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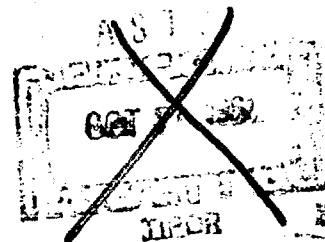
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AWSP 0-15
Vol. II

AIR WEATHER SERVICE PAMPHLET

LIST OF TRANSLATIONS ON METEOROLOGY AND ATMOSPHERIC PHYSICS



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UNITED STATES AIR FORCE

AWS PAMPHLET
No. O-15

AWSP O-15
Vol. II

Headquarters
AIR WEATHER SERVICE (MATS)
Scott Air Force Base, Illinois
30 September 1961

LIST OF TRANSLATIONS ON
METEOROLOGY AND ATMOSPHERIC PHYSICS

PURPOSE: Air Weather Service Pamphlet O-15, Vol. II, "List of Translations on Meteorology and Atmospheric Physics," 1st Supplement, is published for the information of intelligence, scientific, technical, and climatological services activities in AWS units, and of other U.S. military activities concerned. This is a continuation of AWS Bibliography 15, April 1959.

OPT: AWSSS
DISTRIBUTION: X (see page 105)

INTRODUCTION

The scope and other background information about this pamphlet were given in the introduction to AWS Bibliography 15 and will not be repeated here. This volume contains translations which have come to the attention of Headquarters Air Weather Service since April 1959. The meaning of symbols used and the addresses of the various sources cited are as follows:

ASTIA Armed Services Technical Information Agency
Arlington Hall Stn.
Arlington 12 Va

AD (see ASTIA)
ATI (see ASTIA)
AGU (see TAGU)

AIBS American Institute of Biological Sciences
2000 P St., NW
Washington 6 DC

AID Air Information Division
Science and Technology Section
Library of Congress
Washington 25 DC

AIP American Institute of Physics
335 East 45th St.,
New York 17 New York

ATS Associated Technical Services
122 East 55th St.,
New York 22 New York

BMOL British Meteorological Office Library
London Road
Bracknell, Berks
England

CB Consultants Bureau
227 West 17th St.,
New York 11 New York

CSIRO Commonwealth Scientific and Industrial
Research Organization
514 Albert St.
East Melbourne C2
Victoria, Australia

DSIR Dept of Sciences and Industrial Research
Record Section
Charles House
5-11 Regent St.,
London S.W.1, England

30 September 1961

AWSP O-15
Vol. II

DRB Defense Research Board
Dept of National Defense
Ottawa, Canada

DT Dept of Transport
Meteorological Office
315 Bloor St., W
Toronto, Canada

FTT Morris D. Friedman
Foreign Technical Translations
67 Reservoir St.,
Needham Heights 94, Mass

HO Dept of the Navy
Hydrographic Office
Attn: Library
Washington 25 DC

JHU The John Hopkins University
Attn: Library
Baltimore, Md

JPRS (see OTS)

LC Library of Congress
Washington 25 DC

MA Ministry of Aviation
London W.C.2, England

NAS National Academy of Science
National Research Council
Washington 25 DC

NASA National Aeronautics and Space Administration
1512 H Street, NW
Washington 25 DC

NIH National Institutes of Health Library
Dept of Health, Education and Welfare
Bethesda 14, Md

NRC Division Information Service
National Research Council
Ottawa, Canada

NRL Naval Research Laboratory
Attn: Library
Washington 25 DC

OTS Office of Technical Services
(JPRS) Dept of Commerce
Washington 25 DC

30 September 1961

Plenum Press	Plenum Press 277 West 17th St New York 11, New York	USDA	US Dept of Agriculture Attn: Mr. C. M. Purvis Room 5506 14th and Independence Ave NW Washington 25 DC
PP	Pergamon Press 122 East 55th St., New York 22 New York	USWBL	US Weather Bureau Library FOB #4 Suitland, Md
PS	Photoduplication Service Library of Congress Washington 25 DC		
PO	US Patent Office Scientific Library 14th and Constitution Ave., NW Washington 25 DC		
RC	Rand Corporation Attn: Publication Office 1700 Main St., Santa Monica, California		
SLATC	SLA Translation Center John Crerar Library 86 East Randolph St., Chicago 1, Illinois		
SCL	Sandia Corporation Library Los Alamos, New Mexico		
SML	Science Museum Library South Kensington London S. W. 7, England		
TAGU	Transactions of the American Geophysical Union 1515 Massachusetts Ave., Washington 5 DC		
TIC	(Aerospace) Technical Information Center Wright Patterson AFB Ohio		
TILS	Technical Information and Library Service Ministry of Supply Leysdown Rd., Mottingham London S. E. 9, England		
UM	University of Melbourne Melbourne, Australia		
USACRR	US Army Cold Regions Research and Engineering Laboratory Corps of Engineers 1215 Washington Ave., Wilmette, Illinois		

PART ONE

TRANSLATIONS OF ARTICLES IN SERIAL PUBLICATIONS
(BOTH PERIODIC AND NON-PERIODIC)

ABHANDLUNGEN DES METEOROLOGISCHEN DIENSTES DER DEUTSCHEN DEMOKRATISCHEN REPUBLIK

Foitzik, Leohard, "The Contrast Threshold of the Eye With Relation to the Problem of Visibility," Vol. 1, No. 8, 1951. (AD-225340) *

ABHANDLUNGEN DER OSTEUROPA-INSTITUTS DER FREIE UNIVERSITATS BERLIN

Hoffmann, B., "Blood Pressure and Subarctic Climate in the Soviet Union," No. 38, December 1958. (AD-233530) *

ACTA GEOPHYSICA POLONICA

Haman, Krzysztof, "Vietnamese-Polish Aerological Station in Cha-Pa," Vol. VI, No. 3, 1958. * (OTS, Tr. 59-1147)

Michniewski, S., and Kazimierz, S., "Measurements of Atmospheric Electrical Elements at Cha-Pa," Vol. VI, No. 3, 1958. (OTS, Tr. 59-1147)

Stefanicki, Kazimierz, "Vietnamese-Polish Meteorological Station in Cha-Pa," Vol. VI, No. 3, 1958. * (OTS, Tr. 59-1147)

ACTA GEOGRAPHICA SINICA (TI-LI HSUEH-PAO)

Lu Chiung, Wang Min-Wei, "The Climate Types of Floods and Droughts in the Valleys of the Yangtze and the Huai Rivers," Vol. XXI, No. 3, 1955. (OTS, Tr. JPRS 1621-N)

Yang Chieh-Ch'u, and Hsu Shu-Ying, "The Pluvial Regime and the Droughts of the Yellow River Basin," Vol. XXII, No. 4, 1956. (OTS, Tr. JPRS 2572)

Selected Articles, No. 1, February 1959. * (OTS, Tr. JPRS 3093, \$1.00)
Contents:

Chiang Ai-Liang, Excerpt: "The General Characteristics of Temperature Drop in Winter in Southern China."

Keng K'uan-Hung, Abstract: "Sand-Carrying Wind and Drift Sand."

Liu Ch'ang-Ming, Excerpt: "Preliminary Analysis of Hydrographic Characteristics of Interior Drainage Rivers in Kansu."

ACTA METEOROLOGICA SINICA

Synopses of Articles, December 1959. *

[Anon]: "On Blocking in East Asia."

Hsiao-p'ing Chou, and Chen-ch'oa Ku, "The Influence of the Slope of a Plateau on the Movement of Troughs and Ridges."

Yu-hsi Kao, "Indian Summer in Eastern Asia."

AGROKLIMATICHESKIY SPRAVOCHNIK

Lozhkina, A. D., and Trestman, A. G., "Physical Features," 1959. (PS)

AIR, SEA AND LAND TRANSPORTS BULLETIN (Lebanese)

ward, Nicolas, "Meteorology Service in Lebanon," Vol. IX, No. 1, 1960.

AKADEMIIA NAUK SSSR (See: ASTRONOMICHESKII ZHURNAL)

AKADEMIIA NAUK SSSR (See: DOKLADY)

AKADEMIIA NAUK SSSR (See: IZVESTIYA, SERIYA GEOGRAFICHESKAYA I GEOFIZICHESKAYA)

AKADEMIIA NAUK SSSR (See: IZVESTIYA, KRYMSKAYA ASTROFIZICHESKAYA OBSERVATORIYA)

AKADEMIIA NAUK SSSR (See: VESTNIK AKADEMIIA NAUK)

AKADEMIIA NAUK SSSR (See: USPEKHI FIZICHESKIKH NAUK)

AKADEMIIA NAUK SSSR (See: TRUDY GEOFIZICHESKOGO INSTITUTA)

AKADEMIA ATHENON, PRAKTIKA (See: PRAKTIKA)

AKADEMIIA NAUK KAZAKHSKOY SSR, TRUDY SEKTORA ASTROBOTANIKA

Perevertun, M. P., Abstract: "Brightness of Twilight Sky in the Solar Vertical, Taking Into account Secondary Scattering," Vol. 7, 1959. (AD-244966) *

Perevertun, M. P., Abstract: "New Possibilities in the Application of the Twilight Method for the Determination of Temperature in the Stratosphere and Atmosphere," Vol. 7, 1959. (AD-244967) *

AKUST ZHURNAL

Rozenberg, L. D., and Eknadiosyants, O. K., "Kinetics of Ultrasonic Fog Formation," Vol. VI, No. 3, 1960.

ANGEWANDTE METEOROLOGIE

Bochow, H., et al., "The Determination of the Number of Individual Values Necessary for a Representative Mean Value," Vol. III, No. 6, 1958. (OTS, Tr. AEC/SCL7T279)

Boer, W., "A Simple Method for the Determination of Changes of the Wind Vector in the 200 to 300-m Atmosphere Level Above the Ground," Vol. III, No. 6, 1958. (OTS, Tr. AEC/SCL7T274)

Pinter, Laszlo, "Influence of Meteorological Factors on the Harvest Yield of the Most Important Plowed Crops," Vol. III, No. 3, 1958. (OTS, Tr. JPRS 6521)

ANNALEN DER HYDROGRAPHIE UND MARITIMEN METEOROLOGIE

Mosby, H., "Evaporation and Radiation From the Sea," Vol. 64, 1936. (HO, Tr.59)

Schott, G., "Oceanography and Climatology of the Persian Gulf and the Gulf of Oman," Part III, Section 4, 1918. (HO, Tr.347)

ANNALEN DER PHYSIK

Wigand, Albert, "The Vertical Distribution of Condensation Nuclei in the Free Atmosphere," Ser. 4, Vol. 59, No. 16, 1919. (PS)

ANNALES DE L'ASSOCIATION CANADIENNE-FRANCAISE POUR L'AVANCEMENT DES SCIENCES

Demers, P., "Two Radioactive Barometers," Vol. XX, 1954. (UM, Tr.99)

ANNALES DE GEOGRAPHIE (Paris)

[anon]: "Comparisons of Deserts - American and Africa," Vol. 34, 1925. (PS)

ANNALES DE GEOPHYSIQUE

Israel, Hans, "The Atmospheric-Electric Vertical Current," Vol. 10, No. 2, 1954. (PS)

ANNALES DE PHYSIQUE

Le Bot, Jean, "A New Method for Measuring the Complex Dielectric Constant in Centimeter Waves," May/June 1956. *

ANNALES DE LA SOCIÉTÉ ENTOMOLOGIQUE DE FRANCE, PARIS

Berland, Lucien, "Preliminary Results of my Airplane Investigations of the Atmospheric Fauna and Flora," Vol. 104, No. 1, 1935. (PS)

ANNUAIRE HYDROLOGIQUE

Szigyarto, Z., "The Period of Recurrence of Hydrological Phenomena," Vol. 37, No. 4, 1947. (DSIR, Tr. 33612/CT)

AQUA N AGRICULTURE

Indri, E., "Correlation Between Precipitation and Level Loss in the Cellina and Tagliamento Basins," Vol. XXXV, No. 3, 1957. (DSIR, Tr. 33656/CT)

ARCHIV FUER METEOROLOGIE UND GEOPHYSIK UND BIOKLIMATOLOGIE

Baumgartner, A., and Hofmann, G., "Electrical Telemetering of Air and Soil Temperature in a Mountain Forest," Ser. A, Vol. VIII, No. 2, 1957. (CSIRO, Tr. 4155)

Brooks, K., "Water Vapour Gradients Above the Sea and the Roughness of the Sea's Surface," Ser. A, Vol. VIII, No. 4, 1955. *

Burkard, O., "Study of the Worldwide Ionospheric Disturbance of 15 March 1948," Ser. A, Vol. IX, 1949. (DRB, Tr. T90G)

Burkard, O., "Thermal Splitting of the Ionospheric Layers," Ser. A, Vol. II, 1949. (DRB, Tr. T896)

Dirmhirn, Inge, "The wide-Angle Sky Photograph as an Aid in Radiation Research," Ser. B, Vol. VIII, Nos. 3-4, 1958.

Israel, Hans, "Results of Atmospheric-Electric Investigations at Buchau on Federsee. Studies on the Atmospheric Potential Gradient VII," Ser. A, Vol. VII, 1954.

Muhleisen, R., "The Atmospheric Electrical Relationships of the Coastal Aerosol," Pt. I., Ser. A, Vol. 11, 1959. (ATS)

Verzar, F., "Condensation-Nuclei Counter With Automatic Registration," Ser. A., Vol. 5, No. 3, 1953.

ARCHIV FÜR TECHNISCHES MESSEN

Muhleisen, R., and Fischer, H. J., "Radiosondes for Atmospheric-Electric Measurements," No. 274, 1958. (AD-236578) *

ASSOCIAZIONE GEOFISICA ITALIANA, ATTI DEL VII CONVEGNO ANNUALE, 7-9 Nov 1957

Sarrica, O., "A Characteristics Evolution of Radar Echoes Originating From a Thunderstorm," No. 7, 1958.

ASTRONOMISCHE NACHRICHTEN

Halm, J., "Concerning a New Theory for the Explanation of the Periodicity of Solar Phenomena," Vol. 156, Nos. 3723-3724, 1901. (PS)

ASTRONOMICHESTKII SBORNIK

Eygenson, M. S., "Fluctuations in the Level of Lake Victoria and the 5 to 6-Year Cycle of Solar Activity," Vol. 32, No. 2, 1954. (AD-256087) * (OTS, Tr. MCL-53/2)

Eygenson, M. S., "Problem Concerning the Nature of the Solar Cycle," Vol. 32, No. 2, 1954. (AD-256087) * (OTS, Tr. MCL-53/2, \$1.60)

ASTRONOMICHESTKII TSIRKULAR

Astapovich, I. S., "On the Atmospheric Nature of the Zodiacal Light," No. 123, 1952. (AD-206849) * (DRB, Tr. T245R)

Astapovich, I. S., "Eleven Year Variation of Brightness, Form and Sizes of Counter-glow," No. 190, 1958. * (OTS, Tr. 59-11,518)

Fishkova, L. M., and Markova, G. V., "Electrophotometric Observations on Low Altitudes Aurora on 11-12 February 1958 in Abastumant," No. 191, 1958. * (OTS, Tr. JPRS 699-D)

Klyakotko, M. A., "Observation of Solar Flares on the GAISH Spectroheliograph and on Lenin Hills," No. 190, 1958. (OTS, Tr. 59-11,518)

ASTRONOMICHESTKII ZHURNAL

Divari, N. B., "Photometric Study of the Zodiacal Light," Vol. 29, No. 1, 1952. (AD-206849) * (DRB, Tr. T245R)

Divari, N. B., "Variation of Zodiacal Light Brightness Distribution," Vol. 32, No. 1, 1955. (AD-206849) * (DRB, Tr. T245R)

Duboshin, G. N., "On the Stability of Regular Motions of Artificial Celestial Bodies," Vol. 36, No. 4, Jul/Aug 1959. (OTS, Tr. PB 131632-94)

Fesenkov, V. G., "On the Existence of Elliptical Polarization of the Light of the Day Sky," Vol. 37, No. 5, Sep/Oct 1960. * (AID, Tr. 61-11)

Fesenkov, V. G., "The Zodiacal Light and the Exterior Atmosphere of the Earth," Vol. 26, No. 6, 1949. (AD-206849) * (DRB, Tr. T245R)

Gershman, B. N., and Ginzburg, V. L., "The Influence of the Magnetic Field on the Convective Instability in the Atmospheres of Stars and in the Earth's Ionosphere," Vol. 32, No. 5, 1955. * (TIC, Tr. F-TS-9604/V)

Gopasyuk, S. I., Summary: "The Magnetic Field and Spot Groups in Connection With Solar Flares," Vol. 38, No. 2, 1961. *

ASTRONOMICHESKII ZHURNAL (Cont'd)

- Kardov, M. G., "Research on the Spectral Characteristics of the Zodiacal Light," Vol. 27, No. 2, 1950. (AD-206849) * (DRB, Tr. T245R)
- Kozik, S. M., "The General Form of the Eleven-Year Cycle of Sunspot Forming Activity of the Sun," Vol. 26, No. 1, 1949. * (TIC, Tr. F-TS-9594/V)
- Sharonov, V. V., "The Role of True Absorption in the Atmosphere of Mars," Vol. 34, No. 4, 1957. (RC, Tr. T-111, 9037458)
- Shklovskii, I. S., et al., "An Artificial Comet," Vol. 36, No. 6, 1959. (AD-252318)*
- Shklovskiy, I. S., et al., "The Nature of the Third Radiation Belt of the Earth," Vol. 37, No. 5, 1960.
- Stepanov, V. Ye., "A New Regularity in the Origin of Sunspots," Vol. 25, No. 4, 1948.* (TIC, Tr. F-TS-9593/V)
- Tatarskii, V. I., et al., "The Influence of Meteorological Conditions on the Intensity of Light Scintillation Near the Earth's Surface," No. 35, 1958. (AIP)

ATOMKERNENERGIE

- Gerlach, W., et al., "Investigations on the Radioactivity of Atmospheric Precipitation and the Activity of the Air," Vol. III, 1958. (OTS, Tr. AEC/IGRL-T/W-94)

ATOMPRAXIS

- Buchner, W., "Continuous Measurement of the Radioactive Aerosol Content of the Air," Vol. III, 1957. (OTS, Tr. AEC-3969)

ATTI DELLA ACCADEMIA DELLE SCIENZE DI TORINO

- Cicala, Placido, "Optimum Airplane Flight Paths," Vol. 89, May 1955. (AD-227681) * (NASA, Tr. TTF-4)
- Cicala, Placido, "Piecemeal Solutions in the Programming of Optimal Flight Trajectories," Vol. 90, June 1956. (AD-227007) * (NASA, Tr. TTF-3)

BEITRÄGE ZUR PHYSIK DER FREIEN ATMOSPHERE

Anon7: "The Design Principles of Instruments for Monitoring Radioactivity and Details of the Monitoring Network of the German Meteorological Service," Vol. 30, 1958. (OTS, Tr. AEC/TT-777)

Christians, H., "The Dynamics of Cumulus Clouds," Vol. 22, No. 3, 1935. (AD-236566) *

Hollmann, G., "Curvature - and Shearing-Vorticity Equation: The Direction-and Speed-Divergence Equation," Vol. 30, No. 4, 1958. (USWBL)

Israel, Hans, "Natural Radioactivity in Ground, Water, and Air," Vol. 30, 1958. (SLATC, Tr. SLA 58-1959)

Knoll, K. H., et al., "Cloud Series Photographs IV - A Symmetrical Cumulonimbus," Vol. 32, Nos. 1/2, 1959. (AD-253550) *

Kopp, W., "Aerology of Some Cloud Forms and Wave Systems in the Atmosphere," Vol. 13, No. 3, 1927.

Schulz, H., "Evaluating Cloud Photograms Using Electronic Computers," Vol. 32, Nos. 1/2, 1959. (AD-253551) *

Schumann, G., "Methods of Measuring the Artificial Radio-Activity in the Atmosphere," Vol. 30, 1958. (OTS, Tr. AEC/NP-146)

Sittkus, A., "Observations of Radioactive Clouds From Atomic Tests in Relation to Atmospheric Transport and Exchange Problems," Vol. 30, 1958. (OTS, Tr. AEC/TT-776)

Stölve, G., and Mägge, R., "Energetics of the Weather," Vol. 22, 1935. * (USWBL)

BERICHTE DES DEUTSCHEN WETTERDIENSTES IN DER U.S.-ZONE

Faust, H., "Monthly Averages of Air Atmospheric Temperature on the Ground and at Altitudes of 850, 700 and 500 mb, in the Case of Rectilinear Straight North and South Current," No. 42, 1952.

BERICHTE DES DEUTSCHEN WETTERDIENSTES

Flohn, Hermann, "The Indian Summer Monsoon as Part of the Planetary Circulation of the Atmosphere," Vol. 4, No. 22, 1956. (AD-220623) *

Flohn, Hermann, "Remarks on the Problem of Nomenclature of the Atmosphere," Vol. 4, No. 22, 1956. (PS)

BILDMESSUNG UND LUFTBILDWESEN

Neumann, Heinz-Günter, "Photogrammetric Cloud Measurement," No. 2, 1958. (PS)

BOLETIM CULTURAL DA GUINEA PORTUGUESA

Guimaraes, C., "The Climate in Portuguese Guinea," No. 55, 1959.

BULLETIN D' INFORMATIONS SCIENTIFIQUES ET TECHNIQUES

Delibrias, G., and Jehanno, C., "Activity of the Atmosphere Due to Krypton 85,"
No. 30, 1959. *

BULLETIN DE L'OBSERVATOIRE DE PUY DE DOME

Dessens, H., "Attempt at Artificial Formation of Cumulus Clouds by Exclusive Use of
Solar Energy," No. 4, 1956. (NIH, Tr. 11-45)

BULLETIN DE LA SOCIÉTÉ BELGE D'ASTRONOMIE DE MÉTÉOROLOGIE ET DE PHYSIQUE DU GLOBE

Malet, L. M., "Technique and Problems of Aerological Soundings," Vol. 70, No. 2,
Jan/Feb 1954. *

BULETIN STIINTIFIC, SECTIA DE GEOLOGIE SI GEOGRAFIE, ACADEMIA REPUBLICII POPULARE
ROMINE (Bucharest)

Mihailescu, V., "A Sketch of the Local Climate Map of the RPR," Vol. II, Nos. 3/4,
1957. (OTS, Tr. JPRS L-1452-D)

BYULLETIN' IZOBRETIENIY MOZKVA

Danilin, A. I., et al., Summary: "An Automatic Radio-Meteorological Station," No.3,
1959. * (LC)

Zlatin, A. L., et al., Abstract: "Measuring Devices and Instruments," No. 23, 1959.
(OTS, Tr. PB 131632-)

BYULLETIN' MEZHDUVEDOMSTVENNOI OKEANOGRAFICHESKOI KOMISSIIPRI PREZIDIUME AN SSSR

Dementyeva, T. F., "A Brief Review of the Work of the 44th Session of International
Committee on the Study of Seas," No. 1, 1958. * (HO, Tr. 60)

Sysoyev, N. N., "The Methodic Conference on Oceanology," No. 1, 1958. * (HO, Tr. 60)

Zenkevich, L. A., "Institute of Oceanology of the Academy of Sciences USSR," No. 1,
1958. * (HO, Tr. 60)

Zenkevich, L. A., "The Work of the Oceanographic Commission During 1951-1956,"
No. 1, 1958. * (HO, Tr. 60)

BYULLETEN' NAUCHNO-TEKH INFORMATSII PO AGRONOMICHESKOI FIZIKI

Chudnovskiy, A. F., "Scheme of Calculating the Temperatures in Soil According to a Given Weather Forecast," No. 1, 1956. (OTS, Tr. JPRS L-641-N)

Yoffe, I. A., "Computation of Certain Elements of the Heat Regime of Warm Soil," No. 3, 1957. (OTS, Tr. JPRS L-670-N)

BYULLETEN' OKEANOGRAFICHESKOI KOMISSII

Laktionov, A. F., and Shamot'yev, V. A., "Use of Airplanes for Oceanographic Research in the Arctic," No. 2, 1958. (AD-245761) (OTS, Tr. 60-11,174)

BYULLETEN' SOVETA PO SEYSMOLOGII

Brekhovskikh, L. M., "On the Tsunami and Observations of Super Long Range Propagation of Sound in the Ocean," No. 2, 1956. (OTS, Tr. JPRS L-677-N)

BYULLETEN' STANTSII OPTICHESKOGO NABLYUDENIYA ISKUSSTVENNYKH SPUTNIKOV ZEMLII

Bugoslavskaya, Ye. Ya., "Special Satellite Plate Holder ('Sp.K')," No. 7, 1959. * (NASA, Tr. TTF-19)

Gimmel'farb, B. N., and Artemova, V. A., "Concerning Observations of Changes in the Brightness of the Rocket Carries of the Third Artificial Earth Satellite," No. 7, 1959. * (NASA, Tr. TTF-19)

Grigorevskiy, V. M., "Methods Used in the Photometry of Artificial Earth Satellites," No. 7, 1959. * (NASA, Tr. TTF-19)

Latypov, A. A., et al., "Results of Photographic Observations of Artificial Earth Satellites," No. 7, 1959. (NASA, Tr. TTF-19)

Lur'ye, M. A., and Tol'skaya, V. A., "Graphic Method Computing Visibility Conditions of the American Satellite 1958," No. 1, 1958. * (OTS, Tr. 59-11,665, \$1.75)

Nabokov, M. Ye., "Method for Rapid Calculation of Visibility of Artificial Earth Satellites (AES)," No. 1, 1958. * (OTS, Tr. JPRS 773-D)

Poroshin, F. M., "A Method for Photographing the Rocket Carrier of the Third Artificial Earth Satellite by Means of Narrow Film (35mm) Cameras," No. 7, 1959.* (NASA, Tr. TTF-19)

Tol'skaya, V. A., "Conference of the Chiefs of Stations for Visual Observations of Artificial Earth Satellites," No. 7, 1959. * (NASA, Tr. TTF-19)

Tsesevich, V. P., "Changes in the Brightness of the Rocket Carrier," No. 7, 1959. * (NASA, Tr. TTF-19)

Tsesevich, V. P., "The Rotation Period of the Rocket Carrier of the Third Soviet Artificial Satellite," No. 7, 1959. * (NASA, Tr. TTF-19)

Yaroshevich, S. V., "Compter Operating With the AT-1 Telescope," No. 7, 1959. * (NASA, Tr. TTF-19)

BYULLETEN VSESOUZNOE ASTRONOMO-GEODEZICHESKOE OBSHCHESTVO USSR

Selected Articles, 1957. * (OTS, Tr. 60-11,456)

Contents:

- Bakharev, A. M., "Observations of the Solar Eclipse on 30 June 1954 in Tadzhikistan."
- Dagayev, M. M., "Meteorological Observations at Chernobyl on 30 June 1954."
- Feklushin, V. A., "Observations of the Passage of Radiowaves During the Total Solar Eclipse on 30 June 1954."
- Fomenko, B. D., "Meteorological Observations During the Solar Eclipse of 30 June 1954."
- Gulak, Yu. K., and Bezkosty, I. D., "Observations of the Solar Eclipse on 30 June 1954."
- Kunichev, L. A., "The Course of Solar Radiation at Sochi During the Eclipse on 30 June 1954."
- Neprokin, V. I., "The Course of Meteorological Elements During the Solar Eclipse on 30 June 1954."
- Senakin, N. K., "Actinometric Observations During the Solar Eclipse on 25 February 1952."
- Temnikova, N. S., "Meteorological Conditions During the Solar Eclipse on 30 June 1954 in the Latvian SSR."

Selected Articles, No. 15, 1954. (AD-257650) (ATIC, Tr. MCL-54) (OTS, Price \$3.60)

Contents:

- "An Experiment in Determining the Distribution of the Brightness on the Solar Disc From Observations of a Partial Solar Eclipse."
- "Some Peculiarity in the Cyclic Activities of the Sun."

CANADIAN JOURNAL OF PHYSICS

Demers, P., "The Levelling of Constant Height Balloons (Aerostats) at High Altitude," Vol. 31, 1953. (UM, Tr. 101)

CHIKYŪ BUTSURI

Hasegawa, Mankichi, "Fast Response Collector for Observation of Atmospheric Electricity," Vol. 4, No. 3, 1960.

CH'I-HSIANG HSUEH-PAO

[Anon]: "An Analysis of Summer Rainfall Intensity in China," Vol. 26, No. 4, 1955.

[Anon]: "A Brief Report on Artificial Rainfall Experimental in Kansu (Aug-Oct 1958)," Vol. 30, No. 1, 1959. *(OTS, Tr. JPRS 7324)

[Anon]: "A Report on Experience of Rain-Making With Silver Iodide in the Area of Hsiao-wo-t'ai Mountains," Vol. 30, No. 1, 1959. *(OTS, Tr. JPRS 7324)

[Anon]: "A Report on Experience in Artificial Rain Making in Kirin," Vol. 30, No. 1, 1959. *(OTS, Tr. JPRS 7324)

[Anon]: "A Summary of Experience Concerning Forecasting and Elimination of Hail in Ho-ch'ing Hsien, Yunnan Province," Vol. 30, No. 1, 1959. *(OTS, Tr. JPRS 7324)

Chang Chia-Ch'eng, "Problems Concerning Characteristics of China's Monsoon," Vol. 30, No. 1, 1959. *(OTS, Tr. JPRS 7324)

Chao Chiu-Chang, "Development of Meteorological Research in China in the Past Decade," Vol. 30, No. 3, 1959. * (OTS, Tr. 60-11,524, Price \$0.50)

Ch'eng Shun-Shu, "China's Experiments in Artificial Precipitation," Vol. 30, No. 3, 1959. * (OTS, Tr. 60-11,450)

Ch'eng Sun Shu, "Communist China's Progress in Meteorological Observation Techniques and Instruments Research in the Past Decade," Vol. 30, No. 3, 1959. * (OTS, Tr. JPRS 2563)

Chu Kang-K'un, "Study of the Evaporation Distribution in Communist China; The Application of Meteorological Records in Economic Construction," Vol. 26, Nos. 1/2, June 1955. (OTS, Tr. JPRS 6232)

Hsieh Kuang-Tai, et al., "Meteorological Education in the Past Decade," Vol. 30, No. 3, 1959. * (OTS, Tr. 60-11,490)

Hsueh i-Ping, "Chinese Studies on Precipitation During the Past Decade," Vol. 30, No. 3, 1959. * (OTS, Tr. 60-11,449)

Hsu Erh-Hao, "Communist China's Researches in Dynamic Meteorology in the Past Decade," Vol. 30, No. 3, 1959. * (OTS, Tr. 60-11,471)

Ku Chen-Ch'ao, "Communist China's Achievements in Numerical Weather Forecasting," Vol. 30, No. 3, 1959. * (OTS, Tr. 60-11,469, Price \$0.75)

CH'I-HSIANG HSUEH-PAO (Cont'd)

Lu Ho and Wang Pen-Fei, "Development of Meteorological Services in China in the Past Decade," Vol. 30, No. 3, 1959. * (OTS, Tr. 60-11,451)

Yang Chien-Chu, "Communist China's Research on Long-Range Weather Forecasting During the Past Decade," Vol. 30, No. 3, 1959. * (OTS, Tr. 60-11,565)

Yang Chien-Chu, et al., "The Influence of Tibetan Plateau Upon the Northern Pressure Systems," Vol. 30, No. 1, 1959. (OTS, Tr. JPRS 7324)

Yeh Tu-Cheng, and Hsieh Kuang-Tao, "Development of Research on Atmospheric Circulation in our Country in the Past Ten Years," Vol. 30, No. 3, 1959. * (OTS, Tr. 60-11, 630)

CHŪO KISHŌDAI KENKYŪ JIHŌ (Japan)

Ando, T., "On the Relation Between Intensity and Velocity of Typhoons," Vol. 4, No. 1, 1951. *

Imai, I., et al., "On the Radar Reflectivity and the Drop-Size Distribution of Rain," Vol. 7, No. 7, 1955.

1 Mikawa, G., "Temperature Adjustment of a Certain Kind of Radiosonde," Vol. 9, No. 9, 1957. (OTS, Tr. AEC/SCL-T-231)

[Japan]: "Report on Radar Observations During the Summer of 1954," Vol. 7, No. 7, 1955.

Kodaira, Nobuhiko, "Radar Rainfall Measurement," Vol. 7, No. 7, 1955.

Koshizo, Shimakawa, "Observation of Atmospherics Associated With Thunderstorms and Its Application to Weather Forecasting," Vol. 9, 1957. (OTS, Tr. AEC/SCL-T-250)

Kusano, K., et al., "A Practical Technique of Forecasting Orographic Precipitation," Vol. 9, No. 11, 1957. (OTS, Tr. AEC/SCL-T-241)

Tosha, M., "On the Super-Refraction of Microwaves in Kantō District," Vol. 7, No. 7, 1955.

Yoshihara, Zenji, "Radar Observations of Rainfall Intensities, Using a Recording System," Vol. 7, No. 7, 1955.

CHUNG-KUO SHUI-LI

Selected Articles, No. 8, 1958. * (OTS, Tr. JPES 586-D)
Contents:

"Reports on Rainfall and Water Control."

"Provincial Reports on Rainfall and Water Control."

"Report on the River and Watercourses Network in Anhwei Province," by
Chang Tsu-yin.

COMPTES RENDUS DE L'ACADEMIE DES SCIENCES (Paris)

Barbier, E., et al., "Use of Eclipses of the Moon to Study the Upper Atmosphere,"
Vol. 214, 1942. (UM, Tr. 94)

Ishtiaq, and Vassy, A., "Vertical Distribution of the Atmospheric Ozone," Vol. 248,
1959. * (Navy 2249/NRL 724)

Mironovitch, Valery, "Meteorology — Mean Isobaric Seasonal Maps in the Southern
Hemisphere," Vol. 226, No. 6, 1953.

Pauling, L., et al., "Some Data on the Nature and Properties of Radioactive
Fallout Resulting From Atomic Explosions Since 1945," Vol. 249, 1959.
(OTS, Tr. AEC-3886)

Rasool, Ishtiaq, and Vassy, A., "Vertical Distribution of the Atmospheric Ozone,"
Vol. 248, 1959. * (Navy 2249/NRL 724)

Vigroux, E., "Photometry of an Eclipse of the Moon Ozone Distribution," Vol. 239,
1954. (UM, Tr. 96)

COMPTES RENDUS DES TROISIEMES JOURNEES DE L'HYDRAULIQUE (Algiers)

Grisollet, H., and Johansen, R., "Investigation of the Correlation Between the
Maximum Rate of Fall During Rainstorms in the Paris Region and the Total
Rainfall," April 1954. (DSIR, Tr. 34001/CT)

DAGENS NYHETER

[Anon]: "Russian Dams Can Make Sweden Warmer," 23 July 1959. *

DEUTSCHE HYDROGRAPHISCHE ZEITSCHRIFT

Neumann, Gerhard, "Oscillations of Stability and the Internal Thermal Agitation in the Sea and in the Atmosphere," Vol. 2, Nos. 1/2/3, 1949.

Thiel, G., "Influence of Atmospheric and Wind Pressure on the Water Level of the Baltic Sea," Vol. 6, No. 3, 1955. (SLATC, Tr. 2233)

Walden, Hans, and Juergen, Piast, "Further Considerations Concerning the Question of Ocean Wave Spectra in the Wind-Generated Sea," Vol. 11, No. 1, 1958. (Navy 1905/HO-39)

DIE TECHNIK

Philipps, H., "The Cooperation of the German Democratic Republic in the International Geophysical Year," No. 10, 1959. *

DIE UMSCHAU (WISSENSCHAFT UND TECHNIK)

Loewe, Fritz, "Exploration of 'Inland Ice' Greenland and Antarctica," No. 4, 1956. * (USACRR, Tr. 58)

Nauer, H., "How Does a Ball Lightning Originate?" Vol. 56, 1956. (OTS, Tr. AEC/SCL-T-246)

DOKLADY AKADEMII NAUK SSSR (C. R. ACAD. SCI. URSS; BULL. ACAD. SCI USSR)

Al'pert, L. Ya., et al., Abstract: "On the Results of Determining the Electron Concentration of the External Regions of the Ionosphere From the Observations of the Radio Signals of the First Artificial Satellite," Vol. 120, No. 4, 1958. * (DRB, Tr. T306R)

Antsilevich, M. G., and Shevnin, A. D., "On Geomagnetic Observations With the Aid of the First Soviet Space Rocket," Vol. 135, No. 2, 1960.

Arabadzhi, V. I., "On the Electric Properties of Thunderstorm Precipitates," Vol. 127, No. 2, 1959. *

Astapenko, P. D., "On the Wind of Temperature Regime in the Lower Stratosphere Over the Antarctic," Vol. 131, No. 3, 1960. (OTS, Tr. PB 131632-122)

Bakhvalov, N. S., "Some Remarks on the Problem of the Numerical Integration of Differential Equations by Finite Difference Methods," Vol. 106, No. 6, 1955. (USWBL)

Bibilashvili, N. Sh., et al., "Liquid Water Content of Shower Clouds and Some Problems of Shower Precipitation Forecasts," Vol. 131, No. 3, 1960. (OTS, Tr. PB 131632-122)

DOKLADY AKADEMIIA NAUK (C. R. ACAD. SCI. URSS; BULL. ACAD. SCI. USSR) (Cont'd)

- Blinova, Ye. N., "The Hydrodynamic Prognosis of the Mean Monthly Temperature Anomalies for the Northern Hemisphere of the Earth Using IGY Data," Vol. 131, No. 2, 1960. (OTS)
- Blinova, Ye. N., "On the Problem of Determining the Sea-Level Pressure," Vol. 92, No. 3, 1953. * (OTS, Tr. 60-41093)
- Boiko, P. N., et al., "Photoelectric Measurements of the Indicatrices of Scattering in the Ground Atmospheric Layer," Vol. 124, No. 4, 1959. * (Navy 2330/NRL 744)
- Divari, V. B., "Changes in the Color of the Twilight Sky," Vol. 122, No. 5, 1958. * (OTS, Tr. PB 131632-56)
- Divari, N. B., "Polarization of the Night Sky Light in the Zenith," Vol. 112, 1957. (AD-207089) * (DRB, Tr. T301R)
- Dokuchayev, V. P., "Electrical Discharge During the Flight of Meteors in the Earth's Atmosphere," Vol. 131, No. 1, 1960. (OTS, Tr. JPRS 3720)
- Drogaitsev, D. A., "Prediction of Precipitation in the Virgin Lands of Western Siberia and Kazakhstan," Vol. 117, No. 2, 1957. (CB)
- Dukhin, S. S., and Deryagin, B. V., "Theory of the Interaction of Evaporating of Growing Drops at Long Distances," Vol. 112, No. 3, 1957. (ATS, Tr. RJ-1332, Price \$6.60, extra copies \$1.25)
- Fedorov, K. N., "Annual and Semiannual Fluctuations in General Oceanic Circulation," Vol. 116, No. 31, 1957. (CB)
- Fedorov, E. K., "Electric Charges on Precipitation Particles," Vol. 78, No. 6, 1956. (ATS, Tr. RJ-1327, Price \$6.35, extra copies \$1.75)
- Fel'zenbaum, A. I., "Compression and Refraction of Ice in the Arctic Basin," Vol. 116, No. 2, 1957. (AD-204648) * (DRB, Tr. T271R)
- Fesenkova, V. G., "The Question of the Existence of Vegetation of Mars," Vol. 94, No. 2, 1954. * (TIC, Tr. F-TS-8562/III)
- Gershman, B. N., and Ginzburg, V. L., "Mechanism of the Occurrence of Ionospheric Discontinuities," Vol. 100, No. 4, 1955. (AD-137539) *
- Gringauz, K. I., and Rytov, S. M., "On the Connection Between the Results of Measurements by Means of Charged Particle Traps on the Soviet Space Rockets, and Measurements on the Magnetic Field on the American 'Explorer VI' Satellite and the 'Pioneer V' Rocket," Vol. 335, No. 1, 1960.
- Gringauz, K. I., et al., "Ionized Gas and High-Speed Electrons in the Vicinity of the Earth and in Interplanetary Space," Vol. 132, No. 5, 1960. * (OTS, Tr. JPRS 5346)

DOKLADY AKADEMIIA NAUK SSSR (C. R. ACAD. SCI. URSS; BULL. ACAD. SCI. USSR) (Cont'd)

- Gringauz, K. I., and Rudakov, V. A., "Measurement of the Electron Concentration in the Ionosphere From the Rotation of the Plane of Polarization of Radio-Waves Emitted by a Rocket," Vol. 132, No. 6, 1960. *
- Gringauz, K. I., et al., "Study of Interplanetary Ionized Gas, High-Energy Electrons and the Corpuscular Radiation of the Sun by Use of Three-Electrode Traps for Charged Particles Carried Aboard the Second Soviet Cosmic Rocket," Vol. 131, No. 6, 1960. * (OTS, Tr. PB 131632-123)
- Gurvich, A. S., et al., "An Experimental Research on the Statistical Characteristics of Scintillation of a Light-Source at Ground Level," Vol. 123, No. 4, 1958. * (DRB, Tr. T326R)
- Gusev, A. M., and Rusin, N. P., "Meteorology of an Interior Region of Eastern Antarctica According to Observations at the Pionerskaya Station," Vol. 117, No. 1, 1957. (CB)
- Gusev, A. M., "The Theoretical Scheme of Air Circulation Over Antarctica," Vol. 120, No. 2, 1958. (CB)
- Imshennik, V. S., "The Isothermal Dispersion of a Gas Cloud," Vol. 131, No. 6, 1960. (OTS, Tr. JPRS 5049)
- Imyanitov, I. M., and Chubarina, Ye. V., "The Structure of the Electrostatic Field in the Free Atmosphere According the Data of Investigations During the International Geophysical Year," Vol. 132, No. 1, 1960 * (OTS, Tr. PB 131632-123)
- Istomin, V. G., "Some Results of the Measurement of the Spectrum Mass of Positive Ions by the 3rd Artificial Earth Satellite," Vol. 129, No. 1, 1959. (AD-235413) * (NASA, Tr. TTF-7)
- Ivanov-Kholodnyy, G. S., Summary: "Ionization in the Ionosphere and the Energy of Short-Wave Ultraviolet Solar Radiation," Vol. 137, No. 2, 1961. *
- Izotova, A. F., et al., "Wind Profile in the Near-Water Layer Over Lake Ladoga," Vol. 136, No. 3, 1960. (OTS, Tr. JPRS 8179)
- Kamenkovich, V. M., "Certain Simplifications of the Dynamic Equations of Established Currents in a Baroclinical Sea," Vol. 119, No. 6, 1958. (CB)
- Karol, I. L., "The Effect of Turbulent Diffusion in the Direction of the Wind on the Distribution of the Concentration of a Substance Diffusing in the Atmosphere," Vol. 131, No. 6, 1960. (ATS, Tr. RJ-2860, Price \$10.00, extra copies \$1.35)
- Kolmogorov, A. N., "The Break-Up of Droplets in a Turbulent Stream," Vol. 66, No. 5, 1949. (DRB, Tr. X-R-75)
- Konstantinova-Schlesinger, M., "The Determination of Atmospheric Ozone at Altitudes of 13 and 14 Kilometers," Vol. 18, 1938. (UM, Tr. 100)
- Kovalev, A. A., "On Chandrasekhar's Spectral Representation of Axially Symmetric Turbulence," Vol. 120, No. 6, 1958. (AIP, request Doklady Vol. III, No. 3)

DOKLADY AKADEMIIA NAUK SSSR (C. R. ACAD. SCI. URSS; BULL. ACAD. SCI. USSR) (Cont'd)

Laktionov, A. G., "On Determining the Coefficients Vertical Intermixing of Particles in Free Atmosphere," Vol. 133, No. 4, 1960. (AD-245714) *

Lavrov, V. V., "The Nature of the Scale Effect in Ice and the Strength of the Ice Sheet," Vol. 122, No. 4, 1958. (AIP, request Doklady Vol. III, No. 5)

Lineykin, P. S., "On Steady Wind Currents and Density Distribution in Deep Seas," Vol. 116, No. 3, 1957. (CB)

Lisitsyn, A. P., et al., "New Data on the Thickness and Bedding of the Porous Deposits of the Northwestern Pacific Ocean," Vol. 115, No. 6, 1957. (AD-253564) *

Megrelishvili, T. G., "Twilight Sky Luminescence in the Infrared Region of the Spectrum," Vol. 116, 1957. (AD-204646) * (DRB, Tr. T272R)

Milin, V. B., "About the Anomalous Electric Fields in the Atmosphere," Vol. 95, No. 5, 1954. *

Monin, A. S., "On Lagrangian Characteristics of Turbulence," Vol. 134, No. 2, 1960. (OTS, Tr. JPRS 7358)

Mulyarchik, T. M., "Interferometer Measurement of the Widths of λ_{6300}° (OI) and $\lambda_{5198-5200}$ (NI) Emission in Auroras," Vol. 130, No. 2, 1960. (OTS, Tr. JPRS 3352)

Mustel, E. R., and Severnyy, A. B., "Study of the Spectra of a Large Chromospheric Flare on the Sun," Vol. 80, No. 6, 1951. *

Nikol'skiy, A. P., "On the Possible Causes of Irregular Motions of Ionization Clouds Connected With Auroras," Vol. 132, No. 2, 1960. (OTS, Tr. JPRS 9063)

Ol, A. I., "Contribution to the Question of the 22-Year Cycle of Solar Activity," Vol. 63, No. 6, 1948. *

Ozmidov, R. V., "The Calculation of a Turbulent Horizontal Diffusion of Admixture Spots in a Sea," Vol. 120, No. 4, 1958. (OTS, Tr. JPRS L-67-N)

Podol'skiy, A. S., "A New Method for Phenological Prognosis and Agroclimatic Appraisal Using the Heat Factor," Vol. 121, No. 6, 1958. (AIBS)

Prikhorov, P. S. et al., "The Effect of the Saturation Deficit Upon the Coagulation Rate of Water Aerosols," Vol. 81, No. 4, 1951. (ATS, Tr. RJ-1328, Price \$7.25, extra copies \$1.75)

Pyaskovskaya, Ye. V., and Fesekov, "Some Data on the Polarization of Atmospheric Light," Vol. 131, No. 2, 1960. * (OTS, Tr. PB 131632-118)

Rodionov, S. F., and Sholokhova, Ye. D., "Study of Sky Brightness in the Region Around 1_{μ} During the Solar Eclipse of June 30, 1954," Vol. 105, No. 4, 1955. (AD-204647) * (DRB, Tr. T274R)

DOKLADY AKADEMIIA NAUK SSSR (C. R. ACAD. SCI. URSS; BULL. ACAD. SCI. USSR) (Cont'd)

Sholokhova, Ye. D., and Frish, M. S., "Twilight Sky Luminescence in the 1-Micron Region," Vol. 105, No. 6, 1955. (AD-204005) * (DRB, Tr. T273R)

Tikhov, G. A., "The Spectrum of the Zodiacal Light," Vol. 73, No. 1, 1950. (AD-206849) * (DRB, Tr. T245B)

USSR, "Meteorology," Vol. 132, No. 2, 1960. (OTS, Tr. PB 131632-125)

Vernov, S. N., et al., "Study of the Terrestrial Corpuscular Radiation and of Cosmic Rays During the Flight of the Space Rocket," Vol. 125, No. 2, 1959. *

Vitkevich, V. V., et al., "Radio Astronomical Observations of the Second Soviet Interplanetary Rocket," Vol. 132, 1960. (AD-257702) (TIC, Tr. MCL-738) (OTS, Price \$1.10)

Voronkov, P. P., "Some Regularities in the Formation of the Chemical Composition of Atmospheric Precipitation," Vol. 98, No. 5, 1954. (SLATC, Price \$1.80)

Vul'fson, N. I., "A Method of Studying Compensation Downdrafts Near Developing Cumulus Clouds," Vol. 112, No. 4, 1957. (ATS, Tr. RJ-1050, Price \$5.80, extra copies \$1.35)

EDIGENOSISCHE TECHNISCHE HOCHSCHULE, INSTITUT FÜR AERODYNAMIK, MITTEILUNGEN

Ackeret, Jakob, "On the Temperature Distribution Behind Cylinders in a Flow," No. 21, 1954. * (NASA, Tr. TTF-2)

EISZEITALTER UND GEGENWART

Büdel, Julius, "Climatic Zones of the Pleistocene," No. 1, 1951. (SLATC, Tr. 57-3212)

EKONOMICHESKAYA GAZETA

[Anon]: "Report on Soviet Offshore Meteorological Station in Caspian Sea," 4 September 1960. * (OTS, Tr. PB 131632-140)

Loktionov, Ye., "Sound Measurement of the Temperature of the Atmosphere," 17 June 1960. *

ELEKTRICHESTVO

Burgsdorf, V. V., "Wind Pressure on Overhead Transmission Line Conductors," No. 6, 1957. (PP)

ERGEBNISSE DER EXAKTEN NATURWISSENSCHAFTEN

Knacke, O., and Stranski, I. N., "Theory of Crystal Growth," Vol. 26, 1952.

FIZIKAI SZEMLE

Bela Bell, "The Development of Aerology in Hungary and the Gyorgy Marczell Aerological Observatory," Vol. X, No. 6, 1960. (OTS, Tr. JPRS 6317)

FOLDRAJZI KOZLEMENYEK

Aujesky, Laszlo, "Geographic Aspects of Modern Weather Forecasting," Vol. VIII, No. 4, 1960. (OTS, Tr. JPRS 4639)

FORSCHUNG

Schmidt, E., and Eckert, E., "On Directional Distribution of Heat Radiation From Surfaces," Vol. VI, No. 4, Jul/Aug 1935. *

GEODEZIYA I KARTOGRAFIYA

Uspenskiy, M. S., "The Construction of Monuments for Regions of Propagation of Perennial Frost," No. 8, 1958. * (TIC, Tr. MGL-163/Y)

GEOFISICA PURA E APPLICATA

Gotsch, G., "Applicability of Kohler's Equilibrium Curves to Solution Droplets," Vol. 42, No. 1, 1959. (CSIRO, Tr. 4652)

Wegener, K., "Brief Survey of the Central Problems of Solar Radiation," Vol. 43, 1959. (CSIRO, Tr. 4833)

GEOFIZIKALNI SBORNIK

Gregor, Z., and Krivsky, L., "Long-Period Fluctuations of the Circulation in the Atlantic-European Region and Their Relation to Secular Solar Activity," No. 62, 1957. (AD-210368) *

GEOGRAFICKY CASOPIS

Bucko, S., "First Conference on Meteorology and Climatology of the Carpathian Region," No. 1, 1960. (OTS, Tr. JPRS 5726)

GEOGRAFIYA V SHKOLE

USSR, "Tropical Cyclones," Jul/Aug 1960. *

Zhakov, S. I., and Fedorova, Ye. Ya., "The Teaching of Climatological Subjects in the Course in the Geography of the USSR," No. 5, 1960.

"
GERLANDS BEITRAGE ZUR GEOPHYSIK

Diem, Max, "Soil Aeration — Measuring Technology and Results," Vol. 51, 1937.
(OTS, Tr. AEC-3795)

GIGIYENA I SANITARIYA

Alekseyeva, M. V., and Yelfimova, Ye. V., "Separate Determination of Chloride and Hydrochloric Acid Aerosols in Air," No. 8, 1958. (OTS, Tr. JPRS L-751-N)

Gusarov, I. I., "Results of the Study of the Natural Radioactivity of the Air," Vol. 25, No. 2, 1960. (OTS, Tr. JPRS 5027)

Lebedev, N. A., and Perov, B. A., "The Use of a Dosimeter for Measuring Solar Ultraviolet Radiation," No. 2, 1959. (OTS, Tr. JPRS L-1784-D)

Novikov, Yu. V., and Godovich, M. L., "New Instruments for the Sampling of Atmospheric Air for Radioactivity," No. 11, 1960. (OTS, Tr. JPRS 9084)

GORODSKOE KHOZIAISTVO MOSKVI

Chelnokov, S. S., "Present Methods of Preparing Frozen Ground for Excavation," Vol. 27, No. 12, 1953. * (USACRR, Tr. 64)

GOSPODARKA WODNA

[Anon]: "Characteristics of Floods in Poland," No. 9, 1957.

Majewski, A., "Activities of the Department of Oceanography of the State Institute of Hydrology and Meteorology in Gdynia," Vol. 19, No. 7, 1959. *(OTS, Tr. 60-31,183, Price \$0.50)

GRAZHDANSKAIA AVIATSIIA

Baranov, A., "In the Tropopause Zone," Vol. 15, No. 7, 1958.

HAI-YANG YU HU-CHAO

Selected Articles, Vol. II, No. 1, 1959. (OTS, Tr. JPRS 7299)
Contents:

Chung-Pen, Ho, et al., "A Preliminary Study of the Formation and Characteristics of the Yellow Sea Cold Water Mass."

En-Tien, Ho, "Calculations of Numerical Value of Wind and Sea Currents Within a Semi-Enclosed Sea Area."

HOCHFREQUENZTECHNIK UND ELEKTROAKUSTIK

Hachenberg, O., and Schachenmeier, R., "The Refraction of Decimeter Waves in the Troposphere," No. 1, May 1959. * (OTS, Tr. JPRS-R-227-D)

IDŐJÁRÁS

Aujeszký, László, "Medium-Range Weather Forecasting in the Hungarian Meteorological Service," Vol. 54, No. 3, May/June 1960. (OTS, Tr. JPRS 9061)

Aujeszký, László, "Meteorological Aspects of Artificial Satellites," Vol. 59, No. 5, 1955.

Czelnai, R., "The Application of Temperature-Measuring Thermistors in Micro-meteorological Research," Vol. 61, 1957. (OTS, Tr. AEC/SCL-T-215)

Goll, Georg, "An Electrical Telethermometer for Meteorological Measurements, Functioning With a Thermistor," Vol. 61, 1957. (SIATC, Tr. SLA 58-2111)

Szirmal, Ervin, "Meteorology and Politics," Vol. 54, Nos. 7/8, 1960.

INFORMACIONNYI BIULLETEN'

Sen'ko, P. K., "Unusual Localized Character of Magnetic Variation in the Mirny Region," No. 1, 1958. * (DRB, Tr. T319R)

INFORMATSIONNY BIULLETEN' SOVETSKOI ANTARKTICHESKOI EKSPEDITSII

Astapenko, P. D., "Concerning Cyclonic Activity in the High Latitudes of the Southern Hemisphere During the Winter Period," No. 5, 1959. * (USWBL)

INGENIEUR

Mijnheer, A. B., "Errors in Static Temperature Measurements," Vol. 67, No. 1, 1955. (AD-159078) * (TILS)

INSTITUTA EKSPERIMENTAL'NOI METEOROLOGII

Rudakova, N. V., "Ozone as a Condensation Factor of Water Vapor," No. 1, 1937. (USWBL)

INZHENERNIY FIZIKI ZHURNAL

Karol, I. L., "Semiempirical Theory of Vertical Turbulent Diffusion in the Boundary Layer of the Atmosphere," Vol. III, No. 4, 1960. (OTS, Tr. JPRS 9085)

ISKUSSTVENNYE SPUTNIKI ZEMLII

- Batrakov, V. Yu., and Proskurin, V. F., "Perturbations of Orbits of Artificial Satellites Due to Air Resistance," No. 3, 1959. (AD-246260) * (NASA, Tr. TTF-46)
- Beletskiy, V. V., "The Librations of a Satellite," No. 3, 1959. * (NASA, Tr. TTF-10)
- El'yasberg, P. Ye., "Dependence of Secular Variations in Orbit Elements on Air Resistance," No. 3, 1959. (AD-245906) * (NASA, Tr. TTF-47)
- Gringauz, K. I., "Rocket Measurement of the Electron Concentration in the Ionosphere by Means of an Ultra-Short Wave Dispersion Interferometer," No. 1, 1958. (AD-232006) * (MA, Tr. RAE 861)
- Imyanitov, I. M., and Shvarts, Ya. M., "Methods for the Control of Interfering Currents Originating at the Input of an Electrostatic Fluxmeter During Its Operation in a Conducting Medium," No. 3, 1959. (NASA, Tr. TTF-16)
- Istomin, V. G., "An Investigation of the Ionic Composition of the Earth's Atmosphere With the Aid of Rockets and Satellites," No. 2, 1959. *
- Istomin, V. G., "Radio-Frequency Mass Spectrometer Investigation of Ionic Composition of Upper Atmosphere," No. 3, 1959. (AD-234501) (NASA, Tr. TTF-8)
- Kolegov, G. A., "Variations in the Density of the Upper Atmosphere From Data on the Change of Periods of Revolution of Artificial Earth Satellites," No. 4, 1960. (AD-253443) * (MA, Tr. RAE 934)
- Krasovskiy, V. I., "Soviet Studies of the Ionosphere Using Rockets and Artificial Earth Satellites," No. 2, 1959. *
- Mikhnevich, V. V., et al., "Certain Results in the Determination of Structural Parameters of the Atmosphere With the Aid of the Third Soviet Artificial Earth Satellite," No. 3, 1959. (AD-236119/or AD-237570) (NASA, Tr. TTF-13)
- Mikhnevich, V. V., "Preliminary Results of a Determination of the Density of the Atmosphere Above 100 km," No. 2, 1959. *
- Mirtov, B. A., "Meteorologic Matter and Some Geophysical Problems of the Upper Atmosphere," No. 4, 1960. (Plenum Press)
- Shklovskiy, I. S., and Kurt, V. G., "The Determination of the Density of the Atmosphere at an Altitude of 430 Kilometers by the Sodium Vapor Diffusion Method," No. 3, 1959. (AD-239272) * (NASA, Tr. TTF-15)
- Zhekulin, L. A., "Distribution of the Electron Concentration With Height From the Data of Tests With Rockets and Artificial Earth Satellites and Its Influence on Radio Wave Propagation," No. 1, 1958. (AD-232615) * (MA, Tr. RAE 862)
- Zonov, Yu. V., "On the Problem of the Interaction of a Satellite With the Magnetic Field of the Earth," No. 3, 1959. (AD-236420) * (NASA, Tr. TTF-37)
- Selected Abstracts, No. 3, 1959. (AD-234501) * (NASA, Tr. TTF-8)

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IZVESTIYA

- Danilin, B., "Respiration of the Atmosphere," No. 99, 26 April 1959. *
- Ginzburg, V., and Razorenov, L., "The Sputnik Radiated to Earth," No. 124, 27 May 1959. *
- Kalashnikov, A., "Cosmos Reveals Its Secrets — Celestial Magnetic Field," No. 224, 20 September 1959. *
- Lanina, V., "Reconnaissance of the Blue Ocean," 1 April 1959. (OTS, Tr. PB 131632-63)
- Mirtov, B. A., "In the Upper Layers of the Atmosphere," 5 July 1960 * (OTS, Tr. PB 131632-130)
- Shkolovskiy, I. S., and Krasovskiy, V. I., "Corona of the Earth Globe," No. 57, 1959. *
- USSR, "Arctic. Soviet Drifting Stations," 27 July 1954, 15 September 1954, 12 November 1954.
- Zhigalov, Fridrikh, et al., "Bombers Remodeled Into Aerological Laboratories," 13 October 1960. (OTS, Tr. PB 131632-145)

IZVESTIYA AKADEMIIA NAUK SSSR

- Chekotillo, A. M., "Permafrostology Outside the USSR as of 1955," Vol. 3, 1956. (USACRR)
- Fesenkova, V. G., "Investigation of the Atmosphere by Means of Photometric Analysis of Twilight," No. 10, 1934. (DSIR, Tr. LLU M.1934)
- Krasovskiy, V. I., et al., "Detection in the Upper Atmosphere of Electrons With Energies of About 10 keV by Means of the Third Soviet Satellite," No. 8, 1959. *

IZVESTIYA AKADEMIIA NAUK AZERBAJDZHANSKOI SSR, SERIYA GEOLOGEOGRAFICHESKAIA NAUK

- Kashkay, M. A., et al., Summary: "Upper Atmosphere," No. 1, 1960. (OTS, Tr. PB 131632-125)

IZVESTIYA AKADEMIIA NAUK AZERBAJDZHANSKOY SSR, SERIYA FIZICHESKIKH MATEMATICHESKIKH I TEKHNIICHESKIKH NAUK

- Alizade, A. S., "Study of Thunderstorm Processes in the Azerbaydshan SSR," Vol. II, 1960. (OTS, Tr. JPRS 4386)

IZVESTIYA AKADEMII NAUK SSSR, OTDELENIYE TEKHNIЧЕСКИХ НАУК, MEKHANIKA I
MASHINOSTROYENIYE

Stanyukovich, K. P., "Aerodynamic Effects of Meteorites. A Specific Case," No. 5, 1960. * (NASA Tr. TTF-70)

IZVESTIYA AKADEMII NAUK UzSSR, SERIYA FIZIKO-MATEMATICHESKIKH NAUK

Gubin, V. I., and Karimberdiyeva, S., "Predicting the Height of the 700-mb Isobaric Surface by Means of the 'Ural' Electronic Computer," No. 3, 1960. (OTS, Tr. JPRS 6465)

Kaznacheyeva, V. D., "Problem of Frontogenesis Dynamics," No. 1, 1958. (OTS, Tr. JPRS 2842)

IZVESTIYA AKADEMII NAUK SSSR, SERIYA GEOfIZICHESKAYA

Aleksandrov, E. L., "Sixth USSR Conference on Problems of the Study of Clouds, Precipitation and Weather Modification," No. 10, 1959. * (OTS, Tr. JPRS 1148-D)

Amineva, T. P., "Radioactivity of Air Under Meteorological Conditions in the Vicinity of Mount Elbrus," No. 10, 1960. (OTS, Tr. JPRS 7494)

[Anon]: "Conference of the Main Geophysics Observatory on the Meteorology of the Surface Air Layer," No. 10, 1957. (PP)

[Anon]: "Conference on Problems of Investigating Thunderstorms and Hailstorm Phenomena in the Alazan Valley," No. 10, 1957. (PP)

Antonova, L. A., and Ivanov Kholodniy, G. S., "Experience in Measuring Corpuscular Radiation in the Upper Atmosphere," No. 5, 1960. * (OTS, Tr. JPRS 5440)

Arkhangel'skaya, V. M., "On the Study of Surface Waves," No. 2, 1961. (OTS, Tr. JPRS 8287)

Balabanova, V. N., et al., "Experiments on the Modification of Cumulus Clouds in the Alazani Valley," No. 2, 1959. (ATS, Tr. RJ-2834, Price \$18.40, extra copies \$4.50)

Balabanova, V. N., et al., "The Influences of the Air Medium Temperature on the Action of Silver Iodide Particles as Crystallization Nuclei," No. 12, 1959. (ATS, Tr. RJ-2835, Price \$7.65, extra copies \$0.90)

Bocharov, E. I., and Krutikov, A. S., "The Absorption of Radiation in Liquid Water," No. 7, 1958. (AD-245736) *

Bocharov, E. I., "The Attenuation of Infra-red Radiation by Water Fogs," No. 6, 1958. (AD-226282) *

Bolyunova, A. D., "A Contribution Towards the Construction of a Model of the Atmosphere," No. 10, 1960. (OTS, Tr. JPRS 7735)

IZVESTIYA AKADEMIIA NAUK SSSR, SERIYA GEOFIZICHESKAYA (Cont'd)

- Bugayev, V. A., "Scientific Conference on the Meteorology of the Antarctic," No. 2, 1960. (OTS, Tr. PB 131632-121)
- Bukhnikashvili, A. V., "Twenty Five Years of the Institute of Geophysics Academy of Sciences Georgian SSR," No. 10, 1958. (OTS, Tr. JPRS L-588-N)
- Bulinskaia, N. A., "The Formation of Wind Field," No. 11, 1958. (PS)
- Dergach, A. L., et al., "Progress in a Complex Investigation of St-Sc Type Clouds and of Fogs in the Arctic," No. 1, 1960. *
- Diubiuk, A. F., "Determination of the Wind Through a Pressure Field in Computing the Friction of Vertical and Horizontal Mixing," No. 2, 1958. (AD-211963) *
- Dmitriyev, A. A., et al., "On the Extent of the Effect of Cosmic Dust on Certain Actinometric Characteristics of the Atmosphere," No. 10, 1960. (OTS, Tr. JPRS 7734)
- Driving, A. Ia., and Smirnova, A. I., "Clouds in the Stratosphere," No. 3, 1958. (AD-210643) *
- Dziedzhevskii, B. L., "Possibilities of Changing the Climatic Conditions of the Caspian Region," No. 1, 1952. (SLATC)
- Enenshtein, B. S., and Aronov, L. E., "Experimental Research Into the Natural Electromagnetic Field of the Earth in the Frequency of 2-300 c/s," No. 1, 1957. (USWBL)
- Fedorova, N. I., Abstract: "Hydroxyl Emission of the Upper Atmosphere," No. 6, 1959. (OTS, Tr. PB 131632-80)
- Fel'dshteyn, Ya. I., "The Distribution of Aurorae in the Circumpolar Region," No. 1, 1959. (OTS, Tr. PB 131632-54)
- Feygel'son, Ye. M., Abstract: "Radiation Cooling of Stratus Clouds," No. 6, 1959. (OTS, Tr. PB 131632-80)
- Frenkel, Ya. I., "Photochemical Mechanism of Formation of Condensation-Nuclei in the Terrestrial Atmosphere," No. 2, 1953. (SLATC)
- Gruza, B. V., "Interlatitudinal Heat Exchange in the Northern Hemisphere," No. 2, 1960. (OTS, Tr. JPRS 2762)
- Gruza, G. V., "The Kinetic Energy of Atmospheric Movements," No. 10, 1960. (OTS, Tr. JPRS 7493)
- Gurvich, A. S., "Frequency Spectra and Probability Distribution Functions of the Vertical Component of Wind Velocity," No. 7, 1960. (OTS, Tr. JPRS 6586)
- Gutman, L. N., and Koronotova, T. D., "A Theory of Slope Winds," No. 10, 1957. (PP)

IZVESTIYA AKADEMIIA NAUK SSSR, SERIYA GEOFIZICHESKAYA (Cont'd)

- Iudalevich, F. F., "Multiple Scattering in the Infrared Region of the Spectrum," No. 7, 1956. (DRB, Tr. T239R)
- Ivanov-Kholodnyy, G. S., "On Rocket Investigation of the Shortwave Radiation of the Sun," No. 1, 1959. *
- Ivanov, R. N., "Mechanism of the Transfer of Wind Energy to a Water Current," No. 5, 1958. (AD-235816) *
- Kachalov, N. A., et al., "The Ultraviolet Spectrum of the Sun in the 2471 to 2635 Å Wavelength Region," No. 9, 1958. *
- Kachurin, L. G., "Comparison of Various Equations for the Freezing of Supercooled Aqueous Aerosols," No. 1, 1959. (OTS, Tr. JPRS L-1620-D)
- Kachurin, L. G., "The Freezing of Monodispersed Aqueous Aerosols," No. 2, 1951. (SLATC)
- Kachurin, L. G., "The Freezing of Poly-dispersed Aqueous Aerosols," No. 2, 1951. (SLATC)
- Kachurin, L. G., et al., "Temperature Limits for Formation of Ice Particles in Supersaturated Water Vapor," No. 7, 1956. (DRB, Tr. T237R)
- Karavayeva, V. I., "The First Moscow City Conference of New Scientists on the Problems of Oceanology," No. 3, 1959. (Navy 2377/HO 87)
- Karol, I. L., "The Influence of the Surface Layer of the Atmosphere on the Diffusion of a Heavy Homogeneous Admixture From a High Instantaneous Point Source," No. 7, 1959. (OTS, Tr. JPRS 6136)
- Karol, I. L., "On the Hypothesis of a Quasi-Stationary Surface Layer in the Theory of the Turbulent Diffusion of a Heavy Aerosol in the Boundary Layer of the Atmosphere," No. 5, 1960. (OTS, Tr. JPRS 5841)
- Katyushina, V. V., "On the Absorption of Solar $H\alpha$ Radiation in the Earth's Atmosphere," No. 10, 1960. (OTS, Tr. JPRS 7733)
- Kazanskiy, A. B., and Monin, A. S., "On Turbulent Conditions in the Near-Ground Layer of the Atmosphere Under Unsteady Stratification," No. 6, 1958. *
- Kogan, R. M., and Friedman, Sh. D., "Energy Distribution of Gamma-Ray Quanta in the Atmospheric Layer Near the Earth's Surface," No. 4, 1960. (OTS, Tr. JPRS 5786)
- Kolesnikov, A. G., and Speranskaya, A. A., "A Device for Determining Heat Flows," No. 11, 1958. (TAGU)
- Kopanev, I. D., "Air Temperature and Humidity Over a Drained Bog," No. 4, 1957. (USWBL)
- Krasnogorskaya, N. V., "The Change in Atmospheric-Electric Conductivity Under Various Meteorological Conditions," No. 4, 1958. (AD-215609) *

IZVESTIIA AKADEMIIA NAUK SSSR. SERIIA GEOFIZICHESKAIA (Cont'd)

Krasnogorskaia N. V., "A Photoelectric Method of Investigating the Particle Size Distribution of Precipitation," No. 6, 1955. (ATS, Tr. RJ-1340, Price \$10.80, extra copies \$3.10)

Krylov, P. A., "Research on the Solar Constant," No. 10, 1957. (PP)

Kuznetsov, E. S., "A General Method for Deriving Approximate Equations for the Transfer of Radiant Energy," No. 4, 1951.

Kuznetsov, E. S., "Radiation Equilibrium of the Gaseous Envelope Surrounding an Absolutely Black Sphere," No. 3, 1951.

Laktionov, A. G., "An Automatic Flow Instrument for the Investigation of Natural Aerosols," No. 11, 1951. (OTS)

Laktionov, A. G., and Levin, L. M., "Comparative Measurements of the Concentration and Distribution Function of Water Aerosol Particles," No. 7, 1960. (OTS, Tr. JPRS 6587)

Laktionov, A. G., "Results of Research on Natural Aerosols Over Various Regions of the USSR," No. 4, 1960. (OTS, Tr. JPRS 5787)

Leikin, G. A., "A Sonde for Measuring Density and Temperature When Moving at Supersonic Velocity in a Highly Rarefied Medium," No. 4, 1958. (AD-227547) *

Levin, L. M., "On the Random Electrification of Cloud and Raindrops," No. 11, 1956. (SLATC, Price \$1.80)

Liliyenberg, D. A., "Interdepartmental Conference on Glaciation of the Caucasus," No. 5, 1959. (OTS, Tr. JPRS 2428)

Litvinov, I. V., "Determination of the Steady-State Velocity of Falling Snow Particles," No. 7, 1956. (AD-145406) * (DRB, Tr. T238R)

Litvinov, I. V., "The Function of the Distribution of Particles of Liquid Precipitates," No. 12, 1956. (SLATC)

Litvinov, I. V., "The Origin of Multilayered Hailstones," No. 2, 1958. (AD-215678)*

Malakhov, S. G., et al., "Space and Time Variations of the Natural Radioactivity of the Atmosphere," No. 5, 1960. (OTS, Tr. JPRS 6142)

Malovichko, A. K., "Averaging Anomalous Fields," No. 2, 1951. (AD-202647) *

Martvel', F. E., and Pogorelov, V. I., "Relationship Between Illumination of Auroras and Radar Reflections From Them," No. 8, 1958. (OTS, Tr. JPRS-460-D)

Megrelishvili, T. G., "Re the Limits of Applicability of the Twilight Method of Atmospheric Research," No. 8, 1956. (AD-204507)

Megrelishvili, T. G., Abstract: "Spectral Investigations of the Twilight Sky in the Infrared Range," No. 6, 1959. (OTS, Tr. PB 131632-80)

IZVESTIYA AKADEMIIA NAUK SSSR, SERIYA GEOFIZICHESKAYA (Cont'd)

- Mikirov, A. E., "Analyser for Cloud and Rain Particles," No. 13, 1957. (PP)
- Monin, A. S., "Preliminary Characteristics of the Zone Circulation of the Atmosphere," No. 10, 1958. (OTS, Tr. JPRS-L-589-N)
- Monin, A. S., and Obukhov, A. M., "Slight Atmospheric Variations and the Adaptation of Meteorological Fields," No. 11, 1958. (AD-215605) *
- Mordukhovich, M. I., "Local Acoustical Method for Measuring Air Temperature," No. 3, 1959. (OTS, Tr. JPRS-L-985-N)
- Mordukhovich, M. I., "Some Results of the Study of Air Temperature to Heights of 28 Kilometers by Means of the Local Acoustical Method," No. 1, 1960. (OTS, Tr. JPRS 2671)
- Musaelyan, Sh. A., "Centers of Action in the Atmosphere," No. 12, 1957. (PP)
- Nemchinov, G. V., "Taking Into Account the Modification of Air Masses on a Short Range Forecast of the Non Zonal Deviations of Absolute Topography of an Isobaric Surface," No. 5, 1959. * (OTS, Tr. JPRS 5215)
- Nemchinov, S. V., "Short Period Forecast of Non-Zonal Shift in Heights of the Absolute Topography for the Lower and Middle Troposphere," No. 6, 1958. (OTS, Tr. JPRS 1633-N)
- Novikov, Ye. A., "Settling of Particles From an Aerosol Stream on an Obstacle," No. 8, 1957. (OTS, Tr. JPRS 9084)
- Petrov, G. D., "Methods for Measuring Charges and Sizes of Aerosol Particles From an Airplane," No. 11, 1959. (OTS, Tr. JPRS 2656)
- Pogorelov, V. I., "Comparisons of the Parameters of Radio Reflection With Variations of the Magnetic Field During Auroras," No. 7, 1960. * (OTS, Tr. PB 131632-138)
- Pogorelov, V. I., "Radar Reflections From Auroras," No. 8, 1958. (OTS, Tr. JPRS 459-D)
- Pudovkina, I. B., and Katsyka, A. P., "Measuring Electrical Charges in Artificial Fogs and Natural Clouds," No. 5, 1960. * (OTS, Tr. JPRS 5356)
- Pudovkina, I. B., "Study of Atmospheric Electricity on the El'brus Mountain," No. 3, 1954. (AD-255415) *
- Pyaskovskaya-Fesenkova, E. V., "Study of Light Scattering in the Earth's Atmosphere," No. 12, 1957. (PP)
- Sarkisyan, A. S., "Theory of Transient Wind Currents in an Isotropic Ocean," No. 10, 1957. (PP)
- Sergieva, A. P., "The Electrical Charges of Cloud Particles," No. 3, 1958.
- Shifrin, K. S., and Rabinovich, Yu. I., "The Spectral Indicatrices of Large Water Drops and the Spectral Polarization of Rainbows," No. 12, 1957. (PP)

IZVESTIYA AKADEMIIA NAUK SSSR, SERIYA GEOFIZICHESKAYA (Cont'd)

- Shklovskiy, I. S., et al., "The Nature of Corpuscular Radiation in the Upper Atmosphere," No. 12, 1959. (OTS, Tr. JPRS 3123)
- Shuleikin, V. V., "Calculation of the Possible Dimensions of Waves in Atlantic Hurricanes," No. 7, 1960. (OTS, Tr. JPRS 6586)
- Shuleikin, V. V., et al., "Fluctuations in the Heat Balance of the Atlantic Ocean," No. 6, 1958. (AD-252315) *
- Smirnov, N. S., "The Problem of the Effect of an Atomic Explosion on the State of the Atmosphere," No. 10, 1956. (ATS, Tr. RJ-1313, Price \$12.50, extra copies \$1.75)
- Taylor, R. J., "The Form of Wind Profile in the Layer of Atmosphere Near the Ground," No. 12, 1960. * (CSIRO)
- Tkachuk, V. R., "Computation of the Horizontal Wind Components When Calculating the Internal Friction and Non-Linear Terms of Acceleration," No. 12, 1958. (ATI-236563) *
- Tsvang, L. R., "Impulse Method of Measuring the Spectrum of Light Ions in the Atmosphere," No. 2, 1956. (AD-258849) * (TIC, Tr. F-TS-9946/III)
- Tsvang, L. R., and Komarov, N. N., "Investigation of the Spectrum of Light Ions in the Free Atmosphere," No. 8, 1959. (OTS, Tr. JPRS 6108)
- Velikanov, M. A., "The Work of Soviet Geophysicists on Problems of Dry-Land Hydrology," No. 11, 1957. (PF)
- Vul'fson, N. I., and Levin, L. M., "Interdepartmental Conference on Problems of the Investigation of Clouds Precipitation and Atmospheric-Electricity," No. 6, 1956. (SLATC)
- Yudalevich, F. F., "In the Commission of the Physics of the Atmosphere," No. 6, 1959.
- Yudalevich, F. F., "Multiple Scattering in the Infrared Region of the Spectrum," No. 7, 1956. (AD-204608) * (DRB, Tr. T239R)
- Zwang, L. R., and Gutman, L. M., "Measurement of the Spectrum of Atmospheric Light Ions," No. 7, 1958. *

IZVESTIYA AKADEMIIA NAUK SSSR, SERIYA GEOGRAFICHESKAYA

- Kuvshinova, K. V., "Scientific Conference on the Problems of the General Circulation of the Atmosphere," No. 4, 1960. (OTS, Tr. JPRS 4106)
- Maksimov, I. V., "On Some Phenomena of the Eleven-Cycle of the Sun's Activity," No. 1, 1954. (AD-258450) * (TIC, Tr. MCL-68/1+2)

IZVESTIYA AKADEMIIA NAUK SSSR, SERIYA GEOGRAFIKESKAYA I GEOFIZIKESKAYA

Ol', A. I., "Solar Activity and Geomagnetic Disturbances," No. 6, 1943. (AD-137555)*

Vershinin, P. V., et al., "The Nonfreezing Water in Soil," Vol. 13, No. 2, 1949.
(AD-238979) *

IZVESTIYA ASTROFIZICHESKOGO INSTITUTA, AKADEMIIA NAUK KAZAKHSKOY SSSR

Divari, N. B., "On the Color of the Twilight Sky Zenith," No. 9, 1960. (OTS, Tr. JPRS 5650)

Karyagina, Ye. V., and Tulenkova, L. N., Abstract: "A Spectrophotometric Investigation of the Continuous and Emission Spectra of the Night Sky in the Visual Region of the Spectrum," No. 9, 1960. (AD-244997) * (OTS, Tr. JPRS 5650)

Toropova, T. P., "Some Results of Measurements of the Indicatives of Scattering and the Polarization of Light in the Ground Layer of the Atmosphere," No. 9, 1960.
(OTS, Tr. JPRS 5650)

IZVESTIYA GLAVNAYA GEOFIZIKESKAYA OBSERVATORIYA

Churina, M. P., "Experiment in Calculating the Coefficient of Turbulent From a Temperature-and-Wind Sounding," No. 63, (125), 1956.

Chuvayev, A. P., "Concerning the Features of a Methodology of Effects of 'Dry Ice' Upon Convective Clouds With the Purpose of Causing Precipitation in Them," No. 72, 1959.

Chuvayev, A. P., et al., "Experience in Controlling Development of Powerful Convective Clouds Over a Considerable Area," No. 72, 1957. (TIC, Tr. F-TS-9918/V)

Chuvayev, A. P., "An Experiment in Controlling the Development of Strongly Convective Clouds in Northwestern European USSR," No. 67 (129), 1957. (ATS, Tr. RJ-2850, Price \$64.95, extra copies \$15.75)

Veinberg, B. P., "The Influence of Temperature on the Mechanical Strength of River Ice," No. 2, 1929. (AD-235825) *

IZVESTIYA AKADEMIIA NAUK SSSR, KRIMSKAYA ASTROFIZICHESKAYA OBSERVATORIYA

Bumba, V., "The Relationship Between Chromospheric Flares and Magnetic Fields of Sunspot Groups," Vol. 19, 1958.

Kazachevskaya, T. V., and Severnyi, A. B., "The Hydrogen Spectrum of Flares," Vol. 19, 1958. (AD-232207) *

Kazachevskaya, T. V., "Profiles of the H and K Ca II Lines in a Flare Spectrum," Vol. 20, 1959. (AD-232209) *

IZVESTIYA AKADEMIIA NAUK SSSR, KRIMSKAYA ASTROFIZICHESKAYA (Cont'd)

- Kozyrev, N. A., "The Luminescence of the Lunar Surface and the Intensity of Solar Corpuscular Radiation," Vol. 16, 1956. (AD-252312) *
- Mustel', E. R., "The Chromosphere Above Sunspots," Vol. 13, 1955. (AD-161763) *
- Mustel', E. R., and Severnyy, A. B., "Investigation of the Spectra of the Great Chromospheric Flare of 5 August 1949," Vol. 8, 1952.
- Odintsova, I. N., "Determination of the 'Quiescent' Ionosphere," Vol. 17, 1959. (AD-252313) *
- Savich, N. A., "The Behavior of the Ionosphere During Solar Flares," Vol. 19, 1958. (TIC, Tr. MCL/487/1)
- Severnyi, A. B., A. B., "The Appearance of Flares in Neutral Points of the Solar Magnetic Field, and the Pinch-Effect," Vol. 20, 1958. (AD-232099) *
- Severnyi, A. B., "The Excitation and Ionization of Hydrogen in Flares," Vol. 19, 1958. (AD-232100) *
- Severnyi, and Stepanov, V. E., "First Observations of the Magnetic Fields of Sunspots Made at the Crimean Astrophysical Observatory," Vol. 16, 1956. (AD-232205) *
- Severnyi, A. B., "Investigation of the Fine Structure of the Emission in Active Regions of the Sun and Non-Stationary Processes," Vol. 17, 1957. (AD-232101) *
- Shklovskiy, I. S., "The Ultraviolet Radiation of the Crown and the Chromosphere and the Ionization of the Terrestrial Atmosphere," Vol. IV, 1949. *
- Stepanov, V. E., and Kliakoto, M. A., "Large Scale Movements in the Subphotospheric Layers of the Sun," Vol. 16, 1956. (AD-252319) *
- Stepanov, V. E., "Local Magnetic Fields, Fine Chromospheric Structure and Filaments in H_α," Vol. 20, 1958. (AD-232208) *
- Stepanov, V. E., "On the Theory of the Formation of Absorption Lines in a Magnetic Field and the Profile of Fe 6173 Å in the Solar Sunspot Spectrum," Vol. 19, 1958. (TIC, Tr. MCL/487/1)
- Yeryushev, N. N., and Neshpor, Yu. I., "Concerning the Relationship Between Solar Flares and Phenomena in the Lower Ionosphere," Vol. 20, 1958. (AD-257676) (TIC, Tr. MCL/488) (OTS, Tr. Price \$1.60)
- Selected Articles, Vol. 19, 1958. (AD-257675) (TIC, Tr. MCL/487) (OTS, Price \$5.60)

IZVESTIYA AKADEMII NAUK SSSR, OTDELENIYE TEKHNIЧЕСКИХ НАУК

Kvashnina, S. S., and Korobeynikov, V. P., "Solution of Some Problems on the Motion of Air Taking Into Consideration Dissociation and Ionization," No. 2, 1960. * (OTS, Tr. JPRS 5303)

IZVESTIYA VSESoyuznogo Geograficheskogo Obshchestva

Borisov, A. A., "On the Palaeoclimatic Conditions Formation of the Main Pressure Centres of the Present Climate of the Earth," Vol. 91, 1959. (DSIR, Tr. LIU M. 1789)

Hakkel' Ya. Ya., "Tectonic Deformation Naturally Modeled in the Sea Ice Cover," Vol. 91, No. 1, 1959. (DRB, Tr. T328R)

Parmuzin, Yu. P., "The Zonal Character of the Cold Pole," No. 5, 1958. *

IZVESTIYA VYSSHIKH Uchebnykh Zavedeniy - Geodeziya i Aerofotos'yemka

USSR, "Scientific-Technical Conference of the Moscow Institute of Engineers of Geodesy, Aerial Surveying and Cartography," No. 3, 1959. * (OTS, Tr. 60-11,213)

IZVESTIYA VSYSSHIKH Uchebnykh Zavedeniy Radiofizika

Dokuchayev, V. P., "Contribution to the Theory of Motion of Ionospheric Inhomogeneities," No. 1, 1958.

Kurt, V. G., "Determining the Density of the Neutral Component of the Ionosphere," Vol. II, No. 6, 1959. (OTS, Tr. PB 131632-118)

JEN-MIN JIH-PAO

[Anon]: "Correctly Grasp Meteorological Forecast to Reduce Damages," 12 August 1960. (OTS, Tr. JPRS 5708)

[China]: Summary: "Institute of Geophysics Brings Up New Concept on the Theory of East Asiatic Monsoons," 11 November 1959. *

JOURNAL OF ATOMIC ENERGY SOCIETY (Japan)

Yasushi, Nishiwaki, "On the Method of Estimation of the Population Dose, Population, and Surface Area Covered by the Diffusion of Radioactive Clouds," Vol. 1, 1959. (OTS, Tr. AEC-4463)

JOURNAL OF CHINESE METEOROLOGY (See: CH'I-HSIANG HSUEH-PAO)

JOURNAL OF GEOPHYSICAL RESEARCH

Wegener, Kurt, "The Measurement of the Sun's Radiation and of the Solar Constant,"
Vol. 54, No. 1, 1949.

JOURNAL OF METEOROLOGICAL SOCIETY OF JAPAN (See: KISHO SHUSHI)

JOURNAL OF METEOROLOGICAL RESEARCH (See: CHUO KISHODAI KENKYU JIHO)

JOURNAL OCEANOGRAPHY SOCIETY OF JAPAN

Kusunoki, K., "Observations on the Horizontal and Vertical Distribution of Chlorinity
of Sea Ice," No. 11, 1955. (BMOL)

Tabata, T., "A Measurement of Visco-Elastic Constants of Sea Ice," No. 11, 1955.
(BMOL)

JOURNAL SCIENTIFIQUE DE LA METEOROLOGIE

Kiveliovitch, M., and Vialar, J., "Statistical Study of Time Series," Vol. 5, No. 17,
1953.

Vassy, Arlette, "Special Radiosonde for Measuring the Vertical Distribution of Ozone
in the Atmosphere," Vol. 10, No. 38, 1958. (Navy 2333/NRL 747)

KAZAKHSTANSKAYA PRAVDA

Merkina, Ye., "Weather Scouts," No. 4, 1958. *

KHIDROLOGIYA I METEOROLOGIYA (Sofia)

Lalovski, Kh. R., and Blagoev, Kh. R., "Anticyclonic Type Weather in Bulgaria," No. 1,
1958. (OTS, Tr. JPRS/DC-L-444)

Martinov, M., "Cold Fronts on the Western Quadrant and Conditions Producing Fronto-
genesis or Frontolysis Over the Balkan Peninsular," No. 5, 1960. (OTS, Tr. JPRS
8151)

Subev, L., and Stanev, Sv., "The Climatic Regions in Bulgaria and Their Climate,"
No. 3, 1959. (OTS, Tr. JPRS 2788)

Sueva, V., "Ice Conditions of the Danube River (Bulgaria)," No. 1, 1958. (OTS, Tr.
JPRS/NY-L-443)

KISHO SHUSHI (Japan)

Ito, K., et al., "Size Distribution Crystal Form and Fall Velocity of Snowflakes," Ser. 2, Vol. 31, No. 6, 1953.

Morita, Yasutaro, and Fukui, Katsura, "Study of Radioactivity During a Rainfall," Vol. 3, No. 1, 1956. *

Sano, I., et al., "An Experimental Investigation of the Ice-Nucleating Properties of Some Chemical Substances," Ser. 2, Vol. 34, No. 2, 1956.

K'O-HSUEH HUA-PAO

[Anon]: "The 1000-Mile Eyes of Meteorological Observatories -- 'Weather Radar'," June 1959.

K'O-HSUEH HSIN-WEN

Chiung, Lu, "The Use of Microclimatology," No. 38, 1959. (OTS, Tr. JPRS 7462)

[China]: "The Building of 30,000 Atmosphere, Liquid Medium, High-Pressure Equipment," No. 34, 1959. (OTS, Tr. JPRS 2416)

K'O-HSUEH T'UNG-PAO

Tu-Cheng, Yeh, and Shih-Yen, T'ao, "Some Discoveries on the Effect of the Tibetan Plateau on General Circulation," No. 7, 1958. (OTS, Tr. JPRS 4465)

Yang Chien-Chiu, "Weather Forecasting in Communist China," "The Practice and Prospect of Long-Range Weather Forecasting," No. 23, 1958. (OTS, Tr. JPRS 1594-N)

Yang Wen, "Second and Third Enlarged Council Meetings of the Meteorological Society of China," No. 16, 1958. (OTS, Tr. JPRS L-772-N, Price \$0.50)

KO-JUI-SSU T'AI-FUNG PAO-KAO

[Anon]: "Report on Typhoon Grace," December 1958.

KOLLOIDNYI ZHURNAL

Prikhotov, P. S., and Leonov, L. F., "The Effect of a Saturation Deficit on the Process of Collision and Coalescence of Water Drops," Vol. 14, No. 1, 1952. (ATS, Tr. RJ-1325, Price \$13.95, extra copies \$2.35)

30 September 1961

AWSP O-15
Vol. II

KRASNAYA ZVEDA

Dodent, and Borisov, D., "What Information Did the Soviet Space Rocket Provide?"
No. 224, September 1959. *

Lutfulin, Zaynulovich Il'ya, Summary: "Weather Forecasting by Electronic Computer,"
11 December 1960. *

KRYL'YA RODINY

Kolobkov, N., "Glider Flights on Long Air Waves," [1950]

KUNGLIGA SKOGS- OCH LANTBRUKSAKADEMIENS TIDSKRIFT

Walstedt, L., "Climate and Vegetation of Mountains," Vol. 97, No. 4, 1958.
(CSIRO, Tr. 4332)

LA MÉTÉOROLOGIE

Lavert, C., "The Phenomenon of Persistence and Its Effects on Statistical
Processing (Reduction)," Vol. IV, Nos. 45/46, 1957. (OTS, AEC/SCL-T-216)

LIMNOLOGISCHE SCHRIFTEN, GEWASSER UND ABWASSER

Grote, A., "The Origin of Atmospheric Oxygen Judged From the Limnological Aspect,"
Vol. XIII, 1956. (DSIR/32184/CT)

MATERIALY PO LABORATORNYM ISSLEDOVANIAM MERZLYKH GRUNTOV

Komarov, V. D., "Water Permeability of Frozen Sand," No. 3, 1957. * (USACRR, No. 66)

MEKHAUZATSIIA STROITEL'STVA

Sergeev, A. I., "Digging Frozen Ground," Vol. 13, 1956. (USACRR)

MEMOIRS OF THE FACULTY OF ENGINEERING, HOKKAIDO IMPERIAL UNIVERSITY

Saheki, Yoichi, "On the Measurement of Wind (Tunnel) Velocity (Distributions) by
the Electric Spark Method," Vol. 8, No. 1, 1947. (DRB)

MÉMOIRES DE L'ARTILLÉRIE FRANÇAISE

Garnier, M., "Modern External Ballistics in France," Vol. 28 (107), 1954.
(AD-113728) * (TILS)

Misme, M. P., "Anomalies in Radar Propagation: One of the Aspects of Radiometeo-
logy," Vol. 31, 1957. * (Navy 1973/ HO-T-40)

MERZLOTOVEDENIE

Berezantsev, V. G., "The Strength of Permafrost Under Building Foundations,"
Vol. 2, No. 1, 1947. (AD-239781) * (Mass. Inst. of Tech., Tr. No. 31)

METEOROS (Buenos Aires)

Machado, E. A. M., and Marchetti, A. A., "Contribution to the Study of the Rises
in the Parana River by Use of the Labrouste Method," Vol. V, No. 3, 1955. (DSIR)

METEOROLOGIJA I GIDROLOGIJA

Afanas'ev, N. I., "Determination of the Amount of Evaporation," 1959, No. 7.
(AD-246345) *

Agureyev, S. P., "Nomogram for Processing Drift Ice Observations," 1958, No. 1.
(AD-220621) *

Akimov, M. N., "Changing the Pressure Comb of a Radiosonde to Extend Its Range,"
1958, No. 2. (OTS)

Alekshina, L. S., and Lugovenko, S. P., "Experimental Work on the Organization of a
Ship's Network," 1958, No. 8. (OTS, Tr. JPRS L-1153-N)

Anapol'skaia, L. E., "Interdepartmental Meeting for Study of the Wind Regime in the
Territory of the USSR," 1956, No. 8.

Anapol'skaia, L. E., and Gandin, L. S., "A Method of Determining Rated Wind
Velocities in Order to Predict Wind Loads on Structures," 1958, No. 10.
(AD-644076)

Andreyev, I. D., "Accuracy of Wind Velocity Measurements With the Automatic
Recorder M-12," 1958, No. 2. (OTS, Tr. JPRS NY-L-462)

[Anon]: "Quantitative Weather Forecasting," 1960, No. 12. (AD-253393)

Antinov, V. P., and Loginov, N. F., "Method of Calculating the Height of Ascent of
Radiosondes Taking into Account the Strength of Balloons at Low Temperature,"
1958, No. 7. (OTS, Tr. JPRS 675-D, Price \$0.50)

Antonov, V. S., and Makhover, Z. M., "What the Charts of Isotherms at the 500-mb
Level Depict," 1956, No. 9. (AD-235761) *

Arkhangel'skii, V. N., and Sukhotskii, E. I., "A New Standard Atmosphere," 1958,
No. 5. (OTS, Tr. JPRS-L-607-N)

Arkhangel'skii, V. L., "Winter Sea of Okhotsk Cyclone — A Seasonal Center of
Atmospheric Activity," 1959, No. 4. (AD-245762) *

Artamonov, A. A., "Method of Predicting Air Temperatures," 1956, No. 12. (USWBL)

METEOROLOGIJA I GIDROLOGIJA (Cont'd)

- Averbakh, N. V., "Determination of the Elements of Surface Sea Currents by the Method of Radioactive Tracers," 1959, No. 9. * (OTS, Tr. 60-11,174)
- Averkiev, M. S., "Diffuse Radiation of a Cloudless Sky," 1956, No. 5.
- Avvakumov, V. A., "The Location of the Level of Maximum Wind Speeds in Different Parts of the Jet Stream," 1959, No. 3. (AD-246340) * (OTS, Tr. JPRS L-1053-N)
- Bagrov, N. A., "Hydrodynamic Methods of Long-Range Weather Forecasting," 1958, No. 11. (OTS, Tr. JPRS L-701-N)
- Baranov, A. M., "The Vertical Extent of Upper-Layer Clouds," 1960, No. 4. (AD-253480)*
- Belinskiy, N. A., and Glagoleva, M. G., "Method of Calculating the Temperature of the Water in the Upper Layer of the Sea in the Warm Part of the Year," 1960, No. 7. (OTS, Tr. JPRS 7343)
- Belogurov, Iu. A., "Diurnal Temperature Variations According to Aerological Observational Data," 1949, No. 4. (AD-245743) *
- Belousov, S. L., "On Numerical Prediction of the Pressure Pattern at Different Levels," 1957, No. 9. * (DT, Met. Tr., No. 1, Jan 59)
- Belousov, S. L., "Precalculation of the Pressure in the Middle Troposphere for the Northern Hemisphere," 1958, No. 11. (OTS, Tr. JPRS L-700-N)
- Belov, P. N., "Forecasting Atmospheric Pressure With the Aid of Empirical Influence Functions," 1958, No. 2. (AD-211961) *
- Berenbeim, D. Ia., and Kochkarev, G. N., "An Unusual Rainstorm," 1958, No. 7. (AD-218733) *
- Bereza, A. I., "Experimental Data on the Growth of Ice in By-Pass Canals," 1958, No. 10. (AD-245744) *
- Berliand, M. E., "Forecasting and Regulating the Thermal Cycle of the Surface Layer of the Atmosphere," 1956, No. 11. (Review by P. N. Tverskoy) (USWBL)
- Betin, V. V., et al., "A Method of Instrumental Aerial Ice Observations of Continental Ice in the Sea," 1959, No. 5. * (HO-122)
- Bodolai, I., "An Attempt at Quantitative Prediction of Cold Front Precipitation," 1959, No. 12. (OTS, Tr. PB 131632-107)
- Bogdanova, A. K., and Kropachev, L. N., "Tidal Circulation and Its Role in the Hydrological Regime of the Black Sea," 1959, No. 4. (AD-252316) *
- Britaev, A. S., et al., "The Question of the Connection of the Total Ozone Content With Meteorological Condition," 1958, No. 10. (AD-238325) *

METEOROLOGIJA I GIDROLOGIJA (Cont'd)

- Budtolayev, N. M., "On the Possibility of Changing the Climate in the Vicinity of Tatar Strait," 1961, No. 2. (OTS, Tr. JPRS 9213)
- Budyko, M. I., "Determination of Evaporation by the Penman Method," 1959, No. 7. (AD-246344) (Superseded by AD-252314) *
- Budyko, M. I., "Meteorological Conference in Berlin," 1958, No. 1. * (OTS, Tr. JPRS-1351-N)
- Budyko, M. I., "Meteorological Research in the USSR," 1957, No. 11. (AD-226783) *
- Bugayev, V. A., "Formation of Jet Stream in the Atmosphere Under the Influence of the Mountain Masses in Central Asia," 1958, No. 5. (OTS, Tr. JPRS/L-603-N)
- Bugayev, V. A., "Meridional Meteorological Profiles," 1958, No. 7. (OTS, Tr. JPRS 675-D, Price \$0.50)
- Bukhgendler, K., "Hydrometeorological Service of Albania on the Rise," 1958, No. 3. (OTS, Tr. JPRS/L-492-N)
- Bukhov, Ye. D., "Weather Analysis and Forecasting by Superimposing a Map of the Tropopause on an AT-300 Map," 1959, No. 4. (OTS, Tr. JPRS/L-1082-N)
- But, I. V., "Temperature Inversion Caused by Rains," 1949, No. 1. (SLATC, Price \$1.80)
- Chuvayev, A. P., "On Conditions Which are Favorable for the Artificial Promotion of Precipitates From Thick Cumulus Clouds," 1956, No. 11. (SLATC, Price \$2.40)
- Davitaya, F. F., et al., "Climatic Resources and Prospects of Their Use in the National Economy," 1960, No. 4. (OTS, Tr. JPRS 2748)
- Davitaya, F. F., "Hydrometeorological Research During the International Geophysical Year," 1956, No. 12.
- Dobryshman, Ye. M., "All-China Meteorological Conference on Long-Range Weather Forecasting," 1959, No. 3. (OTS, Tr. JPRS/L-1058-N)
- Dobryshman, Ye. M., "Zonal Distribution of Humidity in the Troposphere," 1956, No. 12.
- Doroshenko, F. T., "On the Causes of Squall Origin," 1960, No. 4. (AD-253559) * (OTS, Tr. 60-11,702)
- Dranevich, E. P., "Forecasting the Development of Advective Fog in Leningrad Oblast," 1956, No. 8. (USWBL)
- Drogaitsev, D. A., "Calculation of the Curvature of the Isobars in Constructing Wind Fields," 1956, No. 11.
- Dushkin, P. K., et al., "Numerical Prediction of Humidity, Cloudiness, and Precipitation With the Use of a Computer," 1960, No. 12. (AD-254393) *
- Dushkin, P. K., et al., "Prognosis of Cycle- and Anticyclogeneses With the Help of a Computer," 1959, No. 6. (AD-236569) * (OTS, Tr. PB 131632-85)

METEOROLOGIJA I GIDROLOGIJA (Cont'd)

- D'yachenko, L. N., "The Connection Between Radiation Balance and Total Balance," 1958, No. 8.
- Dydina, L. A., "Connection of the Barometric Field Near the Ground With the Distribution of Heat and Cold Source Regions in the Troposphere," 1958, No. 7. (OTS, Tr. JPRS L-596-N, Price \$0.50)
- Dzhordzhyo, V. A., "Atmospheric Ice, Frost, Icing, Snow and Hail," (Review), 1957, No. 2. (SLATC, Price \$1.80)
- Dzhordzhyo, V. A., "The Jet Stream," 1956, No. 6. (AD-202644) *
- Freydzon, A. I., "Handbook of Short-Range Weather Forecasts," 1958, No. 4. (OTS, Tr. JPRS NY-L-538)
- Gaigerov, S. S., "Results of the Aerological Observations Made at the Drifting Station North-Pole-4 in 1955-56," 1957, No. 10. (PS)
- Gal'perin, B. M., and Kuchumova, L. S., "The Influence of Cloudiness on Atmospheric Radiation," 1959, No. 8. (AD-245747) *
- Gandin, L. S., and Dubov, A. S., "The Question of the Qualitative Analysis of the Vorticity Equation," 1957, No. 4. (AD-253552) *
- Ganson, P. P., "Formulas for Computing the Velocity of the Distribution of Sound in Sea Water," 1958, No. 4. (AD-236571) *
- Gavrilova, V. M., "The Movement of Cyclones to Cold Regions," 1958, No. 4. (OTS, Tr. JPRS L-542-N)
- Girs, A. A., and Khrabrov, Yu. B., "Methods of Making Weather Forecasts for Periods of 3-7 Days," 1959, No. 8. (OTS, Tr. JPRS-L-1128-N)
- Girs, A. A., "Transformation of Types of Atmospheric Circulation and Their Analysis," 1956, No. 3. (USWBL)
- Glomozda, A. A., "Forty Years of Hydrometeorological Service in the Belorussian SSR," 1959, No. 2. (OTS, Tr. JPRS L-1064-N)
- Gogoleva, Ye. I., "Using Humidity Charts in the Prognosis of Low Cloudiness," 1956, No. 7. (SLATC, Price \$1.80)
- Goloushkin, V. N., "A. M. Dimaksiyan's New Telemetering Instruments for Hydrometeorology," 1959, No. 3. (OTS, Tr. JPRS L-1055-N)
- Golyshhev, G. I., "Advances in Soviet Aerology," 1957, No. 11. (AD-226783) *
- Goptarev, N. P., "On Certain Characteristics of Wind Gustiness," 1957, No. 5. *
- Gordon, S. M., "The Possibility of Using Radiosonde Temperature Data for Hydrological Computations and Forecasts," 1958, No. 9. (OTS, Price \$0.50)

METEOROLOGIJA I GIDROLOGIJA (Cont'd)

- Gorelik, A. G., et al., "Radar Measurement of Turbulent Motions in Clouds," 1958, No. 2. (AD-211790) *
- Goriunov, I. V., "Combating Bottom Ice and Sludge by Accelerating the Formation of the Ice Cover," 1958, No. 11. (AD-218732) *
- Gorshkov, V. E., "The Question of Winter-Fronto- and Cyclogenesis in the Northern Part of the Sea of Okhotsk," 1957, No. 1. (AD-227428) *
- Guterman, I. G., and Khanevskaya, I. V., "Second All-Union Conference on Problems of Aeroclimatology," 1960, No. 2. (OTS, Tr. PB 131632-115)
- Hsin-Yuan, Tu, "Solution of the Spatial Problem of the Change in the Geopotential With Time, in which the Substitution of Finite Differences for the Laplacian is made more Accurate," 1959, No. 1. (AD-232210)
- Iakovlev, V. I., "The Analytic Method of Processing the Direction-Finding Data of Drifting Automatic Radiometeorological Stations," 1959, No. 7. (AD-245737) *
- Il'inskiy, O. K., "The Problem of the Northern Branch of Zonal (Current) Transport in Winter Over Asia," 1959, No. 8. (OTS, Tr. JPRS/L-1152-N)
- Il'inskiy, O. K., "Some Observations on the Contents of Synoptic Meteorological Manuals," 1958, No. 8. (OTS, Tr. JPRS 679-D, Price \$0.50)
- Iudin, M. I., "Ways of Developing Physical Basis for a Numerical Shortrange Forecast," 1959, No. 2. (AD-234735) *
- Kabot, F. F., and Lyzo, I. T., "Experimental Work of the Brest Aerological Station," 1958, No. 8. (OTS, Tr. JPRS/L-598-N)
- Kachurin, L. G., "Accuracy of the Preheated Psychrometer," 1958, No. 1. * (OTS, Tr. JPRS-1351-N)
- Kachurin, L. G., "On the Radiation Inertia of Aerological Thermometers," 1957, No. 8. (OTS, Tr. AEC/SCL-T-197)
- Kagan, R. L., "The Influence of Condensation Heat Influx on Pressure Change With Time," 1959, No. 2. (AD-245734) *
- Kagan, R. L., "Meteorology," 1960, No. 5. (OTS, Tr. PB 131632-125)
- Kalmykova, N. M., "Formation of the Siberian Anticyclone," 1957, No. 4. (AD-214934)*
- Kaminer, N. S., "Statistical Relations in the Upper Layers of the Atmosphere," 1958, No. 3. (OTS, Tr. JPRS/L-494-N)
- Kashin, K. I., "The Development of Synoptic Meteorology Over the Past Forty Years," 1957, No. 11. (AD-226783) *

METEOROLOGIJA I GIDROLOGIJA (Cont'd)

- Kashin, K. I., and Gritsenko, M. V., "Effect of Advection of Different Layers of the Atmosphere on the Movement of Cyclones and Anticyclones," 1959, No. 2. (OTS, Tr. JPRS/L-1065-N)
- Kashin, K. I., and Gritsenko, M. V., "Surface of Zero Pressure Changes," 1956, No. 8. (AD-153709) * (DRB, Tr. No. 35)
- Kats, A. L., "General Circulation Index as an Indicator for Zonal and Meridional Synoptic Processes," 1959, No. 5. (OTS, Tr. JPRS/L-1075-N)
- Khakhalin, V. S., and Pobiyakho, V. A., "Thirty Years of Radiosondes," 1960, No. 2. (OTS, Tr. PB 131632-115)
- Khmaladze, B. N., "Scientific Session of the Tbilisi NIGMI (Scientific Research State), Meteorological Research Institute," 1958, No. 1. * (OTS, Tr. JPRS-1351-N)
- Khmaladze, G. N., "Scientific Session at the Tbilisi Scientific Research Hydro-meteorological Institute," 1959, No. 2. (OTS, Tr. JPRS/L-1068-N)
- Khrgian, A. Kh., "The Soviet Cloud Atlas and a Classification of Cloud Forms," 1960, No. 3. (AD-253554) *
- Klibashev, K. P., "Conference of the Scientific Council of the State Hydrological Institute of the Progress of Scientific Research Work in 1958," 1959, No. 5. (OTS, Tr. JPRS/L-1079-N)
- Klinov, F. Ya., "Cohesive Crystallization of Atmospheric Water Vapors," 1957, No. 7. (OTS, Tr. JPRS/DC-L-1003)
- Klinov, F. Ya., "Studies of the Surface Atmospheric Layers on Towers and Masts," 1960, No. 12. (OTS, Tr. JPRS 9132)
- Kliukin, N. K., "Concerning the Distribution of Meteorological Elements on Suntar-Khayata Range (Eastern Yakut ASSR)," 1959, No. 1. * (USWBL)
- Kogan-Beletskiy, G. I., "Estimation of Flight Conditions at a High Altitude," 1960, No. 4. (OTS, Tr. JPRS 2749)
- Kogan-Beletskiy, G. I., "The Problem of Determining the Boundaries of the Tropopause," 1957, No. 12. (AD-218734) *
- Kolobkov, N. V., "A Tornado Near Moscow," 1957, No. 6. (AD-215679) *
- Komarov, V. D., "Basic Regularities of the Distribution of the Discharge Coefficients of Snow High Water and the Loss of Thaw Water in the Thawing Period in the European Territory of the USSR," 1958, No. 3. (OTS, Tr. JPRS/L-496-N)
- Konova, N. K., "Cold Intrusions in the Region of the Issyk-Kul' Basin in Winter," 1958, No. 1. * (OTS, Tr. JPRS-1351-N)

METEOROLOGIJA I HIDROLOGIJA (Cont'd)

- Kondrat'yev, K. Ya., and Kuryavtseva, L. A., "On the Question of Albedo of the Sea Surface," 1955, No. 3. * (Navy 2204/HO-62)
- Kondrat'yev, K. Ya., Abstract: "Spectral Albedo of Underlying Natural Surfaces," 1960, No. 5. (AD-245011) *
- Kondrat'yev, K. Ya., and Filipovich, O. P., "Toward a Theory of the Temperature Regime of the Upper Atmosphere," 1959, No. 12. (OTS, Tr. JPRS 2662)
- Korzun, V. I., et al., "Large Scale Automation of Hydrometeorological Operations and the Formation of an Automatic Telemetric Station Network," 1961, No. 2. (OTS, Tr. JPRS 9214)
- Koshelenko, I. V., "Forecasting Radiation Fog," 1956, No. 3. (USWBL)
- Koshinskii, S. D., "Constructing Charts of the Wind Field Over the Sea," 1958, No. 9. (OTS, Price \$0.50)
- Koshinskii, S. D., "Orographic Disturbances in a Wind Field," 1959, No. 5. (AD-238324)
- Kozharin, V. S., "The Role of Turbulent Exchange in the Formation of the Spatial and Internal Structure of Stratiform Clouds," 1957, No. 2. (AD-214935) *
- Kozharin, V. S., "The Water Balance in a Cloud," 1960, No. 6. (ATS, Tr. RJ-2854, Price \$10.60, extra copies \$1.75)
- Krichak, O. G., "Certain Characteristics of Atmospheric Circulation Over the Antarctic," 1958, No. 4. (OTS, Tr. JPRS/NY-L-545)
- Krichak, O. G., "In Antarctica," 1957, No. 6. (OTS, Tr. JPRS/DC-L-902)
- Krichak, O. G., and Leonov, M. P., Review: "Synoptic Meteorology," 1957, No. 7. (OTS, Tr. JPRS/DC-L-1009)
- Krylov, Iu. M., "The Relation Between Steepness and Age of Wind Waves," 1957, No. 1. (AD-220468) *
- Kulik, M. S., "Agrometeorological Forecasts: A Most Important Way of Serving Agriculture," 1960, No. 6. (OTS, Tr. JPRS 4025)
- Kurasima, A., "Study of Soviet Meteorology in Japan," 1958, No. 4. (OTS, Tr. JPRS NY-L-539)
- Kurilova, Yu. V., and Khachatryan, S. P., "The Structure of Atmospheric Turbulence According to Data From High-Speed Aircraft," 1959, No. 8. (AD-236580) * (OTS, Tr. JPRS/L-1126-N)
- Kushkin, P. K., et al., "Numerical Forecasting of Humidity, Cloudiness and Precipitation by Means of a Computer," 1960, No. 12.

METEOROLOGIJA I GIDROLOGIJA (Cont'd)

- Kuznetsov, A. I., "Determination of Sludge Ice Density," 1959, No. 2. (AD-235828)*
- Kuznetsov, G. I., "The All-Union Conference on Atmospheric Ozone," 1960, No. 2.
(OTS, Tr. PB 131632-115)
- Kuznetsov, G. I., "The Problem of Ozone," 1959, No. 4. (AD-236575) * (OTS, Tr. JPRS/L-1088-N)
- Kvaratsheilya, I. F., "Properties of the Changes With Altitude of the Yearly Amplitudes of Air Temperatures Over the Southern Regions of the USSR," 1958, No. 4. (OTS, Tr. JPRS/L-543-N)
- Lagranzh, R. V., "On the Preciseness of the Calculation of Winter Precipitation in the Arctic Region," 1960, No. 10. (OTS, Tr. JPRS 7470)
- Lavrov, V. V., "The Question of Underwater Ice Formation," 1957, No. 5. (AD-227429)*
- Lebedeva, N. V., et al., "The Catastrophic Torrential Downpour at Nikolayev," 1957, No. 1. (AD-215676) *
- Leonov, M. P., "Synoptic-Aerological Investigation of Atmospheric Fronts," 1957, No. 4. (AD-245759) *
- Liser, I. Ia., "Initial Growth of Ice, and Underice Sludge," 1958, No. 11. (AD-236574) *
- Logvinov, K. T., "International Conference on the Problems of Hydrometeorology," 1957, No. 6. (OTS, Tr. JPRS/DC-L-903)
- Luznaya, N. P., "On the Question of the Displacements of Anticyclones," 1959, No. 7. (DSIR, Tr. LLUM.1939)
- Malkina, A. D., "Investigation of the Physico-Chemical Properties of Iodide Particles Which Become Ice Formation Nuclei," 1958, No. 1. * (OTS, Tr. JPRS-1351-N)
- Mamakin, V. N., "The Richardson Number as a Function of Altitude," 1959, No. 7. (AD-245755) *
- Mashkovich, S. A., "All Union Conference of the Theory of Pressure Variations and the Processes of Cyclone and Anticyclone Genesis," 1959, No. 3. (AD-246343) * (OTS, Tr. JPRS/L-1057-N)
- Mashkovich, S. A., "Forecasting Surface Pressure With the Aid of High-Speed Electronic Computers," 1957, No. 1. (PS)
- Matveyev, L. T., and Zyabrikov, V. A., "Qualitative Analysis of Conditions in the Formation of Vortices in the Atmosphere," 1958, No. 7. (OTS, Tr. JPRS 678-D, Price \$0.50)

METEOROLOGIJA I HIDROLOGIJA (Cont'd)

- Matveyev, L. M., "On the Theory of the Formation of Clouds and Aircraft Vapor Trails Under the Influence of Mixing," 1959, No. 3. (OTS, Tr. JPRS/L-1052-N)
- Mazin, I. P., "On the Icing of Jet Aircraft," 1957, No. 4. * (DT)
- Mertsalov, A. N., "Air Cooling and Condensation During Heat Convection," 1959, No. 11.
- Mertsalov, A. N., "Nomogram for Determining Divergence and Vortex," 1958, No. 2. (OTS, Tr. JPRS/NY-L-464)
- Mertsalov, A. N., "The Question of Diurnal Pressure Variations," 1956, No. 3.
- Mertsalov, A. N., "The Question of the Interconnection Between Wind Divergence, Change of Vorticity and Pressure Change," 1959, No. 4. (AD-238326) *
- Metveyev, L. T., and Zyabrikov, V. A., "Qualitative Analysis of Conditions in the Formation of Vortices in the Atmosphere," 1958, No. 7. (OTS, Price \$0.50)
- Morskoy, G. I., "Experimental Forecast of the Monthly Mean Height Values for 500-mb Charts," 1960, No. 10. (OTS, Tr. JPRS 7468)
- Muchnik, V. M., "Certain Problems in Forecasting Thunderstorms," 1956, No. 3. (SLATC, Price \$1.80)
- Muchnik, V. M., "The Connection Between Thunderstorm Formation and the Intensity of Precipitation," 1957, No. 9. (AD-236564) *
- Muchnik, V. M., "Measuring the Intensity of Precipitation by Radar," 1958, No. 7. (AD-253481) *
- Muchnik, V. M., "The Rain Increase Immediately After Discharges," 1949, No. 3. (SLATC, Price \$1.80)
- Musaelian, Sh. A., and Kheifets, Ia. M., "Experiment in Employing the Electronic Computer Pogoda Weather in Forecasting the Mean Monthly Air Temperature Anomaly," 1958, Nos. 2-3. (AD-211962) *
- Mezhikhovskiy, R. A., "On the Problem of Preparing Hydrological Forecasts for Unexplored Rivers," 1957, No. 7. (OTS, Tr. JPRS/DC-L-1004)
- Nikandrov, V. Ya., "Fight Against Hail Damage in Italy," 1960, No. 4. * (OTS, Tr. JPRS 2753)
- Nikitin, I. S., "The Radar Method of Studying Sea Currents," 1957, No. 4. (AD-253553) *
- Ogneva, T. A., "On the Progress-Report Session of the Scientific Council of the Main Geophysical Observatory (imeni A. I. Vovseykov)," 1959, No. 5. (OTS, Tr. JPRS/L-1077-N)

METEOROLOGIJA I HIDROLOGIJA (Cont'd)

- Orlova, Ye. M., "Nonperiodic Oscillations of the Altitude of the Tropopause in Connection With Synoptic Processes," 1958, No. 7. (OTS, Tr. JPRS 674-D, Price \$0.50)
- Parchevskiy, V., "Investigation of Thermal Vertical Currents," 1958, No. 5. (OTS, JPRS/L-604-N, Price \$0.50)
- Pastukhova, G. F., "Experience of Long-Range Forecasting of Spring Floods Using Atmospheric Circulation Indices," 1961, No. 2. (AD-226783) *
- Pchelko, I. G., "Concerning the Formation and Evolution of the Summer Stratospheric Anticyclone in the Northern Hemisphere," 1959, No. 12. (OTS, Tr. JPRS 2658)
- Peryshkin, I. N., "A Tornado in White Russia," 1957, No. 5. (AD-217703) *
- Peshkova, I. I., "The Question of the Role of Ageostrophic Wind Deviations in Formation of Fields of the Absolute Geopotential," 1959, No. 3. (AD-246218) *
- Petrov, G. N., "Use of the Cartographic Method in Climatology," 1958, No. 1. * (OTS, Tr. JPRS-1351-N)
- Pikazin, Ya. S., and Rybakov, Ye. T., "An 'Alumosilicol' Method of Obtaining Hydrogen," 1960, No. 4. (OTS, Tr. JPRS 2751)
- Pobiyakho, V. A., "Sounding the Atmosphere With the A-22-III Radiosonde," 1959, No. 8. (OTS, Tr. JPRS/L-1127-N)
- Pod', D. A., and Fedulova, M. N., "Recurrence of Planetary High Frontal Zones of Natural Synoptic Periods," 1958, No. 8. (OTS, Tr. JPRS/L-595-N)
- Pogosian, Kh. P., "Features of Atmospheric Circulation in the Antarctic," 1958, No. 8. (OTS, Tr. JPRS/L-594-N)
- Pogosian, Kh. P., and Ugarova, K. F., "The Influence of the Central Asiatic Mountain Massif on the Formation of Jet Streams," 1959, No. 11. (AD-258406) *
- Pogosian, Kh. P., "Seasonal Schemes of General Atmospheric Circulation," 1960, No. 8. (AD-246704) *
- Pogosian, Kh. P., "The Stratospheric Jetstream During the Cold Season," 1959, No. 2. * (OTS, Tr. JPRS/L-1063-NY)
- Pogosian, Kh. P., "The Stratospheric Jetstream in the Warm Season," 1959, No. 7. (AD-245758) * (OTS, Tr. JPRS/L-1144-N)
- Pogosian, Kh. P., "Upper Frontal Zones and Jet Streams in the Atmosphere," 1957, No. 7. (AD-232212) * (OTS, Tr. JPRS/DC-L-1001)
- Polyakova, Ye. A., "Session of the Scientific Council of the Main Geophysical Observatory Imeni Voyeykov on Results of 1957 Work," 1958, No. 6. (OTS, Tr. JPRS/L-653-N)

METEOROLOGIJA I HIDROLOGIJA (Cont'd)

- Ponomarenko, I. N., "Hydrometeorological Service in the People's Republic of Albania," 1957, No. 7. (OTS, Tr. JPRS/DC-L-1006)
- Ponomarenko, I. N., "Scientific Seminar in the Operating Subsections of the Hydrometeorological Service," 1958, No. 3. (OTS, Tr. JPRS/L-491-N)
- Popov, N. I., "On the All-Union Conference on the Ionosphere," 1960, No. 9. * (OTS, Tr. PB 131632-144)
- Popova, T. P., "Peculiarities of Warm Fronts Over European USSR in Winter," 1957, No. 6. (AD-215606) *
- Popova, T. P., "The Role of Vertical Motions in Altering the Temperature Gradient and in Producing Clouds," 1961, No. 1. (OTS, Tr. JPRS 9206)
- Rakipova, L. R., "The Effect of Atomic Explosions on the Atmosphere," 1957, No. 6. (AD-227544) *
- Rakipova, L. R., "Research on the Transfer of Angular Momentum in the Atmosphere," 1958, No. 11. (OTS, Tr. JPRS/L-702-N)
- Reshetov, V. D., "Peculiarities of the Daily Pressure Variation in Cyclones and Anti-Cyclones," 1957, No. 2. (AD-215607) *
- Rozhkov, L. P., "First Results of Working in a New Manner," 1960, No. 2. (OTS, Tr. JPRS 2767)
- Rubinshtein, E. S., "Contribution to the Problem of the Earth's Cold Poles," 1958, No. 12. (DRB)
- Rudnev, G. V., "Conference of the Chiefs of Agricultural Meteorological Stations," 1958, No. 4. (OTS, Tr. JPRS/NY-L-537)
- Rusin, N. P., "Meteorological Regime of Antarctic Oases and Their Effect on the Surrounding Ice Surface," 1958, No. 3. (OTS, JPRS/L-498-N)
- Rutkovskaja, V. A., "The Change in Climate and Climatic Tendencies," 1956, No. 10.*
- Rzheplinskiy, G. V., "Some Characteristics of the Results of Wave Meter Observations in the Ocean," 1958, No. 1. * (OTS, Tr. JPRS-1351-N)
- Sadokov, V. P., "On the Problem of the Movement of Cyclones," 1958, No. 8. (OTS, Tr. JPRS/L-597-N)
- Sagatovskiy, N. V., "A Review of the Poor Quality of Research and Scientific Writing Which Occur in the Thirteenth and Fourteenth Issues, 1958, of Trudy Ukrnigmi' (Works of the Ukrainian Hydrometeorological Scientific Research Institute)," 1959, No. 6. (OTS, Tr. JPRS/L-1906-D)

METEOROLOGIJA I HIDROLOGIJA (Cont'd)

- Semenov, V. G., "The Relationship Between the Advective and Turbulent Components of the Heat Transport in the Atmosphere," 1959, No. 10. (AD-252317) *
- Serova, N. V., "An Investigation of the Heat Regime in Soil During Winter," 1958, No. 2. (USWBL)
- Shabelnikova, M. V., "On the Relationship Between Temperature Gradients in the Region of Jet Stream and the Developments of Cyclones," 1958, No. 5. * (DT)
- Shapaev, V. M., "Daily Variations in the Frequency of Wind Directions on Arctic Islands," 1958, No. 12. (AD-218630) *
- Shapayev, V. M., "Intrazonal Climatic Boundaries in the Territory of the USSR," 1956, No. 5.
- Shashkova, A. I., "Problem of the Prognosis of the Trajectories of Air Particles," 1958, No. 4. (OTS, Tr. JPRS/L-544-N)
- Shcherbakova, L. F., "The Diffusion Hydrometer," 1957, No. 6. (OTS, Tr. JPRS/DC-L-899)
- Shevchenko, P. F., "The Calculation of Saturation With Regard to Ice When Forecasting Radiation Fogs and Cloudiness," 1950, No. 12. (AD-245730) *
- Shishkin, N. S., "The Forecasting of Thunderstorms and Showers by the Slice Method," 1957, No. 8. (ATS, Tr. RJ-1049, Price \$8.65, extra copies \$2.35)
- Shishkov, V. G., "On Certain Regularities in the Development of Atmospheric Processes," 1957, No. 7. (OTS, Tr. JPRS/DC-L-1002)
- Shishkov, Yu. A., "Concerning Normal Linear Correlations of Vectors," 1958, No. 6. (OTS, Tr. AEC/SCL-T-261)
- Shishkova, I. A., "Problem of the Prognosis of the Trajectories of Air Particles," 1958, No. 4. (OTS, Price \$0.50)
- Shmeter, S. M., "Several Characteristics of Turbulence and the Temperature Field Over Mountains," 1960, No. 3. (AD-253482) *
- Shpak, I. S., and Murzin, L. P., "A Squall in the Region of the Tsimla Reservoir /Tsimlianskoe Vodohkraniishche/ on 25 June 1956," 1959, No. 4. (AD-214937) *
- Sin'yan, Yu., "The Problem of the Convection Level," 1959, No. 7. (CSIRO, Tr. 4835)
- Skriptunova, L. I., "The Role of the Surface Heat Balance in the Water Temperature Regime of the Northern Part of the Atlantic Ocean," 1957, No. 7. (AD-236579) *
- Slobodov, N. Ya., "Changes in the Vertical Temperature Gradients and Fluctuations in the Height of the Tropopause," 1959, No. 3. (OTS, Tr. JPRS/L-1954-N)

METEOROLOGIJA I GIDROLOGIJA (Cont'd)

- Smirnova, S., "Appreciation of Parching Weather Over Small Territories," 1958, No. 6. (CSIRO, Tr. 5063)
- Sobolev, L. G., "Hydrometeorological Observations Aboard Ships," 1961, No. 2. (AD-226783) *
- Sokolov, I. F., "A Dust Storm in the Primor'e," 1957, No. 3. (AD-227545) *
- Solonin, S. V., "Use of Extrapolation Formulas for Forecasting Shifts of Baric Centers," 1958, No. 1. * (OTS, Tr. JPRS-1351-N)
- Subbotin, A. I., and Miliukova, O. A., "Investigation of the Effect of Radiation Temperature on Snowmelt in a Field and in a Forest," 1958, No. 12. (AD-245749) *
- Supranovich, T. I., "The Graphic Method of Computing Harmonic Constants From Two Daily Series of Observations," 1957, No. 12. *
- Surazhskiy, D. Ya., "Anemograph M-27," 1958, No. 4. (OTS, Tr. JPRS/NY-L-540)
- Tauber, G. M., and Gushchin, G. P., "Aerometeorological Investigations by the First Soviet Antarctic Expedition 1955-1957," 1957, No. 6. (AD-228035)
- Tsomaya, B. Sh., "Change in the Speed of Retreat of Caucasus Glaciers in Connection With the Warming of the Climate," 1959, No. 10. *
- Tsopikov, Kh. M., Review: "Geodesy," by N. N. Stepanov, 1958, No. 1. * (OTS, Tr. JPRS-1351-N)
- Tsyganov, G. P., "Experience in Meteorological Assistance to the Regional Dispatch Service and Use of the Rapor Radar Station for the Air Weather Station of the Civil Air Fleet (AMSG) at Rostov-on-the-Don," 1957, No. 6. (AD-226730) *
- Tu, Hsin-Yüan, "Solution of the Spatial Problem of the Change in the Geopotential With Time, in which the Substitution of Finite Differences for the Laplacian is Made More Accurate," 1959, No. 1. (AD-232210) *
- Ugreninov, I. T., "The Graphic Method of Forecasting Fog (Short Term)," 1958, No. 12. (AD-236573) *
- Usmanov, R. F., "Vertical Cross Section of the Atmosphere Over the Indian Ocean," 1957, No. 4. (AD-232213) *
- Uspenskiy, B. D., "Method for the Determination of Local Acceleration in Changes of Geopotential Heights of Isobaric Surfaces," 1958, No. 3. (OTS, Tr. JPRS/L-497-N)
- Uspenskiy, B. D., "Forecasting the Evolution of Low-Level Cyclones and Anticyclones," 1961, No. 1. (OTS, Tr. JPRS 9205)

METEOROLOGIJA I GIDROLOGIJA (Cont'd)

- USSR, "Literature on Meteorology and Hydrology in 1956," 1957, No. 6. (OTS, Tr. JPRS/DC-L-901)
- USSR, "Literature on Meteorology and Hydrology in 1956," 1957, No. 7. (OTS, Tr. JPRS/DC-L-1008)
- USSR, "Bibliography of Meteorology and Hydrology for 1957," 1958, No. 2. (OTS, Tr. JPRS/NY-L-465)
- USSR, "Literature on Meteorology and Hydrology During 1957," 1958, No. 3. (OTS, Tr. JPRS/L-495-N)
- USSR, "Literature on Meteorology and Hydrology for 1957," 1958, No. 7. (OTS, Tr. JPRS/680-D)
- USSR, "Literature on Meteorology and Hydrology for 1957," 1958, No. 8. (OTS, Tr. JPRS/L-599-N)
- USSR, "Literature on Meteorology and Hydrology for 1957," 1958, No. 9. (OTS, Tr. JPRS/L-658-N)
- USSR, "Literature on Meteorology and Hydrology for 1957," 1958, No. 11. (OTS, Tr. JPRS/L-1627-D)
- USSR, "Literature on Meteorology, Hydrology and Oceanography for 1958," 1959, No. 2. (OTS, Tr. JPRS/L-1067-N)
- USSR, "Literature on Meteorology, Hydrology and Oceanography for 1958," 1959, No. 3. (OTS, Tr. JPRS/L-1056-N)
- USSR, "Literature on Meteorology, Hydrology and Oceanography for 1958," 1959, No. 4. (OTS, Tr. JPRS/L-1087-N)
- USSR, "Literature on Meteorology, Hydrology and Oceanography for 1958," 1959, No. 7. (OTS, Tr. JPRS/L-1146-N)
- USSR, "Literature on Meteorology, Hydrology and Oceanography for 1958," 1959, No. 8. (OTS, Tr. JPRS/L-1129-N)
- USSR, "Literature on Meteorology, Hydrology and Oceanography in 1958," 1959, No. 12. (OTS, Tr. JPRS 2659)
- USSR, "Literature on Meteorology, Hydrology and Oceanography in 1959," 1960, No. 4. (OTS, Tr. JPRS 2752)
- USSR, "Literature on Meteorology, Hydrology and Oceanography in 1959," 1960, No. 7. (OTS, Tr. JPRS 7258)
- USSR, "Literature on Meteorology, Hydrology and Oceanography in 1959," 1960, No. 10. (OTS, Tr. JPRS 7471)

METEOROLOGIJA I GIDROLOGIJA (Cont'd)

- USSR, "Literature on Meteorology, Hydrology and Oceanography in 1959 (Conclusion)," 1960, No. 12. (OTS, Tr. JPRS 9133)
- USSR, "Literature on Meteorology, Hydrology and Oceanography for the Year 1960," 1961, No. 2. (OTS, Tr. JPRS 9214)
- USSR, "Meteorology," 1960, No. 5. (OTS, Tr. PB 131632-125)
- USSR, "Table of Contents of Meteorologija i Gidrologija," January 1960. *
- USSR, "Transactions of Hydrometeorological Higher Educational Institution in 1958," 1959, No. 12. (OTS, Tr. JPRS 2663)
- USSR, "Transactions of the Scientific Research Institutions of the Hydrometeorological Service in 1959," 1960, No. 2. (OTS, Tr. JPRS 2766)
- USSR, "Transactions of the Scientific Research Institutions of the Hydrometeorological Service During 1959," 1960, No. 5. (OTS, Tr. JPRS 7047)
- USSR, "Transactions of Hydrometeorological High Educational Institutions in 1959," 1960, No. 12. (OTS, Tr. JPRS 9134)
- USSR, "Transactions of Scientific Research Institutions of the Hydrometeorological Service in 1960," 1961, No. 2. (OTS)
- USSR, "Works of the Scientific-Research Institutions of the Hydrometeorological Service During 1957," 1958, No. 5. (OTS, Tr. JPRS/L-608-N)
- USSR, "Works of the Scientific-Research Institutions of the Hydrometeorological Service During 1957," 1958, No. 6. (OTS, Tr. JPRS/L-652-N)
- USSR, "Works of the Hydrometeorological Service," 1960, No. 12. (OTS, Tr. JPRS-9135)
- Vapnyar, D. U., and Pokudov, V. V., "On the Project for Improving the Climate of Primorskiy Kray," 1961, No. 3. (OTS)
- Vetlov, I. P., "Method for the Determination of Local Pressure Variations From Wind Information," 1959, No. 5. (AD-246661) * (OTS, Tr. JPRS/L-1076-N)
- Vitel's, L. A., "On the Possible Cause of Changes in the Sun-Atmosphere Relationship," 1960, No. 7. (OTS, Tr. JPRS 5913)
- Vlasova, S. V., and Kisin, I. M., "An Experiment Using Motion Pictures in Aerial Reconnaissance of a Snow Cover," 1959, No. 8. (AD-246341) *

METEOROLOGIJA I GIDROLOGIJA (Cont'd)

- Voronova, N. V., "Use of Electrodynamical Analogy to Calculate Thermal Intensification of Wind," 1959, No. 4. (AD-238329) *
- Yakovlev, V. I., "An Analytical Method of Processing the Data of a Drifting Automatic Radio-Meteorological Station," 1959, No. 7. (OTS, Tr. JPRS/L-1145-N)
- Yelovskikh, M. P., and Kondrat'yev, K. Ya., "Radiometer for Measuring the Intensity of Heat Radiation of the Atmosphere and Its Comparison With the Pyrgeometer," 1957, No. 7. (OTS, Tr. JPRS/DC-L-1005)
- Yepiat'yev, M. N., "Fog Diagnosis and Forecast," 1958, No. 6. (OTS, Tr. JPRS/L-651-N)
- Yevseyev, P. K., "Distribution of Showers and Steady Rainfall on the Territory of the USSR," 1958, No. 3. (OTS, Tr. JPRS/L-499-N)
- Zalogin, B. S., and Edel'man, M. S., "Use of the Bathythermograph in an Arctic Sea," 1959, No. 4. (AD-236577) *
- Zamorskiy, A. D., "Ultra-Cirrus Clouds," 1960, No. 4. (AD-253560) *
- Zavarina, M. V., and Iudin, M. I., "An Accurate Definition and Use of the Richardson Number for Identification of the Zones of Aircraft Bumpiness," 1960, No. 2. (AD-258408) *
- Zhavoronkina, T. K., "The Chemical Composition of Atmospheric Precipitation," 1958, No. 9. (OTS, Tr. JPRS/L-657-N)
- Zolotukhin, A. A., "Tasks of the Hydrometeorological Service in the Light of the 21st Session of the Communist Party," 1959, No. 4. (OTS, Tr. JPRS/L-1080-N)
- Zubov, N. N., "The Effect of Pressure Topography on Sea Level and on Vergence Phenomena," 1959, No. 6. (AD-236567) *
- Zubov, N. N., "The Maximum Thickness of Sea and Land Ice," 1959, No. 2. (AD-235812)*
- Zubyan, G. D., "On the Inter-Latitudinal Exchange of Warm and Cold Air Masses in the Stratosphere in Winter," 1959, No. 1. * (DT, Met. Transl. No. 4, 1960)
- Zverev, N. I., Ped', D. A., "Determination of Analogy Between the Fields of Meteorological Elements by Means of the Electronic Computer 'Pogoda'," 1960, No. 10. (OTS, Tr. JPRS 7469)
- Zverev, N. I., "Progress-Report Session of the Scientific Council of the Central Institute of Forecasts," 1959, No. 5. (OTS, Tr. JPRS/L-1079-N)

METEOROLOGIIA I GIDROLOGIIA (Cont'd)

Selected Articles 1957, No. 11. (AD-226783) * Contents:

Budyko, M. I., "Meteorological Research in the USSR."

Golyshhev, G. I., "Advances in Soviet Aerology."

Kashin, K. I., "The Development of Synoptic Meteorology Over the Past Forty Years."

Selected Articles, 1961, No. 2. (OTS, Tr. JPRS 9214) Contents:

Pastukhova, G. F., "Experience of Long-Range Forecasting of Spring Floods Using Atmospheric Circulation Indices."

Sobolev, L. G., "Hydrometeorological Observations Aboard Ships."

USSR, "Literature on Meteorology, Hydrology and Oceanography for the Year 1960."

METEOROLOGICA SI HYDROLOGIA

Vancea, N., "Artificial Precipitations," Vol. II, No. 2, 1957. (OTS, Tr. JPRS/DC-L-967)

Vancea, N., "The International Geophysical Year and the Tasks of the General Directorate of Hydrometeorology," Vol. II, No. 2, 1957. (OTS, Tr. JPRS/DC-L-966)

METEOROLOGISCHE ABHANDLUNGEN (INSTITUT FÜR METEOROLOGIE UND GEOPHYSIK DER FREIEN UNIVERSITÄT, BERLIN)

Hennig, Horst, "Forty-Year Mean Monthly 850, 700 and 300-mb Contours Over the Northern Hemisphere for the Period 1900-1939," Vol. 4, No. 3, 1958. (AD-215677) *

Mironovitch, V., and Viurt, R., "Interruptions of Atmospheric Zonal Flow in Western Europe and Its Relationship to the Solar Activity," Vol. 7, No. 3, 1958. *

METEOROLOGISCHE RUNDSCHAU

Bary de E., and Möller, F., "Height Distribution of Clouds in Different Weather Situations," Vol. 9, Nos. 7-8, 1956. (USWBL)

Essenwanger, O., and Holzapfel, R., "Tentative Interpretation of the Air Movement Over Central Europe," Vol. 10, 1957. (OTS, Tr. AEC/SCL-T-205)

Faust, Heinrich, "The Jet Streams as Phenomena of Null Layer," Vol. 7, 1954. (AD-218731) * (PS)

METEOROLOGISCHE HUNDSCHAU (Cont'd)

- Flohn, H., and Hofmann, A., "Methods of Medium-Range and Long-Range Forecasting and the Problems of Their Future Development," No. 9, 1956. (AD-217702) * (PS)
- Hollmann, G., "The Null Layer Effect and the Jet Stream," Vol. 7, Nos. 9/10, 1954. (PS)
- Neuwirth, R., "Some Results of Investigations in Air Chemistry in Connection With Atmospheric Turbulence," Vol. 11, No. 5, 1958. (AD-237678) * (TILS, Tr. 5005)
- Regula, W., "A Scale for Measuring Advection," Vol. 5, Nos. 3-4, 1952. *
- Reiter, Reinhold, "The Behavior of Atmospheric-Electric Values During Precipitation at Different Altitudes From a Synoptic Point of View," Vol. 10, No. 2, 1957.
- Schmidt-Lamberg, H., "Photography and Weather," Vol. 10, No. 5, 1957. (OTS, Tr. AEC/SCL-T-210)
- Trenkle, H., "The Zonal Wind Component in the Atlantic-European Sector as a Function of Brief Fluctuations of the Solar Activity," Vol. 10, No. 6, 1957. (OTS, Tr. AEC/SCL-T-230)
- Trenkle, H., "Zonal Wind Component in the Atlantic-European Sector as Influenced by Short-Scale Fluctuations in Solar Activity," Vol. 10, No. 1, Jan/Feb 1957.
- Trienes, H., "Wind Shelter Hedges in the Wind Tunnel," Vol. 10, No. 3, 1957. (OTS, Tr. AEC/UCRL-608 (L)).

METEOROLOGY AND STATISTICS (Japan)

- Furuhata, Tsuneo, "On the New Data Processing Machine," Vol. 10, No. 1, 1959.

METEOROLOGICKE ZPRAVY

- Brandejs, S., "The Balance Equation and Its Use in Numerical Forecasting of Baric Fields," No. 3, 1958. (OTS, Tr. JPRS/L-1449-D)
- Drogaitsev, D. A., "Long Range Prognosis of Precipitation in Czechoslovakia," No. 4-5, 1958. (OTS, Tr. JPRS/L-1691-D)
- Petrovic, P., "Czechoslovak Study of the Dependence of the Albedo on the Height of the Sun and on Cloudiness," Vol. 13, No. 6, 1960. (OTS, Tr. JPRS 9357)

METEOROLOGISCHE ZEITSCHRIFT

- Krustanov, L., "Contribution to the Theory of Drop and Crystal Formation in the Atmosphere," Vol. 58, No. 2, 1941. (USWBL)
- Letzmann, J., "Cumulus Pulsations," Vol. 47, 1930. (AD-218215) *
- Schmauss, A., "The Temperature Effect of Precipitation," Vol. 39, No. 8, 1922. (PS)

MEZHDUNARODNIY GEOFIZICHESKIY GOD. INFORMatsIONNY BYULLETIN

Dreyer, A. A., "Measurements of Wind-Raised Waves During the Second Voyage of the Complex Antarctic Expedition," No. 7, 1959. (OTS, Tr. JPRS/L-1166-N)

USSR, "In the Soviet IGY Committee," No. 5, 1958. (OTS, Tr. JPRS 454-D)

USSR, "Information of the Soviet Committee of the IGY on the Fulfillment of the Program for Upper Atmosphere Rocket Research During the Main IGY Period (1957-1958)," No. 8, 1960. (OTS, Tr. JPRS 9222)

Zabirov, R. D., "The Present State of Central Asian Glaciers," No. 5, 1958. (OTS, Tr. JPRS 454-D)

Selected Articles, No. 1, 1958.* (OTS, Tr. JPRS 852-D)

Contents:

Eygenson, M. S., "Contemporary Phase of Solar Activity, Its Probable Future Secular Course and Geophysical Consequences," pp. 90-96.

Eygenson, M. S., "On Solar Control of the Rotary Motion of the Earth," pp. 16-37.

Lebedev, T. S., and Sollogub, V. B., "Investigations in the Ukraine According to the IGY Program," pp. 3-6.

Prikhotko, G. F., et al., "Results of Meteorological and Actinometric Observations on Bagrinova Gora (Kiev) During the Latter Half of 1957," pp. 104-111.

Tolstov, V. V., and Bondar, B. G., "Measurement of the Drift Velocity of Ionization Heterogeneities (Winds) in the F Ionosphere Region," pp. 43-50.

Yakovkin, A. A., "Non-Uniformity of the Earth's Rotation and Ways of Studying It," pp. 7-15.

MIKROBIOLOGIYA

Vlodavets, V. V., and MATS, L. I., "Characteristics of Air-Borne Microflora in the Atmosphere of the City of Moscow, Taking Into Account the Influence of Meteorological Factors," Vol. 28, No. 4, 1959. (USDA)

MITTEILUNG DER UNIVERSITAETS-STERNWARTE BONN

Priester, W., and Martin, H. A., "Solar and Diurnal Effects in the Upper Atmosphere From Observations of Artificial Earth Satellites," No. 29, 1960. (AD-241642) * (MA, Tr. 901)

MITTELUNGEN DER STERNWARTE DER UNGARISCHEN AKADEMIE DER WISSENSCHAFTEN

Detre, L., "Report on Optical Observations on the Occasion of the Landing of the Soviet Moon Probe Lunik II," No. 45, 1960. (AD-248602) *

MONATSHEFTE FUER MATHEMATIK UND PHYSIK

Zindler, K., "Convex Images," Vol. 31, 1931. (PS)

MORSKOI FLOT

Dralkin, A., "Drift of the Station 'North Pole' in the Polar Sector of the Central Polar Basin," No. 6, 1959. *

Girs, A., "Long Range Weather Forecasts for the Arctic and the Method of Their Formulation," No. 3, 1959. *

Ryshov, V., "Long Range Weather Forecasts for the Arctic and the Method of Their Formulation," No. 3, 1959. *

Sychev, K. A., "Three Years of Drift of the Floating Ice Island North Pole-6," Vol. 19, No. 4, 1959. (AD-236581) *

Tyshov, V., "Long Range Weather Forecasts for the Arctic and the Method of Their Formulation," No. 12, 1957.

MOSKVA

Belotserkovskiy, V., "Three Days in the Flight With Clouds," No. 9, 1958. (OTS, Tr. JPRS 2412)

NACHRICHTENTECHNIK

Nann, W., "Climatic Strain on Communication Equipment," No. 3, 1955.

NATURWISSENSCHAFTEN

Muhleisen, R., "Electric Charges on Condensation Nuclei During Evaporation and Condensation," Vol. 45, No. 2, 1958. (AD-236568) *

Munnich, K. O., and Vogel, J. C., "Radioactive Carbon in the Atmosphere Produced by Atomic Explosions," Vol. 45, 1958. (OTS, Tr. AEC-3500)

Schumann, G., "Seasonal Variation of Stratospheric Fallout Components," Vol. 47, 1960. (OTS, Tr. AEC-4016)

NAUK DOKLADY VYSSHEY SHKOLY

Zemtsov, A. A., "Distribution of Perennially Frozen Rocks in Western Siberia," No. 3, Jul/Sep 1958. (OTS, Tr. JPRS/L-1699-D)

NAUKA I ZHIZN'

[Anon]: Abstract: "Salts Are Being Lost Into Space," No. 1, 1960. * (OTS, Tr. PB 131632-129)

Danilan, B. S., "Model of the Upper Atmosphere," No. 5, 1959. *

Myakishev, G. Ya., "Artificial Precipitation," Vol. 25, No. 4, 1958. (SLATC, Price \$1.80)

Shcherbakov, D. I., "The First International Oceanographical Congress (New York, September 1959)," No. 2, 1960. (DSIR, Tr. 640)

NHAN DAN (Hanoi)

Nguyen, Xien, "Relationship Between Rainfall in Third Quarter of 1958 and Drought Prevention Programs in North Vietnam," 17 December 1958. (OTS, Tr. JPRS/L-1540-D)

NIPPON

[Japan]: "Deplorable Typhoon Observation Network," November 1960. *

PEKING JEN MIN JIN PAO

Chao Chiu-Chang, "New China's Meteorological Science Making Great Strides Forward," 14 September 1959. *

PHILIPS TECHNICAL REVIEW (Netherlands)

Hauer, A., and Tol, M. van, "A Radio Sonde for Meteorological Observations," April-May 1954. *

POCHVOVEDENIE

Abramova, M. N., et al., "Evaporation of Suspended Water," No. 2, 1956. (SLATC, Tr. R-3908)

POLARFORSCHUNG

Regele, Oskar, "Contributions to the History of the First International Polar Year in 1882-83," Ser. 3, Vol. 22, Nos. 1-2, 1952. (PS)

"
PRAGER GEOPHYSIKALISCHE STUDIEN

Pollak, L. W., "Characteristics of the Atmospheric Pressure Frequency Curves and Generalized Isobars in Europe," Vol. 12, No. 6, 1927.

30 September 1961

AWSP O-15
Vol. II

PRAKTIKA AKADEMIA ATHENON

Kephalas, A., "Rainfall Distribution on the Western and Southern Slopes of Central Greece, the Peloponnesus and the Islands of Cephalonia and Zante," No. 3, 1928. (PS)

Kephalas, A., "Rainfall Distribution on Southeast Central Greece and the Peloponnesus," No. 4, 1929. (PS)

Kephalas, A., "Rainfall Distribution in Northwestern Greece," no. 25, 1950. (PS)

PRAKTICKY LEKAR

Matousek, Jiri, and Barcal, Rudolf, "The Current State and Problems of Czechoslovak Medical Biometeorology," Vol. 41, No. 2, 1961. (OTS, Tr. JPRS)

PRAVDA

[Anon]: "Details on Sputnik III," 18 May 1958. (OTS, Tr. PB 131632-17)

[Anon]: "The Second Soviet Artificial Earth Satellite," 10 October and 18 November 1957. (MA, Tr. RAE-722)

[Anon]: "The Third Soviet Artificial Earth Satellite," No. 138, 18 May 1958. *

[Anon]: "The Universe Discloses Its Secrets, Investigation of Cosmic Space by Means of Rockets and Satellites," 15 July 1959. (AD-226312) * (OTS, Tr. PB 131632-79)

Burkhanov, V. F., "Scientific Research Work in the Central Arctic," No. 96 (13394), 6 April 1955.

Iur'ev, A., "Secret of the Burning Ball," 30 October 1960. (AD-251773) * (FTT)

Krasovskii, V. I., "The Upper Atmosphere and Its Investigation With the Aid of an Artificial Earth Satellite," Oct/Nov 1957. (AD-235829) *

Mikhaylov, A., "The Reverse Side of the Moon," 16 November 1960. (AD-258839) (TIC, Tr. MGL-853)

Nesmeyanov, A. N., "An Outstanding Contribution of the Soviet Scientists to Cosmic Research," March 29, 1959. *

Shklovskiy, I., "The Earth's Corona," 25 May 1960. * (OTS, Tr. PB 131632-126)

Treshnikov, A. F., "Into the Polar Night. A Letter from the Scientific Drifting Station 'North Pole-3'," No. 283 (13216), 10 October 1954. *

USSR, "At the Arctic Drifting Stations," No. 79 (14108), 20 March 1957. *

PRAVDA (Cont'd)

USSR, "At the Drifting Scientific Station," No. 237 (13170), 25 August 1954. *

USSR, "In the Presidium of the Academy of Sciences of the USSR," No. 119 (13052), 29 April 1954. *

USSR, Summary: "Scientific Research Data Obtained by the Third Soviet Artificial Earth Satellite," No. 278, 5 October 1958. *

Vavilov, V., "High Latitude Flyers," No. 171 (13104), 20 June 1954. *

Vavilov, V., and Denisov, N., "Our Flyers Storm the Stratosphere," No. 200, 19 July 1959.

Vernov, S. N., and Chudakov, A., "New Factors in the Study of Cosmic Rays," 6 March 1959. *

Selected Articles, Oct/Nov 1957. (AD-159705) * (MA, Tr. RAE-722)

[Anon]: "The Second Soviet Artificial Earth Satellite," pp. 2-4

Dolginov, S., "Investigation of the Magnetic Field of the Earth With the Aid of Satellites," pp. 14-15.

Krasovskii, V. I., "The Upper Atmosphere and Its Investigation With the Aid of an Artificial Earth Satellite," pp. 12-14.

PRIBOROSTROYENIYE

Reyfer, A. B., "Hydrometeorological Instrument Building," No. 4, 1959. (OTS, Tr. PB 131632-73)

PRIRODA

[Anon]: "Can Climate Be Changed?" No. 2, 1960. * (TILS, Tr. DSI-664)

[Anon]: "Energy of the Upper Atmosphere," Vol. 48, No. 9, 1959.

Bogorov, V. G., "On the 'Vityaz' in the Central Part of the Pacific Ocean," Vol. 47, No. 8, 1958. * (TILS, Tr. DSI-489)

Burkhanov, V. F., "Soviet Explorations of the Arctic," Vol. 46, No. 5, 1957. (DRB, Tr. 265R)

Chao Chiu-Chang, "Meteorology and Seismology in China," Vol. 39, No. 10, 1950. * (OTS, Tr. 60-11-508)

Chirvinsky, P. N., "The First Observers of Ball Lightnings," Vol. 43, No. 8, 1954. (OTS, AEC/SCL-T-233)

PRIRODA (Cont'd)

- Drogaitsev, D. F., "Will the North Get Warmer?" No. 6, 1960. *
- Eygenson, M. S., "The Sun-Troposphere Problem," Vol. 33, No. 1, 1944. *
- Fedorov, Ye. K., "Investigation of the Upper Layers of the Atmosphere by Means of Rockets and Artificial Satellites," Vol. 46, No. 6, 1957. (SLATC, Price \$2.70)
- Fedorovich, B. A., "Aurora in China," Vol. 49, No. 2, 1960. (OTS, Tr. PB 131632-123)
- Gordiyenko, P. A., "Arctic Sea Ice Research," No. 9, 1958. (AD-211787) *
- Imshenetskiy, A. A., "Life at High Temperatures," Vol. 49, No. 8, 1960. (OTS, Tr. JPRS 7349)
- Imyanitov, I. M., "On the Length of Lightning," Vol. 49, No. 7, 1960. * (OTS, Tr. PB 131632-142)
- Kazachevskiy, V. M., and Kharitonov, A. V., "The Earth's Reflecting Power," Vol. 49, 1960. * (OTS, Tr. PB 131632-130)
- Kes', A. S., "Fluctuation of the Aral Sea Level," Vol. 47, No. 1, 1958. (OTS, Tr. JPRS/NY-L-342)
- Khrgian, A. Kh., "Large Explosions and Atmospheric Effects," No. 3, 1957. *
- Kogan-Beletskiy, G. I., "On the Question of the Nature of Ball Lightning," No. 4, 1957. (AD-228862) * (FTT)
- Kolobkov, N. V., "Solar Activity — Weather — Climate," No. 8, 1960. (OTS, Tr. PB 131632-143)
- Korets, M. A., "Certain Results in the Study of the Upper Layers of the Atmosphere and Cosmic Space," No. 7, 1959. * (OTS, Tr. PB 131632-80)
- Korol'kov, D. V., and Soboleva, N. S., "New Information on Radio Emission From Sunspots," No. 1, 1959. (AD-204502) * (DRB, Tr. 286R)
- Kotlyakov, V. M., "Snow Collapse in Antarctica," No. 3, 1960.
- Kozyrev, N. A., "Volcanic Activity on the Moon," No. 3, 1959. * (OTS, Tr. PB 131632-63)
- Krasovskiy, V. I., "First Result of Upper Atmosphere Observations," No. 12, 1957. (SML)
- Krasovskiy, V. I., "Upper-Atmosphere Investigations Using the Third Artificial Earth Satellite," No. 12, 1958. (AD-235829) *
- Kurt, V. L., "An Artificial Sodium Comet," No. 5, May 1959. *

PRIRODA (Cont'd)

Melikov, K. M., and Byubov, A. D., Abstract: "Black Snow," No. 2, 1960. (OTS, Tr. PB 131632-123)

Melnikov, O. A., "Investigations of the Ultraviolet Region of Solar Spectrum," No. 6, 1959. *

Peschanskiy, I. S., "Sun and Ice — New Methods of Speeding Up the Thaw," 7 July 1960. (DRB)

Svatkov, N. M., "The Glaciers of Novaya Zemlya," No. 3, 1960. (OTS, Tr. PB 131632-119)

Timofeev, V. T., "The Annual Water Balance of the Arctic Ocean," No. 7, 1956. (AD-236561) *

Vorob'yev, A. G., "Jet Streams," Vol. 8, No. 8, 1959. (OTS, Tr. JPRS 776-D)

PRIRODA I SEL'SKOYE KHOZ VOLGO-URAL'SKOGO REZHDURECH'YA

Buyanovskiy, M. S., et al., "Physical Features and Hydrography," Vol. IX, 1956.

PROBLEMY ARKTIKI

Andreeva, N. N., and Piatnenkov, B. A., "Certain Characteristics of the Radiation Balance in the Central Arctic," No. 7, 1959. (AD-248327) *

Antonov, V. S., "The Principal Causes of Fluctuations in Ice Conditions of the Arctic Seas," No. 1, 1957. * (Navy 2205/HO-65)

Baskakov, G. A., and Kudriatsev, N. F., "Long Service Independent Automatic Stations for Observations of Currents in the Open Sea," No. 2, 1957. (AD-245750) *

Bogorodskii, V. V., "The Ultrasonic Method of Determining Ice Thickness," No. 4, 1958. (AD-220622) *

Chaplygin, E. I., "The Waters of the East Greenland Current," No. 6, 1959. (AD-253556) *

Demin, I. D., "The Influence of the Resolution of a Radar Station on the Accuracy of Determination of Ice Concentration," No. 3, 1958. (AD-220467) *

Denisov, A. S., "Causes of Variation in the Water Temperature of the Nordkapp Current," No. 5, 1958. (AD-253557) *

Dolgin, I. M., and Timofeev, V. T., "Scientific Inspection of the Drifting Stations and Observatories During 1956," No. 4, 1958. (AD-226729) *

Fel'dshtein, Ya. I., "Geographic Distribution of Aurora in the Western Part of the Soviet Arctic," No. 4, 1958. (DRB)

PROBLEMY ARKTIKI (Cont'd)

- Frolov, V. V., "Recent Investigations in the Soviet Arctic," No. 2, 1957. (AD-235827) *
- Gudkovich, Z. M., "Studying the Non-Wind Component of Ice Drift," No. 1, 1957. * (Navy 2202/HO-47)
- Iakovlev, G. N., "Thermal Balance of an Ice Cover of the Central Arctic," No. 5, 1958. (AD-252323) *
- Iakovlev, G. N., "Turbulent Heat Exchange of the Ice Cover With the Atmosphere in the Central Arctic," No. 2, 1957. (AD-232211) *
- Isayev, S. I., "The Diurnal Periodicity of Aurora Within the Maximum-Frequency Zone," No. 9, 1940. (DRB, Tr. 330R)
- Ivanov, V. M., "The Hydrometeorological Regime of the Northern Part of the Atlantic Ocean," No. 4, 1958. (AD-245746) *
- Kirillov, A. A., "Calculation of Hummocking When Determining the Volume of Ice," No. 2, 1957. (AD-235815) *
- Kupetskiy, V. N., "Deep Atlantic Waters as a Cause of Certain Features of the Polar Climate," No. 6, 1959. (AD-253558) *
- Laktionov, A. F., and Shamot'yev, V. A., "Use of Airplanes for Oceanographic Research in the Arctic," No. 2, 1957. (AD-245761) * (OTS, Tr. 60-11,174)
- Martynov, V. T., "The Appearance of Underwater Landslides on the Echo Tapes," No. 3, 1958. (AD-251860)
- Meilakh, I. G., "The Question of the Penetration of Arctic Ocean Waters Into the Bering Sea," No. 3, 1958. (AD-220624) *
- Milyayev, N. A., "Disturbance of the Magnetic Field in Regions of Operations of Drifting Stations North Pole-3 and North Pole-4," No. 5, 1958. (AD-248328) *
- Mustafin, N. V., "The Ice Floe of Station North Pole-7," No. 5, 1958. (AD-253555) *
- Nikiforov, E. G., "Variations of Ice Concentration in Conjunction With Its Dynamics," No. 2, 1957. (AD-232204) *
- Peschanskiy, I. S., "Some Problems in the Arctic Ice Studies," No. 2, 1957. * (Navy 2139/HO-52)
- Shamont'ev, V. A., "The Oceanographic Expedition to the Greenland Sea on the Diesel-Electric Ship Lena in 1958," No. 6, 1959.
- Shesterikov, N. P., "Preliminary Analysis of Radio Beacon Drift in the Arctic Seas," No. 2, 1957. (AD-245752) *
- Shtokman, V. B., "The Horizontal Expansion of Temperature Anomalies in the Ocean," No. 5, 1950. (AD-226781) *

PROBLEMY ARKTIKI (Cont'd)

- Syshev, K. A., "The Drifting Ice Island of Station North Pole-6," No. 5, 1958. (AD-246342) *
- Sychev, K. A., "366 Days Adrift on a Floating Ice Island," No. 4, 1958. (AD-226729)*
- Timofeev, V. T., "The 'Age' of Atlantic Water in the Arctic Basin," No. 5, 1958. (AD-252320) *
- Timofeev, V. T., "An Approximate Determination of the Heat Balance of Arctic Basin Waters," No. 4, 1958. (AD-227548) *
- Timofeev, V. T., "Atlantic Water in the Arctic Basin," No. 2, 1957. (AD-218216) *
- Treshnikov, A. F., "Surface Waters in the Arctic Basin," No. 7, 1959. (AD-251863) *
- Vize, V. Iu., "The Drift of Buoys in the Arctic Seas," No. 2, 1944. (PS)
- Volkonskiy, Yu. N., "Experience of Using Empirical Functions of Control for Forecasting Tropopause Location," No. 2, 1957. (AD-245732) *
- Voskresenskii, A. I., and Morachevskii, V. G., "The Use of Dry Ice for Dispersing Clouds in the Arctic," No. 2, 1957. (AD-245732) *
- Yakovlev, G. N., "The Turbulent Heat Exchange Between the Ice Cover and the Air in the Central Arctic," No. 2, 1957. (Navy 2339/HO-53)
- Zilius, Valys, "Arctic - Expeditions and Drifting Stations 1956-1958," No. 6, 1959. (AD-246660) *

Selected Articles, No. 4, 1958. (AD-226729) *

Contents:

- Dolgin, I. M., and Timofeev, V. T., "Scientific Inspection of the Drifting Stations and Observatories During 1956."
- Kanaki, V. G., "Expeditions of the Arctic Institute in 1957."
- Nikitin, M. M., "The High-Latitude Aerial Expedition of 1957."
- Petrov, I. G., "The End of the Drift of Station North-Pole-4."
- Sychev, K. A., "366 Days Adrift on a Floating Ice Island."

PROBLEMY ARKTIKI I ANTARKTIKI

Briazgin, N. N., "The Problem of the Albedo of the Surface of Drifting Ice," No. 1, 1959. (AD-248329) *

Doronin, Iu. P., "The Question of Sea Ice Accretion," No. 1, 1959. (AD-245754) *

Iakovlev, G. N., "The Heat Flux of Evaporation From the Surface of the Ice Cover in the Central Arctic," No. 1, 1959. (AD-251866) *

Ianes, A. V., "Calculation of the Heat Fluxes in the Ice Cover," No. 1, 1959. (AD-245739) *

Loshchilov, V. S., "The Use of Aerial Photography in Ice Reconnaissance to Determine the Mean Thickness of the Ice Cover," No. 1, 1959. (AD-252325) *

Maksimov, I. V., "Some Problems of Studying the Perennial Variations of the Total Ice Cover in the Arctic Seas," No. 2, 1960.

Nazintsev, Iu. L., "Experimental Determination of the Specific Heat and Thermometric Conductivity of Sea Ice," No. 1, 1959. (AD-251861) *

Nikitin, M. M., "The 1959 High-Latitude Aerial Expedition," No. 2, 1960. (AD-252327)*

Sychev, K. A., "The Heat Content of Atlantic Waters and the Expenditure of Heat in the Arctic Basin," No. 3, 1960. (AD-253563) *

PROBLEMY SEVERA

Churkina, N. A., "Drift Buoys in the Central Arctic and in the Arctic Seas," No. 1, 1958. (Navy 2761/HO-75)

Drogaitsev, D. A., "Wind Currents in the Arctic Ocean," No. 2, 1958. (HO-67)

Lebedev, V. L., "Classification of Antarctic Icebergs," No. 2, 1958. *

Savel'ev, B. A., "Determination of the Age of Arctic Islands (on the Basis of Foreign Research Data)," No. 1, 1958. (AD-236194) *

USSR, "Ice Drift in the Central Part of the Arctic Ocean," 1958. (Navy 2625/HO-7)

PRZEGLAD GEOFIZYCZNY (D. PRZEGLAD METEOROLOGICZNY I HYDROLOGICZNY) (Warsaw)

Kaczmarek, Z., "Organization of the Hydrological Service and Hydrological Studies in the Soviet Union," No. 1, 1960. (OTS, Tr. JPRS 6420)

Kosibowa, Stefania, "Studies of the Upper Layer of the Earth's Atmosphere," Vol. 1, No. 1, 1956. (USWBL)

PUBLICACIONES, SERVICIO METEOROLOGICO NACIONAL (SPAIN). MEMORIAS

Castans-Camargo, M., "Stationary Waves Over Spain," Ser. A, No. 23, 1954.

QUATERNARY RESEARCH

Yamamoto, Takeo, "Relationship of Jet Stream Secular Variation to Glacier Activity,"
Vol. 1, No. 2, 1958. (DRB, Tr. 67J)

RADIO (Moscow)

Belov, P., Summary: "'Pogoda' in the Service of Weather," No. 10, 1959. *

Rzhiga, O., and Shakhovskoi, A., "Observation of Artificial Earth-Satellite Signals,"
No. 8, 1957. (AD-161861) *

RADIOTEKHNIKA I ELEKTRONIKA

Alpert, Ya. L., and Fligel, D. S., "The Synthesis of Forms of Atmospherics and the
Effective Parameters of the Lower Part of the Ionosphere on Low Frequencies,"
Vol. 4, No. 2, 1959. (SLATC, Price \$2.40)

Fock, V. A., et al., "Radiowave Propagation Along a Tropospheric Waveguide (Duct)
Near the Earth," Vol. 3, No. 12, 1958. (OTS)

Zhevakin, S. A., and Troitskii, V. S., "Absorption of Microwaves in a Laminated
Atmosphere," Vol. 4, No. 1, 1959. * (JTR, Tr. TG 230-T92)

RADIO UND FERNSEHEN

Glöde, Peter, "Radar Echoes From the Aurora Borealis," No. 13, 1959. *

Klinker, L., "The Significance of Artificial Earth Satellites in the Exploration
of the Upper Atmospheric Layers," Vol. VII, No. 24, 1958. *

Krasovskiy, W. I., "Exploration of the Upper Atmosphere With the Help of the Third
Soviet Sputnik," No. 13, 1959. *

Schmelovsky, K. H., "Sun-Flare Effects in the Lower Ionosphere," No. 13, 1959. *

Taubenheim, J., "The Radiation Zone Around the Earth," No. 13, 1959. *

REVISTA TRANSPORTURILOR

Semenescu, M., "Ice on the Rumanian Black Sea Coast," Vol. VII, No. 4, 1960.
(OTS, Tr. JPRS 7390)

RIVISTA DI METEOROLOGIA AERONAUTICA

Bonmartini, Giovanni, "Meteorological Warfare," Vol. 21, No. 2, 1961. *

Fedele, D., and Vittoria, O., "Determination of Chloride Particles in the Atmosphere and Methods of Measurement," Vol. 13, No. 4, 1953. * (TILS, Tr. RAE 525)

Vittori, O., "The Situation of Scientific Meteorology in Italy," Vol. 17, 1957.
(OTS, Tr. AEC/SCL-193)

SCHWEIZER ARCHIV FUR ANGEWANDTE WISSENSCHAFT UND TECHNIK

Greinacher, H., "A Diffusion Hygrometer With Direct Reading," Vol. XX, No. 6, 1954.

SCHWEIZERISCHE BAUZEITUNG

Quervain, M. de, "Grain Size Analysis of Aged Snow by Means of Sedimentation,"
February 1948. (US Bureau of Reclamation, Tr. No. 257)

SCIENTIA SINICA (CHUNG-KUO K'IO-HSUEH)

Chang Ming-Li, "The Structure of the Winter Monsoon and Barometric Field," No. 13,
July 1957. *

SDELOVACI TECHNIKA

[Anon]: "What the Sputniks Told Us About the Highest Atmospheric Layers," No. 6,
1959.

SERVICIO METEOROLOGICO NACIONAL (Argentina)

[Anon]: "A Summary and Analysis of Atmospheric Electric Observations Made at Pilar
During 1924-1936," Ser. B, Sec. 2, Pt. 3, No. 1, 1952.

[Anon]: "A Summary and Analysis of Atmospheric Electric Observations Made at Pilar
During 1937-1950," Ser. B, Sec. 2, Pt. 3, No. 2, 1953.

SHUI-WEN YUEH-K'AN

[China]: "A Decade of Hydrological Forecasting Work," No. 10, 1960. (OTS, Tr.
JPRS 4427)

Yao Hung-Chu, et al., "Forecasting Method for Floes and Freezing in the Yellow River,"
No. 5, 1959. (OTS, Tr. JPRS 7178)

SHUKAN ASAHI

[Japan]: "Typhoon Observation Network Is Weak for Eastern Japan," September 18, 1960. *

SLABOPROUDY OBZOR

[Anon]: "Batteries for Radiosondes," Vol. XIX, No. 12, 1958.

SOKKO JIHO (Japan)

Eizo Maruyama, "Micrometeorology," No. 24, 1957. (FTT, Tr. M-121)

SOVETSKAYA AVIATSIYA

[Anon]: "Aircraft in a Jet Stream," 15 May 1959. (OTS, Tr. JPRS 938-D)

[Anon]: "Descent Through the Clouds From the Given Line," 22 May 1959.

[Anon]: "Preflighting in Frosts and Snow-Storms," 18 February 1959.

[Anon]: "Weather Reconnaissance in Summer," 12 June 1958.

Belousov, V., and Petrov, N., "Weather Service in Fall-Winter Period," 30 October 1959.

Chuykov, V., Summary: "Weather Reconnaissance," 8 October 1959. *

Grinev, P., and Kravchuk, G., Summary: "Weather Reconnaissance by Radar," 7 April 1959. *

Kibardin, Yu., "Dissociation and Ionization of the Air," 27 March 1959. *

Kogan-Beletskiy, G., "About Encounters With Electric Storms and Hail During Flights at High Altitudes," 29 July 1958. *

Kondratyuk, K., "In a Cloudy Sky at Night," 14 June 1959. (OTS, Tr. JPRS 938-D)

Osokin, S., "New Soviet Hydrometeorological Research Vessel MS 'A. I. Voyeykov'," 22 August 1959. *

Sergeyev, M., "Evading Thunderstorms," 19 June 1960. (OTS, Tr. JPRS 3933)

USSR, "Prevention and Removal of Icy Glaze From Airdromes," 12 January 1960.

Varvarov, N., "Sputniks and Weather," 9 February 1960. *

Zhelvakov, Ye., "Descent Through the Clouds From the Given Line," 22 May 1959. *

SOVETSKAYA AVIATSIYA (Cont'd)

Selected Articles, January 1958. *

Most Distant Planets are Not So Far Away, Friends.

Contents:

Gilzin, K. A., "Toward the Other Planets."

Pokrovskiy, G. I., "Let Us Take a Look Into the Future."

Pyshnov, V. S., "Plane and Rocket."

Stanyukovich, K. P., "Before the Assault on the Moon."

Stechkin, B. S., "Soviet Man's Dreams are Practical."

TEION KAGAKU

Yamaji, Kenji, and Daisuke, Kuroiwa, "Visco-Elasticity of Ice in the Temperature Range 0° -100°C," Ser. A, No. 15, 1956. (DRB)

Yamamoto, Takeo, "Long Term Variations of the Jet Stream," No. 27, 1957. (AD-204503) (DRB)

Yamamoto, Takeo, "Secular Variation of Summer Rainfall in the Far East," Vol. 22, No. 2, 1958. (DRB)

TEKNIKA MOLODEZHI

Vernon, S. N., et al., "Comments on Soviet Moon Rockets," No. 10, 1959. *

TEORIYA VEROYATNOSTEY I YEYE PRIMENENIYE

Monin, A. S., "The Structure of Atmospheric Turbulence Theory of Probability and Its Application," Vol. III, No. 3, 1958. (Navy 2017/T-65)

TERMESZETTUDOMANY

[Anon]: "The Possibilities of Meteorological Warfare," Vol. II, No. 2, 1958. (OTS, Tr. JPRS/L-1886-D)

TIDSKRIFT MILITAR HÄLSÖVÄRD (Stockholm)

Wedin, Bertil, "Drifting CBR Cloud Diffusion," No. 85, 1960. *

TI-LI-CHIH-SHIH (Peiping)

Liu Kuang-Wen, "Floods and Flood Control," August 1958. * (OTS, Tr. JPRS 2268)

TI-LI-HSUEH TZU-LIAO (Nanking)

Yang Jen-Chang, "Climatic Condition in the Upper Reaches of the Hei-lung Chiang and the Hu-lun-pei-erh Region," No. 1, 1957. (OTS, Tr. JPRS 837-D)

TRUD

Dobrovitskiy, N., "Mystery of Lightning," No. 293 (12157), 14 December 1960.
(AD-258847) * (TIC, Tr. MCL-936/1) (OTS, Price \$1.10)

TRUDY ARKTICHESKOGO NAUCHNO-ISSLEDOVATEL'SKOGO INSTITUTA

Kalitin, N. N., "The Transparency of Ice to Ultra-Violet Solar Radiation," Vol. 39, 1936. (AD-248543) *

Morachevskii, V. G., and Nikandrov, V. Ya., "The Effectiveness of CO₂ Particles and AgI Smoke in the Dispersal of Low-Lying Supercooled Clouds and Fogs," Vol. 228, No. 1, 1959. (ATS, Tr. RJ-2840, Price \$12.95, extra copies \$2.65)

TRUDY ARKTICHESKOGO I ANTARKTICHESKOGO NAUCHNO-ISSLEDOVATEL'SKOGO INSTITUTA

Aleksandrov, N. N., "Use of Radioactive Isotopes for Determining Atmospheric Turbulence," Vol. 226, 1959. (AD-251867) (OTS, Tr. JPRS 1148-D)

Bespalov, D. R., "The Heat Exchange Between the Atmosphere and the Ocean in the Central Arctic," Vol. 1, 226, 1959. (AD-245745) *

Dergach, A. L., "Microphysical Characteristics of Low Clouds and Fogs," Vol. 228, No. 1, (1959). (ATS, Tr. RJ-1324, Price \$20.75, extra copies \$3.95)

Dergach, A. L., "Results of Research on Frontal Clouds," Vol. 228, No. 1, (1959). (ATS, Tr. RJ-2836, Price \$19.75, extra copies \$4.75)

Dergach, A. L., "The Study of a Cumulo-Nimbus Cloud Without an Anvil," Vol. 228, No. 1, (1959). (ATS, Tr. RJ-2837, Price \$11.50, extra copies \$2.00)

Dolgin, I. M., "The Degree of Heat Transformation Aloft in the Arctic," Vol. 226, 1959. (AD-245742) *

Doronin, Iu. P., "Calculation of Spring Ice Thawing," Vol. 226, 1959. (AD-245738) *

Doronin, Iu. P., "The Thermal Transformation of the Lower Layer of the Atmosphere in the Arctic," Vol. 226, 1959. (AD-238327) (On loan only)

Doronin, Iu. P., "Turbulent Heat Exchange Between an Ice Cover and the Atmosphere," Vol. 226, 1959. (AD-238328) *

TRUDY ARKTICHESKOGO I ANTARKTICHESKOGO NAUCHNO-ISSLEDOVATEL'SKOGO INSTITUTA (Cont'd)

- Gaevskii, V. L., "Certain Features of the Radiation Regime of the Central Arctic," Vol. 226, 1959. (AD-251864) *
- Kucherov, and Sternzat, M. S., "The Apparatus and Method of Investigations at Stations North Pole-4 and North Pole-5," Vol. 226, 1959. (AD-252329) *
- Laikhtman, D. L., et al., "Certain Data on the Heat Conductivity and Thermometric Conductivity of Ice and Snow and a Method of Determination," Vol. 226, 1959. (AD-245740) *
- Laikhtman, D. L., and Doronin, Iu. P., "The Coefficient of Turbulent Exchange in the Sea, and an Estimate of the Heat Flow From Ocean Waters," Vol. 226, 1959. (AD-251862) *
- Laikhtman, D. L., "Several Regularities of the Heat Regime in the Central Arctic," Vol. 226, 1959. (AD-245757) *
- Ledokhovich, A. A., and Zaitsev, V. A., "The SEM-1 Electric Aerometeorograph," Vol. 228, 1959. (AD-245756) *
- Leningrad, M. S., "Calculation of the Longwave Radiation Balance During an Overcast Sky in the Arctic," Vol. 226, 1959. (AD-251865)
- Marshunova, M. S., "Calculation of the Longwave Radiation Balance During an Overcast Sky in the Arctic," Vol. 226, 1959. (AD-251865) *
- Nikandrov, V. Ya., "Some Data on the Water Content of Fogs in the Arctic," Vol. 228, No. 1, 1959. (ATS, Tr. RJ-2842, Price \$6.65, extra copies \$1.25)
- Orlenko, L. P., and Smetannikova, A. V., "The Problem of Calculating the Components of the Heat Balance During the Winter," Vol. 226, 1959. (AD-245753) *
- Ruzin, M. I., "The Wind Drift of Ice in a Heterogeneous Pressure Field," Vol. 226, 1959. (AD-246346) *
- Voskresenskiy, A. I., and Morachevskiy, V. G., "Airplane Apparatus for Modifying Supercooled Clouds and Fogs," Vol. 228, No. 1, 1959.
- Voskresenskiy, A. I., and Morachevskiy, V. G., "Equipment for the Treatment of Supercooled Clouds and Fogs From an Aircraft," Vol. 228, No. 1, 1959. (ATS, Tr. RJ-2843, Price \$12.65, extra copies \$2.30)
- Voskresenskiy, A. I., and Ledokhovich, A. A., "The LO-4 Thermohygrometer," Vol. 228, No. 1, 1959. (AD-252326) *
- Voskresenskiy, A. I., and Chukanin, K. I., "The Meteorological Conditions of Icing in St and Sc Clouds," Vol. 228, No. 1, 1959. (AD-258402) *
- Voskresenskiy, A. I., "Organization and Method in Fog and Cloud Research," Vol. 228, No. 1, 1959. (AD-258403) * (ATS, Tr. RJ-2839, Price \$14.40, extra copies \$2.90)

TRUDY ARKTICHESKOGO I ANTARKTICHESKOGO NAUCHNO-ISSLEDOVATEL'SKOGO INSTITUTA (Cont'd)

Zabrodskii, G. M., and Morachevskii, V. G., "Investigation of Transparency of Clouds and Fogs," Vol. 228, No. 1, 1959. (ATS, Tr. RJ-2841, Price \$26.95, extra copies \$5.90)

Zino'eva, M. M., and Belik, T. A., "The Question of the Wind Drift of Ice," Vol. 226, 1959. (AD-246662) *

TRUDY DAL'NEVOSTOCHNOGO NAUCHNO-ISSLEDOVATEL'SKOGO GIDROMETEOROLOGICHESKOGO INSTITUTA

Sharapov, A. V., "The Question of the Evolution of Typhoons," No. 7, 1959. * (OTS, Tr. JPRS 3963)

Verle, E. K., and Svinukhov, G. V., "Radiation Balance in the Primorskiy Kray Region (Maritime Territory USSR)," Vol. 6, 1958. * (USWBL)

TRUDY GEOFIZICHESKAYA OBSERVATORIIA (TASHKENT)

Ayzenshtat, B. A., "A New Method of Measuring the Radiation Balance," Issue No. 13, 1957. (BMOL)

Yaroslavtsev, I. N., "On Variations of the Monthly and Annual Sums of the Heat Radiation of the Sun, Sky and Earth," Issue No. 13, 1957. (BMOL)

TRUDY GEOFIZICHESKOGO INSTITUTA AKADEMIIA NAUK SSSR

Krechmer, S. I., "Technique of Measuring Micropulsations of Wind, Speed and Temperature in the Atmosphere," No. 24, (151) 1954. * (TIC, Tr. F-TS-9295/V)

Monin, A. S., and Obukov, A. M., "Basic Laws of Turbulent Mixing in the Ground Layer of the Atmosphere," No. 24, (151) 1954. (AD-211788) *

Selected Articles, No. 24, (1951) 1954. * (TIC, Tr. F-TS-9295/V)

Contents:

Krechmer, S. I., "Technique of Measuring Micropulsations of Wind Speed and Temperature in the Atmosphere."

Monin, A. S., and Obukhov, A. M., "Fundamental Regularities of Turbulent Mixing in the Ground Layer of the Atmosphere."

Obukhov, A. M., "A Statistical Description of Continuous Fields."

Yaglom, A. M., "On Allowance for the Time Lag of Meteorological Instruments in a Turbulent Atmosphere."

TRUDY GEOFIZICHESKOGO INSTITUTA, SBORNIK STATEI PO DINAMICHESKOI METEOROLOGIISelected Articles on Dynamic Meteorology, No. 37 (164), 1956, 181 pp. * (CB)

Contents:

Feigel'son, E. M., "The Influence of Clouds on the Atmosphere Heat Balance," pp. 73-104.

Gutman, L. N., "A Theory for Soil Temperature Calculation," pp. 1-57.

Kogan, S. Ya., "On a Method of Calculating the Advective Heat Influx," pp. 155-181.

Malkevich, M. S., "Atmosphere Cooling by Radiational Heat Exchange," pp. 105-119.

Malkevich, M. S., "Theoretical Consideration of the Solar Radiation Absorbed by the Atmosphere for Different Time Intervals," pp. 151-154.

Malkevich, M. S., "The Temporal Change of Air Temperature by Turbulent Mixing and Radiational Heat Exchange," pp. 120-140.

Sarkisyan, A. S., "On the Determination of the Steady Wind Current in a Baroclinic Ocean Layer," pp. 58-72.

TRUDY GLAVNAIA GEOFIZICHESKAIA OBSERVATORIIA (imeni A. I. Voeikova)

Ariel' N. Z., and Kliuchnikova, L. A., "Wind Over a City," Issue No. 94, 1960. * (USWBL); (OTS)

Bakalov, S. A., et al., "Radiation and the Heat Balance of the Earth's Surface in the Arctic," Issue No. 92, 1959. * (USWBL); (OTS)

Bashkorova, G. M., and Krasikov, P. N., "Experiments in Studying Certain Substances as Reagents in Crystallization of Supercooled Fog," Issue No. 72, 1957. (USWBL); (OTS)

Bashkorova, G. M., and Pershina, T. A., "Some Data of Observations on the Forms of Snowflakes," Issue No. 57, (119) 1956. (ATS, Tr. RJ-1322, Price \$14.75, extra copies \$3.95)

Barashkova, E. P., "Certain Regularities in the Regime of Total Radiation," Issue No. 80, 1959. * (USWBL); (OTS)

Barashkova, E. P., "Experiments in Calculating the Daily Totals of Global Radiation According to Standard Observations," Issue No. 80, 1959. * (USWBL); (OTS)

Barashkova, E. P., "Turbulence [Turbidity] of the Atmosphere in Karadag," Issue No. 80, 1959. *

Berlin, I. A., "On the Problem of Studying the 24-hour Course of the Relative Humidity of the Air," Issue No. 86, 1958. * (OTS, Tr. PB 131632-94)

TRUDY GLAVNAIA GEOFIZICHESKAIA OBSERVATORIIA (imeni A. I. Voeikova) (Cont'd)

- Broido, A. G., and Suboch, N. A., "On the Accuracy of an Approximate Method of Calculating Heat Flux in Soil," Issue No. 77, 1958. * (USWBL); (OTS)
- Broido, A. G., and Kozhar, S. L., "The Determination of the Accuracy of the Station Method in Calculating the Thermometric Conductivity of Soil," Issue No. 77, 1958. (USWBL); (OTS)
- Chang Chi-Chia, "Perennial Variation of Certain Meteorological Elements and the Recurrence of Typhoons Over China and Their Connection With Epochal Transformations of W, C, and E Forms," Issue No. 90, 1960. (OTS, Tr. JPRS 9141)
- Chang Chi-Chia, "Perennial Mean Characteristics of Atmospheric Circulation and the Weather Regime Over China During the Summer Months," Issue No. 90, 1960. (OTS, Tr. JPRS 9140)
- Chang Chia-Ch'eng, "Perennial Means Characteristics of Certain Meteorological Elements and the Circulation Over China During the Winter Months," Issue No. 90, 1960. (OTS, Tr. JPRS 9138)
- Dubov, A. S., "Calculation of the Ground Friction in the Prognosis of the Pressure Field Near the Earth," Issue No. 71, 1957. (OTS, Tr. JPRS/NY-L-318)
- Dubov, A. S., and Orlova, L. S., "Results of the Prognosis of Pressure Field Near the Ground and Map of Baric Topography by the Graph-Analytical Method," Issue No. 71, 1957. (OTS, Tr. JPRS/NY-L-316)
- Gandin, L. S., and Soloveichik, R. E., "On the Propagation of Smoke From Factory Stacks," Issue No. 77, 1958. * (OTS)
- Gorbunova, I. G., et al., "Certain Results in Measuring Thermophysical Properties of Soil Under Natural Conditions," Issue No. 77, 1958. * (OTS)
- Grishchenko, D. L., Summary: "Dependence of the Sea Albedo on the Altitude of the Sun and the Agitation of the Sea Surface," 1959. *
- Grishchenko, D. L., "Radiant Energy From the Sun Penetrating Into the Sea," Issue No. 68, 1957. (OTS, Tr. JPRS/NY-L-328)
- Gushchin, G. P., Abstract: "Measurement of Ozone From an Aircraft," Issue No. 93, 1959. (AD-244994) *
- Gushchin, G. P., "Ozone Content in Atmosphere Over the Leningrad Area During Solar Eclipse on June 30, 1954," Issue No. 72, 1957.
- Imyanitov, I. M., and Chuvaev, A. P., "The Basic Processes Leading to Electrification in Thunderclouds," Issue No. 67 (129) 1957. (ATS, Tr. RJ-2861, Price \$15.40, extra copies \$2.55)
- Imyanitov, I. M., and Kolokolov, V. P., "Investigating the Distribution of Induced and Free Electrical Charges on Aircraft Surfaces," 1956. * (TIC, Tr. F-TS-9891/V)

TRUDY GLAVNAIA GEOFIZICHESKAIA OBSERVATORIIA (imeni A. I. Voeikova) (Cont'd)

- Imyanitov, I. M., et al., "An Investigation of Thunderstorms Zones in the Southern Regions of the European U.S.S.R. and the Transcaucasus," Issue No. 67, (129), 1957. (ATS, Tr. RJ-2862, Price \$32.75, extra copies \$10.90)
- Imyanitov, I. M., et al., "Preliminary Data on Experiments for Controlling the Development and the Change in the Electrical State of Strongly Convective Clouds in the Southern Regions of European USSR and in the Transcaucasus," Issue No. 67, (129), 1957. (ATS, Tr. RJ-2859, Price \$33.95, extra copies \$9.75)
- Klyuchnikova, L. A., Abstract: "Advective Condensation Mists Over the Surface of a Snow Cover," Issue No. 77, 1958. (OTS, Tr. PB 131632-73)
- Kolokolov, V. P., "Thunderstorm Activity and the Radar Characteristics of a Cloud," Issue No. 67, (129), 1957. (ATS, Tr. RJ-2852, Price \$4.50, extra copies \$0.75)
- Korchigina, K. K., et al., Abstract: "Distribution of Day and Night Sky Brightness," Issue No. 93, 1959. (AD-244995) *
- Kotov, N. V., "Radar Characteristics of Rainstorms and Thunderstorms," Issue No. 102, 1960. (ATS, Tr. RJ-2831, Price \$41.30, extra copies \$7.85)
- Krasikov, P. N., and Manontov, N. V., "Determining the Sizes of Particles Isomorphous With Ice Used in Experiments on the Phase Transformation of Water," Issue No. 67, (129), 1957. (ATS, Tr. RJ-2855, Price \$14.40, extra copies \$3.45)
- Krasikov, P. N., and Chikirova, G. A., "The Effect of Admixtures of Ammonium Chloride on the Stability of Water Fog," Issue No. 82, 1958. (ATS, Tr. RJ-2856, Price \$10.50, extra copies \$1.80)
- Kucherov, N. V., Abstract: "Device for Measuring Temperature and Humidity Gradients," Issue No. 77, 1958. * (OTS, Tr. PB 131632-73)
- Laikhtman, D. L., and Kliuchnikova, L. A., "The Effect of Advection Upon the Intensity of the Melting Snow," Issue No. 60, (122), 1956. * (USWBL)
- Lappo, T. L., "A Method of Calculating Soil Temperatures Under a Cover of Snow," Issue No. 71, 1957. *
- Makhotkin, L. G., "Change in the Charges on Drops During Evaporation," Issue No. 97, 1960. (ATS, Tr. RJ-2382, Price \$4.25, extra copies \$1.25)
- Makhotkin, L. G., "Regularities in the Change of Scattered Radiation of Cloudless Skies," Issue No. 80, 1959. *
- Nesina, L. V., "Influence of Temperature Stratification on Heat Exchange in Water," Issue No. 59, 1956.
- Nikandrov, V. Ya., "Choosing the Optimum Amount of Solid Carbon Dioxide for Modifying a Cloud," Issue No. 67, (129), 1957. (ATS, Tr. RJ-2857, Price \$18.50, extra copies \$2.55)

TRUDY GLAVNAIA GEOFIZICHESKAIA OBSERVATORIIA (imeni A. I. Voeikova) (Cont'd)

- Nikandrova, G. T., and Khimach, M. A., "Characteristics of the Microstructure of Supercooled Clouds," Issue No. 102, 1960. (ATS, Tr. RJ-2851, Price \$11.85, extra copies \$2.10)
- Nikandrova, G. T., and Chuvaev, A. P., "Investigation of the Transition in Cloud Microstructure Under Modification by Solid Carbon Dioxide," Issue No. 67, (129), 1957. (ATS, Tr. RJ-2858, Price \$14.50, extra copies \$3.40)
- Orlenko, L. R., "Calculation of the Diurnal Variation of Shortwave Radiation on Clear Days," Issue No. 60, (122), 1956.
- Pastukh, V. P., and Sokhrina, R. F., "Hail in the USSR," Issue No. 74, 1957.
- Petrov, V. P., et al., Summary: "New Bridge-Type Automatic Telemetering Meteorological Station," Issue No. 103, 1960. *
- Pyatygina, K. V., and Zakarova, M. N., "Early Calculation of the Movement of Cyclone Centers," Issue No. 71, 1957. (OTS, Tr. JPRS/NY-L-317)
- Reshetnikova, K. A., "Determination of the Vertical Currents From Equations of Dynamics of the Turbulent Atmosphere and the Analysis of Their Mean-Monthly Values," Issue No. 71, 1957. (OTS, Tr. JPRS/NY-L-319)
- Reynet, Ya. Yu., "Combination Counter for Atmospheric Ions," Issue No. 58, (120), 1956. * (TIC, Tr. F-TS-9891/V, 657754)
- Sal'man, E. M., "Problem of the Optimum Radar Wavelength for the Detection of Cloud Systems and Precipitation," Issue No. 102, 1960. (ATS, Tr. RJ-2850, Price \$16.40, extra copies \$2.25)
- Shekhter, F. N., "Calculating the Depth of Frost-Penetration in Soil and the Temperature of the Frost-Penetrated Soil," Issue No. 77, 1958. * (USWBL)
- Shnaldman, V. A., "The Influence of a Non-Stationary Pressure Field on the Wind Distribution in the Boundary Layer," Issue No. 77, 1958. * (USWBL)
- Shneyerov, B. Ye., "Effect of the Inflow of Heat on Large Scale Movements in the Atmosphere," Issue No. 71, 1957. (OTS, Tr. JPRS/NY-L-319)
- Sokolik, N. I., "The Effect of Irrigation on the Heat Regime of Surrounding Areas," Issue No. 77, 1958. * (USWBL)
- Tarnopol'skii, A. G., "A Simultaneous Determination of Meteorological Profiles and of the Quantitative Characteristics of Turbulence in the Boundary Layer of the Atmosphere," Issue No. 77, 1958. * (USWBL)
- Ter-Markaryants, N. Ye., "Reflection of Radiation by the Sea in the Presence of Waves," Issue No. 68, 1957. (OTS, Tr. JPRS/NY-L-328)
- Ter-Markaryants, N. Ye., "Relationship of the Coefficient of Reflection of Water to the Length of Incident Light Waves," Issue No. 68, 1957. (OTS, Tr. JPRS/NY-L-328)

TRUDY GLAVNAIA GEOFIZICHESKAIA OBSERVATORIIA (imeni A. L. Voeikova) (Cont'd)

Ter-Markaryants, N. Ye., "Reverse Scattering of Radiation by the Sea," Issue No. 68, 1957. (OTS, Tr. JPRS/NY-L-328)

Tkachenko, A. V., "Convective Power and Its Utilization in Local Forecasting," Issue No. 69, 1957. (DSIR, Tr. LLUM-1515)

Tkachenko, A. V., "The Problem of Determining the Eddy Viscosity Coefficient for the Boundary Layer of the Atmosphere," Issue No. 60, (122), 1956. * (USWBL)

Tsel'tin, G. Kh., "On Calculating the Thermometric Conductivity Coefficient and Heat Flux in Soil on the Basis of Average Temperatures," Issue No. 60, (122), 1956.

Utina, Z. M., "The Allowance for Differences in the Coefficients of Turbulent Diffusion for Temperature and Humidity in the Problem of 'Mixed' Transformation," Issue No. 69, 1959. (DSIR, Tr. LLUM-1516)

Vorob'yev, I. Ye., "Nephoscopic Method of Determining the Height of Clouds," Issue No. 72, 1957. (TIC, Tr. F-TS-9918/V)

Vorontsov, P. A., et al., "Experience in the Aerological Investigation of the Lower Layer of the Atmosphere in the Azau Valley," Issue No. 63, (125), 1956. (OTS, Tr. JPRS 7485)

Voskanov, A. I., et al., "The Possibility of Safe Passage of Aircraft Through Thunderstorm Areas," Issue No. 67, (129), 1957. (ATS, Tr. RJ-2853, Price \$9.75, extra copies \$2.40)

Yudin, M. A., "Prognosis of the Pressure Field by the Computation Method," Issue No. 71, 1957. (OTS, Tr. JPRS/NY-L-315)

TRUDY GOSUDARSTVENNOGO GIDROLOGICHESKOGO INSTITUTA

Borsuk, N. O., "Artificial Regulations of the Flow of Small Streams in the European Part of the USSR," No. 62, 1957. * (USWBL)

TRUDY GOSUDARSTVENNOGO OKEANOLOGICHESKOGO INSTITUTA

Betin, V. V., et al., "On the Method of Observations on Sea Ice From Aircraft," Vol. 40, 1957. * (HO-122)

TRUDY INSTITUTA FIZIKI ATMOSFERI AKADEMIIA NAUK SSSR

Blinova, E. N., and Marchuk, G. I., "On the Theory of the Annual Variation of a Purely Zonal Circulation," No. 2, 1958. (DSIR, Tr. LLUM-1518)

Chistyakov, A. D., "The Forecast of Temperature and Wind in the Upper Troposphere and Lower Stratosphere," No. 2, 1958. (OTS, Tr. JPRS 5201)

TRUDY INSTITUTA FIZIKI ATMOSFERY AKADEMIYA NAUK SSSR (Cont'd)

Marchuk, G. I., "The Annual Variation of the Circulation Index," No. 2, 1958.
(DSIR, Tr. LLUM-1520)

Monin, A. S., "On the Transformation of Energy of the Zonal Circulation of the Atmosphere," No. 2, 1958. (DSIR, Tr. LLUM-1529)

Obuchov, A. M., and Tschapligina, A. S., "The Change of the Barometric Field in the Intermediate Atmosphere," No. 2, 1958. * (OTS, Tr. JPRS 5213)

TRUDY MORSKOGO GIDROFIZICHESKOGO INSTITUTA IN-TA AN SSSR

Ivanov, A. A., "The Photo-Recording of Wave Elements," Vol. IV, 1950. (DSIR, Tr. LLUM-656)

Ivanov, A. A., "Some Conclusions From an Analysis of Observational Data on Wind-Excited Disturbances," Vol. VIII, 1956. (DSIR, Tr. LLUM-657)

Lutkovskiy, S. V., "Certain Considerations on Improving the Quality of Ice Forecast," Vol. XII, 1958. *

Lutkovskiy, S. V., "Current Status on the Problem of Ice Formation," Vol. XII, 1958.*

Nemchenko, V. I., "Thermobattery for Measuring Pulsations in Air Temperature," Vol. XIII, 1958. (OTS, Tr. 60,11-172)

TRUDY NAUCHNO-ISSLEDOVATEL'SKOGO INSTITUTA AEROKLIMATOLOGII

Kravtsova, L. A., "Temperature Regime of the Free Atmosphere Over Ukraine SSR," No. 3, 1957.

Lobanova, V. Ya., and Sokolova, M. V., "The Characteristics of Low Clouds in a Zone of Atmospheric Fronts," No. 5, 1958. (OTS, Tr. PB 131632-74)

TRUDY NAUCHNO-ISSLEDOVATEL'SKOGO INSTITUTA GIDROMETEOROLOGICHESKOGO PRIBOROSTROYENIYE

Nepomnyashchiy, S. I., "Aircraft Dropsondes," No. 5, 1957. (OTS, Tr. JPRS/L-1384-D)

Shtein, N. I., "Calculation Peculiarities of Radio Transmitters Used in Certain Meteorological Apparatus," 1957. (SLATC, Tr. AEC/SCL-T-258)

Shtein, N. I., "The Relation Between the Length of a Radio (Im) Pulse and the Length of a Modulated (Im) Pulse in Automatic Valve Generators," No. 5, 1957.

Varzhenevskiy, N. S., Excerpts: "Film-Type Indicators of Humidity," No. 5, 1957.

TRUDY NAUCHNO-ISSLEDOVATEL'SKIK UCHREZHDENII, USSR GLAVNOI UPRAVLENIE
GIDROMETEOROLOGICHESKOI SLUZHBYSeria 2. Sinopticheskaya Meteorologia

Buz, A. I., "The Question of the Determination of the Importance of Convective Motions by the Layer Method," 1958. (BMOL, Price 12/-)

TRUDY SREDNEGO AZIATSKOGO NAUCHNO ISSLEDOVATEL'STVO GIDROMETEOROLOGICHESKOGO
INSTITUTA

Litvinova, L. Ye., "Forecasting Strong Gales on the Aral Sea," No. 1, 1959. (OTS, Tr. JPRS 9031)

TRUDY TBILISSKOGO NAUCHNO ISSLEDOVATEL'SKOGO GIDROMETEOROLOGICHESKOGO INSTITUTA
VYPUSK

Bartishvili, I. T., "On Methods of Measuring Precipitation in Mountain Conditions," No. 2, 1957. (DSIR)

TRUDY TSENTRAL'NOI AEROLOGICHESKOI OBSERVATORII (Moscow)

Kostarev, V. V., "Experience in Radar Troposphere Sounding," No. 20, 1958. (ATS, Tr. RJ-2846, Price \$17.95, extra copies \$3.45)

Muchnik, V. M., "Detection of Thunderstorms and Rainstorms by the Radar of a Storm Identification Station," No. 20, 1958. (ATS, Tr. RJ-2845, Price \$12.65, extra copies \$3.45)

Muchnik, V. M., "Some Radar Characteristics of Rainstorm and Thunderstorm Cells," No. 20, 1958. (ATS, Tr. RJ-2844, Price \$9.00, extra copies \$1.70)

Polovina, I. P., "The Accuracy of the Calculation of Specific Humidity From Measurements of Relative Humidity in the Free Air," No. 22, 1957. (DSIR, Tr. LLUM-1935)

Repnev, A. I., "Properties of the Upper Atmosphere and Artificial Earth Satellites," No. 25, 1959. (OTS, Tr. JPRS 7486)

Reshetov, V. D., "Analysis of Two Cases of Cyclo- and Anti-cyclogenesis," No. 23, 1957. (OTS, Tr. JPRS/L-1804-D)

Reshetov, V. D., "Concerning Radiational Overheating of the Comb Radiosonde and Its Effect on the Results of an Atmospheric Sounding," No. 24, 1958. * (USWBL)

Seregin, Yu. A., "The Dissipation of Supercooled Fogs From the Ground by a Silver Iodide Aerosol," No. 19, 1958. (OTS, Tr. PB 131632-142)

Shmeter, S. M., and Shur, G. N., "Electric Meteorograph for Aircraft Research," No. 22, 1957. (TIC, Tr. MCL-395/1)

TRUDY TSENTRAL'NOI AEROLOGICHESKOI OBSERVATORII (Moscow) (Cont'd)

- Shupyatskii, A. B., "Radar Measurement of the Mean Drop Size and the Water Content in Heavy Rainstorms," No. 20, 1959. (ATS, Tr. RJ-2848, Price \$13.80, extra copies \$1.85)
- Shur, G. N., "Determination of the Vertical Velocities of Turbulent Gusts of Wind During Observation Flights of Airplanes," No. 22, 1957. (TIC, Tr. MCL-395/1)
- Solov'yev, A. D., "Methods for Inducing the Formation of Ice Crystals in Super-cooled Clouds," No. 17, 1957. (ATS, Tr. RJ-1341, Price \$17.93, extra copies \$4.95)
- Stepanenko, V. D., "Improving the Meteorological Target Detection Efficiency of the 'Kobal't' Radar," No. 20, 1958. (ATS, Tr. RJ-2847, Price \$8.45, extra copies \$1.70)
- Yefimov, P. L., and Khachatryan, A. M., "Accuracy of the Determination of Wind Direction and Speed at Different Altitudes With the 'Malakhit' Radio Theodolite," No. 31, 1959. (OTS, Tr. JPRS 9280)
- Zajcikov, P. F., "Results of Aerological Observations at Drifting Station S-4 (C-4) at the Time of the 1949 Expedition," No. 22, 1957. (DSIR, Tr. LLUM-1936)

Selected Articles, No. 25, 1959. * (OTS, Tr. JPRS 7487/88/89)

Contents:

- Biryukova, L. A., "Distribution of Energy in the Spectrum of Solar Rays at Various Altitudes."
- Biryukova, L. A., "Experiment in Determining the Brightness of the Sky Up to an Altitude of Sixty Kilometers."
- Izakov, M. N., and Chizhov, A. F., "Study of the Temperature Coefficient of Resistance and the Tensionmetric Coefficient of Tungsten Used in the Special Thermometers and Manometers at the Central Aerological Observatory."

TRUDY TSENTRAL'NOGO INSTITUTA PROGNOZOV (Moscow)

- Bachurina, A. A., "Investigation of the Horizontal Visibility on the Earth's Surface at Snow-Storms," No. 77, 1958. *
- Belousov, S. L., "Short-Range Pressure Forecasting Using High-Speed Computers," No. 60, 1957. * (OTS, Tr. JPRS 455-D)
- Borisova, E. I., "Mean Monthly Air-Temperature Anomaly in the Winter Months Over the European Territories of the USSR and Western Siberia in Connection With the Features or Synoptic Processes," No. 71, 1958. (DSIR, Tr. LLUM-1532)
- Kheyfets, Ya. M., and Shishkova, I. A., "Improving Long Range Weather Forecasting," No. 93, 1960. *

TRUDY TSENTRAL'NOGO INSTITUTA PROGNOZOV (Moscow) (Cont'd)

- Kibel, I. A., "The Analysis of Geostrophic Motion in Weather Prediction," No. 60, 1957. * (OTS, Tr. JPRS 5221)
- Kontorshchikov, A. S., "Scientific Research Work in Agricultural Meteorology in the Central Institute of Prognosis in the Period 1936-1956," No. 55, 1957. (OTS, Tr. JPRS/NY-L-335)
- Lebedeva, N. V., "Forced Convections of a Warm Front," No. 77, 1958. *
- Mashkovich, S. A., "A Contribution to the Problem of Computing Vertical Motions in the Atmosphere," No. 43, (70), 1956. * (DRB)
- Mertsalov, A. N., "On the Study of Incorrect Weather Forecasts," No. 69, 1958. (BMOL)
- Nikitina, E. A., "The Analysis and Forecasting of Anomalies of Air Temperature for the Spring Months," No. 71, 1958. (DSIR, Tr. LLUM-1474)
- Protserov, A. V., "Agricultural Meteorology in the Service of Agriculture for 20 Years," No. 55, 1957. (OTS, Tr. JPRS/NY-L-336)
- Sadokov, V. P., and Dobryshman, E. M., "Concerning the Solution of the Equation Describing Perturbations in the Field of a Gradient Wind," No. 43, (70), 1956.* (OTS, Tr. JPRS 5207)
- Shishkov, V. G., "A Method of Constructing Monthly Weather Forecasts Based on the Recurrence of Synoptic Situations," No. 71, 1958. (DSIR, Tr. LLUM 1524)
- Tsepkanova, E. I., and Ur'yeva, B. R., "Forecast of the General Characteristics of the Weather for a Month," No. 71, 1958. (DSIR, Tr. LLUM-1535)
- Turketti, Z. L., and Zhil'tsova, V. I., "Test of the Method of Calculating the Precipitations of the Six Cold Months in the Operational Work of the Central Institute of Prognoses," No. 77, 1958. *

TRUDY UKRAINSKOGO NAUCHNO ISSLEDOVATEL'SKOGO GIDROMETEOROLOGICHESKOGO INSTITUTA

- Gavrilenko, N. M., "Some Peculiarities of the Forecasting of Visibility During Low-Altitude Snowstorms in the Ukraine," No. 12, 1958. (OTS, Tr. PB 131632-74)
- Guk, N. I., "On the Properties of Isolines and Their Systems," No. 13, 1958. (OTS, Tr. PB 131632-74)
- Volevakha, N. M., and Volevakha, V. A., "On the Possibility of Predicting the Onset of Intensive Icing," No. 21, 1958. OTS, Tr. PB 131632-74)

TRUDY UKRAINSKII NAUCHNO ISSLEDOVATEL'SKII INSTITUT

- Koshelenko, I. V., "Influence of Local Conditions on the Formation of Fogs,"
No. 21, 1960. * (USWBL)

UCHENYE ZAPISKI LENINGRADSKII GOSUDARSTVENNYI UNIVERSITET, SERII GEOGRAFICHESKIKH
NAUK

- Zakharova, A. F., "Radiation Regime of Northern and Southern Slopes [in the USSR]
in Relation to Geographical Latitude," No. 269, 1959. * (OTS)

UKRAINSKYI FIZYCHNYI ZHURNAL

- Markovich, L. M., and Muchnik, V. M., "Structure of Thunderstorm Showers, According
to Data on the Intensity Distribution of Radi-Echoes With Height," Vol. 5, No. 2,
1960. (AD-258401) *

UNIVERSITÄT MÜNCHEN, METEOROLOGISCHES INSTITUT, ABHANDLUNGEN

- Baumgartner, A., "Measured Values and Further Investigations on the Heat and Water
Economy of a Young Forest," No. 4, 1957. (CSIRO, Tr. T4209)

USPEKHI ASTRONOMICHESKII NAUK

- Fesenkov, V. G., "Periodicity of the Solar Constant in Connection With Weather
Forecasts," Vol. 3, 1947. (AD-255357) * (TIC, Tr. MCL-70/III)

USPEKHI FIZICHESKIKH NAUK

- Al'pert, Ya. L., et al., "Some Outer Ionosphere Electron Concentrations Determined
From Observations on Radio Signals From the First Earth Satellite," Vol. 65,
No. 2, 1958. (ATS, Tr. RJ-1715)
- Al'pert, Ya. L., "Study of the Ionosphere and of the Interplanetary Gas by Means of
Satellites and Space Rockets," Vol. 71, No. 3, 1960. *
- Egorov, V. A., "Certain Problems of Moon Flight Dynamics," Vol. 63, No. 1, 1957.
(USWBL)
- Getmantsev, G. G., et al., "Radioastronomical Research by Means of Artificial Earth
Satellites," Vol. 65, No. 2, 1958. * (OTS, Tr. JPRS 730-D)
- Iatsunskii, I. M., "The Effect of Geophysical Factors on the Motion of a Satellite,"
Vol. 63, No. 1, 1957. (USWBL)
- Khrgian, A. Kh., "The International Geophysical Year," Vol. 62, No. 4, 1957.
(OTS, Tr. AEC-3972/PL-480)
- Khvostikov, I. A., "Ozone in the Stratosphere," Vol. 59, No. 2, 1956. (AD-226782) *

USPYEKHI FIZICHESKIKH NAUK (Cont'd)

Krigyan, A. Kh., "Fifth Assembly of the Special Committee of the International Geophysical Year and Modern Problems of Geophysics," Vol. 67, No. 21, 1959. (AIP)

Mandelstam, S. L., and Efremov, A. I., "Investigation of Shortwave Ultraviolet Solar Radiation," Vol. 63, No. 1b, 1957. * (Navy 1808/JH4, TG230-T4)

Mirtov, B. A., "High-Altitude Rocket Investigations of the Composition of the Atmosphere," Vol. 63, 1957.

Mirtov, B. A., and Istomin, V. G., "Study of the Ion Composition of the Ionized Layers of the Atmosphere," Vol. 63, 1959.

Monin, A. S., "Atmospheric Diffusion," Vol. 67, No. 1, 1959. (AIP)

USSR, "Conference on Actinometry," Vol. 68, No. 2, 1959.

VAZDUHOPLOVNI GLASNIK

Markovich, Radovin, "Radiosonde and Radar in Meteorology," Vol. 9, No. 3, 1953.* (TIC, Tr. F-TS-8331/V)

VEROEFFENTLICHUNGEN DER STERNWARTEN IN BABELSBERG

Notni, P., and Oleak, Hans., "The Motion of a Rotating Satellite of Cylindrical Shape in the Atmosphere," Vol. 13, No. 3, 1959. (AD-233924) * (BMOL, Tr. RAE 868)

VESTNIK AKADEMII NAUK SSSR

[Anon]: "Scientific Bases in the Antarctic," Vol. 27, No. 10, 1957.

Bardin, I. P., "Ways of Developing the Industries of the Eastern Regions of the Country," Vol. 29, No. 1, 1959. *

Baskin, M. L., and Semerchan, A. A., "Growth and Coalescence of Crystals Under the Influence of Ionizing Radiations," Vol. 28, No. 1, 1958. (DRB)

Belousov, V. V., Tectonophysics: "A Promising New Orientation in Geology," Vol. 28, No. 9, 1958. * (DPE, Tr. 310R)

Blagonravov, A. A., and Kroshkin, M. G., "Geophysical Research With the Aid of Rockets and Artificial Satellites," Vol. 30, No. 7, 1960. (AD-251376) * (NASA, Tr. F-57)

Brekhovskikh, L. M., and Mikhail'tsev, I. Ye., "Acoustics and Oceanology," Vol. 30, No. 1, 1960. * (OTC, Tr. JPRS 3160)

VESTNIK AKADEMII NAUK SSSR

- Fedorov, E. K., and Skuridin, G. A., "Rockets and Artificial Earth Satellites for Investigating the Upper Atmosphere," Vol. 27, No. 8, 1957.
- Gusev, A. M., "Fourth Antarctic Expedition Results of the First Stage of the Work," No. 7, 1959. * (OTS, Tr. PB 131632-81)
- Gusev, A. M., "Scientific Bases in the Antarctic," No. 10, 1957. *
- Krasovskiy, V. I., "Some Problems of the Physics of Auroras," No. 5, 1960. * (OTS, Tr. PB 131632-128)
- Krinov, Ye. L., "Researches in the Field of Meteoritics," No. 2, 1957. (AD-204505)* (DRB, Tr. 246R)
- Lavrent'yev, M. A., and Chernenko, A. K., "Development of Science in Siberia," No. 1, 1959. *
- Mustel', E. K., and Yegorova, N. B., "Study of the Sun and Problems of Geophysics," No. 8, 1959. (OTS, Tr. JPRS 2133-N)
- Pariiski, N. N., "Earth Tides and the Earth's Inner Structure," No. 6, 1960. (ATS, Tr. RJ-2833, Price \$16.45, extra copies \$2.35)
- Petrovich, V. G., "Lunar Probes With Rocket Devices," No. 11, 1959. *
- Shcherbakov, D. I., "Oceanographical Congress in the United States," No. 12, 1959. (TILS, Tr. DSI-618)
- Sysoyev, N. N., "Oceanological Investigations of Soviet Scientists," No. 2, 1960. (OTS, Tr. JPRS 2787)
- Tumanov, I. I., "Artificial Climate Stations," No. 10, 1957. (ATS, Tr. RJ-2865, Price \$9.95, extra copies \$1.95)

VESTNIK AKADEMII NAUK KAZAKHSKOY SSSR (Alma Ata)

- Fesenkov, V. G., "Some Results of Investigation According to the IGY Program," No. 6, 1959. (OTS, Tr. JPRS 2092-N)
- Fesenkov, V. G., "Soviet IGY Studies on Zodiacal Light," No. 8, 1958. (OTS, Tr. JPRS 1312-N)
- Reznyakov, A. B., and Tonkongogiy, A. V., "Conference on Cyclone Processes," No. 11, (188), 1960. (OTS, Tr. JPRS 9018)

VESTNIK LENINGRADSKOGO UNIVERSITETA

- Eskin, F. I., "The Influence of Atlantic Waters on the Upper Levels of the Arctic Seas," No. 6, 1960. (AD-248541) *

VESTNIK LENINGRADSKOGO UNIVERSITETA, SERIYA FIZIKA I KHIMII

Kondrat'yev, K. Ya., and Manolova, M. P., "Receipt of Scattered and Total Radiation on Inclined Surfaces During Snow Cover," No. 3, 1960. (AD-248406) * (AID, Tr. 60-89)

Kondrat'yev, K. Ya., and Zigel', O. A., "Thermal Sounding of the Atmosphere by Photometric Twilight Data," No. 10, 1960. (AD-244980) * (AID, Tr. 60-20)

VESTNIK MANCHZHURII

Bedariyofu, P. K., "The Industrial Data of North Manchuria," No. 17, 1933. (USWBL)

VESTNIK MOSKOVSKOGO UNIVERSITETA, SERIYA GEOGRAFICHESKOGO

Guseva, I. N., "Climate Maps in National Atlases," No. 3, 1960.

VESTNIK VOZDUSHNOGO FLOTA

Zatsepa, N. S., "A Long-Range Flight Under Difficult Conditions," No. 9, 1958. *

Selected Articles, No. 1, 1959. * (TIC)

Contents:

Mikhaylovskiy, A. V., "Determining the Ballistic Wind for Bombing," pp. 56

Vorob'yev, L. V., "If the Pilot Made a Mistake in the Approach and Landing Procedure Under Adverse Weather Conditions," pp. 37-39.

Yefremov, A. Ya., "How to Determine the Cloud Base More Accurately," pp. 98-99.

VIZUGYI KOZLEMEENYEK (Hungary)

Laszloffy, Woldemar, "A Survey of Hydrology in the Soviet Union," No. 3, 1960. (OTS, Tr. JPRS 6603)

VOPROSY KOSMOGONIY

Poloskov, S. M., "Conference on Physics of Corpuscular Streams Emanating From the Sun and on Study of Their Effect Upon the Upper Atmosphere and Magnetic Field of the Earth," Vol. V, 1957. * (TIC, Tr. F-TS-9766/III)

VSESIOIUZNOE ASTRONOMO-GEODEZICHESKOE OBSHCHESTVO

Selected Articles, No. 20, (27), 1957. *(OTS, Tr. 60-11,456, Price \$2.50)

Contents:

Bakharev, A. M., "Observation of the Solar Eclipse on 30 June 1954, pp. 28-43.

Dagayev, M. M., "Meteorological Observations at Chernobyl on 30 June 1954, p. 87.

Feklushin, V. A., "Observations of the Passage of Radiowave During the Total Eclipse on 30 June 1954, pp. 88-90.

Fomenko, B. D., "Meteorological Observations During the Solar Eclipse of 30 June 1954," pp. 74-80.

Gulak, Yu. K., and Bezkosty, I. D., "Observations of the Solar Eclipse on 30 June 1954, pp. 81-86.

Kunichev, L. A., "The Course of Solar Radiation at Sochi During the Eclipse on 30 June 1954," pp. 66-72.

Neprokin, V. I., "The Course of Meteorological Elements During the Solar Eclipse on 30 June 1954, pp. 44-50.

Semakin, N. K., "Actinometric Observations During the Solar Eclipse on 25 February 1952, pp. 51-59.

Temnikova, N. S., "Meteorological Conditions During the Solar Eclipse on 30 June 1954 in the Latvian SSR," pp. 16-27.

VSESIOIUZNOE GEOGRAFICHESKOE OBSHCHESTVO SSSR, ZAPISKI

Borisov, A. A., "The Climate of Southern Finland," No. 2, 1947. * (AD-1115) (LC)

VSESIOIUZNOE OBSHCHESTVO PO RASPROSTRANENIIU POLITICHESKIKH I NAUCHNYKH ZNANII

Lebedeva, N. V., "How Clouds and Precipitation are Formed," Ser. III, No. 17, 1955. (ATS, Tr. RJ-1057, Price \$17.50, extra copies \$5.55)

WISSENSCHAFT UND FORTSCHRIFT

Lauter, E. A., "The Exploration of the Upper Atmosphere," Vol. VI, 1958.* (OTS, Tr. JPRS/ASIS/SC-10/59)

WISSENSCHAFTLICHE VEROEFFENTLICHUNGEN DES DEUTSCHEN INSTITUTE FUER LAENDERKUNDE

Neumann, Heinrich, "The Geophysical Foundations of the Artificial Irrigation of Iran and Iraq," No. 12, ca. after 1950. *

YMER

Thoren, Ragnar, "Photographic Reconnaissance and Interpretation of Sea Ice in the Arctic," No. 4, 1958. *

ZEITSCHRIFT FUR ANGEWANDTE PHYSIK

Nauer, H., "Model Tests on Ball Lightning," No. 5, 1953. (OTS, Tr. AEC/SCL-T-246)

Poeeverlein, H., "Long Ranges of VHF, UHF, and SHF," No. 3, 1956. (AD-133712) *

ZEITSCHRIFT FUR ANGEWANDTE PHYSIK, EINSCHLIESSLICH NUKLEONIK

Schumann, Winfried Otto, "Electrical Oscillations Generated in the Earth-Atmosphere-Ionosphere Space Through Lightning Discharges," Vol. 9, No. 8, 1957. *
(TIC, Tr. F-TS-9960/V)

ZEITSCHRIFT FUR ASTROPHYSIK

Kiepenheuer, K., "The Structure of the Disturbed Solar Atmosphere," Vol. 49, No. 2, 1960. (CSIRO, Tr. 4993)

Rabben, H., "Solar Burst of Type III and Their Relation to Flares," Vol. 49, No. 2, 1960. (CSIRO, Tr. 4992)

ZEITSCHRIFT FUR INSTRUMENTENKUNDE

Adam, J., "Determination of Exposed-Stem Correction for Mercury Thermometers by Means of the Stem Thermometer," Vol. 27, No. 4, 1907. (DSIR, Tr. 32420/GT)

Berek, M., et al., "Concerning Tyndallometric Measurement of Dust Content in Air and a New Dust Measuring Apparatus," Vol. 56, 1936. * (US Bureau of Mines, Experimental Station, Pittsburgh, Pa., Tr. 24)

ZEITSCHRIFT FUR METEOROLOGIE

Brandejs, H., and Zikmunda, O., "Numerical and Graphical Prognosis of the Ground Pressure Field," Vol. XI, No. 10, 1957. (OTS, Tr. JPRS L-1597-D)

Dietze, G., "The Importance of the Artificial Earth Satellites for Atmospheric Optical Research," Vol. XII, No. 3, 1958.

Grasnick, Karl Heinz, "A New Instrument for Recording Global Radiation in the Ultraviolet-A and Ultraviolet B Special Range," Vol. XII, Nos 1/2. 1958. *

Grober, K. W., Remarks to the Essay of H. Garisch: "The Vertical Wind Velocity of Bora," Vol. VIII, 1954. (OTS, Tr. AEC/SCL-T-243)

Hoffmeister, C., "Atmospheric Currents at a Height of 120 km," Vol. I, Nos 2/3, 1946. (USWBL)

ZEITSCHRIFT FÜR METEOROLOGIE (Cont'd)

Klinker, L., "Further Results of Tropospheric Drift Observations With Regard to the Question of the Mechanism of Long-Range Propagation at Meter Wavelengths," Vol. XI, Nos. 10-11, 1957. (AD-236572) *

Reiter, R., "Results of Synoptic Atmospheric Electricity Investigations in the Eastern Alps in Spring and Summer of 1950," Vol. IX, No. 8, 1955. (SLATC, Tr. 57-2729)

Rodewald, M., "Ball Lightning Observations," Vol. 8, 1954. (OTS, Tr. AEC/SGL-T-212)

Schmelovsky, Karl-Heinz, "Partial Reflections in Weak Tropospheric Wave-Ducts," Vol. X, No. 8, 1956.

Timofejew, M. P., "Investigations of the Physics of the Layer of Atmosphere Near the Surface of the Earth," Vol. XII, No. 3, 1958.

Walden, H., Excerpt: "Some Meteorological and Climatological Problems of the Greenland Area," Vol. XII, Nos. 4-6, 1958. *

ZEITSCHRIFT FÜR NATURFORSCHUNG

Pastzold, H. K., "Vertical Distribution of Atmospheric Ozone, Determined From Balloon Ascents," Vol. XA, No. 1, 1955. (CSIRO)

ZEITSCHRIFT FÜR PHYSIK

Reinecke, Rudolf-Heinrich, "The Mechanism of the Lewis-Rayleigh Afterglow of Active Nitrogen," Vol. 135, No. 4, 1953. (PS)

ZEITSCHRIFT FÜR TECHNISCHE PHYSIK

Sieber, Werner, "Composition of Heat Radiation Reflected by Raw - and Structural Materials," No. 6, 1941. * (TIC, Tr. F-TS-9527/III)

ZEITSCHRIFT DES VEREINS DEUTSCHER INGENIEURE

Lehmann, P., "The Steinheuer Frost Indicating Disc, a Simple Device for the Frost Protection of Crops," Vol. C, No. 9, 1958. (DSIR, Tr. 33997/6T)

ZEITSCHRIFT FUER VERMESSUNGSWESEN

Maelzer, H., "Measurement of Elevations During the Summer 1959 Operations of the International Glaciological Greenland Expedition (EGIG)," Vol. 85, No. 8, 1960.

ZHURNAL EKSPERIMENTAL'NOY I TEORETICHESKOY FIZIKI

Kondrat'yev, V. N., "Air Afterglow and Thermal Radiation of Nitrogen Peroxide," Vol. VII, No. 5, 1937. (OTS, Tr. JPRS 7234)

Kondrat'yev, V. N., "The Quantum Sensitivity of the Spectrographic Method of Recording Radiation," Vol. VII, No. 12, 1937. (OTS, Tr. JPRS 7220)

Zishin, M., and Kondrat'yev, V., "Afterglow Spectrum During Discharge in Water Vapor," Vol. VII, No. 8, 1937. (OTS, Tr. JPRS 7235)

ZHURNAL MIKROBIOLOGII, EPIDEMIOLOGII, I IMMUNOBIOLOGII

Pilipenko, V. G., "The Significance of Winds in the Intensification of the Transmissive Tularemic Outbreak and in Its Spread Beyond the Limits of the Natural Nidus," Vol. 30, No. 8, 1959. (USDA)

ZNANIYE-SILA

Glebov, A., and Vyalov, S., "Five Million Atmospheres [and] Where it is Coldest of All," September 1958. (OTS, Price \$0.75)

ZYCIE WARSZAWY

[Anon]: "Radioactivity in the Atmosphere, Stratosphere — A Reservoir for Radioisotopes," 12 March 1959. (OTS, Tr. AEC/CWL-550-P-28)

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TRANSLATIONS OF BOOKS AND OTHER
NON-SERIAL PUBLICATIONS

Aizenshtat, B. A., see Budyko, M. I., Contemporary Problems.....

Aleksandrov, S. G., and Fedorov, R. Ye., Summary: Cosmic Ray Study. Sovetskiye Sputniki i Kosmicheskaya Raketa, (Soviet Sputniks and Space Rockets), 1959, pp. 95-105, 152-155, 178-180. Transl., December 1959, 10 pp. *

[Anon]: Code for Telegraphic Transmission of Meteorological Observations Made in the Observatories of the Country of Mexico 1943. Mexico Dept. of Agriculture and Development. Transl., January 1943, 22 pp. * (USWBL)

[Anon]: The Construction and Exploitation of Winter Airdromes. Chapters I-IX. (Straitelstvo i Ekploatsiya Zimnikh Aerodromov.) Moscow, 1943. Transl., 1948? 73 pp. (ATI-99805) * (AID, Tr AF-241300)

[Anon]: Meteorological Theories and Methods in Germany and Their Historical Development. Transl., from German, 1945? 19 pp. (ATI-113185) *

[Anon]: Military-Geographic Study of Turkey. (Militärgeographische Angaben über Turkey.) Berlin, circa 1943. Transl., 16 pp. *

[Anon]: Physical Geography of the Rumanian People's Republic. (Monograph) Geografia Fizica, 1955, pp. 1-284, 303-764. Transl., 518 pp.

Arabazhi, V. I., Excerpt: Thunder, from the book by Arabazhi, "Thunderstorms and Thunderstorm Processes," Minsk, 1960. (ATS, Tr. RJ-2864, Price \$18.40, extra copies \$3.15)

Bardin, I. P., USSR Rocket and Earth Satellite Program for the IGY. Submitted in a letter of transmittal dated 10 June 1957 to the CSAGI at Brussels. Transl. in "Casebook of Soviet Aeronautics, Part II," Rand Research Memorandum, pp. 197-203. (AD-133018) * (RC)

Bartels, J., Geomagnetism II. Time Variations, Relations to Solar Physics, to the Aurora, Polaris and to the Ionosphere. (Erdmagnetismus II. Zeitliche Variationen, Beziehungen zur Sonnenphysik, zur Ionosphäre.) Naturforschung und Medizin in Deutschland 1939-1946, Geophysik No. 17, 1948, pp. 39-91. Transl., AMS for GRD, 86 pp.

Beelitz, Paul, (U) Discussion of Russian Radiosonde Use by Occupation Forces in East Germany. May 1959. Transl., 4 pp. (C) *

- Belinskiy, N. A., Utilization of Certain Features of Atmospheric Processes for Long-Range Forecasts. (Ispol'zovaniye Nekotorykh Osobennostey Atmosfernykh Protessov Dlya Dolgosrochnykh Prognozov.) 1957, 204 pp. Transl., October 1959, 242 pp. * (TIC, Tr. F-TS-9819/V)
- Berg, L. S., Climate and Life. (2nd Ed.) Chapter 8, 1947. Transl., [1960?]. Dept of Interior Library.
- Berliand, M. E., see Budyko, M. I., Contemporary Problems.....
- Bezverkhniy, Sh. A., et al., Photoelectric Ozonometers. Mezhdunarodnyy Geofizicheskii God, Sbornik Statey i Materialov, 1960, pp. 81-104. Transl., 53 pp. (OTS, Tr. JPRS 9291)
- Budyko, M. I., Contemporary Problems in Meteorology of the Surface Layer of the Atmosphere. A Symposium M. I. Budyko, ed. [Scientific papers presented at the 7th-10th May 1957 meeting of the Scientific Council to the A.I. Voeikov Central Geophysical Observatory, Leningrad, USSR/ USSR. Glavnoe upravlenie gidrometeorologicheskogo sluzhby: Sovremennye problemy meteorologii prizemnogo sloia vozdukh. Sbornik statei pod redaktsiei M. I. Budyko. Leningrad, Gidrometeorizdat., 1958, 232 pp. tables, figs., illustr. Translated by George S. Mitchell, Nina A. Stepanova, and Irene A. Donehoo, USWB, June 1961. *
- Contents:
- Aizenshtat, B. A., "The Heat Balance and Microclimate of Certain Landscapes in a Sandy Desert," pp. 67-130. Transl., October 1960, 90 pp. *
- Berliand, M. E., "Local Forecasts of Temperature and Humidity Changes in the Surface Layer of the Atmosphere," pp. 138-156. Transl., June 1960, 27 pp. *
- Budyko, M. I., "The Temperature of the Active Surface and Its Bioclimate Significance," pp. 201-211. Transl., July 1960, 17 pp. *
- Davitaia, F. F., "An Appraisal of Microclimate Peculiarities in the Distribution of Cultivated Plants and the Specialization of Agriculture," pp. 192-200. Transl., June 1961, 14 pp. *
- Gal'tsov, A. P., "Progress in Investigating Climatogenetic Processes in the Surface Layer of the Atmosphere on the Basis of Observations of a Single Station," pp. 224-232. Transl., May 1961, 13 pp. *
- Gal'tsberg, I. A., "Peculiarities of the Meteorological Regime of the Surface Layer of the Atmosphere in Regions of Reclamation of Virgin and Long-Abandoned Lands," pp. 212-223. Transl., March 1961, 16 pp. *
- Kuchеров, N. V., and Sternzat, N. S., "Instruments for the Investigation of the Meteorological Regime in the Surface Layer of the Atmosphere," pp. 187-191. Transl., January 1960, 9 pp. *
- Laikhtman, D. L., "Laws Governing Physical Processes in the Boundary Layer of the Atmosphere in the Arctic," pp. 26-42. Transl., July 1959, 24 pp. *

Budyko, M. I., Contemporary Problems.....

Nikandrov, V. Ia., "Microphysical Conditions in the Formation and Dissipation of Fogs," pp. 180-186. Transl., August 1960, 10 pp. *

Obukhov, A. M., "Laws Governing the Microstructure of Temperature and Wind in the Surface Layer of the Atmosphere," pp. 131-137. Transl., April 1961, 11 pp.*

Rusin, N. P., "Meteorological Processes in the Surface Layer of the Atmosphere in Antarctica," pp. 5-25. Transl., February 1960, 31 pp. *

Timofeev, M. P., "The Heat Balance of Water Bodies and Methods of Determining Evaporation (From Them)," pp. 43-60. Transl., August 1960, 28 pp. *

Vorontsov, P. A., "Certain Problems in an Aerological Investigation of the Boundary Layer of the Atmosphere," pp. 157-179. Transl., December 1959, 35 pp.*

Zuev, M. V., "On the Heat Balance of Lake Kara-kul' [Eastern Pamirs]," Transl., March 1960, 7 pp. *

Budyko, M. I., Atlas of the Heat Balance. (Atlas Teplovogo Balansa). (OTS, Tr. ACSI H-6795)

Buyanovskiy, M. S., et al., Physical Features, Surface and Hydrography. Akademiya Nauk SSSR, Institut Geografii. Priroda i Sel'skoye Khozyaystvo Volgo-Ural'skogo Mezhdurech'ya, Moskva, 1956. Prirodnyye Usloviya Ustroystvo Poverkhnosti Gidrografiya, pp. 9-15. Transl. U.S. Army, Corps of Engineers, August 1960, 9 pp. (On loan only)

Chaplygin, Ye. I., Study of Marine Currents and Ice Drifts With the Aid of Automatic Drifting Radio Beacons. Rukovodstvo po Nablyudeniyam nad Techeniyami, 1957, pp. 152-176. (OTS, Tr. JPRS/L-1640-D)

[China]: Abstracts - Meteorology: Annotated Bibliography 1959 Red China Publications. Transl., 16 August 1960, 31 pp. * (AID, Tr. 60-15)

[China]: Climatic Atlas of China, Vol. I and II, published by the Central Meteorological Scientific Research Institute, Central Meteorological Bureau, April 1956. Transl., USAF, IR-47958, 9 June 1958.

Corbeau, Jean, Present and Future of Veronique. Paper presented at the 2nd Salon de L'Aeronautique of Toulouse, France. Reprinted in Techniques et Science Aeronautique, Nov/Dec 1959. Transl., USAF, I. Report No. 1407692, 5 April 1960, 7 pp. *

[COSPAR] Reports of COSPAR Working Groups, Fourth Meeting of COSPAR, Florence, Italy, April 7-18, 1961. Excerpts translated by Captain D. H. Lufkin, Hq AWS, 31 May 1961, 3 pp. *

Danilin, A. I., The Use of Radiations in Hydrometeorology. Gidrometeoizdat, Leningrad, 1957, pp. 17-69. (DSIR, Tr. LLUM-1595)

Davitaia, F. F., see Budyko, M. I., Contemporary Problems.....

- Defant, A., The Absolute Topography of the Physical Sea Level and the Pressure Levels as well as the Movement of Water in the Space of the Atlantic Ocean. From: "Wissenschaftliche Ergebnisse der Deutschen Atlantischen Expedition auf dem Forschungs- und Vermessungsschiff Meteor, 1925-1927," Vol. VI, pp. 192-245. Transl., Navy 1971/T-37, H.O. 16104-Ser., 13377, 1958.
- Defant, A., The Relative Topography of Individual Pressure Levels of the Atlantic Ocean. From: "Wissenschaftliche Ergebnisse der Deutschen Atlantischen Expedition auf dem Forschungs- und Vermessungsschiff Meteor, 1925-1927," 1941, pp. 183-190. Transl., Navy 1972/T-38, H.O. 16104-Ser., 13377, 1958.
- Denisse, J. F., Solar Radio Phenomena and Their Physical Interpretation. (Les phenomenes radioelectriques solaires et leur interpretation physique.) Presented at the 13th General Assembly of the Union Radio Scientifique Internationale in London, 12 September 1960. *(NASA, Tr. TT-F-72, Sep 1961)
- Devyatova, V. A., Microaerological Investigations of the Lower Kilometer Layer of the Atmosphere. (Mikroaerologicheskii Issledovaniya Nizhnego Kilometrovogo Sloya Atmosfery.) 1957, 144 pp. (OTS, Tr. AEG-3799)
- Dobrovol'skii, A. D., The Salinity Increase of the Upper Layers of the Sea During Ice Formation. (K voprosu ob osolonenii poverkhnostnykh sloev moria pri l'doobrazovanii.) Pamiati Iulii Mikhailovicha Shokal'skogo. Moscow, Izdatel'stvo Akademii Nauk SSSR, Vol. 2, 1950, pp. 236-242. Transl., AMS for GRD, 7 pp.
- Dolezalek, H., Free Air Insulator With a Resistance of more than 10^{14} ohms for all Climates. (Freiluft-Isolator mit über 10^{14} ohm für alle Klimate.) Germany. Deutscher Wetterdienst, Meteorologisches Observatorium Aachen. 1959, 25, 20 January 1959, 11 pp. Transl., AMS for GRD, 14 pp.
- Doukan, Gilbert, The World Beneath the Waves. (Les decouvertes sous-marines modernes.) Transl., 1957, 356 pp. (LC)
- Doury, A., A Study of the Results of the Windscale Accident (October 1957) and of the Validity of Sutton's Mathematical Model of Atmospheric Diffusion. (Étude des Conséquences de l'Accident de Windscale (Octobre 1957) et de la Validité du Modèle Mathématique de Diffusion Atmosphérique de Sutton.) (OTS, Tr. AEG-4290, 1960)
- Dubinsky, G. P., et al., Meteorology. (Meteorologiya.) Gidrometeorologicheskoye Izdatel'stvo, Leningrad, 1956. Transl., Parts I and II, February 1960, 470 pp. * (TIC, Tr. F-TS-9838/V)
- Dzhordzhio, N. V., Electrophotometric Measurements in the Auroral Zone. (Elektrofotometricheskii izmereniya v zone poliarnykh svyati.) In: "Spectral Electrophotometric and Radar Research on Aurorae and Night Airglow," 1959. Transl., AMS for GRD, July 1959. (AD-228193) *
- Fedorov, E. K., Physical Methods of Influencing the Weather. Znanie Publishing House, Moscow, 1959, 22 pp. (ATS, Tr. RJ-2849, Price \$25.95, extra copies \$4.30)

- Ferraguti, M., and Marimpietri, L., Improvement of Rain Making Rockets. (Perfezionamento nei razzi.) Patent No. 492559, March 1954. Transl., 5 pp. (AD-128670)
- Flohn, Hermann, Vilhelm Bjerknes. Weather Forecasting Elevated to a Science. (Vilhelm Bjerknes. Die Wettervorhersage zur Wissenschaft erhoben.) From: "Forscher und Wissenschaftler im heutigen Europa - Weltall und Erde." Oldenburg/Oldb., Gerhardt Stalling Verlag, 1956. (PS)
- Fuks, N. A., The Mechanics of Aerosols. Translated from Russian by MSP E. Lachowicz, Army Chemical Center, Maryland, U.S. Army Chemical Warfare Laboratories, 1958, 449 pp., diagrams, tables, 28 cm. (CWL Special publications 4-12) *
- Galperin, Yu. I., Hydrogen Emission and Two Types of Aurorae Spectra. (Vodorodnaia emissia i dva tipa spektrov poliarnykh silanii.) In: "Spectral Electrophotometric and Radar Research on Aurorae and Night Airglow," 1959. Transl., AMS for GRD, July 1959, pp. 1-3. (AD-228193) *
- Gal'tsov, A. P., see Budyko, M. I., Contemporary Problems.....
- Gal'tsov, A. P., Analysis of Climate-Forming Processes in Application to the Genetic Classification of Fogs. (Analiz Klimatoo'razuyushchikh Protssessov v Primenenii k Geneticheskoy Klassifikatsii Tumanov, Moscow, 1957, 206 pp. Transl., 192 pp. (TIC, Tr. F-TS-9816/V)
- Gandin, L. S., et al., Principles of Dynamic Meteorology. Transl. March 1960, 773 pp. * (TIC, Tr. F-TS-9815/V)
- Gandin, L. S., et al., Book of Problems in Dynamic Meteorology. (Zadachnik po Dinamicheskoy Meteorologii.) Gidrometeorologicheskoye Izdatel'stvo, Leningrad, 1957. Transl., October 1959, 213 pp. * (TIC, Tr. F-TS-9840/V)
- Gantmakher, F. R., and Levin, L. M., Theory of Flight of Unguided Rockets. (Teoriya Poleta Neupravlyayemykh Raket.) Gosudarstvennoye Izdatel'stvo Fiziko-Matematicheskoy Literatury, Moscow, 1959, pp. 24-150; 215-236; 254-276. Transl., February 1961, 225 pp. (TIC, Tr. MCL-651/V) (AD-257682) *
- [Germany]: Flight Climatic Survey of Turkey, Caucasus, and the Northern Parts of Syria, Iraq, and Iran. National Office for Weather Service, German Air Force, 1942, 22 pp. Transl., by Hq AWS. *
- Ginzburg, V. I., and Syrovatskiy, S. I., Contemporary Status of the Problem Concerning the Origin of Cosmic Rays. Fizicheskiy Institut im P. N. Lebedev Akademiia Nauk SSSR, Teoreticheskiy Otdel, 1960, 122 pp. Transl., May 1961, 117 pp. (AD-257169) * (TIC, Tr. MCL-943/1+2)
- Girs, A. A., Chapt VIII. The Macrocirculation Method of Long Range Hydrometeorological Forecasts According to G. Ya. Vangengeym. Osnovy Dolgosrochnykh Prognozov Pogody, 1960, pp. 432-464. (OTS, Tr. JPRS 4622)
- Girs, A. A., Chapt XII. A Survey of Methods and Investigations in the Problem of Long-Range Forecasting in the Various Countries of the World. Osnovy Dolgosrochnykh Prognozov Pogody, 1960, pp. 521-546. (OTS, Tr. JPRS 4622)

- Gol'tsberg, I. A., see Budyko, M. I., Contemporary Problems.....
- Gol'tsberg, Ida Arturovna, Microclimate and Its Importance in Agriculture. Hydro-meteorological Publishing House, Leningrad, 1957. * (OTS, Tr. JPRS/DC-L-657)
- Gol'tsman, M. I., Bases of the Methods Used in Aerophysical Measurements. (Osnovy Metodiki Aerofizicheskikh Izmerenii.) Moscow, 1950, 360 pp.
- Gol'tsman, M. I., The Measurement of Wind Elements. Chapt V, from: "Fundamentals of Methodology of Aerophysical Measurements." (Osnovy Metodiki Aerofizicheskikh Izmerenii.) State Publishing House of Technical-Theoretical Literature, Moscow, 1950, pp. 233-354. Translation 151 pp. *
- Gorokhov, D. I., Physical Features. Glavnoye Upravleniye Gidrometeorologicheskoy Sluzby, Agroklimaticheskii Spravochnik po Tambovskoy Oblasti, Leningrad, 1959. Obshchiye Fiziko-Geograficheskiye Usloviya. Chief Administration of the Hydro-meteorological Service. Agroclimatic Manual for Tambovskaya Oblast', pp. 5-9. Transl., Corps of Engineers, U. S. Army, September 1960, 7 pp. (On loan only)
- Grachev, A., Shelterbelt. Lesopolosa Kamyshin-Stalingrad, 1957. (OTS, Tr. 60-51079 PI-480)
- Gromova, L. F., Some Data on the Frequency of Noctilucent Clouds in the Western Part of the USSR Territory. Mezhdunarodnyh Geofizicheskii God, Sbornik Statey i Materialov, 1960, pp. 5-11. (OTS, Tr. JPRS 9174)
- Grosval'd, M. G., and Sukhodrovskiy, V. L., Glaciological Investigations According to the IGY Program on Franz Josef Land. Oposaniye Ob'yektov Glyatsiologicheskikh Mezhdunarodnogo Geofizicheskogo Goda Na Territorii Sovetskogo Soyuza, 1958. (OTS)
- Grun, A. E., Measurement of Air Density by Electron Absorption. Hochspannungs-laboratorium Hechingen Abt. des Max-Planck-Instituts für Physik der Stratosphäre. Transl., 1958, 9 pp. (AD-136515) *
- Grundmann, W., The Six Thermometer. From: "Die Flüssigkeitsthermometrie." Transl. by L. P. Haslam, 11 pp. (USWBL)
- Habermehl, Richard, The Development of the Military Weather Service in Germany 1911-1945. (A short survey.) German Military Weather Service. Transl., by Capt Wm. Geffen, USAF Academy, 36 pp. *
- Hrabov, Ju. B., Methods of Constructing Weather Forecasts for 3-7 Days. Cent. Inst. Progn., Moscow, 1959. (BMOL, Price 12/-)
- Iakovlev, G. N., Solar Radiation as the Chief Component of the Heat Balance of the Arctic Ice. Report to the International Conference on the Study of Sea Ice, Washington, 1958. Transl., by D. Skvirsky, Moscow, Ministry of Merchant Marine of the USSR, Chief Administration of the Northern Sea Route, Arctic Research Institut, 1958, 12 pp. (USWBL)

Imianitov, I. M., Instruments and Methods for Investigating Atmospheric Electricity. (Pribery i Metody Dlia Izucheniia Elektrichestva Atmosfery.) From: Gostekhizdat, Moscow, 1957, 484 pp. (AD-258074) (OTS, Price \$1.10)

Inoue, E., Distribution of Atmospheric Pressure and Weather in the Vicinity of Japan. Transl., 1942, 64 pp. (ATI-113103)

Isayev, B. M., and Simonenko, D. L., Preliminary Data on the Effects of Atomic Bomb Explosions on the Concentration of Artificial Radioactivity in the Lower Atmosphere and in the Soil. Academy of Science Report, 1956. (SLATC)

Ishida, Tamotsu, and Shimizu, Hiromir, Resistance to Air Flow Through Snow, Part I. (Sekisetsu no tsuki teiko (1).) Transl., October 1958, 8 pp. (AD-210749) * (USACRR, Tr. No. 60)

Israel, Hans, et al., The Atmospheric-Electric Climate at Four Selected Stations in the Swiss Alps. I. Survey and Problems. (Das luftelektrische Klima an vier ausgesuchten stationen in den Schweizer Alpen. I. Übersicht und Probleme.) Germany. Deutscher Wetterdienst, Meteorologische Observatorium Aachen, Tech. Note No. 6, 1 February 1956. Transl., 32 pp.

Jaffry, P., and Hours, R., The Study of Littoral Drift Using Radioactive Tracers. Cahiers Oceanographiques, Paris, 1959, pp. 475-498. Transl., AMS.

[Japan]: Aeronautical Meteorology. Japanese Manual, Koku Kisho Kyoiku No Sanko, 1941. Transl., October 1944, 66 pp. (ATI-113187) (USWBL)

[Japan]: CHO-RS53K Model Code-Type Rawin Sonde Transmitter. Manufactured by Kubota Meteorological Equipment Co. Transl., 14 pp. plus charts. *

[Japan]: Excerpts from: The Japanese Sailing Directions for East Coast of Siberia. Vols. I-II. Japanese Hydrographic Office Publication, 1942. Translation only of paragraphs dealing with ice conditions in the waters of this coast. Transl., 52 pp. (ATI-113186) *

[Japan]: Local Weather Forecast Manual. (Chihobetsu Tenkiyoho Shishin.) January 1952. Translation 1958.

[Japan]: Meteorological Documents. Allied Translation and Interpreter Section, South Pacific Area, Enemy Publ. No. 107 (K-62299), 27 March 1944, 93 pp. (ATI-113198) (USWBL)

[Japan]: Meteorological Material. Army Meteorological Service. Translation of tables of contents of three Japanese books on Meteorology: WDC No. 1678, WDC No. 2804, August 1940; WDC No. 7442, March 1941. Transl., U.S. Navy, No. 112, March 1945, 16 pp. (ATI-113184)

[Japan]: Meteorological Phenomena and Tidal Currents in the South China Area. Transl., PACMIRS, No. 22, 10 November 1945, 157 pp. (ATI-113181) (USWBL)

[Japan]: A Study of Sub-Tropical Lows. Japanese Army Meteorological Bureau Report, 1944. Document captured on Ie Shima. Transl., 25 pp. (ATI-113199)

[Japan]: Toshiba Weather Radars. Pamphlet, Navy/ONI 5100903, 18 August 1960, 6 pp.*

[Japan]: The Weather in the Marshalls for 1943 With Roi Island as the Center. Translation of captured document, April 1944, 20 pp. including charts. *

Jiro, Fukuoka, and Iwao, Tsuki, The Rising of the Coastal Sea Water Temperature in Winter. Report. Transl., Navy/ONI 5103468, 1953.

Kashcheyev, B. L., Radar Observations of Meteors According to the International Geophysical Year Program. (Radiolokatsionnyye nablyudeniya meteorov po programme mezhdunarodnogo geofizicheskogo goda.) V Section of the IGY Program, "Investigation of Ionosphere and Meteors," Moscow, No. 2, 1960, pp. 40-53. Transl., August 1961, 20 pp. * (NASA Tr. TT-F-68) (OTS, Price \$0.50)

Kats, A. L., Weather Forecasting for Three to Seven Days. Predskazaniye na Tri-Sem' Dnei, Gidrometizdat, Leningrad, 1958. Transl., 1959, 125 pp. * (OTS, Tr. JPRS 1911-N)

Kessenikh, V. N., Geophysics and Astrophysics of the Ionosphere. (Geofizika i Astrogel'iofizika Ionosphere.) From: "Propagation of Radio Waves," Chapter 16, Sections 76, 88, 89, 1952, pp. 408-447. Publishing House of Technical-Theoretical Literature, 1952. Transl., 58 pp. (TIC, Tr. 298737, F-TS-10095/V) (AD-40553) *

Khokhlov, P., Microclimate on Ships. Atomnaya Energiya i Flot, Moscow, Military Publication House, 1959, pp. 147-150. (OTS, Tr. JPRS 3044)

Khvostikov, I. V., Night Sky Luminescence. (Svechenienochnogo neba.) 2nd Rev. Ed. Izdatel'stvo Akademii Nauk SSSR, 1948. (PS)

Kondrat'yev, K. Ya., et al., Spectral Albedo of the Vegetative Cover. From: Mezhdunarodnyy Geofizicheskyy God; Sbornik Statey i Materialov, Leningrad, 1960, pp. 35-38. Transl., 18 November 1960, 2 pp. (AD-248411) (AID, Report 60-94)

Koschmieder, Harald, Some Preliminary Results of Squall Observations in Germany in 1939-41. (Einige erste Ergebnisse der deutschen Böenmessungen 1939-41.) Received in manuscript form, later published as Ergebnisse der deutschen Böenmessungen 1939-41. I. Kleinraumig-synoptische Darstellung der Böen. Braunschweig, Vieweg, 1955, 86 pp. Transl., AMS for GRD.

Krasil'schchikov, L. B., and Morozenskiy, A. A., Measurement of the Spectral Intensity of Light Scattered by the Cloud Particles. Report from: "Mezhvedomstvennaya Konferentsiya po Voprosam Issledovaniya Oblakov, Osadkov, i Grozovogo Elektrichstva," 5th ed. Leningrad, 1956, pp. 140-141. (Navy 2517/NRL-792)

Krinov, E. L., Principles of Meteoritics. (Osnovy Meteoritiki.) 391 pp. n.d. (PP)

Kucherov, N. V., and Sternzat, M. S., see Budyko, M. I., Contemporary Problems.....

Kudriavtsev, V. A., Study of the Mechanical and Physical Properties of Ice. (Izuchenie mekhanicheskikh i fizicheskikh svoystv l'da.) Izdatel'stvo Akademii Nauk SSSR, 1957, 63 pp. Transl., AMS for GRD, January 1960, 79 pp. (AD-238957) *

Kurasia, S., Excerpts from: Sea Ice Observations and Drift-Ice Movement Prediction. Transl., 19 February 1960, 4 pp. (Typescr) (Reproduced) *

Laikhtman, D. L., see Budyko, M. I., Contemporary Problems.....

Laktionov, A. F., Drifting Station North Pole-2, Drifting Station North Pole-3, North Pole-4, and North Pole-5, Foreign Investigations in the Central Arctic. (Dreifuiushchaia stantsiia Severnyi polius-2, Dreifuiushchaia stantsiia Severnyi polius-3, Severnyi polius-4, i Severnyi polius-5, Zarubezhnye issledovaniia Tsentral'noi Arktiki.) Norskoj Transport, 1955, pp. 306-346. Transl., AMS for GRD, October 1959, 35 pp. (AD-239511) *

Le Blanc, R. G., Scientific Activities of the Terrestrial Sciences Laboratory of the Geophysical Research Directorate on Fletcher's Ice Island, T-3. Transl. in Washington, Nat. Acad. Sci., Nat. Res. Council, IGY World Data Center A, IGY Glaciol. Rep. Ser. No.-1, 1958. (NAS)

Levin, Yu. B., Origin, Evolution, and Structure of Meteor Swarms, Chapt. IV, From: "Physical Theories of Meteors and Meteoric Material in the Solar System," 1956, pp. 147-190. Transl., 65 pp. (AD-153381) * (TIC, Tr. F-TS-9228/V)

Lozhkina, A. D., and Trestman, A. G., Physical Features. Glavnoye Upravlenie Gidrometeorologicheskoy Sluzhby, Agroklimaticheskij Spravochnik po Tadzhikskoy SSR, Leningrad 1959. Obshchiye Fiziko-Geograficheskiye Usloviya. Chief Administration of the Hydrometeorological Service. Agroclimatic Manual for Tadzhikskaya SSR, pp. 5-8. Transl., Corps of Engineers, U.S. Army, October 1960, 6 pp. (On loan only)

Makkink, G. F., The Evapotranspiration of Grassland in 1956. Institut voor Biologischen Scheikundig Onderzoek van Landbouwegwassen, 1957, pp. 69-72. (CSIRO, Tr. 4311)

Masumitsu, Susuki, Fog Measuring Apparatus. Patent. Publ. 9 December 1953, No. 1953/6364. (CSIRO)

Meyer, R., Atmospheric Refraction. (Atmosphärische Strahlenbrechung.) From: "Handbuch der Geophysik," Vol. 8, 1955-1956, pp. 769-821. Abstract in Meteorological Abstracts and Bibliography, No. 10, October 1959, p. 1467. *

Michitaka, Uda, On the Variation of Water Temperature Due to the Passage of Typhoon. (Navy/ONI 5103468, 1955)

Minkh, A. A., Air Ionization and Its Hygienic Importance. (Ionizatsiya Vozdukha i ee Gigenicheskoe Znachenie.) Published by Medgiz, Moscow, 1958. Translation of Chapters I, II, III, IV, 133 pp. *

Mironov, A. V., et al., The Observation of the Aurora of 10-11 February 1958 Near Moscow. (Nabliudenie poliarnogo siianiia 10-11 fevralia 1958, g. pod Moskvoi.) In: Spectral, Electrophotometric and Radar Research on Aurorae and Night Airglow. (Spektral'nye elektrofotometricheskiye i radiolokatsionnye issledovaniya polyarnykh siyanii i svecheniya nochnogo neba.) 1959. Transl., AMS for GRD, July 1959, pp. 21-31. (AD-228193) *

- Misme, Pierre, The Correlation Between the Electric Field at a Great Distance and a New Radio-Meteorological Parameter. (Corrélation entre le Champ Électrique à Grand Distance et un Nouveau Paramètre Radio-Météorologique.) National Bureau of Standards (NBS) Report No. 5530. Translation by M. C. Thompson, Jr., and Ann Falls, October 1957, 28 pp. incl. illus. (In cooperation with Centre National d'Études des Télécommunications) (French and English text). (AD-157024) *
- Monakhov, F. I., et al., Seismic and Microseismic Observations at the Soviet Stations During the International Geophysical Year. (Seismicheskie i mkfroseismicheskie nabljudeniia na sovetskikh stantsiiakh v period MGY.) Izdatel'stvo Akademiia Nauk SSSR, 1959. Transl. by Judith I. B. Danner, AMS for GRD, December 1959, 42 pp. incl. illus. tables. (AD-233287) *
- Mulyarchik, T. M., Experiment in the Interferometric Investigations of the Emission Lines in Aurorae. (Opyt interferometricheskogo issledovaniia emissionnykh linii v polairnykh silaniakh.) In: "Spectral, Electrophotometric and Radar Research on Aurorae and Night Airglow." Transl. by John Miller, AMS for GRD, July 1959, pp. 55-56. (AD-228193) *
- Murauchi, S., and Yoshida, Y., Abstract: Reports of Sea Ice Observation of the Japanese Antarctic Research Expedition 2, 1957-58. Japanese Antarctic Records, No. 8, 1959, pp. 464-481. Tokyo Ministry of Education, references in Japanese, English abstract. (BMOL)
- Myukhkyurya, V. I., An Electrophotometer for Measuring the Intensity and Polarization of Light Scattered by Cloud Particles. Report from: "Mezhvedomstvennaya konferentsiya po Voprosam Issledovaniya Oblakov, Osadkov i Grozovogo Elektrichstva," 5th ed. Leningrad, 1956, p. 139. (Navj 2515/NRL 790)
- Nasilov, D. N., Radiometeorology. (Radiometeorologiya.) State Publishing House for Technical and Theoretical Literature, Moscow, 1956, 215 pp. (TIC, Tr. F-TS-9818/V)
- Nikandrov, V. Ya., Action of Solid CO₂ on Supercooled Clouds and Fogs. From: "Artificial Modification of Clouds and Fogs," 1959, pp. 103-126. (ATS, Tr. RJ-2863, Price \$24.60, extra copies \$4.40)
- Nikandrov, I. Ya., see Budyko, M. I., Contemporary Problems.....
- Obruchev, V. A., Fundamental Concepts and Terms in Geocryology (Permafrost Studies). (Osnovnyye Ponyatiya i Terminy Geokriologii, Merzlotovedniya.) Izdatel'stvo Akademiia Nauk SSSR, 1956. Transl., Research and Development Laboratory, Corps of Engineers, U. S. Army. (AD-238977) *
- Obukhov, A. M., see Budyko, M. I., Contemporary Problems....
- Ostroumov, G. A., Free Convection Under the Conditions of the Internal Problem. (Svobodnaya konvektatsiia v Ousloviakh Vnutrennei Zadachi.) State Publishing House, Technico-Theoretical Literature, Moscow, 1952. Transl., April 1958, 233 pp. (AD-156846) * (NASA, Tr. TM-1407)

- Petrov, L. S., Notes on the Problem of the Relation Between Present Fluctuations of the Arctic Climate and Circulation of the Atmosphere and Solar Activity. Mezhdunarodnyy Geofizicheskiy God, Sbornik Statey i Materialov, 1960, pp.216-223. (OTS, Tr. JPRS 9298)
- Pogosian, Kh. P., Jet Streams in the Atmosphere. (Struinye Tsecheniya v Atmosfere.) 1960, 178 pp. Transl., AMS for GRD, 188 pp.
- Poloskov, S. M., and Mirtov, B. A., Study of the Upper Atmosphere by Means of Rockets at the USSR Academy of Sciences. Presented at the Congrès International des Fusées et Engines Guides, Paris, December 3-8, 1956. In: "A Casebook on Soviet Astronautics - Part II," by F. J. Krieger, pp. 151-162. (AD-133018) *
- Prokudinam, V. A., Observation of the Line λ 6562 Å in the Night Sky Spectrum. (O Nabludenií linii λ 6362 Å v Spektre Nochnogo Neba.) From: "Spectral, Electrophotometric and Radar Research on Aurorae and Night Airglow," pp. 57-59. Transl. by John Miller, AMS for GRD, July 1959. (AD-228193) *
- Queney, Paul, The Influence of Ground Contour on Air Flow. (Recherches relatives a l'influence de relief sur les elements météorologiques.) These présentée a la faculté des sciences de l'Université de Paris, 1936, 97 pp. Translated and condensed by W. W. Elsasser, Columbia Univ., N. Y., September 1944, 27 pp. (ATI-110393) *
- Ragner, Thoren, Photographic Reconnaissance and Interpretation of Sea Ice in the Arctic, Stockholm, 1958. Pamphlet, Navy/ONI 5063997, 8 pp.
- Rakipova, L. R., Heat Processes in the Atmosphere. (Teplovoy Rezhim Atmosfery.) Gidrometeorologicheskoe Izdatel'stvo, Leningrad, 1957, 183 pp. Transl., September 1959, 216 pp. * (TIC, Tr. F-TS-9820/V)
- Ráthly, Antal, Excerpts: The Climate of Budapest. (Budapest éghajlata.) Budapest, A Budapesti Központi Gyógy-és Udülöhelyi Bizottság Rheuma és Fürdőkutató Intézete Kiadványa, 1947, 145 pp. Transl., AMS, 20 pp.
- Rodionov, S. F., Night-Sky Luminosity and Solar Activity. Fizika Solnechnykh Korpuskulyarnykh Potokov i Ikh Vozdeystviye na Verkhnyuyu Atmosferu Zemlii; Trudy Konferentsii Komissi po Issledovaniyu Solntsa, 22-24 Noyabrya 1955 g, Moscow, 1957, pp. 269-272. (TIC, Tr. MCL-309/III)
- Rössmann, Fritz, Method for Fighting and Destroying Whirlwinds and Tornadoes. German Patent No. 834,296. (U.S. Patent Office)
- Rusin, N. P., see Budyko, M. I., Contemporary Problems....
- Sasabe, R., Manual for Trainees in the Regular Signal Course (Meteorology). Portion of a Navy Meteorological Manual for Signal Course Trainees, October 1939. Translated from a Japanese captured document in the Lae area, September 1943. Published July 1944, 36 pp. (ATI-113164)
- Schmidt, R., New Instruments for Measuring Flight Characteristics. Lilienthal-Gesellschaft fuer Luftfahrtforschung, August 1944. Translated from a captured document, September 1948, 2 pp. (ATI-38993) *

- Severnyy, A. B., Variable Processes in Solar Flares as a Phenomenon of Pinch-Effect. Paper presented at Moscow Meeting in August 1958, 18 pp. Transl., February 1961, 32 pp. (TIC, Tr. MCL-82) (AD-257651) (OTS, Price \$2.60)
- Sharonov, V. V., Photometric Conditions of the Visibility of Noctilucent Clouds. In: Mezhdunarodnyy Geofizicheskiy God; Sbornik Statey i Materialov. (International Geophysical Year; Collection of Articles and Materials.) Leningrad, 1960, pp. 12-13. (AD-248408) * (AID, Tr. 60-91) (OTS, Tr. JPRS 9272)
- Shefov, N. N., The Intensity of Some Twilight and Night Sky Emissions. (Intensivnosti nekotorykh emissii sumerechnogo i nochnogo neba.) From: "Spectral, Electrophotometric and Radar Research on Aurorae and Night Airglow," 1959. Transl. by John Miller, AMS for GRD, July 1959, pp. 33-39. (AD-228193) *
- Shuiskaya, F. K., Some Results of the Spectroscopic Study of Aurorae and Airglow. (Nekotorye resul'taty spektroskopicheskikh issledovaniy poliarnykh silanii i izlucheniya nochnogo neba.) From: "Spectral, Electrophotometric and Radar Research on Aurorae and Night Airglow," 1959. Transl. by John Miller, AMS for GRD, July 1959, pp. 61-64. (AD-228193) *
- Shumskiy, P. A., Deposition of the Snow Cover, Part II. Osnovy Strukturnogo Ledovedeniya, Chapt. VI, 1955, pp. 5-149, 239-248. Transl., AMS for GRD, 12 pp.
- Solov'yev, V. A., On the Method of Measuring the Charges and Dimensions of Fog Droplets. From: "Mezhvedomstvennaya Konferentsiya po Voprosam Issledovaniya Oblakov, Osadkov, i Grozovogo Elektrichstva," 5th ed. Leningrad, 1956, pp. 170-172. (Navy 2518/NRL-795)
- Stoiculescu, St. M., Some New Data for the Summary Characterization of the Climate of Dobruja. From: "Realizari in Geografia RPF in Perioada 1947-1957," Bucharest, 1958, pp. 48-57. (OTS, Tr. JPRS 1164-N)
- Svyatlovskiy, A. Ye., Tsunami; Destructive Waves Caused by Submarine Earthquakes in Seas and Oceans. (Tsunami; Razrushitel'nyye Volny v Voznikayushchiye pri Podvodnykh Zemletryaseniya v Moryakh i Oceanakh.) Translation 1957, 70 pp.
- Takematsu, O., Aviation Meteorology. (Koku Kisho Gaku.) December 1942. Transl., April 1955, 23 pp.
- Tatarskiy, V. I., Theory Fluctuating Phenomena in the Propagation of Waves in a Turbulent Atmosphere. (Teoriya Fluktuatsionnykh Yavleniy pri Rasprostraneni Voln v Turbulentnoy Atmosfere.) 1959, pp. 3-232. (OTS, Tr. JPRS 5174)
- Temnikova, N. A., The Climate of the Northern Caucasus and the Contiguous Steppes. (Klimat Severnogo Kavkaza i prilozhashchikh stepey.) Main Administration for Hydrometeorological Services Under the Council of Ministers USSR, Gidrometeorologicheskoye Izdatel'stvo, 1959, Leningrad. (OTS, Tr. JPRS/R-1243-D)

- Ter Meulen, C. L., Tidal Movements in the Rivers of Zeeland and Southern Holland, Summarized in 12 Charts, One for Each Hour of Tide and Supplemented with Notes. (De Getijde-Bewegingen op de Zeeuwsche en Zuidhollandse Stroomten Samengevat in 12 Kaartjes, voor ieder uur van het getij een en voorzien van aantekeningen door.) Published by Bureau for Inland Water Travel of the A.N.W.B. Toeristenbond for the Netherlands and of the Royal Assoc. of Netherlands Watersport Clubs. Keizersgracht. Transl. by Weather Research Center, Hq AAF, August 1942, 54 pp. plus charts. *
- Tikhov, G. A., Principal Works -- Astrobotany and Astrophysics, 1912-1957. (Osnovnyye Trudy, Astrobotanika i Astrofizika (1912-1957).) Vol. IV, Alma-Ata, 1959, pp. 3-256. (OTS, Tr. JPRS 2344)
- Timofeev, M. P., Heat Balance and Microclimate. (Teplovoi Balans i Mikroklimat.) Glavnoe Upravlenie Gidrometeorologicheskoi Sluzhby. Heat and Water Regime of Earth's Surface. (Teplovoi i Vodnyi Rezhim Zemnoi Poverkhnosti.) A Collection of Articles edited by I. P. Gerasimov, et al., Leningrad, Gidrometeoizdat., 1960, pp. 120-127, tables, graphs, (of 192 p.) Transl. by Irene A. Donehoo, USWB, March 1961, 10 pp. *
- Timofeev, M. P., see Budyko, M. I., Contemporary Problems.....
- Timofeyev, V. T., Water Masses of the Arctic Basin. Published by Hydrometeorological Publication House, Leningrad, 1960, pp. 1-192. (Navy 2729/HO-118)
- Troll, Carl, Structure Soils, Solifluction, and Frost Climates of the Earth. (Strukturboden, Solifluktion, und Frostklimate der Erde.) Transl., October 1958, 121 pp. incl. illus. tables, 416 refs. (AD-211333) * (USACRR, Tr. No. 43)
- Tseseyev, V. P., First Results of the International Geophysical Year. (Pershi Pidsunky Mizhnarodnogo Geofizichnogo Roku.) 1959. (OTS, Tr. JPRS 6629)
- Tsytoich, N. A., and Sumgin, M. I., Principles of Mechanics of Frozen Ground. (Osnovaniia mekhaniki merzlykh gruntov.) Izdatel'stvo Akademii Nauk SSSR, Moscow-Leningrad, 1937. Translated from Russian by E. A. Golomshtok, Stef. Lib., Parts I, II, Chapters 1 through X. (USACRR, Tr. No. 19)
- Tum, P. P., The Aral Sea: Navigational, Geographic and Hydrometeorological Essays. (Aral'skaya Mors: Navigatsionno-Geograficheskiy i Gidrometeorologicheskii Ocherk.) 1960, pp. 1-43. (OTS, Tr. JPRS 9448)
- USSR, Communication Concerning Scientific Works in the Field of Geomagnetism and and Aeronomy During 1957-1959. USSR Academy of Sciences, Geomagnetism and Aeronomy Section of the Committee on Geodesy and Geophysics. Transl., March 1961. (AD-253305) * (NASA, Tr. TT-F-60)
- USSR, Decisions Reached by the Shore Section of the Oceanographic Commission on 26-30 November 1955. From: Materialy Sektsii po Izucheniyu Beregov Morey i Vodokhranilishch, 1957, pp. 198-204. Transl., AMS.
- USSR, Geography of the Snow Cover. (Geografiya Snezhnoy Pokrovy.) Transl., 333 pp.

- USSR, Instructions for Hydrometeorological Stations and Posts #8. Manual of Hydro-meteorological Observations in Swamplands. Hydrometeorological Publishing House, 1955, pp. 5-229. (Excerpts, pp. 5-93) *(DT, Met. Transl. No. 6, 1961)
- USSR, Physics of the Lowest Layer of the Atmosphere and the Atmospheric Turbulence. (Fizika Prizemnogo Sloya Atmosfery i Atmosfernaya Turbulentnost'.) 1957. (OTS, Tr. AEC/SCL-T-284)
- USSR, Problems of the Physiological Effect and Therapeutic Application of Air Ions. Published by Academy of Sciences of the Latvian SSR Institute, Riga, 1959, pp. 29, 51, 52, 59, 76, 77, 95, 116, 117, 133, 134, 150, 151, 160, 169, 170, 184, 202, 203, 213, 230, 237-240, 247, 264, 272, 277, 278, 281-284, 295, 304, 305, 318, 328, 338, 339, 348, 362, 371, 372, 377, 384, 396, 397, 404, 420, 421. Transl., 19 October 1959, 20 pp. * (Navy 2356/ONI 622)
- USSR, Report on Scientific Work in Meteorology and Physics of the Atmosphere 1957-1959. (Sobshcheniye o Nauchnykh Rabotakh po Meteorologii Fizike Atmosfery 1957-1959.) 1960, pp. 1-204. (OTS, Tr. JPRS 7455)
- USSR, Results of Observations of Soviet Artificial Earth Satellites 16 May-30 June 1958. (Rezult'aty Nablyudeniya Sovetskikh Iskusstvennykh Sputnikov Zemli 16 May-30 June 1958.) (OTS, Tr. JPRS 658-D, Price \$0.75)
- USSR, Scientific Work in Meteorology. (Sobshcheniye o Nauchnykh Rabotakh po Meteorologii.) Moscow, 1957, pp. 3-51. (OTS, Tr. JPRS/DC-L-972)
- USSR, Soviet Expedition to the North Pole 1937. From: Trudy Dreifuishchei Stantsii "Severnyi Polius"; Nauchnye Otnety i Rezult'aty Nablyudeniya Dreifuishchei Ekspeditssii Glavsevmorputi 1937-1938 gg. Leningrad. Izdatel'stvo Glavsevmorputi, Vol. I, 1940, pp. 7-114, 209-334. Transl., AMS for GRD.
- USSR, Selected Articles from: Investigation of the Ionosphere and Meteors. (Issledovaniya ionosfery i meteorov.) Izdatel'stvo Akademii Nauk SSSR, 1960, pp. 7-39. (AD-253565) * Contents:
- Al'pert, Ia. L., "Certain Questions of the Statistical Irregularity of the Ionosphere."
- Gershman, B. N., and Ginzburg, V. L., "The Formation of Ionospheric Irregularities."
- Grishkevich, L. V., et al., "Results of Investigations of Ionospheric Irregularities and Their Drifts, Obtained at Soviet Stations During the IGY."
- Kessenkikh, V. N., "Possible Mechanisms of the Connection Between the Synoptics of the Ionosphere and the Troposphere."

USSR, Selected Articles from: The Physics of Solar Corpuscular Streams and Their Influence on Upper Atmosphere of the Earth. Izdatel'stvo Akademii Nauk SSSR, 1957. (AD-236576) * Contents:

Isaev, S. I., "Hydrogen Radiation in the Spectrum of Polar Aurorae."

Mogileskii, E. L., "The Equation of Quasistationary Ionization Equilibrium in the F2 Region and Solar Corpuscular Radiation."

Mustel, E. R., "Discussion of the Possible Sources of Geoactive Corpuscles in the Solar Envelope."

Nikol'skii, A. P., "Magnetic Disturbances in the Region Near the Pole and the Existence of a Second Zone of Their Increased Intensity."

Ol', A. L., "The Connection Between Solar Activity and Geomagnetic Disturbances."

Ponomarev, E. A., "Solar Corpuscular Radiation and the Topology of the Magnetic Field in the Solar Corona."

Severnyi, A. B., "Spectroscopic Investigation of Corpuscular Ejections on the Sun."

USSR, Spectral, Electrophotometric and Radar Research on Aurorae and Night Airglow. (Spektral'nye, elektrofotometricheskie i radiolokatsionnye issledovaniia polairnykh silanii i svecheniia nochnogo neba.) Izdatel'stvo Akademii Nauk SSSR, 1959. (AD-228193) * Contents:

Galperin, Iu. I., "Hydrogen Emission and Two Types of Aurorae Spectra."

Mironov, A. V., et al., "The Observation of the Aurora of 10-11 February 1958 Near Moscow."

Shefov, N. N., "The Intensity of Some Twilight and Night Sky Emission."

Dzhordzhio, N. V., "Electrophotometric Measurements in the Auroral Zone."

Mullarchik, T. M., "Experiment in the Interferometric Investigations of the Emission Lines in Aurorae."

Prokudina, V. S., "Observation of Line λ 6562 Å in the Night Sky Spectrum."

Shuiskaia, F. K., "Some Results of the Spectroscopic Study of Aurorae and Airglow."

USSR, Structure and Physical Properties of the Ice Cover of Fresh Water Bodies, 1936. *

USSR, Utilization of Solar Energy. (Ispol'zovanie Solnechnoy Energii.) 1957, 247 pp.
(TIG, Tr. F-TS-9651/V, September 1959) *

Valerianov, M. A., Abstract: An Attempt to Typify the Baric Fields Over the North Atlantic in Order to Calculate Currents and Ice Drifts. (Popytka Tipizatsii Baricheskikh Polei Nad Severnoi Atlantiko Dlia Rascheta Technii i Dreifa L'dov.)
From: "Papers of the Conference on the Problem, Interaction Between the Atmosphere and the Hydrosphere in the North Atlantic," Leningrad, 1958. (Navy H.O. No. 15868, P.O. 61153, Tr. No. 1907/HO-42) *

Vasilyev, L. L., Comparative Characteristics of the Physiological Effect of Light and Heavy Aerosols. Leningrad University, 1959. Transl., 1960? 24 pp. *

Veynberg, B. P., Optics in Installations for the Utilization of Solar Energy. (Optika v ustanovkakh dlya ispol'zovaniya solnechnoy energii.) State Publishing Office for the Defense Industry (Oborongiz) Moscow, 1959. Transl., 185 pp. *

Vogel, M., The Spectral Band Between the Longwave Infra-red and the Microwaves. Present Position and Tendencies of Development. (Das Spektralgebiet Zwischen dem Langwelligen ultrarot und den Mikrowellen Stand der Technik und Entwicklungstendenzen.) DVL Report No. 29, June 1957, Germany. (AD-227989) * (TILS)

Vorontsov, P. A., see Budyko, M. I., Contemporary Problems...

Watanabe, N., and Hirano, T., An Attempt to Predict the Surface Temperature of the North-Eastern Sea Adjacent to Japan for the Summer. Transl., 1955. (Navy/ONI 5103468)

Watanabe, N., Hydrographic Condition of the North-Western Pacific, Part I -- On the Temperature Change of the Upper Layer in Summer. Transl., 1955. (Navy/ONI 5103468)

Wippermann, F., and Klug, W., Minimum Smokestack Heights. Their Determination From the Principles of Turbulent Diffusion in the Atmosphere. Schornsteinmündesthöhen, 1960. Transl., 45 pp. AMS.

Wonnacott, T. H., Direct Measurement of Power Spectra by an Analog Computer. Transl., 1959. (NRC, Report Mk-5)

Zatrutina, R. F., and Mikhaylova, Z. M., International Geophysical Year Bibliography of Literature in the Russian Language for 1958. Translated from compilation made under the auspices of the Mezhdunarodnyy Komitet po Provedeniyu Mezhdunarodnogo Geofizicheskogo Goda pri Presidiume Akademii Nauk SSSR. Interdepartmental Committee for the Conduct of the International Geophysical Year Under the Presidium of the Academy of Sciences of the USSR, Moscow, 1959. (AD-236117) *

Zavarina, M. V., The Atmosphere. (Atmosfera.) Gidrometizdatvo, Leningrad, 1956. Translation of various sections, 127 pp. refs. figs. (USWBL)

Zotin, M., and Kondrashev, K., Polar Hydrometeorological Service. Arctic Scientific-Explorative Institute of the Main Northern Sea Route of the Ministry of Sea Fleet. Transl., 1959, 3 pp. * (Navy 2325/ONI 610)

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Zubov, N. N., Index of Atmospheric Turbulence, Chapt VIII. (O pokazatele nespokoinosti atmosfery); The Interaction of Sea and Atmosphere, Chapt XII. (K voprosu o vzaimodeistvii moria s atmosferoi); Some Features of Evaporation in the Sea, Chapt XXVIII. (Nekotorye osobennosti isparenii v more.) Selected papers in Oceanography (on the author's 70th Birthday). (Izbrannye trudy i okeanologii (k 70 letiiu so dnia rozhdeniia avtora.) Voennoe Izdatel'stvo Ministerstva Oborony Soiuza SSSR, 1955, pp. 171-176, 204-214, 443-456. Tr. isl., February 1960, 28 pp. (AD-238322) *

Zuev, M. V., see Budyko, M. I., Contemporary Problems.....

Zverev, A. S., Synoptic Meteorology. (Sinopticheskaya Meteorologiya.) Part I of 2 Parts, Chapt. 1-6, pp. 1-394; Chapt. VII-IX, of Part II, pp. 395-689. Transl., April 1960. * (TIC, Tr. F-TS-9817/V)



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