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REF ID: A62742
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BIBLIOGRAPHY OF
SOVIET MATERIAL ON
INTERNAL WAVES

No. 6, November 1975 - April 1976

Sponsored by
Defense Advanced
Research Projects Agency

May 7, 1976

DARPA Order No. 3097, Amendment 1

DARPA Order No. 3097, Amendment 1
Program Code No. 6L10, Program Element Code 62711E
Name of Contractor:
Informatics Inc.
Effective Date of Contract:
March 16, 1976
Contract Expiration Date:
September 17, 1976
Amount of Contract: \$109,724

Contract No. MDA-903-76C-0254
Principal Investigator:
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Short Title of Work:
"Internal Waves"

This research was supported by the Defense Advanced Research Projects Agency and was monitored by the Defense Supply Service - Washington, under Contract No. MDA-903-76C-0254. The views and conclusions contained in this document are those of the author and should not be interpreted as necessarily representing the official policies, either express or implied, of the Defense Advanced Research Projects Agency or the United States Government.

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Bibliography of Soviet Material on Internal Waves, Number 6 November 1975 - April 1976		5. TYPE OF REPORT & PERIOD COVERED Scientific . . . Interim
7. AUTHOR(s) G. Hibben, L. H. Boylan, M. Ness		6. PERFORMING ORG. REPORT NUMBER MDA-903-76C-0099
9. PERFORMING ORGANIZATION NAME AND ADDRESS Informatics Inc. 6000 Executive Boulevard Rockville, Maryland 20852		8. CONTRACT OR GRANT NUMBER(s) DARPA Order No. 3097 Program Code No. P6L10, P6D10, P6E20, P6G10
11. CONTROLLING OFFICE NAME AND ADDRESS Defense Advance Research Projects Agency/TAO 1400 Wilson Blvd. Arlington, Va. 22209		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) Defense Supply Service - Washington Room 1D245, Pentagon Washington, D. C. 20310		12. REPORT DATE May 7, 1976
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		13. NUMBER OF PAGES 37
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) 9 Interim rept.		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE 11 7 May 76
18. SUPPLEMENTARY NOTES Scientific . . . Interim		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Internal Waves Microwave Radiometry Capillary Waves Surface Signature Turbulent Flow Ocean Microstructure		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This is the sixth bibliography of Soviet open-source publications relating to internal wave studies. It covers material received from November 1975 through April 1976. Main selection criteria are studies of small-scale variation in ocean parameters and of airborne techniques for deducing internal wave conditions. An index of serial source abbreviations is appended.		

INTRODUCTION

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An index of serial source abbreviations is appended.



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2. Ambrosimov, A. K., and N. V. Vershinskiy. Thermoelectric gradient meter. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 146-149. (RZhGeofiz, 11/75, #11V30)
3. Andryushchenko, A. A., and V. I. Belyayev. Optimizing station deployment of a network for simultaneous measurement of several statistically related oceanographic fields. FAiO, no. 10, 1975, 1047-1054.
4. Agulykov, A., K. Ye. Dzhaugashtin, and L. P. Yarin. Investigation of the structure of three-dimensional turbulent streams. MZhiG, no. 6, 1975, 13-21.
5. Babaylov, E. P., V. Z. Goldovskiy, D. D. Plakhov and O. V. Yarygin. Device for reducing ultrasonic pressure from a propeller in the vicinity of the transmitter for a fish-finding sonar. Otkr izobr, no. 4, 1976, 131.
6. Babiyl, M. V. Propagation of long waves in a multi-layered rotating fluid above a rough bottom. IN: Morskiye gidrofizicheskiye issledovaniya, no. 1, 1975, 70-77. (RZhGeofiz, 2/76, #2V96)
7. Babiyl, M. V., and L. V. Cherkesov. Generation of internal waves by an underwater obstacle. FAiO, no. 9, 1975, 971-975.
8. Babiyl, V. I. Test results for a hydrophysical measuring system, based on acoustic methods. IN: Morskiye hidrofizicheskiye issledovaniya, no. 2, 1975, 166-177. (RZhGeofiz, 2/76, #2V33)
9. Belinskiy, B. P. Diffraction of plane underwater acoustic waves on the rib stiffening system of an elastic plate. Voprosy dinamicheskoy teorii rasprostraneniya seismicheskikh voln, no. 12, 1974, 20-25. (LZhS, 33/75, #108346)

10. Belyayev, V. S., I. D. Lozovatskiy, and R. V. Ozmido^v. Investigation of relation between characteristics of fluctuations of electric conductivity and vertical temperature profiles in the ocean. FAIO, no. 10, 1975, 1078-1083.
11. Belyayev, V. S., A. N. Gezentsvey, I. D. Lozovatskiy, and R. V. Ozmido^v. Some features of small-scale fluctuations of electric conductivity in the sub-Antarctic and Antarctic water structures. Okeanologiya, no. 4, 1975, 605-610.
12. Benilov, A. Yu. Applying the technique of filtering of random processes to analysis of oceanological measurements. IN: Problemy eksperimental'nykh issledovaniy v okeane (Okeanologicheskiye issled. no. 27). Moskva, Nauka, 1975, 97-100.
13. Benilov, A. Yu., et al. Problem of turbulence spectrum in a shear flow. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 101-104. (RZhGeofiz, 11/75, #11V60)
14. Boguslavskiy, Yu. Ya. Theory of finite-amplitude waves under conditions of first-order phase transitions. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 366-369. (RZhF, 10/75, #10Zh716)
15. Boguslavskiy, S. G., and A. A. Vostroknutov. Layered structure of the thermocline. IN: Morskiye hidrofizicheskiye issledovaniya, no. 3, 1974, 25-30.
16. Bolgov, V. M., D. D. Plakhov, and V. A. Postnikov. Physical causes of nonstationarity of acoustic noise during operation of hydroacoustic instruments aboard fishing vessels. Rybnoye khozyaystvo, no. 10, 1975, 56-58.

17. Bolonov, N. I., I. L. Povkh, T. T. Sobolevskaya, and A. M. Kharenko. Analysis of stationary turbulence by digital methods. Donetskiy universitet. Donetsk, 1975, 12 p. (RZhMekh, 1/76, #1B117 DEP)
18. Borisenko, Yu. D., A. G. Voronovich, A. I. Leonov, and Yu. Z. Miropol'skiy. Theory of nonstationary weak nonlinear internal waves in a stratified fluid. FAiO, no. 3, 1976, 293-301.
19. Borisenkov, Ye. P. Some energy properties of a baroclinic ocean. FAiO, no. 1, 1976, 48-56.
20. Borodin, P. M. Method for measuring the intensity of the turbulent motion of a liquid. Otkr izobr, no. 2, 1976, 122.
21. Brekhovskikh, L. M., V. V. Goncharov, and V. M. Kurtepov. One-dimensional problems in the nonlinear theory of waves in the ocean. Okeanologiya, no. 6, 1975, 949-954.
22. Bubnov, V. A. Vertical turbulent exchange in the ocean near the equator. Trudy Instituta okeanologii AN SSSR, no. 102, 1975, 47-50. (RZhGeofiz, 12/75, #12V56)
23. Bukina, L. A., P. V. Mironov, and N. K. Shelkovnikov. Structure of the coefficient of turbulent viscosity in an open flow. VMU, no. 5, 1975, 583-587.
24. Butrova, N. V., I. Ye. Timchenko, and D. V. Yarin. Sequential analysis of observations made at a stationary network of ocean stations. IN: Morskiye gidrofiz. issled., no. 1, 1975, 91-101. (RZhGeofiz, 2/76, no. 2V59)
25. Cherkas, E. L., N. A. Antonov, and L. D. Aleksandrov. Towing system for an underwater instrument platform. Otkr izobr, no. 41, 1975, 76.

26. Chernysheva, Ye. S. Investigating parameters of internal waves by numerically solving hydrodynamic equations for a two-layered liquid. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 28-31. (RZhGeofiz, 11/75, #11V119)
27. Chistyakov, A. I. Towed stabilized device. Otkr izobr, no. 40, 1975, 92.
28. Chvertkin, Ye. I., and A. K. Boldyrev. Transmittance of an underwater acoustic communication channel for hydrological buoys. Okeanologiya, no. 5, 1975, 919-921.
29. Davidenko, L. A., and R. V. Protopopov. Measurement of reflection coefficient of sound. Akustika i ul'trazvukovaya tekhnika, no. 10, 1975, 88-92.
30. Demidenko, T. F., and V. I. Shmal'gauzen. Effect of turbulent noise on a real pressure sensor. VMU, no. 5, 1975, 579-582.
31. Dmitrevskiy, N. N., L. Ye. Pavlov, and S. V. Sil'vestrov. Calibration of hydrophones in a chamber with active loads. IT, no. 7, 1975, 74-75.
32. Dmitriyev, N. M., and M. V. Lur'ye. Rheologic model of anisotropic turbulence. DAN SSSR, v. 225, no. 4, 1975, 775-777.
33. Dobrovolskiy, Yu. Yu. Anomalous properties of acoustic, periodically phased antenna arrays. Akusticheskiy zhurnal, no. 6, 1975, 876-881.
34. Dotsenko, S. V., M. G. Poplavskaya, and G. A. Tolkachenko. Calculating parameters of space-time variability of a physical field from experimental data. IN: Morskiye gidrofizicheskiye issledovaniya, no. 2, 1975, 60-67. (RZhGeofiz, 2/76, #2V62.)
35. Dotsenko, S. V., M. G. Poplavskaya, and G. A. Tolkachenko. Measurement of two-dimensional random fields. IN: Morskiye gidrofizicheskiye issledovaniya, no. 2, 1975, 45-59. (RZhGeofiz, 2/76, #2V61)

36. Done, V. N., and V. L. Naryadovoy. Solving fundamental equations of wave transformation at the surface of a fluid flow. IN: Trudy Novocherkasskogo inzhenerno-melioratsionnogo instituta, no. 7, 1974, 156-163. (RZhMekh, 6/75, #6B497)
37. Dragan, Ya. P., and I. N. Yavorskiy. Construction of a mathematical model for sea waves. Otbor i peredacha informatsiy no. 43, 1975, 27-35.
38. Dubnishchev, Yu. N., A. R. Yevseyev, V. S. Sobolev, and Ye. N. Utkin. Investigation of gas-saturated turbulent flows with a laser Doppler flowmeter. ZhPMTF, no. 1, 1975, 147-153.
39. Dvoryaninov, G. S. Excitation of stationary motion in the ocean and the atmosphere by thermal waves. FAiO, no. 1, 1976, 57-67.
40. Dyubchenko, M. Ye., and L. A. Davidenko. Investigation of wide-band hydrophones. Akustika i ul'trazvukovaya tekhnika, no. 10, 1975, 51-54.
41. Fedorov, K. N., and V. P. Shevtsov. Measurement of flow velocities in the ocean by the method of vertical sounding. IN: Sb. Problemy eksperimental'nykh issledovaniy v okeane (Okeanologicheskiye issled., no. 27) Moskva, Nauka, 1975, 72-79.
42. Filonov, A. Ye. Determining parameters of internal gravity waves by computer-aided numerical integration of the wave equation. Promyslovaya okeanologiya, Ekspress informatsiya, no. 7, 1975, 1-10.
43. Filonov, A. Ye. Some results of a study on spatial-time scales of internal waves in the 1970 Atlantic test area. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 25-27. (RZhGeofiz, 11/75, #11V118)
44. Filonenko, N. N., and L. P. Mel'nik. A method for solving simplified equations for nonlinear wave interaction in inhomogeneous media. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 3-6. (RZhF, 11/75, #11Ye779)

45. Gaydyukov, A. A., and K. N. Fedorov. Density inversions in the ocean. FAIO, no. 1, 1976, 68-75.
46. Genkin, A. L., V. I. Kukes, and L. P. Yarin. Measurement of turbulent pulsations in nonisothermal jets. TVT, no. 1, 1976, 152-156.
47. Glotov, V. P. Effect of trace beryllium and boron on dilatational viscosity of water, and on low-frequency attenuation of sound in the sea. Akusticheskiy zhurnal, no. 1, 1976, 125-126.
48. Gol'dberg, Z. A. Parametric phenomena in a field of standing elastic waves. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 430-433. (RZhF, 10/75, #10Zh705)
49. Goncharov, V. P. Canonical variables for inhomogeneous media. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 109-112. (RZhF, 10/75, #10Zh701)
50. Grigorkina, R. G. Spectrum of large-scale horizontal turbulence in a shallow sea. IN: Trudy Arkticheskogo i antarkticheskogo NII, no. 321, 1975, 73-88. (RZhMekh, 9/75, #9B413)
51. Grinberg, K. B., and G. S. Belogrudov. Digital period meter for a hydrophysical probe. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 179-181. (RZhGeofiz, 11/75, #11V24)
52. Grishin, G. A., and V. V. Yefimov. Effect of viscosity on internal waves generated by disturbances in atmospheric pressure. FAIO, no. 2, 1976, 176-185.
53. Gushchin, O. A. Nature of turbulent mixing in a stratified ocean. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 44-46. (RZhGeofiz, 12/75, #12V53)

54. Gusyakov, V. K. Some properties of Rayleigh ocean waves, excited by an underwater earthquake. IN: Trudy Sakhalinskogo kompleksnogo nauchno-issledovatel'nogo instituta, no. 32, 1973, 49-60. (LZhS, 29/75, #94812)
55. Gutshabash, S. D., and V. M. Kochetkov. Radiation field in the two-layered medium formed by the atmosphere and ocean, for the case of a wavy interface. FAIO, no. 12, 1975, 1272-1283.
56. Ivanenko, G. V. Spectrum of hydrodynamic turbulence. IN: Kompleksnye issledovaniya v Mirovom okeane. Moskva, 1975, 105-108. (RZhMekh, 10/75, #10B977)
57. Ivanov, V. A., A. N. Kosarev, V. S. Tuzhilkin, and G. M. Mamedov. Distribution of Vaisala frequency in the Caspian Sea. Uchenyye zapiski Azerbaydzhanskogo universiteta. Seriya geologiya-geografiya, no. 6, 1974, 27-36. (RZhGeofiz, 10/75, #10V92)
58. Ivanov, V. F., I. P. Lukina, and L. V. Cherkesov. Generation of internal tsunami-type waves in a sea with variable depth. Morskiye gidrofizicheskiye issledovaniya, no. 4, 1974, 68-81.
59. Izmaylov, V. V. Estimation of spatial scales of disturbances and determination of some parameters of turbulence in the Chukchi Sea. IN: Problemy Arktiki i Antarktiki, no. 46, 1975, 22-28.
60. Kalatskiy, V. I. Numerical solution of a system of equations for turbulent motion of the upper ocean layer. IN: Trudy Gidrometeorologicheskogo nauchno-issledovatel'skogo tsentra SSSR, no. 119, 1975, 61-69. (RZhGeofiz, 11/75, #11V59)
61. Karabutov, A. A., Ye. A. Lapshin, and O. V. Rudenko. Inhomogeneous Buergers equation in problems of nonlinear acoustics. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 29-32. (RZhF, 10/75, #10Zh714)

62. Kedrinskiy, V. K. Two-phase model of the development of a cavitation zone from reflection of an underwater explosion-induced shock wave from the free surface. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 299-302. (RZhF, 10/75, #10Zh866)
63. Khalfin, I. Sh. Laboratory study of kinematics of irregular waves. Gidrotekhnicheskoye stroitel'stvo, no. 8, 1975, 34-36. (RZhMekh, 12/75, #12B514)
64. Kharenko, A. M. Recent analysis of nonstationary random processes and the possibility for its application to nonstationary turbulence. Donetskiy universitet. Donetsk, 1974, 22 p. (RZhMekh, 6/75, #6B921 DEP)
65. Kitaygorodskiy, S. A. Structure of the upper homogeneous layer and seasonal thermocline in the ocean. (Paper presented at the seminar on geophysical hydrodynamics at the Oceanographic Commission of the USSR Academy of Sciences, 1975). (Okeanologiya, no. 4, 1975, 763)
66. Kleshchev, A. A., et al. Characteristics of measurement of turbulent pulsations. IN: Trudy Leningradskogo korablestroitel'nogo instituta, no. 89, 1974, 79-82. (RZhVodnyy transport, 10/75, #10A89)
67. Klimok, V. I., and V. A. Sukhorukov. Problem of vertical turbulent diffusion in the ocean. IN: Chislenyye metody rascheta okeanicheskikh techeniy. Novosibirsk, 1974, 153-162. (RZhMekh, 7/75, #7B603)
68. Knysh, V. V. Distortion of nonlinear tsunami waves over an underwater ridge. IN: Morskiye gidrofizicheskiye issledovaniya, no. 4, Sevastopol', 1974, 90-99.
69. Kochergin, V. P., V. A. Sukhorukov, and Ye. A. Tsetova. Simulation of vertical turbulent diffusion in the ocean. IN: Chislenyye metody rascheta okeanicheskikh techeniy. Novosibirsk, 1974, 129-152. (RZhMekh, 7/75, #7B602)

70. Kochergin, V. P., V. I. Klimok, and V. A. Sukhorukov. Modeling of vertical turbulence in the North Atlantic. IN: Chislenyye metody rascheta okeanicheskikh techeniy. Novosibirsk, 1974, 163-168. (RZhMekh, 7/75, #7B604)
71. Kochergin, V. P. Uniqueness of a solution to the problem of dynamics of a baroclinic ocean. IN: Chislenyye metody rascheta okeanicheskikh techeniy. Novosibirsk, 1974, 43-52. (RZhGeofiz, 6/75, #6V60)
72. Kogon, M. G., K. A. Kul'chenko, V. P. Petelin, and O. M. Khandros. Hydroacoustic simulator of echo signals. Otkr. izobr, no. 38, 1975, 112.
73. Kolesnikov, A. G., and V. V. Yefimov. Investigation of the turbulent structure of the atmosphere and ocean boundary layers. IN: Sb. Problemy eksperimental'nykh issledovaniy v okeane. (Okeanologicheskiye issled., no. 27), Moskva, Nauka, 60-65.
74. Kolobayev, P. A. Investigation of concentration and statistical distribution of the dimensions of wind-generated bubbles in the near-surface oceanic layer. Okeanologiya, no. 6, 1975, 1013-1017.
75. Korchashkin, N. N., and I. D. Lozovatskiy. Wave disturbances of the temperature field in a stratified fluid. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 12-16. (RZhGeofiz, 11/75, #11V79)
76. Korotayev, G. K., and N. B. Shapiro. Generalized two-layer model of oceanic circulation. IN: Morskiye hidrofizicheskiye issledovaniya, no. 4, 1974, 17-25.
77. Kort, V. G. Principles of planning and organizing oceanographic research. IN: Problemy eksperimental'nykh issledovaniy v okeane, (Okeanologicheskiye issled., no. 27), Moskva, Nauka, 1975, 26-34.

78. Kozhelupova, N. G., Yu. Z. Miropol'skiy, and B. N. Filyushkin. Vertical variability of the spatial structure of internal wave fields in the ocean. Okeanologiya, no. 6, 1975, 962-965.
79. Kozhelupova, N. G. Spatial characteristics of internal wave fields in the ocean. IN: Kompleksnye issledovaniya v Mirovom okeane. Moskva, 1975, 21-24. (RZhGeofiz, 11/75, #11V117)
80. Kozlov, L. F., and A. I. Tsyganyuk. Veloc ty pulsations and their spectral profiles in a boundary layer with draw-off. Gidromekhanika, no. 31, 1975, 21-25.
81. Kudryavtsev, V. I., and M. D. Podlipanov. Sea trials of a new fish-finding sonar. Rybnoye khozyaystvo, no. 12, 1975, 29-34.
82. Kuklin, A. K., and V. P. Liverdi. Methods and results of long-term wave recording in a coastal zone. IN: Morskiye gidrofiz. issled., no. 2, 1975, 120-127. (RZhGeofiz, 2/76, no. 2V86)
83. Kulayenko, Yu. S., and V. A. Baburin. Method of determination of ripple parameters. Author's certificate USSR, no. 457897, published June 3, 1975. (RZhGeofiz, 2/76, #2V43 P)
84. Kurtegov, V. M. Effect of internal waves on sound propagation in the ocean. Akust. zhurnal, no. 2, 1976, 243-249.
85. Kushnir, V. M., V. F. Zhuravlev, G. V. Smirnov, and Ye. G. Andryushchenko. Damping instrument vibrations while measuring hydrophysical parameters from a drifting ship. IN: Morskiye hidrofizicheskiye issledovaniya, no. 2, 1975, 160-165. (RZhGeofiz, 2/76, #2V32)
86. Kushnir, V. M., G. V. Smirnov, and A. F. Ivanov. Results of investigating the structure of the upper layer of the Black Sea. IN: Morskiye hidrofizicheskiye issledovaniya, no. 3, 1974, 31-45. (RZhGeofiz, 6/75, #6V170)

87. Kuz'menko, V. A., I. A. Troyan, and Ya. I. Tsimbalistyy. Nonlinear effects in the case of intense longitudinal oscillations of compressed and dilated metal bars. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Mskovskiy universitet, 1975, 455-458. (RZhF, 10/75, #10Zh706)
88. Larichev, V. D. Propagation of low-frequency Kelvin waves along a curved cost. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 78-80. (RZhGeofiz, 11/75, #11V108)
89. Larichev, V. A., and G. M. Reznik. Nonlinear stationary Rossby waves. (Paper presented at the seminar on geophysical hydrodynamics at the Oceanographic Commission of the USSR Academy of Sciences, 1975). (Okeanologiya, no. 5, 1975, 936)
90. Larin, D. A. Wave disturbances in the field of a passive tracer. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 117-119. (RZhGeofiz, 11/75, #11V80)
91. Laykhtman, D. L., V. Ya. Rivkind, and T. A. Savel'yeva. Investigation of turbulence conditions in the upper layer of the ocean, using numerical methods. Okeanologiya, no. 1, 1976, 25-31.
92. Leonov, A. I., and Yu. Z. Miropol'skiy. Short-wave approximation in the theory of stationary nonlinear internal gravity waves. FAIO, no. 11, 1975, 1169-1178.
93. Levkov, N. P. Dissipation of internal waves generated by periodic atmospheric disturbances. IN: Morskiye gidrofizicheskiye issledovaniya, no. 2, 1975, 33-44. (RZhGeofiz, 2/76, #2V104)
94. Lomonosov, Yu. I., and V. A. Sychev. Operational features of recorders with line scanning in side-look sonars and seismic profilers. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 138-141. (RZhGeofiz, 11/75, #11V39)

95. Lomonosov, Yu. I., and V. A. Sychev. Phase-comparison side-look sonars. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 134-137. (RZhGeofiz, 11/75, #11V40)
96. Lopatnikov, V. I. Parameters of measuring systems with current-conducting housing. IN: Morskiye gidrofizicheskiye issledovaniya, no. 2, 1974, 121-135.
97. Lyubimtsev, M. M., and R. V. Ozmidov. Study of hydrophysical fields over a wide range of space-time scales in an ocean test area. IN: Problemy eksperimental'nykh issledovaniy v okeane (Okeanologicheskiye issled., no. 27), Moskva, Nauka, 1975, 35-40.
98. Matushevskiy, G. V. A method of distinguishing between wave and turbulent motions in the near-surface layer of the sea. IN: Trudy Gosudarstvennogo okeanograficheskogo instituta, no. 126, 1975, 142-151. (RZhMekh, 1/76, #1B927)
99. Miropol'skiy, Yu. Z. Internal waves: inertial oscillations. (Paper presented at the seminar on geophysical hydrodynamics at the Oceanographic Commission of the USSR Academy of Sciences, 1975). (Okeanologiya, no. 4, 1975, 763)
100. Miropol'skiy, Yu. Z. The effect of shear flow on generation of short-period internal waves in the ocean. FAiO, no. 9, 1975, 933-941.
101. Miropol'skiy, Yu. Z. Pulse propagation in a stratified rotating fluid. FAiO, no. 12, 1975, 1314-1322.
102. Miropol'skiy, Yu. Z. Nonlinear topographic Rossby waves. Seminar on geophysical hydrodynamics at the Oceanographic Commission of the USSR Academy of Sciences. Okeanologiya, no. 5, 1975, 936-938.

103. Moiseyev, G. A. Accounting for ambiguity in controlling random field measurements in the ocean, in the preparation of diagnostic charts. IN: Morskiye gidrofizicheskiye issledovaniya, no. 2, 1975, 68-78. (RZhGeofiz, 2/76, #2V191).
104. Morozov, Ye. G. Experimental study of internal waves in tides. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 17-20. (RZhGeofiz, 12/75, #12V113)
105. Morozov, Ye. G., and Ye. A. Plakhin. Aspects of an experimental study on temperature fluctuations in the ocean. IN: Problemy eksperimental'nykh issledovaniy v okeane (Okeanologicheskiye issled., no. 27), Moskva, Nauka, 1975, 66-71.
106. Morozov, Ye. G., Ye. A. Plakhin, and S. M. Shapovalov. Study of temperature fluctuations within the frequency range of internal gravity waves in the northwestern Pacific Ocean. Okeanologiya, no. 1, 1976, 61-66.
107. Morozov, Ye. G. et al. Temporal and spatial variability of temperature fields in the equatorial zone of the Indian Ocean. FAiO, no. 3, 1976, 302-311.
108. Murav'yev, S. S. Problem of coefficient of horizontal turbulent diffusion in the surface layer of the sea. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 109-112. (RZhMekh, 10/75, #10B479)
109. Nagurnyy, A. P. Numerical analysis of internal tidal oscillations in the ocean. Trudy Arkticheskogo i antarkticheskogo NII, no. 321, 1975, 158-165.
110. Naumenko, M. F. Characteristics of spatial inhomogeneities in the surface temperature field of the ocean. IN: Morskiye hidrofizicheskiye issledovaniya, no. 2, 1975, 96-107. (RZhGeofiz, 2/76, #2V112)

111. Nekrasov, V. N., and Yu. D. Chashechkin. A method for determining the velocity and period of free internal oscillations in stratified media. IN: Fizicheskiye metody issledovaniya prozrachnykh neodnorodnostey. Moskva, 1975, 84-86. (RZhMekh, 1/76, #1B1238)
112. Nepomnyashchiy, A. A. Secondary convective motions in a plane vertical layer. MZhiG, no. 4, 1975, 3-11.
113. Neprochnov, Yu. P., M. I. Balashkand, I. N. Yel'nikov, Yu. D. Yevsyukov, Ye. G. Popovich, and G. A. Semenov. Frequency spectra of high-power pneumatic emitters. Okeanologiya, no. 4, 1975, 744-747. (RZhF, 1/76, #1Zh735)
114. Neuymin, G. G., and A. S. Vasil'yev. Experimental studies during the ninth cruise of the R/V Academician Vernadskiy. IN: Morskiye gidrofizicheskiye issledovaniya, no. 2, 1975, 178-186. (RZhGeofiz, 2/76, #2V203)
115. Nikitin, G. Discontinuity layer in the ocean. Morskoy sbornik, no. 1, 1976, 83-86.
116. Nikolayev, S. G., and T. E. Luysk. Spatial variability in the parameters of large-scale turbulence and exchange in the Baltic Sea. FAiO, no. 8, 1975, 866-869.
117. Novikov, B. K., M. S. Rybachev, and V. I. Timoshenko. Distribution of the radiation field during interaction of acoustic waves. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 234-237. (RZhF, 10/75, #10Zh703)
118. Nozdrev, V. F., and N. V. Fedorishchenko. Molekulyarnaya akustika (Molecular acoustics). Moskva, Vysshaya shkola, 1974, 288 p.

119. Ostroumov, G. A. Druzhinin, V. M. Kryachko, and A. S. Tokman. Nonlinear acoustic phenomena in fluids with gas bubbles. VLU, no. 3, 1975, 131-132.
120. Ostrovskiy, L. A., Ye. N. Pelinovskiy, and V. Ye. Fridman. Propagation of finite-amplitude acoustic waves in a stratified ocean. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 250-253. (RZhF, 10/75, #10Zh886)
121. Ostrovskiy, L. A., and A. M. Sutin. Diffraction and focusing of nonlinearly-distorted acoustic waves. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 93-96. (RZhF, 11/75, #11Zh778)
122. Ozmidov, R. V. Turbulence in the ocean. (Paper presented at the seminar on geophysical hydrodynamics at the Oceanographic Commission of the USSR Academy of Sciences, 1975.) (Okeanologiya, no. 4, 1975, 763)
123. Paritskiy, A. S., and E. S. Vayndruk. Ultrasonic method for measurement of sea waves. Author's certificate USSR, no. 457888, published Oct. 4, 1975. (RZhGeofiz, 2/76, #2V42 P)
124. Pasechnik, T. A. Numerical-analytic algorithm for integration of a wave energy balance equation. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 88-91. (RZhMekh, 10/75, #10B467)
125. Pavlov, V. I. Absorption of sound by noise. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 41-44. (RZhF, 10/75, #10Zh700)
126. Pelinovskiy, Ye. N., and S. Kh. Shavratskiy. Propagation of nonlinear internal waves in an inhomogeneous ocean. FAiO, no. 1, 1976, 76-82.

127. Perov, N. N., and N. S. Medvedev. Depth stabilization device for objects lowered by cable. Author's certificate USSR, no. 401561, published Feb. 25, 1974. (RZhGeofiz, 2/76, #2V36 P)
128. Poberezkin, S. M. Difraction of internal Kelvin waves at a semi-infinite barrier. IN: Sbornik nauchnykh trudov Kuybyshevskogo politekhnicheskogo instituta, no. 7, 1974, 76-81. (RZhMekh, 12/75, #12B504)
129. Podlipanov, M. D., and S. L. Sergeyev. Estimating the probability of side-lobe noise interference in the directional pattern of a fish-finding sonar. Rybnoye khozyaystvo, no. 10, 1975, 58-60.
130. Pokazeyev, K. V. Experimental study of wind waves in a turbulent flow. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 92-94. (RZhGeofiz, 11/75, #11V105)
131. Polyakov, V. S. Training device for detection of hydroacoustic signals against a noise background. Author's certificate USSR, no. 410446, published May 15, 1974. (RZhVodnyy transport, no. 1V14 P)
132. Polyudov, A. N., R. Z. Sagdeev, and Yu. S. Sigov. Cislennoye modelirovaniye dvukhmernoy lengmyurovskoy turbulentnoosti (Numerical modeling of two-dimensional Langmuir turbulence). Moskva, 1974, 49 p. (KLDV, 8/75, #13836)
133. Potapkin, V. S. Representation of distributed pressure in the study of steady-state composite waves at the surface of a heavy fluid flow with a finite depth. IN: Morskiye gidrofizicheskiye issledovaniya, no. 4, 1974, 90-99.
134. Psavko, V. I., and V. P. Goncharenko. Investigation of a nonlinear acoustic transducer. IN: Prikladnaya akustika, no. 1, Taganrog, 1975, 96-101. (RZhF, 12/75, #12Zh905)

135. Rabinovich, Yu. I., et al. An analysis of measurements of ice-cover parameters (Variant C). IN: Sovetsko-Amerikanskiy eksperiment "Bering". Leningrad, Gidrometeoizdat, 1975, 294-313. (RZhGeofiz, 2/76, #2V186)
136. Reutov, V. A. Propagation of a single wave over an underwater ridge. MZhiG, no. 4, 1975, 79-85.
137. Romanov, V. F. Turbulence conditions in a stratified boundary layer of the ocean beneath ice cover. Okeanologiya, no. 1, 1976, 32-40.
138. Rokotov, S. P. Noise stability of relative phase-shift keying during transmission of telemetric information over a hydroacoustic channel. IN: Trudy Dal'nevostochnogo politekhnicheskogo instituta, no. 1, 1973, 68-74. (LZhS, 26/75, #85178)
139. Rudenko, O. V., and A. S. Chirkin. Propagation of intense noise in dispersion-free nonlinear media. IN: Shestoy mezhunarodnyy simpozium po nelineynoy akustike, Moskva, 1975. Moskva, Moskovskiy universitet, 1975, 4-7. (RZhF, 10/75, #10Zh698)
140. Rudenko, O. V., and A. S. Chirkin. Statistics of detached noise waves in nonlinear media. DAN SSSR, v. 225, no. 3, 1975, 520-523.
141. Rudenko, O. V., and S. I. Soluyan. Teoreticheskiye osnovy nelineynoy akustiki (Theoretical principles of nonlinear acoustics). Moskva, Nauka, 1975, 288 p.
142. Sachkov, K. N., and R. I. Mukhtarov. Using lasers for measurement of flow velocity. Trudy Gosudarstvennogo okeanograficheskogo instituta, no. 117, 1973, 78-90. (RZhGeofiz, 2/74, #2V21)
143. Savchenko, V. G., and M. A. Chepurina. Instability of internal waves in an ice-covered sea. Problemy Arktiki i Antarktiki, no. 46, 1975, 67-72.

144. Sekerzh-Zen'kovich, Ya. I. Theory of composite steady capillary-gravity waves with a finite amplitude at the surface of a finite-depth fluid. DAN SSSR, v. 225, no. 1, 1975, 63-66.
145. Serebryakov, A. A., and L. V. Cherkesov. Effect of latitudinal variation of Coriolis parameter on long waves. IN: Morskiye gidrofizicheskiye issledovaniya, no. 1, 1975, 62-69. (RZhGeofiz, 2/76, #2V95)
146. Shardin, I. F., and E. I. Onishchenko. Gradient mast for measurement of flow parameters on the continental shelf. Okeanologiya, no. 4, 1975, 748-751.
147. Shekhvatov, B. V., and E. V. Suvilov. Meters for flow velocity and water temperature with magnetic recording. Okeanologiya, no. 5, 1973, 883-886. (RZhGeofiz, 2/75, #2V20)
148. Shelkovnikov, N. K. Effect of the "sliding mean" operator on the determination of the parameters of turbulent inhomogeneities. VMU, no. 1, 1975, 111-113.
149. Shenderov, Ye. L. Volnovyye zadachi gidroakustiki (Wave problems in hydroacoustics). Leningrad, sudostroyeniye, 1972, 349 p.
150. Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, 8-10 iyulya 1975 g. Tezisy dokladov. (Sixth international symposium on nonlinear acoustics. Moscow, July 8-10, 1975. Proceedings). Moskovskiy universitet, 1975, 522 p. (RZhF, 10/75, #10Zh697 K)
151. Shibalov, S. N. Problem of matching a hydrophone and field-effect transistor amplifier. Trudy Moskovskogo energeticheskogo instituta, no. 261, 1975, 139-141. (RZhF, 1/76, #1 Zh734)
152. Shtentsel', V. K. A new direction in development of the theory of waves on a water surface. IN: Trudy Koordinatsionnogo soveshchaniya po gidrotehnike, no. 92, 1974, 11-15. (RZhGeofiz, 10/75, #10V75)

153. Sochel'nikov, V. V. Ya. Gol'mshtok, and V. S. Mogulatov. Effect of surface and internal waves on results of marine electrical prospecting. FAiO, no. 10, 1975, 74-78.
154. Starov, L. S., and N. N. Golosnitskaya. Hydroacoustic receiver. Other izobr, no. 46, 1975, 154 (Author Certificate 495797)
155. Stefanov, S. R. Optoacoustic method for measuring turbulence parameters. IN: Fizicheskiye metody issledovaniya prozrachnykh neodnorodnostey. Moskva, 1975, 82-83. (RZh Mekh, 12/75, #12B914)
156. Stefanov, S. R., and Yu. D. Chashechkin. Use of a shadow graph for studying turbulent pulsations in water. IN: Fizicheskiye metody issledovaniya prozrachnykh neodnorodnostey. Moskva, 1975, 44-45. (RZhMekh, 12/75, #12B913)
157. Sverdlin, G. N. Gidroakustika i podvodnyye elektroakusticheskiye preobrazovateli. (Underwater acoustics and electroacoustic transducers. Textbook). Leningrad, 1969, 61 p. (KL, 2/76, #1064)
158. Taranov, E. S. et al. Gidroakusticheskiye izmereniya v okeanologii (Underwater acoustic measurements in oceanology). Leningrad, Gidrometeoizdat, 1972, 328 p.
159. Tareyev, B. A. Dinamika baroklinnykh vozrushcheniy v okeane (Dynamics of baroclinic disturbances in the ocean). Moskva, Moskovskiy universitet, 1974, 189 p. (RZhGeofiz, 3/75, #3V38 K)
160. Tikhomirov, N. A. An analogy (heat exchange: turbulence) in hydromechanics. Trudy Gor'kovskogo politekhnicheskogo instituta, no. 13, 1974, 113-120. (RZhMekh, 10/75, #10B401)
161. Timofeyeva, V. A. Applicability limits of an approximate method for separate determination of absorption and scattering coefficients of turbid media. IN: Morskiye hidrofizicheskiye issledovaniya, no. 1, 1975, 118-124. (RZhgeofiz, 2/76, #2V116)

162. Trokhan, A. M., Yu. D. Chashechkin, and V. N. Nekrasov. Method for measuring velocity and turbulence of fluid flow. Otkr izobr, no. 42, 1975, 111 (Author Certificate 491897)
163. Trokhan, A. M., and Yu. D. Chashechkin. Calculating turbulence parameters from data of shadow measurements. IN: Fizicheskiye metody issledovaniya prozrachnykh neodnorodnostey. Moskva, 1975, 42-45. (RZhMekh, 12/75, #12B912)
164. Tsvetkova, A. A. Computation of currents and density field in the World Ocean. IN: Chislenyye metody rascheta okeanicheskikh techeniy. Novosibirsk, 1974, 21-42. (RZhGeofiz, 6/75, #6V59)
165. Tsyganov, V. F. A method for computing the coefficient of vertical turbulent viscosity. Trudy Atlanticheskogo NII rybnogo khozyaystva i okeanografii, no. 58, 1975, 58-63. (RZhGeofiz, 11/75, #11V61)
166. Tumin, A. M. Computation of the neutral stability curve for isotropic turbulent flows of the Millionshchikov-Loytsyanskiy type. IN: Chislenyye metody mekhaniki sploshnoy sredy, no. 1, Novosibirsk, 1975, 107-108. (RZhMekh, 9/75, #9B745)
167. Vasilenko, V. M., M. M. Lyubimtsev, and R. V. Ozmidov. On fluctuations in the dissipation rate of turbulent energy and high order structural functions for a velocity field in the ocean. FAIO, no. 9, 1975, 926-932.
168. Vasilenko, V. M., A. P. Mirabel', and R. V. Ozmidov. On the spectra of flow velocity and the coefficient of horizontal turbulent viscosity in the Atlantic Ocean. Okeanologiya, no. 1, 1976, 55-60.
169. Vasil'tsov, Ye. A., and A. Ya. Isakov. Continuous measurements of sound attenuation in a fluid containing free gas. IN: Prikladnaya akustika, no. 1, Taganrog, 1975, 166-171. (RZhMekh, 1/76, #1B223)

170. Vladimirov, V. L., and V. A. Urdenko. Using a pulse analyzer for hydrophysical data processing. IN: Morskiye gidrofizicheskiye issledovaniya, no. 2, 1975, 154-159. (RZhGeofiz, 2/76, #2V31)
171. Volosov, V. M. Investigation of nonlinear internal waves. Okeanologiya, no. 6, 1975, 955-961.
172. Volosov, V. M. Nonlinear topographic Rossby waves. (Paper presented at the seminar on geophysical hydrodynamics at the Oceanographic Commission of the USSR Academy of Sciences, 1975.) (Okeanologiya, no. 5, 1975, 936-937)
173. Voronovich, A. G. Resonant three-wave interaction of internal waves. Okeanologiya, no. 5, 1975, 773-780.
174. Voronovich, A. G. Propagation of internal waves in a horizontally inhomogeneous ocean. FAIÖ, no. 1, 1976, 83-92.
175. Voronovich, A. G., A. I. Leonov, and Yu. Z. Miropol'skiy. A possible mechanism for formation of fine structures in hydrophysical fields in the ocean. (Paper presented at the seminar on geophysical hydrodynamics at the Oceanographic Commission of the USSR Academy of Sciences, 1975). (Okeanologiya, no. 1, 1976, 189-190).
176. Vyshkind, S. Ya., M. I. Rabinovich, and T. M. Tarantovich. Non-Kolmogorov turbulence during parametric excitation of sound in a viscous medium. IN: Shestoy mezdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 53-57. (RZhF, 10/75, #10Zh676)
177. Yefimov, A. V. Accounting for inversion properties of water during measurement of small flow velocities by a hot wire anemometer. Institut merzlotovedeniya AN SSSR. Yakutsk, 1975, 10 p. (RZhMekh, 7/75, #7B1378 DEP)

178. Yefimov, V. V., and A. S. Zapevalov. Spectral characteristics of temperature pulsations in a layer of wind waves. Okeanologiya, no. 4, 1975, 592-598.
179. Yermakov, S. A. and Ye. H. Pelinovskiy. On the theory of low frequency surface waves excited by internal waves in the ocean. FAiO, no. 3, 1976, 312-318.
180. Yermakov, S. A., and Ye. N. Pelinovskiy. Theory of multimode distribution in the parameters of long finite-amplitude internal waves. FAiO, no. 10, 1975, 1055-1060
181. Yermolinskiy, L. Yu., V. V. Lavrechenko, M. Z. Finkel', and A. V. Furduyev. A method for measuring the spectral density of noise in an aqueous medium. Otkr izobr, no. 1, 1976, 158 (Author Certificate 498641)
182. Yevdoshenko, M. A., and N. V. Vershinsky. On recording of water temperature gradient. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva , 1975, 142-145. (RZhGeofiz, 11/75, #11V31)
183. Yevtikhiev, N. N., L. V. Babin, and A. I. Plis. Acoustic hologram formation in the case of sector scanning. IN: Problemy golografii, no. 4, Moskva, 1974, 71-82. (Novosti tekhnicheskoy literatury. Rybnoye khozyaystvo, 9 /75, #388)
184. Zabolotskaya, Ye. A., and R. V. Khokhlov. Interaction of acoustic waves in a viscous medium. IN: Shestoy mezhunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 142-145. (RZhF, 10/75, 10Zh702)
185. Zabolotskaya, Ye. A., and R. V. Khokhlov. Thermal interaction of acoustic waves. Akusticheskiy zhurnal, no. 1, 1976, 28-31.

186. Zakharova, O. K. Dynamics of (air) flow over a sea surface in the case of developed waves. Trudy glavnay geofizicheskoy observatorii, no. 362, 1975, 50-58. (RZhGeofiz, 2/76, #2V55)
187. Zarembo, L. K., and K. M. Tvanov-Shits. Problem of directionality of nonlinear interactions. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 20-22, (RZhF, 10/75, #10Zh699)
188. Zaytsev, A. A. Free and induced Kelvin waves near the shore of a stratified ocean. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 73-77. (RZhGeofiz, 11/75, #11V107)
189. Zaytsev, A. A. Some features of propagation of nonstationary internal waves in the ocean. IN: Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 7-11. (RZhGeofiz, 11/75, #11V116)
190. Zhigulev, V. N., N. V. Sidorenko, and A. M. Tunin. On the origin of turbulence. IN: Chislennyye metody mekhaniki sploshnoy sredy, no. 1, Novosibirsk, 1975, 30-41. (RZhMekh, 9/75, #9B744)
191. Zhurbas, V. M., S. S. Murav'yev, and T. M. Tatarayev. Experimental study of turbulent diffusion of tracer streams in the near-surface layer of the sea. Okeanologiya, no. 4, 1975, 611-615.
192. Zimont, V. L., and V. A. Sabel'nikov. Turbulent diffusion in a medium subjected to uniform deformation. MZhG, no. 6, 1975, 22-29.
193. Zverev, V. A., and A. I. Kalachev. Scattering of sound on sound, in the case of intersection of acoustic beams. IN: Shestoy mezhdunarodnyy simpozium po nelineynoy akustike. Moskva, Moskovskiy universitet, 1975, 242-245. (RZhF, 10/75, #10Zh704)

2. Surface Effects

194. Basharinov, A. Ye., L. F. Borodin, A. B. Akvilonova, A. I. Zharov, M. S. Krylova, B. G. Kutuza, A. A. Kurskaya, L. M. Mitnik, A. N. Tsvetkov, A. V. Shemshurin, and A. M. Shutko. Radiothermal emission from the earth and the atmosphere. IN: Sb. Issledovaniya v oblasti radiotekhniki i elektroniki 1954-1974. Ch. I. Moskva, 1974, 263-286. (RZhGeofiz, 6/75, #6B149)
195. Bass, F. G., S. Ya. Braude, A. I. Kalmykov, A. V. Men' I. Ye. Ostrovskiy, A. D. Rozenberg, and I. M. Fuks. Radiofizicheskiye issledovaniya morskogo volneniya (radiookeanografiya), vypolnennyye v AN USSR [Radiophysical investigations (radio oceanography), performed at the USSR Academy of Science]. Institut radiofiziki i elektroniki, AN USSR, Preprint no. 51, Khar'kov, 1975, 44 p. (RZhF, 12/75, #12Zh151)
196. Belich, R. B., A. G. Gorelik, V. I. Semiletov, and A. V. Frolov. Polarization characteristics of surface radiation at 0.8 cm. IN: Sb. XI vses. konf. po rasprostr. radiovoln, ch. 3. Tezisy dokl. Kazan; Kazan.un-t, 1975, 149-153 (RZhRadiot, 1/76, no. 1G17)
197. Belousov, P. S., Ye. O. Zhilko, A. A. Zagorodnikov, V. I. Korniyenko, V. S. Loshchilov, and K. B. Chelyshev. Studying sea wave parameters with a side-look radar. IN: Sb. Sovetsko-Amerikanskiy eksperiment "Bering". Leningrad, gidrometeoizdat, 1975, 68-79. (RZhGeofiz, 2/76, #2V85)
198. Benilov, A. Yu., T. D. Lozovatskiy, and A. L. Sukhov. On the problem of turbulence spectrum in a shear flow. IN: Sb. Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 101-104. (RZhGeofiz, 11/75, #11V60)
199. Bogorodskiy, V. V., M. A. Kropotkin, and I. Yu. Sheveleva. Investigation of the effect of sea waves on remote sounding of oil pollution by an active method. Okeanologiya, no. 6, 1975, 1112-1115.

200. Buznikov, A. A., G. A. Lakhtanov, V. M. Orlov, and D. V. Pozdnyakov. Use of spectral, spectrozonal, and polarization methods for remote sounding of oil films on a sea surface. IN: Sb. geografiya okeanov. Leningrad, 1975, 79-82. (RZhGeofiz, 12/75, #12V34)
201. Davidan, I. N., A. K. Bochkarev, and Yu. A. Trapeznikov. Performance tests of improved GM -16M and GM -32 wave recorders. Trudy gosudarstvennogo okeanograficheskogo instituta, no. 117, 1973, 104-112. (RZhGeofiz, 2/74, #2V23)
202. Finkel'steyn, M. I., V. A. Kutev, V. G. Glushnev, V. L. Mendel'son, and E. I. Lazarev. Results from radar sounding of sea and fresh water ice from an aircraft. IN: Sb. XI Vses. konf. po rasprostr. radiovoln. Ch. 3. Tezisy dokladov. Kazan; Kazan. un-t, 1975, 111-115 (RZhRadiot, 1/76, no. 1G39)
203. Freylikher, V. D., and I. M. Fuks. Characteristics of scattering from a statistically uneven surface at small grazing angles. IN: Sb. XI Vses. konf. po rasprostr. radiovoln. Ch. 3. Tezisy dokladov. Kazan; Kazan. un-t, 1975, 15-17 (RzhRadiot, 1/76, no. 1G18)
204. Fuks, I. M. Amplification of backscattering by shading of a rough surface. RiE, no. 3, 1976, 625-628.
205. Fuks, I. M. Determining parameters of sea waves from fluctuations in amplitude and phase of reflected radio waves. FAiO, no. 10, 1975, 1038-1046.
206. Galkin, L. N. Satellite apparatus used for oceanologic observations. Uchenyye zapiski LGU, no. 379, 1975, 29-64. (RZhGeofiz, 1/76, #1V31)
207. Galkin, L. N., and D. I. Maksimikhin. Using satellite data for determination of ocean surface temperature fields from infrared radiation. Uchenyye zapiski LGU, no. 379, 1975, 64-81. (RZhGeofiz, 1/76, #1V43)

208. Garnaker'yan, A. A., and A. S. Sosunov. Cross correlation function at different frequency r-f signals scattered by a sea surface. IN: Sb. XI Vses. konf. po rasprostr. radiovoln. Ch 3. Tezisy dokladov. Kazan; Kazan. un-t, 1975, 11-14 (RZhRadiot, 1/76, no. 1G22)
209. Garnakeryan, A. A., A. S. Sosunov, and V. V. Timonov. Feasibility of determining ocean wave parameters in the shortwave r-f range from an aircraft. IN: Sb. XI Vses. konf. po rasprostr. radiovoln. Ch. 3. Tezisy dokladov. Kazan; Kazan. un-t, 1975, 154-158 (RZhRadiot, 1/76, no. 1G24)
210. Glotov, A. A., M. D. Rayev, D. T. Matveyev, V. G. Mirovskiy, I. A. Troitskiy, and V. S. Etkin. Model measurements on the effect of small-scale surface wave structure on its thermal emission. IN: Sb. XI Vses. konf. po rasprostr. radiovoln. Ch. 3. Tezisy dokladov. Kazan; Kazan, un-t, 1975, 161-163 (RZhRadiot, 1/76, no. 1G35)
211. Gorbunov, Yu. A., and S. M. Losev. Investigation of cracks in solid ice cover from radar survey data. Problemy Arktiki i Antarktiki, no. 46, 1975, 29-33.
212. Gorelik, A. G., and L. V. Knyazev. Calculation of radiothermal and radar characteristics of a wavy sea surface. IN: Sb. XI Vses. konf. po rasprostr. radiovoln. Ch. 3. Tezisy dokladov. Kazan; Kazan. un-t, 1975, 167-171 (RZhRadiot, 1/76, no. 1G25)
213. Gulin, E. P. Statistical characteristics of quadrature components of acoustic signals, reflected from a wavy sea surface. Akusticheskiy zhurnal, no. 5, 1975, 721-731.
214. Kalmykov, A. I., A. S. Kurekin, Yu. A. Lementa, M. Ye. Ostrovskiy, and V. V. Pustovoytenko. Effect of reflections generated by breaking of sea waves on the back scattering of UHF radio waves. IN: Odinnadtsataya vsesoyuznaya konferentsiya po

rasprostraneniyu radiovoln. Ch. 3. Kazan', Kazanskiy universitet,
1975, 159-160. (RZhRadiot, 2/76, #2G26)

215. Kalmykov, A. I., A. S. Kurekin, Yu. A. Lementa, and V. V. Pustovoytenko. Nekotoryye osobennosti obratnogo rasseyaniya radiovoln SVCh diapazona poverkhnost'yu morya pri nalykh iglakh skol'zheniya. Preprint (Some features of back-scattering of UHF radio waves by a sea surface in the case of small glancing angles. Preprint). Khar'kov, 1974, 39 p. (RZhRadiot, 8/75, #8G36)
216. Kanareykin, D. B., and V. A. Potekhin. Statistical polarization characteristics of radar signals reflected from land and water surfaces. IN: Sb. XI Vses. konf. po rasprostr. radiovoln. Ch. 3. Tezisy dokladov. Kazan; Kazan. un-t, 1975, 22-24 (RZhRadiot, 1/76, no. 1G20)
217. Kapitanov, V. A., Yu. V. Mel'nichuk, and A. A. Chernikov. Backscattering of centimeter radiowaves by a land surface at small glancing angles. IN: Trudy Tsentral'noy aerologicheskoy observatorii, no. 121, 71-80. (RZhF, 11/75, #11Zhl48)
218. Kireyev, I. V., B. A. Maksimov, and A. V. Svechnikov. Analysis of energy spectra of sea waves. IN: Sb. Sovetsko-Amerikanskiy eksperiment "Bering". Leningrad, Gidrometeoizdat, 1975, 92-99. (RZhGeofiz, 2/76, #2V82)
219. Korchagin, Ye. K., and R. N. Semenov. Results of measuring sea surface parameters by aerial photography. I VUZ Geod, no. 6, 1974, 67-71
220. Krasyuk, V. N. Effect of fluctuations in the parameters of a medium on statistical characteristics of its radar signal. IN: Sb. Prikladnyye zadachi rasseyaniya i difraktsii radiolokatsionnykh signalov. Leningrad, 1974, 44-48. (RZhF, 3/75, #3Zhl26)

221. Krestnikov, L. A. Effect of sea reflections from the interior of subsurface waveguides. Trudy Sev. Zap. zaochnogo politekhnicheskogo instituta, no. 29, 1975, 74-75. (RZhF, 9/75, #9Zh202)
222. Kublanov, Ya. M., and N. N. Rakhmanin. Problem of the angular energy spectrum of sea waves. IN. Sb. Teoriya voln i raschet gidrotekhnicheskikh sooruzheniy. Moskva, Nauka, 1975, 67-76. (RZhMekh, 9/75, #9B412)
223. Logachev, V. P. On the spectrum of amplitude fluctuations in a signal reflected from a surface. IN: Tr. Mosk. energ. in-ta, no. 261, 1975, 26-29 (RZhRadiot, 1/76, no. 1G31)
224. Martsinkevich, L. M., and V. V. Melent'yev. Numerical modeling of thermal r-f emission from the sea surface in the case of stationary and fully-developed sea waves. Trudy Glavnoy geofizicheskoy observatorii, no. 331, 1975, 73-85. (RZhGeofiz, 12/75, #12V29)
225. Martynova, Ye. A. Determining the thickness of a sea ice cover from its intrinsic IR radiation. IN: Sb. XI Vses. konf. po rasprostr. radiovoln. Ch. 3. Tezisy dokladov. Kazan; Kazan. un-t, 1975, 127-130 (RZhRadiot, 1/76, no. 1G34)
226. Maslov, V. Yu. Remote detection of oil products on an ocean surface. IN: Sb. Kompleksnyye issledovaniya v Mirovom okeane. Moskva, 1975, 319-322. (RZhGeofiz, 11/75, #11V256)
227. Mel'nichuk, Yu. V., and A. A. Chernikov. Backscatter matrix of centimeter waves by a wavy sea surface. Trudy Tsentral'noy aerologicheskoy observatorii, no. 121, 1975, 58-70. (RZhF, 11/75, #11Zh147)

228. Molebnyy, V. V. Direction finder for sea waves. Author's Certificate, USSR, no. 419826, published Dec. 8, 1974 (RZhGeofiz, 3/75, #3V26 P (54))
229. Mullamaa, Yu-A. R. Effect of macroroughness of scattering surfaces on the coefficients of brightness and reflection. IN: Sb. Oblachnost' i radiatsiya. Tartu, 1975, 191-211 (RZhGeofiz, 11/75, #11B159)
230. Muro, E. L., G. V. Pavlova, and N. S. Fomin. Experimental correlation of wind speed, wind direction and wave state with energetic parameters of optical pulses reflected from a sea surface. IN: Trudy Tsentral'noy aerologicheskoy observatorii, no. 109, 1975, 101-106. (RZhGeofiz, 10/75, #10V109)
231. Nedelyayev, A. M., and V. P. Prokhov. On using a radar method to determine statistical characteristics of sea waves. IN: Sb. XI Vses. konf. po rasprostr. radiovoln. Ch. 3. Tezisy dokladov. Kazan; Kazan. un-t, 1975, 30-35 (RZhRadiot, 1/76, no. 1G32)
232. Nedovesov, A. N. Calculating the emission coefficient of a wavy sea surface in the microwave range. IN: Sb. Morskiye gidrofizicheskiye issledovaniya, no. 2, 1975, 79-85. (RZhGeofiz, 2/76, #2V117)
233. Neklyudov, V. I., and S. D. Chuprov. Experimental study of amplitude fluctuation spectra of pulse tone signals, reflected from the ocean surface, at large Rayleigh numbers. Akusticheskiy zhurnal, no. 1, 1976, 81-85.

234. Nekontaknyye metody izmereniya okeanograficheskikh parametrov
(Remote methods of measurement of oceanographic parameters).
Collection of papers presented at the All-union seminar, Sevastopol',
4-7 Sept. 1973 Moskva, Gidrometeoizdat, 1975, 219 p.
(RZhRadiot, 8/75, #8G18K)
235. Rozenberg, A. D., I. Ye. Ostrovskiy, I. A. Leykin, and V. G. Ruskevich. Determining the energy-carrying component of a sea wave spectrum, from phase characteristics of a radio signal scattered by the sea. IN: Sb. Nekontaknyye metody izmereniya okeanograficheskikh parametrov. Moskva, Gidrometeoizdat, 1975, 74-82. (RZhRadiot, 8/75, #8G28)
236. Shupyatskiy, A. B. Relationship of polarization characteristics of a radar signal with various sea state parameters. IN: Sb. Nekontaknyye metody izmereniya okeanograficheskikh parametrov. Moskva, Gidrometeoizdat, 1975, 115-121. (RZhRadiot, 9/75, #9G47)
237. Volovov, V. I., and V. V. Krasnoborod'ko. Method for recording the surface wave motion of fluids. Otkr izobr, no. 44, 1975, 93.
238. Volovov, V. I., V. V. Krasnoborod'ko, and Yu. P. Lysanov. Acoustic method for determining sea wave height. Author's Certificate USSR, no. 412578, published Aug. 19, 1974. (RZhGeofiz, 2/76, #2V40P)
239. Voronin, V. A., N. I. Kolyagin, A. S. Sosunov, and S. F. Cherepansev. Characteristics of a field scattered by a sea surface, allowing for displacement and velocity of the radar relative to the sea element. IN: Sb. Prikl. akustika, no. 1. Taganrog, 1975, 28-35 (RZhRadiot, 1/76, no. 1G33)

240. Voronin, V. A., S. F. Cherepansev, and N. I. Kolyagin. On the problem of measuring of sea wave lengths and crest length. IN: Sb. Prikladnaya akustika, no. 1, Taganrog, 1975, 36-39. (RZhGeofiz, 2/76, #2V41)
241. Voronin, V. A., L. F. Lependin, and S. F. Cherepansev. Emission of acoustic energy by a turbulent oceanic layer. IN: Sb. Prikladnaya akustika, no. 1, Taganrog, 1975, 40-47. (RZhF, 12/75, #12Zh915)
242. Zagorodnikov, A. A., and K. B. Chelyshev. Application of optical processing to remote measurements of sea waves. IN: Trudy Gosudarstvennogo okeanograficheskogo instituta, no. 117, 1973, 25-34. (RZhGeofiz, 2/74, #2V25)
243. Zakharov, V. M., V. I. Pavlov, and V. Ye. Rokotyan. On the shape of optical pulses reflected from a sea surface. IN: Sb. Nekontaktnyye metody izmereniya okeanograficheskikh parametrov. Moskva, Gidrometeoizdat, 1975, 125-132. (RZhF, 9.75, #2D820)
244. Zhilko, Ye. O., and A. A. Zagorodnikov. Effect of foam and spray during stormy seas on the image quality of a side-look radar, based on results of the Bering experiment. IN: Sb. Sovetsko-Amerikanskiy eksperiment "Bering". Leningrad, Gidrometeoizdat, 1975, 80-91. (RZhGeofiz, 1/76, #1V94)

3. SOURCE ABBREVIATIONS

AiT	-	Avtomatika i telemekhanika
APP	-	Acta physica polonica
DAN ArmSSR	-	Akademiya nauk Armyanskoy SSR. Doklady
DAN AzSSR	-	Akademiya nauk Azerbaydzhanskoy SSR. Doklady
DAN BSSR	-	Akademiya nauk Belorusskoy SSR. Doklady
DAN SSSR	-	Akademiya nauk SSSR. Doklady
DAN TadSSR	-	Akademiya nauk Tadzhikskoy SSR. Doklady
DAN UkrSSR	-	Akademiya nauk Ukrainskoy SSR. Dopovidi
DAN UzbSSR	-	Akademiya nauk Uzbekskoy SSR. Doklady
DBAN	-	Bulgarska akademiya na naukite. Doklady
EOM	-	Elektronnaya obrabotka materialov
FAiO	-	Akademiya nauk SSSR. Izvestiya. Fizika atmosfery i okeana
FGiV	-	Fizika goreniya i vzryva
FiKhOM	-	Fizika i khimiya obrabotka materialov
F-KhMM	-	Fiziko-khimicheskaya mekhanika materialov
FMiM	-	Fizika metallov i metallovedeniye
FTP	-	Fizika i tekhnika poluprovodnikov
FTT	-	Fizika tverdogo tela
FZh	-	Fiziologicheskiy zhurnal
GiA	-	Geomagnetizm i aeronomiya
GiK	-	Geodeziya i kartografiya
IAN Arm	-	Akademiya nauk Armyanskoy SSR. Izvestiya. Fizika
IAN Az	-	Akademiya nauk Azerbaydzhanskoy SSR. Izvestiya. Seriya fiziko-tehnicheskikh i matematicheskikh nauk

IAN B	-	Akademiya nauk Belorusskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
IAN Biol	-	Akademiya nauk SSSR. Izvestiya. Seriya biologicheskaya
IAN Energ	-	Akademiya nauk SSSR. Izvestiya. Energetika i transport
IAN Est	-	Akademiya nauk Estonskoy SSR. Izvestiya. Fizika matematika
IAN Fiz	-	Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya
IAN Fizika zemli	-	Akademiya nauk SSSR. Izvestiya. Fizika zemli
IAN Kh	-	Akademiya nauk SSSR. Izvestiya. Seriya khimicheskaya
IAN Lat	-	Akademiya nauk Latviyskoy SSR. Izvestiya
IAN Met	-	Akademiya nauk SSSR. Izvestiya. Metally
IAN Mold	-	Akademiya nauk Moldavskoy SSR. Izvestiya. Seriya fiziko-tehnicheskikh i matematicheskikh nauk
IAN SO SSSR	-	Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya
IAN Tadzh	-	Akademiya nauk Tadzhiksoy SSR. Izvestiya. Otdeleniye fiziko-matematicheskikh i geologo-khimicheskikh nauk
IAN TK	-	Akademiya nauk SSSR. Izvestiya. Tekhnicheskaya kibernetika
IAN Turk	-	Akademiya nauk Turkmenskoy SSR. Izvestiya. Seriya fiziko-tehnicheskikh, khimicheskikh, i geologicheskikh nauk
IAN Uzb	-	Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
IBAN	-	Bulgarska akademiya na naukite. Fizicheski institut. Izvestiya na fizicheskaya institut s ANEB
I-FZh	-	Inzhenerno-fizicheskiy zhurnal

IiR	-	Izobretatel' i ratsionalizator
ILEI	-	Leningradskiy elektrotekhnicheskiy institut. Izvestiya
IT	-	Izmeritel'naya tekhnika
IVUZ Avia	-	Izvestiya vysshikh uchebnykh zavedeniy. Aviationsnaya tekhnika
IVUZ Cher	-	Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya
IVUZ Energ	-	Izvestiya vysshikh uchebnykh zavedeniy. Energetika
IVUZ Fiz	-	Izvestiya vysshikh uchebnykh zavedeniy. Fizika
IVUZ Geod	-	Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos "yemka"
IVUZ Geol	-	Izvestiya vysshikh uchebnykh zavedeniy. Geologiya i razvedka
IVUZ Gorn	-	Izvestiya vysshikh uchebnykh zavedeniy. Gornyy zhurnal
IVUZ Mash	-	Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye
IVUZ Priboro	-	Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye
IVUZ Radioelektr	-	Izvestiya vysshikh uchebnykh zavedeniy. Radioelektronika
IVUZ Radiofiz	-	Izvestiya vysshikh uchebnykh zavedeniy. Radiofizika
IVUZ Stroi	-	Izvestiya vysshikh uchebnykh zavedeniy. Stroitel'stvo i arkhitektura
KhVE	-	Khimiya vysokikh energiy
KiK	-	Kinetika i kataliz
KL	-	Knizhnaya letopis'
Kristall	-	Kristallografiya
KSpF	-	Kratkiye soobshcheniya po fizike

LZhS	-	Letopis' zhurnal'nykh statey
MiTOM	-	Metallovedeniye i termicheskaya obrabotka materialov
MP	-	Mekhanika polimerov
MTT	-	Akademiya nauk SSSR. Izvestiya. Mekhanika tverdogo tela
MZhiG	-	Akademiya nauk SSSR. Izvestiya. Mekhanika zhidkosti i gaza
NK	-	Novyye knigi
NM	-	Akademiya nauk SSSR. Izvestiya. Neorganicheskiye materialy
NTO SSSR	-	Nauchno-tehnicheskiye obshchestva SSSR
OiS	-	Optika i spektroskopiya
OMP	-	Optiko-mekhanicheskaya promyshlennost'
Otkr izobr	-	Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki
PF	-	Postupy fizyki
Phys abs	-	Physics abstracts
PM	-	Prikladnaya mekanika
PMM	-	Prikladnaya matematika i mekanika
PSS	-	Physica status solidi
PSU	-	Pribory i sistemy upravleniya
PTE	-	Pribory i tekhnika eksperimenta
Radiotekh	-	Radiotekhnika
RiE	-	Radiotekhnika i elektronika
RZhAvtom	-	Referativnyy zhurnal. Avtomatika, telemekhanika i vychislitel'naya tekhnika
RZhElektr	-	Referativnyy zhurnal. Elektronika i yeye primeneniye

RZhF	-	Referativnyy zhurnal. Fizika
RZhFoto	-	Referativnyy zhurnal. Fotokinotekhnika
RZhGeod	-	Referativnyy zhurnal. Geodeziya i aeros"yemka
RZhGeofiz	-	Referativnyy zhurnal. Geofizika
RZhInf	-	Referativnyy zhurnal. Informatics
RZhKh	-	Referativnyy zhurnal. Khimiya
RZhMekh	-	Referativnyy zhurnal. Mekhanika
RZhMetrolog	-	Referativnyy zhurnal. Metrologiya i izmeritel'naya tekhnika
RZhRadiot	-	Referativnyy zhurnal. Radiotekhnika
SovSciRev	-	Soviet science review
TiEKh	-	Teoreticheskaya i eksperimental'naya khimiya
TKiT	-	Tekhnika kino i televideniya
TMF	-	Teoreticheskaya i matematicheskaya fizika
TVT	-	Teplofizika vysokikh temperatur
UFN	-	Uspekhi fizicheskikh nauk
UFZh	-	Ukrainskiy fizicheskiy zhurnal
UMS	-	Ustalost' metallov i splavov
UNF	-	Uspekhi nauchnoy fotografii
VAN	-	Akademiya nauk SSSR. Vestnik
VAN BSSR	-	Akademiya nauk Belorusskoy SSR. Vestnik
VAN KazSSR	-	Akademiya nauk Kazakhskoy SSR. Vestnik
VBU	-	Belorusskiy universitet. Vestnik
VNDKh SSSR	-	VNDKh SSSR. Informatsionnyy byulleten'
VLU	-	Leningradskiy universitet. Vestnik. Fizika, khimiya
VMU	-	Moskovskiy universitet. Vestnik. Seriya fizika, astronomiya

ZhETF	-	Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhETF P	-	Pis'ma v Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhFKh	-	Zhurnal fizicheskoy khimii
ZhNiPFIK	-	Zhurnal nauchnoy i prikladnoy fotografii i kinematografii
ZhNKh	-	Zhurnal neorganicheskoy khimii
ZhPK	-	Zhurnal prikladnoy khimii
ZhPMTF	-	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki
ZhPS	-	Zhurnal prikladnoy spektroskopii
ZhTF	-	Zhurnal tekhnicheskoy fiziki
ZhVMMF	-	Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki
ZL	-	Zavodskaya laboratoriya