

WOODS HOLE OCEANOGRAPHIC INSTITUTION

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SOVIET BOOKS AND PUBLICATIONS ON GEOLOGICAL AND
CHEMICAL OCEANOGRAPHY, HYDROLOGY, AND OTHER SUBJECTS
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TITLES AND SOME TRANSLATED CONTENTS AND NOTES

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TABLE OF CONTENTS

	Page No.
Introduction	1
Books on Oceanography.	3
Books on Hydrology (Continental) and Hydrogeology.	18
Books on Geology and Miscellaneous Topics.	24
Atlases.	33
Information on Procuring Soviet Publications	33
Conclusions.	37

The listed publications represent a selection, by no means complete, of recent Soviet work in geological and chemical oceanography. Some works on hydrogeology and hydrochemistry of the continents, as well as a few publications on other subjects, such as geology, geophysics, and biology, also are included. The publications were bought from kiosks at the second Oceanographic Congress (held at Moscow University), from various bookshops in Moscow, and from the VNIGRI (Petroleum Research Institute) kiosk in Leningrad. Time did not permit careful selection, and if the title and casual examination of a publication indicated any potential interest, I bought it with the idea that it was better to get too many books than miss useful ones. Most of the books were purchased on behalf of the Water Resources Division, U.S. Geological Survey. Ruble prices (e.g., 1.00 r. or 100 k., a kopek being 1/100 ruble) are listed at the end of each citation, and before comments or contents, if any. The official exchange rate is \$1.11 = R 1.00.

Many volumes in the present list are collections of articles on a general area of research, frequently by members of a given institution. This is a common method of publication for Soviet workers in oceanology and in other fields as well, and partly supplants periodicals. For example, an extensive sampling of world geologic literature for 1961 (H. E. Hawkes, 1966, *Geotimes*, v. 10, p. 23-43) showed that 33% of Soviet titles appeared in periodicals, versus 55% for North American and 70% for Western European literature. The Soviet predilection for symposia and collections of papers makes searching for information on a given subject more difficult for Westerners, since the monographs in question are often not

included in exchange agreements (except informal personal ones) with Western libraries and institutions, may be printed in small editions, and frequently escape notice in Western abstract journals. Unless one is fortunate enough to have a large number of personal contacts in the Soviet Union there seems to be little alternative to at least a rudimentary knowledge of Russian to stay abreast of work in the monograph field.

Sources of information on current Soviet monograph titles are given at the end of this publication, along with information on how to purchase Soviet literature and where to find such literature in the United States. The best and cheapest source of individual articles is reprints obtained from the author. At the present time, there appears to be little hindrance to a free exchange of literature; and it is becoming more common for Soviet scientists to take the initiative in such exchanges.

Agenorov, V. K., 1964, *Gidrofizicheskie issledovaniya* (Hydrophysical investigations): Izdat. "Naukova Dumka," Kiev, 91 p., 50 k.

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Agenorov, V. K. and Martsinkevich, L. M., Seventh Atlantic

Expedition of the Marine Hydrophysical Institute, p. 3-12.

Kosourov, G. I. and Ushakova, N. P., Long-lived beta activity in the Atlantic Ocean in 1960, p. 13-21.

Morskoi, G. I., Mexican cyclones, p. 22-28.

Gamutilov, A. E. and Istoshin, Yu. V., Hydrological conditions in the Sargasso Sea and adjacent parts of the Gulf Stream, p. 29-42.

Martsinkevich, L. M., Geostrophic currents in the northwestern parts of the Sargasso Sea and adjacent parts of the Gulf Stream, p. 43-53.

Typlukhin, V. F., Extinction of waves with depth, p. 54-63.

Neyimin, G. G., Sorokina, N. A., Paramonov, A. N., and Proshchin, V. N., Some results of optical studies in the northern part of the Atlantic Ocean, p. 64-75.

Agenorov, V. K., on diurnal fluctuations of solar energy in the oceans and their connection with optical density, p. 76-83.

Vladimirskaia, E. V., Preliminary results of studies of plankton from the northern parts of the Atlantic Ocean, p. 84- 91.

Aibulatov, N. A., 1966, *Issledovanie vdol' beregovogo peremeshcheniya peschanykh nanosov v more* (Studies of sand movements along seacoasts): Izdat. "Nauka," Moscow, 158 p., 93 k.

- Aksenov, A. A., 1962, Morskaya geologiya i dinamika beregov (Marine geology and dynamics of seashores): Okeanograficheskoi Komissii Trudy, v. 10, No. 3, 135 p., 78 k. Includes articles by Lisitsin on suspended matter in southern Indian Ocean, Udintsev on bottom topography, bottom sediments of Antarctica.
- Alekin, O. A., 1966, Khimiya Okeana (Chemistry of the Oceans): Gidrometeorologicheskoi Izdat., Leningrad, 245 p., 80 k. University text.
- Andrusov, N. I., 1965, Izbrannye Trudy (Collected works): Izdat. "Nauka," v. 4, Moscow, 403 p., 2.74 r. Contains general works, describes distribution of bottom sediments and organic matter in deep oceans, Quaternary deposits of various areas, the Selyanika Expedition to the Sea of Marmora, the Bosphorus, and the Caspian Sea.
- Bezrukov, P. L. (ed.), 1964, Geologiya dna okeanov i morei (Geology of the bottom of the seas and oceans): Mezhdunarodnyi Geologicheskikh Kongress 22nd Session, Doklady Sovetskikh Geologov, Probl. 16, Izdat. "Nauka," 140 p. 80 k. English contents and abstracts.
- Braude, S. T. (ed.), 1962, Radiookeanograficheskyye issledovaniya morskogo volneniya (Radio-oceanographic studies of sea waves): Izdat. Akad. Nauk Ukrainskoi SSR, Kiev, 116 p., 34 k.
- Bruevich, S. V. (ed.), 1960, Khimiya morya (Chemistry of the sea): Okeanograficheskoi Komissii Trudy, v. 10:2, 68 p., 40 k.

Contents

- Bruevich, S. V., Prospects for the development of chemical oceanography, p. 3-12.
- Shishkina, O. V., Influence of diagenesis on composition of interstitial waters of sediments, p. 13-20.

Milievskaya, V. V., On the question of the form of iron in waters and interstitial waters of the Black Sea, p. 21-29.

Starikova, N. D., Some data on organic matter in the liquid phase of sediments of the Black and Azov Seas, p. 30-38.

Romankevich, E. A., Organic matter in bottom sediments of the Pacific Ocean east of Kamchatka, p. 39-47.

Zaitseva, E. D., On the exchange capacity and exchangeable cations of sediments from the northwestern part of the Pacific Ocean and Far Eastern Seas, p. 48-55.

Gorshkova, T. I., Conditions of accumulation of organic matter in marine sediments, p. 56-60.

Musina, A. A. and Besysheva, E. V., Geochemical features of the arctic seas, p. 61-68.

Bruevich, S. V. (ed.), 1964, *Khimiya vod i osadkov morei i okeanov* (Chemistry of water and sediments of the oceans): Institut Okeanologii Trudy, v. 62, 242 p., 1 r. 46 k.

Contents: (English table of contents in original publication)

Lutsarev, S. V. and Bruevich, S. V., Carbon dioxide content of the air over the Pacific and Indian Oceans and over the region of the Black Sea, p. 7-40.

Tamontiev, V. P. and Bruevich, S. V., Strontium in the waters of the Pacific and Indian Oceans and of the Black Sea, p. 41-55.

Bruevich, S. V. and Zaitseva, E. D., Biogenic elements in the interstitial solutions of the Pacific Ocean, p. 56-91.

Ostroumov, E. A. and Volkov, I. I., Sulfates in bottom sediments of the Black Sea, p. 92-100.

- Volkov, I. I., Formation regularities and chemical composition of ferrous sulphide nodules in the Black Sea deposits, p. 101-134.
- Zhelesnova, A. A., The suspension effect in pH determination of sea sediments, p. 135-140.
- Ostroumov, E. A. and Volkov, I. I., Separation of indium and gallium from manganese, nickel, cobalt, and zinc with the help of cinnamic acid in application to study of sea deposits, p. 141-150.
- Ostroumov, E. A. and Volkov, I. I., A new method for gravimetric determination of beryllium and its separation from manganese, nickel, cobalt, and zinc with the help of cinnamic acid, p. 151-156.
- Starikova, N. D. and Yablokova, O. G., Method of determination of ammonium and organic nitrogen in solid and liquid parts of marine sediments, p. 157-164.
- Pavlova, G. A. and Shishkina, O. V., Methods of Determining iodine in interstitial waters, p. 165-176.
- Bruevich, S. V., Methods of determining chlorinity (salinity) in sea water, p. 177-215.
- Volkov, V. G., An instrument for the salinity and temperature depth measurement [sic], p. 216-229.
- Volkov, V. G., Electrosalinometer ES-61 and ES-62 for laboratory and expedition use, p. 230-241.
- Bruevich, S. V., 1962, *Tablitsy perescheta rezultatov gidrokhimicheskikh analizov* (Tables for recalculation of results of hydrochemical analyses): Izdat. Akad. Nauk, SSSR, Moscow, 82 p., 72 k. The work contains tables for converting weight units to atomic or equivalent units for forms of N, B, Fe, O, Si, Mn, S, CO₂, P, Na, K, Ca, Sr, Mg, Cl, SO₄, Br, and F.

- Bruevich, S. V. (ed.), 1966, Khimiya tikhogo okean (Chemistry of the Pacific Ocean): Izdat. "Nauka," Moscow, 358 p., 2.16 r. Studies of hydro-chemistry, salt cycles, etc.
- Chernevskaya, E. N., Pstukhova, N. M., Buinevich, A. G., Kudryavtseva, M. E. and Aunin'sh, Z. A., 1965, Gidrokhimicheskii rezhim Baltiiskogo Morya (Hydrochemistry of the Baltic Sea): Gidrometeoizdat Leningrad, 165 p., 82 k.
- Fedynskii, V. V. (ed.), 1963, Morskie gravimetricheskie issledovaniya (Marine gravimetric studies): Izdat. Moskovskogo Universiteta, 114 p., 60 k.

Contents

- Frolov, A. I., Gravimetric work of the GAISH on the Third Soviet Antarctic Expedition 1957-1958, p. 3-18.
- Frolov, A. I., Gravimetric work of the GAISH on the Fifth Soviet Antarctic Expedition 1959-1960, p. 19-34.
- Koryakin, E. D., Gravitational field of the Atlantic Ocean and its relation to the deep crust of the earth, p. 35-50.
- Gainanov, A. G., On some results of gravimetric studies in the Okhotsk Sea, the Kurile-Kamchatska trench and adjacent parts of the Pacific Ocean, p. 66-76.
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- Stroeve, P. A., Experimental work with a torsion gravimeter, p. 93-104.
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Contents

- Goncharov, V. P., Soviet marine geological work in the Mediterranean Sea, p. 3-9.
- Mikhailov, O. V., Bottom topography of the Mediterranean Sea, p. 10-19.
- Emelyanov, E. M., Mikhailov, O. V. and Shimkus, K. M., Some features of the geomorphology and tectonic structure of the Mediterranean Sea, p. 20-33.
- Moskalenko, V. N., Study of sedimentary thickness on the bottom of the Mediterranean Sea by seismic methods, p. 34-41.
- Emelyanov, E. M., Granulometric composition of recent sediments and some features of their formation in the Mediterranean Sea, p. 42-68.
- Prokoptsev, N. G., Methods of study of the grain size distribution of Mediterranean bottom sediments in the Laboratory of lithology, Inst. of Oceanography, Academy of Sciences, USSR, p. 69-70.
- Emelyanov, E. M., Carbonate content of recent sediments of the Mediterranean Sea, p. 71-83.
- Ovchinnikov, I. M., and Plakhin, E. A., Historical review of hydrologic studies on the Mediterranean Sea, p. 84-106.
- Ovchinnikov, I. M. and Fedoshev, A. F., Horizontal circulation of water in the Mediterranean during the spring and fall seasons, p. 107-118.

- Moskalenko, L. V., and Ovehinnikov, I. M., Water masses of the Mediterranean Sea, p. 119-130.
- Bogdanova, A. K., Seasonal fluctuation, discharge, and distribution of Mediterranean water into the Black Sea, p. 131-139.
- Vityuk, D. M., Some data on the concentration of organic carbon in surface water of the Aegean Sea, p. 140-145.
- Rozhanskaya, L. I., Some data on the concentration of cobalt in the Mediterranean Sea, p. 146-149.
- Belogorskaya, E. V., distribution of phytoplankton in the Tyrrhenian Sea, p. 150-159.
- Kondrat'eva, T. M., On the production of phytoplankton in the Mediterranean Sea, p. 160-164.
- Lanskaya, L. A., On the biology of Pontosphaira huxleyi Lohm, p. 165-170.
- Pavlova, E. V., Penetration of Mediterranean zooplankton into the Black Sea, p. 171-174.
- Sazhina, L. I., Distribution of zooplankton in the western half of the Mediterranean Sea, winter 1960-1961, p. 175-182.
- Shmeleva, A. A., Distribution of copepods and sardines in the Adriatic, p. 183-191.
- Kiseleva, M. I. and Chukhchin, V. D., Some data on the quantitative formation of macro and meo(?) benthos in the western part of the Mediterranean, p. 192-197.
- Makkaveeva, E. B., Biocoenoses of *Cystorhiza* and *Posidonia* in the Aegean and Adriatic Seas, p. 198-203.
- Dekhnik, T. V. and Sinyukova, V. I., Some features of the distribution of eggs and larvae of fish in the Mediterranean, p. 204-212.

- Salekhova, L. P., Growth of some bottom and shore-dwelling fish in the seas of the Mediterranean basin, p. 213-219.
- Naidenova, N. N., Rare larvae of the Contracaecum Railliet et Henry, 1912, Fish of the Mediterranean basin, p. 220-223.
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- Kolesnikova, A. G. (ed.), 1966, *Techenie Lemonosova* (Lomonsov Current): Izdat. "Naukova Dumka," Kiev, 175 p., 75 k. Collection of 9 papers.
- Kozlyan, M. V. (ed), 1965, *Gidroopticheskie issledovaniya* (Hydrooptical studies): Institut Okeanologii Trudy, v. 77, 137 p., 69 k. English contents and abstract. Collection of 18 papers.
- Lisitsin, A. P., 1966, *Protssessy sovremennogo osadkoobrazovaniya v Beringova Morya* (Formation of recent sediments in the Bering Sea): Izdat. "Nauka," Moscow, 574 p., plus map, 3.47 r.

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- Leont'ev, O. K., 1963, *Kratkii Kurs morskoi geologii* (Short course in marine geology): *Izdat. Moskovskogo universiteta, Moscow*, 463 p., 1.22 r.
- Manteifel', B. P. (ed.), 1965, *Razvitie morskikh podvodnykh issledovaniy* (Development of marine underwater studies): *Izdat. "Nauka," Moscow*, 168 p., 72 k.

Contents

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- Golikov, A. N. and Skarlato, O. A., Submarine hydrobiological work of the Zoological Institute, Academy of Science, SSSR, on the seas of the Far East, p. 8-14.
- Mokievskii, O. B., On the coral reefs of Indonesia, p. 15-20.
- Kiselev, O. N., Underwater observations from the bathyscaph "Sever 1," p. 21-27.
- Kireeva, M. S., Submarine visual observations in studies of distribution of algae, p. 28-33.
- Petrov, K. M., Use of divers and aerial methods in the study of underwater plant growth in seas, p. 34-41.
- Aronov, M. P. and Sotnikov, P. S., Underwater studies of caves, p. 42-52.
- Borovikov, P. A. and Brovko, B. P., Diving studies of Crimean caves, p. 53-59.

- Ionin, A. S., Kaplin, P. A. and Medvedev, V. S., Submarine studies of nearshore sediments of the Sher region, p. 60-68.
- Smirnov, G. N., Timchenko, P. F., Experience in submarine hydro-technical building, p. 69-72.
- Kaplin, P. A. and Medvedev, V. S., Some foreign achievements in submarine studies, p. 73-81.
- Azhazha, V. G., New advances in deep diving, p. 82-89.
- Dmitriev, A. N., Bathyscaph GA-2000, p. 90-105.
- Rogov, A. A., Submarine photographic apparatus, p. 106-119.
- Dzhus, V. E. and Maier, A. V., Submarine photography in turbid waters, p. 120-127.
- Loshchilov, V. S., Use of submarine stereophotogrammetric observations in ice cover, p. 128-139.
- Sokolov, O. A., Determination of transparency of water by means of discs, p. 140-153.
- Rybakov, V. I., Nikolaenko, A. G. and Staseev, Yu P., Use of movie cameras in studies of hydrodynamic processes, p. 154-163.
- Azhazha, V. G. and Stepanov, V. L., Participation of sports divers in scientific investigations, p. 164-167.
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- Shapkina, V. F., 1965, Issledovaniya v Atlanticheskom Okeane (Studies in the Atlantic Ocean): Morskoi Gidrofizicheskii Institut, Express-Informatsiya No. 1, Izdat. "Naukova Dumka," Kiev, 117 p., 47 k.
- Shuleikin, V. V. (ed.), 1962, Ocherki po fizike morya (Principles of marine physics): Izdat. Akad, Nauk SSSR, Moscow, 470 p., 2.26 r.
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Contents

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- Alekin, O. A. and Brazhnikova, L. V., Transport of dissolved material on the earth's surface, p. 28-38.
- Klenova, M. V. and Nikolaeva, V. K., Suspended matter in some rivers of the Soviet Union, p. 38-57.
- Lomanchenkov, V. S., On the question of supply of sedimentary material to Soviet Arctic Seas with especial reference to the Indigir delta, p. 57-59.
- Zelenov, K. K., Formation of iron and aluminum oxide suspensions in marine basins as a result of volcanic activity, p. 59-65.

- Bezrukov, P. L., Lisitsin, A. P., Petelin, V. P. and Skornyakova, N. S.,
Map of bottom sediments of the world oceans, p. 73-85. (with map).
- Lapina, N. N., Belov, N. A., Special features of sediment formation
in the northern Arctic Ocean, p. 86-97.
- Bezrukov, P. L., Lisitsin, A. P., Romankevich, Ea. A. and
Skornyakova, N. S., Recent sediment formation in the northern
Pacific Ocean (with map), p. 98-123.
- Lisitsin, A. P., Processes of recent sediment formation in the
southern and central Indian Ocean, p. 124-174.
- Lisitsin, A. P., Distribution and composition of suspended matter
in the seas and oceans, p. 175-231.
- Lisitsin, A. P., Transport of clastic material to the deep oceans
by ice, p. 232-284.
- Skopintsev, B. A., Some results of study of organic matter in
marine waters and applications to processes of sediment formation,
p. 285-286.
- Zverev, S. M., Kovylin, G. B. and Udintsev, G. B., Thickness of
bottom sediments of the oceans, p. 286-292.
- Lisitsin, A. P., Formation of recent sediments in the Bering Sea.
p. 317-367.
- Petelin, V. P., Granulometry and distribution of terrigenous
minerals in the Ikhotsk Sea, p. 368-379.
- Murdmaa, I. O., Recent marine sediments in the volcanic regions of
the Kurile Islands, p. 404-418.
- Klenova, M. V., Recent sediment formation in the Barents Sea, p. 419-436.
- Kulikov, N. N., Sediment formation in the Kara Sea, p. 437-447.

- Glagoleva, M. A., On the geochemistry of sediments of the Black Sea, p. 448-476.
- Gorshkova, T. I., Bottom sediments and interstitial waters of the Sea of Azov, p. 477-503.
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- Panov, D. G., Spichak, M. K., On conditions of sediment formation in the Sea of Azov, p. 512-520.
- Shishkina, O. V., Type of interstitial waters formed in marine sediments during diagenesis, p. 549-559.
- Tageeva, N. V., Tikhomirova, M. M. and Korunova, V. V., Formation of the composition of interstitial waters of diagenesis of marine sediments (with special reference to the northern sea), p. 560-576.
- Volkov, I. I., On the formation and alteration of sulfur species in sediments of the Black Sea, p. 577-596.
- Ostroumov, E. Z., Volkov, I. I. and Fomina, L. S., Distribution of forms of sulfur in bottom sediments of the Black Sea, p. 597-633.
- Strakhov, N. M., On the question of factors (controlling and) transforming sulfur in Black Sea sediments, p. 634-642.
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Contents

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Orlova, G. A., Use of luminophores to study sediment dynamics, p. 95-109.

Aksenov, A. A., On biogenic accumulations in the shore zone, p. 110-126.

Medvedev, V. S., On the formation of tidal benches, p. 127-139.

Esin, N. V., Rapid abrasion and erosion of underwater slopes,
p. 140-149.

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- Skornyakov, V. A., Daily hydrologic cycle of the River Sayan, 29-36.
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- Lastochkina, L. A. and Kurdyumov, L. D., Determining the water table of stream supply (tributaries), 52-57.
- Kurdyumov, L. D., On the question of fluid movement in a jointed bedrock, 58-67.

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- Speranskaya, A. A. and Man'kovskii, V. I., Electrometric, electrodeless device to measure current and direction, 77-81.
- Mikhailov, V. N., Bed processes at the mouths of rivers, 82-90.
- Bogoslovskii, B. B., Some characteristics of the Mozhai basin, summer 1960, 91-97.
- Tsytsarin, G. V., Some aspects of the salinity of the Altai drainage system of the Irtysh, 98-104.
- Ivanova, L. S., Dynamics of salinization and silting of Volga water, 105-118.
- Burkal'tseva, M. A., On the method of establishing the relationship $u = f(Q)$ for calculating the chemical denudation of mountain streams, 119-125.
- Evstigneev, V. M., On calculation of minimum flow in periodically frozen streams in the Baikal region, 126-127.
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Zaborovskii, A. I., Phase relations in inductive methods, 23-28.

Kuz'mina, E. N., On the question of the sign of potentials induced in conductive rocks, 29-40.

Lebedev, V. P., On the question of harmonic fluctuations of the electrical dipole about the junction of two capacitors, 41-51.

Nechaeva, G. P., On some results of changes in the polarizability of rocks, 52-58.

Frolov, A. D., On the question of inductive anomalies in high frequency electrical prospecting, 59-78.

Frolov, A. D., Apparatus for changing the amplitude and phase of transmission from radio stations, 79-82.

Khmelevskoi, V. K., Methods of subsurface electrical prospecting, 83-95.

Khmelevskoi, V. K., Basic theory of subsurface electrical prospecting, 96-112.

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- Aronov, V. I., Attempt to correct for anomalous gravity forces in mountain regions, 121-219.
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- Bryusov, B. A., Interpretation of statistical correlations of gravimetric and seismic data (possibility of), 136-153.
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- Volodarskii, R. F., Gilod, D. A., Demidova, M. A., Recent surficial folding in the Caucasus as shown by geophysical data, 162-170.
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- Vashchilov, Yu. Ya., Log-log nomograph to interpret ΔG values, 223-227.
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- Rusanov, E. B., Results of interpretations of geophysical studies in a rare metal carbonate massif, 261-268.
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Knizhnaya Letopis. This weekly listing compiles virtually all books and brochures issued in all subjects and all languages in the Soviet Union, together with the number of pages, number of copies printed, price, publishing house, and institution of origin. No abstracts are provided. The listing may be immediately after publication or may involve delay of as much as a year or two, or more. Besides the subject listing (Oceanography is found under Geological-Geographical sciences), there is a convenient periodic author and subject index, and all works are catalogued by a decimal system that identifies subject matter.

Knizhnaya Letopis (Dopol'nitelnyi vypusk). A supplement to Knizhnaya Letopis, this list gives minor technical brochures, instruction bulletins, course notes, catalogs, and also all dissertations submitted toward the fulfillment of higher educational degrees in the Soviet Union. Most useful here are the "Aftoreferat dissertatsii," or authors' summaries of dissertations, which may run to 100 pages or more.

Referativnyi Zhurnal (Journal of Abstracts). This well-known abstracting journal lists papers from all countries and in all scientific and technical subjects. Titles of western publications are given in the original language, but the abstracts are all in Russian. Although less comprehensive for Western publications in chemistry than Chemical Abstracts, from an overall point of view it is the most thorough and complete abstract journal for science and technology in the world, and it provides a virtually complete listing of books and journals in the Soviet Union. The journal is divided into different sections, each

of which can be ordered by subscription with or without indexes and in different degrees of completeness. For example, the entire series "Geografiya" with indexes comes out 24 times a year and costs \$61.50, whereas the partial issue "Geografiya: oceanology, hydrology of the continents, glaciology" comes out in monthly editions and costs \$10 for a year's subscription. Items in R. Zh. come out after a delay of a year or more, and therefore books in great demand may already be out of print if orders are placed from listings in the abstract journal.

Other Soviet Sources of monograph titles. Many publishing houses in the Soviet Union issue catalogs or advance publication lists, which can be obtained from the institutions that contribute publications to them, or from booksellers in this country and abroad that specialize in Soviet publications, but virtually all the books also appear in the above publications.

NOTE: Novye Knigi and Knizhnaya Letopis cost only about \$2 and \$5 per year, respectively. For those having some rudiments of Russian and the desire to keep abreast of Soviet work, the listings are worthwhile investments. They can be ordered from firms listed below.

Sources of monographs and monograph titles in the U.S. A number of institutions in the United States and Canada have good collections of Soviet periodical literature, but with the possible exception of the Library of Congress, monograph collections are poor and often virtually nonexistent. Since reprints are rare, used copies of interesting monographs are hard to find even in the Soviet Union, and translations of monographic literature into foreign languages are very limited, consultation or acquisition of older Soviet books is a difficult matter.

Essential works may be obtained via microfilm or photocopy from the Gosdarstvennaya Publichnaya Biblioteka, Leningrad, or the Lenin Library, Moscow, (Photoduplication Department).

Two firms in the U. S. keep large collections of current Soviet books in all fields. They also issue free regular listings of books (and records and artistic prints) on request. These firms are:

Victor Kamkin, Inc.
1410 Columbia Road, N. W.
Washington, D. C. 20009

and

Four Continent Book Corp.
156 Fifth Avenue
New York, New York 10010

The latter is registered with the State Department as an agent of V/O Mezhdunarodnaya Kniga, Moscow, USSR.

Both the above firms and those listed below will accept subscriptions to Soviet newspapers, journals, or magazines. Four Continents and the firms below accept current or advance orders on Soviet monographs.

Stechert Hafner, Inc.
31 East 10th Street
New York, New York

Schoenhof's Foreign Books, Inc.
Harvard Square
Cambridge, Mass. 02138

The cost of Soviet monographs delivered by mail through the firms listed is approximately double the equivalent ruble price. For example, a 327-page monograph may bear a ruble cost of 2.10 r. or \$2.32. The purchase price in the United States, with postage, may be around \$4.00-\$4.50.

In principle, any bookseller may order Soviet books, but in practice this is a specialized matter best left to firms that have experience and

personnel with the necessary language skills to do the job properly. A full list of firms handling Soviet literature in this country and abroad can be obtained from V/O Mezhdunarodnaya Kniga, Moscow, USSR.

CONCLUSIONS

A large part of Soviet scientific literature is published as monographs, which are poorly represented in American libraries and abstract journals. Very few are translated. These books are relatively easy to locate through advance and bibliographic lists published in the Soviet Union (Novye Knigi and Knizhnaya Letopis); subscriptions to these lists are inexpensive and may be obtained in this country.

Soviet books are issued in limited editions and are rarely reprinted. Hence, failure to get them as they come out may mean their permanent nonavailability for future reference. The trend is toward increasing importance of Russian literature in almost all scientific fields, and slowly increasing language competence in Russian on the part of American science graduates. These factors suggest that acquisition of current Soviet monographs of potential significance will provide a valuable resource to future workers, even though, at present, there may be little general knowledge of/or demand for Russian scientific books.

Woods Hole Oceanographic Institution
Reference No. 66-51

SOVIET BOOKS AND PUBLICATIONS ON GEOLOGICAL AND CHEMICAL OCEANOGRAPHY, HYDROLOGY, AND OTHER SUBJECTS ACQUIRED DURING THE SECOND INTERNATIONAL OCEANOGRAPHIC CONGRESS, MOSCOW, JUNE 1966: TITLES AND SOME TRANSLATED CONTENTS AND NOTES by F. T. Manheim. 37 pp. October 1966. Contract No. 14-08-0001-8358.

About 130 books were acquired in Moscow and Leningrad. Many of these are collections of articles on a given theme, a medium of publication which is much more common in the Soviet Union than in Europe or North America. In general, Soviet monographs are much less well known in the United States than is the Soviet periodical literature. Information on virtually all important monographs is available in a regular publication, *Knizhnaya Letopis* and desired books may be ordered from specialized booksellers in the U. S.

1. Soviet books
2. Oceanographic monographs
3. Russian language publications

- I. Manheim, Frank T.
- II. 14-08-0001-8358

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