

MAJOR MINERAL DEPOSITS, METALLOGENESIS, AND TECTONICS OF THE RUSSIAN FAR EAST, ALASKA, AND THE CANADIAN CORDILLERA Project Summary, Publication List, and Web Sites

INTRODUCTION

This project is providing critical information for collaborators and customers on the major metalliferous mineral resources, metallogenic patterns, and crustal origin and evolution of mineralizing systems for the Russian Far East, Alaska, and the Canadian Cordillera.

COLLABORATING AGENCIES

The major collaborating agencies for the project are the Russian Academy of Sciences, ROSKOMNEDRA, the Alaska Division of Geological and Geophysical Surveys, the Geological Survey of Canada, the U.S. Geological Survey, the University of Alaska, Michigan State University, Exxon Production Research, and the Geological Survey of Japan. Other Western supporters are Stanford University, Colorado School of Mines, University of Arizona, the Northwest Mining Association, the Alaska Miners Association, and the Society of Economic Geologists.

CUSTOMERS

Customers include scientists and managers in major governmental agencies, universities, private environmental, resource, and information companies, news media, and professional organizations in North America, Eastern Asia, and the Russian Far East. A major international customer is the Commerce Working Group of the Russia-USA Commission.



GOALS AND BENEFITS

The major scientific goals and benefits of the project are to: (1) provide a comprehensive international data base on the mineral resources of the region that is the first, extensive knowledge available in English in the West; (2) provide major new interpretations of the origin and crustal evolution of mineralizing systems and their host rocks. enhanced, thereby enabling broad-scale tectonic reconstructions and interpretations; and (3) promote trade and scientific and technical exchanges between the North America and Eastern Asia. Data from the project are providing sound scientific data and interpretations for commercial firms, governmental agencies, universities, and individuals that are developing new ventures and studies in the project area, and for land-use planning studies that deal with both mineral potential issues. The Russian Far East, Alaska and the Canadian Cordillera, have vast potential for known and undiscovered mineral deposits. In addition, major belts of mineral deposits (metallogenic belts) and host geologic units can be traced around the Circum-North Pacific from the Russian Far East into Alaska and the Canadian Cordillera.

SUCCESSOR PROJECT

This project is providing data, methods, and interpretations for a successor project on the Mineral Resources, Metallogenesis, and Tectonics of the Northeast Asia (Eastern and Southern Siberia, Mongolia, Northeastern China, South Korea, and Japan) that is a joint study of Russian Academy of Sciences, Academy of Sciences of the Sakha Republic (Yakutia), VNIIOkeangeologia and Ministry of Natural Resources of the Russian Federation, Mongolian Academy of Sciences, Mongolian University of Science and Technology, Mongolian National University, Jilin University, Changchun, China, China, Geological Survey, the Korean Institute of Geosciences and Mineral Resources, the Geological Survey of Japan/AIST, and the U.S. Geological Survey.

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- Circum-North Pacific Tectono-Stratigraphic Terrane Map by Nokleberg, W.J., Parfenov, L.M., and Monger, J.W.H., and Baranov, B.V., Byalobzhesky, S.G., Bundtzen, T.K., Feeney, T.D., Fujita, Kazuya, Gordey, S.P., Grantz, Arthur, Khanchuk, A.I., Natal'in, B.A., Natapov, L.M., Norton, I.O., Patton, W.W., Jr., Plafker, George, Scholl, D.W., Sokolov,

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- Significant Metalliferous Lode Deposits and Placer Districts for the Russian Far East, Alaska, and the Canadian Cordillera by Nokleberg, W.J., Bundtzen, T.K., Dawson, K.M., Eremin, R.A., Goryachev, N.A., Koch, R.D. Ratkin, V.V., Rozenblum, I.S., Shpikerman, V.I., Frolov, Y.F., Gorodinsky, M.E., Melnikov, V.D., Ognyanov, N.V., Petrachenko, E.D., Petrachenko, R.I., Pozdeev, A.I., Ross, K.V., Wood, D.H., Grybeck, Donald, Khanchuk, A.I., Kovbas, L.I., Nekrasov, I.Ya., and Sidorov, A.A., 1996: U.S. Geological Survey Open-File Report 96-513-A (paper format), 385 p. (\$57.75 paper format; \$4.00 microfiche format; \$3.50 shipping, either format).
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- Summary Circum-North Pacific Tectono-Stratigraphic Terrane Map by Nokleberg, W.J., Parfenov, L.M., Monger, J.W.H., and Baranov, B.V., and Byalobzhesky, S.G., Bundtzen, T.K., Feeney, T.D., Fujita, Kazuya, Gordey, S.P., Grantz, Arthur, Khanchuk, A.I., Natal'in, B.A., Natapov, L.M., Norton, I.O., Patton, W.W., Jr., Plafker, George, Scholl, D.W., Sokolov, S.D., Sosunov, G.M., Stone, D.B., Tabor, R.W., Tsukanov, N.V., Vallier, T.L. and Wakita, Koji, 1997: U.S. Geological Survey Open-File Report 96-727 1 sheet, scale 1:10,000,000. (\$15.00 plus \$3.50 shipping); and Geological Survey of Canada Open 3428, 1 sheet, scale 1:10,000,000 (\$19.50 Canadian; includes shipping). Available from USGS Maps on Demand Web site: http://rmmcweb.cr.usgs.gov/public/mod/interest.html (\$15.00).
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Ordering of Major Publications:

- Above U.S.G.S. Open-File Reports can be ordered by mail from the U.S. Geological Survey, Information Services, ESIC P.O. Box 25286, MS 517, Denver, CO 80225 (Telephone 303-202-4210) (FAX: 303-202-4188). The reports can also be borrowed for copying from the Earth Science Information Center, Suite 101, U.S.G.S., 4230 University Drive, Anchorage, Alaska 99508-4667 (Telephone 907-786-7007).
- Above G.S.C. Open-Files can be ordered by mail from: (1) the Geological Survey of Canada, Map and Publications Sales, 101 - 605 Robson Street, Vancouver, British Columbia, Canada V6B 5J3 (Telephone 604-666-0271).

VOLUME ON MINERAL DEPOSITS OF THE RUSSIAN NORTHEAST BY NORTHEAST SCIENCE CENTER, RUSSIAN ACADEMY OF SCIENCES, MAGADAN

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- Sketch on Metallogeny by Sidorov, A.A., Eremin, R.A., and Byalobzhesky, S.G., p. 7-11 (in Russian).
- Major Metallogenic Belts in Northeastern Russia by Eremin, R.A., Shpikerman, V.I., and Sidorov, A.A., p. 12-31 (in Russian).
- Gold by Goryachev, N.A., p. 32-54 (in Russian).
- Silver by Savva, N.E., p. 55-63 (in Russian).
- Tin Deposits by Pristavko, V.A., p. 64-69 (in Russian).
- Tungsten by Goryachev, N.A., p. 70-73 (in Russian).
- Cobalt by Goryachev, N.A., p. 74-75 (in Russian).
- Copper by Gorodinsky, M.E., and Shpikerman, V.I., p. 76-80 (in Russian).
- Lead-zinc by Shpikerman, V.I., p. 81-87 (in Russian).
- Antimony by Goryachev, N.A., p. 88-90 (in Russian).
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- Iron by Shpikerman, V.I., p. 98 (in Russian).

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- The Russian Far East Mineral Industry A Brief History by Bundtzen, T.K., p. 11-18.
- Magmatic Formations and Mineralization in the Okhotsk-Chukotka Volcanic Belt by Popeko, V.A., p. 19-28.
- Placer and Hardrock Gold Deposits of the Central Kolyma Area, Magadan Region, Northeast Russia by Tchapko, Vitali, p. 29-35.
- Platinum Occurrences in Ultramafic Massifs of the Koryak-Kamchatka Region by Sidorov, E.G., p. 36-38.
- Technologies Employed by the Russian Placer Mining Industry by Bogdanov, E.I., p. 50-59.
- Tectonics and Regional Metallogeny of the Verkhoyansk-Kolyma Region by Parfenov, L.M., 1995, p. 61-84.
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- Mesozoic Tectonics of the Southern Russian Far East and its Relationship to the Junction of the Central Asian and Pacific Mobile Belts by Borukayev, C.B., and Natal'in, B.A., p. 90-95.
- Genetic Types of Rare Earth Element (REE) Mineralization in the Russian Far East by Nekrasov, I.Ya., p. 96-102.
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- About Glaucophane Genesis in Connection with Blueschists near Seldovia by Plyusnina, L.P., and Likhoidov, G.G., Alaska, p. 121-127.
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- Geologic Review of Commercial Mineralization Types of the Okhotsk-Chukotka Volcanic Belt by Goncharov, V.I., p. 134-140.
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- http://geopubs.wr.usgs.gov/open-file/of96-513-b/
- Summary Terrane, Mineral Deposit, and Metallogenic Belt Maps of the Russian Far East, Alaska, and the Canadian Cordillera: U.S.G.S. Open-File Report 98-136: http://geopubs.wr.usgs.gov/open-file/of98-136/
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