

Significant Metalliferous and Selected Non-Metalliferous Lode Deposits, and Selected Placer Districts of Northeast Asia

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INTRODUCTION

This publication is a digital database compilation of the significant metalliferous and selected non-metalliferous lode deposits and placer districts of Northeast Asia. This region includes Eastern Siberia, Russian Far East, Mongolia, Northeast China, South Korea, and Japan. The report provides a detailed database of lode deposits and placer districts, a bibliography of cited references, descriptions of mineral deposit models, and a mineral deposit location map. Data are provided herein for 1,674 significant lode deposits and 91 placer districts of the region. The CD-ROM report is for sale by U.S. Geological Survey, Information Services, ESIC Open-File Reports, PO Box 25286, Denver, CO 80225 (Telephone 888-ASK-USGS).

ORGANIZATION OF CD-ROM

At the root (base level) of this CD-ROM are the 1_README.TXT file and the documentation for this publication (OF03-220.doc and OF03-220.pdf). The materials on the CD-ROM, including maps, tables, and articles, are stored in the following directories under the indicated file names. Articles and reference lists are in Word 6 format (*.doc) and in Adobe Acrobat Reader format (*.pdf). The location map is in Adobe Acrobat Reader format (.pdf). Databases are in FileMaker Pro 5 (*.fp5), Excel (*.xls), and

Word (.doc) formats. Plain-text files are in ASCII (*.txt) format.

This CD-ROM contains the following directories.

Acrobat. This directory contains Adobe Acrobat Reader installation programs for Windows and Macintosh computers. After installing this program, the files in PDF (*.pdf) format (text, figures, and maps) can be viewed and printed.

DATABASE. This directory contains mineral deposit and placer district databases for NE Asia.

LOCATION_MAP. This directory contains the map showing locations of lode deposits and placer districts for NE Asia with an underlying generalized geodynamics map of NE Asia and a list of geologic map units. The map is provided in Adobe Acrobat Reader (PDF) format.

MINMOD. This directory contains descriptions of mineral deposit models and references for NE Asia.

TEXT_FILES. This directory contains an introductory manuscript, and references for descriptions of lode deposits and placer districts.

CONTENTS OF DIRECTORIES ON CD-ROM

Directory	File or Subdirectory Names (Alphabetical Order)
Acrobat	Directories Mac and PC containing Adobe Acrobat Reader 5 and 6 installation programs.
DATABASE	lode deposits.fp5, .xls, .dbf, .doc and .txt placer districts.fp5, .xls, .dbf, .doc and .txt
LOCATION_MAP	locamap.pdf
MINMOD	deposit models.doc and .pdf
TEXT_FILES	introduction .doc and .pdf lode references.doc and .pdf placer references.doc and pdf

SYSTEM REQUIREMENTS

The data and text on this CD-ROM require either a UNIX® system-based or Linux® workstation, Macintosh® or compatible computer, or an IBM® or compatible personal computer, all

equipped with a CD-ROM drive and a color monitor that can display 256 colors (16.7 million recommended). To use this CD-ROM, a PC should have: Intel® Pentium® or equivalent processor, Microsoft® Windows® 95 OSR 2.0, Windows 98 SE, Windows Millennium,

Windows NT® 4.0 with Service Pack 5, Windows 2000, or Windows XP, and 64 MB of RAM. To use this CD-ROM, a Macintosh should have a PowerPC® processor, Mac OS software version 8.6, 9.0.4, 9.1, 9.2, or OS X, and 64 MB of RAM. Almost any UNIX system-based or Linux workstation can read these files.

On any platforms, you will need Adobe® Acrobat® Reader 5.0 or higher (included on this disk for Macintosh and Windows) or other software that can translate PDF files.

PORTABLE DOCUMENT FORMAT (PDF) FILES

This CD-ROM contains Portable Document Format (PDF) files for viewing and searching documents. The Acrobat directory contains installers for Adobe Acrobat Reader 5.0.5, 5.1 and 6.0 for both Windows (PC directory) and Macintosh (Mac directory). The installers are provided on this disc, or can be downloaded as the latest version of Adobe Acrobat Reader, free, via the Internet from the Adobe homepage on the World-Wide Web at <http://www.adobe.com/>. In order to view PDF files you will need a reader that can translate PDF files. This CD-ROM contains a full-text index (index.pdx and associated files in the index directory) that is for use in searching the PDF files for words or sets of words using the search tool in Acrobat Reader.

DISCLAIMERS

This Compact Disc-Read-Only-Memory (CD-ROM) publication was prepared by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, expressed or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed in this report, or represents that its use would not infringe privately owned rights. Reference therein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof.

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ASSOCIATED PROJECT

The materials on this CD-ROM are the result of major compilations and syntheses accomplished during a six-year project. 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; (2) provide major new interpretations of the origin and crustal evolution of mineralizing systems and their host rocks, thereby enabling enhanced, broad-scale tectonic reconstructions and interpretations; and (3) promote trade and scientific and technical exchanges between the North America and Northeast 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 mineral potential and environmental issues. Northeast Asia has vast potential for known and undiscovered mineral deposits; however, before this project, no detailed mineral deposit databases were published in English in the West.

CUSTOMERS AND COLLABORATING AGENCIES

Customers for this and the prior include: (1) major and minor mining, petroleum, environmental, construction, investment, and information companies, agencies, and organizations, (2) federal and state government agencies; (3) professional organizations; (4) earth science departments at universities; (5) news media; and (6) mineral resource, petroleum, and information company consultants. A major international customer is the Commerce Working Group of the Russian-U.S.A. Commission.

The collaborating agencies for the project are the Russian Academy of Sciences, Mongolian Academy of Sciences, Mongolian Technical University, the Changchun University of Earth Sciences, China, Ministry of Geology of China, the Korean Institute of Geology, Mining, and Materials, the Geological Survey of Japan, and the U.S. Geological Survey. Other U.S.A. project participants are the Colorado School of Mines, University of Alaska Fairbanks, Stanford University, and the Northwest Mining Association, Spokane, Washington.

STUDY AREA AND PLANNED PRODUCTS

The study area for the project consists of Eastern and Southern Siberia, Russian Far East, Mongolia, Northeastern China, South Korea, and Japan. The area is approximately bounded by 40° to 82° N. latitude and 75° to 144° E. longitude.

The planned products include: (a) detailed mineral resource tables and location maps based on original, cited references; (b) regional terrane and overlap-assemblage maps and detailed explanations that will provide the geologic setting for mineral deposits and metallogenic belts; (c) metallogenic-belt and mineral resource maps and interpretations; and (d) metallogenic and tectonic interpretations, including a four-dimensional time-space model depicting the crustal origin and evolution of mineral deposits. Publications for the project consist of, preliminary reports, and new and important regional geologic maps, map explanations, mineral deposit database (this report), and metallogenic belt maps. Project publications are being released in both paper format (professional scientific journals and USGS publications), digital format (CD-ROM), GIS (ARC-View) format on CD-ROM, and Internet/Web format.

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PROJECT SUMMARIES AVAILABLE ON INTERNET/WEB

Summary of project on Mineral Resources, Metallogenesis, and Tectonics of Northeast Asia (Eastern and Southern Siberia, Mongolia, Northeastern China, South Korea, and Japan)

<http://minerals.er.usgs.gov/wr/projects/minres.shtml>

Summary of project on Mineral Deposits, Metallogenesis, and Tectonics of the Russian Far East, Alaska, and the Canadian Cordillera

<http://minerals.usgs.gov/west/projects/majdepos.pdf>

PROJECT PUBLICATIONS AVAILABLE ON INTERNET/WEB

Preliminary Publications Book 1 From Project on Mineral Resources, Metallogenesis, and Tectonics of Northeast Asia: U.S.G.S. Open-File Report 99-165:

<http://geopubs.wr.usgs.gov/open-file/of99-165/>

Preliminary Publications Book 2 From Project on Mineral Resources, Metallogenesis, and Tectonics of Northeast Asia: U.S.G.S. Open-File Report 03-203:

<http://geopubs.wr.usgs.gov/open-file/of03-203/>

Preliminary Northeast Asia geodynamics map: U.S. Geological Survey Open-File Report 03-205:

<http://geopubs.wr.usgs.gov/open-file/of03-205/>

Preliminary metallogenic belt and mineral deposit location maps for Northeast Asia: U.S. Geological Survey Open-File Report 03-204:

<http://geopubs.wr.usgs.gov/open-file/of03-204/>

MAJOR PUBLICATIONS FROM PREVIOUS PROJECT ON CIRCUM-NORTH PACIFIC AVAILABLE ON INTERNET/WEB

Significant Metalliferous and Selected Non-Metalliferous Lode Deposits and Placer Districts for the Russian Far East, Alaska, and Canadian Cordillera: U.S.G.S. Open-File Report 96-513-B:

<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/>

Geographic Information Systems (GIS) Compilation of Geophysical, Geologic, and Tectonic Maps for the Circum-North Pacific: U.S. Geological Survey Open-File Report 99-422:

<http://geopubs.wr.usgs.gov/open-file/of99-422/>

Phanerozoic Tectonic Evolution of the Circum-North Pacific: U.S. Geological Survey Professional Paper 1626:

<http://geopubs.wr.usgs.gov/prof-paper/pp1626/>

Dynamic Computer Model for the Metallogenesis and Tectonics of the Circum-North Pacific: U.S. Geological Survey Open-File Report 01-161:

<http://geopubs.wr.usgs.gov/open-file/of01-161/>

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