

GIS newsletter

Published bi-monthly by the Geoscience Information Society
Number 48 ISSN 0046-5801 October 1977

NGSDC Issues Map On Western Geothermal Energy Resources

The National Geophysical and Solar-Terrestrial Data Center (NGSDC), in cooperation with the Energy Research and Development Administration and the U.S. Geological Survey, has prepared a multicolor map showing the geothermal energy resources and related data for the Western United States. "The area covered extends from slightly east of the Rocky Mountains to the Pacific coast and from Mexico to Canada. The map has been designed for use by geothermal specialists and nonspecialists alike. The geothermal areas shown include those that are now producing electrical power from steam-driven turbines, or are under development or have a known potential for the generation of electricity. Also depicted are areas where hot water presently is being used for nonelectrical purposes (e.g., heating of buildings, agriculture, and various manufacturing processes) or where there is a known potential for such use. In addition, the map presents other types of geological and geophysical data that are closely associated with geothermal resources.

The following are specific types of data shown on the map: (1) high-temperature hydrothermal convection systems, color coded according to temperature (from USGS Circular 726); (2) locations of over 1000 lower temperature thermal springs; (3) "Known Geothermal Resources Areas" (KGRAs); (4) areas valuable prospectively for geothermal resources; (5) locations and values of heat-flow measurements; (6) earthquake epicenters; (7) major faults; and (8) volcanoes and volcanic cones of Quaternary and late Tertiary age. Standard and some special data sources have been used, as indicated on the map legend. In addition, the map includes brief descriptions of 12 areas that have been developed or that have the potential for producing geothermal energy."

The map measures approximately 46 by 35 inches and is on the standard Albers Equal Area Projection at a scale of 1:2,500,000. Copies of *Geothermal energy resources map of the Western United States* are available from:

NOAA/National Ocean Survey
Distribution Division, C44
Riverdale, Maryland 20840

Specify if the map is to be folded or sent in a mailing tube (rolled). The cost is \$2.50. Make check or money order payable to "COMMERCE/NOS."

AAPG Map Series Covers Pacific Region

The American Association of Petroleum Geologists recently issued the first two maps in their Circum-Pacific Map Project series. Compiled for the Circum-Pacific Council for Energy and Mineral Resources, the set of six geographic maps offers the most up-to-date base for work in the Pacific, from the latest available sources. Five maps will cover separate Pacific sections at a scale of 1:10,000,000; the sixth will cover the entire region at a scale of 1:20,000,000. The maps are multi-colored editions depicting landforms and sea-floor features. Two-color base maps are also available. These do not have geographic names, topographic contours, or bathymetric tints. Intended specifically as a working base, they are marked with a two-degree latitude and longitude grid. The Northwest Quadrant and Northeast Quadrant are available from AAPG, Box 979, Tulsa, Okla. 74101. The multicolored maps are \$20.00 each; the two-color, \$6.00 each.

At the GIS annual meeting in Seattle, Neil Burk will present a paper entitled "The National Data Referral System for *Canadian Geoscience*," not *Canada Centre for Geoscience Data*, as reported in the August issue of the *Newsletter*.

USGS Initiates Direct-Mail Sale Of Open-File Reports

Effective October 1, 1977, the U.S. Geological Survey will fill direct-mail orders for USGS open-file reports. Requests should be directed to: Open-File Services Section, Branch of Distribution, U.S. Geological Survey, Box 25425, Federal Center, Denver, Colorado 80225 (Telephone: 303/234-5888). The service was initiated to furnish microfiche or paper-duplicate copies of open-file reports from a single, centrally-located facility; to provide faster order-filling service to the public; and to increase the availability of earth-science information to the scientific community. Price information will be published in the monthly *New publications of the Geological Survey*. Reports must be ordered by series, number, and complete title. Checks or money orders, in exact amount for open-file reports ordered, should be made payable to the U.S. Geological Survey. Prepayment is required.

Hart Phinney Named Head Of CSM Library

Hartley K. Phinney, Jr., GIS member and 1973 GIS President, has been appointed Head Librarian of the Arthur Lakes Library at the Colorado School of Mines. Prior to joining the faculty at CSM he was Chief of Reference and Circulation at the U.S. Geological Survey Library in Reston, Virginia, for three years. He has also served as Supervisor of the Technical Information Center and Library for the Chevron Oil Field Research Co. in La Habra, Calif., and Geology-Biology Librarian at Princeton University. A native of Stamford, Conn., Hart secured the B. A. degree at the University of Connecticut in 1960 and the Master's in Library Science in 1966 at the University of Pittsburgh. Among Phinney's initial responsibilities will be consulting in the construction of a \$1.92 million library addition, to get under way this fall, which will nearly double the size of the existing building.

New Publications

Annual summary of information on natural disasters no. 9, 1974. Paris, Unesco Press, 1976; distributed in U.S. by Unipub, New York. 100 p. pap. \$5.95.

Fossil invertebrates—collections in North American repositories 1976. A report of The Paleontological Society, Ad Hoc Committee on North American Resources in Invertebrate Paleontology (CONARIP). July 1977. 67 p. Limited copies available from: Department of Geology, The University of Iowa, Iowa City 52242.

GeoJournal; international journal for physical, biological and human geosciences and their application in environmental planning and ecology. Vol. 1, no. 1, 1977. Bi-monthly. DM248,- plus postage and handling. Available from: Akademische Verlagsgesellschaft, Postfach 1107, D-6200 Wiesbaden, FR Germany.

GeoJournal will frequently publish special thematic issues. The first issue is concerned with North Sea oil and gas.

The Geologists' year book 1977. 300 p. £8.00 (ISBN 085642-048-4) Available from Blandford Press, Link House, West St., Poole, Dorset BH15 1LL England.

The first edition of an international reference directory covering 110 countries. It includes universities with departments of geology or earth sciences, institutes, schools, polytechnics, including academies, foundations, missions, etc., concerned with geology, museums with geological collections, international research groups, commercial organizations, government departments, services, surveys or directorates, societies and associations.

Information management in the 1980's; proceedings of the American Society for Information Science's 40th annual meeting, 1977. (Volume 14) Compiled by Clayton A. Shepherd. 160 p. \$17.50; ASIS members, \$14.00. (LC 64-8303; ISBN 0-914236-12-1) Available from: Knowledge Industry Publications, Inc., 2 Corporate Park Drive, White Plains, New York 10604.

KWIC index of rock mechanics literature 1870-1968. Compiled by the Rock Mechanics Section of the Imperial College of Science and Technology, London, under the direction of Dr. E. Hoek. 2 vols. Oxford, Eng., Elmsford, N. Y., Pergamon Press, Sept. 1977. 870 p. \$100.00; £55.50.

This two-volume work contains 14,500 references on rock mechanics and related fields of science and engineering published between 1870 and 1968 and collected from journals, conference proceedings, technical reports and books. All references have been translated into English and all journal titles have been abbreviated in accordance with the CODEN listing of periodical titles published by the American Society for Testing Materials. It also contains a list of authors. A major update of this index, covering 1969-1977, will be available in Summer 1978.

Lindsay, D.G. Sea ice atlas of Arctic Canada, 1961-1968. 1976. 213 p. Spiral-bound, \$25.00. Available from: Renouf, Inc., 170 Fifth Avenue, New York, N. Y. 10010.

Reed, Juliet C. Annotated bibliography of minerals new to the Pennsylvania list., 1965-1974. 1976. Softcover, 83 p. \$3.25. Published by the Mineralogical Society of Pennsylvania, c/o Juliet C. Reed, 336 Rockland Road, Wayne, Pa. 19087.

Shell Oil Company, Inc. Stratigraphic atlas of North and Central America. Ed. by T. D. Cook and A. W. Bally. Princeton, New Jersey, Princeton University Press, 1977. 264 p. Cloth ed.: ISBN 08189-1, \$50.00. Spiral-bound ed.: ISBN 08193-X, \$15.00. (LCC 76-50278).

"Preparation of this atlas followed nearly sixty years of geological work on the continent by members of the exploration staff of Shell Oil Company." It includes 192 maps, 14 stratigraphic sections, 21 cross sections. Size: 12½ X 16¾ in.

World catalogue of very large floods. A contribution to the International Hydrological Programme. Paris, Unesco Press, 1976; distributed in U.S. by Unipub, New York. 424 p. pap. \$33.00. (Studies and reports in hydrology, 21)

Literature Citations

Fleisher, Michael. Second list of additions and corrections to *Glossary of mineral species, 1975*. *Mineralogical record*, vol. 8, no. 5, September-October 1977, p. 398-399.

A list of additions and corrections to the glossary published in *Mineralogical record*, vol. 7, no. 2, March-April 1976, p. 91-95. Includes 43 new minerals.

Tessier, Judith A., et al. User satisfaction with computer-based literature searches. *Special libraries*, vol. 68, no. 11, November 1977, p. 383-389.

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The *GIS newsletter* is published bi-monthly in February,
April, June, August, October and December by the
Geoscience Information Society. Subscription to the
Newsletter is \$12.00 per year and is included in the
Society's annual membership dues. All correspondence
relating to dues, membership status and address
changes should be directed to the GIS Secretary:

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GIS members are invited to contribute articles or news
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material to the Editor.

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