



Geology:

A Guide to Selected Resources

The following is a guide to selected resources in the field of geology available in Owen Library or through electronic access. Please consult a Reference Librarian for advice about the best information resources and research strategy for your specific topic.

Dictionaries & Encyclopedias

- Encyclopedia of Applied Geology* Reference QE5 .E5 1984
Charles W. Finkl, Jr., editor.
New York: Van Nostrand Reinhold, 1984.
- Encyclopedia of Caves and Karst Science* Reference GB601 .E535 2004
New York: Fitzroy Dearborn, 2005.
- Encyclopedia of Geology* (5 vols.) Reference QE5 .E516 2005
Richard C. Selley, ed.
Boston: Elsevier, 2005
- The Encyclopedia of Geomorphology* Reference GB10 .F3 1968b
Rhodes W. Fairbridge, ed.
Stroudsburg, PA: Dowden, Hutchinson & Ross, 1968.
- Encyclopedia of Physical Science and Technology* Reference Q123 .E497 2002
3rd ed. Robert A. Meyers, editor-in-chief.
San Diego, CA: Academic Press, 2002.
An 18-volume comprehensive encyclopedia containing signed articles in the physical sciences and technology. Articles offer an excellent starting point for library research in these disciplines.
- Encyclopedia of Sedimentology* Reference QE471 .E49
Rhodes W. Fairbridge and Joanne Bourgeois, editors.
Stroudsburg, PA: Dowden, Hutchinson & Ross, 1978.
- Encyclopedia of Volcanoes* Reference QE522 .E53 2000
Haraldur Sigurdsson, editor-in-chief.
San Diego, CA: Academic Press, 2000.
- Encyclopedia of World Regional Geology* Reference QE5 .F33
Rhodes W. Fairbridge, editor.
Stroudsburg, PA: Dowden, Hutchinson & Ross, 1975.
- Geology* Reference QE5 .G465 1999
James A. Woodhead, editor.
Pasadena, CA: Salem Press, 1999.
- Glossary of Geology* Reference QE5 .B38 1997
4th ed. Julia A. Jackson, editor
Alexandria, VA: American Geological Institute, 1997.
A dictionary of geological terms with definitions produced by the American Geological Institute

Macmillan Encyclopedia of Earth Sciences Reference QE5 .E5137 1996
E. Julius Dasch, editor
New York: Macmillan Reference USA, 1996.
This two-volume encyclopedia contains signed articles on all aspects of the earth sciences, including mineralogy, climatology, paleontology, history and biography.

Magill's Survey of Science: Earth Science Series. Reference QE28 .M33 1990
James A Woodhead, consulting editor.
Pasadena, CA: Salem Press, 1990-
This six-volume series contains signed articles on topics in the earth sciences. Articles include a summary, listing of key terms, bibliography and cross-references to related articles.

Oxford Companion to the Earth Reference QE5 .O94 2000
Paul L. Hancock and Brian J. Skinner, editors.
New York: Oxford University Press, 2000.

Handbooks

Gemstone & Mineral Data Book Reference TS752.5 .S56
New York: Winchester Press, 1972.

International Critical Tables of Numerical Data, Physics, Chemistry and Technology
National Research Council Available online through PITTcat
Norwich, NY: Knovel, 2003.

Manual of Mineralogy Reference QE 372 .K54 1999
New York: Wiley, 1999

Water Resources Handbook Reference TD345 .H257 1996
Larry W. Mays, editor-in-chief
New York: McGraw-Hill, 1996.

Indexes & Databases

***Locate under "Find Articles" by clicking "Looking for a particular database."**

Bibliography and Index of Geology Reference Index Shelves
Alexandria, VA: American Geological Institute.
Continues the *Bibliography and Index of Geology Exclusive of North America*. Monthly issues are in four sections: list of serials cited, fields of interest grouped by 30 broad subjects, subject index and author index. *Bibliography and Index of Geology* is photocomposed from the AGI's online database *GeoRef*. (--invert of the *Bibliography* title page)

*Compendex**
This database focuses on information published in journals on engineering topics. This is a good resource for finding information about remote sensing applications.

*GeoRef**
This database includes indexing and references to publications of the United States Geological Survey. It also indexes masters' theses and doctoral dissertations from both U.S. and Canadian universities. It covers the geology of North America from 1785 to the present and geology of the remaining part of the world from 1933. It includes links to full-text publications (*GeoRef Thesaurus* is located in Reference Z695.1 .G43 G46 2004).

Mineralogy Database

<http://www.webmineral.com/>

This database produced by the Mineralogical Society of America contains individual species descriptions with links and a comprehensive image library. It is a valuable resource for information on minerals. Browse the database by crystallography, chemical composition, physical and optical properties, New Dana classification, Strunz classification, and alphabetical listing.

National Geophysical Data Center

<http://www.ngdc.noaa.gov/>

NGDC manages environmental data in fields of marine geology, geophysics, solar-terrestrial physics, solid earth geophysics, and glaciology. Searchable database.

*National Technical Information Service (NTIS)**

Indexes U.S. government-funded technical reports on all subjects, including geology. Provides citations only.

Selected Water-Resources Abstracts

<http://water.usgs.gov/swra/>

A database on the subject of water resources from several sources for USGS abstracts.

Browsing by Call Numbers

Geochemistry	QE514 – QE516.5
Geology	QE
USGS	QE75-76
Geology, Structural	QE601 – QE613.5
Geophysics	QE500 –QE511.7; QC801 – QC809
Hydrology	GB651 – GB2998
Mineralogy	QE351 – QE399.2
Petrology	QE420 – QE499
Water Supply	TD201 – TD500

Some Useful Internet Resources

American Association of Petroleum Geologists

<http://www.aapg.org/>

American Geophysical Union

<http://www.agu.org/>

This site offers links to information about meetings, publications, and news. It also provides access to its archives, including journal table of contents, FTP dataset archives, and a complete index to all AGU books, journals, and other publications.

America Geological Institute

<http://www.agiweb.org/>

Association of American State Geologists

<http://www.stategeologists.org>

Digital Library of Earth Science Education

<http://www.dlese.org/dds/index.jsp>

Geographic Names Information System

<http://geonames.usgs.gov/>

This is a very useful site that allows you to search for information on named geographic features. It provides data on it, including data on latitude and longitude, brief population data and references to USGS maps.

Geological Society of America

<http://www.geosociety.org/index.htm>

Geoscience Information Society (GIS)

<http://www.geoinfo.org/>

Hydrology Web

<http://hvdrologvweb.nsl.gov/>

This web site, maintained by the Hydrology Group of the Pacific Northwest National Laboratory, is an excellent starting point for students seeking water information. It contains many helpful links to other water web sites. Offers data information, research, conference information, etc.

International Rivers Network (IRN) <http://www.irn.org/>

The IRN is an international organization striving to end the construction of destructive river development projects and promote sound river management around the world.

Pittsburgh Geological Society <http://www.pittsburghgeologicalsociety.org/publications.html>

This site is best used with Internet Explorer. It gives free downloads of field guides.

Minerals Yearbook <http://minerals.usgs.gov/minerals/pubs/myb.html>

International Association of Volcanology & Chemistry of the Earth's Interior

<http://www.iavcei.org/>

International Ground Water Modeling Center <http://typhoon.mines.edu/>

Site sponsored by the Colorado School of Mines. Their goal is to offer technical assistance and advice on ground water modeling.

Minerals, Metals & Materials Society <http://www.tms.org/TMSHome.html>

Soil Survey Publications <http://soils.usda.gov/survey/>

The USDA Natural Resources Conservation Service site provides links to soil surveys by state, soil maps, soil research results and access to the *Soil Geochemistry Spatial Database*.

The Pacific Northwest Seismograph Network <http://www.psn.org>

Seismological Society of America <http://www.seismosoc.org/ssa>

Structural Geology on the Web

http://www.science.smith.edu/departments/Geology/Structure_Resources

This site offers a collection of links to structural geology and tectonics resources, including links to data sets and bibliographies, images, software, books and journals, organizations, employment sites and structural geologists.

U.S. Environmental Protection Agency (EPA) <http://www.epa.gov/>

This government site provides access to a wealth of information on the environment, regulations, news and activities.

U.S. Geological Survey (USGS) <http://www.usgs.gov/>

Offers a wealth of information on topics in geology and related fields. Also includes employment information and student opportunities.

The West Antarctic Ice Sheet Initiative <http://igloo.gsfc.nasa.gov/wais>

World Meteorological Organization <http://www.wmo.ch/index-en.html>