



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

Encyclopedia of Caves and Karst Science

Reference GB601 .E535 2004

Encyclopedia of Geology (5 vols.)

Reference QE5 .E516 2005
Also available online through *PittCat*

The Encyclopedia of Geomorphology

Reference GB400.3 .E53 2004

Encyclopedic Dictionary of Hydrogeology

Reference GB1001.4 .P64 2009

Encyclopedia of Physical Science and Technology

Reference Q123 .E497 2002
Also available online through *PittCat*

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 Quaternary Science

Reference QE741 .E53 2007

Encyclopedia of Sedimentology

Reference QE471 .E49

Encyclopedia of Volcanoes

Reference QE522 .E53 2000
Also available online through *PittCat*

Encyclopedia of World Regional Geology

Reference QE5 .F33

Encyclopedic Dictionary of Hydrogeology

Reference GB1001.4 .P64 2009

Geology

Reference QE5 .G465 1999

Glossary of Geology

Reference QE5 .B38 1997

A dictionary of geological terms with definitions produced by the American Geological Institute.

Macmillan Encyclopedia of Earth Sciences

Reference QE5 .E5137 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

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

Handbooks

Cambridge Handbook of Earth Science Data

ReferenceQE26.3 .H45 2009

Gemstone & Mineral Data Book

TS752.5 .S56

International Critical Tables of Numerical Data, Physics, Chemistry and Technology

Available online through PittCat

Manual of Mineralogy

QE 372 .K54 1999

Water Resources Handbook

Reference TD345 .H257 1996

Indexes & Databases

*Locate under “Find Articles” tab, then click “Locate databases” and “By Title”.

Bibliography and Index of Geology

Reference Index Shelves

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.

USGS Water Resources of the United States

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

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

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.

American Geological Institute

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

Association of American State Geologists

<http://www.stategeologists.org>

Digital Library for Earth System Education

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

Field Conference of Pennsylvania Geologists

<http://fcopg.org>

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 the features, including information 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 Technical Group

<http://hydrology.pnl.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.

Pennsylvania Bureau of Topographic and Geologic survey

<http://www.dcnr.state.pa.us/topogeo/index.aspx>

Pennsylvania Council of Professional Geologists

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

PA DCNR Online Publications

<http://www.dcnr.state.pa.us/topogeo/pub/onlinepubs.aspx>

Pennsylvania Soilmap

<http://soilmap.psu.edu/>

Pittsburgh Geological Society

<http://pittsburghgeologicalsociety.org/publications.htm>

This site is best used with Internet Explorer. It provides free downloads of many 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.pnsn.org>

Seismological Society of America

<http://www.seismosoc.org/ssa>

Structural Geology on the Web

<http://www.structural-geology.org/>

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.

USGS Publications Warehouse

<http://pubs.er.usgs.gov/>

The West Antarctic Ice Sheet Initiative

<http://neptune.gsfc.nasa.gov/wais/>

World Meteorological Organization

http://www.wmo.int/pages/index_en.html