Bibliography of North American Geology, 1951
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iii
The current annual volume of the bibliographic series lists publications that have appeared during 1951 in the literature concerning the geology of the North American continent, including Greenland, the West Indies and other adjacent islands, and Hawaii, Guam, and other island possessions, but not the trust territories of the United States. In addition a few articles published before 1951, but not included in previous volumes of the series, are cited. Articles by American authors published in foreign journals are cited if they deal with North American localities or are of a general character, but not if they deal with foreign areas. Articles by foreign authors on North America are included regardless of place of publication; those of a general character are included if they appeared in North American journals.

The citations are listed alphabetically by author, with full title and publication data. The author section of the volume is followed by a subject index to the papers cited. Geologic names in the index are those used by the individual authors, and their listing here does not imply approval by the Geological Survey.

Assistance of Marjorie Hooker, Jane R. Cruise, Miriam B. Ketchum, Barbara L. Stringfield, Howard R. Cramer, Elisabeth S. Loud, and Jean G. Selby in preparation of the volume is acknowledged.


**ORGANIZATION OF THE INDEX**

Because the index to a bibliography can be used most effectively when the reader is familiar with its organization, the system of headings, subheadings, and entries used in the Index to the Bibliography of North American Geology is described in the following section.
Headings.—The headings are the main subdivisions of the index and are placed flush with the margin. Headings are of two general types: geographic and subject. Typical examples are Alaska, Alberta, Anthozoa, Anticlines. Although most of the headings remain the same in each issue of the Bibliography, new ones are introduced and others are discontinued as the need arises.

Headings with cross references.—Some headings have a cross reference only, that is, no entries are listed under the heading and the reader is referred to another heading. Examples are—

Dinosauria. See Reptilia.
Miocene. See Tertiary.
Ore deposits, origin. See Economic geology; Mineral deposits, origin.

Some of the headings that have entries listed under them also have cross references to other headings of a similar or related nature. General headings have cross references to specific ones more commonly than the reverse. Examples are—

Mollusca. See also Cephalopoda, Gastropoda, Invertebrata, Pelecypoda.
Mineral resources. See also the subheading Economic geology under the various states and countries.

Geographic headings.—The geographic headings are names of countries and colonial possessions in North America, the states, territories, and possessions of the United States, the provinces of Canada, and well-known physiographic areas such as Appalachians, Gulf Coast. Examples of geographic headings are Alabama, Alberta, Arctic America, Canada, Dominican Republic, Jamaica, Mexico, Nevada, North America, Ontario, United States. The headings Canada and United States are used to index papers covering the entire countries or more than two or three states or provinces. For example, the paper "Coal resources of Wyoming" is indexed under Wyoming, but "Coking-coal deposits of the western United States" is indexed under United States and not under each state discussed. A paper covering a geographic area is also indexed under the subject headings most appropriate to that paper—for the above examples, Coal.

Subject headings.—The subject headings deal with the subject of the paper rather than the geographic area. They include the general subdivisions of geology, such as Economic geology, Mineralogy, Paleontology; the phyla and more important classes of animals; the eras and periods of geologic time; the important economic mineral groups, such as Copper, Petroleum, Uranium; geologic features and processes, such as Faults and faulting, Glaciation; and other geologic subjects. Papers that do not cover any geographic area are necessarily indexed under subject headings only; most papers, however, are indexed under counterbalancing geographic and subject headings. A few of the subject headings and the general scope of the entries under them are—
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<td>Mineral descriptions</td>
<td>Mineral name; includes new minerals.</td>
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<td>Nomenclature</td>
<td>Subject; chiefly paleontologic, but includes some mineralogic, stratigraphic, etc. Restricted to extensive or unusual changes in names.</td>
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Subheadings.—Subheadings, in italics and indented two spaces from the margin, are used to group the entries under the geographic headings and under four of the subject headings. Under the geographic headings, these subheadings are used: Areas described, Economic geology, Geologic maps, Ground water, Historical geology, Mineralogy, Paleontology, Petrology, Physical geology, Physiographic geology. Areas described is used only for a general description of an area, without enough emphasis to warrant indexing under the other subheadings. The relatively few entries that do not fit under any of the above subheadings are placed directly under the geographic heading, with the necessary information contained in the entry.

The subject headings Earth, Maps, Paleontology, and Technique have subheadings. Earth has the subheadings Age, Crust, Interior, Temperature. Paleontology has subheadings for the age divisions Cambrian, Carboniferous, etc., in alphabetical order. The heading Maps (exclusive of Geologic maps, which is a separate heading) has the subheadings Aeromagnetic, Geophysical, Mineral, etc. Technique has the subheadings Apparatus, Geophysical, Mapping, etc.

Entries.—The entries are indented four spaces from the margin and are printed in the same roman type as the headings. Each entry is followed by the name of the author. A number following the author's name refers to the paper so numbered in the Bibliography if more than one paper is listed under an author's name.

The beginning of the entry can be either subject or geographic. Under geographic headings the entries may be additional geographic breakdowns, subject alone, or a combination of geographic and subject. The order within the entry depends partly on the nature of the subheading: for example, entries under the subheadings Economic geology and Mineralogy more commonly begin with the subject, whereas entries under Geologic maps and Historical geology almost always begin with the area. Under subject headings, the entries can begin with either subject or area, depending on the nature of the heading and of the paper indexed. The following are typical entries under geographic and subject headings:
INTRODUCTION

California.

- Economic geology.
  Chromite, El Dorado County: Cater, F. W., Jr.
  Healdsburg quadrangle: Gealey, W. K.
  Mercury, New Almaden mines, Santa Clara County: Bailey, E. H.
  San Francisco Bay counties: Bowen, O. E., Jr., 3
  Mineral resources, Fresno County: Logan, C. A.

- Geologic maps.
  Bitterwater Creek area: Heikkila, H. H.
  Healdsburg quadrangle: Gealey, W. K.
  Los Angeles Basin, outcrop areas, Cretaceous: Schoellhammer, J. E.
  Rincon pegmatite district: Hanley, J. B.

Cambrian.

- Maryland, Sugarloaf Mtn. area: Scotford, D. M.
- Tennessee, Great Smoky fault: Abbott, W. O.

Classification.

- Algae, Upper Paleozoic: Johnson, J. H., 1
- Coal, petrographic: Hacquebard, P. A., 1
- Patterned ground, Arctic America: Washburn, A. L.
SERIALS

The following list gives both the abbreviated citation and the full name of periodicals and serials that have been most commonly cited in this bibliography. A few of the less common ones, which list the place of publication as well as the citation within the bibliography proper, have not been included here. Publications that include many articles, such as guidebooks, conferences, congresses, symposia, etc., may be entered under either the editor or the society which sponsored them, with full information given there. Papers contained in them may also be cited individually in the abbreviated form, which refers the reader to the editor or author, where full information is given. Such material will not be found in this list.


A. I. M. E. Trans.—American Institute of Mining and Metallurgical Engineers Transactions. New York City.


Am. Scientist—American Scientist. New Haven, Conn.


Arctic. Montreal.


Bol. Historia Nat.—Boletín de Historia Natural. Havana, Cuba.


Calif. Oil Fields—California Oil Fields. San Francisco.


Calif. Univ., Scripps Inst. Oceanography Submarine Geology Rept.—California University, Scripps Institution of Oceanography Submarine Geology Report. La Jolla, Calif.


Canada Dominion Observatory Pubs.—Canada Dominion Observatory Publications. Ottawa.


Canadian Pacific Synopsis. Montreal, Winnipeg, Calgary, Canada.

Ciencia. Mexico City.

Colo. School Mines Quart.—Colorado School of Mines Quarterly. Golden, Colo.


Compass—The Compass. Austin, Texas.


Earthquake Notes. Washington, D. C.

Ecol. Mon.—Ecological Monographs. Durham, N. C.

Econ. Geology—Economic Geology. Urbana, Ill.


Field & Lab.—Field & Laboratory. Dallas, Texas.

Fieldiana Geology. Chicago.


Fondren Sci. Ser.—Fondren Science Series. Dallas, Texas.

Gems and Gemology. Los Angeles.


Geophysics. Austin, Texas.
Hopper—The Hopper. Norman, Okla.
Ing. Civil—Ingeniería Civil. Havana, Cuba.
Los Angeles County Museum Quart.—Los Angeles County Museum Quarterly. Los Angeles.
Mineralogist—The Mineralogist. Portland, Oreg.
Min. Eng.—Mining Engineering. New York City.
Nat. History—Natural History. New York City.
Naturaliste Canadien—Le Naturaliste Canadien. Quebec City.
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Ohio Jour. Sci.—Ohio Journal of Science. Columbus, Ohio.


Oil and Gas Jour.—Oil and Gas Journal. Tulsa, Okla.

Oil in Canada. Winnipeg, Manitoba.


Pacific Discovery. San Francisco.


Photogrammetric Eng.—Photogrammetric Engineering. Washington, D.C.

Plateau. Flagstaff, Ariz.

Pop. Astronomy—Popular Astronomy. Northfield, Minn.

Precambrian—The Precambrian. Winnipeg, Manitoba.


Rocks and Minerals. Peekskill, N. Y.


Shale Shaker. Oklahoma City.
Sierra Club Bull.—Sierra Club Bulletin. San Francisco.
Soil Science. Baltimore, Md.
Texas Univ., Bur. Econ. Geology Pub.; Rept. Inv.—Texas University, Bureau of Economic Geology Publications; Reports of Investigations. Austin, Texas.
337695*—55—2
Western Miner. Vancouver, British Columbia.
World Oil. Houston, Texas.
World Petroleum. New York City.
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Badollet, Marion Smith.


Bader, Henri.


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Bailey, Reed Warner.

Bailey, Sturges W. 

Bailey, Thomas Ferrell.

Bailey, Willard Francis.

Baillie, Andrew Dollar.

Baird, David McCurdy.

Baird, Donald.

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Ball, Max Waite.

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