BIBLIOGRAPHY

OF

NORTH AMERICAN GEOLOGY

FOR

1912

WITH SUBJECT INDEX

BY

JOHN M. NICKLES

GOVERNMENT PRINTING OFFICE

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1913
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BIBLIOGRAPHY OF NORTH AMERICAN GEOLOGY FOR
1912, WITH SUBJECT INDEX.

By John M. Nickles.

INTRODUCTION.

The bibliography of North American geology, including paleontology, petrology, and mineralogy, for the year 1912, follows the plan and arrangement of its immediate predecessors, the bibliographies for 1906-7, 1908, 1909, 1910, and 1911 (Bulletins 372, 409, 444, 495, and 524 of the U. S. Geological Survey). It includes publications bearing on the geology of the Continent of North America and adjoining islands, also Panama and the Hawaiian Islands. Papers by American writers on the geology of other parts of the world are not included. Textbooks and papers general in character by American authors are included; those by foreign authors are excluded unless they appear in American publications.

As heretofore, the papers, with full title and medium of publication and explanatory note when the title is not fully self-explanatory, are listed under the authors, arranged in alphabetic order. The author list is followed by an index to the literature listed. In this index the entries in one alphabet are of three kinds—first, subject, with various subdivisions, to enable the specialist to ascertain readily all the papers bearing on a particular subject or area; second, titles of papers, many of them abbreviated or inverted, under their leading words; and third, cross references, which have been freely used to avoid too much repetition. The subjects have been printed in black-faced type, the titles of papers and cross references in ordinary type. As it may not be always obvious which subject headings have been adopted, a classified scheme of those used immediately precedes the index.

Miss Isabel P. Evans has given efficient assistance in preparing the material for the press.

The bibliography of North American geology is comprised in the following bulletins of the United States Geological Survey: No. 127 (1732-1892); Nos. 188 and 189 (1892-1900); No. 301 (1901-1905); No. 372 (1906-7); No. 409 (1908); No. 444 (1909); No. 495 (1910); No. 524 (1911); and No. 545 (1912).
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Clark, William Bullock, and Miller, Benjamin Le Roy.


Clark, William Bullock, and others.


Includes the following sections:
- The physiography of the Coastal Plain of North Carolina, by William Bullock Clark, pp. 23–33.
- The stratigraphy of the Coastal Plain of North Carolina, by William Bullock Clark, B. L. Miller, and L. W. Stephenson, pp. 34–44.
- Bibliography, by B. L. Miller and L. W. Stephenson, pp. 44–73.
- The Cretaceous formations, by L. W. Stephenson, pp. 73–171.
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- The quality of some waters of the Coastal Plain of North Carolina, by Horatio N. Parker, pp. 484–500.

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Discusses the average composition of igneous and sedimentary rocks and the character and magnitude of marine sedimentation.


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Cleland, Herdman F.


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Includes notes on the local geography and the occurrence and character of the copper ores at Santa Rita, Grant County, New Mexico.


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Cockerell, T. D. A.


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Cole, L. H.


Coleman, A. P.


Collins, George E.


Collins, W. H.


Collister, M. C.

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Condit, D. Dale.


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Mining conditions under the City of Scranton, Pa. See Griffith and Conner, no. 404.

Conway, E. F.

The terranes of Irasburg, Vermont. See Richardson and Conway, no. 906.
Cook, Chas. W.

The salt industry of Michigan; Michigan cement. See Allen and others, no. 13.

Cook, Harold James.


Gives lists by formations of the fossil Tertiary mammals found in Sioux County, Nebr.


Describes *Epiaphelops virgasectus* n. gen. and sp. from the Miocene beds of western Nebraska.

Cooper, H. C.

Die optischen Eigenschaften einiger Bleisilikate. See Kraus and others, no. 610.

Cornish, Vaughan.


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The Sarchi earthquake, Costa Rica. See Tristañ and others, no. 1103.

Coulter, John M.


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261. Sandstone pinnacles: Geologische Charakterbilder (H. Stille), Heft 11, 5 pls. and explanatory text, 1912.

Gives reproductions of photographs, with descriptive text, of erosion forms in western Nebraska and Colorado.

262. Silica and lime deposition: Geologische Charakterbilder (H. Stille), Heft 12, 6 pls. and explanatory text, 1912.

Gives reproductions of photographs taken in Yellowstone National Park, Mono Lake, Cal., and Cataract Canyon, Ariz., illustrating sinter deposits.


**Davis, Charles A.**


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Includes notes on the local geology and the occurrence and character of gold lodes and placers.

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Summary of mineral production in the United States in 1911, compiled by W. T. Thom, pp. 91-112.

Metals and metallic ores in 1910 and 1911, by H. D. McCaskey, pp. 113-118.


Manganese and manganiferous ores, by Ernest F. Burchard, pp. 191-208.


Copper, by B. S. Butler, pp. 255-313.

Lead, by C. E. Siebenthal, pp. 315-351.


Cadmium, by C. E. Siebenthal, pp. 399-401.

Gold, silver, copper, lead, and zinc in the Western States (mine production):

   Arizona, by V. C. Helkes, pp. 420-462.
   California, by Charles G. Yale, pp. 462-505.
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Tungsten, vanadium, uranium, titanium, molybdenum, nickel, cobalt, tantalum, tin, antimony, bismuth, and selenium, by Frank L. Hess, pp. 941-977.

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**PART II.**

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Walcott, Charles D.


Includes descriptions of the trilobites Anomocare convexus n. sp., Coosia superbula n. gen. and sp., and Coosia robusta from the middle Cambrian of Alabama and Tennessee.


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Proposes Waucoban to replace Georgian for lower Cambrian and St. Croixan-for upper Cambrian instead of Saratogan.


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8172°—Bull. 545—13——8
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1. GENERAL.

Associations; meeting; Addresses; History; Philosophy; Biography; Bibliography; Educational; Text-books.
Classification; Nomenclature; Cartography; Technique; Fieldwork; Surveys; Borings.
Geochemistry; Chemical analyses (list); Atmosphere; Radioactivity.
Experimental investigations; Miscellaneous.

2. REGIONAL.

The States of the Union, Alabama, etc.; the Provinces of Canada, Alberta, etc.; Greenland; Mexico; the countries of Central America; the West Indies, and the single islands; the Hawaiian Islands.

3. ECONOMIC.

Ore deposits, origin; Contact phenomena.
Gold; Placers; Black sands; Silver; Quicksilver; Nickel; Cobalt; Copper; Lead; Zinc; Iron; Magnetite; Manganese; Tin; Aluminum; Bauxite; Antimony; Bismuth; Tungsten; Wolframite; Vanadium; Uranium; Carnotite ores; Molybdenum; Molybdenite; Titanium; Rutile; Platinum; Iridium; Rhodium; Palladium; Cadmium; Monazite; Rare earths; Tantalum; Selenium; Tellurium; Zircon.
Coal; Anthracite; Coke; Peat; Lignite; Bituminous rock; Natural gas; Petroleum; Oil shales; Asphalt; Albertite; Gisbonite; Grahameite; Ozokerite.
Stone; Building stone; Granite; Bluestone; Limestone; Lime; Marble; Onyx; Sandstone; Clay; Kaolin; Bentonite; Fire clay; Ganister; Slate; Shale; Marl; Sand; Glass sand; Sand-line brick; Gravel; Cement and cement materials; Concrete materials; Road materials; Trap; Steatite; Soapstone; Talc; Serpentine.
Precious stones; Diamonds; Sapphires; Turquoise; Tourmaline.
Abrasive materials; Corundum; Emery; Garnet; Diatomaceous earth; Tripoli; Volcanic ash; Millstones; Novaculite.
Asbestos; Feldspar; Micr; Quartz; Gypsum; Graphite; Fuller's earth; Infusorial earth; Magnesite; Mineral paint; Chromium; Chromite; Chromic iron ore; Fluorspar; Barite; Barlytes; Strontium; Arsenic; Pyrite; Sulphur; Sulphate of soda; Cryolite; Phosphorus; Phosphate; Apatite; Potash; Alumite; Glauconite; Borax; Bromine; Salt; Natron deposits.

4. DYNAMIC AND STRUCTURAL.

Earth, genesis of; Earth, age of; Earth, interior of; Earth, temperature of. Volcanism; Volcanoes; Earthquakes; Seismology; Seismographs; Mud-volcanoes.
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Isostasy; Orogeny; Changes of level.
Magmas; Intrusions; Dikes; Laccoliths; Metamorphism; Contact phenomena.
Deformation; Folding; Faulting; Unconformities.
Conglomerates; Concretions; Stalactites; Jointing; Cleavage.
Sedimentation; Denudation; Erosion; Caves; Sink holes; Erratic bowlders;
Weathering; Wind work; Dunes; Loess; Landslides.
Glaciers; Glacial erosion; Eskers; Kames; Moraines; Kettle holes.
Drainage changes.

5. PHYSIOGRAPHIC.

Geomorphy; Relief maps.
Valleys; Cirques; Deserts; Dunes; Deltas; Alluvial fans; Eskers; Kames;
Mounds, natural; Natural bridges; Sink holes; Karsts.
Lakes; Swamps; Marshes; Everglades; Terraces; Beaches; Shore lines;
Rivers; Meanders; Falls; Springs.

6. HISTORIC OR STRATIGRAPHIC.

Geologic history; Geologic time; Paleogeography; Paleogeographic maps;
Paleoclimatology.
Geologic maps; Geologic formations described (list).
Pre-Cambrian; Paleozoic (undifferentiated); Cambrian; Ordovician; Silurian;
Devonian; Carboniferous; Triassic; Jurassic; Cretaceous; Tertiary;
Quaternary; Recent; Glacial geology; Glaciation; Glacial lakes; Ice ages.

7. PALEONTOLOGY.

Geographic distribution; Evolution; Restorations.
Vertebrata; Man, fossil; Mammalia; Aves; Reptilia; Amphibia; Pisces; Foot-
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Invertebrata; Arthropoda; Crustacea; Trilobita; Ostracoda; Insecta; Arachnid;
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Coelenterata; Anthozoa; Hydrozoa; Graptolites.
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Paleobotany; Diatoms.
Problematica.

8. PETROLOGY.

Rocks, origin; Rocks, structural features; Rocks described (list); Igneous
and volcanic rocks; Rock-forming minerals; Lava; Oolite; Pebbles.

9. MINERALOGY.

Minerals described (list); Crystallography; Pseudomorphism; Paragenesis of
minerals; Rock-forming minerals; Meteorites.

10. UNDERGROUND WATER.

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11. SOILS.
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Fairhaven member, Miocene, Maryland: Miller, 758.
Farnham series, Ordovician, Quebec: Harris, 453.
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Fayette terrane, Devonian, Iowa: Keyes, 577.
Fayetteville shale, Mississippian, Oklahoma: Snider, 1005.
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Fernie shale, Jurassic, Alberta: Dowling, 285; Leach, 643.
Finnic sandstone, Carboniferous, Kentucky: Glenn, 371.
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Fishkill limestone, Cambrian, New York: Hartnagel, 432.
Fishpot ("Sewickley") limestone member, Pennsylvania, Pennsylvania: Munn, 782.
Flaming Gorge formation, Cretaceous, Utah: Lupton, 680.
Floyd formation, Mississippian, Georgia: Maynard, 738.
Floyd limestone, Devonian, Iowa: Thomas, 1076.
Forbes terrane, Cretaceous, Iowa: Keyes, 577.
Fordham gneiss, pre-Cambrian, New York: Hartnagel, 432.
Fort Ancient division, Ordovician, Ohio and Kentucky: Fiserste, 327.
Fort Benton formation, Cretaceous, Wyoming: Jamison, 539.
Fort Hays limestone, Cretaceous, Kansas: Parker, 826.
Fort Payne chert, Mississippian, Georgia: Maynard, 738.
Fort Riley limestone, Permian, Oklahoma: Oher and Garrett, 803.
Fort Scott formation, Carboniferous, Oklahoma: Oher and Garrett, 803.
Fort Union formation, Wyoming: Jamison, 539; Winchester, 1231.
Fort Union formation, Eocene, Wyoming: Davis, 269.
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Fort Union formation, Tertiary, North Dakota: Piobel, 601.
Fort Union formation, Tertiary, Wyoming: Wegemann, 1179; Woodruff and Winchester, 1246.
Fournier group, Ordovician to Devonian, New Brunswick: Young, 1258.
Fox Hills sandstone, Cretaceous, Wyoming: Jamison, 540; Wegemann, 1178, 1179.
Fox Hills sandstone, Wyoming: Winchester, 1231.
Frankfort shale, Ordovician, New York: Hartnagel, 432.
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Franklin limestone, pre-Cambrian, New York: Hartnagel, 432.
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Freda sandstones, Cambrian, Michigan: Lane, 627.
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Fulton green shale, Carboniferous, West Virginia: Hennen, 447.
Furnaceville iron ore, Silurian, New York: Hartnagel, 432.
Gabriola formation, Cretaceous, British Columbia: Clapp, 183.
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Galen terrane, Ordovician, Iowa: Keyes, 577.
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Genesee shale, Devonian, Ontario: Staffor, 1023.
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Georgian group, Cambrian, New York: Hartnagel, 432.
Genundewa limestone, Devonian, New York: Hartnagel, 432.

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Gillmore limestone, Carboniferous, West Virginia: Hennen, 447.

Gillmore sandstone, Carboniferous, West Virginia: Hennen, 447.

Girardeau formation, Silurian, Missouri: Crane, 233.


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Glens Falls limestone, Ordovician, New York: Hartnagel, 432.

Glens Falls limestone, Ordovician, Missouri: Crane, 233.

Glens Falls limestone, Ordovician, New York: Hartnagel, 432.

Glenwood terrane, Ordovician, Iowa: Keyes, 577.

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Goshen mica schist, Vermont: Hitchcock, 473.

Grafton sandstone, Carboniferous, West Virginia: Hennen, 447.

Grand Falls chert, Mississippian, Oklahoma: Snider, 1005.


Grassy black shales, Carboniferous, Iowa, Missouri: Keyes, 578.

Grassy black shale, Carboniferous, Missouri: Keyes, 578.

Grassy terrane, Carboniferous, Iowa: Keyes, 577.

Graves Creek formation, Pleistocene, Kentucky: Glenn, 373.

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Green River formation, Tertiary, Utah: Lupton, 690.

Greene formation, Permian, Pennsylvania: Munn, 782.

Greenhorn limestone, Upper Cretaceous, Colorado: Stose, 1056.


Grenville series, pre-Cambrian, New York: Hartnagel, 432.

Grenville series, pre-Cambrian, Quebec: Stansfield, 1018.

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itary, Manitoba and Saskatchewan: Ries and Keele, 916.

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LaSalle limestone, Pennsylvanian, Illinois:

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Laurentian, pre-Cambrian, Ontario: Bur-rows, 137; Collins, 218; Lawson, 637; Moore, 780.

Laurentian, pre-Cambrian, Ontario and Quebec: Wilson, 1220.

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Lewis shale, Cretaceous, Wyoming: Jaml- son, 539.

Leyden phyllite, Vermont: Hitchcock, 473.

Lime Creek shale, Devonian, Iowa: Norton et al., 800.

Lime Creek shales, Devonian, Iowa: Keyes, 578.

Lime Creek terrane, Devonian, Iowa: Keyes, 577.

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Lowville limestone, Ordovician, New York: Hartnagel, 432.

Lowville, Ordovician, Ontario: Foerste, 329.

Lowville beds, Ordovician, Ontario: Johns- ton, 557.


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McLeansboro formation, Carboniferous, Illinois: Shaw, 970.
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Madison limestone, Mississippian, Montana: Calvert, 159.
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Mahoning sandstone member, Pennsylvanian, Ohio, West Virginia, Kentucky: Phalen, 850.
Malignant Cove formation, Ordovician, Nova Scotia: Williams, 1211.
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