

**BIBLIOGRAPHY  
OF ALASKAN GEOLOGY  
1831 - 1918**

SR 21

**Compiled by:  
CRAWFORD E. FRITTS and MILDRED E. BROWN**

**State of Alaska  
Department of Natural Resources  
DIVISION OF GEOLOGICAL SURVEY  
College, Alaska  
1971**

STATE OF ALASKA

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DIVISION OF GEOLOGICAL SURVEY

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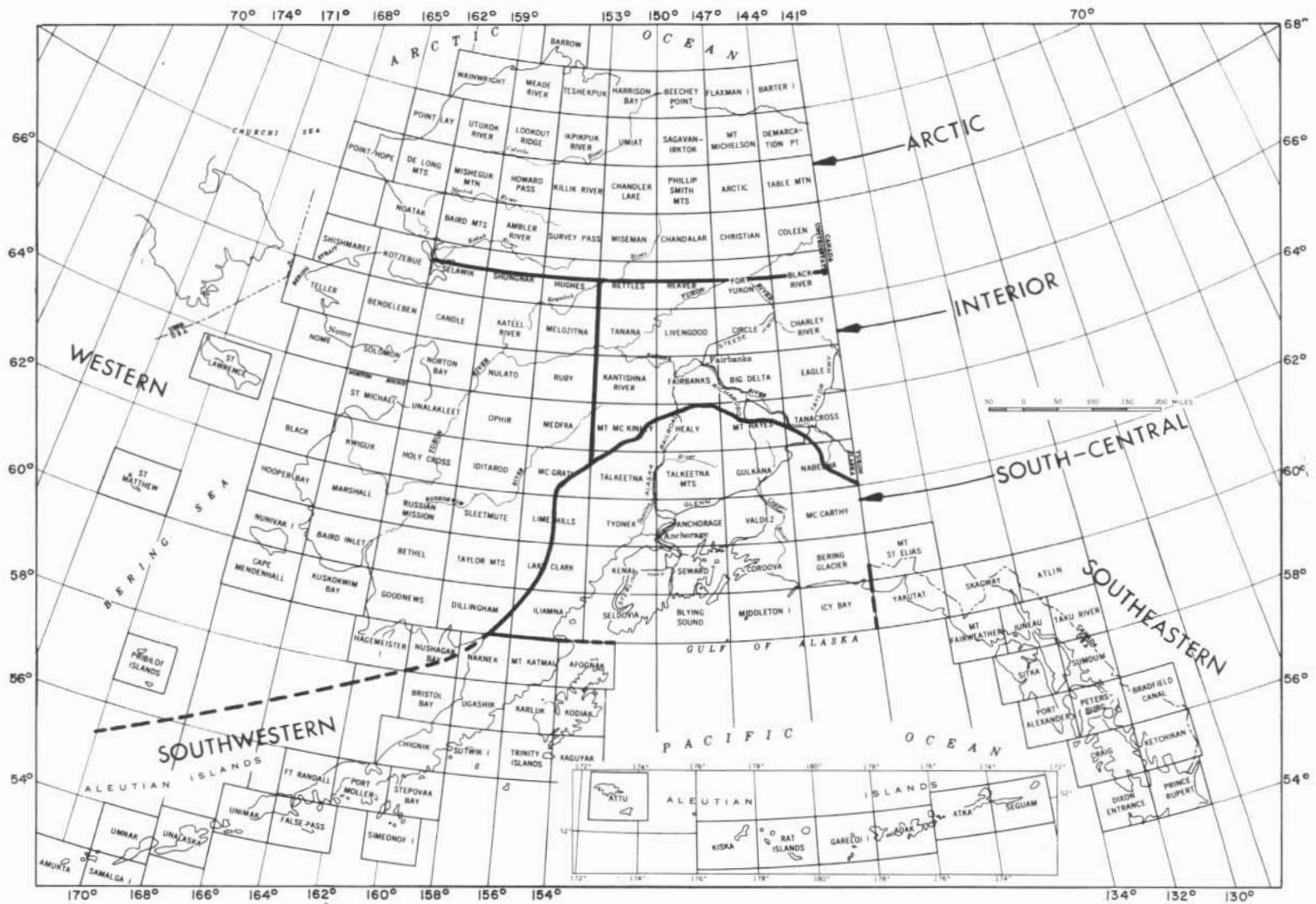


Figure 1. Quadrangles and major geographic divisions of Alaska referred to in this report

## I N T R O D U C T I O N

## PURPOSE, SOURCE AND FORMAT

The Bibliography of Alaskan Geology, 1831-1918, is one volume of a series designed specifically for geologists and others who seek geological literature about Alaska. The earliest geologic work recorded here was that of Buckland (1831). A few entries have been added for historical interest, namely, Dall and Baker (1879), Baker (1900, 1901, 1906), Grinnell (1901), and Orth (1967). Most others listed here were obtained from two publications entitled Geologic Literature on North America, 1785-1918 (U. S. Geological Survey Bulletins 746 and 747, bibliography and index, respectively), which are the initial volumes of a series now known as the Bibliography of North American Geology. Data from that source have been modified where necessary to facilitate use of the material by the reader, as explained below. No effort was made to confirm the data by firsthand observation of each article or report. Thus information concerning corrections or additions to this volume will be appreciated. [See Errata, p. 88]

The basic format used here is similar to that adopted by the U. S. Geological Survey. The main part of this volume consists of a bibliography in which all entries are arranged alphabetically by last names of authors or senior authors. The year of publication of each article or report has been moved to a position immediately after its author or authors to facilitate use of the index, which follows the bibliography. In the index, each reference to a given subject is listed by author and year of publication.

Under most major headings in the index, subject material and references are listed according to six arbitrary geographic divisions of the State shown in Figure 1. These divisions or units currently are used by the Alaska Geological Survey for convenience in report writing and related work. Boundaries are based on bedrock geology, topography, parallels of latitude, and meridians of longitude. The six units are as follows:

- (1) Arctic Alaska, including the Brooks Range and other parts of the State north of the Arctic Circle, which is near latitude  $66^{\circ}32'25''$  N.
- (2) Western Alaska, including the Seward Peninsula, Pribilof Islands, and other parts of the State south of the Arctic Circle, northwest of the Alaska Range, and west of meridian  $153^{\circ}$  W.
- (3) Interior Alaska, including that part of the State south of the Arctic Circle, north of the Alaska Range, and east of meridian  $153^{\circ}$  W.
- (4) Southwestern Alaska, including the Aleutian Islands, Kodiak Island, and the Alaska Peninsula south of parallel  $59^{\circ}$  N.
- (5) South-central Alaska, including the Alaska Range, adjacent mountainous terrain, and intermediate lowlands north of parallel  $59^{\circ}$  N. and west of meridian  $141^{\circ}$  W.
- (6) Southeastern Alaska, including all of the State east of meridian  $141^{\circ}$  W.

In using this volume, the reader may wish to consult the subject index first to find an appropriate reference cited by author and year of publication. The complete reference then can be found in the bibliography under the same author and year. Abbreviations used there are explained under the headings Serial Publications, Other Publishing Media, and Miscellaneous Abbreviations. Finally, the reader may seek the article or report in a suitable library.

## COMPILATION

The first four volumes of this bibliographic series contain the titles of some 2635 reports, articles, and maps pertaining to earth science in Alaska, which were published during a period of 134 years as follows

- (1) 1831-1918, 88 years, 750 entries
- (2) 1919-1949, 31 years, 670 entries
- (3) 1950-1959, 10 years, 599 entries
- (4) 1960-1964, 5 years, 616 entries

This tabulation reflects approximately a 10-fold increase in the rate of publication of geologic literature from the time of the Alaska purchase in 1867 to statehood in 1959. This increase was due largely to the maturation and diversification of the science of geology during the last two thirds of the 19th century and the first two thirds of the 20th century. The bibliography itself, however, reflects other major changes in our society, such as the accelerating increase in world population, education, and technology during the same 134-year period. For example, the common means of reaching Alaska has changed from sailing vessels to jet aircraft, and helicopters now provide access to even the least accessible parts of the State.

Preparation of a series such as this is complicated by the fact that publication media, bibliographic form, spelling, abbreviations, indexing categories, and arbitrary geographic divisions of Alaska all have varied with time. In order to attain approximate standardization of entries and indexes, therefore, the first four volumes of this series have been compiled in the order 4, 3, 1, 2. In volumes 4 and 3, original data have been changed very little, because the bibliographic form, abbreviations, and indexes in the source material taken from appropriate volumes of the Bibliography of North American Geology for the period 1950-1964 generally conform with present standards. In volume 1, on the other hand, it was necessary to revise rather completely the original bibliographic form, especially to lengthen abbreviations, and to add several categories to the index in order to make this volume resemble others of the series. The senior author accepts full responsibility for such revisions. In all four volumes, he has tried to cross index appropriately those entries which may concern parts of more than one geographic division of the State shown in Figure 1.

## ACKNOWLEDGEMENTS

Final typing and most of the preliminary extraction and compilation of data for these four volumes were done by the junior author, Mrs. Brown. She was assisted by Mrs. Patricia Dieterich in the preparation of volume 4 and by Mrs. Ellen Tuell in the preparation of volumes 1 and 2. Most of the checking and revising of individual entries plus the final compilation, indexing, and editing were done by the senior author. Mr. Robert Garland checked the titles and contents of several articles and reports listed in volume 1. Personnel of the University of Alaska library at College also assisted in the location and translation of some of the older and more obscure entries listed in this volume. Mr. Edward Holmes checked the completed manuscripts and supervised final layout and printing. The bibliographies were printed by the State of Alaska, Department of Natural Resources, Division of Lands, in Anchorage.

## SERIAL PUBLICATIONS

- Acad. Nat. Sci. Philadelphia Proc.  
 Proceedings of the Academy of Natural Sciences of Philadelphia  
 Philadelphia, Pennsylvania
- Acad. Sci. Dijon Mém.  
 Académie des Sciences, Arts et Belles-lettres, Dijon, Mémoire [Academy of  
 Sciences, Arts and Letters, Dijon, Memoir]  
 Dijon, France
- Acad. Sci. Paris, Comptes Rendus  
 Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences  
 [Weekly Proceedings of Meetings of the Academy of Sciences]  
 Paris, France
- Alpina Americana  
 Alpina Americana. American Alpine Club  
 Philadelphia, Pennsylvania
- Am. Acad. Arts Sci. Proc.  
 American Academy of Arts and Sciences, Proceedings  
 Boston, Massachusetts
- Am. Geog. Soc. Bull.  
 Bulletin of the American Geographical (and Statistical) Society of New York  
 New York, New York
- Am. Geologist  
 American Geologist (Superseded by Economic Geology)  
 Minneapolis, Minnesota
- Am. Inst. Mining Engineers (Bi-monthly) Bull.  
 American Institute of Mining Engineers (Bi-monthly) Bulletin. American  
 Institute of Mining Engineers; predecessor of American Institute of Mining  
 and Metallurgical Engineers; predecessor of American Institute of Mining,  
 Metallurgical and Petroleum Engineers  
 New York, New York
- Am. Inst. Mining Engineers Trans.  
 American Institute of Mining Engineers, Transactions  
 New York, New York
- Am. Jour. Sci.  
 American Journal of Science. Yale University  
 New Haven, Connecticut
- Am. Mining Cong. ... Papers and Proc. (or Rept. Proc.)  
 American Mining Congress...Papers and Proceedings (or Report of Proceedings)  
 Various locations
- Am. Museum Nat. History Bull.  
 American Museum of Natural History, Bulletin  
 New York, New York

- Am. Naturalist  
American Naturalist  
Salem, Massachusetts, and other locations
- Annales Mines  
Annales des Mines. [Annals of Mines, or Mines Annals]  
Paris, France
- Appalachia  
Appalachia. Appalachian Mountain Club  
Boston, Massachusetts
- Assoc. Am. Geographers Annals  
Annals of the Association of American Geographers  
Washington, D. C.
- Beiträge Geophysik  
Beiträge zur Geophysik [Contributions to Geophysics]  
Stuttgart, Germany (Formerly at Leipzig, Germany)
- Boston Soc. Nat. History Proc.  
Proceedings of the Boston Society of Natural History  
Boston, Massachusetts
- British Assoc. Adv. Sci. Rept.  
British Association for the Advancement of Science, Report  
London, England
- California Acad. Sci. Proc.  
Proceedings of the California Academy of Sciences  
San Francisco, California
- Canada, Geol. Survey, Mem.  
Canada, Geological Survey, Memoir (Geological Survey of Canada Memoir)  
Ottawa, Ontario, Canada
- Canada, Geol. Survey, Summ. Rept.  
Canada, Geological Survey, Summary Report (Geological Survey of Canada Summary  
Report)  
Ottawa, Ontario, Canada
- Canadian Mining Inst. Bull.  
Canadian Mining Institute, Bulletin  
Montreal, Quebec, Canada
- Canadian Mining Inst. Jour.  
Canadian Mining Institute, Journal  
Montreal, Quebec, Canada
- Canadian Mining Inst. Trans.  
Canadian Mining Institute, Transactions  
Montreal, Quebec, Canada



- Canadian Rec. Sci.  
Canadian Record of Science  
Montreal, Quebec, Canada
- Century Mag.  
Century (Illustrated) Monthly Magazine  
New York, New York
- Coal Age  
Coal Age. Devoted to coal mining and coke manufacture  
New York, New York
- Colliery Eng.  
Colliery Engineer. Predecessor of Mines and Minerals. Later merged into Coal  
Age.  
Pottsville and Scranton, Pennsylvania
- Colorado School Mines Mag.  
Colorado School of Mines Magazine  
Golden, Colorado
- Deutsche Geographische Blätter  
Deutsche Geographische Blätter. Geographischen Gesellschaft. [German  
Geographical Leaflet or Newspaper. Geographical Society]  
Bremen, Germany
- Econ. Geology  
Economic Geology and the Bulletin of the Society of Economic Geologists.  
The Economic Geology Publishing Company  
Blacksburg, Virginia (Formerly at Urbana, Illinois; Lancaster, Pennsylvania)
- Eng. Mag.  
Engineering Magazine  
New York, New York
- Eng. Mining Jour.  
Engineering and Mining Journal. McGraw Hill Publishing Company  
New York, New York
- Franklin Inst. Jour.  
Franklin Institute Journal  
Philadelphia, Pennsylvania
- Geog. Jour.  
Geographical Journal. Royal Geographical Society of London  
London, England
- Geog. Rev.  
Geographical Review. American Geographical Society of New York  
New York, New York
- Geog. Soc. Pacific Trans.  
Geographical Society of the Pacific, Transactions  
Various locations

- Geog. Soc. Philadelphia Bull.  
Bulletin of the Geographical Society of Philadelphia  
Philadelphia, Pennsylvania
- Geog. Zeitschr.  
Geographische Zeitschrift [Geographical Journal]  
Leipzig, Germany
- Geol. Mag.  
Geological Magazine. Monthly Journal of Geology. Stephen Austin and Sons  
Hertford, England (Formerly London, England)
- Geol. Soc. America Bull.  
Geological Society of America Bulletin  
Boulder, Colorado (Formerly at New York City; Rochester, New York; elsewhere)
- Geol. Soc. London Quart. Jour.  
Geological Society of London, Quarterly Journal  
London, England
- Geologische Rundschau  
Geologische Rundschau. Internationales Jahrbuch für Geologie. Geologische  
Vereinigung. Ferdinand Enke Verlag. [Geological Circular (or Journal).  
International Yearbook of Geology. Geological Association. Ferdinand Enke  
Publisher]  
Stuttgart, Federal Republic of Germany (Formerly at Leipzig, Germany)
- Illinois Acad. Sci. Trans.  
Transactions of the Illinois Academy of Science  
Springfield, Illinois
- Inst. Mining Engineers Trans.  
Transactions of the Institution of Mining Engineers  
Newcastle-upon-Tyne, England
- Inst. Mining Metall. Trans.  
Transactions of the Institution of Mining and Metallurgy  
London, England
- Internat. Geol. Cong. ... Rept. (or Guidebook)  
International Geological Congress...Report (or Guidebook)  
Various locations
- Iowa Acad. Sci. Proc.  
Proceedings of the Iowa Academy of Science. University of Northern Iowa  
Cedar Falls, Iowa (Formerly at Des Moines, Iowa)
- Jour. Geology  
Journal of Geology. University of Chicago Press  
Chicago, Illinois
- Jour. School Geography  
Journal of School Geography. Devoted to the interests of geography teachers  
New York, New York, or Lancaster, Pennsylvania

- Kong. Svenska Vet.-Akad. Hand.; Öfv.  
 Kongliga-Svenska Vetenskaps-Akademiens Handlingar; Öfversigt til Handlingar  
 [Royal Swedish Academy of Sciences Proceedings; Summary of Proceedings]  
 Stockholm, Sweden
- Malacological Soc. London Proc.  
 Proceedings of the Malacological Society of London  
 London, England
- Mines and Minerals  
 Mines and Minerals  
 Scranton, Pennsylvania
- Mining (Eng.) World  
 Mining (and Engineering) World  
 Chicago, Illinois
- Mining Mag.  
 Mining Magazine  
 New York, New York, or London, England
- Mining Metall.  
 Mining and Metallurgy. American Institute of Mining and Metallurgical Engineers  
 New York, New York
- Mining Sci. Press  
 Mining and Scientific Press  
 San Francisco, California
- Natl. Geog. Mag.  
 National Geographic Magazine. National Geographic Society  
 Washington, D. C.
- Nature  
 Nature. A Weekly Journal of Science. Macmillan (Journals) Limited  
 London, England
- Nature, La  
 La Nature [Nature]  
 Paris, France
- Naturen  
 Naturen. Illustrert maanedsskrift for populaer naturvidenskap.  
 Bergens Museum. [Nature. Illustrated magazine for popular natural science.  
 Bergen Museum]  
 Bergen, Norway
- Naturf. Gesell. Leipzig Sitzungsber.  
 Naturforschende Gesellschaft zu Leipzig, Sitzungsberichte [Natural Science  
 Society of Leipzig, Report of Proceedings]  
 Leipzig, Germany

## Nautilus

The Nautilus. The Pilsbry quarterly devoted to the interests of conchologists.  
 American Malacological Union  
 Havertown, Pennsylvania (Formerly at Boston, Massachusetts; Philadelphia,  
 Pennsylvania)

## New York Acad. Sci. Annals

Annals of the New York Academy of Sciences  
 New York, New York

## New York Acad. Sci. Trans.

Transactions of the New York Academy of Sciences  
 New York, New York

## Northwest Mining Jour.

Northwest Mining Journal  
 Seattle, Washington

## Ohio Jour. Sci.

Ohio Journal of Science. Published jointly by the Ohio State University and  
 the Ohio Academy of Science  
 Columbus, Ohio

## Penn State Mining Quart.

Penn State Mining Quarterly. Pennsylvania State College  
 State College, Pennsylvania

## Petermanns Mitt.

Petermanns Mitteilungen. Geographischer Anstalt [Petermann's Communications  
 (Articles or Notices). Geographical Institution]  
 Gotha, Germany

## Petroleum

Petroleum  
 Berlin, Germany

## Phil. Soc. Washington Bull.

Philosophical Society of Washington, Bulletin  
 Washington, D. C.

## Pop. Sci. Monthly

Popular Science Monthly  
 New York, New York

## Royal Geog. Soc. Proc.

Proceedings of the Royal Geographical Society  
 London, England

## Russ.-kaiser. Mineral. Gesell. St. Petersburg, Verh.

Russisch - kaiserliche Mineralogische Gesellschaft zu St. Petersburg, Verhandlungen  
 [Imperial Russian Mineralogical Society of St. Petersburg, Proceedings]  
 St. Petersburg (now Leningrad), Russia

- School Mines Quart. (Columbia)  
 School of Mines Quarterly. Columbia University  
 New York, New York
- Science  
 Science. American Association for the Advancement of Science  
 Washington, D. C. (Formerly at Lancaster, Pennsylvania; Cambridge, Massachusetts;  
 New York, New York)
- Sci. American (Supp.)  
 Scientific American (Supplement). Scientific American, Incorporated  
 New York, New York
- Sci. Monthly  
 Scientific Monthly  
 New York, New York (Formerly at Toledo, Ohio, and other locations)
- Scottish Geog. Mag.  
 Scottish Geographical Magazine. Royal Scottish Geographical Society  
 Edinburgh, Scotland
- Seismol. Soc. America Bull.  
 Bulletin of the Seismological Society of America  
 San Francisco, California (Formerly at Stanford University, Stanford, California)
- Smithsonian Inst. Ann. Rept.  
 Annual Report of the Board of Regents of the Smithsonian Institution  
 Washington, D. C.
- Smithsonian Misc. Coll.  
 Smithsonian Miscellaneous Collections. Smithsonian Institution  
 Washington, D. C.
- Soc. Géol. France Bull.  
 Bulletin de la Société Géologique de France. [Bulletin of the Geological  
 Society of France]  
 Paris, France
- Tech. Review  
 Technology Review. Massachusetts Institute of Technology  
 Cambridge (Boston), Massachusetts
- Univ. California Dept. Geology Bull.  
 University of California Publications, Bulletin of the Department of Geology  
 Berkeley, California
- Univ. Washington Bur. Indus. Research Bull.  
 University of Washington Bureau of Industrial Research, Bulletin  
 Seattle, Washington
- U. S. Bur. Mines Bull.  
 United States Bureau of Mines Bulletin  
 Washington, D. C.

- U. S. Coast and Geodetic Survey Rept.  
United States Coast and Geodetic Survey Report  
Washington, D. C.
- U. S. Geol. Survey Ann. Rept.  
United States Geological Survey Annual Report  
Washington, D. C.
- U. S. Geol. Survey Bull.  
United States Geological Survey Bulletin  
Washington, D. C.
- U. S. Geol. Survey, Min. Res.  
United States Geological Survey, Mineral Resources  
Washington, D. C.
- U. S. Geol. Survey Prof. Paper  
United States Geological Survey Professional Paper  
Washington, D. C.
- U. S. Geol. Survey Water-Supply Paper  
United States Geological Survey Water-Supply Paper  
Washington, D. C.
- U. S. Natl. Museum Proc.  
United States National Museum, Proceedings  
Washington, D. C.
- Washington Acad. Sci. Jour.  
Journal of the Washington Academy of Sciences  
Washington, D. C.
- Yorkshire Geol. Polytech. Soc. Proc.  
Proceedings of the Yorkshire Geological and Polytechnic Society  
Leeds, England
- Zeitschr. Gletscherk.  
Zeitschrift für Gletscherkunde [Journal of Glaciology]  
Berlin, Germany
- Zeitschr. Kryst. (Mineralogie)  
Zeitschrift für Kristallographie (und Mineralogie). Krystallogometrie,  
Krystallophysik, Kristallchemie. Akademische Verlagsgesellschaft [Journal  
of Crystallography (and Mineralogy). Crystal geometry, crystal physics,  
crystal chemistry. Academic Publishing Company]  
Frankfurt Am Main, Germany (Formerly at Leipzig, Germany)
- Zeitschr. Prak. Geol.  
Zeitschrift für Praktische Geologie [Journal of Practical Geology]  
Berlin, Germany

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- Archibald Constable  
Archibald Constable and Company  
Westminster (London), England
- Colburn and Bentley  
H. Colburn and R. Bentley  
London, England
- D. C. Cook  
D. C. Cook Publishing Company  
Chicago, Illinois
- Doubleday, Page and Co.  
Doubleday, Page and Company  
New York, New York
- Harriman Alaska Expedition  
Harriman Alaska Expedition. Published in cooperation with the Washington  
Academy of Sciences. Doubleday, Page and Company  
New York, New York
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Zürich, Switzerland
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New York, New York
- Natl. Geog. Soc.  
National Geographic Society  
Washington, D. C.
- U. S. Cong. ... House Rep. (Exec.) Doc.  
United States Congress...House of Representatives (Executive) Document  
Washington, D. C.
- U. S. Cong. ... Senate (Exec.) Doc.  
United States Congress...Senate (Executive) Document  
Washington, D. C.
- U. S. Dept. Interior  
United States Department of the Interior  
Washington, D. C.

## MISCELLANEOUS ABBREVIATIONS

abs.	- abstract
Ann.	- Annual
App.	- Appendix
Comm.	- Committee or Commission
Diss.	- Dissertation
ed.	- editor
illus.	- illustrated or illustrations
Inaug.	- Inaugural(?)
Mt.	- Mount or Mountain
Natl.	- National
no.	- number
p.	- page(s)
pt.	- part
pub.	- publication
Rept.	- Report
sec. sc.	- second section(?)
ser.	- series
Sess.	- Session
St.	- Saint
xi, lxiv, lxv	- introductory pages 11, 64, 65
v.	- volume
2nd	- second



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## I N D E X

## AREAL GEOLOGY

## Arctic Alaska

## Alaska-Canada boundary

Porcupine River to Arctic Ocean: Maddren (1912a)

Porcupine River to Yukon River: Cairnes (1912c, 1914d)

Alatna-Noatak region: Smith (1912d)

Arctic Slope, reconnaissance: Leffingwell (1913)

Cape Lisburne region, coal fields: Collier (1905b, 1906)

Chand[a]llar and Koyukuk Rivers, reconnaissance: Schrader (1900b)

Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)

Koyukuk-Chandalar gold region: Maddren (1910b, 1913)

Koyukuk-Kobuk region: Smith (1911a)

Noatak-Kobuk region: Smith (1913e)

Noatak River region, physiography: Smith (1913f)

Northern Alaska, reconnaissance along major rivers and Arctic coast:  
Schrader (1904)

Porcupine River, Tertiary basin, reconnaissance: Kindle (1907a, 1908a)

Shungnak [Kobuk] region, Kobuk River valley: Smith and Eakin (1911b)

Squirrel River region, placers: Smith (1911b)

Yukon-Koyukuk region: Eakin (1916b)

## Interior Alaska

Alaska-Canada boundary, between Porcupine and Yukon Rivers: Cairnes (1912c, 1914d)

Bonnifield region: Capps (1912c)

Chand[a]llar and Koyukuk Rivers, reconnaissance: Schrader (1900b)

Chisana placer district: Brooks (1914b)

Chisana-White River district: Capps (1916b)

Circle quadrangle, reconnaissance: Prindle (1906a, 1913a)

Circle to Fort Hamlin, reconnaissance: Stone (1906b)

Cosna-Nowitna region: Eakin (1916a, 1918)

Fairbanks and Rampart quadrangles: Prindle (1908b)

Fairbanks district, detailed description: Prindle and Katz (1913)

Fairbanks quadrangle

Northeastern part, sketch: Prindle (1910b)

Reconnaissance: Prindle (1913b)

Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)

Fortymile, Birch Creek, and Fairbanks regions: Prindle (1905)

Fortymile quadrangle: Prindle (1909)

Fortymile region near Eagle City, reconnaissance: Brooks (1900b)

Glenn Creek district: Collier (1903c)

Innoko, Ruby, and Gold Hill districts, placers: Maddren (1910a)

Mount McKinley region, including Bonnifield and Kantishna districts:  
Prindle (1911)

Porcupine River, Tertiary basin, reconnaissance: Kindle (1907a)

Railroad routes, Fairbanks to Pacific seaboard: Brooks (1912b)

Rampart quadrangle, part, reconnaissance: Eakin (1913a)

Rampart region, placers: Prindle and Hess (1906)

Resurrection Bay to Tanana River, reconnaissance: Mendenhall (1899, 1900)

Tanana and White River basins, reconnaissance: Brooks (1899, 1900a, 1900c)

Tolovana district: Brooks (1916b); Mertie (1917d)

Yukon district or region: Collier (1903b); Hayes (1892, 1897); Spurr (1898)

## AREAL GEOLOGY - Continued

## Interior Alaska - Continued

- Yukon-Koyukuk region: Eakin (1916b)
- Yukon River, Dawson to Anvik: Hollick (1904)
- Yukon-Tanana region: Prindle (1905, 1906a, 1908b)

## South-central Alaska

- Bremner River district: Moffit (1912c, 1914a)
- Broad Pass region: Moffit (1914c); Moffit and Pogue (1915)
- Chisana placer district: Brooks (1914b)
- Chisana-White River district: Capps (1916b)
- Chitina River and Skolai Mountains, reconnaissance: Rohn (1900)
- Chitina valley, upper: Moffit (1918)
- Controller Bay region: Martin (1908)
- Copper River district or region
  - Central: Mendenhall (1905)
  - Part: Schrader and Spencer (1901)
  - Wrangell Mountains: Abercrombie (1904); Keller (1908)
- Cook Inlet coal fields: Kirsopp (1903)
- Ellamar district: Capps and Johnson (1915)
- Gravina Island: Smith (1915b)
- Gulkana and Susitna Rivers, headwaters regions: Moffit (1912a)
- Hanagita-Bremner region: Moffit (1914a)
- Iliamna region: Martin and Katz (1912a)
- Kenai Peninsula
  - General: Martin, Johnson and Grant (1915)
  - Seward-Sunrise region, gold deposits: Johnson (1912)
- Kotsina and Chitina valleys, Copper River region, mineral resources:
  - Moffit and Maddren (1908, 1909)
- Kotsina-Kuskulana district, mineral deposits: Moffit (1915)
- Lake Clark-central Kuskokwim region: Smith, P. S. (1917)
- Lake Clark-Iditarod region: Smith (1915a, 1916a, 1916b)
- Latouche and Knight Islands districts, Prince William Sound, copper deposits:
  - Johnson (1917a)
- Malaspina Glacier region: Martin (1909)
- Matanuska and Nelchina valleys, upper, mineral resources: Martin and Mertie (1914)
- Matanuaka and Talkeetna basins, reconnaissance: Paige and Knopf (1907a, 1907b)
- Matanuska coal field: Martin (1906a, 1911); Martin and Katz (1912b)
- Middleton Island: Dawson (1893)
- Mount McKinley region
  - First ascent: Cook (1908)
  - General geology: Brooks (1911d)
  - Including Bonnifield and Kantishna districts: Prindle (1911)
  - Reconnaissance: Brooks (1902a)
- Mount Saint Elias region, Quaternary: Maddren (1914b)
- Mount Wrangell district, mineral resources: Mendenhall and Schrader (1903b)
- Nabesna-White River district, mineral resources: Moffit and Knopf (1909, 1910)
- Nelchina-Susitna region: Chapin (1918a)
- Nizina district: Moffit and Capps (1911)
- Port Valdez district, gold and copper deposits: Johnson (1915b)
- Port Wells district, northwest of Prince William Sound, lode gold: Johnson (1914b)
- Prince William Sound region: Grant and Higgins (1910c); Stevens (1909)

## AREAL GEOLOGY - Continued

## South-central Alaska - Continued

- Prince William Sound and Copper River district, reconnaissance: Schrader (1900a)
- Railroad routes, Fairbanks to Pacific seaboard: Brooks (1912b)
- Resurrection Bay to Tanana River, reconnaissance: Mendenhall (1899, 1900)
- Susitna basin and vicinity, reconnaissance: Eldridge (1900)
- Susitna, upper, and Chistochina districts: Moffit (1911a)
- Tanana and White River basins: Brooks (1899)
- Taral and Bremner River districts: Moffit (1912c)
- Turnagain Arm region, gold fields: Moffit (1906a)
- Turnagain-Knik [Arms] region: Capps (1916c)
- Willow Creek district or region, north of Anchorage: Capps (1915f); Katz (1911)
- Wrangell Mountains: Mendenhall (1903d)
- Yentna district: Capps (1913)

## Southeastern Alaska

- Berners Bay region: Knopf (1911a)
- Eagle River region: Knopf (1911c, 1912a)
- General reconnaissance: Brooks (1902b)
- Glacier Bay area: Cushing (1896)
- Juneau gold belt: Spencer (1904, 1906)
- Juneau-Yakutat region: Martin (1913d)
- Malaspina Glacier region: Martin (1909)
- Mount Saint Elias region, Quaternary: Maddren (1914b)
- Muir Glacier vicinity: Cushing (1892)
- Pyramid Harbor, Porcupine district, reconnaissance: Brooks (1900a, 1900b)
- Sitka mining district: Knopf (1912b)
- White Pass region: Heydon (1898)
- Yakutat Bay region: Tarr (1906, 1907d, 1909); Tarr and Butler (1909)
- Yakutat to Alsek River, reconnaissance: Blackwelder (1907c)

## Southwestern Alaska

- Alaska Peninsula: Atwood (1911)
- Bering Sea region: Dawson (1894a)
- Herendeen Bay coal field: Paige (1906)
- Kodiak and neighboring islands, mineral deposits: Martin, G. C. (1913a)
- Reconnaissance in 1898: Spurr (1900a)
- Stepovak Bay, Chichagof Cove, Popof and Unga Islands: Palache (1904a)

## Western Alaska

- Anvik-Andreafski region: Harrington (1917, 1918b)
- Bering Sea region: Dawson (1894a)
- Cosna-Nowitna region: Eakin (1916a, 1918)
- Fort Hamlin to Kotzebue Sound: Mendenhall (1902)
- Iditarod-Ruby region: Eakin (1914d)
- Innoko, Ruby and Gold Hill districts, placers: Maddren (1910a)
- Koyukuk-Kobuk region: Smith (1911a)
- Kuskokwim River, lower, and Russian Mountains: Maddren (1915)
- Lake Clark-central Kuskokwim region: Smith, P. S. (1917)
- Lake Clark-Lake Iditarod region: Smith (1915a, 1916a, 1916b)
- Norton Bay region, reconnaissance: Mendenhall (1901)
- Nulato-Council region, mineral resources: Smith and Eakin (1910)
- Pribilof Islands: Stanley-Brown (1892)
- Reconnaissance in 1898: Spurr (1900a)
- Ruby-Kuskokwim region, mineral resources: Mertie and Harrington (1916)

## AREAL GEOLOGY - Continued

## Western Alaska - Continued

## Seward Peninsula

Cape Nome region or district, gold: Schrader (1900c); Schrader and Brooks (1900)

Geography and geology, sketch: Smith (1913a)

Iron Creek area: Smith (1907a, 1909b)

Nome and Grand Central quadrangles: Moffit (1913a)

Northwestern part, reconnaissance: Collier (1902)

Parts, gold placers, Nome, Council, Kougarok, Port Clarence, and Goodhope precincts: Collier, Hess, Smith and Brooks (1908)

Solomon and Casadepaga quadrangles: Smith (1910)

Southeastern and Norton Bay-Nulato region, reconnaissance: Smith and Eakin (1911a)

York region, tin deposits: Collier (1904c); Knopf (1908a)

Yukon-Koyukuk region: Eakin (1916b)

Yukon River region or district

Dawson to Anvik: Hollick (1904)

General: Collier (1903b); Hayes (1892, 1897); Spurr (1898)

## EARTHQUAKES

## General Alaska

Alaskan earthquakes, 1899: Martin (1910a)

Aleutian Islands, Alaska Peninsula, and North American coast: Perrey (1866)

Mass movements and depth of focus: Reid (1910)

Relation to glacier advance: Tarr (1910b)

## Southeastern Alaska

Yakutat Bay region, 1899: Tarr and Martin (1912b)

## ECONOMIC GEOLOGY

## Arctic Alaska

## Coal

Cape Lisburne region: Collier (1904a, 1905b, 1906)

Noatak-Kobuk region: Smith (1913e)

## Copper

Alatna-Noatak region: Smith (1912d)

Noatak-Kobuk region: Smith (1913e)

Shungnak region, Kobuk valley: Smith and Eakin (1911b)

## General

Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)

Northern Alaska, reconnaissance: Schrader (1904)

## Gold

Alatna-Noatak region: Smith (1912d)

Koyukuk-Chandalar region: Maddren (1910b, 1913)

Mining, condition in Arctic America: Penrose (1903)

Noatak-Kobuk region: Smith (1913e)

Prospecting, gold rush of 1898, Kobuk River and Nome: Grinnell (1901)

Shungnak region, Kobuk valley: Smith and Eakin (1911b)

Squirrel River placers: Smith (1911b)

Yukon-Koyukuk region: Eakin (1914a, 1916b)

## General Alaska

## Coal

And lignite: Dall (1896); Ritter (1906)

Fields: Martin (1907b)



## ECONOMIC GEOLOGY - Continued

## General Alaska - Continued

## Coal - Continued

Geography in relation to development: Brooks (1911a)

Outlook for mining: Brooks (1905d, 1911c)

Problems: Fisher (1911)

Regulations, leasing: United States Department of the Interior (1916)

Resources: Brooks (1902e, 1906d); Brooks and Martin (1913); Crane (1914a)

Utilization: Brooks (1910)

Exploration routes, 1898: Eldridge and others (1899)

Gravel and placer mining, methods and costs: Purington (1905)

Marble, northwestern North America: Rathbun (1906)

Metalliferous lodes, geologic features: Brooks (1911b)

## Mineral deposits

Antimony: Brooks (1916a)

## Copper

Mines of United States: Weed (1906)

Mines report: Martin (1918)

Resources: Brooks (1906d, 1908-13, 1914-17)

## Gold

Alaskan fields or occurrences: Dunn (1897); Kolderup (1901)

Distribution of deposits: Becker (1895)

Known gold-bearing rocks: Emmons (1898b)

Mines report: Martin (1918)

Mining, condition in Arctic America: Penrose (1903)

Placer mining: Brooks (1903a, 1904, 1905a, 1915a)

Prospecting and mining: Hutchins (1908)

Resources: Brooks (1906d, 1906-7, 1908-13, 1914-17)

Southern fields, reconnaissance: Becker (1898)

Vein mining: Purington (1906)

Yukon Territory and Alaska: Rickard (1909)

Iron, ore resources, northwestern North America: Whittier (1917)

## Lead

General: Brooks (1908-13)

Mines report: Martin (1918)

## Silver

Mines report: Martin (1918)

Resources: Brooks (1906d, 1906-7, 1908-13, 1914-17)

## Tin

Ledges: Bell (1903)

Resources: Hess (1912)

Stream deposits: Brooks (1903b)

Zinc: Brooks (1908-13)

Mineral resources or wealth: Brooks (1905c, 1906d, 1908b, 1909a, 1909b, 1909c);  
Brooks and others (1905, 1906, 1907, 1908, 1909, 1910, 1911,  
1912, 1913, 1914, 1915, 1916, 1918); Emmons (1898a); Smith, S. S.  
(1917)

Mining industry: Brooks (1906e); Smith, S. S. (1917)

Mining methods, placer: Brooks (1913)

Miscellaneous: Blake, T. A. (1969a)

Ore deposits: Emmons (1913); Henning (1911)

Peat, possible uses: Davis (1909, 1910)

## Petroleum and natural gas

General: Brooks (1916b); von Hofer (1910)

Pacific coast region: Martin (1904a, 1904b, 1905c, 1905e)

Vein mining, gold: Purington (1906)

## ECONOMIC GEOLOGY - Continued

## Interior Alaska

## Coal

Bonnifield and Kantishna regions: Prindle (1907)  
 Bonnifield region: Capps (1911, 1912c)  
 Circle district or precinct: Brooks (1907b)  
 Circle quadrangle: Prindle (1913a)  
 Yukon River region: Collier (1903a, 1903b); Spurr (1898)  
 Yukon-Tanana region: Prindle (1906b)

## General

Fairbanks district, detailed description: Prindle and Katz (1913)  
 Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)  
 Nenana region, lode deposits: Overbeck (1917)  
 Resurrection Bay to Tanana River, reconnaissance: Mendenhall (1900)  
 Yukon-Tanana region: Prindle (1906a)

## Mineral deposits

## Copper

Chisana district: Brooks (1914b)  
 Upper White and Tanana Rivers, near Nabesna: Brooks (1900a)

## Gold

Bonnifield and Kantishna regions: Prindle (1907)  
 Bonnifield region: Capps (1911, 1912c)  
 Chisana district: Brooks (1914b); Cairnes (1913b, 1914a)  
 Chisana-White River district: Capps (1915d, 1916b)  
 Circle district or precinct: Brooks (1907b); Ellsworth (1912)  
 Circle quadrangle: Prindle (1913a)  
 Fairbanks area, district or region  
   Auriferous quartz veins: Prindle (1910a)  
   Detailed description: Prindle and Katz (1913)  
   Fineness of gold: Knopf (1913); Smith (1913d)  
   General: Lincoln (1910); Prindle (1913b)  
   Lode mining: Chapin (1914b); Mertie (1917b); Smith (1913b, 1913c)  
   Mining: Eakin (1915b); Ellsworth (1912)  
   Placers: Prindle (1904); Prindle and Katz (1909)  
 Fairbanks and Rampart quadrangles: Prindle (1908b)  
 Fortymile, Birch Creek and Fairbanks regions: Prindle (1905)  
 Fortymile district or region: Brooks (1900a); Prindle (1908c)  
 Fortymile quadrangle: Prindle (1909)  
 Glenn Creek district: Collier (1903c)  
 Gold Hill district, placers: Maddren (1909c, 1910a)  
 Hot Springs district, mining: Eakin (1915c)  
 Klondike region: Everette (1907)  
 Nenana region, placers: Maddren (1917)  
 Rampart and Hot Springs regions: Eakin (1912)  
 Rampart region: Hess (1908); Prindle and Hess (1905, 1906)  
 Tolovana district: Brooks (1916b)  
 Yukon-Koyukuk region: Eakin (1914a, 1916b)  
 Yukon-Tanana region: Chapin (1914c); Ellsworth (1910); Ellsworth and Parker (1911); Prindle (1905, 1906b, 1908a, 1908b)  
 Yukon River region  
   General: Spurr (1898)  
   Resources: Spurr (1896)  
   Upper, Woodchopper to Fourth of July Creek, placers: Prindle and Mertie (1912)

## ECONOMIC GEOLOGY - Continued

## Interior Alaska - Continued

## Mineral deposits - Continued

## Tin

Birch Creek district: Johnson (1910)

Mining: Eakin (1915f)

Resources: Hess (1912)

## Tungsten

Birch Creek district: Johnson (1910)

Fairbanks area: Bateman (1918)

## South-central Alaska

## Coal

Bering River field: Crane (1913b, 1913c, 1913d, 1913f); Fisher and Calvert (1914); Kay (1911a, 1911b); Martin (1904a, 1905a, 1905e, 1906d); Storm (1910b)

Bonnifield and Kantishna districts or regions: Brooks (1911d); Prindle (1907)

Controller Bay field: Evans (1910); Martin (1908)

Cook Inlet: Kirsopp (1903)

Cook Inlet and Kachemak Bay region, lignite: Crane (1914b, 1915b)

Kachemak Bay field or region

General: Stone (1906a)

Lignite: Parks (1915)

Kantishna region: Capps (1917)

Kayak field: Stoess (1903)

Matanuska basin: Paige and Knopf (1907a, 1907b)

Matanuska field

Detailed survey, preliminary report: Martin (1911)

General: Crane (1913a, 1913e); Griffith (1906); Martin (1906c); Martin and Katz (1912b)

Reconnaissance: Martin (1906a, 1906c)

Matanuska and Nelchina valleys, upper: Martin and Mertie (1914)

Nabesna-White River district: Moffit and Knopf (1910)

## General

Broad Pass region: Moffit and Pogue (1915)

Chitina valley, upper: Moffit (1918)

Iliamna and Clark Lakes region: Martin and Katz (1910, 1912a)

Kenai Peninsula, geology and mineral deposits: Martin, Johnson and Grant (1915)

Matanuska and Nelchina valleys, upper, mineral resources: Martin and Mertie (1914)

Matanuska valley, lower, coal fields: Martin and Katz (1912b)

Mount Saint Elias region: de Filippi (1900); Novarese (1900)

Nenana region, lode deposits: Overbeck (1917)

Prince William Sound region: Johnson (1915a)

## Mineral deposits

Antimony, Kantishna region: Capps (1917)

## Copper

Chisana district: Brooks (1914b)

Chitina district or region: Jacobs (1910); Mendenhall (1903b); Moffit (1910, 1912b, 1913b, 1915); Storm (1910a)

## ECONOMIC GEOLOGY - Continued

## South-central Alaska - Continued

## Mineral deposits - Continued

## Copper - Continued

## Copper River district or region

And Prince William Sound: Schrader (1900a)General: Brewer (1908a, 1908b); Keller (1908); Mendenhall (1905);Moffit (1917)Kotsina and Chitina valleys: Moffit and Maddren (1908, 1909)Part: Schrader and Spencer (1901)Ellamar district: Capps and Johnson (1913, 1915)Hanagita-Bremner region: Moffit (1914a)Iliamna region: Martin and Katz (1910, 1912a)

## Kenai Peninsula

Seward area: Grant and Higgins (1909b)Southern part: Grant and Higgins (1910b)Kennecott Bonanza mine: Storm (1910c)Kotsina-Chitina, Chistochina and Valdez Creeks regions: Moffit (1909)Kotsina-Kuskulana district: Mertie (1915); Moffit (1915)Lake Clark region: Martin and Katz (1910)Latouche and Knight Islands districts, Prince William Sound: Johnson (1917a)

## Latouche Island, Big Bonanza mine or deposits

Calcocite, types, etch patterns: Tolman (1916)General: Lincoln (1909); Stevens (1903)Relation of pyrrhotite to chalcopyrite and other sulfides: Thompson (1913)Matanuska and Nelchina valleys, upper: Martin and Mertie (1914)Matanuska and Talkeetna basins: Paige and Knopf (1907a, 1907b)Mount Wrangell district: Mendenhall and Schrader (1903a, 1903b)Nabesna-White River district: Moffit and Knopf (1909, 1910)Nizina district: Moffit and Capps (1911)Port Valdez district: Johnson (1915b)

## Prince William Sound region

General: Grant (1906, 1910a, 1910b); Grant and Higgins (1909a,1910c); McCormick (1909); Stevens (1909)Mining: Johnson (1915a, 1916a, 1917b)Prospects: Moffit (1908)Taral district: Moffit (1912c)White River properties: Lewington (1909)White River region, copper-bearing amygdaloids: Knopf (1910b)Wrangell Mountains: Abercrombie (1904)

## Gold

Bonfield and Kantishna regions: Prindle (1907)Bremner River district: Moffit (1912c)Cape Yaktag or Yakataga: Martin (1905d)Chisana district: Brooks (1914b); Cairnes (1913b, 1914a); Ellis (1915)Chisana-White River district: Capps (1915d, 1916b)Chistochina district: Mendenhall (1903c); Moffit (1912a)Chitina district: Moffit (1910, 1912b, 1913b)

## Copper River region

Central: Mendenhall (1905)Kotsina and Chitina valleys: Moffit and Maddren (1908, 1909)Lower, Tiekel district: Moffit (1917)

## ECONOMIC GEOLOGY - Continued

## South-central Alaska - Continued

## Mineral deposits - Continued

## Gold - Continued

Ellamar district: Capps and Johnson (1913, 1915)

Hanagita-Bremner region: Moffit (1914a)

Iliamna region: Martin and Katz (1910, 1912a)

## Kenai Peninsula

Seward area: Grant and Higgins (1909b)

Seward-Sunrise region: Johnson (1912)

Southern part: Grant and Higgins (1910b)

Kotsina-Kuskulana district: Mertie (1915); Moffit (1915)

Lake Clark region: Martin and Katz (1910)

Lake Clark-Iditarod region: Smith (1915a)

Matanuska and Talkeetna basins: Paige and Knopf (1907a, 1907b)

Matanuska area: Martin (1906a)

## McKinley Lake district

Distribution of deposits: Becker (1895)

General: Chapin (1913)

Mount McKinley region: Brooks (1911d)

Mount Wrangell district: Mendenhall and Schrader (1903b)

Nabesna-White River district: Moffit and Knopf (1909, 1910)

Nelchina-Susitna region, auriferous gravels: Chapin (1915, 1918a)

Nizina district: Moffit and Capps (1911); Moffit and Maddren (1909)

Port Valdez district: Johnson (1915b)

Port Wells district, northwest of Prince William Sound, lode gold:

Johnson (1914b)

Prince William Sound: Grant (1906, 1909, 1910b); Grant and Higgins (1910c); Johnson (1915a, 1917b)

Sushana (Chisana) district: Ellis (1915)

Southern Alaskan fields, reconnaissance: Becker (1898)

Susitna, upper, and Chistochina districts: Moffit (1911a)

Tolovana district, placers: Mertie (1917d)

Turnagain Arm fields: Moffit (1905b, 1906a)

Turnagain-Knik [Arms] region: Capps (1916c)

Valdez Creek district: Brooks (1912a); Moffit (1911b, 1912a, 1914b);

Storm (1912)

Willow Creek district or region, north of Anchorage: Capps (1914a,

1915f, 1916a); Katz (1911); Smith, S. S. (1913)

Yakataga district, beach placers: Thompson (1915)

Yentna district: Capps (1912b, 1913)

## Iron

Kenai Peninsula, southern part: Grant and Higgins (1910b)

Matanuska area: Martin (1906a)

Silver, Iliamna region: Martin and Katz (1912a)

## Mineral resources or deposits, general

Chitina valley, upper: Moffit (1916)

Kenai Peninsula: Brewer (1912); Martin, Johnson and Grant (1915)

Nabesna-White River district: Moffit and Knopf (1909, 1910)

Nizina district: Moffit and Capps (1911)

Prince William Sound, mining: Johnson (1914a, 1917b)

Resurrection Bay to Tanana River, reconnaissance: Mendenhall (1900)

Yakataga district: Maddren (1914a)

## ECONOMIC GEOLOGY - Continued

## South-central Alaska - Continued

## Petroleum and natural gas

Controller Bay: Martin (1907a, 1908)

Iliamna region: Martin and Katz (1912a)

Katalla field: Prosser (1911); Thompson (1912)

Kayak field: Stoess (1903)

Pacific coast region: Martin (1904a, 1904b, 1905c, 1905e)

## Southeastern Alaska

## Coal

Admiralty Island, reconnaissance: Wright (1906a)

Fairhaven precinct: Henshaw (1909)

Yakutat Bay region: Tarr (1906); Tarr and Butler (1909)

## General

Economic developments: Wright and Wright (1905)

Mining: Knopf (1910a); Wright and Wright (1906)

Mount Saint Elias area: de Filippi (1900); Novarese (1900)

Prince of Wales Island, an ore formation: Thomae (1902)

Vein-filled openings, origin: Spencer (1905c)

Vein-forming waters, magmatic origin: Spencer (1905b)

## Mineral deposits

## Copper

Fairhaven precinct: Henshaw (1909)

Ketchikan and Wrangell districts: Wright and Wright (1908)

Ketchikan district or region, lode mining: Smith (1914)

Mining: Chapin (1916); Knopf (1911b); Wright (1907a, 1908a, 1909)

Prince of Wales Island

An ore formation: Thomae (1902)

General: Scott (1909b)

Kasaan Peninsula: Wright (1908c, 1915); Wright and Paige (1908)

## Gold

Admiralty Island, reconnaissance: Wright (1906a)

Berners Bay region: Knopf (1911a)

Distribution of deposits: Becker (1895)

Douglas Island, Treadwell mine: Adams (1889); Bain (1911); Dawson (1889); Hershey (1911); Kinzie (1904); Lincoln (1910); Palache (1904c); Spencer (1905a, 1905d)

Eagle River region: Knopf (1911c, 1912a)

Fairhaven precinct: Henshaw (1909)

Haines district: Scott (1909a)

Juneau district: Eakin (1915d, 1917b); Hyder (1915); Spencer (1904, 1906)

Ketchikan and Wrangell districts: Wright and Wright (1908)

Ketchikan district or region: Smith (1914)

Mining: Chapin (1916); Furman (1901); Knopf (1911b); Wright (1907a, 1908a, 1909)

Porcupine district, Klehini River, tributary to Chilkat River, near Lynn Canal: Brooks (1900a); Eakin (1917a); Wright (1904a, 1904b)

Prince of Wales Island, an ore formation: Thomae (1902)

Sitka district: Knopf (1912b)

Southern Alaska, reconnaissance: Becker (1898)

Yakutat Bay region

Auriferous sands: Stanley-Brown (1891)

General: Tarr and Butler (1909)

## ECONOMIC GEOLOGY - Continued

## Southeastern Alaska - Continued

## Mineral deposits - Continued

Iron, Haines area: Knopf (1910c)

## Silver

Lode mining: Wright (1907a)Sitka district: Knopf (1912b)Mineral resources, general: Brewer (1903); Garside (1893)

## Mining districts, general

Ketchikan: Brooks (1902d); Chapin (1917); Courtis (1900); Smith (1914)Wrangell: Chapin (1917)

## Nonmetallic products

Barite, Wrangell area: Burchard (1914a)Granite, gypsum, marble, limestone: Wright (1906b, 1907b, 1908b)Gypsum: Knopf (1912b)

## Marble, resources

Ketchikan and Wrangell district: Burchard (1913)Juneau, Skagway and Sitka districts: Burchard (1914b)Petroleum and natural gas, Yakutat Bay region: Tarr (1906)

## Southwestern Alaska

## Coal

Chignik Bay fields: Crane (1915a)General: Atwood (1909b, 1911); Stone (1905)Herendeen Bay field: Paige (1906)Kodiak and neighboring islands: Martin, G. C. (1913a)Reconnaissance in 1898: Spurr (1900a)General: Atwood (1911)

## Mineral deposits

Copper: Atwood (1911)General, Kodiak and neighboring islands: Atwood (1911); Martin, G. C. (1913a)

## Gold

Distribution of deposits: Becker (1895)General: Atwood (1909b, 1911)Kodiak and neighboring islands: Martin, G. C. (1913a)Reconnaissance, general, 1898: Spurr (1900a)Shumagin Islands: Martin (1905b)Southern Alaska: Becker (1898)Unalaska Island, auriferous quartz veins: Collier (1905a)Unga Island: Lincoln (1910)Nonmetallic products, sulfur, Makushin deposits, Unalaska Island: Lawton (1909)Petroleum and natural gas, Cold Bay field: Martin (1905e)

## Western Alaska

## Coal

Reconnaissance in 1898: Spurr (1900a)Yukon River region: Collier (1903a, 1903b)

## General

Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)Norton Bay-Nulato region, copper, gold, lead, silver: Smith and Eakin (1911a)

## Seward Peninsula

Cape Nome district or region: Murray (1899)Lode mining and prospecting: Mertie (1917a)

## ECONOMIC GEOLOGY - Continued

## Western Alaska - Continued

## General - Continued

## Seward Peninsula - Continued

Lost River and Brooks Mountain region: Knopf (1908b)

Northwestern part, reconnaissance: Collier (1902)

Southeastern part, copper, gold, lead, silver: Smith and Eakin (1911a)

## Mineral deposits

## Copper

Russian Mountains: Maddren (1915)

Seward Peninsula: Smith (1908a)

## Gold

Anvik-Andreafski region: Harrington (1917, 1918b)

Gold Hill district, placers: Maddren (1909c, 1910a)

Iditarod-Ruby region: Eakin (1914d)

Innoko district, placers: Maddren (1909a, 1910a)

Innoko-Iditarod region, placers: Eakin (1913b); Maddren (1911)

Kuskokwim River, lower, placers: Maddren (1915)

Mulchatna River, placers: Katz (1910)

Nulato-Council region: Smith and Eakin (1910, 1911a)

Reconnaissance in 1898: Spurr (1900a)

Ruby-Kuskokwim region: Mertie and Harrington (1916)

Ruby or Ruby Creek district, placers: Eakin (1913c, 1914b); Maddren (1909b, 1910a, 1912b)

## Seward Peninsula

## Cape Nome district or region

General: Bogdanovich (1901); Brooks (1901d); Schrader (1900c)  
Schrader and Brooks (1900, 1901); Weber (1900); Wilson  
(1906); Yale (1900)

Gold sands: Quenceau (1902)

Cape Nome to Norton Bay, reconnaissance: Brooks (1901b); Brooks,  
Richardson, Collier and Mendenhall (1901)

Fairhaven placers: Moffit (1905a)

Geography and geology, sketch: Smith (1913a)

Iron Creek area or region: Smith (1907a, 1909b)

Kotzebue placer field: Moffit (1904)

Lode developments, gold, tin: Chapin (1914a)

Kougarok region: Brooks (1907c)

Mineral deposit investigations: Smith (1908a)

Mining: Chapin (1914d); Eakin (1915e, 1915f); Henshaw (1910);  
Mertie (1917c); Moffit (1906b); Smith (1912c)

Nome and Grand Central quadrangles: Moffit (1913a)

## Nome area or region

Beach placers: Halla (1907); Hutchins (1907)

General: Lincoln (1910); Moffit (1907)

Outlook for vein mining: Rickard (1901)

Prospecting, gold rush of 1898: Grinnell (1901)

Nome, Council, Kougarok, Port Clarence and Goodhope precincts:

Brooks and Collier (1908); Collier, Hess, Smith and Brooks  
(1908)

Solomon and Casadepaga quadrangles: Smith (1910)

Solomon and Niukluk River basins: Smith (1907b)

Southeastern part: Smith and Eakin (1911a)

Southern part, developments: Smith (1909a)

Yukon-Koyukuk region: Eakin (1914a, 1916b)

Yukon River region, resources: Spurr (1896)



## ECONOMIC GEOLOGY - Continued

## Western Alaska - Continued

## Mineral deposits - Continued

- Iron, Nome district: Eakin (1915a)
- Lead, Nulato-Council region: Smith and Eakin (1910)
- Mercury, Kuskokwim region: Smith and Maddren (1915)
- Silver, Seward Peninsula
  - Nulato-Council region: Smith and Eakin (1911a)
  - Solomon and Casadepaga quadrangles: Smith (1910)
  - Solomon and Niukluk River: Smith (1907b)
- Tin, Seward Peninsula, York region
  - Cape Prince of Wales, geology and mining: Fay (1907)
  - General, and mining developments: Brooks (1901a, 1901c); Chapin (1914a); Collier (1903d, 1904b, 1904c, 1905c); Eakin (1915f); Hess (1906); Knopf (1808a, 1908c, 1909); Rickard (1903); Smith (1912c)
  - Resources: Hess (1912)
- Nonmetallic products, Seward Peninsula
  - Graphite: Smith (1908a)
  - Mica: Smith (1908a)
  - Wolframite-topaz ore, Lost River: Knopf (1908d)

## ENGINEERING GEOLOGY

## South-central Alaska

- Water-power reconnaissance: Ellsworth and Davenport (1914)

## Southeastern Alaska

- Water-power reconnaissance: Hoyt (1910)

## GENERAL SUBJECTS

## Arctic Alaska

- Cruise of steamer *Thomas Corwin*, 1881: Hooper (1884)
- Ground-ice wedges, north coast: Leffingwell (1915)
- Ice cliffs, Kowak [Kobuk] River: Russell (1890a)
- Prospecting, gold rush of 1898, Kobuk River and Nome: Grinnell (1901)
- Underground ice: Stefánsson (1910)

## General Alaska

- Altiplanation in sub-Arctic regions: Eakin (1914c)
- Bibliography, literature about Alaska: Dall and Baker (1879)
- Catalogue of samples and geologic observations: Jannettaz (1875)
- Exploration
  - Coastal: Badé (1917); Beechey (1831); Pinart (1875)
  - Early: Dall (1868a, 1868b)
  - General: Russell (1891b)
  - Routes in 1898: Eldridge and others (1899)
- Extracts from a report on Alaska: Dall (1881)
- Geographic names: Baker (1900, 1901, 1906); Orth (1967)
- Geologic survey of Alaska, progress: Brooks (1906b)
- Geology and geography
  - General: Rühl (1907)
  - Summary, including publications list (p. 298-308), and history of explorations and surveys (p. 104-132): Brooks (1906c)
- Lateral erosion by streams: Eakin (1910)
- Mining methods, placer: Brooks (1913)
- Mountain exploration or climbing: Brooks (1914a)
- National Geographic Society, expedition of 1909: Tarr and Martin (1910b)

## GENERAL SUBJECTS - Continued

## General Alaska - Continued

Northwest America, coast, topography and geology: Blake, T. A. (1868, 1869a, 1869b)

Northwestern America and northeastern Asia, criticism: Brooks (1902c)

Observations on Alaska: Dall (1869b, 1869c)

## Ore deposits

General: Emmons (1913); Henning (1911)

Types, Treadwell Mine: Bain (1911)

Phototopographical surveying, Baird Glacier: Klotz (1895)

## Prospecting

Gold rush of 1898, Kobuk River and Nome: Grinnell (1901)

Orebodies in glaciated regions: Wright (1911)

Publications on Alaska and Yukon Territory: Brooks (1906a)

Reconnaissance geology: Buckland (1839)

Russian America and Stickeen [Stickine] River area, geography and geology: Blake, W. P. (1868)

Summary of geographical and geological conditions: Rühl (1907)

Topography and geology of coast and islands: Grewingk (1850a)

## Interior Alaska

Central Alaska, Quaternary problems: Eakin (1913d)

Yukon district, expedition: Hayes (1892)

Yukon River, Dawson to Anvik, canoe trip: Hollick (1904)

## South-central Alaska

Kenai Peninsula, glacial stream, control: Tarr and Martin (1913a)

Mount McKinley, first ascent, 1903-1906: Cook (1908)

## Mount Saint Elias

Ascent by Prince Luigi diSavioa: de Filippi (1900)

Expeditions: Russell (1891c, 1893b)

Mount Saint Elias, Mount Fairweather, and others: Dall (1878b)

Southern Alaska, rocks and minerals: Novarese (1900)

Water-power reconnaissance: Ellsworth and Davenport (1914)

## Southeastern Alaska

## Mount Saint Elias

Ascent by Prince Luigi diSavioa: de Filippi (1900)

Expeditions: Russell (1891c, 1893b)

Mount Saint Elias, Mount Fairweather, and others: Dall (1878b)

Phototopographical surveying, Baird Glacier: Klotz (1895)

Russian America and Stickeen [Stikine] River area, geography and geology: Blake, W. P. (1868)

Southern Alaska, rocks and minerals: Novarese (1900)

## Southwestern Alaska

Aleutian Islands, recent investigations: Dall (1878a)

## Geologic studies

General: Atwood (1908a)

Balboa-Herenden Bays area, Alaska Peninsula: Atwood (1909a)

## Western Alaska

Central Alaska, Quaternary problems: Eakin (1913d)

Cruise of steamer *Thomas Corwin*, 1881: Hooper (1884)

Kotzebue Sound region: Dall (1873)

Prospecting, gold rush of 1898, Kobuk River and Nome: Grinnell (1901)

Yukon River, Dawson to Anvik, canoe trip: Hollick (1904)

## GEOMORPHOLOGY [OR PHYSIOGRAPHY]

## Arctic Alaska

- Arctic Slope, reconnaissance: Leffingwell (1913)
- Flaxman Island, glacial remnant: Leffingwell (1908)
- Kowak [Kobuk] River, ice cliffs: Russell (1890a)
- Noatak River region, physiography: Smith (1913f)
- Point Hope spit: Kindle (1909a)
- Yukon and Porcupine Rivers, gravel bars, striations: Barnett (1908)
- Yukon-Koyukuk region: Eakin (1916b)

## General Alaska

- Alaska and Yukon Territory, differential erosion and equiplanation: Cairnes (1912b)
- Altiplanation in sub-Arctic regions: Eakin (1914c)
- Changes of level: Meehan (1883)
- Exploration routes, 1898: Eldridge and others (1899)
- Geography and outline of geomorphology: Brooks (1905b)
- Glacial deposits, continental type: Tarr and Martin (1912a)
- Glacial stages, two: Capps (1915g)
- Glaciation in or of Alaska: Dall (1884b); Gilbert (1904b)
- Mountains: Brooks (1914a)
- Northwest America, coast, topography and geology: Blake, T. A. (1868, 1869a, 1869b)
- Northwestern America and northeastern Asia, criticism: Brooks (1902c)
- Physical geography: Russell (1894)
- Physiographic features, monarchs of Alaska: Sargent (1909)
- Physiographic provinces: Brooks (1916c)
- Physiography, general, working hypothesis: Atwood (1908b)
- Recent warpings, shown by drainage peculiarities: Goodrich (1898)
- Rock glaciers: Capps (1910c)
- Surface geology of Alaska: Russell (1890b)
- Topography and geology of coast and islands: Grewingk (1850a)

## Interior Alaska

- Central Alaska, Quaternary history: Eakin (1917c)
- Central Kuskokwim valley, Innoko, Ruby, and Gold Hill districts: Maddren (1910a)
- Cosna-Nowitna region: Eakin (1918)
- Nabesna-White River district, Quaternary deposits and glaciation: Capps (1910b)
- Resurrection Bay to Tanana River, reconnaissance: Mendenhall (1899, 1900)
- Wrangell Mountains, north side: Capps (1910a)
- Yukon and Porcupine Rivers, gravel bars, striations: Barnett (1908)
- Yukon-Koyukuk region: Eakin (1916b)
- Yukon River region: Spurr (1898)
- Yukon valley: Hyatt (1868)

## South-central Alaska

- Broad Pass region: Moffit and Pogue (1915)
- Chitina River and Skolai Mountains, reconnaissance: Rohn (1900)
- Copper River basin, physiography: Spencer (1901); Tarr and Martin (1913b)
- Copper River district or region
  - Canyon and delta: Martin, Lawrence (1913b)
  - Central: Mendenhall (1905)
  - Part: Schrader and Spencer (1901)
  - Reconnaissance: Schrader (1899)
- Iliamna and Clark Lakes region: Martin and Katz (1910)

## GEOMORPHOLOGY [OR PHYSIOGRAPHY] - Continued

## South-central Alaska - Continued

## Kenai Peninsula

Glacial stream, control: Tarr and Martin (1913a)

Southern part: Grant and Higgins (1910b)

Lake Clark-central Kuskokwim region: Smith, P. S. (1917)

Malaspina Glacier region: Martin (1909)

Mount McKinley region, reconnaissance: Brooks (1902a, 1911d)

Mount Saint Elias, Mount Fairweather, and others: Dall (1878b)

## Mount Saint Elias region

General: Russell (1891a, 1891c, 1892b, 1893b)

Quaternary: Maddren (1914b)

## Nabesna-White River district

General: Moffit and Knopf (1910)

Quaternary deposits and glaciation: Capps (1910b)

Nelchina-Susitna region: Chapin (1918a)

## Prince William Sound region

College Fiord, glaciers and glaciation: Martin (1913e)

General: Grant and Higgins (1910c)

Resurrection Bay to Tanana River, reconnaissance: Mendenhall (1899, 1900)

Shushana (Chisana) district: Ellis (1915)

Valdez delta: Johnson (1918b)

## Wrangell Mountains

General: Mendenhall (1903d)

North side: Capps (1910a)

## Southeastern Alaska

Fjords: Williams (1915)

## Glacier Bay

General: Reid (1893, 1896)

Submarine topography: Martin (1914)

Juneau-Yakutat region: Martin (1913d)

Malaspina Glacier region: Martin (1909)

## Mount Saint Elias region

General: Russell (1891a, 1891c, 1892b, 1893b)

Quaternary: Maddren (1914b)

Mount Saint Elias, Mount Fairweather, and others: Dall (1878b)

Muir Glacier region: Wright (1887)

Pacific Mountain system: Spencer (1903)

Prince Rupert to Skagway: Wright, F. E. (1913)

## Yakutat Bay region

Fossil glacier: Dall (1880)

Glacier margins, phenomena: Tarr (1908)

Physiography and glacial geology: Tarr (1909)

## Yakutat Bay to Alsek River

Coastal plain, combined terrestrial and marine formation: Blackwelder (1909)

Glacial features: Blackwelder (1907a)

## Southwestern Alaska

Alaska Peninsula: Atwood (1911)

Bogoslof Islands: Jordan and Clark (1906)

## Western Alaska

## Seward Peninsula

Cape Nome and Norton Bay regions: Brooks (1901b)

Glacial phenomena: Brooks and Collier (1901)

Solomon and Casadepaga quadrangles: Smith (1910)

## GEOMORPHOLOGY [OR PHYSIOGRAPHY] - Continued

## Western Alaska - Continued

- Bering Strait or Siberian-Alaskan land bridge, Tertiary: Knopf (1910d)
- Central Alaska, Quaternary history: Eakin (1917c)
- Central Kuskokwim valley, Innoko, Ruby, and Gold Hill districts: Maddren (1910a)
- Cosna-Nowitna region: Eakin (1918)
- Lake Clark-central Kuskokwim region: Smith, P. S. (1917)
- Nulato-Council region: Smith and Eakin (1910)
- Pribilof Islands: Stanley-Brown (1892)
- Yukon-Koyukuk region: Eakin (1916b)
- Yukon River district or region: Spurr (1898)
- Yukon valley: Hyatt (1868)

## GLACIAL GEOLOGY AND GLACIOLOGY

## Arctic Alaska

- Flaxman Island, glacial remnant: Leffingwell (1908)
- Kobuk region, ancient glacier: Hershey (1909)
- Northwestern Alaska, glaciation: Smith (1912b)

## General Alaska

- Age of last major glaciation: Capps (1915b)
- Coastal Alaska, glacial investigations: Martin, Lawrence (1912)
- Glacial erosion: Tarr (1907a)
- Glacial stages, two: Capps (1915g)
- Glaciation in or of Alaska: Capps (1915b); Dall (1884b); Gilbert (1904b); Muir (1884, 1917); Russell (1890b); Tarr (1912, 1913); Wolff (1915)
- Glacier flow, influence of débris: Russell (1895)

## Glaciers

- Alaskan, relation to life: Martin, Lawrence (1913a)
- Existing, United States: Russell (1885)
- Mount Saint Elias region: Russell (1892b)
- National Geographic Society research: Martin (1911a)
- North America: Russell (1897a, 1898)
- Notes: Meehan (1884); Tarr (1912, 1913)
- Oscillations: Tarr and Martin (1910a)
- Pacific coast: Muir (1902)
- Relation to international boundaries: Martin (1913c)
- Russian America: Blake (1867b)
- Russian charts and old reports: Davidson (1904)
- Studies in 1909: Martin (1910c)
- Variations or mass movements: Reid (1910)
- Rock glaciers: Capps (1910c)

## Interior Alaska

## Glaciation

- Nabesna-White River district: Capps (1910b)
- Wrangell Mountains, north side: Capps (1910a)
- Yukon valley, lack of evidence: Hyatt (1868); Shaler (1868)

## South-central Alaska

## Copper River basin or region

- Childs Glacier: Martin (1911b)
- Glacial deposits, continental type: Tarr and Martin (1912a, 1913b)
- Lower, National Geographic Society studies: Tarr and Martin (1914)
- Glacial deposits, Quaternary, Hanagita-Bremner region: Chapin (1914e)

## GLACIAL GEOLOGY AND GLACIOLOGY - Continued

## South-central Alaska - Continued

## Glaciation, glacier action, or glacier movement

Alaska Range: Capps (1912a)

## Copper River area or region

Childs Glacier: Martin (1911b)General: Allen (1886)Mount Saint Elias area or region: Belcher (1862)Nabesna-White River district: Capps (1910b)Prince William Sound, Columbia Glacier: Martin (1911b)Wrangell Mountains, north side: Capps (1910a)

## Glaciers and glaciation

Alaska Peninsula, Kenai Peninsula, and Prince William Sound: Grant and Higgins (1910a)Allen Glacier: Martin (1913f)Baird Glacier, phototopographical surveying: Klotz (1895)Barry Glacier, Port Wells, Prince William Sound region, retreat, 1910-1914: Johnson (1916b)Childs Glacier, Copper River region: Martin (1911b)College Fiord, Prince William Sound: Martin (1913e)Columbia Glacier, Prince William Sound: Martin (1911b)General: Topham (1889)Kenai Peninsula and Prince William Sound region, coastal: Grant and Higgins (1913)Malaspina Glacier: Martin (1909); Russell (1893a, 1893b)Mount Saint Elias region: Topham (1889); Russell (1893b)Notes: Klotz (1899)Recession: Klotz (1907)Kenai Peninsula, glacial stream control: Tarr and Martin (1913a)Malaspina Glacier region: Martin, Lawrence (1909); Russell (1893a, 1893b)

## Prince William Sound

College Fiord, glaciation: Martin (1913e)Columbia Glacier: Martin (1911b)National Geographic Society, glacier studies: Tarr and Martin (1914)

## Southeastern Alaska

Glacial origin of folded slates: Blackwelder (1907b)Glaciation, Paleozoic: Kirk (1918b)

## Glaciers

General: Martin (1915a); Topham (1889)

## Glacier Bay region

General: Reid (1896)Recent changes: Wright, C. W. (1907c); Wright, F. E. (1907)Recession: Morse (1908)

## Hubbard Glacier

General: Martin (1910b)Position of front, 1792, 1794: Tarr and Martin (1907)Malaspina Glacier: Martin (1909); Russell (1893a, 1893b); Tarr (1907c, 1907e, 1907f)Mount Saint Elias region: Topham (1889); Russell (1893b)

## Muir Glacier

General: Andrews (1903); Baldwin (1892); Chickering (1888); Cushing (1891, 1892); Lamplugh (1885); Reid (1892a, 1892b); Wright (1887, 1891)Movement: Cushing (1893); Wright (1892)

## GLACIAL GEOLOGY AND GLACIOLOGY - Continued

## Southeastern Alaska - Continued

## Glaciers - Continued

## Muir Glacier - Continued

Oscillations: Tarr (1910a)Recent changes: Baldwin (1893)Underlying deposits, origin: Russell (1892c)

## Yakutat Bay region, vicinity of Malaspina Glacier

Fossil glacier: Dall (1880)General, glaciers and glaciation: Tarr and Butler (1909); Tarr and Martin (1906a)Glacial advance and relation to earthquakes: Tarr (1910b)Glacier drainage and wastage, associated phenomena: Von Engeln (1911)Glacier margins, phenomena: Tarr (1908)Malaspina Glacier and others, recent changes: Tarr (1907c)National Geographic Society, glacier studies: Tarr and Martin (1914)Physiography and glacial geology: Tarr (1907b, 1909)Second expedition: Tarr (1907d)Yakutat Bay to Alsek River, glacial features: Blackwelder (1907a)

## Western Alaska

Glaciation, Yukon valley, lack of evidence: Hyatt (1868); Shaler (1868)Seward Peninsula, glacial phenomena: Brooks and Collier (1901)

## HISTORICAL GEOLOGY

## Arctic Alaska

Alaska-Canada boundary, between Porcupine and Yukon Rivers: Cairnes (1913a, 1914b, 1914c, 1914d)Alatna-Noatak region: Smith (1912d)Arctic Slope, reconnaissance: Leffingwell (1913)Cape Lisburne region, coal: Collier (1906)Cape Thompson, stratigraphic section: Kindle (1909b)Chand[all]ar and Koyukuk Rivers, reconnaissance: Schrader (1900b)Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)Koyukuk-Chandalar region: Maddren (1913)Koyukuk-Kobuk region: Smith (1911a)Noatak-Kobuk region: Smith (1913e)Northern Alaska, reconnaissance: Schrader (1902, 1904)Porcupine River, Tertiary basin, reconnaissance: Kindle (1907a, 1908a)Porcupine River to Arctic Ocean, Canada-Alaska boundary: Maddren (1912a)Yukon-Koyukuk region: Eakin (1914a, 1916b)Yukon River, upper, Paleozoic section: Brooks and Kindle (1907)

## General Alaska

Age of last major glaciation: Capps (1915b)Coal and lignite of Alaska: Dall (1896)Exploration routes, 1898: Eldridge and others (1899)Explorations, early: Dall (1868a, 1868b)Jurassic seas near Pacific Ocean: Dacqué (1911)Mesozoic stratigraphy: Martin, G. C. (1912)Mineral resources: Emmons (1898a)Notes on stratigraphy and igneous rocks: Emerson (1904)Observations on Alaska: Dall (1869b)Pleistocene, mammoths and other fossils: Maddren (1905b)Reconnaissance map discussed: Brooks (1907a)Relation to fossils reported by A. L. Pinart: Fischer (1872)

## HISTORICAL GEOLOGY - Continued

## General Alaska - Continued

Routes to gold fields: Emmons (1898b)  
 Tertiary deposits: Dall (1882)  
 Triassic rocks: Martin (1916)

## Interior Alaska

Alaska-Canada boundary, between Porcupine and Yukon Rivers: Cairnes (1913a, 1914b, 1914c, 1914d)  
 Bonnifield region: Capps (1912c)  
 Cantwell formation, Tertiary: Pogue (1915)  
 Central Alaska, Quaternary: Eakin (1913d, 1917c)  
 Chand[al]lar and Koyukuk Rivers, reconnaissance: Schrader (1900b)  
 Chisana-White River district: Capps (1915d, 1916b)  
 Circle quadrangle, reconnaissance: Prindle (1906a, 1913a)  
 Cosna-Nowitna region: Eakin (1918)  
 Fairbanks district, detailed description: Prindle and Katz (1913)  
 Fairbanks quadrangle  
   Northeastern part, sketch: Prindle (1910b)  
   Reconnaissance: Prindle (1913b)  
 Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)  
 Fortymile quadrangle: Prindle (1909)  
 Nenana region: Overbeck (1917)  
 Porcupine River, Tertiary basin, reconnaissance: Kindle (1907a)  
 Pyramid Harbor to Eagle City, Porcupine district and Fortymile region, reconnaissance: Brooks (1900a)  
 Rampart region, placers: Prindle and Hess (1906)  
 Resurrection Bay to Tanana River: Mendenhall (1900)  
 Tolovana district: Brooks (1916b); Mertie (1917d)  
 Yukon-Koyukuk region: Eakin (1914a, 1916b)  
 Yukon River basin or region  
   Alluvial deposits: Dall (1869a)  
   Coal-bearing series: Collier (1903a)  
   General: Spurr (1898)  
 Upper  
   Paleozoic section: Brooks and Kindle (1907)  
   Volcanic ash near Circle: Capps (1915a)

## South-central Alaska

Broad Pass region: Moffit and Pogue (1915)  
 Cantwell formation, Tertiary: Pogue (1915)  
 Chisana-White River district: Capps (1915d, 1916b)  
 Chitina River and Skolai Mountains, reconnaissance: Rohn (1900)  
 Chitina valley: Moffit (1916, 1918)  
 Controller Bay region: Martin (1908)  
 Cook Inlet and Alaska Peninsula, Mesozoic section: Stanton and Martin (1905)  
 Cook Inlet region, northeastern part: Paige and Knopf (1907c)  
 Copper River district or region  
   Central: Mendenhall (1905)  
   Glacial deposits, continental type: Tarr and Martin (1913b)  
   Part: Schrader and Spencer (1901)  
 Copper River district or region and Prince William Sound: Schrader (1900a)  
 Copper River valley, upper, Carboniferous section: Mendenhall (1903a)  
 Ellamar district: Capps and Johnson (1915)  
 Gulkana-Susitna Rivers region: Moffit (1912a)  
 Hanagita-Bremner region: Moffit (1914a)



## HISTORICAL GEOLOGY - Continued

## South-central Alaska - Continued

- Iliamna region: Martin and Katz (1912a)  
 Kachemak Bay, lignite: Parks (1915)  
 Kenai Peninsula: Martin, Johnson and Grant (1915)  
 Kotsina-Chitina region: Moffit and Maddren (1909)  
 Kotsina-Kuskulana district  
   General: Moffit (1915)  
   Turnagain Arm region: Moffit (1906a)  
 Lake Clark-central Kuskokwim region: Smith, P. S. (1917)  
 Lake Clark-Iditarod region: Smith (1915a, 1916a, 1916b)  
 Matanuska and Talkeetna basins: Paige and Knopf (1907a, 1907b)  
 Matanuska valley or coal field: Martin (1906a); Martin and Katz (1912b)  
 Middleton Island: Dawson (1893)  
 Mount McKinley region: Brooks (1908a, 1911d)  
 Mount Saint Elias area or region  
   General: de Filippi (1900); Novarese (1900); Russell (1891a)  
   Quaternary: Maddren (1914b)  
 Nelchina-Susitna region: Chapin (1915, 1918a)  
 Nenana region: Overbeck (1917)  
 Nizina district: Moffit and Capps (1911)  
 Prince William Sound, ellipsoidal lavas: Capps (1914b, 1915e)  
 Resurrection Bay to Tanana River: Mendenhall (1900)  
 Susitna basin and vicinity, reconnaissance: Eldridge (1900)  
 Turnagain-Knik [Arms] region: Capps (1916c)  
 White River region, copper-bearing amygdaloids: Knopf (1910b)  
 Willow Creek district: Capps (1915f)  
 Yakataga district: Maddren (1914a)  
 Yakutat Formation, age: Ulrich (1904)  
 Yentna district: Capps (1913)

## Southeastern Alaska

- Berners Bay region: Knopf (1911a)  
 Eagle River region: Knopf (1912a)  
 General reconnaissance: Brooks (1902b)  
 Glacier Bay area: Cushing (1896)  
 Gravina and Revillagigedo Islands: Chapin (1918b)  
 Gravina Island: Smith (1915b)  
 Ketchikan and Wrangell districts: Wright and Wright (1908)  
 Ketchikan mining district: Brooks (1902d)  
 Mount Saint Elias area or region  
   General: de Filippi (1900); Novarese (1900); Russell (1891a)  
   Quaternary: Maddren (1914b)  
 Muir Glacier vicinity: Cushing (1892)  
 Ordovician fauna: Kirk (1918a)  
 Paleozoic faunas and stratigraphy: Kindle (1907b)  
 Paleozoic glaciation: Kirk (1918b)  
 Prince of Wales Island, Copper Mountain and Kasaan Peninsula: Wright (1915)  
 Sitka mining district: Knopf (1912b)  
 White Pass region: Heydon (1898)  
 Yakutat Bay region: Blackwelder (1907b, 1909); Tarr (1909); Tarr and Butler (1909)

## Southwestern Alaska

- Alaska Peninsula: Atwood (1911)  
 Aleutian Islands, Miocene and Cretaceous formations: von Eichwald (1871)

## HISTORICAL GEOLOGY - Continued

## Southwestern Alaska - Continued

## Geologic studies

Alaska Peninsula, Balboa-Herendeen Bays area or region: Atwood (1909a)General: Atwood (1908a)Reconnaissance in 1898: Spurr (1900a)Stepovak Bay region: Palache (1904a)

## Western Alaska

Anvik-Andreafski region: Harrington (1917, 1918b)Central Alaska, Quaternary: Eakin (1913d, 1917c)Cosna-Nowitna region: Eakin (1918)Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)Iditarod-Ruby region: Eakin (1914d)Koyukuk-Kobuk region: Smith (1911a)Kuskokwim region, mercury deposits: Smith and Maddren (1915)Lake Clark-central Kuskokwim region: Smith, P. S. (1917)Norton Bay region, reconnaissance: Mendenhall (1901)Reconnaissance in 1898: Spurr (1900a)Ruby-Kuskokwim region: Mertie and Harrington (1916)

## Seward Peninsula

Cape Nome and Norton Bay regions: Brooks (1901b); Halla (1907); Schrader and Brooks (1900)Fairhaven placers: Moffit (1905a)Nome and Grand Central quadrangles: Moffit (1913a)Northwestern part, reconnaissance: Collier (1902)Parts, including Nome, Council, Kougarok, Port Clarence, and Goodhope precincts: Collier, Hess, Smith and Brooks (1908)Port Clarence limestone, faunal succession: Kindle (1911)Southern, and Norton Bay-Nulato region: Smith and Eakin (1911a)York region, tin deposits: Collier (1904b); Knopf (1908a)Yukon-Koyukuk region: Eakin (1914a, 1916b)

## Yukon River region

Alluvial deposits: Dall (1869a)Coal-bearing series: Collier (1903a)General: Spurr (1898)Lower, Late Tertiary and Quaternary history: Harrington (1918a)

## HYDROGEOLOGY [UNDERGROUND WATER]

## General Alaska

Mineral springs: Waring (1917)

## South-central Alaska

Water-power reconnaissance: Ellsworth and Davenport (1914)

## Southeastern Alaska

Water-power reconnaissance: Hoyt (1910)

## Western Alaska

Seward Peninsula, geography and geology, sketch: Smith (1913a)

## MAPS, GEOLOGIC OR OTHER

## Arctic Alaska

Alaska-Canada boundary, between Porcupine and Yukon Rivers: Cairnes (1912c, 1914b, 1914d)Cape Lisburne region, coal: Collier (1906)Chand[a]llar and Koyukuk Rivers, reconnaissance: Schrader (1900b)Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)

## MAPS, GEOLOGIC OR OTHER - Continued

## Arctic Alaska - Continued

Koyukuk-Chandalar region: Maddren (1910b, 1913)Noatak-Kobuk region: Smith (1913e)Northern Alaska, reconnaissance along major rivers and Arctic coast: Schrader (1904)Northwestern Alaska, glaciation: Smith (1912b)Shungnak region, Kobuk valley: Smith and Eakin (1911b)Squirrel River placers: Smith (1911b)Yukon-Koyukuk region: Eakin (1914a, 1916b)

## General Alaska

Antimony deposits: Brooks (1916a)

## Coal

Problems: Fisher (1911)Resources: Brooks (1902e, 1905d, 1910); Brooks and Martin (1913)Coal and lignite: Dall (1896)

## Exploration

Routes, 1898: Eldridge and others (1899)Routes to gold fields: Emmons (1898b)Search for mammoths and other fossils: Maddren (1905b)Geography and geomorphology: Brooks (1905b)Geology and geography, summary: Brooks (1906c)

## Glaciers

Coastal Alaska: Martin, Lawrence (1912)Existing in United States: Russell (1885)Relation to life: Martin, Lawrence (1913a)Russian charts and old reports: Davidson (1904)Metalliferous lodes: Brooks (1911b)Mineral resources, distribution: Brooks (1908b)Mineral springs: Waring (1917)Mountain exploration: Brooks (1914a)Petroleum fields: Brooks (1915b)Reconnaissance map discussed: Brooks (1907a)Regulations governing leases: United States Department of the Interior (1916)Upper Yukon River, Paleozoic section: Brooks and Kindle (1908)

## Interior Alaska

Alaska-Canada boundary, between Porcupine and Yukon Rivers: Cairnes (1912c, 1914d)Bonfield region: Capps (1911, 1912c)Central Kuskokwim and Yukon Rivers: Maddren (1910a)Chand[a]llar and Koyukuk Rivers, reconnaissance: Schrader (1900b)Chisana district: Brooks (1914b); Cairnes (1914a)Chisana-White River district, mineral resources: Capps (1915d, 1916b)Circle quadrangle: Prindle (1906a, 1913a)Cosna-Nowitna region: Eakin (1916a, 1918)

## Fairbanks district or region

Detailed description: Prindle and Katz (1913)Fineness of gold: Smith (1913d)Lode mining: Smith (1913b, 1913c)Placers: Prindle and Katz (1909)Fairbanks and Rampart quadrangles: Prindle (1908b)

## Fairbanks quadrangle

General: Prindle (1908b)Northeastern part, sketch: Prindle (1910b)Reconnaissance: Prindle (1913b)

## MAPS, GEOLOGIC OR OTHER - Continued

## Interior Alaska - Continued

- Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)  
 Fortymile, Birch Creek and Fairbanks regions: Prindle (1905)  
 Fortymile quadrangle: Prindle (1909)  
 Lode mining near Fairbanks: Chapin (1914b)  
 Mount McKinley region: Brooks (1911d)  
 Nenana region, lode deposits: Overbeck (1917)  
 Railroad routes, Fairbanks to Pacific seaboard: Brooks (1912b)  
 Rampart and Hot Springs regions: Eakin (1912)  
 Rampart quadrangle, part, reconnaissance: Eakin (1913a)  
 Rampart region  
   General: Hess (1908)  
   Placers: Prindle and Hess (1906)  
 Resurrection Bay to Tanana River: Mendenhall (1900)  
 Tin deposits, distribution: Eakin (1915f)  
 Tolovana district  
   General: Brooks (1916b)  
   Placers: Mertie (1917d)  
 Wrangell Mountains, north side: Capps (1910a)  
 Yukon basin, upper, near Circle, volcanic ash: Capps (1915a)  
 Yukon-Koyukuk region: Eakin (1914a, 1916b)  
 Yukon River region  
   General: Collier (1903b); Hayes (1892); Spurr (1898)  
   Upper, Woodchopper to Fourth of July Creek, placers: Prindle and Mertie  
     (1912)  
 Yukon-Tanana region: Prindle (1905, 1906a, 1908a)

## South-central Alaska

- Alaska Range, glaciation: Capps (1912a)  
 Bering River coal field: Fisher and Calvert (1914); Kay (1911a)  
 Bremner River district: Moffit (1912c, 1914a)  
 Broad Pass region: Moffit (1914c); Moffit and Pogue (1915)  
 Chisana district: Brooks (1914b); Cairnes (1914a); Ellis (1915)  
 Chisana-White River district, mineral resources: Capps (1915d, 1916b)  
 Chitina valley, upper, mineral resources: Moffit (1916, 1918)  
 Controller Bay region: Martin (1908)  
 Cook Inlet and Alaska Peninsula, Mesozoic section: Stanton and Martin (1905)  
 Cook Inlet, coal fields: Kirsopp (1903)  
 Copper River basin, district or region  
   Central: Mendenhall (1905)  
   Kotsina and Chitina valleys, mineral resources: Moffit and Maddren (1908,  
     1909)  
   Lower, mining: Moffit (1917)  
   Part: Schrader and Spencer (1901)  
 Copper River district and Prince William Sound: Schrader (1900a)  
 Ellamar district, mineral deposits: Capps and Johnson (1913, 1915)  
 Gravina Island: Smith (1915b)  
 Gulkana-Susitna Rivers region: Moffit (1912a)  
 Hanagita-Bremner region: Moffit (1914a)  
 Iliamna-Lake Clark region: Martin and Katz (1910, 1912a)  
 Kantishna region: Capps (1917)  
 Kenai Peninsula  
   General: Martin, Johnson and Grant (1915)  
   Seward-Sunrise region: Johnson (1912)  
   Southern part: Grant and Higgins (1910b)

## MAPS, GEOLOGIC OR OTHER - Continued

## South-central Alaska - Continued

- Kotsina-Kuskulana district, mineral deposits: Moffit (1915)  
 Lake Clark-central Kuskokwim region: Smith, P. S. (1917)  
 Lake-Clark-Iditarod region: Smith (1915a)  
 Lake Clark-Iliamna region: Martin and Katz (1910, 1912a)  
 Latouche and Knight Islands districts, Prince William Sound, copper deposits:  
     Johnson (1917a)  
 Malaspina Glacier area: Russell (1893a, 1893b)  
 Matanuska and Nelchina valleys, upper, mineral resources: Martin and Mertie:  
     (1914)  
 Matanuska and Talkeetna basins, reconnaissance: Paige and Knopf (1907a, 1907b)  
 Matanuska coal field: Martin (1906a, 1911); Martin and Katz (1912b)  
 McKinley Lake district: Chapin (1913)  
 Mount McKinley region: Brooks (1911d)  
 Mount Saint Elias region: Russell (1891a)  
 Mount Wrangell district, mineral resources: Mendenhall and Schrader (1903b)  
 Nabesna-White River district, mineral resources: Moffit and Knopf (1909, 1910)  
 Nelchina-Susitna region: Chapin (1915, 1918a)  
 Nenana region, lode deposits: Overbeck (1917)  
 Nizina district: Moffit and Capps (1911)  
 Pacific coast petroleum fields: Martin (1905e)  
 Port Valdez district, gold and copper: Brooks (1912a); Johnson (1915b)  
 Port Wells district, northwest of Prince William Sound: Johnson (1914b)  
 Prince William Sound  
     College Fiord, glaciers and glaciation: Martin (1913e)  
     General: Grant and Higgins (1910c)  
     Mining: Johnson (1915a)  
 Prince William Sound and lower Copper River regions: Tarr and Martin (1914)  
 Railroad routes, Fairbanks to Pacific seaboard: Brooks (1912b)  
 Resurrection Bay to Tanana River: Mendenhall (1900)  
 Shushana (Chisana) district: Ellis (1915)  
 Susitna, upper, and Chistochina districts: Moffit (1911a)  
 Taral and Bremner River districts: Moffit (1912c)  
 Turnagain-Knik [Arms] region: Capps (1916c)  
 Valdez district: Brooks (1912a); Johnson (1915b)  
 Water-power reconnaissance: Ellsworth and Davenport (1914)  
 Willow Creek district or region, north of Anchorage  
     General: Capps (1914a, 1915f)  
     Reconnaissance: Katz (1911)  
 Wrangell Mountains, north side: Capps (1910a)  
 Yakataga district, mineral deposits: Maddren (1914a)  
 Yentna district: Capps (1912b, 1913)
- Southeastern Alaska  
 Admiralty Island, reconnaissance: Wright (1906a)  
 Berners Bay region: Knopf (1911a)  
 Eagle River region: Knopf (1912a)  
 Glacier Bay region: Reid (1896)  
 Glaciers: Klotz (1899)  
 Gravina and Revillagigedo Islands, sketch: Chapin (1918b)  
 Juneau area, gold belt, lode mining: Eakin (1917b); Spencer (1906)  
 Juneau-Yakutat region, geomorphology or physiography: Martin (1913d)  
 Ketchikan and Wrangell districts: Wright and Wright (1908)  
 Malaspina Glacier: Russell (1893a)

## MAPS, GEOLOGIC OR OTHER - Continued

## Southeastern Alaska - Continued

## Marble deposits

Ketchikan and Wrangell districts: Burchard (1913)Juneau, Skagway and Sitka districts: Burchard (1914b)Mineral resources: Garside (1893)

## Mining developments

Gold and copper lode: Chapin (1916); Wright (1908a)Ketchikan and Wrangell districts: Chapin (1917)Mount Saint Elias region: Russell (1891a, 1893b)Muir Glacier area: Reid (1892a, 1892b)Porcupine district, Klehini River tributary to Chilkat River, near Lynn Canal, placers: Eakin (1917a); Wright (1904a)Prince of Wales Island, Copper Mountain and Kasaan Peninsula: Wright (1915)Prince Rupert-Skagway region: Wright (1913)Sitka mining district: Knopf (1912b)Yakutat Bay region: Tarr and Butler (1909); Tarr and Martin (1914)

## Southwestern Alaska

Alaska Peninsula: Atwood (1911)Cold Bay petroleum field: Martin (1905e)Katmai volcano and vicinity: Martin, G. C. (1913b)Kodiak and neighboring islands, mineral deposits: Martin, G. C. (1913a)Reconnaissance in 1898: Spurr (1900a)

## Western Alaska

Anvik-Andreafski region: Harrington (1917, 1918b)Cosna-Nowitna region: Eakin (1916a, 1918)Fort Hamlin to Kotzebue Sound, reconnaissance: Mendenhall (1902)Iditarod-Ruby region: Eakin (1914d)Innoko-Iditarod region, placer mining developments: Maddren (1911)Innoko, Ruby, and Gold Hill districts: Maddren (1910a)Kuskokwim and Yukon Rivers, central: Maddren (1910a)Lake Clark-central Kuskokwim region: Smith, P. S. (1917)Nulato-Council region: Smith and Eakin (1910)Reconnaissance in 1898: Spurr (1900a)Ruby-Kuskokwim region, mineral resources: Mertie and Harrington (1916)Ruby or Ruby Creek district: Eakin (1913c); Maddren (1909b, 1912b)

## Seward Peninsula

Cape Nome region: Brooks, Richardson, Collier and Mendenhall (1901); Schrader and Brooks (1900, 1901); Weber (1900)Fairhaven placers: Moffit (1905a)Geography and geology, sketch: Smith (1913a)Iron Creek region: Smith (1909b)Lode developments, gold, tin: Chapin (1914a)Nome and Grand Central quadrangles: Moffit (1913a)Northwestern part, reconnaissance: Collier (1902)Solomon and Casadepaga quadrangles: Smith (1910)Southern part, and Norton Bay-Nulato region: Smith and Eakin (1911a)York region, tin deposits: Collier (1903d, 1904c); Knopf (1908a)Tin deposits, distribution: Eakin (1915f)Yukon-Koyukuk region: Eakin (1914a, 1916b)Yukon River region: Collier (1903b); Hayes (1892); Spurr (1898)

## MINERALOGY

## Arctic Alaska

Jade, supposed, Jade Mountains: Merrill (1885b)

Nephrite, Jade Mountains: Clarke and Merrill (1888)

## General Alaska

Boron minerals, new, contact metamorphic origin: Knopf and Schaller (1908)

Epidote crystals, description: Palache (1902)

Gold, galena, pyrite, intergrown crystals: Pogue (1909, 1911)

Hulsite and paigeite: Schaller (1910)

Mineralogical notes: Schaller (1907, 1911)

Minerals collected by Harriman Alaska Expedition: Palache (1904b)

Scapolite rocks: Spurr (1900b, 1909)

Zinnwaldite: Schaller (1907)

## Interior Alaska

Wolframite and cassiterite, Birch Creek district: Johnson (1910)

## South-central Alaska

Chalcocite, types, etch patterns, Big Bonanza deposits: Tolman (1916)

Chalmersite, Prince William Sound: Johnson (1917c, 1918a)

Pyrrhotite, relation to chalcopyrite and other sulfides, Big Bonanza deposits:  
Thompson (1913)

## Southeastern Alaska

Gold, microscopical, Treadwell Mine, Douglas Island: Adams (1889)

## Western Alaska

Cassiterite, Seward Peninsula: Brooks (1901a)

Wolframite-topaz ore, Lost River, Seward Peninsula: Knopf (1908d)

## PALEOCLIMATOLOGY

## General Alaska

Climatic history, new view point: Blackwelder (1918)

Climatic changes indicated by glaciers: Russell (1892a)

Southwestern Alaska, Katmai volcano, relation to climate: Abbot and Fowle (1913)

Western Alaska, Seward Peninsula, Pliocene climatic conditions near Nome: Dall  
(1907)

## PALEONTOLOGY

## Arctic Alaska

## Cape Lisburne region

Flora, Jurassic: Knowlton (1914)

Invertebrates: Girty (1906)

Plants: Knowlton (1906); White (1906)

## General Alaska

## Fauna or faunas

Paleozoic: Schuchert (1896)

Silurian, western North America: Kindle (1908b)

## Flora or plantae

Cretaceous and Tertiary: Hollick (1911a, 1913); Knowlton (1898a)

General: Knowlton (1894a, 1894b, 1896)

Kenai type, preliminary study: Hollick (1911b)

Mesozoic and Cenozoic, North America, catalogue: Knowlton (1919)

## Miocene

Cook Inlet: Heer (1868)

General: Lesquereux (1883)

Mount Saint Elias region: Knowlton (1891)

Polar lands: Heer (1868-83)

## PALEONTOLOGY - Continued

## General Alaska - Continued

## Flora or plantae - Continued

Review, including new species: Knowlton (1891)Woods: Platen (1908)

## Fossils, general

Animal and plant remains, coastal Alaska and Aleutian Islands: Grewingk (1850b)Coal and lignite: Dall (1896)Jurassic: Pompeckj (1900)Mesozoic: Hyatt (1896)Northwest coast of America: Pinart (1875)Reported by Pinart: Fischer (1872)Fruit or nut, supposed, Tertiary: Thomas (1917)General paleontology: Gilbert (1904a)

## Invertebrata or invertebrates

*Isocrinus*, Triassic: Bather (1918)Mollusca, freshwater, Tertiary and Recent: Hannibal (1912)*Mytilus middendorfi* Grewingk, unusual specimen: Gratacap (1912)Neozoic: Dall (1904)*Scala*, Miocene: Dall (1908)Invertebrate fossils, Pacific coast: White (1889)Mesozoic fossils: White (1884)

## Vertebrata or vertebrates, Pleistocene

Elephant remains, Eschscholtz Bay: Buckland (1831)Elephant teeth, northwest coast of North America: Blake (1867a)*Elephas primigenius* tooth found by Pinart: Gaudry (1872)Equus skull, central Alaska: Hay (1913)

## Mammoths

Expeditions of 1907 and 1908: Quackenbush (1909)General: Gaudry (1903); Gilmore (1908); Maddren (1905a, 1905b)Yukon River region, Canada-Alaska: Dawson (1894b)Ruminants: Gidley (1908)

## Interior Alaska

Mammoths, Pleistocene, Yukon River region, Canada-Alaska: Dawson (1894b)Plantae, Yukon River: Knowlton (1898b, 1904a)

## South-central Alaska

Fauna, Yakutat Formation: Ulrich (1904)

## Flora

Kenai type, preliminary study: Hollick (1911b)Lower Jurassic, upper Matanuska valley: Knowlton (1916)

## Southeastern Alaska

Ordovician fauna: Kirk (1918a)Paleozoic faunas and stratigraphy: Kindle (1907b)Triassic, Kupreanof Island: Atwood (1912)Wood, interglacial, Muir Glacier: Knowlton (1895)

## Southwestern Alaska

Miocene and Cretaceous formations, Alaska and Aleutian Islands: von Eichwald (1871)Plantae, Alaska Peninsula, Kukak Bay: Knowlton (1904b)

## Western Alaska

Plantae, Yukon River: Knowlton (1898b, 1904a)

## Seward Peninsula

Faunal succession, Port Clarence Limestone: Kindle (1911)*Pecten*, new species, Nome area: Dall (1907)



## PETROLOGY

## General Alaska

Microscopic study and analyses of rocks: de Cessac (1875)

Northwest coast of America: Pinart (1875)

Scapolite rocks: Spurr (1900b, 1909)

Southern gold fields: Becker (1898)

## Interior Alaska

General, Yukon River region: Spurr (1898)

## Igneous rocks

Circle quadrangle: Mertie (1913)

Mt. McKinley region, including Bonnifield and Kantishna districts: Prindle (1911)

## South-central Alaska

## Igneous rocks

Chitina valley, upper: Overbeck (1918)

Mt. McKinley region, including Bonnifield and Kantishna districts: Prindle (1911)

## Southeastern Alaska

Glacier Bay area: Cushing (1896)

Granites: Adams (1891)

Mount Edgecumbe, hypersthene andesite: Cushing (1897)

Muir Glacier region, eruptive rocks: Williams (1892)

Vein-forming waters, magmatic origin: Spencer (1905b)

Yakutat Bay region, rocks: Butler (1909)

## Southwestern Alaska

## Bogoslof Island

Hornblende andesite: Merrill (1884, 1885a)

Lava: Diller (1885a)

## General

Reconnaissance in 1898: Spurr (1900a)

Stepovak Bay region: Palache (1904a)

## Volcanic ash

Kodiak, mineral content: Fry (1912)

Unalaska Island, sand and dust: Diller (1884a, 1884b, 1885b)

## Western Alaska

## General

Reconnaissance in 1898: Spurr (1900a)

Yukon River region: Spurr (1898)

## PHYSICAL GEOLOGY

## General Alaska

Changes of level: Meehan (1883); Tarr and Martin (1905)

## Erosion

Glacial: Tarr (1907a)

Lateral, by streams: Eakin (1910)

Fiord filling: Martin (1915b)

## Southeastern Alaska

Changes of level, Yakutat Bay region: Tarr and Martin (1906b, 1906c)

## SEDIMENTATION

## Interior Alaska

Yukon River, alluvial deposits: Dall (1869a)

## South-central Alaska

Hanagita-Bremner region, Quaternary deposits: Chapin (1914e)

Valdez delta: Johnson (1918b)

## SEDIMENTATION - Continued

## Southeastern Alaska

Yakutat coastal plain, combined terrestrial and marine formations: Blackwelder (1909)

## Western Alaska

Yukon River, alluvial deposits: Dall (1869a)

## STRATIGRAPHY

## Arctic Alaska

Alaska-Canada boundary, between Porcupine and Yukon Rivers: Cairnes (1913a, 1914b)

Cape Thompson section: Kindle (1909b)

Orange group [name abandoned, 1914], Mesozoic, Orange Fork of Black River, Yukon region: Cairnes (1912a)

Yukon River, upper, Paleozoic section: Brooks and Kindle (1907)

## General Alaska

Jurassic seas near Pacific Ocean: Dacqué (1911)

Mesozoic: Martin, G. C. (1912)

Notes on stratigraphy and igneous rocks: Emerson (1904)

Tertiary deposits: Dall (1882)

Triassic rocks: Martin (1916)

## Interior Alaska

Alaska-Canada boundary, between Porcupine and Yukon Rivers: Cairnes (1913a, 1914b)

Cantwell Formation, Tertiary, continental: Pogue (1915)

Orange group [name abandoned, 1914], Mesozoic, Orange Fork of Black River, Yukon region: Cairnes (1912a)

Yukon River region, coal-bearing series: Collier (1903a)

Yukon River, upper, Paleozoic section: Brooks and Kindle (1907)

## South-central Alaska

Cantwell Formation, Tertiary, continental: Pogue (1915)

Cook Inlet and Alaska Peninsula, Mesozoic section: Stanton and Martin (1905)

Cook Inlet region, northeastern part: Paige and Knopf (1907c)

Copper River valley, upper, Carboniferous section: Mendenhall (1903a)

## Southeastern Alaska

Gravina and Revillagigedo Islands: Chapin (1918b)

Paleozoic faunas and stratigraphy: Kindle (1907b)

## Western Alaska

Yukon River region, coal-bearing series: Collier (1903a)

## STRUCTURAL GEOLOGY

## General Alaska

Faulting, oblique, minor: Martin (1907)

Warpings, recent, shown by drainage patterns: Goodrich (1898)

## South-central Alaska

Nizina River, thrust fault, unusual exposure: Capps (1915c)

## Southeastern Alaska

Gravina and Revillagigedo Islands: Chapin (1918b)

Vein-filled openings, origin: Spencer (1905c)

## VOLCANISM AND VOLCANOLOGY

## General Alaska

Atmospheric dust and volcanic sand from Unalaska: Diller (1884a, 1884b, 1885b)

Volcanic activity: Crosby (1907)

## VOLCANISM AND VOLCANOLOGY - Continued

## General Alaska - Continued

Volcanic phenomena, Aleutian Islands, Alaska Peninsula, and North American coast: Perrey (1866)

## Volcanoes

Miscellaneous: Anonymous (1912); Cordiero (1910)

Near southern gold fields: Becker (1898)

North American: Russell (1897b)

Reminiscences: Dall (1918)

## Interior Alaska

Yukon basin, upper, ancient volcanic eruption: Capps (1915a)

## South-central Alaska

Mount Saint Augustine, eruption of October 6, 1883: Davidson (1884)

Prince William Sound, ellipsoidal lavas: Capps (1914b, 1915e)

White River region, copper-bearing amygdaloids: Knopf (1910b)

## Southeastern Alaska

Muir Glacier region, eruptive rocks: Williams (1892)

## Southwestern Alaska

Aleutian Islands and Alaska Peninsula: Perrey (1866)

Bogoslof Island (or volcano) area

Changes: Powers (1916a); Smith (1908b)

Eruptions: Eakle (1908)

Further notes: Dall (1885)

General: Jordan and Clark (1906)

Grewingk Island, near Bogoslof Island: Dall (1884a)

Journal of 1907 expedition: Jaggard (1908)

New volcano: Anonymous (1884a, 1884b); Diller (1885a); Merriam (1902a, 1902b); Merrill (1884, 1885a)

Volcanic domes in Pacific Ocean: Powers (1916b)

Katmai eruption: Abbot and Fowle (1913); Clark (1912); Dailey (1912); Griggs (1918b, 1918d); Martin, G. C. (1913b)

Kodiak, volcanic ashes, mineral content: Fry (1912)

Unalaska Island, atmospheric dust and volcanic sand: Diller (1884a, 1884b, 1885b)

## Valley of Ten Thousand Smokes

Mud flow and volcanoes: Griggs (1918c)

Volcanoes, Katmai eruption: Griggs (1918d)

Volcanoes or not: Griggs (1918a)

## Western Alaska

Seward Peninsula, volcanic ash fall: Smith (1912a)

## ERRATA

## NOTES ABOUT U. S. GEOLOGICAL SURVEY PUBLICATIONS

The following publications of the U. S. Geological Survey listed in this bibliography were published as single reports and as groups of separate chapters:

Professional Papers 85, 95, and 98  
Bulletins 314, 345, 379, 442, 480, 520, 542, 592, and 622

When published separately, chapters were given letters as well as numbers. For example, Bulletin 314 includes a report by G. C. Martin (1907b), which also was published as a separate chapter, Bulletin 314-B.

In this volume of the Bibliography of Alaskan Geology, chapter letters have been omitted, because they were not given in the source volumes from which most of the entries listed here were taken (U. S. Geological Survey Bulletins 746 and 747). In general, this procedure created no problems, because the publication dates for chapters and complete Bulletins were the same. In some cases, however, chapters bear dates that differ from that of a complete volume. For example, articles or reports by Capps (1917), Chapin (1917), Eakin (1917a, 1917b), Harrington (1917), Johnson (1917b), Maddren (1917), Mertie (1917a, 1917b, 1917c, 1917d), and Moffit (1917) appeared in separate chapters of Bulletin 662, but they also appeared in the complete Bulletin listed here under Brooks and others (1918).

Discrepancies in the wording of titles also may be noted. For example, if the word Alaska appears in brackets, this word may have been included in the title of an article published as a separate Bulletin chapter, but may have been omitted from the title of the same article published in the complete Bulletin.

Free lists of publications on Alaska, which show Bulletin and Professional Paper chapter letters and contents, can be obtained from the U. S. Geological Survey, 345 Middlefield Road, Menlo Park, California. Such lists contain the authors and titles of a few articles or reports about Alaska which were not included in the Bibliography of Alaskan Geology largely because they contain little or new information of a geological nature. Several pertain mainly to surface water, and at least two contain single-sentence references to poorly documented or unconfirmed mineral occurrences. A report entitled "Precambrian geology of North America" by C. R. Van Hise and C. K. Leith (1906, U. S. Geol. Survey Bull. 360, 939 p.) contains data on Alaska abstracted by A. H. Brooks from one of his reports listed in this Bibliography under Brooks (1906c).