Geological Literature on the Gulf and Southeastern Coastal Regions of Alaska

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FORWARD

The Gulf of Alaska Basin, where the first commercial production of petroleum was discovered in Alaska, has received an increasing amount of exploration interest and activity. In order to stimulate further development in the area, a comprehensive bibliography of geological literature on the area has been compiled by the most knowledgeable and experienced people in Alaskan geology--the Alaska branch of the U. S. Geological Survey.

Normally, a bibliography such as this would be issued as an open file report of the Survey with formal publication following upon appropriate authorization by the Director. Because of the keen interest of all Americans today in Alaska's natural resources and the responsibility of the Alaska Department of Natural Resources in conservation development and management, the Survey extended the privilege to this Department to timely publish their work. Such a spirit of coordination and cooperation manifested by the Survey's offer is not only sincerely appreciated by those of us in State Government but serves as factual evidence of the close Federal-State relationship in Alaska on matters of earth science.

Charles F. Herbert, Commissioner
Department of Natural Resources
State of Alaska

Juneau, Alaska
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GEOLOGICAL LITERATURE ON THE GULF AND SOUTHEASTERN
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INTRODUCTION

This compilation includes most of the geological literature on the Gulf of Alaska and adjacent highland, and the southeastern panhandle of Alaska (see figure 1) published prior to July 1, 1970. Most oceanographic reports on the adjacent Continental Shelf are included. As shown by figure 2, the land area encompasses Kodiak Island, the Kenai-Chugach Mountains, the Fairweather Range, and parts of the St. Elias Mountains and the Coast Mountains. The general geology of this region is shown on figure 3.

In the compilation of these references, special effort has gone into the search for literature pertaining to petroleum geology, which includes the closely associated fields of stratigraphy, paleontology, structure and geophysics. In addition, all available articles on petroleum exploration and development published in petroleum trade journals have been sought. The literature on mineral-deposit geology is well represented, but no attempt has been made to include all professional and trade-journal articles dealing primarily with mining problems and operations.

The simple one-subject index accompanying the references is meant to serve only as a guide in library search. Only the title of the reference has been considered in the indexing. The references are not cross indexed, so titles containing two subjects have been classed arbitrarily under the first subject mentioned. Thus reports entitled "Stratigraphy and structure of--" are indexed under STRATIGRAPHY, but not under STRUCTURE. Reports entitled "Geology of--" and all reconnaissance reports have been listed under AREAL GEOLOGY. Numerous reports listed under AREAL GEOLOGY could be listed equally well under GEOMORPHOLOGY or STRATIGRAPHY. Some geophysical reports could be placed under STRUCTURE, but only those whose title refers to structure are so listed.

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FIGURE 1. INDEX MAP OF ALASKA SHOWING LOCATION OF THE GULF AND SOUTHEASTERN COASTAL REGIONS OF ALASKA

FIGURE 2. INDEX MAP OF THE GULF AND SOUTHEASTERN COASTAL REGIONS OF ALASKA SHOWING PRINCIPAL PHYSIOGRAPHIC FEATURES IN RELATION TO AREA COVERED BY LITERATURE CITED

FIGURE 3. GENERALIZED GEOLOGIC MAP OF THE GULF AND SOUTHEASTERN COASTAL REGIONS OF ALASKA

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- Mendenhall Glacier: Chandler, R. F., Jr., 1943; Higashi, Akira, 1967
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- Muir Glacier: Andrews, C. L., 1903; Cushing, H. P., 1891, 1892, 1893; Reid, H. F., 1892; Russell, I. C., 1892a; Wright, G. F., 1887
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- Annette Island: Marcher, M. V., 1969
- Cordova: Walters, K. L., 1963
- Juneau area: Waller, R. M., 1956
- Kake: Waller, R. M., 1957
- Mendenhall Valley: Barnwell, W. W., and Boning, C. W., 1968
- Ocean Cape: Feulner, A. J., Heyward, H. H., and Angelo, C. G., 1967
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- Bering Sea and Gulf of Alaska: Gershanovich, D. E., 1967
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 Abyssal plains: Hurley, R. J., 1960
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Silurian

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Gastropods: Kirk, Edwin, 1928

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Devonian

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Mesozoic

Fauna: Hyatt, Alpheus, 1896; Ulrich, E. O., 1904

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Cretaceous

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Cenozoic

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Corals: Vaughan, T. W., 1941

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Lichens: Krog, Hildur, 1968

Pelecypods: MacNeil, F. S., 1967; Packard, E. L., and Jones,
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Tertiary

Fauna: Plafker, George, and MacNeil, F. S., 1966

Flora: Wolfe, J. A., 1969; Wolfe, J. A., and Hopkins,
D. M., 1967

Pelecypods: MacNeil, F. S., 1961, 1965; Miller, D. J.,
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Eocene

Flora: Hollick, C. A., 1911

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Ages (Cont'd.)

Oligocene

- Crustaceans: Rathbun, M. J., 1926
- Fauna: Clark, B. L., 1932a, 1932b
- Fish: Brown, R. W., 1946
- Foraminifera: Rau, W. W., 1963

Miocene

- Fauna: Bandy, O. L., Butler, E. A., and Wright, R. C., 1969

Pliocene

- Echinoids: Durham, J. W., 1957

Quaternary

- Flora: Heusser, C. J., 1957
- Foraminifera: Smith, P. B., 1963
- Mollusks: Tuthill, S. J., 1963
- Pollen: Heusser, C. J., 1952b

Pleistocene

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- Invertebrates: Dall, W. H., 1904

Holocene

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Alaska

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- Flora: Heer, Oswald, 1868, 1869; Knowlton, F. H., 1894a, 1894b; Ward, L. F., 1889

Alaska, southern

- Flora: Hollick, C. A., 1936
- Mammals: Klein, D. R., 1965
- Pollen: Heusser, C. J., 1955

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- Yakutat Bay area: Laguna, Frederica de, Riddell, F. A., McGeein, D. F., Lane, K. S., and Freed, J. A., 1964

Juneau Icefield

- Pollen: Heusser, C. J., 1952a

Kodiak bogs

- Pollen: Bowman, P. W., 1934

Latouche Island

- Bryophytes: Shacklette, H. T., 1961b

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Muir Glacier

Flora: Knowlton, F. H., 1895

Taku Glacier

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Basic intrusives

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Batholith

Coast Range: Kerr, F. A., 1932

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Gabbro

Fairweather Range: Rossman, D. L., 1963a

Granite

Prince of Wales Island: MacKevett, E. M., Jr., 1957b

Hornblendite

Annette and Duke Islands: Koschmann, A. H., 1935

Hypersthene-andesite

Mount Edgecumbe: Cushing, H. P., 1897

Minerals

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Prince of Wales Island: Montgomery, Arthur, 1937

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Igneous rocks (Cont'd.)

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- Alaska, southeastern: Taylor, H. P., Jr., 1967; Taylor, H. P., Jr., and Noble, J. A., 1960, 1966
- Blashke Island: Walton, M. S., Jr., 1951
- Duke Island: Irvine, T. N., 1959, 1962, 1963, 1964, 1965, 1967
- Mount Fairweather: Plafker, George, and MacKevett, E. M., Jr., 1969
- Union Bay: Ruckmick, J. C., 1957

Volcanics

- Hound Island: Brew, D. A., and Muffler, L. J. P., 1965; Muffler, L. J. P., Short, J. M., Keith, T. E.C., and Smith, V. C., 1969
- Mount Cook: Williams, G. H., 1892
- Mount Edgecumbe: Heropoulos, Chris, and Mays, R. E., 1969

Metamorphic rocks

Migmatites

- Juneau area: Forbes, R. B., 1952

Schists

- Juneau area: Forbes, R. B., 1959a

Sedimentary rocks

Beach sands

- Gulf of Alaska: Thomas, B. I., and Berryhill, R. V., 1962
- Lituya Bay: Rossman, D. L., 1957
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Outwash

- Norris Glacier area: Slatt, R. M., and Hoskin, C. M., 1968
- Sedimentologic indices: Ehrlich, Robert, and Davies, D. K., 1968
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- 1968: Cohee, G. V., Bates, R. G., and Wright, W. B., 1970;
Eberlein, G. D., and Churkin, Michael, Jr., 1970

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Yakataga area: Spieker, E. M., Walton, M. S., Jr., and Kirschner, C. E., 1945b

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Paleozoic

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Devonian

- Alaska: Gryc, George, Dutro, J. T., Jr., Brosgé, W. P., TAILLEUR, I. L., and Churkin, Michael, Jr., 1967

Mississippian

- Alaska, southeastern: Williams, J. S., 1945
North America: Weller, J. M., 1948

Pennsylvanian

- Alaska, southeastern: Dutro, J. T., Jr., and Douglass, R. C., 1961

Permian

- Alaska, southeastern: Williams, J. S., and Reed, J. C., 1946

Mesozoic

- Alaska: Martin, G. C., 1926
Pacific Coast: Goranson, R. W., 1924
Wrangell Mountains: Grantz, Arthur, Jones, D. L., and Lanphere, M. A., 1966
Yakutat area: Blackwelder, Eliot, 1909

Triassic

- Alaska: Martin, G. C., 1916; Reeside, J. B., Jr., 1957

Jurassic

- Alaska: Kirk, M. V., 1959
North America: Imlay, R. W., 1952

Cretaceous

- Alaska: Imlay, R. W., and Reeside, J. B., Jr., 1954; Martin, G. C., 1924

Cenozoic

- Middleton Island: Miller, D. J., 1953c

Tertiary

- Alaska: MacNeil, F. S., Wolfe, J. A., Miller, D. J., and Hopkins, D. M., 1961; Miller, D. J., MacNeil, F. S., and Wahrhaftig, Clyde, 1960; Smith, P. S., 1936a
Eagle River: Schaff, Ross, 1964
Gulf of Alaska, northeastern: Miller, D. J., 1957c

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Tertiary (Cont'd.)

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Miocene-Pliocene

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Neocene

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Copper River delta: Reimnitz, Erk, 1966, 1967

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Malaspina Glacier: Hartshorn, J. H., 1952

Muir Inlet: Goldthwait, R. P., 1966; Haselton, G. M., 1966

Pacific, northern: Karlstrom, T. N. V., 1966

Pleistocene

Alaska: Flint, R. F., 1947; Heusser, C. J., 1958; Karlstrom, T. N. V., 1959

Copper River Basin: Ferrians, O. J., Jr., and Schmoll, H. R., 1957

Knik-Eklutna area: Karlstrom, T. N. V., 1957a

Maybeso Creek: Swanston, D. N., 1967

North Pacific: Heusser, C. J., 1960

Prince of Wales Island: Swanston, D. N., 1969

St. Elias Mountains: Denton, G. H., and Stuiver, Minze, 1967

Holocene

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Glacier Bay: Goldthwait, R. P., 1966?

Juneau Icefield: Heusser, C. J., Schuster, R. L., and Gilkey, A., 1953

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Bering Sea and Gulf of Alaska: Shor, G. G., Jr., 1964

Faults

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Alaska, southeastern: Sainsbury, C. L., and Twenhofel, W. S., 1954; Twenhofel, W. S., and Sainsbury, C. L., 1958

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Faults (Cont'd.)

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- Fairweather: Page, Robert, 1969a, 1969b
- Montague Island: Plafker, George, 1967b
- Post-Paleozoic ages: Loney, R. A., Brew, D. A., and Lanphere, M. A., 1967
- Prince William Sound: Condon, W. H., 1965; Condon, W. H., and Cass, J. T., 1958
- Yakutat Bay: Martin, Lawrence, 1907
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