GEOLOGICAL LITERATURE ON THE NORTH SLOPE

OF

ALASKA

1969-1974

Compiled by

R. D. Carter, J. M. Denman and J. G. Pierpoint
United States Geological Survey, Menlo Park, Calif.

U. S. Geological Survey open-file report No. 75-384

1975

This report is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards and nomenclature.

Contents

	<u>Page</u>
Introduction	1
References	6
Index	61
Serial List	72

Illustrations

	<u>Page</u>
Figure 1. Index map of Alaska showing North Slope area	3
Figure 2. Index map of northern Alaska showing physiographic provinces and Naval Petroleum Reserve No. 4 in relation to area covered by literature cited . .	4
Figure 3. Generalized geologic map of northern Alaska	5

Geological Literature on the North Slope of Alaska

1969-1974

by

R. D. Carter, J. M. Denman, and J. G. Pierpoint
U. S. Geological Survey

This compilation is intended to account for the many new publications generated by the intense level of petroleum related activity on the North Slope. It is a supplement to the bibliography Geological Literature on the North Slope of Alaska by J. C. Maher and W. M. Trollman published by the American Association of Petroleum Geologists, Inc., Tulsa, Oklahoma, in 1970. A deliberate attempt has been made to follow closely the format of the latter publication. The termination date for publications in the 1970 report was November 1, 1969. The present compilation includes published material from that date to July 1, 1974.

Publications or articles cited are those concerned with the area north of 68° N latitude in Alaska (see figure 1). Oceanographic reports in the Chukchi and Beaufort Seas are included along with a few references to the adjacent Yukon Territory of Canada. Figure 2 shows the area covered by the literature cited. This includes three physiographic provinces; the Brooks Range, the Arctic Foothills, and the Arctic Coastal Plain. Naval Petroleum Reserve No. 4 which occupies about one-third of the area is included. The general geology of this region is shown on figure 3.

Special effort was made to include literature pertaining to petroleum geology, including the associated fields of stratigraphy, paleontology, structure, and geophysics. Articles on petroleum exploration and development published in petroleum trade journals are included on a selected basis. The literature on mineral-deposit geology is represented but no attempt has been made to include all professional and trade-journal articles dealing primarily with mining operations.

The simple one-subject index accompanying the references is meant to serve only as a guide in library search and only the title of the reference has been considered in the indexing. References are not cross-indexed, so titles containing two subjects have been classed arbitrarily under the first subject mentioned. For example, reports entitled "Structure and stratigraphy of - - -" are indexed under Structure but not under Stratigraphy. Reports entitled "Geology of - - -" and all reconnaissance reports have been listed under Areal Geology. Some reports listed under Areal Geology could be listed

equally well under Geomorphology or Stratigraphy. Many geophysical reports could be placed under Structure but only those whose title refers to structure are so listed; the remainder are indexed under Geophysics.

The compilers wish to acknowledge the assistance rendered by William G. Sanders, Anna Leon and Mary Tailleux of the U.S. Geological Survey, Menlo Park, California. Figures 1, 2 and 3 are reproduced by permission of the American Association of Petroleum Geologists, Tulsa, Oklahoma.

FIGURE 1. INDEX MAP OF ALASKA SHOWING NORTH SLOPE AREA

FIGURE 2: INDEX MAP OF NORTHERN ALASKA SHOWING PHYSIOGRAPHIC PROVINCES AND NAVAL PETROLEUM RESERVE NO. 4 IN RELATION TO AREA COVERED BY LITERATURE CITED

FIGURE 3 GENERALIZED GEOLOGIC MAP OF NORTHERN ALASKA

References

- Adams, W. D. , 1972, Developments in Alaska in 1971: Am. Assoc. Petroleum Geologists Bull. , v. 56, no. 7, p. 1175-1187.
- Addicott, W. O. , 1971, Tertiary marine mollusks of Alaska -- an annotated bibliography: U.S. Geol. Survey Bull. 1343, 30 p.
- Adkison, W. L. , and Brosge, M. M. , eds. , 1970, Proceedings of the geological seminar on the North Slope of Alaska: Am. Assoc. Petroleum Geologists, Pacific Sec. , 201 p.
- Alaska Division of Geological Survey , 1970, Report for the year 1970: College, Alaska, 86 p.
- _____ 1972a, Annual report 1971: Anchorage, Alaska, 109 p.
- _____ 1972b, The status of mineral resource information on the major land withdrawals of the Alaska Native Claims Settlement Act of 1971: U.S. Geol. Survey open-file report, 164 p.
- Alaska Division of Geological and Geophysical Surveys, 1970, Annual report 1970: Alaska Div. of Geol. Survey, p. 1-1 to 5-12.
- _____ 1973, Annual report 1972: Anchorage, Alaska, 57 p.
- Alaska Division of Mines and Geology, 1969 , Report for the year 1969: College, Alaska, 68 p.
- Alaska Division of Oil and Gas, 1973a, Annual report 1972: Alaska Div. Oil and Gas, 26 p.
- _____ 1973b, Statistical report for the year 1972: Alaska Div. Oil and Gas, 192 p.

- Alaska Division of Oil and Gas (with H. K. van Poolen and Associates, Inc.), 1974, In place volumetric determination of reservoir fluids, Sadlerochit Formation, Prudhoe Bay field: Report prepared for State of Alaska, Dept. of Nat. Resources, Anchorage, Alaska, 41 p.
- Alaska Map Service, 1974, Catalog of maps and services for the petroleum industry: Anchorage, Alaska, Alaska Map Service, 18 p.
- Alaska Petroleum and Industrial Directory, 1974, Annual Alaska Petroleum and industrial directory: Anchorage, Alaska, Petroleum Publications, Inc.
- Alaska Scouting Service, 1955-1974, [Annual] Catalog of services available to the oil and gas industry, Alaska: Anchorage, Alaska Petroleum Publications, Inc.
- Albers, J. P., Carter, M. D., Clark, A. L., Coury, A. G., and Schweinfurth, S. P., 1973, Summary petroleum and selected mineral statistics for 120 countries including offshore areas: U.S. Geol. Survey Prof. Paper 817, 149 p.
- Alwyne, Thomas, 1969, Oil in Arctic Alaska: New Scientist, v. 41, no. 641, p. 620-622.
- Anderson, D. M., and Brown, Jerry, 1970, Bentonite landslides [reply to discussion by D. B. Prior and C. Ho of 1969 paper]: Science, v. 167, no. 3920, p. 1015.
- Anderson, G. W., 1971, Near gauge holes through permafrost: Oil and Gas Jour., v. 69, no. 38, p. 128, 130, 134, 136, 138, 141-142.

- Anderson, V. H., 1970, Sea ice pressure ridge study -- an airphoto analysis: *Photogrammetria*, v. 26, no. 5-6, p. 201-228.
- Andreyev, B. A., and others, 1968, The history of geological evolution of northeastern Asia and Alaska, in *Internat. Geol. Cong.*, 23d, Prague, 1968, Proc., Sec. 3, Orogenic belts: Prague, Academia, p. 299-301.
- Anonymous, 1973, List of reports issued by the Division of Geological and Geophysical Surveys: Alaska Div. Geol. Geophys. Survey, Inf. Circ., no. 11, 9 p.
- Arctic Institute of North America, 1951-1971, Arctic bibliography: McGill-Queens Univ. Press, Montreal and London, v. 1-15.
- Arkley, R. J., and Gersper, P. L., 1972, Tundra soils; II, correlations among soil and other ecosystem components of the U.S.I.B.P. Intensive Study Site, Barrow, Alaska [abs.], in *Agronomy Abstracts*, p. 116-117: Am. Soc. Agronomy Abstracts, Madison, Wisconsin.
- Armstrong, A. K., 1970a, Carbonate facies and the lithostrotionoid corals of the Mississippian Kogruek Formation, DeLong Mountains, northwestern Alaska: U.S. Geol. Survey Prof. Paper 664, 38 p.
- _____, 1970b, Mississippian dolomites from the Lisburne Group, Killik River, Mount Bupto region, Brooks Range, Alaska: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 2, p. 251-264; 1972, in *Carbonate rocks I, classifications, dolomite, dolomitization*: Am. Assoc. Petroleum Geologists Repr. Series, no. 4, p. 224-237.

- Armstrong, A. K., 1970c, Foraminifera and rugose coral zones of Mississippian-Pennsylvanian Lisburne Group, Brooks Range, Arctic Alaska [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 3, p. 559.
- _____ 1971, Pennsylvanian carbonates, paleontology and stratigraphy, north flank, eastern Brooks Range, Arctic Alaska: U.S. Geol. Survey open-file report, 25 p.
- _____ 1972a, Biostratigraphy of Mississippian lithostrotionoid corals, Lisburne Group, Arctic Alaska: U.S. Geol. Survey Prof. Paper, no. 743-A, 28 p.
- _____ 1972b, Pennsylvanian carbonates, paleoecology, and rugose colonial corals, north flank, eastern Brooks Range, arctic Alaska: U.S. Geol. Survey Prof. Paper, no. 747, 19 p.
- _____ 1973a, Lithostrotion reiseri n. sp., a cerioid colonial coral from Meramec-age beds, Lisburne Group, arctic Alaska: U.S. Geol. Survey Research Jour., v. 1, no. 2, p. 137-145.
- _____ 1973b, Carboniferous colonial rugose corals, biostratigraphy, and paleoecology, Lisburne Group, arctic Alaska [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 57, no. 4, p. 768.
- _____ 1974, Carboniferous carbonate depositional models, preliminary lithofacies and paleotectonic maps, arctic Alaska: Am. Assoc. Petroleum Geologists Bull., v. 58, no. 4, p. 621-645.

- Armstrong, A. K., and Dutro, J. T., Jr., 1969, Carbonate facies and coral zonation, Mississippian Kogruek Formation, Lisburne Group, DeLong Mountains, Brooks Range, northwestern Alaska [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 53, no. 3, p. 704.
- Armstrong, A. K., and Mamet, B. L., 1970, Biostratigraphy and dolomite porosity trends of the Lisburne Group, in Geological seminar of the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. N1-N15; discussion, p. N16.
- _____ 1974, Carboniferous biostratigraphy, Prudhoe Bay State 1 to northeastern Brooks Range, Arctic Alaska: Am. Assoc. Petroleum Geologists Bull., v. 58, no. 4, p. 646-660.
- Armstrong, A. K., Mamet, B. L., and Dutro, J. T., Jr., 1970, Foraminiferal zonation and carbonate facies of Carboniferous (Mississippian and Pennsylvanian) Lisburne Group, central and eastern Brooks Range, Arctic Alaska: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 5, p. 687-698; 1969, U.S. Geol. Survey open-file report, 26 p.
- _____ 1971, Lisburne Group, Cape Lewis-Niak Creek, northwestern Alaska, in Geological Survey Research 1971: U.S. Geol. Survey Prof. Paper 750-B, p. B23-B34.
- Averitt, Paul, 1968, Total estimated remaining coal resources of the United States, Jan. 1, 1967: U.S. Geol. Survey open-file report, 1 p.

- Averitt, Paul, 1969, Coal Resources of the United States, Jan. 1, 1967:
U.S. Geol. Survey Prof. Paper 1275, 116 p.
- Averitt, Paul, and Carter, M. D., 1970, Selected sources of information
on United States and world energy resources; an annotated bibliography:
U.S. Geol. Survey Circ. 641, 21 p.
- Averitt, Paul, and Lopez, L., 1972, Bibliography and index of U.S.
Geological Survey publications relating to coal, 1882-1970: U.S.
Geol. Survey Bull. 1377, 173 p.
- Baker, J. H., Beetem, W. A., and Wahlberg, J. S., 1964, Absorption
equilibria between earth materials and radionuclides, Cape
Thompson, Alaska: U.S. Geol. Survey open-file report, 30 p.
- Bamber, E. W., and Waterhouse, J. B., 1971, Carboniferous and Permian
stratigraphy and paleontology, northern Yukon Territory, Canada:
Alberta Soc. Petroleum Geologists Bull., v. 19, no. 1, p. 29-250.
- Barnes, D. F., 1968, Progress on Alaskan gravity surveys (abs.): Am.
Geophys. Union Trans., v. 49, no. 4, p. 665.
- _____ 1969a, Lack of isostatic adjustment on two Alaskan continental
margins (sum.): Geol. Soc. America Abs. with programs 1969,
pt. 7, p. 254-256.
- _____ 1969b, Progress on a gravity map of Alaska, in Symposium on
gravity surveys in western North America: Am. Geophys. Union
Trans., v. 50, no. 10, p. 550-552.
- _____ 1970, Gravity and other regional data from northern Alaska, in
Geological seminar on the North Slope of Alaska, Palo Alto, Calif.,
1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists
Pacific Sec., p. I-1-I-19; discussion, p. I-20.

Barnes, D. F. , 1972, Notes on the processing and presentation of U.S. Geological Survey Alaskan gravity data: U.S. Geol. Survey open-file report, 25 p.

Barnes, D. F. , and Tailleux, I. L. , 1970, Preliminary interpretation of geophysical data from the lower Noatak River basin, Alaska: U.S. Geol. Survey open-file report, 24 p.

Barnes, P. W. , 1971, Sedimentary processes of the northwest coast of Alaska [abs.]: Natl. Coastal Shallow Water Res. Conf. , Abs. , no. 2 , p. 264.

Barnes, P. W. , and Leong, Kam, 1971, Distribution of copper, lead, zinc, mercury, and arsenic in the surface sediments off the coast of northwestern Alaska: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-316.

Barnes, P. W. , and Reimnitz, Erk, 1972, River overflow onto the sea ice off the northern coast of Alaska, spring 1972 [abs.]: Am. Geophys. Union Trans. , v. 53, no. 11, p. 1020.

_____, 1973, New insights into the influence of ice on the coastal marine environment of the Beaufort Sea, Alaska: NASA Spec. Pub. SP-327, p. 1307-1313.

Barnes, P. W. , Reimnitz, Erk, Gustafson, C. W. , and Larsen, B. R. , 1973, U.S. Geological Survey marine geologic studies in the Beaufort Sea off northern Alaska, 1970 through 1972; data type and location: U.S. Geol. Survey open-file report, 38 p.

- Barsdate, R. J., 1968, Pathways of trace elements in arctic lake ecosystems (progress report): Inst. of Marine Sci., University of Alaska, College, Alaska, p. 25-31.
- _____, 1971, Pathways of trace elements in arctic lake ecosystems (progress report): Inst. of Marine Sci., University of Alaska, College, Alaska, 56 p.
- Basye, Dale, 1969a, Secrecy shroud lifts on giant Prudhoe Bay field: Oil and Gas Jour., v. 67, no. 47, p. 49-54.
- _____, 1969b, Winter drilling campaign dragging on North Slope: Oil and Gas Jour., v. 67, no. 50, p. 27-30.
- Berg, H. C., 1970, Alaska's mineral resources -- past, present, and future: Canadian Mining Jour., v. 91, no. 4, p. 53-56.
- Bergquist, H. R., 1970, Foraminiferal biostratigraphy of Mesozoic of northern Alaska [abs.], in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v 54, no. 12, p. 2468-2469.
- Berkland, J. O., 1968, Abandoned glacier-margin drainage channels (coulees) -- Brooks Range, Alaska [abs.]: Geol. Soc. America Spec. Paper 115, p. 312-313.
- Black, R. F., 1969, Geology, especially geomorphology, of northern Alaska, in U.S. Naval Arctic Research Lab. Dedication Symposium, Fairbanks, Alaska, 1969, Proc.: Arctic, v. 22, no. 3, p. 283-299.
- Bleakley, W. B., 1970, North Slope well sparks innovations: Oil and Gas Jour., v. 68, no. 16, p. 104-116.

- Bleakley, W. B., 1971, North Slope operators tackle production problems: Oil and Gas Jour., v. 69, no. 43, p. 89-92.
- Bogdanov, N. A., and Geodekyan, A. A., 1970, Nouyye po tektonike i neftegazonosnosti severnoy Alyaski [New data on tectonics and hydrocarbon production in northern Alaska] [abs.]: Moskov. Obshch. Ispytateley Prirody Byull., Otdel Geol., v. 45, no. 4, p. 152-153.
- Bogush, E. I., and Yuferev, O. V., 1970, Carboniferous deposits of northeastern Asia, Alaska, and Yukon [abs.], in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2470.
- Boneham, R. F., and Tailleux, I. L., 1972, Leiosphaeridia (Acritarcha) in the Mesozoic oil shales of northern Alaska: U.S. Geol. Survey Prof. Paper, no. 800-B, p. B17-B19.
- Bottage, R. G., 1974, Potential mineral resources in selected D.2 lands: U.S. Bur. Mines open-file report 9-24, 55 p.
- Breslau, L. R., et al, 1972, The underwater shape of a grounded ice island off Prudhoe Bay, Alaska: 1st Internat. Norwegian Tech. Univ. Port and Ocean Eng. Under Arctic Cond. Conf. Proc., v. 1, p. 119-139. College, Alaska.
- Brew, D. A., 1974, Environmental impact analysis, the example of the proposed trans-Alaska pipeline: U.S. Geol. Survey Circ. 695, 16 p.

- Brewer, M. C., 1972, Environmental problems associated with the North Slope exploration and production [abs.]: Soc. Explor. Geophys., Ann. Internat. Mtg., no. 42, p. 15-16; 1973, Geophysics, v. 38, no. 1, p. 165.
- Brice, James, 1971, Measurement of lateral erosion at proposed river crossing sites of the Alaska pipeline: U.S. Geol. Survey open-file report, 39 p.
- Brobst, D. A., and Pratt, W. P., eds., 1973, United States mineral resources: U.S. Geol. Survey Prof. Paper 820, 722 p.
- Brooks, L. D., 1973, Ice scour on the northern continental shelf of Alaska: Offshore Tech. Conf., Prepr., no. 5, v. 1, p. 763-766.
- Brosge, W. P., Brabb, E. E., and King, E. R., 1970, Geologic interpretation of reconnaissance aeromagnetic survey of northeastern Alaska: U.S. Geol. Survey Bull. 1271-F, p. F1-F14.
- Brosge, W. P., and Dutro, J. T., Jr., 1973, Paleozoic rocks of northern and central Alaska, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 361-375; 1970, abs., in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2473.
- Brosge, W. P., Reiser, H. N., and Estland, M. B., 1970, Chemical analyses of stream-sediment samples from the Sadlerochit-Jago Rivers area, Mt. Michelson and Demarcation Point quadrangles, Alaska: U.S. Geol. Survey open-file report, 6 p.

- Brosge, W. P., and Tailleux, I. L., 1969, Isopach maps of upper Paleozoic and Mesozoic rocks, northern Alaska: U.S. Geol. Survey open-file report, 10 p.
- _____, 1970a, Depositional history of northern Alaska, in Geological seminar on the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. D1-D18; discussion, p. D18; abs., in Am. Assoc. Petroleum Geologists Bull., v. 54, no. 5, p. 837-838.
- _____, 1970b, Tectonic history of northern Alaska, in Geological seminar on the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. E1-E19; discussion, p. E20.
- _____, 1971, Northern Alaska petroleum province, in Future petroleum provinces of the United States -- their geology and potential: Am. Assoc. Petroleum Geologists Mem. 15, v. 1, p. 68-99.
- Brower, K., 1971, Earth and the great weather -- the Brooks Range: Friends of the Earth, 188 p., McCall, San Francisco.
- Brown, Jerry, 1969a, Ionic concentration gradients in permafrost, Barrow, Alaska: U.S. Army Corps Engineers Cold Regions Research and Eng. Lab. Research Rept. 272, 25 p.
- _____, 1969b, Soil properties developed on the complex tundra relief of northern Alaska: Biul. Peryglacjalny, no. 10, p. 152-167.
- _____, 1969c, Soils of the Okpilak River region, Alaska [with French abs.], in The periglacial environment, past and present (T. L. Pewe, ed.) -- Internat. Assoc. Quaternary Research, 7th Cong., Alaska, 1965: Montreal, Quebec, McGill-Queen's Univ. Press, p. 93-128.

- Burrell, D. C., 1971a, Arctic Ocean suspended sediment distributions and characterization, in Trace metal associations in sub-arctic and arctic marine environments: Inst. of Marine Sci., University of Alaska, College, Alaska, p. 103-107.
- _____, 1971b, Hydrography and trace metal distributions of Arctic Ocean water masses, in Trace metal associations in sub-arctic and arctic marine environments: Inst. of Marine Sci., University of Alaska, College, Alaska, p. 103-107.
- Burrell, D. C., and others, 1969, Direct spectrophotometric determination of zinc in summer Chukchi sea waters: Inst. of Marine Sci., University of Alaska, College, Alaska, p. II-8 to II-18.
- _____, 1970, Beaufort Sea environmental data: 1968-1969: Inst. of Marine Sci., University of Alaska, College, Alaska, 274 p.
- Cady, J. W., Ruppel, B. D., McHendrie, A. G., and Deas, H. S., 1973, Seismic, magnetic and gravity profiles — Chukchi Sea and adjacent Arctic Ocean, 1972; Part 2, Magnetic and gravity profiles: U.S. Geol. Survey open-file report, 29 sheets.
- Calderon-Berti, Humberto, 1969, La exploracion y produccion petrolera en Alaska (Oil exploration and production in Alaska): Soc. Venez. Geol., Bol., V. 4, No. 2, p. 7-14.
- Callahan, J. E., 1971, Geology and coal resources of T. 6 S., R. 51 W., unsurveyed, Umiat principal meridian in the Cape Beaufort coal field, northwestern Alaska: U.S. Geol. Survey open-file report, 18 p.

- Callahan, J. E., Wanek, A. A., Schell, E. M., Zeller, H. D., and
Rohrer, W. L., 1969, Geology of T. 1 S., R. 44 W., unsurveyed,
Uniat principal meridian, in the Kukpowruk coal field, Alaska:
U.S. Geol. Survey open-file report, 19 p.
- Carson, C. E., 1968, Radiocarbon dating of lacustrine strands in arctic
Alaska [with French and Russian abs.]: Arctic, v. 21, no. 1,
p. 12-26.
- Carter, Claire, ed., 1974, United States Geological Survey Alaska pro-
gram, 1974: U.S. Geol. Survey Circ. 700, 63 p.
- Childers, J. M., 1970a, Flood frequency in Alaska: U.S. Geol. Survey
open-file report, 30 p.
- _____ 1970b, A proposed streamflow-data program for Alaska: U.S.
Geol. Survey open-file report, 55 p.
- _____ 1972a, Channel erosion surveys along proposed TAPS route,
Alaska, July 1971: U.S. Geol. Survey Water Resources-Inv., 79 p.
- _____ 1972b, Flood surveys along proposed TAPS route, Alaska, July
1971: U.S. Geol. Survey open-file report, 16 p.
- Childers, J. M., Sloan, C. E., and Meckel, J. P., 1973, Hydrologic
reconnaissance of streams and springs in eastern Brooks Range,
Alaska -- July 1972: U.S. Geol. Survey open-file report, 25 p.
- Churkin, Michael, Jr., 1969a, Paleozoic tectonic history of the Arctic
basin north of Alaska: Science, v. 165, no. 3893, p. 549-555.
- _____ 1969b, Paleozoic tectonic history of Alaska and the origin of
the Arctic basin [abs.]: Houston Geol. Soc. Bull., v. 11, no.
8, p. 35.

Churkin, Michael, Jr., 1970a, Correlation of fold belts of Alaska, Canada, and Siberia [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 5, p. 841.

_____ 1970b, Fold belts of Alaska and Siberia and drift between North America and Asia, in Geological seminar on the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. G1-G14; discussion, p. G15-G17.

_____ 1973a, Geologic concepts of Arctic Ocean basin, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 485-499.

_____ 1973b, Paleozoic and Precambrian rocks of Alaska and their role in its structural evolution: U.S. Geol. Survey Prof. Paper, no. 740, 64 p.

Churkin, Michael, Jr., and Brabb, E. E., 1969, Prudhoe Bay discovery forces a look at other Alaskan petroliferous areas: Oil and Gas Jour., Nov. 17, p. 104-110.

Clark, A. L., Berg, H. C., Cobb, E. H., Eberlein, G. D., MacKevett, E. M., Jr., and Miller, T. P., 1972, Metal provinces of Alaska: U.S. Geol. Survey open-file report, 3 p., 3 maps, scale 1:2,500,000.

Clark, D. L., 1973, Progress in Arctic Ocean sediment studies [abs.]: Am. Assoc. Petroleum Geologists Bull., v. 57, no. 4, p. 773.

Cobb, E. H., compiler, 1972a, Metallic mineral resources map of the DeLong Mountains quadrangle, Alaska: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-404, scale 1:250,000.

_____ 1972b, Metallic mineral resources map of the Mt. Michelson quadrangle, Alaska: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-462, scale 1:250,000.

_____ 1973a, Index of metallic mineral deposits of Alaska compiled from reports in open files of the U.S. Geol. Survey and U.S. Bureau of Mines through 1972: U.S. Geol. Survey open-file report, 87 p.

_____ 1973b, Placer deposits of Alaska (Table Mt. quad.): U.S. Geol. Survey Bull. 1374, 213 p.

_____ 1974a, Geological Survey open-file reports of Alaska indexed by quadrangle: U.S. Geol. Survey open-file report, 116 p.

_____ 1974b, Synopsis of the mineral resources and geology of Alaska: U.S. Geol. Survey Bull. 1307, 53 p.

Cohee, G. V., 1970, Stratigraphic nomenclature -- principles and procedures, in Geological seminar on the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. H1-H3.

- Coleman, H. J., Dooley, J. E., Hirsch, D. E., and Thompson, C. J.,
1972, Compositional studies of a high boiling 370°-535° C distillate from Prudhoe Bay, Alaska, crude oil: Am. Chem. Soc. Petrol. Chem. Div. Preprints, v. 17, no. 1, p. A75-A97.
- Conwell, C. N., 1972a, Alaskan Coals: Soc. Mining Engineers Trans., v. 252, no. 3, p. 279-282.
- _____ 1972b, Alaskan coals may prove a big plus in future exports picture: Mining Eng., v. 24, No. 10, p. 82-84.
- Detterman, R. L., 1970a, Analysis of Shublik Formation rocks from Mt. Michelson quadrangle, Alaska: U.S. Geol. Survey open-file report, 4 sheets.
- _____ 1970b, Early Holocene warm interval in northern Alaska: Arctic, v. 23, no. 2, p. 130-132.
- _____ 1970c, Sedimentary history of the Sadlerochit and Shublik Formations in northeastern Alaska, in Geological seminar of the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. 01-013.
- _____ 1971, Arctic Mesozoic correlation chart: U.S. Geol. Survey open-file report.
- _____ 1973, Mesozoic sequence in Arctic Alaska, in Arctic Geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 376-387; 1970, abs. in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2477.

- Dole, H. M., 1973, Challenge of resource development and environmental protection in the Arctic, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 3-9.
- Duguid, J. O., 1971, Thin gravel deposits on wave-eroded cliffs near Barrow, Alaska: Arctic, v. 24, no. 4, p. 304-306.
- Dutro, J. T., Jr., 1960, Correlation chart of Paleozoic rocks in Alaska: U.S. Geol. Survey open-file chart, 1 sheet.
- _____, 1970, Pre-carboniferous carbonate rocks, northeastern Alaska, in Geological seminar of the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. M1-M7; discussion, p. M8.
- Dutro, J. T., Jr., and Armstrong, A. K., 1970, Biostratigraphy of carboniferous of northern Alaska [abs.], in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2478.
- Dutro, J. T., Jr., Brosge, W. P., and Reiser, H. N., 1972, Significance of recently discovered Cambrian fossils and reinterpretation of Neruokpuk Formation, northeastern Alaska: Am. Assoc. Petroleum Geologists Bull., v. 56, no. 4, p. 808-815.
- Dutro, J. T., Jr., Reiser, H. N., Detterman, R. L., and Brosge, W. P., 1971, Early Paleozoic fossils in the Neruokpuk Formation, northeastern Alaska: U.S. Geol. Survey open-file report, 5 p.
- Dutro, J. T., Jr., and Saldukas, R. B., 1973, Permian paleogeography of the Arctic: Jour. of Research of the U.S. Geol. Survey, v. 1, no. 5, p. 501-507.

- Dygas, J. A., Burrell, D. C., and Naidu, A. S., 1973, Sediment transport and shoreline changes along Alaskan arctic coast (abs.): Am. Assoc. Petroleum Geologists Bull., v. 57, no. 4, p. 776.
- Eakins, G. R., 1969, Uranium in Alaska: Div. of Mines and Geol., Alaska Dept. of Natural Resources, 50 p.
- Echols, R. J., Creager, J. S., Holmes, M. L., and McManus, D. A., 1969, Holocene oceanography of Chukchi Sea (abs.): Am. Assoc. Petroleum Geologists Bull., v. 53, no. 3, p. 716.
- Fackler, W. C., (Chm. North Slope Stratigraphic Committee), 1971, West to East Stratigraphic correlation section Pt. Barrow to Ignek Valley, Arctic North Slope, Alaska: The Alaska Geol. Soc., Anchorage, Alaska.
- Fackler, W. C., et al., 1972, State of Alaska; Dept. of Natural resources, Division of Geological Survey, Annual Report, 1971: Alaska Div. Geol. Survey, 109 p.
- Ferrians, O. J., Jr., 1971a, Preliminary engineering geologic maps of the proposed trans-Alaska pipeline route, Philip Smith Mountains quadrangle: U.S. Geol. Survey open-file report, 2 p.
- _____ 1971b, Preliminary engineering geologic maps of the proposed trans-Alaska pipeline route, Beechey Point and Sagavanirktok quadrangles: U.S. Geological Survey open-file report.
- Ferrians, O. J., Jr. and Kachadoorian, Reuben, 1973, Permafrost-related engineering problems and the trans-Alaska pipeline (abs.) Cordilleran section, 69th annual meeting: Geol. Soc. America, Abs. with Programs, v. 5, No. 1, p. 41-42.

- Feulner, P. J., Childers, J. M., and Norman, V. W., 1971, Water resources of Alaska: U.S. Geol. Survey open-file report, 130 p.
- Fischer, W. A., and Lathram, E. H., 1973, Concealed structures in arctic Alaska identified on ERTS-1 imagery: Oil and Gas Jour., v. 71, no. 22, p. 97-102.
- Forbes, R. B., Hamilton, Thomas, Tailleux, I. L. et al, 1971, Tectonic implications of blueschist facies metamorphic terranes in Alaska: Nature; Phys. Sci., v. 234, no. 49, p. 106-108; 1970, abs. in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2480.
- Freeland, G. L., and Dietz, R. S., 1973, Rotation history of Alaskan tectonic blocks: Tectonophysics. v. 18, nos. 3-4, p. 379-389.
- Freschnecht, F. C., and Stanley, W. D., 1970, Airborne and ground electrical resistivity studies along proposed trans-Alaska pipeline system (TAPSO) route (abs.), in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2481.
- Fritts, C. E., and Brown, M. E., compilers, 1971a, Bibliography of Alaskan geology 1831-1918: Alaska Div. Geol. Survey, 88 p., College, Alaska.
- _____ 1971b, Bibliography of Alaskan geology 1919-1949: Alaska Div. Geol. Survey, 90p., College, Alaska.

- Fritts, C. E., and Brown, M. E., compilers, 1971c, Bibliography of Alaskan geology 1950-1959: Alaska Div. Geol. Survey, 82 p., College, Alaska.
- _____, 1971d, Bibliography of Alaskan geology 1960-1964: Alaska Div. Geol. Survey, 81 p., College, Alaska.
- Fritts, C. E., and Tuell, E. J., 1972, Bibliography of Alaska geology 1965-1968: Alaska Div. Geol. Survey, 112 p., College, Alaska.
- Fritts, C. E., Zesiger, E. A., Tuell, E. J., et al., 1972, Bibliography of Alaskan geology 1969-1971: Alaska Div. Geol. Survey, 94 p., College, Alaska.
- Furbinger, W., and Walker, J., 1973, Structure and mineralogy of a sediment core from the Colville River delta, Alaska: Polarforschung, v. 44, no. 1, p. 79-84.
- Gesper, P. L., and Arkley, R. J., 1972, Tundra Soils; I, seasonal dynamics at the U.S.I.B.P. Intensive Study Site, Barrow, Alaska (abs.), in Agronomy Abstracts: Am. Soc. Agronomy, p. 118.
- Gibson, Ray, 1968, Giant oil field found on Alaska's Arctic slope: World Petroleum, v. 39, no. 10, p. 30, 63.
- Gordon, M., Jr., 1971, Goniatiter americanus n. sp., a late Meramec (Mississippian) index fossil, in Geological Survey research 1971: U.S. Geol. Survey Prof. Paper 750-C, p. C39-C43.
- Grant, R. E., 1971, Taxonomy and autecology of two Arctic Permian rhynchonellid brachiopods, in Paleozoic perspectives, a paleontological tribute to G. Arthur Cooper: Smithsonian Contr. Paleobiology, no. 3, p. 313-345.

- Grantz, A., Hanna, W. F., and Wallace, S. L., 1971, Chukchi Sea seismic reflection profiles and magnetic data, 1970, between northern Alaska and Herald Island: U.S. Geol. Survey open-file report, 34 p.
- _____, 1972, Chukchi Sea seismic reflection and magnetic profiles, 1971, between northern Alaska and Herald Island: U.S. Geol. Survey open-file report, 40 p.
- Grantz, Arthur, Hanna, W. F., and Wolf, S. C., 1970, Chukchi Sea seismic reflection and magnetic profiles 1969, between northern Alaska and international date line: U.S. Geol. Survey open-file report.
- Grantz, A., Holmes, M. L., Riley, D. C., and Wallace, S. L., 1972, Seismic, magnetic, and gravity profiles -- Chukchi Sea and adjacent Arctic Ocean, 1972, pt. 1, seismic reflection profiles: U.S. Geol. Survey open-file report, 19 p.
- Grantz, Arthur, McHendrie, A. G., Nilsen, T. H., and Yorath, C. J., 1974, Seismic reflection profiles on the continental shelf and slope between Bering Strait and Barrow, Alaska, and Mackenzie Bay, Canada: U.S. Geol. Survey open-file report, scale 1:1,000,000.
- Grantz, Arthur, McHendrie, A. G., Nilsen, T. H., Yorath, C. J., and Phillips, J. D., 1974, Digital magnetic tapes of single channel seismic reflection profiles on the continental shelf and slope between Bering Strait and Barrow, Alaska: U.S. Geol. Survey report PB-232 244.

- Grantz, Arthur, Wolf, S. C., Breslau, Lloyd, Johnson, T. C., and Hanna, W. F., 1970, Reconnaissance geology of the Chukchi Sea as determined by acoustic and magnetic profiling, in Geological seminar on the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. F1-F28.
- Green, H. G., 1972, Sedimentary features and nearshore processes of arctic and sub-arctic beaches: Am. Assoc. Petroleum Geologists Bull., v. 56, no. 3, p. 620.
- Gryc, George, 1970a, Geologic and geophysical investigations by the U.S. Geological Survey in Alaska in 1969: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 6, p. 1079-1080.
- _____ 1970b, Geologic framework of the North Slope petroleum province (abs.), in Alaska Sci. Conf., 20th, College, 1969, Proc.: Sci. Alaska 1969, p. 46-47.
- _____ 1970c, Geologic research in the Alaskan Arctic environment, in the use of remote sensing ... of natural resources of Alaska: Juneau, Alaska, Dept. of Econ. Devel., p. 48-50.
- _____ 1970d, History of petroleum exploration in northern Alaska, in Geological seminar on the North Slope of Alaska, Palo Alto, Calif., 1970, Proc: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. C1-C8; discussion, p. C9-C10.

- Gryc, George, 1971a, Alaska's possible petroleum provinces: UMR Jour., no. 2, p. 11-17.
- _____ 1971b, Geologic and geophysical investigations by the U.S. Geological Survey in Alaska in 1970: Am. Assoc. Petroleum Geologists Bull., v. 55, no. 7, p. 951-952.
- _____ 1971c, Geologic and geophysical investigations by U.S. Geological Survey in Alaska in 1971: Am. Assoc. Petroleum Geologists Bull., v. 56, no. 7, p. 1179-1180.
- _____ 1971d, Summary of potential petroleum of Region 1 (Alaska and Hawaii) -- Alaska, in Future Petroleum Provinces of the United States -- their geology and potential: Am. Assoc. Petroleum Geologists Mem. 15, v. 1, p. 55-67.
- Hall, J. K., 1973, Geophysical evidence for ancient seafloor spreading from Alpha Cordillera and Mendeleev ridge, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 542-561.
- Hamilton, Warren, 1970, Continental drift in Arctic (abs.): Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2486;
- 1969, in Geol. Soc. America Spec. Paper 121, p. 510.
- Hanna, W. F., Ruppel, B. D., McHendrie, A. G., and Sikora, R. F., 1974, Residual magnetic anomaly and free-air gravity anomaly profiles, 1973, on continental shelf and slope between Bering Strait and Barrow, Alaska, and MacKenzie Bay, Canada: U.S. Geol. Survey open-file report, scale 1:1,000,000.
- Harman, R. A., and Cooper, S. C., 1969, Distribution of Foraminifera on Alaskan and Siberian Continental Shelves (abs.): Am. Assoc. Petroleum Geologists Bull., v. 53, no. 2, p. 466.

- Harrison, C. R., Dobey, P. L., Gryc, George, et al, 1973, Developments in Alaska in 1972: Am. Assoc. Petroleum Geologists Bull., v. 57, no. 8, p. 1406-1420.
- Hartman, D. C., 1973, Geology and mineral evaluation of the Arctic National Wildlife Range, northeast Alaska (revised): Alaska Div. Geol. Geophys. Surveys open-file report 22, 16 p.
- Hartman, C. W., and Carlson, R. F., 1970, Bibliography of arctic water resources: Alaska Univ. Inst. Water Resources Rept. 1WR-11, 344 p.
- Hartwell, A. D., 1973, Classification and relief characteristics of northern Alaska's coastal zone: Arctic, v. 26, no. 3, p. 244-252.
- Haynes, J. B., 1972, North Slope oil; physical and political problems: Prof. Geographer, v. 24, no. 1, p. 17-22.
- Herman, Y., 1970, Arctic paleo-oceanography in late Cenozoic time: Science, v. 169, p. 474-477.
- Hessler, V. P., 1970, Telluric, geomagnetic, and auroral activity on arctic drifting stations and at Point Barrow: Geophysical Inst., Univ. of Alaska, College, Alaska, 169 p.
- Higgs, N. B., 1972, Environmental and engineering geology along the trans-Alaska pipeline (abs.): Assoc. Eng. Geol., Ann. Mtg., Program Abs. No. 15, p. 26.
- Hill, T. P., and Werner, M. A., 1972, Chemical composition of sedimentary rocks in Alaska, Idaho, Oregon, and Washington: U.S. Geol. Survey Prof. Paper 771, 319 p.

- Hoskin, C. M., and others, 1969, Size fractionation data for sediments of the Alaskan arctic shelf: Inst. of Marine Sci., University of Alaska, College, Alaska, 12 p.
- Howitt, Frank, 1971, Permafrost geology at Prudhoe Bay: World Petroleum -- v. 42, no. 8, p. 28-32, 37-38.
- Howitt, Frank, and Clegg, M. W., 1970, Permafrost in Prudhoe Bay field -- geology and physical characteristics (abs.), in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2487.
- Hume, M. D., Schalk, Marshall, and Hume, P. W., 1972, Short-term climate changes and coastal erosion, Barrow, Alaska: Arctic, v. 25, no. 4, p. 272-278.
- Imlay, R. W., and Detterman, R. L., 1973, Jurassic paleobiogeography of Alaska: U.S. Geol. Survey Prof. Paper 801, 34 p.
- Imlay, R. W., 1953, Callovian (Jurassic) ammonites from the United States and Alaska, Part 2, Alaska Peninsula and Cook Inlet regions: U.S. Geol. Survey Prof. Paper 249-B, p. 41-108.
- Ion, D. C., 1973, Arctic oil and the World -- one perspective, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 617-623; 1970, abs. in Internat. Arctic Geology Symposium, 2d San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2487.
- Johnson, T. C., and Breslau, L. R., 1971, Geological results of a wide angle reflection survey using sonobuoys in the southern Chukchi Sea: Marine Geology, Elsevier Pub. Co., Amsterdam, v. 10, No. 4, p. 281-290.

- Joint Federal State Land Use Planning Commission for Alaska, 1973,
Major ecosystems of Alaska: Map, printed by U.S. Geological
Survey.
- Jones, S. H., 1972, (1973), Surface-water investigations at Barrow,
Alaska: U.S. Geol. Survey open-file rept., 16 p.
- Journaux, Andre, 1970, La plaine du gel eternal en Alaska (The perma-
frost plain of Alaska (with English, German and Russian abs.):
Sci. Prog. Decouverte, no. 3422, p. 37043.
- Kelley, T. E., 1971, Prudhoe bay; greatest geologic explosion of our
time(abs.): Am. Assoc. Petroleum Geologists Bull., v. 55, no. 2,
p. 346.
- King, R. E., 1973, Beaufort Sea petroleum potential appears good:
World Oil, v. 176, no. 6, p. 105-107.
- Kinney, P. J., and others, 1970, Chukchi Sea data report -- USCGC
Northwind, July-August 1968; USCGC Staten Island, July-August
1969: Inst. of Marine Sci., University of Alaska, College,
Alaska, 305 p.
- _____, 1972, Baseline data study of the Alaskan arctic aquatic
environment: Inst. of Marine Sci., University of Alaska,
College, Alaska, 275 p.
- Kinney, P. J., et al, 1972, Nearshore and estuarine environments
of the Alaskan Arctic coast: 1st Internat. Norwegian Tech.
Univ. Port and Ocean Eng. Under Arctic Cond. Conf. Proc., v. 1,
p. 48-72. College, Alaska.

- Klein, R. M., Lyle, W. M., Dobey, P. L., and O'Connor, K. M., 1974,
Estimated speculative recoverable resources of oil and natural
gas in Alaska: Alaska Div. Geol. Geophys. Surveys open-file
report 44, 8 p.
- Kopf, R. W., 1970, Geologic names in use north of the Brooks Range,
Alaska, in Geological seminar of the North Slope of Alaska,
Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc.
Petroleum Geologists Pacific Sec., p. Q1-Q5.
- Koranda, J. J., 1970, Pingos: Pacific Discovery, v. 23, no. 3,
p. 18-24.
- Koranda, J. J., 1972, The North Slope: Its physiography, fauna and
its flora: Alaska Geographic, Alaska Geographic Soc., Anchorage,
v. 1, No. 1, p. 6-37.
- Krinsley, D. B., Davies, W. E., Rachlin, J., and Newton, E. G., 1971,
Existing environment of natural corridors from Prudhoe Bay,
Alaska to Edmonton, Canada: U.S. Geol. Survey open-file
report, 104 p.
- Lachenbruch, A. H., 1959, Periodic heat flow in a stratified medium
with application to permafrost problems: U.S. Geol. Survey
Bull. 1083-A, p. 1-36.
- _____ 1970, Some estimates of a heated pipeline in permafrost:
U.S. Geol. Survey Water-Supply Paper 632, 16 p.
- _____ 1970, Some estimates of the thermal effects of a heated pipe-
line in permafrost: U.S. Geol. Survey Circ. 632, 23 p.

- Lachenbruch, A. H., 1970, Thermal consideration in permafrost, in
Geological seminar of the North Slope of Alaska, Palo Alto,
Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum
Geologists Pacific Sec., p. J1-J2; Discussion p. J2-J5.
- Lachenbruch, A.H., and Marshall, B. V. 1969, Heat flow in the Arctic in
U.S. Naval Arctic Research Lab. Dedication Symposium, Fairbanks,
Alaska, 1969, Proc.: Arctic, v. 22, no. 3, p. 300-311.
- Latham, E. H., 1972, Nimbus IV view of the major structural features
of Alaska: Science, v. 175, no. 4029, p. 1423-1427.
- _____, 1973a, Analysis of state of vehicular scars on arctic tundra,
Alaska: Symposium on Significant Results Obtained from Earth
Resources Technology Satellite-1, Third, Natl. Aeronaut, Space
Admin., Washington, D. C., December, 1973.
- _____, 1973b, EROS program, ERTS satellites and arctic applications:
Proc. Internat. Congress "Arctic Oil and Gas, Problems and
Possibilities", 5th, Fondation Francaise d'Etudes Nordique,
Le Havre, France, May 1973.
- _____, 1973c, Geologic application of ERTS imagery in Alaska:
Symposium on Significant Results Obtained from Earth Resources
Technology Satellite-1, Third, Natl. Aeronaut. Space. Admin.
Washington, D. C., December 1973.
- _____, 1973d, Tectonic framework of northern and central Alaska, in
Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p.
351-360; 1970, abs. in Internat. Arctic Geology Symposium, 2d,
San Francisco, 1971, Abs. Papers: Am. Assoc Petroleum Geolo-
gists Bull., v. 54, no. 12, p. 2493.

- Lathram, E. H., Tailleux, I. L., Patton, W. W., Jr., et al, 1973 Preliminary geologic application of ERTS -1 imagery in Alaska, in Symposium on significant results obtained from the Earth Resources Technology Satellite-1, Volume I, Technical Presentations: U.S. Nat. Aeronautics and Space Admin. Spec. Publ. no. 327, p. 257-264. National Aeronautics and Space Administration, Washington, D. C.
- Lawrence, C. J., 1972, Alaska has giant potential: Oil and Gas Jour., v. 70, no. 43, p. 119.
- LeSchack, L. A., and Morse, F. H., 1972, Dual-channel airborne I-R scanning for detection of ice in permafrost (Alaska-preliminary results): Am. Soc. Photogramm., Proc., no. 38, p. 213-238.
- Lewellen, R. I., 1970, Permafrost erosion along the Beaufort Sea coast: Univ. Denver, Geogr. Geol. Dept., Denver, Colo., 25 p.
- Lewellen, Robert, and Brown, Jerry, 1970, Man induced erosion on permafrost (abs.), in Alaska Sci. Conf., 20th, College, 1969, Proc.: Sci. Alaska 1969, p. 333-334
- Lian, E. B., 1971, Developments in Alaska in 1970: Am. Assoc. Petroleum Geologists Bull., v. 55, no. 7, p. 943-957.
- Macbeth, J. I., and Schmidt, R. A. M., 1973, Upper Cretaceous Foraminifera from Ocean Point, northern Alaska: Jour. Paleontology, v. 47, no. 6, p. 1047-1061.
- McCaslin, J. C., 1969, A look down under up north: Oil and Gas Jour. v. 67, no. 50, p. 107.
- _____, 1970a, Will the Arctic pay out in 1970?: Oil and Gas Jour., v. 68, no. 1, p. 121.

- McCaslin, J. C., 1970b, Oil in the Arctic where permafrost tries to defy: Oil and Gas Jour., v. 68, no. 16, p. 185.
- _____, 1970c, Chukchi Sea survey turns up hope: Oil and Gas Jour., v. 68, no. 49, p. 109.
- McGaw, R. W., Anderson, D. M., Brown, Jerry, Haugen, R. K., and Tice, A. R., 1970, Bentonitic debris flows near Umiat, Alaska (abs.), in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2495.
- McKelvey, V. E., and Wang, F. F. H., 1969, World subsea mineral resources: U.S. Geol. Survey Misc. Geol. Inv. Map, 4 sheets.
- McKenzie, L. A., Nemeth, D. F., and Walker, H. J., 1971, Morphology of two arctic river bars (abs.): Natl. Coastal Shallow Water Res. Conf., Abs., no. 2, p. 146.
- Mamet, B. L., 1970, Foraminiferal biostratigraphy and Carboniferous microfacies, northern Alaska and Yukon (abs.), in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2494.
- Mamet, B. L., and Armstrong, A. K., 1972, Lisburne Group, Franklin and Romanzof mountains, northeastern Alaska: U.S. Geol. Survey Prof. Paper no. 800-C, p. C127-C144.
- Mangus, M. D., and Pessel, G. H., (Chm. North Slope Stratigraphic Committee), 1972, Northwest to southeast stratigraphic correlation section Prudhoe Bay to Ignek Valley, Arctic North Slope, Alaska: The Alaska Geologic Soc., Anchorage, Alaska.

- Marshall, T. R., Jr., 1970, Oil and gas regulatory practice, Prudhoe Bay Field, Alaska: Interstate Oil Compact Comm. Bull., v. 12, no. 1, p. 43-46.
- Martin, A. J., 1970, Structure and tectonic history of the western Brooks Range, DeLong Mountains, and Lisburne Hills, northern Alaska: Geol. Soc. America Bull., v. 81, no. 12, p. 3605-3621.
- Marvin, R. F., 1974, A tabulation of K-Ar, Rb-Sr, and Pb- α ages obtained from materials within the United States (including Alaska and Hawaii) during the years 1965 through 1968: U.S. Geol. Survey open-file report, 245 p.
- Mason, G. L., and others, 1969, Characteristics of PC 1 events observed at Kotzebue, Point Barrow and College, Alaska: Geophysical Inst., Univ. of Alaska, College, Alaska, 26 p.
- Meyer, R. F., 1970, Geologic provinces code map for computer use: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 7, p. 1301-1305.
- Meyerhoff, A. A., 1973, Origin of Arctic and North Atlantic Oceans, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 562-582.
- Migliaccio, R. R., and Rooney, J. W., 1970, Engineering geologic and subsurface soil investigations for Trans-Alaska Pipeline system (abs.), in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2496.
- Miller, D. J., and others, 1959, Geology of possible petroleum provinces in Alaska, with an annotated bibliography by E. H. Cobb: U.S. Geol. Survey Bull. 1094, 131 p.

- Moening, H. J., 1973, An overview of the trans-Alaska pipeline; engineering and environmental geology problems, in Geology, seismicity, and environmental impact, p. 405-409: Assoc. Eng. Geol., Los Angeles.
- Moody, J. D., 1973, Petroleum exploration aspects of wrench-fault tectonics: Am. Assoc. Petroleum Geologists Bull., v. 57, no. 3, p. 449-476.
- Morgridge, D. L., and Smith, W. B., Jr., 1972, Geology and discovery of Prudhoe Bay field, Eastern Arctic Slope, Alaska, in Stratigraphic oil and gas fields; classification, exploration methods, and case histories: Am. Assoc. Petroleum Geologists Mem. 16, p. 489-501; 1970, abs. in Am. Assoc. Petroleum Geologists Bull., v. 54, no. 10, p. 1969.
- Moulton, Benjamin, 1972, Alaska and its pipe dream, in Readings in earth sciences, p. 178-190, Van Nostrand Reinhold Co., New York.
- Mowatt, T. C., and Naidu, A. S., 1974, Gravels from the Alaska continental shelf, Beaufort Sea, Arctic Ocean: petrologic character and implications for sediment source and transport: Alaska Div. Geol. Geophys. Surveys open-file report 43, 70 p.
- Mowatt, T. C., and others, 1974, Clay mineralogy of the lower Colville River and Colville Delta, north Arctic Alaska: Alaska Div. Geol. Geophys. Surveys open-file report 45, 39 p.
- Mull, C. G., and Mangus, M. D., 1972, Itkilyariak Formation; new Mississippian formation of Endicott Group, Arctic Slope of Alaska: Am. Assoc. Petroleum Geologists Bull., v. 56, no. 8, p. 1364-1369.

- Mullens, M. C., and Roberts, A. E., 1972, Selected annotated bibliography on asphalt-bearing rocks of the United States and Canada, to 1970: U.S. Geol. Survey Bull. 1352, 218 p.
- Munger, A. H., ed., 1971, California-Alaska oil and gas fields: Los Angeles, Calif. Munger Oil Inf. Service, Map Book 306 p.
- Naidu, A. S., 1971, Geochemical studies on the bottom sediments of the Beaufort Sea, Arctic Ocean, in Trace metal associations in sub-arctic and arctic marine environments: Inst. of Marine Sci., University of Alaska, College, Alaska, p. 114-120.
- Naidu, A. S., and others, 1971a, Clay mineral composition and geologic significance of some Beaufort Sea sediments, in Trace metal associations in sub-arctic and arctic marine environments work completed 1970: Inst. of Marine Sci., University of Alaska, College, Alaska, p. 1-10.
- _____, 1971b, Texture, organic carbon and clay mineralogy of western Beaufort Sea sediments (abs.), in Trace metal associations in sub-arctic and arctic marine environments work completed 1970: Inst. of Marine Sci., University of Alaska, College, Alaska, p. 18-20.
- Naidu, A. S., and Mowatt, T. C., 1973, Lateral variations of clay minerals in deltaic sediments of Colville and adjacent rivers, North Slope, Alaska (abs.): Am. Assoc. Petroleum Geologists Bull., v. 57, no. 4, p. 796-797.
- Naidu, A. S., and Sharma, G. D., 1971, Texture, mineralogy, and chemistry of Arctic Ocean sediments (progress report): Inst. of Marine Sci., Univ. of Alaska, College, Alaska, 17 p.

- Nakano, Yoshisuke, and Brown, Jerry, 1972, Mathematical modeling and validation of the thermal regimes in tundra soils, Barrow, Alaska: Arctic and Alpine Research, v. 4, no. 1, p. 19-38.
- Nauman, J. W., and Kernodle, D. R., 1973, Field water-quality information along the proposed trans-Alaska pipeline corridor, September 1970 through September 1972: U.S. Geol. Survey open-file report 22 p.
- Norgaard, R. B., 1972, Petroleum development in Alaska; prospects and conflicts: Nat. Resources Jour., v. 12, no. 1, p. 83-107.
- Norman, C. A., 1973, Economics of Prudhoe Bay field -- a comparison with Bell Creek field, in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2499.
- Norris, D. K., 1972, Structural and stratigraphic studies in the tectonic complex area of northern Yukon territory, north of Porcupine River: Geol. Survey of Canada, report of activities, Paper 72-1, Pt. B., p. 91-99.
- _____, 1973, Tectonic styles of northern Yukon Territory and northwestern district of Mackenzie, Canada, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 23-40.
- North Slope Stratigraphic Committee, Alaska Geological Society, Anchorage, Alaska, 1970, The Sag River sandstone and Kuparuk River sands, two important subsurface units in the Prudhoe Bay field, in Geological seminar of the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. P1-P3.

Oil and Gas Journal, 1969, USGS Study spots thick beds off northwest

Alaska coast: Oil and Gas Jour., v. 67, no. 49, p. 55.

_____ 1970a, Data on 1 Prudhoe Bay State revealed: Oil and Gas Jour., v. 68, no. 31, p. 44-45.

_____ 1970b, Spacing rules set for big Prudhoe Bay: Oil and Gas Jour., v. 68, no. 3, p. 36.

_____ 1970c, Survey opens on North Slope's Icy Cape: Oil and Gas Jour., v. 68, no. 7, p. 46.

_____ 1970d, The Arctic -- new world oil theatre (map): Oil and Gas Jour., v. 68, no. 16, p. 107.

_____ 1970e, The impact of Prudhoemanía: Oil and Gas Jour., v. 68, no. 16, p. 146, 148, 150, 152, 154, 156.

_____ 1971a, Prudhoe Bay data are revealed at Alaskan hearing for first time: Oil and Gas Jour., v. 69, no. 21, p. 57-61.

_____ 1971b, Prudhoe permafrost problems can be licked: Oil and Gas Jour., v. 69, no. 25, p. 114-119.

_____ 1971c, USGS releases maps of Alaskan line route: Oil and Gas Jour., v. 69, no. 40, p. 138.

_____ 1972, Alaska tackles Prudhoe conservation problem: Oil and Gas Jour., v. 70, no. 25, p. 33.

_____ 1973a, North Slope data disclosed for court: Oil and Gas Jour., v. 71, no 11, p. 165.

_____ 1973b, Slope's NPR-4 may hold vast reserves: Oil and Gas Jour., v. 71, no. 38, p. 38-39.

- Orth, K. J., 1970, North Slope geographic name sources for geologic nomenclature in Geological seminar on the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. R1-R10.
- _____ 1971, Dictionary of Alaska Place Names: U.S. Geol. Survey Prof. Paper 567, 1,084 p.
- Ostenso, N. A., and Wold, R. J., 1973, Aeromagnetic evidence for origin of Arctic Ocean basin, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 506-516.
- Packer, D. R., 1972, Paleomagnetism of the Mesozoic in Alaska: Univ. Alaska, College, Alaska, Ph.D. thesis; 1973, Abs. in Dissert. abs., v. 33, no. 9, p. 4342B.
- Page, R. A., Boore, D. M., Joyner, W. B., and Coulter, H. W., 1972, Ground motion values for use in the seismic design of the trans-Alaska pipeline system: U.S. Geol. Survey Water-Supply Paper 672, 23 p.
- Paige, R. A., and O'Brien, J. A., 1972, Floor foundation stabilization in permafrost at Barrow, Alaska: Ann. Eng. Geol. Soils Eng. Symp., Proc., no. 10, p. 287-299; abs. in Alaska Sci. Conf., Proc., no. 22, p. 162.
- Paquette, R. G., and Bourke, R. H., 1974, Observations on the coastal current of arctic Alaska: Jour. of Marine Research, New Haven, v. 32, No. 2, p. 195-207.
- Parson, D., 1972, Arctic supplies can help satisfy U.S. gas needs: Pipeline Gas Jour., v. 199, no. 8, p. 31, 70.

- Pecora, W. T., 1970, The need for mapping and inventorying natural resources, in The use of remote sensing ... of natural resources of Alaska: Juneau, Alaska, Dept. of Econ. Devel., p. 30-32.
- Pelletier, B. R., and Shearer, J. M., 1972, Sea bottom scouring in the Beaufort Sea of the Arctic Ocean: Internat. Geol. Cong., Sec. 8, Marine Geology and Geophysics, p. 251-261.
- Penttila, Bill, 1970, Sadlerochit Reservoir at Prudhoe Bay, Alaska (abs.) in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologist Bull., v. 54, no. 12, p. 2500-2501.
- Perkins, P. L., 1971, The dipnoan fish *Dipterus* from the middle Devonian (Givetian) of Alaska: Jour. Paleontology, v. 45, no. 3, p. 554-555.
- Pewe, T. L., 1953, Brief review of Pleistocene events and climatic changes in Alaska: U.S. Geol. Survey open-file report, 14, p.
- Peyton, H. R., 1970, Arctic-engineering: Jour. Petroleum Technology, v. 22, September, p. 1076-1082.
- Reed, J. C., 1969, Naval Petroleum Reserve No. 4 -- Then and now (abs.): Geophysics, v. 34, no. 6, p. 1006.
- _____, 1970a, Minerals potential of Alaska: Explorers Jour., v. 48, no. 1, p. 56-62.
- _____, 1970b, Oil and the Arctic tundra: Natl. Parks and Conservation Magazine, v. 44, no. 278, p. 4-7.
- _____, 1970c, Oil developments in Alaska: Polar Rec., v. 15, no. 94, p. 7-17.

- Reimnitz, E., 1972, Studies of the inner shelf and coastal sedimentation environment of the Beaufort Sea from ERTS-A: U.S. ESSA Tech. Rept. E72-10034, 4 p.
- Reimnitz, E., and Barnes, P., 1972, Sea ice as a geological agent affecting the margin of the Arctic Ocean, Alaska (abs.): Am. Geophys. Union Trans., v. 53, no. 11, p. 1008.
- Reimnitz, E., and Bruder, K. F., 1972, River discharge into an ice-covered ocean and related sediment dispersal, Beaufort Sea, coast of Alaska: Geol. Soc. America, Bull., v. 83, no. 3, p. 861-866.
- Reimnitz, E., and others, 1972, Influence of grounding ice on the Arctic shelf of Alaska: Marine Geology, Elsevier Pub. Co., Amsterdam, v. 13, No. 5, p. 323-324.
- Reimnitz, E., Wolf, S. C., and Rodeick, C. A., 1972, Preliminary interpretation of seismic profiles in the Prudhoe Bay area, Beaufort Sea, Alaska: U.S. Geol. Survey open-file report, 11p.
- Reimnitz, E., Barnes, P. W., and Alpha, T. R., 1973, Bottom features and processes related to drifting ice on the arctic shelf, Alaska: U.S. Geol. Survey, Mineral Inv. Field Studies Map. MF-532, scale 1:1,000,000.
- Reiser, H. N., 1970, Northeastern Brooks Range — a surface expression of the Prudhoe Bay section, in Geological seminar on the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. K1-K13; discussion, p. K 14.
- Reiser, H. N., Dutro, J. T., Jr., Brosge, W. P., Armstrong, A. K., and Detterman, R. L., 1970, Progress map, geology of the Sadlerochit and Shublik Mountains, Mt. Michelson C-1, C-2, C-3, and C-4 quadrangles, Alaska: U.S. Geol. Survey open-file report.
- Reiser, H. N., Brosge, W. P., Dutro, J. T., Jr., and Detterman, R. L., 1971, Preliminary geologic map, Mount Michelson quadrangle, Alaska: U.S. Geol. Survey open-file report.

- Reiser, H. N., Brosge, W. P., Dutro, J. T., Jr., and Detterman, R. L., 1974, Preliminary geologic map of the Demarcation Point quadrangle, Alaska: U.S. Geol. Survey open-file map, 2 sheets.
- Rickwood, F. K., 1970, The Prudhoe Bay field, in Geological seminar on the North Slope of Alaska, Palo Alto, Calif., 1970, Proc.: Los Angeles, Calif., Am. Assoc. Petroleum Geologists Pacific Sec., p. L1-L11.
- Rinker, J. N., and Frost, R. E., 1970, Application of remote sensing to Arctic environmental studies, in the use of remote sensing... of natural resources of Alaska: Juneau, Alaska, Dept. of Econ. Devel., p. 105-116.
- Rogers, G. W., 1971, International petroleum and the economic future of Alaska: Polar Record, v. 15 No. 97, p. 463-478.
- Roth, S., 1972, Oil and Alaska -- the fight for Naval Petroleum Reserve No. 4, 1959-62: Jour. of the West, v. 11, no. 3, p. 531-541.
- Rummert, H. J., 1969, Erdöl im Polargebiet (Petroleum in polar regions;) Gluckauf, v. 105, no. 21, p. 1088-1093.
- Ryabukhin, G. Ye, and Bykov, V. F., 1971, Prudhoe Bay; novyy neftyanoy gigant (Prudhoe Bay; a new giant oil deposit): Geol. Nefti Gaza, v. 15, no. 10, p. 48-52.

- Scholl, D. W., and Sainsbury, C. L., 1960, Marine geology and bathymetry of the nearshore shelf of the Chukchi Sea, Ogotoruk Creek area, northwest Alaska: U.S. Geol. Survey open-file report, 68 p.
- Schouler, A. B., Wells, J. C., and Walstrom, J. E., 1969, Formation evaluation in Alaska (abs.), in SPWLA Logging Symposium, 10th Ann., Houston, Tex., 1969, Trans.: Houston, Tex., Soc. Prof. Well Log Analysts, p. B1.
- Scott, R. A., 1970, Availability of palynological material from Naval Petroleum Reserve No. 4, XIX; Umiat Test Wells Nos. 3 and 11, Simpson Core Tests 21, 27, 30, 30A: U.S. Geol. Survey open-file report, 2 p.
- Shacklette, H. T., 1965, Bryophytes associated with mineral deposits and solutions in Alaska (Barrow quad.): U.S. Geol. Survey Bull. 1198-C, p. C1-C18.
- Sharma, G. D., 1972, Arctic Sedimentation induced by storm: 1st Internat. Norwegian Tech. Univ. Port and Ocean Eng. Under Arctic Cond. Conf. Proc., v. 1, p. 271-278. College, Alaska.
- Shinner, B. C., 1971, Investigation of ice island scouring of the northern continental shelf of Alaska: U.S. Coast Guard Acad. Rept. RDCGA-23, 24 p.
- Short, A. D., and Wright, L. D., 1974, Lineaments and coastal geomorphic patterns in the Alaskan Arctic: Geol. Soc. America Bull., v. 85, p. 931-936.
- Silberling, N. J., 1970, Biostratigraphy of marine Triassic in northern Alaska (abs.), in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2504.

- Sloan, C. E., 1972, Water-resources reconnaissance of Anaktuvuk Pass, Alaska: U.S. Geol. Survey Alaska Dept. Public Works open-file report, 12 p.
- Sloan, C. E., and Bredehoeft, J. D., 1972, Some effects of a heated pipeline on groundwater flow in Alaska: U.S. Geol. Survey open-file report, 25 p.
- Smiley, C. J., 1970, Cretaceous floral sequences in Alaskan Arctic (abs.), in Internat. Arctic Geology Symposium, 2d, San Francisco, 1971, Abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2504.
- _____ 1972a, Applicability of plant megafossil biostratigraphy to marine-nonmarine correlations; an example from the Cretaceous of northern Alaska, in Paleontology -- Paleontologie, sec. 7, Internat. Geol. Congr. Proc. -- Congr. Geol. Internat. Programme, no. 24, p. 413-421; abs in Internat. Geol. Congr. Abs. -- Congr. Geol. Internat., Resumes, no. 24, p. 243.
- _____ 1972b, Plant megafossil sequences, North Slope Cretaceous, in Am. Assoc. Stratigr. Palinol., Ann. Mtg., 3d, Proc.: Geosci. Man. v. 4, p. 91-99.
- Smith, B. N., Rivera, E. R., and Keel, J. R., 1973, 4000-year old pine wood from deep sediments near Prudhoe Bay, Alaska: Naturwissenschaften v. 60, no. 4, p. 202.
- Smith, P. S., 1941, Mineral industry of Alaska in 1939: U.S. Geol. Survey Bull. 926-A, p. 1-106.

- Smith, P. S., 1942, Mineral industry of Alaska in 1940: U.S. Geol. Survey Bull. 933-A, p. 1-102.
- Smith, R. B., and Blasko, D. P., 1972, The mineral industry of Alaska, in Area reports; domestic: U.S. Bur. Mines Mineral Yearbook, 1970, v. 2, p. 69-85.
- Smith, R. B., and Fackler, W. C., 1973, The mineral industry of Alaska, 1971: U.S. Bur. Mines Minerals Yearbook Preprint, 16 p.
- Smith, W. B., Jr., 1972, Prudhoe Bay field; a reflection seismic discovery (abs.): Soc. Explor. Geophys, Internat. Mtg., no. 42, p. 33; 1973, Geophysics, v. 38, no. 1, p. 190.
- Sohn, I. G., 1971, New late Mississippian ostracode genera and species from northern Alaska: U.S. Geol. Survey Prof. Paper 711-A, p. A1-A24.
- Sproule, J. C., 1970, All three Arctic regions will see intense activity in next 5 years: Oil and Gas Jour., v. 68, no. 16, p. 118-119.
- Soronen, G. S., 1970, Developments in Alaska in 1969: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 6, p. 1070-1083.
- Steele, H. B., 1973, Supply and demand applied to North American Arctic, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 611-616.
- Stewart, B. D., 1933, Mining investigations and mine inspection in Alaska, including assistance to prospectors, biennium ending March 31, 1933 (Demarcation Point quad.): Juneau, Alaska, 192 p.

- Stewart, B. D., and Dyer, B. W., 1922, Annual report of the Territorial Mine Inspector to the Governor of Alaska, 1921 (Barrow quad.): Juneau, Alaska, 96 p.
- Sweet, J. M., 1970, Petroleum exploration in the north (abs.), in Alaska Sci. Conf., 20th, College, 1969, Proc.: Sci. Alaska 1969, p. 48.
- Tailleur, I. L., 1970a, Lead-zinc-and barite-bearing samples from the western Brooks Range, Alaska, with a section on Petrography and mineralogy, by G. D. Eberlein and Ray Wehr: U.S. Geol. Survey open-file report, 12 p.
- _____ 1970b, Structure and stratigraphy of western Arctic Alaska (abs.), in Internat. Arctic Geology Symposium, 2d. San Francisco, 1971, abs. Papers: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2508.
- _____ 1971, Translation of 1964 Russian correlations between Wrangell Island and northern Alaska: U.S. Geol. Survey open-file report, 13 p.
- _____ 1973a, A skeleton in Triassic rocks in the Brooks Range Foot-hills: Arctic, v. 26, no. 1, p. 79-80.
- _____ 1973b, Probable rift origin of Canada Basin, Arctic Ocean, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 526-535; 1970, abs. in Am. Assoc. Petroleum Geologists Bull., v. 54, no. 12, p. 2508; U.S. Geol. Survey open-file report.
- Tailleur, I. L., and Brosge, W. P., 1970, Summary geology of the western Brooks Range regions, Arctic Alaska (abs.): Symposium on the Geophysics and Geology of the Bering Sea region, Alaska University, College, Alaska.

- Tailleur, I. L., and Brosge, W. P., 1971, Brooks Range orogen, Arctic Alaska (abs.): Geol. Soc. America Abs. with Programs, v. 3, no. 6, p. 415.
- Tailleur, I. L., Mamet, B. L., and Dutro, J. T., Jr., 1973, Revised age and structural interpretation of Nuka Formation at Nuka ridge, northwestern Alaska: Am. Assoc. Petroleum Geologists Bull., v. 57, p. 1348-1352; 1972, U.S. Geol. Survey open-file report, 10 p.
- Tailleur, I. L., and Snelson, Sigmund, 1969, Large-scale thrusting in northwestern Alaska possibly related to rifting of the Arctic Ocean (abs.): Geol. Soc. America Spec. Paper 121, p. 569.
- Tedrow, J. C. F., 1969, Thaw lakes, thaw sinks and soils in northern Alaska: Biul. Peryglacjalny, no. 20, p. 337-344; 1971, in Etudes sur le Quaternaire dans le Monde: V. 1, Assoc. Francaise Etude Quaternaire Bull., Suppl no. 4, p. 113-118.
- Theobald, P. K., Schweinfurth, S. P., and Duncan, D. C., 1972, Energy resources of the United States: U.S. Geol. Survey Circ. 650, 27 p.
- Thompson, C. J., Coleman, H. J., Dooley, J. E., and Hirsch, D. E.,
 Bumines analysis shows characteristics of Prudhoe Bay crude:
 Oil and Gas Jour., v. 69, no. 43, p. 112-114, 118, 120.
- Tkachenko, V. V., Egiazarov, B. KH, Atlasov, I. P., Lazurkin, V. M., Markov, F. G., Polkin, Y. I., Ravich, M. G., Romanovich, B. S., and Sokolov, V. N., 1973, Main geologic structures of the Arctic: Am. Assoc. Petroleum Geologists Mem. 19, p. 336-347.

- Tourtlot, E. B., 1970, Selected annotated bibliography of minor-element content of marine black shales and related sedimentary rocks 1930-65: U.S. Geol. Survey Bull. 1293, 118 p.
- Tourtlot, H. A., and Tailleux, I. L., 1971, The Shublik Formation and adjacent strata in northeastern Alaska: U.S. Geol. Survey open-file report, 62 p.
- Tschudy, B. D., 1969, Species of Aquilapollenites and Fibulapollis from two Upper Cretaceous localities in Alaska: U.S. Geol. Survey Prof. Paper 643-A, p. A1-A17.
- Tucker, R. W., 1972, The sedimentary environment of an arctic coast lagoon (abs.): Am. Geophys. Union, Trans., v. 53, 11, p. 1027-1028.
- Tussing, A. R., and others, 1971, Alaska pipeline report; Alaska's economy, oil and gas industry development, and the economic impact of building and operating the trans-Alaska pipeline: Inst. of Social, Economic and Government Research, Univ. of Alaska, Fairbanks, Alaska, 138 p.
- U.S. Bureau of Mines, 1973, Alaska 1:250,000 scale quadrangle map overlays showing exploratory oil and gas well drilling locations and productive oil-and gas field locations: U.S. Bur. Mines open-file rept. 69-73, 87 p.
- U.S. Department of the Interior, 1970, The national atlas of the United States of America: U.S. Dept. of the Interior, Geol. Survey Washington, D. C., 417 p.

- U.S. Geological Survey, 1960, Geological Survey research, 1960;
synopsis of geologic results (Barrow, Pt. Hope quads): U.S.
Geol. Survey Prof. Paper 400 A, p. A1-A136.
- _____ 1961, Geological Survey research, 1961, synopsis of geologic
and hydrologic results (DeLong Mts., Arctic, Mt. Michelson,
Pt. Hope quads.): U.S. Geol. Survey Prof. Paper 424-A, p. A1-A194.
- _____ 1962, Geological Survey research 1962 (DeLong Mts., Barrow,
Pt. Hope Quads.): U.S. Geol. Survey Prof. Paper 450-A, p. A1-A257.
- _____ 1963, Geological Survey Research 1963; summary of investiga-
tions prepared by members of the Conservation, Geologic, and
Water Resources Divisions (Pt. Hope quad.): U.S. Geol. Survey
Prof. Paper 475-A, p. A1-A300.
- _____ 1964, Geological Survey research 1964 (Ikpikpuk River, Pt.
Hope, DeLong Mts. Howard Pass, Killik River, Table Mt., Chandler
Lake, Umiat quads.): U.S. Geol. Survey Prof. Paper 501-A
p. A1-A367.
- _____ 1965, Geological Survey research 1965 (Demarcation Point,
Pt. Hope Quads.): U.S. Geol. Survey Prof. Paper 525-A, p. A1-A376.
- _____ 1966, Geological Survey research 1966 (DeLong Mts., Misheguk
Mt., Pt. Hope, Demarcation Point, Mt. Michelson, Howard Pass,
quads.): U.S. Geol. Survey Prof. Paper 550-A, p. A1-A385.
- _____ 1967, Geological Survey research 1967 (Pt. Hope quad.): U.S.
Geol. Survey Prof. Paper 575-A, p. A1-A377.
- _____ 1968, Geological Survey research 1968 (Mt. Michelson, Pt. Lay,
Table Mt. quads.): U.S. Geol. Survey Prof. Paper 600A, p. A1-A371.

U.S. Geological Survey, 1969, Geological Survey Research 1969: U.S.

Geol. Survey Prof. Paper 650, p. A48-A50.

_____ 1970a, Beechey Point A-2 NE, A-2 NW, A-3 NE, A-3 NW,

A-4 NE, B-2 SE, B-2 SW, B-3 NW, B-3 SE, B-3 SW,

B-4 NE, B-4 SE (1955-70), Alaska, (orthophoto maps): U.S. Geol.

Survey Alaska Topog. Ser. Map, scale 1:24,000.

_____ 1970b, Demarcation Point, Alaska: U.S. Geol. Survey Alaska

Topog. Ser. Map, scale 1:24, 000.

_____ 1970c, Geological Survey Research 1970: U.S. Geol. Survey Prof.

Paper 700A, p. A43-A45, A101-A103, A144.

_____ 1970d, Sagavanirktok C-1, Alaska: U.S. Geol. Survey Alaska

Topog. Ser. Map, scale 1:63,360.

_____ 1970e, Selected sources of information on United States and world

energy resources — an annotated bibliography: U.S. Geol. Survey

Circ. 641, p. 1-21.

_____ 1970f, Teshekpuk D-2, D-3, and D-4, Alaska: U.S. Geol. Survey

Alaska Topog. Ser. Map, scale 1:63,360.

_____ 1970g, Umiat B-4, C-4, and D-2, Alaska: U.S. Geol. Survey

Alaska Topog. Ser. Map, scale 1:63,360.

_____ 1971a, Delong Mountains A-5, B-2, B-3, B-4, B-5, C-3, C-4,

C-5, D-4, D-5, Alaska: U.S. Geol. Survey Alaska Topog. Ser.

Map, scale 1:63,360.

_____ 1971b, Geological Survey Research 1971: U.S. Geol. Survey

Prof. Paper 750A, p. A49-A51; p. A101-A103, A134.

- U.S. Geological Survey, 1971c, Point Hope D-2, (ATC)a, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1971d, Point Lay C-2, D-2, (ATC), Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1971e, Umiat A-3, A-4, A-5, B-3, B-5, C-3, C-5, D-1, D-3, D-4, D-5, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1971f, Wainwright A-1, A-4, A-5, A-6, A-7, B-2, B-3, B-4, B-5, B-6, C-3, D-1, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1972a, Flaxman Island B-5, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1972b, Geological Survey Research 1972: U.S. Geol. Survey Prof. Paper 800A, p. A48-A50, A93-A94, A126-127.
- _____ 1972c, Index to topographic maps of Alaska: Washington, D.C., U.S. Geol. Survey.
- _____ 1972d, National atlas (relief) map of Alaska: U.S. Geol. Survey Special Map, scale 1:7,600,000.
- _____ 1973a, U.S. Geological Survey program 1973: U.S. Geol. Survey circular 683, 56 p.
- _____ 1973b, Chandler Lake A-1, B-1, B-2, C-1, C-2, D-2, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1973c, Geologic and water-supply reports and maps, Alaska: U.S. Dept. Int. Geol. Survey, Washington, D. C. 20244.
- _____ 1973d, Geological Survey Research 1973: U.S. Geol. Survey Prof. Paper 850, p. 62, 125-128.

- U.S. Geological Survey, 1973e, Mt. Michelson A-5, B-5, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1973f, Philip Smith Mountains B-3, B-5, C-2, C-3, C-4, D-1, D-2, D-3, D-4, D-5, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1973g, Sagavanirktok, A-1, A-3, A-4, B-3, B-4, B-5, C-2, C-4, C-5, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1973h, Table Mountain A-5, B-3, and B-4, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1973i, Umiat A-1, A-2, B-2, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1974a, Arctic A-1, Alaska: U.S. Geol. Survey, Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1974b, Philip Smith Mountains B-4, C-5, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1974c, Table Mountain A-1, A-2, A-3, B-1, B-2, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1974d, Umiat B-1, Alaska: U.S. Geol. Survey Alaska Topog. Ser. Map, scale 1:63,360.
- _____ 1974e, United States Geological Survey Alaska Program, 1974: U. S. Geol. Survey Circular 700, U.S. Geol. Survey, Washington, D. C., 20244.

- U.S. Geological Survey, Alaskan Geology Branch, 1972a, Aeromagnetic data from S. W. Naval Petroleum Reserve, Alaska: U.S. Geol. Survey open-file report, 4 p.
- _____ 1972b, The status of mineral resources information on the major land withdrawals of the Alaska Native Claims Act of 1971: U.S. Geol. Survey open-file report, 164 p.
- _____ 1974a, Alaskan reports in open files: U.S. Geol. Survey, Menlo Park, Calif.,
- _____ 1974b, Geological Survey open-file reports on Alaska indexed by quadrangle: U.S. Geol. Survey, open-file report 74-7, 116 p.
- _____ 1974c, Selected U.S. Bureau of Mines reports on Alaska indexed by quadrangle: U.S. Geol. Survey open-file report 74-52, 40 p.
- U.S. Geological Survey State Base Map, 1970, Alaska Map A: U.S. Geol. Survey State Base Map, scale 1:5,000,000.
- _____ 1971, Alaska map B: U.S. Geol. Survey State Base Map, scale 1:584,000.
- U.S. Geological Survey, Water Resources Division, 1969a, Hydrological observations, Fairbanks to Prudhoe Bay and other Arctic Slope areas: U.S. Geol. Survey open-file report, 12 p.
- _____ 1969b, Water resources of the Arctic Slope region, Alaska, preliminary report: U.S. Geol. Survey open-file report, 31 p.
- _____ 1971a, Surface water supply of the United States, 1961-65 -- Part 15, Alaska: U.S. Geol. Survey Water-Supply Paper 1936, 342 p.
- _____ 1971b, Water resources data for Alaska: U.S. Geol. Survey, Anchorage, Alaska, Part 1, p. 161-164; part 2, p. 249-252.

U.S. Geological Survey, Water Resources Division, 1972a, Flood surveys along proposed TAPS route, Alaska: U.S. Geol. Survey open-file report, 16 p.

_____ 1972b, Water resources data for Alaska: U.S. Geol. Survey, Anchorage, Alaska, part 1, p. 172-177; part 2, p. 254-255.

_____ 1972c, Water resources investigations in Alaska: U.S. Geol. Survey, Washington, D. C.

_____ 1973a, Quality of surface waters of the United States, 1968 -- Parts 12-16, North Pacific slope basins, Alaska, Hawaii, and other Pacific areas: U.S. Geol. Survey Water-Supply Paper 2100, 464 p.

_____ 1973b, Water resources investigations, Alaska, in Geol. Survey Research 1973: U.S. Geol. Survey Prof. Paper 850, p. 103.

U. S. Geological Survey, Water Resources Division, Alaska District in cooperation with the United States Public Health Service, 1972, Surface-water investigations at Barrow, Alaska: U.S. Geol. Survey open-file report, 16 p.

U. S. Navy Electronics Laboratory, 1949, Oceanographic measurements from the USS Nerius on a cruise to the Bering and Chukchi Seas, 1947: U.S. Navy Electronics Lab. Rept. 91.

U. S. Navy Electronics Laboratory, 1950, Oceanographic cruise to the Bering and Chukchi Seas, summer 1949; Pt. 1, Sea floor studies: U.S. Navy Electronics Lab. Rept. 204.

University of Alaska, Geophysical Institute, 1971, Geophysical Institute University of Alaska; annual rept, 1970-1971: Alaska Univ. Geophys. Inst., 152 p.

- Vasilecskaya, N. D., 1973, Arctic Mesozoic flora: Am. Assoc. Petroleum Geologists Mem. 19, p. 296-300.
- Viereck, E. C., ed., 1970, Science in Alaska: Proc. of the 20th Sci. Conf., College, Alaska, Am. Assoc. Adv. Sci., Alaska Div., College, Alaska, 425 p.
- Walker, H. J., 1968, Riverbank erosion -- An arctic example (abs.): Geol. Soc. America Spec. Paper 101, p. 233.
- _____, 1970, Some aspects of erosion and sedimentation in an arctic delta during breakup (with discussion), ___ Hydrology of deltas -- Hydrologie des deltas, v. 1; Internat. Assoc. Sci. Hydrol. -Unesco, Stud. Rept. Hydrol., no. 9, p. 209-219.
- Walker, H. J., and McCloy, J. M., 1969, Morphologic change in two arctic deltas -- ...Blow River delta, Yukon Territory, and Colville River delta, Alaska -- U.S. Army Research Contract DAHC04-67C-0061, Final Rept.: Arctic Inst. North America Research Paper 49, 91 p.
- Warfield, R. S., 1967, Resume of information on Alaskan bituminous coals with particular emphasis on coking characteristics: U.S. Bur. Mines open-file report 11-67, 20 p.
- Warfield, R. S., Boley, C. C., 1969, Sampling and coking studies of several coal beds in the Kokolik River, and Cape Beaufort areas of arctic northwestern Alaska: U.S. Bur. Mines Rept. Inv. 7321 58 p.
- Wedow, Helmuth, Jr., White, M. G., and Moxham, R. M., 1952, Interim report on an appraisal of the uranium possibilities of Alaska: U.S. Geol. Survey open-file report, 123 p.

- Weeden, R. B., and Klein, D. R., 1971, Wildlife and Oil: A survey of critical issues in Alaska: Polar Record, V. 15, No. 97, p. 479-494.
- Wendler, G., Fahl, C., and Corbin, S., 1972, Mass balance studies on McCall Glacier, Brooks Range, Alaska: Arctic and Alpine Research v. 4, no. 3, p. 211-222.
- Wendler, G., and Ishikawa, N., 1974a The combined heat, ice and water balance of McCall glacier, Alaska: a contribution to the international hydrological decade: Jour. of Glaciology, Intl. Glac. Soc., Cambridge, England, v. 13, No. 68, p. 227-241.
- _____ 1974b, The effect of slope, exposure and mountain screening on the solar radiation of McCall glacier, Alaska: a contribution to the international hydrological decade: Jour. of Glaciology, Intl. Glac. Soc., Cambridge, England, V. 13, No. 68, p. 213-226.
- Wendler, G., and Weller, G., 1974, a heat-balance study on McCall glacier, Brooks Range, Alaska: a contribution to the international hydrological decade: Journal of Glaciology, Intl. Glac. Soc., Cambridge, England, V. 13, No. 67, p. 13-26.
- Wiggins, V. D., 1973, Upper Triassic dinoflagellates from arctic Alaska: Micropaleontology, v. 19, no. 1, p. 1-16.
- Williams, J. A., et al, 1970, State of Alaska, Department of Natural Resources, Division of Mines and Geology; report for the year 1969: Alaska Div. Mines and Minerals Geol. Rept., 65 p.
- Williams, J. R., 1970a, A review of water resources of the Umiat area, northern Alaska: U.S. Geol. Survey Circ. 636, 8 p.

- Williams, J. R., 1970b, Ground water in the permafrost regions in Alaska: U.S. Geol. Survey Prof. Paper 696, 83 p.
- Wilson, H. M., 1974, Vast new areas on North Slope beckon wildcatters: Oil and Gas Jour., v. 72, no. 11, p. 21-24.
- Wilson, J. L., 1970, North Slope potential and effect on domestic exploration in the seventies (abs.): Am. Assoc. Petroleum Geologists, v. 54, no. 9, p. 1793.
- Wood, G. V., 1972, Chert in Lisburne Limestone of Alaska (abs.): Am. Assoc. Petroleum Geologists, Bull., v. 56, no. 3, p. 663.
- World Oil, 1969, How North Slope wells are drilled: World Oil, v. 169, no. 7, p. 72-75.
- _____ 1972, Old seismograms reveal new North Slope data: World Oil, v. 175, no. 2, p. 60-61.
- World Petroleum, 1971, Permafrost geology at Prudhoe Bay: World Petroleum, v. 42, No. 8, p. 28.
- Yeend, W. E., 1972, Winter protalus mounds; Brooks Range, Alaska: Arctic and Alpine Research, v. 4, no. 1, p. 85-87.
- Yeend, Warren, 1973a Preliminary geologic map of a prospective transportation route from Prudhoe Bay, Alaska, to Canadian Border, Part I, Beechey Point and Sagavanirktok quadrangles: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-489, scale 1:125,000.
- _____ 1973b Preliminary geologic map of a prospective transportation route from Prudhoe Bay, Alaska, to Canadian border, Part II, Mt. Michelson quadrangle, Alaska: U.S. Geol. Survey Mineral Inv.

Yeend, Warren, 1973c, Preliminary geologic map of a prospective transportation route from Prudhoe Bay, Alaska, to Canadian border, Part V, Coleen quadrangle (north half), Alaska: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-502, scale 1:125,000.

Yeend, Warren, and Brosge, W. P., 1973a, Preliminary geologic map of a prospective transportation route from Prudhoe Bay, Alaska, to Canadian border, Part III, Arctic quadrangle (north half), Alaska: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-501, scale 1:125,000.

_____ 1973b, Preliminary geologic map of a prospective transportation route from Prudhoe Bay, Alaska, to Canadian border, Part IV, Arctic and Table Mtn. quadrangles: U.S. Geol. Survey Mineral Inv. Field Studies Map MF-522, scale 1:125,000.

Yorath, C. J., 1973, Geology of Beaufort-Mackenzie basin and eastern part of northern interior plains, in Arctic geology: Am. Assoc. Petroleum Geologists Mem. 19, p. 41-47.

INDEX

AREAL GEOLOGY (see also STRATIGRAPHY and STRUCTURAL GEOLOGY)

INDEX

Alaska: Cobb, E. H., 1974a

LOCAL

Beechey Pt. quadrangle: Ferrians, O. J., Jr., 1971b
Cape Beaufort: Callahan, J. E., 1971
Demarcation Point quadrangle: Reiser, H. N., Brosge, W. P.,
Dutro, J. T., Jr., and Detterman, R. L., 1974
Kukpowruk Coal Field: Callahan, J. E., Wanek, A. A., Schell,
E. M., Zeller, H. D., and Rohrer, W. L., 1969
Mt. Michelson quadrangle: Reiser, H. N., Brosge, W. P.,
Dutro, J. T., Jr., and Detterman, R. L., 1971
Philip Smith Mts. quadrangle: Ferrians, O. J., Jr., 1971a
Sadlerochit and Shublik Mts: Reiser, H. N., Dutro, J. T., Jr.,
Brosge, W. P., Armstrong, A. K., and Detterman R. L., 1970
Sagavanirktok: Ferrians, O. J., Jr., 1971b

REGIONAL

Alaska: Miller, D. J., and others, 1959
Alaska, northern: Adkison, W. L., and Brosge, M. M. eds., 1970;
Brosge, W. P., and Tailleur, I. L., 1971; Gryc, George, 1970b;
Hartman, D. C., 1973
Arctic region: Yorath C. J., 1973
Brooks Range, eastern: Yeend, Warren, 1973a, 1973b, 1973c;
Yeend, Warren, and Brosge, W. P., 1973a, 1973b
Brooks Range, western: Tailleur, I. L., and Brosge, W. P.,
1970
Canada: Norris, D. K., 1972

SYNOPSIS

Cobb, E. H., 1974b

ECONOMIC GEOLOGY

BIBLIOGRAPHY

Coal: Averitt, P., and Lopez, L., 1972
Energy resources: Averitt, Paul, and Carter, M. D.,
1970; Mullens, M. C., and Roberts, A. E., 1972

COAL

Kokolik River, Kukpowruk River, and Cape Beaufort areas:
Warfield, R. S., and Boley, C. C., 1969
Resources: Averitt, Paul, 1968, 1969; Conwell, C. N.,
1972a, 1972b; Warfield, R. S., 1967

GENERAL

Alaska Division of Geological Survey, 1972b; Berg, H. C.,
1970; Brobst, D. A., and Pratt W. P., eds., 1973; Reed,
J. C., 1970a; Smith, P. S., 1941, 1942; Smith, R. B., and
Blasko, D. P., 1972; Smith, R. B., and Fackler, W. C.,
1973; Stewart, B. D., 1933; Williams J. A., et al, 1970

MINERAL DEPOSITS

Index: Cobb, E. H., 1973a
Lead, zinc, barite: Tailleux, I. L., 1970a
Placer deposits: Cobb, E. H., 1973b
Regional: Barnes, Peter, and Leong, Kam, 1971; Bottage,
R. G., 1974; Clark, A. L., Berg, H. C., Cobb, E. H.,
Eberlein, G. D., MacKevett, E. M., Jr., and Miller,
T. P., 1972; Cobb, E. H., compiler, 1972a, 1972b

PETROLEUM

Analyses: Coleman, H. H., Dooley, J. E., Hirsch, D. E., and
Thompson, C. J., 1972; Thompson, C. J., Coleman, H. J.,
Dooley, J. E., and Hirsch, D. E., 1971

Developments

Offshore: McCaslin, J. C., 1970c
Problems: Haynes, J. B., 1972; Norgaard, R. B., 1972
Prudhoe Bay: Basye, Dale, 1969a; Gibson, Ray, 1968; Kelley,
T. E., 1971; Morgridge, D. L. and Smith, W. B., Jr., 1972;
Oil and Gas Journal, 1971a; 1973a; Penttila, Bill, 1970;
Rickwood, F. K., 1970; Ryabukhin, G. Ye, and Bykov, V. F.,
1971

Regional: Adams, W. D., 1972; Alwyne, Thomas, 1969; Basye,
Dale, 1969b; Harrison, C. R., Dobey, P. L., Gryc, George,
et al, 1973; Lian, E. B., 1971; McCaslin, J. C., 1969; Reed,
J. C., 1970c; Rummert, H. H., 1969; Soronen, G. S., 1970

Drilling: Bleakley, W. B., 1970

Economics: Ion, D. C., 1973; Norman, C. A., 1973; Rogers,
G. W., 1971; Steele, H. B., 1973; Tussing, A. R., and
others, 1971

Exploration: Calderon-Berti, Humberto, 1969; Churkin, Michael,
Jr., and Brabb, E. E., 1969; Gryc, George, 1970d; Oil and
Gas Journal, 1970c; Sproule, J. C., 1970; Sweet, J. M.,
1970; Wilson, H.M., 1974; Wilson, J.L., 1970

Formation Evaluation: Schouler, A. B., Wells, J. C., and Walstrom, J. E., 1969

General

Directory: Alaska Petroleum and Industrial Directory, 1974

Maps and Services: Alaska Map Service, 1974; Alaska

Scouting Service, 1955-1974

Oil and gas fields: Munger, A. H., ed., 1971

Operations problems: Bleakley, W. B., 1971; World Oil, 1969

Regulatory practice

Prudhoe Bay: Marshall, T. R., Jr., 1970; Oil and Gas Journal, 1970b, 1972

Reserves

Sadlerochit formation: Alaska Division of Oil and Gas (with B. K. van Poolen and Associates, Inc.) 1974

Resources and possibilities: Gryc, George, 1971a, 1971d; King R. E., 1973; Klein, R. M., Lyle, W. M., Dobey, P. L., and O'Connor, K. M., 1974; Lawrence, C. J., 1972; McCaslin, J. C., 1970a; Oil and Gas Journal, 1970d, 1970e, 1973b; Parson, D., 1972

Statistics: Alaska Division of Oil and Gas, 1973b; Albers, J. P., Carter, M. D., Clark, A. L., Coury, A. G., and Schweinfurth, S. P., 1973

Well records: Oil and Gas Journal, 1970a

URANIUM

Eakins, G. R., 1969; Wedow, Helmuth, Jr., White, M. G., and Moxham, R. M., 1952

ENGINEERING GEOLOGY (see also HYDROGEOLOGY)

Arctic: Peyton, H. R., 1970

Permafrost problems

Drilling and coring: Anderson, G. W., 1971,

Floor foundations: Paige, R. A., and O'Brien, J. A., 1972

Pipeline: Ferrians, O. J., Jr, and Kachadoorian, Reuben, 1973; Migliaccio, R. R., and Rooney, J. W., 1970; Moening, H. J., 1973; Moulton, Benjamin, 1972; Oil and Gas Journal, 1971c

GENERAL

Annual Reports: Alaska Division of Geological and Geophysical Surveys, 1970, 1973; Alaska Division of Geological Survey, 1970, 1972a; Alaska Division of Mines and Geology, 1969; Alaska Division of Oil and Gas, 1973a; Fackler, W. C., et al., 1972; Stewart, B. D., and Dyer, B. W., 1922

Arctic Sedimentation: Sharma, G. D., 1972

- Bibliographies: Arctic Institute of North America, 1951-1971;
 Fritts, C. E., and Brown, M. E., compilers, 1971a, 1971b,
 1971c, 1971d; Fritts, C. E., and Tuell, E. J., 1972;
 Fritts, C. E., Zesiger, E. A., Tuell, E. J., et al., 1972
- Depositional history
 Alaska, northern: Brosge, W. P., and Tailleur, I. L., 1970a
- Environmental: Brew, D. A., 1974; Brewer, M. C., 1972; Dole,
 H. M., 1973; Higgs, N. B., 1972; Joint Federal State Land
 Use Planning Commission for Alaska, 1973; Krinsley,
 D. B., Davies, W. E., Rachlin, J., and Newton, E. G., 1971;
 Rinker, J. N., and Frost, R., E., 1970; Weeden, R. B.,
 and Klein, D. R., 1971
- Explorations and surveys: Carter, Claire, ed., 1974; Gryc,
 George, 1970a, 1971b, 1971c; U.S. Geological Survey,
 1973a
- Geologic provinces
 Computer code map: Meyer, R. F., 1970
- Maps
 Atlas: U.S. Department of the Interior, 1970
 Geological Highway: American Association of Petroleum
 Geologists, 1974
 Index: U. S. Geological Survey, 1972c
 Oil and Gas: U.S. Bureau of Mines, 1973
- Topographic
 1:24,000 scale
 Beechey Point: U.S. Geological Survey, 1970a
 Demarcation Point: U.S. Geological Survey, 1970b
- 1:63,360 scale
 Arctic: U.S. Geological Survey, 1974a
 Chandler Lake: U.S. Geological Survey, 1973b
 DeLong Mountains: U.S. Geological Survey, 1971a
 Flaxman Island: U.S. Geological Survey, 1972a
 Mt. Michelson: U.S. Geological Survey, 1973e
 Philip Smith Mountains: U.S. Geological Survey,
 1973f, 1974b
 Point Hope: U.S. Geological Survey, 1971c
 Point Lay: U.S. Geological Survey, 1971d
 Sagavanirktok: U.S. Geological Survey, 1970d, 1973g
 Table Mountain: U.S. Geological Survey, 1973h, 1974c
 Teshekpuk: U.S. Geological Survey, 1970f
 Umiat: U.S. Geological Survey, 1970g, 1971e, 1973i
 1974d
 Wainwright: U.S. Geological Survey, 1971f
- 1:584,000 scale
 U.S. Geological Survey State Base Map, 1971
- 1:5,000,000 scale
 U.S. Geological Survey State Base Map, 1970
- 1:7,600,000 scale
 U.S. Geological Survey, 1972d

Names and boundaries: Orth, D. J., 1970, 1971
 Naval Petroleum Reserve No. 4: Roth, S., 1972
 Paleoclimate: Pewe, T. L., 1953
 Paleogeography
 Permian: Dutro, J. T., Jr., and Saldukas, R. B., 1973
 Publication lists: Anonymous, 1973; U.S. Geological Survey,
 1973c; U.S. Geological Survey, Alaskan Geology Branch,
 1974a, 1974b, 1974c
 Research: Gryc, George, 1970c; U.S. Geological Survey, 1960,
 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969,
 1970c, 1971b, 1972b, 1973d, 1974e
 Resources: Pecora, W. T., 1970; Theobald, P. K., Schweinfurth,
 S. P., and Duncan, D. C., 1972; U.S. Geological Survey,
 1970e; U.S. Geological Survey, Alaskan Geology Branch,
 1972b

GEOCHEMISTRY

Areas

Arctic lakes: Barsdate, R. J., 1968, 1971
 Beaufort Sea: Naidu, A. S., 1971
 Cape Thompson: Baker, J. H., Beetem, W. A., and Wahlberg,
 J. S., 1964
 Chukchi Sea: Burrell, D. C., and others, 1969
 Sadlerochit-Jago Rivers: Brosge, W. P., Reiser, H. N., and
 Estland, M. B., 1970

Sedimentary rocks

Bibliography: Tourtelot, E. B., 1970
 General: Hill, T. P., and Werner, M. A., 1972

GEOMORPHOLOGY (see also AREAL GEOLOGY)

Barrow: Hume, M. D., Schalk, Marshall, and Hume, P. W., 1972
 Bars: McKenzie, L. S., Nemeth, D. F., and Walker, H. J., 1971
 Beaches: Green, H. G., 1972
 Brooks Range: Brower, K., 1971
 Coastal zone: Hartwell, A. D., 1973
 Deltas: Walker, H. J., 1970; Walker, H. J., and Mc Cloy, J. M.,
 1969
 Erosion: Brice, James, 1971; Childers, J. M., 1972a; Walker, H. J.,
 1968
 General: Black, R. F., 1969; Korands, J. J., 1972
 Glaciation
 Drainage channels: Berkland, J. O., 1968
 McCall glacier: Wendler, G., Fahl, C., and Corbin, S., 1972;
 Wendler, G., and Ishikawa, N., 1974a, 1974b; Wendler, G.,
 and Weller, G., 1974

Ice

- Island: Breslau, L. R., et al., 1972; Shinner, B. C., 1971
- Sea: Anderson, V. H., 1970; Barnes, P. W., and Reimnitz, E., 1972, 1973; Brooks, L. D., 1973; Pelletier, B. R., and Shearer, J. M., 1972; Reimnitz, E., and others, 1972; Reimnitz, E., and Barnes, P., 1972; Reimnitz, E., Barnes, P. W., and Alpha, T. R., 1973
- Lakes: Tedrow, J. C. F., 1969,
- Landslides: Anderson, D. M., and Brown, Jerry, 1970
- Lineaments: Short, A. D., and Wright, L. D., 1974
- Mud-flow channels
 - Umiat: McGaw, R. W., Anderson, D. M., Brown, Jerry, Haugen, R. K., and Tice, A. R., 1970
- Nearshore environment: Kinney, P. H., et al., 1972
- Permafrost
 - Alaska: Journaux, Andre, 1970
 - Erosion: Lewellen, R. I., 1970; Lewellen, R. I., and Brown, Jerry, 1970
 - Geochemistry: Brown, Jerry, 1969a
 - Infra-red scanning: LeSchack, L. A., and Morse, F. H., 1972
 - Prudhoe Bay: Howitt, Frank, 1971; Howitt, Frank, and Clegg, M. W., 1970; McCaslin, J. C., 1970b; Oil and Gas Journal, 1971b; World Petroleum, 1971
 - Temperatures: Lachenbruch, A. H., 1959, 1970a, 1970b, 1970c
- Pingos: Koranda, J. J., 1970
- Protalus mounds: Yeend, W. E., 1972
- Soils
 - Okpilak river: Brown, Jerry, 1969c
 - Tundra: Arkley, R. J., and Gesper, P. L., 1972; Brown, Jerry, 1969b; Gesper, P. L., and Arkley, R. J., 1972; Lathram, E. H., 1973a; Reed, J. C., 1970b

GEOPHYSICAL INVESTIGATIONS (see also STRUCTURAL GEOLOGY)

Alaska

- Annual reports: University of Alaska, Geophysical Institute, 1971
 - Electrical surveys: Frischknecht, F. C., and Stanley, W. D., 1970
 - Gravity surveys: Barnes D. G., 1968, 1969a, 1969b, 1972
 - Paleomagnetism: Packer, D. R., 1972
 - Remote sensing: Lathram, E. H., 1973b, 1973c; Lathram, E. H., Tailleux, I. L., Patton, W. W., Jr., et al, 1973
 - Seismic surveys: Page, R. A., Boore, D. M., Joyner, W. B., and Coulter, H. W., 1972
- ### Alaska, northern
- Electrical surveys: Hessler, V. P., 1970
 - Gravity surveys: Barnes, D. F., 1970
 - Magnetic surveys: Hanna, W. F., Ruppel, B. D., McHendrie, A. G., and Sikora, R. F., 1974; Brosge, W. P., Brabb, E. E., and King, E. R., 1970

- Seismic surveys: Grantz, Arthur, McHendrie, A. G., Nilsen, T. H., and Yorath, C. J., 1974; Grantz, Arthur, McHendrie, A. G., Nilsen, T. H., Yorath, C. J., and Phillips, J. D., 1974; World Oil, 1972
- Arctic Basin
- Gravity and magnetic surveys: Ostenso, N. A., and Wold, R. J., 1973
- Heat flow: Lachenbruch, A. H., and Marshall, B. V., 1969
- Seafloor spreading: Hall, J. K., 1973
- Barrow
- PC 1 events: Mason, G. L., and others, 1969
- Thermal regimes: Nakano, Yoshisuke, and Brown, Jerry, 1972
- Beaufort Sea
- Seismic Profiles - Prudhoe Bay area: Reimnitz, E., Wolf, S. C., and Rodeick, C. A., 1972
- Chukchi Sea
- Acoustic and magnetic profiling: Grantz, Arthur, Wolf, S. C., Breslau, Lloyd, Johnson, T. C., and Hanna, W. F., 1970
- Seismic and magnetic surveys: Grantz, A., Hanna, W. F., and Wallace, S. L., 1971, 1972; Grantz, Arthur, Hanna, W. F., and Wolf, S. C., 1970; Johnson, T. C., and Breslau, L. R., 1971
- Seismic, magnetic and gravity: Cady, J. W., Ruppel, B. D., McHendrie, A. G., and Deas, H. S., 1973; Grantz, A., Holmes, M. L., Riley, D. C., and Wallace, S. L., 1972
- Naval Petroleum Reserve No. 4
- General
- Summary reports: Reed, J. C., 1969
- Magnetic surveys: U.S. Geological Survey, Alaskan Geology Branch, 1972a
- Noatak River basin
- Geophysical data: Barnes, D. F., and Tailleux, I. L., 1970
- Prudhoe Bay
- Seismic surveys: Smith, W. B., Jr., 1972

HYDROGEOLOGY

- General: Childers, J. M., Sloan, C. E., and Meckel, J. P., 1973; Nauman, J. W., and Kernodle, D. R., 1973; U.S. Geological Survey, Water Resources Division, 1969a
- Ground Water
- Alaska: Sloan, C. E., and Bredehoeft, J. D., 1972
- Permafrost: Williams, J. R., 1970b
- Research: U.S. Geological Survey, Water Resources Division, 1973b
- Surface water
- Alaska: U.S. Geological Survey, Water Resources Division, 1971a; 1973a
- Barrow: Jones, S. H., 1972 (1973); U.S. Geological Survey, Water Resources Division, Alaska District in cooperation with the United States Public Health Service, 1972

- Floods: Childers, J. M., 1970a, 1972b; U.S. Geological Survey, Water Resources Division, 1972a
 Streamflow-data: Childers, J. M., 1970b
 Water resources
 Alaska: Feulner, A. J., Childers, J. M., and Norman, V. W., 1971; U.S. Geological Survey, Water Resources Division 1971b; 1972b, 1972c
 Alaska northern: U.S. Geological Survey, Water Resources Division, 1969b; Williams, J. R., 1970a
 Bibliography: Hartman, C. W., and Carlson, R. F., 1970
 Local: Sloan, C. E., 1972

OCEANOGRAPHY and MARINE GEOLOGY

- Alaskan continental margin
 Currents: Paquette, R. G., and Bourke, R. H., 1974
 Arctic Ocean: Burrell, D. C., 1971a, 1971b; Clark, D. L., 1973; Herman, Y., 1970; Kinney, P. J., and others, 1972; Meyerhoff, A. A., 1973
 Beaufort Sea: Barnes, P. W., Reimnitz, E., Gustafson, C. W., and Larsen, B. R., 1973; Burrell, D. C., and others, 1970; Reimnitz, E. and Bruder, K. F., 1972
 Bering and Chukchi seas: U.S. Navy Electronics Laboratory, 1949, 1950
 Chukchi Sea: Echols, R. J., Creager, J. S., Holmes, M. L., and McManus, D. A., 1969; Kinney, P. J., and others, 1970; Scholl, D. W., and Sainsbury, C. L., 1960
 Resources: McKelvey, V. E., and Wang, F. F. H., 1969
 Sediment transport: Dygas, J. A., Burrell, D. C., and Naidu, A. S., 1973

PALEONTOLOGY

Ages

Paleozoic

- Fauna: Dutro, J. T., Jr., Reiser, H. N., Detterman, R. L., and Brosge, W. P., 1971

Devonian

- Fauna: Perkins, P. L., 1971

Mississippian

- Cephalopods: Gordon, M., Jr., 1971
 Corals: Armstrong, A. K., 1972a, 1973a
 Ostracods: Sohn, I. G., 1971

Mississippian and Pennsylvanian - Carboniferous

- Corals: Armstrong, A. K., 1973b
 Foraminifera: Armstrong, A. K., 1970c; Armstrong, A. K., Mamet, B. L., and Dutro, J. T., Jr., 1970
 General: Bogush, E. I., and Yuferev, O. V., 1970

- Pennsylvanian
 - Brooks Range: Armstrong, A. K., 1971, 1972b
- Permian: Grant, R. E., 1971
- Mesozoic
 - Flora: Boneham, R. F., and Tailleux, I. L., 1972
 - Foraminifera: Bergquist, H. R., 1970
- Triassic
 - Dinoflagellates: Wiggins, V. D., 1973
 - Fauna: Tailleux, I. L., 1973a
- Jurassic
 - Ammonites: Imlay, R. W., 1953
 - Paleobiogeography: Imlay, R. W., and Detterman, R. L., 1973
- Cretaceous
 - Flora: Smiley, C. J., 1970, 1972b
 - Foraminifera: Macbeth, J. I., and Schmidt, R. A. M., 1973
 - Palynology: Tschudy, B. D., 1969
- Tertiary
 - Mollusks: Addicott, W. O., 1971
- Holocene
 - Flora: Smith, B. N., Rivera, E. R., and Keel, J. R., 1973
- Barrow area
 - Flora: Shacklette, H. T., 1965
- General
 - Foraminifera: Harman, R. A., and Cooper, S. C., 1969
- Naval Petroleum Reserve No. 4
 - Palynological material: Scott, R. A., 1970

PETROLOGY

- Sedimentary rocks
 - Mineralogy: Mowatt, T. C., and others, 1974
- Sedimentation
 - Alaska, northern: Barnes, P. W., 1971; Hoskin, C. M., and others, 1969
 - Arctic Ocean: Maidu, A. S., and Sharma, G. D., 1971; Tucker, R. W., 1972
 - Beaufort Sea: Mowatt, T. C., and Naidu, A. S., 1974; Naidu, A. S., and others, 1971a, 1971b; Reimnitz, E., 1972
 - Colville river delta: Furbinger, W., and Walker, H. J., 1973; Naidu, A. S., and Mowatt, T. C., 1973
- Thin sections
 - Lisburne limestone: Wood, G. V., 1972

STRATIGRAPHY (see also AREAL and STRUCTURAL GEOLOGY)

Correlations, regional

- Alaska: Dutro, J. T., Jr., 1960; Smiley, C. J., 1972a
- Alaska-Siberia: Tailleur, I. L., 1971
- Arctic: Detterman, R. L., 1971; Fackler, W. C., (Chm. North Slope Stratigraphic Committee), 1971
- Prudhoe Bay - northeastern Brooks Range: Armstrong, A. K., and Mamet, B. L., 1974; Mangus, M. D., and Pessel, G. H., (Chm. North Slope Stratigraphic Committee), 1972

Local

- Barrow: Duguid, J. O., 1971
- Nuka Ridge: Tailleur, I. L., Mamet, B. L., and Dutro, J. T., Jr., 1973
- Nomenclature: Cohee, G. V., 1970; Kopf, R. W., 1970

Radioactive dating

- Alaska: Marvin, R. F., 1974
- Arctic region: Carson, C. E., 1968

Regional

- Alaska, northern: Brosge, W. P., and Dutro, J. T., Jr., 1973; Brosge, W. P., and Tailleur, I. L., 1969; Oil and Gas Journal, 1969
- Brooks Range: Reiser, H. N., 1970

Rock units

Paleozoic and Precambrian

- Alaska Northeastern: Dutro, J. T., Jr, Brosge, W. P., and Reiser, H. N., 1972
- Structural evolution: Churkin, Michael, Jr., 1973b

Mississippian

- Alaska, north: Armstrong, A. K., Mamet, B. L., and Dutro, J. T., Jr. 1971
- Brooks Range: Armstrong, A. K., 1970b; Mull, C. G., and Mangus, M. D., 1972
- DeLong Mts.: Armstrong, A. K., 1970a; Armstrong, A. K., and Dutro, J. T., Jr., 1969

Pre-carboniferous: Dutro, J. T., Jr., 1970

Carboniferous

- Alaska, northern: Armstrong, A. K., 1974; Armstrong, A. K., and Mamet, B. L., 1970; Dutro, J. T., Jr., and Armstrong, A. K., 1970; Mamet, B. L., 1970; Mamet, B. L., and Armstrong, A. K., 1972;

Carboniferous and Permian: Bamber, E. W., and Waterhouse, J. B., 1971

Mesozoic

- Alaska, northern: Detterman, R. L., 1973
- Prudhoe Bay: North Slope Stratigraphic Committee, Alaska Geological Society, Anchorage, Alaska, 1970

Triassic

- Alaska: Detterman, R. L., 1970a
- Alaska, northern: Silberling, N. J., 1970; Tourtelot, H. A., and Tailleur, I. L., 1971
- Brooks Range: Detterman, R. L., 1970c

Holocene

- Warm interval: Detterman, R. L., 1970b

STRUCTURAL GEOLOGY (see also GEOPHYSICAL INVESTIGATIONS)

Regional structure

- Alaska: Lathram, E. H., 1972
- Alaska, northern: Fischer, W. A., and Lathram, E. H., 1973; Martin, A. H., 1970; Tailleur, I. L., 1970b
- Arctic basin: Andreyev, B. A., and others, 1968; Churkin, Michael, Jr., 1970a, 1970b, 1973a; Tkachenko, V. V., Egiazarov, B. KH, Atlasov, I. P., Lazurkin, V. M., Markov, F. G., Polkin, Y. I., Ravich, M. G., Romanovich, B. S., and Sokolov, V. N., 1973

Tectonics

- Alaska: Churkin, Michael, Jr., 1969b; Forbes, R. B., Hamilton, Thomas, Tailleur, I. L., et al, 1971; Freeland, G. L., and Dietz, R. S., 1973; Moody, J. D., 1973
- Alaska, northern: Bogdanov, N. A., and Geodekyan, A. A., 1970; Brosge, W. P., and Tailleur, I. L., 1970b; Lathram, E. H., 1973d
- Arctic basin: Churkin, Michael, Jr., 1969a; Hamilton, Warren, 1970; Norris, D. K., 1973; Tailleur, I. L., 1973b
- Brooks Range: Tailleur, I. L., and Brosge, W. P., 1971

Thrust faulting

- Alaska, northern: Tailleur, I. L., and Snelson, Sigmund, 1969

SERIAL LIST

Alaska Div. Geological and Geophysical Surveys Inf. Circ. -- State of Alaska Department of Natural Resources Division of Geological and Geophysical Surveys Information Circular. College, Alaska.

Alaska Div. Geological and Geophysical Surveys Rept. -- State of Alaska Department of Natural Resources Division of Geological and Geophysical Surveys Annual Reports. Anchorage, Alaska.

Alaska Div. Geological Survey -- State of Alaska Department of Natural Resources, Division of Geological Survey. Anchorage, Alaska.

Alaska Div. Geological Survey --State of Alaska Department of Natural Resources, Division of Geological Survey. College, Alaska.

Alaska Div. Mines and Geology Rept. --State of Alaska Department of Natural Resources, Division of Mines and Geology Reports. College, Alaska.

Alaska Div. Mines and Minerals Geol. Rept. --State of Alaska Department of Natural Resources, Division of Mines and Minerals Geological Reports. Juneau, Alaska.

Alaska Div. Oil and Gas Rept. --Alaska Department of Natural Resources, Division of Oil and Gas Reports. Anchorage, Alaska.

Alaska Geographic --Alaska Geographic Society, Anchorage, Alaska

Alaska Geol. Soc. --The Alaska Geological Society. Anchorage, Alaska

Alaska Map Service --Alaska Map Service. Anchorage, Alaska.

Alaska Petroleum and Industrial Directory --Annual Alaska Petroleum and Industrial Directory. Petroleum Publications, Inc. Anchorage, Alaska.

Alaska Sci. Conf. Proc. --Alaska Science Conference Proceedings.
 American Association for the Advancement of Science, Alaska
 Division. College, Alaska.

Alaska Scouting Service --Alaska Scouting Service (annual). Petro-
 leum Publications Inc. Anchorage, Alaska.

Alaska Univ. Geophys. Inst. (Rept. Ser.) --Geophysical Institute of
 the University of Alaska (Report Series). College, Alaska.

Alaska Univ. Inst. of Marine Sci. Rept. --Institute of Marine Science
 of the University of Alaska Report. College, Alaska.

Alaska Univ. Inst. Water Resources --Water Resources Institute of
 the University of Alaska Reports. College, Alaska.

Alberta Soc. Petroleum Geologists Bull. --Bulletin of the Alberta
 Society of Petroleum Geologists. Calgary, Alberta, Canada.

Am. Assoc. Petroleum Geologists Bull. --Bulletin of the American Associ-
 ation of Petroleum Geologists. Tulsa, Okla.

Am. Assoc. Petroleum Geologists Map --Geological Highway map No. 8
 (Alaska and Hawaii) of the American Association of Petroleum
 Geologists. Tulsa, Okla.

Am. Assoc. Petroleum Geologists Mem. --Memoir of the American Association
 of Petroleum Geologists. Tulsa, Okla.

Am. Assoc. Petroleum Geologists Proc. --Proceedings of the American
 Association of Petroleum Geologists, Pacific Section, Los Angeles,
 Calif.

Am. Assoc. Petroleum Geologists Repr. Series --American Association
 of Petroleum Geologists. Reprint Series. Tulsa, Okla.

Am. Chem. Soc. Petrol. Chem. Div. Preprints --American Chemical Society
 Petroleum Chemistry Division preprints. American Chemical Society.
 Washington, D. C.

Am. Geophys. Union Trans. --Transactions of the American Geophysical
 Union. Washington, D.C.

Am. Soc. Agronomy --American Society of Agronomy. Madison, Wisc.

Am. Soc. Photogramm. Proc. --American Society of Photogrammetry,
 Proceedings. Falls Church, Va.

Ann. Eng. Geol. Soils Eng. Symp., Proc. --Annual Engineering Geology
 and Soils Engineering Symposium No. 10, Proceedings. University
 of Idaho, College of Engineering and College of Mines. Moscow,
 Idaho.

Arctic --Arctic. Arctic Institute of North America. Montreal, Quebec,
 Canada.

Arctic and Alpine Research --Arctic and Alpine Research. Institute of
 Arctic and Alpine Research. Boulder, Colo.

Arctic Inst. No. America. The Arctic Institute of North America.
 Montreal, Quebec, Canada.

Arctic Oil and Gas, Problems and Possibilities --Proceedings of the 5th
 International Congress on Arctic Oil and Gas, Problems and Possi-
 bilities. Fondation Francaise d' Etudes Nordique. Le Havre, France.

Assoc. Eng. Geol. Ann. Mtg., Program Abs. --Association of Engineering
 Geologists, annual meeting; Program and Abstracts. Washington, D.C.

Assoc. Francaise Etude Quaternaire Bull. --Bulletin de l'Association
 Francaise Pour l'Etude du Quaternaire. Publie avec le concours
 du Centre National de la Recherche Scientifique. Paris, France.

Biul. Peryglacjalny --Biuletyn Peryglacjalny. Lodzkie Towarzystwo
 Naukowe. Lodz, Poland.

Canada Geol. Survey Rept. of Act. --Geological Survey of Canada Report
 of Activities. Ottawa, Ontario, Canada.

Canadian Mining Jour. --Canadian Mining Journal. National Business
 Publications Limited. Gardenvale, Quebec, Canada.

Denver Univ. Geogr. Geol. Dept. --University of Denver Geography and
 Geology Department Report. Denver, Colo.

Dept. of Econ. Devel. --State of Alaska Department of Economic Develop-
 ment. Juneau, Alaska.

Dissert. Abs. --Dissertation Abstracts International. Xerox University
 Microfilms. Ann Arbor, Mich.

Explorers Jour. --Explorers Journal. Official Journal of the Explorers
 Club. New York, N. Y.

Friends of the Earth --Friends of the Earth. McCall, San Francisco.

Geol. Nefti Gaza --Geologiya Nefti i Gaza. Moscow, U.S.S.R.

Geol. Soc. America Abs. with Programs. --Geological Society of America
 Abstracts with Programs. Boulder, Colo.

Geol. Soc. America Bull. --Geological Society of America Bulletin.
 Boulder, Colo.

Geol. Soc. America Spec. Paper --Geological Society of America Special
 Paper. Boulder, Colo.

Geophysics --Geophysics. Society of Exploration Geophysicists. Tulsa,
 Okla.

Geosci. Man --Geoscience and Man. Louisiana State University, School
 of Geoscience. Baton Rouge, La.

Gluckauf --Gluckauf. Bergmannische Zeitschrift. Verlag Gluckauf.

Essen, Federal Republic of Germany.

Houston Geol. Soc. Bull. --Bulletin of the Houston Geological Society.

Houston, Texas.

Inst. of Social, Economic and Government Research --Institute of Social,
Economic, and Government Research, University of Alaska. Fairbanks,
Alaska.

Internat. Assoc. Quaternary Research --International Association of
Quaternary Research. McGill-Queen's University Press. Montreal,
Quebec, Canada.

Internat. Assoc. Sci. Hydrology Pub. --Publication of the International
Association of Scientific Hydrology. Gentbrugge, Belgium.

Internat. Geol. Congress --24th International Geological Congress.
Ottawa, Ontario, Canada.

International Geological Congress Proceedings --Proceedings of the
International Geological Congress, 23d, 1968. Prague, Czech.

Interstate Oil Compact Comm. Comm. Bull. --Interstate Oil Compact
Commission Committee Bulletin. Oklahoma City, Okla.

Jour. Glaciology --Journal of Glaciology. International Glaciological
Society. Cambridge, England.

Jour. Marine Research --Journal of Marine Research. Sears Foundation
for Marine Research, Bingham Oceanographic Laboratory, Yale Univer-
sity. New Haven, Conn.

Jour. of the West --Journal of the West. Los Angeles, Calif.

Jour. Paleontology --Journal of Paleontology. Society of Economic
Paleontologists and Mineralogists, The American Association of
Petroleum Geologists and The Geological Society of America. Tulsa,
Okla.

Jour. Petroleum Technology --Journal of Petroleum Technology. Society of Petroleum Engineers of the American Institute of Mining, Metallurgical, and Petroleum Engineers. Dallas, Tex.

Marine Geology --Marine Geology. International Journal of Marine Geology, Geochemistry, and Geophysics. Elsevier Publishing Company. Amsterdam, Netherlands.

Micropaleontology -- Micropaleontology. American Museum of Natural History. New York, N.Y.

Mining Eng. --Mining Engineering. American Institute of Mining, Metallurgical, and Petroleum Engineers. New York, N.Y.

Moskov. Obshch. Ispytateley Prirody Byull., Otdel Geol. --Byulleten Moskovskogo Obshchestva Ispytateley Prioridy, Otdel Geologicheskiiy. Moscow, U.S.S.R.

Munger Oil Inf. Service, Map Books --Munger Oil Information Service, Field Maps. Los Angeles, Calif.

Nat'l. Coastal Shallow Water Res. Conf., Abs., No. 2 --National Coastal Shallow Water Research Conference Abstracts, Number 2, University Press, University of Southern California. Los Angeles, Calif.

Nat'l Parks and Conservation Magazine --National Parks and Conservation Magazine. National Parks and Conservation Association, Wash. D.C.

Nat. Resources Jour. --Natural Resources Journal. University of New Mexico School of Law. Albuquerque, New Mex.

Naturwissenschaften --Die Naturwissenschaften, Organ der Max Planck Gesellschaft zur Forderung der Wissenschaften; Organ der Gesellschaft Deutscher Naturforscher und Arzte. Berlin, Germany.

New Scientist —New Scientist. New Science Publications. London,
England.

Offshore Tech. Conf., Prepr. --Offshore Technology Conference, Pre-
prints. Houston, Texas.

Oil and Gas Jour. --Oil and Gas Journal. Petroleum Publishing Company.
Tulsa, Okla.

Pacific Discovery -- Pacific Discovery. California Academy of Sciences.
San Francisco, Calif.

Photogrammetria --Photogrammetria. Official Journal of the International
Society for Photogrammetry. N.V. Uitgeverij. The Hague, Netherlands.

Pipeline Gas Jour. -- Pipeline & Gas Journal. Petroleum Engineer
Publishing Company. Dallas, Texas.

Polar Rec. -- The Polar Record. The Scott Polar Research Institute.
Cambridge, England.

Polarforschung -- Polarforschung. Vesperland-Verlag. Holzminden,
Federal Republic of Germany.

Prof. Geographer -- Professional Geographer. Journal of the Association
of American Geographers. Washington, D.C.

Readings in Earth Sciences -- Readings in Earth Sciences. Van Nostrand
Reinhold Co. New York, N.Y.

Science-- Science. American Association for the Advancement of
Science. Washington, D. C.,

Sci. Alaska — Science in Alaska. Proceedings of the Alaskan Science
Conference. Alaska Division of the American Association for the
Advancement of Science. College, Alaska.

Sci. Prog. Decouverte -- Science Progres Decouverte. Revue publiee
avec le participation du Palais de la Decouverte et de la Societe
des Ingenieurs Civils de France. Dunod Editeur. Paris, France.

Smithsonian Contr. Paleobiology -- Smithsonian Contributions in
Paleobiology (Smithsonian Institution). Washington, D.C.

Soc. Mining Engineers Trans. -- Transactions of the Society of Mining
Engineers. Society of Mining Engineers of AIME. New York, N.Y.

Soc. Prof. Well Log Analysts -- Society of Professional Well Log Analysts.
Houston, Tex.

Soc. Venez. Geol. Bol. -- Sociedad Venezolana de Geologos Boletin.
Caracas, Venez.

Symposium on Significant Results Obtained from Earth Resources Tech-
nology Satellite -1, Third -- Symposium on Significant Results
Obtained from Earth Resources Technology Satellite -1, Third.
National Aeronautics and Space Administration. Washington, D.C.

Tectonophysics -- Tectonophysics. Elsevier Scientific Publishing
Company. Amsterdam, Netherlands.

UMR Jour. -- UMR Journal. Director of Publications. University of
Missouri at Rolla. Rolla, Mo.

U.S. Army Corps Engineers Cold Regions Research and Eng. Lab. Research
Rept. -- United States Army, Corps of Engineers, Cold Regions
Research and Engineering Laboratory Research Report. Hanover, N.H.

U.S. Bur. Mines Mineral Yearbook -- United States Bureau of Mines,
Mineral Yearbook. Washington, D.C.

U.S. Bur. Mines open-file Report -- United States Bureau of Mines
open-file report. Washington, D.C.

U.S. Bur. Mines Rept. Inv. -- United States Bureau of Mines Report of
Investigations. Washington, D. C.

U.S. ESSA Tech. Rept. -- United States ESSA Technical Report (formerly
U.S. Coast and Geod. Survey Tech. Bull.). United States Depart-
ment of Commerce, Environmental Science Services Administration,
Coast and Geodetic Survey, Rockville, Md.

U.S. Geol. Survey Alaska Tech. Data -- United States Geological Survey
Alaska Technical Data. Menlo Park, Calif.

U.S. Geol. Survey Alaska Topog. Ser. Map -- United States Geological
Survey Alaska Topographic Series Map. Reston, Va.

U.S. Geol. Survey Bull. -- United States Geological Survey Bulletin.
Reston, Va.

U.S. Geol. Survey Circ. -- United States Geological Survey Circular.
Reston, Va.

U.S. Geol. Survey Mineral Inv. Field Studies Map -- United States
Geological Survey Mineral Investigations Field Studies Map.
Reston, Va.

U.S. Geol. Survey Misc. Geol. Inv. Map -- United States Geological
Survey Miscellaneous Geological Investigations Map. Reston, Va.

U.S. Geol. Survey Natl. Atlas -- United States Geological Survey
National Atlas. Reston, Va.

U.S. Geol. Survey open-file report -- United States Geological Survey
open-file report. Reston, Va.

U.S. Geol. Survey Prof. Paper -- United States Geological Survey
Professional Paper. Reston, Va.

U.S. Geol. Survey Research Jour. -- Journal of Research of the U.S.
Geological Survey. Reston, Va.

U.S. Geol. Survey State Base Map -- United States Geological Survey
Alaska Maps A and B. Reston, Va.

U. S. Geol. Survey Water Resources-Inv. --United States Geological
Survey, Water Resources-Investigations. Reston, Va.

U.S. Geol. Survey Water-Supply Paper. United States Geological Survey
Water-Supply Paper. Reston, Va.

U.S. Navy Electronics Lab. Rept. -- United States Navy Electronics
Laboratory Report. Washington, D. C.

World Petroleum -- World Petroleum. New York, N.Y.