UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Bibliographies and location maps of publications on aeromagnetic and aeroradiometric surveys for Hawaii and Alaska

by

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Open-File Report 91-370-E

1991

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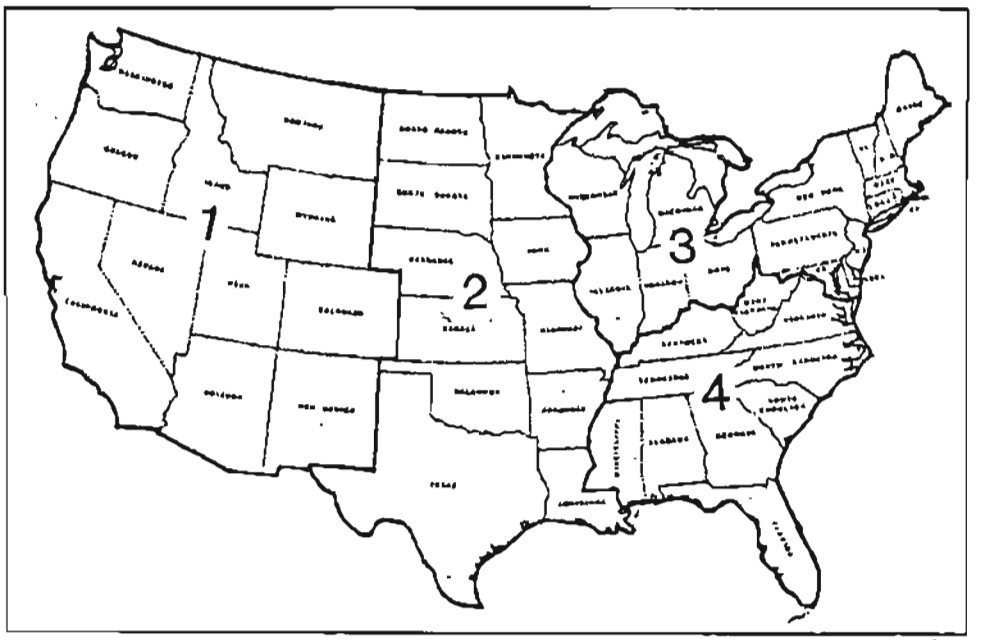
AEROMAGNETIC AND AERORADIOMETRIC INDEXES

Bibliographies and location maps of selected publications containing aeromagnetic and/or aeroradiometric data have been compiled for each state. These state indexes have been grouped together to form six open-file reports: four for the conterminous United States (see index map below), one for Alaska and Hawaii, and one for Puerto Rico and large areas of the United States (U.S. Regional). The Department of Energy (DOE) National Uranium Resource Evaluation (NURE) Program publications are included in the Area reports.



The open-file report numbers in this series are:

Area 1	OF 91-370-A	Area 4	OF 91-370-D
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In addition to U.S. Geological Survey (USGS) publications, the indexes include maps and interpretation reports published by various states, universities, other government agencies, professional societies, and a few by private industry which are <u>available only from those sources</u>. These sources are given in each index if their availability is known.

General information on USGS airborne coverage can be obtained from: U.S. GEOLOGICAL SURVEY, BRANCH OF GEOPHYSICS, FEDERAL CENTER, BOX 25046, MS 964, DENVER, CO 80225 (303-236-1343, FTS 776-1343; messages 303-236-1212, FTS 776-1212).

PUBLICATIONS

Unless otherwise noted, professional papers, bulletins, open-file reports, etc., are USGS publications. Many of the publications listed are Geophysical Investigations Maps (GP) and other USGS maps (MF, I, etc.). These may be purchased from: U.S. GEOLOGICAL SURVEY, MAP DISTRIBUTION, FEDERAL CENTER, BLDG. 810, BOX 25286, DENVER, CO 80225 (303-236-7477, FTS 776-7477). Requests originating in Alaska for maps of Alaska may be sent to: U.S. GEOLOGICAL SURVEY, ALASKA DISTRIBUTION SECTION, NEW FEDERAL BLDG., BOX 12, 101 TWELFTH AVENUE, FAIRBANKS, AK 99701.

Professional papers and bulletins that are not out of print can be purchased over the counter from the USGS Public Inquiries Offices located in Anchorage, Dallas, Denver, Los Angeles, Menlo Park, Reston, Salt Lake City, San Francisco, Spokane, and Washington, D.C. They may also be purchased by mail from: U.S. GEOLOGICAL SURVEY, BOOKS AND OPEN-FILE REPORTS, FEDERAL CENTER, BLDG. 41, BOX 25425, DENVER, CO 80225 (303-236-7476, FTS 776-7476). Do not mix map and book orders!

Most all USGS open-file reports are available in microfiche or paper copies from the address above. They are available only by mail. Open-file reports may be examined at libraries and certain offices of the USGS, State Surveys and universities. These locations are noted in each state index.

Dept. of Energy - NURE Program reports are now being handled by the USGS. They are available, by mail only, in microfiche or paper copies from the USGS BOOKS AND OPEN-FILE REPORTS address above. These reports may be examined at the USGS libraries and certain State Survey offices.

Prices for USGS publications are published in the monthly listing "New Publications of the Geological Survey". Current price and availability information for older publications and the NURE Program reports can be obtained by contacting the appropriate location listed above. Prepayment is required when ordering.

Some of the publications listed are in professional journals, technical books and out-of-print government books/reports. These may be viewed at USGS libraries and many university and public libraries.

DIGITAL DATA

Most of the post-1972 USGS airborne data and certain other data sets are available in digital form. Information on which areas are available and duplication costs can be obtained from: NATIONAL GEOPHYSICAL DATA CENTER, NOAA, CODE E/GC12, 325 BROADWAY, BOULDER, CO 80303 (303-497-6128, FTS 320-6128).

The digital data from the NURE Program and certain whole state and large area merged data sets are available from: U.S. GEOLOGICAL SURVEY, EROS DATA CENTER, USER SERVICES, SIOUX FALLS, SD 57198 (605-594-6511, FTS 784-7511).

Map ref.

Other publications of interest; not shown on index map:

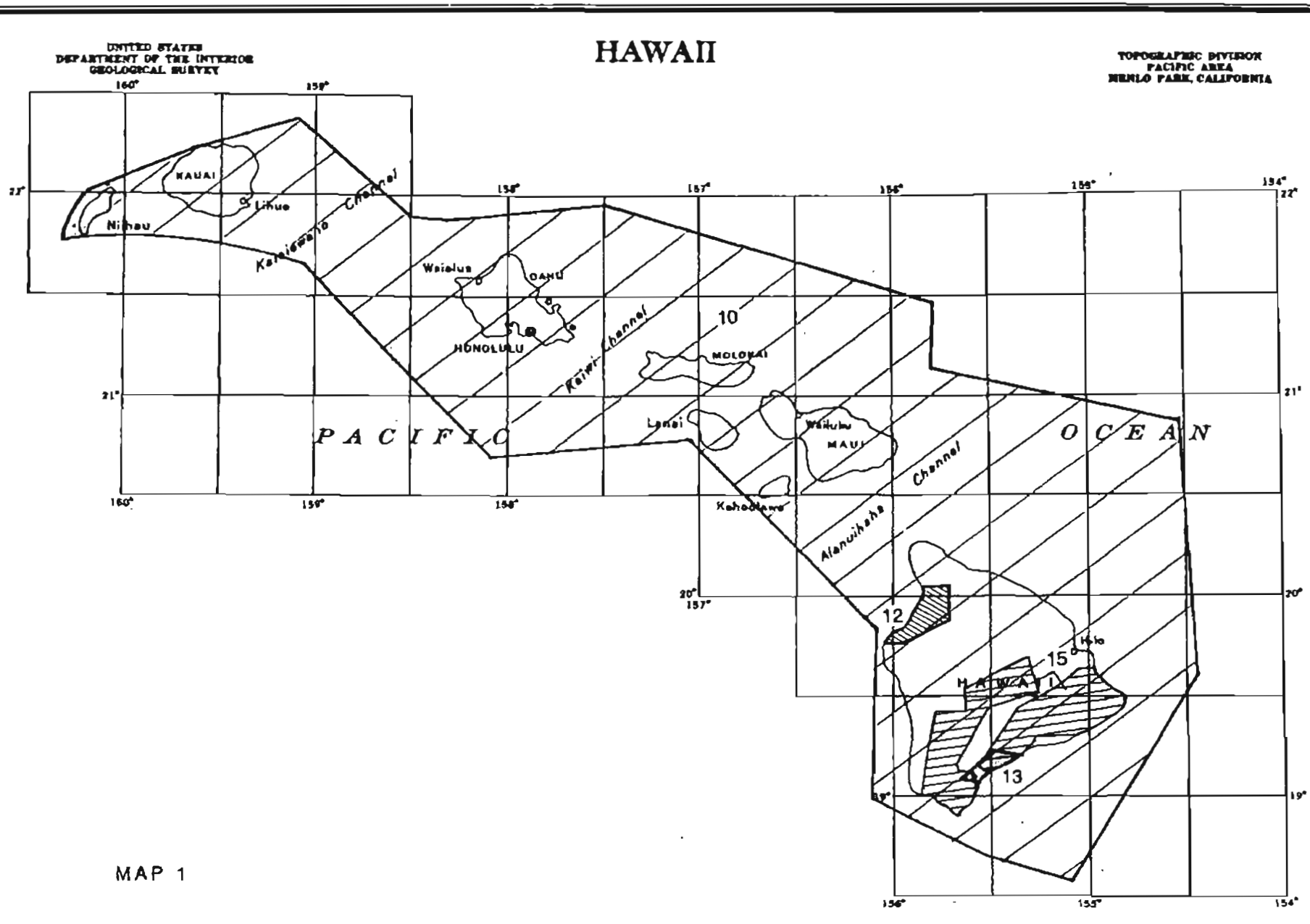
Magnetic and tectonic trends over the Hawaiian Ridge, by Alexander Malahoff and G. P. Woollard, in The Crust and upper mantle of the Pacific area, Am. Geophys. Union Mon. no. 12, p. 241-276, 1968.
(Covers most of the map area)

Geophysical studies of the Hawaiian Ridge and Murray fracture zone, by Alexander Malahoff and G. P. Woollard, in The Sea, v. 4, pt. II, New Concepts of seafloor evolution, Wiley-Interscience, p. 73-131, 1970.
(Fig. 10 is a combination of aeromagnetic and shipborne magnetic data)
(Covers most of the map area)

A hydrogeophysical survey using remote-sensing methods from Kawaihae to Kailua-Kona, Hawaii, by W. M. Adams, Ground Water, v. 9, no. 1, p. 42-50, 1971.

Geophysical exploration on the structure of volcanoes; two case histories, by A. S. Furmoto, Univ. Hawaii Inst. Geophysics Contributions, v. 1974, p. 643-660, 1975.

Investigation of geothermal potential in the Waianae Caldera area, western Oahu, Hawaii, by M. E. Cox and others, 76 p., Univ. Hawaii Inst. Geophysics Rept. HIG-79-8, 1979.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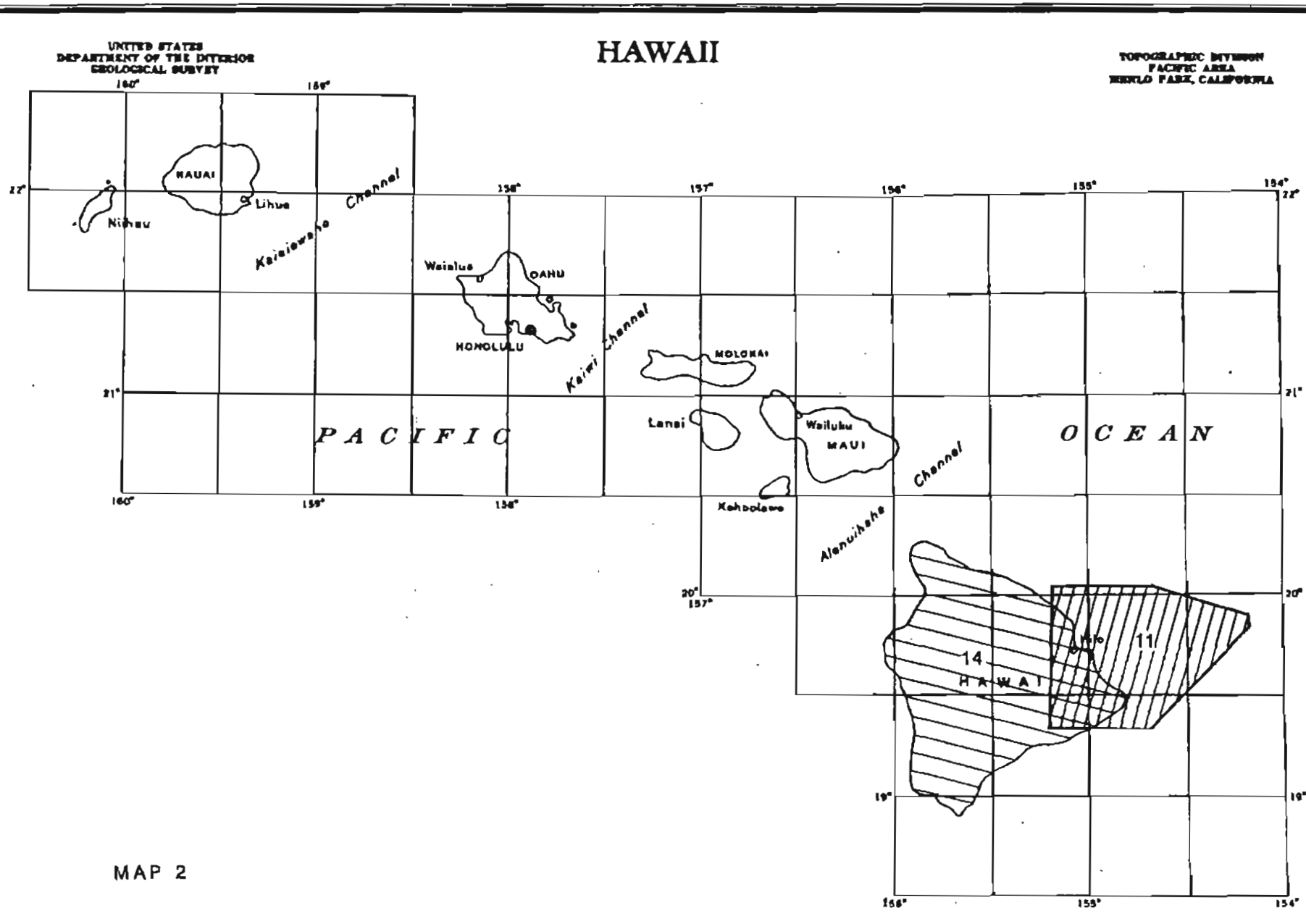
MAP 1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An aeromagnetic reconnaissance of the Cook Inlet area, Alaska, by Arthur Grantz, Isidore Zietz, and G. E. Andreasen, 17 p., 5 plates, scale 1:500,000, Prof. Paper 316-G, 1963..... 20
(Shows aeromagnetic profiles at 1-10 mile spacing)

Aeromagnetic map of part of the Dillingham Quadrangle, Alaska, by J. R. Henderson and others, scale 1:125,000, GP-352, 1963..... 21

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Aeromagnetic map of parts of the Ugashik and Karluk quadrangles, Alaska, by G. E. Andreasen and others, scale 1:125,000, GP-354, 1963..... 23

Aeromagnetic reconnaissance of the east-central Tanana Lowland, Alaska, by G. E. Andreasen, Clyde Wahrhaftig, and Isidore Zietz, scale 1:125,000, GP-447, 1964..... 24

Preliminary geologic interpretation of aeromagnetic data in Yakutat district, Alaska, by G. H. Johnson and George Plafker, 13 p., 5 sheets, scale 1:63,360, OF Rept. 69-134, 1969..... 25

Airborne radioactivity and total intensity magnetic survey of the southern Kobuk-Selawik Lowland, western Alaska, by T. P. Miller and L. A. Anderson, 6 p., 10 sheets, scale 1:63,360, OF Rept. 69-170, 1969..... 26
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Aeromagnetic maps of part of the southern Alaska Range, by B. L. Reed and L. A. Anderson, 6 p., scale 1:63,360, OF Rept. 69-215, 1969..... 27

Reconnaissance geologic map, analyses of bedrock and stream sediment samples, and an aeromagnetic map of parts of the southern Alaska Range, by B. L. Reed and R. L. Elliott, 145 p., 4 sheets, OF Rept. 70-271, 1970.. 27

Airborne geophysical surveys in Seward Peninsula area, Alaska, 11 sheets, scale 1:63,360, OF Rept. 69-294, 1969..... 28, 29 & 30
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Aeromagnetic and generalized geologic map of the west-central part of the Seward Peninsula, Alaska, by G. R. Johnson and C. L. Sainsbury, scale 1:125,000, GP-881, 1974..... 29

Geology, mineral deposits, and geochemical and radiometric anomalies, Serpentine Hot Springs area, Seward Peninsula, Alaska, by C. L. Sainsbury and others, 19 p., scale 1:63,360, Bulletin 1312-H, 1970..... 30

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Geologic interpretation of reconnaissance aeromagnetic survey of northeastern Alaska, by W. P. Brosge, E. E. Brabb, and E. R. King, 14 p., scale 1:1,000,000, Bulletin 1271-F, 1970..... 31

Preliminary interpretation of geophysical data from the lower Noatak River basin, Alaska, by D. F. Barnes and I. L. Tailleur, 24 p., aeromagnetic map scale 1:250,000, OF Rept. 70-018, 1970..... 32

Gravity and other regional geophysical data from northern Alaska, by D. F. Barnes, in, Geological seminar on the North Slope of Alaska, Am. Assoc. Pet. Geol., Pacific Section, p. I1-I20, 1970..... 32
(Also shows 10 aeromagnetic profiles taken from ref. 31)

Earth-science studies of a nuclear test area in the western Aleutian Islands: An interim summary of results, by W. J. Carr and others, Geol. Soc. Am. Bull., v. 82, no. 3, p. 699-706, 1971..... 33
(Fig. 3 is an aeromagnetic map, scale 1:500,000)

Interpretation of an aeromagnetic survey of the Amchitka Island area, Alaska, by G. D. Bath and others, 25 p., scale 1:100,000, Prof. Paper 707, 1972... 33

Aeromagnetic data from S.W. Naval Petroleum Reserve, Alaska, 4 sheets, OF Rept. 72-383, 1972..... 34
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Map showing relation between aeromagnetic data and geology, southern National Petroleum Reserve in Alaska, by H. A. Gibson and I. L. Tailleur, 3 sheets, scale 1:250,000 and 1:63,360, OF Rept. 80-516, 1980..... 34
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Results of an aeromagnetic survey in the Gulf of Alaska, by P. T. Taylor and N. J. O'Neill, Jour. Geophys. Res., v. 79, no. 5, p. 719-723, 1974.... 46

Petrology of the Duke Island ultramafic complex, southeastern Alaska, by T. N. Irvine, 240 p., Geol. Soc. Am. Mem. no. 138, 1974..... 47
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Aeromagnetic map of the Nabesna Quadrangle, Alaska, by Andrew Griscom, 2 sheets, scale 1:250,000, MF-655-H, 1975..... 48

Aeromagnetic map of the McCarthy 1:250,000 (1^{o} x 3^{o}) Quadrangle, Alaska, scale 1:250,000, OF Rept. 76-170, 1976..... 49

Aeromagnetic map and geologic interpretation of aeromagnetic map. McCarthy Quadrangle, Alaska, by J. E. Case and E. M. MacKevett, Jr., 2 sheets, scale 1:250,000, MF-773-D, 1976..... 49

Aeromagnetic map of the west one-half of the Ruby 1:250,000 (1^{o} x 3^{o}) Quadrangle, Alaska, scale 1:250,000, OF Rept. 76-188, 1976..... 50

Aeromagnetic maps of Granite Fiords Wilderness Study Area, Ketchikan and Bradfield Canal quadrangles, southeastern Alaska, 15 sheets, scale 1:63,360, OF Rept. 76-558, 1976..... 51
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Mineral resources of the Granite Fiords Wilderness Study Area, Alaska, by H. C. Berg and others, with a section on Aeromagnetic data, by A. Griscom, 151 p., scale 1:125,000, Bulletin 1403, 1977..... 51

Aeromagnetic map of the Tanacross Quadrangle, Alaska, by A. Griscom, 2 sheets, scale 1:250,000, MF-767-A, 1976..... 52

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Aeromagnetic interpretation of the Big Delta Quadrangle, Alaska, by Andrew Griscom, 11 p., scale 1:250,000, OF Rept. 78-529B, 1978..... 65

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Aeromagnetic map of southwestern Brooks Range, Alaska, by S. W. Hackett, scale 1:500,000, Alaska Div. Geol. Geophys. Surveys Geol. Rept. 56, 1978.. 70

Aeromagnetic map of parts of the Cordova and Middleton Island 1° x 3° quadrangles, Alaska, scale 1:250,000, OF Rept. 79-223, 1979..... 71

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Mineral resources of the Tracy Arm-Fords Terror Wilderness Study Area and vicinity, Alaska, by U.S. Geological Survey and U.S. Bureau of Mines, with a chapter on Interpretation of the aeromagnetic data, by R. C. Jachens, 308 p., scale 1:125,000, Bulletin 1525, 1984..... 95

Low-altitude aeromagnetic reconnaissance for petroleum in the Arctic National Wildlife Refuge, Alaska, by T. J. Donovan and others, Geophysics, v. 49, no. 8, p. 1338-1353, 1984..... 96

Composite magnetic anomaly map of the United States; Part B, Alaska and Hawaii, (in color), compiled by R. H. Godson, 8 p., 2 sheets, scale 1:2,500,000, GP-0954-B, 1984..... whole state

Preparation of magnetic anomaly maps of Alaska and Hawaii, by R. H. Godson, in The utility of regional gravity and magnetic anomaly maps, W. J. Hinze, ed., Soc. Explor. Geophys., p. 25-32, 1985..... whole state

Aeromagnetic map of part of the Wrangell Mountains, Alaska, scale 1:250,000, OF Rept. 85-605, 1985..... 97

Geothermal energy resource investigations in the eastern Copper River Basin, Alaska, by E. M. Wescott and D. L. Turner, 158 p., 8 plates, scale 1:63.360. Univ. Alaska Geophys. Institute Rept. UAG R-302, 1985..... 98

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Geothermal energy resource exploration of the eastern Copper River Basin, Alaska, by E. M. Wescott and D. L. Turner, Geothermal Resources Council Trans., v. 7, p. 211-213, 1983..... 98
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Reconnaissance magnetic anomaly map of the Chukchi Sea and adjacent northwest Alaska, by C. H. Cramer and others, scale 1:1,000,000, I-1182-F, 1986. 99
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Maps showing aeromagnetic survey and geologic interpretation of the Valdez Quadrangle, Alaska, by J. E. Case, L. E. Burns, and G. R. Winkler, 2 sheets, scale 1:250,000, MF-1714, 1986..... 100

Horizontal-gradient magnetic and helium surveys, by K. I. Cunningham, A. A. Roberts, and T. J. Donovan, in Bulletin 1778, p. 209-218, 1987..... 101
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Profiles showing models of magnetic structures in accreted terranes of south-central Alaska, by D. L. Campbell, 2 sheets, scale 1:500,000, MF-1912, 1987..... 102

Geology and mineral resources of the White Mountains National Recreation Area, east-central Alaska, by F. R. Weber and others, 234 p., 29 sheets, aeromagnetic map scale 1:63,360, OF Rept. 88-284, 1988..... 103

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Interpretation of magnetic maps of the northern Gulf of Alaska, with emphasis on the source of the Slope anomaly, by Andrew Griscom and P. E. Sauer, 18 p., OF Rept. 90-348, 1990..... 84 & 104

Results of a gravity survey of McCarthy's Marsh, Seward Peninsula, Alaska, by D. F. Barnes and R. L. Morin, 12 p., 2 sheets, aeromagnetic map scale 1:63,360, OF Rept. 88-546, 1988..... 105

Maps showing aeromagnetic survey and geologic interpretation of the Ugashik and part of the Karluk quadrangles, Alaska, by J. E. Case and others, 2 sheets, scale 1:250,000, MF-1539-D, 1988..... 106

Pre-field study and mineral resource assessment of the Sleetmute Quadrangle, southwestern Alaska, by M. L. Miller and others, 115 p., 3 sheets, scale 1:250,000, OF Rept. 89-363, 1989..... 107

Geologic implications of topographic, gravity, and aeromagnetic data in the northern Yukon-Kotukuk Province and its borderlands, Alaska, by J. W. Cady, Jour. Geophys. Res., v. 94, no. B11, p. 15,821-15,841, 1989... 108

See page 23 and Map 4 for additional publications from the State of Alaska.

Arctic Ocean publications that contain aeromagnetic contours and/or profiles; not located on index maps:

Geophysical investigations of the Arctic Ocean Basin, by N. A. Ostenso, 124 p., University of Wisconsin Geophys. and Polar Res. Center Rept. 62-4, 1962.

Magnetic data on the structure of the central Arctic region, by E. R. King, Isidore Zietz, and L. R. Alldredge, Geol. Soc. Am., Bull. V. 77, no. 6, p. 619-646, 1966.

Magnetic and gravity profiles across the Alpha cordillera and their relation to Arctic sea-floor spreading, by P. R. Vogt and N. A. Ostenso, Jour. Geophys. Res., v. 75, no. 26, p. 4925-4937, 1970.

Aeromagnetic survey of the Arctic Ocean; techniques and interpretations, by N. A. Ostenso and R. J. Wold, Marine Geophys. Research, v. 1, no. 2, p. 178-219, 1971.

Magnetic anomalies and the evolution of the Arctic, by R. L. Coles, W. Hannaford, and G. V. Haines, in, Arctic geophysical review, Canada Earth Physics Branch Pub., v. 45, no. 4, p. 51-66, 1978. (Contours extend onshore)

Detailed aeromagnetic investigation of the Arctic Basin, by P. R. Vogt, P. T. Taylor, and L. C. Kovacs, Jour. Geophys. Res., v. 84, no. B3, p. 1071-1089, 1979.

Detailed aeromagnetic investigation of the Arctic Basin, 2, by P. T. Taylor and others, Jour. Geophys. Res., v. 86, no. 7, p. 6323-6333, 1981.

Structure and plate tectonic evolution of the marine Arctic as revealed by aeromagnetics, by P. Vogt and others, 26th Internat. Geol. Cong., Oceanologica Acta, 4, supplement, p. 25-40, 1981.

Depth-to magnetic source analysis of the Arctic Ocean region, by L. C. Kovacs and P. R. Vogt, Tectonophysics, v. 89, no. 1-3, p. 255-294, 1982.

The Canada Basin; aeromagnetic constraints on structure and evolution, by P. R. Vogt and others, Tectonophysics, v. 89, no. 1-3, p. 295-336, 1982.

Nature of the Canada Basin--Implications from satellite-derived magnetic anomaly data, by P. T. Taylor, Jour. Alaska Geol. Soc., v. 2, p. 1-8, 1983. (Includes aeromagnetic data from JGR v. 86, above.)

Magnetic data over the Arctic from aircraft and satellites, by P. T. Taylor, in Arctic energy resources, Louis Rey, ed.; in the collection Energy Research, Elsevier Sci. Publ., no. 2, p. 35-40, 1983.

Amerasian Basin, Arctic Ocean; magnetic anomalies and their decipherment, by P. R. Vogt and others, 27th Internat. Geol. Cong., Arctic Geology, Colloquium 04, p. 152-161, 1984.

Residual magnetic anomaly chart of the Arctic Ocean region, by L. C. Kovacs and others, scale 1:6,000,000, Geol. Soc. Am. Map and Chart Series MC-53, 1985.

Arctic Ocean publications--cont'd:

Results from an aeromagnetic investigation of the Nares Strait region, by L. C. Kovacs, S. P. Srivastava, and H. R. Jackson, Jour. Geodynamics, v. 6, no. 1-4, p. 91-110, 1986.

Alpha Ridge and Iceland; products of the same plume?, by D. A. Forsyth and others, Jour. Geodynamics, v. 6, no. 1-4, p. 197-214, 1986.

Summary of Arctic geophysics, by H. R. Jackson and G. L. Johnson, Jour. Geodynamics, v. 6, no. 1-4, p. 245-262, 1986.

Magnetic Anomalies, by R. L. Coles and P. T. Taylor; in The Arctic Ocean Region, The Geology of North America, Geol. Soc. Am., vol. L, p. 119-132, 1989. (Pl. 4 is a profile map of the Arctic Ocean, scale 1:6,000,000)

The structures of the Alpha Ridge, Arctic Ocean and Iceland-Faeroe Ridge, North Atlantic: Comparisons and implications for the evolution of the Canada Basin, by J. R. Weber, Marine Geol., v. 93, no. 1-4, p. 43-68, 1990.

Features of the Canadian polar margin, by D. A. Forsyth and others, Marine Geol., v. 93, no. 1-4, p. 147-177, 1990.
(Covers the western half of the Arctic and has a color-contoured map.)

Other publications of interest; not located on index maps:

Preliminary report on magnetic anomalies between Adak, Alaska, and Kwajalein, Marshall Islands, by L. R. Alldredge and Fred Keller, Jr., Am. Geophys. Union Trans., v. 30, no. 4, p. 494-500, 1949.

Total intensity aeromagnetic profiles of Hogatza Uplift, Alaska, by W. J. Dempsey, J. L. Meuschke, and G. E. Andreasen, scale 1:250.000, OF Rept. 57-034, 1957. (Contains 3 profiles in parts of the Hughes, Shungnak, and Kateel River quadrangles)

Preliminary interpretation of total-intensity aeromagnetic profiles of the Koyukuk area, Alaska, by Isidore Zietz, W. W. Patton, Jr., and W. J. Dempsey, 6 p., 8 sheets, scale 1:250,000, OF Rept. 59-132, 1959. (Contains 13 profiles in the Candle, Kateel River and adjacent quadrangles)

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Total intensity aeromagnetic profiles of the Minchumina area, Alaska, by G. E. Andreasen, 3 sheets, scale 1:250,000, OF Rept. 60-008, 1960. (Contains 5 profiles in the Mt. McKinley and parts of the Kantishna River and Fairbanks quadrangles)

An aeromagnetic profile from Anchorage to Nome, Alaska, by E. R. King, Geophysics, v. 26, no. 6, p. 716-726, 1961.

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Oil fields and aeromagnetic anomalies, by N. C. Steenland, Geophysics, v. 30, no. 5, p. 706-739, 1965.

The Kaltag fault, west-central Alaska, by W. W. Patton, Jr., and J. M. Hoare, in Prof. Paper 600-D, p. 147-153, 1968.
(Contains two aeromagnetic profiles from ref. 15)

Geologic interpretation of a residual aeromagnetic map of the Nixon Fork District, Alaska, by L. A. Anderson, B. L. Reed, and G. R. Johnson, in Prof. Paper 700-D, p. 129-133, 1970.

Preliminary residual magnetic map of the eastern Bering Shelf and parts of western Alaska, by K. A. Bailey and others, 3 sheets, scale 1:1,000,000, MF-716, 1976. (Shows aeromagnetic profiles from ref. 14, contours from refs. 21, 22, 23, & 61)

Significance of space image linears in Alaska, by E. H. Lathram and N. R. Albert, Utah Geol. Assoc. Pub. 5, p. 11-26, 1976. (Shows aeromagnetics in two areas in northern Alaska.)

Preliminary aeromagnetic profiles of central Alaska, by John Decker and Susan Karl, scale 1:1,000,000, OF Rept. 77-168F, 1977. (Profiles from DOE-NURE, OF 60-8, and OF 78-471)

Geologic interpretation of a radioactivity anomaly near the West Fork of the Buckland River, Western Alaska, by T. P. Miller, OF Rept. 77-372, 1977. (Data from DOE-NURE; located center of Candle quadrangle.)

The origin of low-level airborne radiometric anomalies in the Copper River basin region, Alaska, by R. B. Forbes, J. R. Carden, and J. M. Zdepski, 57 p., U.S. Dept. Energy, Grand Junction Office Rept. GJBX-62(77), 1977.

Aeromagnetic profiles of Seward Peninsula, Alaska, by John Decker and Susan Karl, scale 1:1,000,000, OF Rept. 77-796F, 1977. (Profiles from DOE-NURE)

Gravity survey of Beluga Basin and adjacent area, Cook Inlet region, south-central Alaska, by S. W. Hackett, 29 p., 3 sheets, Alaska Div. Geol. Geophys. Surveys Geol. Rept. 49, 1977. (Shows parts of two aeromagnetic profiles taken from ref. 20)

Aeromagnetic profiles of Holitna, Minchumina, Innoko, and Tanana Lowlands, Alaska, 7 sheets, scale 1:250,000, OF Rept. 78-471, 1978.

Megalineament in southeastern Alaska marks southwest edge of Coast Range batholithic complex, by D. A. Brew and A. B. Ford, Canada Jour. Earth Sci., v. 15, no. 11, p. 1763-1772, 1978. (Shows aeromagnetic contours taken from refs. 51 and 95)

Aeromagnetic profiles of Bering Glacier, Mt. St. Elias, and Yakutat 1° x 3° quadrangles, Alaska, 2 sheets, scale 1:250,000, OF Rept. 79-224, 1979. (10 profiles)

Other publications--cont'd.:

Aeromagnetic profile map of southeastern Alaska, by John Decker, M. W. Mullen, and C. E. Schwab, scale 1:1,000,000, OF Rept. 81-505, 1981. (Profiles from DOE-NURE)

Interpretation of NURE aerial radiometric and hydrogeochemical and stream sediment reconnaissance data, by D. F. Saunders, D. K. Jordt, and J. H. Galbraith, U.S. Dept. Energy, Grand Junction Office Rept. GJBX-032(81), 1981. (Shows a small contoured radiometric map of south and central Alaska)

Summary of radiometric anomalies in Alaska, by K. A. Dickinson, J. E. Morrone, and M. E. Roberts, 1 sheet, scale 1:2,500,000, OF Rept. 83-169, 1983.

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Magnetic profile across accreted terranes, Mount Hayes Quadrangle, eastern Alaska Range, Alaska, by D. L. Campbell and W. J. Nokleberg, Circular 939, p. 44-47, 1985.

Strong magnetic and gravity contrasts across the Talkeetna, Totschunda, and Eureka Creek faults versus the lesser geophysical expression of the Denali Fault and its strands: A geological puzzle for TACT program, by D. F. Barnes and Bela Csejtey, Jr., Circular 945, p. 65-68, 1985.

Magnetic profile across Denali Fault, Mount Hayes Quadrangle, Eastern Alaska Range, by D. L. Campbell and W. J. Nokleberg, Circular 945, p. 68-72, 1985.

A-2 Kodiak to Kushokwim, Alaska, by Roland von Huene, 14 p., scale approx. 1:475,000, Centennial Continent/Ocean Transect 6, A29, 1985.

Audio-magnetotelluric resistivity traverses in the Baird Mountains Quadrangle, by C. L. Long and Bill Thompson, Circular 978, p. 13-16, 1986. (Contains a magnetic profile.)

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Magnetic model of a profile across northern Copper River Basin, northeastern Gulkana Quadrangle, by D. L. Campbell and W. J. Nokleberg, Circular 978, p. 35-38, 1986.

Accretion and subduction tectonics in the Chugach Mountains and Copper River Basin, Alaska; initial results of the Trans-Alaska Crustal Transect, by R. A. Page and others, Geology, v. 14, no. 6, p. 501-505, 1986.

Other publications--cont'd:

Sources of placer gold in the southern part of the White Mountains Recreation Area, east-central Alaska, by T. D. Light and others, Circular 998, p.67-69, 1987. (Shows aeromagnetics in the southern part of ref. 103)

Preliminary geophysical interpretation of the oceanic terranes of interior and western Alaska; evidence for thick crust of intermediate density, by J. W. Cady, in, Terrane accretion and orogenic belts, E. C. Leitch, ed., Geodynamic Series, no. 19, p. 301-305, 1987.

Near surface magnetic indicators of buried hydrocarbons; aeromagnetic detection and separation of spurious signals, by T. H. Donovan and others, Proc., 5th Thematic conference on remote sensing for exploration geology, J. J. Cook, Chair., vol. 1, p. 219-232, 1987.

Bouguer gravity data and a north-south gravity and magnetic profile from the Wiseman area, Brooks Range, Alaska, by D. T. Smith, D. B. Stone, and J. T. Dillon, Soc. Econ. Paleont. and Mineral., Pacific Section Guidebook 50, p. 725-734, 1987.

Geology and exploration of the National Petroleum Reserve in Alaska, 1974 to 1982, edited by G. Gryce; with a chapter on Low-level aeromagnetic surveying for petroleum in Arctic Alaska, by T. J. Donovan and others, Prof. Paper 1399, p. 623-632, 1988. (Shows aeromagnetics in the Barrow area)

Geophysics at Katmai; geophysical expedition to Novarupta Volcano, Katmai National Park, Alaska, by J. C. Eichelberger and others, Eos, v. 71, no. 22, p. 733-735, 1990.

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1. U.S.G.S. Library, Rm. 4-A-100, 12201 Sunrise Valley Dr., Reston, VA 22092
2. U.S.G.S. Library, Rm. C2002, Bldg. 20, Federal Center, Box 25046, Stop 914, Denver, CO 80225
3. U.S.G.S. Library, 345 Middlefield Rd., Menlo Park, CA 94025
4. P.I.O., Rm. 169, Federal Bldg., 1961 Stout St., Denver, CO 80294
5. P.I.O., Rm. 7638, Federal Bldg., 300 N. Los Angeles St., Los Angeles, CA 90012
6. P.I.O., Rm. 678, U.S. Court House, W. 920 Riverside Ave., Spokane, WA 99201
7. P.I.O., Rm. 504, Customhouse, 555 Battery St., San Francisco, CA 94111
8. P.I.O., Rm. 101, 4230 University Dr., Anchorage, AK 99508
9. U.S.G.S., Alaskan Geology Branch, Tech. Data Unit, 4200 University Dr., Anchorage, AK 99508
10. U.S.G.S., Rm. 207, O'Neill Bldg., Univ. of Alaska, Fairbanks, AK 99708
11. Alaska Div. Geol. Geophys. Surveys, 400 Willoughby Center, Juneau, AK 99801
12. Alaska Div. Geol. Geophys. Surveys, 3601 C St., Anchorage, AK 99510
13. Alaska Div. Geol. Geophys. Surveys, 794 University Ave., Fairbanks, AK 99701
14. Alaska Div. Geol. Geophys. Surveys, State Office Bldg., Box 7438, Ketchikan, AK 99901
15. Dept. Interior, Alaska Resource Library, 701 "C" St., Box 36, Anchorage, AK 99513

Aeromagnetic data available only from State of Alaska
Division of Geological and Geophysical Surveys (DGGS)
(see index map no. 4)

Map ref.

Note: Other DGGS publications are listed in the preceeding pages.

The following are Alaska DGGS open-file reports. All are at scale 1:250,000 unless otherwise noted:

Map ref.

Alaska DGGS open-files, cont'd.:

Preliminary geological interpretation (basement complex) of aeromagnetic map, Talkeetna-Kashwitna River area, by S. W. Hackett, scale 1:63,360, AOF-107J, 1979..... A26
(This map does not contain aeromagnetic profiles or contours)

Aeromagnetic map, Survey Pass Quadrangle, AOF-175, 1982..... A27

Aeromagnetic map, Wiseman Quadrangle, AOF-176, 1982..... A28
(This map is a composite of DGGS and USGS data)

Aeromagnetic map, Northern Shungnak Quadrangle, AOF-177, 1982..... A29

Aeromagnetic map, Northern Hughes Quadrangle, AOF-178, 1982..... A30

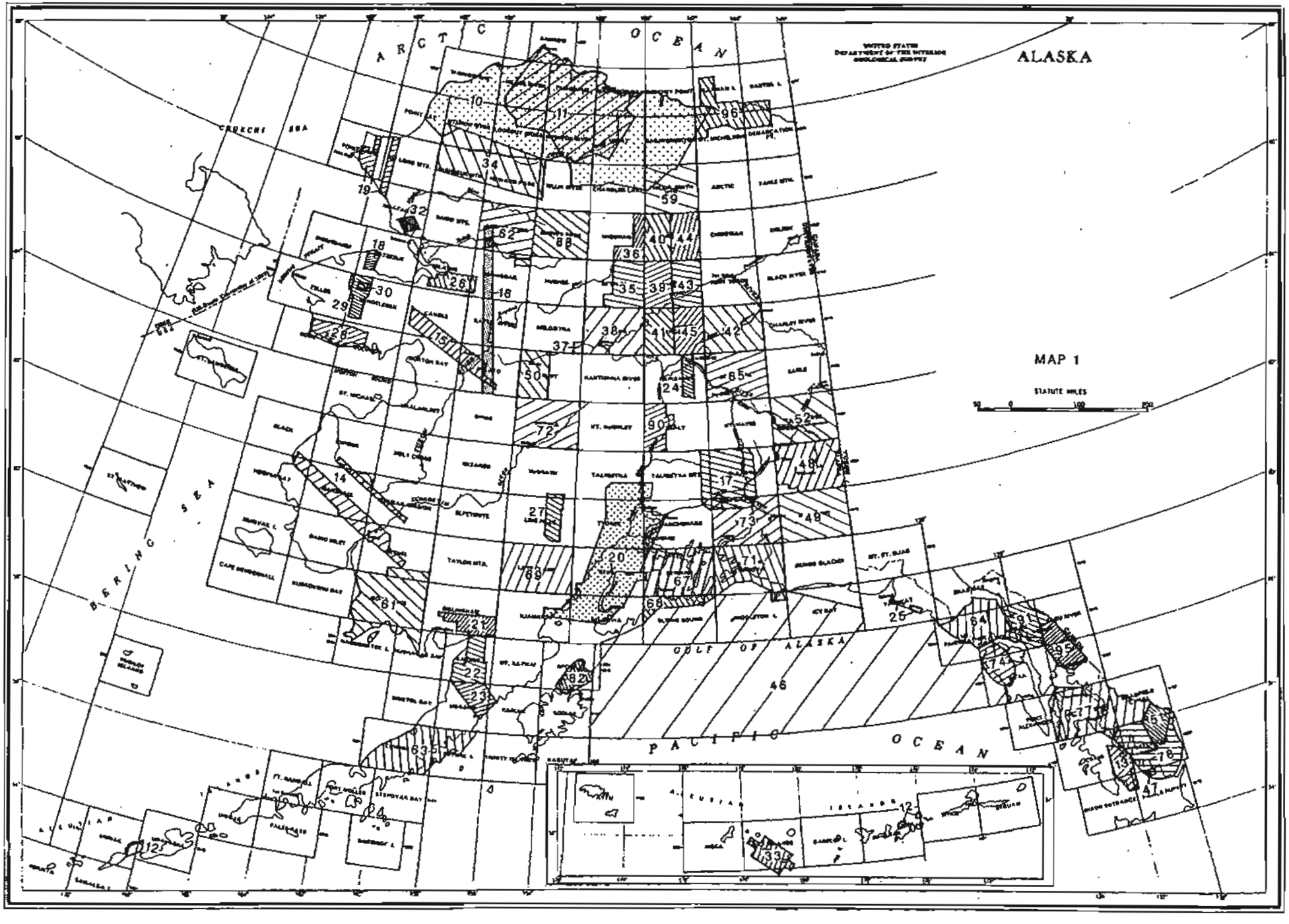
Aeromagnetic map, Bettles Quadrangle, AOF-179, 1982..... A31
(This map is a composite of DGGS and USGS data)

These aeromagnetic maps may be inspected at the Fairbanks, Anchorage, Juneau, and Ketchikan offices of the State of Alaska Division of Geological and Geophysical Surveys (see page 22). Maps at scale 1:63,360 for most of the above areas are available.

Address inquiries for ordering and price information to:

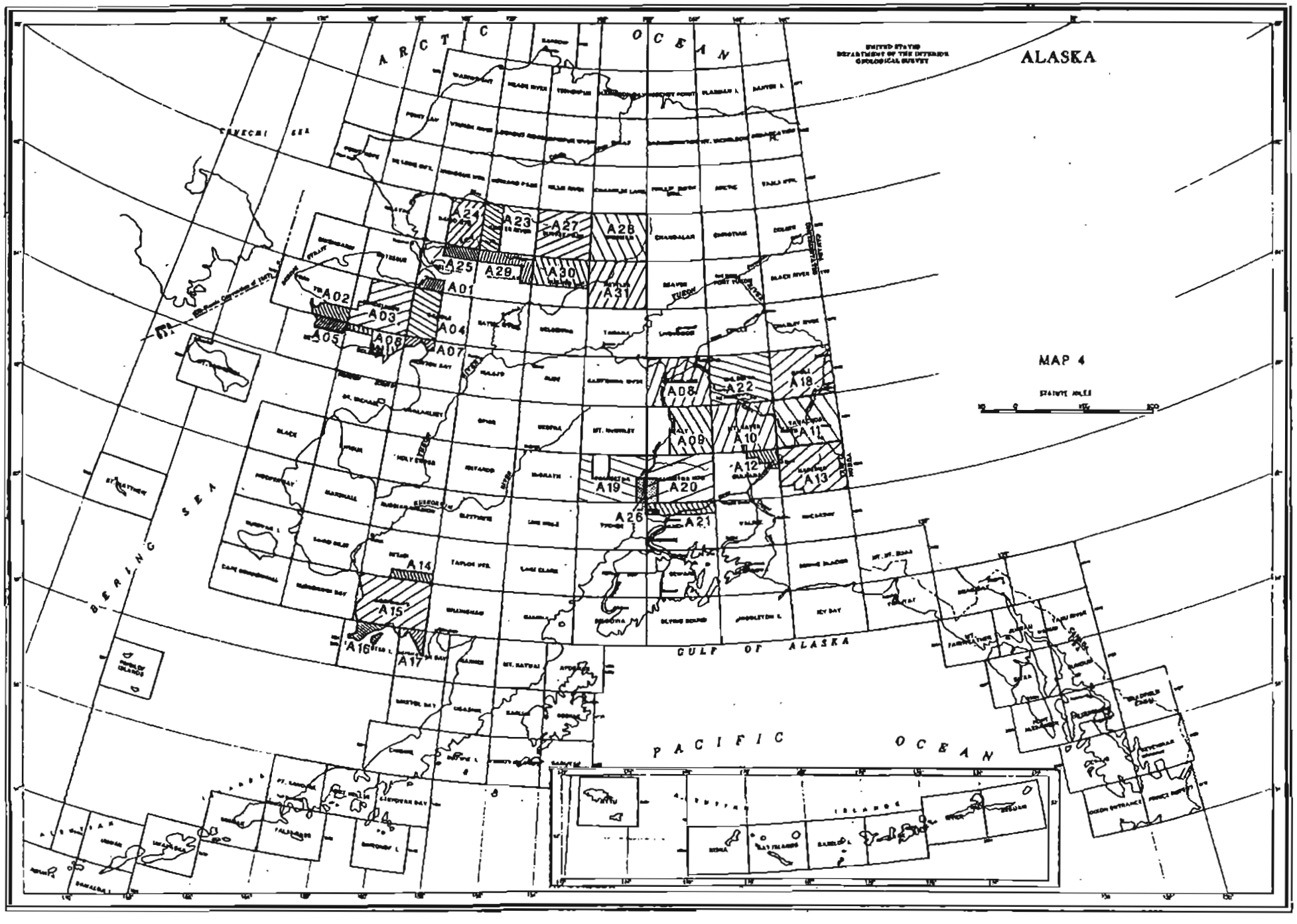
Alaska Division of Geol. and Geophys. Surveys
P.O. Box 80007
College, AK 99708

Attn. Publications


ALASKA
MAP 1
STATUTE MILES
ARCTIC OCEAN
BERING SEA
GULF OF ALASKA
PACIFIC OCEAN


ALASKA
MAP 2
STATUTE MILES
ARCTIC OCEAN
GULF OF ALASKA
PACIFIC OCEAN
BERING SEA

ALASKA
MAP 3
ARCTIC OCEAN
CHUKCHI SEA
BERING SEA
GULF OF ALASKA
PACIFIC OCEAN


ALASKA
MAP 4
ARCTIC OCEAN
BERING SEA
GULF OF ALASKA
PACIFIC OCEAN
A01
A02
A03
A04
A05
A06
A07
A08
A09
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ALASKA AREA DOE-NURE AIRBORNE INDEX

Note: All reports and maps listed here are available from the U.S. Geological Survey Books and Open File Reports Section. Reports covering detail areas and other special studies are listed in the previous pages.

The following map is a master index for the Department of Energy's National Uranium Resource Evaluation (NURE) reports. It lists all the publication numbers for each 3^{o} (or 2^{o}) sheet. Included are geochemical, geological, and airborne geophysical reports:

Index of open file reports - Alaska, by Bendix Field Engineering Corp., U.S. Department of Energy, Grand Junction Office Preliminary Map 36, 1983.

Note: The NURE Program did not fly the whole state of Alaska.

1^{o} BY 2^{o} or 3^{o} QUADRANGLE REPORTS

GJO- and GJBX- reports are the original contractor reports containing aeroradiometric and aeromagnetic profiles. A bibliography of these reports follows the Quadrangle list. Many of these reports consist of two or more volumes. Map (profile) scales are usually 1:500,000 unless otherwise noted. Item number refers to the location in the bibliography where the publication is cited.

PGJ/F- and GJQ- reports are uranium evaluation summaries. They are listed here only if airborne data are presented. They are also included in the bibliography. Map scales are usually 1:500,000 unless otherwise noted.

GJM- reports contain 4 sheets of aeromagnetics only. Sheets 1-3 show profiles and sheet 4 is a contoured aeromagnetic map at scale 1:250,000. They are not listed in the bibliography. They were published as follows: GJM-001 through 018 in 1981, GJM-019 through 292 in 1982, and the rest in 1983. A commonly used citation for GJM's is:

_____ Quadrangle, residual intensity magnetic anomaly profile and contour maps, by Bendix Field Engineering Corp., 4 sheets, scale 1:250,000, U.S. Department of Energy, Grand Junction Office Open-file Report GJM-___, 1982 (or 1983).

Note: The GJM reports were authored by Oak Ridge National Laboratory (GJM-001 to 063), Union Carbide Corp. (GJM-170 to 210), or Bendix Field Engineering Corp. (GJM-507-518).

Quadrangle	item	item
Anchorage	4. GJBX-108(78)	GJM-025
Atlin	7. GJBX-048(79)	
Baird Inlet	2. GJBX-005(77)	GJM-023
Barrow	18. GJBX-295(81)	GJM-507
Beaver	2. GJBX-005(77)	
Beechey Point	23. GJBX-300(81)	GJM-512
Bendelben	1. GJO-1653	
Bering Glacier	6. GJBX-127(78)	GJM-031

ALASKA AREA AIRBORNE (cont'd)

Quadrangle	item	item	
Bettles	2. GJBX-005(77)		
Big Delta	5. GJBX-113(78)		
Black	2. GJBX-005(77)		
Black River	2. GJBX-005(77)	37. PGJ/F-108(82)	GJM-041
Blying Sound	4. GJBX-108(78)		
Bradfield Canal	7. GJBX-048(79)		
Candle	1. GJO-1653		GJM-060
Cape Mendenhall	2. GJBX-005(77)		
Charley River	5. GJBX-113(78)	35. PGJ/F-106(82)	GJM-043
Circle	5. GJBX-113(78)	36. PGJ/F-107(82)	
Coleen	2. GJBX-005(77)	30. PGJ/F-040(82)	GJM-045
Cordova	6. GJBX-127(78)		
Craig	7. GJBX-048(79)		GJM-044
Dillingham	5. GJBX-113(78)		GJM-024
Dixon Entrance	7. GJBX-048(79)		
Eagle	5. GJBX-113(78)		
Fairbanks	5. GJBX-113(78)		
Fort Yukon	2. GJBX-005(77)		GJM-040
Gulkana	1. GJO-1653		GJM-063
Hagemeister Island	2. GJBX-005(77)		
Harrison Bay	22. GJBX-299(81)		GJM-511
Healy	5. GJBX-113(78)		GJM-062
Holy Cross	2. GJBX-005(77)		GJM-006
Hooper Bay	2. GJBX-005(77)		GJM-003
Hughes	1. GJO-1653		GJM-019
Icy Bay	6. GJBX-127(78)		
Iditarod	16. GJBX-080(80)		GJM-061
Ikpikpuk River	27. GJBX-304(81)		GJM-516
Juneau	7. GJBX-048(79)		
Kantishna River	17. GJBX-094(80)		GJM-035
Kateel River	2. GJBX-005(77)		GJM-005
Kenai	4. GJBX-108(78)		
Ketchikan	7. GJBX-048(79)		
Kotzebue	1. GJO-1653		GJM-008
Kuskokwim Bay	2. GJBX-005(77)		
Kwiguk	2. GJBX-005(77)		GJM-001
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Marshall	2. GJBX-005(77)		GJM-009
McCarthy	3. GJBX-091(78)		
McGrath	13. GJBX-077(80)		GJM-171
Meade River	20. GJBX-297(81)		GJM-509
Medfra	12. GJBX-076(80)		
Melozitna	2. GJBX-005(77)		GJM-004
Mt. Fairweather	7. GJBX-048(79)		
Mt. Hayes	5. GJBX-113(78)		
Mt. McKinley	5. GJBX-113(78)	31. PGJ/F-054(82)	GJM-002
Mt. St. Elias	6. GJBX-127(78)		
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ALASKA AREA AIRBORNE (cont'd)

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Norton Bay	8. GJBX-072(80)		GJM-042
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Nushagak Bay	2. GJBX-005(77)		GJM-033
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Petersburg	7. GJBX-048(79)		
Point Lay	24. GJBX-301(81)		GJM-513
Port Alexander	7. GJBX-048(79)		
Prince Rupert	7. GJBX-048(79)		
Ruby	11. GJBX-075(80)		GJM-210
Russian Mission	2. GJBX-005(77)		GJM-028
Sagavanirktok	29. GJBX-306(81)		GJM-518
Saint Michael	2. GJBX-005(77)		GJM-007
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Seward	4. GJBX-108(78)		
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Shungnak	1. GJO-1653		GJM-027
Sitka	7. GJBX-048(79)		
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Utukok River	25. GJBX-302(81)		GJM-514
Valdez	6. GJBX-127(78)		
Wainwright	19. GJBX-296(81)		GJM-508
Yakutak	6. GJBX-127(78)		GJM-026

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2. Aerial gamma-ray and magnetic survey of the Bethel and Yukon areas, Alaska, by Texas Instruments, Inc., 16 vols., U.S. Energy Research and Development Administration, Grand Junction Office Report GJBX-005(77), 1977.

3. NURE aerial gamma-ray and magnetic reconnaissance survey, Eastern Alaska area, by LK&B Resources, Inc., 4 vols., U.S. Department of Energy, Grand Junction Office Report GJBX-091(78), 1978.

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8. Airborne gamma-ray spectrometer and magnetometer survey, Norton Bay Quadrangle (Alaska), by Aero Service Corp., 2 vols., U.S. Department of Energy, Grand Junction Office Report GJBX-072(80), 1980.

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18. Airborne gamma-ray spectrometer and magnetometer survey, Barrow Quadrangle, Alaska, by Aero Service Corp., 2 vols., U.S. Department of Energy, Grand Junction Office Report GJBX-295(81), 1981.

19. Airborne gamma-ray spectrometer and magnetometer survey, Wainwright Quadrangle, Alaska, by Aero Service Corp., 2 vols., U.S. Department of Energy, Grand Junction Office Report GJBX-296(81), 1981.

20. Airborne gamma-ray spectrometer and magnetometer survey, Meade River Quadrangle, Alaska, by Aero Service Corp., 2 vols., U.S. Department of Energy, Grand Junction Office Report GJBX-297(81), 1981.

21. Airborne gamma-ray spectrometer and magnetometer survey, Teshekpuk Quadrangle, Alaska, by Aero Service Corp., 2 vols., U.S. Department of Energy, Grand Junction Office Report GJBX-298(81), 1981.

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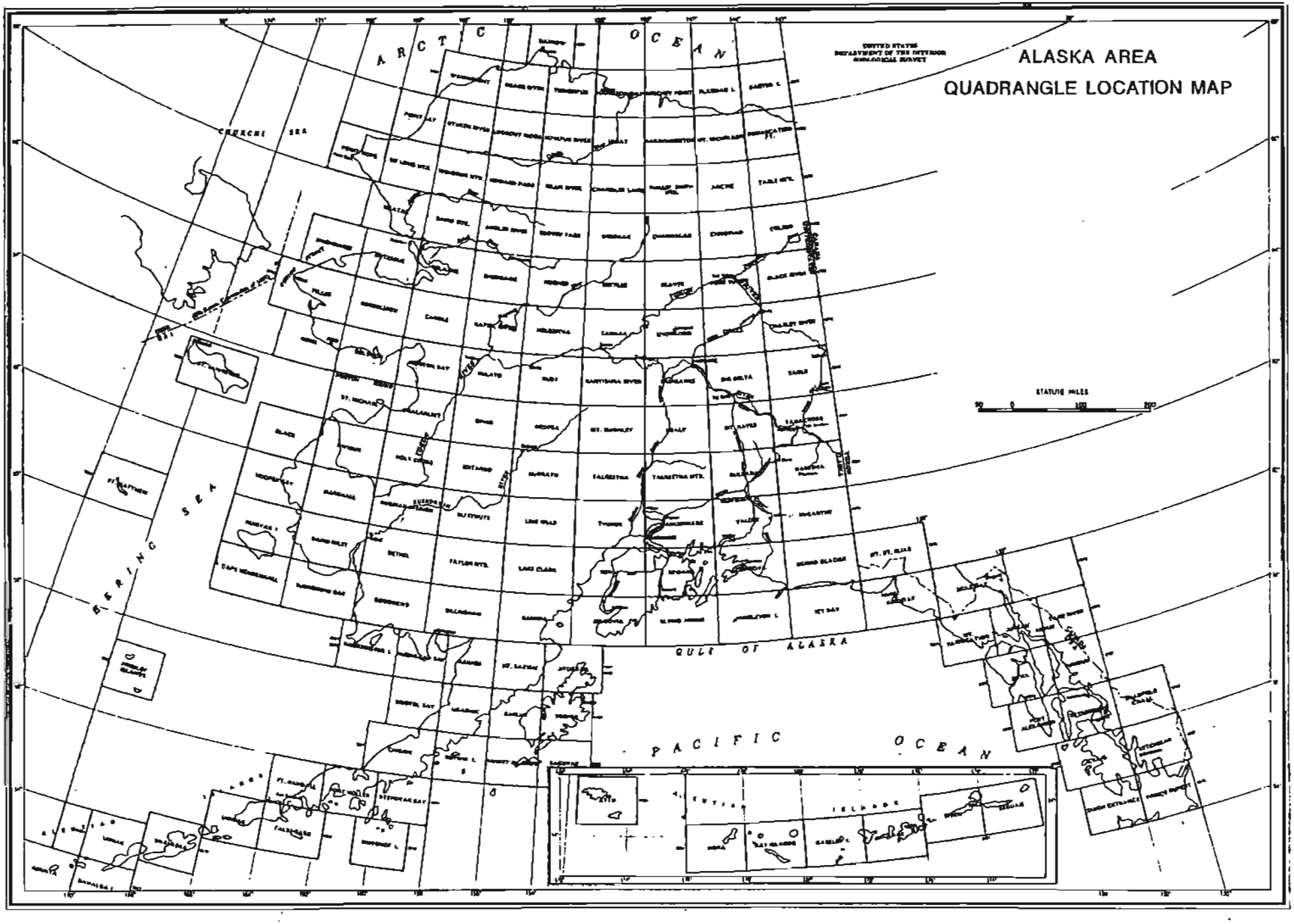
ALASKA AREA
QUADRANGLE LOCATION MAP
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ARCTIC OCEAN
CHUKCHI SEA
BERING SEA
GULF OF ALASKA
PACIFIC OCEAN
ALEUTIAN ISLANDS
STATUTE MILES