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UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

by

Patricia L. Hill

Open-File Report 86-525-E

Open-File  
(Geological Survey  
(U.S.))

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

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GENERAL INFORMATION FOR THE  
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 seven open-file reports: four for the conterminous United States (see index map below), one for Alaska and Hawaii, one for Puerto Rico and large areas of the United States (U.S. Regional), and one for the Department of Energy (DOE) National Uranium Resource Evaluation (NURE) Program reports.



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In addition to U.S. Geological Survey (U.S.G.S.) 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 available only from those sources. These sources are given in each index if their availability is known.

Unless otherwise noted, professional papers, bulletins, open-file reports, etc., are U.S.G.S. publications. Many of the publications listed are Geophysical Investigations Maps (GP) and other U.S.G.S. maps (MF, I, etc.). These may be purchased from: U.S. GEOLOGICAL SURVEY, MAP DISTRIBUTION, FEDERAL CENTER, BLDG. 41, 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.

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Professional papers and bulletins that are not out of print can be purchased over the counter from the U.S.G.S. 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 U.S.G.S. 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 U.S.G.S., State Surveys and universities. These locations are noted in each state index.

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

Most of the post-1972 U.S.G.S. airborne data 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 (303-497-6478, FTS 320-6478).

The digital data from the NURE program are available from: U.S. GEOLOGICAL SURVEY, EROS DATA CENTER, USER SERVICES, SIOUX FALLS, SD 57198 (605-594-6151, FTS 784-7151).

General information on U.S.G.S. 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).

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Aeromagnetic map of Afognak Island and vicinity, Alaska, scale 1:250,000, OF Rept. 80-57, 1980.....	82
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Maps showing structural interpretation of magnetic lineaments in the northern Gulf of Alaska, by W. C. Schwab, T. R. Bruns, and R. von Huene, scale 1:1,500,000, MF-1245, 1980.....	84
Tectonics of the Yakutat Block, an allochthonous terrane in the northern Gulf of Alaska, by T. R. Bruns, 112 p., OF Rept. 85-013, 1985.....	84
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Evolution of radioactivity anomalies in the Sischu Creek area, central Alaska, by W. A. Girdley and others, <u>in</u> Reports on investigations of uranium anomalies, C. S. Goodknight, ed., scale 1:125,000, U. S. Dept. Energy Rept. GJBX-222(82), p. 17-28, 1982.....	85



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Composite magnetic anomaly map of the United States: Part B--Alaska and Hawaii, compiled by R. H. Godson, 21 p., 2 sheets, scale 1:2,500,000, OF Rept. 82-970, 1982..... (Copies on file at 1, 2, 3, 5, 6, 7, 8, 11, 14, 15)	whole state
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
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Map showing aeromagnetic survey and interpretation of the Survey Pass quadrangle, Brooks Range, Alaska, by J. W. Cady and S. W. Hackett, scale 1:250,000, MF-1176-G, 1982.....	88
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- Magnetic data on the structure of the central Arctic region, by E. R. King, Isidore Ziets, 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.
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- 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 aeromagnetism, by P. Vogt and others, 26th Internat. Geol. Cong., Oceanologica Acta, 4, supplement, p. 25-40, 1981.
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- 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 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) (Copies on file at 1, 2, 3, 4, 5, 6, 7, 8, 11, 14, 15)
- 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. (Copies on file at 1, 2, 3, 8, 11, 14, 15)
- 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) (Copies on file at 1, 2, 3, 5, 6, 7, 8, 11, 14, 15)
- 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) (Copies on file at 1, 2, 3, 5, 6, 7, 8, 11, 14, 15)
- Interpretation of NURE aerial radiometric and hydrogeochemical and stream sediment reconnaissance data; final report, by D. F. Saunders, D. K. Jordt, and J. H. Galbraith, U.S. Dept. Energy Rept. GJBX-32(81), 1981. (Shows a small contoured radiometric map of south and central Alaska)

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An iron-rich lava flow from the Nenana Coal Field, central Alaska, by S. P. Reidell, in Alaska Div. Geol. and Geophys. Surveys Prof. Rept. 86, p. 5-8, 1984. (Shows aeromagnetic contours from southern Fairbanks and northern Healy quadrangles)

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., in Circular 945, p. 65-68, 1985.

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

1. U.S.G.S. Library, Rm. 4-A-100, 12201 Sunrise Valley Dr., Reston, VA 22092
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15. Alaska Div. Geol. Geophys. Surveys, 794 University Ave., Fairbanks, AK 99701
16. Alaska Div. Geol. Geophys. Surveys, State Office Bldg., Box 7438, Ketchikan, AK 99901
17. Federal Bldg., 101 - 12th Ave., Fairbanks, AK 99701
18. U.S.G.S., ONPRA, Suite 400, 2525 C St., Anchorage, AK 99503



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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 preceding pages.

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

Aeromagnetic map, SW Selawik quadrangle, AOF-1, 1973.....	A01
Aeromagnetic map, SE Teller quadrangle, AOF-2, 1973.....	A02
Aeromagnetic map, Bendeleben quadrangle, AOF-3, 1973.....	A03
Aeromagnetic map, west half of Candle quadrangle, AOF-4, 1973.....	A04
Aeromagnetic map, NE Nome quadrangle, AOF-5, 1973.....	A05
Aeromagnetic map, northern Solomon quadrangle, AOF-6, 1973.....	A06
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Aeromagnetic map, Healy quadrangle, (east part), AOF-9, 1973.....	A09
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Aeromagnetic map, Eagle quadrangle, AOF-18, 1973.....	A18
Aeromagnetic map, Talkeetna quadrangle, AOF-19, 1973.....	A19
Aeromagnetic map, Talkeetna Mts. quadrangle, AOF-20, 1973.....	A20
Aeromagnetic map, Anchorage quadrangle (north part), AOF-21, 1973.....	A21
Aeromagnetic map, Big Delta quadrangle, AOF-73, 1975.....	A22
Aeromagnetic map, western Ambler River quadrangle, AOF-76, 1975.....	A23
Aeromagnetic map, eastern Baird Mountains quadrangle, AOF-77, 1975.....	A24
Aeromagnetic map, NE Selawik quadrangle, AOF-78, 1975.....	A25
Aeromagnetic map of Talkeetna-Kashwitna River Area, by S. W. Hackett, scale 1:63,360, AOF-107H, 1978.....	A26



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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 portion of Shungnak quadrangle, AOF-177, 1982....	A29
Aeromagnetic map, northern half of Hughes quadrangle, AOF-178, 1982.....	A30
Aeromagnetic map, Beetles 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. 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

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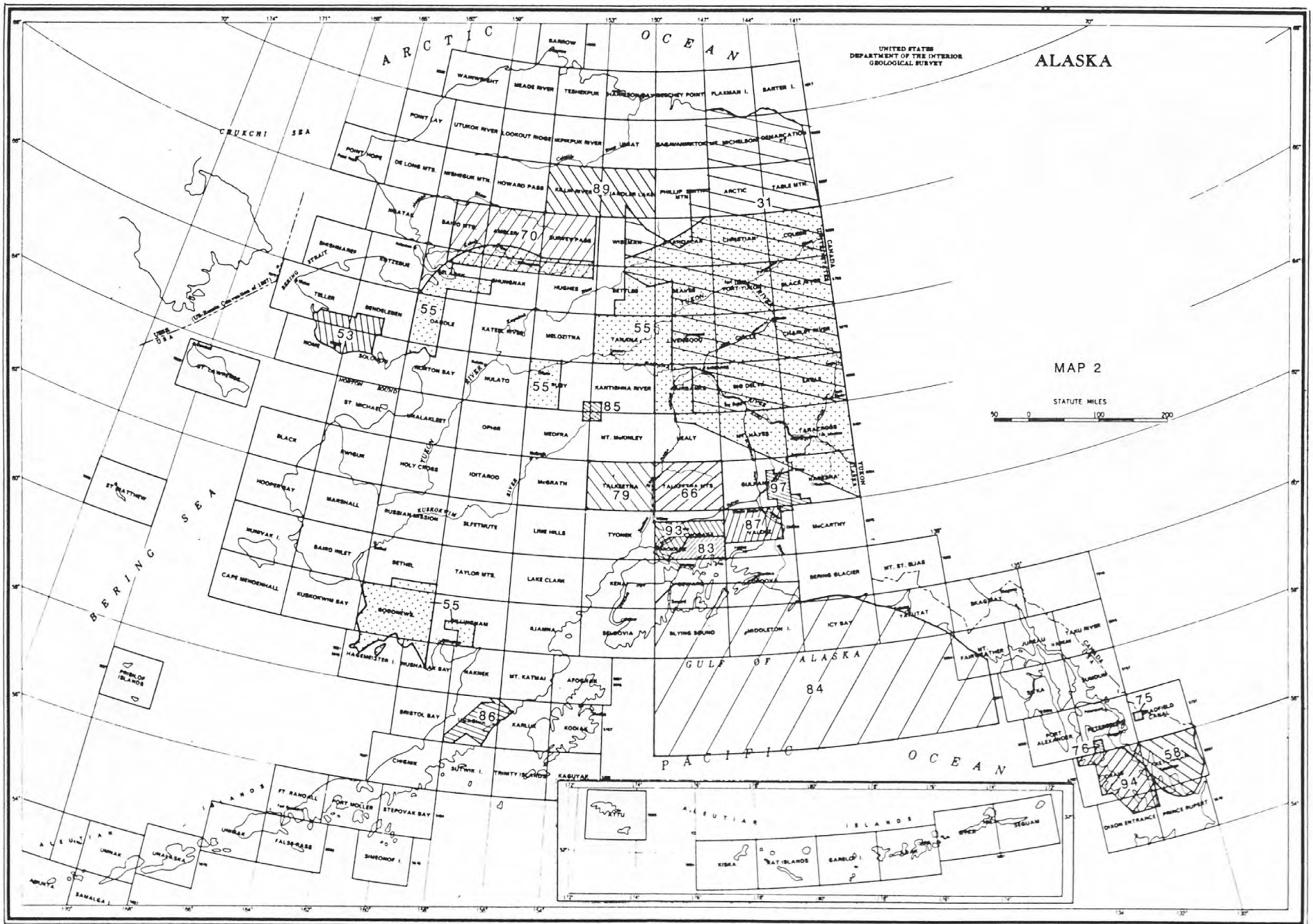


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ALASKA

MAP 2

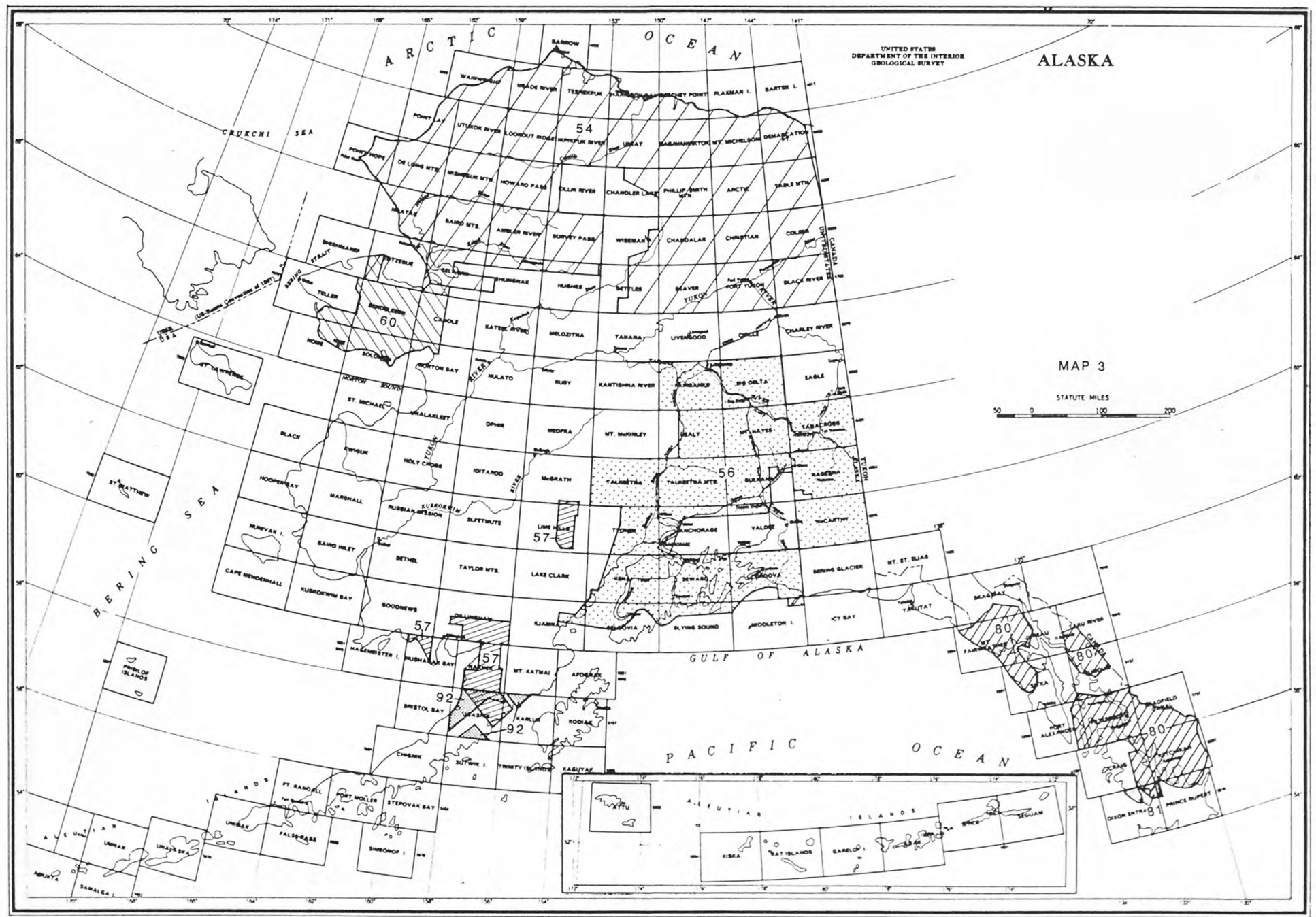
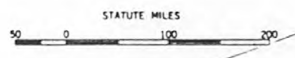
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# ALASKA

MAP 3

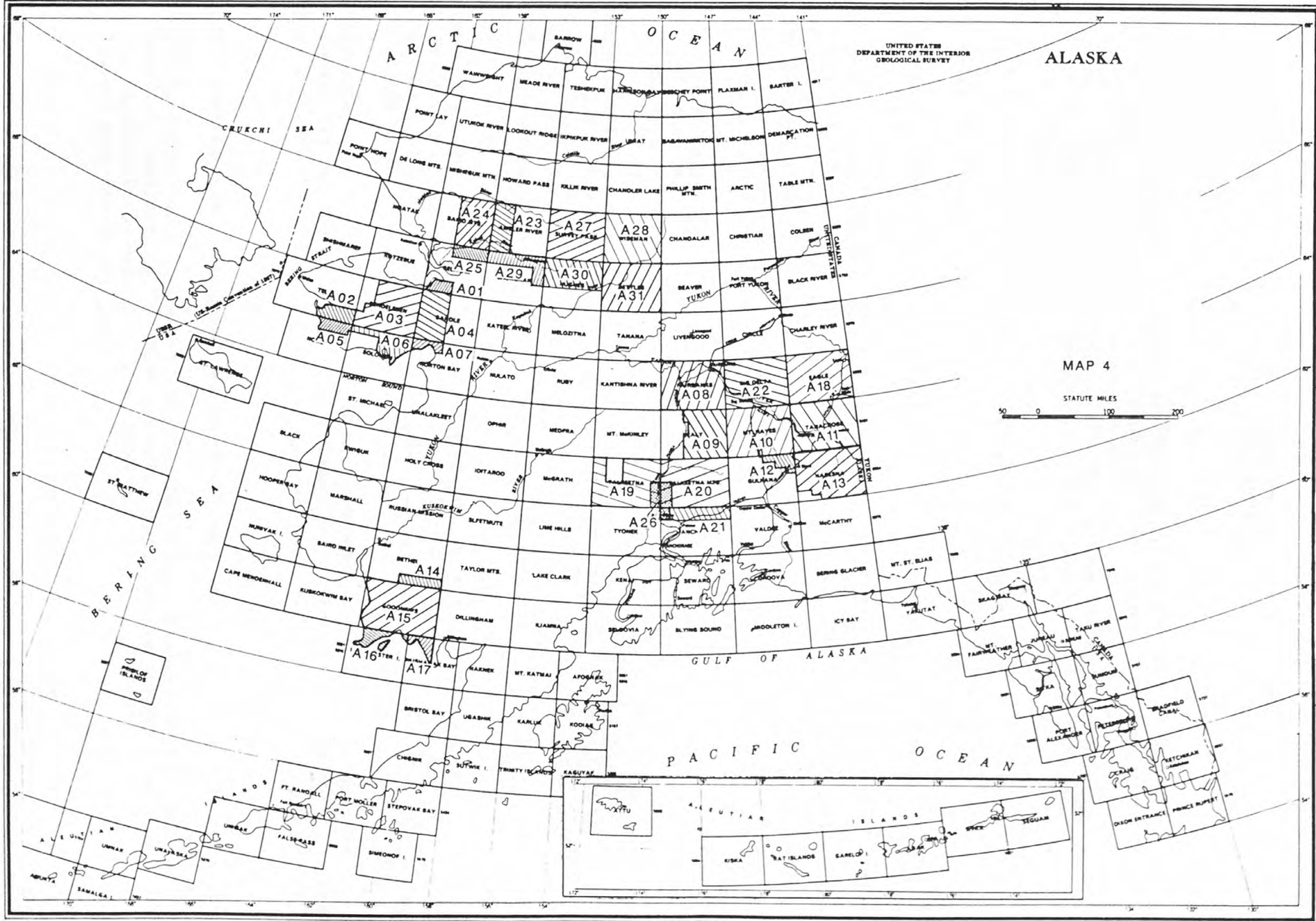
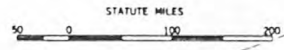




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BIOLOGICAL SURVEY

# ALASKA

MAP 4





HAWAII AIRBORNE INDEX

Map ref.

- Geologic implications of magnetic surveys over the Hawaiian Islands, by Alexander Malahoff and G. P. Woollard, Pacific Science, v. 20, no. 3, p. 265-311, 1966..... 10  
 (Fig. 1 is an aeromagnetic map of all the islands and surrounding ocean; other figures show more detailed contours of each of the islands and an ocean area north of Maui)
- Magnetic measurements over the Hawaiian Ridge and their volcanological implications, by A. Malahoff and G. P. Woollard, Bull. Volcanologique, v. 29, p. 735-759, 1966..... 10
- Magnetic studies over volcanoes, by Alexander Malahoff, in The Earth's crust and upper mantle, Am. Geophys. Union Mon. 13, p. 436-446, 1969..... 10
- Magnetic surveys over the Hawaiian Ridge, by Alexander Malahoff and G. P. Woollard, 64 p., Univ. Hawaii Inst. Geophysics Rept. HIG-65-11, rev. 1969. 10
- The geologic structure of the Puna submarine ridge, Hawaii, by Alexander Malahoff and Floyd McCoy, Jour. Geophys. Res., v. 72, no. 2, p. 541-548, 1967..... 11
- A hydrogeophysical survey from Kawaihae to Kailua-Kona, Hawaii, by W. M. Adams and others, 156 p., Univ. Hawaii Water Resources Res. Center Tech. Rept. 32, 1969..... 12 & 14
- Aeromagnetic, gravity, and electrical resistivity exploration between Pahala and Punaluu, Hawaii, by W. M. Adams, S. P. Mathur, and R. D. Huber, 60 p., Univ. Hawaii Water Resources Res. Center Tech. Rept. 28, 1970..... 13 & 14
- Aeromagnetic map of the island of Hawaii, by R. H. Godson and others, scale 1:250,000, GP-946, 1981..... 14
- Composite magnetic anomaly map of the United States: Part B--Alaska and Hawaii, compiled by R. H. Godson, 21 p., 2 sheets, scale 1:2,500,000, OF Rept. 82-970, 1982..... whole map  
 (Copies on file at 1, 2, 3, 4, 5, 6)
- 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-954-B, 1984..... whole map
- 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)

HAWAII (cont'd)

Other publications--cont'd:

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. Furumoto, Univ. Hawaii Inst. Geophysics Contributions, v. 1974, p. 643-660, 1975.

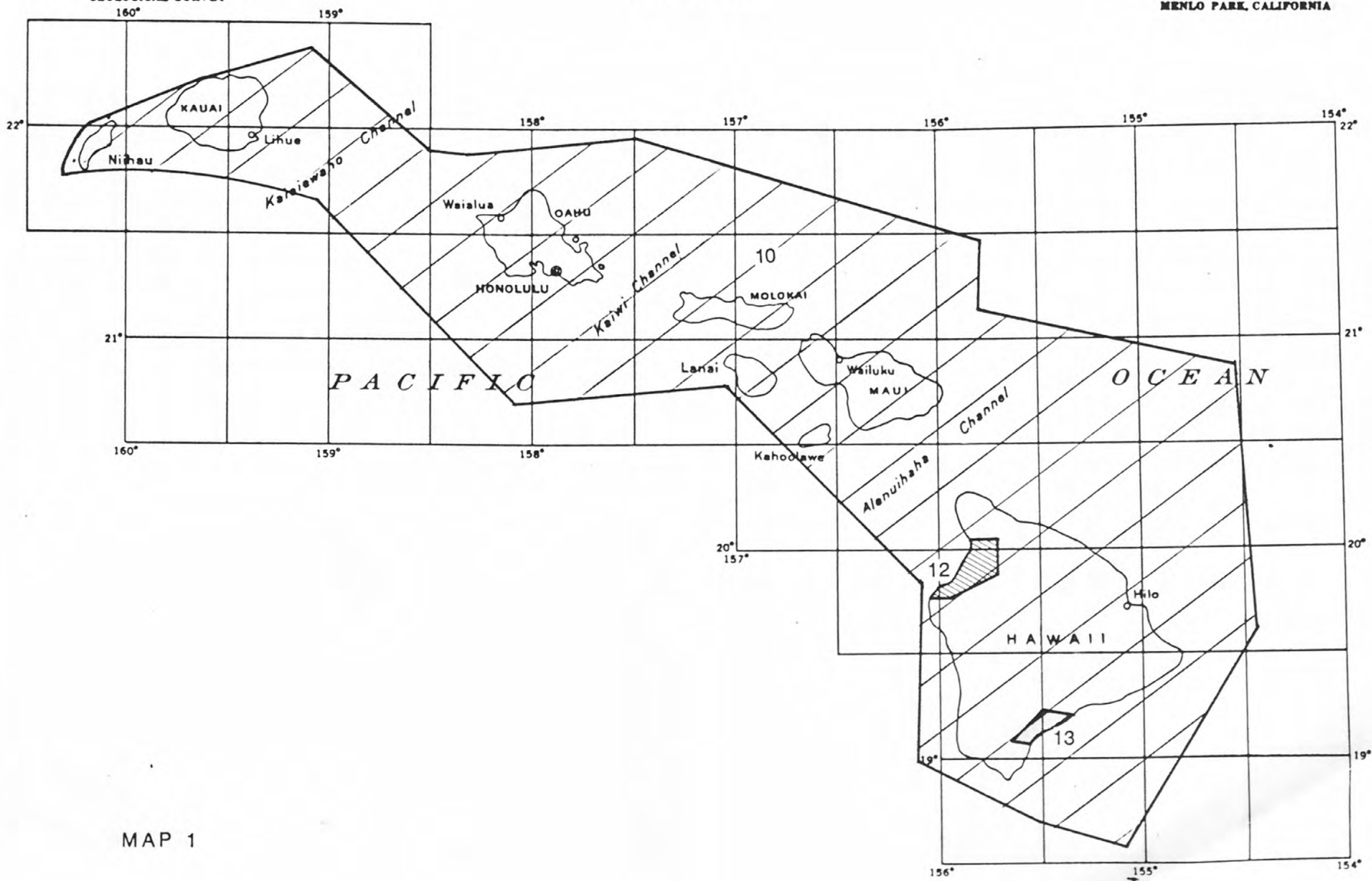
Investigation of geothermal potential in the Waianae Caldera area, western Oahu, Hawaii, by M. E. Cox and others, 76 p., Univ. Hawaii Inst. Geophysics Rept. HIG-79-8, 1979.

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# HAWAII

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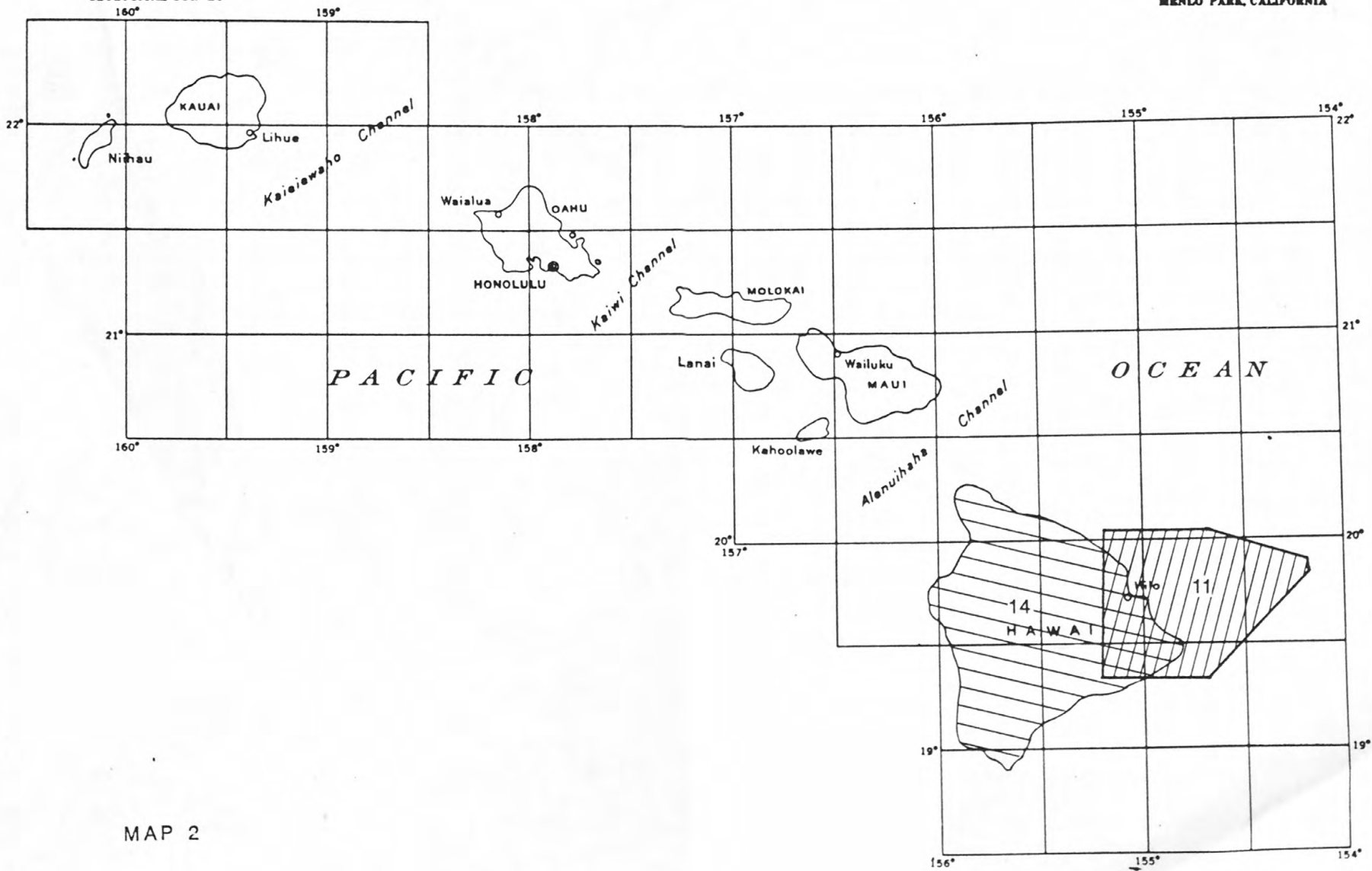


MAP 1

UNITED STATES  
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# HAWAII

TOPOGRAPHIC DIVISION  
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MENLO PARK, CALIFORNIA



MAP 2



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