UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

by

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Open-File Report 86-525-E

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

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The open-file report numbers in this series are:

Area 1	OF 86-525-A	Alaska and Hawaii	OF 86-525-E
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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!

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

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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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Gravity and aeromagnetic modelling of a large gabbroic body near the Border Ranges fault, southern Alaska, by L. E. Burns, 72 p., 3 sheets, scale 1:250,000, OF Rept. 82-460, 1982..... (Copies on file at 1, 2, 3, 5, 6, 7, 8, 11, 14, 15)	87
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
Aeromagnetic map of the Killik River and Chandler Lake 1° by 3° quadrangles, Alaska, scale 1:250,000, OF Rept. 83-607, 1983..... (Copies on file at 1, 2, 3, 5, 6, 7, 8, 11, 14, 15)	89
Aeromagnetic map of the western part of the Healy 1° by 3° quadrangle, Alaska, scale 1:250,000, OF Rept. 84-295, 1984..... (Copies on file at 1, 2, 3, 5, 6, 7, 8, 14, 15)	90
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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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- 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.
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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.
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- 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.
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(Copies may be available from Office of Naval Research, Alexandria, VA 22217)

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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) (Copies on file at 1, 2, 3, 4, 5, 6, 7, 8, 11, 14, 15)

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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.
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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
2. U.S.G.S. Library, 1526 Cole Blvd. at W. Colfax Ave., Golden CO
(mail address: Stop 914, Box 25046, Federal Center, Denver, CO 80225)
3. U.S.G.S. Library, 345 Middlefield Rd., Menlo Park, CA 94025
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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, 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. 108, Skyline Bldg., 508 - 2nd Ave., Anchorage, AK 99501
9. U.S.G.S., Alaskan Geology Branch, Tech. Data Unit, MS 48, 345 Middlefield Rd., Menlo Park, CA 94025
10. U.S.G.S., Rm. 441, Federal Bldg., Juneau, AK 99801
11. U.S.G.S., Rm. 207, O'Neill Bldg., Univ. of Alaska, Fairbanks, AK 99708
12. U.S. Bur. Mines Library, Juneau, AK 99801
13. Alaska Div. Geol. Geophys. Surveys, 400 Willoughby Center, Juneau, AK 99801
14. Alaska Div. Geol. Geophys. Surveys, 3601 C St., Anchorage, AK 99510
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)

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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
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Aeromagnetic map, SE Teller quadrangle, AOF-2, 1973.....	A02
Aeromagnetic map, Bendeleben quadrangle, AOF-3, 1973.....	A03
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Aeromagnetic map, NE Nome quadrangle, AOF-5, 1973.....	A05
Aeromagnetic map, northern Solomon quadrangle, AOF-6, 1973.....	A06
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Aeromagnetic map, Mt. Hayes quadrangle, AOF-10, 1973.....	A10
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Aeromagnetic map, Goodnews quadrangle, AOF-15, 1973.....	A15
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Aeromagnetic map, NW Nushagak Bay quadrangle, AOF-17, 1973.....	A17
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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
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Aeromagnetic map, Survey Pass quadrangle, AOF-175, 1982.....	A27
Aeromagnetic map, Wiseman quadrangle, AOF-176, 1982.....	A28
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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

Attn. Publications

HAWAII AIRBORNE INDEX

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- 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
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- 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.
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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.

1. U.S.G.S. Library, Rm. 4-A-100, 12201 Sunrise Valley Dr., Reston, VA 22092
2. U.S.G.S. Library, 1526 Cole Blvd. at W. Colfax Ave., Golden, CO
(mail address: Stop 914, Box 25046, Federal Center, Denver, CO 80225)
3. U.S.G.S. Library, 345 Middlefield Rd., Menlo Park, CA 94025
4. P.I.O., Rm. 7638, Federal Bldg., 300 N. Los Angeles St., Los Angeles, CA 90012
5. P.I.O., Rm. 504, Custom House, 555 Battery St., San Francisco, CA 94111
6. U.S.G.S., Hawaii Volcano Observatory, Hawaii National Park, HI 96718

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HAWAII

TOPOGRAPHIC DIVISION
PACIFIC AREA
MENLO PARK, CALIFORNIA

MAP 1

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MAP 2