

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Bibliographies and location maps of publications on  
aeromagnetic and aeroradiometric surveys for the states east of  
the Mississippi River and north of the Ohio and Potomac Rivers

by

Patricia L. Hill

Open-File Report 91-370-C

1991

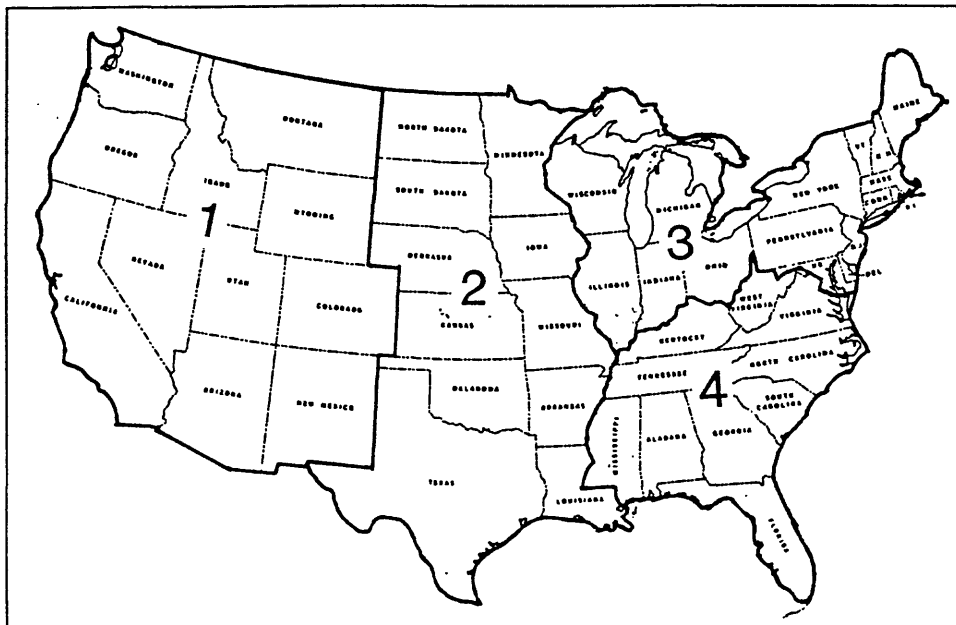
This report is preliminary and has not been reviewed for conformity with  
U.S. Geological Survey editorial standards.

## TABLE OF CONTENTS

|   | Page |
|---|------|
| General Information.....                        | 2    |
| Illinois.....                                   | 4    |
| Indiana.....                                    | 8    |
| Maine.....                                      | 15   |
| Maryland - Delaware.....                        | 22   |
| Massachusetts - Connecticut - Rhode Island..... | 30   |
| Michigan.....                                   | 47   |
| New Jersey.....                                 | 56   |
| New York.....                                   | 62   |
| Ohio.....                                       | 70   |
| Pennsylvania.....                               | 73   |
| Vermont - New Hampshire.....                    | 83   |
| Wisconsin.....                                  | 89   |
| Northeastern Area DOE-NURE.....                 | 96   |

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 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 |
| Area 2 | OF 91-370-B | Hawaii and Alaska    | OF 91-370-E |
| Area 3 | OF 91-370-C | Puerto Rico and U.S. | OF 91-370-F |

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 available only from those sources. 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).

## GENERAL INFORMATION (cont'd)

### 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).

# ILLINOIS AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 5 except where noted.)

|   | Map ref. |
|---|----------|
| Aeromagnetic map of Knox County, Indiana, and part of Lawrence County, Illinois, by J. R. Henderson and J. L. Meuschke, scale approx. 1:62,500, GP-108, 1951.....   | 10       |
| Aeromagnetic map of Sullivan County, Indiana, and part of Crawford County, Illinois, by J. R. Henderson and J. L. Meuschke, scale approx. 1:62,500, GP-111, 1951.....   | 11       |
| Aeromagnetic study of the Hardin County area, Illinois, by L. D. McGinnis and J. C. Bradbury, 12 p., Illinois State Geol. Survey Circular 363, 1964. (Copies available from 4)  | 12       |
| Results of regional aeromagnetic surveys of eastern upper Michigan, central lower Michigan, and southeastern Illinois, by R. W. Patenaude, 51 p., Univ. Wisconsin Geophys. and Polar Research Center Rept. 64-2, 1964..... (Fig. 23 is an aeromagnetic map of southeastern Illinois)              | 13       |
| Reconnaissance hydrocarbon prospect generation with integrated potential field and remotely sensed data, southern Illinois Basin, by D. L. Vixø and B. J. Gregory, Proc., Internat. Sym. Remote Sensing Environ. no. 3, p. 229-247, 1984.....   | 13       |
| Aeromagnetic and tectonic analysis of the Upper Mississippi Valley zinc-lead district, by A. V. Heyl and E. R. King, 16 p., Bulletin 1242-A, 1966. (Pl. 1 is an aeromagnetic map, scale 1:62,500)   | 14       |
| Aeromagnetic map of northeastern Illinois and its geologic interpretation, by M. E. Beck, Jr., scale 1:250,000, GP-523, 1965.....   | 15       |
| Aeroradioactivity map of the Chicago area, Illinois and Indiana, by G. M. Flint, Jr., and J. A. Pitkin, scale 1:250,000, GP-681, 1970.....  | 15       |
| Aeroradioactivity survey and related surface geology of the Chicago area, Illinois and Indiana (ARMS-I), by G. M. Flint, Jr., and J. A. Pitkin, 26 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.13, 1970.. (Copies available from 5)  | 15       |
| Regional gravity and magnetic study of southern Lake Michigan - Southern Lake Michigan geophysical study, by N. W. O'Hara, R. J. Wold, and W. J. Hinze, Proc., 16th Conf. on Great Lakes Research, p. 431-440, 1973..... (Land coverage is slightly less than shown; extends into Lake Michigan.) | 15       |
| Residual total magnetic intensity map of southwestern Illinois, by P. C. Heigold, 28 p., scale 1:250,000, Illinois State Geol. Survey Circular 495, 1976..... (Copies available from 4)   | 16       |

# ILLINOIS AIRBORNE (cont'd)

Map ref.

An integrated geophysical and geological study of the tectonic framework of the 38th Parallel Lineament in the vicinity of its intersection with the extension of the New Madrid Fault Zone, by L. W. Braile and others, U.S. Nuclear Reg. Comm. Rept. NUREG/CR-1014, p. 1-57, 1979..... 13 & 16 (Figs. 8, 14-23 are aeromagnetic maps of southern Illinois)

Aeromagnetic map of northwestern Illinois, scale 1:250,000, OF Rept. 82-190, 1982..... 17

Magnetic and gravity features of western Kentucky: Their geologic significance, by T. G. Hildenbrand and G. R. Keller, 13 p., 4 sheets, scale 1:500,000, OF Rept. 83-164, 1983..... 18

Regional aerial gamma-ray maps for Illinois and parts of Wisconsin, Iowa, Michigan, Indiana, Missouri, and Kentucky, by J. S. Duval and W. J. Jones, Missouri Dept. Nat. Resources, Spec. Pub. 4, p. 157-165, 1988..... whole state

Aeromagnetic anomaly map of the Paducah 1° x 2° Quadrangle, Missouri, Illinois, and Kentucky, by R. P. Kucks, scale 1:250,000, MF-2131, 1990.... 19 (A gridded digital data tape is available from 6)

Other publications of interest; not shown on index map:

Basement geology of the Lake Michigan area from aeromagnetic studies, by N. W. O'Hara and W. J. Hinze, Geol. Soc. Am. Bull., v. 83, no. 6, p. 177-1786, 1972. (Shows aeromagnetic contours over Lake Michigan)

Great Lakes region gravity and magnetic map sequence: Lake Michigan area, by N. W. O'Hara, 12 p., 2 sheets, scale 1:750,000, Geol. Soc. Am. Map and Chart Series MC-38, 1981. (Contours extend over adjacent land areas. See U.S. Index for location.)

Preliminary thorium daughter contour map and profiles of the Hicks Dome area, Hardin County, Illinois, by J. A. Pitkin, 9 p., map and profiles are at scale 1:12,000, OF Rept. 74-157, 1974.

Oil and gas exploration; a good place to start, by Ron Herzfeld, World Oil, v. 200, no. 5, p. 79-80, 1985. (Covers part of southern Illinois)

U.S.G.S. open-file reports for Illinois are available for viewing at 1, 2, and 3. Additional locations for viewing reports which overlap into adjacent states are listed in that state's index.

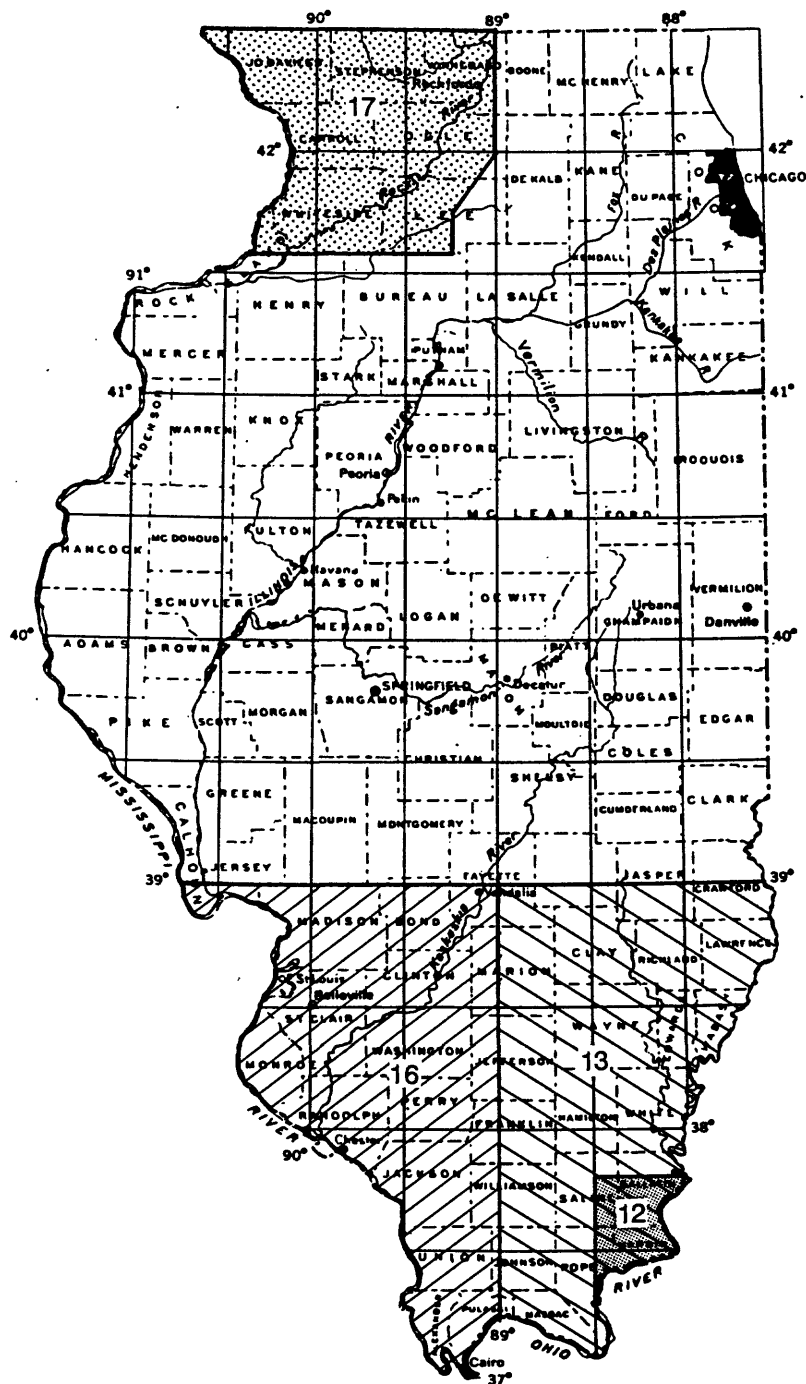
1. U.S.G.S. Library, Rm. 4-A-100, 12201 Sunrise Valley Dr., Reston, VA 22092
2. U.S.G.S. Library, Rm. C2002, Bldg. 20, Federal Center, Box 25046, Stop 914, Denver, CO 80225
3. U.S.G.S. Library, 345 Middlefield Rd., Menlo Park, CA 94025
4. Illinois State Geol. Survey, 121 Nat. Resources Bldg., Urbana, IL 61801
5. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161
6. N.G.D.C., NOAA, Code E/GC12, 325 Broadway, Boulder, CO 80303

# ILLINOIS



6

# ILLINOIS



MAP 2

# INDIANA AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 12 except where noted.)

Map ref.

Aeromagnetic maps of the following counties are early unnumbered Geophysical Investigations Maps (GP) and are by W. J. Dempsey, J. R. Henderson, and R. T. Duffner, unless otherwise noted; scale approx. 1:62,500:

|   |    |
|---|----|
| Benton, 1949.....                                       | 10 |
| Cass, 1950.....   | 11 |
| Elkhart, 1950.....                                      | 12 |
| Fulton, 1949.....                                       | 13 |
| Jasper, 1949.....                                       | 14 |
| Lake, 1949.....   | 15 |
| La Porte, 1949.....                                     | 16 |
| Marshall, 1950.....                                     | 17 |
| Newton, 1949.....                                       | 18 |
| Posey, by J. R. Henderson and J. L. Meuschke, 1949..... | 19 |
| Pulaski, 1949.....                                      | 20 |
| St. Joseph, 1950.....                                   | 21 |
| Starke, 1949.....                                       | 22 |
| White, 1949.....  | 23 |

Aeromagnetic maps of the following counties are by J. R. Henderson and J. L. Meuschke; scale approx. 1:62,500:

|                           |    |
|---------------------------|----|
| Daviess, GP-7, 1950.....  | 24 |
| Dubois, GP-8, 1950.....   | 25 |
| Martin, GP-9, 1950.....   | 26 |
| Pike, GP-10, 1950.....    | 27 |
| Spencer, GP-11, 1950..... | 28 |
| Warrick, GP-12, 1950..... | 29 |
| Adams, GP-20, 1950.....   | 30 |
| Allen, GP-21, 1950.....   | 31 |

Aeromagnetic maps of the following counties are by W. J. Dempsey, J. R. Henderson, and R. T. Duffner, scale approx. 1:62,500:

|                              |    |
|------------------------------|----|
| Carroll, GP-22, 1951.....    | 32 |
| DeKalb, GP-23, 1950.....     | 33 |
| Howard, GP-24, 1950.....     | 34 |
| Huntington, GP-25, 1950..... | 35 |
| Kosciusko, GP-26, 1950.....  | 36 |

# INDIANA AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--(cont'd):

|                            |    |
|----------------------------|----|
| LaGrange, GP-27, 1950..... | 37 |
| Miami, GP-28, 1950.....    | 38 |
| Noble, GP-29, 1950.....    | 39 |
| Porter, GP-30, 1950.....   | 40 |
| Steuben, GP-31, 1950.....  | 41 |
| Wabash, GP-32, 1950.....   | 42 |
| Wells, GP-33, 1950.....    | 43 |
| Whitley, GP-34, 1950.....  | 44 |

Aeromagnetic maps of the following counties are by J. R. Henderson and J. L. Meuschke unless otherwise noted; scale approx. 1:62,500:

|  |    |
|--|----|
| Boone, GP-35, 1950.....                                  | 45 |
| Clinton, GP-36, 1950.....                                | 46 |
| Gibson, GP-37, 1950.....                                 | 47 |
| Hendricks, GP-38, 1950.....                              | 48 |
| Montgomery, GP-39, 1950.....                             | 49 |
| Perry, GP-40, 1950.....                                  | 50 |
| Putnam, GP-41, 1950.....                                 | 51 |
| Tippecanoe, GP-42, 1950.....                             | 52 |
| Vanderburgh, GP-43, 1950.....                            | 53 |
| Vermillion, GP-44, 1950.....                             | 54 |
| Warren, GP-45, 1950.....                                 | 55 |
| Blackford, by W. J. Dempsey and others, GP-52, 1951..... | 56 |
| Brown, GP-53, 1951.....                                  | 57 |
| Clark, GP-54, 1951.....                                  | 58 |
| Crawford, GP-55, 1951.....                               | 59 |
| Decatur, GP-56, 1951.....                                | 60 |
| Delaware, GP-57, 1951.....                               | 61 |
| Floyd, GP-58, 1951.....                                  | 62 |
| Grant, by W. J. Dempsey and others, GP-59, 1951.....     | 63 |
| Hamilton, GP-60, 1951.....                               | 64 |
| Hancock, GP-61, 1951.....                                | 65 |
| Harrison, GP-62, 1951.....                               | 66 |
| Henry, GP-63, 1951.....                                  | 67 |
| Jefferson, GP-64, 1951.....                              | 68 |

# INDIANA AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--(cont'd):

|  |     |
|--|-----|
| Jennings, GP-65, 1951.....                                       | 69  |
| Lawrence, GP-66, 1951.....                                       | 70  |
| Madison, GP-67, 1951.....  | 71  |
| Morgan, GP-68, 1951.....   | 72  |
| Orange, GP-69, 1951.....   | 73  |
| Owen, GP-70, 1951.....   | 74  |
| Parke, GP-71, 1951.....  | 75  |
| Ripley, GP-72, 1951.....   | 76  |
| Scott, GP-73, 1951.....  | 77  |
| Shelby, GP-74, 1951.....   | 78  |
| Tipton, GP-75, 1951.....   | 79  |
| Washington, GP-76, 1951.....                                     | 80  |
| Bartholomew, GP-82, 1951.....                                    | 81  |
| Dearborn, GP-83, 1951.....                                       | 82  |
| Fayette, GP-84, 1951.....  | 83  |
| Jackson, GP-85, 1951.....  | 84  |
| Jay, GP-86, 1951.....  | 85  |
| Monroe, GP-87, 1951.....   | 86  |
| Ohio, GP-88, 1951.....   | 87  |
| Rush, GP-89, 1951.....   | 88  |
| Switzerland, GP-90, 1951.....                                    | 89  |
| Clay, GP-103, 1951.....  | 90  |
| Fountain, GP-104, 1951.....                                      | 91  |
| Franklin, GP-105, 1951.....                                      | 92  |
| Greene, GP-106, 1951.....  | 93  |
| Johnson, GP-107, 1951.....                                       | 94  |
| Knox, Ind., and part of Lawrence County, Ill., GP-108, 1951..... | 95  |
| Marion, GP-109, 1951.....  | 96  |
| Randolph, GP-110, 1951.....                                      | 97  |
| Sullivan, GP-111, 1951.....                                      | 98  |
| Union, GP-112, 1951.....   | 99  |
| Vigo, GP-113, 1951.....  | 100 |
| Wayne, GP-114, 1951.....   | 101 |

# INDIANA AIRBORNE (cont'd)

|   | Map ref.    |
|---|-------------|
| Interpretation of an aeromagnetic survey of Indiana, by J. R. Henderson and Isidore Zietz, 17 p., scale 1:500,000, Prof. Paper 316-B, 1958.....   | whole state |
| Magnetic evidence for the attitude of a buried magnetic mass, by G. E. Andreasen and Isidore Zietz, <u>in</u> Prof. Paper 400-B, p. 114-116, 1960..... (Fig. 53.1 is an aeromagnetic map)   | 102         |
| Limiting parameters in the magnetic interpretation of a geologic structure, by G. E. Andreasen and Isidore Zietz, Geophysics, v. 27, no. 6, pt. 1, p. 807-814, 1962.....  | 102         |
| Aeromagnetic map of the Columbus-Dayton area, Ohio and Indiana, by P. W. Philbin, C. L. Long, and F. C. Moore, scale 1:250,000, GP-491, 1965.....   | 103         |
| Natural gamma aeroradioactivity map of central Ohio and east-central Indiana, by R. G. Bates, scale 1:250,000, GP-524, 1965.....  | 103         |
| Aeroradioactivity survey and areal geology of parts of Ohio and Indiana (ARMS-I), by R. G. Bates, 20 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.23, 1966..... (Copies available from 4)   | 103         |
| Digitized aeromagnetic map of the Columbus-Dayton area, Ohio and Indiana, by J. B. Harlan, R. W. Simpson, and M. F. Kane, scale 1:250,000, OF Rept. 79-928, 1979.....   | 103         |
| Aeroradioactivity map of the Chicago area, Illinois and Indiana, by G. M. Flint, Jr., and J. A. Pitkin, scale 1:250,000, GP-681, 1970.....  | 104         |
| Aeroradioactivity survey and related surface geology of the Chicago area, Illinois and Indiana (ARMS-I), by G. M. Flint, Jr., and J. A. Pitkin, 26 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.13, 1970.. (Copies available from 4)        | 104         |
| Regional gravity and magnetic study of southern Lake Michigan - Southern Lake Michigan geophysical study, by N. W. O'Hara, R. J. Wold, and W. J. Hinze, Proc., 16th Conf. on Great Lakes Research, p. 431-440, 1973.....                                    | 105         |
| Geophysical-geological studies of possible extensions of the New Madrid Fault Zone, by W. J. Hinze and others, 42 p., U.S. Nuclear Reg. Comm. Rept. NUREG/CR-3174, v. 2, 1985.....  | 106         |
| The utility of geopotential field data in seismotectonic studies in the eastern United States, by W. J. Hinze and T. G. Hildenbrand, Seis. Res. Let., v. 59, no. 4, p. 289-297, 1988.....   | 106         |
| Regional aerial gamma-ray maps for Illinois and parts of Wisconsin, Iowa, Michigan, Indiana, Missouri, and Kentucky, by J. S. Duval and W. J. Jones, Missouri Dept. Nat Resources, Spec. Pub. 4, p. 157-165, 1988..... (Covers all of Indiana west of 86°.) | not shown   |

## INDIANA AIRBORNE (cont'd)

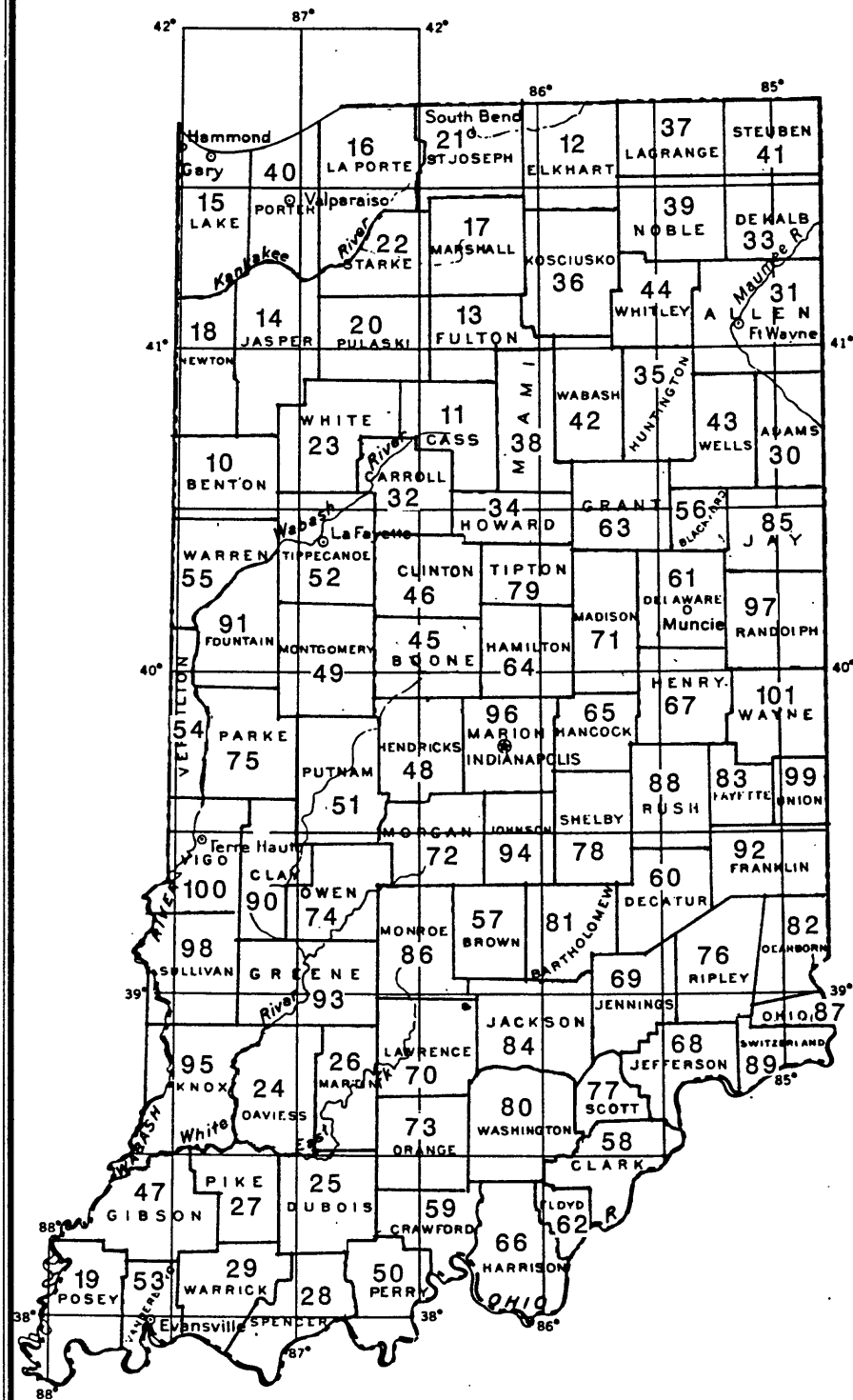
Other publications of interest, not shown on index maps:

- A geophysical study of a basement anomaly in Indiana, by A. J. Rudman and R. F. Blakely, *Geophysics*, v. 30, no. 5, p. 740-761, 1965.  
(covers the whole state and ref. 20)
- Geophysics in Indiana, by E. J. Doheny, in A survey of Indiana geology, Indiana Univ., Dept. Geology, p. 9-16, 1966. (Covers whole state)
- Precambrian geophysical provinces in Indiana, by A. J. Rudman and others, Indiana Academy of Science, *Proc.*, v. 81, p. 223-228, 1972. (Covers whole state)
- Basement geology of the Lake Michigan area from aeromagnetic studies, by N. W. O'Hara and W. J. Hinze, *Geol. Soc. Am. Bull.*, v. 83, no. 6, p. 1771-1786, 1972.
- Great Lakes region gravity and magnetic map sequence: Lake Michigan area, by N. W. O'Hara, 12 p., 2 sheets, scale 1:750,000, *Geol. Soc. Am. Map and Chart Series MC-38*, 1981.  
(Contours extend over adjacent land areas. See U.S. Index for location.)

U.S.G.S. open-file reports for Indiana are available for viewing at 1, 2, and 3. Additional locations for viewing reports which overlap into adjacent states are listed in that state's index.

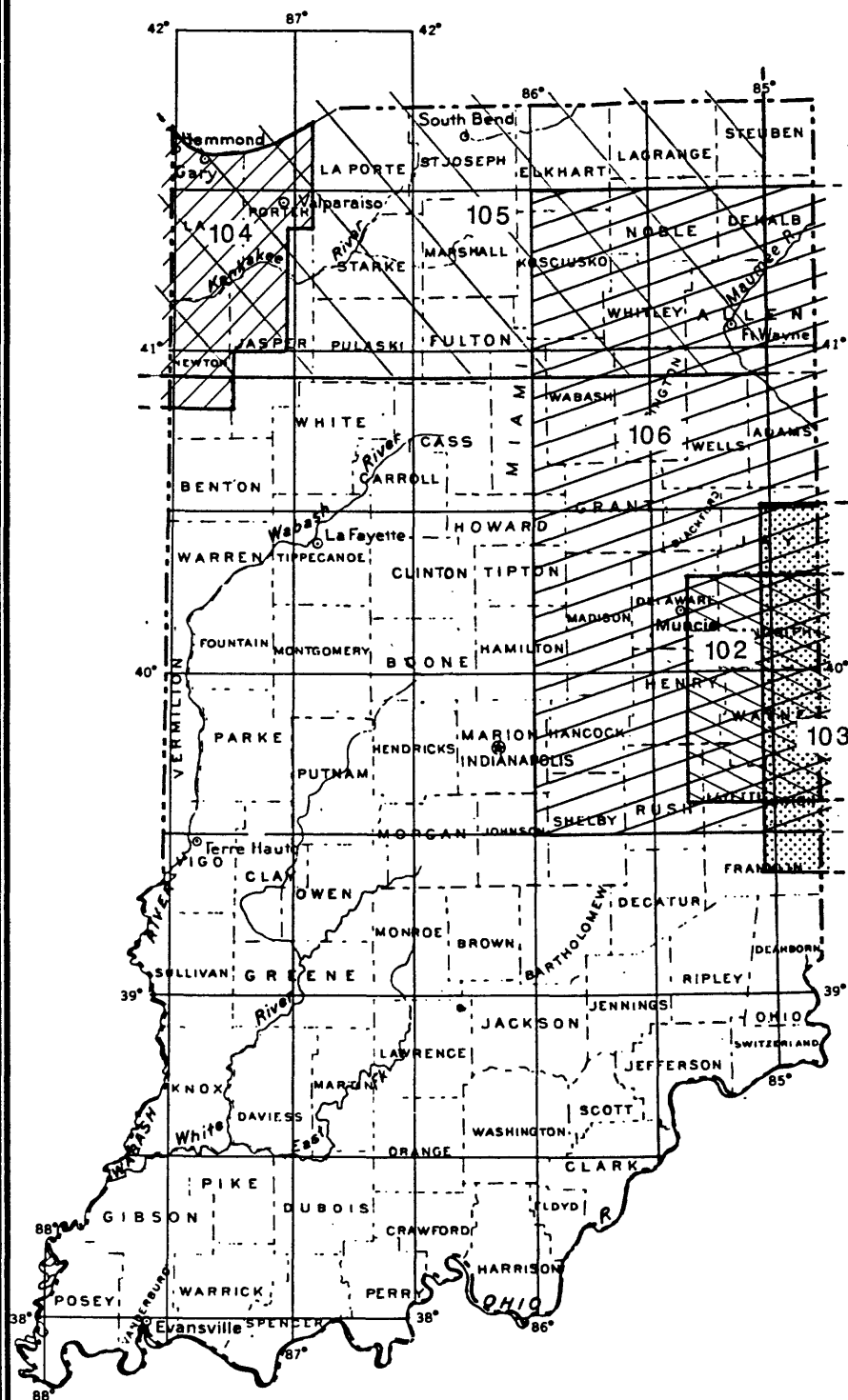
1. U.S.G.S. Library, Rm. 4-A-100, 12201 Sunrise Valley Dr., Reston, VA 22092
2. U.S.G.S. Library, Rm. C2002, Bldg. 20, Federal Center, Box 25046, Stop 914, Denver, CO 80225
3. U.S.G.S. Library, 345 Middlefield Rd., Menlo Park, CA 94025
4. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161

# INDIANA



# INDIANA

TOPOGRAPHIC DIVISION  
ATLANTIC REGION  
ARLINGTON, VIRGINIA



MAP 2



# MAINE AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 18 except where noted.)

|   | Map ref. |
|---|----------|
| Airborne magnetometer and geological reconnaissance survey in northwestern Maine, by P. M. Hurley and J. B. Thompson, Jr., Geol. Soc. Am. Bull., v. 61, no. 8, p. 835-841, 1950.....                          | 10       |
| Aeromagnetic survey and geologic reconnaissance of part of Piscataquis County, Maine, by J. R. Balsley and E. P. Kaiser, scale 1:62,500, GP-116, 1954.....  | 11       |
| Preliminary total intensity aeromagnetic maps of parts of Franklin and Somerset counties, Maine, 3 sheets, scale 31,680, OF Rept. 54-096, 1954...   | 12       |
| Aeromagnetic maps of the following quadrangles or areas are at scale 1:62,500:  |          |
| Berwick, by R. W. Bromery and others, GP-137, 1956.....   | 13       |
| Umbagog Lake and vicinity, by R. W. Bromery and others, GP-138, 1957.....   | 14       |
| Berlin and vicinity, by R. W. Bromery and others, GP-139, 1957.....   | 15       |
| Jo-Mary Mountain area, by J. R. Balsley and others, GP-154, 1957.....   | 16       |
| Harrington Lake, by J. R. Balsley and others, GP-155, 1957.....   | 17       |
| Aeromagnetic and geologic reconnaissance survey of portions of Hancock and Penobscot counties, Maine, by L. A. Wing, 10 sheets, scale 1:62,500, Maine Geol. Survey, GP & G Survey no. 1, (1958).....          | 18       |
| Aeromagnetic and geologic reconnaissance survey of Atkinson and vicinity, Piscataquis County, Maine, scale 1:62,500, Maine Geol. Survey, GP & G Survey no. 2, 1958.....                                       | 19       |
| Aeromagnetic and geologic reconnaissance survey of portions of Penobscot, Hancock and Washington counties, Maine, by L. A. Wing, 6 sheets, scale 1:62,500, Maine Geol. Survey, GP & G Survey no. 3, 1958..... | 20       |
| An aeromagnetic and geologic reconnaissance survey of portions of Penobscot, Piscataquis and Aroostook counties, Maine, by L. A. Wing, 7 p., Maine Geol. Survey, GP & G Survey no. 4, 1959.....               | 21       |
| An aeromagnetic and geologic reconnaissance survey of the Sidney-Augusta and Gardiner areas, Kennebec County, Maine, by L. A. Wing, 18 p., Maine Geol. Survey, GP & G Survey no. 5, 1959.....                 | 22       |
| Aeromagnetic maps of the following quadrangles or areas are at scale 1:62,500:  |          |
| Grand Lake Seboeis, by R. W. Bromery, GP-288, 1962.....   | 23       |
| Oxbow, by J. R. Balsley, GP-289, 1962.....  | 24       |
| Howe Brook, by J. R. Balsley, GP-290, 1962.....   | 25       |
| Aeromagnetic map of the Bridgewater Quadrangle, Aroostook County, Maine, by J. R. Henderson, scale 1:62,500, GP-291, 1962.....  | 26       |

MAINE AIRBORNE (cont'd)

Map ref.

|  |    |
|--|----|
| Geology of the Bridgewater Quadrangle, by Louis Pavlides, <u>with a section on</u><br>Geophysical surveys by A. Griscom and M. F. Kane, 72 p., aeromagnetic<br>map scale 1:62,500, Bulletin 1206, 1965(1966).....                    | 26 |
| Aeromagnetic map of part of the Shin Pond Quadrangle, Penobscot County,<br>Maine, by R. W. Bromery, scale 1:62,500, GP-292, 1962.....  | 27 |
| Aeromagnetic map of the Island Falls Quadrangle, Aroostook and Penobscot<br>counties, Maine, by W. J. Dempsey, scale 1:62,500, GP-293, 1962.....   | 28 |
| Geological-geophysical investigations of bedrock in the Island Falls Quad-<br>rangle, Aroostook and Penobscot counties, Maine, by E. B. Ekren and F. C.<br>Frischknecht, 36 p., 2 sheets, scale 1:62,500, Prof. Paper 527, 1967..... | 28 |
| Aeromagnetic maps of the following quadrangles are at scale 1:62,500:  |    |
| Smyrna Mills, by W. J. Dempsey, GP-294, 1962.....  | 29 |
| Houlton, by W. J. Dempsey, GP-295, 1962.....   | 30 |
| Skinner and parts of Attean and Sandy Bay, by R. W. Bromery and<br>F. P. Gilbert, GP-310, 1962.....  | 31 |
| Geologic and aeromagnetic map of northern Maine, by A. J. Boucot,<br>Andrew Griscom, and J. W. Allingham, scale 1:250,000, GP-312, 1964.....<br>(Northwest portion shows profiles only, remainder of map is contoured)               | 32 |
| Aeromagnetic maps of the following quadrangles or areas are at scale 1:62,500:   |    |
| Chain Lakes, by J. R. Henderson and others, GP-330, 1963.....  | 33 |
| Spencer Lake, by R. W. Bromery and others, GP-331, 1963.....   | 34 |
| Kennebago Lake, by J. R. Henderson and others, GP-332, 1963.....   | 35 |
| Stratton, by R. W. Bromery and others, GP-333, 1963.....   | 36 |
| Moosehead Lake and part of First Roach Pond, by J. R. Henderson<br>and others, GP-334, 1963.....   | 37 |
| Greenville and part of Sebec Lake, by R. W. Bromery and<br>others, GP-335, 1963.....   | 38 |
| Stacyville and part of Katahdin, by R. W. Bromery and others, GP-336, 1963.  | 39 |
| Fisher Lake, by L. A. Anderson and others, GP-371, 1963.....   | 40 |
| Part of Winterville, by L. A. Anderson and others, GP-372, 1963.....   | 41 |
| Part of Mooseleuk Lake, by L. A. Anderson and others, GP-373, 1963.....  | 42 |
| Part of Greenlaw, by L. A. Anderson and others, GP-374, 1963.....  | 43 |
| Churchill Lake, by R. W. Bromery and others, GP-375, 1963.....   | 44 |
| Spider Lake and part of Musquacook Lakes, by L. A. Anderson<br>and others, GP-376, 1963.....   | 45 |

# MAINE AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--(cont'd):

|   |    |
|---|----|
| Millinocket Lake, by L. A. Anderson and others, GP-377, 1963.....   | 46 |
| Caucomgomoc Lake, by R. W. Bromery and others, GP-378, 1963.....  | 47 |
| Chesuncook, by R. W. Bromery and others, GP-379, 1963.....  | 48 |
| Telos Lake, by R. W. Bromery and others, GP-380, 1963.....  | 49 |
| Traveler Mountain, by R. W. Bromery and others, GP-381, 1963.....   | 50 |
| Aeromagnetic interpretation and preliminary geology of the Danforth area,<br>Maine, by A. Griscom and D. M. Larrabee, scale 1:62,500, GP-423, 1963.....   | 51 |
| Aeromagnetic maps of the following quadrangles or areas are at scale 1:62,500:  |    |
| Cupsuptic, by G. R. Boynton and F. P. Gilbert, GP-477, 1964.....  | 52 |
| Oquossoc, by G. R. Boynton and F. P. Gilbert, GP-478, 1964.....   | 53 |
| Phillips, by G. R. Boynton and F. P. Gilbert, GP-479, 1964.....   | 54 |
| Rangeley and part of Kennebago Lake, by G. R. Boynton and<br>F. P. Gilbert, GP-480, 1964.....   | 55 |
| The Forks, by R. W. Bromery and N. W. Natof, GP-485, 1964.....  | 56 |
| Old Speck Mountain, by J. R. Henderson and C. W. Smith, GP-486, 1964.....   | 57 |
| Amity, by J. L. Meuschke and J. L. Vargo, GP-487, 1964.....   | 58 |
| Aeromagnetic and geologic map of the Bingham Quadrangle, Somerset<br>County, Maine, by R. E. Mattick, scale 1:62,500, GP-499, 1965.....   | 59 |
| Bedrock geology of the Shin Pond and Stacyville quadrangles, Penobscot<br>County, Maine, by R. B. Neuman, 37 p., Prof. Paper 524-I, 1967.....<br>(Pls. 1 and 2 are geologic-aeromagnetic maps, scale 1:62,500)  | 60 |
| Geology of the Moxie Pluton in the Moosehead Lake - Jo-Mary Mountain area,<br>Piscataquis County, Maine, by G. H. Espenshade, 40 p., Bulletin 1340, 1972.<br>(Pl. 2 shows aeromagnetic contours, scale 1:62,500)                                      | 61 |
| Gravity and magnetic evidence of lithology and structure in the Gulf of<br>Maine region, by M. F. Kane, M. J. Yellin, and K. G. Bell, 22 p.,<br>2 plates, scale 1:1,000,000, Prof. Paper 726-B, 1972.....   | 62 |
| Aeromagnetic map of Mount Washington and vicinity, New Hampshire and<br>Maine, scale 1:62,500, GP-891, 1973.....  | 63 |
| Summary report, geologic and seismologic investigations, by Weston<br>Geophysical Research, Inc., about 136 p., aeromagnetic map scale<br>approx. 1:400,000, Boston Edison Company, Pilgrim Unit 2, Docket<br>No. 50-471, Rept. BE-SG 7602, 1976..... | 64 |

# MAINE AIRBORNE (cont'd)

Map ref.

Aeromagnetic survey of southeastern New England and the western Gulf of Maine, by Weston Geophysical Research, Inc., 57 p., 4 sheets, scale 1:250,000, Boston Edison Company, Pilgrim Unit 2, Docket No. 50-471, Rept. BE-SG 7604, 1976..... 64

The Penobscot lineament zone, Maine, by P. J. Barosh, Internat. Conf. Base. Tectonics, no. 3, p. 119-135, 1978..... 65

Preliminary aeromagnetic map of the Lewiston and Sherbrooke quadrangles, Maine-New Hampshire-Vermont, by W. A. Bothner, R. P. Kucks, and C. E. Jahrling, scale 1:250,000, OF Rept. 85-501, 1985..... 66  
(A gridded digital data tape is available from 5)

Geological, geophysical, and seismological studies related to the 1755 Cape Ann, Massachusetts earthquake, by R. J. Holt, OF Rept. 88-013A, p. 168-180, 1988..... 67

Other publications of interest; not shown on index maps:

Aeromagnetic surveying, by J. R. Balsley, in Advances in Geophysics, v. 1, p. 313-349, N. Y. Acad. Press, 1952.  
(Covers west-central portion of ref. 10)

Aeromagnetic interpretation of zoned intrusions in northern Maine, by J. W. Allingham, in Prof. Paper 424-D, p. 265-266, 1961.

Geophysical and geological reconnaissance of the Oakfield Hills area, Maine, by M. F. Kane and others, in Mining Geophysics, v. 1, (Case histories), Soc. Expl. Geophys., p. 94-104, 1966. (Covers part of ref. 28)

Geology of the Attean Quadrangle, Somerset County, Maine, by A. L. Albee and E. L. Boudette, with a section on Geologic interpretation of the aeromagnetic map, by J. W. Allingham and A. L. Albee, 110 p., Bulletin 1297, 1972.  
(Pl. 1 shows magnetic profiles in southeast part of ref. 30)

Integration of potential-field and digital geologic data for two North American geoscience transects, by J. D. Phillips, Jour. Geol. Education, v. 38, no., 4, p. 330-338, 1990. (Shows a small area in west-central Maine.)

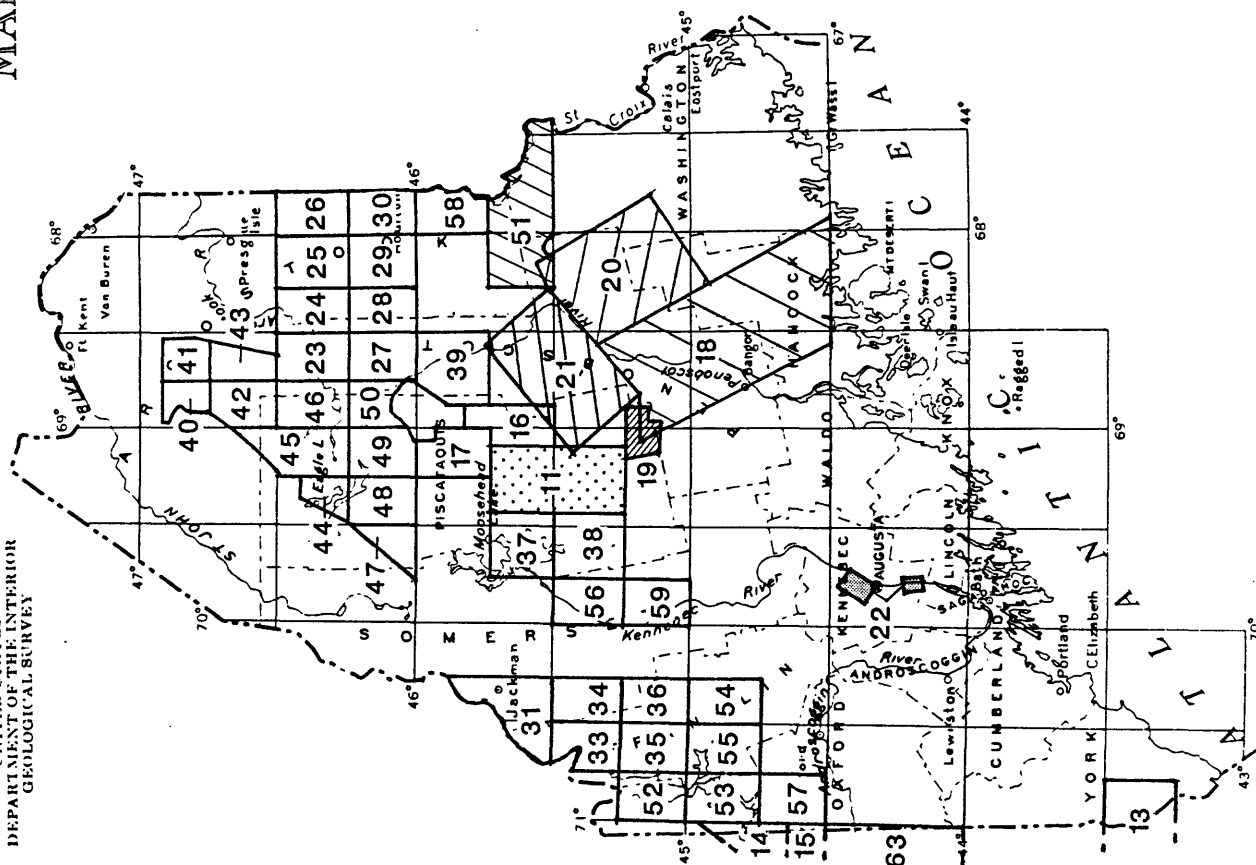
U.S.G.S. open-file reports for Maine are available for viewing at 1, 2, and 3. Additional locations for viewing reports which overlap into adjacent states are listed in that state's index.

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. Maine Geol. Survey, State House Station 22, Augusta, ME 04333
5. N.G.D.C., NOAA, Code E/GC12, 325 Broadway, Boulder, CO 80303

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# MAINE

TOPOGRAPHIC DIVISION  
ATLANTIC REGION  
ARLINGTON, VIRGINIA



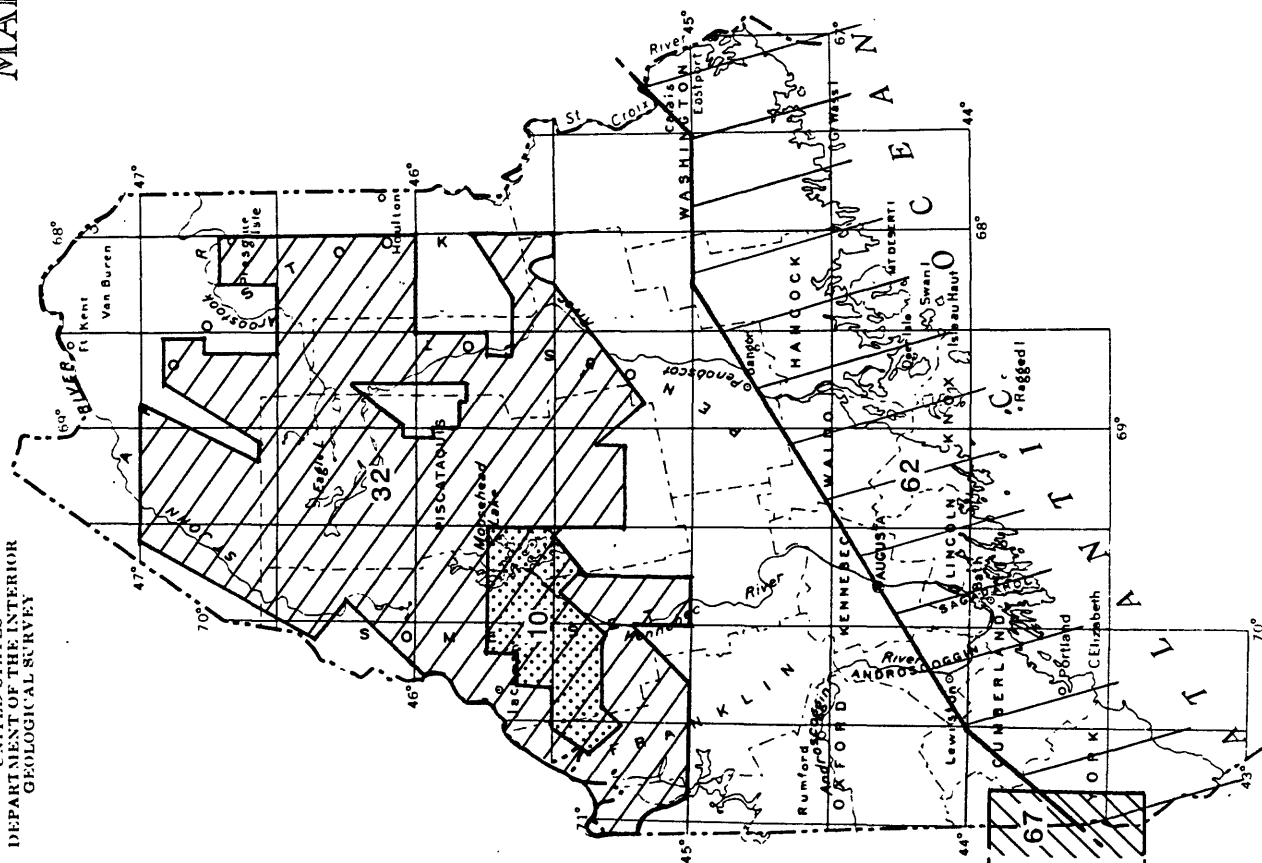
MAP 1



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# MAINE

TOPOGRAPHIC DIVISION  
ATLANTIC REGION  
ARLINGTON, VIRGINIA

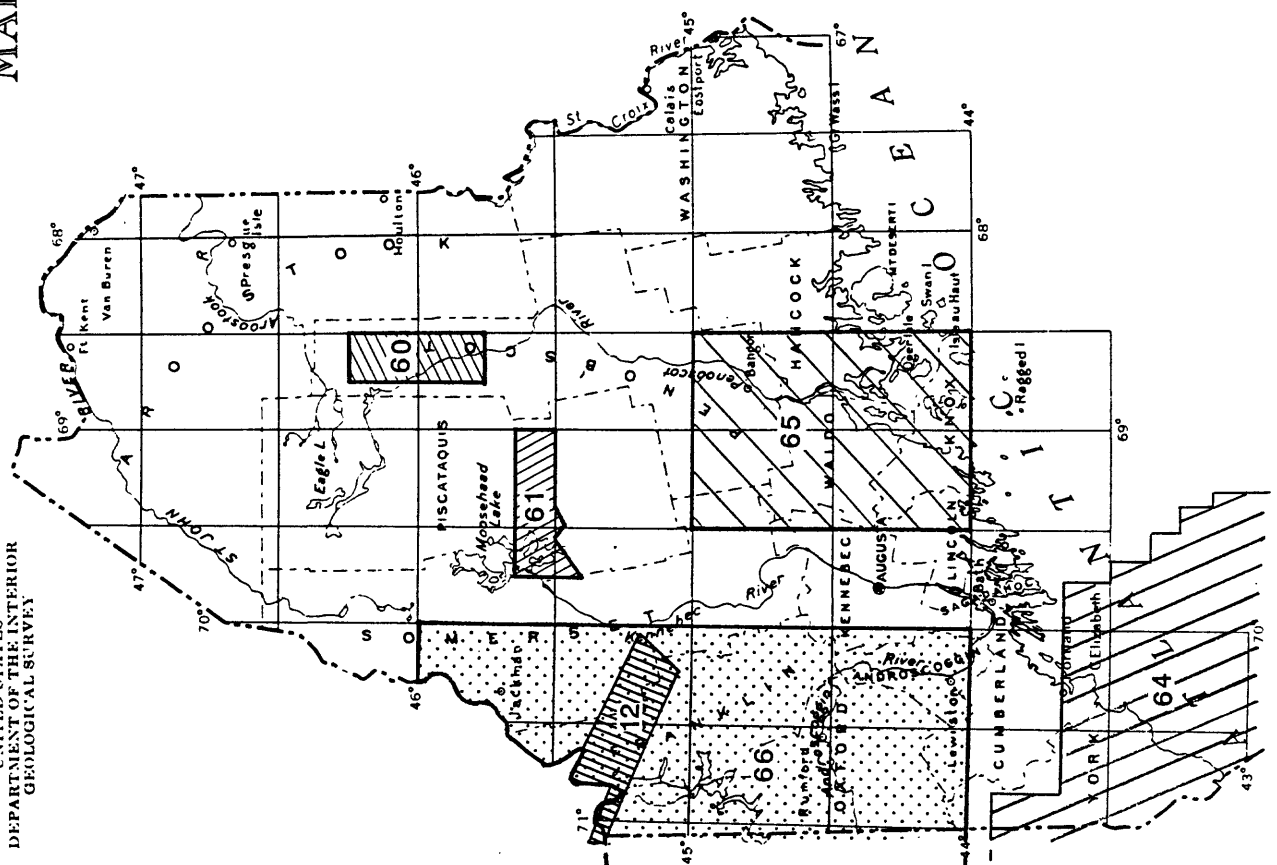


MAP 2



# MAINE

TOPOGRAPHIC DIVISION  
ATLANTIC REGION  
ARLINGTON, VIRGINIA



MAP 3



# MARYLAND - DELAWARE AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 26 except where noted.)

|  | Map ref. |
|--|----------|
| Magnetic maps of Worcester County and part of Wicomico County, Maryland,<br>by J. R. Balsley and others, scale 1:125,000, OM-46, 1946.....   | 10       |
| Comparative study of magnetic surveys of Worcester County, Md., made on<br>the ground and from airplane observations, by H. E. Kuehn, 23 p.,<br>U.S. Bur. Mines Rept., RI-4070, 1947.....  | 10       |
| Interpretation of aeromagnetic maps by Victor Vacquier and others,<br>Geol. Soc. Am. Mem. 47, 151 p., 1951, (reprinted 1963).....  | 10       |
| Aeromagnetic map of part of the Fairfield Quadrangle and part of the<br>Emmitsburg Quadrangle, Adams County, Pennsylvania, and Frederick County,<br>Maryland, by R. W. Bromery and others, scale 1:24,000, GP-283, 1961.....                         | 11       |
| Natural radioactivity in Washington County, Maryland, by R. M. Moxham,<br>Geophysics, v. 28, no. 2, p. 262-272, 1963.....  | 12       |
| Aeromagnetic map of the Wilmington, Delaware, area and adjacent parts<br>of Pennsylvania and Maryland, by J. R. Henderson, and others, scale<br>1:62,500, GP-363, 1963.....  | 13       |
| Aeromagnetic discovery of a Baltimore gneiss dome in the piedmont of<br>northwestern Delaware and southeastern Pennsylvania, by M. W. Higgins,<br>G. W. Fisher, and Isidore Zietz, Geology, v. 1, no. 1, p. 41-43, 1973.....                         | 13       |
| Lineament studies in structural interpretation of a stabilized orogenic<br>region: Appalachian Piedmont, Delaware and adjacent Pennsylvania, by<br>A. M. Thompson and G. M. Hager, Internat. Conf. Basement Tectonics,<br>no. 2, p. 74-85, 1979..... | 13       |
| Aeromagnetic maps and natural gamma aeroradioactivity maps of the following<br>quadrangles are by J. Blanchett and others; scale 1:24,000:   |          |
| Germantown and part of Poolesville, (mag.), GP-394, 1963.....  | 14       |
| Germantown and part of Poolesville, (rad.), GP-567, 1966.....  | 14       |
| Gaithersburg and part of Sandy Spring, (mag.), GP-395, 1963.....   | 15       |
| Gaithersburg and part of Sandy Spring, (rad.), GP-566, 1966.....   | 15       |
| Seneca and part of Sterling, Va. and Md., (mag.), GP-396, 1963.....  | 16       |
| Seneca and part of Sterling, Va. and Md., (rad.), GP-564, 1966.....  | 16       |
| Rockville, Va. and Md., (mag.), GP-397, 1963.....  | 17       |
| Rockville, Va. and Md., (rad.), GP-565, 1966.....  | 17       |
| Aeromagnetic, aeroradioactivity, and gravity investigations of piedmont<br>rocks in the Rockville Quadrangle, Maryland, by Andrew Griscom and<br>D. L. Peterson, <u>in</u> Prof. Paper 424-D, p. 267-271, 1961.....                                  | 17       |

MARYLAND - DELAWARE AIRBORNE (cont'd)

Map ref.

|   |    |
|---|----|
| Aeromagnetic map of the Kensington Quadrangle, Montgomery County, Maryland, by R. W. Bromery and others, scale 1:24,000, GP-398, 1963.....  | 18 |
| Aeromagnetic map of the Beltsville Quadrangle, Montgomery and Prince Georges Counties, Maryland, by R. W. Bromery and others, scale 1:24,000, GP-399, 1963.....   | 19 |
| (Aeroradioactivity survey) Camden-Delaware Valley area (ARMS-II), by R. B. Guillou, 20 p., 3 sheets, scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-61.6.3, 1963.....<br>(Copies available from 6)   | 20 |
| Aeromagnetic map of western Pennsylvania and parts of eastern Ohio, northern West Virginia, and western Maryland, by Peter Popenoe, A. J. Petty, and N. S. Tyson, scale 1:250,000, GP-445, 1964.....  | 21 |
| Interpretation of an aeromagnetic survey in western Pennsylvania and parts of eastern Ohio, northern West Virginia, and western Maryland, by M. E. Beck, Jr., and R. E. Mattick, 10 p., Pennsylvania Topo. and Geol. Survey, Info. Circ. 52, 1964.....<br>(This report interprets GP-445) | 21 |
| Natural gamma aeroradioactivity map of the Pittsburgh area, Pennsylvania, Ohio, West Virginia, and Maryland, by R. G. Bates, scale 1:250,000, GP-555, 1966.....   | 21 |
| Aeroradioactivity survey and areal geology of the Pittsburgh area, Pennsylvania, Ohio, West Virginia, and Maryland (ARMS-I), by R. G. Bates, 20 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.12, 1966..<br>(Copies available from 6)                                      | 21 |
| Aeromagnetic map of Bel Air and vicinity, Harford, Baltimore, and Cecil counties, Maryland, by R. W. Bromery, A. J. Petty, and C. W. Smith, scale 1:62,500, GP-482, 1964.....   | 22 |
| Natural gamma aeroradioactivity map of Bel Air and vicinity, Harford, Baltimore, and Cecil counties, Maryland, by R. W. Bromery, A. J. Petty, and F. P. Gilbert, scale 1:62,500, GP-484, 1964.....  | 22 |
| Natural gamma aeroradioactivity map of the District of Columbia and parts of Maryland, Virginia, and West Virginia, by S. K. Neuschel, scale 1:250,000, GP-475, 1965.....   | 23 |
| Aeroradioactivity survey and areal geology of the District of Columbia and parts of Maryland, Virginia, and West Virginia, by S. K. Neuschel, 40 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.17, 1966..<br>(Copies available from 8)                                     | 23 |
| Aeromagnetic map of Baltimore County and Baltimore City, Maryland, by R. W. Bromery, scale 1:62,500, GP-613, 1967.....  | 24 |

MARYLAND - DELAWARE AIRBORNE (cont'd)

Map ref.

|   |    |
|---|----|
| Airborne measurements of terrestrial radioactivity as an aid to geologic mapping, by J. A. Pitkin, 29 p., Prof. Paper 516-F, 1968.....<br>(Figs. 4, 5, and 13 show aeroradioactivity and geology)   | 25 |
| Aeromagnetic map of part of Cecil County, Maryland, and parts of adjacent counties in Maryland and Delaware, scale 1:62,500, GP-755, 1971.....  | 26 |
| Aeromagnetic map of part of Kent County, Maryland, and parts of adjacent counties in Maryland and Delaware, scale 1:62,500, GP-756, 1971.....   | 27 |
| Aeromagnetic map of Cumberland and vicinity, Maryland, and adjacent states, scale 1:250,000, GP-842, 1972.....  | 28 |
| Aeromagnetic map of northern Frederick County, Maryland, and parts of adjacent counties in Maryland and Pennsylvania, scale 1:62,500, OF Rept. 73-291, 1973.....  | 29 |
| Aeromagnetic map of southeastern Maryland, 2 sheets, scale 1:62,500, OF Rept. 73-296, 1973.....   | 30 |
| Interpretation of aeromagnetic anomalies bearing on the origin of upper Chesapeake Bay and river course changes in the central Atlantic Seaboard region: Speculations, by M. W. Higgins, Isidore Zietz, and G. W. Fisher, Geology, v. 2, no. 2, p. 73-76, 1974..... | 31 |
| New data bearing on the structural significance of the upper Chesapeake Bay magnetic anomaly, by J. Edwards, Jr., and H. J. Hansen, 44 p., Maryland Geol. Survey, Rept. Invest. 30, 1979.....   | 31 |
| Interpretation of aeromagnetic data in southwest Connecticut, and evidence for faulting along the northern Fall Line, by P. J. Barosh, Internat. Conf. Basement Tectonics, no. 2, p. 99-110, 1979.....  | 31 |
| (Same title and author as above), 25 p., U.S. Nuclear Reg. Comm. Rept. NUREG/CR-2128, 1981.....   | 31 |
| Aeromagnetic map of Carroll County, Maryland, scale 1:62,500, OF Rept. 74-205, 1974.....  | 32 |
| Aeromagnetic map of Frederick County, Maryland, scale 1:62,500, OF Rept. 74-206, 1974.....  | 33 |
| Aeromagnetic map of Howard County, Maryland, scale 1:62,500, OF Rept. 74-207, 1974.....   | 34 |
| Aeromagnetic map of Montgomery County, Maryland, scale 1:62,500, OF Rept. 74-208, 1974.....   | 35 |
| Aeromagnetic map of eastern Dorchester County, Maryland, and parts of adjacent counties, scale 1:62,500, GP-898, 1974.....  | 36 |

MARYLAND - DELAWARE AIRBORNE (cont'd)

Map ref.

|   |              |
|---|--------------|
| Aeromagnetic map of western Dorchester, County, Maryland, and parts of adjacent counties, scale 1:62,500, GP-899, 1974.....   | 37           |
| Aeromagnetic map of southern Queen Annes County, Maryland, and parts of adjacent counties, scale 1:62,500, GP-900, 1974.....  | 38           |
| Aeromagnetic map of Maryland, by Isidore Zietz, F. P. Gilbert, and J. R. Kirby, scale 1:250,000, GP-923, 1978.....  | whole state  |
| Gravity, magnetic, and structure: Allegheny Plateau/Western Valley and Ridge in West Virginia and adjacent states, by B. R. Kulander and S. L. Dean, 91 p., 3 sheets, scale 1:250,000, West Virginia Geol. and Econ. Survey, Rept. Invest. 27, 1978.....<br>(Pl. 3 is a combination of ground and airborne magnetics) | 39           |
| Aeroradioactivity map of parts of Delaware and New Jersey, 2 sheets, scale 1:250,000, OF Rept. 79-1646, 1979.....   | 40           |
| Aeromagnetic map of parts of Delaware and New Jersey, 2 sheets, scale 1:250,000, OF Rept. 79-1683, 1979.....  | 40           |
| Geological interpretations of aeromagnetic maps of the crystalline rocks in the Appalachians, northern Virginia to New Jersey, by G. W. Fisher, M. W. Higgins, and Isidore Zietz, 43 p., 3 sheets, scale 1:250,000, Maryland Geol. Survey, Rept. Invest. 32, 1979.....  | 41           |
| Aeromagnetic map of Delaware, Maryland, Pennsylvania, West Virginia, and parts of New Jersey and New York (in color), by Isidore Zietz, F. P. Gilbert, and J. R. Kirby, Jr., scale 1:1,000,000, GP-927, 1980.....   | whole states |
| Aeromagnetic map of the Culpeper Basin and vicinity, Virginia and Maryland, scale 1:125,000, OF Rept. 81-472, 1981.....   | 42           |
| The Eastern Hot Dry Rock Target Prospect: A case history, by C. E. Schubert, J. C. Maxwell, and W. J. Johnson, Trans., Geothermal Resources Council, v. 4, p. 241-244, 1980.....  | 43           |
| Aeromagnetic imagery with geologic correlations for some early Mesozoic basins of the eastern United States, by K. R. Bond and J. D. Phillips, <u>in</u> Studies of the early Mesozoic basins of the Eastern United States, Bulletin 1776, p. 253-264, 1988.....  | 44           |
| Other publications of interest; not shown on index maps:  |              |
| Gravity and magnetic investigation, Eastern Shore area, Virginia, by M. A. Sabet, Geol. Soc. Am. Bull., v. 84, no. 6, p. 2119-2126, 1973.<br>(contains a combined ground and airborne magnetic map)   |              |
| Preliminary results of seismic and magnetic survey off Delaware's coast, by K. D. Woodruff, 19 p., Delaware Geol. Survey, Open-File Rept. 10, 1977.<br>(interprets aeromagnetics just off the coast)  |              |

MARYLAND - DELAWARE AIRBORNE (cont'd)

Other publications--cont'd:

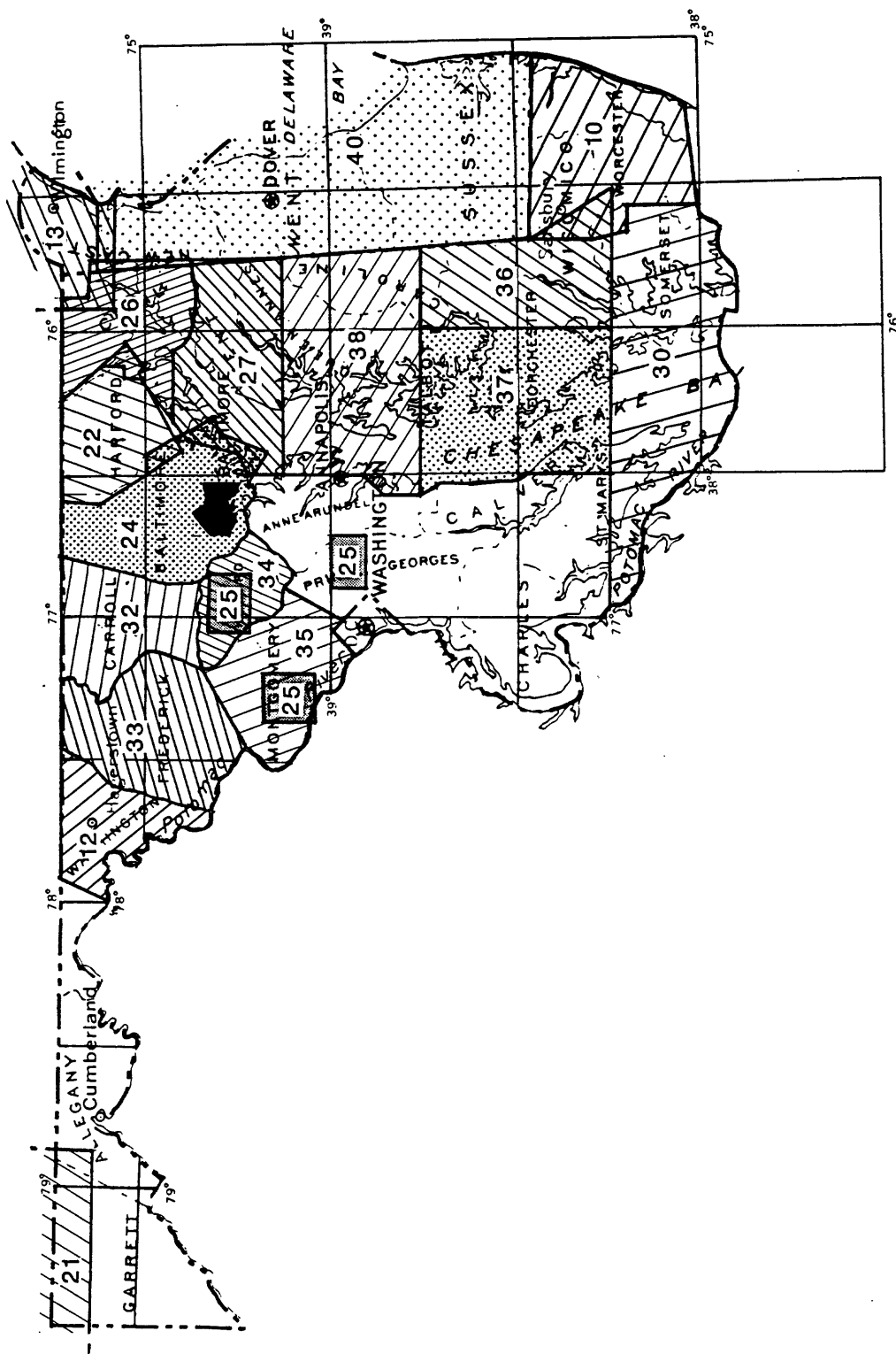
The interaction of geology, weather, and home construction on indoor radon in northern Virginia and southern Maryland, by D. G. Mose, G. W. Mushrush, and S. W. Kline, Northeast. Environ. Sci., v. 7, no. 1, p. 15-29, 1988. (magnetics taken from ref. 35)

Magnetic survey of the western serpentinite belt, northern Hartford County, Maryland, by M. J. Freeman, D. F. Palmer, and R. A. Heimlich, Southeast. Geol., v. 29, no. 2, p. 103-128, 1988.

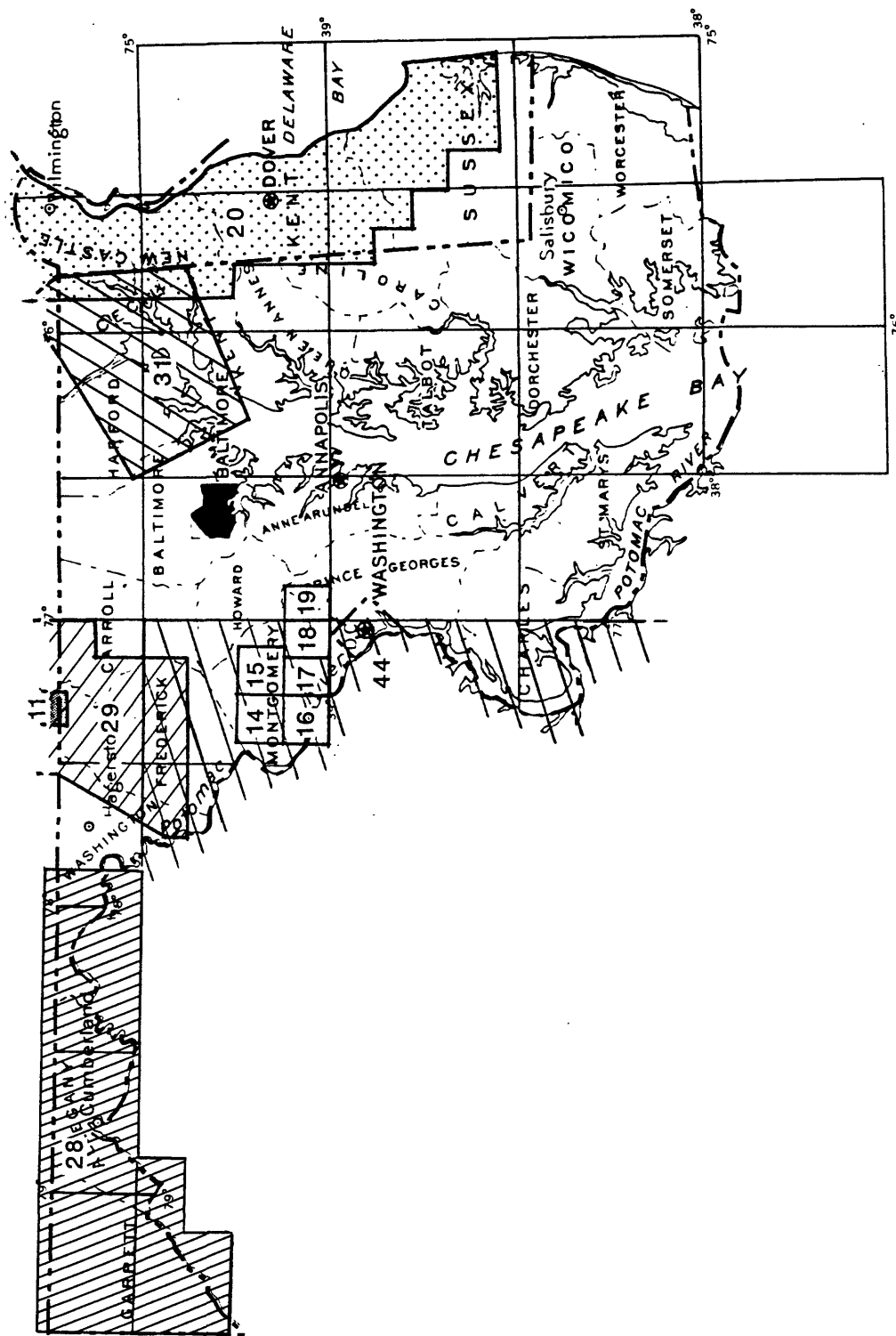
U.S.G.S. open-file reports for Maryland are available for viewing at 1, 2, 3, 4, and for Delaware at 1, 2, 3, 5. Additional locations for viewing reports which overlap into adjacent states are listed in that state's index.

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. Maryland Geol. Survey, The Rotunda, 711 W. 40th St., Suite 440, Baltimore, MD 21211
5. Delaware Geol. Survey, Univ. of Delaware, 101 Penny Hall, Newark, DE 19716
6. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161

# MARYLAND, DELAWARE, D. C.

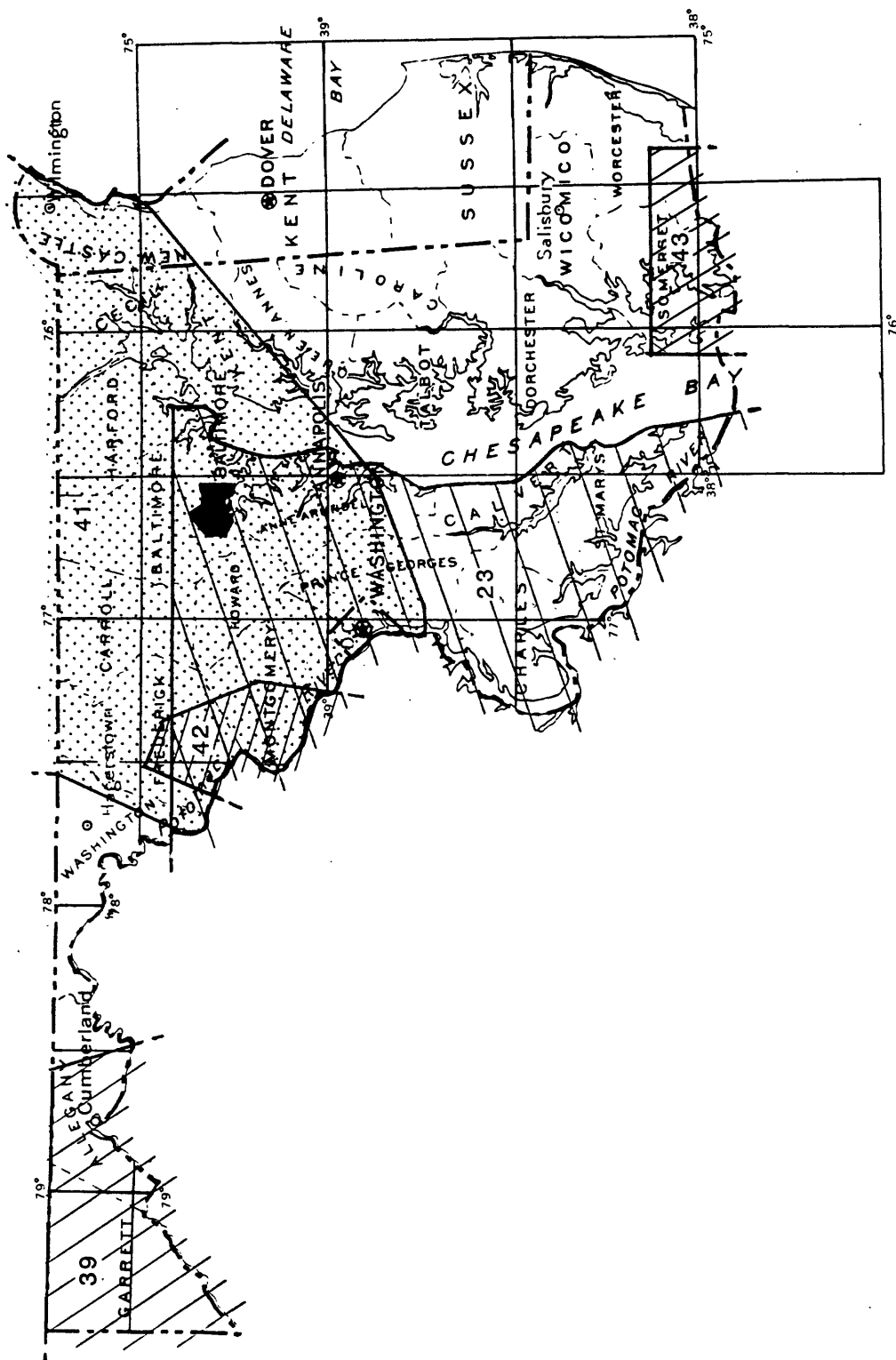


# MARYLAND, DELAWARE, D. C.



MAP 2

# MARYLAND, DELAWARE, D. C.



MAP 3



# MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 42 except where noted.)

Map ref.

NOTE: Due to the extensive 7 1/2-minute quadrangle coverage in these states, all of these quadrangles are listed together beginning on this page and map referenced by their GP numbers. GP's covering larger areas are referenced with other publications following the quadrangle list.

Aeromagnetic maps of the following quadrangles are by Peter Popenoe and others, unless otherwise noted, scale 1:24,000:

|  |     |
|--|-----|
| Brewster, Conn. and N.Y., GP-364, 1962.....  | 364 |
| Danbury, Conn., GP-365, 1962.....  | 365 |
| Newton, Conn., GP-366, 1962.....   | 366 |
| Peach Lake, Conn. and N.Y., GP-367, 1962.....  | 367 |
| Bethel, Conn., GP-368, 1962.....   | 368 |
| Botsford, Conn., GP-369, 1962.....   | 369 |
| Ashfield, Mass., by J. L. Meuschke and G. L. Zandle, GP-429, 1963.....                   | 429 |
| Bernardston, Mass. and Vt., by G. E. Andreasen and G. L. Zandle, GP-430, 1963.....       | 430 |
| Colrain, Mass. and Vt., by G. E. Andreasen and G. L. Zandle, GP-431, 1963.....           | 431 |
| Greenfield, Mass., by J. L. Meuschke and G. L. Zandle, GP-432, 1963.....                 | 432 |
| Heath, Mass. and Vt., GP-433, 1963.....  | 433 |
| Millers Falls, Mass., GP-434, 1963.....  | 434 |
| Northfield, Mass., Vt., and N.H., by G. E. Andreasen and G. L. Zandle, GP-435, 1963..... | 435 |
| Plainfield, Mass., by J. L. Meuschke and G. L. Zandle, GP-436, 1963.....                 | 436 |
| Rowe, Mass. and Vt., GP-437, 1963.....   | 437 |
| Shelburne Falls, Mass., by J. L. Meuschke and G. L. Zandle, GP-438, 1963..               | 438 |
| Beckett, Mass., GP-448, 1964.....  | 448 |
| Berlin, Mass., N.Y. and Vt., GP-449, 1964.....   | 449 |
| Part of Canaan, Mass. and N.Y., GP-450, 1964.....  | 450 |
| Cheshire, Mass., GP-451, 1964.....   | 451 |
| East Lee, Mass., GP-452, 1964.....   | 452 |
| Hancock, Mass. and N.Y., GP-453, 1964.....   | 453 |
| North Adams, Mass. and Vt., GP-454, 1964.....  | 454 |
| Peru, Mass., GP-455, 1964.....   | 455 |
| Pittsfield East, Mass., GP-456, 1964.....  | 456 |
| Pittsfield West, Mass., and N.Y., GP-457, 1964.....                                      | 457 |

# MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--(cont'd):

|  |     |
|--|-----|
| State Line, Mass. and N.Y., GP-458, 1964.....                      | 458 |
| Stockbridge, Mass., GP-459, 1964.....                              | 459 |
| Williamstown, Mass. and Vt., GP-460, 1964.....                     | 460 |
| Windsor, Mass., GP-461, 1964.....                                  | 461 |
| Part of Ashley Falls, Mass. and Conn., GP-526, 1965.....           | 526 |
| Part of Bashbish Falls, Mass., Conn. and N.Y., GP-527, 1965.....   | 527 |
| Blandford, Mass., GP-528, 1965.....                                | 528 |
| Egremont and part of State Line, Mass. and N.Y., GP-529, 1965..... | 529 |
| Great Barrington, Mass., GP-530, 1965.....                         | 530 |
| Monterey, Mass., GP-531, 1965.....                                 | 531 |
| Otis, Mass., GP-532, 1965.....                                     | 532 |
| Part of South Sandisfield, Mass. and Conn., GP-533, 1965.....      | 533 |
| Part of Southwick, Mass. and Conn., GP-534, 1965.....              | 534 |
| Part of Tolland Center, Mass. and Conn., GP-535, 1965.....         | 535 |
| Part of West Granville, Mass. and Conn., GP-536, 1965.....         | 536 |
| Woronoco, Mass., GP-537, 1965.....                                 | 537 |

## Aeromagnetic maps of the following quadrangles are by G. R. Boynton and C. W. Smith, scale 1:24,000:

|   |     |
|---|-----|
| Jewett City, Conn., GP-539, 1965.....                             | 539 |
| Scotland, Conn., GP-540, 1965.....                                | 540 |
| Plainfield, Conn., GP-541, 1965.....                              | 541 |
| Oneco, Conn. and R.I., GP-542, 1965.....                          | 542 |
| Norwich, Conn., GP-543, 1965.....                                 | 543 |
| Old Mystic and part of Mystic, Conn. and R.I., GP-544, 1965.....  | 544 |
| Voluntown, Conn. and R.I., GP-545, 1965.....                      | 545 |
| Uncasville and part of New London, Conn., GP-546, 1965.....       | 546 |
| Ashaway and part of Watch Hill, Conn. and R.I., GP-547, 1965..... | 547 |

## Aeromagnetic maps of the following quadrangles are by P. W. Philbin and C. W. Smith, scale 1:24,000:

|  |     |
|--|-----|
| Ellsworth, Conn., GP-583, 1966.....      | 583 |
| Cornwall, Conn., GP-584, 1966.....       | 584 |
| Spring Hill, Conn., GP-585, 1966.....    | 585 |
| South Coventry, Conn., GP-586, 1966..... | 586 |

MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

Map ref.

Aeromagnetic maps--(cont'd):

|   |     |
|---|-----|
| Rockville, Conn., GP-587, 1966.....                                 | 587 |
| Collinsville, Conn., GP-588, 1966.....                              | 588 |
| Torrington, Conn., GP-589, 1966.....                                | 589 |
| West Torrington, Conn., GP-590, 1966.....                           | 590 |
| East Killingly and part of Oneco, Conn. and R.I., GP-591, 1966..... | 591 |
| Danielson and part of Plainfield, Conn., GP-592, 1966.....          | 592 |
| Hampton and part of Scotland, Conn., GP-593, 1966.....              | 593 |
| Avon, Conn., GP-594, 1966.....                                      | 594 |
| Hartford North, Conn., GP-595, 1966.....                            | 595 |
| Manchester, Conn., GP-596, 1966.....                                | 596 |

Aeromagnetic maps of the following quadrangles are by U.S. Geological Survey; scale 1:24,000:

|   |     |
|---|-----|
| Palmer, Mass., GP-617, 1968.....  | 617 |
| Springfield North, Mass., GP-618, 1968.....   | 618 |
| Ludlow, Mass., GP-619, 1968.....  | 619 |
| Warren, Mass., GP-620, 1968.....  | 620 |
| East Brookfield, Mass., GP-621, 1968.....   | 621 |
| Mount Tom and part of Woronoco, Mass., GP-622, 1968.....                            | 622 |
| Worcester South, Mass., GP-623, 1968.....   | 623 |
| Leicester, Mass., GP-624, 1968.....   | 624 |
| Chester and parts of Beckett and Blandford, Mass., GP-625, 1968.....                | 625 |
| Goshen and part of Ashfield, Mass., GP-626, 1968.....                               | 626 |
| Worthington and parts of Plainfield and Peru, Mass., GP-627, 1968.....              | 627 |
| Westhampton and part of Woronoco, Mass., GP-628, 1968.....                          | 628 |
| Hampden, Mass. and Conn., GP-629, 1968.....   | 629 |
| Monson, Mass. and Conn., GP-630, 1968.....  | 630 |
| Southbridge, Mass. and Conn., GP-631, 1968.....                                     | 631 |
| Springfield South, Mass. and Conn., GP-632, 1968.....                               | 632 |
| Wales, Mass. and Conn., GP-633, 1968.....   | 633 |
| Webster, Mass. and Conn., GP-634, 1968.....   | 634 |
| West Springfield and part of Southwick, Mass. and Conn., GP-635, 1968.....          | 635 |
| Sharon and parts of Ellsworth and Bashbish Falls, Conn. and N.Y., GP-640, 1969..... | 640 |

MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

Map ref.

Aeromagnetic maps--(cont'd):

|   |     |
|---|-----|
| South Canaan and parts of Cornwall and Ashley Falls, Conn., GP-641, 1969..              | 641 |
| Norfolk and parts of West Torrington and South Sandisfield,<br>Conn., GP-642, 1969..... | 642 |
| Winsted and parts of Torrington and Tolland Center, Conn., GP-643, 1969...              | 643 |
| New Hartford and parts of Collinsville and West Granfield,<br>Conn., GP-644, 1969.....  | 644 |
| Tarriffville and parts of Avon and Southwick, Conn. and<br>Mass., GP-645, 1969.....     | 645 |
| Windsor Locks and part of Hartford North, Conn., GP-646, 1969.....                      | 646 |
| Broad Brook and part of Manchester, Conn., GP-647, 1969.....                            | 647 |
| Ellington and part of Rockville, Conn., GP-648, 1969.....                               | 648 |
| Stafford Springs and part of South Coventry, Conn., GP-649, 1969.....                   | 649 |
| Westford and part of Spring Hill, Conn., GP-650, 1969.....                              | 650 |
| Eastford and part of Hampton, Conn., GP-651, 1969.....                                  | 651 |
| Putnam and part of Danielson, Conn., GP-652, 1969.....                                  | 652 |
| Thompson and part of East Killingly, Conn. and R.I., GP-653, 1969.....                  | 653 |
| Williamsburg and part of Shelburne Falls, Mass., GP-659, 1969.....                      | 659 |
| Mt. Toby and part of Greenfield, Mass., GP-660, 1969.....                               | 660 |
| Easthampton, Mass., GP-661, 1969.....   | 661 |
| Mt. Holyoke, Mass., GP-662, 1969.....   | 662 |
| Belchertown, Mass., GP-663, 1969.....   | 663 |
| Winsor Dam, Mass., GP-664, 1969.....  | 664 |
| Ware, Mass., GP-665, 1969.....  | 665 |
| North Brookfield, Mass., GP-666, 1969.....  | 666 |
| Paxton, Mass., GP-667, 1969.....  | 667 |
| Worcester North, Mass., GP-668, 1969.....   | 668 |
| Shrewsbury, Mass., GP-672, 1969.....  | 672 |
| Marlboro, Mass., GP-673, 1969.....  | 673 |
| Framingham, Mass., GP-674, 1969.....  | 674 |
| Natick, Mass., GP-675, 1969.....  | 675 |
| Newton, Mass., GP-676, 1969.....  | 676 |
| Boston South, Mass., GP-677, 1969.....  | 677 |
| Hull, Mass., GP-678, 1969.....  | 678 |
| Nantasket South, Mass., GP-679, 1969.....   | 679 |

# MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--(cont'd):

|   |     |
|---|-----|
| Shutesbury and part of Millers Falls, Mass., GP-697, 1970.....      | 697 |
| Quabbin Reservoir, Mass., GP-698, 1970.....                         | 698 |
| Petersham, Mass., GP-699, 1970.....                                 | 699 |
| Barre, Mass., GP-700, 1970.....                                     | 700 |
| Wachusett Mtn., Mass., GP-701, 1970.....                            | 701 |
| Sterling, Mass., GP-702, 1970.....                                  | 702 |
| Clinton, Mass., GP-703, 1970.....                                   | 703 |
| Hudson, Mass., GP-704, 1970.....                                    | 704 |
| Maynard, Mass., GP-705, 1970.....                                   | 705 |
| Concord, Mass., GP-706, 1970.....                                   | 706 |
| Lexington, Mass., GP-707, 1970.....                                 | 707 |
| Boston North, Mass., GP-708, 1970.....                              | 708 |
| Lynn, Mass., GP-709, 1970.....                                      | 709 |
| Part of Marblehead South, Mass., GP-710, 1970.....                  | 710 |
| Part of Salem Depot, N.H. and Mass., GP-712, 1970.....              | 712 |
| Part of Haverhill, Mass. and N.H., GP-713, 1970.....                | 713 |
| Part of Newburyport West, Mass. and N.H., GP-714, 1970.....         | 714 |
| Part of Newburyport East, Mass. and N.H., GP-715, 1970.....         | 715 |
| Lawrence, Mass. and N.H., GP-716, 1970.....                         | 716 |
| South Groveland, Mass., GP-717, 1970.....                           | 717 |
| Georgetown, Mass., GP-718, 1970.....                                | 718 |
| Part of Ipswich, Mass., GP-719, 1970.....                           | 719 |
| Wilmington, Mass., GP-720, 1970.....                                | 720 |
| Reading, Mass., GP-721, 1970.....                                   | 721 |
| Salem, Mass., GP-722, 1970.....                                     | 722 |
| Part of Marblehead North, Mass., GP-723, 1970.....                  | 723 |
| Parts of Gloucester and Rockport, Mass., GP-724, 1970.....          | 724 |
| Mt. Grace and part of Northfield, Mass. and N.H., GP-726, 1971..... | 726 |
| Royalston, Mass. and N.H., GP-727, 1971.....                        | 727 |
| Wichendon, Mass. and N.H., GP-728, 1971.....                        | 728 |
| Ashburnham, Mass. and N.H., GP-729, 1971.....                       | 729 |
| Ashby, Mass. and N.H., GP-730, 1971.....                            | 730 |
| Townsend, Mass. and N.H., GP-731, 1971.....                         | 731 |

# MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--(cont'd):

|   |     |
|---|-----|
| Pepperell, Mass. and N.H., GP-732, 1971.....      | 732 |
| Nashua South, Mass. and N.H., GP-733, 1971.....   | 733 |
| Lowell, Mass. and N.H., GP-734, 1971.....         | 734 |
| Orange, Mass., GP-735, 1971.....                  | 735 |
| Athol, Mass., GP-736, 1971.....                   | 736 |
| Templeton, Mass., GP-737, 1971.....               | 737 |
| Gardner, Mass., GP-738, 1971.....                 | 738 |
| Fitchburg, Mass., GP-739, 1971.....               | 739 |
| Shirley, Mass., GP-740, 1971.....                 | 740 |
| Ayer, Mass., GP-741, 1971.....                    | 741 |
| Westford, Mass., GP-742, 1971.....                | 742 |
| Billerica, Mass., GP-743, 1971.....               | 743 |
| Grafton, Mass., GP-759, 1971.....                 | 759 |
| Milford, Mass., GP-760, 1971.....                 | 760 |
| Holliston, Mass., GP-761, 1971.....               | 761 |
| Medfield, Mass., GP-762, 1971.....                | 762 |
| Norwood, Mass., GP-763, 1971.....                 | 763 |
| Blue Hills, Mass., GP-764, 1971.....              | 764 |
| Weymouth, Mass., GP-765, 1971.....                | 765 |
| Part of Cohasset, Mass., GP-766, 1971.....        | 766 |
| Part of Scituate, Mass., GP-767, 1971.....        | 767 |
| Oxford, Mass., Conn., and R.I., GP-768, 1971..... | 768 |
| Oxbridge, Mass. and R.I., GP-769, 1971.....       | 769 |
| Blackstone, Mass. and R.I., GP-770, 1971.....     | 770 |
| Franklin, Mass. and R.I., GP-771, 1971.....       | 771 |
| Wrentham, Mass., GP-772, 1971.....                | 772 |
| Mansfield, Mass., GP-773, 1971.....               | 773 |
| Brockton, Mass., GP-774, 1971.....                | 774 |
| Whitman, Mass., GP-775, 1971.....                 | 775 |
| Hanover, Mass., GP-776, 1971.....                 | 776 |
| Part of Duxbury, Mass., GP-777, 1971.....         | 777 |
| Part of Chepachet, R.I., GP-778, 1971.....        | 778 |
| Georgiaville, R.I., GP-779, 1971.....             | 779 |

MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

Map ref.

Aeromagnetic maps--(cont'd):

|  |     |
|--|-----|
| Pawtucket, R.I. and Mass., GP-780, 1971.....           | 780 |
| Attleboro, Mass. and R.I., GP-781, 1971.....           | 781 |
| Norton, Mass., GP-782, 1971.....                       | 782 |
| Taunton, Mass., GP-783, 1971.....                      | 783 |
| Bridgewater, Mass., GP-784, 1971.....                  | 784 |
| Plympton, Mass., GP-785, 1971.....                     | 785 |
| Plymouth, Mass., GP-786, 1971.....                     | 786 |
| Part of Manomet, Mass., GP-787, 1971.....              | 787 |
| Clayville, R.I., GP-788, 1971.....                     | 788 |
| North Scituate, R.I., GP-789, 1971.....                | 789 |
| Providence, R.I., GP-790, 1971.....                    | 790 |
| East Providence, Mass. and R.I., GP-791, 1971.....     | 791 |
| Somerset, Mass., GP-792, 1971.....                     | 792 |
| Assonet, Mass., GP-793, 1971.....                      | 793 |
| Assawompset Pond, Mass., GP-794, 1971.....             | 794 |
| Snipatuit Pond, Mass., GP-795, 1971.....               | 795 |
| Wareham, Mass., GP-796, 1971.....                      | 796 |
| Part of Sagamore, Mass., GP-797, 1971.....             | 797 |
| Part of Fall River, Mass. and R.I., GP-798, 1971.....  | 798 |
| Fall River East, Mass., GP-799, 1971.....              | 799 |
| New Bedford North, Mass., GP-800, 1971.....            | 800 |
| Marion, Mass., GP-801, 1971.....                       | 801 |
| Onset, Mass., GP-802, 1971.....                        | 802 |
| Pocasset, Mass., GP-803, 1971.....                     | 803 |
| Part of Sandwich, Mass., GP-804, 1971.....             | 804 |
| Part of Hyannis, Mass., GP-805, 1971.....              | 805 |
| Part of Dennis, Mass., GP-806, 1971.....               | 806 |
| Parts of Harwich and Orleans, Mass., GP-807, 1971..... | 807 |
| Parts of Chatham and Orleans, Mass., GP-808, 1971..... | 808 |
| Part of Westport, Mass. and R.I., GP-809, 1971.....    | 809 |
| New Bedford South, Mass., GP-810, 1971.....            | 810 |
| Sconticut Neck, Mass., GP-811, 1971.....               | 811 |
| Part of Woods Hole, Mass., GP-812, 1971.....           | 812 |

MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

Map ref.

Aeromagnetic maps--(cont'd):

|  |     |
|--|-----|
| Part of Falmouth, Mass., GP-813, 1971.....                                 | 813 |
| Part of Cotuit, Mass., GP-814, 1971.....                                   | 814 |
| Kent, Conn., GP-816, 1971.....   | 816 |
| New Preston, Conn., GP-817, 1971.....                                      | 817 |
| New Milford, Conn., GP-818, 1971.....                                      | 818 |
| Roxbury, Conn., GP-819, 1971.....  | 819 |
| Parts of Ossining and Mt. Kisco, N.Y. and Conn., GP-820, 1971.....         | 820 |
| Pound Ridge, N.Y. and Conn., GP-821, 1971.....                             | 821 |
| Norwalk North, Conn. and N.Y., GP-822, 1971.....                           | 822 |
| Westport, Conn., GP-823, 1971.....   | 823 |
| Parts of Bridgeport and Milford, Conn., GP-824, 1971.....                  | 824 |
| Parts of White Plains and Glenville, N.Y. and Conn., GP-825, 1971.....     | 825 |
| Stamford, Conn., GP-826, 1971.....   | 826 |
| Parts of Norwalk South and Sherwood Point, Conn., GP-827, 1971.....        | 827 |
| Litchfield, Conn., GP-843, 1973.....                                       | 843 |
| Thomaston and part of Torrington, Conn., GP-844, 1973.....                 | 844 |
| Bristol and part of Collinsville, Conn., GP-845, 1973.....                 | 845 |
| New Britain and part of Avon, Conn., GP-846, 1973.....                     | 846 |
| Hartford South and part of Hartford North, Conn., GP-847, 1973.....        | 847 |
| Glastonbury, Conn., GP-848, 1973.....                                      | 848 |
| Marlborough and part of Rockville, Conn., GP-849, 1973.....                | 849 |
| Columbia and part of South Coventry, Conn., GP-850, 1973.....              | 850 |
| Willimantic and parts of Spring Hill and Scotland, Conn., GP-851, 1973.... | 851 |
| Woodbury, Conn., GP-852, 1973.....   | 852 |
| Waterbury, Conn., GP-853, 1973.....  | 853 |
| Southington, Conn., GP-854, 1973.....                                      | 854 |
| Meriden, Conn., GP-855, 1973.....  | 855 |
| Middletown, Conn., GP-856, 1973.....                                       | 856 |
| Middle Haddam, Conn., GP-857, 1973.....                                    | 857 |
| Moodus, Conn., GP-858, 1973.....   | 858 |
| Cochester, Conn., GP-859, 1973.....  | 859 |
| Fitchville and part of Norwich, Conn., GP-860, 1973.....                   | 860 |
| Southbury and part of Newtown, Conn., GP-862, 1973.....                    | 862 |

MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

Map ref.

Aeromagnetic maps--(cont'd):

|  |        |
|--|--------|
| Naugatuck, Conn., GP-863, 1973.....  | 863    |
| Mount Carmel, Conn., GP-864, 1973.....   | 864    |
| Wallingford, Conn., GP-865, 1973.....  | 865    |
| Durham, Conn., GP-866, 1973.....   | 866    |
| Haddam, Conn., GP-867, 1973.....   | 867    |
| Deep River, Conn., GP-868, 1973.....   | 868    |
| Hamburg, Conn., GP-869, 1973.....  | 869    |
| Montville and part of Uncasville, Conn., GP-870, 1973.....   | 870    |
| Long Hill and part of Botsford, Conn., GP-871, 1973.....   | 871    |
| Ansonia, Conn., GP-872, 1973.....  | 872    |
| New Haven, Conn., GP-873, 1973.....  | 873    |
| Branford, Conn., GP-874, 1973.....   | 874    |
| Guilford, Conn., GP-875, 1973.....   | 875    |
| Clinton, Conn., GP-876, 1973.....  | 876    |
| Part of Essex, Conn., GP-877, 1973.....  | 877    |
| Part of Old Lyme, Conn., GP-878, 1973.....   | 878    |
| Parts of Niantic and New London, Conn., GP-879, 1973.....  | 879    |
| <br>Aeroradioactivity of parts of east-central New York and west-central New<br>England, by Peter Popenoe, scale 1:250,000, GP-358, 1964.....  | <br>10 |
| <br>Aeroradioactivity survey and areal geology of parts of east-central<br>New York and west-central New England (ARMS-I), by Peter Popenoe, 39 p.,<br>scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.14, 1964.....<br>(Copies available from 8) | <br>10 |
| <br>Aeroradioactivity and generalized geologic maps of parts of New York,<br>Connecticut, Rhode Island, and Massachusetts, by Peter Popenoe,<br>scale 1:250,000, GP-359, 1966.....   | <br>11 |
| <br>Aeroradioactivity survey and areal geology of parts of southeastern<br>New York and southern New England (ARMS-I), by Peter Popenoe, 31 p.,<br>scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-58.4.6, 1966.....<br>(Copies available from 8)      | <br>11 |
| <br>Preliminary results of aeromagnetic and aeroradioactivity surveys in<br>western Massachusetts, by R. W. Bromery, <u>in</u> Economic geology in Massachu-<br>setts, O. C. Farquhar, ed., Univ. Mass. Graduate School, p. 391-404, 1967. 12 & 13         |        |

MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

Map ref.

|   |             |
|---|-------------|
| Geologic interpretation of aeromagnetic data for New England, by Andrew Griscom and R. W. Bromery, Cha. 32, <u>in</u> Studies of Appalachian Geology: Northern and Maritime, Interscience Publishers, p. 425-436, 1968.....                     | 13 & 14     |
| Bedrock geologic and magnetic maps of the Marlborough Quadrangle, east-central Connecticut, by G. L. Snyder, 2 sheets, scale 1:24,000, (U.S.G.S. Geol. Quad. Map) GQ-791, 1970.....<br>(Magnetic data are a combination of ground and airborne) | 15          |
| Aeromagnetic map of Connecticut, by Isidore Zietz and others, scale 1:125,000, GP-897, 1974.....  | whole state |
| Aeromagnetic map of the Bristol Quadrangle, Bristol, Kent, Newport, and Providence counties, Rhode Island, scale 1:24,000, OF Rept. 76-224, 1976..  | 16          |
| Aeromagnetic map of the Coventry Center Quadrangle, Kent and Providence counties, Rhode Island, scale 1:24,000, OF Rept. 76-225, 1976.....  | 17          |
| Aeromagnetic map of the Crompton Quadrangle, Kent and Providence counties, Rhode Island, scale 1:24,000, OF Rept. 76-226, 1976.....   | 18          |
| Aeromagnetic map of the East Greenwich Quadrangle, Kent, Washington, Providence, and Newport counties, Rhode Island, scale 1:24,000, OF Rept. 76-227, 1976.....   | 19          |
| Aeroradioactivity map of the Amherst, Massachusetts, area, scale 1:24,000, OF Rept. 76-515, 1976.....   | 20          |
| Aeroradioactivity map of an area south of Boston, Massachusetts, scale 1:24,000, OF Rept. 76-516, 1976.....   | 21          |
| Aeroradioactivity map of the Cohasset, Massachusetts, area, scale 1:24,000, OF Rept. 76-517, 1976.....  | 22          |
| Aeroradioactivity map of the Framingham, Massachusetts, area, scale 1:24,000, OF Rept. 76-518, 1976.....  | 23          |
| Aeroradioactivity map of the Hardwick, Massachusetts, area, scale 1:24,000, OF Rept. 76-519, 1976.....  | 24          |
| Aeroradioactivity map of an area south of Newton, Massachusetts, scale 1:24,000, OF Rept. 76-520, 1976.....   | 25          |
| Aeroradioactivity map of the Oakham, Massachusetts, area, scale 1:24,000, OF Rept. 76-521, 1976.....  | 26          |
| Aeroradioactivity map of the Worcester North and Shrewsbury quadrangles, Massacuhsetts, scale 1:24,000, OF Rept. 76-522, 1976.....  | 27          |
| The aeromagnetic expression of bedrock geology between the Clinton-Newbury and Bloody Bluff fault zones, northeastern Massachusetts, by D. C. Alvord and others, U.S.G.S. Jour. Research, v. 4, no. 5, p. 601-604, 1976.....                    | 28          |

# MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

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| Aeromagnetic survey of southeastern New England and the western Gulf of Maine, by Weston Geophysical Research, Inc., 57 p., 4 sheets, scale 1:250,000, Boston Edison Company, Pilgrim Unit 2, Docket No. 50-471, Rept. BE-SG 7604, 1976.....   | 30           |
| Geologic interpretations of an aeromagnetic map of southern New England, by D. S. Harwood and Isidore Zietz, scale 1:250,000, GP-906, 1976(1977)...  | all 3 states |
| Aeromagnetic lineament map of southern New England showing relation of lineaments to bedrock geology, by P. J. Barosh and others, scale 1:250,000, MF-885, 1977.....   | all 3 states |
| Preliminary map showing bedrock geology superposed on aeromagnetic base map of the Worcester region, Massachusetts, Connecticut, and Rhode Island, by P. J. Barosh, 46 p., 2 sheets, scale 1:125,000, OF Rept. 77-131, 1977.....<br>(Copies on file at 1, 6, 7)  | 31           |
| Correlation of aeroradioactivity and geology in southeastern Connecticut and adjacent New York and Rhode Island, by R. Goldsmith, I. Zietz, and H. R. Dixon, Geol. Soc. Am. Bull., v. 88, no. 7, p. 925-934, 1977.....   | 32           |
| Digitized aeromagnetic map of part of the Boston 1° x 2° Quadrangle, Massachusetts, New Hampshire, Connecticut, Rhode Island, and Maine, by R. W. Simpson, J. H. Hassemer, and J. R. Linton, scale 1:125,000, OF Rept. 80-243, 1980.....<br>(Copies on file at 1, 2, 3, 7)   | 33           |
| Aeromagnetic map of Connecticut, Massachusetts, New Hampshire, Rhode Island, Vermont, and part of New York, by Isidore Zietz, F. P. Gilbert, and J. R. Kirby, Jr., scale 1:1,000,000, GP-928, 1980.....  | all 3 states |
| Geological, geophysical, and seismological studies related to the 1755 Cape Ann, Massachusetts earthquake, by R. J. Holt, <u>in</u> Proc. Conf. XLI; a review of earthquake research applications in the National Earthquake Hazards Reduction Program; 1977-1987, W. W. Hays, ed., OF Rept. 88-013A, p. 168-180, 1988.....<br>(Copies on file at 1, 2, 3) | 34           |
| A geophysical study of the northern Hartford Basin and vicinity, Massachusetts, by J. D. Phillips, <u>in</u> Studies of the early Mesozoic basins of the Eastern United States, Bulletin 1776, p. 235-247, 1988.....   | 35           |
| Aeromagnetic imagery with geologic correlations for some early Mesozoic basins of the Eastern United States, by K. R. Bond and J. D. Phillips, <u>in</u> Studies of the early Mesozoic basins of the Eastern United States, Bulletin 1776, p. 253-264, 1988.....   | 36           |

MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

Other publications of interest, not shown on index maps:

Configuration of Precambrian rocks in southeastern New York and adjacent New England from aeromagnetic data, by D. S. Harwood and Isidore Zietz, Geol. Soc. Am. Bull, v. 85, no. 2, p. 181-188, 1974.  
(Covers Mass.-Conn. west of 72°45')

Lineament studies in New England and their tectonic implications, by P. J. Barosh, Utah Geol. Assoc. Pub. no. 5, p. 218-235, 1976.  
(Shows aeromagnetics in northeastern Mass. and southwestern Conn.)

The structural interpretation of aeromagnetic lineaments in northern Rhode Island, by W. C. Schwab and R. K. Frohlich, Internat. Conf. Basement Tectonics, no. 2, p. 86-98, 1979.

Interpretation of aeromagnetic data in southwest Connecticut, and evidence for faulting along the northern Fall Line, by P. J. Barosh, Internat. Conf. Basement Tectonics, no. 2, p. 99-110, 1979.

Same title and author as above, 26 p., U.S. Nuclear Reg. Comm. Rept. NUREG/CR-2128, 1981.

Tectonic development of southern Narragansett Bay and offshore Rhode Island, by R. L. McMaster, J. de Boer, and B. P. Collins, Geology, v. 8, no. 10, p. 496-500, 1980.

Structure of the Clinton-Newbury and Bloody Bluff fault zones in eastern Massachusetts, by S. R. Taylor, in A study of New England seismicity with emphasis on Massachusetts and New Hampshire, M. N. Toksoz, ed., U.S. Nuclear Reg. Comm. Rept. NUREG/CR-1186, p. 67-106, 1980.

Block Island Fault; a Paleozoic crustal boundary on the Long Island Platform, by D. R. Hutchinson, K. D. Klitgord, and R. S. Detrick, Geology, v. 13, no. 12, p. 875-879, 1985.  
(Covers most of the map area east of 73° and south of 42°)

Structural interpretation of magnetic and gravity data of New England--Case histories, by P. J. Barosh, Internat. Conf. Basement Tectonics no. 5, p. 245-257, 1986.

Potential radon hazard in Rhode Island estimated from geophysical and geological surveys, by R. K. Frohlich and C. A. Pearson, Northeast. Environ. Sci., v. 7, no. 1, p. 30-34, 1988.

Magnetic signatures of zones of fractures in igneous metamorphic rocks with an example from southeastern New England, by R. K. Frohlich, Tectonophysics, v. 163, no. 1-2, p. 1-12, 1989.

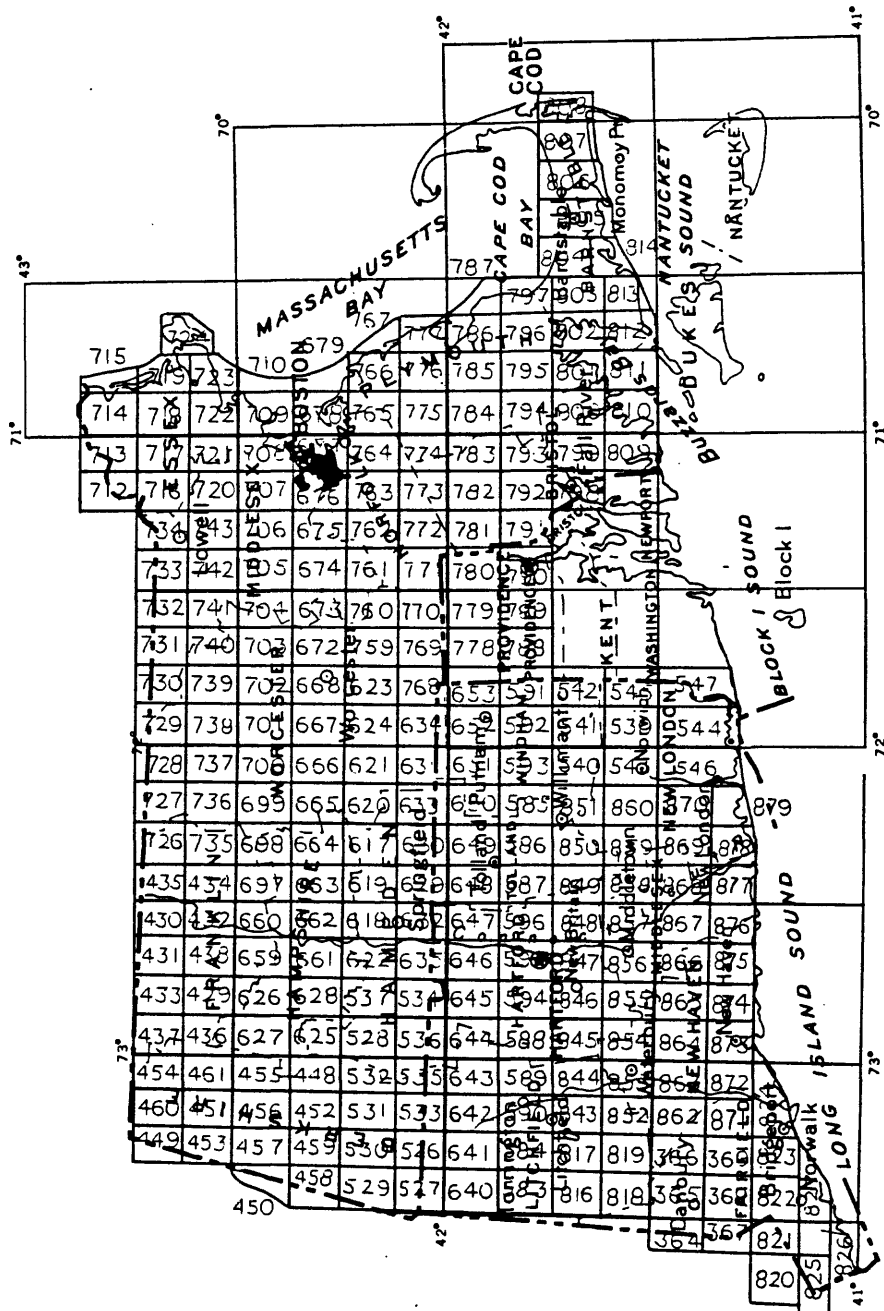
MASSACHUSETTS-CONNECTICUT-RHODE ISLAND AIRBORNE (cont'd)

U.S.G.S. open-file reports for Massachusetts, Connecticut, and Rhode Island are available for viewing at 1, 2, 3, 4, 5, and frequently 6 and 7. Additional locations for viewing reports which overlap into adjacent states are listed in that state's index.

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. 1028, GSA Bldg., 19th and F Sts., NW, Washington, DC 20244
5. U.S.G.S., 150 Causeway St., 13th Floor, Boston, MA 02114
6. Massachusetts Dept. of Public Works, 99 Worcester St., Wellesley Hills, MA 02181
7. Connecticut Dept. Environ. Protection, Nat. Resources Center,  
State Office Bldg., 165 Capitol Ave., Hartford, CT 06115
8. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161

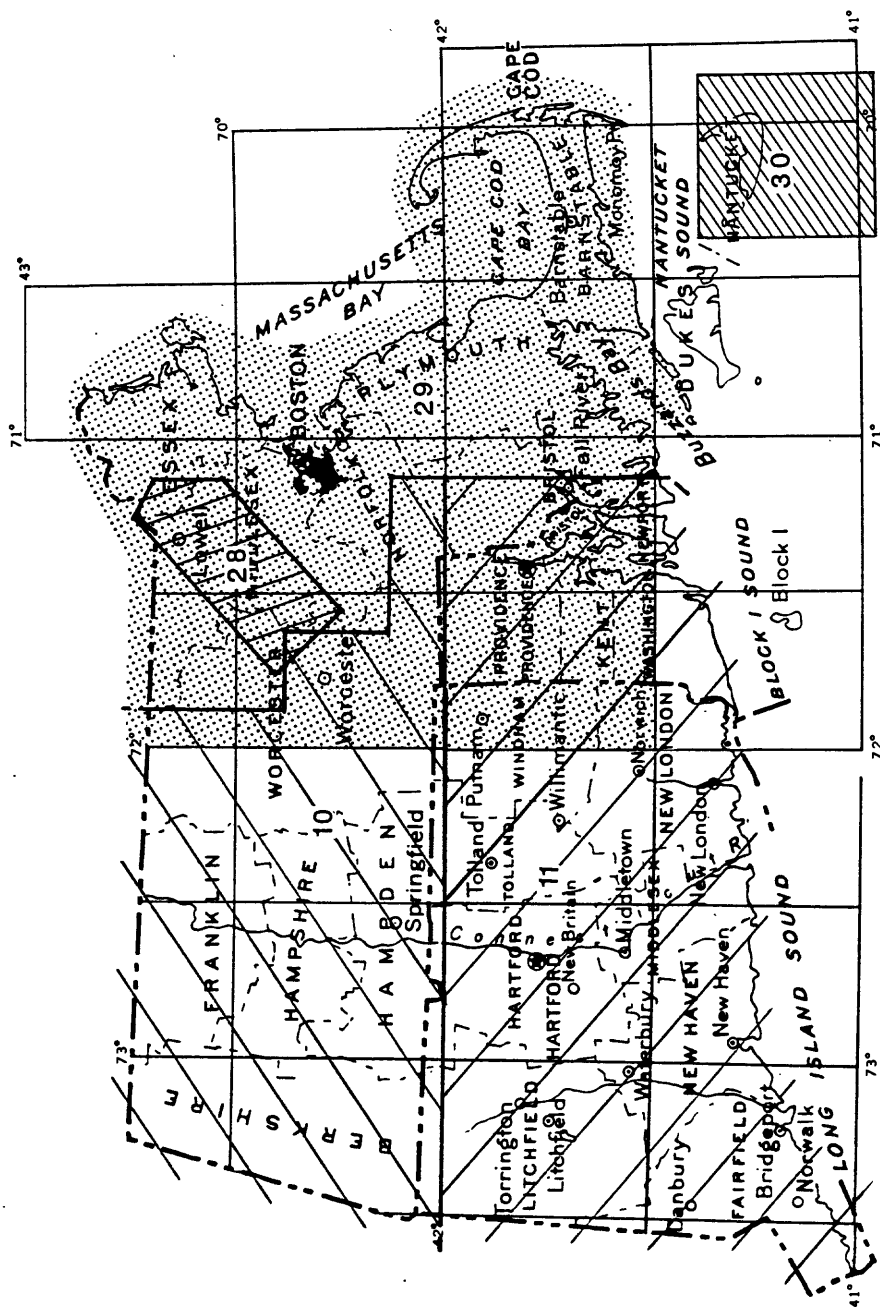
# MASSACHUSETTS, RHODE ISLAND, CONNECTICUT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



# MASSACHUSETTS, RHODE ISLAND, CONNECTICUT

TOPOGRAPHIC DIVISION  
ATLANTIC REGION  
ARLINGTON, VIRGINIA

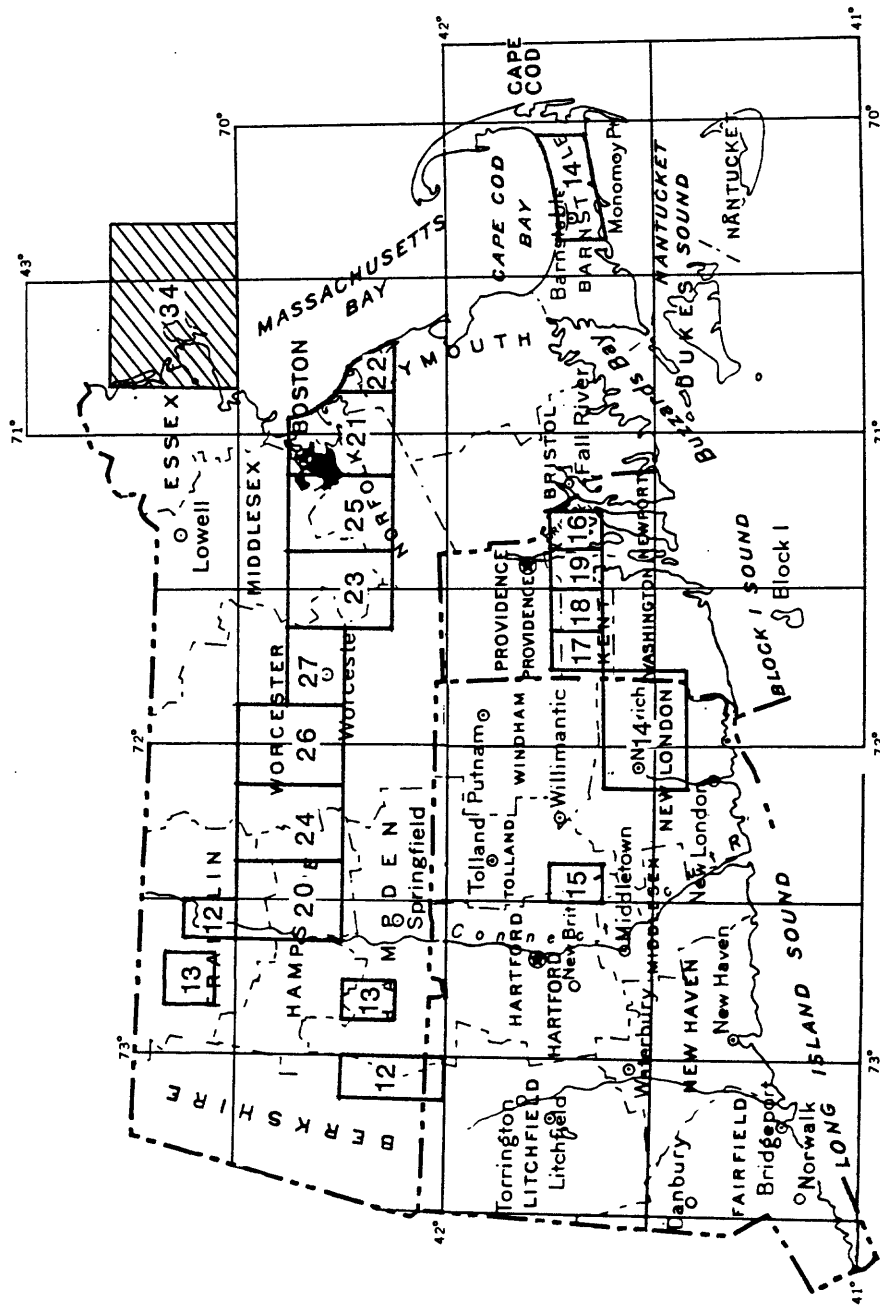


MAP 2



# MASSACHUSETTS, RHODE ISLAND, CONNECTICUT

TOPOGRAPHIC DIVISION  
ATLANTIC REGION  
ARLINGTON, VIRGINIA



MAP 3

This map shows the New England region, including parts of Massachusetts, Rhode Island, and Connecticut. The coastline is clearly defined, with major cities and towns labeled. The map is overlaid with a grid of latitude and longitude lines. Key features include:

- Massachusetts:** Labeled with "MASSACHUSETTS" and "BOSTON". Counties shown include "ESSEX", "MIDDLESEX", "NORFOLK", and "SUFFOLK".
- Rhode Island:** Labeled with "RHODE ISLAND". Counties shown include "PROVIDENCE", "KENT", and "WASHINGTON".
- Connecticut:** Labeled with "CONNECTICUT". Counties shown include "HARTFORD", "MIDDLESEX", and "NEW HAVEN".
- Geographical Features:** "CAPE COD", "BARNSTABLE", "NANTUCKET", "Block I", "ISLAND SOUND", and "LONG ISLAND SOUND" are labeled.
- Grid:** Latitude lines are marked at 41° and 42°. Longitude lines are marked at 71° and 72°.

## MAP 4



# MICHIGAN AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 52 except where noted.)

Map ref.

|   |         |
|---|---------|
| Airborne radioactivity survey of parts of Marquette, Dickinson, and Baraga counties, Michigan, by J. R. Balsley and others, scale approx. 1:125,000, early, unnumbered GP map, 1950.....  | 10      |
| Aeromagnetic survey of part of Dickinson County, Michigan, with preliminary geologic interpretation by K. L. Wier, J. R. Balsley, and W. P. Pratt, scale approx. 1:125,000, GP-115, 1953.....   | 11      |
| Aeromagnetic maps of the following quadrangles are by J. R. Balsley, J. L. Meuschke and Jean Blanchett, scale 1:24,000:   |         |
| Phoenix, GP-313, 1963.....  | 12      |
| Eagle Harbor, GP-314, 1963.....   | 13      |
| Delaware, GP-315, 1963.....   | 14      |
| Lake Medora, GP-316, 1963.....  | 15      |
| Fort Wilkins, GP-317, 1963.....   | 16      |
| Ahmeek, GO-318, 1963.....   | 17      |
| Mohawk, GP-319, 1963.....   | 18      |
| Bruneau Creek, GP-320, 1963.....  | 19      |
| Hancock, GP-321, 1963.....  | 20      |
| Laurium, GP-322, 1963.....  | 21      |
| South Range, GP-323, 1963.....  | 22      |
| Chassell, GP-324, 1963.....   | 23      |
| Results of regional aeromagnetic surveys of eastern upper Michigan, central lower Michigan, and southeastern Illinois, by Robert W. Patenaude, 51 p., Univ. Wisconsin, Geophys. and Polar Research Center Rept. 64-2, 1964.....                       | 24 & 25 |
| (Figs. 3 and 18 are aeromagnetic maps)  |         |
| Aeromagnetic map of parts of Marquette, Dickinson, Baraga, Alger, and Schoolcraft counties, Michigan, and its geologic interpretation, by J. E. Case and J. E. Gair, 3 sheets, scale 1:62,500, GP-467, 1965.....                                      | 26      |
| Aeromagnetic map of parts of Ironwood and Wakefield quadrangles, Gogebic County, Michigan, and Iron and Vilas counties, Wisconsin, by P. W. Philbin and J. L. Vargo, scale 1:62,500, GP-578, 1966.....  | 27      |
| Aeromagnetic map of parts of the Thomaston, Carp River, North Ironwood, and Little Girls Point quadrangles, Gogebic and Ontonagon counties, Michigan, and Iron County, Wisconsin, by P. W. Philbin and J. L. Vargo, scale 1:62,500, GP-579, 1966..... | 28      |

# MICHIGAN AIRBORNE (cont'd)

Map ref.

|  |           |
|--|-----------|
| Geologic structure east and south of the Keweenaw fault on the basis of geophysical evidence, by L. W. Bacon, Am. Geophys. Union Mon. 10, p. 42-55, 1966.....  | 29        |
| Aeromagnetic maps of the following quadrangles or areas are at scale 1:62,500:   |           |
| Pelkie, GP-599, 1967.....  | 30        |
| Perch Lake, GP-600, 1967.....  | 31        |
| Sidnaw, GP-601, 1967.....  | 32        |
| Part of Winona, GP-602, 1967.....  | 33        |
| Part of Beechwood, GP-603, 1967.....   | 34        |
| Kenton, GP-604, 1967.....  | 35        |
| Iron River and vicinity, GP-605, 1967.....   | 36        |
| Rousseau, GP-606, 1967.....  | 37        |
| Crystal Falls and part of Florence, GP-607, 1967.....  | 38        |
| Keweenaw Bay area, GP-608, 1967.....   | 39        |
| Ned Lake and part of Witch Lake, GP-609, 1967.....   | 40        |
| Parts of Ralph and Norway, GP-610, 1967.....   | 41        |
| Sagola and part of Iron Mountain, GP-611, 1967.....  | 42        |
| Aeromagnetic map of the Menominee-Northland area, Dickinson, Marquette, and Menominee counties, Michigan, and Marinette County, Wisconsin, 2 sheets, scale 1:62,500, GP-711, 1970.....                                   | 43        |
| Geologic interpretation of aeromagnetic data in western Upper Peninsula of Michigan, by W. M. Meshref and W. J. Hinze, 25 p., 3 sheets, scale 1:250,000, Michigan Geol. Survey Rept. Invest. 12, 1970.....               | 44        |
| Aeromagnetic map of the western part of the northern peninsula, Michigan, and part of northern Wisconsin, by Isidore Ziétz and J. R. Kirby, scale 1:250,000, GP-750, 1971.....<br>(Covers Upper Michigan west of 86°30') | not shown |
| Gravity and aeromagnetic anomaly maps of the southern peninsula of Michigan, by W. J. Hinze, R. L. Kellogg, and D. W. Merritt, 16 p., 2 sheets, scale 1:1,000,000, Michigan Geol. Survey Rept. Invest. 14, 1971.....     | 45        |
| Geophysical studies of basement geology of southern peninsula of Michigan, by W. J. Hinze, R. L. Kellogg, and N. W. O'Hara, Am. Assoc. Pet. Geol., Bull., v. 59, no. 9, p. 1562-1584, 1975.....                          | 45        |
| A regional geophysical investigation of the Green Bay area, by N. W. O'Hara, Proc., 14th Conf., Great Lakes Research, p. 355-367, 1971.....  | 46        |

# MICHIGAN AIRBORNE (cont'd)

Map ref.

Aeromagnetic maps of the following quadrangles or areas are at scale 1:62,500:

|   |             |
|---|-------------|
| Central Gogebic County, Mich. and Wis., GP-828, 1972.....   | 47          |
| Bergland and part of White Pine, GP-829, 1972.....  | 48          |
| Watersmeet region, Mich. and Wis., GP-831, 1972.....  | 49          |
| Gladstone and vicinity, 4 sheets, GP-833, 1972.....   | 50          |
| Northwestern (actually northeastern) Ontonagon County, GP-834, 1972.....  | 51          |
| Gravity and magnetic evidence for the eastern termination of the Lake Superior syncline, by E. Oray, W. J. Hinze, and N. O'Hara, Geol. Soc. Am. Bull., v. 84, no. 8, p. 2763-2780, 1973.....                                |             |
|   | 52          |
| Regional gravity and magnetic study of southern Lake Michigan - Southern Lake Michigan geophysical study, by N. W. O'Hara, R. J. Wold, and W. J. Hinze, Proc., 16th Conf., Great Lakes Research, p. 431-440, 1973....       |             |
|   | 53          |
| Aerial radiological measuring survey of the area surrounding the Palisades Plant, South Haven, Michigan, July 29, 1970, by EG&G, Inc., 12 p., scale approx. 1:62,500, U.S. Atomic Energy Comm. Rept. ARMS-70.6.8, 1973..... |             |
| (Copies available from 5)   | 54          |
| Aeromagnetic map of Michigan and the adjacent Great Lakes, by Isidore Zietz and others, scale 1:1,000,000, GP-894, 1974.....  |             |
|   | whole state |
| Magnetic map of the Wakefield NE Quadrangle, Gogebic County, Michigan, by W. C. Prinz, scale 1:20,000, OF Rept. 75-389, 1975.....   |             |
| (Map is a combination of ground and airborne magnetics)   | 55          |
| Geologic map and geophysical interpretation of the Witch Lake Quadrangle, Marquette, Iron, and Baraga counties, Michigan, by W. F. Cannon and J. S. Klasner, aeromagnetic map scale 1:62,500, I-987, 1977.....              |             |
|   | 56          |
| Aeromagnetic map of Sault Sainte Marie and vicinity, Michigan, scale 1:250,000, OF Rept. 79-833, 1979.....  |             |
|   | 57          |
| Aeroradioactivity map of Sault Saint Marie and vicinity, Michigan, scale 1:250,000, OF Rept. 79-852, 1979.....  |             |
|   | 57          |
| Aeromagnetic map of the northeastern peninsula of Michigan, 8 sheets, scale 1:62,500, OF Rept. 80-149, 1980.....  |             |
| (Copies on file at 1, 2, 4)   | 57          |
| Mineral resources of the Sturgeon River Wilderness Study Area, Houghton and Baraga counties, Michigan, by W. F. Cannon and others, 49 p., aeromagnetic map scale 1:62,500, Bulletin 1465, 1980.....                         |             |
|   | 58          |
| Aeromagnetic map of the Manistique Lakes area, Michigan, 4 sheets, scale 1:62,500, OF Rept. 80-830, 1980.....   |             |
|   | 59          |

# MICHIGAN AIRBORNE (cont'd)

Map ref.

- Aeroradioactivity map of the Manistique Lakes area, Michigan, 4 sheets,  
scale 1:62,500, OF Rept. 80-831, 1980..... 59
- Aeromagnetic map of the eastern part of the northern peninsula of Michigan,  
by W. F. Cannon and A. E. Fenichel, scale 1:250,000, GP-947, 1982..... 57 & 59
- Bedrock geologic map of the Kenton-Perch Lake area, northern Michigan, by  
W. F. Cannon and J. S. Klasner, scale 1:62,500, I-1290, 1980(1981)..... 60
- Airborne radiometric and magnetic survey of parts of the Upper Peninsula of  
Michigan and northern Wisconsin, 72 p., 46 sheets, scale 1:24,000,  
OF Rept. 83-195-A, 1983..... 61
- Stacked profiles of data from an airborne radiometric and magnetic survey  
of parts of the Upper Peninsula of Michigan and northern Wisconsin, 5 p.,  
230 sheets, OF Rept. 83-195-B, 1983..... 61
- Mineral resources of the Rock River Canyon Wilderness Study Area, Alger  
County, Michigan, by J. W. Whitlow, P. J. Geraci, and P. C. Mory,  
with a section on Geophysical data interpretation, by E. R. King,  
43 p., Bulletin 1549, 1983..... 62
- Aeromagnetic map of the Iron River 1° by 2° Quadrangle, Michigan and  
Wisconsin, by E. R. King, scale 1:250,000, I-1360-F, 1987..... 63
- Regional aerial gamma-ray maps for Illinois and parts of Wisconsin, Iowa,  
Michigan, Indiana, Missouri, and Kentucky, by J. S. Duval and W. J.  
Jones, Missouri Dept. Nat. Resources, Spec. Pub. 4, p. 157-165, 1988..... 64
- Great Lakes publications; not shown on index maps (most include some contours  
over land portions of the adjacent states; locations for the GSA MC maps  
are shown in the U.S. Regional Index):
- Regional aeromagnetic map of western Lake Superior and adjacent parts of  
Minnesota, Michigan, and Wisconsin, by J. R. Kirby and A. J. Petty, scale  
1:250,000, GP-556, 1966.
- Tectonics of the Keweenaw Basin, western Lake Superior Region, by W. S. White,  
23 p., Prof. Paper 524-E, 1966.  
Fig. 4 is a generalized aeromagnetic map)
- Aeromagnetic, gravity, and sub-bottom profiling studies in western Lake Superior,  
by R. J. Wold and N. A. Ostenso, Am. Geophys. Union Mon. 10, p. 66-93, 1966.
- Aeromagnetic studies of eastern Lake Superior, by W. J. Hinze and others, Am.  
Geophys. Union Mon. 10, p. 95-110, 1966.
- Total magnetic intensity map of Lake Superior, by W. J. Hinze and others, Am.  
Geophys. Union Mon. 10, Plate 1, p. 94, 1966.

## MICHIGAN AIRBORNE (cont'd)

### Great Lakes--cont'd:

Basement geology of the Lake Michigan area from aeromagnetic studies, by N. W. O'Hara and W. J. Hinze, Geol. Soc. Am. Bull., v. 83, no. 6, p. 1771-1786, 1972.

Regional basement geology of Lake Huron, by N. W. O'Hara and W. J. Hinze, Geol. Soc. Am. Bull., v. 91, no. 6, p. I 348-I 358, 1980.

Great Lakes region gravity and magnetic map sequence: Lake Superior area, by N. W. O'Hara, 12 p., 2 sheets, scale 1:750,000, Geol. Soc. Am. Map and Chart Series MC-37, 1981.

Great Lakes region gravity and magnetic map sequence: Lake Michigan area, by N. W. O'Hara, 12 p., 2 sheets, scale 1:750,000, Geol. Soc. Am. Map and Chart Series MC-38, 1981.

Great Lakes region gravity and magnetic map sequence: Lake Huron area, by N. W. O'Hara, 12 p., 2 sheets, scale 1:750,000, Geol. Soc. Am. Map and Chart Series MC-39, 1981.

Great Lakes region gravity and magnetic map sequence: Michigan Basin area, by N. W. O'Hara, 12 p., 2 sheets, scale 1:750,000, Geol. Soc. Am. Map and Chart Series MC-40, 1981.

### Other publications of interest; not plotted on index maps:

Aeromagnetic survey of parts of Baraga, Iron, and Houghton counties, Michigan, with preliminary geologic interpretation, by J. R. Balsley, H. L. James, and K. L. Wier, scale 1 inch = 3 miles, early, unnumbered GP map, 1949.  
(Covers refs. 31, 32, 36 and part of 30)

Geology of the Kiernan Quadrangle, Iron County, Michigan, by J. E. Gair and K. L. Wier, 88 p., Bulletin 1044, 1956.  
(Shows aeromagnetic profiles and ground magnetic profiles and contours)

Geology of Central Dickinson County, Michigan, by H. L. James and others, with a section on Aeromagnetic survey, by K. L. Wier, 176 p., Prof. Paper 310, 1961.  
(Shows aeromagnetic profiles and ground magnetic profiles and contours)

Geological interpretation of aeromagnetic profiles, by N. A. Ostenso, Science, v. 147, no. 3661, p. 1052-1055, 1965.

Geology of the Marquette and Sands quadrangles, Marquette County, Michigan, by J. E. Gair and R. E. Thaden, 77 p., Prof. Paper 397, 1968.  
(Pl. 7 shows aeromagnetic profiles)

Bedrock geologic map of the Marenisco-Watersmeet area, Gogebic and Ontonagon counties, Michigan, by C. E. Fritts, scale 1:48,000, I-576, 1969(1970).  
(Aeromagnetic anomalies were used to map some concealed geologic features)

MICHIGAN AIRBORNE (cont'd)

Other publications--cont'd:

Geology of the Florence area, Wisconsin and Michigan, by C. E. Dutton, 54 p., aeromagnetic map scale 1:24,000, Prof. Paper 633, 1971(1972).  
(see Wisconsin Index for location)

A ground investigation of an aeromagnetic anomaly, by D. W. Snider, 18 p., Michigan Geol. Survey Rept. Invest. 16, 1977.  
(Covers part of ref. 41)

Geologic map of the Ned Lake Quadrangle, Iron and Baraga counties, Michigan, by M. P. Foose, scale 1:62,500, I-1284, 1981.  
(Contains gravity and magnetic profiles)

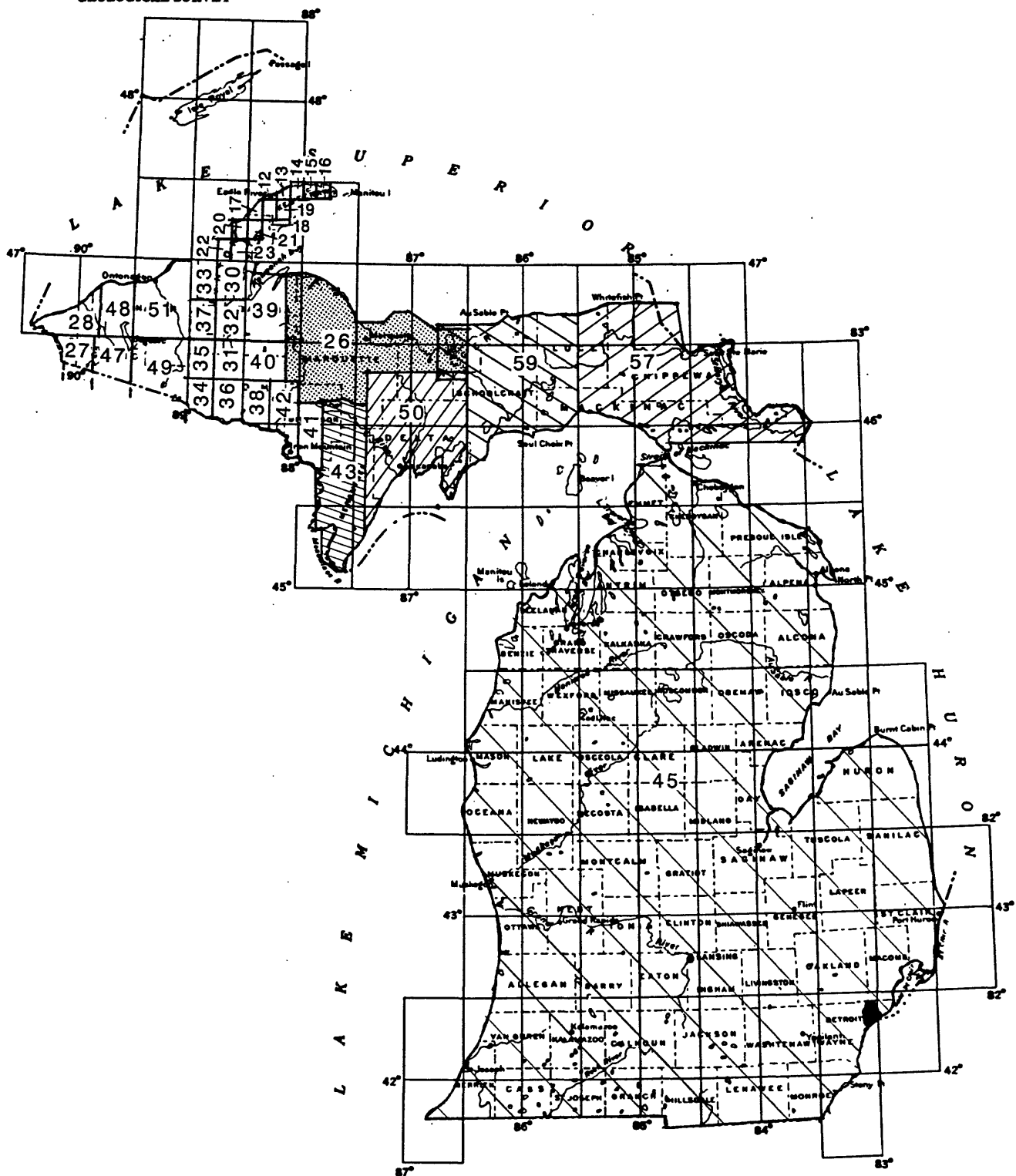
Basal conglomerate and weathered zones in the Marquette Range Supergroup, Northern Peninsula of Michigan; age, indications of atmospheric oxygen, and uranium potential, by W. F. Cannon, Cha. Z, in Prof. Paper 1161 A-BB, p. Z1-Z17, 1981(1982).

Geologic interpretation of gravity and magnetic data for northern Michigan and Wisconsin, by J. S. Klasner, E. R. King, and W. J. Jones, in The utility of regional gravity and magnetic anomaly maps, W. J. Hinze, ed., Soc. Explor. Geophys., p. 267-286, 1985.  
(Covers map south of 47° and west of 87°)

U.S.G.S. open-file reports for Michigan are available for viewing at 1, 2, 3, and occasionally 4. Additional locations for viewing reports which overlap into adjacent states are listed in that state's index.

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. Michigan Dept. Nat. Resources, Geol. Survey Div., P.O. Box 30028, Lansing, MI 48909
5. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161

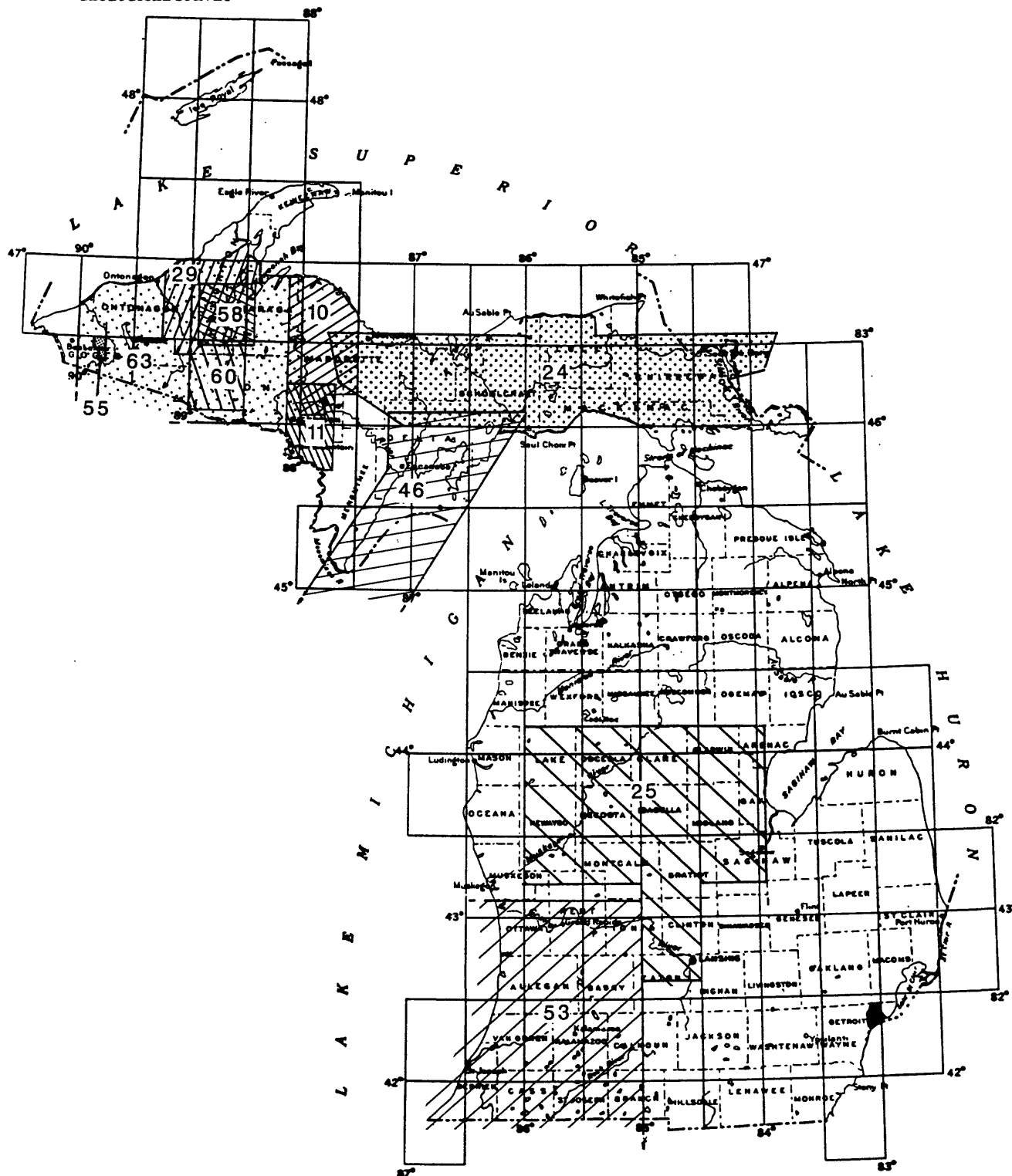
# MICHIGAN



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STATUTE MILES

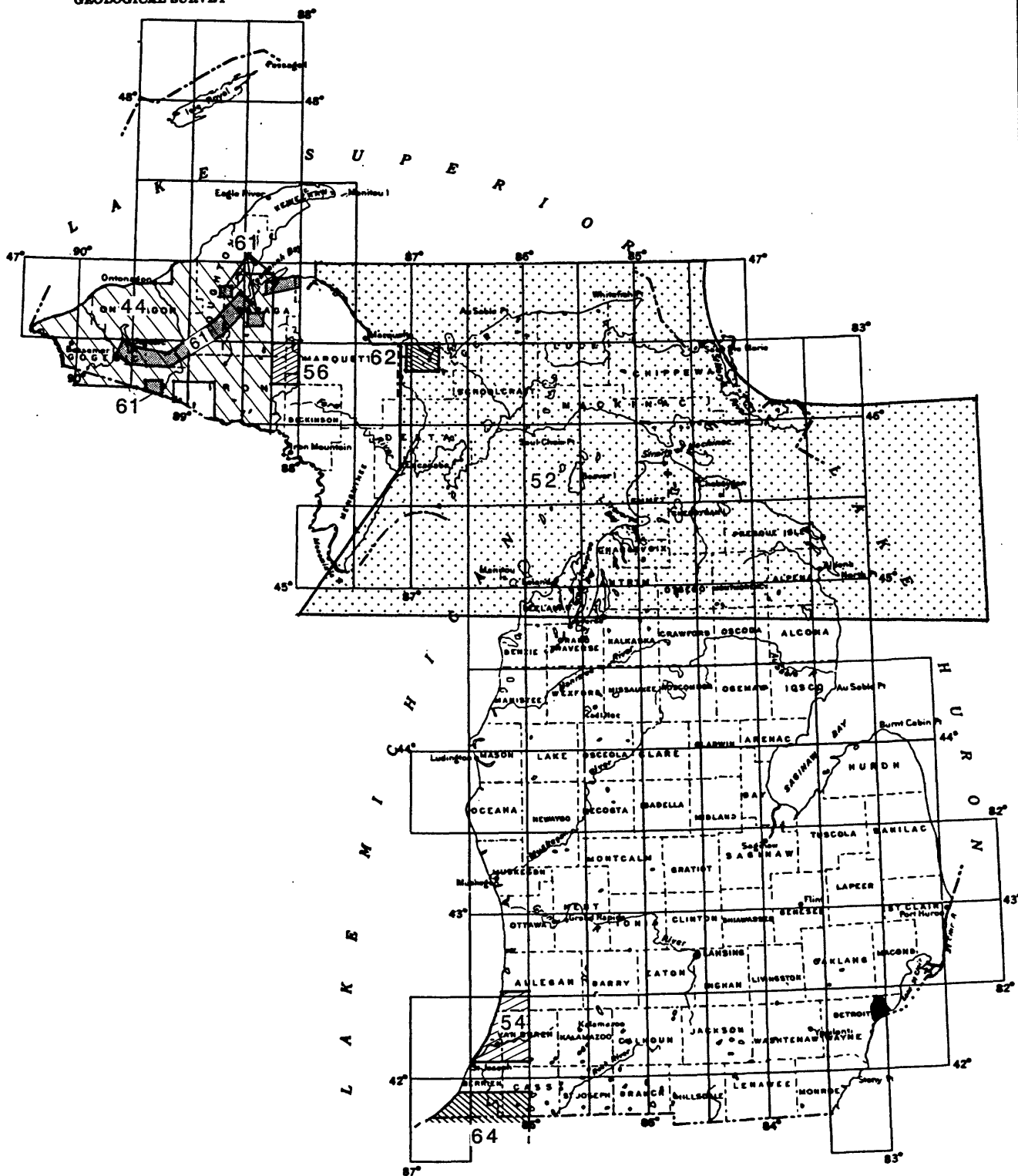
# MICHIGAN



MAP 2



# MICHIGAN



MAP 3



# NEW JERSEY AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 59 except where noted.)

Map ref.

Aeromagnetic maps of the following quadrangles are by J. R. Henderson and others, scale 1:31,680:

|   |    |
|---|----|
| Part of Hamburg, GP-158, 1957.....                                  | 10 |
| Wawayanda and part of Pine Island, N.J. and N.Y., GP-159, 1957..... | 11 |
| Greenwood Lake, N.J. and N.Y., GP-160, 1957.....                    | 12 |
| Newton East, GP-161, 1957.....                                      | 13 |
| Franklin, GP-162, 1957.....   | 14 |
| Newfoundland, GP-163, 1957.....                                     | 15 |
| Wanaque, GP-164, 1957.....  | 16 |
| Stanhope, GP-165, 1957.....   | 17 |
| Dover, GP-166, 1957.....  | 18 |
| Boonton, GP-167, 1957.....  | 19 |
| Pompton Plains, GP-168, 1957.....                                   | 20 |
| Chester, GP-169, 1957.....  | 21 |
| Mendham, GP-170, 1957.....  | 22 |
| Morristown, GP-171, 1957.....                                       | 23 |
| Caldwell, GP-172, 1957.....   | 24 |
| Gladstone, GP-173, 1957.....  | 25 |
| Bernardsville and part of Bound Brook, GP-174, 1958.....            | 26 |
| Chatham and parts of Roselle and Plainfield, GP-175, 1958.....      | 27 |

Aeromagnetic maps of the following quadrangles are by R. W. Bromery and others, scale 1:24,000:

|  |    |
|--|----|
| Parts of Lamberville and Stockton, N.J. and Pa., GP-216, 1959..... | 28 |
| Part of Easton, N.J. and Pa., GP-235, 1960.....                    | 29 |
| Part of Riegelsville, N.J. and Pa., GP-236, 1960.....              | 30 |
| Part of Lumberville, N.J. and Pa., GP-261, 1960.....               | 31 |

Aeromagnetic interpretation of the geology of Greenwood Lake and Sloatsburg quadrangles, New York and New Jersey, by Anna Jespersen and Andrew

Griscom, scale 1:31,680, GP-311, 1963..... 12 & 32

Aeromagnetic maps of the following quadrangles are by J. R. Henderson and others or G. E. Andreasen and others, scale 1:31,680:

|   |    |
|---|----|
| Ramsey, N.J. and N.Y., GP-344, 1962.....        | 33 |
| Parts of Paterson and Orange, GP-345, 1963..... | 34 |

# NEW JERSEY AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--(cont'd):

|  |    |
|--|----|
| Parts of Tranquility and Stanhope, GP-346, 1963..... | 35 |
| Washington and part of Blairstown, GP-347, 1963..... | 36 |
| Hackettstown and part of Chester, GP-348, 1963.....  | 37 |
| High Bridge, GP-349, 1963.....                       | 38 |
| Califon, GP-350, 1963.....                           | 39 |

|   |    |
|---|----|
| (Aeroradioactivity survey) Camden-Delaware Valley area, (ARMS-II), by<br>R. B. Guillou, 20 p., 3 sheets, scale 1:250,000, U.S. Atomic Energy<br>Comm. Rept. CEX-61.6.3, 1963..... | 40 |
| (Copies available from 6)   |    |

## Aeromagnetic maps of the following quadrangles are by P. W. Philbin and J. R. Kirby, scale 1:31,680:

|   |    |
|---|----|
| Parts of Hackensack and Paterson, GP-492, 1964.....                 | 41 |
| Nyack and part of White Plains, N.J. and N.Y., GP-493, 1964.....    | 42 |
| Park Ridge, N.J. and N.Y., GP-494, 1964.....                        | 43 |
| Parts of Yonkers and Mount Vernon, N.J. and N.Y., GP-495, 1964..... | 44 |

|   |    |
|---|----|
| Aeroradioactivity and generalized geologic maps of parts of New York,<br>Connecticut, Rhode Island and Massachusetts, by Peter Popenoe, scale<br>1:250,000, GP-359, 1966..... | 45 |
|---|----|

|   |    |
|---|----|
| Aeroradioactivity survey and aerial geology of parts of southeastern New<br>York and southern New England (ARMS-I), by Peter Popenoe, 31 p., scale<br>1:250,000, U.S. Atomic Energy Comm. Rept. CEX-58.4.6, 1966..... | 45 |
| (Copies available from 6)   |    |

## Aeromagnetic maps and natural gamma aeroradioactivity maps of the following quadrangles are by G. R. Boyton, D. R. Pittillo, and G. L. Zandle, scale 1:24,000, and most extend into Pennsylvania:

|  |    |
|--|----|
| Bangor (mag.), GP-549, 1966.....   | 46 |
| Bangor (rad.), GP-568, 1966.....   | 46 |
| Belvidere (mag.), GP-550, 1966.....  | 47 |
| Belvidere (rad.), GP-569, 1966.....  | 47 |
| Bloomsbury and part of Easton (mag.), GP-551, 1966.....                    | 48 |
| Bloomsbury and part of Easton (rad.), GP-570, 1966.....                    | 48 |
| Frenchtown and part of Riegelsville (mag.), GP-552, 1966.....              | 49 |
| Frenchtown and part of Riegelsville (rad.), GP-571, 1966.....              | 49 |
| Parts of Lambertville, Lumberville, and Stockton (mag.), GP-553, 1966..... | 50 |
| Parts of Lambertville, Lumberville, and Stockton (rad.), GP-572, 1966..... | 50 |

# NEW JERSEY AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--(cont'd):

|  |               |
|--|---------------|
| Pittstown and part of High Bridge (mag.), GP-554, 1966.....  | 51            |
| Pittstown and part of High Bridge (rad.), GP-573, 1966.....  | 51            |
| Aeromagnetic map of northern New Jersey and adjacent parts of New York and Pennsylvania, by J. R. Henderson, G. E. Andreasen, and A. J. Petty, scale 1:125,000, GP-562, 1966.....  | 52            |
| Geological interpretations of aeromagnetic maps of the crystalline rocks in the Appalachians, northern Virginia to New Jersey, by G. W. Fisher, M. W. Higgins, and Isidore Zietz, 43 p., 3 sheets, scale 1:250,000, Maryland Geol. Survey, Rept. Invest. RI-32, 1979.....<br>(Copies available from 5)               | 52            |
| Aeromagnetic map of Delaware, Maryland, Pennsylvania, West Virginia, and parts of New Jersey and New York, (in color), by Isidore Zietz, F. P. Gilbert, and J. R. Kirby, Jr., scale 1:1,000,000, GP-927, 1980.....   | most of state |
| Aeroradioactivity map of parts of Delaware and New Jersey, scale 1:250,000, OF Rept. 79-1646, 1979.....  | 53            |
| Aeromagnetic map of parts of Delaware and New Jersey, scale 1:250,000, OF Rept. 79-1683, 1979.....   | 53            |
| NURE aerial gamma ray and magnetic detail survey: Reading Prong area, by LKB Resources, 6 vols., scale 1:62,500, U.S. Dept. Energy, Grand Junction Office Rept. GJBX-090(80), 1980.....  | 54            |
| Aeromagnetic imagery with geologic correlations for some early Mesozoic basins of the eastern United States, by K. R. Bond and J. D. Phillips, <u>in</u> Studies of the early Mesozoic basins of the eastern United States, Bulletin 1776, p. 253-264, 1988.....<br>(Cover state north of 40°00' and east of 74°30') | not shown     |
| Use of airborne radiometric data to direct testing for elevated indoor radon, by Karl Muessig and Christy Bell, Northeast. Environ. Science v. 7, no. 1, p. 45-51, 1988.....   | whole state   |

## Other publications of interest; not shown on index maps:

- Ground, helicopter and airborne geophysical surveys of Green Pond, N. J., by W. B. Agocs, A.I.M.E., Trans. 1955, v. 202, p. 1129-1136, 1956.
- Recognition of structures from airborne magnetics, by K. N. Isaacs, Am. Assoc. Pet. Geol., Bull., v. 50, no. 7, p. 1502-1506, 1966.

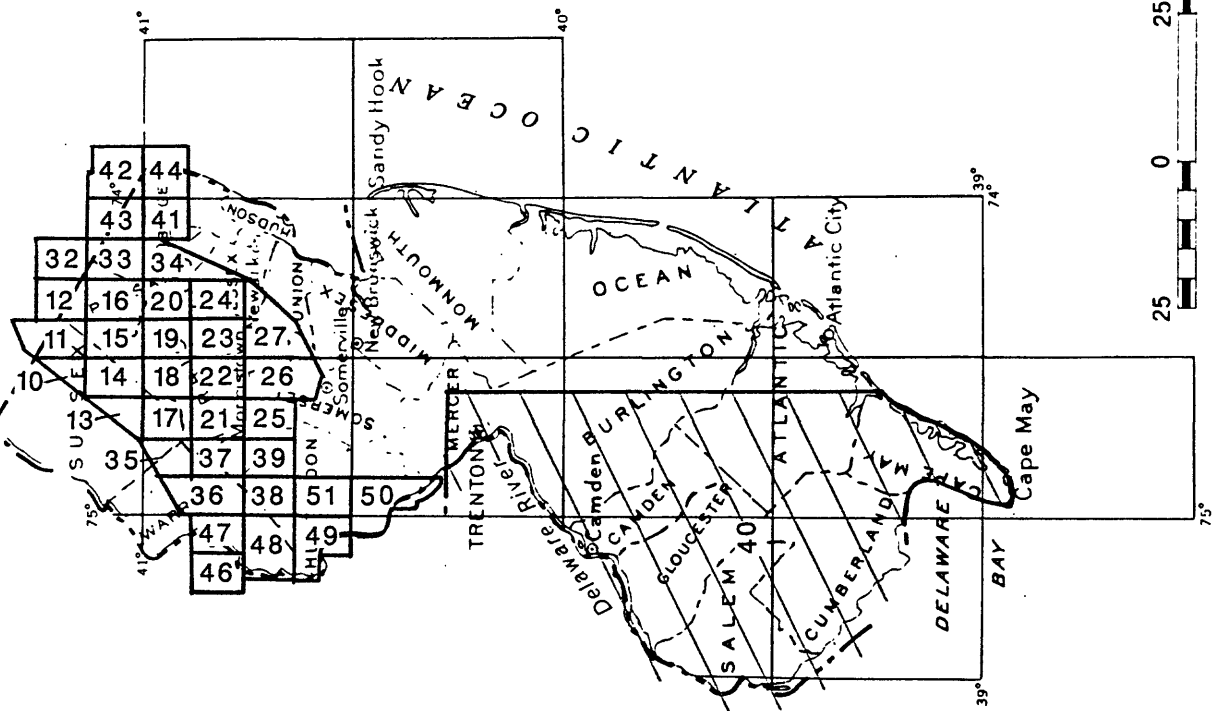
NEW JERSEY AIRBORNE (cont'd)

U.S.G.S. open-file reports for New Jersey are available for viewing at 1, 2, 3, and 4. Additional locations for viewing reports which overlap into adjacent states are listed in that state's index.

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 94125
4. New Jersey Geol. Survey, Div. Water Resources, CN 029, Trenton, NJ 08625
5. Maryland Geol. Survey, 711 W. 40th St., Suite 440, Baltimore, MD 21211
6. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161

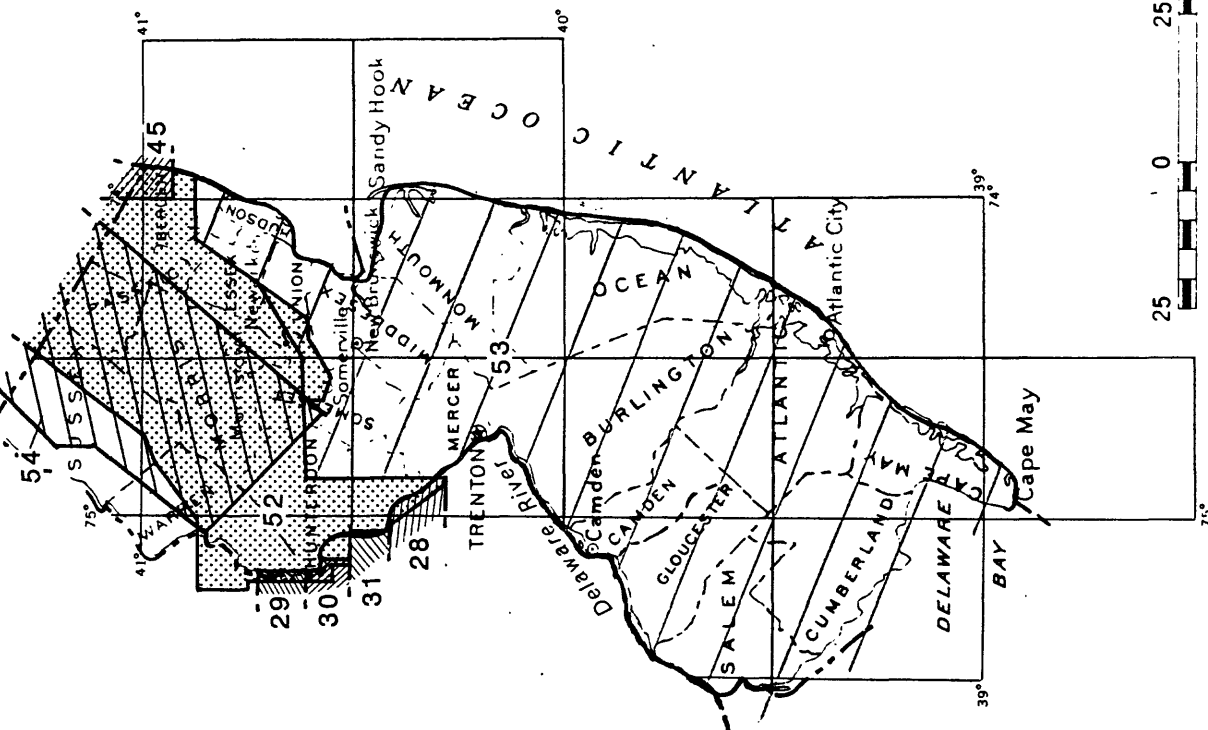
# NEW JERSEY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



# NEW JERSEY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
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MAP 2



# NEW YORK AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 67 except where noted.)

Map ref.

|  |         |
|--|---------|
| Aeromagnetic survey at three levels over Benson Mines, St. Lawrence County, New York, by H. E. Hawkes, Jr., and others, scale 1:31,680, Preliminary Map 2, 1946.....   | 10      |
| The upward continuation of anomalies in total magnetic intensity fields, by R. G. Henderson and Isidore Zietz, Geophysics, v. 14, no. 4, p. 517-535, 1949.....   | 10      |
| Aeromagnetic surveying, by J. R. Balsley, <u>in</u> Advances in Geophysics, v. 1, p. 313-349, N.Y. Academic Press, 1952.....   | 11      |
| Total intensity aeromagnetic and geologic map of Stark, Childwold, and part of Russell quadrangles, New York, by J. R. Balsley and others, scale 1:62,500, GP-117, 1954(1955).....   | 12      |
| Status of aeromagnetic and aeroradioactivity surveys by the U.S. Geological Survey in eastern New York, by R. W. Bromery, Empire State Geogram, v. 5, no. 1, p. 4-7, 1967.....<br>(Fig. 2 is a modified version of GP-117) | 12      |
| Total intensity aeromagnetic and geologic map of Cranberry Lake Quadrangle, New York, by J. R. Balsley and others, scale 1:62,500, GP-118, 1954.....   | 13      |
| Aeromagnetic maps of the following quadrangles are by J. R. Henderson and others, scale 1:31,680:  |         |
| Warwick, GP-157, 1957(1958).....   | 14      |
| Wawayanda and part of Pine Island, GP-159, 1957.....   | 15      |
| Greenwood Lake, GP-160, 1957(1958).....  | 16      |
| Aeromagnetic-geologic maps of the following quadrangles are by J. R. Balsley and others, scale 1:62,500:   |         |
| Santa Clara and part of St. Regis, GP-190, 1959.....   | 17      |
| Loon Lake and part of the Chateaugay, GP-191, 1959.....  | 18      |
| Oswegatchie, GP-192, 1959.....   | 19      |
| Tupper Lake, GP-193, 1959.....   | 20      |
| Aeromagnetic interpretation of the geology of the Greenwood Lake and Slootsburg quadrangles, New York and New Jersey, by Anna Jespersen and Andrew Griscom, scale 1:31,680, GP-311, 1963.....                              | 16 & 21 |
| Aeromagnetic maps of the following quadrangles are by G. E. Andreasen and others unless otherwise noted, scale 1:31,680:   |         |
| Part of Cornwall, GP-337, 1962.....  | 22      |
| West Point, GP-338, 1962.....  | 23      |

# NEW YORK AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--cont'd:

|  |    |
|--|----|
| Parts of Monroe and Maybrook, by J. R. Henderson and others, GP-339, 1962. | 24 |
| Popolopen Lake, GP-340, 1962.....  | 25 |
| Peekskill, GP-341, 1962.....   | 26 |
| Thiells, GP-342, 1962.....   | 27 |
| Part of Haverstraw, GP-343, 1962.....                                      | 28 |
| Ramsey, by J. R. Henderson and others, GP-344, 1962.....                   | 29 |

## Aeromagnetic maps of the following quadrangles are by Peter Popenoe and others, scale 1:24,000:

|  |    |
|--|----|
| Brewster, GP-364, 1962.....                        | 30 |
| Peach Lake, GP-367, 1962.....                      | 31 |
| Berlin, Mass., N.Y., and Vt., GP-449, 1964.....    | 32 |
| Part of Cannan, Mass. and N.Y., GP-450, 1964.....  | 33 |
| Hancock, Mass. and N.Y., GP-453, 1964.....         | 34 |
| Pittsfield West, Mass. and N.Y., GP-457, 1964..... | 35 |
| State Line, Mass. and N.Y., GP-458, 1964.....      | 36 |

## Aeromagnetic maps of the following quadrangles are by P. W. Philbin and J. R. Kirby, scale 1:31,680:

|   |    |
|---|----|
| Nyack and part of White Plains, N.J. and N.Y., GP-493, 1964.....    | 37 |
| Park Ridge, N.J. and N.Y., GP-494, 1964.....                        | 38 |
| Parts of Yonkers and Mount Vernon, N.J. and N.Y., GP-495, 1964..... | 39 |

## Aeroradioactivity of parts of east-central New York and west-central New England, by Peter Popenoe, scale 1:250,000, GP-358, 1964.....

40

## Aeroradioactivity survey and areal geology of parts of east-central New York and west-central New England (ARMS-I), by Peter Popenoe, 39 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.14, 1964..... (Copies available from 6)

40

## Aeromagnetic maps of the following quadrangles are by J. R. Balsley and R. W. Bromery, scale 1:62,500:

|  |    |
|--|----|
| Old Forge and West Canada Lakes, GP-501, 1965.....       | 41 |
| Number Four, GP-502, 1965.....                           | 42 |
| Raquette Lake, GP-503, 1965.....                         | 43 |
| Big Moose, GP-504, 1965.....                             | 44 |
| Parts of Elizabethtown and Port Henry, GP-506, 1965..... | 45 |
| Parts of Paradox Lake and Ticonderoga, GP-507, 1965..... | 46 |

# NEW YORK AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--cont'd:

|  |    |
|--|----|
| Part of Lowville, GP-508, 1965.....  | 47 |
| Parts of Bolton Landing, Glens Falls, and Whitehall, N.Y. and<br>Vt., GP-509, 1965.....  | 48 |
| McKeever and part of Port Leyden, GP-510, 1965.....  | 49 |
| Aeromagnetic map of part of the Bashbish Falls Quadrangle, Massachusetts,<br>Connecticut, and New York, by G. R. Boynton, Peter Popenoe, and<br>G. L. Zandle, scale 1:24,000, GP-527, 1965.....  | 50 |
| Aeromagnetic map of the Egremont Quadrangle and part of the State Line<br>Quadrangle, Berkshire County, Massachusetts, and Columbia County, New<br>York, by G. R. Boynton, Peter Popenoe, and G. L. Zandle, scale 1:24,000,<br>GP-529, 1965.....   | 51 |
| Aeroradioactivity and generalized geologic maps of parts of New York,<br>Connecticut, Rhode Island, and Massachusetts, by Peter Popenoe,<br>scale 1:250,000, GP-359, 1966.....   | 52 |
| Aeroradioactivity survey and areal geology of parts of southeastern New<br>York and southern New England (ARMS-I), by Peter Popenoe, 31 p.,<br>scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-58.4.6, 1966.....<br>(Copies available from 6)  | 52 |
| Aeromagnetic map of northern New Jersey and adjacent parts of New York and<br>Pennsylvania, by J. R. Henderson, G. E. Andreasen, and A. J. Petty,<br>scale 1:125,000, GP-562, 1966.....  | 53 |
| Aeromagnetic map of Delaware, Maryland, Pennsylvania, and parts of New<br>Jersey and New York, by Isidore Zietz, F. P. Gilbert, and J. R. Kirby,<br>scale 1:1,000,000, GP-927, 1980.....   | 53 |
| Geological interpretation of aeromagnetic maps of the crystalline rocks<br>in the Appalachians, northern Virginia to New Jersey, by G. W. Fisher,<br>M. W. Higgins, and Isidore Zietz, 43 p., 3 sheets, scale 1:250,000,<br>Maryland Geol. Survey Rept. Invest. 32, 1979.....<br>(Actual area covered is slightly less than shown) | 53 |
| Gravity anomalies in northwestern New England, by W. H. Diment, Cha. 30,<br><u>in</u> Studies of Appalachian Geology: Northern and Maritime, Interscience<br>Publishers, p. 399-413, 1968.....<br>(Fig. 30.11 is an aeromagnetic map)  | 54 |
| Geologic interpretation of aeromagnetic data for New England, by Andrew<br>Griscom and R. W. Bromery, Cha. 32, <u>in</u> Studies of Appalachian Geology:<br>Northern and Maritime, Interscience Publishers, p. 425-436, 1968.....<br>(Fig. 32.6 is an aeromagnetic-geologic map)   | 55 |

NEW YORK AIRBORNE (cont'd)

Map ref.

Aeromagnetic maps of the following quadrangles are at scale 1:24,000:

|  |             |
|--|-------------|
| Sharon and parts of Ellsworth and Bashbish Falls, N.Y. and Conn., GP-640, 1969.....  | 56          |
| Parts of Ossining and Mt. Kisko, N.Y. and Conn., GP-820, 1971.....   | 57          |
| Pound Ridge, N.Y. and Conn., GP-821, 1971.....   | 58          |
| Norwalk, N.Y. and Conn., GP-822, 1971.....   | 59          |
| Parts of White Plains and Glenville, N.Y. and Conn., GP-825, 1971.....   | 60          |
| Aeromagnetic map of westernmost New York, scale 1:250,000, OF Rept. 75-028, 1975.....  | 61          |
| Aeromagnetic map of Ogdensburg and vicinity, New York, 1 sheet at scale 1:250,000 and 15 sheets at scale 1:62,500, OF Rept. 75-526, 1975.....<br>(Copies on file at 1, 2, 3, 5)  | 62          |
| Aeromagnetic map of parts of the Rochester and Utica 1° by 2° quadrangles, New York, scale 1:250,000, OF Rept. 77-553, 1977.....<br>(Copies on file at 1, 2, 3, 4, 5)  | 63          |
| Correlation of aeroradioactivity and geology in southeastern Connecticut and adjacent New York and Rhode Island, by R. Goldsmith, I. Zietz, and H. R. Dixon, Geol. Soc. Am. Bull., v. 88, no. 7, p. 925-934, 1977..... | 64          |
| Aeromagnetic map of the eastern part of the Adirondacks Mountains, New York, scale 1:250,000, OF Rept. 78-279, 1978.....   | 65          |
| Aeromagnetic map of central New York, scale 1:250,000, OF Rept. 79-653, 1979.....  | 66          |
| Aeromagnetic map of southeastern New York, scale 1:250,000, OF Rept. 79-654, 1979.....   | 67          |
| Aeromagnetic map of northern New York, scale 1:250,000, OF Rept. 79-655, 1979.....   | 68          |
| NURE aerial gamma ray and magnetic detail survey; Reading Prong area, by LKB Resources, 6 vols., scale 1:62,500, U.S. Dept. Energy, Grand Junction Office Rept. GJBX-090(80), 1980.....                                | 69          |
| Aeromagnetic map of New York, by Isidore Zietz and F. P. Gilbert, 5 sheets, scale 1:250,000, GP-938, 1981.....   | whole state |
| Geophysical signature of central and western New York, by D. S. Hodge, R. Eckert, and F. Revetta, New York State Geol. Assoc. Guidebook 54, p. 3-17, 1982.....<br>(Fig. 5 is an aeromagnetic map, scale 1:1,000,000)   | 70          |

- Block Island Fault; a Paleozoic crustal boundary on the Long Island Platform, by D. R. Hutchinson, K. D. Klitgord, and R. S. Detrick, *Geology*, v. 13, no. 12, p. 875-879, 1985..... 71
- Aeromagnetic imagery with geologic correlations for some early Mesozoic basins of the Eastern United States, by K. R. Bond and J. D. Phillips, in *Studies of the early Mesozoic basins of the Eastern United States*, Bulletin 1776, p. 253-264, 1988..... not shown  
(covers state south of 41°30' and west of 73°30')
- Summary results of the Glens Falls CUSMAP project, New York, Vermont, and New Hampshire, by J. F. Slack and others, 279 p., Bulletin 1887, 1990..... not shown  
(The coordinates of Glens Falls are: 70°-72° long., 43°-44° lat.)  
(gridded digital data tapes are available from 7)
- Other publications of interest; not plotted on index maps:
- Iron-titanium oxide minerals, rocks, and aeromagnetic anomalies of the Adirondack area, New York, by J. R. Balsley and A. F. Buddington, *Econ. Geol.*, v. 53, no. 7, p. 777-805, 1958.  
(Covers part of ref. 12 and the area south to 43°45')
- Configuration of Precambrian rocks in southeastern New York and adjacent New England from aeromagnetic data, by D. S. Harwood and Isidore Zietz, *Geol. Soc. Am. Bull.*, v. 85, no. 2, p. 181-188, 1974.  
(Covers New York south of 43° and east of 74°)
- Geologic interpretations of an aeromagnetic map of southern New England, by D. S. Harwood and Isidore Zietz, scale 1:250,000, GP-906, 1976(1977).  
(Covers New York south of 43° and east of 74°)
- Aeromagnetic lineament map of southern New England showing relation of lineaments to bedrock geology, by P. J. Barosh and others, scale 1:250,000, MF-885, 1977.  
(Covers New York south of 43° and east of 74°)
- Interpretation of aeromagnetic data in southwest Connecticut, and evidence for faulting along the northern Fall Line, by P. J. Barosh, *Internat. Conf. Basement Tectonics*, no. 2, p. 99-110, 1979.
- Same title and author as above, 25 p., U.S. Nuclear Reg. Comm. Rept. NUREG/CR-2128, 1981. (Copies available from 6)
- Aeromagnetic map of Connecticut, Massachusetts, New Hampshire, Rhode Island, Vermont, and part of New York, by Isidore Zietz, F. P. Gilbert, and J. R. Kirby, scale 1:1,000,000, GP-928, 1980.  
(Covers New York south of 43° and east of 74°)
- Evaluation of remote-sensing, geological, and geophysical data for south-central New York and northern Pennsylvania, by M. H. Podwysocki and others, 179 p., OF Rept. 82-319, 1982. (Copies on file at 1, 2, 3, 5)

NEW YORK AIRBORNE (cont'd)

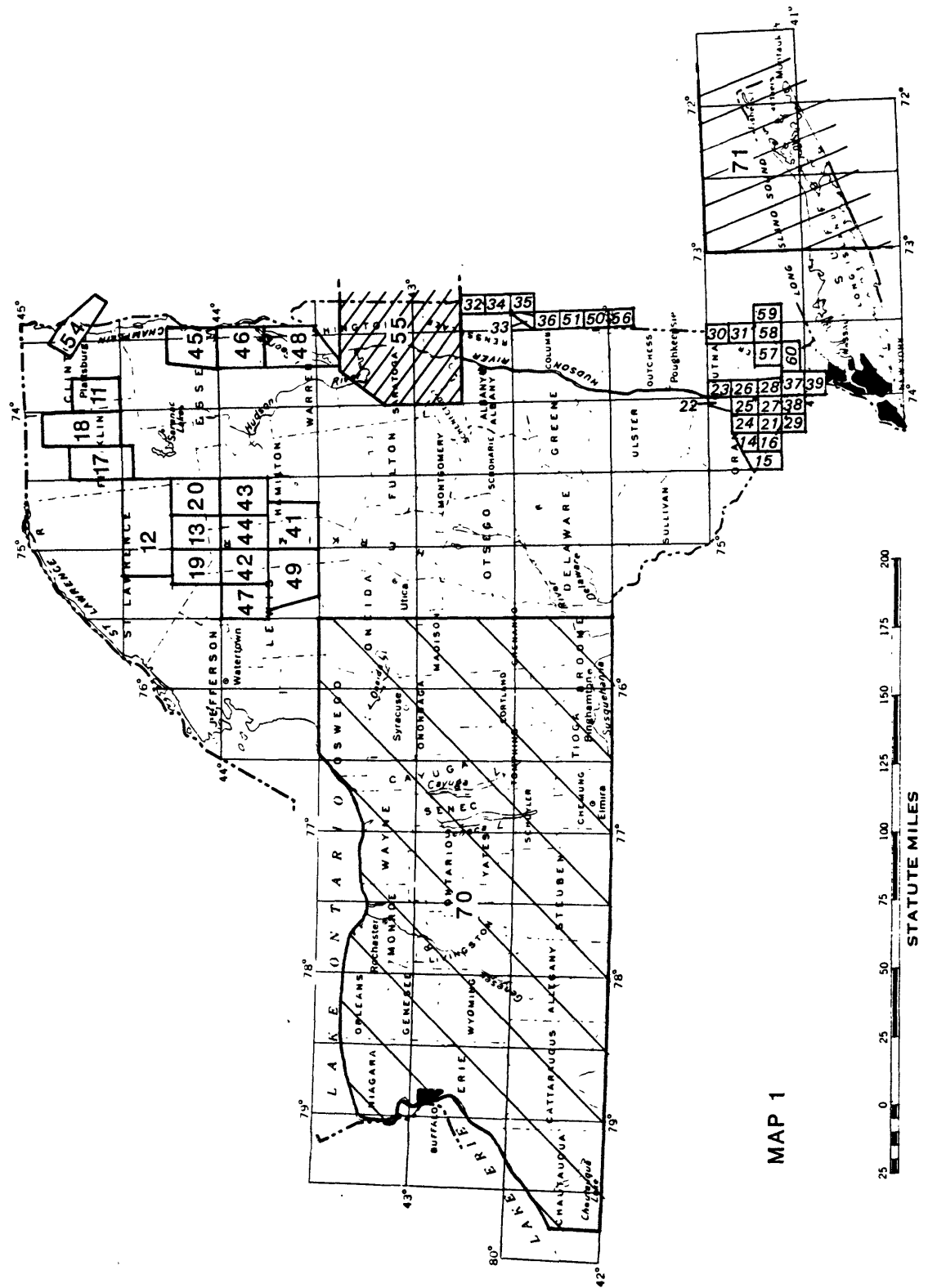
Other publications--cont'd:

Structural interpretation of magnetic and gravity data of New England--Case histories, by P. J. Barosh, Internat. Conf. Basement Tectonics no. 5, p. 245-257, 1986.

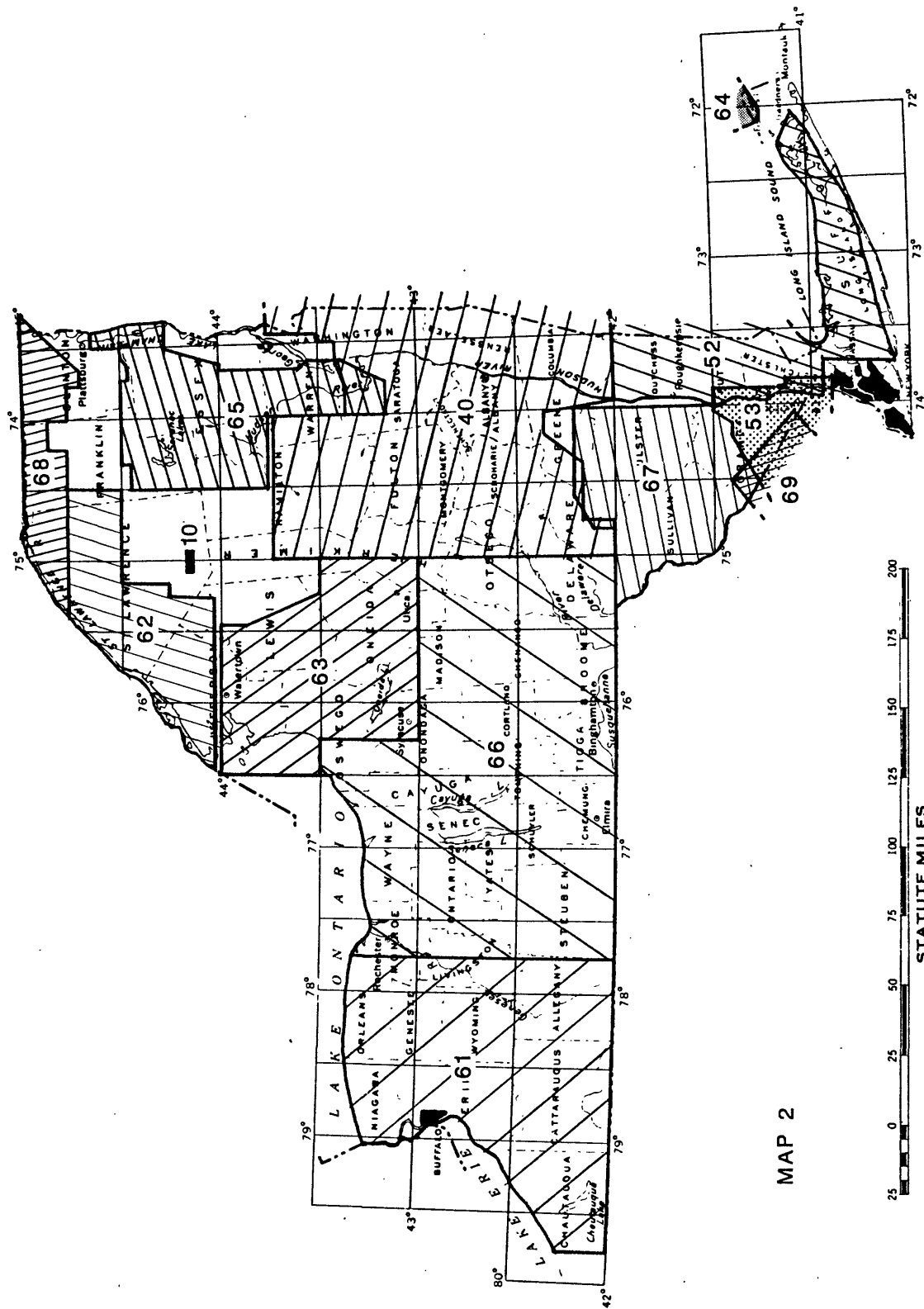
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4. P.I.O., Rm. 1028, GSA Bldg., 19th and F Sts., NW, Washington, DC 20244
5. New York State Museum and Science Service, Geol. Survey, Rm. 3136, N. Y. State Cultural Education Center, Empire State Plaza, Albany, NY 12230
6. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161
7. U.S.G.S., EROS Data Center, User Services, Sioux Falls, SD 57198

# NEW YORK



# NEW YORK



MAP 2

# OHIO AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 71 except where noted.)

Map ref.

|  |    |
|--|----|
| Aeromagnetic map of western Pennsylvania and parts of eastern Ohio, northern West Virginia, and western Maryland, by Peter Popenoe, A. J. Petty, and N. S. Tyson, scale 1:250,000, GP-445, 1964.....   | 10 |
| Interpretation of an aeromagnetic survey in western Pennsylvania and parts of eastern Ohio, northern West Virginia, and western Maryland, by M. E. Beck, Jr., and R. E. Mattick, 10 p., Pennsylvania Topo. and Geol. Survey Info. Circ. 52, 1964.....<br>(This report interprets GP-445) | 10 |
| Natural gamma aeroradioactivity map of the Pittsburgh area, Pennsylvania, Ohio, West Virginia, and Maryland, by R. G. Bates, scale 1:250,000, GP-555, 1966.....  | 10 |
| Aeroradioactivity survey and areal geology of the Pittsburgh area, Pennsylvania, Ohio, West Virginia, and Maryland (ARMS-I), by R. G. Bates, 20 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.12, 1966..<br>(Copies available from 5)                                     | 10 |
| Aeromagnetic map of Findlay, Ohio, and vicinity, by R. W. Bromery and W. E. McCaslin, scale 1:125,000, GP-500, 1965.....   | 11 |
| Aeromagnetic map of the Columbus-Dayton area, Ohio and Indiana, by P. W. Philbin, C. L. Long, and F. C. Moore, scale 1:250,000, GP-491, 1965.....  | 12 |
| Natural gamma aeroradioactivity map of central Ohio and east-central Indiana, by R. G. Bates, scale 1:250,000, GP-524, 1965.....   | 12 |
| Aeroradioactivity survey and areal geology of parts of Ohio and Indiana (ARMS-I), by R. G. Bates, 20 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.23, 1966.....<br>(Copies available from 5)   | 12 |
| Digitized aeromagnetic map of the Columbus-Dayton area, Ohio and Indiana, by J. B. Harlan, R. W. Simpson, and M. F. Kane, scale 1:250,000, OF Rept. 79-928, 1979.....  | 12 |
| Map showing major fold axis, satellite-imagery lineaments, elongate aeroradioactivity anomalies, and lines of structural discontinuity, southwestern Pennsylvania and vicinity, by R. P. Briggs and W. R. Kohl, scale 1:250,000, MF-815, 1976.....                                       | 13 |
| Aeromagnetic map of southeastern Ohio, scale 1:250,000, OF Rept. 80-615, 1980.....<br>(Copies on file at 1, 2, 3, 4)   | 14 |
| Aeromagnetic map of northern Ohio, 2 sheets, scale 1:250,000, OF Rept. 82-191, 1982.....   | 15 |

## OHIO AIRBORNE (cont'd)

Map ref.

|   |                |
|---|----------------|
| Aeromagnetic map of southern Ohio, 2 sheets, scale 1:250,000,<br>OF Rept. 83-059, 1983.....   | 16             |
| Residual total intensity magnetic map of Ohio, by T. G. Hildenbrand and<br>R. P. Kucks, scale 1:500,000, GP-961, 1984.....  | whole<br>state |
| Ohio magnetic data at elevations 1000 ft. above ground and 2000 ft.<br>above sea level in a gridded format, by T. Hidenbrand, R. Kucks, and<br>R. Sweeney, magnetic data tape, NTIS Rept. PB84-125905, 1984.....<br>(Data are gridded at 1 km spacing. Data tape available from 5 and 6.) | whole<br>state |
| Aerial radiometric contour maps of surface concentrations of uranium,<br>potassium, and thorium in Ohio, by J. S. Duval, 3 sheets, scale<br>1:500,000, GP-968, 1985.....  | whole<br>state |
| Geophysical-geological studies of possible extensions of the New Madrid<br>Fault Zone, by W. J. Hinze and others, 42 p., U.S. Nuclear Reg. Comm.<br>Rept. NUREG/CR-3174, vol. 2, 1985.....  | 17             |
| The utility of geopotential field data in seismotectonic studies in the<br>eastern United States, by W. J. Hinze and T. G. Hildenbrand, Seis. Res.<br>Let., v. 59, no. 4, p. 289-297, 1988.....   | 17             |
| Aerial radiometric color contour maps and composite color map of regional<br>surface concentrations of uranium, potassium, and thorium in Ohio, by<br>J. S. Duval, scale 1:1,000,000, GP-966, 1987.....   | whole<br>state |
| Filtered magnetic anomaly maps of Ohio, by T. G. Hildenbrand, scale<br>1:1,000,000, GP-967, 1987.....   | whole<br>state |
| Aeromagnetic and gravity anomaly constraints on the crustal geology of<br>Ohio, by J. E. Lucius and R. B. von Frese, Geol. Soc. Am. Bull., v. 100,<br>no. 1, p. 104-116, 1988.....  | whole<br>state |

U.S.G.S. open-file reports for Ohio are available for viewing at 1, 2, and 3.  
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are listed in that state's index.

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Stop 914, Denver, CO 80225
3. U.S.G.S. Library, 345 Middlefield Rd., Menlo Park, CA 94025
4. Ohio Div. Geol. Survey, Fountain Square, Bldg. B, Columbus, OH 43224
5. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161
6. U.S.G.S., EROS Data Center, User Services, Sioux Falls, SD 57198



# PENNSYLVANIA AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 79 except where noted.)

Map ref.

|   |    |
|---|----|
| Geologic implications of aeromagnetic survey of Clearfield-Philipsburg area, Pennsylvania, by H. R. Joesting, Fred Keller, Jr., and Elizabeth King, Am. Assoc. Pet. Geol. Bull., v. 33, no. 10, p. 1747-1766, 1949.....   | 10 |
| Airborne magnetometer survey in central Pennsylvania, by S. J. Pirson and L. O. Bacon, <u>in</u> Pennsylvania State College, Mineral Industries Experiment Station Bull. 48, p. 55-65, 1947(1948).....  | 10 |
| The computation of second vertical derivatives of geomagnetic fields, by R. G. Henderson and Isidore Zietz, Geophysics, v. 14, no. 4, p. 508-534, 1949.....   | 10 |
| Interpretation of aeromagnetic maps, by Victor Vacquier and others, 151 p., Geol. Soc. Am. Memoir 47, 1951 (reprinted 1963).....<br>(Pls. 3-5 are based on the Clearfield-Philipsburg survey)   | 10 |
| Stratigraphy and structure in the Ridge and Valley area from University Park to Tyrone, Mount Union and Lewistown, Field Trip No. 2 itinerary, by R. M. Swartz, from Guidebook, 21st Ann. Field Conf. Pennsylvania Geologists, University Park, PA, 1955; reissued with appendices, 1966.....<br>(Appendix 2 contains an aeromagnetic map, scale 1:375,000) | 10 |
| Aeromagnetic map of the Allentown Quadrangle, Northhampton, Lehigh, and Bucks counties, Pennsylvania, by R. W. Bromery and others, scale 1:24,000, GP-213, 1959.....  | 11 |
| Preliminary interpretation of aeromagnetic data in the Allentown Quadrangle, Pennsylvania, by R. W. Bromery, <u>in</u> Prof. Paper 400-B, p. 178-180, 1960....  | 11 |
| Preliminary interpretation of aeromagnetic data in the Allentown Quadrangle, by R. W. Bromery, <u>in</u> Pennsylvania Geologists 26th Field Conf. Guidebook, Lehigh Univ., Dept. Geol., p. 37-40, 1961.....   | 11 |
| Aeromagnetic maps of the following quadrangles are by R. W. Bromery and others, scale 1:24,000:   |    |
| Valley Forge, GP-200, 1959.....   | 12 |
| Part of Norristown, GP-201, 1959.....   | 13 |
| Malvern, GP-202, 1959.....  | 14 |
| Part of West Chester, GP-203, 1959.....   | 15 |
| Part of Media, GP-204, 1959.....  | 16 |
| East Greenville, GP-205, 1959.....  | 17 |
| Milford Square, GP-206, 1959.....   | 18 |
| Sassamansville, GP-207, 1959.....   | 19 |

PENNSYLVANIA AIRBORNE (cont'd)

Map ref.

Aeromagnetic maps--(cont'd):

|   |    |
|---|----|
| Perkiomenville, GP-208, 1959.....                                   | 20 |
| Phoenixville, GP-209, 1959.....                                     | 21 |
| Collegeville, GP-210, 1960.....                                     | 22 |
| Quakertown, GP-214, 1959.....                                       | 23 |
| Buckingham, GP-215, 1959.....                                       | 24 |
| Parts of Lambertville and Stockton, Pa. and N.J., GP-216, 1959..... | 25 |
| Safe Harbor, GP-217, 1959.....                                      | 26 |
| Conestoga, GP-218, 1959.....  | 27 |
| Quarryville, GP-219, 1959.....                                      | 28 |
| Morgantown, GP-220, 1959.....                                       | 29 |
| Elverson, GP-221, 1959.....   | 30 |
| Pottstown, GP-222, 1960.....  | 31 |
| Wagontown, GP-223, 1960.....  | 32 |
| Downington, GP-224, 1960.....                                       | 33 |
| Part of Coatesville, GP-225, 1960.....                              | 34 |
| Part of Unionville, GP-226, 1960.....                               | 35 |
| Temple, GP-227, 1960.....   | 36 |
| Fleetwood, GP-228, 1960.....  | 37 |
| Manatawny, GP-229, 1960.....  | 38 |
| Reading, GP-230, 1960.....  | 39 |
| Birdsboro, GP-231, 1960.....  | 40 |
| Boyertown, GP-232, 1960.....  | 41 |
| Honey Brook, GP-233, 1960.....                                      | 42 |
| Parkesburg, GP-234, 1960.....                                       | 43 |
| Part of Easton, Pa. and N.J., GP-235, 1960.....                     | 44 |
| Part of Riegelsville, Pa. and N.J., GP-236, 1960.....               | 45 |
| Part of Hatboro, GP-237, 1960.....                                  | 46 |
| Langhorne, GP-238, 1960.....  | 47 |
| Womelsdorf, GP-239, 1961.....                                       | 48 |
| Sinking Spring, GP-240, 1961.....                                   | 49 |
| Ephrata, GP-241, 1961.....  | 50 |
| Terre Hill, GP-242, 1961.....                                       | 51 |
| Leola, GP-243, 1961.....  | 52 |

# PENNSYLVANIA (cont'd)

Map ref.

## Aeromagnetic maps--(cont'd):

|   |    |
|---|----|
| New Holland, GP-244, 1961.....                                    | 53 |
| Gap, GP-245, 1961.....  | 54 |
| Lebanon, GP-254, 1961.....  | 55 |
| Richland, GP-255, 1961.....                                       | 56 |
| Manheim, GP-256, 1961.....  | 57 |
| Lititz, GP-257, 1961.....   | 58 |
| Columbia East, GP-258, 1961.....                                  | 59 |
| Lancaster, GP-259, 1961.....                                      | 60 |
| Bedminster, GP-260, 1961.....                                     | 61 |
| Part of Lumberville, GP-261, 1960.....                            | 62 |
| Telford, GP-262, 1960.....  | 63 |
| Part of Doylestown, GP-263, 1960.....                             | 64 |
| Lansdale, GP-264, 1960.....                                       | 65 |
| Part of Ambler, GP-265, 1960.....                                 | 66 |
| Part of Alburtis, GP-266, 1961.....                               | 67 |
| Part of Hummelstown, GP-267, 1961.....                            | 68 |
| Part of Palmyra, GP-268, 1961.....                                | 69 |
| Middletown, GP-269, 1961.....                                     | 70 |
| York, GP-270, 1961.....   | 71 |
| Red Lion, GP-271, 1961.....                                       | 72 |
| Glen Rock and part of New Freedom, GP-272, 1961.....              | 73 |
| Part of Bernville, GP-273, 1961.....                              | 74 |
| Part of Mechanicsburg, GP-274, 1961.....                          | 75 |
| New Cumberland, GP-275, 1961.....                                 | 76 |
| Part of Mount Holly Springs, GP-276, 1961.....                    | 77 |
| Part of Dillsburg, GP-277, 1961.....                              | 78 |
| Part of Arendtsville, GP-278, 1961.....                           | 79 |
| Biglerville, GP-279, 1961.....                                    | 80 |
| Hampton, GP-280, 1961.....  | 81 |
| Abbottstown, GP-281, 1961.....                                    | 82 |
| West York, GP-282, 1961.....                                      | 83 |
| Parts of Fairfield and Emmitsburg, Pa. and Md., GP-283, 1961..... | 84 |
| Gettysburg and part of Taneytown, GP-284, 1961.....               | 85 |
| McSherrystown and part of Littleton, GP-285, 1961.....            | 86 |

# PENNSYLVANIA AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--(cont'd):

|  |    |
|--|----|
| Hanover and part of Manchester, GP-286, 1961.....  | 87 |
| Seven Valleys and part of Lineboro, GP-287, 1961.....  | 88 |
| Aeromagnetic map of the Wilmington, Delaware, area and adjacent parts of Pennsylvania and Maryland, by John Henderson and others, scale 1:62,500, GP-363, 1963.....  | 89 |
| Aeromagnetic discovery of a Baltimore gneiss dome in the piedmont of northwestern Delaware and southeastern Pennsylvania, by M. W. Higgins, G. W. Fisher, and Isidore Zietz, Geology, v. 1, no. 1, p. 41-43, 1973.....   | 89 |
| Lineament studies in structural interpretation of a stabilized orogenic region: Appalachian Piedmont, Delaware and adjacent Pennsylvania, by A. M. Thompson and G. M. Hager, Internat. Conf. Basement Tectonics, no. 2, p. 74-85, 1979.....                                    | 89 |
| (Aeroradioactivity survey) Camden-Delaware Valley area (ARMS-II), by R. B. Guillou. 20 p., 3 sheets, scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-61.6.3, 1963.....<br>(Copies available from 5)  | 90 |
| Aeromagnetic map of western Pennsylvania and parts of eastern Ohio, northern West Virginia, and western Maryland, by Peter Popenoe and others, scale 1:250,000, GP-445, 1964.....  | 91 |
| Interpretation of an aeromagnetic survey in western Pennsylvania and parts of eastern Ohio, northern West Virginia, and western Maryland, by M. E. Beck, Jr., and R. E. Mattick, Pennsylvania Topo. and Geol. Survey Rept. IC 52, 1964.....<br>(This report interprets GP-445) | 91 |
| Natural gamma aeroradioactivity map of the Pittsburgh area, Pennsylvania, Ohio, West Virginia, and Maryland, by R. C. Bates, scale 1:250,000, GP-555, 1966.....  | 91 |
| Aeroradioactivity survey and areal geology of the Pittsburgh area, Pennsylvania, Ohio, West Virginia, and Maryland (ARMS-I), by R. G. Bates, 20 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.12, 1966..<br>(Copies available from 5)                           | 91 |
| Aeromagnetic maps and natural gamma aeroradioactivity maps of the following quadrangles are by G. R. Boyton, and others, and each map extends into New Jersey, scale 1:24,000:   |    |
| Bangor (mag.), GP-549, 1966.....   | 92 |
| Bangor (rad.), GP-568, 1966.....   | 92 |

# PENNSYLVANIA AIRBORNE (cont'd)

Map ref.

## Aeromagnetic maps--cont'd:

|   |     |
|---|-----|
| Belvidere (mag.), GP-550, 1966.....   | 93  |
| Belvidere (rad.), GP-569, 1966.....   | 93  |
| Bloomsbury and part of Easton (mag.), GP-551, 1966.....   | 94  |
| Bloomsbury and part of Easton (rad.), GP-570, 1966.....   | 94  |
| Frenchtown and part of Riegelsville (mag.), GP-552, 1966.....   | 95  |
| Frenchtown and part of Riegelsville (rad.), GP-571, 1966.....   | 95  |
| Parts of Lambertville, Lumberville, and Stockton (mag.), GP-553, 1966.....  | 96  |
| Parts of Lambertville, Lumberville, and Stockton (rad.), GP-572, 1966.....  | 96  |
| Aeromagnetic map of northern New Jersey and adjacent parts of New York and Pennsylvania, by J. R. Henderson, G. E. Andreasen, and A. J. Petty, scale 1:125,000, GP-562, 1966..... | 97  |
| Aeromagnetic and generalized geologic map of southeastern Pennsylvania, by R. W. Bromery and Andrew Griscom, 2 sheets, scale 1:125,000, GP-577, 1967.....                         | 98  |
| Geological interpretation of aeromagnetic maps of southeastern Pennsylvania, by A. A. Socolow, 85 p., Pennsylvania Topo. and Geol. Survey Info. Circ. IC-77, 1974.....            | 98  |
| (Interprets GP-577)   |     |
| Aeromagnetic character and anomalies of the Gettysburg Basin vicinity, Pennsylvania: A preliminary appraisal, by J. D. Phillips, Circular 946, p. 133-135, 1985.....              | 98  |
| (Actual area covered is somewhat smaller than shown)  |     |
| Aeromagnetic map of the Harrisburg-Scranton area, northeastern Pennsylvania, scale 1:250,000, GP-669, 1969.....   | 99  |
| Aeromagnetic map of Cumberland and vicinity, Maryland and adjacent states, scale 1:250,000, GP-842, 1972.....   | 100 |
| Aeromagnetic map of northern Frederick County, Maryland, and parts of adjacent counties in Maryland and Pennsylvania, scale 1:62,500, OF Rept. 73-291, 1973.....                  | 101 |
| (Copies on file at 1, 2, 3)   |     |
| Aeromagnetic map of parts of the Cleveland and Erie 1° by 2° quadrangles, Pennsylvania, scale 1:250,000, OF Rept. 74-012, 1974.....   | 102 |
| Aeromagnetic map of parts of the Harrisburg and Baltimore 1° by 2° quadrangles, Pennsylvania, scale 1:250,000, OF Rept. 74-013, 1974.....   | 103 |
| Aeromagnetic map of parts of the Pittsburgh and Cumberland 1° by 2° quadrangles, Pennsylvania, scale 1:250,000, OF Rept. 74-014, 1974.....  | 104 |

PENNSYLVANIA AIRBORNE (cont'd)

Map ref.

|  |                              |
|--|------------------------------|
| Aeromagnetic map of parts of the Scranton and Newark 1° by 2° quadrangles, Pennsylvania, scale 1:250,000, OF Rept. 74-015, 1974.....   | 105                          |
| Aeromagnetic map of parts of the Warren and Buffalo 1° by 2° quadrangles, Pennsylvania, scale 1:250,000, OF Rept. 74-016, 1974.....  | 106                          |
| Aeromagnetic map of part of the Williamsport 1° by 2° Quadrangle, Pennsylvania, scale 1:250,000, OF Rept. 74-017, 1974.....  | 107                          |
| Aeromagnetic map of Philadelphia and vicinity, Pennsylvania, scale 1:62,500, OF Rept. 74-370, 1974.....  | 108                          |
| Airborne radioactivity survey of parts of Carbon, Schuylkill, and Monroe counties, Pennsylvania, by H. Klemic and M. C. Cooper, scale 1:24,000, OF Rept. 75-091, 1975.....<br>(Copies on file at 1, 2)   | 109                          |
| Map showing major fold axis, satellite-imagery lineaments, elongate aeroradioactivity anomalies, and lines of structural discontinuity, southwestern Pennsylvania and vicinity, by R. P. Briggs and W. R. Kohl, scale 1:250,000, MF-815, 1976.....                       | 110                          |
| Aeromagnetic map of Pennsylvania, 2 sheets, scale 1:250,000, GP-924, 1978.....   | whole state                  |
| Geological interpretations of aeromagnetic maps of the crystalline rocks in the Appalachians, northern Virginia to New Jersey, by G. W. Fisher, M. W. Higgins, and Isidore Zietz, 43 p., 3 sheets, scale 1:250,000, Maryland Geol. Survey Rept. Invest. RI-32, 1979..... | 89, 97,<br>98, 108,<br>& 111 |
| Aeromagnetic map of Delaware, Maryland, Pennsylvania, West Virginia, and parts of New Jersey and New York, by Isidore Zietz, F. P. Gilbert, and J. R. Kirby, Jr., scale 1:1,000,000, GP-927, 1980.....   | whole state                  |

Other publications of interest; not shown on index maps:

Geologic investigations of the Boyerton magnetic deposits in Pennsylvania, by H. E. Hawkes, H. Wedow, and J. R. Balsley, 15 p., Bulletin 995-D, 1953.  
(Pl. 20 contains 5 aeromagnetic profiles)

Geophysical and geological interpretation of the Triassic structure in eastern Pennsylvania, by Isidore Zietz and Carlyle Gray, in Prof. Paper 400-B, p. 174-178, 1960.  
(Fig. 78.1 is an aeromagnetic map of the Buckingham Mountain area)

Recognition of structures from airborne magnetics, by K. N. Isaacs, Am. Assoc. Pet. Geol. Bull., v. 50, no. 7, p. 1502-1506, 1966.  
(Contains an aeromagnetic map of eastern Pennsylvania)

PENNSYLVANIA AIRBORNE (cont'd)

Other publications--cont'd:

Evaluation of remote-sensing, geological, and geophysical data for south-central New York and northern Pennsylvania, by M. H. Podwysocki and others, 179 p., OF Rept. 82-319, 1982.

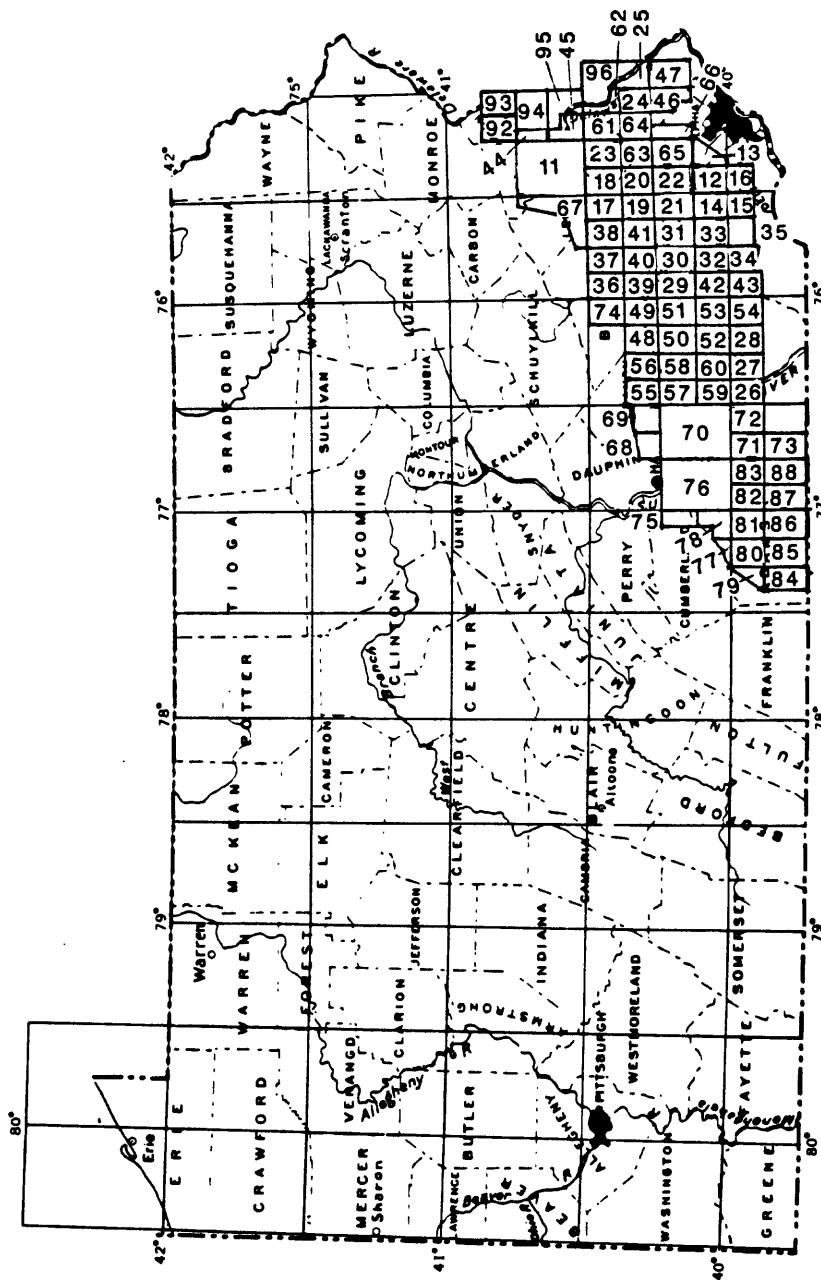
The geology of the Honey Brook Upland, southeastern Pennsylvania, by W. A. Crawford and A. L. Hoersch, Geol. Soc. Am. Spec. Paper 194, p. 111-125, 1984. (Covers parts of refs. 32 and 33)

U.S.G.S. open-file reports for Pennsylvania are available for viewing at 1, 2, 3, and 4. Additional locations for viewing reports which overlap into adjacent states are listed in that state's index.

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. Pennsylvania Bur. of Topo. and Geol. Survey, Dept. of Environmental Resources, P.O. Box 2357, Harrisburg, PA 17120
5. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161

# PENNSYLVANIA

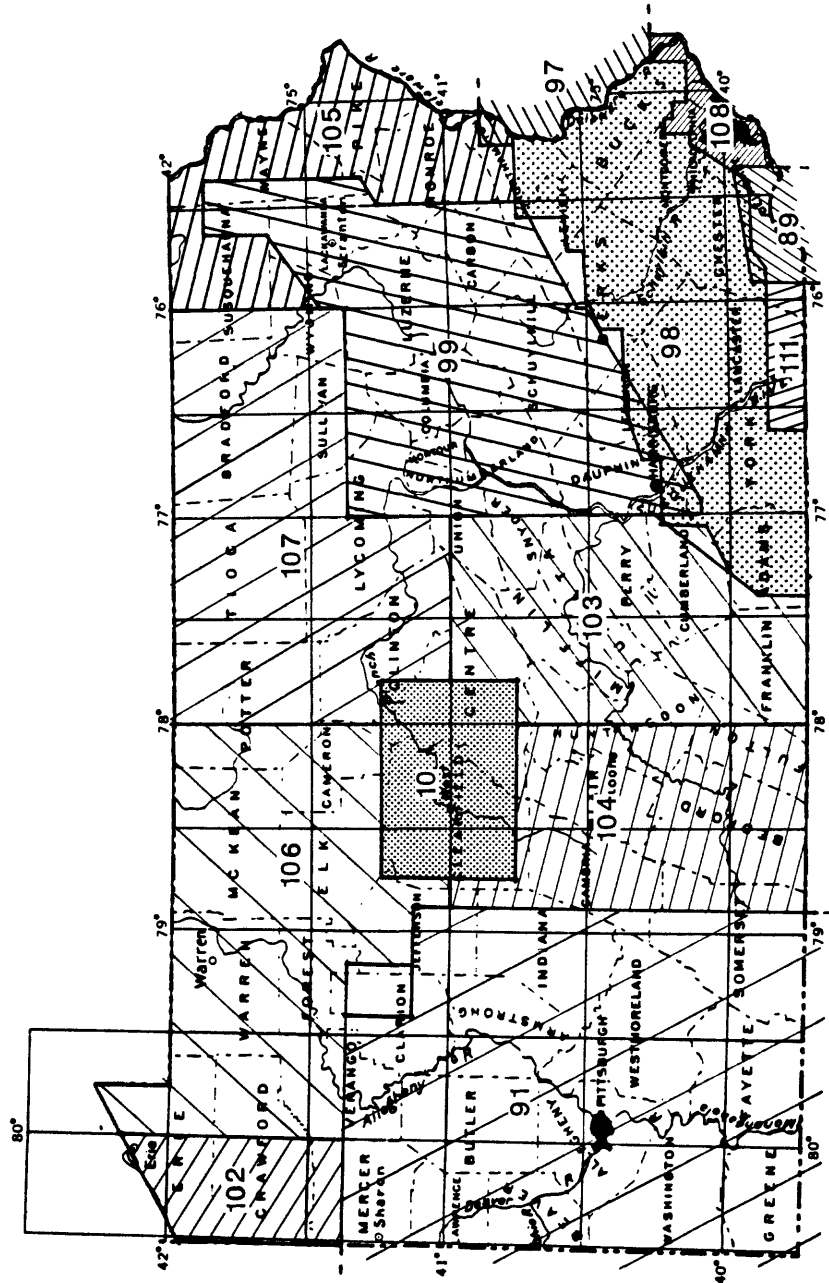
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



MAP 1

# PENNSYLVANIA

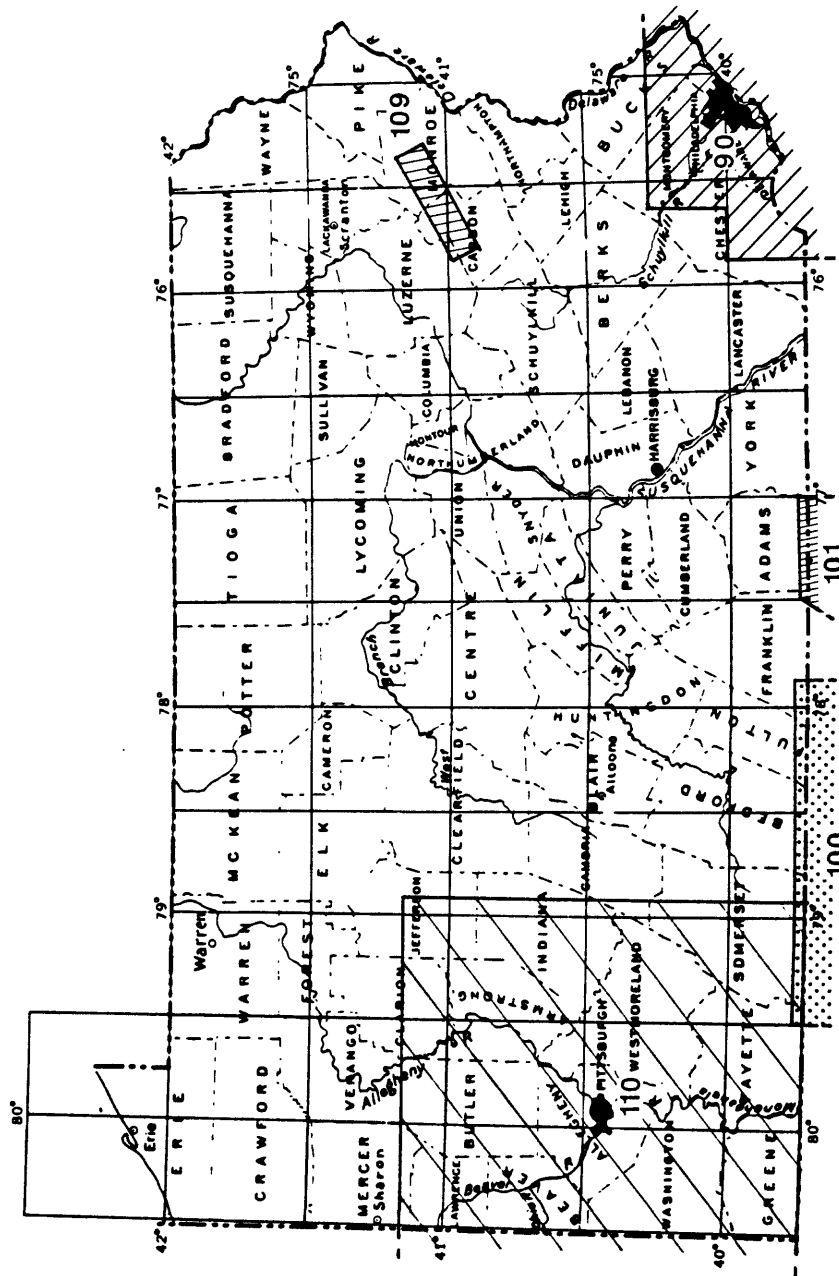
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



MAP 2

# PENNSYLVANIA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



MAP 3



# VERMONT-NEW HAMPSHIRE AIRBORNE INDEX

(see U.S. Regional Index for additonal publications)

(Repository and some source locations are listed on page 86 except where noted.)

Map ref.

Aeromagnetic maps of the following quadrangles or areas are by

R. W. Bromery and others unless otherwise noted, scale 1:62,500:

|  |    |
|--|----|
| Alton, N.H., GP-136, 1956.....                                 | 10 |
| Berwick, Me. and N.H., GP-137, 1956.....                       | 11 |
| Umbagog Lake and vicinity, N.H. and Me., GP-138, 1957.....     | 12 |
| Berlin and vicinity, N.H. and Me., GP-139, 1957.....           | 13 |
| Littleton and vicinity, N.H. and Vt., GP-194, 1958.....        | 14 |
| Woodsville and vicinity, N.H. and Vt., GP-195, 1958.....       | 15 |
| Stafford, Vt., by J. L. Meuschke and others, GP-296, 1962..... | 16 |
| Mt. Cube and part of Rumney, N.H. and Vt., GP-297, 1962.....   | 17 |

Aeromagnetic maps of the following quadrangles or areas are by

J. L. Meuschke and others, scale 1:62,500:

|  |    |
|--|----|
| Hanover, N.H. and Vt., GP-298, 1962.....                                   | 18 |
| Mascoma and part of Cardigan, N.H. and Vt., GP-299, 1962.....              | 19 |
| Claremont, N.H. and Vt., GP-300, 1962.....                                 | 20 |
| Part of Sumapee, N.H., GP-301, 1962.....                                   | 21 |
| Bellows Falls and part of Lovewell Mountain, N.H. and Vt., GP-302, 1962... | 22 |
| Keene and parts of Brattleboro and Monadnock, N.H. and Vt., GP-303, 1962.. | 23 |

Aeromagnetic maps of the following quadrangles are by Peter Popenoe and others unless otherwise noted; scale 1:24,000:

|  |    |
|--|----|
| Bernardston, Mass. and Vt., by G. E. Andreasen and G. L. Zandle, GP-430, 1963.....       | 24 |
| Colrain, Mass. and Vt., by G. E. Andreasen and G. L. Zandle, GP-431, 1963.               | 25 |
| Heath, Mass. and Vt., GP-433, 1963.....  | 26 |
| Northfield, Mass., Vt., and N.H., by G. E. Andreasen and G. L. Zandle, GP-435, 1963..... | 27 |
| Rowe, Mass. and Vt., GP-437, 1963.....   | 28 |
| Berlin, Mass., N.Y., and Vt., GP-449, 1964.....  | 29 |
| North Adams, Mass. and Vt., GP-454, 1964.....  | 30 |
| Williamstown, Mass. and Vt., GP-460, 1964.....   | 31 |

Aeroradioactivity of parts of east-central New York and west-central

|   |    |
|---|----|
| New England, by Peter Popenoe, scale 1:250,000, GP-358, 1964..... | 32 |
|---|----|

# VERMONT - NEW HAMPSHIRE AIRBORNE (cont'd)

Map ref.

|  |    |
|--|----|
| Aeroradioactivity survey and areal geology of parts of east-central New York and west-central New England (ARMS-I), by Peter Popenoe, 40 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-59.4.14, 1964.....  | 32 |
| (Copies available from 4)  |    |
| Aeromagnetic map of parts of the Bolton Landing, Glens Falls, and Whitehall quadrangles, Warren and Washington counties, New York, and Rutland County Vermont, by J. R. Balsley and R. W. Bromery, scale 1:62,500, GP-509, 1965.   | 33 |
| Gravity anomalies in northwestern New England, by W. H. Diment, Cha. 30, <u>in</u> Studies of Appalachian Geology: Northern and Maritime, Interscience Publishers, N. Y., p. 399-413, 1968.....  | 34 |
| Geologic interpretation of aeromagnetic data for New England, by Andrew Griscom and R. W. Bromery, Cha. 32, <u>in</u> Studies of Appalachian Geology: Northern and Maritime, Interscience Publishers, N. Y., p. 425-436, 1968... (Shows aeromagnetic maps for three areas) | 35 |
| Airborne measurements of terrestrial radioactivity as an aid to geologic mapping, by J. A. Pitkin, 29 p., Prof. Paper 516-F, 1968.....   | 36 |
| Aeromagnetic maps of the following areas are at scale 1:62,500:  |    |
| First Connecticut Lake and vicinity, N.H., GP-654, 1969.....   | 37 |
| Colebrook-Umbagog Lake area, N.H. and Vt., GP-655, 1969.....   | 38 |
| Beach Hill and vicinity, N.H. and Vt., GP-656, 1969.....   | 39 |
| Aeromagnetic maps of the following quadrangles are at scale 1:24,000:  |    |
| Part of Salem Depot, N.H. and Mass., GP-712, 1970.....   | 40 |
| Part of Haverhill, Mass. and N.H., GP-713, 1970.....   | 41 |
| Part of Newburyport West, Mass. and N.H., GP-714, 1970.....  | 42 |
| Part of Newburyport East, Mass. and N.H., GP-715, 1970.....  | 43 |
| Lawrence, Mass. and N.H., GP-716, 1970.....  | 44 |
| Mt. Grace and part of Northfield, Mass. and N.H., GP-726, 1971.....  | 45 |
| Royalston, Mass. and N.H., GP-727, 1971.....   | 46 |
| Winchendon, Mass. and N.H., GP-728, 1971.....  | 47 |
| Ashburnham, Mass. and N.H., GP-729, 1971.....  | 48 |
| Ashby, Mass. and N.H., GP-730, 1971.....   | 49 |
| Townsend, Mass. and N.H., GP-731, 1971.....  | 50 |
| Pepperell, Mass. and N.H., GP-732, 1971.....   | 51 |
| Nashua South, Mass. and N.H., GP-733, 1971.....  | 52 |
| Lowell, Mass. and N.H., GP-734, 1971.....  | 53 |

VERMONT - NEW HAMPSHIRE AIRBORNE (cont'd)

Map ref.

|  |              |
|--|--------------|
| Aeromagnetic map of Mount Washington and vicinity, New Hampshire and Maine, scale 1:62,500, GP-891, 1973.....  | 54           |
| Aeromagnetic map of the Plymouth-Laconia area, New Hampshire, scale 1:62,500, GP-892, 1973.....  | 55           |
| Aeromagnetic map of central New Hampshire using digitized data, by J. H. Hassemer and others, scale 1:250,000, OF Rept. 79-666, 1979.....  | 54 & 55      |
| Configuration of Precambrian rocks in southeastern New York and adjacent New England, by D. S. Harwood and Isidore Zietz, Geol. Soc. Am. Bull., v. 85, no. 2, p. 181-188, 1974.....<br>(Fig. 2 is an aeromagnetic map)   | 56           |
| Summary report, geologic and seismologic investigations, by Weston Geophysical Research, Inc., 136 p., aeromagnetic map scale 1:400,000, Boston Edison Company, Docket No. 50-471, BE-SG 7602, 1976.....   | 57           |
| Aeromagnetic survey of southeastern New England and the Western Gulf of Maine, by Weston Geophysical Research, Inc., 57 p., 4 sheets, scale 1:250,000, Boston Edison Company, Docket No. 50-471, BE-SG 7604, 1976.....   | 57 & 58      |
| Digitized aeromagnetic map of part of the Boston 1° x 2° Quadrangle, Massachusetts, New Hampshire, Connecticut, Rhode Island, and Maine, by R. W. Simpson, J. H. Hassemer, and J. R. Linton, scale 1:125,000, OF Rept. 80-243, 1980.....                                       | 58           |
| Aeromagnetic map of Connecticut, Massachusetts, New Hampshire, Rhode Island, Vermont, and part of New York, by Isidore Zietz, F. P. Gilbert, and J. R. Kirby, Jr., scale 1:1,000,000, GP-928, 1980.....  | whole states |
| Preliminary aeromagnetic map of the Lewiston and Sherbrooke quadrangles, Maine-New Hampshire-Vermont, by W. A. Bothner, R. P. Kucks, and C. E. Jahrling, scale 1:250,000, OF Rept. 85-501, 1985.....<br>(A gridded digital data tape is available from 5)                      | 59           |
| Bouguer gravity and aeromagnetic maps of the wildernesses and roadless areas of the White Mountain National Forest, Coos, Carroll, and Grafton counties, New Hampshire, by W. A. Bothner and C. E. Jahrling, and R. P. Kucks, 6 p., scale 1:125,000, MF-1594-D, 1986.....      | 60           |
| Geological, geophysical, and seismological studies related to the 1755 Cape Ann, Massachusetts, earthquake, by R. J. Holt, OF Rept. 88-013A, p. 168-180, 1988.....   | 61           |
| Summary results of the Glens Falls CUSMAP project, New York, Vermont, and New Hampshire, by J. F. Slack and others, 279 p., Bulletin 1887, 1990.....<br>(The coordinates of Glens Falls are: 70°-72° long., 43°-44° lat.)<br>(Gridded digital data tapes are available from 6) | not shown    |

VERMONT - NEW HAMPSHIRE AIRBORNE (cont'd)

Other publications of interest; not shown on index maps:

Gravity in north-central New England, by W. B. Joyner, Geol. Soc. Am. Bull., v. 74, no. 7, p. 831-857, 1963.

(Shows aeromagnetic contours over the Merrymeeting Stock)

Geologic interpretations of an aeromagnetic map of southern New England, by D. S. Harwood and Isidore Zietz, scale 1:250,000, GP-906, 1976(1977).

(Covers the states south of 43°)

Aeromagnetic lineament map of southern New England showing relation of lineaments to bedrock geology, by P. J. Barosh and others, scale 1:250,000, MF-885, 1977. (Covers the states south of 43°)

Radioactivity map of Vermont, 1980, by C. Ratte and D. Vanecek, 11 p., 1 sheet, Vermont Geol. Survey Open-File Rept. 1980.

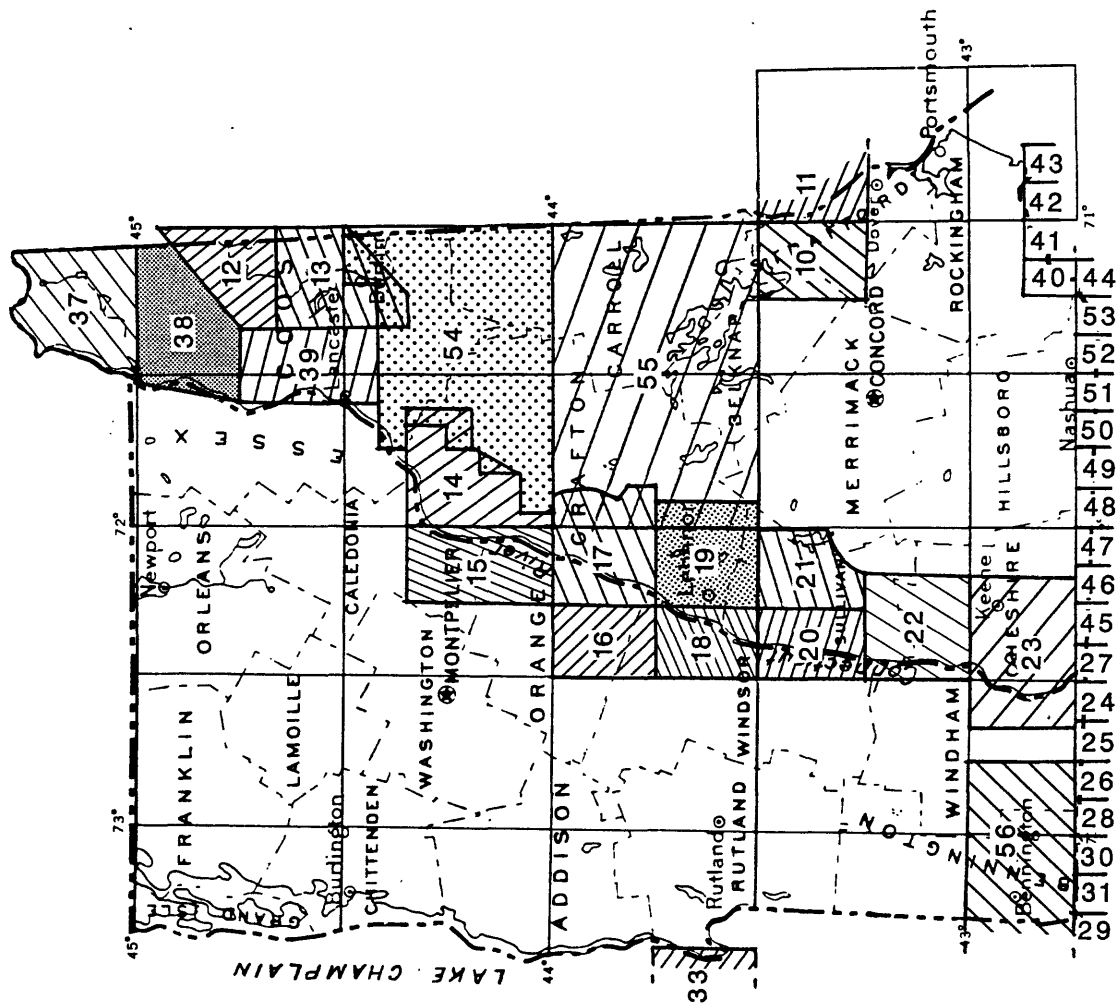
Gravity and magnetic anomalies of the Sutton Mountains region, Quebec and Vermont; expressions of rift volcanics related to the opening of Iapetus, by P. S. Kumarapeli, A. K. Goodacre, and M. D. Thomas, Canadian Jour. Earth Sci., v. 18, no. 4, p. 680-692, 1981.

U.S.G.S. open-file reports for Vermont and New Hampshire are available for viewing at 1, 2, and 3. Additional locations for viewing reports which overlap into adjacent states are listed in that state's index.

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. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161
5. N.G.D.C., NOAA, Code E/GC12, 325 Broadway, Boulder, CO 80303
6. U.S.G.S., EROS Data Center, User Services, Sioux Falls, SD 57198

# VERMONT - NEW HAMPSHIRE

TOPOGRAPHIC DIVISION  
ATLANTIC REGION  
ARLINGTON, VIRGINIA



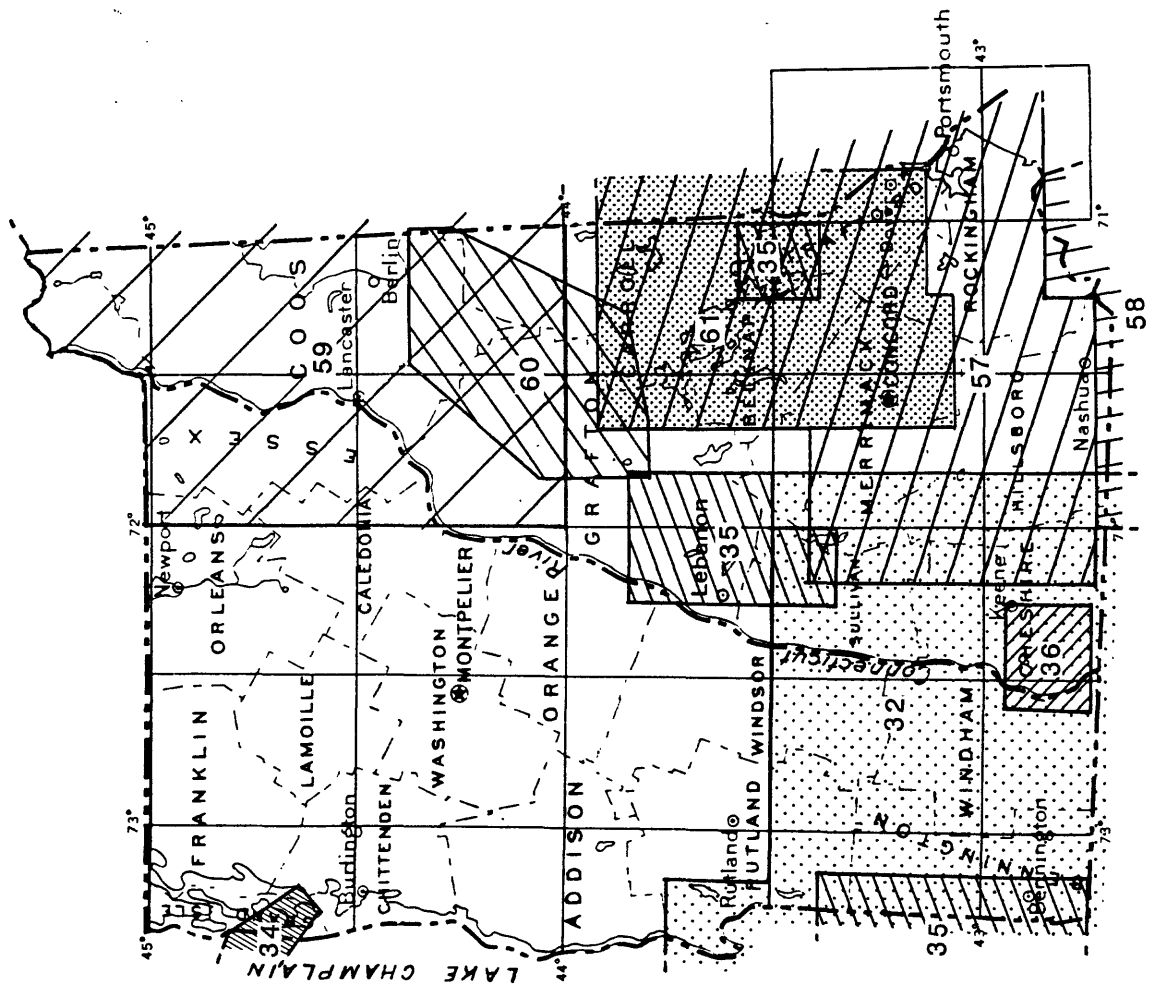
MAP 1



# VERMONT - NEW HAMPSHIRE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

TOPOGRAPHIC DIVISION  
ATLANTIC REGION  
ARLINGTON, VIRGINIA



MAP 2



# WISCONSIN AIRBORNE INDEX

(see U.S. Regional Index for additional publications)

(Repository and some source locations are listed on page 93 except where noted.)

Map ref.

|   |             |
|---|-------------|
| Aeromagnetic map of Highland and vicinity, Wisconsin, by W. J. Dempsey, scale 1:31,680, OF Rept. 58-029, 1958.....  | 10          |
| Use of geophysical data to interpret geology in Precambrian rocks of central Wisconsin, by J. W. Allingham and R. G. Bates, <u>in</u> Prof. Paper 424-D, p. 292-296, 1961.....  | 11          |
| Aeromagnetic map of the Wausau area, Wisconsin, by J. R. Henderson, N. S. Tyson, and J. R. Paige, scale 1:48,000, GP-401, 1963.....   | 11          |
| Tectonics of the Keweenaw basin, western Lake Superior region, by W. S. White, 23 p., Prof. Paper 524-E, 1966.....<br>(Figs. 3 and 4 show aeromagnetic profiles and generalized aeromagnetic map)   | 12          |
| Regional aeromagnetic map of western Lake Superior and adjacent parts of Minnesota, Michigan, and Wisconsin, by J. R. Kirby and A. J. Petty, scale 1:250,000, GP-556, 1966.....   | 12          |
| Aeromagnetic map of the Florence-Goodman area, Florence, Forest, and Marinette counties, Wisconsin, by E. R. King, J. R. Henderson, and J. L. Vargo, scale 1:62,500, GP-576, 1966.....  | 13          |
| A regional aeromagnetic survey of Wisconsin, by R. W. Patenaude, Am. Geophys. Union, Mon. 10, p. 111-126, 1966.....   | whole state |
| Lithologic, geophysical, and mineral commodity maps of Precambrian rocks in Wisconsin, by C. E. Dutton and R. E. Bradley, 15 p., 6 sheets, aeromagnetic map scale 1:500,000, I-631, 1970.....   | whole state |
| Aeromagnetic and tectonic analysis of the Upper Mississippi Valley zinc-lead district, by A. V. Heyl and E. R. King, 16 p., scale 1:62,500, Bulletin 1242-A, 1966(1967).....  | 14          |
| Aeromagnetic and inferred Precambrian paleogeologic map of east-central Minnesota and part of Wisconsin, by P. K. Sims and Isidore Zietz, scale 1:250,000, GP-563, 1967.....  | 15          |
| Natural gamma aeroradioactivity map of the Minneapolis-Saint Paul area, Minnesota-Wisconsin, by S. K. Neuschel, scale 1:250,000, GP-658, 1969.....  | 15          |
| Aeroradioactivity survey and areal geology of the Minneapolis-Saint Paul area, Minnesota and Wisconsin (ARMS-I), by S. K. Neuschel, 24 p., scale 1:250,000, U.S. Atomic Energy Comm. Rept. CEX-61.7.1, 1970.....<br>(Copies available from 5) | 15          |
| Aeromagnetic map of central Pine County, Minnesota and adjacent parts of Wisconsin, scale 1:62,500, GP-636, 1968.....   | 16          |

# WISCONSIN AIRBORNE (cont'd)

Map ref.

|  |    |
|--|----|
| Aeromagnetic map of the Menominee-Northland area, Dickinson, Marquette, and Menominee counties, Michigan, and Marinette County, Wisconsin, 2 sheets, scale 1:62,500, GP-711, 1970.....   | 17 |
| A regional geophysical investigation of the Green Bay area, by N. W. O'Hara, Proc., 14th Conf. Great Lakes Research, p. 335-367, 1971.....   | 18 |
| Geology of Florence area, Wisconsin and Michigan, by C. E. Dutton, 54 p., aeromagnetic map scale 1:24,000, Prof. Paper 633, 1971(1972).....  | 19 |
| Regional gravity and magnetic study of southern Lake Michigan - Southern Lake Michigan geophysical study, by N. W. O'Hara, R. J. Wold, and W. J. Hinze, Proc., 16th Conf. Great Lakes Research, p. 431-440, 1973.....  | 20 |
| Preliminary aeromagnetic map (in color) covering most of the exposed Precambrian terrane in Wisconsin, by Isidore Zietz, J. H. Karl, and M. E. Ostrom, scale 1:250,000, OF Rept. 77-598, 1977.....<br>(Copies on file at 1, 2, 4)  | 21 |
| Preliminary aeromagnetic map covering most of the exposed Precambrian terrane in Wisconsin, by Isidore Zietz, J. H. Karl, and M. E. Ostrom, scale 1:250,000, MF-888, 1977.....<br>(Individual 1:62,500, 15-minute quadrangle maps, from which this composite map was made, are available from 4) | 21 |
| Mineral-resource evaluation of the Round Lake Wilderness Study Area, Price and Vilas counties, Wisconsin, by W. F. Cannon and others, 23 p., Bulletin 1512, 1981.....  | 22 |
| Airborne radiometric and magnetic survey of parts of the Upper Peninsula of Michigan and northern Wisconsin, 72 p., 46 sheets, scale 1:24,000, OF Rept. 83-195-A, 1983.....<br>(Copies on file at 1, 2, 3)   | 23 |
| Stacked profiles of data from an airborne radiometric and magnetic survey of parts of the Upper Peninsula of Michigan and northern Wisconsin, 5 p., 230 sheets, OF Rept. 83-195-B, 1983.....<br>(Copies on file at 1, 2, 3)  | 23 |
| Correlation of magnetic anomalies in east-central Minnesota and northern Wisconsin; constraints on magnitude and direction of Keweenaw rifting, by V. W. Chandler, Geology, v. 11, no. 3, p. 174-176, 1983.....  | 24 |
| Aeromagnetic map of northern Wisconsin, scale 1:250,000, Wisconsin Geol. and Nat. History Survey Map 83-4, 1983.....   | 25 |
| Precambrian terrane of north-central Wisconsin: An aeromagnetic perspective, by E. R. King, Canada. Jour. Earth Sci., v. 27, no. 11, p. 1472-1477, 1990.   | 25 |
| Aeromagnetic of Marathon County, Wisconsin, scale 1:100,000, Wisconsin Geol. and Nat. History Survey Map 83-6, 1983.....   | 26 |

# WISCONSIN AIRBORNE (cont'd)

Map ref.

- Precambrian geology of Marathon County, Wisconsin, by G. L. LaBerge and P. E. Myers, 88 p., aeromagnetic map scale 1:100,000, Wisconsin Geol. and Nat. History Survey Info. Circ. 45, 1983..... 26
- Geologic, aeromagnetic, and mineral resource potential maps of the Whisker Lake Wilderness, Florence County, Wisconsin, by K. J. Schulz, MF-1583, 1983..... 27
- Geologic and aeromagnetic maps and mineral resource potential survey of the Blackjack Springs Wilderness, Vilas County, Wisconsin, by K. J. Schulz, MF-1592, 1983..... 28
- Aeromagnetic map of the Iron River 1° by 2° Quadrangle, Michigan and Wisconsin, by E. R. King, scale 1:250,000, I-1360-F, 1987..... 29
- Regional aerial gamma-ray maps for Illinois and parts of Wisconsin, Iowa, Michigan, Indiana, Missouri, and Kentucky, by J. S. Duval and W. J. Jones, Missouri Dept. Nat. Resources, Spec. Pub. 4, p. 157-165, 1988..... 30
- Great Lakes publications; not shown on index map (most include some contours over land portions of the adjacent states and locations for the GSA MC maps are shown in the U.S. Regional Index):
- Geological interpretation of aeromagnetic profiles, by N. A. Ostenso, Science, v. 147, no. 3661, p. 1052-1055, 1965.
- Aeromagnetic, gravity, and sub-bottom profiling studies in western Lake Superior, by R. J. Wold and N. A. Ostenso, Am. Geophys. Union, Mon. 10, p. 66-94, 1966.
- Total magnetic intensity map of Lake Superior, by W. J. Hinze and others, Plate 1, Am. Geophys. Union Mon. 10, p. 94, 1966.
- Aeromagnetic studies of eastern Lake Superior, by W. J. Hinze and others, Am. Geophys. Union Mon. 10, p. 95-110, 1966.
- Basement geology of the Lake Michigan area from aeromagnetic studies, by N. W. O'Hara and W. J. Hinze, Geol. Soc. Am. Bull., v. 83, no. 6, p. 1771-1786, 1972.
- Aeromagnetic map of Michigan and the adjacent Great Lakes, by Isidore Zietz and others, scale 1:1,000,000, GP-894, 1974. (Shows contours in Green Bay)
- Great Lakes region gravity and magnetic map sequence: Lake Superior area, by N. W. O'Hara, 12 p., 2 sheets, scale 1:750,000, Geol. Soc. Am. Map and Chart Series MC-37, 1981.
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Magnetization of volcanic rocks in the Lake Superior geosyncline, by  
G. D. Bath, in Prof. Paper 400-B, p. 212-214, 1960.  
(Shows aeromagnetic profiles in northwest Wisconsin)

Aeromagnetic maps of the following quadrangles or areas are at scale 1:62,500;  
they extend only slightly into Wisconsin - see Michigan Index for location:

Parts of Ironwood and Wakefield, Mich. and Wis., by P. W. Philbin and  
J. L. Vargo, GP-578, 1966.

Parts of Thomaston, Carp River, North Ironwood, and Little Girls Point, Mich.  
and Wis., by P. W. Philbin and J. L. Vargo, GP-579, 1966.

Beechwood, Mich. and Wis., GP-603, 1967.

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Central Gogebic County, Mich., and northern Vilas County, Wis., GP-828, 1972.

Watersmeet region, Mich. and Wis., GP-831, 1972.

Refraction seismic investigations of the northern midcontinent gravity high,  
by H. M. Mooney, C. Craddock, and P. R. Farnham, Jour. Geophys. Res., v 75,  
no. 26, p. 5056-5086, 1970.  
(Contains an aeromagnetic map of part of northern Wisconsin)

Aeromagnetic map of the western part of the northern peninsula, Michigan, and  
part of northern Wisconsin, by Isidore Zietz and J. R. Kirby, scale 1:250,000,  
GP-750, 1971.

Major structural lineaments in the Precambrian of central Wisconsin, by  
G. L. LaBerge, Utah Geol. Assoc., Pub. no. 5, p. 508-518, 1976.

Geologic interpretation of gravity and magnetic data for northern Michigan and  
Wisconsin, by J. S. Klasner, E. R. King, and W. J. Jones, in The utility of  
regional gravity and magnetic anomaly maps, W. J. Hinze, ed., Soc. Explor.  
Geophys., p. 267-286, 1985. (Covers state north of 44° and east of 90°30')

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p. 677-685, 1987.

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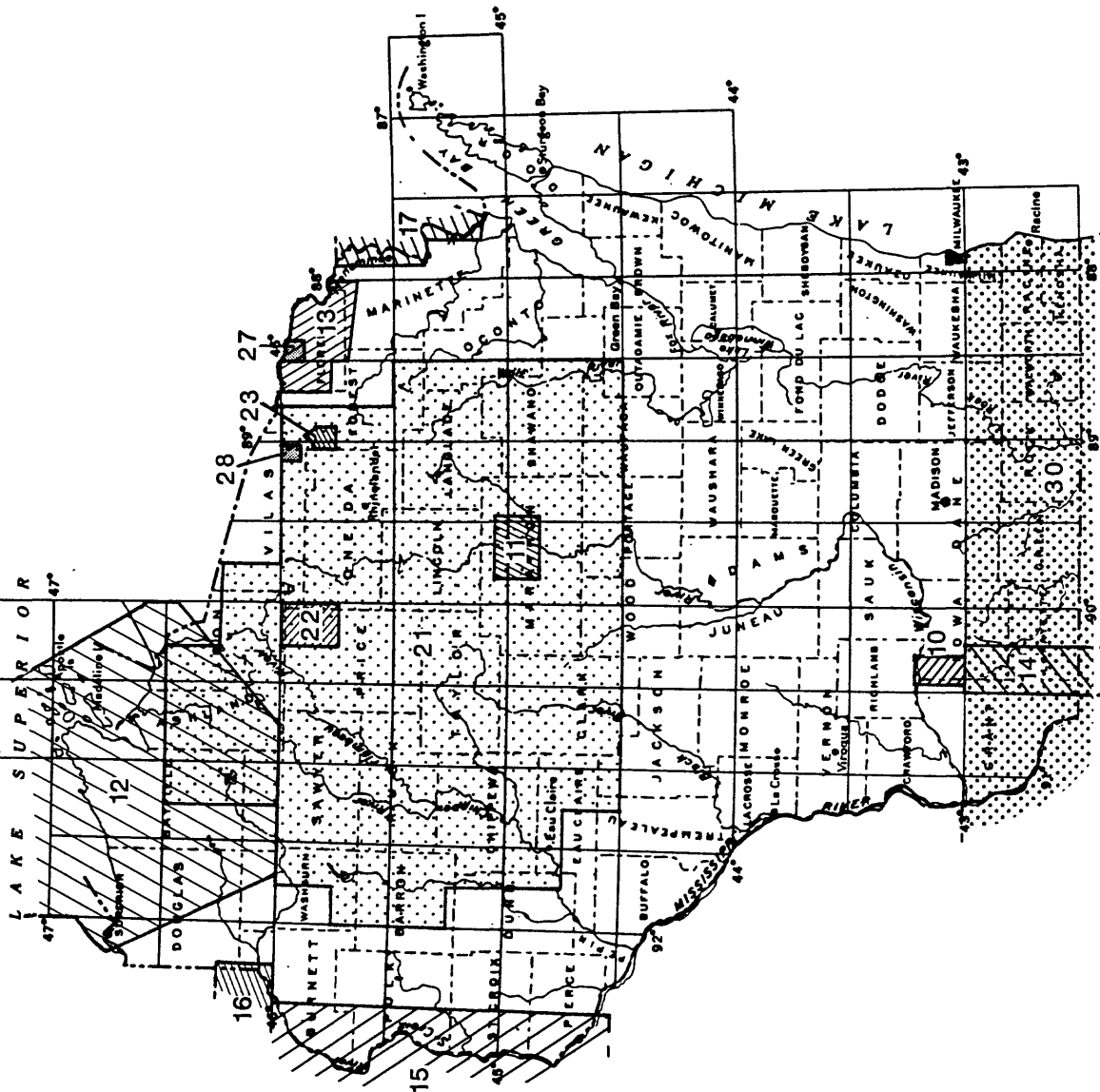
U.S.G.S. open-file reports for Wisconsin are available for viewing at 1, 2, 3, and 4. Additional locations for viewing reports which overlap into adjacent states are listed in that state's index.

Wisconsin Geological and Natural History Survey maps and circulars are available from 4. They are not available from the USGS.

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. Wisconsin State Geologist's Office, 1815 University Ave., Madison, WI 53706
5. N.T.I.S., 5285 Port Royal Rd., Springfield, VA 22161

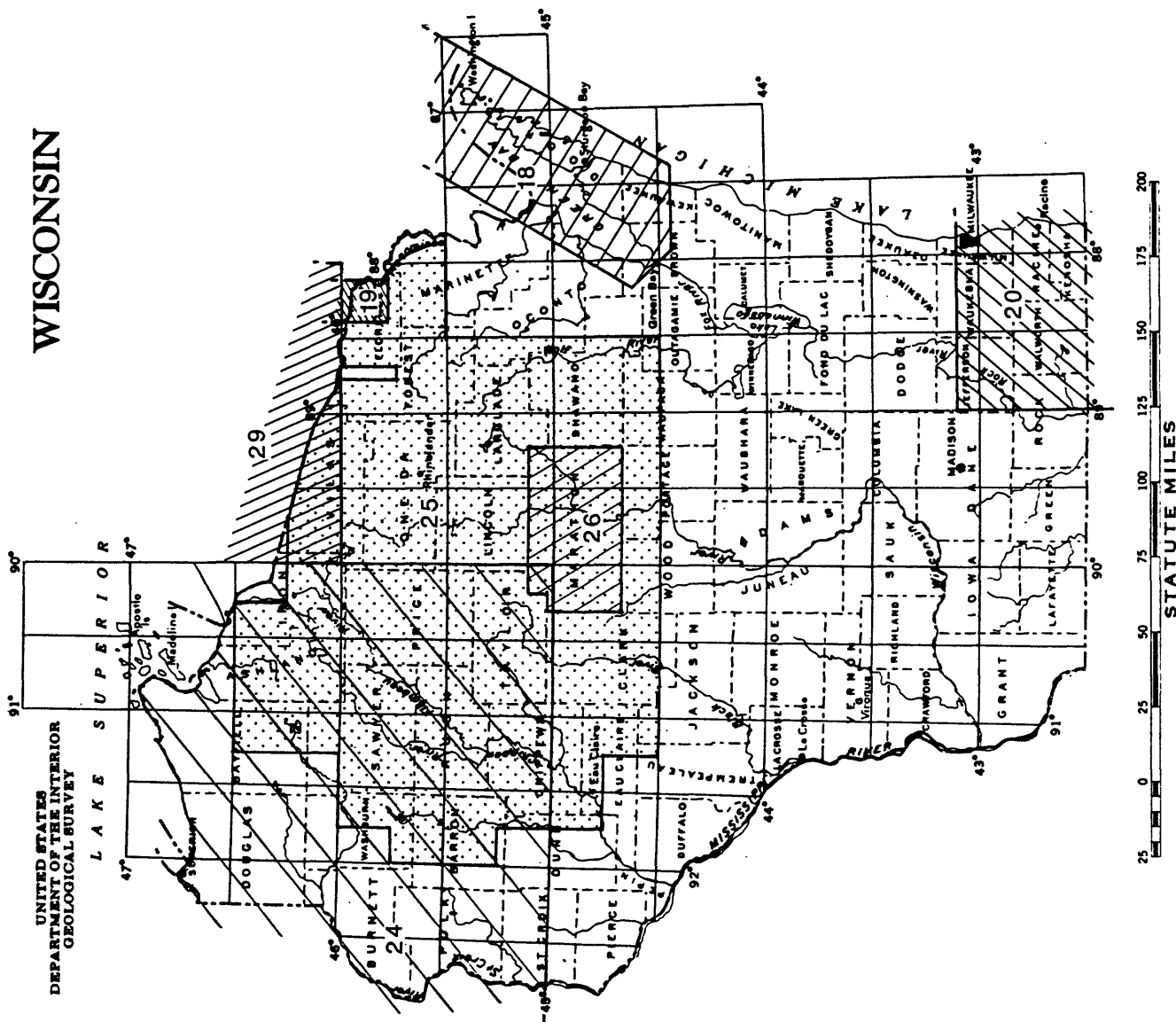
# WISCONSIN

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



MAP 1

# WISCONSIN



MAP 2

# NORTHEASTERN 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 individual state indexes or the U.S. Regional Index.

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 2° sheet. Included are geochemical, geological, and airborne geophysical reports:

Index of open file reports - United States, by Bendix Field Engineering Corp., Dept. of Energy Preliminary Map 35, 1983.

## 1° BY 2° 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 aeromagnetism only. Sheets 1-3 show profiles, 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 Open-file Report GJM-\_\_\_\_, 1982 (or 1983).

| Quadrangle  | item             | item              |         |
|-------------|------------------|-------------------|---------|
| Albany      | 1. GJO-1666-1    | 54. PGJ/F-104(82) | GJM-375 |
| Alpena      | 11. GJBX-039(80) |                   | GJM-226 |
| Ashland     | 7. GJBX-050(78)  | 49. PGJ/F-084(82) | GJM-252 |
| Aurora      | 27. GJBX-181(81) |                   | GJM-249 |
| Baltimore   | 8. GJBX-133(78)  |                   | GJM-167 |
| Bangor      | 38. GJBX-327(81) |                   | GJM-192 |
| Bath        | 38. GJBX-327(81) |                   | GJM-194 |
| Belleville  | 35. GJBX-241(81) |                   | GJM-124 |
| Binghamton  | 38. GJBX-327(81) |                   | GJM-234 |
| Blind River | 11. GJBX-039(80) |                   | GJM-150 |
| Boston      | 1. GJO-1666-1    |                   | GJM-378 |
| Buffalo     | 30. GJBX-211(81) |                   | GJM-224 |
| Burlington  | 44. GJBX-028(82) |                   | GJM-202 |
| Campbellton | 38. GJBX-327(81) |                   | GJM-205 |

NORTHEASTERN AREA AIRBORNE (cont'd)

| Quadrangle     | item             | item              |         |
|----------------|------------------|-------------------|---------|
| Canton         | 14. GJBX-092(80) |                   | GJM-176 |
| Charleston     | 14. GJBX-092(80) |                   | GJM-182 |
| Cheboygan      | 11. GJBX-039(80) |                   | GJM-238 |
| Chicago        | 16. GJBX-031(81) |                   | GJM-212 |
| Cincinnati     | 24. GJBX-096(81) |                   | GJM-148 |
| Clarksburg     | 14. GJBX-092(80) |                   | GJM-179 |
| Cleveland      | 45. GJBX-042(82) |                   | GJM-174 |
| Columbus       | 31. GJBX-225(81) |                   | GJM-178 |
| Cumberland     | 14. GJBX-092(80) |                   | GJM-180 |
| Danville       | 17. GJBX-048(81) |                   | GJM-199 |
| Davenport      | 19. GJBX-059(81) |                   | GJM-257 |
| Decatur        | 35. GJBX-241(81) |                   | GJM-203 |
| Detroit        | 33. GJBX-238(81) |                   | GJM-222 |
| Dubuque        | 21. GJBX-064(81) |                   | GJM-256 |
| Duluth         | 39. GJBX-330(81) |                   | GJM-260 |
| Eastport       | 38. GJBX-327(81) |                   | GJM-193 |
| Eau Claire     | 3. GJBX-026(78)  | 48. PGJ/F-071(82) | GJM-254 |
| Edmundston     | 38. GJBX-327(81) |                   | GJM-189 |
| Elmira         | 30. GJBX-211(81) |                   | GJM-229 |
| Erie           | 45. GJBX-042(82) |                   | GJM-237 |
| Escanaba       | 11. GJBX-039(80) |                   | GJM-241 |
| Evansville     | 9. GJBX-030(80)  |                   | GJM-119 |
| Flint          | 34. GJBX-239(81) |                   | GJM-216 |
| Fort Wayne     | 18. GJBX-049(81) |                   | GJM-214 |
| Fredericton    | 38. GJBX-327(81) |                   | GJM-206 |
| Glens Falls    | 1. GJO-1666-1    |                   | GJM-374 |
| Grand Rapids   | 32. GJBX-237(81) |                   | GJM-213 |
| Green Bay      | 3. GJBX-026(78)  | 52. PGJ/F-093(82) | GJM-246 |
| Hancock        | 7. GJBX-050(78)  |                   | GJM-243 |
| Harrisburg     | 5. GJBX-033(78)  | 51. PGJ/F-086(82) | GJM-231 |
| Hartford       | 1. GJO-1666-1    |                   | GJM-376 |
| Huntington     | 26. GJBX-134(81) |                   | GJM-181 |
| Indianapolis   | 25. GJBX-097(81) |                   | GJM-125 |
| Iron Mountain  | 3. GJBX-026(78)  |                   | GJM-245 |
| Iron River     | 7. GJBX-050(78)  | 55. PGJ/F-120(82) | GJM-244 |
| Kingston       | 30. GJBX-211(81) |                   | GJM-227 |
| La Crosse      | 20. GJBX-060(81) |                   | GJM-255 |
| Lake Champlain | 1. GJO-1666-1    |                   | GJM-373 |
| Lewiston       | 38. GJBX-327(81) |                   | GJM-197 |
| Louisville     | 22. GJBX-094(81) |                   | GJM-117 |
| Madison        | 27. GJBX-181(81) |                   | GJM-247 |
| Manitowoc      | 37. GJBX-270(81) |                   | GJM-242 |
| Marion         | 29. GJBX-210(81) |                   | GJM-175 |
| Marquette      | 7. GJBX-050(78)  |                   | GJM-240 |
| Midland        | 36. GJBX-268(81) |                   | GJM-217 |
| Millinocket    | 38. GJBX-327(81) |                   | GJM-198 |
| Milwaukee      | 36. GJBX-268(81) |                   | GJM-220 |
| Muncie         | 15. GJBX-030(81) |                   | GJM-200 |
| Newark         | 2. GJBX-016(78)  | 56. PGJ/F-123(82) | GJM-236 |
| Ogdensburg     | 38. GJBX-327(81) |                   | GJM-232 |
| Paducah        | 12. GJBX-041(80) |                   | GJM-118 |
| Peoria         | 35. GJBX-241(81) |                   | GJM-211 |

# NORTHEASTERN AREA AIRBORNE (cont'd)

| Quadrangle       | item             | item              |         |
|------------------|------------------|-------------------|---------|
| Pittsburgh       | 45. GJBX-042(82) |                   | GJM-177 |
| Portland         | 1. GJO-1666-1    |                   | GJM-377 |
| Presque Isle     | 38. GJBX-327(81) |                   | GJM-190 |
| Providence       | 1. GJO-1666-1    | 53. PGJ/F-101(82) | GJM-379 |
| Quebec           | 38. GJBX-327(81) |                   | GJM-195 |
| Quincy           | 43. GJBX-027(82) |                   | GJM-168 |
| Racine           | 32. GJBX-237(81) |                   | GJM-218 |
| Rice Lake        | 3. GJBX-026(78)  | 47. GJQ-006(81)   | GJM-253 |
| Rochester        | 30. GJBX-211(81) |                   | GJM-228 |
| Rockford         | 27. GJBX-181(81) |                   | GJM-248 |
| Saint Louis      | 42. GJBX-026(82) |                   | GJM-169 |
| Saint Paul       | 40. GJBX-333(81) |                   | GJM-262 |
| Salisbury        | 10. GJBX-037(80) |                   | GJM-127 |
| Sault Ste. Marie | 11. GJBX-039(80) |                   | GJM-239 |
| Scranton         | 4. GJBX-032(78)  | 46. GJQ-003(80)   | GJM-235 |
| Sherbrooke       | 38. GJBX-327(81) |                   | GJM-196 |
| Stillwater       | 41. GJBX-334(81) |                   | GJM-261 |
| Tawas City       | 34. GJBX-239(81) |                   | GJM-215 |
| Toledo           | 28. GJBX-209(81) |                   | GJM-219 |
| Toronto          | 30. GJBX-211(81) |                   | GJM-223 |
| Traverse City    | 37. GJBX-270(81) |                   | GJM-221 |
| Utica            | 38. GJBX-327(81) |                   | GJM-233 |
| Vincennes        | 23. GJBX-095(81) |                   | GJM-116 |
| Warren           | 45. GJBX-042(82) |                   | GJM-225 |
| Washington       | 8. GJBX-133(78)  |                   | GJM-184 |
| Williamsport     | 6. GJBX-034(78)  | 50. PGJ/F-085(82) | GJM-230 |
| Wilmington       | 13. GJBX-068(80) |                   | GJM-204 |
| Woodstock        | 38. GJBX-327(81) |                   | GJM-191 |

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3. Aerial gamma ray and magnetic survey, Rice Lake Quadrangle, Wisconsin, Iron Mountain Quadrangle, Wisconsin/Michigan, Eau Claire Quadrangle, Wisconsin/Minnesota, Green Bay Quadrangle, Wisconsin, by GeoMetrics, Inc., 5 vols., U.S. Department of Energy, Grand Junction Office Report GJBX-026(78), 1978.
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