

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

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This report is preliminary and has not been edited or reviewed for conformity with Alaska Geological & Geophysical Surveys standards.

Alaska Open File Report 77
AEROMAGNETIC MAP, EASTERN TWO-THIRDS
OF BAIRD MOUNTAINS QUADRANGLE, ALASKA

AEROMAGNETIC PROGRAM
OF THE
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

The Alaska Geological and Geophysical Surveys Aeromagnetic Program is a State-funded project that was started in 1971. Under the direction of the Surveys, an aeromagnetic contractor flies the aeromagnetic profiles, compiles the data, and prints the maps.

Two hundred (200) maps at 1:63,360 scale are printed for sale by the Surveys. In addition, a composite 1:250,000 map of each USGS quadrangle is also made and open filed.

TECHNICAL INFORMATION

1971 - 1973 DATA

The survey flight lines are spaced 3/4 mile apart and 1000 feet above ground level where possible. Tie lines were flown at 15-mile intervals normal to the flight lines. The fluxgate magnetometer signal was recorded in flight on a paper strip-chart recorder. The diurnal variation was recorded by a ground station. Aircraft altitude was determined by radio altimeter and recorded in flight on a paper strip-chart recorder. Aerial photography on 35 mm black-and-white film at 3-second intervals was used to plot the aircraft flight path. The regional field was removed from the magnetic data and corrections were made for diurnal variation.

1974 DATA

Survey lines were flown 1 mile apart with 15-mile tie lines. Data were recorded digitally. Maps were digitally contoured. Details of digital recording and processing are available on request.

The original field data are kept in the Division of Geological and Geophysical Surveys offices, and may be copied at the expense of the interested person.



AEROMAGNETIC OPEN FILE SERIES

(1:250,000)

<u>ALASKA OPEN FILE (AOF)</u>	<u>YEAR FLOWN</u>	<u>QUADRANGLE</u>
1	1971	Selawik
2	1971	Teller
3	1971	Bendeleben
4	1971	Candle
5	1971	Nome
6	1971	Solomon
7	1971	Norton Bay
8	1971	Fairbanks (south)
9	1971	Healy
10	1971	Mt. Hayes
11	1971	Tanacross
12	1971	Gulkana
13	1971	Nabesna
14	1971	Bethel
15	1971	Goodnews
16	1971	Hagemeister Island
17	1971	Nushagak Bay
18	1972	Eagle
19	1972	Talkeetna
20	1972	Talkeetna Mts.
21	1972	Anchorage
72	1973	Big Delta
76	1974	Ambler River
77	1974	Baird Mts.
78	1974	Selawik
79	1974	Shungnak