DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

U.S. GEOLOGICAL SURVEY
OPEN FILE MAP

77-169-J

SOURCES AND EXPLANATION OF DATA

1. Reed, B.L., and Anderson, L.A., 1969, Aeromagnetic maps of part of the southern Alaska Range: U.S. Geol. Survey open-file report 69-215, scale 1:63,360, contour interval 10 gammas.

   Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
   Datum: arbitrary.
   Flight line spacing and direction: 1 mile east-west.
   Flight elevation: 7500 feet above sea level (northern third), 7000 feet above sea level (central third), and 10,000 feet above sea level (southern third)
   Year flown: 1968.

2. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, northwest part of Nushagak Bay quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 17, scale 1:250,000, contour interval 10 gammas.

   Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
   Relative datum: 5000 gammas = zero datum, IGRF removed.
   Flight line spacing and direction: 3/4 mile north-south, with 15 mile east-west tie lines.
   Flight elevation: 1000 feet above ground level.
   Type of magnetometer: fluxgate.
   Year flown: 1971.

3. Henderson, J.R., Yargo, J.L., and others, 1963, Aeromagnetic map of part of the Dillingham quadrangle, Alaska: U.S. Geol. Survey Geophys. Inv. Map GP-352, scale 1:125,000, contour interval 50 gammas.

   Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
   Datum: arbitrary.
   Flight line spacing and direction: 2 miles east-west.
   Flight elevation: 1300 to 1500 feet above sea level.
   Year flown: 1954.

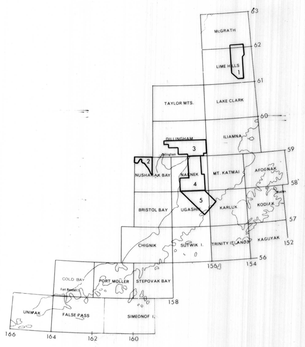
4. Andreasen, G.E., Dempsey, W.J., Yargo, J.L., and others, 1963, Aeromagnetic map of part of the Naknek quadrangle, Alaska: U.S. Geol. Survey Geophys. Inv. Map GP-353, scale 1:125,000, contour interval 50 gammas.

   Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
   Datum: arbitrary.
   Flight line spacing and direction: 2 miles approximately north-south.
   Flight elevation: 1000 to 1300 feet above sea level.
   Year flown: 1955.

5. Andreasen, G.E., Dempsey, W.T., Yargo, J.L., and others, 1963, Aeromagnetic map of parts of the Ugashik and Karluk quadrangles, Alaska: U.S. Geol. Survey Geophys. Inv. Map GP-354, scale 1:125,000, contour interval 50 gammas.

   Contour interval: 100 gammas; heavy numbered contours are 500 gammas; numbers are hundreds of gammas.
   Datum: arbitrary.
   Flight line spacing and direction: 2 miles northwest-southeast.
   Flight elevation: 1000 to 1300 feet above sea level.
   Year flown: 1955.

Location of the western part of southern Alaska.



Index map showing sources of aeromagnetic data.

MAP SYMBOLS

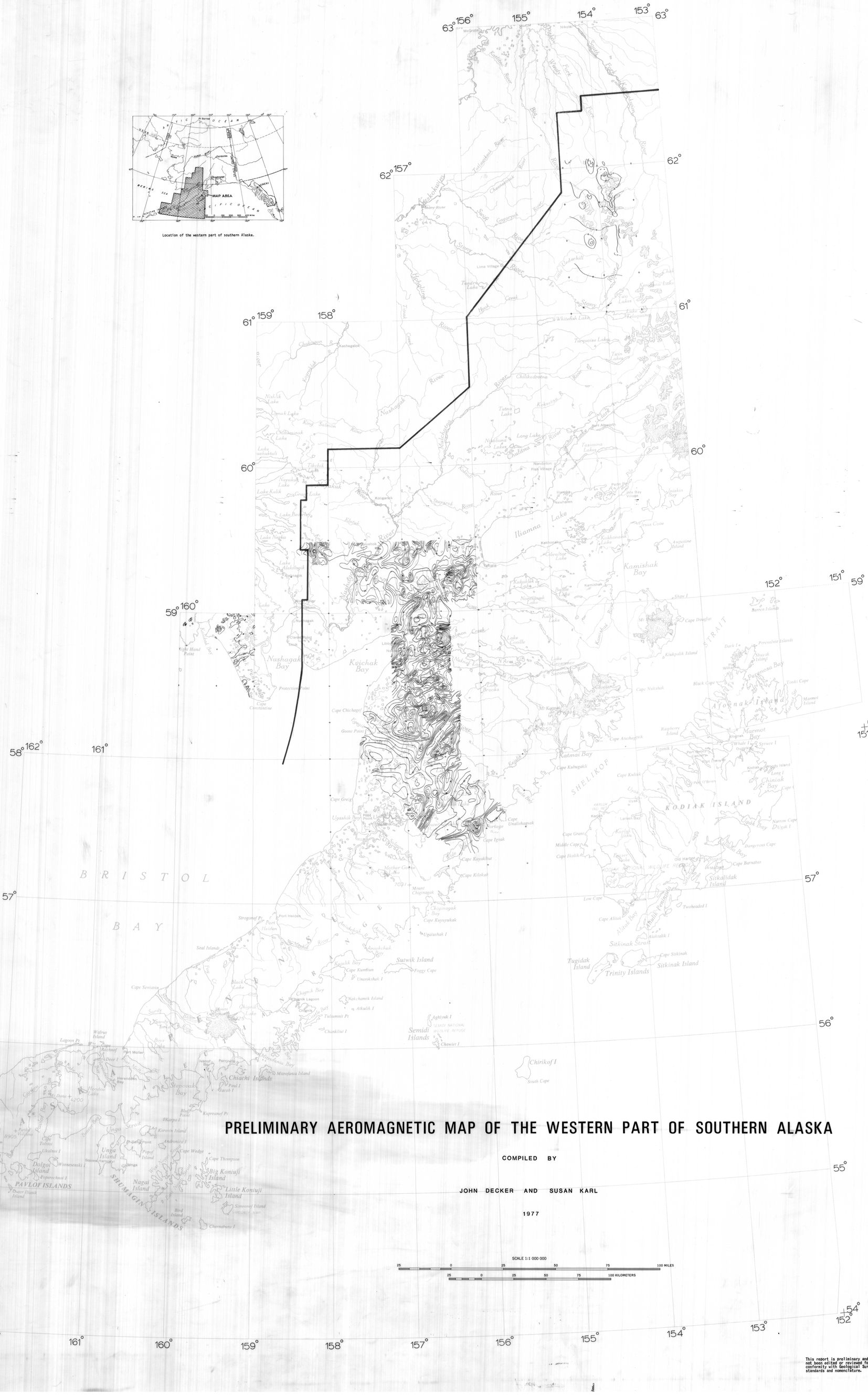
Magnetic contours, numbers are gammas x 100.

Hatchered contours indicate magnetic lows.

ACKNOWLEDGMENTS

This map was compiled under the direction of J.E. Case and Andrew Griscom, U.S. Geological Survey.

This map is a compilation of the available aeromagnetic data from the western part of southern Alaska; no attempt has been made to establish a common datum or to resolve boundary differences between adjacent surveys. The map is intended to show large scale magnetic anomaly patterns and to aid in regional geologic interpretations. Anyone interested in the detailed magnetic data for a particular area is referred to the original data.



PRELIMINARY AEROMAGNETIC MAP OF THE WESTERN PART OF SOUTHERN ALASKA

COMPILED BY

JOHN DECKER AND SUSAN KARL

1977

SCALE 1:1 000 000

25 0 25 50 75 100 MILES

25 0 25 50 75 100 KILOMETERS

Base map from the National Atlas of the United States of America, U.S. Geological Survey, 1970.

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.