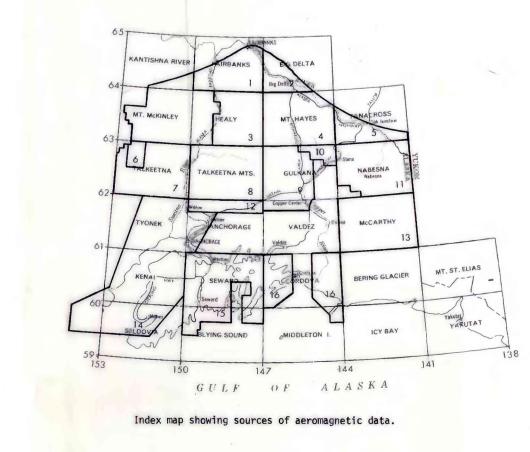
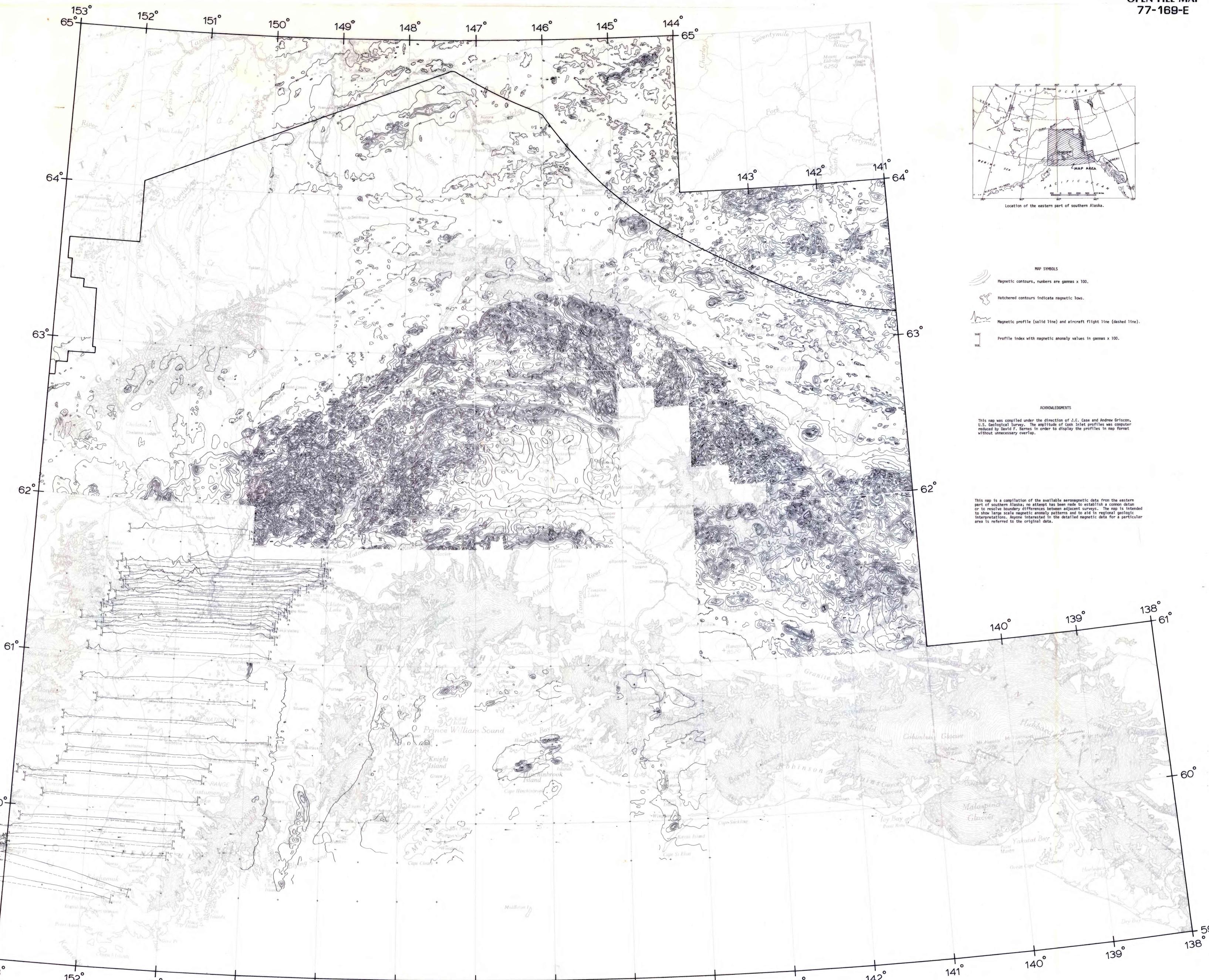
SOURCES AND EXPLANATION OF DATA

- Alaska Division of Geological and Geophysical Surveys, 1973 (revised, 1977), Aeromagnetic map, southeastern part of Fairbanks quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 8, 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 and 1973.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Big Delta quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 73, 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: 1973.
- 3. Alaska Division of Geological and Geophysical Surveys, 1973 (revised, 1977), Aeromagnetic map, Healy quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 9, 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 and 1973.
- Alaska Division of Geological and Geophysical Surveys, 1973 (revised, 1977), Aeromagnetic map, Mt. Hayes quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 10, 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 and 1973.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Tanacross quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 11, 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.
- Griscom, Andrew, 197_, Aeromagnetic interpretation of the Talkeetna quadrangle, Alaska: U.S. Geol. Survey Misc. Field Studies Map MF ___ (in preparation), 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 (1965), updated to 1975, and adjusted for 1973 Alaska State survey.
 Flight line spacing and direction: 1 mile north-south. Flight elevation: 1000 feet above ground level. Year flown: 1974.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Talkeetna quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 19, 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: 1972.
- Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Talkeetna Mts. quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 20, 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: 1972.
- Andreasen, G.E., Grantz, Arthur, Zietz, Isidore, and Barnes, D.F., 1964, Geologic interpretation of magnetic and gravity data in the Copper River Basin, Alaska: U.S. Geol. Survey Prof. Paper 316-H, p. 135-153, scale 1:250,000, contour interval 20 gammas.
 also see: Andreasen, G.E., Dempsey, W.J., Henderson, J.R., and Gilbert, F.P., 1958, Aeromagnetic map of the Copper River Basin, Alaska: U.S. Geol. Survey Geophys. Inv. Map GP-156, scale 1:250,000, contour interval 20 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 north-south.
 Flight elevation: 4000 feet above sea level except locally where topography required higher flight elevations.
 Type of magnetometer: modified AN/ASQ-3A fluxgate.
 Year flown: 1954 and 1955.
- 10. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, northeast corner of Gulkana quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 12, 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 Jines. Flight elevation: 1000 feet above ground level.
 Type of magnetometer: fluxgate.
 Year flown: 1971.
- 11. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Nabesna quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 13, 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.
- 12. Alaska Division of Geological and Geophysical Surveys, 1973, Aeromagnetic map, Anchorage quadrangle, Alaska: Alaska Div. Geol. and Geophys. Surveys open-file report 21, 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, 1GRF 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: 1972.
- 13. Case, J.E., and MacKevett, E.M., Jr., 1976, Aeromagnetic map and geologic interpretation of aeromagnetic map, McCarthy quadrangle, Alaska: U.S. Geol. Survey Misc. Field Studies Map MF 773-D, 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 (1965), updated to 1975. Flight line spacing and direction: 1 mile north-south. Flight elevation: 1000 feet above ground level. Year flown: 1975.
- 14. Grantz, Arthur, Zietz, Isidore, and Andreasen, G.E., 1963, An aeromagnetic reconnaissance of the Cook Inlet area, Alaska: U.S. Geol. Survey Prof. Paper 316-G, p. 117-134, scale 1:500,000.
 Profile amplitude: 1/4 inch = 1000 gammas; index numbers are hundreds of gammas. Datum: arbitrary.
 Flight line spacing and direction: spacing variable between 2 and 16 miles east-west. Flight elevation: 2500 feet above sea level except locally where topography required higher flight elevations.
 Type of magnetometer: modified AN/ASQ-3A fluxgate.
- 15. U.S. Geological Survey, 1977, Aeromagnetic survey, parts of Seward and Blying Sound quadrangles, Alaska: unpublished data, scale 1:250,000, contour interval 5 gammas.

 Contour interval: 100 gammas; heavy contours are 500 gammas; numbers are hundreds of gammas.

 Datum: variable, IGRF removed (1965), updated to 1975.
 Flight line spacing and direction: 1 mile north-south with variably spaced east-west tie lines.
 Flight elevation: 1000 feet above ground level.
 Type of magnetometer: G-803 proton.
- U.S. Geological Survey, 1977, Aeromagnetic survey, parts of Cordova and Middleton Island quadrangles, Alaska: unpublished data, scale 1:250,000, contour interval 5 gammas.
 Contour interval: 100 gammas; heavy contours are 500 gammas; numbers are hundreds of gammas.
 Datum: variable, IGRF removed (1965), updated to 1975.
 Flight line spacing and direction: 1 mile north-south with variably spaced east-west tie lines.
 Type of magnetometer: G-803 proton.
 Year flown: 1975.





PRELIMINARY AEROMAGNETIC MAP OF THE EASTERN PART OF SOUTHERN ALASKA

COMPILED BY

JOHN DECKER AND SUSAN KARL

1977

SCALE 1:1 000 000

25 50 75