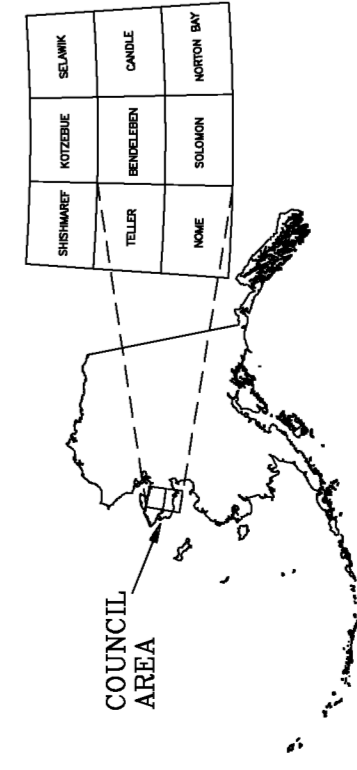


Section outlines from U.S. Geological Survey Bulletin C-4, 1965, C-5, 1972, Solomon, D-4, 1973, D-5, 1975, *Revised* Management Alaska



DESCRIPTIVE NOTES

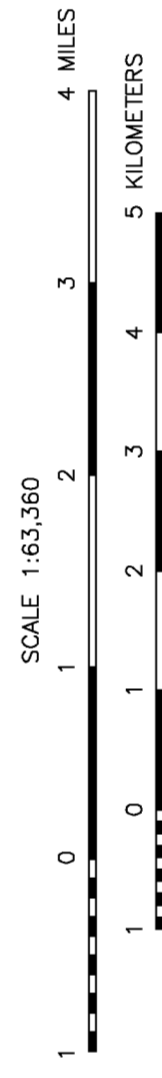
The geophysical data were acquired with a DigHEM[®] Electromagnetic (EM) system and a Schintrex cesium magnetometer. Both were flown at a height of 100 meters. The DigHEM system consists of a 50/50 Hz radar altimeter, GPS navigation system, 50/50 Hz magnetometer, and video camera. Flights were performed with a clearance of 200 feet along North-South (N-S) survey flight lines with a spacing of a quarter of a mile between flight lines at intervals of approximately 3 miles. An Ashtech GQ24 NAVSTAR / GLOMASS Global Positioning System was used for navigation. The helicopter position was derived every 0.5 seconds and the flight path was recorded every 0.5 seconds. The relative accuracy of better than 5 m. Flight path positions were projected onto the Clarke 1866 datum using a central meridian (CM) of 165°, a north constant of 0 and an east constant of 500,000. The datum used for this map is the UTM grid which is better than 10 m with respect to the UTM grid.

ELECTROMAGNETIC ANOMALIES

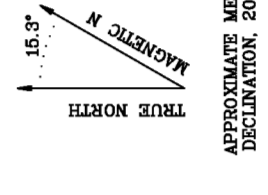
Anomaly
 ● >50 siemens
 ○ <50 siemens
 * Questionable anomaly
 ▲ Weak conductivity associated with an EM magnetic response

ELECTROMAGNETICS

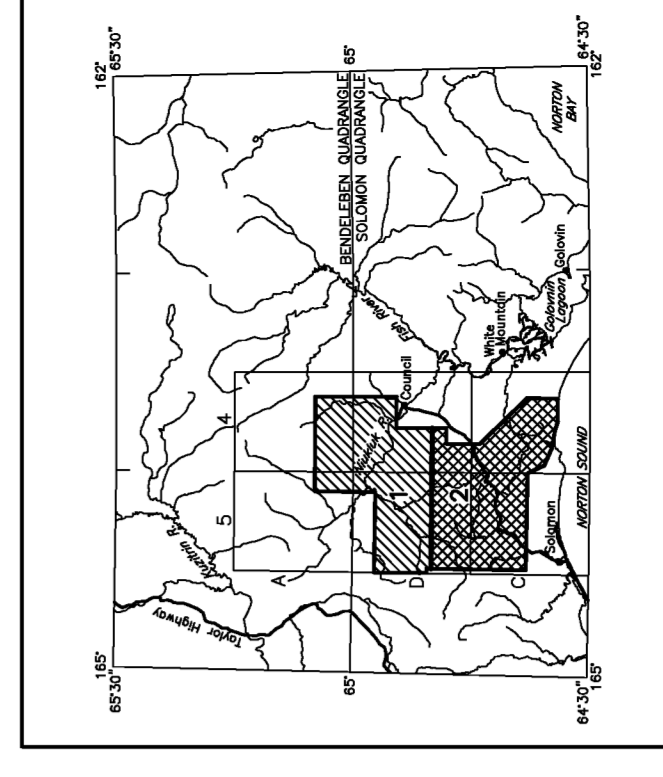
To determine the location of EM anomalies or their boundaries, the DigHEM EM system measured inphase and quadrature components at five frequencies: two vertical and three horizontal coplanar-coil pairs operated at 500, 7200, and 55,000 Hz. EM data were sampled at 0.1 second intervals. The data were processed to remove conductive overburden, and cultural sources. The power line monitor and the flight track video were examined to determine the location of anomalies that are indicated are classified by conductance.



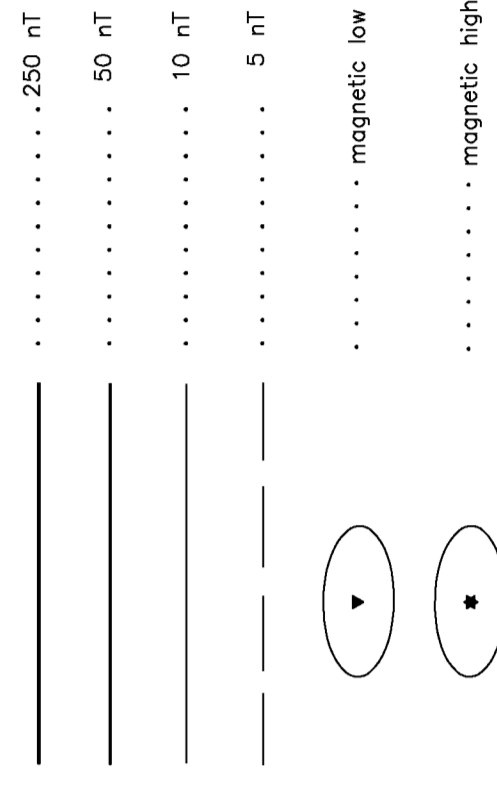
SCALE 1:63,360



LOCATION INDEX



MAGNETIC CONTOUR INTERVAL



TOTAL MAGNETIC FIELD

The total magnetic field data were acquired with a sampling interval of 0.5 seconds and a magnetic field strength of 0.5 nT. The data were the digitally recorded base station magnetic data, (2) leveled to the tie line data, and (3) interpolated to a 50 m grid. The regional variation (or GRF) (1970) technique. The regional variation (or GRF) gradient, 2000, updated to August 2002) was removed from the leveled magnetic data.

Adjusted to the International Geomagnetic Reference Field (IGRF) 2000, updated to August 2002, using the procedure described in the Association of Computing Machinery, v. 17, no. 4, p. 589-602.

SURVEY HISTORY
 This map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, Division of Geological and Geophysical Surveys (DGGS), and Stevens Exploration Management Corp. Airborne geophysical data for the area were acquired by Stevens Exploration Management Corp. in 1992. Laurel Burns was the contract manager for DGGS. This map and other products from this survey are available from the State of Alaska, Division of Geological and Geophysical Surveys, 734 University Ave., Suite 200, Fairbanks, Alaska, 99709.