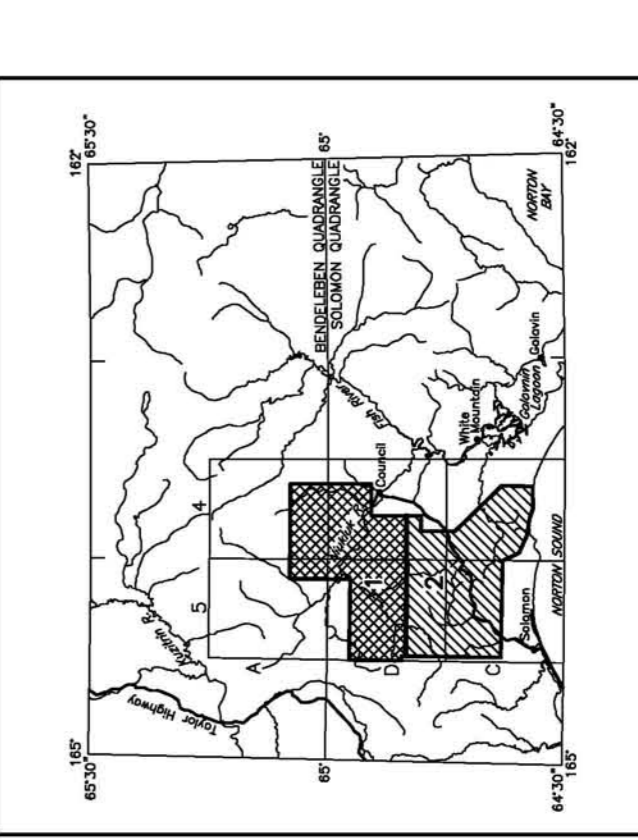


Section outline from U.S. Geological Survey Miscellaneous Publication 1-4, 1981, p. 5-10, 1981.
Sikoma 1-4, 1973, p. 1-1, 1973, Miscellaneous Publication 1-4, 1981, p. 5-10, 1981.



LOCATION INDEX



TOTAL MAGNETIC FIELD OF THE COUNCIL AREA, SEWARD PENINSULA, ALASKA PARTS OF BENELEBEN AND SOLOMON QUADRANGLES 2003

DESCRIPTIVE NOTES

The geophysical data were acquired with a DIGHEM V Electromagnetic (EM) system and a Scintrex cesium magnetometer. Both were flown at a height of 100 meters. The system was controlled by a Scintrex radar altimeter, GPS navigation system, 50/60 Hz magnetometer, and video camera. Flights were performed with a clearance of 200 feet along North-South and East-West flight lines with a spacing of a quarter of a mile. An Ashtech G24 NAVSTAR / GLONAVSS Global Positioning System was used for navigation. The helicopter position was derived every 0.5 seconds with a 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 is better than 10 m with respect to the UTM grid.

TOTAL MAGNETIC FIELD

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

From the leveled magnetic data, magnetic field intensity was derived using the procedure described in the Association of Computing Machinery, v. 17, no. 4, p. 589-602.

MAGNETIC CONTOUR INTERVAL

.....	250 nT
.....	50 nT
.....	10 nT
.....	5 nT

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 2003. Laurel Burns was the contract manager for DGGS.

This map and other products from this survey are available at the Alaska Division of Geological and Geophysical Surveys, Suite 200, Fairbanks, Alaska, 99703.

