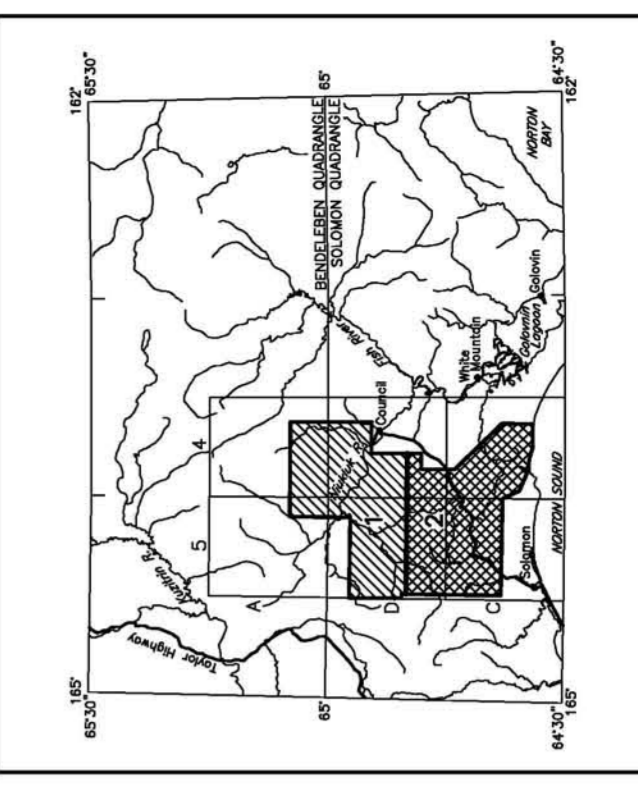


LOCATION INDEX



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

DESCRIPTIVE NOTES

The geophysical data were acquired with a DIGHEM Electromagnetic (EM) system and a Schrirek cesium magnetometer. Both were flown at a height of 100 meters. The DHEM 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 degree at intervals of approximately 3 miles. An Ashtech GQ24 NAVSTAR / GLOMSS 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 projection using a central meridian (CM) of 165°, a north constant of 0 and an east constant of 500,000. The map is projected to the UTM grid. The map is better than 10 m with respect to the UTM grid.

TOTAL MAGNETIC FIELD

The total magnetic field data were acquired with (1) a sampling interval of 0.5 seconds, and were (2) leveled to the local base station magnetic data, (3) leveled to the tie line data, and (4) interpolated to a 100 m grid. The regional variation (or IGRF (1970) technique. The regional variation (or IGRF gradient, 2000, updated to August 2002) was removed from the leveled magnetic data.
 Alaska Geophysical Survey, University of Alaska Fairbanks, Department of Geology and Geophysics, 900 University Ave., Fairbanks, Alaska 99775-1100.

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 (DGGG), and Stevens Exploration Management Corp. Airborne geophysical data for the area were acquired in 2003. The map was compiled by Laurell Burns, the contract manager for DGGG.
 This map and other products from this survey are available from the Alaska Geophysical Survey, Department of Natural Resources, 900 University Ave., Fairbanks, Alaska, 99775-1100.