

Section outlines from U.S. Geological Survey Section C-4, 1985, C-1, 1978, Solomon, D-M, 1973, B-S, 1973, Kusinuzugan, Alaska



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

2003
Sun Azimuth: 45 degrees
Inclination: 30 degrees

DESCRIPTIVE NOTES

The geophysical data were acquired with a DIGHEM Electromagnetic (EM) system and a Schintex 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 monitors 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 at intervals of approximately 3 miles. An AshTech G024 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. Relative accuracy of better than 5 m. Flight path positions were projected onto the Clarke 1866 datum. The map was produced using a north-south constant of 0 and an east constant of 500,000. The map is projected onto the UTM grid. The map is better than 10 m with respect to the UTM grid.

TOTAL MAGNETIC FIELD

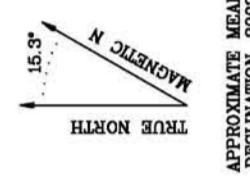
The total magnetic field data were acquired with (1) a sampling interval of 0.5 seconds, and were (2) leveled to the local magnetic field, and (3) interpolated to a 100 m grid. The regional variation (or IGRF (1970) technique. The regional variation (or IGRF gradient, 2000, updated to August 2002) was removed from the leveled magnetic data.

Altitude was derived from the National Geospatial Agency's Digital Elevation Model (DEM) of Computing Machinery, v. 17, no. 4, p. 89-90.

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 2002. Laurel Burns was the contract manager for DGGS.

This map and other products from this survey are available from the Alaska Division of Geological and Geophysical Surveys, 734 University Ave., Suite 200, Fairbanks, Alaska, 99709.



LOCATION INDEX

