



Section outline from U.S. Geological Survey Basecharts I-4, 1981; A-5, 1981; S-10, 1973; D-1, 1973; G-10, 1973; H-10, 1973; I-10, 1973; J-10, 1973; K-10, 1973; L-10, 1973; M-10, 1973; N-10, 1973; O-10, 1973; P-10, 1973; Q-10, 1973; R-10, 1973; S-10, 1973; T-10, 1973; U-10, 1973; V-10, 1973; W-10, 1973; X-10, 1973; Y-10, 1973; Z-10, 1973.

SCALE 1:63,360
 1 0 1 2 3 4 5 KILOMETERS
 1 0 1 2 3 4 MILES

LOCATION INDEX



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 V Electromagnetic (EM) system and a Scintrex cesium magnetometer. Both were flown at a height of 100 meters above the terrain. The system used a 50/60 Hz radar altimeter, GPS navigation system, 50/60 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. Flight lines at intervals of approximately 3 miles. An Ashtech G24 NAVSTAR / GLOWASS 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 used for this map 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.

Approved by the Alaska Division of Geological & Geophysical Surveys
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SURVEY HISTORY

This map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys (DGGSS), and Stevens Exploration Management Corp. Airborne geophysical data for the area were acquired during the 1990s by Stevens Exploration Management Corp. Laurel Burns was the contract manager for DGGSS.

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