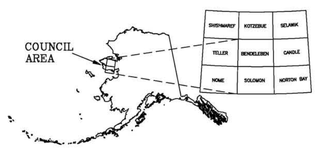
Section outlines from U.S. Geological Survey Solomon C–4, 1982; C–5 1973; Solomon D–4, 1973; D–5, 1973; Quadrangles, Alaska

SCALE 1:63,360

1 0 1 2 3 4 MILES

1 0 1 2 3 4 5 KILOMETERS



DIGITAL ELEVATION MODEL OF THE COUNCIL AREA, SEWARD PENINSULA, ALASKA

PARTS OF BENDELEBEN AND SOLOMON QUADRANGLES

2003

DESCRIPTIVE NOTES

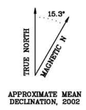
The geophysical data were acquired with a DIGHEM^V Electromagnetic (EM) system and a Scintrex cesium magnetometer. Both were flown at a height of 100 feet. In addition the survey recorded data from a radar altimeter, GPS navigation system, 50/60 Hz monitors and video camera. Flights were performed with an AS350B–2 Squirrel helicopter at a mean terrain clearance of 200 feet along North–South (0°) survey flight lines with a spacing of a quarter of a mile. Tie lines were flown perpendicular to the flight lines at intervals of approximately 3 miles.

An Ashtech GG24 NAVSTAR / GLONASS Global Positioning System was used for navigation. The helicopter position was derived every 0.5 seconds using post–flight differential positioning to a relative accuracy of better than 5 m. Flight path positions were projected onto the Clarke 1866 (UTM zone 3) spheroid, 1927 North American datum using a central meridian (CM) of 165°, a north constant of 0 and an east constant of 500,000. Positional accuracy of the presented data is better than 10 m with respect to the UTM grid.

DIGITAL ELEVATION MODEL

This Digital Elevation Model (DEM) has been computed from GPS 'Z' values minus the aircraft altimeter data recorded during the course of a helicopter–borne geophysical survey flown at a nominal line spacing of a quarter of a mile, azimuth 0 degrees. Elevation values have been interpolated/gridded between survey lines. Every effort has been made to make the model a useful general reference. No guarantee can be made that this model is a true representation of the height above sea level and it may contain radar altimeter responses from buildings and in some instances dense timber. Users of the product should be aware of the topographic limitations mapped herewithin.

DO NOT USE THIS MAP FOR NAVIGATION PURPOSES



APPROXIMATE MEAN DECLINATION, 2002

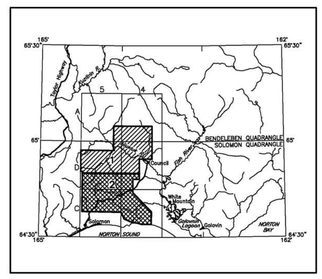
DIGITAL ELEVATION CONTOURS

250 feet

100 feet

50 feet

LOCATION INDEX



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 (DGGS), and Stevens Exploration Management Corp. Airborne geophysical data for the area were acquired and processed by Fugro Airborne Surveys in 2002. Laurel Burns was the contract manager for DGGS.

This map and other products from this survey are available by mail order or in person from DGGS, 794 University Ave., Suite 200, Fairbanks, Alaska, 99709.