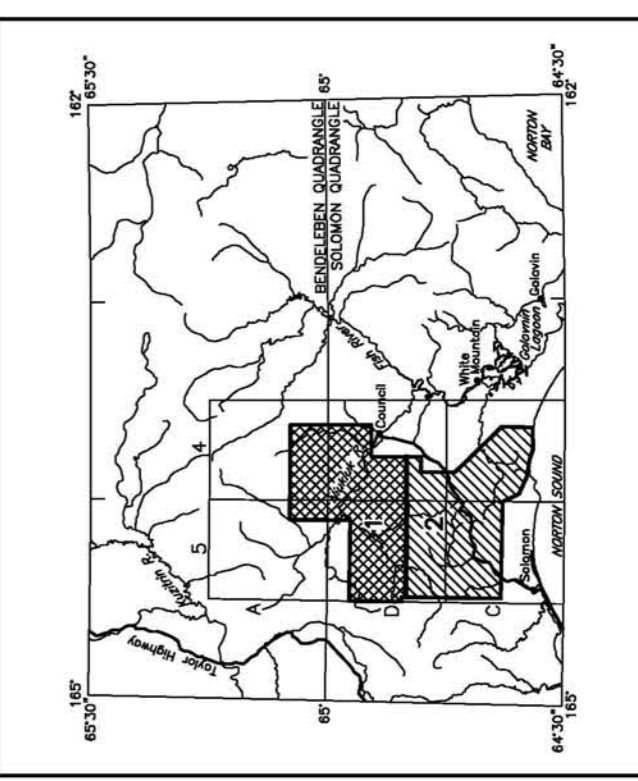


LOCATION INDEX



## DIGITAL ELEVATION MODEL OF THE COUNCIL AREA, SEWARD PENINSULA, ALASKA PARTS OF BENDELEBEN AND SOLOMON QUADRANGLES

2003

**DESCRIPTIVE NOTES**

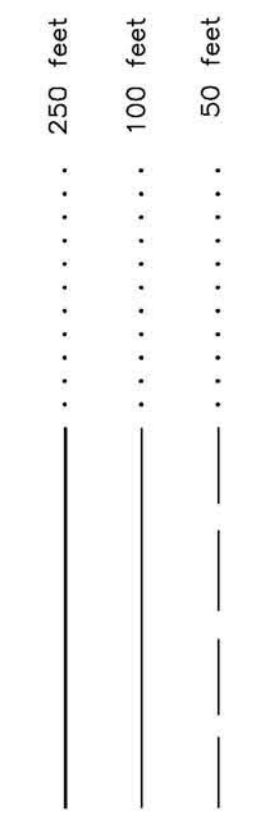
The geophysical data were acquired with a DIGHEM V Electromagnetic (EM) system and a Scintrex cesium magnetometer. Both were flown at a height of 100 meters. The flight was controlled by a Scintrex radar altimeter, GPS navigation system, 50/60 Hz meters and video camera. Flights were performed with a clearance of 200 feet along North-South (N-S) survey flight lines with a spacing of a quarter of 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 UTM. UTM 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 survey. The altimeter data were corrected for a quarter of a mile, azimuth 0 degrees. Elevation values have been interpolated/gridded between survey lines. The resulting DEM is a true representation of the height above sea level. The DEM does not contain radars or timber. Users of the product should be aware of the topographic limitations mapped herewith.

**DO NOT USE THIS MAP FOR NAVIGATION PURPOSES**

**DIGITAL ELEVATION CONTOURS**



**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 during the 1990s. The map was prepared by Laurel Burns who was the contract manager for DGGS.

This map and other products from this survey are available from the State of Alaska, Department of Natural Resources, 794 University Ave., Suite 200, Fairbanks, Alaska, 99709.