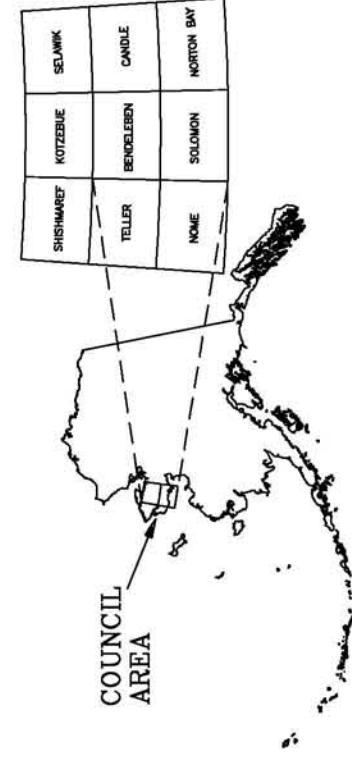


Base from U.S. Geological Survey Solomon C-4, 1982; C-5 1973; Solomon D-4 1972; K-5 1972. Quadrangles: Alotia

Base from U.S. Geological Survey Solomon C-4, 1982; C-5 1973; Solomon D-4 1972; K-5 1972. Quadrangles: Alotia



DESCRIPTIVE NOTES

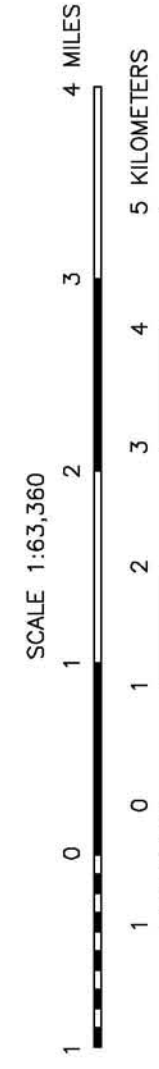
The geophysical data were acquired with a DIGHEX Electromagnetic (EM) system and a Sintrex cesium magnetometer. Both were flown at a height of 100 m above the ground surface. The EM system was a 60-m radiometer, GPS navigation system, 50/60 Hz power supply, and video camera. Flights were performed with flight lines spaced at intervals of approximately 3 miles, clearance of 200 feet along North-South (N-S), and survey flight lines with a spacing of a quarter of a mile between flight lines. The N-S flight lines were flown first at intervals of approximately 3 miles.

An Aethetx G024 NAVSTAR / NOVATION Global Positioning System was used for navigation. The helicopter position was derived every 0.5 seconds during the flight. The horizontal accuracy was better than 5 m. Flight paths were projected onto the Clarke 1866 projection, UTM zone 18Q, datum WGS 84, using central meridian (CW) of 195° north constant of 0 and an east constant of 500,000. Positional coordinates are presented as northing and easting values. The resolution of the data is better than 1 m.

RESISTIVITY

The DIGHEW EM system measured inphase and quadrature voltages from 1000 and 5500 Hz, while three coil pairs operated at 1000 and 5500 Hz, 7200 and 1000 Hz, and 5500 and 7200 Hz. The three in-phase coplanar-coil pairs operated at 900, 7200, and 56,000 Hz. EM data were sampled at 0.1 second intervals. The EM system responds to bedrock conductors, conductive overburden, and cultural sources. Apparent resistivity is calculated from the EM data using the pseudo-layer half space model (Foster 1978) using the pseudo-layer half space model (Foster 1978). The data were interpolated onto a regular 100 m grid using a modified Akima (1970) technique.

2003



SCALE 1:63,360

CONTOUR INTERVAL 50 FEET

CONTOUR INTERVAL 50 FEET



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. (DGGS) geophysical data for the area were acquired Airborne geophysical data for the area were acquired and processed by Fugro Airborne Surveys in 2002.

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