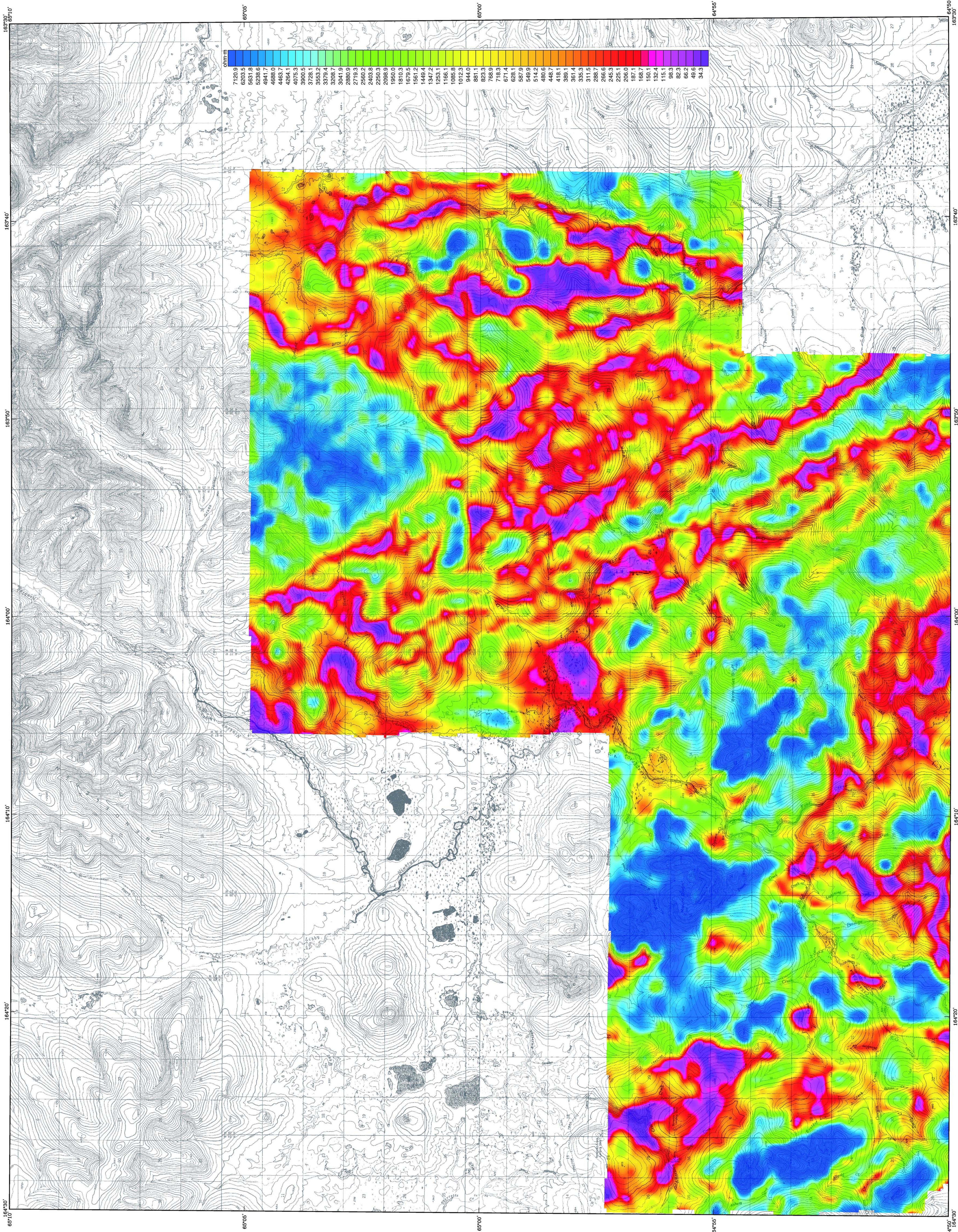
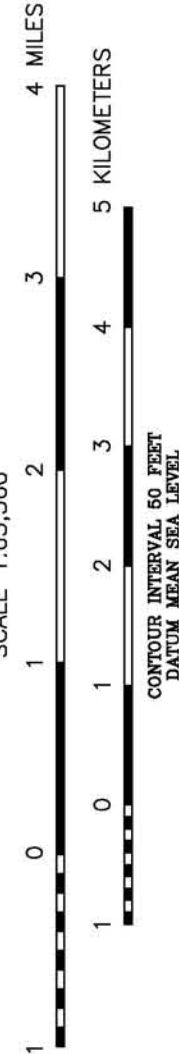
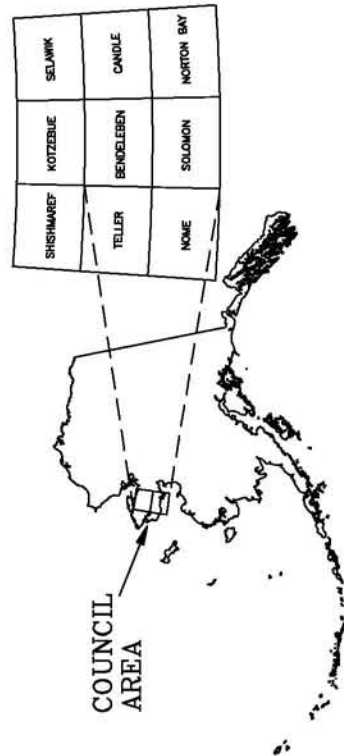
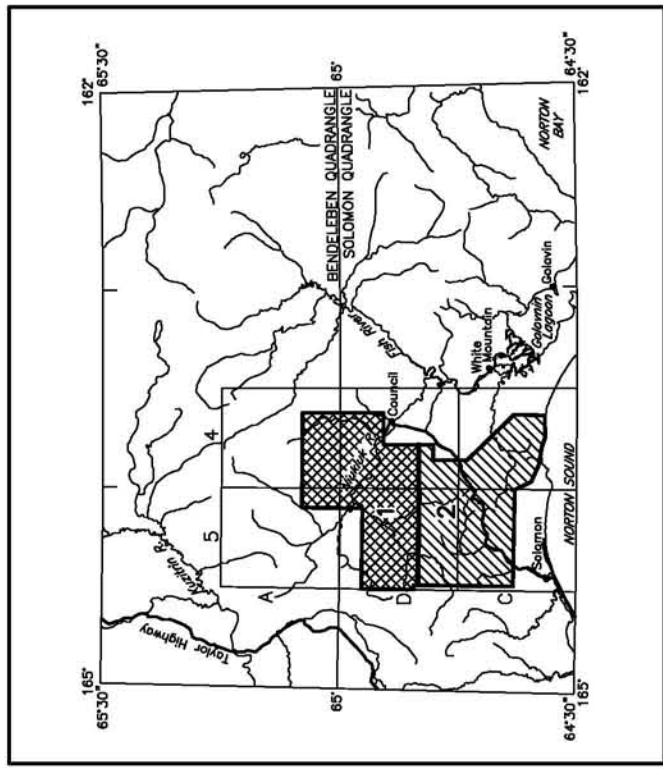




Data from U.S. Geological Survey: Randolphe A-4, 1961; A-5, 1961; Bismuth B-4, 1973; B-5, 1973; Randolphe, Alaska



LOCATION INDEX



7200 Hz COPLANAR RESISTIVITY OF THE COUNCIL AREA, SEWARD PENINSULA, ALASKA PARTS OF BENDELEBEN AND SOLOMON QUADRANGLES

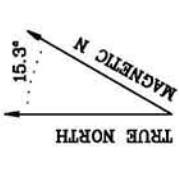
2003

DESCRIPTIVE NOTES

The geophysical data were acquired with a DIGHEM[®] Electromagnetic (EM) system and a Scintrex cesium magnetometer. Both were flown at a height of 100 meters. The data were collected using a 50/60 Hz radar altimeter, GPS navigation system, 50/60 Hz magnetometer, and video camera. Flights were performed with a constant altitude of 100 meters. The flight path was a series of parallel lines with a spacing of 200 feet along North-South (0°) and East-West (90°) 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 the map is the UTM datum with a scale factor of 0.999 999 97 and a false easting of 500,000 m with respect to the UTM grid.

RESISTIVITY

The DIGHEM[®] EM system measured inphase and quadrature components of the magnetic field. The system consists of a horizontal coplanar-coil pair operated at 900, 7200, and 5500 Hz. The system was flown at a constant altitude of 100 meters. The EM system responds to bedrock conductors, conductive overburden, and cultural sources. Apparent resistivity is derived from the inphase and quadrature components of the magnetic field. The data were interpolated onto a regular 100 m grid using a modified Alma (1970) technique. Alma, H., 1970. A new method of interpolation and smooth curve fitting. *Computing Machinery*, v. 17, no. 4, p. 559-602. Fraser, S.G., 1973. *Geophysical Surveying with the Electromagnetic System*. *Geophysical Surveying*, v. 4, p. 1-122.



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 1973. 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, 394 University Ave., Suite 200, Fairbanks, Alaska, 99709.