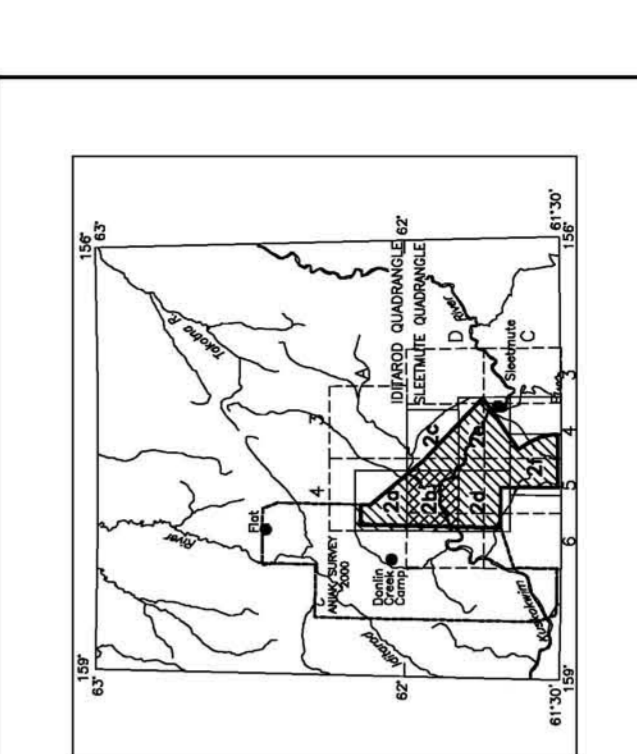


Scale: 1:31,680
 0.5 1 1.5 2 MILES
 0.5 1 1.5 2 2.5 KILOMETERS
 Contour Interval 100 Feet
 Datum: Mean Sea Level

LOCATION INDEX FOR SCALE 1:31,680



TOTAL MAGNETIC FIELD AND DETAILED ELECTROMAGNETIC ANOMALIES OF THE SLEETMUTE AREA, SOUTHWESTERN ALASKA PARTS OF SLEETMUTE D-5 AND D-6 QUADRANGLES 2003

DESCRIPTIVE NOTES
 The geophysical data were collected with a DIGHEM[®] Electromagnetic (EM) system and a Sinterex casium magnetometer. Both were flown at a height of 100 feet. In addition, GPS surveys were recorded at 50/60 Hz monitors and video camera. Flights were performed with an AS350B-2 Squirrel helicopter at a mean terrain survey flight lines with a spacing of a quarter of a mile. Tie lines were flown perpendicular to the main survey lines and flight line direction. The instrumentation and flight line direction, altitude, and spacing used for the Aniak survey (2000) were similar to the current survey. An Ashtech GG24 NAVSTAR / GLONASS Global Positioning System was used for navigation. The flight lines were spaced at 100 m. Flight path using post-flight differential positioning to a relative accuracy of better than 5 m. Flight path using a central meridian (CM) of 159° or 160° (UTM zone 43) spheroid, 1927 North American datum using a central meridian (CM) of 159° or 160° datum. Positional accuracy of the presented data is better than 10 m with respect to the UTM grid.

ELECTROMAGNETIC ANOMALIES

Anomaly	Conductance
●	>100 siemens
○	50-100 siemens
○	10-50 siemens
○	5-10 siemens
○	1-5 siemens
○	<1 siemens
○	Questionable anomaly
△	EM magnetic response

Interpretive symbol	Interpretive symbol
Area indicate the thickness >10m	Interpretive symbol
Magnetic correlation	Interpretive symbol
Dip direction	Interpretive symbol
Depth is greater than 15 m	Interpretive symbol
30 m	Interpretive symbol
60 m	Interpretive symbol
10 ppm	Interpretive symbol
15 ppm	Interpretive symbol
20 ppm	Interpretive symbol

ELECTROMAGNETICS
 To determine the location of EM anomalies or their boundaries, the DIGHEM EM system measured inphase and three horizontal coplanar-coil pairs operated at 900, 7200, and 57000 Hz. The EM system responds to bedrock conductors and cultural sources. The type of conductor is indicated on the aeromagnetic map by the shape of the coil- and coplanar-coil responses, together with the EM magnetic response. The EM system also uses a power line monitor and the flight track video were examined to locate cultural sources.

TOTAL MAGNETIC FIELD
 The total magnetic field data were acquired with a sampling interval of 0.1 seconds, and were the digitally recorded base station magnetic data, (2) leveled to the tie line data, and (3) interpolated to a 100 m grid. The regional variation (or IGRF (1970) technique. The regional variation was removed from the leveled magnetic data.

MAGNETIC CONTOUR INTERVAL

.....	100 nt
.....	20 nt
.....	4 nt
.....	2 nt
.....	magnetic low
.....	magnetic high

SURVEY HISTORY
 This map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, and Stevens Exploration Management Corp. (SEGSC), and Stevens Exploration Management Corp. (SEGSC). Funding for the project was provided by the U.S. Department of the Interior, Bureau of Land Management, western edge of the survey area was flown by Fugro Airborne Surveys in 2000, funded by BLM, and published by DGGSS. Laurel Burns was the map and other products from this survey are available by mail order or in person from DGGSS, 794 University Ave., Suite 200, Fairbanks, Alaska, 99709. Some products are available from the Alaska Division of Geological & Geophysical Information Center, 100 Svatkva Road, Douglas, Alaska, 99824.