

Basis from U.S. Geological Survey Mapped B-3, 1987; B-4, 1984; B-5, 1954;  
C-3, 1954; C-4, 1954; C-5, 1975; Quadrangle, Alaska.

SCALE 1:31,680

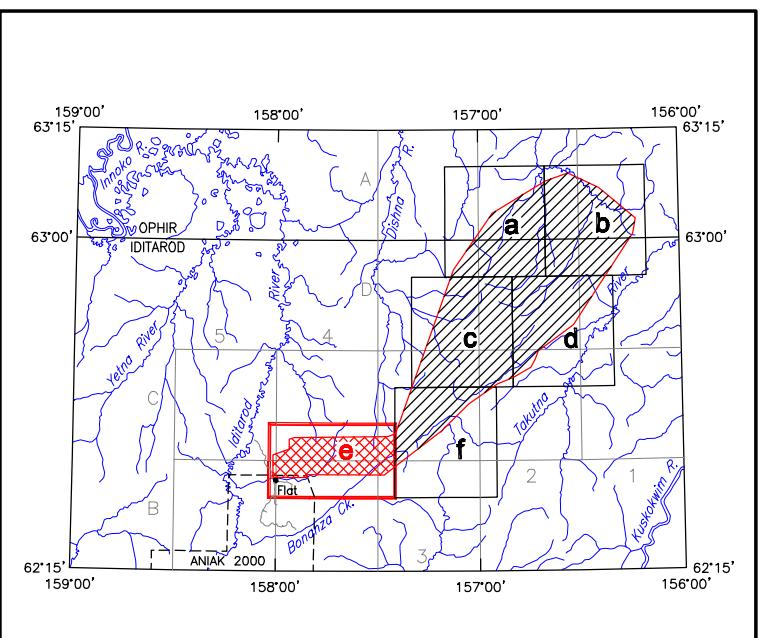
CONTOUR INTERVAL 100 FEET

DATUM MEAN SEA LEVEL

0.5 0 0.5 1 1.5 2 MILES

0.5 0 0.5 1 1.5 2.5 KILOMETERS

LOCATION INDEX FOR 1:31,680



## RESIDUAL MAGNETIC FIELD AND DETAILED ELECTROMAGNETIC ANOMALIES OF THE IDITAROD SURVEY AREA, INNOKO, IDITAROD, and McGRAH MINING DISTRICTS, WESTERN ALASKA

PARTS OF IDITAROD B-3, B-4, B-5, C-3, C-4, and C-5 QUADRANGLES  
by  
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### DESCRIPTIVE NOTES

The geophysical data were acquired with a GDEM4 EM system using a Fugro D1344 cesium magnetometer with a Scintrex CS3 cesium sensor. The EM and magnetic sensors were flown simultaneously. The survey was conducted in the survey recorded data from radar and laser altimeters, GPS navigation system, 50/60 Hz motion reference system, and attitude system were performed with an AS-350-B3 Squirrel helicopter at a mean terrain clearance of 200 feet above ground level. Tie lines were flown at a spacing of a quarter of a mile. Tie lines were flown perpendicular to the flight lines at a spacing of approximately 1/4 mile.

A Novatel OEM4-G2L Global Positioning System was used for navigation. The helicopter position was derived every 0.5 seconds using post-flight difference in position and orientation better than 5m. Flight path positions were projected onto the Clarke 1866 (UTM zone 4) spherical coordinate system, with the central meridian (CM) of 159°, a north constant of 0 and an east constant of 500,000. Positional accuracy of the presented data is better than 10m with respect to the UTM grid.

### ELECTROMAGNETIC ANOMALIES

#### Anomaly

Conductance

>100 siemens

50-100 siemens

20-50 siemens

10-20 siemens

5-10 siemens

1-5 siemens

< 1 siemens

Questionable anomaly

\* EM magnetic response

Conductance

Culture

Interpretive symbol

B Bedrock conductor

D Narrow bedrock conductor

"Thin skin"

C Conductive cover

H Broad conductive rock unit,

deep conductive rock unit,

Thick conductive cover

"Half space"

E Edge of broad conductor

C Culture feature, low-

metal building or fence

M Magnetic

Indicates some uncertainty as to

the most appropriate EM source

model, but does not question the

validity of the EM anomaly.

#### Anomaly identifier

C1a

Interpretive symbol

C1b

Interpretive symbol

C1c

Interpretive symbol

C1d

Interpretive symbol

C1e

Interpretive symbol

C1f

Interpretive symbol

C1g

Interpretive symbol

C1h

Interpretive symbol

C1i

Interpretive symbol

C1j

Interpretive symbol

C1k

Interpretive symbol

C1l

Interpretive symbol

C1m

Interpretive symbol

C1n

Interpretive symbol

C1o

Interpretive symbol

C1p

Interpretive symbol

C1q

Interpretive symbol

C1r

Interpretive symbol

C1s

Interpretive symbol

C1t

Interpretive symbol

C1u

Interpretive symbol

C1v

Interpretive symbol

C1w

Interpretive symbol

C1x

Interpretive symbol

C1y

Interpretive symbol

C1z

Interpretive symbol

C1aa

Interpretive symbol

C1ab

Interpretive symbol

C1ac

Interpretive symbol

C1ad

Interpretive symbol

C1ae

Interpretive symbol

C1af

Interpretive symbol

C1ag

Interpretive symbol

C1ah

Interpretive symbol

C1ai

Interpretive symbol

C1aj

Interpretive symbol

C1ak

Interpretive symbol

C1al

Interpretive symbol

C1am

Interpretive symbol

C1an

Interpretive symbol

C1ao

Interpretive symbol

C1ap

Interpretive symbol

C1aq

Interpretive symbol

C1ar

Interpretive symbol

C1as

Interpretive symbol

C1at

Interpretive symbol

C1au

Interpretive symbol

C1av

Interpretive symbol

C1aw

Interpretive symbol

C1ax

Interpretive symbol

C1ay

Interpretive symbol

C1az

Interpretive symbol

C1ba

Interpretive symbol

C1bb

Interpretive symbol

C1bc

Interpretive symbol

C1bd

Interpretive symbol

C1be

Interpretive symbol

C1bf

Interpretive symbol

C1bg

Interpretive symbol

C1bh

Interpretive symbol

C1bi

Interpretive symbol

C1bj

Interpretive symbol

C1bk

Interpretive symbol

C1bl

Interpretive symbol

C1bm

Interpretive symbol

C1bn

Interpretive symbol

C1bo

Interpretive