DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING AND GEOLOGICAL AND GEOPHYSICAL SURVEYS

GEOPHYSICAL INVESTIGATIONS
MAP GP-992 (SHEET 2 OF 2)

Nolan
Wiseman
Big Lake
Chandalar
Venetie
Shuman Lease
Joe Ward Camp
Chalkyitsik
ARCTIC CIRCLE
Fort Yukon
Beaver
Stevens Village
Marion L.
Circle
Central
Miller House
Circle Hot Springs
Coal Creek
Woodchopper Creek
Livengood
Rampart
Eureka
Tofty
Woodchopper
Manley Hot Springs
Chatanika
Olnes
Cleary Summit
Chena Hot Springs

EXPLANATION
NANOTESLAS

52000
51000
50750
50650
50550
50500
50450
50425
50400
50375
50350
50325
50300
50275
50262.5
50250
50237.5
50225
50212.5
50200
50187.5
50175
50150
50125
50100
50075
50050
50025
50000
49975
49750
49500

SCALE 1:500 000

Base from U.S. Geological Survey
National Atlas 1:2,000,000, 1967
Revised 1973
Albers Equal-Area Projection

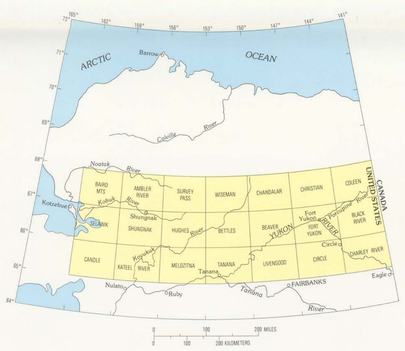

Figure 1. Index showing location of aeromagnetic map and 1:250,000-scale, 1° × 3° quadrangles in the area.

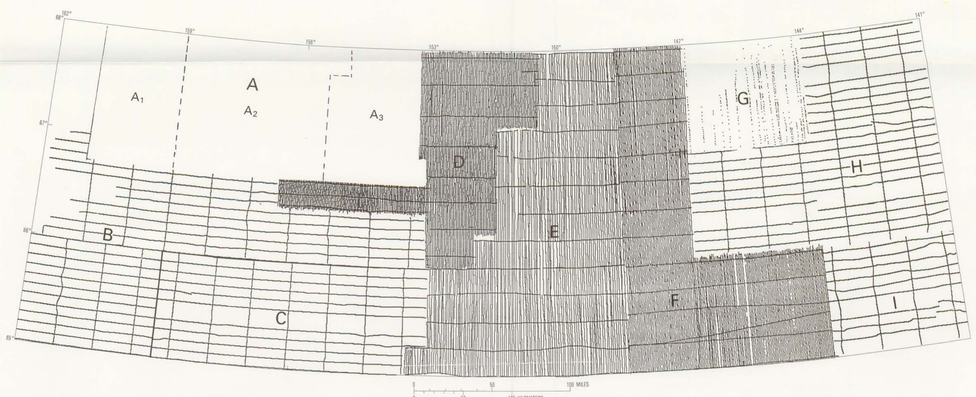

Figure 2. Index showing flight lines used to obtain aeromagnetic data. See table 1 for details. Flight lines are not shown in area A because the data were digitized by hand from a contour map and flight lines were not digitally available.

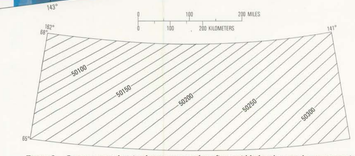

Figure 3. Contour map showing least-squares plane fit to gridded and merged aeromagnetic data, using program SURFIT (unpublished computer documentation, M. Webring and R. Wahl). Contour interval 10 nT. Slope of plane is +0.20044572 nT/km north, −0.261054225 nT/km east.

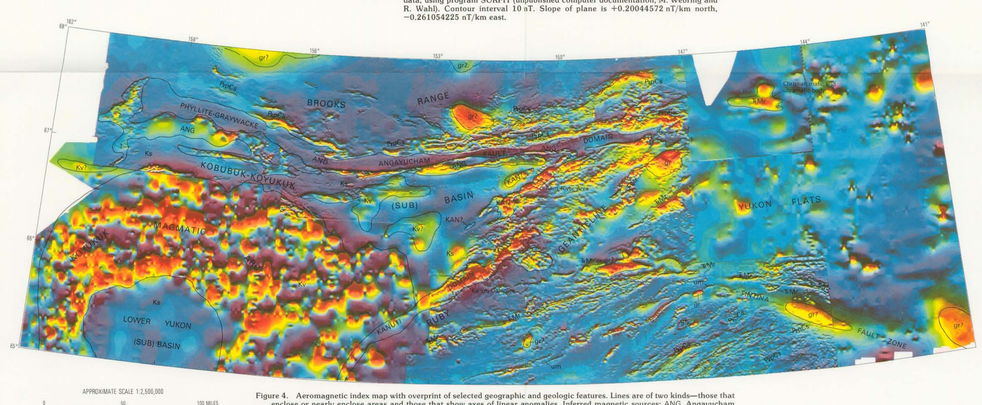

Figure 4. Aeromagnetic index map with overprint of selected geographic and geologic features. Lines are of two kinds—those that enclose or nearly enclose areas and those that show axes of linear anomalies. Inferred magnetic sources: ANG, Angayucham terrane; KAN, Kanuti geophysical domain of Cady (1989); Kv, Cretaceous andesite of Yukon-Koyukuk province; Ks, Cretaceous overlay assemblages; gr, magnetic granitoid pluton; ₹Mr, layered gabbro and minor peridotite of the Mississippian to Triassic(?) Rampart Group; ₱₽Cs, schist; um, selected ultramafic rocks.

AEROMAGNETIC MAP OF ALASKA FROM LATITUDE 65°–68° N., LONGITUDE 141°–162° W.: COLOR-SHADED RELIEF

By
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1991