

EXPLANATION
MAGNETIC LINEAMENTS

— Readily apparent (clear) expression
 - - - Interrupted expression
 - - - - Vague expression
 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ Probable extension
 - - - - - Approximate boundary of major magnetic terrane

Criteria for recognizing aeromagnetic lineaments:

1. Change in magnetic gradient
2. Termination of magnetic highs or lows
3. Linear patterns of magnetic contours
4. Selected alignments of magnetic highs or lows or combinations of 1-3

ANOMALY TRENDS

○ ○ ○ ○ ○ Alignment axis of major magnetic highs
 ⊗ ⊗ ⊗ ⊗ Alignment axis of major magnetic lows
 — ◆ — Axis of broad magnetic highs
 — ▼ — Axis of broad magnetic lows
 - - - - - Broken where inferred
 — ? — ? Queried where doubtful

Note: "TOPO" indicates that some components may be partly caused by topographic relief.

EXPLANATION FOR GENERALIZED GEOLOGIC MAP
 (Geology generalized from Pessel and Brosge, 1977; Mayfield and Tailleux, 1978)

CORRELATION OF MAP UNITS

SURFICIAL DEPOSITS
 Qu QUATERNARY

SEDIMENTARY AND METASEDIMENTARY ROCKS
 Kc CRETACEOUS
 M MISSISSIPPIAN
 Dn DEVONIAN
 Dv DEVONIAN AND OLDER

METASEDIMENTARY ROCKS OF UNCERTAIN AGE
 Pz PALEOZOIC
 Pz1 PALEOZOIC AND OLDER (1)
 Pz2 PALEOZOIC AND OLDER (2)
 Pz3 PALEOZOIC AND OLDER (3)

IGNEOUS AND META-IGNEOUS ROCKS
 Kz KRYPTOKRATONIC
 J JURASSIC
 M Mesozoic or Paleozoic
 P Paleozoic
 I IGNEOUS AND META-IGNEOUS ROCKS

DESCRIPTION OF MAP UNITS

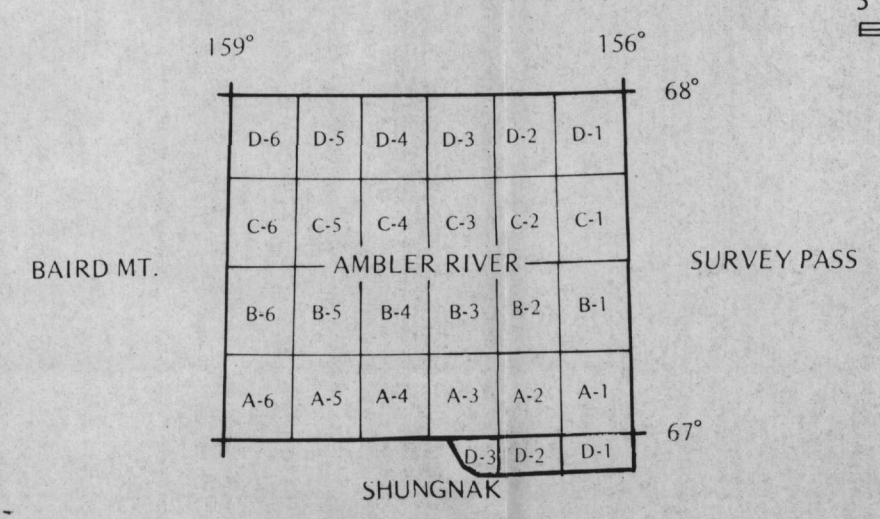
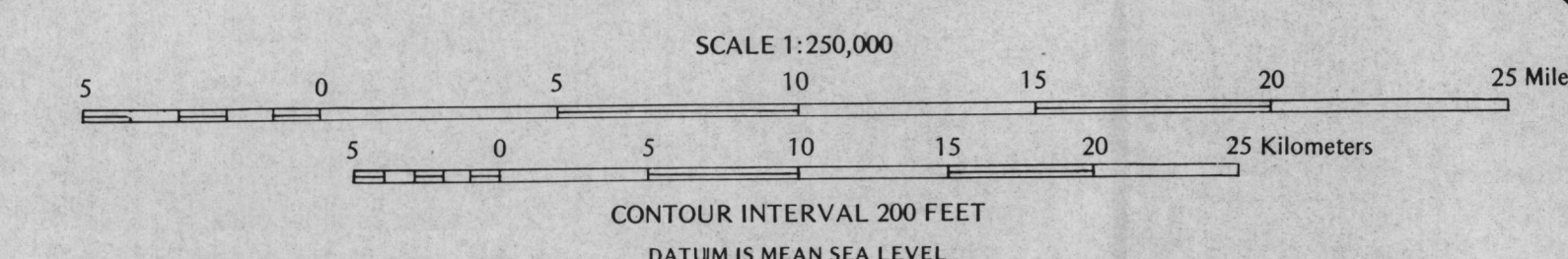
SURFICIAL DEPOSITS
 Qu UNCONSOLIDATED SURFICIAL DEPOSITS (QUATERNARY)

SEDIMENTARY AND METASEDIMENTARY ROCKS
 Kc QUARTZ CONGLOMERATE, SANDSTONE, AND WOODSTONE (CRETACEOUS)
 M IGNEOUS PEBBLE-COBBLE CONGLOMERATE (CRETACEOUS)
 M Lorraine Group and upper part of Endcott Group (MISSISSIPPIAN)—INCLUDES KAYAK SHALE AND SEVITIK CONGLOMERATE
 Dn LOWER PART OF ENDCOTT GROUP (DEVONIAN)—MARLY SLATE AND SANDSTONE
 Dv DARK CALCAREOUS SCHIST, LIMESTONE, AND SILICEOUS PHYLLITE (DEVONIAN)
 Pz LIMESTONE AND MARBLE (DEVONIAN AND OLDER)

METASEDIMENTARY ROCKS OF UNCERTAIN AGE
 Pz1 PHYLLITE AND MARLE VOLCANIC WACKE (MESOZOIC OR PALEOZOIC)
 Pz2 CHLORITIC QUARTZITE AND SCHIST (PALEOZOIC)—LOCALLY INCLUDES FELDSPATHIC ORTHOQUARTZ
 Pz3 GRAPHITIC PHYLLITE AND SCHIST (PALEOZOIC)
 Pz4 UNDIFFERENTIATED METAMORPHIC ROCKS (PALEOZOIC)—INCLUDES MARBLE, QUARTZITE, CALC-SCHIST, AND LEGER QUARTZ-WACK SCHIST
 Pz5 UNDIFFERENTIATED METAMORPHIC ROCKS (PALEOZOIC)—INCLUDES MARBLE, QUARTZITE, CALC-SCHIST, AND LEGER QUARTZ-WACK SCHIST
 Pz6 GRAY PHYLLITE AND QUARTZ-WACK SCHIST (PALEOZOIC AND OLDER (1))
 Pz7 IGNEOUS AND META-IGNEOUS ROCKS
 Kz META-GRANITIC PLUTONIC ROCKS (CRETACEOUS OR PALEOZOIC)
 J ULTRAMAFIC ROCKS AND SERPENTINITE (JURASSIC)
 M BASALT, DIABASE, AND GREENSTONE (MESOZOIC AND/OR PALEOZOIC)
 I FELSIC SCHIST (MESOZOIC AND/OR PALEOZOIC) MAY BE, IN PART, VOLCANIC
 Pz INTERMEDIATE META-IGNEOUS ROCKS (MESOZOIC AND/OR PALEOZOIC) MAY BE PLUTONIC AND ION VOLCANIC, MOSTLY GRANODIORITE OR QUARTZ DIORITE IN COMPOSITION

SYMBOLS
 — LITHOLOGIC CONTACT, dashed where uncertain
 - - - HIGH ANGLE FAULT, dashed where uncertain, dotted where concealed
 - - - - - THRUST FAULT, dotted where concealed

Base from U.S. Geological Survey
 1:250,000 Topographic Series, 1956

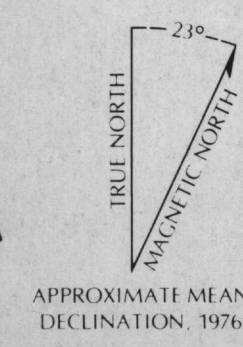
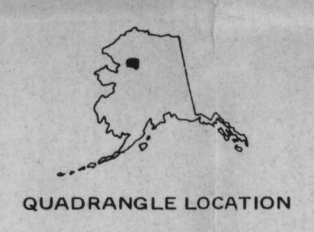


MAGNETIC LINEAMENT AND ANOMALY TREND MAP
AEROMAGNETIC INTERPRETATION MAPS OF THE AMBLER RIVER QUADRANGLE, ALASKA

by Steve W. Hackett

State of Alaska, Department of Natural Resources
 Division of Geological and Geophysical Surveys

1980



Background information for this folio is published as U.S. Geological Survey Circular 793, available free of charge from the U.S. Geological Survey, Reston, VA 22092.

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