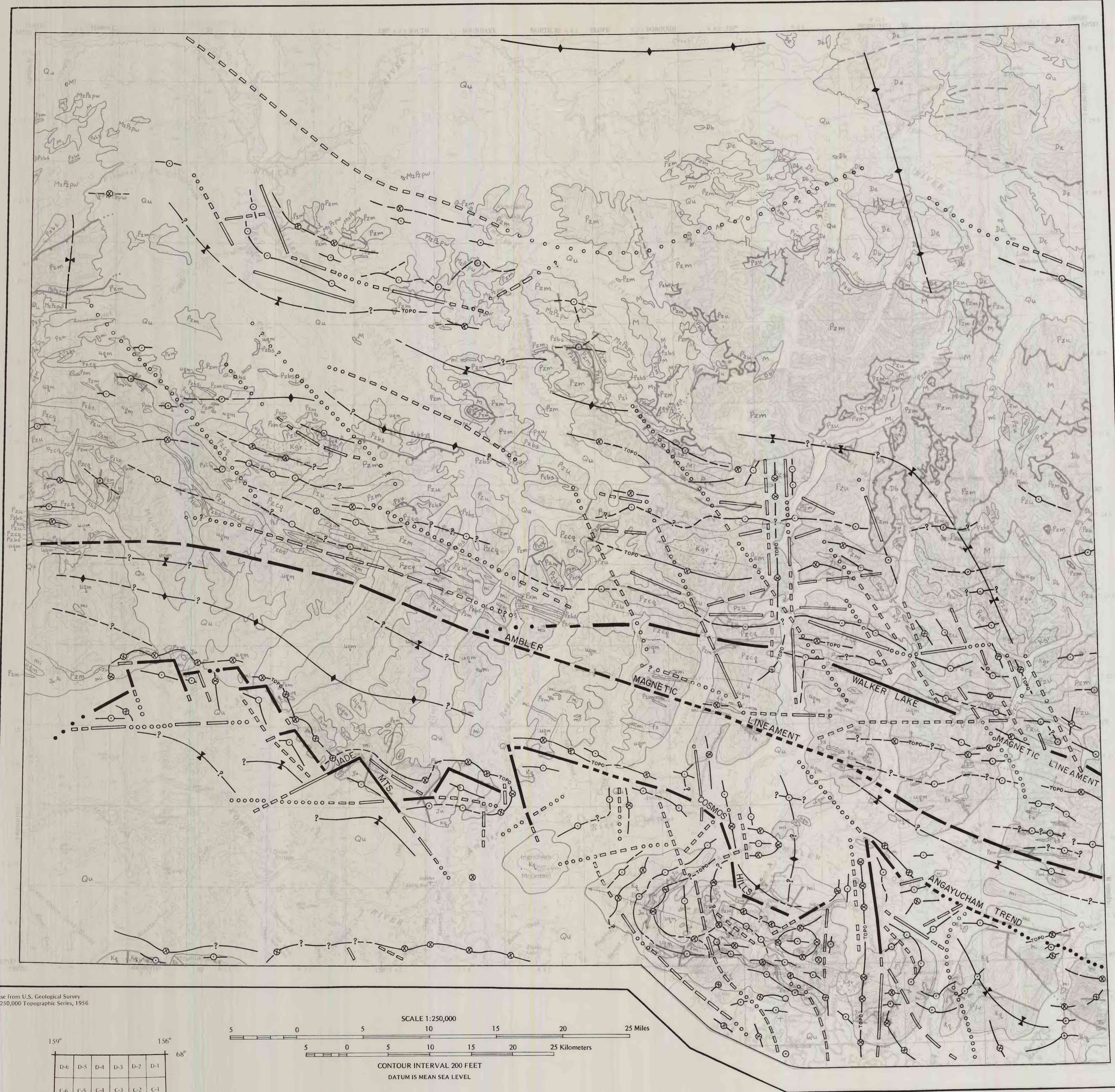


DEPARTMENT OF THE INTERIOR
 UNITED STATES GEOLOGICAL SURVEY

Hackett- LINEAMENT AND ANOMALY MAP



- 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 Pessell and Brosgé, 1977; Mayfield and Taillour, 1978)

CORRELATION OF MAP UNITS

SEDIMENTARY AND METASEDIMENTARY ROCKS	METASEDIMENTARY ROCKS OF UNCERTAIN AGE	IGNEOUS AND META-IGNEOUS ROCKS (CRETACEOUS OR PALEOZOIC)
Kq	MePzp	Kgr
Kc		
M	Pzcq	Ju
De		Pzb
Db	Pzu	Pst
Pem	uqm	

DESCRIPTION OF MAP UNITS

SURFICIAL DEPOSITS

Qu UNCONSOLIDATED SURFICIAL DEPOSITS (QUATERNARY)

SEDIMENTARY AND METASEDIMENTARY ROCKS

Kq QUARTZ CONGLOMERATE, SANDSTONE, AND MUDSTONE (CRETACEOUS)

Kc IGNEOUS PEBBLE-COBBLE CONGLOMERATE (CRETACEOUS)

M LISIENSIS GROUP AND UPPER PART OF ENDICOTT GROUP (MISSISSIPPIAN)—INCLUDES KAYAK SHALE AND KERITUK CONGLOMERATE

De LOWER PART OF ENDICOTT GROUP (DEVONIAN)—MAINLY SLATE AND SANDSTONE

Db DARK CALCAREOUS SCHIST, LIMESTONE, AND SILICEOUS PHYLLITE (DEVONIAN)

Pem LIMESTONE AND MARBLE (DEVONIAN AND OLDER)

METASEDIMENTARY ROCKS OF UNCERTAIN AGE

MePzp PHYLLITE AND MAFIC VOLCANIC WACKE (MESOZOIC OR PALEOZOIC)

Pzcq CHLORITIC QUARTZITE AND SCHIST (PALEOZOIC)—LOCALLY INCLUDES FELDSPATHIC ORTHOQUARTZ

Pzb GRAPHITIC PHYLLITE AND SCHIST (PALEOZOIC)

Pzu UNDIFFERENTIATED METAMORPHIC ROCKS (PALEOZOIC)—INCLUDES MARBLE, QUARTZITE, CALC-SCHIST, AND LESSER QUARTZ-MICA SCHIST

uqm GRAY PHYLLITE AND QUARTZ-MICA SCHIST (PALEOZOIC AND OLDER(?)

IGNEOUS AND META-IGNEOUS ROCKS

Kgr META-GRANITIC PLUTONIC ROCKS (CRETACEOUS OR PALEOZOIC)

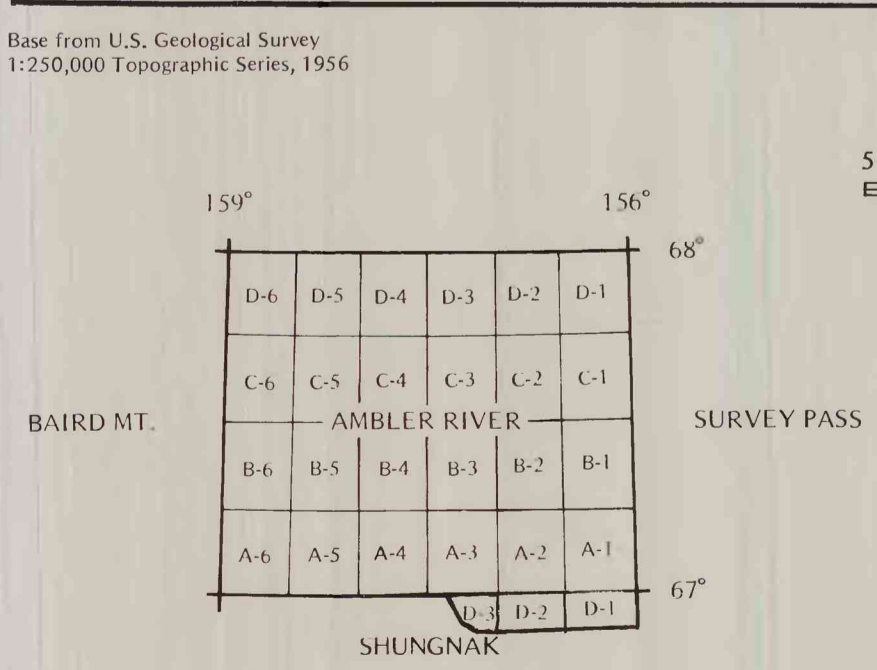
Ju ULTRAMAFIC ROCKS AND SERPENTINITE (JURASSIC)

fs BASALT, DIABASE, AND GREENSTONE (MESOZOIC AND/OR PALEOZOIC)

Pst FELSIC SCHIST (MESOZOIC AND/OR PALEOZOIC) MAY BE, IN PART, VOLCANIC

Pst INTERMEDIATE META-IGNEOUS ROCKS (MESOZOIC AND/OR PALEOZOIC) MAY BE PLUTONIC AND/OR VOLCANIC, MOSTLY GRANODIORITE OR QUARTZ DIORITE IN COMPOSITION

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



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

APPROXIMATE MEAN DECLINATION, 1976

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

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.

