

EXPLANATION
GEOLOGY GENERALIZED FROM WEBER, FOSTER, AND OTHERS (1978)

CORRELATION OF MAP UNITS

UNCONSOLIDATED DEPOSITS

Qac	QUATERNARY
Qaf	
Qd	
Qm	

SEDIMENTARY ROCKS

Tnc	TERTIARY
Td	

IGNEOUS ROCKS

Tg	TERTIARY
Tt	TERTIARY*
Tmg	TERTIARY OR MESOZOIC
Kg	CRETACEOUS

METAMORPHIC ROCKS

Pgc	PERMIAN
Pcu	
Pcl	
Pq	
Pp	
Ppfa	
Ppfb	
Ppfc	

PALEOZOIC

PALEOZOIC AND (OR) PRECAMBERIAN

DESCRIPTION OF MAP UNITS

UNCONSOLIDATED DEPOSITS

- Qac ALLUVIUM, COLLUVIUM, AND MINOR GLACIAL AND EOLIAN DEPOSITS
- Qaf ALLUVIAL FAN AND GLACIAL OUTWASH DEPOSITS
- Qd DUNE SAND
- Qm MORAINAL DEPOSITS

SEDIMENTARY ROCKS

- Tnc NENANA GRAVEL AND COAL-BEARING FORMATION
- Td DETRITAL ROCKS

IGNEOUS ROCKS

- Tg GRANITE AND QUARTZ MONZONITE
- Tt FELSIC TUFF AND LAVA
- Tmg UNDIVIDED GRANITIC AND DIORITIC ROCKS
- Kg UNDIVIDED GRANITIC AND MINOR DIORITIC ROCKS

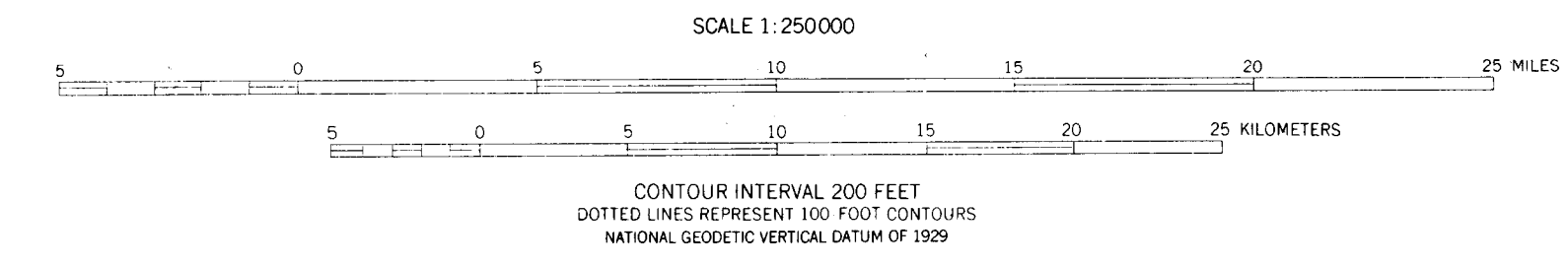
METAMORPHIC ROCKS

- Pgc GREENSTONE AND CHERT
- Pcu ULTRAMAFIC ROCKS
- Pcl CATACLASTIC SCHIST AND GNEISS
- Pq GREENSCHIST, QUARTZITE, MARBLE, COARSE META-ARENITE, GREENSTONE, AND META-TUFF
- Pp QUARTZITE, SLATE, CALC-PHYLLITE, AND MARBLE
- Ppfa AUGEN GNEISS AND MINOR AMOUNTS OF OTHER GNEISSIC ROCKS
- Ppfb GNEISS, SCHIST, AUGEN GNEISS, AMPHIBOLITE, AND MARBLE

GEOLOGIC SYMBOLS

- CONTACT, APPROXIMATELY LOCATED
- FAULT OR PROBABLE FAULT, DOTTED WHERE CONCEALED

Base compiled in 1963 from U.S. Geological Survey 1:63,360 scale maps and manuscripts surveyed 1949-1958. Map not field checked.

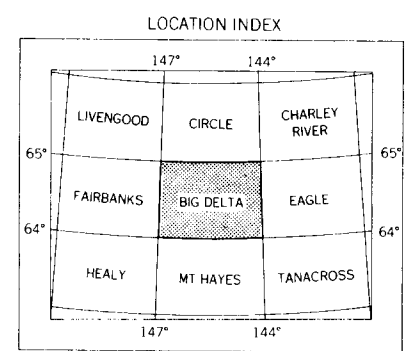


GENERALIZED GEOLOGY AND AEROMAGNETIC INTERPRETATION

AEROMAGNETIC INTERPRETATION
OF THE
BIG DELTA QUADRANGLE, ALASKA

By
Andrew Griscom

1979



AEROMAGNETIC INTERPRETATION SYMBOLS

- Fault inferred from aeromagnetic data; dashed where approximately located
- Boundary between magnetic and less magnetic rocks
- Boundary between magnetic and less magnetic rocks; teeth on less magnetic side
- Axis of magnetic high
- Axis of magnetic low
- R Magnetic anomaly caused by rocks with reverse remanent magnetization
- V Magnetic anomaly believed to be caused by volcanic rocks
- P Magnetic low or flat area believed to be caused by plutonic rocks
- M Magnetic anomaly believed to be caused by contact-metamorphosed rocks
- D Magnetic anomaly believed to be caused by dioritic or gabbroic rocks
- U Magnetic anomaly believed to be caused by serpentinized ultramafic rocks. Subscript is a label for discussion purposes

1958 MAGNETIC DECLINATION AT SOUTH EDGE OF SHEET VARIES FROM 29° TO 30° EAST

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.