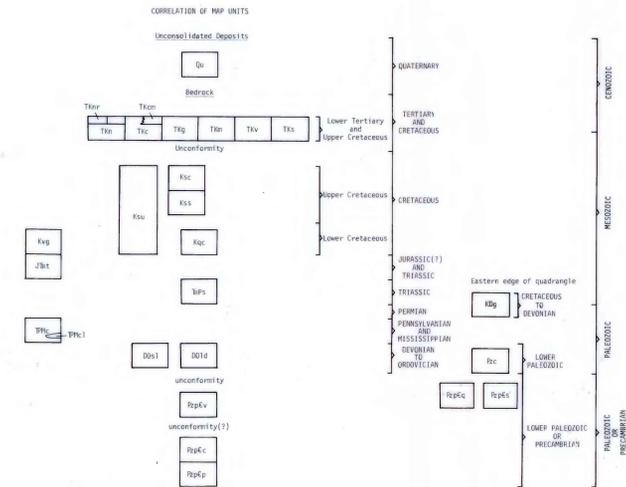


Explanation for Generalized Geologic Map



- DESCRIPTION OF MAP UNITS
- Qu UNDIFFERENTIATED SURFICIAL DEPOSITS
 - Tm VOLCANIC ROCKS OF THE NADINA RIVER AREA—Chiefly trachyandesite, basaltic andesite, and basalt flows. Thin-Rhyolite domes, tuffs, and breccia
 - Tkn MAPIC TO INTERMEDIATE VOLCANIC-PLUTONIC COMPLEXES—Altered basalt, andesite, and trachyandesite flows and hypabyssal intrusive bodies. Thin—Small bodies of monzonite, quartz monzonite, and granodiorite
 - Tkg GRANITE
 - Tkn MONZONITE
 - Tkv VOLCANIC ROCKS OF NEON FORK-UPPER SILKINA RIVER AREA—Rhyolite, dacite, and trachyandesite sills, dikes, flows, and plugs
 - Tks VOLCANIC ROCKS OF THE SICHU MOUNTAINS—Rhyolite and dacite flows and domes
 - Kdg GABBRO
 - Ksu UNDIFFERENTIATED SHALE, SILTSTONE, AND SANDSTONE
 - Ksc NONMARINE SANDSTONE AND QUARTZ-CHERT CONGLOMERATE
 - Kss MARINE SANDSTONE, SILTSTONE, AND SHALE
 - Kqc QUARTZ-CARBONATE SANDSTONE AND PEBBLY MUDSTONE
 - Kvg VOLCANIC GYPSUM AND CONGLOMERATE
 - Jbt CHERTY TUFF, CRYSTAL AND LITHIC TUFFS, AND VOLCANIC BRECCIA
 - Tps SANDSTONE, SANDY LIMESTONE, SPICULITE, AND CONGLOMERATE
 - Dds1 CHERT AND LIMESTONE—Chiefly radiolarian chert. Dds2—Limestone.
 - Rpsv SHALY LIMESTONE
 - Dds2 LIMESTONE AND GYPSUM
 - Rpsk CHERT AND PHYLITE
 - Rpsk QUARTZITE, GRIT, AND ARGILLITE
 - Rpsk SHEARED GRIT, QUARTZITE, AND QUARTZ-MICA SCHIST
 - Rpsk METAVOLCANIC ROCKS—Metarhyolite and dacite
 - Rpsk CALC-SCHIST
 - Rpsk PELITIC SCHIST

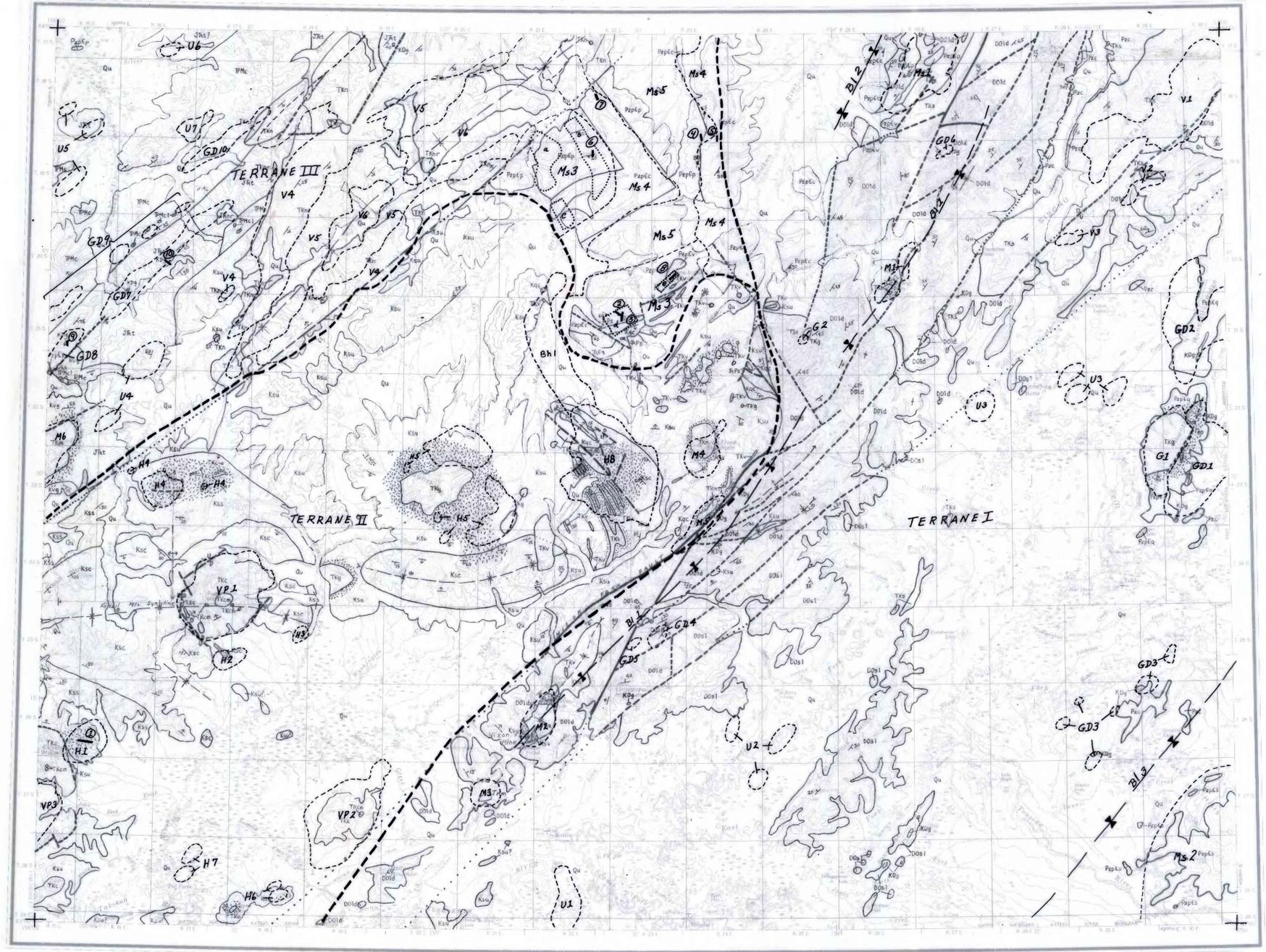
Aeromagnetic Anomaly Symbols

- B1 Basement low
 - BH Basement high
 - GD Gabbro-diorite
 - V Volcanic rocks
 - G Granite
 - VP Volcanoplutonic complex
 - Ms Metamorphic complex
 - H Hornfels
 - U Unknown
- Ground magnetic traverse. Profiles shown in figure 1
- Boundary between regional magnetic terranes
- Generalized outline of selected magnetic anomalies. Does not represent an inferred contact between magnetic and nonmagnetic units
- Area within selected magnetic anomalies where source rocks may crop out
- Axis of basement low

GEOLOGIC SYMBOLS

- Contact - Includes approximately located, inferred, and indefinite
- Fault - Dashed where approximately located, short dashed where inferred, dotted where concealed. U, upstream side; D, downstream side
- Anticline - Showing direction of plunge
- Syncline - Showing direction of plunge
- Strike and dip of beds. May include overturned beds
- Strike of vertical beds
- Horizontal beds
- Strike and dip of beds based on photointerpretation or distant observation
- Strike and dip of foliation
- Zone of hornfels

Contact between Rpsk and Rpsk mapped in part based on interpretation of aeromagnetic data (see Patton and others, Open-File Report 80-811E, in preparation)



Notes: Generalized geologic map of the Medfra quadrangle, Alaska, and U.S. Geological Survey 1:250,000 Alaska Topographic Series - Medfra, 1969.

SCALE 1:250,000

0 5 10 15 20 25 MILES

0 5 10 15 20 25 KILOMETERS

CONTOUR INTERVAL 200 FEET

DOTTED LINES REPRESENT 100 FOOT CONTOURS

DATUM IS MEAN SEA LEVEL

1959 MAGNETIC DECLINATION AT SOUTH EDGE OF SHEET VARIES FROM 22°00' TO 24°30' EAST

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