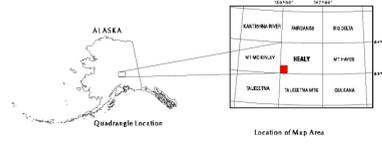
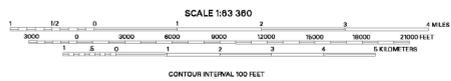
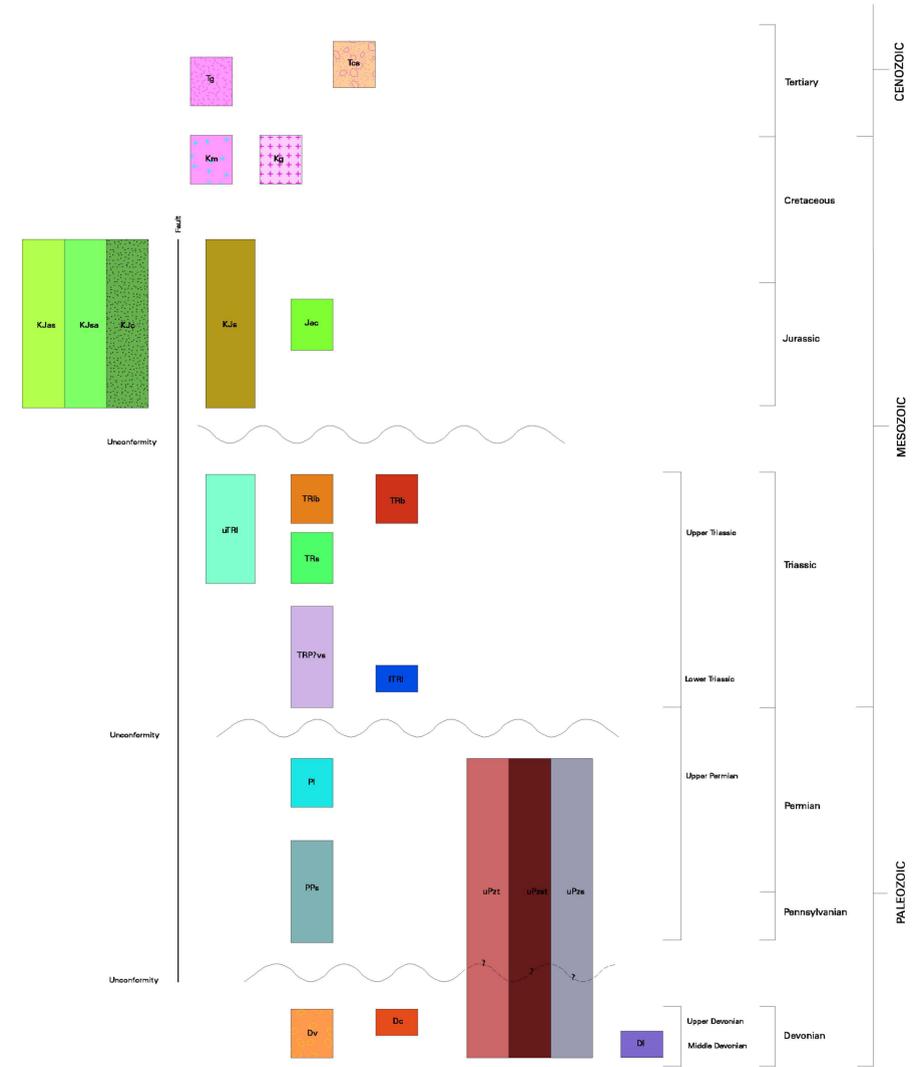


Base from U.S. Geological Survey
Healy A-6 Quadrangle, Alaska (1949)

Digital cartography by A.G. Sturmann, D.S. Pinney,
B.G. Gage, D. Lee, and F. Gandy



CORRELATION OF MAP UNITS

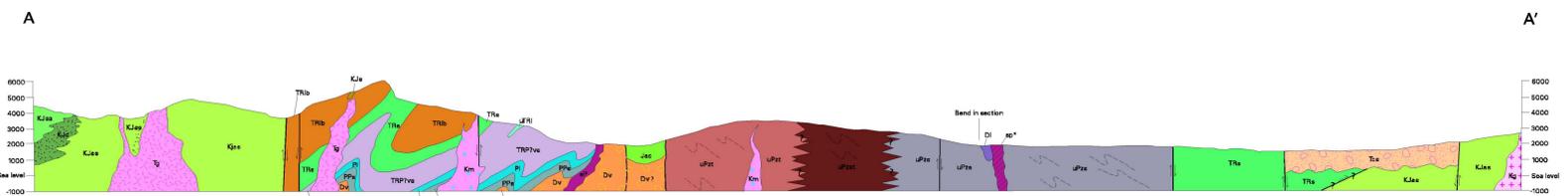


DESCRIPTION OF MAP UNITS

- IGNEOUS ROCKS**
- Tg - Granite
 - Kg - Granite
 - Km - Quartz monzodiorite
- SEDIMENTARY AND VOLCANIC ROCKS**
- Tertiary Rocks**
- Tce - Gravel and sand
- Cretaceous to Jurassic Rocks**
- KJas - Argillite and sandstone
 - KJsa - Sandstone and argillite
 - KJc - Conglomerate
 - KJa - Calcareous sandstone and argillite
 - Jac - Argillite and cherty argillite
- Triassic to Permian Rocks**
- TRb - Basalt, basaltic tuff and limestone
 - uTRI - Limestone
 - TRb - Basaltic dikes and sills
 - TRa - Sandstone and argillite
 - TRP7ve - Red-colored tuff, basalt, graywacke, conglomerate
 - ITRI - Limestone
- Upper Paleozoic Rocks**
- PI - Limestone
 - PPa - Argillite and graywacke
 - uPzt - Tuff
 - uPzt - Argillite, siltstone and tuff
 - uPza - Chert, cherty tuff, graywacke, and argillite
 - Dv - Andesitic tuff and flows
 - Dc - Red and brown chert
 - DI - Limestone
- Rocks of Unknown Age**
- sp - Serpentinite and silice-carbonate rocks
 - sp* - Serpentinite observed in three locations in this mostly covered area. Unit boundaries defined by aeromagnetic high signature similar to unit 'sp'.

MAP SYMBOLS

- Contact
- Thrust Fault-Dashed where approximately located, queried where inferred or continuation unknown
- High-angle Normal Fault-Some inferred from geophysical lineament or apparent geophysical offset, or from topographic lineament. Dashed where approximately located, queried where inferred or continuation unknown.
- Fold Axis-Dashed where approximately located; queried where inferred; arrow shows direction of plunge
- Anticline
- Syncline
- Overturned anticline
- Overturned syncline
- Bedding attitude; shows dip where known
- Inclined, vertical, ball indicates top known from bedding features
- Overturned, ball indicates top known from bedding features
- Cleavage-Inclined, vertical
- Joint-Shows dip where known
- Vertical joint
- Major and trace element compositions suggest:
- Tertiary granite dike
- Cretaceous monzonite dike
- Cretaceous monzonite dike, altered
- Cretaceous monzonite dike, queried
- Locality and field number of 40Ar/39Ar data sample, results listed in accompanying booklet
- Dike
- Hornfels



PRELIMINARY INTERPRETIVE BEDROCK GEOLOGIC MAP OF THE HEALY A-6 QUADRANGLE,
SOUTH-CENTRAL ALASKA

by
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