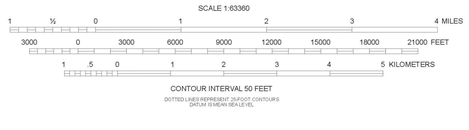
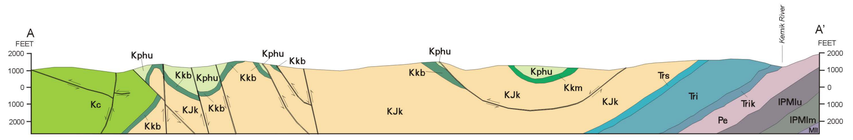
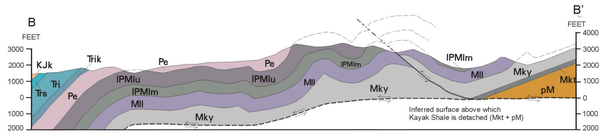
Base from U.S. Geological Survey
Sagavanirktok B-1 Quadrangle, Alaska

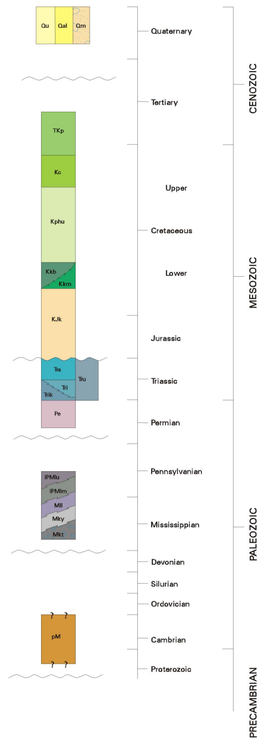


Geologic fieldwork for the Sagavanirktok B-1 Quadrangle Bedrock Geology Map by: R.R. Reifenstuhl (1999,1991), C.G. Mull (1999,1991), E.H. Harris (1999), D.L. LePain (1999), W.K. Wallace (1999), J. Decker (1991), M.D. Myers (1991) and R.K. Crowder (1991). Thanks to M.T. Whalen (University of Alaska Fairbanks, Department of Geology and Geophysics) and R.F. Swenson (Arco Alaska, Anchorage, AK) for technical review of the map. This work is in cooperation with the U.S. Geological Survey, agreement #99HQAG0121. This mapping project was constrained by a contractual 12 month timeline which included fieldwork, map compilation and final electronic map production. Electronic cartography by A.G. Sturmann (DGGS) and B.G. Gage (DGGS).

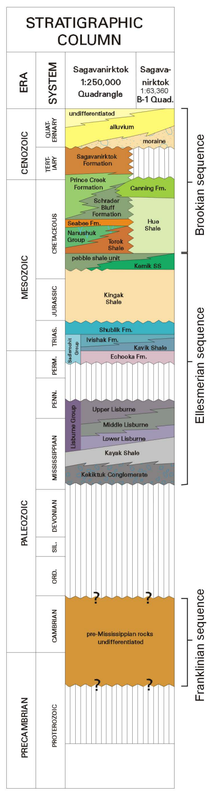




CORRELATION OF MAP UNITS



STRATIGRAPHIC COLUMN

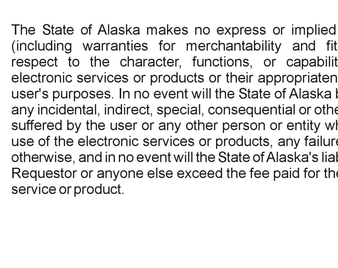


EXPLANATION OF MAP UNITS

- Qu — Undifferentiated unconsolidated deposits, gravel, sand and silt
- Qal — Undifferentiated stream alluvium, gravel, sand, silt, and clay
- Qm — Undifferentiated glacial deposits, clay, silt, sand, and gravel
- TKp — Prince Creek Formation, sandstone and conglomerate
- Kc — Canning Formation, sandstone, siltstone and shale
- Kphu — Pebble shale unit/Hue Shale undifferentiated, pebble shale and clay shale
- Kkm — Kemik Sandstone - massive facies, sandstone and shale
- Kkb — Kemik Sandstone - bioturbated facies, sandstone and shale
- KJk — Kingak Formation, shale
- Tru — Shublik/Ivishak Formation undifferentiated, limestone, shale and sandstone
- Trs — Shublik Formation, limestone, siltstone and shale
- Tri — Ivishak Formation, sandstone and siltstone
- Trik — Kavik Member of Ivishak Formation, silty shale
- Pe — Echooka Formation, siliceous siltstone and sandstone
- IPMlu — Lisburne Group, upper part, limestone
- IPMlm — Lisburne Group, middle part, limestone
- Mll — Lisburne Group, lower part, limestone and mudstone
- Mky — Kayak Shale, shale, siltstone, sandstone, and limestone
- Mkt — Kekiktuk Conglomerate, sandstone and conglomerate
- pM — Pre-Mississippian rocks undifferentiated, calcareous quartz semischist

MAP SYMBOLS

- Contact-dashed where approximately located, dotted where unknown
- Thrust fault-dashed where approximately located, queried where inferred or continuation unknown
- High-angle normal fault-dashed where approximately located. U on upthrown side, D on downthrown side
- Fold axis-dashed where approximately located; arrow shows direction of plunge
- Anticline, with direction of plunge where known
- Syncline, with direction of plunge where known
- Overturned anticline, with direction of plunge where known
- Overturned syncline, with direction of plunge where known
- Bedding attitude; shows dip where known
- Inclined, horizontal, ball indicates top known from bedding features
- Overturned, ball indicates top known from bedding features
- Approximate, shows dip where known
- Cleavage- Inclined
- Joint-Shows dip where known
- Anticline with both limbs dipping in same direction, double arrow on steeper limb
- Syncline with both limbs dipping in same direction, double arrow on steeper limb
- Anticline, double arrow on steeper limb
- Syncline, double arrow on steeper limb



LOCATION INDEX

Interpretive Bedrock-geologic Map of the Sagavanirktok B-1 Quadrangle, Eastern North Slope, Alaska

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2000

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