DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT
89-551

Base from U.S.G.S. topo series
1:250,000 BAIRD MTS., SELAWIK
compiled in Menlo Park by WTR
Ellersieck 2/83

21° TRUE NORTH
APPROXIMATE MEAN DECLINATION, 1983

ALASKA
QUADRANGLE LOCATION

SCALE 1:250 000

5 0 5 10 15 20 25 MILES
5 0 5 10 15 20 25 KILOMETERS

Field mapping by: D.C. Blanchard, 1981; W.P. Brosge, 1966, 1974; S.M. Curtis, 1979; J.T. Dillon, 1985; J.A. Dumoulin, 1983, 1984, 1985, 1986; J.T. Dutro, 1983; I.P. Ellersieck, 1976, 1979, 1981, 1983, 1984; M. Flaherty, 1985; P.F. Folger, 1983, 1984, 1985; W. Hamilton, 1976; A.G. Harris, 1983, 1984; S.M. Karl, 1983, 1984 1985, 1986; D. Kaufman, 1985; C.F. Mayfield, 1974, 1976, 1979, 1981; T.P. Miller, 1966; S.W. Nelson, 1986, 1987; W.W. Patton, 1961, 1965, 1966, 1967; G.H. Pessel, 1974; J.M. Schmidt, 1983, 1984, 1985, 1986, 1987; H.N. Reiser, 1966; I.L. Tailleur, 1955, 1961, 1966, 1970, 1979, 1981, 1983; W. Thompson, 1984, 1985; A.B. Till, 1985, 1986, 1987; M.R. Zoyatz, 1986

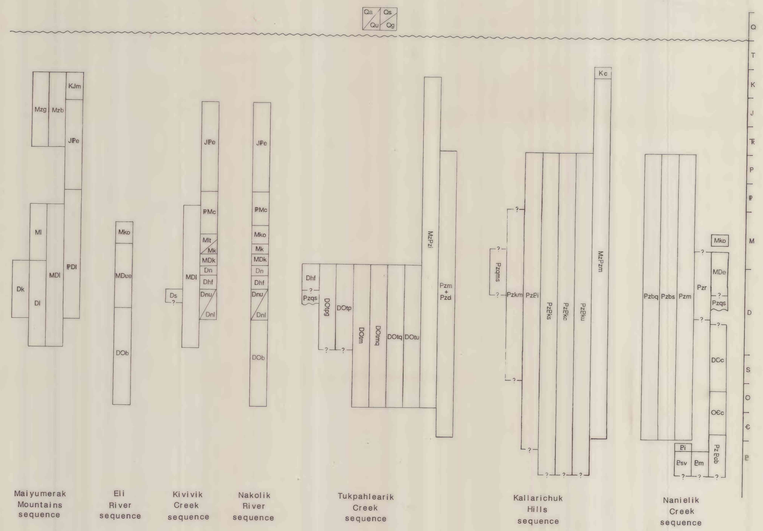
PRELIMINARY GEOLOGIC MAP OF THE BAIRD MOUNTAINS AND PART OF THE SELAWIK QUADRANGLES, ALASKA

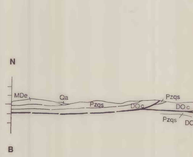
by

S.M. Karl, J.A. Dumoulin, Inyo Ellersieck, A.G. Harris, and J.M. Schmidt

1989

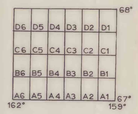
CORRELATION OF MAP UNITS





DISTRIBUTION OF STRATIGRAPHIC SEQUENCES

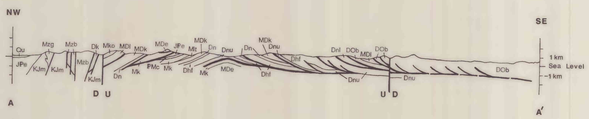
QUADRANGLE LOCATIONS WITHIN MAP



EXPLANATION

- Maiyumerak Mountains sequence
- Eli River sequence
- Kivivik Creek sequence
- Nakolik River sequence
- Tukpahlearik Creek sequence
- Kallarichuk Hills sequence
- Naniellik Creek sequence

GEOLOGIC CROSS SECTIONS



NO VERTICAL EXAGGERATION

LIST OF MAP UNITS
(See pamphlet for detailed descriptions)

- Qu — Undifferentiated surficial deposits (Quaternary)
- Qa — Alluvial deposits (Quaternary)
- Qg — Glacial deposits (Quaternary)
- Qs — Sand (Quaternary)
- Kc — Conglomerate (Cretaceous)
- KJm — Melange (Cretaceous and(or) Jurassic)
- JPe — Etivluk Group (Jurassic to Pennsylvanian)
- Mzb — Basalt (Mesozoic)
- Mzg — Gabbro (Mesozoic)
- MzPzi — Intrusive rocks (Mesozoic or Paleozoic)
- MzPzm — Melange and phyllite (Mesozoic and Paleozoic)
- PMc — Chert and phyllite (Pennsylvanian and Mississippian)
- PDl — Limestone (Pennsylvanian, Mississippian, and Devonian)
- Mko — Kogruk Formation (Mississippian)
- Ml — Limestone (Mississippian)
- MDue — Utukok Formation and Eli Limestone (Mississippian to Devonian)
- Mlt — Limestone and tuff (Mississippian)
- Mk — Kayak Shale (Mississippian)
- MDl — Limestone (Mississippian and(or) Devonian)
- MDe — Endicott Group (Mississippian and Devonian)
- MDk — Kanayut Conglomerate (Mississippian and Devonian)
- Dn — Noatak Sandstone (Devonian)
- Dhf — Hunt Fork Shale (Devonian)
- Dnu — Phyllite, carbonate and clastic rocks of Nakolik River, undivided (Devonian)
- Dnl — Limestone of Nakolik River (Devonian)
- Ds — Shale (Devonian)
- Dk — Kugururok Limestone (Devonian)
- Dl — Limestone (Devonian)
- DOtu — Metasedimentary and metavolcanic rocks of Tukpahlearik Creek, undivided (Devonian to Ordovician)
- DOtq — Carbonaceous quartzite and quartz conglomerate of Tukpahlearik Creek (?Devonian and Ordovician)
- DOtm — Marble of Tukpahleanik Creek (Devonian to Ordovician)
- DOtmq — Marble and quaretz schist of Tukpahlearik Creek (Devonian to Ordovician)
- DOtp — Pelitic schist of Tukpahlearik Creek (Devonian to ?Ordovician)
- DOtpg — Pelitic schist and greenstone of Tukpahlearik Creek (Devonian to ?Ordovician)
- DOb — Baird Group (Devonian to Ordovician)
- DOc — Carbonate rocks (?Devonian, Silurian, and Ordovician)
- OCc — Carbonate rocks (Ordovician to Cambrian)
- Pzd — Dolostone (Paleozoic)
- Pzm — Marble (Paleozoic)
- Pzkm — Marble of Klery Creek (Paleozoic)
- Pzqms — Quartz mica schists (Paleozoic)
- Pzqs — Quartz conglomerate, sandstone, and siliceous phyllite (Paleozoic)
- Pzr — Rhyolite (Paleozoic)
- Pzbq — Black quartzite and siliceous semischist (Paleozoic)
- Pzba — Black shale and carbonate rocks (Paleozoic)
- PzEku — Mixed schists of the Kallarichuk Hills, undivided (Paleozoic and(or) Proterozoic)
- PzEks — Siliceous schist of the Kallarichuk Hills (Paleozoic and(or) Proterozoic)
- PzEkc — Calcareous schist and marble of the Kallarichuk Hills (Paleozoic and(or) Proterozoic)
- PzEcb — Carbonate rocks and metabasite (Paleozoic and(or) Proterozoic)
- PzEi — Meta-intrusive rocks (Paleozoic and(or) Proterozoic))
- Ei — Intrusive rocks of Mount Angayukaqsraq (Proterozoic)
- Pzsv — Metasedimentary and Metavolcanic rocks of Mount Angayukaqsraq (Proterozoic)
- Em — Polymetamorphic mafic rocks (Proterozoic)
- b — Metabasalt
- c — Metachert
- cs — Chlorite schist
- g — Gabbro
- m — Marble
- s — Serpentinite
- Contact, dashed where inferred
- Fault, dashed where inferred
- Thrust fault, sawteeth on upper plate, dashed where inferred
- Thrust fault, faulted unconformity, or out-of-sequence thrust, sawteeth on upper plate, dashed where inferred
- Normal fault, ball-and-stick on down-dropped plate, dashed where inferred
- Normal fault coincident with thrust fault, ball-and-stick on down-dropped plate, sawteeth on upper plate of thrust fault, dashed where inferred
- Bedding attitude
- Bedding attitude, bedding tops upward-facing
- Foliation attitude
- Fold axis, antiformal or anticlinal fold
- Fold axis, overturned fold
- (11) Fossil locality, numbers refer to Table 1