

EXPLANATION

BEDDED ROCKS

IGNEOUS ROCKS

Qg
Gravel, largely glacial moraine and outwash

Qal
Alluvium, glacio-fluvial and fluvial silt, sand, and gravel

QUATERNARY

UNCONFORMITY

K
Torok, Fortress Mountain and Opikrusk formations undivided. Shale, sandstone, and conglomerate

CRETACEOUS

UNCONFORMITY

J?
Possibly Tiglukpuk or Kingak formations. Shale and chert

JURASSIC

UNCONFORMITY

Rs
Shublik formation
Black shale, limestone, siltstone, and sandstone

TRIASSIC

DISCONFORMITY

Ps
Siksikpuk formation. Shale and siltstone

RPs
Sadlerochit sandstone
Shale, siltstone, sandstone, and limestone

PERMIAN

UNCONFORMITY

MI
Lisburne group
Limestone, dolomite, chert, and shale

UNCONFORMITY

Mk
Kayak shale
Shale, limestone, and sandstone. Locally includes unnamed conglomerate, MDe

MISSISSIPPIAN

Southern Belt

Western

Eastern

MDe
Unnamed conglomerate

UNCONFORMITY

Dk
Kanayut conglomerate

Dks
Kanayut conglomerate and unnamed slate and sandstone undivided

DEVONIAN

Ds
Unnamed slate and sandstone

Ds
Unnamed slate and sandstone

UNCONFORMITY(?)

DSL
Limestone

DSL
Limestone

(Includes Skajit limestone of Mertie, J. B., Jr., 1929, The Chandalar-Sheenjek district, Alaska: U. S. Geol. Survey Bull. 810, p. 113-115)

SILURIAN

Northern Belt

MDe
Unnamed conglomerate

UNCONFORMITY

Pznc
UNCONFORMITY
Pzn
Pzpl
Pznl
Pznq

Merukpuk formation
Pznc, phyllite, chert and sandstone.
Pznp, phyllite and limestone.
Pznl, limestone.
Pznq, quartzite-schist.
Pzpl, limestone-phyllite and limestone undivided (Relative stratigraphic positions of Pznp, Pznl and Pznq are uncertain.)

Pzs
Paleozoic sedimentary rocks
May be thermally metamorphosed. Probably Lisburne group and Merukpuk formation

Mk-Pzn
Kayak shale and Merukpuk formation undivided

ML-MDe
Kayak shale and unnamed conglomerate undivided

Psm
Unnamed schist

DEVONIAN

SYMBOLS

Geologic contact

Dashed where approximately located; questioned where doubtful, dotted where concealed. May include some fault contacts

Fault

Dashed where approximately located, questioned where doubtful, dotted where concealed. U, upthrown side; D, downthrown side. Arrows show relative movement

Thrust fault

Dashed where approximately located, questioned where doubtful, dotted where concealed. Sawteeth on upper plate

Strike and dip of beds

Strike and dip of beds interpreted from aerial photographs

Strike and dip of overturned beds

Strike and dip of overturned beds interpreted from aerial photographs

Strike of vertical beds

Horizontal beds

Anticline

Showing trace of axial plane and direction of plunge. Dashed where approximately located, questioned where doubtful

Overturned anticline

Showing trace of axial plane, direction of dip of limbs, and direction of plunge. Dashed where approximately located

Syncline

Showing trace of axial plane and direction of plunge. Dashed where approximately located, questioned where doubtful

Overturned syncline

Showing trace of axial plane, direction of dip of limbs and direction of plunge. Dashed where approximately located

Scratch boundary

Limit of geologic mapping of bedrock units

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