Geologic Map of Bering Land Bridge National Preserve

Alaska

National Park Service
U.S. Department of the Interior

Geologic Resources Inventory
Natural Resource Stewardship and Science

NPS Boundary

Infrastructure
- City
- Point of interest
- Airstrip
- Shelter cabin
- Roads

Linear Dikes
- Dikes and stocks (Cretaceous), known or certain

Faults: Solid where known or certain, dotted where concealed

Geologic Contacts
- Known or certain
- Water or shoreline
- Quadrangle boundary
- Map boundary

Geologic Units
- Water

Surficial Deposits
- Qs — Surficial deposits, undivided (Quaternary)

Mesozoic and Cenozoic Igneous Rocks
- Qlj — Lost Jim Basalt (Holocene)
- QTv — Weathered volcanic rocks, undivided (Quaternary and Tertiary)
- TKv — Felsic volcanic rocks (Tertiary and Cretaceous)
- Ktg — Tin-bearing granitic stocks (Late Cretaceous)
- Kgu — Granitic rocks, undifferentiated (Cretaceous)
- Kp — Pargon pluton (Cretaceous)
- Kg — Kigluaik granite (Cretaceous)
- Ks — Stocks, undifferentiated (Cretaceous)

Mesozoic and Cenozoic Igneous Rocks continued
- Kku — Kugruk pluton (Cretaceous)
- Kwc — Windy Creek pluton (Cretaceous)
- Kd — Darby pluton (Cretaceous)
- Kbk — Bendeleben and Kuzitrin plutons (Cretaceous)

York Terrane

York Mountains Succession
- DSl — Limestone (Devonian and (or) Silurian)
- SOdl — Dark limestone (Silurian and Upper Ordovician)
- SOul — Limestone and dolostone, undifferentiated (Silurian and Ordovician)
- Ols — Limestone and shale (Ordovician)
- Ol — Limestone (Ordovician)
- Oal — Argillaceous limestone and limestone (Ordovician)

Units With Uncertain Affinities
- PZl — Limestone (Paleozoic)
- Ml — Limestone, dolomitic limestone, and marble (Mississippian)
- PZgb — Metagabbro (Paleozoic)
- OPRl — Limestone and dolomitic limestone (Proterozoic to Ordovician)
- OPRt — Sandstone, siltstone, and limestone (Proterozoic to Ordovician)
- OPRp — Phyllite (Proterozoic to Ordovician)

Grantley Harbor Fault Zone
- PZp — Phyllite and argillite (Paleozoic)
- PZPRl — Metalimestone (Paleozoic and Proterozoic?)
- PZPRt — Metasiltstone and phyllite (Paleozoic and Proterozoic?)

Nome Complex

Layered Sequence and Related Rocks
- PZnp — Metagabbro and metasediments (Paleozoic?)
- Ds — Pelitic schist (Devonian?)
- Dcs — Pelitic, calcareous, and graphitic schist (Devonian)

Nome Complex continued
- DOx — Mixed marble, graphitic metasiliceous rock, and schist (Ordovician to Devonian)
- Dg — Granitic orthogneiss (Devonian)
- Df — Felsic schist (Devonian)
- Ocs — Casadepaga Schist (Ordovician)
- Oim — Impure chlorite marble (Ordovician)
- PRn — Metagranitic rocks (Late Proterozoic)

Scattered Metacarbonate Rocks
- PZm — Marble, undivided (Paleozoic)
- PZd — Dolostone, undivided (Paleozoic)
- Ddm — Dolostone, metalimestone, and marble (Devonian)
- Sd — Dolostone (Silurian)
- Od — Dolostone (Ordovician)

Metaturbidites
- DCks — Calcareous schist of Kwiniuk Mountain (Cambrian to Devonian)
- DObm — Black metalimestone and marble (Ordovician to Devonian)

High-Grade Metamorphic and Associated Igneous Rocks
- PZPRh — High-grade metasedimentary and metaigneous rocks (Paleozoic and Proterozoic)
- PZPRm — Marble (Proterozoic? to Paleozoic)
- PZPRg — Gneiss and orthogneiss (Paleozoic? and Proterozoic?)
- PRo — Orthogneiss (Proterozoic)
- PRv — Metavolcanic rocks (Proterozoic)

Kugruk Fault Zone
- TKs — Carbonate-rich conglomerate and sandstone; mudstone, siltstone and coal (Tertiary and Cretaceous)
- Jt — Spruce Creek tonalite (Jurassic)
- MZPZm — Metamorphosed mafic rocks and serpentinite (Mesozoic and Paleozoic?)

This map displays geologic map data compiled by the National Park Service Geologic Resources Inventory. It is not a substitute for site-specific investigations.

Source Map

Till, A.B., J.A. Dumoulin, M.B. Werdon, and H.A. Bleick. 2011. Bedrock Geologic Map of the Seward Peninsula, Alaska, and accompanying conodont data (scale 1:500,000). Scientific Investigations Map 3131. US Geological Survey, Anchorage, Alaska.

Till, A.B., J.A. Dumoulin, M.B. Werdon, and H.A. Bleick. Geologic Map Compilers, and K.A. Labay, H. Bleick, F.H. Wilson, and N. Shew, digital files preparation. 2010. Digital data for the preliminary bedrock geologic map of the Seward Peninsula, Bendeleben, Kotzebue, Shishmaref, and Teller 1x3 Sheets, Alaska, and accompanying conodont data (scale 1:500,000). Open-File Report 2009-1254. US Geological Survey, Anchorage, Alaska.

Source Scale 1:500,000

All Geologic Resources Inventory geologic map data and publications are available at http://go.nps.gov/gripubs.

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ARCTIC OCEAN
CHUKCHI SEA
BERING STRAIT
BERING SEA
KOTZEBUE SOUND
NORTON SOUND
SEWARD PENINSULA
WEAR (Western Arctic Parklands: CAKR, NOAT, KOVA) Headquarters and Visitor Center
Kotzebue
BALDWIN PENINSULA
Nimiuk Point
Cape Blossom
Cape Espenberg
Arctic Circle
66°
COWPACK INLET
Killuk River
Devil Mountain Lakes
White Fish Lake
Espenberg River
Killeak Lakes
Shishmaref
Sarichef Island
Cape Lowenstern
Devil Mountain
798ft
243m
Cowpack River
Kougachuk Creek
Nugnugaluktuk River
GOODHOPE BAY
SHISHMAREF INLET
North Fork
Serpentine River
Rock Creek
Lane River
Pish River
Goodhope River
Clifford Point
Rex Point
Toawlevic Point
Sullivan Bluffs
Cape Deceit
Deering
Motherwood Point
Ninemile Point
Willow Bay
Kugruk Lagoon
ARCTIC LAGOON
IKPEK LAGOON
LOPP LAGOON
Ear Mountain
2325ft
709m
Serpentine Hot Springs
(cabin and bathhouse)
Hot Springs Creek
Humboldt Creek
Cripple River
Chinuchuk River
Pinguk River
Kugrupaga River
Niuluk River
Potato Mountain
1407ft
429m
Wales
Cape Prince of Wales
Fairway Rock
Little Diomede Island
Kgu
Kougarok Mountain
2870ft
875m
Midnight Mountain
2640ft
805m
Washington Creek
Taylor Creek
Henry Creek
Budd Creek
Cottonwood
Asses Ears
1995ft
608m
Cloudy Lake
Fairhaven Ditch
Harris Dome
1855ft
565m
Kougarok
Baldy Mountain
1656ft
505m
Lava Lake
LOST JIM LAVA FLOW
Imuruk Lake
Sandy Lake
Joan Lake
Erich Lake
Kuzitrin River
Minnie Creek
Monument Mountain
2434ft
742m
Holtz Creek
Inmachuk River
Big Bar Creek
Kiwalik Mountian
2365ft
721m
Koyuk River
Mount Boyan
3018ft
920m
MOUNTAINS
BENDELEBEN
DEATH VALLEY
Coffee Dome
1085ft
331m
Mount Bendeleben
3730ft
1137m
Nome-Taylor Highway
Nome-Teller Highway
Cape York
Brooks Mountain
2898ft
883m
Cassiterite Peak
2009ft
612m
Point Spencer
Brevig Mission
Teller
Red Mountain
1380ft
421m
Brevig Lagoon
GRANTLEY HARBOR
PORT CLARENCE
IMURUK BASIN
Mukacharni Mountain
1426ft
435m
Agiapuk River
Igloo Creek
American Creek
Arctic Creek
Quartz Creek
Bluestone River
Canyon Creek
Fall Creek
Tuksuk Channel
Kauiruk River
Pilgrim River
Kuzitrin River
Niuklukluk Creek
Fargo River
Tubutulik River
Candle Creek
Qs
QTv
Ktg
PZPRg
PZPRh
PZPRm
PZm
PZd
DOx
Ddm
Oim
Ocs
TKv
TKs
DCks
DObm
MZPZm
Kbk
Kwc
Kd
Od
Dg
Jt
Ds
Ks
Qlj
Kp
PRv
PRn
PRo
Kg
Dcs
PZPRh
PZnp
PZPRt
PZPRl
PZgb
PZl
Ml
OPRt
OPRp
OPRl
SOul
DSl
Oal
Ol
Ols
SOdl
Location Map
Noatak National Preserve
Gates of the Arctic National Park and Preserve
Coldfoot
Map Extent
Cape Krusenstern National Monument
Kotzebue
Kobuk Valley National Park
Kobuk National Preserve
Allaket
Bering Land Bridge National Preserve
Espenberg
Elephant Point
Buckland
Deering
Kiwalik
Shishmaref
Wales
Brevig Mission
Teller
ALASKA
Koyuk
White Mountain
Elim
Golovin
Nome
Bering Land Bridge National Preserve Visitor Center
Solomon
Shaktoolik
Unalakleet
St. Michael
Denali National Park
North 0 200 Kilometers 0 200 Miles
North 0 25 Kilometers 0 25 Miles