

GEOLOGIC MAP UNITS

Please see accompanying report for descriptions of the map units.

SEDIMENTARY ROCKS

SEDIMENTARY ROCKS UNDIFFERENTIATED (Cenozoic - Cretaceous)

VOLCANIC ROCKS

- Rhyolite (Paleogene)
- FELSIC VOLCANIC ROCKS (Late Cretaceous)
- ALKALINE VOLCANIC ROCKS (Late Cretaceous)
- INTERMEDIATE VOLCANIC ROCKS (Late Cretaceous)
- INTERMEDIATE TO MAFIC VOLCANIC ROCKS (mid-Cretaceous)
- WEST FORK FELSIC TUFF (mid-Cretaceous)

INTRUSIVE ROCKS

- FELSIC HYPABYSSAL INTRUSIONS (Paleogene)
- GABBRO/DIABASE (Paleogene)
- TAURUS PLUTONIC SUITE GRANODIORITE and QUARTZ DIORITE (Late Cretaceous)

GARDINER CREEK PLUTONIC SUITE

- GRANODIORITE (mid-Cretaceous)
- GABBRO (mid-Cretaceous)
- PORPHYRYTIC GRANODIORITE DIKES (Cretaceous?)

MOUNT HARPER PLUTONIC SUITE

- GRANITE PORPHYRY (mid-Cretaceous)
- GRANITE (mid-Cretaceous)

NAPOLEON CREEK PLUTONIC SUITE UNDIVIDED (Jurassic)

- GRANITE (Triassic)
- TRONDHEJEMITE (Triassic)
- GRANODIORITE TO TONALITE (Triassic)
- GABBRO, DIORITE, QUARTZ DIORITE (Triassic)
- MT. WARBELOW GRANITE (Permian)

METAMORPHIC ROCKS

META-ULTRAMAFIC ROCKS (Triassic - Paleozoic?)

CHICKEN ASSEMBLAGE

- METASEDIMENTARY ROCKS UNDIVIDED (Mississippian)
- METAMAFIC ROCKS (Mississippian)

FORTYMLE RIVER ASSEMBLAGE

- ORTHOGNEISS (Mississippian - Devonian)
- AMPHIBOLITE (Mississippian - Devonian)
- METASEDIMENTARY ROCKS UNDIVIDED (Mississippian - Devonian)
- MARBLE AND IMPURE MARBLE (Mississippian - Devonian)

LAKE GEORGE ASSEMBLAGE

- DIVIDE MOUNTAIN AUGEN GNEISS (Mississippian - Devonian)
- ORTHOGNEISS (Mississippian - Devonian)
- AMPHIBOLITE (Mississippian - Devonian)
- METASEDIMENTARY ROCKS UNDIVIDED (Mississippian - Proterozoic)

MAP UNIT POINTS - Dikes or other localized map unit with observations too small to draw at map scale. Colored and labeled the same as map units above

Shaded-relief base map and topographic lines created from:

U.S. Geological Survey IFSAR Digital Terrain Model (2018)

Hydrology from:

U.S. Geological Survey National Hydrologic Dataset (2017)

Projection: Universal Transverse Mercator Zone 18N

Datum: North American Datum of 1983

Geologic field investigations by:

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T.J. Naibert, Alicia Wypych, A.D. Wildland, M.M. Gavel (2021, 2022, 2023)

Cartography by:

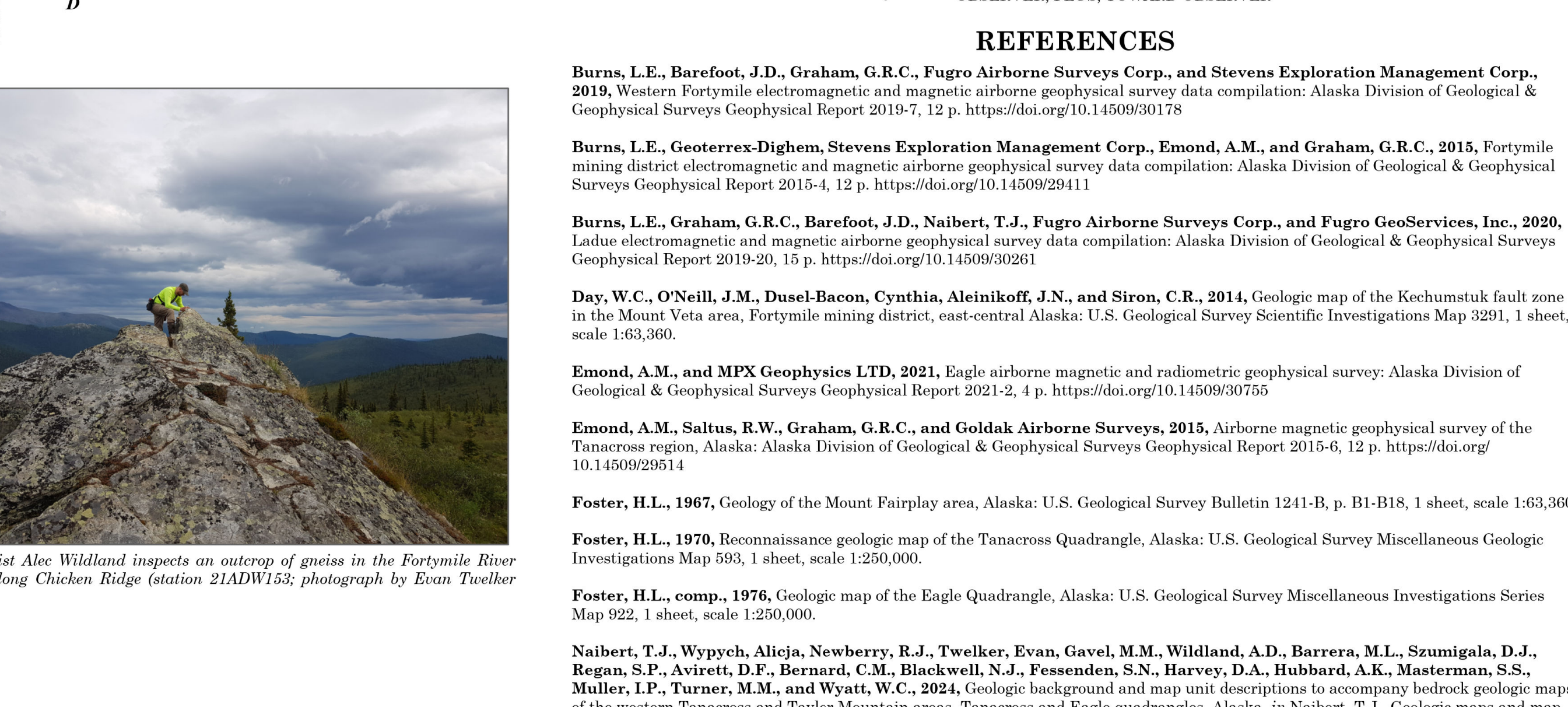
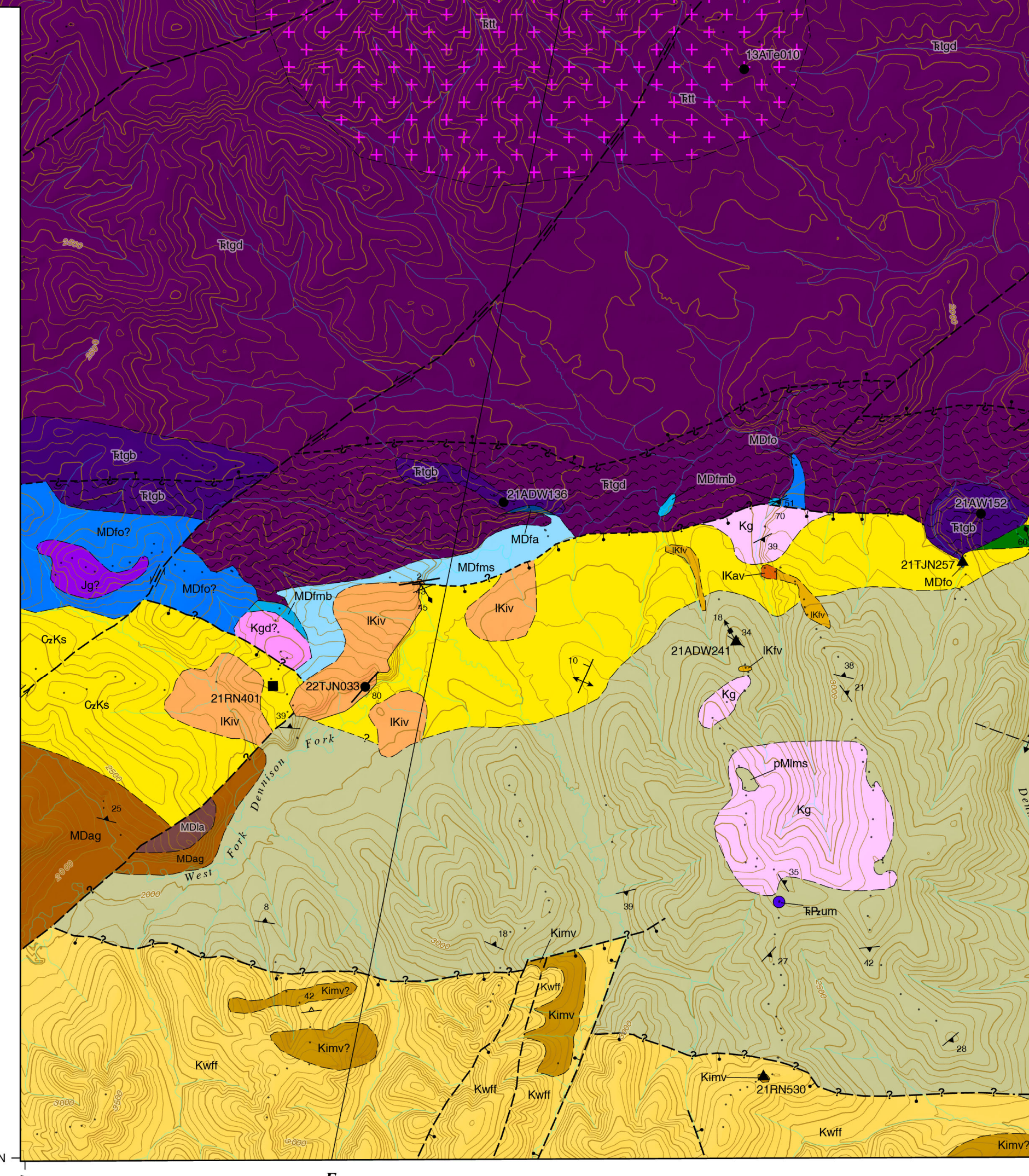
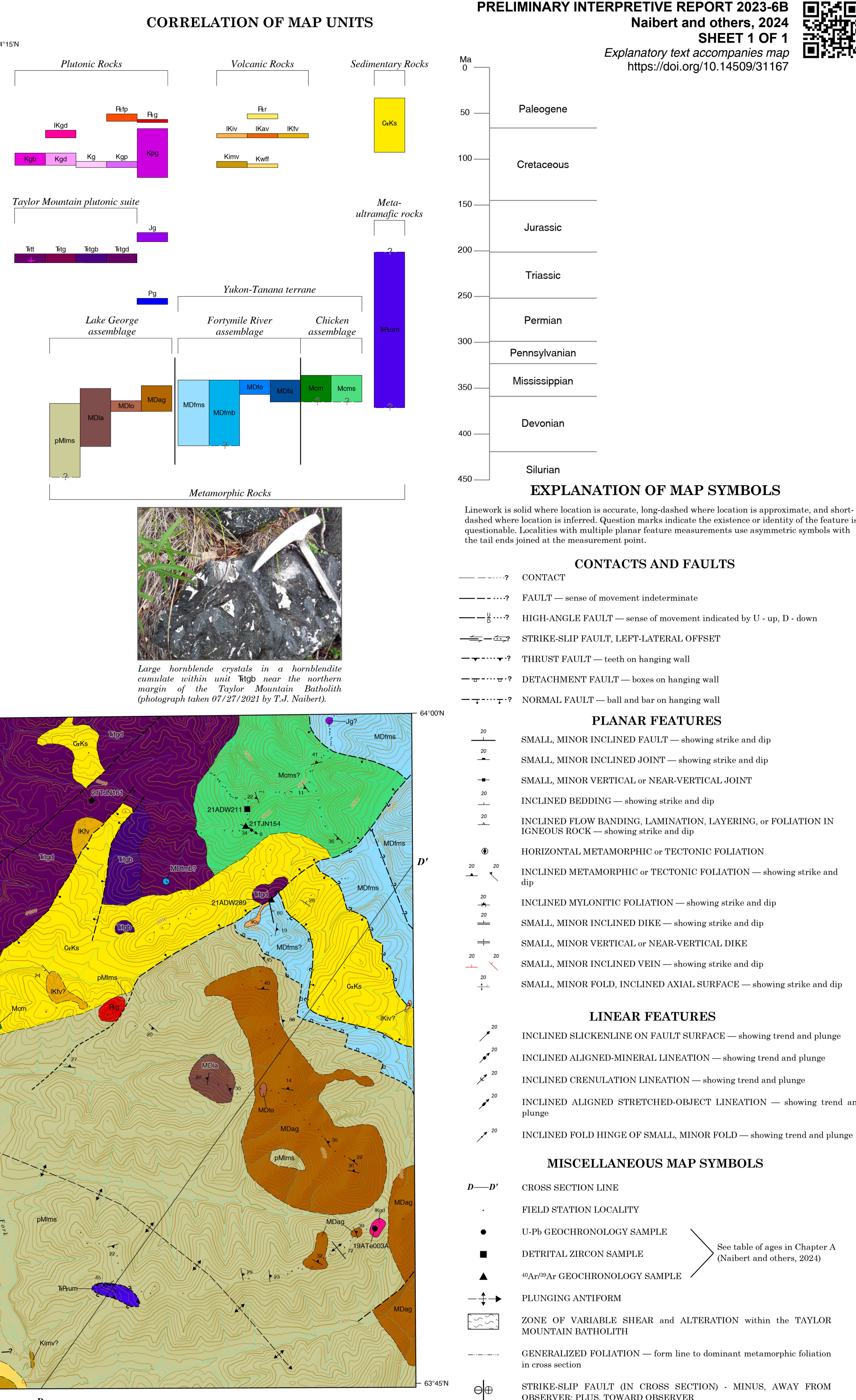
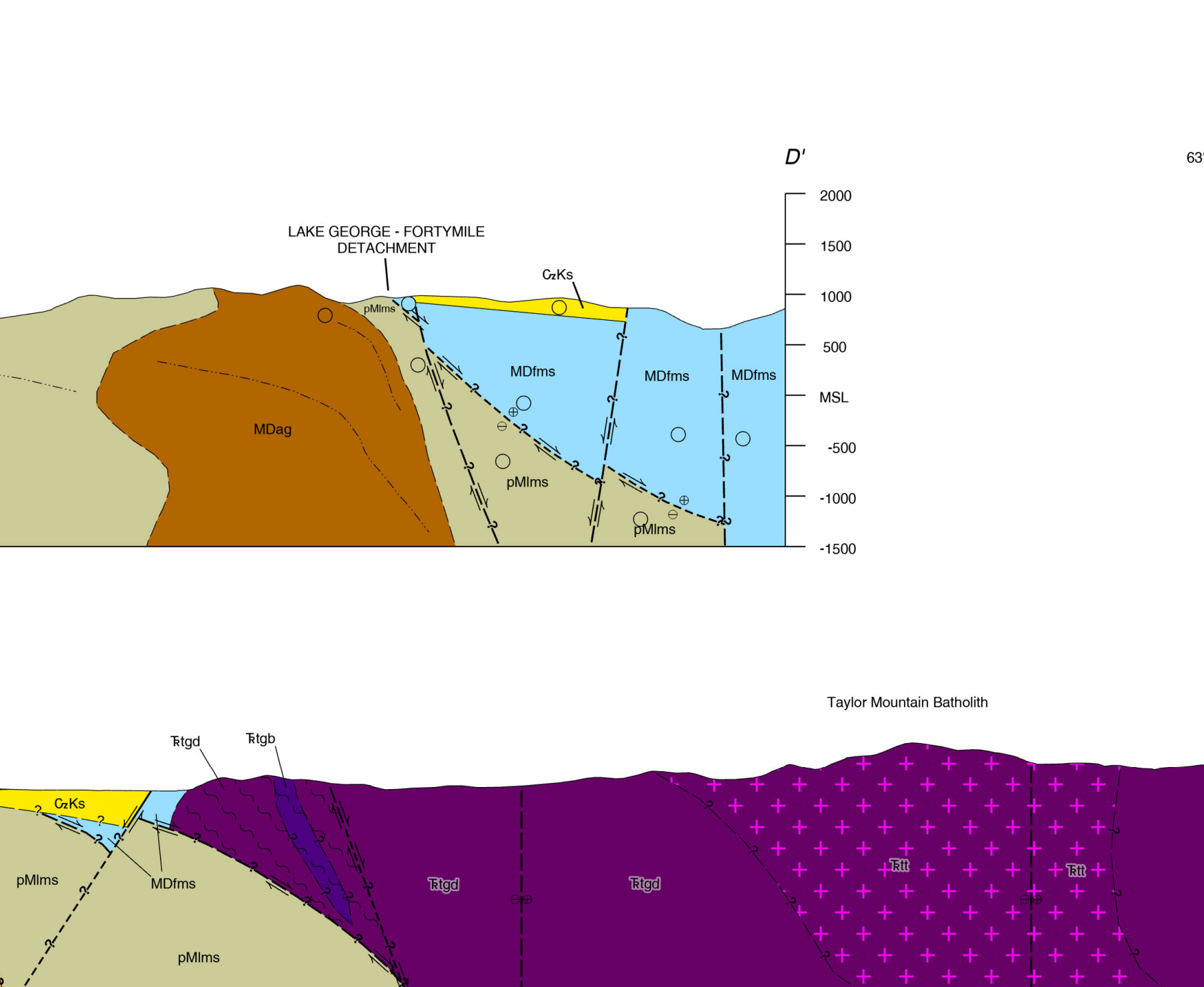
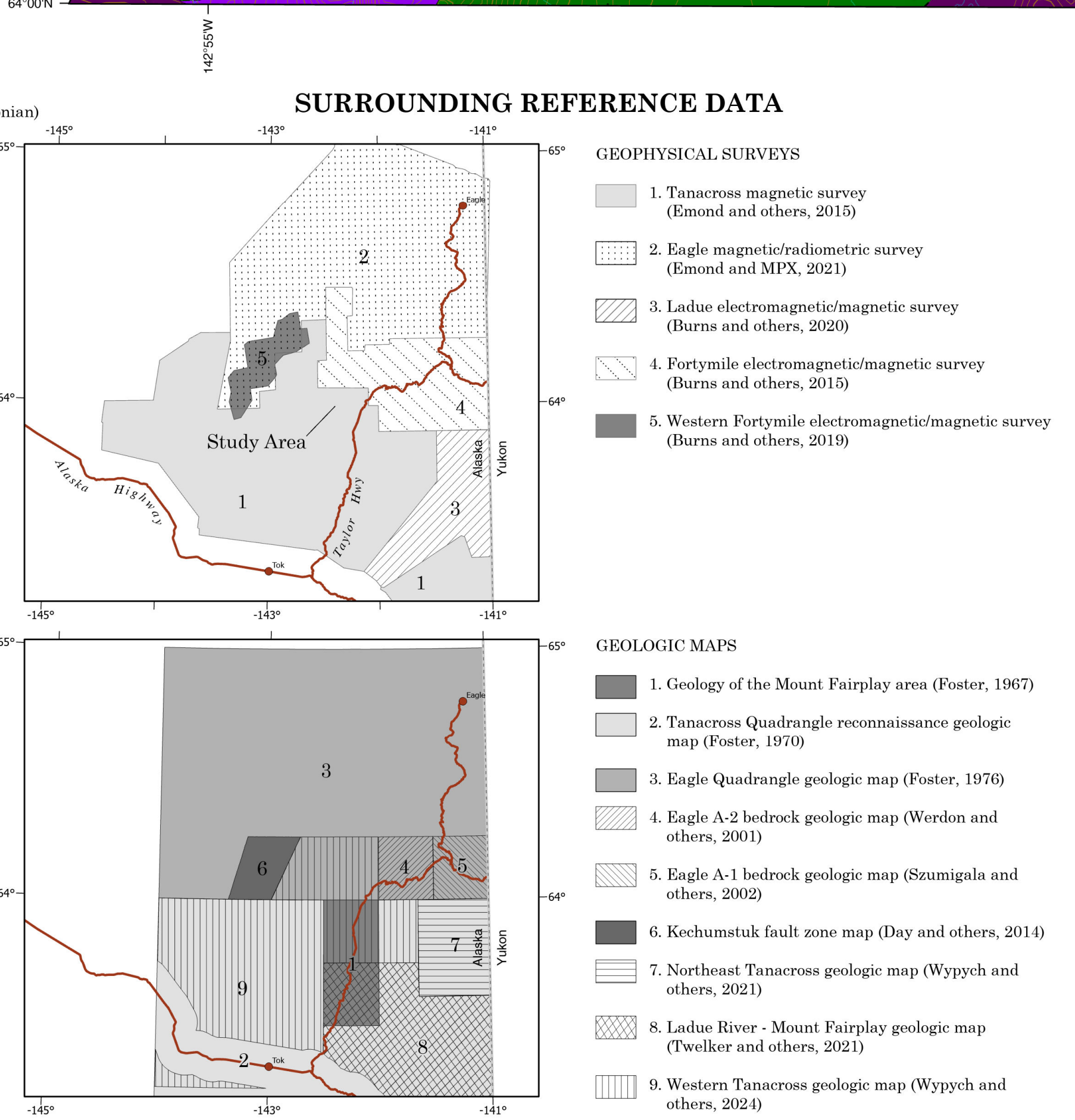
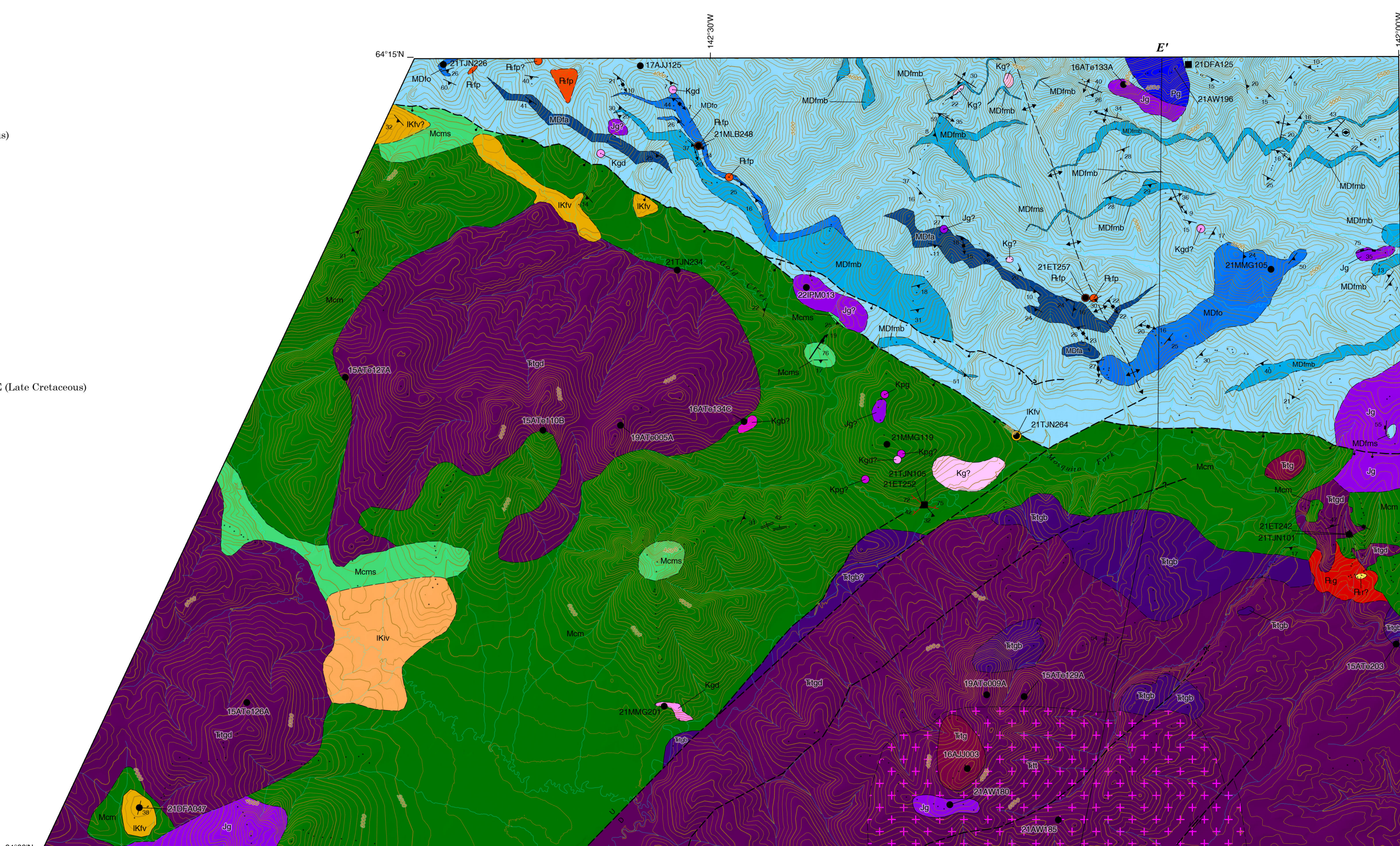
T.J. Naibert, A.D. Wildland (2022, 2023)

Cartographic review by:

A.E. Macpherson (2023)

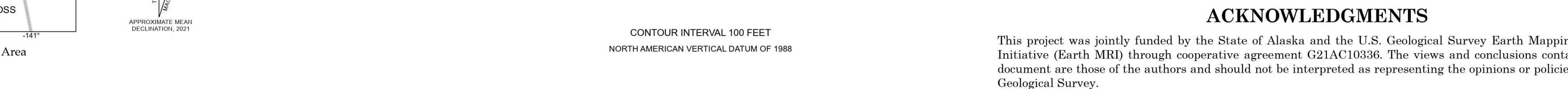
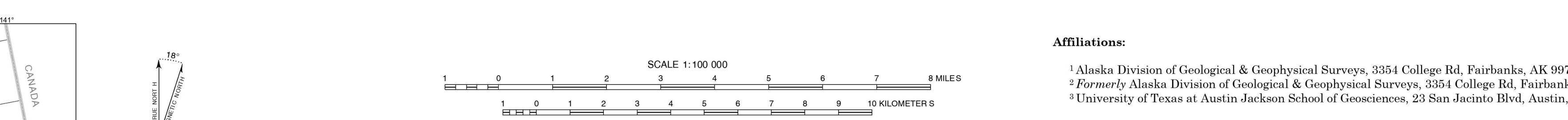
Peer review by:

J.W. Buchanan (2023)



Bedrock geologic map of the Taylor Mountain area, Eagle and Tanacross quadrangles, Alaska

by T.J. Naibert¹, Alicia Wypych¹, R.J. Newberry¹, Evan Twelker¹, M.M. Gavel¹, A.D. Wildland², M.L. Barrera¹, D.F. Avirett², S.N. Fessenden¹, I.P. Muller³, N.J.S. Blackwell², and D.J. Szumigala¹



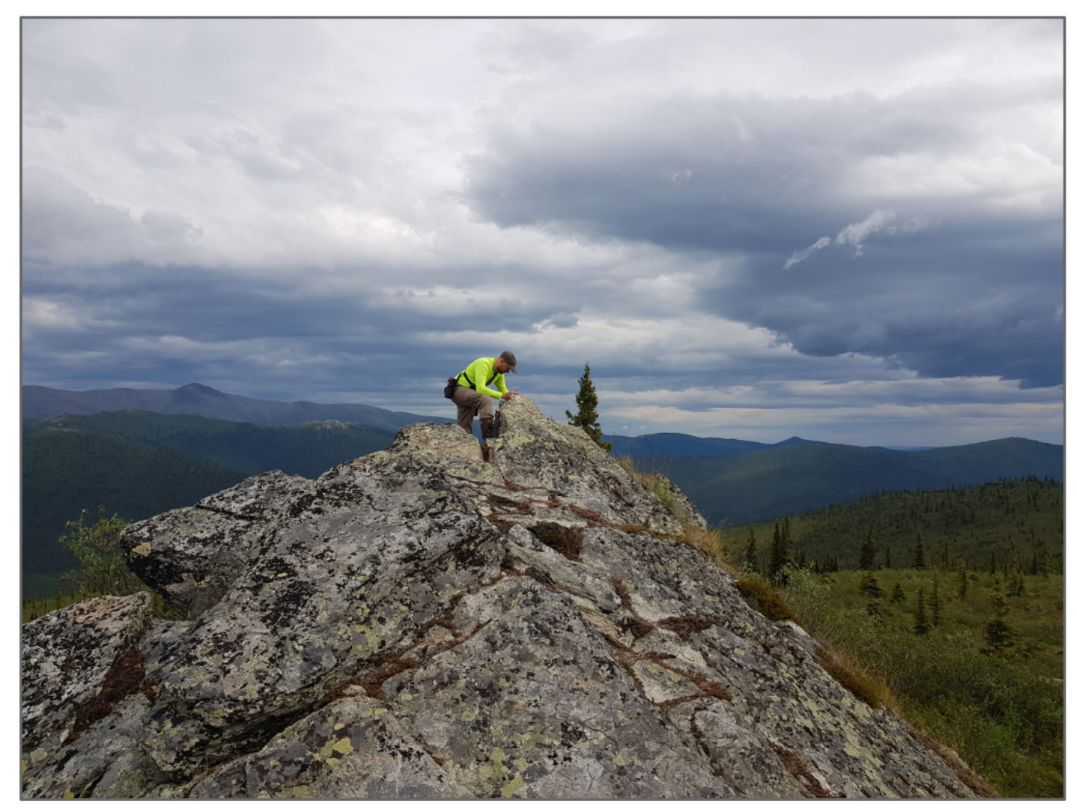
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DGGS geologist Alec Wildland inspects an outcrop of gneiss in the Fortymile River assemblage along Chicken Ridge (station 21ADW153; photograph by Evan Twelker 07/14/2021).

