

LEGEND

OVERLAP ASSEMBLAGES

Eocene (?)
FREDERICK LAKE VOLCANIC COMPLEX:

- EFV** coherent flow-banded andesitic to dacitic lavas and subvolcanic intrusions; silicic tuff and lapilli

PALEOCENE

RUBY RANGE BATHOLITH (ca. 64-57 Ma):

- PR** medium to coarse-grained, equigranular, light grey to white biotite +/- hornblende granodiorite; fine- to coarse-grained, salt and pepper, hornblende +/- biotite, quartz diorite; very coarse-grained biotite, muscovite K-feldspar pegmatite dikes; likely in part coeval with Rhyolite Creek volcanic-plutonic complex

LATE CRETACEOUS (?)

- LKgb** coarse-grained, dark brown-black, hornblende +/- biotite, plagioclase, pyroxene, gabbroic dikes and intrusions
- LKd** fine to coarse-grained hornblende diorite to tonalite with abundant garnets; locally grading into garnet amphibolite
- LKgn** medium to coarse-grained, mylonitic to weakly deformed, biotite, quartz +/- garnet, orthogneiss; dark grey weathered, dark- and light-grey banded fresh; commonly interlayered with biotite-schist or amphibolite of Snowcap Assemblage; inferred Late Cretaceous in age, but could be as old as Permian

LATE JURASSIC TO EARLY CRETACEOUS

DEZADEASH FORMATION:

- JKd** interbedded light to dark buff-grey lithic greywacke, sandstone, siltstone, thin dark grey shale, argillite and conglomerate; mass-flow conglomerate; rare light grey tuff

PALEOZOIC-MESOZOIC

- PMs** fine to medium-grained, garnet-biotite schist and metasedimentary rocks; brown to rusty weathered, dark grey fresh; layers variably richer in quartz or biotite; may result from low-grade metamorphism of rocks part of the Dezadeash Formation
- PMgn** medium to coarse-grained, orange weathered, dark grey to black, biotite-quartz-feldspar +/- kyanite-sillimanite paragneiss; fine-grained, banded grey to dark grey metasedimentary rocks

YUKON-TANANA TERRANE

PROTEROZOIC TO PERMIAN

- PPy** undivided Yukon Tanana terrane rocks; intensely deformed schist, orthogneiss, and calc-silicates rocks; greenschist to amphibolite facies

PROTEROZOIC TO DEVONIAN

SNOWCAP ASSEMBLAGE:

- PDSq** medium-grained, sugary, massive to banded and strongly folded light grey weathered quartzite; silicic metavolcanic rocks and biotite psammite schist
- PDSc** fine to medium-grained, grey-cream weathered, light grey to white metacarbonate rocks occurring as lenses and thick layers (up to several metres wide) within schist, orthogneiss, metavolcanic or metasedimentary rocks; locally associated with ultramafic rock lenses; internally strongly deformed
- PDsa** medium-grained, dark and light grey banded amphibolite gneiss with abundant garnets; fine-grained dark green to black garnet amphibolite schist; fine to medium-grained, rusty-brown weathered, dark green massive metabasalt
- PDss** fine to medium-grained, light to dark grey and brown weathered biotite, muscovite, quartz, garnet schist; locally abundant aluminosilicates (sillimanite, +/- kyanite); locally migmatitic

LEGEND EXPLANATION

- PLUTONIC SUITES:** grouping of plutonic rock units based on age, regional distribution and in some cases composition
- LAYERED ROCK ASSEMBLAGES:** regionally mappable units generally of Group or Formation rank

SYMBOLS

- geologic contact (defined, approximate).....
- geologic contact (approximate).....
- fault: strike-slip, dextral (approximate).....
- fault: movement not known (approximate).....
- thrust fault (inferred).....
- foliation (dominant/early, late).....
- mineral lineation.....
- intersection lineation.....
- crenulation lineation.....
- fold axis (microfold, z-fold).....
- bedding.....
- dike.....
- field station.....
- limited-use road or trail.....

● MINFILE Occurrences			
Number	Name	Deposit Type	Commodity/Status
115A022	KLUKSHU	Volcanogenic Massive Sulfide	undetermined
115A023	BENITO	Unknown	undetermined

REFERENCES

Kindle, E.D., 1952. Dezadeash map-area, Yukon Territory (1:253 440 scale), Geological Survey of Canada Memoir 268.

RECOMMENDED CITATION

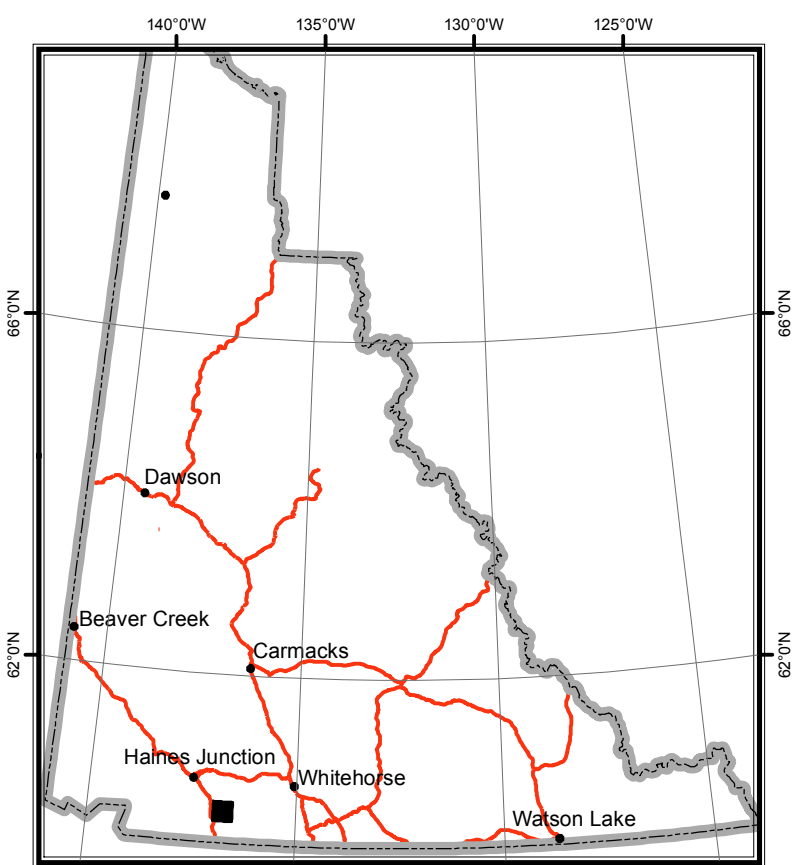
Israel, S. and Bordet, E., 2014. Preliminary geological map of the Klukshu River area, NTS 115A/07 (1:50 000 scale), Yukon Geological Survey Open File 2014-17.

Digital cartography and drafting by Steve Israel and Esther Bordet, Yukon Geological Survey.

Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey.

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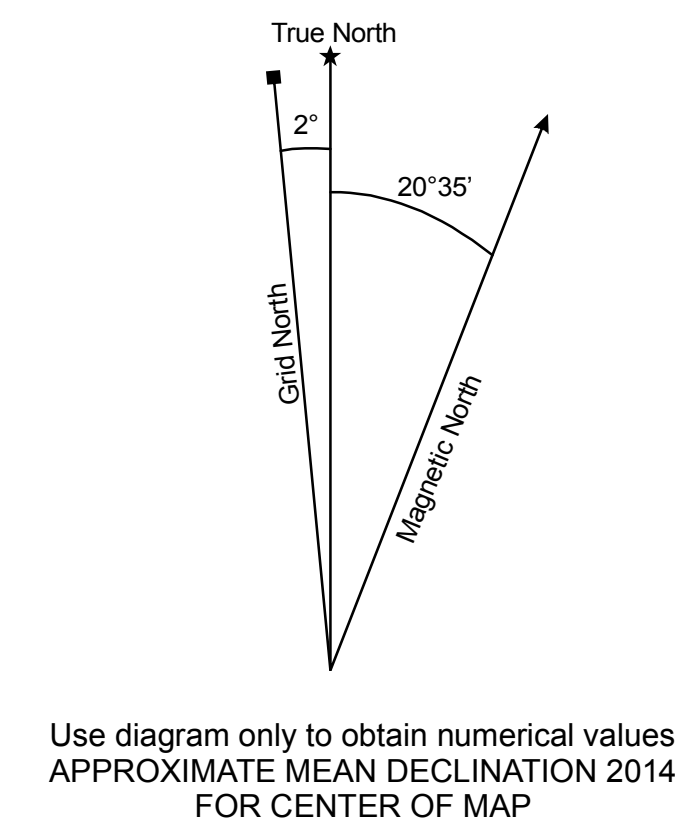
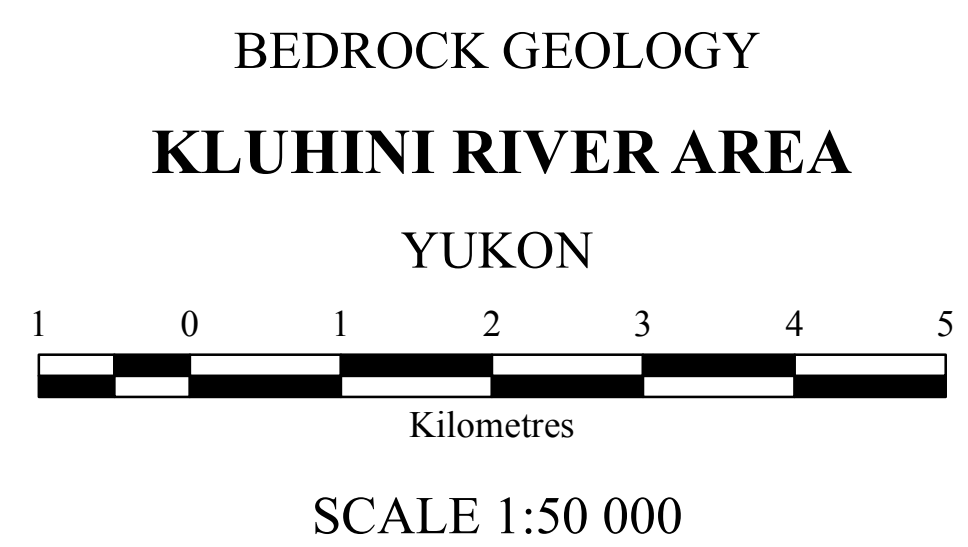
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ONE THOUSAND METRE GRID
Universal Transverse Mercator Projection
North American Datum 1983
Zone 8

CONTOUR INTERVAL 100 Feet
Elevations in feet above Mean Sea Level



Yukon Geological Survey
Energy, Mines and Resources
Government of Yukon

Open File 2014-17

Preliminary geological map of the Klukshu River area, NTS 115A/07
(1:50 000 scale)

by
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