

LEGEND

INTRUSIVE ROCKS

EARLY CRETACEOUS

Pyroxenite Creek

EKP green, medium-grained, foliated, clinopyroxene-epidote gabbro

TRIASSIC

Mount Beaton Batholith

kd medium to coarse-grained, unfoliated, hornblende diorite to hornblende-biotite, quartz diorite; salt and pepper appearance; locally abundant dark grey fine-grained gabbro; may in part be equivalent to Early Cretaceous Klusne Ranges Suite

LAYERED ROCKS

MIOCENE

Wrangell volcanics

Nw dark grey to black, fine-grained amygdaloidal basalt

Nw2 beige, fine-grained crystal-lithic tuff

WRANGELLIA

MISSISSIPPIAN TO PENNSYLVANIAN

Station Creek Formation

PPSv laminated to thinly bedded, light grey to light green volcanic tuff and volcanioclastic siltstone; local crystal-rich tuff interbedded with fine-grained volcanic ash

PPSb interbedded volcanic breccia, agglomerate and volcanioclastic sandstone; dominated by pyroxene-phyric volcanic breccia; rare light grey-weathered, dark green to black, pyroxene-phyric basalt flows

ALEXANDER TERRANE

DEVONIAN TO TRIASSIC

Iccefild assemblage

D11 fine-grained, carbonaceous muscovite-feldspar schist and carbonaceous quartz-muscovite schist

D12 thin-bedded, calcareous and carbonaceous siltstone and phyllite; rare muscovite-rich quartzite

D14 grey, thin-bedded, limestone and marble

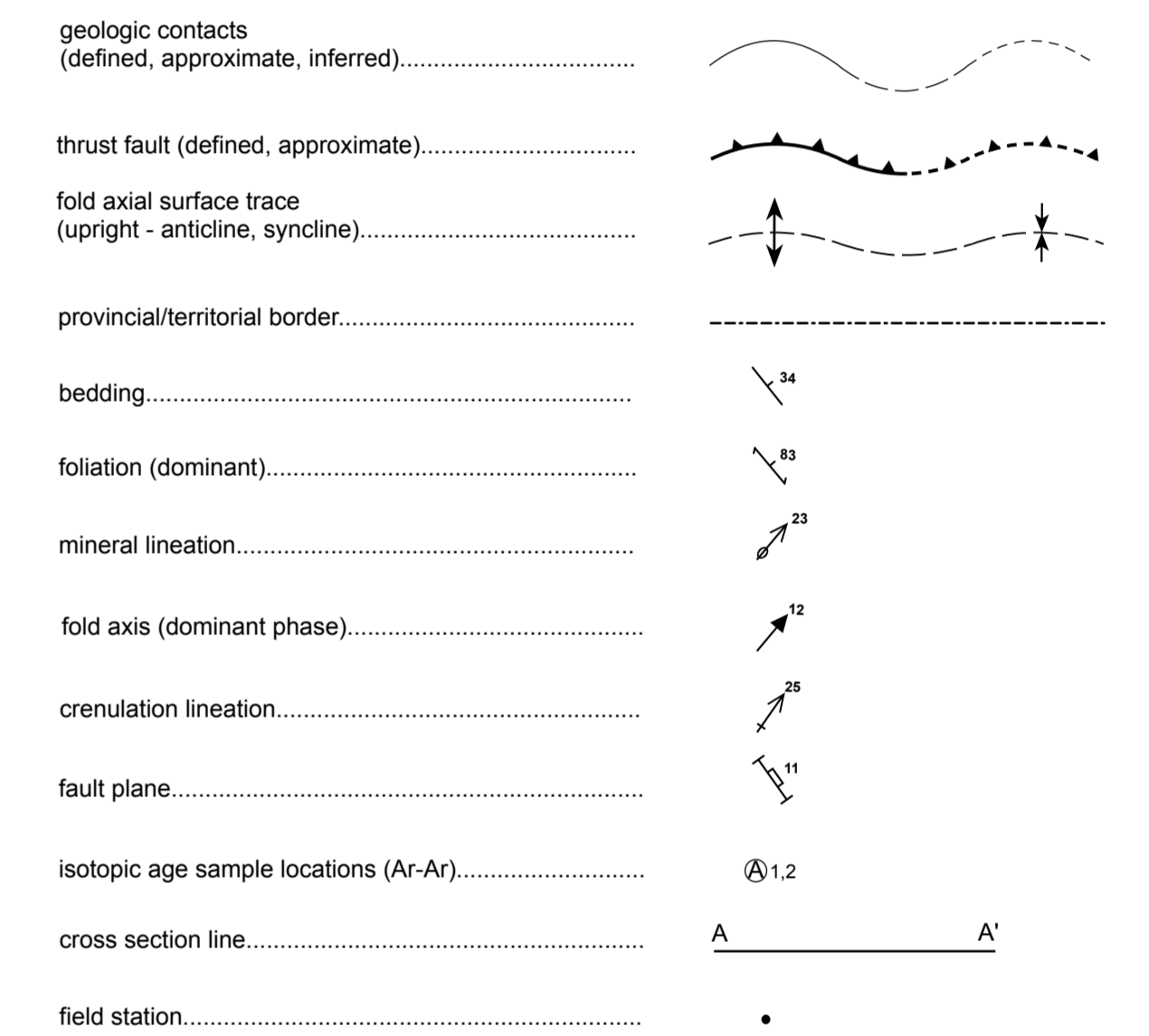
D13 undifferentiated calcareous and carbonaceous siltstone; fine- to medium-grained chlorite schist; grey banded limestone to marble

SILURIAN TO DEVONIAN

Bullion Creek limestone

SDB light grey, massive to well-bedded limestone or marble; dark grey, thin-bedded limestone or marble; minor dark blue-grey calcareous argillite or phyllite

SYMBOLS



Type	Station #	Age (Ma)	Mineral	Interpretation	Reference
1	Ar-Ar	08-RC-024-1A	82.8 ± 2.7	muscovite cooling age	Cobbett, 2011
2	Ar-Ar	08-RC-024-1B	104.6 ± 2.7	muscovite cooling age	Cobbett, 2011
3	Ar-Ar	08-RC-028-1	90.1 ± 4.3	muscovite cooling age	Cobbett, 2011

REFERENCE

Cobbett, R.N., 2011. Timing and kinematics of the Duke River fault: insights into the evolution of the Insular terrane, southwest Yukon. Unpublished MSc thesis, University of British Columbia, 140 p.

Gordley, S.P. and Makepeace, A.J. (compilers), 2003. Yukon Digital Geology, version 2.0. Geological Survey of Canada, Open File 1749, and Yukon Geological Survey, Open File 2003-9(D), 2 CD-ROMs.

Israel, S. and Cobbett, R., 2008. Bedrock geology of the Silver Creek area, Yukon (NTS 115A/3 and parts of 115A/6) (1:50 000 scale). Yukon Geological Survey, Open File 2008-21.

RECOMMENDED CITATION

Cobbett, R., 2013. Bedrock geology along the Duke River fault near Squaw Creek, Yukon and British Columbia (part of NTS 115A/03 and 114P/14) (1:10 000 scale). Yukon Geological Survey, Open File 2013-1.

Digital cartography and drafting by Rosie Cobbett, Yukon Geological Survey.

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

Paper copies of this map may be obtained from the Geoscience Information and Sales, Yukon Geological Survey, Energy, Mines and Resources, Government of Yukon, P.O. Box 2703 (K-102), Whitehorse, Yukon, Y1A 2C6, Ph. 867-667-3201, Fx. 867-667-3198, Email: geosales@gov.yk.ca

A digital PDF (Portable Document File) file of this map may be downloaded free of charge from the Yukon Geological Survey website: <http://www.geology.gov.yk.ca>.

Note: Legend shows units from Cobbett, 2011



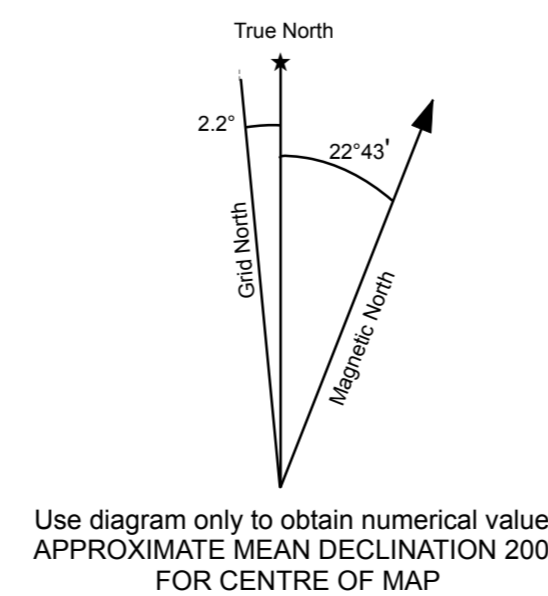
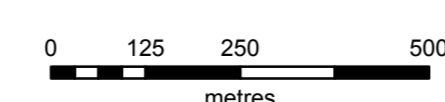
1:50 000-scale topographic base data produced by CENTRE FOR TOPOGRAPHIC INFORMATION, NATURAL RESOURCES CANADA

FIVE HUNDRED METRE GRID Universal Transverse Mercator Projection North American Datum 1983 Zone 8

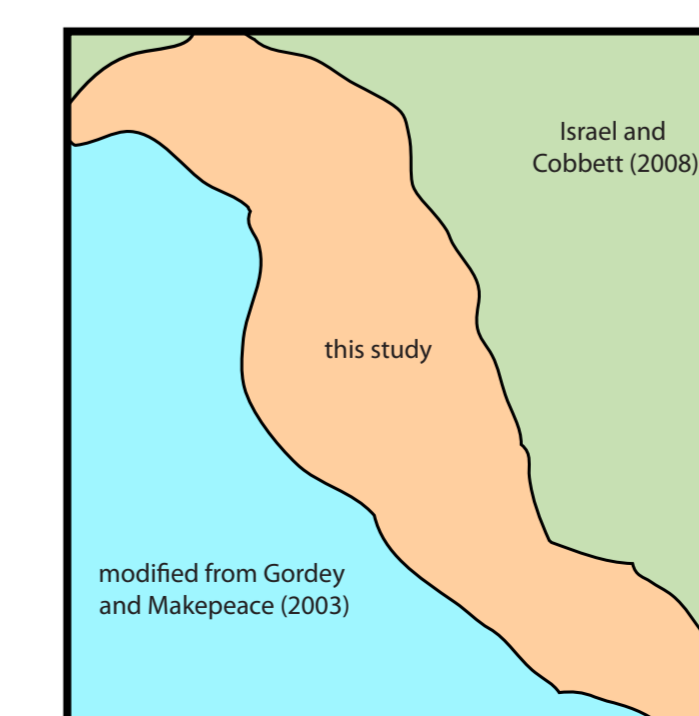
CONTOUR INTERVAL: 100 Feet - Yukon Territory 20 meters - British Columbia Elevation in feet and meters above Mean Sea Level

**BEDROCK GEOLOGY
THE DUKE RIVER FAULT
NEAR SQUAW CREEK
YUKON AND BRITISH COLUMBIA**

SCALE 1:10 000



115A/5 COTTON WOOD LAKES	115A/6 MUSH LAKE	115A/7 KLUHNI RIVER
115A/4 BATES RIVER	THIS MAP	115A/2 TAHKANNE RIVER
114P/13 RANGE LAKE	114P/14 SURVEY LAKE	114P/15 PARTON RIVER



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Bedrock geology along the Duke River fault near Squaw Creek, Yukon & British Columbia (part of NTS 115A/3 & 114P/14) (1:10 000 scale)

by
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