

Note: lines represent average foliation planes (DTI4) and bedding planes (PHc)

LEGEND

INTRUSIVE ROCKS

EARLY CRETACEOUS

Pyroxenite Creek

EKP medium to coarse-grained, hornblende gabbro

LAYERED ROCKS

WRANGELLIA

PERMIAN

Hasen Creek Formation

PHc black, thin-bedded chert and mudstone; grey, thin-bedded limestone

ALEXANDER TERRANE

DEVONIAN TO TRIASSIC

Icefield assemblage: Silver Creek member

DTI7 green and maroon, foliated, pebble conglomerate with clasts of chert, fine-grained, micaceous phyllite and feldspar-rich siltstone; green, fine-grained, banded tuff; green, fine to medium-grained volcanoclastic sandstone

DTI7b grey to brown, coarse-grained lithic sandstone to pebble conglomerate dominated by chert and siltstone clasts

Icefield assemblage

DTI2 dark grey to black, fine-grained, carbonaceous siltstone to shale; dark grey, thin-bedded chert

DTI4 grey, banded limestone to calcareous siltstone

DTI5 white, foliated gypsum

DTI6 white to light grey, massive to banded marble

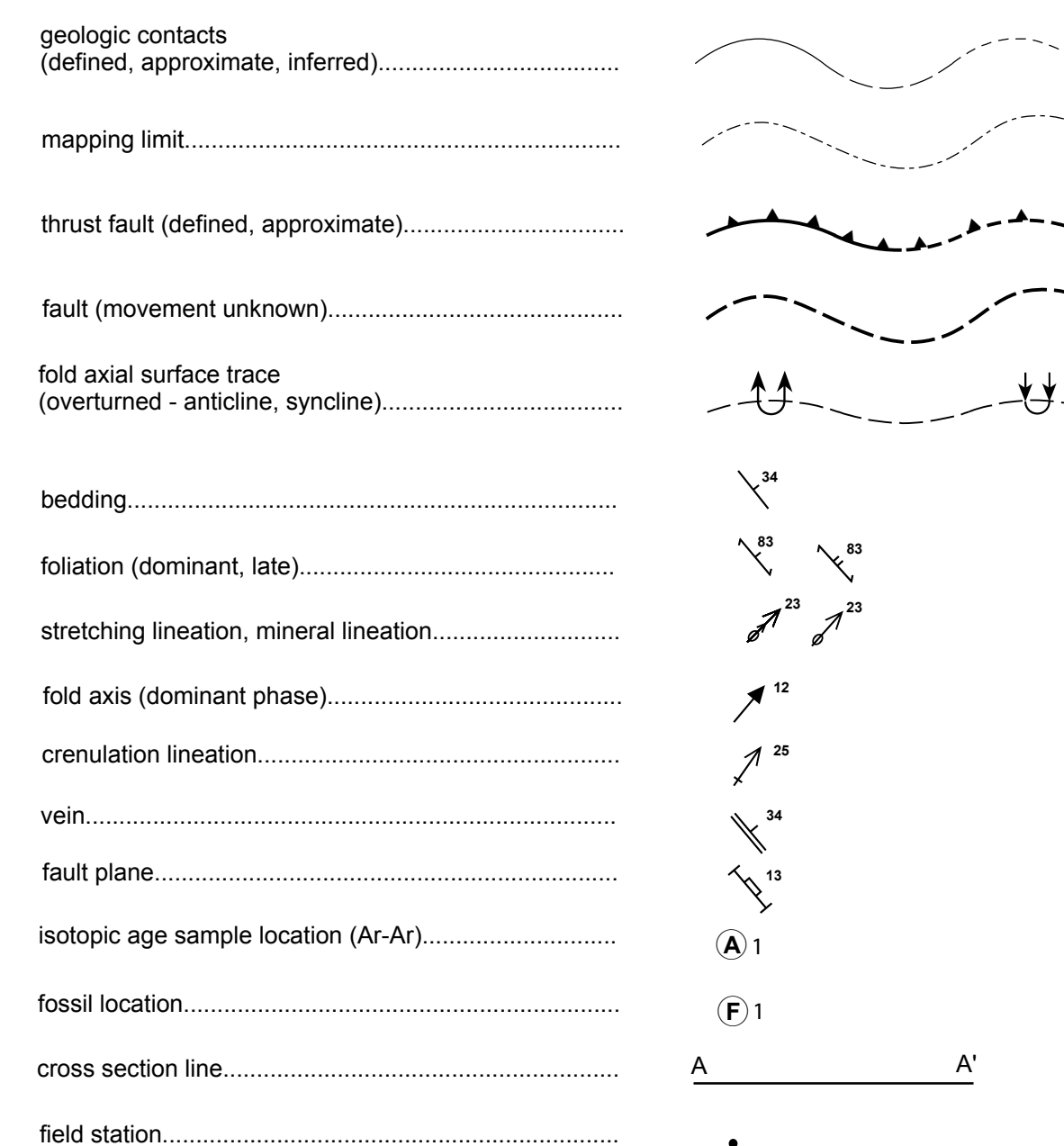
DTI6b orange to beige breccia dominated by marble clasts and cemented by calcite

SILURIAN TO DEVONIAN

Bullion Creek limestone

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

SYMBOLS



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 Unpublished MSc thesis, University of British Columbia, 140 p.

Dodds, C.F. and Campbell, R.B., 1992. Geology of Mount St. Elias map area (115B and F[E1/2]), Yukon Territory. Geological Survey of Canada, Open File, 2189, 1:25 000 scale.

Dodds, C.F., Campbell, R.B., Read, P.B., Orchard, M.J., Tozer, E.T., Bamber, E.W., Pedder, A.E.H., Norford, B.S., McLaren, D.J.; Harker, P., McIver, E., Norris, A.W., Ross, C.A., Chatterton, B.D.E., Copper, G.A., Flower, R.H., Haggart, J.W., Uyeno, T.T., and Irwin, S.E.B., 1993. Macrofossil and conodont data from: SW Klunene Lake (115G and F (East half)), Mount St. Elias (115B and C (East half)), SW Dezadeash (115A), NE Yakutat (114O) and Tatshenshini River (114P) map areas, southwestern Yukon and northwestern British Columbia. Geological Survey of Canada, Open File 2731, 137 p.

RECOMMENDED CITATION

Cobbett, R., 2013. Bedrock geology along the Duke River fault near Silver Creek, Yukon (part of NTS 115B/16) (1:10 000 scale). Yukon Geological Survey, Open File 2013-2.

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.

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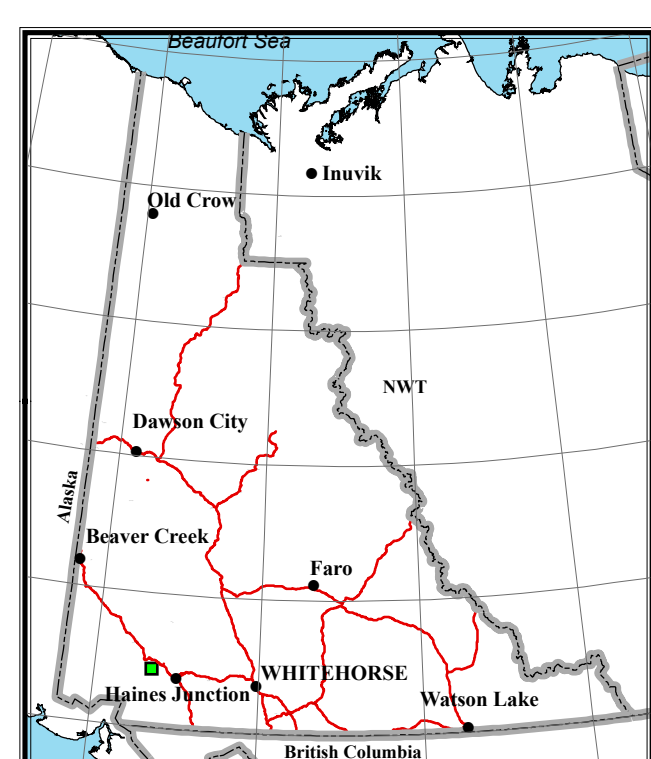
Yukon Geological Survey
Energy, Mines and Resources
Government of Yukon

Open File 2013-2

**Bedrock geology along the Duke River fault
near Silver Creek, Yukon (part of NTS 115B/16)
(1:10 000 scale)**

by

Rosie Cobbett



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

FOUR HUNDRED METRE GRID
Universal Transverse Mercator Projection
North American Datum 1983
Zone 7

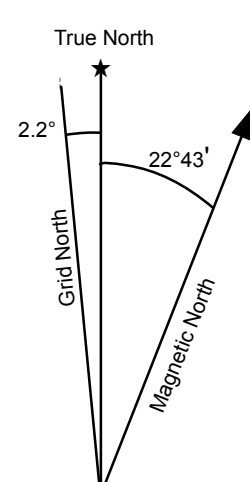
CONTOUR INTERVAL 40 m
Elevations in metres above Mean Sea Level

Note: Legend units are from Cobbett, 2011 and Dodds and Campbell, 1992

Isotopic Age Determinations						
Type	Station #	Age	Mineral	Interpretation	Reference	
1	Ar-Ar	09-RC-044	120.6 ± 1.5Ma	hornblende	cooling age	Cobbett, 2011

Fossil Age Determinations						
Type	Station #	Age	Fossil	Interpretation	Reference	
1	Macro	123-CAB-77	indeterminate	digitate organisms	cooling age	Dodds et al., 1993

115G/02	115G/01	115H/04
CONGDON CREEK	CULTUS CREEK	MCKINLEY CREEK
115B/15	115B/16	115A/13
SLIMS RIVER	THIS MAP	KLOO LAKE
115B/10	115B/09	115A/12
MOUNT VEACOCK	AIRDROP LAKE	AURIOL RANGE



Use diagram only to obtain numerical values
APPROXIMATE MEAN DECLINATION 2008
FOR CENTRE OF MAP

BEDROCK GEOLOGY THE DUKE RIVER FAULT NEAR SILVER CREEK YUKON

SCALE 1:10 000

