

LEGEND

QUATERNARY

Q Unconsolidated alluvium, colluvium and glacial deposits

INTRUSIVE ROCKS

PENNSYLVANIAN AND/OR PERMIAN

PP_{um} Yellow-green weathering, pale green to tan, variably serpentinized ultramafic rock. Texture varies from scaly and foliated to massive, with pseudomorph after orthopyroxene. Intrusive contacts locally preserved. Nephrite jade locally developed near basal contact.

PP_g Medium- to coarse-grained, foliated actinolite-plagioclase-chlorite meta-gabbro

LAYERED ROCKS

MID-PERMIAN

mP_{ogl} Red known to pale green matrix- and framework-supported polymictic conglomerate, pale green sandstone and lesser dark grey shale. Conglomerate clasts include porphyritic basalt, aphyric massive basalt, chloritic phyllite, quartz-mica phyllite, siliceous carbonaceous phyllite, carbonate, white tuff quartz and chert. Clasts of serpentinite, blueschist and eclogite have been reported from this unit elsewhere (Mortensen, Erdmer and Ghent, 1997). Mid-Permian conodonts have been reported from this unit in Watson Lake map area (J. Mortensen, pers. comm., 2000).

unconformity or fault

PENNSYLVANIAN and/or LOWER PERMIAN

PP_{ctb} Variably foliated mafic meta-volcanic rock ranging from foliated pale to medium green chloritic phyllite to massive weakly foliated aphyric meta-basalt. Mn- to dm-scale lenses of carbonate (amygdales?) throughout. Age unknown, but resembles foliated meta-basalt of the Campbell Range succession (unit PPC₂ of Murphy and Piercy, 1999).

PPC_{7g} Ferruginous tectonite-clast pebble and cobble breccia, conglomerate, gritty sandstone and red phyllite-matrix diamictite overlain by light grey quartz sandstone interbedded with quartz-pebble conglomerate. Chocolate brown dolomitic sandstone and brown-grey siliceous phyllite/chert occur locally. Siliceous tectonite clasts are identical to underlying unit P_{ch}.

unconformity

F_{ch} Foliated and lineated grey, black and white argillite and chert. Uncommon lenses of brown carbonate. In 105H45, this unit also comprises pink, green and tan chert; dark argillite and chert-pebble conglomerate. May be equivalent to unit P_{cd}.

Jules Creek Thrust

P_{cd} Dark grey to black carbonaceous argillite, dark grey chert, dark grey matrix-supported diamictite, grey chert-pebble conglomerate, grey-brown, poorly sorted, quartzofeldspathic greywacke, uncommon tan quartz sandstone. Uncommon limestone-pebble conglomerate at base.

unconformity?

P_c Massive to thickly bedded, light to medium grey, light grey-weathering marble. Locally crinoidal. Pennsylvanian to Early Permian conodonts have been reported from this unit elsewhere (Orchard, M. in Gordey and Makepeace, 1999).

MISSISSIPPIAN

M_v Light to medium green, locally quartz- and feldspar-phyric, intermediate meta-volcanic rocks. Locally, this unit comprises maroon and green tuff breccia. A Mississippian U-Pb age has been reported for a similar tuff breccia in 105H4, south of the area mapped (Mortensen, 1992).

M_{ch} Dark grey argillite and chert

M_{gc} Pale to olive green, locally magnetite-bearing chert and argillite

Mc Light grey-weathering, light to medium grey massive marble

SYMBOLS

Geological contacts (defined, approximate, assumed, covered).....

Fault (defined, approximate, inferred, covered).....

Limit of outcrop.....

Limit of mapping.....

Bedding.....

Dominant foliation (inclined, vertical).....

Fold axial surface trace (anticline: upright, overturned; syncline: upright, overturned).....

Line of cross-section.....

U-Pb age date..... 356.9 ± 0.6 Ma
Mortensen, in Gordey and Makepeace (1999)

MINERAL OCCURRENCES

Yukon Minfile (1997)

105H 015	◆	DOUGIEVA	Cu vein
105H 080	◆	KNEIL	Zn, Pb, Cu
105H 085	★	BEANS	work target

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RECOMMENDED CITATION

MURPHY, D. C., 2000. Preliminary geological map of T'uchitua River North' area (105H/4), southeastern Yukon (1:50 000 scale), Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 2000-16.

Digital cartography and drafting by D.C. Murphy, Yukon Geology Program.

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

Copies of this map, the accompanying report and Yukon Minfile may be purchased from the Geoscience Information and Sales, c/o Whitehorse Mining Recorder, Indian and Northern Affairs, Canada, Room 102-300 Main St, Whitehorse, Yukon, Y1A 2B5. Ph. 867-667-3266, Fx. 867-667-3267.

Store this map in a dark area to prevent colours from fading.

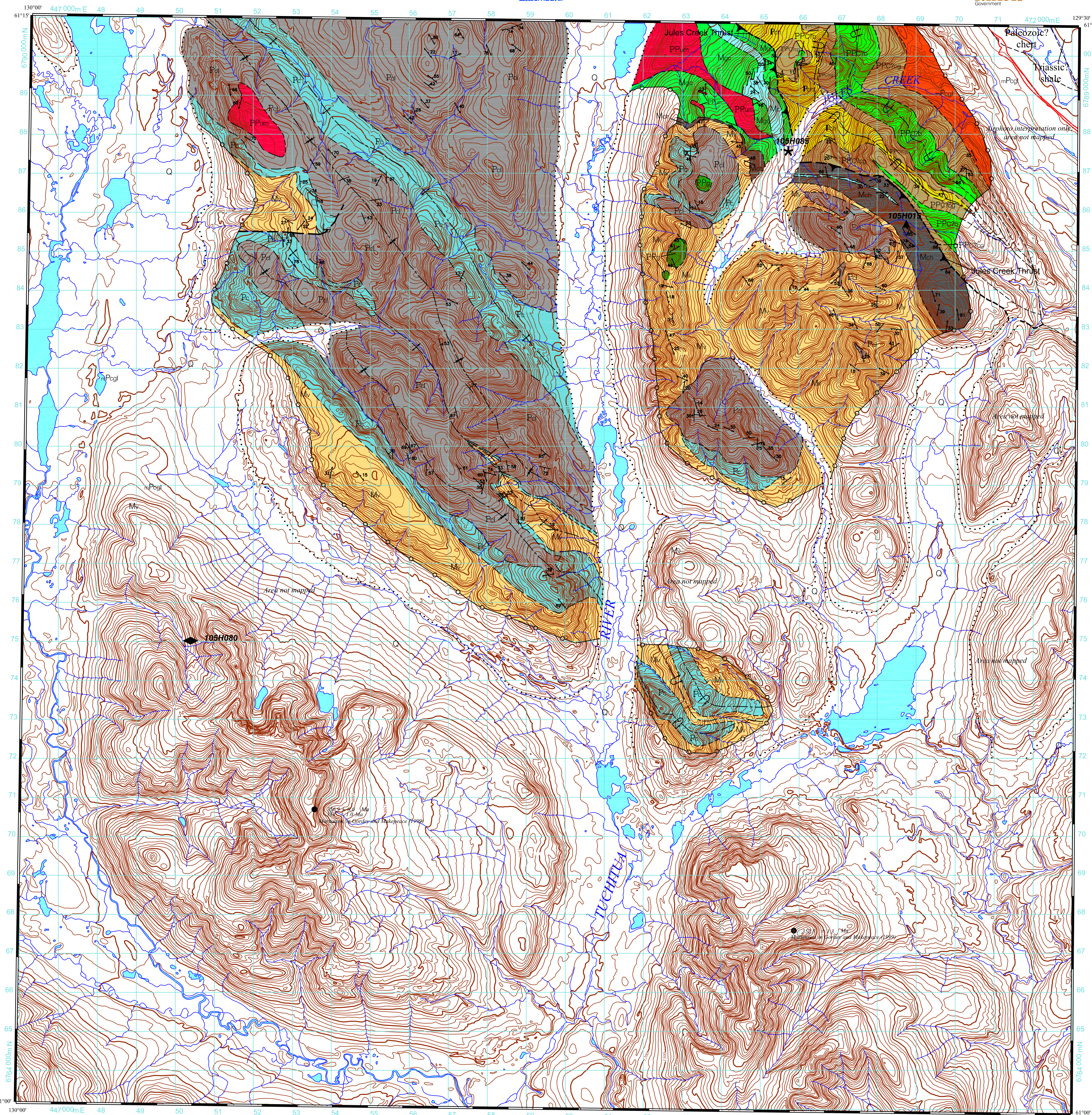
Indian and Northern Affairs Canada
Exploration and Geological Services Division
Yukon Region

Open File 2000-16

Preliminary geological map of part of
'Tuchitua River North' area (105H/4),
southeastern Yukon (1:50 000 scale)

by

Donald C. Murphy
Yukon Geology Program

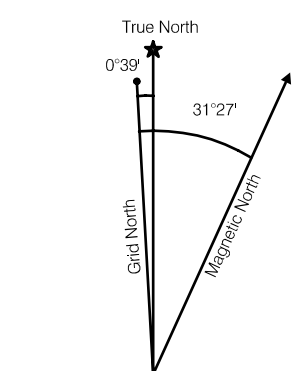


'TUCHITUA RIVER NORTH'
YUKON TERRITORY
SCALE 1:50 000

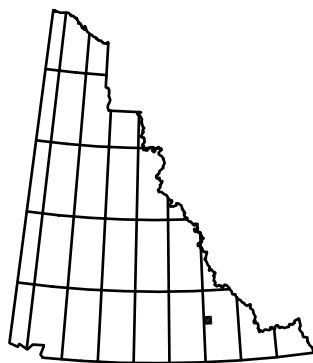
Miles 1 0 1 2 3

Metres 1000 0 1000 2000 3000 4000

CONTOUR INTERVAL 20 METRES
Elevations in metres above Mean Sea Level
North American Datum 1983
Transverse Mercator Projection



105 G/8	105 H/5	105 H/6
105 G/1	105 H/4 THIS MAP	105 H/3
105 B/16	105 A/13	105 A/14



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ONE THOUSAND METRE
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ZONE 9

Use diagram to obtain numerical values
APPROXIMATE MEAN DECLINATION 1985
FOR CENTRE OF MAP
Annual change decreasing 0.3