

LEGEND

PLUTONIC ROCKS

MID-CRETACEOUS

mKgH **HYLAND SUITE:** biotite granodiorite, quartz monzonite, porphyritic diorite, minor hornblende quartz diorite, quartz syenite

SEDIMENTARY AND METASEDIMENTARY ROCKS

QUATERNARY

Q **UNDIVIDED:** unconsolidated glacial, glaciofluvial, and glacioclastic deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

ORDOVICIAN TO LOWER DEVONIAN

ODR **ROAD RIVER GROUP:** black shale, calcareous shale, dolomitic siltstone, chert, and minor limestone

UPPER CAMBRIAN TO ORDOVICIAN

COR **RABBITKETTLE FORMATION:** thin-bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey, quartzose siltstone and chert, and rare black slate

LOWER CAMBRIAN

ICG **GULL LAKE FORMATION, upper member:** rusty-weathering, chocolate-brown-weathering, dark brown to black shale, grey-weathering, laminated, bioturbated mudstone-siltstone; thin to medium beds of limestone near base

ICGb **GULL LAKE FORMATION, basal member:** boulder conglomerate comprising grey limestone clasts in a siliciclastic, variably calcareous matrix; limestone; medium to thick-bedded quartz arenite

NEOPROTEROZOIC TO LOWER CAMBRIAN

PCHN **NARCHILLA FORMATION:** green, maroon, and grey, well-cleaved, rhythmically-bedded shaly mudstone-siltstone and phyllite; white weathering, thin to medium-bedded, planar and cross-bedded sandstone

PCHYu **YUSEZYU FORMATION, UPPER, (undivided):** grey and pale green phyllite, sandstone, granule and pebble conglomerate; calcareous phyllite, siltstone and sandstone; silty and sandy limestone

PCHYa **YUSEZYU FORMATION, amphibolite:** grey to greyish black, dark grey-green, medium to coarse-grained amphibolite and garnet amphibolite; commonly contains biotite

PCHYl **YUSEZYU FORMATION, feld limestone:** thin, locally medium-bedded, medium to dark grey, commonly feld limestone; includes calcilutite, calcarenite and calcirudite; brownish-grey silty/sandy limestone

PCHYl **YUSEZYU FORMATION, LOWER, (undivided):** grey, rusty-brown-weathering phyllite, sandstone, granule-pebble conglomerate

stippling indicates regions that comprise a mix of country rock and unit mKgH; in these regions, dykes, sills, and other small bodies of mKgH form 25-75% of the rock

NOTES

Field work completed during the summer of 2017. Geology by C. Padget with additional information from Moynihan, 2016 and Roots et al., 1966.

Assistance in the field was provided by Pia Blake and Geoff Costigan.

REFERENCES

MOYNIHAN, D., 2016. Bedrock Geology of the upper Hyland River area, NTS 105H/07, 105H/09, 105H/10, 106H/15, 105H/16, 105H/02, southeastern Yukon. Yukon Geological Survey, Open File 2016-36, 1:50 000 scale.

ROOTS, E.F., GREEN, L.H., RODDICK, J.A. and BLUSSON, S.L., 1966. Geology, Frances Lake, Yukon Territory and district of Mackenzie. Geological Survey of Canada, Preliminary Map 6-1966, scale 1:253 440.

RECOMMENDED CITATION

PADGET, C., 2018. Bedrock geology and metamorphism of the Anderson Lake area, parts of NTS 105H/07, 105H/10, and 105H/11, southeastern Yukon. Yukon Geological Survey, Open File 2018-19, 2 sheets, scale 1:50 000.

Digital cartography and drafting by Colin Padget, University of Calgary.

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

A paper copy of this map may be obtained from the Yukon Geological Survey, Energy Mines and Resources, Government of Yukon, Room 102, 300 Main Street, Whitehorse, Yukon, Y1A 2B5. Email: geology@gov.yk.ca

SYMBOLS

geologic contacts
(defined, approximate, inferred, covered).....

fault, movement not known
(defined, approximate, inferred, covered).....

normal fault
(defined, approximate, inferred, covered).....

bedding..... 12

foliation (dominant, late)..... 12 12

crenulation lineation..... 12

elongation or mineral lineation..... 12

intersection lineation..... 12

fold axis (main phase, late)..... 12 12

fold axial plane..... 30

anticline (upright, overturned).....

syncline (upright, overturned).....

field station.....

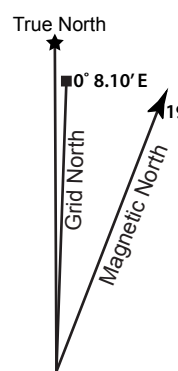
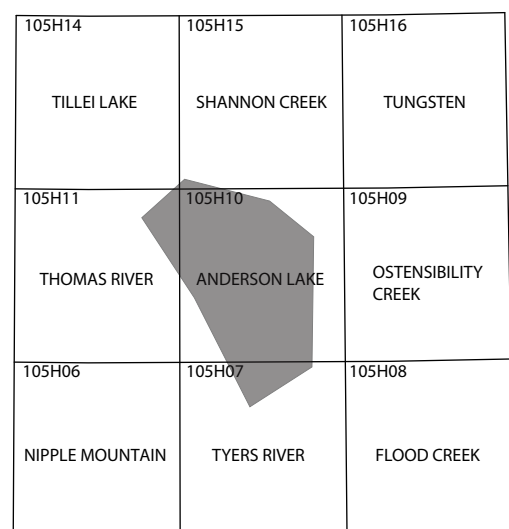
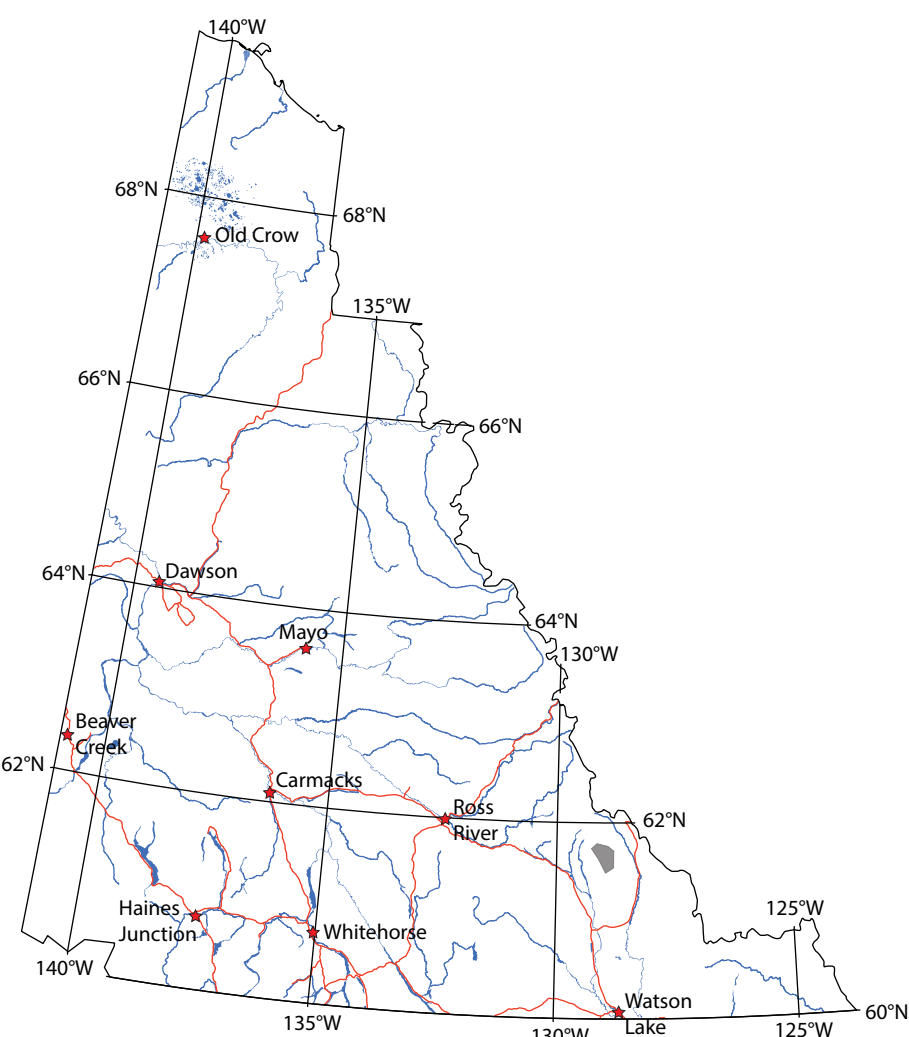
REGIONAL METAMORPHIC ISOGRADS

(see page 2 for details)

Andalusite (approximate, inferred)..... And-in

Sillimanite (approximate, inferred)..... Sil-in

Alkali Feldspar (approximate, inferred)..... Kfs-in



Use diagram only to obtain numerical values
APPROXIMATE MEAN DECLINATION 2018
FOR CENTRE OF MAP

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

ONE THOUSAND METRE GRID
Universal Transverse Mercator Projection
North American Datum 1983
Zone 9

CONTOUR INTERVAL: 20 METRES
Elevations in metres above Mean Sea Level

**BEDROCK GEOLOGY
PARTS OF NTS 105H/07, 105H/10 & 105H/11
YUKON**

1:50 000

