

LEGEND

QUATERNARY

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

OVERLAP ASSEMBLAGES

PALEOCENE

RHYOLITE CREEK COMPLEX (ca. 57 Ma):

PRp light grey to purple quartz-feldspar porphyry; quartz is commonly smoky grey and up to 3 mm in diameter; occurs as narrow dykes to large intrusive bodies; may include porphyritic intermediate and felsic volcanic rocks

PRv1 light grey, green, maroon, purple and black rhyolite and dacite; locally flow banded; commonly a breccia with clasts of rhyolite within a crystal rich matrix; may include intrusive equivalents

PRv2 maroon to reddish purple (weathered and fresh), fine to very coarse grained andesite, brecciated with clasts of feldspar-rich andesite in a matrix of the same composition; locally includes feldspar porphyry dykes of andesitic composition

PRv3 dark grey to black weathered, very fine grained basalt, geographically limited to areas east of Porphyry Peak

PRv4 basal conglomerate/breccia; rounded to angular clasts of underlying metamorphic rocks within a sandy volcanoclastic matrix

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

PR fine to coarse-grained, salt and pepper; hornblende +/- biotite, quartz diorite, rare garnets, medium-grained, light grey to pinkish biotite +/- hornblende granodiorite; fine to medium-grained, beige to grey tonalite with distinctive smoky grey quartz; pinkish/grey, biotite granite; likely in part coeval with Rhyolite Creek volcanoplutonic complex

YUKON-TANANA TERRANE

MISSISSIPPIAN (?) or PERMIAN (?)

Mgn medium to coarse-grained hornblende-biotite quartz-diorite and diorite orthogneiss; occurs as strongly deformed lenses within Snowcap assemblage

UPPER DEVONIAN TO LOWER MISSISSIPPIAN

FINLAYSON ASSEMBLAGE:

DMF polydeformed and metamorphosed mafic to felsic metavolcanic rocks; carbonaceous pelite, quartzite and psammite; quartz-muscovite schist; rare metaplutonic rocks; garnets found locally

DMFc white to cream-coloured, fine to coarse-grained marble; strongly deformed and metamorphosed; locally silicified; occurs as lenses and large bodies within carbonaceous schist and amphibolite

UPPER DEVONIAN AND OLDER

SNOWCAP ASSEMBLAGE:

PDS polydeformed and metamorphosed quartzite, psammite and pelite; minor garnet amphibolite; quartz-muscovite schist; rare metaplutonic rocks

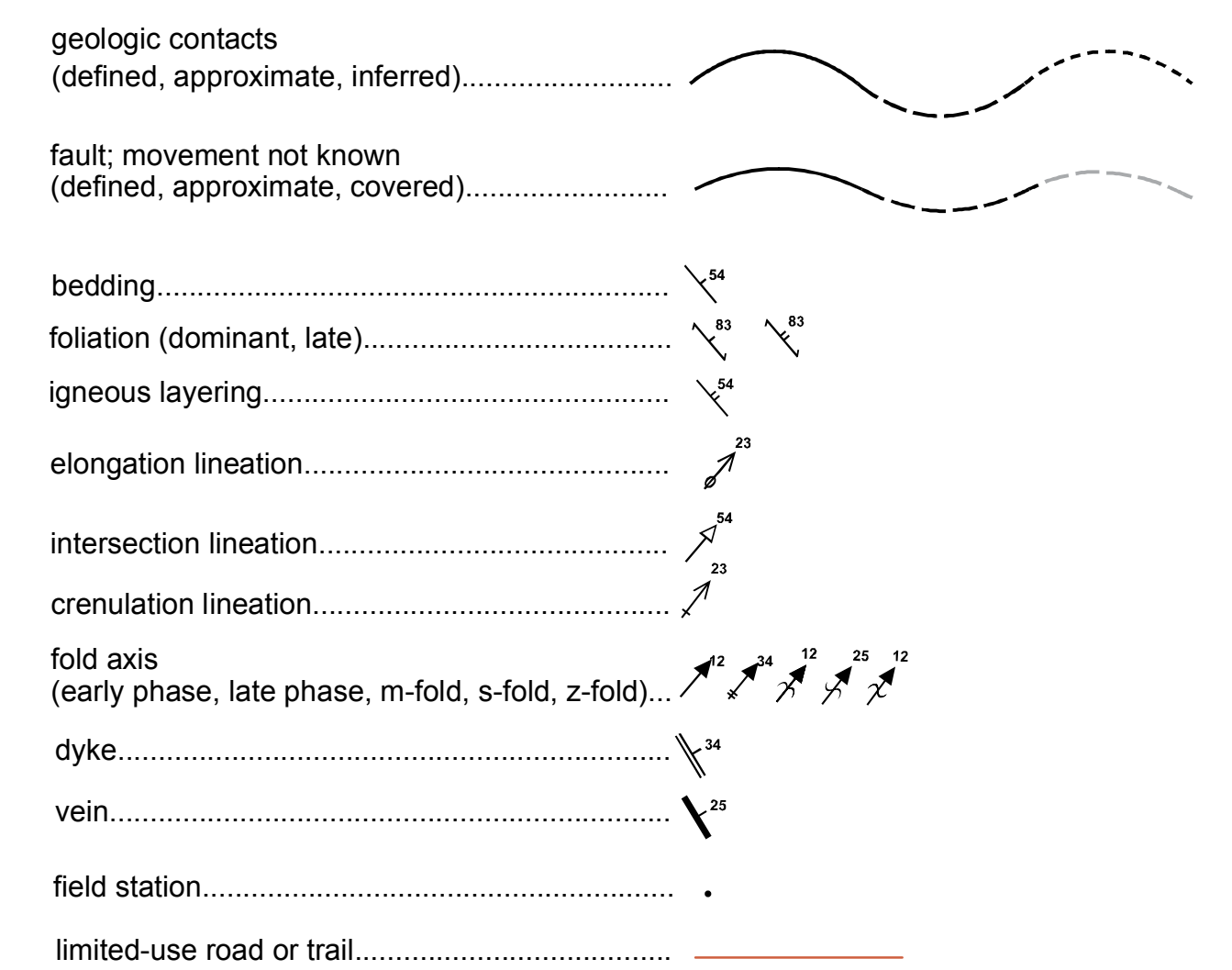
PDSc light grey and cream weathered marble; occurs as lenses within quartzite and psammite to pelitic schist

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



MINFILE Occurrences

(November, 2011)

Number	Name	Deposit Type	Commodity/Status
115H045	Al	Au-Quartz Veins	◊ Au, Ag, Showing
115H036	Bilquist	Porphyry	◻ Cu, Mo/Unknown
115H029	Occident	Porphyry	◻ Cu, Mo/Anomaly
115H028	Canopus	Porphyry	◻ Cu, Mo/Anomaly
115H027	Poplar	Porphyry	◻ Mo, Zn/Anomaly
115H026	Thatch	Skarn	◉ Au, Ag, Cu/Drilled prospect

ACKNOWLEDGEMENTS

This map is a Yukon Geological Survey contribution to the Geological Survey of Canada Geo-mapping for Energy and Minerals (GEM) program, Multiple Metals Northwest Canadian Cordillera (MMNCC) project.

RECOMMENDED CITATION

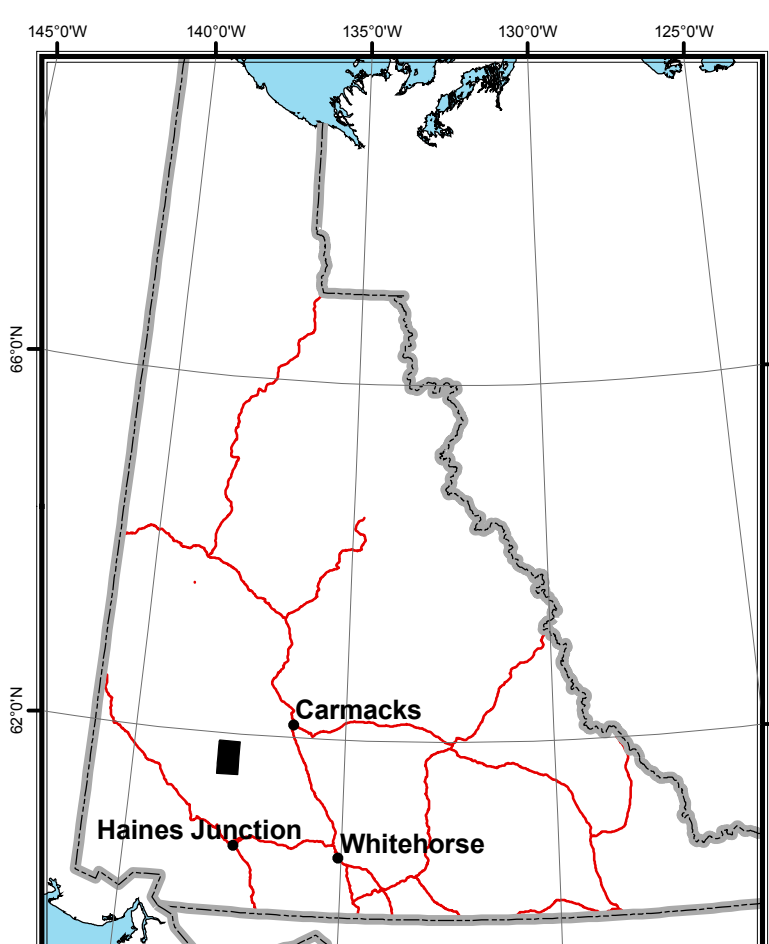
Israel, S. and Westberg, E., 2011. Preliminary geological map of the northwestern Aishihik Lake area, parts of NTS 115H/12 and 13 (1:50-000 scale), Yukon Geological Survey Open File 2011-31.

Digital cartography and drafting by Steve Israel, 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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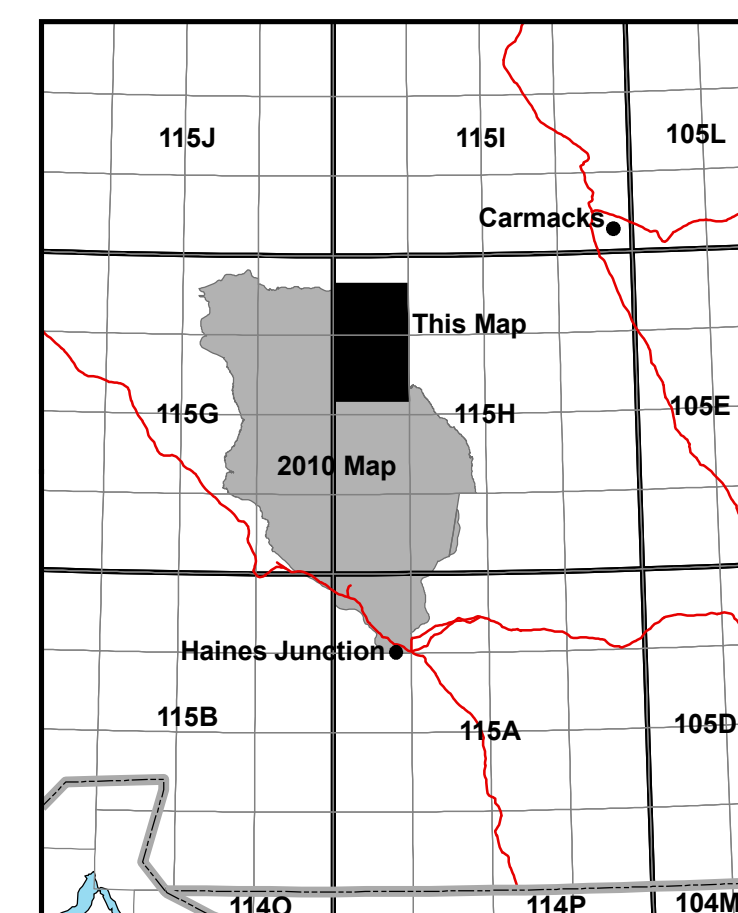
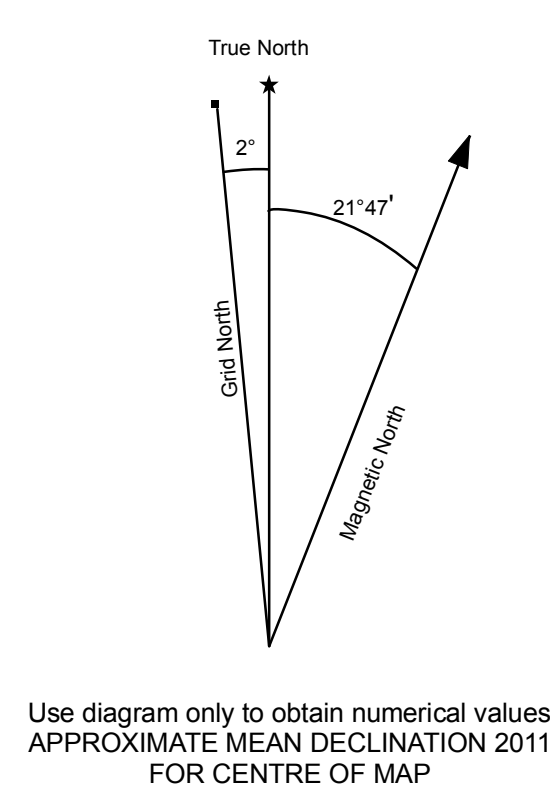
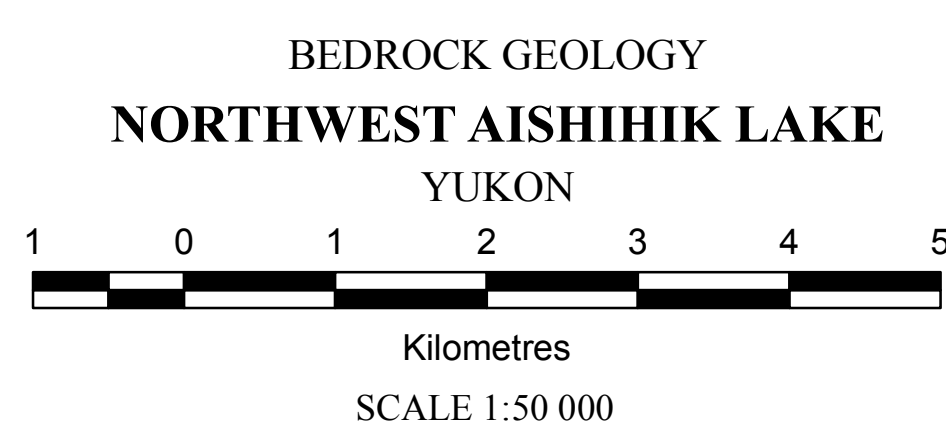
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1:50 000-scale topographic base data produced by CENTRE FOR TOPOGRAPHIC INFORMATION, NATURAL RESOURCES CANADA

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

CONTOUR INTERVAL 100 Feet
Elevations in feet above Mean Sea Level



Yukon Geological Survey
Energy, Mines and Resources
Government of Yukon

Open File 2011-31

Preliminary geological map of the northwestern Aishihik Lake area, parts of NTS 115H/12 and 13 (1:50-000 scale)

by
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