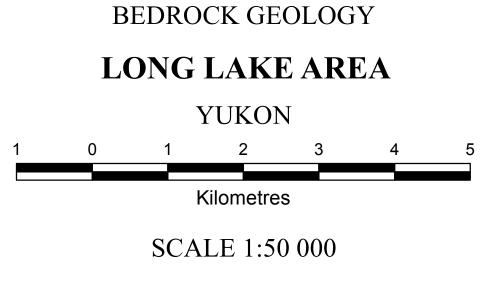
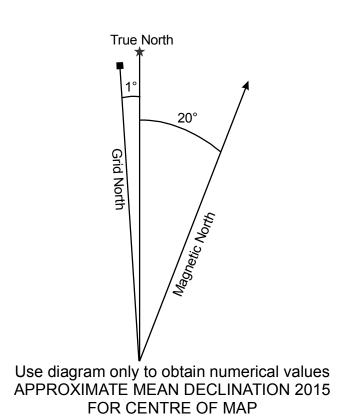
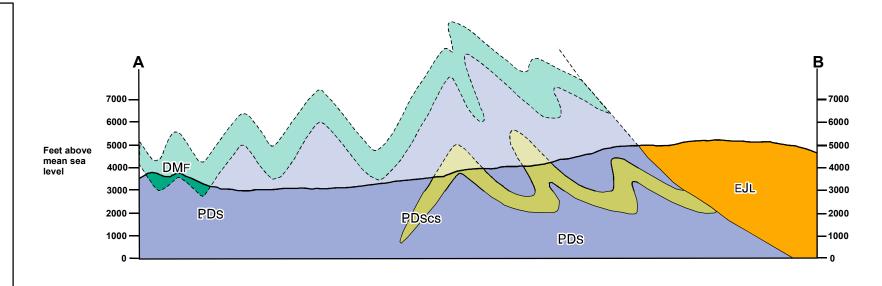
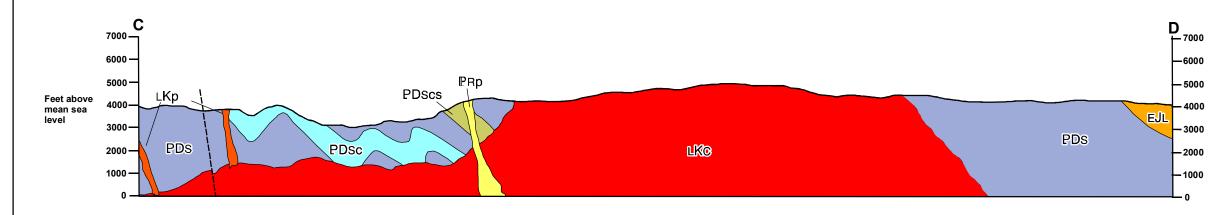


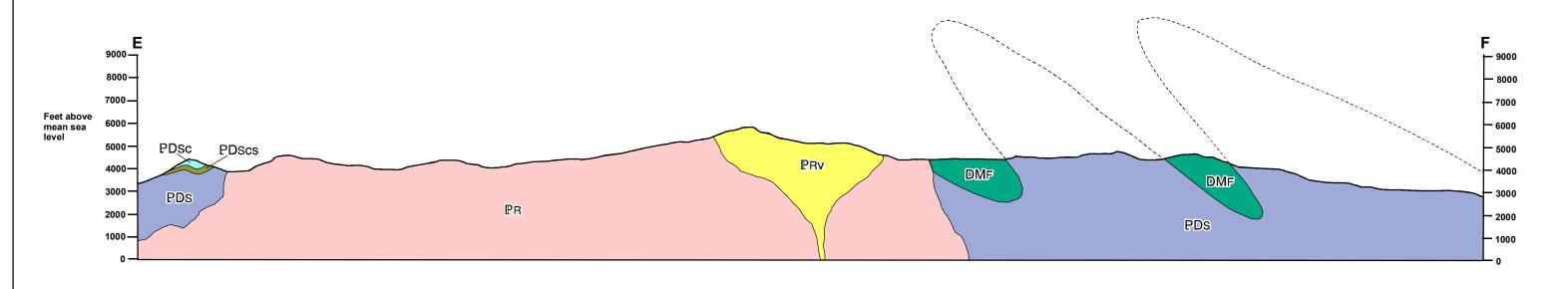
1:50 000-scale topographic base data produced CENTRE FOR TOPOGRAPHIC INFORMATION, NATURAL RESOURCES CANADA ONE THOUSAND METRE GRID Universal Transverse Mercator Projection North American Datum 1983 Zone 8 CONTOUR INTERVAL 100 Feet Elevations above Mean Sea Level











### **LEGEND**

### **OVERLAP ASSEMBLAGES**

### **PALEOCENE**

RHYOLITE CREEK VOLCANOPLUTONIC COMPLEX (ca. 57-54 Ma):

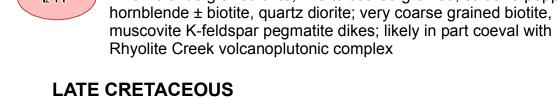
fine-grained intermediate volcanics within a feldspar crystal-rich,

medium to coarse-grained, equigranular, light grey to white biotite ± hornblende granodiorite; fine to coarse-grained, salt and pepper,

massive, fine to medium-grained, plagioclase porphyry; fine-grained hornblende, quartz-diorite to granodiorite andesitic to dacitic volcanic breccia and subvolcanic intrusions; angular to rounded clasts of purple to grey feldspar porphyry and

andesitic to dacitic matrix

## RUBY RANGE SUITE (ca. 64-57 Ma):



CASINO SUITE (ca. 78-74 Ma):

HOPPER PLUTON (ca. 78 Ma): medium to coarse-grained, hornblende, quartz-diorite, granodiorite and diorite; local coarse-grained hornblende gabbro; abundant magnetite; locally strongly altered where in contact with PDS and

## AISHIHIK DIKES (ca. 78 Ma):

porphyry; commonly strongly chlorite and sericite altered; weathers orange, brown where in contact with PDs and PDscs

fine to medium-grained hornblende, ± biotite, plagioclase

# **EARLY JURASSIC**

# LONG LAKE SUITE (ca. 186-180 Ma):

medium to coarse-grained biotite, hornblende granodiorite to quartz-diorite; locally k-spar megacrystic; minor coarse-grained gabbro; plagioclase, quartz ± k-spar pegmatite dikes locally common; strongly foliated near contact with metasedimentary rocks of the YTT, massive away from contact

### YUKON-TANANA TERRANE **DEVONIAN TO MISSISSIPPIAN**

biotite schist

# FINLAYSON ASSEMBLAGE:

fine to medium-grained, light grey to white weathered, banded marble, up to several tens of metres thick, locally interlayered with dark grey to black, fine-grained chert and calcareous, quartz,

fine to medium-grained light to dark grey, strongly to weakly carbonaceous quartzite and psammitic schist; locally abundant layers of biotite-rich, quartz-felspar schist; rare fine-grained chlorite schist

#### PROTEROZOIC TO DEVONIAN SNOWCAP ASSEMBLAGE:

fine to medium-grained, grey-cream weathered, light grey to white marble occurring as lenses and thick layers (up to several tens of metres wide); common skarnification consisting of quartz, epidote, diopside and garnet occurs where intruded by LKC and LKp

fine to medium-grained calcareous, quartz-muscovite schist, calcsilicate schist, and garnet, diopside and epidote skarn

fine to medium-grained, sugary, massive to banded and strongly folded light grey weathered quartzite, dark grey quartz-biotite schist and quartz-feldspar-biotite schist; locally abundant garnet and muscovite; medium to coarse-grained augen gneiss and

biotite-rich paragneiss; kyanite, staurolite and andalusite locally

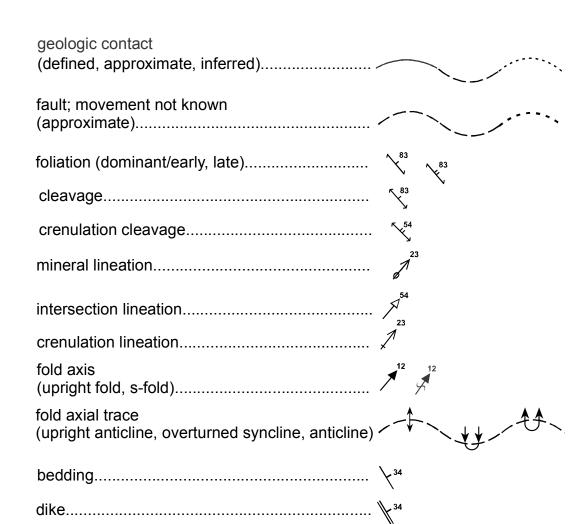
LAYERED ROCK ASSEMBLAGES: regionally mappable units

# LEGEND EXPLANATION

**PLUTONIC SUITES:** grouping of plutonic rock units based on age, regional distribution and in some cases composition

generally of Group or Formation rank

### **SYMBOLS**



bedding	\( \rac{1}{3} \)
dike	\\\\^34
dike fracture	1/34
field station	•

## limited-use road or trail.

MINFILE Occurrences				
Number	Name	Deposit Type	Commodity	
115H016	Giltana	Cu-Skarn	Cu, Mo	
115H017	Aishihik	Cu-Skarn	Cu	
115H018	Janisaw	Cu-Skarn	Cu	
115H034	Hopper North	Cu-Skarn/Porphyry	Cu, Au	

## RECOMMENDED CITATION

Israel, S. and Borch, A., 2015. Preliminary geological map of the Long Lake area, Parts of NTS 115H/02 and 07 (1:50 000 scale), Yukon Geological Survey Open File 2015-32.

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.

Paper copies of this map may be obtained from the Yukon Geological Survey, Energy Mines and Resources, Government of Yukon; Room 102-300 Main St., Whitehorse, Yukon, Y1A 2B5. Ph. 867-667-3201

# Email: geology@gov.yk.ca

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

Yukon Geological Survey Energy, Mines and Resources Government of Yukon

Open File 2015-32

Preliminary geological map of the Long Lake area, parts of NTS 115H/2 and 115H/7 (1:50 000 scale)

Steve Israel and Annie Borch