

LEGEND

QUATERNARY

17 Unconsolidated Alluvium, includes high level terraces along Big Creek.

LATE CRETACEOUS TO PALEOCENE

15 LATE INTRUSIONS: 15a, aphanitic intermediate to mafic dykes, possibly Carmacks feeders; 15c, medium to coarse grained potassic gabbro; 15d, diabase dykes, plugs.

CARMACKS SUITE

14 UPPER BASALT MEMBER: 14a, andesite flow; 14b, basalt flow; 14c, basal debris flow, breccia.

13 LOWER ANDESITE MEMBER: 13a, andesite flow; 13at, andesite tuff, tuffaceous sediment, conglomerate; 13b, andesite breccia, debris flow; 13c, basalt to andesitic basalt flow.

12 BASAL FELSIC MEMBER: 12a, grey to white weathering crystal-lithic tuff, minor lapilli tuff; 12b, rhyolite dome.

10 CARIBOU CREEK CONGLOMERATE: conglomerate-quartz pebble to boulder associated black clastic sediment.

CRETACEOUS TO PALEOCENE

MOUNT NANSEN SUITE

9 PORPHYRY DYKES: 9a, plagioclase-hornblende porphyry, dykes and small plugs; 9b, plagioclase-hornblende-quartz +/- biotite +/- K-feldspar porphyry dykes; 9c, quartz-feldspar porphyry dykes, white weathering, commonly pyritic; 9d, porphyritic granodiorite to quartz monzonite stocks; 9e, gabbro to syenite, plagioclase +/- hornblende porphyritic, fine-grained to medium-grained, multiple dykes and plugs on Victoria Mountain.

8 BOW CREEK GRANITE: 8a, fine-grained biotite granite; 8b, fine to very fine grained, pink weathering, often microlitic granite, minor chlorite, biotite; 8c, pink weathering aphanitic dykes and border phase to pluton, typically quartz and feldspar porphyritic.

7 MOUNT NANSEN VOLCANICS: 7a, andesite to latite massive flows and feeders; 7at, tuff, tuffaceous sediments, in part laharic; 7b, leucocratic latite to rhyolite; 7bt, welded vitric tuff, tuffaceous sediments; 7bx, lapilli tuff, pyroclastics; 7c, felsic dome commonly flow-banded, quartz and feldspar porphyry.

EARLY CRETACEOUS

DAWSON RANGE PLUTONIC SUITE

5 DAWSON RANGE BATHOLITH: 5a, Casino granodiorite; 5c, Coffee Creek granite.

EARLY JURASSIC

4 MOUNT FREEGOLD META-PLUTONIC SUITE: 4a, orthoclase-hornblende porphyritic syenite; 4b, plagioclase-hornblende monzonite; 4c, hornblende segregations in subunit 4a.

3 KLOTASSIN META-PLUTONIC SUITE: 3a, foliated hornblende-biotite granodiorite; 3b, leucogranodiorite.

PALEOZOIC AND OLDER

BASEMENT METAMORPHIC COMPLEX

2 SCHIST AND GNEISS UNITS: 2a, hornblende-biotite-feldspar gneiss, grades locally to unit 3; 2b, pink granite gneiss; 2c, schist-gneiss subunit includes biotite-quartz-feldspar schist, feldspar augen gneiss, amphibolite and minor quartzite and marble; 2d, amphibolite.

1 METASEDIMENTARY UNIT: 1a, quartzite, micaceous quartzite; 1b, quartz-feldspar-mica schist, quartzofeldspathic gneiss; 1L, limestone.

SYMBOLS

- Outcrop and felsenmeer.....
- Geological boundary (defined, assumed).....
- Bedding.....
- Schistosity, foliation (inclined, vertical).....
- Minor fold axis, lineation.....
- Joints (inclined, horizontal, vertical).....
- Faults, sense of movement unknown (observed, assumed).....
- Mineral deposit or prospect, reference number.....
- Intrusive breccia.....

MINERAL OCCURRENCES

Name (Commodity)	YEX Number
LIL (Au)	115 I - (29)
FOSTER (Au)	115 I - (38)
BROWN MCDONALD (Au, Ag)	115 I - (39)
MT. NANSEN (WEBER, HEUSTIS) (Au, Ag)	115 I - (40)
CYPRUS (Cu, Mo)	115 I - (41)
ESANSEE (Au, Ag, Pb, Zn)	115 I - (42)
DIVIDE (Au)	115 I - (43)
LONELY (Cu, Au)	115 I - (52)
GOULTER (Au, Ag)	115 I - (56)
HUSK (J. BILL) (Cu, Mo, Ag, Au)	115 I - (57)
ROW (Au)	115 I - (84)

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

**GEOLOGICAL MAP OF MOUNT NANSEN
MAP AREA (115 I-3)**

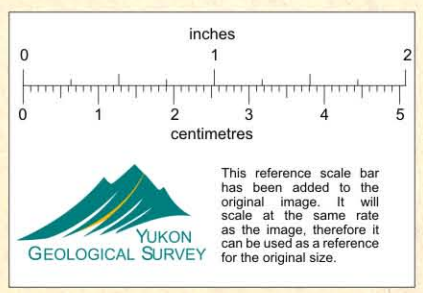
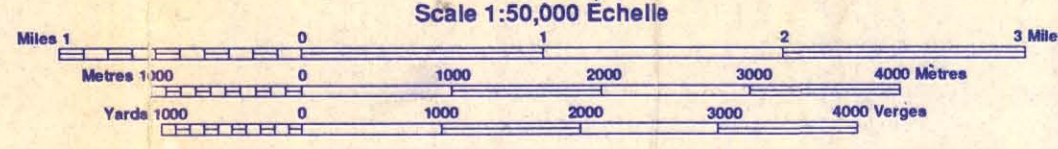
to accompany
OPEN FILE REPORT 1987-2

Geology of Mount Nansen (115 I-3) and Stoddart Creek (115 I-6) map areas by G. Carlson.

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Approximate magnetic declination in 1987 was N32°23'E and decreasing at an annual change of 3.7.



Index to adjoining Maps of the National Topographic System

115 I 05	115 I 06	115 I 07
115 I 04	115 I 03	115 I 02
115 H 13	115 H 14	115 H 15