

YUKON-TANANA TERRANE
LAYERED ROCKS ⁽²⁾

SLIDE MOUNTAIN TERRANE (?)
INTRUSIVE ROCKS

LOWER MISSISSIPPIAN	
<i>Lille Kråsa formation</i>	
M_{LkKa}	White, green and pink dolomite; quartzite; buff weathering dolomite [LOSL13]
M_{LkKv}	Medium grey to greenish-grey, argillaceous-dolomite-manganese, minor felsic quartzite-muscovite-feldspar schist; light grey carbonaceous muscovite ($\mu\text{-Pz}$) zone date - 344-345 Ma; light brown to olive-green dolomite-schist and light green quartzite and gneiss [LOSL13]
M_{LkKe}	Metamorphic dolomite-schist; metabasalt (chlorite-dolomite-schist-like) mafic gneiss and quartzite [LOSL13, 14, 115H6]
M_{LkEs}	Light grey to white marble, locally dolomitic and/or cherty, crinoid packstone; carbonate breccia; phyllite marble [LOSL13, 14, 115H6]
M_{LKr}	Pale green to grey chert and argillite; grey quartzite [LOSL13, 14]
M_{LKu}	White to dark grey quartzite [LOSL13, 14]
Pelmar: formation	
M_P	Kieselite, white to light grey quartzite, locally gray; minor dark grey to black carbonaceous phyllite and muscovous quartzite; locally calcareous, minor brown-weathering dolomite schist [LOSL13, 14, 115H6]
M_{PV}	Light green quartz-muscovite-carbonate (locally banded), feldspathic and feldspathic gneiss [LOSL13, 14]
M_{Pr}	Baige weathering, medium to dark grey quartz-muscovite-carbonate schist; dark grey dolomite; coarse-grained quartz-glycine schist with dolomitic cement; minor light green quartzite-phyllosilicate-dolomite (hosted) schist; quartzite pebbles to cobble conglomerate [LOSL13, 14]
Loken member	
M_{LP}	Foliated, fine to medium-grained quartz-feldspar porphyry, up to 50% phenocrysts; fine-grained greens to monzon tuffaceous volcaniclastic rocks ($\mu\text{-Pz}$ zone date - 350-413 Ma) [LOSL13, 14]
M_{LV}	Mini-green to yellow-green foliated intermediate volcano and volcanoclastic rocks. Minor marble, psammite schist intercalations [LOSL13]
UPPER DEVONIAN TO LOWER MISSISSIPPIAN	
<i>Dryum formation</i>	
D_{Mos}	Coarse-grained argillite, light grey and light green quartzite, minor dark grey phyllite, psammite schist, locally (dental zircon 350-370 Ma); $\mu\text{-Pz}$ [OSLU 2.6, 8, 11]
DEVONIAN AND OLDER (?)	
Snowcap Assemblage	
Unidentified:	Light to medium grey quartzite and psammite schist; commonly graniferous, medium to dark grey carbonaceous muscovite-quartz (x garnet) schist; light green quartzite, schist or carbonate schist; light green quartzite, minor marble [LOSL13, 2.5,5.6, 11.12, 115H6]
P_{Sn}	Light green quartzite, locally carbonate schist, locally gray; minor dark grey phyllite, quartzite - muscovite (x calcite) schist; minor light grey schistose marble [LOSL13, 2.6, 11]
P_{Sn}	Fine to medium-grained green, hornblende + biotite + garnet + glaucophane + calcite + amphibole; greenstone; minor brown-weathering marble [LOSL13]
P_{Sn}	Grey marble, yellow, buff and cream-weathering marble marbles; polymorphic pelitic to boulder conglomerate with either calcareous or siliceous matrix; light to dark grey quartzite, carbonate schist [LOSL13, 2.12, 115H6]
ANCESTRAL NORTH AMERICA (Selwyn Basin)	
LAYERED ROCKS	
CARBONIFEROUS-PERMIAN	
M_{Ch}	Interventive greenish grey cherty shale and green shale; black siliceous slate and shales; locally calcareous and/or granitic [LOSL14]
LOWER MISSISSIPPIAN (LILLE TORNIAUSSEN?)	
<i>Kalzas Formation</i>	
M_K	Dark, cherty and buff weathering, generally thick bedded to massive, dark grey to black bedded limestone; fine crystalline to oolitic/crystalline; commonly bioclastic; minor argillite and chert [LOSL14]
Devonian - LOWER MISSISSIPPIAN	
<i>Earn Group</i>	
D_{ME}	This bedded, laminated slate interbedded with thin, to medium-grained chert-quartz sandstone; chert pebble conglomerate; black siliceous siltstone; rare limestone [LOSL13, 14]
ORDOVICIAN - DEVONIAN	
<i>Road River Group</i>	
O_{DR}	Black, cherty, or silvery white weathering, black graphitic shale; minor thin-bedded limestone and sandstone [LOSL11, 14]
ORDOVICIAN	
<i>Merced Creek Formation (?)</i>	
O_{SM}	Green, mafic volcanic flows, breccia, and buff varicolored volcanoclastic siltstone, mudstone and gey; fluviacous chert; minor limestone [LOSL14]
CAMBRIAN - ORDOVICIAN	
<i>Rabbitkettle (Vangorda) Formation</i>	

NOTES:

(1) Stratigraphic units in the Semenof Block were first introduced by Tempelman-Kluit (1984) but were never formally defined.

(2) A number of new stratigraphic units in Yukon-Tanana Terrane are introduced informally on this map. These units will be formally defined in a report in preparation.

YUKON-TANANA TERRANE

	YUKON-TANANA TERRANE LAYEDED ROCKS ⁽²⁾
Late Salmon Formation	
PENNSYLVANIA (?)	Light grey, pink and purple siliceous exhalite; at the top, 1-2 m-thick horizon of barisot, white, light green and red khm chert (exhalite) [105L7].
UPPER MISSISSIPPIAN - MIDDLE PENNSYLVANIAN	
(Late Visean - Moscovian)	Light to medium grey metaclasts, light grey phyllitic marble, black calcareous phyllites and minor dark grey carbonaceous phyllites; locally carbonous rhythmites with poorly sorted carbonate micritic conglomeratic beds; locally contains rapese coral and crinoid fragments [105L1,2,6,7]
C.S.Mt.	
MIDDLE MISSISSIPPIAN	
(late Frasnian - Pennsylvanian)	Metacalcarenite - metapelite rocks - predominantly medium green, massive calcite - pelagoclad - encrinurid - benthic schist, locally intercalated with more light green calcarenite and calcarenite; dark grey green calcarenite and marls; locally displays ripple structures; algalophide phyllite; crystal light blue; polyimetic volcanic breccias and lenses.
Metavolcanic rocks - predominantly light grey, light green and medium green gneisses intercalated with thin layers of dark green calcarenite and calcarenite schist and olive-green phyllites; locally graded lapillistics; banded calcite - apophide - phyllite; locally intermediate to mafic tuffs; minor basalts [105L1,2,7,8]	
MIDDLE MISSISSIPPIAN	
(Early Frasnian - Middle Frasnian)	Quartz - feldspar metaconglomerate; light grey green meta-phyllites (U-Pb zircon date ~340-341 Ma) [105L2]
n.M.L.Sr.	
C.S.Mt.	Coe-siderite-bearing, K-feldspar crystalline gneiss and conglomerate (youngest detrital zircons 347 Ma) [105L1,105L14]
	Quartzite overlies to Boulder conglomerate [105L12,2]

ANCESTRAL NORTH AMERICA
(Cassiar Terrane)

DEVONIAN - LOWER MISSISSIPPIAN
Earn Group

SILURIAN - DEVONIAN

SDAq Medium- to thick-bedded to massive, g

SDAs Dark grey argillite, locally dolomitic; rare

CAMBRIAN - ORDOVICIAN
Kechika Group
Thin-bedded, lustrous, calcareous, grey

LOWER CAMBRIAN

Light to dark grey, thin bedded limestone

45 50 000 m E

A topographic map of the study area. The map shows a river flowing from the top left towards the bottom right. A road, indicated by a double line, runs parallel to the river. The terrain is represented by brown contour lines, with a green shaded area in the upper left corner. The map is oriented with North at the top.

A topographic map of the study area, showing contour lines and a river network. The map is oriented with North at the top. The contour lines are brown and indicate elevation. The river network is shown in blue. The map is labeled with '1:50,000' in the top left corner and '1:50,000' in the bottom right corner. The map is also labeled with '1:50,000' in the center. The map is a detailed topographic map of the study area, showing contour lines and a river network. The map is oriented with North at the top. The contour lines are brown and indicate elevation. The river network is shown in blue. The map is labeled with '1:50,000' in the top left corner and '1:50,000' in the bottom right corner. The map is also labeled with '1:50,000' in the center.

45 6 50 000 m E 05° 134° 00' W

Symbol Legend:

Station.....	.
Bedding (inclined, upright, overturned).....	-
Compositional layering.....	▬
Dominant foliation.....	◀▶
Igneous fabric.....	☼
Mylonitic fabric.....	▲
Elongation or mineral lineation.....	↑
Intersection lineation; vergence determined by bedding/foliation relation (vergence unknown, m. s.).....	↗ ↘
Fold axis (vergence unknown, m. s., S. Z.).....	↑ ↑ ↓ ↓

Yukon MINFILE Occurrences (see page 2 for details):

- Coal..... ▬ MINFILE No.
- Volcanogenic..... ◆
- SEDEX..... ◀
- Skanr (Zn, Other)..... ☼
- Vein (Cu)..... ▲
- Unknown..... ★

AGE DATES (see page 2 for details):

- U/Pb..... ●
- K/Ar^a..... ▲
- Air^b..... △

U/Pb detrital ages..... Ⓢ (stable error only)

Labels (all ages in Ma)..... Age - (2 sigma error) Ma, internal.

Dated Materials:

- f.c. - feldspar
- g.c. - gabbro
- Mt. - monzonite
- m. - mafic rock
- ms. - muscovite
- ss. - sandstone
- wt. - whole rock
- zrn. - zircon

Fossils..... Ⓕ (mobile entry only)

Roads (highway, secondary).....

Trails.....

Line of cross-section.....

Geological contacts (approximate, inferred).....

Normal fault (approximate, inferred).....

Thrust fault (approximate, inferred).....

Strike-slip fault (approximate, inferred).....

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Indian and Northern Affairs Canada
Exploration and Geological Services Division
Yukon Region
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Geological Survey of Canada
Open File 1457
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ARY GEOLOGICAL MAP OF GLENLYON (105L/1-7,11-14)
ND NORTHEAST CARMACKS (115I/9,16) AREAS,
YUKON TERRITORY (1:125 000 scale)

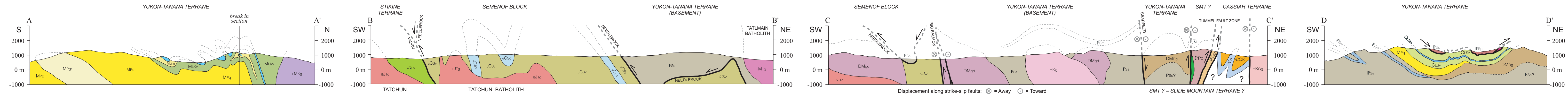
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Topographic base produced by
SURVEYS AND MAPPING BRANCH
DEPARTMENT OF ENERGY, MINES
AND RESOURCES

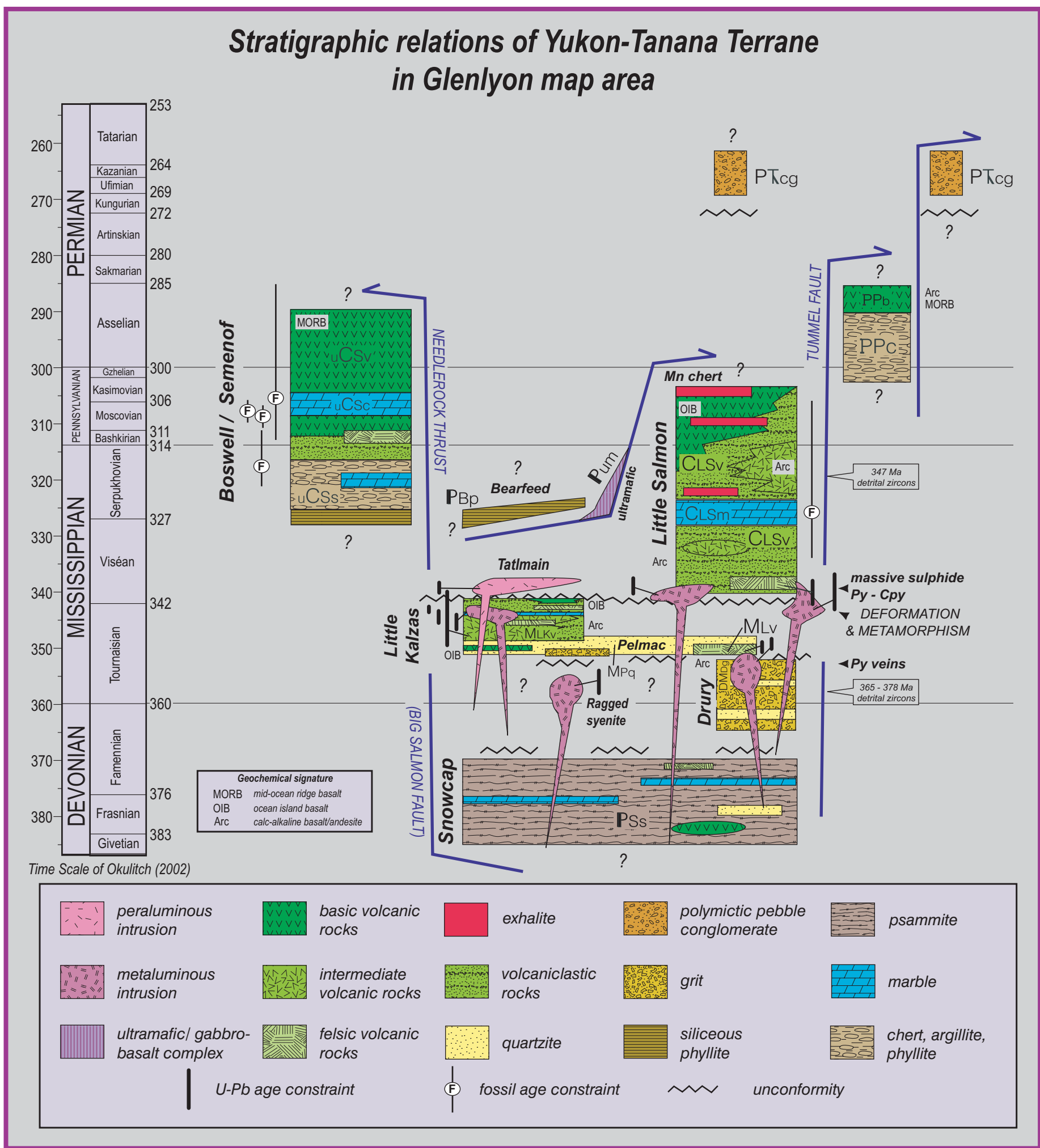
CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1983
Transverse Mercator Projection

ONE THOUSAND METRE
Universal Transverse Mercator Grid
ZONE 8



FOSSIL COLLECTIONS				
Sample (GSC loc. #)	Fossil Taxa	Age	Source	NTS
LITTLE SALMON FORMATION - CLSm				
F1 85GA-66 (C-18094)	conodonts: <i>Periodon?</i> sp	Ordovician (Note: probably <i>detrital</i>)	GSC fossil report OF-1992-11 (M.J. Orchard); collected by S.P. Gordey (Poulton et al., 1999)	105L/2
F2 98L-2 (C-304131)	echinoderms	Phanerozoic	GSC fossil report MJO-1999-4 (M.J. Orchard); collected by M. Colpron (1988)	105L/2
F3 98MC041 (C-413001)	solitary dibunophyllid? corals; unidentified echinoderm ossicles	Carboniferous or Permian; possibly mid-Carboniferous (Vislan to Mesozoic)	GSC fossil report 3-EWB-1999 (E.W. Bamberg); collected by M. Colpron	105L/2
F4 98MC042 (C-413002)	colonial alveolophyllid coral, possibly <i>Ctenopora</i> sp.	mid-Carboniferous, late Vislan to Mesozoic	GSC fossil report 3-EWB-1999 (E.W. Bamberg); collected by M. Colpron	105L/2
F5 96-RAS-MC-031-1 (C-304669)	conodonts: ramiform elements; graptoloid? sp.	Carboniferous - Permian	GSC fossil report MJO-2000-4 (M.J. Orchard); collected by M. Colpron	105L/2
LITTLE KALZAS FORMATION - MLKm				
F6 98MC042 (C-304131)	echinoderm fragments	Ordovician - Triassic?	Campbell (1967)	105L/13
F7 98MC108 (C-304129)	conodonts: graptoloid? ramiform elements; <i>Hindodonta?</i> sp.; <i>Vogelgraptus?</i> sp.	Early? Carboniferous	GSC fossil report MJO-1989-4 (M.J. Orchard); collected by M. Colpron (1988)	105L/13
F8 98MC160 (C-304130)	echinoderm fragments	Ordovician - Triassic?	Campbell (1967)	105L/13
F9 98MC167 (C-304130)	conodonts: ramiform elements	Ordovician - Triassic	GSC fossil report MJO-1999-4 (M.J. Orchard); collected by M. Colpron (1988)	105L/13
KALZAS FORMATION - MLK				
F10 (C-20186)	<i>Camerotheca</i> sp.; <i>Crinoid</i> stems; fish tooth; spirifer fragments	Lower Mississippian	Identified by P. Harker in Campbell (1967)	105L/14
F11 82-DY-2381 (C-816191)	conodonts: ramiform elements; <i>Bisparthodus ex gr. stans</i> (Branson & Mehl 1934)	Early Carboniferous	GSC fossil report OF-1992-5 (M.J. Orchard); collected by K.M. Dawson (Poulton et al., 1999) [Note: reported location - shown on map - probably incorrect]	105L/14
F12 82-DY-2382 (C-816189)	conodonts: ramiform elements; <i>Bisparthodus ex gr. stans</i> (Branson & Mehl 1934); <i>Polygraptus ex gr. P. communis</i> (Branson & Mehl 1934)	Early Carboniferous, Tournaisian	GSC fossil report OF-1992-5 (M.J. Orchard); collected by K.M. Dawson (Poulton et al., 1999) [Note: reported location - shown on map - probably incorrect]	105L/14
F13 82-DY-2383 (C-816188)	conodonts: carnate element; ramiform element	Ordovician-Triassic	GSC fossil report OF-1992-5 (M.J. Orchard); collected by K.M. Dawson (Poulton et al., 1999) [Note: reported location - shown on map - probably incorrect]	105L/14
F14 82DY-23-79a (C-102623)	spiriferid brachiopods	Carboniferous	GSC fossil report C4-EWB-1983 (E.W. Bamberg); collected by K.M. Dawson (1982) (Poulton et al., 1999) [Note: reported location - shown on map - probably incorrect]	105L/14
F15 82DY-23-81a (C-102624)	echinoderm columns; spiriferid? Brachiopods	Carboniferous or Permian	GSC fossil report C3-EWB-1983 (E.W. Bamberg); collected by K.M. Dawson (1982) (Poulton et al., 1999) [Note: reported location - shown on map - probably incorrect]	105L/14
ROAD RIVER GROUP (?) - ODHR				
F16 82DY-23-74 (C-102622)	<i>Monograptus?</i> sp.; <i>Orthograptus</i> sp.; retoloid	Late Ordovician to early Silurian	GSC fossil report O-S-10-BSN-1983 (B.S. Norford); collected by K.M. Dawson (1982) (Poulton et al., 1999) [Note: reported location - shown on map - probably incorrect]	105L/14
F17 82SGA-50A (C-107006)	<i>dicyonemist graptolites?</i> ; fenestellid bryozoan indeterminate; gastropod? indeterminate; ramose bryozoan indet.	Slurian to Permian	GSC fossil report C4-EWB-1983 (E.W. Bamberg); collected by S.P. Gordey (1982) (Poulton et al., 1999) [Note: reported location - shown on map - probably incorrect]	105L/14

DETRITAL U/Pb ZIRCON AGES				
Sample	Map Unit	Lithology	Age(s) (Ma)	Interpretation notes
D1 99MC033	DMb1g	arkosic grit	ca. 365	50 single grain analyses - 44 grains have mean of 365.3 ± 9.5 Ma (MSWD = 0.20);
D2 01MC265	DMb1g	arkosic meta-sandstone	ca. 378	56 single grain analyses - 52 grains have a mean of 378 ± 9.3 Ma (MSWD = 0.05);
D3 99MC144	DMb1g	arkosic grit	1700-2400	10 single grain analyses; all discordant and scattered between ~1700-2400 Ma
D4 99MC206	CLSV	medium-grained, strongly foliated, K-feldspar crystal grit; near base of CLSV - probably equivalent of unit CLSV	347	5 multiple grain fractions - fraction C is reversely discordant at 348.8 ± 0.8 Ma, other fractions display inheritance to 1.86 and 2.35 Ga
D5 98MC196c	MLKv	quartz-feldspar schist intercalated with unit MLK	1700-1800	10 single grain analyses; all discordant; most grains are between 1700-1800 Ma, a few strongly discordant grains are scattered up to ~2550 Ma



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PRELIMINARY GEOLOGICAL MAP OF GLENLYON (105L/1-7, 11-14) AND NORTHEAST CARMACKS (115/9,16) AREAS, YUKON TERRITORY (1:125 000 scale)

by

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ISOTOPIC AGE DATES									
Sample	Age (Ma)	2 σ	Method	Mineral	Lithology	Interpretation notes	Reference	NTS	
Crystallization Ages									
TERTIARY - T₁₀									
1 25887R1	54.9 ± 1.7		U/Pb	zircon	ryholite porphyry		Brettsprecher et al. (2002)	105L/13	
2 12588-R6	56.3 ± 0.2		U/Pb	zircon	quartz-feldspar-hornblende porphyry dyke(?)		Brettsprecher et al. (2002)	105L/3	
3 12588-R6	67.7 ± 3.3		K/Ar	hornblende	quartz-feldspar-hornblende porphyry dyke(?)	igneous cooling age	Hunt and Roddick (1992)	105L/3	
4 MLB-88-182	57.0 ± 0.8		K/Ar	biotite	biotite-plagioclase-hornblende porphyry dyke	igneous cooling age	Brettsprecher et al. (2002)	105L/3	
5 MLB-88-185	60.1 ± 0.8		K/Ar	biotite	biotite quartz monzonite	igneous cooling age	Brettsprecher et al. (2002)	105L/3	
6 MLB-88-185	56.6 ± 0.9		K/Ar	biotite	biotite quartz monzonite	igneous cooling age	Brettsprecher et al. (2002)	105L/3	
CARMACKS GROUP - mKvC									
7 18876	73.4 ± 1.3		K/Ar	whole rock	slightly altered olivine basalt	igneous cooling age	Hunt and Roddick (1992)	105L/3	
8 TO-74-74A	63.5 ± 3.1		K/Ar	biotite	fresh basalt		Watters et al. (1978)	115/16	
9 TOR79-23-9	74.4 ± 3.0		K/Ar	hornblende	hornblende porphyry		Stevens et al. (1982)	115/16	
LATE CRETACEOUS GRANITE - mKvG									
10 00MC173	93.0 ± 1.0		U/Pb	zircon	K-feldspar porphyritic granite	3 near-concordant fractions scattered between 92 and 94 Ma	Colpron and Mortensen (unpub.)	105L/2	
11 99MC171	94.5 ± 1.5		U/Pb	zircon	medium-grained equigranular biotite granite	5 near-concordant fractions scattered between 93 and 96 Ma	Colpron and Mortensen (unpub.)	105L/2	
GLENLYON PLUTONIC SUITE (?) - mKvG									
12 CL-46-660-700_M-CL	108.1 ± 0.2		U/Pb	zircon	quartz-feldspar porphyry dyke in drill core at the Clear Lake deposit		Brettsprecher et al. (2002)	105L/14	
13 SYA86-64A-1	105.0 ± 4.0		K/Ar	whole rock	hornfels zone associated with a small stock or sill of quartz-feldspar porphyry	metamorphic cooling age, probably closely reflects age of nearby Glenlyon batholith (?)	Hunt and Roddick (1990)	105L/1	
TANTALUS FORMATION (?) - mKvG									
14 MLB-88-181	82.0 ± 1.3		U/Pb	zircon	felsic tuff band within immature clastic sedimentary rocks		Brettsprecher et al. (2002)	105L/3	
TATCHUN AND MCGREGOR BATHOLITHS - mKvG									
15 99MC227	197.1 ± 0.4		U/Pb	zircon	unfoliated, medium-grained hornblende tonalite	age is based on one concordant fraction	Colpron and Mortensen (unpub.)	105L/14	
16 99MC227	ca. 193		U/Pb	zircon	unfoliated, medium-grained hornblende tonalite	igneous cooling age - younger of two concordant fractions; other fraction is concordant at 199 Ma	Colpron and Mortensen (unpub.)	105L/14	
17 TO79-25-2	142.0 ± 10.0		K/Ar	biotite	well foliated porphyritic granite/granodiorite	igneous cooling age (300°C)	Stevens et al. (1982)	115/9	
CORNOLIO PLUTON - P₁₀CLm									
18 98MC054a	264.2 ± 1.0		U/Pb	zircon	unfoliated hornblende-biotite quartz monzonite	6 discordant fractions; age is lower intercept of 3 point regression (MSWD - unresolved)	Colpron and Mortensen (unpub.)	105L/13	
19 98MC054a	190.7 ± 1.9		Ar/Ar	hornblende	unfoliated hornblende-biotite quartz monzonite	igneous cooling age (300°C) - plateau age	Colpron and Villeneuve (unpub.)	105L/13	
20 98MC054a	194.9 ± 1.9		Ar/Ar	biotite	unfoliated hornblende-biotite quartz monzonite	igneous cooling age (300°C) - hump-shaped spectra indicate that this sample is probably altered	Colpron and Villeneuve (unpub.)	105L/13	
LITTLE SALMON PLUTONIC SUITE - mKvG									
21 00MC005	339.4 ± 0.9		U/Pb	zircon	fine to coarse-grained augite gabbro (unit mKvG)	fraction B concordant - weighted average of fractions B+C = 342.4 ± 6 Ma	Colpron and Mortensen (unpub.)	105L/7	
22 99MC014	338.5 ± 1.0		U/Pb	zircon	fine-grained foliated and strongly lineated quartz diorite to granodiorite	single concordant fraction	Colpron and Mortensen (unpub.)	105L/2	
23 99MC034	338.8 ± 2.3		U/Pb	zircon	medium-grained foliated and lineated granodiorite	3 point regression, MSWD = 17.6	Colpron and Mortensen (unpub.)	105L/1	
24 99MC072B	358.2 ± 4.2		U/Pb	zircon	strongly foliated, coarse-grained hornblende diorite	poorly resolved age - 5 discordant fractions - A+B are near concordia at ca. 340 Ma, weighted average of A+B+C = 358.2 ± 4.2 Ma	Colpron and Mortensen (unpub.)	105L/2	
25 T-454	353.0 ± 1.3		U/Pb	zircon	massive, medium-grained equigranular granodiorite	minimum age estimate; 3 point regression	Oliver and Mortensen (1998)	105L/1	
TATLMAIN BATHOLITH - mKvG									
26 98MC165	338.6 ± 1.3		U/Pb	zircon	unfoliated medium-grained, equigranular hornblende-biotite quartz diorite	2 concordant fractions	Colpron and Mortensen (unpub.)	105L/13	
27 98MC195	343.7 ± 3.2		Ar/Ar	hornblende	unfoliated medium-grained, equigranular hornblende-biotite quartz diorite	igneous cooling age (500°C) - good, strong reproducible plateaus	Colpron and Villeneuve (unpub.)	105L/13	
28 99MC065	347.8 ± 4.0		U/Pb	zircon	unfoliated granitic medium-grained equigranular granite	weighted mean of 4 discordant fractions; see sample 98MC065 for more reliable age of same pluton, possibly age of xenocrysts	Colpron and Mortensen (unpub.)	105L/13	
LITTLE SALMON FORMATION - mKvG									
29 99MC013-1	340.2 ± 2.1		U/Pb	zircon	quartz-feldspar meta-porphry	4 point regression, MSWD=0.5, one fraction concordant	Colpron and Mortensen (unpub.)	105L/2	
LITTLE KALZAS FORMATION - mKvG									
30 98MC063a	344.5 ± 5.2		U/Pb	zircon	meta-ryholite	weighted mean of 4 discordant Pb/Pb ages	Colpron and Mortensen (unpub.)	105L/13	
31 98MC125	345.8 ± 1.0		U/Pb	zircon	light green quartz-muscovite-feldspar schist	age is single concordant fraction. Remaining 3 fractions discordant, align with concordant fraction about 340 Ma	Colpron and Mortensen (unpub.)	105L/13	
LITTLE KALZAS PLUTONIC SUITE - mKvG									
32 98MC055a	343.1 ± 1.2		U/Pb	zircon	medium-grained, strongly foliated quartz diorite	5 point regression, MSWD = 6.9	Colpron and Mortensen (unpub.)	105L/13	
33 98MC111	344.0 ± 1.5		U/Pb	zircon	strongly foliated biotite granite to tonalite	4 point regression on discordant fractions (MSWD = 15)	Colpron and Mortensen (unpub.)	105L/13	
34 98MC119	346.2 ± 1.8		U/Pb	zircon	variably foliated hornblende biotite granodiorite, fine- to medium-grained, contains abundant xenoliths	2 concordant fractions	Colpron and Mortensen (unpub.)	105L/13	
35 98MC196d	ca. 347		U/Pb	zircon	strongly foliated K-feldspar megacrystic granite	poorly resolved age - lower intercept of 2 point regression	Colpron and Mortensen (unpub.)	105L/13	
TELEGRAPH PLUTONIC SUITE - mKvG									
36 01MC230-1	349.0 ± 0.7		U/Pb	zircon	weakly foliated and boudinaged, coarse-grained hornblende tonalite	2 overlapping concordant fractions; fraction B is most precise at 349 Ma	Colpron and Mortensen (unpub.)	105L/2	
37 01MC230-2	348.5 ± 1.2		U/Pb	zircon	strongly foliated, fine-grained, Plag-Ms-Qtz-Hbl-Bt schist (quartz diorite)	5 concordant fractions; minor Pb loss for some fractions; A + C are oldest at 348.5 Ma	Colpron and Mortensen (unpub.)	105L/2	
38 KG01-220	348.3 ± 1.1		U/Pb	zircon	medium-grained, equigranular hornblende granodiorite	3 overlapping concordant fractions at 348.3 Ma	Gladwin, Colpron and Mortensen (unpub.)	105L/1	
PELMAC FORMATION (SLOKAN MEMBER) - MLp									
39 01MC288	350.4 ± 1.3		U/Pb	zircon	foliated quartz-feldspar porphyry	4 fractions on or near concordia; fraction D is most concordant at 350.4 Ma	Colpron and Mortensen (unpub.)	105L/1	
RAGGED PLUTON - mKvG									
40 00T004	356.4 ± 1.0		U/Pb	zircon	unfoliated K-feldspar porphyritic augite syenite	2 concordant fractions	Colpron and Mortensen (unpub.)	105L/12	
Metamorphic Cooling Ages									
41 RO-87	174.7 ± 2.4		Ar/Ar	muscovite	unit mKvG	integrated age, age spectrum is stepped - cooling 350°C	Oliver (1996)	105L/1	
42 RO-99	185.0 ± 4.4		Ar/Ar	muscovite	unit CLSV	integrated age, diffusion loss suggested by age spectrum - cooling 350°C	Oliver (1996)	105L/1	
43 SS-406a	197.0 ± 2.2		Ar/Ar	muscovite	unit DMb3	integrated age, disturbed age spectrum - cooling 350°C	Oliver (1996)	105L/1	
44 T-226	190.3 ± 9.0		Ar/Ar	muscovite	unit DMb3	integrated age, climbing spectrum - cooling 350°C	Oliver (1996)	105L/1	
45 T-454	214.4 ± 5.2		Ar/Ar	biotite	unit mKvG	integrated age, disturbed age spectrum - cooling 300°C; partially reset from igneous cooling?	Oliver (1996)	105L/1	
46 T-459	214.2 ± 5.9		Ar/Ar	biotite	unit mKvG	integrated age, disturbed age spectrum - cooling 300°C; partially reset from igneous cooling?	Oliver (1996)	105L/1	
47 RO-105	153.0 ± 2.4		Ar/Ar	biotite	unit DMb3	integrated age - disturbed age spectrum (diffusion loss) - cooling 300°C	Oliver (1996)	105L/2	
48 RO-113	191.5 ± 1.9		Ar/Ar	muscovite	unit CLSV	plateau age, 67.4% 39Ar - cooling 350°C	Oliver (1996)	105L/2	
49 RO-116	193.4 ± 2.5		Ar/Ar	muscovite	unit Pm	plateau age, 68.4% 39Ar - cooling 350°C	Oliver (1996)	105L/2	
50 RO-128	183.0 ± 2.4		Ar/Ar	muscovite	unit Pm	integrated age, saddle-shaped spectrum - cooling 350°C	Oliver (1996)	105L/2	
51 RO-133b	181.0 ± 4.0		Ar/Ar	muscovite	unit Pm	integrated age, saddle-shaped spectrum - cooling 350°C	Oliver (1996)	105L/2	
52 RO-502	85.6 ± 1.0		Ar/Ar	feldspar	unit mKvG	integrated age, disturbed age spectrum - cooling 150-200°C	Oliver (1996)	105L/2	
53 SS-04b	188.8 ± 3.0		Ar/Ar	muscovite	unit Pm	plateau age, 76.8% 39Ar - cooling 350°C	Oliver (1996)	105L/2	
54 T-170	233.1 ± 10.1		Ar/Ar	muscovite	unit CLSV	integrated age, - cooling 350°C; spectrum is disturbed	Oliver (1996)	105L/2	