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YUKON GEOLOGY PROGRAM

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Canada's National Geoscience Mapping Program
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Indian and Northern Affairs Canada
Exploration and Geological Services Division
Yukon Region

Open File 2001-33

PRELIMINARY BEDROCK GEOLOGICAL MAP OF NORTHERN FINLAYSON LAKE AREA (NTS 105 G) YUKON TERRITORY (1:100 000 scale)

by

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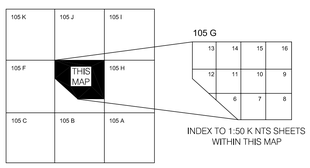
(Sheet 1 of 2)



INDEX TO 1:50 K NTS SHEETS WITHIN THIS MAP

INDEX TO ADJOINING 1:250K NTS SHEETS

NORTHERN FINLAYSON LAKE AREA
YUKON TERRITORY - (NTS 105 G)
SCALE 1:100 000

Miles 1 0 1 2 3 4 5 Miles
Kilometres 1 0 1 2 3 4 5 6 7 8

CONTOUR INTERVAL 500 FEET for 105G 9-16
CONTOUR INTERVAL 100 m for 105G 5-8
Elevations in feet above Mean Sea Level
North American Datum 1983
Transverse Mercator Projection

ONE THOUSAND METRE
Universal Transverse Mercator Grid
ZONE 9

Magnetic declination 2001 for 105G varies from 26°29' easterly at centre of west edge to 26°54' easterly at centre of east edge. Mean annual change decreasing 11.5'.

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

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LEGEND

INTRUSIVE ROCKS

TERTIARY

Eq — Quartz porphyry.

Eg — Dark green, black and brown, medium-grained equigranular gabbro and pyroxenite.

CRETACEOUS

Kg — Biotite-muscovite fine- to medium-grained equigranular granite.

LAYERED ROCKS

CRETACEOUS

Kv — Grey- to orange-weathering hornblende and hornblende-feldspar crystal lithic tuff.

EOCENE

Eb — Massive dark green to black, fine-grained basalt.

NORTH AMERICAN MIOGEOCLINE

UPPER TRIASSIC

ꞮI — Massive light grey sandy bioclastic limestone.

ꞯs — Dark grey phyllite with laminations and beds of brown weakly calcareous quartz siltstone and sandstone and sandy limestone.

PERMIAN

MOUNT CHRISTIE FORMATION

PMC — Dark to light grey, black, green, and white chert.

DEVONIAN - MISSISSIPPIAN

EARN GROUP

DME — Dark grey pinstriped carbonaceous phyllite, slate, quartz sandstone, chert-pebble conglomerate and chert; lesser quartzofeldspathic greywacke and grit.

~~~~~~ UNCONFORMITY ~~~~~~

Cassiar Platform

MIDDLE DEVONIAN

Dl — Thin- to medium-bedded dark grey to black locally fetid limestone; two-hole crinoids.

SILURIAN - DEVONIAN

SDq — Massive grey orthoquartzite.

Sdq — Sandy, cream-weathering dolostone and grey quartzite; the amount of quartzite increases upwards.

Ss — Thinly laminated tan platey siltstone and silty limestone; locally sandy.

HANGING WALL OF INCONNU THRUST

JURASSIC

Jg — Medium-grained equigranular hornblende-biotite granite.

YUKON-TANANA TERRANE

INTRUSIVE ROCKS

PERMIAN

Plg — Leucogabbro, gabbro, diabase.

Pum — Brown-weathering, dark green to black, variably serpentinized ultramafic rock. Intrusive contacts locally preserved.

LAYERED ROCKS

MID-PERMIAN (TO TRIASSIC?)

Pcg — Red-brown to pale green matrix- and framework-supported polymictic conglomerate, pale green sandstone, dark grey siltstone and shale, and basalt. Conglomerate clasts include porphyritic basalt, aphyric massive basalt, chloritic phyllite, muscovite-quartz phyllite, siliceous carbonaceous phyllite, carbonate, white bull quartz and meta-chert. Clasts of dacite, serpentinite, blueschist and eclogite have been reported from this unit elsewhere (Mortensen et al., 1999). Mid-Permian conodonts and U-Pb age dates have been reported from this unit in Watson Lake map area (J. Mortensen, pers. comm. 2000).

~~~~~~ UNCONFORMITY ~~~~~~

EARLY PERMIAN

CAMPBELL RANGE SUCCESSION

PCb — Medium to dark green basalt; generally massive, locally pillowed or fragmental; locally hematized and interbedded with reddish jasperoidal silica.

PCc — Thin- to medium-bedded pink, green and white chert and lesser interbedded siliceous phyllite of the same colour.

~~~~~~ UNCONFORMITY ON ALL THRUST SHEETS ~~~~~~

FOOTWALL OF JULES CREEK THRUST

CARBONIFEROUS?

C?fv — Green, pink and brown muscovite-quartz phyllite, locally with quartz and feldspar augen (felsic meta-volcanic rocks).

C?cs — Variably foliated dark grey and rarely pink phyllite; grey, white and rare pink ribbon chert; dark quartz sandstone, quartzofeldspathic sandstone, grit and conglomerate, and chert-pebble conglomerate.

C?iv — Dark green, chlorite-feldspar-quartz phyllite (intermediate meta-volcanic rocks).

C?l — Massive grey crinoidal limestone.

HANGING WALL OF JULES CREEK THRUST

PENNSYLVANIAN

Pcl — Dark grey phyllite, chert, chert-pebble conglomerate, quartzofeldspathic and volcanolithic greywacke and conglomerate, diamictite and minor limestone; possibly correlates with unit C?cs.

~~~~~~ UNCONFORMITY ON BOTH HANGING WALL AND FOOTWALL OF MONEY CREEK THRUST ~~~~~~

HANGING WALL OF MONEY CREEK THRUST

INTRUSIVE ROCKS

EARLY MISSISSIPPIAN

SIMPSON RANGE PLUTONIC SUITE

MSg / MSgs — Generally unfoliated biotite-hornblende granite and quartz monzonite, locally faulted, chloritized and hematized. MSgs: strongly foliated and lineated mylonitic MSg.

LATE DEVONIAN - EARLY MISSISSIPPIAN

Dqp — Mafic-poor, quartz-porphyritic granite. Cross-cutting relationships between granite and subvolcanic feeder dykes to DF basalt flows suggests that granite and basalt are coeval and that granite is likely coeval with unit DFr.

Dum — Brown-weathering, dark green to black variably serpentinized ultramafic rock. Gabbro and/or pyroxenite locally present. The unit is generally spatially associated, and inferred to be in intrusive contact, with DF. The unit locally occurs as isolated klippe of the Money Creek Thrust sheet and along the Money Creek Thrust as light-coloured fish-scale talc-serpentinite.

LAYERED ROCKS

CMCu — Undifferentiated layered rocks of the hanging wall of the Money Creek Thrust and unit Pcl, includes intermediate to felsic metavolcanic rocks, carbonate, and dark chert, greywacke and phyllite.

PENNSYLVANIAN

Pq — Massive brown to grey quartz sandstone/quartzite.

UPPER MISSISSIPPIAN TO MID-PENNSYLVANIAN

Cc — Massive grey bioclastic crinoidal limestone.

LOWER MISSISSIPPIAN

Miv — Green to white chlorite-muscovite-quartz phyllite of intermediate and lesser felsic compositions; locally quartz and feldspar augen present.

UPPER DEVONIAN

DF / DFcp / DFr — Foliated and lineated chloritic phyllite; lesser carbonaceous phyllite, grey quartzite and marble. In roof pendant of MSg (105G/8), unit DF comprises tilted yet undeformed massive to pillowed basalt, maroon and green fragmental basalt, pink and green shale and cherty shale, tan greywacke and a middle member of pink to brown, locally quartz-porphyritic rhyolite (DFr). Contradictory cross-cutting relationships between dykes feeding unit DF basalt and dykes of Dqp feeding unit DFr rhyolite indicate that they are approximately coeval. Outside of the pendant, the unit is foliated and lineated, and contains mappable bands of carbonaceous phyllite and quartzite, and grey marble (DFcp).

FOOTWALL OF MONEY CREEK THRUST

EARLY MISSISSIPPIAN

WOLVERINE SUCCESSION

MWb — Chloritic phyllite occurring discontinuously beneath unit Pcl.

MWt — Thinly interbedded (cm-scale) massive to granular siliceous rock and light coloured phyllite (metatuff and exhalite). Siliceous rock is pale-coloured, locally massive and bedded on metre-scale at base where associated with baritic iron formation; darker near top where intercalated phyllite is dark grey. One band of platy brown limestone in upper part of unit.

MWf — Tan, grey and brown, variably altered muscovite-quartz phyllite (MWf) and quartz-feldspar augen phyllite (meta-porphyry).

MWcp — Carbonaceous phyllite and quartz sandstone.

MWcl — Salt and pepper, grey to dark grey, coarse-grained feldspathic meta-sandstone, grit and carbonaceous phyllite.

~~~~~~ UNCONFORMITY ~~~~~~

INTRUSIVE ROCKS

EARLY MISSISSIPPIAN

GRASS LAKES PLUTONIC SUITE

MGg / MGag — Foliated and lineated, medium- to coarse-grained granitic to monzonitic metaplutonic rock. Generally equigranular, although augen texture (MGag) locally present. Locally discordant with earliest foliation.

LATE DEVONIAN

NORTH LAKES META-DIORITE

DNd — Foliated hornblende-biotite meta-diorite.

DMi — Leuco-amphibolite (meta-gabbro) and amphibolite (meta-pyroxenite).

Dum — Brown-weathering, dark green to black variably serpentinized ultramafic rock. The unit is generally spatially associated and inferred to be in intrusive contact with DF. The unit is also locally surrounded by unit Dq, also presumably with intrusive contacts.

LAYERED ROCKS

UPPER DEVONIAN (TO LOWER MISSISSIPPIAN?)

GRASS LAKES SUCCESSION

DMq — Massive, white to mauve quartzite.

DMm — Chloritic phyllite, locally with round mm-scale calcite blebs inferred to be amygdules.

DMcp — Carbonaceous phyllite and grey quartzite.

DMcg — Quartzofeldspathic-pebble metaconglomerate.

Kudz Ze Kayah felsic metavolcanic unit

DK — Undifferentiated foliated feldspar-muscovite-quartz schist or phyllite, massive pale siliceous muscovite-quartz schist or phyllite, locally with quartz amygdules; feldspar- and rarely quartz-augen schist or phyllite (meta-porphyry), and thin calcite-plagioclase-biotite schist. Interbeds of carbonaceous phyllite are common. Magnetite iron formation occurs locally near the top of the unit in carbonaceous phyllite and thin felsic schist.

DKcp — Carbonaceous phyllite and grey quartzite.

DKcs — Discontinuous (traceable for over a kilometre but not throughout the map area) bodies of calcareous muscovite-quartz metasandstone and grit locally with graded bedding and shale chips.

Fire Lake metavolcanic unit

DF — Massive to subtly layered, plagioclase-chlorite phyllite or schist, locally with biotite and actinolite porphyroblasts; lesser carbonaceous phyllite, tan muscovite-quartz phyllite (felsic metavolcanic rock), grey quartzite and marble. Rare orange-brown-weathering carbonate-clast pebble to cobble conglomerate.

UPPER DEVONIAN AND OLDER?

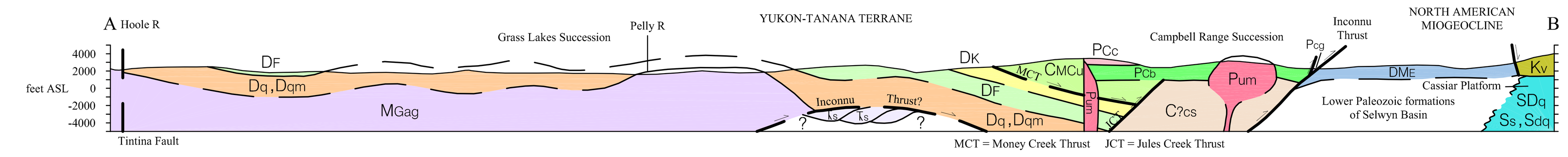
Dq — Interbedded tan- to brown-weathering biotite-muscovite-feldspar quartz psammitic schist and quartz-biotite-muscovite metapelitic schist. Thin intervals of marble and calc-schist not mappable at 1:50 000-scale occur locally.

Dqm — Grey to orange-brown micaceous marble, calcareous schist and lesser carbonaceous phyllite.

Dm — Biotite-plagioclase-actinolite-chlorite schist similar to DF found locally near top of unit Dq.

Dfv — Feldspar muscovite-quartz schist (felsic metavolcanic rock).

Yukon Government



MINERAL OCCURRENCES
Yukon MINFILE (2001)

MINFILE No.	Symbol	Name(s)	Deposit Type	Status	Map Unit
105G 013	◒	HOO	Skarn (Pb-Zn)	Drilled Prospect	
105G 014	★	CHER	Exploration Target	Anomaly	Dq
105G 015	◆	NAN	Volcanogenic	Anomaly	DF
105G 016	◆	EL	Volcanogenic	Prospect	Dfv
105G 017	◊	PICK	Vein (Ag-Pb)	Showing	
105G 018	◊	GRASS	Vein (W-Mo)	Showing	
105G 019	◐	BOOT	Skarn (W)	Drilled Prospect	
105G 020	★	RILEY	Exploration Target	Anomaly	
105G 021	◊	ZIELINSKI	Vein (Zn-Pb-Cu)	Showing	
105G 022	★	OUR	Exploration Target	Unknown	
105G 023	★	GIL	Exploration Target	Unknown	
105G 024	◆	GOD	Volcanogenic	Anomaly	DF
105G 025	★	CHISOLM	Exploration Target	Anomaly	
105G 026	◆	RIVIERA	Volcanogenic	Drilled Prospect	DF
105G 027	◊	LEO	Vein (Cu-Au)	Prospect	DF
105G 028	◆	GYP	Volcanogenic	Prospect	DF/Dfv
105G 029	◊	GEE	Vein (Pb)	Showing	
105G 030	★	PIT	Exploration Target	Showing	Kg
105G 031	◆	ROB, FIRST BASE	Volcanogenic	Drilled Prospect	DF/Dfv
105G 032	◆	PACK	Volcanogenic	Drilled Prospect	DK
105G 033	★	TAK	Exploration Target	Anomaly	
105G 039	◊	VINCENT	Vein (Zn-Ag-Pb-Cu)	Showing	
105G 040	◆	JAY, FISHER	Volcanogenic	Drilled Prospect	MWq
105G 041	★	FINLAYSON	Exploration Target	Anomaly	
105G 042	★	MCEVOY	Exploration Target	Anomaly	
105G 043	▲	BOT	Ultramafic (Asb)	Showing	Pum
105G 044	★	MINK	Exploration Target	Unknown	
105G 045	★	STARR	Exploration Target	Anomaly	
105G 046	★	TAG	Exploration Target	Unknown	
105G 047	★	HORTON	Exploration Target	Unknown	
105G 048	◆	ELDORADO, PUP	Volcanogenic	Drilled Prospect	DF
105G 049	★	COW	Exploration Target	Anomaly	
105G 050	★	ELK	Exploration Target	Unknown	
105G 051	◆	CHOW	Volcanogenic	Prospect	CMCu
105G 052	◆	DOL	Volcanogenic	Prospect	DF
105G 053	▬	CAMPBELL	Coal	Anomaly	
105G 054	★	SUN	Exploration Target	Anomaly	
105G 055	◊	PHIL	Vein (Zn)	Drilled Prospect	
105G 056	◁▷	PAY	SEDEX (Zn-Pb)	Drilled Prospect	DMe
105G 061	◆	HOOLE	Volcanogenic	Showing	Dfv
105G 066	★	CW	Exploration Target	Anomaly	
105G 067	★	GEE, LAWN	Exploration Target	Unknown	
105G 069	◒	FISH, IRENE, HARMAN	Skarn (Zn-Cu)	Prospect	
105G 070	◆	ELECTRIC MINE, RENO	Volcanogenic	Prospect	CMCu
105G 071	◐	MYDA	Skarn (W)	Prospect	
105G 072	◆	WOLVERINE, FETISH	Volcanogenic	Deposit	MWf
105G 073	▲	QUANDARY	Ultramafic (Ni-Cu ± Asb)	Anomaly	Pum
105G 074	▲	BEV	Ultramafic (Ni-Cu ± Asb)	Anomaly	Dum
105G 075	★	MCINTOSH	Exploration Target	Anomaly	
105G 076	◆	FREBERG	Volcanogenic	Prospect	DF
105G 077	◆	FLIN	Volcanogenic	Drilled Prospect	Dfv
105G 078	★	FLON	Exploration Target	Anomaly	
105G 079	★	HUDSON	Exploration Target	Anomaly	
105G 080	★	BEV, AIRBORNE	Exploration Target	Drilled Prospect	
105G 081	◆	MONEY, PNEUMONIA	Volcanogenic	Showing	DK
105G 088	★	COOKIE	Exploration Target	Anomaly	
105G 089	★	HENNEL	Exploration Target	Anomaly	
105G 091	★	CARLOS, TUF	Exploration Target	Unknown	
105G 094	◁▷	DWONK	SEDEX (Ba)	Drilled Prospect	DME
105G 095	★	PEANUTS, SLATE	Exploration Target	Unknown	
105G 097	◐	FOG	Skarn (W)	Showing	
105G 099	◆	BRENDEX	Volcanogenic	Prospect	DF
105G 100	◆	EAGLE, HARRIS	Volcanogenic	Prospect	DF
105G 101	★	ADDISON	Exploration Target	Drilled Prospect	
105G 102	◓	HOWDEE	Skarn (Ag-Au)	Showing	
105G 104	◐	SANDERS	Skarn (W)	Drilled Prospect	
105G 107	★	RIVIER	Exploration Target	Anomaly	
105G 108	★	WOLV	Exploration Target	Unknown	
105G 109	★	COPLAND	Exploration Target	Unknown	
105G 110	★	ETS	Exploration Target	Anomaly	
105G 111	★	TOR	Exploration Target	Unknown	
105G 112	★	DESOTO	Exploration Target	Drilled Prospect	
105G 113	★	AZZUS	Exploration Target	Anomaly	
105G 114	△	LADY LEE	Ultramafic (Jade)	Showing	Dum
105G 115	◊	ANDY, JEFF	Vein (Ag-Pb-Zn)	Prospect	
105G 116	★	CHARLIE	Exploration Target	Anomaly	
105G 117	◆	ABM, KUDZ ZE KAYAH, TAG	Volcanogenic	Deposit	DK
105G 118	◆	ICE	Volcanogenic	Deposit	PCb
105G 119	◆	SHOT	Volcanogenic	Showing	Dfv
105G 120	◆	BLUE LINE	Volcanogenic	Showing	Dfv
105G 121	◆	NET	Volcanogenic	Showing	Dfv
105G 122	◆	OVERTIME	Volcanogenic	Showing	DK
105G 123	◆	GOAL	Volcanogenic	Prospect	Dfv
105G 124	◆	RED LINE	Volcanogenic	Drilled Prospect	MGg
105G 125	◆	GOON	Volcanogenic	Anomaly	Dfv
105G 126	◆	RBI	Volcanogenic	Drilled Prospect	DK
105G 127	◆	COBB	Volcanogenic	Showing	DK
105G 128	★	DOG	Exploration Target	Anomaly	
105G 129	★	MAJOR	Exploration Target	Anomaly	
105G 130	★	LEAGUE	Volcanogenic	Drilled Prospect	DK
105G 131	★	DOT	Exploration Target	Anomaly	
105G 132	★	NECK	Exploration Target	Anomaly	
105G 133	◆	AREA 18	Volcanogenic	Drilled Prospect	Dq
105G 134	◆	PUCK	Volcanogenic	Drilled Prospect	MWf
105G 139	◆	ON	Volcanogenic	Drilled Prospect	DK
105G 140	◆	NAD	Volcanogenic	Drilled Prospect	MWq
105G 142	◆	FIRST BASE	Volcanogenic	Anomaly	Dfv
105G 143	◆	GP4F	Volcanogenic	Deposit	DK

● ISOTOPIC AGE DATES

	Sample	Date ± 2 sigma	Mineral	Comments	Reference
Eb					
1	LJ2206854	48.6 ± 3.4 Ma	whole rock	igneous crystallization age	(2)
2	LJ0906851	55.3 ± 4 Ma	whole rock	igneous crystallization age	(2)
3	LJ0906853	55.4 ± 4 Ma	whole rock	igneous crystallization age	(2)
4	LJ017853	46.4 ± 4.6 Ma	whole rock	igneous crystallization age	(2)
5	R5225	58.2 ± 4.6 Ma	whole rock	igneous crystallization age	(2)
Kg					
6	ARG-33	112.2 ± 0.5 Ma	monazite	igneous crystallization age	(5)
7	KG-31	113.0 ± 1.7 Ma	monazite	igneous crystallization age	(5)
8	KG-31	107.7 ± 5.5 Ma	zircon	igneous crystallization age	(5)
9	KG-31	103.8 ± 2.2 Ma	muscovite	igneous cooling age	(5)
10	KG-31	103.4 ± 1.8 Ma	biotite	igneous cooling age	(5)
11	KM-07	109.9 ± 0.5 Ma	monazite	igneous crystallization age	(5)
12	KP-09	113.8 ± 1.0 Ma	monazite	igneous crystallization age	(5)
13	MP-18	112.4 ± ? Ma	monazite	igneous crystallization age	(5)
14	MP-18	111.6 ± ? Ma	zircon	igneous crystallization age	(5)
15	MLB-89-321	90.8 ± 1.4 Ma	muscovite	igneous cooling age	(1)
16	MLB-89-321	100 ± 2.9 Ma	biotite	excess Ar	(1)
Jg					
17	DM-04	185.5 ± 1.0 Ma	titanite	igneous cooling age	(5)
18	DM-04	187.6 ± 2.0 Ma	zircon	igneous crystallization age	(5)
19	MLB-89-322a	180.9 ± 2.6 Ma	hornblende	igneous cooling age	(1)
Plg					
20	GL-10	274.3 ± 0.5 Ma	zircon	igneous crystallization age	(4)
21	98DM-GB	273.4 ± 2.1 Ma	zircon	igneous crystallization age	Mortensen and Murphy, unpub.
MGg / MGag					
22	AG-06	343 ± ? Ma	zircon	analytically uncertain	(3) & (5)
23	AG-48	342 +7.1/-8.0 Ma	zircon	igneous crystallization age	(3) & (5)
24	GG-19	360.0 ± 1.0 Ma	zircon	igneous crystallization age	(3) & (5)
25	GG-20	ca. 360 Ma	zircon	sample plots in unit MWcl; could be quartzofeldspathic metacon-glomerate derived from unit MGg	(3) & (5)
26	96DM-119	357.3 ± 2.8 Ma	zircon	igneous crystallization age; 4 point discordia; body cuts fabric	Mortensen and Murphy, unpub.
27	98DM-88	361.1 ± 3.3 Ma	zircon	igneous crystallization age	Mortensen and Murphy, unpub.
MWf / MWq					
29	P98-69	346.6 ± 2.2 Ma	zircon	igneous crystallization age	Piercey and Mortensen, unpub.
30	FV-21	356 ± 1.0 Ma	zircon	igneous crystallization age	(3) & (5)
DK					
31	FV-16	359.8 ± 9.0 Ma	zircon	sequence intruded by MGg as old as 360 so age too young	(3) & (5)
32	FV-49	351.4 ± 1.7 Ma	zircon	" "	(3) & (5)
33	P98-KZK	356.9 ± 5.3 Ma	zircon	" "	Piercey and Mortensen, unpub.
DNd					
34	HD-35	364.5 ± 2.5 Ma	zircon	igneous crystallization age	(3) & (5)
35	96DM-65	366.3 ± 10.2 Ma	zircon	igneous crystallization age	Mortensen and Murphy, unpub.
Dqp					
36	QP-30	360.5 ± 1.9 Ma	zircon	igneous crystallization age	(4)
MSg					
37	98DM-GRD	347.3 ± 3.7 Ma	zircon	igneous crystallization age	Mortensen and Murphy, unpub.
Dfv					
38	GM-11	ca. 360 Ma	zircon	analytical problems	(3) & (5)
39	GM-12	ca. 360 Ma	zircon	analytical problems	(3) & (5)
Metamorphic Cooling Ages					
40	AG-06	112.2 ± 0.5 Ma	monazite	unit MGag	(5)
41	AG-08	105 ± 2.0 Ma	wr-muscovite	unit MGag	(5)
42	GG-20	ca. 112 Ma	monazite	possibly unit MWcl	(5)
43	MLB-89-320	104.6 ± 1.8 Ma	muscovite	unit MGag	(1)
44	MLB-89-326a	104.6 ± 2.0 Ma	biotite	unit MGg	(1)
45	MLB-89-328	113.4 ± 1.8 Ma	muscovite	unit MGag	(1)
46	WB-64-207-2	101 ± 5 Ma	biotite	unit DF	(6)
47	96JT22-2	109.9 ± 1.3 Ma	biotite	unit MGg	Murphy and Villeneuve, unpub.
48	96DM-6	113.2 ± 1.1 Ma	biotite	unit DF	Murphy and Villeneuve, unpub.
49	96DM-95	112.5 ± 1.09 Ma	biotite	unit DK	Murphy and Villeneuve, unpub.
50	97DM-180	110.9 ± 1.12 Ma	biotite	unit Dqm	Murphy and Villeneuve, unpub.
51	97DM-182	123.5 ± 1.32 Ma	hornblende	unit DF	Murphy and Villeneuve, unpub.
52	97DM-275	109.6 ± 1.08 Ma	biotite	unit DF	Murphy and Villeneuve, unpub.
53	97DM-330	110.0 ± 1.08 Ma	biotite	unit Dq	Murphy and Villeneuve, unpub.
54	97DM-330	140.0 ± 1.49 Ma	hornblende	unit Dq	Murphy and Villeneuve, unpub.
55	98DM-201	107.5 ± 1.0 Ma	biotite	unit DK	Murphy and Villeneuve, unpub.
56	P98-136	106.5 ± 1.04 Ma	biotite	unit DK	Murphy and Villeneuve, unpub.

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Ⓕ FOSSILS

	Sample	Fossils	Period	Reference
ꞮI / ꞯs				
1	83-MJO-CA6571	conodonts	Late Triassic, Early Norian	(2)
2	83-MJO-CA6583	conodonts	Late Triassic, Early Norian	(2)
3	83-MJO-CA6751	conodonts	Late Triassic, Early Norian	(2)
4	83-MJO-CA6759	conodonts	Late Triassic, Early Norian	(2)
5	TOM-76-23	conodonts	Late Triassic, Early Norian	(2)
	TOM-76-23	conodonts	Late Triassic, Early Norian	(2)
6	TOM-76-23-11B	conodonts	Late Triassic, Early Norian	(2)
	TOM-76-23-11C	conodonts	Late Triassic, Early Norian	(2)
7	TO-76-12-6	conodonts	Late Triassic, Early Carnian	(2)
PCb				
8	HP469	radiolaria	mid-Pennsylvanian to Early Permian; Atokan or possibly Missourian to Wolfcampian	(1)
Cc				
9	TOM-76-14	conodonts	Late Carboniferous	(2)
	TOM-76-14-1	conodonts	Late Carboniferous	(2)
	TOM-76-24-118	conodonts	Pennsylvanian	(2)
10	96-OF-JH-STOP3	conodonts	Early Carboniferous, probably Serpukhovian	Orchard and Hunt, unpub.
Dl				
11	GGA-80-28A-246m	conodonts	Middle Devonian, probably Eifelian	Orchard and Gordey, unpub.
SDq / Ss				
12	TOA-73-81	graptolites	Early Silurian to Early Devonian	(2)

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SYMBOLS

Geological contact (approximate)

Fault or vein-fault, displacement unknown (approximate)

Thrust fault (approximate, teeth on hanging wall)

Normal fault (defined, dot on downthrown side)

Strike-slip fault (defined)

Limit of mapping

Isotopic age determination sample location (mineral codes: bi = biotite, hb = hornblende, mo = monazite, mu = muscovite, ti = titanite, wr = whole rock, zr = zircon) — ● *Age ± (2 sigma error) Ma system, mineral, (table entry no.)*

Fossil sample (number denotes entry number in legend fossil table) — Ⓕ (table entry no.)

Line of cross section — A B

Bedding measurement — 42

Foliation measurement — 23

New showing

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RECOMMENDED CITATION

Murphy, D.C., Colpron, M., Gordey, S.P., Roots, C.F., Abbott, G., Lipovsky, P.S., 2001. Preliminary bedrock geological map of northern Finlayson Lake area (NTS 105 G), Yukon Territory (1:100 000 scale). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 2001-33.

Digital cartography and drafting by Panya Lipovsky, Yukon Geology Program.

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

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Keep this map in a dark area to keep colours from fading.

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

Open File 2001-33

PRELIMINARY BEDROCK GEOLOGICAL MAP OF NORTHERN FINLAYSON LAKE AREA (NTS 105 G) YUKON TERRITORY (1:100 000 scale)

by

D.C. Murphy[1], M. Colpron[1], S.P. Gordey[2], C.F. Roots[1,2]
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(Sheet 2 of 2)

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Plotted December 17, 2001
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