

A preliminary uncoloured version of this map originally appeared page-size, together with a report, and was based on data collected during the 1992 field season (Gower et al., 1993), but was superseded by a preliminary coloured 1:100,000 map (Gower et al., 1995). Note that the map name 'Kyfanan Lake' replaced the earlier-used name 'Upper St. Lewis River' for the same map area. The current map incorporates field data collected by Eade (1962), making use of original field notes recorded by K.E. Eade and assistants. It also includes data stations resulting from projects straying from adjacent map areas (e.g., Bostock,

The present map is augmented by follow-up examination of stained slabs, petrographic thin sections, and whole-rock geochemical analyses. U-Pb geochronological results (Gower and Loveridge, 1987; Gower et al., 1991; Wasteneys et al., 1997), Nd-Sm isotopic data (R.A. Creaser, unpublished - see digital database and J.S. Daly, unpublished - see digital database), and K-Ar isotopic data (Gower et al., 1991) are included. Localities designated as mineral occurrences are based partly on observations made during the 1992 field season, but include later discoveries (see Mineral Occurrence Table; current to 2009). Since the preliminary map was published, interpretation for the region has evolved, so there are some differences between the current and earlier versions of this map. Unit modification is partly related to an integrated compilation approach applied to the whole of eastern Labrador, but border regions of the map have been revised as a result of data collected from adjacent map areas. Geological boundaries are poorly controlled, and have been extrapolated using structural observations, regional aeromagnetic data and topographic trends. Interpretation in the central and eastern segments was refined using industry highresolution aeromagnetic data. Data station sites have been digitized from where originally located on aerial photographs or (rarely) on topographic maps, so reliability of location is likely mostly dependent on initial plotting accuracy. As is characteristic of metamorphic and plutonic terranes, individual outcrops are typically very complex, and commonly embody several different rock types. Generally, the unit polygon depicted is based on what was judged to be the dominant rock type present, but this approach was not universally followed, due to the exigencies of specific situations, such as the need to emphasize minor rock types deemed to have high significance. All rock types recorded from any individual outcrop may be determined by consulting the 'Unit designator' string for that locality given in the digital database. The user is alerted to the fact that, in the digital database, no attempt has been made to reconcile rock names applied to field outcrops, versus those applied to stained slabs, or petrographic thin sections. Differences may be due to subsequent, more refined identifications, but other reasons may apply, such the sample (or thin section) not being representative of its source. Unit designator and polygon labels applied are based on an awareness of such factors.

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Province, southeast Labrador, Canada. Precambrian Research, Volume 81, pages 101-128.

Recommended citation Gower, C.F., 2010: Geology of the Kyfanan Lake area (NTS sheets 13A/03, 04, 05 and 06), southeastern Labrador. Geological Survey, Mines Branch, Department of Natural Resources, Government of Newfoundland and Labrador, Map 2010-23, Open File 013A/0082. Geological cartography by T. Paltanavage, Cartographic Unit, Geological Survey, Department of Natural Resources. Digital NTS base maps (NTS 13A/03, 04, 05 and 06) used for this map are available from Surveys and Mapping Branch, Natural Resources Canada. Magnetic declination at the centre of the map at the start of 2010 was 22° 05' W. Elevations are in metres above sea level. Contour interval is 20 metres.

UTM (Universal Transverse Mercator) Grid Zone 21, NAD (North American Datum) 27.

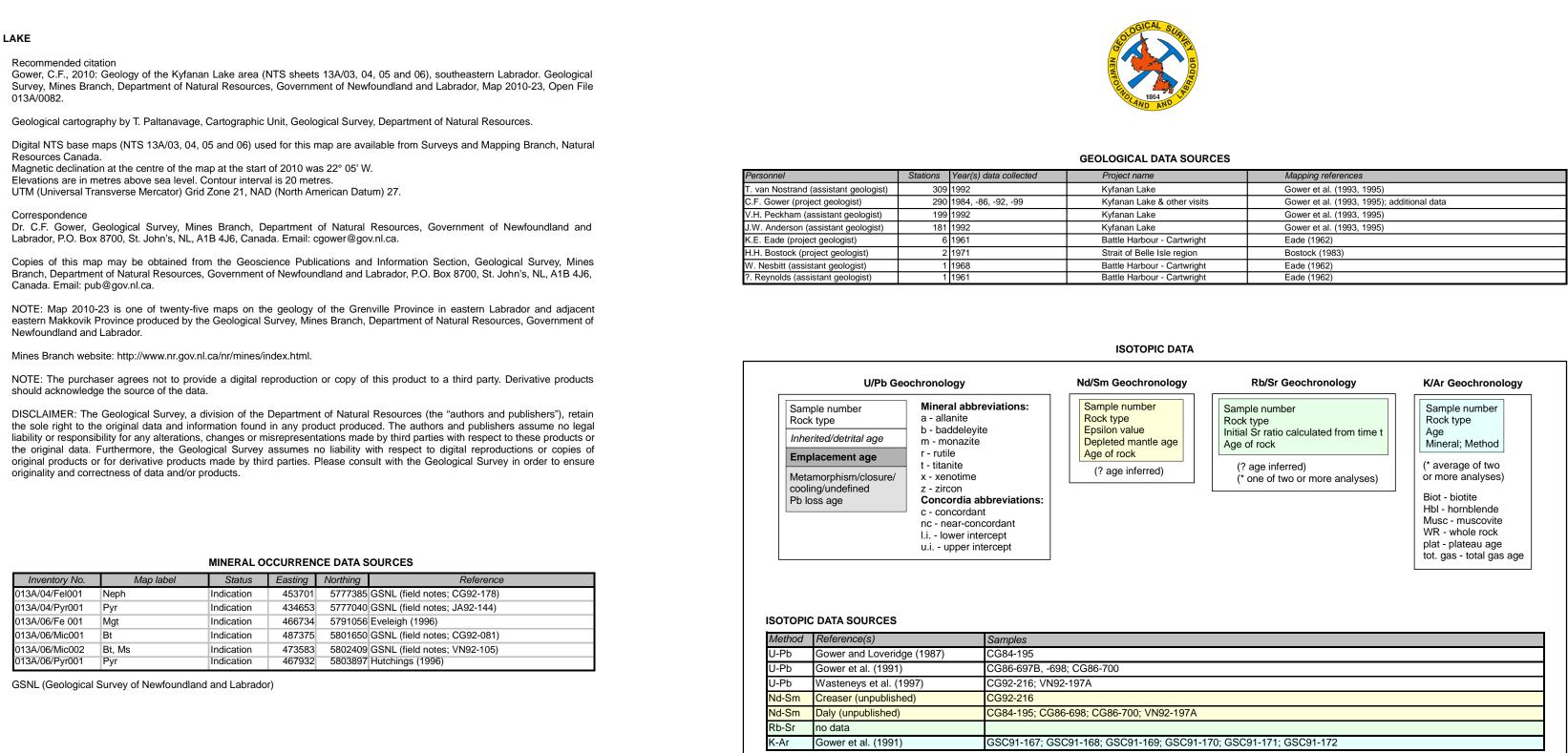
KYFANAN LAKE

Correspondence Dr. C.F. Gower, Geological Survey, Mines Branch, Department of Natural Resources, Government of Newfoundland and Labrador, P.O. Box 8700, St. John's, NL, A1B 4J6, Canada. Email: cgower@gov.nl.ca. Copies of this map may be obtained from the Geoscience Publications and Information Section, Geological Survey, Mines Branch, Department of Natural Resources, Government of Newfoundland and Labrador, P.O. Box 8700, St. John's, NL, A1B 4J6, Canada. Email: pub@gov.nl.ca. NOTE: Map 2010-23 is one of twenty-five maps on the geology of the Grenville Province in eastern Labrador and adjacent eastern Makkovik Province produced by the Geological Survey, Mines Branch, Department of Natural Resources, Government of Newfoundland and Labrador. Mines Branch website: http://www.nr.gov.nl.ca/nr/mines/index.html. NOTE: The purchaser agrees not to provide a digital reproduction or copy of this product to a third party. Derivative products should acknowledge the source of the data.

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Inventory No.	Map label	Status	Easting	Northing	
013A/04/Fel001	Neph	Indication	453701	5777385	GSNL (field notes; C
013A/04/Pyr001	Pyr	Indication	434653	5777040	GSNL (field notes; J/
013A/06/Fe 001	Mgt	Indication	466734	5791056	Eveleigh (1996)
013A/06/Mic001	Bt	Indication	487375	5801650	GSNL (field notes; C
013A/06/Mic002	Bt, Ms	Indication	473583	5802409	GSNL (field notes; V
013A/06/Pyr001	Pyr	Indication	467932	5803897	Hutchings (1996)





GSC91-167; GSC91-168; GSC91-169; GSC91-170; GSC91-171; GSC91-172

MINERAL OCCURRENCE ABBREVIATIONS				
Amz	Amazonite			
Au	Gold			
Bt	Biotite			
Cly	Clay			
Cr	Chromium			
Cu	Copper			
Fe	Iron			
Fel	Feldspar			
FI	Fluorite			
Gnt	Garnet			
llm	Ilmenite			
Lst	Limestone			
Mgt	Magnetite			
Мо	Molybdenite			
Ms	Muscovite			
Neph	Nepheline			
Ni	Nickel			
Pb	Lead			
Pd	Paladium			
Po	Pyrrhotite			
Pt	Platinum			
Pyr	Pyrite			
Saph	Sapphire			
Si	Silica			
Stn	Dimension stone			
Th	Thorium			
Tourm	Tourmaline			
Tpz	Topaz			
U	Uranium			
v	Vanadium			

NOTE: All mineral occurrence and structural symbols do not appear on each map. Vertical structures use 90° dip value. * Generation of structure only applicable at observation site.

Zirconium Occurrence reported

but validity suspect

Zinc

(?)

Scale 1:100 000 4 6

Kilometres

2

8

SYMBOLS

Geological contact		
Normal fault		
Strike-slip fault		\sim \sim \sim \sim \sim \sim
Thrust fault		
Normal fault reactivating thrust		_\ _
Fold axial plane (1st, 2nd, 3rd generation)*		-+++- r+++
S-fold axis (1st generation)		2+ >
Z-fold axis (1st generation)		2+ >
Dyke (affinity unspecified)		
Fault (sense of movement unknown, dextral, sinistral, no	ormal)	
Joint		
Linear fabric (1st, 2nd, 3rd generation)*		-+ > -+ > -++ >
Fold axis (1st, 2nd, 3rd generation)*		-+> -+> -++>
Slickenside		
Geological data station		×
Geological data station (no fabric measured)		*
Bedding (tops known, unknown)		
Enclave		
Foliation (1st, 2nd, 3rd generation)*		
Gneissosity (1st, 2nd generation)*		~> ~>
Igneous layering (tops known, unknown)		- <u></u> - -
Vein		
Shear zone (sense of movement unknown, dextral, sinistral, reverse)		┝┳┤╶┳╴╼╸ᡪ┳╸
Mineral occurrence		×
Geochronology location		•

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ADORIAN GRANITOID AND ASSOCIATED ROCKS (ca. 1678 and 1671 Ma) Island and Red Island events d Page Page Page Page Page Page Page Page
d P38gr P38gr P38gr P38gr P38gr ated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss; art derived from leucogabbronorite ated to gneissic granodiorite and compositionally equivalent well-banded gneiss ated to gneissic granodiorite and compositionally equivalent well-banded gneiss ated to gneissic granodiorite and compositionally equivalent well-banded gneiss ated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss ated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally equivalent well-banded gneiss ated to gneissic monzonite and monzodiorite, and compositionally equivalent well-banded gneiss ated to gneissic monzonite and monzodiorite, and compositionally equivalent well-banded ss ated to gneissic syenite, alkali-feldspar syenite and alkali-feldspar granite, and positionally equivalent well-banded gneiss ated to gneissic monzonite and monzodiorite, and compositionally equivalent well-banded ss
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ss ated to gneissic syenite, alkali-feldspar syenite and alkali-feldspar granite, and positionally equivalent well-banded gneiss
positionally equivalent well-banded gneiss
hibolite skialiths, lenses and layers (mainly remnants of former dykes)
DORIAN GRANITOID ROCKS (P _{3A} 1800 – 1710 Ma) r P _{3A} gd P _{3A} gp P _{3A} gr P _{3A} ln P _{3A} am
c granulite skialiths, lenses and layers
ated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss ated to gneissic granodiorite and compositionally equivalent well-banded gneiss
ated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss
ated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well- ded gneiss ated to gneissic leucogabbronorite, and compositionally equivalent well-banded gneiss
whibolite skialiths, lenses and layers (mainly remnants of former dykes)
DORIAN SUPRACRUSTAL ROCKS (P _{3A} 1800 – 1710 Ma) in; certainly pre-1670 Ma, probably 1800 – 1770 Ma)
P P _{3A} sq P _{3A} ss P _{3A} ss P _{3A} vf P _{3A} vm
protolith -silicate rocks, compositionally layered, medium grained
- to medium-grained pelitic schist and gneiss rtzite, meta-arkose, thin to thick bedded
rtz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering
asedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering olith
- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly ating felsic volcanoclastic protolith
- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate s; interpreted as mafic volcanic rocks
PROTEROZOIC (P ₂ 2100 – 1800 Ma) LEOPROTEROZOIC (P _{2C} 1900 – 1800 Ma)
I related intrusive rocks a: P _{2c} gd P _{2c} gr P _{2c} mq P _{2c} mz P _{2c} yq
ated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss
li-feldspar granite, granite and quartz syenite ated to gneissic granodiorite and compositionally equivalent well-banded gneiss
ated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss
ss ated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally
valent well-banded gneiss ated to gneissic monzonite to monzodiorite, and compositionally equivalent well-banded gneiss
ated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded ss
nite to quartz syenite
p P _{2C} d
hibolite skialiths, lenses and layers (mainly remnants of former dykes)
sive to strongly foliated gabbro and norite, commonly layered; subophitic and locally nitic
amed mafic dykes protolith
$P_{2C}sp P_{2C}sq P_{2C}ss$
-silicate rocks, compositionally layered, medium grained glomerate and agglomerate, partially of volcanic origin
- to medium-grained pelitic schist and gneiss
rtzite, meta-arkose, thin to thick bedded rtz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering
olith f P _{2C} vi P _{2C} vm P _{2C} vp
f P _{2C} vi P _{2C} vp anic breccia, angular clasts, grading into agglomerate
f P2cvi P2cvm P2cvp anic breccia, angular clasts, grading into agglomerate - - to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly sating felsic volcanoclastic protolith
f P2cvi P2cvm P2cvp anic breccia, angular clasts, grading into agglomerate -
f P2cvi P2cvm P2cvp anic breccia, angular clasts, grading into agglomerate - - to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly ating felsic volcanoclastic protolith mediate volcanic rocks - <

LEGE	END
DEVONIAN (?)	LATE PALEOPROTEROZOIC (P ₃ 1800 – 1600 Ma)
Dd Sandwich Bay and Battle Harbour dykes	LATE LABRADORIAN GRANITOID INTRUSIONS (P _{3C} 1660 – 1600 Ma) e.g., Paradise Arm intrusion and Hawke Bay intrusive suite
EARLY CAMBRIAN	$P_{3c}dr$ $P_{3c}ga$ $P_{3c}gg$
Bradore Formation (subdivided into L'Anse-au-Clair, Crow Head and Blanc-Sablon members)	$P_{3C}ga$ Alkali-feldspar granite, granite and quartz syenite forming discrete plutons
NEOPROTEROZOIC – EARLY CAMBRIAN	P _{3C} gd Granite to granodiorite forming discrete unmigmatized plutons
NCLc Lighthouse Cove Formation	P_{3C}gp Megacrystic/porphyritic granite to granodioriteP_{3C}gr Granite and minor alkali-feldspar granite
NEOPROTEROZOIC	P _{3C} mn Monzonorite and monzogabbro
NDm NGi NSb	P _{3C} mq Quartz monzonite, including rare quartz syenite
NDm Double Mer Formation	P_{3C}mz Monzonite, including minor syeniteP_{3C}yq Syenite to quartz syenite forming discrete plutons
NGi Gilbert arkose NSb Sandwich Bay conglomerate	
	P _{3C} d Unnamed mafic dykes
Nc Clastic dykes	LATE LABRADORIAN ANORTHOSITIC AND MAFIC INTRUSIONS (P _{3C} 1660 – 1600 Ma) e.g., White Bear Arm complex and Sand Hill Big Pond intrusion
Nd Long Range dykes	P3cag P3can P3crg P3cln P3clt P3cum P3cag Weakly to markedly foliated mafic granulite, plus leucocratic and melanocratic variants
Nq Quartz veins LATE MESOPROTEROZOIC (M $_3$ 1200 – 900 Ma)	 P_{3C}ag Weakly to markedly foliated mafic granulite, plus leucocratic and melanocratic variants P_{3C}am Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants
LATE POST-GRENVILLIAN INTRUSIONS (M _{3D} ca. 975 – 955 Ma) e.g., Chateau Pond granite	P _{3C} an Massive to strongly foliated anorthosite and leucogabbronorite
M _{3D} gp M _{3D} gr M _{3D} ln M _{3D} mn M _{3D} mq M _{3D} mz M _{3D} yq M _{3D} d	P _{3C} rg Massive to strongly foliated gabbro and norite, commonly layered; subophitic and locally coronitic
 M_{3D}gp Massive to weakly foliated megacrystic/porphyritic granite to quartz monzonite M_{3D}gr Massive to weakly foliated granite to alkali-feldspar granite 	P _{3C} In Primary textured to recrystallized leucogabbronorite and leucogabbro; coronitic locally
M _{3D} In Massive to weakly foliated leucogabbro to leuconorite	 P_{3C}It Primary textured to recrystallized leucotroctolite P_{3C}um Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally showing
M _{3D} mn Massive to weakly foliated monzogabbro and monzonorite	cumulate textures
M _{3D} mq Massive to weakly foliated quartz monzonite; mantled feldspar textures M _{3D} mz Massive to weakly foliated monzonite to monzodiorite	EARLY LABRADORIAN MAFIC AND ASSOCIATED ROCKS (P_{3B} 1710 – 1660 Ma) e.g., Alexis River anorthosite (assigned here although age is uncertain)
M _{3D} mz Massive to weakly foliated monzonite to monzodiorite M _{3D} yq Massive to weakly foliated syenite, quartz syenite and alkali-feldspar quartz syenite	P3Bag:P3BanP3BInP3BmnP3BrgP3BumP3BagWeakly foliated to gneissic amphibolite and mafic granulite, plus leucocratic and
M _{3D} d Unnamed mafic dykes	P _{3B} an Weakly foliated to gneissic anorthosite and leucogabbronorite
EARLY POST-GRENVILLIAN INTRUSIONS (M _{3C} ca. 985 – 975 Ma)	 P_{3B}an Weakly foliated to gneissic anorthosite and leucogabbronorite P_{3B}In Weakly foliated to gneissic leucogabbronorite and leucogabbro; coronitic locally
e.g., Beaver Brook and Picton Pond plutons M _{3c} gr M _{3c} ln M _{3c} mn M _{3c} mq M _{3c} rg M _{3c} yq M _{3c} d	$P_{3B}mn$ Weakly foliated to gneissic monzonorite and monzogabbro
M _{3c} gr Weakly to moderately foliated granite to alkali-feldspar granite	P _{3B} rg Weakly foliated to gneissic gabbro and norite
M _{3C} In Weakly to moderately foliated leucogabbro to leuconorite	P _{3B} um Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally showing cumulate textures
 M_{3c}mn Weakly to moderately foliated monzogabbro to monzonorite M_{3c}mq Weakly to moderately foliated monzonite to quartz monzonite 	EARLY LABRADORIAN GRANITOID AND ASSOCIATED ROCKS (ca. 1678 and 1671 Ma) e.g., Neveisik Island and Red Island events
M _{3C} rg Weakly to moderately foliated gabbro, norite and troctolite	P _{3B} dr P _{3B} gd P _{3B} gp P _{3B} gr P _{3B} mq P _{3B} mz P _{3B} ya P _{3B} am
M _{3C} yq Weakly to moderately foliated syenite, quartz syenite and alkali-feldspar syenite	P _{3B} dr Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss; in part derived from leucogabbronorite
M _{3C} d L'Anse-au-Diable, York Point, Gilbert Bay mafic dykes	 P_{3B}gd Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss P_{3B}gp Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss
SYN-GRENVILLIAN INTRUSIONS (M _{3B} ca. 1085 – 985 Ma)	P _{3B} gr Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-
M _{3B} gd M _{3B} gr M _{3B} d M _{3B} gd Moderately to strongly foliated granodiorite to quartz diorite	banded gneiss P _{3B} mq Foliated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally
M _{3B} gp Moderately to strongly foliated megacrystic/porphyritic granodiorite to quartz diorite	equivalent well-banded gneiss
M _{3B} gr Moderately to strongly foliated granite to alkali-feldspar granite	P _{3B} mz Foliated to gneissic monzonite and monzodiorite, and compositionally equivalent well-banded gneiss
M _{3B} yn Moderately to strongly foliated aegerine- or nepheline-bearing syenite	P _{3B} ya Foliated to gneissic syenite, alkali-feldspar syenite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss
M _{3B} d Unnamed mafic dykes (Makkovik Province and adjacent Grenville Province)	P _{3B} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes)
PRE-GRENVILLIAN INTRUSIONS (M _{3A} ca. 1200 – 1085 Ma) e.g., Gilbert Bay pluton	PRE-LABRADORIAN GRANITOID ROCKS (P _{3A} 1800 – 1710 Ma)
M _{3A} gr M _{3A} mn	P _{3A} ag P _{3A} dr P _{3A} gd P _{3A} gr P _{3A} ln P _{3A} am
M _{3A} gr Weakly to strongly foliated granite M _{3A} mn Weakly to strongly foliated monzonite to monzonorite	 P_{3A}ag Mafic granulite skialiths, lenses and layers P_{3A}dr Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss
MIDDLE MESOPROTEROZOIC (M ₂ 1350 – 1200 Ma)	P _{3A} gd Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss
e.g., Upper North River intrusion $M_2 gr \qquad M_2 rg \qquad M_2 yq \qquad M_2 d \qquad \swarrow$	P _{3A} gp Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss
M ₂ gr Weakly to strongly foliated granite and alkali-feldspar granite	P _{3A} gr Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well- banded gneiss
M ₂ rg Weakly to strongly foliated gabbronorite (in database only - Lourdes-de-Blanc-Sablon intrusion, Quebec)	P _{3A} In Foliated to gneissic leucogabbronorite, and compositionally equivalent well-banded gneiss
M ₂ yq Weakly to strongly foliated syenite, quartz syenite and alkali-feldspar syenite	P _{3A} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes)
M ₂ d Mealy dykes	PRE-LABRADORIAN SUPRACRUSTAL ROCKS (P _{3A} 1800 – 1710 Ma) (Age uncertain; certainly pre-1670 Ma, probably 1800 – 1770 Ma)
EARLY MESOPROTEROZOIC (M1 1600 – 1350 Ma) e.g., Upper Paradise River, Kyfanan Lake and 13B/12 intrusions, and Michael Gabbro	P3ASC P3ASP P3ASQ P3ASS P3ASX P3AVf P3AVm
$M_1 an \qquad M_1 am \qquad M_1 dr \qquad M_1 gp \qquad M_1 gr \qquad M_1 ln \qquad M_1 mn \qquad M_1 mq \qquad M_1 mr \qquad M_1 rg \qquad M_1 rg \qquad M_1 um \qquad M_1 q \qquad M_1 d \qquad \swarrow$	Sedimentary protolith P _{3A} sc Calc-silicate rocks, compositionally layered, medium grained
M ₁ an Massive or weakly foliated anorthosite to leucogabbronorite, indistinctly layered in places	P _{3A} sp Fine- to medium-grained pelitic schist and gneiss
M ₁ am Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants; granulite facies equivalents	 P_{3A}sq Quartzite, meta-arkose, thin to thick bedded P_{3A}ss Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering
M ₁ dr Massive, weakly or strongly foliated diorite to amphibolite, may be metamorphic derivative of monzodiorite or leucogabbronorite	P _{3A} ss Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering
M1gp Moderately to strongly foliated megacrystic/porphyritic granitoid rocks	Volcanic protolith
M ₁ gr Massive, weakly or strongly foliated granite to quartz monzonite	P _{3A} vf Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith
M ₁ In Massive, weakly or strongly foliated leucogabbronorite and anorthositic gabbro, locally grading into gabbronorite, locally coronitic	P _{3A} vm Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks
M₁mn Moderately to strongly foliated monzonoriteM₁mq Moderately to strongly foliated monzonite to quartz monzonite	MID PALEOPROTEROZOIC (P ₂ 2100 – 1800 Ma) LATE MID PALEOPROTEROZOIC (P _{2C} 1900 – 1800 Ma)
M ₁ mz Moderately to strongly foliated monzonite to monzodiorite	Granitoid and related intrusive rocks
M ₁ rg Massive to strongly foliated gabbro, norite and troctolite, commonly layered; subophitic and locally coronitic; includes recrystallized derivatives retaining igneous textures	P2cdr P2cga P2cga P2cgr P2cgr P2cmq P2cmz P2cya P2cyq P2cdr Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss
M ₁ um Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally showing	P _{2C} ga Alkali-feldspar granite, granite and quartz syenite
cumulate textures M ₁ yq Moderately to strongly foliated syenite and quartz syenite	P _{2C} gd Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss
M ₁ d Mafic dykes; includes Michael Gabbro	 P_{2C}gp Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss P_{2C}gr Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded
M10 Matic dykes; includes Michael Gabbro	gneiss
(Ages generally unknown, but ca. 1650 Ma and 1500 – 1470 Ma rocks identified) RECRYSTALLIZED IGNEOUS ROCKS	P _{2C} mq Foliated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally equivalent well-banded gneiss
PMdr PMgd PMgr PMln PMmd PMrg PMrg PMyq PMam	P _{2C} mz Foliated to gneissic monzonite to monzodiorite, and compositionally equivalent well-banded gneiss
PMdr Medium-grained, equigranular, recrystallized weakly to strongly foliated diorite, quartz diorite and to leucoamphibolite	P _{2C} ya Foliated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss
PMgd Weakly to strongly foliated granite to granodiorite	P _{2C} yq Syenite to quartz syenite
PMgp Megacrystic/porphyritic recrystallized granite to quartz monzonite	Mafic and associated intrusive rocks P _{2C} am P _{2c} rg P _{2c} d
PMgr Medium- to coarse-grained, recrystallized weakly to strongly foliated granite and alkali-feldspar granite	P _{2C} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes)
 PMIn Medium- to coarse-grained, recrystallized leuconorite, leucogabbro PMmd Medium- to coarse-grained, recrystallized, weakly to strongly foliated, monzodiorite to monzonite 	P _{2C} rg Massive to strongly foliated gabbro and norite, commonly layered; subophitic and locally coronitic
PMmq Medium- to coarse-grained, recrystallized, weakly to strongly foliated quartz monzonite	P _{2C} d Unnamed mafic dykes
PMrg Medium- to coarse-grained, gabbro, norite and troctolite	Sedimentary protolith
PMtn Medium- to coarse-grained, recrystallized, weakly to strongly foliated tonalite to granodiorite	$P_{2C}sc P_{2C}so P_{2C}sp P_{2C}sq P_{2C}ss$
PMyq Medium- to coarse-grained, recrystallized, weakly to strongly foliated syenite, alkali-feldspar syenite and quartz syenite	 P_{2C}sc Calc-silicate rocks, compositionally layered, medium grained P_{2C}so Conglomerate and agglomerate, partially of volcanic origin
PMam Amphibolite; generally thought to be derived from mafic dykes	$P_{2C}sp$ Fine- to medium-grained pelitic schist and gneiss
SUPRACRUSTAL ROCKS PROVISIONALLY ASSIGNED AS PITTS HARBOUR GROUP	P _{2C} sq Quartzite, meta-arkose, thin to thick bedded
PMsc PMsq PMss PMsx PMuth PMvf PMvm	P _{2C} ss Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering
Sedimentary protolith PMsc Calc-silicate rocks, compositionally layered, medium grained	Polcanic protolith P2cvb P2cvf P2cvm P2cvp
PMsp Pelitic schist and gneiss	P _{2C} vb Volcanic breccia, angular clasts, grading into agglomerate
PMsq Quartzite, meta-arkose, thin to thick bedded PMss Quartz-feldspar psammitic schist and gneiss; medium grained	P _{2C} vf Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith
PMsx Coarse-grained to pegmatitic-granitic material (diatexite), characteristically associated with psammitic gneiss and quartzite	P _{2C} vi Intermediate volcanic rocks
Volcanic protolith	P _{2C} vm Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks
PMvf Fine- to medium-grained, banded quartzofeldspathic rocks; locally having lensoid shapes, possibly indicating felsic volcaniclastic protolith	P _{2C} vp Felsic volcanic porphyry interpreted to be hypabyssal
PMvm Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks	

AGE GENERALLY POORLY CONSTRAINED βδ B Brittle deformation: cataclastic ro

β	Brittle	deforma	tion; cat	aclastic rocks,
δ	Ductile	e deform	ation; m	ylonite, straight
AGE GI	ENERAL	LY POC	ORLY CO	ONSTRAINED
f	k	р	q	
f	Aplite,	microgr	anite (fe	lsite)
k	Carbo	nate veii	n	
р	Pegma	atite		
q	Quartz	z vein		

MAP 2010-23 OPEN FILE 013A/0082 **GEOLOGY OF THE KYFANAN LAKE AREA** (NTS SHEETS 13A/03, 04, 05 & 06) SOUTHEASTERN LABRADOR

ks, pseudotacholite

ght gneiss

NOTES

- 1. Legend is common to all maps (Map 2010-01 to Map 2010-25),
- but all units do not appear on every map. 2. Uncoloured units do not appear as polygons on maps,
- but are in unit-designator strings in database. 3. Some mafic dykes also shown as polygons (especially
- where orientation is unknown).