

PARTS OF GRAND LAKE AND NIPISHISH LAKE

The southern third of the present area was originally published as part of an uncoloured map, with accompanying report, by Erdmer (1984). The northern two-thirds were originally published as part of an uncoloured map, with accompanying report, by Gower (1986). Both previous maps and reports mainly covered areas farther east and superseded earlier documents by Erdmer (1983) and Gower (1984). The present map is augmented by follow-up examination of stained slabs, petrographic thin sections, and whole-rock geochemical analyses, including those archived by Erdmer. U-Pb geochronological results (Schärer et al., 1986; Gower and Kamo, 1997), Nd-Sm and Rb-Sr isotopic data (Schärer, 1991; Emslie et al., 1997), and a netic site of Fahrin and Larochelle (1972) are shown. No mineral occurrences are known in the man area The present map differs little from those published by Erdmer (1984) and Gower (1986). Unit modification is partly related to a compilation approach applied to the whole of eastern Labrador, but border regions of the map have been revised as a result of data integration with adjacent map areas. Geological boundaries are poorly controlled from outcrop data, and have been extrapolated using structural observations, regional aeromagnetic data and topographic trends. 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.

Recommended citation Gower, C.F., 2010: Geology of parts of the Grand Lake and Nipishish Lake areas (NTS sheets 13F/16, 13K/01 and 13K/08), central Labrador. Geological Survey, Mines Branch, Department of Natural Resources, Government of Newfoundland and Labrador, Map 2010-05, Open File LAB/1570. Geological cartography by T. Paltanavage, Cartographic Unit, Geological Survey, Department of Natural Resources.

Digital NTS base maps (NTS 13F/16; 13K/01 and 08) used for this map are available from Surveys and Mapping Branch, Natural Resources Canada. Magnetic declination at 53° 45' N, 60° 30' W at the start of 2010 was 22° 50' W.

Elevations are in feet above sea level. Contour interval is 50 feet. UTM (Universal Transverse Mercator) Grid Zone 20 (but projected in Zone 21), NAD (North American Datum) 27.

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Government of Newfoundland and Labrador, P.O. Box 8700, St. John's, NL, A1B 4J6, Canada. Email: pub@gov.nl.ca. NOTE: Map 2010-05 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.

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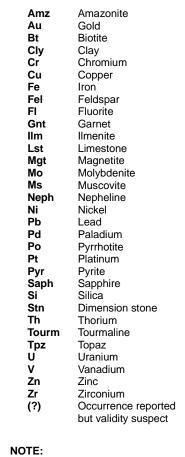
2008: Indentor tectonism in the eastern Grenville Province. Precambrian Research, Volume 167, pages 201-212.

Schärer, U.

1991: Rapid continental crust formation at 1.7 Ga from a reservoir with chondritic isotope signatures, eastern Labrador. Earth and Planetary Science Letters, Volume 102, pages 110-133. Schärer, U., Krogh, T.E. and Gower, C.F. 1986: Age and evolution of the Grenville Province in eastern Labrador from U-Pb systematics in accessory minerals. Contributions to Mineralogy and Petrology, Volume 94, pages 438-451.

Geological contact

MINERAL OCCURRENCE ABBREVIATIONS



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.

PALEOMAGNETIC DATA Paleomagnetic site number Reference source

Rb-Sr Schärer (1991)

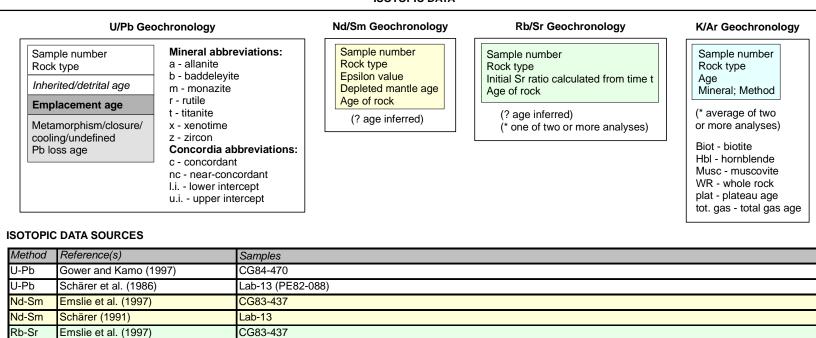
K, Ar no data

Normal fault	
Strike-slip fault	\sim \sim \sim \sim \sim
Thrust fault	
Normal fault reactivating thrust	_* _ * _
Fold axial plane (1st, 2nd, 3rd generation)*	г+- г++ r+++
S-fold axis (1st generation)	5+ >
Z-fold axis (1st generation)	2+->
Dyke (affinity unspecified)	
Fault (sense of movement unknown, dextral, sinistral, normal)	
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	- ç -
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	•

SYMBOLS

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ISOTOPIC DATA



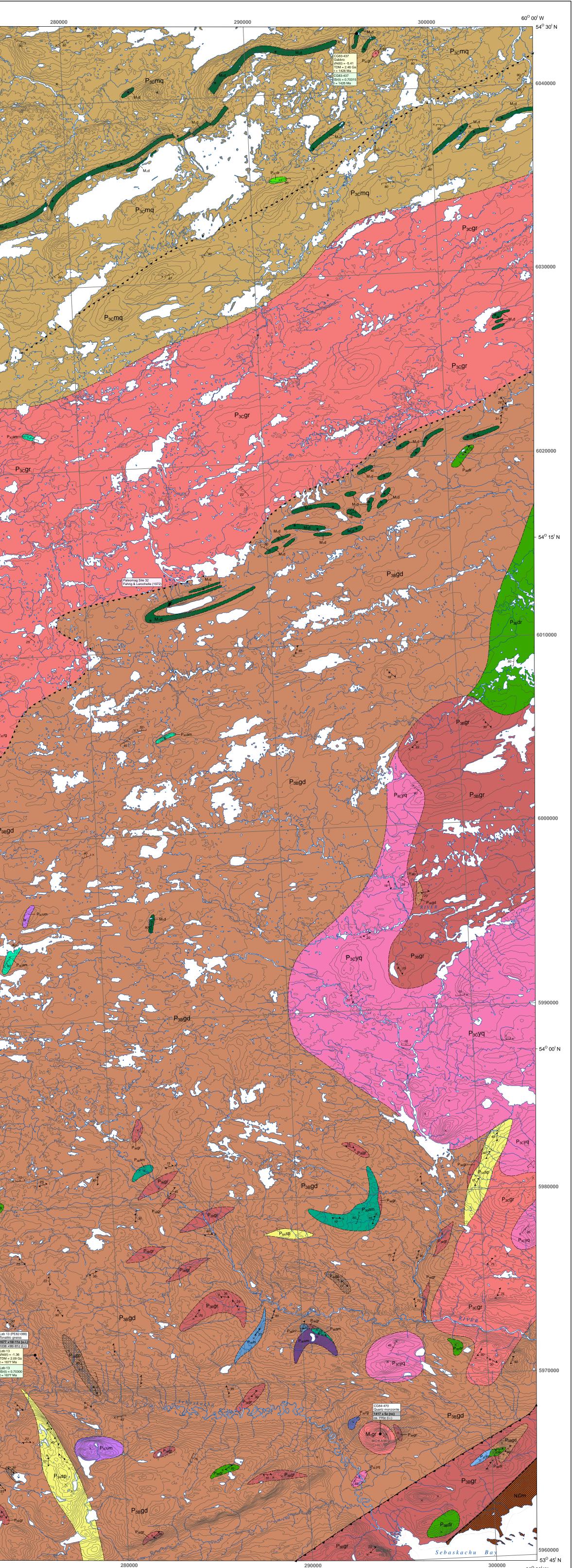
CG83-437

Lab-13

603000 602000 54⁰ 15¹ N-6010000 600000 54⁰ 00¹ N 5970000 53⁰ 45¹ N 60[°] 30^I W **270000**

60⁰ 30¹ W

54⁰ 30^l N 🚃



290000



MAP 2010-05

OPEN FILE LAB/1570 GEOLOGY OF PARTS OF THE GRAND LAKE AND NIPISHISH LAKE AREAS

(NTS SHEETS 13F/16, 13K/01 & 13K/08), EASTERN LABRADOR

		LEGEND
DEVON	IAN (?) Sandwich Bay and Battle Harbour dykes	L
	CAMBRIAN	e.
-CFo	Forteau Formation Bradore Formation (subdivided into L'Anse-au-Clair,	P
CBr	Crow Head and Blanc-Sablon members) OTEROZOIC – EARLY CAMBRIAN	P
NCLc	Lighthouse Cove Formation	P
	Bateau Formation OTEROZOIC	P
NDm	NG/ INSO	F
NDm NGi	Double Mer Formation Gilbert arkose	P
NSb	Sandwich Bay conglomerate	Ρ
Nc Nc	Nd Nq Clastic dykes	L. e.
Nd	Long Range dykes	
Nq	Quartz veins	P: P:
ATE PO	ESOPROTEROZOIC (M₃ 1200 – 900 Ma) DST-GRENVILLIAN INTRUSIONS (M₃D ca. 975 – 955 Ma) Iteau Pond granite	P
0000500	M _{3D} gr M _{3D} ln M _{3D} mn M _{3D} mq M _{3D} mz M _{3D} yq M _{3D} d	P
M _{3D} gp M _{3D} gr	Massive to weakly foliated megacrystic/porphyritic granite to quartz monzonite Massive to weakly foliated granite to alkali-feldspar granite	P: P:
∕l _{3D} In	Massive to weakly foliated leucogabbro to leuconorite	Pa
M _{3D} mn M _{3D} mq	Massive to weakly foliated monzogabbro and monzonorite Massive to weakly foliated quartz monzonite; mantled feldspar textures	E e.
M _{3D} mz	Massive to weakly foliated monzonite to monzodiorite	
⁄l₃ _D yq	Massive to weakly foliated syenite, quartz syenite and alkali-feldspar quartz syenite	P
A _{3D} d Arly f	Unnamed mafic dykes POST-GRENVILLIAN INTRUSIONS (M₃c ca. 985 – 975 Ma)	P
e.g., Bea M _{3C} gr	M _{3c} In M _{3c} mn M _{3c} mq M _{3c} rg M _{3c} yq M _{3c} d	Pa
∕l _{3C} gr	Weakly to moderately foliated granite to alkali-feldspar granite	P: P:
∕I _{3C} In ∕I _{3C} mn	Weakly to moderately foliated leucogabbro to leuconorite Weakly to moderately foliated monzogabbro to monzonorite	E
∕l _{3C} mq	Weakly to moderately foliated monzonite to quartz monzonite	e.
∕l _{3C} rg ∕l _{3C} yq	Weakly to moderately foliated gabbro, norite and troctolite Weakly to moderately foliated syenite, quartz syenite and alkali-feldspar syenite	P
Λ _{3C} d	L'Anse-au-Diable, York Point, Gilbert Bay mafic dykes	P
SYN-GR	ENVILLIAN INTRUSIONS (M _{3B} ca. 1085 – 985 Ma)	P: P:
M _{3B} gd M _{3B} gd	Moderately to strongly foliated granodiorite to quartz diorite	Pa
И _{зв} др	Moderately to strongly foliated megacrystic/porphyritic granodiorite to quartz diorite	P
И _{зв} gr И _{зв} уп	Moderately to strongly foliated granite to alkali-feldspar granite Moderately to strongly foliated aegerine- or nepheline-bearing syenite	Pa
∕l₃ _B d	Unnamed mafic dykes (Makkovik Province and adjacent Grenville Province)	
PRE-GR	RENVILLIAN INTRUSIONS (M _{3A} ca. 1200 – 1085 Ma) bert Bay pluton	P
J / -	M _{3A} mn	P
И _{зА} gr	Weakly to strongly foliated granite	P: P:
	Weakly to strongly foliated monzonite to monzonorite E MESOPROTEROZOIC (M ₂ 1350 – 1200 Ma)	P:
9.g., Up M₂gr	M ₂ rg M ₂ yq M ₂ d	P: P:
M₂gr	Weakly to strongly foliated granite and alkali-feldspar granite	_
M ₂ rg	Weakly to strongly foliated gabbronorite (in database only - Lourdes-de-Blanc-Sablon intrusion Quebec)	
M₂yq	Weakly to strongly foliated syenite, quartz syenite and alkali-feldspar syenite	P: PI
M₂d EARLY	Mealy dykes MESOPROTEROZOIC (M1 1600 – 1350 Ma)	A) 1
	per Paradise River, Kyfanan Lake and 13B/12 intrusions, and Michael Gabbro M_1 am M_1 dr M_1 gp M_1 gr M_1 ln M_1 mn M_1 mq M_1 mz M_1 rg M_1 um M_1 yq M_1	Si Pa
M₁an M₁an	Maan Made Mage Mage Mage Mage Mage Mage Mage Made Material Manual Manual Manual Mage Mage Mage Mage Mage Mage Mage Mage	Pa
∕l₁am	Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants; granulite facies equivalents	P ₂ P
∕l₁dr	Massive, weakly or strongly foliated diorite to amphibolite, may be metamorphic derivative of monzodiorite or leucogabbronorite	Pa Pa
ll₁gp	Moderately to strongly foliated megacrystic/porphyritic granitoid rocks	Vc Pa
⁄l₁gr ⁄l₁ln	Massive, weakly or strongly foliated granite to quartz monzonite Massive, weakly or strongly foliated leucogabbronorite and anorthositic gabbro, locally	
⁄l₁mn	grading into gabbronorite, locally coronitic Moderately to strongly foliated monzonorite	P₃
∕l₁mq	Moderately to strongly foliated monzonite to quartz monzonite	M L/ Gi
И₁mz И₁rg	Moderately to strongly foliated monzonite to monzodiorite Massive to strongly foliated gabbro, norite and troctolite, commonly layered; subophitic	Gi
⁄l₁rg ⁄l₁um	Massive to strongly foliated gabbro, nonte and troctolite, commonly layered; subophitic and locally coronitic; includes recrystallized derivatives retaining igneous textures Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally showing	P ₂
	cumulate textures	P ₂
l₁yq 1 d	Moderately to strongly foliated syenite and quartz syenite	P2
Λ₁d		P2
Ages g	ALEOPROTEROZOIC AND EARLY MESOPROTEROZOIC (PM 1800 – 1350 Ma) enerally unknown, but ca. 1650 Ma and 1500 – 1470 Ma rocks identified) TALLIZED IGNEOUS ROCKS	P
PMdr	PMgd PMgr PMgr PMin PMmd PMmq PMrg PMtn PMyq PMam	P ₂ P ₂
Mdr	Medium-grained, equigranular, recrystallized weakly to strongly foliated diorite, quartz diorite and to leucoamphibolite	P ₂
Mgd Mgp	Weakly to strongly foliated granite to granodiorite Megacrystic/porphyritic recrystallized granite to quartz monzonite	M
PMgr	Medium- to coarse-grained, recrystallized weakly to strongly foliated granite and alkali-feldspar granite	
MIn	granite Medium- to coarse-grained, recrystallized leuconorite, leucogabbro	P ₂
Mmd	Medium- to coarse-grained, recrystallized, weakly to strongly foliated, monzodiorite to monzoni	te
PMmq PMrg	Medium- to coarse-grained, recrystallized, weakly to strongly foliated quartz monzonite Medium- to coarse-grained, gabbro, norite and troctolite	P ₂ Se
Mtn	Medium- to coarse-grained, recrystallized, weakly to strongly foliated tonalite to granodiorite	F
РМуq	Medium- to coarse-grained, recrystallized, weakly to strongly foliated syenite, alkali-feldspar syenite and quartz syenite	P ₂
Mam	Amphibolite; generally thought to be derived from mafic dykes	P2
	RUSTAL ROCKS PROVISIONALLY ASSIGNED AS PITTS HARBOUR GROUP	P ₂ P ₂
	PMsp PMsq PMss PMsx PMvf PMvm atary protolith Image: Second S	Vo
PMsc PMsp	Calc-silicate rocks, compositionally layered, medium grained Pelitic schist and gneiss	P
PMsq	Quartzite, meta-arkose, thin to thick bedded	P ₂ P2
PMss PMsx	Quartz-feldspar psammitic schist and gneiss; medium grained Coarse-grained to pegmatitic-granitic material (diatexite), characteristically associated with	P2
YCIN	psammitic gneiss and quartzite	P2
/cl-	protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally having lensoid shapes,	P2
PM∨f	possibly indicating felsic volcaniclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate	
/olcanic PMvf PMvm	possibly indicating felsic volcaniclastic protolith	
PM∨f PM∨m	possibly indicating felsic volcaniclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate	
PMvf PMvm AGE GE	possibly indicating felsic volcaniclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks NERALLY POORLY CONSTRAINED δ	
°M∨f °M∨m AGE GE	possibly indicating felsic volcaniclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicat pods; interpreted as mafic volcanic rocks	
Mvf Mvm β β δ AGE GE	possibly indicating felsic volcaniclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks NERALLY POORLY CONSTRAINED δ Brittle deformation; cataclastic rocks, pseudotacholite Ductile deformation; mylonite, straight gneiss NERALLY POORLY CONSTRAINED	
PMvf PMvm AGE GE β β δ	possibly indicating felsic volcaniclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks NERALLY POORLY CONSTRAINED δ Brittle deformation; cataclastic rocks, pseudotacholite Ductile deformation; mylonite, straight gneiss NERALLY POORLY CONSTRAINED	B B B B B B B B B B B B B B B B B B B

ATE L	PALEOPROTEROZOIC (P ₃ 1800 – 1600 Ma) ABRADORIAN GRANITOID INTRUSIONS (P _{3C} 1660 – 1600 Ma) radise Arm intrusion and Hawke Bay intrusive suite
P _{3C} dr	P _{3c} ga P _{3c} gd P _{3c} gp P _{3c} gr P _{3c} mn P _{3c} mq P _{3c} mz P _{3c} yq P _{3c} d
⊃ _{3C} dr	Diorite, quartz diorite and tonalite; locally grading into leucogabbronorite Alkali-feldspar granite, granite and quartz syenite forming discrete plutons
⊃ _{3⊂} ga ⊃ _{3⊂} gd	Granite to granodiorite forming discrete unmigmatized plutons
⊃ _{3⊂} gp	Megacrystic/porphyritic granite to granodiorite
⊃ _{3⊂} gr ⊃ _{3⊂} mn	Granite and minor alkali-feldspar granite Monzonorite and monzogabbro
⊃ _{3C} mq	Quartz monzonite, including rare quartz syenite
⊃ _{3C} mz ⊃ _{3C} yq	Monzonite, including minor syenite Syenite to quartz syenite forming discrete plutons
P _{3C} d	Unnamed mafic dykes
ATE L	ABRADORIAN ANORTHOSITIC AND MAFIC INTRUSIONS (P _{3C} 1660 – 1600 Ma)
e.g., Wh P _{3C} ag	hite Bear Arm complex and Sand Hill Big Pond intrusion
P₃ _c ag	Weakly to markedly foliated mafic granulite, plus leucocratic and melanocratic variants
P _{3C} am P _{3C} an	Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants Massive to strongly foliated anorthosite and leucogabbronorite
₃ _c rg	Massive to strongly foliated gabbro and norite, commonly layered; subophitic and locally
P₃ _℃ In	coronitic Primary textured to recrystallized leucogabbronorite and leucogabbro; coronitic locally
P _{3C} lt	Primary textured to recrystallized leucotroctolite
∙ _{3C} um	Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally showing cumulate textures
e.g., Ale	LABRADORIAN MAFIC AND ASSOCIATED ROCKS (P _{3B} 1710 – 1660 Ma) exis River anorthosite (assigned here although age is uncertain)
P _{3B} ag P _{3B} ag	$P_{3B}an$ $P_{3B}ln$ $P_{3B}mn$ $P_{3B}rg$ $P_{3B}um$ Weakly foliated to gneissic amphibolite and mafic granulite, plus leucocratic and
P _{3B} an	melanocratic variants Weakly foliated to gneissic anorthosite and leucogabbronorite
P _{3B} In	Weakly foliated to gneissic leucogabbronorite and leucogabbro; coronitic locally
P _{3B} mn	Weakly foliated to gneissic monzonorite and monzogabbro
P _{3B} rg P _{3B} um	Weakly foliated to gneissic gabbro and norite Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally
	showing cumulate textures LABRADORIAN GRANITOID AND ASSOCIATED ROCKS (ca. 1678 and 1671 Ma)
e.g., Ne ⁻ P _{3B} dr	veisik Island and Red Island events P _{3B} gd P _{3B} gr P _{3B} gr P _{3B} mq P _{3B} mz P _{3B} ya P _{3B} am
P₃ _B dr	Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss; in part derived from leucogabbronorite
P₃₀gd	Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss
о _{зв} др о _{зв} дг	Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-
	Foliated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally
o _{3B} mq	equivalent well-banded gneiss
o _{3B} mz	Foliated to gneissic monzonite and monzodiorite, and compositionally equivalent well-banded gneiss
P₃₀ya	Foliated to gneissic syenite, alkali-feldspar syenite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss
°₃ _B am	Amphibolite skialiths, lenses and layers (mainly remnants of former dykes)
PRE-LA P _{3A} ag	BRADORIAN GRANITOID ROCKS (P _{3A} 1800 – 1710 Ma) P _{3A} dr P _{3A} gd P _{3A} gr P _{3A} gr P _{3A} ln P _{3A} am
P _{3A} ag	Mafic granulite skialiths, lenses and layers
P _{3A} dr P _{3A} gd	Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss
з _а gu	Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss
P _{3A} gr	Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well- banded gneiss
P _{3A} In	Foliated to gneissic leucogabbronorite, and compositionally equivalent well-banded gneiss
9 _{3A} am	Amphibolite skialiths, lenses and layers (mainly remnants of former dykes)
Age un	BRADORIAN SUPRACRUSTAL ROCKS (P _{3A} 1800 – 1710 Ma) certain; certainly pre-1670 Ma, probably 1800 – 1770 Ma)
P _{3A} sc Sedime	P _{3A} sp P _{3A} sq P _{3A} ss P _{3A} sx P _{3A} vf P _{3A} vm ntary protolith
9 _{3A} SC	Calc-silicate rocks, compositionally layered, medium grained
P _{3A} sp P _{3A} sq	Fine- to medium-grained pelitic schist and gneiss Quartzite, meta-arkose, thin to thick bedded
9 _{3A} SS	
	Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering
9 _{3A} SX (olcania	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering
	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering c protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly
olcanio	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering c protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate
/olcanic P _{3A} vf P _{3A} vm /IID PA	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering c protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks
Volcanio P _{3A} vf P _{3A} vm /IID PA .ATE M	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering c protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks LEOPROTEROZOIC (P ₂ 2100 – 1800 Ma) ID PALEOPROTEROZOIC (P _{2c} 1900 – 1800 Ma) id and related intrusive rocks
Volcanio D _{3A} Vf D _{3A} Vm MID PA ATE M Branito P _{2C} dr	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering c protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks ALEOPROTEROZOIC (P ₂ 2100 – 1800 Ma) ID PALEOPROTEROZOIC (P _{2c} 1900 – 1800 Ma) id and related intrusive rocks
/olcanid 2 _{3A} vf 2 _{3A} vm /IID PA .ATE M Granito	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering c protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks LEOPROTEROZOIC (P ₂ 2100 – 1800 Ma) ID PALEOPROTEROZOIC (P _{2c} 1900 – 1800 Ma) id and related intrusive rocks
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Volcanie Volcanie Volcanie Value Pa ATE M Granito P2cdr P2cdr P2cgg	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering c protelith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks LEOPROTEROZOIC (P ₂ 2100 – 1800 Ma) ID PALEOPROTEROZOIC (P ₂ c) 1900 – 1800 Ma) Id and related intrusive rocks File- to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss Aklali-feldspar granite, granite and quartz syenite Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss Foliated to gneissic granodiorite and acompositionally equivalent well-banded gneiss Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss Foliated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally equivalent well-banded gneiss Foliated to gneissic monzonite to monzodiorite, and compositionally equivalent well-banded gneiss Foliated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Foliated to gneissic monzonite to monzodiorite, and compositionally equivalent well-banded gneiss Foliated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent we
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Volcania Volcania	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering c prolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic problith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly pods; interpreted as mafic volcanic rocks LEDPROTEROZOIC (Pz 2100 – 1800 Ma) DPALCOPROTEROZOIC (Pz 1900 – 1800 Ma) Image: to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks Progit Paced Progit Paced Pacera Follated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss Follated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss Follated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss Follated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally equivalent well-banded gneiss Follated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Follated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Follated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Syen
Volcania Volcania	Wetasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering c protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanciastic protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly pods; interpreted as mafic volcanic rocks LEOPROTEROZOIC (Pz 2100 − 1800 Ma) DALEOPROTEROZOIC (Pz 100 − 1800 Ma) DALEOPROTEROZOIC (Pz 100 − 1800 Ma) Code as mafic volcanic rocks Pods interpreted as mafic volcanic rocks Ideal Telated intrusive rocks Proga Poorg Pointerozoic (Pz 2100 − 1800 Ma) Ideal related intrusive rocks Proga Poorg Pointerozoic (Pz 2100 − 1800 Ma) Ideal role species diorite to quartz diorite, and compositionally equivalent well-banded gneiss Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss Foliated to gneissic monzonite to monzodiorite, and compositionally equivalent well-banded gneiss Foliated to gneissic sysnite to alkali-feldspar sysnite, and compositionally equivalent well-banded gneiss Foliated to gneiss
All PA AATE M Paavm AID PA AATE M Pacar	Metasactimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafe: volcanic rocks; LEOPROTEROZOIC (Pg. 2100 – 1800 Ma) JD PALCPROTEROZOIC (Pg. 2100 – 1800 Ma) iand related intrusive rocks; Poilated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss; Folitaet to gneissic granotiorite and quartz syenite Folitaet to gneissic granotiorite and compositionally equivalent well-banded gneiss; Folitaet to gneissic granite and quartz syenite Folitaet to gneissic granotiorite and compositionally equivalent well-banded gneiss; Folitaet to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss; Folitaet to gneissic guartz monzonite, grading into diorite or syenite, and compositionally equivalent well-banded gneiss; Folitaet to quartz syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss; Folitaet to quartz syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss; Folitaet to quartz syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss; Folitaet to quartz syenite dascietaet intrusive rocks;
All PA AATE M AATE M Franito P2cdr P2cdr P2cga	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly prior to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks; LEOPROTEROZOIC (Pz 2100 – 1800 Ma) DPALOPROTEROZOIC (Pz 2100 – 1800 Ma) DPALOPROTEROZOIC (Pz 2100 – 1800 Ma) Main Feldeta Intrusive rocks Provid Provid Provid Provid Follated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss Follated to gneissic granoidorite and compositionally equivalent well-banded gneiss Follated to gneissic granite and quartz syenite Follated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss Follated to gneissic granite and alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Follated to gneissic granite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Follated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Follated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Follated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-bande
Volcanie Volcanie Volcanie Volcanie Val	Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly protociting felsic volcanciocastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks LEOPROTEROZOIC (Pg. 2100 – 1800 Ma) DPALOPROTEROZOIC (Pg. 2100 – 1800 Ma) iad rolated intrusive rocks Protolith Filated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss Foliated to gneissic granite and quartz syenite Foliated to gneissic granite and quartz syenite Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss Foliated to gneissic granite and alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Foliated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Foliated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Foliated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss Foliated to gneissic syeneite on alkali-feldspar syenite, and compo

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).

Map label Status Easting Northi

MINERAL OCCURRENCE DATA SOURCES

Kilometres

p Pegmatite q Quartz vein

k Carbonate vein

GEOLOGICAL DATA SOURCES						
Personnel	Stations	Year(s) data collected	Project name	Mapping references		
C.F. Gower (project geologist)	116	1983, -84	Double Mer & other visit	Gower (1984, 1986)		
P. Erdmer (project geologist)	70	1982	Lake Melville	Erdmer (1983, 1984)		
M.K. Wilson (assistant geologist)	56	1982	Lake Melville	Erdmer (1983, 1984)		
G. Bursey (assistant geologist)	9	1982	Lake Melville	Erdmer (1983, 1984)		