









UPPER ST. AUGUSTIN RIVER

REFERENCES Eade, K.E.

Report 2000-1, pages 179-196.

and 2000 field seasons (Gower, 2001). The present map also incorporates field data collected by Eade (1962), making use of original field notes recorded by K.E. Eade and assistants. The map is augmented by follow-up examination of stained slabs, petrographic thin sections and whole-rock geochemical analyses, and inclusion of U-Pb geochronological results (James et al., 2001; Gower et al., 2008b) and Nd-Sm isotopic data (R.A. Creaser, unpublished; see digital database). No mineral occurrences are known in the map area. Since the preliminary report, there has been some re-interpretation and redefinition of geological boundaries and units. The changes result from a compilation approach applied to the whole of eastern Labrador, and from integration with data from adjacent map areas. Data station locations are based on GPS-supported readings. Geological boundaries are poorly controlled, being positioned from outcrop data and extrapolated using structural observations, regional aeromagnetic data and topographic trends.

A preliminary coloured version of this map appeared page-size, together with a report, based on data collected during the 1999

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 material. Unit designator and polygon labels applied are based on an awareness of such factors.

Recommended citation Gower, C.F., 2010: Geology of the Upper St. Augustin River area (NTS sheets 13B/03, 04, 05 and 06), southeastern Labrador. Geological Survey, Mines Branch, Department of Natural Resources, Government of Newfoundland and Labrador, Map 2010-21, Open File 013B/0029. Geological cartography by T. Paltanavage, Cartographic Unit, Geological Survey, Department of Natural Resources.

Digital NTS base maps (NTS 13B/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° 04' 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.

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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 2010-21 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

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1962: Geology, Battle Harbour - Cartwright, coast of Labrador, Newfoundland. Geological Survey of Canada, Map 22-1962. Gower, C.F. 2001: Geology of the Upper St. Augustin River map region, Grenville Province, southeast Labrador. In Current Research. Newfoundland Department of Mines and Energy, Geological Survey Branch, Report 2001-1, pages 1-25. Gower, C.F., Kamo, S. and Krogh, T.E. 2008a: Indentor tectonism in the eastern Grenville Province. Precambrian Research, Volume 167, pages 201-212. Gower, C.F., Kamo, S., Kwok, K. and Krogh, T.E. 2008b: Proterozoic southward accretion and Grenvillian orogenesis in the interior Grenville Province in eastern Labrador; evidence from U-Pb geochronological investigations. Precambrian Research, Volume 165, pages 61-95. James D.T., Kamo, S., Krogh, T.E. and Nadeau, L. 2001: Preliminary U-Pb geochronological data from Mesoproterozoic rocks, Grenville Province, southern Labrador. In Current Research. Department of Mines and Energy, Newfoundland and Labrador, Geological Survey, Report 2001-1, pages 45-53. James, D.T. and Nadeau, L. 2000: Geology of the Minipi Lake Area (NTS 13C/south): new data from the southern Mealy Mountains terrane, Grenville Province, Labrador. In Current Research. Department of Mines and Energy, Newfoundland and Labrador, Geological Survey,

MINERAL OCCURRENCE DATA SOURCES Inventory No. Map label Status Easting Northing No mineral occurrence





GEOLOGICAL DATA SOURCES					
Personnel	Stations	Year(s) data collected	Project name	Mapping references	
C.F. Gower (project geologist)	379	1999; 2000	Upper St. Augustin River & other visits	Gower (2001)	
?. Reynolds (assistant geologist)	11	1961	Battle Harbour - Cartwright	Eade (1962)	
D. Mahaffy (assistant geologist)	9	1961	Battle Harbour - Cartwright	Eade (1962)	
K.E. Eade (project geologist)	8	1961	Battle Harbour - Cartwright	Eade (1962)	
S. Lowey (supporting geologist)	3	1999	Upper St. Paul River	Gower (2001)	
D.T. James (project geologist)	1	1999	Minipi Lake	James and Nadeau (2000)	

	U/Pb Geo	ochronology	Nd/Sm Geochronology	Rb/Sr Geochronology	K/Ar Geochronolog
	mple number ck type	Mineral abbreviations: a - allanite	Sample number Rock type	Sample number Rock type	Sample number Rock type
Inh	erited/detrital age	b - baddeleyite m - monazite	Epsilon value Depleted mantle age Age of rock (? age inferred)	Initial Sr ratio calculated from time t Age of rock	Age Mineral; Method
Em	placement age	r - rutile			
	tamorphism/closure/ bling/undefined	t - titanite x - xenotime z - zircon		(? age inferred) (* one of two or more analyses)	(* average of two or more analyses)
		c - concordant nc - near-concordant I.i lower intercept			Hbl - hornblende Musc - muscovite WR - whole rock
	PIC DATA SOURCES	u.i upper intercept			plat - plateau age tot. gas - total gas ag
	PIC DATA SOURCES	u.i upper intercept			plat - plateau age tot. gas - total gas ag
		u.i upper intercept S Samples		C; CG00-169; CG00-319A; CG00-319B; CG	tot. gas - total gas ag
Method	Reference(s)	u.i upper intercept S Samples	0-154A; CG00-154B; CG00-1540	C; CG00-169; CG00-319A; CG00-319B; CG	tot. gas - total gas ag

CFo CBr	Forteau Formation Bradore Formation (subdivided into L'Anse-au-C Crow Head and Blanc-Sablon members)
NEOPR	COTEROZOIC – EARLY CAMBRIAN Lighthouse Cove Formation
	Bateau Formation
NEOPR	NGI NSb.
NDm NGi	Double Mer Formation Gilbert arkose
N <i>Sb</i>	Sandwich Bay conglomerate
Nc	Clastic dykes
Nd Nq	Long Range dykes Quartz veins
LATE PO	IESOPROTEROZOIC (M₃ 1200 – 900 Ma) DST-GRENVILLIAN INTRUSIONS (M₃D ca. 975 -
e.g., Cha M _{3D} gp	ateau Pond granite M _{3D} gr M _{3D} ln M _{3D} mn M _{3D} mq M _{3D} mz M _{3D} yq
M _{3D} gp M _{3D} gr	Massive to weakly foliated megacrystic/porphyrit Massive to weakly foliated granite to alkali-felds
M _{3D} In M _{3D} mn	Massive to weakly foliated leucogabbro to leuco Massive to weakly foliated monzogabbro and mo
M _{3D} mq	Massive to weakly foliated quartz monzonite; ma
M _{3D} mz M _{3D} yq	Massive to weakly foliated monzonite to monzoo Massive to weakly foliated syenite, quartz syenit
M _{3D} d	Unnamed mafic dykes
	POST-GRENVILLIAN INTRUSIONS (M _{3C} ca. 985 aver Brook and Picton Pond plutons M ₃₀ In M ₃₀ mn M ₃₀ mq M ₃₀ rg M ₃₀ yq M ₃₀ d
M _{3C} gr	Weakly to moderately foliated granite to alkali-fe
M _{3C} In M _{3C} mn	Weakly to moderately foliated leucogabbro to leave weakly to moderately foliated monzogabbro to r
M _{3C} mq M _{3C} rg	Weakly to moderately foliated monzonite to quar Weakly to moderately foliated gabbro, norite and
M _{3C} yq	Weakly to moderately foliated syenite, quartz sy
M _{3C} d	L'Anse-au-Diable, York Point, Gilbert Bay mafic
M _{3B} gd	ENVILLIAN INTRUSIONS (M _{3B} ca. 1085 – 985 M Magge M _{3B} gr M _{3B} yn M _{3B} d
M _{3B} gd M _{3B} gp	Moderately to strongly foliated granodiorite to que Moderately to strongly foliated megacrystic/porp
M _{3B} gr M _{3B} yn	Moderately to strongly foliated granite to alkali-fe Moderately to strongly foliated aegerine- or neph
M _{3B} d	Unnamed mafic dykes (Makkovik Province and a
	RENVILLIAN INTRUSIONS (M _{3A} ca. 1200 – Ibert Bay pluton
M _{3A} gr M _{3A} gr	M _{3A} mn Weakly to strongly foliated granite
M _{3A} mn	Weakly to strongly foliated monzonite to monzor
	E MESOPROTEROZOIC (M ₂ 1350 – 1200 M oper North River intrusion M ₂ rg M ₂ yg M ₂ d
M ₂ gr	Weakly to strongly foliated granite and alkali-felo
M₂rg	Weakly to strongly foliated gabbronorite (in data Quebec) Weakly to strongly foliated syenite, quartz syenit
M₂yq M₂d	Mealy dykes
	MESOPROTEROZOIC (M ₁ 1600 – 1350 Ma oper Paradise River, Kyfanan Lake and 13
M₁an M₁an	M1am M1dr M1gp M1gr M1ln M1mn Massive or weakly foliated anorthosite to leucog M1mn M1
M₁am	Weakly to markedly foliated amphibolite, plus let granulite facies equivalents
M₁dr	Massive, weakly or strongly foliated diorite to an of monzodiorite or leucogabbronorite
M₁gp M₁gr	Moderately to strongly foliated megacrystic/porp Massive, weakly or strongly foliated granite to qu
M₁ln	Massive, weakly or strongly foliated leucogabbro grading into gabbronorite, locally coronitic
M₁mn M₁mq	Moderately to strongly foliated monzonorite Moderately to strongly foliated monzonite to qua
M₁mz	Moderately to strongly foliated monzonite to mon
M₁rg M₁um	Massive to strongly foliated gabbro, norite and tr and locally coronitic; includes recrystallized deriv Massive, weakly or strongly foliated ultramafic ro
M₁yq	cumulate textures Moderately to strongly foliated syenite and quart
M₁d	Mafic dykes; includes Michael Gabbro
	ALEOPROTEROZOIC AND EARLY MESO jenerally unknown, but ca. 1650 Ma and 1
RECRYS PMdr	PMgd PMgr PMgr PMmd PMmq
PMdr	Medium-grained, equigranular, recrystallized we and to leucoamphibolite
PMgd PMgp	Weakly to strongly foliated granite to granodiorit Megacrystic/porphyritic recrystallized granite to
PMgr	Medium- to coarse-grained, recrystallized weakl granite
	grante
	Medium- to coarse-grained, recrystallized leucon
PMIn PMmd PMmq PMrg	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak
PMmd PMmq PMrg PMtn	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, recrystallized, weak
PMmd PMmq PMrg	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, recrystallized, weak
PMmd PMrg PMtn PMyq PMam	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak syenite and quartz syenite
PMmd PMmq PMrg PMtn PMyq PMam SUPRAC	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, recrystallized, weak Synite and quartz synite Amphibolite; generally thought to be derived from CRUSTAL ROCKS PROVISIONALLY ASSIGNED PMsp PMsq PMsx PMvf PMvm
PMmd PMmq PMrg PMtn PMyq PMam SUPRAC PMsc Sedimer PMsc	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Syenite and quartz syenite Amphibolite; generally thought to be derived from CRUSTAL ROCKS PROVISIONALLY ASSIGNED PMsp PMsq PMss PMsx PMvf PMvm Matary protolith Calc-silicate rocks, compositionally layered, medium-
PMmd PMmq PMrg PMtn PMyq PMam SUPRAC	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak syenite and quartz syenite Amphibolite; generally thought to be derived from CRUSTAL ROCKS PROVISIONALLY ASSIGNED PMsp PMsq PMss PMsx PMvf PMvm Intary protolith
PMmd PMmq PMrg PMtn PMyq PMam SUPRAC Sedimer PMsc PMsc PMsp PMsq PMss	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak syenite and quartz syenite Amphibolite; generally thought to be derived from CRUSTAL ROCKS PROVISIONALLY ASSIGNED Matry protolith Calc-silicate rocks, compositionally layered, med Pelitic schist and gneiss Quartzite, meta-arkose, thin to thick bedded Quartz-feldspar psammitic schist and gneiss; me Coarse-grained to pegmatitic-granitic material (or
PMmd PMmq PMrg PMtn PMyq PMam SUPRAC Sedimer PMsc PMsc PMss PMss PMss	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak syenite and quartz syenite Amphibolite; generally thought to be derived from CRUSTAL ROCKS PROVISIONALLY ASSIGNED Medicate rocks, compositionally layered, med Pelitic schist and gneiss Quartzite, meta-arkose, thin to thick bedded Quartz-feldspar psammitic schist and gneiss; medicate rocks and gneiss and gneiss and gneiss; medicate rocks and gneiss; medica
PMmd PMmq PMrg PMtn PMyq PMam SUPRAC Sedimer PMsc PMsc PMss PMss PMss	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak syenite and quartz syenite Amphibolite; generally thought to be derived from CRUSTAL ROCKS PROVISIONALLY ASSIGNED PMsp PMsq PMss PMsx PMvf PMvm Matry protolith Calc-silicate rocks, compositionally layered, med Pelitic schist and gneiss Quartzite, meta-arkose, thin to thick bedded Quartz-feldspar psammitic schist and gneiss; me Coarse-grained to pegmatitic-granitic material (or psammitic gneiss and quartzite protolith Fine- to medium-grained, banded quartzofeldspar possibly indicating felsic volcaniclastic protolith
PMmd PMmq PMrg PMtn PMyq PMam SUPRAC PMsc PMsc PMsc PMss PMss PMss PMss PMss	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, gabbro, norite and t Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak syenite and quartz syenite Amphibolite; generally thought to be derived from CRUSTAL ROCKS PROVISIONALLY ASSIGNED PMsp PMsq PMss PMsx PMvf PMvm Datary protolith Calc-silicate rocks, compositionally layered, med Pelitic schist and gneiss Quartzite, meta-arkose, thin to thick bedded Quartz-feldspar psammitic schist and gneiss; me Coarse-grained to pegmatitic-granitic material (or psammitic gneiss and quartzite : protolith Fine- to medium-grained, banded quartzofeldspar possibly indicating felsic volcaniclastic protolith Fine- to medium-grained, banded amphibolite co
PMmd PMmq PMrg PMtn PMyq PMam SUPRAC PMsc PMsc PMsc PMsc PMss PMss PMss PMss	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Syenite and quartz syenite Amphibolite; generally thought to be derived from CRUSTAL ROCKS PROVISIONALLY ASSIGNED PMsp PMsg PMsp PMss PMsp PMsg PMsg PMsx Pelitic schist and gneiss Quartz-feldspar psammitic schist and gneiss; me Coarse-grained to pegmatitic-granitic material (or psammitic gneiss and quartzite sprotolith Fine- to medium-grained, banded quartzofeldspar possibly indicating felsic volcaniclastic protolith Fine- to medium-grained, banded amphibolite cor pods; interpreted as mafic volcanic rocks NERALLY POORLY CONSTRAINED $\overline{\Delta}$ Brittle deformation; cataclastic rocks, pseudotac
PMmd PMmq PMrg PMtn PMyq PMam SUPRAC PMsc PMsc PMsc PMss PMss PMss PMss PMss	Medium- to coarse-grained, recrystallized leucon Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak Medium- to coarse-grained, recrystallized, weak syenite and quartz syenite Amphibolite; generally thought to be derived from CRUSTAL ROCKS PROVISIONALLY ASSIGNED Metry protolith Calc-silicate rocks, compositionally layered, metric Pelitic schist and gneiss Quartzite, meta-arkose, thin to thick bedded Quartz-feldspar psammitic schist and gneiss; met Coarse-grained to pegmatitic-granitic material (of psammitic gneiss and quartzite protolith Fine- to medium-grained, banded quartzofeldspar possibly indicating felsic volcaniclastic protolith Fine- to medium-grained, banded amphibolite corpods; interpreted as mafic volcanic rocks
PMmq PMrg PMrg PMtn PMyq PMam SUPRAC PMsc PMsc PMsc PMsg PMsg PMsg PMsg PMsg PMsg PMsg PMsg	Medium- to coarse-grained, recrystallized leucor Medium- to coarse-grained, recrystallized, weak Syenite and quartz syenite Amphibolite; generally thought to be derived from CRUSTAL ROCKS PROVISIONALLY ASSIGNED PMsp PMsg PMsp PMss PMsp PMss PMsp PMss PMsp PMss Pelitic schist and gneiss Quartzite, meta-arkose, thin to thick bedded Quartz-feldspar psammitic schist and gneiss; me Coarse-grained to pegmatitic-granitic material (dipsammitic gneiss and quartzite spotolith Fine- to medium-grained, banded quartzofeldspar Fine- to medium-grained, banded amphibolite corpods; interpreted as mafic volcanic rocks pods; interpreted as mafic volcanic rocks NERALLY POORLY CONSTRAINED δ

MINERAL OCCURRENCE ABBREVIATIONS Amazonite Amz Gold Biotite Clay Chromium Copper Iron Feldspar Fluorite Fel Garnet Ilmenite Gnt llm Limestone Lst Magnetite Mqt Molybdenite Mo Ms Muscovite Neph Nepheline Ni Nickel Lead Paladium Pyrrhotite Platinum Pyrite Saph Sapphire Silica Dimension stone Stn Thorium Tourm Tourmaline Topaz Uranium Vanadium Zinc Zirconium Occurrence reported (?) but validity suspect 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.

CTMB0E0	
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)*	г+- гн- нн-
S-fold axis (1st generation)	2+ >
Z-fold axis (1st generation)	2+ >
Dyke (affinity unspecified)	
Fault (sense of movement unknown, dextral, sinistral, normal)	
Joint	 1
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)	- <u>-</u> <u>-</u>
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)	┝┲┤╶┲╴╌┲╴╌┲╴
Mineral occurrence	×
Geochronology location	•

SYMBOLS

Scale 1:100 000

4 6

Kilometres

2

MAP 2010-21 OPEN FILE 013B/0029 **GEOLOGY OF THE UPPER ST. AUGUSTIN RIVER AREA** (NTS SHEETS 13B/03, 04, 05 & 06) SOUTHEASTERN LABRADOR

LEGEND

DEVONIAN (?) Dd Sandwich Bay and Battle Harbour dykes	LATE PALEOPROTEROZOIC (P ₃ 1800 – 1600 Ma) LATE LABRADORIAN GRANITOID INTRUSIONS (P _{3C} 1660 – 1600 Ma) e.g., Paradise Arm intrusion and Hawke Bay intrusive suite
	Pacdr Pacga Pacgd Pacga Pacgd Pacga Pacgd Pacgd Pacgd Pacgd Pacgd Pacgd
Eradore Formation (subdivided into L'Anse-au-Clair,	 P_{3C}dr Diorite, quartz diorite and tonalite; locally grading into leucogabbronorite P_{3C}ga Alkali-feldspar granite, granite and quartz syenite forming discrete plutons
Crow Head and Blanc-Sablon members)	P _{3C} gd Granite to granodiorite forming discrete unmigmatized plutons
NCLC Lighthouse Cove Formation NCLC Bateau 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 Double Mer Formation	P_{3C}mq Quartz monzonite, including rare quartz syeniteP_{3C}mz Monzonite, including minor syenite
NGi Gilbert arkose	P _{3C} yq Syenite to quartz syenite forming discrete plutons
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 P _{3c} ag: P _{3c} am P _{3c} an P _{3c} rg P _{3c} ln P _{3c} lt P _{3c} um
Nd Long Range dykes Nq Quartz veins	P _{3C} ag Weakly to markedly foliated mafic granulite, plus leucocratic and melanocratic variants
LATE MESOPROTEROZOIC (M₃ 1200 – 900 Ma) LATE POST-GRENVILLIAN INTRUSIONS (M₃D ca. 975 – 955 Ma)	P_{3C} am Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants P_{3C} an Massive to strongly foliated anorthosite and leucogabbronorite
e.g., Chateau Pond granite 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} gr Massive to weakly foliated granite to alkali-feldspar granite 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 M_{3D}mq Massive to weakly foliated quartz monzonite; mantled feldspar textures 	cumulate textures EARLY LABRADORIAN MAFIC AND ASSOCIATED ROCKS (P _{3B} 1710 – 1660 Ma)
M _{3D} mz Massive to weakly foliated monzonite to monzodiorite	e.g., Alexis River anorthosite (assigned here although age is uncertain)
M _{3D} yq Massive to weakly foliated syenite, quartz syenite and alkali-feldspar quartz syenite	P _{3B} ag Weakly foliated to gneissic amphibolite and mafic granulite, plus leucocratic and melanocratic variants
M _{3D} d Unnamed mafic dykes EARLY POST-GRENVILLIAN INTRUSIONS (M₃c 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	$P_{3B}m$ 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 P_{3B}um Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally
 M_{3C}In Weakly to moderately foliated leucogabbro to leuconorite M_{3C}mn Weakly to moderately foliated monzogabbro to monzonorite 	EARLY LABRADORIAN GRANITOID AND ASSOCIATED ROCKS (ca. 1678 and 1671 Ma)
M _{3C} mq Weakly to moderately foliated monzonite to quartz monzonite	e.g., Neveisik Island and Red Island events P _{3B} dr P _{3B} gd P _{3B} gg P _{3B} gr P _{3B} gr P _{3B} mq P _{3B} mz P _{3B} ya P _{3B} am
 M_{3C}rg Weakly to moderately foliated gabbro, norite and troctolite 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
SYN-GRENVILLIAN INTRUSIONS (M _{3B} ca. 1085 – 985 Ma)	 P_{3B}gp Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss P_{3B}gr Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-
M _{3B} gd M _{3B} gr M _{3B} gr M _{3B} gd M _{3B} d M _{3B} gd Moderately to strongly foliated granodiorite to quartz diorite	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 P _{3B} mz Foliated to gneissic monzonite and monzodiorite, and compositionally equivalent well-banded
 M_{3B}gr Moderately to strongly foliated granite to alkali-feldspar granite M_{3B}yn Moderately to strongly foliated aegerine- or nepheline-bearing syenite 	gneiss P _{3B} ya Foliated to gneissic syenite, alkali-feldspar syenite and alkali-feldspar granite, and
M _{3B} d Unnamed mafic dykes (Makkovik Province and adjacent Grenville Province)	compositionally equivalent well-banded gneiss
PRE-GRENVILLIAN INTRUSIONS (M _{3A} ca. 1200 – 1085 Ma) e.g., Gilbert Bay pluton	P _{3B} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) 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 (M₂ 1350 – 1200 Ma) e.g., Upper North River intrusion	P _{3A} gd Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss
M_2 gr M_2 rg M_2 yq M_2 d \swarrow	 P_{3A}gp 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
 M₂gr Weakly to strongly foliated granite and alkali-feldspar granite M₂rg Weakly to strongly foliated gabbronorite (in database only - Lourdes-de-Blanc-Sablon intrusion, 	P _{3A} In Foliated to gneissic leucogabbronorite, and compositionally equivalent well-banded gneiss
	 P_{3A}In Foliated to gneissic leucogabbronorite, and compositionally equivalent well-banded gneiss P_{3A}am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes)
M ₂ rg Weakly to strongly foliated gabbronorite (in database only - Lourdes-de-Blanc-Sablon intrusion, Quebec)	P _{3A} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) PRE-LABRADORIAN SUPRACRUSTAL ROCKS (P _{3A} 1800 – 1710 Ma) (Age uncertain; certainly pre-1670 Ma, probably 1800 – 1770 Ma)
 M₂rg 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 _{3A} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) PRE-LABRADORIAN SUPRACRUSTAL ROCKS (P _{3A} 1800 – 1710 Ma)
M₂rg 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 M₂d Mealy dykes EARLY MESOPROTEROZOIC (M₁ 1600 – 1350 Ma) e.g., Upper Paradise River, Kyfanan Lake and 13B/12 intrusions, and Michael Gabbro M₁an M₁dr M₁an M₁dr M₁gp M₁dr M₁dr M₁dr	P_{3A} amAmphibolite skialiths, lenses and layers (mainly remnants of former dykes)PRE-LABRADORIAN SUPRACRUSTAL ROCKS (P_{3A} 1800 – 1710 Ma) (Age uncertain; certainly pre-1670 Ma, probably 1800 – 1770 Ma) P_{3A} sc P_{3A} sp P_{3A} sq P_{3A} sx P_{3A} vf P_{3A} vmSedimentary protolith P_{3A} scCalc-silicate rocks, compositionally layered, medium grained
M₂rg 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 M₂d Mealy dykes EARLY MESOPROTEROZOIC (M₁ 1600 – 1350 Ma) e.g., Upper Paradise River, Kyfanan Lake and 13B/12 intrusions, and Michael Gabbro M₁an M₁dr M₁an M₁dr M₁an Massive or weakly foliated anorthosite to leucogabbronorite, indistinctly layered in places M₁am Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants;	P _{3A} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) PRE-LABRADORIAN SUPRACRUSTAL ROCKS (P _{3A} 1800 – 1710 Ma) (Age uncertain; certainly pre-1670 Ma, probably 1800 – 1770 Ma) P _{3A} sc P _{3A} sq P _{3A} ss P _{3A} vf P _{3A} vm Sedimentary protolith
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M₂rg 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 M₂d Mealy dykes EARLY MESOPROTEROZOIC (M₁ 1600 – 1350 Ma) e.g., Upper Paradise River, Kyfanan Lake and 13B/12 intrusions, and Michael Gabbro M₁an M₁dr M₁an M₁dr M₁an M₂dy foliated anorthosite to leucogabbronorite, indistinctly layered in places M₁am Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants; granulite facies equivalents	P _{3A} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) PRE-LABRADORIAN SUPRACRUSTAL ROCKS (P _{3A} 1800 – 1710 Ma) (Age uncertain; certainly pre-1670 Ma, probably 1800 – 1770 Ma) Image: P_3ASP_P_3ASP_P_3ASP_P_3ASR_P_3ASR_P_3AVF_P_3AVE Sedimentary protolith P_3ASC_Calc-silicate rocks, compositionally layered, medium grained P_3ASP_Fine- to medium-grained pelitic schist and gneiss P_3ASq_Quartzite, meta-arkose, thin to thick bedded P_3ASS_Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering P_3ASX_Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering Volcanic protolith
M₂rg 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 M₂d Mealy dykes EARLY MESOPROTEROZOIC (M₁ 1600 – 1350 Ma) e.g., Upper Paradise River, Kyfanan Lake and 13B/12 intrusions, and Michael Gabbro M₁an M₁ar M₁dr M₁an M₁dr M₁gp M₁an M₄dr M₁gp M₁an Massive or weakly foliated anorthosite to leucogabbronorite, indistinctly layered in places M₁an Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants; granulite facies equivalents M₁dr Massive, weakly or strongly foliated diorite to amphibolite, may be metamorphic derivative of monzodiorite or leucogabbronorite M₁gp Moderately to strongly foliated megacrystic/porphyritic granitoid rocks M₁gr Massive, weakly or strongly foliated granite to quartz monzonite	P _{3A} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) PRE-LABRADORIAN SUPRACRUSTAL ROCKS (P _{3A} 1800 – 1710 Ma) (Age uncertain; certainly pre-1670 Ma, probably 1800 – 1770 Ma) P _{3A} sc P _{3A} sq P _{3A} sc P _{3A} sq P _{3A} sc Calc-silicate rocks, compositionally layered, medium grained 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 P _{3A} sx Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering Volcanic protolith P _{3A} vf P _{3A} sy Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith
M₂rg 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 M₂d Mealy dykes EARLY MESOPROTEROZOIC (M₁ 1600 – 1350 Ma) e.g., Upper Paradise River, Kyfanan Lake and 13B/12 intrusions, and Michael Gabbro M₁an M₁dr M₂gp M₁an M₁dr M₁gp M₁an M₄dr M₂dr M₁an Magp M₄gr M₁an Massive or weakly foliated anorthosite to leucogabbronorite, indistinctly layered in places M₁an Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants; granulite facies equivalents M₁dr Massive, weakly or strongly foliated megacrystic/porphyritic granitoid rocks M₁gp Moderately to strongly foliated granite to quartz monzonite M₁ln Massive, weakly or strongly foliated leucogabbronorite and anorthositic gabbro, locally grading into gabbronorite, locally coronitic	P _{3A} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) PRE-LABRADORIAN SUPRACRUSTAL ROCKS (P_{3A} 1800 – 1710 Ma) (Age uncertain; certainly pre-1670 Ma, probably 1800 – 1770 Ma) P _{3A} Sc P _{3A} Sq P _{3A} Sx P _{3A} Vf P _{3A} Vf Sedimentary protolith P _{3A} Sc Calc-silicate rocks, compositionally layered, medium grained P _{3A} Sp Fine- to medium-grained pelitic schist and gneiss P _{3A} Ss Quartzite, meta-arkose, thin to thick bedded P _{3A} Ss Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering P _{3A} Sx Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering Volcanic protolith P _{3A} Vf P _{3A} Vf Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcancelastic protolith P _{3A} Vm Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks
M₂rg 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 M₂d Mealy dykes EARLY MESOPROTEROZOIC (M₁ 1600 – 1350 Ma) e.g., Upper Paradise River, Kyfanan Lake and 13B/12 intrusions, and Michael Gabbro M₁an M₁ar M₁dr M₂gp M₁an M₁dr M₁gp M₁n M₁mq M₁rg M₁dr M₂d M₁an Massive or weakly foliated anorthosite to leucogabbronorite, indistinctly layered in places M₁an Weakly to markedly foliated anorthosite to leucogabbronorite, indistinctly layered in places M₁an Weakly to strongly foliated amphibolite, plus leucocratic and melanocratic variants; granulite facies equivalents M₁dr Massive, weakly or strongly foliated diorite to amphibolite, may be metamorphic derivative of monzodiorite or leucogabbronorite M₁gp Moderately to strongly foliated megacrystic/porphyritic granitoid rocks M₁gr Massive, weakly or strongly foliated granite to quartz monzonite M₁n Massive, locally grading into gabbron, locally grading into gabbronorite, locally coronitic	P _{3A} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) PRE-LABRADORIAN SUPRACRUSTAL ROCKS (P_{3A} 1800 – 1710 Ma) (Age uncertain; certainly pre-1670 Ma, probably 1800 – 1770 Ma) P _{3A} Sc P _{3A} Sg P _{3A} Sc P _{3A} Sg Sedimentary protolith P _{3A} Sg Calc-silicate rocks, compositionally layered, medium grained P _{3A} Sg Fine- to medium-grained pelitic schist and gneiss P _{3A} Sg Quartzite, meta-arkose, thin to thick bedded P _{3A} Sg Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering P _{3A} Sg Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering P _{3A} Sg Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering P _{3A} Sg Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering P _{3A} Sg Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering P _{3A} Sg Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering Volcanic protolith P _{3A} Vf P _{3A} Vf Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith P _{3A} Vm Fine- to medium
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s, pseudotacholite

p Pegmatite q Quartz vein

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).