



A preliminary coloured version of this map appeared page-size, together with a report based on data collected during the 1995 field season (Gower and van Nostrand, 1996). The present map also incorporates field data recorded by Eade (1962) and Emslie (1976), making use of original field notes recorded by K.E. Eade and assistants and R.F. Emslie. The map is augmented by follow-up examination of stained slabs, petrographic thin sections, and whole-rock geochemical analyses. U-Pb geochronological results (Emslie and Hunt, 1990; Gower et al., 2008b), and Nd-Sm isotopic data (R.A. Creaser, unpublished - see digital database) are also shown. Localities designated as mineral occurrences are based on observations made during the 1995 field season (see Mineral Occurrence Table; current to 2009). Since the preliminary report, there has been minor 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. 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 Southeast Mealy Mountains area (NTS sheets 13G/01, 02, 07 and 08), southeastern Labrador. Geological Survey, Mines Branch, Department of Natural Resources, Government of Newfoundland and Labrador, Map 2010-14,

Open File 013G/0057. Geological cartography by T. Paltanavage, Cartographic Unit, Geological Survey, Department of Natural Resources. Digital NTS base maps (NTS 13G/01, 02, 07 and 08) 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° 40' 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.

originality and correctness of data and/or products.

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 2010-14 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. DISCLAIMER: The Geological Survey, a division of the Department of Natural Resources (the "authors and publishers"), retain the sole right to the original data and information found in any product produced. The authors and publishers assume no legal liability or responsibility for any alterations, changes or misrepresentations made by third parties with respect to these products or the original data. Furthermore, the Geological Survey assumes no liability with respect to digital reproductions or copies of

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SOUTHEAST MEALY MOUNTAINS REFERENCES

Eade, K.E.

- Emslie, R.F. 1976: Mealy Mountains Complex, Grenville Province, southern Labrador. In Report of Activities, Part A. Geological Survey of
- Canada, Paper 76-1A, pages 165-170. Emslie, R.F. and Hunt, P.A.
- Gower, C.F., Kamo, S. and Krogh, T.E.
- 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. Gower, C.F. and van Nostrand, T.
- 1996: Geology of the southeast Mealy Mountains region, Grenville Province, southeast Labrador. In Current Research. Newfoundland Department of Mines and Energy, Geological Survey Branch, Report 96-1, pages 55-71.

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

013G/01/Mic001	Ms	Indication	425841	5893363	GSNL (field note
013G/01/Mic002	Ms	Indication	421905	5896524	GSNL (field note
013G/01/Pyr001	Pyr	Indication	421017	5890825	GSNL (field note
013G/01/Pyr002	Pyr	Indication	423969	5891291	GSNL (field note
013G/02/Pyr001	Pyr, Mgt	Indication	394061	5900492	GSNL (field note
013G/02/Pyr002	Pyr	Indication	396269	5896756	GSNL (field note
013G/07/Fe 001	Mgt	Indication	376325	5905547	GSNL (field note
013G/07/Fe 002	Mgt	Indication	380328	5904774	GSNL (field note
013G/07/Fe 003	Mgt	Indication	380301	5925790	GSNL (field note
013G/07/Pyr001	Pyr	Indication	389688	5911086	GSNL (field note
013G/07/Pyr002	Pyr	Indication	390918	5910556	GSNL (field note



GEOLOGICAL DATA SOURCES

Mapping references

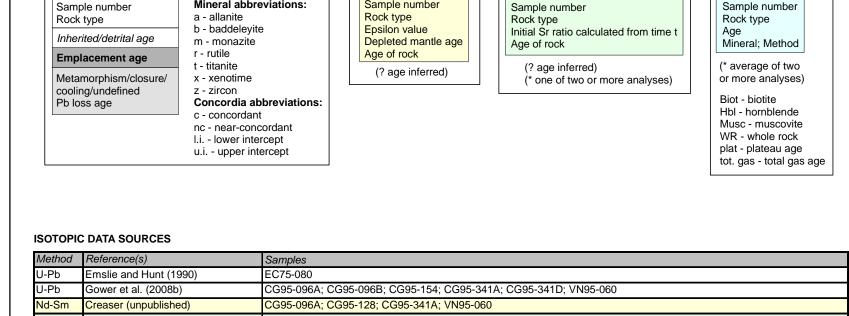
Stations Year(s) data collected Project name

1962: Geology, Battle Harbour - Cartwright, coast of Labrador, Newfoundland. Geological Survey of Canada, Map 22-1962. 1990: Ages and petrogenetic significance of igneous mangerite-charnockite suites associated with massif anorthosites, Grenville Province. Journal of Geology, Volume 98, pages 213-231.

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

s; CG95-014 otes; VN95-040) otes; VN95-008) otes; VN95-016) otes; CG95-172) otes; CG95-287) otes; CG95-178) otes; CG95-184) otes; CG95-248) otes; CG95-161) otes; CG95-163)

C.F. Gower (project geologist)	343 1995; 2009	Southeast Mealy I	Mtns & other visit	Gower and van Nostra	nd (1996); additional data
T. van Nostrand (assistant geologist)	209 1995	Southeast Mealy I	Mountains	Gower and van Nostra	nd (1996)
G. Bugden / A. Churchill (assistant geologist	s) 24 1995	Southeast Mealy I	Mountains	Gower and van Nostra	nd (1996)
.F. Emslie (project geologist)	18 1975	Mealy Mountains		Emslie (1976)	
. Reynolds (assistant geologist)	17 1961	Battle Harbour - C	Cartwright	Eade (1962)	
. Mahaffy (assistant geologist)	12 1961	Battle Harbour - C	Cartwright	Eade (1962)	
.E. Eade (project geologist)	8 1961	Battle Harbour - C	Cartwright	Eade (1962)	
I. Noel (assistant geologist)	3 1984	Paradise River		Gower and van Nostra	nd (1996)
A.G. Nunn (project geologist)	1 1995	Kenemich River		Additional data	
		ISOTOPIC DATA			
U/Pb Geoc	hronology	Nd/Sm Geochronology	Rb/Sr Geoc	hronology	K/Ar Geochronology
Sample number Rock type	Mineral abbreviations: a - allanite b - baddelevite	Sample number Rock type	Sample number Rock type		Sample number Rock type
Inherited/detrital age	m - monazite	Epsilon value	Initial Sr ratio calcu	ulated from time t	Age Minoroly Mothod



MINERAL OCCURRENCE ABBREVIATIONS				
Amz Au Bt Cly Cr Fel Fl Gnt Ilm Lst Mos Ni Pb Pd Pt Psaph Thourm Tpz U V Zn Zr (?)	Amazonite Gold Biotite Clay Chromium Copper Iron Feldspar Fluorite Garnet Ilmenite Limestone Magnetite Molybdenite Muscovite Nepheline Nickel Lead Paladium Pyrrhotite Platinum Pyrite Sapphire Silica Dimension stone Thorium 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.

Scale 1:100 000 2 4 6

8 Kilometres

SYMBOLS	
Geological contact	
Normal fault	
Strike-slip fault	
Thrust fault	
Normal fault reactivating thrust	
Fold axial plane (1st, 2nd, 3rd generation)*	
S-fold axis (1st generation)	
Z-fold axis (1st generation) ₂+→	
Dyke (affinity unspecified)	
Fault (sense of movement unknown, dextral, sinistral, normal) المناحب المناه	
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)	
Vein	
Shear zone (sense of movement unknown, dextral, sinistral, reverse)	
Mineral occurrence ×	
Geochronology location	

	LEG	GEND
Dd 🏏	NIAN (?) 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 P _{3c} dr P _{3c} ga P _{3c} gd P _{3c} gg P _{3c} gr P _{3c} m P _{3c} mq P _{3c} mz P _{3c} yq P _{3c} d
CFo-	Forteau Formation	P _{3C} dr Diorite, quartz diorite and tonalite; locally grading into leucogabbronorite
CBr	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 plutonsP_{3c}gd Granite to granodiorite forming discrete unmigmatized plutons
NEOPF NCLc	ROTEROZOIC – EARLY CAMBRIAN Lighthouse Cove Formation	P _{3c} gp Megacrystic/porphyritic granite to granodiorite
NC <i>Ba</i>	Bateau Formation	P _{3c} gr Granite and minor alkali-feldspar granite P _{3c} mn Monzonorite and monzogabbro
NEOPF NDm	ROTEROZOIC	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 NSb	Gilbert arkose Sandwich Bay conglomerate	$P_{3C}d$ Unnamed mafic dykes
Nc	Nd Y Nq	LATE LABRADORIAN ANORTHOSITIC AND MAFIC INTRUSIONS (P _{3c} 1660 – 1600 Ma)
Nc Nd	Clastic dykes	e.g., White Bear Arm complex and Sand Hill Big Pond intrusion P _{3c} ag P _{3c} an P _{3c} rg P _{3c} ln P _{3c} um
Nq	Quartz veins	P _{3C} ag Weakly to markedly foliated mafic granulite, plus leucocratic and melanocratic variants
LATE P	/ESOPROTEROZOIC (M₃ 1200 – 900 Ma) OST-GRENVILLIAN INTRUSIONS (M₃D ca. 975 – 955 Ma) ateau Pond granite	P_{3C}am Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variantsP_{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 M _{3D} gr	Massive to weakly foliated megacrystic/porphyritic granite to quartz monzonite 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 M _{3D} mq	Massive to weakly foliated monzogabbro and monzonorite Massive to weakly foliated guartz monzonite; mantled feldspar textures	cumulate textures EARLY LABRADORIAN MAFIC AND ASSOCIATED ROCKS (Рзв 1710 – 1660 Ма)
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 EARLY	Unnamed mafic dykes 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
	aver Brook and Picton Pond plutons M_{3c} In M_{3c} mn M_{3c} mq M_{3c} rg M_{3c} yq M_{3c} d \swarrow	$P_{3B}mn$ 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 P_{3B}um Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally
M _{3C} In M _{3C} mn	Weakly to moderately foliated leucogabbro to leuconorite Weakly to moderately foliated monzogabbro to monzonorite	 P_{3B}um Massive, weakly or strongly foliated ultramatic rocks, commonly layered and locally showing cumulate textures 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 P3Bdr P3Bgd P3Bgr P3Bmq P3Bmz P3Bya P3Bam
M _{3C} rg M _{3C} yq	Weakly to moderately foliated gabbro, norite and troctolite 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
	RENVILLIAN 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} gd	Maggi Maggr Maggr Maggi	banded gneiss P _{3B} mq Foliated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally
M _{3B} gp M _{3B} gr	Moderately to strongly foliated megacrystic/porphyritic granodiorite to quartz diorite Moderately to strongly foliated granite to alkali-feldspar granite	P _{3B} mz Foliated to gneissic monzonite and monzodiorite, and compositionally equivalent well-banded
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 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)
	RENVILLIAN INTRUSIONS (M _{3A} ca. 1200 – 1085 Ma) ilbert Bay pluton	PRE-LABRADORIAN GRANITOID ROCKS (P _{3A} 1800 – 1710 Ma)
M _{3A} gr M _{3A} gr	M _{3A} mn Weakly to strongly foliated granite	P3Agg P3Agr P3Agg P3Agr P3Aln P3Agm P3Agg Mafic granulite skialiths, lenses and layers
M _{3A} mn	Weakly to strongly foliated monzonite to monzonorite	P _{3A} dr Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss
e.g., U	E MESOPROTEROZOIC (M₂ 1350 – 1200 Ma) pper North River intrusion	 P_{3A}gd Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss P_{3A}gp Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss
M ₂ gr M ₂ gr	M ₂ rg M ₂ yq M ₂ d 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) PRE-LABRADORIAN SUPRACRUSTAL ROCKS (P _{3A} 1800 – 1710 Ma)
M ₂ d	Mealy dykes MESOPROTEROZOIC (M ₁ 1600 – 1350 Ma)	(Age uncertain; certainly pre-1670 Ma, probably 1800 – 1770 Ma) P _{3A} SC P _{3A} SP P _{3A} SQ P _{3A} SS P _{3A} SX P _{3A} Vf P _{3A} Vf
e.g., Up	pper Paradise River, Kyfanan Lake and 13B/12 intrusions, and Michael Gabbro M₁am M₁dr M₁gp M₁gr M₁ln M₁mn M₁mq M₁mż M₁rg M₁um M₁yq M₁d ✓	Sedimentary protolith P _{3A} sc Calc-silicate rocks, compositionally layered, medium grained
M₁an	Massive or weakly foliated anorthosite to leucogabbronorite, indistinctly layered in places	P _{3A} sp Fine- to medium-grained pelitic schist and gneiss
M₁am	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
M₁dr	Massive, weakly or strongly foliated diorite to amphibolite, may be metamorphic derivative of monzodiorite or leucogabbronorite	P _{3A} sx Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering
M₁gp M₁gr	Moderately to strongly foliated megacrystic/porphyritic granitoid rocks Massive, weakly or strongly foliated granite to quartz monzonite	Volcanic protolith P _{3A} vf Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith
M₁ln	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 M₁ma	Moderately to strongly foliated monzonorite Moderately to strongly foliated monzonite to quartz monzonite	MID PALEOPROTEROZOIC (P2 2100 – 1800 Ma) LATE MID PALEOPROTEROZOIC (P2c 1900 – 1800 Ma)
M ₁ mz	Moderately to strongly foliated monzonite to monzodiorite	Granitoid and related intrusive rocks P2cdr P2cga P2cgd P2cgg P2cgr P2cgr P2cmq P2cya P2cyq
M₁rg	Massive to strongly foliated gabbro, norite and troctolite, commonly layered; subophitic and locally coronitic; includes recrystallized derivatives retaining igneous textures	$P_{2C}dr$ Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss
M₁um	Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally showing cumulate textures	P_{2c}ga Alkali-feldspar granite, granite and quartz syeniteP_{2c}gd Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss
M₁yq	Moderately to strongly foliated syenite and quartz syenite	P _{2c} gp Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss
M₁d	Mafic dykes; includes Michael Gabbro	P _{2C} gr Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss
(Ages g	ALEOPROTEROZOIC AND EARLY MESOPROTEROZOIC (PM 1800 – 1350 Ma) generally unknown, but ca. 1650 Ma and 1500 – 1470 Ma rocks identified) STALLIZED IGNEOUS ROCKS	P _{2C} mq Foliated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally equivalent well-banded gneiss
PMdr	PMgd PMgr PMgr PMmd PMmd PMrg PMrg PMtn PMyq PMam	 P_{2C}mz Foliated to gneissic monzonite to monzodiorite, and compositionally equivalent well-banded gneiss P_{2C}ya Foliated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded
PMdr	Medium-grained, equigranular, recrystallized weakly to strongly foliated diorite, quartz diorite and to leucoamphibolite	gneiss P _{2C} yq Syenite to quartz syenite
PMgd PMgp	Weakly to strongly foliated granite to granodiorite Megacrystic/porphyritic recrystallized granite to quartz monzonite	Mafic and associated intrusive rocks
PMgr	Medium- to coarse-grained, recrystallized weakly to strongly foliated granite and alkali-feldspar granite	P _{2C} am P _{2C} rg P _{2C} d P _{2C} am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes)
PMIn PMmd	Medium- to coarse-grained, recrystallized leuconorite, leucogabbro 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 PMtn	Medium- to coarse-grained, gabbro, norite and troctolite Medium- to coarse-grained, recrystallized, weakly to strongly foliated tonalite to granodiorite	Sedimentary protolith P2csc P2csp P2csq P2css
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
PMam	Amphibolite; generally thought to be derived from mafic dykes	P_{2C}so Conglomerate and agglomerate, partially of volcanic originP_{2C}sp Fine- to medium-grained pelitic schist and gneiss
	CRUSTAL ROCKS PROVISIONALLY ASSIGNED AS PITTS HARBOUR GROUP	P _{2C} sq Quartzite, meta-arkose, thin to thick bedded
PMsc Sedime	PMsp PMss PMsx PMvf PMvm ntary protolith	P _{2C} ss Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering Volcanic protolith
PMsc PMsp	Calc-silicate rocks, compositionally layered, medium grained Pelitic schist and gneiss	P _{2C} vb P _{2C} vf P _{2C} vi P _{2C} vm P _{2C} vp
PMsq	Quartzite, meta-arkose, thin to thick bedded	 P_{2C}vb Volcanic breccia, angular clasts, grading into agglomerate P_{2C}vf Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith
PMss PMsx	Quartz-feldspar psammitic schist and gneiss; medium grained Coarse-grained to pegmatitic-granitic material (diatexite), characteristically associated with	indicating felsic volcanoclastic protolith P _{2C} vi Intermediate volcanic rocks
	psammitic gneiss and quartzite	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	
β		NOTES
β δ	Brittle deformation; cataclastic rocks, pseudotacholite Ductile deformation; mylonite, straight gneiss	1. Legend is common to all maps (Map 2010-01 to Map 2010-25), but all units do not appear on every map.
AGE GE		 Uncoloured units do not appear as polygons on maps, but are in unit-designator strings in database.
f	k p q	
f	k p q Aplite, microgranite (felsite) Carbonate vein	 Some mafic dykes also shown as polygons (especially where orientation is unknown).

MAP 2010-14 OPEN FILE 013G/0057 GEOLOGY OF THE SOUTHEAST MEALY MOUNTAINS AREA (NTS SHEETS 13G/01, 02, 07 & 08) SOUTHEASTERN LABRADOR

q Quartz vein