

(1985), making use of original field notes recorded by I.M. Stevenson and assistants, and thesis material of J.V. Owen. Gower's (1981) map and report embedded follow-up examination of stained slabs and petrographic thin sections. U-Pb geochronological results (Krogh et al., 2002), Nd-Sm isotopic data (Kerr and Fryer, 1994), Rb-Sr isotopic data (Brooks, 1982; Owen, 1985; Owen et al., 1988), K-Ar isotopic data (Grasty et al., 1969; Wanless et al., 1972; Owen et al., 1988), and paleomagnetic sites (Park and Gower, 1996) are shown. Localities designated as mineral occurrences are based mostly on observations made during the 1979 field season, but include earlier reported discoveries (see Mineral Occurrence Table; current to 2009).

A map of the present area was published uncoloured with an accompanying report (Gower, 1981), which superseded

an article by Gower (1980). Most of the present map is based on investigations carried out in 1979, but additional field

data were collected in subsequent visits. The map incorporates field data collected by Stevenson (1970) and Owen

Since the previous map was published, interpretation for the region has evolved, so there are some differences between the current and previous versions of this map, particularly in the southeast part of the map, where the mapping of Owen (1985) has been incorporated. 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, especially away from shorelines, 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 may be very complex, and 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

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representative of its source material. Unit designator and polygon labels applied are based on an awareness of such

factors.

Digital NTS base maps (NTS 13I/11, 12 and 13) used for this map are available from Surveys and Mapping Branch, Natural Resources Canada. Magnetic declination at 54° 30' N, 58° 00' W at the start of 2010 was 23° 33' W. Elevations are in feet above sea level. Contour interval is 60 feet (131/11) or 50 feet (131/12 and 13). UTM (Universal Transverse Mercator) Grid Zone 21, NAD (North American Datum) 27.

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 2010-04 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.

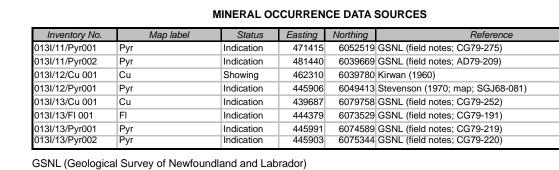
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BYRON BAY REFERENCES

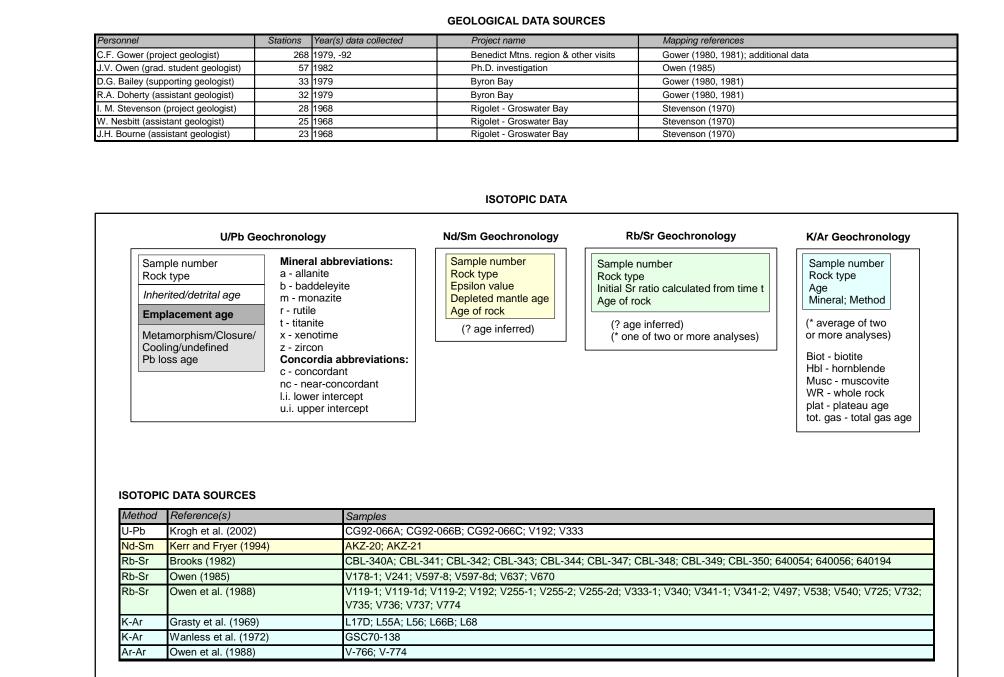
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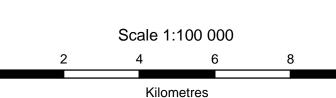
Paper 69-48, 24 pages. Wanless, R.K., Stevens, R.D., Lachance G.R. and Delabio, R.N. 1972: Age determinations and geological studies, K-Ar isotopic ages, Report 10. Geological Survey of Canada, Paper 71-2, 96 pages.











SYMBOLS



MINERAL OCCURRENCE

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- гн+
S-fold axis (1st generation)	< +2
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	
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)	┝┳┤╶┳ݢ╶┳╕ᡪ┳╕
Mineral occurrence	×
Geochronology location	•

DEVON	IAN (?) Sandwich Bay and Battle Harbour dykes
	CAMBRIAN
CEo CBr	Forteau Formation Bradore Formation (subdivided into L'Anse-au-Clair, Crow Head and Blanc-Sablon members)
	OTEROZOIC – EARLY CAMBRIAN Lighthouse Cove Formation
NCLc NCBa	Bateau Formation
NEOPR	OTEROZOIC NG: NS6 Double Mer Formation
NGi NSb	Gilbert arkose Sandwich Bay conglomerate
Nc	Md Mq
Nc Nd	Clastic dykes Long Range dykes
Nq LATE M	Quartz veins IESOPROTEROZOIC (M ₃ 1200 – 900 Ma)
	DST-GRENVILLIAN INTRUSIONS (M _{3D} ca. 975 – 955 Ma) ateau Pond granite M _{3D} gr M _{3D} In M _{3D} mn M _{3D} mq M _{3D} mz M _{3D} yq M _{3D} d
M _{3D} gp	Massive to weakly foliated megacrystic/porphyritic granite to quartz monz
M _{3D} gr M _{3D} In	Massive to weakly foliated granite to alkali-feldspar granite Massive to weakly foliated leucogabbro to leuconorite
M _{3D} mn M _{3D} mq	Massive to weakly foliated monzogabbro and monzonorite Massive to weakly foliated quartz monzonite; mantled feldspar textures
M _{3D} mz M _{3D} yq	Massive to weakly foliated monzonite to monzodiorite Massive to weakly foliated syenite, quartz syenite and alkali-feldspar quart
M _{3D} d	Unnamed mafic dykes
	POST-GRENVILLIAN INTRUSIONS (M_{3C} ca. 985 – 975 Ma) aver Brook and Picton Pond plutons
M _{3C} gr M _{3C} gr	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
M _{3C} In M _{3C} mn	Weakly to moderately foliated leucogabbro to leuconorite Weakly to moderately foliated monzogabbro to monzonorite
M _{3C} mq	Weakly to moderately foliated monzonite to quartz monzonite
M _{3C} rg M _{3C} yq	Weakly to moderately foliated gabbro, norite and troctolite Weakly to moderately foliated syenite, quartz syenite and alkali-feldspars
M _{3C} d	L'Anse-au-Diable, York Point, Gilbert Bay mafic dykes
M _{3B} gd	ENVILLIAN INTRUSIONS (M _{3B} ca. 1085 – 985 Ma) M_{3B} M_{3B} M_{3B} M_{3B} M_{3B} M_{3B} M_{3B}
M _{3B} gd M _{3B} gp	Moderately to strongly foliated granodiorite to quartz diorite Moderately to strongly foliated megacrystic/porphyritic granodiorite to qua
M _{3B} gr M _{3B} yn	Moderately to strongly foliated granite to alkali-feldspar granite Moderately to strongly foliated aegerine- or nepheline-bearing syenite
M _{3B} d	Unnamed mafic dykes (Makkovik Province and adjacent Grenville Province
e.g., Gil	RENVILLIAN INTRUSIONS (M _{3A} ca. 1200 – 1085 Ma) Ibert Bay pluton
M _{3A} gr M _{3A} gr	M _{3A} mn Weakly to strongly foliated granite
	Weakly to strongly foliated monzonite to monzonorite MESOPROTEROZOIC (M ₂ 1350 – 1200 Ma)
e.g., Up M ₂ gr	M2rg M2rg M2d
M₂gr M₂rg	Weakly to strongly foliated granite and alkali-feldspar granite Weakly to strongly foliated gabbronorite (in database only - Lourdes-de-B Quebec)
M ₂ yq	Weakly to strongly foliated syenite, quartz syenite and alkali-feldspar syen
M ₂ d	Mealy dykes MESOPROTEROZOIC (M₁ 1600 – 1350 Ma)
	per Paradise River, Kyfanan Lake and 13B/12 intrusions, and 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 I
M₁an M₁am	Massive or weakly foliated anorthosite to leucogabbronorite, indistinctly la Weakly to markedly foliated amphibolite, plus leucocratic and melanocrat
M ₁ dr	granulite facies equivalents Massive, weakly or strongly foliated diorite to amphibolite, may be metam
M₁gp	of monzodiorite or leucogabbronorite Moderately to strongly foliated megacrystic/porphyritic granitoid rocks
M₁gr M₁ln	Massive, weakly or strongly foliated granite to quartz monzonite Massive, weakly or strongly foliated leucogabbronorite and anorthositic granite
M₁mn	grading into gabbronorite, locally coronitic Moderately to strongly foliated monzonorite
M₁mq M₁mz	Moderately to strongly foliated monzonite to quartz monzonite Moderately to strongly foliated monzonite to monzodiorite
M₁rg	Massive to strongly foliated gabbro, norite and troctolite, commonly layer and locally coronitic; includes recrystallized derivatives retaining igneous
M₁um	Massive, weakly or strongly foliated ultramafic rocks, commonly layered a cumulate textures
M₁yq M₁d	Moderately to strongly foliated syenite and quartz syenite Mafic dykes; includes Michael Gabbro
	ALEOPROTEROZOIC AND EARLY MESOPROTEROZOIC (PM ⁻ enerally unknown, but ca. 1650 Ma and 1500 – 1470 Ma rocks
	TALLIZED IGNEOUS ROCKS PMgd PMgr PMgr PMmd PMmq PMrg PMtn PMyq
PMdr	Medium-grained, equigranular, recrystallized weakly to strongly foliated d and to leucoamphibolite
PMgd PMgp	Weakly to strongly foliated granite to granodiorite Megacrystic/porphyritic recrystallized granite to quartz monzonite
PMgr	Medium- to coarse-grained, recrystallized weakly to strongly foliated gran granite
PMIn PMmd	Medium- to coarse-grained, recrystallized leuconorite, leucogabbro Medium- to coarse-grained, recrystallized, weakly to strongly foliated, mo
PMmq PMrg	Medium- to coarse-grained, recrystallized, weakly to strongly foliated qua Medium- to coarse-grained, gabbro, norite and troctolite
PMtn	Medium- to coarse-grained, recrystallized, weakly to strongly foliated tona
PMyq	Medium- to coarse-grained, recrystallized, weakly to strongly foliated systematic and quartz syenite
PMam	Amphibolite; generally thought to be derived from mafic dykes
PMsc	PMsp PMsq PMss PMvf PMvm
Sedimen PMsc PMsp	ntary protolith Calc-silicate rocks, compositionally layered, medium grained Pelitic schist and gneiss
PMsq	Quartzite, meta-arkose, thin to thick bedded
PMss PMsx	Quartz-feldspar psammitic schist and gneiss; medium grained Coarse-grained to pegmatitic-granitic material (diatexite), characteristicall psammitic gneiss and guartzite
Volcanic PMvf	 protolith Fine- to medium-grained, banded quartzofeldspathic rocks; locally having
PMvf PMvm	possibly indicating felsic volcaniclastic protolith Fine- to medium-grained, banded amphibolite containing quartz-feldspar pods; interpreted as mafic volcanic rocks
AGE GE β	NERALLY POORLY CONSTRAINED
β	Brittle deformation; cataclastic rocks, pseudotacholite Ductile deformation; mylonite, straight gneiss

β	δ				
β	Brittle deformation; cataclastic rocks, pseudotacho				
δ	Ductile deformation; mylonite, straight gneiss				
AGE GENERALLY POORLY CONSTRAINED					
f	k	р	q		

k Carbonate vein p Pegmatite

q Quartz vein

MAP 2010-04 OPEN FILE 013I/0027 **GEOLOGY OF THE BYRON BAY AREA** (NTS SHEETS 13I/11, 12 & 13) EASTERN LABRADOR

LEGEND

	LATE L	PALEOPROTEROZOIC (P ₃ 1800 – 1600 Ma) ABRADORIAN GRANITOID INTRUSIONS (P ₃ c 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
	P _{3C} dr P _{3C} ga	Diorite, quartz diorite and tonalite; locally grading into leucogabbronorite Alkali-feldspar granite, granite and quartz syenite forming discrete plutons
	P _{3C} gd	Granite to granodiorite forming discrete unmigmatized plutons
	P _{3C} gp	Megacrystic/porphyritic granite to granodiorite
	P _{3C} gr P _{3C} mn	Granite and minor alkali-feldspar granite Monzonorite and monzogabbro
	P _{3C} mq	Quartz monzonite, including rare quartz syenite
	P _{3C} mz P _{3C} yq	Monzonite, including minor syenite Syenite to quartz syenite forming discrete plutons
	P _{3C} d	Unnamed mafic dykes
	LATE L	ABRADORIAN ANORTHOSITIC AND MAFIC INTRUSIONS (P3c 1660 – 1600 Ma)
	-	ite Bear Arm complex and Sand Hill Big Pond intrusion P _{3C} am P _{3C} rg P _{3c} ln P _{3c} lt P _{3c} um
	P _{3C} 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
	P _{3C} rg	Massive to strongly foliated gabbro and norite, commonly layered; subophitic and locally coronitic
tz monzonite	P _{3C} In	Primary textured to recrystallized leucogabbronorite and leucogabbro; coronitic locally
	P _{3C} lt P _{3C} um	Primary textured to recrystallized leucotroctolite Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally showing
	EARLY	cumulate textures
tures		xis River anorthosite (assigned here although age is uncertain) P _{3B} an P _{3B} In P _{3B} mn P _{3B} rg P _{3B} um
par quartz syenite	P _{3B} ag	Weakly foliated to gneissic amphibolite and mafic granulite, plus leucocratic and melanocratic variants
	P _{3B} an	Weakly foliated to gneissic anorthosite and leucogabbronorite
	P _{3B} In Bump	Weakly foliated to gneissic leucogabbronorite and leucogabbro; coronitic locally Weakly foliated to gneissic monzonorite and monzogabbro
	P _{3B} mn P _{3B} rg	Weakly foliated to gneissic monzonome and monzogabbro
	P _{3B} um	Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally showing cumulate textures
		LABRADORIAN GRANITOID AND ASSOCIATED ROCKS (ca. 1678 and 1671 Ma) veisik Island and Red Island events
	P _{3B} dr	$P_{3B}gd$ $P_{3B}gg$ $P_{3B}gg$ $P_{3B}mq$ $P_{3B}mz$ $P_{3B}ya$ $P_{3B}am$
ldspar syenite	P _{3B} dr	Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss; in part derived from leucogabbronorite
	P _{3B} gd P _{3B} gp	Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss
	P _{3B} gr	Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well- banded gneiss
	P _{3B} mq	Foliated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally equivalent well-banded gneiss
e to quartz diorite	P _{3B} mz	Foliated to gneissic monzonite and monzodiorite, and compositionally equivalent well-banded
pnite	P _{3B} ya	gneiss Foliated to gneissic syenite, alkali-feldspar syenite and alkali-feldspar granite, and
Province)		compositionally equivalent well-banded gneiss
	P _{3B} am PRF-LA	Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) BRADORIAN GRANITOID ROCKS (P _{3A} 1800 – 1710 Ma)
		$P_{3A}dr$ $P_{3A}gd$ $P_{3A}gr$ $P_{3A}ln$ $P_{3A}am$
	Р _{зА} ад Р _{зА} dr	Mafic granulite skialiths, lenses and layers Foliated to gneissic diorite to guartz diorite, and compositionally equivalent well-banded gneiss
	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
	P _{3A} gr	Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well- banded gneiss
es-de-Blanc-Sablon intrusion,	P _{3A} In	Foliated to gneissic leucogabbronorite, and compositionally equivalent well-banded gneiss
par syenite	P _{3A} am PRE-LA	Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) BRADORIAN SUPRACRUSTAL ROCKS (P3A 1800 – 1710 Ma)
		certain; certainly pre-1670 Ma, probably 1800 – 1770 Ma) P _{3A} sp P _{3A} sq P _{3A} ss P _{3A} sx P _{3A} vf P _{3A} vm
s, and Michael Gabbro	Sedime	ntary protolith
M₁rg M₁um M₁yq M₁d ン	P _{3A} sc P _{3A} sp	Calc-silicate rocks, compositionally layered, medium grained Fine- to medium-grained pelitic schist and gneiss
anocratic variants;	P _{3A} sq	Quartzite, meta-arkose, thin to thick bedded
metamorphic derivative	P _{3A} ss P _{3A} sx	Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering Metasedimentary diatexite; coarse grained to pegmatitic and characteristically white-weathering
ocks		protolith
	P _{3A} vf	Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly indicating felsic volcanoclastic protolith
ositic gabbro, locally	P _{3A} vm	Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks
		LEOPROTEROZOIC (P2 2100 – 1800 Ma) ID PALEOPROTEROZOIC (P2c 1900 – 1800 Ma)
		d and related intrusive rocks P _{2c} ga P _{2c} gd P _{2c} gr P _{2c} gr P _{2c} mq P _{2c} mz P _{2c} ya P _{2c} yq
ly layered; subophitic gneous textures	P _{2C} dr	Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss
ayered and locally showing	P _{2C} ga P _{2C} gd	Alkali-feldspar granite, granite and quartz syenite Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss
	P _{2C} gp	Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss
	P _{2C} gr	Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-banded gneiss
C (PM 1800 – 1350 Ma) rocks identified)	P _{2C} mq	Foliated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally equivalent well-banded gneiss
PMyq PMam	P _{2C} mz	Foliated to gneissic monzonite to monzodiorite, and compositionally equivalent well-banded gneis
liated diorite, quartz diorite	P _{2C} ya	Foliated to gneissic syenite to alkali-feldspar syenite, and compositionally equivalent well-banded gneiss
	P _{2C} yq Mafic ar	Syenite to quartz syenite
ed granite and alkali-feldspar	P _{2C} am	
0	P _{2C} am P _{2C} rg	Amphibolite skialiths, lenses and layers (mainly remnants of former dykes) Massive to strongly foliated gabbro and norite, commonly layered; subophitic and locally
ted, monzodiorite to monzonite	' 20' 9	coronitic
ted quartz monzonite	P _{2C} d	Unnamed mafic dykes
ted tonalite to granodiorite	Sedime P _{2C} sc	ntary protolith P2cso P2csq P2css
ted syenite, alkali-feldspar	P _{2C} sc	Calc-silicate rocks, compositionally layered, medium grained
	P _{2C} so P _{2C} sp	Conglomerate and agglomerate, partially of volcanic origin Fine- to medium-grained pelitic schist and gneiss
BOUR GROUP	P _{2C} sq	Quartzite, meta-arkose, thin to thick bedded
	P _{2C} ss	Quartz-feldspar psammitic schist and gneiss; medium grained and commonly rusty-weathering
		P _{2C} vf P _{2C} vi P _{2C} vm P _{2C} vp
	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
eristically associated with	P _{2C} vi P _{2C} vm	Intermediate volcanic rocks Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate
/ having lensoid shapes,	P _{2C} vp	pods; interpreted as mafic volcanic rocks Felsic volcanic porphyry interpreted to be hypabyssal
eldspar layers and calc-silicate	20°F	

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).