

ADLAVIK ISLANDS

A preliminary version of this map appeared uncoloured and page-size, together with a report, based on data collected during the 1979 field season (Doherty,

The present map is augmented by follow-up re-examination of original field maps, stained slabs and petrographic thin sections archived by A. Doherty. Nd-Sm isotopic data (Kerr and Fryer, 1994) and K-Ar isotopic data (Wanless et al., 1970, 1974) are shown. No mineral occurrences are known in the interpreted part of

The present map differs little from that of Doherty (1980) and the main objective in producing it is to provide compilation continuity with the area to the south. The western sliver of the map area is currently the target of detailed geological investigations by the Geological Survey of Newfoundland and Labrador. Unit modification is partly related to a compilation approach applied to the whole of eastern Labrador, but the southern border of the map has been revised as a result of data integration with the adjacent area. Geological boundaries are poorly controlled 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 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 deemed 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.

Gower, C.F. and Doherty, A., 2010: Geology of the Adlavik Islands area (NTS sheets 13O/01 and part of 13O/02, eastern Labrador. Geological Survey, Mines Branch, Department of Natural Resources, Government of Newfoundland and Labrador, Map 2010-01, Open File 013O/0136. Geological cartography by T. Paltanavage, Cartographic Unit, Geological Survey, Department of Natural Resources.

Digital NTS base maps (NTS 130/1 and 2) used for this map are available from Surveys and Mapping Branch, Natural Resources Canada. Magnetic declination at 55° 00' N, 59° 00' W at the start of 2010 was 23° 50' W.

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

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Resources, Government of Newfoundland and Labrador, P.O. Box 8700, St. John's, NL, A1B 4J6, Canada. Email: pub@gov.nl.ca. NOTE: Map 2010-01 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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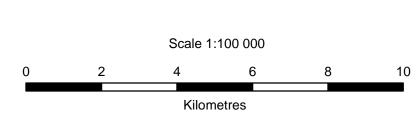
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MINERAL OCCURRENCES DATA SOURCES

GEOLOGICAL DATA SOURCES

| | | | ISOTOPIC DATA | | |
|-----------------------------------|---|--|---|---|--|
| | U/Pb Geochrone | ology | Nd/Sm Geochronology | Rb/Sr Geochronology | K/Ar Geochronology |
| Rock Inher Emp Meta cooliir Pb lo | rited/detrital age rited/detrital age rows age a - a b - b m - 1 r - ru t - tit x - x c - x con c - c nc - c l.i | meral abbreviations: allanite baddeleyite monazite utile itanite kenotime zircon ncordia abbreviations: concordant - near-concordant - lower intercept - upper intercept | Sample number Rock type Epsilon value Depleted mantle age Age of rock (? age inferred) | Sample number Rock type Initial Sr ratio calculated from time t Age of rock (? age inferred) (* one of two or more analyses) | Sample number Rock type Age Mineral; Method (* average of two or more analyses) Biot - biotite Hbl - hornblende Musc - muscovite WR - whole rock plat - plateau age tot. gas - total gas age |
| 1ethod | Reference(s) | Samples | | | |
| l-Pb | no data | | | - | |
| ld-Sm | Kerr and Fryer (1994) | 1181; AKZ-2 | | | |
| b-Sr | no data | | | | |
| | | | | | |
| -Ar | Wanless et al. (1970) | GSC67-134 | | | |

| | OCCURRENCE EVIATIONS | |
|--|--|--|
| Amz Au Bt Cly Cr Cu Fe Fel Gnt Ilm Lst Mgt Mo Ms Neph Ni Pb Pd Pt Pyr Saph Si Stn Th Tourm Tpz U 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 | |
| symbols do | occurrence and structural not appear on each map. | |

* Generation of structure only applicable

at observation site.

| Namalfault | |
|---|----------------------------|
| Normal fault | |
| Strike-slip fault | $\sim \sim \sim \sim \sim$ |
| Thrust fault | *** |
| Normal fault reactivating thrust | |
| Fold axial plane (1st, 2nd, 3rd generation)* | L+ L++ L+++ |
| S-fold axis (1st generation) | ₹+-> |
| Z-fold axis (1st generation) | ₹+-> |
| 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 | - Ŷ- |
| 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 | |

SYMBOLS

MAP 2010-01

OPEN FILE 013O/0136 GEOLOGY OF THE ADLAVIK ISLANDS AREA (NTS SHEETS 130/01 & PART OF 130/02) **EASTERN LABRADOR**

LEGEND

DEVONIAN (?)

EARLY CAMBRIAN Forteau Formation

Dd / Sandwich Bay and Battle Harbour dykes

NEOPROTEROZOIC – EARLY CAMBRIAN

NCLc Lighthouse Cove Formation

NCBa Bateau Formation

NDm NGi NSb

NDm Double Mer Formation

NSb Sandwich Bay conglomerate

LATE MESOPROTEROZOIC (M₃ 1200 – 900 Ma)

LATE POST-GRENVILLIAN INTRUSIONS (M_{3D} ca. 975 – 955 Ma)

M_{3D}gp M_{3D}gr M_{3D}ln M_{3D}mn M_{3D}mq M_{3D}mz M_{3D}yq M_{3D}d //

M_{3D}gr Massive to weakly foliated granite to alkali-feldspar granite

M_{3D}mn Massive to weakly foliated monzogabbro and monzonorite

EARLY POST-GRENVILLIAN INTRUSIONS (M_{3C} ca. 985 – 975 Ma)

M_{3C}gr Weakly to moderately foliated granite to alkali-feldspar granite

M_{3C}In Weakly to moderately foliated leucogabbro to leuconorite

M_{3C}mn Weakly to moderately foliated monzogabbro to monzonorite

M_{3C}mq Weakly to moderately foliated monzonite to quartz monzonite

M_{3C}yq Weakly to moderately foliated syenite, quartz syenite and alkali-feldspar syenite

M_{3B}gp Moderately to strongly foliated megacrystic/porphyritic granodiorite to quartz diorite

M_{3C}rg Weakly to moderately foliated gabbro, norite and troctolite

M_{3B}gd Moderately to strongly foliated granodiorite to quartz diorite

M_{3B}gr Moderately to strongly foliated granite to alkali-feldspar granite

PRE-GRENVILLIAN INTRUSIONS (M_{3A} ca. 1200 – 1085 Ma)

M_{3A}mn Weakly to strongly foliated monzonite to monzonorite

MIDDLE MESOPROTEROZOIC (M2 1350 - 1200 Ma)

EARLY MESOPROTEROZOIC (M₁ 1600 – 1350 Ma)

granulite facies equivalents

of monzodiorite or leucogabbronorite

grading into gabbronorite, locally coronitic

M₁mn Moderately to strongly foliated monzonorite

M₁d Mafic dykes; includes Michael Gabbro

RECRYSTALLIZED IGNEOUS ROCKS

and to leucoamphibolite

syenite and quartz syenite

Sedimentary protolith

Volcanic protolith

PMsp Pelitic schist and gneiss

PMgd Weakly to strongly foliated granite to granodiorite

PMgp Megacrystic/porphyritic recrystallized granite to quartz monzonite

PMIn Medium- to coarse-grained, recrystallized leuconorite, leucogabbro

PMrg Medium- to coarse-grained, gabbro, norite and troctolite

PMam Amphibolite; generally thought to be derived from mafic dykes

PMsc Calc-silicate rocks, compositionally layered, medium grained

PMss Quartz-feldspar psammitic schist and gneiss; medium grained

possibly indicating felsic volcaniclastic protolith

pods; interpreted as mafic volcanic rocks

PMsc PMsp PMsq PMss PMsx PMvf PMvm

PMsq Quartzite, meta-arkose, thin to thick bedded

psammitic gneiss and quartzite

M₂gr Weakly to strongly foliated granite and alkali-feldspar granite

M₂yq Weakly to strongly foliated syenite, quartz syenite and alkali-feldspar syenite

Weakly to strongly foliated gabbronorite (in database only - Lourdes-de-Blanc-Sablon intrusion,

e.g., Upper Paradise River, Kyfanan Lake and 13B/12 intrusions, and Michael Gabbro

M₁an Massive or weakly foliated anorthosite to leucogabbronorite, indistinctly layered in places

M₁dr Massive, weakly or strongly foliated diorite to amphibolite, may be metamorphic derivative

Massive, weakly or strongly foliated leucogabbronorite and anorthositic gabbro, locally

M₁rg Massive to strongly foliated gabbro, norite and troctolite, commonly layered; subophitic and locally coronitic; includes recrystallized derivatives retaining igneous textures

M₁um Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally showing

LATE PALEOPROTEROZOIC AND EARLY MESOPROTEROZOIC (PM 1800 – 1350 Ma)

PMdr Medium-grained, equigranular, recrystallized weakly to strongly foliated diorite, quartz diorite

PMgr Medium- to coarse-grained, recrystallized weakly to strongly foliated granite and alkali-feldspar

PMmd Medium- to coarse-grained, recrystallized, weakly to strongly foliated, monzodiorite to monzonite

PMmq Medium- to coarse-grained, recrystallized, weakly to strongly foliated quartz monzonite

PMtn Medium- to coarse-grained, recrystallized, weakly to strongly foliated tonalite to granodiorite

PMyq Medium- to coarse-grained, recrystallized, weakly to strongly foliated syenite, alkali-feldspar

PMsx Coarse-grained to pegmatitic-granitic material (diatexite), characteristically associated with

PMvf Fine- to medium-grained, banded quartzofeldspathic rocks; locally having lensoid shapes,

PMvm Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate

SUPRACRUSTAL ROCKS PROVISIONALLY ASSIGNED AS PITTS HARBOUR GROUP

(Ages generally unknown, but ca. 1650 Ma and 1500 – 1470 Ma rocks identified)

 PMdr
 PMgd
 PMggggg
 PMgg
 PMgg

M₁am Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants;

M₁gp Moderately to strongly foliated megacrystic/porphyritic granitoid rocks

M₁gr Massive, weakly or strongly foliated granite to quartz monzonite

 M_1mq Moderately to strongly foliated monzonite to quartz monzonite

M₁mz Moderately to strongly foliated monzonite to monzodiorite

M₁yq Moderately to strongly foliated syenite and quartz syenite

 M_1 an M_2 am M_3 dr M_3 gp M_1 gr M_1 ln M_3 mn M_4 mq M_3 mz M_4 rg M_4 um M_4 yq M_4 d \sim

M_{3B}yn Moderately to strongly foliated aegerine- or nepheline-bearing syenite

M_{3B}d Unnamed mafic dykes (Makkovik Province and adjacent Grenville Province)

M_{3C}d L'Anse-au-Diable, York Point, Gilbert Bay mafic dykes

SYN-GRENVILLIAN INTRUSIONS (M_{3B} ca. 1085 – 985 Ma)

M_{3B}gd M_{3B}gp M_{3B}gr M_{3B}yn M_{3B}d

e.g., Gilbert Bay pluton

M_{3A}gr Weakly to strongly foliated granite

e.g., Upper North River intrusion

 M_2 gr M_2 rg M_2 yq M_2 d \nearrow

M_{3A}gr M_{3A}mn

M₂d Mealy dykes

M_{3C}gr M_{3C}ln M_{3C}mn M_{3C}mq M_{3C}rg M_{3C}yq M_{3C}d >

M_{3D}mq Massive to weakly foliated quartz monzonite; mantled feldspar textures

M_{3D}yq Massive to weakly foliated syenite, quartz syenite and alkali-feldspar quartz syenite

M_{3D}ln Massive to weakly foliated leucogabbro to leuconorite

M_{3D}mz Massive to weakly foliated monzonite to monzodiorite

M_{3D}gp Massive to weakly foliated megacrystic/porphyritic granite to quartz monzonite

NEOPROTEROZOIC

NGi Gilbert arkose

Nc Clastic dykes

Nq Quartz veins

Nd Long Range dykes

e.g., Chateau Pond granite

M_{3D}d Unnamed mafic dykes

e.g., Beaver Brook and Picton Pond plutons

Bradore Formation (subdivided into L'Anse-au-Clair, Crow Head and Blanc-Sablon members)

| 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} gp P _{3C} gr P _{3C} mr P _{3C} mq P _{3C} mz P _{3C} yq P _{3C} | LATE I | PALEOF | PROTE | ROZOI | C (P ₃ 1 | 800 – 1 | 600 Ma | a) | | |
|---|--------|--------|-------|-------|---------------------|---------|--------|----|---------|--|
| | | | | | | | | | 600 Ma) | |
| | e.a Pa | | | | | | | | | |

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

P_{3C}gd Granite to granodiorite forming discrete unmigmatized plutons

P_{3C}gp Megacrystic/porphyritic granite to granodiorite

P_{3C}gr Granite and minor alkali-feldspar granite P_{3C}mn Monzonorite and monzogabbro

P_{3C}mq Quartz monzonite, including rare quartz syenite

P_{3C}mz Monzonite, including minor syenite

P_{3C}yq Syenite to quartz syenite forming discrete plutons

P_{3C}d Unnamed mafic 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

P_{3C}ag Weakly to markedly foliated mafic granulite, plus leucocratic and melanocratic variants P_{3C}am Weakly to markedly foliated amphibolite, plus leucocratic and melanocratic variants

P_{3C}an Massive to strongly foliated anorthosite and leucogabbronorite

P_{3C}rg Massive to strongly foliated gabbro and norite, commonly layered; subophitic and locally

P_{3C}ln Primary textured to recrystallized leucogabbronorite and leucogabbro; coronitic locally P_{3C}lt Primary textured to recrystallized leucotroctolite

P_{3C}um Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally showing

EARLY LABRADORIAN MAFIC AND ASSOCIATED ROCKS (P_{3B} 1710 – 1660 Ma)

e.g., Alexis River anorthosite (assigned here although age is uncertain) P_{3B}ag P_{3B}an P_{3B}ln P_{3B}mn P_{3B}rg P_{3B}um

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 Weakly foliated to gneissic leucogabbronorite and leucogabbro; coronitic locally

P_{3B}mn Weakly foliated to gneissic monzonorite and monzogabbro P_{3B}rg Weakly foliated to gneissic gabbro and norite

P_{3B}um Massive, weakly or strongly foliated ultramafic rocks, commonly layered and locally

in part derived from leucogabbronorite

e.g., Neveisik Island and Red Island events

showing cumulate textures EARLY LABRADORIAN GRANITOID AND ASSOCIATED ROCKS (ca. 1678 and 1671 Ma)

P_{3B}dr P_{3B}gd P_{3B}gp P_{3B}gr P_{3B}mq P_{3B}mz P_{3B}ya P_{3B}am P_{3B}dr Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss;

P_{3B}gd Foliated to gneissic granodiorite and compositionally equivalent well-banded gneiss

P_{3B}gp Foliated to gneissic megacrystic/porphyritic granitoid rocks, augen gneiss

P_{3B}gr Foliated to gneissic granite and alkali-feldspar granite, and compositionally equivalent well-

P_{3B}mq Foliated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally equivalent well-banded gneiss

P_{3B}mz Foliated to gneissic monzonite and monzodiorite, and compositionally equivalent well-banded

compositionally equivalent well-banded gneiss

P_{3B}ya Foliated to gneissic syenite, alkali-feldspar syenite and alkali-feldspar granite, and

P_{3B}am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes)

PRE-LABRADORIAN GRANITOID ROCKS (P_{3A} 1800 – 1710 Ma) P_{3A}ag P_{3A}dr P_{3A}gd P_{3A}gp P_{3A}gr P_{3A}ln P_{3A}am

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

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-

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)

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}SS P_{3A}SX P_{3A}Vf P_{3A}Vn

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}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

P_{3A}Vf Fine- to medium-grained, banded quartzofeldspathic rocks; locally have lensoid shapes, possibly

P_{3A}vm Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks

MID PALEOPROTEROZOIC (P₂ 2100 - 1800 Ma) LATE MID PALEOPROTEROZOIC (P_{2C} 1900 – 1800 Ma)

Granitoid and related intrusive rocks

P_{2c}dr P_{2c}ga P_{2c}gd P_{2c}gp) P_{2c}gr P_{2c}mq P_{2c}mz P_{2c}ya P_{2c}yq

P_{2C}dr Foliated to gneissic diorite to quartz diorite, and compositionally equivalent well-banded gneiss P_{2C}ga Alkali-feldspar granite, granite and quartz syenite

P_{2C}gd 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

P_{2C}mq Foliated to gneissic quartz monzonite, grading into diorite or syenite, and compositionally

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

P_{2C}yq Syenite to quartz syenite

Mafic and associated intrusive rocks

P_{2C}am P_{2C}rg P_{2C}d

P_{2C}am Amphibolite skialiths, lenses and layers (mainly remnants of former dykes)

P_{2C}rg Massive to strongly foliated gabbro and norite, commonly layered; subophitic and locally

P_{2C}d Unnamed mafic dykes

Sedimentary protolith P_{2C}sc P_{2C}so P_{2C}sp P_{2C}sq P_{2C}ss

P_{2C}sc Calc-silicate rocks, compositionally layered, medium grained P_{2C}so Conglomerate and agglomerate, partially of volcanic origin

P_{2C}sp Fine- to medium-grained pelitic schist and gneiss

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

Volcanic protolith

P_{2C}vb 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

P_{2C}vi Intermediate volcanic rocks

P_{2C}vm Fine- to medium-grained, banded amphibolite containing quartz-feldspar layers and calc-silicate pods; interpreted as mafic volcanic rocks

P_{2C}vp Felsic volcanic porphyry interpreted to be hypabyssal

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).

β δ

β Brittle deformation; cataclastic rocks, pseudotacholite δ Ductile deformation; mylonite, straight gneiss

AGE GENERALLY POORLY CONSTRAINED

AGE GENERALLY POORLY CONSTRAINED

f k p q f Aplite, microgranite (felsite)

> k Carbonate vein p Pegmatite

q Quartz vein