

LEGEND

The prefix 'meta' applies to all lithologies in units Agn to PPLg

CENOZOIC

QUATERNARY

PLEISTOCENE-RECENT



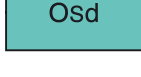
Unconsolidated glacial drift with associated marine, lacustrine, fluvial, and bog deposits. Chiefly marine muds on coastal areas. Includes extensive felsenmeer in proximity to Barnes Ice Cap.

unconformity

PALEOZOIC

ORDOVICIAN(?) AND SILURIAN

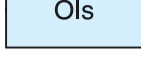
UPPER UPPER ORDOVICIAN (?) AND LOWER SILURIAN (LLANDOVERIAN)



Calcareous dolostone, dolostone, dolomitic limestone; minor calcareous and dolomitic breccia and flat-pebble conglomerate.

ORDOVICIAN

UPPER MIDDLE AND UPPER ORDOVICIAN



Dolomitic limestone; minor calcareous dolostone.

UPPER LOWER AND LOWER MIDDLE ORDOVICIAN



SHIP POINT FORMATION: dolostone, in part sandy, silty, argillaceous; dolomitic flat-pebble conglomerate; minor dolomitic sandstone, siltstone, breccia, quartz-cemented sandstone.

unconformity

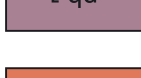
PALEOPROTEROZOIC



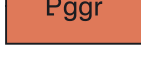
Ultramafic rocks; serpentinized peridotite and hornblendite; foliated to schistose; dark green or brown weathering.



Biotite monzogranite, granodiorite; commonly grades into biotite syenogranite; massive, fine- to coarse-grained, pink to white; abundant crosscutting veins and sheets of associated biotite-muscovite-garnet±tourmaline pegmatite; locally contains inclusions of layered orthogneiss (unit Agn), quartz diorite (unit Pqd), psammite (unit PPD), carbonate (unit PPF), and psammite/pelite (unit PPLs); local weak foliation.

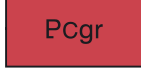


Hornblende-clinopyroxene-biotite quartz diorite; biotite-hornblende monzogranite veins; massive, medium- to coarse-grained, black and white peppered texture; locally foliated to amphibolite.

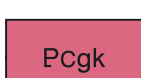


Biotite-garnet±muscovite±sillimanite (fibrolite)±cordierite monzogranite; leucocratic, medium-grained to pegmatitic, white- to light-pink; weakly to moderately foliated; abundant crosscutting veins, dykes, and sheets of associated muscovite-garnet±tourmaline pegmatite; contains abundant inclusions and rafts of high-grade psammite, semipelite (unit PPLg); possibly derived by partial to total melting of Piling Group sedimentary rocks.

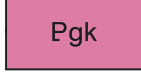
CUMBERLAND BATHOLITH (units PCgk-PCgr)



Biotite±garnet monzogranite; commonly grades into biotite syenogranite; massive, medium- to coarse-grained, grey to pink; varies from weakly to strongly foliated; locally contains rafts and inclusions of K-feldspar megacrystic monzogranite (unit PCgk).



Biotite±orthopyroxene±garnet K-feldspar megacrystic monzogranite, granodiorite; dark to buff, K-feldspar megacrysts in a finer-grained matrix of plagioclase, quartz, biotite; varies from weakly to strongly foliated.



Biotite±garnet±hornblende K-feldspar megacrystic monzogranite, granodiorite; dark to buff, K-feldspar megacrysts in a finer-grained matrix of plagioclase, quartz, biotite; varies from weakly to strongly foliated; K-feldspar megacrysts commonly rimmed by plagioclase (Rapakivi texture); contains inclusions of high-grade psammite (unit PPLg).

intrusive contact

PROTEROZOIC

PILING GROUP (units PPD – PPLg)

Upper Sequence



LONGSTAFF BLUFF FORMATION (metamorphic mineral units PPLb-PPLg) Psammite, semipelite, pelite, arkosic- and lithic-wacke; interbedded; thin- to thick-bedded, light- to dark-grey; graded beds; minor hornblende-bearing calcsilicate beds and concretions; garnet-cordierite-K-feldspar-melt pod metamorphic assemblages; locally includes bodies of biotite-garnet±muscovite±sillimanite (fibrolite)±cordierite monzogranite.

mineral isograd



Psammitic, semipelite, pelite, arkosic- and lithic-wacke; interbedded; thin- to thick-bedded, light- to dark-grey; graded beds; minor hornblende-bearing calcsilicate beds and concretions; biotite-sillimanite-K-feldspar-melt pod metamorphic assemblages; locally includes bodies of biotite-allanite±hornblende monzogranite, granodiorite, syenogranite or biotite-garnet±muscovite±sillimanite (fibrolite)±cordierite monzogranite, and associated biotite-muscovite-garnet±tourmaline pegmatite.

mineral isograd



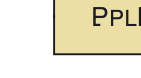
Psammitic, semipelite, pelite, arkosic- and lithic-wacke; interbedded; thin- to thick-bedded, light- to dark-grey; graded beds including inverse metamorphic grading; minor hornblende-bearing calcsilicate beds and concretions; biotite-muscovite-cordierite±andalusite metamorphic assemblages; locally includes bodies of biotite-allanite±hornblende monzogranite, granodiorite, syenogranite or biotite-garnet±muscovite±sillimanite (fibrolite)±cordierite monzogranite, and associated biotite-muscovite-garnet±tourmaline pegmatite.

mineral isograd



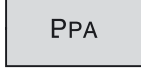
Psammitic, semipelite, pelite, arkosic- and lithic-wacke; interbedded; thin- to thick-bedded, light- to dark-grey; graded beds; biotite-muscovite±garnet metamorphic assemblages.

Lower Sequence

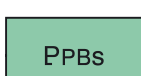


BRAVO LAKE FORMATION (units PPBm-PPBs)

Dominantly volcanoclastic sedimentary beds; millimetre- to centimetre-scale laminations, dark grey to white; minor quartzite, semipelite, iron-formation; minor basalt; pillowed, fragmental and massive flows; light- to dark-green; gabbro; peridotite; layered peridotite-gabbro sills.



Dominantly basalt; pillowed, fragmental and massive flows; light- to dark-green; mafic and ultramafic cumulates; metre-scale layers, dark green to brown; minor volcanoclastic sedimentary beds; millimetre- to centimetre-scale laminations, dark grey to white; minor quartzite, semipelite, iron-formation; gabbro; peridotite; layered peridotite-gabbro sills.



FLINT LAKE FORMATION: marble, dolomite and calcsilicate; chiefly white to grey or buff weathering; may include semipelite, pelite, quartzite and carbonate facies iron-formation; locally includes bodies of biotite-allanite±hornblende monzogranite, granodiorite, syenogranite and associated biotite-muscovite-garnet±tourmaline pegmatite.



DEWAR LAKES FORMATION: quartzite and feldspathic quartzite, semipelite; grey, white, and black; laminated, bedded, and massive, locally crossbedded; may include magnetite rich laminae; locally includes iron-formation; chiefly oxide facies with silicate facies; metallic grey; fine- to coarse-grained; laminated to bedded; may include marble, dolomite and calcsilicate; locally includes bodies of biotite-allanite±hornblende monzogranite, granodiorite, syenogranite or biotite-garnet±muscovite±sillimanite (fibrolite)±cordierite monzogranite, and associated biotite-muscovite-garnet±tourmaline pegmatite.

unconformity

ARCHEAN

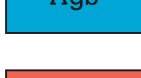
NEOARCHEAN



Biotite±hornblende tonalite, granodiorite; grey to tan, fine- to medium-grained; locally with diorite inclusions; varies from weakly to strongly foliated, locally an L-tectonite.



Hornblende-biotite±clinopyroxene gabbro; dark, medium- to coarse-grained; ophitic- to sub-ophitic texture; locally foliated to amphibolite.



Biotite±hornblende K-feldspar megacrystic monzogranite, granodiorite; pink to buff; K-feldspar megacrysts in a finer-grained matrix of plagioclase, quartz, biotite±hornblende; varies from weakly to strongly foliated, locally an L-tectonite; gradational into granitic and granodioritic rocks lacking megacrysts.

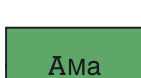


Biotite±hornblende±allanite monzogranite, syenogranite; pink, fine- to medium-grained; massive to moderately foliated; locally grades into megacrystic granite.

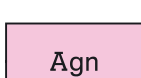
MARY RIVER GROUP (units ĀMa-ĀMp)



Psammitic, semipelite; grey- to rusty-brown, flaggy; centimetre- to metre-scale laterally continuous layers; abundant melt pods; local interlayers of quartzite, pelite and iron-formation.



Hornblende-biotite±clinopyroxene amphibolite; fine- to medium-grained; alternating millimetre- to centimetre-scale black and green layers; metre-scale layers of coarser-grained amphibolite, semipelite and pelite; may be derived from a volcanic protolith and associated sedimentary rocks.



Biotite±hornblende quartzofeldspathic orthogneiss; leucocratic gneiss of plutonic origin; granodioritic to monzogranitic; alternating grey to white, black, pink, fine- to medium-grained; moderately to well foliated, locally layered with concordant syenogranitic leucosome; locally contains amphibolite and tonalite bands, gabbro/anorthosite boudins; locally migmatitic.

