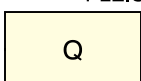


LEGEND

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

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 -----

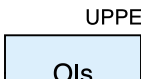
PALEOZOIC

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



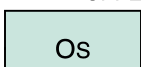
Calcareous dolostone, dolostone, dolomitic limestone; minor calcareous and dolomitic breccia and flat-pebble conglomerate

ORDOVICIAN
UPPER MIDDLE AND UPPER ORDOVICIAN



Dolomitic limestone; minor calcareous dolostone

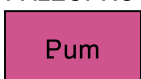
UPPER LOWER AND LOWER MIDDLE ORDOVICIAN



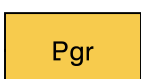
SHIP POINT FORMATION: dolostone, in part sandy, silty, argillaceous; dolomitic flat-pebble conglomerate; minor dolomitic sandstone, siltstone, breccia, quartz-cemented sandstone

----- unconformity -----

PALEOPROTEROZOIC



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

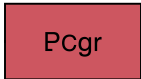


Biotite-allanite ± hornblende monzogranite, granodiorite; commonly grades into biotite-allanite ± hornblende syenogranite; massive, fine- to coarse-grained, pink to white; abundant crosscutting veins and sheets of associated biotite-muscovite-garnet ± tourmaline pegmatite; locally contains inclusions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

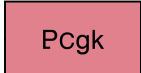


Biotite-garnet ± muscovite ± sillimanite (fibrolite) ± cordierite syenogranite; leucocratic, medium-grained to pegmatitic, white to light pink; weakly to moderately foliated; contains abundant inclusions and rafts of high grade psammite, semipelite (unit PPLg); possibly derived by partial to total melting of Piling Group sedimentary rocks (see descriptive notes)

CUMBERLAND BATHOLITH (units PCgk - PCgr)



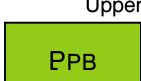
Biotite ± garnet monzogranite; commonly grades into biotite syenogranite; massive, medium- to coarse-grained, grey to pink; varies from weakly to strongly foliated; locally contains rafts and inclusions of K-feldspar megacrystic monzogranite (unit PCgk)



Biotite ± hornblende ± 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; K-feldspar megacrysts commonly rimmed by plagioclase (Rapakivi texture); contains inclusions of high-grade psammite (unit PPLg) (Longstaff Bluff Formation)

----- intrusive contact -----

PILING GROUP (units PPD - PPB)
Upper Sequence



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

----- tectonic contact -----

PROTEROZOIC



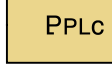
LONGSTAFF BLUFF FORMATION (metamorphic mineral units PPLb - PPLg)
Psammite, semipelite, pelite, arkosic- and lithic-wacke; interbedded; thin to thick bedded, light to dark grey; graded beds; minor hornblende-bearing calcsilicate beds and concretions; garnet-cordierite-K-feldspar-melt pod mineral assemblages;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

----- mineral isograd -----



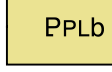
Psammitic, semipelite, pelite, arkosic- and lithic-wacke; interbedded; thin to thick bedded, light to dark grey; graded beds; minor hornblende-bearing calcsilicate beds and concretions; biotite-sillimanite-K-feldspar ± melt pod mineral assemblages; locally includes bodies of biotite-allanite ± hornblende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

----- mineral isograd -----

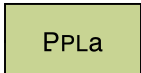


Psammitic, semipelite, pelite, arkosic- and lithic-wacke; interbedded; thin to thick bedded, light to dark grey; graded beds including inverse metamorphic grading; minor hornblende-bearing calcsilicate beds and concretions; biotite-muscovite-cordierite ± andalusite metamorphic assemblages; locally includes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

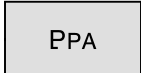
----- mineral isograd -----



Psammitic, semipelite, pelite, arkosic- and lithic-wacke; interbedded; thin to thick bedded, light to dark grey; graded beds; minor hornblende-bearing calcsilicate beds and concretions; biotite-muscovite ± garnet mineral assemblages

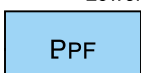


LONGSTAFF BLUFF FORMATION: Arkosic- and lithic-wacke; interbedded with psammite, semipelite, pelite; thin to thick bedded, white, gritty surface; graded beds; minor hornblende-bearing calcsilicate beds and concretions; biotite-muscovite ± garnet mineral assemblages

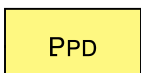


ASTARTE RIVER FORMATION: sulphidic schist; rusty weathering; graphitic, pyrrhotite-pyrite schist and slate; sulphide facies iron formation

Lower Sequence



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 cross-bedded; 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 and associated biotite-muscovite-garnet ± tourmaline pegmatite

----- unconformity -----

ARCHEAN

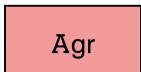
NEOARCHEAN



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

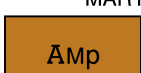


Biotite ± hornblende K-feldspar megacrystic monzogranite, granodiorite; pink to buff; K-feldspar megacrysts in a finer-grained matrix of plagioclase, quartz, biotite ± hornblende; varies from weakly to strongly foliated, locally an L-tectonite; gradational into granitic and granodioritic rocks lacking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

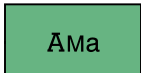


Biotite monzogranite, syenogranite; pink, fine- to medium-grained; massive to moderately foliated; locally grades into megacrystic granite

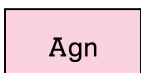
MARY RIVER GROUP (units Ama - Amp)



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

----- limit of field work, 2000 -----



Bedrock areas not mapped during the summer of 2000

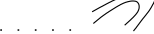
Geological contact (defined, approximate)



Limit of field work, 2000



Form lines



D_{1p} thrust fault (defined, approximate); teeth on hanging wall



D_{2p} thrust fault (defined); teeth on hanging wall



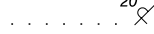
Oblique-slip fault (defined)



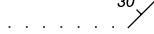
Normal fault (approximate); solid circle on hanging wall



Bedding (upright, tops known)



Bedding (overturned, tops known)



Bedding (tops unknown)



Bedding (transposed)



Cleavage



Schistosity



Foliation



Gneissosity



Mineral lineation



Crenulation axis



Mesosopic S fold axis



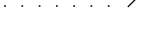
Mesosopic M fold axis



Mesosopic Z fold axis



Mesosopic fold axial plane



Syncline (upright, overturned)



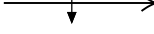
Anticline (upright)



Synform (upright)



Antiform (upright)



Line of cross-section

