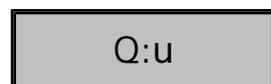


Pleistocene

Surficial deposits



Fluvial and glaciofluvial deposits (O'Brien and Taylor, 1983b)



Unconsolidated sediments (comp. various sources)

Middle Jurassic to Early Cretaceous

Dildo Pond pluton



Pegmatitic, biotite-titanaugite gabbro (comp. Currie, 1995a)

Budgells Harbour Gabbro



Analcite gabbro, hornblende gabbro, hornblende pyroxenite, and biotite gabbro (Williams et al., 1985)

Pennsylvanian

Howley Formation



Grey to red sandstone, pebble-cobble conglomerate and siltstone, black carbonaceous shale, minor bituminous coal (Hyde, 1982)

Mississippian to Pennsylvanian

Barachois Group

Searston Formation



Mississippian. Green-grey and red sandstones and red siltstones; green-grey silty mudstones and siltstones; caliche concretions; local conglomerates; thin coal beds (Knight, 1983)



Arkosic and subarkosic, grey to red sandstones and pebbly sandstones, red to grey siltstones, grey to black shale and coal beds; the lithologies are arranged in fining-upwards sequences; locally developed conglomerates occur along fault margins of the St. George subbasin (Williams et al., 1985)



Reddish-brown to greyish-red conglomerate and sandstone (Dean, 1977h)



Red and grey conglomerate, sandstone, shale, siltstone and minor limestone (Kean et al., 1994b)

Clancey's Pond Complex



Alkaline ignimbrite and acidic agglomerate (Strong et al., 1978a)

Spanish Room Formation



Red sandstone, liinterbedded red and green conglomerate and calcareous mudstone; rare pale pink and white limestone and black shale (comp. O'Driscoll et al., 1995; comp. Strong et al., 1978a)

Terrenceville Formation



Maroon and brown, pebble and cobble conglomerate; red sanstone, red and pale green mudstone. (O'Driscoll et al., 1995)

St. Lawrence Granite



Pink to red, riebeckite-bearing, alkali granite and quartz-feldspar porphyry. (Williams et al., 1985)

Mississippian

Codroy Group



Grey carbonate-pebble conglomerate; red pebbly sandstone, red siltstone and caliche (Knight, 2000)

Woody Cape Formation



Green-grey, green and red mudstones, siltstones, micaceous and subarkosic sandstones, black to grey fossiliferous shales, fossiliferous and unfossiliferous limestones, and dolostones; deposited in a shallow marine and fluvial deltaic environment (Williams et al., 1985)

*Robinsons River
Formation*



Brow Pond lentil: Pink and red, pebbly and cobbly arkosic grits and sandstones (Knight, 1983)



Overfall Brook Member: Red to white, pebbly to gritty, arkosic sandstones with some red siltstones and grey carbonaceous mudstones, siltstones and sandstones; interpreted to be alluvial fan deposits (comp. Williams et al., 1985)



Mollichignick Member: Thin fossiliferous limestone, dolomitic limestone, nodular massive limestone and dolostone (comp. Brown and Knight, 1977)



Mollichignick Member: Pale grey caliche limestone (Chorlton and Knight, 1983)



Mollichignick Member: Brown-red conglomerate, pebbly sandstone, and red micaceous and arkosic sandstone (Chorlton and Knight, 1983)



Mollichignick Member: Red and minor green siltstone and mudstone interbedded with green-grey and brown-red, fine- to coarse-grained sandstone, grey conglomerate and shale (Chorlton and Knight, 1983)



Highlands Member: Predominantly thick, red, with some grey and yellow, sandstones (locally pebbly) and intercalated thick red siltstones with thin red sandstones; caliche limestones and some caliche conglomerates; two units of limestones and grey to white sandstones and siltstones (possibly marine) (Knight, 1983)



Jeffreys Village Member: Black argillaceous limestone (Chorlton and Knight, 1983)

Mi:CRjld

Jeffreys Village Member: Fossiliferous, buff dolomitic limestone; sandy dolomite, calcrete (Chorlton and Knight, 1983)

Mi:CRjs

Jeffreys Village Member: Red, green-grey, grey, and black mudstone, siltstone and fine sandstone (Chorlton and Knight, 1983)

Mi:CRj

Jeffreys Village Member: Predominantly red siltstones with thin red sandstones; thick red and locally grey sandstones, locally pebbly in the north; brown, red and grey conglomerates; caliche limestones; grey shales, siltstones and sandstones; fossiliferous; red, grey, green and black halite-bearing marls, mudstones and siltstones; grey, algal, oolitic and fossiliferous, silty limestones, dolomitic limestones and dolomites; red dolomites; white gypsum; anhydrite and salt in subsurface; deposited in a dominantly non-marine environment (comp. Knight, 1983; comp. Williams et al., 1985)

Mi:CR

Dominantly coarse- to fine-grained redbeds with lesser amounts of salt, gypsum and anhydrite; grey lacustrine and marine shales, mudstones, sandstone and carbonates; caliche and rare celestite beds also occur; deposited in shallow marine and non-marine fluvial, alluvial and flood-plain environments (Williams et al., 1985)

Codroy Road Formation

Mi:CC

Red, green and grey siltstones and mudstones, some thin red sandstones; black dolomites, locally highly fossiliferous; white gypsum and grey anhydrite with grey shales and dolomite laminae (Knight, 1983)

Ship Cove Formation

Mi:CS

Laminated grey cryptalgal limestones and silty and shaly limestones; grey shales, green and red siltstones and shales locally; grey sandstones and intraclastic breccia locally; fossiliferous and contains gypsum molds and fenestra in the upper part of formation (comp. Knight, 1983; comp. Williams et al., 1985)

Mi:C

Intercalated, coarse- to fine-grained red beds; evaporites including sulphate and chloride salts; limestones and dolostones, with some grey lacustrine siliciclastic rocks (Williams et al., 1985)

Deer Lake Group

*Humber Falls
Formation*

Mi:DH

Very light grey, light orange and red sandstone, pink to grey, pebble to cobble conglomerate, and mostly red, but also grey, siltstone (Hyde, 1982)

*Little Pond Brook
Formation*

Mi:DLf

Grey and green, medium- to very coarse-grained sandstone and pebble conglomerate; red, grey, brown and green, very fine- to fine-grained sandstone and siltstone, arranged in well defined fining upwards sequences (Hyde and Ware, 1981)

Mi:DLs

Grey, red, tan and green, very fine- to very coarse-grained sandstone; red, grey and green siltstone and mudstone; red and grey pebble conglomerate; minor cobble-boulder conglomerate (Hyde and Ware, 1981)

Rocky Brook Formation

Mi:DRQ

Squires Park Member: Grey to green siltstone, grey to green and black mudstone, grey dolomitic limestone and calcareous dolostone, dark brown oil shale, very rare gypsum in drill core (Hyde, 1982)

Mi:DRS

Spillway Member: Grey to red and brown, calcareous siltstone, grey to green mudstone, grey to cream and orange-weathering calcareous dolostone and dolomitic limestone, rare grey to red sandstone, and dark brown oil shale (comp. Hyde, 1982)

Mi:DR

Red calcareous siltstone and fine-grained sandstone, grey to green, siltstone and mudstone, black mudstone, grey calcareous dolostone, dolomitic limestone and dolomitic oil shale (comp. Williams et al., 1985)

North Brook Formation

Mi:DNI

Grey limestone breccia and limestone (Hyde, 1982)

Mi:DNt

Mainly red sandstone and siltstone; minor grey to pink limestone; thin gypsum layers reported in drill hole near Humber Canal (Hyde, 1982)

Mi:DNf

Red to grey sandstone and interbedded red siltstone; lithologies arranged in fining-upward sequences (Hyde, 1982)

Mi:DNs

Mainly red to grey sandstone, but also red to grey pebble to cobble conglomerate and pebbly sandstone, red siltstone, grey and pink limestone (Hyde, 1982)

Mi:DNc

Mainly red to grey, pebble to boulder conglomerate and interbedded red to grey sandstone (Hyde, 1982)

Mi:DNb

Basal grey conglomerate of carbonate clasts (Knight, 1994)

Mi:DN

Red to grey pebble to boulder conglomerate and calcareous sandstone; red calcareous siltstone, grey micritic limestone and limestone breccias; rare amygdaloidal basalt; thin gypsum layers in drill holes (Williams et al., 1985; Hyde, 1982)

Wigwam Brook Formation

Mi:W

Red, brown and grey sandstone; grey to red, pebble to boulder conglomerate; grey limestone (Hyde, 1982)

*Wetstone Point
Formation*



Grey, green and red sandstone and siltstone, grey pebbly sandstone and pebble-cobble conglomerate, and minor green and dark grey to black mudstone and grey limestone (Hyde, 1982)

Shanadithit Formation



Poorly indurated, red and grey sandstone and conglomerate; minor limestone and siltstone (Whalen, 1993a)

Late Devonian to Mississippian

Gander Lake Granite



Massive, sparsely megacrystic, medium-grained, biotite granite (O'Neill and Colman-Sadd, 1993)



Massive, megacrystic, coarse-grained, biotite granite (O'Neill and Colman-Sadd, 1993)



Massive, grey to white, K-Feldspar megacrystic, medium- to coarse-grained, biotite granite (comp. O'Neill and Colman-Sadd, 1993; comp. O'Brien et al., 1991)

Anguille Group (Deer Lake Basin)

Cape Rouge Formation



Mississippian. Grey to brown sandstone and plant-bearing siltstone and shale; local limestone interbeds (comp. Bostock et al., 1983c)



Mississippian. Tan- to orange-weathering, dolomitic sandstone (with graded bedding), grey, reddish-brown, and red dolomitic siltstones, minor tan dolostone (Hyde, 1982)

*Thirty-fifth Brook
Formation*



Mississippian. Grey to pink, very arkosic, sandstone, pebbly sandstone, and pebble to boulder conglomerate, dark grey siltstone and sandstone, rare limestone (Hyde, 1982)

Saltwater Cove Formation



Dark grey sandstone and siltstone (locally dolomitic), black carbonaceous shale and mudstone, interbedded with light grey sandstone, pebbly sandstone, and pebble to cobble conglomerate; rare limestone and dolostone (Hyde, 1982)



Hampden Bay Member: Grey and tan-weathering sandstones (with graded bedding) interbedded with dark grey siltstones, and black, carbonaceous shales (Hyde, 1982)

Crouse Harbour Formation



Brown to red conglomerate, minor sandstone (Bostock et al., 1983a)

Forty-five Brook Formation



Dark to light grey sandstone, dark grey siltstone, black carbonaceous shale, tan to orange-weathering dolostone, minor pabble to cobble conglomerate (Hyde, 1982)

Blue Gulch Brook Formation



Grey, carbonate and quartz pebble to cobble conglomerate, grey sandstone and siltstone, calcareous and dolomitic sandstone, quartzose and dolomitic limestone (Hyde, 1982)

Gold Cove Formation



Red and grey sandstones, pebbly sandstones, pebble to cobble conglomerates, and siltstones (Hyde, 1982)

Anguille Group (Bay St. George Subbasin)

*Spout Falls
Formation*

Mi:AgPf

Mississippian. Fischells conglomerate member: Thickly bedded, grey, cobble and pebble conglomerates and sandstones (Knight, 1983)

Mi:AgPs

Mississippian. Red and grey sandstones, pebbly and intraclastic sandstones, minor siltstones; minor conglomerates in the north (Knight, 1983)

Friars Cove Formation

Mi:AgF

Mississippian. Grey sandstones, siltstones and mudstones; grey and black shales; locally red beds; minor dolomitic limestones and dolomites, some stromatolites; basal grey sandstone and conglomerate member; deposited in fluvial-deltaic and lacustrine environments (comp. Knight, 1983; comp. Williams et al., 1985)

Snakes Bight Formation

Mi:AgS

Mississippian. Black shales and thin sandstones at base; bedded and thick units of grey sandstones, black shales and siliceous shales; thin grey siltstones; ferruginous dolomite laminae and beds, minor sandy limestones; lenses of quartz and dolomite pebble conglomerates; deposited as deep-water lacustrine basin floor muds and turbidite sands, and thick sublacustrine and deltaic sands (comp. Knight, 1983; comp. Williams et al., 1985)

*Kennels Brook
Formation*

DB:AgKI

Grey Limestone (Knight, 1976)

DB:AgK

Red and greenish-grey sandstones, pebbly sandstones, conglomerates, and red cleaved siltstones in lower part of formation, with some fining-upward sequences; base of formation not observed; greenish-grey and brown interbedded mudstones and fine-grained sandstones, with minor caliche limestones, in upper part of formation; deposited in fluvial and possibly shallow marine environments (comp. Williams et al., 1985)

Late Devonian

Sedimentary rocks at La Hune Bay

ID:H

Weakly cleaved, calcareous siltstone and sandstone with lenses of carbonate, overlying fractured, carbonate-cemented rubble zone in granite; caliche-like zone containing pebbles and boulders of granite (comp. Dickson et al., 1996b)

Francois Granite

Northeast Lobe

ID:FNf

Pink, fine- to medium-grained, quartz and K-feldspar porphyritic, biotite granite (Dickson et al., 1996b)

ID:FNg

Buff to grey, medium-grained, quartz and plagioclase porphyritic, biotite granodiorite (Dickson et al., 1996b)

ID:FNp

Pink, fine-, medium- and coarse-grained, quartz and K-feldspar porphyritic, biotite granite (Dickson et al., 1996b)

ID:FNcf

Fine- to medium-grained to pegmatitic, quartz and K-feldspar porphyritic, biotite granite (Dickson et al., 1996b)

ID:FNcc

Pink, coarse-grained, quartz and K-feldspar porphyritic, biotite granite (Dickson et al., 1996b)

Southwest Lobe

ID:FSq

Pink, fine- to medium-grained, quartz and K-feldspar porphyritic, biotite granite (Dickson et al., 1996b)



ID:FSb

Buff to grey, medium-grained, quartz and plagioclase porphyritic, biotite granite and granodiorite (Dickson et al., 1996b)



ID:FSk

Pink, coarse-grained, quartz and K-feldspar porphyritic, biotite granite (Dickson et al., 1996b)



ID:FSe

Pink, coarse-grained, equigranular and locally K-feldspar porphyritic, biotite granite (Dickson et al., 1996b)



ID:FSs

Pink, coarse-grained, equigranular to slightly feldspar porphyritic, biotite granite (Dickson et al., 1996b)



ID:FSm

Buff to grey, fine- to medium-grained, feldspar porphyritic, granophyric, biotite granite (Dickson et al., 1996b)

Iona Islands Intrusive Suite



ID:Ig

Reddish-pink, medium grained granite and granite dikes and sills, locally containing abundant gabbro inclusions (King, 1988)



ID:Im

Gray, medium grained diorite, gabbro and olivine gabbro (King, 1988)

Middle Brook Granite



ID:M

Massive, coarse grained, porphyritic granite / granodiorite. (Blackwood, 1977)

Belleoram Granite



ID:Bf

Red felsite and fine-grained granite, developed locally at the pluton margin (O'Brien, 1998)



ID:BR

Red Head Porphyry: Pink to brown quartz-feldspar porphyry (O'Brien, 1998)

ID:Bg

Grey to pink, medium- and fine-grained, equigranular granite containing many small, dark grey and green to black inclusions (O'Brien, 1998)

Ackley Granite Suite

ID:Ad

Variably deformed and metamorphosed, medium to coarse grained, hornblende - biotite granodiorite , diorite, and biotite granite. (comp. Dickson, 1983; comp. O'Brien et al., 1984b)

Meta

ID:AM

Undivided massive biotite granite (Dickson, 1983; comp. Lynch et al., 2009)

Tolt

D:At

Early to Late Devonian. Massive, porphyritic, coarse grained, biotite granite (Dickson, 1983; comp. Lynch et al., 2009)

*Hungry Grove-
Rencontre Lake
granites*

ID:AHed

Quartz-feldspar porphyritic dike (O'Brien and Dickson, 1986)

ID:AHea

Fine grained, pink granite and aplite (comp. Dickson, 1987)

ID:AHe

Pink and red, massive, coarse-grained, leucocratic, equigranular, biotite granite and minor fine-grained, quartz-feldspar-porphyritic, biotite granite (Dickson, 1987)

ID:AHp

Pink, massive, coarse-grained, leucocratic, K-feldspar-porphyritic, biotite granite (Dickson, 1987)

ID:AH

Pink, massive, coarse-grained and locally medium-grained, leucocratic, K-feldspar porphyritic or equigranular, biotite granite (comp. O'Brien, 1998; comp. Dickson, 1987)

*Mount Sylvester
Granite*

ID:AMS

Coarse-grained, K-feldspar-porphyritic, biotite granite (Dickson, 2000a; Dickson, 1983)

Kepenkeck Granite

ID:AKm

Biotite-muscovite granite (Dickson, 1983)

ID:AKp

Massive, porphyritic, medium to coarse grained, biotite granite (Dickson, 1983)

ID:AK

Massive, medium to coarse grained, k-feldspar porphyritic biotite +/- muscovite granite (Dickson, 2000a)

Koskaecodde pluton

eD:AK

Early Devonian. Pink to grey, massive, coarse-grained, K-feldspar-porphyritic, biotite granite; minor layered, massive, medium-grained, equigranular, biotite +/- muscovite granite (comp. Dickson, 1987)

Kaegudeck diabase

D:Ae

Early to Middle Devonian. Green to grey, generally massive, medium- to fine-grained, mainly equigranular to locally plagioclase-porphyritic, chloritized diabase sills and dykes (Dickson, 2000a)

ID:A

Pink, massive, coarse-grained and locally medium-grained, leucocratic, K-feldspar porphyritic or equigranular granite (comp. O'Brien, 1998; comp. Dickson, 1987)

*Great Bay de l'Eau
Formation*

ID:Gv

Grey mafic sills and flows (O'Brien, 1998)

ID:Gsh

Hornfels derived from conglomerate and shale (O'Brien, 1998)

ID:Gss

Red, purple and buff, pebble to boulder conglomerate; minor green conglomerate and red and black shale (O'Brien, 1998)

Middle to Late Devonian

D:h

Silicified hydrothermal breccia and cataclastic rocks derived from various country rocks along the Cape Ray fault zone, including the Strawberry granite (comp. Dube and Lauziere, 1997)

D:qs

Quartz-sanidine porphyry dykes with no ferromagnesian minerals (Chorlton and Knight, 1983)

Strawberry granite (Newfoundland)

D:Sm

Mylonite formed by strike-slip motion in the Cape Ray fault zone from rocks of the Strawberry granite (Dube and Lauziere, 1996c)

D:S

Coarse-grained, pink to red, biotite- and/or muscovite-bearing feldsparphyric granite (Hall and van Staal, 1999)

Grey River Point granite

D:GR

Fine- to medium-grained, locally pegmatitic, hornblende-biotite, granite (comp. Dickson et al., 1996a)

Newport Granite

D:Np

Massive, coarse grained, porphyritic granite. (O'Brien et al., 1987)

D:Ng

Massive medium to coarse grained gabbro. (O'Brien et al., 1987)

D:Na

Foliated and locally massive, fine to medium grained, muscovite - biotite adamellite (O'Brien et al., 1987)

D:N

Massive, coarse-grained, megacrystic, biotite granite (Jayasinghe, 1978)

Middle Devonian

Big Round Pond Granite

mD:BR

Massive, medium-grained, biotite granite (Jayasinghe, 1978)

Deadmans Bay Granite

mD:D

Massive, homogeneous, coarse-grained, porphyritic, biotite granite, characterized by ubiquitous microcline megacrysts (Williams et al., 1985)

Isle aux Morts Brook Granite

mD:I

Mainly coarse-grained, equigranular, locally megacrystic, alkali feldspar-rich leucogranite with minor muscovite; includes related fine-grained hypabyssal aplitic dykes (van Staal et al., 1996b)

Hunts Ponds Granite

mD:H

Foliated, equigranular, muscovite-biotite-garnet granite (O'Neill and Colman-Sadd, 1993)

Chetwynd Granite

mD:Cp

Microspherulitic, quartz-feldspar porphyry dykes (O'Brien, 1990b)

mD:Cc

Pink, fine- to medium-grained, equigranular biotite granite; minor porphyritic to subporphyritic granite (O'Brien, 1990b)

mD:C

Pink, fine- to medium-grained, equigranular biotite granite; minor porphyritic to subporphyritic granite; unseparated, microspherulitic, quartz-feldspar porphyry dykes (O'Brien, 1990b)

Early Devonian to Pennsylvanian

Terra Nova Granite

DB:Tx

Weakly foliated, coarse grained, equigranular to megacrystic granite (O'Brien et al., 1991)

DB:Tb

Pink brecciated granite (O'Brien et al., 1991)

DB:T

Massive to very weakly foliated, pink, medium to mainly coarse-grained, K-feldspar porphyritic to equigranular biotite+/- hornblende granite, rare aplite (comp. O'Brien et al., 1991)

Maccles Lake Granite

DB:ML

Mainly massive, medium to coarse grained, feldspar porphyritic or megacrystic biotite granite (comp. Blackwood et al., 1984; comp. O'Brien et al., 1991)

DB:cX

Red-brown, very thick-bedded, coarse-grained breccia containing imbricated slate clasts, derived from the Botwood/Indian Islands groups, and well-rounded, polymict pebbles and cobbles derived mainly from the Botwood/Indian Islands and Davidsville groups and amphibolite of the Great Bend Complex (comp. Dickson, 1996a)

DB:cg

Grey to buff, very thick-bedded, feldspathic sandstone, pebble and cobble conglomerate, red, brown and black shale; contains conspicuous clasts of black chert (comp. Dickson, 1996a)

Early to Late Devonian

Overflow Pond Granite



Coarse-grained, locally garnetiferous, two-mica granite (Evans et al., 1994a)



Diabase and diorite dikes containing euhedral plagioclase phenocrysts (King, 1988)



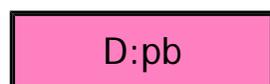
Fine to medium grained, massive gabbro and diorite (Blackwood et al., 1984)



Diorite and quartz diorite (O'Brien, 1998)



Dark green, locally brown-weathering pyroxenite and gabbro (O'Brien, 1998)



Pink, buff and grey, medium grained granite and granodiorite (comp. O'Driscoll and O'Brien, 1990)



Grey-green, medium to fine grained diorite and diabase (comp. O'Driscoll and O'Brien, 1990)

Clarenville Granite



Pink to red, medium grained biotite granite (King, 1988)

Old Woman stock



Pink, medium- and coarse-grained, porphyritic biotite granite; minor aplite (O'Brien, 1998)

Bell Island Granite



Massive, medium-grained, grey to pink, microcline granite (Bostock et al., 1983a)

Berry Hills Granite



Massive, equigranular, pink, medium grained granite with minor aplite (O'Brien et al., 1984a)

Sall the Maid Granite



Pink to orange and grey, medium grained alaskitic granite, granodiorite, and minor diorite (O'Driscoll and Hussey, 1978)

Bar Haven Granite



Pink, buff and grey, medium-grained granite and granodiorite; grey to green, medium- to fine-grained diorite and diabase (O'Driscoll et al., 1995)

Pass Island Granite



Pink, medium- to coarse-grained, biotite-hornblende granite (O'Brien, 1998)

Ragged Islands Intrusive Suite



White, medium-grained quartz diorite ()



Buff to grey, medium-grained granodiorite (comp. O'Driscoll et al., 1995)

Red Island Granite

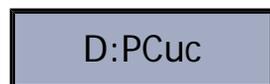


Pink, fine- to medium-grained, equigranular biotite granite and buff granodiorite (comp. O'Driscoll et al., 1995)



Black to dark-grey, fine- to medium-grained diorite and gabbro (comp. O'Driscoll et al., 1995)

Pools Cove Formation



Boulder conglomerate: buff to pale orange northeast of Pool's Cove and dark-weathering, deep red to grey to the southwest (comp. O'Brien, 1998)



Buff to pink and pale orange arkosic sandstone and pebble conglomerate (O'Brien, 1998)



Red, pebble and locally boulder conglomerate (O'Brien, 1998)



Red, arkosic sandstone, containing thin beds of pebble conglomerate; red conglomerate, extensively developed in the lower half of the unit northwest of Pool's Cove (comp. O'Brien, 1998)

Cinq Isles Formation



Red micaceous sandstone, red and grey quartz-pebble conglomerate, red shale, and red and grey limestone (O'Brien, 1998)

Rocky Ridge Formation



Riebeckite-bearing flow-banded rhyolite and ignimbrite (Strong et al., 1978a)

Grand Beach Complex



Undivided porphyritic granite, ash flow tuffs, agglomerates, laharic breccias (O'Brien et al., 1977a)

Unnamed Devonian Intrusions



Medium-grained diorite, quartz diorite, gabbro and pyroxenite (O'Driscoll et al., 1995)

Early to Middle Devonian

Petites Granite



Pink to red, coarse-grained, equigranular, potassium feldspar-rich granite (Williams et al., 1985)

Ocean Pond Granite



Partly synmetamorphic, leucocratic, garnetiferous, muscovite-tourmaline granite (O'Neill, 1991a)

Early Devonian

Indian Point granite

eD:P

Red to orange, medium-grained, pink to orange, leucocratic biotite granite (O'Brien, 1998)

Red Island Road formation

eD:R

Red, dominantly clast-supported, cobble conglomerate, interpreted to have been deposited in a high gradient, gravel-bed, river system; clasts are mainly rhyolites and quartzofeldspathic metamorphic rocks; Emsian age based on contained plant fragments and associated palynomorphs (comp. Williams et al., 2001)

eD:cm

Muscovite granite (O'Neill, 1991a)

eD:c

Feldspar porphyry and tonalitic to granitic intrusions (comp. Currie and Williams, 1995)

Loon Bay batholith

eD:Bq

Marginal phase of biotite tonalite to granodiorite with prominent anhedral quartz (comp. Currie and Williams, 1995)

eD:Bt

Massive, medium-grained tonalite to granodiorite and foliated biotite-hornblende diorite (comp. Currie and Williams, 1995)

Rocky Bottom Tonalite

eD:YT

Grey, medium-grained, equigranular, biotite tonalite, containing minor amphibole (Williams et al., 1985)

Rocky Bay Pluton

eD:YP

Massive to foliated, equigranular to biotite-poikilitic, biotite-hornblende tonalite (Williams et al., 1985)

Frederickton Pluton

eD:F

Medium-grained, weakly foliated, biotite-hornblende tonalite (Williams et al., 1985)

*Island Pond pluton
(Gander Bay)*

eD:I

Massive to foliated, biotite-muscovite and muscovite-garnet granite and aplite (comp. Currie, 1995b)

Ragged Harbour Pluton

eD:H

Foliated to schistose, medium-grained, equigranular to porphyritic, biotite-muscovite granite; locally garnetiferous leucogranite (Williams et al., 1985)

Aspen Cove Pluton

eD:A

Massive to foliated, medium-grained, biotite+/-muscovite granodiorite and granite; locally garnetiferous in leucocratic phases (Williams et al., 1985)

*Third Berry Hill Pond
granite*

eD:TI

Fine- to medium-grained, garnetiferous leucogranite, muscovite greater than biotite; locally contains quartz and feldspar phenocrysts (Blackwood and Green, 1983)

eD:Tp

Coarse-grained, feldspar-porphyritic, biotite granite (Blackwood and Green, 1983)

Middle Ridge Granite

eD:MI

Fine-grained to pegmatitic, muscovite-biotite, garnetiferous leucogranite (Blackwood and Green, 1983)

eD:Mp

Coarse-grained, feldspar-porphyritic, muscovite-biotite granite containing rare garnet (Blackwood and Green, 1983)

eD:Me

Medium- to coarse-grained, equigranular, muscovite-biotite granite containing minor garnet (comp. Blackwood and Green, 1983)

eD:M

Fine-, coarse-grained or pegmatitic, equigranular or porphyritic, garnetiferous muscovite-biotite granite (comp. Blackwood and Green, 1983)

*Long Island
Granodiorite*

eD:L

Hornblende-biotite granodiorite, biotite granite, felsite, and quartz-feldspar porphyry (O'Brien, 1991b)

Late Silurian to Mississippian

Ironbound monzonite

S-C:lg

Medium- to coarse-grained porphyritic granite, unfoliated to foliated (comp. Chorlton, 1980b)

S-C:lm

Medium- to coarse-grained, porphyritic grey monzonite (comp. Chorlton, 1980b)

Late Silurian to Late Devonian

Ramea Complex

SD:Rmd

Massive, medium-grained, diabase plug and dykes (Dickson et al., 1996a)

SD:Rmy

Massive, medium-grained, biotite-hornblende gabbro and quartz diorite (Dickson et al., 1996a)

SD:Rdge

Late Silurian to Early Devonian. Massive to weakly cleaved, pink, equigranular, leucocratic, biotite granite (Dickson et al., 1996a)

SD:Rdgd

Late Silurian to Early Devonian. Grey, massive to sheared, medium-grained, equigranular, biotite-hornblende granodiorite (Dickson et al., 1996a)

SD:Rdgs

Late Silurian to Early Devonian. Pink, fractured and sheared, medium- to medium-coarse-grained, equigranular to potassium-feldspar porphyritic, biotite granite (Dickson et al., 1996a)

SD:Rdgg	Late Silurian to Early Devonian. Massive, medium coarse-grained, potassium-feldspar porphyritic, biotite granite (Dickson et al., 1996a)
SD:Rdgm	Late Silurian to Early Devonian. Black and pink, foliated, medium-grained, metamorphosed, potassium-feldspar porphyroclastic, biotite granite (Dickson et al., 1996a)
SD:Rdggf	Late Silurian to Early Devonian. Black, fine- to very fine-grained, feldspar porphyroclastic, mylonitic granite (Dickson et al., 1996a)
SD:Rdgc	Late Silurian to Early Devonian. Black and pink, medium- to coarse-grained, potassium-feldspar porphyroclastic, strongly foliated to mylonitic, biotite granite (Dickson et al., 1996a)
SD:Rdm	Late Silurian to Early Devonian. Medium- to coarse-grained, massive to foliated metagabbro and diabase (Dickson et al., 1996a)
D:zb	Middle to Late Devonian. Basalt dykes (Chorlton and Knight, 1983)
SD:zd	Fresh diabase dykes (Chorlton and Knight, 1983)
SD:zh	Fine-grained, phaneritic mafic dykes containing visible biotite and hornblende (Chorlton and Knight, 1983)
SD:fd	Felsic dykes, including plagioclase- and ferromagnesian-porphyritic dacite dykes, and quartz- and feldspar-porphyritic leucocratic dykes (Chorlton and Knight, 1983)
SD:pr	Pegmatite (van Staal et al., 1996b)

SD:ray	Rhyolite porphyry dykes (Chorlton, 1980a)
SD:rac	Coarse-grained, equigranular, pink biotite granite with rapakivi phases (Chorlton, 1980a)
SD:pyg	Porphyritic granite, granodiorite (Chorlton, 1980a)
SD:pyd	Monzodiorite, quartz diorite (Chorlton, 1980a)
SD:py	Porphyritic granite, granodiorite, monzodiorite and quartz diorite (comp. Chorlton, 1980a)
SD:mc	Quartz gabbro, diabase (Chorlton, 1980a)
SD:pf	Fine-grained, pink, feldsparphyric, locally amphibole-bearing granite (van Staal et al., 1996b)
SD:fst	Tuffisite dyke containing felsic fragments (Chorlton and Knight, 1983)
SD:fsm	Medium-grained, pink, biotite- and muscovite-bearing leucogranite, local pegmatite (Chorlton and Knight, 1983)
SD:fsf	Fine-grained, pink biotite- and muscovite-bearing, two-feldspar leucogranite (comp. Chorlton and Knight, 1983)
SD:fs	Fine- and medium-grained, pink biotite- and muscovite-bearing, two-feldspar leucogranite; local pegmatite and a single exposure of a tuffisite dyke (comp. Chorlton and Knight, 1983)
<i>Piccaire granite</i>	
SD:PI	Pink, equigranular, medium-grained, biotite granite (comp. Colman-Sadd et al., 1979)

SD:qv

Quartz veins (Colman-Sadd et al., 1979)

Late Silurian to Middle Devonian*Barasway Point
gabbro*

SD:BY

Dark green to black, medium- to coarse-grained, locally foliated, hornblende gabbro (containing pink feldspars in places); minor diorite and intrusion breccia; unseparated diabase dykes (O'Brien, 1990b)

SD:rh

Grey to pink, brecciated and hematized, plagioclase porphyritic rhyolite (Dickson, 1990a)

SD:mu

Massive, medium-grained, muscovite granite and felsite (O'Brien and Dickson, 1986)

SD:bn

Massive to strongly foliated, buff to pink, medium-grained, equigranular to quartz-porphyritic, biotite granite (Dickson et al., 1990)

SD:b

Diffusely banded, fine- to medium-grained, muscovite-biotite granite containing abundant screens and xenoliths of quartz-biotite and graphitic schist, psammite, quartzite, amphibolite and locally gabbro and peridotite; some of the psammite is derived from the Salmon River Dam Formation of the Baie d'Espoir Group (Colman-Sadd and Swinden, 1989)

SD:gpb

Foliated, garnetiferous, muscovite-biotite granite (Jayasinghe, 1978)

SD:gpm

Foliated, garnetiferous, muscovite leucogranite (Jayasinghe, 1978)

SD:gp

Dykes, sills and stocks of white, equigranular, garnetiferous, muscovite and muscovite-biotite granite, fine- to medium-grained or pegmatitic, locally foliated (comp. Colman-Sadd and O'Driscoll, 1979; comp. Blackwood, 1985)

Cochrane Pond granite

SD:CP

Massive to weakly foliated, fine- to medium-grained, equigranular, muscovite-biotite granite (O'Brien and Dickson, 1986)

*Missing Island
Granodiorite*

SD:MI

Grey, medium-grained, equigranular, biotite granodiorite, containing accessory hornblende; associated aplite dykes contain muscovite and garnet (Williams et al., 1985)

*Matthews Pond
Granodiorite*

SD:MP

Grey, medium-grained, equigranular, biotite-muscovite granodiorite; associated aplite dykes contain muscovite and garnet (Williams et al., 1985)

Dolland Bight granite

SD:DB

White, equigranular, garnetiferous, muscovite and muscovite-biotite granite, commonly pegmatitic, locally foliated; occurs as sheeted sills within the Little Passage Gneiss (comp. various sources)

North West Brook Complex

SD:Xd

Pink, extensively fractured, equigranular biotite-muscovite granite, in which biotite is mostly altered to chlorite and feldspar has undergone hematitic alteration (comp. Colman-Sadd and O'Driscoll, 1979)

SD:Xm

Foliated, pink, medium-grained, equigranular muscovite granite (comp. Colman-Sadd et al., 1979)

SD:Xlfb	Pink, foliated, fine-grained, equigranular, biotite granite (Dickson, 1987)
SD:Xlfm	Pink to buff, foliated, medium-grained, equigranular and K-feldspar-porphyritic, biotite +/- muscovite granite (Dickson, 1987)
SD:Xlp	Pink to buff, foliated, coarse-grained, equigranular and K-feldspar-porphyritic, biotite granite (cut by dykes of subunit lfm) (Dickson, 1987)
SD:Xdm	Pink to buff, foliated, medium-grained, equigranular, biotite +/- muscovite granite (Dickson, 1987)
SD:Xdb	Buff to grey, foliated, medium-grained, equigranular, biotite granodiorite (Dickson, 1987)
SD:X	Pink, buff and grey, weakly foliated, equigranular to potassium porphyritic, biotite, biotite-muscovite and muscovite granite and granodiorite; cut by pegmatite and aplite veins containing muscovite, garnet and tourmaline (comp. Dickson, 1987)
North Bay Granite Suite	
SD:Npg	Garnet-tourmaline-muscovite pegmatite (Colman-Sadd, 1987)
SD:Nga	Equigranular, medium-grained, white, buff or pink, muscovite-garnet granite (comp. Colman-Sadd, 1987)
SD:Nb	Pink, biotite or biotite-muscovite, equigranular, medium-grained granite (Colman-Sadd and Swinden, 1984)
SD:Neq	Equigranular to slightly feldsparphyric, medium-grained, biotite granite and granodiorite (comp. Colman-Sadd and Swinden, 1989)

SD:Nc	Pink to buff, massive to weakly foliated, coarse-grained, potassium feldspar porphyritic, biotite granite (Dickson, 1990b)
SD:Naf	Pink to buff, weakly foliated, medium-grained, equigranular to feldspar porphyritic, muscovite-biotite granite (Dickson, 1990d)
SD:Nab	Buff, massive, medium-grained, equigranular, muscovite-biotite granite (Dickson, 1990c)
SD:Nap	Pink to orange, foliated, medium-grained, equigranular, muscovite-biotite granite (Dickson, 1990b)
SD:Ndm	Variably deformed, buff to pink, fine-grained, equigranular to locally porphyritic, biotite-muscovite granodiorite and granite (Dickson et al., 1990)
SD:Ndbm	Mylonitic, pink and grey, medium-grained, equigranular, biotite granodiorite; contains minor unseparated tonalite (comp. Dickson et al., 1990)
SD:Ndbf	Deformed, pink and grey, medium-grained, equigranular, biotite granodiorite; contains minor unseparated tonalite (comp. Dickson et al., 1990)
SD:Ndb	Variably deformed and mylonitic, pink and grey, medium-grained, equigranular, biotite granodiorite; contains minor unseparated tonalite (Dickson et al., 1990)
SD:Ntg	Medium-grained, grey, banded granodiorite (Kean, 1983)
SD:Ntt	Variably deformed, dark grey, medium- to coarse-grained, equigranular, hornblende-biotite tonalite; contains minor unseparated potassium-feldspar-porphyritic, biotite-rich granodiorite (Dickson et al., 1990)

SD:Nf	Pink to buff, strongly foliated, coarse-grained, microcline porphyritic, biotite granite (Dickson, 1990b)
<i>Buck Lake granite</i>	
SD:NKd	Fine- to coarse-grained, biotite quartz-diorite and quartz-gabbro; minor granite (Kean, 1983)
SD:NKy	Dominantly granitic blastomylonite and mylonite, including screens of injection gneiss and amphibolite, possibly some younger granite (Chorlton, 1980b)
SD:NKmmg	Medium-grained, pink to red, equigranular, biotite-muscovite, garnetiferous granite (Kean, 1983)
SD:NKmm	Massive to weakly foliated, buff and pale pink, fine- to medium-grained, equigranular to subporphyritic, biotite-muscovite granite; includes minor unseparated tourmaline-muscovite-garnet granite pegmatite (Dickson et al., 1990)
SD:NKmc	Weakly foliated, buff to light grey, medium- to coarse-grained, subporphyritic, variably porphyritic and rarely equigranular, biotite-muscovite granite (Dickson et al., 1990)
SD:NKms	Medium-grained, grey and pink, biotite-muscovite granite (Kean, 1983)
SD:NKbps	Medium- to coarse-grained, potassium-feldspar and locally plagioclase porphyritic, grey and minor pink, biotite granite deformed in southern boundary fault zone (comp. Kean, 1983)
SD:NKbp	Medium- to coarse-grained, potassium-feldspar and locally plagioclase porphyritic, grey and minor pink, biotite granite (Kean, 1983)

SD:NKbe	Medium- to coarse-grained, porphyritic to equigranular, grey, biotite-hornblende granodiorite and minor granite (Kean, 1983)
SD:NKbm	Mylonitic, grey and very pale pink, medium- to coarse-grained, potassium-feldspar porphyritic, biotite +/- titanite granodiorite and subordinate granite (comp. Dickson et al., 1990)
SD:NKbfr	Coarse-grained, potassium-feldspar porphyritic, biotite granite together with screens of paragneiss and metasedimentary rocks (Dickson et al., 1990)
SD:NKbfgc	Coarse-grained, potassium-feldspar porphyritic, biotite granodiorite together with cognate xenoliths of diorite (Dickson et al., 1990)
SD:NKbfg	Unseparated coarse-grained, porphyritic and equigranular, biotite granodiorite (Dickson et al., 1990)
SD:NKbf	Foliated, grey and very pale pink, medium- to coarse-grained, potassium-feldspar porphyritic, biotite +/- titanite granodiorite and subordinate granite (comp. Dickson et al., 1990)
SD:NKb	Medium- to coarse-grained, potassium-feldspar porphyritic to locally equigranular, biotite granite and biotite-hornblende granodiorite; massive, variably foliated or mylonitic (comp. Kean, 1983; comp. Dickson et al., 1990)
<i>Upper Salmon Road Granite</i>	
SD:NUp	Grey to pink, massive to weakly foliated, potassium feldspar porphyritic, biotite granite (Dickson, 1990c)
SD:NUe	Grey to pink, massive to weakly foliated, equigranular, biotite granite (comp. Colman-Sadd and Swinden, 1989)



SD:NU

Grey to pink, massive to weakly foliated, equigranular to potassium feldspar porphyritic, biotite granite (comp. Dickson, 1990c)

D'Espoir Lake Granite



SD:NL

Pink, massive to weakly foliated, medium-grained, potassium feldspar porphyritic, muscovite-biotite +/- garnet granite (Dickson, 1990b)

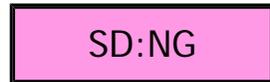
Hughes Brook Granite



SD:NH

Pink, massive to weakly foliated, medium-grained, potassium feldspar porphyritic, muscovite-biotite +/- garnet granite (Dickson, 1990b)

Morgan Brook Granite



SD:NG

Pink, massive to weakly foliated, medium-grained, potassium-feldspar porphyritic, muscovite-biotite +/- garnet granite (Dickson, 1990b)

Dolland Pond Granite



SD:NP

Pink, massive to weakly foliated, medium-grained, potassium-feldspar porphyritic, muscovite-biotite +/- garnet granite (Dickson, 1990b)

Facheux Bay East Granite



SD:NFB

Pink to buff, massive to weakly foliated, coarse-grained, potassium feldspar porphyritic, biotite granite (Dickson, 1990b)

Wolf Mountain Granite



SD:NWay

Mylonitized, pink to red, coarse-grained, potassium-feldspar porphyritic, muscovite-biotite granite (comp. Dickson, 1990a; comp. Dickson, 1990c)

SD:NWa

Pink to red, massive to weakly foliated, coarse-grained, potassium-feldspar porphyritic, muscovite-biotite granite, locally altered, sheared or mylonitic, and cut by quartz veins (comp. Dickson, 1990a; comp. Dickson, 1990c)

SD:NWgy

Mylonitized, pink to buff, coarse-grained, potassium-feldspar porphyritic, muscovite-biotite granite (comp. Dickson, 1990c)

SD:NWg

Pink to buff, massive to weakly foliated, coarse-grained, potassium-feldspar porphyritic, muscovite-biotite granite; locally mylonitic north of Wolf Mountain (comp. Dickson, 1990c)

Dolland Brook Granite

SD:NDL

Pink to buff, massive to weakly foliated, coarse-grained, potassium-feldspar porphyritic, biotite granite (Dickson, 1990b)

Wolf Lake Granite

SD:NO

White to buff, massive, coarse-grained, equigranular, garnet-biotite-muscovite granite (Dickson, 1990d)

Meelpaeg Lake Granite

SD:NMs

Equigranular, medium- to fine-grained, pink syenite or altered gabbro (Colman-Sadd, 1987)

SD:NMmy

Mylonitized, equigranular, medium-grained, grey or buff, biotite-muscovite or biotite granite and granodiorite (comp. Colman-Sadd, 1987)

SD:NMm

Weakly foliated to massive, equigranular, medium-grained, grey or buff, biotite-muscovite or biotite granite and granodiorite; locally mylonitized (comp. Colman-Sadd, 1987; comp. Dickson, 1990c)

SD:NMb

Porphyritic or equigranular, medium-grained, grey or pink, biotite granite and granodiorite, locally containing muscovite (comp. Colman-Sadd, 1987)

Bottom Brook Granite

SD:NBB

Grey to orange, weakly foliated to massive, feldspar porphyritic, biotite +/- muscovite granite and granodiorite (Dickson, 1990b)

East Bay Granite

SD:NE

Grey to buff, weakly foliated to massive, medium-grained, equigranular, biotite +/- muscovite granite and granodiorite; commonly contains screens of migmatite (Dickson, 1990b)

Wolf Lake North Granodiorite

SD:NN

Grey to buff, foliated, medium-grained, equigranular to feldspar porphyritic, biotite granodiorite; commonly contains screens of migmatite (Dickson, 1990c)

D'Espoir Brook Granite

SD:NS

Pink to white, strongly foliated to massive, medium- to coarse-grained, equigranular, garnet-biotite-muscovite granite; locally contains abundant granite pegmatite (Dickson, 1990b)

Late Silurian to Early Devonian

Clam Bank Group

SD:C

Cross-bedded, red sandstone and pebble conglomerate, grey sandstone and fossiliferous limy shale in central part of sequence (Williams, 1985a)

Ten Mile Lake formation

SD:M

Purple to crimson shale interbedded with thin, pink sandstone beds and a few thick, pink to grey-green sandstone beds (comp. Currie and Williams, 1995)

Cape Freels Granite



Foliated to massive, coarse-grained, megacrystic, biotite granite (Jayasinghe, 1978)

La Poile Granite



Pegmatite (Chorlton, 1980a)



Aplite (Chorlton, 1980a)



Mainly white, megacrystic alkali feldspar, biotite granite and granodiorite (comp. van Staal et al., 1996b)



Mainly white, megacrystic alkali feldspar, biotite granite and granodiorite with associated aplite and pegmatite phases; minor sheets and pegmatites intrude the Rose Blanche Granite (comp. van Staal et al., 1996b; comp. Chorlton, 1980a)



Well foliated muscovite-bearing granite, with or without biotite and/or garnet (Chorlton, 1980b)



Well foliated granodiorite and tonalite (Chorlton, 1980b)



Well foliated granodiorite, tonalite and muscovite-bearing granite; the latter may or may not contain biotite and/or garnet (comp. Chorlton, 1980b)



Medium- to fine-grained equigranular leucogranite; contains minor muscovite and garnet (Chorlton, 1980a)

Peter Snout granite



Garnetiferous muscovite granite (Chorlton, 1980b)

SD:PS

Massive, fine- to medium-grained, equigranular, biotite +/- muscovite granite; locally garnetiferous (comp. O'Brien and Dickson, 1986; comp. O'Brien, 1982)

Piglet Brook rhyolite

SD:PB

Pink to cream rhyolite (Chorlton, 1980b)

Rose Blanche Granite

SD:RBg

Garnetiferous two-mica granite (Chorlton, 1980a)

SD:RBt

Tonalite, granodiorite (Chorlton, 1980a)

Hawks Nest Pond Porphyry

SD:HN

Pink to red, fine-grained, locally foliated, biotite-bearing, quartz-feldspar porphyry containing pale green, saussuritised plagioclase (O'Brien, 1990b)

Rose Blanche Granite

SD:RB

Mainly white, rarely pink, foliated, equigranular, biotite-muscovite granite, locally garnet-bearing, and tonalite and granodiorite; contacts with country rock generally gradational and characterized by abundant migmatites; elongated xenoliths or enclaves of country rock common (comp. van Staal et al., 1996b; comp. Chorlton, 1980a)

Otter Point Granite

SD:OP

Pale pink to buff, coarse-grained, potassium-feldspar porphyritic, locally foliated, biotite-bearing, megacrystic granite; minor granite pegmatite (O'Brien, 1990b)

SD:ad

Fine-grained hypabyssal aplitic dykes (comp. van Staal et al., 1996a)

Late Silurian

McCallum Granite

IS:My

Mylonitized, equigranular to feldspar porphyritic, biotite granite to granodiorite (comp. Blackwood, 1985)

IS:M

Fine- to coarse-grained, equigranular to feldspar porphyritic, biotite granite to granodiorite that is commonly banded (Blackwood, 1985)

Gaultois Granite

IS:Gm

Equigranular gabbro (comp. Colman-Sadd, 1976)

IS:Ggy

Mylonitic granitoid derived mainly from the Gaultois Granite (comp. Dickson et al., 1996b)

IS:Ggd

Foliated, pink, coarse-grained, equigranular, biotite granite dyke (Dickson et al., 1996b)

IS:Ggm

Strongly foliated to sheared, white and black, medium-grained, feldspar porphyritic, biotite granite (Dickson et al., 1996b)

IS:Ggm

Well-foliated, coarse-grained, biotite granite and granodiorite, containing prominent pink, potassium-feldspar megacrysts; includes equigranular quartz-dioritic and dioritic inclusions; commonly cut by pink pegmatite and aplite veins (comp. Colman-Sadd and O'Driscoll, 1979)

IS:Ggt

Well-foliated or very rarely massive, medium- to coarse-grained, equigranular, biotite tonalite, quartz-diorite and diorite (comp. Colman-Sadd, 1976)

Seal Nest Cove tonalite

IS:S

Fine-grained, biotite tonalite, containing plagioclase phenocrysts (Colman-Sadd et al., 1979)

IS:i	Dark green to black (locally containing pink feldspars), medium- to coarse-grained gabbro (O'Brien and O'Brien, 1989)
Early Silurian to Late Devonian	
SD:fl	Unseparated, foliated granite and metasedimentary rocks (in approximately equal proportions) (O'Brien et al., 1991)
SD:mx	Mainly massive, medium to coarse grained, feldspar porphyritic or megacrystic biotite granite (Blackwood et al., 1984)
SD:dd	Diabase dykes (O'Brien et al., 1987)
SD:po	Granite porphyry (O'Brien et al., 1987)
SD:o	Granite and quartz-feldspar porphyry (Kean et al., 1994b)
SD:gr	Medium- to coarse-grained biotite granite (Evans et al., 1994a)
SD:gaq	Medium- to coarse-grained quartz monzonite (Evans et al., 1994a)
SD:gag	Medium- to coarse-grained gabbro (Evans et al., 1994a)
SD:ga	Gabbro, diorite and quartz monzonite (comp. Evans et al., 1994a)
SD:xg	Medium- to coarse-grained, undeformed, pink, equigranular, locally potassium-feldspar megacrystic, biotite granite (Kean, 1983)

SD:gd	Gabbro, diorite and diabase (Swinden and Sacks, 1996)
SD:bm	Mainly biotite+/- muscovite granite and granodiorite, locally contains garnet, tourmaline, or hornblende. (Blackwood et al., 1984)
SD:qm	Mainly foliated, fine to medium grained biotite-muscovite-garnet quartz monzonite. (Blackwood et al., 1984)
SD:mf	Foliated, grey or pink, equigranular sericitic granite, cut by vuggy quartz veins and containing small lenses of massive pyrite (comp. Colman-Sadd, 1989)
SD:rs	Red and grey, micaceous sandstone and conglomerate (possibly equivalent to the Botwood Group) (comp. Evans et al., 1994a)
<i>Dover Fault Granite</i>	
SD:DFIm	Foliated fine to medium grained, muscovite-biotite, garnetiferous leucogranite; locally contains unseparated metasedimentary rocks (<30% of exposure) and megacrystic granite. (comp. O'Brien et al., 1991)
SD:DFImp	Pink muscovite-biotite granite (O'Brien et al., 1991)
SD:DFx	Foliated, pink, grey and white, k-feldspar megacrystic biotite granite, locally intruded by minor unseparated leucogranite. Contains minor metasedimentary rocks north of Maccles Lake. (comp. O'Brien et al., 1991)
SD:DFm	Mylonitized zone of the otherwise medium grained equigranular Dover Fault Granite. (comp. O'Brien et al., 1987)
SD:DFe	Foliated, locally mylonitized, medium grained, equigranular granite. (O'Brien et al., 1987)

SD:DFa

Foliated and locally massive, fine to medium grained, garnetiferous adamellite. (O'Brien et al., 1987)

SD:DFf

Foliated, fine grained, porphyritic granite and granodiorite. (O'Brien et al., 1987)

SD:DFp

Foliated, medium grained, porphyritic granite and granodiorite. (O'Brien et al., 1987)

SD:DF

Foliated, fine to medium grained granitoid, ranging in composition from granite to adamellite to granodiorite locally mylonitized, garnetiferous or porphyritic. (comp. O'Brien et al., 1987)

Dawes Pond granite

SD:DP

Grey to pink, medium- to fine-grained granite, quartz-monzonite and granodiorite (Dean, 1977d)

Fogo batholith

SD:Fgy

Granitic dykes (Baird, 1958)

SD:Fgp

Fine-grained, quartz porphyry dykes (Baird, 1958)

SD:Fga

Fine-grained alaskitic granite (Baird, 1958)

SD:Fgg

Pink, medium-grained, amphibole granite to granodiorite; includes varying amounts of coarse granite and diorite (comp. Currie, 1997b; comp. Baird, 1958)

SD:Fmdy

Intermediate and mafic dykes (comp. Baird, 1958)

SD:Fmd	Diorite and lesser gabbro, locally layered; quartz diorite, monzodiorite, agmatite and hybrid rocks (comp. Currie, 1997b; comp. Baird, 1958)
SD:Fmh	Hornblendite and clinopyroxenite; minor peridotite (comp. Baird, 1958)
 Gull Lake intrusive suite	
<i>Gales Brook granite</i>	
ID:GLGy	Late Devonian. Biotite +/- muscovite microgranite dykes (Smyth and Schillereff, 1981a)
ID:GLGa	Late Devonian. Chlorite-altered granite (Smyth and Schillereff, 1981a)
ID:GLGp	Late Devonian. Biotite granite porphyry (Smyth and Schillereff, 1981a)
ID:GLGg	Late Devonian. Fine-grained biotite granite (Smyth and Schillereff, 1981a)
ID:GLGx	Late Devonian. Megacrystic biotite granite (Smyth and Schillereff, 1981a)
ID:GLG	Late Devonian. Megacrystic and fine-grained biotite granite, biotite granite porphyry, chlorite-altered granite, and biotite +/- muscovite microgranite dykes (comp. Smyth and Schillereff, 1981a)
SD:GLm	Gabbro, diabase and intrusion breccia (Smyth and Schillereff, 1981a)
SD:GLg	Pretectonic, massive to foliated, biotite granodiorite to tonalite (comp. Smyth and Schillereff, 1981a)

Black Cove Gabbro

SD:BC

Massive to weakly foliated, fine- to coarse-grained, hornblende metagabbro and hornblendite (Dickson et al., 1996b)

Early Silurian to Middle Devonian

SD:rr

Medium- to coarse-grained, massive, biotite gabbronorite (Kean, 1983)

Long Pond diorite

SD:LP

Grey, medium-grained, equigranular, hornblende-biotite diorite (comp. Colman-Sadd, 1980)

SD:d

Metamorphosed diorite (comp. Dickson, 2000a)

Steel Pond gabbro

SD:SP

Equigranular, medium-grained, hornblende and hornblende-biotite gabbro, diorite and minor granodiorite (Colman-Sadd and Swinden, 1989)

*Round Pond
Gabbronorite*

SD:Uq

Grey, medium-grained, equigranular, hornblende granodiorite (comp. Colman-Sadd, 1980)

SD:Um

Equigranular, medium-grained, hornblende and hornblende-biotite gabbro and diorite (Colman-Sadd and Swinden, 1989)

SD:Uu

Medium-grained, equigranular, olivine gabbronorite (comp. Colman-Sadd, 1980)

Redcross Lake Intrusion

SD:RCt

Troctolite and olivine gabbro (Kean, 1982)

SD:RCp

Medium-grained, dark green pyroxenite and gabbro (Colman-Sadd, 1987)

SD:RCd

Medium-grained, grey gabbro and/or diorite, cut by veins of gabbroic and granitic pegmatite (Colman-Sadd, 1987)

SD:rg

Medium-grained, biotite granite (Kean, 1982)

SD:wg

Equigranular, medium-grained, white, muscovite-biotite granite and quartz-feldspar porphyry (Colman-Sadd, 1987)

Wilding Lake granite

SD:WLu

Grey or pink, unfoliated, biotite granite (Colman-Sadd, 1987)

SD:WLP

Grey, foliated, medium-grained, porphyritic biotite granite, associated with garnet-muscovite aplite veins (Colman-Sadd, 1987)

SD:WLe

Grey, foliated, medium-grained, equigranular biotite granite, associated with garnet-muscovite aplite veins (Colman-Sadd, 1987)

Early Silurian to Early Devonian

SD:tp

Uralitized and saussuritized gabbro dykes, possibly related to the Mount Peyton Intrusive Suite (comp. Currie, 1995a)

Bear Pond gabbro

SD:E

White, coarse-grained and black, medium-grained, hornblende gabbro and black diabase; gabbro locally displays a weak mineral alignment; possibly equivalent to gabbro 'mlc' of the Mount Peyton Intrusive Suite (Dickson, 1996a)

Mount Peyton Intrusive Suite

SD:Pggl

Pink, massive, leucocratic, fine- to medium-grained, locally miarolitic, equigranular, biotite +/- hornblende granite (Dickson, 1996b)

SD:Pggb	Pink to grey, fine-grained, equigranular, biotite granite (Dickson, 1996a)
SD:Pgr	Buff to grey, equigranular, hornblende-biotite granite and granodiorite; medium-grained in larger intrusions and fine- to medium-grained in dykes (comp. Dickson, 1996a)
SD:Pggm	Pink to buff, medium-grained, equigranular, leucocratic, muscovite-biotite granite, locally displaying a strong eutaxitic foliation; commonly contains xenoliths of migmatized sedimentary rock (Dickson, 1996a)
SD:Pmgm	Massive, medium-grained metagabbro (Dickson, 1996b)
SD:Pmg	Grey to black, equigranular, mainly fine- to medium-grained, biotite +/- hornblende +/- pyroxene gabbro (comp. Dickson, 1996b)
SD:Pmlc	Grey, medium- to coarse-grained, locally layered, hornblende-pyroxene gabbro; minor layered olivine gabbro adjacent to troctolite of subunit 'mlt' (Dickson, 1996b)
SD:Pmlt	Grey, medium- to coarse-grained, schlieric troctolite containing thin, discontinuous, leucocratic and melanocratic layers and lenses (Dickson, 1996a)
SD:Pmlg	Layered, medium- to coarse-grained, locally highly gossanous, olivine-rich gabbro, leucocratic olivine gabbro and minor anorthositic gabbro; cut by peridotite and clinopyroxenite pipes (Dickson, 1996a)
SD:mb	Foliated, medium-grained, hornblende gabbro (Jayasinghe, 1978)
<i>Business Cove Granite</i>	
SD:BU	Foliated, medium-grained, muscovite-biotite granite with minor garnet (Jayasinghe, 1978)

North Pond Granite

SD:NRm

Foliated, medium-grained, muscovite-biotite granite with minor garnet (Jayasinghe, 1978)

SD:NRp

Foliated (locally massive), medium-grained, porphyritic granite with minor garnet (Jayasinghe, 1978)

Wareham Granite

SD:W

Foliated (locally massive), coarse-grained, megacrystic, biotite granite (Jayasinghe, 1978)

Burgeo Intrusive Suite

SD:Gyu

Ultramylonite derived mainly from granitoids of the Burgeo Intrusive Suite (Dickson et al., 1996a)

SD:Gy

Fine- to medium-grained, granite protomylonite, mylonite and ultramylonite (Dickson et al., 1996a)

SD:Gmg

Weakly foliated to massive, medium- to fine-grained, equigranular, muscovite +/- biotite +/- garnet granite, and pink, porphyritic, biotite-poor granite (O'Brien and Dickson, 1986)

SD:Gmp

Fine- to medium-grained, equigranular to porphyritic biotite (+/- muscovite) granite (O'Brien and Tomlin, 1983)

SD:Gmf

Fine- to medium-grained, pink, equigranular, biotite (+/- rare muscovite) granite (O'Brien and Tomlin, 1983)

SD:Gmmy

Mylonitized, pink, medium-grained, equigranular or locally feldspar-porphyritic, biotite +/- muscovite granite (Dickson et al., 1996a)

SD:Gmm	Foliated to massive, pink, medium-grained, equigranular or locally feldspar-porphyritic, biotite +/- muscovite granite (comp. Dickson et al., 1996a; comp. O'Brien and Dickson, 1986)
SD:Gm	Weakly foliated or locally mylonitic, fine- to medium-grained, equigranular or porphyritic, biotite +/- muscovite granite (comp. Dickson et al., 1996a)
SD:Gbge	Weakly foliated, pink, coarse-grained, equigranular, alaskitic, biotite granite (comp. Dickson et al., 1996a)
SD:Gbgr	Grey, buff and pale pink, phenocryst-poor, potassium-feldspar porphyritic and subporphyritic granite; minor equigranular granite (O'Brien and O'Brien, 1989)
SD:Gbgf	Massive to weakly foliated, pink, coarse-grained, potassium-feldspar porphyritic, leucocratic, biotite granite (comp. Dickson et al., 1996a)
SD:Gbdk	Weakly to strongly foliated, buff, coarse-grained, potassium-feldspar porphyritic, biotite +/- hornblende granodiorite (Dickson et al., 1996a)
SD:Gbgsm	Fine- to medium-grained protomylonite, mylonite and ultramylonite, derived from coarse-grained, potassium-feldspar porphyritic, mesocratic, biotite granite (comp. Dickson et al., 1996a)
SD:Gbg sy	Mylonitic, pink, coarse-grained, potassium-feldspar porphyritic, mesocratic, biotite granite (comp. Dickson et al., 1996a)
SD:Gbg s	Massive to locally strongly foliated and sheared, pink and red, coarse-grained, potassium-feldspar porphyritic, mesocratic, biotite granite (comp. Dickson et al., 1996a)

SD:Gbg

Buff to black and white, locally pale pink, fine- to coarse-grained, potassium-feldspar porphyritic, biotite granite, containing septa of metamorphosed La Poile Group sedimentary rocks (O'Brien and O'Brien, 1989)

SD:Gbg

Massive to locally strongly foliated and sheared, buff or pink, mainly coarse-grained, potassium-feldspar porphyritic or equigranular, biotite granite (comp. Dickson et al., 1996a)

SD:Gbdx

Buff to black and white, coarse-grained, potassium-feldspar porphyritic, biotite-rich, hornblende-bearing granite and granodiorite, containing cognate xenoliths of diorite and gabbro; minor pink aplite, granite pegmatite and gabbro (O'Brien and O'Brien, 1989)

SD:Gbt

Foliated, grey, medium-grained, equigranular, biotite tonalite and granodiorite (Dickson et al., 1996a)

SD:Gbdp

Moderately to strongly foliated, buff to grey to black, coarsely potassium-feldspar and plagioclase porphyritic, biotite-rich +/- hornblende granodiorite, tonalite and granite (Dickson et al., 1996a)

Roti Point felsite

SD:RP

Buff to light pink, aphanitic to microporphyritic felsite; brecciated (tuffisitic) texture; marginal stockworks of quartz veins (O'Brien, 1990b)

Skull Hill Quartz Syenite

SD:Sq

Fine- to medium-grained quartz syenite and quartz monzonite (Evans et al., 1994b)

SD:Sg

Fine- to medium-grained diorite and gabbro (Evans et al., 1994b)

SD:S

Quartz syenite, quartz monzonite, diorite and gabbro (comp. Evans et al., 1994b)

Hodges Hill intrusive suite

SD:Hfp

Late Silurian to Early Devonian. Massive, coarse- to medium-grained, equigranular, pink, red and purple, one-feldspar (perthite), hornblende +/- pyroxene +/- biotite granite (Dickson, 2000c)

SD:Hft

Late Silurian to Early Devonian. Massive, fine-grained, equigranular, pink to red, two-feldspar biotite granite (Dickson, 2000c)

SD:Hfk

Late Silurian to Early Devonian. Massive, medium-grained, equigranular to K-feldspar-porphyritic, buff to pink, two-feldspar biotite +/- hornblende granodiorite and granite; minor tonalite (comp. Dickson, 2000c)

SD:Hf

Late Silurian to Early Devonian. Massive, fine- to coarse-grained, equigranular to K-feldspar-porphyritic, mainly pink or red, biotite granite, granodiorite and minor tonalite (comp. Dickson, 2000c)

eS:Hmu

Early Silurian. Medium-grained, equigranular, grey gabbro; medium-grained, leucocratic granodiorite; minor coarse-grained hornblende diorite; rare leucogranite veins; posttectonic relative to structures in the Exploits and Notre Dame subzones (comp. O'Brien, 2001b)

eS:Hmq

Early Silurian. Light grey to light greenish-grey, medium-grained diorite, quartz diorite and granodiorite (comp. Dean, 1977d)

eS:Hmdl

Early Silurian. Massive, medium-grained, equigranular, pyroxene-plagioclase gabbro containing steeply dipping layers of relatively pyroxene-rich and pyroxene-poor gabbro (Dickson, 2000c)

eS:Hmd

Early Silurian. Massive, fine- to medium-grained, rarely coarse-grained, grey to locally black, pyroxene +/- hornblende +/- biotite gabbro and minor quartz diorite and tonalite commonly cut by thin granodiorite veins; locally displays layering; minor areas of pyroxene-rich, medium- to coarse-grained gabbro (Dickson, 2000c)

eS:Hm

Early Silurian. Massive, fine- to coarse-grained gabbro, diorite, and minor amphibolite, quartz diorite, granodiorite and tonalite (comp. Dean, 1977g; comp. Dickson, 2000c)

Devils Room granite

SD:Vm

Medium-grained, biotite +/- muscovite granite (Smyth and Schillereff, 1981a)

SD:Vp

Porphyritic biotite granite (Smyth and Schillereff, 1981a)

SD:Vf

Mylonitic megacrystic granite and unseparated amphibolite (comp. Owen, 1991)

SD:Vx

Megacrystic biotite granite (Smyth and Schillereff, 1981a)

Early to Late Silurian*Stony Lake volcanic rocks*

S:Tvk

Grey and minor pink felsic crystal-lithic tuff, lapilli tuff, breccia, flow-banded rhyolite and minor porphyry (Kean and Mercer, 1981)

S:Tvid

Tightly folded, strongly flattened, lapilli tuff formed from dark grey to black rhyodacite(?) with white, rectangular feldspar phenocrysts/crystals predominating over quartz phenocrysts/crystals (Colman-Sadd and Russell, 1988)

S:Tvit	Moderately to strongly flattened lapilli tuff formed of dark grey to black rhyodacite(?) with white, rectangular feldspar phenocrysts/crystals predominating over quartz phenocrysts/crystals (Colman-Sadd and Russell, 1988)
S:Tvil	Massive lapilli tuff and tuff breccia formed of dark grey to black rhyodacite(?) with white, rectangular feldspar phenocrysts/crystals predominating over quartz phenocrysts/crystals; includes many accidental fragments (Colman-Sadd and Russell, 1988)
S:Tvif	Dark grey to black flow-banded rhyodacite(?) and strongly flattened rhyodacitic(?) tuff with white, rectangular feldspar phenocrysts/crystals predominating over quartz phenocrysts/crystals (Colman-Sadd and Russell, 1988)
S:Tvh	Dark grey to dark green rhyodacite(?) tuff and lapilli tuff with white rectangular feldspar crystals predominating over quartz crystals; contains numerous accidental fragments of pink rhyolite (Colman-Sadd and Russell, 1988)
S:Tvgb	Grey to purple rhyolite(?) breccia (Colman-Sadd and Russell, 1988)
S:Tvgf	Grey to purple flow-banded rhyolite(?) (Colman-Sadd and Russell, 1988)
S:Tvfl	Pink and purple feldsparphyric rhyolitic lapilli tuff (Colman-Sadd and Russell, 1988)
S:Tvfb	Pink and purple feldsparphyric rhyolite blocks in a grey to green fine-grained matrix (Colman-Sadd and Russell, 1988)
S:Tvff	Pink and purple feldsparphyric rhyolite flows, locally flow-banded or brecciated (Colman-Sadd and Russell, 1988)
S:Tvet	Light to reddish purple, feldsparphyric rhyolitic tuff (Colman-Sadd and Russell, 1988)

S:Tvel	Light to reddish purple, feldsparphyric rhyolitic lapilli tuff (Colman-Sadd and Russell, 1988)
S:Tveb	Light to reddish purple, feldsparphyric rhyolite breccia (Colman-Sadd and Russell, 1988)
S:Tvef	Light to reddish purple, feldsparphyric flow-banded rhyolite (Colman-Sadd and Russell, 1988)
S:Tvdt	Grey rhyolitic tuff (Colman-Sadd and Russell, 1988)
S:Tvdf	Grey, flow-banded rhyolite (Colman-Sadd and Russell, 1988)
S:Tvc	Medium-grained, quartz and feldspar rhyolitic crystal tuff (Colman-Sadd and Russell, 1988)
S:Tvbb	Mainly buff, but locally green or purple, feldsparphyric, pyritiferous rhyolite breccia (Colman-Sadd and Russell, 1988)
S:Tvbf	Mainly buff, but locally green or purple, feldsparphyric, pyritiferous flow-banded rhyolite (Colman-Sadd and Russell, 1988)
S:Tva	Grey, aphanitic rhyolite breccia (Colman-Sadd and Russell, 1988)
S:Tsg	Grey siltstone and sandstone (Colman-Sadd and Russell, 1988)
S:Tsr	Red siltstone and sandstone, locally containing mudcracks (Colman-Sadd and Russell, 1988)



Grey siltstone and sandstone containing blocks of rhyolite and lapilli tuff (Colman-Sadd and Russell, 1988)

Partridge Point granite

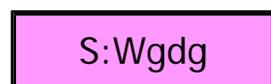


White to light grey, medium-grained, leucocratic, muscovite granite; locally garnetiferous (Hibbard, 1983)

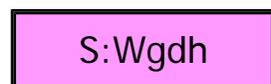
Wild Cove Pond Igneous Suite



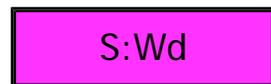
Mainly medium- to coarse-grained, equigranular to feldspar porphyritic, pink biotite granite (Hibbard, 1983)



Mainly medium-grained, equigranular, muscovite +/- biotite granodiorite, locally garnetiferous (Hibbard, 1983)



Mainly medium- to coarse-grained, biotite +/- hornblende granodiorite, locally feldspar porphyritic (Hibbard, 1983)



Mainly grey-green, biotite +/- hornblende +/- quartz diorite, locally feldspar porphyritic (Hibbard, 1983)



Contact migmatite; includes hybrid gneisses and local agmatite (Hibbard, 1983)



Diorite, granodiorite, biotite granite, and two-mica granite (Hibbard, 1983)

Botwood Group



Buff-weathering, grey, mud-crack-bearing, boudinaged, sandstone hornfels (Dickson, 1996a)



Hornfels derived from grey to green, well-cleaved, locally mud-crack-bearing and rippled sandstone and siltstone (comp. Dickson, 1996a)



Grey to green, well-cleaved, locally mud-crack-bearing and rippled sandstone and siltstone (Dickson, 1996a)

S:Bs_q

White-weathering, cream, green and purple, thick-bedded, highly quartz-veined, quartz-rich sandstone and minor green slate and siltstone (Dickson, 1996a)

S:Bs_{rc}

Thin- to thick-bedded, well-cleaved, red and green siltstone, sandstone, conglomerate and breccia containing felsic volcanic, grey sandstone and quartz-veined sandstone clasts (Dickson, 1996a)

S:Bs_{rs}

Red and green, weakly cleaved siltstone and sandstone, locally containing mud-cracks and rain-pits (Dickson, 1996a)

S:Bs_m

Green-grey and maroon, interbedded sandstone, siltstone and shale, with cross and parallel laminations, ripple marks and mudcracks (Colman-Sadd and Russell, 1988)

S:Bs_s

Red, grey-green, micaceous sandstone, siltstone and conglomerate, locally cross-bedded, ripple-marked and mud-cracked; minor calcareous rocks (Evans et al., 1994a)

S:Bs

Red, green and grey, micaceous sandstone, siltstone, shale and conglomerate, locally cross-bedded, ripple-marked and mud-cracked; minor calcareous rocks (comp. Evans et al., 1994a)

S:Bf

Altered, creamy green, locally flow-banded, felsic, lithic-crystal tuff (Evans et al., 1994a)

Fogo Harbour formation

S:BF

Fine-grained, greenish, micaceous sandstone, containing numerous tuff beds (Williams and Currie, 1995)

Brimstone Head formation

S:BB

Tuff, ignimbrite and subordinate tuffaceous sandstone (comp. Williams and Currie, 1995)

Wigwam Formation

White, buff and pale-green sandstone and shale-flake conglomerate derived by alteration of subunits 'sg', 'sr' and 'src' (comp. Dickson et al., 2000)



Red, clast-supported, polymict conglomerate, composed of subangular pebbles of sandstone and volcanic rocks (Dickson et al., 2000)



Red, thick- and medium-bedded, commonly parallel-laminated and/or cross-laminated, locally rippled and/or graded, variably cleaved, medium-grained, quartz-rich sandstone; locally includes matrix-supported, shale-flake conglomerate and beds of nodular limestone (Dickson et al., 2000)



Grey and crossbedded, ripple-marked sandstone with detrital mica (a locally reddened variety contains secondary ferroan carbonate and pyrite near faults); rare microconglomerate with distinctive green-grey and black shale clasts (O'Brien, 1992a)



Green-grey, pink- and white-weathering, parallel- and crossbedded, locally ripple-marked, medium- and thick-bedded, quartz-rich sandstone and minor felsic volcanic-clast conglomerate (Dickson et al., 2000)



Red and green, micaceous sandstone, typically cross-bedded; common siltstone and mudstone exhibiting ripple marks, dessication cracks and rain prints; minor conglomerate and calcareous rocks (comp. Williams et al., 1985; comp. Kean and Mercer, 1981)



Red, aphanitic, flow-banded, felsic volcanic rock (Dickson et al., 2000)

Lawrenceton Formation

S:BLs

Clast-supported, poorly sorted, polymict conglomerate composed of subangular to subrounded cobbles and pebbles of volcanic and sedimentary rocks, and local polymict volcanic breccia (Dickson et al., 2000)

S:BLvfr

Purplish-red, rhyolitic, crystal-lithic, vitric and lapilli tuff and breccia (Kean and Mercer, 1981)

S:BLvfa

Altered, creamy-green, felsic, lithic-crystal tuff (Kean and Mercer, 1981)

S:BLva

White, buff and light-grey, pyritic, quartz-sericite schist; includes unseparated felsic volcanic rocks west of Southwest Pond (Dickson et al., 2000)

S:BLvfx

Coarse breccia of green and purple, silicic, aphanitic blocks in a fine-grained, red silicic matrix and coarse-grained, laharic conglomerate, felsic-clast conglomerate and agglomerate and felsic tuff (Dickson et al., 2000)

S:BLvi

Grey and purple, purple-weathering, plagioclase-porphyrific, intermediate to mafic lava and oligomict volcanoclastic breccia; possibly equivalent to parts of subunit 'vmb' (Dickson et al., 2000)

S:BLvff

Light- to dark-grey, felsic to intermediate volcanic rocks including banded, plagioclase-porphyrific and aphanitic lava, banded ignimbrite, and massive crystal-lithic tuff (Dickson et al., 2000)

S:BLvmb

Mainly green and dark-grey, plagioclase-porphyrific, amygdaloidal basalt flows; locally cleaved; flow tops are commonly red or maroon, brecciated, and locally contain laminated red sandstone lenses and septa; west of Upper Scissors Pond may be equivalent to subunit 'vi' (Dickson, 1996a)

S:BLvmi

Grey, green and purple, purple-weathering, plagioclase-porphyritic, intermediate to mafic flows and oligomict volcaniclastic breccia (Dickson et al., 2000)

S:BLvmp

Green, locally purplish and feldsparphyric, mafic volcanic rocks with poorly developed pillow structures in places; minor breccia, agglomerate and chert (Kean and Mercer, 1981)

S:BLv

Grey, green and purple, mainly plagioclase-porphyritic mafic and intermediate flows and breccia; grey, plagioclase-porphyritic, felsic to intermediate flows, ignimbrite, tuff and breccia; quartz-sericite schist; minor interbedded sedimentary rocks (comp. Dickson et al., 2000; comp. Dickson, 2000c)

S:BL

Subaerial mafic and felsic volcanic flows and pyroclastic rocks, with thin horizons of tuffaceous sandstone and conglomerate (comp. Williams et al., 1985)

Dolland Pond formation

S:DP

Thin- to medium-bedded, moderately cleaved, dark greenish-grey sandstone, siltstone, shale and polymict pebble conglomerate; minor thick-bedded, subangular, polymict, cobble conglomerate; metamorphosed in the lower greenschist facies (Colman-Sadd and Swinden, 1989; Dickson, 1990c)

Intrusions into Sops Arm Group

S:SAf

Pink felsite dykes and sills (Smyth and Schillereff, 1981a)

S:SAq

Quartz monzonite sills (Smyth and Schillereff, 1981a)

Dolman Cove Belt

Dolman Formation

S:DDh

Undivided felsic to intermediate schist (Chorlton, 1980a)

S:DDp	Felsic pyroclastic rocks (Chorlton, 1980a)
S:DDemb	Massive to predominantly mylonitic, pink, feldspar-porphyritic felsic volcanic rock deformed in the Bay d'Est fault zone (comp. O'Brien, 1982)
S:DDem	Massive to predominantly mylonitic, pink, feldspar-porphyritic felsic volcanic rock (comp. O'Brien, 1982)
S:DDeb	Fine-grained, felsic pyroclastic rocks, including lineated feldspathic schist deformed in Bay d'Est fault zone (comp. O'Brien and Dickson, 1986)
S:DDe	Fine-grained, felsic pyroclastic rocks, including lineated feldspathic schist (O'Brien and Dickson, 1986)
S:DD	Fine-grained, felsic pyroclastic rocks; felsic to intermediate schist (comp. Chorlton, 1980a)
S:Dvma	Amphibolite (Chorlton, 1980b)
S:Dvmv	Mafic metavolcanic rocks (Chorlton, 1980b)
S:Dvm	Mafic metavolcanic rocks and amphibolite (Chorlton, 1980b)
S:Dvfr	Felsic volcanic rocks, including rhyolite, welded tuff, crystal tuff, agglomerate, and felsite (comp. Chorlton, 1980a; comp. Chorlton, 1980b)
S:Dvfg	Silicic metavolcanic rocks, including pyroclastic rocks and tuffaceous metagreywacke (Chorlton, 1980b)

S:Dvf	Felsic volcanic rocks, including rhyolite, welded tuff, crystal tuff, agglomerate, felsite, and tuffaceous metagreywacke (comp. Chorlton, 1980a; comp. Chorlton, 1980b)
S:Dss	Semipelitic schist (Chorlton, 1980a)
S:Dsg	Metagreywacke and metasiltstone (Chorlton, 1980b)
S:Dscp	Polymictic conglomerate (Chorlton, 1980a)
S:Dscg	Gabbro boulder conglomerate (O'Brien, 1982)
S:Dm	Injection gneiss (Chorlton, 1980b)
S:D	Felsic volcanic rocks, principally fine-grained, felsic pyroclastic rocks and felsic to intermediate schist, but also including rhyolite, welded tuff, agglomerate, felsite, and tuffaceous metagreywacke; lesser amounts of mafic metavolcanic rocks, amphibolite, metagreywacke, metasiltstone, semipelitic schist, conglomerate, and injection gneiss (comp. Chorlton, 1980a; comp. Chorlton, 1980b)

La Poile Group

Rocky Ridge Subbasin

IS:LRvfx	Late Silurian. Pale pink, massive to stratified, medium- to coarse-grained, quartz-feldspar crystal tuff (O'Brien and O'Brien, 1989)
IS:LRsf	Late Silurian. Grey, fine- to medium-grained, cross stratified, feldspathic and quartz-rich sandstone (O'Brien and Dickson, 1986)

IS:LRvfb	Late Silurian. Bedded lithic tuffs and agglomerates; minor breccias (O'Brien and O'Brien, 1989)
IS:LRsm	Late Silurian. Schistose to hornfelsic equivalents of the sedimentary rocks of the Rocky Ridge Subbasin, containing unseparated granite sheets (comp. O'Brien and O'Brien, 1989)
IS:LRscs	Late Silurian. Medium- and coarse-grained, massive to cross stratified, blue quartz-rich, arenaceous sandstone and pebbly sandstone; contains quartz pebble conglomerate beds (O'Brien and Dickson, 1986)
IS:LRsc	Late Silurian. Angular to subangular, poorly sorted, massive to locally cross stratified, quartz pebble and quartz cobble conglomerate (O'Brien and Dickson, 1986)
IS:LRscb	Late Silurian. Medium- and coarse-grained, massive to cross stratified, blue quartz-rich, arenaceous sandstone and pebbly sandstone; angular to subangular, poorly sorted, massive to locally cross stratified, quartz pebble and quartz cobble conglomerate; both rock types deformed within the Bay d'Est fault zone (comp. O'Brien and Dickson, 1986)
IS:LRsc	Late Silurian. Medium- and coarse-grained, massive to cross stratified, blue quartz-rich, arenaceous sandstone and pebbly sandstone; angular to subangular, poorly sorted, massive to locally cross stratified, quartz pebble and quartz cobble conglomerate (comp. O'Brien and Dickson, 1986)
IS:LRsu	Late Silurian. Grey, quartz-rich, cross bedded to planar bedded sandstone; quartz pebble and polymict conglomerate; light green to grey slate and argillite; quartz-feldspar grit and tuffaceous wacke; basal boulder conglomerate (O'Brien and O'Brien, 1989)

IS:LRh

Late Silurian. Gallyboy Harbour Tuff: Pink, medium- to coarse-grained, locally layered and stratified, quartz-feldspar crystal tuff; rare blocks of felsic volcanic and siliciclastic sedimentary rocks (O'Brien, 1990b)

IS:LR

Late Silurian. Grey, quartz-rich, cross- and planar-bedded sandstone; quartz pebble and polymict conglomerate; basal boulder conglomerate; schistose to hornfelsic equivalents of sedimentary rocks, containing unseparated granite sheets; massive to stratified quartz-feldspar crystal tuff; bedded lithic tuff and agglomerate; minor breccia (comp. O'Brien and O'Brien, 1989; comp. O'Brien et al., 1991)

La Poile Bay Subbasin

IS:LLc

Late Silurian. Cross Gulch Tuff: Lithic tuff composed of multicoloured, polyolithic, felsic volcanic fragments; minor argillite and tuffaceous sandstone (O'Brien, 1990b)

IS:LLh

Late Silurian. Gallyboy Harbour Tuff: Pink, medium- to coarse-grained, locally layered and stratified, quartz-feldspar crystal tuff; rare blocks of felsic volcanic and siliciclastic sedimentary rocks (O'Brien, 1990b)

S:LLf

Flint Cliff Pond Tuff: Buff, medium-grained, lithic tuff; coarse agglomerate composed of pink, massive rhyolite blocks; minor thin bedded quartz sandstone; rare lava flows of limited extent (O'Brien, 1990b)

S:LLe

Eastern Point Rhyolite: Pink, massive aphanitic lava; locally welded (O'Brien, 1990b)

S:LLr

French Cove Tuff: Well bedded lithic tuff; breccia containing siliciclastic sedimentary and felsic volcanic fragments; minor lithic-crystal tuff (O'Brien, 1990b)

S:LLu	Guiders Pond Grit: Grey-brown, poorly sorted, locally stratified, quartz-feldspar grit and tuffaceous wacke; minor boulder conglomerate and olistostrome; rare grey slate (O'Brien, 1990b)
S:LLk	Black Duck Brook Conglomerate: Poly lithic, cobble and boulder conglomerate; thin bedded quartz sandstone interstratified with laminated argillite; minor grey slate (O'Brien, 1990b)
S:LLo	Old Man Hill Tuff: Fine-grained lithic tuff composed of pink rhyolite fragments (O'Brien, 1990b)
S:LLw	Withy Gulch Hill Agglomerate: Agglomerate and breccia composed of massive, flow-banded and flow-folded rhyolite; minor pink and cream rhyolite (O'Brien, 1990b)
S:LLm	Old Man Pond Slate: Grey slate and laminated argillite; rare, interstratified, thin bedded quartz sandstone (O'Brien, 1990b)
S:LLI	Little Roti Bay Agglomerate: Crudely stratified, coarse agglomerate and breccia containing poly lithic, felsic volcanic blocks; purple lithic tuff (O'Brien, 1990b)
S:LLb	Butterfly Pond Grit: Grey-brown, poorly sorted, quartz-feldspar grit and tuffaceous wacke; grey slate (O'Brien, 1990b)
S:LLg	Georges Pond Slate: Grey slate and laminated argillite (O'Brien, 1990b)
S:LLpx	Phillips Brook Rhyolite: Uppermost breccia unit composed of flow-banded rhyolite fragments (O'Brien, 1990b)
S:LLpf	Phillips Brook Rhyolite: Cream and pink, massive to finely laminated lava (O'Brien, 1990b)



Outside Gull Pond Slate: Grey slate and laminated argillite; minor, interstratified, thin bedded quartz sandstone (O'Brien, 1990b)



Twin Pond Argillite: Laminated argillite; minor cobble and boulder, polymictic conglomerate; minor tuffaceous sandstone and wacke (O'Brien, 1990b)



Inside Gull Pond Tuff: Buff, fine-grained lithic tuff; local breccia composed of pink rhyolite fragments; welded lithic-crystal tuff (O'Brien, 1990b)



Dinner Box Hill Rhyolite: Pink, flow-banded and massive, locally porphyritic lava; rare rhyolite breccia (comp. O'Brien, 1990b)



Northwest Pond Brook Grit: Grey-brown, poorly sorted, massive and stratified, locally graded and cross bedded, quartz-feldspar grit and tuffaceous wacke; rip-up clasts and large blocks of laminated argillite; clasts of quartzofeldspathic schist, foliated granitoid and diabase (O'Brien, 1990b)



Cinq Cerf Brook Conglomerate: Thick bedded, polymictic, boulder and cobble conglomerate interstratified with thin bedded, tuffaceous sandstone and tuff; clasts of blue quartz-bearing granodiorite (containing pre-incorporation foliation), diabase, quartz pebble conglomerate, amphibolitic gneiss, jasper, vein quartz and felsic tuff (O'Brien, 1990b)



Early Silurian. Grand Bruit Gull Pond Tuff: Light green, fine-grained, felsic lithic tuff; red and purple lithic tuff, tuffaceous sandstone and slate, quartz pebble conglomerate (O'Brien, 1990b)

Springdale Group

*Volcanic rocks
(exotically derived)*

S: SX

Massive, densely welded, crystal-lithic, ash-flow tuff, containing large phenocrysts of quartz and feldspar, and clasts of mafic and ultramafic rock types; U-Pb zircon age of 425 +/-3 Ma; deposited in the Springdale Caldera but probably derived from an eruption outside the caldera, possibly related to the Kings Point Complex (comp. Coyle, 1992)

Intrusive rocks

S: SIf4

Glassy, massive to flow foliated, autobrecciated, high silica rhyolite domes and dykes with lithophysae and spherulitic devitrification; U-Pb zircon age of 430.8 +/-2 Ma; associated with the late stages of the Springdale Caldera (comp. Coyle, 1992)

S: SIf2

Microporphyritic, pink felsic sill with grainy to glassy texture and in part flow banded; associated with the eastern strato-volcanic centre of the Springdale Caldera (comp. Coyle, 1992)

S: SId

Massive, black, fine-grained microdiorite forming a plug which is interpreted as the remnant of a core of a strato-volcano on the eastern margin of the Springdale Caldera (comp. Coyle, 1992)

Sedimentary rocks

S: SS

Red conglomerate, sandstone and sandy siltstone; local caliche horizons; cross-bedding, ripples, laminations, rip-up horizons and scour channels indicate stream-flood and proximal and distal fluvial origin; clasts essentially volcanic or plutonic in origin; formed after explosive activity had ceased in the Springdale Caldera (comp. Coyle, 1992)

Volcanic rocks

S: SVm4

Plagiophyric basalts with local coarse concentrations of plagioclase; tabular flows with massive basal portions and vesiculated flow-top breccias; associated with post-collapse, effusive and synsedimentary deposition in the Springdale Caldera (Coyle, 1992)

S:SVf3r

Mainly welded, devitrified and locally massive, rhyolitic, ash-flow, vitric tuffs and breccias; includes areas of unwelded vitroclastic tuffs with large individually devitrified shards; locally passes into reworked tuffaceous material; alternating thin basaltic and silicic bands interpreted as resulting from magma mixing; associated with the final pyroclastic eruption of the Springdale Caldera (comp. Coyle, 1992)

S:SVf3d

Massive, vitric-rich, strongly welded, dacitic to rhyolitic ash-flow tuffs and associated vitroclastic breccia and domes; tuffs are locally porphyritic with small euhedral plagioclase and rare quartz phenocrysts in a glassy matrix; domes have curvilinear joint surfaces with internal plastic shear zones, local brecciation and flow folds; associated with the main explosive stage of the Springdale Caldera (comp. Coyle, 1992)

S:SVf2

Extensive silicic ash-flow tuffs, containing broken crystals of plagioclase, potassium feldspar and quartz, lithic fragments of variable composition, vitroclasts, and large, flattened pumice bombs; basal lithophysae-rich horizons grade up into partially welded crystal-lithic lapilli tuff; dominates the intra-caldera assemblage (comp. Coyle, 1992)

S:SVm2

Basaltic flows, but including some flows of intermediate composition; locally plagiophyric, with amygdales of quartz, calcite and chlorite; variably altered; associated with the early, dominantly explosive phase of volcanism in the Springdale Caldera (comp. Coyle, 1992)

S:SVm

Subaerial basaltic lava flows, aphanitic to plagiophyric, vesicular and amygdaloidal to non-vesicular; vesiculated flow-top breccia; variably altered (comp. Kean et al., 1994b; Coyle, 1992)

S:SVit

Intermediate to felsic, variably welded, feldsparphyric, crystal-lithic and lapilli ash-flow tuff and tuff breccia; contains clasts of andesite, rhyolite, and angular and flattened pumice; associated with a vent centre in the eastern margin of the Springdale Caldera (comp. Coyle, 1992)

S:SVif

Massive to flow-foliated to brecciated, plagiophytic, dacitic spines, domes and vent complexes, and associated carapaces; glomeroporphyritic, andesitic volcanic rocks, mainly well-bedded, massive lava flows with strato-volcanic affinities, and some massive andesitic intrusive stocks; associated with the eastern eruptive margin of the Springdale Caldera (comp. Coyle, 1992)

S:SVxc

Thick-bedded, coarse, red conglomerate (Kean et al., 1994a)

S:SVx

Laharic flows, agglomerates, coarse pyroclastic breccias, tuffites and pepperites, volcanic conglomerates and breccias, and minor reworked sandy horizons, together comprising mega- and meso-breccias at the collapse margin of the Springdale Caldera; debris includes basement rocks, and mafic and felsic volcanic rocks in a matrix ranging from crystal-rich ashy material to reworked equivalents (comp. Coyle, 1992)

S:SVf1

Welded, lithic-crystal tuff, containing plagioclase, potassium feldspar, accessory biotite, quartz and rare opaque minerals, and clasts of granophyre, plagiophytic basalt, andesite, ultramafic rocks and jasper; U-Pb zircon age of $432.4 \pm 1.7/-1.4$ Ma; first eruptive unit of the Springdale Caldera (comp. Coyle, 1992)

Sops Arm Group

*Natlins Cove
Formation*

S:ANvfp

Pumice flows (Smyth and Schillereff, 1981a)

S:ANvfi	Rheo-ignimbrite (Smyth and Schillereff, 1981a)
S:ANvb	Conglomerate and volcanic breccia (Smyth and Schillereff, 1981a)
S:ANvl	Laharic breccia (Smyth and Schillereff, 1981a)
S:ANvm	Mafic volcanic flows (Smyth and Schillereff, 1981a)
S:ANvfw	Ash-flow tuff or ignimbrite, strongly welded (Smyth and Schillereff, 1981a)
S:ANvfu	Ash-flow tuffs, welded and unwelded (Smyth and Schillereff, 1981a)
S:ANvfr	Flow-banded rhyolite (Smyth and Schillereff, 1981a)
S:ANvf	Predominantly ash-flow tuff and rhyolite flows; minor unwelded tuff (comp. Smyth and Schillereff, 1981a)
S:ANsw	Lighthouse Member: White sandstone (Smyth and Schillereff, 1981a)
S:ANss	Limey siltstone and sandstone (Smyth and Schillereff, 1981a)
<i>Simms Ridge Formation</i>	
eS:ASv	Early Silurian. Calcareous tuff (Smyth and Schillereff, 1981a)
eS:ASI	Early Silurian. Limestone (Smyth and Schillereff, 1981a)



Early Silurian. Brown weathering slate and argillite, characterized by brown siderite spots (Smyth and Schillereff, 1981a)

Frenchmans Cove formation



Early Silurian. Bedded, polymictic conglomerate and sandstone (Smyth and Schillereff, 1981a)

Jacksons Arm Formation



Early Silurian. Mafic volcanic flows (Smyth and Schillereff, 1981a)



Early Silurian. Massive, polymictic boulder to cobble conglomerate (Smyth and Schillereff, 1981a)

Lower volcanic formation



Early Silurian. Mafic volcanic flows (Smyth and Schillereff, 1981a)



Early Silurian. Dolostone and thin-bedded limestone (Smyth and Schillereff, 1981a)



Early Silurian. Polymict conglomerate and sandstone (Smyth and Schillereff, 1981a)



Early Silurian. Felsic volcanic breccia (Smyth and Schillereff, 1981a)



Early Silurian. Ash-flow tuff, welded and unwelded (Smyth and Schillereff, 1981a)



Early Silurian. Flow-banded rhyolite (Smyth and Schillereff, 1981a)

eS:ALvf

Early Silurian. Predominantly ash-flow tuffs and rhyolite flows, but also including unwelded tuff and volcanic breccia (comp. Smyth and Schillereff, 1981a)

eS:AL

Early Silurian. Predominantly ash-flow tuffs and rhyolite flows, but also including unwelded tuff, volcanic breccia, mafic flows, conglomerate, sandstone, dolostone and limestone (comp. Smyth and Schillereff, 1981a)

S:As

Quartz-carbonate schist, age and origin uncertain (Smyth and Schillereff, 1981a)

Indian Islands Group

Horwood formation

S:IH

Grey to black shale containing thin beds of pale buff siltstone (comp. Currie and Williams, 1995)

Charles Cove formation

eS:IC

Early Silurian. Grey calcareous siltstone with local fossiliferous limestone lenses (Currie and Williams, 1995)

Seal Island formation

eS:IS

Early Silurian. Discontinuous unit of coralline limestone and limestone breccia, containing Halysites (comp. Currie, 1995b)

S:I

Grey calcareous siltstone with local fossiliferous limestone lenses, overlain by grey to black shale containing thin beds of pale buff siltstone; discontinuous basal unit of coral-bearing limestone and limestone breccia (comp. Currie and Williams, 1995; comp. Currie, 1995b)

Indian Islands Group?

S:I?c

Pebble conglomerate lenses containing felsic volcanic, grey sandstone and quartz-veined sandstone clasts (Dickson, 1996a)

S:l?	Medium- to very thick-bedded, variably cleaved, grey, buff, red and green sandstone, siltstone, shale and conglomerate containing felsic volcanic, grey sandstone and quartz-veined sandstone clasts; local calcareous horizons containing corals, crinoids and brachiopods (Dickson, 1996a)
eS:Tlmf	White to red, fine- to medium-grained, equigranular, amphibole-biotite, one-feldspar granite (Whalen and Currie, 1988)
eS:Tlme	White to red, fine- to medium-grained, equigranular, biotite-amphibole, one-feldspar granite (Whalen and Currie, 1988)
eS:Tlmd	White to red, fine- to medium-grained, equigranular, biotite, one-feldspar granite (Whalen and Currie, 1988)
eS:Tlmc	White to red, fine- to medium-grained, equigranular, amphibole-biotite, two-feldspar granite and granodiorite (Whalen and Currie, 1988)
eS:Tlmb	White to red, fine- to medium-grained, equigranular, biotite-amphibole, two-feldspar granite (Whalen and Currie, 1988)
eS:Tlma	White to red, fine- to medium-grained, equigranular, biotite, two feldspar granite (Whalen and Currie, 1988)
eS:Tlm	White to red, fine- to medium-grained equigranular granite; minor quartz-feldspar porphyritic granite and aplite (Whalen and Currie, 1988)
eS:Tlp	White to red, medium- to coarse-grained, equigranular, arfvedsonite +/- aegirine, one-feldspar granite; in large part peralkaline (comp. Whalen, 1993a)

eS:TIg

White to pink, medium- to coarse-grained, biotite-amphibole, two-feldspar granite; contains pink fine- to medium-grained granite with pegmatitic patches near margins (Whalen and Currie, 1988)

eS:TIsb

Grey to orange, medium- to coarse-grained amphibole +/- clinopyroxene gabbro to quartz syenite (Whalen and Currie, 1988)

eS:TIsa

Red, medium-grained, K-feldspar porphyritic, amphibole-biotite, two-feldspar quartz syenite to granite (Whalen and Currie, 1988)

eS:TIa

Agmatite of mafic to ultramafic blocks in granitic to granodioritic matrix (Whalen and Currie, 1988)

eS:TI

Granite, granodiorite, syenite and gabbro, including peralkaline intrusions (comp. Whalen and Currie, 1988)

Dunamagon granite

eS:D

Medium- to coarse-grained, pink, biotite granite (Hibbard, 1983)

Taylor Brook gabbro

eS:Yp

Stock and dykes of massive pegmatitic leucogabbro, cutting layering of main Taylor Brook gabbro intrusion (comp. Owen, 1991)

eS:Yg

Typically medium-grained, mesocratic, layered gabbro, containing calcic plagioclase and various combinations of olivine, augite and orthopyroxene; minor fine-grained pyroxene-bearing diorite (comp. Owen, 1991)

Flatwater Pond Group

eS:Fv

Medium to pale green weathering pillow lava; minor pillow breccia and diabase dykes and sills (Hibbard, 1983)

eS:Fsb

Drab green to grey and buff mafic and pink sericitic felsic volcanoclastic rocks; minor gabbro-boulder conglomerate and diabase dykes (Hibbard, 1983)

eS:Fsm

Mainly drab green to grey and buff mafic volcanoclastic rocks, gabbro-boulder conglomerate and diabase dykes; minor pillow lava (Hibbard, 1983)

Kidney Pond conglomerate

eS:FKc

Polymictic pebble to boulder conglomerate; lower unit of clast-supported conglomerate in sandy or silty matrix, and upper unit of flattened, matrix-supported conglomerate in a black slaty matrix (comp. Kidd, 1974)

eS:FKv

Sandy and silty mafic volcanoclastic rocks, and subordinate green and grey, and minor black and maroon, banded argillite, cherty argillite, chert and slate; contains rare pebbles and boulders (comp. Kidd, 1974)

eS:FK

Polymictic black slate boulder conglomerate, polymictic conglomerate, and gabbro boulder conglomerate; minor epiclastic rocks, black slate and argillite (Hibbard, 1983)

Burlington granodiorite

eS:BU

Mainly light grey to greenish grey, medium-grained, hornblende-biotite granodiorite and quartz diorite; minor related monzonitic and granitic phases (Hibbard, 1983)

Intrusions into Coney Head Complex

eS:Ny

Mafic to intermediate dykes (Smyth and Schillereff, 1981a)

eS:Nm

Leucocratic, muscovite, granite sheets (Smyth and Schillereff, 1981a)



Reddish, biotite, graphic microgranite (Smyth and Schillereff, 1981a)



Pegmatite and granite (Cawood and van Gool, 1998)

*Island Pond pluton
(Grand Lake)*



Foliated and locally mylonitic, medium- to coarse-grained granite and pegmatite (comp. Cawood and van Gool, 1998)

*Little Paddle Point
pluton*



Medium-grained, equigranular granodiorite with minor granite, gabbro and diorite (Cawood and van Gool, 1998)

*Glover Island
Granodiorite*



Foliated, white to beige, medium-grained, equigranular, biotite-amphibole granodiorite with minor granite, gabbro and diorite (comp. Cawood and van Gool, 1998; comp. Whalen, 1993b)

*St. Julien Island
Formation*



Red to purple polymictic conglomerate and minor greywacke (Stouge and Godfrey, 1982)



Tan to rose, massive to schistose, very fine-grained felsic porphyry (Owen, 1986)

Late Ordovician to Middle Devonian

Windsor Point complex

*Billiards Brook
formation*

D:WB

Early to Middle Devonian. Green and grey, feldspathic litharenite and interbedded fossiliferous black siltstone; grey to locally purplish, pebble to boulder conglomerate (Kean, 1983)

Nitty Gritty Brook granite

S:WN

Early to Late Silurian. Fine-grained, alaskitic granite (Chorlton, 1980a)

O-D:Wy

Mylonite formed by strike-slip motion in the Cape Ray fault zone from Ordovician sedimentary and volcanic rocks (Little Barachois formation) and Silurian sedimentary rocks of the Windsor Point complex (comp. Dube and Lauziere, 1996c)

Windowglass Hill granite

S:WW

Early to Late Silurian. Pinkish, alkali feldspar-rich granite, probably consanguineous with felsic volcanic rocks of Windsor Point Complex (comp. van Staal et al., 1996b)

Silurian stratified rocks

eS:WSvkm

Early Silurian. Green to purplish, vesicular and calcite amygdaloidal, massive (locally schistose) mafic flows and minor agglomerate (Kean, 1983)

eS:WSvkf

Early Silurian. Pink to red and brown, and locally black and green, rhyolitic breccias, lapilli tuffs, flow banded and welded rhyolitic tuffs (locally feldsparphyric) and vitric tuffs; minor laharic rocks (Kean, 1983)

eS:WSvk

Early Silurian. Pink to red and brown, and locally black and green, rhyolitic breccias, lapilli tuffs, flow banded and welded rhyolitic tuffs (locally feldsparphyric) and vitric tuffs; minor laharic rocks; green to purplish, vesicular and calcite amygdaloidal, massive (locally schistose) mafic flows and minor agglomerate (Kean, 1983)

S:WSvcb

Early to Late Silurian. Highly strained, bimodal volcanic and volcanoclastic rocks with associated sedimentary rocks (comp. Dube and Lauziere, 1997)

S:WSvcs

Early to Late Silurian. Quartz-sericite schist (Dube and Lauziere, 1996d)

S:WSvcf

Early to Late Silurian. Quartz-feldspar porphyry, rhyolite and felsic pyroclastic rocks; felsic volcanoclastic rocks (comp. Dube and Lauziere, 1996b; comp. van Staal et al., 1996a)

eS:WSss

Early Silurian. Ripple marked, crossbedded, red sandstone and siltstone with dessication cracks; interbedded red conglomerate; minor unseparated mafic and felsic volcanic rocks and limestone; minor laharic rocks (Kean, 1983)

S:WSscy

Early to Late Silurian. Mylonite derived mainly from Silurian sedimentary rocks, including polymictic conglomerate, of the Windsor Point complex; the mylonitic foliation is defined principally by chlorite and/or sericite; may include rocks derived from the Grand Bay complex (Dube and Lauziere, 1997)

S:WSsc

Early to Late Silurian. Mainly polygenic to monogenic conglomerate; greywacke, shale and pebbly mudstone; black and/or graphitic shale; limestone; gabbro; chlorite-sericite schist, chlorite schist and quartz-sericite schist (comp. Dube and Lauziere, 1996a; comp. van Staal et al., 1996a)

S:WS

Early to Late Silurian. Red sandstone and siltstone; red conglomerate and polygenic to monogenic conglomerate; greywacke, shale and pebbly mudstone; black and/or graphitic shale; limestone; quartz, chlorite and/or sericite schists; rhyolitic breccias, lapilli tuffs, flow banded and welded rhyolitic tuffs and vitric tuffs; minor laharic rocks; quartz-feldspar porphyry; massive mafic flows and minor agglomerate (comp. Kean, 1983; comp. Dube and Lauziere, 1996a)

O-D:Wsl

Chlorite-sericite-quartz-carbonate schists with minor limestone and pyroclastic beds (Chorlton, 1980a)

O-D:Wsc

Granite porphyry boulder conglomerate (Chorlton, 1980a)

O-D:Wvfp

Siliceous pyroclastic rocks, associated with coarse quartzitic sandstone and minor quartz porphyry (Chorlton, 1980a)

O-D:Wvmx

Agglomerate/breccia (Chorlton, 1980a)

O-D:Wvmf

Mafic flows (Chorlton, 1980a)

*Little Barachois
formation*

IO:WLI

Late Ordovician. Limestone (Dube and Lauziere, 1996a)

IO:WL

Late Ordovician. Rhyolite and associated pyroclastic and epiclastic rocks, locally quartz-feldspar-phyric; polygenic conglomerate with abundant felsic volcanic clasts, typically magnetic; greywacke and siltstone; black shale and graphitic shale; mafic volcanic rocks, mostly massive, locally pillowed and brecciated with magnetic jasper fragments; limestone; sericite and chlorite schist (Dube and Lauziere, 1996a)

Late Ordovician to Late Silurian

Kim Lake granite



Altered, brecciated and quartz-veined, pink, leucocratic granite containing secondary muscovite; stibnite occurs locally along joints (Dickson, 2000a)

Late Ordovician to Early Silurian

Southern Long Range mafic intrusions



Dunite, harzburgite, pyroxenite or olivine gabbro (van Berkel and Currie, 1988)



Massive to foliated, fine- to coarse-grained agmatite of gabbroic to quartz dioritic rocks; ultramafic blocks may be related to unnamed ophiolite units and portions may be equivalent to the Rainy Lake Complex or Pierre's Pond Plutonic Suite (comp. Whalen, 1993a)

Main Gut intrusion



Early Silurian. Tholeiitic gabbro, diorite, diabase and layered norite (Dunning et al., 1990)

Boogie Lake intrusion



Early Silurian. Plagiophyric gabbro (Kean, 1983)



Early Silurian. Medium- to coarse-grained gabbro, diorite and minor granitic rock; in places contains rafts of unseparated ophiolitic rocks (Kean, 1983)

Rainy Lake Complex



Fine- to coarse-grained, amphibole-clinopyroxene gabbro, diorite and quartz diorite, and amphibole-biotite granodiorite; also includes younger, red, fine-grained, biotite-amphibole, two-feldspar granite (Whalen and Currie, 1988)

Bottom Brook intrusion

OS:SB

Medium- to coarse-grained, massive to rhythmically layered gabbro, norite, diorite, pyroxenite, harzburgite and related rocks; minor granitic rocks (comp. Williams, 1985a; comp. Currie and van Berkel, 1992)

OS:r

Fine- to medium-grained gabbro intrusive into Ordovician age rocks (comp. Whalen, 1993a)

Badger Group

OS:Bsc

Massive to weakly cleaved, chert +/- rhyolite +/- granite +/- limestone +/- quartz pebble and cobble, thick- to very thick-bedded, clast-supported conglomerate and lesser very coarse- to coarse-grained chert-rich sandstone, all commonly displaying normal and reverse grading, scours and cross-lamination (comp. Dickson, 2000c)

OS:Bswm

Highly migmatized, medium- to thin bedded, grey to black, biotite semi-pelite (Dickson, 2000c)

OS:Bsw

Contact metamorphosed, thin- to medium-bedded, grey to buff, locally rusty, biotite psammite and semi-pelite commonly displaying parallel-lamination, cross-lamination, grading and locally scours; locally interbedded with chert-pebble conglomerate and very coarse-grained, chert clast-rich sandstone (Dickson, 2000c)

OS:Bswk

Massive, medium- to thick-bedded, uniform, medium-grained, grey sandstone (Dickson, 2000c)

OS:Bsw

Fine- to coarse-grained sandstone, minor conglomerate, siltstone, chert, and argillite (Evans et al., 1994a)

Goldson Formation

eS:BGc

Early Silurian. Coarse, buff, brown and red, polymict and oligomict conglomerate containing sub-angular to well rounded pebbles, cobbles and boulders of sedimentary, volcanic and plutonic rocks (comp. Currie and Williams, 1995)

eS:BGG

Early Silurian. Green Cove member: Fossiliferous shale and conglomerate that includes clasts of mafic volcanic rocks and black chert (comp. Currie and Williams, 1995)

Byrne Cove Melange

OS:BB

Melange consisting of chaotic deposits of sandstone, shale and conglomerate, and blocks of Ordovician basalt and tuff (comp. Arnott, 1983)

Joeys Cove Melange

eS:BJ

Early Silurian. Melange consisting of a fossiliferous matrix of siltstone, sandstone and pebbly mudstone, and blocks of Ordovician basalt, limestone and black shale (comp. Arnott, 1983)

Lewisporte conglomerate

OS:BL

Green, grey and minor red, very thick- to medium-bedded, variably cleaved, polymict conglomerate containing abundant chert, jasper and volcanic pebbles and locally fossiliferous limestone clasts, and interbedded with coarse-grained sandstone and minor siltstone (Dickson et al., 2000)

Goldson-type conglomerate

IO:BOpc

Late Ordovician. Point Leamington: Well-rounded, grey, boulder to cobble conglomerate containing distinctive clasts of reefal limestone (O'Brien, 1990a)

IO:BOpg

Late Ordovician. Point Leamington: Poorly sorted and stratified, grey, feldspathic and siliceous wacke (O'Brien, 1990a)

IO:BOp

Late Ordovician. Point Leamington: Boulder to cobble polymictic conglomerate, containing distinctive clasts of reefal limestone, and poorly sorted and stratified, grey, feldspathic wacke (O'Brien, 1990a)

OS:BO_n

New World Island: Thick-bedded polymict conglomerate; clasts include chert, siltstone, mafic and siliceous volcanic rocks, quartz-feldspar porphyry, granite and limestone (comp. Currie and Williams, 1995)

*Upper Black Island
greywacke*

OS:BU_c

Siliceous argillite and sandstone; feldspathic wacke, limy shale, chert and rare limestone; olistostrome containing reefal limestone, chert and wacke (O'Brien, 1991b)

OS:BU_g

Dark grey argillite and light grey sandstone rhythmites (O'Brien, 1991b)

OS:BU_h

Calcsilicate-rich, rose-coloured argillite interbedded with graded calcareous sandstone; hornfelsed pebbly wacke; minor chert; rare limestone breccia (O'Brien, 1992a)

*Point Leamington
Formation*

IO:BP_d

Late Ordovician. Dark grey, carbonaceous shale and light grey, quartzofeldspathic wacke; olistostrome with black shale matrix (O'Brien, 1990a)

IO:BP_g

Late Ordovician. Grey siltstone-grey sandstone rhythmites; feldspathic wacke interbedded with grey siltstone; slump sheets of partially disaggregated folds and rip-up blocks of black argillite, grey chert and limestone (O'Brien, 1991b)

IO:BP_n

Late Ordovician. Massive to weakly cleaved, medium to very-thick bedded, grey to buff, fine- to very coarse-grained feldspathic sandstone, pebbly sandstone and pebble conglomerate, commonly displaying parallel and cross-lamination, grading and scours; larger clasts are most commonly grey chert, jasper, basalt, plagioclase and quartz; interbedded with the Shoal Arm Formation at base of sequence (Dickson, 2000c)

IO:BP

Late Ordovician. Thinly bedded, interbedded greywacke, argillaceous greywacke and grey to black shale; several coarse conglomerate horizons; olistostrome with black shale matrix (comp. Williams et al., 1985; comp. O'Brien, 1990a)

Sansom-type greywacke

OS:BT

Thin- to medium-bedded turbiditic greywacke, containing siltstone and conglomerate interbeds (comp. Currie and Williams, 1995)

Campbellton greywacke

OS:BCa

Interstratified, light green and light grey, siliceous argillite (locally mottled, slumped or interlaminated with dark grey to black shale); minor light grey laminated chert; light grey shale with intervals of thin-bedded, graded concretionary sandstone; rare debris flows; light green shale and dark green argillite rhythmites; dark green and dark red intervals of sandstone and siliceous argillite; chert-pebble microconglomerate (O'Brien, 1992a)

OS:BCs

Dark-grey, green and red, locally fossiliferous, medium-bedded, variably cleaved pebble conglomerate and sandstone (Dickson et al., 2000)

OS:BCgh

Dark grey and black hornfels and agmatized greywacke intruded by granite, granodiorite and gabbro dykes and plugs (Dickson et al., 2000)

OS:BCgw

Basal, greenish grey, siliceous argillite interbedded with greenish grey shale; thin, light grey beds of sandstone (locally nodular) grading to cherty siltstone with dark grey to black shale laminae; thick-bedded, sandy-to-pebbly wacke interstratified with thin interbeds of graded, light grey sandstone and dark grey shale; minor polymictic conglomerate lenses; rare thin-bedded limestone (O'Brien, 1992a)

OS:BCgm

Grey and green, medium- and thin-bedded, cleaved, locally fossiliferous, fine-grained greywacke (Dickson et al., 2000)

OS:BC

Grey and green, medium- and thin-bedded, fine-grained greywacke, grey, green and red medium-bedded conglomerate and sandstone, and grey-green argillite, shale and chert (comp. Dickson et al., 2000)

Gull Island Formation

IO:BGm

Late Ordovician. Thin- to medium-bedded, biotite +/- muscovite +/- cordierite +/- garnet semipelite and psammite (Dickson, 2001)

IO:BG

Late Ordovician. Predominantly massive, quartz-rich, granular to pebbly wacke; minor thin- and thick-bedded, light grey sandstone turbidites; rare olistostromes; rare cobble conglomerate (with fossiliferous limestone clasts) along northwest margin of unit (Badger Bay to Sops Lake) (comp. O'Brien, 2001b)

Late Ordovician

Red Rocks granite

IO:R

Pink to red, mainly equigranular but locally microcline megacrystic, fine- to coarse-grained, two-mica granite (comp. Hall and van Staal, 1999)

Dragon Lake granite

IO:D

Coarse-grained, orange-pink, muscovite-biotite granite to monzogranite containing small microcline megacrysts (comp. Hall and van Staal, 1999)

Pin granite

IO:P

Coarse-grained, two-feldspar, leucocratic muscovite granite with large perthite grains (Chorlton and Knight, 1983)

Port aux Basques granite



Strongly lineated and foliated, pink or white trondhjemite, tonalite, granodiorite, granite and monzonite sheets with aplitic and pegmatitic phases (van Staal et al., 1996b)

Long Point Group

*Winterhouse
Formation*



Thin-bedded limy sandstone, limestone and shale; local thin olistostromal units (Williams, 1985a)

Lourdes Formation



Thin-bedded, fossiliferous limestone with local reefs; sandy limestone and cross-bedded sandstone at base (Williams, 1985a)



Black, pyritic, ribbon chert containing laminae of cleaved graphitic shale that locally contain graptolites of the D. clingani Zone (Caradoc) (comp. Dickson, 1996a; Williams, 1993b)



Black shale and minor siliceous slate, chert, argillite, and greywacke (Evans et al., 1994a)

*Lawrence Harbour
Formation*



Dark grey shale and laminated grey argillite (O'Brien, 1991a)



Black, carbonaceous shale; black, pyritiferous siltstone with black shale partings; brown-weathered, manganiferous chert, siliceous argillite and rare tuff; grey chert with bioturbated, black shale laminae (O'Brien, 1992a)

Main Point Formation



Graptolitic, black shale containing bedded chert and chert lenses (comp. Currie, 1995b)

Dark Hole Formation



Tuffaceous dark chert overlain by slaty argillite with minor thinly bedded siltstone layers (Williams et al., 1985)

Shoal Arm Formation



Highly metamorphosed, grey to black, cordierite pelite interbedded with minor thick-bedded, quartz-rich sandstone; probable metamorphic equivalent of Shoal Arm Formation (Dickson, 2001)



Black graptolitic slate interstratified with very thin beds of pyritic carbonaceous siltstone and dark grey siliceous argillite; minor interbedded grey sandstone; commonly strongly cleaved and locally displays tight, steeply plunging folds (comp. O'Brien, 2001b; comp. Dickson, 2000c)



Light grey, bioturbated chert containing rare black shale partings; light grey, thin-bedded to laminated, silicified wacke interbedded with green siliceous argillite and irregularly mottled sandstone (O'Brien, 2001b)



Red, radiolarian chert, red laminated argillite and red siliceous siltstone containing slump-folded nodules; maroon and green siltstone rhythmites (containing pyrolusite-bearing horizons) interbedded with turquoise chert (O'Brien, 2001b)



Massive, thin- to medium bedded, red (jasper), maroon, grey, white and purple (manganiferous) chert locally interbedded with very thin grey slate partings (Dickson, 2000c)



Red to green and black chert; black carbonaceous argillite and argillaceous siltstone; minor siliceous tuff (Dean, 1977g)

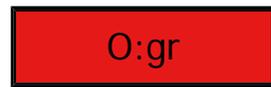
Middle Ordovician to Early Silurian

Porterville gabbro



Massive, epidotised, fine-grained gabbro (Dickson et al., 2000)

Middle to Late Ordovician



Massive to moderately foliated granodiorite and minor tonalite. with many small mafic to ultramafic fragments (Whalen and Currie, 1988)

Granby Island Formation



Dark grey to black slate, argillite, and greywacke; minor boulder conglomerate (Hibbard, 1983)

Goose Tickle Group

Mainland Formation

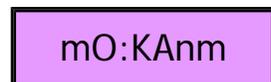


Cow Rocks Member: Crossbedded, grey to pink, quartz sandstone and grey limestone (Williams, 1985a)

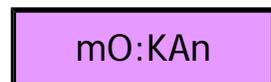


Grey to green micaceous greywacke characteristic of a mid submarine fan, turbidite deposit; convolute laminations have acted as nuclei for tan-weathering carbonate concretions at the tops of many beds (comp. Williams, 1985a; comp. Williams et al., 2001)

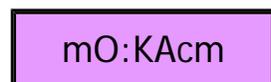
American Tickle Formation



Middle Ordovician. Melange (Knight et al., 1986a)



Middle Ordovician. Dark grey shale, green-grey sandstone, yellow weathering lime turbidite, slump breccia, shale-pebble conglomerate composed of green and black shale lithoclasts, lenses of limestone conglomerate, calcarenite and calcisiltite (comp. Knight et al., 1986a)



Middle Ordovician. Broken formation of phyllite, slate, shale, limestone, dolostone, sandstone and siltstone; also includes some green-grey and blue-grey phyllite of allochthonous origin (comp. Knight, 1996)

mO:KAc

Middle Ordovician. Grey phyllites, slate, shale, with interbedded thin-bedded limestone and dolostone, green-grey sandstone and siltstone; includes thin carbonate conglomerate beds; locally is melange-like, mixed with green-grey and blue-black shale (comp. Knight, 1994)

mO:KAi

Middle Ordovician. Medium- to thin-bedded, grey shale, grey sandstone, buff-weathering sandstone, local limy shale and limestone (Williams et al., 1984)

mO:KA_s

Middle Ordovician. Grey shale, thin-bedded grey sandstone, minor shale-clast conglomerate, beds of limestone conglomerate and breccia (comp. Knight, 2000)

mO:KA_{Dn}

Middle Ordovician. Daniel's Harbour Member: Limestone breccias of limestone, shale and rare sandstone lithoclasts set in a calcareous matrix, overlain by calcirudite, calcarenite and calcisiltite; basal pebbly mudstone is not everywhere present and is variable in thickness; unit lenses out and occurs as single or repeated interbeds in either the Black Cove or American Tickle formations (comp. Knight et al., 1986a; comp. Stenzel et al., 1990)

mO:KA_{DI}

Middle Ordovician. Daniel's Harbour Member: Medium to coarse limestone breccia with clasts of mainly Table Point limestone (Williams, 1985b)

mO:KA_{Ds}

Middle Ordovician. Daniel's Harbour Member: Limestone conglomerate lies directly on top of Table Point Formation and/or within the American Tickle Formation; may not be separated from shale of Black Cove Formation (comp. Knight, 2000)

mO:KAD

Middle Ordovician. Daniel's Harbour Member: Limestone breccia consisting of limestone, shale and lesser sandstone lithoclasts set in a calcareous mudstone matrix, overlain in most sections by calcirudite, calcarenite and calcisiltite; includes large rafts of Table Head Group limestones; the breccias occur as large lensoid bodies characterized by either 1) very thick amalgamated sequences of breccia, 2) single or multiple interbeds of unsorted breccias or 3) as a single normally graded sequence that generally feathers out; the member occurs at several stratigraphic levels within the American Tickle Formation and locally the Black Cove Formation and may rest directly on top of the Table Point Formation limestone (comp. Knight, in preparation; Stenzel et al., 1990)

Cape Cormorant Formation

mO:KC

Middle Ordovician. Coarse limestone breccia and conglomerate overlain by grey to black calcareous shales with limestone breccia units thinner and finer upwards (Williams, 1985a)

Black Cove Formation

mO:KB

Middle Ordovician. Black to dark grey, pyritiferous, graptolitic shale and mudstone, locally containing nodular limestone (comp. Stenzel et al., 1990)

O:K

Lower dark grey to black, graptolitic shale (Black Cove Formation) overlain by American Tickle Formation of dark grey shale interbedded with green-grey sandstone, siltstone and yellow- and grey-weathering, thin bedded limestone, dolomitic limestone and dolostone, and locally shale-pebble conglomerate; shales are metamorphosed to slates and phyllites in more deformed areas; thick intervals of massive-bedded, green-grey and green sandstone and pebbly sandstone known on Port au Port Peninsula only as the Mainland Sandstone; lenses of very thick limestone conglomerate and breccia and beds of limestone conglomerate overlain by calcarenite and calcisiltite (Daniel's Harbour Member); all units dismembered into melange-like deposits locally (Knight, in preparation)

Middle Ordovician

mO:ls

Impure, fossiliferous and pyritiferous limestone conglomerate and calcarenite, containing ophiolitic detritus (comp. Colman-Sadd et al., 1992)

Gummy Brook gabbro

mO:GB

Medium-grained equigranular gabbro sills; minor dark grey diorite sheets; coarse-grained glomeracrycitic gabbro and diabase (in places cutting epidotized and saussuritized gabbro); pre-tectonic relative to structures in the Exploits Subzone (O'Brien, 2001b)

Thwart Island gabbro

mO:H

Layered or massive, medium- to coarse-grained, hornblende-pyroxene gabbro sills (comp. Dickson et al., 2000; comp. Dickson, 2000c)

Ebbegunbaeg Hill granite

mO:E

Lineated or foliated, fine- to medium-grained, equigranular biotite granite (Colman-Sadd and Swinden, 1989)

Great Burnt Lake granite

mO:BL

Strongly foliated or mylonitic, pink to white, mostly megacrystic, biotite granite (comp. Colman-Sadd et al., 1992)

Through Hill Granite

mO:TH

Garnet-tourmaline-muscovite pegmatitic granite (Colman-Sadd, 1985a)

mO:gp

Garnet-tourmaline-muscovite pegmatitic granite, related to the Through Hill Granite (Colman-Sadd and Russell, 1988)

mO:gm

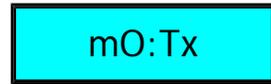
Medium-grained, biotite-muscovite granite (Colman-Sadd and Russell, 1988)

Lewaseechjeech Brook plutonic suite



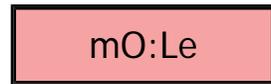
Massive to slightly foliated, beige, quartz-eye porphyritic, biotite-hornblende tonalite to granodiorite (Whalen, 1993a)

Table Head Group



Recrystallized limestone and deformed grey to white marble, derived by metamorphism of Table Head Group (comp. Williams et al., 1983)

Lewaseechjeech Brook plutonic suite



Foliated, buff, equigranular, hornblende-biotite granodiorite (Whalen, 1993a)

Table Head Group



Undivided white to grey marbles in parautochthon adjacent to Hare Bay Allochthon (Knight et al., 1986b)

Lewaseechjeech Brook plutonic suite



Foliated, white and pink, potassium-feldspar-porphyritic, hornblende-biotite granodiorite (Whalen, 1993a)

Table Head Group

Table Cove Formation



Dark grey, bioturbated and fossiliferous, argillaceous stylonodular limestone overlain by planar-bedded, ribbon limestone and black to dark grey shale; rich in shelly, graptolitic and radiolarian fossils; abundant slump folds, synsedimentary faults, slump scars, truncation surfaces and quasi slump breccias; varies dramatically in thickness and is absent in many areas (comp. Stenzel et al., 1990)

Table Point Formation



Limestone breccia formed essentially in place (Knight et al., 1986a)

mO:TPnn

Dark grey, thickly bedded, fossiliferous limestone characterized by argillaceous seams; beds of grainstone occur locally; the top of the formation is composed of crinoid-trilobite-brachiopod grainstone-packstone and is fractured, with shale infilling fissures; in eastern thrust slices, the top of the formation is probably eroded and is encrusted by silica-ferruginous-carbonate cement (Knight et al., 1986a)

mO:TPnsd

Buff to brown-weathering, black to grey, fine to medium crystalline, sucrosic and locally salt-and-pepper-textured dolostone replacing limestone as large to small, stratiform to irregular cross-cutting bodies, some of which are spacially adjacent and aligned parallel to faults; the dolostones may be tight or host a range of porosity; white to pink sparry dolomite veins, vug cements and fabric-selective zones occur locally in the dolostones (comp. Knight, 1985; comp. Knight, 1991b)

mO:TPns

Well bedded, dark grey, fossiliferous limestone with characteristic dolomitic-argillaceous seams (Knight, 1991b)

mO:TPn

Thick-bedded to massive, dark grey, fossiliferous, bioturbated, stylonodular limestone with characteristic dolomitic-argillaceous seams, beds of grainstone and sponge-bryozoan mounds and biostroms locally; the top of the formation may be marked by 1) fossiliferous sponge-bioherms 2) crinoid-trilobite-brachiopod grainstone-packstone, 3) stromatactis-microbial-mudstone mounds (Burnt Island), 4) erosional surface impregnated by secondary silica-ferruginous carbonate cements; 5) narrow, metre-deep, black shale-filled fissures; or 6) limestone breccias/conglomerate assigned to the Daniel's Harbour Member (comp. Knight et al., 1986a; comp. Stenzel et al., 1990)

mO:TPcx

Upper unit of rubbly to lumpy, stylolitic, limestone breccia; locally well developed coarse limestone breccia containing large carbonate rafts set in a muddy to fine-grained carbonate matrix (Knight, 1994)

mO:TPcl

Dark grey, thick-bedded, stylolitic to stylonodular, predominantly fine-grained limestone, sparsely fossiliferous except locally rich in crinoids, chert; some units of planar thin-bedded, fine-grained limestone (resembling limestone of the Table Cove Formation) occur southwest of Corner Brook (comp. Knight, 1994)

mO:TPc

Predominantly dark grey, thick-bedded, stylolitic to stylonodular limestone locally displaying abundant crinoid detritus, rare fossils and chert. Rubbly to lumpy, stylolitic, limestone breccia and locally well developed coarse limestone breccia containing large carbonate rafts, set in a muddy to fine-grained carbonate matrix, at the top of the unit (Daniel's Harbour Member) (comp. Knight, 1994)

mO:TPSn

Spring Inlet Member: Metre-scale sequences of 1) stylonodular, parted and bioturbated, dark grey, dolomitic limestone overlain by laminated dolostone and dolomitic limestone, scattered beds of oncolitic intraclastic rudstone, brachiopod coquina and cross-laminated grainstone occur locally; and/or 2) light grey to off-white, bioturbated, dominantly peloidal and fenestral muddy limestones interbedded with laminated fenestral limestone; a basal conglomerate with dolostone, limestone and chert sand and pebbles lies locally upon the St. George Unconformity; widely ranging thickness variations; intra-member erosional disconformities occur locally (comp. Knight and Cawood, 1991; comp. Stenzel et al., 1990)

mO:TPSwd

Spring Inlet Member: Grey, dark grey to black, fine to medium crystalline, often salt-and-pepper-textured, sucrosic dolostones with pink to white sparry dolomite veins and irregular zones that replace burrow-mottled, stylobedded and crossbedded limestones; interbeds of microcrystalline dolostone; and/or buff-weathering, light brown to pale grey, often porous, fine to medium crystalline, sucrosic dolostone that displays fenestral, burrow-mottled and laminated fabric of original limestone facies (comp. Knight, 1991b)

mO:TPSwl

Spring Inlet Member: Metre-scale sequences of 1) stylonodular, parted and bioturbated, dark grey, dolomitic limestone overlain by laminated dolostone and dolomitic limestone; cross-laminated and cross-bedded grainstone occur locally; and/or 2) light grey to off-white, bioturbated, dominantly peloidal and fenestral muddy limestones interbedded with laminated fenestral limestone (comp. Knight, 1991b)

mO:TPSc

Spring Inlet Member: Interbedded grey and light grey limestone and dolostone; limestone includes parted, stylolitic, bioturbated and locally grainy types, some oncolitic beds, and rare fossils; dolostone is massive or laminated (Knight, 1994)

Lewaseechjeech Brook plutonic suite

mO:Lw

Foliated, white, equigranular, biotite-hornblende granodiorite to tonalite (Whalen, 1993a)

Table Head Group

Table Point Formation

mO:TP

Dark grey to light grey, thick to massive bedded, stylonodular, fossiliferous, dominantly fine grained, argillaceous and dolomitic limestone; locally grainstone; locally interbedded with fenestral limestone and dolostone near the base; localized basal conglomerate, minor sponge-bryozoan bioherms, some large slump units and locally a conglomeratic aspect; locally replaced by sucrosic dolostones (comp. Knight, in preparation)

mO:T

Largely comprises dark grey to light grey, thick to massive bedded, stylonodular, fossiliferous, dominantly fine grained, argillaceous and dolomitic limestone; locally grainstone; locally interbedded with fenestral limestone and dolostone near the base; minor sponge-bryozoan bioherms and large slump units and locally a conglomeratic aspect (Table Point Formation) overlain locally by fine-grained, fossiliferous and graptolitic, parted, stylonodular and ribbon limestone and shale (Table Cove Formation); carbonate conglomerate and megaconglomerate interbedded with calcarenite, ribbon limestone and green-grey to black shale occurs locally at the top on Port au Port Peninsula (Cape Cormorant Formation) (comp. Stenzel et al., 1990; comp. Knight and Cawood, 1991)

Early Ordovician to Late Devonian

O-D:iq

Pink to grey granodiorite, quartz-feldspar porphyry and dacitic stocks (Kean et al., 1994b)

O-D:ig

Fine-to coarse-grained, aphyric to porphyritic, diabase and gabbro (Kean et al., 1994b)

Early Ordovician to Late Silurian

*Suley Ann Cove
pluton*

OS:A

White to grey, medium-grained tonalite, quartz monzonite and quartz-feldspar porphyry (Kean et al., 1994b)

OS:md

Weakly foliated, fine-grained, equigranular mafic dykes (Colman-Sadd, 1980)

OS:bd

Metadiabase dykes (Chorlton, 1980a)

OS:m

Fine- to medium-grained gabbro and diorite with minor diabasic phases (Kean, 1979a)



Schistose and folded, medium- to thin-bedded, grey biotite psammite, semipelite, migmatite and minor felsic tuff; all probably contact metamorphosed by the Hodges Hill intrusive suite (Dickson, 2000c)

Early Ordovician to Early Silurian

Duder Group



Paper schist of shale and siltstone containing rare large blocks of igneous rocks (comp. Currie and Williams, 1995)



Disrupted gabbro, basalt, felsite, fragmental volcanic rock and tuff, brecciated and boudined in a homogenized, sheared matrix of greenish-black mudstone and shale (comp. Currie and Williams, 1995)

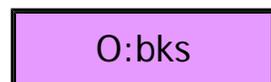


Olive to buff, micaceous siltstone-shale rhythmities, containing conglomerate and olistostrome beds (comp. Currie and Williams, 1995)



Conglomerate consisting of granitoid boulders (Currie, 1995a)

Early to Late Ordovician



Black, graphitic, well-cleaved shale and siltstone containing graptolites ranging in age from late Arenig to early Ashgill (comp. Dickson, 1996a; comp. Williams and Tallman, 1995)



Pink, fine- to medium-grained, biotite+/-muscovite granite and aplite (Whalen and Currie, 1988)

Hinds Brook Granite



White to pink, medium- to coarse-grained, biotite-amphibole, K-feldspar-porphyritic, two-feldspar granite (Whalen and Currie, 1988)



Quartz-biotite and graphitic schist, probably derived from the Salmon River Dam or Cold Spring Pond formations (comp. Colman-Sadd and Swinden, 1989)

O:mtp

Poorly bedded to unbedded, medium-grained psammitic schist, containing varying proportions of quartz and granite swears; probably derived by metamorphism of the Salmon River Dam or Cold Spring Pond formations (Colman-Sadd and Swinden, 1989)

Cold Spring Pond Formation

O:VN

North Salmon Dam Basalt: Pillow lava and lesser amounts of massive basalt; minor hyaloclastite (Swinden, 1988)

O:Vt

Grey or dark green to black, siliceous tuff with abundant quartz crystals, and local concentrations of feldspar crystals and/or lithic fragments; local epiclastic sandstone; locally associated with limestone (comp. Colman-Sadd and Swinden, 1989; comp. Dickson, 1990c)

O:Vsg

Grey and green, thin bedded slate and minor sandstone (Dickson, 1990c)

O:Vsp

Dark green, thinly bedded shale or phyllite (Colman-Sadd and Swinden, 1989)

O:Vsc

Polymictic, unstratified to poorly stratified boulder and pebble conglomerate (Colman-Sadd and Swinden, 1989)

O:Vssb

Thin bedded, black, highly folded and commonly quartz-veined, graphitic slate, argillite and siltstone (comp. Colman-Sadd and Swinden, 1989; comp. Dickson, 1990c)

O:Vss

Grey to green argillite, arkosic sandstone, siltstone and laminated shale or phyllite, forming turbidite sequences; minor conglomerate and black argillite (Swinden, 1988; Colman-Sadd and Swinden, 1989)

O:i

Grey, foliated and sheared, medium-grained, equigranular, biotite granodiorite (Dickson, 1987)

Baie d'Espoir Group

O:Ym

Mafic to intermediate volcanoclastic rocks, felsic crystalline tuff and minor basalt (Blackwood et al., 1984)

North Steady Pond Formation

O:YNvmc

Predominantly green chloritic schist, probably derived from mafic volcanic rocks; tentatively assigned to the Baie d'Espoir Group (Swinden, 1988)

O:YNvmx

Mafic volcanic breccia and basalt flows (Colman-Sadd, 1980)

O:YNvfv

Felsic and intermediate flows, and crystal or lithic tuffs; includes minor unseparated andesite and mafic tuff (Colman-Sadd, 1985a)

O:YNscq

Pebble to cobble, polymictic conglomerate and locally interbedded, quartzo-feldspathic, volcanoclastic rocks; tentatively assigned to the Baie d'Espoir Group (comp. Swinden, 1988)

O:YNsc

Polymictic, pebble to boulder conglomerate; minor sandstone (Swinden, 1988)

O:YNssu

Green, fine- to medium-grained, unstratified, quartzo-feldspathic, epiclastic sandstone and conglomerate (Swinden, 1988)

O:YNsst

Thin-bedded, arkosic siltstone and phyllite (Colman-Sadd, 1985a)

O:YNssm

Medium-bedded, arkosic sandstone, pelite and phyllite; in NTS 2D/4 locally includes felsic volcanic rocks; in NTS 2D/3 is locally contact metamorphosed or highly altered with associated scheelite mineralization (comp. Colman-Sadd, 1985a; comp. Dickson, 2000a)

O:YNsss

Grey to buff, thin-bedded sandstone with minor siltstone (Dickson, 2000a)

O:YN

Graded volcanoclastic, arkosic sandstone interbedded with greenish-grey, laminated siltstone, shale and phyllite; locally includes polymict conglomerate, graphitic shale, and felsic, intermediate and mafic volcanic flows and/or pyroclastic rocks (Williams et al., 1985)

St. Josephs Cove Formation

O:YJsc

Polymictic conglomerate and sandstone (Blackwood and Green, 1983)

O:YJsbs

Graphitic slate and grey siltstone (Blackwood and Green, 1983)

O:YJsbp

Thin-bedded, black with white patches, quartz-veined, graphitic pelite and siltstone (Dickson, 2000a)

O:YJsb

Graphitic slate and siltstone, locally with thin interbeds of coarse-grained sandstone (Colman-Sadd, 1980; comp. Dickson, 2000a)

O:YJspc

Thick beds of grey, brown-weathering, graded sandstone, grit and minor conglomerate (comp. Colman-Sadd, 1976)

O:YJspm

Grey to buff, medium-bedded slate, siltstone and sandstone (Dickson, 2000a)

O:YJsp

Thin-bedded brown-weathering, slightly calcareous siltstone and fine-grained sandstone, medium- to thick-bedded, dark grey shale or slate, and minor thin-bedded, fine-grained quartz-sericite schist; locally includes thick beds of sandstone, grit and minor conglomerate (comp. Williams et al., 1985)

O:YJsg	Green-grey pelite and siltstone (Colman-Sadd, 1980)
O:YJvf	Light greenish-grey, pyritiferous felsic tuff (comp. Colman-Sadd, 1976)
O:YJvm	Mafic to intermediate volcanoclastic rocks, felsic crystalline tuff and minor basalt (Blackwood and Green, 1983)
O:YJT	Early to Middle Ordovician. Twillick Brook Member: Cleaved, unbedded or very thick-bedded, coarse-grained quartz-feldspar-crystal tuff and quartz-crystal tuff contained in a fine-grained greenish grey matrix; locally contains minor interbeds and lenses of sandstone and siltstone; locally altered and weathered to form gossans in NTS 2D/3; parts of the unit in NTS 2D/6 may be intrusive quartz-feldspar porphyry (comp. Dickson, 2000a; comp. Blackwood and Green, 1983)
O:YJ	Thin-bedded brown-weathering, slightly calcareous siltstone and fine-grained sandstone, medium- to thick-bedded, dark grey shale or slate, and minor thin-bedded, fine-grained quartz-sericite schist; locally includes graphitic slate and thick-bedded sandstone and conglomerate; also includes felsic volcanic rocks, principally belonging to the Twillick Brook Member, and minor mafic to intermediate volcanic rocks (comp. Williams et al., 1985)
<i>Isle Galet Formation</i>	
O:YIspm	Grey, cleaved, medium-bedded sandstone, siltstone and slate (comp. Dickson, 1987)
O:YIspt	Grey, medium to thick-bedded slate, siltstone and sandstone (Dickson, 1987)
O:YIsg	Thick- to medium-bedded, grey to buff, cleaved, locally cross-bedded and graded, micaceous, locally calcareous sandstone with minor interbedded slate (Dickson, 2000a)

O:Ylsqc

Medium to coarse-grained, strongly cleaved, poorly sorted sandstone and pebble conglomerate, containing abundant clasts of felsic volcanic rocks and quartz-sericite schist (Dickson, 1987)

Carmanville Melange

O:HC

Melange consisting of fragments of pillow basalt, gabbro, trondhjemite, ultramafic rocks, siltstone and sandstone in a matrix of black graphitic shale and pebbly mudstone (comp. Currie, 1995b; comp. Johnston et al., 1994)

Noggin Cove Formation

O:HN

Volcaniclastic conglomerate and sandstone, pillowed and massive basalt with interstitial carbonate lenses, mafic dykes, bedded tuff, lapilli breccia and minor black shale (comp. Johnston et al., 1994)

Boones Point Complex

O:BP

Polymictic blocks in scaly-foliated melange, straightened metasedimentary and metavolcanic rocks, and mylonite; mainly derived from the Moores Cove Formation of the Cottrells Cove Group, but includes blocks probably derived from other units of the Notre Dame and Exploits subzones (comp. O'Brien, 1991b)

Sops Head Complex

Tectonized block-in-matrix melange unit

O:MM

Dark grey melange dominated by small polyolithic blocks having internal foliations or internal folds; platy, pyrite-rich, black phyllite or pelitic schist (locally forming the matrix of the melange belt or representing an original mudstone-bearing map unit); minor porphyroclastic schist derived from semi-psammite and metabasite; minor red-matrix melange derived from hematitic basalt and protomylonite; minor green-matrix melange derived from chloritic basalt and cataclasite (O'Brien, 2001b)

Broken olistostromal units

O:MOI

Middle to Late Ordovician. Sparry Limestone: conodont-bearing limestone in stratigraphic contact with various basalt types in discrete volcanic blocks; limestone beds forming solitary carbonate megablocks and smaller olistoliths in melange; limestone clasts resedimented along with monolithic basalt clasts in alternating muddy and calcareous debrites; banded marble interstratified or tectonically interlayered with pyritic black argillite (O'Brien, 2001b)

O:MOv

Basalt Flows: internally fractured, marginally shattered, epidotized basalt (injected by green epiclastic wacke, itself impregnated with black mudstone); massive, light green, fine grained, silicified basalt (in depositional contact with siliciclastic and calcareous sedimentary strata within map-scale blocks); pillow breccia and hematized basalt (resedimented with jasper and chert in red siliceous debrite); minor olistoliths of basalt breccia (chilled against mudstone) in a matrix of fractured volcanoclastic wacke; the above rocks are seen in dominantly sand-matrix debrite belts. The dominantly mud-matrix debrite belts display light green and dark grey aphanitic basalt (injected by black mudstone) and porphyritic vesicular basalt (augened by featureless black mudstone, or wrapped by partially broken interbeds of pyritic black argillite and dark grey laminated siltstone, or partly enclosed by black pebbly mudstone). Similar to rocks of the Pennys Brook Formation of the Wild Bight Group and the Crescent Lake Formation of the Roberts Arm Group (O'Brien, 2001b)

O:MOt

Mottled Turbidite and Variegated Chert: green and grey, parallel- and cross-laminated, rhythmically interbedded, siliceous turbidites having mottled and nodular texture (forming mottled olistoliths within unmottled pebbly mudstone); minor red, green and grey chert interbedded with laminated siliceous argillite (O'Brien, 2001b)

O:MOc

Polymictic Conglomerate: thickly stratified, poorly sorted, graded conglomerate beds with distinctive basalt, limestone and granite boulders (partly or completely enclosed by chaotically deformed sandy debrite); small, massive, buff-weathered conglomerate blocks (within muddy debrites); conglomeratic turbidite lenticles (preserving erosive bases above black pyritic argillite and channels within interstratified sandstone turbidites) (O'Brien, 2001b)

O:MOb

Black Argillite - Pebbly Mudstone: sulphidic pebbly mudstone (showing in situ fragmentation of slumped grey siltstone and black argillite beds); basalt block-in-argillite within conglomerate block-in-argillite within pebbly mudstone or sandy debrite; stratiform intervals of coherently bedded black argillite (forming a substrate, devoid of chert, to basalt or conglomerate sequences) (O'Brien, 2001b)

O:MOw

Massive Wacke: buff weathered, massive, granular wacke completely or partially surrounding polyolithic blocks in debrites; minor, partially disaggregated interbeds of light grey wacke and dark grey argillite (O'Brien, 2001b)

*Unbroken
lithostratigraphic
units*

O:MLc

Interbedded, red and green chert; deep red and bright red, thin-bedded, laminated argillite; green and grey, medium-bedded, fine-grained, siliceous, sandstone turbidite; locally interlayered with or stratigraphically overlies basalt flows or breccia (subunit v) (comp. O'Brien, 2001b)

O:MLv

Light green, variably porphyritic, basalt flows; massive, poorly stratified and well graded basalt breccias; minor flow-foliated, vesicular basalt; rare pillow breccia with epiclastic or calcareous cement; rare, grey, aphanitic, mafic to intermediate, volcanic flows (O'Brien, 2001b)

O:MLb

Thinly bedded, grey, banded, microcrystalline chert interstratified with sulphidic and siliceous, black argillite; minor, buff-weathered, light grey, net-veined and recrystallized chert; these rocks are interlayered with or stratigraphically overlie turbidites of subunit t (comp. O'Brien, 2001b)

O:MLt

Mottled, green and grey, parallel- and cross-laminated, siliceous turbidites; nodular, fine-grained, thin-bedded, graded sandstone containing mud microflakes and sandstone dykelets; rhythmic interbeds of dark green, cherty siltstone and dark grey, banded argillite; both overlies and underlies basalt flows and breccias (subunit v) and is in depositional contact with the New Bay Formation of the Exploits Group (comp. O'Brien, 2001b)

O:ML

Siliceous turbidites, including graded sandstone, cherty siltstone and banded argillite; chert interstratified with black argillite; interbedded red and green chert, red argillite, and green and grey sandstone; basalt flows and breccia (comp. O'Brien, 2001b)

Harbour Le Cou Group

Grandy's formation

O:CUGa

Amphibolite (Chorlton, 1980a)

O:CUGb

Laminated phyllite, graphitic schist (Chorlton, 1980a)

O:CUG

Mainly thin-bedded, rusty sulphidic pelite to semipelite (biotite-muscovite-garnet-sillimanite schist) and minor psammite with thin bands of cotecule; sparse to absent amphibolite; includes some narrow sheets of Rose Blanche Granite (van Staal et al., 1996b)

Otter Bay formation

O:CUOv

Sheets of garnet- and/or clinopyroxene-bearing, locally pillowed, amphibolite (van Staal et al., 1996b)

O:CUOs

Mainly thick- to medium-bedded psammite with thin beds of rusty, sulphidic pelite (biotite-muscovite-garnet-sillimanite schist); calc-silicate pods or lenses are common in thick psammite beds; includes some narrow sheets of Rose Blanche Granite (comp. van Staal et al., 1996b)

O:CU

Thick- to medium-bedded psammite with thin beds of rusty, sulphidic pelite and sheets of garnet- and/or clinopyroxene-bearing, locally pillowed, amphibolite; calc-silicate pods or lenses are common in thick psammite beds; thin-bedded, rusty sulphidic pelite to semipelite, minor psammite with thin bands of coticule and sparse to absent amphibolite; sulphidic pelite and semipelite metamorphosed to biotite-muscovite-garnet-sillimanite schist; includes some narrow sheets of Rose Blanche Granite (comp. van Staal et al., 1996b)

Pierre's Pond plutonic suite

O:Pgws

Strongly sheared to mylonitic, white, medium-grained, equigranular, hornblende-biotite granodiorite occurring along Red Indian Line (comp. Whalen, 1993a)

O:Pgw

Foliated, white, medium-grained, equigranular, hornblende-biotite granodiorite (Whalen, 1993a)

O:Pgp

Foliated, pink, feldspar-porphyrific, biotite-hornblende granodiorite (Whalen, 1993a)

O:Pm

Foliated to massive, grey to black, fine- to medium-grained, hornblende +/- biotite gabbro to diorite; includes a texturally diverse group of mafic to intermediate intrusive rocks (Whalen, 1993a)

O:Pt

Moderately to strongly foliated, beige, blue quartz-eye porphyritic, hornblende tonalite (Whalen, 1993a)

Lockers Bay Granite

O:LBg

Foliated, coarse grained, microcline megacrystic granite and granodiorite. (O'Brien et al., 1987; comp. Blackwood et al., 1984)

O:LB

Coarse-grained, microcline, megacrystic, biotite granite. It is overprinted by a penetrative foliation, commonly with a cataclastic component. (Williams et al., 1985)

O:n

Grey, mainly fine-grained, equigranular, nebulitic hornblende granite, containing ubiquitous xenoliths of Cinq Cerf Gneiss (comp. O'Brien and O'Brien, 1989)

Migmatites associated with Burgeo Intrusive Suite

O:mbsy

Mylonitized migmatite, paragneiss, amphibolite, associated granitoid, and variably migmatized and recrystallized pelitic and semipelitic schist (comp. O'Brien and Dickson, 1986)

O:mbs

Migmatite, paragneiss, amphibolite; associated granitoid; variably migmatized and recrystallized pelitic and semipelitic schist (O'Brien and Dickson, 1986)

O:in

Biotite granite and granodiorite (Kean, 1982)

O:gt

Fine- to coarse-grained, equigranular granodiorite and tonalite (Kean et al., 1994b)

Long Island pluton

O:LI

Grey to black, medium-grained granodiorite, diorite and gabbro exhibiting multiphase intrusion breccias; minor granite aplite (Kean et al., 1994b)

Dolland quartz diorite

O:DI

Grey to black, medium-grained quartz diorite and minor gabbro (Kean et al., 1994b)

Cooper's Cove pluton



Tonalite, quartz-diorite, diorite and gabbro (Kean et al., 1994b)



Medium- to coarse-grained, biotite, hornblende, quartz-monzonite, granodiorite and granite (Kean et al., 1994b)

Colchester Pluton



Green, medium- to coarse-grained diorite and gabbro (Kean et al., 1994b)



Medium-grained quartz-diorite to tonalite (Kean et al., 1994b)



Light-green, medium-grained granodiorite and tonalite (Kean et al., 1994b)

Wellman's Cove pluton



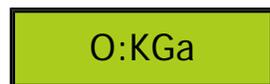
Grey to black, medium-grained diorite, quartz diorite and gabbro with extensive xenoliths of mafic and ultramafic rocks; diabase and red felsic dykes (Kean et al., 1994b)

Bob Head pluton



Medium- to coarse-grained gabbro and diorite; grey to pink, quartz monzonite with mafic xenoliths (Kean et al., 1994b)

Keepings Gneiss



Amphibolite (Chorlton, 1980a)



Massive and banded, felsic, amphibolite facies schists, with intermediate to mafic lenses; quartzofeldspathic gneiss; commonly migmatitic; sedimentary features preserved locally (comp. Williams et al., 1985)

Cormacks Lake Complex



Charnockitic clinopyroxene + garnet +/- orthopyroxene syenogranite to granite (comp. Pehrsson et al., 2003)



Early Ordovician. Orthogneiss: garnet-hornblende-clinopyroxene granodiorite, locally with blue quartz eyes (comp. Pehrsson et al., 2003)



Early Ordovician to Late Cambrian. Metagabbro (van Berkel, 1987b)



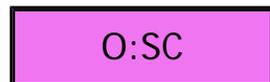
Early Ordovician to Late Cambrian. Amphibolite; garnet-hornblende +/- clinopyroxene layered metavolcanic rocks (comp. Pehrsson et al., 2003)



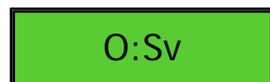
Early Ordovician to Late Cambrian. Paragneiss: cordierite-gedrite gneiss, psammite, pelite calc-silicate gneiss (comp. Pehrsson et al., 2003)

Summerford Group

Cobbs Arm Limestone



Middle to Late Ordovician. Dark, silty limestone overlain by white, crystalline limestone; the limestone is fossiliferous (comp. Williams et al., 1985)



Early to Middle Ordovician. Mafic pillow lava, breccia and agglomerate; limestone lenses, discontinuous limey tuff and arkose (comp. Williams et al., 1985)

Early to Middle Ordovician

Mary Ann Lake granite

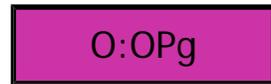


Weakly to strongly foliated, medium-grained, white to buff, equigranular, two-feldspar, biotite granite and granodiorite commonly containing psammite, semi-pelite and amphibolite xenoliths; commonly rust coloured where biotite-rich psammite xenoliths are abundant; granite dated by U/Pb (zr) at 463 +/- 4 Ma (Dickson, 2000c)

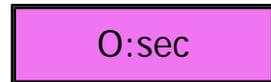
Otter Pond complex



Massive to foliated gabbro to diorite, characteristically containing brown hornblende oikocrysts and phenocrysts (van Staal et al., in press)



Massive to weakly foliated, buff to pink, fine- to medium-grained, hornblende +/- biotite granodiorite to tonalite (van Staal et al., in press)



Brown, very thick-bedded, poorly sorted, oligomictic, ultramafic-cobble and pebble conglomerate, and coarse-grained sandstone (comp. Dickson, 1996a)

Grapnel gabbro



Medium-grained, massive, hornblende-biotite gabbro (comp. Hibbard and Williams, 1979)

Coaker porphyry



Quartz porphyry containing ultramafic inclusions and, locally, garnet xenocrysts (comp. Currie and Williams, 1995)

Puncheon diorite



Zoned intrusion of gabbro, diorite and monzonite (Currie and Williams, 1995)

Phillips Head Igneous Complex



Vesicular, pyroxene-plagioclase, porphyritic diorite; autobrecciated diorite containing ophitic pyroxene, hornblende and feldspar megacrysts; local swarms of diabase dykes (Dickson et al., 2000)



Bedded pillow lava and pillow breccia containing interstratified, epiclastic sandstone that grades to green argillite (Dickson et al., 2000)

Snowshoe Pond granite

O:SPp

Medium-grained, foliated, pink and red, biotite granite with clinopyroxene in places; tentatively assigned to Snowshoe Pond granite (comp. Kean, 1983)

O:SPr

Red, medium-grained, foliated biotite granite (Kean, 1983)

O:SPg

Grey, foliated (locally with millimetre gneissose banding), biotite granodiorite (Kean, 1983)

O:SPc

Highly deformed, generally cataclastic, granodiorite and granite; intruded by granodiorite, granite, aplite and pegmatite; locally contains inclusions of paragneiss and amphibolite (Kean, 1982)

O:SP

Equigranular or locally megacrystic, mylonitic to weakly foliated, medium-grained, grey, pink or red, biotite granite and granodiorite (comp. Colman-Sadd, 1987)

O:riq

Massive, buff, weakly deformed, equigranular, hornblende quartz diorite (Dickson, 2001)

O:rig

Massive, black, metamorphosed, coarse-grained, pyroxene (hornblende) gabbro (Dickson, 2001)

Roberts Arm Group

O:Rg

Gabbro, hornblende gabbro (Bostock, 1988)

O:Rvf

Greyish-green to grey and white rhyolite and dacite flows, agglomerate, tuff and sills; includes quartz-sericite schist (Swinden and Sacks, 1996)

Northwest Cove granite

S:Nm

Foliated, pink, medium-grained, equigranular, muscovite granite (Colman-Sadd et al., 1979)

S:Nb

Foliated, pink, medium-grained, equigranular, muscovite-biotite granite (Colman-Sadd et al., 1979)

*Rogerson Lake
Conglomerate*

S:Rr

Red conglomerate with thin lenses of red sandstone and siltstone (Kean and Mercer, 1981)

S:R

Grey, purple, green and red conglomerate and, locally, micaceous and cross-bedded, arkosic sandstone (comp. Evans et al., 1994a)

*Rogerson Lake
Conglomerate?*

S:R?

Polymict conglomerate with minor sandstone beds (comp. Colman-Sadd and Russell, 1988)

S:dg

Diabase, diorite and gabbro sills (King, 1988)

*Southwest Brook
granite*

S:SW

Pink, massive, fine-grained, granophyric granite (Dickson et al., 2000)

Early Silurian

King's Point Complex

Intrusive rocks

eS:Klg

Fine- to medium-grained granite and quartz syenite, containing feldspar as single crystals of microperthite and plagioclase or in graphic quartz-feldspar intergrowths; amphibole is an accessory mineral (Miller and Abdel-Rahman, 2003)

eS:Kly

Pale reddish brown to light brownish grey, feldspar +/- quartz-porphyritic syenite and granite, and less common equigranular varieties; microperthite is commonly the dominant feldspar, and the matrix commonly contains graphic intergrowths of quartz and feldspar, and accessory magnetite, clinopyroxene and amphibole (Miller and Abdel-Rahman, 2003)

Volcanic rocks

eS:KVua

Upper volcanic rocks: Amphibole-porphyritic ash-flow tuffs, characteristically containing oikocrystic phenocrysts or aggregates of black amphibole; tuffs range from highly welded and compacted, layered, ash flows, through more massive oikocrystic amphibole and red-spotted ash flows, to massive or layered aphyric flows containing fine-grained amphibole and aegirine microphenocrysts in the groundmass; quartz and feldspar phenocrysts are sparse; contact, stratigraphic and other relationships suggest that the tuffs formed within a ring dyke or near the vent of a ring-fault system (Miller and Abdel-Rahman, 2003)

eS:KVuf

Upper volcanic rocks: Quartz-feldspar-porphyritic ash-flow tuffs and breccias, and possible hypabyssal intrusive equivalents forming ring dykes; feldspar is microperthitic, and amphibole and rare clinopyroxene occur as accessory minerals (Miller and Abdel-Rahman, 2003)

eS:KVue

Upper volcanic rocks: Sparsely quartz-feldspar-porphyritic and aphyric ash-flow tuff (Miller and Abdel-Rahman, 2003)

eS:KVup

Upper volcanic rocks: Sparsely quartz-feldspar-porphyritic ash-flow tuff (Miller and Abdel-Rahman, 2003)

eS:KVu

Upper volcanic rocks: Aphyric to sparsely porphyritic ash-flow tuffs, quartz-feldspar +/- amphibole-porphyritic ash-flow tuffs and intrusive equivalents, and amphibole-bearing ash-flow tuffs (comp. Miller and Abdel-Rahman, 2003)

eS:KVm

Middle volcanic rocks: Aphyric to sparsely porphyritic, to porphyritic and lithophysae-bearing ash-flow tuffs, ash-flow lapilli-tuffs and breccias; plagioclase is the most common feldspar; sericite, hematite and silica alteration are common; lithic breccias mainly consist of aphyric fragments in an aphyric ash-flow tuff matrix (Miller and Abdel-Rahman, 2003)

eS:KVI

Lower volcanic rocks: Aphyric to quartz-feldspar-porphyritic ash-flow tuff and breccia; breccia is restricted to the outcrop area north of Middle Arm and contains subangular to subrounded fragments of aphyric flows and quartz-feldspar porphyry to granite (comp. Miller and Abdel-Rahman, 2003)

eS:KV

Aphyric to porphyritic and lithophysae-bearing ash-flow tuffs, lapilli-tuffs, breccias, and intrusive equivalents, some forming ring dykes; feldspar is microperthitic, and amphibole and rare clinopyroxene occur as accessory minerals (comp. Miller and Abdel-Rahman, 2003)

Sheffield Lake Complex

Intrusive rocks

eS:Slp

Orange to green quartz-potassium-feldspar porphyry with sodic amphibole oikocrysts and minor aegirine and altered fayalite (Coyle et al., 1986)

eS:SI

Red, medium-grained, porphyritic granite to quartz syenite, locally heavily altered; orange to green quartz-potassium-feldspar porphyry with sodic amphibole, minor aegirine and altered fayalite (comp. Coyle et al., 1986)

Volcanic rocks

eS:SVi

Aphyric to plagioclase microphyric andesite and aphyric to coarsely plagioclase-phyric basalt (comp. Coyle et al., 1986)

eS:SVf3

Orange to red, welded vitric tuff, characterized by large sodic amphibole oikocrysts with rare resorbed potassium-feldspar phenocrysts; oikocrysts interpreted to be produced by extreme hydrothermal alteration and carbonitization/albitization of the silica-rich peralkaline protolith (comp. Coyle et al., 1986; comp. Coyle, 1992)

eS:SVf2

Aphanitic, maroon, massive to flow-banded, quartz- and feldsparphyric ash-flow tuffs (Coyle et al., 1986)

eS:SVf1

Red and brown crystal, vitric and lithic ash-flow sheets; includes laharic fault and gas breccias, rhyolite domes and dykes, and minor basalt occurrences (comp. Coyle et al., 1986)

La Scie intrusive suite

eS:Lq

Quartz vein (Degrace et al., 1976)

La Scie granite

eS:LLp

Fine- to medium-grained, pink, biotite granite; locally feldspar porphyritic (Hibbard, 1983)

eS:LLx

Fine- to medium-grained, pink, biotite granite containing abundant mafic fragments; locally feldspar porphyritic (comp. Hibbard, 1983; comp. Degrace et al., 1976)

Seal island Bight syenite

eS:LS

Grey-weathering, fine- to medium-grained, riebeckite-bearing syenite (Hibbard, 1983)

Reddits Cove gabbro

eS:LR

Dark grey-green, fine- to medium-grained, equigranular pyroxene gabbro (Hibbard, 1983)

Cape Brule Porphyry

eS:Bm

Coarse-grained, quartz-feldspar porphyry with a matrix rich in biotite, altered to chlorite, and accessory mafic minerals; contains abundant mafic and ultramafic xenoliths (comp. Degrace et al., 1976)

eS:Bf

Fine-grained, quartz-feldspar porphyry with a felsic matrix; contains abundant mafic and ultramafic xenoliths (comp. Degrace et al., 1976)

Micmac Lake Group

eS:MU_s

Upper Sequence: Sandstone (Kidd, 1974)

eS:MU_f

Upper Sequence: Quartz-perthite porphyry and eutaxitic ignimbrite (Kidd, 1974)

eS:MU_m

Upper Sequence: Mafic lava and conglomerate (Kidd, 1974)

eS:MU

Upper Sequence: Mainly red, quartz-feldspar, porphyritic ash-flow tuffs, massive mafic flows, conglomerate, sandstone, subordinate trachyte flows and maroon rhyolite sills (Hibbard, 1983)

eS:ML_r

Lower Sequence: Rhyolite, rheoignimbrite, and minor ignimbrite (Kidd, 1974)

eS:ML_i

Lower Sequence: Eutaxitic ignimbrite, conglomerate, mafic lava, and minor rhyolite (Kidd, 1974)

eS:ML

Lower Sequence: Mainly maroon, flow-banded, massive, non-porphyritic rhyolite, non-porphyritic ash-flow tuffs, conglomerate and sandstone; minor mafic flows (Hibbard, 1983)

eS:M

Felsic volcanic and volcanoclastic rocks, sandstone, conglomerate, and mafic flows (Hibbard, 1983)

Cape St. John Group

Volcanic rocks

eS:CVfr

Mainly rhyolitic and trachytic ash-flow tuffs, lapilli tuffs, minor agglomerates, flows, and intrusive phases (Degrace et al., 1976)

eS:CVi

Mainly andesitic to dacitic pyroclastic rocks and flows (Hibbard, 1983)

eS:CVfqx

Massive, intrusive or crudely stratified breccia associated with quartz-feldspar crystal tuff; occurs as dykes and irregular masses and contains fragments of ophiolitic rocks and granodiorite (comp. Degrace et al., 1976)

eS:CVfqt

Mainly quartz-feldspar crystal tuff with abundant ultramafic fragments; locally the tuff is reworked and contains graded beds of arkose; includes intrusive porphyry (comp. Degrace et al., 1976)

eS:CVm

Mainly dark green to purplish mafic pyroclastic rock and massive vesicular flows; minor flysch (Hibbard, 1983)

eS:CV

Bimodal sequence of mainly rhyolitic and trachytic ash flow tuffs, flows and agglomerates, and dark green to purplish mafic flows and pyroclastic rocks; includes subordinate andesitic to dacitic flows and pyroclastic rocks (Williams et al., 1985)

Sedimentary rocks

eS:CS

Cross-bedded sandstone and conglomerate, including minor mafic lava and felsic tuff (Hibbard, 1983)

Charles Lake volcanic rocks

eS:CLf

Massive, very fine-grained, quartz - feldspar porphyritic, commonly flow-layered, pink to purple ignimbrite, very fine-grained, quartz-porphyritic, yellow rhyolite, massive fine grained pink felsic tuff; locally associated with volcanic clast-rich cobble conglomerate; interbedded with Charles Lake basalts; ignimbrite dated by U/Pb (zr) at 429 +/- 2 Ma (Dickson, 2000c)

eS:CLm

Massive to locally highly sheared, very fine- to medium grained, equigranular to rarely plagioclase- porphyritic, commonly epidotized, grey to black, very thick basalt flows; rare interbedded grey sandstone; rare massive pillow lava; interbedded with Charles Lake felsic volcanic rocks (Dickson, 2000c)

*Wing Pond Shear Zone
granite*

eS:ZGg

Generally foliated, equigranular, fine- to medium-grained, locally garnetiferous, muscovite granite (comp. O'Neill and Colman-Sadd, 1993)

eS:ZGm

Generally foliated, equigranular, fine- to medium-grained, muscovite-biotite granite (comp. O'Neill and Colman-Sadd, 1993)

eS:ZGb

Generally foliated, equigranular, fine- to medium-grained biotite granite (comp. O'Neill and Colman-Sadd, 1993)

eS:ZGh

Generally foliated, equigranular, fine- to medium-grained hornblende granite (comp. O'Neill and Colman-Sadd, 1993)

*Wing Pond Shear Zone
gabbro*

eS:ZM

Locally foliated, medium- to coarse-grained hornblende gabbro (O'Neill and Colman-Sadd, 1993)

Western Head Granite

eS:W

Buff, black and white, medium-grained, equigranular, locally foliated, biotite hornblende granodiorite, containing cognate xenoliths of diorite; unseparated septae of Roti Intrusive Suite (O'Brien, 1990b)

Gull Pond Ridge pluton

eS:G

Light brown to pale reddish brown, medium-grained hornblende +/- biotite monzonite, pyroxene-hornblende diorite, and leucogabbro (Hibbard, 1983)

Star Lake intrusive suite

eS:Rs

Strongly sheared to mylonitic granite occurring along Red Indian Line (comp. Whalen, 1993a)

eS:Rmg

Foliated, pink to red, medium- to coarse-grained, equigranular, arfvedsonite +/- aegirine, hypersolvus granite; may include some biotite granite (comp. Whalen, 1993a)

eS:Rmb

Foliated, pink to red, medium- to coarse-grained, biotite-amphibole, subsolvus granite (Whalen, 1993a)

eS:Rme

Foliated, pink, fine- to medium-grained, biotite, hypersolvus granite (Whalen, 1993a)

eS:Rpa

Foliated, white to pink, biotite-amphibole, subsolvus granite to granodiorite (Whalen, 1993a)

eS:Rpm

Foliated, white, medium-grained, biotite-muscovite, subsolvus granite (Whalen, 1993a)

eS:Rpg

Foliated, white, medium-grained, muscovite-garnet, subsolvus granite (Whalen, 1993a)

Topsails Igneous Suite

Sedimentary rocks

eS:TS	Arkose, conglomerate and siltstone (Whalen and Currie, 1988)
<i>Volcanic rocks</i>	
eS:TVm	Amygdaloidal and massive subaerial basalt, minor andesite (Whalen and Currie, 1988)
eS:TVfb	Orange to red, quartz-potassium-feldspar porphyritic rhyolite and minor amygdaloidal basalt flows; felsic volcanic rocks are in large part subalkaline (Whalen and Currie, 1988)
eS:TVffb	Beige to grey, felsic, laharic breccia (Whalen, 1993a)
eS:TVffr	Beige to pink, flow-banded rhyolite (Whalen, 1993a)
eS:TVff	Red, beige or pink, flow-banded rhyolite, rhyolite breccia, laharic breccia and silicic tuff (comp. Whalen and Currie, 1988)
<i>Intrusive rocks</i>	
eS:TIqa	Orange to green, quartz-K-feldspar porphyry, in large part peralkaline (Whalen and Currie, 1988)
eS:TIda	Fine- to medium-grained diabase and plagioclase-porphyritic diabase (Whalen and Currie, 1988)
eS:TI mh	Red, epidotized and chloritized, granophyric aplite (Whalen and Currie, 1988)
eS:TI mg	White to red, fine- to medium-grained, equigranular, arfvedsonite-aegirine, one-feldspar granite (comp. Whalen, 1993a)
O:YIsqq	Thin- to thick-bedded quartzite (Dickson, 2000a)

O:YIsq	Greenish-grey psammite and metaconglomerate, locally interbedded with semipelitic phyllite and schist (comp. Colman-Sadd, 1976)
O:YIssh	Thin- to medium-bedded, grey sandstone hornfels and minor thin-bedded sericite pelite (Dickson, 2000a)
O:YIsse	Grey sandstone, epiclastic(?) lapilli tuff and minor grey slate (Dickson, 2000a)
O:YIssr	Medium-bedded, red sandstone and minor red siltstone; locally displays cream coloured alteration (Dickson, 2000a)
O:YIsq	Greenish-grey phyllite and semipelitic schist, interbedded with psammite (comp. Colman-Sadd, 1976)
O:YIvmd	Strongly deformed, chlorite +/- sericite schist, and minor cleaved basalt flows, quartz-sericite schist and grey slate (Dickson, 1987)
O:YIvma	Concordant amphibolite zones with fine-grained, schistose margins and massive, medium- to very coarse-grained centres (Blackwood, 1985)
O:YIvm	Mafic tuff and flows; minor unseparated metasedimentary rocks; may include mafic dykes or sills (comp. Williams et al., 1985)
O:YIsbp	Thin-bedded, black with white patches, quartz-veined, graphitic pelite and siltstone (Dickson, 2000a)
O:YIsbs	Thin and well bedded, black, siliceous siltstone (Dickson, 2000a)
O:YIsba	Graphitic pelite, semipelite, thin to thick bedded arkosic arenite, and banded concordant amphibolite; minor felsic crystal tuff, mafic tuff and psammite (Blackwood, 1985)

O:Yl**sb**

Black graphitic schist, slate and siltstone, locally pyritic and rusty, and commonly folded, sheared and intruded by quartz veins; locally includes minor felsic tuff, amphibolite and arenite (comp. Colman-Sadd, 1976; comp. Dickson, 1987)

O:Yl**vff**

Rhyolitic flows, bedded lapilli and fine-grained tuff, and quartz-feldspar-crystal, ash-flow tuff; locally highly altered and cut by quartz veins, some containing pyrite or stibnite (Dickson, 1987; comp. Dickson, 2000a)

O:Yl**vfx**

Cleaved, rhyolitic, quartz-feldspar crystal tuff (Dickson, 2000a)

O:Yl**vfs**

Strongly deformed, quartz-sericite +/- chlorite schist (meta-felsic volcanic rocks), and minor chlorite schist, slate and psammite (comp. Dickson, 1987)

O:Yl**vft**

Pink to red, weakly cleaved, rhyolitic tuff and flows (Dickson, 1987)

O:Yl**vfa**

Mostly fine-grained felsic tuff with few crystal clasts; minor quartz-rich lapilli tuff, mafic tuff, and volcanic conglomerate (Blackwood, 1985)

O:Yl**sbc**

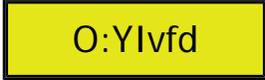
Black, graphitic pelite with local zones of sandstone, conglomerate and minor marble (Blackwood, 1985)

O:Yl**vfb**

Fine- to coarse-grained, felsic, lapilli tuff containing variable amounts of quartz and feldspar crystals, massive ash flow tuffs with minor interflow pelite, minor fine-grained, thinly laminated, felsic tuff with scattered quartz crystals, and minor volcanic conglomerate (Blackwood, 1985)

O:Yl**vfe**

Recrystallized, locally garnetiferous, felsic tuff; intruded by a profusion of concordant leucogranite veins (Blackwood, 1985)

 O:YIsbg	Graphitic pelite, richly garnetiferous (Blackwood, 1985)
 O:YIvfd	Fine-grained, laminated, felsic, lapilli tuff with scattered quartz and feldspar crystals; locally garnetiferous (Blackwood, 1985)
 O:YIvfc	Fine-grained felsic tuff and sericite phyllite (Blackwood, 1985)
 O:YIvf	Felsic, crystal to lithic tuff and flows; minor unseparated metasedimentary rocks (comp. Williams et al., 1985)
 O:YIsl	Grey to black laminated pelite, commonly garnetiferous, with interbedded, minor, fine-grained, felsic tuff (Blackwood, 1985)
 <i>Riches Island Formation</i>	
 O:YRm	Large rafts of pelitic to psammitic schist and migmatite contained within the North Bay Granite Suite; the schist locally contains sillimanite porphyroblasts and is tentatively assigned to the Riches Island Formation (comp. Blackwood, 1985; comp. Dickson, 1990b)
 O:YRv	Felsic and intermediate tuff and/or flows (comp. Colman-Sadd, 1976)
 O:YRsc	Rhyolite-pebble conglomerate (Dickson, 2000a)
 O:YRsp	Thin-bedded brown-weathering, slightly calcareous siltstone and fine-grained sandstone, medium- to thick-bedded, dark grey shale or slate (comp. Colman-Sadd, 1976)
 O:YRsqq	Thin- to medium-bedded, locally cross-bedded quartzite containing thin pelite interbeds (Dickson, 2000a)



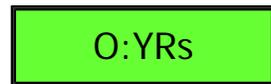
Grey psammite, psammitic schist and quartzite (comp. various sources)



Black graphitic siltstone, slate and schist (comp. Colman-Sadd, 1980)

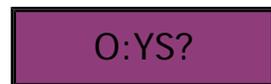


Parallel laminated, greenish-grey shale and thin interbeds of siltstone, mostly metamorphosed to greenish phyllite or schist and quartz-garnet beds (coticules); commonly porphyroblastic; also includes beds of thin to thick bedded, grey sandstone or psammite, and minor unseparated graphitic schist, quartzite and arkosic arenite (comp. Williams et al., 1985; comp. Blackwood, 1985)



Dominantly parallel laminated, greenish-grey shale and thin interbeds of siltstone, mostly metamorphosed to greenish phyllite and quartz-garnet beds (coticules); also includes thick-bedded grey sandstone, psammitic schist, black graphitic schist and slate, and minor unseparated mafic volcanic rocks (comp. Williams et al., 1985)

Salmon River Dam Formation?



Interbedded purple-grey sandstone and minor shale (Colman-Sadd and Russell, 1988)

Salmon River Dam Formation



Thin-bedded, strongly cleaved, commonly rust coloured, biotite pelite (Dickson, 1990b)



Purplish-grey, brown-weathering, thinly bedded and parallel- and cross-laminated siltstone and fine-grained sandstone, containing minor calc-silicate, quartzitic and calcareous pelitic beds (comp. Williams et al., 1985)

O:YSk

Purplish-grey, brown-weathering, thin to thickly bedded, massive or laminated siltstone and fine-grained sandstone, containing minor calc-silicate, quartzitic and calcareous pelitic beds; minor associated limestone (comp. Williams et al., 1985; comp. Dickson, 1990b)

O:YS

Predominantly purplish-grey, brown-weathering, medium to thickly bedded, massive or laminated siltstone and fine-grained sandstone, containing minor calc-silicate, quartzitic, calcareous pelitic and limestone beds; locally thinly bedded and parallel- and cross-laminated (Williams et al., 1985)

Davidsville Group

Outflow Formation

O:DOsc

Polymictic conglomerate (Blackwood and Green, 1983)

O:DOsst

Laminated siltstone and minor, fine-grained, thinly bedded sandstone (Blackwood and Green, 1983)

O:DOssm

Fine- to coarse-grained, thickly bedded greywacke interbedded with grey siltstone and slate (Blackwood and Green, 1983)

O:DOs

Fine- to coarse-grained dark greywacke, commonly with shale intraclasts, interbedded with grey to black siltstone and shale; minor conglomerate lenses (Blackwood et al., 1991)

Hunts Cove Formation

O:DHvf

Cleaved, grey to buff, blue quartz and feldspar crystal tuff (comp. Dickson, 1996a)

O:DHspr

Grey to black shale, slate and minor siltstone, and rare interbedded fine- to medium-grained greywacke and minor red slate; locally graphitic (Dickson et al., 1996a; Blackwood, 1982b)

O:DHspm	Grey to black shale, slate and minor siltstone, and rare interbedded fine- to medium-grained greywacke; locally graphitic (Dickson, 1996a)
<i>Weir's Pond Formation</i>	
IO:DWsb	Late Ordovician. Graptolitic, graphitic black shale (O'Neill, 1991a)
O:DWsc	Middle to Late Ordovician. Fossiliferous, bioclastic limestone and calcareous-quartz arenite (O'Neill, 1991a)
O:DWcf	Fine- to coarse-grained conglomerate containing predominantly quartz-porphyry clasts (Dickson, 1996a)
O:DWcm	Pebble conglomerate containing psammitic and pelitic clasts (O'Neill, 1991b)
O:DWcs	Interbedded, laminated siltstone, immature sandstone, locally cross-bedded, fossil-rich sandstone and pebble conglomerate (O'Neill, 1991b)
O:DWcp	Fine- to coarse-grained polymictic (locally oligomictic) conglomerate and minor sandstone; conglomerate contains clasts of ophiolitic and sedimentary rocks and is matrix-supported (comp. Blackwood, 1982b; comp. O'Neill, 1991b)
O:DWss	Early to Middle Ordovician. Grey, fossiliferous sandstone (O'Neill, 1991a)
O:DWs	Fine- to coarse-grained, grey sandstone with pebble lenses, and calcareous siltstone; minor red sandstone, limestone (marble), quartzite, and grey to black slate (Blackwood, 1982b)
O:DW	Fine- to coarse-grained, grey, fossiliferous arenite, polymict and oligomict conglomerate, fossiliferous limestone, and graphitic black shale (comp. O'Neill and Blackwood, 1989)

Southwest Brook complex

O:SWpg	Massive to faintly foliated biotite granite, leucogranite and granodiorite; commonly porphyritic; highly deformed in Cape Ray fault zone (comp. Currie and van Berkel, 1992; comp. van Berkel and Currie, 1988)
O:SWpt	Massive to faintly foliated tonalite and quartz diorite (comp. van Berkel and Currie, 1988)
O:SWdf	Fine- to medium-grained metadiabase (van Berkel, 1987a)
O:SWdm	Weakly foliated, leucocratic, medium-grained diabase containing minor orthopyroxene and hornblende, cut by more mafic dykes richer in hornblende (comp. van Berkel, 1987a)
O:SWmd	Massive diorite, locally containing numerous mafic inclusions (comp. van Berkel, 1987a)
O:SWmg	Medium- to coarse-grained gabbro with diabase dykes (comp. van Berkel and Currie, 1988)
O:SWm	Medium- to coarse-grained hornblende gabbro and diorite (comp. Knight, 1983)
O:SWfl	Fine-grained biotite leucogranite (van Berkel, 1987a)
O:SWfgc	Coarse-grained, equigranular to potassium-feldspar porphyritic, hornblende-biotite granite and granodiorite (Kean, 1983)
O:SWfgk	Medium-grained, locally potassium-feldspar megacrystic, biotite granite (Kean, 1983)

O:SWfgm	Medium-grained, quartz-rich, biotite-hornblende granodiorite (Kean, 1983)
O:SWfg	Foliated, medium- to coarse-grained, locally potassium-feldspar megacrystic, biotite granite and quartz-rich, biotite-hornblende granodiorite (comp. Kean, 1983; comp. Currie and van Berkel, 1992)
O:SWfn	Foliated equigranular tonalite, trondhjemite, granodiorite (Chorlton, 1980a)
O:SWftd	Foliated tonalitic rocks with abundant mafic schlieren and enclaves; medium- to coarse-grained, equigranular tonalite (comp. Currie and van Berkel, 1992; comp. Kean, 1983)
O:SWftx	Garnetiferous biotite tonalite with many assorted metasedimentary and amphibolitic inclusions (derived from the Fleur de Lys Supergroup and Long Range Mafic-Ultramafic Complex) which may contain sillimanite or muscovite; locally gneissic (comp. Chorlton and Knight, 1983)
O:SWftg	Garnetiferous biotite granodiorite to tonalite which may contain sillimanite and/or muscovite; commonly gneissic lit-par-lit injections and sheets (Chorlton and Knight, 1983)
O:SWftm	Biotite tonalite to trondhjemite which may contain secondary muscovite (Chorlton and Knight, 1983)
O:SWfts	Mainly medium-grained, garnet-bearing gneissic granodiorite (Hall and van Staal, 1999)
O:SWftc	Early to Middle Ordovician. Medium- to coarse-grained, weakly to strongly foliated tonalite to granodiorite; abundant mafic and sparse ultramafic xenoliths (van Staal et al., 1996b)

O:SWft

Foliated tonalite and other granitoid rocks with abundant rafts, inclusions, or country rock screens (Chorlton and Knight, 1983)

O:SW

Foliated and massive tonalite, biotite granite, granodiorite, quartz diorite and leucogranite; commonly porphyritic; medium- to coarse-grained hornblende gabbro and diorite; weakly foliated fine- to medium-grained diabase (comp. Currie and van Berkel, 1992; comp. Kean, 1983)

O:t

Medium-grained, hornblende-rich (+/- biotite), equigranular tonalite (O'Brien, 1982)

Hamilton Sound group

Woody Island formation

O:HW

Thinly layered, coticule-bearing siltstone, shale and minor sandstone; olistostrome beds; metamorphosed correlatives (Currie, 1995b; Johnston et al., 1994)

eO:RnMc

Early Ordovician. Large tabular fragments of mafic volcanic rocks of the Cape Onion Formation (comp. Bostock et al., 1983b)

eO:RnMu

Early Ordovician. Large tabular fragments of ultramafic rocks of the White Hills Peridotite (comp. Bostock et al., 1983b)

N-O:RnMg

Large tabular fragments of foliated gabbro, biotite schist and coarse-grained pyroxenite and hornblendite of the Green Ridge Amphibolite (comp. Bostock et al., 1983b)

mO:Rn

Middle Ordovician. Melange beneath transported slices of allochthon; consists of black and green shale matrix with sandstone, volcanic, intrusive and ultramafic blocks (comp. Bostock et al., 1983b)

Caribou Lakes gneiss complex

N-O:Cg

White, medium-grained, gneissic, biotite-amphibole granodiorite (Whalen, 1993a)

N-O:Cno

Blueish grey, fine- to medium-grained, biotite-muscovite, granodioritic to quartz monzonitic orthogneiss (Whalen, 1993a)

N-O:Cnp

Grey, fine-grained, biotite-muscovite, migmatitic paragneiss (Whalen, 1993a)

Little Passage Gneiss

N-O:Lt

Tonalitic migmatite, containing sillimanite-bearing, biotite-rich schlieren and numerous inclusions of massive and banded amphibolite; the migmatite is intruded by unseparated granite veins. Migmatization is dated at 423 ± 5/-3 Ma using U/Pb in zircon (comp. Colman-Sadd and O'Driscoll, 1979; Dunning et al., 1990)

N-O:La

Massive and banded amphibolite and amphibolitic gneiss, where separated (comp. Colman-Sadd et al., 1979)

N-O:Lsqh

Medium- to thick-bedded, grey psammite and minor interbedded pelite; contact metamorphosed to cordierite schist along the contact with the Koskaecodde Granite (comp. Dickson, 2000a)

N-O:Lsq

Quartz-rich, biotite psammitic and semipelitic schist (Dickson, 1987)

N-O:Lsp

Dominantly pelitic biotite schist and minor psammitic biotite schist, containing locally extensive, rusty, micaceous alteration zones (Dickson, 1987)

N-O:Lsgl

Laminated pelite, semipelite, psammite and amphibolite with minor, fine-grained, felsic tuff bands (Blackwood, 1985)

N-O:Lsgc

Coarse-grained semipelitic and psammitic paragneiss and schist; the rocks contain amphibolite facies metamorphic assemblages and are intruded by unseparated granite veins (Colman-Sadd and O'Driscoll, 1979)

N-O:Lsg

Medium- to coarse-grained semipelitic and psammitic paragneiss and schist, and finer grained psammitic gneiss; massive and banded amphibolite; the rocks contain amphibolite facies metamorphic assemblages, are intruded by unseparated granite veins, and are locally mylonitic (comp. Colman-Sadd and O'Driscoll, 1979)

Neoproterozoic to Late Cambrian

La Poile Basement Rocks (low grade)

Ernie Pond gabbro

IC:AE

Late Cambrian. Dark green, medium-grained, variably foliated, hornblende gabbro and fine-grained diorite; minor coarse-grained pyroxenite; unseparated diabase dykes (O'Brien, 1990b)

Wild Cove granite

C:AW

Middle to Late Cambrian. Medium- to fine-grained, equigranular, variably foliated, blue-quartz-bearing tonalite; fine-grained granite porphyry (O'Brien, 1990b)

Roti Intrusive Suite

N:ARb

Neoproterozoic to Ediacaran. Coarse-grained, equigranular, blue quartz-bearing granodiorite deformed within the Bay d'Est fault zone (comp. O'Brien, 1982)

N:AR

Neoproterozoic to Ediacaran. Coarse-grained, equigranular, blue quartz-bearing granodiorite (O'Brien and O'Brien, 1989)

Stratified units

Third Pond Tuff

N:AST

Neoproterozoic. Dark green, lithic tuff and minor mafic agglomerate; rare beds of laminated argillite, rare felsic volcanic fragments (O'Brien, 1990b)

Whittle Hill sandstone

N:ASW

Neoproterozoic. Grey and green-grey, thick- to thin-bedded, locally cross stratified, quartz-rich sandstone; green and grey, laminated argillite and thin-bedded siltstone; quartz pebble conglomerate, polymictic cobble conglomerate containing foliated granitoid clasts (O'Brien, 1990b)

NC:u

Foliated, medium grained biotite granite and granodiorite; locally gradational into quartz-feldspar porphyry (Blackwood et al., 1984)

Deer End formation

NC:Dd

Green and grey, locally buff sandstone and siltstone with calcareous nodules; light and dark grey shale. (O'Brien et al., 1987)

NC:Dq

White and light grey, massive, planar stratified and cross-stratified quartzite and quartz sandstone; minor red sandstone locally. (O'Brien et al., 1987)

NC:Di

Green and grey sandstone and laminated sandstone, micaceous grey siltstone, quartz-rich sandstone: minor red sandstone and variegated siltstone (Deer Island). (O'Brien et al., 1987)

Cross Hills Plutonic Suite

NC:Xg

Diabase and gabbro as multiple intrusions; contains up to 30% veins and stockwork of fine to medium grained, biotite granite (O'Brien et al., 1984b)

NC:Xh

Medium grained, hornblende-biotite granodiorite (O'Brien et al., 1984b)

NC:Xb

Fine to medium grained, biotite granite and alaskite. (O'Brien et al., 1984b)

NC:Xa

Orange to maroon aplite (O'Brien et al., 1984b)

NC:Xp

Fine to medium grained, miarolitic, red-brown peralkaline granite and very fine grained, red maroon aplite. (O'Brien et al., 1984b)

NC:Xd

Diorite (comp. O'Brien et al., 1984b)

NC:X

Fine to medium grained biotite+/- hornblende granitoid; diabase and gabbro intrusions; aplite; alaskite (comp. O'Brien et al., 1984b; comp. Tuach, 1991)

Neoproterozoic to Middle Cambrian

Labrador Group

NC:Ls

Mainly grey slate and phyllite (comp. Knight, 1996)

Penguin Cove Formation

mC:LPI

Middle Cambrian. Fossiliferous, stylonodular and argillaceous, ribbon limestone and dolostone (Knight, 1996)

mC:LP

Middle Cambrian. Interbedded grey and green grey shale, phyllite and slate commonly cut by sandstone dykes and displaying sandstone ball and pillow structures with thin- and thick-bedded, commonly convoluted, brown- and rusty-weathering, grey and white, quartz arenite, sandstone and dolomitic sandstone and siltstone; fossiliferous, stylonodular, argillaceous and dolomitic ribbon limestone and dolostone; fossiliferous, intraclastic, oncolitic, oolitic and stromatolitic limestone and dolostone (comp. Knight, 1994; comp. Knight, 1996)

Hawke Bay Formation

C:LHm

Early to Middle Cambrian. Rusty weathering, green-grey to grey phyllites with thin, rusty weathering, white, quartz arenites and a few beds of ribbon limestone in parautochthon adjacent to Hare Bay Allochthon (comp. Knight et al., 1986b)

C:LHW

Early to Middle Cambrian. White Bay: Quartz sandstone, sandy dolomite, oolitic limestone, and calcareous slate (Smyth and Schillereff, 1981a)

mC:LHB

Middle Cambrian. Bridge Cove Member: Oolitic, oncolitic, stromatolitic and locally parted dolomitic limestones, dolostones, purple-brown weathering grey mudstones, thin- and thick-bedded quartz arenites, phosphatic sandstones and dolostones, and karst breccia (comp. Knight et al., 1986b)

C:LHeu

Early to Middle Cambrian. Upper member: Off-white, pink, green and red, fine-grained, quartz arenite; grey to green-grey, bioturbated, phosphatic, glauconitic and micaceous sandstone and siltstone; minor grey shale (comp. Knight, 2000)

C:LHel

Early to Middle Cambrian. Lower member: Interbedded, thin bedded rusty-weathering cleaved grey shales and brown-weathering, very-fine grained quartzose sandstones and siltstones, thin beds, lenses and nodules of fine grained and fossiliferous grainy limestone; some oncolitic and intraclastic, pebbly limestone at Canada Bay (comp. Knight and Boyce, 1987; comp. Knight, 2000)

C:LHe

Early to Middle Cambrian. Upper member of off-white, pink, green and red, fine-grained, quartz arenite; grey to green-grey, bioturbated, phosphatic, glauconitic and micaceous sandstone and siltstone; minor grey shale; does not occur at Canada Bay. Lower member of interbedded, thin bedded rusty-weathering cleaved grey shales and brown-weathering, very-fine grained quartzose sandstones and siltstones, thin beds, lenses and nodules of fine grained and fossiliferous grainy limestone; some oncolitic and intraclastic, pebbly limestone at Canada Bay (comp. Knight, 2000; comp. Knight et al., 1986b)

C:LHIm

Early to Middle Cambrian. Green to brown, quartz phyllite and schistose quartzite with minor chlorite-magnetite schist (Williams et al., 1984)

C:LHI

Early to Middle Cambrian. Thick, massive to crossbedded, white and pink quartzite; thin- to medium-bedded, white, green and brown sandstone with minor conglomerate, shale and limestone (Williams et al., 1984)

eC:LHwph

Early Cambrian. Green-grey shale and thin sandstone beds (Knight, 1991b)

C:LHwp

Early to Middle Cambrian. White to pink and locally red quartz arenite, rusty weathering grey argillaceous sandstone, glauconitic and phosphatic sandstone, black calcareous mudstone-shale, and green-grey shale (comp. Knight, 1991b)

Forteau Formation

eC:LFWm

Early Cambrian. White Bay: Basal white marble member (probably Devils Cove Member) (comp. Smyth and Schillereff, 1981a)

eC:LFW

Early Cambrian. White Bay: Graphitic slate and phyllite, calcareous schist and marble; minor psammitic schist (Smyth and Schillereff, 1981a)

eC:LFe	Early Cambrian. Grey and black shale and slate hosting numerous limestone nodules, intercalated with thin bedded laminated and cross-laminated siltstone and ribbon limestone; capped by a thick, oncolitic, oolitic limestone; basal red to brown, nodular, argillaceous, fossiliferous limestone (Devil's Cove Member) (comp. Knight and Saltman, 1980)
eC:LFnln	Early Cambrian. Upper limestone member: Black shales interbedded with thin fine-grained limestones and oncolitic and fossiliferous, oolitic, black limestones; minor calcareous siltstone and sandstone (comp. Knight et al., 1986b)
eC:LFnls	Early Cambrian. Upper limestone member: Grey to red, archaeocyathid, reefal limestone and grainstone with some shale and sandstone, overlain by sandy limestone, oncolitic and fossiliferous, oolitic black limestone and some fossiliferous grey shale and sandstone (Knight, 1991b)
eC:LFnsd	Early Cambrian. Devils Cove Member: Basal pink to grey, nodular to massive, shaly limestone and dolomitic limestone (Knight et al., 1986b)
eC:LFns	Early Cambrian. Lower shale member: Basal pink to grey, nodular to massive shaly limestone and dolomitic limestone (Devils Cove Member), overlain by grey to black, fossiliferous shale with minor thin limestone, and capped by interbedded grey shale and bioturbated, fossiliferous, argillaceous limestone and fine sandstone (Knight, 1991b)
eC:LFn	Early Cambrian. Oolitic, bioclastic and stylonodular limestone, archeocyathid reefal limestone, grey shale, and quartz-rich and calcareous sandstone (comp. Knight, 1985)
eC:LFib	Early Cambrian. Black calcareous shale and buff-weathering, grey-green, calcareous sandstone and quartzite (Williams et al., 1984)

eC:LFlg

Early Cambrian. Medium- to thin-bedded, alternating grey and green shale and grey to buff-weathering, limy siltstone and limestone; limestone with archeocyathids at base where unit overlies Bradore Formation; locally includes thin unit of green quartz sandstone and arkosic sandstone at base (representing Bradore Formation); grey calcareous phyllite and schist adjacent to Long Range Inlier (comp. Williams et al., 1984; comp. Williams, 1985b)

eC:LFs

Early Cambrian. Grey shale, laminated and cross-laminated siltstone, and fossiliferous, limestone nodules; basal red to brown, nodular, argillaceous, fossiliferous limestone (Devil's Cove Member) (Knight, 2000)

Bradore Formation

eC:LBw

Early Cambrian. Arkose, sandstone, pebble conglomerate (Smyth and Schillereff, 1981a)

eC:LBnu

Early Cambrian. Red arkosic sandstone and white quartzose sandstone with Skolithus (Knight, 1991b)

eC:LBnm

Early Cambrian. Grey to pinkish grey, flaggy, micaceous, very fine-grained sandstone, siltstone and some grey shale (Knight, 1991b)

eC:LBnl

Early Cambrian. Basal, pebbly and granulose, friable, brown arkosic sandstone (Knight, 1991b)

eC:LBn

Early Cambrian. Red, arkosic sandstones and pebbly sandstones, and grey and pinkish grey, micaceous sandstones and siltstones; quartz arenite rich in Skolithus burrows locally (comp. Knight, 1985; comp. Knight, 1991a)

eC:LBI

Early Cambrian. Medium to coarse, grey-green, arkosic sandstone, quartz-pebble conglomerate, and minor shale (Williams et al., 1984)

eC:LBs

Early Cambrian. Crossbedded, red, small-pebble conglomerate and pebbly sandstone, quartz arenite, and minor siltstone; some bioturbation (Knight, 2000)

Lighthouse Cove Formation

N:LLc

Neoproterozoic. Black to dark green and purple to reddish brown, columnar and massive basalts with weathered tops; green and purple agglomerate, breccia and tuff; basal quartz-pebble lag (comp. Bostock et al., 1983a; comp. Knight et al., 1986b)

Bateau Formation

N:LB

Neoproterozoic. White quartzite, minor grey to purple shale, and plutonic-boulder conglomerate (Bostock et al., 1983b)

NC:L

Red, pink, purple and grey arkosic conglomerate, arkosic, micaceous and hematitic sandstone and siltstone; white, green, red and pink quartz arenites and calcareous sandstones; olive-grey, grey, black and red shales (metamorphosed to phyllites and slates in deformed areas) locally with limestone concretions; black, grey, red and pink, intraclastic fossiliferous, oolitic, oncolitic and stylonodular, argillaceous and arenaceous, fine to grainy limestones and rarely dolostone; dark grey, mafic volcanics occur locally (comp. Knight and Cawood, 1991; comp. Bostock et al., 1983a)

Neoproterozoic to Early Cambrian

Cinq Cerf Gneiss

NC:Cm

Banded amphibolitic gneiss, lit-par-lit migmatite, hornblendite and platy schist; subordinate hornblende porphyry, metagabbro, granite porphyry and fine-grained equigranular granitoid (O'Brien, 1990b)

NC:Ca

Amphibolitic gneiss, schist and agmatite screens; fine-grained, nebulitic granite sheets (O'Brien, 1990b)

Grey River Enclave



Ediacaran to Early Cambrian. Prekinematic quartz veins (Dickson et al., 1996b)



Ediacaran to Early Cambrian. Pyroxenite (Dickson et al., 1996a)



Ediacaran to Early Cambrian. Hornblendite and gabbro (Dickson et al., 1996a)



Ediacaran to Early Cambrian. Fine- to coarse-grained amphibolite, including minor gabbro and hornblendite (Dickson et al., 1996a)



Ediacaran to Early Cambrian. Strongly schistose to mylonitic, felsic volcanic rocks (Dickson et al., 1996b)



Strongly sheared pillow basalt and massive flows of uncertain affinity (Dickson, 2001)

Eastern felsic tuffs

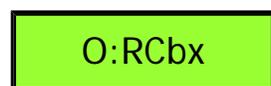


Thick- to thin-bedded felsic tuff, locally containing quartz and feldspar phenocrysts and lapilli, and thick-bedded feldspathic sandstone; interbedded rhyolite flows; altered to quartz-sericite schist containing sulphide mineralization in the Powderhorn Lake area (comp. Dickson, 2001; comp. Pudifin, 1993)

Calc-alkaline volcanic rocks



Felsite and felsite breccia; minor chert, greywacke and tuff (Bostock, 1988)



Pillow breccia, mafic breccia; minor basalt (Bostock, 1988)

O:RCbp

Basalt and pillow lava; some fine-grained greenschist and gabbro; mafic breccia and tuff; minor sedimentary rocks and felsite (Bostock, 1988)

O:RCb

Basalt, pillow lava and pillow breccia; some fine-grained greenschist and gabbro; mafic breccia and tuff; minor sedimentary rocks and felsite (comp. Bostock, 1988)

O:RCs

Sedimentary rocks including greywacke, chert and siltstone (in part or mostly of tuffaceous origin) (Bostock, 1988)

Tholeiitic volcanic rocks

O:RTfa

Submarine felsic ash flows with interbedded breccia and greywacke (Bostock, 1988)

O:RTff

Felsite and felsitic debris; some greywacke, chert and siltstone (Bostock, 1988)

O:RTbx

Pillow breccia and mafic breccia; minor basalt (Bostock, 1988)

O:RTbp

Basalt, pillow lava and greenschist; some mafic breccia, minor sedimentary rocks and felsite (Bostock, 1988)

O:RTb

Basalt, pillow lava, pillow breccia and greenschist; mafic breccia, sedimentary rocks and felsite (comp. Bostock, 1988)

Gull Pond basalt

O:RM

Calc-alkaline and tholeiitic, massive and pillowed basalt and mafic tuff; minor rhyolite and felsic tuff (comp. Pudifin, 1993; comp. Dickson, 2001)

Gullbridge bimodal unit

O:RB

Interbedded basalt, mafic tuff, rhyolite, felsic tuff, chert beds and minor sandstone; includes pyritic alteration zones and the sulphide stockwork at Gullbridge mine (comp. Pudifin, 1993; comp. Dickson, 2001)

Gull Hill felsic volcanic rocks

O:RF

Predominantly massive rhyolite interbedded with tuff and sedimentary rocks (comp. Pudifin, 1993)

Crescent Lake Formation

O:RSm

Interbedded bright red and dark red chert; maroon thin-bedded siltstone and siliceous laminated argillite; light green, medium-bedded, siliceous sandstone; grey-green, medium- to thick-bedded wacke having distinctive jasper, granite and basalt pebbles (O'Brien, 2001b)

O:RSw

Green sandstone turbidites containing abundant jasper clasts, poorly bedded wacke containing red chert and basalt clasts, and polymictic conglomerate containing conspicuous volcanic and plutonic boulders (O'Brien, 2001b)

O:RSh

Red and grey chert rhythmites interbedded with thin-bedded siliceous argillite and graded grey sandstone (O'Brien, 2001b)

O:RS

Interbedded red and grey chert; maroon thin-bedded siltstone and siliceous laminated argillite; light green, medium-bedded, siliceous sandstone; grey-green, medium- to thick-bedded sandstone turbidites and conglomerate having distinctive jasper, granite and basalt pebbles (comp. O'Brien, 2001b)

Buchans Group

Feeder Granodiorite

O:BF

Pink, medium- to coarse-grained, biotite granodiorite (Thurlow and Swanson, 1981)



Quartz-feldspar porphyry (Evans et al., 1994b)

Sandy Lake Formation



Intermediate to basaltic lava, pillow lava and pillow breccia, weakly to strongly amygdaloidal, feldsparphyric and hematized, containing lesser pyroclastic rocks and discontinuous lenses of multicoloured bedded chert (comp. Thurlow and Swanson, 1981)



Pumiceous felsic pyroclastic rocks and interbedded tuffaceous sedimentary rocks (Thurlow and Swanson, 1981)



Rhyolite (Thurlow and Swanson, 1981)



Felsic flows and pyroclastic rocks; interbedded tuffaceous sedimentary rocks (comp. Thurlow and Swanson, 1981)



Fine- to medium-grained, grey to green sandstone and arkose; minor breccia and quartz-feldspar crystal tuff (Evans et al., 1994b)



Graded, green, quartzose sandstone (Kean, 1979b)



Lithic arkose, containing local, thin, widely separated interbeds of mudstone, siltstone, siliceous greywacke and conglomerate (comp. Thurlow and Swanson, 1981)

Buchans River Formation



Granitoid-bearing breccia-conglomerate (Thurlow and Swanson, 1981)



Mafic interbeds (Thurlow and Swanson, 1981)

O:BBvdx

Lithic-rich pyroclastic breccias and in situ massive and transported fragmental sulphides (Thurlow and Swanson, 1981)

O:BBvdt

Dacitic crystal-vitric tuff (Thurlow and Swanson, 1981)

O:BBvd

Dacitic crystal-vitric tuffs gradational with poly lithic breccia-conglomerate and in situ massive and transported fragmental sulphides (Thurlow and Swanson, 1981)

O:BBrs

Pyritic siltstone and wacke (Thurlow and Swanson, 1981)

O:BBrr

Coalescing rhyolite breccia domes (Thurlow and Swanson, 1981)

O:BBr

Coalescing rhyolite breccia domes at base, flanked and overlain by pyritic siltstone and wacke (comp. Thurlow and Swanson, 1981)

Ski Hill Formation

O:BKt

Complex assemblage of mafic to felsic pyroclastic rocks, breccias, minor flows; locally altered and mineralized (formerly Intermediate Footwall) (Thurlow and Swanson, 1981)

O:BKb

Basaltic pillow lava, porphyritic and amygdaloidal andesitic flow breccias and fine to coarse pyroclastic rocks. Includes minor poly lithic breccias near stratigraphic top, overlain in subsurface by altered intermediate to felsic flows, breccias and pumiceous pyroclastic rocks (Thurlow and Swanson, 1981)

Lundberg Hill Formation

O:BLss

Multicoloured tuffaceous siltstone, siltstone, mudstone and chert (Thurlow and Swanson, 1981)

O:BLst

Lenses of graded, pumiceous, subaqueous, pyroclastic flows, cherty mudstone and siltstone (Thurlow and Swanson, 1981)

O:BLvi

Dominantly intermediate fragmental volcanic rocks, locally altered and mineralized (Thurlow and Swanson, 1981)

O:BLvrt

Rhyolitic pyroclastic rocks (Thurlow and Swanson, 1981)

O:BLvr

Rhyolitic quartz-feldspar crystal tuffs, breccias, tuffs, pyroclastic flows, flow-banded to massive flows (Thurlow and Swanson, 1981)

O:BLvdx

Dacitic breccia and quartz-feldspar crystal tuff (Thurlow and Swanson, 1981)

O:BLvd

Dacitic pyroclastic rocks (comp. Thurlow and Swanson, 1981)

O:BLvbl

Basalt lava and pillow lava (comp. Thurlow and Swanson, 1981)

O:BLvb

Basaltic and andesitic flows and pillow lava, breccia, pyroclastic flows and tuff, minor unseparated felsic volcanic rocks (Thurlow and Swanson, 1981)

O:B

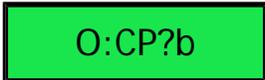
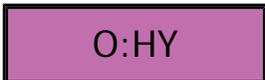
Mafic, intermediate and felsic submarine flows and pyroclastic rocks; volcanoclastic sedimentary rocks, minor chert and iron formation (comp. Williams et al., 1985)

Catchers Pond Group

O:CP

Mafic pillow lava and agglomerate, felsic agglomerate and tuff, felsic lava, and thin beds of chert and limestone (Williams et al., 1985)

Catchers Pond Group?

	Grey to black, basaltic pillow lava (Kean et al., 1994b)
	Intermediate to mafic, locally bedded, tuffaceous rocks and massive flows; bedded, red chert and argillite; magnetite and sulphide iron formation (Kean et al., 1994b)
<p>Wabana Group</p> <p style="margin-left: 40px;"><i>Grebes Nest Point Formation</i></p>	
	Dark shale, siltstone, and sandstone (King et al., 1988)
<p><i>Halfway Mountain granodiorite</i></p>	
	Slightly foliated, white to beige, medium- to coarse-grained, biotite-amphibole subsolvus granodiorite to granite (comp. Whalen, 1993a)
<p>Hungry Mountain Complex</p>	
	Medium- to coarse-grained, white to pink, amphibole-biotite, quartz-eye porphyritic granite to granodiorite (Whalen and Currie, 1988)
	Fine- to coarse-grained hornblende gabbro, amphibolite, diorite, quartz diorite and tonalite (comp. Whalen and Currie, 1988)
	Massive to foliated tonalite, granodiorite, diorite, gabbro, amphibolite and minor granite and gneiss; contains rare inclusions of ultramafic rocks (comp. Williams et al., 1985)
<p>Cutwell Group</p> <p style="margin-left: 40px;"><i>Long Tickle formation</i></p>	
	Andesitic to dacitic tuff, lapilli tuff and agglomerate; minor pillow andesite and fossiliferous limestone (Kean et al., 1994b)

Seal Cove complex



Red to green flow-banded, subvolcanic dacite intrusive and related pyroclastic rocks (Kean et al., 1994b)

Parsons Point formation



Fossiliferous limestone, limestone breccia, black cherty shale, and feldspathic greywacke (Kean et al., 1994b)

Burnt Head formation



Pillow Andesite member: Andesite flows, pillow lava and pillow breccia, agglomerate and tuff; generally porphyritic (Kean et al., 1994b)



Pyroclastic member: Mafic to intermediate agglomerate, lapilli tuff, tuff, minor felsic pyroclastic rocks, argillite, shale and chert (Kean et al., 1994b)



Andesitic flows, pillow lava and pyroclastic rocks (Kean et al., 1994b)

Quinton Cove formation



Coarse agglomerate; minor interbedded tuff and lapilli tuff (Kean et al., 1994b)

Pigeon Head formation



Chert, argillite, shale; fine-grained tuffs and reworked tuffs (Kean et al., 1994b)

Stag Island formation



Intrusive member: Diabase and gabbro (Kean et al., 1994b)



Breccia member: Coarse breccia, locally bedded (Kean et al., 1994b)

O:CSb

Basalt member: Pillow basalt and pillow breccia (Kean et al., 1994b)

Cutwell Group?

O:C?vb

Basaltic pillow lava (Kean et al., 1994b)

O:C?vs

Basaltic pillow lava interfingering with bedded red, green, black and yellow argillite and chert (Kean et al., 1994b)

O:C?vt

Pyroxene-crystal tuff, breccia and lapilli tuff with intercalated sedimentary rocks (Kean et al., 1994b)

O:C?s

Interbedded red, green, black and yellow chert, siliceous argillite, jasper and reworked tuffs; sulphide and magnetite iron formation (Kean et al., 1994b)

Chanceport Group

O:CHsg

Green and red siltstone, shale and turbiditic sandstone with pillowed basalt containing thin chert beds, felsic agglomerate, bedded tuff and chert towards the top of the unit (comp. Williams and Currie, 1995)

O:CHsc

Volcanic breccia, conglomerate and sandstone; red and black chert, and siliceous sandstone (comp. Williams and Currie, 1995)

O:CHv

Pillowed and massive basalt, containing horizons of volcanic breccia, conglomerate and sandstone, and lenses of chert and siliceous sandstone (comp. Williams and Currie, 1995)

Cottrells Cove Group

*Moores Cove
Formation*

O:LMsc

Polymictic conglomerate containing boulders of basalt (Dec et al., 1997)

O:LMss	Greenish-grey, turbiditic sandstone and mudstone; minor polymictic conglomerate (Dec et al., 1997)
O:LMsr	Greyish-red and greenish-grey radiolarite and minor volcanoclastic interbeds (Dec et al., 1997)
O:LMv	Pillow and massive lava with interbeds of greyish-red radiolarite and volcanoclastic sediments (comp. Dec et al., 1997)
O:LM	Reddish-brown feldspathic wacke interbedded with grey siliceous argillite; minor red argillite (O'Brien, 1991b)
<i>Fortune Harbour Formation</i>	
O:LFmmd	Basalt and diabase sill (Dec et al., 1997)
O:LFsf	Volcanoclastic conglomerate, sandstone and mudstone, interbedded with greyish-red radiolarite (Dec et al., 1997)
O:LFso	Olistostrome consisting of rafts of greyish-red radiolarite and massive basalt (comp. Dec et al., 1997)
O:LFmm	Massive basalt occurring as rafts and autochthonous lenses (comp. Dec et al., 1997)
O:LFmps	Pillow and massive lava with interbeds of greyish-red radiolarite and volcanoclastic deposits (comp. Dec et al., 1997)
O:LFmp	Dark green pillow lava; minor mafic agglomerate and pillow breccia (O'Brien, 1991b)
O:LFmx	Well stratified, dark green, mafic agglomerate and pillow breccia (O'Brien, 1990a)

Margaree orthogneiss



White to pinkish biotite granitic gneiss (comp. van Staal et al., 1996a)



Mainly white, biotite and/or hornblende-bearing granodioritic to tonalitic orthogneiss containing abundant sheets and enclaves of amphibolite, metagabbro, metadiorite, hornblendite and metapyroxenite; all Margaree orthogneisses characteristically lack garnet; includes minor Port aux Basques granite (comp. van Staal et al., 1996a)

Kelby Cove orthogneiss



White, locally muscovite-bearing granitic gneiss (van Staal et al., 1996b)



Pyroxenite (van Staal et al., 1996a)



Mainly whitish grey, less commonly pink, gneissic granitoid rock varying from hornblende- and biotite-bearing tonalite to biotite- and/or muscovite-bearing granite; contains abundant bands of amphibolite, metagabbro, metadiorite, hornblendite and pyroxenite; garnet and/or gedrite are locally abundant in both felsic and mafic orthogneisses; includes minor Port aux Basques granite (van Staal et al., 1996b)

Unseparated Kelby Cove and Margaree orthogneisses



Tonalite, granodiorite, and granite containing biotite, subordinate muscovite, and local hornblende; local pegmatite; lateral equivalents of rocks assigned to the Kelby Cove and Margaree orthogneisses in the Rose Blanche area (NTS 110/10); may also include the northern extension of the Port aux Basques granite (comp. Chorlton and Knight, 1983)

Exploits Group

*Hummock Island
limestone*



Massive limestone; marble; interbedded limestone and calcareous wacke (O'Brien, 1990a)

Strong Island chert



Middle Ordovician. Thin-bedded, radiolarian chert and grey, orbicular chert interbedded with thin-bedded, silicified feldspathic wacke; minor interbedded, green and red, silicified argillite and chert interbeds; rare pillow breccia (Dickson et al., 2000)

*Lawrence Head
Formation*



Basaltic pillow lava and subordinate pillow breccia; minor intervals of dark-green chert and grey epiclastic sandstone; diabase dykes and minor mafic tuff (Dickson et al., 2000)

New Bay Formation



Saltwater Pond Member: Conglomeratic-to-pebbly, graded wacke with distinctive clasts of tonalite, limestone and basalt (O'Brien, 1992a)



Saltwater Pond Member: Light-grey, nodular, siliceous argillite interbedded with thin, slump-folded sandstone, interstratified red and green chert, and cherty argillite rhythmites; grey and red olistostromes containing resedimented cobble conglomerate and detached slump folds of epiclastic sandstone beds; conglomeratic to pebbly, graded wacke containing distinctive clasts of tonalite, limestone and basalt (Dickson et al., 2000)



Brook Harbour Member: Dark-grey, laminated, pyritic, graptolite-bearing shale and subordinate light-grey, thin-bedded siltstone and fine-grained sandstone (Dickson et al., 2000)

O:ENC

Charles Brook Member: Light-grey, medium-bedded, graded sandstone and interbedded green-grey shale and siltstone; minor pebbly to sandy wacke containing common rip-up clasts of dark-grey shale and slump-folded argillite; minor grey, polymict conglomerate and graded wacke (Dickson et al., 2000)

O:ENbc

Badger Bay area: Polymictic, cobble-to-boulder, clast-supported conglomerate with well rounded siliciclastic, calcareous and magmatic clasts; massive, light grey, pebbly wacke; depositional contacts with both other units of the New Bay Formation in the Badger Bay area (comp. O'Brien, 2001b)

O:ENbb

Badger Bay area: Dark grey and black, laminated and siliceous, siltstone turbidites; black pyritic argillite or pyritic slate; minor light green, slump-folded sandstone with interbedded or chaotically mixed mudstone (O'Brien, 2001b)

O:ENbg

Badger Bay area: Thin interbeds of light green sandstone and dark grey siltstone; minor, light grey, medium-bedded, granular wacke; rare, dark-grey and black, sulphidic argillite; all rocks are siliceous and highly indurated (O'Brien, 2001b)

O:ENb

Badger Bay area: Polymictic, cobble-to-boulder, clast-supported conglomerate; massive, light grey, pebbly wacke; dark grey and black, siltstone turbidites; black pyritic argillite or pyritic slate; thin interbeds of light green sandstone and dark grey siltstone; minor, light grey, medium-bedded, granular wacke (O'Brien, 2001b)

*Saunders Cove
Formation*

eO:EU

Early Ordovician. Thin red chert interstratified with red and green, siliceous argillite; minor interval of light grey shale interbedded with thin graded sandstone; rare pebbly wacke (O'Brien, 1992a)

Tea Arm Formation

eO:ETV

Early Ordovician. Pleasantview member: Mafic flows and pillow breccias, including highly compacted horizons of sheared and altered pillows; minor chert and limestone intruded by vesicular dykelets (O'Brien et al., 1997a)

eO:ETP

Early Ordovician. Pushthrough member: Dominantly glassy rhyolitic pumice and andesitic lapilli tuff, locally intruded by diabase that was disrupted during pyroclastic flow; volcanic agglomerates carry both felsic and mafic bombs and contain altered basalt ejecta (comp. O'Brien et al., 1997a)

eO:ETL

Early Ordovician. Little Arm East member: Highly vesicular, poorly stratified, porphyritic basalt flows, laminated vitrophyric mafic extrusions, and rare hyaloclastites (O'Brien et al., 1997a)

Dunnage Melange

O:AC

Cheneyville conglomerate: Dacite-boulder conglomerate, containing interbeds of greywacke and argillite (Williams et al., 1985)

O:As

Greywacke, conglomerate and coticule-bearing shale; olistostrome beds (comp. Currie and Williams, 1995)

O:Am

Mafic volcanic and gabbro rafts contained within melange (Currie and Williams, 1995)

O:A

Blocks of mainly mafic volcanic rocks, gabbro, greywacke, limestone, micaceous sandstone and granite, in a chaotic matrix of black and green shale, argillite and pebbly mudstone (Williams et al., 1985)

St. George Group

O:Gc

Recrystallized limestone and deformed grey to white marble, derived by metamorphism of St. George Group (comp. Williams et al., 1983)

O:Gm

Undivided marbles in parautochthon adjacent to Hare Bay Allochthon (Knight et al., 1986b)

Aguathuna Formation

O:GAnn

Light grey to grey dolostones with chert common, interbedded with white, burrow-mottled limestone near base and light grey, laminated cryptalgal limestone at the top; variable thickness and locally absent (Knight et al., 1986a)

O:GAns

Light grey to grey dolostones with interbedded green-grey and grey shales; local bodies of matrix breccia; an upper member contains thin chert pebble and sand laminae, and locally basal chert pebble conglomerate above the St. George Unconformity (comp. Knight, 1985)

O:GAc

Light grey, microcrystalline dolostone and argillaceous dololaminite, interbedded with grey to off-white microbial laminated and stromatolitic limestone; local carbonate breccias of collapse origin; recrystallized to low-grade marbles in the easterly thrust slices (comp. Knight, 1994; comp. Knight, 1996)

O:GAs

Interbedded dolostone and bioturbated, grey and light grey dolomitic limestone, light grey stromatolitic limestone, green-grey shale, off-white peloidal limestone (at base), and chert (Knight, 2000)

Catoche Formation

eO:GCCnl

Early Ordovician. Costa Bay Member: White limestone consisting of peloidal grainstone, fenestral and thrombolitic limestone; locally brecciated and penetrated by dolostone-filled fractures and cavities; absent locally due to erosion (comp. Knight et al., 1986a)

eO:GCCnd

Early Ordovician. Costa Bay Member: Diagenetic and epigenetic dolostones comprising tan-grey weathering, grey to pale grey, bituminous, burrow-mottled sucrosic dolostone interbedded with massive to mottled, dark grey, finely crystalline dolostone; white sparry dolomite cements small and large pores, replaces the sucrosic dolostones and forms veins that cut the dolostone; vestiges of pale grey, crossbedded, peloidal grainstone occur in the sucrosic dolostones; the dolostones may be tight or host a range of porosity (comp. Knight, in preparation)

eO:GCCc

Early Ordovician. Costa Bay Member: Off-white, interbedded grainy and laminated limestone and light grey dololaminite, rare thrombolitic mounds, locally brecciated (Knight, 1994)

eO:GCCs

Early Ordovician. Costa Bay Member: Off-white peloidal limestone, minor dolostone (Knight, 2000)

eO:GCm

Early Ordovician. White to grey marbles and dolomitic lime marbles metamorphosed in parautochthon adjacent to Hare Bay Allochthon; may include unseparated Costa Bay Member (comp. Knight et al., 1986b)

eO:GCudv

Early Ordovician. Grey, burrow-mottled, finely crystalline, sucrosic dolostone; moldic and intercrystalline porosity; may include unseparated Costa Bay Member (Knight, in preparation)

eO:GCudt

Early Ordovician. Tan-grey-weathering, dark grey to grey, mottled, fine to medium sucrosic dolostone with white sparry dolomite-cemented vugs and veins; the dolostones replace both burrowed and thrombolitic carbonates; the dolostones may be tight or host a range of porosity; may include unseparated Costa Bay Member (comp. various sources)

eO:GCul

Early Ordovician. Well bedded, bioturbated and cryptalgal, fossiliferous, dolomitic limestone; may include unseparated Costa Bay Member (Knight et al., 1986a)

eO:GCu

Early Ordovician. Undivided Catoche Formation, which includes Costa Bay Member where present; bedded, bioturbated, dolomitic limestone with some microbial mound beds, locally replaced by sucrosic dolomite (comp. Knight et al., 1986b)

eO:GCnul

Early Ordovician. Upper burrowed limestone member, thickly bedded, burrow-mottled to massive, dark grey, dolomitic limestone intercalated with cross laminated grainstones and some thrombolitic limestone beds, black chert and silicified molluscs common in the lower part (comp. Knight et al., 1986a)

eO:GCnmd

Early Ordovician. Dolomitized middle mound member of tan-grey-weathering, dark grey to grey, mottled, fine to medium sucrosic dolostone with white sparry dolomite vugs and veins that replace dominantly thrombolitic limestone (comp. Knight and Edwards, 1986a; comp. Knight, in preparation)

eO:GCnml

Early Ordovician. Mound member of large thrombolitic sponge mounds with grainstones and minor burrowed limestone (comp. Knight et al., 1986a)

eO:GCnll

Early Ordovician. Lower member of burrowed, fossiliferous, dark grey dolomitic limestone with some thrombolitic mounds (comp. Knight et al., 1986a)

eO:GCw

Early Ordovician. Dark grey to grey, predominantly bioturbated and fossiliferous, dolomitic limestone interbedded with numerous sheets and lenses of intraclastic and fossiliferous grainstone and rudstone and at infrequent intervals with large microbial sponge mound beds; rare interbeds of lime-burrow-mottled dolostone and laminated limestone (excludes Costa Bay Member) (Knight, in preparation)

eO:GCst

Early Ordovician. Units of thrombolitic sponge boundstone mounds (comp. Knight, 2000)

eO:GCs

Early Ordovician. Bioturbated, stylonodular/lumpy, fossiliferous, grey, dolomitic limestone, intraclastic grainstone and rudstone, thick units of thrombolitic boundstone mounds, and chert (excludes Costa Bay Member, which is missing in most places) (Knight, 2000)

Boat Harbour Formation

eO:GBm

Early Ordovician. Interbedded marbles and commonly boudinaged dolostones in parautochthon adjacent to Hare Bay Allochthon (Knight et al., 1986b)

eO:GBn

Early Ordovician. Interbedded, dark to light grey, dolomitic limestone and buff dolostone, microbial limestone; dolomitization common throughout; widely preserved chert and matrix breccia bodies especially at base; generally includes unseparated Barbace Cove Member (Knight, 1991b)

eO:GBcb

Early Ordovician. Local basal unit of off-white to light grey limestone laminite (Knight, 1994)

eO:GBc

Early Ordovician. Interbedded, dark grey, grey, blue-grey and off-white, bioturbated, parted, stromatolitic, thrombolitic, grainy and laminated limestone; massive and laminated, light grey to grey dolostone; rare chert; locally brecciated at base; includes unseparated Barbace Cove Member (Knight, 1994)

eO:GBs

Early Ordovician. Intercalated bioturbated, thrombolitic, stromatolitic and laminated, dark grey, dolomitic limestone, and laminated and bioturbated dolostone; a basal member of dominantly massive dolostone and local matrix breccia; includes unseparated Barbace Cove Member (Knight, 2000)

Watts Bight Formation

eO:GWm

Early Ordovician. Black, thrombolitic and bioturbated limestone marble in parautochthon adjacent to Hare Bay Allochthon (Knight, in preparation)

eO:GWnl

Early Ordovician. Dark grey, black, light grey, grey and locally white, fabric and dolomite-mottled, cherty thrombolitic, stromatolitic, bioturbated, grainy, clean and dolomitic limestone; some dolostone and dololaminite interbeds; the limestone is replaced by dark grey to black, finely crystalline, bituminous dolostone at the base of the formation in the Canada Bay area (comp. Knight et al., 1986b)

eO:GWnd

Early Ordovician. Dark grey to black, thick bedded, fine- to medium-crystalline dolostone characterized by light grey to cream mottling, and large microbial mounds, chert, dolarenite, thin beds of buff weathering, microcrystalline dolostone, gastropods and cephalopods locally; rare beds of light grey fossiliferous, thrombolitic limestone at the top of the formation in St. John Bay (Knight, 1991b)

eO:GWn

Early Ordovician. Dark grey to black, thick bedded, fine- to medium-crystalline dolostone characterized by light grey to cream mottling, and large microbial mounds, chert, dolarenite, thin beds of buff weathering, microcrystalline dolostone, gastropods and cephalopods locally; light grey limestones locally at top of formation composed of large thrombolite mounds and grainstone in Hare Bay region; the dolostones feather out eastward as the unit approaches the Hare Bay allochthon into dark grey to black to light grey to grey, fabric and dolomite-mottled, cherty thrombolitic, stromatolitic, bioturbated, clean and dolomitic limestone (comp. Knight, 1991b; comp. Knight et al., 1986b)

eO:GWss

Early Ordovician. Shear zones developed mainly within dark grey dolomitic limestone, dolostone and grey limestone of the Watts Bight Formation but also involving adjacent units of the Port au Port Group and the Reluctant Head Formation (Knight, in preparation)

eO:GWs

Early Ordovician. Dark grey to almost black, cherty, thick bedded, bioturbated and thrombolitic, mottled dolomitic limestone in lower part, replaced by dark grey to tan grey, crystalline, bituminous, mottled dolostone at and above the base; upper part is dominated by clean grey limestone (intraclastic grainstone) with lesser thrombolitic and bioturbated limestone beds; thin to metre-thick dolostone and dololaminite interbeds throughout (comp. Knight, 1994; comp. Knight, 1996)

eO:GW

Early Ordovician. Black, dark grey to grey, thick-bedded, thrombolitic and stromatolitic, grainy, bioturbated and stylonodular, argillaceous and dolomitic limestone interbedded with lesser dololaminites, chert is common; thick bedded intraclastic grainstones with lesser thrombolitic limestones dominate the top of the formation locally; in the north and locally in the south, the thrombolitic and stromatolitic carbonates form thick and extensive mound complexes; the limestones are replaced extensively from Daniel's Harbour north, and west of the Hare Bay Allochthon, by black to tan-grey, sucrosic dolostones displaying light grey, burrow- and fabric-mottled textures (comp. Knight and James, 1988; comp. Knight and Cawood, 1991)

O:G

Off-white, light grey, grey, dark grey to black, bioturbated, stromatolitic, thrombolitic, thinly bedded and laminated, clean and dolomitic limestone as well as intraclastic, peloidal, skeletal and rarely oolitic grainstone; burrow-mottled, bioturbated, thin bedded and laminated and lesser stromatolitic, light grey to grey dolostone and dololaminite and lesser green-grey and grey shaly dolostone and shale; rare chert and dolostone pebble conglomerate and sand layers associated with disconformity surfaces; locally cut by dolostone matrix breccias below disconformities; limestones are replaced both locally and pervasively in many places by tan-grey weathering, dark grey to black, fine- to medium-crystalline, sucrosic dolostones (comp. Knight and James, 1988; comp. Knight, in preparation)

Early Ordovician

Snooks Arm Group

eO:Sm

Mafic sills, including plagioclase and/or clinopyroxene-phyric, aphyric, gabbroic and diabasic facies; commonly rich in Fe-Ti-oxides (partly altered to leucoxene) and sulphides; commonly amygdaloidal near contacts (Bedard et al., 1999)

Round Harbour Formation

eO:SR

Clinopyroxene + plagioclase-phyric pillow lavas and sheet flows; commonly amygdaloidal; thin red siliceous mudstone interbeds; locally intense brecciation and epidotization (Bedard et al., 1999)

Balsam Bud Cove Formation

eO:SBD

Debrite Member: Thick-bedded mass-flow conglomerate and volcanogenic sandstone debrites; large fragments of pillow basalt similar to Venams Bight lavas, leucoxene diabase, breccia and felsic tuff; some debrites capped by turbiditic sandstones, siltstones and mudstones; grades up to interbedded turbidites and pelagites, with rare felsic tuffs (Bedard et al., 1999)

eO:SBBt

Basal Member: Thick sequence of massive, to brecciated, to thin-bedded rhyolitic tuffs, interbedded with black, sulphidic, graptolitic shales (Bedard et al., 1999)

eO:SBBp

Basal Member: Basal disturbed pelagites and volcanoclastic turbidites, interbedded with mafic volcanic rocks (Bedard et al., 1999)

eO:SB

Basal member of pelagites and volcanoclastic turbidites, interbedded with mafic volcanic rocks, and a thick sequence of rhyolitic tuffs, interbedded with black, sulphidic, graptolitic shales; upper member of mass-flow conglomerate and volcanogenic sandstone debrites, turbiditic sandstones, siltstones and mudstones; grades up to interbedded turbidites and pelagites, with rare felsic tuffs (comp. Bedard et al., 1999)

Venams Bight Formation

eO:SV

Pillow lavas and sheet flows; clinopyroxene + plagioclase +/- magnetite-porphyritic and vesicular; thin red siliceous mudstone layers (Bedard et al., 1999)

Bobby Cove Formation

eO:SCTr

Turbidite Member: Minor thin rhyolitic tuffs (Bedard et al., 1999)

eO:SCT

Turbidite Member: Volcanogenic turbidites interbedded with purplish pelagic siliceous mudstones; subordinate felsic tuffs (Bedard et al., 1999)

eO:SCBd

Basal Member: Dacitic tuffs (Bedard et al., 1999)

eO:SCBf

Basal Member: Coarse fragmental facies of pyroclastic andesite tuffs (comp. Bedard et al., 1999)

eO:SCBr

Basal Member: Minor thin rhyolitic tuffs (Bedard et al., 1999)

eO:SCBm

Basal Member: Mafic lavas (Bedard et al., 1999)

eO:SCB

Basal Member: Dominantly subaqueous pyroclastic andesite tuffs deposited on a low-relief erosional unconformity; characteristic thick-bedded, crudely stratified, graded, block and lapilli tuffs; dominantly pumaceous andesitic clinopyroxene + plagioclase +/- hornblende clasts; locally abundant dacite, sandstone, siltstone, hornblendite or metabasalt clasts; interbedded with sequences of graded, crystal tuffs; subordinate clinopyroxene-phyric andesitic to basaltic lava flows, dacitic crystal tuffs, and rhyolitic tuffs (Bedard et al., 1999)

eO:SC

Basal member of andesite tuffs deposited on a low-relief erosional unconformity; characteristic thick-bedded, crudely stratified, graded, block and lapilli tuffs interbedded with sequences of graded, crystal tuffs; subordinate andesitic to basaltic lava flows, dacitic crystal tuffs, and rhyolitic tuffs; overlain by upper member of volcanogenic turbidites interbedded with purplish pelagic siliceous mudstones and including subordinate felsic tuffs (comp. Bedard et al., 1999)

Scrape Point Formation

eO:SSVm

Volcanic Member: Magnetic facies (Bedard et al., 1999)

eO:SSV

Volcanic Member: Amygdaloidal, sparsely to abundantly plagioclase + clinopyroxene-phyric tholeiitic basalt to ferrobasalt pillow lavas and massive flows (Bedard et al., 1999)

eO:SSSm

Sedimentary Member: Magnetic facies (Bedard et al., 1999)

eO:SSS

Sedimentary Member: Laterally discontinuous basal boulder conglomerate with basalt-chert fragments cemented by magnetite; thin-bedded turbiditic sandstones, red siltstones, and magnetic-hematite ironstones (locally with abundant coarse cubic pyrite and stilpnomelane), grading up into green turbiditic sandstones/siltstones and crystal to lapilli tuffs; contact-metamorphic black slates and purple-silver phyllites (Bedard et al., 1999)

eO:SS

Basal sedimentary member of breccia or conglomerate overlain turbiditic sandstones and siltstones; upper member of amygdaloidal, plagioclase-porphyritic, tholeiitic basalt pillow lavas and massive flows (comp. Bedard et al., 1999)

Mount Misery Formation

eO:SMm

Magnetic facies (Bedard et al., 1999)

eO:SMc

Conglomerate and breccia facies (Bedard et al., 1999)

eO:SM

Spherulitic, amygdaloidal, sparsely olivine-phyric tholeiitic pillow lavas and pillow breccias, grading up to plagioclase + pyroxene-phyric lavas; uppermost lavas commonly hematized and/or strongly magnetic; locally prominent fault and talus breccia zones (Bedard et al., 1999)

eO:S

Arc tholeiitic pillow lava, pillow and talus breccia and associated mafic dykes; evolved tholeiitic pillow basalt and massive flows, alternating with calc-alkaline andesitic and dacitic pyroclastic rocks and minor rhyolitic tuff; interstratified sedimentary rocks including boulder conglomerate, turbiditic sandstone, siltstone, mudstone, ironstone and tuff (comp. Bedard et al., 2000)

Loon Pond - Woodfords Arm plutons

Loon Pond pluton

eO:FL

Pink to pinkish-grey, very fine- to medium-grained quartz monzonite, granodiorite and granite (comp. Bostock, 1988)

Woodfords Arm pluton

eO:FWg

Grey to pink, fine- to medium-grained granodiorite (Kean et al., 1994b)

eO:FWh

Quartz diorite and hybrid rocks, which may include felsite, basalt and granodiorite (comp. Bostock, 1988)

eO:Fg

Quartz monzonite, granodiorite and granite (Bostock, 1988)

eO:Fd

Quartz diorite, diorite (Bostock, 1988)

eO:Fh

Hybrid rocks, including felsite, basalt and granodiorite (Bostock, 1988)

Baggs Hill Granite

eO:Bp

Granophyre, quartz porphyry, quartz-feldspar porphyry (Chorlton, 1980a)

eO:Bg

Foliated, equigranular granite and granodiorite (Chorlton, 1980a)

eO:B

Foliated, equigranular granite and granodiorite; granophyre, quartz porphyry, quartz-feldspar porphyry (Chorlton, 1980a)

Partridgeberry Hills Granite

eO:PS

High-Silica Phase: Medium-grained, muscovite-biotite granite (Colman-Sadd, 1985a)

eO:PMd

Main Phase: Strongly foliated, fine- to medium-grained, chloritized and sericitized biotite granite (Colman-Sadd, 1985a)

eO:PMu

Main Phase: Massive to weakly foliated, medium- to coarse-grained, chloritized and sericitized, perthitic microcline, biotite granite (Colman-Sadd, 1985a)

Hall Hill - Mansfield Cove Complex

Mansfield Cove Complex

eO:HMp

Plagiogranite, sodic quartz diorite, minor diorite, amphibolite (Bostock, 1988)

eO:HMd

Diorite (Bostock, 1988)

eO:HMq

Fine-grained quartz diorite (Bostock, 1988)

eO:HM

Dominantly plagiogranite, lesser granodiorite, alaskite, mafic dykes (Swinden and Sacks, 1996)

Hall Hill Complex

South Pond gabbro

eO:HHS

Gabbro, hornblende gabbro, diorite (Bostock, 1988)

eO:HH

Dominantly mafic and intermediate intrusive rocks; includes minor pegmatitic gabbro, pillow lava, pyroxenite and plagiogranite (Swinden and Sacks, 1996)

Rowsell Hill basalt

eO:HR

Amphibolite, basalt, pillow lava (Bostock, 1988)

Star Lake ophiolite complex

eO:Lyt

Sheeted, fine- to medium-grained, pyroxene-hornblende diabase; local pods or dykes of fine-grained hornblende plagiogranite (tonalite) (Whalen, 1993a)

<div style="border: 1px solid black; background-color: #808080; color: white; padding: 5px; display: inline-block;">eO:Lyd</div>	<p>Sheeted, fine- to medium-grained, pyroxene-hornblende diabase; local pods of pegmatitic hornblende diorite (Whalen, 1993a)</p>
<div style="border: 1px solid black; background-color: #00FF00; color: black; padding: 5px; display: inline-block;">eO:Lg</div>	<p>Sheeted, medium- to coarse-grained, pyroxene-hornblende gabbro, diorite and diabase (Whalen, 1993a)</p>
<div style="border: 1px solid black; background-color: #00FF00; color: black; padding: 5px; display: inline-block;">eO:Lu</div>	<p>Coarse- to very coarse-grained, layered pyroxenite (Whalen, 1993a)</p>
<div style="border: 1px solid black; background-color: #00FF00; color: black; padding: 5px; display: inline-block;">eO:L</div>	<p>Local pods and dykes of pegmatitic hornblende diorite and fine-grained hornblende plagiogranite (tonalite) in diabase dyke complexes; sheeted, medium- to coarse-grained, pyroxene-hornblende gabbro, diorite, and fine- to medium-grained, pyroxene-hornblende diabase; coarse- to very coarse-grained, layered pyroxenite (comp. Whalen, 1993a)</p>

King George IV Lake Complex

<div style="border: 1px solid black; background-color: #FFFF00; color: black; padding: 5px; display: inline-block;">eO:Kv</div>	<p>Dark green, mafic pillow lava and minor pillow breccia; intercalated mafic tuffs and green and red chert (Kean, 1983)</p>
<div style="border: 1px solid black; background-color: #808080; color: white; padding: 5px; display: inline-block;">eO:Kid</div>	<p>Fine- to medium-grained, sheeted diabase and gabbro (Kean, 1983)</p>
<div style="border: 1px solid black; background-color: #800080; color: white; padding: 5px; display: inline-block;">eO:Kit</div>	<p>Medium-grained tonalite and trondhjemite (Kean, 1983)</p>
<div style="border: 1px solid black; background-color: #00FF00; color: black; padding: 5px; display: inline-block;">eO:Kige</div>	<p>Medium-grained, equigranular, locally plagiophytic, gabbro and diabase dykes (Kean, 1983)</p>
<div style="border: 1px solid black; background-color: #00FF00; color: black; padding: 5px; display: inline-block;">eO:Kigl</div>	<p>Coarse-grained, melanocratic gabbro with local layering (Kean, 1983)</p>

Annieopsquotch Complex

eO:Nv

Dark to grey-green basaltic pillow lava, massive flows, pillow breccia, and diabase dykes and sills; mainly aphanitic and non-vesicular but locally plagioclase-porphyritic; cleaved near faults and locally deformed to chlorite schist; interpillow material, where it occurs, is mainly basalt, and rarely of hyaloclastite or red chert; diabase dykes and sills predominate in the lower part of the unit along its northwest boundary, and decrease towards the southeast (comp. Dunning, 1984; comp. Dunning and Chorlton, 1985)

eO:Nt

Altered and sheared, medium-grained, green gabbro and minor diabase dykes; tentatively assigned to Annieopsquotch Complex (comp. Kean, 1982)

eO:Nid

Sheeted diabase dykes, 1 cm to 10 m wide, many bordered by chilled margins and some containing plagioclase phenocrysts; locally contain clinopyroxene and hornblende phenocrysts and lithic inclusions; rare trondhjemite and diabase breccia dykes (comp. Dunning and Chorlton, 1985)

eO:Nit

Trondhjemite occurring as small, coarse-grained pods, which grade through hornblende diorite to gabbro, or as matrix to domains of intrusion breccia containing blocks of gabbro and diabase (comp. Dunning and Chorlton, 1985)

eO:Nig

Massive, coarse-grained, equigranular gabbro cut by diabase dykes and containing pods of trondhjemite and pegmatitic gabbro (comp. Dunning and Chorlton, 1985; comp. Kean, 1982)

eO:Nicm

Irregular masses of fine-grained, equigranular, mafic rock of the ophiolite critical zone, gradational into coarse-grained gabbro (comp. Dunning, 1984)

eO:Nict

Layered olivine-plagioclase-clinopyroxene cumulates of the ophiolite critical zone; graded layering, trough structures and pegmatitic pods occur locally (comp. Dunning and Chorlton, 1985)

eO:Niu

Coarse- to very coarse-grained, layered pyroxenite (Whalen, 1993a)

eO:N

Basaltic pillow lava and minor red chert; sheeted diabase dykes and rare trondjemite and breccia dykes; massive gabbro cut by diabase dykes and containing pods of trondjemite and pegmatitic gabbro; layered clinopyroxene cumulates (comp. Dunning and Chorlton, 1985)

Brighton gabbro

eO:BR

Coarse- to medium-grained hornblende clinopyroxenite and hornblendite, intruded by hornblende gabbro, hornblendite, diorite, quartz diorite, granodiorite and aplite (Kean et al., 1994b)

Glover Formation

eO:Vk

Greenschist and sericite schist within the Kettle Pond shear zone; derived from mafic igneous rocks and felsic volcanic rocks (comp. Cawood and van Gool, 1998)

eO:Vs

Tuff, tuffaceous sedimentary rocks and conglomerate (Whalen and Currie, 1988)

eO:Vvfr

Banded rhyolite (Whalen, 1993b)

eO:Vvfs

Intermediate to felsic volcanic rocks; chlorite-actinolite schist, porphyritic rhyolite and porphyry, gabbroic and dioritic sills, minor red chert (Currie et al., 1986)

eO:Vvm

Pillow basalt, agglomerate and diabase; minor red chert (Whalen, 1993b)

eO:Vv

Pillow basalt, massive basalt, agglomerate, and minor banded rhyolite and red chert (comp. Whalen, 1993b)

eO:Vi

Mafic intrusive rocks (comp. Whalen and Currie, 1988)

eO:V

Mafic and silicic volcanic rock and high level intrusions with minor volcanoclastic sedimentary rock (Cawood and van Gool, 1998)

Late Cambrian to Late Ordovician

Bay du Nord Group

Upper Sequence

O:NUsp

Early to Late Ordovician. Grey to black slate/phyllite; locally contains thin siltstone and fine-grained sandstone beds (Blackwood, 1983)

O:NUss

Early to Late Ordovician. Sandstone, siltstone and slate, locally containing pebble to cobble conglomerate, including quartz-pebble conglomerate (Blackwood, 1983)

O:NUsgc

Early to Late Ordovician. Marker horizon of graded psammite interlayered with several conglomerate layers (van Staal et al., 1996b)

O:NUsgp

Early to Late Ordovician. Mainly thin-bedded, pelitic and semipelitic, locally tuffaceous phyllites, minor rhyolite and graded, thin- to thick-bedded psammite (van Staal et al., 1996b)

O:NUvf

Early to Late Ordovician. Fine-grained felsic tuff, minor quartz-feldspar lapilli tuff and minor volcanic breccia; locally contains interbedded graphitic pelite (Blackwood, 1983)

O:NUvb

Early to Late Ordovician. Siliceous bedded tuff (O'Brien and Tomlin, 1983)

O:NUvr

Early to Late Ordovician. Massive and banded rhyolite, massive and banded felsic tuff (O'Brien and Tomlin, 1983)

CO:Nsp

Black slate, graphitic schist, phyllite and minor semipelite (O'Brien and Tomlin, 1983)

CO:Nvfx	Conglomerate and volcanic breccia (O'Brien and Tomlin, 1983)
CO:Nvfb	Siliceous bedded tuff (O'Brien and Tomlin, 1983)
CO:Nvft	Tuffaceous felsic volcanics with intercalated epiclastic and pelitic sediment (O'Brien and Tomlin, 1983)
CO:Nvfr	Massive and banded rhyolite; massive and banded felsic tuff (O'Brien and Tomlin, 1983)
CO:Nvm	Mafic tuff and dark green tuffaceous sediment; amphibolite (O'Brien and Tomlin, 1983)
CO:Nsmy	Psammitic and semipelitic schist, and migmatized equivalents; strongly foliated metasedimentary rocks and unseparated granite veins (Dickson et al., 1996b)
CO:Nsmm	Pelitic and semipelitic schist and migmatite with concordant leucogranite veins (Blackwood, 1983)
CO:Nsms	Biotite schist, semipelite and psammite together with granitoid and quartz segregations; siltstone and shale (Dickson et al., 1990)
CO:Nsmp	Thin- to thick-bedded, grey psammite, semipelite, phyllite, sandstone, siltstone and shale; rare boulder conglomerate, graphitic pelite and amphibolite (comp. O'Brien and Dickson, 1986; comp. Blackwood, 1983)
<i>Lower Sequence</i>	
CO:NLSb	Late Cambrian to Early Ordovician. Laminated phyllite, graphitic schist (Chorlton, 1980a)

CO:NLsgs	Late Cambrian to Early Ordovician. Predominantly black and grey sandstone, siltstone, shale, slate and phyllite; rare granule to pebble conglomerate (O'Brien, 1982)
CO:NLsgc	Late Cambrian to Early Ordovician. Cobble to boulder conglomerate, black slate and phyllite, grey siltstone; contains rare tuffaceous zones several metres above its base; may include Silurian rocks of the Dolman Cove Belt (comp. O'Brien, 1982)
CO:NLsgm	Late Cambrian to Early Ordovician. Dark phyllite with metagreywacke and graphite schist bands (Chorlton, 1980b)
CO:NLsm	Late Cambrian to Early Ordovician. Injected metasedimentary rocks (Chorlton, 1980a)
CO:NLssm	Late Cambrian to Early Ordovician. Schist derived from siltstone, mudstone and minor tuff (comp. Chorlton, 1978)
CO:NLssq	Late Cambrian to Early Ordovician. Schist derived from quartzo-feldspathic sandstone and siltstone (comp. Chorlton, 1978)
CO:NLss	Late Cambrian to Early Ordovician. Semipelitic, pelitic and psammitic schists (comp. Chorlton, 1980a; comp. Chorlton, 1978)
CO:NLvm	Late Cambrian to Early Ordovician. Amphibolite (Chorlton, 1980a)
CO:NLvfg	Late Cambrian to Early Ordovician. Silicic metavolcanic rocks, including pyroclastic rocks and tuffaceous metagreywacke; minor black slate (comp. Chorlton, 1980b; comp. O'Brien, 1982)

CO:NLvfr

Late Cambrian to Early Ordovician. Felsic volcanic rocks, rhyolite, welded tuff, crystal tuff and agglomerate (comp. Chorlton, 1980a; comp. O'Brien, 1982)

CO:NL

Late Cambrian to Early Ordovician. Black and grey sandstone, siltstone, shale, slate and phyllite; semipelitic schist; minor granule to boulder conglomerate and tuffaceous zones; felsic volcanic rocks, including rhyolite, pyroclastic rocks and tuffaceous metagreywacke; minor amphibolite; may include minor unseparated Silurian rocks of the Dolman Cove Belt (comp. Chorlton, 1980a; comp. Chorlton, 1980b)

Grand Bay Complex

CO:Diae

Gedrite-bearing amphibolite and schist, including gedrite-plagioclase and gedrite-hornblende-plagioclase amphibolite, and garnet-gedrite-hornblende-biotite-plagioclase-quartz schist; chlorite and chlorite-sericite schist; quartzo-feldspathic gneiss, commonly mylonitic and including muscovite-sericite schist; semipelitic schist (comp. Chorlton and Knight, 1983; comp. Dube and Lauziere, 1996c)

CO:Diag

Amphibolite, including garnet-bearing amphibolite (Chorlton and Knight, 1983)

CO:Diad

Coarse-grained, layered, diopside-bearing amphibolite with plagioclase-rich layers (Chorlton and Knight, 1983)

CO:Diac

Fine- to coarse-grained amphibolite, locally garnet-bearing amphibolite; in places interlayered with thin coticule and pelite bands (van Staal et al., 1996a)

CO:Diu

Ultramafic schist (van Staal et al., 1996a)

CO:Dss

Mainly semipelitic schist with local calcsilicate bands, including garnet-muscovite-biotite schist, muscovite-biotite schist, well bedded metasilstone, and migmatite; locally gneissic; probably includes unseparated rocks of the Port aux Basques Complex and Harbour Le Cou group (comp. Chorlton and Knight, 1983)

CO:Dsp

Mainly thin-bedded, brown to grey semipelitic and pelitic biotite-, garnet-, staurolite- and kyanite-bearing schists with common thin coticule layers and sparse volcanogenic, feldspathic psammite beds; locally gedrite-bearing, commonly associated with sulphide mineralization (e.g. Isle aux Morts prospect); includes interleaved Kelby Cove orthogneiss (van Staal et al., 1996b)

Late Cambrian to Middle Ordovician

Wild Bight Group

O:Wdu

Early to Middle Ordovician. Ultramafic base of gabbro sill (comp. MacLachlan, 1999)

O:Wd

Early to Middle Ordovician. Gabbro and diabase dykes and sills (MacLachlan, 1999)

Strong Island chert equivalent

mO:WC

Middle Ordovician. Red, green and grey, interbedded chert and argillite (O'Brien, 1991a)

Penny's Brook Formation

O:WPvf

Early to Middle Ordovician. Massive, fine-grained, flow-layered pink, quartz-feldspar porphyritic rhyolite and coarse-grained lapilli tuff (Dickson, 2000c)

O:WPvbn

Early to Middle Ordovician. Pillow lava and interstitial, variegated chert and minor, graded pillow breccia (Dickson et al., 2000)

O:WPvbls

Early to Middle Ordovician. Massive to weakly cleaved, extremely thick-bedded, green to grey, mafic agglomerate containing fine- and medium- grained, equigranular and plagioclase-porphyritic, uniform and amygdaloidal basalt fragments; rare massive basalt flows and mafic tuffaceous horizons; variably chloritized and epidotized (Dickson, 2000c)

O:WPvbln

Early to Middle Ordovician. Massive, very thick-bedded, fine grained, green basalt flows, pillow lava, pillow breccia, hyaloclastite; minor coarse-grained poorly sorted, polymict conglomerate at the top of the succession (Dickson, 2000c)

O:WPvbl

Early to Middle Ordovician. Grey, massive, fine-grained basalt breccia, pillow breccia and massive basalt dykes; minor felsic tuff (Dickson et al., 2000)

O:WPvb

Early to Middle Ordovician. Laterally discontinuous lenticles of pillow lava, pillow breccia and massive vesicular basalt breccia; associated sand-matrix olistostromes and chaotically-slumped mixtites with various volcanic and sedimentary intraclasts (O'Brien, 2001b)

O:WPBss

Early to Middle Ordovician. Massive to cleaved, medium- to very thick-bedded, grey sandstone, pebble sandstone and pebbly conglomerate, thin- to medium-bedded, grey sandstone and siltstone, yellow and cream, thin-bedded chert and siltstone; minor intraformational, chert-clast breccia and slumped chert units (Dickson, 2000c)

O:WPBsn

Early to Middle Ordovician. Massive to weakly cleaved, medium- to coarse-grained, green to buff, coarse-grained, poorly sorted, subangular, tuffaceous sandstone and pebble breccia; minor laminated, thick-bedded sandstone and quartz- rich sandstone (Dickson, 2000c)

O:WPBs

Early to Middle Ordovician. Thin-bedded, green and grey, variably mottled, concretionary turbidites; thin- and thick-bedded, grey-green sandstone containing imbricated rip-up clasts of slump-folded banded argillite grading to parallel-laminated sandstone; thickly-stratified, dark-green, tuffaceous wacke with predominant vesicular basalt and subordinate intermediate to felsic volcanic clasts; massive to thickly bedded epiclastic wacke (and associated debrites) with mixed sedimentary and volcanic clasts; minor pebbly wacke containing distinctive jasper and red argillite clasts (O'Brien, 2001b)

O:WPU

Early to Middle Ordovician. Upper member: Medium-bedded, massive, green greywacke and tuffaceous sandstone; thinly bedded to laminated, red and green argillite and chert (MacLachlan, 1999)

O:WPM

Early to Middle Ordovician. Middle member: Thickly bedded, medium- to fine-grained volcanoclastic rocks and greywacke, and minor thinly bedded to laminated, red and green chert and argillite (MacLachlan, 1999)

O:WPL

Early to Middle Ordovician. Lower member: Thickly bedded, coarse-grained, mafic-dominated, volcanoclastic sedimentary rocks and polyolithic conglomerates, and minor greywacke and thinly bedded to laminated, red and green argillite and chert (MacLachlan, 1999)

O:WPB

Early to Middle Ordovician. Thin-bedded, green and grey, variably mottled, concretionary turbidites; thin- and thick-bedded, grey-green sandstone containing imbricated rip-up clasts of slump-folded banded argillite grading to parallel-laminated sandstone; thickly-stratified, dark-green, tuffaceous wacke with predominant vesicular basalt and subordinate intermediate to felsic volcanic clasts; massive to thickly bedded epiclastic wacke (and associated debrites) with mixed sedimentary and volcanic clasts; minor pebbly wacke containing distinctive jasper and red argillite clasts; laterally discontinuous lenticles of pillow lava, pillow breccia and massive vesicular basalt breccia; associated sand-matrix olistostromes and chaotically-

slumped mixtites with various volcanic and sedimentary intraclasts; at New Bay Pond, quartz-feldspar porphyritic rhyolite and coarse-grained lapilli tuff (comp. O'Brien, 2001b; comp. Dickson, 2000c)

Sparrow Cove Formation

eO:WS

Early Ordovician. Dark-green, porphyritic pillow lava with some interstitial variegated chert; subordinate, thin-bedded, light green, graded sandstone and light-grey, parallel-laminated argillite interstratified with vesicular basalt flows; minor gabbro sills, rare tuff beds and rip-up clasts of tuffaceous wacke (O'Brien, 2001b)

Side Harbour basalt unit

O:Wbh

Early to Middle Ordovician. In the Side Harbour Pond area, pillow lava associated with jasper-bearing chert and siliceous red argillite; siliceous, hematite-rich vesicular basalt; minor, maroon siltstone lenses intercalated with amygdaloidal basalt flows (possibly Omega Point Formation) (O'Brien, 2001b)

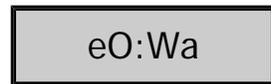
O:Wbm

Early to Middle Ordovician. In Seal Bay Bottom area, green vesicular pillow lava transitional to red pillow lava containing jasper disseminations; hematite-rich pillow breccia with interstitial red chert; collapsed, slumped and variably disaggregated pillowed basalt in sand-matrix debrite; minor gabbro sills; rare green laminated sandstone and red siliceous argillite (possibly lower Omega Point or upper Glovers Harbour Formation) (O'Brien, 2001b)

O:Wbk

Early to Middle Ordovician. In the upper Seal Bay Brook area, hematite-, epidote- and chlorite-bearing pillowed basalt, vesicular pillow lava having jasper disseminations; red and green basalt breccia, in places grading to fine-grained mafic tuff; local zones of highly discoidal pillow breccia with interstitial red chert; minor jasper-bearing chert and maroon argillite interbeds; rare diorite sills (possibly Omega Point Formation or alternatively upper Pennys Brook Formation) (O'Brien, 2001b)

Banded grey argillite unit



Early Ordovician. In the Little Lewis Lake area, thin interbeds of dark grey shale and light grey siltstone, laminated and banded siliceous grey argillite, and carbonaceous dark grey slate; minor debrite dominated by various sedimentary blocks. In the Seal Bay Brook - Big Lewis Lake area, mostly debrite having banded argillite blocks and altered volcanic blocks (possibly an uncommonly thick part of Omega Point Formation) (O'Brien, 2001b)

Omega Point Formation



Early Ordovician. In Long Pond area, pillowed basalt flows interstratified with red chert, red siliceous argillite, maroon siltstone and grey-green wacke (O'Brien, 2001b)



Early Ordovician. Red, massive to thickly-stratified, poorly-sorted gravel beds with subrounded cobbles and boulders of hematized volcanic and intrusive rocks; chaotically slumped debrite and red conglomeratic wacke; red chert, red siliceous argillite and hematitic banded iron formation; interbedded, red and green, parallel- and cross-laminated siltstone turbidites (having spotted pseudoporphyroblasts in places); dark grey carbonaceous shale; light grey, thickly-stratified, polymictic, conglomeratic turbidite (O'Brien, 2001b)

Glovers Harbour formation



Late Cambrian to Early Ordovician. Quartz and plagioclase-phyric felsic flows and domes, and minor tuffs, lapilli tuffs and fine-grained volcanoclastic rocks (MacLachlan, 1999)



Late Cambrian to Early Ordovician. Alkalic gabbro sills (MacLachlan, 1999)

CO:WGmv

Late Cambrian to Early Ordovician. Green to red, pillowed mafic volcanic flows and pillow breccias, abundant synvolcanic dykes and sills, and minor red and green chert and argillite (MacLachlan, 1999)

CO:WGfp

Late Cambrian to Early Ordovician. Dominantly felsic intrusive and volcanic rocks of the Long Pond area: hematite-rich, quartz-feldspar porphyry (locally injected by red chert veinlets); light grey rhyolite breccia and pyritic felsic tuff; rare, purplish-red rhyolite dykes (O'Brien, 2001b)

CO:WGmvp

Late Cambrian to Early Ordovician. Dominantly mafic volcanic rocks of the Long Pond area: dark green pillow breccia and light green basalt flows; minor mixed mafic-felsic volcanic breccia (O'Brien, 2001b)

CO:WGmvl

Late Cambrian to Early Ordovician. Dominantly mafic volcanic rocks of the Little Lewis Lake area: red basalt breccia containing disseminated jasper, green vesicular basalt with pyritic quartz stringers; minor slump-folded grey argillite (partially enclosing mafic volcanic blocks) (O'Brien, 2001b)

CO:WGfk

Late Cambrian to Early Ordovician. Dominantly felsic volcanic rocks of the Kerry Lake - Nanny Bag Lake area: light grey, well banded, flow-folded rhyolite intruded by diabase dykes; minor basalt flows (O'Brien, 2001b)

CO:WGmvk

Late Cambrian to Early Ordovician. Dominantly mafic volcanic rocks of the Kerry Lake - Nanny Bag Lake area: dark green, chloritic, pillowed basalt, light green, epidote-rich, pyritic, net-veined basalt; minor variegated, red and green, vesicular pillow lava (O'Brien, 2001b)

CO:WGfi

Late Cambrian to Early Ordovician. Dominantly felsic volcanic rocks of the Indian Cove - Corner Point area: purplish-red rhyolite breccia and hematitic flow-banded rhyolite; light grey, pyritic, rhyolite-dominant, volcanic breccia; mixed mafic-felsic volcanic breccia (having outsized basalt bombs and silicified flow-banded rhyolite blocks); minor, light green, quartz-pyritic crystal tuff; minor quartz-feldspar porphyry; rare, purplish-red rhyolite dykes (O'Brien, 2001b)

CO:WGmvi

Late Cambrian to Early Ordovician. Dominantly mafic volcanic rocks of the Indian Cove - Corner Point area: dark green, pillowed basalt, light green basalt breccia; minor diorite and diabase (O'Brien, 2001b)

CO:WGfn

Late Cambrian to Early Ordovician. Dominantly felsic volcanic rocks of the Big Lewis Lake - New Bay Pond area: massive, very fine-grained, equigranular or feldspar-porphyrific, cream to yellow, rhyodacite locally associated with minor fine-grained, weakly foliated, biotite granite (Dickson, 2000c)

CO:WGmvm

Late Cambrian to Early Ordovician. Dominantly mafic volcanic rocks of the Big Lewis Lake - New Bay Pond area: massive, dark grey and dark green, equigranular to plagioclase-porphyrific basalt flows; pillow lava and pillow breccia, grading to tuffaceous wacke; rare mafic tectonite (comp. O'Brien, 2001b; comp. Dickson, 2000c)

CO:WGmvb

Late Cambrian to Early Ordovician. Unseparated mafic and felsic volcanic rocks of the Big Lewis Lake - New Bay Pond area: light green siliceous basalt breccia, dark green pyritic basalt flows, felsic-mafic crystal lithic tuff; minor debris with banded argillite and siliceous basalt blocks (O'Brien, 2001b)

Gander River Complex

CO:Xsm

Fine- to medium-grained volcanoclastic rocks and porphyritic mafic flows (Blackwood, 1982b)

CO:Xs	Amphibolite, mafic to intermediate volcanoclastic rocks, quartz-porphyrific felsic volcanic rocks, and minor conglomerate (Blackwood et al., 1991)
CO:Xb	Mafic flows, including pillowed, porphyritic and amygdaloidal varieties (Blackwood, 1982b)
CO:Xifq	Quartz and/or feldspar porphyry, locally brecciated (Blackwood, 1982b)
CO:Xift	Fine- to coarse-grained trondhjemite, locally brecciated (Blackwood, 1982b)
CO:Xig	Fine- to coarse-grained gabbro, including minor amphibolite, diorite, tonalite, diabase and basalt (comp. Blackwood, 1982b; comp. Blackwood et al., 1991)
CO:Xiua	Altered ultramafic rock (O'Neill, 1991b)
CO:Xiuz	Serpentinite, magnesite and talc/tremolite schist; including minor pyroxenite (Blackwood, 1982b)
CO:Xiup	Medium- to coarse-grained pyroxenite, including minor serpentinite, magnesite, amphibolite, hornblendite and gabbro (Blackwood, 1982b)
Great Bend Complex	
CO:GBb	Chloritized basalt flows and schistose mafic tuff (Dickson, 1996a)
CO:GBig	Amphibolite and chloritized amphibolite schist, probably of gabbroic origin, and mylonitic serpentinite (Dickson, 1996a)
CO:GBium	Melange of sheared, cleaved siltstone and ultramafic rock (Dickson, 1996a)

CO:GBiuf	Fault-brecciated, red, silicified ultramafic rock (Dickson, 1996a)
CO:GBiur	Mainly schistose magnesite containing minor chromite layers and pods (Dickson, 1996a)
CO:GBiup	Pyroxenite, including magnesite-rich derivatives (Colman-Sadd and Russell, 1988)
CO:GBiud	Massive to schistose, layered, serpentized dunite and harzburgite (Dickson, 1996a)
CO:GBiuh	Massive to sheared, layered to uniform, variably serpentized harzburgite and minor dunite; includes magnesite-rich derivatives (comp. Dickson, 1996a)
Coy Pond Complex	
O:Ca	Early to Middle Ordovician. Thin-bedded, black argillite and sandstone; polymict conglomerate (Colman-Sadd, 1985a)
CO:Cb	Mafic pillow lava and pillow breccia (comp. Colman-Sadd, 1985a)
CO:Cit	Trondhjemite and keratophyre (Colman-Sadd, 1985a)
CO:Cig	Gabbro and diabase (Colman-Sadd, 1985a)
CO:Ciux	Brecciated and sheared serpentinite, and magnesite cut by abundant quartz veins (comp. Colman-Sadd, 1985a)
CO:Ciup	Massive pyroxenite, and layered pyroxenite, wehrlite and gabbro (Colman-Sadd, 1985a)
CO:Ciut	Sheared serpentinite and talc-magnesite schist (Colman-Sadd, 1985a)

CO:CIUH

Harzburgite (Colman-Sadd, 1985a)

Pipestone Pond Complex

CO:Pp

Mafic pillow lava and minor pillow breccia, commonly variolitic; lesser amounts of massive basalt; mafic tuff and/or epiclastic rocks (comp. Swinden, 1988)

CO:Pit

Medium- to coarse-grained trondhjemite and tonalite; includes minor diabase dykes (Swinden, 1988)

CO:Pig

Dominantly medium- to coarse-grained, equigranular pyroxene gabbro; includes dykes and pods of fine- to medium-grained diabase, pegmatitic gabbro and plagiogranite; basal parts contain pyroxenite layers (Swinden, 1988)

CO:Piut

Highly sheared and serpentized peridotite; local talc-magnesite schist (Swinden, 1988)

CO:Piup

Coarse- to medium-grained pyroxenite, locally interlayered with gabbro; includes magnesite-rich derivatives (Swinden, 1988)

CO:Piub

Banded pyroxenite and peridotite, locally highly carbonitized (Swinden, 1988)

CO:Piuh

Massive brown-weathering harzburgite, variably serpentized and commonly containing pyroxene phenocrysts and disseminated chromite; lesser amounts of dunite; includes magnesite-rich derivatives (Swinden, 1988)

CO:P

Ophiolite complex consisting of ultramafic rocks, including harzburgite and pyroxenite, gabbro, plagiogranite, diabase, basalt, and minor sedimentary rocks (comp. Swinden, 1988)

Unnamed ophiolite (emplaced in Bay du Nord Group)

CO:OBigd	Layered and locally massive metagabbro; rare metadiabase (O'Brien and Tomlin, 1983)
CO:OBigp	Layered metagabbro and rare metapyroxenite (O'Brien and Tomlin, 1983)
CO:OBim	Metagabbro, metapyroxenite (Chorlton, 1980a)
CO:OBiu	Dunite, layered metagabbro, and metapyroxenite (O'Brien and Tomlin, 1983)
CO:OB	Metagabbro, layered metagabbro, metapyroxenite; metadiabase and volcanic rocks; genetically related amphibolite (Chorlton, 1980b)

Unnamed ophiolite (Exploits Subzone)

O:Oss	Early to Middle Ordovician. Black and grey shale containing thin sandstone and siltstone beds (Colman-Sadd and Russell, 1988)
O:Osc	Early to Middle Ordovician. Conglomerate composed mainly of mafic volcanic clasts (Colman-Sadd and Russell, 1988)
CO:Obp	Mafic pillow lava and pillow breccia, commonly variolitic; lesser amounts of massive basalt; mafic tuff and/or epiclastic rocks (comp. Swinden, 1988)
CO:Oit	Medium- to coarse-grained trondhjemite and tonalite; includes minor diabase dykes (Swinden, 1988)
CO:Oigs	Dominantly medium- to coarse-grained, equigranular pyroxene gabbro; includes dykes and pods of fine- to medium-grained diabase, pegmatitic gabbro and plagiogranite; basal areas contain pyroxenite layers (Swinden, 1988)

CO:Oium	Tectonic melange of altered ultramafic rocks and sedimentary rocks (Colman-Sadd and Russell, 1988)
CO:Oiuc	Grey massive magnesite, veined by magnetite and carbonate (comp. Dickson, 1988)
CO:Oius	Highly sheared and quartz-veined, chromite-bearing magnesite (Dickson, 1990b)
CO:Oiut	Highly sheared and serpentized peridotite, containing disseminated chromite; local talc-magnesite schist (comp. Swinden, 1988)
CO:Oiup	Pyroxenite, including magnesite-rich derivatives (Colman-Sadd and Russell, 1988)
CO:Oiuh	Massive, brown-weathering harzburgite, variably serpentized and commonly containing pyroxene phenocrysts and disseminated chromite; lesser amounts of dunite; includes magnesite-rich derivatives (Swinden, 1988)
CO:Oiur	Serpentinite, minor pyroxenite, peridotite, and magnesite-rich rocks (Blackwood and Green, 1983)
CO:Obm	Tectonically brecciated and mylonitized mafic volcanic rocks (Colman-Sadd and Russell, 1988)
Unnamed ophiolite (emplaced in Gander Zone)	
CO:Ogg	Coarse-grained gabbro consisting of sericitized plagioclase and actinolitic hornblende formed after pyroxene; the gabbro is locally pegmatitic and contains patches of tourmaline-bearing granite pegmatite (O'Neill, 1991a)
CO:Ogup	Very coarse-grained, dark green pyroxenite metamorphosed to an assemblage of amphibole, chlorite and accessory opaque minerals; the rock has a heterogeneous tectonic foliation (comp. O'Neill, 1991a)

CO:Oguw

Foliated and banded talc-serpentine rock, containing various amounts of tremolite, chlorite and carbonate; minor green, fine-grained mafic rocks (comp. O'Neill and Colman-Sadd, 1993)

Late Cambrian to Early Ordovician

Cape Ray Granite

CO:CR

Mainly coarse-grained, moderately to strongly foliated, alkali feldspar megacrystic granite to granodiorite; abundant mafic and sparse ultramafic xenoliths (van Staal et al., 1996a)

Cape Ray Granite?

CO:CR?

Deformed megacrystic quartz monzonite, locally augen gneiss, minor megacryst-poor patches; abundant aplite and pegmatite; tentatively correlated with the Cape Ray Granite in the Port aux Basques area (NTS 110/11) (comp. Chorlton and Knight, 1983)

Unnamed ophiolite (emplaced in Fleur de Lys Supergroup)

CO:OFig

Metagabbro (van Berkel and Currie, 1988)

CO:OFiuc

Serpentinized ultramafic rock with talc-carbonate and quartz-carbonate-fuchsite alteration; restricted to fault-bound slivers in Fleur de Lys Supergroup (comp. Cawood and van Gool, 1998)

CO:OFiub

Serpentinized ultramafic rock tectonically included in the Birchy complex, and Rattling Brook and Old House Cove groups (comp. Hibbard, 1983)

CO:OFiu

Ultramafic rocks, including serpentinite, harzburgite, dunitite and/or pyroxenite (comp. van Berkel and Currie, 1988)

Unnamed ophiolite (Notre Dame Subzone)

CO:ONig

Metagabbro (van Berkel and Currie, 1988)

CO:ONiu

Ultramafic rocks, including serpentinite, harzburgite, dunite and/or pyroxenite (comp. van Berkel and Currie, 1988)

CO:ONi

Ultramafic rocks, gabbro, and diabase; probably ophiolitic fragments (comp. Whalen, 1993a)

CO:ON

Ultramafic rocks, gabbro, trondhjemite, diabase, volcanic and sedimentary rocks of the ophiolite suite (comp. various sources)

Pynns Brook Complex

CO:Yv

Mafic volcanic rocks, minor conglomerate (Williams et al., 1983)

CO:Yig

Mainly altered gabbro (Williams et al., 1983)

CO:Yiu

Serpentinite and altered ultramafic rocks (Williams et al., 1983)

Pacquet Harbour group

CO:Qi

Mainly dark green gabbro, metagabbro, diabase and metadiabase; locally feldspar porphyritic (Hibbard, 1983)

CO:Qea

Mainly amphibolite (Hibbard, 1983)

CO:Qes

Mainly mafic epiclastic and volcanoclastic rocks (Hibbard, 1983)

CO:Qevf

Mainly grey to white weathering, felsic volcanoclastic rocks, possibly including tuffs or flows (comp. Hibbard, 1983)

CO:Qevm

Mainly pale to dark green pillow lava; minor pillow breccia (Hibbard, 1983)

CO:Qe

Pillow lava, pillow breccia, and other mafic volcanic, volcanoclastic rocks and diabase dykes; minor felsic volcanoclastic rocks, possibly including tuffs or flows (comp. Hibbard, 1983)

Long Range Mafic-Ultramafic Complex

CO:Lv

Mafic metavolcanic rocks and dykes (Chorlton and Knight, 1983)

CO:Ligm

Massive, coarse- to medium-grained, subophitic metagabbro, local coarse actinolite metagabbro, intruded by metadiabase and plagiogranite (Chorlton and Knight, 1983)

CO:Ligl

Layered cumulate metagabbro, including metamorphosed troctolite, olivine gabbro, anorthositic gabbro, anorthosite, clinopyroxene gabbro, and rare gabbronorite (Chorlton and Knight, 1983)

CO:Lig

Mainly coarse-grained, layered to massive, locally strongly foliated, largely amphibolitic metagabbro, including troctolite, olivine gabbro, anorthositic gabbro, anorthosite, clinopyroxene gabbro and rare gabbronorite; minor thin layers of ultramafic rock and sheets of trondhjemite (comp. Chorlton and Knight, 1983; comp. van Staal et al., 1996a)

CO:Liu

Mainly greyish brown, largely serpentinized ultramafic rocks, including harzburgite, dunite, pyroxenite, serpentinite and local rodingite (comp. van Staal et al., 1996a; comp. Chorlton and Knight, 1983)

CO:La

Undivided amphibolite (Chorlton and Knight, 1983)

CO:L

Mainly coarse-grained, layered to massive, locally strongly foliated, largely amphibolitic metagabbro, including troctolite, olivine gabbro, anorthositic gabbro, anorthosite, clinopyroxene gabbro and rare gabbronorite; ultramafic rocks, including peridotite, dunite, serpentinite and local rodingite; metadiabase and plagiogranite; metavolcanic rocks and dykes; amphibolite (comp. Chorlton and Knight, 1983; comp. van Staal et al., 1996a)

Betts Cove Complex

*Betts Head
Formation*

CO:BBx

Brecciated facies (Bedard et al., 1999)

CO:BB

Spherulitic, amygdaloidal, sparsely olivine + chromite + orthopyroxene-phyric boninitic pillow lavas; several breccia types occur, including primary pillow breccia, fault breccia, heterolithic talus breccia impregnated by evolved boninites or gabbro, hyaloclastite and hydraulic breccias cemented by quartz + calcite + hematite + epidote + sulphides (Bedard et al., 1999)

CO:Bi_y

Sheeted dyke complex, including several types: 1. recessive-porphyritic chromite + olivine + orthopyroxene-phyric boninitic, 2. sparsely porphyritic, red-weathering boninitic, 3. blue-green-weathering diabasic (boninitic affinity), 4. pink-weathering microgabbroic (boninitic affinity); basal and upper contacts are gradational or faulted; minor gabbro and ultramafic screens (comp. Bedard et al., 1999; comp. Hibbard, 1983)

CO:Big_x

Brecciated gabbro-gabbronorite and related intrusive rocks (comp. Bedard et al., 1999)

CO:Big_b

Dominantly massive gabbro-gabbronorite, subordinate hornblende diorite and trondjemite, locally plagioclase-phyric or layered; pyroxenitic intrusions in sheeted dyke complex are probably related (comp. Bedard et al., 1999)

CO:Big

Gabbro with pods and layers of pyroxenite cut by diabase dykes; minor diorite and ultramafic rock (Hibbard, 1983)

CO:Biuc

Layered cumulates comprising cumulate peridotites (dominant poikilitic lherzolite, subordinate harzburgite and dunite), pyroxenites (orthopyroxenite, clinopyroxenite, and websterite) and foliated gabbro-norite sequences; size and modally graded rhythmic beds, loading structures; cut by pyroxenite and gabbro dykes and sills, and dykes related to sheeted dyke complex (comp. Bedard et al., 1999)

CO:Bius

Talc-serpentinite schists derived from altered and deformed peridotites; includes phacoidally cleaved serpentinites, matrix-supported peridotite breccia with carbonate veining, and talc + magnetite + magnesite + ankerite +/- sulphide schists (Bedard et al., 1999)

CO:Biu

Interlayered dunite, peridotite and pyroxenite, and serpentinized ultramafic and talc-carbonate rock; minor ultramafic breccia, including ultramafic +/- gabbro xenoliths in the Cape Brule Porphyry (comp. Hibbard, 1983)

Advocate complex

CO:Aes

Black slate and conglomeratic black slate containing clasts and large blocks of ophiolitic derivation; may in part be equivalent to the Kidney Pond conglomerate of the Flatwater Pond Group (Hibbard, 1983)

CO:Aev

Dominantly medium-grained greenschist; minor quartzite (Hibbard, 1983)

CO:Ae

Mainly grey-green mafic volcanic and volcanoclastic rocks and mafic dykes; local black slaty argillite, conglomeratic black slate, and gabbro-boulder conglomerate; minor chert (Hibbard, 1983)

CO:Aid

Mainly sheeted diabase dykes; minor screens of gabbro and pillow lava (Hibbard, 1983)

CO:Aigt	Gabbro altered to calc-silicate assemblages, including whitish zoisite-prehnite schist and zoisite-fuchsite schist (comp. Hibbard, 1983)
CO:Aigg	Mainly gabbro and metagabbro; minor serpentized ultramafic pods and layers (Hibbard, 1983)
CO:Aiut	Talc-carbonate and quartz-carbonate-fuchsite (virginite) alterations of ultramafic rocks (Hibbard, 1983)
CO:Aiuz	Serpentized ultramafic rocks; minor metagabbro (comp. Hibbard, 1983; comp. Hibbard et al., 1980a)
CO:Ai	Serpentized and altered ultramafic rocks, gabbro and metagabbro, diabase dykes and minor screens of pillow lava (comp. Hibbard, 1983)
Point Rousse complex	
CO:Ry	Grey-green, feldspar-porphyrific, diabase dykes (Hibbard, 1983)
CO:Rv	Unseparated pillow lava, mafic volcanoclastic rocks and diabase dykes; minor chert, marble, and iron formation (Hibbard, 1983)
CO:Rid	Mainly sheeted diabase dykes, locally feldspar porphyritic; minor screens of pillow lava and gabbro (Hibbard, 1983)
CO:Rigu	Mixed gabbro, metagabbro and ultramafic rock (Hibbard and Gagnon, 1980)
CO:Rigg	Gabbro and metagabbro (Hibbard and Gagnon, 1980)
CO:Rig	Mainly gabbro and metagabbro; minor diorite and serpentized ultramafic pods and layers (Hibbard, 1983)

CO:Riut

Ultramafic rock altered to talc-carbonate and quartz-carbonate-fuchsite (virginite) (comp. Hibbard, 1983)

CO:Riuz

Serpentinized ultramafic rock, locally brecciated (Hibbard, 1983)

South Lake Igneous Complex

CO:SLt

Tonalite (MacLachlan, 1999)

CO:SLdq

Quartz-hornblende diorite (MacLachlan, 1999)

CO:SLdh

Hornblende diorite (MacLachlan, 1999)

CO:SLgm

Massive gabbro (MacLachlan, 1999)

CO:SLgl

Layered gabbro, and sheeted mafic to intermediate dykes (MacLachlan and Dunning, 1998)

CO:SL

Coarse- to medium-grained tonalite, hornblende diorite, massive and layered gabbro, and sheeted dykes (comp. MacLachlan and Dunning, 1998)

Grand Lake Complex

CO:GLk

Greenschist, quartz-porphyroclastic mica schist, and serpentine and talc-carbonate schist within the Kettle Pond shear zone; derived from mafic igneous rocks, trondhjemite and ultramafic rocks (comp. Cawood and van Gool, 1998)

CO:GLg

Green to purple, banded and massive greenschist (comp. Cawood and van Gool, 1998)

CO:GLig

Gabbro, consisting of a lower, layered cumulate sequence defined by alternating melanocratic and leucocratic layers, and an upper massive section of mainly leucocratic gabbro (comp. Cawood and van Gool, 1998)

CO:GLiu

Variably serpentinized peridotite, wehrlite and talc-schist (comp. Cawood and van Gool, 1998)

Bell Island Group

Redmans Formation

CO:BER

Gray to white orthoquartzite and minor siltstone (King et al., 1988)

Little Bell Island Formation

CO:BEL

White sandstone interbedded with dark silty shale (King, 1988)

Weasel Group

CO:WS

Thin-bedded, grey limestone and buff shale, dark grey shale and limestone with local limestone breccia, limestone conglomerate with sandy limestone matrix (Williams et al., 1984)

Late Cambrian

Roebucks Brook intrusions

IC:RBq

Quartz monzonite, granodiorite and quartz diorite (Kean, 1982)

IC:RBg

Diorite and gabbro (Kean, 1982)

IC:RB

Quartz monzonite, granodiorite, quartz diorite, diorite and gabbro (comp. Kean, 1982)

Middle Cambrian to Late Ordovician

*Epine Cadoret
formation*

CO:EC

Black and grey slate, and minor brown weathering sandstone; may be equivalent to either Ordovician Goose Tickle Group or Cambrian March Point Formation (comp. Stouge and Godfrey, 1982)

Middle Cambrian to Middle Ordovician

Humber Arm Allochthon (high structural slices)

Melange

*Crolly Cove
melange*

mO:Umc

Middle Ordovician. Grey and black scaly shale with blocks of Blow Me Down Brook Formation sandstone and green pillow lava (comp. Williams, 1985b)

mO:Um

Middle Ordovician. Grey to black scaly shale melange with conspicuous blocks of volcanic rock, ophiolitic rocks, and Blow Me Down Brook Formation; peripheral to high ophiolitic and intermediate volcanic slices of Taconian allochthons (comp. Williams and Cawood, 1989)

Crabb Brook Group

mO:UC

Middle Ordovician. Pebble to boulder breccia, red, green and grey shale, calcareous sandstone and siltstone (Williams and Cawood, 1989)

Bay of Islands Complex

eO:UYv

Early Ordovician. Pillow basalt, volcanic breccia, minor jasper and clastic sedimentary rocks; mafic dykes abundant near base (Williams and Cawood, 1989)

eO:UYid

Early Ordovician. Altered mafic dykes and brecciated dykes, local gabbro screens (Williams and Cawood, 1989)

eO:UYit

Early Ordovician. Medium- to coarse-grained, massive hornblende gabbro, diorite, quartz diorite and trondhjemite (Williams, 1985a)

eO:UYitq

Early Ordovician. Quartz diorite (Williams, 1973)

eO:UYitg

Early Ordovician. Hornblende gabbro (Williams, 1973)

eO:UYig

Early Ordovician. Layered to massive gabbro, diorite, minor trondhjemite; mafic dykes abundant towards top of unit (Williams and Cawood, 1989)

eO:UYigm

Early Ordovician. Massive gabbro, minor amphibolite (Williams et al., 1984)

eO:UYigl

Early Ordovician. Medium- to coarse-grained, layered gabbro (Williams et al., 1984)

eO:UYiu

Early Ordovician. Ultramafic rocks of the ophiolite suite including serpentized harzburgite, dunite, pyroxenite, lherzolite, and more feldspathic rocks of the Critical Zone (comp. Williams and Cawood, 1989)

eO:UYiuc

Early Ordovician. Interlayered dunite, feldspathic dunite, troctolite, clinopyroxenite, olivine gabbro and anorthosite; transitional or Critical Zone between ultramafic rocks (below) and gabbroic rocks (above) (Williams, 1985a)

eO:UYiul

Early Ordovician. Gabbro, wehrlite, troctolite, clinopyroxenite and feldspathic dunite cumulate lenses in ultramafic rocks, intensely deformed locally (Williams, 1985a)

eO:UYiud

Early Ordovician. Serpentized dunite with veins and lenses of feldspathic dunite, pyroxenite, wehrlite and chromitite (Williams, 1985a)

eO:UYiuh

Early Ordovician. Serpentized medium- to coarse-grained harzburgite, dunite and pyroxenite, minor lherzolite (Williams, 1985a)

eO:UYiuo

Early Ordovician. Layered ultramafic rocks related to the Bay of Islands Complex but structurally interleaved with rocks of intermediate or low structural slices of the Humber Arm Allochthon (comp. Knight, 1994)

Metamorphic sole

eO:UYss

Early Ordovician. Quartz-feldspar-mica schist of sedimentary protolith (Williams, 1985a)

eO:UYsq

Early Ordovician. Quartz-feldspar gneiss (Williams et al., 1984)

eO:UYsa

Early Ordovician. Black amphibolite and garnetiferous amphibolite (comp. Williams et al., 1983)

eO:UYsg

Early Ordovician. Greenschist (Williams et al., 1983)

eO:UYs

Early Ordovician. Greenschist, amphibolite and minor quartz-mica schist (comp. Williams and Cawood, 1989)

Old Mans Cove Formation

CO:UO

Greenschist, minor marble (Williams and Cawood, 1989)

Mount Barren Complex

CO:UMu

Middle Cambrian to Early Ordovician. Lherzolite, feldspathic lherzolite, wehrlite, minor pyroxenite (intrusions with fine-grained margins), local intense deformation and serpentinization (Williams, 1985a)

CO:UMq

Middle Cambrian to Early Ordovician. Quartz-feldspar gneiss with layers amphibolite and mafic gneiss (Williams, 1985a)

CO:UMma	Middle Cambrian to Early Ordovician. Banded to intensely foliated mafic gneiss and amphibolite, deformed mafic dykes, foliated to mylonitic harzburgite, wehrlite and pyroxenite; gradational with gabbros of Little Port Complex (Williams, 1985a)
CO:UMmg	Middle Cambrian to Early Ordovician. Mafic granulite and migmatite with anorthosite and pyroxenite veins (Williams, 1985a)
Little Port Complex	
mC:ULvf	Middle Cambrian. Porphyritic (quartz) acidic tuffs and flows (Williams, 1973)
mC:ULvbx	Middle Cambrian. Pillow breccia, volcanic breccia and volcanoclastic rocks (Williams et al., 1984)
mC:ULvbp	Middle Cambrian. Altered green pillow lava, massive green lava (Williams et al., 1984)
mC:ULvb	Middle Cambrian. Green and red mafic pillow lava, pillow breccia and agglomerate, minor sedimentary rocks (Williams, 1973)
mC:ULv	Middle Cambrian. Pillow basalt with sheeted dykes, volcanic breccia, local dacite and silicic tuff, conglomerate and sandstone (Williams and Cawood, 1989)
mC:ULid	Middle Cambrian. Sheeted to brecciated, altered mafic dykes; gabbro with mafic dykes and trondhjemite; includes mafic volcanic rocks at Shag Island (comp. Williams and Cawood, 1989; comp. Williams, 1985a)
mC:ULit	Middle Cambrian. Massive to foliated, grey and pink, quartz diorite and trondhjemite; minor diabase and gabbro (comp. Williams and Cawood, 1989; comp. Williams et al., 1984)

mC:ULigt

Middle Cambrian. Gabbro with numerous mafic dykes and trondhjemitic intrusions (Williams, 1985a)

mC:ULig

Middle Cambrian. Massive to foliated gabbro, metagabbro and amphibolite; local serpentinitized ultramafic rocks and serpentinite melange; includes mafic dykes and small tonalite intrusions (comp. Williams and Cawood, 1989; comp. Williams, 1985b)

mC:ULiu

Middle Cambrian. Serpentinitized mafic to ultramafic rocks (Williams, 1985a)

Pinchgut Lake Group

CO:PLc

Predominantly limestone and limestone conglomerate (Cawood and van Gool, 1998)

CO:PLm

Micaceous phyllite, and conglomeratic and crystalline grey marble (Knight, 1996)

C:PLo

Middle to Late Cambrian. Marker bed of oolitic and quartzitic limestone, dolostone, and limestone conglomerate (Knight, 1996)

CO:PLI

Limestone conglomerate (Knight, 1996)

CO:PLw

Limestone conglomerate set in a dolomitic matrix, interbedded with pebbly sandy limestone; resembles limestone conglomerates of the Pinchgut Lake and Weasel groups; assignment to the Pinchgut Lake Group is tentative (comp. Knight, 2003)

CO:PL

Grey and silver-grey phyllite, slate, calcareous and dolomitic phyllite, dolomitic and phyllitic ribbon limestone, oolitic and quartzitic limestone and dolostone, and limestone conglomerate (comp. Knight, 1996)

Middle Cambrian to Early Ordovician

Port au Port Group

CO:Tc

Recrystallized limestone and deformed grey to white marble, derived by metamorphism of Port au Port Group (comp. Williams et al., 1983)

Berry Head Formation

CO:TBn

Late Cambrian to Early Ordovician. Thick to thin bedded, buff to white weathering, light grey to dark grey dolostone, commonly associated with chert and stromatolitic dolostone; large mounds of dark grey to black stromatolitic, thrombolitic and cherty dolostone occur locally at the base of the formation (comp. Knight and Edwards, 1986a; comp. Knight, 1991b)

CO:TBcu

Late Cambrian to Early Ordovician. Upper member of interbedded burrowed, stromatolitic, parted, grainy and laminated, dark grey to off-white limestone and massive to laminated dolostone; the carbonates are metamorphosed to low grade lime and dolomite marbles in more easterly thrust slices (Knight, 1994)

IC:TBcc

Late Cambrian. Off-white conglomeratic limestone/marble (Knight, 1994)

IC:TBcl

Late Cambrian. Lower member of thick-bedded, grey, cream, pink and purple dolostone; chert and thrombolite mounds occur locally in the lower part (Knight, 1996)

CO:TBc

Late Cambrian to Early Ordovician. Upper member of dark grey to off-white limestone and massive to laminated dolostone, and lower member of thick-bedded, light grey to cream dolostone; off-white conglomeratic limestone/marble near the base; chert occurs locally in the lower part (comp. Knight, 1994)

CO:TBs

Late Cambrian to Early Ordovician. Upper member of intercalated, bioturbated, grainy, stromatolitic and laminated limestone with burrowed, massive, stromatolitic, and laminated dolostone; middle member of bedded dolostone; basal member of stromatolitic and thrombolitic, cherty, dark-grey dolostone (Knight, 2000)

Petit Jardin Formation

C:TPm

Middle to Late Cambrian. Structurally thinned yellow-weathering, massive, light grey dolomite marble (comp. Knight et al., 1986b)

IC:TPnu

Late Cambrian. Upper dolostone member: Thick and thin bedded, light grey dolostone, some dark grey dolostone, minor oolitic dolostone and some shale interbeds (Knight, 1991b)

IC:TPnms

Late Cambrian. Green, red and grey shale with thin beds of dolostone (comp. Knight and Edwards, 1986b)

C:TPnmd

Middle to Late Cambrian. Middle stromatolite member: Stromatolitic dolostone, some oolitic dolostone, intraclastic dolerudite, and thinly bedded dolostone; some green, red and grey shale (Knight and Edwards, 1986b)

C:TPnml

Middle to Late Cambrian. Middle stromatolite member: Stromatolitic dolostone and limestone, oolitic dolostone and limestone, intraclastic dolerudite and limestone, thinly bedded dolostone, parted dolomitic limestone, some green, red and grey shale (Knight, 1991b)

mC:TPnls

Middle Cambrian. Green, grey and locally red dolomitic shale with thin dolostone interbeds (comp. Knight and Edwards, 1986b)

mC:TPnl

Middle Cambrian. Lower dolostone member: Thin bedded dolostone, associated with interbedded green, grey and locally red dolomitic shale and some stromatolitic dolostone (Knight, 1991b)

C:TPnt

Middle to Late Cambrian. Yellow, buff to white weathering, light grey and grey, microcrystalline to finely crystalline dolostones including burrow-mottled, stromatolitic, fenestral and locally brecciated dolostone; dolostones are intercalated with thick units of brown-weathering, thin bedded, argillaceous dolostone and dolostone interbedded with stromatolitic dolostone, and dark grey, oolitic dolostone (comp. Knight et al., 1986b)

C:TPn

Middle to Late Cambrian. Yellow or buff to white weathering, light grey to white, microcrystalline to finely crystalline dolostones and lesser red, green and grey shale interbeds; stromatolite mounds common; locally oolitic and stromatolitic limestones in the middle of the formation; cherty dolostones towards the top (comp. Knight, 1985)

IC:TPcu

Late Cambrian. Light grey, pink and purple, massive, laminated, argillaceous, microcrystalline dolostone, locally stromatolitic and crossbedded; limestone locally preserved near Goose Arm (comp. Knight, 1994; comp. Knight, 1996)

mC:TPcm

Middle Cambrian. Interbedded grey to off-white, stromatolitic, oolitic and parted dolomitic limestone and low-grade marble with buff, yellow to rusty-brown weathering, light grey dolostone, dololaminite and argillaceous dolostone (comp. Knight, 1994; comp. Knight, 1996)

mC:TPcl

Middle Cambrian. Light grey, pink and purple, massive, laminated, argillaceous, microcrystalline dolostone, locally stromatolitic and crossbedded (comp. Knight, 1994; comp. Knight, 1996)

C:TPld

Middle to Late Cambrian. Thin- to medium-bedded, buff to white dolomite and dolomitic marble, green dolomitic shale, minor black limestone (Williams et al., 1984)

C:TPII

Middle to Late Cambrian. Grey shale, limestone and chlorite schist (Williams et al., 1984)

C:TPzu

Middle to Late Cambrian. Light grey, pink and purple, microcrystalline dolostone, dololaminite and argillaceous dolostone; rare limestone (comp. Knight, 1994)

C:TPzl

Middle to Late Cambrian. Crossbedded oolitic dolostone and/or oolitic limestone, intercalated with bioturbated dolostone (comp. Knight, 1994)

IC:TPsd

Late Cambrian. Bedded stromatolitic, massive and laminated, grey and light-grey dolostone (Knight, 2000)

C:TPsl

Middle to Late Cambrian. Argillaceous and dolomitic blue-grey ribbon limestone, grey ribbon, stylo-nodular and parted limestone, grey, green and red shale, intraformational lime conglomerate, stromatolitic limestone, laminated limestone, oolitic and intraclastic grainy limestone, dolostone, dololaminite and sandy dolostone (Knight, 2000)

C:TPs

Middle to Late Cambrian. Argillaceous and dolomitic blue-grey ribbon limestone, grey ribbon, stylo-nodular and parted limestone, grey, green and red shale, intraformational lime conglomerate, stromatolitic limestone, laminated limestone, oolitic and intraclastic grainy limestone, dolostone, dololaminite and sandy dolostone; overlain by bedded stromatolitic, massive and laminated, grey and light-grey dolostone (comp. Knight, 2000)

March Point Formation

mC:TMn

Middle Cambrian. Dark grey, argillaceous dolostone, argillaceous parted limestone, bioturbated and fossiliferous dolomitic limestone, minor shale intercalated sandstone, glauconitic sandstone, dolostone and intraformational dolorudite at base (comp. Knight, 1991b)

mC:TMc	Middle Cambrian. Grey, oolitic, oncolitic and bioturbated dolomitic limestone; the lower part consists of shale, stromatolitic and intraclastic-oncolitic limestone, with or without thin beds of sandstone and dolostone; the upper part is dolomitized towards the top of the formation (comp. Knight, 1994)
mC:TMI	Middle Cambrian. Medium- to thick-bedded, grey limestone with thick oolitic units; grey limestone with button algae at base; minor shale (Williams et al., 1984)
mC:TMsb	Middle Cambrian. Basal unit of grey limestone and thin shale units (comp. Williams, 1985a)
mC:TMs	Middle Cambrian. Grey, bioturbated, dolomitic limestone with minor oolitic and oncolitic limestone; lower unit of phyllite and ribbon limestone; the top of the formation is locally dolomitized (Knight, 1996)
CO:TW	White Bay: Thick-bedded, recrystallized, white dolostone, dolomitic slate, and minor interbedded dark grey limestone (Smyth and Schillereff, 1981a)
CO:T	Muddy carbonate rocks, oolitic sequences, silty mudstone, and stromatolites, variably dolomitized, deposited in a subtidal to peritidal environment on a narrow, high-energy carbonate platform (comp. James et al., 1989)
Harcourt Group <i>Elliotts Cove Formation</i>	
C:HE	Middle to Late Cambrian. Gray, green to black, silty, micaceous shale, slate and siltstone; limestone concretions (King, 1988)
<i>Manuels River Formation</i>	
C:HMd	Middle to Late Cambrian. Diabase (O'Brien, 1994b)

mC:HM

Middle Cambrian. Fossiliferous black shale with grey calcareous concretions, thin grey limestone beds; mafic pillow lava and pyroclastics, including Hay Cove and Chapel Arm members (comp. King, 1988; comp. O'Brien, 1994b)

Middle Cambrian

Reluctant Head Formation

mC:Rc

Marble-rich sequence (Cawood and van Gool, 1998)

mC:Rm

Grey to silvery-grey, slate and phyllite intercalated with dolomitic ribbon limestone, planar thin-bedded and laminated dolomitic argillite and lesser dolomitic and argillaceous, stylonodular and parted limestone; shalier in the lower part; oolitic and intraclastic grainstone locally at Canada Bay (comp. Knight and Boyce, 1991; comp. Knight, in preparation)

mC:Rpc

Limestone conglomerate (Knight, 1994)

mC:Rp

Grey to silvery-grey, slate and phyllite intercalated with dolomitic ribbon limestone, planar thin-bedded and laminated dolomitic argillite, lesser dolomitic and argillaceous, stylonodular and parted limestone, and oolitic and intraclastic grainstone; small pebble to boulder, matrix- to clast-supported carbonate conglomerates (comp. Knight, 1994)

mC:R

Grey to silvery-grey, slate and phyllite intercalated with dolomitic ribbon limestone, planar thin-bedded and laminated dolomitic argillite and lesser dolomitic and argillaceous, stylonodular and parted limestone and oolitic and intraclastic grainstone; small pebble to boulder, matrix- to clast-supported carbonate conglomerates are interspersed throughout the formation which is shalier in the lower part; towards the top of the formation, ribbon limestones are intercalated with bedded, bioturbated fine-grained, grainy and fossiliferous dolomitic limestones and a rare stromatolitic limestone (comp. Knight and Boyce, 1991; comp. Knight, in preparation)

mC:s

Undivided black and grey shale and siltstone containing beds and lenses of grey limestone and sandstone (comp. O'Driscoll et al., 1995)

Spread Eagle Gabbro

mC:SE

Diabase and gabbro (may feed Cambrian volcanic rocks) (King, 1988)

Early Cambrian to Late Ordovician

Victoria Lake Supergroup

Mid-Ordovician

black shale

IO:Vc

Late Ordovician. Carbonaceous black shale and argillite; minor thin lenses of sandstone and silicic tuff; continuity of outcrop area, locally defined by geophysics, suggests correlation with mid-Ordovician black shales northeast of Red Indian Lake (comp. Kean, 1982)

Harpoon Brook Belt

Volcanic rocks

CO:VHvv

Early Cambrian to Middle Ordovician. Valley Brook basalts: Mafic pillow lava; local green, interpillow chert (comp. Evans et al., 1994b; comp. Evans and Kean, 2002)

CO:VHvtp	Early Cambrian to Middle Ordovician. Tom Joe Brook basalts: Mafic pillow lava; local green, interpillow chert (comp. Evans et al., 1994b; comp. Evans and Kean, 2002)
CO:VHvt	Early Cambrian to Middle Ordovician. Tom Joe Brook basalts: Mafic pillow lava and agglomerate; local green interpillow chert (comp. Evans et al., 1994b; comp. Evans and Kean, 2002)
CO:VHvl	Early Cambrian to Middle Ordovician. Lemotte's Ridge basalts: Green pillow lava, pyroclastic breccia and minor agglomerate; interbedded mafic tuff; minor felsic volcanics and blue-green chert (Kean and Mercer, 1981)
CO:VHvx	Early Cambrian to Middle Ordovician. Mafic agglomerate (Evans et al., 1994b)
<i>Sedimentary rocks</i>	
CO:VHsha	Early Cambrian to Middle Ordovician. Siliceous siltstone, chert, and minor argillite and sandstone (Evans et al., 1994b)
CO:VHshe	Early Cambrian to Middle Ordovician. Siliceous siltstone, green and black argillite and shale and interbedded litharenite; minor green chert, red argillite and tuff; minor unseparated mafic volcanic rocks (Kean and Mercer, 1981)
CO:VHsc	Early Cambrian to Middle Ordovician. Pebble to boulder conglomerate (Evans et al., 1994b)
CO:VHsx	Early Cambrian to Middle Ordovician. Mixtite (Evans et al., 1994b)
CO:VHssa	Early Cambrian to Middle Ordovician. Grey, green and black siltstone, argillite, shale and sandstone (Evans et al., 1994b)

CO:VHssw

Early Cambrian to Middle Ordovician. Greywacke and minor pebble conglomerate, siltstone and argillite (Evans et al., 1994a)

CO:VHss

Early Cambrian to Middle Ordovician. Fine- to coarse-grained sandstone and minor pebble conglomerate, siltstone, argillite, black shale and limestone (Evans et al., 1994b)

CO:VHs

Early Cambrian to Middle Ordovician. Fine- to coarse-grained sandstone and minor pebble conglomerate, argillite, black shale and limestone; siliceous siltstone, chert, and minor tuff; locally minor unseparated mafic volcanic rocks (comp. Evans et al., 1994a; comp. Kean and Mercer, 1981)

Harbour Round Belt

Victoria Bridge sequence

mO:VHV

Middle Ordovician. Green tuff and greywacke; minor feldsparphyric andesite (comp. Evans et al., 1994a; comp. Evans and Kean, 2002)

mO:VHVf

Middle Ordovician. Felsite (Evans et al., 1994a)

mO:VHs

Middle Ordovician. Fine-grained green sandstone, siltstone and greywacke (Kean, 1977)

Harbour Round basalt

mO:VHB

Middle Ordovician. Mafic tuff, agglomerate, pillow lava, breccia and interpillow red chert (Evans et al., 1994a)

West Tulks Pond sediments

mO:VHT

Middle Ordovician. Fine-grained, bedded andesitic to silicic tuff (Kean, 1982)

Harbour Round Formation



Middle Ordovician. Finely bedded and laminated, green and minor red, contorted siltstone; minor red chert (Kean, 1979a)

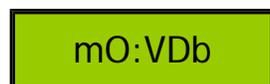


Middle Ordovician. Interbedded black argillite, siltstone, greywacke and minor conglomerate (Kean, 1979a)

Diversion Lake group



Middle Ordovician. Felsic tuff and breccia (Kean and Mercer, 1981)



Middle Ordovician. Green, mafic to intermediate pillow lava, pillow breccia, and interbedded pyroclastic breccia, lapilli tuff and tuff (locally sheared); minor unseparated diabase and gabbro dykes and sills; contains unseparated siliciclastic sedimentary rocks in places (Kean and Mercer, 1981)

Stanley Waters sediments



Middle to Late Ordovician. Thinly bedded, banded, rhythmically layered, grey, green and black siltstone, argillite, sandstone, black shale, phyllite, minor tuff and greywacke (Kean, 1982)

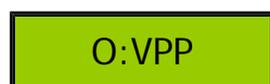
Point of the Woods Belt

Lake Douglas basalts



Early to Late Ordovician. Mafic volcanic rocks, including pillow lava, massive flows and volcanic breccia (Colman-Sadd, 1987)

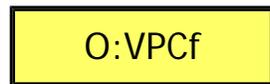
Pine Falls Formation



Early to Late Ordovician. Mafic tuff, pillow lava and massive flows; minor intercalated marble and black shale; minor unseparated ultramafic rocks (Evans et al., 1994a)

Carter Lake formation

Early to Late Ordovician. Mafic pillow lava and breccia (Evans et al., 1994a)



Early to Late Ordovician. Quartz porphyry, quartz-feldspar porphyry, felsic tuff and rhyolite (Evans et al., 1994a)



Early to Late Ordovician. Dark grey and black, graphitic pelite with minor green volcanoclastic sandstone beds (Colman-Sadd, 1987)



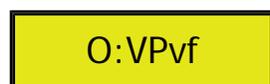
Early to Late Ordovician. Micaceous semipelitic schist, chlorite schist and garnet-biotite-muscovite-staurolite schist (Kean, 1983)



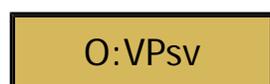
Early to Late Ordovician. Grey, green and black siltstone, argillite, slate and phyllite and grey sandstone (Kean, 1983)



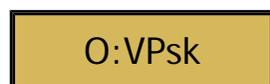
Early to Late Ordovician. Meta-argillite, black shale, phyllite and minor tuff (Kean, 1982)



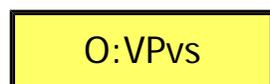
Early to Late Ordovician. Lithic and quartz-crystal tuff (Colman-Sadd, 1987)



Early to Late Ordovician. Volcaniclastic sedimentary rocks, rich in mafic volcanic clasts; includes laminated and thin-bedded sandstone and shale, thick-bedded sandstone and grit, and unbedded conglomerate (Colman-Sadd, 1987)



Early to Middle Ordovician. Arkosic sandstone, siltstone and phyllitic shale (Colman-Sadd, 1987)



Early to Middle Ordovician. Grey, crystal-lithic, felsic tuff with rusty pyritic lenses; may include felsic flows and/or subvolcanic intrusions in hills east of Lake Douglas (Colman-Sadd, 1987)

O:VPsc

Early to Middle Ordovician. Polymict conglomerate with interbedded shale and siltstone (Colman-Sadd, 1987)

O:VPvt

Early to Late Ordovician. Grey, quartz-feldspar crystal tuff (Colman-Sadd, 1987)

O:VPss

Early to Middle Ordovician. Thinly bedded and laminated, phyllitic shale, siltstone and sandstone; includes unseparated limestone, graphitic shale and felsic tuff beds (Colman-Sadd, 1987)

O:VPsh

Early to Late Ordovician. Green to grey phyllite, siltstone and sandstone with minor pebble conglomerate, black shale and tuffaceous beds (Evans et al., 1994a)

Tulks Hill volcanics

CO:VTp

Middle Cambrian to Early Ordovician. Henry Waters basalts: Fine-grained, green pillow lava (Kean, 1982)

CO:VTu

Middle Cambrian to Early Ordovician. Upper basalt: Mafic tuff, agglomerate and pillow lava (Evans et al., 1994a)

CO:VTh

Middle Cambrian to Early Ordovician. Harmsworth Steady basalts: Calc-alkalic mafic tuff, agglomerate and pillow lava; includes Number 5 Dam basalts of Evans and Kean Open File NFLD/2790, 2002 (comp. Evans et al., 1994a; comp. Evans and Kean, 2002)

CO:VTsb

Middle Cambrian to Early Ordovician. Tuffaceous, carbonaceous argillite and intercalated tuff (Kean, 1982)

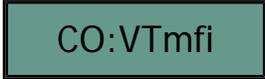
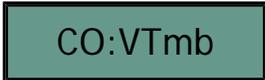
CO:VTsa

Middle Cambrian to Early Ordovician. Argillite, shale, sandstone and greywacke (Evans et al., 1994a)

CO:VTt

Middle Cambrian to Early Ordovician. Interbedded mafic and felsic tuffs and minor sedimentary rocks (Kean, 1983)

CO:VTi	Middle Cambrian to Early Ordovician. Grey to green, locally flow-banded, feldsparphyric intermediate agglomerate, pyroclastic breccia, tuff, and minor intrusive phases (Kean, 1982)
CO:VTfxv	Middle Cambrian to Early Ordovician. Volcanic breccia and agglomerate with quartz and feldspar phenocrysts (comp. Kean, 1982)
CO:VTfx	Middle Cambrian to Early Ordovician. Felsic pyroclastic breccia (Evans et al., 1994a)
CO:VTfb	Middle Cambrian to Early Ordovician. Grey, green and pink, fine-grained, bedded silicic tuff, and breccia (feldsparphyric in places); possibly includes some flows (Kean, 1982)
CO:VTfce	Middle Cambrian to Early Ordovician. Intermediate to felsic quartz-(feldspar) crystal tuffs, lapilli tuffs, breccias, quartz-eye sericite schists and epiclastic volcanic rocks; minor intercalated argillite and shale (Kean, 1983)
CO:VTfc	Middle Cambrian to Early Ordovician. Intermediate to silicic, white and green, quartz-feldspar crystal tuffs and unseparated breccia; minor argillite and shale (comp. Kean, 1982; comp. Kean, 1983)
CO:VTfv	Middle Cambrian to Early Ordovician. Pink, buff and green, aphanitic, silicic vitric tuff and quartz-vitric tuff (phyllite and sericite schist) (Kean, 1982)
CO:VTf	Middle Cambrian to Early Ordovician. Felsic tuff, lapilli tuff, quartz-feldspar crystal tuff, quartz porphyry and pyroclastic breccia (Evans et al., 1994a)
CO:VTmla	Middle Cambrian to Early Ordovician. Dark green to green, mafic pillow lava; minor agglomerate and tuff and rare sedimentary rocks (Kean, 1983)

	Middle Cambrian to Early Ordovician. Mafic and intermediate lava, pillow lava, agglomerate and minor unseparated tuff (Kean, 1979a)
	Middle Cambrian to Early Ordovician. Intermediate feldsparphyric lava (Kean, 1979a)
	Middle Cambrian to Early Ordovician. Intercalated mafic volcanic rocks, minor felsic tuffs, red and green argillite and siltstone and minor chert (Kean, 1983)
	Middle Cambrian to Early Ordovician. Intermediate and minor silicic, heterolithic pyroclastic breccia, minor andesitic agglomerate and flows, and associated lithic tuff and fine-grained reworked tuff (Kean, 1982)
	Middle Cambrian to Early Ordovician. Intermediate to mafic lithic, crystal-lithic and crystal tuff, and bedded reworked tuff; flows and minor unseparated silicic tuff (Kean, 1982)
	Middle Cambrian to Early Ordovician. Felsic pyroclastic rocks; mafic flows, pillow lava and pyroclastic rocks (comp. Evans et al., 1994a)
	Black shale, locally graphitic (Kean, 1982)
Tally Pond volcanics	
<i>Burnt Pond sediments</i>	
	Early to Middle Cambrian. Siltstone, chert, and minor greywacke and pebble conglomerate (Evans et al., 1994a)
	Early to Middle Cambrian. Sandy Lake basalts: Minor mafic tuff, agglomerate, breccia, flows, pillow lava, and andesite (comp. Evans et al., 1994a)

C:VTt

Early to Middle Cambrian. Mafic tuff, agglomerate, breccia, flows, pillow lava, andesite and unseparated minor mafic intrusions (comp. Evans et al., 1994a)

C:VTi

Early to Middle Cambrian. Intermediate, non-pillowed flows; minor felsic flows, tuffs and breccias (Evans et al., 1994b)

C:VTfm

Early to Middle Cambrian. Interbedded felsic crystal tuff and lapilli tuff (Colman-Sadd and Russell, 1988)

C:VTf

Early to Middle Cambrian. Felsic tuff, breccia, porphyry, crystal tuff and rhyolite (Evans et al., 1994a)

CO:i

Intermediate intrusive rock (O'Neill, 1991a)

Hare Bay Gneiss

CO:HGt

Early Cambrian to Early Ordovician. Unseparated metasedimentary gneiss, tonalitic orthogneiss, orthogneiss with enclaves of paagneiss, mobilized gneiss, and amphibolite. (comp. O'Brien et al., 1987; comp. O'Brien et al., 1991)

CO:HG

Irregularly banded biotite migmatites and minor well banded tonalitic orthogneiss containing profuse rafts and xenoliths of semipelite, pelite, psammite, and amphibolite. Locally, the tonalite gneiss is garnetiferous. The gneissosity of the host rock wraps around the xenoliths, which have internal disoriented, tectonic fabrics. Complex interference patterns are common. The metamorphic grade is upper amphibolite facies. (Williams et al., 1985)

Square Pond Gneiss

CO:SQfh

Weakly to strongly foliated, porphyritic coarse grained, biotite +/- hornblende granite and granodiorite. (comp. Dickson, 1983)

CO:SQfm	Strongly foliated, uniform to porphyritic, medium grained, biotite +/- muscovite granite. (comp. Dickson, 1983)
CO:SQf	Unseparated, foliated, medium to coarse grained equigranular to porphyritic biotite-hornblende granitoids, biotite-muscovite granite and muscovite-garnet-tourmaline granite. Formerly referred to as the "Eastern Meelpaeg Complex". Includes minor sedimentary rocks. May include rocks equivalent to Odf (Mainly foliated feldspar megacrystic to coarse grained porphyritic and equigranular biotite granite and granodiorite) (Blackwood et al., 1984)
CO:SQp	Psammitic to semipelitic paragneiss. (O'Brien et al., 1987)
CO:SQ	Psammitic paragneiss with characteristic "pinstripe" banding. Semipelitic and pelitic" zones are common and small zones of migmatite are developed locally. An original clastic texture has been preserved locally in the metasediments. The gneiss has a composite schistose to gneissic fabric. Metamorphic grade varies from upper greenschist to upper amphibolite facies. Includes the foliated medium to coarse grained granitoids formerly referred to as the "Eastern Meelpaeg Complex" (Williams et al., 1985; comp. Blackwood et al., 1984)

Early Cambrian to Middle Ordovician

Moretons Harbour Group

Western Head Formation

CO:MHs	Grey chert; minor red chert and sliceous argillite (O'Brien, 1990a)
CO:MHvp	Dark green, mafic pillow lava (O'Brien, 1990a)
CO:MHvx	Well stratified, dark green, mafic agglomerate and pillow breccia (O'Brien, 1990a)

CO:MH

Basaltic pillow lava, pillow breccia, and minor tuff, chert and argillite (comp. Williams et al., 1985; comp. O'Brien, 1990a)

Little Harbour Formation

CO:ML

Aquagene tuff, pillow breccia, and pillow lava with feeder dykes (Williams et al., 1985)

Wild Bight Intrusive Terrane

CO:MB

Sheeted and non-sheeted diabase dykes with minor mafic pillow lava screens (Williams et al., 1985)

Sweeny Island formation

CO:MS

Coarse-grained, porphyritic, mafic lava flows; sheeted diabase dykes with minor screens of lava (O'Brien, 1990a)

Webber Bight Formation

CO:MW

Feldspar-clinopyroxene-porphyritic basaltic pillow lava, with several intercalated units of thinly laminated cherty argillites; diabase dykes are common and increase upwards (Williams et al., 1985)

Gander Group

Indian Bay Big Pond Formation

O:GIsa

Early to Middle Ordovician. Medium- to thick-bedded, buff, grey and maroon sandstone; thinly bedded, maroon and green siltstone and black pelite; brown-weathering, possibly tuffaceous semipelite. Numerous fossiliferous and conglomeratic boulders near Indian Bay Big Pond are interpreted to be derived from this unit (comp. O'Neill, 1991a)

O:GIsps

Early to Middle Ordovician. Maroon siltstone (O'Neill and Colman-Sadd, 1993)

O:Glsc

Early to Middle Ordovician. Grey to purple, pebble to cobble conglomerate interbedded with grey sandstone (O'Neill and Colman-Sadd, 1993)

O:Glv

Early to Middle Ordovician. Pillowed mafic volcanic rock (O'Neill, 1991a)

O:Glp

Early to Middle Ordovician. Sub-intrusive, massive quartz monzodiorite porphyry (O'Neill, 1991a)

O:Glsbl

Early to Middle Ordovician. Laminated black pelite, minor thin sandy layers (O'Neill, 1991a)

O:Glsbg

Early to Middle Ordovician. Grey and dark grey psammite, grey-green and laminated black pelite (O'Neill, 1991a)

O:Glsbc

Early to Middle Ordovician. Interbedded black pelite, calc-silicate beds, and thin- to medium-bedded, greyish white to dark-grey psammite (O'Neill and Colman-Sadd, 1993)

Jonathan's Pond Formation

CO:GJm

Early Cambrian to Early Ordovician. Predominantly schistose, coarse grained, sillimanite-bearing metasedimentary rocks, containing minor amounts of unseparated foliated, fine- to coarse- grained and k-feldspar megacrystic granite. (O'Brien et al., 1991)

CO:GJc

Early Cambrian to Early Ordovician. Chlorite-grade metasedimentary rocks; sedimentary hornfels adjacent to the Gander Lake Granite (comp. O'Brien et al., 1991)

CO:GJC

Early Cambrian to Early Ordovician. Cuff Pond pelite: Interbedded graphitic black pelite, dark grey psammite, and white-weathering quartzite (O'Neill and Colman-Sadd, 1993)

CO:GJs	Early Cambrian to Early Ordovician. Predominantly semipelite with interbedded pelite, psammite and concordant amphibolite layers; includes minor quartzite (Blackwood et al., 1984)
CO:GJh	Early Cambrian to Early Ordovician. Thick-bedded, strongly cleaved, cordierite-bearing pelite and semipelite hornfels (Dickson, 2000a)
CO:GJp	Early Cambrian to Early Ordovician. Medium- to thick-bedded, cleaved, grey sandstone and minor, thin-bedded pelite (Dickson, 2000a)
CO:GJqo	Early Cambrian to Early Ordovician. Quartzite, grey psammite, semipelite and pelite; minor mafic and intermediate sills and dykes; calc-silicate layers and lenses; unit contains numerous pegmatitic and granitic sheets associated with the Ocean Pond Granite (comp. O'Neill, 1991a)
CO:GJqv	Early Cambrian to Early Ordovician. Interbedded pelite and psammite containing lenses of amphibolite and green, fine-grained rocks rich in chlorite and epidote; rare pillowed volcanic rocks; volcanogenic rocks constitute about 15-30 percent of the unit (comp. Currie, 1995b)
CO:GJqm	Early Cambrian to Early Ordovician. Predominantly thinly to thickly interbedded psammite, semipelite and pelite; includes quartzite, quartz granule sandstone, quartz arenite, calc-silicate layers or lenses; metamorphosed at high grade and containing migmatite and thin granite sheets; intruded by amphibolite dykes (comp. Currie, 1995b)
CO:GJq	Early Cambrian to Early Ordovician. Fine- to coarse-grained, medium- to thick-bedded, pale grey or buff, quartzitic sandstone and psammite containing thin interbeds of grey pelite and semipelite; includes minor mafic tuff bands, amphibolite and conglomerate. (comp. Dickson, 2000a; comp. Blackwood, 1982b)

CO:GJ

Early Cambrian to Early Ordovician. Predominantly thinly to thickly interbedded psammite, semipelite and pelite; includes quartzite, quartz granule sandstone, quartz arenite, calc-silicate layers or lenses, and is intruded by unseparated mafic sills and dykes (comp. O'Neill and Blackwood, 1989)

CO:mp

Amphibolite and minor interlayered semipelitic and psammitic gneiss and schist; locally with extensive granite sheets (Kean, 1983)

CO:ma

Foliated, fine-grained amphibolite, probably derived from mafic dykes intrusive into the Spruce Brook Formation (Colman-Sadd, 1987)

CO:md

Diabase (Swinden, 1981)

Western Arm Group

CO:Ei

Fine- to coarse-grained, aphyric to porphyritic diabase and gabbro (Kean et al., 1994b)

Western Head Agglomerate

O:EA

Early to Middle Ordovician. Coarse, unbedded, mafic agglomerate with thin lenses of tuff and cherty tuff (Kean et al., 1994b)

Welsh Cove Tuff

O:EW

Early to Middle Ordovician. Silicic crystal tuff, welded tuff; chert and argillite; minor basic and intermediate tuff (Kean et al., 1994b)

Big Hill Basalt

C:EB

Early to Late Cambrian. Dark grey, basaltic pillow lava; minor lenses of chert and argillite (Kean et al., 1994b)

Skeleton Pond Tuff

C:ES

Early to Late Cambrian. Interbedded red, brown, green and black argillite, chert and tuff; pyroxene crystal tuff; grey pillow lava. Contains sulphide and magnetite iron formation at its base (Kean et al., 1994b)

Early Cambrian to Early Ordovician

CO:gn

Migmatitic, interbanded, sillimanite schist, amphibolite and granitic gneiss (Colman-Sadd and Russell, 1988)

Spruce Brook Formation

CO:SmI

Migmatite and biotite psammite intruded by numerous weakly foliated granitoid dykes (Dickson, 1990c)

CO:Sms

Migmatite, rich in biotite schlieren, and metasedimentary and amphibolite fragments; probably derived from quartzitic sandstone, siltstone and shale of the Spruce Brook Formation and equivalent rocks, and mafic dykes; includes unseparated sillimanite schist, granitoids and pegmatitic dykes (comp. Colman-Sadd, 1987; comp. Dickson et al., 1990)

CO:Smw

Well foliated, medium- to coarse-grained, biotite-muscovite migmatite associated with complexly folded, coarse-grained biotite schlieren; contains xenoliths and screens of foliated amphibolite, psammite, and semipelitic and pelitic schist; locally includes domains of non-migmatitic sillimanite schist; cut by muscovite-garnet-tourmaline pegmatite veins (Colman-Sadd and Swinden, 1989)

CO:Smg

Unbanded, biotite-rich granitoid rock, containing quartzitic and amphibolitic inclusions, probably derived from the Spruce Brook Formation. Crystallization is dated at 465 +/- 2 in NTS 2D/5, using U/Pb in monazite (comp. Colman-Sadd, 1985a; Colman-Sadd et al., 1992)

CO:Smn	Banded granitoid gneiss, containing quartzitic and amphibolitic inclusions, probably derived from the Spruce Brook Formation. Migmatization is dated at 465 +/-2 in NTS 2D/5, using U/Pb in monazite (comp. Colman-Sadd, 1985a; Colman-Sadd et al., 1992)
CO:Smm	Migmatite, rich in biotite schlieren and metasedimentary fragments; probably derived from quartzitic sandstone, siltstone and shale of the Spruce Brook Formation. Migmatization is dated at 465 +/-2 in NTS 2D/5, using U/Pb in monazite (comp. Colman-Sadd, 1987; Colman-Sadd et al., 1992)
CO:Ssmg	Semipelitic to psammitic metasediment, paragneiss and schist; minor interlayered quartzite, amphibolite and calc-silicate bands (Kean, 1983)
CO:Ssm	Metasedimentary rocks, paragneiss and amphibolite (comp. Kean, 1982)
CO:Ssg	Micaceous, garnetiferous, gneissic rocks, locally migmatized; tentatively assigned to the Spruce Brook Formation (comp. Swinden, 1988)
CO:Ssp	Garnet-, biotite- and staurolite-bearing pelitic and semipelitic schist, locally containing andalusite; tentatively assigned to the Spruce Brook Formation (Swinden, 1988)
CO:Sss	Grey, biotite-muscovite-garnet, psammitic schist, containing relict quartzite beds in dismembered fold hinges (comp. Colman-Sadd, 1985b)
CO:Sscs	Conglomerate, consisting mainly of fine-grained sandstone clasts (Colman-Sadd and Russell, 1982)
CO:Sscq	Clast-supported, orthoquartzite-cobble conglomerate and minor matrix-supported, slate- and quartzite-pebble breccia and coarse sandstone; minor lapilli tuff (Dickson, 1990c)

CO:Ssl

Thin bedded, grey to black pelite and minor psammite and semipelite (Dickson, 1990c)

CO:Ssba

Medium- to thick-bedded grey quartzitic sandstone, interbedded with thin- to medium-bedded grey siltstone and grey to black shale and schist; metamorphosed in the middle to upper amphibolite facies and in places partially melted (comp. Colman-Sadd, 1987)

CO:Ssbg

Medium- to thick-bedded grey quartzitic sandstone, interbedded with thin- to medium-bedded grey siltstone and grey to black shale and schist; metamorphosed in the greenschist and lower amphibolite facies (comp. Colman-Sadd, 1987)

CO:Ssb

Medium- to thick-bedded grey quartzitic sandstone, interbedded with thin- to medium-bedded grey siltstone and grey to black shale and schist; locally intruded by mafic dykes; metamorphosed in the greenschist or amphibolite facies (comp. Colman-Sadd and Russell, 1988)

Port aux Basques Complex

CO:PBa

Fine- to coarse-grained, locally garnet- and/or clinopyroxene-bearing amphibolite (van Staal et al., 1996b)

CO:PBg

Mainly semipelitic schist with local calcsilicate bands, including garnet-muscovite-biotite schist, muscovite-biotite schist, well bedded metasiltstone, and migmatite; locally gneissic; probably includes unseparated rocks of the Grand Bay Complex and Harbour Le Cou group (comp. Chorlton and Knight, 1983)

CO:PB

Mainly grey to greenish grey quartzose to feldspathic psammite interbedded with thin garnet and kyanite/sillimanite-bearing silvery pelite; numerous tholeiitic amphibolite sills and/or dykes and very rare coticule beds; progressively more migmatitic towards the southeast; includes interleaved Margaree and Kelby Cove orthogneisses and thin Port aux Basques granite sheets (van Staal et al., 1996b)

Skidder basalt

CO:SKt

Trondhemite (Evans et al., 1994a)

CO:SKb

Pillow lava, breccia, massive flows, minor mafic pyroclastic rocks, bedded chert, and unseparated trondhemite (Evans et al., 1994a)

Early to Late Cambrian

C:u

Undivided upper, lower, and middle Cambrian rocks: black shale; pink algal limestone; red, grey and green shale; grey limestone; pink limestone nodules (O'Brien et al., 1977a)

Inlet Group

C:Ih

Hornfelsed equivalents of Ci (Undivided: black and grey shales and siltstones; green siltstone; red shale) (O'Brien et al., 1977a)

C:lc

Red, grey and green shale (Chamberlain's Brook Formation equivalents) (O'Brien et al., 1977a)

C:Ish

Red and green shale; minor pink limestone (Brigus and Smith Point (?) Formation equivalents) (O'Brien et al., 1977a)

C:Ibf

Red and green shale (Bonavista Formation equivalents) (O'Brien et al., 1977a)



Micaceous grey shale and slate; grey siltstone with limestone nodules (O'Brien et al., 1977a)

*Pleasant View
Formation*



Consists of an upper unit of black, rusty weathering, highly fissile shale and dark grey siltstone, the shale containing grey limestone nodules, and a lower unit of light green mudstone and shale, grey limestone and dark grey siltstone, all manganiferous. (Williams et al., 1985)

Salt Pond Formation



It consists of red and green mottled shale, red shale with pink limestone lenses and beds, and minor purple and grey shale transitionally and conformably overlying the Bay View formation (Strong et al., 1978). (Williams et al., 1985)

Bay View Formation



Consists of a lowermost unit of approximately 600 m of purple, red and grey micaceous siltstones and silty sandstones, displaying abundant ripple marks, mud cracks and worm burrows. It is overlain by a ripple-marked grey siltstone unit with several quartzite beds of highly variable thickness. The uppermost unit comprises grey-green siltstone with disc-shaped limestone nodules, and minor red and purple micaceous siltstone (Strong et al., 1978). (Williams et al., 1985)



Undivided: black and grey shales and siltstones; green siltstone; red shale (O'Brien et al., 1977a)

*Youngs Cove Group
Salmonier Cove
Formation*



Late Cambrian. Black shale and minor grey, fine-grained sandstone (O'Brien, 1998)

*Chamberlains Brook
Formation*

mC:YCsm

Middle Cambrian. Green slate; manganiferous grey shale and red, variably manganiferous slate and shale (comp. O'Brien, 1994b; comp. O'Brien, 1998)

mC:YC

Middle Cambrian. Red and green slate containing minor quartzose sandstone beds near the base; minor red and grey shale and grey and pink limestone in the upper part. (O'Brien, 1998)

Random Formation

eC:YRs

Early Cambrian. Fine- to medium-grained, cross-bedded, brown-weathering flaggy sandstone (O'Brien, 1998)

eC:YRq

Early Cambrian. White, cross-bedded orthoquartzite; minor red and grey shale and siltstone (O'Brien, 1998)

eC:YRo

Early Cambrian. White orthoquartzite, quartz sandstone; interbedded micaceous siltstone (O'Brien and Taylor, 1983b)

eC:YR

Early Cambrian. White, mostly cross-bedded quartz arenite; interbeds of grey and green micaceous sandstone; minor red and grey shale and siltstone; fine- to medium-grained, cross-bedded, brown-weathering flaggy sandstone; local basal conglomerate (comp. O'Brien, 1998; comp. King, 1988)

Chapel Island Formation

NC:YHh

Ediacaran to Early Cambrian. Hornfels of siltstone, sandstone and other sedimentary rocks of the Chapel Island Formation (O'Brien, 1998)

NC:YHs

Ediacaran to Early Cambrian. Grey, micaceous siltstone and thin-bedded siliceous sandstone; also contains minor red siltstone, pink quartzitic arkose, grey micaceous sandstone, shale-pebble conglomerate and shale, and rare, grey limestone lenses (O'Brien, 1998)

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Early to Middle Cambrian

Twillingate pluton

C:T

Foliated to mylonitic, grey to pink, medium- to coarse-grained tonalite and trondhjemite; contains lenses and dykes of amphibolite (comp. Williams and Currie, 1995)

Adeyton Group

Brigus Formation

eC:ABn

Early Cambrian. Grey and grey-green shale and slate; red slate with pink limestone nodules (comp. O'Brien, 1994b)

eC:AB

Early Cambrian. Red, pink and green shale or slate, with nodules and thin limestone beds; basal conglomerate where the formation rests directly on Neoproterozoic rocks (comp. King, 1988; comp. Williams et al., 1985)

Smith Point Formation

C:AS

Pink massive limestone containing red shale partings and algal structures (King, 1988)

Bonavista Formation

C:AB

Red, green and purple shale or slate and thin limestone beds and nodules; local quartz-pebble conglomerate at base (comp. King, 1988; comp. O'Driscoll and O'Brien, 1990)

C:un

Undivided Early and Middle Cambrian rocks (comp. O'Driscoll et al., 1995)

Sleepy Cove Group

C:Sd

Pillow lava, and local pillow breccia and massive flows; includes unseparated intrusions of gabbro, diorite and quartz diorite; metamorphism has created chloritic and amphibolitic assemblages in mafic rocks and the unit is deformed and schistose (comp. Williams and Payne, 1975)

C:Sb

Pillow lava, and local pillow breccia and massive flows; silicic and mafic tuff and agglomerate; metamorphism has created chloritic and amphibolitic assemblages in mafic rocks and the unit is deformed and schistose in most places (comp. Williams and Payne, 1975)

Lushs Bight Group

C:Lvbh

Grey to black, locally hematitic, basaltic pillow lava with interpillow and lensoidal red and green chert, and magnetite iron formation; minor bedded tuff (Kean et al., 1994b)

C:Lvba

Basaltic, generally quartz amygdaloidal and locally variolitic pillow lava and massive flows, chlorite schist; unseparated diabase and gabbro; minor intercalated tuff and agglomerate; minor red chert; local sheeted dyke swarms; minor felsic pyroclastic rocks and dykes (Kean et al., 1994b)

C:Lvbt

Intercalated, bedded, mafic tuffs and massive flows (Kean et al., 1994b)

C:Lvbx

Pillow breccia, isolated pillows, agglomerate, tuff and hyaloclastite (Kean et al., 1994b)

C:Lvb

Basaltic pillow lava, minor to extensive, unseparated, massive flows, and diabase and gabbro dykes and sills; minor tuffaceous rocks, pillow breccias and hyaloclastites; chlorite schist (Kean et al., 1994b)

C:Lvby

Basaltic pillow lava with minor to extensive diabase and gabbro dykes; and/or sheeted dykes with common pillow lava screens (Kean et al., 1994b)

C:Liy

Sheeted diabase dykes, locally with pillow screens; felsic dykes locally present (Kean et al., 1994b)

C:Lig

Fine- to medium-grained gabbro and diabase (Kean et al., 1994b)

C:Liu

Peridotite and serpentinite (Kean et al., 1994b)

C:L

Mafic volcanic rocks, principally pillow lavas, and sheeted mafic dykes; lesser amounts of pillow breccia, tuff, agglomerate and chert; small gabbro intrusions and ultramafic bodies (comp. various sources)

Lushs Bight Group?

C:L?

Magnesite, talc-carbonate, actinolite-tremolite (altered ultramafic rock) (Kean et al., 1994b)

Early Cambrian

eC:U

Undivided red and green shale and slate containing pink nodular limestone beds; pink, red and grey algal limestone (comp. O'Driscoll et al., 1995)

Ediacaran or younger

E:gb

Dark-grey fine and medium grained gabbro (unnamed) (comp. O'Brien, 1992b)

E:di

Unnamed gabbro and diabase (O'Brien et al., 1991)

Long Harbour Group

Rencontre Formation

E:LRas

Ediacaran. Red, micaceous siltstone and interbedded, buff-weathering, quartzitic arkose and pebble conglomerate (O'Brien, 1998)

E:LRaas	Ediacaran. Pink, buff-weathering, medium- to coarse-grained, cross-bedded, quartzitic arkose, containing minor amounts of red siltstone (comp. O'Brien, 1998)
E:LRaac	Ediacaran. Red pebble conglomerate (O'Brien, 1998)
E:LRaaq	Ediacaran. Pink, buff-weathering, medium- to coarse-grained, cross-bedded, quartzitic arkose and granule to pebble conglomerate, locally containing red siltstone (O'Brien, 1998)
E:LRr	Ediacaran. Red and grey, thin-bedded siltstone, and fine-grained sandstone and interbedded buff, coarse-grained, cross-bedded, quartzitic arkose; minor bright red shale and green, grey and black siltstone (O'Brien, 1998)
E:LRb	Ediacaran. Grey and black, thin-bedded siltstone; fine-grained, grey sandstone and black shale; rare grey limestone lenses; contains minor red siltstone and sandstone on the north coast of Fortune Bay (O'Brien, 1998)
E:LRs	Ediacaran. Red to purple, medium- to coarse-grained sandstone (O'Brien, 1998)
E:LRcs	Ediacaran. Red and purple, locally micaceous, sandstone, siltstone and conglomerate; minor grey sandstone and siltstone (O'Brien, 1998)
E:LRch	Ediacaran. Grey, massive, thick-bedded, locally micaceous hornfels of sandstone, siltstone and conglomerate (comp. O'Brien, 1998; comp. Dickson, 1987)
E:LRcc	Ediacaran. Purple conglomerate; minor sandstone and siltstone (forms the base of the Rencontre Formation in the northern Fortune Bay area, where it lies conformably on the Mooring Cove Formation and disconformably on the Belle Bay Formation) (O'Brien, 1998)



Ediacaran. Rhyolite (O'Brien et al., 1984a)



Ediacaran. Red, pink and purple conglomerate, sandstone and siltstone; grey and black sandstone, siltstone and shale, minor rhyolite and rare limestone lenses (comp. O'Brien, 1998; comp. O'Brien et al., 1984a)

Mooring Cove Formation



Ediacaran. Purple and red sandstone; grey slate and sandstone (O'Brien, 1998)



Ediacaran. Pink rhyolite flows, fine- to coarse-grained pyroclastic rocks, felsite and ash-flow tuff. (comp. O'Brien, 1998; comp. O'Brien et al., 1984a)



Ediacaran. Green and purple basalt flows, and minor mafic pyroclastic rocks, includes pillowed flows on the islands south of Brunette Island; dark green to purple amygdaloidal basalt, mafic sills. (comp. O'Brien, 1998; comp. O'Brien et al., 1984a)



Ediacaran. Dark green to purple amygdaloidal basalt (O'Brien, 1998)



Ediacaran. Mainly green and purple basalt flows, and minor mafic pyroclastic rocks, locally containing unseparated tuffaceous sedimentary rocks; includes unseparated pillowed flows on the islands south of Brunette Island (O'Brien, 1998)



Ediacaran. Predominantly red, purple, and pink rhyolite and ash flow tuffs with interbedded mafic flows, tuffs and metabasic sills with associated purple to grey sedimentary rocks. (comp. O'Driscoll et al., 1995; comp. O'Brien, 1998)

Andersons Cove Formation

E:LAvm	Mafic sills and flows (O'Brien et al., 1984a)
E:LAv	Mafic flows and sills and minor rhyolite (comp. O'Brien et al., 1984a)
E:LAss	Ediacaran. Grey slate, siltstone and sandstone (O'Brien, 1998)
E:LAssb	Ediacaran. Black slate (O'Brien et al., 1984a)
E:LAsd	Ediacaran. Mature sandstone (O'Brien et al., 1984a)
E:LAsdr	Ediacaran. Red sandstone (O'Brien et al., 1984a)
E:LAsc	Ediacaran. Purple tuffaceous sandstone, pebble conglomerate and agglomerate at base (O'Brien, 1998)
E:LAsc b	Ediacaran. Cobble and boulder conglomerate (comp. O'Brien et al., 1984a)
E:LA	Finely laminated, grey, wavy-bedded argillite, grey siltstone and sandstone with local basal beds of red and purple boulder conglomerate and sandstone in the type section. On the Burin Peninsula green and grey siltstone and sandstone predominate; red sandstones also occur in the upper levels. (comp. Williams et al., 1985)
<i>Belle Bay Formation</i>	
E:LBd	Ediacaran. Mainly variably deformed and metamorphosed acid and basic volcanic rocks; minor sedimentary rocks. (comp. Dickson, 1983)
E:LBh	Ediacaran. Hornfels of sedimentary and/or volcanic rocks (O'Brien, 1998)

E:LBs	Ediacaran. Pebble conglomerate, sandstone and argillite (O'Brien, 1998)
E:LBvm	Ediacaran. Purple to green and black basalt and andesite (O'Brien, 1998)
E:LBvf	Ediacaran. Pink to purple, massive, banded and autobrecciated rhyolite, and locally, unseparated grey to green, mafic tuffs and agglomerate; minor unseparated basalt flows in the lower part of the formation (comp. O'Brien, 1998; comp. Dickson, 1987)
<i>English Harbour East Formation</i>	
E:LEe	Dominantly epiclastic breccias of widely variable grain size; fine grained tuffs and epiclastic sediments (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)
E:LEs	Red, green and yellow volcanogenic mudstone, sandstone and conglomerate (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)
E:LEm	Mafic breccias and volcanoclastics (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)
E:LEa	Ash-flow tuff, tuff breccia, agglomerate and "acid-basic" breccia (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)
E:LEf	Rhyolite flows and agglomerate ash-flow tuff (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)
E:LEc	Coarse grained, epiclastic breccia, ash-flow tuff (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)
E:LEr	Red ash-flow tuff (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)



Basalt (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)



Ash-flow tuff and epiclastics (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)



Red and pink ash-flow tuff and tuff breccia with minor epiclastic sedimentary rocks (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)



Dominantly pyroclastic and epiclastic volcanic rocks (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)

Snooks Tolt Formation



Variably welded ash-flow tuff and associated tuff breccia, agglomerate and other volcanic breccias; rhyolite flows (O'Brien et al., 1984a)



Vesicular and massive mafic flows and breccias; diabase (O'Brien et al., 1984a)

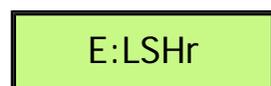


Waterlain tuff and associated epiclastic sediments (O'Brien et al., 1984a)



Welded, ash-flow tuff and associated tuffs, breccias and agglomerates; vesicular and massive mafic flows; waterlain tuffs and epiclastic sediments (O'Driscoll et al., 1995)

Southern Hills Formation



Rhyolite flows variably welded ash-flow tuffs, breccias and agglomerates. (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)



Epiclastic volcanic and clastic sedimentary rocks. (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)

E:LSHm

Mafic flows and sills. (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)

E:LSHt

Dark-grey tuffs and associated epiclastic rocks ()

E:LSH

Welded and unwelded ash-flow tuffs; rhyolite flows, tuffs, breccias and agglomerates; epiclastic volcanic and clastic sedimentary rocks; mafic flows and sills; dark-grey tuffs and associated epiclastic rocks (O'Driscoll et al., 1995)

Grand Le Pierre Formation

E:LG

Gray and green, massive and porphyritic rhyolite flows, ash-flow tuff and associated volcanic breccias; minor waterlain tuff (comp. O'Brien et al., 1984a; comp. O'Driscoll et al., 1995)

E:p

Pink to buff, medium grained biotite granodiorite (comp. O'Brien, 1986)

Unnamed Diabase and Gabbro Dikes

E:Db

Brown, dark green and black, mostly aphanitic diabase (O'Brien, 1986)

E:D

Black, aphanitic to medium grained, aphyric to porphyritic (Strong et al., 1978a)

Musgravetown Group

*Undivided
Sedimentary rocks*

E:Uusc

Undivided conglomerate from either of Jigging Cove, Wild Cove or Deadmans Cove Formations (comp. Strong et al., 1978a)

E:Uus

Sedimentary rocks. (King, 1988)

Wild Cove Formation



Poorly sorted to imbricated conglomerate and crossbedded sandstone (Strong et al., 1978a)

Jigging Cove Formation



Monotonous shale and laminated siliceous siltstone, recrystallized dolomitic limestone beds and breccias, grey sandstone, quartz pebble conglomerate (Strong et al., 1978a)

Deadmans Cove Formation



Well sorted cross-bedded grey sandstone, siltstone, conglomerate (Strong et al., 1978a)

Crown Hill Formation



Mafic and felsic volcanic breccia and associated aquagene tuff (O'Brien et al., 1991)



Mainly red sandstone, conglomerate, siltstone and shale (Blackwood et al., 1984)



Red pebble conglomerate and sandstone; locally, red siltstone at base; minor green conglomerate (King, 1988)



Red, purple and maroon siltstone and fine- to coarse-grained red sandstone, and more rarely, pebble conglomerate (comp. O'Brien, 1994b)



Planar-bedded and cross-bedded red and maroon sandstone; minor shale and pebble conglomerate (O'Brien et al., 1991)



Minor buff and green siltstones and pale green, siliceous sandstone (comp. O'Brien, 1994b)

E:UCsc	Grey, green, and locally pale red, cobble- to fine-grained boulder conglomerate; grey, feldspar-rich, pebbly sandstone and variegated volcanogenic granule conglomerate (O'Brien, 1994b)
E:UCsg	Green sandstone (O'Brien et al., 1987)
E:UCs	Mainly red and locally variegated sandstone containing thin beds of granule conglomerate and quartzose sandstone. (O'Brien et al., 1987)
E:UCrs	Red sand green sandstone and siltstone (O'Brien et al., 1987)
E:UCrq	Red pebble conglomerate with minor red sandstone; rare quartz pebble conglomerate and pink quartz arenite (O'Brien, 1994b)
E:UCrb	Red boulder to pebble conglomerate (O'Brien et al., 1987)
E:UCr	Red sandstone and granule conglomerate (O'Brien et al., 1987)
E:UC	At the type locality, the formation consists of bright red siltstone, dull red arkose, and distinctive red conglomerate containing pea-size to walnut-size pebbles of red rhyolite, argillite, basic lava, and quartz. East of Ackmans Harbour, greenish-grey sandstones also occur. In the Kings Cove-Keels (NTS2C/11) region, the formation consists predominantly of red sandstone with minor conglomerate. (Williams et al., 1985)
<i>Rocky Harbour Formation</i>	
E:URsxy	Yellowish-green, crossbedded, lithic sandstone (comp. King, 1988)

E:URsx	Unseparated grey and green thin bedded and cross-bedded , +/- rippled sandstone and phyllite; quartz arenite; red monomict sedimentary breccias; unseparated mafic flows and dykes and minor felsic tuff, includes some pebble to boulder conglomerate . (comp. O'Brien and King, 2002; comp. O'Brien et al., 1991)
E:URsxc	Red pebble to boulder conglomerate (O'Driscoll and O'Brien, 1990)
E:URsxl	Parallel laminated and cross-bedded green-grey siltstone, sandstone and minor conglomerate scours, with cherty and vitric tuff interbeds; minor unseparated rhyolite flows; hornfels (O'Brien, 1986)
E:URsa	Green sandstone with thin monolithic aquagene mafic breccia near top. (O'Brien et al., 1987)
E:URsw	Green, wispy laminated, wispy bedded and planar stratified sandstone; minor green sandstone and pebble conglomerate (O'Brien et al., 1987)
E:URsxlh	Hornfels (O'Brien, 1986)
E:URsp	Pebbly sandstone, arkosic sandstone, red monomict breccia, quartzose sandstone (comp. O'Brien and Taylor, 1983b)
E:URs	Massive to well bedded, medium to coarse grained sandstone, pebbly sandstone and siltstone; minor conglomerate and laminated argillite; may have minor limestone beds (comp. O'Brien and Taylor, 1983a; comp. O'Driscoll and O'Brien, 1990)
E:URst	Laminated siltstone and shale; sandstone; grey argillite and conglomerate (comp. O'Brien and Taylor, 1983a)

E:URsh	Black pyritiferous shale, and slate (locally graphitic), grey and black flaggy siltstone, sandstone-shale breccia and conglomerate; poly lithic breccia and conglomerate with black shaley matrix. (O'Brien and Taylor, 1983a)
E:URg	Mainly gray green coarse to fine grained graywacke, conglomerate, siltstone and tuff (Blackwood et al., 1984)
E:URh	Highly cleaved green sandstone and hornfels (O'Brien et al., 1991)
E:URb	Basalt, mafic tuff and associated metabasic rocks (O'Brien et al., 1991)
E:URr	Rhyolite flows and sill (O'Brien et al., 1987)
E:URd	Diabase (O'Brien et al., 1987)
E:URm	Mafic agglomerate and tuff; green to purple basaltic flows; interbedded limestone; minor pillow basalt. (comp. O'Brien and Taylor, 1983a; comp. O'Driscoll and O'Brien, 1990)
E:UR	Green, gray and red, fine to coarse grained sandstone, conglomerate, siltstone and shale, with minor mafic and felsic intrusive and volcanic rocks. (comp. Blackwood et al., 1984)
<i>Upper Rocky Harbour Formation</i>	
E:UUc	Cape Bonavista Facies: Openly folded succession of well-banded and thickly bedded, olive green, buff-yellow-weathering sandstones having ubiquitous well-developed, large-scale crossbeds. Instances of green sandstones having a distinctively mottled pale-pink to pale-green surface coloration. (O'Brien and King, 2002)

Trinny Cove Formation

E:UT

Olive-green and red sandstone, siltstone and conglomerate; minor gray shale containing wispy sandstone laminae (King, 1988)

Heart's Desire Formation

E:UHD

Olive-green sandstone (King, 1988)

Heart's Content Formation

E:UHC

Gray to black shale containing wispy sandstone laminae (King, 1988)

Maturin Ponds Formation

E:UM

Red sandstone and mudstone exhibiting distinctive wavy bedding; minor conglomerate (King, 1988)

Big Head Formation

E:UBHc

Gray to red arkose and granule conglomerate (King, 1988)

E:UBHs

Wavy bedded, gray to green tuffaceous siltstone and arkose; locally includes Whiteway Member consisting of red sandstone and siltstone (King, 1988)

E:UBHm

Gray to green volcanogenic mixtite (King, 1988)

Bull Arm Formation

E:UBd

Equigranular diorite and gabbro plugs, dykes and sills (O'Brien et al., 1987)

E:UBgh

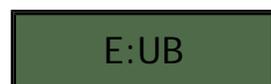
Equigranular hornblende - biotite granodiorite and granite (O'Brien et al., 1987)

E:UBsrcb	Red to maroon, boulder and pebble conglomerate (comp. O'Brien, 1986)
E:UBsr	Red and maroon, granule and pebble conglomerate; red sandstone at base (O'Brien et al., 1987)
E:UBsgc	Pale-green cobble and boulder conglomerate; minor green and grey sandstone; rare red sandstone (comp. O'Brien, 1986)
E:UBsg	Green sandstone (O'Brien et al., 1987)
E:UBvfr	Mainly moderately strained, red, maroon, and pink felsic volcanic rocks; parataxically banded rhyolite and ash-flow tuff; minor unseparated tuffaceous sedimentary rocks (O'Brien et al., 1991; comp. O'Brien, 1986)
E:UBvfr	Red, flow banded rhyolite containing rhyolite breccia at base and top (O'Brien et al., 1987)
E:UBvfp	Silicic pyroclastic rocks; rhyolite porphyry (comp. O'Driscoll and O'Brien, 1990; comp. O'Brien et al., 1987)
E:UBvf	Felsic volcanics, including rhyolite and ash flow tuffs along with minor unseparated tuffaceous sedimentary rocks (comp. O'Brien et al., 1991)
E:UBiba	Amygdaloidal basalt ()
E:UBia	Mafic agglomerate and volcanic breccia; minor unseparated gabbro sills (O'Brien et al., 1987)
E:UBit	Green and grey tuffaceous sandstone and conglomerate (O'Brien et al., 1987)

E:UBib	Basalt (O'Brien et al., 1987)
E:UBi	Interbedded green sandstone and basalt (O'Brien et al., 1987)
E:UBvmt	Red and maroon, massive to finely-banded aphyric and feldsparphyric, rheomorphic ash flow tuff; fine-grained pyroclastic flows and welded breccia; minor massive to banded lava flows and autobreccia; minor variegated, volcanogenic sandstone (O'Brien, 1994b)
E:UBvmf	Grey-green vesicular to aphyric basalt flows; minor mafic breccia and unseparated sedimentary rocks (O'Brien, 1994b)
E:UBvm	Massive to vesicular mafic flows, aquagene tuffs, agglomerate and related mafic breccia; mafic dykes (comp. O'Driscoll and O'Brien, 1990)
E:UBvv	Mafic to felsic variegated flows, and pyroclastic and clastic sedimentary rocks (comp. King, 1988)
E:UBvt	Predominantly crystal and lithic tuffs, commonly reworked ()
E:UBvb	Green, purple and red, vesicular to massive, basaltic flows, tuffs, breccias and agglomerates; grey, green and purple plagioclase porphyry (O'Driscoll et al., 1995)
E:UBvmf	Mafic flows; includes minor felsic flows and clastic sedimentary rocks (comp. King, 1988)
E:UBvmbv	Vesicular basalt and minor mafic tuff and breccia, includes minor chlorite schist (O'Brien et al., 1987; comp. O'Brien et al., 1991)



Basalt, mafic tuff and minor chlorite schist (comp. O'Brien et al., 1991)



Mafic and felsic flows, breccias, pyroclastic rocks, tuffaceous arkose, red and green arkose, siltstone, and conglomerate (Williams et al., 1985)

Cannings Cove Formation



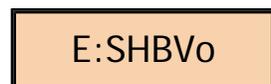
Red and green boulder, cobble and pebble conglomerate; minor red slate and siltstone. Locally unconformable on Connecting Point Group (Hill and Kirby, 1984)



Thick succession of red and green fine- to coarse-grained sedimentary rocks and interbedded silicic and mafic volcanic rocks. There are sequences of dark grey sandstones, mudstones, and shales in Placentia bay. (Williams et al., 1985; comp. O'Brien and King, 2005)

Signal Hill Group

Bay de Verde Formation



Old Perlican Member: Red and gray, white-weathering sandstone; siltstone and red mudstone (King, 1988)



Baccalieu Member: Red pebble to cobble conglomerate and sandstone; minor mudstone (King, 1988)



Cooks Cove Member: Green to gray sandstone and interbedded siltstone (King, 1988)



Grates Cove Member: Green siltstone and sandstone (King, 1988)

Flat Rock Cove Formation



Piccos Brook Member: Locally derived breccia and red muddy sandstone (King, 1988)

Blackhead Formation

Maddox Cove Member: Red mudstone and sandstone exhibiting distinctive wavy bedding (King, 1988)



Mainly red or greenish grey arkosic sandstone, with shale and siltstone interbeds. Arenaceous beds predominate, but there is a greater percentage of argillaceous beds than in the underlying rocks of the Signal Hill Group. (comp. Williams et al., 1985; comp. King, 1988)

Cape Ballard Formation

Gray shale and siltstone, minor purple shale (King, 1988)



Thickly bedded gray sandstone and quartz-granule conglomerate (King, 1988)

Ferryland Head Formation

Thin to medium bedded, gray sandstone; minor conglomerate (comp. King, 1988)



High Rocks Member: Red, wavy bedded sandstone and shale (King, 1988)

Cuckold Formation

Greyish-red granule to cobble conglomerate with interbedded red and green sandstone and mudstone. The clasts are dominantly felsic volcanic with minor mafic volcanic fragments, quartz, granite, and clastic sedimentary rocks; they decrease in size southward (King, 1982, Figure 1.1). Cross-bedded sandstones indicate a paleoflow to the south-southwest. The Cape Spear Member, a coarse conglomerate in the middle of the formation, contains abundant cobbles of metaquartzite, quartz-sericite schist, and detrital garnet and muscovite, indicating a possible sialic basement source. (Williams et al., 1985)

Quidi Vidi Formation



Red and green sandstone; minor pebble conglomerate and mudstone (comp. King, 1988)

Gibbett Hill Formation



Minor red sandstone and siltstone (King, 1988)



Thickly bedded, light-gray sandstone; locally thinly bedded, greenish-gray to red sandstone, siltstone, tuff and conglomerate (King et al., 1988)

Cappahayden Formation



Laminated gray siltstone (King, 1988)

St. John's Group

*Renews Head
Formation*



Thin, lenticular bedded, dark-gray sandstone and minor shale (King, 1988)

Fermeuse Formation



Gray to black shale containing thin lenses of buff-weathering sandstone and siltstone; mainly light-gray, thinly bedded, contorted shale and sandstone near base (King, 1988)

Trepassey formation



Moderate to thinly bedded, graded grey sandstone, fining-upwards tuffaceous siltstone and shale. The formation is locally coarser and more thickly bedded at the base. The beds, from 10 to 30 cm thick, have sandy bases and shaly tops. (comp. Williams et al., 1985; comp. King, 1988)

Whalesback Gabbro



Fine- to coarse-grained massive (pyroxene-plagioclase) gabbro. (comp. King, 1988)

Conception Group

*Mistaken Point
Formation*

Red and green tuffaceous siltstone and sandstone; medium bedded, gray to pink sandstone and green to purple and red shale; minor thin tuff horizons; fossiliferous. (comp. King, 1988; comp. O'Brien et al., 2006)

Briscal Formation

Thickly bedded, coarse grained, gray sandstone, olive to gray argillite, red arkosic sandstone; local units of thinly bedded gray siltstone and shale (King, 1988)

Drook Formation

Clam Cove Member: Gray, pebbly siltstone and shale. (comp. King, 1988)



Peter's River Member: Gray, coarse grained sandstone (King, 1988)



Biscay Member: Altered green to purple basalt, locally pillowed (King, 1988)



Cape English Member: Gray to pale-red, thickly bedded sandstone (King, 1988)



Torbay Member: Red and green, medium to coarse grained, parallel-laminated sandstone, associated with mixtite (King, 1988)



Bauline Line Member: Volcanogenic mixtite (possible northern equivalent of Gaskiers Formation) (King, 1988)

E:CD

Green, grey, buff and, locally, red to purple, argillaceous chert weathered white, siliceous siltstone, sandstone, silicified tuff, locally thick sandstone with shale, siltstone, and minor purple argillite. The formation contains intercalated grey coarse grained sandstone grey to red sandstone, grey pebbly siltstone and shale, and mafic pillow lava. (Williams et al., 1985) O'Brien et al., 2006)

Gaskiers Formation

E:CGt

Gray mixtite (tillite); red mixtite overlain by red mudstone at top (King, 1988)

Mall Bay Formation

E:CMB

Green siliceous siltstone, argillite and tuff; thickly bedded quartzose sandstone (King, 1988)

Connecting Point Group

E:CPsx

Grey to black, regular-bedded, graded and cross-bedded sandstone and interbedded shale; thick-bedded sandstone and interrippled sandstone and shale; numerous mafic dykes and sills (comp. O'Driscoll et al., 1995)

E:CPc

Grey and green, interbedded, granule, cobble and boulder conglomerate and sandstone (O'Brien, 1992b)

E:CPssm

Mafic tuff and tuff-breccia (O'Brien, 1994b)

E:CPss

Thin- and regularly-bedded dark grey siltstone and fine grained sandstone, containing thin black silty laminae, cross laminae and ripple-drift structures; minor red and purple siltstone and coarse grained grey sandstone (O'Brien, 1994b)

E:CPsp

Grey-green to buff, thin bedded sandstone, siltstone and shale containing units of massive pebbly sandstone and black shale. (O'Brien et al., 1987)

E:CPsg	Green arenaceous sandstone and minor granule conglomerate, grey and green siltstone (comp. O'Brien, 1992b)
E:CPsd	Diorite and diabase sills (O'Brien, 1994b)
E:CPsc	Grey to pale pink sandstone and granule conglomerate (O'Brien, 1994b)
E:CPsy	Grey and black phyllite, shale (O'Brien, 1992b)
E:CPsf	Fine to medium grained felsic tuff bed (comp. O'Brien, 1986)
E:CPs	Grey-green to buff weathering, medium- to thin bedded silicified fine to medium grained sandstone with unseparated, thick beds of buff amalgamated sandstone; minor dark grey thin-bedded siltstone; thin bedded yellow-brown silicious argillite; thin to medium bedded, fine grained, rippled green sandstone; chert, tuff and tuffaceous sandstone (comp. O'Brien, 1994b)
E:CPhI	Planar stratified and slumped sandstone. (comp. O'Brien et al., 1987; comp. O'Brien, 1986)
E:CPhq	Grey to brown and buff quartzose sandstone and granule to pebble conglomerate (O'Brien, 1986)
E:CPhs	Black shale with thin and thick bedded grey and brown sandstone (O'Brien, 1986)
E:CPh	Thin bedded black shale and slate, thin bedded sandstone and siltstone with thin lenticular beds and laminae of grey and locally brown sandstone. Thick units of sandstone. (comp. O'Brien et al., 1987; comp. O'Brien, 1986)

E:CPm	Mixtite containing pebble and block sized lithoclasts of sedimentary rocks together with mafic and felsic volcanic and plutonic detritus. (O'Brien et al., 1987)
E:CPT	Thick bedded, thin bedded and amalgamated turbidite sandstone containing minor thin bedded, green-grey sandstone and shale. (O'Brien et al., 1987)
E:CPI	Thin and planar bedded to laminated black shale and black argillite with thin planar interbeds of grey sandstone; minor convoluted black shale and black shale with thin discontinuous grey sandstone beds and laminae. (O'Brien, 1986)
E:CPvr	Rhyolitic tuff (O'Brien, 1986)
E:CPv	Black shale; black shale with vitric tuff laminae; buff lithic/crystal and crystal tuff; grey tuffaceous sandstone; grey cherty argillite, hornfels; grey in places cyclically bedded thick and thin bedded graded sandstone with thin shale interbeds; pebbly sandstone, conglomerate. (O'Brien, 1986)
E:CP	A thick sequence of grey, green, or black fined sediments, principally shales, slates, argillites, and greywackes with minor conglomerate bands; numerous mafic dikes and sills (comp. Williams et al., 1985; comp. King, 1988)
E:h	Equigranular, hornblende-biotite granite. (comp. O'Brien, 1992b)

Ediacaran to Late Devonian

Louil Hills Intrusive Suite

N-D:LG	Louil Hills Granite: Pink to buff, fine to medium grained, equigranular granite (comp. O'Brien, 1986)
N-D:Lmh	Fine and medium grained, green and black equigranular gabbro and diorite with rafts of hornfels (O'Brien, 1986)

N-D:Lm

Fine to medium grained, green and black equigranular gabbro; diorite and minor diabase and quartz diorite; agmatite and related hybrid rocks (O'Brien, 1986)

N-D:Lp

Medium to coarse grained plagioclase porphyry (O'Brien, 1986)

Ediacaran to Middle Ordovician

Humber Arm Allochthon (intermediate structural slices)

Blow Me Down

Brook Formation

eC:IBs

Early Cambrian. Grey to pink and red arkosic sandstone, conglomerate, red and grey argillite (comp. Williams and Cawood, 1989)

eC:IBw

Early Cambrian. Woods Island Member: Red and green agglomerate and pillow lava (Williams, 1973)

eC:IB

Early Cambrian. Grey to pink and red arkosic sandstone, conglomerate, red and grey argillite, local red and green volcanic breccia and pillow lava at base (Williams and Cawood, 1989)

Blow Me Down Brook Formation?

eC:IB?

Early Cambrian. Conglomerate, sandstone and minor volcanic (Knight and Boyce, 2002)

Fox Island Group

E:IF

Ediacaran. Black, green, purple and red pillow lava, pink trachyte, interlayered volcanic breccia, minor red siltstone, sandstone and limestone; volcanic rocks are of alkalic affinity (Williams and Cawood, 1989)

Skinner Cove Formation

E:IS

Ediacaran. Well-bedded agglomerate and tuff, unaltered black to dark grey pillow lava, porphyritic (feldspar) pink trachyte, minor red siltstone, sandstone and limestone; volcanic rocks are of alkalic affinity (comp. Williams, 1973; comp. Williams et al., 1985)

Crouchers formation

E:IC

Ediacaran. Green and red pillow lava, pillow breccia and fragmental volcanic rocks, massive lava, minor diabase, red and grey shale and limestone (Williams et al., 1984)

Melange

Companion Melange

mO:Imc

Middle Ordovician. Grey to black scaly shale melange with mainly sedimentary blocks of intermediate and low structural slices of Taconian allochthons (Williams and Cawood, 1989)

mO:Im

Middle Ordovician. Grey to black scaly shale melange with mainly sedimentary blocks of intermediate and low structural slices of Taconian allochthons (comp. Williams and Cawood, 1989)

Ediacaran*Lady Slipper Pluton*

E:LD

Intensely lineated tonalitic to granodioritic gneiss containing varying proportions of interbanded amphibolite (comp. Cawood and van Gool, 1998)

E:q

Equigranular, medium-grained, chlorite granite, intruded by mafic dykes (Colman-Sadd, 1987)

E:m

Medium- to coarse-grained diorite (Evans et al., 1994c)

*Valentine Lake Quartz
Monzonite*



Quartz-porphyrific quartz monzonite, granodiorite and quartz diorite (Kean, 1982)



Pyroxenite (Kean, 1982)



Diorite and gabbro (Kean, 1982)



Quartz-porphyrific quartz monzonite, granodiorite and quartz diorite; lesser amounts of diorite and gabbro; minor pyroxenite (comp. Kean, 1982)

Lemotte's Lake granite



Pink, medium-grained granite with minor mafic phases and xenoliths (Kean and Mercer, 1981)

*Crippleback Lake
Quartz Monzonite*



Medium- to coarse-grained, locally porphyritic, quartz monzonite and granodiorite (Evans et al., 1994a)



Medium- to coarse-grained gabbro and diorite (Evans et al., 1994a)

Grole Intrusive Suite



Unseparated black and dark green to grey, medium- to coarse-grained gabbro and grey, medium-grained, locally banded, quartz diorite and diorite; minor granodiorite and pink granite, the latter occurring mainly as net veins (O'Brien, 1998)



Dark grey, green, black, and black and white, medium- to coarse-grained and pegmatitic gabbro (O'Brien, 1998)

Hardy's Cove granite



Grey to green, medium-grained diorite (O'Brien, 1998)



Buff to grey granodiorite and minor unseparated felsite (O'Brien, 1998)



Pink to orange, medium-grained, equigranular granite (O'Brien, 1998)

Harbour Breton Granite



Taylor Bay stock: Fine-grained, plagiophyric monzogranite (O'Brien, 1998)



Taylor Bay stock: K-feldspar porphyritic hornblende granite (O'Brien, 1998)



Taylor Bay stock: Pink, medium- to coarse-grained, mainly equigranular, biotite granite (O'Brien, 1998)



Jerseymans Harbour and Northeast Arm bodies: Pink to red, medium- to coarse-grained, porphyritic hornblende-biotite granite (O'Brien, 1998)

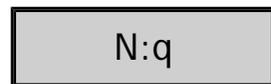


Jerseymans Harbour and Northeast Arm bodies: Pink, medium- to coarse-grained, mainly equigranular, biotite granite (O'Brien, 1998)

Neoproterozoic or younger



Undivided late Proterozoic intrusives (O'Brien et al., 1977a)



Mainly quartz-rich sandstone. (Blackwood et al., 1984)

Mount Margaret Gabbro



Coarse grained black and dark green, coarse-grained feldspar-phyric clinopyroxene gabbro (comp. Strong et al., 1978b; comp. O'Driscoll et al., 1995)

Deep Water Point Granodiorite

N:Dg

Fine to medium grained, massive and foliated equigranular hornblende +/- biotite granodiorite and granite; minor granophyre; minor unseparated hornblende gabbro; porphyritic felsic and aplitic dikes (comp. O'Brien and Taylor, 1983b)

N:Dy

Quartz-feldspar porphyry, fine grained granophyre and felsite, fine grained equigranular granite (comp. O'Brien and Taylor, 1983b)

N:Dp

Fine grained porphyritic, alaskitic granite, medium grained equigranular hornblende granite, minor hornblende gabbro (comp. O'Brien and Taylor, 1983b)

N:Dq

Quartz porphyritic granite (comp. O'Brien and Taylor, 1983b)

N:Dm

Massive and foliated, fine grained, plagioclase +/- pyroxene porphyritic mafic sills, dikes and plugs (comp. O'Brien and Taylor, 1983b)

N:D

Pink, buff or grey, medium-grained hornblende-biotite granodiorite to granite, minor aplite (comp. O'Driscoll et al., 1995; comp. O'Brien et al., 1984a)

Cape Roger Mountain Granite

N:Rgd

Pink, equigranular, medium grained, hornblende-biotite granodiorite and adamellite; minor alkali granite (O'Brien et al., 1984a)

N:Rgr

Pink, equigranular, medium grained granite and adamellite (O'Brien et al., 1984a)

N:Rgm

Pink, equigranular microgranite and aplite (O'Brien et al., 1984a)



Medium grained, equigranular gabbro and diorite (O'Brien et al., 1984a)



Fine- to medium-grained, foliated, hornblende - biotite granite and granodiorite; minor gabbro, aplite and diabase (O'Driscoll et al., 1995)

Swift Current Intrusive Suite

Swift Current Granite



Massive to foliated, pink to gray, medium grained biotite hornblende granite: minor mafic phases. (Blackwood et al., 1984)

Swift Current Gabbro



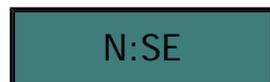
Black to green medium grained diorite and gabbro. (O'Driscoll et al., 1995)

Loughlins Hill Gabbro



Coarse to medium grained black to green hornblende gabbro (O'Driscoll et al., 1995; comp. O'Brien et al., 1977a)

Seal Cove Gabbro



Coarse to medium grained black to green hornblende gabbro (O'Driscoll et al., 1995; comp. Strong et al., 1978a)

Anchor Drogue granodiorite



Pink to grey medium grained, equigranular, hornblende - biotite granodiorite, quartz diorite to diorte. (comp. Strong et al., 1978a)

Marystown Group

N:Mf

Hornfelsed equivalents of predominantly volcanics. Includes: rhyolitic to rhyodacitic flows, pyroclastics and epiclastics, mafic flows, tuffs, tuffs and breccias, felsic agglomerates and related lahars, rhyolite porphyry, greywacke and associated volcanogenic sediments, red sandstone and conglomerate (comp. O'Brien et al., 1977a)

Harbour My God Point Formation

N:MHMGm

Mafic volcanic breccia and conglomerate; red volcanogenic sandstone; welded tuff (O'Brien and Taylor, 1983b; comp. O'Driscoll et al., 1995)

N:MHMGb

Very coarse grained heterolithic volcanic breccia; minor rhyolitic monolithic breccia (O'Brien and Taylor, 1983b; comp. O'Driscoll et al., 1995)

N:MHMG

Xenolithic quartz-feldspar porphyry, mafic and felsic volcanic breccias, conglomerate, and sandstone, and welded tuff. (comp. O'Brien and Taylor, 1983b)

Garnish Formation

N:MG

Augite-rich basalt flows, mafic tuff, red sandstone and red conglomerate (undivided) (Strong et al., 1978a)

Cashel Lookout Formation

N:MCLt

Strongly welded ash flow tuff and associated tuff breccia (O'Brien and Taylor, 1983b)

N:MCLfr

Flow-banded rhyolite (and/or ignimbrite) (Strong et al., 1978a)

N:MCLfrp

Rhyolite porphyry; includes some unseparated felsic volcanic rocks (O'Brien and Taylor, 1983a)

N:MCLfp

Undivided acidic pyroclastics (comp. Strong et al., 1978a)

 N:MCLf	Predominantly felsic flows and tuff; minor mafic pyroclastics; minor volcanoclastics; sericite schist (O'Brien and Taylor, 1983b)
 N:MCLmt	Predominantly fine to coarse grained mafic tuff and associated pyroclastics; minor mafic flows; chlorite schist (O'Brien and Taylor, 1983b)
 N:MCLm	Predominantly mafic flows; includes some mafic pyroclastics; minor volcanoclastic lenses; chlorite schist (O'Brien and Taylor, 1983b)
 N:MCLs	Volcanoclastic sediments (Strong et al., 1978a)
 N:MCL	Undifferentiated welded to non-welded felsic and intermediate tuff, monolithic and heterolithic volcanic breccia, epiclastic volcanic rocks, flow-banded rhyolite, volcanoclastic sediments, minor mafic flows and pyroclastic rocks. (comp. O'Brien and Taylor, 1983b; comp. Strong et al., 1978a)
 <i>Creston Formation</i>	
 N:MCRb	Subaerial alkali basalt flows (Strong et al., 1978a)
 N:MCRa	Acidic pyroclastics and sediments (Strong et al., 1978a)
 <i>Grand Bank Sequence</i>	
 N:MGBb	Felsic crystal-vitric tuffs, mafic lithic tuffs and agglomerate, felsic agglomerate, red tuffaceous sandstone; (O'Brien et al., 1977a)
 N:MGBc	Crossbedded red sandstone and siltstone, minor conglomerate (O'Brien et al., 1977a)

Calmer Formation



Amygdaloidal basalts, mafic agglomerates, mafic lithic tuffs, fluvial red sandstones and conglomerates (O'Brien et al., 1977a)

Hare Hills Tuff



Ash flow tuffs, rhyolite flows, vitrophyres, rhyolitic agglomerates, autoclastic and epiclastic volcanic breccias (O'Brien et al., 1977a)

Unnamed Breccia



Felsic to intermediate (?) agglomerates and lithic tuffs; volcanoclastic breccias (O'Brien et al., 1977a)



Quartzite bearing sandstone and conglomerate; (O'Brien et al., 1977a)

Lamaline Basalts



Hematite-rich vesicular basalts; basaltic to dacitic (?) lithic tuffs; minor felsic pyroclastic rocks (O'Brien et al., 1977a)

Barasway Formation



Vent agglomerate (Strong et al., 1978a)



Red sandstone (Strong et al., 1978a)



Lithic tuff, volcanic breccia (Strong et al., 1978a)



Basalt (Strong et al., 1978a)



Spherulitic rhyolite (Strong et al., 1978a)

N:MBi

Ignimbrite (Strong et al., 1978a)

Taylor's Bay Formation

N:MTBb

Porphyritic basalt, felsic lithic tuffs, oxidized mafic flows, red tuffaceous sediments; (O'Brien et al., 1977a)

N:MTBf

Felsic agglomerates, waterlain lithic tuffs, minor mafic (O'Brien et al., 1977a)

N:MTBa

Felsic agglomerates and lithic tuffs; (O'Brien et al., 1977a)

N:MTBv

Dominantly red porphyritic vitrophyre, undivided felsic lithic tuffs (O'Brien et al., 1977a)

N:MTBm

Mafic flows (Strong et al., 1978a)

N:MTBp

Acidic pyroclastics (Strong et al., 1978b)

N:MTBr

Rhyolite flows (possible ignimbrite) (Strong et al., 1978a)

N:MTBi

Ignimbrite (possibly equivalent to Tilt Hills Formation) (Strong et al., 1978a)

N:MTBc

Coarse acidic and intermediate agglomerate (was part of abandoned Beacon Hill Formation) (Strong et al., 1978a)

N:MTBt

Rhyolite flows and tuff, minor mafic lithic tuff (was part of abandoned Beacon Hill Formation) (Strong et al., 1978a)

N:MTB

Porphyritic basalt, felsic lithic tuffs, oxidized mafic flows, red tuffaceous sediments, felsic agglomerates, waterlain lithic tuffs, minor mafic flows; red porphyritic vitrophyre. (comp. O'Brien et al., 1977a)

Tilt Hills Formation

N:MTHb

Porphyritic basalt and volcanic breccia (Strong et al., 1978a)

N:MTHp

Acidic pyroclastics (Strong et al., 1978a)

N:MTHi

Ignimbrite (Strong et al., 1978a)

N:MTH

Feldsparphyric basalt with white plagioclase phenocrysts up to 2cm long in a black aphanitic matrix. It occurs as dikes cutting acidic pyroclastics and as extensive flows outside the map area. Includes; acidic pyroclastics, both welded and unwelded, coarse and fine grained, typical of the Marystown Group except for the presence of some clasts of porphyritic andesite which are not seen elsewhere. (Strong et al., 1978a)

Mount Lucy Anne Formation

N:MLAr

Flow-banded and spherulitic rhyolite (Strong et al., 1978a)

N:MLAb

Basalt, locally pillowed (Strong et al., 1978a)

N:MLAp

Acidic pyroclastics (possibly equivalent to Beacon Hill Formation) (Strong et al., 1978a)

Mount Saint Anne Formation

N:MSAr

Rhyolite flows (Strong et al., 1978a)

N:MSAI

Acidic lapilli and lithic tuff (locally spherulitic). (Strong et al., 1978a)



Sequence of rhyolitic and intermediate lithic and crystallitic ash-flow tuffs. (comp. Strong et al., 1978a)



Predominantly volcanics. Includes: rhyolitic to rhyodacitic flows, pyroclastics and epiclastics, mafic flows, tuffs, breccias, felsic agglomerates and related lahars, rhyolite porphyry, greywacke and associated volcanogenic sediments, red sandstone and conglomerate (Williams et al., 1985)

Burin Group

Beaver Pond Formation



Pillowed tholeiitic basalt, alkaline near Mt. Margaret; some waterlain mafic pyroclastics; minor limestone (Strong et al., 1978a)

Wandsworth Formation



Tholeiitic gabbro, coarse to fine grained, locally layered (Strong et al., 1978a)



Granodiorite (Strong et al., 1978a)



Tholeiitic gabbro, coarse to fine grained, locally layered and Granodiorite (comp. Strong et al., 1978a)

Path End Formation



Pillowed tholeiitic basalt, subordinate mafic pyroclastics and chert (laterally equivalent to Port au Bras Formation) (Strong et al., 1978a)

Sculpin Point Formation



Grey-green thick bedded siltstone, sandstone, conglomerate, black shale, argillite, subordinate mafic flows and sills (possibly equivalent to Port au Bras and Corbin Head Formations) (Strong et al., 1978a)

Port au Bras Formation

Massive, brecciated and pillow mafic flows; mafic aquagene tuffs (O'Brien and Taylor, 1983a)



Massive and bedded mafic tuff and agglomerate, breccia, chert and shale. (O'Brien and Taylor, 1983a)



Dominantly waterlain mafic pyroclastics, abundant pillowed basalt, tuffaceous sandstone, black argillite, recrystallized dolomitic limestone and limestone breccia (Strong et al., 1978a)

Corbin Head Formation

Grey-green sandstone, siltstone conglomerate, red argillite, limestone lenses. Most are graded and volcanically derived (possibly a distal facies of the Musgravetown Group). (Strong et al., 1978a)

Pardy Island Formation

Pillowed alkali basalt with minor red-grey argillite, greywacke, red limestone lenses (Strong et al., 1978a)

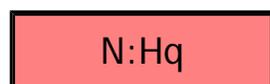


Dominantly submarine, mafic volcanic and comagmatic, mafic intrusive rock with subordinate clastic sediments. (Williams et al., 1985)

Holyrood Intrusive Suite



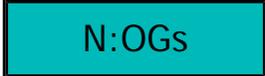
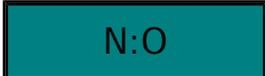
Neoproterozoic. Unseparated granodiorite, diorite, monzonite and quartz monzonite (may in part be equivalent to Woodford's monzonite) (O'Brien and O'Driscoll, 1996)



Medium grained, pink, green and gray quartz monzonite, and quartz diorite to gabbro (King, 1988)

Love Cove Group

N:Ot	Schistose vitric and crystal tuff, quartz porphyritic rhyolite, felsic agglomerate and sericite schist (O'Brien et al., 1987)
N:Osh	Grey to black shale with silicic laminae, thin chert beds and fine grained tuff. (O'Brien et al., 1987)
N:Osd	Grey meta-arenite, phyllite and tuffaceous sandstone; minor unseparated metavolcanic rocks (comp. O'Brien, 1992b)
N:Om	Mafic to intermediate flows, tuffs and volcanic breccias; minor shaly matrix breccia. (O'Brien et al., 1987)
N:Oid	Strongly foliated, greenschist grade, felsic to intermediate metavolcanic rocks of mainly pyroclastic origin; sericite schist and phyllite; minor quartz-phyric rhyolite flows and epiclastic metasedimentary rocks; numerous unseparated pre-tectonic diabase dykes (comp. O'Brien, 1992b)
N:Oi	Feldsparphyric tuff and breccia of intermediate composition (O'Brien et al., 1987)
<i>Grandy's Pond formation</i>	
N:OGf	Neoproterozoic. Gray and green feldspathic litharenite, locally with unseparated felsic tuff beds; conglomerate, gray sandstone and siltstone (O'Brien et al., 1984a)
N:OGm	Neoproterozoic. Mafic tuff and flows (O'Brien et al., 1984a)
N:OGse	Neoproterozoic. Undivided, brown and gray epiclastic sediments (O'Brien et al., 1984a)

	Gray and green volcanogenic sandstone and granule to pebble conglomerate; cross-laminated feldspathic litharenite and arenite; minor red conglomerate and red and green arkosic sandstone (comp. O'Brien and Taylor, 1983a)
	Epiclastic volcanic and sedimentary rocks (O'Brien et al., 1984a)
	Variably strained, greenschist facies volcanics. Lithologically diverse suite of submarine to subaerial eruptive rocks, a continuum of compositions between rhyolite and basalt. (O'Brien, 1989) A wide variety of interbedded, sedimentary, and volcanic rocks that are regionally metamorphosed and deformed to chlorite-sericite schists. Individual beds or bands are generally less than 15m thick (Jenness, 1963). (O'Brien et al., 1989; Williams et al., 1985)
Harbour Main Group	
	Neoproterozoic. Red sandstone, conglomerate, slate; green tuffaceous siltstone and sandstone; includes minor felsic and mafic volcanic rocks (comp. King, 1988)
	Neoproterozoic. Green to purple basaltic flows and pyroclastic rocks; includes minor felsic volcanic rocks, clastic sedimentary rocks and gabbro (comp. King, 1988)
	Neoproterozoic. Pink to gray felsic tuff and agglomerate; pink to red rhyolite and welded tuff; includes minor mafic volcanic and clastic sedimentary rocks (comp. King, 1988)
	Neoproterozoic. Green to dark-gray, massive to flow-banded and brecciated, rhyolitic intrusive and extrusive rocks (King, 1988)

Neoproterozoic to Late Devonian

Powder Horn Diorite Complex

N-D:P

Fine to medium grained diorite, gabbro and diabase; minor phases of granite and felsite (comp. King, 1988; comp. O'Driscoll and Hussey, 1978)

Neoproterozoic to Middle Ordovician

Humber Arm Allochthon (low structural slices)

*Lower Head
Formation*

O:HL

Early to Middle Ordovician. Medium- to thick-bedded, green sandstone; pebble to cobble conglomerate with clasts of red argillite, chert and limestone (Williams, 1985b)

Eagle Island Formation

eO:HE

Early Ordovician. Grey and green, lithic sandstones interbedded with grey, green, and locally red shales (Waldron and Palmer, 2000)

Cow Head Group

*Green Point
Formation*

CO:HWGb

Late Cambrian to Middle Ordovician. Mainly thin platy limestone, shale and dolomitic siltstone with rare thin limestone breccia beds (Cawood et al., 1987)

CO:HWG

Late Cambrian to Middle Ordovician. Thin-bedded, platy limestone and shale, medium-bedded pebble to cobble limestone breccia and conglomerate, buff dolomitic siltstone, minor chert and calcarenite (Cawood et al., 1987)

Shallow Bay Formation

CO:HWS

Middle Cambrian to Middle Ordovician. Thick-bedded, pebble to boulder limestone breccia and conglomerate, thin-bedded, platy limestone, dolomitic siltstone and shale, calcarenite and minor chert (Cawood et al., 1987)

Bonne Bay group

McKenzies formation

CO:HBM

Middle Cambrian to Early Ordovician. Thin- to medium-bedded, grey limestone, buff-weathering limestone, cross-laminated limy siltstone, and dark grey shale (locally chaotic with blocks of buff-weathering limy siltstone and grey sandstone in shale matrix) (Williams et al., 1984)

Barters formation

eC:HBB

Early Cambrian. Thin-bedded, dark grey shale with thin-bedded, brown-weathering quartzite, thick white quartzite units, and local conglomerate (Williams et al., 1984)

Mitchells formation

NC:HBM

Neoproterozoic to Early Cambrian. Thick-bedded, grey to white quartzite, quartz greywacke, green and purple slate (Williams et al., 1984)

Northern Head Group

Middle Arm Point Formation

O:HNM

Early to Middle Ordovician. Green and minor red, siliceous mudstones, and thinly bedded silty dolostones and minor thinly bedded limestone (Waldron and Palmer, 2000)

Cooks Brook Formation

CO:HNC

Middle Cambrian to Early Ordovician. Ribbon laminated calcarenite beds interbedded with grey shale, and limestone conglomerate (Waldron and Palmer, 2000)

Curling Group

Irishtown Formation

eC:HCI

Early Cambrian. Dark grey, graphitic, pyritic slate, dark grey to white, graded, quartzitic sandstone beds, and local polymictic conglomerate including clasts of plutonic and clastic sedimentary rocks, vein quartz and rare limestone (comp. Waldron and Palmer, 2000)

Summerside Formation

NC:HCS

Neoproterozoic to Early Cambrian. Maroon and grey-green slate interbedded with very fine- to coarse-grained, quartz-rich arkosic sandstone (comp. Waldron and Palmer, 2000)

Old Mans Pond group

Bobbys Brook formation

CO:HCB

Middle Cambrian to Early Ordovician. Metamorphosed, thin-bedded limestone and shale; limestone breccia (Williams et al., 1983)

Otter Brook formation

eC:HCO

Early Cambrian. Grey shale and siltstone, phyllite, prominent thick white quartzite units (Williams et al., 1983)

Canal Pond formation

N-O:HCC

Grey to green greywacke, white to pink quartz sandstone, quartzite, pebble conglomerate and grey to purple argillite (Williams et al., 1983)

N-O:HC

Greywacke, quartzite, conglomerate, grey, green, purple and black shale; interbedded dark grey shale and light grey platy limestone, thick limestone breccia, and minor chert (comp. Williams and Cawood, 1989)

Melange

Undivided

mO:Hmu

Middle Ordovician. Dark grey to black shale, commonly chaotic with outside blocks of sedimentary rock from the low structural slices, and volcanic, plutonic and metamorphic rocks of the intermediate and high structural slices of the Humber Arm Allochthon; immediately west of Georges Lake, the unit is represented by a slate terrane, including mostly broken Goose Tickle Group and elements of melange, Green Point and Irishtown formations, and Weasel Group (comp. Williams, 1985a; comp. Knight, 2003)

Rocky Harbour melange

mO:Hmr

Middle Ordovician. Grey to black and red scaly shale melange with mainly sedimentary blocks derived from low structural slices of the Taconian allochthons and the top of the autochthon; occurs between the autochthon and the lower structural slices (comp. Williams and Cawood, 1989)

mO:Hm

Middle Ordovician. Grey to black and red scaly shale melange with mainly sedimentary blocks derived from low structural slices of the Taconian allochthons and the top of the autochthon; occurs between the autochthon and the lower structural slices (comp. Williams and Cawood, 1989)

Undivided sedimentary units of the Humber Zone

N-O:PU

Marble, variably recrystallized dolostone, quartzite and schist, probably derived from the Labrador, Port au Port, St. George and/or Table Head groups (comp. Owen, 1991; comp. Hyde, 1982)

Neoproterozoic to Early Ordovician

Fleur de Lys Supergroup

Birchy complex

CO:FBg

Late Cambrian to Early Ordovician. Actinolite-chlorite schist; includes local black pelitic schist with bright green fuchsite-actinolite lenses (Bostock et al., 1983c)

CO:FBx

Late Cambrian to Early Ordovician. Grey to black graphitic schist; locally as matrix to melange, containing blocks of serpentized ultramafic rock, actinolite-fuchsite schist, metagabbro, marble, and psammitic and semipelitic schist (Hibbard, 1983)

CO:FBc

Late Cambrian to Early Ordovician. Calcareous pelite (Bursnall and Hibbard, 1980)

CO:FBm

Late Cambrian to Early Ordovician. Mainly metagabbro and whitish green weathering calc-silicate schist (Hibbard, 1983)

CO:FB

Late Cambrian to Early Ordovician. Structural assemblage of greenschist, amphibolite, and minor psammitic, semipelitic and graphitic schist (including melange), marble, coticule, metagabbro, and serpentized ultramafic rock (comp. Hibbard, 1983)

N-O:Fas

Mainly mafic schist and amphibolite (Hibbard et al., 1980a)

N-O:Fay

Mainly massive, blackish green amphibolite dykes, sills and pods; locally eclogitic where they occur in the East Pond Metamorphic Suite (comp. Hibbard, 1983)

N-O:Ffs

Unseparated psammitic, semipelitic, garnetiferous semipelitic, graphitic and mafic schist (Hibbard et al., 1980a)

*Breeches Pond
Formation*

mC:FBm

Middle Cambrian. Marble-rich sequence (Cawood and van Gool, 1998)

mC:FB

Middle Cambrian. Grey calcareous schist, calc-mica schist, mica and graphitic schist, marble and meta-limestone conglomerate (Cawood and van Gool, 1998)

Mount Musgrave Group

*South Brook
Formation*

NC:FMSa

Ediacaran to Middle Cambrian. Quartzofeldspathic schist and gneiss, minor pelite and amphibolite, containing pervasive albite porphyroblasts; includes unseparated granitoid gneiss which is probably equivalent to Lady Slipper Pluton or Corner Brook Complex (comp. Cawood and van Gool, 1998)

NC:FMSpm

Ediacaran to Middle Cambrian. Tan, quartz-muscovite schist; minor marble (Williams et al., 1983)

NC:FMSpc

Ediacaran to Middle Cambrian. Green-grey to pink, chloritic marble (Knight, 1996)

NC:FMSpp

Ediacaran to Middle Cambrian. Micaceous, quartz-feldspar, pelitic to psammitic schists (Williams et al., 1983)

NC:FMSp

Ediacaran to Middle Cambrian. Psammitic and pelitic schist, quartzite, garnet schist, and minor marble, amphibolite and quartz pebble conglomerate (Cawood and van Gool, 1998)

NC:FMS

Ediacaran to Middle Cambrian. Psammitic and pelitic schist, quartzite, garnet schist, and minor marble, amphibolite and quartz pebble conglomerate; quartzofeldspathic schist and gneiss containing pervasive albite porphyroblasts; includes unseparated granitoid gneiss which is probably equivalent to Lady Slipper Pluton or Corner Brook Complex (comp. Cawood and van Gool, 1998)

Little North Pond Formation

NC:FML

Ediacaran to Middle Cambrian. Coarse arkosic meta-greywacke, schistose greywacke and phyllitic schist, quartz-pebble conglomerate at base (Williams et al., 1983)

Mount Musgrave Group?

NC:FM?

Ediacaran to Middle Cambrian. Polydeformed psammite, pelite and phyllite of uncertain affinity; tentatively assigned to the Mount Musgrave Group but may belong to the Hawke Bay Formation of the Labrador Group (comp. Knight, 1994)

Ming's Bight Group

Pelee Point schist

CO:FMP

Late Cambrian to Early Ordovician. Mainly dark green amphibolite and greenschist; minor graphitic and pelitic schist, locally containing pods of metagabbro and coarse actinolite schist (Hibbard, 1983)

N-O:FMg

Meta-greywacke, pebbly psammitic and semipelitic schist (Bostock et al., 1983a)

N-O:FMs

Buff to grey weathering, psammitic and semipelitic schist; minor quartz pebble metaconglomerate and semipelitic to graphitic schist containing pods of metagabbro and coarse actinolite schist (Hibbard, 1983)

Horse Islands Group

Hit or Miss Point formation

N-O:FHH

Buff to grey weathering, interlayered psammitic, semipelitic, and pelitic schist; minor pebbly psammitic schist (Hibbard, 1983)

Eastern Island formation

N-O:FHEg

Mainly greenschist; minor semipelitic schist and marble (Hibbard, 1983)

N-O:FHE

Grey to buff, quartz-rich semipelitic schist; minor mafic schist, metafelsite and marble (comp. Hibbard, 1983)

Rattling Brook group

N-O:FRa

Mainly medium to dark green amphibolite and greenschist (Hibbard, 1983)

N-O:FRg

Grey to black graphitic schist; locally feldspar porphyroblastic (Hibbard, 1983)

N-O:FRc

Mainly marble and calcareous pelite; minor marble breccia (Hibbard, 1983)

N-O:FRp

Mainly garnet-porphyroblastic, quartz-muscovite schist (Hibbard, 1983)

N-O:FR

Semipelitic, pelitic and psammitic schist; minor greenschist, marble and graphitic schist (Hibbard, 1983)

Old House Cove group

N-O:FOg

Albite-muscovite psammitic and pelitic schist with minor graphitic schist, marble and pebbly quartzite (Bostock et al., 1983a)

N-O:FOs

Buff to grey weathering, medium- to coarse-grained, psammitic and semipelitic schist; minor pebbly psammitic schist and graphitic schist (Hibbard, 1983)

N-O:FOT

Medium- to coarse-grained, feldspar porphyroblastic, mica schist, tectonically derived from Old House Cove Group protolith (comp. Hibbard, 1983)

White Bay Group

Pigeon Island formation

N-O:FWP

Mainly garnet-porphyroblastic, quartz-muscovite semipelitic schist, feldspathic psammitic schist, locally magnetite-rich, and graphitic schist (Hibbard, 1983)

Garden Cove formation

N-O:FWG

Medium to dark green amphibolite and mafic schist; locally fragmental (Hibbard, 1983)

N-O:FWsc

Mainly marble and carbonate schist; local marble breccia and conglomerate; minor quartzite (Hibbard, 1983)

N-O:FWs

Unseparated semipelitic, pelitic, and graphitic schist with subordinate psammitic, garnet porphyroblastic, and mafic schist; minor marble and quartz pebble metaconglomerate (Hibbard, 1983)

Oody Mountain amphibolite

N-O:FWO

Grey-green, medium-grained amphibolite; includes large screens of pink granitic gneiss; minor metaconglomerate (comp. Hibbard, 1983)

Dashwoods Subzone

N-O:FDa

Amphibolite (van Berkel and Currie, 1988)

N-O:FDc

Marble, diopside marble and calcsilicate rocks (Chorlton and Knight, 1983)

N-O:FDgq

Quartzitic and semipelitic metasedimentary rocks (van Berkel and Currie, 1988)

N-O:FDgp

Psammitic metasedimentary rocks (van Berkel, 1987b)

N-O:FDgs

Garnetiferous, sillimanite-bearing, semipelitic to pelitic schist, gneiss and migmatite, including some blastomylonite (Chorlton and Knight, 1983)

N-O:FDgo

Semipelitic and pelitic paragneiss and schist, locally containing clasts and blocks of mafic, ultramafic and intermediate intrusive rocks up to hundreds of metres across (comp. van Staal et al., 1996a)

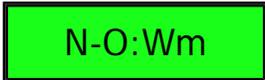
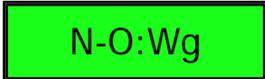
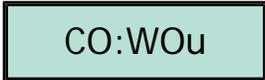
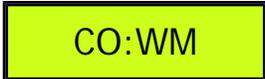
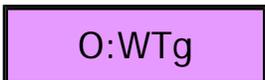
N-O:FDg

Nebulitic to stromatolitic quartzofeldspathic and semipelitic gneisses (comp. Whalen, 1993b; comp. Currie and van Berkel, 1992)

N-O:FD

Metasedimentary gneisses and schists of the Dashwoods Subzone; includes high grade psammitic gneisses, commonly with potassium-feldspar porphyroblasts, quartzite, marble, pelitic and calcareous schists, commonly thinly interbedded, and rare conglomerate and calcareous lentils (comp. Currie and van Berkel, 1992)

Southern White Bay Allochthon

	Dark green, medium-grained metadiorite and mafic schist (epidote + chlorite + albite schist) (Owen, 1986)
	Fine- to medium-grained, dark green to grey greywacke; rare quartz-pebble conglomerate. Maiden Point Formation equivalents. (Smyth and Schillereff, 1981a)
<i>Coney Head Complex</i>	
	Early Ordovician. Medium- to coarse-grained biotite tonalite (Smyth and Schillereff, 1981a)
	Early Ordovician. Gabbro and quartz gabbro (Smyth and Schillereff, 1981a)
<i>Ophiolitic rocks</i>	
	Late Cambrian to Early Ordovician. Gabbro and metagabbro (Smyth and Schillereff, 1981a)
	Late Cambrian to Early Ordovician. Talc-carbonate schist (Smyth and Schillereff, 1981a)
<i>Murrays Cove Schist</i>	
	Late Cambrian to Early Ordovician. Polydeformed greenschist, minor metagabbro, and red chert (Smyth and Schillereff, 1981a)
<i>Taylor's Pond Formation</i>	
	Middle to Late Ordovician. Second Pond melange: Melange containing green sandstone, quartzite, serpentinite and talc blocks in a black slate matrix (comp. Williams, 1995)
	Middle to Late Ordovician. Black graphitic slate with calc-silicate beds (Smyth and Schillereff, 1981a)
	Middle to Late Ordovician. Black graphitic slate (Smyth and Schillereff, 1981a)

O:WT

Middle to Late Ordovician. Black graphitic slate with calc-silicate beds; melange containing serpentinite blocks and slivers (comp. Smyth and Schillereff, 1981a)

Hare Bay Allochthon

St. Anthony Complex

*White Hills**Peridotite*

eO:RSW

Early Ordovician. Brown weathering, serpentinitized and foliated harzburgite, dunite and lherzolite; includes finely-banded, amphibolite-bearing rocks at its base (Bostock et al., 1983b)

Green Ridge Amphibolite

N-O:RSR

Well foliated amphibolite and garnetiferous amphibolite, minor marble and foliated gabbro; includes pyroxene-bearing amphibolite at the White Hills Peridotite contact; has a gradational metamorphic contact with the Goose Cove Schist (Bostock et al., 1983b)

Goose Cove Schist

N-O:RSGm

Greenschist derived mainly from thinly layered tuffs, mafic agglomerate and flows; includes black and green pelitic schist, thin marble beds and deformed gabbro sills; has gradational contacts with both the Green Ridge Amphibolite and the Ireland Point Volcanics (comp. Bostock et al., 1983b)

N-O:RSG

Greenschist derived mainly from thinly layered tuffs, mafic agglomerate and flows; includes black and green pelitic schist, thin marble beds, deformed gabbro sills, and greywacke and psammitic schist; has gradational contacts with both the Green Ridge Amphibolite and the Ireland Point Volcanics (comp. Bostock et al., 1983b)

*Ireland Point
Volcanics*

N-O:RSI

Schistose to relatively undeformed, purple, red and green agglomerate and mafic pillow lava; has a gradational contact with the Goose Cove Schist (comp. Bostock et al., 1983b)

Cape Onion Slice

Cape Onion Formation

eO:RCC

Early Ordovician. Dark green to black, mafic pillow lava, minor agglomerate, tuff, and black, pyritic, graptolite-bearing shale (Bostock et al., 1983b)

Grandois Slice

Irish Formation

C:RGI

Early to Middle Cambrian. Sandy limestone; brown thinly bedded siliceous limestone and slate; basal unit of sheared and brecciated quartzite with minor interbedded greenschist (comp. Bostock et al., 1983c)

Maiden Point Slice Assemblage

Maiden Point Formation

NC:RMMi

Neoproterozoic to Early Cambrian. Medium- to coarse-grained diorite and gabbro, and unseparated mafic dykes and sills (Bostock et al., 1983b)

NC:RMMv

Neoproterozoic to Early Cambrian. Mafic agglomerate and tuff, massive basaltic flows, and local pillow lava (Bostock et al., 1983b)

NC:RMMs

Neoproterozoic to Early Cambrian. Coarse-grained greywacke; red, green, purple and black slate, quartz pebble conglomerate, and minor limestone conglomerate (Bostock et al., 1983b)

NC:RMM

Neoproterozoic to Early Cambrian. Coarse-grained greywacke; red, green, purple and black slate, quartz pebble conglomerate, and minor limestone conglomerate; mafic agglomerate and tuff, massive basaltic flows, and local pillow lava; minor medium- to coarse-grained diorite and gabbro, and unseparated mafic dykes and sills (comp. Bostock et al., 1983a)

Northwest Arm Slice

Northwest Arm Formation

eO:RNN

Early Ordovician. Pyritiferous, green and black shale, grey and black bedded chert, grey limestone including limestone breccia, calcarenite, calcisiltite, thinly bedded ribbon limestone and shale, grey sandstone and thick dark grey, locally gritty sandstone, and intraclastic conglomerate composed of intraformational lithoclasts; the formation was disarticulated during emplacement of the Hare Bay Allochthon (Knight et al., 1986a)

Melange

Milan Arm Melange

mO:RnMx

Middle Ordovician. Black and green shale matrix containing a variety of rock fragments, including mafic volcanic rocks, greywacke and diorite of the Maiden Point Formation, mafic volcanic rocks of the Cape Onion Formation, ultramafic rocks of the White Hills Peridotite, and foliated gabbro, biotite schist and coarse-grained pyroxenite and hornblendite of the Green Ridge Amphibolite (comp. Bostock et al., 1983b)

NC:RnMv

Neoproterozoic to Early Cambrian. Large tabular fragments of mafic volcanic rocks of the Maiden Point Formation (comp. Bostock et al., 1983b)

NC:RnMs

Neoproterozoic to Early Cambrian. Large tabular fragments of greywacke of the Maiden Point Formation (comp. Bostock et al., 1983b)

NC:RnMi	Neoproterozoic to Early Cambrian. Large tabular fragments of diorite of the Maiden Point Formation (comp. Bostock et al., 1983b)
NC:Gcvt	Ediacaran to Early Cambrian. Fine-grained, grey-white and pink-white, felsic tuff, locally containing minor carbonate lenses; medium- to coarse-grained, quartz and feldspar lapilli tuff; minor sandstone and phyllite (Dickson et al., 1996b)
E:Gcss	Ediacaran or younger. Pelitic to psammitic phyllite and schist, minor quartzite, banded amphibolite and migmatite (Dickson et al., 1996a)
E:Gcsm	Ediacaran or younger. Migmatized semipelite, pelitic and psammitic schist, and minor hornblende +/- biotite schist (Dickson et al., 1996a)
N:Gbsg	Neoproterozoic. Agmatite consisting of hornblende +/- biotite schist, migmatite and amphibolite, intruded by foliated leucogranite (Dickson et al., 1996a)
N:Gbss	Neoproterozoic. Hornblende +/- biotite schist, migmatite and amphibolite (Dickson et al., 1996a)
N:Gbg	Neoproterozoic. Fine- to medium-grained granitic and granodioritic gneiss containing profuse mafic xenoliths (Dickson et al., 1996a)
Neoproterozoic	
Hughes Lake Complex	
<i>Deer Pond volcanics</i>	
N:HLD	Massive to amygdaloidal and schistose mafic flows, now metamorphosed to biotite, chlorite, epidote greenschist (Williams et al., 1983)

N:HLf

Meta-rhyolite and pink silicic volcanic breccia; associated albite schist (Williams et al., 1983)

Round Pond granite

N:HLR

Massive to mildly foliated and schistose, pink, subalkalic granite; albite-chlorite schist, biotite amphibolite and metadiabase (comp. Williams et al., 1983; comp. Knight, 1994)

Simmons Brook Intrusive Suite

N:Sd

Dark grey to green, fine- to medium-grained diorite, medium- to coarse-grained gabbro, and minor diabase (comp. O'Brien, 1998; comp. Dickson, 1987)

N:Sg

Grey, medium-grained, equigranular, hornblende-biotite granodiorite and tonalite; minor gabbro (O'Brien, 1998)

Hare Hill Granite

N:HHf

Strongly lineated leucogranite, commonly containing elongate quartz, which stands out on weathered surfaces, and platy ilmenite, possibly secondary after biotite (comp. Currie and van Berkel, 1992)

N:HHm

Red to pink, one or two feldspar, riebeckite and aegirine granite; massive and coarse-grained to pegmatitic (comp. Currie et al., 1986)

N:HH

Massive, red to pink, one or two feldspar, riebeckite and aegirine granite; foliated to lineated leucogranite; intensely sheared muscovite granite (possibly Silurian in part) (Currie and van Berkel, 1992; Currie et al., 1986)

Connaigre Bay Group

*Downs Point
Formation*

N:CWv

Pink to purple, massive rhyolite and felsic lithic-crystal tuff and fine-grained breccia (O'Brien, 1998)



Red and purple, graded and cross-bedded sandstone and pebble to cobble conglomerate; red laminated siltstone (O'Brien, 1998)

Doughball Point Formation



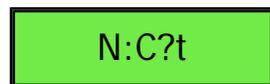
Grey to green, massive andesite and basalt; green mafic tuff and agglomerate; minor felsic flows and fine-grained pyroclastic rocks; includes unseparated hornfels (O'Brien, 1998)

Sam Head Formation

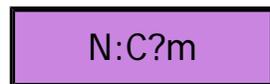


Grey and green, well-bedded and laminated siltstone and sandstone; grey and minor red, polymictic pebble to boulder conglomerate at or near the base of the formation; minor limestone (O'Brien, 1998)

Connaigre Bay Group?



Unnamed volcanic and clastic sequence: undivided dark grey and green, massive to layered mafic tuffs and grey to green tuffaceous sandstone; minor basalt (O'Brien, 1998)



Unnamed metamorphic sequence: metasedimentary and metavolcanic rocks, including psammite, massive to foliated amphibolite and rare mylonitic paragneiss; minor unseparated granodiorite and diorite (O'Brien, 1998)

Furbys Cove Intrusive Suite



Granite porphyry (O'Brien, 1998)



Pink to white, equigranular, blue-quartz-bearing granite, locally forming narrow sheets; minor unseparated mafic plutonic and related hybrid rocks (O'Brien, 1998)



Diabase, felsite and blue-quartz-phyric granitic dykes, containing narrow screens of country rocks (O'Brien, 1998)

N:Fd

Medium-grained, green to dark grey quartz diorite; minor unseparated granite and hybrid rocks; also includes unseparated, mafic and felsic dykes and locally screens of volcanic rocks (O'Brien, 1998)

Tickle Point Formation

N:TP

Buff- to brown-weathering, pink to purple and green, felsic volcanic rocks, including massive and banded rhyolite flows and crystal and crystal-lithic felsic tuffs; minor basalt and andesite flows and interlayered, tuffaceous sedimentary rocks; locally contains unseparated diorite sills and plugs (O'Brien, 1998)

Late Mesoproterozoic to Late Cambrian

M-C:m

Dark green, medium-grained, amphibole-bearing metagabbro, typically with subophitic texture (Owen, 1986)

Late Mesoproterozoic to Neoproterozoic

Grenvillian granitoid rocks

Mesocratic granitoids

*Uncorrelated
charnockitic
pluton*

MN:GMc

Orthopyroxene monzonite (Owen, 1991)

*Potato Hill
satellite pluton*

MN:GMPs

Coronitic charnockite (Owen, 1991)

Potato Hill pluton

MN:GMPc

Coronitic charnockite (Owen, 1991)

MN:GMPh

Mesocratic megacrystic hornblende-biotite granite (Owen, 1991)

Camp Pond pluton

MN:GMNe

Medium-grained, hornblende-biotite granodiorite to granite (comp. Owen, 1987a; comp. Owen, 1991)

MN:GMNm

Megacrystic, hornblende-biotite granodiorite to granite, with or without pyroxene (comp. Owen, 1987a; comp. Owen, 1991)

Lake Michel intrusive suite

M3:GMLge

Late Mesoproterozoic. Medium-grained, hornblende-biotite granodiorite to granite (comp. Owen, 1987a; comp. Owen, 1991)

M3:GMLgp

Late Mesoproterozoic. Plagioclase-megacrystic, hornblende-biotite granodiorite to granite (comp. Owen, 1987a; comp. Owen, 1991)

M3:GMLgm

Late Mesoproterozoic. Megacrystic, hornblende-biotite granodiorite to granite, with or without pyroxene (comp. Owen, 1987a; comp. Owen, 1991)

M3:GMLz

Late Mesoproterozoic. Medium-grained, hornblende-biotite +/- pyroxene, quartz monzodiorite to granite (Owen, 1991)

M3:GMLd

Late Mesoproterozoic. Massive to slightly schistose, grey and green, medium- to coarse-grained, plagioclase-hornblende-augite diorite (comp. Bostock et al., 1983c)

Intermediate granitoids

Lake Michel intrusive suite

M3:GIL

Late Mesoproterozoic. Hornblende-biotite granite, sparsely potassium feldspar-megacrystic (Owen, 1991)

Leucocratic granitoids

MN:GLx

Potassium feldspar-megacrystic biotite +/- hornblende granite (Owen, 1991)

MN:GLe

Biotite +/- hornblende granite (Owen, 1991)

Horse Chops pluton

N:GLS

Neoproterozoic. Potassium feldspar-megacrystic biotite +/- hornblende granite (Owen, 1991)

Cloud River pluton

N:GLU

Neoproterozoic. Medium-grained biotite-hornblende granite (Owen, 1991)

Leg Pond pluton

MN:GLGx

Potassium feldspar-megacrystic biotite +/- hornblende granite (Owen, 1991)

MN:GLGe

Biotite +/- hornblende granite (Owen, 1991)

Main River pluton

MN:GLM

Pink, massive to foliated, potassium feldspar-megacrystic biotite +/- hornblende granite (Owen, 1991)

Aspy pluton

MN:GLA

Potassium feldspar-megacrystic biotite +/- hornblende granite (Owen, 1991)

Cat Arm River pluton

MN:GLC

Potassium feldspar-megacrystic biotite +/- hornblende granite (Owen, 1991)

Little Cat Arm pluton

MN:GLTx

Potassium feldspar-megacrystic biotite +/- hornblende granite (Owen, 1991)

MN:GLTe

Medium-grained biotite-hornblende granite (Owen, 1991)

Pigeon Cove pluton

MN:GLI

Potassium feldspar-megacrystic biotite +/- hornblende granite (Owen, 1991)

Hooping Harbour and related plutons

MN:GLH

Potassium feldspar-megacrystic biotite +/- hornblende granite (Owen, 1991)

East Adies River pluton

MN:GLE

Medium-grained biotite-hornblende granite (Owen, 1991)

Rex Lake pluton

MN:GLR

Pink, fine- to medium-grained, variably epidotized leucogranite (Owen, 1986)

Camp Pond pluton

MN:GLN

Medium-grained biotite-hornblende granite (Owen, 1991)

Fourche Harbour pluton

MN:GLF

Medium-grained biotite-hornblende granite (Owen, 1991)

Potato Hill pluton

MN:GLP

Garnetiferous biotite +/- hornblende granite (Owen, 1991)

Lake Michel intrusive suite

M3:GLLx

Late Mesoproterozoic. Potassium feldspar-megacrystic biotite +/- hornblende granite (Owen, 1991)

M3:GLLe

Late Mesoproterozoic. Medium-grained biotite-hornblende granite (Owen, 1991)

M3:GLL

Late Mesoproterozoic. Potassium feldspar-megacrystic biotite +/- hornblende granite; medium-grained biotite-hornblende granite; minor plagioclase-megacrystic hornblende-biotite granite to granodiorite (Owen, 1991)

Granodiorite and granite

*Killdevil Hill
pluton*

M3:GGK

Late Mesoproterozoic. Massive to foliated biotite +/- hornblende granite and minor megacrystic biotite-hornblende granodiorite (comp. Owen, 1991)

Lomond River pluton

M3:GGD

Late Mesoproterozoic. Coarse-grained to megacrystic biotite +/- hornblende granodiorite (Owen, 1991)

Middle Mesoproterozoic to Neoproterozoic

MN:y

Altered mafic dykes, mainly amphibolitic (Currie and van Berkel, 1992)

Middle Mesoproterozoic

Elsonian anorthosite suites

*Indian Head
anorthosite suite*

M2:A1a

Coarse-grained, massive to mildly foliated, white to bluish-grey anorthosite and gabbroic anorthosite, locally cut by mafic dykes (Williams, 1985a)

M2:A1g

Layered gabbro and anorthositic gabbro, gradational with and related to anorthosite plutons (comp. Williams, 1985a)

*Steel Mountain
anorthosite suite*

M2:ASt	Border phase of foliated, greenish black amphibolite, brownish gabbro and norite, and white to pale pink anorthosite (comp. Currie and van Berkel, 1992)
M2:ASng	Coarse-grained mafic and noritic gneiss (comp. Fong, 1977)
M2:ASn	Norite (van Berkel and Currie, 1988)
M2:ASg	Gabbroic anorthosite, gneissic amphibolite and gabbro (comp. van Berkel, 1987b; comp. Currie and van Berkel, 1992)
M2:ASa	Massive anorthosite (comp. van Berkel, 1987b)
M2:AS	Coarse-grained, massive to well foliated, grey to bluish grey and buff anorthosite and gabbroic anorthosite; deformation and metamorphism increase from west to east; anorthositic rocks are cut by mafic dykes, now amphibolite (Williams, 1985a)

Early Mesoproterozoic to Early Cambrian

East Pond Metamorphic Suite

NC:Est	Neoproterozoic to Early Cambrian. Medium- to coarse-grained, feldspar-porphyroblastic mica schist, tectonically derived from schist of the East Pond Metamorphic Suite (comp. Hibbard, 1983)
NC:Esp	Neoproterozoic to Early Cambrian. Dominantly fine- to medium-grained, grey, psammitic to semipelitic schist and gneiss; may include rocks equivalent to the Old House Cove Group (Hibbard, 1983)

*Middle Arm
metaconglomerate*

NC:EM

Neoproterozoic to Early Cambrian. Mainly polymict metaconglomerate with interlayered buff to grey psammitic schist (Hibbard, 1983)

MN:Eg

Early Mesoproterozoic to Neoproterozoic. Migmatitic gneiss and grey banded quartzofeldspathic gneiss; minor pink granitic gneiss (Hibbard, 1983)

Late Paleoproterozoic to Early Mesoproterozoic

Long Range gneiss complex?

PM:L?

Quartzo-feldspathic and calc-silicate gneiss inclusions in the Gull Lake intrusive suite (Smyth and Schillereff, 1981a)

Long Range gneiss complex

Orthogneiss (may include some paragneiss)

PM:LOqq

Grey, medium-grained, quartzofeldspathic biotite schist (Owen, 1986)

PM:LOqq

Green-grey, medium-grained, flecky-textured, biotite +/- hornblende +/- hypersthene, quartz dioritic to locally granodioritic gneiss (comp. Owen, 1986; comp. Owen, 1991)

PM:LOqgb

Granitic to granodioritic biotite gneiss; locally migmatitic (Owen, 1991)

PM:LOqgbl

Granitic to granodioritic biotite gneiss; locally migmatitic; chiefly leucocratic (quartz, microcline, plagioclase) gneiss; colour index 0 to 5 (comp. Owen, 1991; comp. Bostock et al., 1983a)

PM:LOqgbm

Granitic to granodioritic biotite gneiss; locally migmatitic; chiefly mesocratic (biotite, quartz, microcline, plagioclase) gneiss; colour index 5 to 15; on Belle Isle includes abundant Long Range dykes (comp. Owen, 1991; comp. Bostock et al., 1983a)

PM:LOqgbh	Granitic to granodioritic biotite gneiss; locally migmatitic; chiefly melanocratic (+/- hornblende, biotite, quartz, +/- microcline, plagioclase) gneiss; colour index greater than 15 (comp. Owen, 1991; comp. Bostock et al., 1983a)
PM:LOqgby	Felsic protomylonite derived from granitic to granodioritic biotite gneiss (comp. Bostock et al., 1983a; comp. Owen, 1991)
PM:LOqgh	Streaky-textured hornblende-biotite (-pyroxene, -garnet) granitic gneiss (Owen, 1991)
PM:LOqgt	Orthopyroxene-bearing tonalitic and quartz dioritic gneiss (comp. Owen, 1991; comp. Owen, 1987a)
PM:LOqtd	Biotite +/- orthopyroxene +/- clinopyroxene +/- hornblende quartz dioritic gneiss (Owen, 1987a)
PM:LOqtt	Orthopyroxene +/- biotite +/- clinopyroxene +/- garnet +/- hornblende tonalitic gneiss (Owen, 1987a)
PM:LOqpe	Medium to dark grey, quartz-eye schist; other components include albite, altered plagioclase, amphibole, biotite, epidote and chlorite (comp. Bostock et al., 1983c)
PM:LOqpp	Fine-grained, grey to white, pink or pale green, quartz-feldspar-muscovite-chlorite phyllonite; characterized by a silvery micaceous parting and locally has a lenticular banding (comp. Bostock et al., 1983c)
PM:LOqpm	Muscovite-chlorite-quartz-feldspar schist and quartz-rich gneiss (Bostock et al., 1983a)
PM:LOqgd	Plagioclase-megacrystic quartz dioritic biotite schist (Owen, 1991)
PM:LOqs	Schistose quartz dioritic to tonalitic biotite gneiss (Owen, 1991)

PM:LOq	Quartzofeldspathic gneisses, including quartz dioritic, tonalitic, granitic-granodioritic compositions (comp. Owen, 1991)
PM:LOms	Dark green, medium-grained, amphibole-bearing, dioritic gneiss and amphibolite (Owen, 1986)
PM:LOmm	Hornblende-biotite +/- muscovite dioritic gneiss (Owen, 1987a)
PM:LOmu	Meta-ultramafite (Bostock et al., 1983a)
PM:LOmah	Hypersthene-bearing amphibolite (Bostock et al., 1983a)
PM:LOmaa	Amphibolite (Bostock et al., 1983a)
PM:LOma	Amphibole +/- biotite +/- pyroxene dioritic gneiss and amphibolite (Owen, 1987a)
PM:LOm	Amphibolite, dioritic gneiss, and mesocratic to mafic gneiss; minor meta-ultramafite (comp. Owen, 1991; comp. Bostock et al., 1983a)
<i>Indian Head Complex</i>	
M1:LOIq	Early Mesoproterozoic. Massive to foliated pink granite, quartz-feldspar gneiss, pink syenitic gneiss, pink granitic gneiss with magnetite-rich lenses and local pegmatite (Williams, 1985a)
M1:LOIm	Early Mesoproterozoic. Light to dark grey foliated biotite-hornblende-plagioclase gneiss and associated pink feldspar gneiss, foliated dioritic and gabbroic gneiss, minor quartz-feldspar gneiss and magnetite-bearing mafic gneiss (Williams, 1985a)

Southern Long Range

M1:LOSd

Early Mesoproterozoic. Disappointment Hill Complex: Two pyroxene granulite gneiss and retrograded equivalents; orthopyroxene granite, locally megacrystic (Currie and van Berkel, 1992)

M1:LOSc

Early Mesoproterozoic. Corner Brook Lake complex: Granitoid gneiss with amphibolite and minor quartzite, marble and psammitic gneiss; hornblende-plagioclase gneiss (comp. Cawood and van Gool, 1998; comp. Williams, 1985a)

PM:LO

Quartz dioritic, tonalitic, granitic-granodioritic, and mafic gneisses (comp. Owen, 1991)

Paragneiss

PM:LPC

Buff, grey or white, medium-grained, forsterite +/- diopside marble; talc +/- tremolite(?) marble; dark grey, forsterite-phlogopite +/- diopside +/- spinel calc-silicate rock; rare, layered, wollastonite-clinopyroxene-bytownite calc-silicate rock (Owen, 1986)

PM:LPp

Pelitic gneiss, locally associated with quartzite or mafic gneiss (Owen, 1991)

PM:LPq

Quartzite and quartz-rich gneiss (Owen, 1991)

PM:L

Mainly quartzo-feldspathic gneiss, including granitic-granodioritic, quartz dioritic, and tonalitic compositions; lesser amounts of amphibolite, and dioritic and mafic gneiss; screens of paragneiss, including metacarbonate rocks, pelitic gneiss, and quartzite; metamorphosed in the amphibolite and granulite facies (comp. Owen, 1991)