

LEGEND

CARBONIFEROUS	
C _M	Morien Group: conglomerate, sandstone, mudstone, siltstone and shale with minor thin coal in upper part
C _R	Riversdale Group: sandstone, mudstone, siltstone with coaly debris and rare coal
C _C	Canso Group: shale, siltstone, gypsum, anhydrite, and minor limestone and breccia
C _W	Windsor Group: gypsum, anhydrite, and limestone with intercalated siltstone, sandstone, and conglomerate
C _{Pg}	St. Peters gabbro
C _H	Horton Group: conglomerate, sandstone, and shale; minor limestone
DEVONIAN - CARBONIFEROUS	
D _C	Undivided sedimentary rocks of the L'Ardoise block: sandstone, shale, mudstone, and conglomerate
D _G	Petit de Grat pluton: red to pink leucogranite
DEVONIAN	
D _M	McAdams Lake Formation: arkosic sandstone, conglomerate, shale, and felsic tuff
D _{Og}	Gillis Mountain Pluton: porphyritic monzogranite, monzodiorite, quartz monzodiorite
D _{Dg}	Deep Cove Pluton: biotite monzogranite
D _{Lg}	Lower St. Esprit Pluton: hornblende-biotite monzogranite
D _{Sg}	Salmon River rhyolite porphyry
D _{Mn}	Miller Brook monzodiorite and similar intrusions
DEVONIAN OR OLDER	
D _g	Gabbroic sills (west of Mira River)
D _A	Amphibolite, schist, granitoid rocks, metasedimentary rocks (mainly mylonitic) (Isle Madame area)
ORDOVICIAN(?)	
O _M	MacNeil Formation: quartz-rich siltstone and sandstone
CAMBRIAN	
C _{MH}	MacNeil Formation: dark grey shale, siltstone, and limestone
C _{ML}	MacLean Brook Formation: quartz sandstone, siltstone, and shale
C _T	Trout Brook Formation: shale, siltstone, and minor sandstone
C _C	Canoe Brook Formation: mudstone, siltstone, and minor limestone
C _M	MacCodrum Formation: siltstone and shale
C _S	Sgadan Lake Formation: quartz arenite and quartz pebble conglomerate
LATE HADRYNIAN - CAMBRIAN	
HC _B	Bengal Road Formation: maroon to red conglomerate, sandstone, siltstone; minor grey siltstone (Cape Breton Island: HC _B , quartz pebble conglomerate; HC _B , red sandstone and siltstone; HC _B , grey siltstone)
HC _K	Kelvin Glen Group: orange lithic arkose, pebble to cobble conglomerate, purple subarkose, red siltstone
LATE HADRYNIAN (?) MINOR INTRUSIONS	
HC _E	Monzodiorite (East Bay Hills belt)
HC _P	Granitic porphyry (East Bay Hills belt)
HC _{Bg}	Baleine gabbro (Coastal belt)
HC _g	Other gabbroic intrusions (Coastal belt)
HC _D	Diorite (Coastal belt)
HC _G	Granodiorite (Coastal belt)
HC _P	Felsic porphyry (Coastal belt)
HC _M	Mafic porphyry (Stirling and Coastal belts)
HC _I	Gabbro (Stirling belt)
LATE HADRYNIAN	
HC _{MD}	Main-à-Dieu Group: varied maroon to red and green heterolithic lapilli tuff; basaltic lapilli tuff; conglomerate, litharenite, and siltstone
HC _M	Dark grey to light grey-green andesitic to dacitic lithic lapilli tuff
HC _M	Varied lapilli tuff, mainly dacitic to rhyolitic; minor fine-grained tuff and laminated siltstone
HC _{MM}	Basalt flows, interlayered red conglomerate, tuffaceous arkose and tuff
HC _M	Grey-green laminated siltstone; minor lithic subarkose; minor basalt
HC _{MD}	Varied maroon to buff-coloured rhyolitic lapilli tuff
HC _{MD}	Tuffaceous conglomerate; buff to green and maroon laminated siltstone; basalt (HC _{MD})
HC _{MC}	Maroon to green conglomerate and laminated siltstone; lapilli tuff and tuffaceous conglomerate
HC _{MDA}	Basaltic and andesitic lapilli tuff; tuffaceous conglomerate; thin amygdaloidal basalt flows; maroon siltstone
HC _{MD}	Varied rhyolitic lapilli tuff; rhyolitic flows; minor maroon siltstone
HC _{MB}	Basaltic flows and lapilli tuff; maroon siltstone
HC _{ML}	Little Lorraine member: lithic lapilli tuff and tuffaceous conglomerate; grey-green laminated siltstone; very coarse lapilli tuff (HC _{ML}); numerous dacitic porphyry sills & plugs (HC _{ML})
HC _P	Plutonic units (ca. 575 Ma): Point Michaud leucogranite
HC _K	Kennington Cove pluton: tonalite
HC _B	Belfrey Gut pluton: monzogranite
HC _C	Capeelin Cove Pluton: monzogranite, leucogranite, granodiorite
HC _G	Grand River pluton: leucogranite

H _{Pb}	Fourchu Group: Basaltic lapilli tuff and breccia; basaltic flows (locally amygdaloidal); minor litharenite
H _{Pc}	Grey-green crystal-rich dacitic tuff and lithic lapilli tuff; minor rhyolitic lapilli tuff and siliceous laminated tuff
H _R	Dark grey to black fine-grained massive andesitic tuffs and flows; basaltic tuffs and flows; dark grey to black dacitic crystal-rich tuff; minor litharenite and siltstone
H _{Pd}	Black to grey fine-grained andesitic lapilli tuffs and flows
H _{Pf}	Dacitic to rhyolitic crystal-rich lithic lapilli tuff; fine-grained rhyolitic tuff and chert; minor rhyolitic flows
H _{Pg}	Gabarre member: grey-green dacitic to andesitic crystal-rich lithic lapilli tuff; abundant basaltic lenses (H _{Pg})
H _{Pn}	Dacitic to rhyolitic lapilli tuff and tuffaceous conglomerate; mainly red to maroon
H _{Pk}	Kennington Cove member: dacitic quartz-feldspar lapilli tuff and tuff (H _{Pk}); intermediate fine-grained tuff and crystal tuff; H _{Pk} , quartz-feldspar crystal tuff
H _{Pm}	Basaltic and andesitic lapilli tuffs and flows(?)
H _{Pf}	Fourchu Head member: dacitic to rhyolitic lapilli tuff; minor basaltic to andesitic flows and fine-grained tuff; H _{Pf} , dacitic to andesitic lithic tuff, fine-grained dacitic tuff, minor basaltic to dacitic flows; H _{Pf} , dacitic to rhyolitic crystal-rich lithic tuff; H _{Pf} , grey, green, and purple lithic tuff; fine-grained silty tuff; minor basaltic to andesitic flows; H _{Pf} , grey intermediate lithic-crystal tuff
H _{Pa}	Plutonic units (ca. 620 Ma): Sporting Mountain Pluton
H _{Pa}	Granodiorite transitional to monzogranite
H _{Ps}	Tonalite
H _{Pd}	Sheared granitoid and volcanic rocks
H _{Pd}	Coxheath Hills Pluton
H _{Pd}	Granodiorite
H _{Pd}	Quartz monzodiorite
H _{Pd}	Dioritic rocks
H _{Pd}	Gabbro
H _{Pm}	Spruce Brook Pluton
H _{Pm}	Monzogranite
H _{Pm}	Granodiorite
H _{Pm}	Dioritic rocks
H _{Pm}	MacEachern Lake Pluton
H _{Pm}	Monzogranite, minor granodiorite
H _{Pm}	Granodiorite, minor monzogranite
H _{Pm}	Quartz diorite, minor diorite and quartz monzodiorite
H _{Pm}	Huntington Mountain Pluton
H _{Pm}	Syenite
H _{Pm}	Leucogranite
H _{Pm}	Monzogranite
H _{Pm}	Granodiorite
H _{Pm}	Dioritic rocks
H _{Pm}	Irish Cove Pluton
H _{Pm}	Monzogranite
H _{Pm}	Chisholm Brook Suite
H _{Pm}	Granodiorite
H _{Pm}	Quartz monzodiorite
H _{Pm}	Dioritic rocks
H _{Pm}	Pringle Mountain Group
H _{Pm}	Varied basaltic to rhyolitic lapilli tuff and ash tuff; minor rhyolitic flows
H _{Pm}	Cochrane Group
H _{Pm}	Rhyolitic tuff, lapilli tuff, and flows; minor basaltic to dacitic layers/lenses and tuffaceous sedimentary rocks
H _{Pm}	Andesitic tuff, lapilli tuff, and flows; minor rhyolitic and basaltic lenses
H _{Pm}	Basaltic flows, tuff, and lapilli tuff; minor rhyolitic, dacitic, and andesitic lenses
H _{Pm}	East Bay Hills Group
H _{Pm}	Pink, brown and maroon rhyolitic lapilli tuff, tuff, and flows; H _{Pm} -Johnstone area; H _{Pm} -Morley Road area
H _{Pm}	Basaltic flows, commonly amygdaloidal, locally plagioclase-phrytic; basaltic lapilli tuff; minor silty tuff and tuffaceous conglomerate
H _{Pm}	Andesitic to dacitic crystal-rich tuff and lapilli tuff; minor rhyolitic tuff
H _{Pm}	Varied andesitic, dacitic, and rhyolitic lapilli tuff and crystal-rich tuff (H _{Pm}); mainly rhyolitic tuff (H _{Pm}); mainly andesitic tuff with rhyolitic flow or tuff lenses (H _{Pm})
H _{Pm}	Andesitic crystal-rich tuff and lapilli tuff (H _{Pm}); rhyolitic tuff (H _{Pm}); laminated siltstone (H _{Pm})
H _{Pm}	Basaltic to andesitic lapilli tuff and flows; minor tuffaceous conglomerate and litharenite
H _{Pm}	Dark grey to black dacitic lapilli tuff; minor basaltic to andesitic tuff
H _{Pm}	Amygdaloidal basalt; porphyritic basalt; basaltic to andesitic tuff and lapilli tuff
H _{Pm}	Varied grey-green andesitic to dacitic lapilli tuff, mainly strongly cleaved; minor rhyolitic tuff
H _{Pm}	Stirling Group
H _{Pm}	Rhyolite flows(?) & lapilli tuff, minor andesite lapilli tuff
H _{Pm}	Basalt-andesite-dacite flow breccias
H _{Pm}	Basalt-andesite flows, flow breccia, minor lapilli tuff
H _{Pm}	Litharenite, conglomerate (H _{Pm}), siltstone, chert & dolostone
H _{Pm}	Andesitic lapilli tuff & ash tuff, minor dacite lapilli tuff
H _{Pm}	Lapilli tuff & ash tuff, rhyolite flows(?)
H _{Pm}	Rhyolite porphyry

SYMBOLS

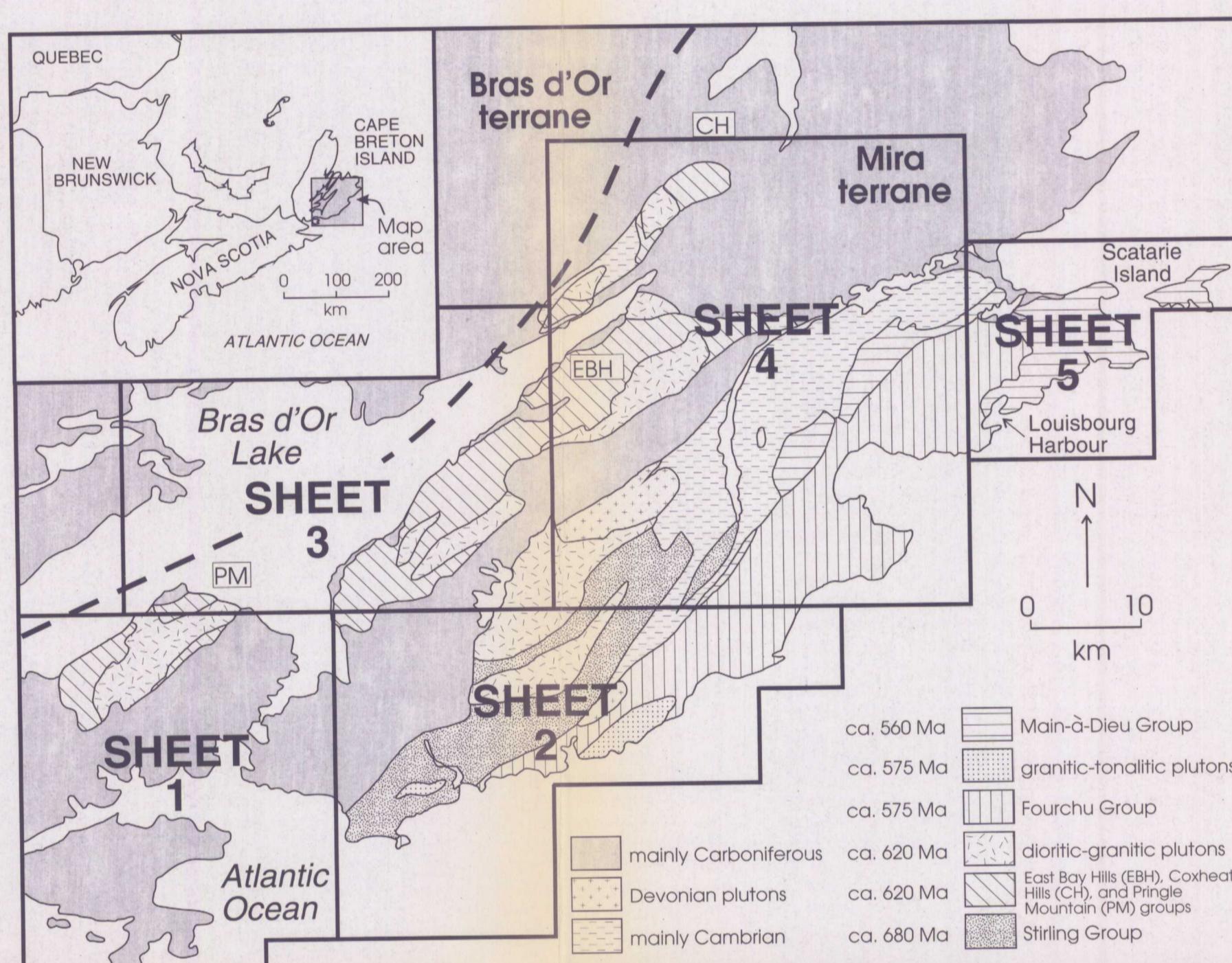
- X Rock outcrop, area of outcrop, float/possible outcrop
- Geological boundary (defined, approximate, assumed)
- Fault (defined, approximate, assumed)
- 23 Bedding, tops known (inclined, vertical, overturned)
- 27 Bedding, tops unknown (inclined, vertical)
- Younging direction
- Foliation (inclined, vertical)
- 12 Flow foliation (inclined, vertical)
- 35 Lineation
- 56 Axis of minor fold
- * Mineral occurrence, prospect (Cu, copper; Mo, molybdenum; Pb, lead; Zn, zinc; Ag, silver; Bi, bismuth; Py, pyrite)
- Drill core location

Note: These maps are a supplement to the following report and accompanying map, and provide more detail about outcrop locations, subdivisions of major map units, and distribution of minor intrusions:

Barr, S.M., White, C.E., and Macdonald, A.S., in press. Stratigraphy, tectonic setting, and geological history of Late Precambrian volcanic-sedimentary plutonic belts in southeastern Cape Breton Island, Nova Scotia. Geological Survey of Canada Bulletin 468, accompanied by Map 1853A.

Barr, S.M., White, C.E., and Macdonald, A.S., in press. Geology, southeastern Cape Breton Island, Nova Scotia. Geological Survey of Canada Map 1853A. Scale 1:100,000 (in colour).

Distribution and description of Devonian and Carboniferous sedimentary units taken mainly from Boehner and Prime (1985) and Boehner and Giles (1986).

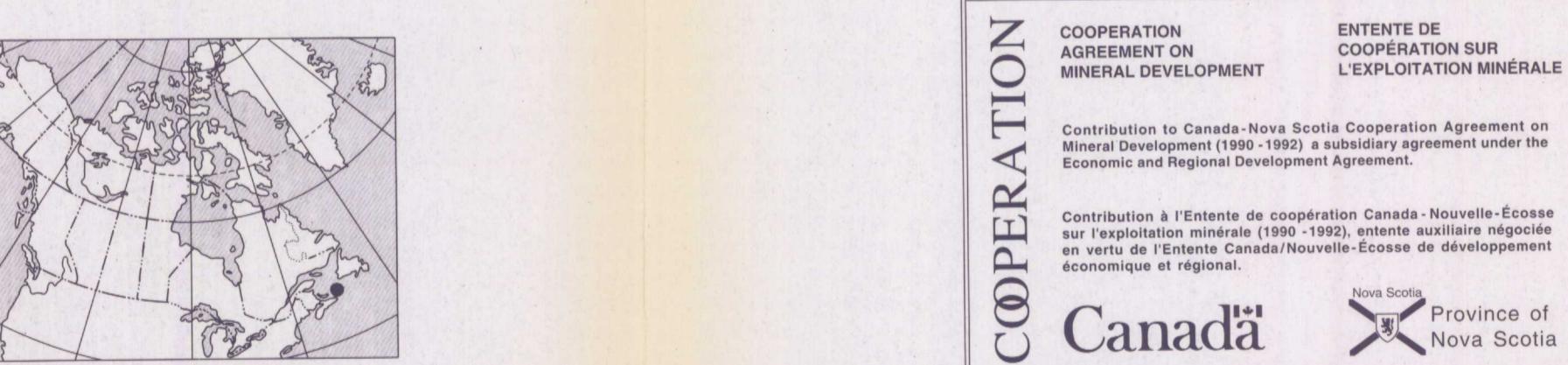


GEOLGY AND LOCATION MAP FOR OPEN FILE 2732

OPEN FILE 2732
SHEET 6 OF 6
GEOLOGY

NOVA SCOTIA

Kilometres 1 0 1 2 3 4 Kilometres
Universal Transverse Mercator Projection
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GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
OTTAWA 1996

Sheet 6 of 6, Legend
Recommended citation:
Barr, S.M., White, C.E., and Macdonald, A.S.
1996. Geological Survey of Canada, Open File 2732, scale 1:40 000
Geological Survey of Canada, Ottawa, Ontario, Canada