

**LEGEND\***

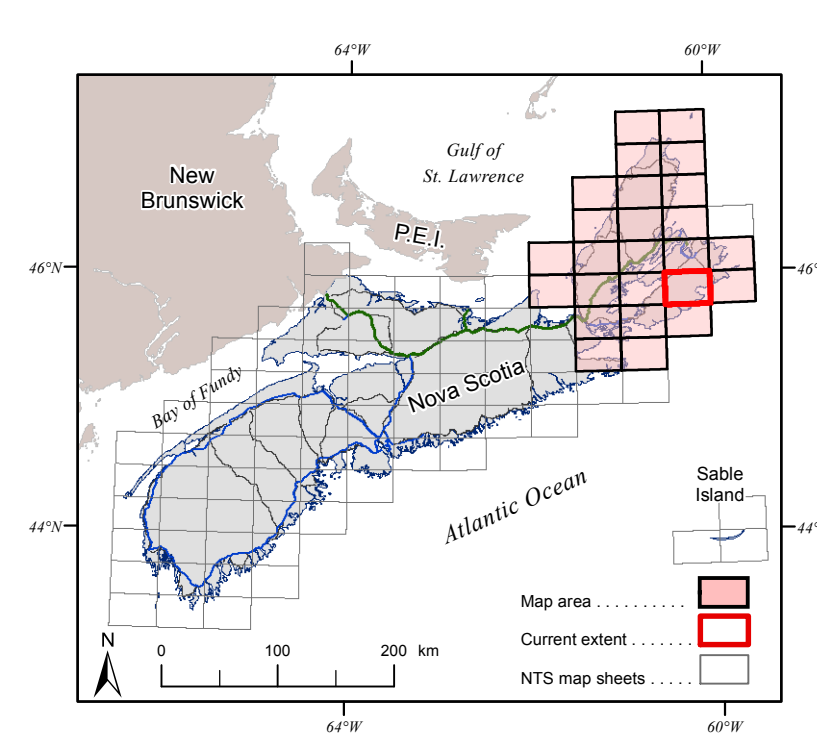
Code	Unit name	Unit Name or Assemblage Code
DC - LCCgy	Glenarry Valley Formation	DC - Late Devonian, Carboniferous & Mesozoic
DC - LCCbb	Big Barren Formation	AT - Aspy Terrane
DC - LCCsb	South Bar Formation	BT - Bras d'Or Terrane
DC - LCCms	Silver Mine Formation	MT - Mira Terrane
DC - MCMml	Mackeigan Lake Formation	BR - Bear River Inlier
DC - ECWu	Windsor Group (undivided)	CP - Cape Porcupine Complex
DC - ECWw	Woodbine Road Formation	
DC - ECWst	Uist Formation	
DC - ECWl	Loch Lomond Formation	
DC - ECWm	Meadows Road Formation	
DC - ECWm	Lower Middle Windsor Group (undivided)	
DC - ECWsr	Sydney River Formation	
DC - ECWgr	Gays River Formation	
DC - ECWmb	Macbeth Brook Formation	
DC - ECHu	Horton Group (undivided)	
DC - ECHg	Grantmire Formation	
BT - nEEdv	Frenchvale Road Metamorphic Suite	
MT - MDdc	Deep Cove Pluton	
MT - MDgm	Gillis Mountain Pluton	
MT - MDml	Millers Brook Pluton	
MT - MDsr	Salmon River Rhyolite Porphyry	
MT - MDmlc	McAdam Lake Formation - conglomerate	
MT - LCMrb	McAdams Brook Formation	
MT - LCMrm	McNeil Formation	
MT - MCMrb	Maclean Brook Formation	
MT - MCMrb	Trout Brook Formation	
MT - ECMrb	Canoe Brook Formation	
MT - ECMrc	MacCordum Formation	
MT - ECMrl	sgadan Lake Formation	
MT - ECMrb	Bengal Road Formation	
MT - LEkl	Kelvin Lake Formation	
MT - LEMdd	Canoe Lake Formation	
MT - LEMdb	Belle Lake Formation	
MT - LEMdr	Ragged Rocks Cove Formation	
MT - LEMdbp	Battery Point Formation	
MT - MEBg	Belfrey Gut Pluton	
MT - MEBr	Blackrock Point Gabbro	
MT - MEMP	MacLeans Point Pluton	
MT - MEff	Framboise Formation	
MT - MEFg	Gull Lake Formation	
MT - MEml	Mathesons Lake Formation	
MT - MEfl	Cricket Lake Formation	
MT - MEFg	Gabusus Formation	
MT - MEJl	Johnson Lake Formation	
MT - MEKc	Kennington Cove Formation	
MT - MEfg	Cape Gabusus Formation	
MT - MEfh	Fourchu Head Formation	
MT - EEbd	Chisholm Brook Plutonic suite - diorite	
MT - EEbdg	Chisholm Brook Plutonic Suite - granodiorite	
MT - EEhd	Huntington Mountain Pluton - diorite	
MT - EEhdg	Huntington Mountain Pluton - granodiorite	
MT - EEhmg	Huntington Mountain Pluton - leucogranite	
MT - EEhmg	Huntington Mountain Pluton - monzogranite	
MT - EEhmg	Huntington Mountain Pluton - syenogranite	
MT - EEmgd	MacDougall Point Pluton - monzodiorite	
MT - EEmgd	MacDougall Point Pluton - granitic porphyry	
MT - EEmgd	MacEachern Lake Pluton - granodiorite	
MT - EEmgd	MacEachern Lake Pluton - monzogranite	
MT - EEmgd	MacEachern Lake Pluton - quartz diorite	
MT - EEsb	Spruce Brook Pluton - diorite	
MT - EEsb	Spruce Brook Pluton - granodiorite	
MT - EEsbm	Morley Road Formation	
MT - EEbbe	Ben Eoin Formation	
MT - EEbmo	Mountain Lake Formation	
MT - EEbnd	Rear Big Pond Formation	
MT - EEbml	MacMillans Lake Formation	
MT - EEbml	sgura shreac Formation	
MT - EEchb	Mackeigan Brook Formation	
MT - EEchb	beechmont Formation	
MT - EEbpm	Stirling Belt Gabbro	
MT - EEbpm	Stirling Belt Mafic Porphyry	
MT - LCsm	Rory Neils Lake Formation	
MT - LCsm	MacDonald Lake Formation	
MT - LCsg	Gracieville Formation	
MT - LCswb	West Branch Marie Joseph Brook Formation	
MT - LCsm	MacCormicks Brook Formation	

\* Note: For full unit description and terrane information, please refer to the detailed legend for the Cape Breton Compilation Project - Open File Illustration ME 2017-001

**Symbols\***

Outcrop, float	Mineral occurrence (see Henrick and Calder 2017)	Rock in water
Drillhole (see O'Reilly et al. 2016)	Mineral occurrence (see O'Reilly et al. 2016)	Trans Canada highway
Highway	Highway	Arterial highway (CT = Cabot Trail Hwy 30)
Collector highway	Collector highway	Local road
Seasonal, restricted or private road	Seasonal, restricted or private road	Trail, track
Railway (active, inactive)	Railway (active, inactive)	River, stream
Boundary (county, inter-provincial)	Boundary (county, inter-provincial)	Transmission line
Geological contact	Geological contact	Cape Breton Highlands National Park
Fault	Fault	Wetlands
Thrust fault	Thrust fault	Dam
Major coal seam (see Henrick and Calder 2017)	Major coal seam (see Henrick and Calder 2017)	Lake, ocean
Area of concentrated drilling	Area of concentrated drilling	

\* Note: Compiled symbols list for Open File Maps ME 2017-007 to 2017-031. All symbols may not appear on each map.



**Map Notes**

GIS databases, cartography and reproduction by Angie Barras, David Haggood and Jeff McKinnon of the Nova Scotia Department of Natural Resources, Geoscience Information Services Section, 2012-2017. The GIS databases and map were developed using ArcGIS® 10.2.2.

Universal Transverse Mercator Projection (UTM), Zone 20, Central Meridian 63°00' West, North American Datum (NAD) 1983 Canadian Spatial Reference System (CSRS) 98.

Base and digital data derived from the Nova Scotia Topographic Database (NSTDB). Copyright Her Majesty the Queen in Right of the Province of Nova Scotia. The NSTDB is available from the Department of Internal Services, Nova Scotia Geomatics Centre (NSGC), Amherst, Nova Scotia.

Shaded relief image derived from a 25 m Digital Elevation Model of the Province of Nova Scotia, DP ME 36, version 2, 2006. Azimuth of 315°, sun angle of 45° and a vertical exaggeration of 5.

In compiling the maps and legend, unit names and ages were taken mainly from the source references, with no attempt to reconcile that information across Cape Breton Island, to remove duplicate names, or to re-interpret areas of geological inconsistencies that are not the work of the compilers.

**Acknowledgments**

Most of the geological information on this map sheet was compiled from work by Barr et al. (1988, 1989, 1996), Boehmer and Giles (1986) and Boehmer and Prime (1985). Full reference information for those publications, as well as others used in map compilation, is available in the accompanying open file report. Karen Johnston, Dallas Mackenzie and Christa Puffel did much of the digitizing of original field locations from 1:10 000 scale orthophoto base maps. We thank Angie Barras, David Haggood and Jeff McKinnon for their help in producing these maps and the associated database. Sandra Barr acknowledges the long-term support of the Natural Sciences and Engineering Research Council of Canada and her employer, Acadia University. We thank Rob Rassias for reviewing the maps and providing many helpful comments.

Nova Scotia Department of Natural Resources  
Geoscience and Mines Branch  
Open File Map ME 2017-015

**Bedrock Geology Map of the  
Mira River Area, NTS 11F/16,  
Cape Breton and Richmond Counties, Nova Scotia**

Compiled by  
**S. M. Barr and C. E. White**  
Scale 1:50 000  
Halifax, Nova Scotia  
2017

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**Recommended Citation**

Barr, S. M. and White, C. E. 2017. Bedrock geology map of the Mira River area, NTS 11F/16, Cape Breton and Richmond Counties, Nova Scotia. Nova Scotia Department of Natural Resources, Geoscience and Mines Branch, Open File Map ME 2017-015, scale 1:50 000.

**Disclaimer**

The information on this map may have come from a variety of government and nongovernment sources. The Nova Scotia Department of Natural Resources does not assume any liability for errors that may occur. This map is intended for use at the published scale of 1:50 000.

**Selected References**

For a complete list of references please refer to Open File Report ME 2017-002.

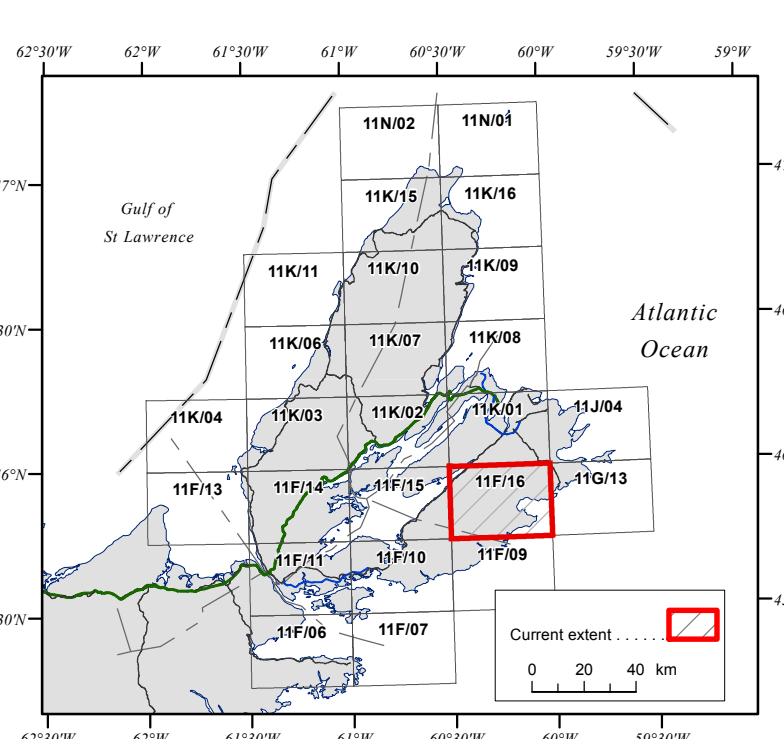
Barr, S. M. and White, C. E. 2017. List of compilation sources for bedrock geology maps of Cape Breton Island, Nova Scotia (Open File Maps ME 2017-006 to 2017-031). Nova Scotia Department of Natural Resources, Open File Report ME 2017-002, 7 p.

Henrick, E. W. and Calder, J. H. 2017. Nova Scotia Coal Database. Nova Scotia Department of Natural Resources, Digital Product ME 120, unpublished.

O'Reilly, M. J. and Protle, J. C. 2016. Nova Scotia drillhole database. Nova Scotia Department of Natural Resources, Digital Product ME 3, version 5. <http://www.gov.ns.ca/nat/mdb/downloaddp003.asp> [ISBN:185557].

O'Reilly, G. A., DeMont, G. J., Fisher, B. E. and Poole, J. C. 2016. Nova Scotia mineral occurrence database. Nova Scotia Department of Natural Resources, Digital Product ME 2, Version 11. <http://novascotia.ca/nat/mdb/downloaddp002.asp> [ISBN:18752].

<sup>1</sup> Internal Search Number (ISN) is a unique identifier used in Nova Scotia's Geoscience Maps and Publications Database. The ISN can be used to retrieve a digital version of the base data. <http://novascotia.ca/nat/mdb/>



**NOVA SCOTIA**

Open File Map ME 2017-015  
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