

LEGEND*

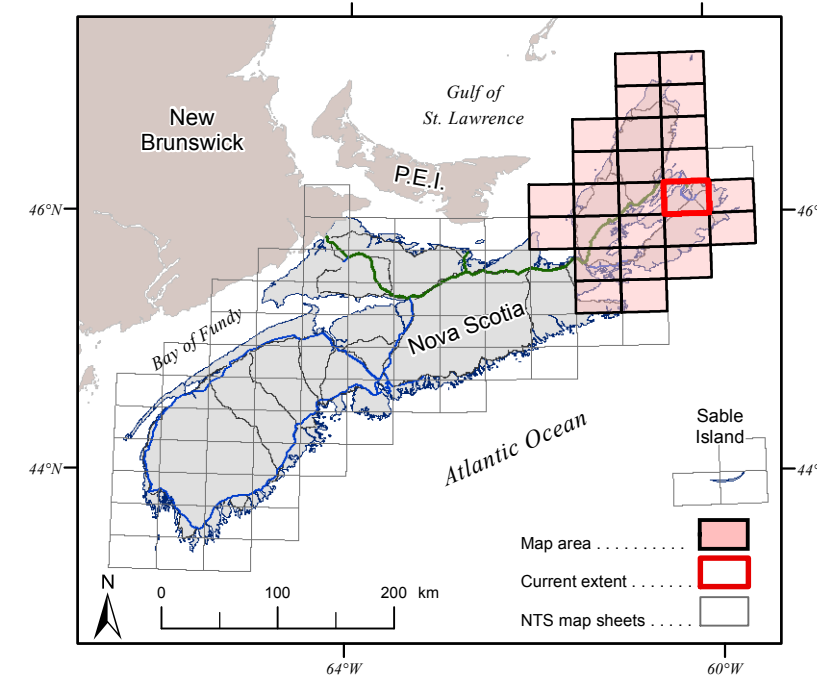
Code	Unit label	Unit name	Unit Terrane or Assemblage Code:
DC - LCCcu	Cumberland Group (undivided)		DC - Late Devonian, Carboniferous & Mesozoic
DC - LCCcm	Sydney Mines Formation		AT - Aspy Terrane
DC - LCCwc	Waddens Cove Formation		BT - Bras d'Or Terrane
DC - LCCcb	South Bar Formation		MT - Mira Terrane
DC - MCMu	Mabou Group (undivided)		BR - Bras River Inlier
DC - MCMpe	Point Edward Formation		CP - Cape Porcupine Complex
DC - MCMcd	Cape Dauphin Formation		
DC - ECWu	Windor Group (undivided)		
DC - ECWwr	Windbine Road Formation		
DC - ECWmr	Meadows Road Formation		
DC - ECWsr	Sydney River Formation		
DC - ECWgr	Gays River Formation		
DC - ECWmb	Macbeth Brook Formation		
DC - ECWbg	granitite Formation		
BT - Omb	McLeod Brook Formation		
BT - MLCkmmg	Kellys Mountain Granite - monzogranite		
BT - MLCmc	Mount Cameron Syenogranite		
BT - MLCm	MacNeil Formation		
BT - MLCmst	MacMullin Formation		
BT - MLCBGu	Bourinot Group (undivided)		
BT - MLCBgg	Gregwa Formation		
BT - MLCBgd	Dugald Formation		
BT - MLCBge	Eskasoni Formation		
BT - Ebhlg	Boisdale Hills Pluton - leucosyenogranite		
BT - Ebhmg	Boisdale Hills Pluton - microgranite		
BT - Ebhgd	Boisdale Hills Pluton - biotite granodiorite		
BT - Ebhbd	Boisdale Hills Pluton - biotite-hornblende granodiorite		
BT - Ebhd	Boisdale Hills Pluton - diorite		
BT - Esmg	Shunacadie Pluton - monzogranite		
BT - Esgd	Shunacadie Pluton - granodiorite		
BT - nPGRbv	Benacadie Brook Formation		
BT - nPBdv	Frenchvale Road Metamorphic Suite		
MT - MDml	McAdam Lake Quartz Syenite		
MT - MDmic	McAdam Lake Formation - conglomerate		
MT - MDmlsh	McAdam Lake Formation - shale		
MT - MDmlss	McAdam Lake Formation - sandstone		
MT - LCMRmb	McAdams Brook Formation		
MT - LCMRrm	McNeil Formation		
MT - MCMRml	MacLean Brook Formation		
MT - MCMRtr	Trout Brook Formation		
MT - ECMRcb	Canoe Brook Formation		
MT - ECMRsl	Scadan Lake Formation		
MT - ECMRrb	Bengal Road Formation		
MT - LEMdr	Ragged Rocks Cove Formation		
MT - EEchd	Coxheath Hills Pluton - diorite		
MT - EEchgd	Coxheath Hills Pluton - granodiorite		
MT - EEchgb	Coxheath Hills Pluton - gabbroiorite		
MT - EEchgm	Coxheath Hills Pluton - monzodiorite		
MT - EEchmd	MacEachern Lake Pluton - granodiorite		
MT - EESbd	Spruce Brook Pluton - diorite		
MT - EESbgd	Spruce Brook Pluton - granodiorite		
MT - EESbmg	Spruce Brook Pluton - monzogranite		
MT - EECmb	MacKeigan Brook Formation		
MT - EECma	Macbeth Brook Formation		
MT - EECb	Beechmont Formation		

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

Symbols*

Outcrop, float	Rock in water
Drillhole (after O'Neill et al., 2016)	Trans Canada highway
Mineral occurrence (modified after O'Neill et al., 2016)	Highway
Artificial highway (CT = Cabot Trail Hwy 30)	Collector highway
Local road	Seasonal, restricted or private road
Trail, track	River, stream
Railway (active, inactive)	Boundary (county, inter-provincial)
Fold axis (see style unknown, s 661, 2 f40)	Transmission line
Foliation (inclined, vertical)	Cape Breton Highlands National Park
Intersection lineation	Wetlands
Geological contact	Dam
Fault	Lake, ocean
Thrust fault	
Major coal seam (after Henken and Calder, 2017)	
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 and Setter (1988a, b), Barr et al. (1988, 1996), Boehner and Giles (1988), Thiele (1987), White and Barr (1988) and White et al. (1984). Full reference information for those publications, as well as others used in map compilation, is available in the accompanying open file report, Karen Johnson, Dales MacIsaac and Christa Pufalt 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 Reardon for reviewing the maps and providing many helpful comments.

Nova Scotia Department of Natural Resources
Geoscience and Mines Branch
Open File Map ME 2017-020

Bedrock Geology Map of the Sydney Area, NTS 11K/01, Cape Breton and Victoria 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 Sydney area, NTS 11K/01, Cape Breton and Victoria Counties, Nova Scotia. Nova Scotia Department of Natural Resources, Geoscience and Mines Branch, Open File Map ME 2017-020, scale 1:50 000.

Disclaimer

The information on this map may have come from a variety of government and non-government 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

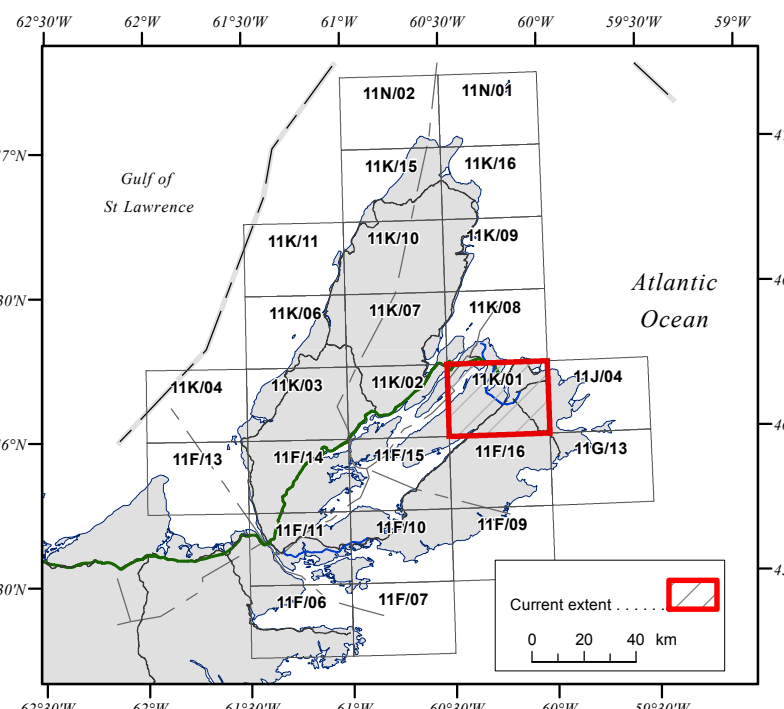
For a complete list of references please refer to Open File Report ME 2017-002.

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.

O'Neill, M. J. and Poole, J. C., 2016. Nova Scotia drillhole database. Nova Scotia Department of Natural Resources, Digital Product ME 3, version 5. <http://www.gov.ns.ca/natr/mdb/downloaddp003.asp> [ISBN:18555].

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/natr/mdb/downloaddp002.asp> [ISBN:18752].

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 location. <http://novascotia.ca/natr/mdb/>



NOVA SCOTIA

Open File Map ME 2017-020
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