

LEGEND

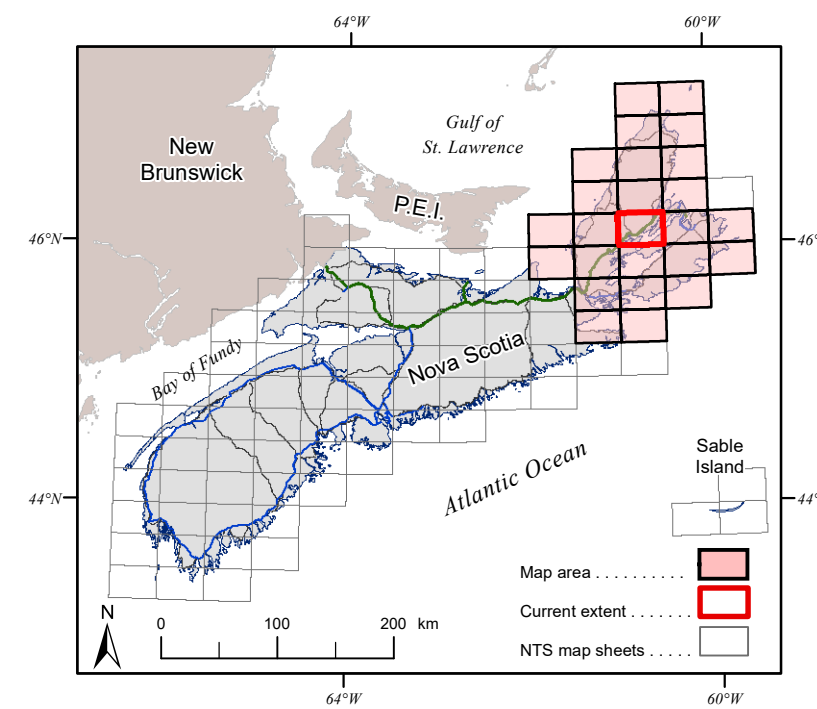
Code	Unit Name	Unit Name	Unit Name
DC - LCCsb	South Bar Formation	BT - MLCmst	MacMillan Formation
DC - MCApe	Point Edward Formation	BT - MLCGg	Greva Formation
DC - MCMtu	Upper Mabou Group - undivided	BT - MLCBd	Dugald Formation
DC - MCMlu	Lower Mabou Group - undivided	BT - MLCGe	Eskasoni Formation
DC - ECWu	Windsor Group - undivided	BT - Eab	Adelaide Brook Leucotonalite
DC - ECWh	Hood Island Formation	DC - Ebb	Baddeck River granodiorite
DC - ECWw	Woodbine Road Formation	BT - Ebb	Beinn Sheargh Granodiorite
DC - ECWm	Meadows Road Formation	BT - Ebb	Big Hill Granodiorite
DC - ECWim	Lower Middle Windsor Group - undivided	BT - Ebbh	Boisdale Hills Pluton - biotite-hornblende granodiorite
DC - ECWm	Macumber Formation	BT - Ebbd	Boisdale Hills Pluton - diorite
DC - ECHu	Horton Group - undivided	BT - Ebb	Bucklaw Pluton
DC - ECHA	Ainslie Formation	BT - Egc	Goose Cove Brook Granodiorite
DC - ECHS	Strathorne Formation	BT - Egc	Grass Cove Pluton
DC - ECHC	Creignish Formation	BT - Ekr	Kathy Road Dioritic Suite
DC - ECHg	Grantmire Formation	BT - Ekm	Kellys Mountain Diorite
DC - LDBu	Fisset Brook Formation - undivided	BT - Eng	New Glen Granite
AT - LDBmg	Bothan Brook Pluton	BT - Ebn	North Branch Baddeck River Leucotonalite
AT - LDgms	Gillanders Mountain Pluton - syenogranite	BT - Esmg	Shunacade Pluton - monzogranite
AT - LDmm	MacMillan Mountain volcanic Suite	BT - Esgd	Shunacade Pluton - granodiorite
AT - EDim	Leonard MacLeod Brook Plutonic Suite	BT - ESc	Snake Cat Lake Granodiorite
AT - SDeb	Easach Ban Complex	BT - Ew	Washabuck Pluton
AT - SDgb	Gillis Brook Diorite	BT - nPGRar	Aberdeen Ridge Formation
AT - SDIad	Lake Ainslie Pluton - diorite	BT - nPGRr	Barachois River Formation
AT - Sbsms	Sarach Brook Metamorphic Suite	BT - nPGRb	Benacadie Brook Formation
AT - OSmb	MacRae Brook Formation	BT - nPGRt	Glen Tosh Formation
AT - nPSGMu	Gillanders Mountain Metamorphic Suite - undivided	BT - nPGRmh	Maskells Harbour Formation
AT - nPSGEm	Egypt Mountain Road Formation	BT - nPGRfmc	McMillan Flowage Formation - middle clastic member
AT - nPSGSm	Salt Brook Formation	BT - nPGRmq	McMillan Flowage Formation - quartzite member
BT - Dw	Whycocomagh Mountain Pluton	BT - nPGRfmc	McMillan Flowage Formation - lower clastic member
BT - MLCkmg	Kellys Mountain Granite - monzogranite	BT - nPGRv	Frencheville Road Metamorphic suite
BT - MLCsa	St. Anns Leucogranite	BT - nPBCm	Kellys Mountain gneiss
BT - MLCm	Mackell 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, Flat	Rock in water
Drift/trace (after O'Reilly et al., 2016)	Trans Canada highway
Mineral occurrence (modified after O'Reilly et al., 2016)	Highway
Ag - silver; ASG - aggregate; Au - auriferous; Cr - chromite; Cu - copper; Di - diorite; E - Easach Ban Complex; Fe - iron; G - granite; Gr - granodiorite; H - hornblende; K - kaolinite; M - monzogranite; Mg - magnetite; Mn - manganese; Mo - molybdenum; Ni - nickel; P - pyrite; Pt - platinum; Py - pyroxene; S - sulphur; Sh - shale; St - staurolite; T - talc; U - uranium; W - tungsten; Zn - zinc	Collector highway (CT = Cabot Trail Hwy 303)
Bedding: tops known (inclined, vertical, overturned)	Anterior highway
Bedding: tops unknown (inclined, vertical)	Local road
Foliation (inclined, vertical)	Seasonal, restricted or private road
Fold axis (not style unknown, a fold, 2 fold)	Trail, track
Intersection lineation	Railway (active, inactive)
Mineral lineation	River, stream
Geological contact	Boundary (county, inter-provincial)
Fault	Transmission line
Thrust fault	Cape Breton Highlands National Park
Major coal seam (after Inverness and Calder, 2017)	Wetlands
Area of concentrated drilling	Dam
	Lake, ocean

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



**Revisions Presented in OFM 2021-004, Revised Edition**

Bedrock geology was modified and re-interpreted in the general area of St. Anns, southward to Baddeck Bay and Plaister Mines. This is a revised edition of Open File Map ME 2017-019.

**Map Notes**

GIS databases, cartography and reproduction by Angie Barras of the Nova Scotia Department of Energy and Mines, Geoscience and Mines Branch, Geological Survey Division, 2021. The GIS databases and map were developed using ArcGIS 10.7.1.

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 Service Nova Scotia and 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, DIP ME 56, 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 incongruities 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. (1992), Farrow (1989), Ham (1997), Home (1996), Jamieson and Doucet (1983), Lynch and LaFrance (1996), Lynch et al. (1993, 1995), O'Neil (1998), Wassak (2004), Wassak et al. (2005), White and Barr (1988a) and White et al. (1994). Full reference information for these publications, as well as others used in map compilation, is available in the accompanying open file report, Karen Johnson, Datas MacIsaac and Christa Pufahl 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 MacKinnon 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 Fossas for reviewing the maps and providing many helpful comments.

Nova Scotia Department of Energy and Mines  
Geoscience and Mines Branch - Geological Survey Division  
Open File Map ME 2021-004

**Bedrock Geology Map of the  
Baddeck Area, NTS 11K/02,  
Cape Breton, Inverness and  
Victoria Counties, Nova Scotia**

Revised Edition

Compiled by  
**S. M. Barr and C. E. White**

Scale 1:50 000

Halifax, Nova Scotia  
2021

Crown Copyright © 2021, Province of Nova Scotia, all rights reserved.

**Recommended Citation**

Barr, S. M. and White, C. E. 2021. Bedrock geology map of the Baddeck area, NTS 11K/02, Cape Breton, Inverness and Victoria Counties, Nova Scotia. Revised Edition. Nova Scotia Department of Energy and Mines, Geoscience and Mines Branch, Open File Map ME 2021-004, 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 Energy and Mines 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.

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

O'Neil, M. J. and Poole, J. C. 2016. Nova Scotia diorite database: Nova Scotia Department of Natural Resources, Digital Product ME 3, version 5. <http://www.gov.ns.ca/nr/nrb/download/diorite03.asp>

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/nr/nrb/download/diorite02.asp> [ISBN:18752]

<sup>1</sup> Internal Search Number (ISN) is a unique identifier used in Novascotia - the Nova Scotia Geoscience Maps and Publications Database. The ISN can be used to retrieve a digital version of the base station - <http://novascotia.ca/nr/nrb/>

