

LEGEND*

Code	Unit name	Unit name	Unit Terrane or Assemblage Code:
DC - ECWhc	Carrolls Corner Formation		DC - Late Devonian, Carboniferous & Mesozoic
AT - nPfb	Stewart Brook Formation		AT - Aspy Terrane
BT - nPfb	Pembroke Lake Monzogranite		BT - Bras d'Or Terrane
DC - ECWhc	Carrolls Corner Formation		DC - ECWhc - Carrolls Corner Formation

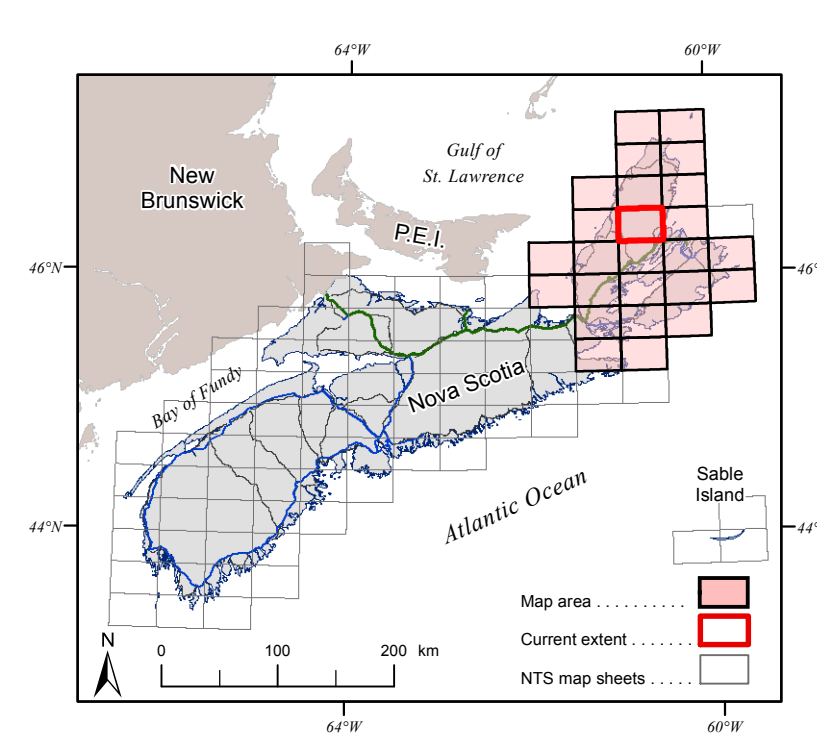
DC - MChm - Hastings Formation	AT - nPfb - Stewart Brook Formation
DC - ECWhi - Hood Island Formation	AT - nPfb - Pembroke Lake Monzogranite
DC - ECWhm - Upper Middle Windsor Group (undivided)	AT - nPfb - Farm Brook Granodiorite
DC - ECWhl - Lower Middle Windsor Group (undivided)	BT - Dh - Highlands Microdiorite
DC - ECWhm - Macumber Formation	BT - MLCKmmg - Kellys Mountain Granite - monzogranite
DC - ECWhu - Horton Group (undivided)	BT - MLCKmm - Kellys Mountain Granite - leucomonzogranite
DC - EChs - Ainslie Formation	BT - MLCSa - St. Anns Leucogranite
DC - EChc - Creighton Formation	BT - Ebr - Baddeck River Granodiorite
DC - LDfbu - Fislet Brook Formation (undivided)	BT - Ebp - Birch Plain Granite
AT - LDbbmg - bothan Brook Pluton	BT - Ecm - Cross Mountain Granite
AT - LDgmg - Gillanders Mountain Pluton - syenogranite	BT - Egl - Glesborne Flowage Quartz Diorite
AT - LDmag - Margaree Pluton	BT - Ego - Goose Cove Brook Granodiorite
AT - LDpb - Peters Brook Pluton	BT - Eib - Indian Brook Granodiorite
AT - LDsmg - Sugarloaf Granite - monzogranite	BT - Eir - Ingonish River Tonalite
AT - LDsmg - Sugarloaf Granite - muscovite-biotite monzogranite	BT - Ekr - Kathy Road Dioritic Suite
AT - LDwb - West Branch North River Granite	BT - Ekx - Kellys Mountain Diorite
AT - EDIm - Leonard MacLeod Brook Plutonic Suite	BT - Ekb - Kerns Brook Granite/Granodiorite
AT - SDeb - Easach Ban Complex	BT - Embgd - Murray Brook Granodiorite
AT - SDgb - dills Brook Diorite	BT - Emm - Murray Mountain Quartz Monzodiorite
AT - SDIad - Lake Ainslie Pluton - diorite	BT - Enb - North Branch Baddeck River Leucotonalite
AT - Sfb - Lavis Brook Diorite	BT - Esc - Snake Cat Lake Granodiorite
AT - Smbgd - MacLean Brook Granodiorite	BT - Etl - Timber Lake Dioritic Suite
AT - Sfb - Taylors Barren Pluton	BT - Ewc - Wreck Cove Dioritic Suite
AT - Sbrms - sarach Brook Metamorphic Suite	BT - nPpp - Price Point Formation
AT - OSmr - Middle River Metamorphic Suite	BT - nPfb - Ingonish Beach Gneiss
AT - OSPbcb - Belle Cote Road Orthogneiss	BT - nPGrbr - Barachois River Formation
AT - OSPbf - First Fork Brook Gneiss	BT - nPGrmfc - McMillan Flowage Formation - middle clastic member
AT - C.Jbc - jumping Brook Metamorphic Suite (undivided)	BT - nPGrmfq - McMillan Flowage Formation - quartzite lens
AT - C.Jbc - Corney Brook Formation	BT - nPGrmfc - McMillan Flowage Formation - lower clastic member
AT - C.Jfb - Fairbairn Brook Formation	BT - nPCKm - Kellys Mountain Gneiss
AT - nPCKmb - Salt 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	Rock in water
Drillhole (after O'Neill et al., 2016)	Trans Canada highway
Mineral occurrence (modified after O'Neill et al., 2016)	Highway
Artery highway (CT = Cabot Trail Hwy 30)	Collector highway
Local road	Seasonal, restricted or private road
Trail, track	Railway (active, inactive)
Bedding: tops known (inclined, vertical)	River, stream
Bedding: tops unknown (inclined, vertical)	Boundary (county, inter-provincial)
Fold axis (see note, 1:500,000 scale)	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 Henrick 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 Geospatial 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 Peterson (1988), Barr et al. (1986, 1992), Farrow (1989), Ham (1997), Home (1996), Jamieson and Doucet (1983), Lynch et al. (1995), Macdonald and Barr (1985), O'Neill (1996), Price (1997), Starnan (2015) and Starnan et al. (2016). 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 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 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 Reaside for reviewing the maps and providing many helpful comments.

Nova Scotia Department of Natural Resources
Geoscience and Mines Branch
Open File Map ME 2017-023

**Bedrock Geology Map of the
St. Anns Harbour Area, NTS 11K/07,
Inverness 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 St. Anns Harbour area, NTS 11K/07, Inverness and Victoria Counties, Nova Scotia: Nova Scotia Department of Natural Resources, Geoscience and Mines Branch, Open File Map ME 2017-023, 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

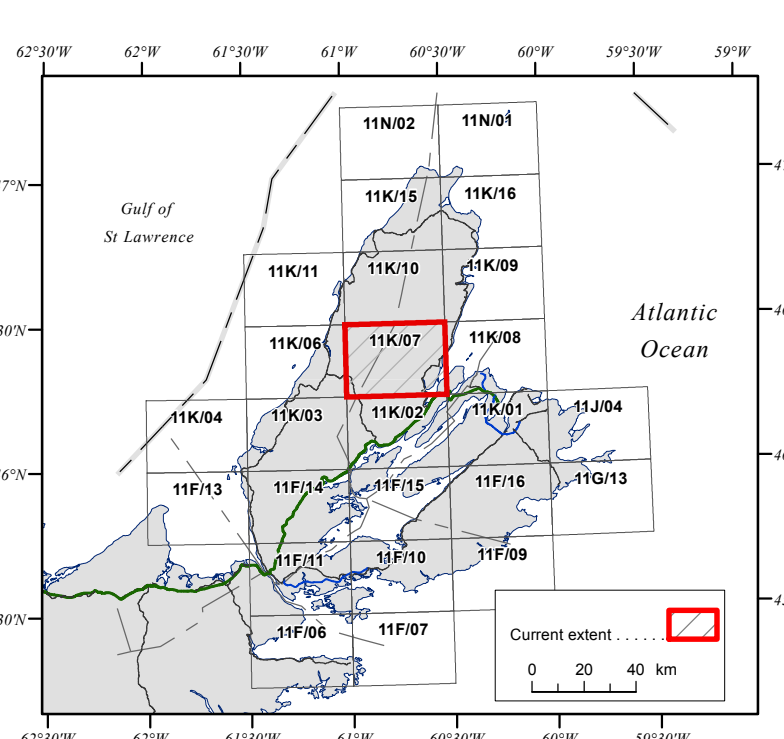
For a complete list of references please refer to Open File Report ME 2017-002.

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/nat/mdb/downloaddp003.asp> [ISBN: 185555]

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: 187552]

* Internet 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 listed citation. <http://novascotia.ca/nat/mdb/>



Open File Map ME 2017-023
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