

**LEGEND\***

| Code       | Unit name                 | Unit name   |
|------------|---------------------------|---|
| DC - ECWcc | Carrolls Corner Formation | Unit Terrane or Assemblage Code:<br>DC - Late Devonian, Carboniferous & Mesozoic<br>AT - Aspy Terrane<br>BT - Bras d'Or Terrane<br>MT - Mira Terrane<br>BR - Blue River Inlier<br>CP - Cape Porcupine Complex |

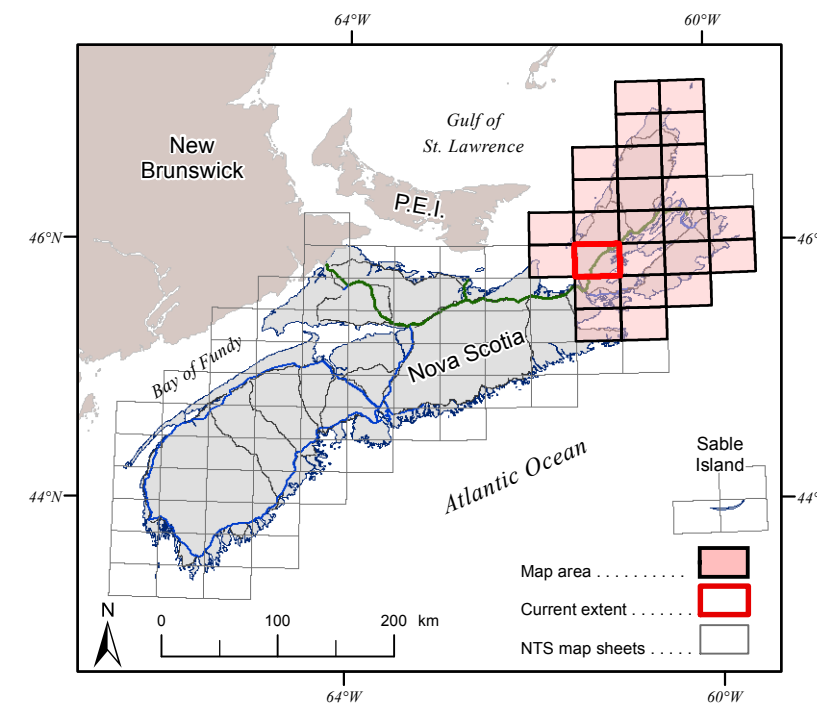
|   |   |
|---|---|
| DC - Kc - Chaswood Formation                                    | BT - Echg - Creignish Hills Pluton - monzogranite               |
| DC - TJa - Ashfield Formation                                   | BT - Echg - Creignish Hills Pluton - granodiorite               |
| DC - LCCPH-c - Colindale Member                                 | BT - Ect - Creignish Hills Pluton - tonalite                    |
| DC - LCCPH-m - Margaree Member                                  | BT - Elm - Lewis Mountain Pluton - diorite                      |
| DC - MCMp - Pomquet Formation                                   | BT - Elm - Lewis Mountain Pluton - tonalite                     |
| DC - MCMh - Hastings Formation                                  | BT - Emgd - Marble Mountain Pluton - granodiorite               |
| DC - ECWu - Windsor Group (undivided)                           | BT - Emgd - Marble Mountain Pluton - biotite granodiorite       |
| DC - ECWh - Hood Island Formation                               | BT - Emb - Mill Brook Quartz Diorite                            |
| DC - ECWum - Upper Middle Windsor Group (undivided)             | BT - Emd - River Denys Tonalite                                 |
| DC - ECWim - Lower Middle Windsor Group (undivided)             | BT - Esmgd - Sky Mountain Quartz Diorite                        |
| DC - ECWc - Carrolls Corner Formation                           | BT - Ewb - West Bay Pluton                                      |
| DC - ECWm - Macumber Formation                                  | BT - nPGRar - Aberdeen Ridge Formation                          |
| DC - ECWA - Ainslie Formation                                   | BT - nPGRbb - Blues Brook Formation - slate                     |
| DC - ECHac - Steep Creek Formation                              | BT - nPGRbb - Blues Brook Formation - marble                    |
| DC - ECHs - Strathlorne Formation                               | BT - nPGRbb - Blues Brook Formation - quartzite                 |
| DC - ECHj - Strathlorne Formation - Judique Facies              | BT - nPGRbb - Blues Brook Formation - volcanic                  |
| DC - ECHc - Creignish Formation                                 | BT - nPGRbb - Blues Brook Formation - metasediments             |
| DC - ECHg - Grantmire Formation                                 | BT - nPGRbb - Blues Brook Formation - pelitic schist            |
| DC - LDbr - Fisset Brook Formation - rhyolite                   | BT - nPGRbb - Blues Brook Formation - quartz-feldspathic schist |
| BT - Dw - Whycomagh Mountain Pluton                             | BT - nPGRm - Malagawatch Formation                              |
| BT - SDmb - McAskill Brook gabbro                               | BT - nPBth - Lime Hill Gneiss Complex                           |
| BT - Ebbgd - Big Brook Granodiorite                             | BT - nPBom - Melford Formation                                  |
| BT - Eb - Bucklaw Pluton  | BT - nPBsm - Sky Mountain Metamorphic suite                     |
| BT - EChfm - Creignish Hills Pluton - fine grained monzogranite |   |

\* 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'Reilly et al., 2016)                   | Trans Canada highway                 |
| Mineral occurrence (modified after O'Reilly et al., 2016) | Highway                              |
| Artery (arterial) (CT = Cabot Trail Hwy 30)               | Collector highway                    |
| Local road  | Seasonal, restricted or private road |
| Trail, track  | Trail, track                         |
| Railway (active, inactive)                                | Railway (active, inactive)           |
| River, stream   | River, stream                        |
| Boundary (county, inter-provincial)                       | Transmission line                    |
| Geological contact  | Cape Breton Highlands National Park  |
| Fault   | Wetlands                             |
| Thrust fault  | Dam                                  |
| Major coal seam (after Hennek and Calder, 2017)           | Lake, ocean                          |
| 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 Campbell (1991), Justino (1991), Swanton (2010), White and Boehner (2008) and White et al. (1990, 2010). 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 Chris Puhani did much of the digitizing of original field locations from 1:100,000 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 Raeside for reviewing the maps and providing many helpful comments.

Nova Scotia Department of Natural Resources  
Geoscience and Mines Branch  
Open File Map ME 2017-013

### Bedrock Geology Map of the Whycomagh Area, NTS 11F/14, Inverness County, 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**

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**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.

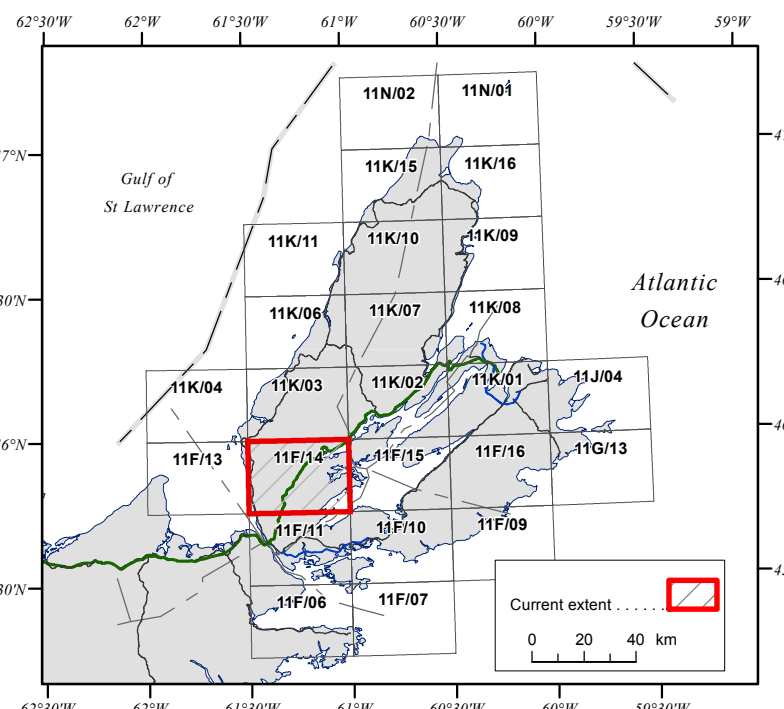
Barr, S. M. and White, C. E., 2017. List of compilation sources for bedrock geology maps of Cape Breton Island, Nova Scotia (Open File Maps ME 2017-006 to 2017-031). Nova Scotia Department of Natural Resources, Open File Report ME 2017-002, 7 p.

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

O'Reilly, E. W. and Proke, 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/nrb/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/nat/nrb/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 listed citation. <http://novascotia.ca/nat/nrb>



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