



Revisions Presented in OFM 2021-003, Revised Edition

Revisions were made to one map in the series compiled to show the bedrock geology for Cape Breton Island, released in 2017. Open File Map ME 2017-010 was revised, and has been released as a new edition, Open File Map ME 2021-004. The revised edition is now listed on this overview map.

Descriptive Text

This overview map shows bedrock geology and map locations for the Cape Breton Island compilation project. The compilation series consists of 25 1:50 000 scale bedrock maps and a corresponding master legend. The 352 map units are arranged in the legend in six assemblages based on age and/or terrane as displayed in the inset map above. A seamless digital data product is available via download or online map service (DP 433).

Details of the geology are displayed on the Open File Maps 2017-007 to 2017-016, 2017-020 to 2017-021, revised edition Open File Map 2021-004 and in the digital product. Each map contains a brief legend, listing the units on that map, arranged by age and/or terrane assemblage. Detailed unit descriptions are provided on the master legend (Open File Illustration 2017-001).

Map information was compiled from many sources, and a complete source list is available in Open File Report 2017-022. In compiling the maps and legend, unit names and ages were taken mostly 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 incoherence, that are not the work of the compiler.

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°W 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 map derived from a 25 m digital elevation model of the Province of Nova Scotia, DP ME 56, version 2, 2006. Azimuth of 310°, sun angle of 45° and a vertical exaggeration of 5.

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 as an index map only. Not for use as a geological map at 1:220 000 scale.

Nova Scotia Department of Energy and Mines
Geoscience and Mines Branch - Geological Survey Division

Open File Map ME 2021-003

**Overview Map Showing Locations of
Bedrock Geology Maps for
Cape Breton Island, Nova Scotia**

Revised Edition

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

Scale 1:220 000

5 0 5 10 15 20 km

Halifax, Nova Scotia
2021

Open File Map ME 2021-003, scale 1:220 000.

Acknowledgments

We thank the numerous individuals who have contributed over many decades to the geological knowledge of Cape Breton Island, not only those cited in the reference list but those who worked in the area before them and formed the basis for their work. We especially acknowledge and thank Becky Jameson, Alan Macdonald and Rob Rasmussen for their contributions to mapping and their insightful discussions about Cape Breton Island geology. Karen Johnson, Dallas MacIsaac, and Christa Putnam did much of the digitizing of original field locations from 1:10 000 orthophoto base maps. We thank Angie Barras, David Hogwood and Jeff McKinnon for their help in producing these maps and the associated databases. Sandra Barr acknowledges the long-term support of her employer Acadia University, in her research in Cape Breton Island, and that of the Natural Sciences and Engineering Research Council of Canada. We thank Rob Rasmussen for reviewing the maps and providing many helpful comments.

Recommended Citation

Barr, S. M. and White, C. E. 2021. Overview map showing locations of bedrock geology maps for Cape Breton Island, Nova Scotia. Revised Edition; Nova Scotia Department of Energy and Mines, Geoscience and Mines Branch Open File Map ME 2021-003, scale 1:220 000.

Symbols

Geological contact: ————
Fault: - - - - -
Map series index: []
Trans Canada Highway: []
Highway: []
Arterial Highway (CT = Cabot Trail Hwy 30): []
Collector Highway: []
Boundary (county, inter-provincial): []
Lake, ocean: []

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 Map ME 2017-006 to 2017-031. Nova Scotia Department of Natural Resources, Open File Report ME 2017-002, 7 p.



Open File Map ME 2021-003
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