

This map series shows the extent of the North Mountain Formation, which is a This is an overview map (scale 1:200 000) for the 5 bedrock geology maps (scale Shaded relief image derived from a 5 m LiDAR bare-earth Digital Elevation Model laterally continuous unit of basalt outcropping semicontinuously for about 200 km 1:50 000) of the North Mountain Formation, OFM ME 2010-8 to 2010-12. from Cape Split in the east to Brier Island in the west. The basalt is sandwiched between Triassic age clastic sedimentary rocks of the Blomidon and Scots Bay GIS databases, cartography and reproduction by Angie Ehler, Brian Fisher, John individual surveys dating back to 2000. The Annapolis Valley section of the North formations. (Note: The Blomidon Formation is not shown on this map series. See MacNeil and Jeff McKinnon of the Nova Scotia Department of Natural Mountain was acquired by the Applied Geomatics Research Group with funding Keppie (2000) for location). The North Mountain Formation consists of three Resources, Geoscience Information Services Section, 2010. The GIS databases from the Canada Foundation for Innovation (2000, 2003, 2004). The Digby Neck, members which are arranged in a conformable, layer-cake stratigraphy dipping gently (2-5°) towards the Bay of Fundy; however, more irregular dips locally occur in the middle member (Transm) owing to the inflation of individual Universal Transverse Mercator Projection (UTM), Zone 20, Central Meridian Natural Resources Canada (2006). pahoehoe-type flows during formation. Importantly, zeolites are common in the 63°00' West. members and in the case of the middle member (Themm) pervasive. Full details of previous work, zeolite occurrences and formation and the physical volcanology are found in the selected references given on maps OFM ME 2010-8 to 2010-12.

and map were developed using ArcGIS® 9.3.

North American Datum (NAD) 1983 Canadian Spatial Reference System (CSRS)

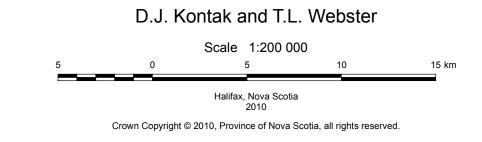
Base and digital data derived from the Nova Scotia Topographic Database nongovernment sources. The Nova Scotia Department of Natural Resources (NSTDB), Copyright Her Majesty the Queen in Right of the Province of Nova does not assume any liability for errors that may occur. This map is intended for Scotia. The NSTDB is available from Service Nova Scotia and Municipal use as an overview map only at the published scale of 1:200 000. Relations (SNSMR), Land Information Services Division (LIS), Nova Scotia Geomatics Centre (NSGC), Amherst, Nova Scotia.

of the North Mountain area, Nova Scotia, DP ME 455, Version 1, 2010. Azimuth of 315° and sun angle of 45°. Compiled by T. Webster. Composite of several Long Island and Brier Island sections were acquired by the Applied Geomatics Research Group with funding from the Geological Survey of Canada (Atlantic),

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

# Nova Scotia Department of Natural Resources Mineral Resources Branch Open File Map ME 2010-7

Overview Map for the Bedrock Geology Maps of **Basaltic Rocks of the North Mountain Formation** from Brier Island to Cape Split, Nova Scotia



Cirilli, S., Marzoli, A., Tanner, L., Bertrand, H., Buratti, N., Jourdan, F., Bellieni, G., Kontak, D. and Renne, P. R. 2009: Latest Triassic onset of the Central Atlantic Magmatic Province (CAMP) volcanism in the Fundy Basin (Nova Scotia): new stratigraphic constraints; Earth and Planetary Science Letters, v. 286, p. 514-525.

Keppie, J. D. (compiler) 2000: Geological map of the Province of Nova Scotia; Nova Scotia Department of Natural Resources, Minerals and Energy Branch, Map ME 2000-1, scale 1:500 000.

Webster, T. L. 2010: Shaded relief image derived from a 5 m LiDAR bare-earth Digital Elevation Model of the North Mountain area, Digby, Annapolis and Kings Counties, Nova Scotia; Nova Scotia Department of Natural Resources, Digital Product ME 455, Version 1; <a href="http://www.gov.ns.ca/natr/meb/download/dp455.asp">http://www.gov.ns.ca/natr/meb/download/dp455.asp</a>

# Recommended Citation

Kontak, D.J. and Webster, T.L. 2010: Overview map for the bedrock geology maps of basaltic rocks of the North Mountain Formation from Brier Island to Cape Split, Nova Scotia; Nova Scotia Department of Natural Resources, Mineral Resources Branch, Open File Map ME 2010-7, scale 1:200 000.



# LiDAR survey area (Webster, 2010) .

