

- ### LEGEND
- #### DEVONIAN
- MUSQUODOBOIT BATHOLITH**
- DImf** Leucomonzon granite: buff, white, pink and red, fine- to medium-grained with minor coarse grained phenocrysts (plagioclase, alkali feldspar, biotite, cordierite), locally porphyritic to equigranular; biotite (4-8%), muscovite (trace-1%) cordierite (trace-1%), minor pegmatite pods developed
 - DImh** Leucomonzon granite: buff and pink, fine- to coarse-grained, slightly porphyritic to equigranular; characterized by heterogeneous texture (porphyritic, aplitic, pegmatitic) and mineralogical variability (increase in muscovite content, decrease in biotite content); biotite (4-8%), muscovite (trace-4%), cordierite (trace-2%)
 - DIm** Leucomonzon granite: buff, white and pink, medium- to coarse-grained, seriate to megacrystic (5-15%), biotite (4-8%, average 6%), muscovite (trace-1%), cordierite (trace-1%)
 - DImg** Muscovite-biotite monzonite: buff, white and pink, medium- to coarse-grained, seriate to megacrystic (5-15%), biotite (6-12%, average 8%), muscovite (trace-1%), cordierite (trace-1%), metasedimentary xenoliths (5 cm to 1 m) common
- #### CAMBRIAN-ORDOVICIAN
- ##### MEGUMA GROUP
- HALIFAX FORMATION**
- COH** Undivided slate-metasilstone, metasandstone and slate
- GOLDENVILLE FORMATION**
- COG** Undivided metasandstone, green metasilstone and minor slate

- ### Symbols
- Outcrop, area of outcrop, boulder (float)
 - Bedding (inclined, vertical, tops unknown, overturned)
 - Cleavage (inclined, vertical)
 - Vein (inclined, vertical)
 - Dyke (inclined, vertical)
 - Quartz vein
 - Joint (inclined, vertical)
 - Layering (vertical)
 - Trace of anticline
 - Trace of syncline
 - Fault (approximate)
 - Geological contact (approximate or assumed)
 - Preferred orientation of feldspar megacrysts
 - Mineral occurrence (Name and commodities indicated on top; number on bottom from Nova Scotia Department of Natural Resources Mineral Occurrence database; commodities indicated are: Au - gold; Cu - copper; Fe - iron; Mn - manganese; Mo - molybdenum; Pb - lead; U - uranium; W - tungsten; Zn - zinc)
 - Diamond-drill hole (Number from Nova Scotia Department of Natural Resources Drillhole database)

MAP NOTES

Geology of the Musquodoboit Batholith by L.J. Ham (1999).

Geology of the Meguma Group was compiled mainly from E. R. Faribault, Geological Survey of Canada maps, 1 inch to 1 mile, Map numbers 39, 40, 50, 51 and 52. This compilation work includes outcrop locations, structural information and quartz veins (illustrated in pink with qtz vein written beside the symbol). Additionally, all anticline and syncline information, including the names of the structures, was also directly compiled from Faribault. Minor additional compilation of the Meguma Group rocks was taken from company assessment reports.

Data entry by L. J. Ham and P. Teniere.

Base map was derived from Nova Scotia digital topographic database, 1:10 000 mapping series 3rd MTM, ATS 77.

Geological symbology was generated by Fieldlog V3.0 Beta (B. Brodrick, Geological Survey of Canada).

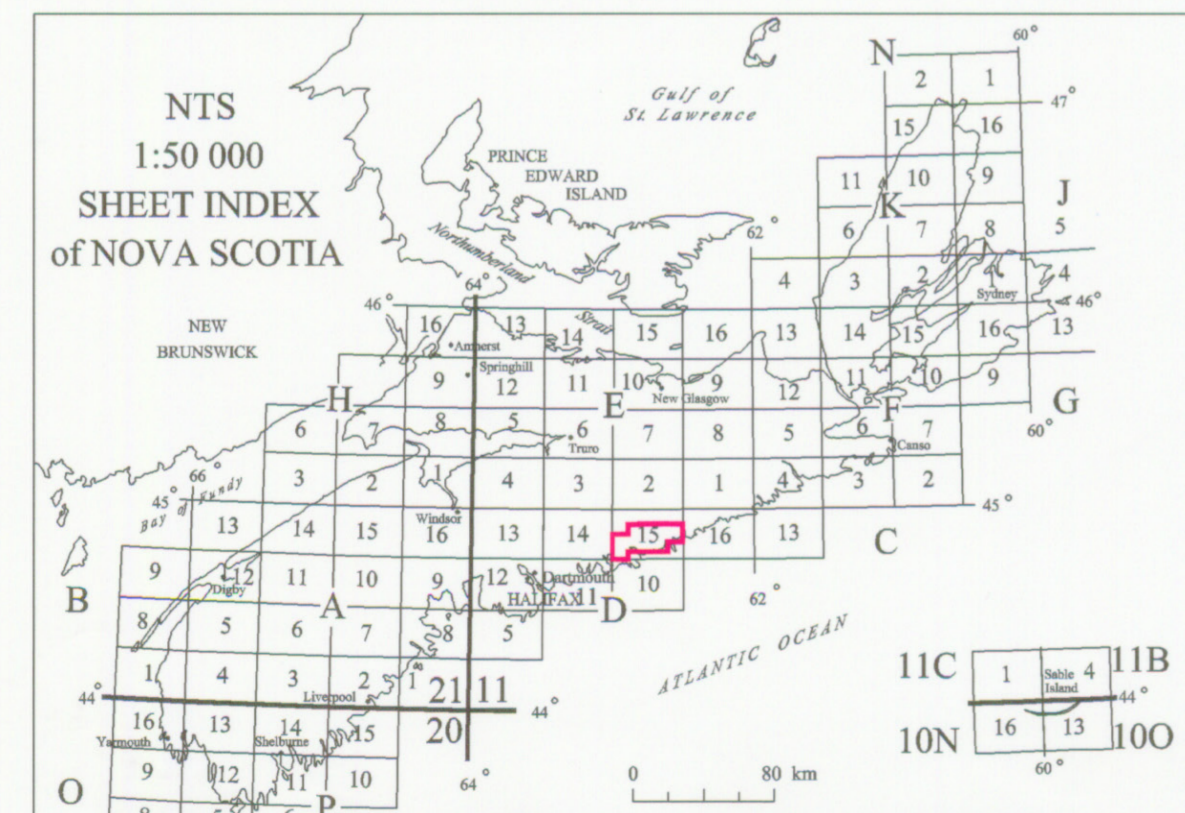
Lakes were selectively chosen to have no fill (or white colour) by the author. The software had no capability for not filling lakes with the colour chosen for the underlying rocks, and, therefore, necessitated individually having the base colour filled around them. Time constrained the number of lakes chosen for no fill and some of the smaller lakes and rivers are, therefore, coloured with the surrounding rock colour.

Symbol orientation relative to grid north; approximately 1^o E.

Locations of mineral occurrences and diamond-drill holes were taken from the Nova Scotia Department of Natural Resources (NSDNR) Mineral Occurrence database and Drillhole database, respectively. The locations of most, but not all, drill holes were verified from company assessment information filed with the NSDNR library; in areas of particularly high density drilling, some of the drill hole locations were not verified.

Suggested Citation:

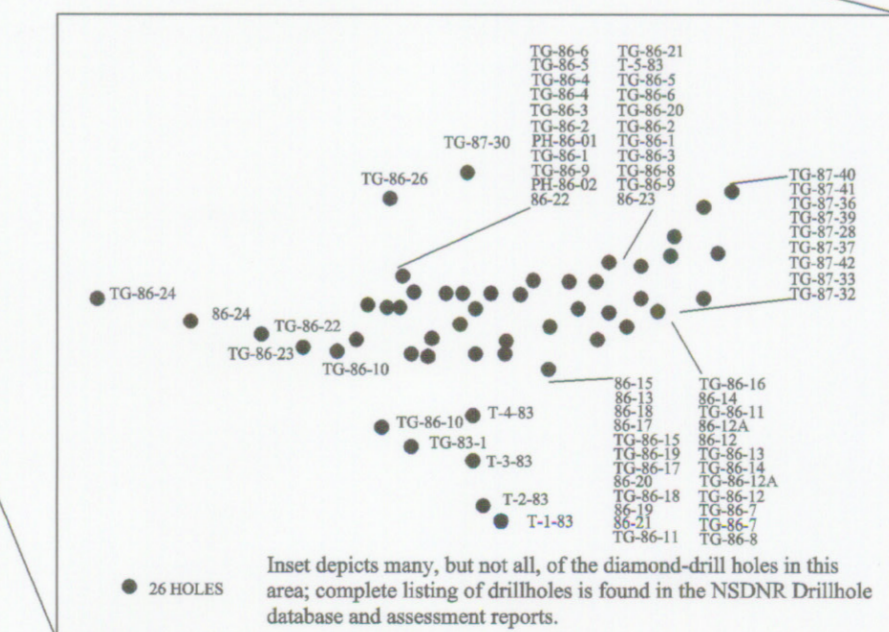
Ham, L.J. 1999: Geological map of Musquodoboit Batholith (part of NTS sheet 11D/15), Halifax County, Nova Scotia; Nova Scotia Department of Natural Resources, Minerals and Energy Branch, Open File Map ME 1999-3, scale 1:50 000.



Index map of Nova Scotia digital topographic database, 1:10 000 scale map series for NTS sheet 11D/15

Numerous diamond-drill holes in this area; listed in NSDNR Drillhole database

10 44 9500 63 900	10 44 9500 63 800	10 44 9500 63 700	10 44 9500 63 600	10 44 9500 63 500
10 44 9000 63 900	10 44 9000 63 800	10 44 9000 63 700	10 44 9000 63 600	10 44 9000 63 500
10 44 8500 63 900	10 44 8500 63 800	10 44 8500 63 700	10 44 8500 63 600	10 44 8500 63 500
10 44 8000 63 900	10 44 8000 63 800	10 44 8000 63 700	10 44 8000 63 600	10 44 8000 63 500
10 44 7500 63 900	10 44 7500 63 800	10 44 7500 63 700	10 44 7500 63 600	10 44 7500 63 500



Inset depicts many, but not all, of the diamond-drill holes in this area; complete listing of drillholes is found in the NSDNR Drillhole database and assessment reports.

Nova Scotia Department of Natural Resources
Minerals and Energy Branch

OFM ME 1999-3
Geological map of
MUSQUODOBOIT BATHOLITH
(Part of NTS SHEET 11D/15)
Halifax County
NOVA SCOTIA
L.J. Ham

Scale 1 : 50 000

0 5 10
kilometres
Nova Scotia digital topographic database
1:50 000 scale map
series map

Nova Scotia Department of Natural Resources
Halifax, Nova Scotia
1999