

LEGEND

Map units shown by uncoloured legend blocks do not appear on this map

- QUATERNARY**
PLEISTOCENE AND RECENT
- 29 Sand and gravel
- CARBONIFEROUS**
- UPPER CARBONIFEROUS**
PICTOU GROUP
- 28 Light grey medium- to coarse-grained arenite and wacke and minor conglomerate
- CUMBERLAND GROUP**
- 27 Medium grey fine-grained wacke, siltstone and silty shale with calcareous layers, minor greyish red siltstone. 26A LEBROCK FORMATION: greyish red and greenish grey wacke, siltstone and conglomerate, greyish red and light grey mudstone, siltstone and minor red conglomerate
- LOWER CARBONIFEROUS**
- WINDSOR GROUP**
- 25a Medium grey argillaceous limestone, oolitic limestone and minor calcareous shale; 25b, 25c with gypsum and anhydrite. 25c, light grey and greenish red mudstone and siltstone, medium grey calcareous shale and argillaceous limestone, minor red conglomerate
- HORTON GROUP (25-26)**
- 24a Greyish red fine-grained micaceous wacke and siltstone, cobble conglomerate and amygdaloidal basalt and minor calcareous siltstone and argillaceous limestone. 24b, greyish red boulder conglomerate and micaceous wacke, (stratigraphic equivalent to 21, 22 & 23)
- 23 AINSLIE FORMATION: greyish red and greenish grey mudstone and siltstone. Greyish red pebble to boulder conglomerate (may be partly equivalent to 22)
- 22 STRATHLORNE FORMATION: medium to dark grey siltstone, shale and fine-grained quartz wacke. Minor black carbonaceous shale
- 21 CRAIGMISH FORMATION: light to medium grey fine- to coarse-grained quartz arenite and quartz feldspar arenite, dark grey siltstone and minor grit
- DEVONIAN AND EARLIER (?)**
- 20 Dark green fine- to medium-grained diabase
- 19 19a, light grey feldspar and muscovite granite, minor moderate orange pink granite; 19b, moderate red fine- to medium-grained granite
- LOWER DEVONIAN (Lower and Middle Devonian and Upper Devonian)**
- 18a KNOYDART FORMATION: 18a, greyish red mudstone, siltstone and fine-grained wacke; 18b, greyish red siltstone, fine-grained wacke and shale, greenish grey and greyish purple shale and argillite, minor calcareous mudstone
- (Gedmiian and Skila)
- 17 ARSAG GROUP (shaded)
Light to medium grey, bluish grey and greenish grey shale, siltstone and fine-grained wacke
- 16 STONEHOUSE FORMATION: bluish grey calcareous wacke and siltstone
- SILURIAN**
UPPER SILURIAN (Ludlow)
- 15a MOYDART FORMATION: greenish grey mudstone, wacke and siltstone, minor fragmental limestone, red calcareous mudstone at top of formation
- (Wentick)
- 14 MCADAM FORMATION: grey mudstone, wacke, shale, calcareous wacke, arenaceous limestone and dark grey nodular wacke
- 13 FRENCH RIVER FORMATION: bluish grey fine-grained wacke and mudstone
- LOWER SILURIAN (Middle and Upper Landover)**
- 12 ROSS BROOK FORMATION: dark grey mudstone and shale overlain by bluish grey interbedded mudstone and wacke
- (Lower Landover)
- 11 BEECHILL COVE FORMATION: greenish and bluish grey wacke and siltstone
- ORDOVICIAN**
UPPER ORDOVICIAN (?)
- 10 DUNN POINT VOLCANICS: red rhyolite and tuff and dark green amygdaloidal andesite and volcanic breccia
- LOWER ORDOVICIAN (?)**
- 9 GOLDENVILLE FORMATION: greenish grey to medium grey quartzite, quartz wacke and argillite, minor grey wacke and andesite and tephrite
- (Brown Mountain Group unranked)
- 8 8a, brownish grey medium-grained hornblende granite (in part calcalkalic) to syenite; 8b, pale red quartz feldspar granodiorite to granite and minor gneiss
- ORDOVICIAN AND LATER**
- 7 MALIGNANT COVE FORMATION: greyish red pebble to boulder conglomerate and wacke
- CAMBRO-ORDOVICIAN**
- 6 6a, dark greenish grey to black medium-grained diorite; 6b, dark greenish grey medium- to coarse-grained hornblende diorite; 6c, dark greenish grey medium-grained gabbro to diorite (may be intrusive equivalent to equivalent 5)
- 5 5a, light grey to light pinkish grey medium-grained hornblende gneiss (intrusive 1); 5b, pale red to light grey fine- to medium-grained granodiorite (intrusive 1 and possibly 2)
- BROWN MOUNTAIN GROUP (1, 2, 3 and 4)
- 4 LITTLE HOLLOW FORMATION: greenish red and dark grey siltstone and quartzite and minor ferruginous wacke
- 3 BIERLY BROOK FORMATION: 3a, dark green andesite, tuff and breccia and dark green and quartz red greywacke, wacke and minor laminated argillite; 3b, almost entirely andesite; 3c, light grey diorite included with 3a. Minor amphibolite near contact with intrusive bodies, in particular 5 and 8
- 2 BAXTER BROOK FORMATION: light olive grey to greenish grey laminated fine-grained siltstone and argillite, and tuff with minor interbedded dark green andesite
- 1 KEPOCH FORMATION: light grey to brownish grey and pale red leuco-diorite to rhyolite, argillaceous rhyolite and minor rhyolite breccia and tuff. Minor medium grey quartzite and black phyllite

- Rock outcrop
Outline of volcanic rock
Geological boundary (defined, approximate, assumed)
Bedding, tops known (horizontal, inclined, vertical, overturned)
Bedding, tops unknown (inclined, vertical)
Schistosity (inclined, vertical)
Foliation (inclined, vertical)
Joint (inclined, vertical)
Dip-slip (arrow indicates plunging)
Fault (defined, approximate, assumed)
Anticline (defined, arrow indicates direction of plunging)
Syncline (defined, arrow indicates direction of plunging)
Glacial moraine (direction of ice movement known, unknown)
Great deposit
Fossil locality
Spore sample
Quarry
Mineral occurrence
Age determination (in millions of years)
Diamond drill hole
Sink holes

MINERALS

Copper	Cu	Subsides	S
Optimum	opt	Zinc	Zn
Lead	Pb	Salt springs	SS

Geology by D. G. Benson 1962-1968

To accompany Memoir 378 by D. G. Benson

Geological cartography by the Geological Survey of Canada

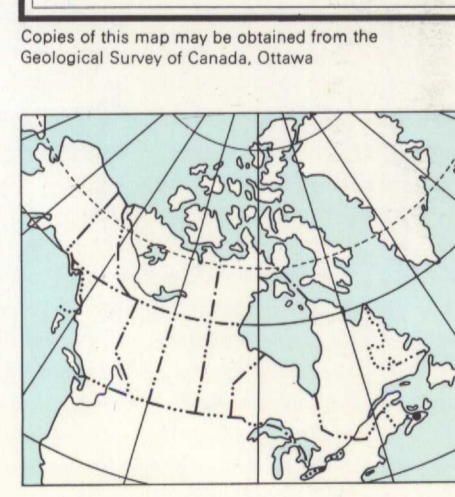
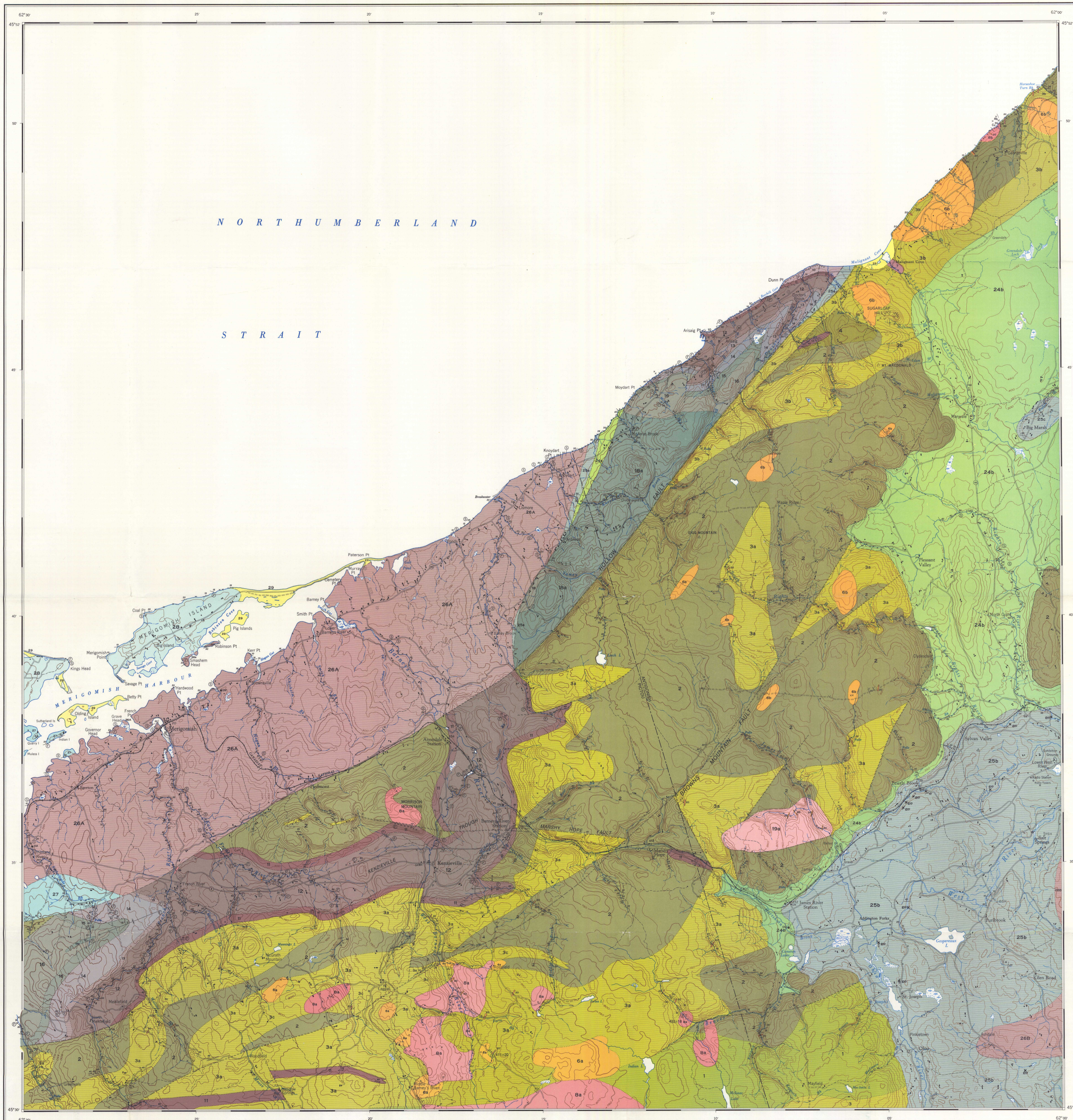
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map at the same scale published by the Army Survey Establishment, R.C.E. in 1953. Roads and drainage were revised by the Geological Survey of Canada for this edition.

Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources

Approximate magnetic declination 1973, 23° 27' W, decreasing at annually

Elevations in feet above mean sea-level



MAP 1961A
GEOLOGY
MERIGOMISH AND
MALIGNANT COVE
NOVA SCOTIA
Scale 1:50,000
Metres 1000 2000 3000
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11 610	11 616	11 622
11 616	11 622	11 628
11 622	11 628	11 634
11 628	11 634	11 640

NOVA SCOTIA
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