



LEGEND

- QUATERNARY**  
PLEISTOCENE AND RECENT
- 24 Sand and gravel
- CARBONIFEROUS**  
UPPER CARBONIFEROUS  
PICTOU GROUP (23)
- 23 Light grey medium- to coarse-grained arenite and wacke; minor conglomerate
- CUMBERLAND GROUP (22)
- 22 NEW GLASGOW CONGLOMERATE: medium greyish red pebble to cobble conglomerate and interbedded medium- to coarse-grained wacke
- CANSO (MABOU) GROUP (21A, 21B)
- 21A Greyish red and greenish grey wacke, siltstone and conglomerate
- 21B Greyish red and greenish grey wacke, siltstone and conglomerate; greyish red and light grey mudstone, siltstone and minor calcareous shale
- LOWER CARBONIFEROUS  
WINDSOR GROUP (20)
- 20 20a, medium grey argillaceous limestone, oolitic limestone and minor calcareous shale; 20b, light grey and greyish red mudstone and siltstone, medium grey calcareous shale and argillaceous limestone, minor red conglomerate, gypsum and anhydrite
- HORTON GROUP (19)
- 19 19a, greyish red fine-grained micaceous wacke and siltstone, cobble conglomerate and amygdaloidal basalt; 19b, greyish red boulder conglomerate and micaceous wacke, minor dark grey mudstone and argillaceous limestone
- DEVONIAN AND EARLIER (?)
- 18 18a, dark green fine- to medium-grained diabase dykes
- 17 17a, Moderate red medium- to coarse-grained granite and minor aplite dykes
- LOWER DEVONIAN
- 16 KNOYDART FORMATION: greyish red mudstone, siltstone and fine-grained wacke
- DEVONIAN (?) AND SILURIAN  
ARSAIG GROUP (15-15)
- 15 STONEHOUSE FORMATION: bluish grey calcareous wacke and siltstone
- SILURIAN  
UPPER SILURIAN
- 14 MOYDART FORMATION: greenish grey mudstone, wacke and siltstone, minor fragmental limestone; red concretionary mudstone at top of formation
- 13 MCADAM FORMATION: grey mudstone, calcareous wacke, arenaceous limestone and dark grey nodular wacke
- 12 FRENCH RIVER FORMATION: bluish grey mudstone and fine-grained wacke
- LOWER SILURIAN
- 11 ROSS BROOK FORMATION: dark grey mudstone and shale overlain by bluish grey interbedded mudstone and wacke
- 10 BEECHHILL COVE FORMATION: greenish and bluish grey wacke and siltstone
- UPPER ORDOVICIAN (?)
- 9 Dunn Point volcanics: red rhyolite and tuff and dark green amygdaloidal andesite and volcanic breccia
- ORDOVICIAN (?)
- 8 Brownish grey medium-grained hornblende granite (in part cataclastic)
- 7 MALIGNANT COVE FORMATION: greyish red pebble to boulder conglomerate and wacke
- ORDOVICIAN AND EARLIER
- 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. May be intrusive equivalent of volcanics of andesitic division (3)
- 5 Greyish red and dark grey siltstone and quartzite and minor ferruginous wacke
- BROWNS MOUNTAIN GROUP (1-4)
- ANDESTIC DIVISION: 3a, dark green andesite, tuff and breccia and dark green and dusky red greyswacke, wacke and minor laminated argillite; 3b, almost entirely andesite; 3c, light grey dacite. Minor amphibolite near contact with intrusive bodies, in particular 3
- 4 Undivided 2 and 3
- 2 LAMINATED SILTSTONE DIVISION: light olive grey to greenish grey laminated fine-grained siltstone and argillite, and tuff with minor interbedded dark green andesite
- 1 RHYOLITIC DIVISION: light grey to brownish grey and pale red rhyolite, porphyritic rhyolite and minor rhyolite breccia and tuff; medium grey quartzite and minor black phyllite

- Rock outcrop . . . . . x
- Outcrop of volcanic rock . . . . . v
- Geological boundary (defined, approximate, assumed) . . . . . - - - - -
- Bedding, tops known (horizontal, inclined, vertical, overturned) . . . . . + / / /
- Bedding, tops unknown (inclined, vertical) . . . . . / / /
- Schistosity (inclined, vertical) . . . . . // //
- Joint (inclined, vertical) . . . . . - - - - -
- Drag-fold (arrow indicates plunge) . . . . . ~ ~ ~
- Fault (defined, approximate, assumed) . . . . . - - - - -
- Anticline (defined, arrow indicates direction of plunge) . . . . . ^ ^ ^
- Syncline (defined, arrow indicates direction of plunge) . . . . . v v v
- Gravel deposit . . . . . [stippled]
- Fossil locality . . . . . (F)
- Spore sample . . . . . (S)
- Quarry . . . . . (Q)
- Mineral occurrence . . . . . (M)
- Age determination (in millions of years) . . . . . (A) 411 ± 20
- Sink holes . . . . . (SH) O

MINERALS

Copper . . . . . Cu Sulphides . . . . . S

Gypsum . . . . . GYP Zinc . . . . . Zn

Lead . . . . . Pb

Geology by D. G. Benson, 1964, 1965, 1966

Geological cartography by the Geological Survey of Canada

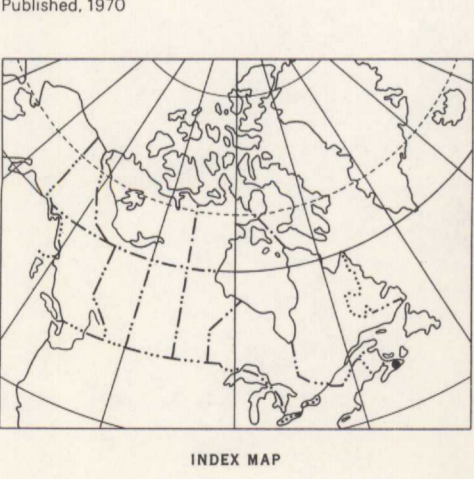
Approximate magnetic declination, 24°23' West, decreasing 2.1' annually

Geographical names subject to revision

Base-map assembled by the Geological Survey of Canada from maps published at the same scale by the Army Survey Est., R. C. E., in 1952 and 1953. Roads were revised by the Geological Survey of Canada for this edition

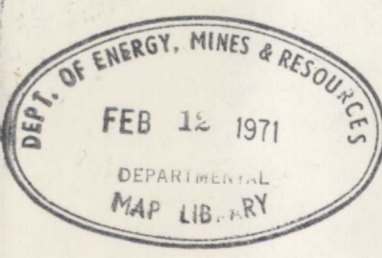
Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa

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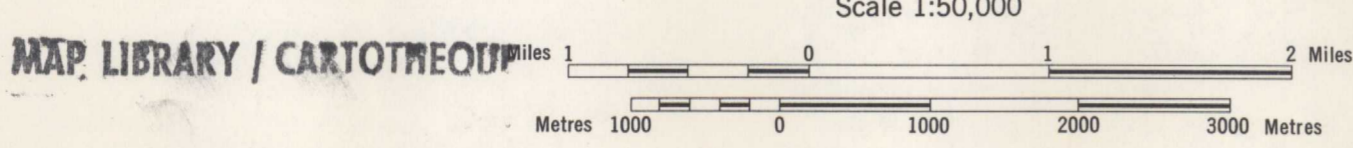


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MAP 4-1970  
PAPER 70-9  
GEOLOGY  
MERIGOMISH AND MALIGNANT COVE  
(East Halves)  
NOVA SCOTIA  
Scale 1:50,000



11E/5	11E/6	11E/3
11E/6	4-1970 11E/5	11E/1
11E/7	5-1970	11E/5
1215A	58-1963	27-1961



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS

MAP 4-1970  
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NOVA SCOTIA

4-1970