



GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

LEGEND

PRELIMINARY SERIES

N O R T H U M B E R L A N D
S T R A I T



- 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)
NEW GLASGOW CONGLOMERATE: medium greyish red pebble to cobble conglomerate and interbedded medium- to coarse-grained wacke
- 21A CANSO (MABOU) GROUP (21A, 21B)
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)
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)
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 (?)
18a Dark green fine- to medium-grained diabase dykes
17 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
ARISAIG GROUP (10-15)
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
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)
ANDESITIC DIVISION: 3a, dark green andesite, tuff and breccia and dark green and dusky red greywacke, wacke and minor laminated argillite; 3b, almost entirely andesite; 3c, light grey dacite. Minor amphibolite near contact with intrusive bodies, in particular 8
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) ZZ
Joint (inclined, vertical) ||
Drag-fold (arrow indicates plunge) N
Fault (defined, approximate, assumed) - - - - -
Anticline (defined, arrow indicates direction of plunge) ~
Syncline (defined, arrow indicates direction of plunge) ~
Gravel deposit []
Fossil locality (F)
Spore sample (S)
Quarry (Q)
Mineral occurrence Zn x
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

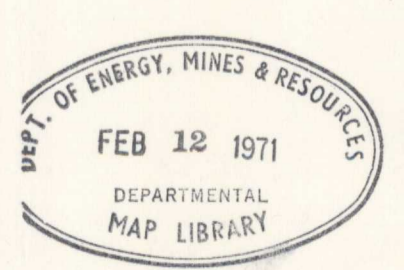
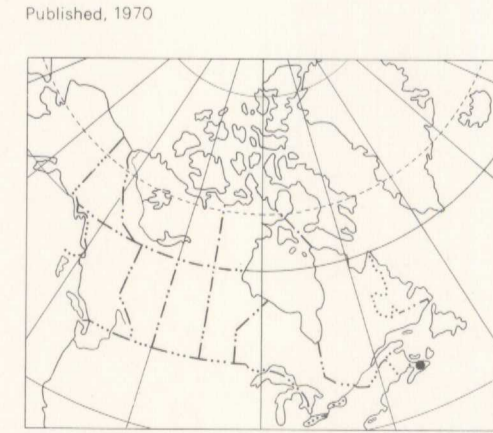
Geological cartography by the Geological Survey of Canada

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

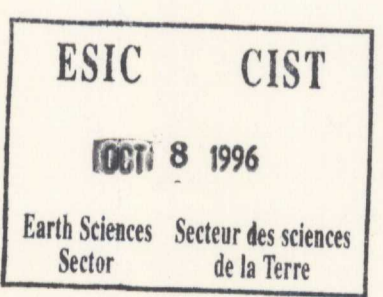
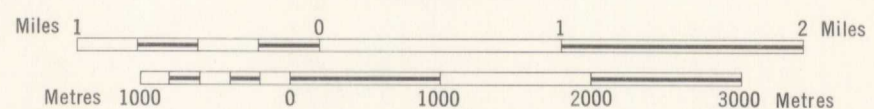
Geographical names subject to revision

Base-map at the same scale published by the Army Survey Est., R. C. E., in 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



MAP 5-1970
PAPER 70-9
GEOLOGY
MERIGOMISH
(West Half)
NOVA SCOTIA
Scale 1:50,000



3401
1956
G4
amvsc

11E/5	11E/6	11E/13
11E/10	4-1970 11E/9	11F/12
11E/7	5-1970	11F/5
1215A	58-1963	27-1961

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

MERIGOMISH
(West Half)
NOVA SCOTIA

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5-1970

5-1970

612 copy 1900C

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