

- LEGEND**
- PROTEROZOIC**
- 17 Limestone
- 16 Diabase *H. 1014, 110*
- SOUTHERN PROVINCE**
- 14 Granite, aplite
- 13 NIPESING DIABASE: metabasite, metagabbro; *13a, granophyre*
- HURONIAN**
- 12 HURONIAN UNCLASSIFIED
- Siltstone, argillite, dolomite
- 11 CORALY GROUP (9-11)
- BAR RIVER FORMATION: white orthoquartzite, buff, grey, and black siltstone; 11a, interbedded white quartzite and variegated siltstone
- 10 GORDON LAKE FORMATION: variegated siltstone, subordinate quartzite and argillite
- 9 LORRAIN FORMATION: 9a, pink, buff, greenish or brownish arkose conglomerate; 9b, green to white feldspathic quartzite, arkose; 9c, medium- to coarse-grained orthoquartzite; 9d, peck or flesh coloured quartzite; 9e, cherty or fine-grained orthoquartzite
- 8 GOUGANDA FORMATION: greywacke paragonomeroite, conglomerate, quartzite, argillite, and siltstone; 8a, basal member, mainly paragonomeroite; 8b, upper laminated argillite member
- 7 QUIRRE LAKE GROUP (6-7)
- SEKENT FORMATION: feldspathic quartzite, arkose, subgreywacke; 7a, arkose
- 6 ESPANOLA FORMATION: calcareous siltstone, dolomite, limestone; 6a, limestone, dolomite; 6b, calcareous siltstone, sandstone; 6c, dolomite
- 5 BRUCE FORMATION: buff-weathering quartzite paragonomeroite
- 4 HOUGH LAKE GROUP (3-4)
- MISSISSAUGI FORMATION: feldspathic quartzite
- 3 PECORS FORMATION: subgreywacke, quartzite, argillite
- 2 RAMSAY LAKE FORMATION: quartzose polymict paragonomeroite
- ELLIOT LAKE GROUP
- 1 M'KIM FORMATION: subgreywacke, argillite
- GRENVILLE PROVINCE**
- 10 KONOIS GNESSES (8-10)
- Orthogneiss, unclassified; strongly-foliated, pink to grey, commonly biotite or hornblende coarse-grained rocks
- 9 Granite gneiss, including numerous remnants of layered gneiss (1); 9a, pink, medium- to coarse-grained, commonly biotite, granite or syenite gneiss; 9b, pink to red, mostly coarse-grained, syenite to monzonite gneiss; 9c, mainly medium- to coarse-grained monzonite; 9d, fine-grained, weakly foliated, mostly porphyritic granite gneiss
- 8 Grey, medium- to coarse-grained, variably foliated rocks, probably granulite facies for the most part; 8a, interbedded granulitic and granitic rocks
- GRENVILLE FRONT GRANITES (6-7)
- 7a, coarse-grained, pink, mainly porphyritic (potash feldspar) granite or syenite, commonly biotite; 7b, pink, buff or grey granite and syenite, younger than 8; 7c, coarse-grained, commonly biotitic granite to diorite; 7d, medium-grained buff-weathering granite, younger than 7a, other age relations unknown ("new granite"); 7e, complex of mixed granite types, including 7a and 7d
- 6 Granite pegmatite mixed with various components of 1, 2 and 7
- GNESSES DERIVED FROM SEDIMENTARY OR VOLCANIC ROCKS (1-5)
- 5 Metagonomeroite: dark grey, biotite gneiss with scattered pebbles
- 4 Amphibolite, with or without interbedded biotite paragneiss; metagabbro; granite, or granite pegmatite; 4a, coarse-grained, dark amphibolite, possibly intrusive
- 3 Metagabbro of uncertain affiliation, including ill-preserved biotite, subordinate biotite gneiss (1a), or amphibolite (4); includes transition zones against granitic bodies
- 2 Metamorphosed Lorrain-type orthoquartzite and arkose, commonly muscovite and/or feldspathized; interbedded granite
- 1 Layered gneiss unclassified: biotite, biotite-garnet, biotite-hornblende gneiss, amphibolite, metagabbro, and calc-silicate gneiss, with numerous granitic intercalations; 1a, mostly biotite paragneiss; 1b, calc-silicate gneiss; 1c, laminated grey-pink paragneiss, possibly metagreywacke; 1d, hybrid zone of closely intermingled 1 and granitic material, porphyroblastic and auger-gneiss; 1e, medium-grained, brownish weathering, pyroxene- and amphibole bearing gneiss of unknown origin

- Note: not in stratigraphic sequence and not to be correlated with corresponding numbers of Southern Province legend
- Geological boundary
- Bedding, tops known (inclined, vertical, overturned)
- Bedding, tops unknown (inclined, vertical)
- Foliation, schistosity (inclined, vertical, dip unknown)
- Limestone and plumb
- General trend
- Fault, shear zone (defined, approximate, assumed)
- Anticline
- Syncline (arrow indicates plunge)
- Tectonic breccia
- Agmatite or inclusion-rich granite
- Direction of ice advance from glacial striae
- Locality where age has been determined, in millions years ± 400
- Pt. quarry (inactive) gravel, gr; quartz, q

Geology by M. J. Fray, 1964-1967, and R. T. Cannon, 1965, 1966

Geological cartography by the Geological Survey of Canada, 1969. This preliminary edition may be subject to revision and correction

Topographic base-map at the same scale published by the Army Survey Establishment, R. C. E., in 1964. Roads were revised by the Geological Survey of Canada for this edition

Approximate magnetic declination, 7° 30' West, increasing 0.5' annually

Elevations in feet above mean sea level

Published 1969
Copies of this map may be obtained from the Geological Survey of Canada, Ottawa

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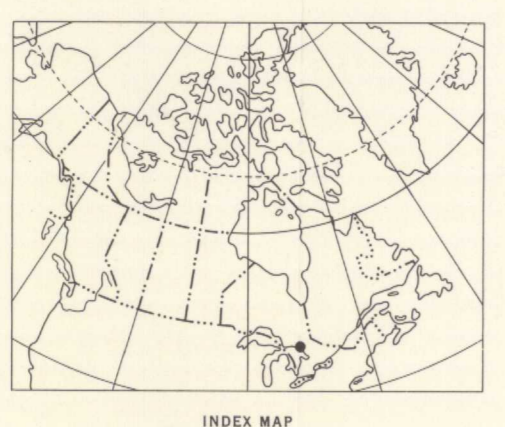
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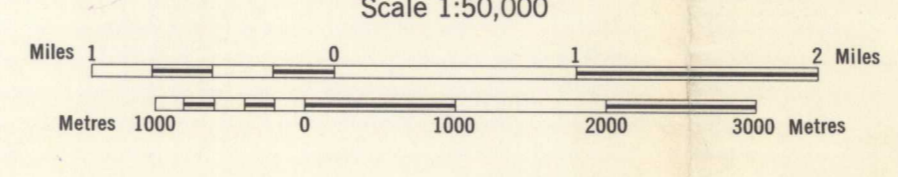
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4191	4190	4197
292A	292A	292A
4191	4197	4191
21-1066	238A	4191
4191	4191	4191
239A	239A	239A

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