

**PALAEZOIC**

**PRECAMBRIAN**

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|---|--|
| <b>ORDOVICIAN</b>   | <b>PRECAMBRIAN</b>   |
| 20 RICHMOND QUEENSTON FORMATION: red shale  | 10 Mafic dykes   |
| 19 LOBRAINE CARLESDALE FORMATION: grey shale, sandy shale, some dolomitic layers                              | 9 Nepheline gneisses   |
| 18 GLOUCESTER BILLINGS FORMATION: black shale with a little brown shale                                       | 8 Granite, quartz monzonite, granodiorite, tonalite, massive and foliated; also associated gneiss                    |
| 17 COLLINGWOOD EASTVIEW FORMATION: dark grey, almost black limestone  | 7 Spinel, monzonite, massive and foliated  |
| 16 TRENTON and BLACK RIVER OTTAWA FORMATION: limestone with some shaly partings; some sandstone in basal part | 6 Pegmatite, white pegmatite associated with marble  |
| 15 CHAZI ST. MARTIN FORMATION: shale, sandstone, impure limestone, dolomite                                   | 5 Diorite, gabbro, orthogneiss, metagabbro   |
| 14 ROCKCLIFFE FORMATION: shale with lenses of sandstone   | 4 Marble, lime silicate rocks, interbedded amphibolite, skarn  |
| 13 BECKMANTOWN OXFORD FORMATION: dolomite and limestone   | 3 Amphibolite, greenstone, associated migmatite in places garnetiferous, (includes probable mafic metavolcanics)     |
| 12 MARCH FORMATION: interbedded limestone and sandy dolomite  | 2 Paragneiss, pelitic and psammopelitic schists and gneisses (includes some layered amphibolite of uncertain origin) |
| <b>ORDOVICIAN OR CAMBRIAN</b>   | 1 Quartzite, interlayered paragneiss, quartzose paragneiss   |
| 11 NEPEAN FORMATION: sandstone  |  |

Area of heavy overburden.

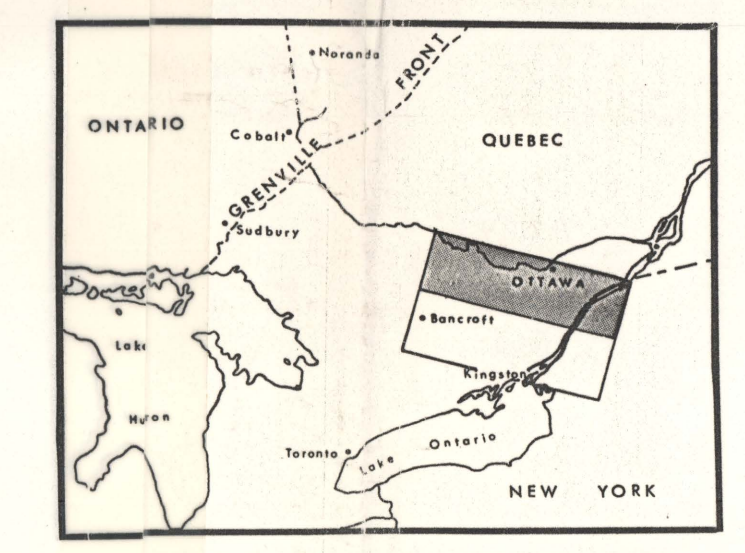
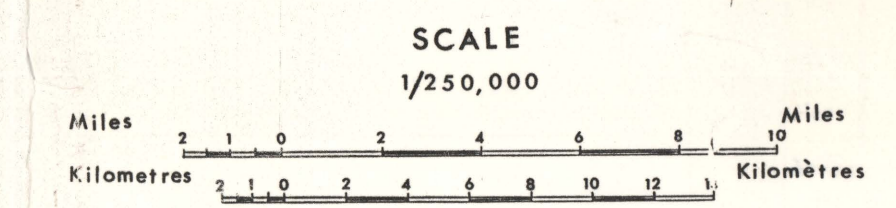
**SOURCES OF INFORMATION**

Base map compiled from published maps of the Surveys and Mapping Branch, Department of Mines and Technical Surveys. Geology from published maps of the Geological Survey of Canada, Ontario Department of Mines, Quebec Department of Natural Resources, Geological Survey of the State of New York, and unpublished work of D.D. Hogarth, J.L. Kirwan, and W. Livingstone.

**SYMBOLS**

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|-----------------------------|---------------------------------------|
| • 2 3 5 Elevation in feet   | --- Boundary, provincial              |
| Ⓚ Dual highway              | --- Boundary, county                  |
| Ⓛ Main highway              | --- Boundary, township                |
| Ⓜ Secondary road            | - - - Approximate geological boundary |
| --- Boundary, international | --- Fault or lineament                |

**GEOLOGY - OTTAWA REGION**



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67-1