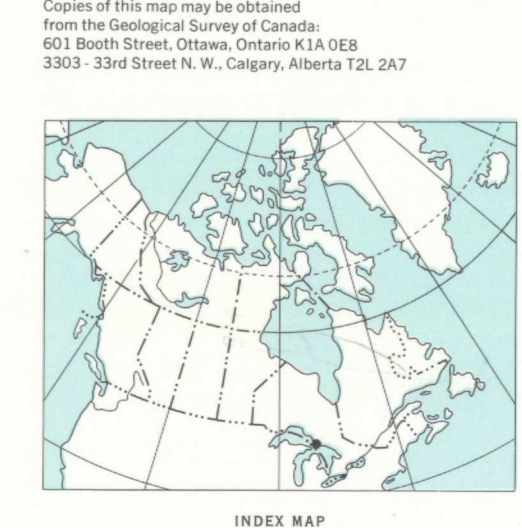
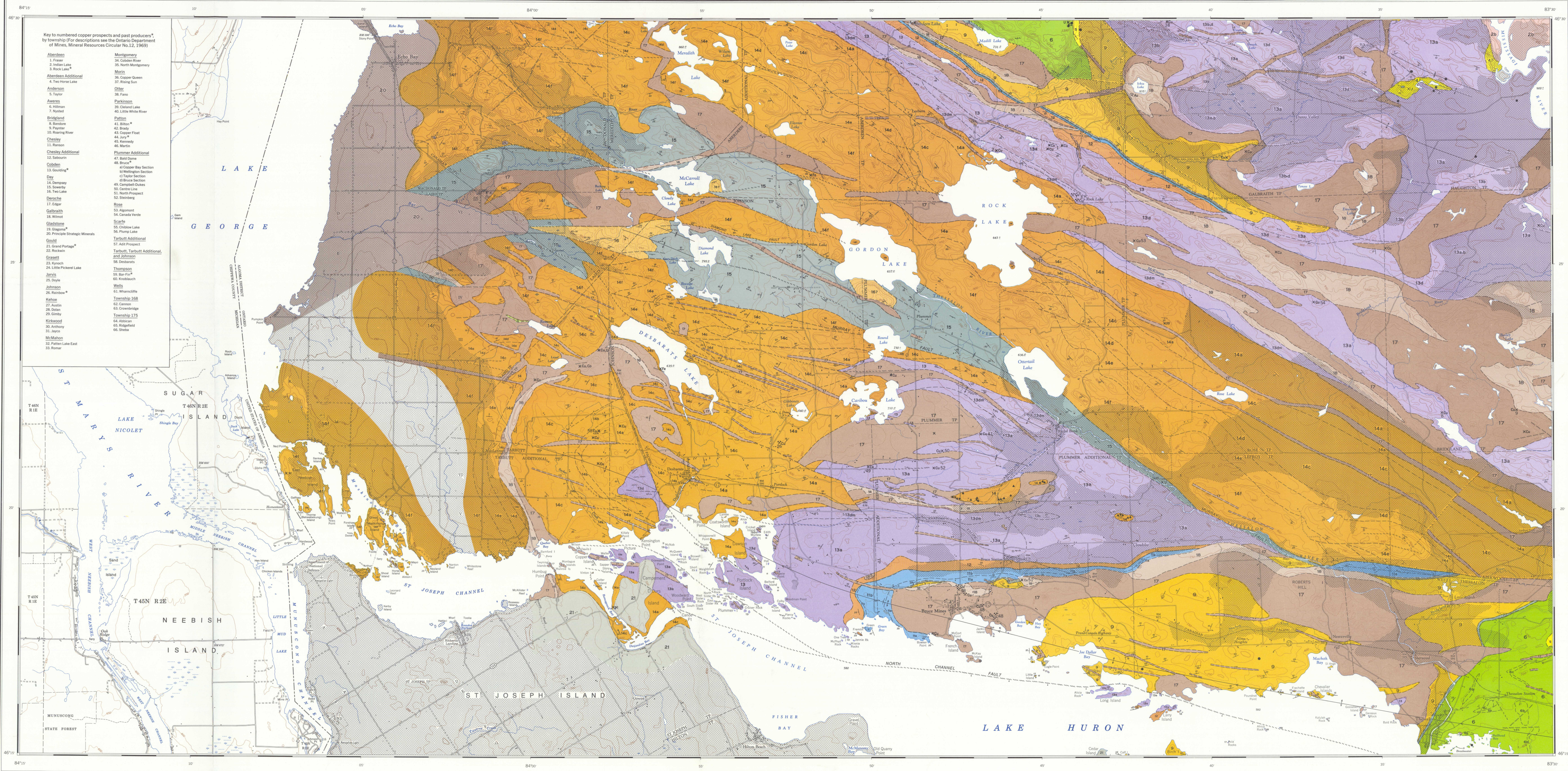


LEGEND

- This legend is common to maps 1412A, 1413A, 1414A, and 1415A (uncoloured blocks do not appear on this map)
- PALEOZOIC**
- ORDOVICIAN**
- 21 Trenton and Black River groups
Undifferentiated
- HADRYANIAN (?)**
- 20 JACOBSVILLE FORMATION: sandstone, shale, conglomerate (formerly classed as Cambrian)
- NEOHELMIAN**
- 19 MAMAINSE POINT FORMATION: basalt, rhyolite
- APHEBIAN**
- 17 18 WIPESING DIABASE: quartz diabase, gabbro, subordinate granophyre; 17a, mainly micaceous; 18, mainly granophyre diabase and gabbro (probably includes some pre-Huronian intrusions)
- HURONIAN SUPERGROUP**
- 16 BAR RIVER FORMATION: white quartzite, minor argillite
- 15 GORDON LAKE FORMATION: varicoloured siltstone, chert
- 14 LORRAIN FORMATION: quartzite, pebbly quartzite, arkose, Jasper conglomerate, argillaceous quartzite, argillite
14a, white orthoquartzite member: white quartzite, pebbly beds
14b, upper red quartzite member: red and buff pebbly quartzite, grit
14c, Jasper conglomerate member: Jasper conglomerate, white quartzite
14d, lower red quartzite member: varicoloured pebbly quartzite, grit
14e, purple siltstone member: purple arkose, siltstone, argillite
14f, basal arkose member: arkose, minor siltstone argillite, quartzite
- 13 BOWENDA FORMATION: paragonomphre, orthoconglomerate, argillite, greywacke, arkose, siltstone, quartzite; 13a, mainly paragonomphre; 13b, mainly quartzite; 13c, mainly pink arkose, quartzite, and siltstone; 13d, mainly argillite, greywacke and quartzite; 13dm, upper argillite member
- PROTEROZOIC**
- 12 QUINKE LAKE GROUP (10-12)
SERPENT FORMATION: feldspathic quartzite, polyimic conglomerate; (Fabian in South St. Marie and Wakekebi Lake-Owen map areas)
- 11 ESPANOLA FORMATION: 11a, Bruce limestone member; 11b, Espanola siltstone member; 11c, dolomite member
- 10 BRUCE FORMATION: paragonomphre, minor quartzite, grit, and orthoconglomerate
- 9 HOUSH LAKE GROUP (7-9)
MUSSELSHAW FORMATION: fine to coarse-grained feldspathic quartzite, pebbly conglomerate, and paragonomphre; minor basalt; 9a, paragonomphre; 9b, ARKERE FORMATION, feldspathic quartzite, greywacke, quartz pebbly conglomerate, paragonomphre, minor argillite, arkose (formerly correlated with the Serpent Formation)
- 8 PEORES FORMATION: argillite, siltstone (subsurface only, not identified in outcrop)
- 7 RAMSAY LAKE FORMATION: paragonomphre, minor quartzite, argillite
- 6 ELIOT LAKE GROUP (4-6)
TRESAULT FORMATION: basalt, andesite, rhyolite, minor pyroclastic rocks and intercalated sediments; 6a, basalt, minor quartzite and quartz-pebbly conglomerate; 6b, rhyolite; 6c, quartzite; 6d, amygdaloidal basalt
- 4 5 MATINEUDA FORMATION: feldspathic quartzite, arkose, grit, quartz pebbly conglomerate, polyimic conglomerate, minor basalt; 4a, polyimic conglomerate; 4b, basalt
- 3 LIVINGSTONE CREEK FORMATION: feldspathic quartzite, siltstone, polyimic conglomerate, quartz pebbly conglomerate
- ARCHAIC**
- 2 1a, schistose basic to acidic flows and pyroclastic rocks, subordinate andesite and minor dioritic intrusions; minor diorite and gabbro; 1b, biotite and hornblende plagioclase-quartz gneisses, commonly with granitic intercalations; 1c, amphibolite; 1d, mixed zones of amphibolite, biotite gneiss and granite, "granitized" amphibolite, migmatite
- 1a, schistose basic to acidic flows and pyroclastic rocks, subordinate andesite and minor dioritic intrusions; minor diorite and gabbro; 1b, biotite and hornblende plagioclase-quartz gneisses, commonly with granitic intercalations; 1c, amphibolite; 1d, mixed zones of amphibolite, biotite gneiss and granite, "granitized" amphibolite, migmatite
- Drift-covered area
Rock outcrop
Geological boundary (approximate, assumed)
Bedding (inclined)
Schistosity, gressosity (inclined, vertical dip unknown)
Anticline (direction of plunge)
Syncline (direction of plunge)
Fault, shear zone (approximate, assumed, downthrow side)
Thrust or reverse fault (direction of dip)
Glacial strike (direction of ice movement known, unknown)
Raised beach
Breccia zone
Diffuse (vertical, inclined)
Mineral occurrence
Inactive mine workings
- ELEMENT AND MINERAL SYMBOLS**
- | | | | |
|--------|----|---------|----|
| Cobalt | Cu | Silver | Ag |
| Iron | Fe | Uranium | U |
| Lead | Pb | Zinc | Zn |
| Pyrite | Py | | |
- Geology by M.J. Fray, 1961, 1963, 1967, 1970
To accompany Memoir 383 by M.J. Fray
Geological cartography by G.W. Fouchard, 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 this same scale published by the Army Survey Establishment, R.C.E., in 1953-59
Copies of this map may be obtained from the General Store of Canada, 3500 - 28th Street N.W., Calgary, Alberta T2L 2A7
Approximate magnetic declination 1974, 5°17' West decreasing 1.0' annually
Elevations in feet above mean sea-level

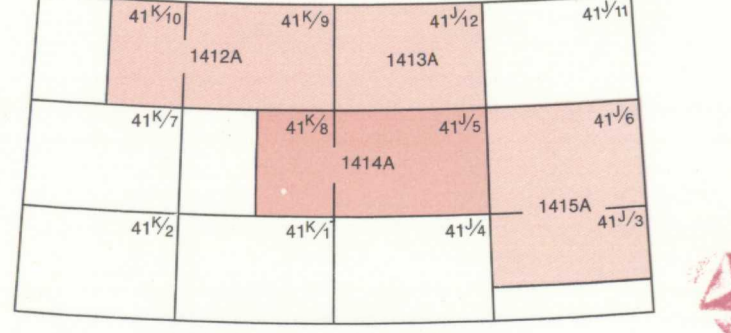


MAP 1414A
GEOLOGY
BRUCE MINES - LAKE GEORGE AREA
DISTRICT OF ALGOMA
ONTARIO
Scale 1:50,000

Kilometres 0 1 2 3 4
Miles 0 1 2

Universal Transverse Mercator Projection
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Ont. BRUCE MINES
File under → LAKE GEORGE
1:50,000
MAP 1414A

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