

LEGEND

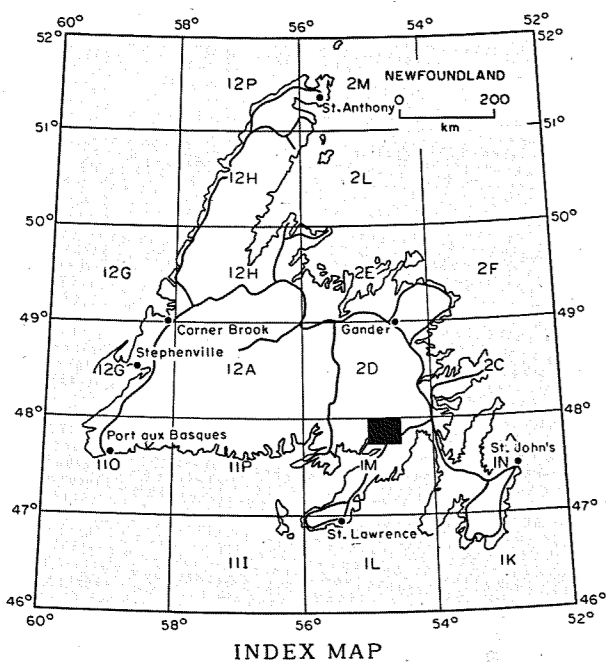
- PLEISTOCENE TO RECENT**
- 16 Unseparated glacial, glaciofluvial and alluvial deposits.
- CARBONIFEROUS**
- 15 **TERRENCEVILLE FORMATION:** Maroon and brown, pebble and cobble conglomerate; red sandstone and red and pale green mudstone.
- DEVONIAN**
- 14 **ACKLEY GRANITE:** 14a, massive, porphyritic, coarse grained, biotite granite; 14b, massive, equigranular, coarse grained, pink, biotite granite; 14c, fine grained, pink granite and aplite; 14d, quartz-feldspar porphyritic dike; 14e, medium grained, buff granodiorite and diorite (may be pre-Devonian).
 - 13 **BERRY HILLS GRANITE:** Massive, equigranular, pink, medium grained granite with minor aplite.
- DEVONIAN (?) or earlier**
- 12 **CROSS HILLS PLUTONIC SUITE:** 12a, diabase and gabbro as multiple intrusions; contains up to 30% veins and stockwork of fine to medium grained, biotite granite; 12b, medium grained, hornblende-biotite granodiorite; 12c, fine to medium grained, biotite granite and alaskite; 12d, orange to maroon aplite; 12e, fine to medium grained, microlitic, red-brown peralkaline granite and very fine grained, red-maroon aplite.
- HADRYNIAN**
- 11 **DEERWATER POINT GRANODIORITE:** Medium grained, foliated, hornblende-biotite granodiorite; minor aplite.
 - 10 **CAPE ROGER MOUNTAIN GRANITE:** Fine to medium grained, foliated, hornblende-biotite granite and minor granodiorite; 10a, pink, equigranular, medium grained, hornblende-biotite granodiorite and adamellite; minor alkali granite; 10b, pink, equigranular, medium grained granite and adamellite; 10c, pink, equigranular microgranite and aplite; 10d, medium grained, equigranular gabbro and diorite.
- LONG HARBOUR GROUP (Units 4 to 9)**
- 9 **RENCONTRE FORMATION:** Predominantly maroon, pebble, cobble and boulder conglomerate with minor sandstone and rhyolite; 9a, red sandstone and siltstone; 9b, rhyolite.
 - 8 **MOORING COVE FORMATION:** Rhyolite, felsite and ash-flow tuff; 8a, mafic sills and flows.
 - 7 **ANDERSON'S COVE FORMATION:** Undifferentiated gray, green and minor red, fine to coarse grained sandstone with granule to local boulder conglomerate; 7a, cobble and boulder conglomerate; 7b, pebble conglomerate; 7c, laminated siltstone with minor sandstone; 7d, mature sandstone; 7e, black slate; 7f, mafic sills and flows; 7g, red sandstone.
 - 6 **BELLE BAY FORMATION (Units 4 to 6)**
 - 6 **SNOOKS TOLT MEMBER:** Dominantly felsic and mafic pyroclastic rocks; includes 6a, variably welded ash-flow tuff and associated tuff breccia, agglomerate and other volcanic breccias; rhyolite flows; 6b, vesicular and massive mafic flows and breccias; diabase; 6c, waterlain tuff and associated epiclastic sediments.
 - 5 **ENGLISH HARBOUR EAST MEMBER:** Dominantly pyroclastic and epiclastic volcanic rocks; 5a, dominantly epiclastic breccias of widely variable grain size; fine grained tuffs and epiclastic sediments; 5b, red, green and yellow volcanogenic mudstone, sandstone and conglomerate; 5c, mafic breccias and volcanoclastics; 5d, ash-flow tuff, tuff breccia, agglomerate and "acid-basic" breccia; 5e, rhyolite flows and agglomerate; ash-flow tuff; 5f, coarse grained, epiclastic breccia, ash-flow tuff; 5g, red ash-flow tuff; 5h, basalt; 5i, ash-flow tuff and epiclastic; 5j, red and pink ash-flow tuff and tuff breccia with minor epiclastic sedimentary rocks.
 - 4 **GRAND LE PIERRE MEMBER:** Gray and green, massive and porphyritic rhyolite flows, ash-flow tuff and associated volcanic breccias; minor waterlain tuff.
- LOVE COVE GROUP (Units 1 to 3)**
- 3 **SOUTHERN HILLS FACIES:** Undifferentiated, predominantly unwelded, tuffaceous volcanic rocks; 3a, rhyolite flows, variably welded ash-flow tuffs and associated pyroclastic rocks; 3b, epiclastic volcanic and clastic sedimentary rocks; 3c, mafic sills and flows; 3d, dark gray tuff and associated epiclastic rocks.
 - 2 **GRANDY'S POND FACIES:** Epiclastic volcanic and sedimentary rocks; 2a, gray and green feldspathic litharenite, locally with unseparated felsic tuff beds; conglomerate, gray sandstone and siltstone; 2b, mafic tuff and flows; 2c, undivided brown and gray epiclastic sediments.
 - 1 **DEER PARK POND FACIES:** Predominantly felsic pyroclastic rocks with minor undifferentiated mafic flow and silt; 1a, rhyolite flows and welded ash-flow tuffs; 1b, mafic flows and pyroclastic rocks; 1c, epiclastic volcanic and clastic sedimentary rocks; 1d, mafic tuff and associated mafic breccia.

SYMBOLS

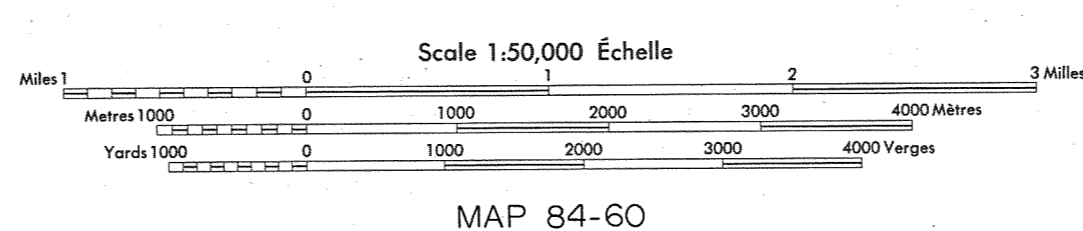
- Geological contact (defined, approximate, assumed, gradational)
- Bedding, tops known (inclined, vertical, overturned, horizontal)
- Bedding, tops unknown (inclined, vertical, dip unknown)
- Bedding, estimated dip (gentle, moderate, steep)
- Igneous flow structures (inclined, vertical)
- Anticlinal axis with direction of plunge indicated (defined, approximate, assumed)
- Synclinal axis with direction of plunge indicated (defined, approximate, assumed)
- Axis of minor fold (s, z)
- Axis of minor second fold
- Lamination
- Cleavage or schistosity (inclined, vertical)
- Shearing and dip
- Fault (defined, approximate, assumed)
- Thrust fault: (defined, approximate, assumed; teeth in direction of dip)
- Glacial striae (direction of ice movement known, unknown)
- Fossil locality
- Mineral occurrence
- Greater than 1,000 g/t tin assay
- Anomalous radioactivity

ABBREVIATIONS

- bo barite
- br barite
- chal chalcocite
- cp chalcopyrite
- fl fluorite
- hem hematite
- mal malachite
- mo molybdenite
- py pyrite



GISBORNE LAKE
 NEWFOUNDLAND



Geology by S.J. O'Brien, G.A.G. Nunn, W.L. Dickson and J. Tuach.
 This is a preliminary map and may be subject to revision and correction.
 Geological cartography by Drafting Section, Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.
 Copies of this map may be obtained from the Publications and Information Section, Mineral Development Division, Department of Mines and Energy, P.O. Box 4750, St. John's, Newfoundland A1C 5T7.

Base map at same scale published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1971.
 Elevations in feet above mean sea level.
 Approximate magnetic declination, 1984, for center of map, 27° 04' west, decreasing 2.8" annually.
 This project was financed under the Canada/Newfoundland Mineral Development Subsidary Agreement (1977-1981) by contributions from the Government of Newfoundland and Labrador (10 percent) and from the Departments of Regional Economic Expansion (45 percent) and Energy, Mines and Resources (45 percent) of the Government of Canada. Printing was paid for by the Geological Survey of Canada under the Canada-Newfoundland cooperative mineral program (1982-1984).

1/11 (227) 1