

- LEGEND**
- PLUTONIC ROCKS**
- DEVONIAN**
- ACKLEY GRANITE**
- Quartz - topaz and/or quartz - muscovite greisen. Less than 10 by 2 m except where lettered
 - 4 Medium to coarse-grained orange equigranular biotite granite; 4a, fine- to medium-grained, orange quartz - feldspar-porphyritic biotite granite
- CAMBRIAN**
- CROSS HILLS PLUTONIC SUITE**
- 3 3a, diabase - gabbro multiple intrusions; can contain up to 30 percent veins and stockworks of 3b; 3b, fine- to medium-grained biotite ("alaskite") granite; 3b₁, orange to red-brown mottled apatite; 3c, fine- to medium-grained, microlitic red-brown peralkaline granite; 3d, very fine grained, red-brown trachyte
- VOLCANIC AND SEDIMENTARY ROCKS**
- UPPER PROTEROZOIC**
- LONG HARBOUR GROUP**
- MOORING COVE FORMATION**
- 2 Fine-grained red-brown tuff and layered welded ash-flow units, massive rhyolite
- BELLE BAY FORMATION**
- 1 Felsic pyroclastic and sedimentary rocks, felsic flows, and basalt flow; 1a, massive buff to green, nonwelded poly/lithic breccia, vesicular and/or felspar porphyritic flow; 1a₁, welded, grey breccia having desulfurization textures; 1a₂, massive to bedded, medium- to coarse-grained, red and green sediment; 1a₃, welded laminated ash-flow deposits; 1b, foliated felsic breccia, ignimbrite, tuff and flow, minor welded units and sediment; 1b₁, purple breccia and minor welded breccia and massive flow; 1b₂, grey, locally welded breccia; 1b₃, bedded to laminated fine- to coarse-grained sediment; 1b₄, dark green, fine- to medium-grained, massive waterlain tuff or sediment; 1b₅, laminated to bedded grey, fine grained siliceous tuff, phyllite and sericite schist; minor coarse grained breccia; 1c, foliated to massive vesicular basalt flow, agglomerate, and/or diabase; 1d, ash-flow: massive welded and layered ash-flow tuff, breccia, and massive nonwelded tuff

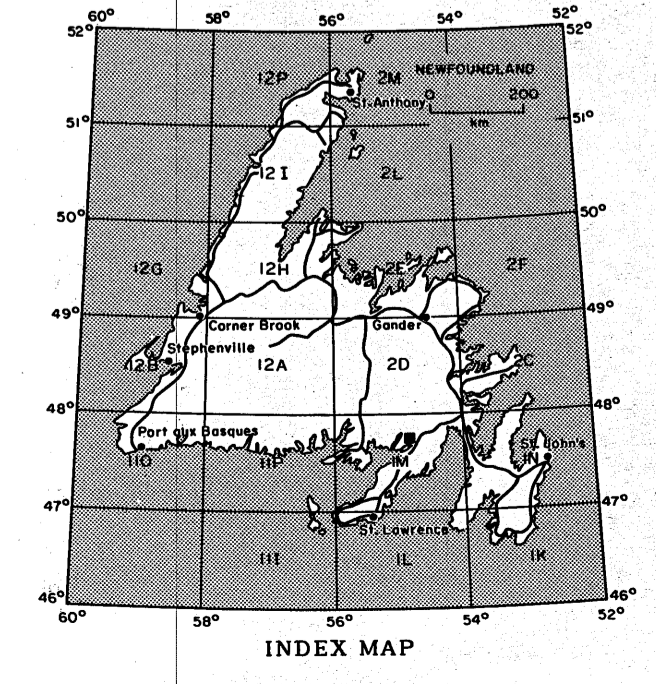
- SYMBOLS**
- Geological contacts (defined, approximate, assumed).....
- Fault (approximate).....
- Anomalous radioactivity (maximum 6 x background)..... R
- Bedding (tops known, unknown).....
- Flow layering (inclined, vertical).....
- Foliation (inclined, vertical).....
- Quartz vein.....
- Mineral occurrences.....
- Greisen veins.....
- > 2% pyrite, sericite alteration, and gossan.....
- 1-2% disseminated and stringer pyrite, may be gossanous.....
- Hematite - limonite alteration.....
- > 1000 g/t Sn assay; > 1000 g/t WO₃, visible molybdenite, fluorite, and galena..... Sn,W,Mo,F,Pb
- > 1% Zr; > 1000 g/t Niobium, Yttrium, Cerium..... Zr,Nb,Y,Ce
- Malachite stain related to minor chalcocite..... Mal

- MINERAL OCCURRENCES**
- Pyrite..... Py
- Cassiterite..... Sn
- Fluorspar..... F
- Molybdenite..... Mo
- Malachite..... mal
- Chalcocite..... choc

- LEGEND**
- TUACH 1983**
- SOLID SYMBOLS FOR ANALYZED DATA**
- LITHOCHEMICAL
 - ▲ QUARTZ VEIN
 - GREISEN
- DICKSON 1980**
- ANALYZED SAMPLES**
- x 1220-332 GRANITE
 - ▲ 221152 GREISEN
- MCCONNELL 1984**
- ANALYZED SAMPLES**
- † MC17

To accompany Report 91-2 by J. Tuach
 Geology by John Tuach.
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 This map is subject to review and revision.
 Publications of the Geological Survey Branch are available through the Publications and Information Section, Geological Survey Branch, Department of Mines and Energy, Government of Newfoundland and Labrador, P.O. Box 8700, St. John's, Newfoundland, A1B 4J6.
 This project is a contribution to the Canada - Newfoundland mineral development agreements 1976 - 1989.

GRAND LE PIERRE - SAGE POND
 FORTUNE BAY, NFLD - 1M/10
 SAMPLE LOCATIONS AND GEOLOGY



MAP 91-15