

- PROTEROZOIC
- NEOHELIXIAN
- Flowers River Igneous Suite (18, 19)
- 19 Peralkaline granite, 18a, medium to coarse grained equigranular phase; 18b, aphanitic to fine grained porphyritic phase.
- 18 Felsic volcanic rocks, 18a, quartz and quartz feldspar porphyry; 18b, massive to flow banded felsic, locally containing a few quartz phenocrysts; 18c, welded ash flow tuff; 18d, volcanic breccia and agglomerate.
- 17 Olivine diorite dikes, may be equivalent to the Harp dikes.
- PALEOHELIXIAN
- Main Igneous Complex (14 to 16)
- 16 Pyroxene amphibole-feldspar granitoid plutons; 16a, medium grained granite and minor granodiorite; 16b, medium grained quartz syenite, quartz monzonite; 16c, fine grained porphyritic equivalents of Units 16a and 16b; 16d, hornblende-biotite and biotite granite, granodiorite.
- 15 Intermediate plutons; 15a, diorite, monzonite, quartz monzonite; 15b, monzonite, quartz monzonite; 15c, syenite, quartz syenite; 15d, altered plagioclase cumulate.
- 14 Gabbrro plutons; 14a, Outer Border Zone - plagioclase-phryic olivine gabbro, gabbronorite, monzogabbro; 14b, Inner Border Zone - olivine leucogabbro; 14c to 14d, Cumulate Zone - cumulate phase are: plagioclase (14d), plagioclase-olivine (14d), plagioclase-olivine-clinopyroxene (14d), plagioclase-orthopyroxene (14d), olivine-aegirine (14d), plagioclase-olivine-aegirine (14d); 14e, miscellaneous gabbro and monite dikes and sills.
- AFHEBIAN (and older?)
- Churchill Structural Province (6 to 13)
- 13 Altered diorite dikes, may be early Paleohelikian in age.
- 12 Metarhyolite, metagranodiorite.
- 11 Meta-androsite.
- 10 Leucocratic biotite-hornblende granite and granodiorite orthogneiss; 10a, medium to coarse grained granite to granodiorite augen gneiss; 10b, fine to medium grained mylonitic granite to granodiorite gneiss; 10c, medium grained mylonitic biotite-muscovite granite gneiss.
- 9 Leucocratic biotite-garnet tonalite to granite orthogneiss; 9a, coarse grained biotite-garnet tonalite to granite augen gneiss; 9b, fine to medium grained biotite-garnet granite gneiss.
- 8 Banded tonalite gneiss; 8a, biotite-garnet tonalite gneiss, contains minor thin bands of quartzite and biotite schist; 8b, biotite-hornblende tonalite gneiss, contains bands of amphibolite, diorite schist and minor marble; 8c, medium grained unbande tonalite to granodiorite gneiss.
- 7 Diorite to quartz diorite gneiss and schist, includes bands of tonalite gneiss and amphibolite.
- 6 Amphibolite, includes minor bands of diorite and tonalite gneiss and schist.
- 5 Banded and veinitic migmatite, formed by pre-tectonic injection of numerous dikes and stringers of leucogabbro (correlated with Units 9 and 10) into Units 6 to 8.
- ARCHEAN
- Main Structural Province (1 to 5)
- 5 Diabase dikes, includes dikes of Aophanian age and younger.
- 4 Metagranite and metagranodiorite.
- 3 Banded pyroxene-hornblende-biotite tonalite gneiss, locally grading to granite gneiss. Typically intruded by dikes and lenses of leucogabbro pegmatite; 3a, tonalite gneiss without inclusions of mafic gneiss; 3b, tonalite gneiss containing numerous reefs and inclusion trains of mafic gneiss.
- 2 Amphibolite, locally intruded by leucogabbro pegmatite.
- 1 Finely banded, fine grained gabbro to tonalite gneiss; 1a, pyroxene-hornblende-biotite gabbro to diorite gneiss; 1b, pyroxene-hornblende-biotite tonalite gneiss, locally containing bands of Unit 1a. May be in part equivalent to Unit 3a; 1c, biotite-garnet tonalite gneiss, intruded by biotite-gabbro leucogabbro.

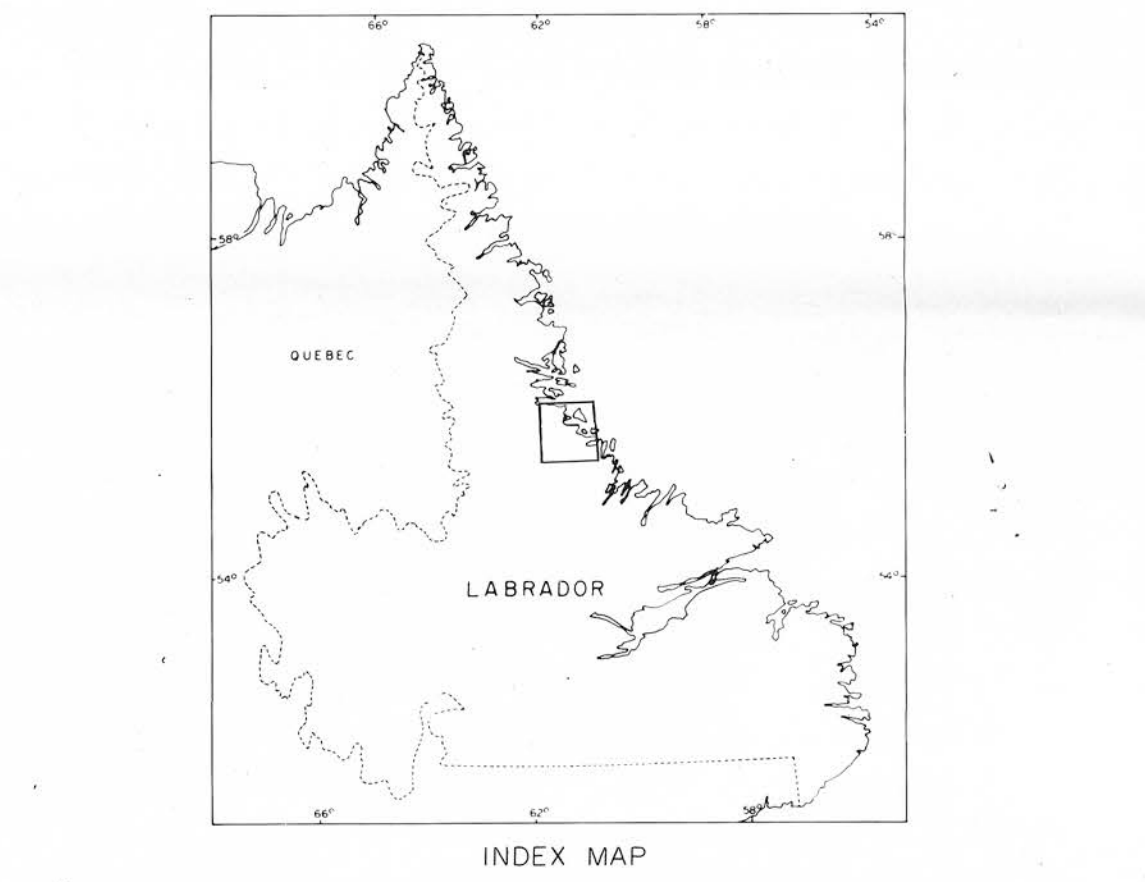
NOTE: THIS IS A COMPOSITE LEGEND FOR MAPS 81-136 AND 81-137 AND ALL UNITS DO NOT APPEAR ON EACH MAP.

- Geologic boundary (observed, approximate, assumed)
- Mineral occurrence
- Drift covered area
- Striae (direction known, unknown) relative age shown by numbers
- Abbreviations
- uranium u
- pyrite py
- pyrrhotite pyr
- total count scintillometer anomaly ra

TILL GEOCHEMISTRY,
FLOWERS RIVER AREA, LABRADOR
BY R. A. KLASSEN, A. M. BOLDUC, R. K. BURNS,
F. J. THOMPSON, 1984-1985

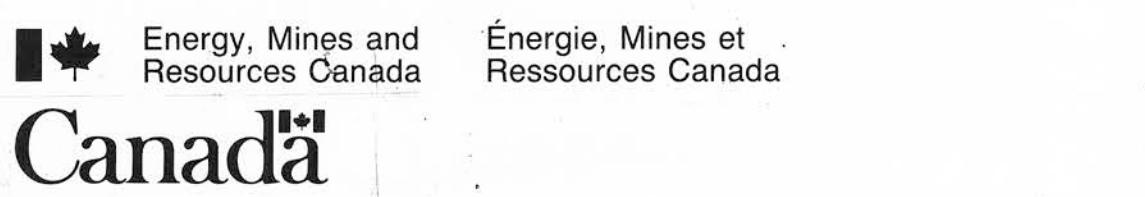
CHROMIUM (PPM)
LESS THAN 2 MICRONS

Scale 1:100 000
Kilometres 2 4 6 8
Universal Transverse Mercator Projection
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Geology modified from Map 81-136
Hill, J.D.
1982: Geology of the Flowers River-Notakwanon
River area, Labrador.
Department of Mines and Energy,
Government of Newfoundland and Labrador,
Report 82-6, 138 p.

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