

- PROTEROZOIC**
- NEOHELIXIAN**
- Flowers River Igneous Suite (15, 19)
19. Plutonic granite, 19a, medium to coarse grained equigranular phase, 19b, 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 diabase dikes, may be equivalent to the Harp dikes.
- PALEOHELIXIAN**
- Main Igneous Complex (14 to 16)
16. Pyroxene-anorthite-feldspar granitoid plutons, 16a, medium grained granite and minor granodiorite, 16b, medium grained quartz granite, quartz monzonite, 16c, fine grained porphyritic equivalents of Units 16a and 16b, 16d, hornblende-biotite and biotite granite, granodiorite.
15. Intermediate plutons, 15a, diorite, monzonitoid, quartz monzonitoid, 15b, monzonite, quartz monzonite, 15c, syenite, quartz syenite, 15d, altered plagioclase cumulate.
14. Gabbroid plutons, 14a, Outer Border Zone - plagioclase-phyric olivine gabbro, gabbro-syenite, monzonitoid, 14b, Inner Border Zone - olivine leucogabbro, 14c to 14d, Cumulate Zone - cumulus phases are: plagioclase (14a), plagioclase-olivine (14b), plagioclase-olivine-clinopyroxene (14c), plagioclase-orthopyroxene (14d), clinopyroxene (14a), plagioclase-olivine-gabbro (14b), 14c, monzonitic gabbro and monzonite dikes and sills.
- AFHEBIAN (and older?)**
- Churchill Structural Province (6 to 13)
13. Altered diabase dikes, may be early Paleohelikian in age.
12. Metagabbro, metagranodiorite.
11. Meta-anorthite.
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-monzonite 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 unbedded 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 xenitic magmatite, formed by pre-tectonic injection of numerous dikes and stringers of leucogabbro (containing Unit 5 and 10) into Unit 6 to 8.
- ARCHAIC**
- Main Structural Provinces (1 to 5)
5. Diabase dikes, includes dikes of Afhebian age and younger.
4. Metagabbro 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 rhyolite and inclusion veins 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-garnet leucogabbro.

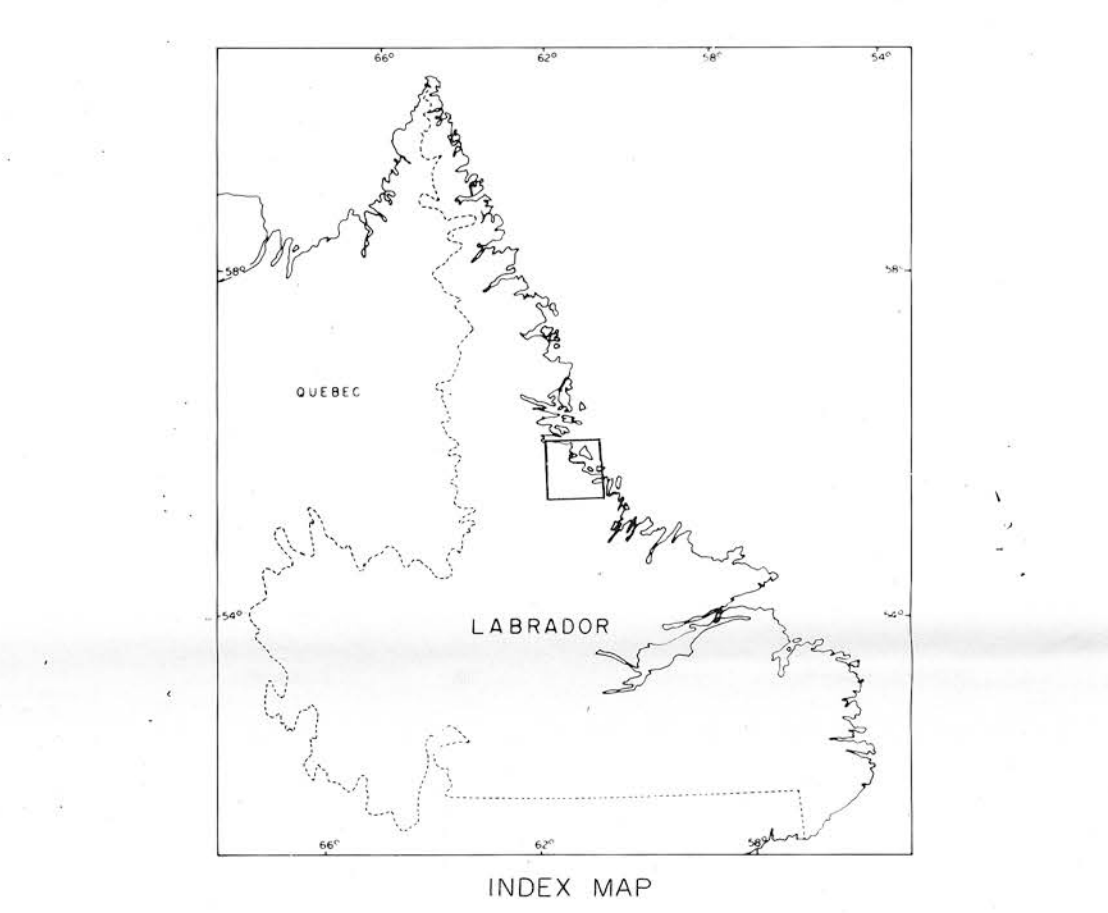
NOTE: THIS IS A COMPOSITE LEGEND FOR MAPS 81-136 AND 81-137 AND ALL UNITS DO NOT APPEAR ON EACH MAP.

- Geologic boundary (observed, approximate, assumed) / / / /
- Mineral occurrence x
- Drift covered area [stippled pattern]
- Striae (direction known, unknown) relative age shown by numbers) [arrow with number]
- Abbreviations**
- uranium U
- polyblende mb
- fluorite fl
- chalcocite cc
- galena ga
- pyrite py
- pyrrhotite po
- total count scintillation anomaly sa

**TILL GEOCHEMISTRY,
FLOWERS RIVER AREA, LABRADOR**
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F. J. THOMPSON, 1984-1985

**MANGANESE (PPM)
LESS THAN 2 MICRONS**

Scale 1:100 000
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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