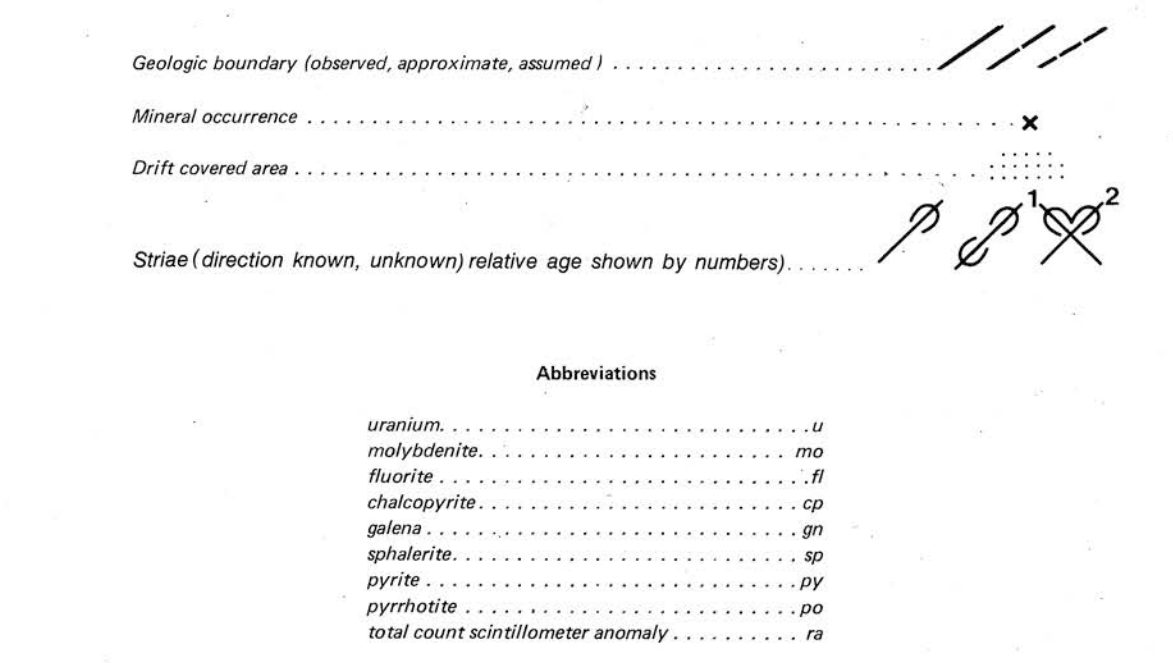
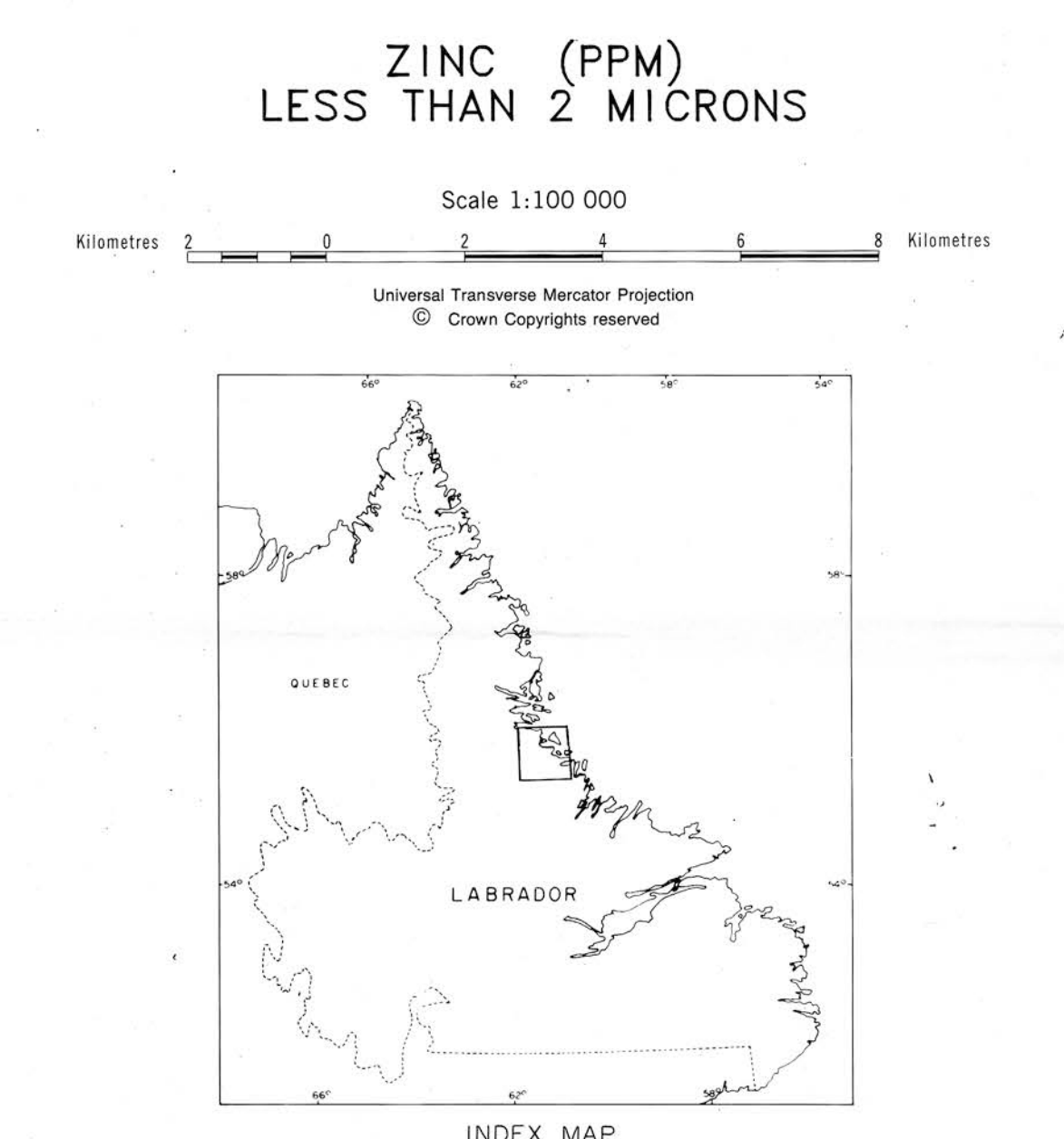


- PROTEROZOIC**
- NEOHELIKIAN**
- Flowers River Igneous Suite (18, 19)
- 19 Residual granite; 18a, medium to coarse grained equigranular phase; 18b, aphanitic to fine grained porphyritic phase.
- 18 Felsic volcanic rocks; 18a, quartz and quartz feldspar porphyry; 18b, massive to flow-banded felsite, locally containing a few quartz phenocrysts; 18c, welded ash-flow tuff; 18d, volcanic breccia and agglomerates.
- 17 Olivine diabase dikes, may be equivalent to the Haps dikes.
- PALEOHELIKIAN**
- Nain Igneous Complex (14 to 16)
- 16 Pyroxene-amphibole-feldspar gabbroic 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, minor plagioclase cumulates.
- 14 Gabbroic plutons; 14a, Outer Border Zone - plagioclase-phyric olivine gabbro, gabbro-norite, monzonite; 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), olivine-oxide (14e), plagioclase-olivine-quartz (14f); 14g, mafic-ultramafic gabbro and norite dikes and sills.
- ASHEBIAN (and older?)**
- Churchill Structural Province (8 to 13)
- 13 Altered diabase dikes, may be early Paleozoic in age.
- 12 Metanorite, megacrystic.
- 11 Metanorite.
- 10 Leucocratic biotite-hornblende granite and granodiorite orthogneiss; 10a, medium to coarse grained granite to granodiorite; 10b, fine to medium grained mylonitic granite to granodiorite; 10c, medium grained mylonitic biotite-muscovite granite gneiss.
- 9 Leucocratic biotite-garnet tonalite to granite orthogneiss; 9a, coarse grained biotite-garnet tonalite to granite; 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 norite; 8c, medium grained unbanding 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 leucogranite correlated with Units 9 and 10 into Units 6 to 8.
- ARCHEAN**
- Nain Structural Province (1 to 5)
- 5 Diabase dikes, includes dikes of Ashcroft age and younger.
- 4 Megacrystic and megacrystic.
- 3 Banded pyroxene-hornblende-biotite tonalite gneiss, locally grading to granite gneiss. Typically intruded by dikes and lenses of leucogranite pegmatite; 3a, tonalite gneiss without inclusion of mafic gneiss; 3b, tonalite gneiss containing numerous mafic and inclusion trails of mafic gneiss.
- 2 Amphibolites, locally intruded by leucogranite 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 leucogranite.

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



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



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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