

- PROTEROZOIC**
- NEOHELIXIAN**
- Flowers River igneous Suite (18, 19)
- 19 Residual 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 felsite, locally containing a few quartz phenocrysts; 18c, andesite with flow surf; 18d, volcanic breccia and agglomerate.
- 17 Olivine diabase dikes, may be equivalent to the Hays dikes.
- PALEOHELIXIAN**
- Nain 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 Gabbroic plutons: 14a, Outer Border Zone - plagioclase-phryic olivine gabbro, gabromonite, monzogabbro; 14b, Inner Border Zone - olivine leucogabbro; 14c to 14d, Cumulate Zone - cumulate phases are: Diopside (14a), plagioclase-olivine (14b), plagioclase-olivine-clinopyroxene (14c), plagioclase-orthopyroxene (14d), olivine-cordierite (14e), plagioclase-olivine-quartz (14f), 14g, miscellaneous gabbro and norite dikes and sills.
- APHEBIAN (and older?)**
- Churchill Structural Province (8 to 13)
- 13 Altered diabase dikes, may be early Paleohelixian in age.
- 12 Metatonalite, metagranodiorite.
- 11 Meta-anorthosite.
- 10 Leucocratic biotite-hornblende granite and granodiorite orthogneiss; 10a, medium to coarse grained granite to granodiorite aegirine gneiss; 10b, fine to medium grained mylonitic granite to granodiorite gneiss; 10c, medium grained mylonitic biotite-calcic gneiss.
- 9 Leucocratic biotite-garnet tonalite to granite orthogneiss; 9a, coarse grained biotite-garnet tonalite to granite aegirine 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 unband 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 veinlike magnetite, formed by pre-tectonic injection of numerous dikes and stringers of leucogabbro associated with Units 9 and 10 into Units 6 to 8.
- ARCHEAN**
- Nain Structural Province (1 to 5)
- 5 Diabase dikes, includes dikes of Apebiian 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 veins and inclusion trails 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
Drift covered area
Shales (direction known, unknown) relative age shown by numbers)

Abbreviations

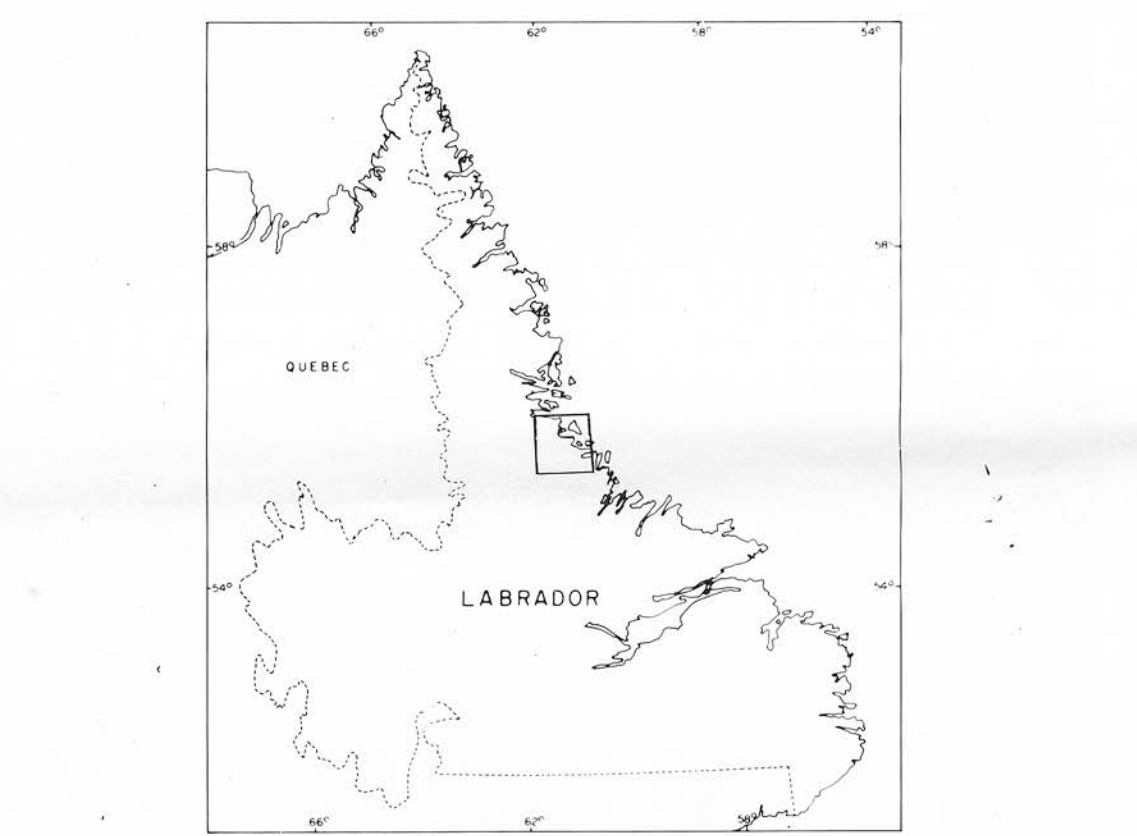
uranium U
molybdenite Mo
fluorite F
chalcopyrite CP
galena G
sphalerite SP
pyrite PY
pyrrhotite PR
total count RA

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

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

Scale 1:100 000

Universal Transverse Mercator Projection
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Geology modified from Map 81-136

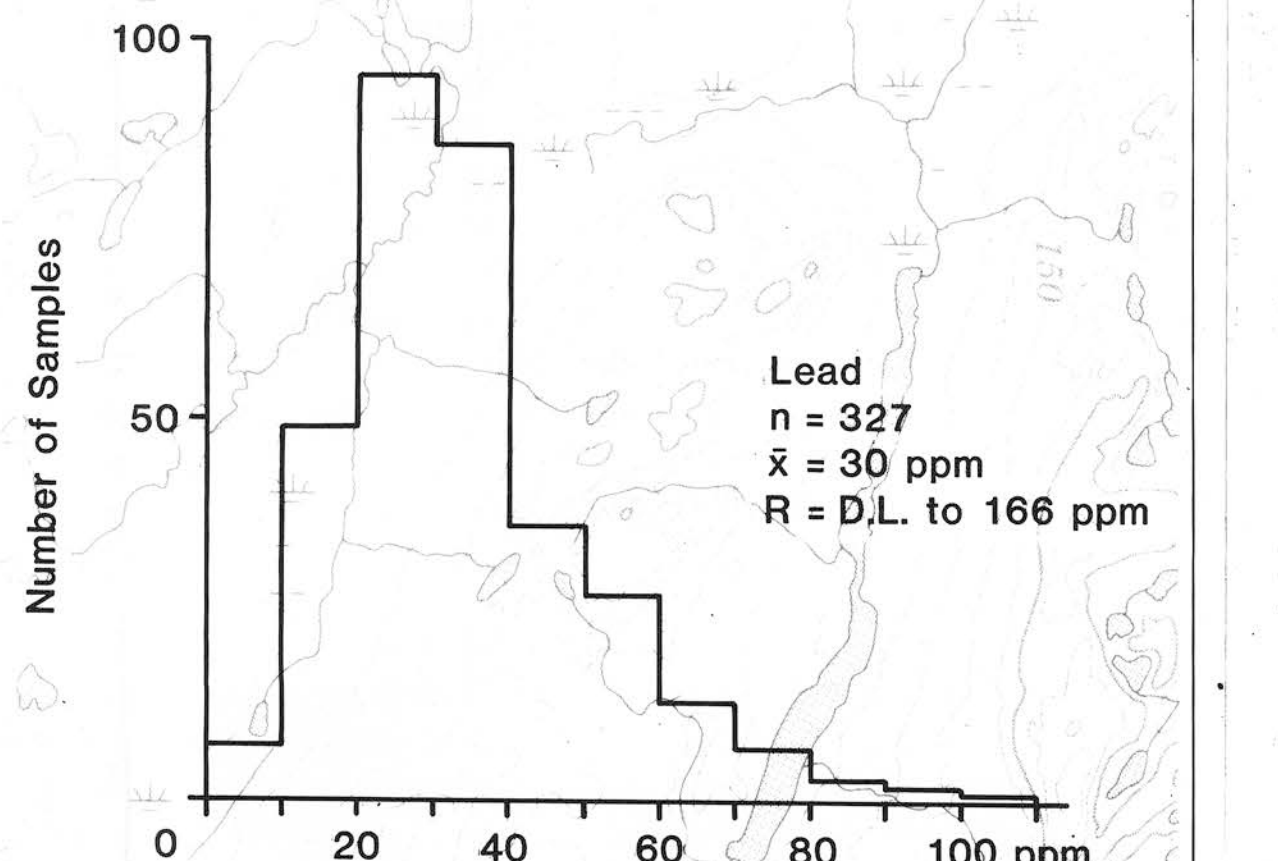
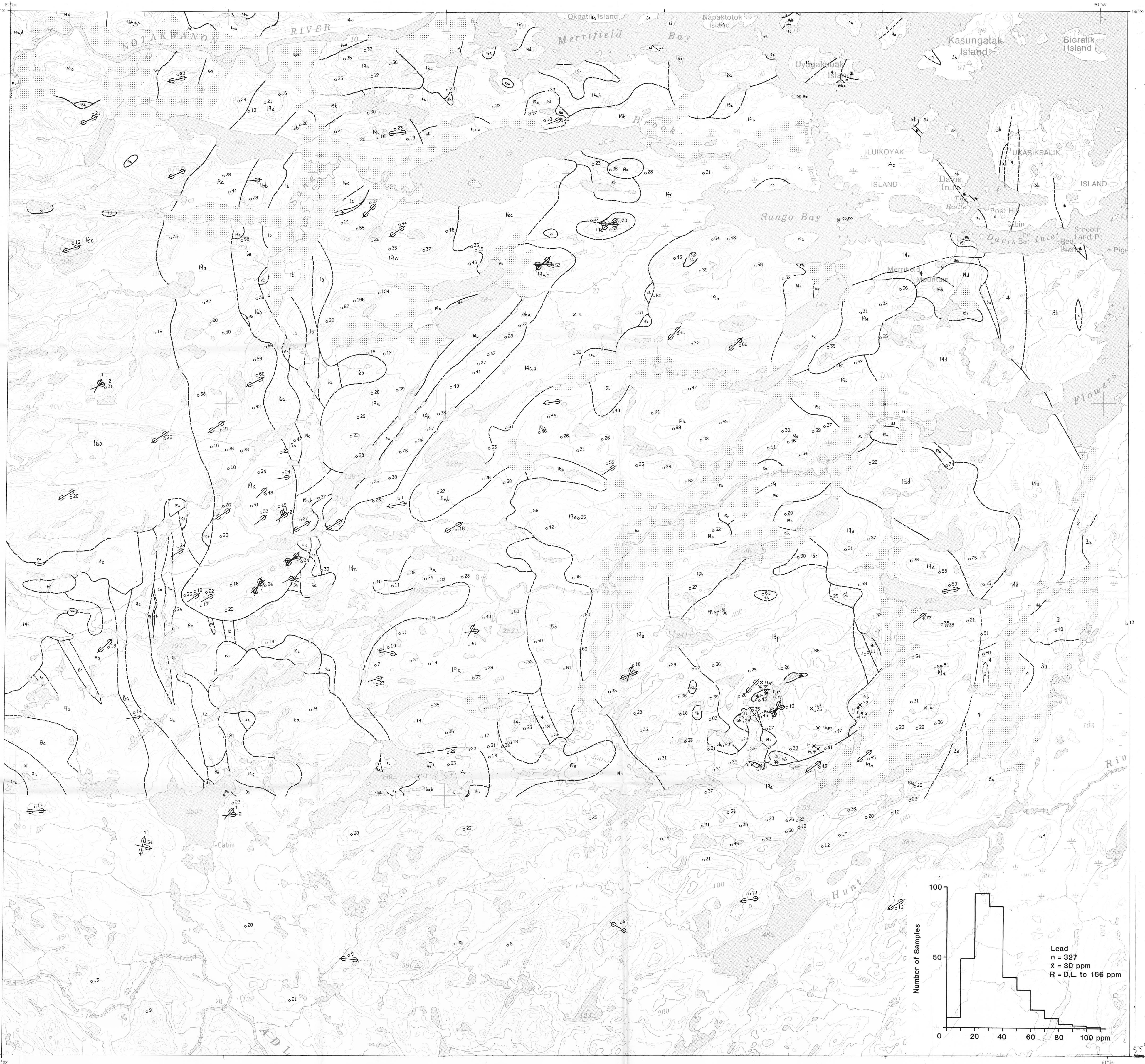
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Report 82-6, 138 p.

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1282**
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
OTTAWA
1986

Energy, Mines and
Resources Canada
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CONTRIBUTION TO THE CANADA-NEWFOUNDLAND MINERAL DEVELOPMENT AGREEMENT 1984-1989

MINERAL DEVELOPMENT DIVISION
DEPARTMENT OF MINES AND ENERGY
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR