

LEGEND

HELIKIAN TO CAMBRIAN

- 12 Peridotite dikes
- 11 "Big feldspar" diabase dikes
- 10 Undivided diabase dikes
- 9 Diorite dikes, locally zoned
- 8 Massive rhyolite/microgranite dikes

APHEBIAN (includes rocks predating and synkinematic with the Hudsonian Orogeny)

- 7 Quartz-feldspar porphyry dikes, more than one age
- 6 Hornblende granite, monzonite and quartz diorite; 6a, olivine gabbro
- 5 Island Harbour plutonic suite: 5a, Undivided gray, medium grained granodiorite, contains abundant gneiss inclusions; 5a₁, diorite; 5a₂, aplite; 5a₃, diorite, hornblende; 5a₄, fine grained dark gray quartz diorite and tonalite; 5a₅, medium grained granodiorite; 5a₆, layered granodiorite; 5a₇, massive, medium grained, slightly porphyritic granodiorite; 5a₈, fine to medium grained, slightly porphyritic granodiorite; 5a₉, banded, pale gray, leucocratic dikes; 5b, porphyritic medium to coarse grained biotite granite; 5c, aplite; 5d, pegmatite
- 4 Gabbro, probably more than one age; 4a, foliated and amphibolitic; 4b, cut by granite veins

Allik Group (2-3)

- 3 3a, Banded felsic to mafic volcaniclastic rocks; 3b, massive and banded mafic metavolcanic rocks; 3c, calcareous siltstone and limestone
- 2 2a, Mafic metavolcanic rocks of diverse origin; 2a₁, pillowed lava; 2a₂, volcaniclastic conglomerate; 2b, arkose, quartzite, quartz pebble conglomerate; 2c, psammite, garnetiferous mica schist, black slate, limestone

ARCHEAN

Structurally reworked during Hudsonian Orogeny

- 1j-1i Postville mylonite zone: 1j, Undivided gray to pink mylonite; 1j₁, mylonite with recognizable quartzofeldspathic gneiss protolith; 1j₂, mylonite containing amphibolitic layers; 1k, deformed megacrystic and equigranular granite; 1l, mylonite crosscut by schistose meta-diabase dikes

Structurally reworked and migmatized in early Proterozoic

- 1d-1i Island Harbour Pond - Iggiuk Bight Complex: 1d, Well layered gneiss and amphibolite ("straightened" gneiss); 1d₁, gneiss in which amphibolite is derived from dikes; 1d₂, gneiss with layered amphibolite rafts of supracrustal origin; 1e, deformed megacrystic granite; 1f, deformed schlieric gray granodiorite; 1g, migmatite with 1d as paleosome; 1g₁, rafts with discordant amphibolite in migmatite; 1h, gray anatectic granite; 1i, megacrystic granite and gray magnetite-bearing granite

Metamorphosed but not strongly deformed in Proterozoic

- 1c Kanairiktok Bay anorthosite: 1c, Anorthosite and metagabbro; 1c₁, ultramafic rocks; 1c₂, anorthosite cut by amphibolite dikes
- 1b Salmon Pond supracrustals: 1b, Massive to layered amphibolite, locally migmatitic; 1b₁, amphibolite cut by amphibolite dikes; 1b₂, semipelite and psammite schists
- 1a English River Pond gneiss: 1a, Predominantly quartzofeldspathic migmatite and banded gneiss; 1a₁, quartzofeldspathic gneiss and migmatite cut by amphibolite dikes

SYMBOLS

- Recorded outcrop or station locality: x
- Outcrop locality compiled: x
- Geological boundary (defined, approximate, assumed, gradational): - - - - -
- Bedding, tops unknown (inclined): - - - - -
- Igneous layering (inclined, vertical): - - - - -
- Dike (numbered as on legend): - - - - -
- Gneissic layering (inclined, vertical, horizontal, dip unknown): - - - - -
- Mylonitic foliation (inclined, vertical): - - - - -
- Schistosity or cleavage (inclined, vertical, dip unknown): - - - - -
- Crenulation (dip unknown): - - - - -
- Plunge of lineation or fold axis: - - - - -
- Form of folded layering in outcrop: - - - - -
- Antiform: - - - - -
- Synform: - - - - -
- Fault (approximate, assumed): - - - - -
- Structural trend observed on aerial photograph: - - - - -
- Lineament observed on aerial photograph: - - - - -
- Mineral occurrence (pyrite, radioactivity): x py, RA
- Esker: - - - - -

Geology by B. Ryan, A. Kay and I. Ermanovic (1981); in part compiled from unpublished maps of BRINEX on file with Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.

Maps are accompanied by separate notes.

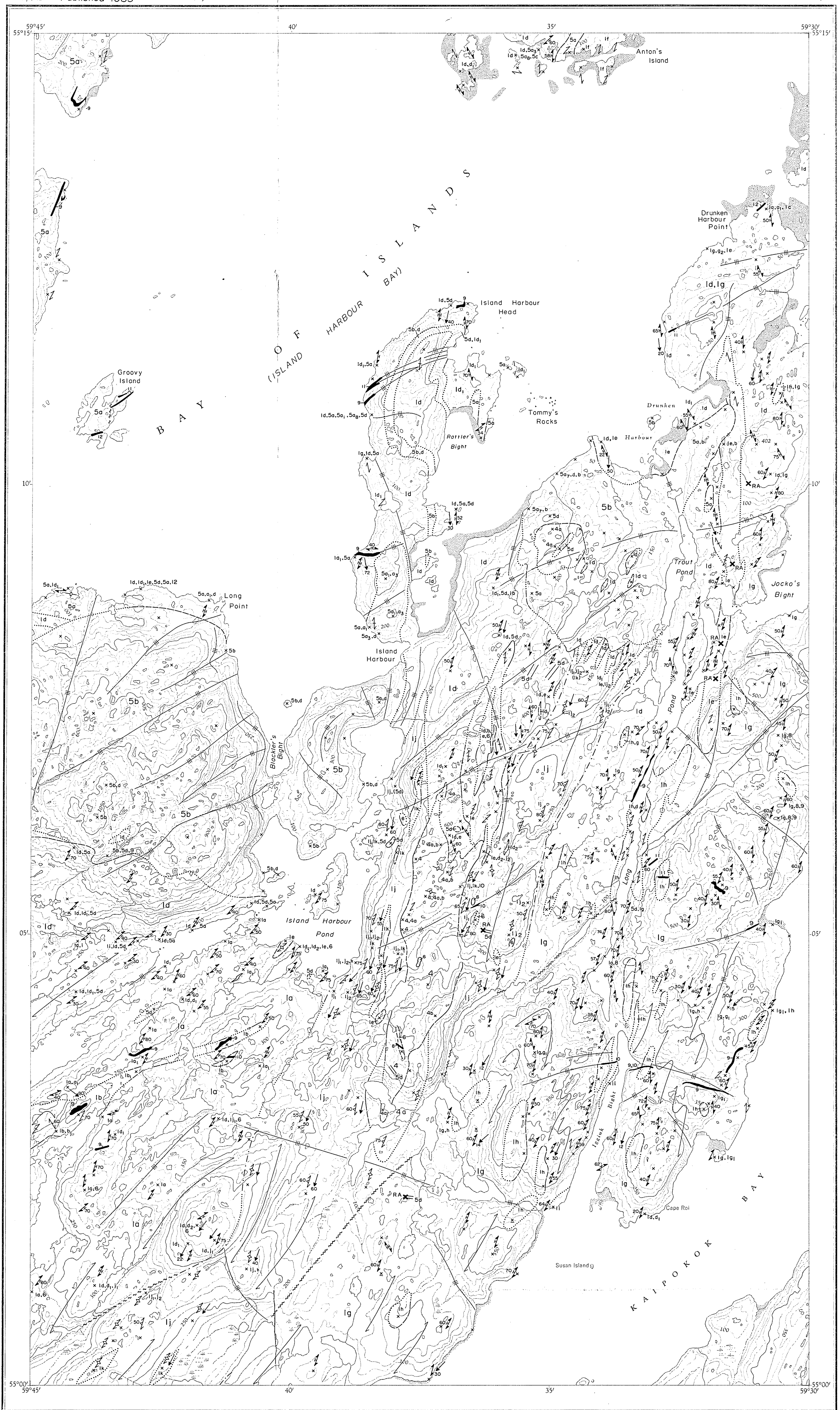
These maps may be subject to revision and correction.

Geological cartography by Drafting Section, Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.

Copies of these maps may be obtained from the Publications and Information Section, Mineral Development Division, Department of Mines and Energy, P.O. Box 4750, St. John's, Newfoundland, A1C 5T7.

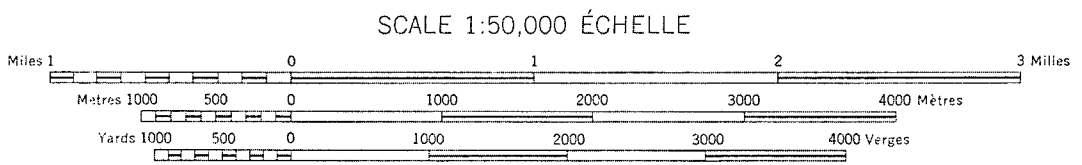
Base maps at same scale published by Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa.

This project was financed under the Canada/Newfoundland Mineral Development Subsidiary Agreement (1977-1981) by contributions from the Government of Newfoundland and Labrador (10 percent) and from the Departments of Regional Economic Expansion (45 percent) and Energy, Mines and Resources (45 percent) of the Government of Canada.



NOTE - Legend and symbols common to all maps. All units and symbols may not appear on this sheet.

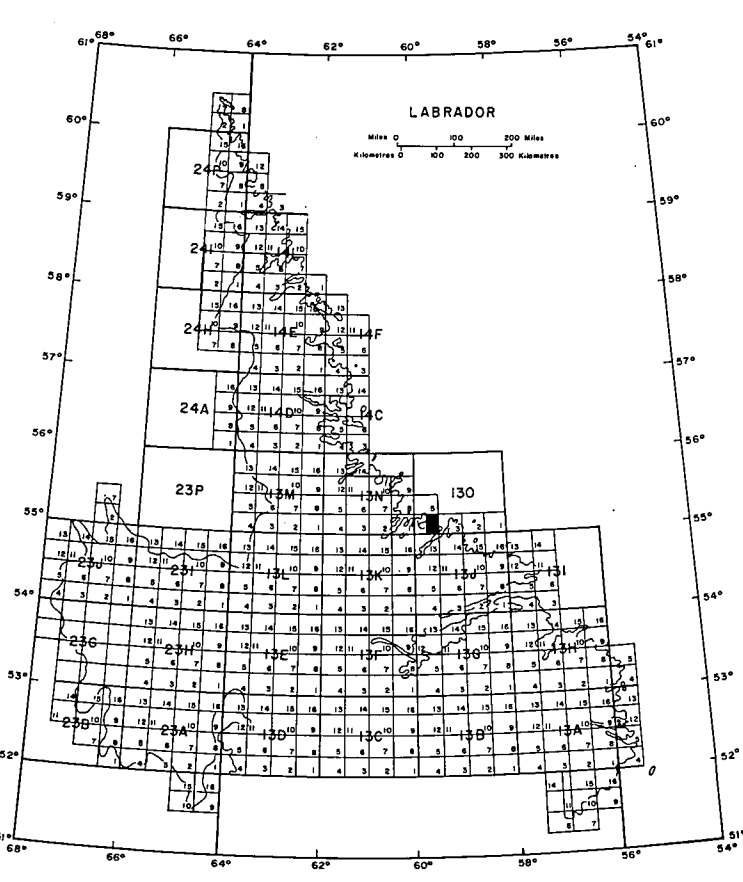
BAY OF ISLANDS
NEWFOUNDLAND
MAP 83-40
SCALE 1:50,000 ÉCHELLE



MAGNETIC DECLINATION 35°10' WEST
AT CENTRE OF MAP 1984
Annual change (decreasing) 4.3'

Some names on this map are not yet official. Corrections or additions are invited by the Surveys and Mapping Branch.

- Building: - - - - -
- School: - - - - -
- Church: - - - - -
- Lighthouse: - - - - -
- River with bridge: - - - - -
- Stream, intermittent or dry: - - - - -
- Marsh or Swamp: - - - - -
- Depression contour: - - - - -
- Estimate: - - - - -
- Église: - - - - -
- Église: - - - - -
- Phare: - - - - -
- Rivière avec pont: - - - - -
- Cour d'eau intermittent ou à sec: - - - - -
- Marais ou marécage: - - - - -
- Courbes de dépression: - - - - -
- Bank: - - - - -
- Grange: - - - - -
- Post Office: - - - - -
- Cemetery: - - - - -
- Crestline: - - - - -
- Phone: - - - - -
- Luc. intermittent, non mesurée: - - - - -
- Marais ou marécage: - - - - -
- Courbes de dépression: - - - - -



INDEX MAP