

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; 5a<sub>1</sub>, diorite; 5a<sub>2</sub>, appinite, diorite, hornblende; 5a<sub>3</sub>, fine grained dark gray quartz diorite and tonalite; 5a<sub>4</sub>, medium grained granodiorite; 5a<sub>5</sub>, layered granodiorite; 5a<sub>6</sub>, massive, medium grained, slightly porphyritic granodiorite; 5a<sub>7</sub>, fine to medium grained, slightly porphyritic granodiorite; 5a<sub>8</sub>, banded, pale gray, leucocratic dikes; 5b, porphyritic medium to coarse grained biotite granite; 5c, apfite; 5d, pegmatite.

- 4 Gabbro, probably more than one age; 4a, foliated and amphibolitic; 4b, cut by granite veins.

Aillik Group (2-3)

- 3 3a, Banded felsic to mafic volcanoclastic rocks; 3b, massive and banded mafic metavolcanic rocks; 3c, calcareous siltstone and limestone.
- 2 2a, Mafic metavolcanic rocks of diverse origin; 2a<sub>1</sub>, pillowed lava; 2a<sub>2</sub>, volcanoclastic conglomerate; 2b, arkose, quartzite, quartz pebble conglomerate; 2c, psammite, garnetiferous mica schist, black slate, limestone.

ARCHEAN

Structurally reworked during Hudsonian Orogeny

- 1j-1l Postville mylonite zone: 1j, Undivided gray to pink mylonite; 1j<sub>1</sub>, mylonite with recognizable quartzofeldspathic gneiss protolith; 1j<sub>2</sub>, mylonite containing amphibolitic layers; 1k, deformed megacrystic and equigranular granite; 1l, mylonite crosscut by schistose metabasite dikes.

Structurally reworked and migmatized in early Proterozoic

- 1d-1i Island Harbour Pond - Iggiuk Bight Complex: 1d, Well layered gneiss and amphibolite ("straightened" gneiss); 1d<sub>1</sub>, gneiss in which amphibolite is derived from dikes; 1d<sub>2</sub>, gneiss with layered amphibolite rafts of supracrustal origin; 1e, deformed megacrystic granite; 1f, deformed schlieric gray granodiorite; 1g, migmatite with 1d as paleosome; 1g<sub>1</sub>, 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; 1c<sub>1</sub>, ultramafic rocks; 1c<sub>2</sub>, anorthosite cut by amphibolite dikes.
- 1b Salmon Pond supracrustals: 1b, Massive to layered amphibolite, locally migmatitic; 1b<sub>1</sub>, amphibolite cut by amphibolite dikes; 1b<sub>2</sub>, semipelite and psammite schists.
- 1a English River Pond gneiss: 1a, Predominantly quartzofeldspathic migmatite and banded gneiss; 1a<sub>1</sub>, quartzofeldspathic gneiss and migmatite cut by amphibolite dikes.

SYMBOLS

- Recorded outcrop or station locality . . . . . x
- Outcrop locality compiled . . . . . z
- 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 by RA
- Esker . . . . . /

Geology by B. Ryan, A. Kay and I. Ermánovics (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.

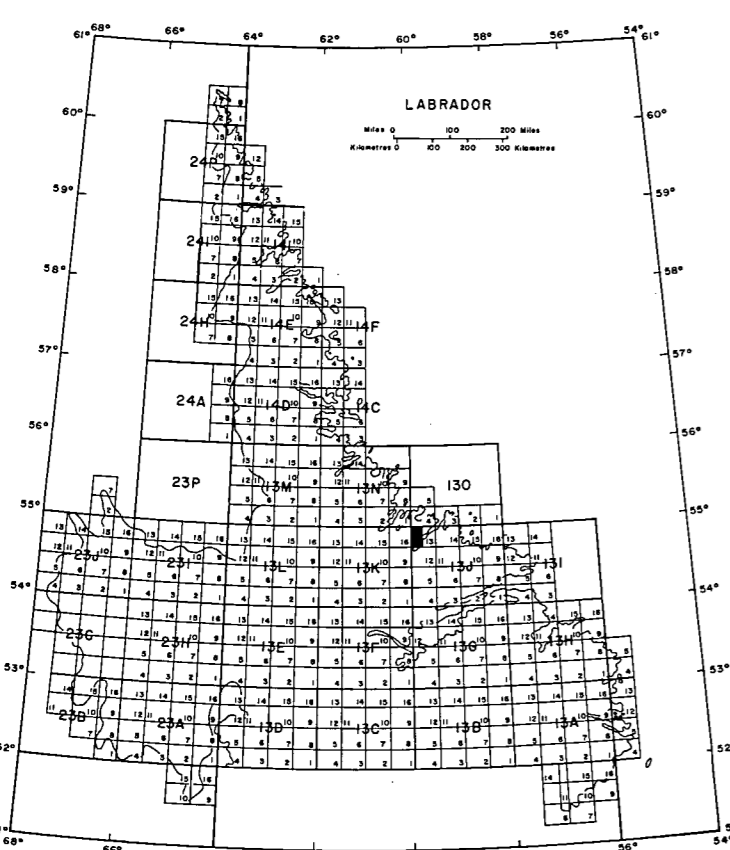
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Geological cartography by Drafting Section, Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.

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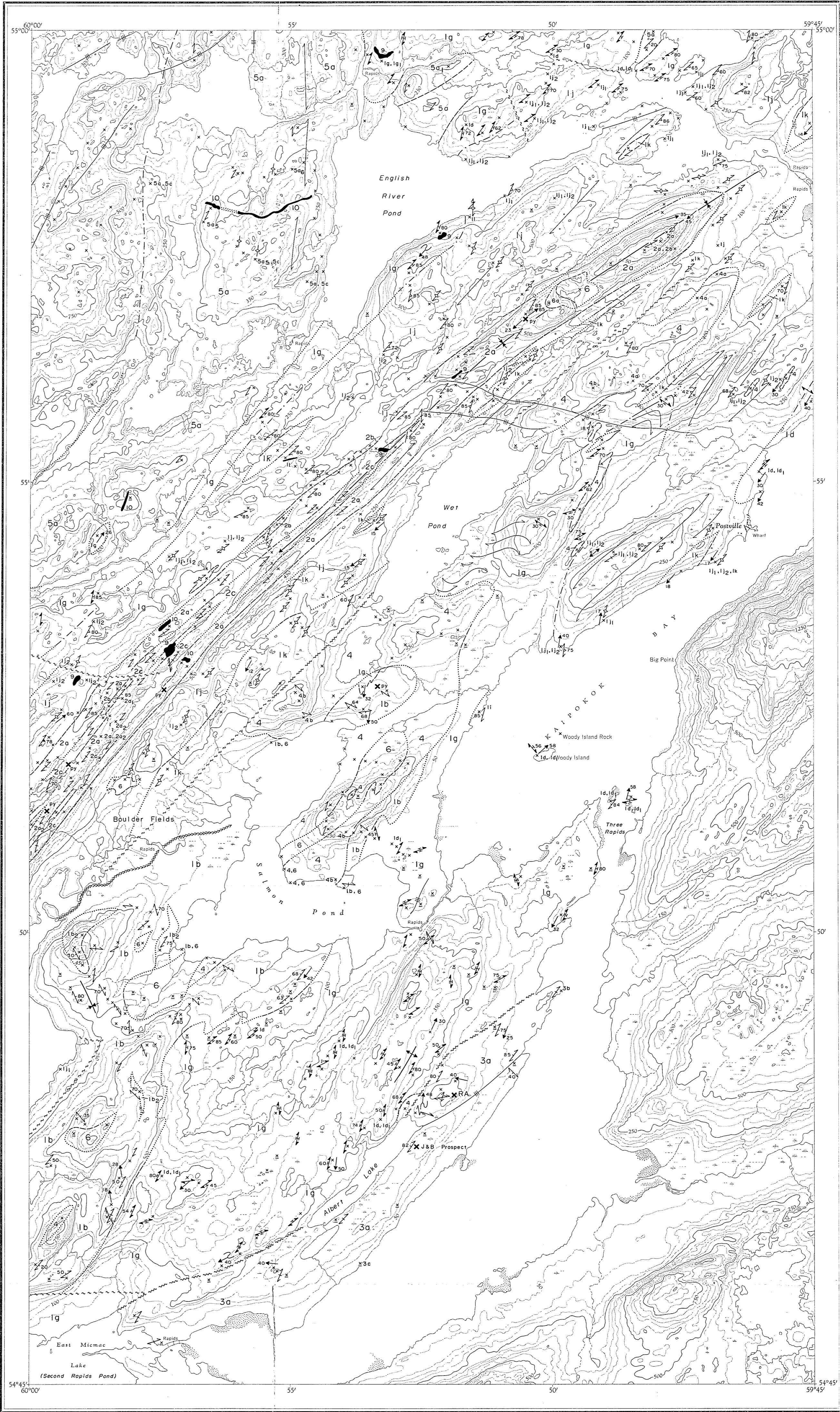
INDEX MAP



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

13 J/13 W Published 1983 1:50,000

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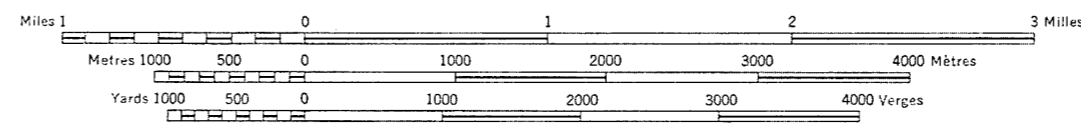


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Copies may be obtained from the Map Distribution Office, Department of Mines and Technical Surveys, Ottawa.

POST HILL  
NEWFOUNDLAND  
MAP 83-39

SCALE 1:50,000 ÉCHELLE



CONTOUR INTERVAL 50 FEET  
Elevations in Feet above Mean Sea Level  
North American Datum 1927  
Transverse Mercator Projection

MAGNETIC DECLINATION 34°48' WEST  
AT CENTRE OF MAP 1963  
Annual change (decreasing) 4.2'

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

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

- Building . . . . .
- School . . . . .
- Church . . . . .
- Light House . . . . .
- Blow with bridge . . . . .
- Lake intermittent, indubitate . . . . .
- Marsh or Swamp . . . . .
- Depression contour . . . . .
- Barren . . . . .
- Post Office . . . . .
- Cemetery . . . . .
- Phone . . . . .
- Roads and paths . . . . .
- Courts (tribunales, etc.) . . . . .
- Lac intermittent, non impécable . . . . .
- Mares ou marécage . . . . .
- Courbes de cotee . . . . .