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

13 O/4 W Published 1983 1:50,000 13 O/4 W

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;* **$5a_1$,** *diorite;* **$5a_2$,** *appinite, diorite, hornblendite;* **$5a_3$,** *fine grained dark gray quartz diorite and tonalite;* **$5a_4$,** *medium grained granodiorite;* **$5a_5$,** *layered granodiorite;* **$5a_6$,** *massive, medium grained, slightly porphyritic granodiorite;* **$5a_7$,** *fine to medium grained, slightly porphyritic granodiorite;* **$5a_8$,** *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.*

Aillik 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;* **$2a_1$,** *pillowed lava;* **$2a_2$,** *volcaniclastic conglomerate;* **2b,** *arkose, quartzite, quartz pebble conglomerate;* **2c,** *psammite, garnetiferous mica schist, black slate, limestone.*

ARCHEAN

Structurally reworked during Hudsonian Orogeny

lj - ll **Postville mylonite zone: 1j,** *Undivided gray to pink mylonite;* **$1j_1$,** *mylonite with recognizable quartzofeldspathic gneiss protolith;* **$1j_2$,** *mylonite containing amphibolitic layers;* **1k,** *deformed megacrystic and equigranular granite;* **1l,** *mylonite crosscut by schistose metadiabase dikes.*

Structurally reworked and migmatized in early Proterozoic

ld - li **Island Harbour Pond - Iggiuk Bight Complex: 1d,** *Well layered gneiss and amphibolite ("straightened" gneiss);* **$1d_1$,** *gneiss in which amphibolite is derived from dikes;* **$1d_2$,** *gneiss with layered amphibolite rafts of supracrustal origin;* **1e,** *deformed megacrystic granite;* **1f,** *deformed schlieric gray granodiorite;* **1g,** *migmatite with* **1d** *as paleosome;* **$1g_1$,** *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

Ic **Kanairiktok Bay anorthosite: 1c,** *Anorthosite and metagabbro;* **$1c_1$,** *ultramafic rocks;* **$1c_2$,** *anorthosite cut by amphibolite dikes.*

Ib **Salmon Pond supracrustals: 1b,** *Massive to layered amphibolite, locally migmatitic;* **$1b_1$,** *amphibolite cut by amphibolite dikes;* **$1b_2$,** *semipelitic and psammitic schists.*

Ia **English River Pond gneiss: 1a,** *Predominantly quartzofeldspathic migmatite and banded gneiss;* **$1a_1$,** *quartzofeldspathic gneiss and migmatite cut by amphibolite dikes.*

SYMBOLS

Recorded outcrop or station locality ×

Outcrop locality compiled ×

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) × py, RA

Esker

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

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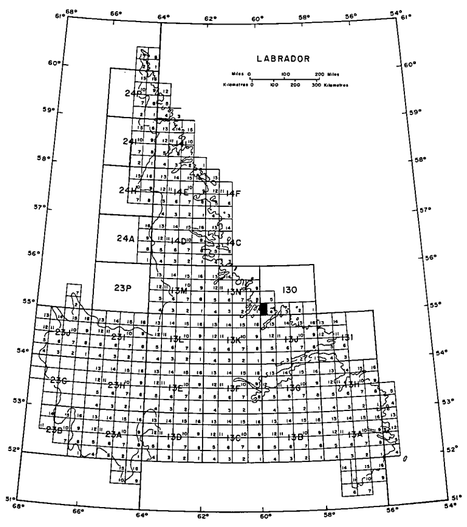

INDEX MAP

Compiled, 1952, by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF MINES AND TECHNICAL SURVEYS, from air photographs taken in 1953. Field surveys 1959. Printed 1964.

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

Roads:	Routes:
all weather	toute saison
dry weather	période sèche
cart track	de terre
trail or portage	sentier ou portage
Railway, normal gauge, single track	Chemin de fer, voie unique (écartement normal)
Power transmission line	Ligne de transport d'énergie
Mine or Open cut	Mine ou fosse à ciel ouvert
Horizontal control point, with elevation	Point géodésique avec cote 454
Bench mark, with elevation	Repère de nivellement avec cote BM 157

BAY OF ISLANDS
NEWFOUNDLAND
MAP 83-41

SCALE 1:50,000 ÉCHELLE

Miles 1 0 1 2 3 Miles
Metres 1000 500 0 1000 2000 3000 4000 Mètres
Yards 1000 500 0 1000 2000 3000 4000 Verges

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 1964
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	Bâtiment	Barn	Grange
School	École	Post Office	Bureau de poste P
Church	Église	Cemetery	Cimetière
Lighthouse	Phare		
River with bridge	Rivière avec pont		
Stream, intermittent or dry	Cours d'eau intermittent, ou à sec		
Lake intermittent; indefinite	Lac intermittent, rive imprécise		
Marsh or Swamp	Marais ou marécage		
Depression contours	Courbes de cuvette		

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