MINERAL DEVELOPMENT DIVISION
DEPARTMENT OF MINES
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

Published 1988

LEGEND

PALEOZOIC
Early Carboniferous

14

14 *Mafic dykes; fine grained, unmetamorphosed*

LATE PROTEROZOIC–EARLY CAMBRIAN

13g	13q

13g *Gabbro, olivine gabbro; coarse grained, ophitic texture, generally north-northeast trending*

13q *Quartz (+ minor feldspar) veins*

12l	12o	12s

12l Lighthouse Cove Formation: *fine grained, columnar-jointed basalt*

12o Bateau Formation: *conglomerate containing rounded, subrounded and angular clasts derived from underlying basement; includes clastic dykes*

12s Bateau Formation and Gilbert arkose: *crossbedded arkose and minor shale characteristically red and maroon weathering*

LATE PROTEROZOIC

11f	11g

11f *Granite; fine grained, massive, equigranular*

11g *Granite; coarse grained, massive, equigranular*

10c	10m

10c *Fault breccia; extensive alteration to epidote, hematite, chlorite and quartz*

10m *Mylonite, ultramylonite; intensely foliated and lineated*

MIDDLE PROTEROZOIC

9e	9p

9e *Minor mafic dykes; medium grained and equigranular, deformed and metamorphosed*

9p *Minor mafic dykes; medium grained and plagioclase porphyritic, deformed and metamorphosed*

8

8 *Microgranite, aplite and pegmatite dykes, and irregular-shaped intrusions*

7a	7f	7g	7l	7m	7n	7r	7y

7a *Amphibolite and retrograded metagabbro; medium grained, commonly garnetiferous, foliated to gneissic*

7f *Two-pyroxene granulite, leucogabbronorite; fine grained (rectiplanar shape of outcrops suggests that these rocks are dykes in part)*

7g *Granite, grading into K-feldspar megacrystic granitoid rocks; medium to coarse grained*

7l *Leucogabbro, leuconorite, minor anorthosite; medium and coarse grained (similar to 7r but lower colour index)*

7m *Monzonite, monzodiorite, syenite and quartz-bearing varieties; medium and coarse grained*

7n *Anorthosite, leucogabbronorite; medium and coarse grained*

7r *Gabbro, norite, troctolite; medium and coarse grained, characteristically olivine bearing, includes minor ultramafite*

7y *Syenite grading into monzonite (quartz bearing in part); medium to coarse grained*

6a	6g	6l	6m	6n	6u

6a *Metagabbroid rocks; amphibolite to granulite facies*

6g *Alkali-feldspar granite, grading locally into monzonite; fine to coarse grained*

6l *Leucogabbronorite, minor anorthosite; fine to very coarse grained*

6m *Monzonite to monzogabbro; fine to very coarse grained*

6n *Anorthosite and leucogabbronorite; fine to very coarse grained*

6u *Ultramafite; fine to coarse grained*

5f	5g	5h	5m	5y

5f *Biotite granite, alkali-feldspar granite; fine grained*

5g *Biotite granite, alkali-feldspar granite; coarse grained*

5h *Hornblende granite, alkali-feldspar granite; coarse grained*

5m *Monzonite, quartz monzonite grading into diorite, granite or syenite; medium and coarse grained*

5y *Alkali-feldspar quartz syenite, syenite and alkali-feldspar granite; medium and coarse grained*

4a	4b	4d	4f	4g	4h	4m	4p	4y

4a *Amphibolite skialiths, lenses and layers (possible remnants of former mafic dykes)*

4b *Biotite and/or hornblende granodiorite; medium to coarse grained*

4d *Hornblende diorite to quartz diorite; medium to coarse grained*

4f *Biotite granodiorite to granite; fine grained*

4g *Biotite granite, alkali-feldspar granite; medium to coarse grained*

4h *Hornblende and/or biotite granite to quartz monzonite; medium to coarse grained*

4m *Hornblende and/or biotite quartz monzonite, grading into diorite or syenite; medium to coarse grained*

4p *Granodiorite to granite containing K-feldspar megacrysts; medium to coarse grained*

4y *Quartz syenite to alkali-feldspar granite; medium to coarse grained*

(No Unit 3 on this map–see note 7)

2a	2c	2g	2k	2q	2s	2u	2w	2x	2z

2a *Amphibolite containing quartz–feldspar layers and calc-silicate pods; schistose or gneissic (probably supracrustal in part)*

2c *Calc-silicate rocks, compositionally layered; medium grained*

2g *Quartzofeldspathic rocks having a bedded(?) appearance; locally exhibit lensoid shapes (possibly derived from a volcanoclastic protolith)*

2k *Kyanite-bearing quartz–feldspar schist and gneiss; medium grained*

2q *Quartzite, meta-arkose(?), thin to thick bedded; pelitic gneiss layers*

2s *Sillimanite-bearing quartz–feldspar schist and gneiss; medium grained and rusty weathering*

2u *Muscovite-rich, quartz–feldspar, pelitic and semipelitic schist; medium grained and rusty weathering in places*

2w *Quartz–feldspar psammitic schist and gneiss, metagreywacke(?); medium grained and rusty weathering in places*

2x *Metasedimentary diatexite; coarse grained to pegmatitic and white weathering*

2z *Cordierite-bearing schist and gneiss; fine to medium grained*

1a	1b	1d	1g	1h	1p	1q

1a *Mafic to ultramafic gneissose rocks, commonly containing quartz–feldspar veins and segregations; fine to coarse grained*

1b *Biotite granodiorite gneiss containing minor hornblende; fine to coarse grained*

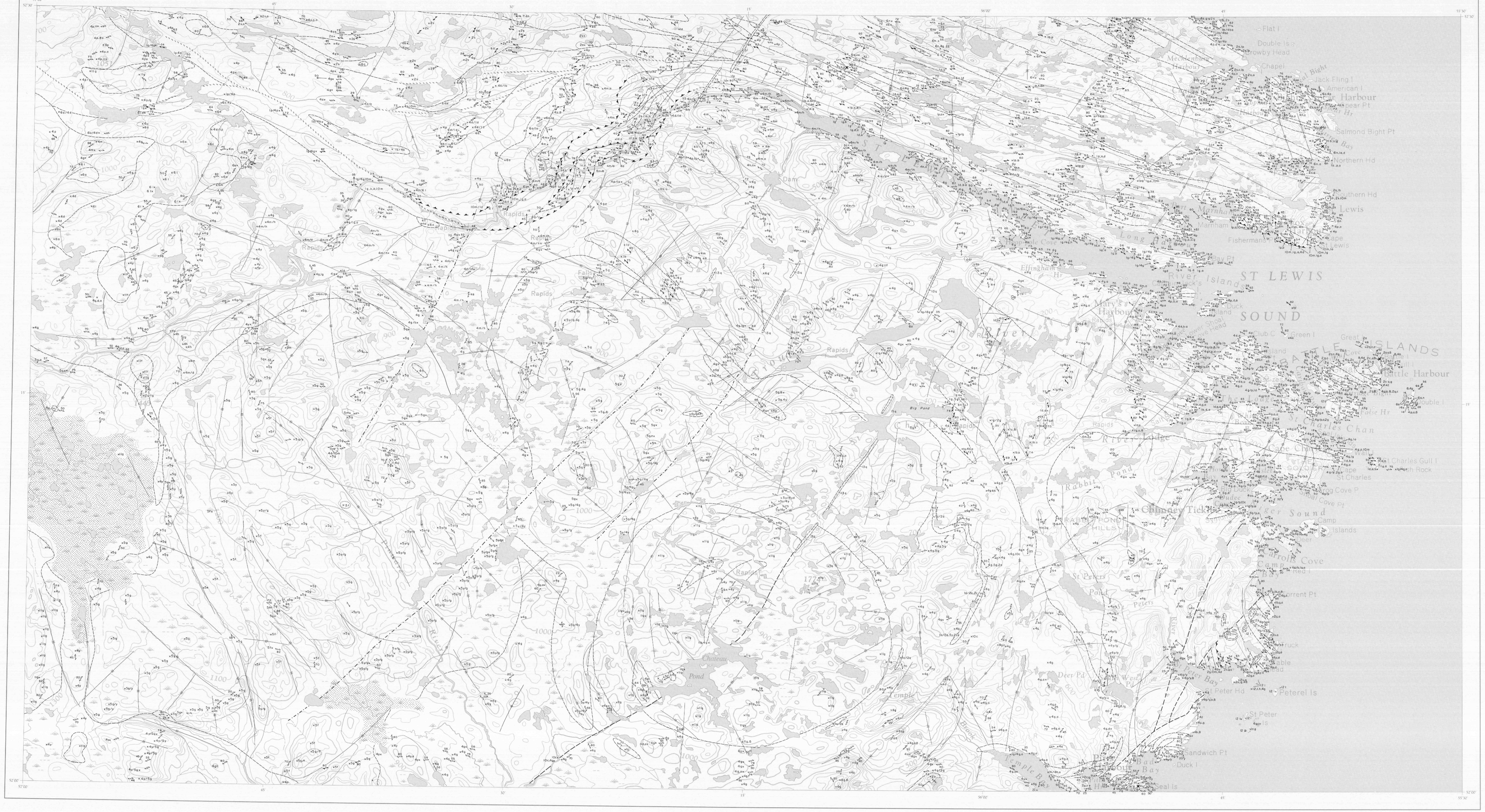
1d *Biotite–hornblende diorite to quartz diorite gneiss; fine to coarse grained*

1g *Biotite granite gneiss containing minor muscovite; medium to coarse grained*

1h *Hornblende–biotite quartz diorite to granodiorite gneiss; medium to coarse grained*

1p *Biotite granodiorite gneiss containing K-feldspar megacrysts, seriate texture in part; medium to coarse grained*

1q *Quartz-rich gneiss; medium to coarse grained (possibly derived from deformed quartz veins)*



MAP 88-87
ST LEWIS RIVER

SCALE 1:100,000 ÉCHELLE

Miles 1 0 1 2 3 4 5 Milles

Kilometres 1 0 1 2 3 4 5 6 Kilomètres

MINERAL ABBREVIATIONS

Cu	chalcopyrite, malachite
py	pyrite
mu	muscovite
crn	corundum
ilm	ilmenite

SYMBOLS

Geological boundary (approximate, assumed, inferred from aeromagnetic data in areas of thick overburden)

Inferred primary igneous layering (inclined)

Foliation (horizontal, inclined, vertical, dip unknown)

Gneissosity (inclined, vertical, dip unknown)

Lineation (horizontal, inclined, combined with foliation)

Minor folds, plan view and fold axis (the folds illustrated here are only examples of a wide range of fold styles depicted on the map)

Fault (normal, aeromagnetic extrapolation, type unspecified)

Thrust (defined, assumed)

Sense of displacement from kinematic indicator

Antiform, synform (arrow indicates plunge)

Lineament (interpreted from aerial photographs)

Mineral occurrence — x cu, py

Gossan layer

Data station

Area of thick overburden

NOTES

1. *Granitoid terminology follows IUGS recommendations (Streckeisen, 1976; Earth Science Reviews, Volume 12, pages 1-33).*
2. *Age relationships are not implied by the order in which units are presented in each group of units, and are not completely known between groups.*
3. *The legend is combined for 13A/NE–3D/NW and 13A/SE–3D/SW; not all units are present on each map.*
4. *Units are indicated in order of decreasing abundance at each data station.*
5. *Unit symbols separated by a slash, e.g., 1g/4g, indicate alternative designations, preferred unit given first.*
6. *Map users are encouraged to reinterpret most map units designated by the same letter as possible equivalents, e.g., 4y = 5y.*
7. *Unit 3 does not occur on this map. Unit 3 consists of dioritic to granitic rocks and minor amphibolite, and occurs farther north in eastern Labrador (see Newfoundland Department of Mines and Energy Maps 83-45, 83-46, 86-73, 86-74, 86-75).*
8. *Units 11 and 12 on previous 1:100,000 scale geological maps for parts of eastern Labrador are equivalent to units 12 and 13 on this map.*

Geology by C.F. Gower, T. Van Nostrand and J. Smyth, 1987.

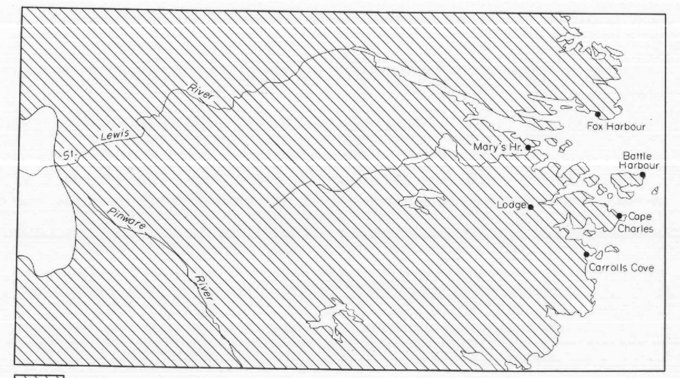
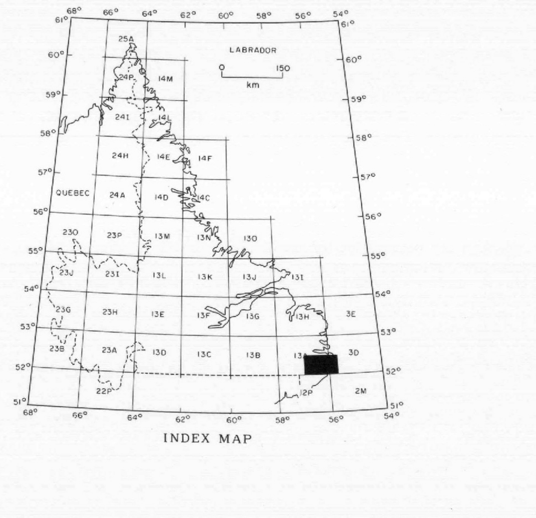
This preliminary map may be subject to revision and correction.

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

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

Base map enlarged from 1:250,000 scale map published by Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa.

Magnetic declination at centre of map was 30° 22' westerly in 1988, annual decrease 3.7' easterly.

Elevations in feet above mean sea level.

This project was funded under the Canada/Newfoundland Mineral Development Agreement (1984-1989) by contributions from the Department of Mines (50 percent), Government of Newfoundland and Labrador, and from the Department of Energy, Mines and Resources (50 percent), Government of Canada.