LEGEND

MISSISSIPPIAN

Deer Lake Group

C6 **Rocky Brook Formation:** *Reddish brown calcareous siltstone (in places containing carbonate nodules); gray siltstone; fine grained and very fine grained reddish brown and gray sandstone.*

C5 **North Brook Formation:** *Fine to coarse grained, gray, orange, reddish brown, and red sandstones; gray, orange, reddish brown, and red pebble to cobble conglomerate; calcrete limestone associated with red beds.*

Anguille Group

C3 *Dark gray micaceous siltstone and dolomitic siltstone; black carbonaceous mudstone; medium to coarse grained, gray, micaceous, lithic and arkosic sandstone; gray pebble to cobble conglomerate; laminated and thinly bedded impure limestone.*

C1 *Gray pebble to cobble carbonate and/or quartz conglomerate (clasts set in arenaceous matrix); dark gray micaceous siltstone and impure limestone; medium to very coarse grained gray sandstone.*

ORDOVICIAN-DEVONIAN

15 *Intrusive granitoid rock*

14 *Undivided volcanic rock*

ROCKS WEST OF GRAND LAKE

ALLOCHTHONOUS ROCKS

CAMBRIAN

Humber Arm Group

13 **Cooks Brook Formation: 13a,** *Platy gray limestone and black shale;* **13b,** *massive gray limestone;* **13c,** *limestone breccia.*

12 **Irishtown Formation: 12a,** *Dark gray to black shale and interbedded white and brown quartzite;* **12b,** *quartzite, quartzitic conglomerate, dark gray shale.*

11 **Summerside Formation:** *Green and red argillaceous sandstone and conglomerate; green and red shale.*

AUTOCHTHONOUS ROCKS

MIDDLE ORDOVICIAN

10 **Table Head Formation:** *Recrystallized limestone, shaly limestone, and shale.*

EARLY ORDOVICIAN

St. George Group

9 **Corner Brook Formation: 9a,** *Limestone beds interbedded with thinner dolostone beds;* **9b,** *dolostone.*

8 **Hughes Brook Formation:** *Dolostone, shaly dolostone, and chert lenses and zones.*

CAMBRIAN

Grand Lake Brook Group

7 *Phyllitic schist, phyllite, sericitic marble, marble breccia, metasandstone.*

LATE PRECAMBRIAN TO ORDOVICIAN

Fleur de Lys Supergroup

Mount Musgrave Group

6 *Semipelitic schist and psammitic gneiss;* **6a,** *banded feldspathic gneiss, metaconglomerate, and amphibolite;* **6b,** *feldspathic schists;* **6c,** *garnet-quartz-mica schists and micaceous quartzites;* **6d,** *calcareous schists and marbles.*

ROCKS ON GLOVER ISLAND AND EAST OF GRAND LAKE

ORDOVICIAN

5 **Pillow lava, agglomerate, massive diabase, and shale.**

4 **Pillow lava, tuff, and tuffaceous sediment, conglomerate at base of unit composed of volcanic and jasper clasts.**

3 **Glover Island Complex: 3a,** *Variably serpentinized ultramafic rock;* **3b,** *cumulate and massive gabbro.*

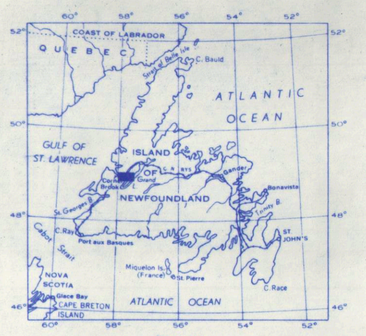
LATE PRECAMBRIAN TO ORDOVICIAN

Fleur de Lys Supergroup

2 *Semipelitic schist and psammitic gneiss;* **2a,** *interbedded schist and gneiss, micaceous quartzite and intraformational polymictic conglomerate;* **2b,** *calcareous schist, marble, and biotite schist, carbonaceous phyllite at top of unit.*

PRECAMBRIAN

1 **Glover Island Gneiss:** *Quartzofeldspathic biotite gneiss.*



INDEX MAP

SYMBOLS

Geologic boundary (approximate, assumed)

Bedding; tops known (inclined, vertical, overturned)

Bedding, tops unknown (inclined, vertical)

Foliation (inclined, vertical)

Primary igneous layering (vertical, top direction towards side with double triangle)

Fault (approximate, assumed; solid circle indicates downthrown side; arrow shows dip direction of fault plane)

Thrust fault (position assumed, teeth in direction of dip)

Assumed position of tectonic contact between allochthonous and autochthonous rocks; teeth point towards allochthonous rocks.

Anticline

Syncline

Plant fossil locality

Outcrop

Float

Mineral occurrence — Zn

Rock quarry (active, abandoned) — ls, sl

ABBREVIATIONS

Zn	zinc
sl	slate
m	marble
ls	limestone
bs	brick shale

Notes

Not all the Carboniferous units in the Deer Lake Basin occur in this map area. However, the numbering of the Carboniferous units is consistent between maps 792, 793, 7942, 7943, and 7944.

Carboniferous geology and outcrops shown in pre-Carboniferous rocks by R.S. Hyde, B.A. Alexander, D. Bragg, and W. Jacobs, 1978.

Pre-Carboniferous geology compiled from the following sources:

Hamilton, E.C. 1966. Report on 1966 exploration program, Patino Mining Corporation, Mineral Concession area, Grand Lake, Newfoundland, with 1:12,500 geologic map.

James, N.P. 1979. Personal information.

Kennedy, D. 1979. Personal information.

Knapp, D.; Kennedy, D.; and Marteneau, Y. 1979. Stratigraphy, structure, and regional correlation of rocks at Grand Lake, western Newfoundland. *In* Current Research, Part A, Geological Survey of Canada, Paper 79-1A, pages 317-325, with 1:250,000 map.

Knapp, D., 1979. Unpublished map and personal information.

Lilly, H.D. 1963. Geology of Hughes Brook-Goose Arm area, west Newfoundland. Memorial University of Newfoundland, Geology Report No. 2, St. John's, Newfoundland, 123 pages, with 1:50,000 map.

McKillop, J. 1961. Corner Brook limestone investigation. Newfoundland Department of Mines and Resources, unpublished report with map, 1" = 1000'.

Merrill, W.M. 1957. Industrial limestone in the Marble Head area, Newfoundland Department of Mines and Resources, unpublished report with map (approximate scale, 1" = 000').

Riley, G.C. 1957. Geology, Red Indian Lake (west half). Geological Survey of Canada, Map 1957-1, 253,440.

Walthier, T.N. 1949. Geology and mineral deposits of the area between Corner Brook and Stephenville, western Newfoundland. Geological Survey of Newfoundland, Bulletin 35, 87 pages, with 1:63,360 map.

Stevens, R.K. 1965. Geology of the Humber Arm area, west Newfoundland. M.Sc. thesis, Memorial University, St. John's, Newfoundland, 121 pages, with 1:50,000 map.

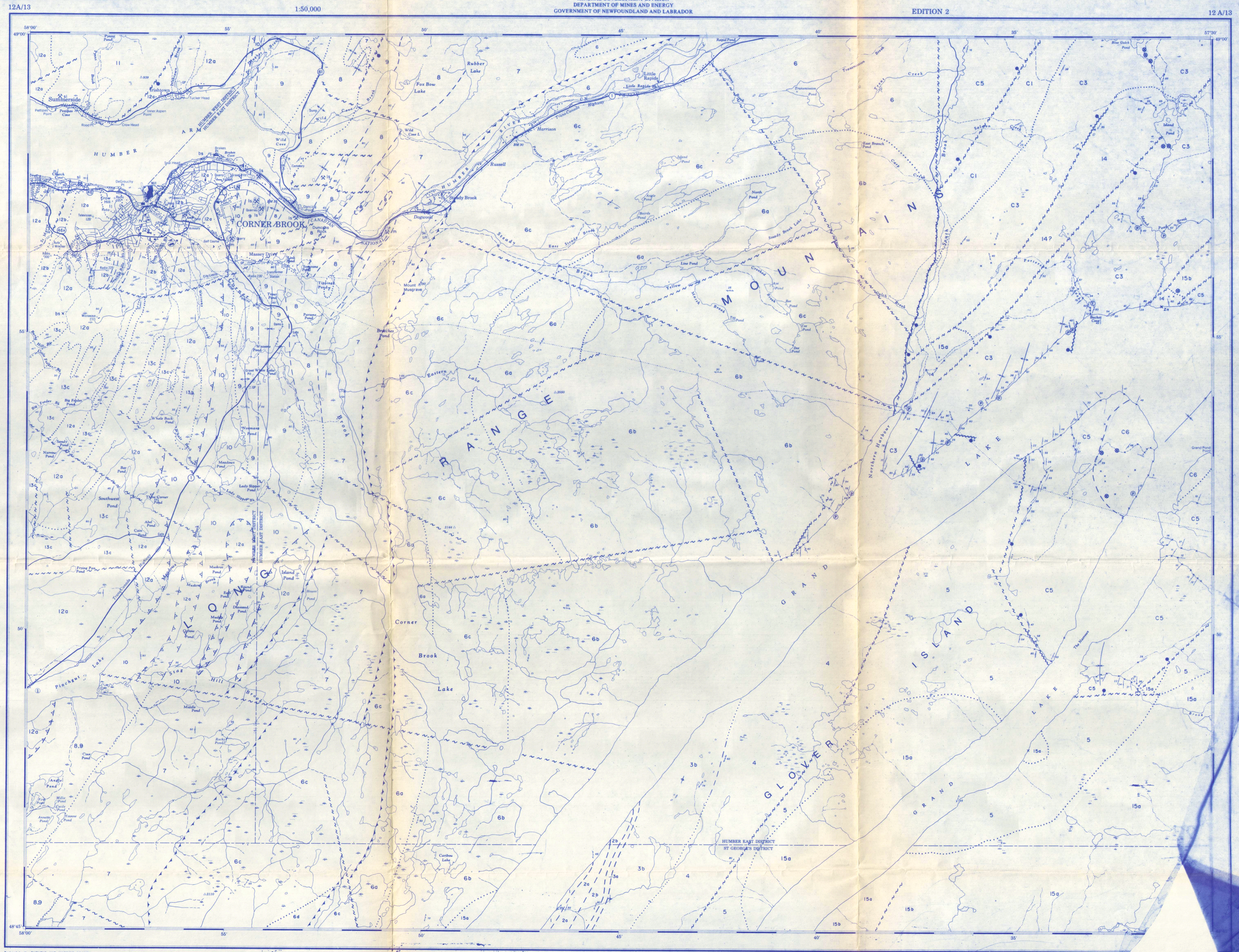
Geological cartography by Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.

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

Base map at same scale published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1973.

Approximate magnetic declination, 27°38', decreasing 2.9' annually.

This project was financed under the Canada/Newfoundland Mineral Development Subsidiary Agreement (1977-1981). This Agreement (a subsidiary of the Canada/Newfoundland General Development Agreement) is financed 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.



Produced by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY MINES AND RESOURCES, OTTAWA from aerial photographs taken in 1966. Culture check 1976. Printed 1977.

Copies may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, or your nearest dealer.

© Canada Copyrights Reserved 1973

Roads:	Routes:	Hard Surface	Revêtu Double Voie
hard surface, all weather	pavée, toute saison	Loose Surface	Non Revêtu Double Voie
hard surface, all weather	pavée, toute saison	Hard Surface	Revêtu 2 voies
loose or stabilized surface, all weather	gravier aggloméré, toute saison	Loose Surface	Non Revêtu 2 voies
loose surface, dry weather and	de gravier, temps sec et	Hard Surface	Revêtu 1 voie
winter (clear)	hiver (clair)	Loose Surface	Non Revêtu 1 voie
cart track	de terre		
trail or portage	sentier ou portage		

FOR COMPLETE REFERENCE SEE REVERSE SIDE — POUR UNE LISTE COMPLÈTE DES SIGNES, VOIR AU VERSO

MAP 7943
CORNER BROOK
NEWFOUNDLAND

Scale 1:50,000 Échelle

Miles 1 0 1 2 3 Milles

Metres 1000 0 1000 2000 3000 4000 Mètres

Feeds 1000 0 1000 2000 3000 4000 Yarges

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

ÉQUIDISTANCE DES COURBES 50 PIEDS
Élévations en pieds au-dessus du niveau moyen de la mer
Système de référence géodésique nord-américain, 1927
Projection transverse de Mercator

TABLEAU D'ASSEMBLAGE DU SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE

12A/12	12A/13	12A/14
12H/12	12H/13	12H/14

CORNER BROOK 12A/13