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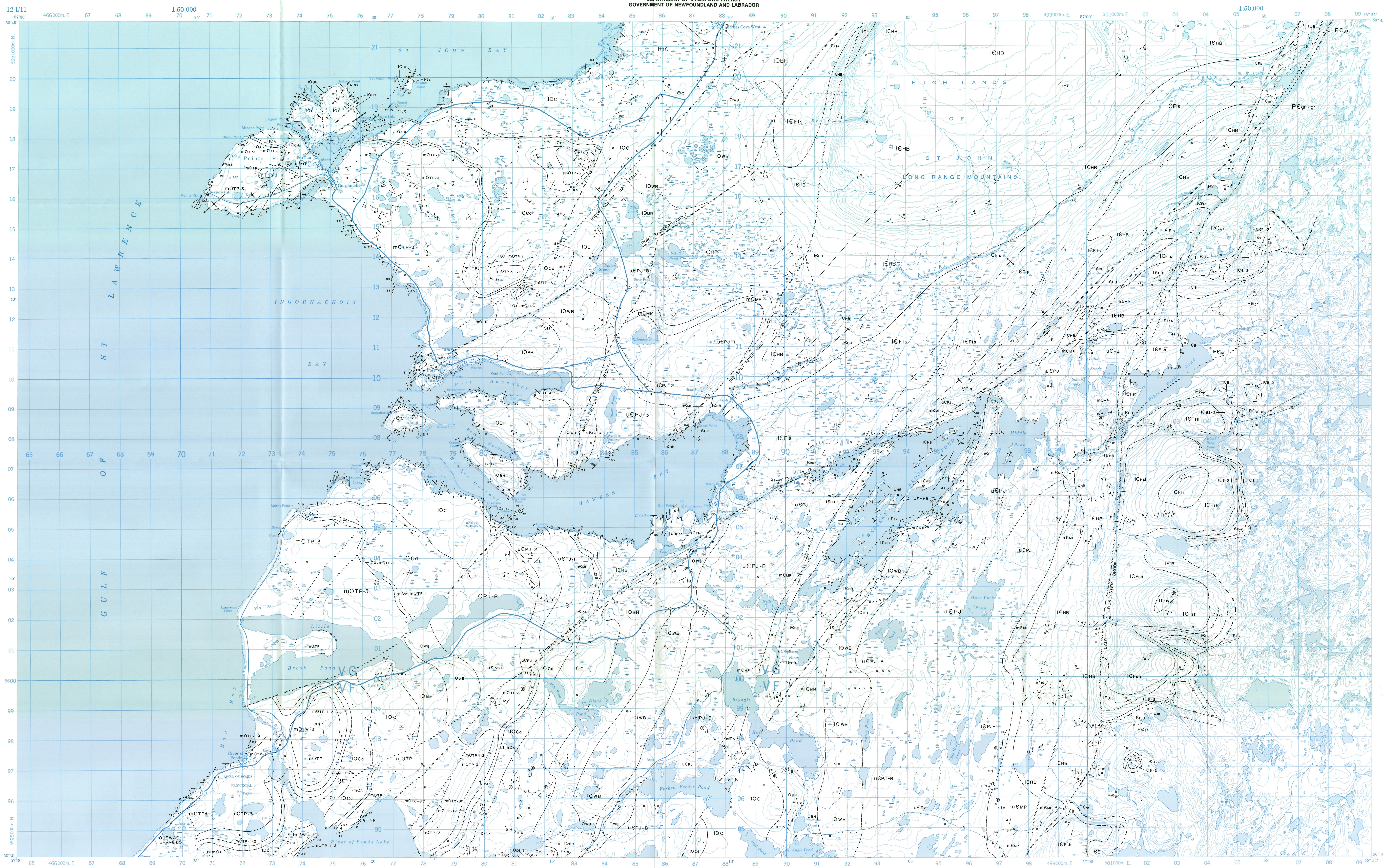
GEOLOGICAL SURVEY BRANCH
DEPARTMENT OF MINES AND ENERGY
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR



LEGEND

AUTOCHTHONOUS ROCKS

MIDDLE ORDOVICIAN

TABLE HEAD GROUP

- mOBC BLACK COVE FORMATION: *black shale*
- mOTC TABLE COVE FORMATION: *interbedded fine, thin bedded limestone and dark grey shale, slump beds*
- mOTP TABLE POINT FORMATION: *undivided;* TP-1 *cyclic limestone and dolomitic limestone or dolostone;* TP-2 *thick bedded, light grey to white, dominantly fenestral limestone;* TP-3 *well bedded, dark grey, fossiliferous limestone with characteristic dolomitic–argillaceous seams;* TPd *dolomitized equivalents*

EARLY TO MIDDLE ORDOVICIAN

ST. GEORGE GROUP

- l-mOA AGUATHUNA FORMATION: *light grey to grey dolostone having interbedded green-grey and grey shale; locally, bodies of matrix breccia*
- lOC CATOCHE FORMATION: *well bedded, grey, fossiliferous and bioturbated limestone associated with characteristic dolomite mottling, locally, microbial mounds;* Cd *diagenetic and epigenetic dolostone replacing Catoche limestone*
- lOBH BOAT HARBOUR FORMATION: *interbedded, dark to light grey, dolomitic limestone and buff dolostone, microbial limestone; dolomitization common throughout; widely preserved chert and matrix breccia bodies especially at base*
- lOWB WATTS BIGHT FORMATION: *dark grey to black, thick bedded, fine- to medium-crystalline dolostone characterized by light grey to cream mottling, and large microbial mounds, chert, dolarenite, thin beds of buff weathering, microcrystalline dolostone, gastropods and cephalopods locally*

MIDDLE TO LATE CAMBRIAN

PORT AU PORT GROUP

Late Cambrian

- uЄPJ-B Undivided Petit Jardin Formation–Berry Head Formation
- uЄPJ PETIT JARDIN FORMATION: *undivided, yellow, buff to white weathering light grey to grey, microcrystalline to finely crystalline dolostone;* PJ-1 *lower dolostone member–thin bedded dolostone, associated with interbedded green, grey and locally red dolomitic shale (sh) and some stromatolitic dolostone;* PJ-2 *middle stromatolite member–stromatolitic dolostone and limestone, oolitic dolostone and limestone, intraclastic dolorudite and limestone, thinly bedded dolostone, parted dolomitic limestone, some green, red and grey shale (sh);* PJ-3 *upper dolostone member–thick and thin bedded, light-grey dolostone, some dark-grey dolostone, minor oolitic dolostone, some shale interbeds;* PJ-4 *cherty dolostone member (to be called Berry Head Formation; thick- to thin-bedded, buff to white weathering, light-grey to dark-grey dolostone associated with chert common, stromatolitic dolostone common; large mounds of dark-grey to black stromatolitic dolostone locally at the base*

Late Middle Cambrian

- mЄMP MARCH POINT FORMATION: *dark grey, argillaceous dolostone, argillaceous parted limestone, bioturbated and fossiliferous limestone, minor shale intercalated with thin sandstone, dolostone and intraformational conglomerate at base*

EARLY ? TO LATE EARLY CAMBRIAN

LABRADOR GROUP

- lЄHB HAWKE BAY FORMATION: *white quartz arenite, rusty weathering, argillaceous sandstone, glauconitic and phosphatic sandstone, black calcareous mudstone-shale;* HBsh *green-grey shale and thin sandstone*
- lЄF FORTEAU FORMATION: *undivided limestone, shale and sandstone;* Fsh *lower shale member–basal pink to grey, nodular to massive shaly limestone and dolomitic limestone overlain by grey to black, fossiliferous shale with minor thin limestone and capped by interbedded grey shale and bioturbated, fossiliferous, argillaceous limestone and fine sandstone;* Fls *upper limestone member–grey to red, archeocyathid, reefal limestone and grainstone with some shale and sandstone, overlain by sandy limestone, oncolitic and fossiliferous, oolitic black limestone and some fossiliferous grey shale and sandstone*
- lЄB BRADORE FORMATION: *undivided red and grey sandstone;* B-1 *basal pebbly and granulose, friable, brown arkosic sandstone;* B-2 *middle grey to pinkish grey, flaggy, micaceous, very fine grained sandstone, siltstone and some grey shale;* B-3 *upper red arkosic sandstone and white quartzose sandstone with* Skolithus

UNCONFORMITY

PRECAMBRIAN

- PЄgn *Pink to red, micaceous, fine- to coarse-grained granite, locally with rafts of quartz–mica schist, banded quartzofeldspathic gneiss and hornblende–biotite–quartz gneiss*

SYMBOLS

- *Bedding (inclined, horizontal, vertical, overturned)*
- *Bedding (tops unknown)*
- *Cleavage*
- *Syncline, anticline, overturned*
- *Unconformity, disconformity*
- *Formational boundary (defined, approximate, assumed)*
- *Fault (defined approximate, assumed)*
- *Fault (dip, downthrow)*
- *Lineations from air photos*
- *Fossil*
- *Mineral showing*
- *Pyrite* .... py
- *Sphalerite* .... sp
- *Galena* .... gn
- *Outcrop (may be broken in place)*
- *Areas of rubble outcrop*
- *Roadstone quarry*

Geology by I. Knight, 1982 and 1983; W.D. Boyce and K. Austin, 1983.

This preliminary map may be subject to revision and correction.

Geological cartography by Geological Survey Branch, Department of Mines and Energy, Government of Newfoundland and Labrador.

Copies of this map may be obtained from the Publications and Information Section, Geological Survey Branch, Department of Mines and Energy, P.O. Box 8700, St. John's, Newfoundland, A1B 4J6.

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

Elevation in feet above sea level.

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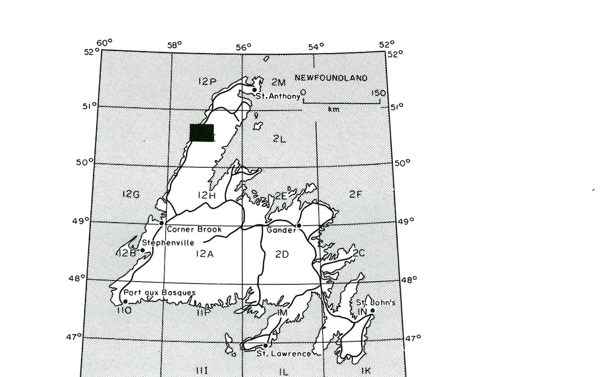

INDEX MAP

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Roads / Routes
loose or stabilized surface, all weather / gravier aggloméré, toute saison — 2 lanes or more / 2 voies ou plus; less than 2 lanes / moins de 2 voies
loose surface, dry weather and unclassified streets / de gravier, temps sec et rues hors classe
cart track / de terre
trail or portage / sentier ou portage

PORT SAUNDERS/TORRENT RIVER (western margin) NEWFOUNDLAND

MAP 91-174

Scale 1:50,000 Échelle

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

This Provisional Map is equivalent to a standard map in accuracy of content

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

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

Published 1992