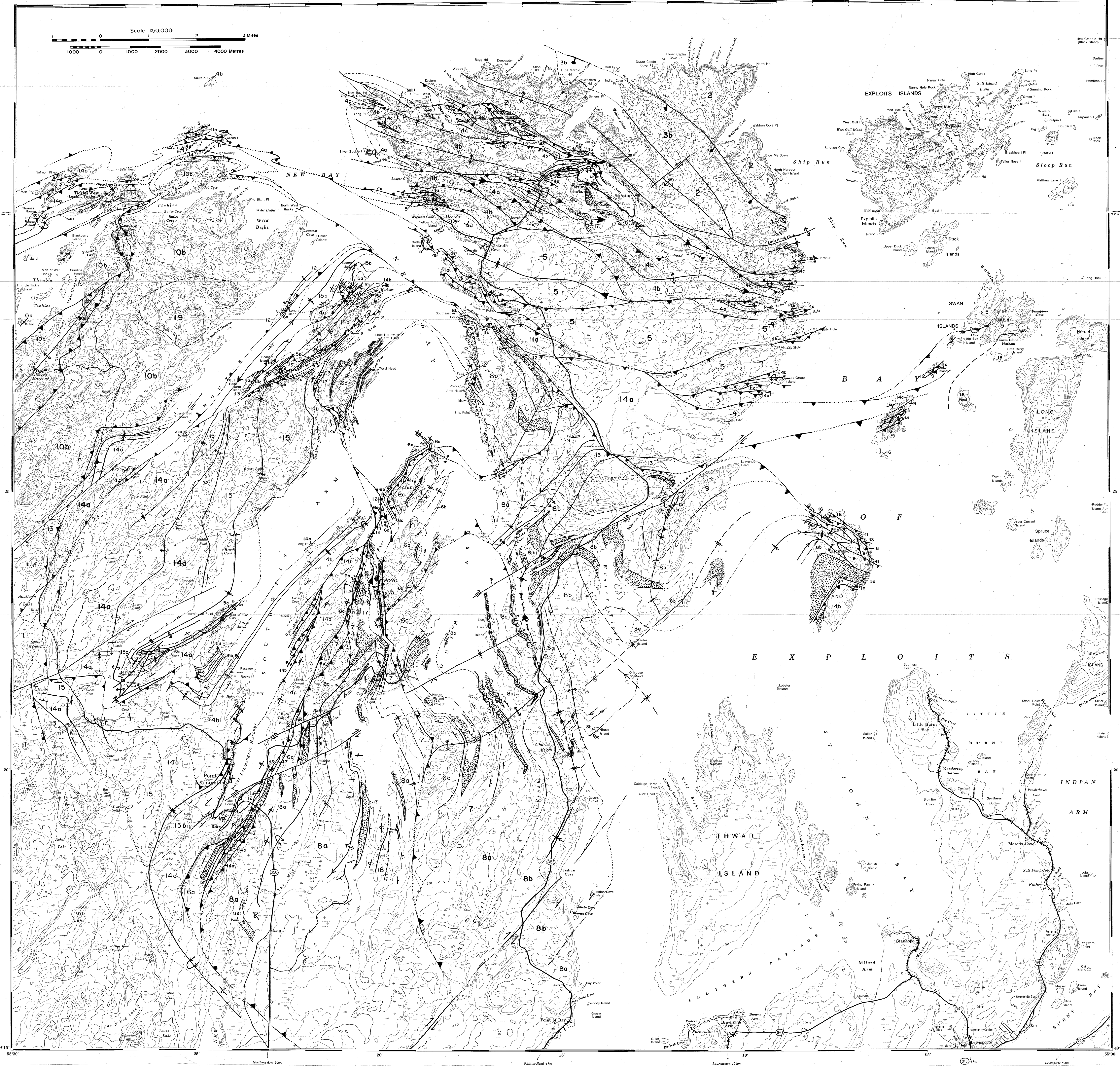


25 (797)
Map 90-124



**GEOLOGY OF THE NEW BAY AREA
(PARTS OF 2E6 AND 2E11)
NOTRE DAME BAY, NEWFOUNDLAND**
Scale 1:50,000
BRIAN H. O'BRIEN
1990
LEGEND

- JURASSIC**
BUDGELLS HARBOUR GABBRO
 [19] hornblende gabbro; biotite gabbro; hornblende pyroxenite; lamprophyre dykes
- SILURIAN OR DEVONIAN**
LONG ISLAND GRANDIORITE
 [18] hornblende biotite granodiorite; biotite granite; felsite; quartz feldspar porphyry
- SOUTH ARM GABBRO**
 [17] dykes, sills and sheets of gabbro, diorite and associated diabase and mafic pegmatite
- ORDOVICIAN AND SILURIAN**
BOTWOOD GROUP
 [16] unseparated units of limy shale, calcareous sandstone, siliceous wacke and rare limestone; interbedded mafic flows, feldspathic wacke, mafic breccia and laminated argillite; olistostrome and conglomerate containing blocks of reefal limestone and mafic volcanic rocks
- GOLDSON CONGLOMERATE**
 [15] polymictic conglomerate and pebbly to sandy wacke; 15a: well rounded, grey, boulder to cobble conglomerate containing distinctive clasts of reefal limestone; 15b: poorly sorted and stratified, grey, feldspathic and siliceous wacke
- ORDOVICIAN**
POINT LEAMINGTON GREYWACKE
 [14b] dark grey, carbonaceous shale and light grey, quartzfeldspathic wacke; olistostrome with black shale matrix
 [14a] interbedded grey shale and light grey, quartzfeldspathic wacke
- LAWRENCE HARBOUR SHALE**
 [13] unseparated units of black carbonaceous shale, black pyritiferous siltstone with black shale partings; grey chert with bioturbated black argillite laminae
- STRONG ISLAND CHERT**
 [12] interbedded, green ferruginous chert and reddish-brown feldspathic wacke; minor, green and red, laminated argillite; rare felsic tuff
- COBBES ARM LIMESTONE**
 [11] massive limestone, marble; interbedded limestone and calcareous wacke; 11a: tectonized equivalents within melange belts of the Boones Point Complex
- ORDOVICIAN OR EARLIER**
WILD BIGHT GROUP
PENNY BROOK FORMATION
 [10a] grey, grey-green and red argillite, laminated chert, grey tuffaceous sandstone; rare mafic pillow lavas
 [10b] mafic pillow lavas and flows; mafic agglomerate and pillow breccia
- EXPLOITS GROUP**
LAWRENCE HEAD VOLCANICS
 [9] mafic pillow lavas
- NEW BAY FORMATION**
 [8a] feldspathic wacke and grey argillite; minor conglomeratic to pebbly wacke
 [8b] thin bedded grey shale; interbedded grey shale and sandy wacke; conglomeratic to pebbly wacke (lower part of unit)
- SAUNDERS COVE FORMATION**
 [7] red chert; interbedded red and green, siliceous argillite; feldspathic wacke; minor conglomerate
- TEA ARM VOLCANICS**
 [6c] mafic pillow lavas, pillow breccia and agglomerate; minor feldspathic wacke and laminated argillite
 [6b] felsic tuff and agglomerate
 [6a] mafic pillow lavas
- COTTRELLS COVE GROUP**
MORES COVE FORMATION
 [5] thick bedded to thin bedded, reddish-brown feldspathic wacke; grey argillite
- FORTUNE HARBOUR FORMATION**
 [4c] felsic tuff and agglomerate; interbedded grey and red chert; siliceous argillite
 [4a] dark green, mafic pillow lavas well stratified, dark green, mafic agglomerate and pillow breccia
- MORETONS HARBOUR GROUP**
WESTERN HEAD FORMATION
 [3c] grey chert; minor red chert and siliceous argillite
 [3b] dark green, mafic pillow lavas well stratified, dark green, mafic agglomerate and pillow breccia
- SWEENEY ISLAND FORMATION**
 [2] coarse grained, porphyritic, mafic lava flows; sheeted diabase dykes with minor screens of lava flows

- SOUTH LAKE IGNEOUS COMPLEX**
 [1] amphibolized and chloritized layered gabbros; diabase dykes; trondhjemite; granodiorite
- KEY**
- Geological boundary (defined, approximate, assumed).....
 Bedding (inclined, overturned).....
 Anticline (upright, overturned).....
 Syncline (upright, overturned).....
 Fold axial trace (plunge direction indicated).....
 Antiform.....
 Synform.....
 Sideways-closing fold.....
 Thrust fault (teeth on upthrown side).....
 Normal fault (solid circle on downthrown side).....
 Strike-slip fault.....

NOTES

For the sake of simplicity, isolation symbols are purposefully omitted from all map units.

INDEX MAP

This preliminary open file map is subject to revision and correction. It is based on examination of shoreline and roadcut exposures and integration of these information sources with existing 1:50,000 scale maps of the region.

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

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

Elevations in feet above mean sea level; contour interval 50 feet.

Approximate mean declination (1990) for centre of map 25 degrees 14 minutes west.

Funding for mapping supplied solely by Geological Survey Branch, Department of Mines and Energy, Government of Newfoundland and Labrador.