11P/0119

LEGEND

GANDER ZONE

DEVONIAN

Ds — *Red and green conglomerate, sandstone, shale and limestone*

Dc — CHETWYND GRANITE: *massive, fine to coarse grained, equigranular to quartz porphyritic, biotite granite, and medium grained, K-feldspar porphyritic, biotite granite;* Dc_1, *fine grained, locally aplitic and miarolitic, equigranular, quartz-rich, biotite granite*

Df — FRANÇOIS GRANITE: Df_1, Df_{1a}, *massive, coarse grained, equigranular to K-feldspar porphyritic, biotite ± muscovite granite;* Df_2, *massive, medium to fine grained, equigranular to K-feldspar ± quartz ± plagioclase porphyritic, biotite granite;* Df_3, *massive, medium grained, K-feldspar-plagioclase porphyritic, biotite granite;* Df_4, *fine to medium grained, feldspar porphyritic granite*

Dg — *Massive, medium to fine grained, biotite ± hornblende granite*

Ddd — *Massive diabase dikes*

Dpig — PENGUIN ISLANDS GRANITE: *massive, medium grained, K-feldspar porphyritic, biotite granite*

SILURIAN-DEVONIAN

SDg — *Massive, medium grained, muscovite granite and felsite*

SDi — IRONBOUND MONZONITE: *massive to foliated, medium to coarse grained, biotite ± hornblende ± augite monzonite, monzodiorite, granodiorite and granite*

SDp — PETER SNOUT GRANITE: *massive, fine to medium grained, equigranular, biotite ± muscovite granite*

SDc — COCHRANE POND GRANITE: *massive to weakly foliated, fine to medium grained, equigranular, muscovite-biotite granite*

SDb — BUCK LAKE GRANITE: *weakly foliated, medium to coarse grained, equigranular to locally K-feldspar porphyritic, biotite granite*

SDn — NORTH BAY GRANITE: SDn_1, *weakly foliated, medium grained, equigranular to feldspar porphyritic, biotite ± muscovite granodiorite;* SDn_2, *same as* SDn_1 *except contains abundant metasedimentary xenoliths;* SDn_3, *massive to weakly foliated, medium to coarse grained, K-feldspar porphyritic, biotite-muscovite granite;* SDn_4, *massive to weakly foliated, medium to coarse grained, K-feldspar porphyritic, biotite granite;* SDn_5, *massive to locally strongly deformed, medium to coarse grained, equigranular to K-feldspar porphyritic, biotite ± muscovite granite*

SILURIAN?

Sd — DOLLAND POND FORMATION: *pebble conglomerate and breccia, interbedded with shale and sandstone*

Sp — PICCAIRE GRANITE: *weakly foliated, medium to coarse grained, equigranular, biotite granite*

Sg — GAULTOIS GRANITE: *foliated, coarse grained, K-feldspar porphyritic, biotite granodiorite and granite*

Sm — McCALLUM GRANITE: *foliated, fine to coarse grained, equigranular to K-feldspar porphyritic, biotite granite and granodiorite*

Sa — *Fine to coarse grained hornblende gabbro, including hornblendite, diorite and amphibolite*

Sb — BURGEO GRANITE: Sb_1, *foliated, coarse grained, K-feldspar porphyritic, locally xenolith-rich, biotite ± hornblende granodiorite, includes* Sb_{1a}, *foliated granodiorite, quartz diorite and tonalite, rich in diorite and gabbro xenoliths;* Sb_2, *foliated to massive, coarse grained, K-feldspar porphyritic, biotite granite and granodiorite, includes* Sb_{2a}, *granite and granodiorite containing numerous xenoliths and screens of metasedimentary rocks;* Sb_3, *weakly foliated to massive, coarse grained, variably K-feldspar porphyritic, biotite granite and adamellite;* Sb_4, *weakly foliated to massive, medium grained, K-feldspar porphyritic, biotite granite, includes* Sb_{4a}, *fine to medium grained, granite protomylonite, including minor mylonite and ultramylonite;* Sb_5, *foliated to massive, medium grained, equigranular to K-feldspar porphyritic, biotite ± muscovite granodiorite;* Sb_6, *weakly foliated to massive, medium to fine grained, equigranular, muscovite ± biotite ± garnet granite, and pink, porphyritic, biotite-poor granite*

St — *Foliated, medium to coarse grained, equigranular, hornblende ± biotite tonalite*

ORDOVICIAN?

Om — Om_1, *migmatite, agmatite and associated gneissic granitoid containing inclusions of amphibolite, metadiorite and gabbro; hornblende-biotite schist; hornblende diorite migmatite; xenolith-rich granitic gneiss;* Om_2, *migmatite, paragneiss, amphibolite; associated granitoid, variably migmatized and recrystallized pelitic and semipelitic schist*

GREY RIVER ENCLAVE

Ogr — Ogr_1, *felsic tuff and minor metasedimentary rocks;* Ogr_2, *pelitic to psammitic schist and phyllite, minor quartzite, amphibolite and migmatite;* Ogr_3, *pretectonic quartz veins;* Ogr_4, *migmatized pelitic to psammitic schist;* Ogr_5, *amphibolite and associated mafic schist and migmatite;* Ogr_6, *amphibolite and minor gabbro, hornblendite and peridotite;* Ogr_7, *xenolith-rich granitic to granodiorite gneiss;* Ogr_8, *agmatite*

LA POILE GROUP

LOg — GEORGES BROOK FORMATION: LOg_1, *rhyolite flows, ash-flow tuffs, agglomerate and epiclastic breccia; reworked volcaniclastic rocks; minor mafic flows, pyroclastics and dikes;* LOg_2, *gray, fine to medium grained, cross-stratified, feldspathic and quartz-rich sandstone;* LOg_3, *medium and coarse grained, massive to cross-stratified, blue-quartz-rich, arenaceous sandstone and pebbly sandstone; contains quartz-pebble conglomerate beds;* LOg_4, *angular to subangular, poorly sorted, massive to locally cross-stratified, quartz-pebble and quartz-cobble conglomerate*

Or — ROTI GRANITE: *massive to strongly foliated, fine to medium grained, equigranular, biotite granite; fine grained, K-feldspar porphyritic granite; quartz-feldspar porphyry*

Ob — BAGGS HILL GRANITE: *massive to weakly foliated, fine grained, quartz and feldspar porphyritic, biotite granophyre and granite; quartz-feldspar porphyry*

ORDOVICIAN

Os — SPRUCE BROOK FORMATION: *psammite and semipelite, including minor felsic schist; locally extensive quartz-pebble conglomerate and quartzite*

BAY DU NORD GROUP

BnO — BnO_1, *unseparated silicic and mafic volcanic rocks, graywacke, phyllite and amphibolite;* BnO_2, *mafic tuff and amphibolite;* BnO_3, *fine grained, felsic pyroclastic rocks, including lineated feldspathic schist;* BnO_4, *rhyolite, welded tuff and felsite;* BnO_5, *siliceous bedded tuff;* BnO_6, *quartz-rich sandstone, quartz-pebble conglomerate and pebbly sandstone;* BnO_7, *gray and black slate and phyllite;* BnO_8, *thin to thick bedded, gray psammite, semipelite, phyllite, sandstone, siltstone and shale; rare boulder conglomerate*

BAIE D'ESPOIR GROUP

BOs — SALMON RIVER DAM FORMATION: *mainly psammite, including pyritiferous pelite, calcareous psammite and limestone*

BOl — LITTLE PASSAGE GNEISS: BOl_1, *pelitic, semipelitic and psammitic schist, including amphibolite and migmatite, intruded by profuse, concordant, leucogranite veins;* BOl_2, *laminated pelite, semipelite, psammite and amphibolite, containing minor fine grained, felsic tuff bands*

BOr — RICHES ISLAND FORMATION: *laminated, commonly porphyroblastic, semipelite that locally contains coticule layers, and thin to thick bedded psammite; includes minor quartzite and arkosic arenite*

BOi — ISLE GALET FORMATION: BOi_1, *gray to black laminated pelite, commonly garnetiferous, containing minor, interbedded, fine grained, felsic tuff and sericite phyllite;* BOi_2, **Stanley Cove Member**, *fine to coarse grained, felsic, lapilli tuff, massive ash-flow tuff and minor interflow pelite; minor, fine grained, thinly laminated, felsic tuff, locally recrystallized and garnetiferous in areas of profuse leucogranite veining;* BOi_3, *black, graphitic pelite containing local zones of sandstone, conglomerate and minor marble;* BOi_4, *mostly black, graphitic pelite, minor felsic tuff, amphibolite and arenite;* BOi_5, *graphitic pelite, semipelite, thin to thick bedded arenite, and banded concordant amphibolite*

ORDOVICIAN OR EARLIER

Omu — *Mafic and ultramafic rocks: massive, layered metagabbro; metadiabase; minor pyroxenite and peridotite, and rare mafic volcanic rocks*

AVALON ZONE

DEVONIAN

Dpi — PASS ISLAND GRANITE: *medium to coarse grained, biotite granite*

HADRYNIAN

Hg — GROLE DIORITE: *quartz diorite to diorite containing volcanic inclusions; medium to coarse grained, hornblende-pyroxene gabbro; numerous mafic and felsic dikes*

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

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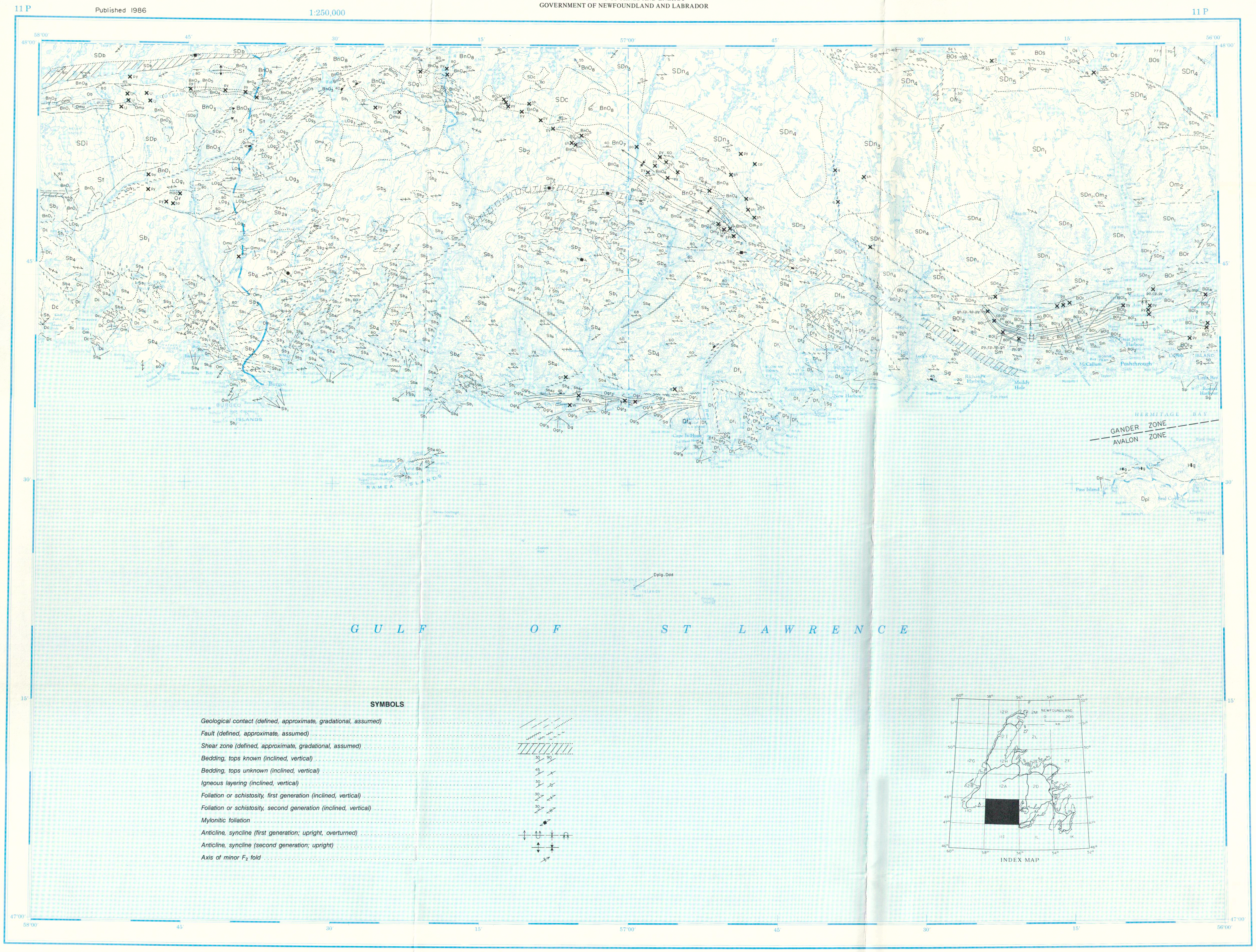

SYMBOLS

Geological contact (defined, approximate, gradational, assumed)
Fault (defined, approximate, assumed)
Shear zone (defined, approximate, gradational, assumed)
Bedding, tops known (inclined, vertical)
Bedding, tops unknown (inclined, vertical)
Igneous layering (inclined, vertical)
Foliation or schistosity, first generation (inclined, vertical)
Foliation or schistosity, second generation (inclined, vertical)
Mylonitic foliation
Anticline, syncline (first generation; upright, overturned)
Anticline, syncline (second generation; upright)
Axis of minor F_2 fold

MAP 86-32

BURGEO
NEWFOUNDLAND

Scale 1:250,000 Échelle

Transverse Mercator Projection
North American Datum 1927
Contour Interval 100 feet
Elevations in feet above Mean Sea Level

ABBREVIATIONS

asp	arsenopyrite	py	pyrite
by	beryl	q	quartz
cp	chalcopyrite	sb	stibnite
cu	copper	sh	scheelite
gn	galena	sp	sphalerite
mag	magnetite	u	uranium
mo	molybdenite	w	wolframite
po	pyrrhotite		

Compilers: S. J. O'Brien and W. L. Dickson

Geology compiled from the following Newfoundland Department of Mines and Energy Open File Maps: Chorlton, 1980 (11P/13W: Map 80201), O'Brien, 1982 (11P/13E: Map 8259), Blackwood, 1982, 1983 (11P/9: Map 8261; 11P/15W: Map 83107), O'Brien and Tomlin, 1983 (11P/14: Map 83109), Dickson and Delaney, 1984 (11P/11: Map 8426), Dickson and Tomlin, 1984 (11P/16: Map 8429), Dickson et. al., 1984 (11P/11: Map 8462; 11P/10: Map 8463), O'Brien and Tomlin, 1984 (11P/12: Map 8464). Geology of the Hermitage Peninsula from unpublished M.Sc. thesis map by C.F. O'Driscoll.

This preliminary map is subject to revision.

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

Approximate magnetic declination, 1986, for centre of map is 25°34' west, decreasing 3.2' annually.

Elevation in feet above mean sea level.

Copies of this map 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, Canada, A1C 5T7.