



GOVERNMENT OF
NEWFOUNDLAND AND LABRADOR
Department of Mines and Energy
Geological Survey Branch

- LEGEND**
- Mafic dyke (age unknown)
 - Fine grained, dark green grey, generally less than 5 m wide
- MISSISSIPPIAN**
- DEER LAKE GROUP (VISEAN)**
- North Brook and/or Rocky Brook Formations
 - uMns** - Red, friable sandstone, pebbly sandstone and conglomerate; **uMns1** basal grey conglomerate of carbonate clasts; **uMns2**, red and dark brown grey mudstone; minor, thin, grey limestone, stromatolitic limestone locally on basal unconformity
- MIDDLE ORDOVICIAN**
- GOOSE TICKLE GROUP**
- mOcr** Grey phyllites, slate, shale, with interbedded thin bedded limestone and dolostone, green-grey sandstone and siltstone; **mOcr1**, thin carbonate conglomerate, generally undifferentiated; locally melange-like with green-grey and blue-grey mudstone
 - mOdh** Daniel's Harbour Member: coarse limestone conglomerate and breccia within Goose Tickle Group
- TABLE HEAD GROUP**
- mOtc** Table Cove Formation: thin bedded fine-grained limestone and dark-grey shale
 - mOtr** Table Point Formation: **mOtr1** upper unit of rubby to lumpy, stylonitic, limestone breccia, locally well developed coarse limestone breccia having large carbonate rafts set in a muddy to fine-grained carbonate matrix; **mOtr2**, dark grey, thick bedded, stylonitic to stylonoid; limestone locally displaying abundant circular detritus, rare fossils; chert; **mOtr3** Spring Inlet Member: interbedded grey and light-grey limestone and dolostone, limestone include parted stylonitic, bioturbated and locally grainy types, some oncoidic beds, rare fossils; dolostone are massive and laminated
- LOWER ORDOVICIAN TO LOWEST MIDDLE ORDOVICIAN**
- ST. GEORGE GROUP**
- IOa** Agathana Formation: light grey, microcrystalline dolostone, dolomite, interbedded with grey to off-white, stromatolitic and stromatolitic limestone, locally carbonate breccias of collapse origin
 - IOc** Calocha Formation: grey dolomitic limestone, characteristically bioturbated, locally containing thrombolite mounds; **IOc1** Costa Bay Member: upper member of off-white, interbedded grainy and laminated limestone and light grey dolomite, rare thrombolitic mounds, locally brecciated
 - IOh** Boat Harbour Formation: interbedded dark grey, grey, blue grey and off-white, bioturbated, parted, stromatolitic, thrombolitic, grainy and laminated limestone and massive and laminated light grey to grey dolostone, rare chert, locally brecciated at base; **IOh1** basal unit of off-white to light grey limestone laminae locally
 - IOw** Watts Bight Formation: dark grey to almost black, cherty, burrow-mottled, microbial-mottled thrombolitic mounds; **IOw1** Costa Bay Member: upper member of off-white, interbedded grainy and laminated limestone and light grey dolomite, rare thrombolitic mounds, locally brecciated
- MIDDLE TO UPPER CAMBRIAN**
- PORT AU PORT GROUP**
- UCb** Berry Head Formation: **ucb1** off-white conglomerate limestone/marble; **ucb2**, upper member of interbedded burrowed, stromatolitic, parted, grainy and laminated dark grey to off-white limestone and massive to laminated dolostone; **ucb3**, lower member of dominantly thick bedded light grey to cream dolostone, chert locally in the lower part
 - UCr** Petit Jardin Formation: dominantly light grey, microcrystalline dolostone, dolomite and argillaceous dolostone, cross-bedded dolomite and massive dolostone dominate eastern thrust slices; **ucr1** and **ucr2**, microcrystalline dolostone, light grey, massive, laminated and argillaceous, locally stromatolitic, cross-bedded; limestone locally preserved in **ucr3**; **ucr4**, middle member of interbedded oolitic and stromatolitic limestone, dolomite and argillaceous dolostone in western thrust slices
 - mCmp** March Point Formation: grey oolitic, oncoidic and bioturbated limestone, a lower unit of shale, stromatolitic and intraclastic-oncoidic limestone, upper part dolomitized
- MIDDLE TO LOWEST UPPER CAMBRIAN**
- mCrh** Reluctant Head Formation: **mCrh1** grey phyllite, thin bedded dolomitic and phyllitic, fine-grained limestone and interbedded limestone conglomerate (**mCrh2**); **mCrh3**, cross-bedded dark grey limestone and dolostone
- LOWER TO MIDDLE CAMBRIAN**
- lMCPc** Penguin Cove Formation: interbedded thin and thick bedded, grey, quartz arenite, sandstone and dolomitic sandstone and grey shale or phyllite, mudstone with sandstone dykes and pillows, intraclastic, skeletal, oncoidic and stromatolitic limestone and dolostone
- CAMBRIAN OF UNKNOWN AFFINITY**
- Cpslp** Polydeformed psammite and pelite
- PRECAMBRIAN TO CAMBRIAN/ORDOVICIAN**
- PC-CIOHA** Humber Arm Allochthon: psammite, pelite, shale, slate, thin bedded limestone and limestone conglomerate; **PC-CIOHA1** layered ultramafic
 - PC-COMP** Old Man Pond Allochthon: psammite, pelite, slate, thin bedded limestone and limestone conglomerate; **PC-COMP1** layered ultramafic
 - PC-CMW** Mount Musgrave Group: psammite, pelite
 - PC-CL** Hughes Lake Complex: mafic and felsic metavolcanic, subalkalic granite
- SYMBOLS**
- Boundary (defined, approximate, assumed)
 - Unconformity/disconformity
 - Bedding (tops known, unknown, inverted)
 - Co-planar bedding/cleavage
 - Cleavage, schistosity, undefined, S₁, mylonitic schistosity
 - Anticline and synclinal fold axes (upright, recumbent, downward-facing anticline, upward-facing syncline)
 - Thrust fault (teeth indicate hanging wall, lines indicate inverted relationship due to later deformation)
 - Fault (defined, undefined, normal, reverse)
 - Minor folds, plunge shown
 - Linstation, plunge shown
 - Shear zone
 - Mineral showing (pyrite, galena, sphalerite)
 - Marble showing, prospect
 - Outcrop, no measurement
- Mapping by I. Knight (1991, 1993), D. Dunphy (1993) and D. Fraser (1993).
Compiled by I. Knight.
This map is preliminary and subject to change.
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MAP #93-163
FILE # 12H/04/1276

PASADENA
NEWFOUNDLAND TERRE-NEUVE

Scale 1:50 000 Échelle

CONVERSION SCALE FOR ELEVATIONS
Mètres 0 50 100 200 300 400
Feet 0 100 200 300 400

CONVERSION SCALE FOR ALTITUDES
Mètres 0 100 200 300 400
Feet 0 100 200 300 400

CONTOUR INTERVAL 10 METRES
ELEVATION IN METRES
North magnetic declination 1997
Vertical datum: Mean Sea Level

PROJECTION: UTM
Datum: NAD 83
Zone: 18N

PASADENA
12 H/4
EDITION 3

Energy, Mines and Resources Canada
Énergie, Mines et Ressources Canada