**Note:** Map 95-20B, Geological Dips and Strikes to accompany Map 95-20A, Geological Boundaries.

*Mapping by I. Knight (1994, 1995); additional readings north of Humber River and Wild Cove from Cawood and van Gool (1994) and VMS Consultants Inc. by permission of J.M. Thurlow.*

*Map 95-20, Open File No NFLD/2604*

*This map is preliminary and subject to change.*

*Geological descriptions of these map areas is found in:*

*Knight, I.*

*1995: Preliminary 1:50 000 mapping of Lower Paleozoic parautochthonous sedimentary rocks of the Corner Brook area. In Current Research (1995) Newfoundland Department of Natural Resources, Geological Survey, Report 95-1, pages 257-265.*

*1996: Geology of Cambro-Ordovician carbonate-shelf and co-eval off-shelf rocks, southwest of Corner Brook, western Newfoundland. Geological Survey, Department of Mines and Energy, Government of Newfoundland and Labrador Open File NFLD/2602.*

*Recommended citation: Knight I., 1996: Geological map of parts of the Little Grand Lake (12A/12), Corner Brook (12A/13), Georges Lake (12B/9) and Harrys River (12B/16) map areas. Geological Survey, Department of Natural Resources, Government of Newfoundland and Labrador, Map 95-20, scale 1:50 000. Open File No. NFLD/2604.*

*This project was financed under the Canada – Newfoundland Cooperation Agreement on Mineral Development, 1994-1996.*

Scale 1:50 000

kilometres

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

# LEGEND

## Map 95-20 A&B /B

**Geological map of parts of the Little Grand Lake (NTS12A/12), Corner Brook (NTS12A/13), Georges Lake (NTS12B/9) and Harrys River (NTS12B/16) map areas. Open File NFLD/2604**

**I. Knight**

**Geological Survey, Department of Natural Resources, Government of Newfoundland and Labrador**

**Scale 1:50 000.**

**CARBONIFEROUS**

C sp — *Narrow, fracture- and fault-controlled cave-fills of red and rare grey siltstone, sandstone and conglomerate*

**DOMAIN 1**

**CAMBRIAN**
**Curling Group**

Cl — Irishtown Formation. *White-weathering, grey quartzitic metasandstone, grey and green-grey phyllite*

ЄPn/mOGT — *Grey slate and phyllite of unknown affinity*

**DOMAIN 2 AND SUBDOMAINS 3A AND 3C**

**MIDDLE ORDOVICIAN**
**Goose Tickle Group**

mOGT — *Grey phyllites, slate and shale, with interbedded thin-bedded limestone and dolostone, minor limestone conglomerate, green-grey sandstone and siltstone;* **mOGTm**, *broken formation of similar rock types and also some green-grey and blue-grey phyllite of allochthonous origin*

**Table Head Group**

mOTP — Table Point Formation *(undivided).* **mOTP2**, *dark grey, thick-bedded, stylolitic to stylonodular, argillaceous and dolomitic limestone locally displaying fossils and chert, some units of thin-bedded, ribbon limesone in the southwest;* **mOTP1**, Spring Inlet Member, *interbedded grey and light-grey limestone and dolostone; limestone includes parted stylolitic, bioturbated and locally grainy types, some oncolitic beds, rare fossils, dolostone is massive and laminated*

**LOWER ORODOVICIAN TO LOWEST MIDDLE ORDOVICIAN**
**St. George Group**

lOA-CB — Undivided Aguathuna Formation and Costa Bay Member, Catoche Formation. **lOA**, Aguathuna Formation: *light grey, microcrystalline and argillaceous dolostone, dololaminite, interbedded with grey to off-white limestone, locally carbonate breccias of collapse origin;* **lOCB**, Costa Bay Member, *off-white limestone, locally grainy and laminated, light-grey dololaminite in some sections, rare thrombolitic mounds, locally brecciated*

lOC — Catoche Formation. *Grey to dark grey, dolomitic limestone, characteristically bioturbated, locally containing thrombolite mounds and large molluscs*

lOBHb — 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*

lOWB — Watts Bight Formation. *Dark grey to almost black, cherty, burrow-mottled, microbial-mottled thrombolitic moundstone in lower part; upper part is dominated by clean grey limestone with rare mounds, burrowed beds and crossbeds; thin to locally metre-thick dolostone and dololaminite beds throughout*

**MIDDLE TO UPPER CAMBRIAN**
**Port au Port Group**

uCBH — Berry Head Formation *(undivided).* **uCBH3**, *off-white conglomerate limestone;* **uCBH2**, *upper member of interbedded burrowed, stromatolitic, parted, grainy and laminated dark-grey to off-white limestone and massive to laminated dolostone;* **uCBH1**, *lower member of thick bedded, grey, cream pink and purple dolostone, chert and thrombolite mounds locally in the lower part*

uCPJ — Petit Jardin Formation. *Light grey, pink and purple, microcrystalline dolostone, dololaminite and argillaceous dolostone;* **uCPJ1** *and* **uCPJ3**, *dolostone as above;* **uCPJ2**, *middle member of grey to off-white, interbedded oolitic, stromatolitic and parted limestone and dololaminite and argillaceous dolostone*

uCPJ-BH — Undivided Petit Jardin and Berry Head formations. *Predominantly grey, pink and purple dolostone and argillaceous dolostone, dolomite breccias locally*

mCMP — March Point Formation. *Grey, bioturbated limestone with minor oolitic and oncolitic limestone, a lower unit of phyllite and ribbon limestone. Top of the formation is locally dolomitized*

**MIDDLE TO LOWEST UPPER CAMBRIAN**

mCRH — Reluctant Head Formation. *Grey phyllite, thin bedded dolomitic and phyllitic, fine-grained limestone, minor interbedded limestone conglomerate;* **mCRH1**, *crossbedded and massive dark grey limestone and dolostone*

**MIDDLE CAMBRIAN**

mCPC — Penguin Cove Formation. *Interbedded thin bedded grey slate and phyllite, white -weathering, grey, quartzose siltstone and very fine-grained sandstone locally displaying slump folds and sandstone dykes and pillows, fossiliferous, stylonodular and argillaceous ribbon limestone and dolostone*

**CAMBRIAN**

ЄSl — *Unnamed grey slate and phyllite*

**SUBDOMAINS 3B AND 4B**

**CAMBRIAN – ORDOVICIAN**
**Pinchgut Lake Group**

C-OPgL — *Grey and silver-grey phyllite, slate, calcareous and dolomitic phyllite, ribbon limestone, oolitic and quartzitic limestone, limestone conglomerate;* **PgL1**, *limestone conglomerate;* **PgL2**, *marker of oolitic and quartzitic limestone, dolostone and limestone conglomerate;* **PgLm**, *micaceous phyllite and conglomeratic and crystalline grey marble* **(CPgLm-1)** *(Breeches Pond Formation of Cawood and van Gool, 1994)*

**DOMAIN 5**

**CAMBRIAN – PRECAMBRIAN?**
**Mount Musgrave group**

Pc-CM — *Quartzitic psammite, green-grey to pink chloritic marble, grey pelite*

**PRECAMBRIAN**

PC Gn — *Granitic gneiss, amphibolitic gneiss, micaceous schist*

**Symbols**

*Boundary (defined/approximate, assummed)*
*Unconformity/disconformity*
*Bedding (tops known, unknown, inverted)*
*Co-planar bedding/cleavage*
*Cleavage, schistosity, undefined or S1 where S2 and/or S3 indicated, S2, S3*
*Fracture cleavage*
*Joint*
*Mylonitic foliation*
*Anticlinal and synclinal fold axis*
*Thrust fault (teeth indicate hangingwall, tine indicates present dip)*
*Fault*
*Minor folds, plunge shown, F2, F3*
*Lineation, plunge shown, L2, L3*
*Mineral showing (pyrite)*
*Outcrop, no measurement, broken*
*Fossil*
*Breccia*

MAP 95-20
G.S.B NFLD 2604