MAP # 95-20
G.S.B NFLD 2604

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

LEGEND

Map 95-20 A&B /A

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

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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*

Є$_{Pu}$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)*, **mOtp$_2$**, *dark grey, thick-bedded, stylolitic to stylonodular, argillaceous and dolomitic limestone locally displaying fossils and chert; some units of thin-bedded, ribbon limestone in the southwest;* **mOtp$_1$**, *Spring Lake 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 ORDOVICIAN 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 mounstone 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)*, **uCBH$_3$**, *off-white conglomerate limestone;* **uCBH$_2$**, *upper member of interbedded burrowed, stromatolitic, parted, grainy and laminated dark-grey to off-white limestone and massive to laminated dolostone;* **uCBH$_1$**, *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;* **uCPJ$_1$** *and* **uCPJ$_3$**, *dolostone as above;* **uCPJ$_2$**, *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;* **mCRH$_1$**, *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
Є*si* — *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-l) (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

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.

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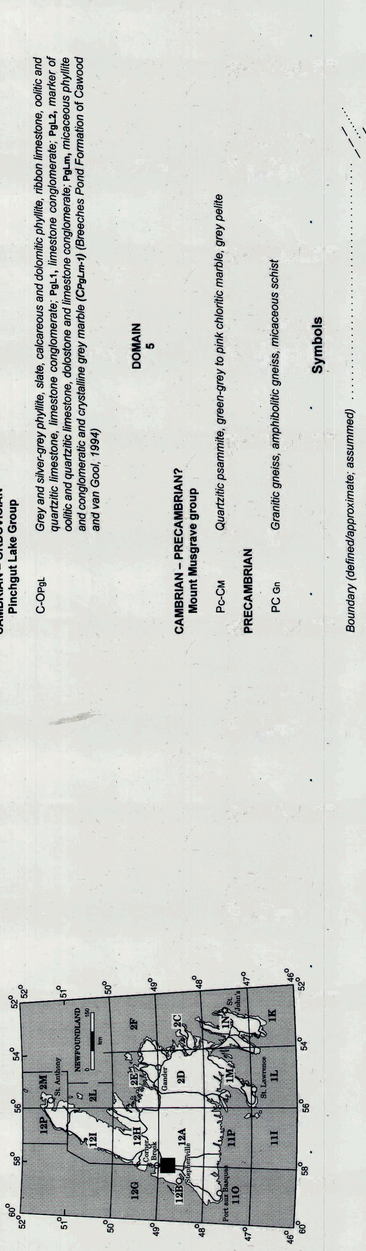

Scale 1:50 000

0 1 2 3 4 5

kilometres

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