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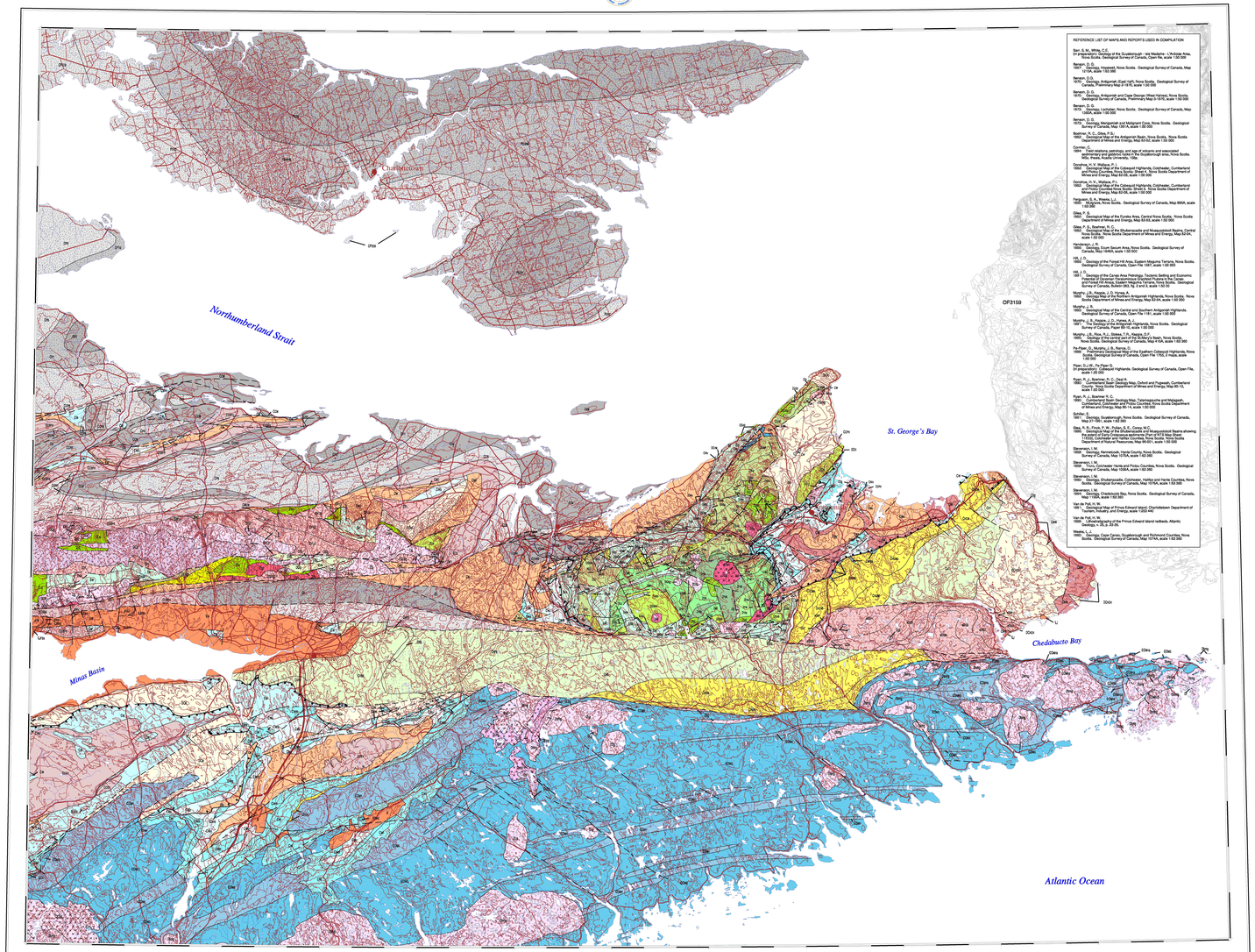
GEOLOGICAL SURVEY OF CANADA | COMMISSION GÉOLOGIQUE DU CANADA

cgq | carte géologique et guides



Published 1997

Copies of the map may be obtained from the Geological Survey of Canada
601 Booth St., Ottawa, Ontario, K1A 0E8

LOCATION MAP / CARTE DE LOCALISATION

Electronic plot produced by the Geological Survey of Canada

Digital base map assembled and modified by the Geological Survey of Canada from digital bases compiled by the Canada Centre for Geomatics

Mean magnetic declination 1997 estimated to be 20° 49'W at coordinates 45 °00'N and 62° 30'W

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1997 Geological Compilation, Central Nova Scotia and Prince Edward Island, Nova Scotia. Geological Survey of Canada, Open File 3484, scale 1:250 000.

COMPILATION MAP, GEOLOGY

CENTRAL NOVA SCOTIA

AND PRINCE EDWARD ISLAND

Scale 1:250 000/Echelle 1/250 000

Kilometres 0 5 0 5 10 15 20 Kilometres

Conformal Conic Projection
Projection conique conforme
Lambert
North American Datum 1927
Nord américain de référence 1927
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NATMAP CANMAP
Canada's National Mapping Mapping Program
Le programme national de cartographie géoscientifique du Canada

OPEN FILE DOSSIER PUBLIC
3484
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
1997

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE

STRATIFIED ROCKS

CRETACEOUS

K — (K)red and grey clay, kaolin, silica sand, lignite

JURASSIC

JTr — **Jkn**

TRASSIC - JURASSIC

TrJu — **Tr**

PERMIAN - CARBONIFEROUS

PCm — **PCpa** — **PCmb** — **PMC** — **(PCm)**

CARBONIFEROUS

WESTPHALIAN

Cbk — **Cbkb** — **Cbkk** — **Cbkl** — **Cbkp** — **Cbkw** — **Cbkr** — **Cbk** — **Cbf** — **Cbl** — **Cbr** — **Cbfh** — **Cbh** — **Cbb** — **Cbm** — **Cbv** — **Cbh**

NAMURIAN

Cbe — **Cbbk** — **Cbc** — **Cbi** — **Cbt**

VISÉAN

Cv — **Cvt** — **Cvh** — **Cvk** — **Cvb** — **Cvbm** — **Cvv** — **Cvh**

DEVONIAN - CARBONIFEROUS

FAMENIAN-TOURNAISIAN

DCc — **DMH** — **DCb** — **DCbk** — **DMF** — **DR** — **DL** — **DCe** — **DH** — **DCrk** — **DCf** — **DCm** — **DCbh** — **DCbv** — **DCw**

DEVONIAN - CARBONIFEROUS

HORTON GROUP

(DCc) undivided Devono-Carboniferous Rocks, possibly Horton Group equivalent: grey and reddish-brown polymictic conglomerate, grey and pale red feldspathic sandstone, red mud shale, and grey shale, in part highly bituminous; thin beds of fresh-water limestone occur in association with grey shales, and local volcanic rocks

(DCc) Cobequid Mountain Formation: fluvial conglomerate, sandstone and minor shale: 0 - > 100m (Chamaberr (Courceyan)?/Ch-Tr/U2 spores and fauna). Unconformable on Meguma Group

(DCm) Smithfield Formation: red and grey conglomerate, sandstone, mudstone, typically cross-stratified

(DCm) undivided Caledonia Mills Formation: red to maroon siltstone and sandstone; grey thinly bedded quartz arenite, siltstone, calcareous arenite, polymictic pebble conglomerate

(DCm) upper Caledonia Mills Formation: red to maroon siltstone and sandstone; grey, thinly bedded quartz arenite

(DCm) lower Caledonia Mills Formation: grey to green laminated siltstone interlayered with red to maroon siltstone

(DCb) Salmon River Formation: siltstone, quartz arenite, and pebble conglomerate, interlayered with minor shale and siltstone

(DCe) Barneys Formation: grey to green medium-grained interbedded sandstone, siltstone, and shale

(DCh) Litchfield Formation: green and red siltstone with minor interlayered conglomerate siltstone, and mudstone

(DCrk) Nuttby Formation: alluvial wacke, siltstone, conglomerate, fluvial argillite, rare limestone and felsic volcanic rocks: 1200m (Tournaisian spores)

(DCf) Tisdale Road Formation: grey to black laminated siltstone interlayered with grey-green thinly to thickly bedded quartz sandstone and polymictic pebble conglomerate, dolomitic lenses and beds, and siderite veins

(DCm) Ko Fall Brook Formation: interstratified red-grey to dark grey, locally organic-rich, fissile mudstone, siltstone, and sandstone

(DCm) Falls Formation: mafic to felsic polymictic conglomerates, wacke, siltstone

(DCm) Horton Bluff Formation: fluvial laminated sandstone, shale, siltstone, sandstone, conglomerate, breccia, minor dolostone and limestone: 900 - >1400m (Tournaisian-Tournaisian (Dinantian-Courceyan) (Tr-Tn/E spores and fauna)

(DCm) Deerville River and Rapid Brook Formations: alluvial conglomerate, wacke, sandstone, minor siltstone and argillite

(DCm) Glen Harbour River Member: Fluvial argillite; light grey to maroon quartz sandstone and siltstone; grey to black laminated siltstone; polymictic pebble to boulder conglomerate

(DCmc) McKeas Brook Formation: red pebble conglomerate, sandstone, fine vesicular basalt flows

LATE DEVONIAN

FOUNTAIN LAKE GROUP

Dfl — **Dfsa** — **Dfu** — **Dfu1**

(Dfl-) basalt, rhyolite, tuff, sandstone, siltstone, conglomerate

(Dfl-a) Basey Brook Formation: felsic volcanic rocks, minor siltstone, wacke (387 ± 2 and 341 ± 4 Ma Rb-Sr whole-rock isochron)

(Dfl-u) Diamond Brook Formation: basalt, wacke, siltstone, rhyolite (Famennian spores)

EARLY TO MIDDLE DEVONIAN

GUYSBOROUGH GROUP

dGsr — **dGpr** — **dGsl** — **dGb** — **dGa**

(dGsr-) Hagensborg Formation: basalt flows with minor felsic tuff; fine-banded to spherulitic rhyolite; felsic lithic crystal tuff; brown polymictic conglomerate; grey quartz arenite and quartz wacke interlayered with grey to green laminated siltstone; rare mafic dykes

(dGpr) Roman Valley Formation: grey quartz arenite to subarkose interlayered with quartz wacke feldspathic greywacke; minor black to grey laminated siltstone, shale, and tuff-bearing dolomitic limeare; polymictic conglomerate interlayered with basaltic flows; rare tuffaceous sandstone; mafic dykes common

(dGsl) Glenkeen Formation: maroon to grey polymictic conglomerate; minor maroon subarkose and grey siltstone; red and purple mildstonegreywacke, greywacke and associated tuffaceous sandstone; rare grey basaltic flows and associated lithic tuff

(dGb) Burnsville Formation: basaltic to andesitic flows and associated lithic tuff interlayered with maroon to grey polymictic conglomerate; minor subarkose and subfeldsarenite; minor green volcanogenic breccia-conglomerate; mafic dykes common

(dGa) Minister Brook Formation: grey feldspathic greywacke to quartz wacke with minor laminated siltstone, subarkose, and slate; rare grey quartz arenite, oligomictic conglomerate, and mafic flows; mafic dykes common

ORDOVICIAN - DEVONIAN

ARISAIG GROUP

Oe — **Sdc** — **Sda** — **Sdad** — **Sdr** — **Sdf** — **Sde** — **Sdq** — **Sdq** — **Sdq