



LEGEND

CARBONIFEROUS PENINSULARIAN

63, 64 BARACHOIS GROUP: sandstone, shale, conglomerate, coal
64 Sandstone, shale, conglomerate, coal

MISSISSIPPIAN

59-62 ANCHVILLE GROUP (includes CAPE ANCHVILLE SANDSTONE and SHANTY BIGHT SHALE): sandstone, arkose, shale, conglomerate (early Mississippian); 59A, 59B, 59C, 59D, 59E, 59F, 59G, 59H, 59I, 59J, 59K, 59L, 59M, 59N, 59O, 59P, 59Q, 59R, 59S, 59T, 59U, 59V, 59W, 59X, 59Y, 59Z: sandstone, shale (early ? Mississippian)
60 COODRY GROUP (includes COODRY, BLACK POINT, WOOLLY COVE and WOOLLY POINT FORMATIONS): shale, sandstone, limestone, gypsum (late Mississippian)
61 SEARSTON REDS: sandstone, shale (mainly latest Mississippian)
62 Conglomerate, sandstone, shale, includes ROCKY BROOK and HUNTER FALLS FORMATIONS

DEVONIAN

55-58 Metamorphosed rocks, including BAY DU NORD (Lower Devonian) and LA POULE (Lower Devonian); 55 GROUPS: volcanic rocks, sandstone, conglomerate, slate, schist, paragneiss
56 SPRINGDALE GROUP: sandstone, conglomerate, acidic and basic lavas, dyonitic rocks
57 CLAMANK "SERIES": shale, sandstone, limestone
58 Conglomerate, sandstone, shale (late Upper Devonian)

SILURIAN OR DEVONIAN

54 RENCONTRE FORMATION: sandstone, gneiss, breccia, shale; 54, similar to 54, but possibly older

SILURIAN

51 INDIAN ISLAND GROUP: slate, sandstone, limestone, conglomerate (Lower ? Silurian)
52 Sandstone, conglomerate, shale, includes GOLDSON FORMATION (Lower Silurian)
53 NATLANS COVE FORMATION (includes Hope Island volcanic member): sandstone, volcanic rocks (Middle Silurian)

ORDOVICIAN AND/OR SILURIAN

48 Sedimentary and volcanic rocks, includes (mainly shale, thin limestone (Ordovician), GOLDSON FORMATION (in part), conglomerate, sandstone, argillite (Colurian), FIRE ARM FORMATION (Ordovician), sandstone, minor conglomerate (Silurian)
49 FOGO GROUP: lavae, dyonitic rocks, quartzite, conglomerate, shale (Ordovician or Silurian)
50 FORTWELL GROUP: gneiss, quartzite, lavae, quartzite, conglomerate, shale, wholly or in part equivalent to 49

ORDOVICIAN

MIDDLE AND UPPER ORDOVICIAN (Mainly)

36-44 36 HUNTER ARM GROUP (late Middle and Upper ? Ordovician): shale, sandstone, volcanic rocks, conglomerate, limestone; 36A, NORTH-WEST ARM, GOOSE TUCKER, MAJEN POINT, and IRELAND POINT FORMATIONS: shale, sandstone, chert, volcanic rocks, limestone, probably equivalent to 36; 36B, ENGLE and CANADA HEAD FORMATIONS: sandstone, shale, volcanic rocks, limestone, probably equivalent to 36; 36C, amphibole, hornblende gneiss, schist, metamorphosed Hunter Arm or equivalent rocks
39 SNOOKS ARM, BAY VERTÉ, and NIPPERS HARBOUR GROUPS (in part latest Lower Ordovician): volcanic rocks, gneiss, quartzite, minor marbles, each group may be wholly or in part equivalent to the other two
40 EXPLOITS GROUP (LUKE ARM, HORNET, RANSOM, FOLIAKE COVE, and SILVER FORMATIONS; MORTONS VOLCANICS, BREAKNEAT BASALT, LAWRENCE HARBOUR and FORTUNE FORMATIONS) and BAGGIE BAY "SERIES" (WILD BIGHT, BEAVER BIGHT, SIGNAL ARM, and GULL ISLAND GROUPS); JULIES HARBOUR and BURTONS HEAD GROUPS; CRESSENT LAKE FORMATION and ROBERTS ARM VOLCANICS: volcanic rocks, conglomerate, gneiss, shale
41 PILLEY'S "SERIES" (CUTWELL and LISHS BIGHT GROUPS): volcanic rocks, limestone, sandstone, shale
42 BURNY "SERIES" and LITTLE LAWN and MOUNT MARGARET FORMATIONS: basalt, sandstone, conglomerate, chert, minor limestone
43 Lavae, gneiss, schist, quartzite, sandstone, gneiss, schist, 43a similar to 43, but possibly older
44 CAPE ST. JOHN GROUP (may be post-Ordovician): lavae, gneiss, schist, and sedimentary rocks

MIDDLE ORDOVICIAN

36, 37 36 TABLE HEAD "SERIES": limestone, dolomite, shale; 36A HARE ISLAND FORMATION: limestone, probably equivalent to 36; 36B DEE ARM FORMATION: limestone, dolomite, probably equivalent to 36
37 LONG POINT "SERIES": calcareous sandstone, shale (Imperial)

LOWER ORDOVICIAN

31-35 31 GREEN POINT "SERIES": limestone, shale, sandstone
32 ST. GEORGE "SERIES": limestone, dolomite; 32A may include some Middle Ordovician "Series"; 32B, IRELAND ISLAND and SOUTHERN ARM FORMATIONS: limestone, probably equivalent to 32; 32B, CHIMNEY ARM FORMATION: limestone, probably equivalent to 32
33 CARVILLE FORMATION: shale, sandstone
34 BELL ISLAND and WABANA GROUPS: shale, limestone, iron ore
35 Cape shale sandstone

CAMBRIAN

UPPER CAMBRIAN

24, 25 24, 25 SHALE SANDSTONE, minor limestone, includes ELLIOTT COVE GROUP (Elliott Cove Formation)

MIDDLE CAMBRIAN

21-23 21, 22 MARCH POINT FORMATION: sandstone, limestone, shale, limestone
22 CLOUD HILLS and TREY TOWN POINT FORMATIONS: blue limestone, with intercalated quartzite limestone and dolomite
23 ACADIAN (Newfoundland group): shale, schist, volcanic rocks, minor limestone, includes CHAMBERLAINS BROOK, LONG POND, and KELLERBROOK BROOK FORMATIONS and SOUND ISLAND FORMATION

LOWER CAMBRIAN

16-20 16 LABRADOR GROUP (BRADORE, FORTALE, and HAVANE BAY FORMATIONS): conglomerate, sandstone, shale, limestone, basalt, shale, limestone
17 HAPPESS FORMATION: basalt, shale, limestone
18 Sandstone, limestone, conglomerate, shale, includes CLOUD MOUNTAINS FORMATION (may be Proterozoic; in part) and DEVLIN COVE and FORTALE FORMATIONS
19 SHALE, slate, quartzite, sandstone, limestone
20 "HARDYAN" and "STICHENIAN" GROUPS: shale, sandstone, limestone, conglomerate, includes BRIGGS, SMITH POINT, and GOOSE COVE FORMATIONS; 20a, includes minor Middle Cambrian beds

PROTEROZOIC

12-15 12 MURGRAVETOWN GROUP (late Proterozoic): sandstone, conglomerate, lavae, includes BELL ARM FELTITE, RANDOM FORMATION, white quartzite
13 FRODEWATER GROUP (CARBONIFEROUS, HALLS TOWN, WHITEWATER, and SNOWS POND FORMATIONS): shale, albite, sandstone, RANSOM FORMATION: white quartzite
14 CABOT GROUP (GULL ISLAND, FALMOUTH, SIGNAL HILL, and BLACKHEAD FORMATIONS): conglomerate, sandstone, shale
15 Undivided late Proterozoic beds: conglomerate, sandstone, shale, quartzite, minor limestone, includes Random strata

10, 11 10 CONNECTING POINT GROUP: limestone, shale, gneiss, sandstone, conglomerate
11 CONCEPTION GROUP (CONCEPTION SLATE and FORBAY FELTITE): sandstone, gneiss, shale, possibly equivalent to 10, Gery (?) Proterozoic

9 HARBOUR MAIN GROUP (Archean/Proterozoic): volcanic flows, breccia, tuff, gneiss, conglomerate, shale, "SA" similar to 9, probably equivalent to Harbour Main, Many Archaean (?) or early Proterozoic

5-8 5 Charnock, schist, slate, marble, amphibolites, includes some undifferentiated intrusive rocks
6 WHITE BAY "GROUP": schist, limestone
7 FLEUR DE LYS (Beating Brook) GROUP (FLEALAND and STAMBOCK CONGRESSES, LODY FORMATION, SHALOCKS CONGRESSES, BROWN SCHIST, PINKS CONGRESSES, schist, marble, quartzite
8 AMUND BIGHT GROUP (partly or wholly equivalent to Fleur de Lys group): gneiss, schist

INTRUSIVE ROCKS

DEVONIAN (Mainly)

4 4 Granitic rocks: granite, quartz monzonite, granodiorite, syenite, rhyolite, gneiss, diorite, 4a, granodiorite, trachyte, porphyry (late-Cambrian ?); 4b, granite (late Devonian ?); 4c, granite (late Devonian or early Mississippian ?); 4d, granitic and dioritic rocks

3 3 Dioritic rocks (mainly): diorite, quartz diorite, trachyte; 3A, dioritic and gabbroic rocks

2 2 Gabbroic rocks: gabbro, dolerite, trachyte, anorthosite, norite, 2a, anorthosite

1 1 Ultrabasic rocks: peridotite, dunite, hornblende, pyroxenite, serpentinite, peridotite and gneissite; serpentinite, peridotite and gneissite; 1A, dunite, peridotite, amphibolite, gabbro, anorthosite, mantle, quartz-diorite

PALEOZOIC (Mainly)

A, B A Early Paleozoic and/or Precambrian rocks, mainly of sedimentary origin
B Mainly metamorphic rocks, whose age relationships are not known, schist, gneiss, marble, mica-schist, amphibolite, places include undifferentiated intrusive rocks (Devonian or earlier)

CANADA
DEPARTMENT
OF
MINES AND TECHNICAL SURVEYS
GEOLOGICAL SURVEY OF CANADA

MAP 1043A
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GEOLOGICAL MAP
OF THE
ISLAND OF
NEWFOUNDLAND

LEGEND

Producing and formerly producing mines and quarries (metallic, non-metallic). R, S Prospect (metallic, non-metallic). Location of drilling well (petroleum). Metallic mineral. Non-metallic mineral.

Silver	As	Copper	Cu	Petroleum	FET
Arsenic	As	Iron	Fe	Lead	FELE
Antimony	Sb	Fluorapatite	FL	Pyrite	FEPI
Gold	Au	Graphite	GRAP	Pyrophyllite	PRPY
Bauxite	Ba	Quartz	QTZ	Pyroxene	PRPX
Blaschm	Bl	Limestone	LS	Salt	SALT
Building stone	BS	Mica	MS	Acetone	AC
Brick clay	CLM	Marble	MB	Slate	SL
Moulding clay	CLM	Nickel	Ni	Staurolite	ST
Common rock	CR	Manganese	Mn	Tungsten	TG
Chromite	CR	Oil shale	OS	Zinc	ZN

MINERAL SYMBOLS

Fe, FeLE, FEPI, PRPY, PRPX, SALT, AC, SL, ST, TG, ZN

NOTES

Formation names inserted in parentheses and in lower case letters, as for example "(Mable", "Gull Bay", etc. are alternative names that have appeared in published maps and reports but that have in most instances been superseded by the names preceding them printed in capital letters. Such names are to be distinguished on this one hand from age terms also in parentheses and in lower case letters, such as "(Lower Cambrian)", etc. and on the other from names in parentheses and in capital letters that represent the constituent formations of a group, such as "CABOT GROUP", which is composed of the ST. JOHN'S, SIGNAL HILL, and BLACKHEAD FORMATIONS.

The term "Series" is employed by the Geological Survey of Canada to denote a succession of strata laid down in a general order, and the usage differs from that of the Geological Survey of Newfoundland, by whom the term was commonly used instead of group. The term "SERIES" in single quotes, is retained only in those cases where doubt exists as to the correct term to be employed in all other cases "GROUP" without quotation marks, is substituted.

Geology compiled by L. J. Weeks, mainly from published and unpublished maps and reports of the Geological Survey of Canada and the Geological Survey of Newfoundland, and in part from unpublished information kindly supplied by Buchanan Mining Company Limited.

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