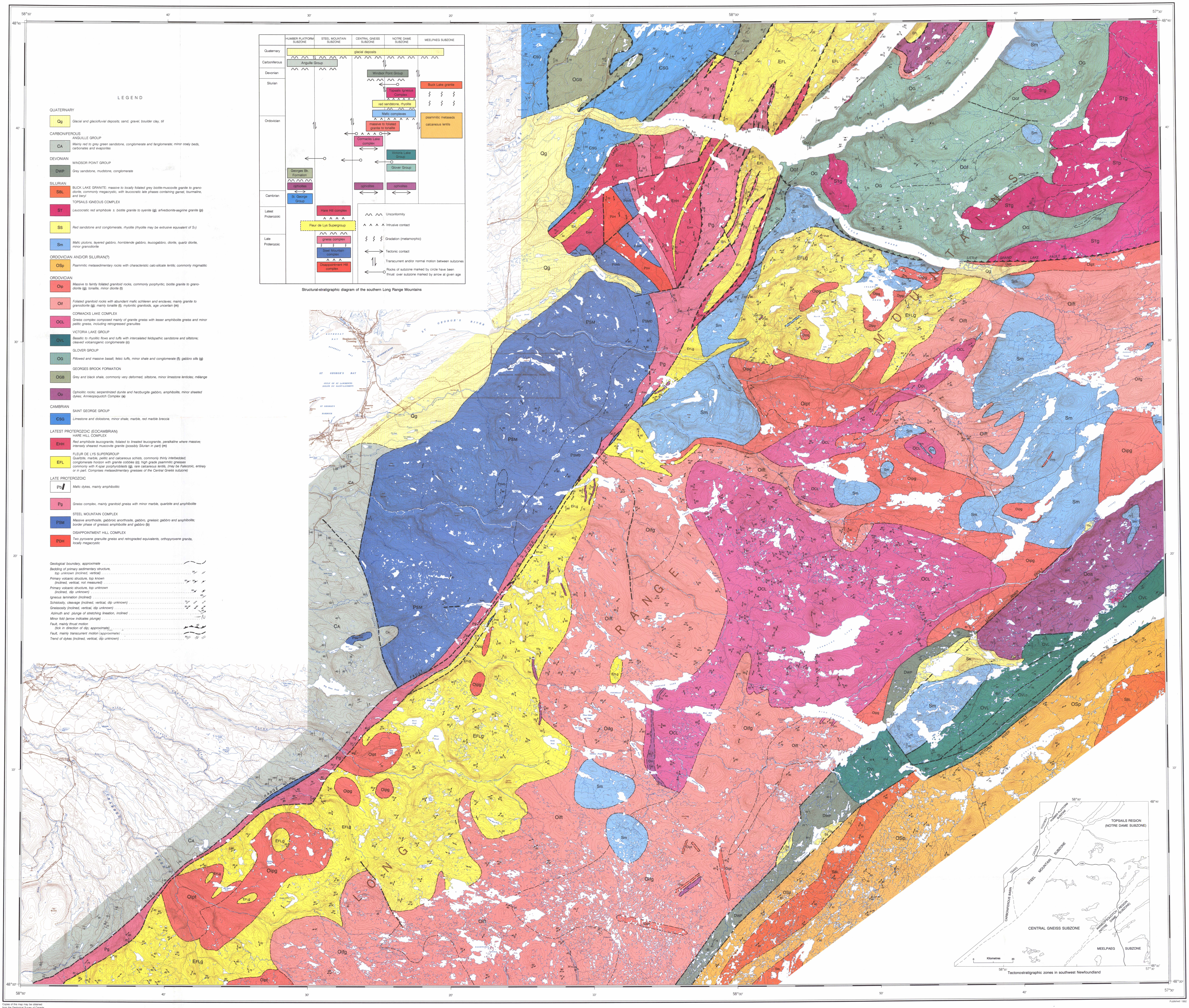
COMMISSION GÉOLOGIQUE DU CANADA — GEOLOGICAL SURVEY OF CANADA



LEGEND

QUATERNARY

Qg — *Glacial and glaciofluvial deposits; sand, gravel, boulder clay, till*

CARBONIFEROUS

ANGUILLE GROUP

CA — *Mainly red to grey green sandstone, conglomerate and fanglomerate; minor coaly beds, carbonates and evaporites*

DEVONIAN

WINDSOR POINT GROUP

DWP — *Grey sandstone, mudstone, conglomerate*

SILURIAN

SBL — *BUCK LAKE GRANITE: massive to locally foliated grey biotite-muscovite granite to granodiorite, commonly megacrystic, with leucocratic late phases containing garnet, tourmaline, and beryl*

TOPSAILS IGNEOUS COMPLEX

ST — *Leucocratic red amphibole ± biotite granite to syenite* **(g)**; *arfvedsonite-aegirine granite* **(p)**

SS — *Red sandstone and conglomerate, rhyolite (rhyolite may be extrusive equivalent of S_1)*

Sm — *Mafic plutons, layered gabbro, hornblende gabbro, leucogabbro, diorite, quartz diorite, minor granodiorite*

ORDOVICIAN AND/OR SILURIAN(?)

OSp — *Psammitic metasedimentary rocks with characteristic calc-silicate lentils; commonly migmatitic*

ORDOVICIAN

Oip — *Massive to faintly foliated granitoid rocks, commonly porphyritic; biotite granite to granodiorite* **(g)**; *tonalite, minor diorite* **(t)**

Oif — *Foliated granitoid rocks with abundant mafic schlieren and enclaves; mainly granite to granodiorite* **(g)**; *mainly tonalite* **(t)**; *mylonitic granitoids, age uncertain* **(m)**

CORMACKS LAKE COMPLEX

OCL — *Gneiss complex composed mainly of granite gneiss with lesser amphibolite gneiss and minor pelitic gneiss, including retrogressed granulites*

VICTORIA LAKE GROUP

OVL — *Basaltic to rhyolitic flows and tuffs with intercalated feldspathic sandstone and siltstone; cleaved volcanogenic conglomerate* **(c)**

GLOVER GROUP

OG — *Pillowed and massive basalt; felsic tuffs, minor shale and conglomerate* **(f)**; *gabbro sills* **(g)**

GEORGES BROOK FORMATION

OGB — *Grey and black shale, commonly very deformed, siltstone, minor limestone lenticles; mélange*

Oo — *Ophiolitic rocks; serpentinized dunite and harzburgite gabbro, amphibolite, minor sheeted dykes; Annieopsquotch Complex* **(a)**

CAMBRIAN

SAINT GEORGE GROUP

ЄSG — *Limestone and dolostone, minor shale; marble, red marble breccia*

LATEST PROTEROZOIC (EOCAMBRIAN)

HARE HILL COMPLEX

EHH — *Red amphibole leucogranite, foliated to lineated leucogranite, peralkaline where massive; intensely sheared muscovite granite (possibly Silurian in part)* **(m)**

FLEUR DE LYS SUPERGROUP

EFL — *Quartzite, marble, pelitic and calcareous schists, commonly thinly interbedded; conglomerate horizon with granite cobbles* **(c)**; *high grade psammitic gneisses commonly with K-spar porphyroblasts* **(g)**, *rare calcareous lentils, (may be Paleozoic, entirely or in part. Comprises metasedimentary gneisses of the Central Gneiss subzone)*

LATE PROTEROZOIC

Pb — *Mafic dykes, mainly amphibolitic*

Pg — *Gneiss complex, mainly granitoid gneiss with minor marble, quartzite and amphibolite*

STEEL MOUNTAIN COMPLEX

PSM — *Massive anorthosite, gabbroic anorthosite, gabbro, gneissic gabbro and amphibolite; border phase of gneissic amphibolite and gabbro* **(b)**

DISAPPOINTMENT HILL COMPLEX

PDH — *Two pyroxene granulite gneiss and retrograded equivalents, orthopyroxene granite, locally megacrystic*

Geological boundary, approximate

Bedding of primary sedimentary structure, top unknown (inclined, vertical)

Primary volcanic structure, top known (inclined, vertical, not measured)

Primary volcanic structure, top unknown (inclined, dip unknown)

Igneous lamination (inclined)

Schistosity, cleavage (inclined, vertical, dip unknown)

Gneissosity (inclined, vertical, dip unknown)

Azimuth and plunge of stretching lineation, inclined

Minor fold (arrow indicates plunge)

Fault, mainly thrust motion (tick in direction of dip; approximate)

Fault, mainly transcurrent motion (approximate)

Trend of dykes (inclined, vertical, dip unknown)

Published 1992

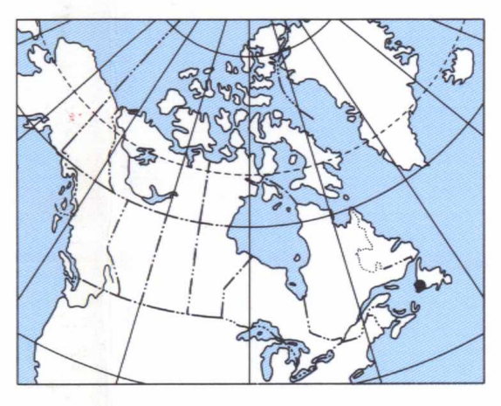
Copies of this map may be obtained from the Geological Survey of Canada:
601 Booth Street, Ottawa, Ontario K1A 0E8
3303-33rd Street, N.W., Calgary, Alberta T2L 2A7

Contribution to Canada-Newfoundland Mineral Development Agreement 1984-1989, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada

DEPARTMENT OF MINES AND ENERGY
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

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

Canada



INDEX MAP

Geology by J.T. van Berkel 1985-1987; K.L. Currie, 1985-1987; M.A.J. Piasecki, 1985-1987; H. Johnson, 1985; D. Machin, 1986-1987; and D. Fox, 1986-1987. Other information from Williams and Cawood (1986), Kean (1983), Whalen and Currie (1983) and Knapp et al., (1979)

Geological compilation and interpretation by K.L. Currie, 1989

Geological cartography by the Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

MAP 1815A

GEOLOGY

SOUTHERN LONG RANGE MOUNTAINS

NEWFOUNDLAND

Scale 1:100 000 - Échelle 1/100 000

Kilometres 2 0 2 4 6 8 Kilomètres

Universal Transverse Mercator Projection — Projection transverse universelle de Mercator

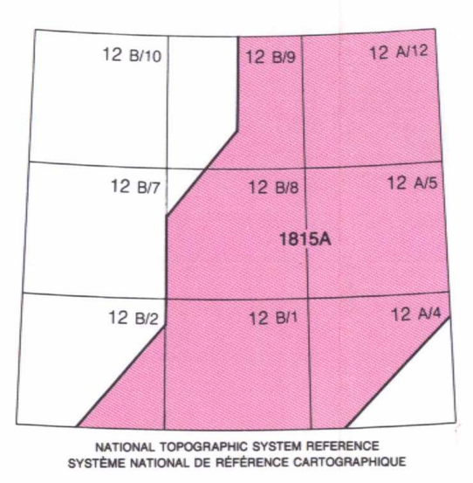
© Crown copyrights reserved — © Droits de la Couronne réservés

Base map assembled by the Geological Survey of Canada from maps 12 A/4, 12 A/5, 12 A/12 (1989), 12 B/1, 12 B/2, 12 B/8 and 12 B/9 (1986) published at 1:50 000 scale by the Surveys and Mapping Branch

Copies of the topographical editions covering this map area may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, Ontario, K1A 0E9

Mean magnetic declination 1991, 24°00′ W, decreasing 7.6′ annually. Readings vary from 24°17′ W in the NE corner to 23°42′ W in the SW corner of the map

Elevations in feet, west of longitude 58°00′ and in metres, east of longitude 58°00′, above mean sea level



Recommended citation.
Currie, K.L. and van Berkel, J.T.
1992: Geology, southern Long Range Mountains, Newfoundland, Geological Survey of Canada, Map 1815A, scale 1: 100 000