



LEGEND

LATE PROTEROZOIC OR PALEOZOIC

12 Gabbro, olivine gabbro, dioritic dikes, characterized by ophitic texture; coarse grained and generally north-northeast trending

LATE PROTEROZOIC AND EARLIER

10c Fault and shear zone breccia; extensively hematized, epidotized, chloritized and silicified
 10m Mylonitic rocks; fine grained, intensely foliated and lineated
 9e Minor mafic dikes; medium grained and equigranular, deformed and metamorphosed
 9p Minor mafic dikes; medium grained and plagioclase porphyritic, deformed and metamorphosed
 8 Microgranite, aplite and pegmatite dikes, and irregular intrusions; various ages

MIDDLE PROTEROZOIC

7a Amphibolite and retrograded metagabbro; commonly garnetiferous, medium grained and foliated to gneissic
 7f Two-pyroxene granulite, leuconorite; fine grained (rectiplanar shape of outcrops suggests these rocks are dikes in part)
 7g Granite to alkali-feldspar granite; medium to coarse grained
 7i Leucogabbro and leuconorite; medium to coarse grained (similar to 7r but lower color index)
 7m Monzonite, monzodiorite, syenite and quartz-bearing varieties; medium to coarse grained
 7n Anorthosite, leucogabbro; medium grained
 7p Quartz monzonite to alkali-feldspar granite containing K-feldspar megacrysts; medium to coarse grained.
 7r Gabbro, norite, troctolite characteristically olivine bearing; medium to coarse grained, commonly coronitic and locally layered
 6a Metagabbroid rocks; amphibolite to granulite facies
 6l Leucogabbroid rocks; fine to very coarse grained
 6n Anorthosite and leucogabbroid rocks; fine to very coarse grained

MIDDLE OR EARLY PROTEROZOIC

4a Amphibolite skiloliths, lenses and layers (possibly remnants of former mafic dikes)
 4b Granodiorite; medium to coarse grained
 4d Diorite to quartz diorite; medium to coarse grained
 4f Granodiorite to granite; fine grained
 4g Biotite granite; medium to coarse grained
 4h Hornblende quartz monzonite; coarse grained
 4m Biotite monzonite characterized by seriate to megacrystic texture; coarse grained
 4p Granodiorite to granite containing K-feldspar megacrysts; medium to coarse grained
 3a Amphibolite, meladiorite, minor quartzofeldspathic leucosome; fine to coarse grained and foliated
 3b Quartz diorite to granodiorite containing hornblende ± biotite; medium to coarse grained; irregular quartzofeldspathic leucosome layers
 3d Diorite to quartz diorite containing hornblende ± biotite; medium to coarse grained; irregular quartzofeldspathic leucosome layers
 3g Granite to granodiorite containing biotite ± muscovite; medium to coarse grained; quartzofeldspathic leucosome in places
 3m Monzonite, monzodiorite, quartz-bearing with hornblende ± biotite; medium to coarse grained; irregular quartzofeldspathic leucosome patches
 3p K-feldspar megacrystic quartz diorite to granodiorite containing hornblende ± biotite; medium to coarse grained; irregular quartzofeldspathic leucosome patches
 2a Amphibolite containing quartz-feldspar layers and calc-silicate pods; schistose or gneissic (probably supracrustal in part)
 2c Calc-silicate rocks, compositionally layered; medium grained
 2k Kyanite-bearing quartz-feldspar schist and gneiss; medium grained
 2q Quartzite, meta-arkose(?), thin to thick bedded; pelitic gneiss layers
 2s Sillimanite-bearing quartz-feldspar schist and gneiss; medium grained and rusty weathering
 2u Muscovite-rich quartz-feldspar schist; pelitic and semipelitic; medium grained and rusty weathering
 2w Quartz-feldspar ± hornblende psammitic schist and gneiss, meta-graywacke(?); medium grained and rusty weathering in places
 2x Metasedimentary diatexite; coarse grained to pegmatitic and white weathering
 2z Cordierite-bearing schist and gneiss; fine to medium grained

MIDDLE OR EARLY PROTEROZOIC (includes many of above units mobilized during Grenvillian (or earlier) Orogeny)

1a Mafic to ultramafic gneissose rocks, commonly containing quartz-feldspar veins and segregations; fine to coarse grained
 1b Biotite granodiorite gneiss containing minor hornblende; fine to coarse grained
 1d Biotite-hornblende diorite to quartz diorite gneiss; fine to coarse grained
 1g Biotite granite gneiss containing minor muscovite; medium to coarse grained
 1h Hornblende-biotite quartz diorite to granodiorite gneiss; medium to coarse grained
 1p Biotite granodiorite gneiss containing K-feldspar megacrysts, seriate texture in part; medium to coarse grained

GEOCHRONOLOGY ABBREVIATIONS

Ar-Ar Argon-argon date
 Plateau age - with parentheses
 Total gas age - without parentheses
 K-Ar Potassium-argon date
 U-Pb Uranium-lead date
 W.R. whole rock
 bi biotite
 hbl hornblende
 miz monzite
 spn sphene
 zr zircon upper intercept
 lower intercept

MINERAL ABBREVIATIONS

Cu chalcopyrite, malachite
 py pyrite
 U anomalous radioactivity
 mu muscovite
 spr sapphire
 osm osumilite

SYMBOLS

Geological boundary (approximate, assumed, inferred from aeromagnetic data in areas of thick overburden).....
 Inferred primary igneous layering (inclined).....
 Foliation (horizontal, inclined, vertical, dip unknown).....
 Gneissosity (horizontal, inclined, vertical, dip unknown).....
 Lineation (horizontal, inclined, combined with foliation).....
 Minor folds, plan view and fold axis (the folds illustrated here are only examples of a wide range of fold styles depicted on the map).....
 Fault (normal, type unspecified).....
 Thrust (defined, assumed).....
 Shearing and dip.....
 Antiform, synform; arrow indicates plunge.....
 Lineament, interpreted from aerial photographs.....
 Mineral occurrence.....
 Data station.....
 Area of thick overburden.....
 Glacial striae.....

NOTES

1. Granitoid terminology follows IUGS recommendations (Streckeisen, 1976; Earth Science Reviews, Volume 12, pages 1-33).
 2. Age relationships are not implied by the order in which units are presented within each group, and are not completely known between groups.
 3. This is a combined legend for 13HSW, 13HSE and 3ESW; not all units are present on each map.
 4. Units are indicated in order of decreasing abundance at each data station.
 5. Unit symbols separated by slash, e.g. 1N/4h, indicate alternative designations, preferred unit given first.
 6. Map users are encouraged to reinterpret map units with the same letter as possible equivalents, e.g. 1g = 4g.
 7. Units 5 and 11 do not occur on this map. Unit 5 consists of syenitic, monzonitic and granitic plutons with lesser diorite and granodiorite. Unit 11 is Double Mer Formation. Both units occur farther north and west in eastern Labrador (see Newfoundland Department of Mines and Energy Maps 83-43, 44, 45, 46).

Geology by C.F. Gower, T. Van Nostrand, G. McRoberts, L. Crisby and S. Prevec, 1985.
 This preliminary map may be subject to revision and correction.
 Geological cartography by Drafting Section, Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.
 Copies of this map may be obtained from the Publication and Information Section, Mineral Development Division, Department of Mines and Energy, P.O. Box 4750, St. John's, Newfoundland, A1C 5T7.
 Base map enlarged from 1:250,000 scale map published by Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa.
 Magnetic declination at centre of map was 31°25' westerly in 1986, annual decrease 3.9' easterly.
 Elevations in feet above mean sea level.
 This project was financed under the Canada/Newfoundland subsidiary agreement on Mineral Development (1984-1989) by contributions from the Government of Newfoundland and Labrador (50 per cent) and from the Department of Energy, Mines and Resources (50 percent) of the Government of Canada.

MAP 86-75

BATTEAU

