

12H(714)

MINERAL DEVELOPMENT DIVISION
DEPARTMENT OF MINES AND ENERGY
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

12H/15 E. 12H/16

SYMBOLS

Geological boundary (defined, approximate, assumed)

Geological boundary (gradational)

Unconformity

Bedding, tops known (inclined, vertical, overturned)

Bedding, tops unknown (inclined, vertical)

Primary igneous layering, tops known (inclined, vertical)

Primary igneous layering, tops unknown (inclined, vertical)

Strike and dip of pillows, tops known (inclined, overturned)

Primary observed schistosity (inclined, vertical)

Secondary observed schistosity (horizontal, inclined, vertical)

Composite schistosity involving S₁ and an earlier fabric (inclined)

Composite schistosity involving S₁ and S₂ (inclined, vertical)

Note: Relative age of composite schistosity interpreted from observed regional fabric relationships.

Geosic foliation (inclined, vertical)

Lineation (horizontal, inclined)

Type of lineation: Mineral lineations

Deformed clasts

Deformed pillows

Age of lineation: L₁

Axes of minor folds (inclined)

Age of minor folds: F₁

Sense of vergence (as observed along arrow)

Syncline (approximate)

Antiform, synform (approximate)

Lineament (from air photographs)

Fault (defined, approximate, assumed)

Thrust fault (defined, approximate, assumed)

Shear zone (width indicated)

Sheared dikes (inclined, vertical)

Glacial striae

Age determinations

Method

U/Pb

Rb/Sr

K/Ar

Ar/Ar

whole rock

biotite

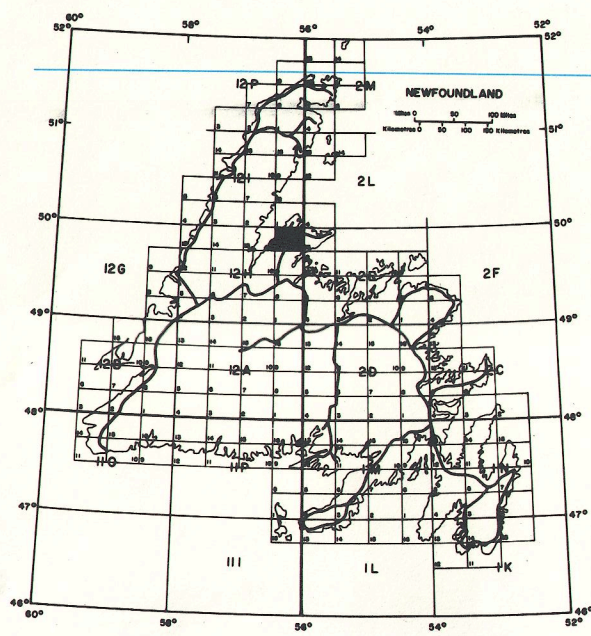
hornblende

zircon

zircon

apatite

Denotes ages from combined samples.



ABBREVIATIONS

Ag silver

As arsenic

Au gold

Co cobalt

Cu copper

Cr chromium

Fe iron

Mn manganese

Ni nickel

Pb lead

Pt platinum

Se selenium

Sr strontium

Tl thallium

Zn zinc

Mo molybdenite

Pb pyrrhotite

Py pyrite

Sp sphalerite

St stibnite

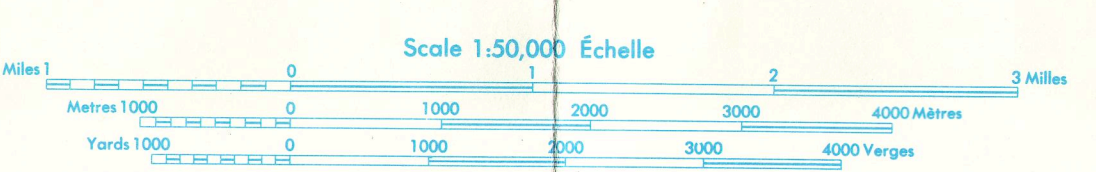
U uraninite

V vanadinite

W wolframite



MAP 80-3
JACKSON'S ARM (East)—BAIE VERTE



LEGEND

SILURIAN-DEVONIAN	HUMBER ZONE	DUNNAGE ZONE
SILURIAN AND OLDER	LEGEND	DUNNAGE ZONE
EOCAMBRIAN/MIDDLE ORDOVICIAN	LEGEND	DUNNAGE ZONE
PALEOZOIC	LEGEND	DUNNAGE ZONE
PRECAMBRIAN-EOCAMBRIAN	LEGEND	DUNNAGE ZONE
PRECAMBRIAN	LEGEND	DUNNAGE ZONE

Mic Mac Lake Group
16 Sandstone, conglomerate and mafic volcanic rock.

Flatwater Pond Group
15 15a. Polydeformed conglomerate with black slate matrix and black slate; 15b. mafic volcanic rocks and diabase dikes; 15c. mafic and felsic volcanoclastic rocks locally conglomeratic with boulder sized gneissic clasts; 15d. serpentinite clast.

White Bay Group
4 Unseparated semipelite, pelitic and graphitic schist with psammite, garnetiferous, and mafic schist; minor marble; 4a. dominantly marble and carbonate schist; 4b. amphibolite and mafic schist; 4c. graphitic schist; 4d. dominantly garnetiferous quartz-muscovite schist; locally magnetite, locally psammite, minor granitic schist.

Birchy Complex
6 Greenish and amphibolite; minor psammite and amphibolite schist.

Rattling Brook Group
5 Unseparated psammite and semipelite schist; minor greenish and graphitic schist; 5a. marble and carbonate schist; 5b. amphibolite and greenish; 5c. graphitic schist; 5d. garnetiferous quartz muscovite semipelite.

Old House Cove Group
2 Interlayered psammite and amphibolite schist; minor graphitic schist.

East Pond Metamorphic Suite
1 1a. Magnetite gneiss, banded gneiss; minor pink biotite granite; 1b. dominantly polymictic metaconglomerate; locally paragneiss; 1c. dominantly fine to medium grained psammite and semipelite schist.

7 Serpentinized ultramafic rock tectonically included in units 5 and 6; probably equivalent to unit 9a.

8 Plagioclase and amphibolite schist; mafic schist; locally containing pods of actinolite-fuchsite schist.

9 Amphibole; 9a. serpillized ultramafic rock; 9b. calc carbonate and quartz carbonate alterations of 9c; 9c. mixed gabbro, metagabbro, and serpillized ultramafic rock; 9d. gabbro and metagabbro; 9e. coarse grained orthopyroxene; 9f. sheared diabase dikes.

10 Unseparated mafic volcanic and volcanoclastic rocks, mafic dikes, and conglomeratic black schist. Includes tectonic slices of unit 9; may in part be equivalent to unit 15.

11 Ophiolite. 11a. serpillized ultramafic rock; 11b. calc carbonate and quartz carbonate alterations of 11c; 11c. mixed gabbro, metagabbro and ultramafic rock; 11d. gabbro and metagabbro; 11e. sheared diabase dikes.

12 Unseparated pillow lava, mafic pyroclastic and volcanogenic sedimentary rocks, diabase dikes, minor chert and marble; includes volcanic rocks genetically related to unit 11.

13 Gray-green porphyritic (felspar) diabase dikes.

14 Unseparated mafic volcanic, pyroclastic and volcanoclastic rocks, diabase dikes; minor felsic rocks; 14a. mainly pillow lava; 14b. mainly felsic volcanic and pyroclastic rocks; 14c. gabbro, metagabbro, diabase and metallic base; 14d. mainly amphibolite.

17 Gray biotite-hornblende granodiorite.

18 Pink biotite granite.

19 Quartz felspar porphyry; 19a. fine grained, possibly retrograde phase.

20 Dunamange Granite.

21 Burlington Granodiorite.

22 Paquet Harbour Group.

Elevation in feet above mean sea level.

Approximate magnetic declination, 1969 for center of map, 29°33' west, decreasing 3.3' annually.

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Geology by James Hibbard, 1977, 1978, 1979; and J. Gagnon, 1979; the following areas have been completed, either in part or totally, from sources indicated: the area immediately surrounding Consolidated Refractor Mines from Tush, 1976; the area immediately northwest of King's Blight in part from Norman, 1973; the area northeast of Butler's Pond and the Four de Lys highway from Bureau, 1975; the area between Rattling Brook north to Butler's Pond and east of the Stryker Complex, in part from Riccio, 1973; the area bounded by the Burlington Road, the western edge of the Burlington Grandiorite, and the Red Cliff froids from Koff, 1976; the area between the Seal Cove and Wharfedale Roads and east to the Baie Verte highway in part from deWit, 1972; other portions of the map have been influenced by the work of G. W. Neale, 1959.

This map may be subject to revision and correction.

Geological cartography by Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.

Copies of this map may be obtained from the Publications and Information Section, Mineral Development Division, Department of Mines and Energy, P.O. Box 4750, St. John's, Newfoundland A1C 2T7.

Base map at same scale published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1973. Roads spotted from Department of Forestry and Agriculture, Government of Newfoundland and Labrador, photography 1966.

* NOTE
SEE REVERSE SIDE FOR CROSS SECTIONS

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