

LEGEND

HADRYNIAN (?) TO PALEOHELIKIAN

MICHAEL GABBRO AND OTHER MAFIC INTRUSIONS

- 33 Rectilinear mafic dikes
- 32 Net-veined mafic dikes
- 31 Undifferentiated mafic rocks. Mostly olivine gabbro but ranging from leucogabbro to peridotite. Includes Michael Gabbro

HELIKIAN AND OLDER

PALAEHELIKIAN AND OLDER ROCKS REWORKED DURING GRENVIILLIAN OROGENY

- 30 Supracrustal remnants (metasediments and felsic volcanic rocks). Possibly equivalent to Aillik Group
- 29 Well banded quartzofeldspathic gneiss. Possibly more deformed and metamorphosed equivalent of Units 27 and 28
- 28 Foliated to gneissic megacrystic (K-feldspar) granodiorite. Possibly equivalent in part to Unit 19.
- 27 Foliated to gneissic granodiorite. Possibly equivalent in part to Unit 18.

PALEOHELIKIAN

BENEDICT MOUNTAINS INTRUSIVE SUITE

- 26 Fine to medium grained saccharoidal leucogranite
- 25 Mafic-rich syenite to monzonite with a strongly foliated to mylonitic fabric
- 24 Coarse grained amphibole alkali feldspar syenite, clinopyroxene-bearing in places
- 23 Coarse grained biotite alkali feldspar granite, locally aserine or riebeckite-bearing
- 22 Coarse grained hornblende-biotite quartz syenite to quartz monzonite, pseudopagvik textures
- 21 Medium to coarse grained syenite, grades into alkali feldspar syenite or monzonite; quartz prefix applies locally
- 20 Coarse grained biotite-hornblende granodiorite to quartz monzonite with very large (4-7 cm) K-feldspar megacrysts
- 19 Coarse grained hornblende-biotite granodiorite to quartz monzonite with seriate to megacrystic (K-feldspar) texture
- 18 Coarse grained hornblende-biotite granodiorite to granite
- 17 Coarse grained biotite-chlorite granites; fluorite-bearing
- 16 Agmatite comprising Adlavik Intrusive Suite and Benedict Mountains Intrusive Suite, especially Unit 15
- 15 Coarse grained biotite-hornblende monzonite to quartz monzonite

ADLAVIK INTRUSIVE SUITE AND PROBABLE CORRELATIVES

- 14 Diorite, leucodiorite; grades into monzodiorite and rare quartz monzonite
- 13 Granophytic leucogabbro; minor olivine gabbro and pyroxenite

APHEBIAN TO EARLY PALEOHELIKIAN

AILLIK GROUP AND PROBABLE CORRELATIVES

- 12 Fine grained, dark weathering, schistose amphibolite with abundant epidote lenses
- 11 Well bedded quartz-rich metasediments with some calcareous layers
- 10 Rhyolitic and dacitic rocks with a streaky or gneissic fabric. Possibly equivalent to Unit 5
- 9 Arkose/quartzite, cross bedded in places; siltstones/fine grained volcanoclastites locally present
- 8 Massive, structureless quartz and/or feldspar porphyry
- 7 Fine grained rhyolitic crystal-tuff with subsidiary rhyolitic lavas
- 6 Felsic agglomerates. Fragments mainly subrounded rhyolite to rhyodacite

ARCHEAN OR APHEBIAN

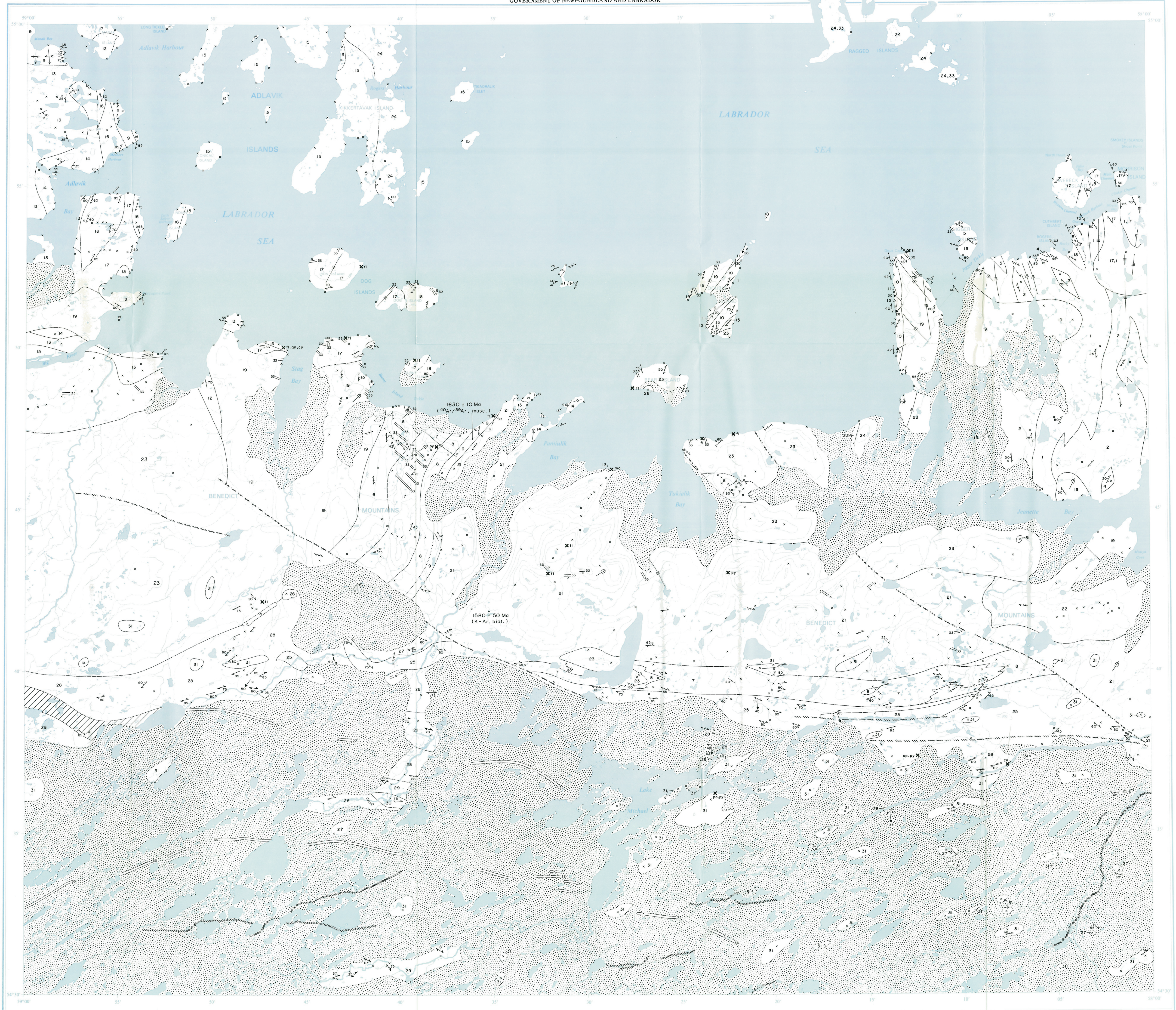
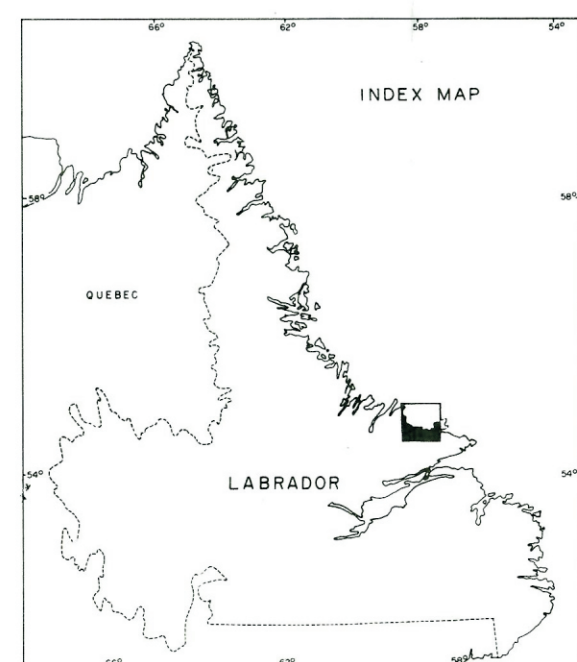
CAPE HARRISON METAMORPHIC SUITE

- 5 Fine grained felsic and siliceous (?) metavolcanic) rocks with a lensy, streaky or gneissic fabric
- 4 Fine to medium grained amphibolite
- 3 Medium to coarse grained quartz metadiorite to quartz monzonodiorite; strongly foliated
- 2 Medium to coarse grained metagranodiorite, locally with K-feldspar megacrysts; foliated to gneissic
- 1 Medium grained metatonalite; foliated to gneissic. Incipient porphyroblastic texture in places

NOTE: 1. Granitoid terminology follows IUGS recommendations (Streckeisen, 1976).
2. Age relationships are not necessarily implied by the order units are presented within each group.
3. This is a combined legend for map areas 13J NE and 13I NW.

SYMBOLS

- Geological contact (approximate, assumed)
- Fault (approximate, assumed)
- Bedding, tops unknown (vertical, inclined)
- Syncline, anticline (plunging)
- Gneissosity (vertical, inclined)
- Foliation (vertical, inclined, dip unknown)
- Lineation
- Primary igneous layering (vertical, inclined)
- Shear zone (approximate)
- Thrust (defined)
- Glacial striae
- Area of thick overburden
- Esker
- Topographic lineament from aerial photographs
- Mineral occurrence
- Data station
- Orientation of enclaves
- Dikes
- Geochronology data point



ABBREVIATIONS

- Chalcopyrite cp
- Fluorite fl
- Galena gp
- Molybdenite mo
- Pyrite py
- Pyrrhotite po

Geology west of latitude 50° 45' to C.F. Gower, 1977 with contributions from D.G. Butler and R.A. Doherty, especially in area of felsic volcanic rocks, geology of Adlavik Islands by R.A. Doherty, geology of mainland west of latitude 50° 45' by A. Labrecque, compiled by C.F. Gower, 1979.

To accompany report 87-3.

This preliminary map may be subject to revision and correction.

Geological cartography by Mineral Development Division, Department of Mines and Energy, 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 4790, St. John's, Newfoundland, A1C 3T7.

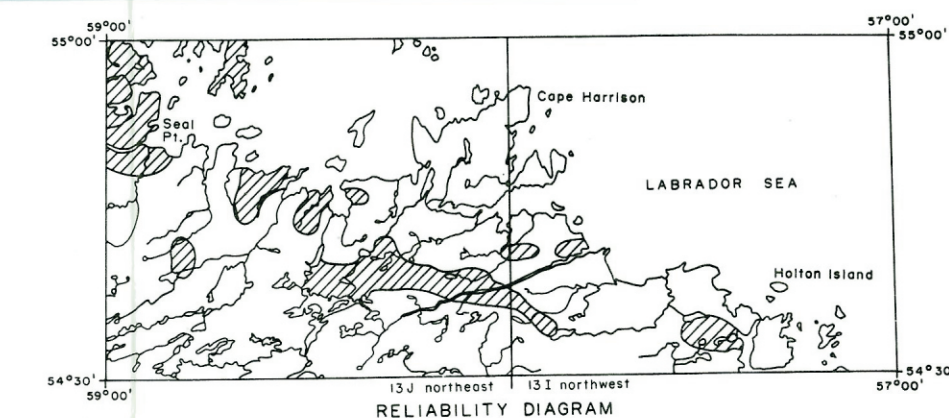
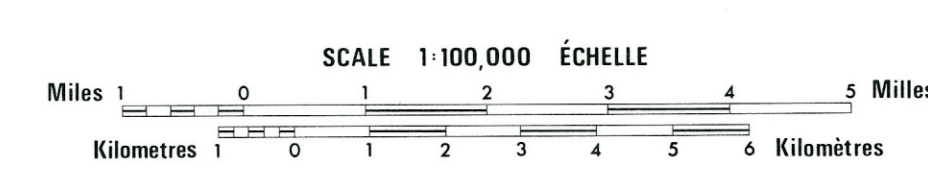
Base maps at scale 1:50,000 published by Survey and Mapping Branch, Department of Energy, Mines and Resources, Ottawa.

Approximate magnetic declination, 1980, at centre of map, 32° 40' west; annual magnetic change 4' easterly.

Elevation in metres above mean sea level.

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MOUNT BENEDICT
MAP 80298



Ground traverses.
Helicopter supported reconnaissance, also coastline boat traverses; dots sections at approximately 1 km intervals.