

LEGEND

PLEISTOCENE

Glacial, fluvioglacial and estuarine deposits

LATE PROTEROZOIC - EARLY PALEOZOIC

- 21 Diabase-gabbro dikes; 211, minor lamprophyre
- 20 Area suspected to be underlain by Double Mer Formation sandstone and conglomerate

EARLY - LATE PROTEROZOIC

(Units not necessarily in stratigraphic order)

- 19 Metadiabase - gabbro dikes

LOWER BROOK METAMORPHIC SUITE

- 18 Composed predominantly of pink, migmatitic, biotite + hornblende + garnet granitic gneiss, locally also pyroxene bearing; and pink, foliated biotite granite. Both are intercalated with 18a, agn, garnetiferous amphibolite - amphibolite gneiss, and 18yga, grey granitoid gneiss, locally orthopyroxene bearing. Also contains 18ac, minor amounts of foliated megacrystic granitoid. 18ay, subunit of pink, foliated, hornblende + clinopyroxene syenite to syenite gneiss
- 17 Miscellaneous small granitic intrusion in northwestern part of area

MEALY MOUNTAINS INTRUSIVE SUITE

- 16 Buff, medium to coarse grained, weakly to moderately foliated alkali feldspar granite
- 15 Pink, texturally heterogeneous, fine to medium grained, foliated granites; 15gyg, grey (pyroxene bearing?) granite. Unit locally contains abundant amphibolite-metagabbro inclusions
- 14 Mixed unit of monzonite and granite with abundant amphibolite metagabbro inclusions. 14m, pink to gray, medium grained, typically K-feldspar porphyritic monzonite; 14g, pink, fine to medium grained granite. Structural state of unit varies from weakly foliated in south to strongly foliated, gneissic and locally migmatitic in north
- 13 Buff to cream, medium grained, recrystallized clinopyroxene monzonite with abundant amphibolite-metagabbro inclusions
- 12 Buff to cream, medium grained, recrystallized clinopyroxene bearing monzonite; typically containing relict, ovoid, plagioclase phenocrysts
- 11 Metagabbro varying to amphibolite. Composition ranges from melano to leuco gabbroid. Texture varies from massive, medium to coarse grained, to foliated, locally schistose.

AGN

Inclusions of early amphibolite - amphibolite gneiss in gabbroid and granitoid rocks of Mealy Mountains Intrusive Suite

DOME MOUNTAIN INTRUSIVE SUITE

- 10 Pink to buff, medium grained, massive to weakly foliated alkali feldspar granite, quartz syenite and lesser granite, all with abundant inclusions of metagabbro-amphibolite
- 9 Purple-gray, medium to coarse grained, inequigranular, hornblende-pyroxene monzonite with abundant inclusions of metagabbro-amphibolite
- 8 Purple-gray, medium grained, weakly to moderately foliated quartz monzodiorite-monzodiorite with equigranular to seriate texture and containing abundant inclusions of metagabbro-amphibolite
- 7 Gray, medium grained, moderately to strongly foliated and gneissic, quartz monzonite to monzonite; generally exhibits equigranular texture and contains abundant inclusions of metagabbro-amphibolite
- 6 Gray, foliated, megacrystic biotite granite; 6g, lesser equigranular phases; 6gg, minor gneissic varieties
- 5 Amphibolite to metagabbro and minor amphibolite gneiss forming enclaves within younger plutonic rocks. 5an, anorthosite to leucogabbroid. May include rocks of more than one age

NORTHWEST RIVER ANORTHOITIC INTRUSIVE SUITE

- 4 Coarse grained anorthosite-leucogabbroid, (including leuconorite and leucotroctolite) 4a, gabbroid-metagabbroid rocks associated with anorthosite
- 3 3a, Layered metagabbroid and amphibolite; 3um, meta-ultramafite and hornblende. This unit is intimately sheeted by granitoid intrusions
- 2 Pink to grey, migmatitic, quartz + feldspar + biotite + sillimanite metasedimentary gneiss
- 1 Grey, banded, migmatitic, biotite + hornblende and garnet gneisses of predominantly quartz diorite to granodiorite composition and containing abundant interbeds of 1a, amphibolite and amphibolite gneiss; 1q, foliated to weakly gneissic hornblende quartz diorite; 1g, granitic gneiss

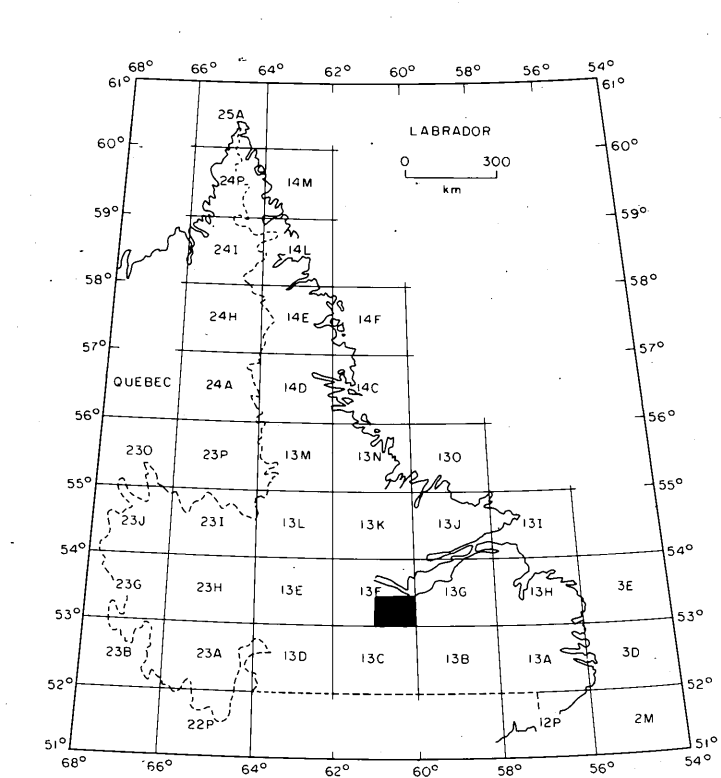
NOTE: This map is preliminary and may be subject to revision and correction

KEY TO MINOR LITHOLOGICAL UNITS

- m - pink to grey monzonite
- hm - buff monzonite
- qm - pink quartz monzonite
- g - pink granite
- g2g - grey (pyroxene bearing?) granite
- gl - pink to white leucogranite
- afg - buff to pink alkali feldspar granite
- sy - buff to pink syenite-quartz syenite
- mdi - brown to grey monzodiorite
- qdi - quartz diorite
- di - diorite
- a - amphibolite to metagabbro
- agn - amphibolite gneiss
- an - anorthosite - leucogabbro
- um - ultramafite - hornblende
- ggn - pink to grey granitic gneiss
- g2gn - grey granitoid gneiss
- sygn - pink syenitic gneiss
- uc - grey foliated megacrystic granitoid

KEY TO SYMBOLS

- Pleistocene drift
- ▨ Drumlinoid ridges and striated till
- X Outcrop
- Area of Outcrop
- + Outcrop observed from the air only
- △ Angular float
- Geological contact; assumed, approximate, defined
- Fault; assumed, approximate, defined
- ↘↗ Shallow to moderately dipping ductile shear zone; assumed, approximate, defined
- ↘↗ Gneissosity; inclined, vertical, trend
- ↘↗ Foliation; inclined, vertical, trend
- ↘↗ Igneous lamination or layering, tops unknown; inclined, vertical, trend
- ↘↗ Foliation parallel to igneous lamination or layering
- ↘↗ Lineation with plunge value
- X Mineral showing, Mag = magnetite
- Air photo lineament



PRELIMINARY MAP SUBJECT TO REVISION AND CORRECTION



13F/36

86-60  
GEOLOGY OF THE GOOSE BAY AREA 13F/SE

R.J. WARDLE AND L. CRISBY