



GEOLoGICAL SURVEy oF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

LEGEND

QUATERNARY
PLEISTOCENE-RECENT
Qu Chiefly unconsolidated glacial drift; in part reworked by lakes, streams, and frost action; cutwash plains (sandurs), bog deposits

CRETACEOUS-PALEOGENE (?)
KT4 Undifferentiated sedimentary rocks, poorly consolidated, in part light coloured and quartzose

HADRYNIAN
Hg FRANKLIN INTRUSIONS: Tholeitic diabase

APHEBIAN
Ag Massive granite-granodiorite; chiefly pink quartz monzonite; fine- to coarse-grained and pegmatic; abundant aplite and pegmatite dykes

Ack Charnockite to monzochrosocite (hypersthene granite to hypersthene quartz monzonite); minor granocenobite (hypersthene granodiorite); chiefly light grey to greyish pink, massive, medium- to coarse-grained; potash feldspar phenocrysts common

Aqp Porphyritic quartz monzonite - granodiorite; minor granite, stenocenobite, light grey, greyish pink to pink, massive to foliated, medium grained; potash feldspar phenocrysts, commonly locally granulated

Amp Porphyritic migmatite; commonly of granodioritic composition; abundant schlieren, pegmatite, potash feldspar porphyroblasts; medium grained, pinkish grey, light to dark grey, pink; streaky laminated to thin banded, massive

Amg Chiefly banded migmatite; white to light grey granitoid bands alternate with pink to black more mafic bands, some pink to red and reddish brown. Bands characterized by diverse composition, origin and geometry. Granitoid bands commonly appear to have been introduced. Derived in part from Mary River Group, and may include some gneisses basement to this group

ARCHEAN AND/OR PROTEROZOIC

MARY RIVER GROUP (Mq-M)

M Undivided Mary River Group: Mq-M. Chiefly undifferentiated metasediments, mainly meta-quartz-feldspar schists and gneisses to dark grey, very thin bedded to massive. Minor hornblende-, garnet-, aluminosilicate-, pyroxene-, and cordierite-bearing gneisses; lit-par-lit gneiss; quartzite, basic metacarbonate rocks, local acid metavolcanics

Mb Basic metacarbonate rocks; chiefly amphibolite and pyroxene gneiss; fine- to medium-grained, dark greyish green to black, laminated to massive; minor metasediments; local acid metavolcanics, metamorphosed ultrabasic and anorthositic rocks

Mg Metagabbro, chiefly amphibolite, fine- to medium-grained, dark greenish grey, foliated to massive

Mq Quartzite; fine- to medium-grained, white to pale pink, very thin bedded to massive; includes a vivid orange weathering rusty zone

gr Foliated quartz monzonite-granodiorite, local granite, light pink to light grey, medium-grained, massive, minor faint layering; schlieren, mafic lenses, potash feldspar augen. In part younger than Mary River Group

b Amphibolite dykes, sills; fine- to medium-grained, dark green to black, massive, commonly foliated and/or lineated

mu Undifferentiated gneisses, mixed rocks; chiefly undivided Amg, Amp, Amn; minor supracrustal rocks, veined gneiss, amphibitic gneiss, mafic plutonic rocks

bg Homogeneous quartz-biotite-feldspar gneiss; chiefly of granodioritic composition; grey to locally grey-black, fine- to medium-grained; massive, foliated, indistinct thick layering in places

ARCHEAN

Amn Fluid-rebultic granodiorite migmatite; minor quartz monzonite-granodiorite; light grey, pinkish grey, pink; minor greyish black, greenish grey, brownish grey, medium-grained, massive. Commonly foliated and thin laminae; schlieren, lenses and bounding bands of amphibolite, pyroxene gneiss, metasedimentary and granitoid rocks are common, streaky appearance common; potash feldspar augen abundant locally. May include some Aphebian rocks

Note: Relative ages of some map units are uncertain, and individual map units may include rocks belonging to other units

Geological boundary (defined, approximate, assumed, gradational) ...
Granulite facies in Aphebian and Archean rocks as defined mainly by the presence of hypersthene (triangles point toward the granulite facies) ...

Bedding, tops unknown (inclined) ...

Foliation, general trend, dip unknown ...

Gneissic layering, mainly ground determinations (horizontal, inclined, vertical, inclination unknown; g-gentle, s-steep) ...

Undifferentiated foliation; main airbase or airphoto determinations (horizontal, inclined, vertical, inclination unknown; g-gentle, m-moderate) ...

Linear structures:

Microfold axis; microscopic to hand specimen (horizontal, plunging) ...

Mesoscopic fold axis; hand specimen to large outcrop (horizontal, plunging) ...

Recurved fold axis (horizontal, plunging) ...

Rodding; mineral aggregate or segregate, elongated rock fragments (horizontal, plunging) ...

Mullion structure (horizontal) ...

Mineral lineation; individual crystals (horizontal, plunging) ...

Trend of complexly folded horizon (plunge unknown) ...

Lineament ...

Fault, tick indicates direction of dip (defined, approximate, assumed) ...

Thrust fault, teeth indicate direction of dip (approximate and assumed) ...

Dyke (defined - approximate, inferred from aeromagnetic data) ...

Rusty zone ...

Antiform (upright-inclined, overturned-recumbent; defined-approximate) ...

Synform (upright-inclined, overturned-recumbent; defined-approximate; arrow indicates direction of plunge) ...

Fold structure, nature uncertain ...

Glacial striæ (direction of ice movement undetermined) ...

Older end and lateral moraines ...

Age determination in millions of years (K-potassium-argon, w-whole-rock, b-biotite) ...

1665 ± 53

Inuit dwelling site (most have square outline) ...

Mineral locality ...

MINERALS
Atacamite am Hematite hem
Cordierite(gem quality) cd Malachite ma



MAP 1449A

GEOLOGY

BUCHAN GULF-SCOTT INLET

DISTRICT OF FRANKLIN

Scale 1:250,000

Kilometres 0 6 12 18 Kilometres
Miles 0 4 8 Miles
Universal Transverse Mercator Projection
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Base-maps at the same scale published by the Surveys and Mapping Branch in 1966, 1967

Copies of the topographical edition of this map may be obtained from the Canada Map Office, 615 Booth Street, Ottawa, Ontario K1A 0E9

Mean magnetic declination 1977, 63°04'0" West, decreasing 15.9' annually. Readings vary from 61°01'8" in the SE corner to 65°18'0" in the NW corner of the map-area

Elevations in feet above mean sea-level

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