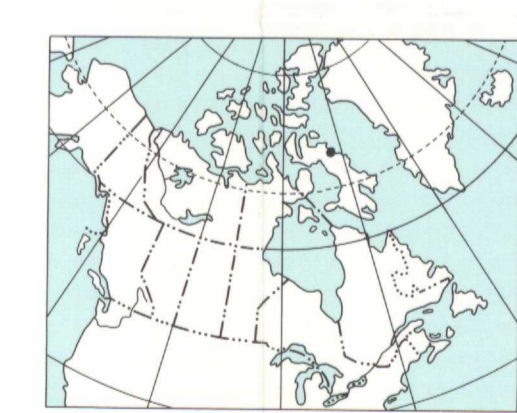
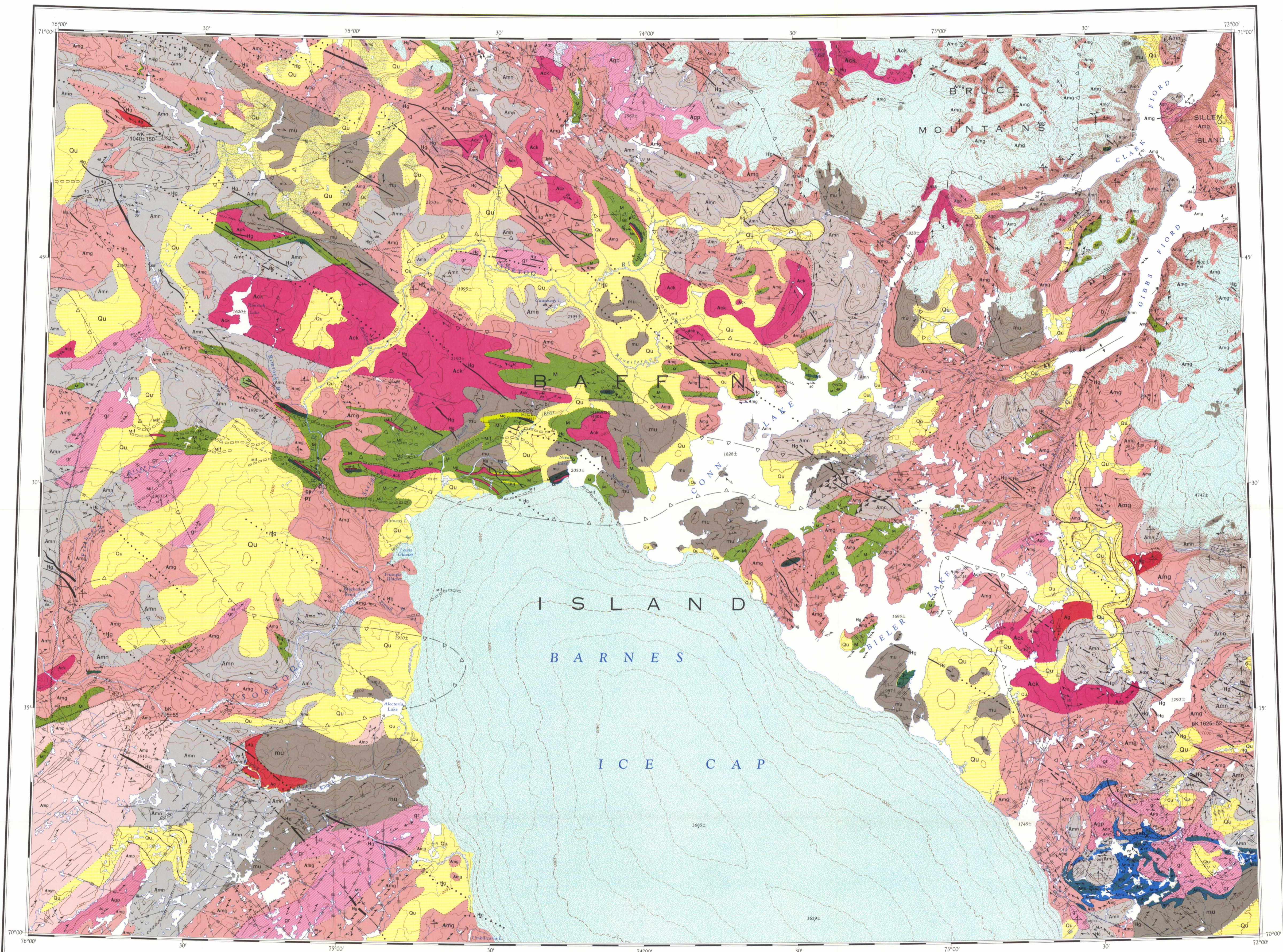


**LEGEND**

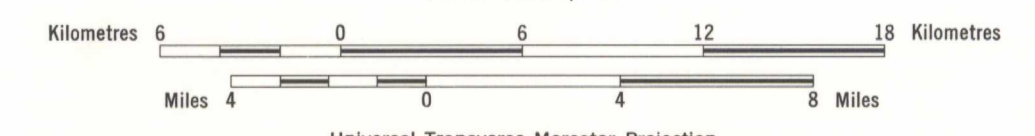
- CENOZOIC**
- QUATERNARY (PLEISTOCENE-RECENT)**
    - Qu Chiefly unconsolidated glacial drift; in part reworked by lakes, streams, and frost action; outwash plains (sandurs), bog deposits.
  - PALEOGENE**
    - ECLIPSE GROUP**
      - T "Rimrock Bed": impure limestone, thinly laminated.
  - HADRYNIAN**
    - Hg FRANKLIN INTRUSIONS: tholeiitic diabase; dark greyish green.
  - APHEBIAN**
    - Aq Massive granite-granodiorite; chiefly pink quartz monzonite; fine- to coarse-grained and pegmatitic; abundant apite and pegmatite dykes. The v symbol indicates the presence of Ag as dykes and sills in older rocks.
    - Ack Monzonochromite to granoanorthite (hypersthene quartz monzonite to hypersthene granodiorite); minor charnockite (hypersthene granite); chiefly light grey to greyish pink, light mauve, massive, and medium- to coarse-grained with potash feldspar phenocrysts; local crushed zones.
    - Agp Porphyritic granite-granodiorite; local syenite-syenodiorite; light grey, greyish pink to pink, minor red; massive to foliated, medium-grained; potash feldspar phenocrysts; local crushed zones.
    - Amp Porphyroblastic migmatite; commonly of granodioritic to quartz monzonitic composition; abundant schlieren, nebulae, potash feldspar porphyroblasts; streaky foliated to thinly banded and massive; medium- to fine-grained, pink to pinkish grey, light- to dark-grey and black.
    - Amg Banded migmatite; chiefly white to pink and grey granitic rocks interbanded with, and commonly containing schlieren of, grey to greyish green, black, and reddish black more mafic rocks; medium- to fine-grained, minor paragneiss, orthogneiss, agmatite, veinite, nebulite, apilite, pegmatite. Derived in part from Piling and Mary River groups, yet probably includes some basement to these groups; potash feldspar megacrysts abundant locally.
  - PROTEROZOIC**
    - APs PILING GROUP (APs - APs)
      - Upper part: quartz-mica feldspar paragneiss (chiefly metagreywacke, metasilstone); minor garnetiferous ill-pal-lit gneiss, and undifferentiated marble and quartzite; light to medium grey and green, pinkish to purplish grey; fine grained, laminated to medium bedded. Lower part: rusty micaceous schist, in part garnetiferous.
    - APm Upper formation: marble - mainly dolomite, calc-silicate rocks; white to grey and green, buff, medium- to coarse-grained, very thin bedded to massive; minor interbedded micaceous metasediments, orange to red calcite marble, local pegmatites, asbestos.
    - APq Lower formation: quartzite, feldspathic quartzite, meta-arkose; white to grey, pale pink, fine- to medium-grained, laminated to massive; minor calc-silicate rocks, sillimanite-mica-quartz-schist, pegmatite.
  - ARCHAEO AND/OR APHEBIAN**
    - M Undivided Mary River Group (Mq - M); chiefly ms, wb.
    - Mn Anorthosite, gabbroic anorthosite; pale green, very coarse grained, massive.
    - Mb Amphibolite, chiefly metamorphosed basic volcanic rocks; dark grey to dark green and black; medium grained; foliated to very thin bedded, some massive; minor metabasite, intermediate metavolcanics, metasediments; local hornblende and magnetite- and pyroxene-bearing rocks.
    - Mg Chiefly quartz-hornblende-biotite-feldspar paragneiss; medium- to dark-grey, green and brown, mottled pinkish grey, fine- to medium-grained; thick laminated to very thick bedded; minor ill-pal-lit gneiss, amphibolite, garnet schist, sillimanite, microcline, cordierite, muscovite, spinel, hypersthene are common.
    - Mif Metamorphosed iron-formation; chiefly interbedded quartz and magnetite-hematite of oxide facies, minor silicate facies; local iron ore (hematite and/or magnetite rock - beds and veins to 3 feet thick); light to dark grey, metallic blue-grey, and black; fine- to medium-grained; thin laminated to thick bedded, massive, sillimanite, feldspar, biotite, hypersthene, cummingtonite present locally.
    - Mq Quartzite; white, fine- to coarse-grained; thick laminated to very thick bedded.
    - gr Foliated granite-granodiorite; light pink to medium pink and pinkish grey; medium grained; massive on large scale, but foliated to faintly thin banded and lineated in detail; scattered schlieren, granite and pegmatite dykes; local crushed blastoporphyrific potash feldspar.
    - b Amphibolite dykes, sills; fine- to medium-grained; dark green to black, commonly foliated and/or lineated in detail.
    - mu Undifferentiated gneisses, mixed rocks; chiefly undivided Amg, Amp, gr, Amn; minor supracrustal rocks.
  - ARCHAEO**
    - Amn Swirly nebulitic migmatite of quartz monzonite to granodioritic composition; medium grained; light to medium grey and pink; minor greenish and brownish grey, white, black; finely foliated to medium bedded, massive, commonly streaky; amphibolite, biotite, paragneiss, granitoid and ultrabasic bands, boudins and schlieren vary in abundance; potash feldspar megacrysts abundant locally; minor massive granite-granodiorite, apilite and pegmatite dykes. May include some Apebian rocks.
- MINERALS**
- asb . . . . . asbestos
  - cp . . . . . chalcopyrite
  - py . . . . . pyrite
- Geology by G.D. Jackson, 1967; S.L. Blusson, W.J. Crawford, A. Davidson, W.C. Morgan, 1968.
- Compilation and interpretation by G.D. Jackson and W.C. Morgan, completed 1976.
- Geological cartography by R.Y. Potvin, Geological Survey of Canada.
- Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada.
- Base-map at the same scale published by the Surveys and Mapping Branch in 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, 59°39.0' West, decreasing 19.0' annually. Readings vary from 57°58.2' in the SE corner to 61°21.6' in the NW corner of the map-area.
- Elevations in feet above mean sea level
- |       |       |     |
|-------|-------|-----|
| 37G   | 37H   | 37I |
| 1451A | 1449A | 27F |
| 37F   | 37E   | 27E |
| 1450A | 1458A | 27G |
| 37C   | 37D   |     |
- NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS
- INDEX MAP**
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Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E9, 3303 - 33rd Street, N.W., Calgary, Alberta T2L 2A7

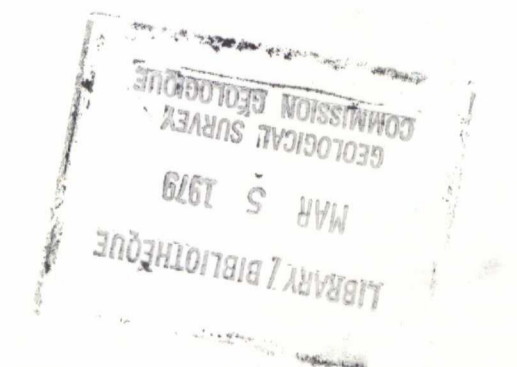
MAP 1458A  
 GEOLOGY  
**CONN LAKE**  
 DISTRICT OF FRANKLIN

Scale 1:250,000



Universal Transverse Mercator Projection  
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1458A

MAP 1458A  
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