

LEGEND

Note: Weighted legend blocks indicate map-units that appear on this map

- HELBICAN**
- Py** DUBAWNT GROUP  
MARTELL SYENITE (?): massive pyroxene - amphibole - biotite syenite
  - 7** Layered to nebulitic gneiss and migmatite, containing sheets and dykes of granite, apite, and pegmatite; largely biotite leucogneiss and pink granitic gneiss; may be in part equivalent to As, Af, 3, and 5; 7a, pink orthogneiss; gneissic granite and adamellite; may be largely derived from 3 and/or 5; 7b, pink porphyroblastic granitic gneiss and blastomylonites, distinguished from 7a by distinctive aeromagnetic character (7a and 7b do not occur on this map)
  - 6** Layered to irregularly layered gneiss, predominantly hornblende; alternating layers of grey amphibole-feldspar and grey biotite-quartz-feldspar gneiss in places; locally cut by dykes of granite and apite; may in part be equivalent to Av, Am, 1, and 2; 6a, massive dark grey amphibolites, hornblendites, and metagabbro
- APHEBIAN**
- Aa** HURWITZ GROUP  
AMEITO FORMATION: grey, green, and varicoloured mudstone, siltstone, slate, argillite, and greywacke, locally tuffaceous, minor greenstones; includes gabbro sill
  - Ak** KINGA FORMATION: white, pink, and grey orthoquartzites, minor impure quartzite, oligomictic conglomerate and grit
  - Ap** PADLET FORMATION: grey, polymictic conglomerate and bouldery to pebbly mudstone; minor rhythmically layered mudstone, siltstone, argillite and slate
  - Am** MONTGOMERY LAKE SEDIMENTS  
Impure, grey and green, pyrite, quartz arenites, grit, siltstone, and oligomictic conglomerate; minor basal polymictic conglomerate and greywacke
  - Ad** Porphyritic (plagioclase) diabase and metadiabase, post Kenoran and pre-Hurwitz; relation with Am and A'q unclear; Ad', metadiabase and metagabbro dykes; south of 62°25'N may be equivalent to Ad, many north of this may be substantially younger
  - 5** Massive, equigranular, pink granite; locally grades into migmatites with As' and A'q; may be Kenoran and/or Hudsonian in age; younger than 3
- PRECAMBRIAN**
- A'q** MACKENZIE LAKE METASEDIMENTS  
Metamorphosed arkose, granite- and quartz-pebble conglomerate, impure quartzite; pink and grey schist and gneiss; relation to Hurwitz Group and Montgomery Lake sediments not known; A'q, layered quartzofeldspathic gneiss and pink granitic gneiss; nebulitic granitic gneiss; migmatite formed from A'q and 5
  - 3** Chiefly massive, homogeneous pink, porphyritic (microcline) biotite adamellite; minor pink granite, granodiorite, and pegmatite; younger than 2; 3a, pink, medium-grained, nonporphyritic adamellite; 3b, chiefly massive, pink granodiorite; minor quartz diorite; 3' and 3b', orthogneiss derived from 3 and 3b in Hudsonian Orogeny; locally cut by granitic dykes (3' does not occur on this map)
  - 2** Chiefly massive, grey hornblende tonalite; minor leucodiorite and grey biotite-hornblende granodiorite; minor agmatite with Av and 1; younger than 1; 2', fine-grained, recrystallized tonalite or granodiorite; orthogneiss derived from 2 in Hudsonian Orogeny; locally cut by granite and apite dykes
  - 1** Chiefly grey hornblende diorite or leucogabbro; minor tonalite and agmatite with Av; 1', fine- to medium-grained biotite-hornblende diorite orthogneiss; derived from 1 in Hudsonian Orogeny; locally cut by granitic dykes (1' does not occur on this map)
- ARCHAIC**
- As** KAMINAK GROUP  
Greywacke and slate, in part graded; minor tuff, and/or tuffaceous greywacke, volcanic pebble conglomerate, argillite and iron-formation; locally contains felsic volcanics; As', biotite schist and leucogneiss derived from As in the Hudsonian Orogeny; locally contains garnet, andalusite, cordierite, and sillimanite; Asn, grey and pink leucogneiss and schist, lit-par-lit granitic migmatites; grades into As' to which it may in part be equivalent (Asn does not occur on this map)
  - Av** Undifferentiated volcanic rocks, largely pillowed volcanics and agglomerates; includes mafic and felsic flows (Am + Ad); Avs, undivided volcanic and sedimentary rocks; Av', intercalated amphibolitic and quartzofeldspathic schist; Avn, layered mafic schist and gneiss with layers of quartzofeldspathic gneiss; minor metagabbro and meta-volcanics with relict structures
  - Af** Felsic tuff, agglomerate, flow breccia; includes associated quartz and quartz-feldspar porphyry intrusions
  - Am** Massive or pillowed basaltic and andesitic greenstones; includes associated mafic intrusions; Amg, undivided mafic flows and gabbroic sills; Am', predominantly amphibolitic greenstones, amphibole schist and gneiss; minor metagabbro and quartzofeldspathic schist; Amn, amphibole gneiss, in places intercalated with quartzofeldspathic gneiss; minor metagabbro (Am' does not occur on this map)

- Drift-covered area . . . . .
- Geological boundary (defined, approximate, assumed) . . . . .
- Geological boundary (gradational) . . . . .
- Bedding, tops known (inclined, vertical, overturned, dip unknown) . . . . .
- Bedding, tops unknown (inclined, vertical) . . . . .
- Foliation, cleavage, schistosity (inclined, vertical) . . . . .
- Foliation defined by mineral orientation in gneissic rocks, commonly called gneissic foliation (inclined, vertical) . . . . .
- Compositional layering, metamorphic layering, commonly called gneissic layering (inclined, vertical) . . . . .
- Mineral lineation (inclined) . . . . .
- Lamination, foliation-layering intersection, minor foldaxes . . . . .
- Fault (defined, approximate, assumed) . . . . .
- Mineral occurrence (pyrite, gossan) . . . . .
- Mineral occurrence (iron-formation) . . . . .

Geology by R. T. Bell, 1968  
To accompany GSC Paper 70-61 by R. T. Bell

This preliminary edition may be subject to revision and correction  
Geological cartography by the Geological Survey of Canada

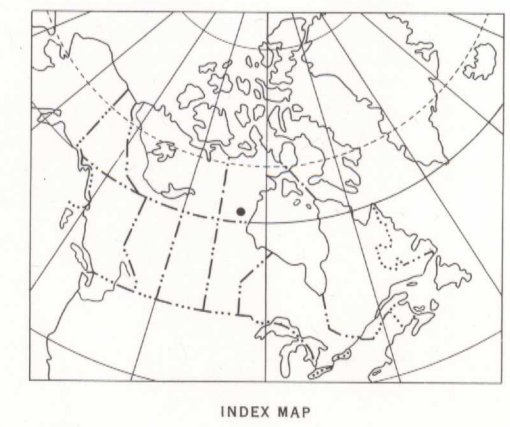
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map at the same scale published by the Army Survey Establishment, R. C. E. in 1963

Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa

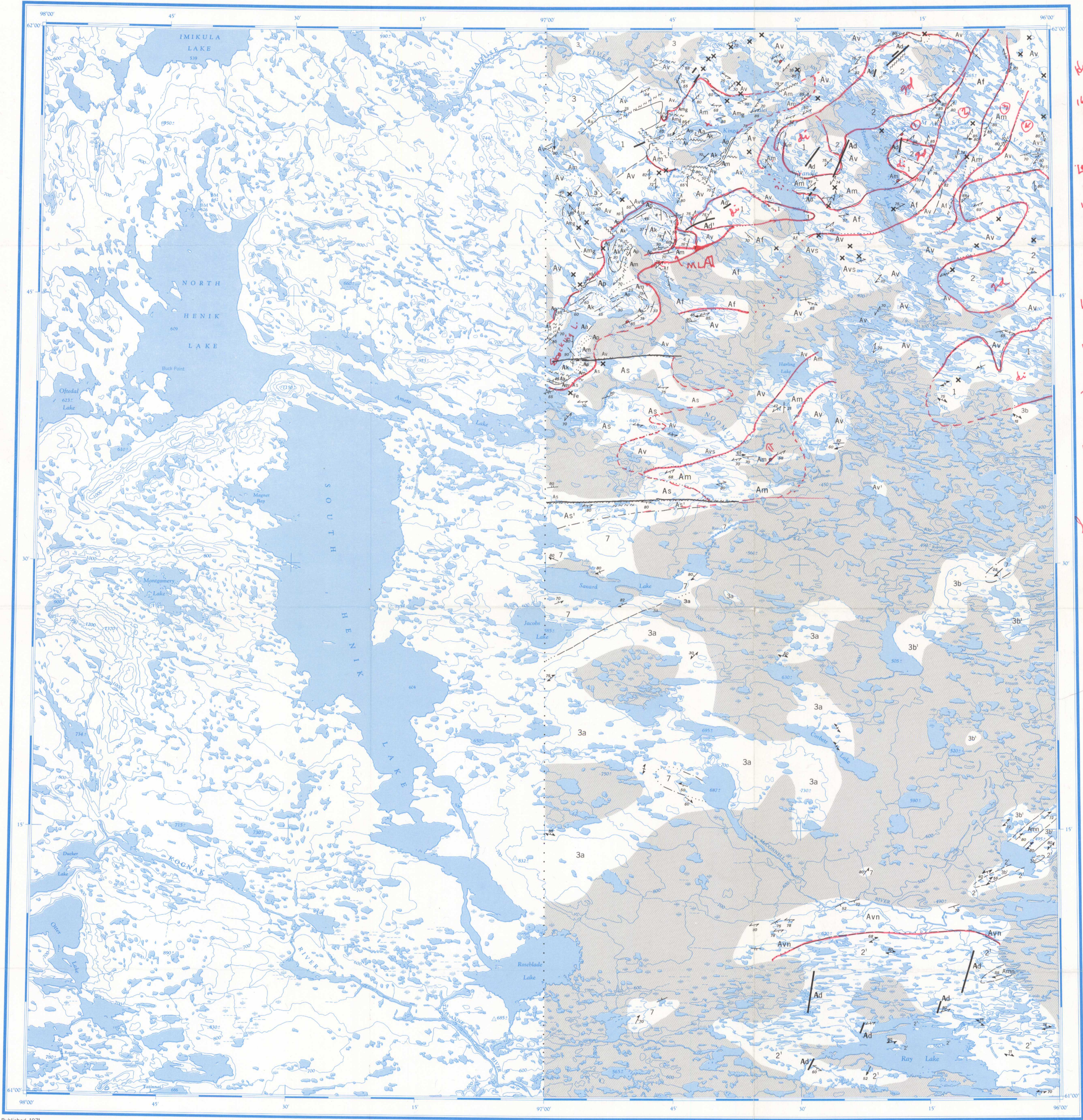
Magnetic declination 1970 varies from 5°40' easterly at centre of west edge to 8°10' easterly at centre of west edge. Mean annual change increasing 3.8' annually

Elevations in feet above mean sea-level



Published, 1971  
Copies of this map may be obtained from the Geological Survey of Canada, Ottawa

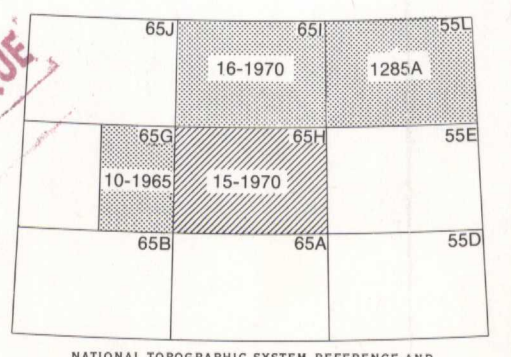
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