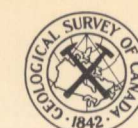
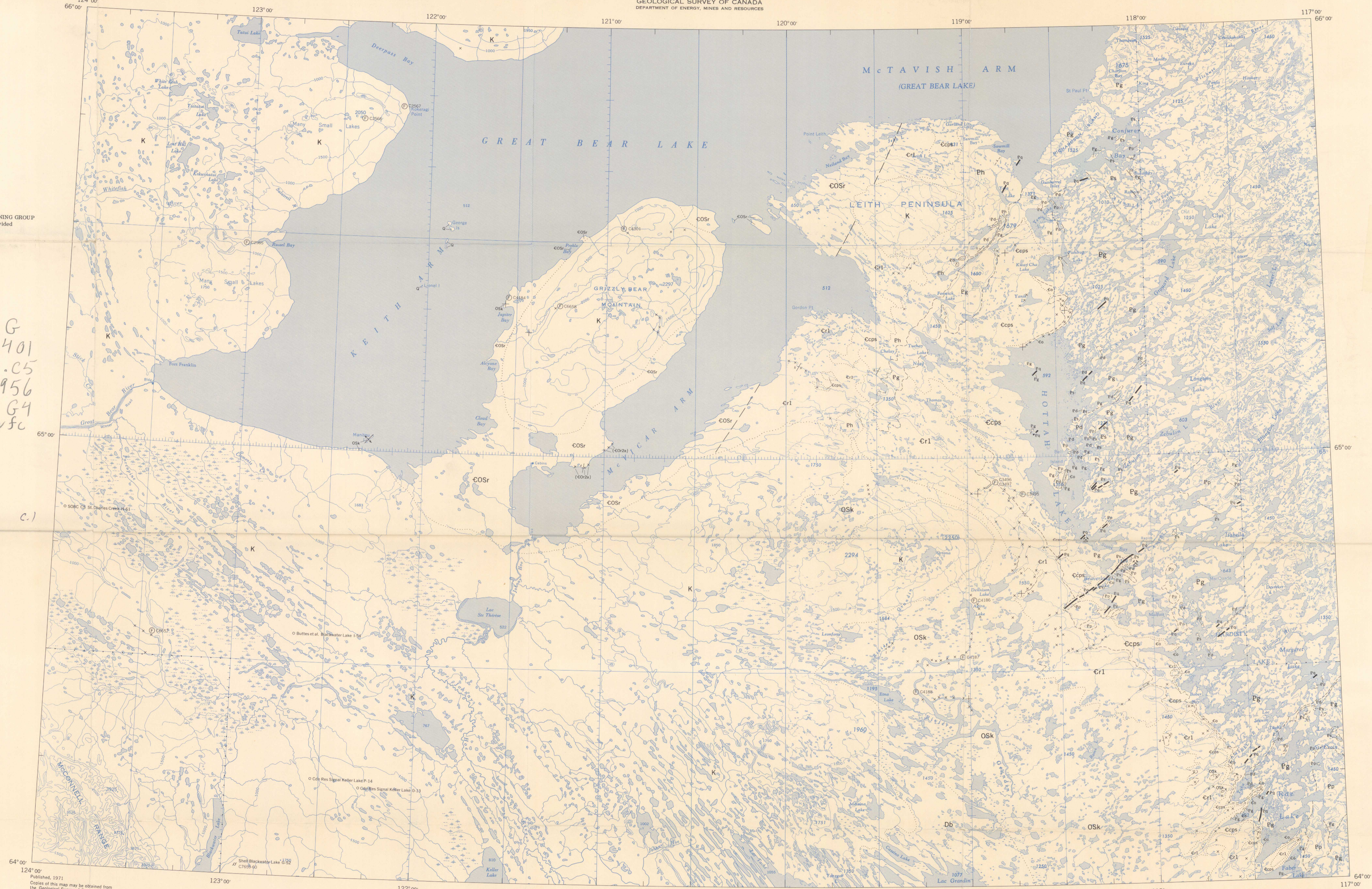


5-1971



GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

PRELIMINARY SERIES



- LEGEND**
- QUATERNARY**
- Q Glacial drift, lake deposits (mapped only on islands in Keith Arm)
- MESOZOIC**
- CRETACEOUS**
- LOWER AND UPPER CRETACEOUS
 - K Undivided Cretaceous rocks: dark grey shale; grey mudstone, sandstone, and siltstone; minor lignite
- DEVONIAN**
- LOWER AND (?) MIDDLE DEVONIAN
 - DB BEAR ROCK FORMATION: brecciated dolomite and limestone; anhydrite; distribution extrapolated from Norris (1965)
- ORDOVICIAN AND (?) SILURIAN**
- UPPER ORDOVICIAN AND (?) LOWER SILURIAN**
- RONNING GROUP**
- OSK MOUNT KINDLE FORMATION: brownish grey dolomite; silicified fossils; minor chert
- CAMBRIAN AND ORDOVICIAN**
- (?) MIDDLE AND UPPER CAMBRIAN, LOWER ORDOVICIAN (?)
 - CO2a Rhythmic unit: brownish grey and greyish orange dolomite; included in unit COSr
- MIDDLE AND (?) UPPER CAMBRIAN**
- Cr1 'Cyclic unit': varietextured pale orange dolomite; green and maroon shale
- (?) LOWER, MIDDLE AND UPPER (?) CAMBRIAN**
- CCps SALINE RIVER AND MOUNT CAP FORMATIONS (Undivided): red and green shale; buff and brown dolomite; glauconitic sandstone
- (?) LOWER AND MIDDLE CAMBRIAN**
- CO OLD FORT ISLAND FORMATION: grey, white, pink quartz; sandstone
- (?) HADRYNIAN, NEOHELKIAN, AND PALEOHELKIAN**
- Pd Gabbro sills and dykes: dark green to black, partly diabasic gabbro
 - Eq Large quartz veins: white to pink quartz
- PALEOHELKIAN**
- HORNBY BAY GROUP**
- Ph Upper part: stromatolitic dolomite and chert
 - Lower part: white, pink, buff and maroon quartzite
- ADHEBIAN**
- Pg Granite: pink, equigranular and porphyritic granite
 - Pp Feldspar porphyries: pink, brown, black dacite and quartz latite
- SNARE, ECHO BAY, AND CAMERON BAY GROUPS (Undivided):**
- Es Partly to intensely metamorphosed conglomerate, sandstone, argillite, andesite

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c.1

- Outcrop of Phanerozoic rocks
- Geological boundary (defined, approximate, assumed; includes contacts extended by airphoto interpretation)
- Limit of definitive outcrop control of Ronning Group
- Limit of geological mapping
- Bedding, tops known (horizontal, inclined)
- Bedding, tops known (estimated from airphotos or from aircraft; 5-15)
- Bedding, tops unknown
- Anticline (defined)
- Fossil locality (GSC collection number)
- Mine (abandoned)
- Well (drilled and abandoned)
- Well, location announced (reports of monthly activities: Northern Economic Development Branch, Department of Indian Affairs and Northern Development, November and December, 1970, and January, 1971)

Geology by H. R. Balkwill, 1960, J. D. Aiken, 1968, J. A. Fraser, 1967, J. F. Henderson, 1949, and D. F. Kidd, 1933, 1936

Compiled by H. R. Balkwill, 1970

To accompany GSC Paper 71-11, by H. R. Balkwill

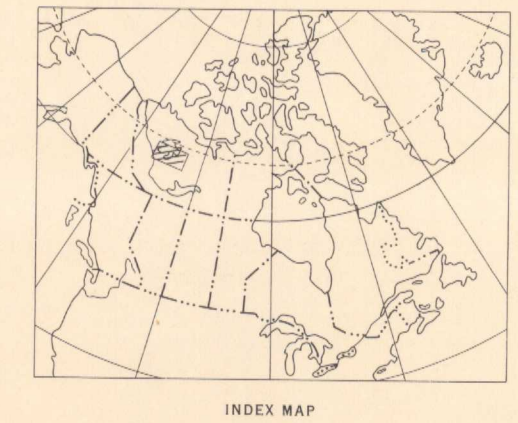
Geological cartography by the Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada, 1971

Base-map (Norman, east half and part of Camsell River, west half) from 1/500,000 scale maps compiled and drawn by Surveys and Mapping Branch, 1964, 1967

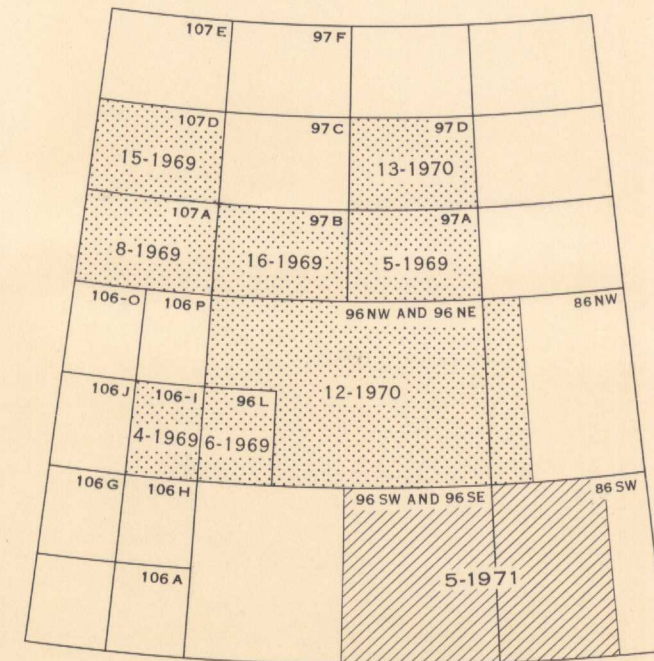
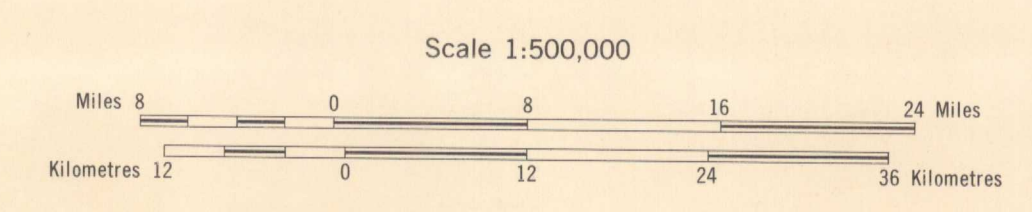
Magnetic declination 1971 varies from 37°39' easterly at centre of west edge to 36°53' easterly at centre of east edge. Mean annual change - 7.9'

Elevations in feet above mean sea-level

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



MAP 5-1971
PAPER 71-11
GEOLOGY
NORMAN, AND CAMSELL RIVER
DISTRICT OF MACKENZIE



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