

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

HELVETIAN

ALPINE

ARCHAIC

- LEGEND**
- 13 Diabase
 - HURWITZ GROUP**
 - 12 TAVANI FORMATION: Pink and brown quartzose and feldspathic sandstone; quartzite, impure quartzite and greywacke; minor pebble beds, conglomerate; locally calcareous
 - 11 AMETO FORMATION: grey, green, black or red slate and mudstone; 11a, Hapoytyik Member, massive and pillowed andesite and basalt; 11b, gabbro sills and lenses
 - KINGA FORMATION: Whiterock Lake Member: pink and white fine grained orthoquartzite, thin bedded and ripple-marked**
 - GNEISSIC AND GRANITIC ROCKS**
 - 9 Chiefly massive to weakly foliated pink granite, locally porphyritic; sills and dykes
 - 8 Gneiss and migmatite
 - 7 Layered gneiss and quartz biotite schist; locally garnet-bearing quartz-magnetite rock derived from Kaminak Group; more or less uniformly layered gneiss grading into contorted gneiss and migmatite
 - 6 Cordierite-sillimanite-biotite schist and gneiss; thinly layered to extremely contorted
 - PLUTONIC ROCKS**
 - 5 Diorite, gabbro; massive to layered, few to abundant mafic inclusions; in part meta-gabbro possibly of same age as Kaminak volcanics
 - 4 Quartz diorite, granodiorite, and quartz monzonite, massive to foliated, in part porphyritic (P); 4a, well foliated to gneissic; 4b, abundant inclusions, in part migmatitic
 - KAMINAK GROUP**
 - 3 Slate, argillite, impure sandstone greywacke iron-formation; 3a, conglomerate; with increasing metamorphism grades into schist and gneiss; 3b, dolomite and calcareous sediments
 - 2 Felsic volcanic rocks; dacite, rhyolite, quartz and quartz-feldspar porphyries; commonly intensely sheared and metamorphosed to quartz sericite schist
 - 1 Mafic volcanic rocks; basaltic to andesitic flows, in part pillowed; tuff and agglomerate; minor breccia; 1a, related gabbroic intrusions; 1b, amphibolite and amphibolite gneiss

- Drift covered area
- Outcrop
- Geological boundary (defined, approximate, assumed)
- Bedding, tops known (inclined, vertical, overturned, dip unknown)
- Bedding, tops unknown (inclined, vertical, dip unknown)
- Schistosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)
- Mineral lineation (inclined)
- Lineation, foliation-layering intersection minor fold axes
- Fault (defined, approximate, assumed)
- Antiform, synform (approximate)
- Magnetite iron-formation (observed, deduced from aeromagnetic data)
- Mineral occurrence

MINERALS

Chalcopyrite.....cp	Pyrite.....py
Gold.....Au	Pyrrhotite.....po
Iron oxide.....Fe	Zinc.....Zn
Nickel.....Ni	

Geology by W. W. Heywood, 1967

To accompany Paper 72-47 by W. W. Heywood

This preliminary edition may be subject to revision and correction

Geological cartography by the Geological Survey of Canada

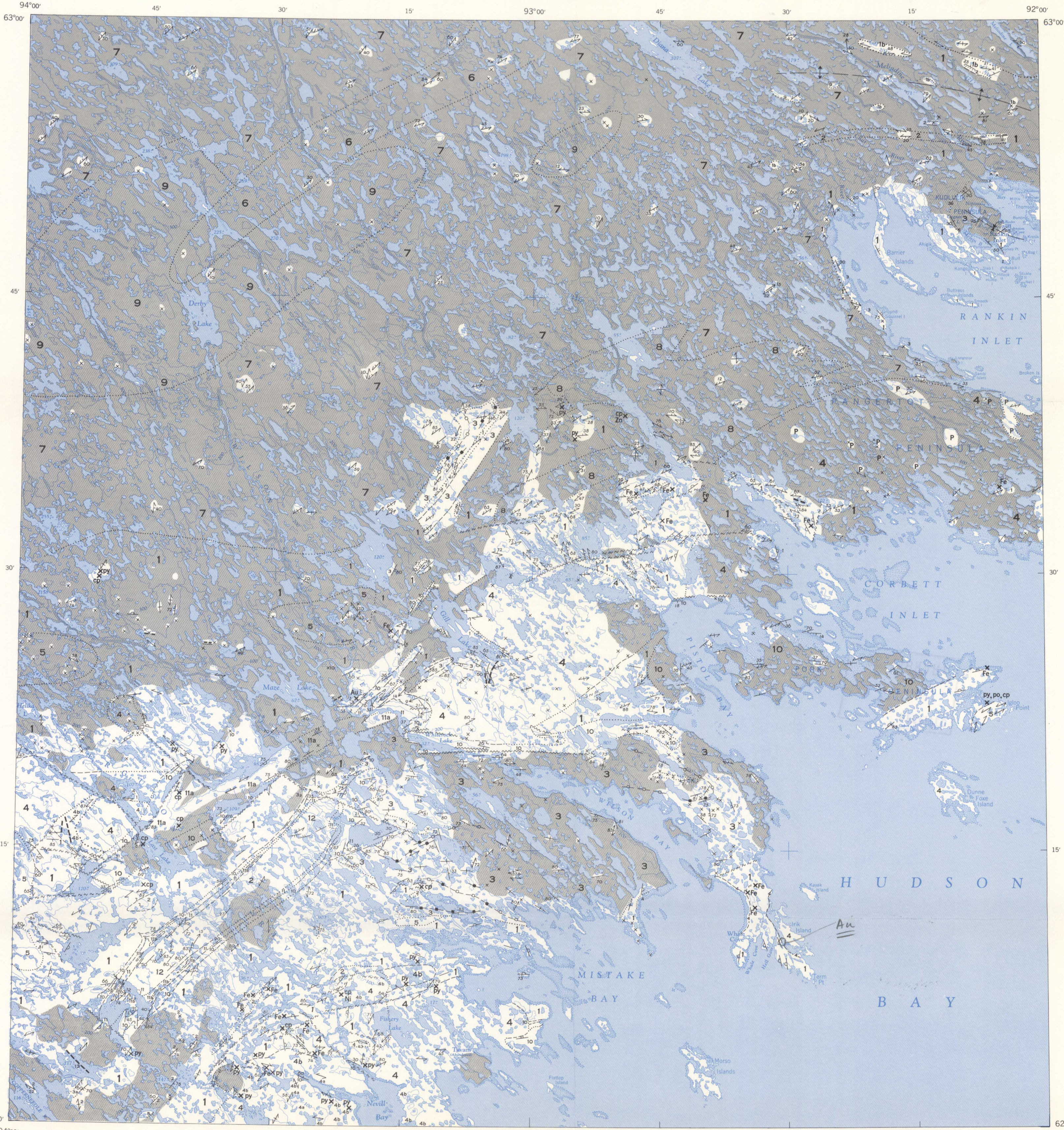
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map at the same scale published by the Army Survey Establishment R. C. E., 1964

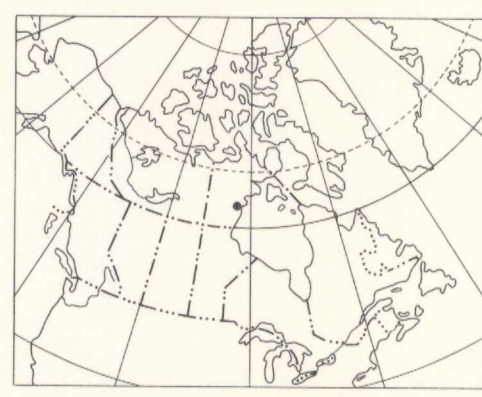
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Magnetic declination 1973 varies from 0°26' easterly at centre of west edge to 5°10' westerly at centre of east edge. Mean annual change -7.1' easterly

Elevations in feet above mean sea-level



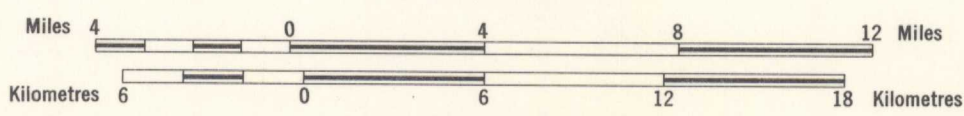
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GEOLOGY
TAVANI
DISTRICT OF KEEWATIN

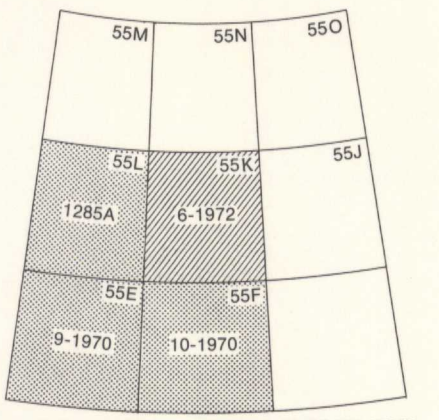
Scale 1:250,000



Universal Transverse Mercator Projection

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NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

MAP 6-1972

TAVANI
DISTRICT OF KEEWATIN

N.W.T. TAVANI
1:250,000
MAP 6-1972
1973