

LEGEND

**QUATERNARY**

Qu Drift-covered area

**HELIXIAN**

Hdb Diabase and gabbro (northwest-trending Mackenzie Dykes)

Ag Granite; Agp, porphyritic fluorite-bearing granite; Aggr, with rapakivi texture

**DUBAWNT GROUP (AD)**

ADM MARTELL SYENITE: syenite, monzonite, minor alkali granite; Adm1, lamprophyre dykes, porphyritic syenite to syenodiorite dykes

**CHRISTOPHER ISLAND FORMATION (ADC)**

ADC mafic trachyte; ADC1, felsic trachyte; ADCr, tholite; ADCp, pyroclastic rocks; ADCpv, pyroclastic rocks, vent breccia and agglomerate; ADCv, vent breccia and agglomerate; ADCs, volcanoclastic sedimentary rocks

**SOUTH CHANNEL FORMATION (ADS)**

ADS conglomerate; minor sandstone, siltstone, mudstone lenses

**ANGKUNI FORMATION (ADA)**

ADA arkosic sandstone, thinly bedded siltstone, mudstone and sandstone

Ay Hornblende syenite

Aqm Quartz monzonite, granite, in part porphyritic; minor syenite, granodiorite and quartz diorite

Ango Orthogneiss, largely biotite-quartz monzonite gneiss with potassium feldspar porphyroblasts; cut by up to 15 per cent dykes and stringers of quartz monzonite and granite pegmatite

**Method:**

potassium-argon, uranium-thorium-lead K/U

**Material:**

b, biotite; h, hornblende; m, muscovite; w, whole rock; z, zircon

**Mineral occurrence (py, pyrite; po, pyrrhotite; cp, chalcopyrite; gn, garnet)**

py, po, cp, gn

90°x

Giant quartz vein

**APACHEAN**

AHT TAVANI FORMATION: arkose, meta-arkose, impure quartzite, mica schists

AHW WATTERSON FORMATION: dolomite, phyllite, argillite; Ahw1, calc-silicatic rock and quartz-mica schist

AHK KINGA FORMATION: orthoquartzite

Ado Diabase and gabbro (east-trending Tulemalu Dykes)

Ado Metagabbro (northeast-trending Kazan Dykes); Ado1, hornblende dykes

Ab Gabbro, metagabbro; Ab1, diorite

Aqm Quartz monzonite to granodiorite, massive to slightly foliated

Agg Granodiorite to quartz monzonite, massive to foliated; includes some Ang

Ang Granodiorite gneiss, tonalite gneiss; includes some orthogneiss, layered gneiss, swirled to nebulitic gneiss and amphibolite inclusions; minor quartz monzonite veins; Ang1, quartz diorite gneiss; minor quartz monzonite veins; Ango, granodiorite orthogneiss; minor quartz monzonite veins; Angp, pyroxene-bearing granodiorite gneiss and swirled to nebulitic gneiss; minor mafic-inch agmatite and layered gneiss; Angm, granodiorite gneiss containing abundant amphibolite inclusions; Anga, augen gneiss, granodiorite to quartz monzonite composition; Angs, as Ang but cut by dykes and irregular masses of gabbro and metagabbro (Ab)

Anl Migmatite to irregularly layered, banded, or nebulitic gneiss; minor agmatite; includes minor Ang and Amm; commonly cut by dykes and sheets of quartz monzonite, Aqm or pegmatite

**HENIK GROUP**

Asn Migmatized paragneiss, with minor amphibolite and Ang, commonly cut by dykes and sheets of quartz monzonite (Aqm) or rarely Aqm; Asn1, migmatized amphibolite with minor paragneiss, probably derived from basic to intermediate volcanic rocks; Asnt, paragneiss, in part migmatized, with minor Ang, and amphibolite, probably derived from intermediate to felsic tuff; Asnr, pyroxene-bearing migmatized paragneiss

Amm Predominantly amphibolite; minor amphibolitic greenstone, amphibole schist and gneiss

As Metagreywacke with some metatuff

Acif Carbonate iron formation

Amp1 Chert-pyrite iron formation

Amtm Chert-magnetite iron formation

**Geology by K.E. Eads and F.W. Chandler, 1973  
 K.E. Eads, 1976, 1976, and D.H. Blake, 1976**

**Geological cartography by J.A.Y. Pratt, Geological Survey of Canada**

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

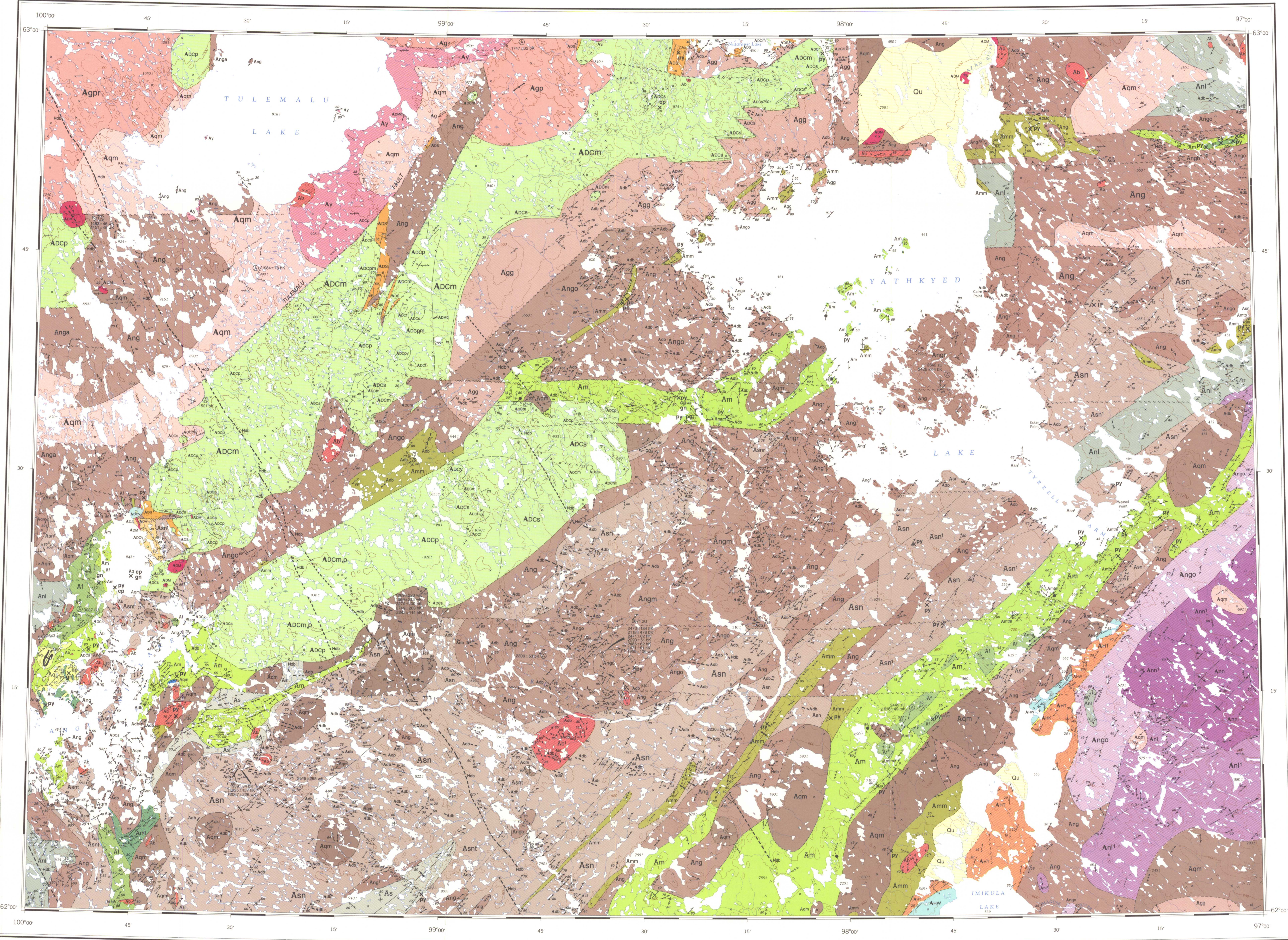
Base map assembled by the Geological Survey of Canada from maps published at the same scale by the Army Survey Establishment, R.C.E., in 1959, 1961

Copies of the Topographical editions of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, Ontario, K1A 0E9

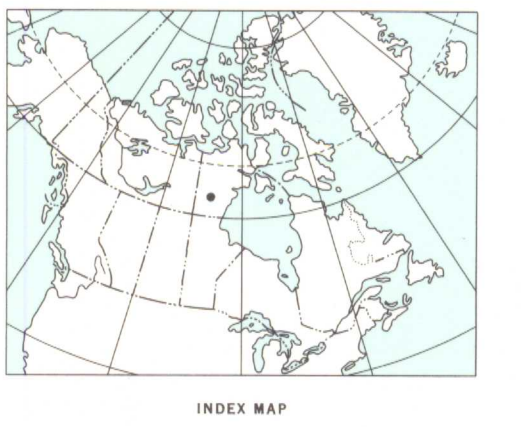
Mean magnetic declination 1983, 7°43.1' East, decreasing 21.3' annually  
 Readings vary from 2°50.0' in the SE corner to 12°35.0' in the NW corner of the map area

Elevations in feet above mean sea level

**Recommended citation:**  
 Eads, K.E.  
 1985. Geology, Tulemalu Lake - Yathkyed Lake, District of Keewatin, Northwest Territories. Geological Survey of Canada, Map 1604A, scale 1:250,000



Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8, 3903-33rd Street, N.W., Calgary, Alberta T2L 2A7

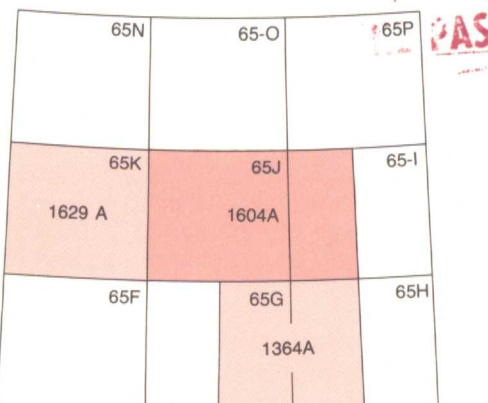


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MAP 1604A  
 GEOLOGY  
**TULEMALU LAKE  
 YATHKYED LAKE AREA**  
 DISTRICT OF KEEWATIN  
 NORTHWEST TERRITORIES

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