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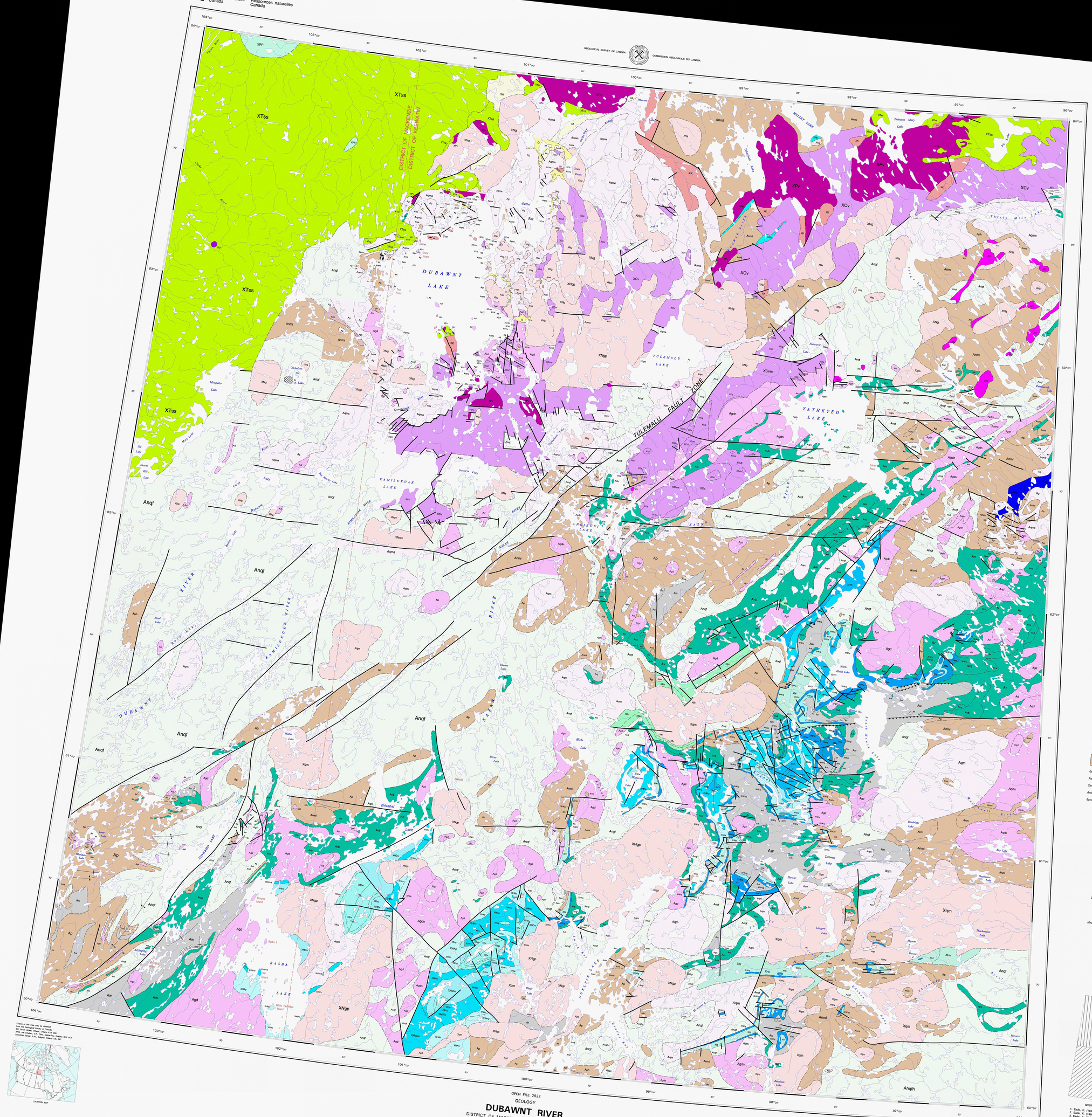
GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA



LEGEND

QUATERNARY

- Q — Sand and gravel

PALEOZOIC

- Oc — Dolomitic limestone (Ordovician)
- Pc — Fossil impact breccia (Age uncertain; predates Oc)

PALEOPROTEROZOIC

DUBAWNT SUPERGROUP

BARREN LAND GROUP, ca. 1.72 Ga

- XU — *KUUNGMI FORMATION*, mafic ultrapotassic flows and tuffs
- XPP — *PINE POINT FORMATION*, dolomitic limestone
- XT — *THELON FORMATION*, (XTcg: conglomerate; XTss: sandstone)

WHARTON GROUP, ca. 1.78 Ga

- XN — *NUELTIN INTRUSIVE SUITE*, equivalent of XPv extrusive rocks. XNgp: granite can be rapakivi-textured; XNgp: porphyritic granite; XNgm: monzonite granite; XNqmc: quartz monzonite to granodiorite; XNgr: syenite
- XNb — *Mafic to intermediate intrusive rocks correlated with XN*
- XP — *PITZ FORMATION*, (XPv: rhyolite and dacite flows; XPs: sandstone and tuffs)

BAKER LAKE GROUP, ca. 1.84 Ga

- XK — *KUNWAK FORMATION*, conglomerate, sandstone, redbeds
- XCI — *MARTELL SHOKKINITE INTRUSIVE SUITE*, equivalent of XC extrusive rocks
- XC — *CHRISTOPHER ISLAND FORMATION*, (YCx: volcaniclastic sandstone and conglomerate; XCsd: fine-grained lacustrine sediments in part volcaniclastic; XCv: ultrapotassic volcanic flows and minor pyroclastics; XCvm: mafic ultrapotassic volcanic flows; XCvb: felsic alkaline flows and pyroclastics; XCvx: ashandlo felsic lamprofile flows; XCp: pyroclastic rocks and subvolcanic breccias)
- XKz — *Pre-volcanic sedimentary rocks, XKz: KAZAN FORMATION,*arkoses; XBsg: *SOUTH CHANNEL FORMATION*, conglomerate; XI: *ANGIKUNI FORMATION*, sandstone and phyllite

AMER GROUP, ca. 2.1 Ga

- XA — *Dominantly orthoquartzite; minor chloritic phyllite*

ENNADAI GROUP, ca. 2.1 Ga

- XE — *Undivided; XEw: greywacke; XEcg: conglomerate*

BATE LAKE SEDIMENTS, ca. 2.1 Ga

- XB — *XBc: dolomite and phyllite; XBfec: calsilicate rocks and pelitic; XBfei: arkose and siltstone; XMBc: paragneiss and migmatite*

HURWITZ GROUP, ca. 2.1 Ga

- XH — *Undivided; XMc: calsilicate rocks and amphibolite; XMb: gabbro sills*
- XHT — *TAVANI FORMATION*, XHTcg: conglomerate; XHTc: arkose and quartzarenite arkist
- XHD — *DUCKER FORMATION*, XHDw: greywacke
- XHW — *WATTERSON FORMATION*, XHWc: dolomite and phyllite; XHWmc: calsilicate rocks and phyllite; XHWva: tuffe volcanic flows; XHWvd: dacite volcanic flows
- XHA — *AMETO FORMATION*, XHAp: slate and shale; XHAc: paragneiss; XHAmg: hybrid gneiss
- XHK — *KINGA FORMATION*, XHKq: orthoquartzite with minor arkose
- XHP — *PADLEI FORMATION*, XHPcg: conglomerate and greywacke

MONTGOMERY LAKE GROUP

- XM — *Shly-siltstone; XMs: quartzite and greywacke, XMcg: conglomerate*

ARCHEAN

SNOW ISLAND INTRUSIVE SUITE, 2.6 Ga

- Ag — *Felsic intrusive Rocks.* Ag: granite Agm: quartz monzonite; Agmz: hyper magnesium quartz monzonite and granite; Agmm: granular quartz monzonite; Ar: rhyolite
- Agd — *Intermediate and mafic intrusive rocks.* Agd: granodiorite; Agdm: granular granodiorite; Ad: diorite; Agd: quartz diorite; Adc: gneissic diorite; Agdv: gneissic quartz diorite; Ab: gabbro and pyroxinite; Aa: anorthosite
- Agn — *Pre-2.6 Ga Gneisses*
- Amm — *Mackenzie Lake sediments, AMr: arkoses; AMmp: paragneiss*
- Anqf — *Undivided quartzofeldspathic gneiss; Anqfc: granulitic gneiss*
- Aw — *Metasedimentary rocks not associated with volcanics.* Arc: greywacke; Ag: granofels; Af: iron formation; Ac: siliconite and limestone with minor silicate; Ar: arkose
- Awv — *Metavolcanic and associated sedimentary rocks.* Avac: interstated mafic Avs: felsic to intermediate volcanic rocks; Avm: mafic volcanic rocks with minor intrusions; Aex: amphibolite; Aub: ultramafic rocks; Avc: volcanogenic sandstone
- Ano — *Mixed gneisses.* Anc: orthogneiss; Anm: melanocratic gneiss; Anmi: migmatitic gneiss; Ap: paragneiss; Apn: granulitic paragneiss

Geological boundary (approximate) . . . . . ~~~~~~~~~~

Fault (defined) . . . . . ——————

Thrust fault (teeth indicate upthrust side) . . . . . ▲▲▲▲▲▲

Anticline (defined) . . . . . ——+——

Synoline (defined) . . . . . ——+——

Geology by T. Peterson (1993), K. Eade (1989, 1985, 1986), and S. Tella (1985), Geological Survey of Canada

Digital map compilation by T. Peterson, Geological Survey of Canada

Digital cartography by R.L. Allard, Geological Survey of Canada

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

Digital base map assembled and modified by the Geological Survey of Canada from digital bases compiled by the Surveys, Mapping and Remote Sensing Branch

Copies of the topographical edition of this map area may be obtained from the Canada Map Office, Natural Resources Canada, Ottawa, Ontario, K1A 0E9

Mean magnetic declination 1994, 9° 59' East, decreasing 14.4'annually. Readings vary from 7° 26' W in the NE corner to 17° 24' E in the NW corner of the map

Copies of this map may be obtained from the Geological Survey of Canada
601 Booth Street, Ottawa, Ontario K1A 0E8
3303-33rd Street, N.W., Calgary, Alberta T2L 2A7

LOCATION MAP

Canada

OPEN FILE 2922

GEOLOGY

DUBAWNT RIVER

DISTRICT OF MACKENZIE - DISTRICT OF KEEWATIN

NORTHWEST TERRITORIES

Scale 1:500 000 - Échelle 1/500 000

Kilometres 10 0 10 20 30 40 Kilometres

Transverse Mercator Projection
CM 100°00', Scale Factor 1
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Projection transverse de Mercator
M.C. 100°00', Facteur d'échelle 1
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SOURCES OF INFORMATION FOR COMPILATION

1. Eade, K. (1985), Open File 727 (West half, Kazan River), 1:500 000
2. Eade, K. (1985), Open File 727 (East half, Nueltin Lake), 1:500 000
3. Tella, S., Eade, K. (1985), Map 1628A (Kamiluakuak Lake), 1:250 000
4. Eade, K. (1986), Map 1629A (Angikuni Lake), 1:250 000
5. Eade, K. (1986), Map 1604A (Tulemalu Lake-Yathkyed Lake), 1:250 000
6. Peterson, T.D. (1992), Open File 2581 (Dubawnt Lake), 1:100 000

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE

OPEN FILE
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GEOLOGICAL SURVEY OF CANADA
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1994: Geology, Dubawnt River, N.W.T.;
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