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GEOLOGICAL SURVEY
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GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

LEGEND

PALAEOZOIC

SILURIAN OR DEVONIAN

25 *Concentrations of fossiliferous limestone rubble*

ORDOVICIAN

24 *Fossiliferous limestone*

PROTEROZOIC

HADRYNIAN (UPPER PROTEROZOIC)

23a/23b *gabbro and diabasic gabbro;* **23b**, *intermediate to basic dyke rocks*

HELIKIAN (MIDDLE PROTEROZOIC)

DUBAWNT GROUP (19–22)

22 *Limestone and concretionary limestone; arenaceous limestone. May be younger in part*

21 *Conglomerate, pebble sandstone; some intercalated sandstone. In part, may be older than 20 or 19*

20 *Mainly porphyritic (quartz and/or feldspar, biotite and/or pyroxene) igneous rocks; probably mainly extrusive, but in part intrusive; some breccia, tuff, agglomerate; minor sub-porphyritic syenitic rocks*

19 *Sandstone and pebbly sandstone, grit, arkose; siltstone and minor breccia; probably includes some undifferentiated conglomerate (18 and/or 21)*

18 *Conglomerate; intercalated gritty sandstone*

17 *Hornblende diorite and minor gabbro, in part intimately intruded into sedimentary schist (3)*

GOULBURN GROUP (15, 16)

16 *Quartzite, cobble quartzite, conglomerate;* **16a**, *quartzite and minor conglomerate, possibly of Dubawnt age*

15 *Quartzite, argillite and slate; some limestone;* **15a**, *with many sills of diorite (17)*

APHEBIAN (LOWER PROTEROZOIC)

13, 14 **13**, *Granite, granodiorite and allied rocks: in large part gneissic and impure, with many bands of partly assimilated schist, gneiss, amphibolite; stratiform granite-gneiss; mylonitic gneisses of granitic composition; some pyroxene granulite. In part probably older than 9 and, possibly, 7;* **13a**, *complex of gneissic granitic rocks, sedimentary and volcanic schists, greenstone, diorite and gabbro, hornblendite.* **14**, *Massive granitic rocks, with few inclusions, within gneissic granitic terrain (13);* **14a**, *coarse-grained, porphyritic, biotite granite (Nueltin Lake Granite);* **14b**, *complex of syenitic to gabbroic rocks (Carey Lake Complex). Ages within these rocks may vary, but K-Ar ages seem mainly metamorphic rather than igneous and to be remarkably alike; ultimate ages may be much older*

12 *Gneiss, schist, amphibolite, and granulite derived mainly from sedimentary and volcanic rocks of Archean and/or Lower Proterozoic (Aphebian) age: some impure quartzite and greywacke; commonly with some granitic material;* **12a**, *gneisses probably derived from Yellowknife sedimentary rocks (3);* **12b**, *gneisses intruded by much granitic material and/or granitized (mixed gneisses)*

GREAT SLAVE GROUP (6)

6 *Dolomite, dolomite breccia. May be younger*

NONACHO GROUP (5)

5 *Impure quartzite, greywacke, minor phyllite and schist, conglomerate*

HURWITZ GROUP (8–11)

10 *Greywacke, and impure quartzite, slate, phyllite, conglomerate, dolomite and limestone (D); quartz-mica schist; minor hornfels*

9 *Mainly white quartzite; some impure quartzite and gritty sandstone, minor intercalated pebbly conglomerate and siliceous iron-formation; includes some undifferentiated 8 and 10*

8 *Greywacke, argillite and slate, phyllite; derived quartz-mica schist*

11 *Undifferentiated Hurwitz sedimentary rocks (8-10). Q., quartzite (9); D., dolomite and limestone (10)*

ARCHAEAN

4 *Massive granitic rocks, in large part free of inclusions;* **4a**, *muscovite granite;* **4b**, *biotite granite and quartz monzonite;* **4c**, *hornblende granodiorite and quartz diorite*

YELLOWKNIFE GROUP (1–3)

3 *Impure quartzite, greywacke; minor slate; nodular quartz-mica schist, minor phyllite;* **3a**, *relatively massive impure quartzite*

2 *Porphyritic (quartz and or feldspar) felsite, rhyolite, agglomerate*

1 *Intermediate to basic volcanic rocks (greenstones) and derived amphibole schist and gneiss;* **1a**, *greenstone and gneisses of unknown age*

7 *Intermediate to basic volcanic rocks (greenstones) and derived amphibole schist and gneiss; in part includes much schistose greywacke (lower Thelon belt); some rhyolite, tuff, agglomerate; minor quartz-mica schist and magnetite iron-formation (Southern Keewatin); undifferentiated basic intrusions. May be younger in part (Hurwitz)*

A *Diorite and gabbro of the Ennadai-Rankin belt*

B *Diorite and gabbro in granitic and gneissic terrains*

C *Anorthosite*

D *Biotite–hornblende diorite*

E *Ultrabasic and allied rocks*

F *Basic syenites, diorites, gabbros*

Geological boundary (defined, approximate)
Bedding, (horizontal, inclined, vertical, overturned, dip unknown)
Bedding, tops unknown (inclined)
Schistosity, gneissosity (inclined, vertical, dip unknown)
Fault (approximate, assumed)
Shear zone
Hematite zones
Joint (sub-horizontal)
Anticlinal axis (approximate)
Synclinal axis (approximate)
Location reference number and age, determined by K-Ar method, in millions of years — 16-1688
Mineral prospect; mineral occurrence — Cu

MINERALS

Copper	Cu	*Nickel*	Ni
Gold	Au	*Pyrite*	py
Iron oxide (gossan)	Fe	*Pyrrhotite*	po
Lead	Pb		

Geology by C. S. Lord, G. M. Wright, H. A. Quinn, K. E. Eade and H. A. Lee, 1952; G. M. Wright, C. H. Smith, J. G. Fyles, J. A. Fraser and R. C. Shields, 1954; G. M. Wright, J. W. Hoadley, J. A. Fraser, K. E. Eade and B. G. Craig, 1955

To accompany G.S.C. Memoir 350 by G.M. Wright

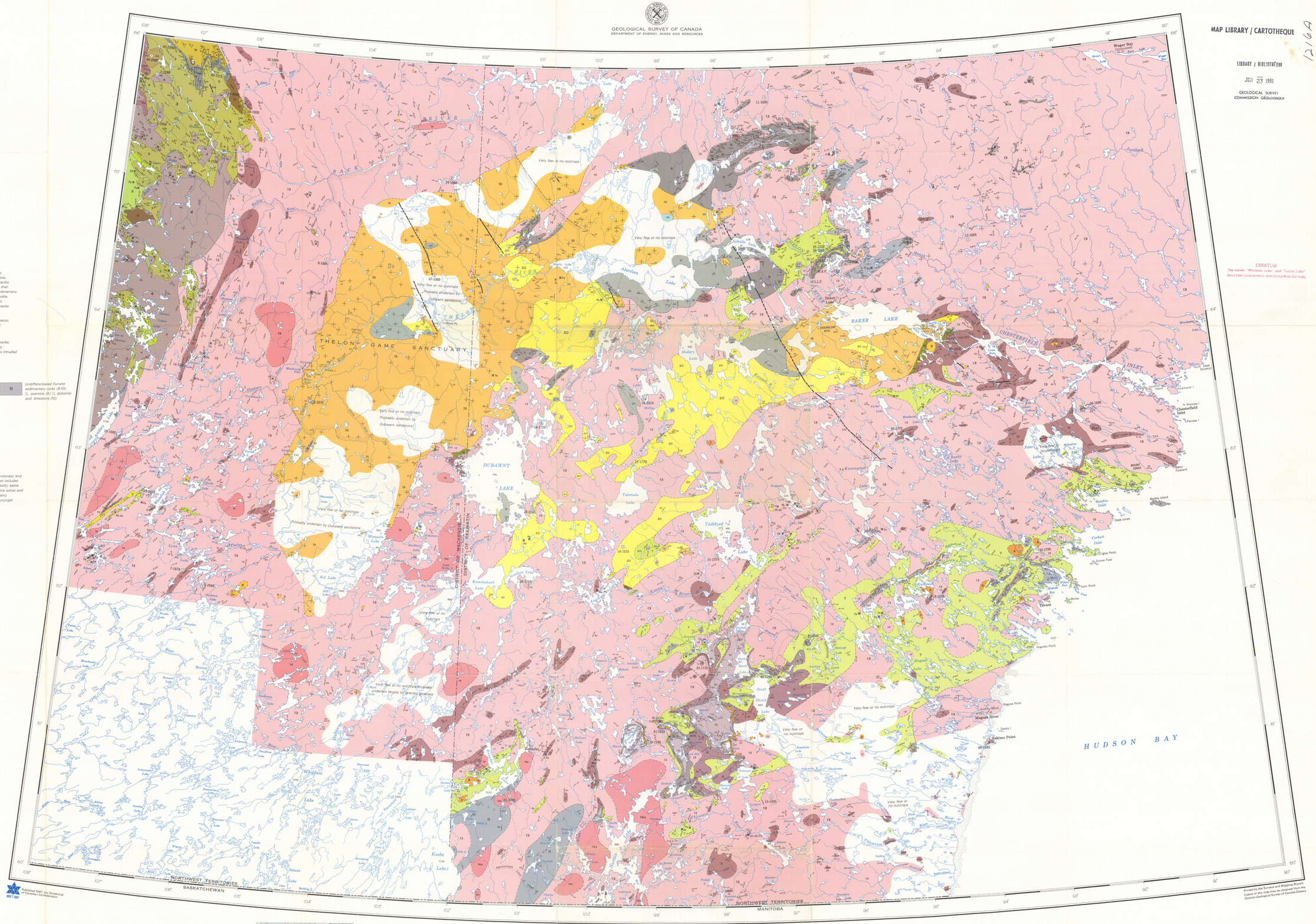
Geological compilation by C. S. Lord, 1953 and G.M. Wright, 1955, 1956 and 1962

Geological cartography by the Geological Survey of Canada, 1966

Settlement
Provincial boundary
District boundary
Game Sanctuary boundary (revised March 4, 1956)
Falls
Tidal flats or shoal
Marsh
Height in feet above mean sea-level — + 1325

Base-map cartography by the Geological Survey of Canada, 1966 from maps published at the scale of 1 inch to 8 miles and 1:500,000 by the Surveys and Mapping Branch in 1950, 1954 and 1958

Mean magnetic declination 12°00' East, increasing 10' annually. Readings vary from 08°00' West in the SE corner to 31°45' East in the NW corner of the map-area



ERRATUM
The names "Whitehills Lake" and "Lutsin Lake" have been inadvertently omitted on this map.

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Printed by the Surveys and Mapping Branch
Copies of this map may be obtained from the Director, Geological Survey of Canada, Ottawa

INDEX MAP

MAP 1216A
GEOLOGY
SOUTHEASTERN BARREN GROUNDS
DISTRICT OF KEEWATIN — DISTRICT OF MACKENZIE

Scale 1:1,000,000
1 inch to 15.78 miles

Miles 20 0 20 40 60 Miles
Kilometres 25 0 25 50 75 100 Kilometres

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE

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