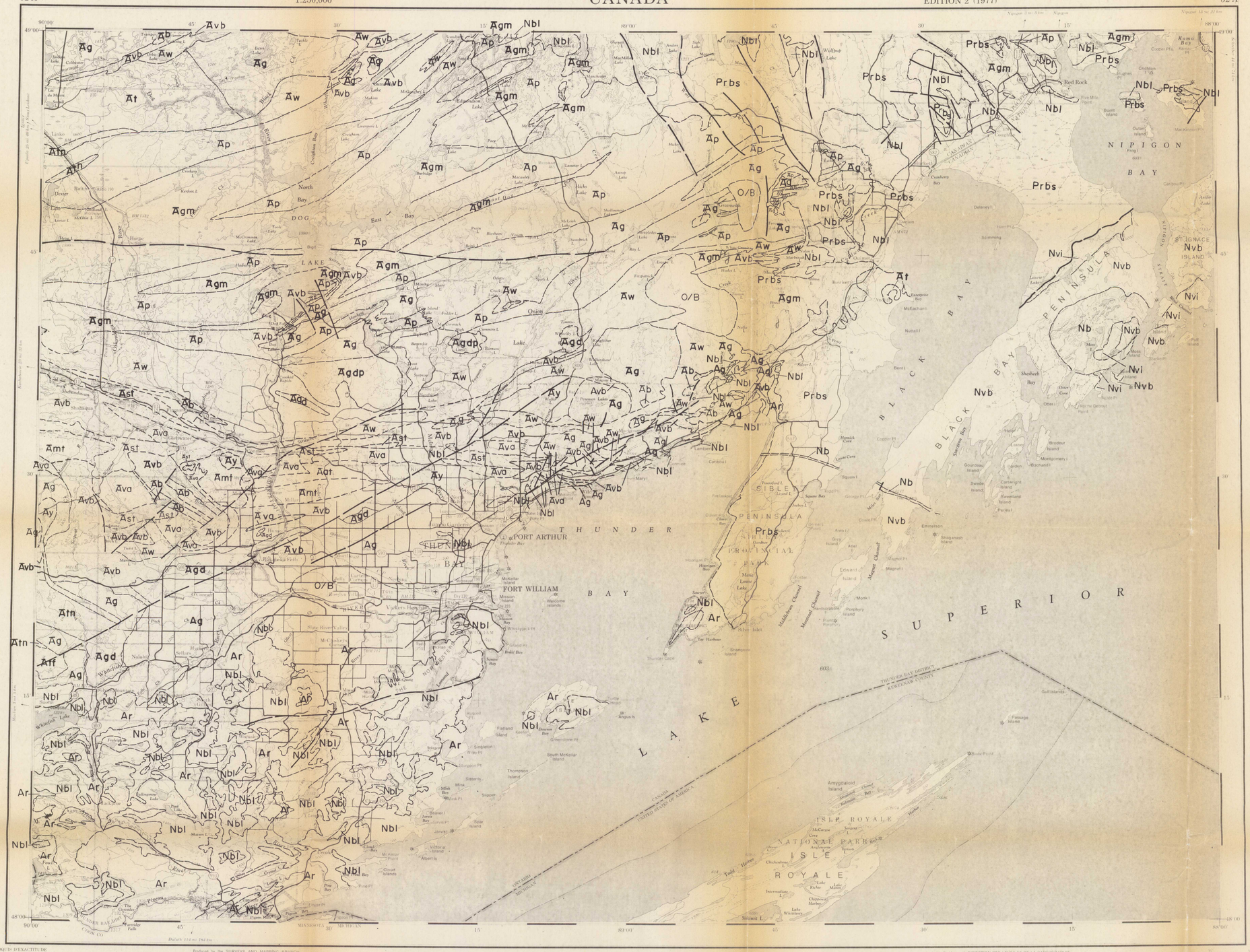
GEOLOGICAL SURVEY OF CANADA COMMISSION GEOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTERE DE L'ENERGIE, DES MINES ET DES RESSOURCES

52 A 1:250,000 **CANADA** EDITION 2 (1977) 52 A



LEGEND, THUNDER BAY (52A)

Neo-Helikian

- Nbl: Logan diabase: gabbro sills and dykes
- Nb: Mafic, minor ultramafic intrusions: gabbro, anorthositic gabbro, anorthosite, pyroxenite, peridotite
- Nvb: Olser Group mafic volcanics: basalt, minor conglomerate, sandstone, diorite, granophyre
- Nvi: Olser Group intermediate volcanics: porphyritic dacite, rhyolite; minor conglomerate, sandstone

Paleo-Helikian

- Prbs: Sibley Group: "red-beds": shale, chert

Aphebian

- Ar: Rove Formation: argillite, shale, greywacke, minor volcanic rocks
- Ag: Gunflint Formation: conglomerate, ferruginous carbonate, chert, taconite, hematite iron formation, jasper, argillite

Archean

- Ag: biotite ± hornblende granite, quartz monzonite
- Agm: muscovite granite, quartz monzonite (may contain garnet, cordierite)
- Agdp: porphyritic (K-feldspar) granodiorite
- Agd: granodiorite, quartz monzonite
- Atn: tonalite to granodiorite gneiss
- Atf: foliated tonalite to granodiorite
- At: tonalite to granodiorite
- Ay: syenite, monzonite, diorite; may include nepheline syenite
- Ap: paragneiss: biotite-quartz-plagioclase schist with granitic leucosome
- Aw: wacke, argillite, siltstone
- Ava: felsic to intermediate volcanic rocks: dacite, rhyolite - may include some andesite and hypabyssal intrusions ("Keewatin"-type volcanics in Wawa, Wabigoon belts)
- Avb: mafic to intermediate volcanic rocks: basalt, andesite, minor peridotitic komatiite; may include some mafic intrusions ("Keewatin"-type volcanics in Wawa, Wabigoon belts)

Reference to this map should be made in the following form:
Percival, J.A., 1987, Geological compilation of Thunder Bay (52A), Geological Survey of Canada Open File Map 1479

Compilation Sources, Thunder Bay (52A)

Carter, M.W., 1984: Goldie and Horne Townships, District of Thunder Bay, in Summary of Field Work, 1984 Ontario Geological Survey Miscellaneous Paper 119, p. 41-45.

Carter, M.W., 1985: Forbes and Conrmee Townships, District of Thunder Bay, in Summary of Field Work, 1985, Ontario Geological Survey Miscellaneous Paper 126, p. 60-66.

Carter, M.W., 1986: Blackwell and Laurie Townships, District of Thunder Bay, in Summary of Field Work, 1986, Ontario Geological Survey Miscellaneous Paper 132, p. 85-89.

Percival, J.A., 1983: Preliminary results of geological synthesis in the western Superior Province, in Current Research, Part A, Geological Survey of Canada Paper 83-1A, p. 125-131.

Pye, E.G. and Fenwick, K.G., 1964: Atikokan-Lakehead Sheet; Ontario Department of Mines Map 2065, scale: 1:253,440.

Scott, J., 1985: MacGregor Township, District of Thunder Bay, in Summary of Field Work, 1985, Ontario Geological Survey Miscellaneous Paper 126, p. 67-70.

Thurston, P.C., 1985: Atikokan-Lakehead compilation project, in Summary of Field Work, 1985, Ontario Geological Survey Miscellaneous Paper 126, p. 54-59.

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GEOLOGICAL SURVEY OF CANADA
COMMISSION GEOLOGIQUE DU CANADA
OTTAWA
1987

RELIABILITY DIAGRAM - CROQUIS D'EXACTITUDE

A Large scale mapping photogrammetric, 1972
A Cartographie à grande échelle photogrammétrie, 1972

Canada

Produced by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES.
Updated from topographic sources using U.S.A. information current as of 1957 supplied by the UNITED STATES ARMY MAP SERVICE, CORPS OF ENGINEERS.

Magnetic declination 1975 varies from 1.2° easterly at centre of west edge to 0.4° westerly at centre of east edge. Mean annual change 0.4' decreasing.

Interim corrections 1977

Roads:	dual highway	more than 2 lanes
hard surface, all weather	2 lanes	less than 2 lanes
hard surface, all weather	2 lanes or more	less than 2 lanes
loose or stabilized surface, all weather		
loose surface, dry weather		
cart track		
trail, cut line or portage		

FOR COMPLETE REFERENCE SEE REVERSE SIDE

THUNDER BAY
CANADA-UNITED STATES OF AMERICA

Scale 1:250,000 Échelle

Miles 5 0 5 10 15 20 Miles
Kilometres 5 0 5 10 15 20 25 30 Kilometres

CONTOUR INTERVAL 100 FEET
Elevations in Feet Above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection

Copies may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, or your nearest map dealer.

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ÉQUIDISTANCE DES COURBES 100 PIEDS
Élévations en pieds au dessus du niveau moyen de la mer
Système de référence géodésique nord-américain 1927
Projection transverse de Mercator

Des cartes sont en vente au Bureau des Cartes du Canada, ministère de l'Énergie, des Mines et des Ressources, Ottawa, ou chez le vendeur le plus près.

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Étudié par la DIRECTION DES LEVES ET DE LA CARTOGRAPHIE, MINISTERE DE L'ENERGIE, DES MINES ET DES RESSOURCES.
Mise à jour à partir des cartes à grande échelle. Renseignements à jour 1957 fournis par le SERVICE CARTOGRAPHIQUE DE L'ARMÉE, CORPS DU GÉNIE des ÉTATS-UNIS.

La déclinaison magnétique pour 1975 varie de 1.2° E. à l'ouest du centre de la moitié Ouest à 0.4° O. à l'est du centre de la moitié Est. Variation moyenne annuelle 0.4' décroissante.

Corrections Provisoires 1977

Routes:	2 chaussées séparées	plus de 2 voies
pavée, toute saison	2 voies	moins de 2 voies
pavée, toute saison	2 voies ou plus	moins de 2 voies
gravier agglomeré, toute saison		
de gravier période sèche		
de terre		
sentier, ponceau ou portage		

POUR UNE LISTE COMPLÈTE DES SIGNES, VOIR AU VERSO

Index to adjoining Maps of the National Topographic System
Tableau d'assemblage des feuilles voisines du système national de référence cartographique

THUNDER BAY
52 A (1977)
EDITION 2

This map has been produced from a scanned version of the original map
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