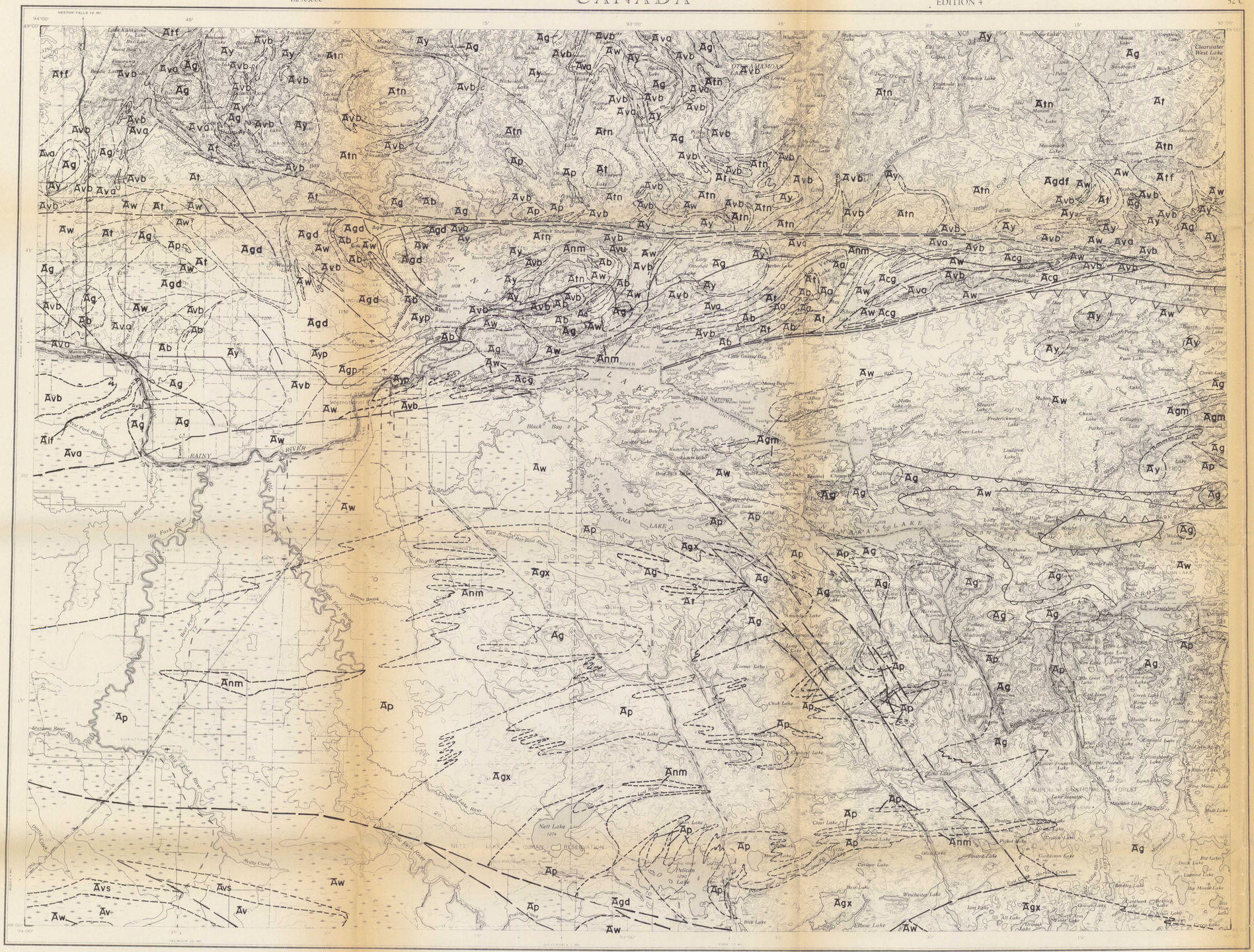
GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

52 C 1:250,000 CANADA EDITION 4 52 C



LEGEND, INTERNATIONAL FALLS (52C)

Archean

- Āgp: porphyritic (K-feldspar) granite, quartz monzonite
- Āgx: xenolithic granite, quartz monzonite
- Āgm: muscovite granite, quartz monzonite (may contain garnet, cordierite)
- Āg: biotite ± hornblende granite, quartz monzonite
- Āyp: porphyritic syenite, monzonite, diorite
- Āy: syenite, monzonite, diorite; may include nepheline syenite
- Āgdf: foliated granodiorite
- Āgd: granodiorite, quartz monzonite
- Ātf: foliated tonalite to granodiorite
- Ātn: tonalite to granodiorite gneiss
- Āt: tonalite to granodiorite
- Āa: anorthosite and related rocks
- Ācg: "Timiskaming"-type conglomerate, arkose, arenite, wacke
- Āp: paragneiss: biotite-quartz-plagioclase schist with granitic leucosome
- Āw: wacke, argillite, siltstone
- Āb: mafic intrusive rocks: gabbro, diorite - may include alkaline gabbro
- Āu: ultramafic intrusive rocks: peridotite, pyroxenite, serpentinite
- Ānm: mafic gneiss, amphibolite
- Āif: iron formation
- Āvs: undivided metasedimentary and metavolcanic rocks
- Āv: undivided metavolcanic rocks
- Āva: felsic to intermediate volcanic rocks: dacite, rhyolite - may include some andesite and hypabyssal intrusions ("Keewatin"-type volcanics in Wawa, Wabigoon belts)
- Āvb: mafic to intermediate volcanic rocks: basalt, andesite, minor peridotitic komatiite; may include some mafic intrusions ("Keewatin"-type volcanics in Wawa, Wabigoon belts)
- Āvu: ultramafic to mafic volcanic rocks; komatiite, basaltic komatiite; may include mafic, ultramafic intrusions

Mineral isograds

- Biotite
- Staurolite
- Sillimanite

Reference to this map should be made in the following form:
Percival, J.A., 1987, Geological compilation of International Falls (52C), Geological Survey of Canada Open File Map 1481

Compilation Sources, International Falls (52C)

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Percival, J.A., Stern, R.A., and Digel, M.R., 1985, Regional geological synthesis of Western Superior Province, Ontario, in Current Research, Part A, Geological Survey of Canada Paper 85-1A, p. 385-397.

Poulsen, K.H, 1984, The geological setting of mineralization in the Mine Centre - Fort Frances area, District of Rainy River Ontario Geological Survey Open File Report 5512, 126 p.

Southwick, D.L. and Ojakangas, R.W., 1979, Geologic Map of Minnesota, International Falls Sheet, Minnesota Geological Survey, scale: 1:250,000.

Wood, J., Dekker, J., Jansen, J.G., Keay, J.P. and Panagapko, D., 1980, Mine Centre area, Ontario Geological Survey Maps P. 2201, P. 2202, scale: 1:15,840.

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1481
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
OTTAWA
1987

INTERNATIONAL FALLS

CANADA - UNITED STATES

Scale 1:250,000

Miles 5 0 5 10 15 20 Miles

Kilometres 5 0 5 10 15 20 25 30 Kilometres

INTERNATIONAL FALLS

Canada

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