

LEGEND

NEO-HELIKIAN

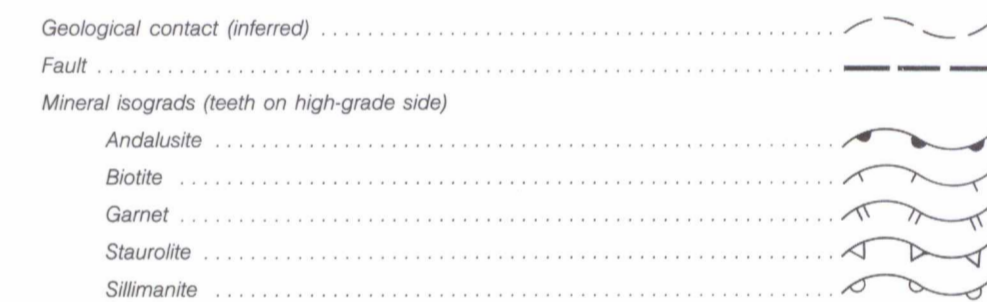
- Nbl Logan diabase: gabbro sills and dykes
Duluth Complex (Nps-Ndf)
Ndf Granite, granodiorite, monzonite, syenite
Ndb Anorthositic gabbro
Ndba Troctolite and anorthositic troctolite
Ndbra Mixed troctolitic and anorthositic rocks
Ndbca Gabbroic cumulate rocks
Ndbca Anorthositic cumulate rocks
Ndbga Undivided gabbro, minor intermediate rocks
Nm NORTH SHORE GROUP: mafic volcanic rocks
Nps Puckwugie sandstone: quartzite

APHEBIAN

- ROVE FORMATION: argillite, shale, greywacke, minor volcanic rocks
GUNFLINT FORMATION: conglomerate, ferruginous carbonate, chert, taconite, hematite iron-formation, jasper, argillite

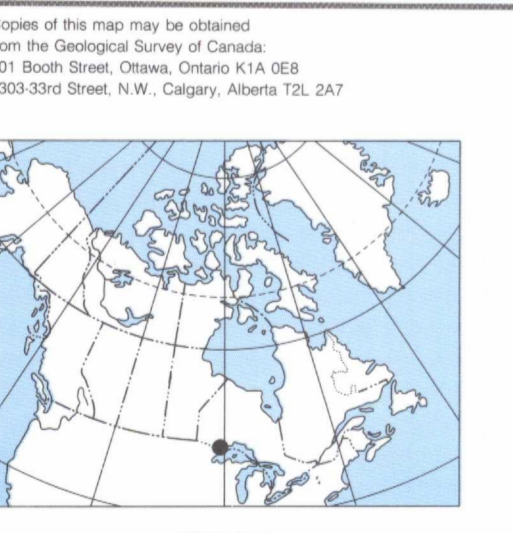
ARCHEAN

- Asi "Timiskaming"-type sediments: conglomerate, wacke, arkose, mudstone
Asm "Timiskaming"-type mafic volcanics: basalt, andesite, minor komatiite
Acg "Timiskaming"-type conglomerate, arkose, arenite, wacke
As STEEP ROCK GROUP: conglomerate, arkose, stromatolitic carbonate, Fe-Mn-pelotool, Mg-rich ultramafic tuff (ashrock)
Ay Syenite, monzonite, diorite; may include nepheline syenite
Agx Xenolithic granite, quartz monzonite
Ago Porphyritic (K-feldspar) granite, quartz monzonite
Agi Foliated granite, quartz monzonite
Agm Muscovite granite, quartz monzonite (may contain garnet, cordierite)
Ag Biotite ± hornblende granite, quartz monzonite
Agi Granodiorite, quartz monzonite
Afi Foliated tonalite to granodiorite
Atn Tonalite to granodiorite gneiss
At Tonalite to granodiorite
Ap Paragneiss: biotite-quartz-plagioclase schist with granitic leucosome
Am Mafic gneiss, amphibolite
Ab Mafic intrusive rocks: gabbro, diorite - may include alkaline gabbro
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 komatiites; may include some mafic intrusions ("Keewatin"-type volcanics in Wawa, Wabigoon belts)



REFERENCES

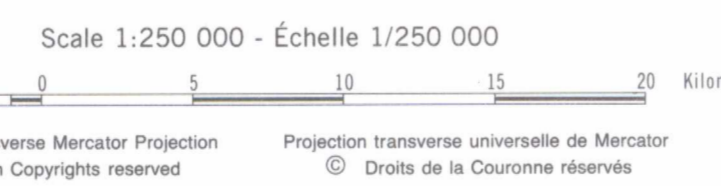
Fenwick, K.G. 1976: Geology of the Finlayson Lake area, District of Rainy River, Ontario Division of Mines Geological Report 145, 86 p.
Furnerton, S.L. and Kresz, D.U. 1981: Righteye Lake, Ontario Geological Survey Map 2464, scale: 1:31 680
Green, J.C. 1962: Geological map of Minnesota, Two Harbours Sheet, Minnesota Geological Survey, scale 1:250 000
Inrnie, T.N. 1963: Geology of western Lac des Milles Lacs area, District of Thunder Bay, Ontario Department of Mines, Geological Report 12, 24 p.
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
Percival, J.A. and Stern, R.A. 1984: Geological synthesis in the western Superior Province, Ontario, in Current Research, Part A, Geological Survey of Canada, Paper 84-1A, p. 397-408
Percival, J.A., Stern, R.A. and Digel 1985: Regional geological synthesis of western Superior Province, Ontario, in Current Research, Part A, Geological Survey of Canada Paper 85-1A, p. 385-397
Pirie, J. 1978: Geology of Crooked Pine Lake area, District of Rainy River, Ontario Geological Survey Report 179, 72 p.
Pye, E.G. and Fenwick, K.G. 1984: Atiskwan-Lakehead Sheet, Ontario Department of Mines Map 2065, scale: 1:253 440
Sage, R.P., Wright, W., Chamois, P., and Higgins, C. 1979: Proton Lake alkalic complex, District of Rainy River, Ontario Geological Survey Map P. 2219, scale: 1:15 840
Stone, D., Kaminski, C., Jackson, M., and Shanks, W. 1986: Geology, Atiskwan area, northwestern Ontario, Geological Survey of Canada Open File 1221; Map scale: 1:50 000
Thurston, P.C. 1984: Atiskwan-Lakehead compilation project, in Summary of Field Work, 1984, Ontario Geological Survey Miscellaneous Paper 119, p. 38-40
1985: Atiskwan-Lakehead compilation project, in Summary of Field Work, 1985, Ontario Geological Survey Miscellaneous Paper 126, p. 54-59
Woodard, H. 1986: Geology of the Basswood Lake - Crooked Lake area, unpublished map, Beloit College, Beloit, Wisconsin, scale: 1:24 000



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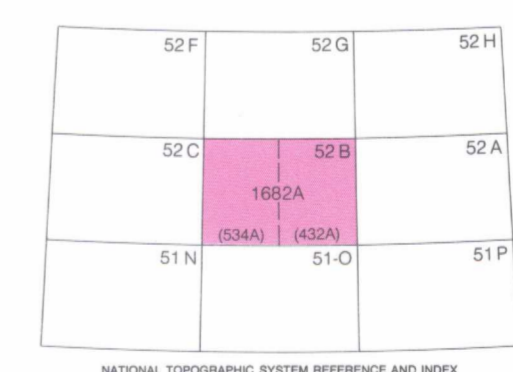
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MAP 1682A
GEOLOGY
QUETICO
ONTARIO-UNITED STATES



Base map at the same scale published by the Surveys and Mapping Branch in 1983
Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, Ontario, K1A 0E9
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Elevations in feet above mean sea level

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