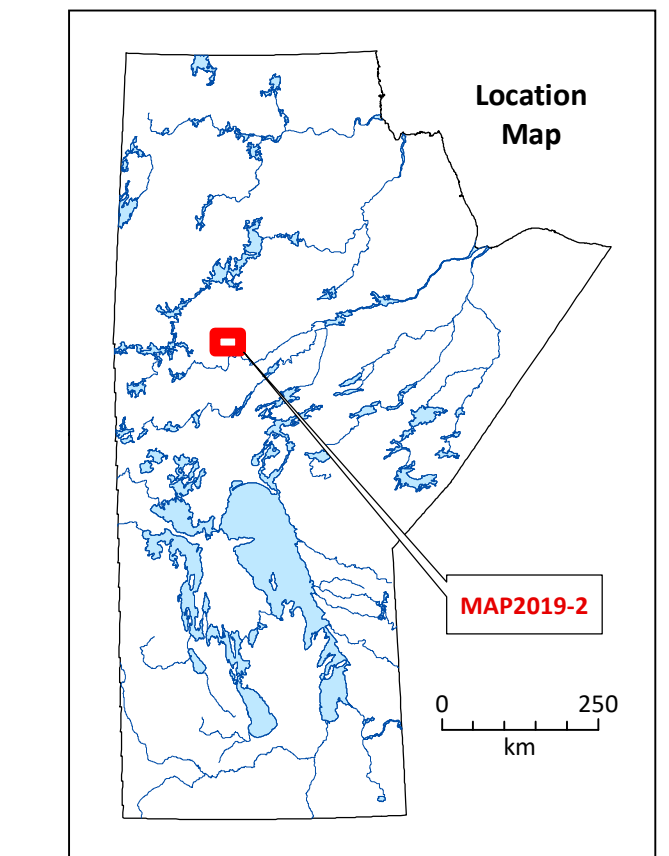


Geology of the Notigi-Footprint lakes area, Manitoba (parts of NTS 63010, 11, 14, 15)

Compiled by L.A. Murphy and H.V. Zwanig (2019)
Geology by L.A. Murphy and H.V. Zwanig (2006-2009), after J.A. Percival, J.B. Whalen and T.G. Frohlinger
Cartography and GIS processing by L.E. Chackowsky, M. Timcoe and B.K. Lenton

Suggested reference:
Murphy, L.A. and Zwanig, H.V. 2019: Geology of the Notigi-Footprint lakes area, Manitoba (parts of NTS 63010, 11, 14, 15); Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, Geoscientific Map MAP2019-2, scale 1:50 000.



Published by:
Manitoba Growth, Enterprise and Trade,
Manitoba Geological Survey, 2019
Copies of this map can be obtained from:
Manitoba Growth, Enterprise and Trade
Manitoba Geological Survey, Publication Sales
360-1395 Ellice Avenue
Winnipeg, MB R3G 3P2 Canada
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Legend

Paleoproterozoic

Late intrusive rocks (felsic to mafic)

- Llg** Leucogranitesillimanite, granodiorite, pegmatite
- Lgb** Granite-tonalite, mainly leucocratic with biotitegarnetscordierite, local pegmatite
- Lhg** Hornblende and biotite granite-granodiorite
- Lqd** Diorite, quartz diorite (blacktrout diorite)
- Lmu** Gabbro-pyroxenite (1.79 Ga)

Sickle Group metasedimentary rocks (undivided)

- K** Sillimanite-bearing gneiss/meta-arkose
- Ksb** Sillimanite-cordierite-bearing gneiss
- Kse** Sillimanite-cordierite-bearing gneiss
- Kb** Biotite gneiss (meta-arenite)
- Kh** Hornblende-biotite meta-arenite/gneiss

Burntwood Group (metagreywacke-mudstone turbidite, generally graphitic)

- B** Greywacke-mudstone-derived garnet-biotitesillimanite gneiss
- Bg** Garnet-biotitesillimanite migmatite (metatexite, 10-50% leucosome)
- Bm** Biotite-gneiss (metatexite, 50-90% leucosome)
- Bma** Biotite-gneiss, sillimanite, orthopyroxene, spinel
- Bd** Garnet-biotite migmatite (diatexite, 50-90% leucosome)
- Bi** Sulphidic silicate meta-iron formation, Sur-rich semipelite/chert

Intrusive rocks (age unknown)

- bx** Biotite granite to granodiorite/arenite of amphibole, pyroxene, magnetite, K-feldspar porphyroclasts
- gb** Metagabbro, amphibolite, gabbro-porphphy

Intrusive rocks (known pre-Burntwood, pre-Sickle age)

- en** Enderbite; minor quartz diorite-gabbro, mafic porphyry (Osik enderbite, 1.89 Ga)
- qm** Porphyritic quartz monzonite, syenite-granite (Footprint Lake plutonic suite, 1.88 Ga)
- tn** Biotite tonalite, minor diorite-gabbro (Osik tonalite, 1.87 Ga)
- mg** Monzogranite (Notigi granite, 1.85 Ga; granodiorite, Lgg, 1.81 Ga)
- gn** Biotite granite-granodiorite (Rat granite, 1.84 Ga)

Granville Complex

- Gs** Metagreywacke, mudstone, gritstone
- Gi** Meta-iron formation, mainly sulphide facies, local silicate facies and calcilicite
- Gc** Calcareous to siliceous psammite (sandstone-siltstone)
- Gg** Metagabbro, amphibolite
- Ghb** Layered amphibolite (Hatchet Lake basalt)
- Guc** Calcilicite rock, carbonate alteration
- Gtb** Hornblende-dioapsite amphibolite, layeredcalcilicite or massive; intermediate to felsic gneiss

Wuskwatom Lake sequence

- W** Undivided

Symbols

Geological structures

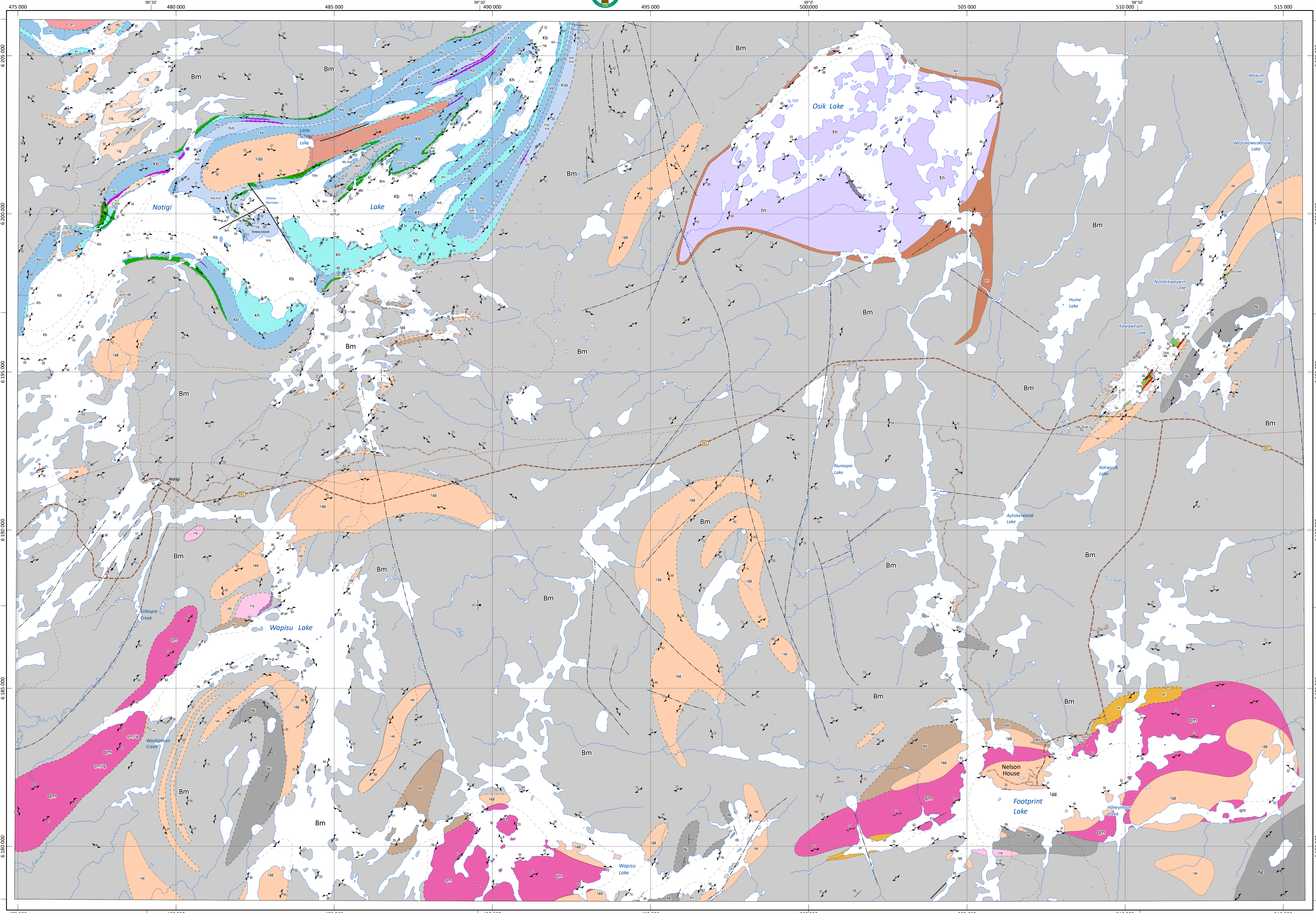
- Bedding: tops unknown, tops known, overturned
- Foliation: generally S₁-S₂, S₃
- Gneissosity: generally S₁-S₂, S₃
- Lineation: type unknown, rodding, mineral lineation
- Intersection lineation: generation unknown, L₁, L₂
- Fold axis, generation unknown: symmetry unknown, symmetric, S-shaped, Z-shaped
- Fold axis, F₁: symmetry unknown, S-shaped, Z-shaped
- Fold axis, F₂: symmetry unknown, S-shaped, Z-shaped
- Fold axial plane: generation unknown, F₁, F₂
- Dike: mafic, felsic

Geological boundaries

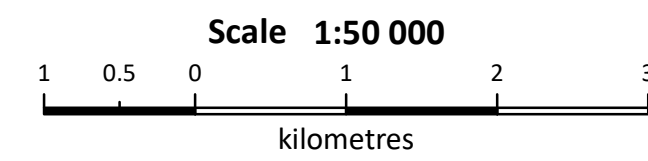
- Contact: defined
- Contact: approximate
- Contact: assumed
- Contact: gradational
- Contact: underwater
- Early fault, assumed
- Late fault, approximate
- Photo linear

Infrastructure

- Road, all-weather
- Trail
- Transmission line



UTM Zone 14, NAD83



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