

Geology and structure of the Notigi Lake area, Manitoba (parts of NTS 63014, 64B3)

Compiled by L.A. Murphy and H.V. Zwanig (2019)

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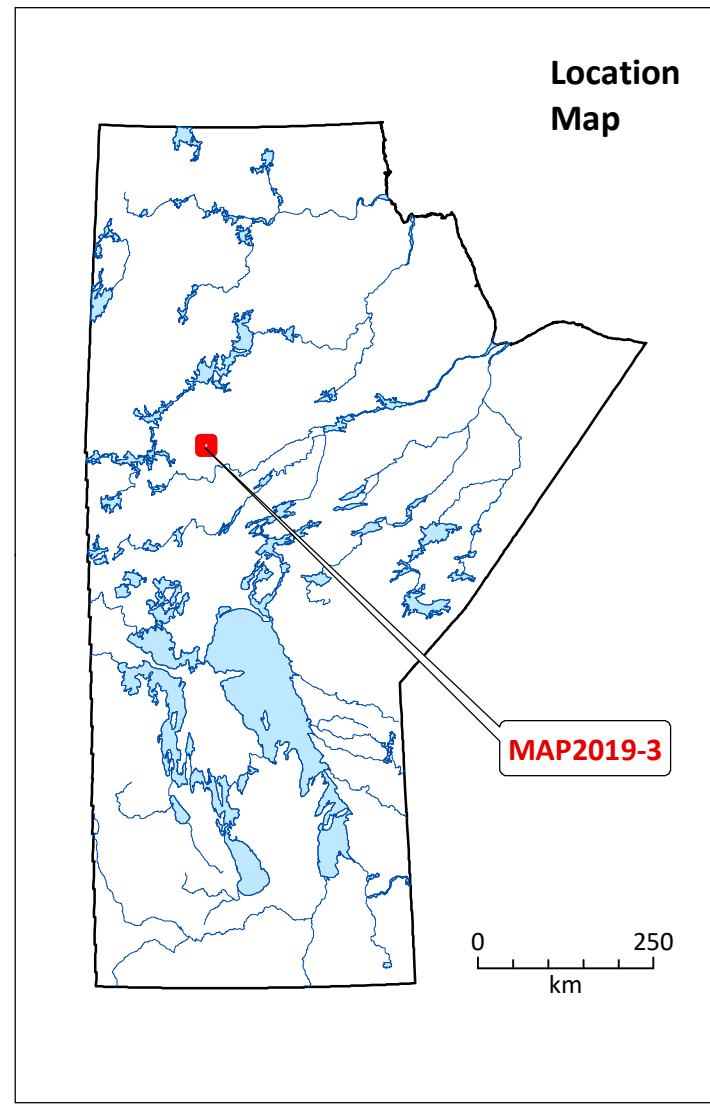
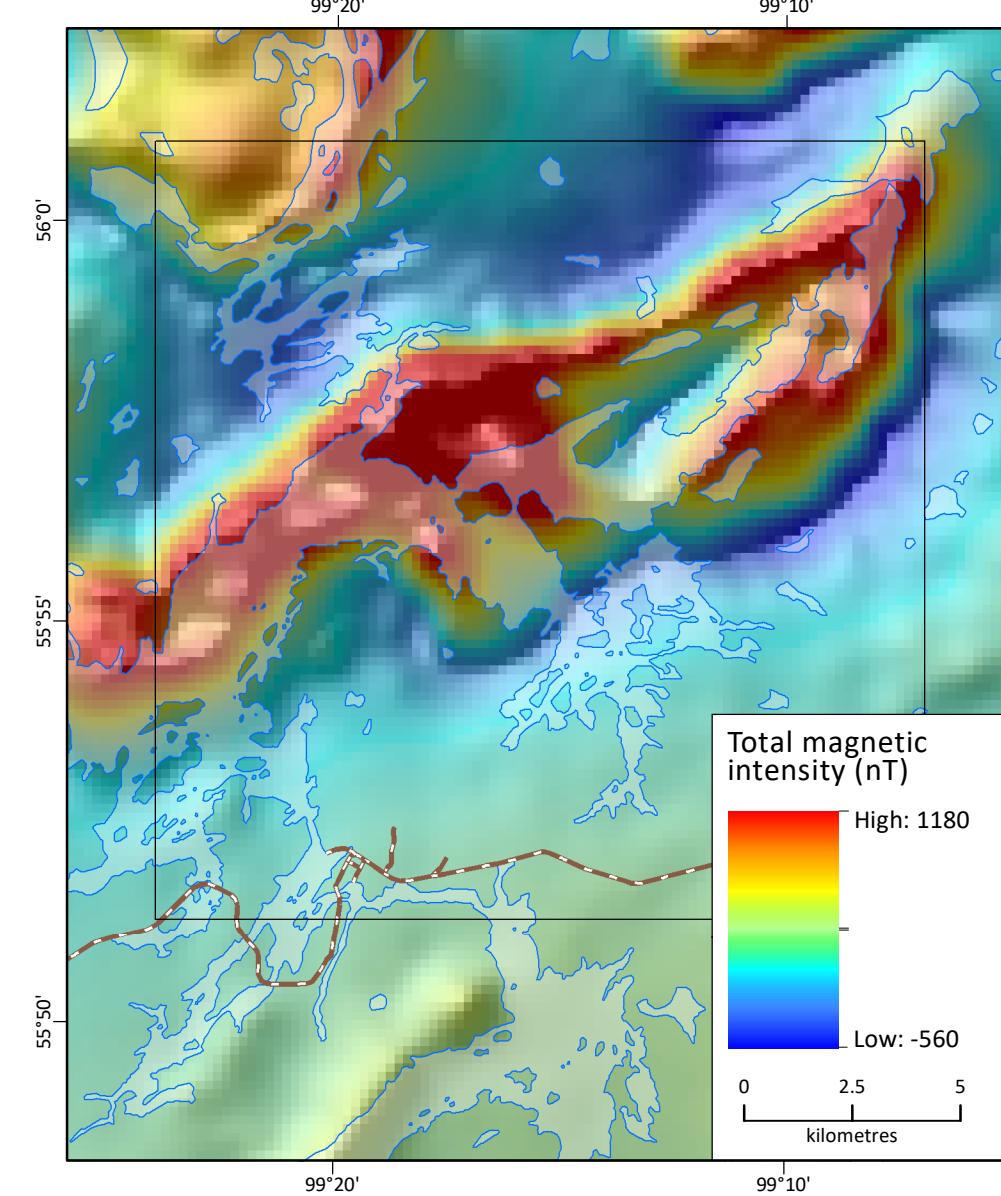
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Murphy, L.A. and Zwanig, H.V. 2019: Geology and structure of the Notigi Lake area, Manitoba (parts of NTS 63014, 64B3); in Report of Activities 2019, Manitoba Geological Survey, Geoscientific Map MAP2019-3, scale 1:25 000.

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Residual Total Field



Legend

Paleoproterozoic

- Lig Leucogranites/sillimanite, granodiorite, pegmatite
- Lgg Granitoidite, mainly leucocratic with biotite-garnet-cordierite, local pegmatite
- Lhg Hornblende and biotite granite-granodiorite
- Lgd Diorite, quartz diorite (Blackout diorite)
- K Sickle Group metasedimentary rocks (undivided)
- Ksb Sillimanite-bearing gneiss/meta-arkose
- Kse Sillimanite-cordierite-bearing gneiss
- Kb Biotite gneiss (meta-arenite)
- Kh Hornblende biotite meta-arenite/gneiss
- g Burntwood Group (metagreywacke-mudstone turbidite, generally graphitic)
- Bm Garnet-biotite-sillimanite migmatite (metateixe, 10-50% leucosome)
- Bgd Garnet-biotite migmatite (diatexite, 50-90% leucosome)
- Bl Sulphidic silicate meta-iron formation, Su-rich semipelite/chert

- Intrusive rocks (known pre-Burntwood, pre-Sickle age)
- mg monzogranite (Notigi granite, 1.86 Ga, granodiorite, 1.81 Ga)
- gn Biotite granite-granodiorite (Rat granite, 1.84 Ga)

- Granville Complex
- G3 Metagabbro, amphibolite
- G4 Calcilicite rock, carbonate alteration
- G5 Hornblende-dioptase amphibolite, layered scapolite or massive; intermediate to felsic gneiss

Note: lighter shade of colour indicates area of no outcrop

Geological boundaries

- Contact: defined
- Contact: approximate
- Contact: assumed
- Contact: gradational
- Contact: underwater
- Fault: early, assumed
- Fault: late, approximate
- Photo linear

Structure symbols

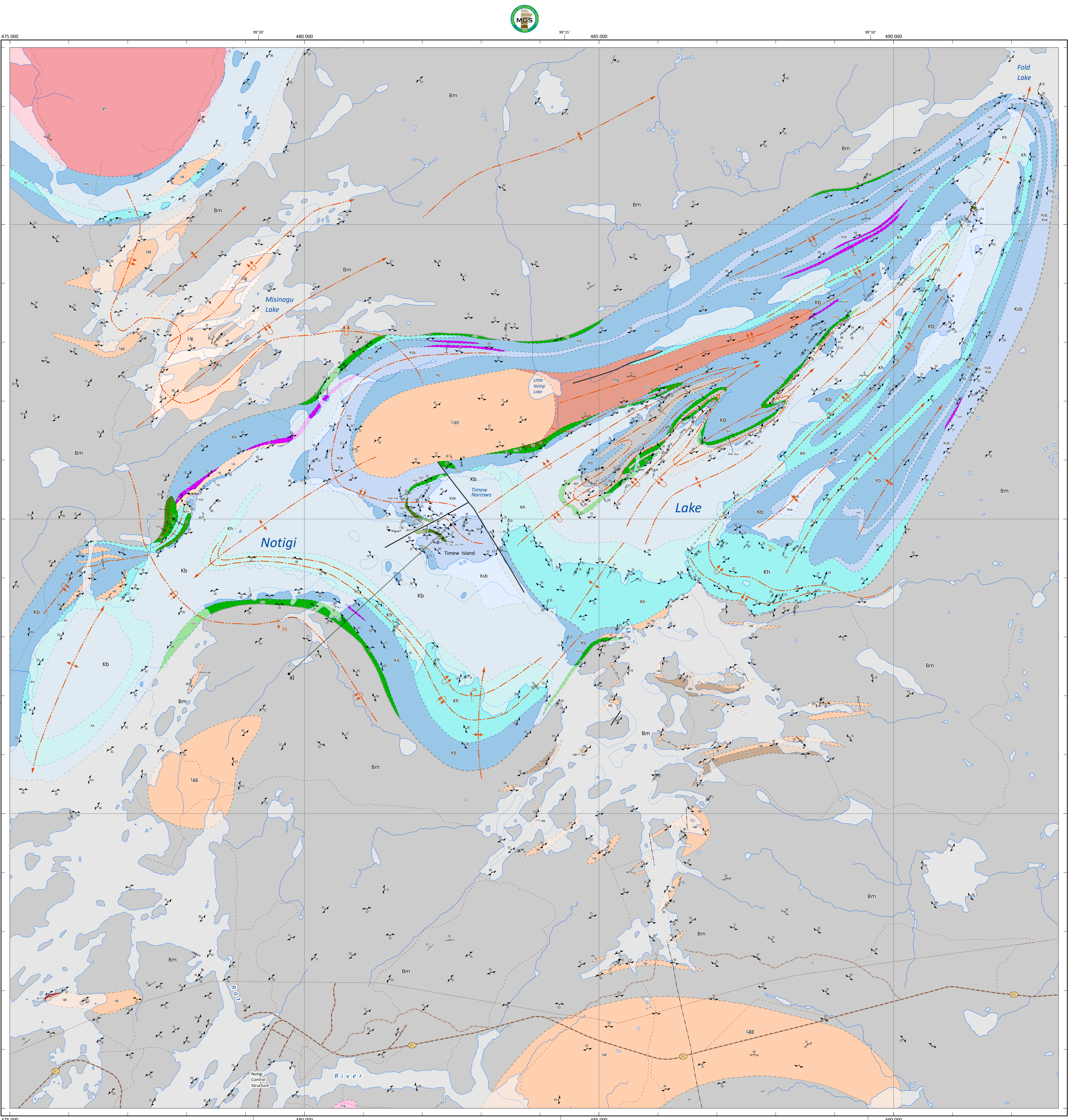
- Bedding: tops unknown, tops known, overturned
- Igneous layering, tops unknown
- Foliation: generally S₁-S₂, S₃, S₄
- Gneissosity: generally S₂-S₃, S₄, S₅
- Lineation, including mineral, stretching, and rodding: generation unknown, L₁, L₂, L₃
- Rodding, mineral lineation
- Intersection lineation: generation unknown, L₁, L₂
- Jointing
- Fault: sense unknown, sinistral, reverse
- Shear zone, sinistral
- Fold axis, generation unknown: symmetry unknown, S-shaped, Z-shaped
- Fold axis, F₁: symmetry unknown, Z-shaped
- Fold axis, F₂: symmetry unknown, S-shaped, Z-shaped
- Fold axis, F₃: symmetry unknown, S-shaped, Z-shaped
- Fold axis, F₄: symmetry unknown, S-shaped
- Fold axial plane: generation unknown, F₁, F₂, F₃, F₄
- Dike: undivided, felsic, mafic
- Local major plunge
- Antiform: upright, overturned, inverted
- Synform: upright, overturned, inverted
- Fold axial trace, generation 2a
- Fold axial trace, generation 2b
- Fold axial trace, generation 3
- Stratigraphic section

Infrastructure

- Transmission line
- Road: loose surface, dry weather
- Road: loose surface, all-weather
- Trail

Hydrography

- Shoreline: modern day
- Shoreline: pre-flooding



UTM Zone 14, NAD83

Scale 1:25 000

