



**Preliminary Map PMAP2016-6**  
**Bedrock geology of central Southern Indian Lake, Manitoba (parts of NTS 64G1, 2, 7, 8)**

**Legend**

- 10** Granitic pegmatite: mostly K-feldspar dominant; locally contains apatite, garnet, and magnetite
- 9** Syenogranite to syenite: pink, massive, equigranular
- 8** K-feldspar-megacrystic granite: pink, biotite ±hornblende-bearing
- 7** K-feldspar-phyric monzogranite: pink, locally strongly foliated
- 6** Biotite-hornblende granodiorite to tonalite: contains cognate xenoliths
- 5** Quartz diorite: foliated; locally contains garnet
- 4** Gabbro and leucogabbro
- 3** Mafic volcanic rocks: massive; local epidote alteration and gossanous patches
- 2a** Psammite: grey; massive to crudely bedded, locally with sulphide facies iron formation
- 2b** Pelite: foliated; contains garnet and sillimanite, locally with sulphide facies iron formation
- 2c** Polymictic clast-supported conglomerate
- 2d** Calcsilicate
- 1** Siliceous mudstone: rhythmically banded; magnetite-bearing

**Symbols**

- Planar structures**
- Bedding, tops unknown
  - Crenulation cleavage, generation unknown
  - Shear band, generation unknown
  - Shear, generation unknown
  - Dike
  - Fold axial plane, generation unknown
  - Foliation, generation unknown
  - Gneissosity, generation unknown
- Linear structures**
- Fold axis, generation unknown: asymmetric unknown, symmetric, Z-asymmetric
  - L-fabric, generation unknown
  - Mineral lineation
  - Rodding
- Contact: approximate, underwater**
- Limit of mapping
  - Sulphide facies iron formation occurrence
- Mineral occurrences**
- Cp** - Chalcopyrite
  - Grt** - Garnet
  - Mgt** - Magnetite
  - Py** - Pyrite
  - Ttn** - Titanite
- Alteration**
- Carbonate
  - Potassic
  - Chloritic
  - Epidote

**References**

- Coyle, M. and Kiss, F. 2008: Partridge Breast Lake aeromagnetic survey, Manitoba; Geological Survey of Canada, Open Files 5922 to 5929 and Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Open Files OF2008-15 to OF2008-30, scale 1:50 000.
- Kremer, P.D. 2008: Bedrock geology of the Pukatawagan Bay area, Southern Indian Lake, Manitoba (part of NTS 64G2); Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2008-3, scale 1:25 000.
- Kremer, P.D., Corkery, M.T. and Lenton, P.G. 2009: Bedrock geology of the Partridge Breast Lake belt, Manitoba (parts of NTS 64G1, 2, 8, 64H4, 5); Manitoba Innovation, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2009-2, scale 1:50 000.
- Martins, T. 2015: Bedrock geology of the northern basin of Southern Indian Lake, north-central Manitoba (parts of NTS 64G7, 8, 9, 10); Manitoba Mineral Resources, Manitoba Geological Survey, Preliminary Map PMAP2015-4, scale 1:50 000.

**Geology by T. Martins (2016)**

- Cartography by M. Timcoe
- Recommended reference:  
 Martins, T. 2016: Bedrock geology of central Southern Indian Lake, Manitoba (parts of NTS 64G1, 2, 7, 8); Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, Preliminary Map PMAP2016-6, scale 1:50 000.

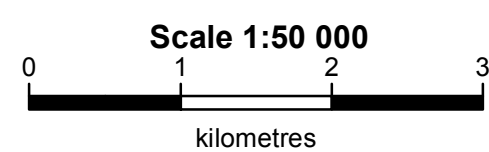
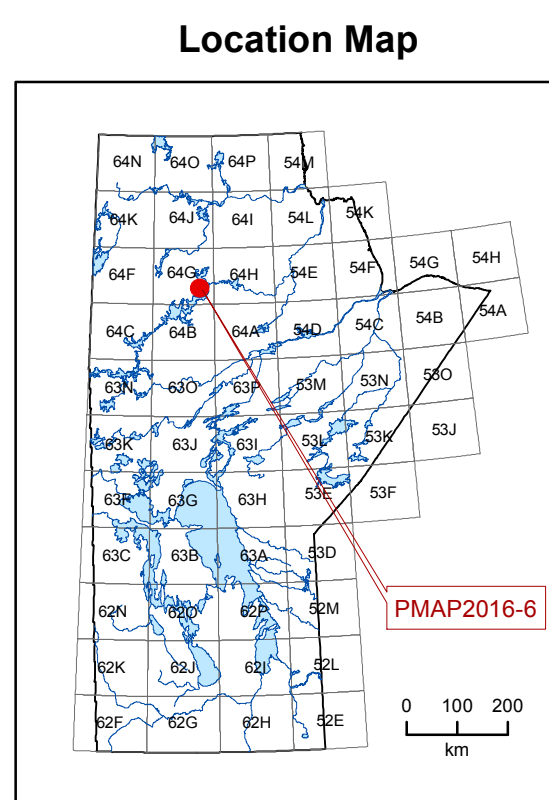
Some contacts were mapped using residual total field aeromagnetic data (Coyle et al., 2008).

This map is a provisional summary of work carried out during the summer field season and is produced directly from the geologist's manuscript. It is not to be regarded as a final interpretation of the geology of the area.

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