



# Geology of the Wuskwatim–Threepoint lakes area, Manitoba (parts of NTS 63010, 11)

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

Geology by H.V. Zwanig, J.A. Percival, L.A. Murphy and M.L. Growdon (2006), after G. Kendrick, T.G. Frohlinger and D.A. Baldwin (1979)

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### Suggested reference:

Zwanig, H.V., Percival, J.A., Murphy, L.A. and Growdon, M.L.: 2019: Geology of the Wuskwatim–Threepoint lakes area, Manitoba (parts of NTS 63010, 11), Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, Geoscientific Map MAP2019-5, scale 1:50 000.

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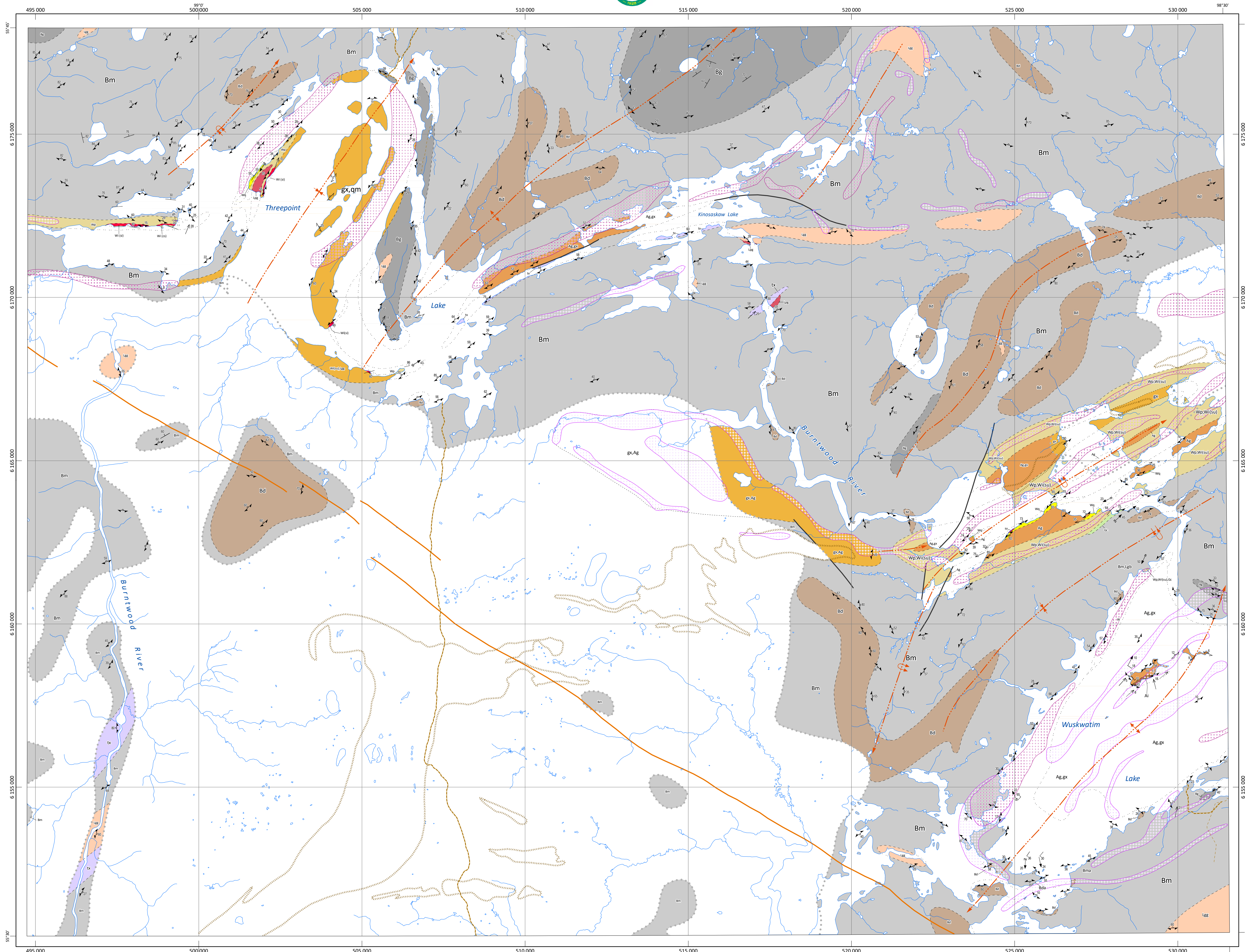
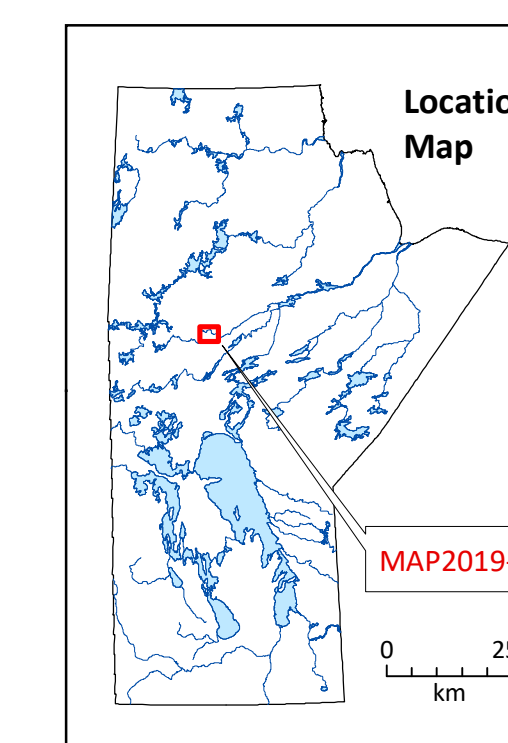
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### Legend

- Mesoproterozoic**
  - Mackenzie dike, assumed from aeromagnetic pattern
- Paleoproterozoic**
  - Late intrusive rocks (felsic to mafic)**
    - Ldg: Pegmatite, apatite, granite
    - Lgb: Granite-tonalite, mainly leucocratic with biotite/garnet/cordierite, local pegmatite
    - Lgb: Metagabbro, amphibolite
    - B: Burntwood Group (metagreywacke–mudstone turbidite, generally graphitic)
    - Bg: Greywacke–mudstone-derived garnet–biotite/sillimanite gneiss
    - Bm: Garnet–biotite/sillimanite migmatite (metatexite, 10–50% leucosome)
    - Bma: Bmscordierite, sillimanite, orthopyroxene, spinel
    - Bd: Garnet–biotite migmatite (diatexite, 50–90% leucosome)
    - Bda: Bds cordierite, sillimanite, orthopyroxene, spinel, ~70% leucosome
  - Intrusive rocks (age unknown)**
    - gx: Biotite granite to granodiorite/tonalite of amphibole, pyroxene, magnetite, K-feldspar porphyroclasts
    - tx: Tonalite, local agmatite with granodiorite matrix
    - gb: Metagabbro, amphibolite, gabbro-porphyr
  - Intrusive rocks (known pre-Burntwood, pre-Sickle age)**
    - qm: Porphyritic quartz monzonite, syenite–granite (Footprint Lake plutonic suite, 1.88 Ga)
  - Granville Complex**
    - Gc: Calcareous to siliceous psammite (sandstone–siltstone)
  - Wuskwatim Lake sequence**
    - W: Undivided
    - Wp: Semipelite to pelite, migmatitic garnet–biotite gneiss, meta-iron-formation
    - Wl: Meta-iron-formation, sulphide facies (su); silicate facies (sl); calcisclate (cs)
    - Wq: Arkosic quartzite, local pelite layers
  - Archean**
    - Ag: Felsic granulite gneiss (tonalite–granite) and common mafic boudins or dikes (1.2–2.35 Ga)
    - Al: Intermediate–mafic granulite gneiss (quartz diorite–gabbro) with hornblende, diopside, orthopyroxene, garnet, magnetite
- Geological symbols**
  - Contact: approximate
  - Contact: assumed
  - Contact: underwater
  - Fault: defined or approximate
  - Trace of fold axial plane (F-F)
  - Limit of overburden
- Magnetic signature**
  - High
  - Medium
- Structure symbols**
  - Bedding: tops unknown
  - Foliation: generation unknown
  - Gneissosity, generally S<sub>1</sub>S<sub>2</sub>
  - Lineation, generation unknown
  - Fold axis, generation unknown: symmetry unknown, symmetric, S-shaped, Z-shaped
  - Fold axial plane, generation unknown
  - Antiform: upright, overturned
  - Synform: upright, overturned
- Topographic features**
  - Esker
  - Road, loose surface, all-weather
  - Trail

