



Geology of the Kiskitto Lake west (63J/2 west half), Gladish Lake (63J/3) and Talbot Lake east (63J/4 east half) area

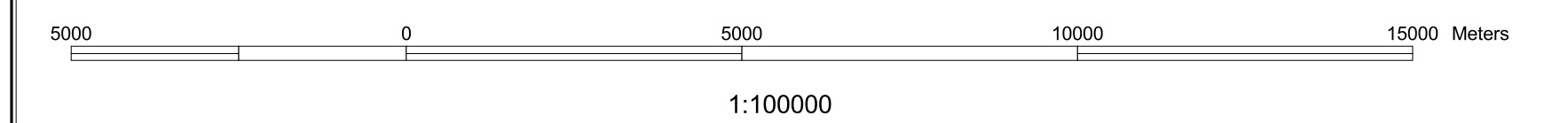
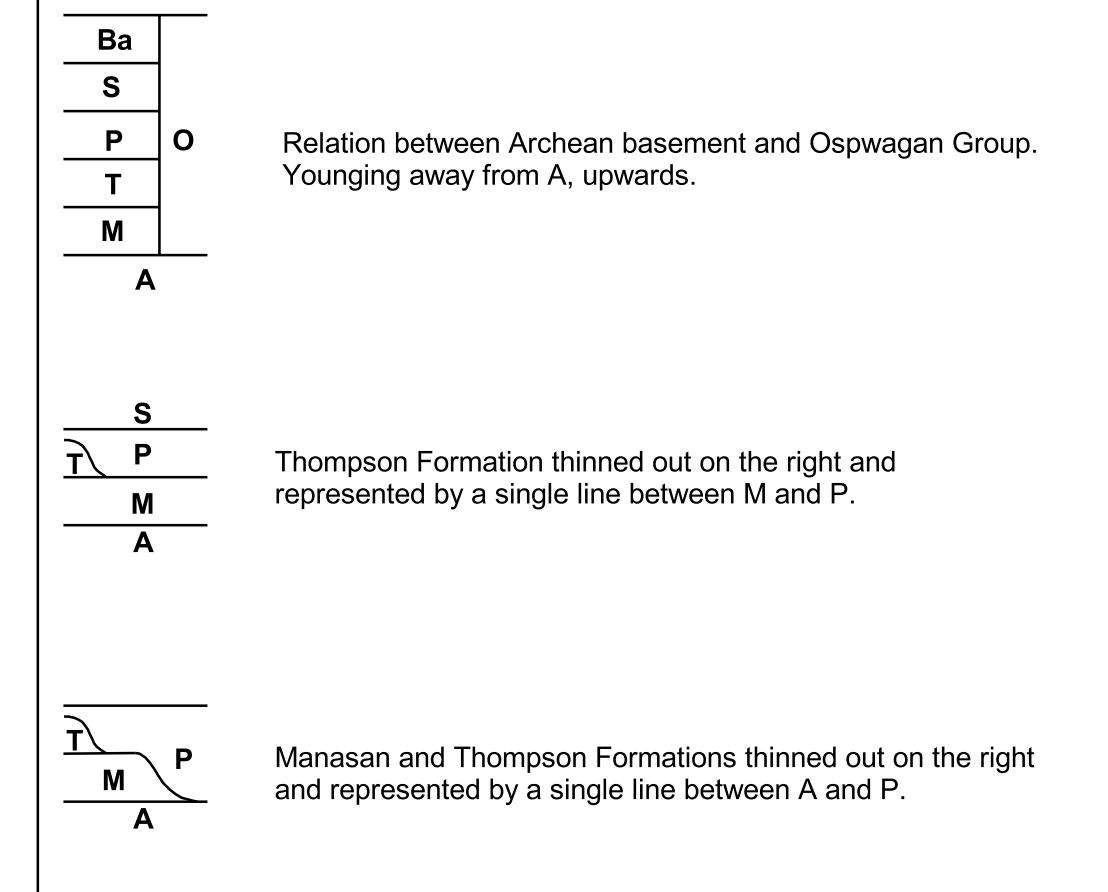
LEGEND

- INTRUSIVE ROCKS, ORTHOGNEISS**
- mb** Metadiabase or metabasite dykes. In O or A, usually belong to Molson dyke swarm
 - pg** Pegmatite
 - g** Granite, granitoid rocks
 - bg** Biotite granite
 - qs** Quartz syenite
 - gb** Metagabbro, usually associated with um or occurring as subvolcanic sills
 - um** Danite (serpentinized), metaperidotite, metapyroxenite, serpentinite, derived ultramafic schist; usually as sills in Osopwagan Group sequence
- G** GRASS RIVER GROUP, undivided; mainly magnetite-bearing paragneiss; locally hornblende-, biotite-, garnet- or sillimanite-bearing; laminated, thinly layered, in places crossbedded, pebbly; migmatitized; minor intercalations of felsic metavolcanic rocks
- B** BURNWOOD GROUP, undivided; greywacke-mudstone metaturbidite, garnet- and graphite-enriched, locally cordierite- and sillimanite-bearing; includes derived migmatite
- W** WINNIPEGOSIS BELT ASSEMBLAGE, undivided; ultramafic to mafic volcanic flows, massive, areol, locally siltstone- or claystone; spiniferous, aphanitic to ophiolite texture common, pillowed flows, hyaloclastic; also includes sub-greenschist facies thinly layered siliceous siltstone and calcareous siltstone
- O** OSOPWAGAN GROUP SUPRACRUSTAL ROCKS, undivided; a sequence of clastic, chemical and metamorphic rocks belonging to M, T, P, S Formations and Ba assemblage. IFM Formation is not on the map, then areas of undivided Osopwagan group are defined solely on the basis of geophysical signature and rocks of the Osopwagan Group might not be present. In addition, the sequence might be much narrower than shown by the contacts. In some instances, Osopwagan Group might not be present and the magnetic anomalies are reflection of increased magnetic content in basement only.
- Ba** Bah Lake assemblage, undivided; metabasite flows, pillowed or massive, local breccia; derived amphibolite; metagabbro - diabase subvolcanic sills; picritic sills; minor interflow chert; iron formation, volcanogenic sediment.
- pp** Pictite, massive or porphyroblastic
- S** Setting Formation, undivided; feldspathic quartzite and metapelite interlayered in varying proportions in a metadiabase sequence
- P** Pipe Formation, undivided; sequence of sulphidic, silicate and oxide facies iron formations, sulphidic; chert; metapelite; minor dolomite marble, calc-silicate; near the top sandstone - pelitic metarhyolite
- dm** Dolomite marble intercalation enclosed in silicate facies iron formation of P3
- ox** Iron formation, oxide facies, found only in P3
- si** Iron formation, silicate facies, stratigraphic position unknown unless determined by its host P1 or P3
- su** Iron formation, sulphide facies, stratigraphic position unknown unless determined by its host P1 or P2
- if** Iron formation, facies unspecified, stratigraphic position unknown
- T** Thompson Formation, undivided; marble or marble, layered, varied in composition and texture; chlorite - phlogopite - diopside marble; coarse grained
- M** Manasan Formation, undivided; basal clastic rocks; metaconglomerate, sandstone, minor shale, graded beds, fining upwards; semipelite schist, rhythmically layered, calc-silicate layer near the top; pegmatite segregations in high grade metamorphic derivatives
- A** ARCHEAN BASEMENT MICHAMATITE - GNEISS, undivided, retrogressed, leucocratic to chloritic in composition, host to distinct bodies of orthogneiss (1 to 4), ages uncertain
- 6** Biotite granite orthogneiss
- AP** ARCHEAN PIKWITONEI GRANULITE BASEMENT, undivided, isoclastic to melanocratic migmatite and gneiss, orthopyroxene-bearing

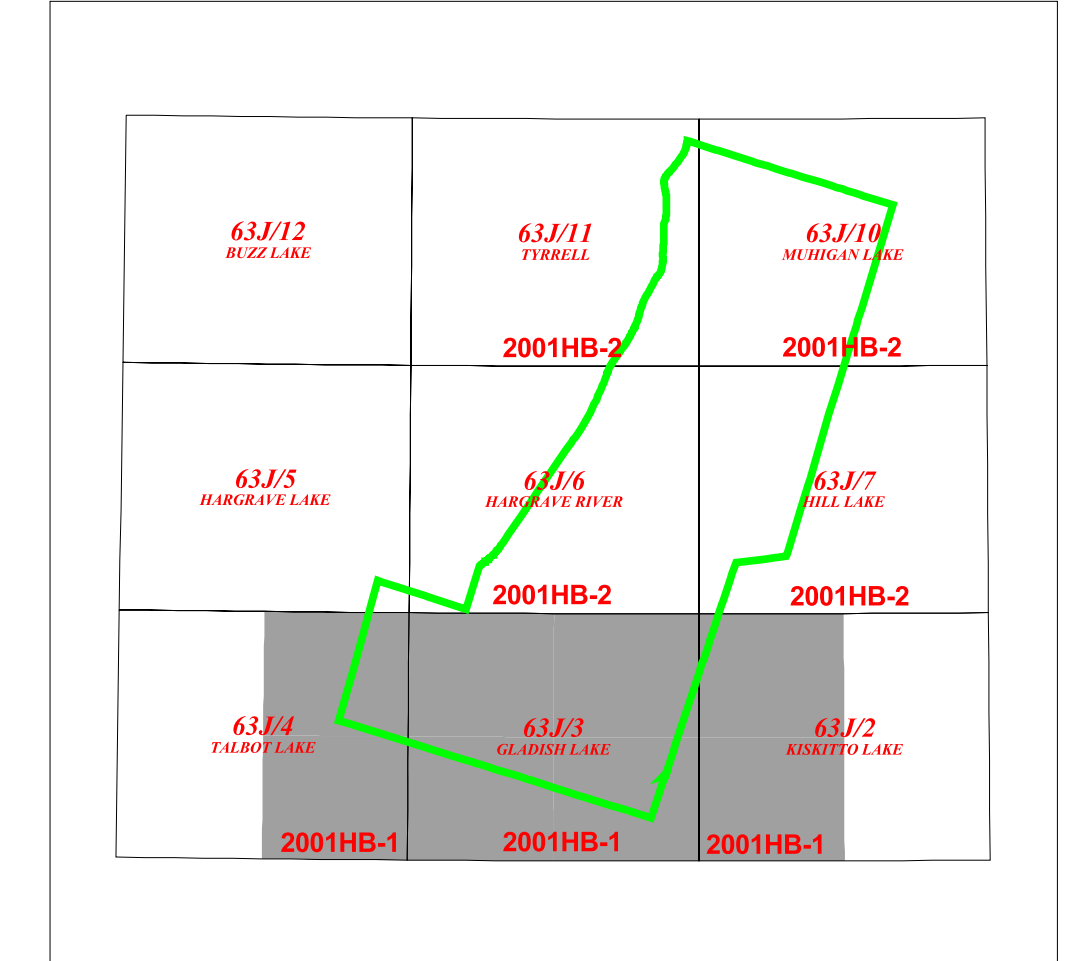
SYMBOLS

- Fault
- Structural trend derived from the vertical gradient of a magnetic anomaly
- Contact

Schematic illustrations of the relationships of Archean gneisses, Manasan, Thompson, Pipe and Setting Formations.

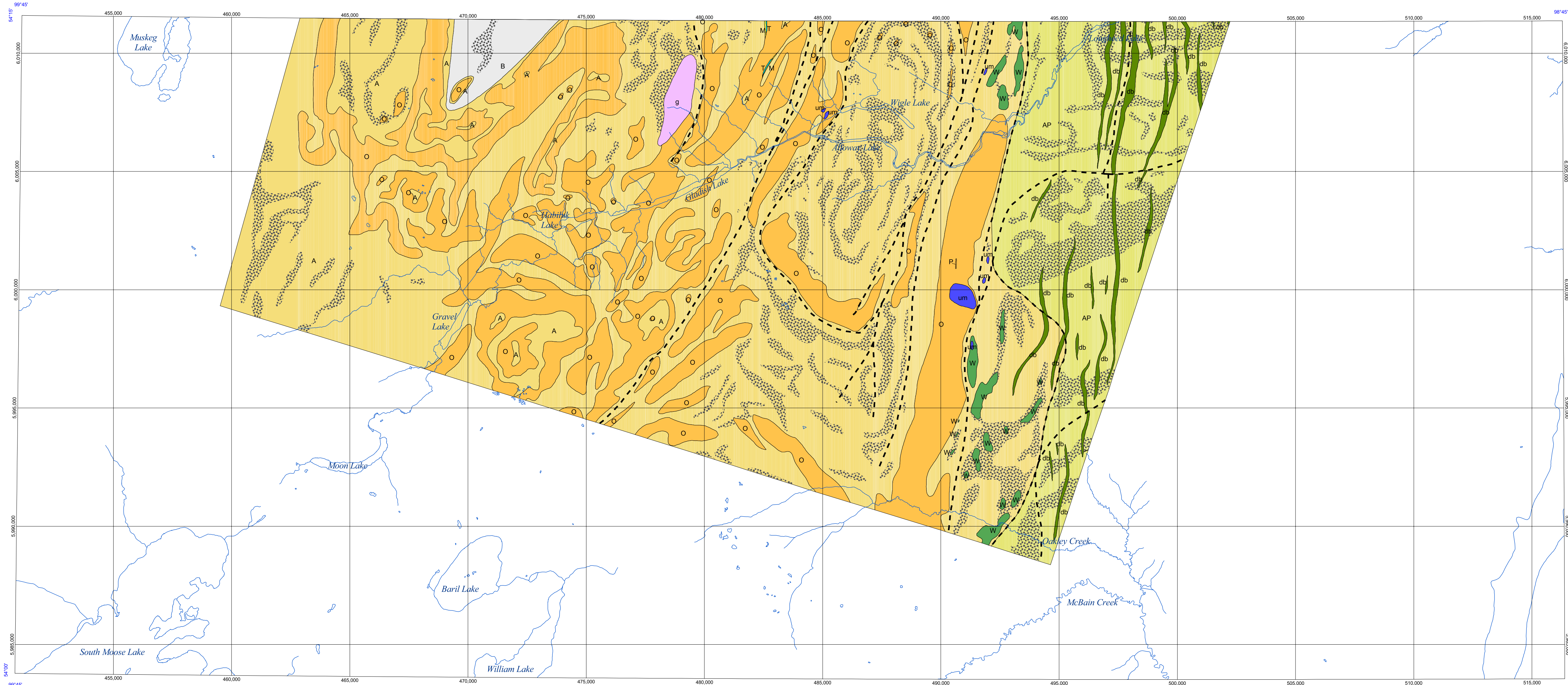


Index Map



This map is a preliminary representation of the results of a mapping and compilation program. It is not to be regarded as a final interpretation of the geology of the area. The data used in producing this map was transferred from unrectified airphotos and thus is subject to distortion. No attempt was made to remove this distortion for this preliminary release.

Suggested reference:
 TMB Geology Working Group
 2001. THOMPSON NICKEL BELT GEOLOGY
 Manitoba Geological Survey, Preliminary Map 2001HB-1,
 Geology of the Kiskitto Lake west (63J/2 west half),
 Gladish Lake (63J/3) and Talbot Lake east (63J/4
 east half) area, scale 1: 100 000.



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