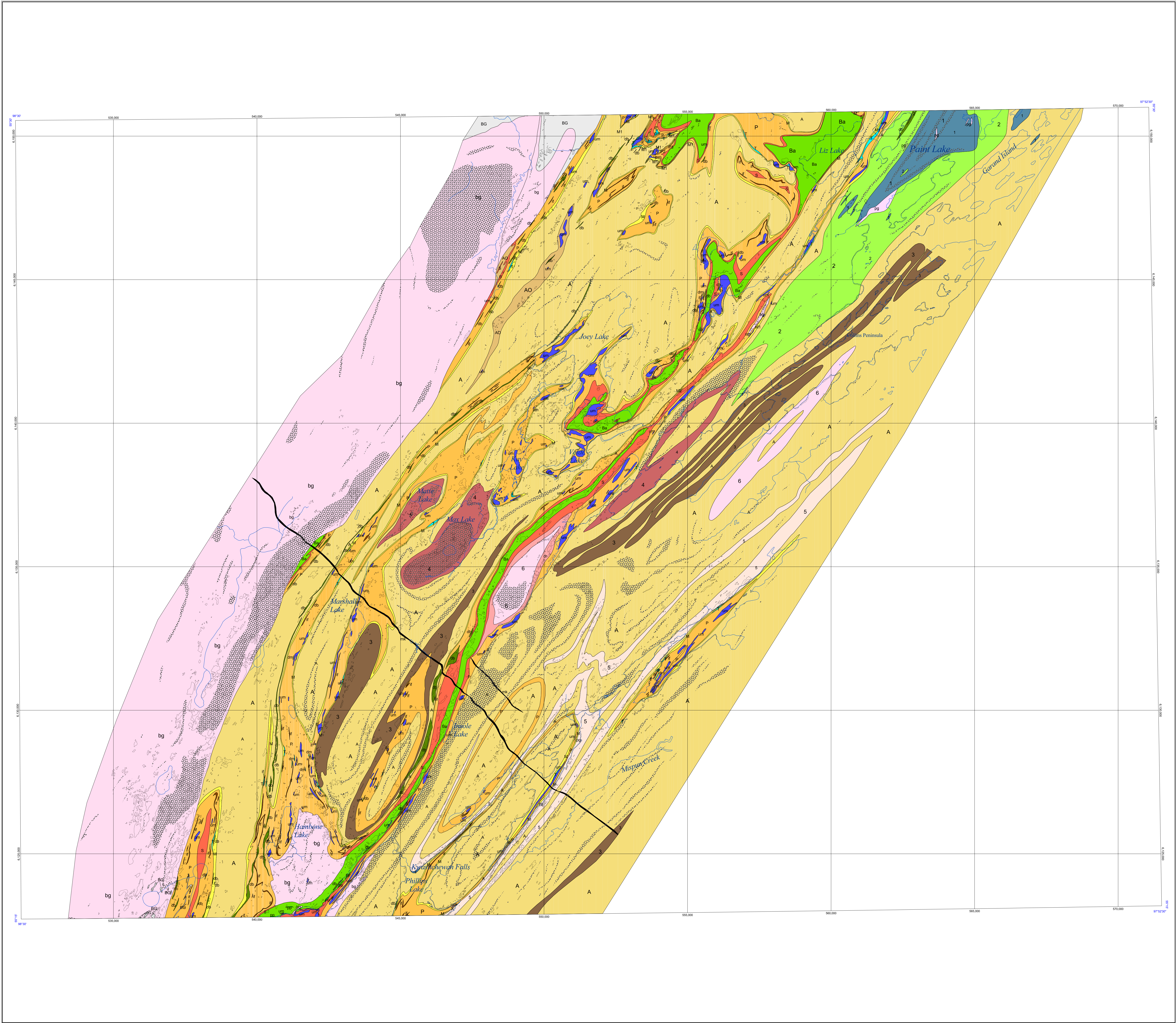


Geology of the Hambone Lake (63O/8) and
Thicket Portage west (part of 63P/5) area

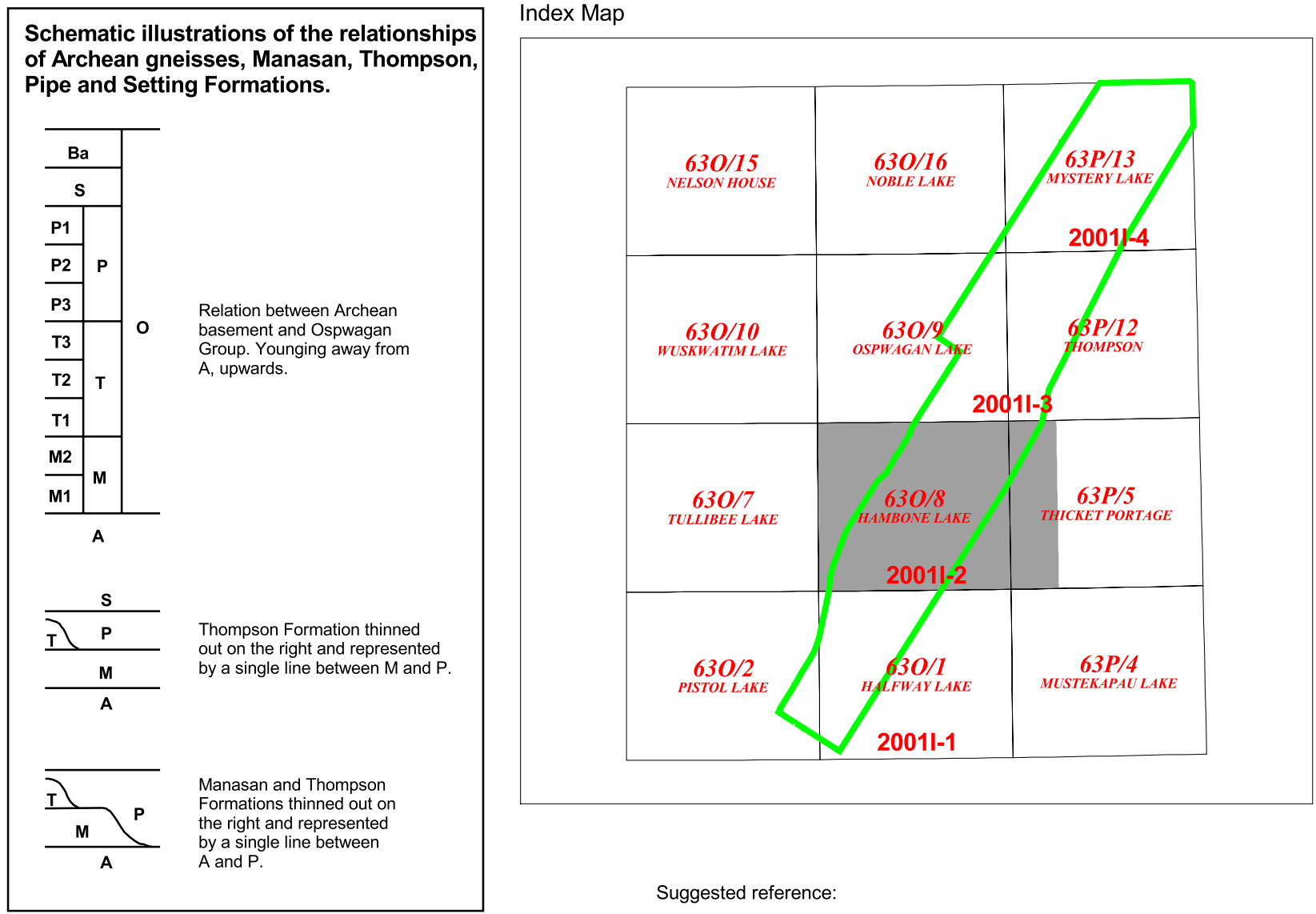
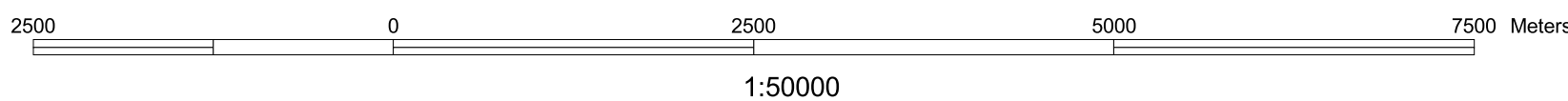


LEGEND

- INTRUSIVE ROCKS, ORTHOGNEISS**
- m3** Gabbro of MacKenzie dyke swarm
 - g** Metadiabase or metagabbro dykes. In O or A, usually belong to Molson dyke swarm
 - pg** Pegmatite
 - g** Granite, granitoid rocks
 - lg** Leucogranite
 - bg** Biotite granite
 - hm** Hornblende granite
 - hg** Hornblende - biotite granite
 - dr** Granodiorite
 - qm** Quartz monzonite
 - qs** Quartz syenite
 - bm** Biotite - hornblende quartz monzonite
 - qd** Quartz diorite
 - gb** Metagabbro, usually associated with um or occurring as subvolcanic sills
 - um** Danite (serpentinized), metaperidotite, metapyroxenite, serpentine, derived ultramafic schist; usually as sills in Osipwan Group sequence
- BURNTWOOD AND GRASS RIVER GROUPS, undivided**
- G** GRASS RIVER GROUP, undivided; mainly magnetite-bearing paragneiss
 - a** Meta-arenite, undivided, layered to laminated, locally pebbly; magnetite-enriched, in places sillimanite-bearing; locally migmatized
 - s2** Pebble metaconglomerate, felsic
 - s1** Metasandstone, crossbedded, locally pebbly
 - b** Meta-arenite, undivided, layered to laminated, biotite-rich, magnetite-enriched, locally pebbly
 - r** Felsic orthogneiss, metatuff (?)
 - b2** Metavolcanic gneiss, felsic
 - b1** Metasandstone, layered to laminated, pebbly
 - h** Meta-arenite, undivided, usually hornblende-enriched
 - h2** Meta-arenite, interbedded with a metaconglomerate cp
 - h1** Meta-arenite, usually hornblende- and garnet-enriched
 - cp** Metaconglomerate, polymictic; rich in mafic fragments, interbedded with meta-arenite in varying proportions in a metaturbidite sequence containing calc-silicate "concretions"; quartzose greywacke; rare occurrences of multiple layers of quartz-rich, oligomictic conglomerate grading upwards to sandstone - siltstone - shale
 - cc** Cummingtonite - cordierite schist, layered, a single occurrence at Setting Lake
 - B** BURNTWOOD GROUP, undivided; greywacke-mudstone metaturbidite, garnet- and graphite-enriched, locally cordierite- and sillimanite-bearing; includes migmatized derivatives
 - Bm** Migmatite derived from Bw or Bp
 - Bw** Metagreywacke - mudstone paragneiss, garnet- and biotite-rich
 - Bp** Metagreywacke, cordierite- and garnet-enriched, local magnetite
- OSIPWAN GROUP SUPRACRUSTAL ROCKS, undivided**
- sa** Bah Lake assemblage, undivided; metabasalt flows, pillowed or massive, local breccia; derived amphibolite; metagabbro - diabase subvolcanic sills; picritic sills; minor interflow chert, iron formation, volcanogenic sediment
 - a** Amphibolite (rafts in granitoid)
 - aa** Bah Lake amphibolite
 - sp** Metapelite or porphyroblastic metapelite sill (not limited to the Bah Lake assemblage)
 - gb** Metagabbro, subvolcanic sill (not limited to the Bah Lake assemblage)
 - S** Setting Formation, undivided; feldspathic quartzite and metapelite interlayered in varying proportions in a metaturbidite sequence containing calc-silicate "concretions"; quartzose greywacke; rare occurrences of multiple layers of quartz-rich, oligomictic conglomerate grading upwards to sandstone - siltstone - shale
 - cc** Cummingtonite - cordierite schist, layered, a single occurrence at Setting Lake
 - P** Pipe Formation, undivided; iron formation, chert, metapelite schist; minor semipelite, dolomite marble, calc-silicate
 - P3** Sequence of silicate and oxide facies iron formations, sulphidic; chert; minor dolomite marble, calc-silicate; near the top sandstone - pelitic metaturbidite
 - dm** Dolomite marble intercalation enclosed in silicate facies iron formation of P3
 - ox** Iron formation, oxide facies, found only in P3
 - sl** Iron formation, silicate facies, stratigraphic position unknown unless determined by its host P1 or P3
 - se** Iron formations of several facies occurring close together
 - su** Iron formation, facies unspecified, stratigraphic position unknown
 - P2** Metapelite schist with sulphidic facies iron formation near its top; minor calc-silicate and chert
 - su** Iron formation, sulphidic facies, stratigraphic position unknown unless determined by its host P1 or P2
 - P1** Sequence of iron formations and associated chert layers
 - sl** Iron formation, silicate facies, stratigraphic position unknown unless determined by its host P1 or P3
 - su** Iron formation, sulphidic facies, stratigraphic position unknown unless determined by its host P1 or P2
 - T** Thompson Formation, undivided; marble, layered, varied in composition and texture
 - T3** Olivine - phlogopite - diopside marble, coarse grained
 - T2** Semipelite, very thin layer between T1 and T3
 - T1** Marble, laminated to thinly layered; dolomite marble
 - M** Manasan Formation, undivided; basal clastic rocks
 - M2** Semipelite schist, rhythmically layered; calc-silicate layer near the top; pegmatite segregations in high grade metadiabase; dolomite
 - M1** Basal metaconglomerate, sandstone, shale; graded beds, fining upwards
- ARCHAEN BASEMENT AND OSIPWAN GROUP, undivided**
- A** ARCHAEN BASEMENT METAMATITE - GNEISS, undivided, retrogressed, leucogranite to diorite in composition, best to distinct bodies of orthogneiss (1 to 6), ages uncertain
 - 6** Biotite granite orthogneiss
 - 5** Leucocratic gneiss, garnet- and magnetite-bearing
 - 4** Migmatite, stromatic, magnetite-enriched
 - 3** Alkali-feldspar syenite gneiss, porphyroblastic
 - 2** Enderbite gneiss
 - 1** Metagabbro, layered, garnetiferous

SYMBOLS

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



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