



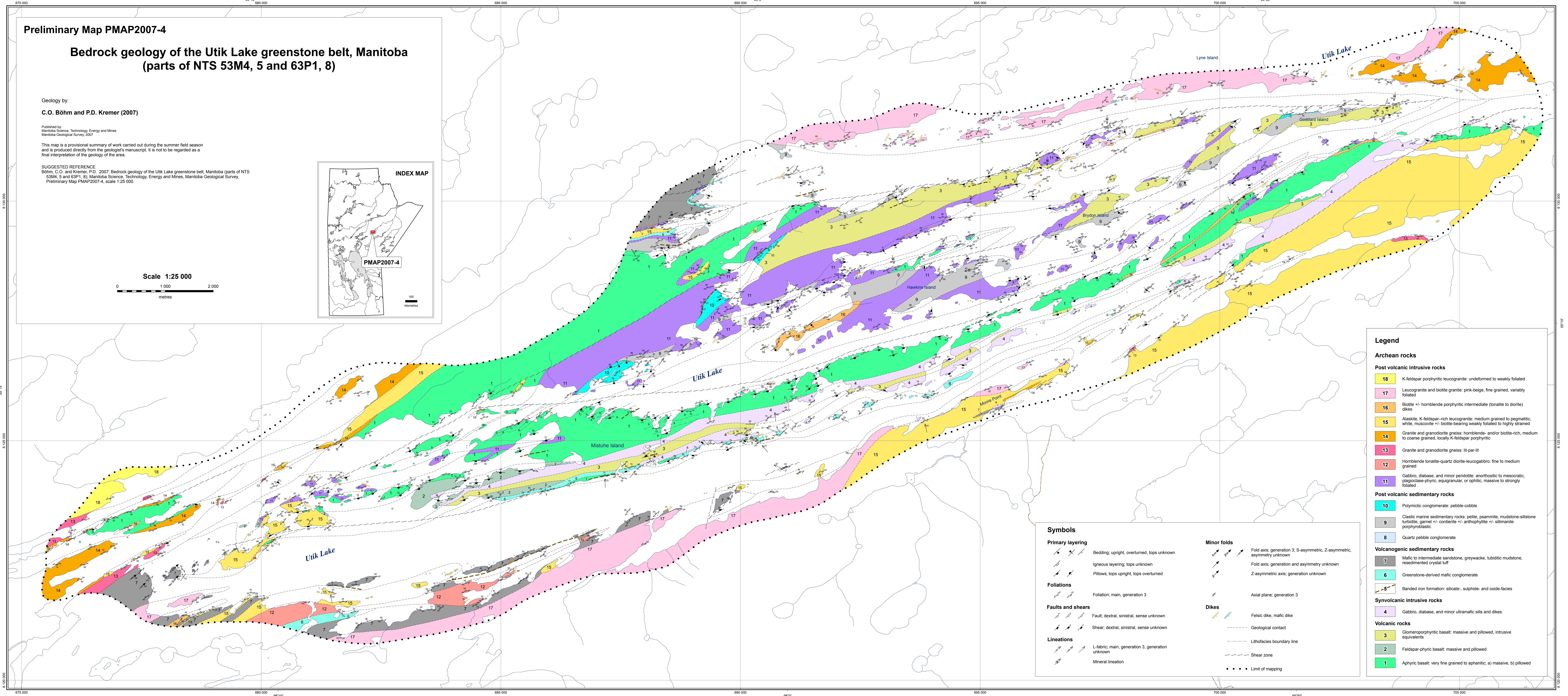
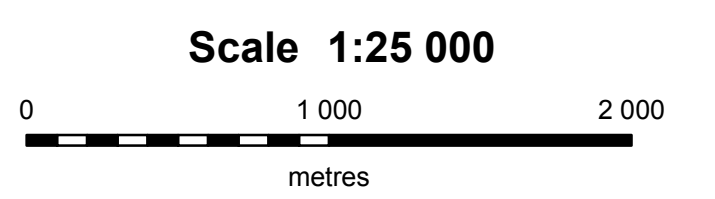
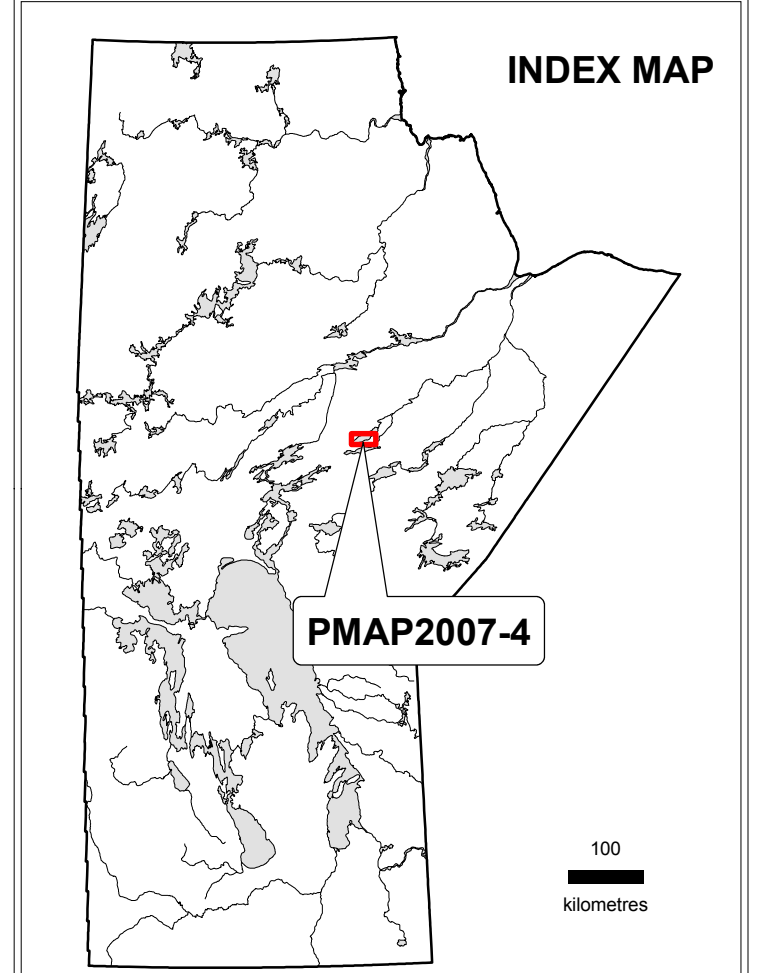
Preliminary Map PMAP2007-4
Bedrock geology of the Utik Lake greenstone belt, Manitoba
(parts of NTS 53M4, 5 and 63P1, 8)

Geology by:
C.O. Böhm and P.D. Kremer (2007)

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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.

SUGGESTED REFERENCE
 Böhm, C.O. and Kremer, P.D., 2007. Bedrock geology of the Utik Lake greenstone belt, Manitoba (parts of NTS 53M4, 5 and 63P1, 8). Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2007-4, scale 1:25 000.



Symbols

Primary layering	Minor folds
Bedding: upright, overturned, tops unknown	Fold axis; generation 3; S-asymmetric, Z-asymmetric, asymmetry unknown
Igneous layering; tops unknown	Fold axis; generation and asymmetry unknown
Pillows; tops upright, tops overturned	Z-asymmetric axis; generation unknown
Foliations	Axial plane; generation 3
Foliation; main, generation 3	Dikes
Faults and shears	Felsic dike, mafic dike
Fault; dextral, sinistral, sense unknown	Geological contact
Shear; dextral, sinistral, sense unknown	Lithofacies boundary line
Lineations	Shear zone
L-fabric; main, generation 3, generation unknown	Limit of mapping
Mineral lineation	

Legend

Archean rocks

Post volcanic intrusive rocks

- 18 K-feldspar porphyritic leucogranite: undeformed to weakly foliated
- 17 Leucogranite and biotite granite: pink-beige, fine grained, variably foliated
- 16 Biotite +/- hornblende porphyritic intermediate (tonalite to diorite) dikes
- 15 Alaskite, K-feldspar-rich leucogranite: medium grained to pegmatitic, white, muscovite +/- biotite-bearing weakly foliated to highly strained
- 14 Granite and granodiorite gneiss: hornblende- and/or biotite-rich, medium to coarse grained, locally K-feldspar porphyritic
- 13 Granite and granodiorite gneiss: lit-par-lit
- 12 Hornblende tonalite-quartz diorite-leucogabbro: fine to medium grained
- 11 Gabbro, diabase, and minor peridotite: anorthositic to mesocratic, plagioclase-phytic, equigranular, or ophitic, massive to strongly foliated

Post volcanic sedimentary rocks

- 10 Polymictic conglomerate: pebble-cobble
- 9 Clastic marine sedimentary rocks: pelite, psammite, mudstone-siltstone turbidite, garnet +/- cordierite +/- anthophyllite +/- sillimanite porphyroblastic
- 8 Quartz pebble conglomerate

Volcanogenic sedimentary rocks

- 7 Mafic to intermediate sandstone, greywacke, turbiditic mudstone, resedimented crystal tuff
- 6 Greenstone-derived mafic conglomerate
- 5 Banded iron formation: silicate-, sulphide- and oxide-facies

Synvolcanic intrusive rocks

- 4 Gabbro, diabase, and minor ultramafic sills and dikes

Volcanic rocks

- 3 Glomeroporphyritic basalt: massive and pillowed, intrusive equivalents
- 2 Feldspar-phyric basalt: massive and pillowed
- 1 Aphyric basalt: very fine grained to aphanitic; a) massive, b) pillowed

