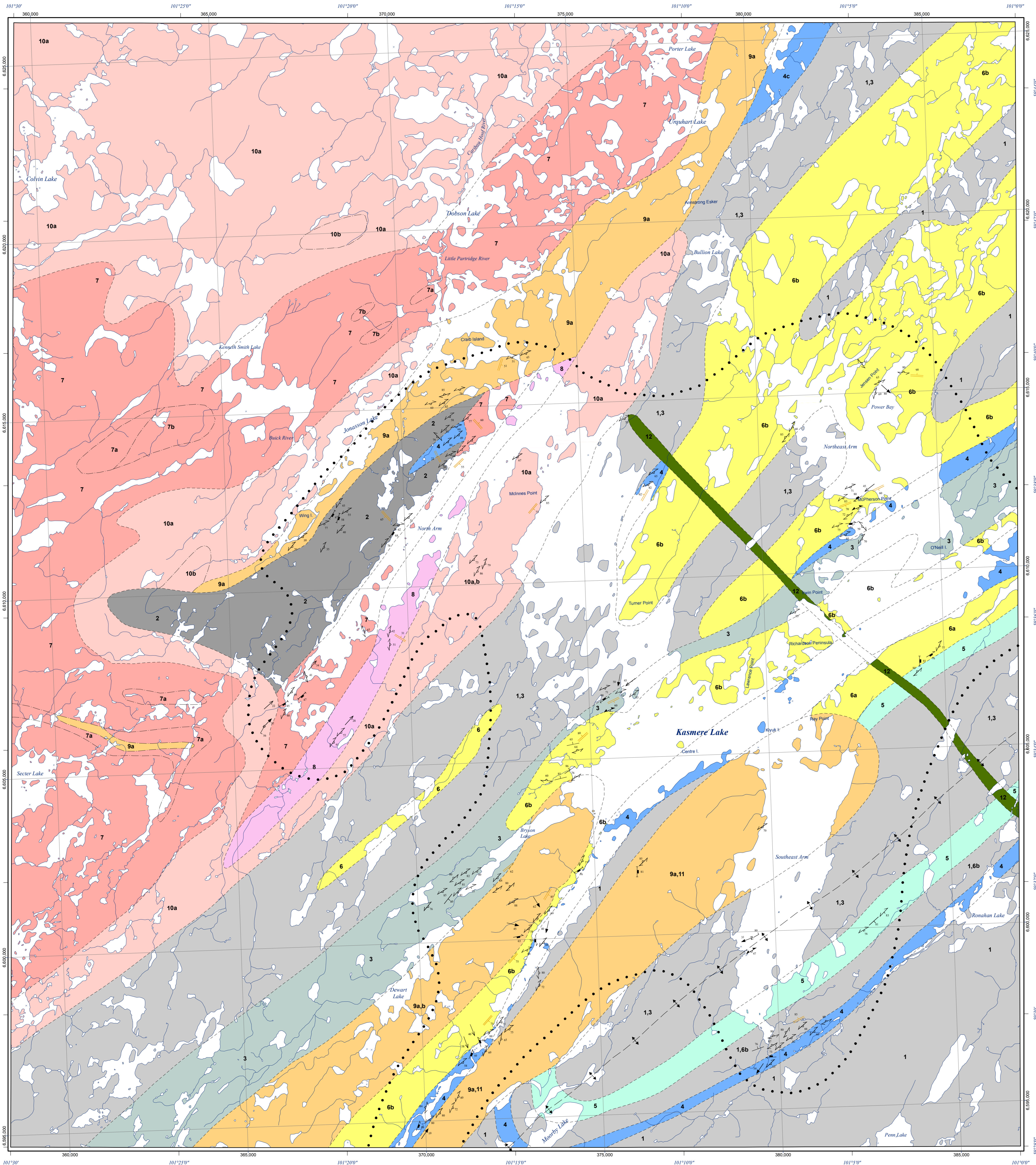




# Bedrock geology of the Kasmere Lake area, Manitoba (NTS 64N11 and part of NTS 64N6)



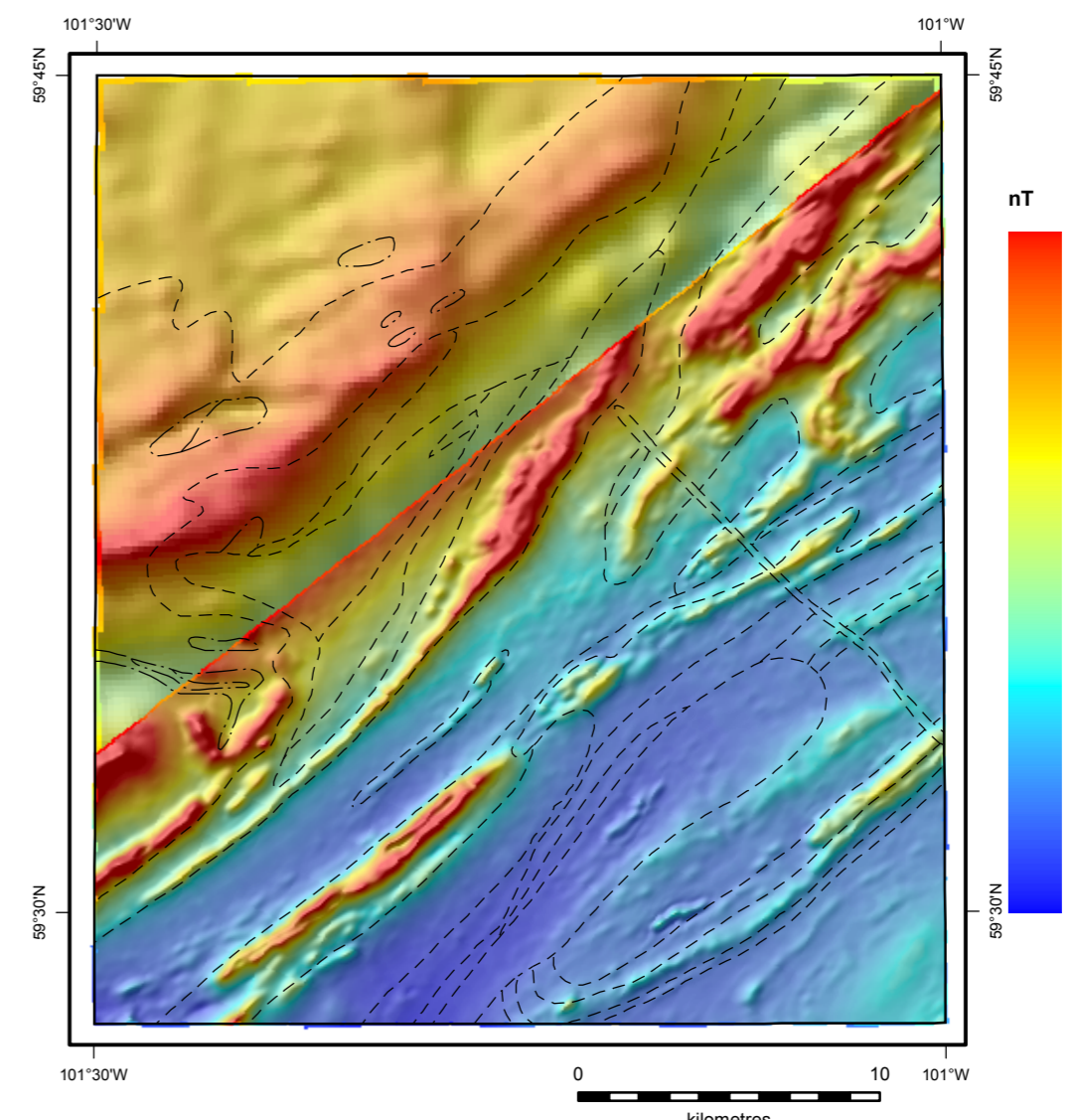
## Legend

- 12** Mafic dike
- 11** Granitic pegmatite
- 10** Pink leucogranite, syenogranite; locally pegmatitic
  - 10b contains abundant xenoliths
  - 10a fine to medium grained, weakly to moderately foliated, biotite-bearing
- 9** White leucogranite, syenogranite; locally pegmatitic
  - 9b contains abundant xenoliths
  - 9a medium grained, weakly foliated, tourmaline ± garnet-bearing
- 8** Porphyritic foliated granodiorite to granite
- 7** Granitoid gneiss; white to light grey
  - 7b amphibolite enclave
  - 7a contains paragneiss enclaves
- 6** Arkose
  - 6b arkosic wacke
  - 6a sillimanite-bearing
- 5** Quartzite
- 4** Calcareous rocks
  - 4c 'albite-pyroxene rock'; interpreted meta-evaporite (Weber et al., 1975)
  - 4b includes minor interlayered marble
  - 4a thinly-layered calcilicite; intensely folded
- 3** Psammitic paragneiss
  - 3a calcareous
- 2** Graphitic biotite-rich semipelite
- 1** Semipelitic paragneiss
  - 1b graphitic
  - 1a calcareous

Note: Unit in screened type does not appear on this map sheet.

## Symbols

- Layering**
    - Paragneiss layering
  - Foliation**
    - Foliation; generation 1, generation 2 generation unknown
    - Gneissosity
  - Minor fold axial plane**
    - Generation unknown
  - Minor fold axis; generation unknown**
    - Symmetrical, Z asymmetric, symmetry unknown
  - Lineation**
    - Generation unknown
  - Shear band**
    - Dextral, sinistral, sense unknown
  - Dikes and sills**
    - Felsic dike
- Contact; approximate
  - Gradational contact
  - Antiform
  - Limit of new mapping
  - Reef



The magnetic data used in this map are a composite of 2 sources:  
 (1) Regional residual total field magnetic data with a pixel size of 200 m  
 (2) Total field magnetic data at a pixel size of 62.5 m (eastern portion of map) from a survey done by the Geological Survey of Canada (1978).  
 The data are available from the Geological Survey of Canada through their download service at:  
[http://gdr.aggrnrcan.gc.ca/wms/index\\_e.html](http://gdr.aggrnrcan.gc.ca/wms/index_e.html)

Reference:  
 Geological Survey of Canada 1978. Canada-Manitoba uranium reconnaissance program: aeromagnetic gradiometer survey, Kasmere Lake, Manitoba. Geological Survey of Canada, Open File 528, 20 maps, scale 1:25 000.

## Geology by: C.O. Böhm and S.D. Anderson (2006)

Includes geology modified from:  
 Thomas, K.A. and Lamb, C.F. 1975. Kasmere Lake, Map 74-2-6; in Geology of the Kasmere Lake-Wakeley-Jack Lake (North Half) Area, Manitoba Mines, Resources and Environmental Management, Mineral Resources Division, Publication 74-2, 163 p. + 24 maps at 1:50 000, 5 maps at 1:250 000, 1 map at 1:375 000.

Published by:  
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 Manitoba Geological Survey, 2006

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 Anderson, S.D. 2006. Bedrock geology of the Kasmere Lake area, Manitoba (NTS 64N11 and part of NTS 64N6), Manitoba Science, Technology, Energy and Mines, Manitoba Geological Survey, Preliminary Map PMAP2006-4, scale 1:50 000.

