

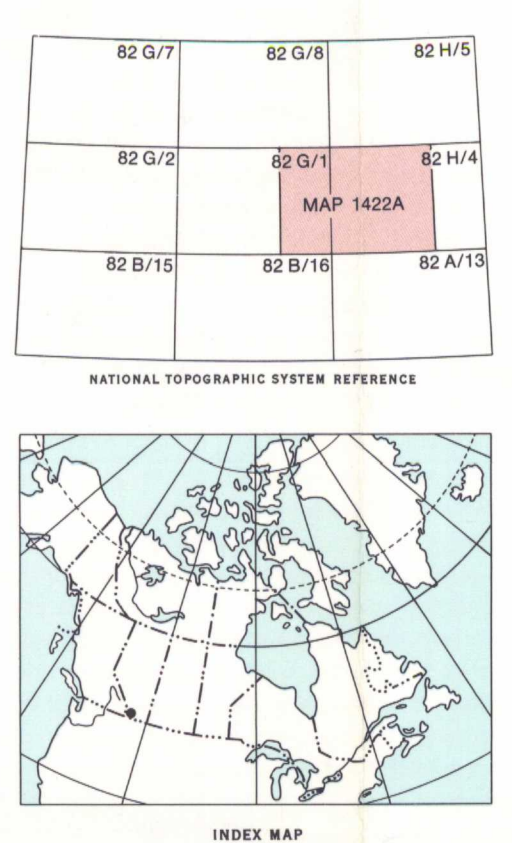
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 GEOLOGICAL SURVEY  
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GEOLOGICAL SURVEY OF CANADA  
 DEPARTMENT OF ENERGY, MINES AND RESOURCES

MAP 1422A  
 MISCELLANEOUS REPORT 26  
 QUATERNARY GEOLOGY  
**WATERTON LAKES NATIONAL PARK**  
 ALBERTA  
 Scale 1:50,000

Kilometres 1 0 1 2 3 4  
 Miles 1 0 1 2

Universal Transverse Mercator Projection  
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- LEGEND**
- POSTGLACIAL**
- 13 Swamps and Bogs: includes flooded land
  - 12 Eolian deposits: includes areas covered by loess and dunes
  - 11a 11b Stream alluvium: material deposited by modern streams in their flood plains; a, coarse, b, fine
  - 10 Alluvial fans and cones: talus and coarse alluvium
- GLACIAL**  
**COROLLERIAN DEPOSITS (WISCONSIN AND POSSIBLY EARLIER)**
- 9 Glaciofluvial deposits: outwash plains and associated esker complexes; stratified sand and gravel
  - 8 8a Ice-contact stratified drift: individual kames and large hummocky masses deposited at the ice margin; mostly sand and gravel with lenses of till; a, kame terrace
  - 7 7a Moraine ridges: mostly lateral moraines in large valleys and/or end moraines damming mountain lakes; composed primarily of till with some glaciofluvial deposits; a, inferred to be older than 7
  - 6 6a Hummocky moraine: rolling topography with numerous ponds; composed primarily of till with local concentrations of clay and minor amounts of stratified drift; a, inferred to be older than 6
  - 5 5a Ground moraine: composed mostly of till containing abundant stratifica of mountain origin; characteristically reddish; a, rock outcrops numerous
- LAURENTIDE (PRE-WISCONSIN ?)**
- 4 Sand and gravel: stratified, abundant stones from Canadian Shield
  - 3 Ground moraine: composed of till, locally silty and clayey; minor amounts of stratified drift; contains stones from Canadian Shield
  - 2 Hummocky moraine: composed primarily of till with small amounts of stratified drift
- PREGLACIAL**
- 1 1a Bedrock: locally covered by talus or drift; a, mantled by sand and silt derived from the local bedrock
- Geological boundary (defined, approximate, assumed) .....  
 Limit of evidence for Laurentide ice advance (defined, approximate, assumed) .....  
 Older cirques, valley remnants .....  
 Non-glaciated or weakly glaciated .....  
 Direction of glacier flow .....  
 Cirque headwall .....  
 Arête or divide .....  
 Rock step (riegel) .....  
 Drainage channel .....  
 Terraces .....  
 Horn peak .....  
 Crevasse filling .....  
 Kettle Lake .....  
 Dune .....  
 Drumlin .....  
 Esker .....

Geology by J.E. Harrison 1972  
 To accompany Miscellaneous Report 26 by J.E. Harrison  
 Geological cartography by R.R. Perron, Geological Survey of Canada  
 Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada  
 Base-map at the same scale published by the Surveys and Mapping Branch in 1971, 1973, with minor revisions by the Geological Survey of Canada  
 Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa  
 Approximate magnetic declination 1975, 20'07.1" East, decreasing 5.4" annually  
 Elevations in feet above mean sea-level