



LEGEND

This legend is common to GSC maps 2048A-2060A, and MGS geoscientific maps MAP2003-1-MAP2003-12. Coloured legend blocks indicate map units that appear on this map. Not all map symbols shown in the legend necessarily appear on this map.

QUATERNARY

NONGLACIAL DEPOSITS

- O** Organic deposits: peat, muck, <1-5 m thick; very low relief wetland deposits; accumulated in fen, bog, swamp, and marsh settings.
- E** Eolian sediments: fine sand; 1-5 m thick; dunes; formed by wind prior to stabilization by vegetation, in most cases on subaqueous outwash sand.
- Lm** Shoreline sediments: sand and gravel; 1-2 m thick; beaches; formed by waves at the margins of modern lakes.

ALLUVIAL SEDIMENTS: sand and gravel, sand, silt, clay, organic detritus; 1-20 m thick; channel and overbank sediments; deposited by postglacial rivers.

- Ap** Overbank deposits.
- Ac** Channel deposits.

GLACIOLACUSTRINE DEPOSITS

GLACIAL LAKE SHORELINE SEDIMENTS: sand and gravel; 1-20 m thick; beach ridges, spits, bars, littoral sand and gravel; formed by waves at the margin of glacial Lake Agassiz.

- Ls** Shoreline deposits.
- Li** Littoral deposits.

OFFSHORE GLACIOLACUSTRINE SEDIMENTS: clay, silt, minor sand; 1-20 m thick; very low relief massive and laminated deposits; deposited from suspension in offshore, deep water of glacial Lake Agassiz; commonly scoured and homogenized by icebergs.

- Lz** Clayey to sandy silt.
- Lc** Clay to silty clay.

GLACIOFLUVIAL DEPOSITS

- Gs** Subaqueous outwash: fine sand, minor gravel, thin silt and clay interbeds; 1-75 m thick; subaqueous outwash fans; deposited near the low margin in glacial Lake Agassiz by meltwater turbidity currents, commonly reshaped by wave erosion and reworked by wind.
- Gc** Ice-contact glaciofluvial sediments: sand and gravel; 1-20 m thick; complex deposits, belts with single or multiple esker ridges and kames, as well as thin, low-relief deposits; deposited in contact with glacial ice by meltwater.
- Gp** Predominantly derived from igneous and metamorphic rocks.

GLACIAL DEPOSITS

- T** Till: calcareous silt diamictite; 1-75 m thick; low-relief, commonly streamlined deposits; subglacial deposits; largely derived from carbonate rocks; thicker sequences consist of multiple units of varying texture; commonly scoured by icebergs; covered discontinuously by thin veneers (<1 m) of glaciolacustrine and glaciofluvial sediments.
- Tc** Predominantly derived from carbonate rocks.
- Tp** Predominantly derived from igneous and metamorphic rocks.

PRE-QUATERNARY

ROCK: >75% bedrock outcrop; Paleozoic; carbonate-dominated rocks in areas west and south of Lake Winnipeg, exposed typically as glacially stratified, low-relief surfaces; in Precambrian terranes, generally unweathered intrusive, metasedimentary, and metavolcanic rocks having a glacially scoured irregular surface with high local relief; includes patches of thin glacial sediments and organic material.

- Rc** Paleozoic sedimentary rocks.
- Rp** Precambrian igneous and metamorphic rocks.

Geological boundary (approximate) : - - - - -
 Unmapped built-up area (map GSC 2055A / MGS MAP2003-7 only) : [Symbol]
 Mine waste : [Symbol]
 Peat-extraction area : [Symbol]
 Gravel pit : [Symbol]
 Mine or bedrock quarry : [Symbol]
 Stabilized dunes : [Symbol]
 Abandoned channel : [Symbol]
 Minor beach ridge : [Symbol]
 Wave-cut scarp : [Symbol]
 Groundwater sapping channel : [Symbol]
 Piping depression : [Symbol]
 Iceberg scour : [Symbol]
 Tunnel valley : [Symbol]
 Esker (direction of flow indicated) : [Symbol]
 Streamlined landform : [Symbol]
 Glacial esker : [Symbol]
 Crossed stile (numbers indicate relative age, 1 being the oldest) : [Symbol]
 Small bedrock outcrop : [Symbol]

Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0S8, 3800 St. John Street, N.W., Calgary, Alberta T2A 2A7, 101-600 Robson Street, Vancouver, B.C. V6B 5Z5, Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, Publication Sales, 380-1386 Ellice Avenue, Winnipeg, Manitoba R3G 3P2.

Geology by A.K. Burt, University of Waterloo, 1997-1998

Co-ordinated by H. Thorlifton and G.L.D. Mettle through the auspices of the Southern Prairies NATMAP Project and the Winnipeg Region NATMAP Project

Digital cartography by S.J. Froberg, Earth Sciences Sector Information Division (ESS Info)

This map was produced from processes that conform to the ESS Info Publishing Services Subdivision Quality Management System, registered to the ISO 9001:2000 standard

GSC MAP 2050A
MGS GEOSCIENTIFIC MAP MAP2003-2
SURFICIAL GEOLOGY
BÉLAIR
MANITOBA

Scale 1:100 000 / Échelle 1/100 000

Universal Transverse Mercator Projection
North American Datum 1983
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Projection transversale universelle de Mercator
Système de référence géodésique nord-américain, 1983
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Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada and the Manitoba Geological Survey.

Digital base map from data compiled by Geomatics Canada, modified by ESS Info

Mean magnetic declination 2004, 3°53' E, decreasing 6.0' annually. Readings vary from 4°25' E in the SW corner to 3°20' E in the NE corner of the map

Elevations in metres above mean sea level, except in the NE quadrant (NTS 62-416) where elevations are in feet

02 01 01	02 01 02	02 01 03	02 01 04	02 01 05	02 01 06
GSC 2048A	GSC 2050A	GSC 2051A	GSC 2052A	GSC 2053A	GSC 2054A
MGS MAP2003-1	MGS MAP2003-2	MGS MAP2003-3	MGS MAP2003-4	MGS MAP2003-5	MGS MAP2003-6
02 01 07	02 01 08	02 01 09	02 01 10	02 01 11	02 01 12
GSC 2055A	GSC 2056A	GSC 2057A	GSC 2058A	GSC 2059A	GSC 2060A
MGS MAP2003-7	MGS MAP2003-8	MGS MAP2003-9	MGS MAP2003-10	MGS MAP2003-11	MGS MAP2003-12

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