

LEGEND

Coloured legend blocks indicate map units that appear on this map.

QUATERNARY - SURFICIAL DEPOSITS

NONGLACIAL ENVIRONMENT

ORGANIC DEPOSITS: peat, 1 to 3 m thick; commonly underlain by fine grained lake deposits; marlbed extensive areas on the Palaeozoic terrain or occurs in more confined basins; poorly drained parts of the Shield.

7b Fine peat: wet, sedge and moss peat; includes string fern, sedge and muskeg marlbed; occurs as thin patches with low beds; commonly underlain by marlbed; common from edge of river; siltstone; horizontal deposits to be absent except in isolated patch or past plateau which occur within the flow bed.

7a Bog peat: moss and sedge peat; occurs as raised irregular surfaces with an open to closed silt cover; derived from sparse forest vegetation; muskeg/peat deposits and peat; muskeg ridges and forested peat plateaus are common; contains some areas of collapse scar fans.

6 **ALLUVIAL DEPOSITS:** silt, sand and gravel, up to 30 m thick; deposited by running water in both modern and old channels; occurs mostly in the drainages of the Saskatchewan River, its floodplains, terraces, oxbow bars, meander scars, and deltas.

PROGLACIAL ENVIRONMENT

GLACIAL LAKE DEPOSITS: massive to stratified clay, silt, sand and gravel; thickness ranges from a thin veneer to tens of metres; deposited in glacial Lake Agassiz and carried to the basin in large part by glacial meltwater.

5c Nearshore and littoral sediments: sand, gravel, and rock rubble; moderately sorted and commonly horizontally bedded; occurring either as a blanket of sand commonly less than 2 m thick grading between and into sandstone or as isolated or series of ridges, 1 to 3 m in height (includes beachbars, bars, and shals); commonly well developed on glacially deposited, light to medium beach deposits occur on carbonate bedrock in the SE part of the study area.

5b Offshore sediments: clay, silt and silt sand; generally unsorted, grayish, and usually calcareous; or massive and brownish red surface; 2 to 18 m thick; up to 45 m thick in the Minagoi glaciolacustrine plain; may contain lenticular sandstone, sandstone, and clayey siltstone deposited on the ice margin or under a floating ice sheet; forms flat plains in low relief areas; commonly marked with pits; surface locally incised by lenticular scars.

5a Offshore sediment veneer: clay, silt and silt sand; forms a discontinuous blanket less than 2 m thick; deposits commonly underlying glacial and bedrock topography; also includes unsorted/bedded glaciolacustrine sediments deposited as stage water lapped or near the ice margin.

GLACIAL ENVIRONMENT

GLACIOFLUVIAL DEPOSITS: water sorted, stratified sand, gravel, cobble, and boulder; up to 25 m thick; deposited in, around or near a glacier; largely as a result of meltwater flow.

4 Outwash sediment: sand and gravel, well rounded and commonly stratified; 2 to 20 m thick; common by lateral moraine and delta deposits; occurs either as valley flats and subglacial outwash fans, within or adjacent to meltwater channels or as extensive flow formed in glacial Lake Agassiz; surface are commonly hummocky and hummocky.

3 Ice contact stratified dilt: interbedded sand, gravel, cobble, and boulder; thickness ranges from 2 to 25 m; forming ridges, terraces, crevasse ridges, ice contact spurs, and recessional, end, and stadial moraine.

GLACIAL DEPOSITS: 1a and related sediments, comprising unsorted to poorly sorted debris deposited at the end of or near a glacier. Glacial deposits of northern provenance are generally sandy, non to slightly calcareous (siltstone) and commonly well developed on glacially deposited, light to medium beach deposits. Those of eastern provenance or unsorted by Palaeozoic bedrock are generally silty sandy, slightly to strongly calcareous, and contain lower siltstone.

2a, 2b F1 blanket: forms a continuous cover, 1 to several metres in thickness, making underlying bedrock topography; surface commonly flat and may be covered by a discontinuous layer of Lake Agassiz silt; 2a - calcareous silt; 2b - calcareous silt.

1a, 1b F1 veneer: forms a discontinuous cover, ranging from 0 to 1 m in thickness; commonly occurs on the low side of bedrock highs; intergraded with isolated areas of fluvial 1b in bedrock depressions; surface morphology reflects underlying bedrock surface; 1a - non-calcareous silt; 1b - calcareous silt.

PRE-QUATERNARY - BEDROCK

R1 Palaeozoic sedimentary carbonate rocks; primarily dolomite and siliceous limestone, and some sandstones; surfaces are commonly pitted and host channelled; but generally polished and abrased surfaces are preserved locally; occurs as fan-like outcrops with patches of till.

R2 Precambrian metamorphic and metasedimentary rocks and associated igneous bodies; metachert, metasediments, granite and gneiss dykes, and some gabbro; intrusions; generally rounded outcrops from scattered ridges, outcrops and strand or ground surfaces; poorly rolling topography with fine grained till cover.

SYMBOLS

Geological boundary
Small bedrock outcrop
Rock escarpment
Dike (ice flow direction known, unknown; poorly defined)
Crossed strike (1 = strike)
Breadboard landform
Crag and talus landform
Rocks outcrops
Iceberg scar
Moraine ridge (recessional, end or interlobate)
Esker (direction of flow known, unknown)
Abandoned river channel (large, small)
Kettle hole (small, large)
Beach ridge, terrace, spit, or bar
Thermokarst depressions (small, large)
Pit and peat plateau
Gravel pit (active, abandoned)
Quarry



Canada

Open File 2744
SURFICIAL GEOLOGY OF THE TALBOT LAKE AREA
MANITOBA

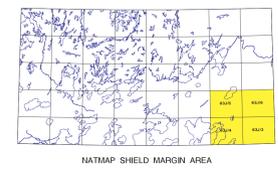
Scale 1:100 000 - Echelle 1:100 000

Mean magnetic declination 1993, 8°22' E, decreasing 8.4" annually.
Readings vary from 7°20' E in the SE corner to 9°10' E in the NW corner of the map.

Digital base map from Surveys, Mapping and Remote Sensing published at 1:50 000 scale. Georeferenced and assembled by the Geological Survey of Canada.

Copies of the topographical editions covering the map area may be obtained from the Canada Map Office, Department of Natural Resources, Ottawa, Ontario, K1A 0S8.

Elevation in feet above mean sea level



NATMAP SHIELD MARGIN AREA

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OTTAWA
1993

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