

Agency	Geological Survey of Canada
Metadata Title	Sediment Thickness of the Greater Toronto and Oak Ridges Moraine NATMAP areas, southern Ontario
Open File no.	3699
Theme	Digital Elevation Model
Project	Oak Ridges Moraine NATMAP and Hydrogeology Project
GSC project no.	930042
Digital title	Russell, H.A.J. and Stacey, P., (compilers) 2001: Bedrock Topography and Sediment Thickness DEMs of the Greater Toronto and Oak Ridges Moraine Areas, Southern Ontario; Geological Survey of Canada, Open File 3699, 1 October, 2001.
Release date	1 October 2001
Derived from	1. Bedrock Topography of the Greater Toronto and Oak Ridges Moraine areas, southern Ontario; Geological Survey of Canada; Geological Survey of Canada Open File 3419. 2. Digital Elevation Model of the Greater Toronto Area, Southern Ontario and Lake Ontario Bathymetry; Geological Survey of Canada Open File 3678
Digital Lineage	Digital operation using above noted surfaces in MapInfo / Vertical Mapper
Original Hardcopy title	Russell, H.A.J., Moore, A., Logan, C., Kenny, F., Brennand, T.A., Sharpe, D.R. and Barnett, P.J. 1998: Sediment Thickness of the Greater Toronto and Oak Ridges Moraine areas, southern Ontario; Geological Survey of Canada, Open File 2892, Scale:1:200 000
Description	Sediment thickness digital elevation model
Geographic area	Greater Toronto Area, Southern Ontario
NTS coverage	Hamilton (30M/5), Toronto (30M11), Brampton (30M/12), Bolton (30 M/13), Markham (30M/14), Oshawa (30M/15), Port Hope (30M/16), Alliston (31D/4), Newmarket (31D/3), Scugog (31D/2), Rice Lake (31D/1), Guelph (40P/9), Beaverton (31D/6), Orangeville (40P/16). Trenton (31C/4) Coverage may extend beyond the official study area.
Abstract	<p>This CD-ROM digital release contains digital elevation model files for the bedrock topography and sediment thickness surfaces of the Greater Toronto and Oak Ridges Moraine areas. The data on this CD-ROM has been released previously at 1:200,000 scale as two hardcopy Geological Survey of Canada Open Files. The documentation that accompanied the hardcopy maps is included on this CD-ROM for convenience. The bedrock topography DEM was generated in ArcInfo using a TIN and 17,000 points. Data were obtained from a variety of sources, including: MOE water wells, geotechnical reports, geological surveys, hydrogeology studies and GSC seismic surveys. The sediment thickness DEM is a derivative surface produced by subtracting the bedrock surface from the topographic surface DEM (Kenny et al. 1999). The files on this CD-ROM are provided in a variety of formats, including: E00, MapInfo - Vertical Mapper and USGS DEM. This CD-ROM does not contain any base information from Geomatics Canada National Topographic Database.</p> <p>The Oak Ridges Moraine NATMAP and Hydrogeology Project has been a collaborative geoscience project with the Ontario Geological Survey, Ontario Ministry of Environment and the Ontario Ministry of Natural Resources.</p>
Keywords	digital elevation model, Oak Ridges Moraine, Greater Toronto Area, Sediment thickness, isopach, Ontario, bedrock topography

File format	Digital Elevation Model: E00 format (ArcInfo)	
	Digital Elevation Model: USGS DEM format	
	Digital Elevation Model: Vertical Mapper - MapInfo format	
Location on CD	Data\ file format \Sed_thk	
DEM parameters	Approximate file extents (UTM)	Approximate file extents (Lat/Long)
	Xmin = 539655.000	X Min: -80.38
	Xmax = 786455.000	X Max: -77.40
	Ymin = 4788625.000	Y Min: 43.25
	Ymax = 4933425.000	Y Max: 44.49
	Z Min: 0	
	Z Max: 286	
Grid dimensions	1448 x 4824	(Vertical Mapper - MapInfo format)
File size:	76.774 MB	(Vertical Mapper - MapInfo format)
Projection	Universal Transverse Mercator (UTM), Zone 17	
Spheroid	GRS 1980	
Datum	North American Datum (NAD) 83	
Original scale	1:200 000	
Cell size (m)	100	
Data type	elevation	
Type of units	metres	
Number of units	NA	
Unit names	NA	
Base source	NA	
Base data	none	
Base data included	none	
Location on CD	NA	
Disk Access	The disc is compatible with UNIX, MS-DOS, Macintosh, and VAX operating systems equipped with the appropriate CD-ROM reader and software.	
	The disc is organized into one main directory, with a number of subdirectories	
Currentness Reference	publication date: 1 October 2001	
Maintenance and Update Frequency	None planned	
Contact Person	Moore, A.	Telephone: (613) 943-0770

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