

Agency	Geological Survey of Canada
Metadata Title	Bedrock Topography 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. MOE water well borehole database and additional data sources 2. See accompanying documentation
Original Hardcopy Title	Brennand, T.A., Moore, A., Logan, C., Kenny, F., Russell, H.A.J., Sharpe, D.R. and Barnett, P.J. 1998: Bedrock Topography of the Greater Toronto and Oak Ridges Moraine areas, southern Ontario; Geological Survey of Canada, Open File 3419, Scale:1:200 000
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.
Description	Bedrock topography digital elevation model
Geographic Area	Greater Toronto Area, Southern Ontario
Abstract	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-

	<p>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>	
Purpose	The model was developed to assist in geological and hydrogeological investigations in the Oak Ridges Moraine and Greater Toronto Area.	
Keywords	Bedrock surface, elevation data, digital elevation model, Oak Ridges Moraine, Greater Toronto Area, pushdown	
File format	<p>Digital Elevation Model: E00 format (ArcInfo)</p> <p>Digital Elevation Model: USGS DEM format</p> <p>Digital Elevation Model: Vertical Mapper - MapInfo format</p>	
Location on CD	Data\ file format \Bedrock	
DEM parameters	<p>Number of Rows = 1448</p> <p>Number of Columns = 2468</p> <p>File size</p> <p>Xmin = 539655.000 / -80.38</p> <p>Xmax = 786455.000 / -77.40</p> <p>Ymin = 4788625.000 / 43.25</p> <p>Ymax = 4933425.000 / 44.49</p>	<p>Minimum Value = -27.000</p> <p>Maximum Value = 531.000</p> <p>Mean = 195.318</p> <p>Standard Deviation = 98.553</p>
Cell Size (m)	100	
Data Type	Integer	
Units	metres	
Projection	Universal Transverse Mercator (UTM), Zone 17	
Spheroid	GRS 1980	
Datum	North American Datum (NAD) 83	

Disk Access	<p>The disc is compatible with UNIX, MS-DOS, Macintosh, and VAX operating systems equipped with the appropriate CD-ROM reader and software.</p> <p>The disc is organized into one main directory, with a number of subdirectories</p>	
Currentness Reference	publication date, 1 October 2001	
Maintenance and Update Frequency	None planned	
Contact Person	<p>Moore, A.</p> <p>Geological Survey of Canada</p> <p>Terrain Sciences Division GIS coordinator</p> <p>601 Booth Street</p> <p>Ottawa, Ontario</p>	<p>K1A 0E8</p> <p>Canada</p> <p>Telephone: (613) 943-0776</p> <p>Facsimile: (613) 947-9518</p> <p>e-mail: amoore@nrcan.gc.ca</p>
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