MRD 207 METADATA DETAIL PAGE

The following represents the Basic description of an information holding. To obtain more information about this holding, see the section named Contacts.

GENERAL INFORMATION

Official Name of the Data Set or Information Holding: Bedrock topography and overburden thickness mapping, southern Ontario

Acronyms are Used to Identify the Data Set or Information Holding: MRD207

Describe the Data Set or Information Holding: Gao, C., Shirota, J., Kelly, R.I., Brunton, F.R., van Haaften, S. (authors) The Ontario Geological Survey has developed a protocol or methodology to generate regional bedrock elevation and overburden thickness maps using water well, geotechnical and petroleum drill records as well as geological observations for southern Ontario. Using this methodology, bedrock topography and overburden thickness maps of southern Ontario were generated in ESRI ArcGIS (Grid) format. These core data sets are also available in ASCII text format for non-ESRI users. This release contains files for Google Earth users. To use Google Earth, at least 128 MB of RAM is required (256 MB or higher recommended). This release also includes a report (*.pdf* format) outlining the protocols and methodology developed by the Ontario Geological Survey (OGS) to generate regional bedrock elevation and overburden thickness maps for southern Ontario. Details of the data sets are provided in a readme (*.pdf*) file and a metadata (*.pdf*) file.

The Intended Use and Purpose for Collecting the Data Set or Information Holding: This digital mapping initiative for southern Ontario was undertaken to determine the true nature of the bedrock surface both in thin-drift areas and in areas where overburden is thick in order to better understand both exposed and buried bedrock topographic features in relation to the known and/or inferred regional bedrock geology. Such information will aid other provincial government agencies, municipal governments and Conservation Authorities in characterizing regional geological information for land-use planning, source water protection legislation and nutrient management legislation purposes. This information will complement the digital seamless Paleozoic bedrock and karst map layers, which have been compiled simultaneously for southern Ontario. The objective of this product is to collect and disseminate geoscience information for Ontario.

Describe any Restrictions and Legal Prerequisites for Accessing the Data Set (Data Privacy/Security): Abbreviated Terms of Use "Content" and/or "Electronic Information Product" (EIP) and its Content: This Content and/or EIP

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Gao, C., Shirota, J., Kelly, R. I., Brunton, F.R., van Haaften, S. 2006. Bedrock topography and overburden thickness mapping, southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 207. ISBN 1-4249-2550-9

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Time Coverage: Tuesday, December 12, 2006
Time Coverage Comments: Date of publication.
Enter or Select the Current Status of the Data Set: Complete
Enter or Select the Frequency with which Changes or Additions are Made to the Data Set: As Needed
Enter the retention schedule number: 9999

Retention period or description:
Keywords:

BEDROCK
BEDROCK GEOLOGY, GENERAL
BEDROCK TOPOGRAPHY
DIGITAL MAPS
DRIFT
DRIFT THICKNESS
GEOPHYSICAL
GIS
MINISTRY OF NORTHERN DEVELOPMENT AND MINES
MNDM
MRD
OGS
ONTARIO GEOLOGICAL SURVEY

Business Theme:

GEOLOGICAL SURVEY
GEOLOGY

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Coordinate: 46° 01'
South Bounding Coordinate: 41° 41'
West Bounding Coordinate: -83° 29'
East Bounding Coordinate: -74° 21'

Geographic Completeteness: 100% Complete

MAPPING INFORMATION

Grid Coordinate System Used: decimal degrees
Map Projection: Geographic
Horizontal Geodetic Datum: NAD83
Vertical Geodetic Datum: Not Applicable
Position Accuracy of Features:

Horizontal: +/- 100 m
Vertical: Approximate: +/- 10 m

DATA SOURCE INFORMATION

Data Source Type: Aerial Survey

Describe for the Source Data Contribution: The SRTM DEM was used to supplement the MNR DEM.

Name of the Source Data Set: SRTM DEM

The Acronyms Used to Identify the Source Data Set: SRTM DEM
Name of the Organization that Create the Source Data Set: National Aeronautics and Space Administration

Data Source Type: Other Compiled Dataset
Describe for the Source Data Contribution: The NOAA Bathymetry was used to supplement the MNR DEM.
Name of the Source Data Set: Bathymetry of Lake Erie and Lake Saint Clair
The Acronyms Used to Identify the Source Data Set: NOAA Bathymetry
Name of the Organization that Create the Source Data Set: National Oceanic and Atmospheric Administration

CONTACT

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METADATA

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Date when Metadata Should be Reviewed: Thursday, December 31, 2009

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