

# **GRS 005 Metadata**

## **GENERAL INFORMATION**

**Official Name of the Data Set or Information Holding:** Karst of Southern Ontario and Manitoulin Island

**Acronyms are Used to Identify the Data Set or Information Holding:** GRS005

**Describe the Data Set or Information Holding:** Brunton, F.R. and Dodge, J.E.P (authors)  
This publication can be downloaded from GeologyOntario: see Distribution Information.

The Ontario Geological Survey (OGS), Sedimentary Geoscience Section, has generated an attributed GIS-based, Karst map of southern Ontario and Manitoulin Island as well as a detailed report. This digital data release contains reconnaissance-level field data and polygons depicting the nature and regional distributions of karstification of Paleozoic bedrock units within thin drift and exposed bedrock regions of southern Ontario and Manitoulin Island. Field photos of key karst features such as caves, sinkholes, disappearing streams and springs, and solution-enhanced joint sets are highlighted for selected regions on the digital map. The relative response of the various sedimentary rock units to karstification is placed within a stratigraphic and geographic context. The data is organized into a series of folders of varying type and format. These include: 1) main Karst report to accompany map; 2) an ArcGIS® map; and 3) a second report prepared by Golder Associates and OGS staff describing 3D data in the form of field site descriptions and joint measurements, digital core logs, and geophysics from select regions to further delineate/investigate the vertical extent of particular surficial karst features. Karst map data are provided as ESRI® ArcInfo® coverages in geographic co-ordinate system NAD83, decimal degrees. The map data set consists of 8 coverages which highlight the distributions and occurrences of key karst features, including: cave types, sinkholes, disappearing streams and various forms of karren and place the variety of karst landforms within a regional stratigraphic-sedimentologic, geomorphologic and hydrogeologic context that enables the nature of key bedrock aquifers to be examined in a karst context. Data is also available in KML format for viewing in Google Earth®. Other information provided includes a user document and readme file which explains the GIS process, coverages and metadata, as well as a Getting Started section.

**The Intended Use and Purpose for Collecting the Data Set or Information Holding:** The data are useful for many purposes, including groundwater and surface water studies, other environmental studies, geotechnical investigations, land-use planning and mineral exploration. The objective of this product is to collect and disseminate geoscience information for Ontario.

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It is recommended that reference to the Content be made in the following form: Brunton, F.R. and Dodge, J.E.P. 2008. Karst of southern Ontario and Manitoulin Island; Ontario Geological Survey, Groundwater Resources Study 5. ISBN 978-1-4249-8376-6 (ZIP FILE); ISBN 978-1-4249-8375-9 (DVD)

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**Describe any Legislated or Legal Authority for Collecting the Data Set:** N/A

**Select the Level of Privacy for this Metadata Information:** Public

**Time Coverage:** Monday, December 8, 2008

**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:** None Planned

**Enter the retention schedule number:** 9999

**Retention period or description:**

**Keywords:**

AQUIFER  
BEDROCK TOPOGRAPHY  
DIGITAL DATA  
GEOLOGY  
GROUNDWATER

HYDROGEOLOGY  
KARST  
LIMESTONE  
MISCELLANEOUS RELEASE DATA  
MNDM  
MRD  
OGS  
PALEOZOIC BEDROCK GEOLOGY  
WATER LAKE STREAM

**Business Theme:**

GEOLOGICAL SURVEY  
GEOLOGY

**GEOGRAPHIC INFORMATION**

**Selected geographic type:**Bounding Box only

North Bounding Coordinate: 46° 00'

South Bounding Coordinate: 41° 43'

West Bounding Coordinate: -83° 07'

East Bounding Coordinate: -74° 20'

**Geographic Completeness:** 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:** Not Applicable

**DATA SOURCE INFORMATION**

**Data Source Type:** Includes Bibliographic Information

**Describe for the Source Data Contribution:** Product includes references to other sources of information

**CONTACT**

**GENERAL INFORMATION CONTACT:**

**Position:** Publication Sales Representative

**Language:** English

**Organization:** Ministry of Northern Development and Mines  
**Organization Sub-Unit:** Information and Marketing Services  
**Business Phone:** (705)670-5691

**FAX:** (705)670-5770

**Internet EMail Address:** [pubsales.ndm@ontario.ca](mailto:pubsales.ndm@ontario.ca)

**ADDRESS:**

**Street No:**933

**Street Name:**Ramsey Lake Road

**Municipality:**Sudbury

**Province/State:**ON Ontario

**Country:** CANADA

**Post Code:**P3E6B5

**Other Contact Method:** Toll Free Number (Canada & USA): 1-888-415-9845□x5691

**DISTRIBUTOR / PUBLISHER CONTACT:**

**Position:** Publication Sales Representative

**Language:** English

**Organization:** Ministry of Northern Development and Mines

**Organization Sub-Unit:** Information and Marketing Services

**Business Phone:** (705)670-5691

**FAX:** (705)670-5770

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**METADATA CUSTODIAN / CONTACT:**

**Position:** Publication Sales Representative

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#### **AUTHOR - ORIGINATOR / DATASET CUSTODIAN:**

**Position:** Publication Sales Representative

**Language:** English

**Organization:** Ministry of Northern Development and Mines

**Organization Sub-Unit:** Information and Marketing Services

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#### **METADATA**

**Date of this Metadata Description/Update:** November 17, 2008

**Date when Metadata Should be Reviewed:** December 31, 2012

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Telephone voice business 705 670-5691

Telephone fax 705 670-5770  
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