

MRD 128-REV METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding: Surficial Geology of Southern Ontario

Acronyms are Used to Identify the Data Set or Information Holding: MRD128-REV

Describe the Data Set or Information Holding:

Ontario Geological Survey (author)

This publication can be downloaded from GeologyOntario: see Distribution Information.

The Surficial Geology of Southern Ontario data set is a GIS based geological map that shows the distribution and characteristics of surficial units across Southern Ontario. The map has recently been revised and updated and replaces the map previously released on MRD 128. This new version now includes surficial geology information for the Bruce Peninsula and as well as NTS sheet 31D\9 covering the Burleigh Falls area. It illustrates surficial deposit types, material types, geological features (e.g. drumlins, eskers) and general bedrock types and outcrops. The surficial geology of southern Ontario consists largely of varying types and thicknesses of deposits emplaced primarily during the Quaternary period. These surficial deposits overly a bedrock terrain consisting mainly of Phanerozoic sedimentary rocks that overlie older Precambrian rocks of the Canadian Shield. The data used in generating the map was derived from Quaternary maps, primarily at a scale of 1:50 000, completed by the OGS and Geological Survey of Canada (GSC) for most of southern Ontario over the past 40 years. A total of 125 maps, 36 of which belong to the GSC, were used to create the seamless coverage. These original, tiled maps existed as either digital vector or raster format. The raster images were rubber sheeted to a geographic base and digitized (head's up) according to standards established for the project. Polygonal, point and line information was captured as part of the automation process. Coverages created include; sgu_poly, sgu_point, sgu_line, sgu_mor, sgu_misc, ogs_pits and sgu_anno. Attribute tables were built and populated with various geological related information. The original maps contained legends of varying detail and terminology, therefore, a single, standard legend suitable for a 1:50 000 compilation was constructed. This legend, created using Microsoft ®Access Database software, was used to translate all original map units to the new standard legend. Each of the map attribute tables was joined to the translation table using a unique key. A series of additional attributes, for instance, primary material and genesis were extracted from each map sheet and included in this table. By capturing these attributes a variety of derivative maps can be produced. For instance, for aggregate resource assessment studies a map of gravel resources can be derived from the primary material attribute.

The Intended Use and Purpose for Collecting the Data Set or Information Holding: To provide a detailed overview of the surficial geology of southern Ontario and associated attributes available to the land-use planning, consulting, aggregate/industrial mineral industry and development community as well as government geoscientists, resource scientists, conservation authorities, land-use planners and academic researchers. Also, the data set will be of value to the

broader scientific community, school teachers and general public who have an interest in Ontario's geological history and use of earth resources. The purpose of the "Miscellaneous Release Data" is to provide data sets and data products to determine attributes available for mineral exploration, land-use planning, consulting, mineral resource studies and baseline environmental studies. The information can be used for orienting, planning various types ground survey operations, drift exploration, resource development studies and to assist government geoscientists, conservation authorities and academic researchers. The objective of this product is to collect and disseminate geoscience information for Ontario.

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QUATERNARY SURFICIAL GEOLOGY
SAND DUNES
SAND PITS
SEDIMENT
TEACHING MATERIALS
TILL

Business Theme:

GEOLOGICAL SURVEY

GEOLOGY

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Coordinate: 46° 00'

South Bounding Coordinate: 42° 00'

West Bounding Coordinate: -83° 00'

East Bounding Coordinate: -74° 00'

Geographic Completeness: 100% Complete

MAPPING INFORMATION

Grid Coordinate System Used: Geographic (Lat, Long)

Map Projection: decimal degrees

Horizontal Geodetic Datum: NAD83

Vertical Geodetic Datum: Not Applicable

Position Accuracy of Features:

Horizontal: Approximate: +/- 250 m

Vertical: Not Applicable

DATA SOURCE INFORMATION

Data Source Type: Hard Copy Map

Describe for the Source Data Contribution: Used to produce the Seamless Quaternary coverage's for Southern Ontario.

Time Period Comments: Quaternary field mapping done over this time range. Data collected from 01/01/1950 to 06/10/2003

Name of the Source Data Set: OGS Hard copy Quaternary maps

the Acronyms Used to Identify the Source Data Set: (Preliminary, 2000, ARIP and OFR map series)

Describe the Data Source: OGS Hard copy Quaternary geology maps on file with the Mines Library, Sudbury Ontario, Canada. Complete map listing can be found within the Project Summary and Technical Document delivered with the MRD-128 dataset

Name of the Organization that Create the Source Data Set: Ontario Geological Survey, Ministry of Northern Development and Mines.

Data Source Type: Digital Map File

Describe for the Source Data Contribution: Used to produce the Seamless Quaternary coverage's for Southern Ontario.

Time Period Comments: Data collected from 01/01/1950 to 06/10/2003 Data collected from 01/01/1950 to 06/10/2003

Name of the Source Data Set: Geological Survey of Canada (GSC) Digital and Hardcopy Surficial Geology maps.

the Acronyms Used to Identify the Source Data Set:

Describe the Data Source: Complete map listing can be found within the Project Summary and Technical Document delivered with the MRD-128 dataset

Name of the Organization that Create the Source Data Set: Geological Survey of Canada (GSC)

Data Source Type: Digital Map File

Describe for the Source Data Contribution: Digital data sets used as base information for The Seamless Quaternary Geology. Base information used includes weeded or generalized lakes and roads coverage's as well as a Digital elevation model (DEM) used to create a raster (JPG) shaded relief image for Southern Ontario.

Time Period Comments: Data collected on 06/10/2003

Name of the Source Data Set: Base information for The Surficial Geology of Ontario

the Acronyms Used to Identify the Source Data Set:

Describe the Data Source: NRVIS Roads and Lake coverage were supplied by The Ministry of Natural Resources, Ontario, Ontario Geo Spatial Data Exchange. These vector coverage's were weeded and stripped of all attributes for release in digital format. The Digital elevation model (DEM) used to create the shaded relief was created and supplied by the Geomatics Service Center, Peterborough.

Name of the Organization that Create the Source Data Set: Ontario Ministry of Natural Resources

Data Source Type: Digital Map File

Describe for the Source Data Contribution: Upper tier municipal boundaries in vector format.

Time Period Comments: Data collected on 06/10/2003

Name of the Source Data Set: Municipal boundaries, upper tier, Southern Ontario

the Acronyms Used to Identify the Source Data Set:

Describe the Data Source: Upper tier municipal boundaries in vector format ArcInfo coverage.

Name of the Organization that Create the Source Data Set: Ontario Ministry of Municipal Affairs and Housing

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