

GDS 1080 Metadata

GENERAL INFORMATION

Official Name of the Data Set or Information Holding: Ontario Geophysical Surveys, Ground Gravity Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Central Simcoe County Area

Acronyms are Used to Identify the Data Set or Information Holding: GDS1080

Describe the Data Set or Information Holding:

Ontario Geological Survey (author)

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

A ground gravity survey was carried out as part of the Ontario Geological Survey's groundwater and three-dimensional subsurface mapping program in southern Ontario to map major surficial (Quaternary) deposits within the central Simcoe County area. This gravity survey will help define the bedrock topography and, in particular, identify buried, preglacial river valleys.

The survey area encompasses approximately 2000 square kilometres and is located mostly within the central Simcoe County area. The area extends from the Penetanguishene Peninsula to Coldwater, Barrie and Collingwood.

The central Simcoe County area ground gravity survey comprises data collected from 4380 land gravity stations located along 22 lines, by Abitibi Geophysics Inc., during the fall of 2014. The project was laid out along highways and roads (paved and gravel surfaces) within the survey area.

This geophysical data set includes ground gravity and elevation data—both raw and processed—in ASCII (.xyz) and Geosoft® (.gdb) file formats; grids (in ASCII (.gxf file formats) and Geosoft® (.grd file formats) of the gravity and elevation products; GeoTIFF image (.tif) of the residual Bouguer gravity grid; vector (.dxf) files of gravity station locations and residual Bouguer gravity contours; profiles of elevation, Bouguer gravity, regional gradient, and residual Bouguer gravity in portable document format (.pdf); and a survey report and documentation in portable document format (*.pdf).

These data accompany geophysical Maps 82770 and 82771, and are available separately from the digital data set.

Survey Parameters:

Survey type: ground gravity

Survey conducted by: Abitibi Geophysics Inc.

Date acquired: September 30 to November 5, 2014

Survey size: 2000 square kilometres

Number of stations: 4380
Number of lines: 22
Nominal station spacing: 100 m and 200 m
Gravimeters: Scintrex® CG-5 AUTOGRAV™
GPS elevation: Leica® Viva®

Additional information and metadata are found within a readme file provided with the product.

The Intended Use and Purpose for Collecting the Data Set or Information Holding: This ground gravity survey was carried out as part of the Ontario Geological Survey's groundwater and three-dimensional (3-D) mapping program in southern Ontario to map major surficial (Quaternary) deposits. This survey was designed to help define the bedrock topography and, in particular, identify buried, preglacial river valleys.

The objective of this product is to collect and disseminate geoscience information for Ontario.

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MNDM

OGS

ONTARIO GEOLOGICAL SURVEY

GRAVITY

GROUND GRAVITY

Business Theme:

GEOLOGICAL SURVEY

GEOLOGY

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 44° 52'

South Bounding Latitude: 44° 13'

West Bounding Longitude: -80° 19'

East Bounding Longitude: -79° 37'

Geographic Completeness: irregularly shaped study area - completeness not available

MAPPING INFORMATION

Grid Coordinate System Used: Universal Transverse Mercator
Map Projection: Transverse Mercator
Horizontal Geodetic Datum: NAD83
Vertical Datum: Not Applicable
Horizontal Position Accuracy of Features: Very Precise +/- 0.01 m
Vertical Position Accuracy of Features: 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

Data Source Type: Direct Field Collection
Time Period: survey conducted between September 30 and November 5, 2014

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METADATA

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