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Ontario Geological Survey 2015. Ontario geophysical surveys, ground gravity data, grid and point data (ASCII and Geosoft® formats) and vector data, central Simcoe County area; Ontario Geological Survey, Geophysical Data Set 1080.

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These data accompany the following publications (available separately):

Maps 82 770 and 82 771

Ground Gravity Survey, Residual of the Bouguer Anomaly, Central Simcoe County Area, scale 1:50 000

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Geophysical Data Set 1080

Ontario Geophysical Surveys, Ground Gravity Data, Grid and Point Data (ASCII and Geosoft® Formats) and Vector Data, Central Simcoe County Area

by Ontario Geological Survey

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 km² 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
- survey report and documentation in portable document format (*.pdf).

Survey parameters

Survey type:	Ground gravity
Survey conducted by:	Abitibi Geophysics Inc.
Date acquired:	September 30 th to November 5 th 2014
Survey size:	2000 km ²
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 [®]

These data accompany geophysical maps 82770 and 82771 which are available separately from the digital data set.