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Ontario Geological Survey 2021. Ontario airborne geophysical surveys, magnetic and gravimetric data, grid and profile data (ASCII and Geosoft® formats) and vector data, Nameigos Lake area; Ontario Geological Survey, Geophysical Data Set 1250.

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Ontario Geological Survey Maps 60 484 to 60 491

*Airborne Magnetic and Gravimetric Surveys, Colour-Filled Contours of the Residual Magnetic Field, Nameigos Lake Area, scale 1:20 000.*

Ontario Geological Survey Maps 60 492 to 60 499

*Airborne Magnetic and Gravimetric Surveys, Shaded Colour Image of the Second Vertical Derivative of the Residual Magnetic Field and Keating Correlation Coefficients, Nameigos Lake Area, scale 1:20 000.*

Ontario Geological Survey Maps 60 500 to 60 507

*Airborne Magnetic and Gravimetric Surveys, Colour-Filled Contours of the Terrain-Corrected Bouguer Gravity, Nameigos Lake Area, scale 1:20 000.*

Ontario Geological Survey Maps 60 508 to 60 515

*Airborne Magnetic and Gravimetric Surveys, Colour-Filled Contours of the First Vertical Derivative of the Terrain-Corrected Bouguer Gravity, Nameigos Lake Area, scale 1:20 000.*

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Geophysical Data Set 1250

**Ontario Airborne Geophysical Surveys, Magnetic and Gravimetric Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Nameigos Lake Area**

by Ontario Geological Survey

This publication can be downloaded from

[http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm\\_dir.asp?type=pub&id=GDS1250](http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=GDS1250)

Geophysical Data Set (GDS) 1250 includes the results of an airborne magnetic and gravity survey, totalling 14 383 line-kilometres, flown over the Nameigos Lake area in northeastern Ontario, approximately 25 km east of the town of White River, Ontario. The survey covered an area of 1310 km<sup>2</sup>. The survey was conducted in 2015 by Sander Geophysics Ltd., Ottawa, Ontario, for the Nuclear Waste Management Organization, Toronto, Ontario.

As part of an ongoing program to acquire high-quality, high-resolution airborne geophysical data across the Province of Ontario, the Ministry of Northern Development, Mines, Natural Resources and Forestry does, from time to time, acquire existing proprietary data. The geophysical data that comprise this survey were generously donated by Nuclear Waste Management Organization (NWMO). The survey was flown for NWMO under the original name of “Township of White River and Area”.

This geophysical data set includes

- 20 m × 20 m grids and GeoTIFF images of the total (residual) magnetic field data, the second vertical derivative of the residual magnetic field data, Bouguer gravimetric data and first vertical derivative of the terrain-corrected Bouguer gravimetric data
- airborne magnetic and gravimetric profile data—both raw and processed—in ASCII (.xyz) and Geosoft® (.gdb) file formats
- grids (in ASCII (.gxf) and Geosoft® (.grad) file formats) of the total (residual) magnetic field data, the second vertical derivative of the total (residual) magnetic field data, Bouguer gravimetric data and first vertical derivative of the terrain-corrected Bouguer gravimetric data
- database of Keating correlation coefficient anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats
- database of magnetic profile data in ASCII (.csv) and Geosoft® (.gdb) file formats
- database of gravimetric profile data in ASCII (.csv) and Geosoft® (.gdb) file formats
- vector (.dxf) files of flight path, Keating correlation coefficient anomalies, contours of the total (residual) magnetic intensity, the Bouguer gravity contours and the first vertical derivative of the Bouguer gravity contours
- survey report in portable document format (.pdf)

### Survey Parameters

Survey type:	magnetic and gravity
Dates flown:	July 31 to October 6, 2015
Survey conducted by:	Sander Geophysics Ltd., Ottawa, Ontario
Survey conducted for:	Nuclear Waste Management Organization, Toronto, Ontario
Survey size:	14 383 line-kilometres
Survey area:	1310 km <sup>2</sup>
Traverse-line orientation:	north-south
Traverse flight-line spacing:	100 m
Control-line orientation:	east-west
Control-line spacing:	500 m
Nominal aircraft terrain clearance:	80 m
Magnetic survey type:	single sensor
Magnetometer type:	cesium split beam
Magnetometer sensor location:	tail stinger
Magnetic sampling interval:	10 readings per second
EM survey type:	N/A
EM domain:	N/A
EM height:	N/A
VLF-EM:	none
Gamma-ray survey:	none
Gravity survey:	vertical component
Gravimeter type:	Sander Geophysics Ltd. AIRGrav
Gravity sampling interval:	10 readings per second

These data accompany geophysical Maps 60 484 to 60 515, which are available separately from the digital data set.