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Ontario Geological Survey 2016. Ontario airborne geophysical surveys, magnetic and gravimetric data, grid and profile data (ASCII and Geosoft® formats) and vector data, Pays Plat Lake area; Ontario Geological Survey, Geophysical Data Set 1249.

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These data accompany:

Ontario Geological Survey Maps 60 476 and 60 477

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

Ontario Geological Survey Maps 60 478 and 60 479

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

Ontario Geological Survey Maps 60 480 and 60 481

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

Ontario Geological Survey Maps 60 482 and 60 483

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

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Users of OGS products are encouraged to contact those Aboriginal communities whose traditional territories may be located in the mineral exploration area to discuss their project.



Geophysical Data Set 1249

Ontario Airborne Geophysical Surveys, Magnetic and Gravimetric Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Pays Plat 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=GDS1249

Geophysical Data Set (GDS) 1249 includes the results of an airborne magnetic and gravity survey, totalling 3432 line-kilometres, flown in the Pays Plat Lake area, approximately 15 km north of Schreiber, Ontario. The survey covered an area of approximately 266 km². The survey was conducted in 2014 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 and Mines (MNDM) 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 “Schreiber Block”.

This geophysical data set includes

- 20 m × 20 m grids and GeoTIFF images of the 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® (.grd) file formats) of the 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
- database of Keating correlation coefficient anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats
- database of gravimetric profile data in ASCII (.xyz) and Geosoft® (.gdb) file formats
- vector (*.dxf) files of flight path, Keating correlation coefficient anomalies, contours of the total (residual) magnetic intensity and the Bouguer gravity contours
- survey report in portable document format (.pdf)

Survey Parameters

Survey type:	magnetic and gravity
Dates flown:	April 12 to 24, 2014
Survey conducted by:	Sander Geophysics Ltd., Ottawa, Ontario
Survey conducted for:	Nuclear Waste Management Organization, Toronto, Ontario
Survey size:	3432 line-kilometres
Survey area:	266 km ²
Traverse-line orientation:	east-west
Traverse flight-line spacing:	100 m
Control-line orientation:	north-south
Control-line spacing:	500 m
Nominal aircraft terrain clearance:	80 m
Magnetic survey 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 type:	Sander Geophysics Ltd. AIRGrav
Gravity initial sample interval:	128 readings per second
Gravity final sample interval:	2 readings per second
Gravity noise level:	<0.2 mGal, with half sine wave resolution of 1.8 to 2 km

These data accompany geophysical Maps 60476 to 60483, which are available separately from the digital data set.