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Ontario Geological Survey 2015. Ontario airborne geophysical surveys, magnetic data, grid and profile data (ASCII and Geosoft® formats) and vector data, Dog Lake and East Nipigon areas—Purchased data; Ontario Geological Survey, Geophysical Data Set 1246.

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These data accompany the following publications (available separately):

Ontario Geological Survey Maps 60 444 to 60 448

Airborne Magnetic Survey, Colour-Filled Contours of the Residual Magnetic Field, Dog Lake and East Nipigon Areas—Purchased Data, scale 1:50 000.

Ontario Geological Survey Maps 60 449 to 60 453

Airborne Magnetic Survey, Shaded Colour Image of the Second Vertical Derivative of the Residual Magnetic Field and Keating Coefficients, Dog Lake and East Nipigon Areas—Purchased Data, scale 1:50 000.

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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 1246

Ontario Airborne Geophysical Surveys, Magnetic Data, Grid and Profile Data (ASCII and Geosoft® formats) and Vector Data, Dog Lake and East Nipigon Areas—Purchased Data

by Ontario Geological Survey

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=GDS1246

Geophysical Data Set (GDS) 1246 contains the results of an airborne magnetic survey, totalling 16 357 line-kilometres, flown over 2 blocks near Dog Lake and East Nipigon, that lie north to northeast of Thunder Bay in northern Ontario. The survey covers an area approximately 3770 km² and was flown by Terraquest Ltd., Markham, Ontario.

These data accompany geophysical maps 60 444 to 60 453 (available separately from the digital data set).

This geophysical data set includes

- airborne magnetic profile data—both raw and processed—in ASCII (.xyz) and Geosoft® (.gdb) file formats
- 20 m × 20 m grids (in ASCII (.gxf) and Geosoft® (.grd) file formats) of magnetic and derivative data for Dog Lake
- 40 m × 40 m grids (in ASCII (.gxf) and Geosoft® (.grd) file formats) of magnetic and derivative data for East Nipigon
- database of Keating correlation coefficient anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats
- GeoTIFF (.tif) images of magnetic grids
- vector (.dxf) files of flight path, Keating anomalies and contours of the residual magnetic field
- the survey report in portable document format (.pdf)

Survey Parameters:

Survey type: magnetic gradiometer

Survey conducted by: Terraquest Ltd., Markham, Ontario

Date flown: May 29 to July 12, 2010

Survey area: 3770 km²

Survey size: 16 357 line-kilometres

Flight-line spacing: Dog Lake 100 and 200 m/East Nipigon 200 and 400 m

Control-line spacing: 2000 m

Aircraft nominal terrain clearance: 70 m

Magnetic survey type: horizontal gradiometer

Magnetic sampling interval: 20 readings per second

EM survey type: none

EM domain: N/A

EM height: N/A

VLF-EM: none

Gamma-ray survey: none