

# GDS1246 Metadata

## GENERAL INFORMATION

**Official Name of the Data Set or Information Holding:** 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

**Acronyms are Used to Identify the Data Set or Information Holding:** GDS1246

**Describe the Data Set or Information Holding:**

Ontario Geological Survey (author)

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

Geophysical Data Set (GDS) 1246 contains the results of an airborne magnetic survey, totalling 16,357 line-kilometres 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 square kilometres and was flown by Terraquest Ltd., Markham, Ontario.

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

These data accompany geophysical Maps 60444 to 60453, which are available separately from the digital data set.

### **Survey Parameters:**

Survey type: magnetic gradiometer

Date flown: May 29 to July 12, 2010

Survey conducted by: Terraquest Ltd., Markham, Ontario

Survey area: 3770 square kilometres

Survey size: 16,357 line-kilometres

Flight-line spacing: Dog Lake area: 100 m and 200 m; East Nipigon area: 200 m 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

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:** 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, issue Requests For Data (RFD) in order to purchase existing proprietary data held by mining companies. Purchase of existing data complements new surveys commissioned by the MNDM.

The purchase of data is attractive because of the low cost of acquisition relative to flying new surveys. The money used to purchase the data can be reinvested in exploration. The data are assessed for quality prior to purchase and are reprocessed to meet the common formats and standards of other Ontario geophysical data. Once reprocessed, these data are then made public.

## CONSTRAINTS FOR USING THE DATA SET

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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.

ISBN 978-1-4606-5793-5 (DVD) ISBN 978-1-4606-5792-8 (zip file)

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**Describe any Legislated or Legal Authority for Collecting the Data Set:** N/A

**Select the Level of Privacy for this Metadata Information:** Internal

**Time Coverage:** June 2, 2015

**Time Coverage Comments:** Date of Publication.

**Enter or Select the Current Status of the Data Set:** Complete

**Enter or Select the Frequency with which Changes or Additions are Made to the Data Set:** None  
Planned

**Enter the retention schedule number:** 9999

**Retention period or description:** PT

**Keywords:**

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

MNDM

OGS

ONTARIO GEOLOGICAL SURVEY

AEROMAGNETIC

AIRBORNE EM AND MAG (GRADIENT)

AIRBORNE MAG (RESIDUAL)

AIRBORNE MAG (TOTAL)

GEOPHYSICAL

**Business Theme:**

GEOLOGICAL SURVEY

GEOLOGY

## GEOGRAPHIC INFORMATION

**Selected geographic type:** Bounding Box only

North Bounding Latitude: 49° 40'

South Bounding Latitude: 48° 42'

West Bounding Longitude: -89° 51'

East Bounding Longitude: -87° 04'

**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:** +/- 3 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

**Source Data Set Description:** Data acquisition and data compilation by Terraquest Ltd, Markham, Ontario

**Time Period:** survey conducted May 29 to July 12, 2010

**Data Source Type:** Digital Map File

**Source Contribution:** Base map information derived from the Land Information Ontario Data Warehouse, Land Information Ontario, Ministry of Natural Resources and Forestry, scale 1:50 000.

**Name of Source Data Set:** Natural Resources and Values Information System

**Acronym of Source Data Set:** NRVIS

**Source Data Set Description:** NRVIS is a GIS-based system for managing the storage of the Ministry of Natural Resources and Forestry (MNRF) digital land-related information in a standardized manner.

**Organization that Created Source Data Set:** Ministry of Natural Resources and Forestry (Ontario)

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**METADATA**

**Date of this Metadata Description/Update:** May 27, 2015  
**Date when Metadata Should be Reviewed:** December 31, 2017

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