

# GEOPHYSICAL DATA SET (GDS) 1084B METADATA

## GENERAL INFORMATION

**Official Name of the Data Set or Information Holding:** Ontario Airborne Geophysical Surveys, Magnetic Gradiometer and Gamma-Ray Spectrometric Data, Grid and Profile Data (Geosoft® Format) and Vector Data, Lac Seul East Area

**Acronyms are Used to Identify the Data Set or Information Holding:** GDS1084B

**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) 1084b comprises the results of an airborne magnetic and gamma-ray spectrometer survey, totalling 54,603 line-kilometres, flown over the eastern portion of Lac Seul and adjacent areas in northwestern Ontario. The survey covers an area approximately 9835 square kilometres and was flown by Terraquest Ltd. (Markham, Ontario).

This geophysical data set includes airborne magnetic and gamma-ray spectrometric profile data—both raw and processed—in Geosoft® (.gdb) file format; 20 m × 20 m grids (in Geosoft® (.grd) file format) of the magnetic and gamma-ray spectrometric data; databases of Keating correlation coefficient anomalies in Geosoft® (.gdb) file format; GeoTIFF (.tif) images of magnetic and gamma-ray spectrometric grids; vector (.dxf) files of flight path, Keating anomalies and contours of the residual magnetic field; and a survey report and supporting documents in portable document format (.pdf).

These data accompany geophysical Maps 82886 to 82918, which are available separately from the digital data set.

### **Survey Parameters:**

Survey type: magnetic and gamma-ray spectrometer

Date flown: July 28 to November 2, 2016

Survey conducted by: Terraquest Ltd., Markham, Ontario

Survey size: 54,603 line-kilometres

Survey area: 9835 square kilometres

Flight-line spacing: 200 m

Control-line spacing: 2000 m

Nominal aircraft terrain clearance: 100 m

Magnetic survey type: horizontal gradiometer

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: gamma-ray spectrometric

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:**

Airborne geophysics is an integral part and core function of the Ontario Geological Survey's (OGS) geoscience activities. This magnetic gradiometer and gamma-ray spectrometric survey was carried out as part of the Ontario Geological Survey's Precambrian bedrock mapping program to provide high-quality and high-resolution geophysical data to assist in mapping the bedrock geology of the area.

The objective of this product is to collect and disseminate geoscience information for Ontario.

### **CONSTRAINTS FOR USING THE DATA SET**

#### **Describe any Restrictions and Legal Prerequisites for Accessing the Data Set (Data Privacy/Security):**

Abbreviated Terms of Use.

'Content' and/or 'Electronic Information Product' (EIP) and its Content: This Content and/or EIP and its Content is offered by the Province of Ontario's Ministry of Northern Development and Mines (MNDM) as a public service, on an 'as-is' basis.

Recommendations and statements of opinions expressed are those of the author or authors and are not to be construed as statement of government policy. You are solely responsible for your use of the Content and/or EIP and its Content. You should not rely on the Content for legal advice nor as authoritative in your particular circumstances.

Users should verify the accuracy and applicability of any Content before acting on it.

MNDM does not guarantee, or make any warranty express or implied, that the Content is current, accurate, complete or reliable or that the EIP is free from viruses or other harmful components. MNDM is not responsible for any damage however caused, which results, directly or indirectly, from your use of the Content and/or the EIP and its Content. MNDM assumes no legal liability or responsibility for the Content and/or the EIP and its Content whatsoever.

**Copyright:** Canadian and international intellectual property laws protect the Content and the EIP and its Content. Unless otherwise indicated, copyright is held by the Queen's Printer for Ontario.

It is recommended that reference to the Content be made in the following form:

Ontario Geological Survey 2017. Ontario airborne geophysical surveys, magnetic gradiometer and gamma-ray spectrometric data, grid and profile data (Geosoft® format) and vector data, Lac Seul East area; Ontario Geological Survey, Geophysical Data Set 1084b.

ISBN 978-1-4606-9797-9 (DVD) ISBN 978-1-4606-9798-6 (zip file)

**Use and Reproduction of Content:** The Content and/or the EIP and its Content may be used and reproduced only in accordance with applicable intellectual property laws. Non-commercial use of unsubstantial excerpts of the Content is permitted provided that appropriate credit is given and Crown copyright is acknowledged. Any substantial reproduction of the Content or any commercial use of all or part of the Content is prohibited without the prior written permission of MNDM. Substantial reproduction includes the reproduction of any illustration or figure, such as, but not limited to graphs, charts and maps. Commercial use includes commercial distribution of the Content, the reproduction of multiple copies of the Content for any purpose whether or not commercial, use of the Content in commercial publications, and the creation of value-added products using the Content.

The complete and entire Terms of Use Agreement may be viewed at [http://www.geologyontario.mndm.gov.on.ca/gosportal/Terms\\_of\\_Use.pdf](http://www.geologyontario.mndm.gov.on.ca/gosportal/Terms_of_Use.pdf)

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

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

**Time Coverage:** 04 April 2017

**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:** Not Planned

**Enter the retention schedule number:** 9999

**Retention period or description:** PT

**Keywords:**

Geological Survey

Geology

Ministry of Northern Development and Mines

MNDM

Ontario Geological Survey

OGS

Geophysical

Aeromagnetic

Airborne Gamma Ray

Airborne Magnetic (Total)

Airborne Magnetic (Residual)  
Airborne Magnetic (Gradient)

**Business Theme:**

Geological Survey  
Geology

**GEOGRAPHIC INFORMATION**

**Selected geographic type:** Bounding Box only

North Bounding Latitude: 50° 54'  
South Bounding Latitude: 49° 54'  
West Bounding Longitude: -92° 37'  
East Bounding Longitude: -90° 39'

**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:** +/- 10 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:** Survey flown from July 28 to November 2, 2016, by Terraquest Ltd. (Markham, Ontario)

**CONTACT INFORMATION**

**GENERAL CONTACT:**

**Position:** Publication Sales Representative

**Language:** English

**Organization:** Ministry of Northern Development and Mines

**Organization Sub-Unit:** Ontario Geological Survey

**Business Phone:** (705)670-5691

**FAX:** (705)670-5770

**Internet Email Address:** [pubsales.ndm@ontario.ca](mailto:pubsales.ndm@ontario.ca)

**ADDRESS:****Street No:** 933**Street Name:** Ramsey Lake Road**Municipality:** Sudbury**Province/State:** ON Ontario**Country:** CANADA**Post Code:** P3E6B5**Other Contact Method:** Toll Free Number (Canada & USA): 1-888-415-9845 x5691**DISTRIBUTOR / PUBLISHER CONTACT:****Position:** Publication Sales Representative**Language:** English**Organization:** Ministry of Northern Development and Mines**Organization Sub-Unit:** Ontario Geological Survey**Business Phone:** (705)670-5691**FAX:** (705)670-5770**Internet Email Address:** [pubsales.ndm@ontario.ca](mailto:pubsales.ndm@ontario.ca)**ADDRESS:****Street No:** 933**Street Name:** Ramsey Lake Road**Municipality:** Sudbury**Province/State:** ON Ontario**Country:** CANADA**Post Code:** P3E6B5**Other Contact Method:** Toll Free Number (Canada & USA): 1-888-415-9845 x5691**METADATA CUSTODIAN / CONTACT:****Position:** Publication Sales Representative**Language:** English**Organization:** Ministry of Northern Development and Mines**Organization Sub-Unit:** Ontario Geological Survey**Business Phone:** (705)670-5691**FAX:** (705)670-5770**Internet Email Address:** [pubsales.ndm@ontario.ca](mailto:pubsales.ndm@ontario.ca)**ADDRESS:****Street No:** 933**Street Name:** Ramsey Lake Road**Municipality:** Sudbury**Province/State:** ON Ontario**Country:** CANADA**Post Code:** P3E6B5**Other Contact Method:** Toll Free Number (Canada & USA): 1-888-415-9845 x5691

## **AUTHOR - ORIGINATOR / DATASET CUSTODIAN:**

**Position:** Publication Sales Representative

**Language:** English

**Organization:** Ministry of Northern Development and Mines

**Organization Sub-Unit:** Ontario Geological Survey

**Business Phone:** (705)670-5691

**FAX:** (705)670-5770

**Internet Email Address:** [pubsales.ndm@ontario.ca](mailto:pubsales.ndm@ontario.ca)

### **ADDRESS:**

**Street No:** 933

**Street Name:** Ramsey Lake Road

**Municipality:** Sudbury

**Province/State:** ON Ontario

**Country:** CANADA

**Post Code:** P3E6B5

**Other Contact Method:** Toll Free Number (Canada & USA): 1-888-415-9845 x5691

## **METADATA**

**Date of this Metadata Description/Update:** March 28, 2017

**Date when Metadata Should be Reviewed:** December 31, 2017

## **DISTRIBUTION INFORMATION**

### **General Distribution Information:**

This publication can be downloaded from

[http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm\\_dir.asp?type=pub&id=GDS1084b](http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=GDS1084b)

or ordered from our office at:

Ministry of Northern Development and Mines Publication Sales,

933 Ramsey Lake Road, Sudbury Ontario, CANADA P3E 6B5

Telephone voice business 705 670-5691; Telephone fax 705 670-5770

Toll Free in Canada and United States 1-888-415-9847

E-mail: [pubsales.ndm@ontario.ca](mailto:pubsales.ndm@ontario.ca)

Ordering by mail, fax or E-mail: please call ahead to confirm shipping charge.

### **Applicable Distribution Fees and Payment Options:**

See the Distribution Contact listing and contact the Ministry of Northern Development and Mines Publication Sales Office regarding the most recent pricing.

**The Languages in which Data are Distributed:** English