

GDS1076 METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding: Ontario Airborne Geophysical Surveys, Magnetic and Electromagnetic Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Nestor Falls Area

Acronyms are Used to Identify the Data Set or Information Holding: GDS1076

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) 1076 includes the results of an airborne magnetic and electromagnetic survey, totalling 10,271 line-kilometres, flown over the Nestor Falls area of northwestern Ontario and covers an area of approximately 1785 square kilometres. The magnetic and electromagnetic survey was flown by Geotech Ltd. for the Ontario Geological Survey.

This geophysical data set includes magnetic and electromagnetic profile data—both raw and processed—in ASCII (.xyz) and Geosoft® (.gdb) file formats; 40 m × 40 m grids (in ASCII (.gxf) and Geosoft® (.grd) file formats) of the magnetic and electromagnetic data; database of picked electromagnetic anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats; database of Keating correlation coefficient anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats; GeoTIFF (.tif) images of magnetic and electromagnetic grids; vector (.dxf) files of flight path, EM anomalies, Keating anomalies and contours of the residual magnetic field, EM decay constant and apparent conductivity; and the survey report in portable document format (.pdf).

These data accompany geophysical Maps 82634 to 82650, which are available separately from the digital data set.

Survey Parameters:

Survey type: time domain EM and magnetometer

Survey conducted by: Geotech Ltd., Aurora, Ontario

Date flown: January 26 to March 1, 2014

Survey area: 1785 square kilometres

Survey size: 10,271 line-kilometres

Nominal flight-line spacing: 200 m

Control-line spacing: 1500 m

Aircraft mean terrain clearance: 92 m

Magnetic survey type: cesium vapour

Magnetometer height: 59 m

Magnetic sampling interval: 10 readings per second

EM survey type: VTEM® Plus

EM domain: time domain

EM height: 45 m

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:

The Nestor Falls survey was flown to provide high-quality, high-resolution magnetic and electromagnetic data to support geological mapping of the area.

Airborne geophysics is an integral part and core function of the Ontario Geological Survey's (OGS) geoscience activities. This airborne magnetic and electromagnetic survey was carried out as part of the Ontario Geological Survey's Precambrian bedrock mapping program. The survey was designed to help better define geological features, assist bedrock mapping and help to identify targets of potential economic interest.

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

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Ontario Geological Survey 2014. Ontario airborne geophysical surveys, magnetic and electromagnetic data, grid and profile data (ASCII and Geosoft® formats) and vector data, Nestor Falls area; Ontario Geological Survey, Geophysical Data Set 1076.

ISBN 978-1-4606-4520-8 (DVD) ISBN 978-1-4606-4519-2 (zip file)

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Select the Level of Privacy for this Metadata Information: Public

Time Coverage: Wednesday, September 17, 2014

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
AIRBORNE EM AND MAG (TOTAL FIELD)
GEOPHYSICAL

Business Theme:

GEOLOGICAL SURVEY
GEOLOGY

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 49° 32'

South Bounding Latitude: 48° 58'

West Bounding Longitude: -94° 05'

East Bounding Longitude: -93° 14'

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

Time Period: survey conducted from January 26 to March 1, 2014

Data Source Type: Digital Map File

Source Contribution: Base map information derived from the Ontario Information Warehouse, Land Information Ontario, Ontario Ministry of Natural Resources, 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 Ontario Ministry of Natural Resources (MNR) digital land-related information in a standardized manner.

Organization that Created Source Data Set: Ontario Ministry of Natural Resources

CONTACT

GENERAL INFORMATION 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.gov.on.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

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AUTHOR - ORIGINATOR / DATASET CUSTODIAN:

Position: Publication Sales Representative

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METADATA

Date of this Metadata Description/Update: September 8, 2014

Date when Metadata Should be Reviewed: December 31, 2016

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