GDS 1070a 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, South Simcoe County Area

Acronyms are Used to Identify the Data Set or Information Holding: GDS1070a

Describe the Data Set or Information Holding:

Ontario Geological Survey (author)

Geophysical Data Set (GDS) 1070a includes the results of an airborne magnetic and AeroTEM(TM) time-domain helicopter electromagnetic (HEM) survey flown in the southern part of Simcoe County in southwestern Ontario. The geophysical survey was flown by Aeroquest Surveys, (Mississauga, Ontario) for the Ontario Geological Survey in March 2012. The total number of line kilometres of this survey is 1898. GDS 1070a is contained on a single DVD.

This geophysical data set includes 40 m x 40 m grids and GeoTIFF images of magnetic and electromagnetic data; airborne magnetic and electromagnetic data—both raw and processed—in ASCII and Geosoft(R) (.gdb) file formats; grids (in ASCII and Geosoft(R) (.grd) file formats) of the magnetic and electromagnetic products; geoTIFF images of magnetic and EM decay constant grids; vector (.dxf) files of flight path, EM decay constant, apparent conductance and magnetic contours; constrained lateral EM inversion databases in ASCII and Geosoft(R) (.gdb) file formats; sections of electrical conductance in TIF format; and the survey and inversion processing reports in portable document format (.pdf).

Survey Parameters:

Date flown: 2012 Line kilometres: 1898 Line spacing: 200 m Magnetic survey type: single sensor total field Magnetometer height: 80 m EM survey type: AeroTEM IV EM domain: time EM height: 44 m VLF-EM: none Gamma-ray survey: none

GDS 1070a is released in association with GDS 1070b, and is available separately. These

data accompany the following geophysical maps: Map 82580 to 82587.

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. The Ministry's objective is to evaluate the Time-Domain electromagnetic (TDEM) method for delineating subsurface sand and gravel aquifers, some of which are associated with buried bedrock valleys in southwestern Ontario as part of its groundwater mapping activities. The area chosen was selected as a) it is within an on-going aquifer mapping project area, b) there is relatively good subsurface information as a result of recent drilling and c) it includes a variety of bedrock and surficial materials.The objective of this product is to collect and disseminate geoscience information for Ontario.

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.

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It is recommended that reference to the Content be made in the following form: Ontario Geological Survey 2012. Ontario airborne geophysical surveys, magnetic and electromagnetic data, grid and profile data (ASCII and Geosoft(R) formats) and vector data, south Simcoe County area; Ontario Geological Survey, Geophysical Data Set 1070a.

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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: Wednesday October 10, 2012 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:PAT Keywords:

MINISTRY OF NORTHERN DEVELOPMENT AND MINES MNDM OGS ONTARIO GEOLOGICAL SURVEY AEROMAGNETIC APPARENT CONDUCTANCE APPARENT CONDUCTIVITY APPARENT RESISTIVITY AIRBORNE EM AIRBORNE EM AND MAG (TOTAL FIELD)

Business Theme: GEOLOGICAL SURVEY GEOLOGY

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 44° 14' South Bounding Latitude: 43° 59' West Bounding Longitude: -79° 51' East Bounding Longitude: -79° 38' Geographic Completeteness: irregularly shaped study area - completeness not available

MAPPING INFORMATION

Grid Coordinate System Used: Map Projection: Horizontal Geodetic Datum: Vertical Datum: Horizontal Position Accuracy of Features: Vertical Position Accuracy of Features:

Universal Transverse Mercator Transverse Mercator NAD83 Not Applicable +/- 10 m 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 Comments:** survey was flown by Aeroquest Surveys for the OGS and completed between March 13 and 18, 2012.

CONTACT

GENERAL INFORMATION CONTACT:

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METADATA

Date of this Metadata Description/Update: September 21, 2012 **Date when Metadata Should be Reviewed:** December 31, 2016

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