

MRD317 METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding: Chatham Sag Aeromagnetic Lineament Study

Acronyms are Used to Identify the Data Set or Information Holding: MRD317

Describe the Data Set or Information Holding:

Ontario Geological Survey (author)

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

This release contains a lineament analysis of aeromagnetic data in the Chatham area of southwestern Ontario. In 2009, the Ontario Geological Survey conducted an aeromagnetic survey (Geophysical Data Set 1065) over the Chatham Sag, which is a depression on the ridge between the Michigan and Appalachian basins. It is within this depression that the thickest Paleozoic strata in southern Ontario have accumulated. Important regional faults (Dawn, Electric) have previously been identified in the study area. In 2013, a lineament analysis of the aeromagnetic survey was contracted to TerraNotes Ltd. The structures identified through the analysis by TerraNotes Ltd. were recognized solely based on the aeromagnetic survey and, therefore, were determined to be associated with the Grenvillian basement. The products found in this release were all generated by TerraNotes Limited. This release includes a report in portable document format (.pdf); 21 grids in Geosoft® binary GDB format (.grd, .grd.gi files); 140 images (4 .tif and 136 .png files); 25 shapefiles (.cpg, .dbf, .prj, .sbn, .sbx, .shp, .shx files); and 4 structural indices (comma-delimited ASCII (.csv) files) used in the Euler deconvolution of the magnetic data to obtain apparent depths to magnetic sources. The projection for all grids and shapefiles is in Universal Transverse Mercator (UTM) Zone 17 using North American Datum 1983 (NAD83).

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 publication reports on part of a methodology project, which is undertaken to determine the utility of aeromagnetic data for identifying Precambrian basement structures some of which may penetrate into the overlying Paleozoic sedimentary rocks.

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 whatsoever.

Describe any Constraints for Using the Data Set:

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 2014. Chatham Sag aeromagnetic lineament study; Ontario Geological Survey, Miscellaneous Release—Data 317.
ISBN 978-1-4606-4599-4 (DVD) ISBN 978-1-4606-4598-7 (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.mndmf.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: Tuesday October 7, 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:MGE

Keywords:

MINISTRY OF NORTHERN DEVELOPMENT AND MINES
MNDM
OGS
ONTARIO GEOLOGICAL SURVEY
AEROMAGNETIC
PALEOZOIC BEDROCK GEOLOGY
PRECAMBRIAN BEDROCK GEOLOGY
PROTEROZOIC BEDROCK GEOLOGY
SEDIMENTARY ROCKS
STRUCTURAL

Business Theme:

GEOLOGICAL SURVEY
GEOLOGY

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 43° 21'

South Bounding Latitude: 41° 50'

West Bounding Longitude: -81° 39'

East Bounding Longitude: -81° 09'

Geographic Completeness: irregularly shaped study area – 100% complete

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: Other compiled dataset

Source Contribution: source of data used in this study.

Time Period: survey conducted from February 16 to March 20, 2009

Name of Source Data Set: Ontario Airborne Geophysical Surveys, Magnetic Data, Grid

and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Chatham Area

Acronym of Source Data Set: GDS1065

Source Data Set Description: Geophysical Data Set (GDS) 1065 includes results from a 24,604 line-kilometre (with 500 m line-spacing) fixed-wing aeromagnetic survey flown in the Chatham area of southwestern Ontario. The survey was flown in 2009 by Goldak Airborne Surveys for the Ontario Geological Survey using a horizontal magnetic gradiometer at a height of 200 m. The data include i) grids (ASCII and Geosoft® formats) and GeoTIFF images of magnetic and digital elevation data; ii) magnetic profile data (ASCII CSV and Geosoft® GDB formats), both raw and processed; iii) vector (DXF) files of flight path and contours of the residual magnetic field; as well as iv) Microsoft® Word and portable document format (PDF) report files.

Organization that Created Source Data Set: Ontario Geological Survey

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

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

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.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

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.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

METADATA

Date of this Metadata Description/Update: September 25, 2014

Date when Metadata Should be Reviewed: December 31, 2016

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=MRD317

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

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 which are Data Distributed in: English