

GEOPHYSICAL DATA SET (GDS) 1083A 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 (ASCII Format) and Vector Data, Separation Lake Area

Acronyms are Used to Identify the Data Set or Information Holding: GDS1083A

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) 1083a comprises the results of an airborne magnetic and gamma-ray spectrometer survey, totalling 117,487 line-kilometres, flown over the Separation Lake area of northwestern Ontario. The survey covers an area approximately 21,199 square kilometres and was flown by Goldak Airborne Surveys (Saskatoon, Saskatchewan).

This geophysical data set includes airborne magnetic and gamma-ray spectrometric profile data—both raw and processed—in ASCII (.xyz) file format; 40 m × 40 m grids (in ASCII (.gxf) file format) of the magnetic and gamma-ray spectrometric data; databases of Keating correlation coefficient anomalies in ASCII (.csv) 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 82838 to 82885, which are available separately from the digital data set.

Survey Parameters:

Survey type: magnetic and gamma-ray spectrometer

Dates flown: July 14 to September 23, 2016

Survey conducted by: Goldak Airborne Surveys, Saskatoon, Saskatchewan

Survey size: 117,487 line-kilometres

Survey area: 21,199 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.

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Time Coverage Comments: Date of Publication.

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Enter or Select the Frequency with which Changes or Additions are Made to the Data Set: Not Planned

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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: 51° 03'
South Bounding Latitude: 49° 45'
West Bounding Longitude: -95° 13'
East Bounding Longitude: -92° 34'

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 14 to September 23, 2016, by Goldak Airborne Surveys (Saskatoon, Saskatchewan)

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

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**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**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

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METADATA

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