

GDS 1088 METADATA

GENERAL INFORMATION

Title

Ontario Airborne Geophysical Surveys, Magnetic Gradiometer Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Sturgeon River Area

Alternate Title

GDS1088

Author(s)

Ontario Geological Survey

Date of Publication

September 29, 2020

Abstract

Geophysical Data Set (GDS) 1088 includes the results of an airborne magnetic gradiometer survey, totalling 51,101 line-kilometres, flown over the Sturgeon River area of northeastern Ontario. The survey covers an area approximately 9231 square kilometres, and was flown by Sander Geophysics Ltd. (Ottawa, Ontario). This geophysical data set includes 1) airborne magnetic profile data—both raw and processed—in ASCII (.xyz) and Geosoft® (.gdb) file formats; 2) 40 m × 40 m grids in ASCII (.gxf) and Geosoft® (.grd) file formats of the magnetic profile data and derivatives; 3) database of Keating correlation coefficient anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats; 4) GeoTIFF (.tif) images of magnetic grids; 5) vector (.dxf) files of flight path, magnetic contours and Keating anomalies; and 6) the survey report in portable document format (.pdf).

Survey Parameters:

Survey type: Magnetic gradiometer;
Survey date flown: November 8, 2019 to February 4, 2020;
Survey area: 9231 square kilometres;
Survey size: 51,101 line-kilometres;
Flight-line spacing: 200 m;
Control-line spacing: 2000 m;
Aircraft nominal 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: N/A;
Gamma-ray survey: N/A.

These data accompany geophysical Maps 83 014 to 83 025, which are available separately from the digital data set.

The following publications are associated with this publication: M83014, M83015, M83016, M83017, M83019, M83020, M83021, M83022, M83023, M83024, M83025

Additional information can be found within a readme file provided with the product.

Purpose or Objective

Airborne geophysics is an integral part and core function of the Ontario Geological Survey's (OGS) geoscience activities. This magnetic gradiometer 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.

Keywords

Geological Survey
Geology
Ministry of Energy, Northern Development and Mines
ENDM
Ministry of Northern Development and Mines
MNDM
Ontario Geological Survey
OGS
Geophysical Data Set
GDS
Geophysical
Geophysics, General
Airborne Magnetic (Total)
Airborne Magnetic (Residual)
Airborne Magnetic (Gradient)
High Resolution Total Field Magnetism
Magnetic Gradiometer Data
Residual Magnetic Field
Residual Total Magnetic Field

Business Themes

Geological Survey
Geology

GEOGRAPHIC INFORMATION

Geographic bounding box (decimal degrees)

North bounding latitude:	47.5109°
West bounding longitude:	-81.4699°
East bounding longitude:	-79.8687°
South bounding latitude:	46.7268°

Description of 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:	Precise ± 5 m
Vertical Position Accuracy of Features:	Precise ± 5 m

DATA SOURCE INFORMATION

Data Source Type and Description

Includes Bibliographic Information: Product includes references to other sources of information

Data Source Type and Description

Direct Field Collection: Survey conducted from November 8, 2019 to February 4, 2020 by Sander Geophysics Ltd. (Ottawa, Ontario).

Current Status of the Data: Complete

Frequency of Changes or Additions to be made to the Data: Not Planned

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