

GDS1077 METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding: Ontario Airborne Geophysical Surveys, Magnetic and Gamma-Ray Spectrometric Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Mahon Lake and Flatrock Lake Areas

Acronyms are Used to Identify the Data Set or Information Holding: GDS1077

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) 1077 presents the results of an airborne magnetic and gamma-ray spectrometric survey, totalling 33,085 line-kilometres, flown in the Mahon Lake and Flatrock Lake areas west of Thunder Bay, northwestern Ontario. The survey was flown by CGG Canada Services, Ottawa, Ontario.

This geophysical data set includes airborne magnetic and gamma-ray spectrometric 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 gamma-ray spectrometric profile data; database of Keating correlation coefficient anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats; GeoTIFF (.tif) images of magnetic and gamma-ray grids; vector (.dxf) files of flight path, Keating anomalies and contours of the residual magnetic field; and the survey report in portable document format (.pdf).

These data accompany geophysical Maps 82651 to 82658 (available separately from the digital data set).

Survey Parameters:

Survey type: magnetic and gamma-ray spectrometer

Survey conducted by: CGG Canada Services, Ottawa, Ontario

Date flown: July 16 to August 24, 2014

Survey size: 33,085 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: none

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 and gamma-ray spectrometric survey was carried out as part of the Ontario Geological Survey's Precambrian bedrock mapping program. The survey was flown to provide high-quality, high-resolution aeromagnetic and gamma-ray spectrometric data to help map the bedrock geology of the area.

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

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OGS

AEROMAGNETIC

AIRBORNE GAMMA RAY

AIRBORNE MAG (GRADIENT)

AIRBORNE MAG (TOTAL)

AIRBORNE MAG (RESIDUAL)

GEOPHYSICAL

Business Theme:

GEOLOGICAL SURVEY

GEOLOGY

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 48° 54'

South Bounding Latitude: 47° 54'

West Bounding Longitude: -92° 57'

East Bounding Longitude: -89° 10'

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: Direct Field Collection

Time Period: survey conducted from July 16 to August 27, 2014

CONTACT

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METADATA

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