

GDS1079b METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding: Ontario Airborne Geophysical Surveys, Magnetic and Electromagnetic Data, Grid and Profile Data (Geosoft® format) and Vector Data, Kabinakagami Lake Area

Acronyms are Used to Identify the Data Set or Information Holding: GDS1079b

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) 1079b contains the results of a helicopter-borne magnetic and electromagnetic survey, totalling 16,323 line-kilometres, flown in the Kabinakagami Lake area in northern Ontario. The survey covers an area approximately 1799 square kilometres and was flown by Geotech Limited, Aurora, Ontario.

This geophysical data set includes airborne magnetic and electromagnetic profile data—both raw and processed—in Geosoft® (.gdb) file format; 40 m × 40 m grids Geosoft® (.grd) file format) of the magnetic and electromagnetic profile data; databases of picked electromagnetic anomalies in Geosoft® (.gdb) file format; databases of Keating correlation coefficient anomalies in Geosoft® (.gdb) file format; GeoTIFF (.tif) images of magnetic and electromagnetic grids; vector (.dxf) files of flight path, EM anomalies, Keating anomalies and contours of the residual magnetic field, EM decay constant and apparent conductivity; and the survey report in portable document format (.pdf).

These data accompany geophysical Maps 82738 to 82769 (available separately from the digital data set).

Survey Parameters:

Survey type: magnetic and electromagnetic

Survey conducted by: Geotech Limited, Aurora, Ontario

Date flown: July 18 to October 22, 2014

Survey area: 1799 square kilometres

Survey size: 16,323 line-kilometres

Nominal flight-line spacing: 200 m

Control-line spacing: 1500 m

Aircraft mean terrain clearance: 92 m

Magnetic survey type: single sensor

Magnetic sampling interval: 10 readings per second

EM survey type: VTEM® Plus

EM domain: time domain

EM height: 45 m

VLF-EM: none

Gamma-ray survey: none

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 airborne magnetic and electromagnetic survey was carried out as part of the Ontario Geological Survey's bedrock mapping program. This survey was designed to help better define geological features, assist bedrock mapping and help to identify targets of potential economic interest.

The Kabinakagami Lake area survey was flown to provide high-quality, high-resolution magnetic and electromagnetic data to support geological mapping of the area.

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

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AIRBORNE MAG (TOTAL)
GEOPHYSICAL

Business Theme:

GEOLOGICAL SURVEY
GEOLOGY

GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 49° 06'

South Bounding Latitude: 48° 33'

West Bounding Longitude: -84° 50'

East Bounding Longitude: -83° 13'

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: very precise +/- 5 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 18 to October 22, 2014

Data Source Type: Digital Map File

Source Contribution: Base map information derived from the Land Information Ontario Data Warehouse, Land Information Ontario, Ministry of Natural Resources and Forestry, scale 1:50 000

Name of Source Data Set: Natural Resources and Values Information System

Acronym of Source Data Set: NRVIS

Source Data Set Description: NRVIS is a GIS-based system for managing the storage of the Ontario Ministry of Natural Resources and Forestry (MNR) digital land-related information in a standardized manner.

Organization that Created Source Data Set: Ontario Ministry of Natural Resources and Forestry

CONTACT

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