

GDS 1248 METADATA

GENERAL INFORMATION

Official Name of the Data Set or Information Holding: Ontario Airborne Geophysical Surveys, Magnetic Gradiometer Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Moosonee Area—Purchased Data

Acronyms are Used to Identify the Data Set or Information Holding: GDS1248

Describe the Data Set or Information Holding:

Ontario Geological Survey (author)

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

As part of an ongoing program to acquire high-quality, high-resolution airborne geophysical data across the province of Ontario, the Ontario Ministry of Northern Development and Mines (MNDM) does, from time to time, issue Requests For Data (RFD) in order to purchase existing proprietary data held by mining companies. Purchase of existing data complements new surveys commissioned by the MNDM.

The purchase of data is attractive due to the low cost of acquisition relative to flying new surveys. The money used to purchase the data can be reinvested in exploration. The data are assessed for quality prior to purchase and are reprocessed to meet the common formats and standards of other Ontario geophysical data. Once reprocessed, these data are then made public.

Geophysical Data Set (GDS) 1248 includes the results of 4 airborne magnetic gradiometer surveys, totalling 35,108 line-kilometres, flown near Moosonee in northern Ontario. The surveys covered a total area of 6444 square kilometres.

The surveys were conducted from 2003 to 2005 and were flown by

- Goldak Airborne Surveys, Saskatoon, Saskatchewan, for SouthernEra Resources Inc., Toronto, Ontario;
- Fugro Airborne Surveys Quebec, Saint-Laurent, Québec, for SouthernEra Resources Ltd., Toronto, Ontario;
- Goldak Exploration Technology Ltd., Saskatoon, Saskatchewan, for SouthernEra Resources Ltd., Toronto, Ontario.

This geophysical data set includes 40 m × 40 m grids and GeoTIFF images of the gradient-enhanced residual magnetic field data and the second vertical derivative of the gradient-enhanced residual magnetic field data; airborne magnetic gradiometer profile data—both raw and processed—in ASCII (.xyz) and Geosoft® (.gdb) file formats; grids (in ASCII (.gxf) and Geosoft® (.grd) file formats) of the residual of the total magnetic

field data, gradient-enhanced residual magnetic field data, second vertical derivative of the gradient-enhanced residual magnetic field data; database of Keating correlation coefficient anomalies in ASCII (.csv) and Geosoft® (.gdb) file formats; vector (*.dxf) files of flight path, Keating correlation coefficient anomalies and contours of the gradient-enhanced residual magnetic intensity; and survey report in portable document format (.pdf).

These data accompany geophysical Maps 60466 to 60475, which are available separately from the digital data set.

Survey Parameters:

Survey type: magnetic gradiometer

Dates flown:

December 17, 2004 to February 15, 2005 (Blocks 1, 2);

June 6, 2003 to June 19, 2003 (Block 3);

November 26, 2003 to December 15, 2003 (Block 4)

Surveys conducted by:

Goldak Airborne Surveys (Blocks 1, 2);

Fugro Airborne Surveys Quebec (Block 3);

Goldak Exploration Technology Ltd. (Block 4)

Surveys conducted for:

SouthernEra Resources Inc., Toronto, Ontario (Blocks 1, 2);

SouthernEra Resources Ltd., Toronto, Ontario (Blocks 3, 4)

Survey areas:

1964.2 square kilometres (Block 1);

1569.2 square kilometres (Block 2);

2116.6 square kilometres (Block 3);

794.4 square kilometres (Block 4)

Survey sizes:

10,570.1 line-kilometres (Block 1);

8683.6 line-kilometres (Block 2);

11,195.1 line-kilometres (Block 3);

4659.7 line-kilometres (Block 4)

Traverse-line orientation: approximately east-west

Traverse-line spacing: 200 m

Control-line orientation: approximately north-south

Control-line spacing: 2000 m

Nominal aircraft terrain clearance: 80 m

Magnetic survey type: cesium-vapour

Magnetometer sensor locations: wingtips, tail stinger

Magnetic sampling interval: 20 readings per second (desampled to 10 readings per second) (Blocks 1, 2, 4); 10 readings per second (Block 3)

EM survey type: N/A

EM domain: N/A

EM height: N/A

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. These magnetic gradiometer surveys were acquired as part of the Ontario Geological Survey's Precambrian bedrock geology mapping program to provide high-quality and high-resolution geophysical data to help better define geological features, and to assist in mapping the geology of the area.

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

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GEOGRAPHIC INFORMATION

Selected geographic type: Bounding Box only

North Bounding Latitude: 51° 46'

South Bounding Latitude: 50° 42'

West Bounding Longitude: -83° 07'

East Bounding Longitude: -80° 46'

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: Data acquisition and data processing for Blocks 1 and 2 by Goldak Airborne Surveys, Saskatoon, Saskatchewan, for SouthernEra Resources Inc., Toronto, Ontario. Survey conducted from December 17, 2004 to February 15, 2005.

Data acquisition and data processing for Block 3 by Fugro Airborne Surveys Quebec, Saint-Laurent, Québec, for SouthernEra Resources Ltd., Toronto, Ontario. Survey conducted from June 6 to June 19, 2003.

Data acquisition and data processing for Block 4 by Goldak Exploration Technology Ltd., Saskatoon, Saskatchewan, for SouthernEra Resources Ltd., Toronto, Ontario. Survey conducted from November 26 to December 15, 2003.

Data reprocessing and map production by Paterson, Grant and Watson Limited, Toronto, Ontario.

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