

## THESE TERMS GOVERN YOUR USE OF THIS DOCUMENT

***Your use of this electronic information product (“EIP”), and the digital data files contained on it (the “Content”), is governed by the terms set out on this page (“Terms of Use”). By opening the EIP and viewing the Content, you (the “User”) have accepted, and have agreed to be bound by, the Terms of Use.***

**EIP and Content:** This EIP and Content is offered by the Province of Ontario’s *Ministry of Northern Development and Mines* (MNDM) as a public service, on an “as-is” basis. Recommendations and statements of opinions expressed are those of the author or authors and are not to be construed as statement of government policy. You are solely responsible for your use of the EIP and its Content. You should not rely on the Content for legal advice nor as authoritative in your particular circumstances. Users should verify the accuracy and applicability of any Content before acting on it. MNDM does not guarantee, or make any warranty express or implied, that the Content is current, accurate, complete or reliable or that the EIP is free from viruses or other harmful components. MNDM is not responsible for any damage however caused, which results, directly or indirectly, from your use of the EIP or the Content. MNDM assumes no legal liability or responsibility for the EIP or the Content whatsoever.

**Links to Other Web Sites:** This EIP or the Content may contain links, to Web sites that are not operated by MNDM. Linked Web sites may not be available in French. MNDM neither endorses nor assumes any responsibility for the safety, accuracy or availability of linked Web sites or the information contained on them. The linked Web sites, their operation and content are the responsibility of the person or entity for which they were created or maintained (the “Owner”). Both your use of a linked Web site, and your right to use or reproduce information or materials from a linked Web site, are subject to the terms of use governing that particular Web site. Any comments or inquiries regarding a linked Web site must be directed to its Owner.

**Copyright:** Canadian and international intellectual property laws protect the Content. Unless otherwise indicated, copyright is held by the Queen’s Printer for Ontario.

It is recommended that reference to the Content be made in the following form:

Ontario Geological Survey 2016. Ontario airborne geophysical surveys, magnetic gradiometer data, grid and profile data (ASCII and Geosoft® formats) and vector data, Moosonee area—Purchased data; Ontario Geological Survey, Geophysical Data Set 1248.

**Use and Reproduction of Content:** The EIP and the Content may be used and reproduced only in accordance with applicable intellectual property laws. *Non-commercial* use of unsubstantial excerpts of the Content is permitted provided that appropriate credit is given and Crown copyright is acknowledged. Any substantial reproduction of the Content or any *commercial* use of all or part of the Content is prohibited without the prior written permission of MNDM. Substantial reproduction includes the reproduction of any illustration or figure, such as, but not limited to graphs, charts and maps. Commercial use includes commercial distribution of the Content, the reproduction of multiple copies of the Content for any purpose whether or not commercial, use of the Content in commercial publications, and the creation of value-added products using the Content.

### Contact:

FOR FURTHER INFORMATION ON	PLEASE CONTACT:	BY TELEPHONE:	BY E-MAIL:
The Reproduction of the EIP or Content	MNDM Publication Services	Local: (705) 670-5691 Toll-Free: 1-888-415-9845, ext. 5691 (inside Canada, United States)	<a href="mailto:Pubsales.ndm@ontario.ca">Pubsales.ndm@ontario.ca</a>
The Purchase of MNDM Publications	MNDM Publication Sales	Local: (705) 670-5691 Toll-Free: 1-888-415-9845, ext. 5691 (inside Canada, United States)	<a href="mailto:Pubsales.ndm@ontario.ca">Pubsales.ndm@ontario.ca</a>
Crown Copyright	Queen’s Printer	Local: (416) 326-2678 Toll-Free: 1-800-668-9938 (inside Canada, United States)	<a href="mailto:Copyright@ontario.ca">Copyright@ontario.ca</a>

These data accompany the following publications (available separately):

Maps 60 466 to 60 470

*Airborne Magnetic Gradiometer Surveys, Colour-Filled Contours of the Residual Magnetic Field, Moosonee Area—Purchased Data*, scale 1:50 000.

Maps 60 471 to 60 475

*Airborne Magnetic Gradiometer Surveys, Shaded Colour Image of the Second Vertical Derivative of the Residual Magnetic Field and Keating Correlation Coefficients, Moosonee Area—Purchased Data*, scale 1:50 000.

For information on purchasing all publications, including digital data, contact:

Publication Sales

Ministry of Northern Development and Mines

933 Ramsey Lake Rd., Level A3

Sudbury, Ontario P3E 6B5

Tel: 1-888-415-9845, ext. 5691 (toll-free inside Canada and the United States)

Tel: (705) 670-5691 (local calls)

Fax: (705) 670-5770

---

Users of OGS products are encouraged to contact those Aboriginal communities whose traditional territories may be located in the mineral exploration area to discuss their project.

---



Geophysical Data Set 1248

**Ontario Airborne Geophysical Surveys, Magnetic Gradiometer Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Moosonee Area—Purchased Data**

by Ontario Geological Survey

This publication can be downloaded from

[http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm\\_dir.asp?type=pub&id=GDS1248](http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=GDS1248)

Geophysical Data Set (GDS) 1248 includes the results of 4 airborne magnetic gradiometer surveys, totalling 35,108 line-kilometres, flown in the Moosonee area of northern Ontario. The surveys covered a total area of 6444 km<sup>2</sup>. The surveys were conducted in 2003 and 2004–2005 by Goldak Airborne Surveys (Blocks 1, 2) for SouthernEra Resources Inc., Toronto, Ontario; and by Fugro Airborne Surveys Quebec (Block 3) and Goldak Exploration Technology Ltd. (Block 4) for SouthernEra Resources Ltd., Toronto, Ontario.

As part of an ongoing program to acquire high-quality, high-resolution airborne geophysical data across the Province of Ontario, the 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 because of 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.

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
- survey report in portable document format (.pdf)

### 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 km <sup>2</sup> (Block 1) 1569.2 km <sup>2</sup> (Block 2) 2116.6 km <sup>2</sup> (Block 3) 794.4 km <sup>2</sup> (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 flight-line spacing:	200 m
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:	none
EM domain:	N/A
EM height:	N/A
VLF-EM:	none
Gamma-ray survey:	none

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