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Geophysical Data Set 1037—Revised

**Ontario Airborne Geophysical Surveys, Magnetic Data, Grid Data (ASCII and Geosoft®
Formats), Magnetic Supergrids**

by Ontario Geological Survey

This publication can be downloaded from

http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=GDS1037-REV

Geophysical Data Set (GDS) 1037—Revised comprises 7 magnetic supergrids, which are merged grids combining data from adjoining high-resolution aeromagnetic surveys. The supergrids provide the user with a wider view of the magnetic field and the convenience of having a single grid rather than multiple grids from several surveys. The supergrids achieve a near-seamless merge of adjacent surveys using procedures that are described in an accompanying report.

The goal is to provide, wherever possible, a regional picture of the total magnetic field and its second vertical derivative, derived from a number of individual surveys, so that geological trends can be reliably followed across survey boundaries. The individual grids that were combined to create the magnetic supergrids have all been published as separate Geophysical Data Sets that can be obtained from the Ontario Geological Survey.

The surveys, totalling 2 203 459 line-kilometres, were flown over various locations in Ontario, and cover an area of approximately 328 186 square kilometres.

This geophysical data set includes

- 40 m × 40 m grids (in ASCII (.gxf) and Geosoft® (.grad) file formats) of the GSC-levelled magnetic field data and the calculated second vertical derivative of the GSC-levelled magnetic field data
- report in portable document format (.pdf)

Survey Parameters

Survey type:	magnetic
Dates flown:	various surveys from 1975 to 2016
Survey size:	2 203 459 line-kilometres
Survey area:	328 186 km ²

Flight-line spacing:	various
Control-line spacing:	various
Aircraft terrain clearance:	various
Magnetic survey type:	total field
Magnetometer height:	each supergrid levelled to common height (30 to 150 m: <i>see report</i>)
Magnetic sampling interval:	various
EM survey type:	none
EM domain:	N/A
EM height:	N/A
VLF-EM:	none
Gamma-ray survey:	none