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Ontario Geological Survey Maps 83 026 to 83 029

*Airborne Magnetic and Electromagnetic Surveys, Residual Magnetic Field Contours with Electromagnetic Anomalies and Keating Correlation Coefficients, Saganash Lake Area, scale 1:20 000.*

Ontario Geological Survey Maps 83 030 and 83 031

*Airborne Magnetic and Electromagnetic Surveys, Colour-Filled Contours of the Residual Magnetic Field and Electromagnetic Anomalies, Saganash Lake Area, scale 1:50 000.*

Ontario Geological Survey Maps 83 032 and 83 033

*Airborne Magnetic and Electromagnetic Surveys, Shaded Colour Image of the Second Vertical Derivative of the Residual Magnetic Field and Keating Correlation Coefficients, Saganash Lake Area, scale 1:50 000.*

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*Airborne Magnetic and Electromagnetic Surveys, Colour-Filled Contours of the EM Decay Constant and Electromagnetic Anomalies, Saganash Lake Area, scale 1:50 000.*

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Geophysical Data Set 1089

**Ontario Airborne Geophysical Surveys, Magnetic and Electromagnetic Data, Grid and Profile Data (ASCII and Geosoft® Formats) and Vector Data, Saganash Lake Area**

by Ontario Geological Survey

This publication can be downloaded from

[http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm\\_dir.asp?type=pub&id=GDS1089](http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=GDS1089)

Geophysical Data Set (GDS) 1089 includes the results of an airborne magnetic and electromagnetic survey, totalling 4848 line-kilometres, flown over the Saganash Lake area in northeastern Ontario. The survey covered an area of 826 km<sup>2</sup>, and was flown by Geotech Limited (Aurora, Ontario).

This geophysical data set includes

- 40 m × 40 m grids in ASCII (.*gxf*) and Geosoft® (.*grd*) file formats of the magnetic and electromagnetic profile data and derivatives
- airborne magnetic and electromagnetic profile data—both raw and processed—in ASCII (.*xyz*) and Geosoft® (.*gdb*) file formats
- GeoTIFF (.*tif*) images of magnetic and electromagnetic grids
- database of picked electromagnetic anomalies in ASCII (.*csv*) and Geosoft® (.*gdb*) file formats
- database of Keating correlation coefficient anomalies in ASCII (.*csv*) and Geosoft® (.*gdb*) file formats
- vector (.*dxf*) files of flight path, EM anomalies, Keating correlation coefficient anomalies, contours of the residual magnetic field, EM decay constant and apparent conductivity
- survey report in portable document format (.*pdf*)

### Survey Parameters

Survey type:	magnetic and electromagnetic
Dates flown:	January 26 to March 19, 2021
Survey size:	4848 line-kilometres
Survey area:	826 km <sup>2</sup>
Traverse-line direction:	125°–305°
Traverse-line spacing:	200 m
Control-line direction:	35°–215°
Control-line spacing:	1500 m
Aircraft nominal terrain clearance:	93 m
Magnetic survey type:	single sensor total field
Magnetic sampling interval:	10 readings per second
EM survey type:	VTEM® Plus
EM domain:	TDEM
EM height:	42 m
VLF–EM:	N/A
Gamma-ray survey:	N/A

These data accompany geophysical Maps 83 026 to 83 037, which are available separately from the digital data set.