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These data accompany:

Ontario Geological Survey, Geophysical Data Set 1083b

Ontario Airborne Geophysical Surveys, Magnetic Gradiometer and Gamma-Ray Spectrometric Data, Grid and Profile Data (Geosoft® Format) and Vector Data, Separation Lake Area

Ontario Geological Survey Maps 82 838 to 82 853

Airborne Magnetic Gradiometer and Gamma-Ray Spectrometric Surveys, Colour-Filled Contours of the Residual Magnetic Field, Separation Lake Area, scale 1:50 000.

Ontario Geological Survey Maps 82 854 to 82 869

Airborne Magnetic Gradiometer and Gamma-Ray Spectrometric Surveys, Shaded Colour Image of the Second Vertical Derivative of the Residual Magnetic Field and Keating Coefficients, Separation Lake Area, scale 1:50 000.

Ontario Geological Survey Maps 82 870 to 82 885

Airborne Magnetic Gradiometer and Gamma-Ray Spectrometric Surveys, Ternary Radioelement Image, Separation Lake Area, scale 1:50 000.

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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 1083A

Ontario Airborne Geophysical Surveys, Magnetic Gradiometer and Gamma-Ray Spectrometric Data, Grid and Profile Data (ASCII Format) and Vector Data, Separation 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=GDS1083a

Geophysical Data Set (GDS) 1083a comprises the results of an airborne magnetic and gamma-ray spectrometric survey, totalling 117 487 line-kilometres, flown over the Separation Lake area of northwestern Ontario. The survey covers an area approximately 21 199 square kilometres, and was flown by Goldak Airborne Surveys (Saskatoon, Saskatchewan).

This geophysical data set includes

- airborne magnetic and gamma-ray spectrometric profile data—both raw and processed—in ASCII (.xyz) file format
- 40 m × 40 m grids (in ASCII (.gxf) file format) of the magnetic and gamma-ray spectrometric profile data
- database of Keating correlation coefficient anomalies in ASCII (.csv) file format
- GeoTIFF (.tif) images of magnetic and gamma-ray spectrometric grids
- vector (.dxf) files of flight path, Keating anomalies and contours of the residual magnetic field
- the survey report and supporting documents in portable document format (.pdf)

Survey Parameters:

Survey type:	Magnetic and gamma-ray spectrometric
Survey conducted by:	Goldak Airborne Surveys, Saskatoon, Saskatchewan
Date flown:	July 14 to September 23, 2016
Survey area:	21 199 square kilometres
Survey size:	117 487 line-kilometres
Flight-line spacing:	200 m
Control-line spacing:	2000 m
Aircraft nominal terrain clearance:	100 m
Magnetic survey type:	horizontal gradiometer
Magnetic sampling interval:	10 readings per second
EM survey type:	N/A
EM domain:	N/A
EM height:	N/A
VLF-EM:	none
Gamma-ray survey:	gamma-ray spectrometric

These data accompany geophysical Maps 82 838 to 82 885, which are available separately from the digital data set.