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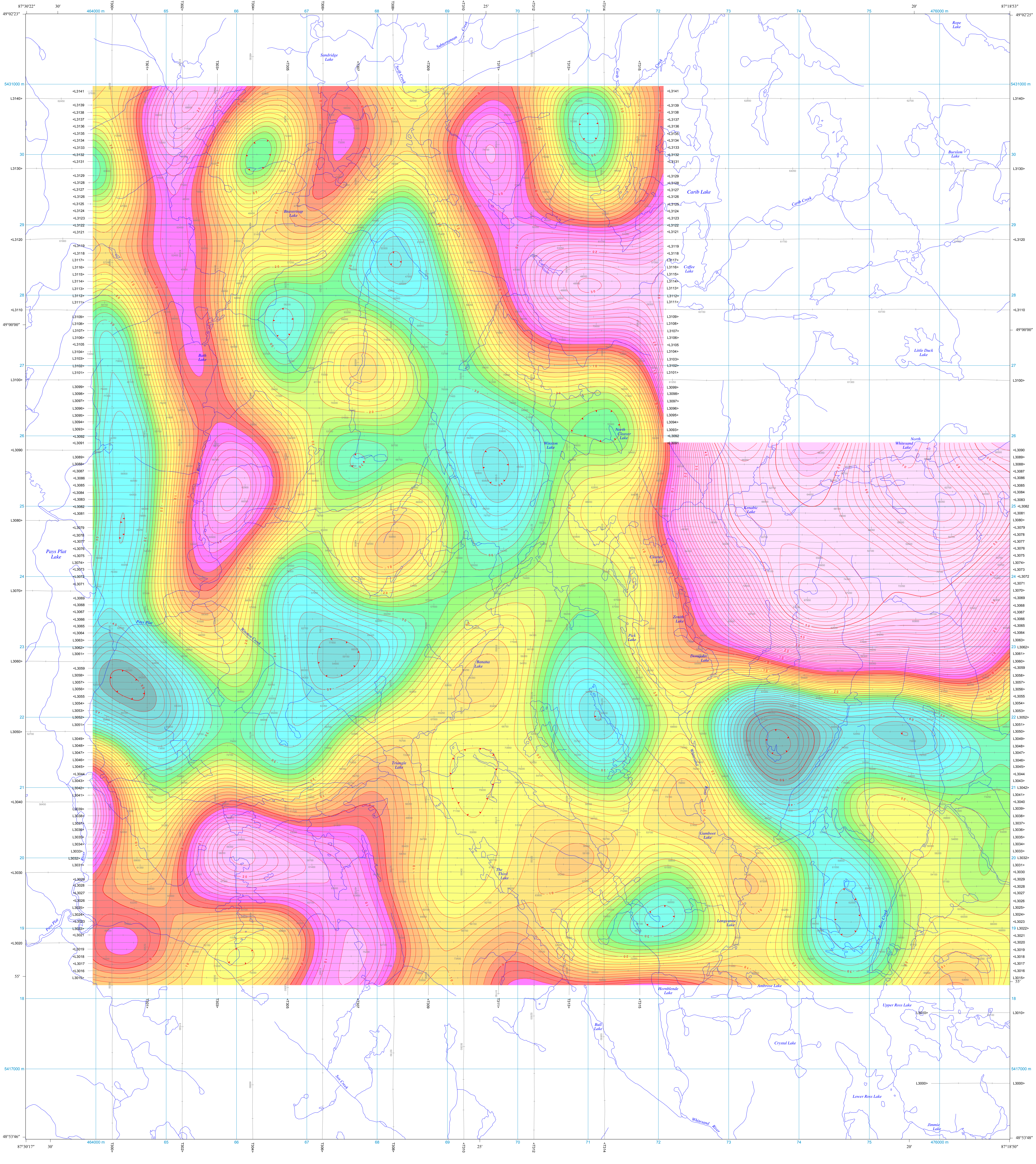
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Ontario Geological Survey 2016. Airborne magnetic and gravimetric surveys, colour-filled contours of the first vertical derivative of the terrain-corrected Bouguer gravity, Pays Plat Lake area; Ontario Geological Survey, Map 60 482, scale 1:20 000.

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SURVEY PARAMETERS

AIRCRAFT
Type: Britten-Norman BN2B-21 Islander
Registration: C-GSGX

MAGNETOMETER
Type: Geometrics Ltd. G-822A cesium split beam
Sensitivity: 0.005 nT
Noise level: 0.0005 nT
Sample interval: 10 readings per second
Sensor location: tail stinger
Compensation: Sander Geophysics Ltd. AIRComp
Data acquisition: SGDAS

AIRBORNE GRAVIMETER SYSTEM
Type: Sander Geophysics Ltd. AIRGrav
Initial sample interval: 128 readings per second
Final sample interval: 2 readings per second
Noise level: -0.2 mGal, with half sine wave resolution of 1.8 to 2 km

NAVIGATION SYSTEM
GPS receiver: NovAtel® OEMV6
GPS sample interval: 10 readings per second
Laser altimeter: Riegl LD90-314-HP
Radar altimeter: Bendix King KRA-10A
Radar sample interval: 10 readings per second
Barometric altimeter: Honeywell Seneca® digital barometric pressure sensor
Barometric sample interval: 10 readings per second
Video flight-path camera: Datatops Video Systems™ E600
Navigation acquisition: SGDAS

BASE STATION
Type: Geometrics Ltd. G-822A cesium split beam
Magnetometer sample interval: 10 readings per second
GPS sample interval: 10 readings per second

SURVEY SPECIFICATIONS
Survey dates: April 12 to April 24, 2014
Nominal aircraft terrain clearance: 80 m
Traverse line spacing: 100 m
Control line spacing: 500 m
Traverse line direction: east-west
Control line direction: north-south

CO-ORDINATE SYSTEM
Projection: Universal Transverse Mercator
Datum: NAD83
Central meridian: 87°W (UTM zone 18N)
Central scale factor: 0.9996
False easting: 500 000 m
False northing: 0 m

Ontario
Ontario Geological Survey
MAP 60 482
AIRBORNE MAGNETIC AND GRAVIMETRIC SURVEYS
Colour-filled contours of the first vertical derivative of the terrain-corrected Bouguer gravity
PAYS PLAT LAKE AREA

Scale 1:20 000
500 m 0 0.5 1 km

NTS References: 42 D/14; E/3
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Location map 1 cm equals 10 km

LEGEND

FLIGHT LINE INFORMATION
Line number ← Line direction
← Fiducial

GRAVITY CONTOURS
Eotvos (E)
2 E contour
10 E contour
50 E contour
Gravity depression

FIRST VERTICAL DERIVATIVE OF THE BOUGUER GRAVITY GRID
Eotvos (E)
46.5
24.0
14.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
-12.0
-14.0
-16.0
-18.0
-20.0
-22.0
-24.0
-26.0
-28.0
-30.0
-32.0
-34.0
-36.0
-38.0
-40.0
-42.0
-44.0
-46.0
-48.0

DESRIPTIVE NOTES

INTRODUCTION
The data comprising this map are derived from the results of an airborne magnetic and gravimetric survey carried out by Sander Geophysics Ltd. The survey was flown using a Britten-Norman BN2B-21 Islander aircraft. The aircraft was equipped with a Geometrics Ltd. magnetic sensor, a Sander Geophysics Ltd. AIRGrav airborne gravity system, GPS navigation system and a digital data acquisition system.

FIRST VERTICAL DERIVATIVE OF THE TERRAIN-CORRECTED BOUGUER GRAVITY
The first vertical derivative of the terrain-corrected Bouguer gravity is the change of the gravitational field in the vertical direction. Computation of the first vertical derivative removes long wavelength features of the gravitational field and significantly improves the resolution of closely spaced and superposed anomalies. The values for the first vertical derivative of the gravitational field were computed directly from the terrain-corrected Bouguer gravity data using a fast Fourier transform.

SOURCES OF INFORMATION
Base map information derived from the Land Information Ontario Data Warehouse, Land Information Ontario, Ministry of Natural Resources and Forestry, scale 1:50 000, with modifications by staff of the Ministry of Northern Development and Mines.
Magnetic declination for centre of the map area, was approximately 5°45' W in 2016.

ACKNOWLEDGMENT
The geophysical data that comprise this survey were generously donated by the Nuclear Waste Management Organization (NWMO). The survey was flown for NWMO under the original name of "Schreiber Block".

CREDITS
Data acquisition and data compilation by Sander Geophysics Ltd., Ottawa, Ontario for Nuclear Waste Management Organization, Toronto, Ontario.
Data reprocessing and map production by Scott Hogg and Associates Ltd., Toronto, Ontario.
Contract management, base maps and map surrounds by the Ministry of Northern Development and Mines, Sudbury, Ontario.
Every possible effort has been made to ensure the accuracy of the information presented on this map. However, the Ministry of Northern Development and Mines does not assume liability for errors that may occur. Users should verify critical information.
Corresponding digital data for this survey are available from the following Ontario Geological Survey publication:
Ontario Geological Survey 2016. Ontario airborne geophysical surveys, magnetic and gravimetric data, grid and profile data (ASCII and Geosoft® formats) and vector data. Pays Plat Lake area. Ontario Geological Survey, Geophysical Data Set 1249.
Issued 2016.
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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 areas to discuss their project.

