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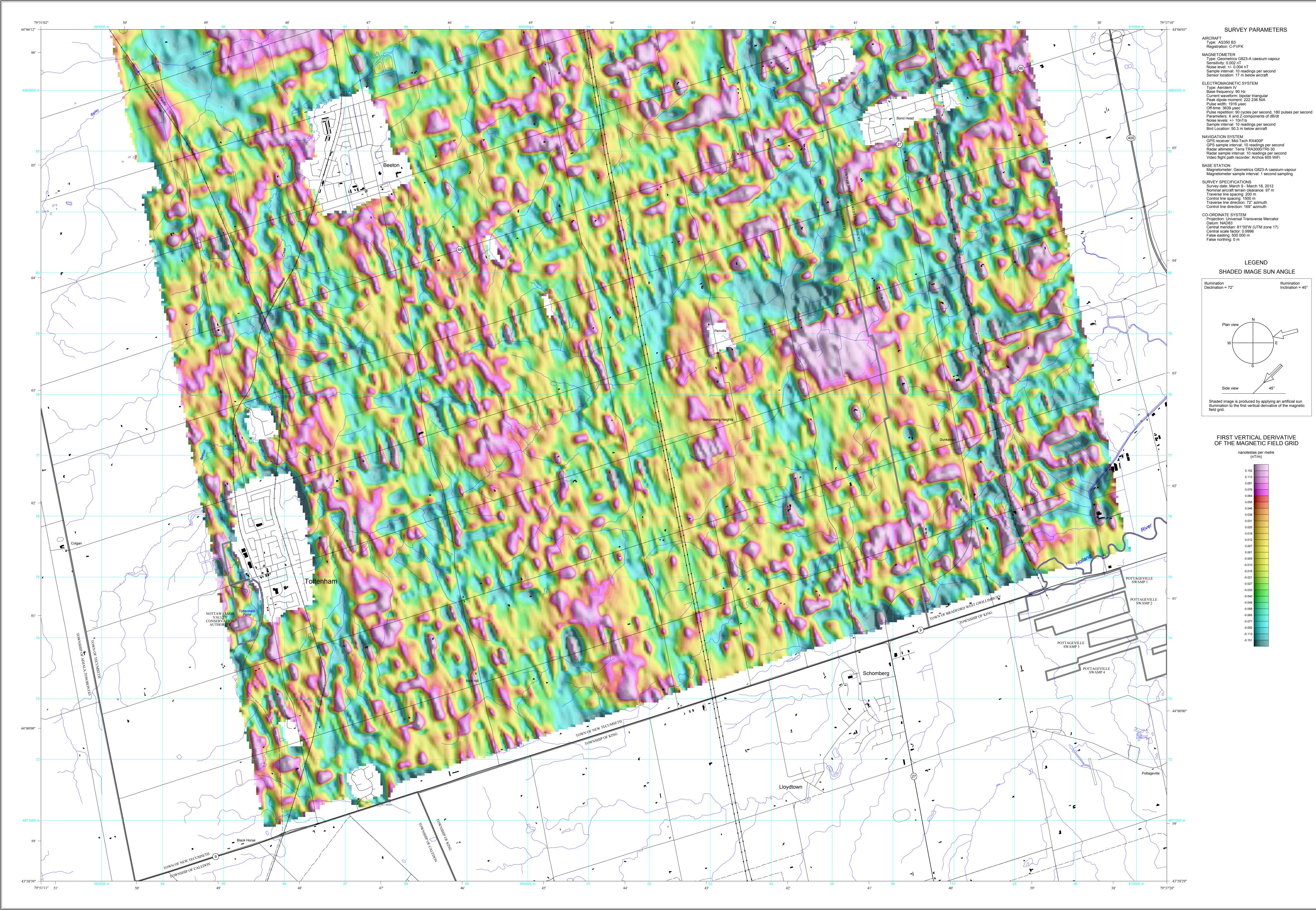
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Inclination = 45°

Ontario Geological Survey

MAP 82 587

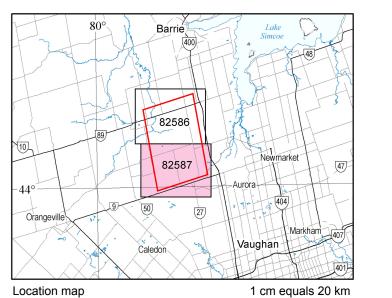
AIRBORNE MAGNETIC AND ELECTROMAGNETIC SURVEYS

Shaded colour image of the first vertical derivative of the residual magnetic field

SOUTH SIMCOE COUNTY AREA

NTS Reference: 31 D/4, 31 M/13.

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DESCRIPTIVE NOTES

This survey was flown using the Aeroquest Aerotem IV helicopter-mounted magnetic and electromagnetic system. The aircraft was also equipped with a GPS navigation system and a digital data

First Vertical Derivative of the Magnetic Field The first vertical derivative of the magnetic field is the rate of

of the first vertical derivative removes long-wavelength features of the magnetic field and significantly improves the resolution of closely spaced and superposed anomalies. The values for the first vertical derivative of the magnetic field were computed directly from the gridded residual magnetic intensity data using a fast Fourier transform, combining the transfer functions of the first vertical derivative and an eighth-order Butterworth low-pass filter (100 m cut-off wave-length). The low-pass filter was aimed at attenuating unwanted high frequencies enhanced by the derivative operator.

The shaded relief parameters are: Shading inclination: 045° Shading declination: N 72° E

acquisition system.

SOURCES OF INFORMATION Base map information derived from the Ontario Land Information Warehouse, Land Information Ontario, Ontario Ministry of Natural Resources, scale 1:20 000. Magnetic declination for the centre of the map sheet was approximately 10°31'W in 2012.

CREDITS Data acquisition, data compilation, data processing and map production by Aeroquest Airborne, Mississauga, Ontario. Project management and quality assurance by Paterson, Grant & Watson Limited, Toronto, Ontario.

Contract management, base maps and map surrounds by the Ontario Ministry of Northern Development and Mines, Sudbury, Base maps and map surrounds by the Ontario Ministry of Northern Development and Mines, Sudbury, Ontario. To enable the rapid dissemination of information, this map has not received a technical edit. Every possible effort has been made to ensure the accuracy of the information presented; however, the Ontario Ministry of Northern Development and

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Corresponding digital data for this survey are available from the following Ontario Geological Survey publication: Ontario Geological Survey 2012. Ontario airborne geophysical surveys, magnetic and electromagnetic data, grid and profile data (ASCII and Geosoft® formats) and vector data, South Simcoe County area; Ontario Geological Survey, Geophysical Data Set 1070

Issued 2012.

Data Set 1070.

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