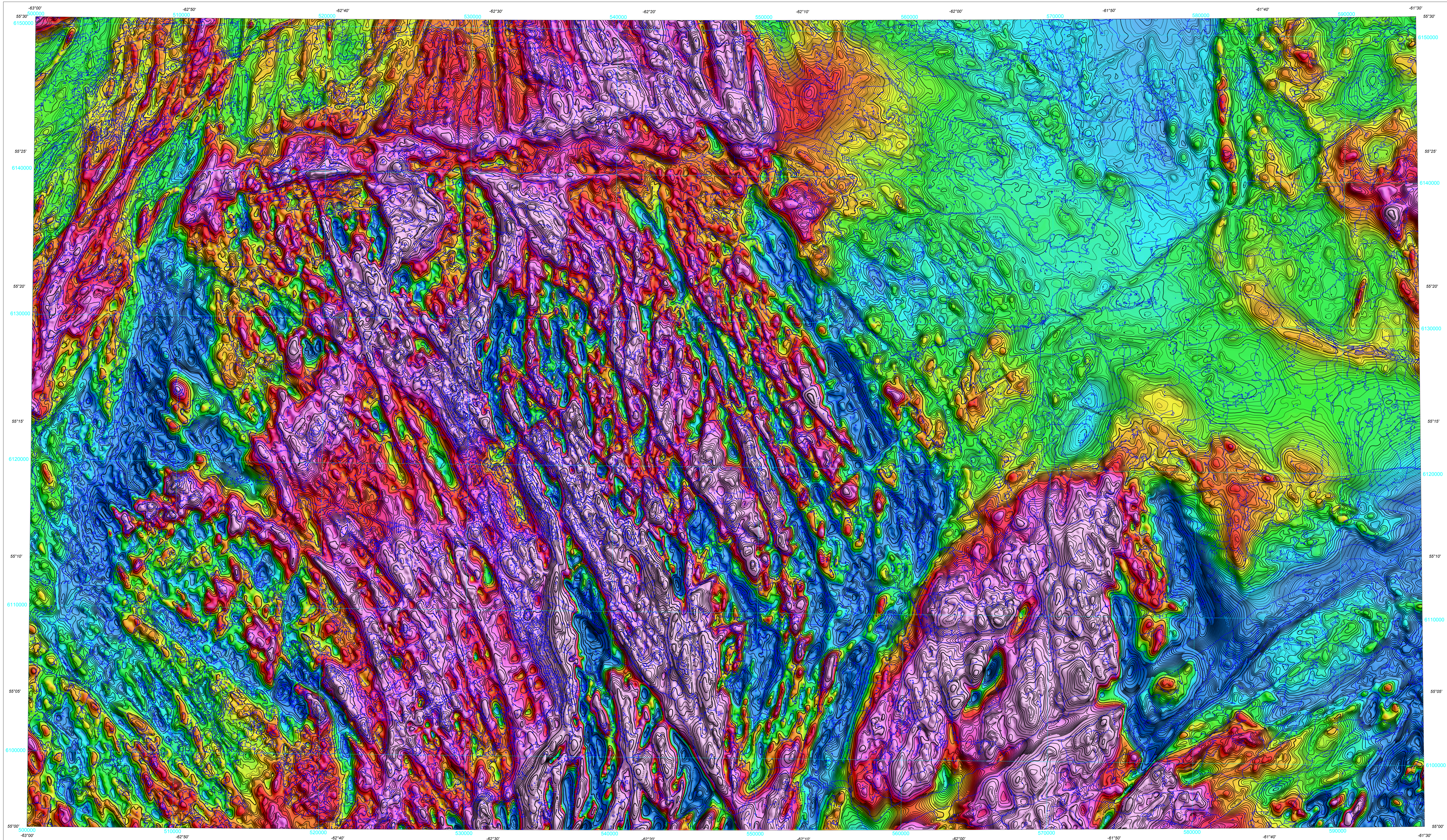


RESIDUAL TOTAL MAGNETIC FIELD



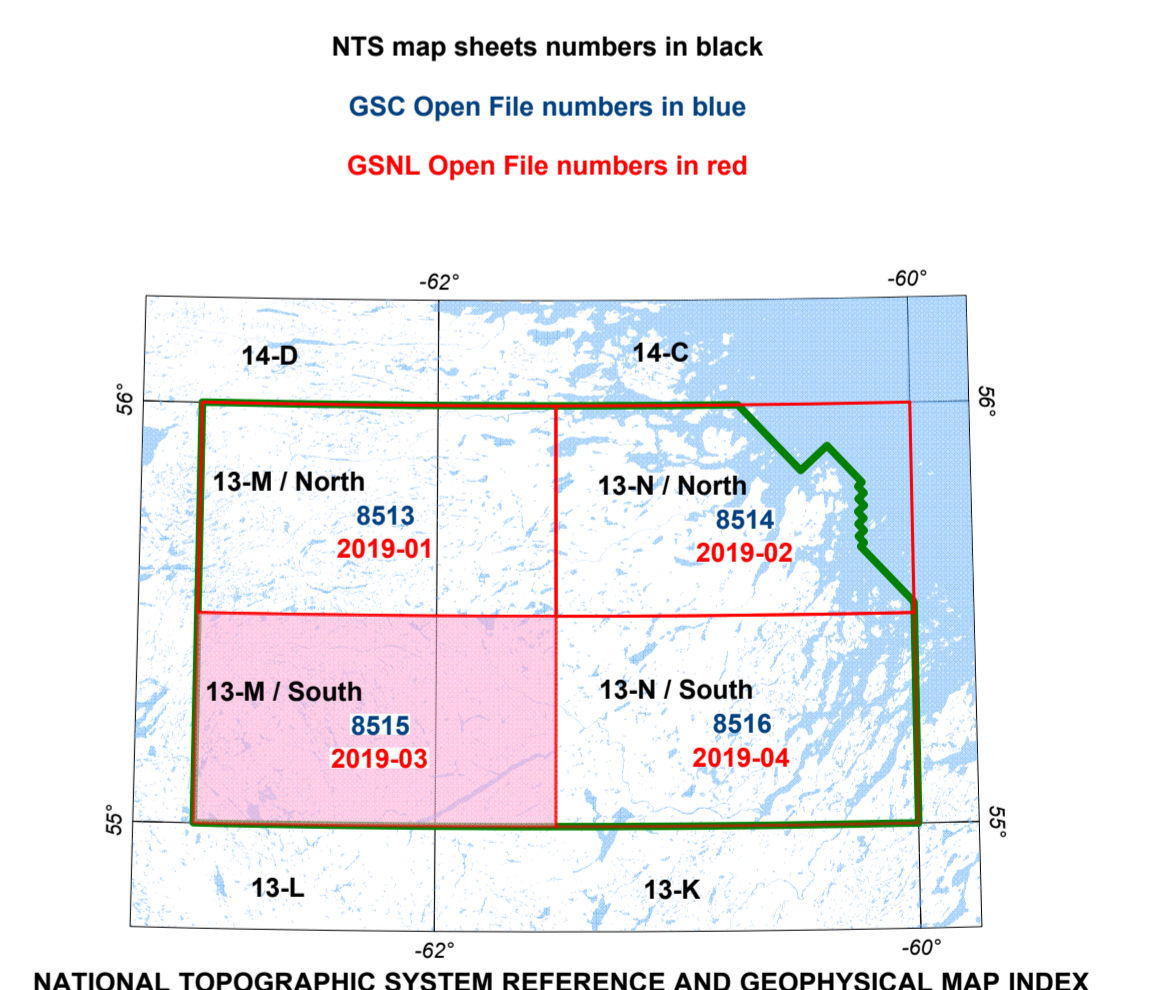
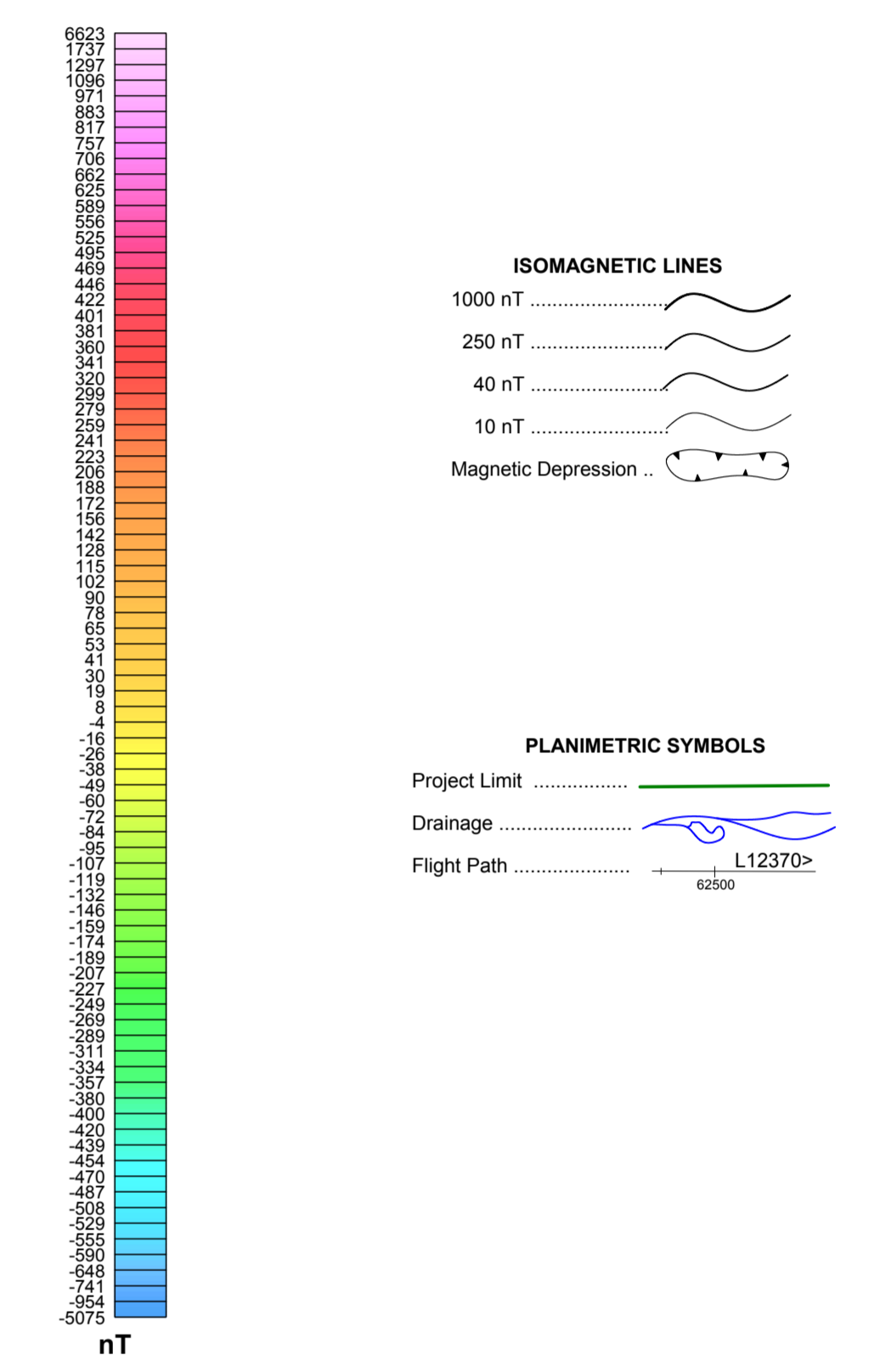
Residual Total Magnetic Field

This map of the residual total magnetic field was derived from data acquired during an aeromagnetic survey carried out in the Hopedale area, Labrador by EON Geosciences Inc. (EON), from January 15, 2018 to August 12, 2018 with two Piper Navajo aircraft (C-440Q) and a Piper Cherokee II aircraft (C-440D). The data were recorded using split-beam cesium vapour magnetometers (sensitivity: 0.005 nT) mounted in each of the tail booms of these aircraft. The nominal traverse and control line spacings were, respectively, 200 m and 1200 m, and the aircraft flew at a nominal terrain clearance of 100 m. Traverse lines were oriented N135°W with orthogonal control lines. The flight path was recovered following post-flight differential corrections to the raw Global Positioning System (GPS) data and inspection of ground images recorded by a vertically-mounted video camera. The survey was flown on a pre-determined flight surface to minimize differences in magnetic values at the intersections of control and traverse lines. These differences were computer-analyzed to obtain a mutually leveled set of flight line magnetic data. The leveled values were then interpolated to a 50 m grid. The International Geomagnetic Reference Field (IGRF) defined at the average flight altitude of 490 m for the year 2018.129 was then removed. Removal of the IGRF, representing the magnetic field of the Earth's core, produces a residual component related almost entirely to magnetizations within the Earth's crust.

This publication is available for free download through GEOCAN (<http://geocan.nrcan.ca/>). Corresponding digital profile and gridded data as well as similar data for adjacent airborne geophysical surveys are available from Natural Resources Canada's Geoscience Data Repository for Aeromagnetic Data at <http://data.nrcan.ca/index.html>. Digital products from this airborne survey are also available from the GSNL Geoscience Atlas at <https://geosites.gov.nl.ca/Default.htm>.

Acknowledgements

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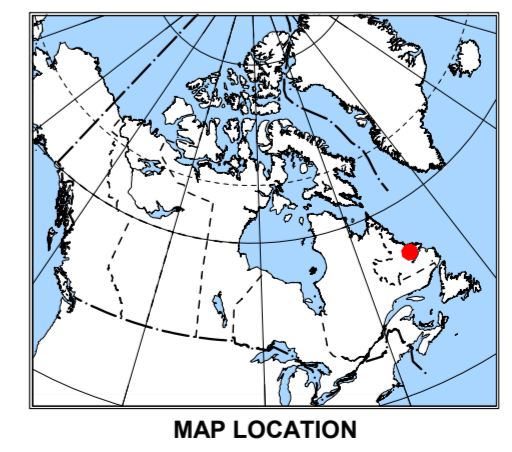


AEROMAGNETIC SURVEY OF THE HOPEDALE AREA

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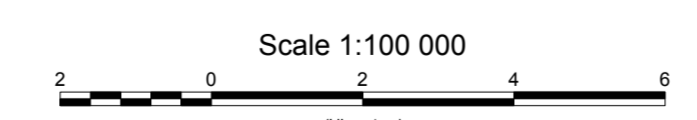


Author: M. Coyle
 Data acquisition and data compilation by EON Geosciences Inc., St-Laurent, Quebec.
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RESIDUAL TOTAL MAGNETIC FIELD

AEROMAGNETIC SURVEY OF THE HOPEDALE AREA
 NEWFOUNDLAND AND LABRADOR
 PARTS OF NTS 13-M/SOUTH AND 13-N/SOUTH



Scale 1:100 000
 Universal Transverse Mercator Projection
 North American Datum 1983
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 Base map at the scale of 1:50 000 from Natural Resources Canada, with modifications

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