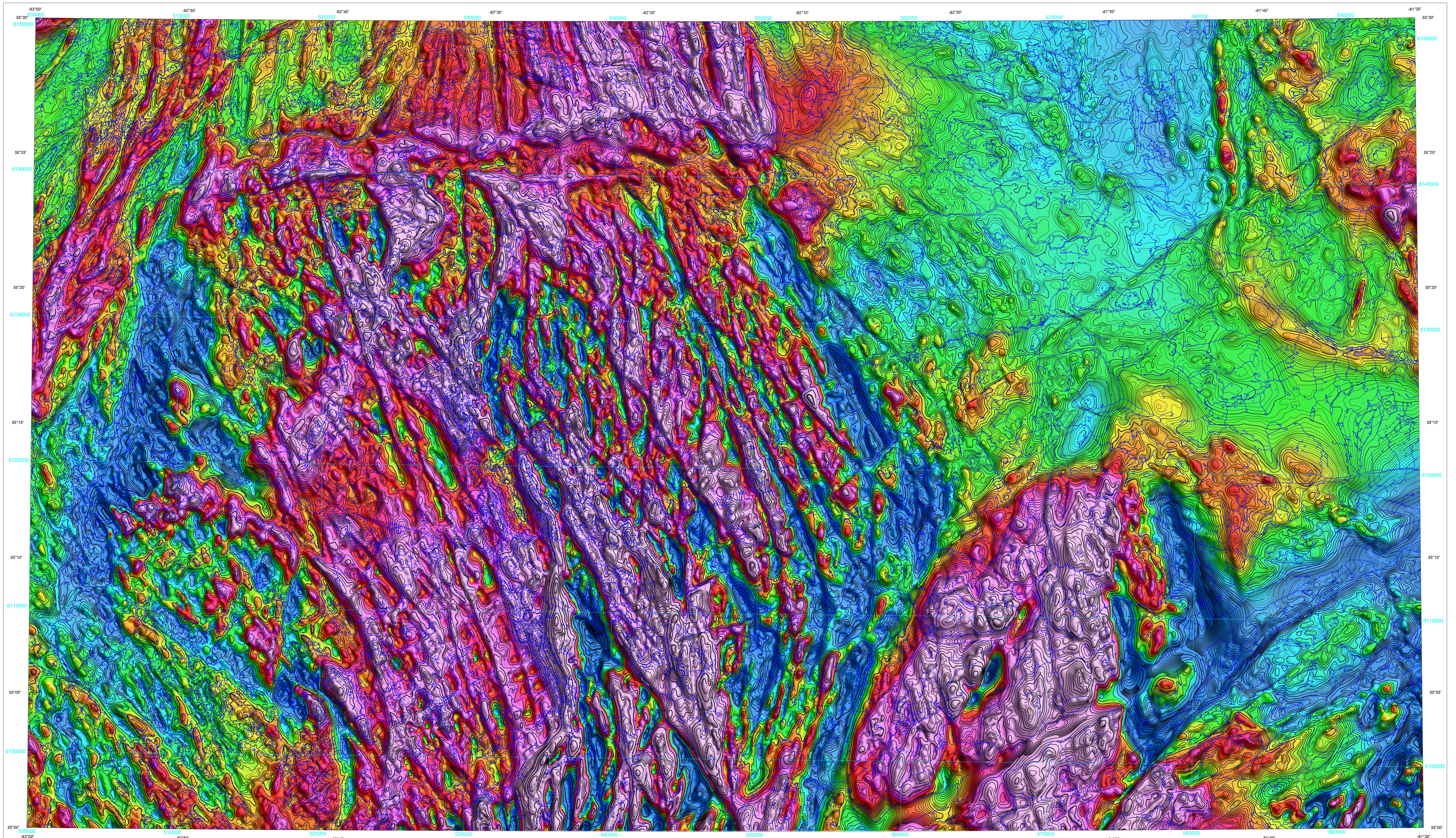


RESIDUAL TOTAL MAGNETIC FIELD

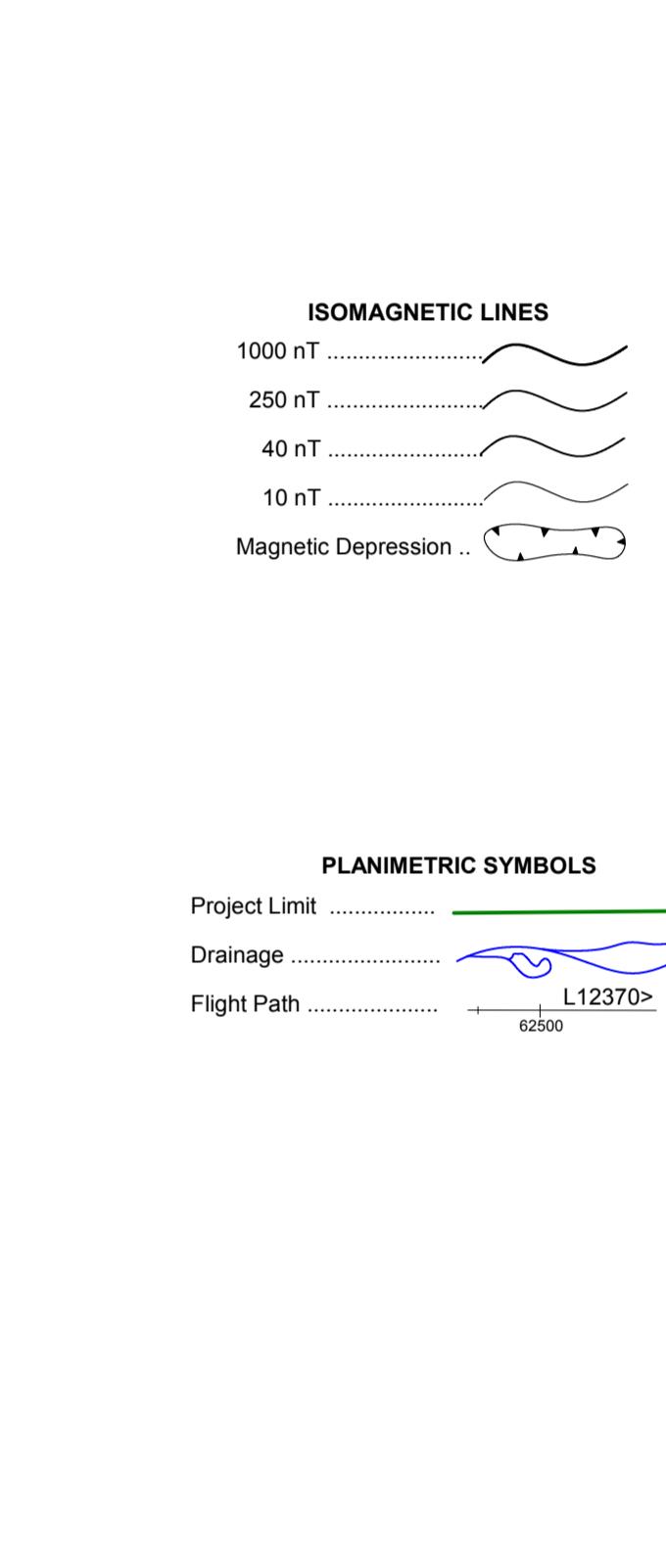


Residual Total Magnetic Field

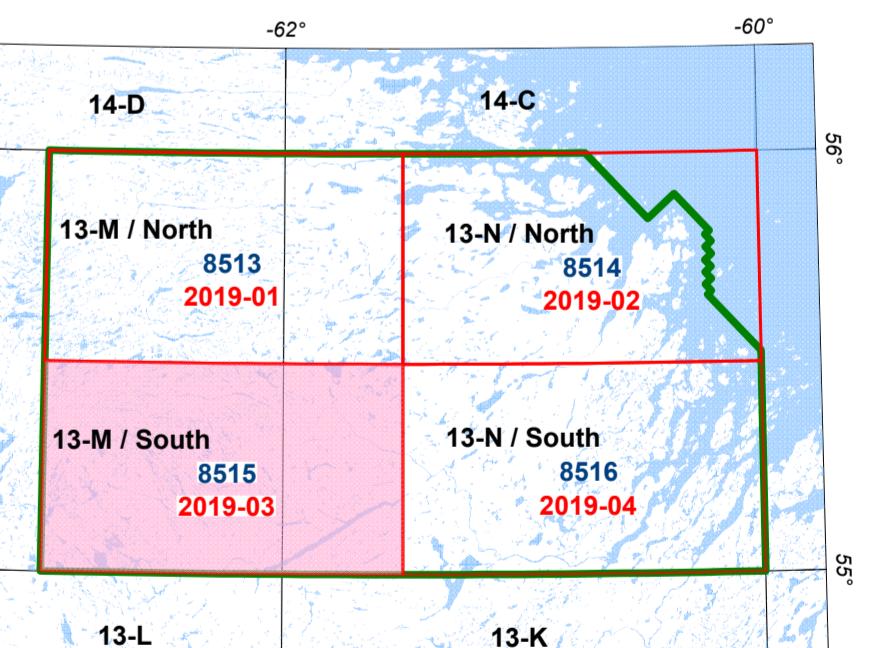
This map of the residual total magnetic field was derived from data acquired during an aeromagnetic survey carried out in Newfoundland and Labrador by EON Geosciences Inc. on February 15, 2019. The survey was done with two Piper Cheyenne II aircraft (EON-01 and EON-02) at a nominal altitude of 1000 m. 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°E with orthogonal control lines. The flight path was recorded with a portable Global Positioning System (GPS) receiver. System data and inspection of ground images recorded by a handheld video camera during the survey was flown on a pre-determined flight path to minimize differences in magnetic values at the intersections of control and traverse lines. These differences were computer-analysed to obtain a mutually levelled set of flight-line magnetic data. The levelled values were then projected to a 50 m grid using a geoid model. The residual total magnetic field was then calculated by removing the geoid from the data. The residual total magnetic field for the year 2018-329 was then removed. Remnant of the GOF, 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 GOSCAN (<http://geocan.nrcan.gc.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://pubs.nrcan.gc.ca/index_e.html. Digital products from this airborne survey are also available from the GSC Geoscience Atlas at <https://geoscan.nrcan.gc.ca/default.html>.

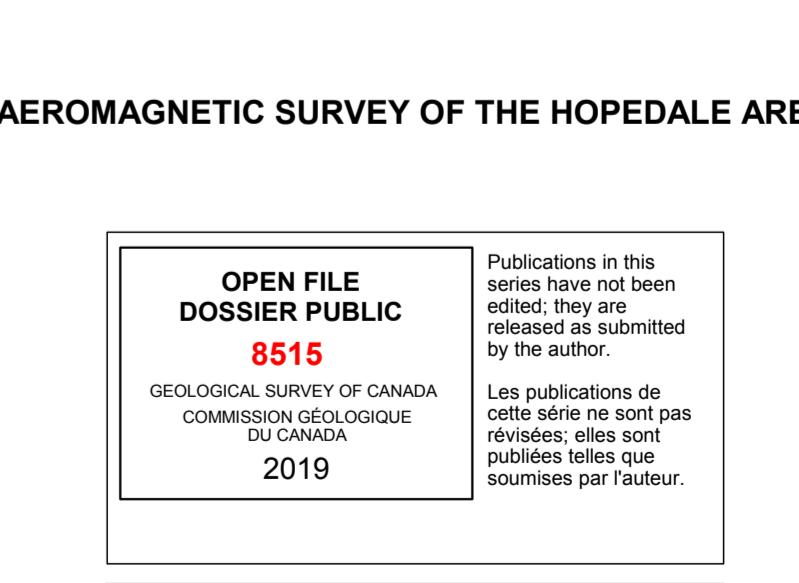
Acknowledgment:
The field crew chiefs, Richard Bailey and Khorram Khan (EON), are thanked for their cooperation and their technical assistance during the start-up phase of this survey. We also thank Marc Richard (EON) for his cartographic design expertise.



NTS map sheets numbers in black
GSC Open File numbers in blue
GSNL Open File numbers in red



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND GEOPHYSICAL MAP INDEX



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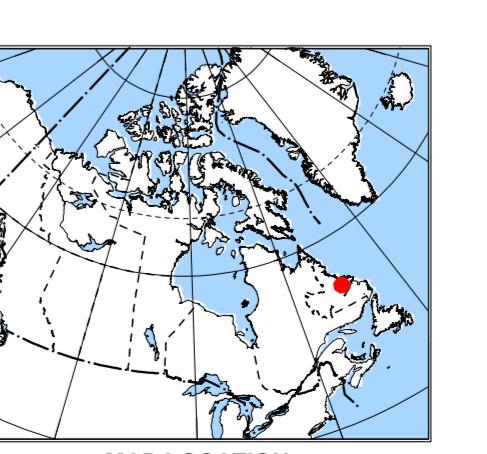
GEOLOGICAL SURVEY OF CANADA OPEN FILE 8515
NEWFOUNDLAND AND LABRADOR DEPARTMENT OF NATURAL RESOURCES, GEOLOGICAL SURVEY OPEN FILE LAB/1737, MAP 2019-03

RESIDUAL TOTAL MAGNETIC FIELD

AEROMAGNETIC SURVEY OF THE HOPEDEALE AREA

NEWFOUNDLAND AND LABRADOR
PARTS OF NTS 13-M/SOUTH AND 13-N/SOUTH

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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