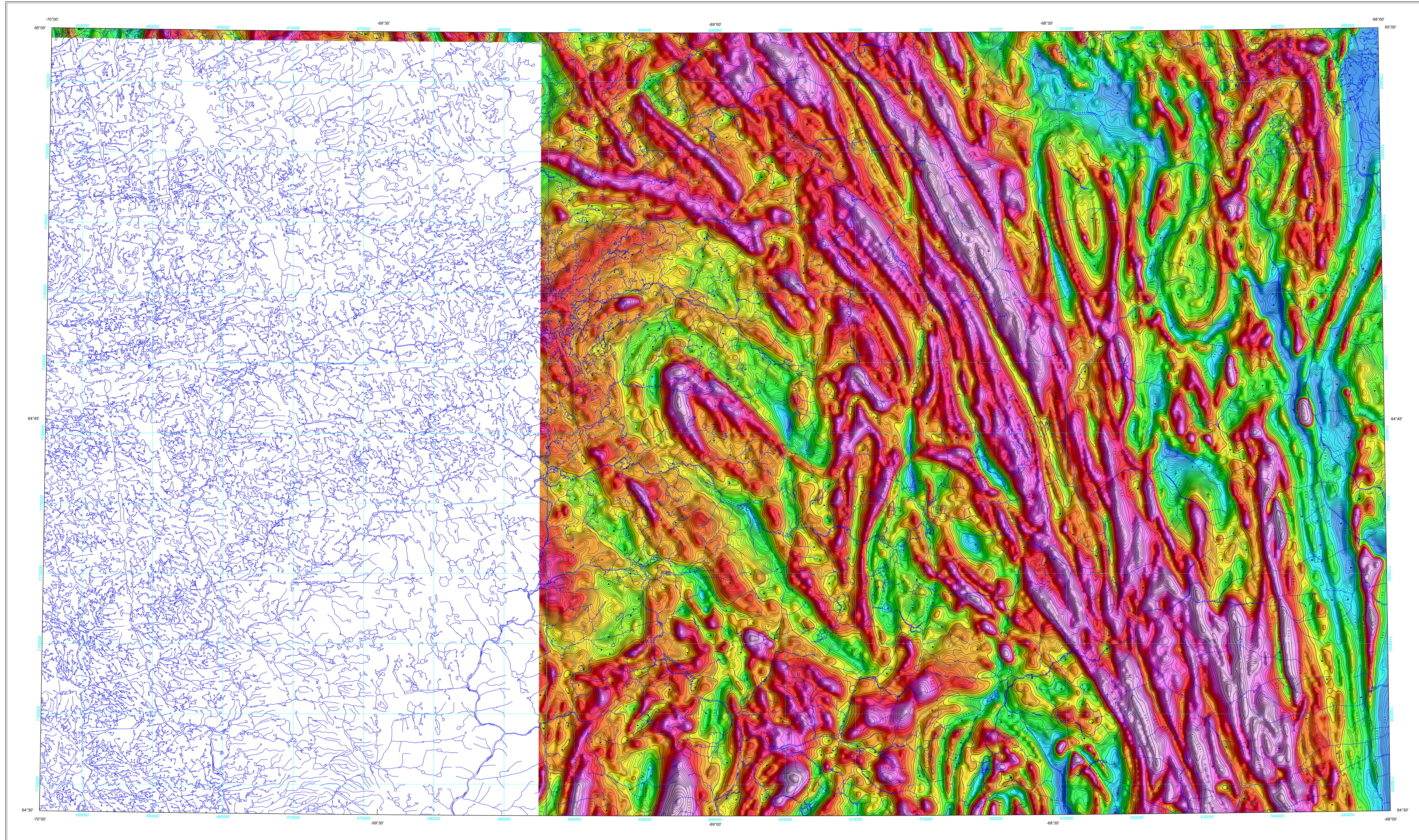




RESIDUAL TOTAL MAGNETIC FIELD

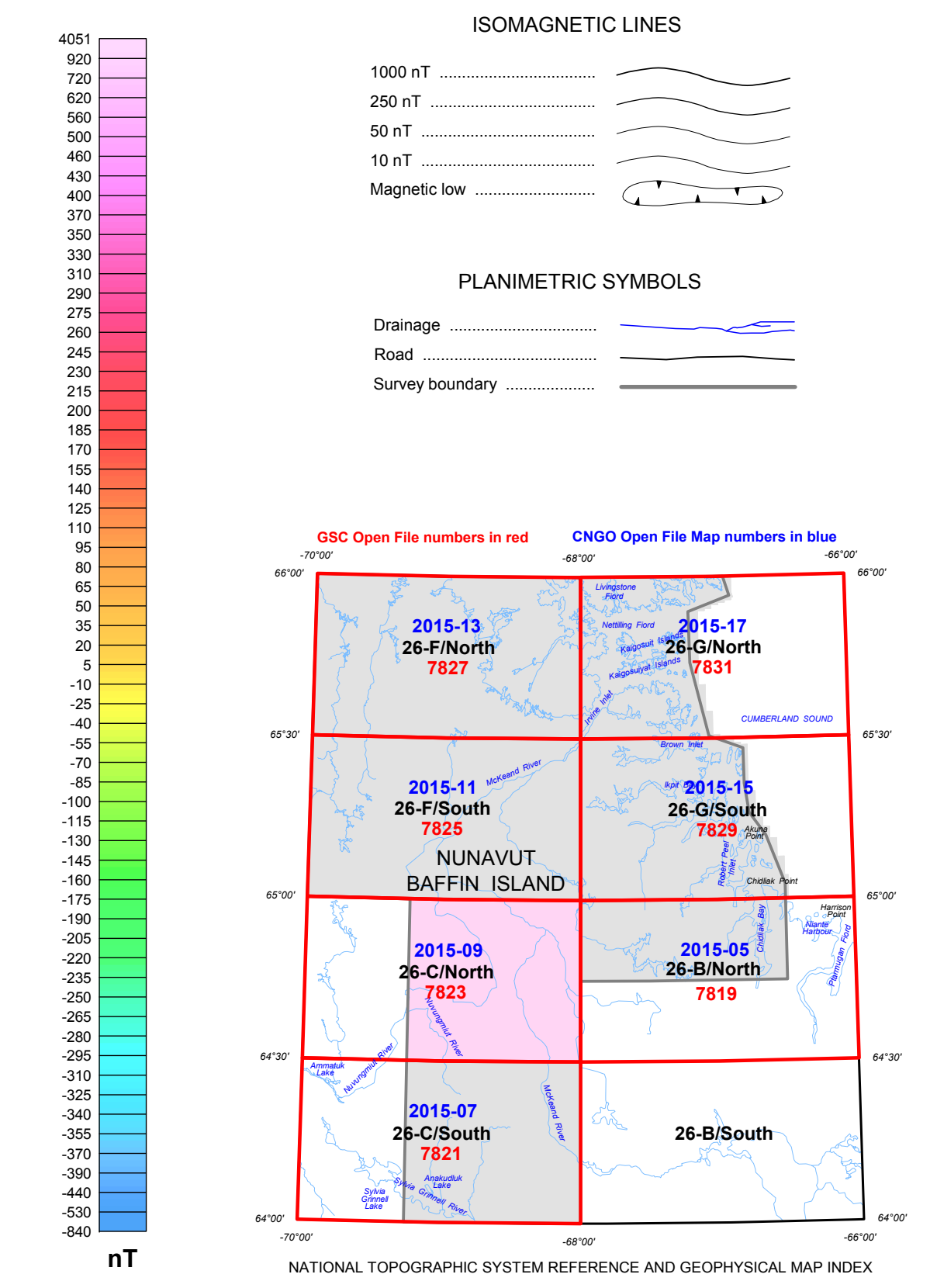


Residual Total Magnetic Field

This map of the residual total magnetic field was derived from data acquired during an aeromagnetic survey carried out by Geo Data Solutions GDS Inc. from August 5, 2014 to March 24, 2015. The data were recorded using split-beam cesium vapour magnetometers (sensitivity = 0.005 nT) mounted in each of the tail booms of two Piper Navajo aircraft (C-171L and C-170B) and a Beechcraft King Air aircraft (C-FLRB). The nominal traverse and control line spacings were, respectively, 400 m and 2400 m, and the aircraft flew at a nominal terrain clearance of 150 m. Traverse lines were oriented E-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-averaged to obtain a mutually levelled set of flightline magnetic data. The levelled values were then interpolated to a 100 m grid. The International Geomagnetic Reference Field (IGRF) defined at the average GPS altitude of 499 m for the year 2014.201 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 GEOSCAN (<http://geoscan.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://gdr.gsc.nrcan.gc.ca/index\\_e.html](http://gdr.gsc.nrcan.gc.ca/index_e.html). The same products are also available, for a fee, from the Geophysical Data Centre, Geological Survey of Canada, 615 Booth Street, Ottawa, Ontario K1A 0E9. Telephone: (613) 995-5326, email: [info.gsc@nrcan.gc.ca](mailto:info.gsc@nrcan.gc.ca).

Digital versions of this map, as well as corresponding digital profile and gridded data, may also be downloaded free of charge from the Canada-Nunavut Geoscience Office website: <http://nrcan.gc.ca>



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GEOLOGICAL SURVEY OF CANADA OPEN FILE 7823  
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RESIDUAL TOTAL MAGNETIC FIELD

AEROMAGNETIC SURVEY OF THE MCKEAND RIVER AREA

Authors: F. Kiss and V. Tschirhart

Data acquisition, data compilation and map production by Geo Data Solutions GDS Inc., Level, Québec. Contract and project management by the Geological Survey of Canada, Ottawa, Ontario.

doi:10.4095/296386

Part of NTS 26-C/North

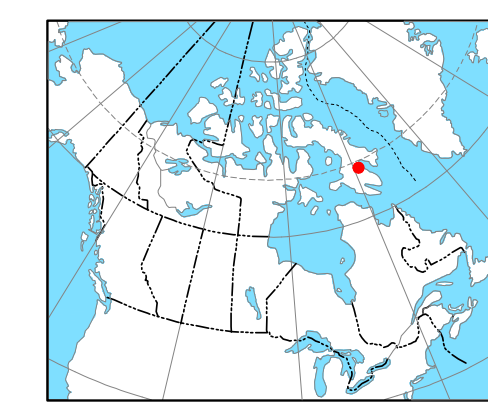
NUNAVUT

Scale 1:100 000



Universal Transverse Mercator Projection  
Datum: North American 1983  
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Digital Topographic Data provided by Geomatics Canada, Natural Resources Canada.



MAP LOCATION

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