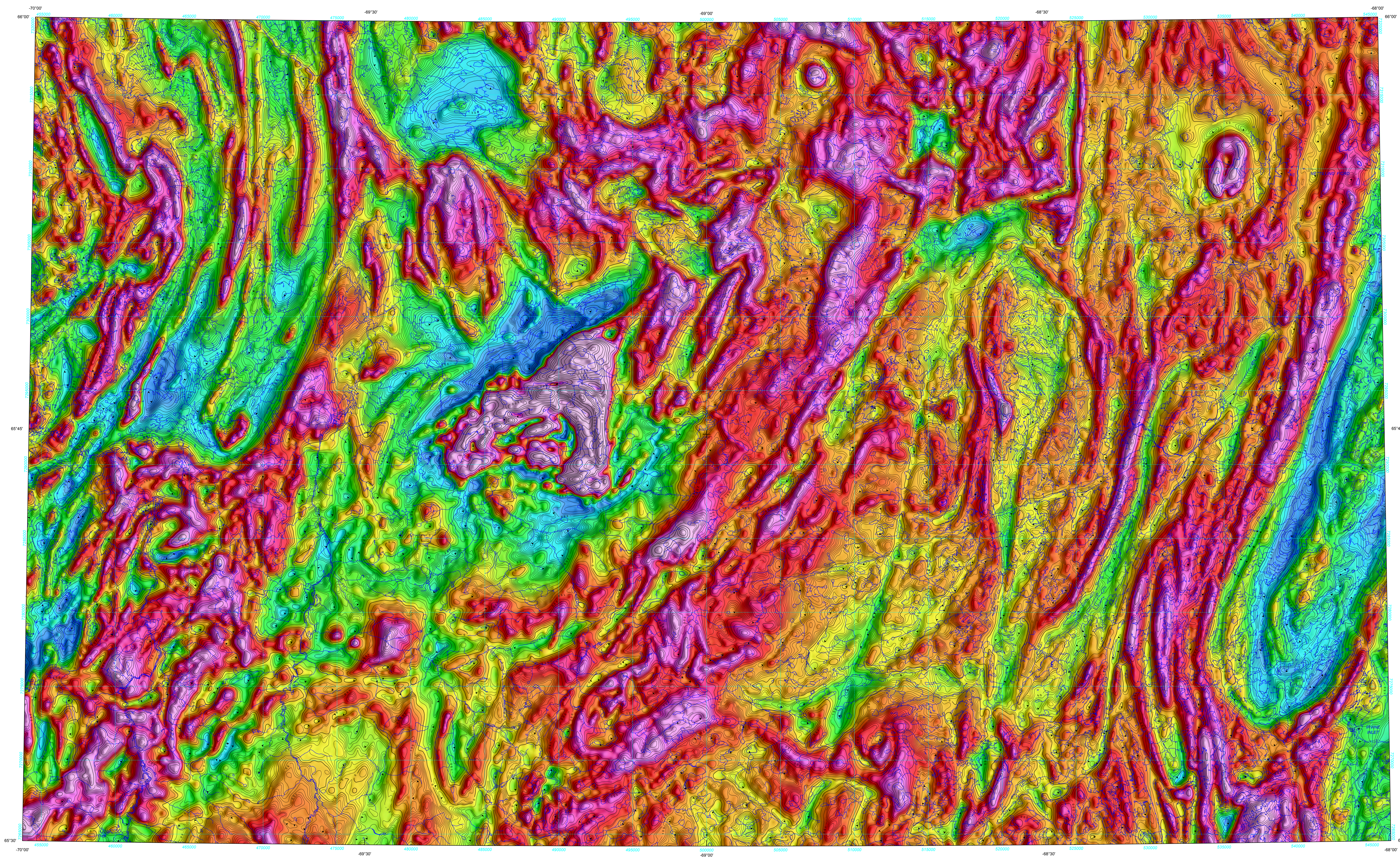




RESIDUAL TOTAL MAGNETIC FIELD

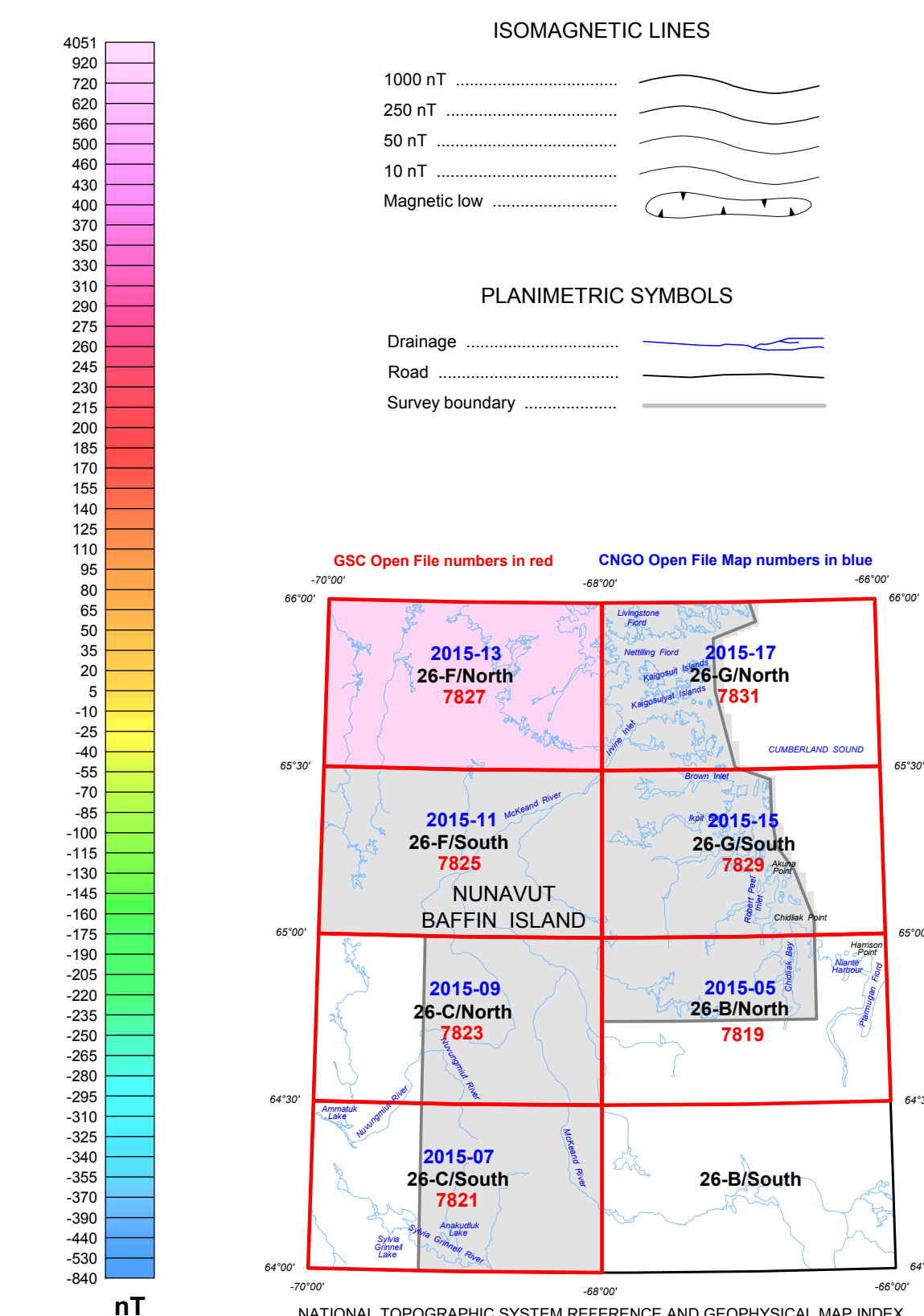


Residual Total Magnetic Field

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-171) 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 light 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 flightline magnetic data. The leveled values were then interpolated to a 100 m grid. The International Geomagnetic Reference Field (IGRF) defined at the average GPS altitude of 400 m for the year 2014.01 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://url.gov.nrcan.gc.ca/geodata>. 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@geoscan.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.ca>.



Financial support for this project was provided by the Canadian Northern Economic Development Agency's (CanNor) Strategic Investments in Northern Economic Development (SINED) program to the Canada-Nunavut Geoscience Office.

GEOLOGICAL SURVEY OF CANADA OPEN FILE 7827
CANADA-NUNAVUT GEOSCIENCE OFFICE OPEN FILE MAP 2015-13

RESIDUAL TOTAL MAGNETIC FIELD

AEROMAGNETIC SURVEY OF THE MCKEAND RIVER AREA

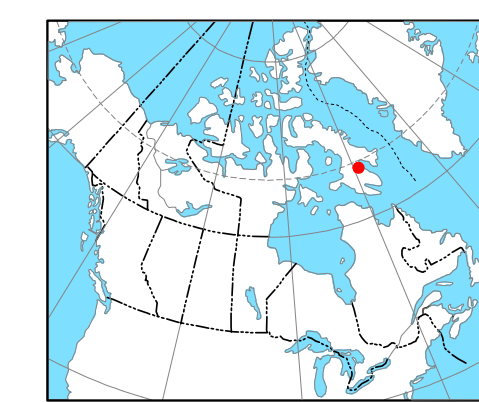
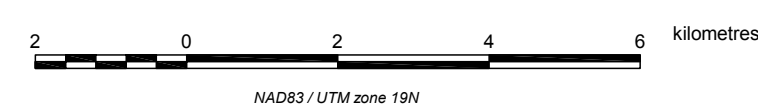
Authors: F. Kiss and V. Tschirhart

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

doi:10.4095/296390

NTS 26-F/North
NUNAVUT

Scale 1:100 000



MAP LOCATION

<p>OPEN FILE DOSSIER PUBLIC 7827</p> <p>GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA 2015</p>	<p>Publications in this series have not been edited or substantiated by the author.</p> <p>Les publications de cette série n'ont pas été vérifiées ni corrigées par l'auteur.</p>	<p>OPEN FILE MAP DOSSIER PUBLIC 2015-13</p> <p>GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA 2015</p>	<p>Publications in this series represent cartographically updated work.</p> <p>Les publications de cette série représentent des mises à jour cartographiques.</p>
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Recommended citation:
Kiss, F. and Tschirhart, V., 2015. Residual Total Magnetic Field, Aeromagnetic Survey of the McKeand River Area, NTS 26-F/North, Nunavut. Geological Survey of Canada, Open File 7827. Canada-Nunavut Geoscience Office, Open File Map 2015-13, scale 1:100 000, doi:10.4095/296390.