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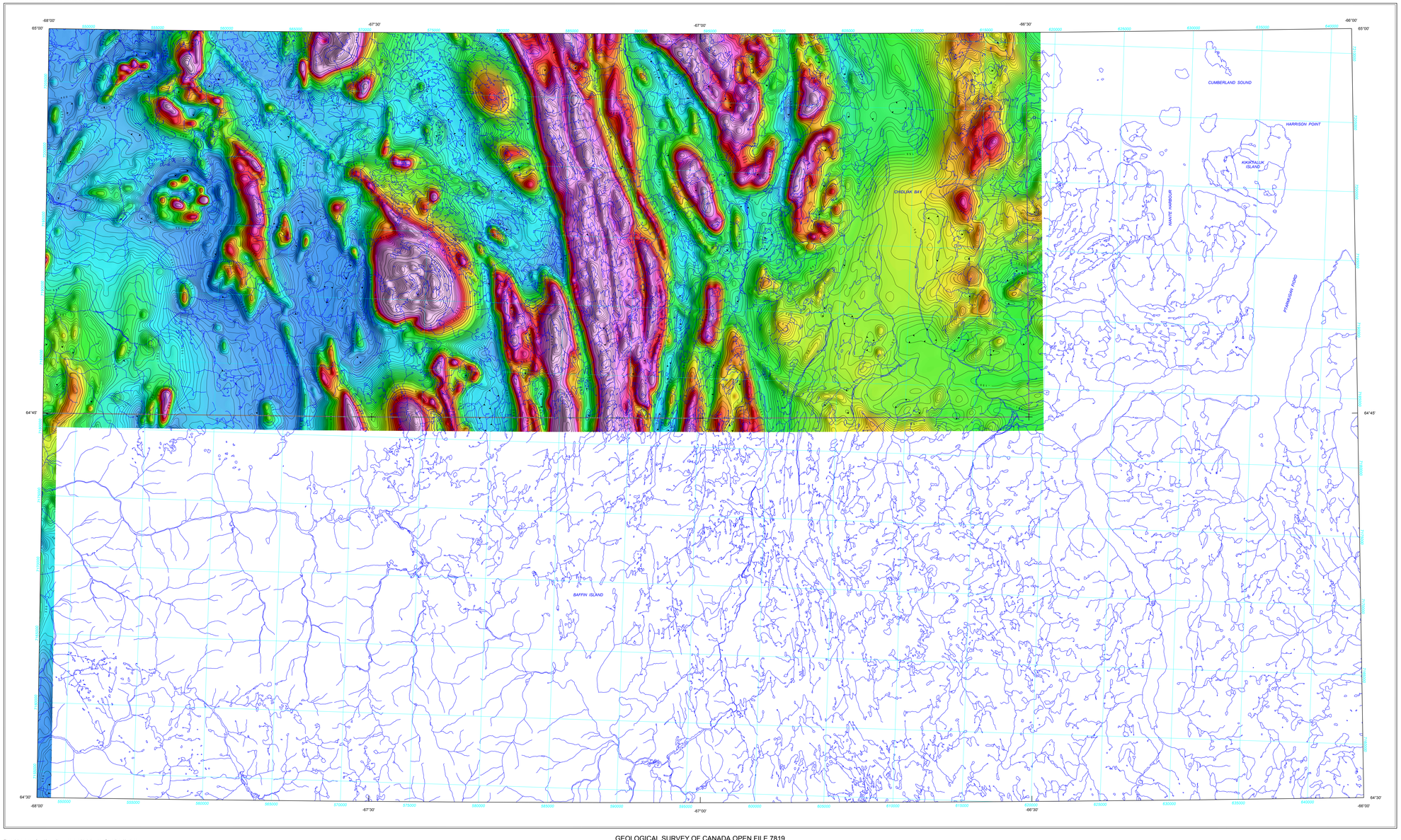
KANATAMI-NUNAVUMI GEOSCIENCE TITIGAKVIIT

RESIDUAL TOTAL MAGNETIC FIELD

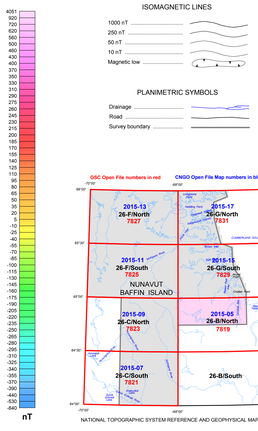


Residual Total Magnetic Field

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-FVTL and C-FQQB) 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-analysed to obtain a mutually levelled set of flight-line 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 2014.901 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.agg.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: infogdc@agg.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://cngo.ca.



AEROMAGNETIC SURVEY OF THE McKEAND RIVER AREA

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RESIDUAL TOTAL MAGNETIC FIELD

AEROMAGNETIC SURVEY OF THE McKEAND RIVER AREA

Part of NTS 26-B/North

NUNAVUT

Authors: F. Kiss and V. Tschirhart

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Scale 1:100 000

2 0 2 4 6 kilometres

NAD83 / UTM zone 19N

Universal Transverse Mercator Projection
North American Datum 1983

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MAP LOCATION

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2015

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OPEN FILE MAP
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