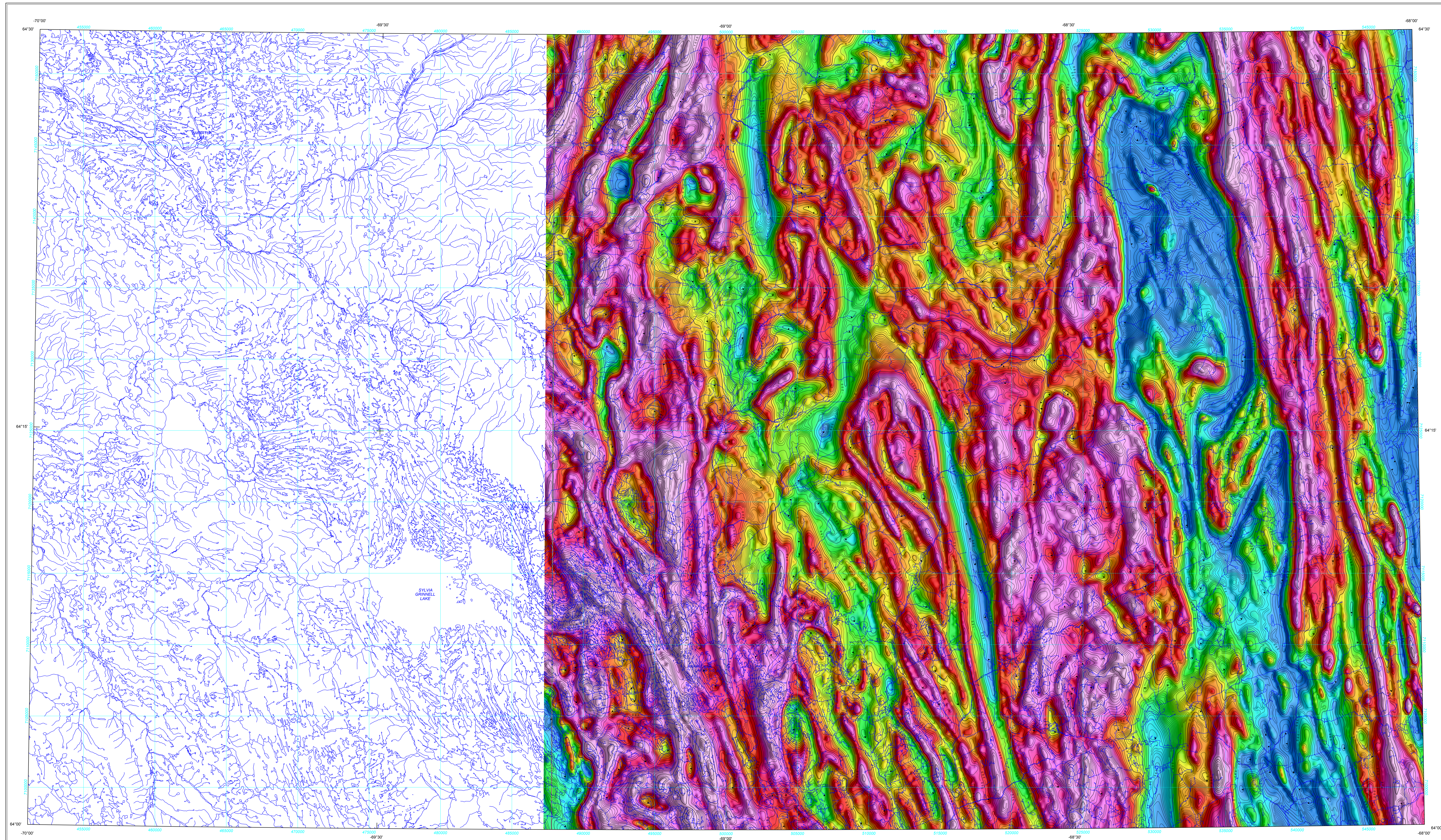


RESIDUAL TOTAL MAGNETIC FIELD



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, and by Natural Resources Canada's Geomapping for Energy and Mineral (GEM) program to the Geological Survey of Canada.

GEOLOGICAL SURVEY OF CANADA OPEN FILE 7821
CANADA-NUNAVUT GEOSCIENCE OFFICE OPEN FILE MAP 2015-07

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., Laval, Quebec.
Contract and project management by
the Geological Survey of Canada, Ottawa, Ontario.

doi:10.4095/296384

Part of NTS 26-C/South

NUNAVUT

Scale 1:100 000



Universal Transverse Mercator Projection

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources Canada, 2015

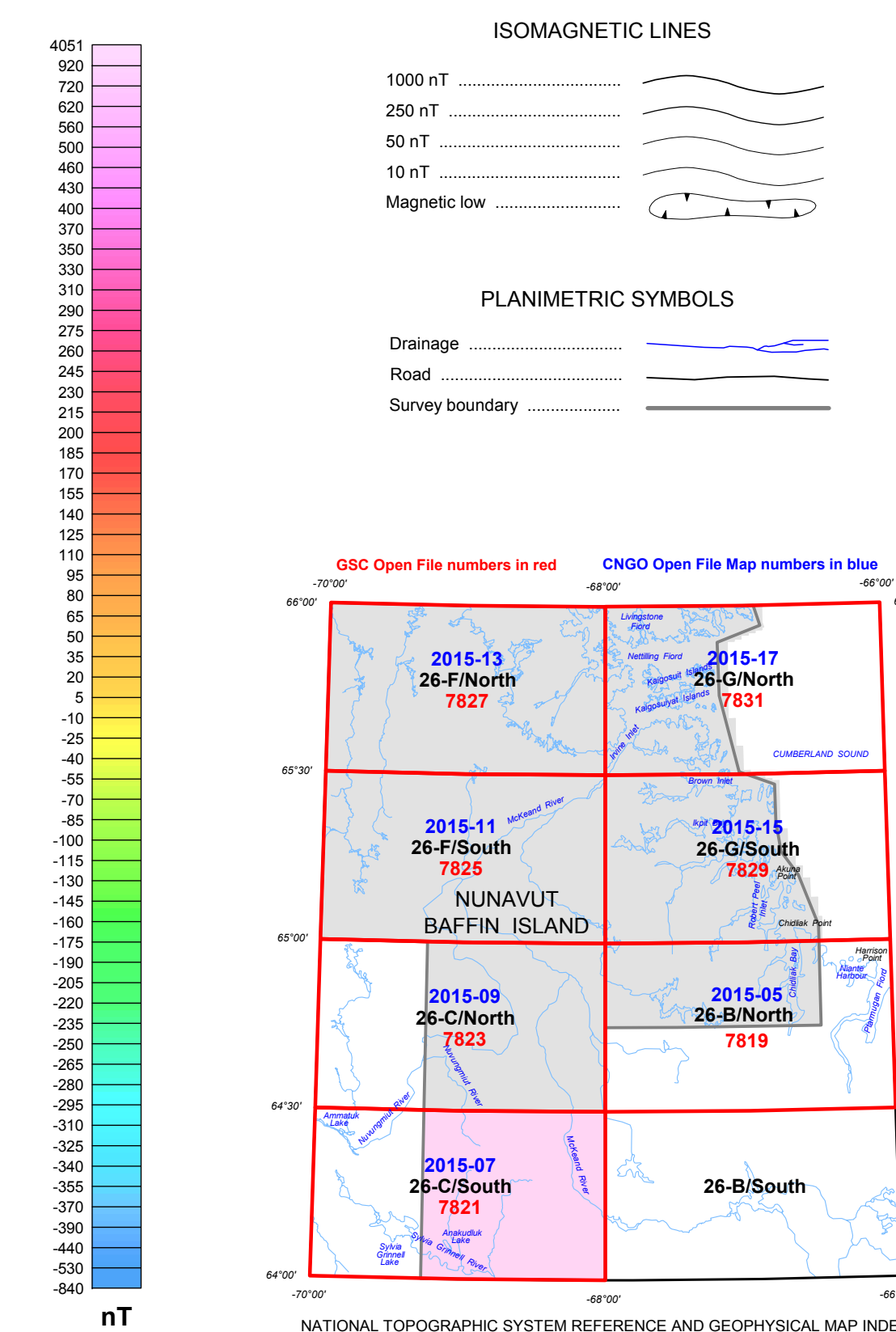
Digital Topographic Data provided by Geomatics Canada, Natural Resources Canada

Residual Total Magnetic Field

This map of the residual topographic field was derived from data acquired during an aerometric survey carried out by Geo Data Solutions GDS Inc. from August 5, 2014 to March 24, 2015. The data were recorded using spirit-borne cesium vapour magnetometers (sensitivity ± 0.05 nT) mounted in a Cessna 441 aircraft. The flight path was designed to cover the entire area of the aircraft (C-FLRB). The nominal traverse and control line spacings were, respectively, 400 m and 2400 m. The flight path was designed to cover the entire area of the aircraft (C-FLRB) and to be orthogonal to 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 digital camera. The flight path was then corrected for any remaining systematic errors. The differences in magnetic values at the intersections of control and traverse lines. These differences were then interpolated to a 100 m grid. The International Geomagnetic Reference Field (IGRF) defined at the average GPS altitude of 490 m for the year 2014.901 was then removed. Removal of the IGRF from the magnetic field data resulted in a residual magnetic field (residual) that is 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: info@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://cnngo.ca>.



AEROMAGNETIC SURVEY OF THE McKEAND RIVER AREA

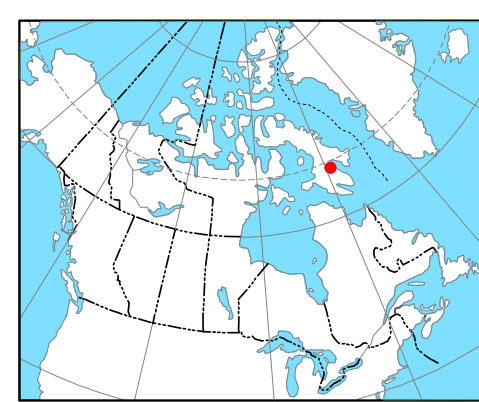
OPEN FILE
DOSSIER PUBLIC
7821
GEOLOGICAL SURVEY OF CANADA

Publications in this series have not been edited; they are released as submitted by the author.

Les publications de cette série n'ont pas été éditées; elles sont publiées telles qu'elles ont été soumises par l'auteur.

OPEN FILE MAP
2015-07

Recommended citation:
Kiss, F. and Tschirhart, V., 2015.
Residual Total Magnetic Field,
Aeromagnetic Survey of the McKeand River Area,
Part of NTS 28-C/South, Nunavut.
Geological Survey of Canada, Open File 7621;
Canada-Nunavut Geoscience Office, Open File Map 2015-07
scale 1:100 000. doi:10.4095/296384



MAP LOCATION