

Residual Total Magnetic Field

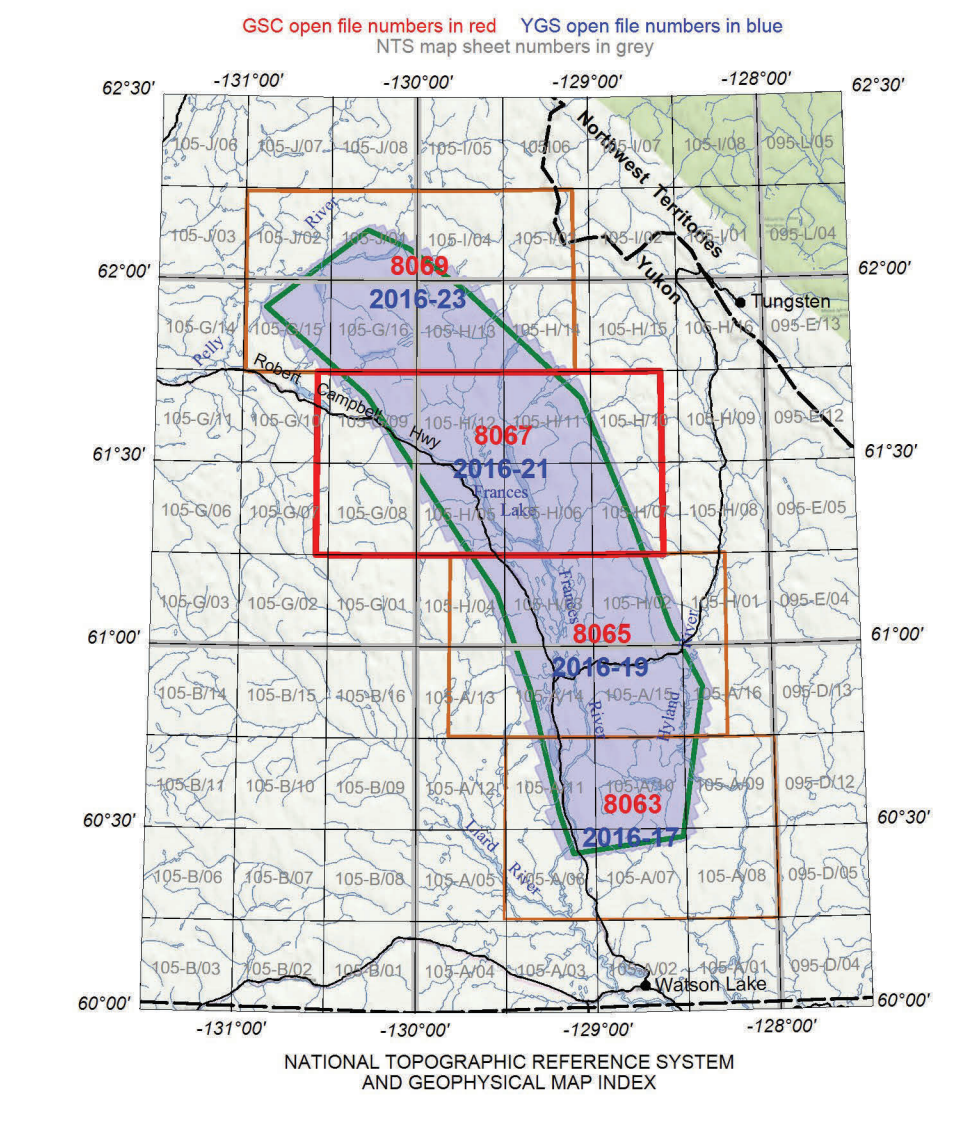
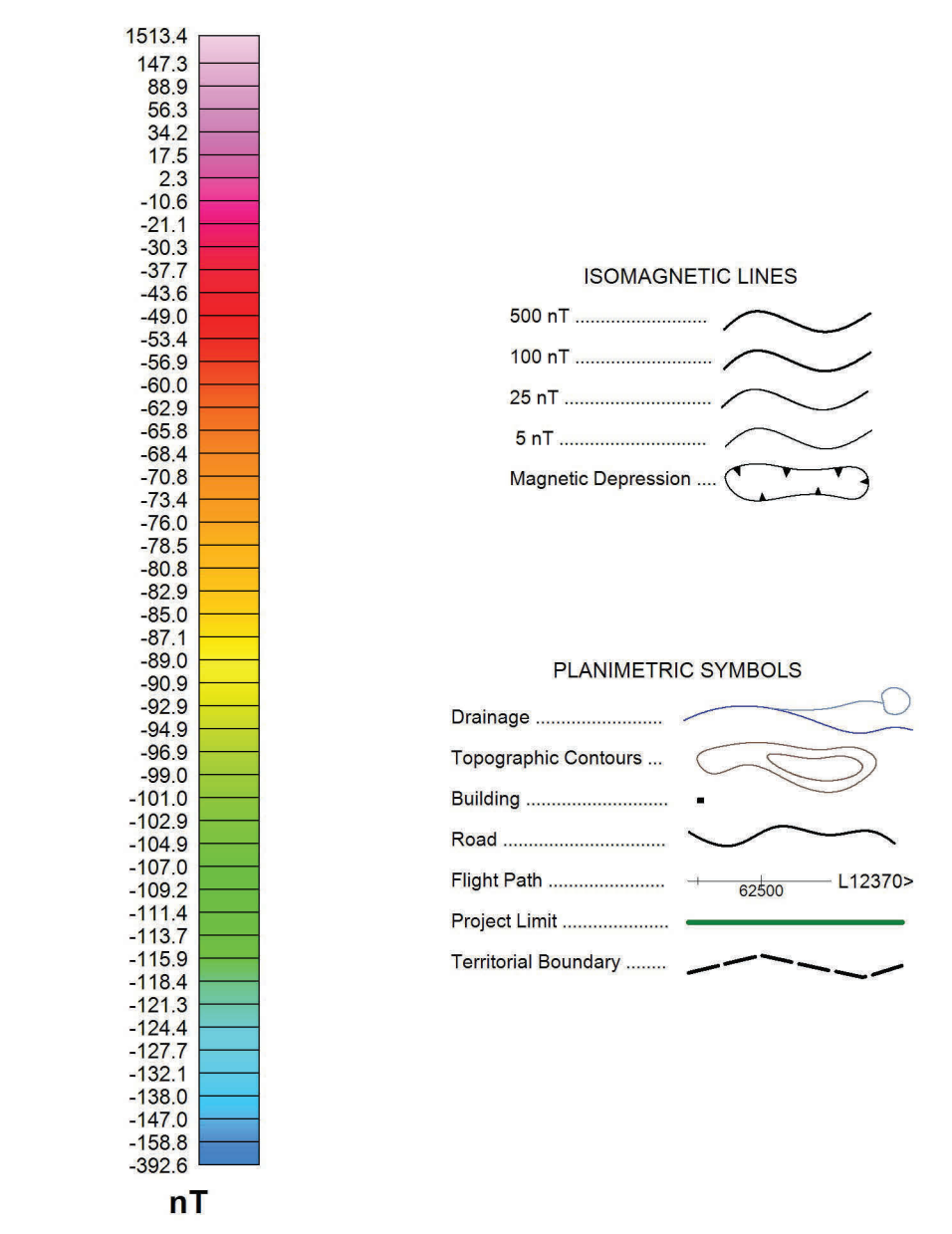
This map of the residual total magnetic field was derived from data acquired during an aeromagnetic survey carried out by Sander Geophysics Limited from March 2, 2016 to April 11, 2016. The data were recorded using split-beam cesium vapour magnetometers (sensitivity = 0.005 nT) mounted in each of the tail booms of two Bitter-Norman Islander aircraft (G-GSQR and G-GSQD). The nominal traverse and control line spacings were, respectively, 400 m and 2400 m, and the aircraft flew at a nominal terrain clearance of 120 m. Traverse lines were oriented N07.5°E 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 computationally 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 1600 m for the year 2016.23 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.nrcan.gc.ca/geoscan/canada/>. The same products are also available, for a fee, from the Geophysical Data Centre, Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8. Telephone: (613) 993-5326, email: info@geoscan.gc.ca.

Copies of this map may also be obtained from the Yukon Geological Survey, Energy, Mines and Resources, Government of Yukon, P.O. Box 2703 (K-102), Whitehorse, Yukon, Y1A 2C6. Telephone: (867) 667-3201, email: geology@gov.yk.ca, website: <http://www.geology.gov.yk.ca>.

Acknowledgements

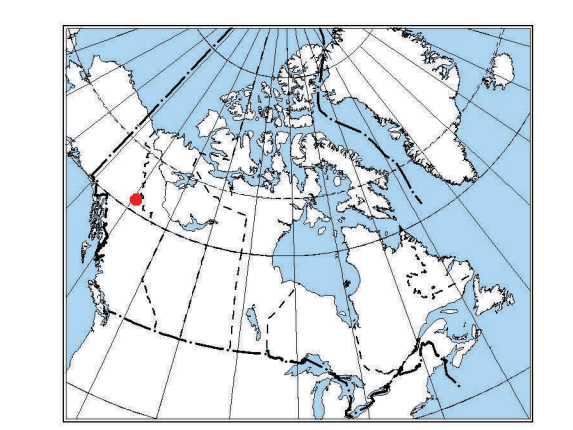
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RESIDUAL TOTAL MAGNETIC FIELD
AEROMAGNETIC SURVEY OF THE FRANCES LAKE AREA
 YUKON
 NTS 105-H/6, 12 and parts of 105-G/9, H/5, 7, 10, 11
 Scale 1:100 000



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 YUKON GEOLOGICAL SURVEY