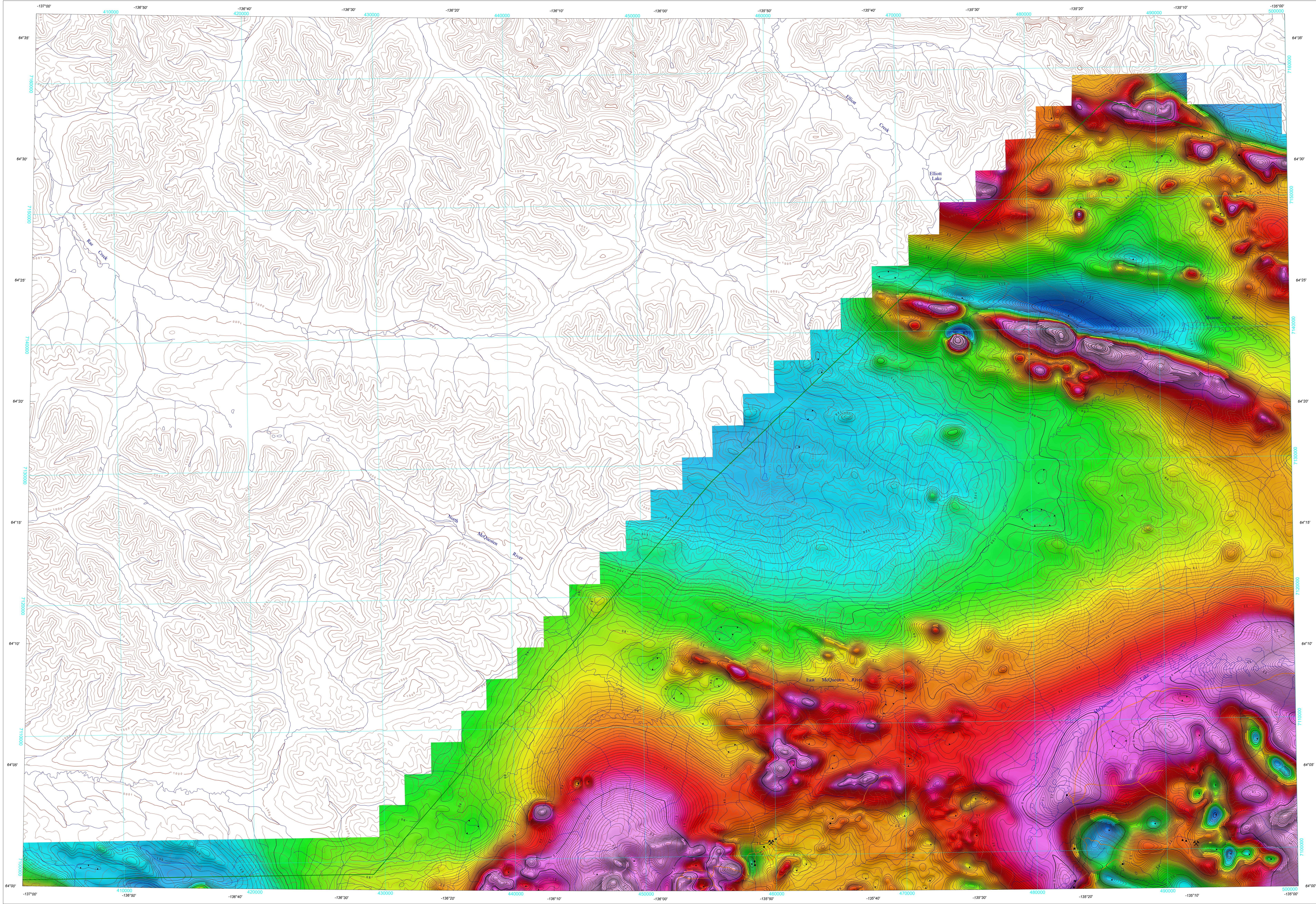


RESIDUAL TOTAL MAGNETIC FIELD



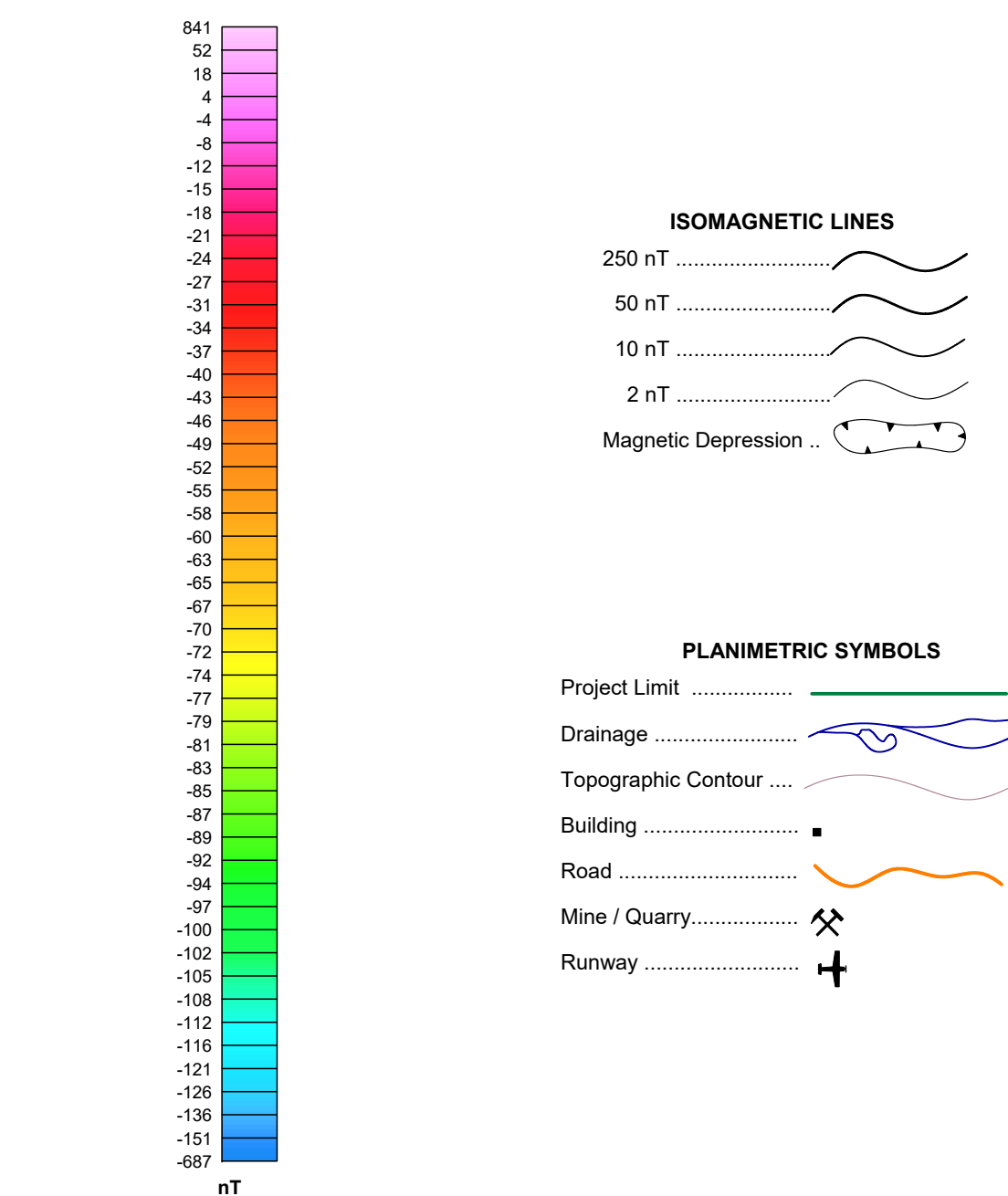
Residual Total Magnetic Field

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 January 19, 2020 to March 20, 2020. The data were recorded using a self-beam centimetre vector magnetometer (sensitivity = 0.005 nT) mounted in the tail boom of a Beechcraft King Air aircraft (C-F-LRB). The nominal traverse and control line spacing were, respectively, 400 m and 2400 m, and the aircraft flew at a nominal terrain clearance of 160 m. Traverse lines were oriented North with orthogonal control lines. The flight path was recovered following post-flight differential corrections to the real-time 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 inverted set of high-line magnetic data. The inverted values were then interpolated to a 100 m grid. The International Geomagnetic Reference Field (IGRF) defined at the average GPS altitude of 1620 m for the year 2020.2 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 GEOCAN (<http://geocan.mn.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.agr.mn.ca>. For more information about this survey, please contact the Geophysical Data Centre, Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0G8. Telephone: (613) 995-5326, email: [rcan.info@info.gc.ca](mailto:rcan.info@info.gc.ca).

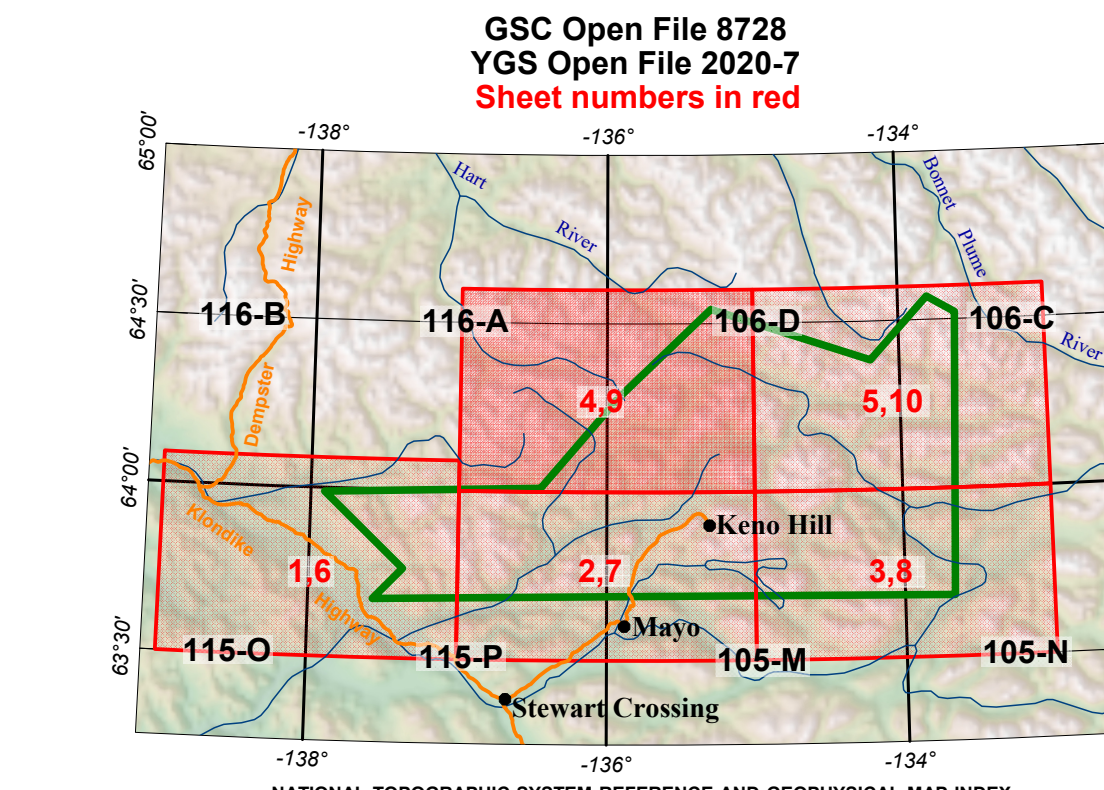
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MAP SHEET SUMMARY

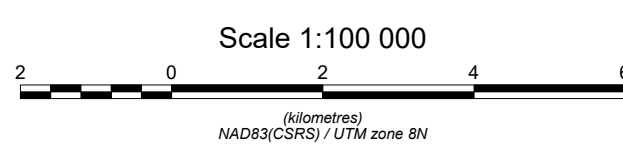
- Sheet 1: Residual Total Magnetic Field, parts of NTS 115-P (north half) and 116-A (south half)
- Sheet 2: Residual Total Magnetic Field, parts of NTS 105-M (north half) and 115-P (north half)
- Sheet 3: Residual Total Magnetic Field, parts of NTS 105-M, N (north halves)
- Sheet 4: Residual Total Magnetic Field, parts of NTS 116-A (south half) and 106-D
- Sheet 5: Residual Total Magnetic Field, parts of NTS 106-C, D
- Sheet 6: First Vertical Derivative of the Magnetic Field, parts of NTS 115-P (north half) and 116-A (south half)
- Sheet 7: First Vertical Derivative of the Magnetic Field, parts of NTS 105-M (north half) and 115-P (north half)
- Sheet 8: First Vertical Derivative of the Magnetic Field, parts of NTS 105-M, N (north halves)
- Sheet 9: First Vertical Derivative of the Magnetic Field, parts of NTS 116-A (south half) and 106-D
- Sheet 10: First Vertical Derivative of the Magnetic Field, parts of NTS 106-C, D



AEROMAGNETIC SURVEY OF THE NASH CREEK AREA  
YUKON

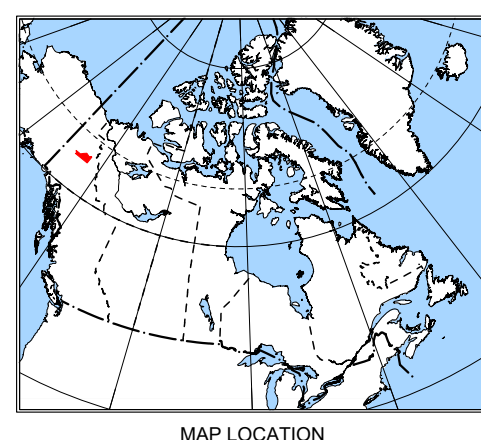
Author: F. Kiss  
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YUKON GEOLOGICAL SURVEY OPEN FILE 2020-7  
AEROMAGNETIC SURVEY OF THE NASH CREEK AREA  
YUKON  
PARTS OF NTS 105-M, N, 106-C, D, 115-P AND 116-A  
RESIDUAL TOTAL MAGNETIC FIELD  
PARTS OF NTS 116-A (SOUTH HALF) AND 106-D



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Base map at the scale of 1:250 000 from Natural Resources Canada, with modifications  
Elevations are in metres above sea level

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