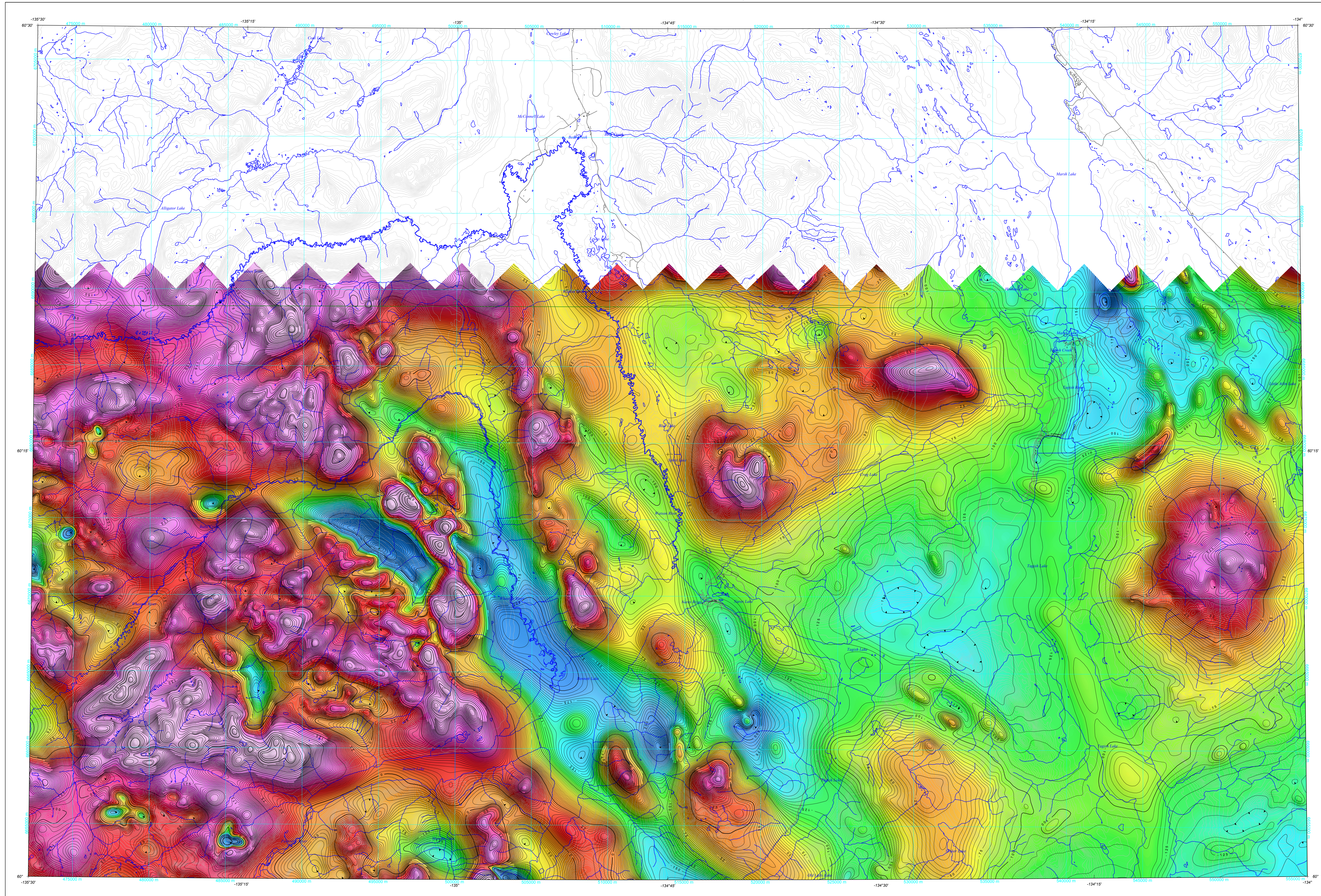


RESIDUAL TOTAL MAGNETIC FIELD



Residual Total Magnetic Field

This map of the residual total magnetic field was derived from data acquired during an aeromagnetic survey carried out by Goldak Airborne Surveys from March 10, 2017 to July 6, 2017. The nominal traverse and control line spacings were, respectively, 400 m and 2400 m, and the airplane flew at a nominal terrain clearance of 150 m. Traverse lines were oriented N45E 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 1500 m for the current mid-survey date of 2017/06/08 was 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 Geophysical Data at http://gdr.gsc.nrcan.gc.ca/index_e.html. 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) 947-3337, email: NRCAN.geoscience@nrcan.gc.ca.

These data are also available for free download from the Yukon Geological Survey (<http://data.geology.yk.ca/>), P.O. Box 2703 (K-102), Whitehorse, Yukon Y1A 2C6. Telephone: (867) 667-3201, email: geology@gov.yk.ca.

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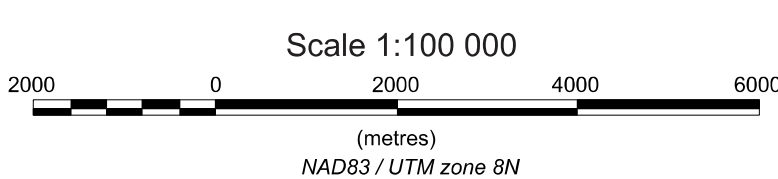
This aeromagnetic survey and the production of this map were funded by Phase 2 of the Geo-Mapping for Energy and Minerals program (GEM-2 Cordillera Project) of the Lands and Minerals Sector, Natural Resources Canada.

GEOLOGICAL SURVEY OF CANADA OPEN FILE 8289
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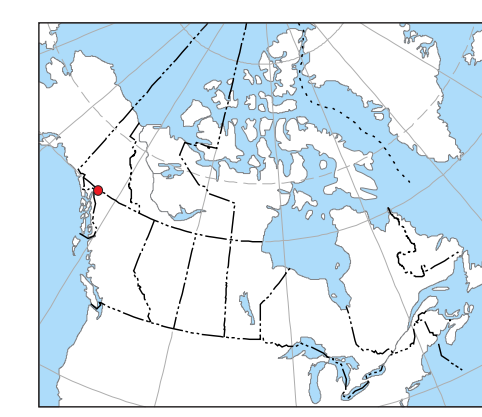
RESIDUAL TOTAL MAGNETIC FIELD

AEROMAGNETIC SURVEY OF THE LLEWELLYN AREA

NTS 105-D/1, 2, 3 and parts of 105-D/6, 7, 8
YUKON



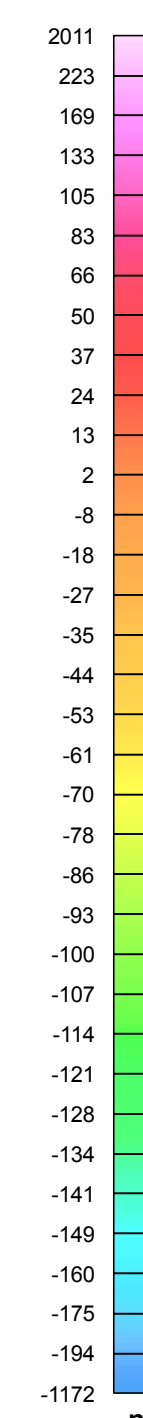
Universal Transverse Mercator Projection
North American Datum 1983
Other Mapping the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017
Digital topographic data from Natural Resources Canada



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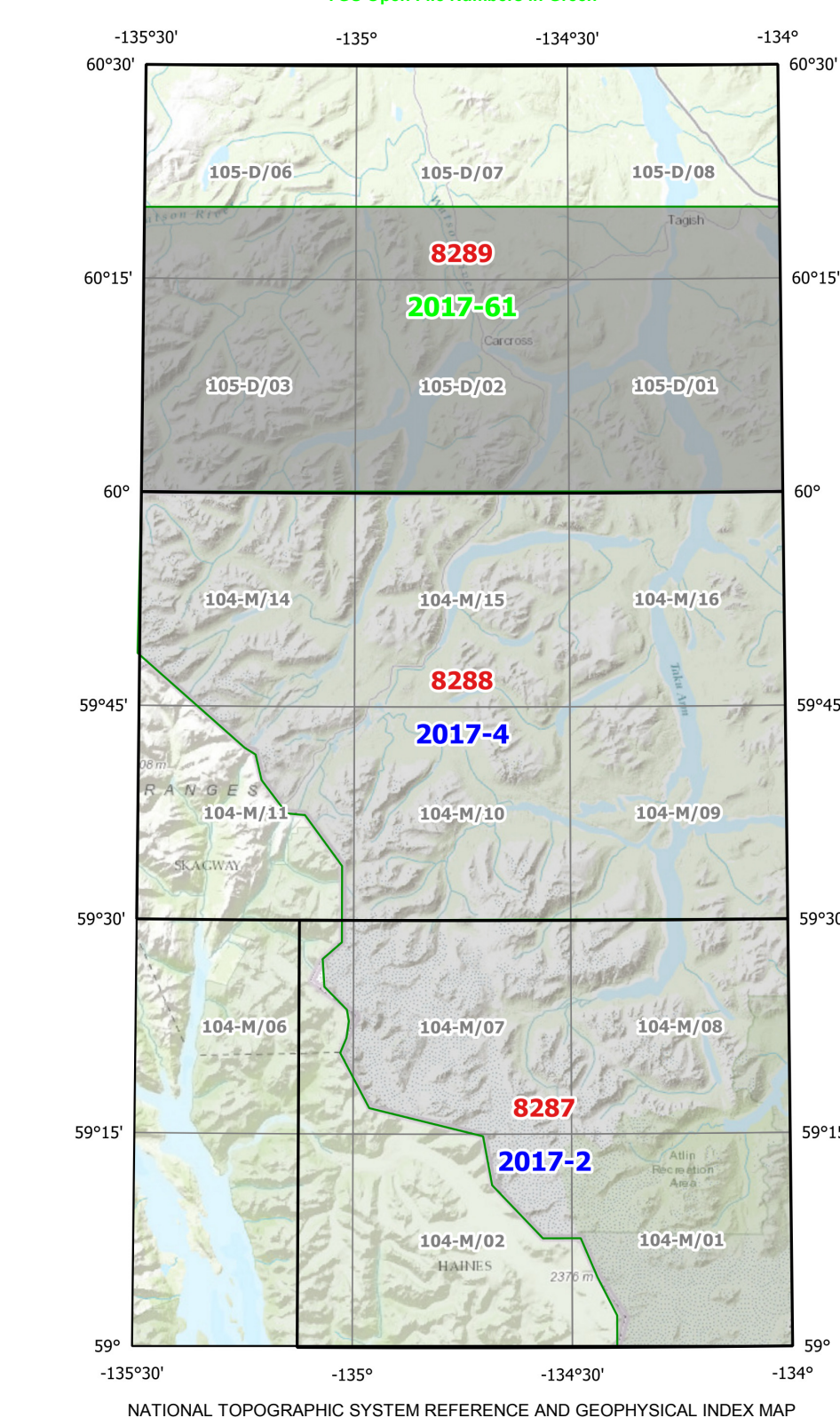
PLANIMETRIC SYMBOLS

- Topographic contour
- Drainage
- Road
- Building
- Project limit
- Territorial boundary

ISOMAGNETIC LINES

- 500 nT
- 100 nT
- 25 nT
- 5 nT
- Magnetic depression

GSC Open File Numbers in Red
BCGS Geoscience Numbers in Blue
YGS Open File Numbers in Green



AEROMAGNETIC SURVEY OF THE LLEWELLYN AREA

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