

**NOTES**

Reprocessing of the magnetic data for Yukon was performed between November 2016 and March 2017. Aeromagnetic data (available through NRCan Geoscience Data Repository for Geophysical Data) were compiled, data of different resolutions were merged, and a series of images individually levelled for each map sheet were produced. For each 1:250 000-scale map, the following magnetic derivative maps were produced:

1. Residual Total Magnetic Field;
2. Reduced-to-Pole Magnetic Field (RTP);
3. First Vertical Derivative of the Reduced-to-Pole Magnetic Field (RTP\_VD); and
4. Tilt Derivative of the Reduced-to-Pole Magnetic Field (RTP\_TDR).

These maps are provided both as GeoTiff and Geosoft grid files. Colour ramps/legends are provided for each map.

The Yukon Geological Survey created georeferenced \*.pdf maps of the shaded relief colour contour products for each 1:250 000 map sheet.

**REFERENCES**

Condor Geophysics, 2013. Selwyn Basin Geophysics: 30Hz Apparent Conductivity for parts of 105I, 105J, 105K, 105N, 105O and 105P. Yukon Geological Survey, Miscellaneous Report 9.

Geological Survey of Canada, 2017. Canadian Aeromagnetic Data Base, Airborne Geophysics Section, Natural Resources Canada. Datasets: Nahanni Area C - Flat River, NWT (2005)

Kiss, F. and Boulanger, O., 2016. Residual Total Magnetic Field, Aeromagnetic Survey of the Frances Lake Area, Yukon, NTS 105A/10 and parts of 105A/6, 7, 9, 11. Yukon Geological Survey Open File 2016-17; also Geological Survey of Canada, Open File 8063.

Miles, W., Saltus, R., Hayward, N. and Oneschuk, D., 2015. Alaska and Yukon Magnetic Compilation, Residual total magnetic field. Geological Survey of Canada, Open File 7862.

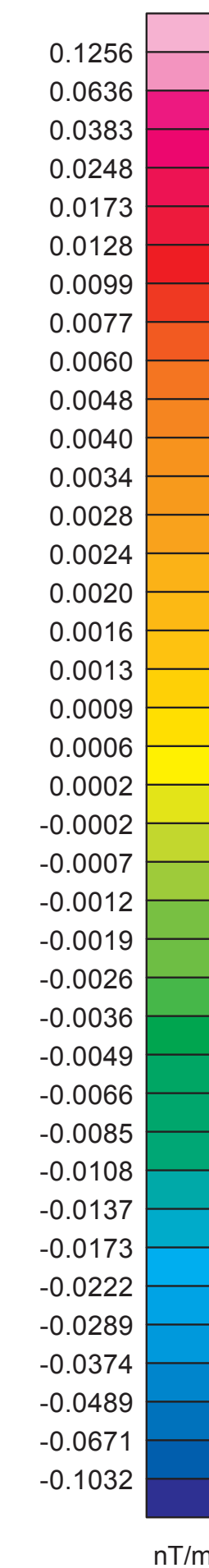
**RECOMMENDED CITATION**

Aurora Geosciences Ltd. and Bruce, J.O., 2017. First vertical derivative of the reduced-to-pole magnetic field, shaded colour contour map (NTS 105I). In: Reprocessing of Yukon magnetic data for NTS 105I. Yukon Geological Survey, Open File 2017-17, scale 1:250 000, sheet 3 of 4.

Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey.

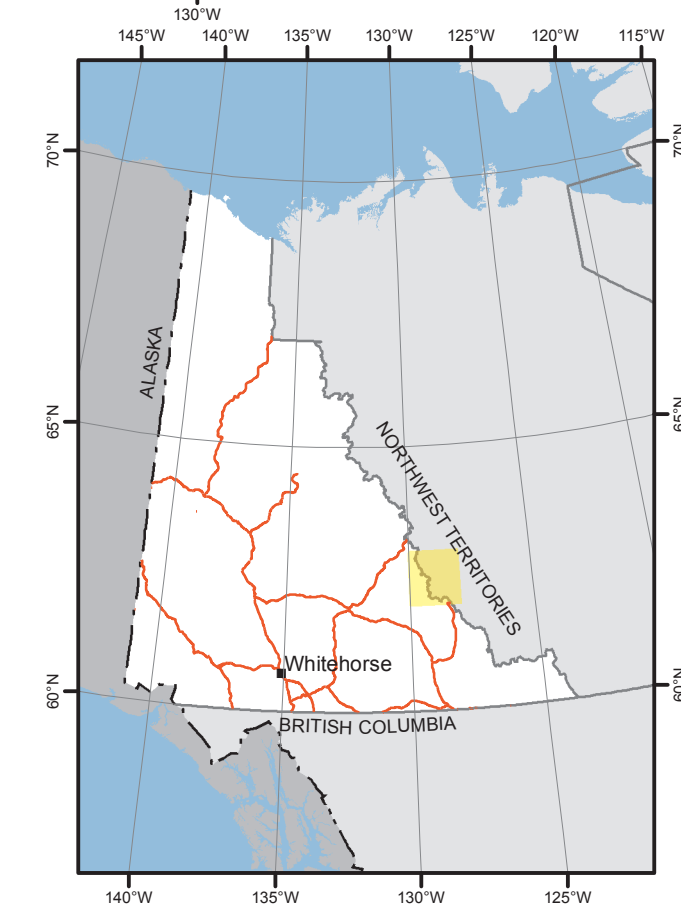
Paper copies of this map and the accompanying report may be obtained from the Yukon Geological Survey, Energy, Mines and Resources, Government of Yukon, Room 102-300 Main St., Whitehorse, Yukon, Y1A 2B5. Ph. 867-667-3201, Email geology@gov.yk.ca.

A digital PDF (Portable Document File) file of this map, and available data, can be downloaded free of charge from the Yukon Geological Survey website: <http://www.geology.gov.yk.ca>.



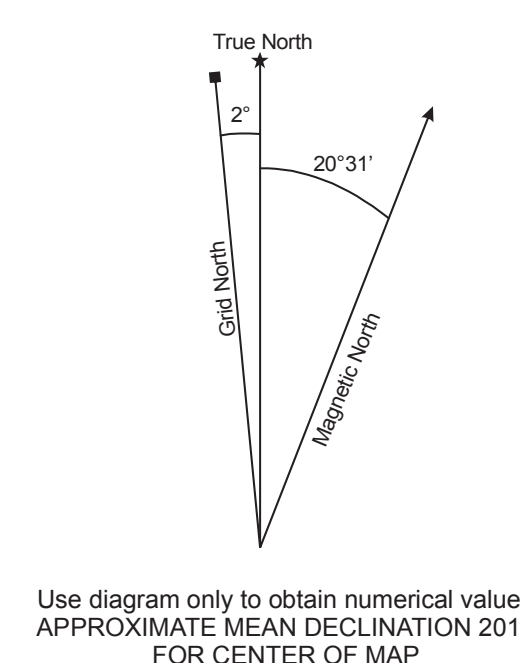
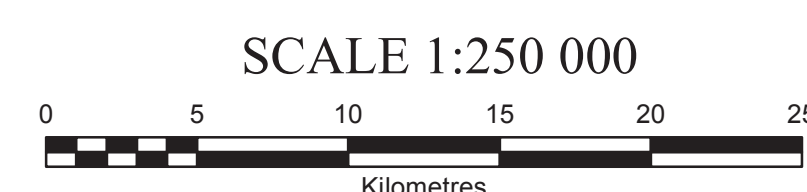
nT/m

- community
- road
- ~ drainage
- watercourse
- waterbody



1:250 000-scale topographic base data produced by CENTRE FOR TOPOGRAPHIC INFORMATION, NATURAL RESOURCES CANADA  
ONE THOUSAND METRE GRID Universal Transverse Mercator Projection North American Datum 1983 Zone 9

FIRST VERTICAL DERIVATIVE OF THE REDUCED-TO-POLE MAGNETIC FIELD LITTLE NAHANNI RIVER (NTS 105I) YUKON



105O NIDDERY LAKE	105P SEKWI MOUNTAINS	095M WRIGLEY LAKE
105J SHELDON LAKE	<b>THIS MAP</b>	095L GLACIER LAKE
105G FINLAYSON LAKE	105H FRANCES LAKE	095E FLAT RIVER

Yukon Geological Survey  
Energy, Mines and Resources  
Government of Yukon

Open File 2017-17  
Sheet 3 of 4

**First Vertical Derivative of the Reduced-to-Pole Magnetic Field Shaded Colour Contour Map (NTS 105I) (1:250 000 scale)**

by  
Aurora Geosciences Ltd.  
and  
J.O. Bruce