

NOTES

Standardization of publicly available digital magnetic data from assessment reports was performed in 2019 and 2020. Residual magnetic field was calculated through removal of the IGRF. A levelled magnetic field channel was calculated by sampling the 1:250 000 compilation grid and taking the mean difference between the residual magnetic field and the overlapping points; this mean difference is applied as zero order datum shift to the residual data. This is repeated for each 1:250 000 compilation that the survey overlaps.

Up to four gridded products are produced for each survey (Residual Total Magnetic Field (TMI), Reduced-to-Pole Magnetic Field (RTP), First Vertical Derivative of the Reduced-to-Pole Magnetic Field (RTP_VD) and Tilt Derivative of the Reduced-to-Pole Magnetic Field (RTP_TDR) and these have pre-existing analogous 1:250 000 products from Open Files 2017-5 to 2017-59.

The outline of the assessment report data is extracted and eroded by a buffer, typically 200 m. The buffer is automatically reduced if it exceeds half the range of either the x or y coordinates. The eroded buffer is then windowed from each of the four corresponding 1:250 000 compilations.

Each assessment report grid is then blended with the compilation grid through averaging common points between the grids. By previously windowing out the eroded assessment report outline from the compilation, both fidelity to the higher quality assessment report data and a smooth transition to avoid edge artifacts are achieved. This is an appropriate approach when the assessment report data are of higher quality than the compilation. Mostly this is true due to the higher resolution of data that is typical of a property-scale survey compared to a government regional-scale survey. However this is not universally the case and for every assessment report each of the four new blended grids are compared with the unaltered compilation. Assessment report grids which upon blending lower the quality of the compilation are manually rejected. A log file of accepted and rejected assessment reports for each 1:250 000 sheet is maintained.

The Yukon Geological Survey created georeferenced *.pdf maps of the shaded relief colour contour products for each 1:250 000 map sheet. The map data are provided as GeoTiff files.

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REFERENCES

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White River Resources Inc., 2007. Assessment Report for White River ("CanAlask") Ni-PGE. Yukon Energy, Mines and Resources Assessment Report 94933.

Atac Resources Ltd. and Auger Resources Ltd., 2007. Assessment Report Describing Geophysical and Geochemical Surveys, Geological Mapping and Prospecting at the Arn Property. Yukon Energy, Mines and Resources Assessment Report 95079.

Strategic Metals Ltd., 2010. Assessment Report Describing Geochemical Sampling and Airborne Geophysical Surveys at the Mint Property. Yukon Energy, Mines and Resources Assessment Report 95421.

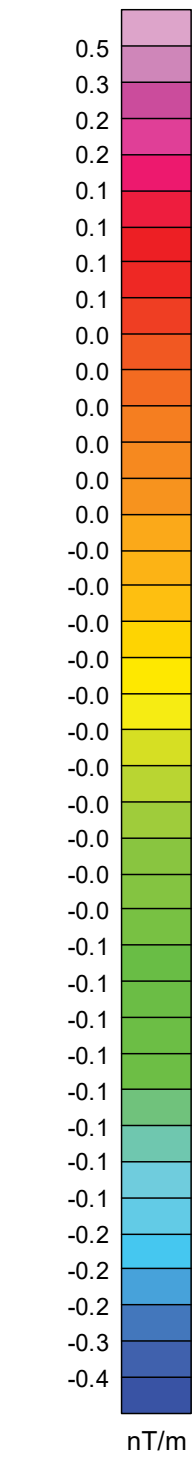
RECOMMENDED CITATION

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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. Email: geology@gov.yk.ca.

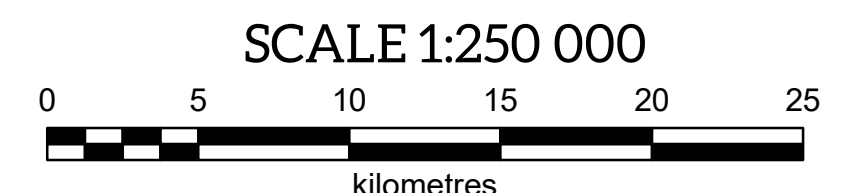
A digital PDF (Portable Document File) file of this map, and available data, can be downloaded free of charge from the Yukon Geological Survey website: <https://yukon.ca/en/science-and-natural-resources/geology>.



- road
- watercourse
- waterbody
- Canada-US border
- Northwest Territories border

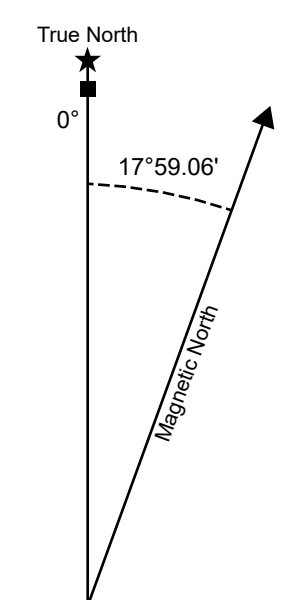


FIRST VERTICAL DERIVATIVE OF THE REDUCED-TO-POLE MAGNETIC FIELD PART OF KLUANE LAKE (NTS 115F) YUKON



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 7



Use diagram only to obtain numerical values APPROXIMATE MEAN DECLINATION 2020 FOR CENTRE OF MAP Annual change 21.5' West

ALASKA	115K PART OF 115J	115J STEVENSON RIDGE
ALASKA	THIS MAP	115G KLUANE LAKE
ALASKA	115C PART OF 115B	115B MOUNT ST ELIAS

Yukon Geological Survey Energy, Mines and Resources Government of Yukon

Open File 2020-30 Sheet 3 of 4

First Vertical Derivative of the Reduced-to-Pole Magnetic Field Shaded Colour Contour Map (NTS 115F) (1:250 000 scale)

by Aurora Geosciences Ltd. and J.O. Bruce