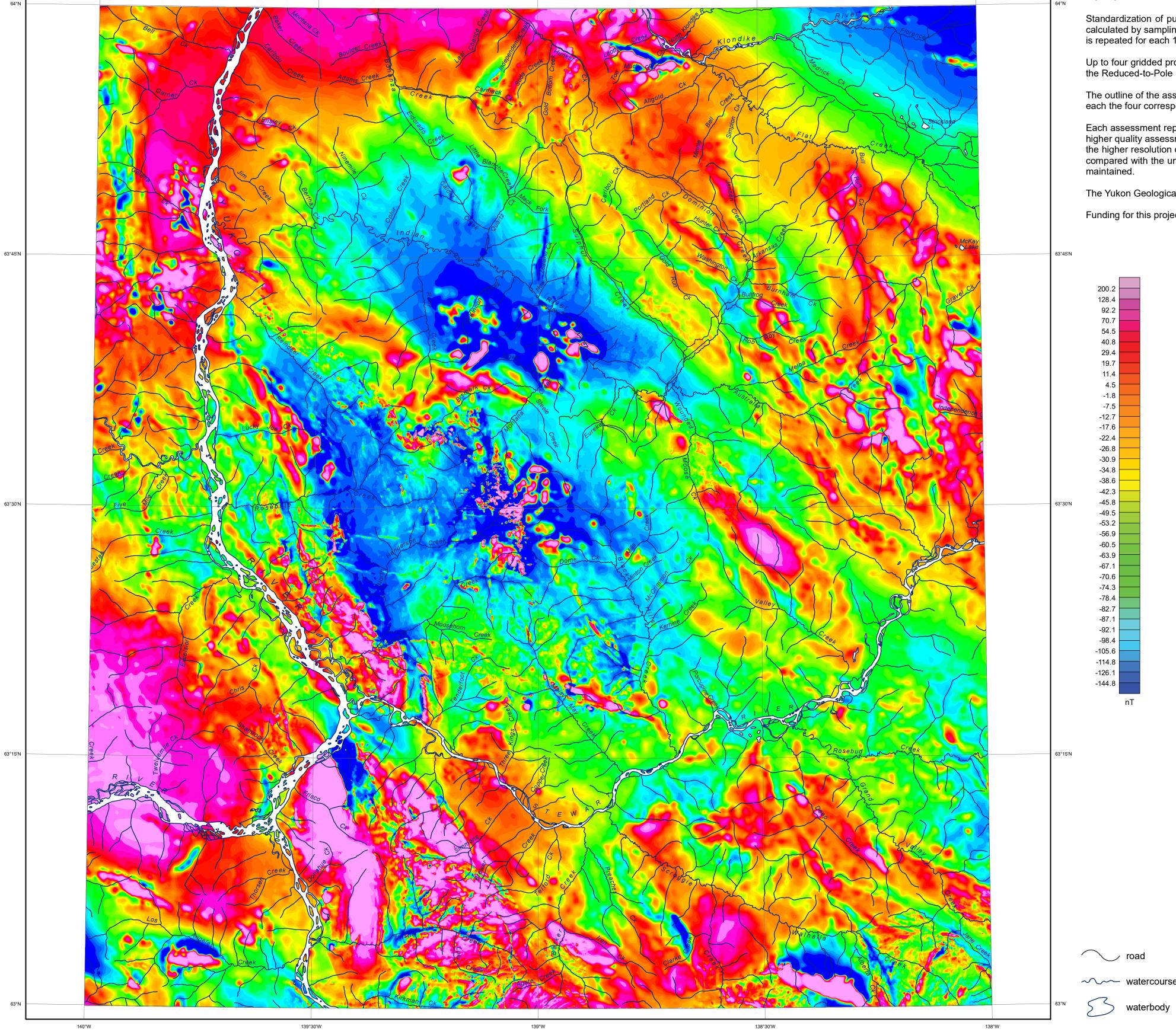
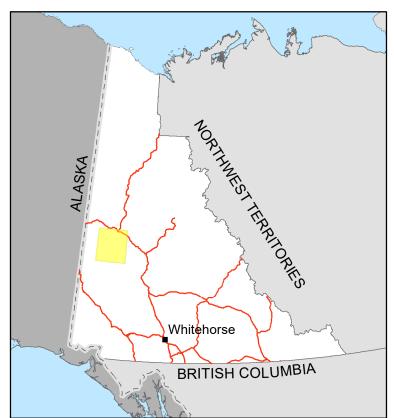
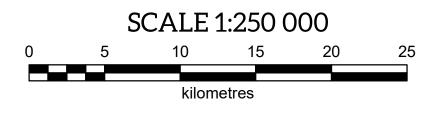


139°30'W





RESIDUAL TOTAL MAGNETIC FIELD STEWART RIVER (NTS 1150) YUKON





138°W

138°30'W



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 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

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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RECOMMENDED CITATION

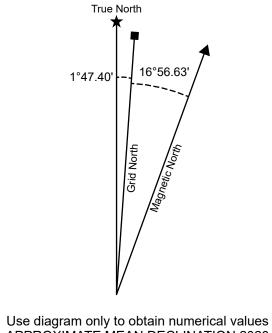
2020-37, scale 1:250 000, 4 sheets.

Email: geology@gov.yk.ca.

116C PART OF 116B	116B DAWSON	116A LARSEN CREEK
115N PART OF 115O	THIS Map	115P MCQUESTEN
115K PART OF 115J	115J STEVENSON RIDGE	115I CARMACKS

1:250 000-scale topographic base data produced CENTRE FOR TOPOGRAPHIC INFORMATION, NATURAL RESOURCES CANADA

ONE THOUSAND METRE GRID Universal Transverse Mercator Projection North American Datum 1983 Zone 7



APPROXIMATE MEAN DECLINATION 2020 FOR CENTRE OF MAP Annual change 24.1' West



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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.

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.

Yukon Geological Survey Energy, Mines and Resources Government of Yukon

Open File 2020-37 Sheet 1 of 4

Residual Total Magnetic Field Shaded Colour Contour Map (NTS 1150) (1:250 000 scale)

> Aurora Geosciences Ltd. and J.O. Bruce