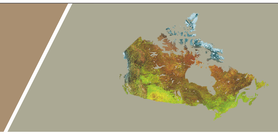
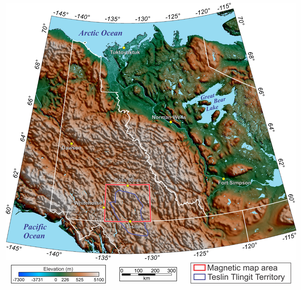
Geological Survey of Canada
Open File 9244

MAGNETIC ANOMALY OF THE TESLIN TLINGIT COUNCIL TRADITIONAL TERRITORY, YUKON

N. Hayward[1] and N. Cleven[1]



Location of the maps presented (Red Box). Topography shown by green to brown colours. Teslin-Tlingit Territory shown by blue polygon.



The Residual Total Magnetic Field for the Teslin Tlingit Council Traditional Territory was compiled from publicly available aeromagnetic surveys[1, 2].

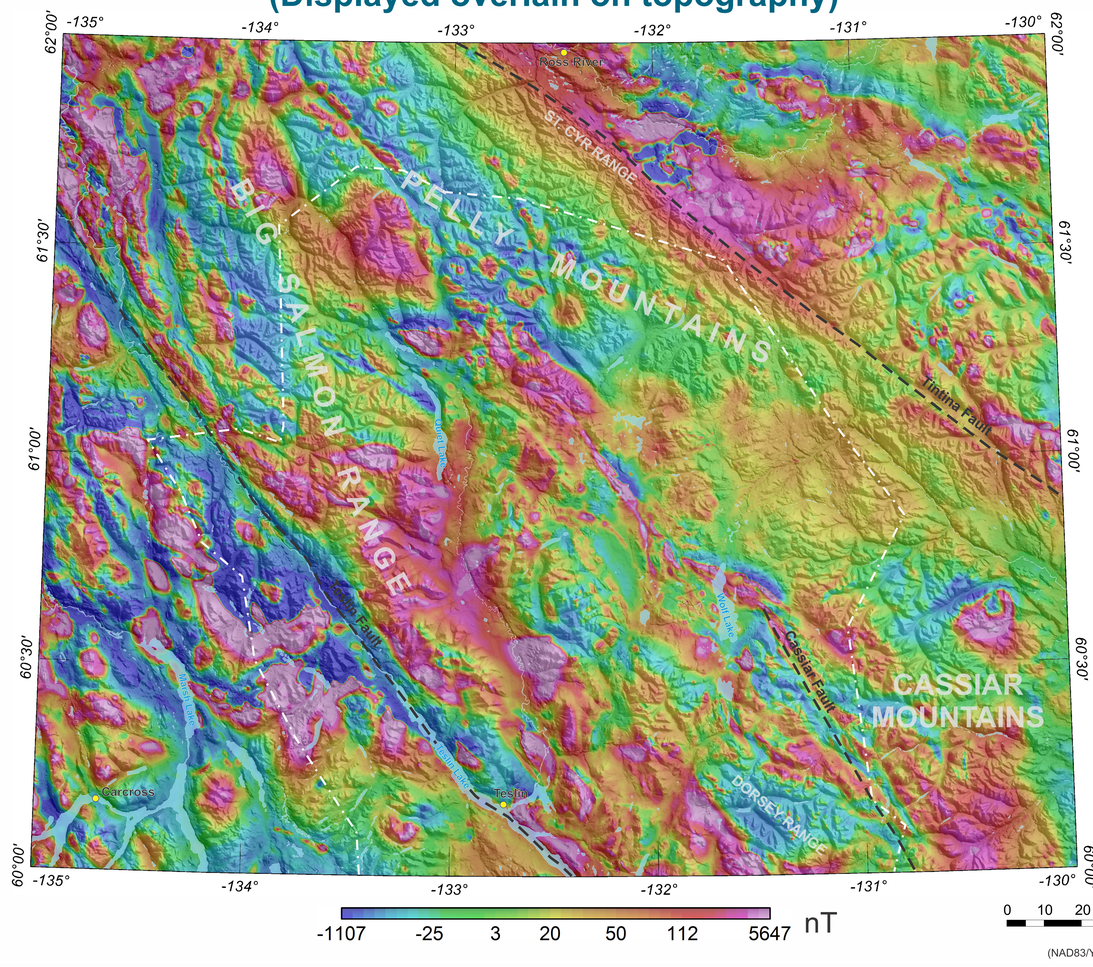
Map 1: Residual Total Magnetic Field overlying the ground surface topography, which gives the texture to the image. The hot colours (pinks and reds) show where the rocks are more magnetic, relative to the cool colours (purples and blues) where the rocks are less magnetic. These variations are broadly related to differences in rock type or variations in rock composition associated with the history of the rock. Small features are related to rocks in the near the surface, whereas large features are typically related to rocks which reach great depths of many kilometers below ground.

Map 2: Tilt Angle of the Residual Total Magnetic Field is a mathematically adjusted version of the data that highlights how quickly the magnetism associated with different rock types in the near-surface (shallow depths) varies from location to location. The map highlights contacts, including faults, between rocks of different composition.

1. Oneschuk, D., Miles, W. F., Saltus, R. & Hayward, N. (2019). Alaska and Yukon magnetic compilation, residual total magnetic field. version 2.0, Geological Survey of Canada, Open File, 7862. https://doi.org/10.4095/313537

2. https://geophysical-data.canada.ca/

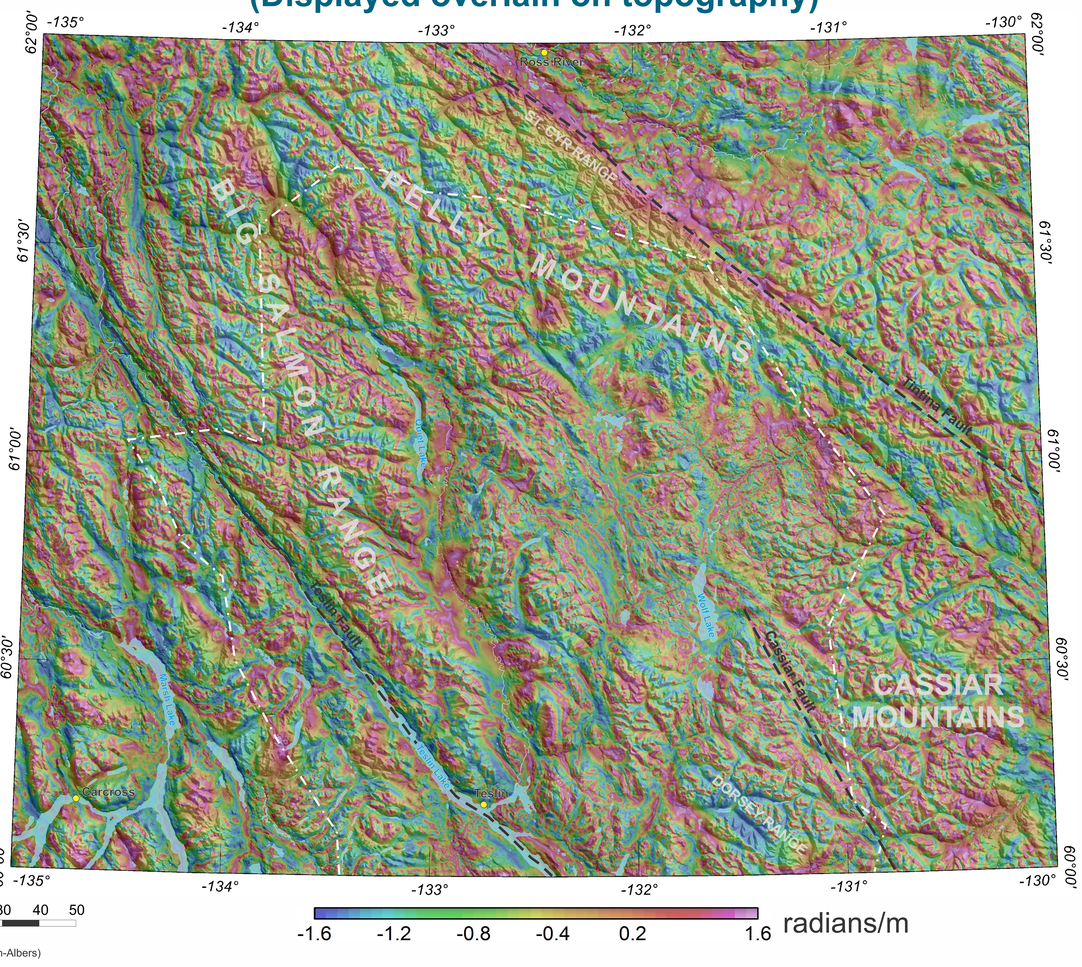
Map 1: Residual Total Magnetic Field (Displayed overlain on topography)



-1107 -25 3 20 50 112 5647 nT

0 10 20 30 40 50 km
(NAD83/Yukon-Albers)

Map 2: Tilt Angle of Residual Total Magnetic Field (Displayed overlain on topography)



-1.6 -1.2 -0.8 -0.4 0.2 1.6 radians/m

[1]Natural Resources Canada, Geological Survey of Canada, 1500-605 Robson Street, Vancouver, British Columbia V6B 5J3

For more information, please contact N. Hayward (Nathan.Hayward@nrcan-rncan.gc.ca).

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