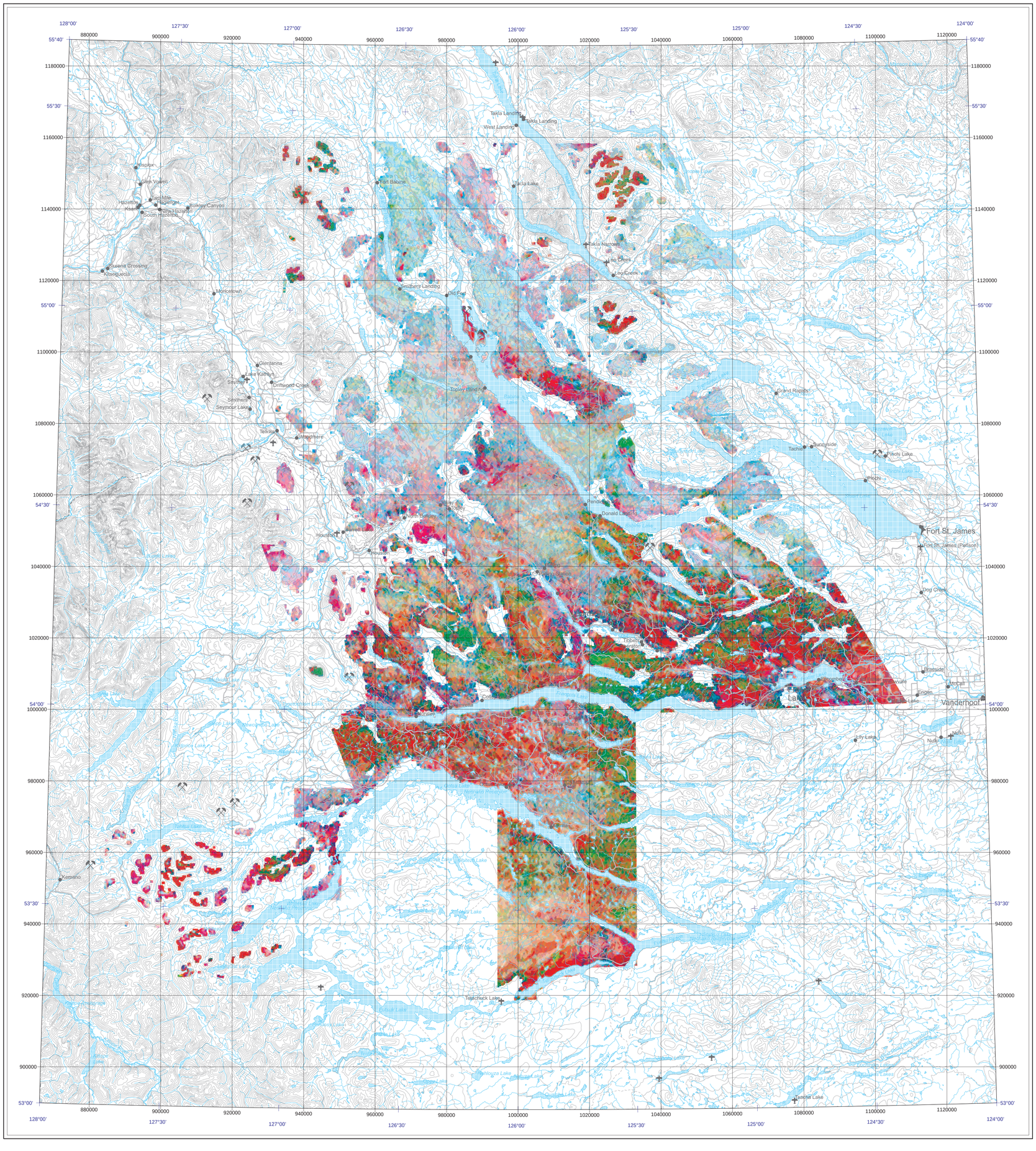


Geoscience BC

Geoscience BC is an independent, non-profit organization that generates earth science in collaboration with First Nations, local communities, government, academia and the resource sector. Our independent earth science enables informed resource management decisions and attracts investment and jobs. Geoscience BC gratefully acknowledges the financial support of the Province of British Columbia.

Magnetic Gradient and Radiometric Survey

Search Project Phase II

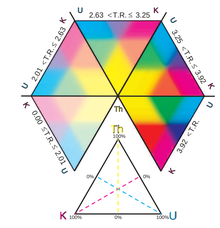
British Columbia - 2016

Geoscience BC Map 2017-03-30

RADIOMETRIC TERNARY

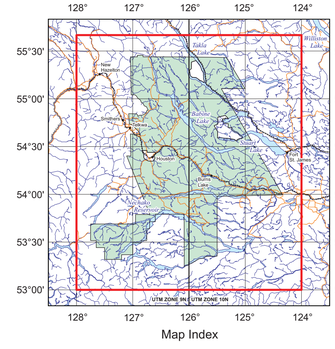
Legend

- Hydrography
- Elevation contour
- Roads
- Trails
- Railway
- Pipelines
- Power transmission line
- Built-up area / Settlement
- Airfield
- Mine



Relative Concentrations

Total Radioactivity(T.R.) = K(%) + eU(ppm) + eTh/4(ppm)



Map Index

Survey and Processing Specifications

Traverse Line Spacing	250 m
Traverse Line Direction	along bearing: 90° -270°
Control Line Spacing	2500 m
Control Line Direction	along bearing: 0° - 180°
Aircraft Altitude	80 m above drape (WGS84)
Flying Speed	120 knots
Magnetometer Sensor	Geometrics G-822, cesium split beam
Magnetometer Sensitivity	0.01 nT
Magnetometer Sample Rate	10 Hz
Spectrometer	Exploranium GR-820
Spectrometer Crystal Volume	50.4 litres downward, 8.4 litres upward
GPS Receiver	72 channel NovAtel OEMV3
Aircraft	Cessna Grand Caravan 208B (3): C-GSGL, C-GSGV, and C-GSGW
Magnetic Inclination at 54.5°N, 126.0°W	73.505°
Magnetic Declination at 54.5°N, 126.0°W	18.314°
Total Magnetic Field	55980.0 nT
GPS Ground Station 1 (WGS-84)	54°14'21.6186"N, 125°46'24.0776W, 701.5700 m
GPS Ground Station 2 (WGS-84)	54°10'55.3698"N, 125°43'07.8811W, 749.8733 m
GPS Ground Station 3 (WGS-84)	54°49'13.1486"N, 127°11'17.5321W, 513.9100 m
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Magnetic Ground Station 3 (WGS-84)	54°49'13.1486"N, 127°11'17.5321W, 513.9100 m
Date Flown	July 7 - October 11, 2016
Grid Cell Size	50 m
IGRF Model	2015
Datum	CSRS (2014)
Projection	BC Albers Equal Area

Scale 1 : 500 000

km 10 0 20 40 km

Datum: CSRS (2014) Projection: BC Albers Equal Area
Base map derived from Canada NTS 1 : 250 000 scale shape files.

Flown and compiled by:

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Radiometric Ternary

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Search Project Phase II
British Columbia - 2016