

Geoscience BC is an independent, non-profit organization that generates earth science information 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.

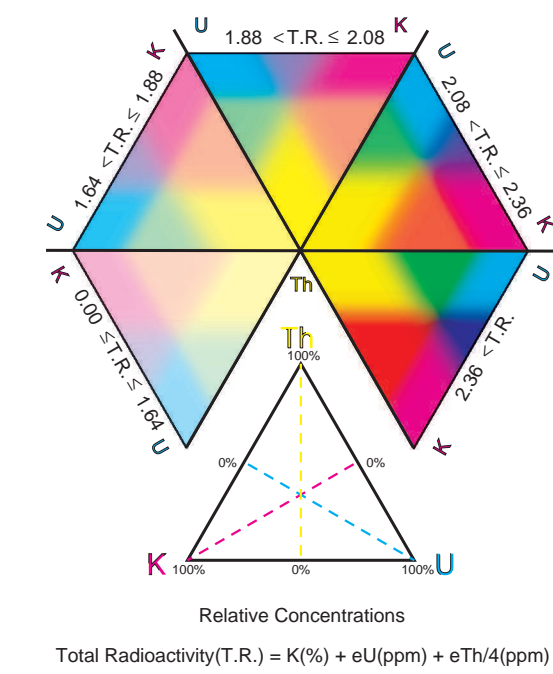
Magnetic Gradient and Radiometric Survey

Search Project Phase II

British Columbia - 2016

Geoscience BC Map 2017-03-31

RADIOMETRIC TERNARY

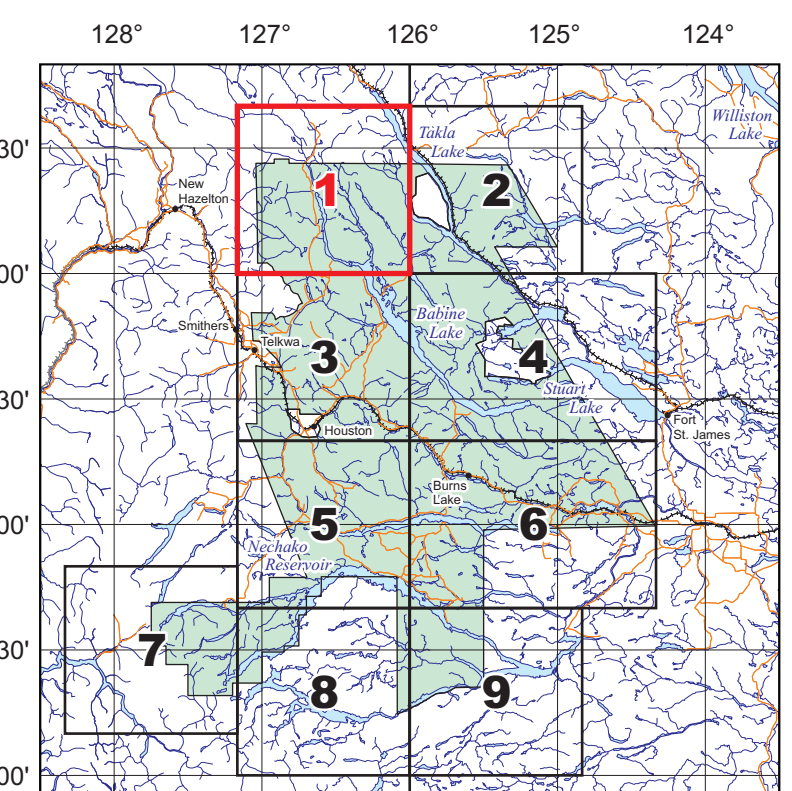


Legend

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

Flight Lines

- Line direction
- Line number
- Segment number
- Line number



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 drupe (WGS84)
Flying Speed	120 knots
Magnetometer Sensor	Geomatrix G-822, cesium split beam
Magnetometer Sensitivity	0.01 nT
Magnetometer Sample Rate	10 Hz
Spectrometer	Exploranium GR-400
Spectrometer Crystal Volume	50.4 litres downward, 8.4 litres upward
GPS Receiver	72 channel NovAtel OEM4/2
Aircraft	Cessna Grand Caravan 208B (3): C-GSGQ, C-GSGV, and C-GSGW
Magnetic Inclination at 54.5°N, 126.0°W	73.30°
Magnetic Declination at 54.5°N, 126.0°W	18.314°
Total Magnetic Field	55880.0 nT
GPS Ground Station 1 (WGS-84)	54°14'21.6188"N, 125°46'24.0776"W, 701.5700 m
GPS Ground Station 2 (WGS-84)	54°10'55.3698"N, 125°43'07.8811"W, 749.8733 m
GPS Ground Station 3 (WGS-84)	54°49'13.1488"N, 127°11'17.5321"W, 513.9100 m
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Date Flown	July 7 - October 11, 2016
Grid Cell Size	50 m
IGRF Model	IGRF 2015
Datum	CSRS (2014)
Projection	UTM 8N/UTM 10N

Scale 1 : 100 000



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Radiometric Ternary
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