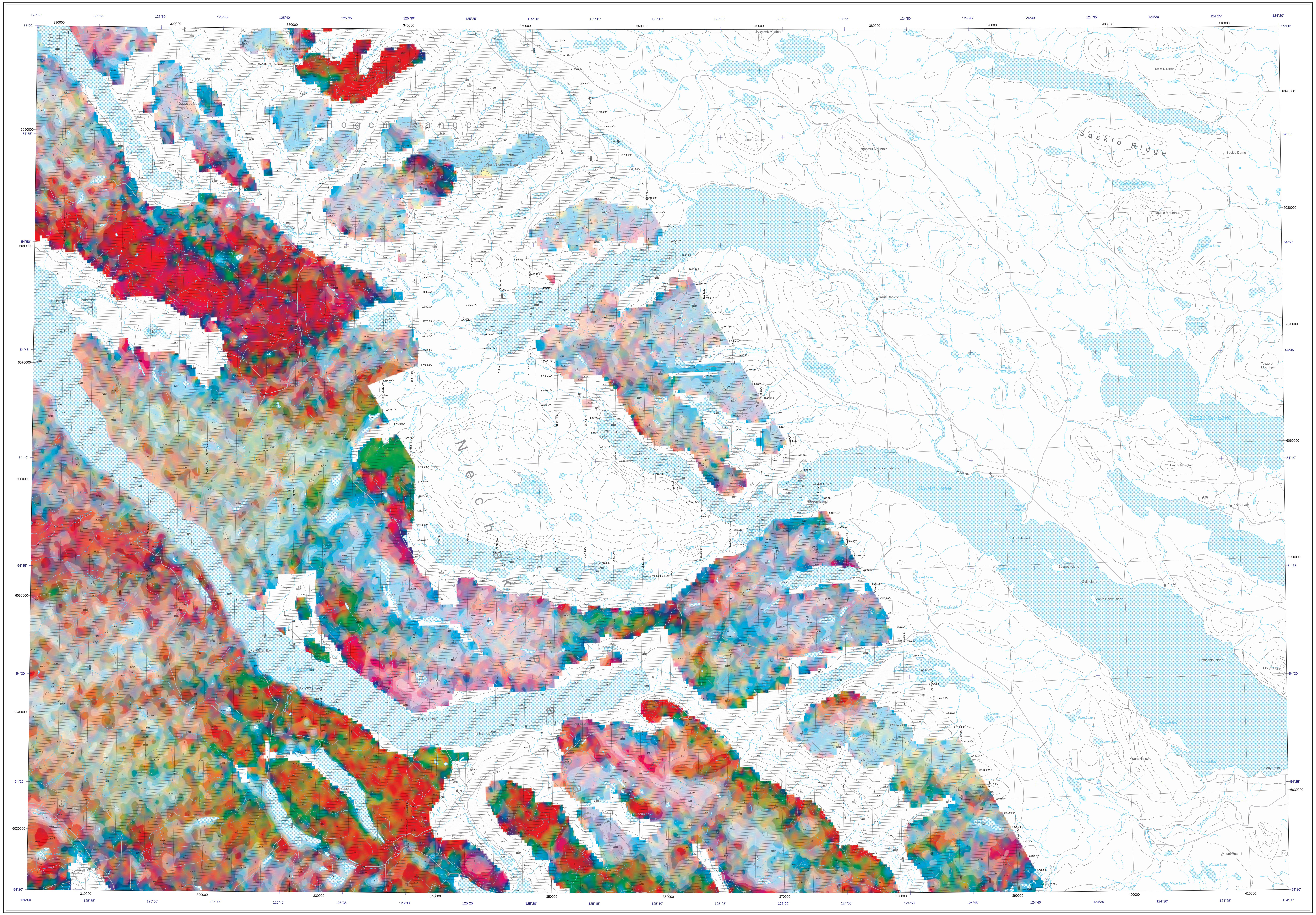
Geoscience BC

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.



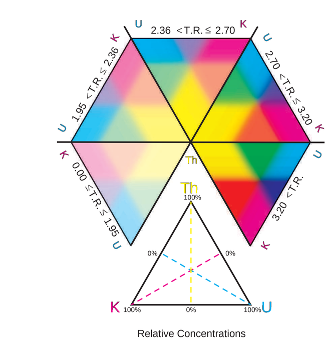
Magnetic Gradient and Radiometric Survey

Search Project Phase II

British Columbia - 2016

Geoscience BC Map 2017-03-34

RADIOMETRIC TERNARY



Relative Concentrations

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

Legend

Hydrography / Wetlands

Permanent snow

Elevation contour

Roads

Trails

Railway

Pipelines

Power transmission line

Built-up area / Settlement

Airfield

Mine

Flight Lines

L1410.00>

41250

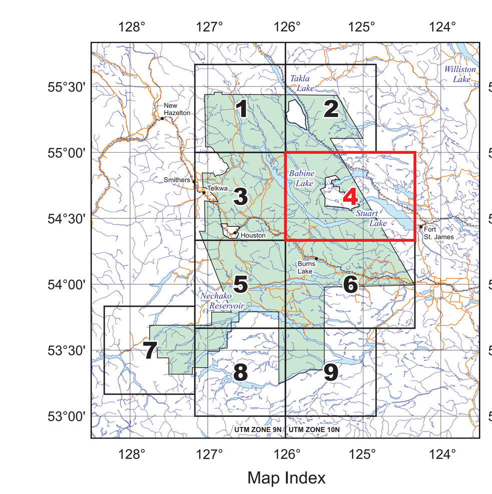
Fiducial

Line direction

Re-flight number

Segment number

Line number



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
Magnetic Ground Station 1 (WGS-84)	54°14'21.6186"N, 125°46'24.0776W, 701.5700 m
Magnetic Ground Station 2 (WGS-84)	54°10'55.3698"N, 125°43'07.8811W, 749.8733 m
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	UTM 9N/UTM 10N

Scale 1 : 100 000

km 2 0 4 8 km

Datum: CSRS (2014) Projection: Universal Transverse Mercator (UTM Zone 10N)

Base map derived from Canada NTS 1 : 250 000 scale shape files.

Flown and compiled by:

SANDER GEOPHYSICS
260 Hunt Club Road
Ottawa, Ontario, Canada K1V 1C1
Tel: +1 613-521-9626
surveys@sgl.com
sgl.com
SGL

Radiometric Ternary

Geoscience BC Map 2017-03-34

Search Project Phase II
British Columbia - 2016