Geoscience BC

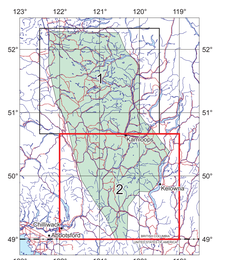
High Resolution Airborne Gravity Survey

Quest South Project Area, British Columbia - 2009

MAP 2

First Vertical Derivative of the Terrain Corrected Bouguer Gravity with Shadow (Eötvös)

Illumination: Inclination 70°, Declination 70°



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Survey and Processing Specifications

Traverse Line Spacing	2000 m
Traverse Line Direction	along bearing: 90° - 270°
Control Line Spacing	20000 m
Control Line Direction	along bearing: 0° - 180°
Aircraft Altitude	200 m above drape
Flying Speed	90 knots
Gravimeter Sensor	Sander Geophysics' AIRGrav
Gravimeter Sensitivity	0.1 mGal
Gravimeter Sample Rate	128 Hz
GPS Receiver	NovAtel Millennium, 12 channel, dual frequency
Aircraft	Diamond Twin Star DA42, C-FSDK and Cessna Grand Caravan 208B, C-GSGJ
Density used for Bouguer and Terrain Corrections	2.67 g/cm³
Gravity Data Spatial Filter (Half Wavelength)	0% Pass @ 2250 m, 100% Pass @ 4500 m, Mid-point 3000 m
GPS Ground Station 1 (NAD-83)	51°44'33.2527"N, 121°20'17.1614"W, 946.19 m
GPS Ground Station 2 (NAD-83)	51°43'33.1884"N, 121°20'17.3738"W, 946.24 m
GPS Ground Station 3 (NAD-83)	49°53'21.8679"N, 119°25'04.3203"W, 370.06 m
GPS Ground Station 4 (NAD-83)	49°53'21.8979"N, 119°25'04.1947"W, 370.20 m
Dates Flown	September - November, 2009
Grid Cell Size	500 m
Datum	NAD83
UTM Zone	10N

Scale 1 : 250 000

km 5 0 10 20 km

Eötvös

AIRGrav
Airborne Inertially Referenced Gravimeter

Flown and compiled by:

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