



SURVEY SPECIFICATIONS

Survey Flown: September 22, 2012
 Survey Type: Fixed Wing Horizontal Magnetic Gradiometry, XDS VLF-EM
 Survey Operations Base: Gander, NFLD
 Survey Line Azimuth: 090°/270°
 Control Line Azimuth: 009°/109°
 Survey Line Spacing: 200 m and 300 m
 Control Line Spacing: 3000 m
 Aircraft Mean Terrain Clearance: 60.1 m
 Mean Ground Air Speed: 57.2 m/s

AIRCRAFT SPECIFICATIONS

Aircraft Type: Cessna U206
 Aircraft Registration: C-GGSL
 Aircraft Air Speed: 216 km/h

AIRBORNE INSTRUMENTATION

Data Acquisition: RMS Instruments DAARC 500
 GPS Differential Receiver: Trimble AgGPS 132
 GPS Time Correction: Omnistar
 Radar Altimeter: Bendix/King KRA-10A
 Barometric Altimeter: Selenia L118001AN
 Fluxgate Magnetometer: Billingsley Magnetics 3 Axial TFM 100-G2
 XDS VLF-EM: Proprietary Terraquest Passover/Broadband
 Multiple Axis Coil Geometry System
 Navigation: AgStar Inc. LINAV

AIRBORNE MAGNETOMETERS (3)

Magnetometers: Scintrex CS-3 (Tail), Geometrics G-882A (Wings tips)
 Magnetometer Sensitivity: ± 0.025 nT
 Magnetometer Counter: RMS Instruments DAARC 500
 Installation: Wing Tip Pods, Tail Stinger
 Wing Tip Magnetometer Separation: 13.2 m
 Wing Centre - Tail Magnetometer Separation: 8.87 m
 Sampling Rate: 10 Hz

GROUND INSTRUMENTATION

Data Acquisition: Kromm VS Instruments SDAS V2
 Ground Magnetometer: Scintrex CS-3 Cesium Vapour
 GPS Receiver: Garmin, 1 Hz
 Base Station Location: Gander, NFLD

PROCESSING SUMMARY

MAGNETICS:
 Diurnal Correction
 Tie Line Levelling
 Microlevelling

XDS VLF-EM:
 Normalize
 Mean level
 Microlevelling

Cell Size: 80 m
 Minimum Curvature Gridding

SURVEY LINE ANNOTATION FOR Lnm:m
 LT - surveyline Lnm, nm-line Number, m-flight Number
 > flight direction

Topography Source: Canmetrix, Natural Resources Canada
 Projection: NAD 83, Scale 1:50,000

