FUGRO AIRBORNE SURVEYS - TEMPEST SYSTEM - Woolner, NT

X-AXIS and Z-AXIS: B-FIELD (equivalent square wave response)
EM profile data corrected for Tx pitch & roll, Tx-Rx geometry and Tx terrain clearance (to terrain clearance of 120m)
Parallax of -1.6s applied to X-axis and -0.2s applied to Z-axis (appropriate for horizontal or broad conductors)
CDI conductivities calculated from levelled height/pitch/roll/geometry corrected X-axis and Z-axis EM data

Line number : flight number : L3102703:30
Line direction : 270 [deg]
Fiducial range : 8489.00 8625.80
Line location : 703488.2 8571595.3 711561.5 8571617.0
Client : Geoscience Australia
Survey area : Woolner, NT
Date flown : October to December, 2008
Job number : 2017 (FAS), 1196 (GA)
Tx frequency : 25Hz

CDI SECTIONS
Horizontal scale : 1:50000
Vertical scale : 1:10000

TERRAIN CLEARANCE, PITCH AND ROLL

Tx_roll 8 degrees/cm; Tx_pitch 8 degrees/cm; Tx_terrain_clearance 20 m/cm

X EM MONITORS

sferics 2000 uV/sq.m/0.2s/cm; g/ga 1 unit/cm; 22.2kHz 1 log10(pV/root.Hz/sq.m)/cm; 21.4kHz 1 log10(pV/root.Hz/sq.m)/cm; 19.8kHz 1 log10(pV/root.Hz/sq.m)/cm; 18.2kHz 1 log10(pV/root.Hz/sq.m)/cm; powerline 1 log10(pV/root.Hz/sq.m)/cm; low_freq 1 log10(pV/root.Hz/sq.m)/cm

X WINDOWS (asinh(fT))

[Grey profiles are uncorrected EM]
[Coloured profiles are corrected EM]

asinh(fT)

X01_0.013ms 0.3 asinh(fT)/cm
X02_0.040ms 0.3 asinh(fT)/cm
X03_0.067ms 0.3 asinh(fT)/cm
X04_0.107ms 0.3 asinh(fT)/cm
X05_0.173ms 0.3 asinh(fT)/cm
X06_0.280ms 0.3 asinh(fT)/cm
X07_0.453ms 0.3 asinh(fT)/cm
X08_0.720ms 0.3 asinh(fT)/cm
X09_1.120ms 0.3 asinh(fT)/cm
X10_1.733ms 0.3 asinh(fT)/cm
X11_2.z_plms 0.3 asinh(fT)/cm
X12_4.200ms 0.3 asinh(fT)/cm
X13_6.560ms 0.3 asinh(fT)/cm
X14_10.200ms 0.3 asinh(fT)/cm
X15_16.200ms 0.3 asinh(fT)/cm

Z EM MONITORS

sferics 2000 uV/sq.m/0.2s/cm; g/ga 1 unit/cm; 22.2kHz 1 log10(pV/root.Hz/sq.m)/cm; 21.4kHz 1 log10(pV/root.Hz/sq.m)/cm; 19.8kHz 1 log10(pV/root.Hz/sq.m)/cm; 18.2kHz 1 log10(pV/root.Hz/sq.m)/cm; powerline 1 log10(pV/root.Hz/sq.m)/cm; low_freq 1 log10(pV/root.Hz/sq.m)/cm

Z WINDOWS (asinh(fT))

[Grey profiles are uncorrected EM]
[Coloured profiles are corrected EM]

asinh(fT)

Z01_0.013ms 0.3 asinh(fT)/cm
Z02_0.040ms 0.3 asinh(fT)/cm
Z03_0.067ms 0.3 asinh(fT)/cm
Z04_0.107ms 0.3 asinh(fT)/cm
Z05_0.173ms 0.3 asinh(fT)/cm
Z06_0.280ms 0.3 asinh(fT)/cm
Z07_0.453ms 0.3 asinh(fT)/cm
Z08_0.720ms 0.3 asinh(fT)/cm
Z09_1.120ms 0.3 asinh(fT)/cm
Z10_1.733ms 0.3 asinh(fT)/cm
Z11_2.z_plms 0.3 asinh(fT)/cm
Z12_4.200ms 0.3 asinh(fT)/cm
Z13_6.560ms 0.3 asinh(fT)/cm
Z14_10.200ms 0.3 asinh(fT)/cm
Z15_16.200ms 0.3 asinh(fT)/cm

CDI VERTICAL SYNTHETIC SECTION

Terrain Elevation with Aircraft Transmitter Elevation (AHD - 100m/cm)

Northing (m): 705000, 707500, 710000

Conductivity (mS/m): 1500.0, 1357.8, 1224.6, 1082.6, 940.7, 812.2, 671.0, 544.5, 405.5, 296.2, 201.5, 125.1, 83.9, 67.6, 44.4, 38.4, 29.1, 23.2, 19.1, 13.5, 12.5, 8.2, 7.1, 5.4, 3.7, 3.5, 2.3, 2.2, 1.5, 1.1, 1.0

MAGNETICS

vertical_derivative 0.1 nT/m/cm; total_magnetic_field 100 nT/cm

Easting (m): 705000, 707500, 710000

Line Direction: N, W 270°, E, S

Line: L3102703:30