MT Processing Notes
Terrex Seismic Pty Ltd
Curnamona MT Project

1. Association/Logistical Notes

MT Acquisition: December 9-December 13, 2008
Document Date: December 13, 2008

QuickLay Version: 3.00.Alpha_33

Notes By: Joel Stockill

1.1.1 Curnamona Line – Sites read

Sites	Location UTM WGA84 Zone 54J		Magnetic Sensors			True Azimuth			
	Northing	Easting	Hx	Hy	Hz	Hx	Hy	Ex	Ey
BC05	6527212	429090	P50-2010	P50-2114	P50-2017	360	270	360	90
BC04R	6517229	429446	P50-2117	P50-2126	P50-2447	360	270	360	90

Magnetic Declination: approx.7˚E

1.1.2 Notes

All sites are located in sandy terrain. Bins were used at all sites to cover the Hz coil. Strong wind and storms at times during acquisition. Sites were inaccessible before December 13 due to wet weather, and road closures.

Site BC05:
Cows in vicinity of site. Site was 10m East of a track.

Site BC04R:
Cows were crowded around site on arrival – although no damage to site. Site was 5m East of a track.

2. MT Processing

MT Events

Sample Rate 1000 sps

Site	Serial Event @ Site	Serial Event @ Remote Site	Intersecting Event	Reference Site	Notes
BC04R	SEvBC04r_20081209.0246	SEvBC05r_20081209.0312	BC04R (03:12, 0912/2008 to 04:30, 13/12/2008)	BC05	Created 14 4h subevents Created 5 ~11h subevents

2.1.1 Site BC04R

Name: BC04R
Date: December 13, 2008

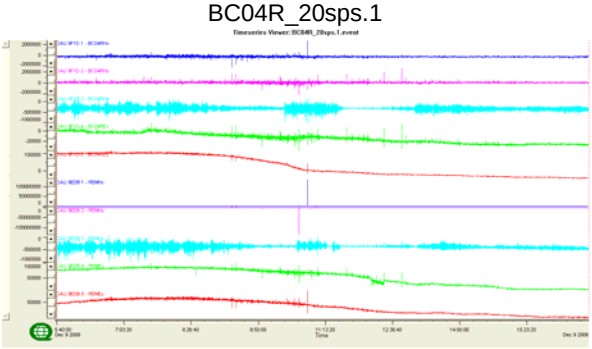
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 4days, 2h and 34min of data were acquired, with 2days 4h 25min used for processing

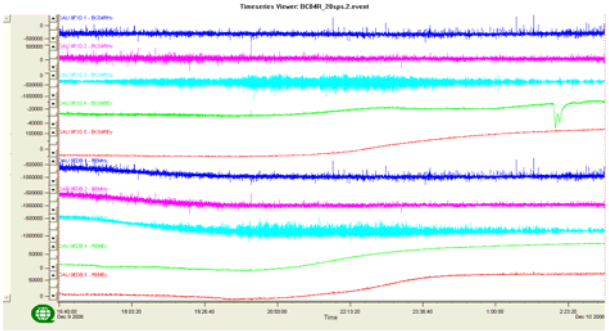
Events in Order	Time Series Notes
BC04R_20sps.1 BC04R_20sps.2 BC04R_20sps.3 BC04R_20sps.4 BC04R_20sps.5	TS looks ok. Some noise during recording. Noise in the reference Ex (DC shifting). Noise could be due to cows chewing cables, and water in connections.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	950	1000

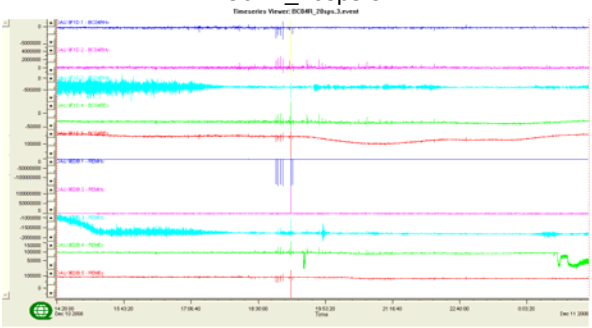
BC04R_20sps.1



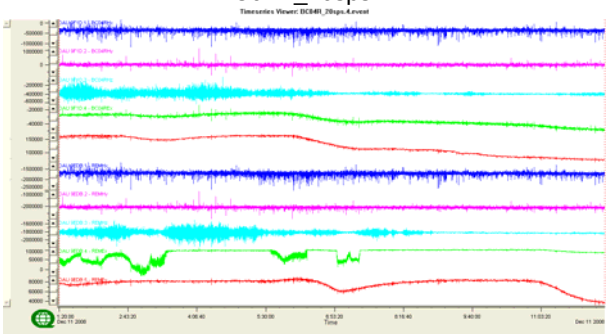
BC04R_20sps.2



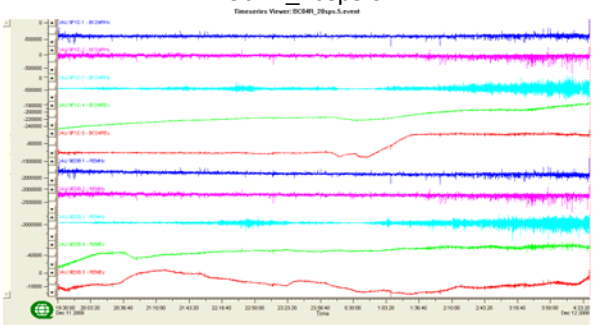
BC04R_20sps.3



BC04R_20sps.4



BC04R_20sps.5

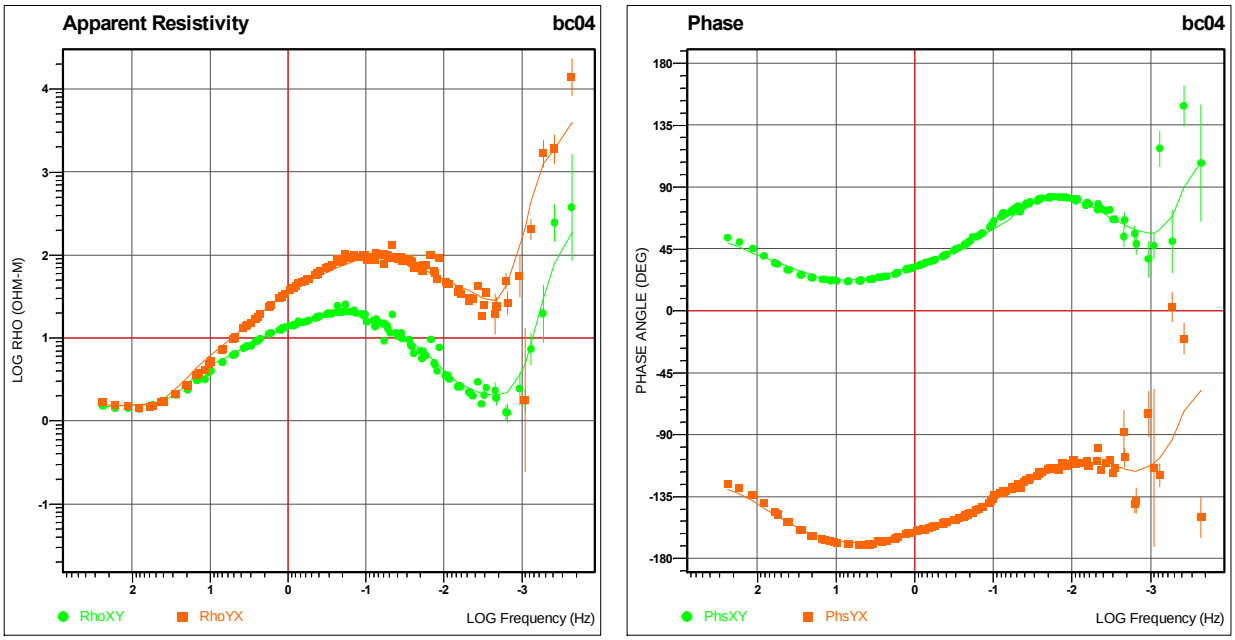


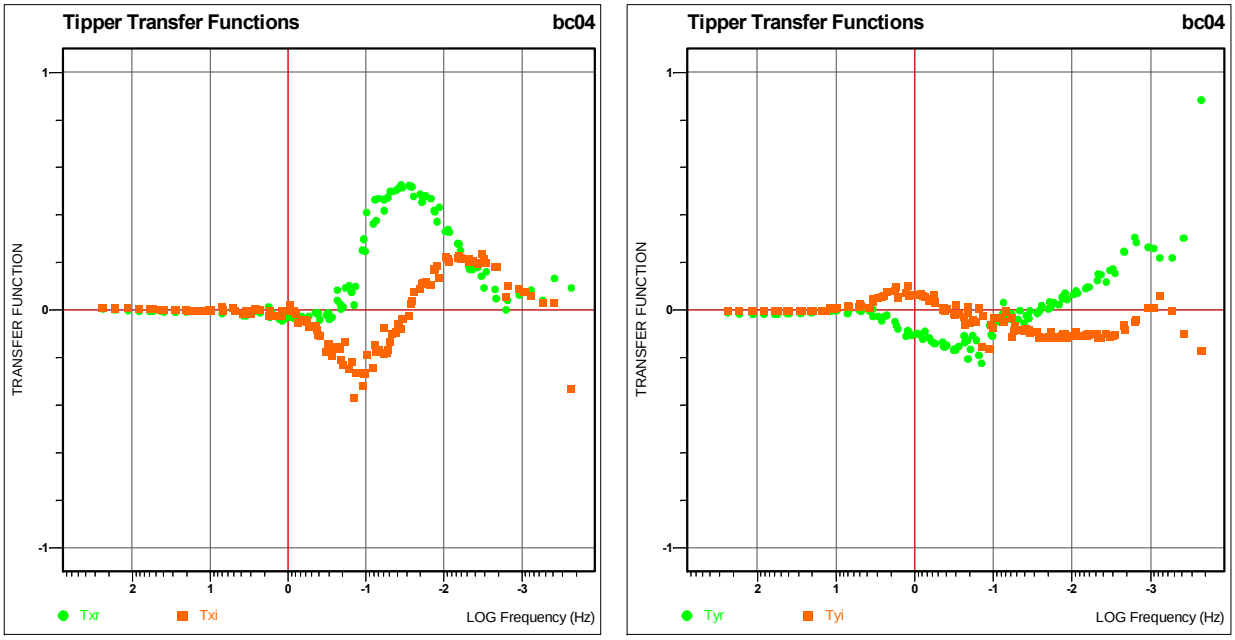
Reviewer Date: December 13, 2008

Comments:

- Good quality data
- Some noise in the vertical and horizontal components below 0.003Hz

Site BC04R Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)





Rho XY ------- Green
Rho YX ------- Orange