MT Processing Notes
Terrex Seismic Pty Ltd
Curnamona MT Project

1. Association/Logistical Notes

MT Acquisition: December 5-December 8, 2008
Document Date: December 10, 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
BC01	6489273	436332	P50-2445	P50-2447	P50-2456	360	270	360	90
BC02	6498642	433556	P50-2451	P50-2455	P50-2457	360	270	360	90
BC03	6507387	429856	P50-2448	P50-2459	P50-2461	360	270	360	90

Magnetic Declination: approx.7˚E

1.1.2 Notes

All sites are located in rubble/sandy terrain. Bins were used at all sites to cover the Hz coil.
Strong wind and storms at times during acquisition.

Site BC02:
Site was 100m North of a bore.

Site BC03:
Site was roughly 50m from a fence.

2. MT Processing

MT Events

Sample Rate 1000 sps

Site	Serial Event @ Site	Serial Event @ Remote Site	Intersecting Event	Reference Site	Notes
BC01	SEvBC01_20081205.0740	SEvBC03_20081205.0525	BC01 (07:40, 05/12/2008 to 03:25, 08/12/2008)	BC03	Created 17 4h subevents Created 5 13h45m subevents
BC02	SEvBC02_20081205.0618	SEvBC03_20081205.0525	BC02 (06:18, 05/12/2008 to 03:25, 08/12/2008)	BC03	Created 17 4h subevents Created 5 13h45m subevents
BC03	SEvBC03_20081205.0525	SEvBC02_20081205.0618	BC03 (06:18, 05/12/2008 to 03:25, 08/12/2008)	BC01	Created 17 4h subevents Created 5 13h30m subevents

2.1.1 Site BC01

Name: BC01
Date: December 10, 2008

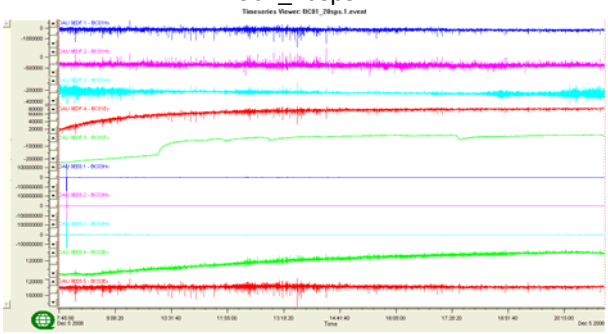
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days, 20h and 38min of data were acquired, with 2days 19h 44min used for final processing.

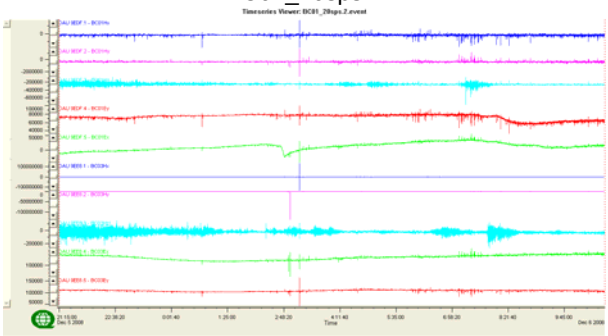
Events in Order	Time Series Notes
BC01_20sps.1 BC01_20sps.2 BC01_20sps.3 BC01_20sps.4 BC01_20sps.5	TS looks OK. Some noise in the coils at the site.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	1950	1950

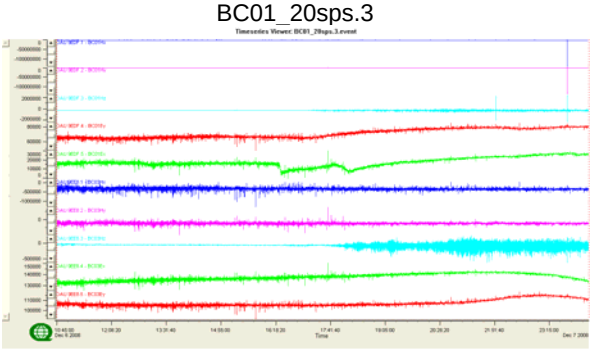
BC01_20sps.1



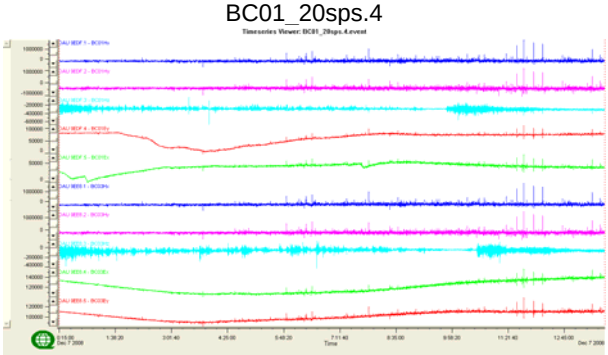
BC01_20sps.2



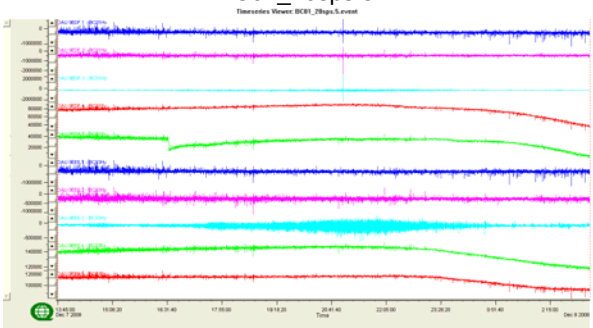
BC01_20sps.3



BC01_20sps.4



BC01_20sps.5

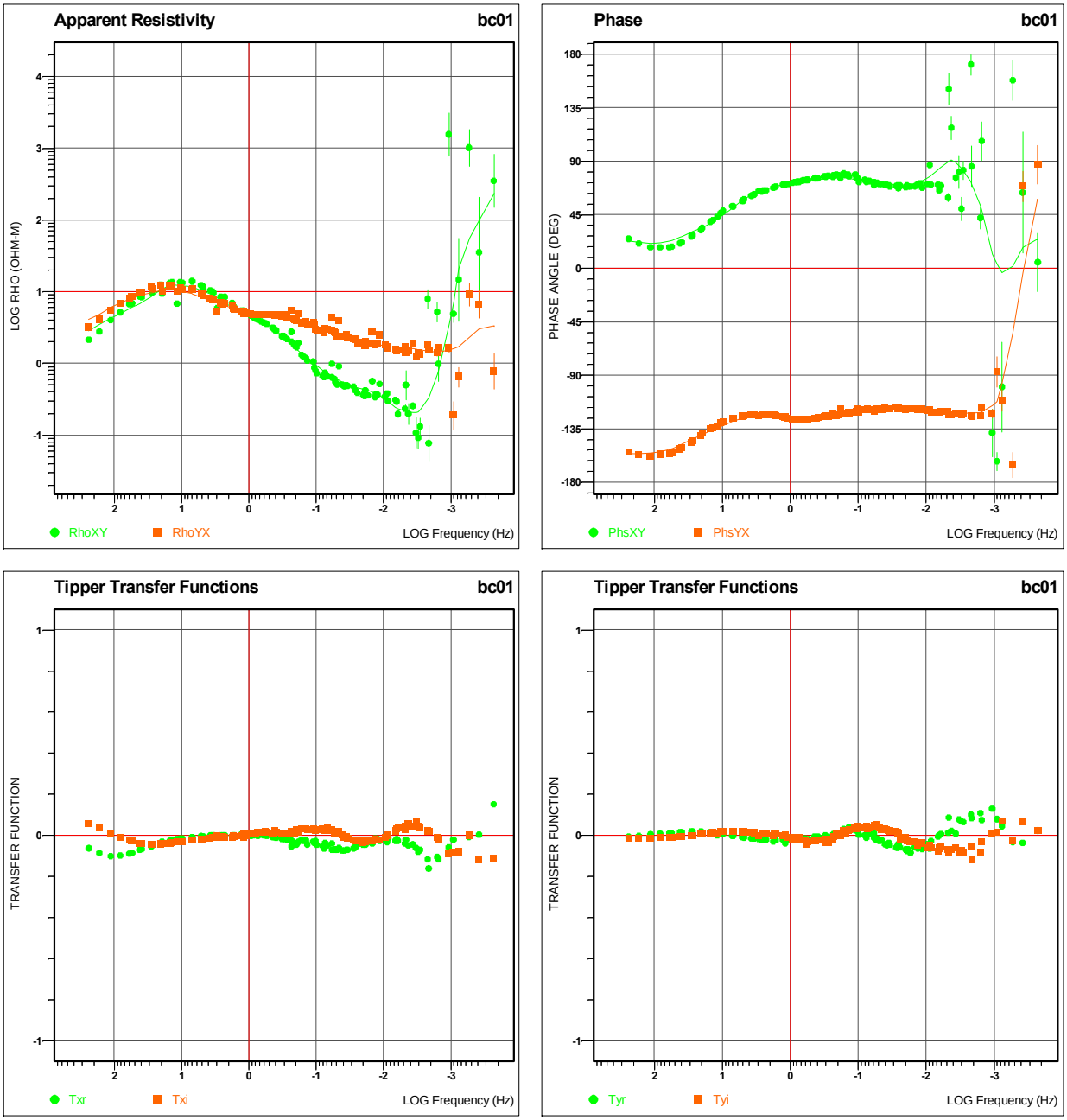


Reviewer Date: December 10, 2008

Comments:

- Good Quality data
- Noise in all components below 0.001Hz
- Noise in the HxEy component below 0.01Hz

Site BC01 Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)



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

2.1.2 Site BC02

Name: BC02
Date: December 10, 2008

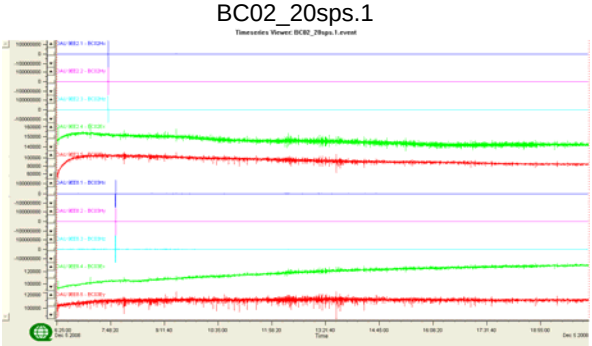
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days, 21h and 34min of data were acquired, with 2days 21h 6min used for processing

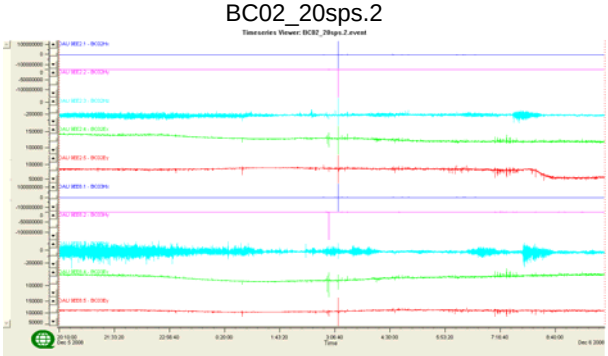
Events in Order	Time Series Notes
BC02_20sps.1 BC02_20sps.2 BC02_20sps.3 BC02_20sps.4 BC02_20sps.5	TS looks ok. Some noise during recording.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	700	600

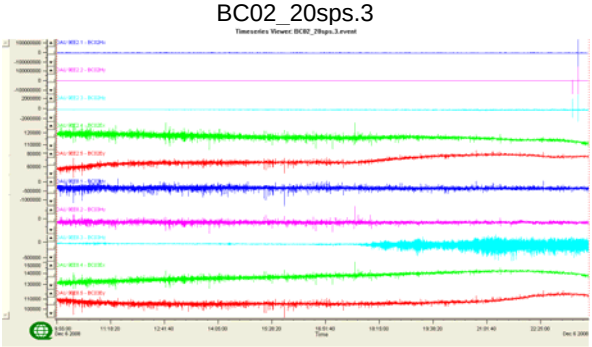
BC02_20sps.1



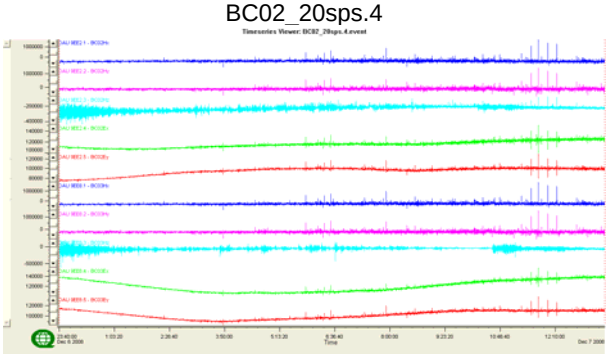
BC02_20sps.2



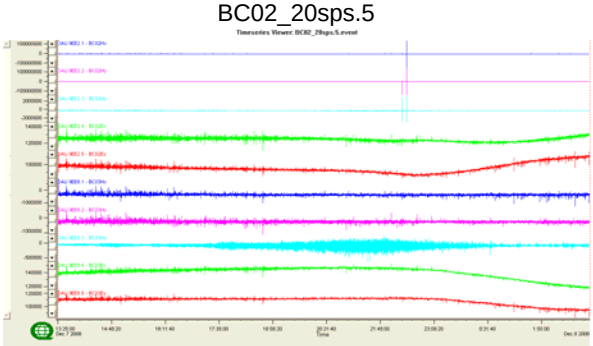
BC02_20sps.3



BC02_20sps.4



BC02_20sps.5

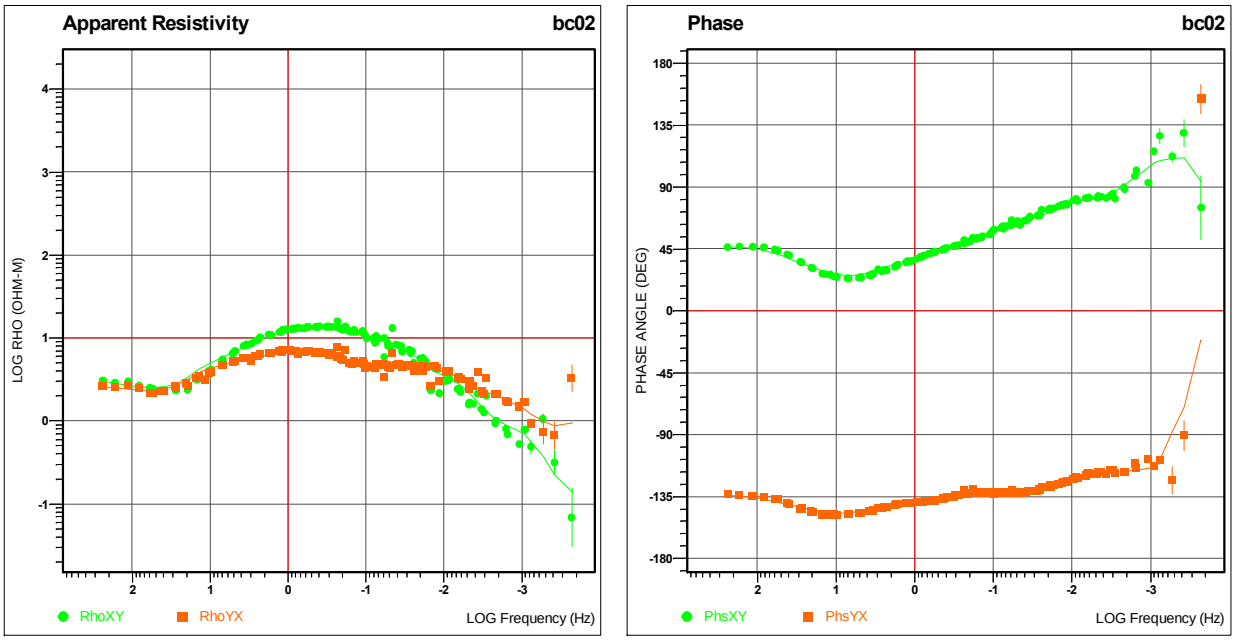


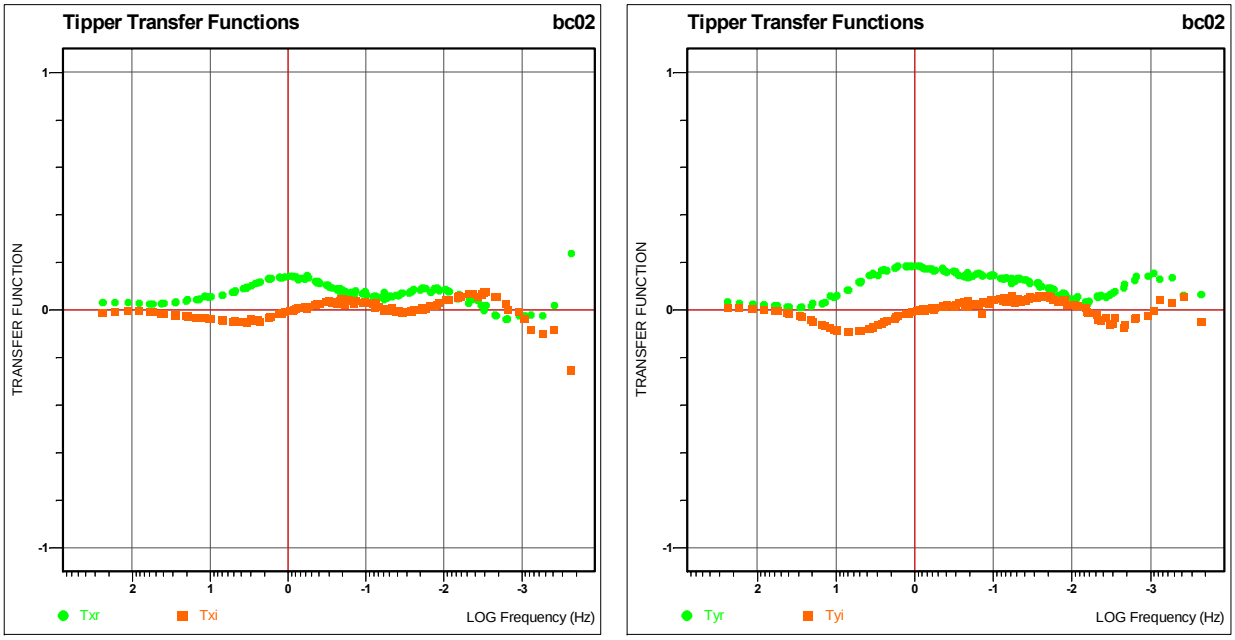
Reviewer Date: December 10, 2008

Comments:

- Good quality data
- Some noise in the vertical and horizontal components below 0.001Hz

Site BC02 Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)





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

2.1.3 Site BC03

Name: BC03
Date: December 10, 2008

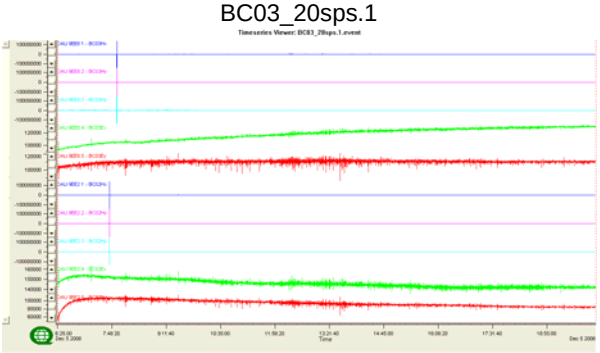
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days, 21h and 59min of data were acquired, with 2day 21h 6min used for processing

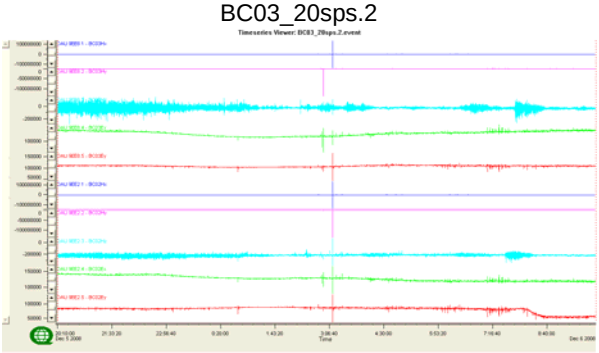
Events in Order	Time Series Notes
BC03_20sps.1 BC03_20sps.2 BC03_20sps.3 BC03_20sps.4 BC03_20sps.5	TS looks OK. Small noise in the coils at the site near the start of the acquisition.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	700	700

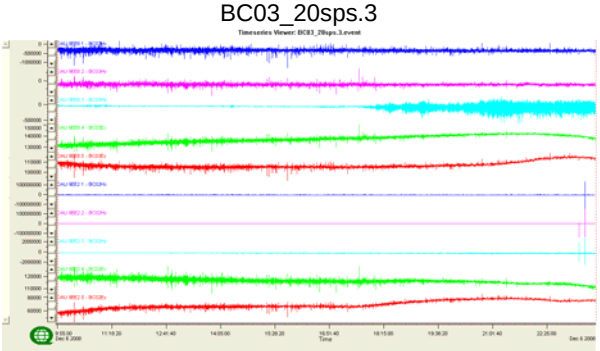
BC03_20sps.1



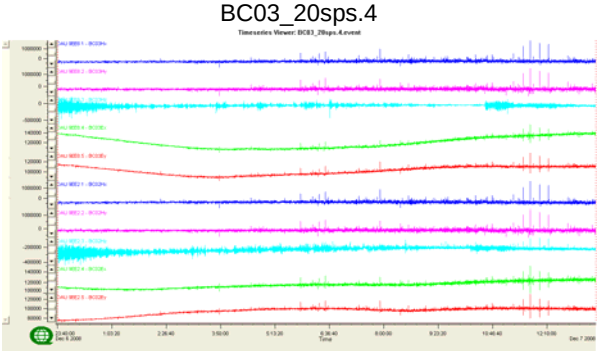
BC03_20sps.2



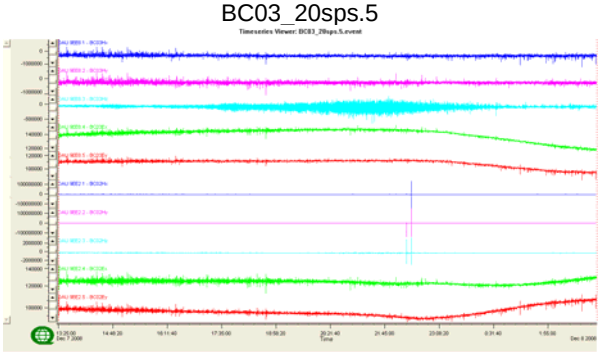
BC03_20sps.3



BC03_20sps.4



BC03_20sps.5

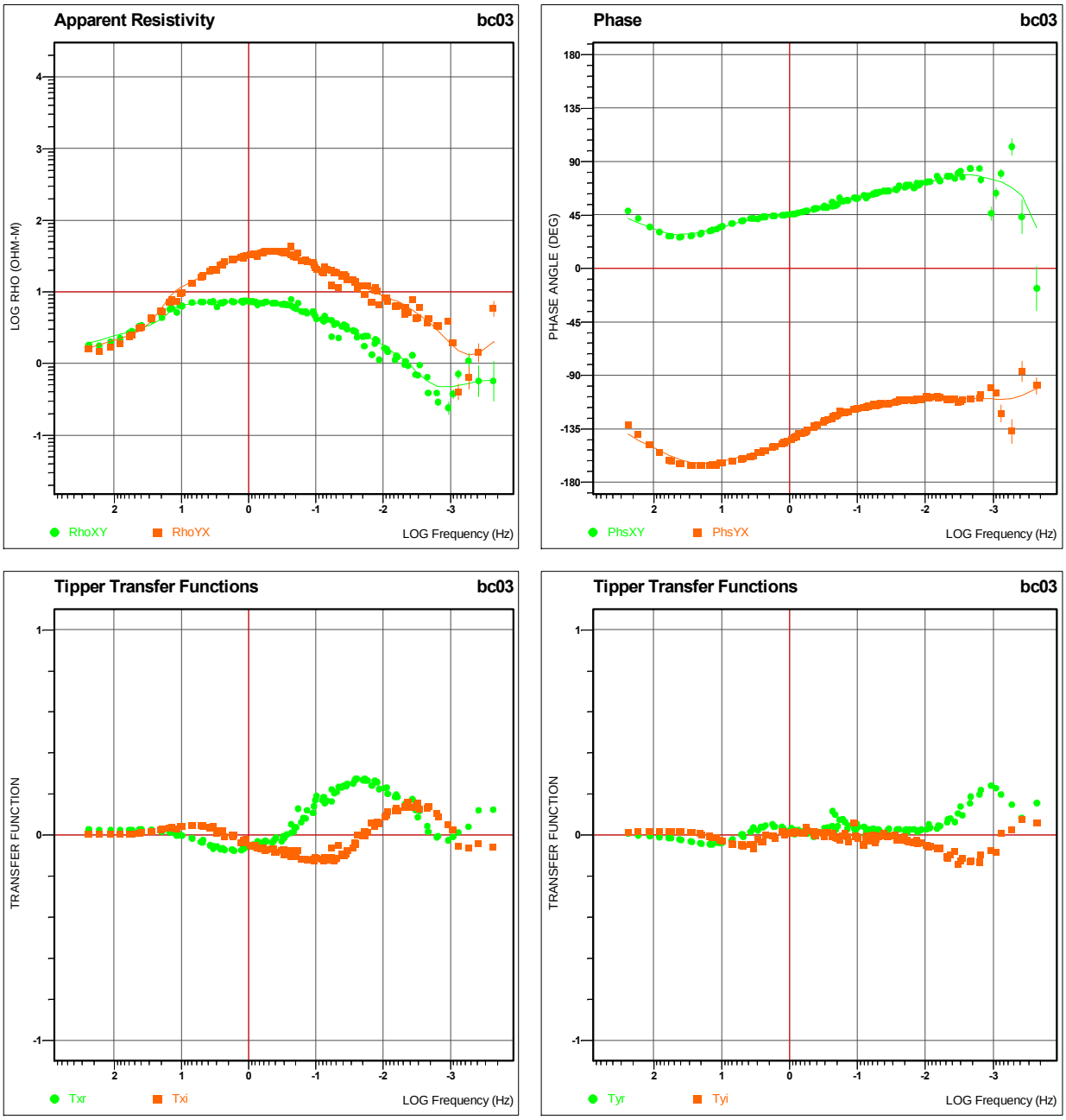


Reviewer Date: December 10, 2008

Comments:

- Good quality data
- Some noise in the vertical and horizontal components below 0.001Hz

Site BC03 Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)



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