MT Processing Notes
Terrex Seismic Pty Ltd
Gawler Curnamona Arrowie MT Transect

1. Association/Logistical Notes

MT Acquisition: November 28-December 1, 2008
Document Date: December 2, 2008

QuickLay Version: 3.00.Alpha_33

Notes By: Joel Stockill
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1.1.1 BC Line 1 – Sites read

Sites	Location UTM WGA84 Zone 54J		Magnetic Sensors			True Azimuth			
	Northing	Easting	Hx	Hy	Hz	Hx	Hy	Ex	Ey
BC20	6667262	398284	P50-2236	P50-2237	P50-2436	360	270	360	90
BC21	6675711	393927	P50-2202	P50-2117	P50-2126	360	270	360	90
BC22	6680799	386437	P50-2010	P50-2017	P50-2114	360	270	180	270

Magnetic Declination: approx.7˚E

1.1.2 Notes

All sites are located in open ground. Bins were used to cover the vertical coils at all sites. There was a strong wind blowing for the majority of the acquisition.

Site BC20:
This site is located approximately 25m to the southeast of water tanks and a windmill.

Site BC21:
The site is located approximately 30m North of a track with a fence running along it.

Site BC22:
The site is located 10m to the South of a track, and 400m west of a gas pipeline road.

2. MT Processing

MT Events

Sample Rate 1000 sps

Site	Serial Event @ Site	Serial Event @ Remote Site	Intersecting Event	Reference Site	Notes
BC20	SEvBC20_20081128.0220	SEvBC22_20081128.0017	BC20 (02:20, 28/11/2008 to 21:36, 30/11/2008)	BC22	Created 16 4h subevents Created 4 15h subevents
BC21	SEvBC21_20081128.0120	SEvBC22_20081128.0017	BC21 (01:20, 28/11/2008 to 21:13, 30/11/2008)	BC20	Created 17 4h subevents Created 4 15h subevents
BC22	SEvBC22_20081128.0017	SEvBC21_20081128.0120	BC22 (00:17, 28/11/2008 to 20:48, 30/11/2008)	BC20	Created 17 4h subevents Created 4 15h subevents

2.1.1 Site BC20

Name: BC20
Date: November 28-December 1, 2008

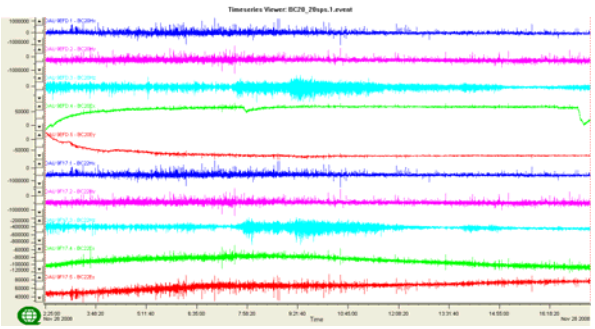
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days 19h and 15min of data were acquired and used for final processing.

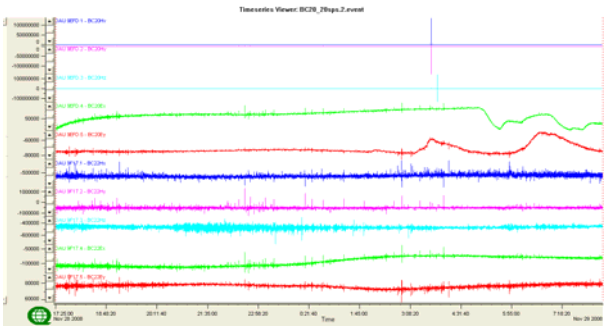
Events in Order	Time Series Notes
BC20_20sps.1 BC20_20sps.2 BC20_20sps.3 BC20_20sps.4	TS look OK, some drifting in the site electrics. Noise on BC20 coils on the 29th 3:45GMT

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	750	1000

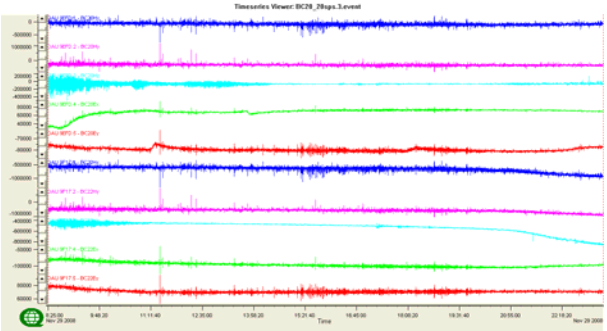
BC20_20sps.1



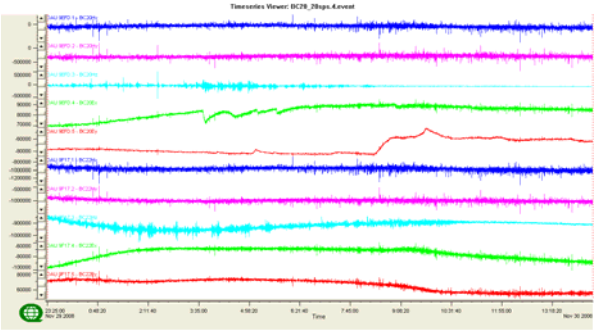
BC20_20sps.2



BC20_20sps.3



BC20_20sps.4

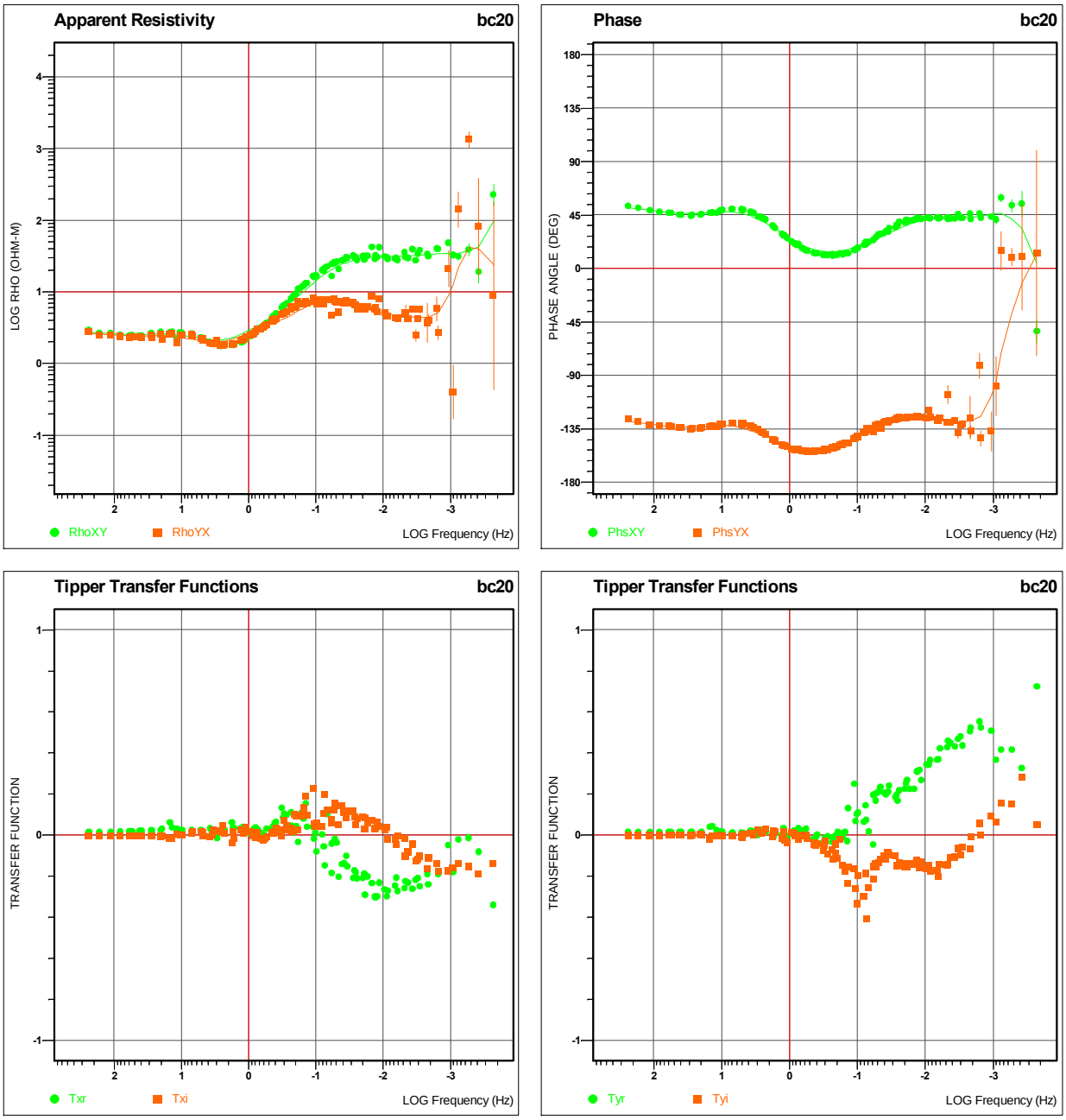


Reviewer Date: December 2, 2008

Comments:

- Horizontal components good some noise F<0.002Hz
- Vertical components good

Site BC20 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 BC21

Name: BC21
Date: November 28-December 1, 2008

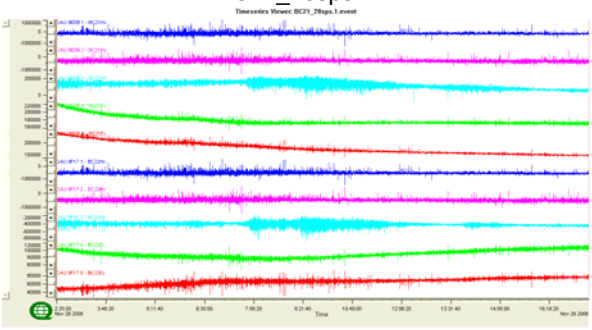
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days, 19h and 52min of data were acquired and used for processing

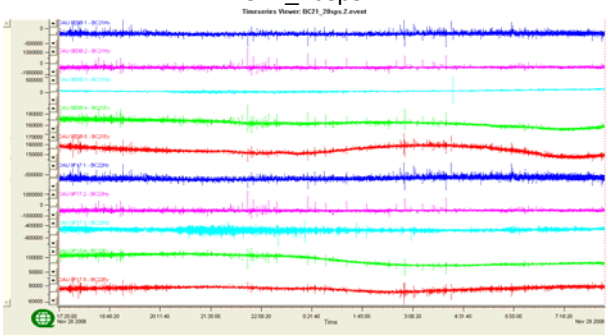
Events in Order	Time Series Notes
BC21_20sps.1 BC21_20sps.2 BC21_20sps.3 BC21_20sps.4	TS looks ok.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	800	1000

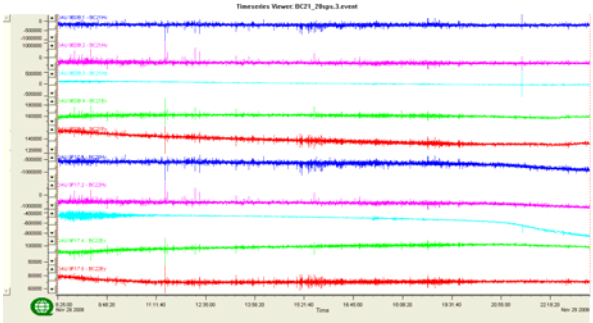
BC21_20sps.1



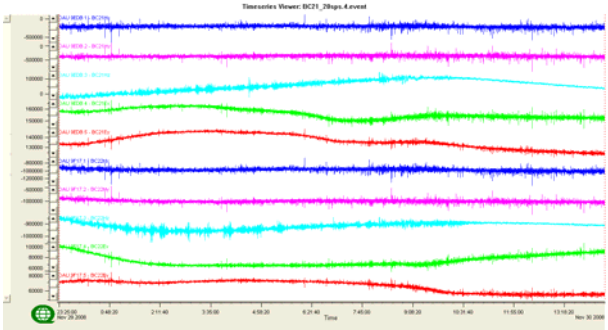
BC21_20sps.2



BC21_20sps.3



BC21_20sps.4

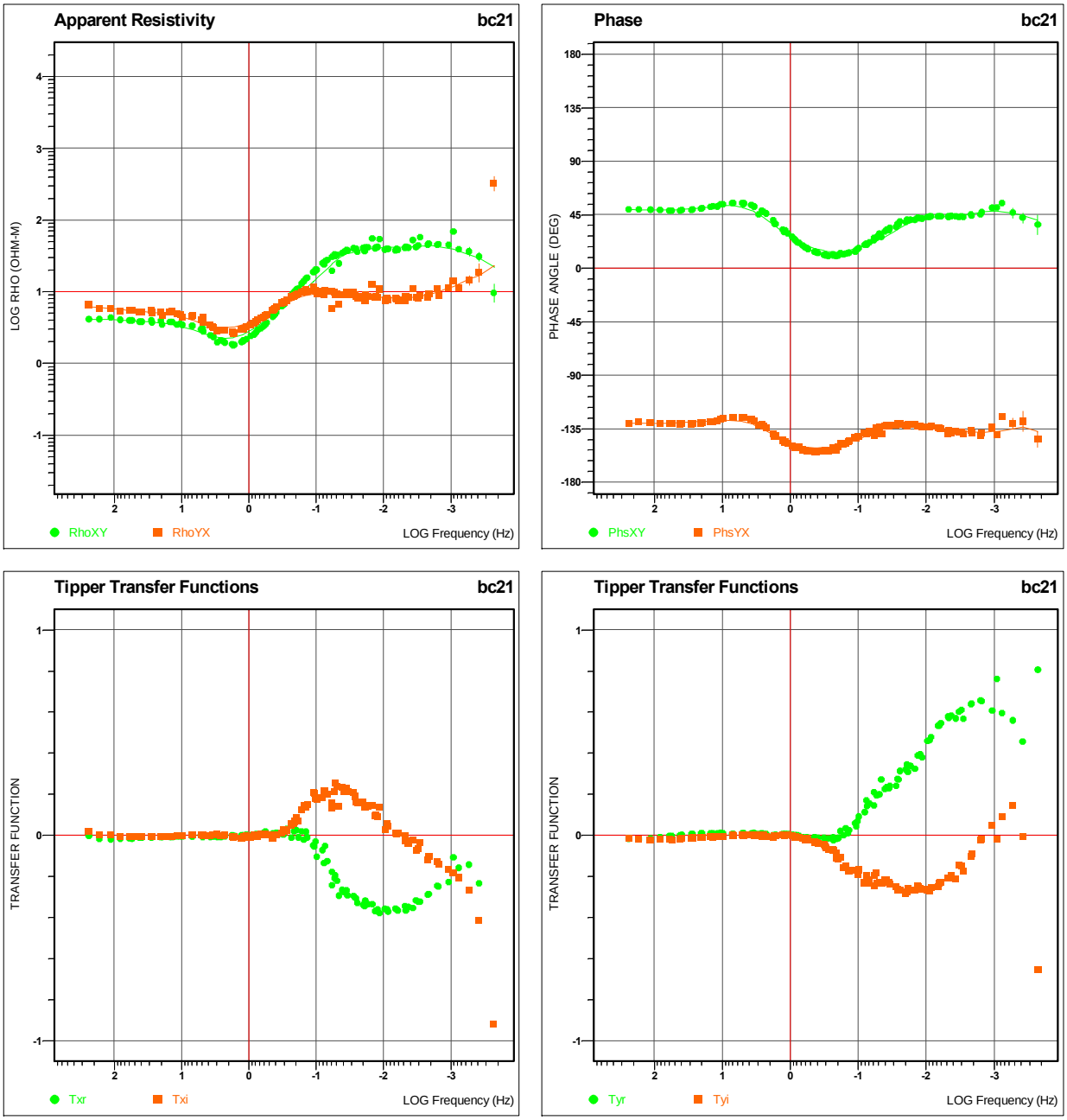


Reviewer Date: December 2, 2008

Comments:

- Quality of data is good

Site BC21 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 BC22

Name: BC22
Date: November 28-December 1, 2008

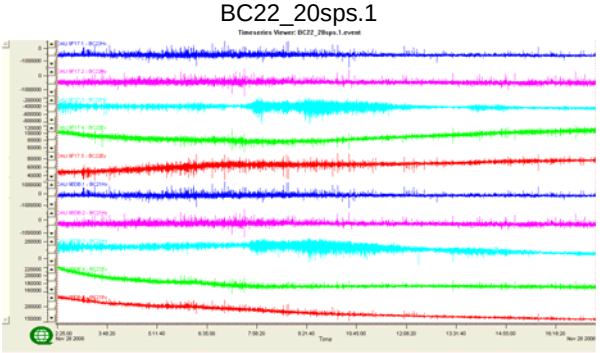
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days 20h and 31min of data were acquired and used for processing

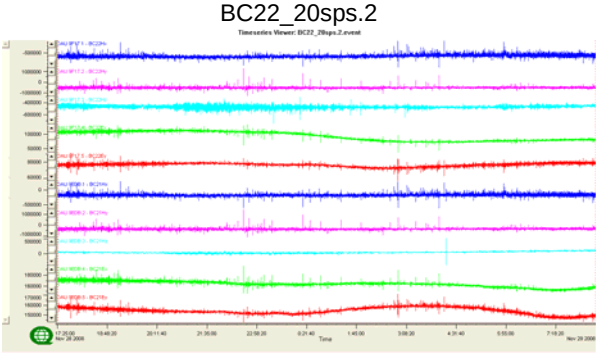
Events in Order	Time Series Notes
BC22_20sps.1 BC22_20sps.2 BC22_20sps.3 BC22_20sps.4 BC22_20sps.5	TS looks OK.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	1700	1450

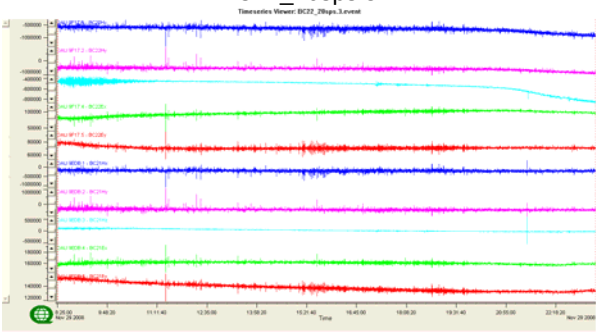
BC22_20sps.1



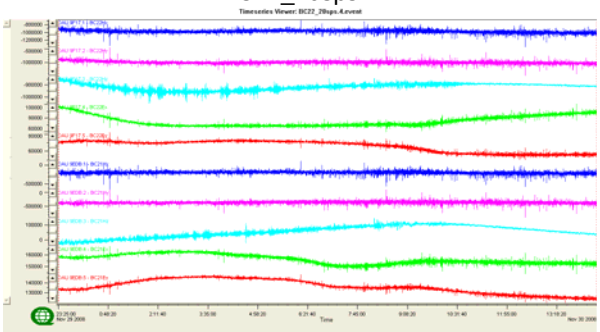
BC22_20sps.2



BC22_20sps.3



BC22_20sps.4

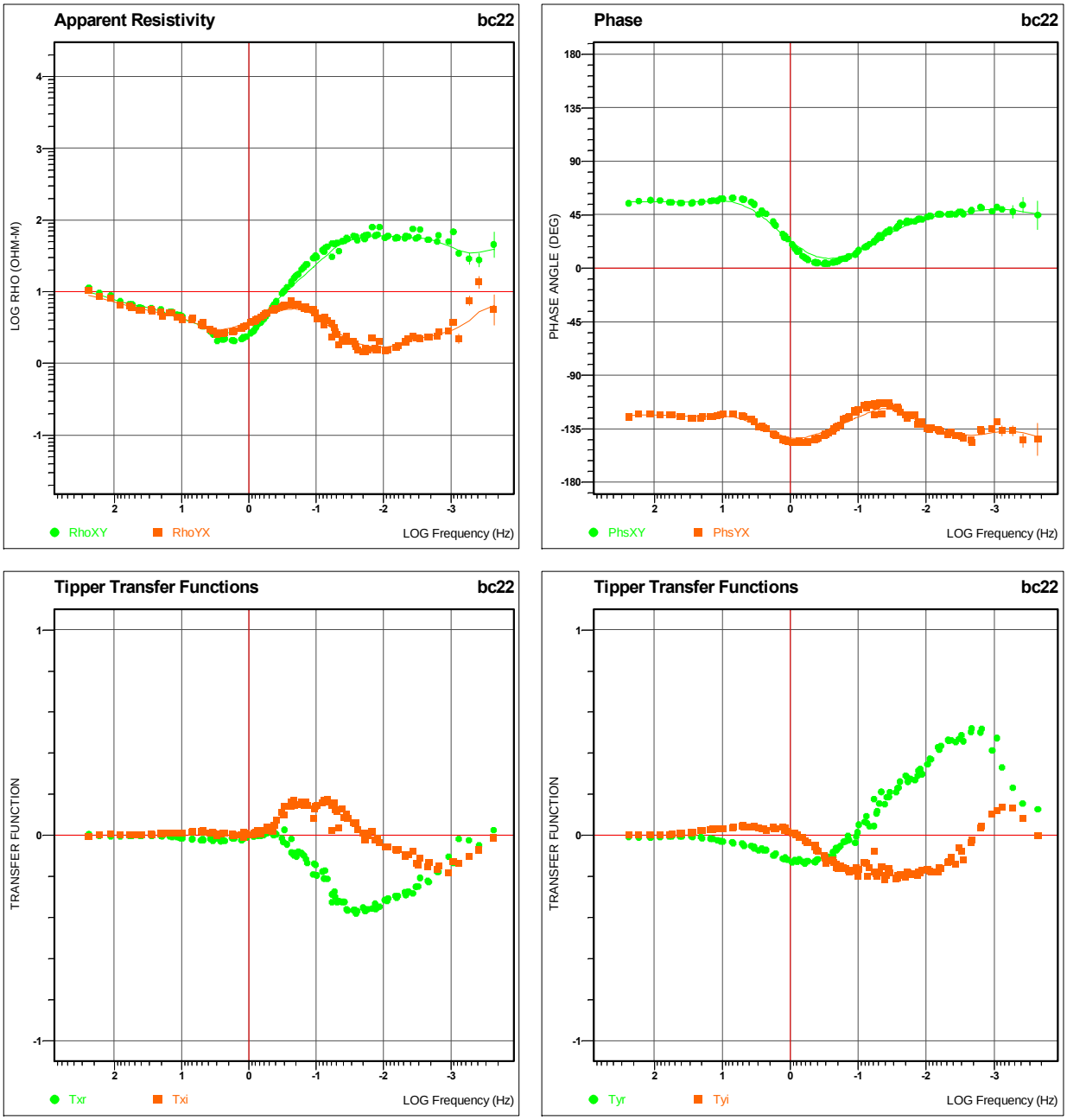


Reviewer Date: December 2, 2008

Comments:

- Data quality is good

Site BC22 Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)



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