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

1. Association/Logistical Notes

MT Acquisition: December 2-December 4, 2008
Document Date: December 6, 2008

QuickLay Version: 3.00.Alpha_33

Notes By: Joel Stockill

BC Line 1 – Sites read

Sites	Location UTM WGA84 Zone 54J		Magnetic Sensors			True Azimuth			
	Northing	Easting	Hx	Hy	Hz	Hx	Hy	Ex	Ey
BC08	6666520	430869	P50-2451	P50-2455	P50-2457	360	270	180	270
BC09	6674079	428659	P50-2445	P50-2456	P50-2447	360	270	180	270
BC10	6568661	424971	P50-2448	P50-2459	P50-2461	360	270	360	90

Magnetic Declination: approx.7˚E

1.1.1 Notes

All sites are located in sandy terrain. Bins were used at all sites to cover the Hz coil.

Site BC10:
Site was moved 1km South, away from a water-bore and cows.

2. MT Processing

MT Events

Sample Rate 1000 sps

Site	Serial Event @ Site	Serial Event @ Remote Site	Intersecting Event	Reference Site	Notes
BC08	SEvBC08_20081202.0357	SEvBC10_20081202.0601	BC08 (06:01, 02/12/2008 to 01:16, 05/12/2008)	BC10	Created 17 4h subevents Created 5 13h20m subevents
BC09	SEvBC09_20081202.0458	SEvBC10_20081202.0601	BC09 (06:01, 02/12/2008 to 18:35, 04/12/2008)	BC10	Created 15 4h subevents Created 5 12h subevents
BC10	SEvBC10_20081202.0601	SEvBC08_20081202.0357	BC10 (06:01, 02/12/2008 to 01:16, 05/12/2008)	BC09	Created 17 4h subevents Created 5 13h20m subevents

2.1.1 Site BC08

Name: BC08
Date: December 6, 2008

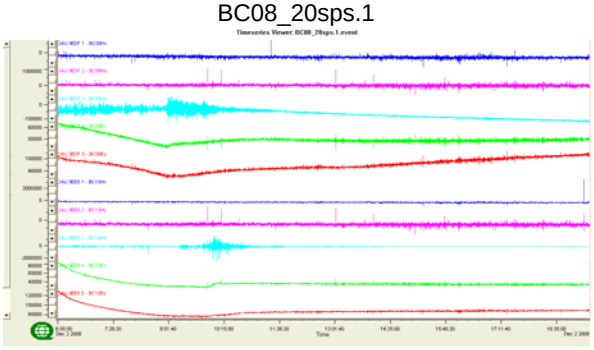
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days, 22h and 23min of data were acquired, with 2days 5h 20min used for final processing.

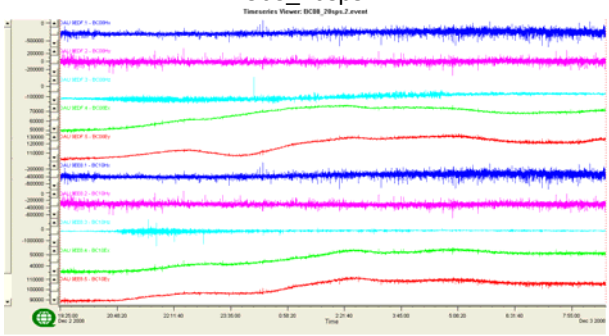
Events in Order	Time Series Notes
BC08_20sps.1 BC08_20sps.2 BC08_20sps.3 BC08_20sps.4 BC08_20sps.5	TS looks OK. Some noise in the coils at the site during BC08_20sps.4.

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

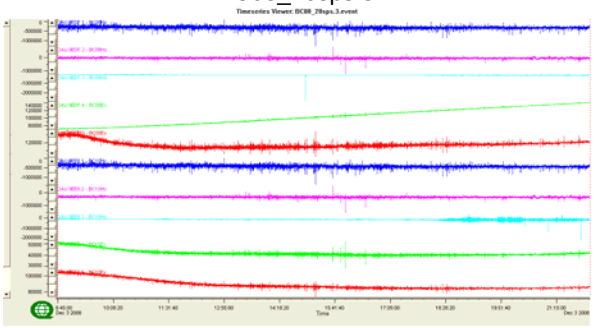
BC08_20sps.1



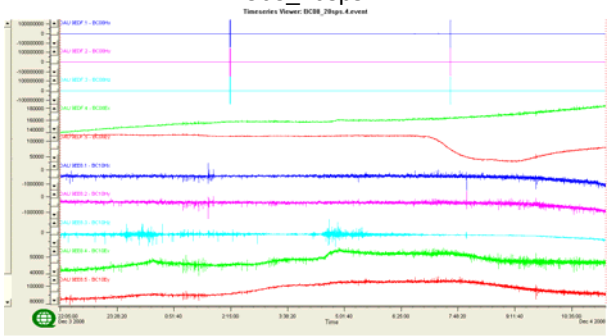
BC08_20sps.2



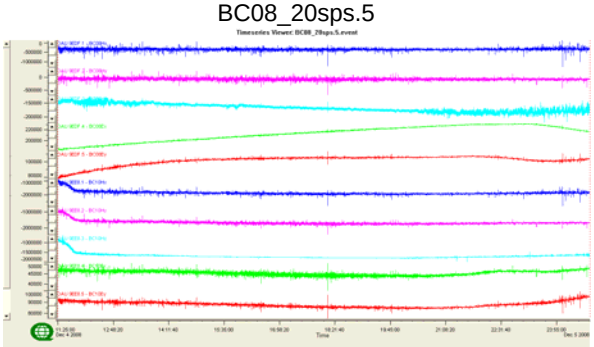
BC08_20sps.3



BC08_20sps.4



BC08_20sps.5

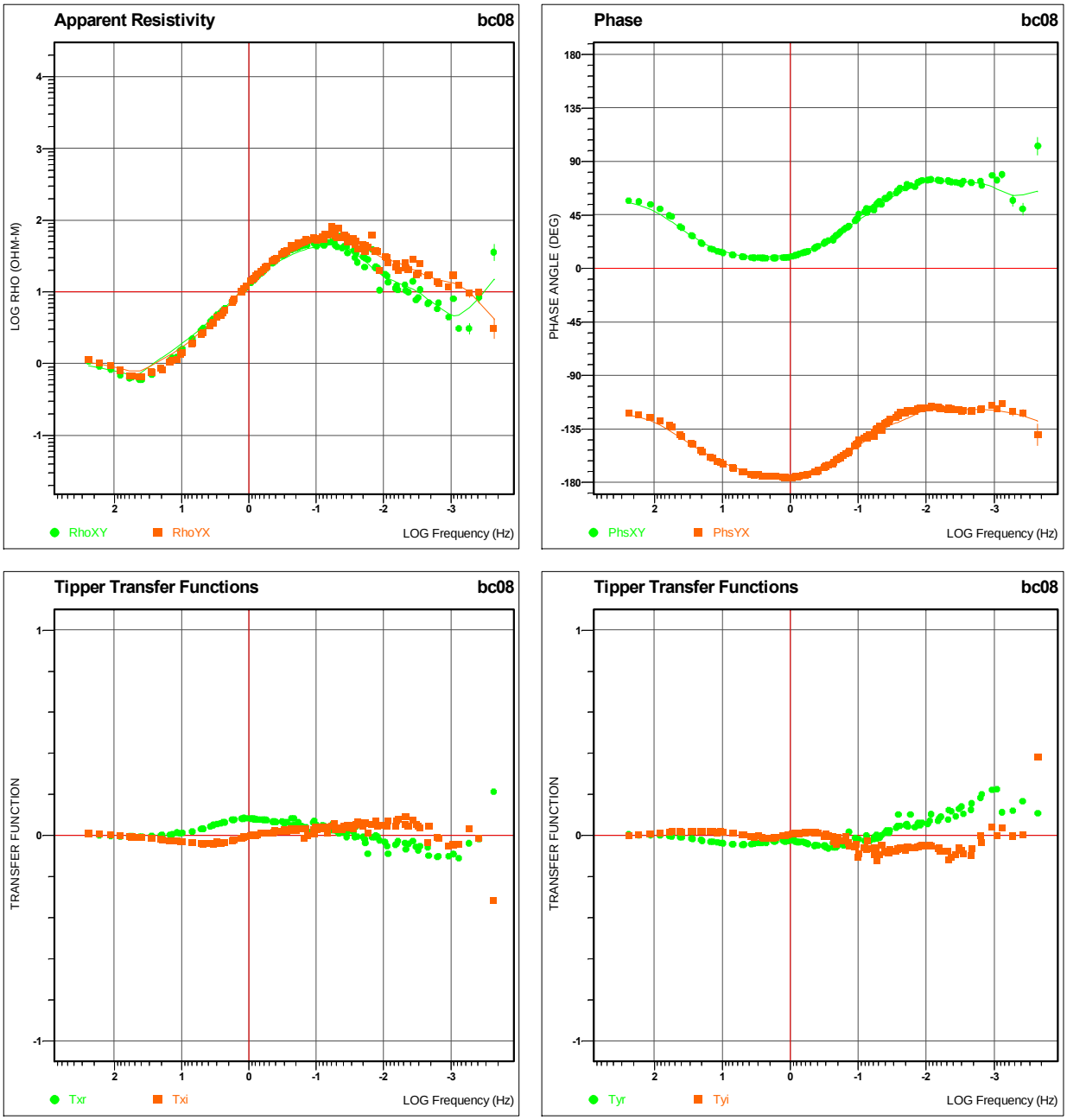


Reviewer Date: December 6, 2008

Comments:

- Good Quality data
- Noise in all components below 0.001Hz

Site BC08 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 BC09

Name: BC09
Date: December 6, 2008

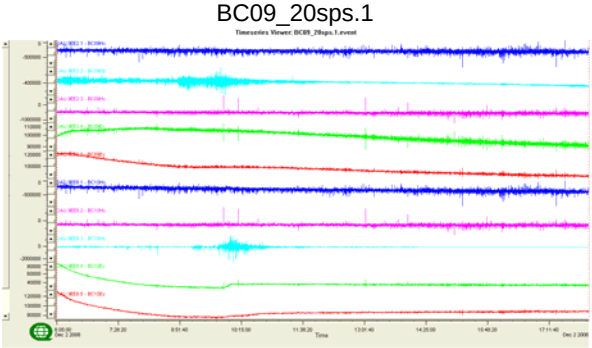
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days, 13h and 36min of data were acquired, with 1day 12h used for processing

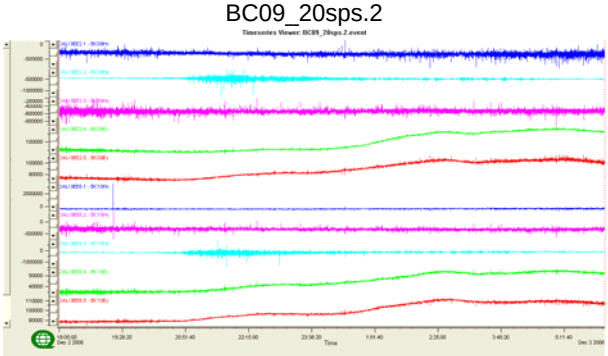
Events in Order	Time Series Notes
BC09_20sps.1 BC09_20sps.2 BC09_20sps.3 BC09_20sps.4 BC09_20sps.5	TS looks ok.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	1900	1900

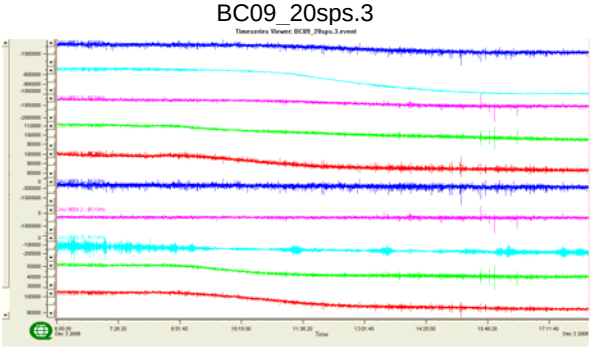
BC09_20sps.1



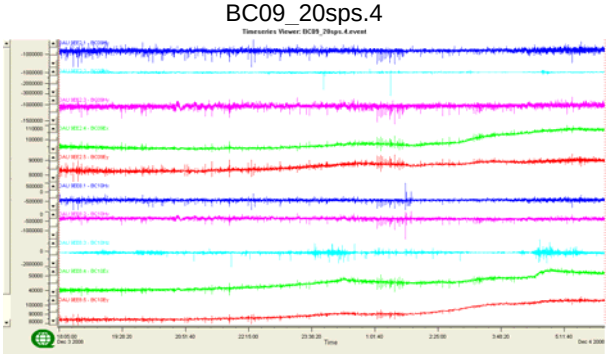
BC09_20sps.2



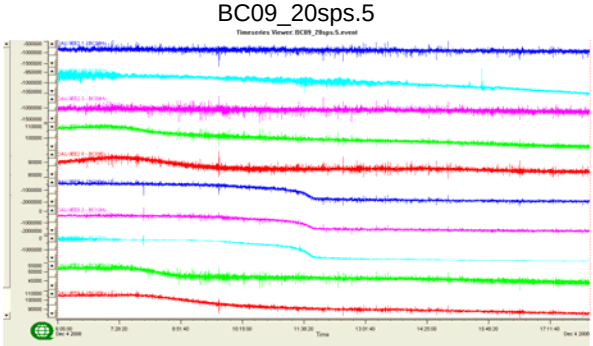
BC09_20sps.3



BC09_20sps.4



BC09_20sps.5

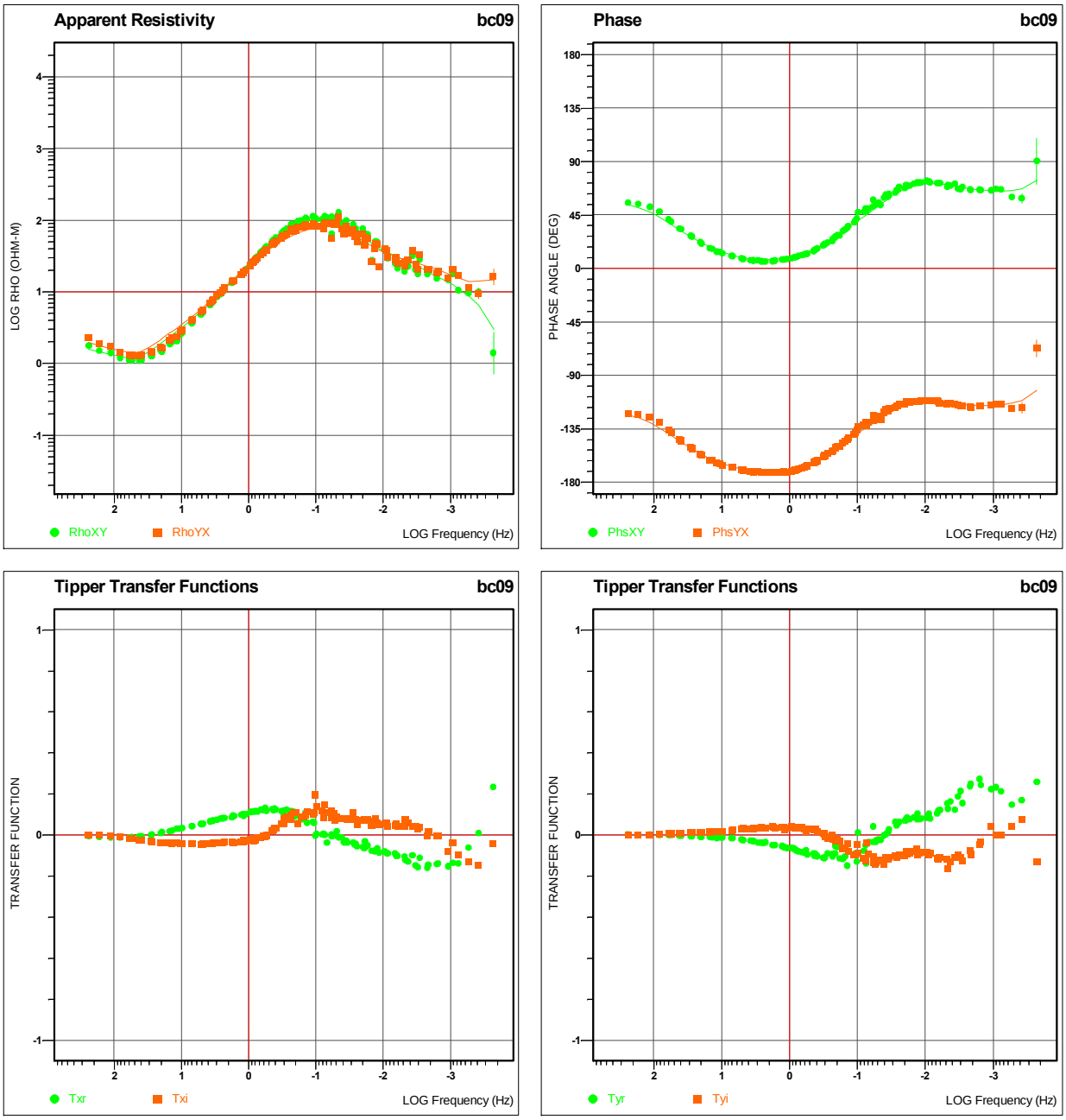


Reviewer Date: December 6, 2008

Comments:

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

Site BC09 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 BC10

Name: BC10
Date: December 6, 2008

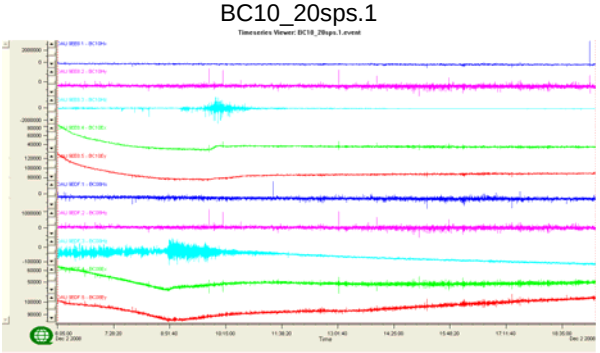
Setup Notes:

- 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, with 1day 16h used for processing

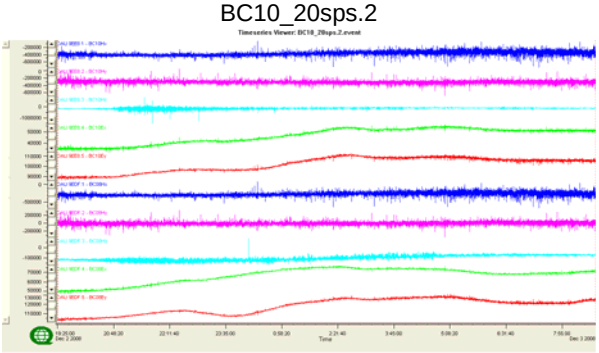
Events in Order	Time Series Notes
BC10_20sps.1 BC10_20sps.2 BC10_20sps.3 BC10_20sps.4 BC10_20sps.5	TS looks OK. Small noise in site Hx towards the end of BC10_20sps.1.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	900	1700

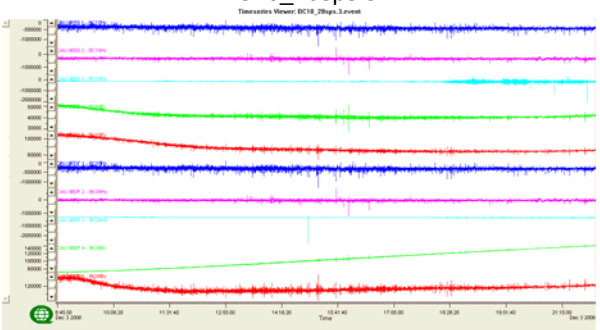
BC10_20sps.1



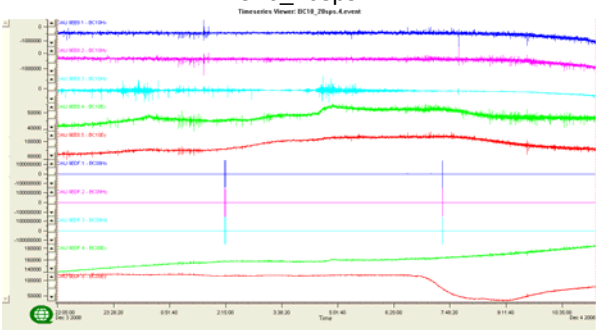
BC10_20sps.2



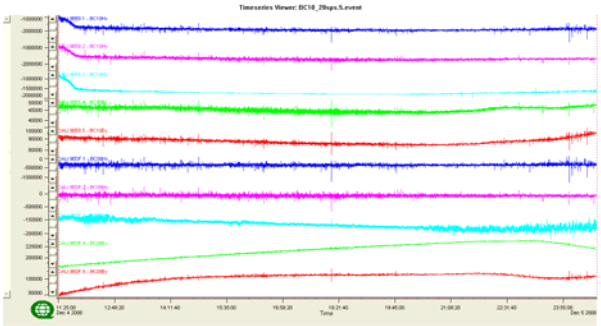
BC10_20sps.3



BC10_20sps.4



BC10_20sps.5

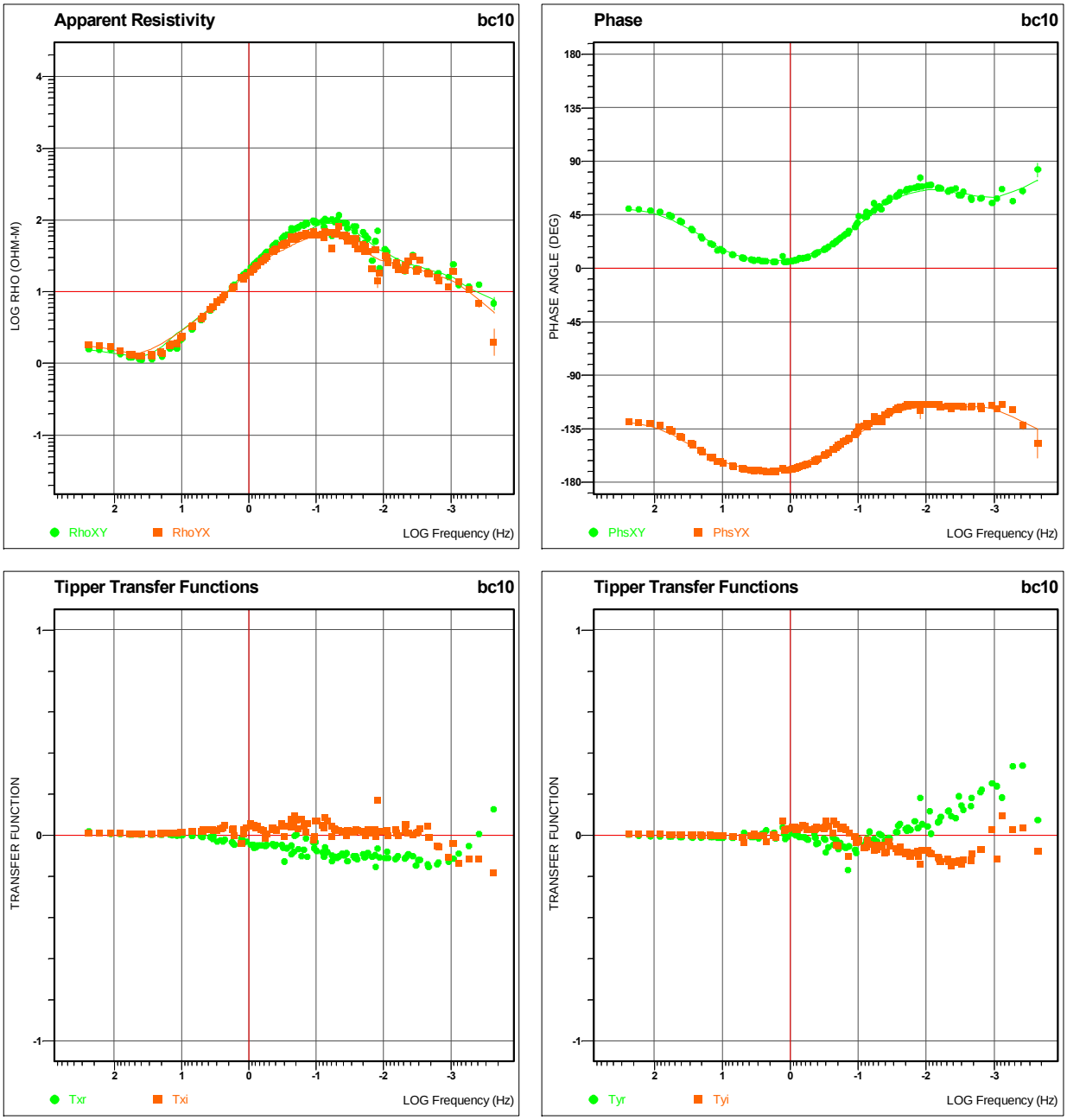


Reviewer Date: December 6, 2008

Comments:

- Good quality data
- Some noise in the vertical and horizontal components below 0.001Hz
- Slightly noisy vertical component below 1Hz

Site BC10 Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)



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