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

1. Association/Logistical Notes

MT Acquisition: December 1-December 3, 2008
Document Date: December 5, 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
BC11	6577507	423640	P50-2010	P50-2017	P50-2117	360	270	180	270
BC12	6588043	420314	P50-2117	P50-2126	P50-2202	360	270	180	270
BC13	6597248	419096	P50-2236	P50-2237	P50-2436	360	270	180	270

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.

2. MT Processing

MT Events

Sample Rate 1000 sps

Site	Serial Event @ Site	Serial Event @ Remote Site	Intersecting Event	Reference Site	Notes
BC11	SEvBC11_20081201.0316	SEvBC13_20081201.0124	BC11 (03:16, 01/12/2008 to 00:15, 04/12/2008)	BC13	Created 17 4h subevents Created 5 13h30m subevents
BC12	SEvBC12_20081201.0219	SEvBC13_20081201.0124	BC12 (02:19, 01/12/2008 to 00:15, 04/12/2008)	BC13	Created 17 4h subevents Created 5 13h30m subevents
BC13	SEvBC13_20081201.0124	SEvBC12_20081201.0219	BC13 (02:19, 01/12/2008 to 00:15, 04/12/2008)	BC12	Created 17 4h subevents Created 5 13h50m subevents

2.1.1 Site BC11

Name: BC11
Date: December 5, 2008

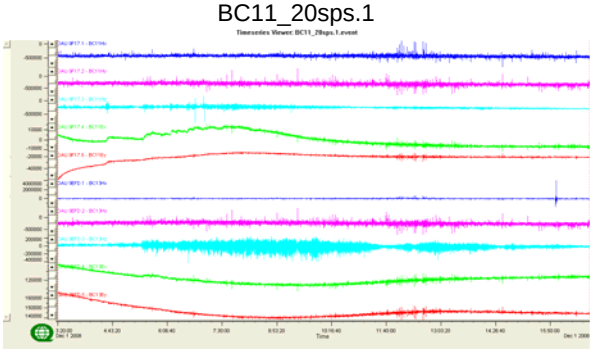
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days 20h and 59min of data were acquired, with 1day 17h 30min used for final processing.

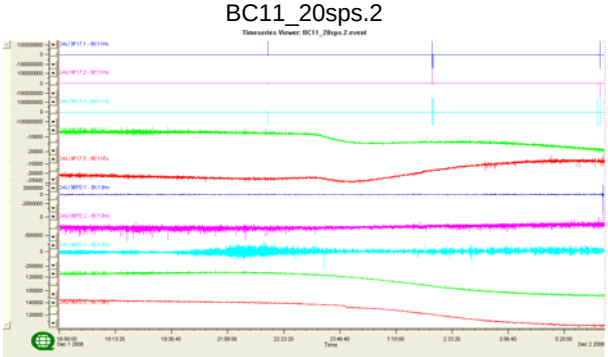
Events in Order	Time Series Notes
BC11_20sps.1 BC11_20sps.2 BC11_20sps.3 BC11_20sps.4 BC11_20sps.5	TS looks OK, drifting in the site electrics. Small noise in the coils at the site during BC11_20sps.2.

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

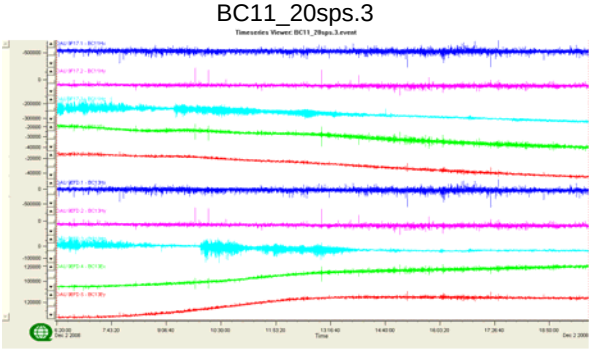
BC11_20sps.1



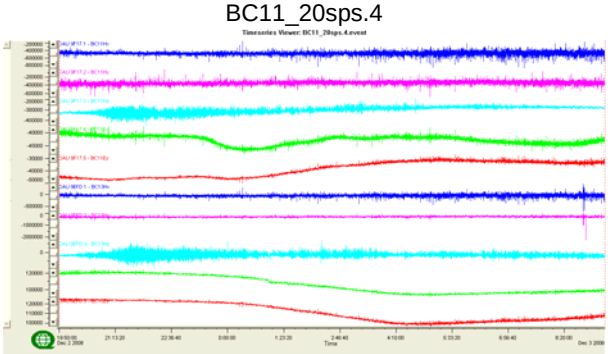
BC11_20sps.2



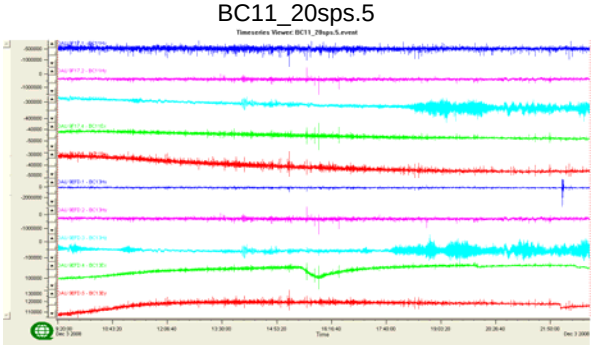
BC11_20sps.3



BC11_20sps.4



BC11_20sps.5

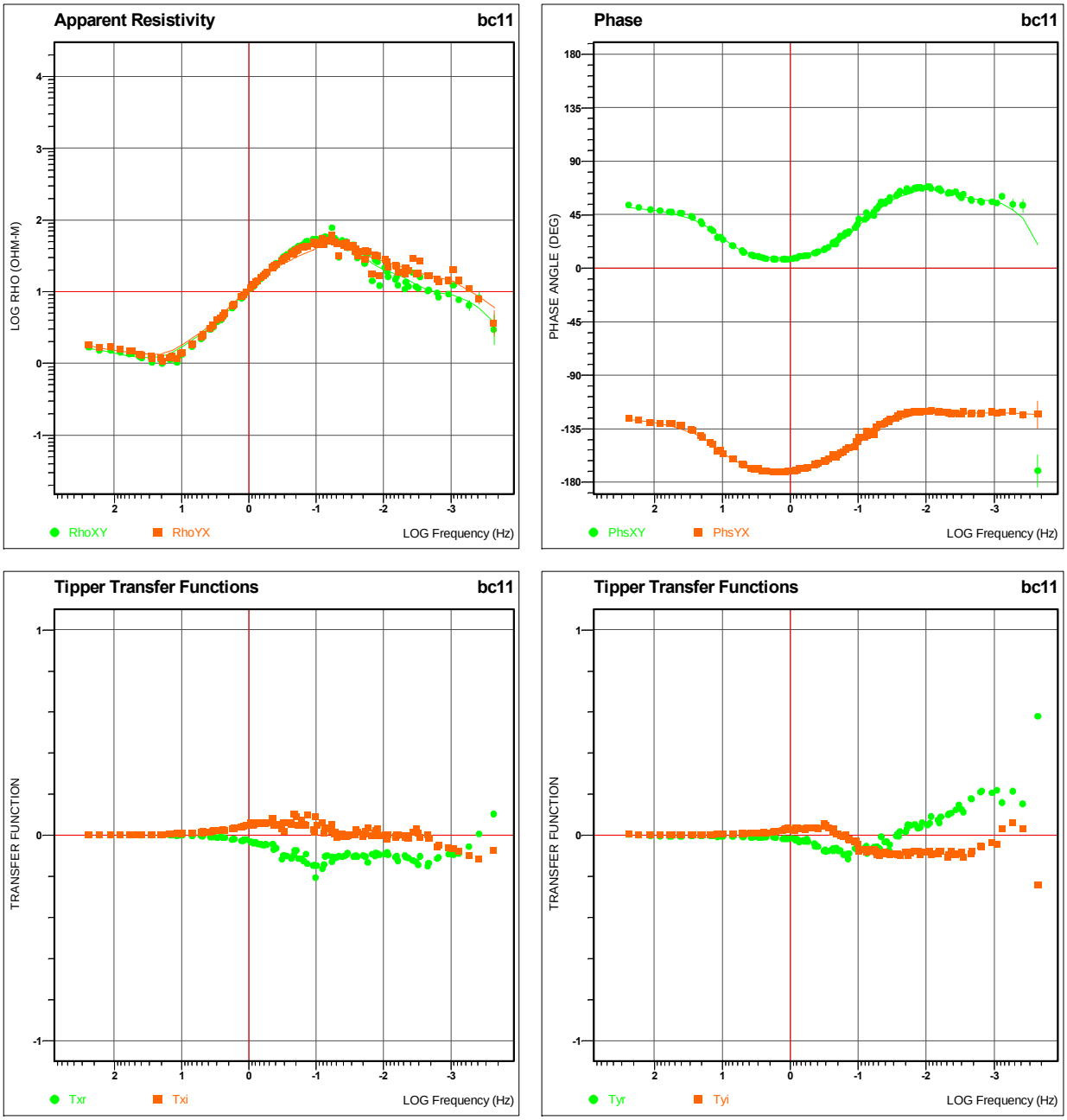


Reviewer Date: December 5, 2008

Comments:

- Good Quality data

Site BC11 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 BC12

Name: BC12
Date: December 5, 2008

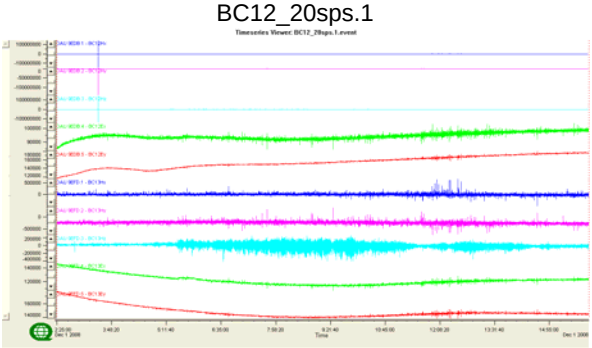
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days, 20h and 29min of data were acquired, with 2days 6h used for processing

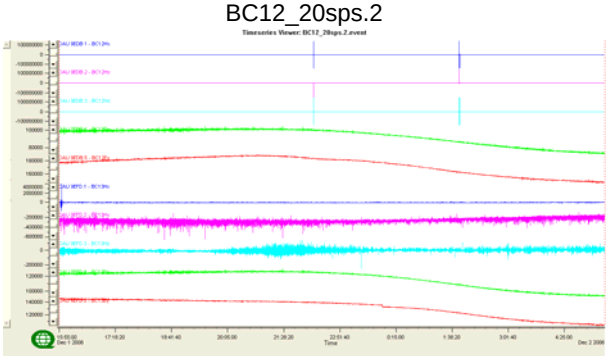
Events in Order	Time Series Notes
BC12_20sps.1 BC12_20sps.2 BC12_20sps.3 BC12_20sps.4 BC12_20sps.5	TS looks ok. Some small noise in the sites coils. DC shift in the site Ex during BC12_20sps.4.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	600	900

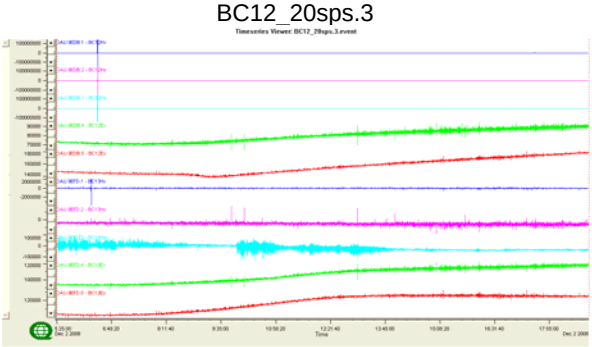
BC12_20sps.1



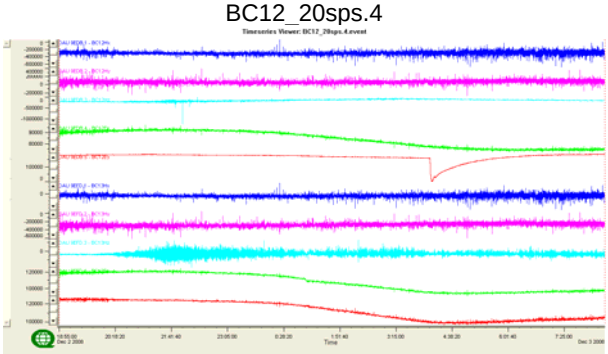
BC12_20sps.2



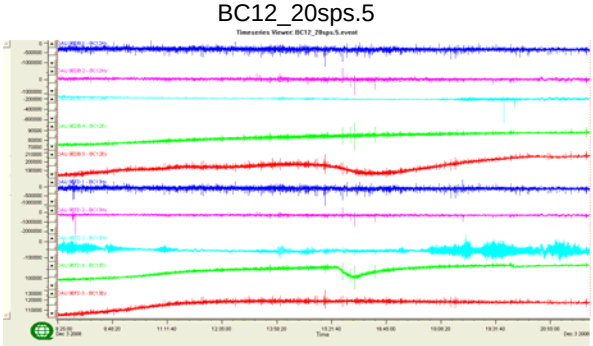
BC12_20sps.3



BC12_20sps.4



BC12_20sps.5

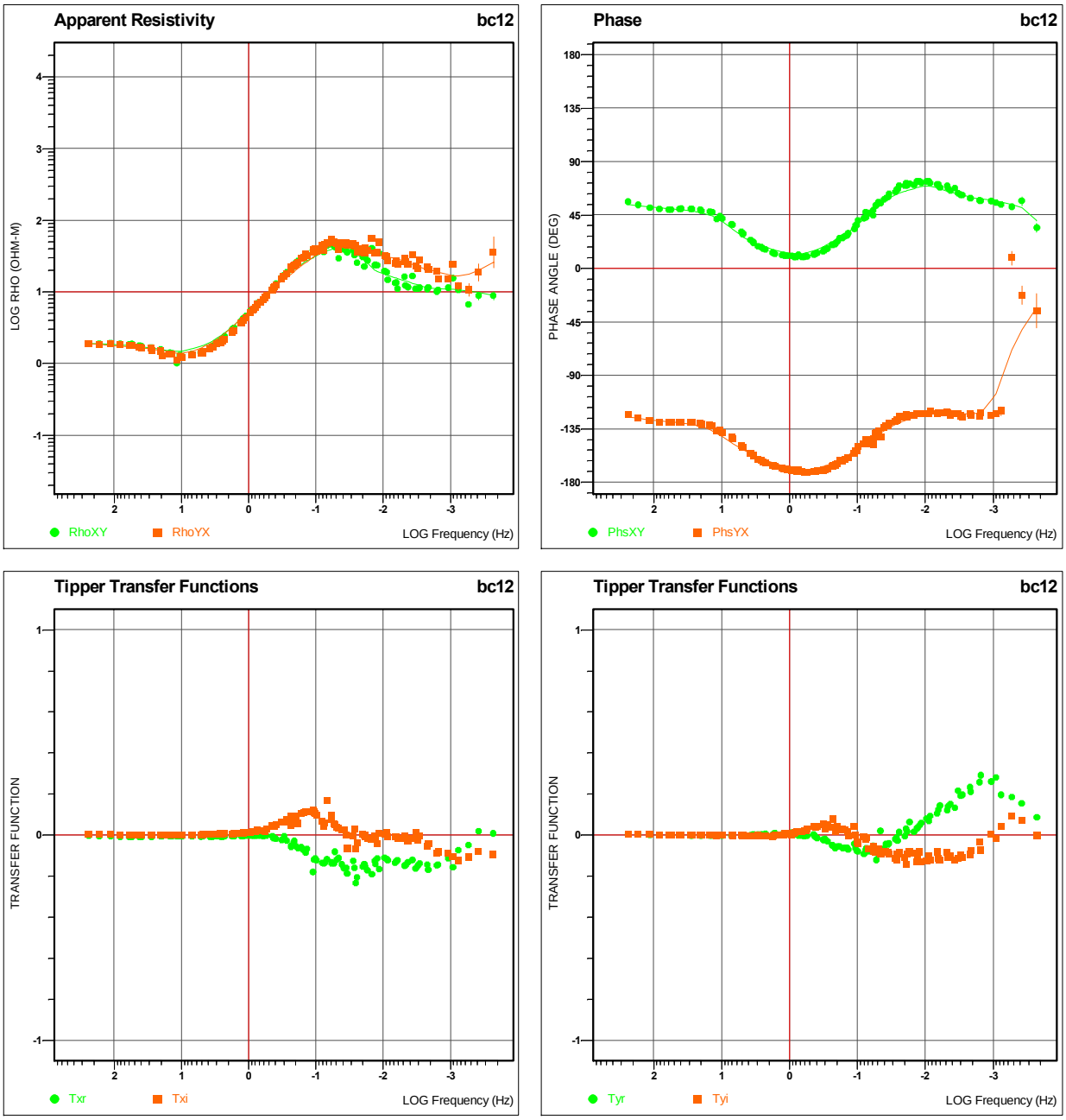


Reviewer Date: December 5, 2008

Comments:

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

Site BC12 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 BC13

Name: BC13
Date: December 5, 2008

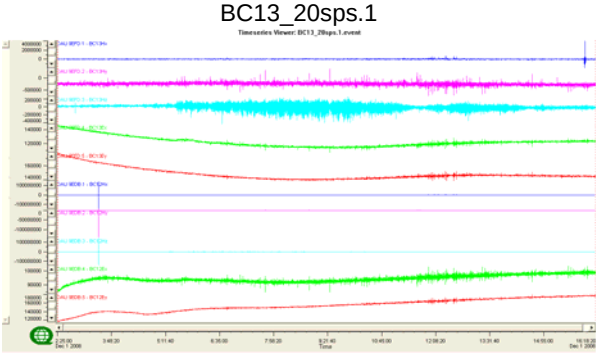
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days, 20h and 29min of data were acquired, with 1days 17h 30min used for processing

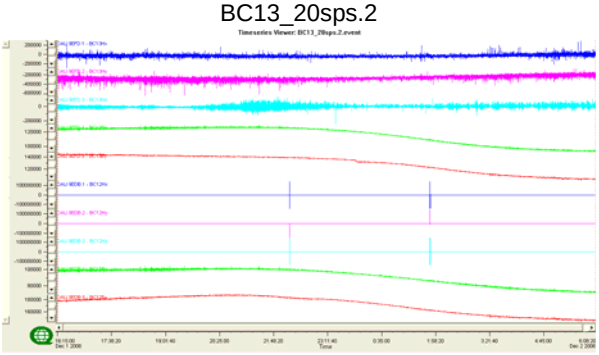
Events in Order	Time Series Notes
BC13_20sps.1 BC13_20sps.2 BC13_20sps.3 BC13_20sps.4 BC13_20sps.5	TS looks OK. Some small noise in site Hx.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	900	800

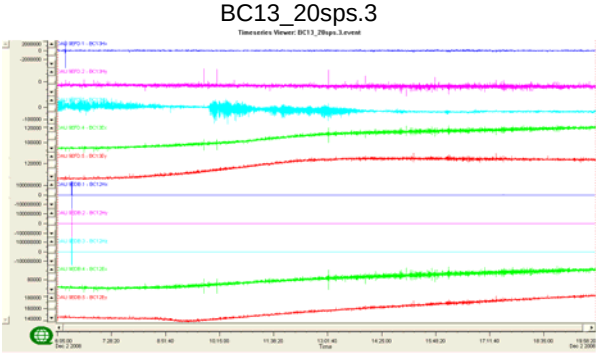
BC13_20sps.1



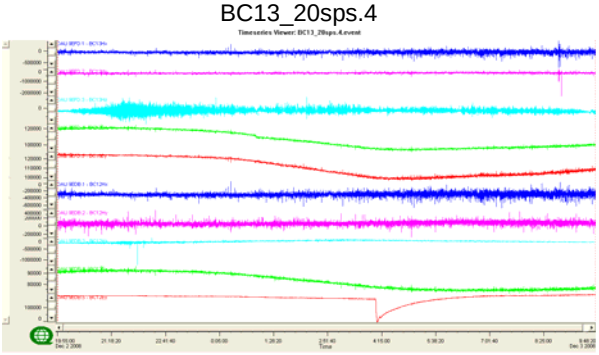
BC13_20sps.2



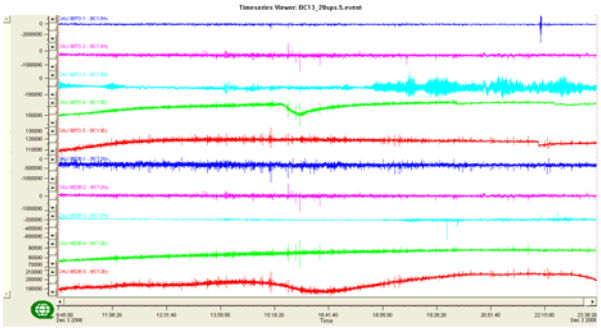
BC13_20sps.3



BC13_20sps.4



BC13_20sps.5

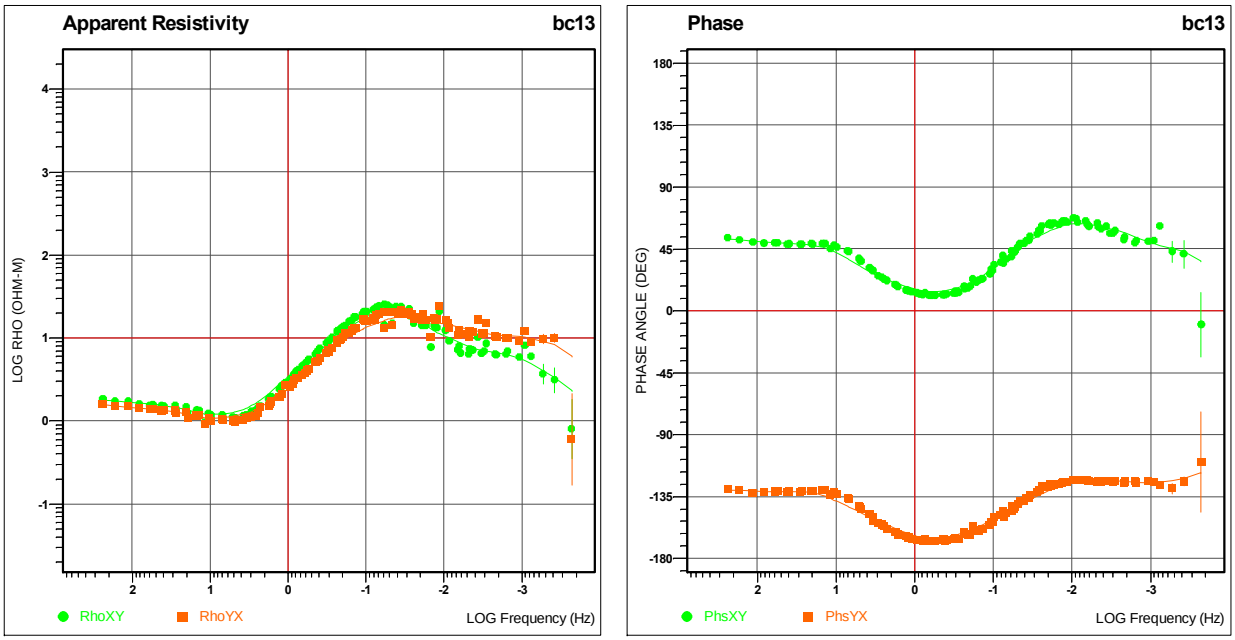


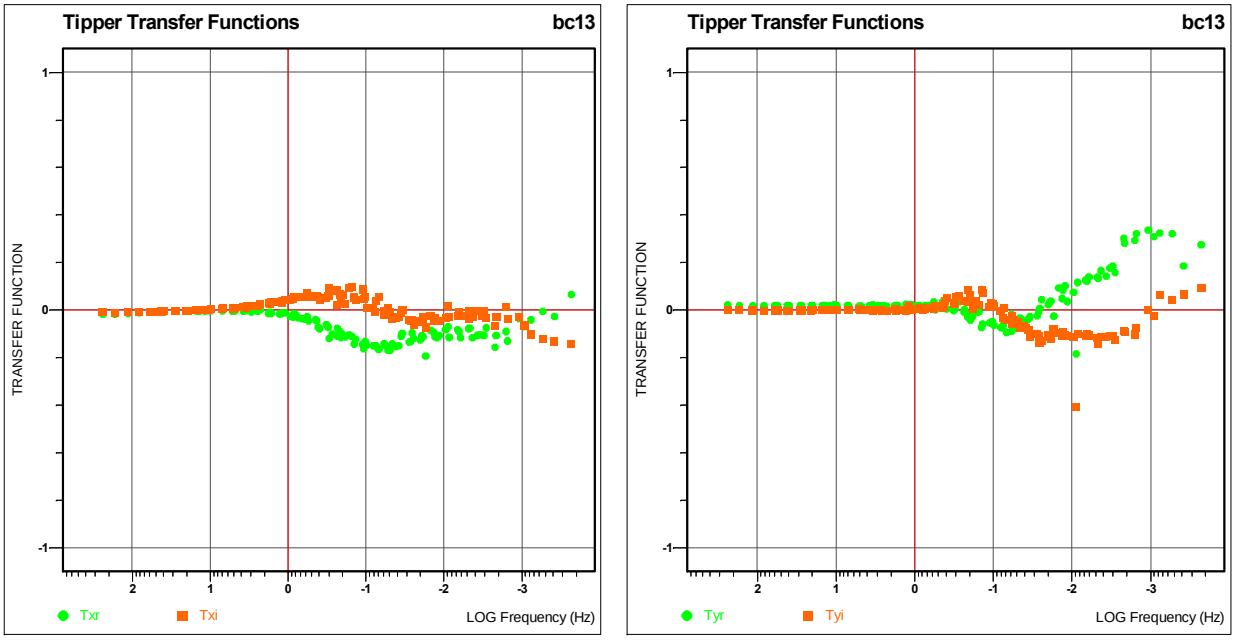
Reviewer Date: December 5, 2008

Comments:

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

Site BC13 Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)





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