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

1. Association/Logistical Notes

MT Acquisition: November 29-December 1, 2008
Document Date: December 3, 2008

QuickLay Version: 3.00.Alpha_33

Notes By: Joel Stockill
Dominic Brown

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
BC17	6634563	415497	P50-2448	P50-2459	P50-2461	360	270	360	270
BC18	6643435	411560	P50-2451	P50-2455	P50-2457	360	270	360	90
BC19	6661246	400216	P50-2456	P50-2447	P50-2445	180	270	180	270

Magnetic Declination: approx.7˚E

1.1.2 Notes

All sites are located in sandy terrain.

Site BC19:
The site is located 100m to the North of a track with a fence running along it.

2. MT Processing

MT Events

Sample Rate 1000 sps

Site	Serial Event @ Site	Serial Event @ Remote Site	Intersecting Event	Reference Site	Notes
BC17	SEvBC17_200811 29.0535	SEvBC19_20081 128.2348	BC17 (05:35, 29/11/2008 to 21:34, 01/12/2008)	BC19	Created 16 4h subevents Created 5 ~12h40m subevents
BC18	SEvBC18_200811 29.0512	SEvBC19_20081 128.2348	BC18 (05:12, 29/11/2008 to 21:34, 01/11/2008)	BC19	Created 17 4h subevents Created 5 ~12h40m subevents
BC19	SEvBC19_200811 28.2348	SEvBC18_20081 129.0512	BC19 (05:12, 29/11/2008 to 21:34, 01/11/2008)	BC18	Created 16 4h subevents Created 5 ~12h40m subevents

2.1.1 Site BC17

Name: BC17
Date: December 3, 2008

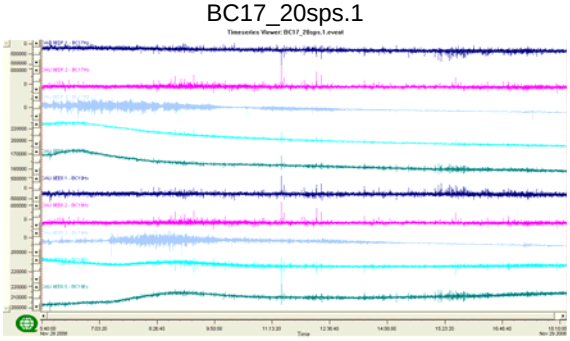
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days 5h and 58min of data were acquired and used for final processing.

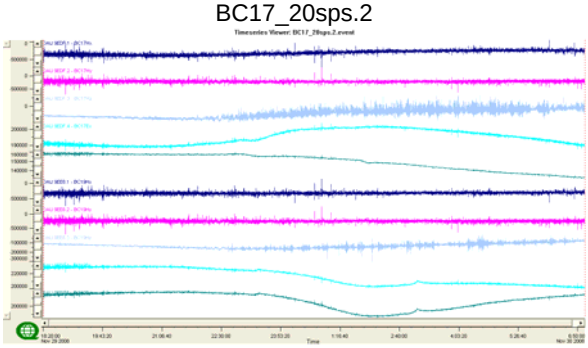
Events in Order	Time Series Notes
BC17_20sps.1 BC17_20sps.2 BC17_20sps.3 BC17_20sps.4 BC17_20sps.5	TS looks OK, some drifting in the site electrics

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	700	650

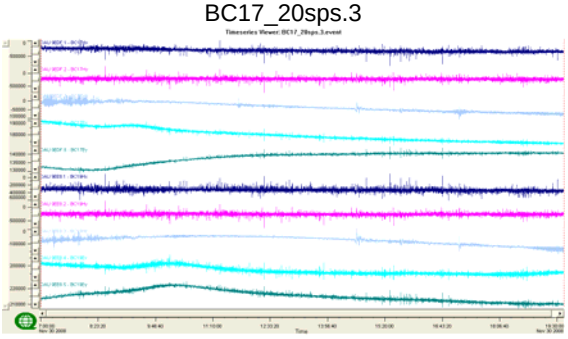
BC17_20sps.1



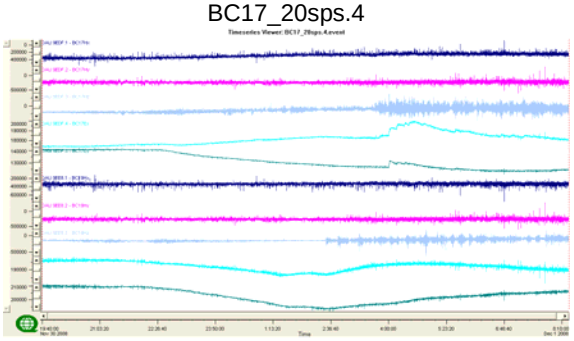
BC17_20sps.2



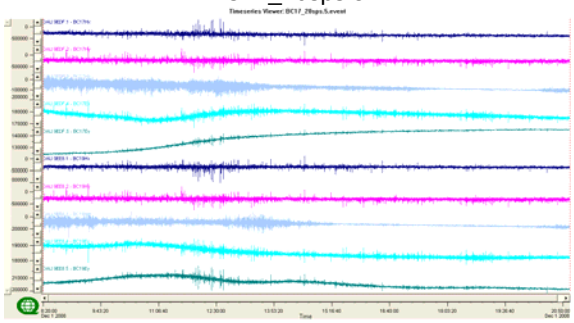
BC17_20sps.3



BC17_20sps.4



BC17_20sps.5

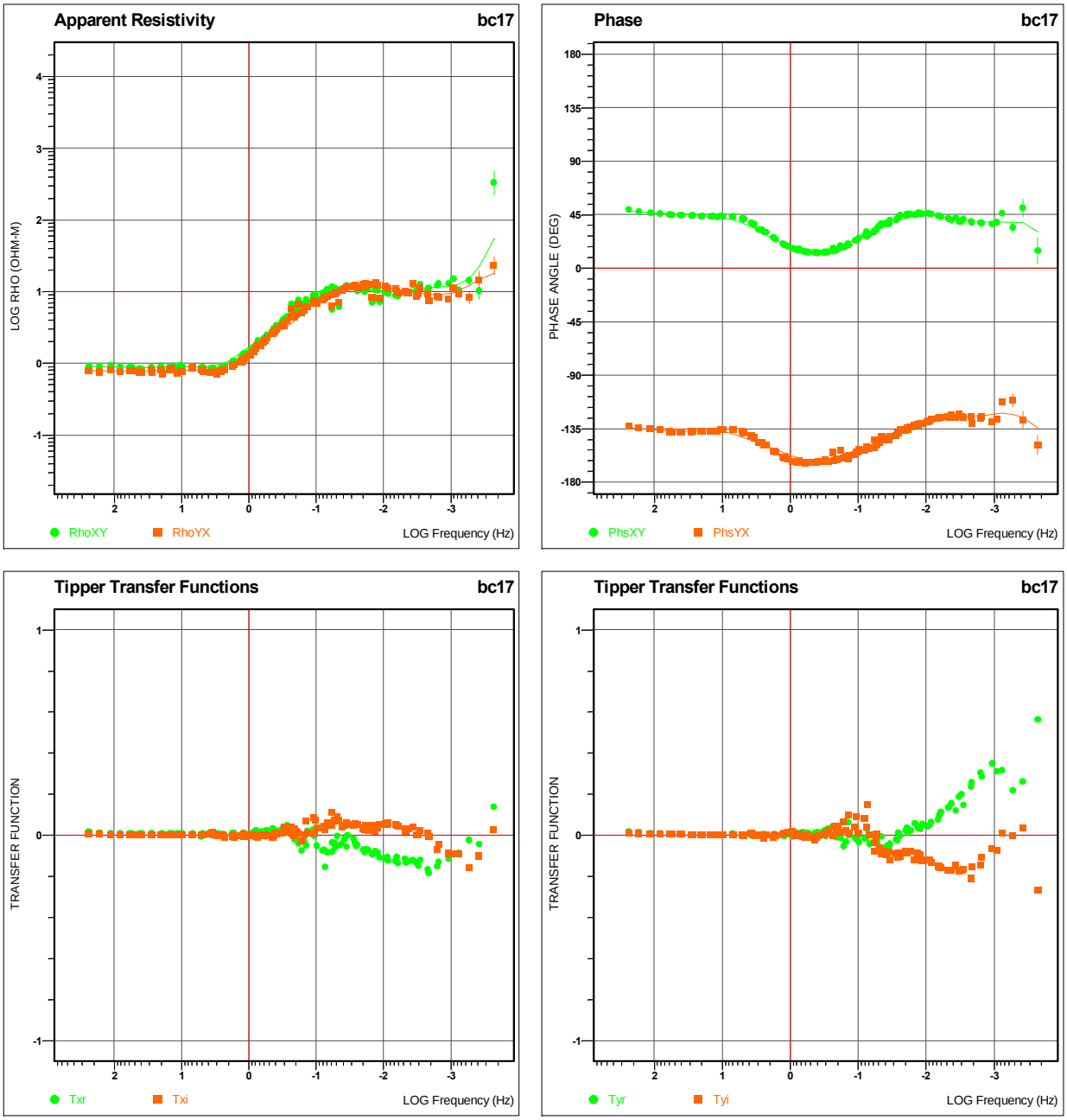


Reviewer Date: December 3, 2008

Comments:

- Both the horizontal and vertical components are good some noise F<0.002Hz

Site BC17 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 BC18

Name: BC18
Date: December 3, 2008

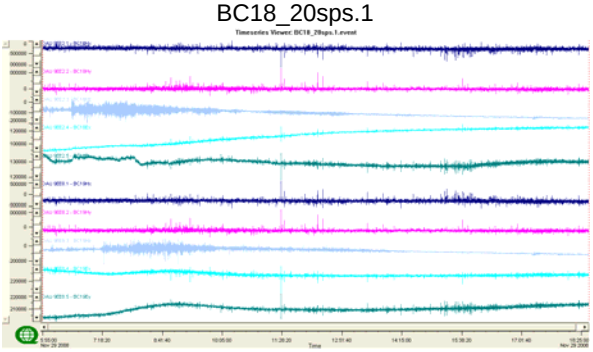
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days, 16h and 21min of data were acquired and used for processing

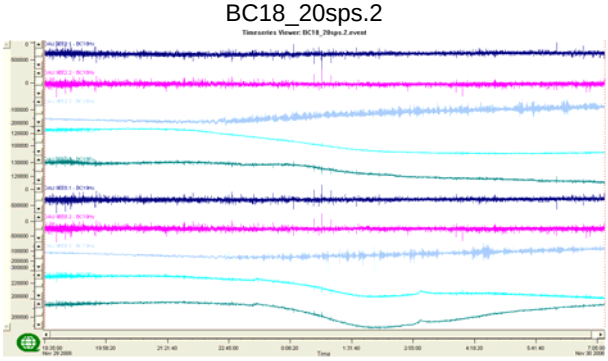
Events in Order	Time Series Notes
BC18_20sps.1 BC18_20sps.2 BC18_20sps.3 BC18_20sps.4 BC18_20sps.5	TS looks ok.

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

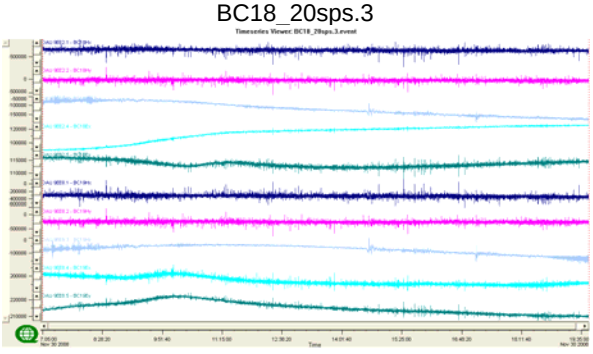
BC18_20sps.1



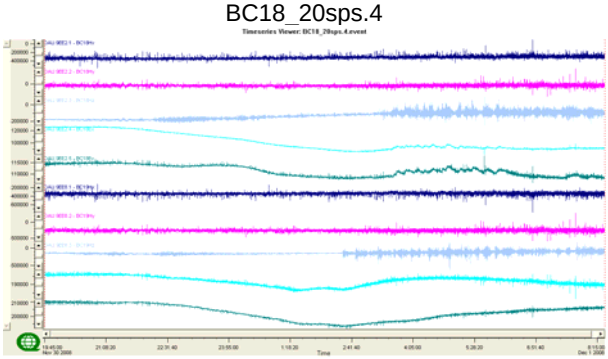
BC18_20sps.2



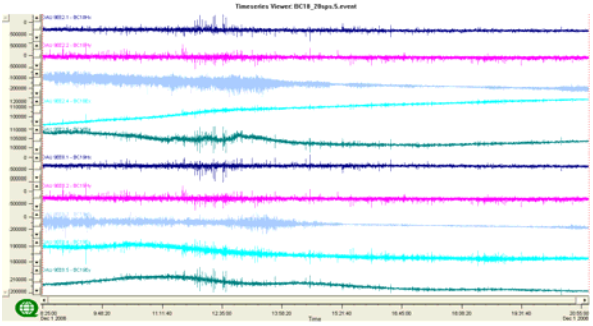
BC18_20sps.3



BC18_20sps.4



BC18_20sps.5

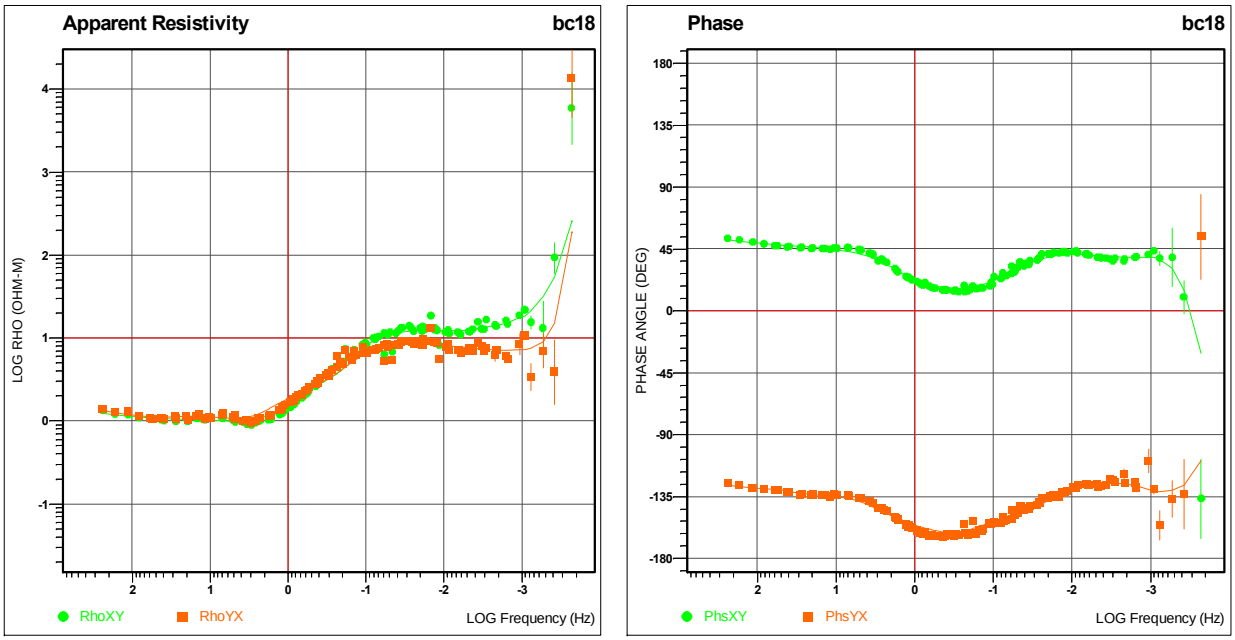


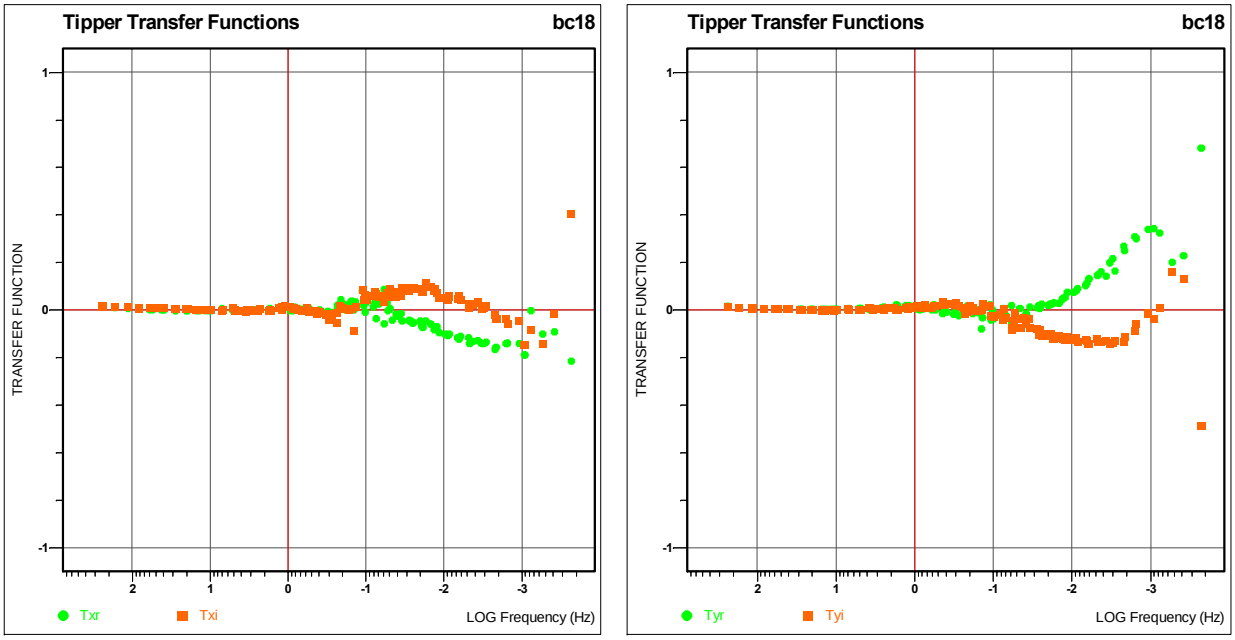
Reviewer Date: December 3, 2008

Comments:

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

Site BC18 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 BC19

Name: BC19
Date: December 3, 2008

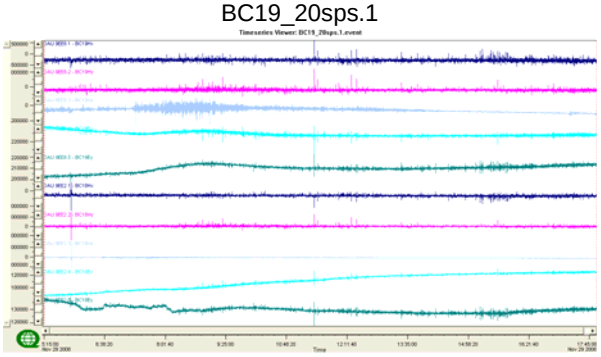
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days 16h and 21min of data were acquired and used for processing

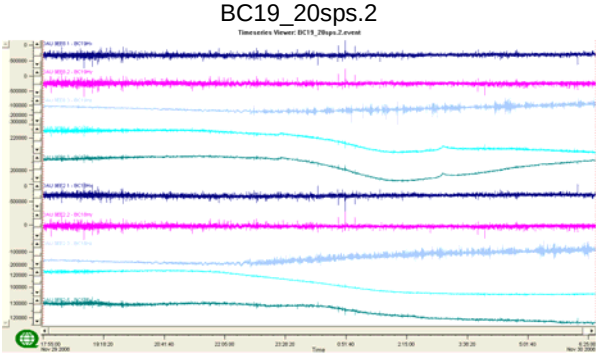
Events in Order	Time Series Notes
BC19_20sps.1 BC19_20sps.2 BC19_20sps.3 BC19_20sps.4 BC19_20sps.5	TS looks OK.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	2200	1500

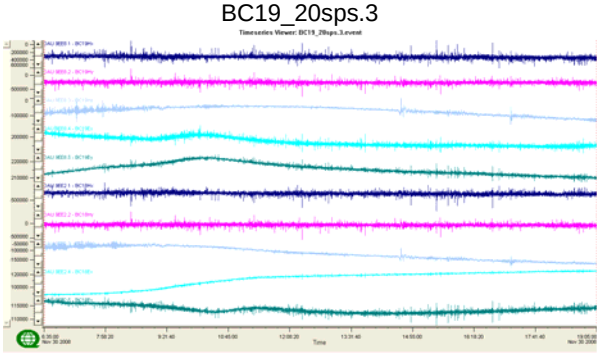
BC19_20sps.1



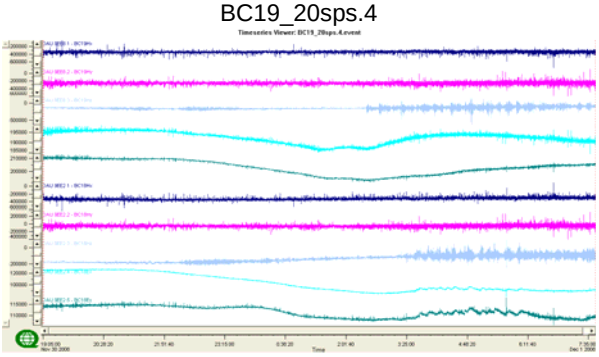
BC19_20sps.2



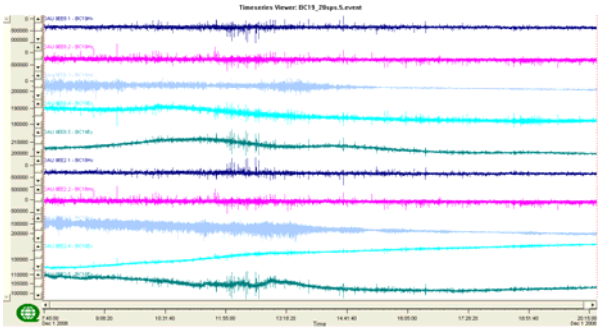
BC19_20sps.3



BC19_20sps.4



BC19_20sps.5

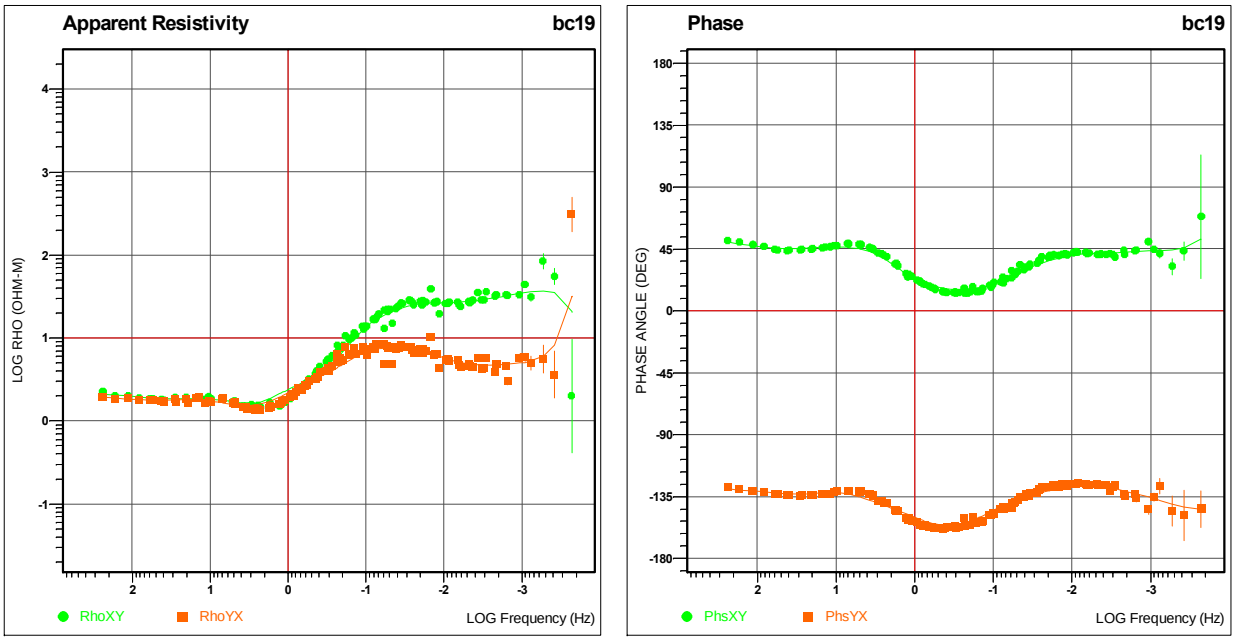


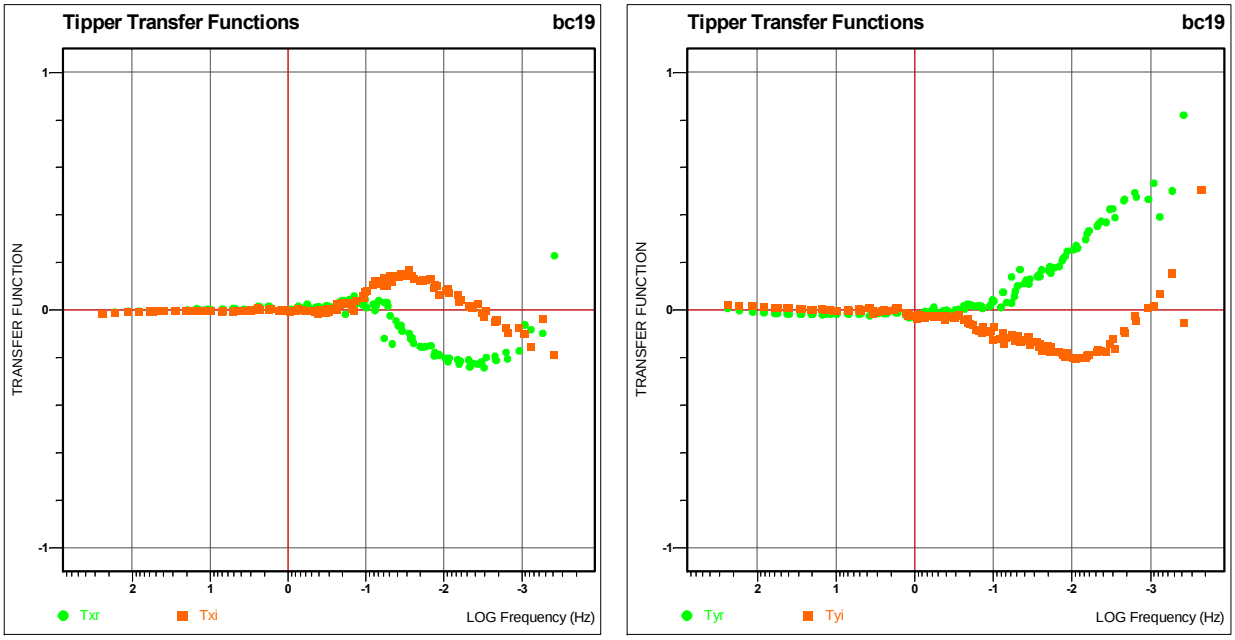
Reviewer Date: December 3, 2008

Comments:

- Good quality data
- Some noise in the vertical and horizontal components below 0.002Hz

Site BC19 Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)





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