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

1. Association/Logistical Notes

MT Acquisition: December 4-December 7, 2008
Document Date: December 9, 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
BC04	6517229	429446	BF7-9622	BF7-9623	BF7-9016	360	270	360	90
BC05	6527212	429090	P50-2236	P50-2237	P50-2436	360	270	360	90
BC06	6537202	429041	P50-2117	P50-2126	P50-2202	360	270	180	270
BC07	6547007	428983	P50-2010	P50-2017	P50-2014	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. Storms near survey area during acquisition.
Sites recorded for an extra day due to road closures resulting from the storms.

Site BC04:
Hz did not record properly. Site is being reacquired.

2. MT Processing

MT Events

Sample Rate 1000 sps

Site	Serial Event @ Site	Serial Event @ Remote Site	Intersecting Event	Reference Site	Notes
BC05	SEvBC05_200812 04.0529	SEvBC07_200812 02.0601	BC05 (05:29, 04/12/2008 to 01:27, 08/12/2008)	BC07	Created 22 4h subevents Created 6 15h subevents
BC06	SEvBC06_200812 04.0437	SEvBC05_200812 04.0529	BC06 (05:29, 04/12/2008 to 00:57, 08/12/2008)	BC05	Created 22 4h subevents Created 6 15h subevents
BC07	SEvBC07_200812 04.0336	SEvBC05_200812 04.0529	BC07 (05:29, 04/12/2008 to 01:27, 08/12/2008)	BC05	Created 22 4h subevents Created 6 15h subevents

2.1.1 Site BC04

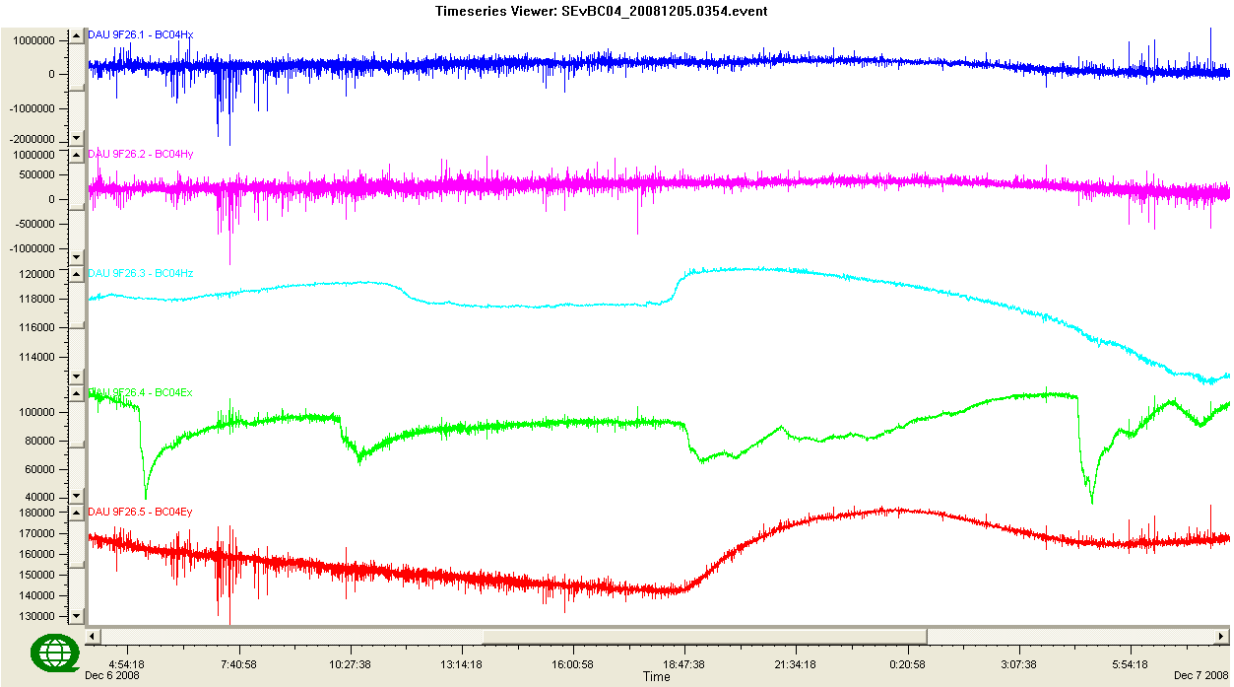
Name: BC04
Date: December 9, 2008

Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 3days, 18h and 58min of data were acquired.

Events in Order	Time Series Notes
No events were created	Hz was not recording, site will be reacquired.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	50	50	50	600	800



2.1.2 Site BC05

Name: BC05
Date: December 9, 2008

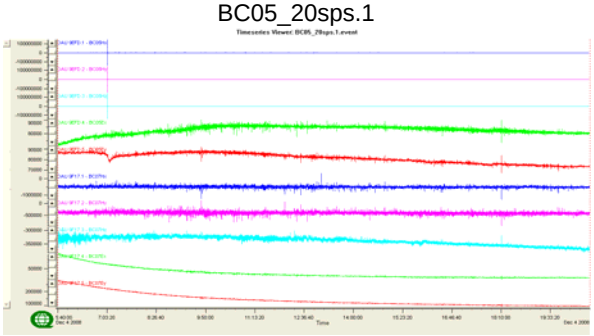
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 3days, 20h and 37min of data were acquired, with 3days 20h used for final processing.

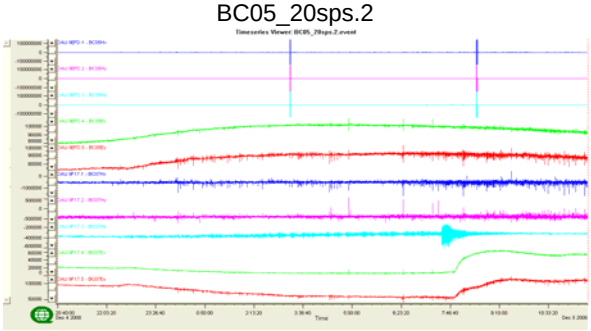
Events in Order	Time Series Notes
BC05_20sps.1 BC05_20sps.2 BC05_20sps.3 BC05_20sps.4 BC05_20sps.5 BC05_20sps.6	TS looks OK. Some noise in the coils during acquisition.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	3800	2800

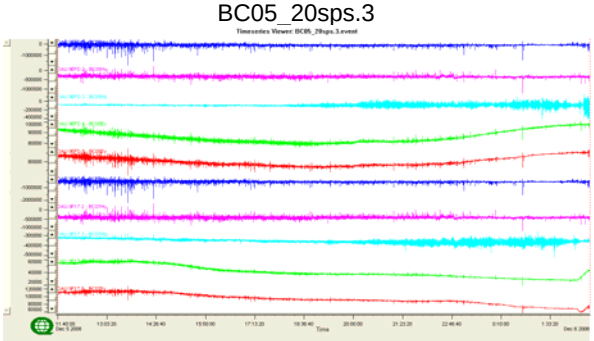
BC05_20sps.1



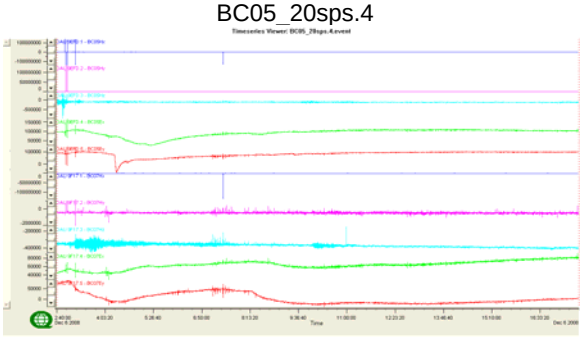
BC05_20sps.2



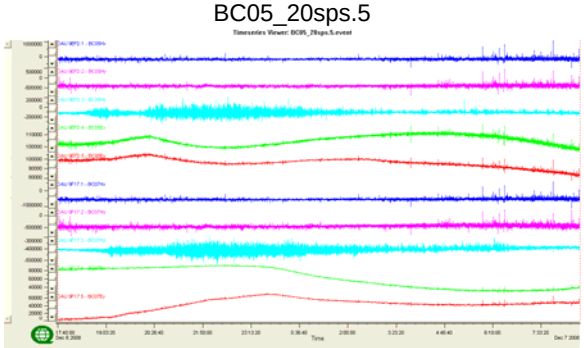
BC05_20sps.3



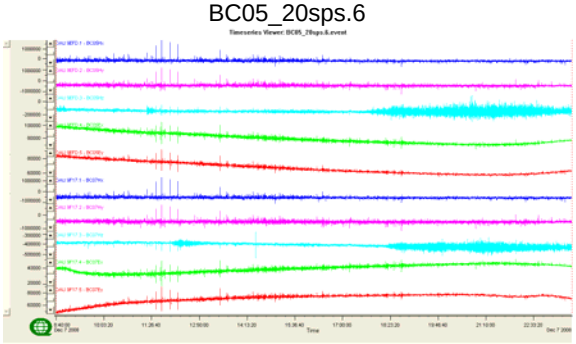
BC05_20sps.4



BC05_20sps.5



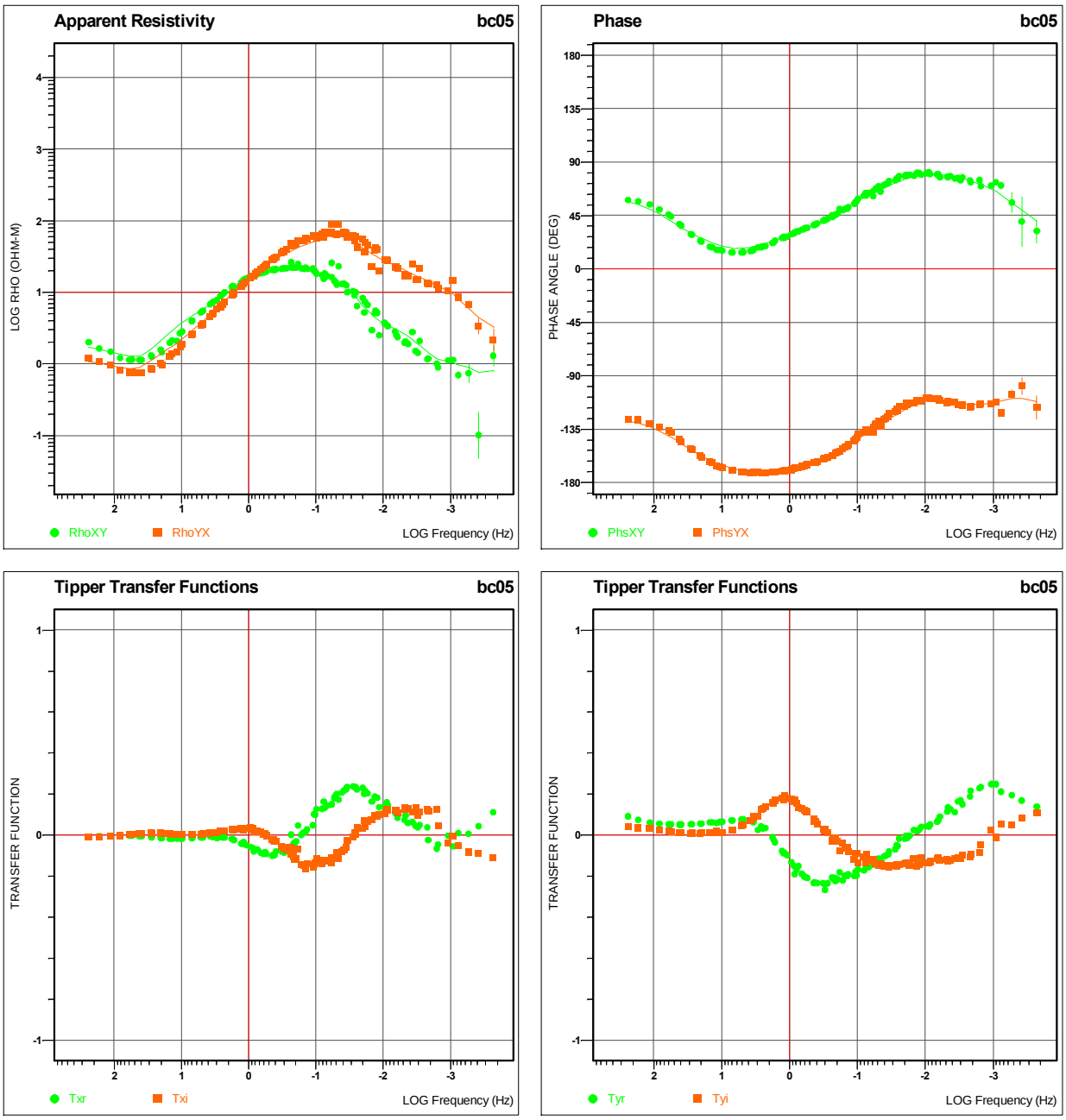
BC05_20sps.6



Reviewer Date: December 9, 2008
Comments:

- Good Quality data

Site BC05 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 BC06

Name: BC06
Date: December 9, 2008

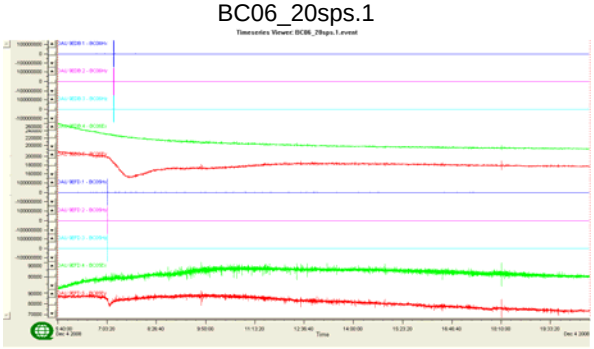
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 3days, 20h and 19min of data were acquired, with 3days 19h 30min used for processing

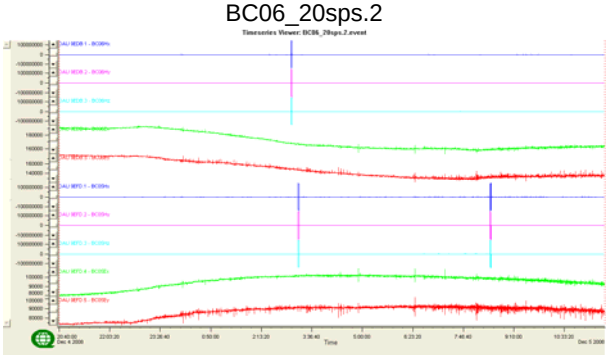
Events in Order	Time Series Notes
BC06_20sps.1 BC06_20sps.2 BC06_20sps.3 BC06_20sps.4 BC06_20sps.5 BC06_20sps.6	TS looks ok. Some noise in coils at the site.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	3600	2800

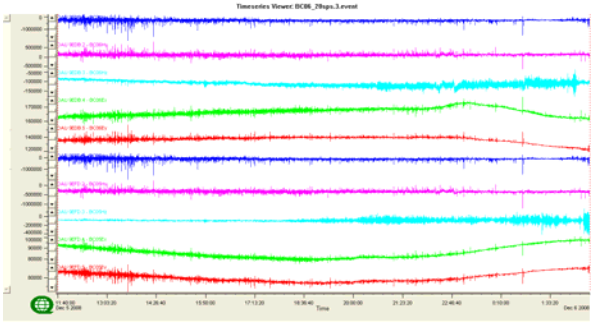
BC06_20sps.1



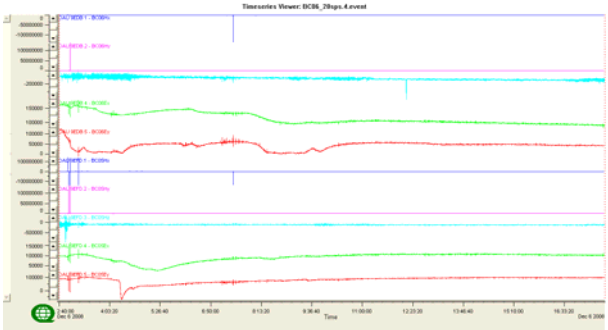
BC06_20sps.2



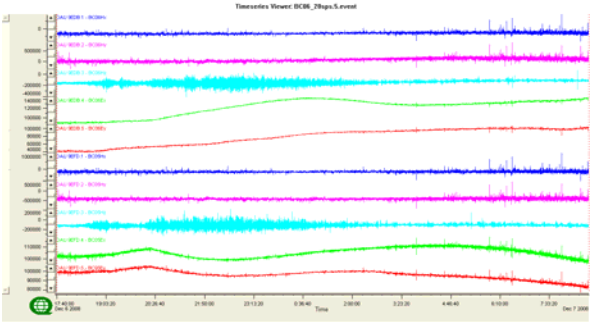
BC06_20sps.3



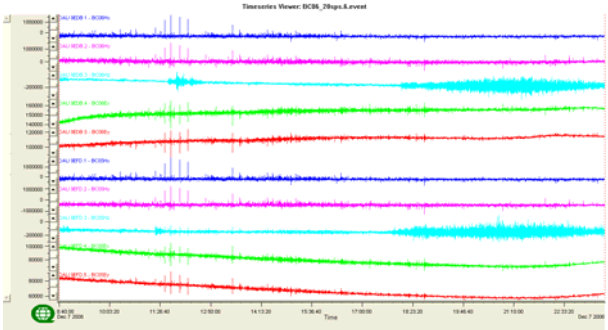
BC06_20sps.4



BC06_20sps.5



BC06_20sps.6

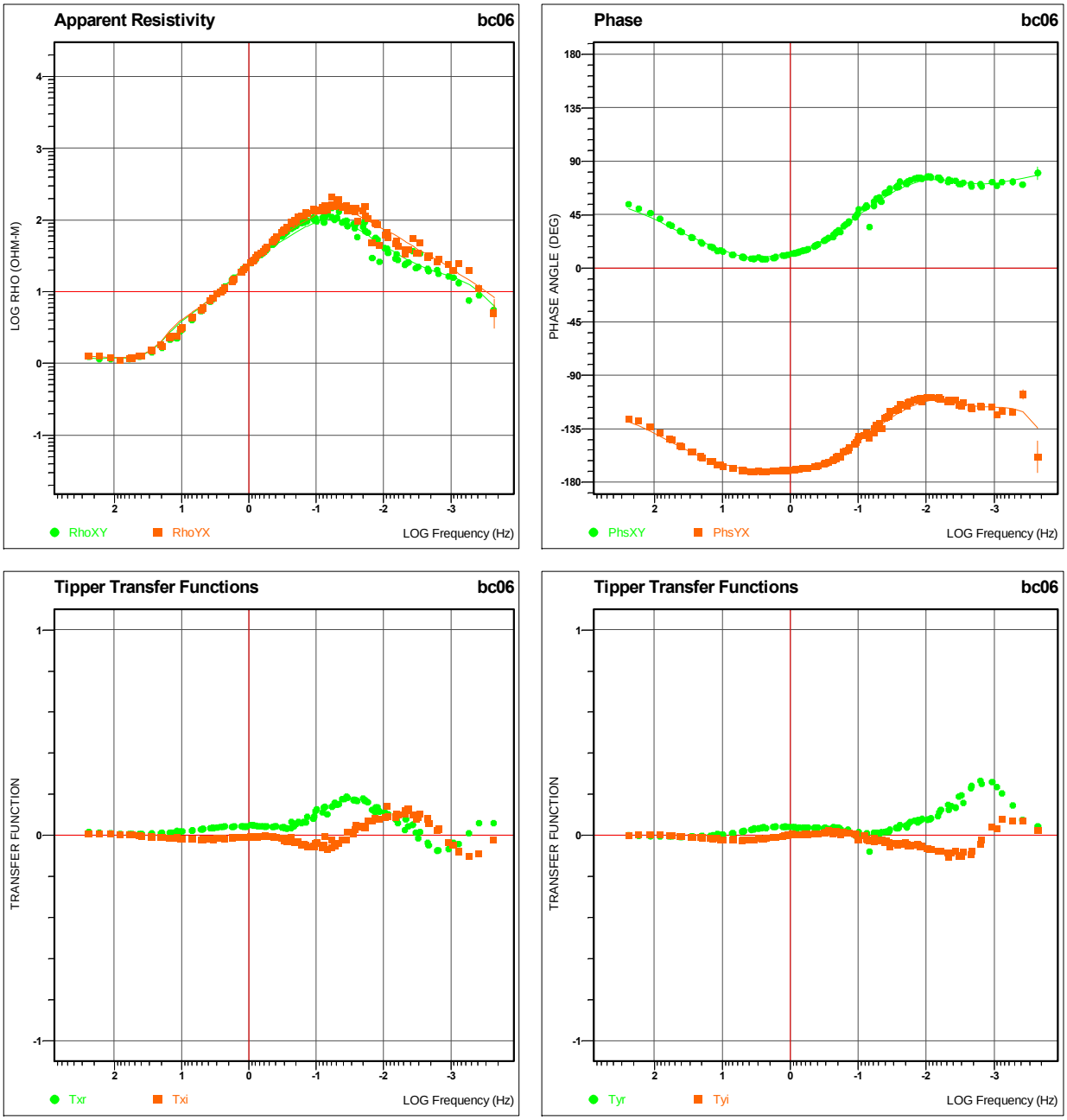


Reviewer Date: December 9, 2008

Comments:

- Good quality data

Site BC06 Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)



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

2.1.4 Site BC07

Name: BC07
Date: December 9, 2008

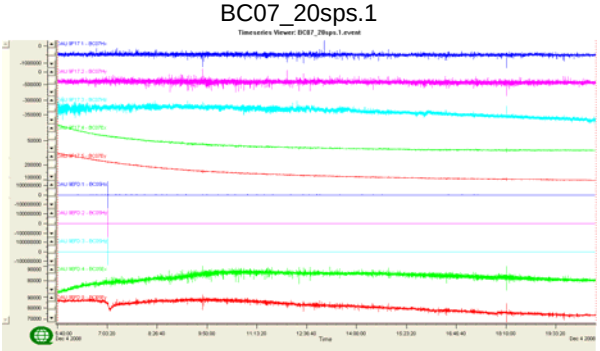
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 3days, 21h and 51min of data were acquired, with 3days 20h used for processing

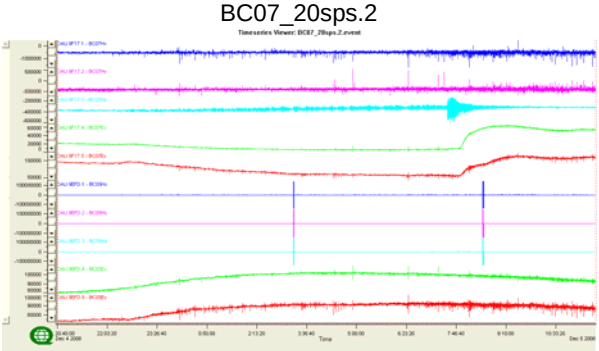
Events in Order	Time Series Notes
BC07_20sps.1 BC07_20sps.2 BC07_20sps.3 BC07_20sps.4 BC07_20sps.5 BC07_20sps.6	TS looks OK. Small noise in site Hx during BC07_20sps.4.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	110	110	110	1500	1450

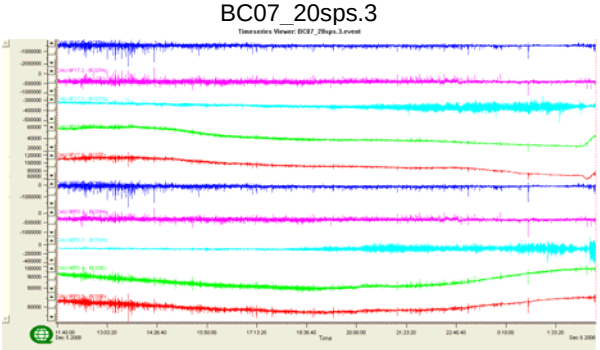
BC07_20sps.1



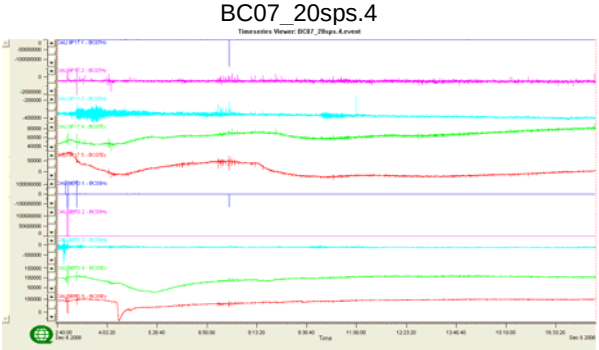
BC07_20sps.2



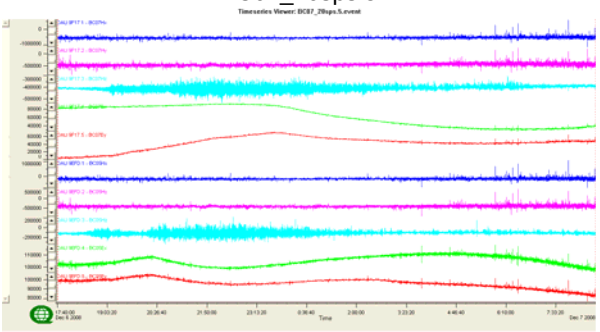
BC07_20sps.3



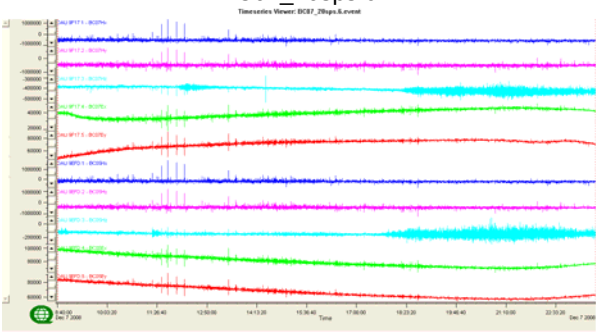
BC07_20sps.4



BC07_20sps.5



BC07_20sps.6

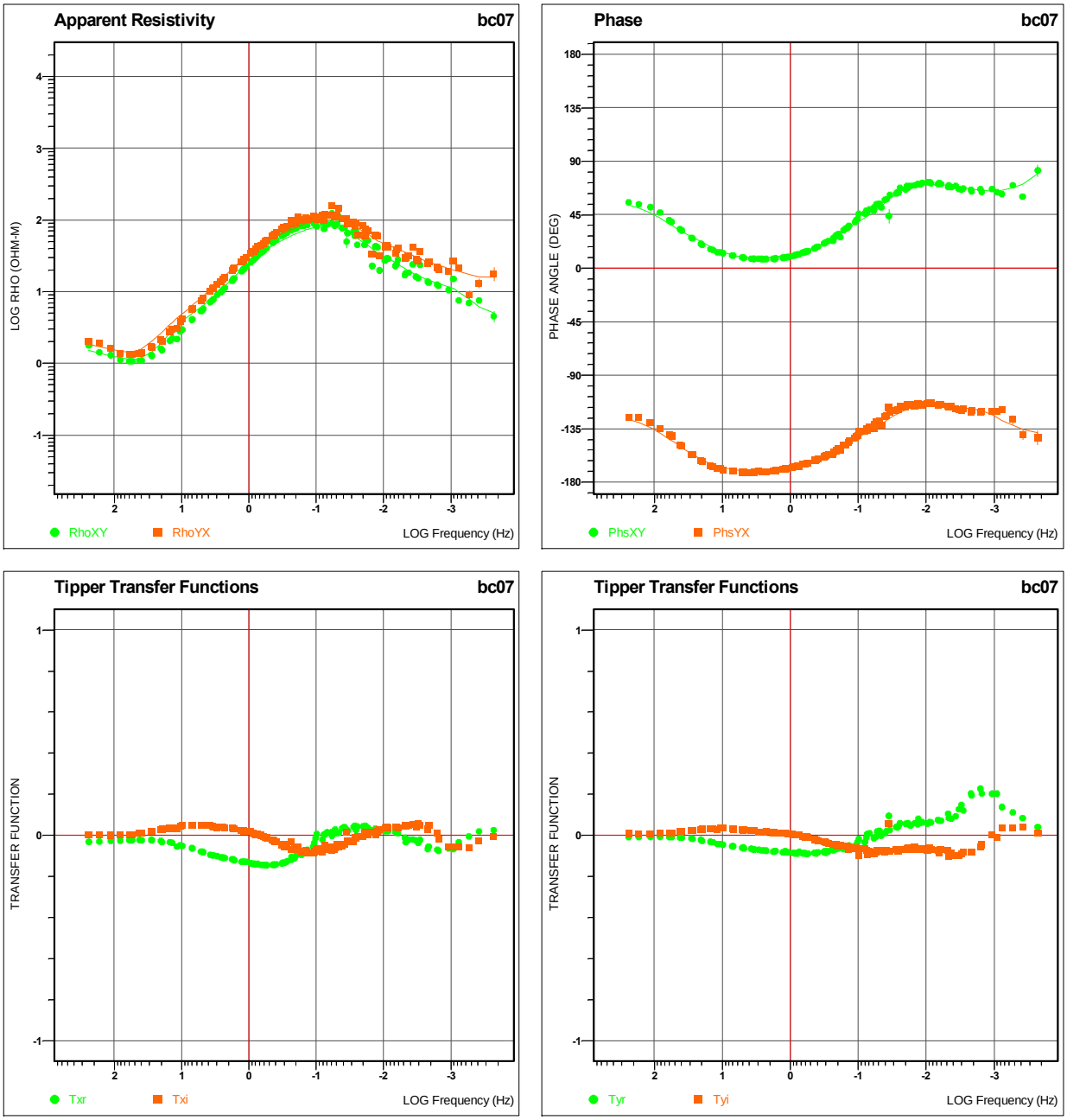


Reviewer Date: December 9, 2008

Comments:

- Good quality data

Site BC07 Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)



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