MT Processing Notes
Terrex Seismic Pty Ltd
Curnamona MT Project

1. Association/Logistical Notes

MT Acquisition: December 3-December 6, 2008
Document Date: December 7, 2008

QuickLay Version: 3.00.Alpha_33

Notes By: Joel Stockill

1.1.1 Curnamona Line – Sites read

Sites	Location UTM WGA84 Zone 54J		Magnetic Sensors			True Azimuth			
	Northing	Easting	Hx	Hy	Hz	Hx	Hy	Ex	Ey
BC23	6688178	379872	BF7-7001	BF7-7004	BF7-7006	360	270	360	270
BC24	6695141	373994	BF7-9104	BF7-9306	BF7-9307	360	270	360	90
BC25	6697870	363364	BF7-7007	BF7-9602	BF7-9802	180	270	360	270

Magnetic Declination: approx.7˚E

1.1.2 Notes

Site BC23:
Site was 200m East of a track in rubble/sandy terrain.

Site BC24:
Site 50m NE of a track in rubble/rocky terrain.

Site BC25:
Site was 50m North of a track in rocky terrain.

2. MT Processing

MT Events

Sample Rate 1000 sps

Site	Serial Event @ Site	Serial Event @ Remote Site	Intersecting Event	Reference Site	Notes
BC23	SEvBC23_20081203.0610	SEvBC24_20081203.0505	BC23 (06:10, 03/12/2008 to 03:57, 06/12/2008)	BC24	Created 17 4h subevents Created 5 13h50m subevents
BC24	SEvBC24_20081203.0505	SEvBC23_20081203.0610	BC24 (06:10, 03/12/2008 to 03:57, 06/12/2008)	BC23	Created 17 4h subevents Created 5 13h50m subevents
BC25	SEvBC25_20081203.0407	SEvBC23_20081203.0610	BC25 (06:10, 03/12/2008 to 03:57, 06/12/2008)	BC23	Created 17 4h subevents Created 5 13h50m subevents

2.1.1 Site BC23

Name: BC23
Date: December 7, 2008

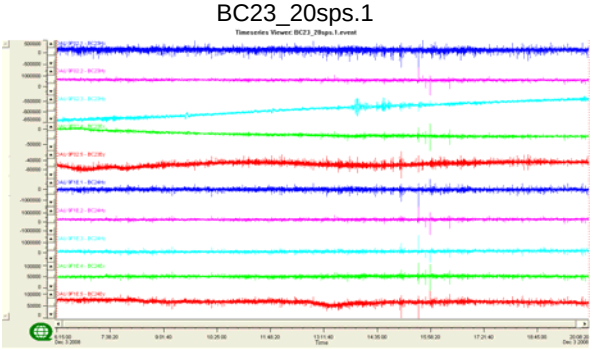
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 2days 21h and 47min of data were acquired and used for final processing.

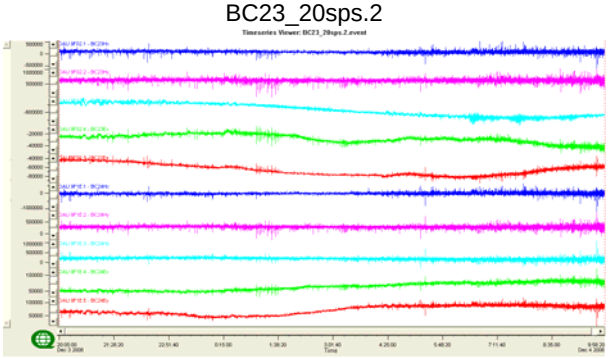
Events in Order	Time Series Notes
BC23_20sps.1 BC23_20sps.2 BC23_20sps.3 BC23_20sps.4 BC23_20sps.5	TS look OK.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	50	50	50	1500	1400

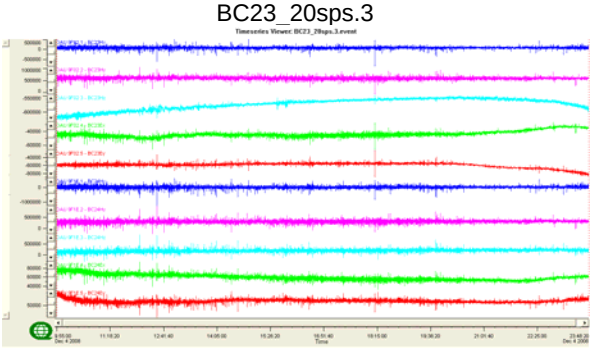
BC23_20sps.1



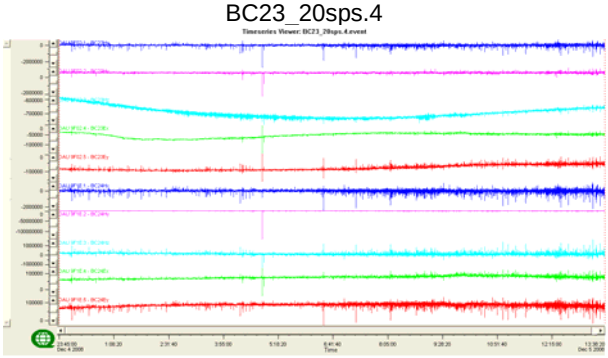
BC23_20sps.2



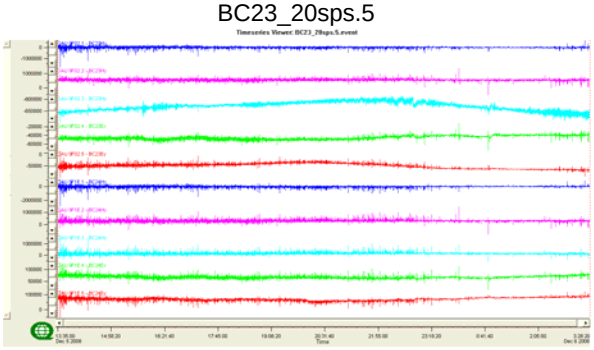
BC23_20sps.3



BC23_20sps.4



BC23_20sps.5

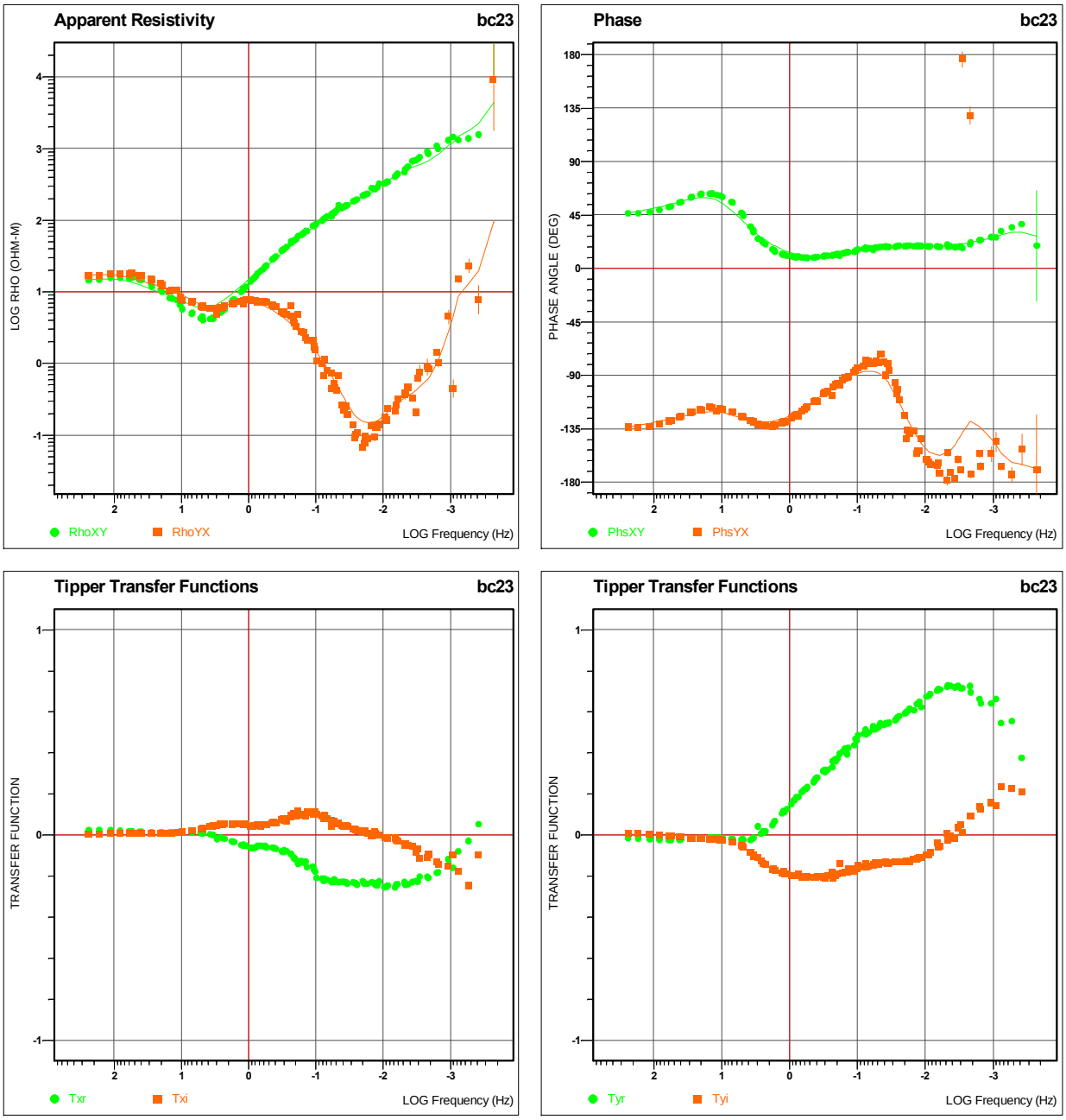


Reviewer Date: December 7, 2008

Comments:

- Good Quality data
- Noise in EyHx component below 0.01Hz
- Noise in all components below 0.001Hz
- Nature of plots dissimilar to rest of survey line, site will be repeated for comparison

Site BC23 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 BC24

Name: BC24
Date: December 7, 2008

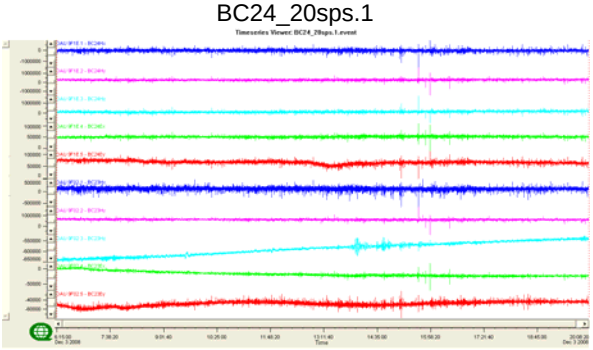
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 3days 49min of data were acquired, with 2days 21h 47min used for processing

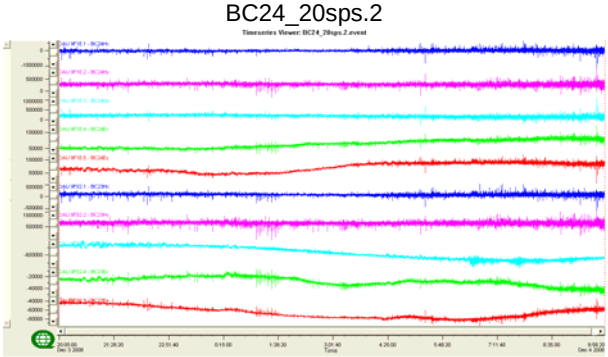
Events in Order	Time Series Notes
BC24_20sps.1 BC24_20sps.2 BC24_20sps.3 BC24_20sps.4 BC24_20sps.5	TS look ok. Strong Hz signal.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	50	50	50	650	550

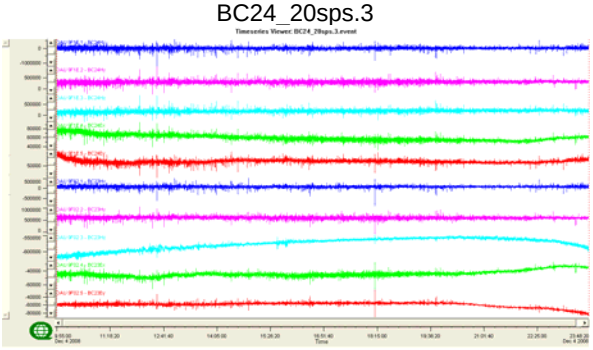
BC24_20sps.1



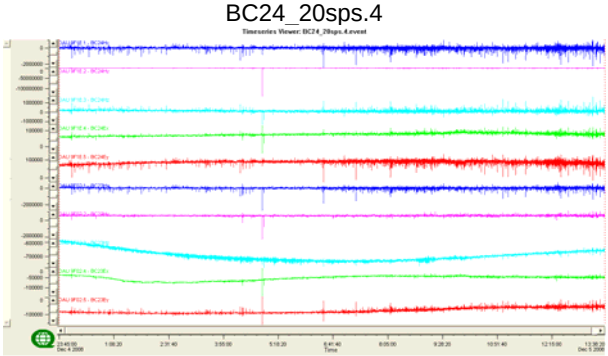
BC24_20sps.2



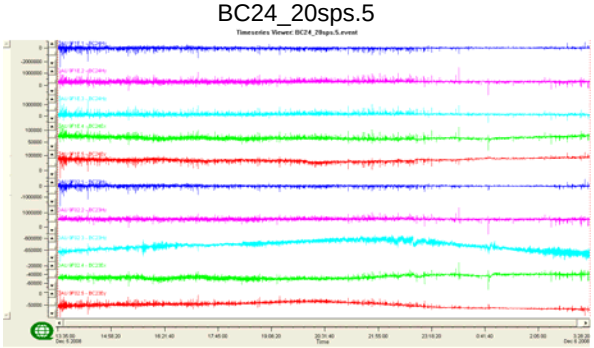
BC24_20sps.3



BC24_20sps.4



BC24_20sps.5

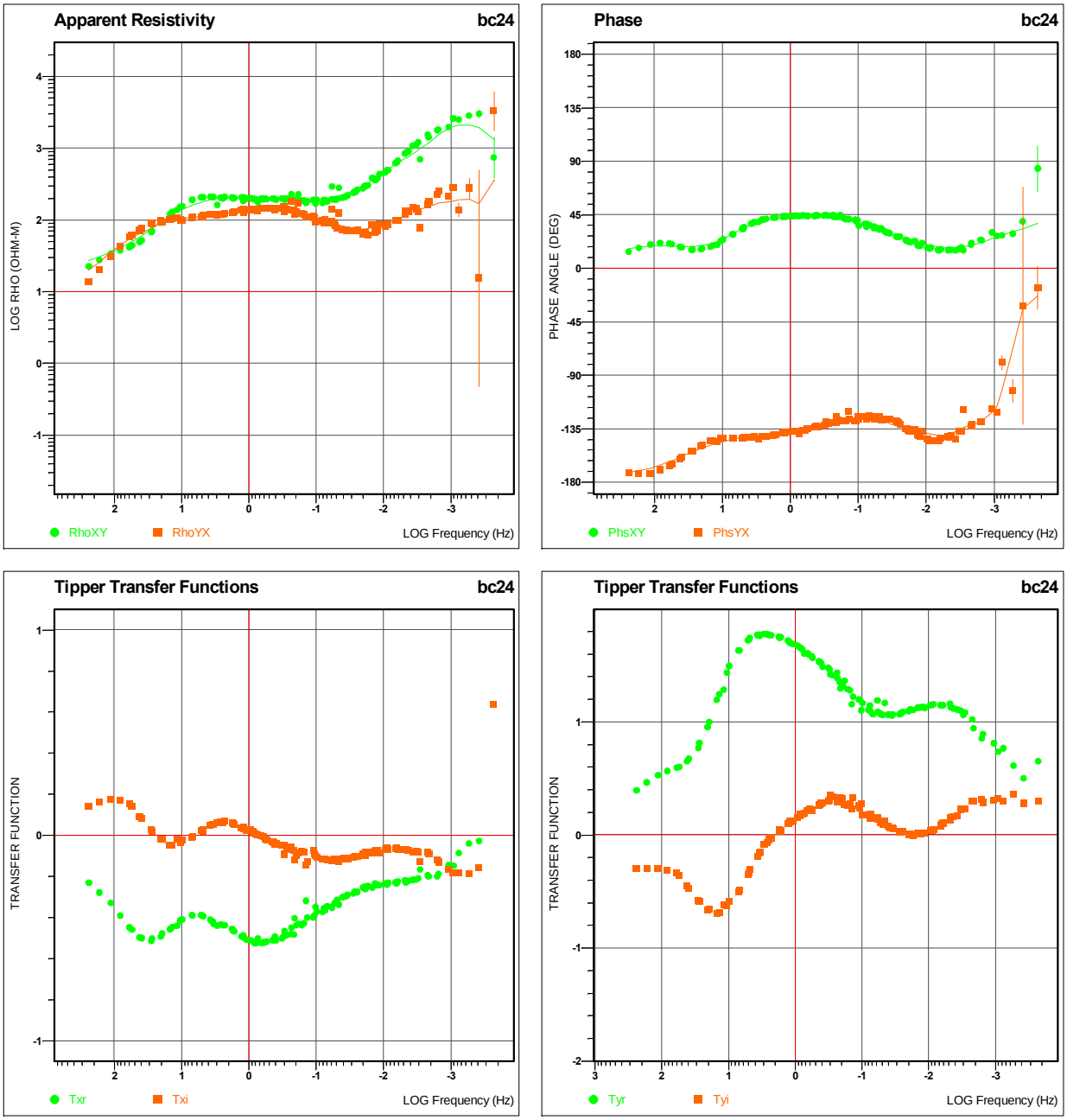


Reviewer Date: December 7, 2008

Comments:

- Good Quality data
- Some noise in all components below 0.001Hz
- Nature of plots dissimilar to rest of survey line, site will be repeated for comparison

Site BC24 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 BC25

Name: BC25
Date: December 7, 2008

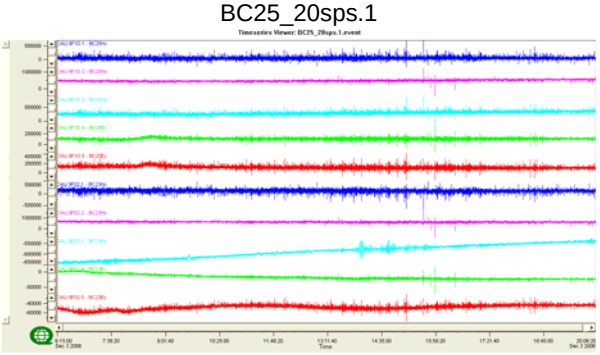
Setup Notes:

- All the events were scrubbed with spike rejection turned off
- Processed using Robust processing and Coherency sorting
- Total of 3days 46min of data were acquired, with 2days 21h 47min used for processing

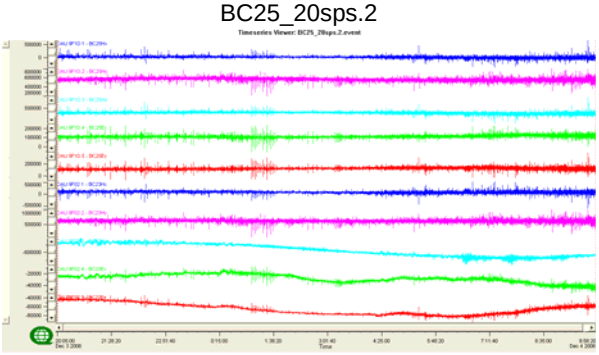
Events in Order	Time Series Notes
BC25_20sps.1 BC25_20sps.2 BC25_20sps.3 BC25_20sps.4 BC25_20sps.5	TS look ok. Strong Hz signal.

Sensor Impedance Ω	Hx	Hy	Hz	Ex	Ey
	50	50	50	1500	1500

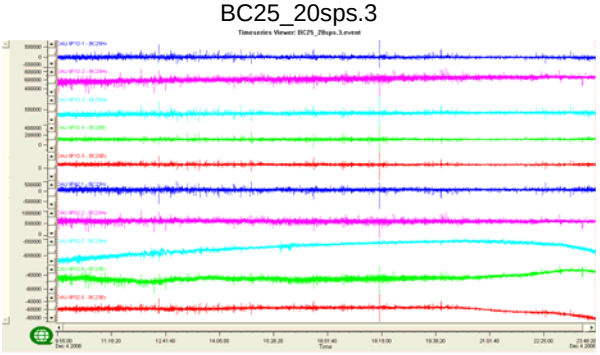
BC25_20sps.1



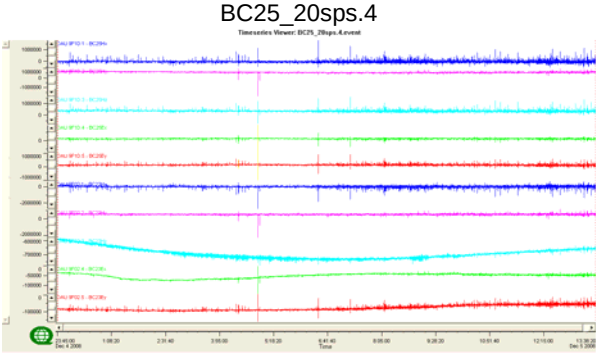
BC25_20sps.2



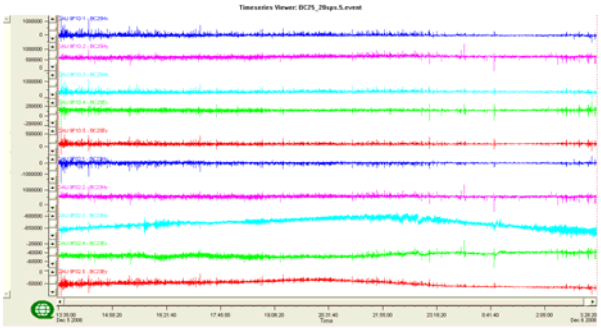
BC25_20sps.3



BC25_20sps.4



BC25_20sps.5

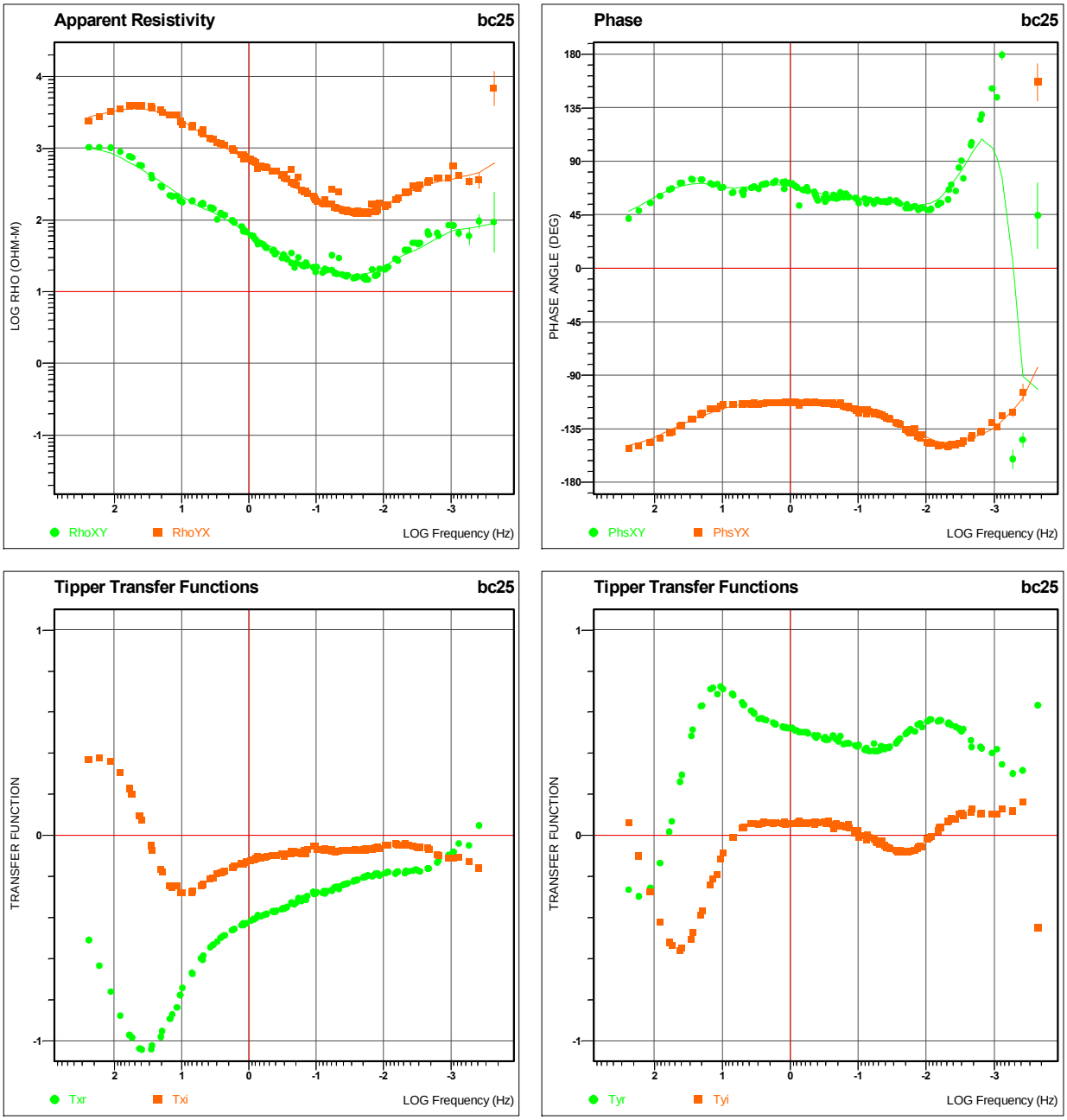


Reviewer Date: December 7, 2008

Comments:

- Good quality data
- Some noise in horizontal components below 0.001Hz
- Nature of plots dissimilar to rest of survey line, site will be repeated for comparison

Site BC25 Final Result Sounding Curves (Raw data)
App. Resistivity – Phase – Tipper Transfer Functions (Txr-Txi & Tyr-Tyi)



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