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1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA_WVS_1P) products, which are the available few hours after the acquisition, on the high rate browse (BP) products and on the Module Stepping (MS) product.

2 - Summary

2.1 - Instrument Unavailability

No unavailabilities during the reported period

Sub-system	Start	Stop	Planned
ASAR	YYYY-MM-DD hh:mm:ss	YYYY-MM-DD hh:mm:ss	---

2.2 - Browse Visual Inspection

No anomalies observed.

2.3 - Data Analysis

- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

3 - Module Stepping Mode

No anomalies observed.



Polarisation	Start Time
V	20030721 193134
H	20030721 192954

MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

MSM in H/H polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.82331	-22.5882	-8.09993
	stdev	0.00542621	0.0644145	0.00247681
10	mean	-6.89003	-19.3197	-8.09993
	stdev	0.0305422	0.0651241	0.00247681



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.87698	-22.5674	-8.10141
	stdev	0.0848064	0.0627011	0.00312585
10	mean	-6.97140	-19.3239	-8.10141
	stdev	0.408513	0.0615741	0.00312585



4.3 - cal pulses monitoring (all rows)



5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000475619
	stdev	3.00498e-07
MEAN Q	mean	0.000313667
	stdev	3.13144e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.114069
	stdev	0.00158955
STDEV Q	mean	0.114167
	stdev	0.00162067



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed Doppler evolution.

Doppler analysis performed over the last 60 days

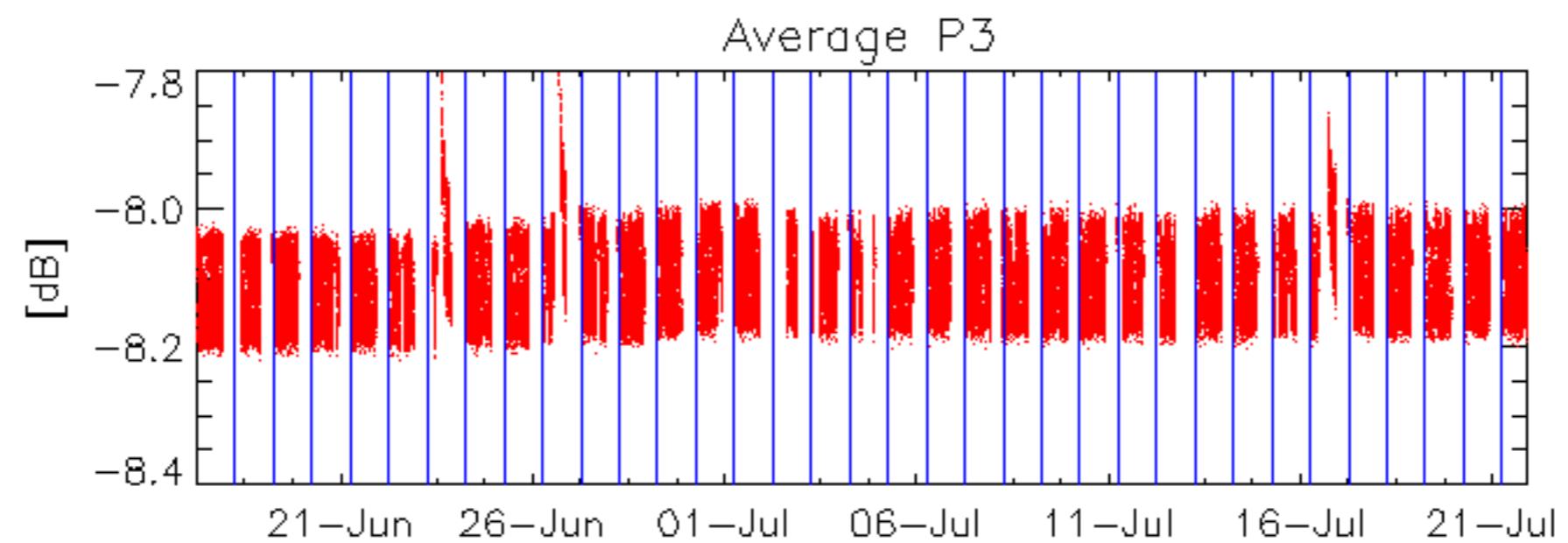
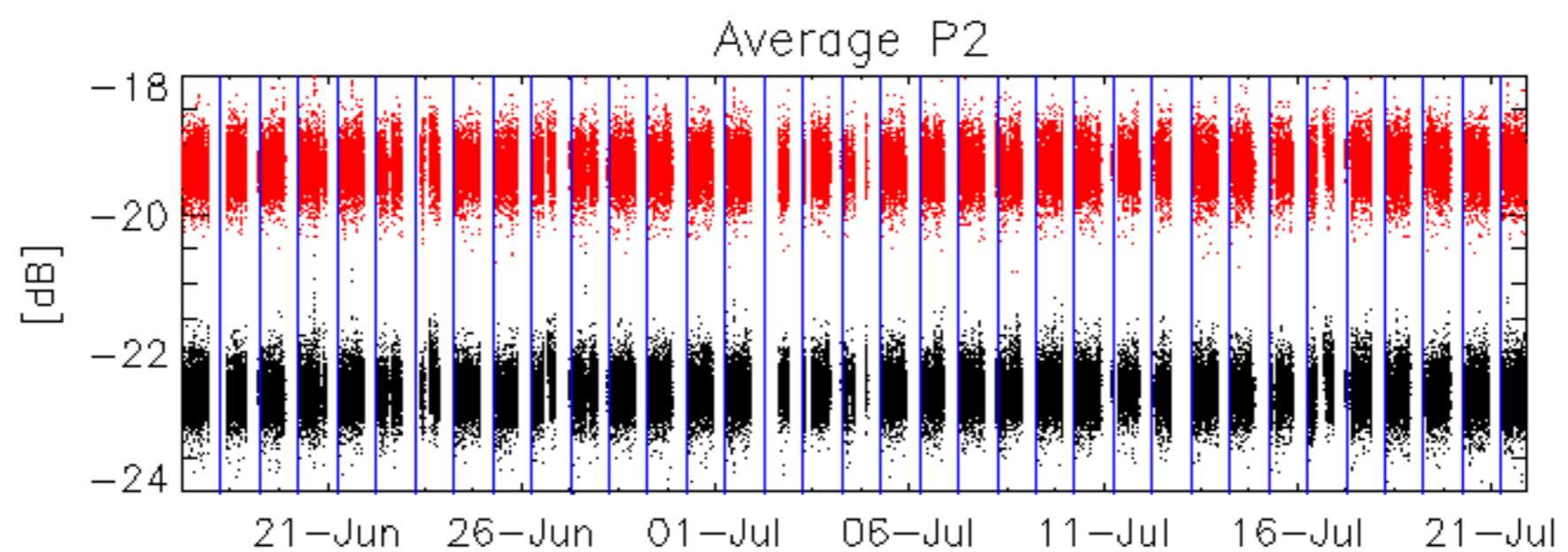
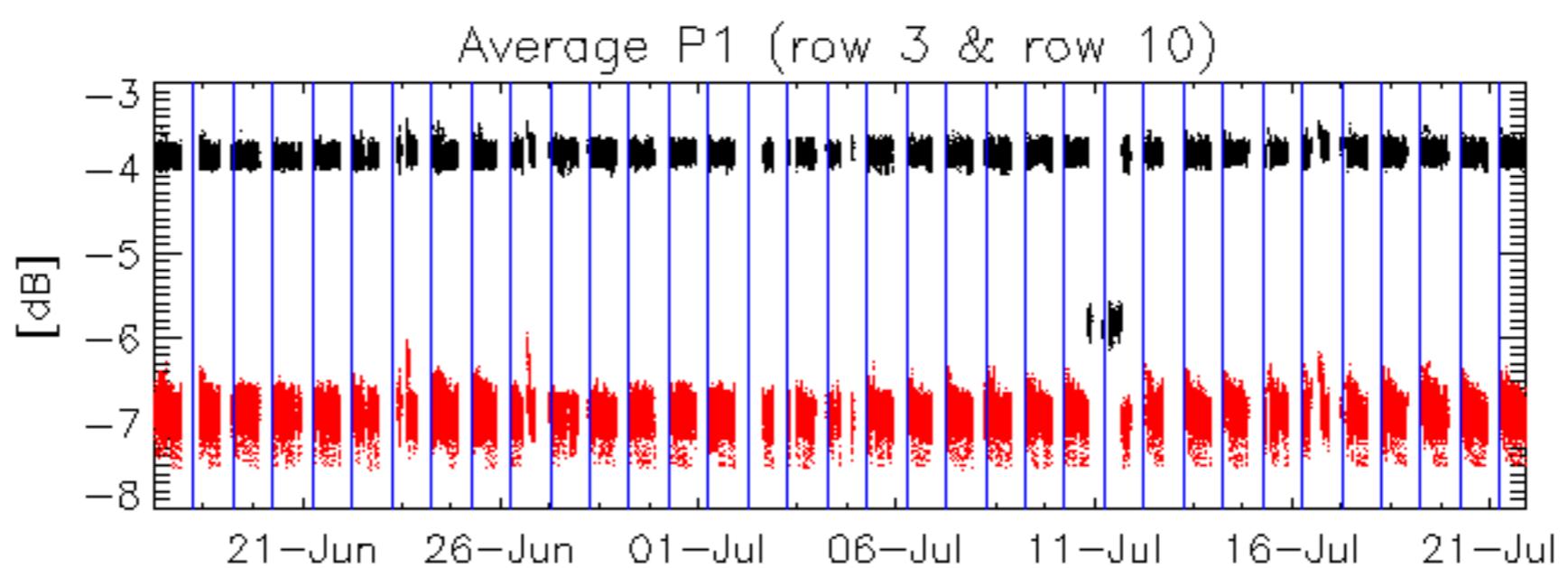
6.1 - Unbiased Doppler Error

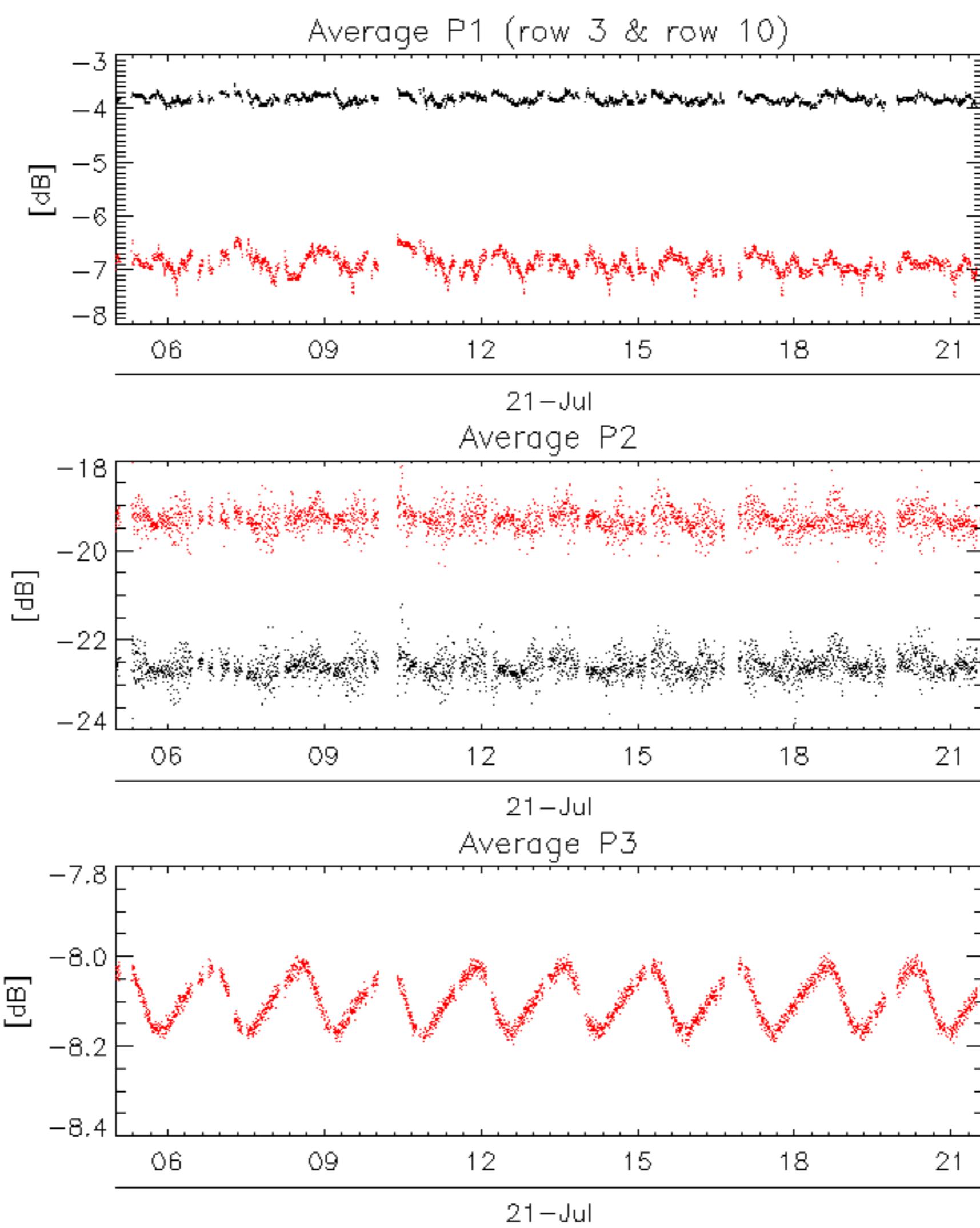
Evolution of unbiased Doppler error (Real - Expected)
Ascending
Descending

6.2 - Absolute Doppler

Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX



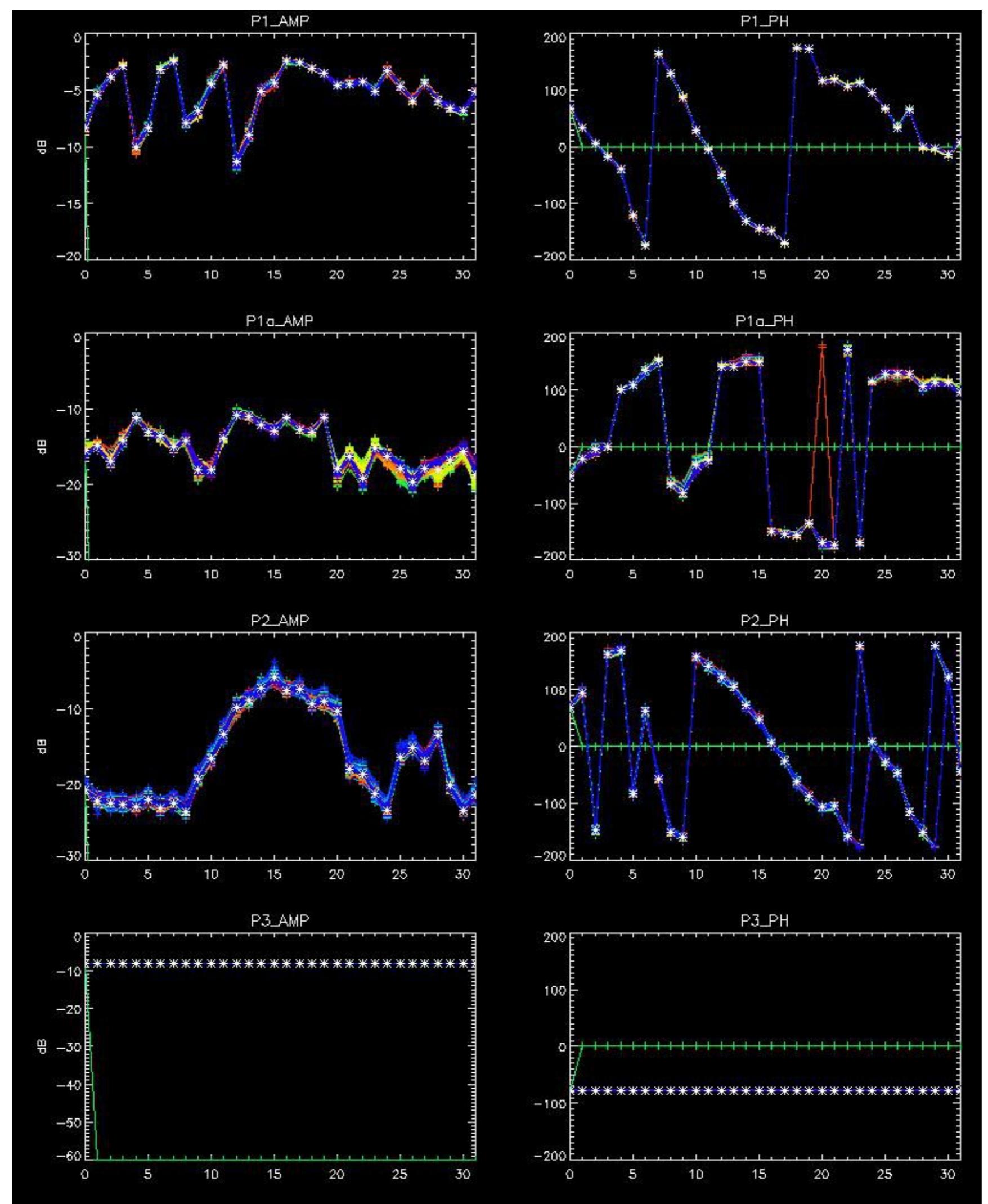


No anomalies observed.



No anomalies observed.



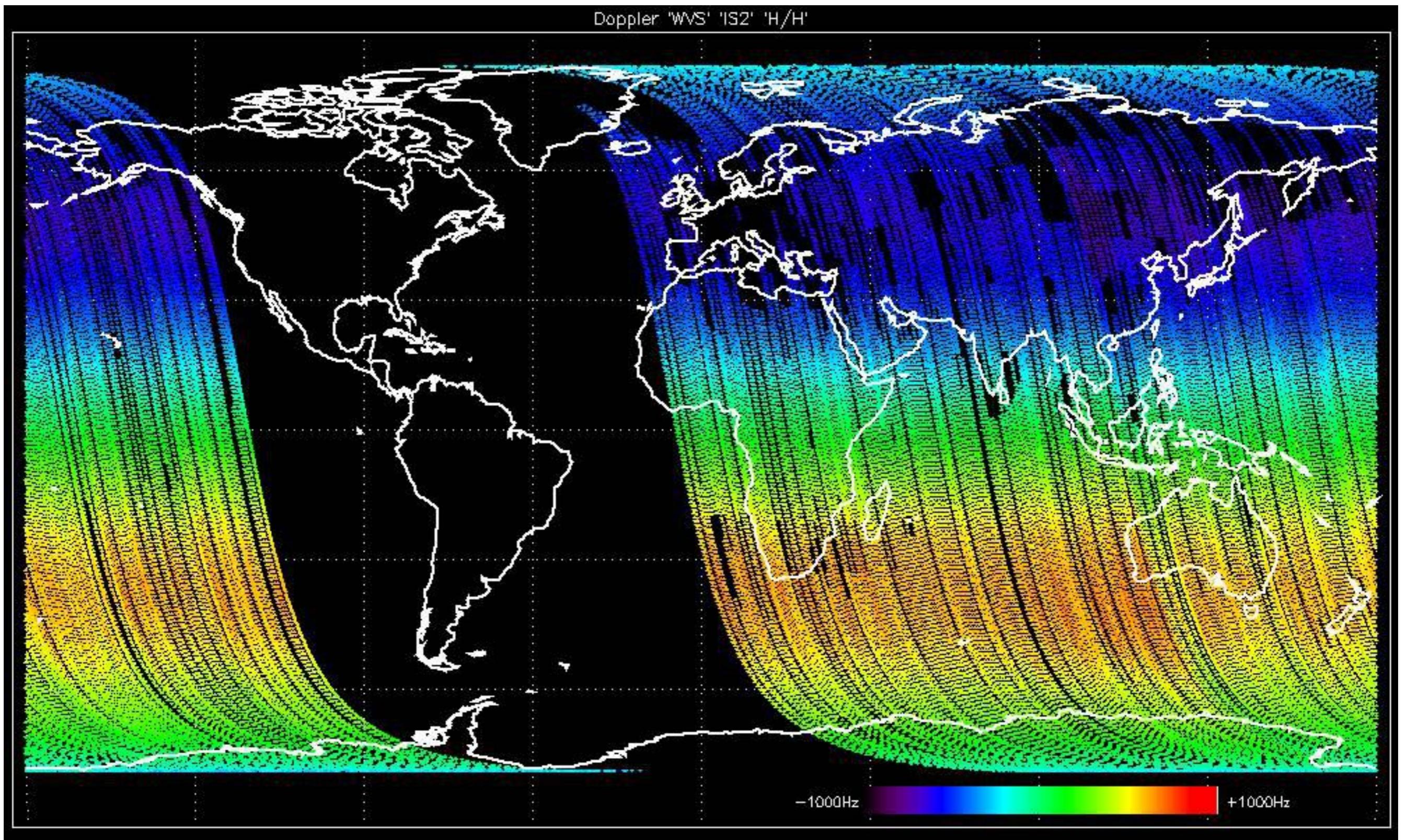


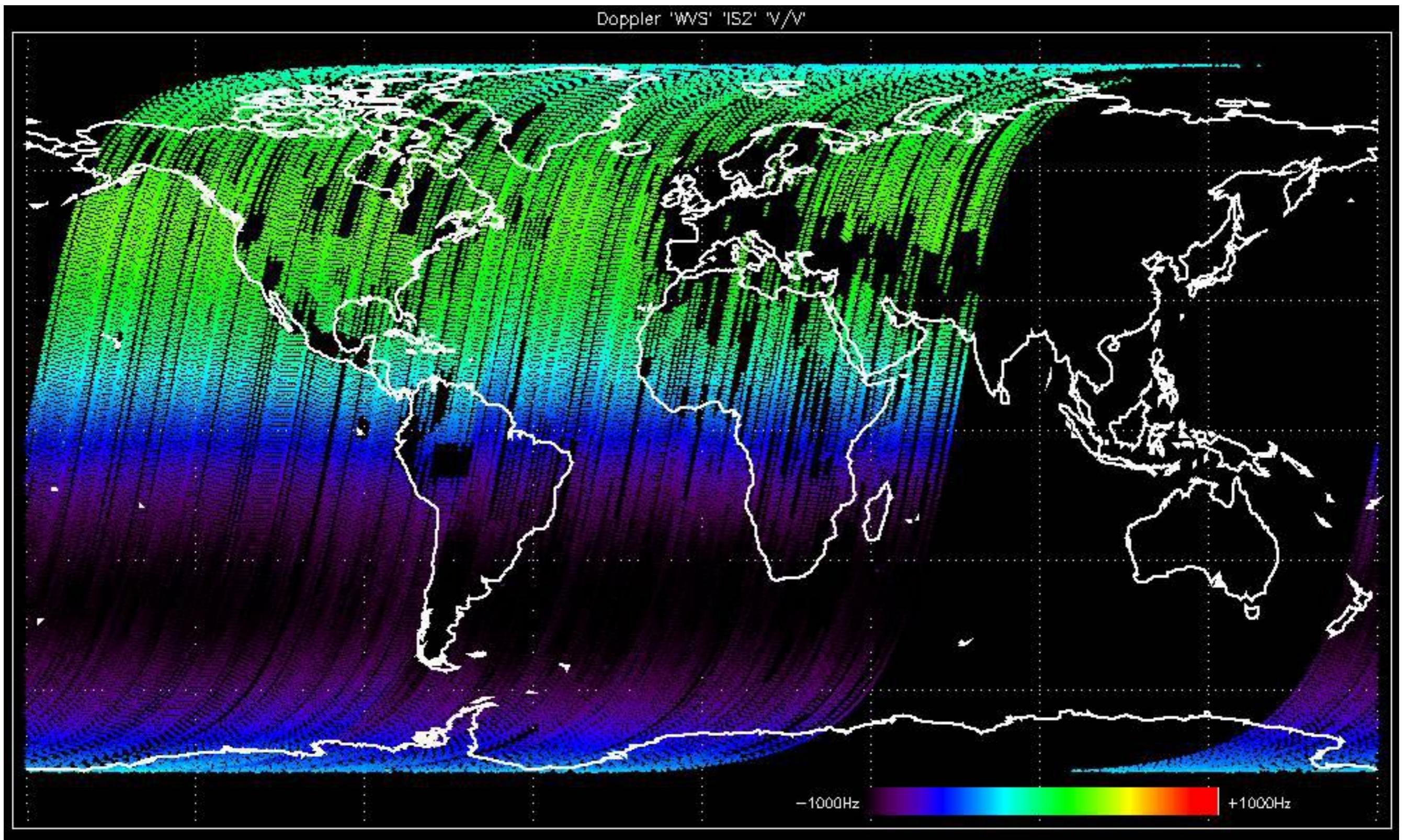
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

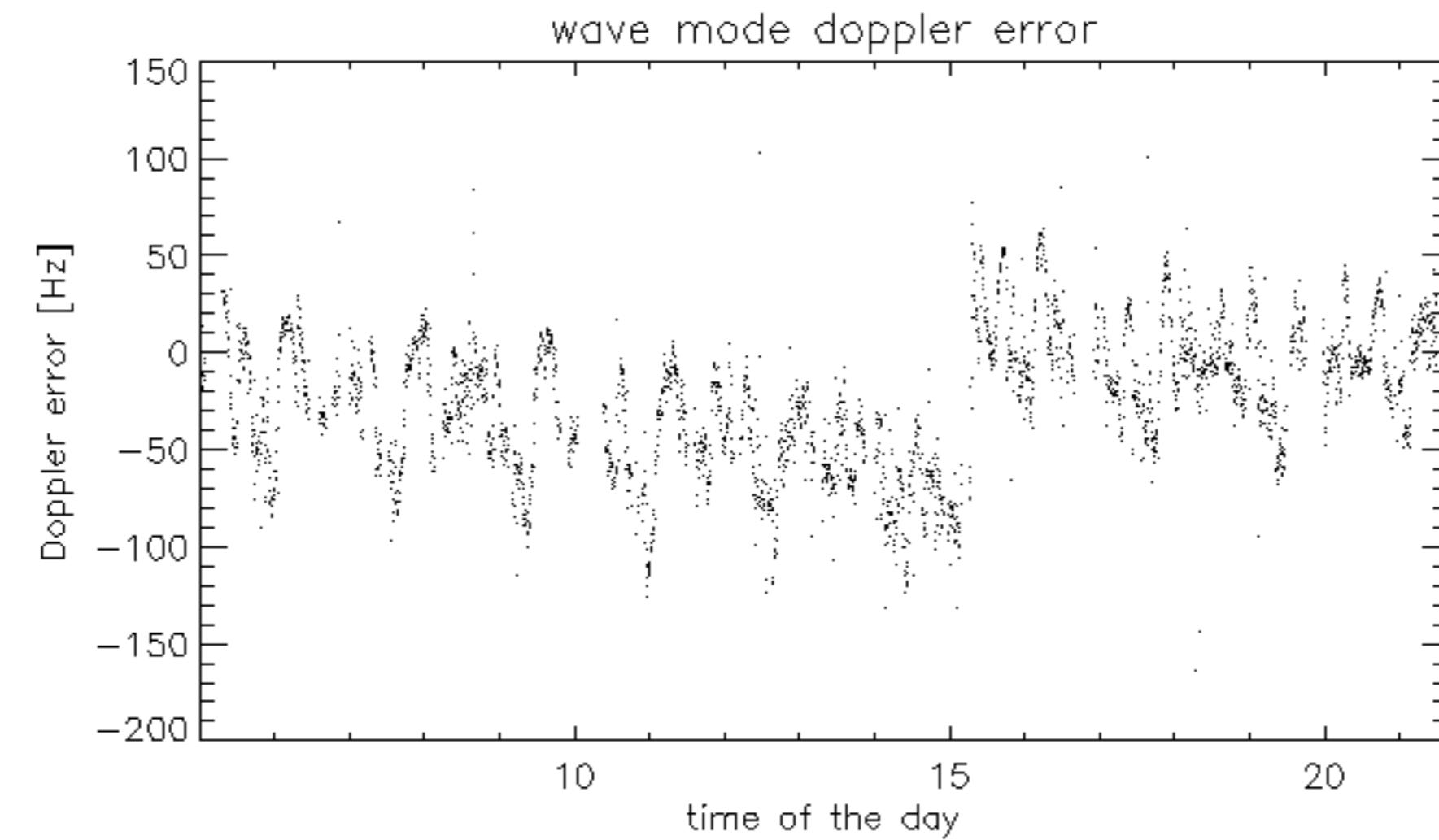
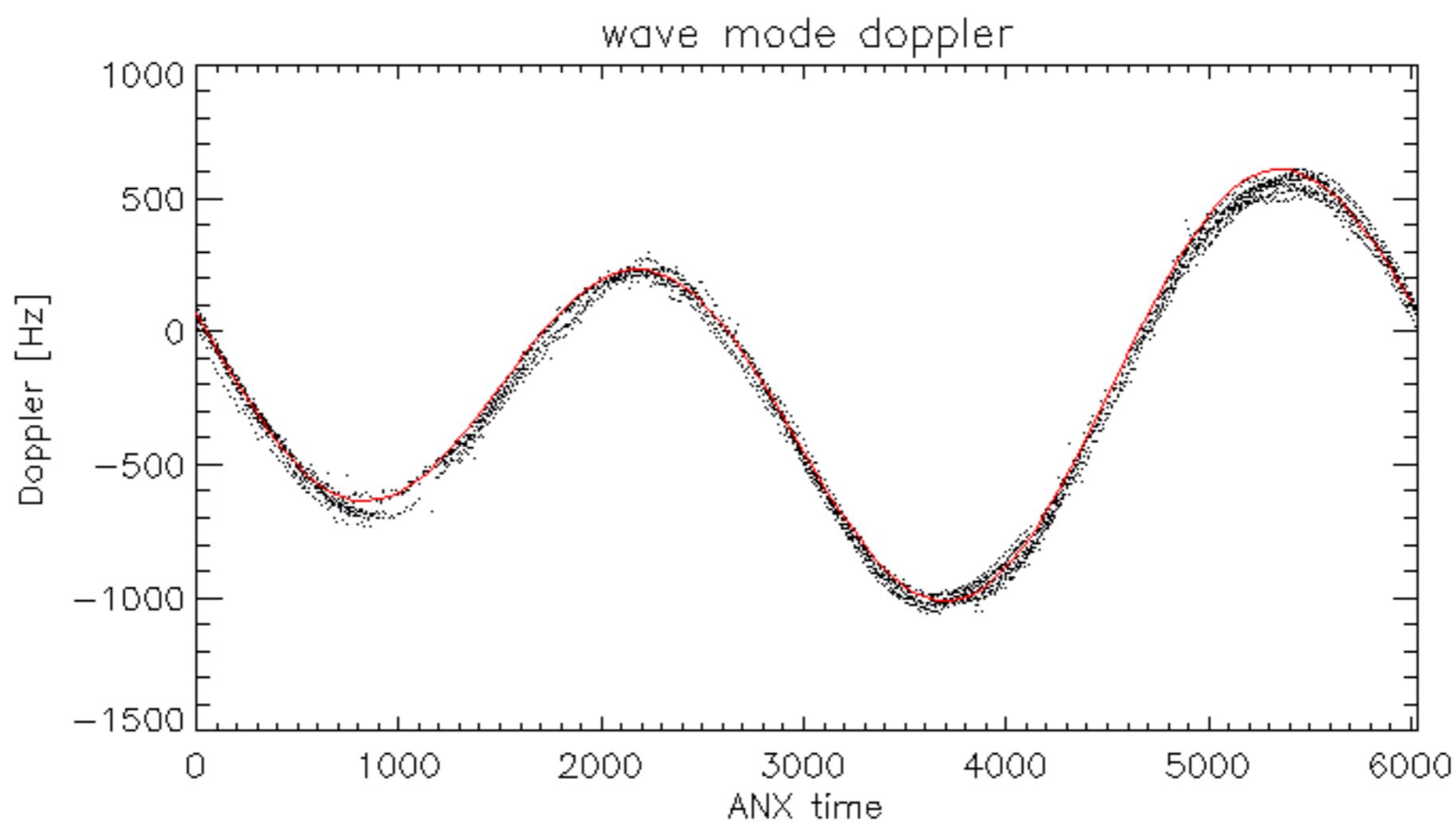


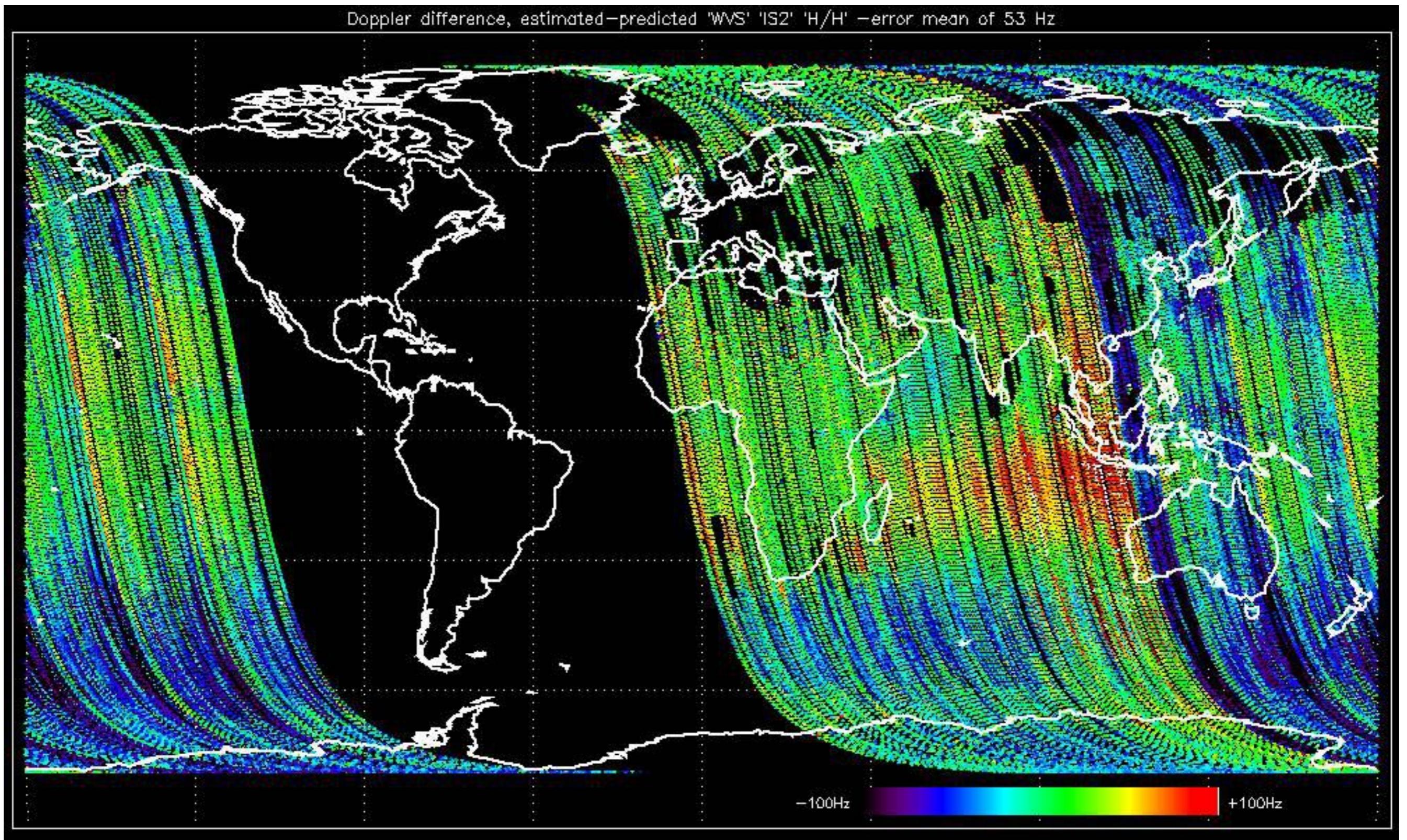
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

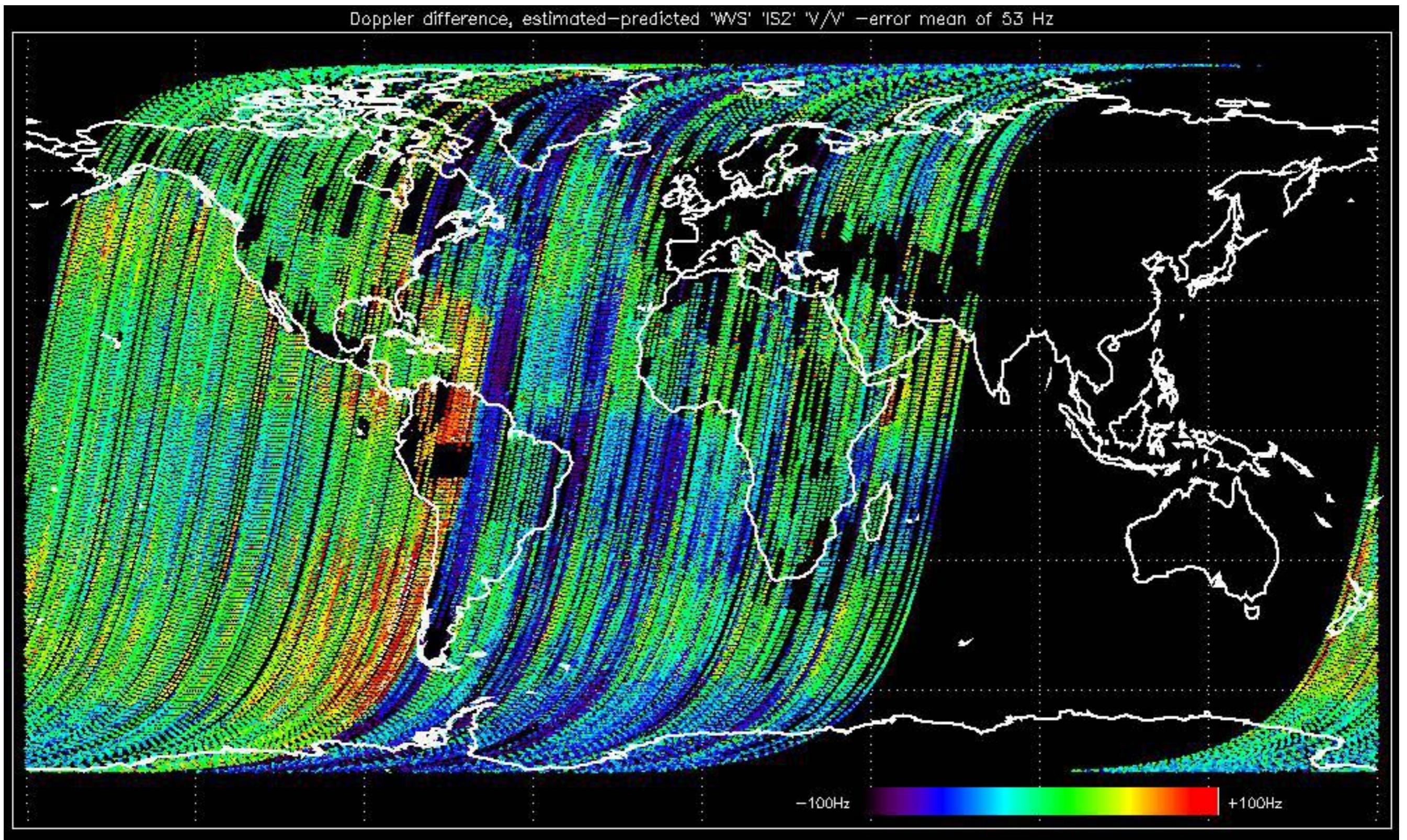












No anomalies observed.



No anomalies observed.



Reference: 2001-02-09 13:50:42 H RxGain

Test : 2003-07-21 19:29:54 H

Reference: 2003-06-12 14:08:52 H RxGain

Test : 2003-07-21 19:29:54 H

Reference: 2001-02-09 14:08:23 V RxGain

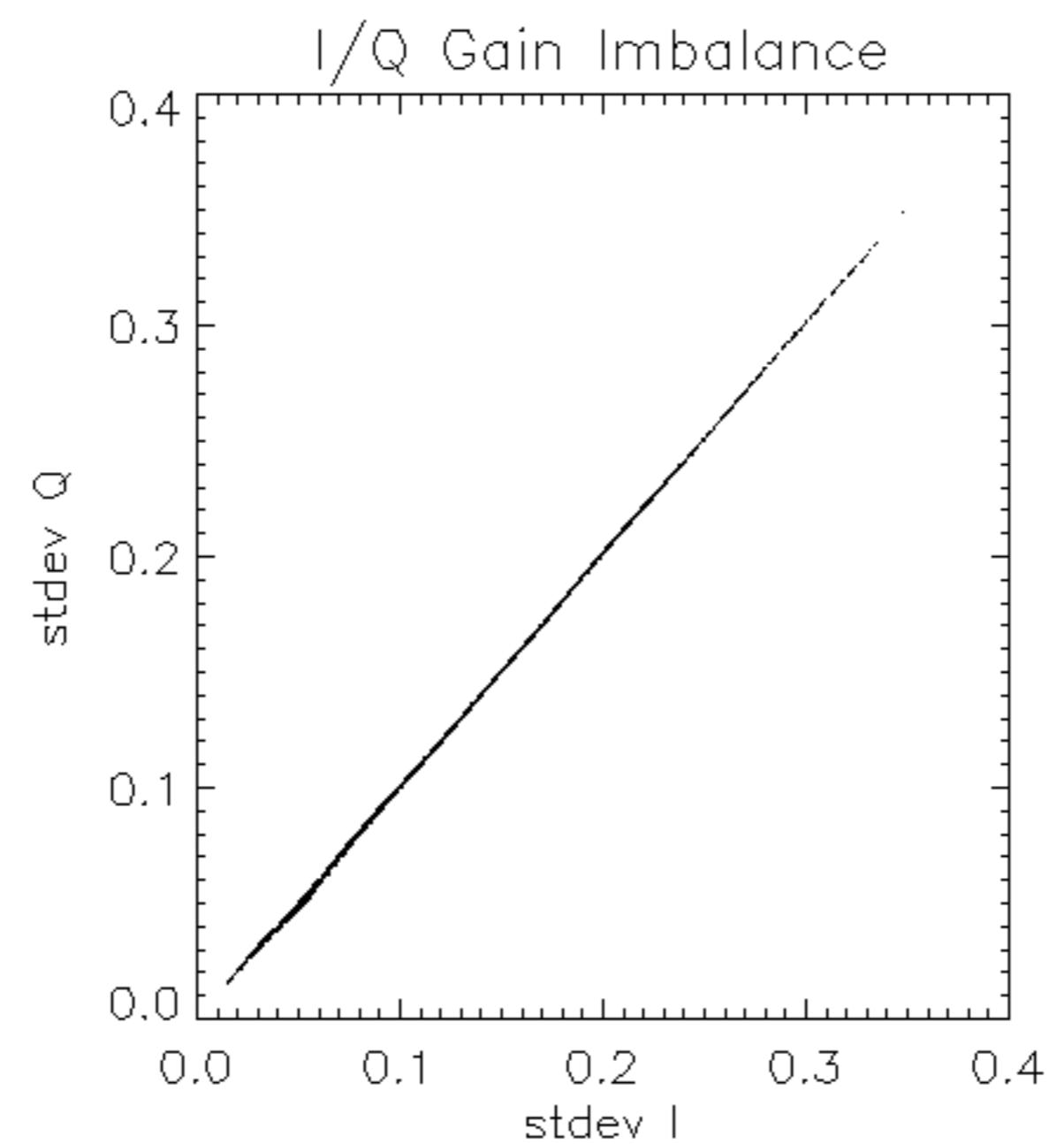
Test : 2003-07-21 19:31:34 V

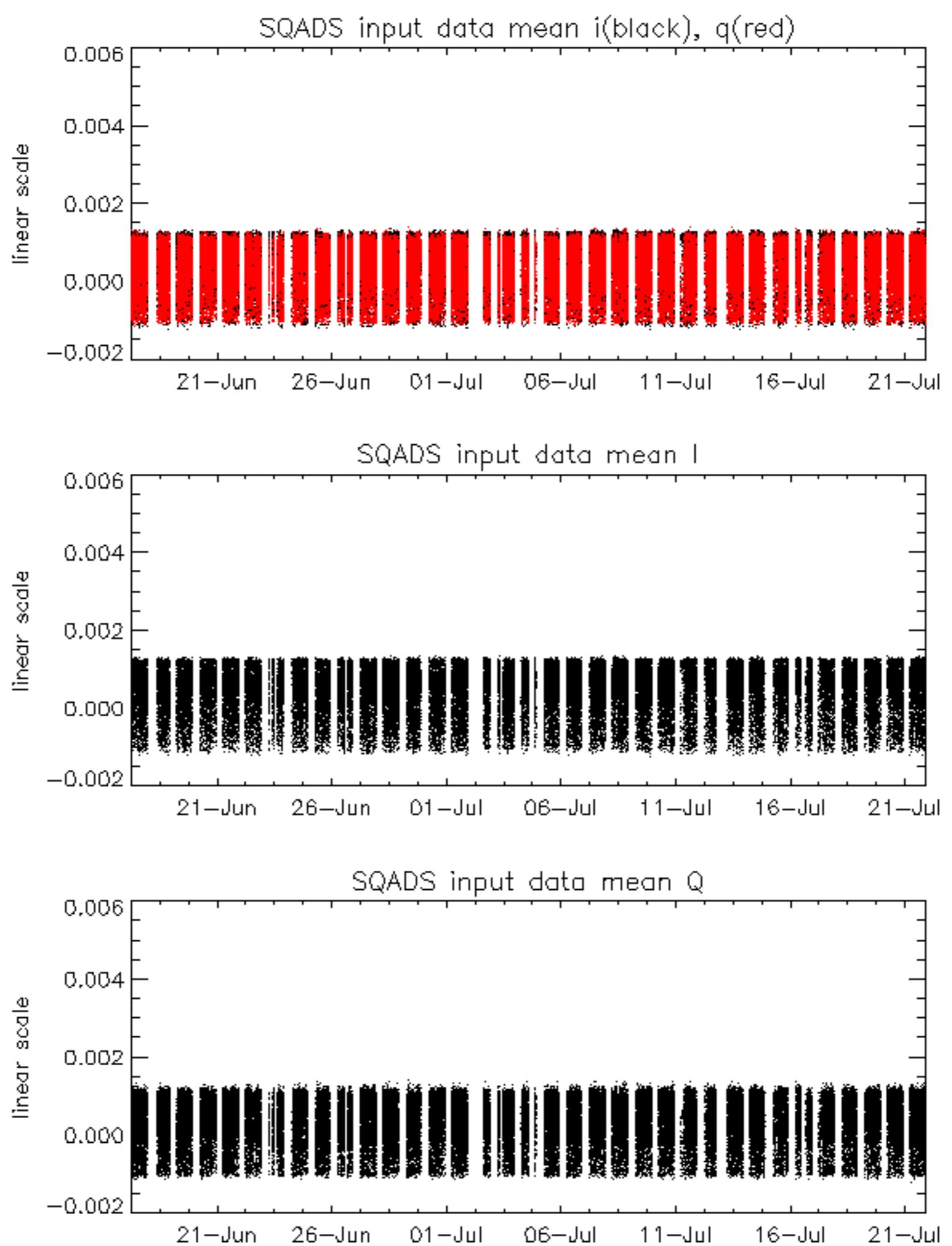
RxGain									
Reference: 2003-06-12 14:10:32 V									
Test : 2003-07-21 19:31:34 V									
A1	A3	B1	B3	C1	C3	D1	D3	E1	E3
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32								
A2	A4	B2	B4	C2	C4	D2	D4	E2	E4

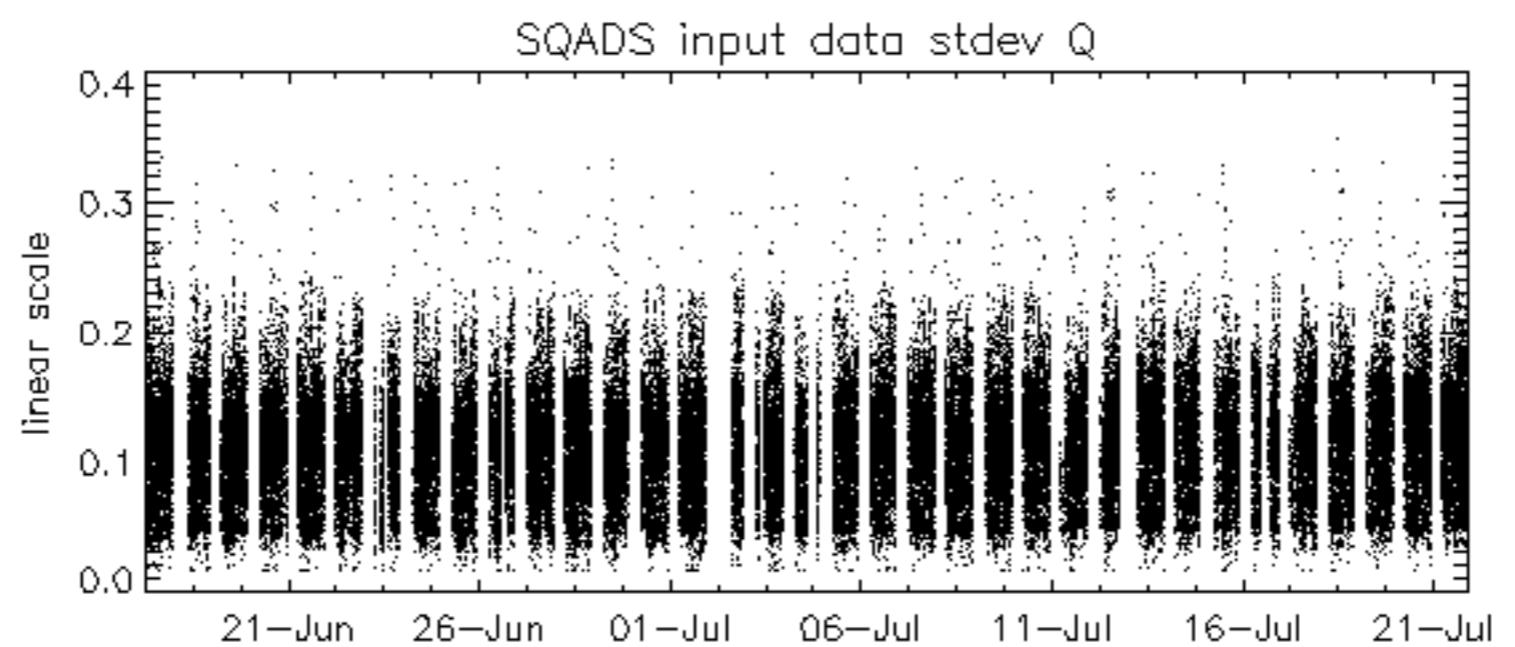
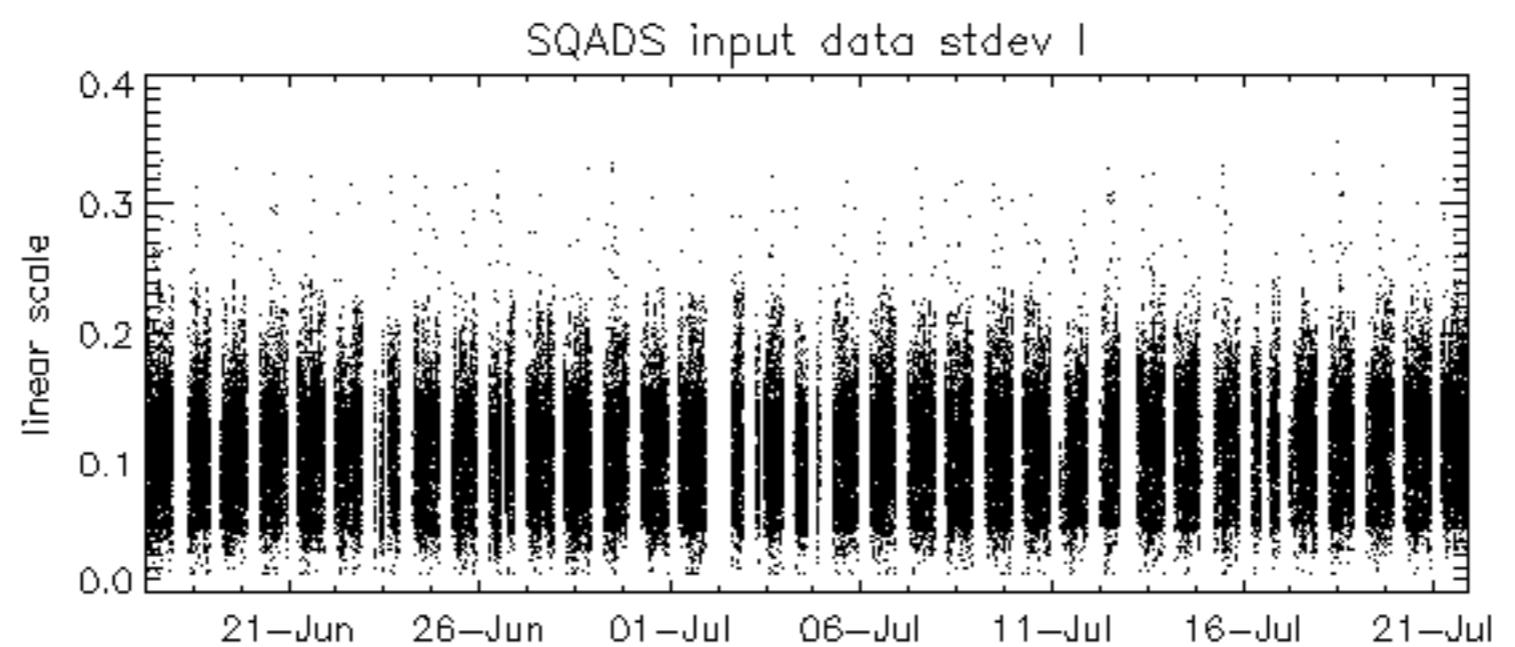
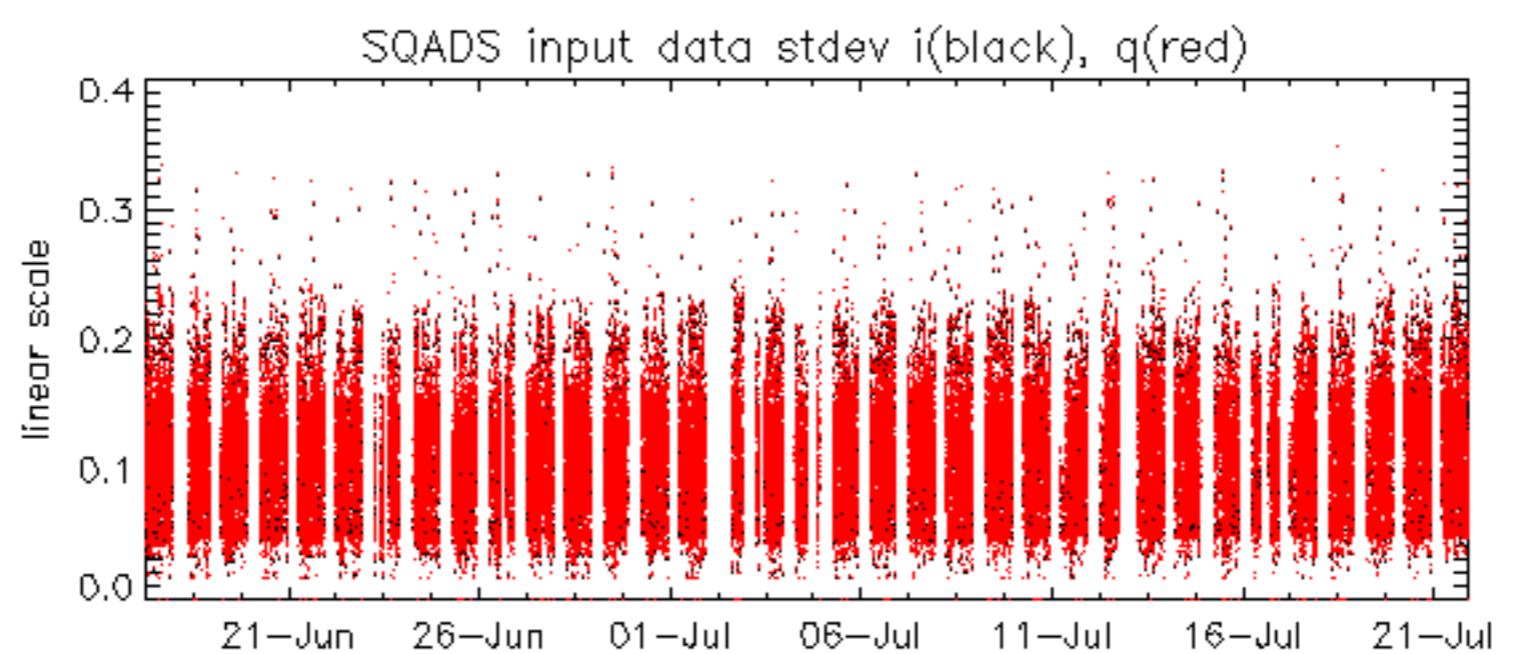
Reference: 2001-02-09 14:08:23 V RxPhase

Test : 2003-07-21 19:31:34 V

RxPhase									
Reference: 2003-06-12 14:10:32 V									
Test : 2003-07-21 19:31:34 V									
							1		
							2		
							3		
							4		
							5		
							6		
							7		
A1	A3	B1	B3	C1	C3	D1	D3	E1	E3
							8		
							9		
							10		
							11		
							12		
							13		
							14		
							15		
							16		
							17		
							18		
							19		
							20		
							21		
							22		
A2	A4	B2	B4	C2	C4	D2	D4	E2	E4
							23		
							24		
							25		
							26		
							27		
							28		
							29		
							30		
							31		
							32		







Reference:	2001-02-09 13:50:42 H	TxGain							
Test	: 2003-07-21 19:29:54 H								
A1	A3	B1	B3	C1	C3	D1	D3	E1	E3
A2	A4	B2	B4	C2	C4	D2	D4	E2	E4

Reference: 2003-06-12 14:08:52 H

Test : 2003-07-21 19:29:54 H

Reference: 2001-02-09 14:08:23 V TxGain

Test : 2003-07-21 19:31:34 V

Reference: 2003-06-12 14:10:32 V

Test : 2003-07-21 19:31:34 V

Reference: 2001-02-09 13:50:42 H TxPhase

Test : 2003-07-21 19:29:54 H

Reference: 2003-06-12 14:08:52 H TxPhase

Test : 2003-07-21 19:29:54 H

A1 A3 B1 B3 C1 C3 D1 D3 E1 E5

A2 A4 B2 B4 C2 C4 D2 D4 E2 E4

1
2
3
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32

Reference:	2003-06-12 14:10:32 V	TxPhase
Test	: 2003-07-21 19:31:34 V	
A1	A3	B1
B3	C1	C3
D1	D3	E1
E3		
A2	A4	B2
B4	C2	C4
D2	D4	E2
E4		

No unavailabilities during the reported period

