

REPORT OF 031008

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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 on available browse products.

2.3 - Data Analysis

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

3 - Module Stepping Mode

Two MS products (V and H polarization) available on 07-OCT-2003:

- ASA_MS__OPNPDK20031007_202026_000000152020_00314_08384_0116.N1
- ASA_MS__OPNPDK20031007_201846_000000152020_00314_08384_0115.N1

No anomalies observed.

The drift in phase for TR module 3 on Tile B3 has decreased to a stable configuration as shown in the figure below.



Polarisation	Start Time
V	20031007 202026
H	20031007 201846

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 from wave mode data analysis.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79487	-22.5448	-8.13832
	stdev	0.00506176	0.0632813	0.00233531
10	mean	-6.89467	-19.3183	-8.13832
	stdev	0.0247057	0.0579399	0.00233531



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79892	-22.5268	-8.12836
	stdev	0.00560457	0.0629319	0.00255413
10	mean	-6.89590	-19.3158	-8.12836
	stdev	0.0272934	0.0610235	0.00255413



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	0.000362735
	stdev	3.60414e-07
MEAN Q	mean	0.000299942

stdev 3.23113e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115334
	stdev	0.00142709
STDEV Q	mean	0.115574
	stdev	0.00144508



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

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

6.1 - Unbiased Doppler Error

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

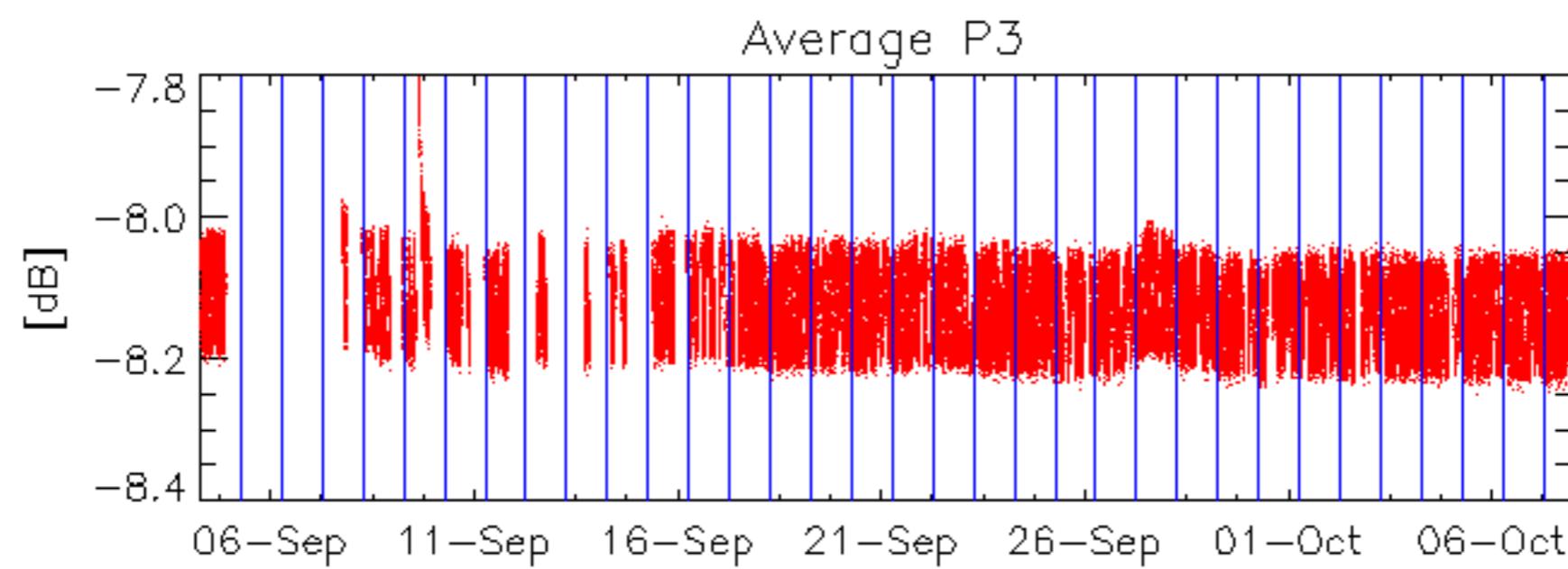
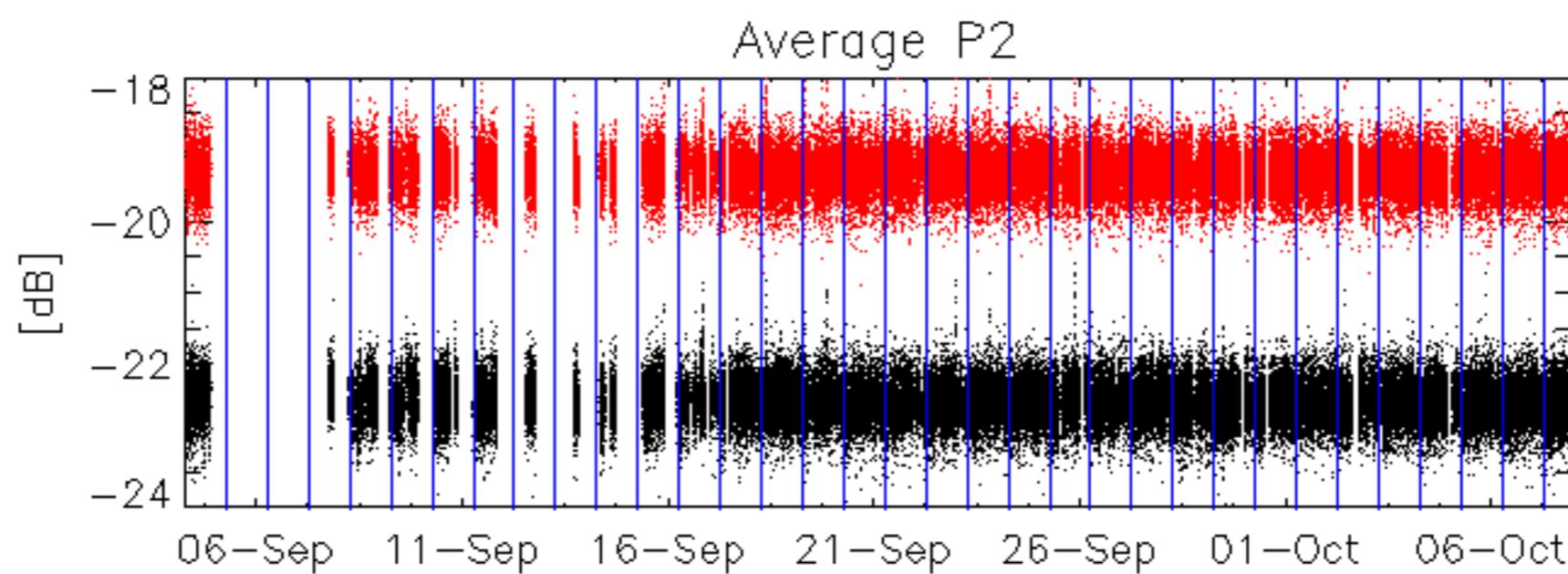
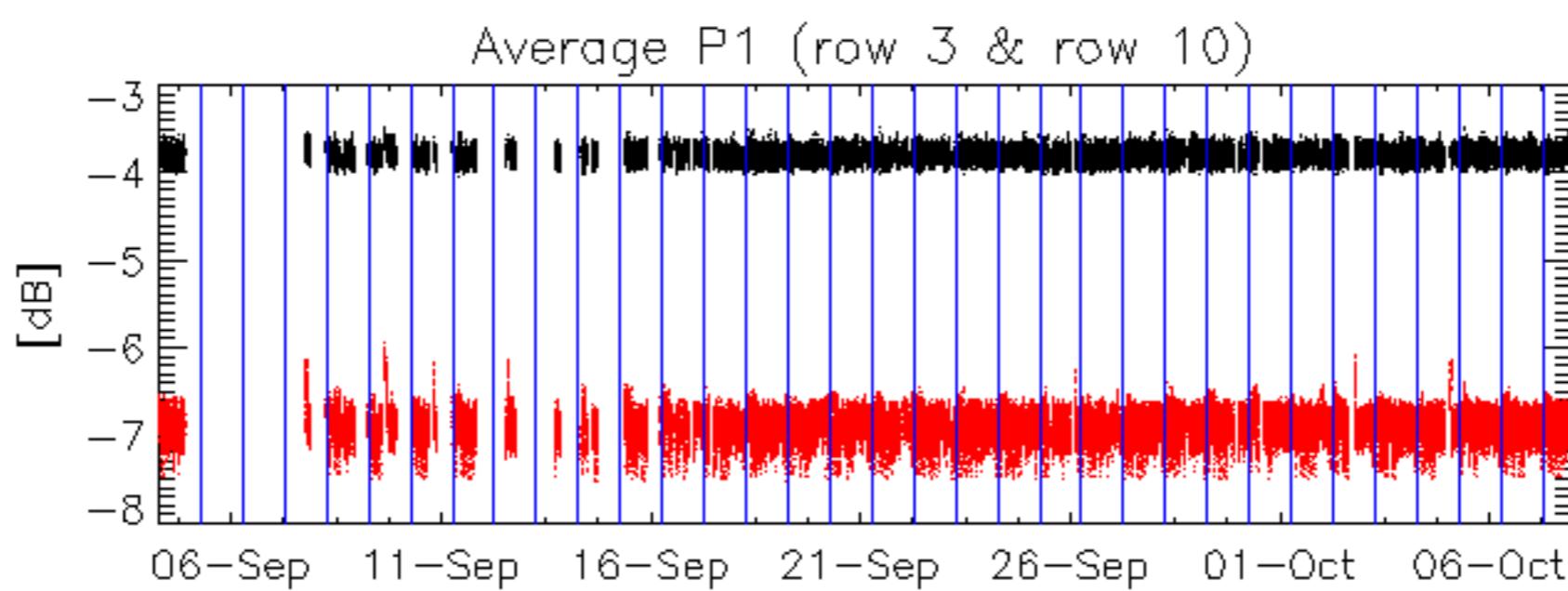
6.2 - Absolute Doppler

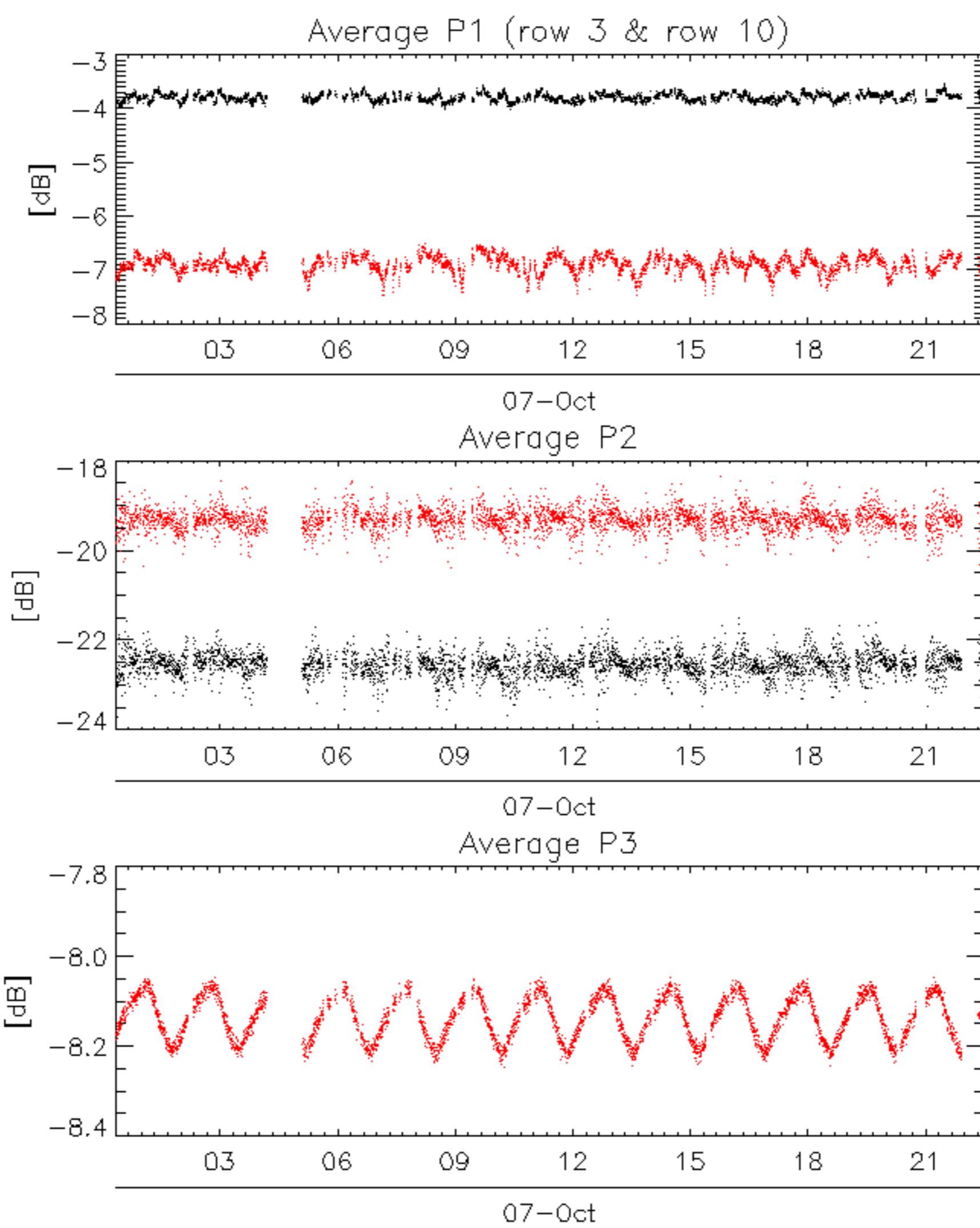
Evolution of Absolute Doppler
Ascending
Descending

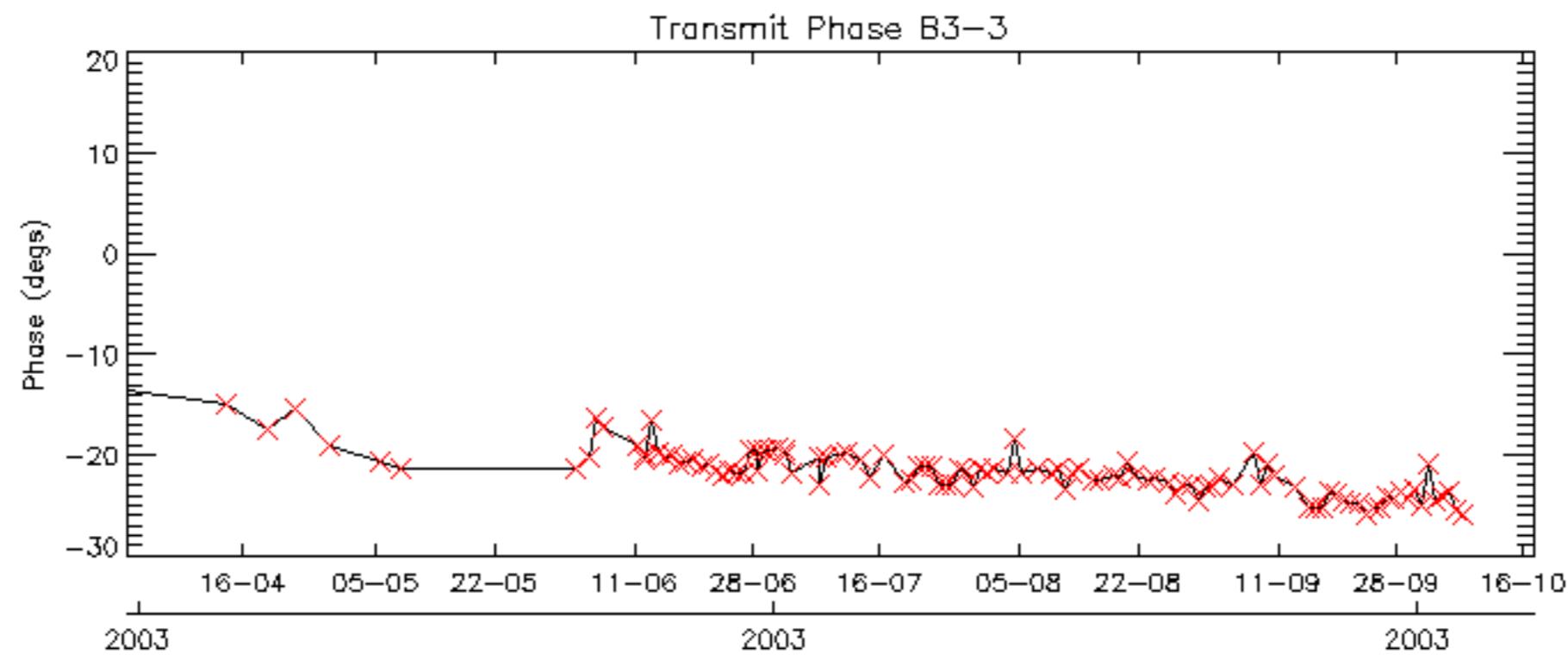
6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX







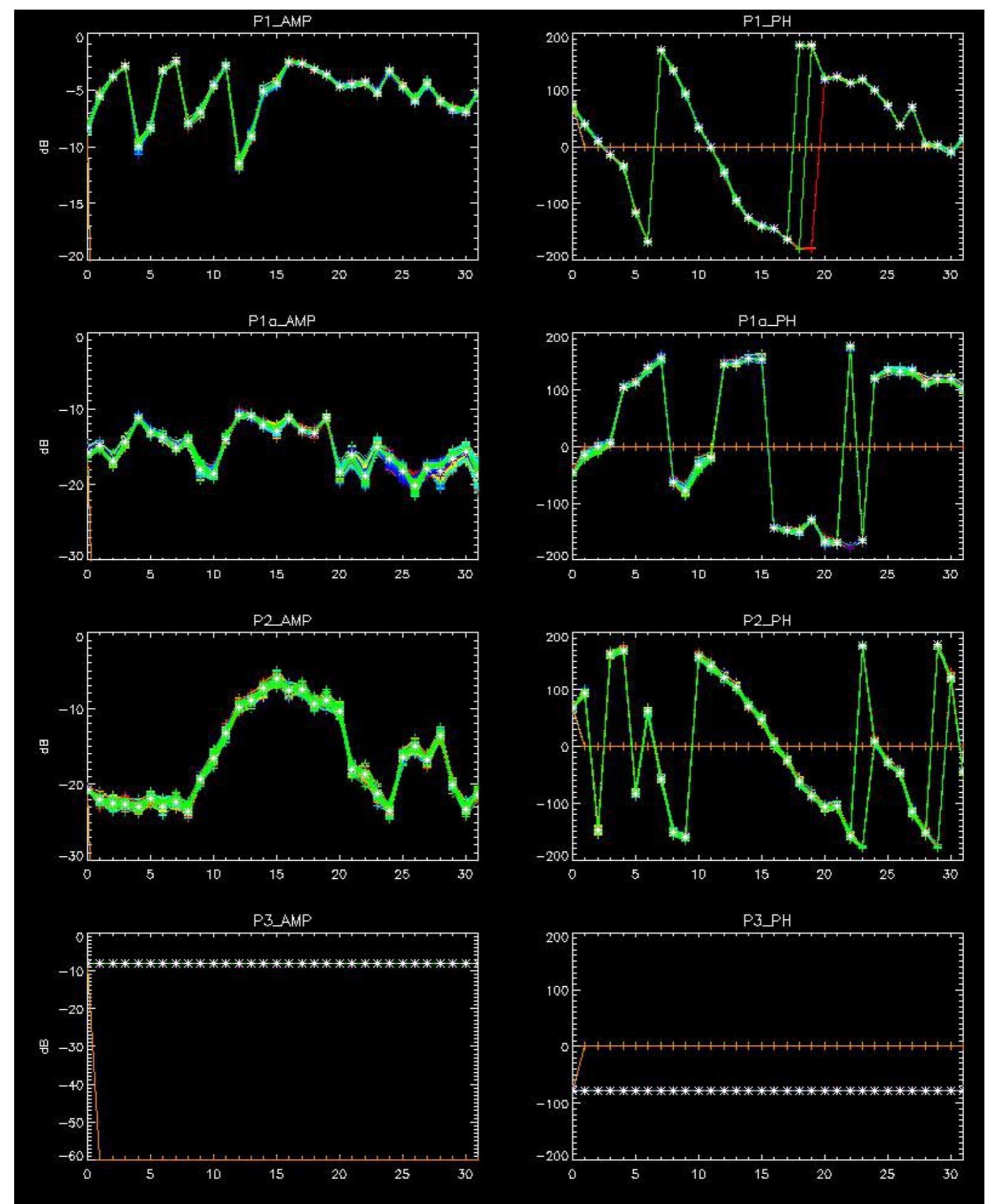


No anomalies observed on available browse products.



No anomalies observed from wave mode data analysis.



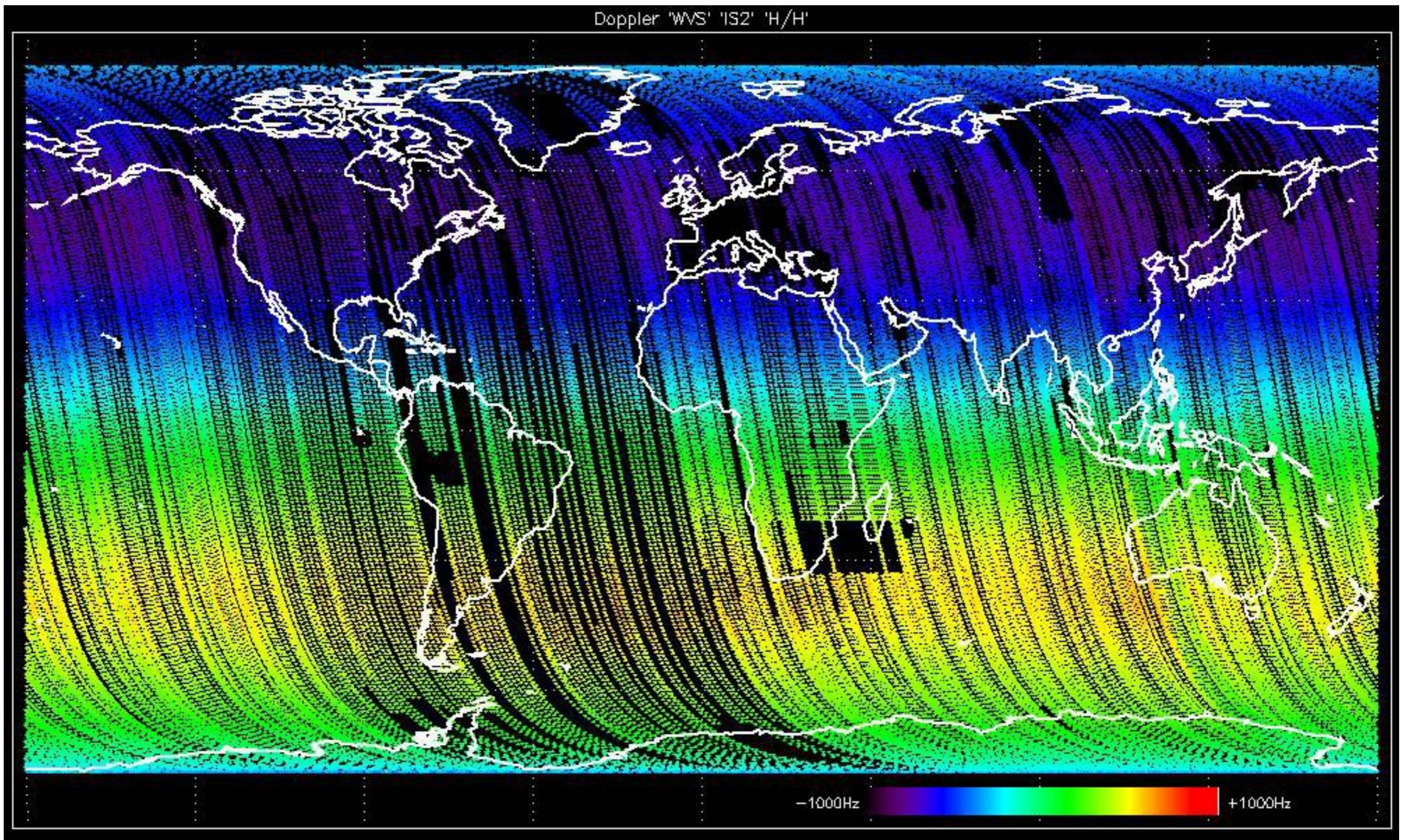


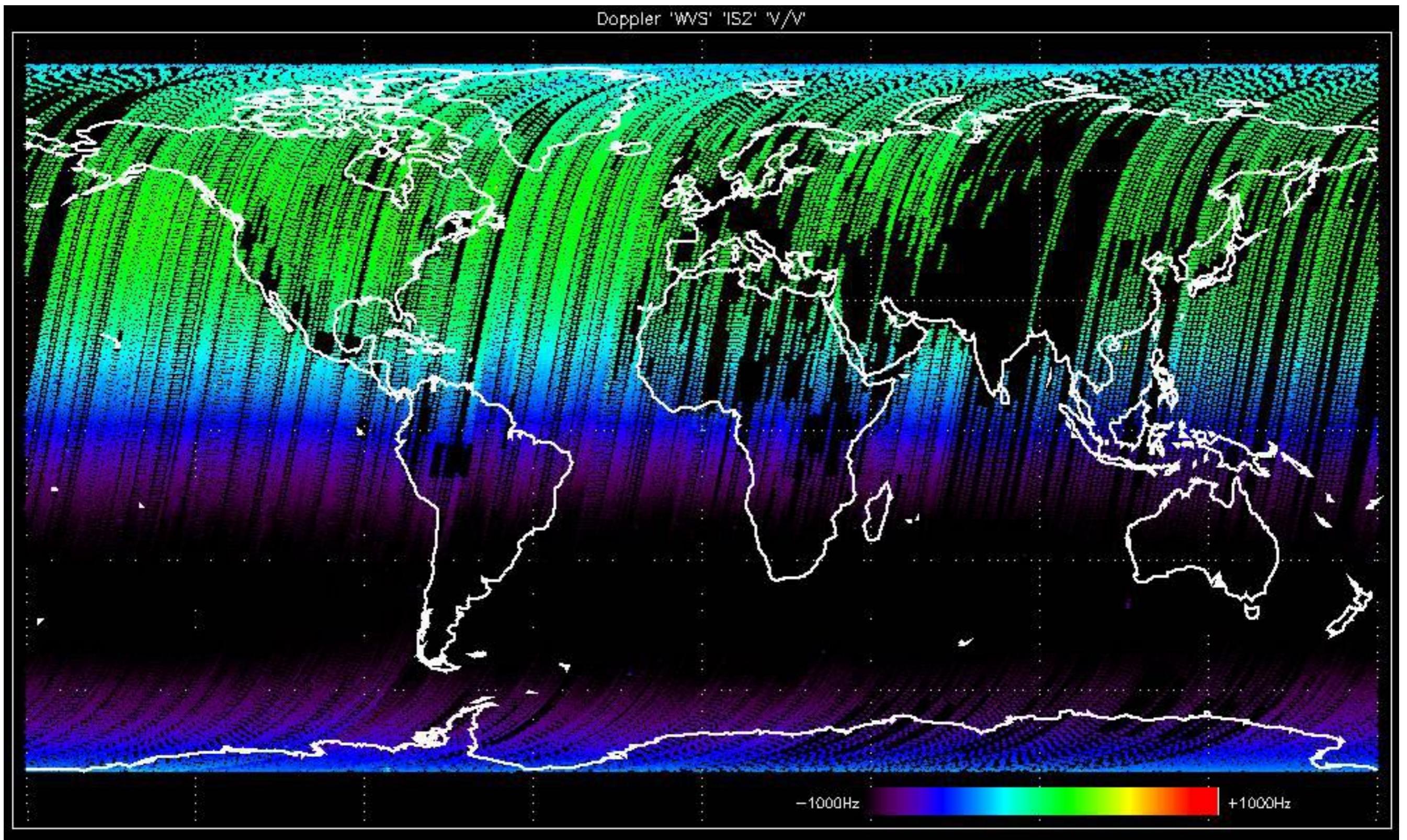
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

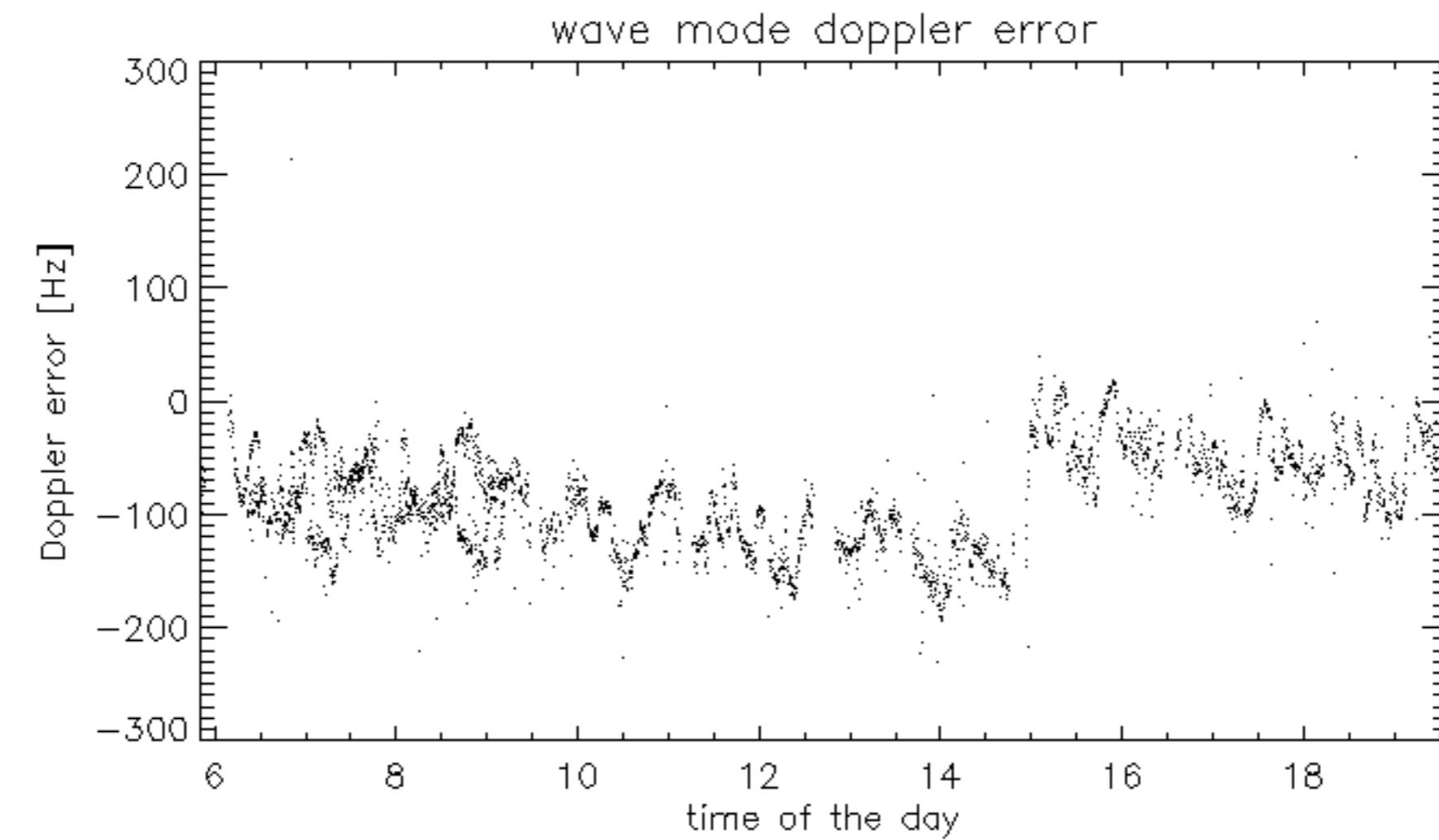
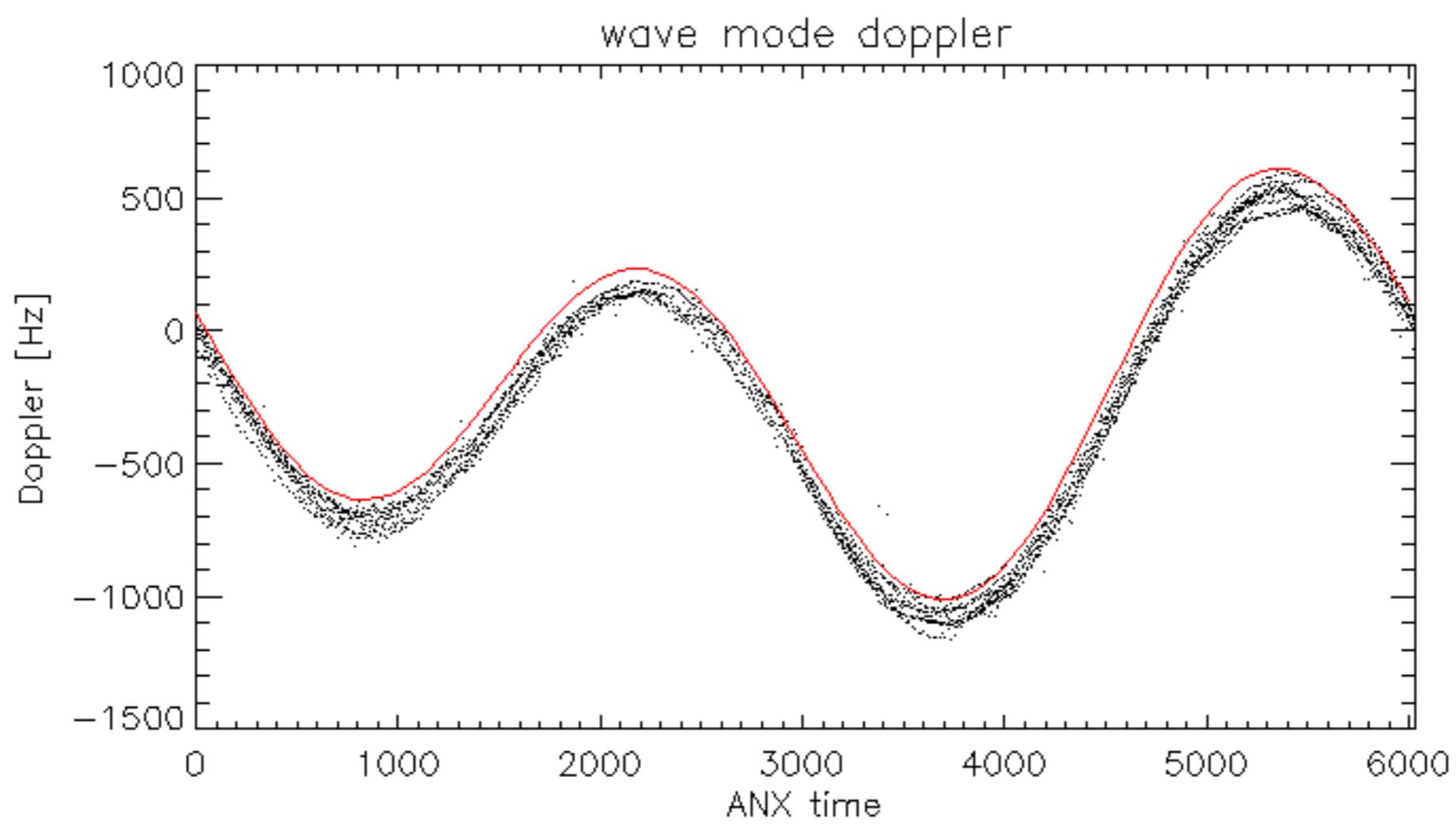


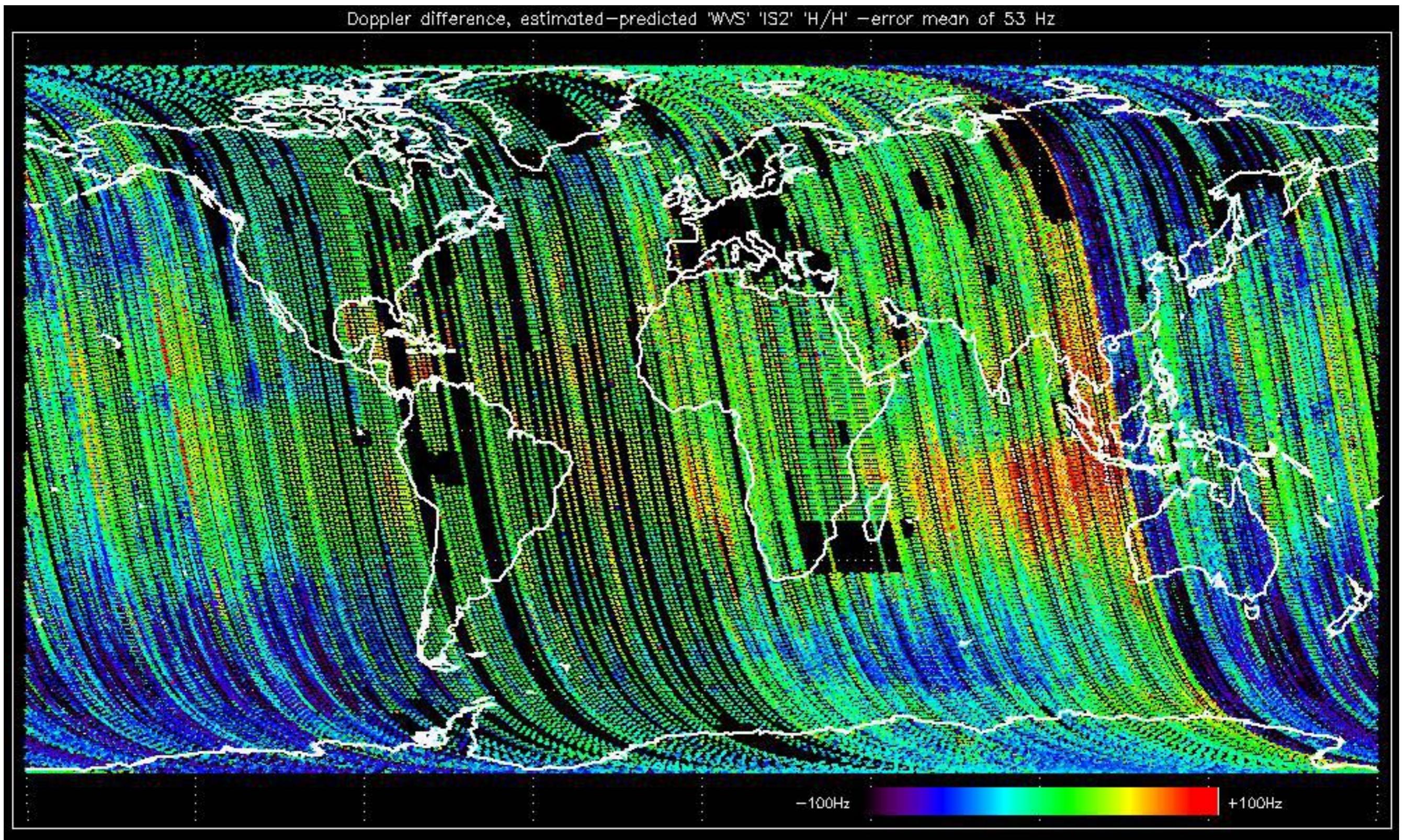
No anomalies observed in Doppler evolution.
Doppler analysis performed over the last 60 days.

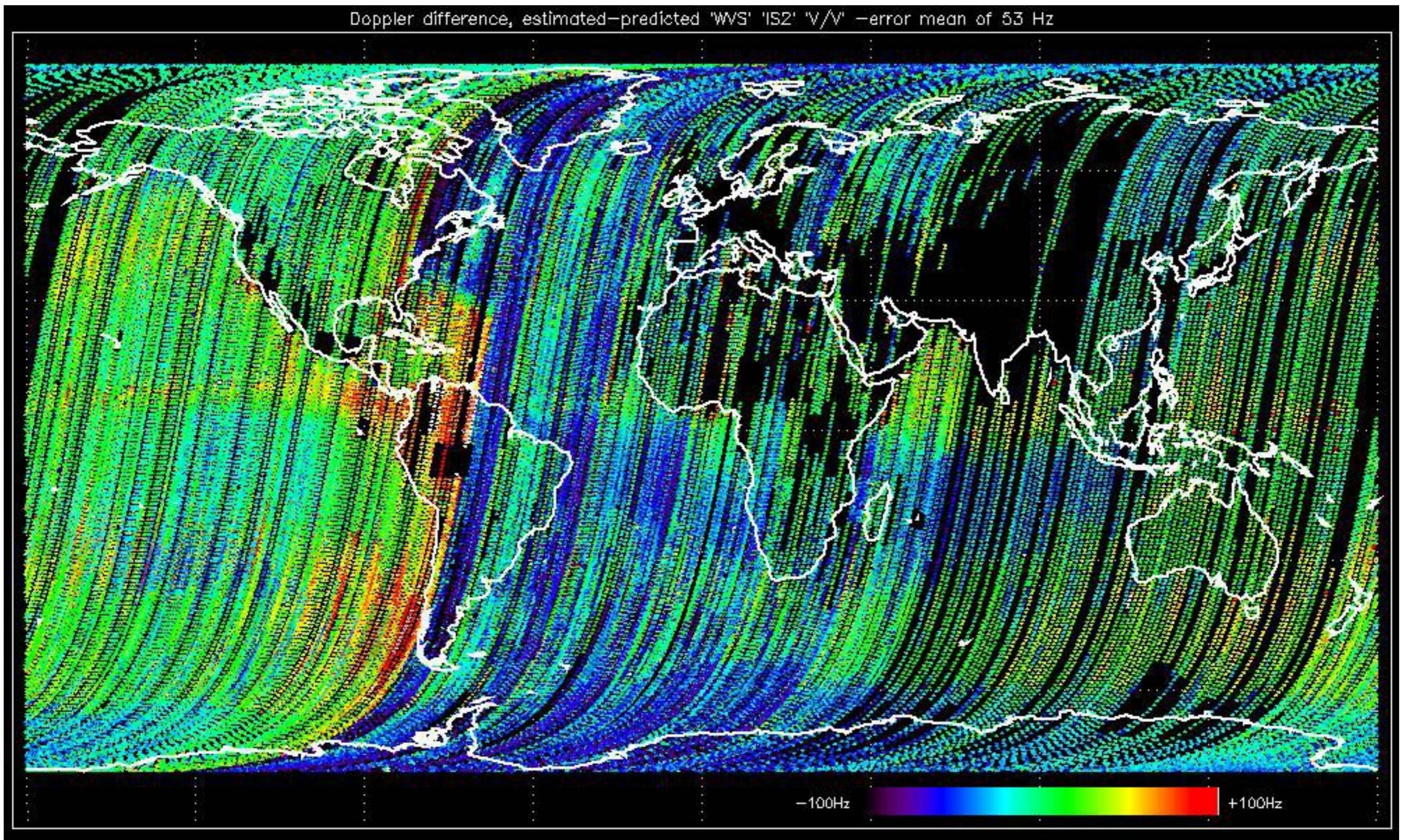












Two MS products (V and H polarization) available on 07-OCT-2003:

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- ASA_MS_0PNPDK20031007_201846_00000152020_00314_08384_0115.N1

No anomalies observed.

The drift in phase for TR module 3 on Tile B3 has decreased to a stable configuration as shown in the figure below.

No anomalies observed.



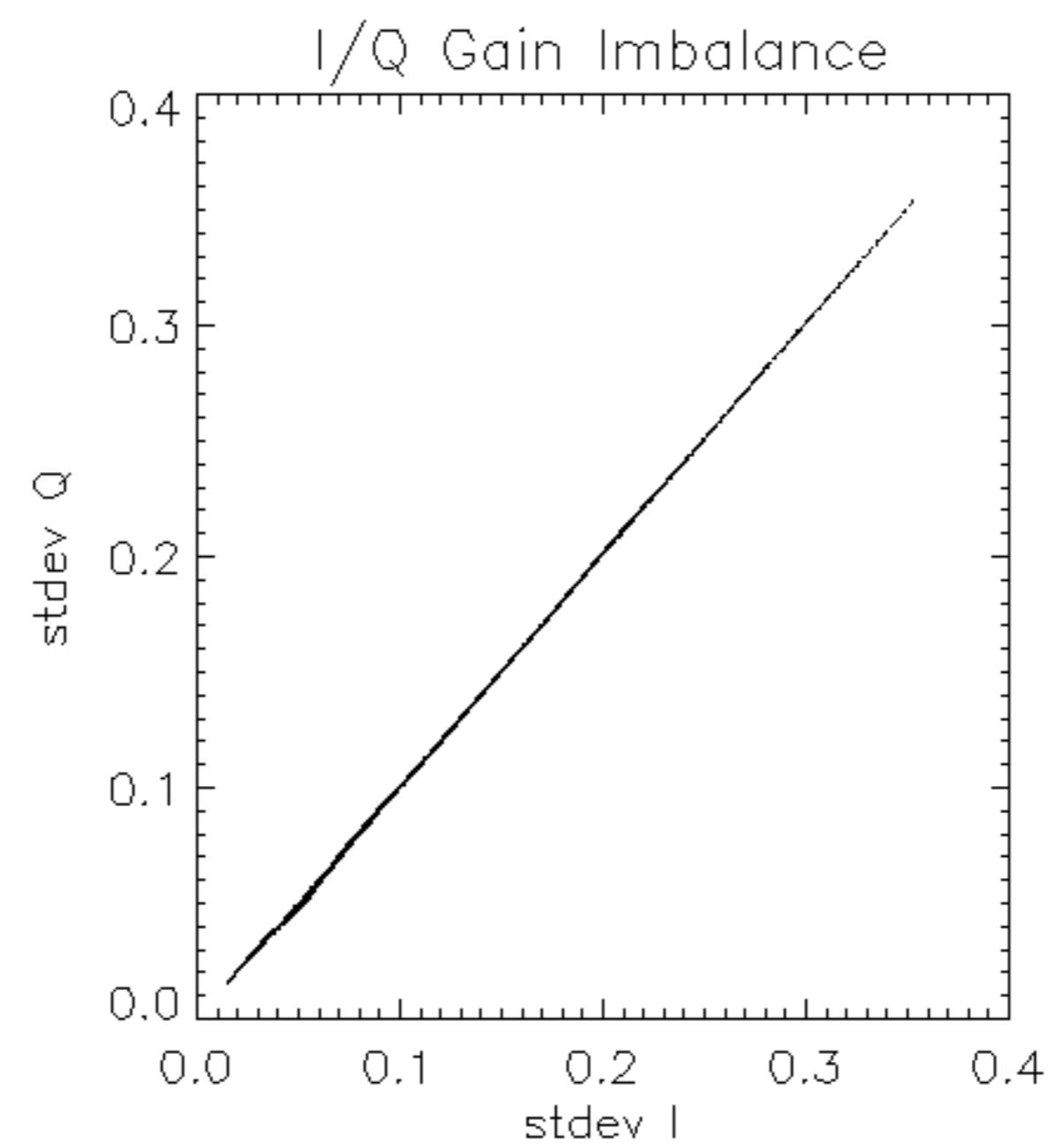
RxGain									
Reference: 2003-06-12 14:08:52 H									
Test : 2003-10-07 20:18:46 H									
A1	A3	B1	B3	C1	C3	D1	D3	E1	E3
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32								
A2	A4	B2	B4	C2	C4	D2	D4	E2	E4

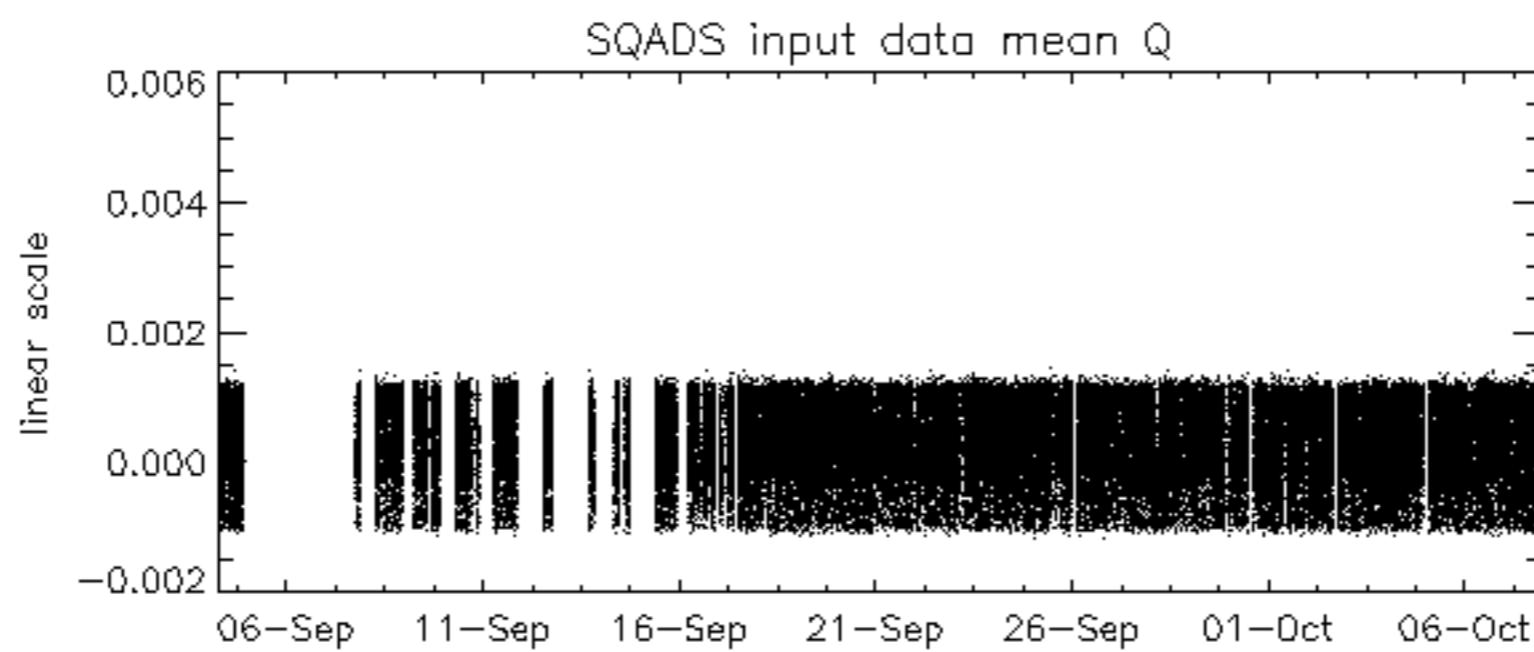
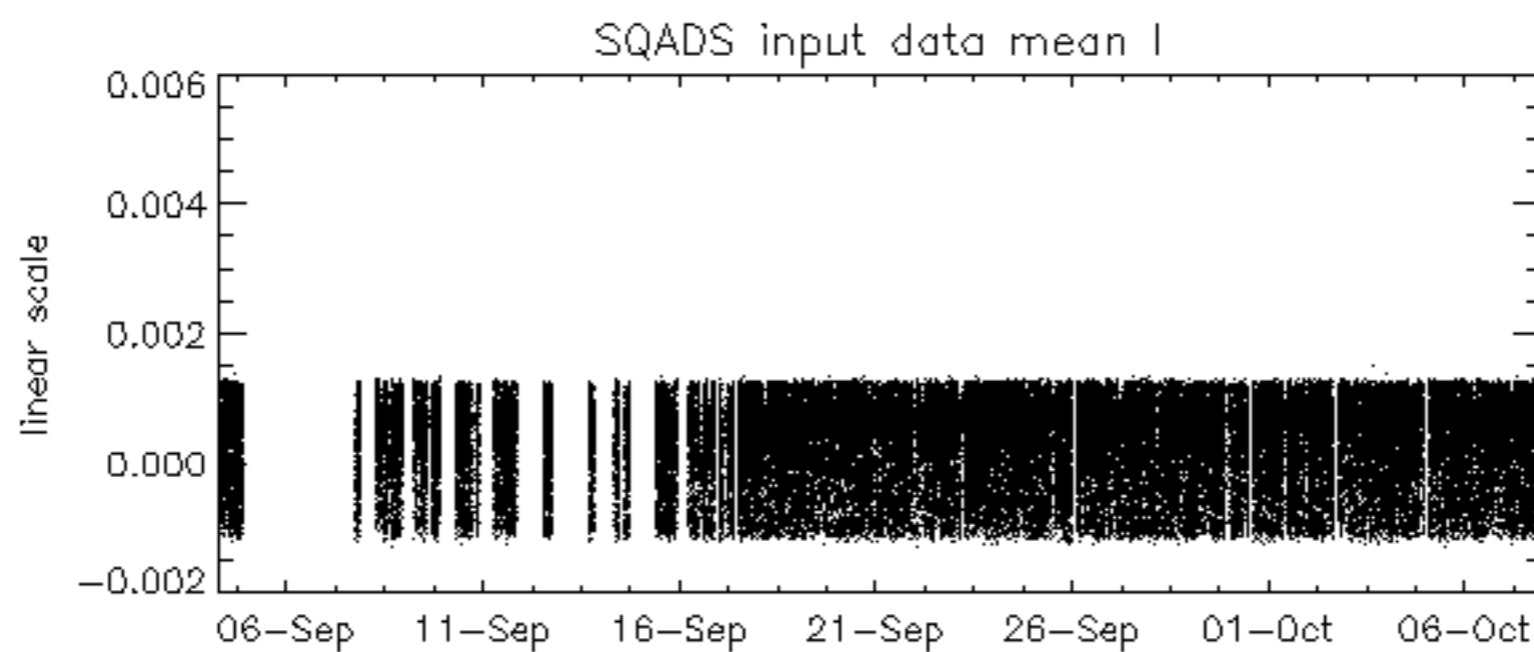
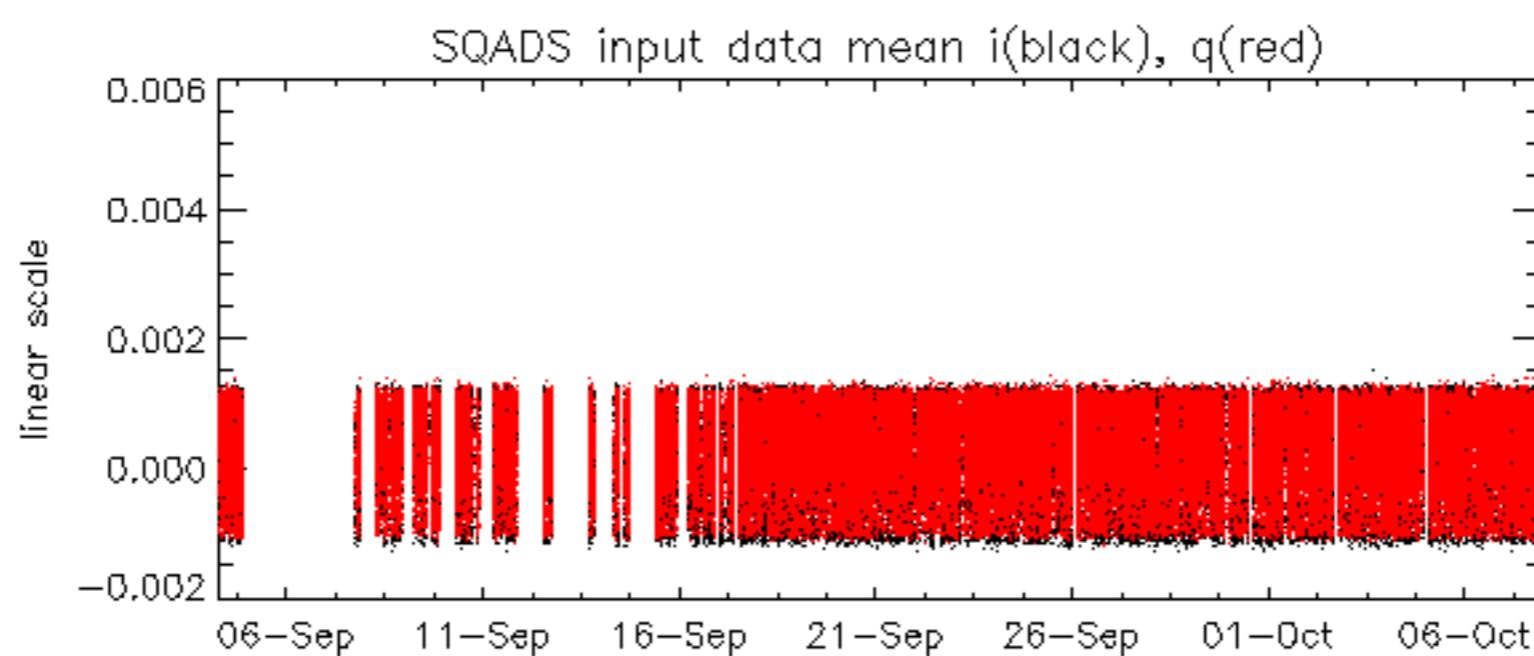
Reference: 2003-06-12 14:10:32 V

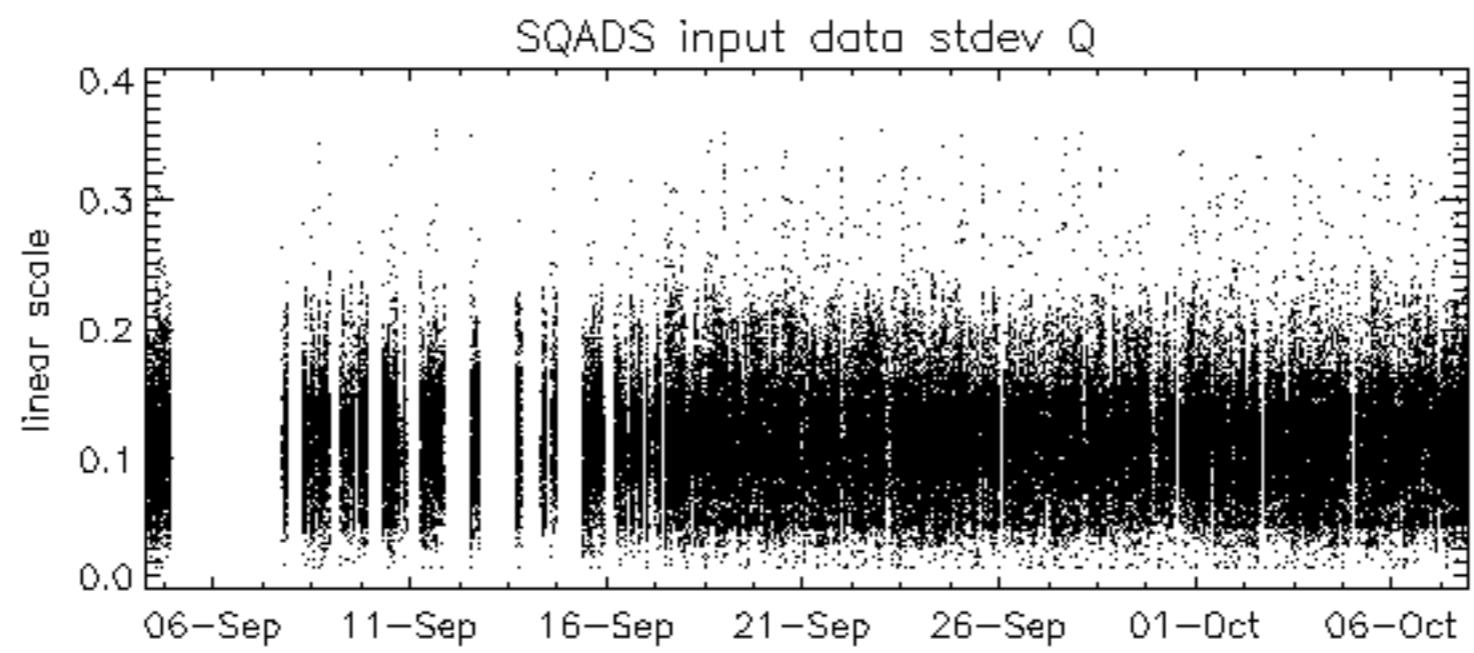
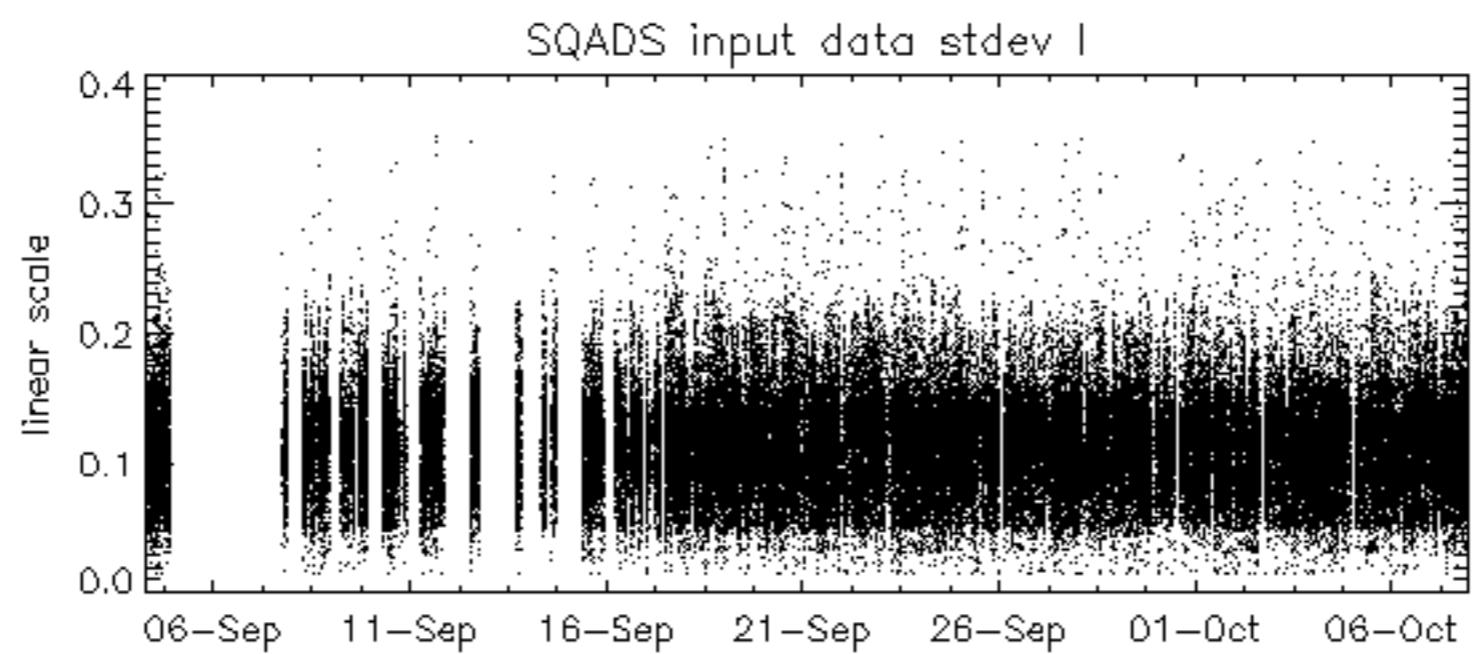
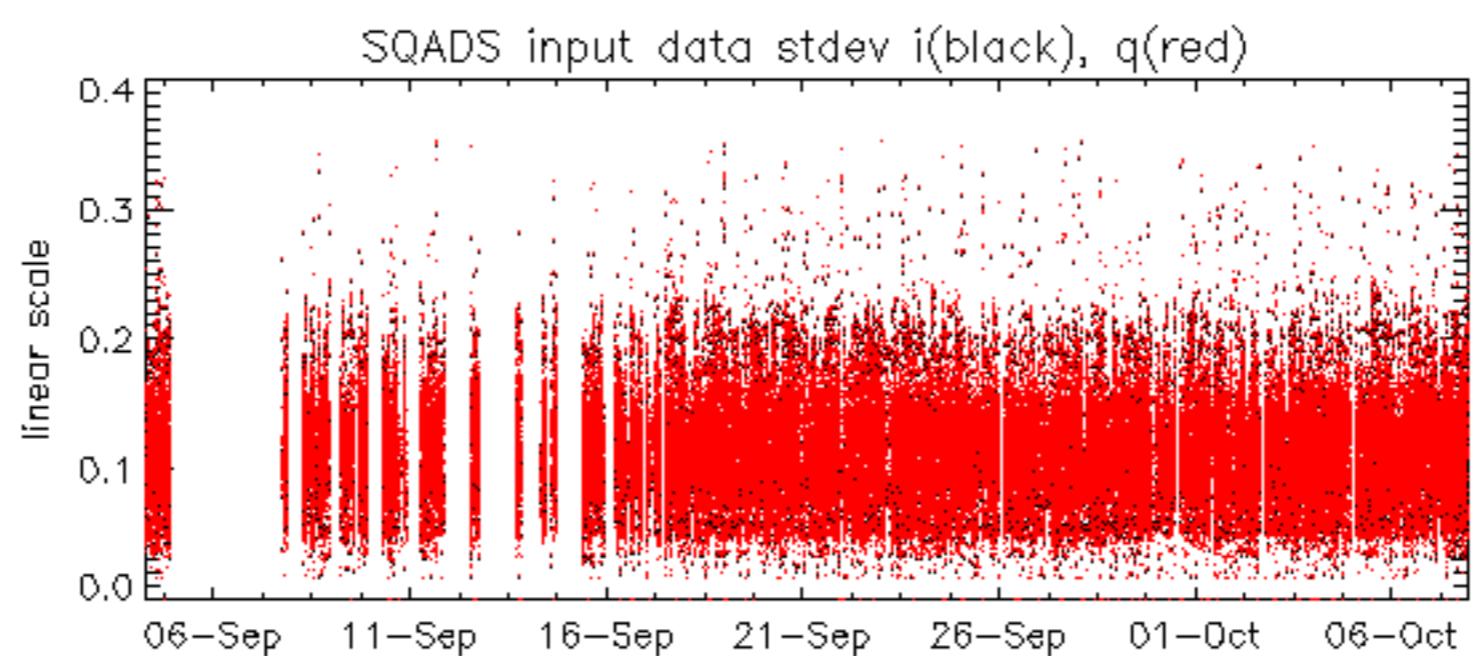
Test : 2003-10-07 20:20:26 V

RxPhase									
Reference: 2003-06-12 14:08:52 H									
Test : 2003-10-07 20:18:46 H									
							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:	2003-06-12 14:10:32 V	RxPhase
Test	: 2003-10-07 20:20:26 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
		23
A2	A4	B2
B4	C2	C4
D2	D4	E2
		E4
		24
		25
		26
		27
		28
		29
		30
		31
		32







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

Test : 2003-10-07 20:20:26 V

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

Test : 2003-10-07 20:18:46 H

Reference:	2003-06-12 14:08:52 H	TxPhase							
Test	: 2003-10-07 20:18:46 H								
A1	A3	B1	B3	C1	C3	D1	D3	E1	E3
A2	A4	B2	B4	C2	C4	D2	D4	E2	E4

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

Test : 2003-10-07 20:20:26 V

A1 A3 B1 B3 C1 C3 D1 D3 E1 E3

A2 A4 B2 B4 C2 C4 D2 D4 E2 E4

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

No unavailabilities during the reported period.

