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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

No anomalies observed on available MS products (H abd V polarization):

- ASA_MS_0PNPDK20030807_203602_000000152018_00443_07511_0068.N1
- ASA_MS_0PNPDK20030807_203742_000000152018_00443_07511_0067.N1

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	20030807 203742
H	20030807 203602

MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒
☒	☒

MSM in H/H polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒
☒	☒

4 - Internal calibration Results

Analysis performed on WS data from 07-Aug-2003 06:07:27 UTC to 08-Aug-2003 07:03:38 UTC.
No anomalies observed.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.81576	-22.5214	-8.09885
	stdev	0.00568971	0.0583550	0.00228290
10	mean	-6.91304	-19.3464	-8.09885
	stdev	0.0155542	0.0573553	0.00228290



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.86607	-22.5662	-8.10208
	stdev	0.0879925	0.0628704	0.00256387
10	mean	-6.97894	-19.3258	-8.10208
	stdev	0.417938	0.0616269	0.00256387



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	0.000480811
	stdev	3.02203e-07
MEAN Q	mean	0.000311075

stdev | 3.17579e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115358
	stdev	0.00161693
STDEV Q	mean	0.115478
	stdev	0.00164838



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

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

6.1 - Unbiased Doppler Error

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

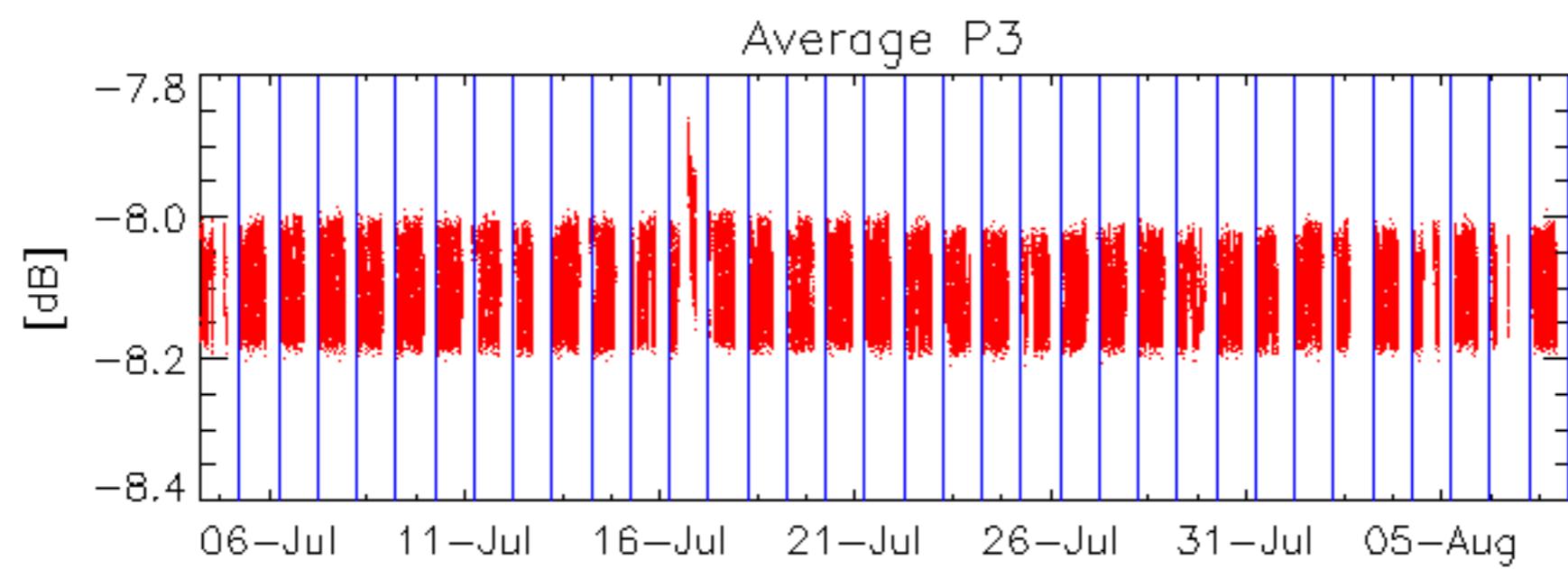
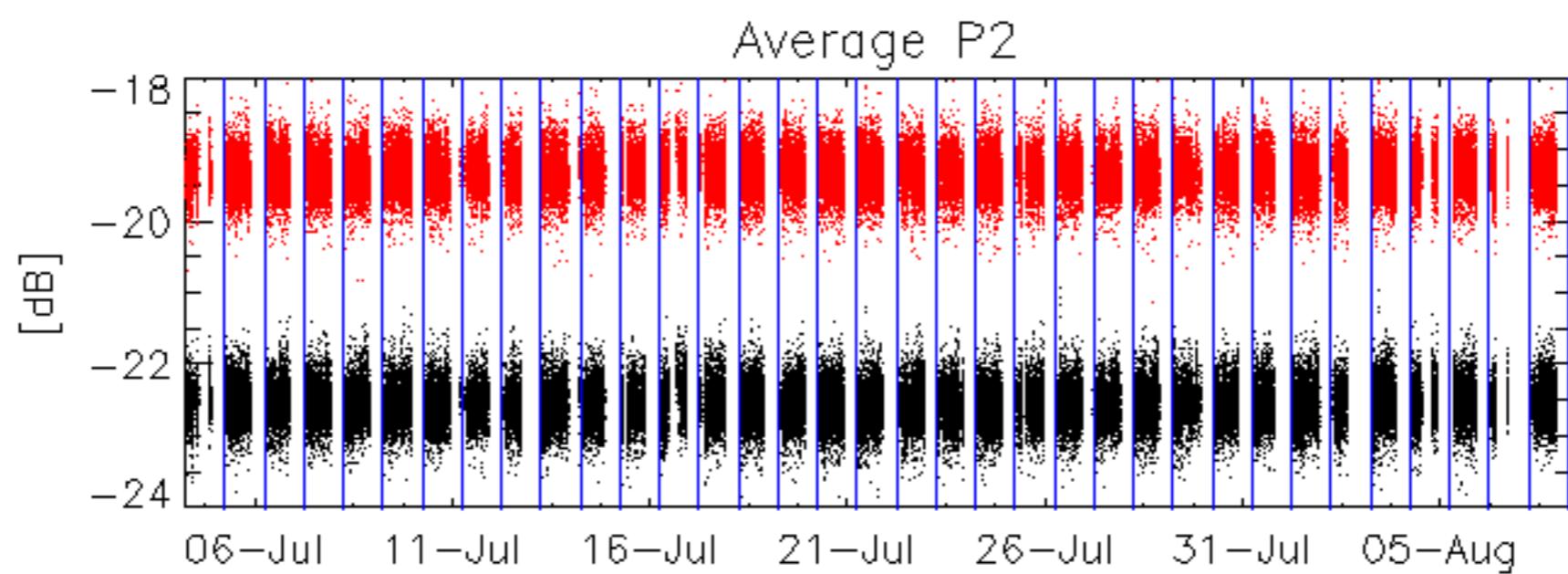
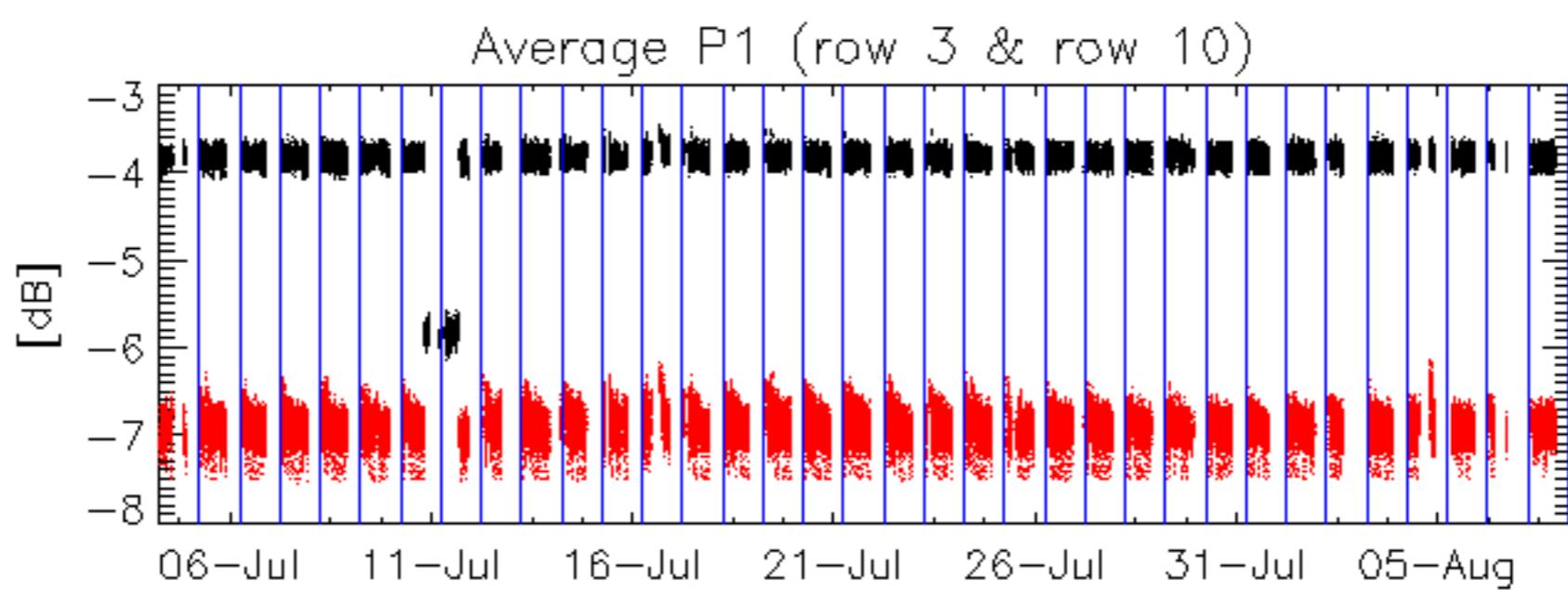
6.2 - Absolute Doppler

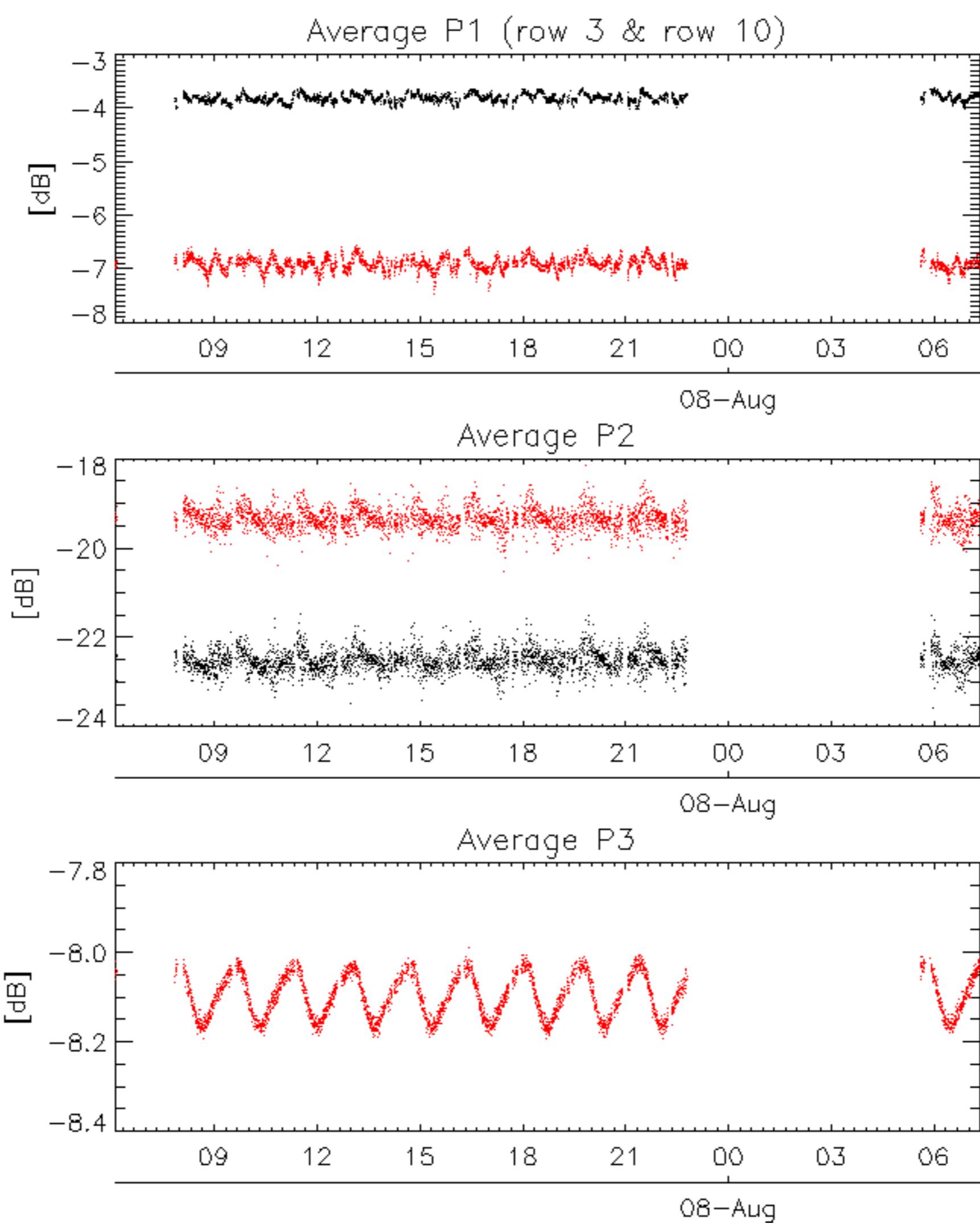
Evolution of Absolute Doppler
Ascending
Descending

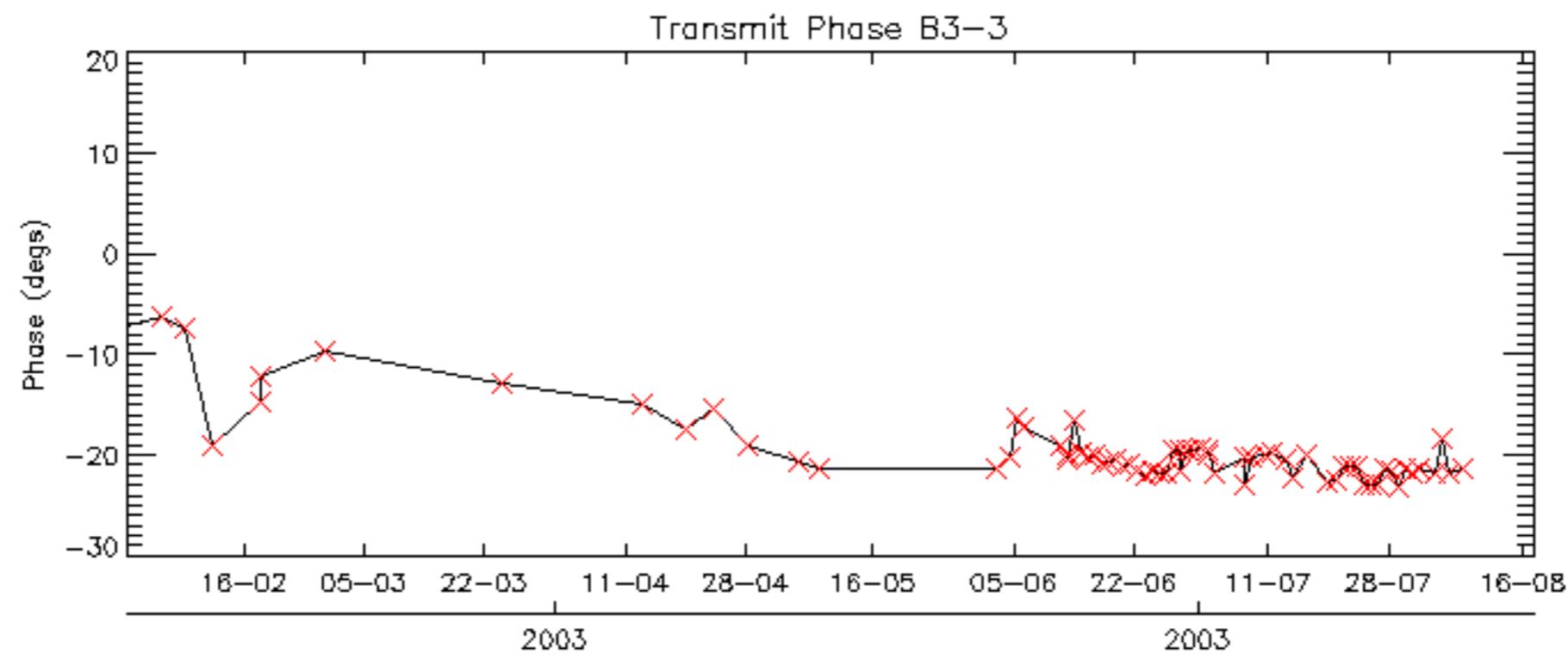
6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX







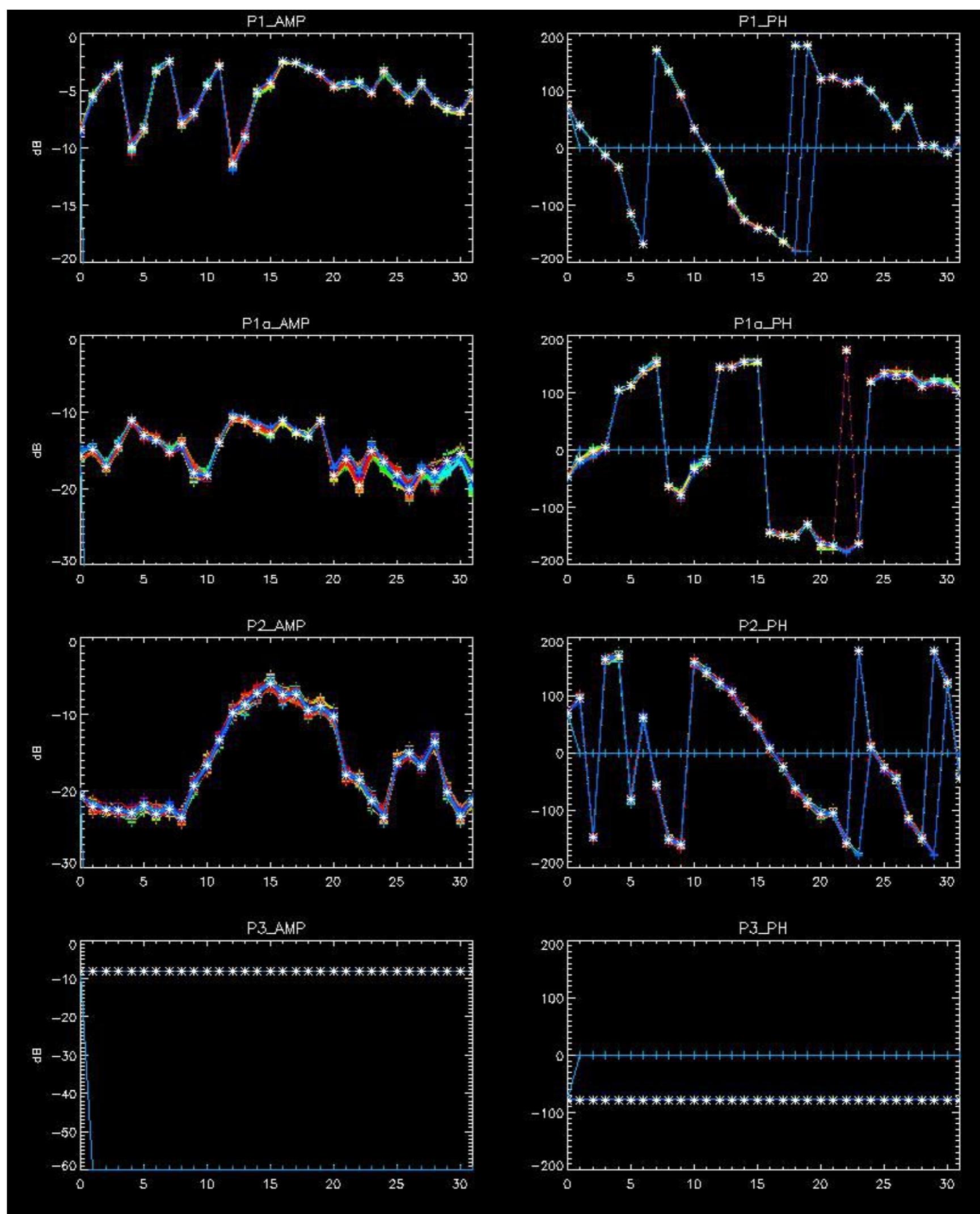


No anomalies observed on available browse products.



Analysis performed on WS data from 07-Aug-2003 06:07:27 UTC to 08-Aug-2003 07:03:38 UTC.
No anomalies observed.



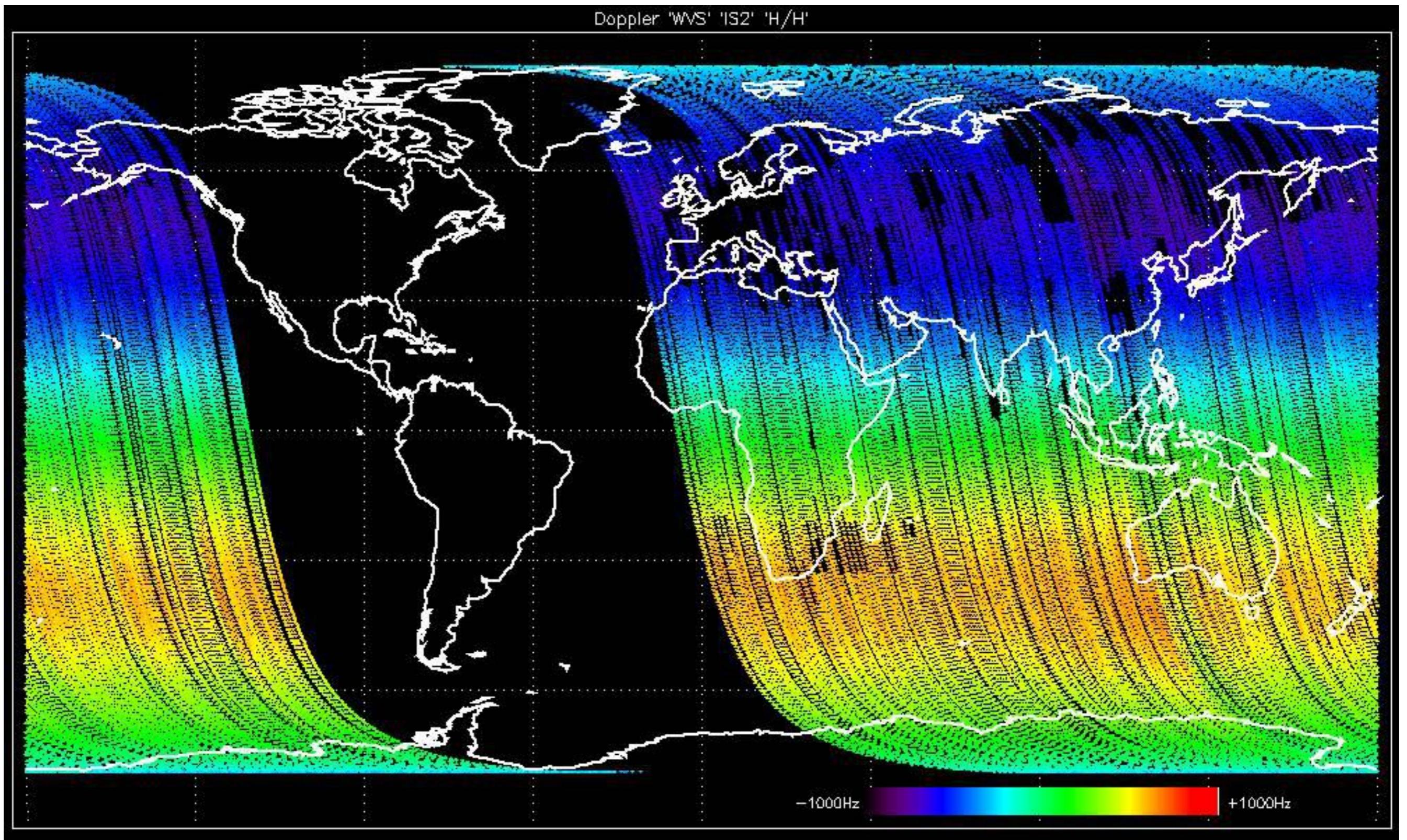


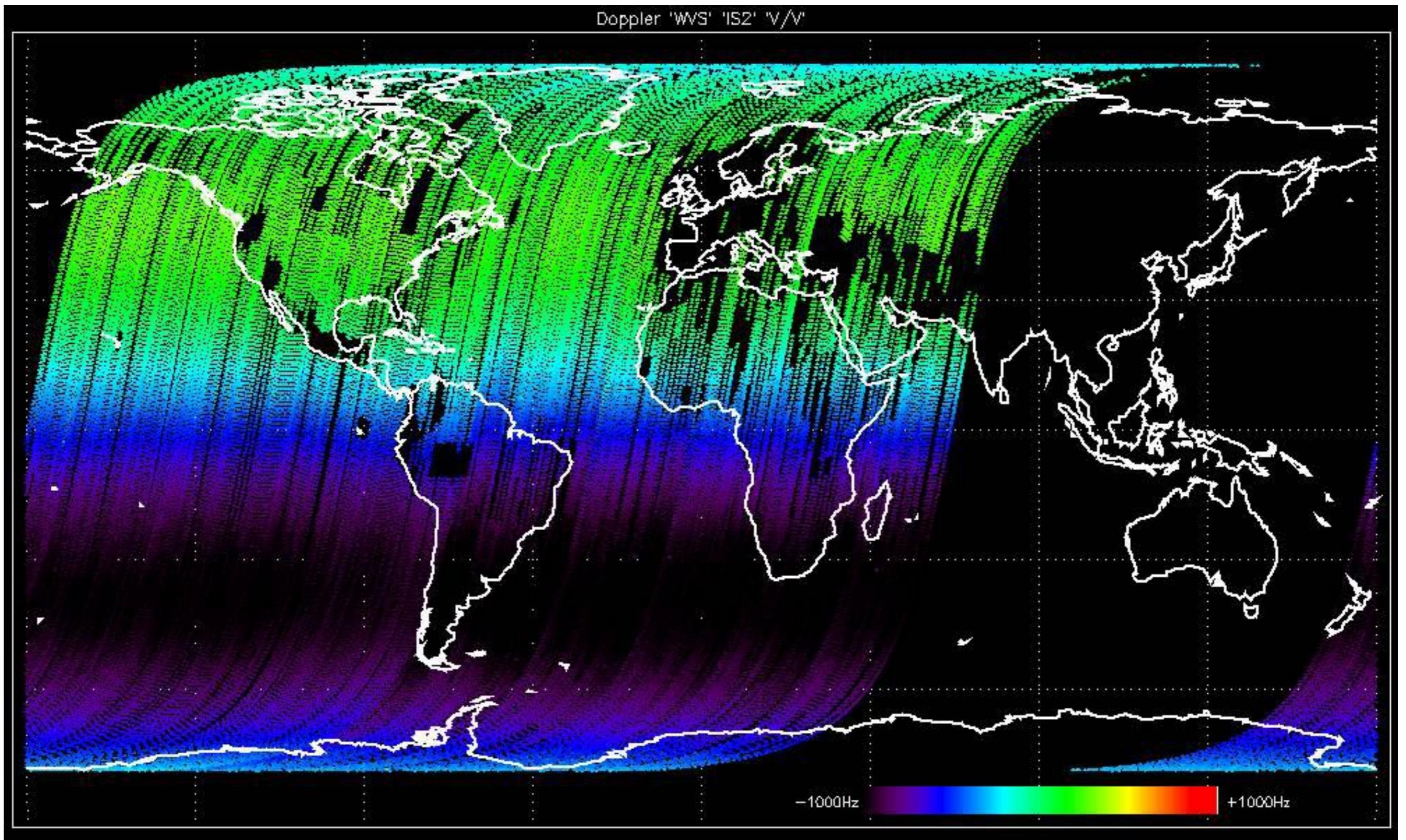
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

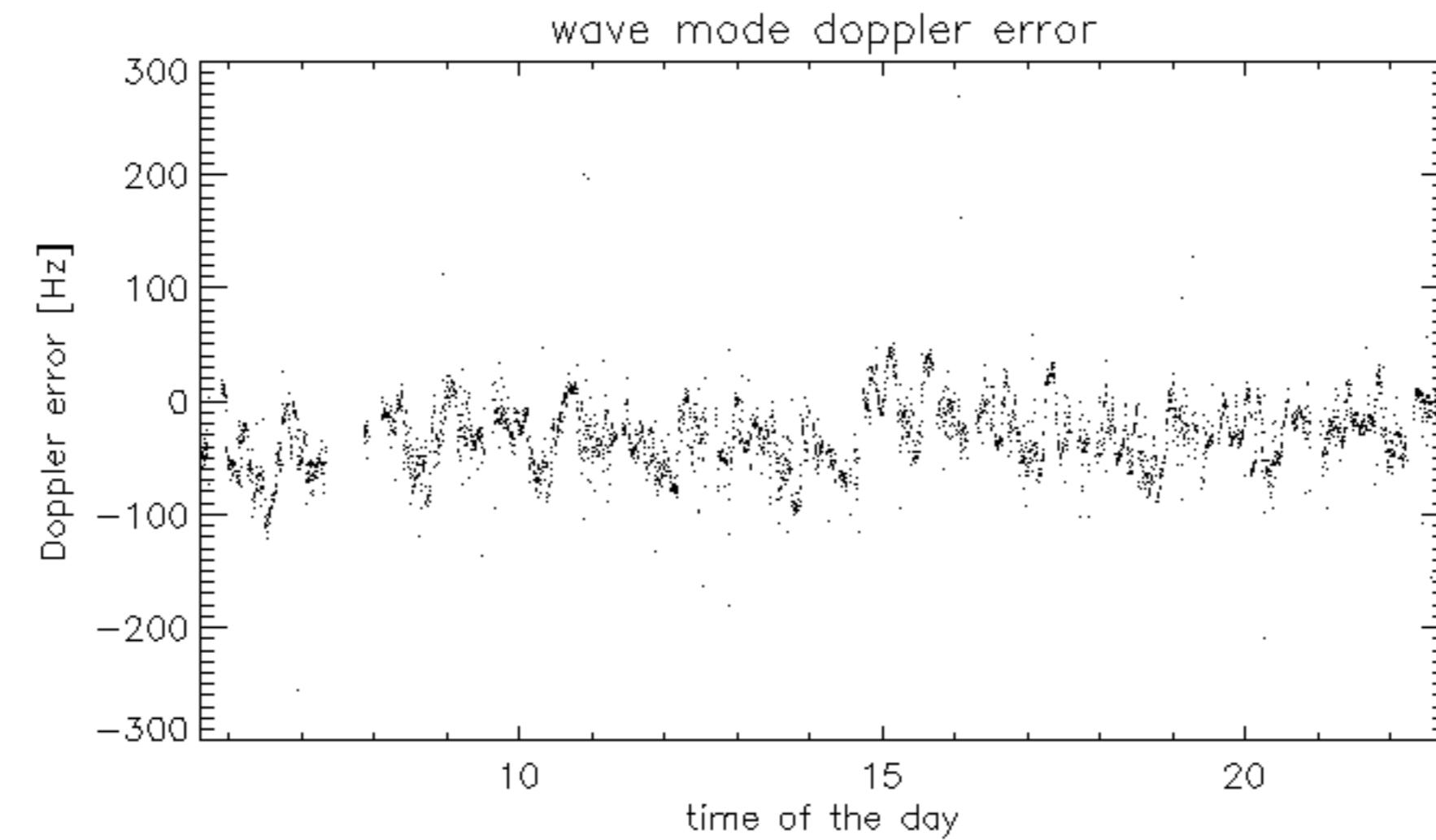
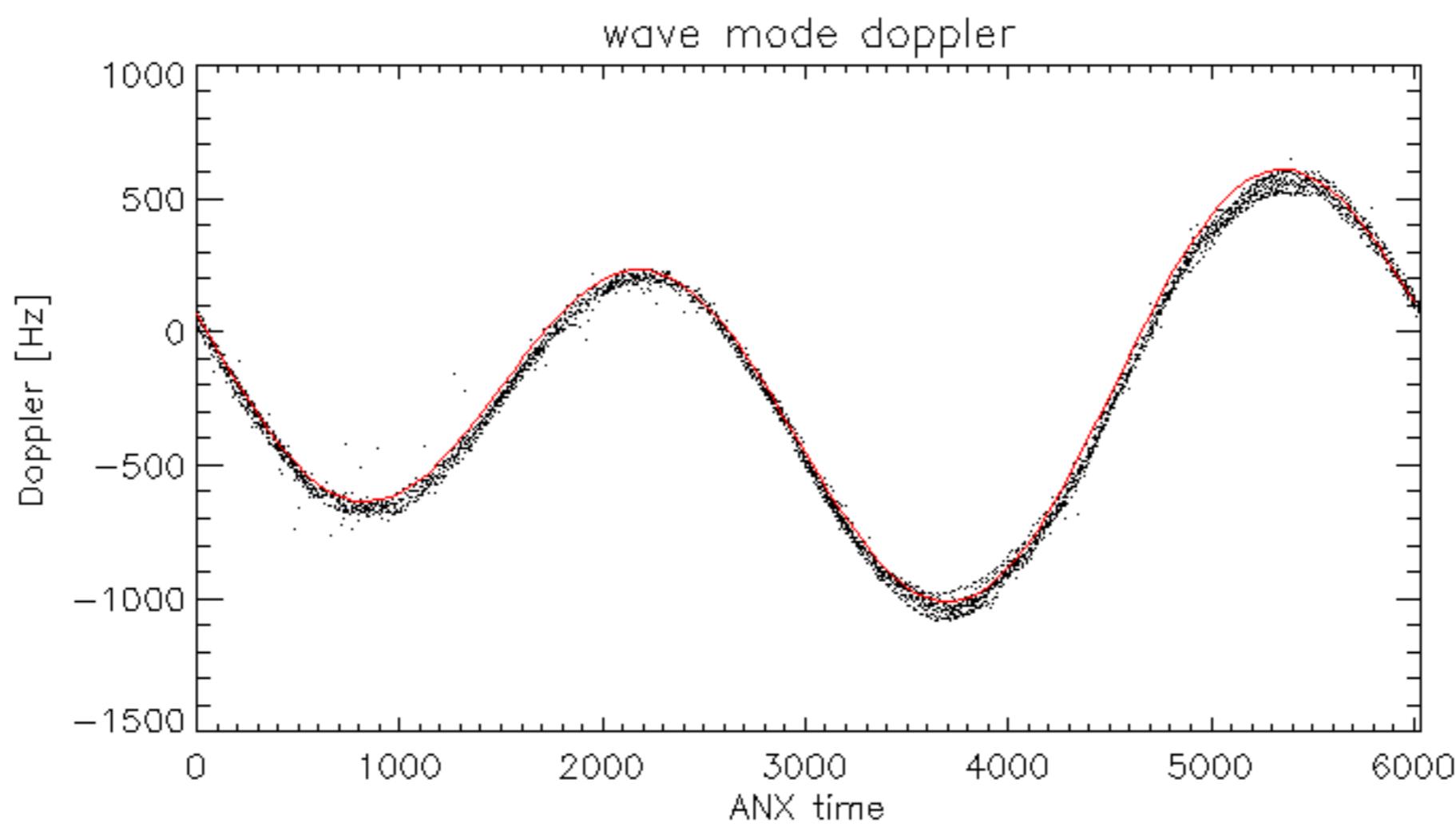


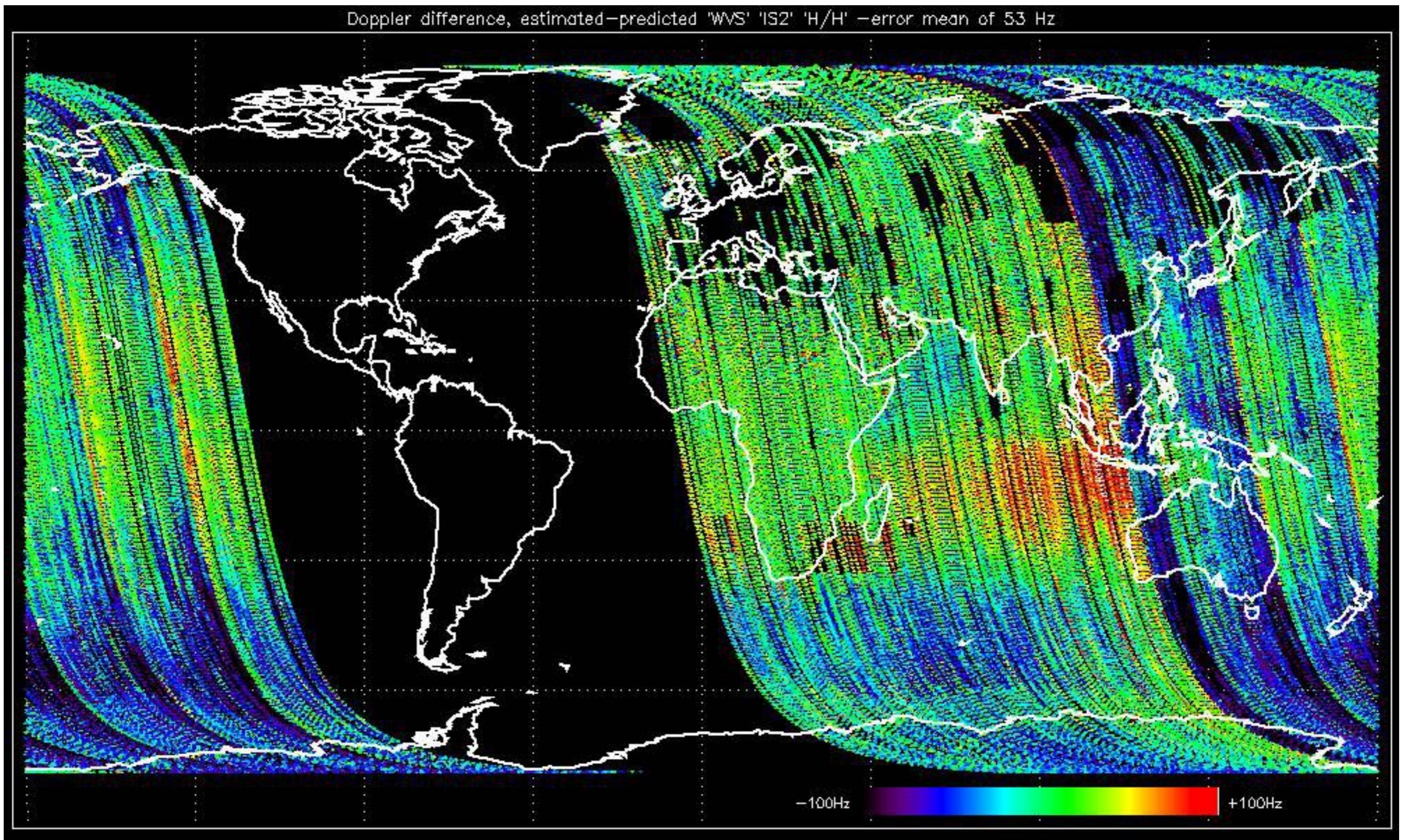
No anomalies observed in the Doppler evolution.
Doppler analysis performed over the last 60 days.

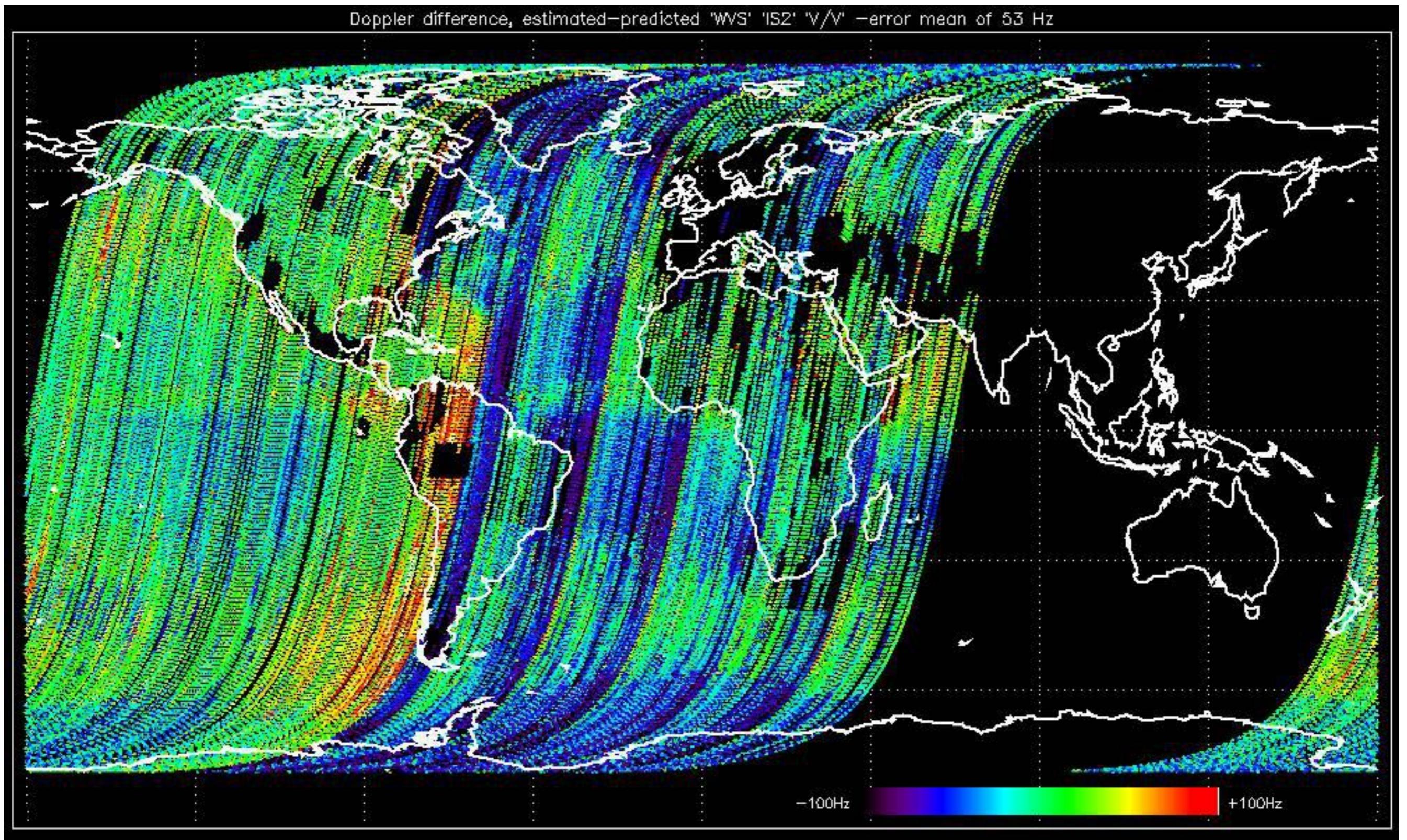












No anomalies observed on available MS products (H abd V polarization):

-ASA_MS_0PNPDK20030807_203602_00000152018_00443_07511_0068.N1

-ASA_MS_0PNPDK20030807_203742_00000152018_00443_07511_0067.N1

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.



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

RxGain

Test : 2003-08-07 20:36:02 H

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

Test : 2003-08-07 20:36:02 H

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

Test : 2003-08-07 20:37:42 V

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

Test : 2003-08-07 20:37:42 V

Reference: 2001-02-09 13:50:42 |

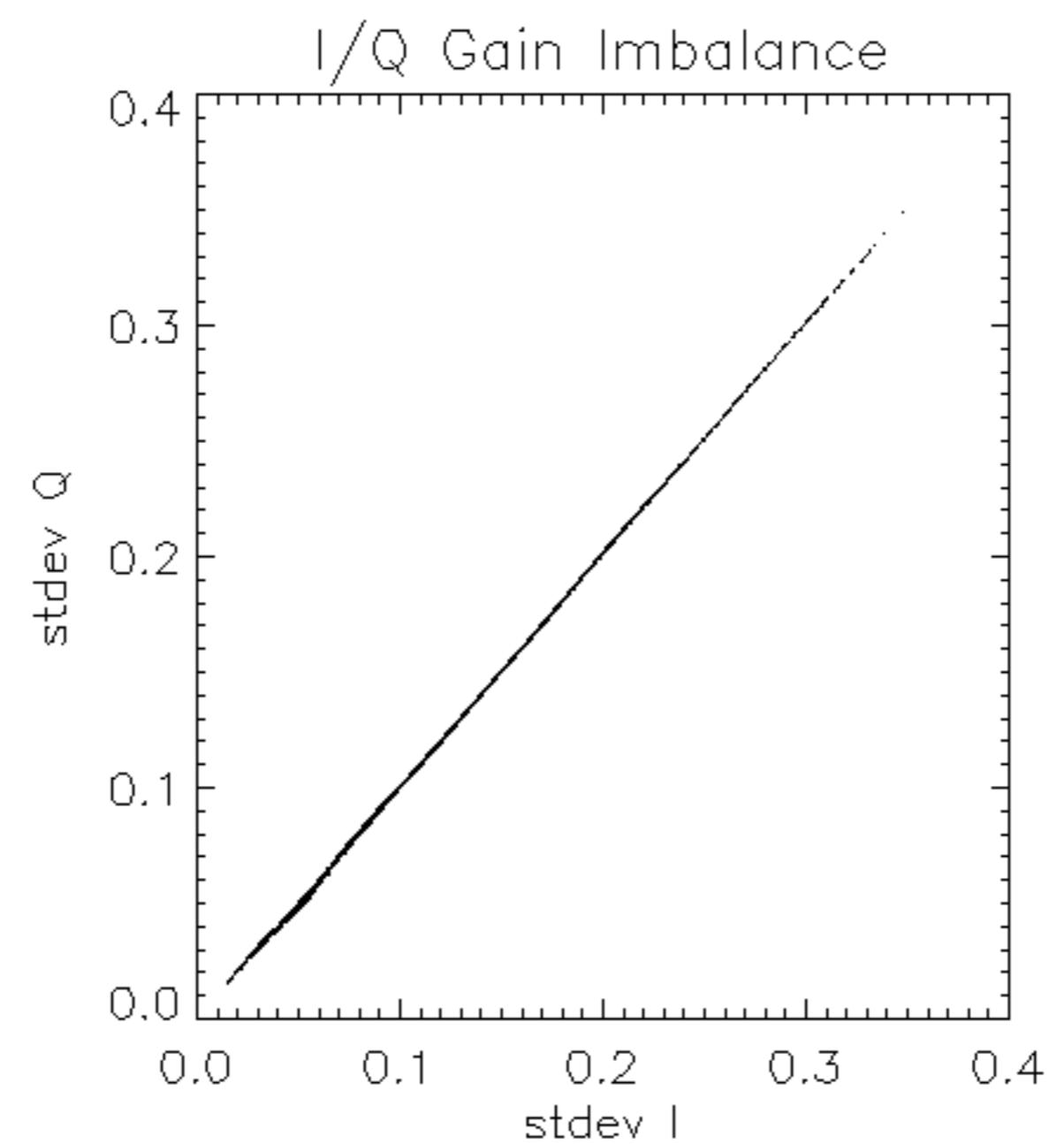
RxPhase

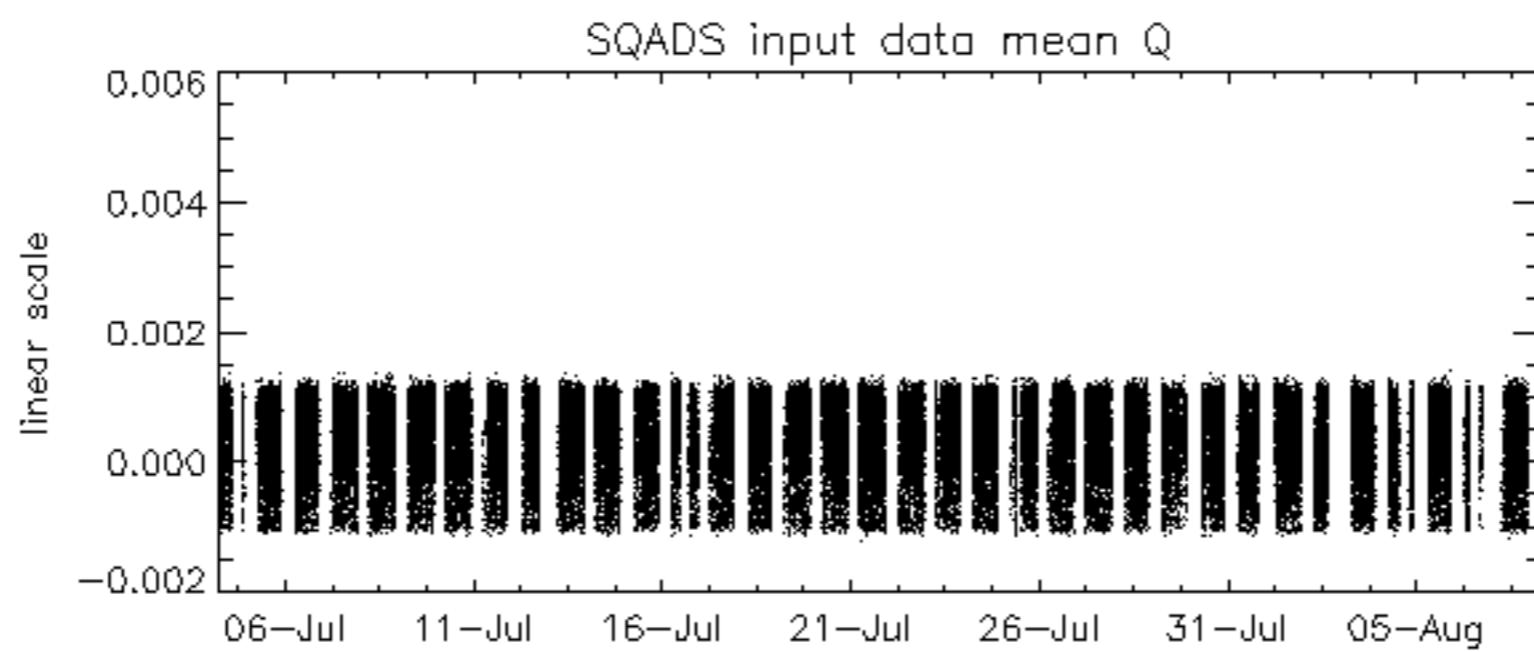
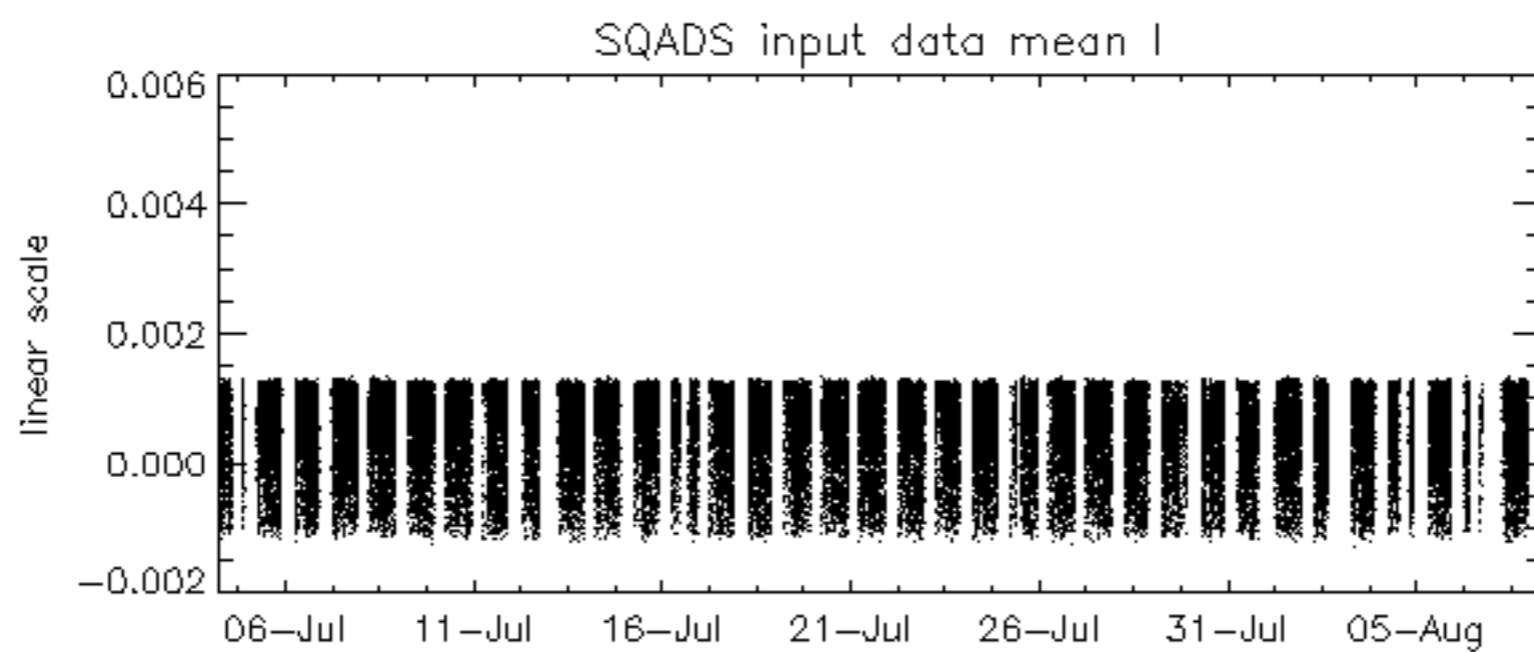
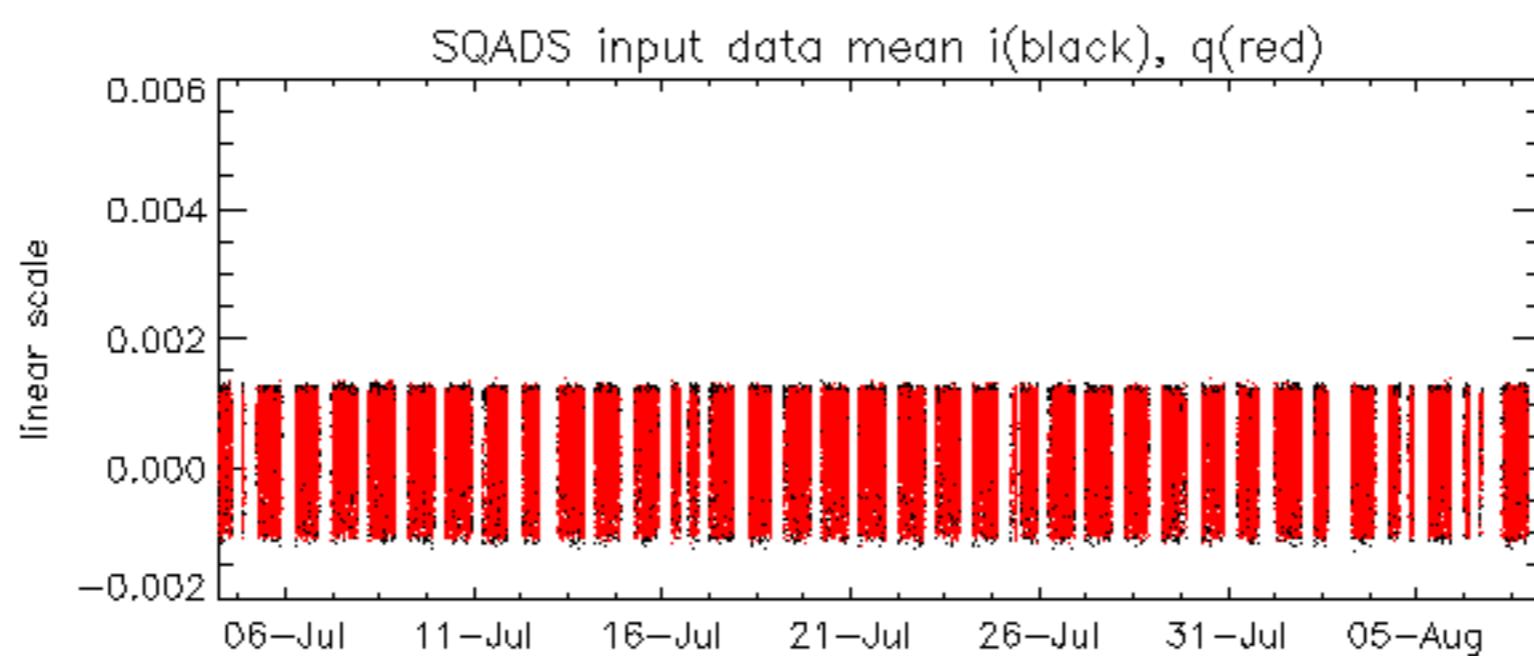
Test : 2003-08-07 20:36:02 H

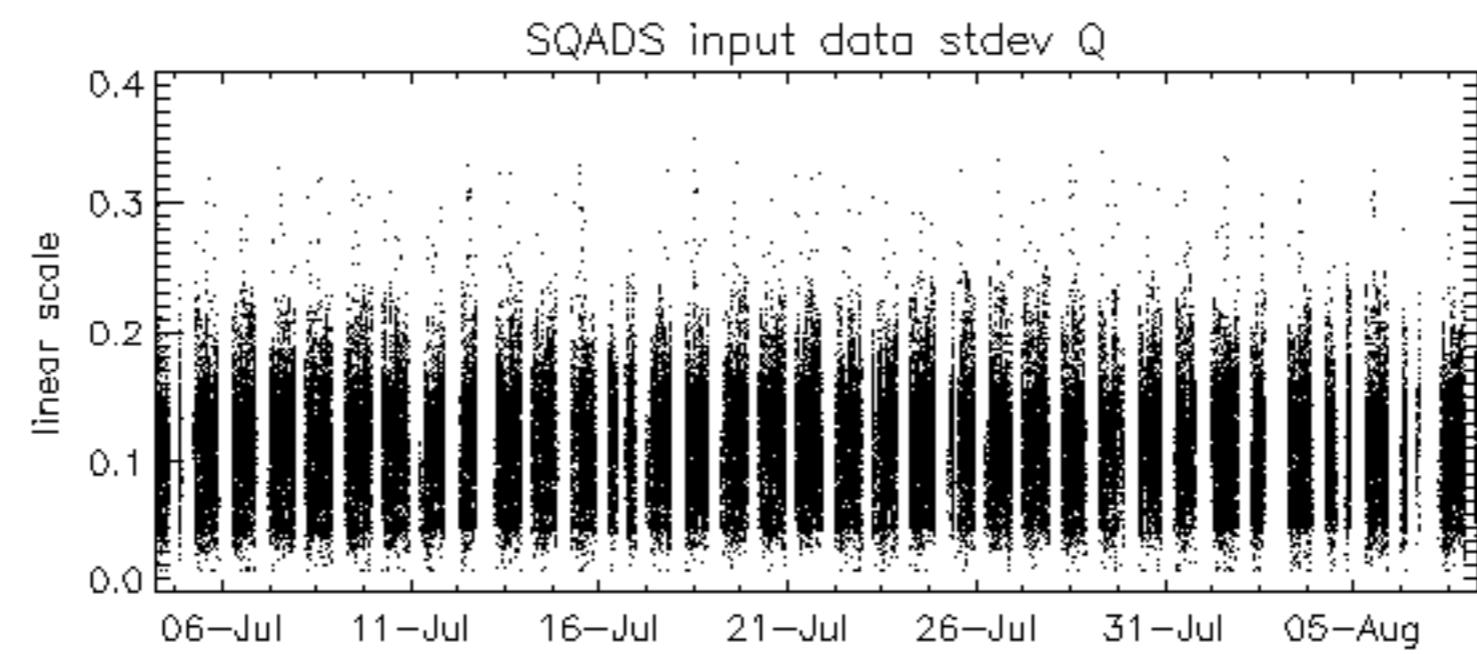
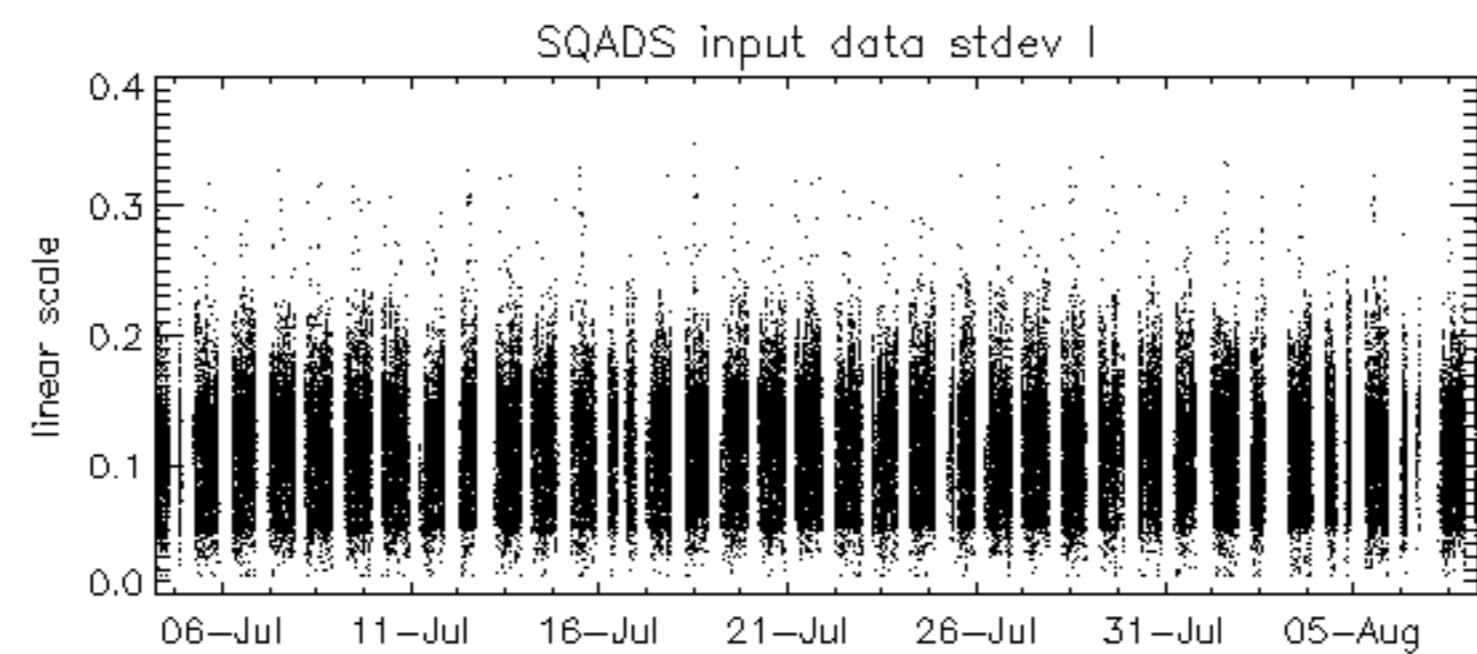
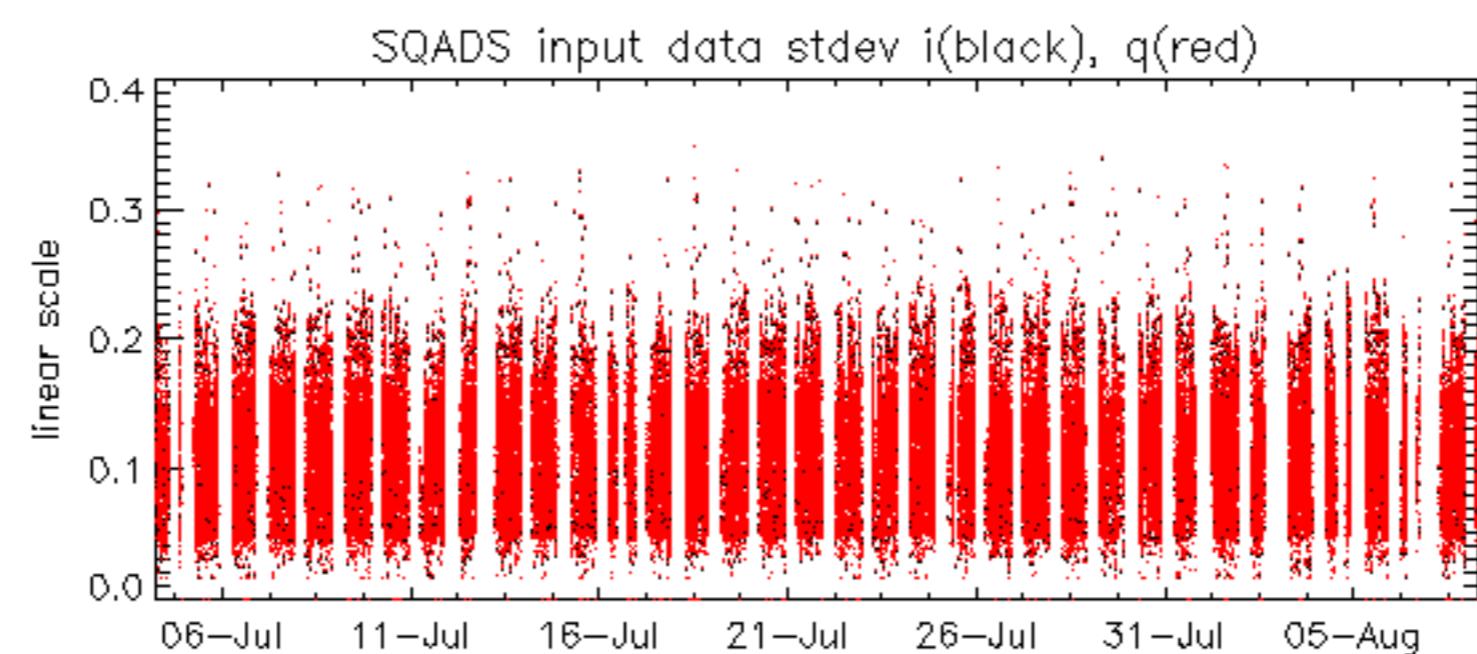
Reference: 2001-02-09 14:08:23 V RxPhase

Test : 2003-08-07 20:37:42 V

Reference: 2003-06-12 14:10:32 V RxPhase
Test : 2003-08-07 20:37:42 V







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

TxGain

Test : 2003-08-07 20:36:02 H

Reference:	2003-06-12 14:08:52 H	TxGain
Test	: 2003-08-07 20:36:02 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 TxGain

Test : 2003-08-07 20:37:42 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: 2003-06-12 14:10:32 V

Test : 2003-08-07 20:37:42 V

No unavailabilities during the reported period.

