

PRELIMINARY REPORT OF 040306

ATTENTION: This report is automatically generated no comments are provided on data analysis

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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 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.

2.2 - Browse Visual Inspection

2.3 - Data Analysis

-Stable wave internal calibration pulses gain and phase.

- Stable raw data statistics.
- Nominal Doppler behavior.

3 - Module Stepping Mode

The MS mode provides an internal health check on an individual module basis.
 The purpose of this mode is to identify any malfunctionning modules and
 to identify modules for which calibration offsets are to be applied.
 No anomalies observed on available MS products:

Polarisation	Start Time
V	20040305 195403
H	20040304 202419

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

4.2 - Cyclic statistics



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	0.000457652
	stdev	2.53898e-07
MEAN Q	mean	0.000443069
	stdev	2.93738e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.124051
	stdev	0.00121490
STDEV Q	mean	0.124279
	stdev	0.00122836



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

Preliminary report. The data is not yet controled

6.1 - Unbiased Doppler Error

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

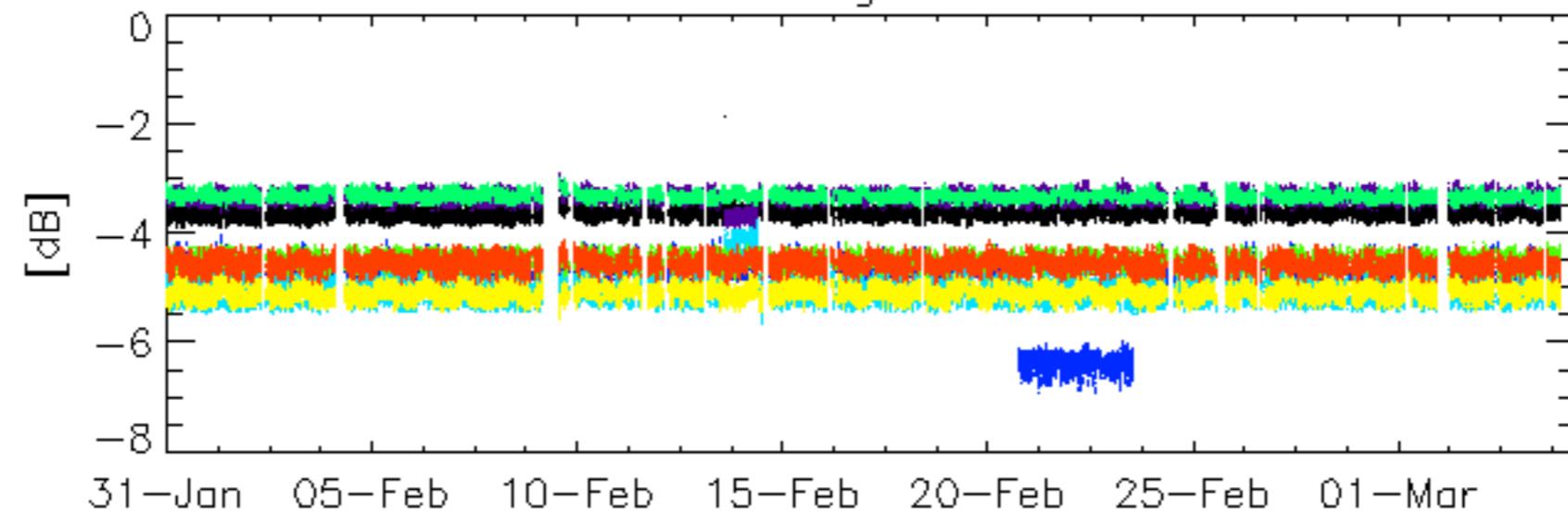
6.2 - Absolute Doppler

Evolution of Absolute Doppler
Ascending
Descending

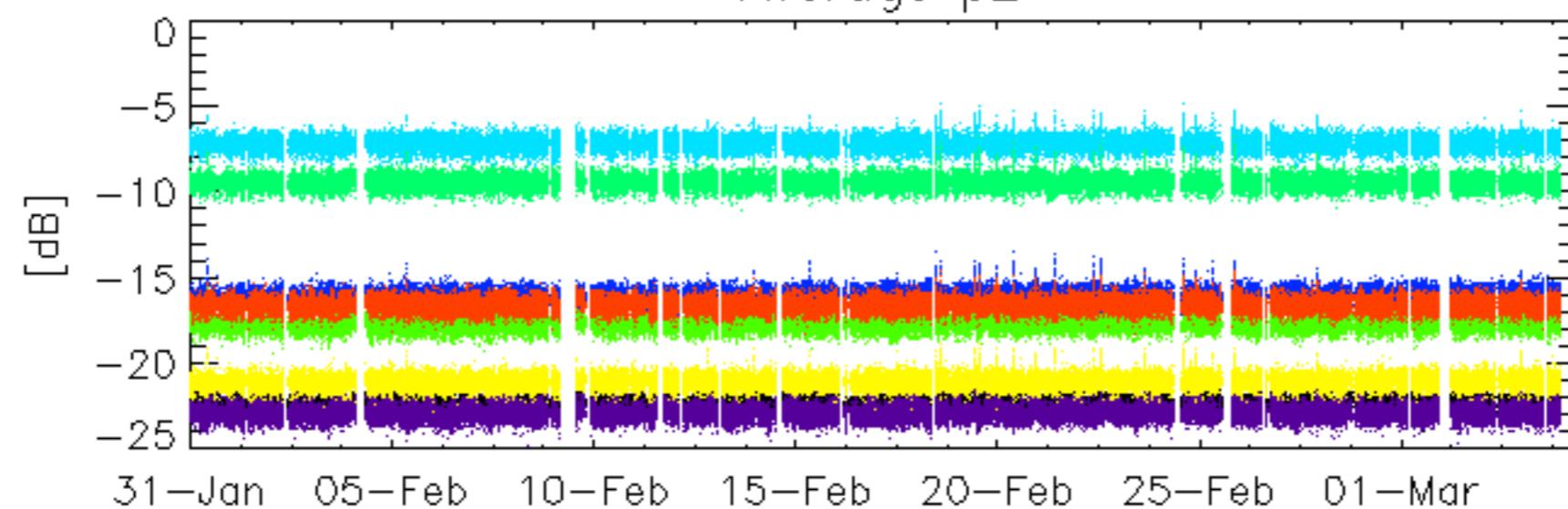
6.1 - Doppler evolution versus ANX

Evolution Doppler error versus ANX
☒

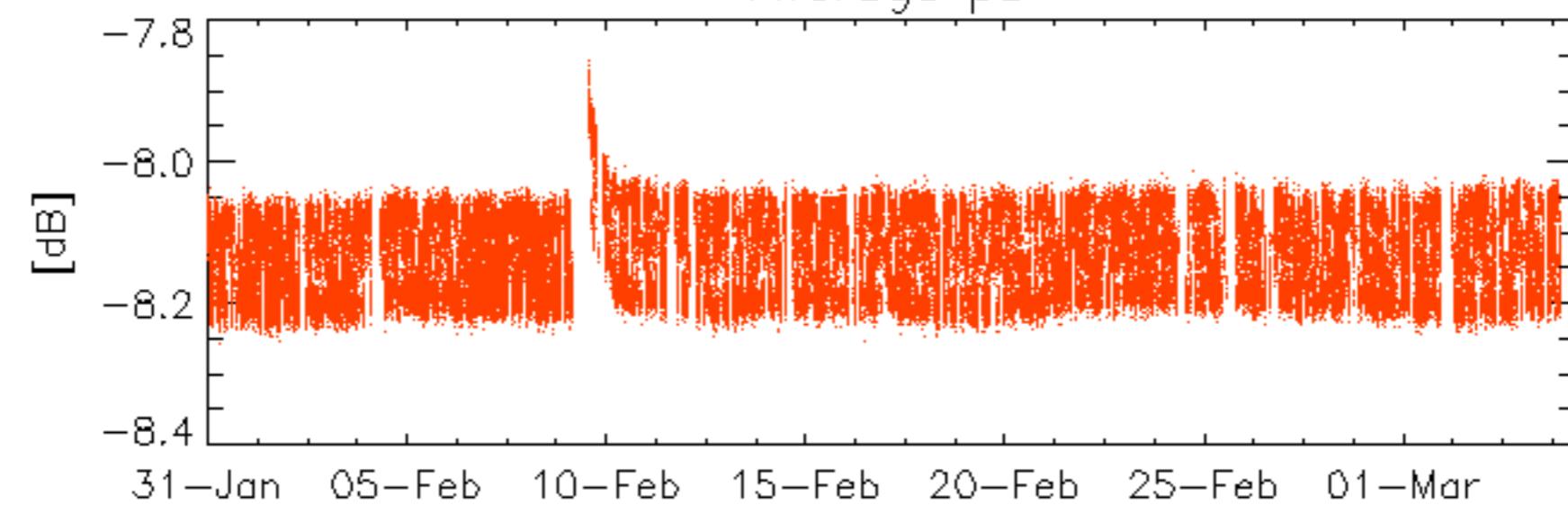
Average P1



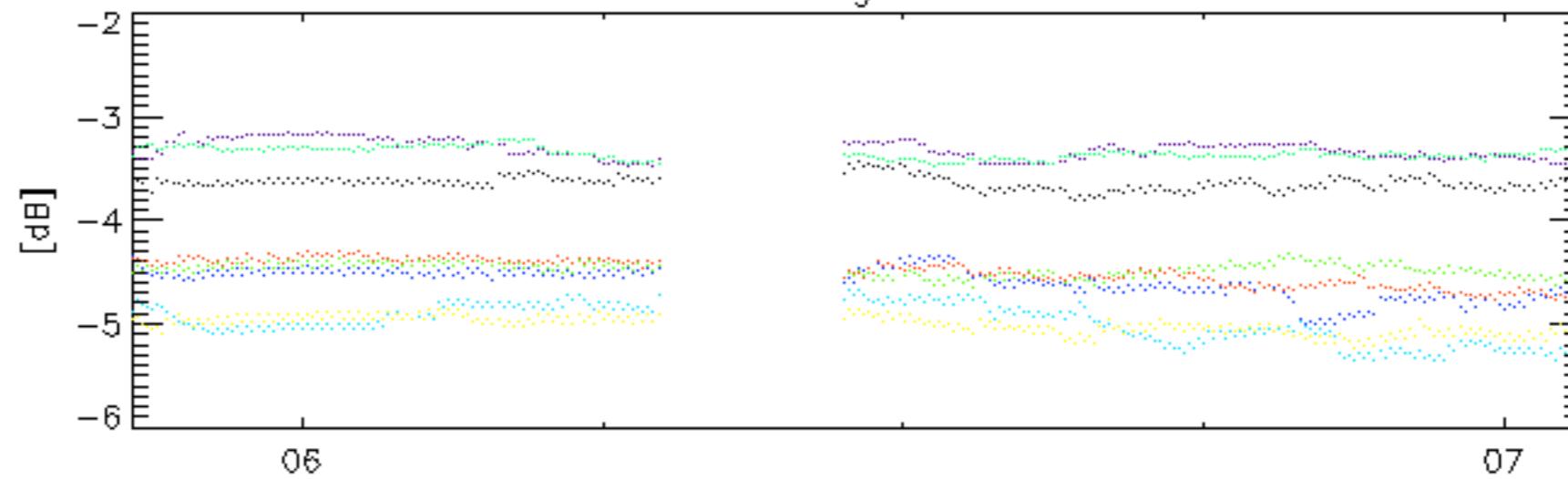
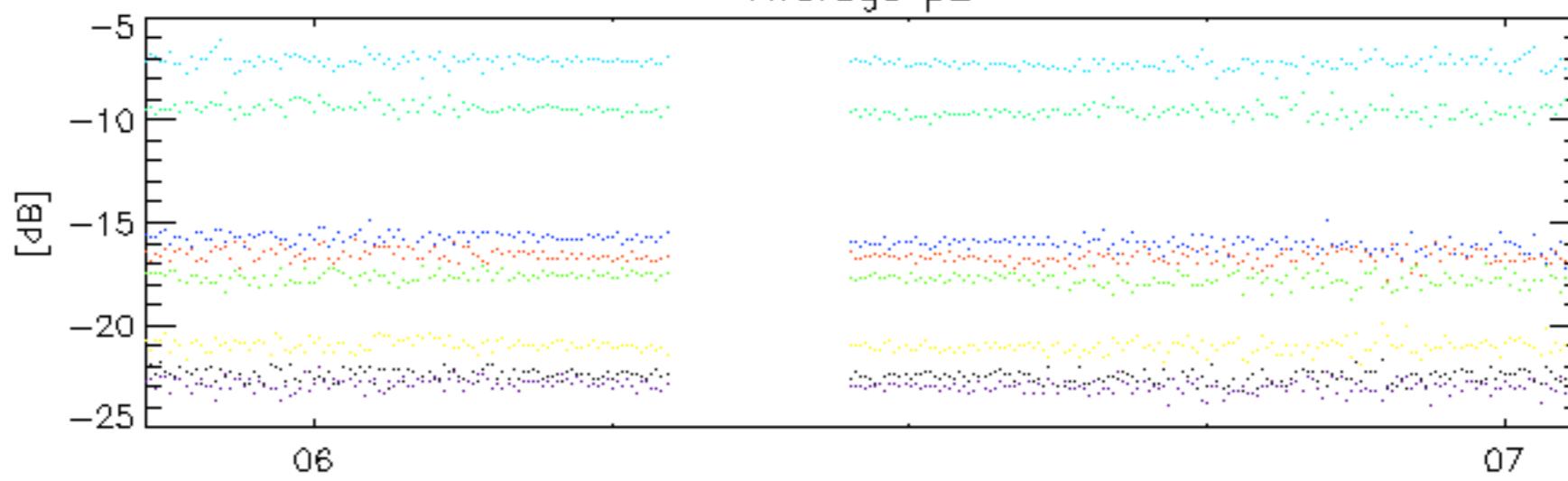
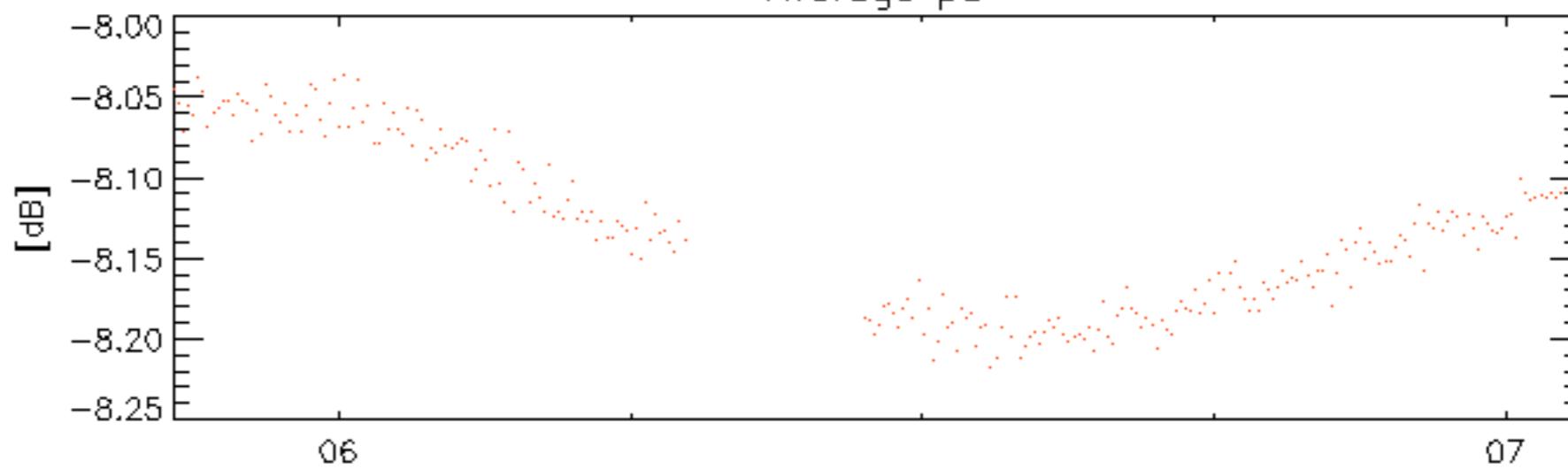
Average p2



Average p3



Average P1

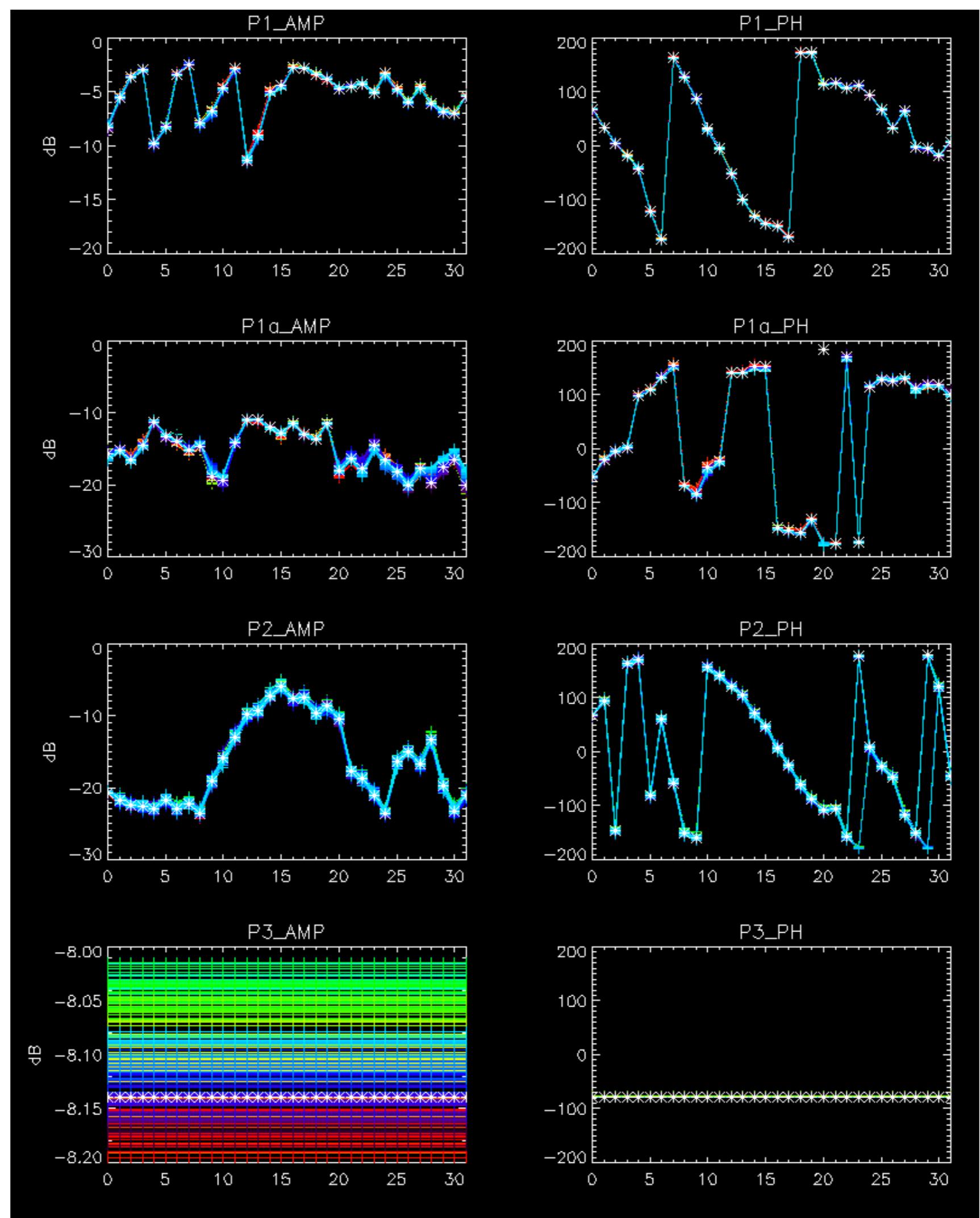
05-Mar
Average p205-Mar
Average p3

05-Mar

rows: **_3 _7 _11 _15 _19 _22 _24 _28**

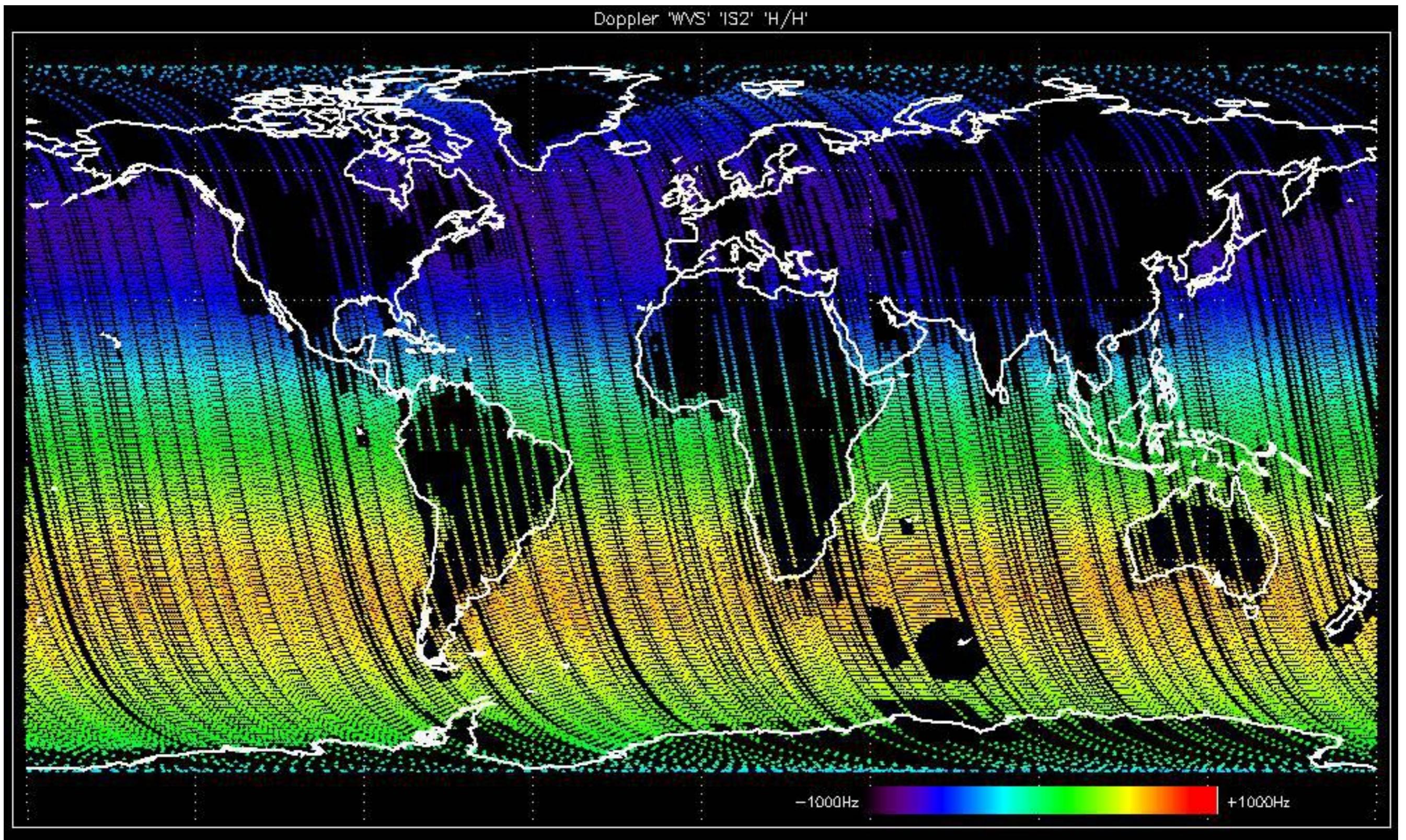
No anomalies observed.

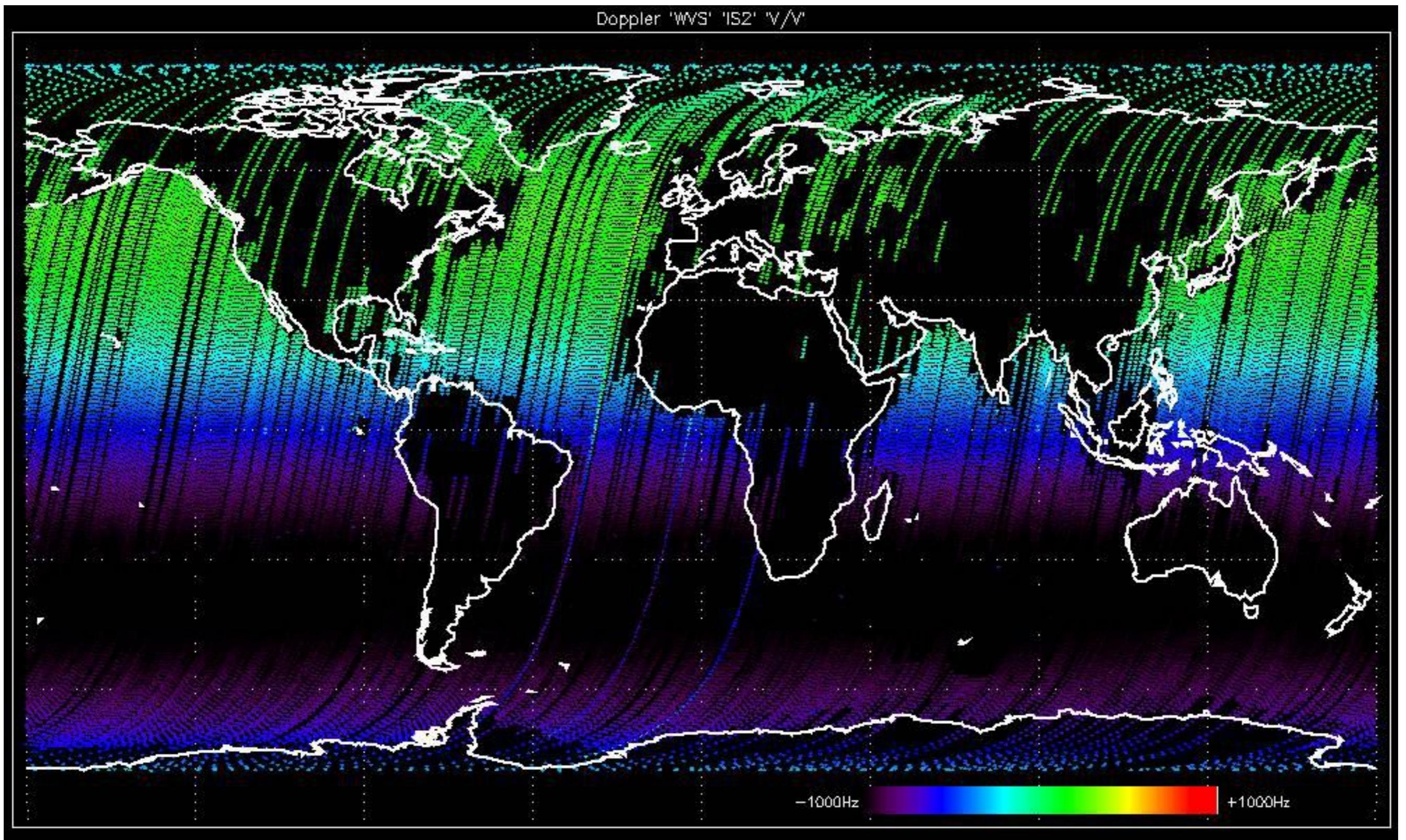


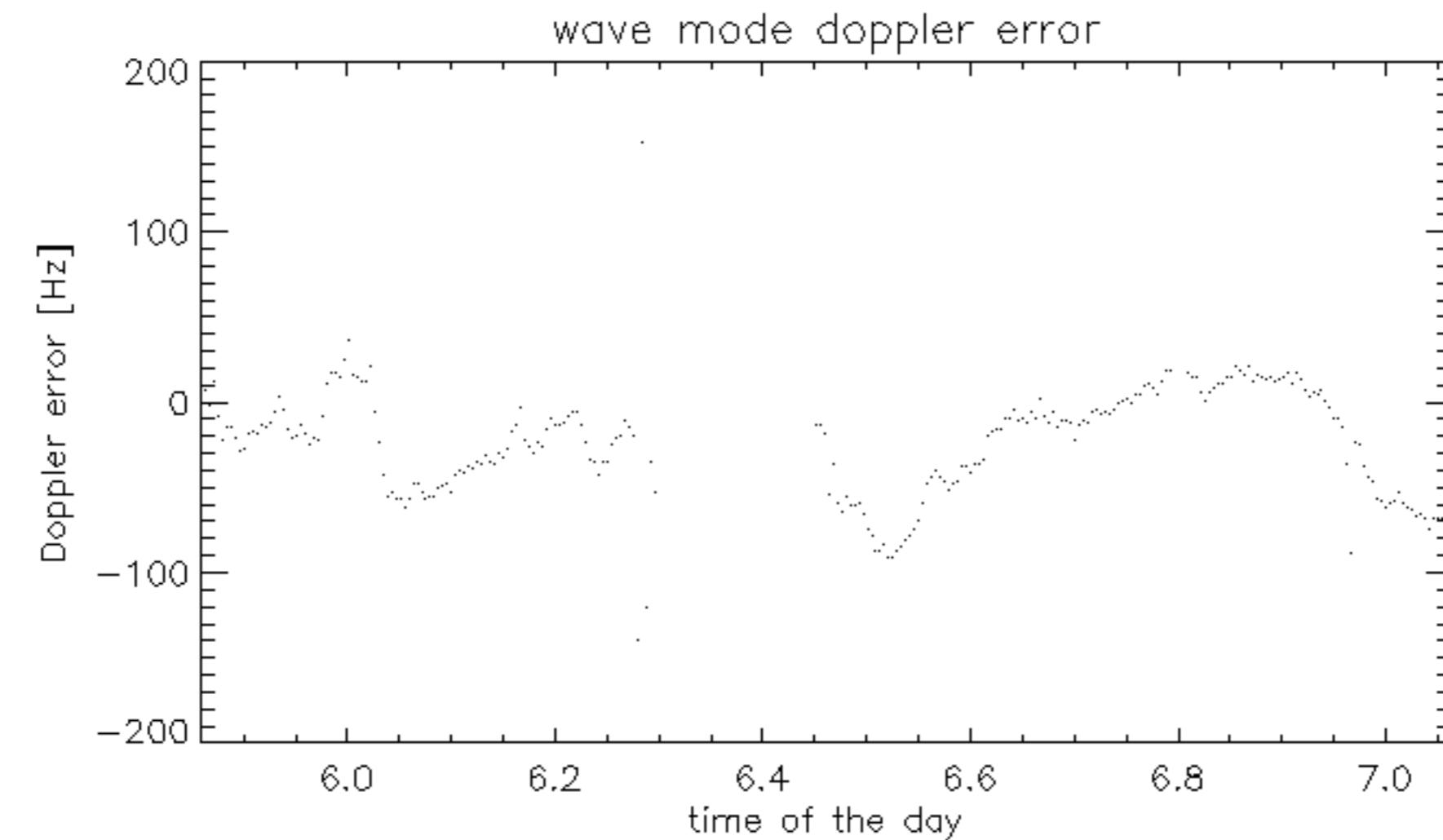
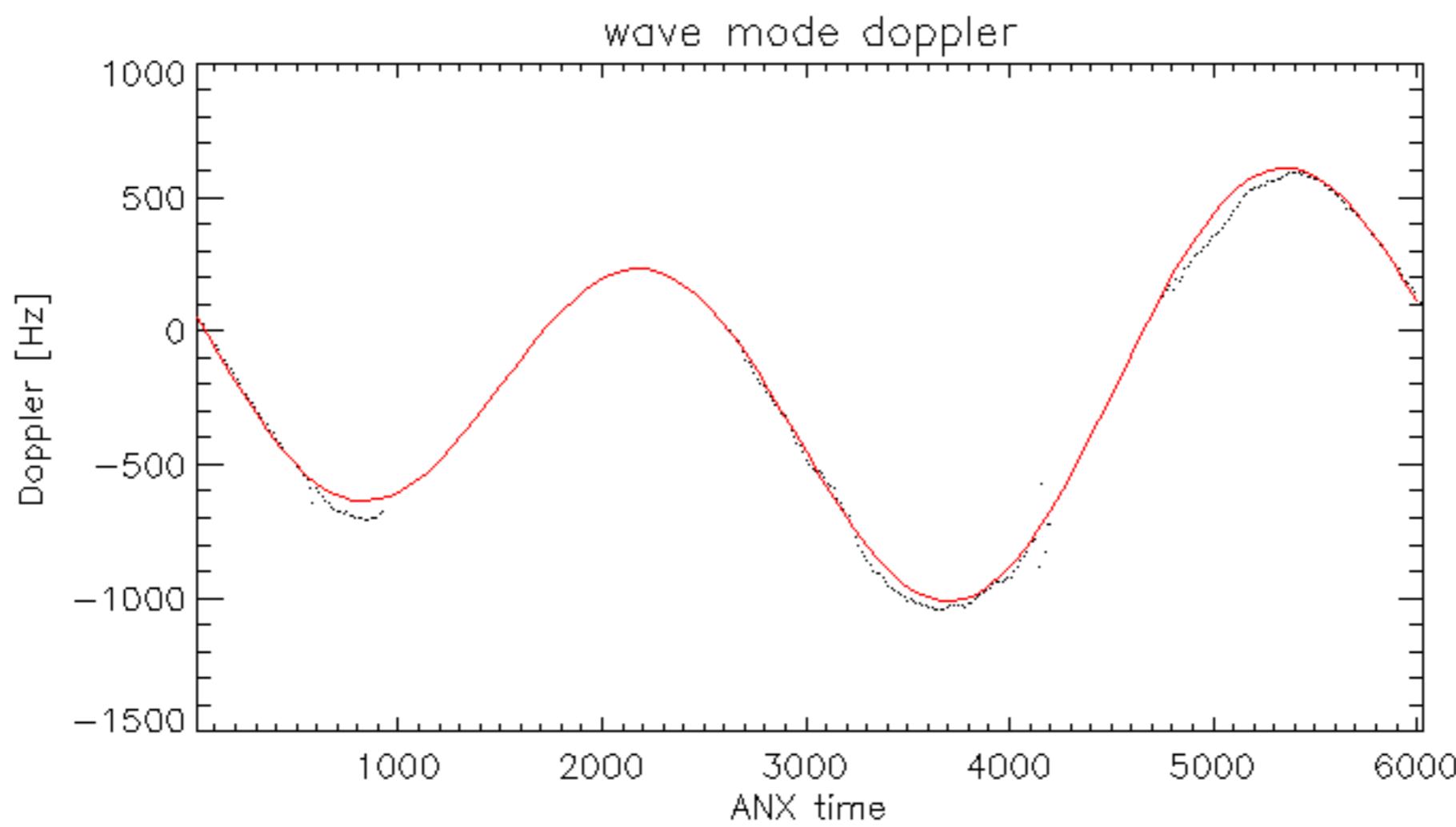


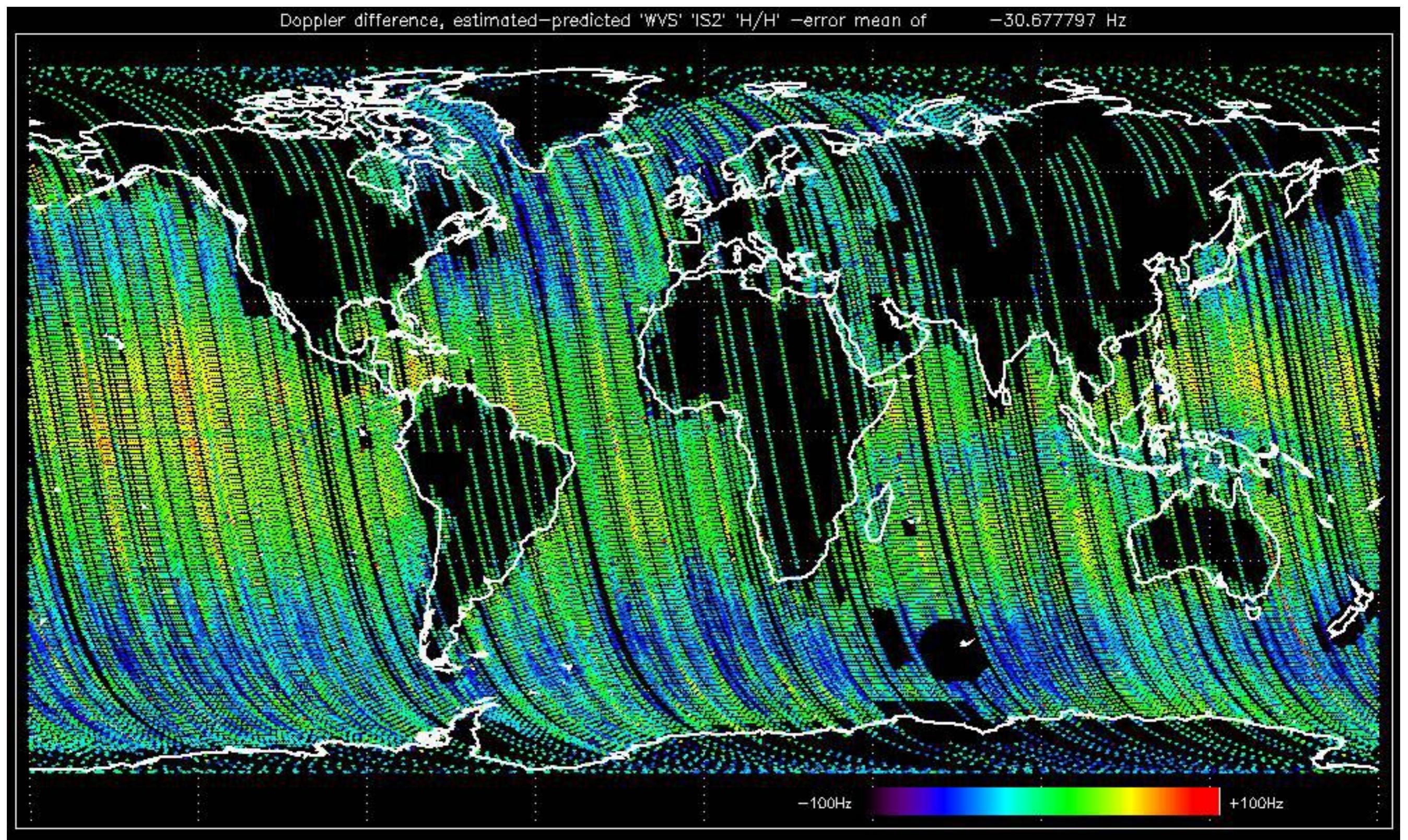
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

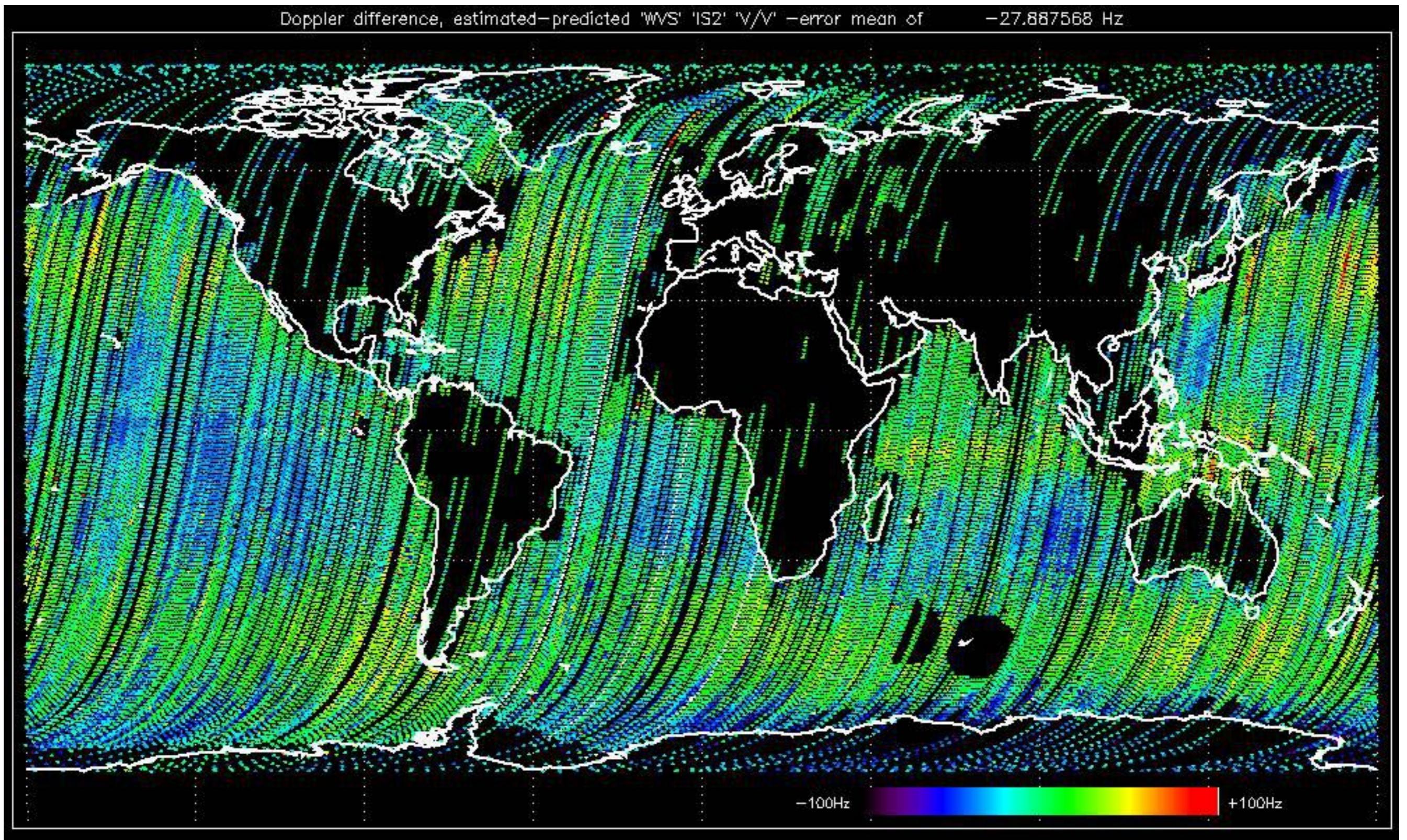












The MS mode provides an internal health check on an individual module basis.
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No anomalies observed.



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

RxGain

Test : 2004-03-04 20:24:19 H

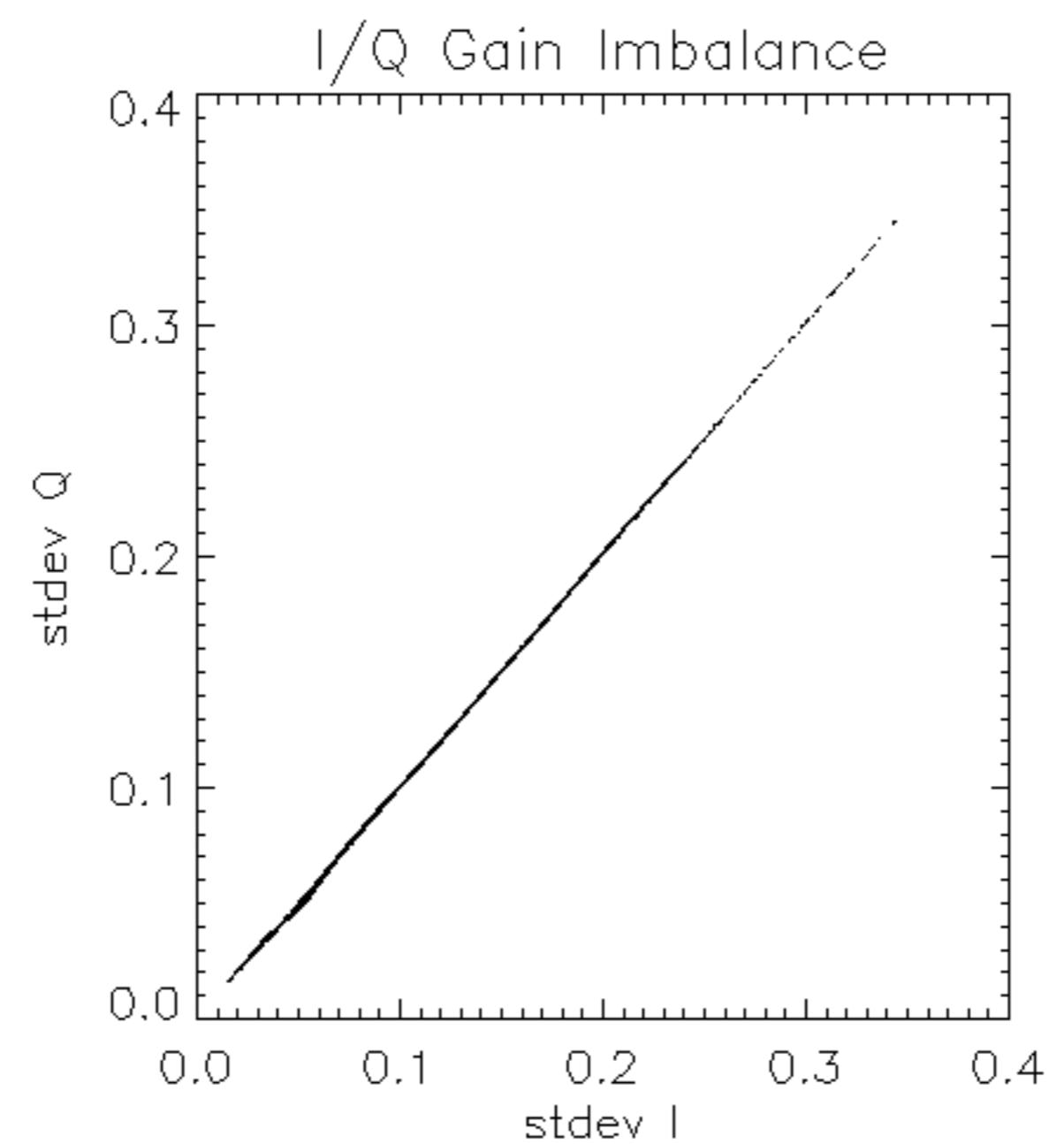
Reference: 2003-06-12 14:08:52 H RxGain

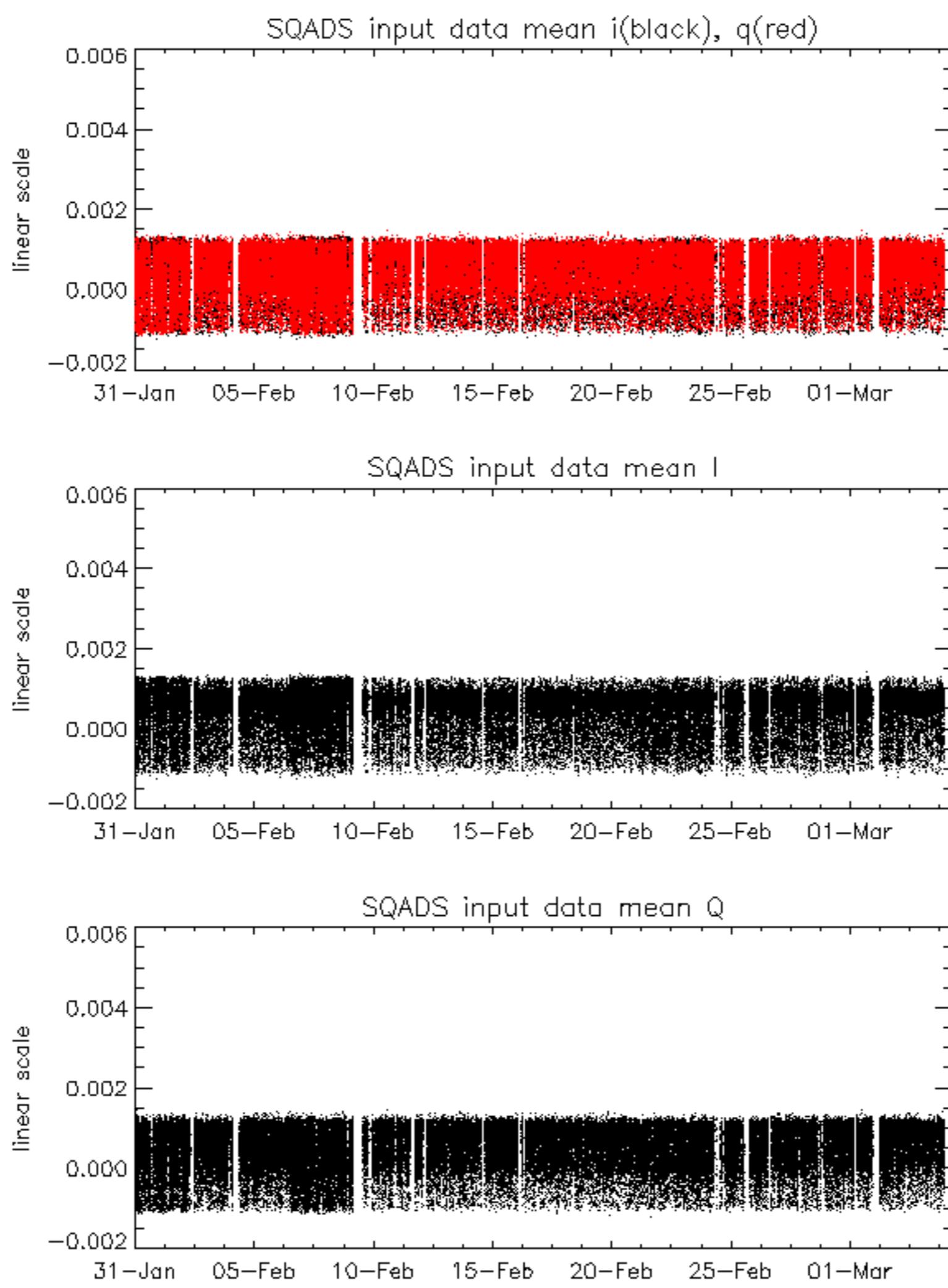
Test : 2004-03-04 20:24:19 H

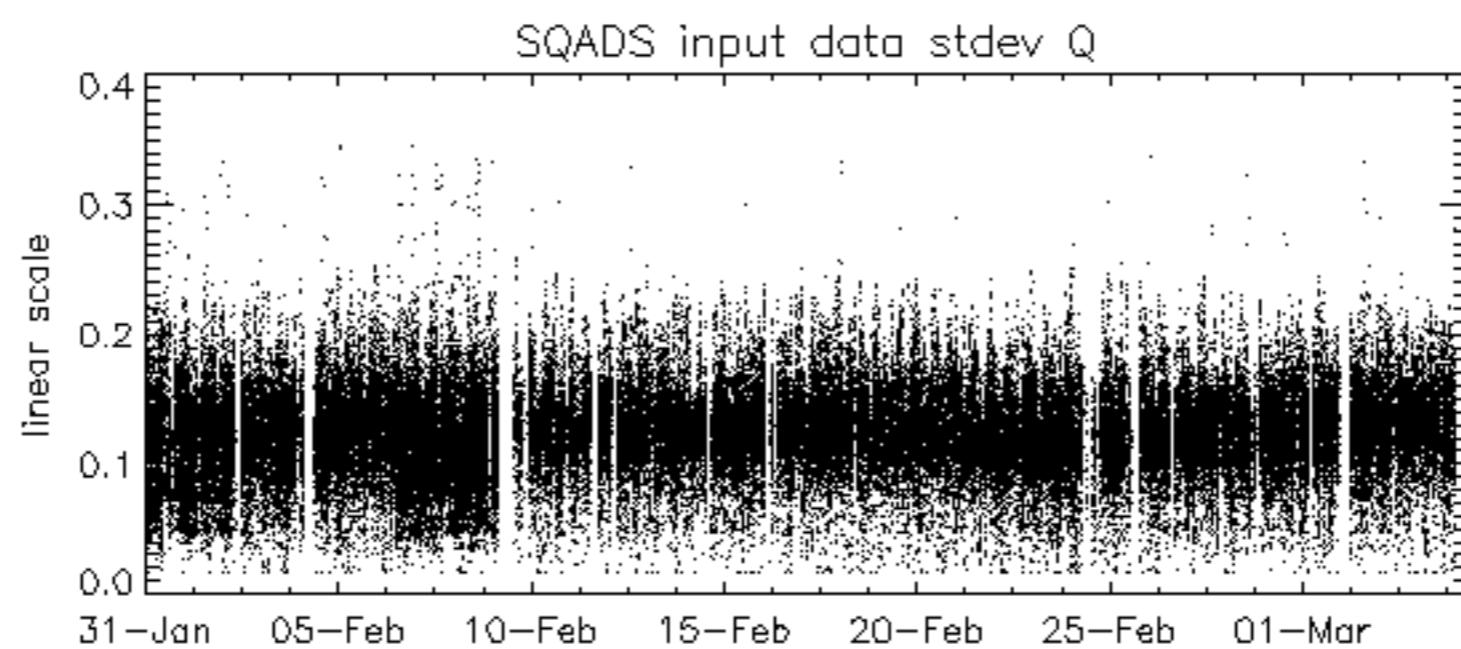
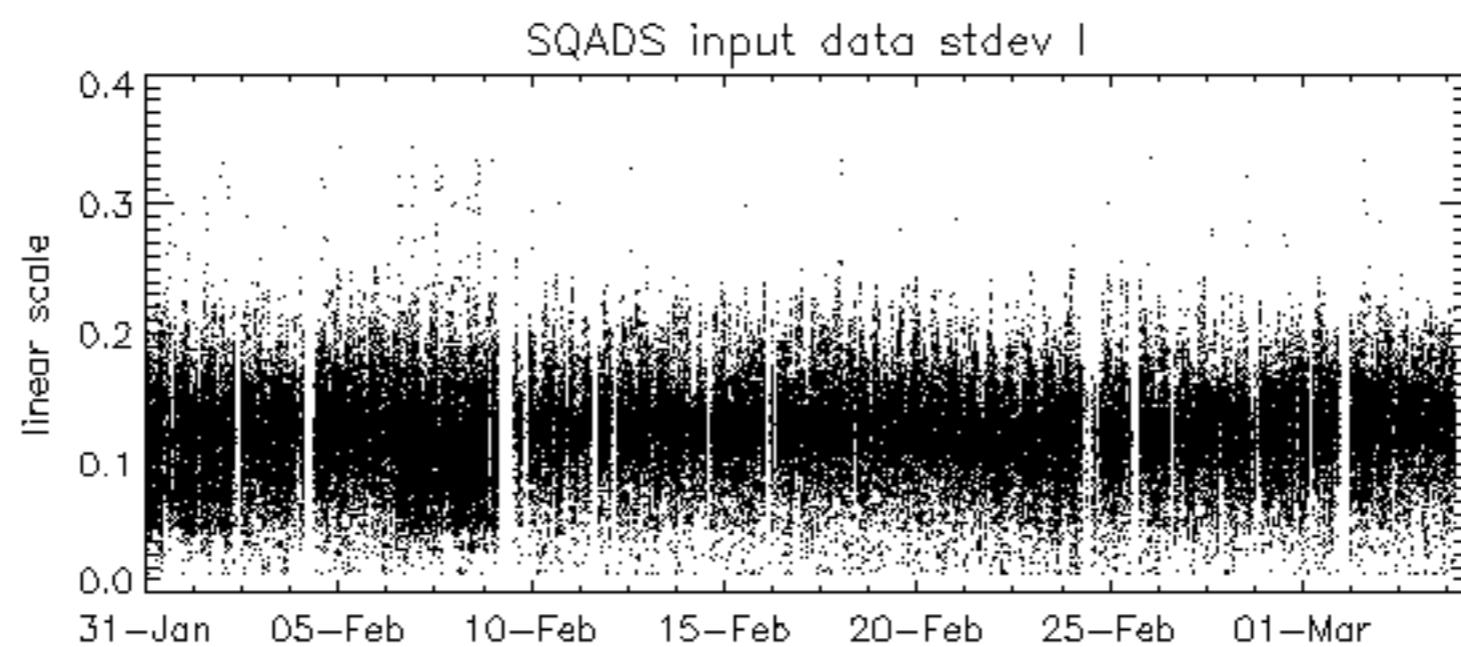
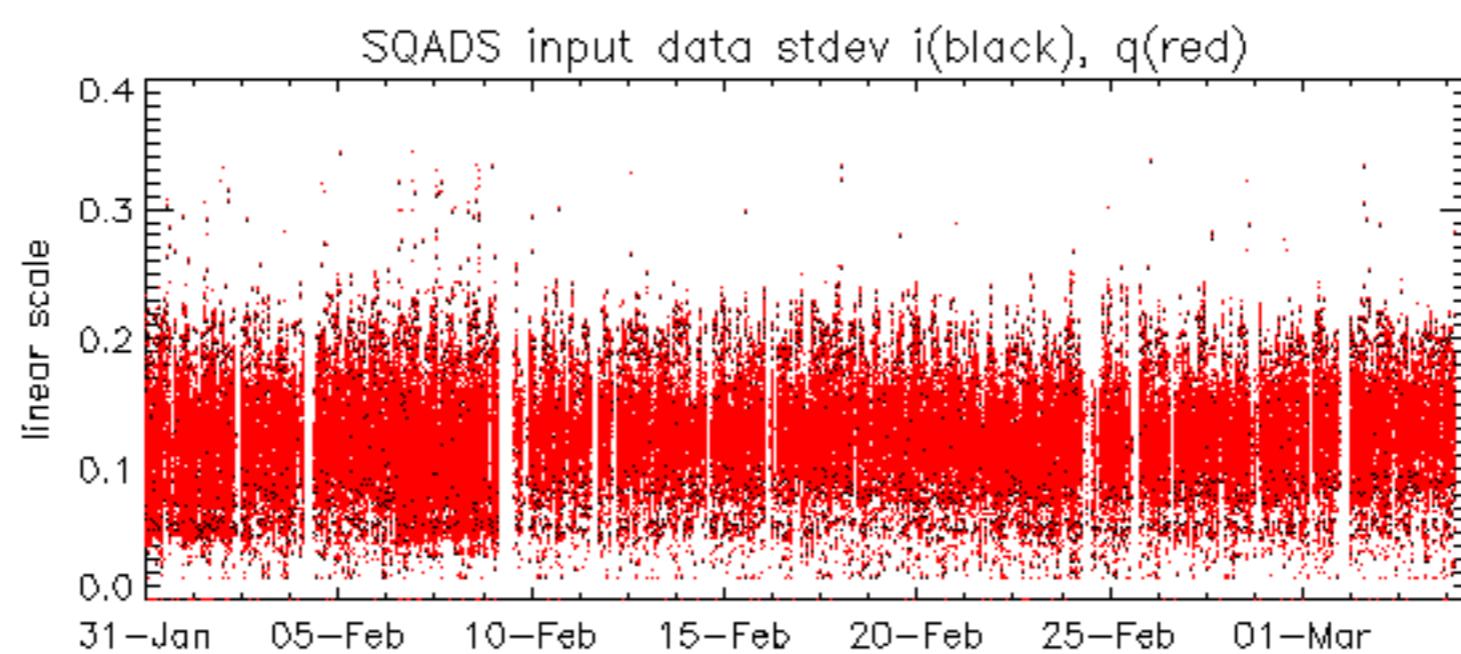
	A1	A3	B1	B3	C1	C3	D1	D3	E1	E3	
1	Yellow										1
2		Yellow									2
3			Yellow								3
4				Yellow							4
5					Yellow						5
6						Yellow					6
7							Yellow				7
8								Yellow			8
9									Yellow		9
10	Yellow										10
11		Yellow									11
12			Yellow								12
13				Yellow							13
14					Yellow						14
15						Yellow					15
16							Yellow				16
17								Yellow			17
18									Yellow		18
19										Yellow	19
20											20
21											21
22											22
23							Yellow				23
24								Yellow			24
25									Yellow		25
26										Yellow	26
27											27
28	Yellow										28
29		Yellow									29
30			Yellow								30
31				Yellow							31
32					Yellow						32

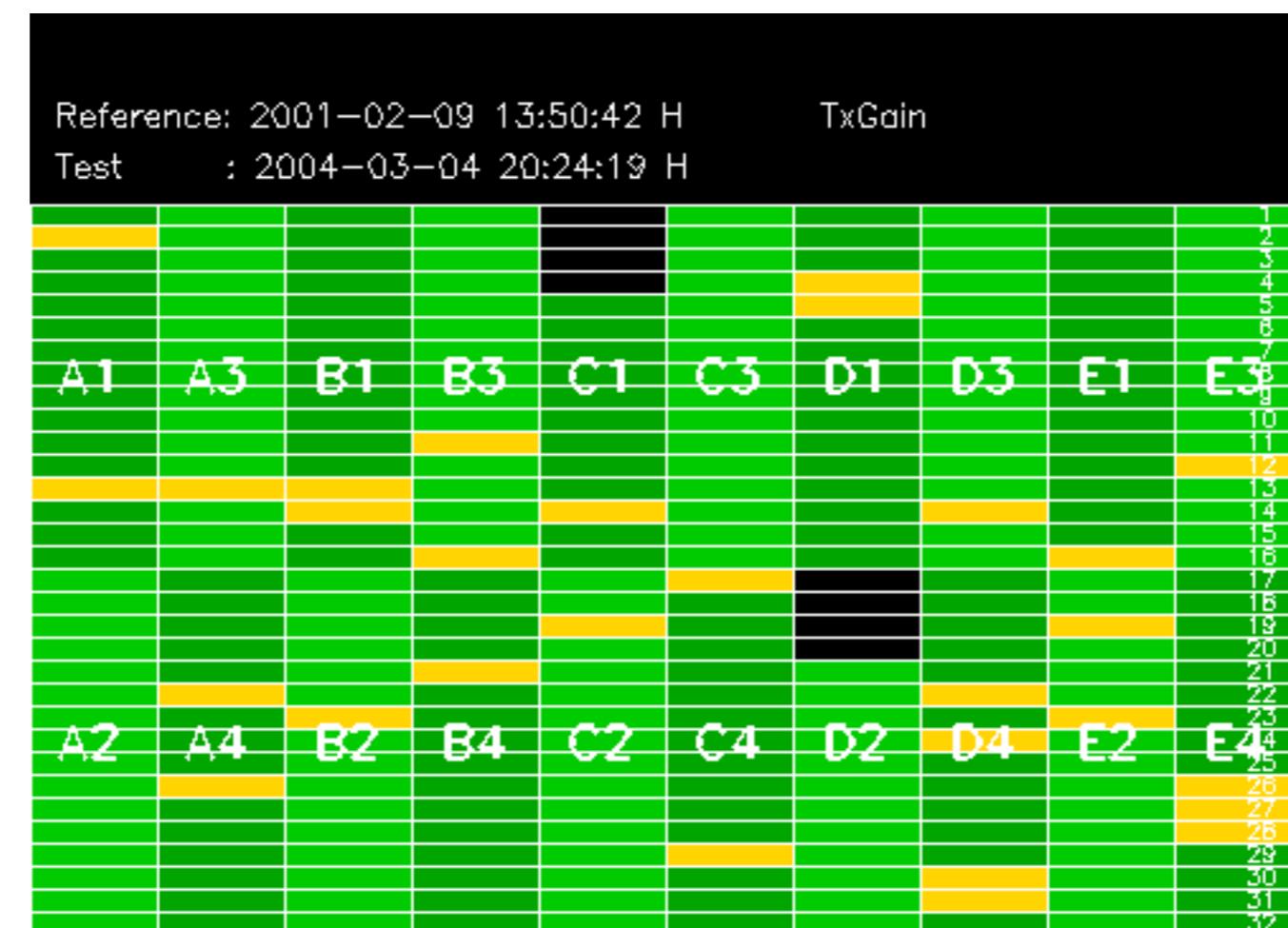
Reference:	2001-02-09 13:50:42 H	RxPhase
Test	: 2004-03-04 20:24:19 H	
		1
		2
		3
		4
		5
		6
		7
A1	A3	B1
B3	C1	C3
D1	D3	E1
E3		8
		9
		10
		11
		12
		13
		14
		15
		16
		17
		18
		19
		20
		21
		22
A2	A4	B2
B4	C2	C4
D2	D4	E2
E4		23
		24
		25
		26
		27
		28
		29
		30
		31
		32

Reference:	2003-06-12 14:10:32 V	RxPhase							
Test	: 2004-03-05 19:54:03 V								
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 : 2004-03-04 20:24:19 H

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

Test : 2004-03-05 19:54:03 V

No unavailabilities during the reported period.

