

REPORT OF 031203

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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

ASAR unavailability began on 03-DEC-2003 07:18:43

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

The MS mode provides an internal health check on an individual module basis.
 The purpose of this mode is to identify 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	20031202 204841
H	20031202 204721

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"/>
<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"/>
<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			
	stdev			

24	mean			
	stdev			

✗

4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.76546	-22.5649	-8.15962
	stdev	0.00636707	0.0672242	0.00339902
24	mean	-5.13224	-21.2509	-8.15962
	stdev	0.0131504	0.0606396	0.00339902

✗

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	0.000333362
	stdev	1.00129e-05
MEAN Q	mean	0.000159862
	stdev	1.00070e-05

✗

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.113089
	stdev	0.00155075

STDEV Q	mean	0.113344
	stdev	0.00156743

☒

5.3 - Gain imbalance I/Q

☒

6 - Wave Doppler Analysis

No anomalies observed Doppler evolution.

Doppler analysis performed over the last 35 days

6.1 - Unbiased Doppler Error

Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

6.2 - Absolute Doppler

Evolution of Absolute Doppler

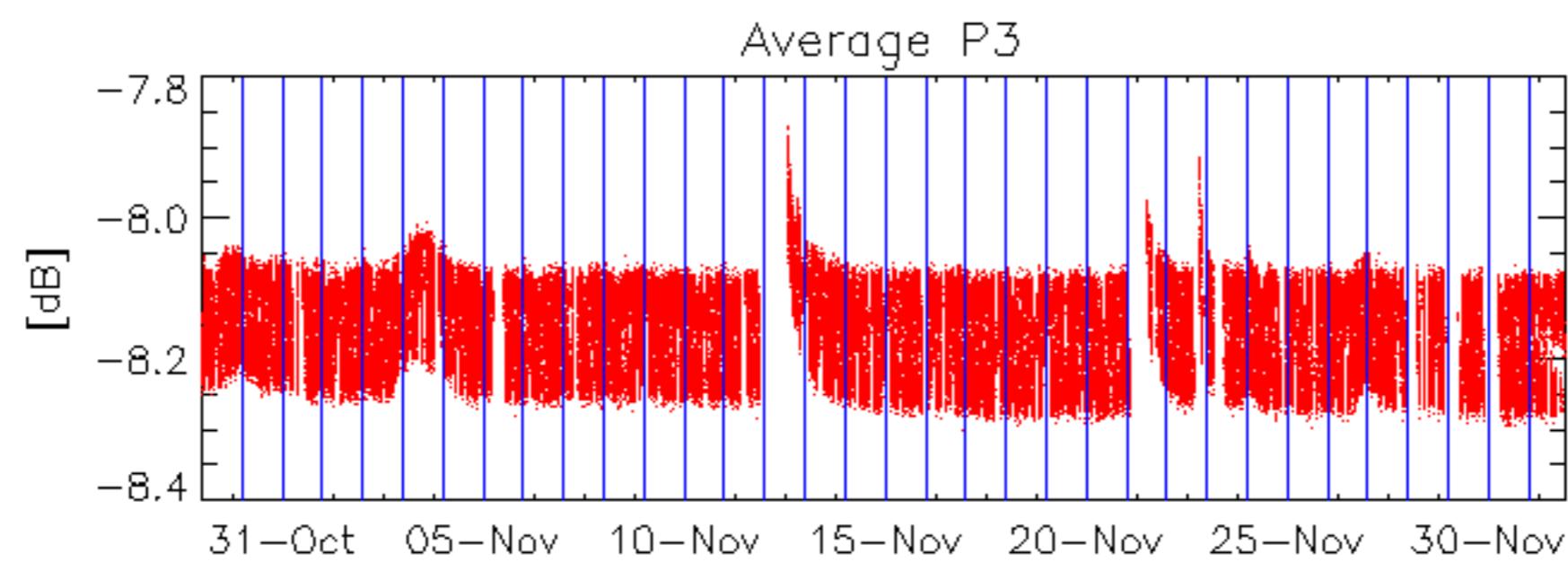
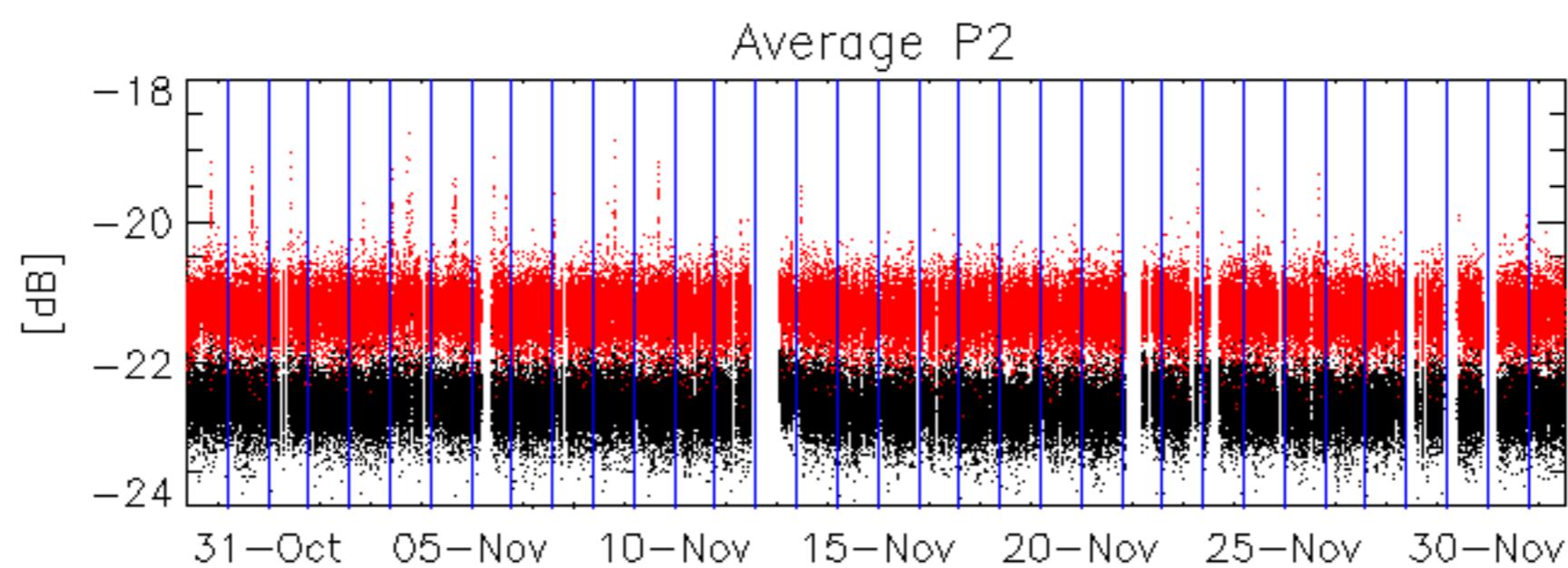
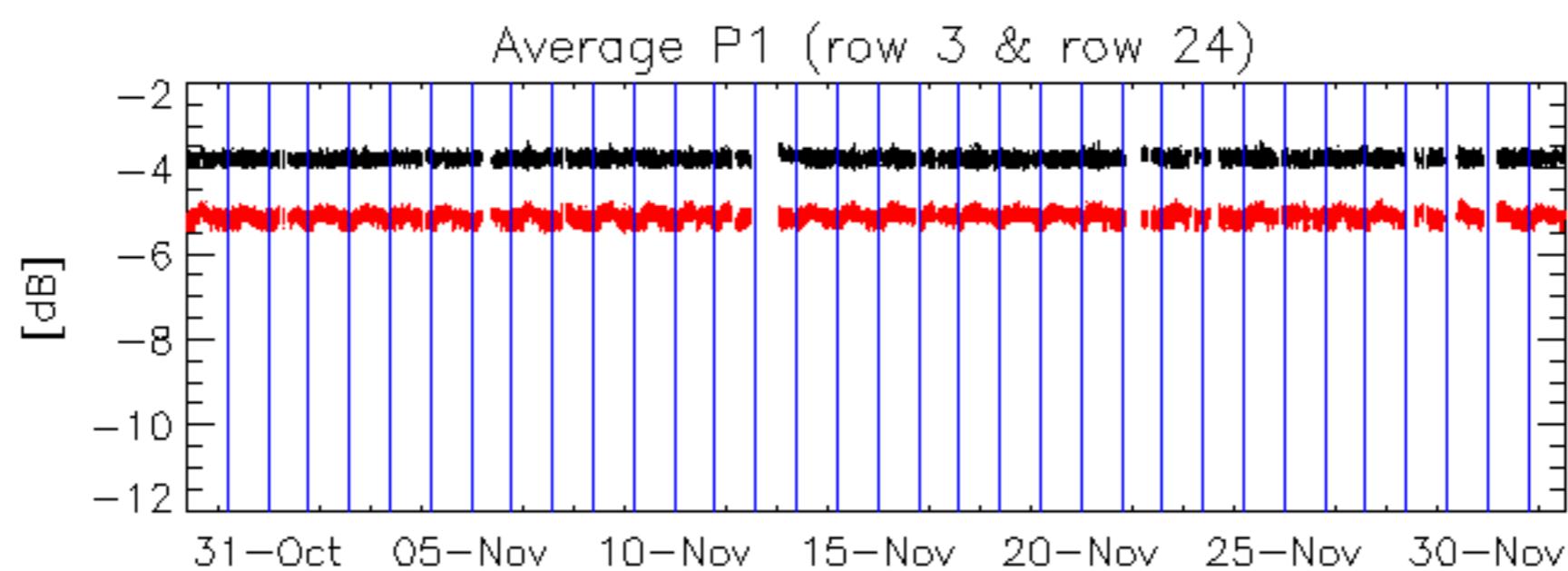
Acsending

Descending

6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX

☒



No anomalies observed on available browse products



No anomalies observed.

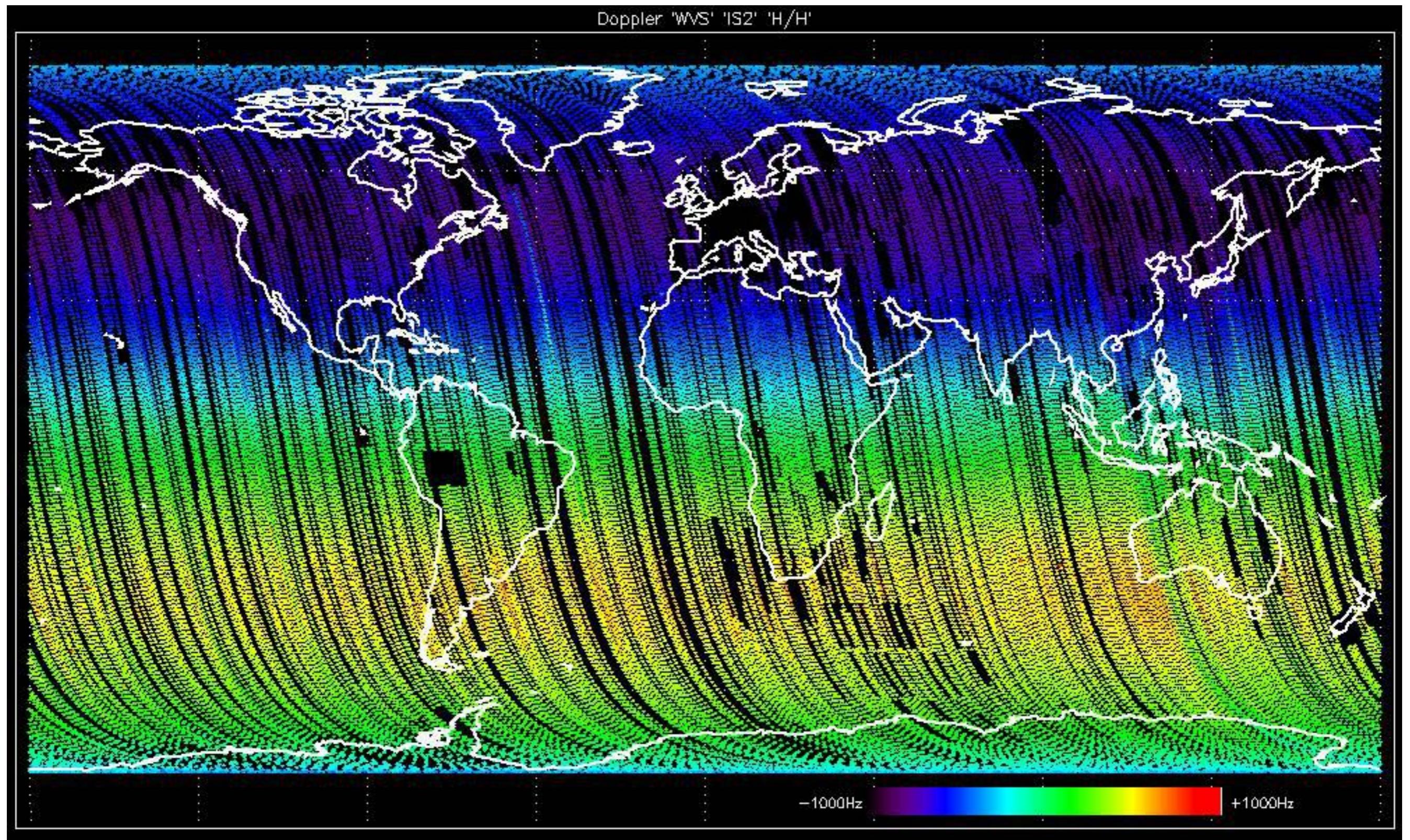


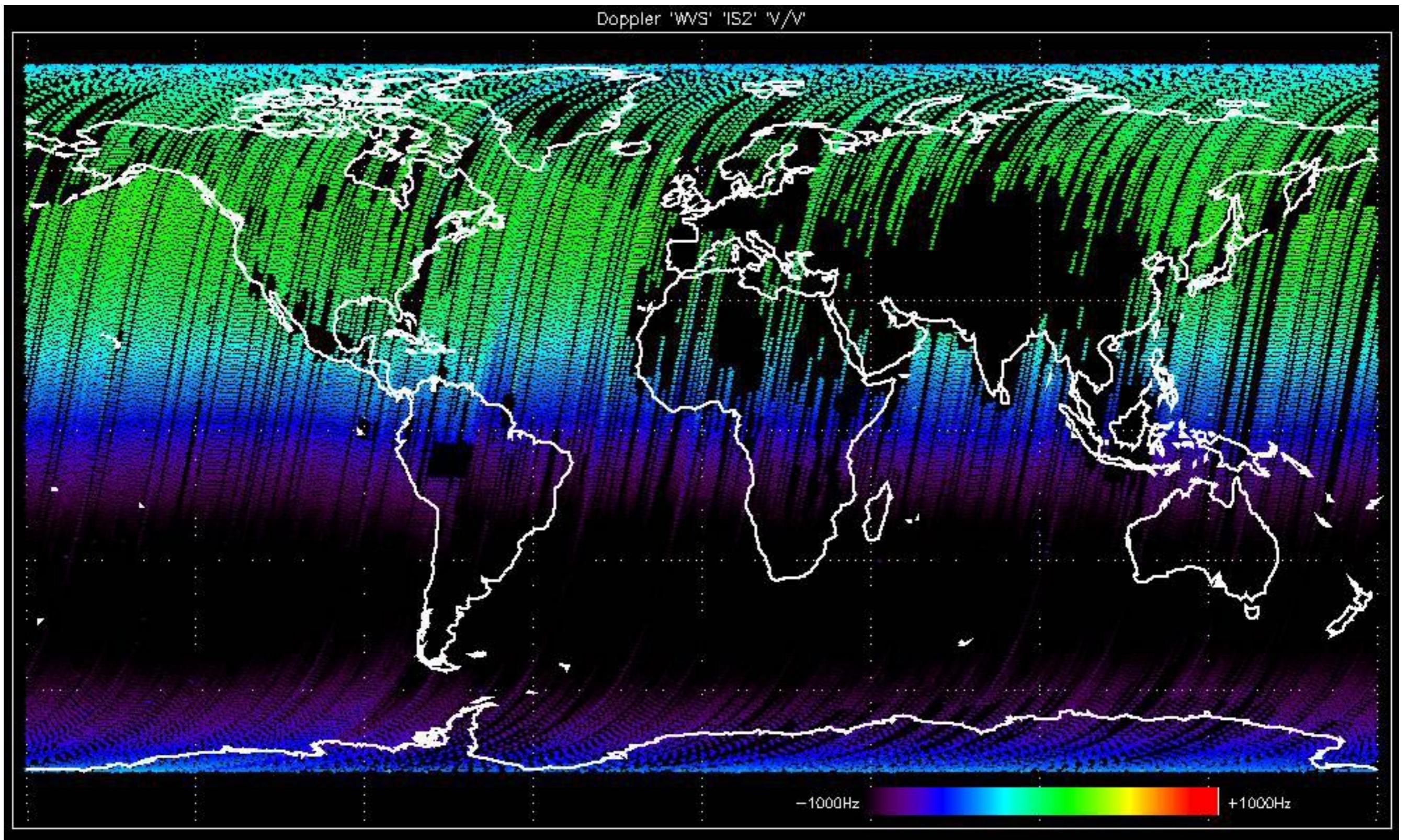
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

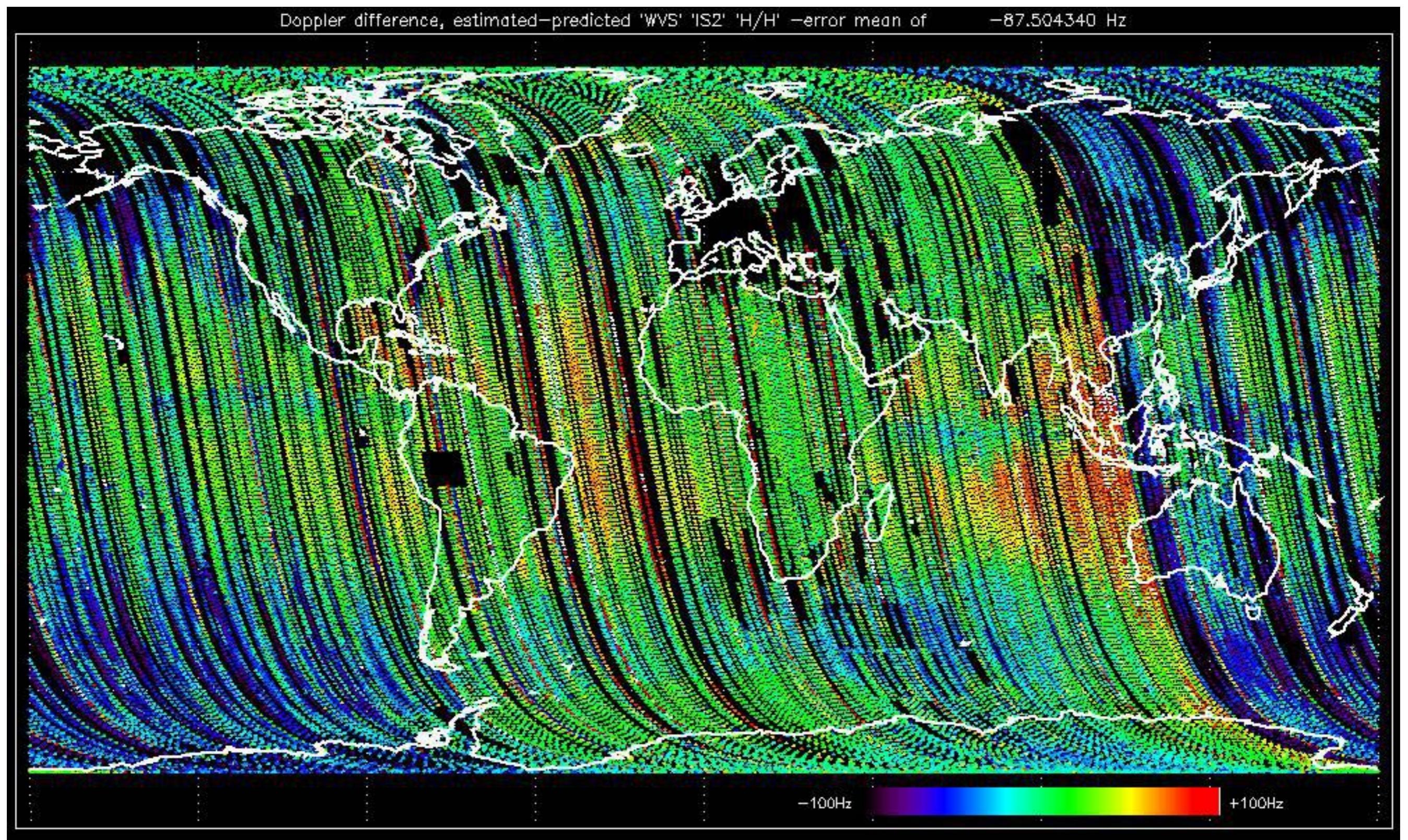


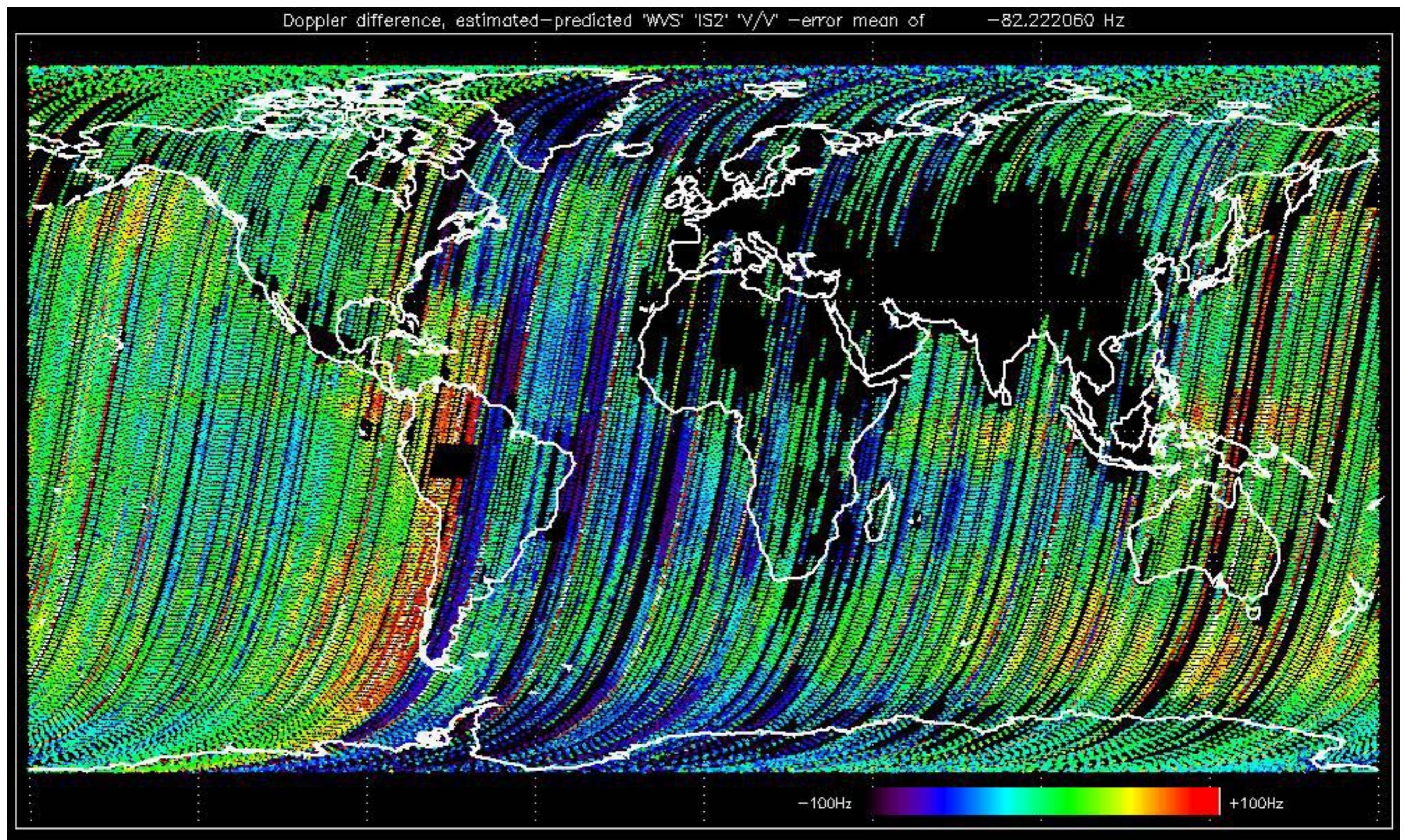
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 35 days











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to identify modules for which calibration offsets are to be applied.
No anomalies observed on available MS products:

No anomalies observed.

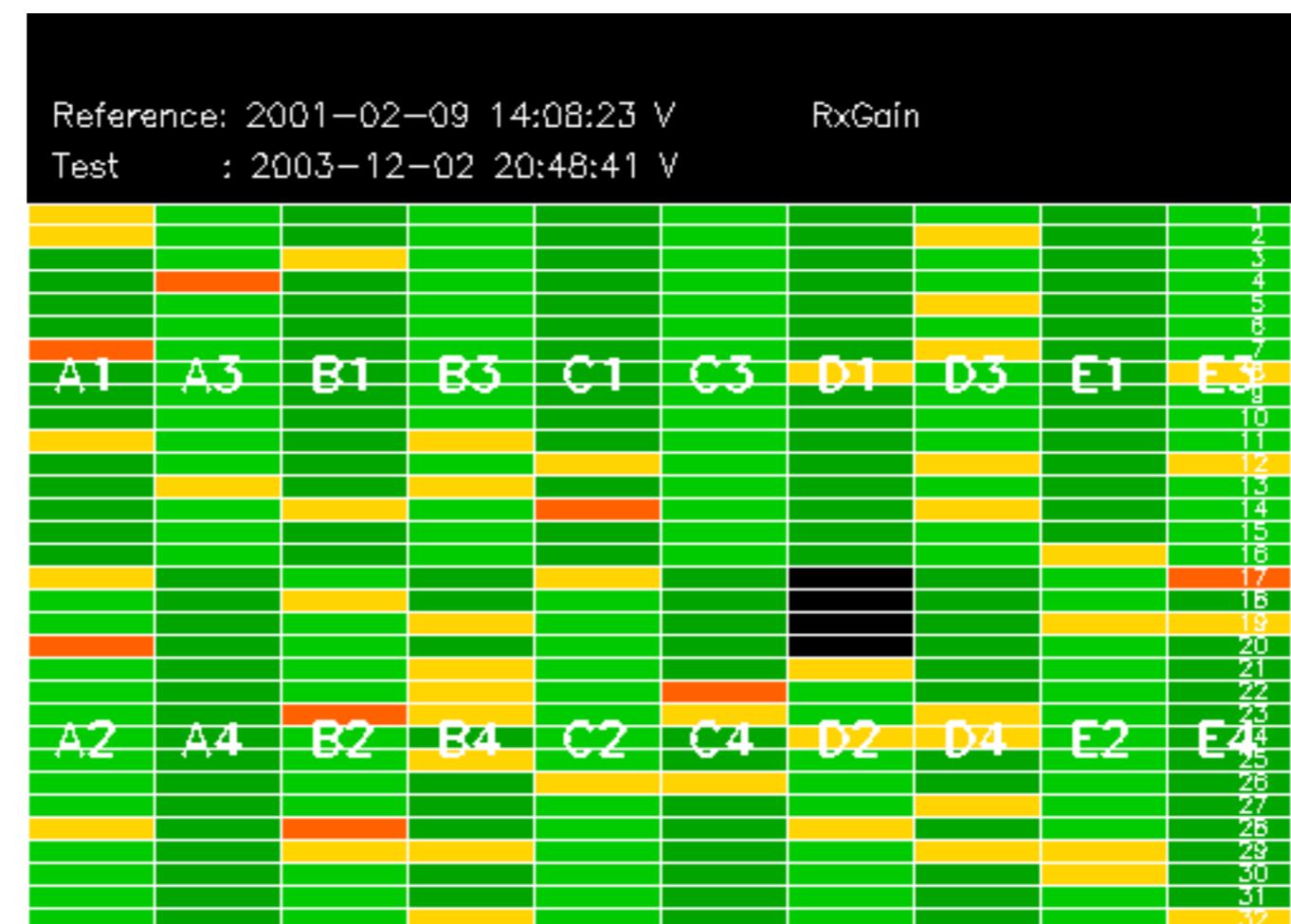


Reference: 2001-02-09 13:50:42 H RxGain

Test : 2003-12-02 20:47:21 H

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

Test : 2003-12-02 20:47:21 H

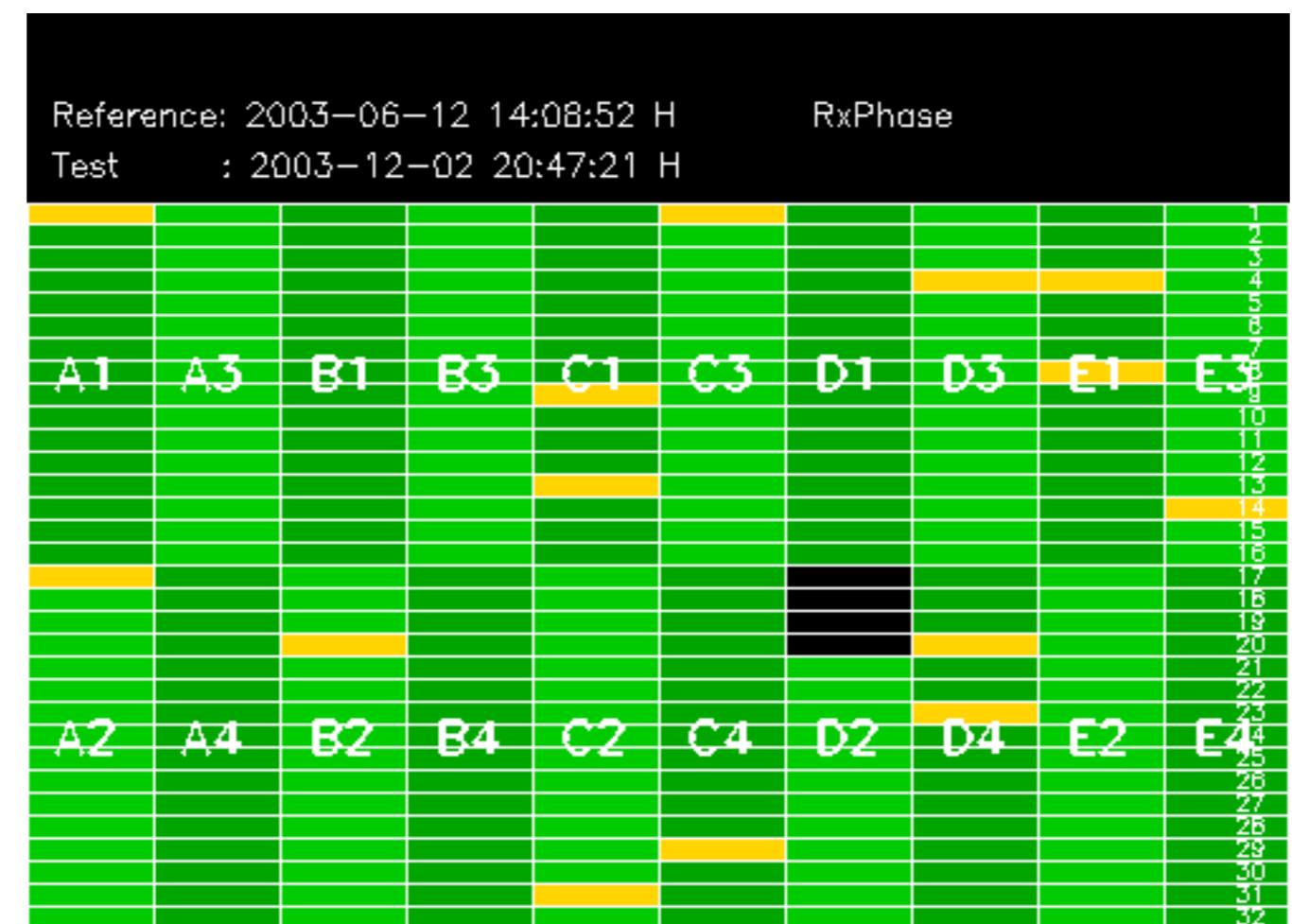


Reference: 2003-06-12 14:10:32 V

RxGain

Test : 2003-12-02 20:48:41 V

Reference: 2001-02-09 13:50:42 H	RxPhase
Test : 2003-12-02 20:47:21 H	
	1
	2
	3
	4
	5
	6
	7
A1	8
A3	9
B1	10
B3	11
C1	12
C3	13
D1	14
D3	15
E1	16
E3	17
	18
	19
	20
	21
	22
	23
A2	24
A4	25
B2	26
B4	27
C2	28
C4	29
D2	30
D4	31
E2	32
E4	

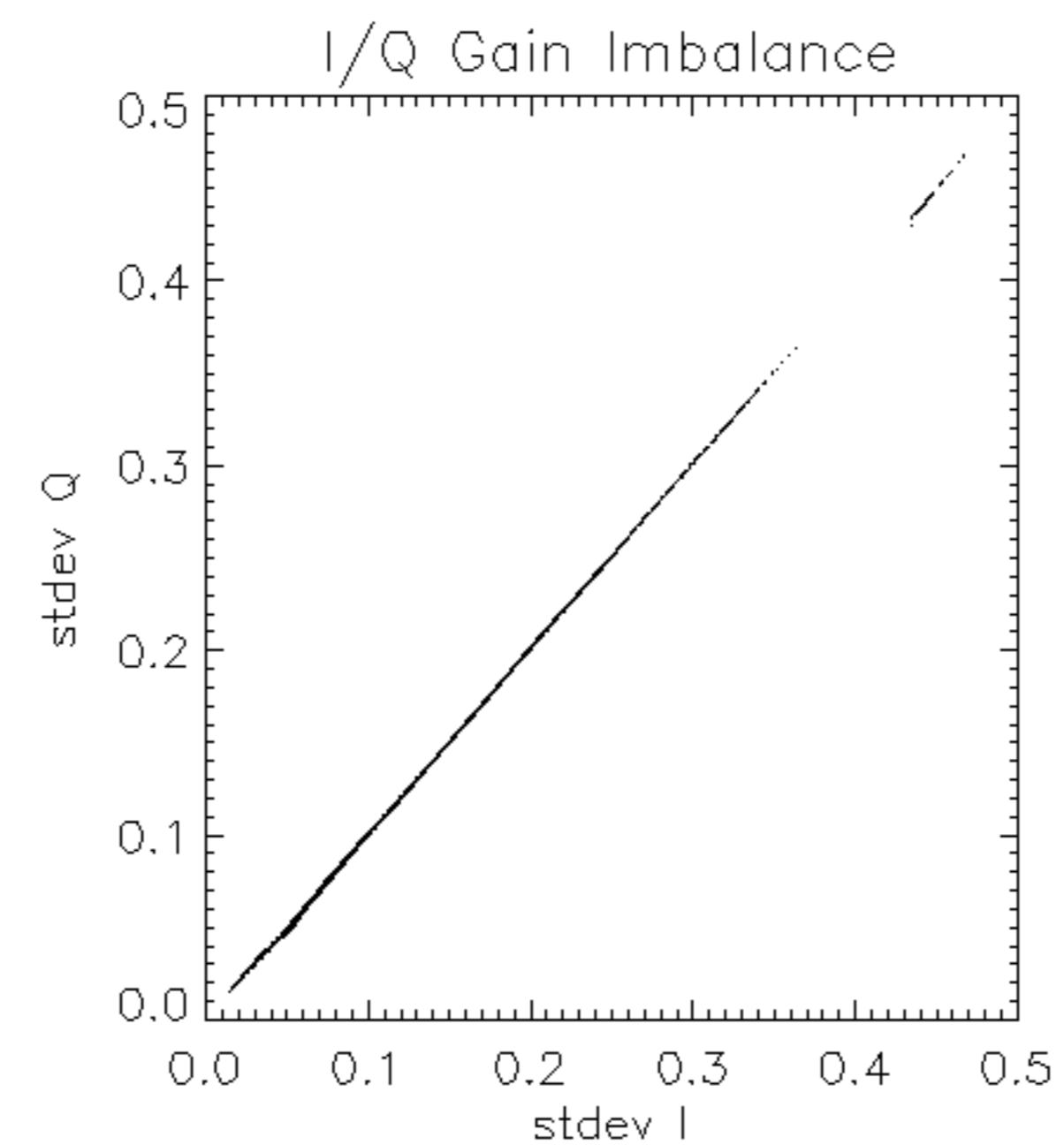


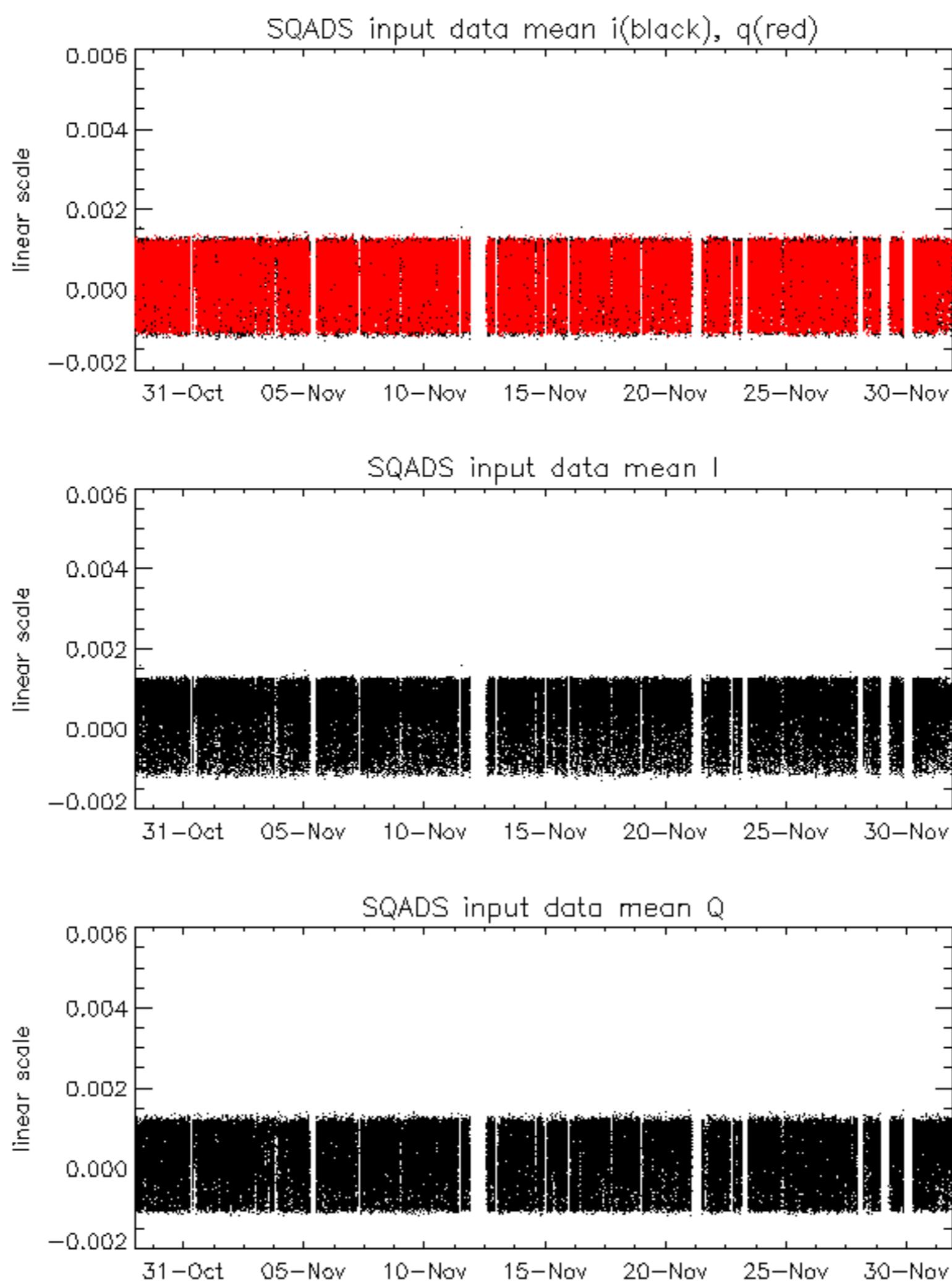
Reference: 2001-02-09 14:08:23 V RxPhase

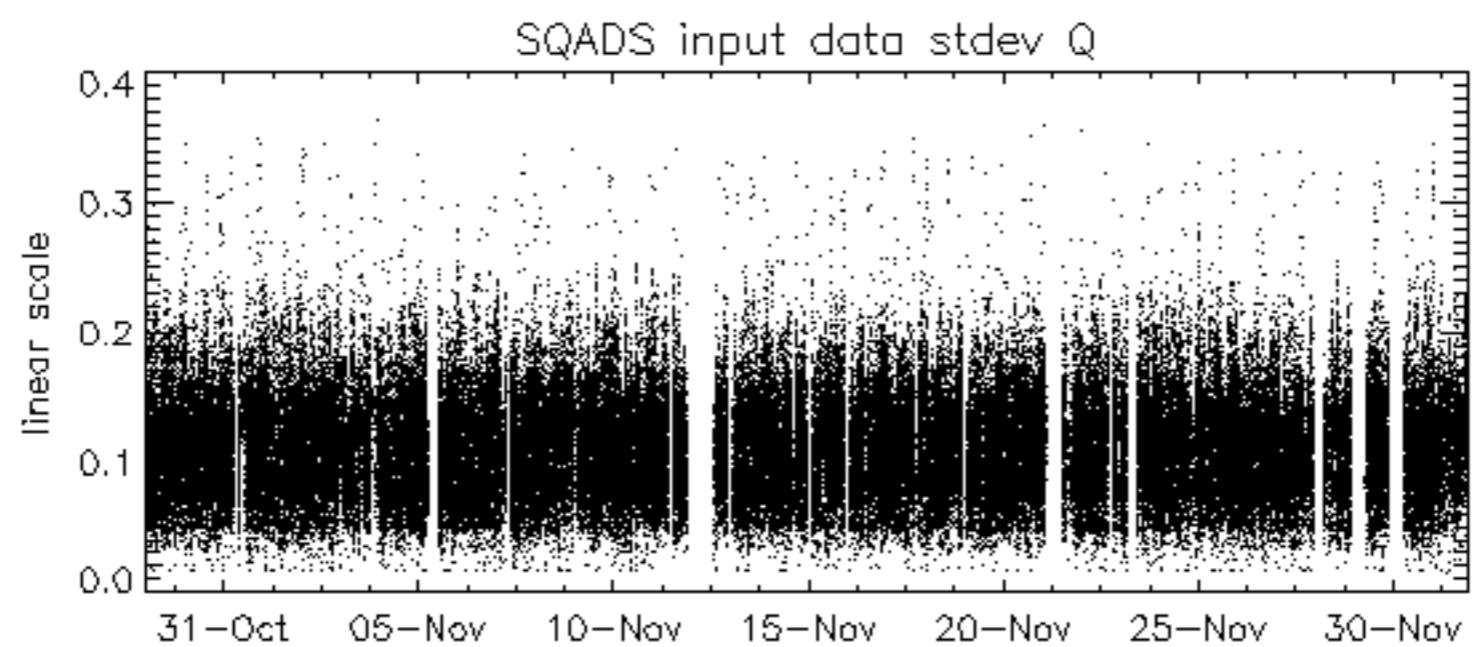
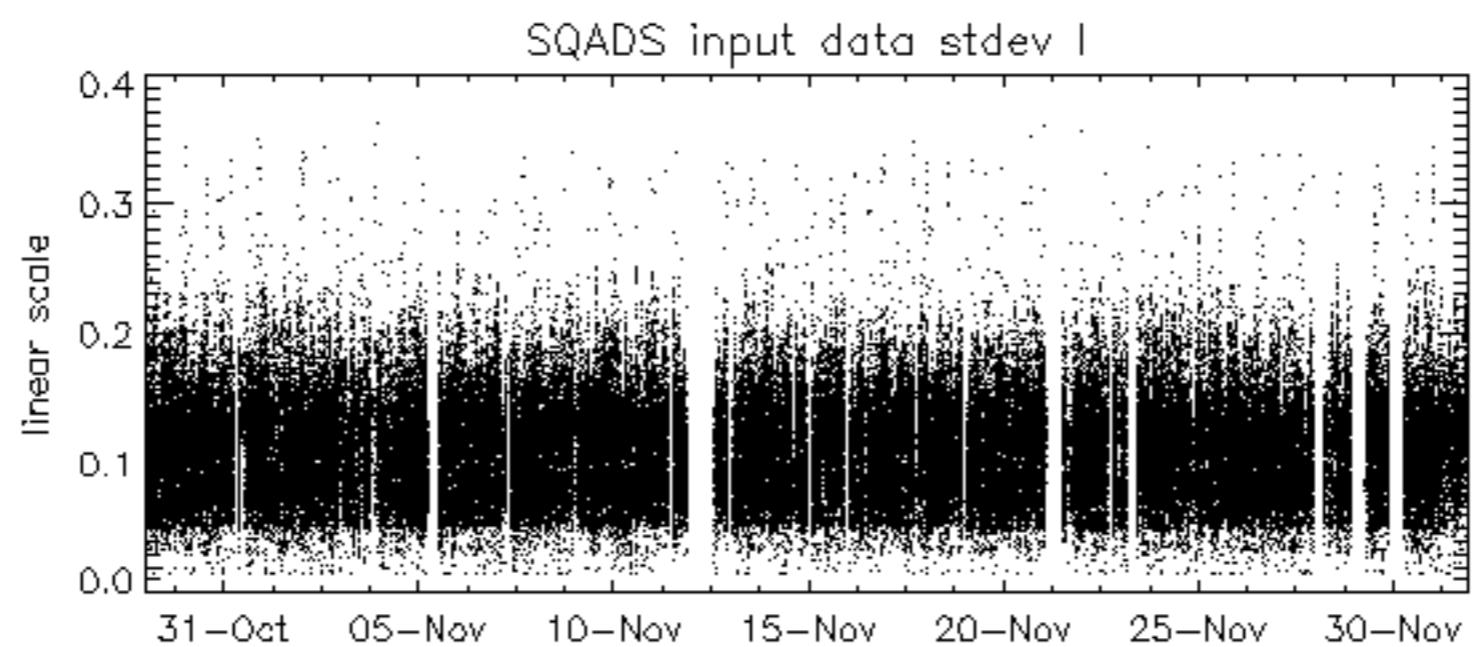
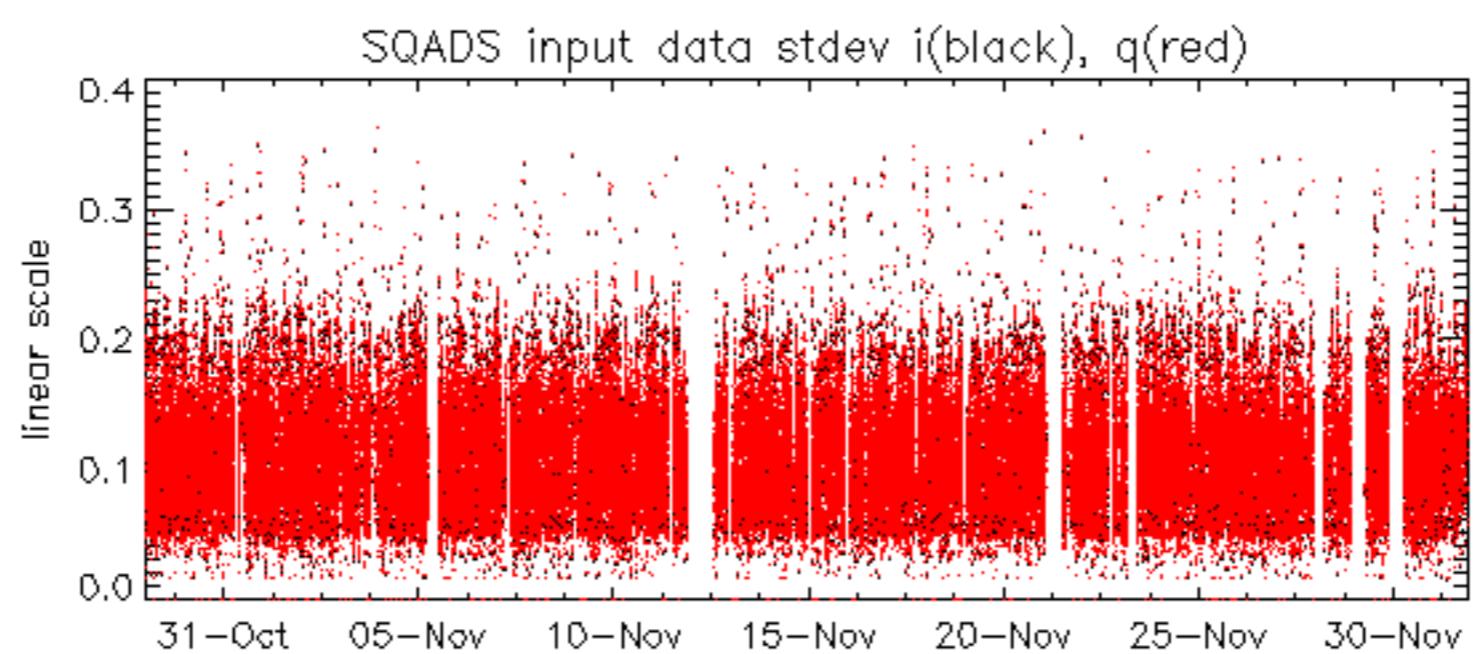
Test : 2003-12-02 20:48:41 V

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

Test : 2003-12-02 20:48:41 V







Reference:	2003-06-12 14:08:52 H	TxGain							
Test	: 2003-12-02 20:47:21 H								
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								

Reference:	2003-06-12 14:10:32	V	TxGain
Test	: 2003-12-02 20:48:41	V	
A1	A3	B1	B3
C1	C3	D1	D3
E1	E3		
A2	A4	B2	B4
C2	C4	D2	D4
E2	E4		

Reference:	2001-02-09 13:50:42 H	TxPhase
Test	: 2003-12-02 20:47:21 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
		23
A2	A4	B2
		B4
C2	C4	D2
		D4
E2	E4	
		24
		25
		26
		27
		28
		29
		30
		31
		32

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

Test : 2003-12-02 20:47:21 H

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

Test : 2003-12-02 20:48:41 V

ASAR unavailability began on 03-DEC-2003 07:18:43

