

REPORT OF 030912

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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 is unavailable from 12-SEP-2003 20:30:28 to 13-SEP-2003 12:11:19.

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

Due to unavailability MS products have not been received.

Results below are from the last available MS products.

Polarisation	Start Time
V	20030910 210922
H	20030910 210742

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	-3.81687	-22.5403	-8.13684
	stdev	0.00596903	0.0626348	0.00223401
10	mean	-6.89243	-19.3049	-8.13684
	stdev	0.0294357	0.0682225	0.00223401



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.80356	-22.5307	-8.10909
	stdev	0.00587264	0.0609289	0.00250874
10	mean	-6.89566	-19.3242	-8.10909
	stdev	0.0255624	0.0601532	0.00250874



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	0.000408428
	stdev	3.31950e-07
MEAN Q	mean	0.000298330
	stdev	3.22941e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.114978
	stdev	0.00146600
STDEV Q	mean	0.115175
	stdev	0.00148597



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed Doppler evolution.

Doppler analysis performed over the last 60 days

Data gap over South-Africa/Madagascar is due to MS acquisitions

6.1 - Unbiased Doppler Error

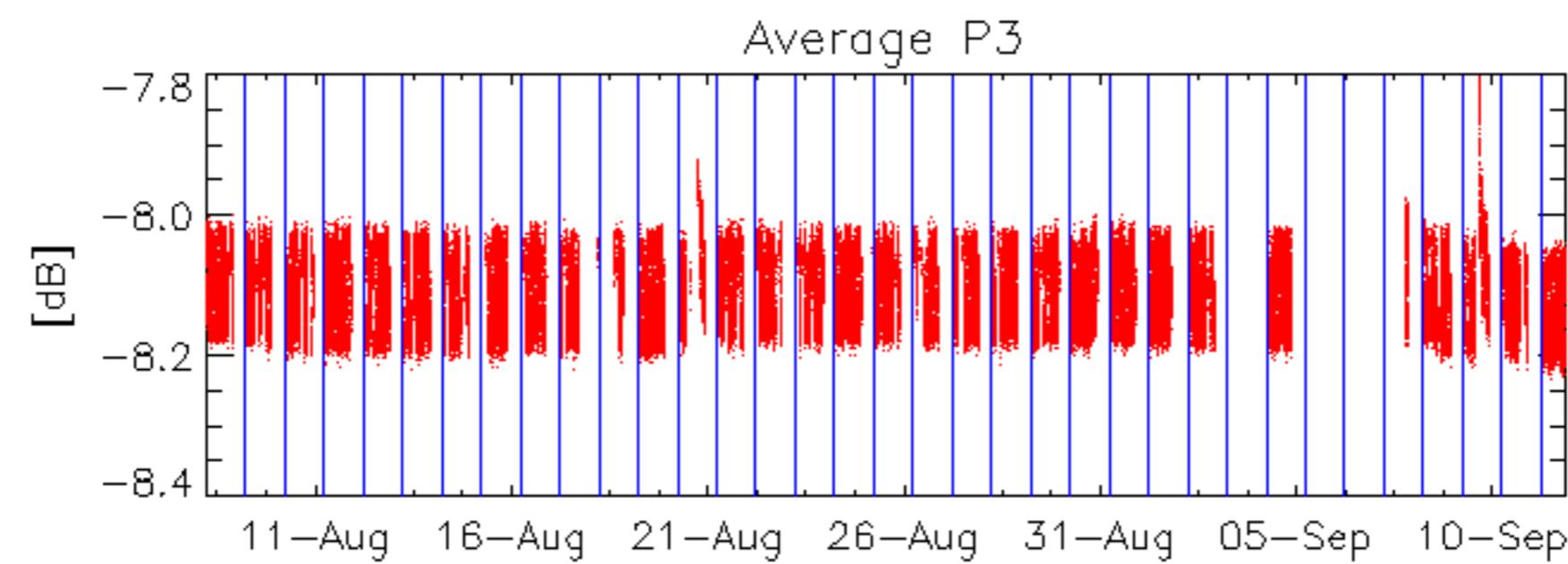
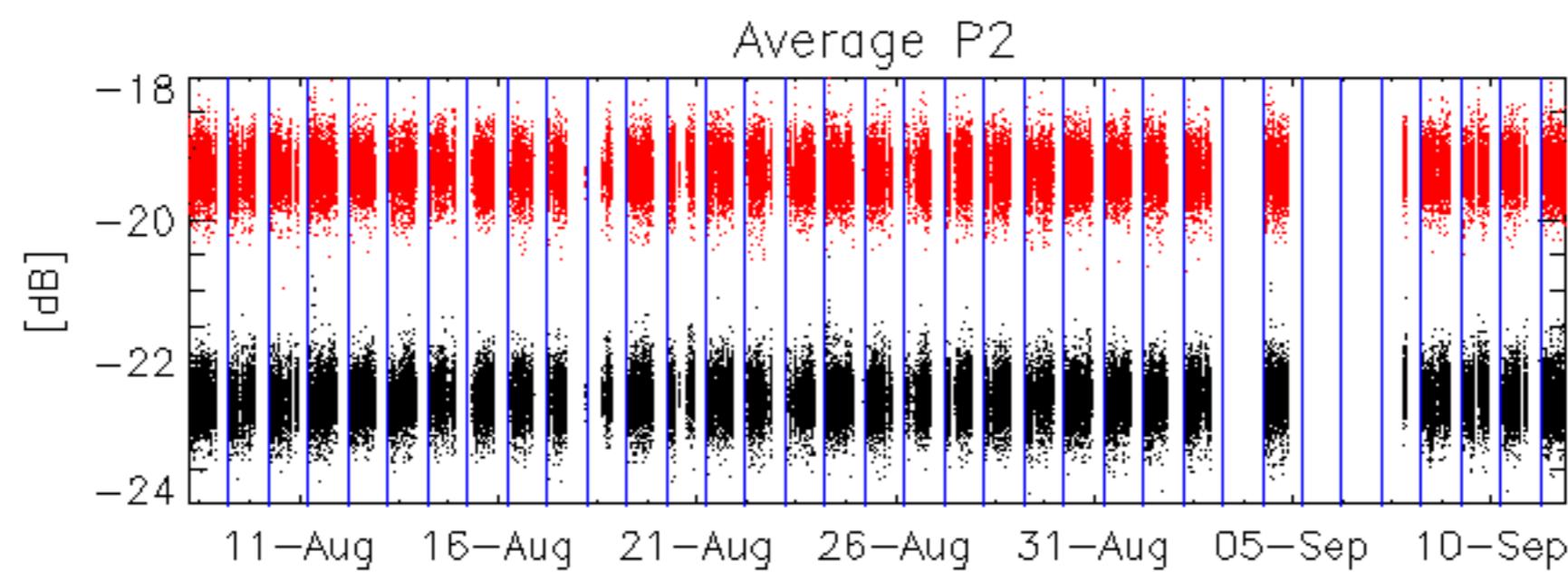
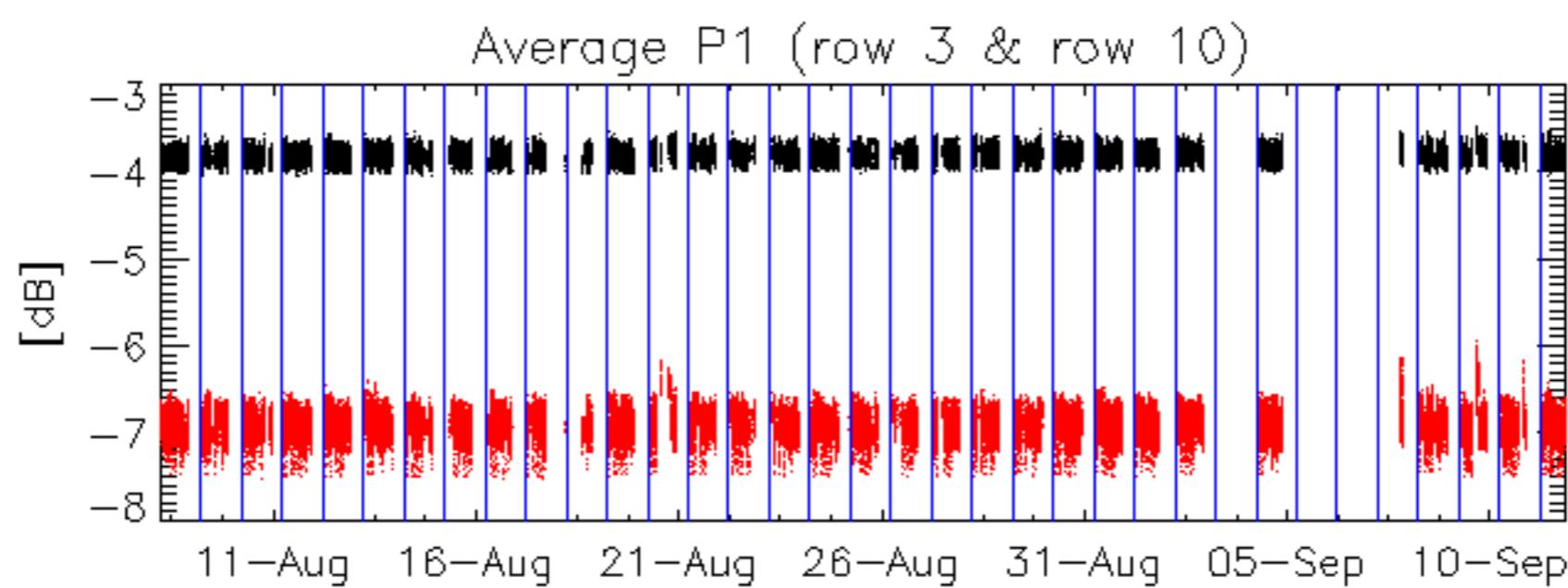
Evolution of unbiased Doppler error (Real - Expected)	
Ascending	
Descending	

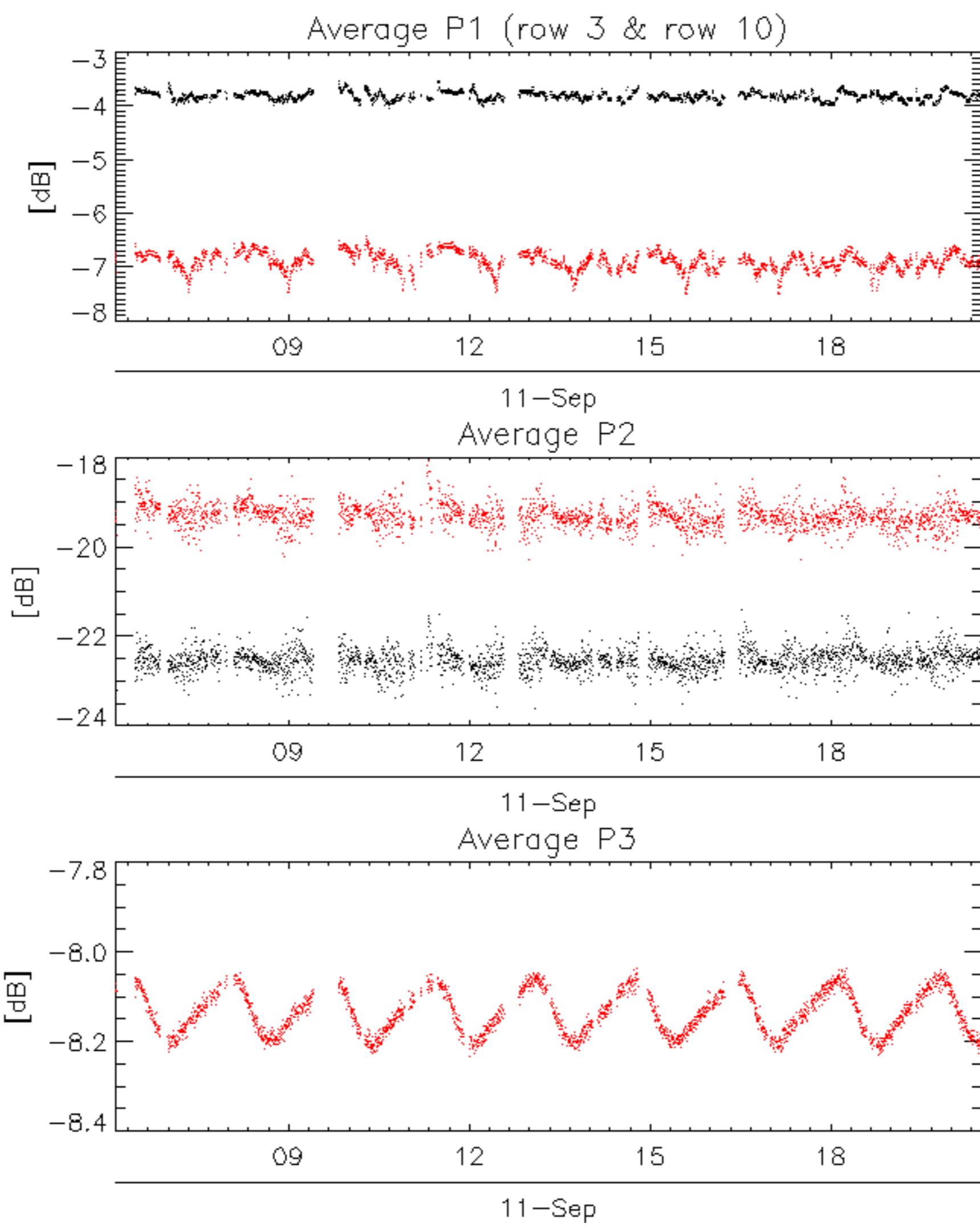
6.2 - Absolute Doppler

Evolution of Absolute Doppler	
Ascending	
Descending	

6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX	
Ascending	



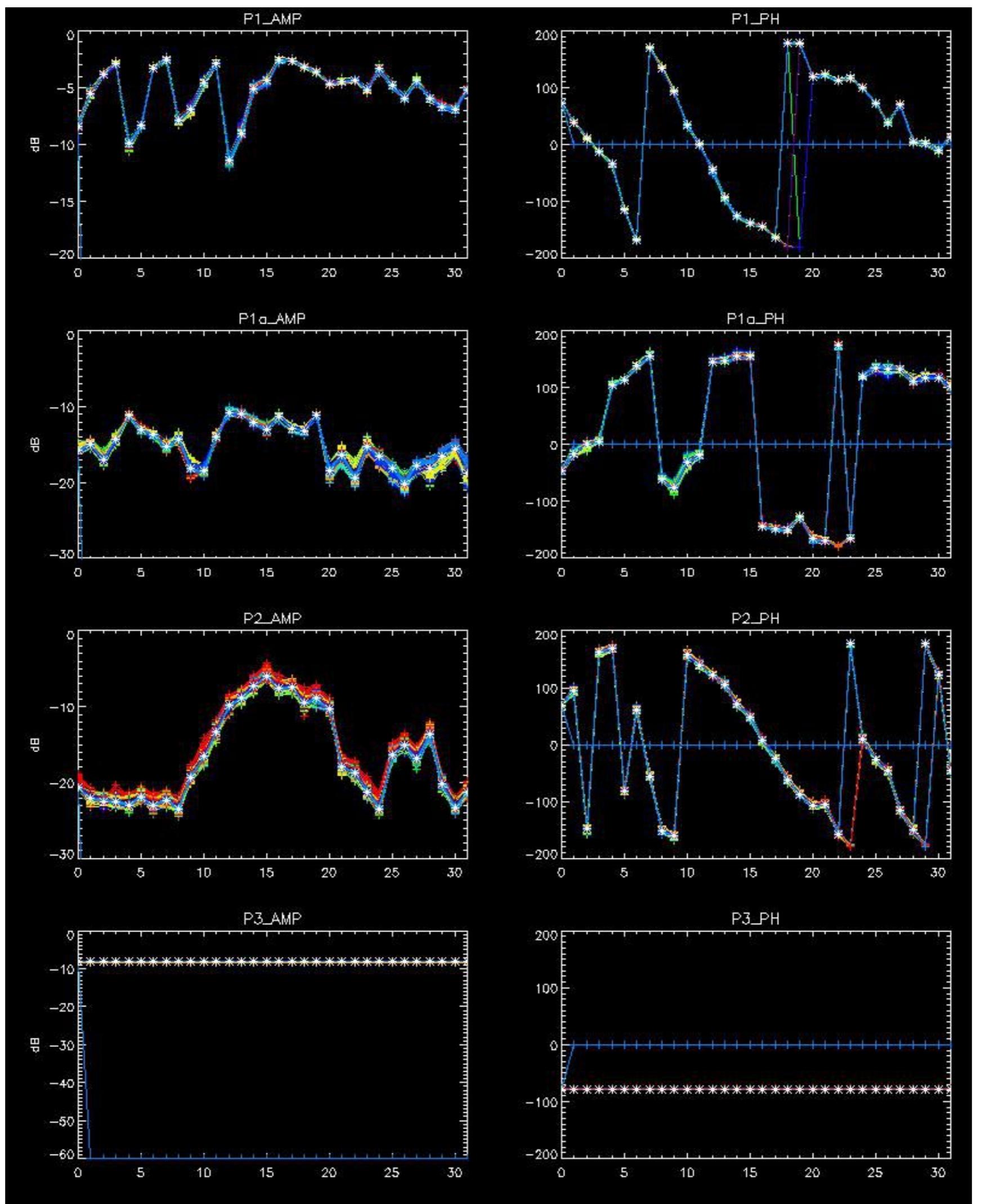


No anomalies observed on available browse products



No anomalies observed.



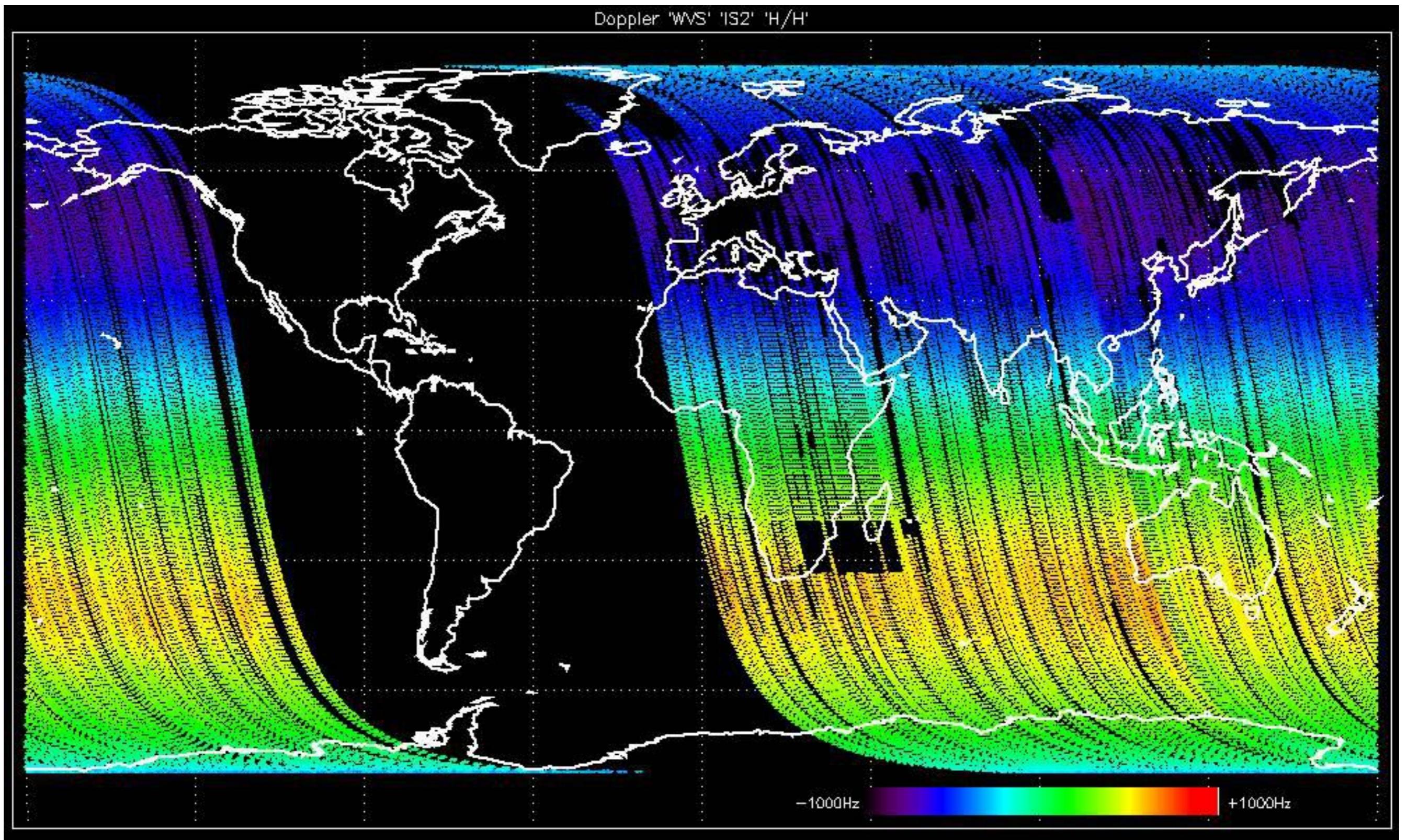


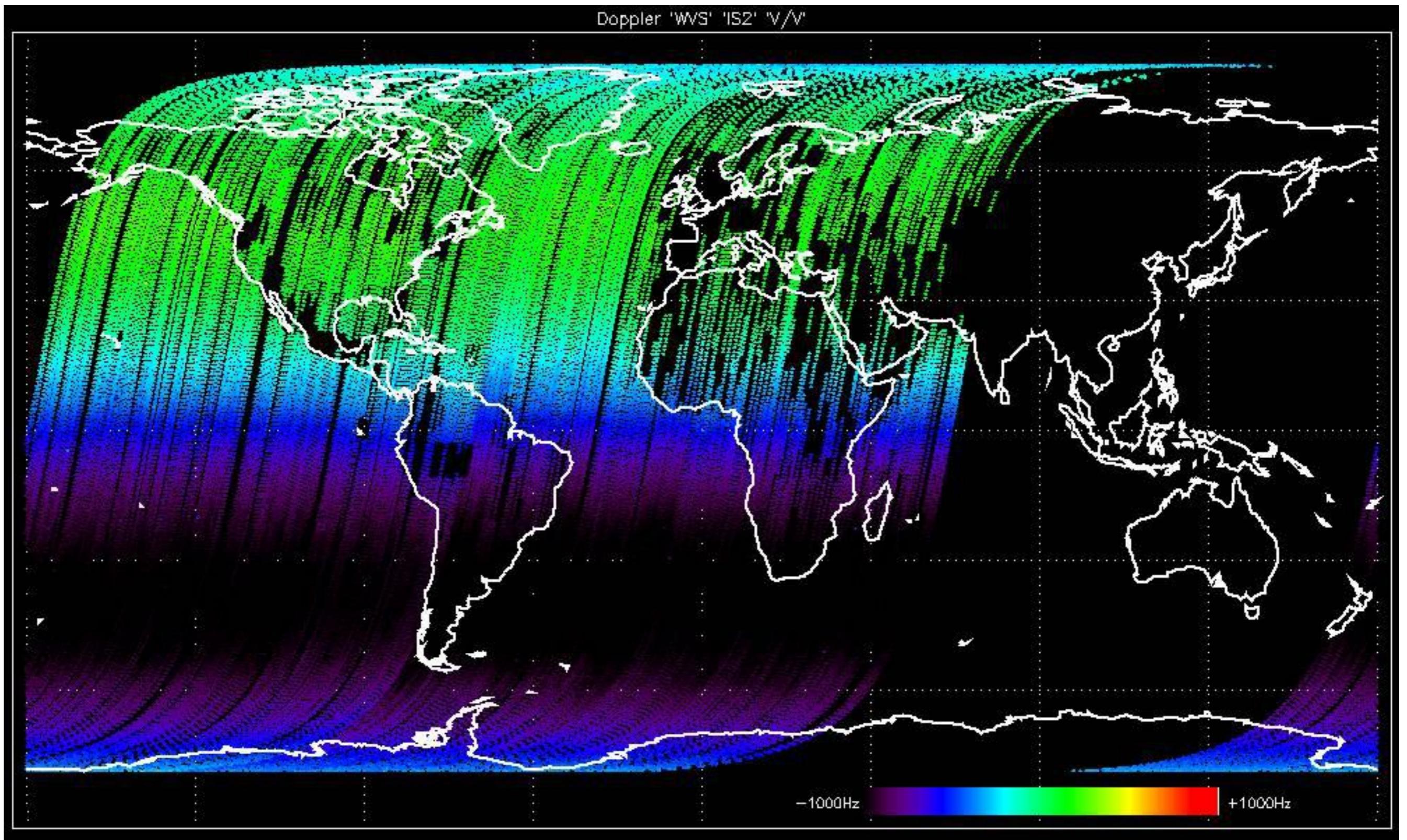
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

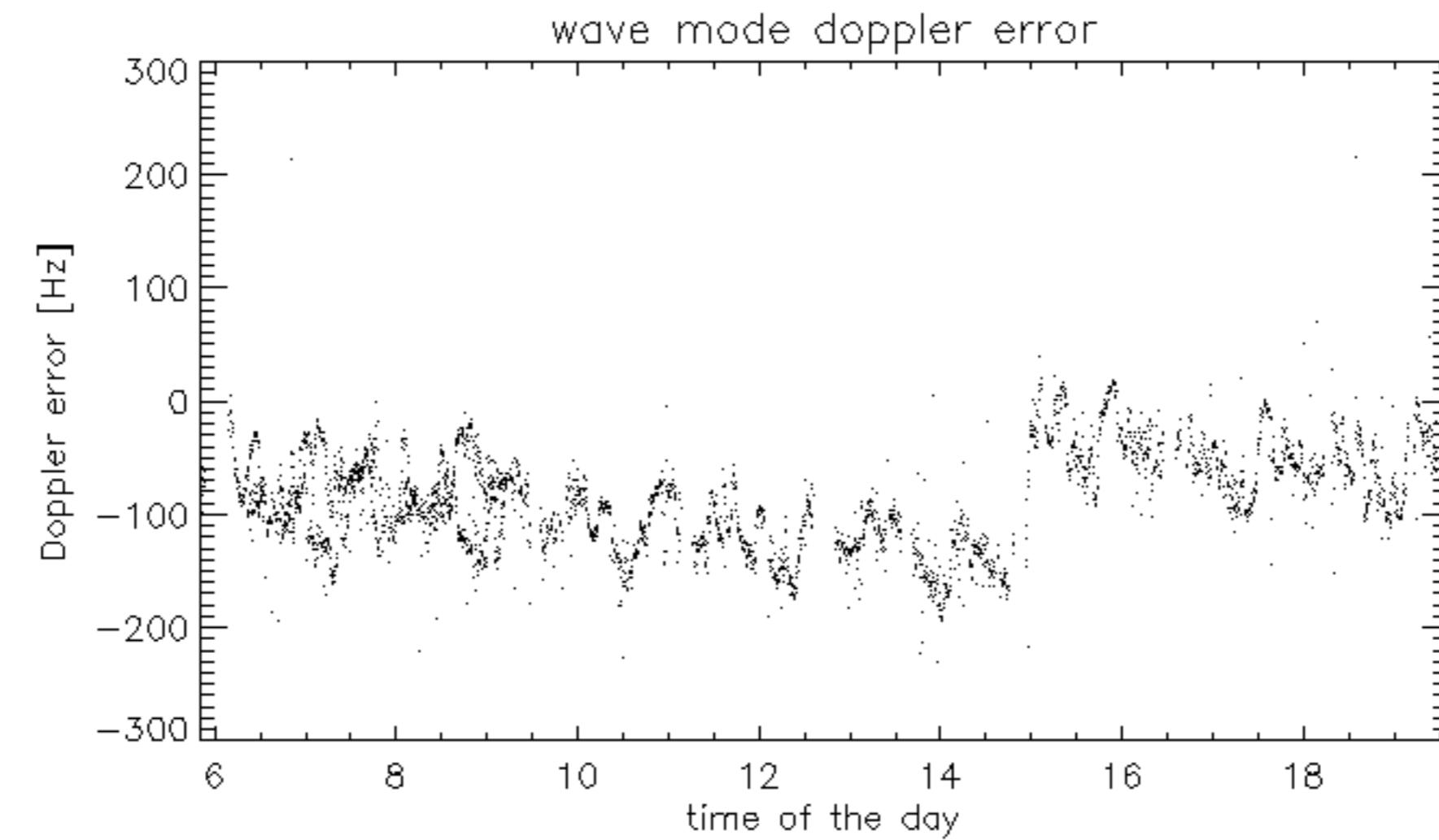
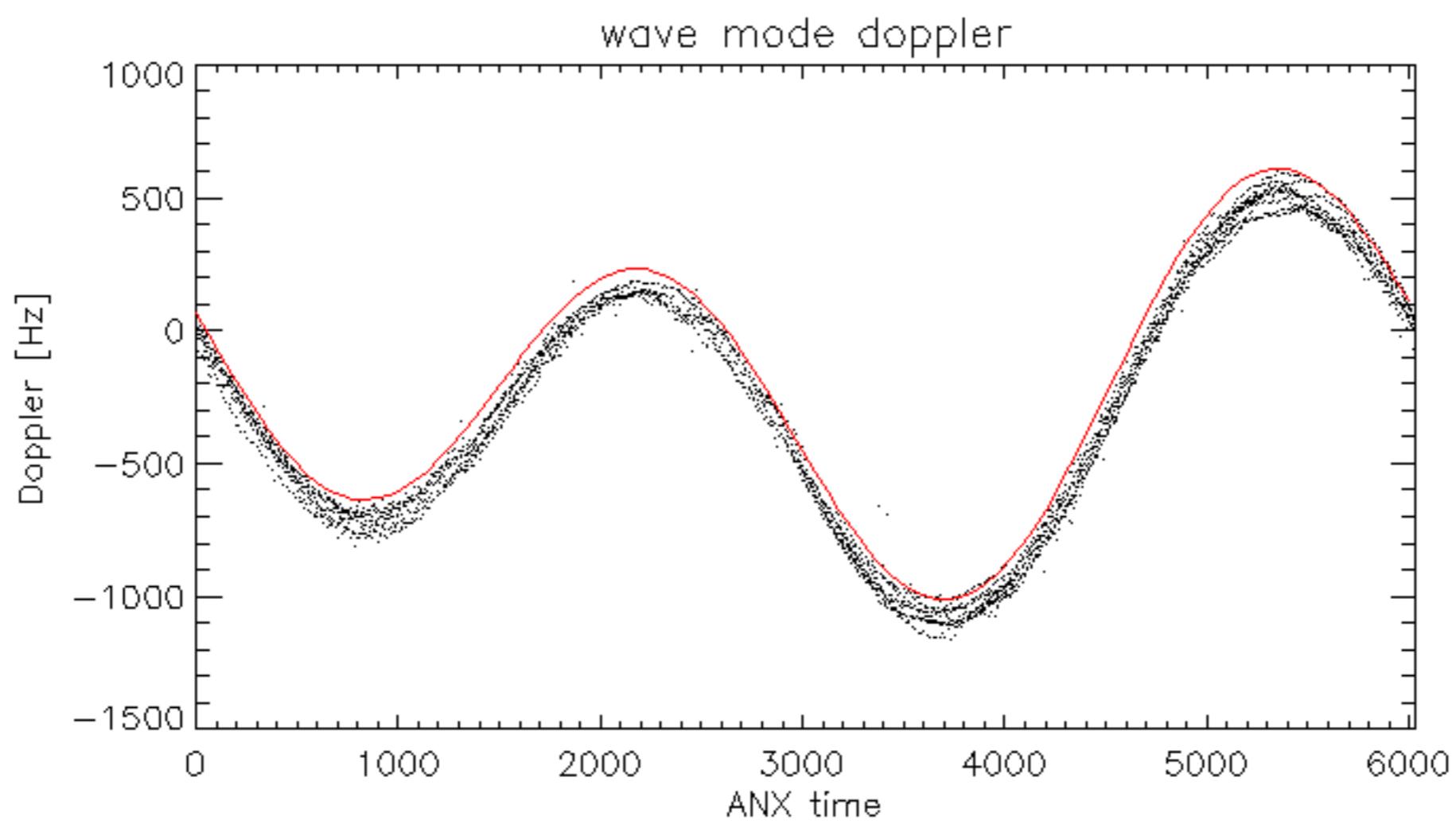


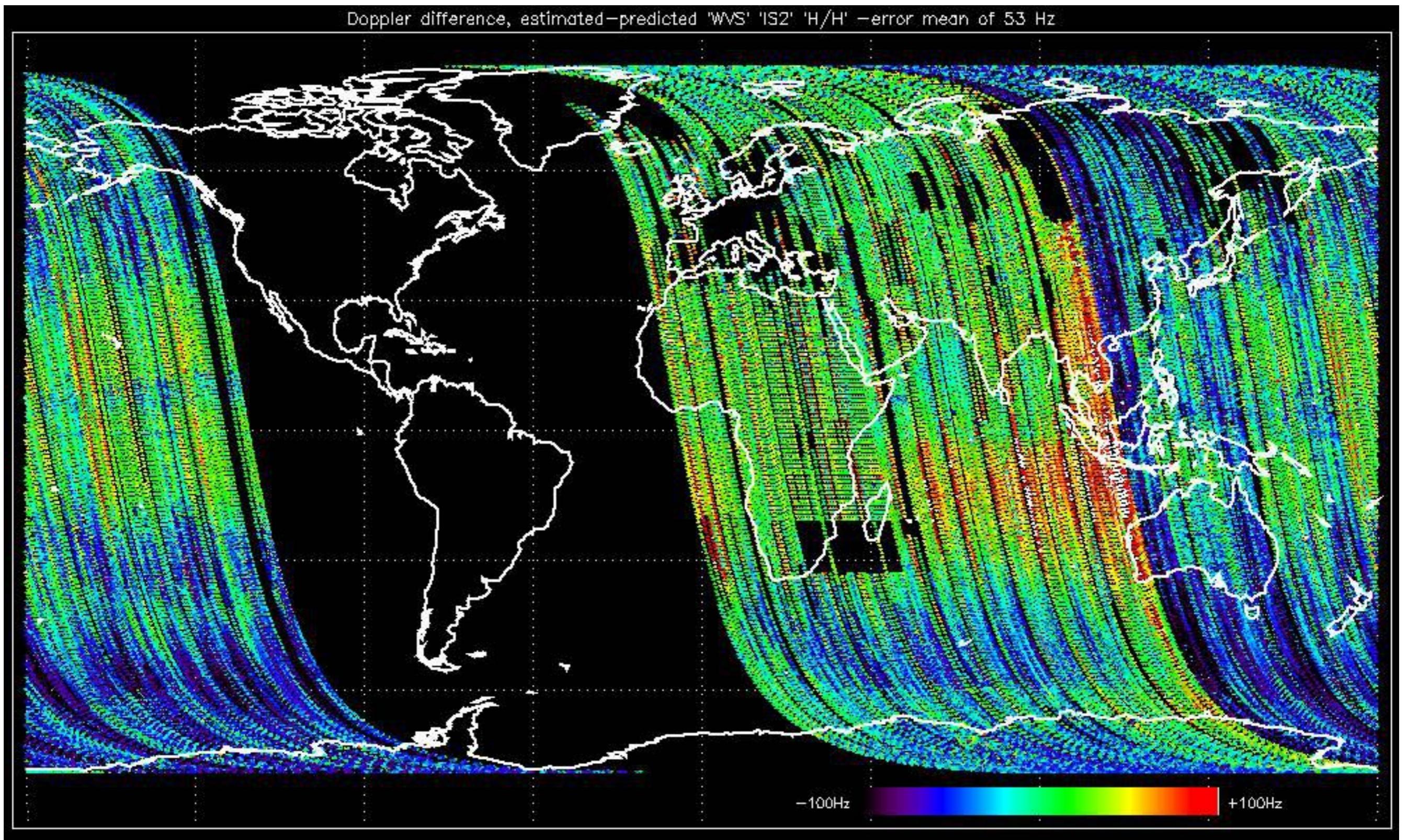
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days
Data gap over South-Africa/Madagascar is due to MS acquisitions

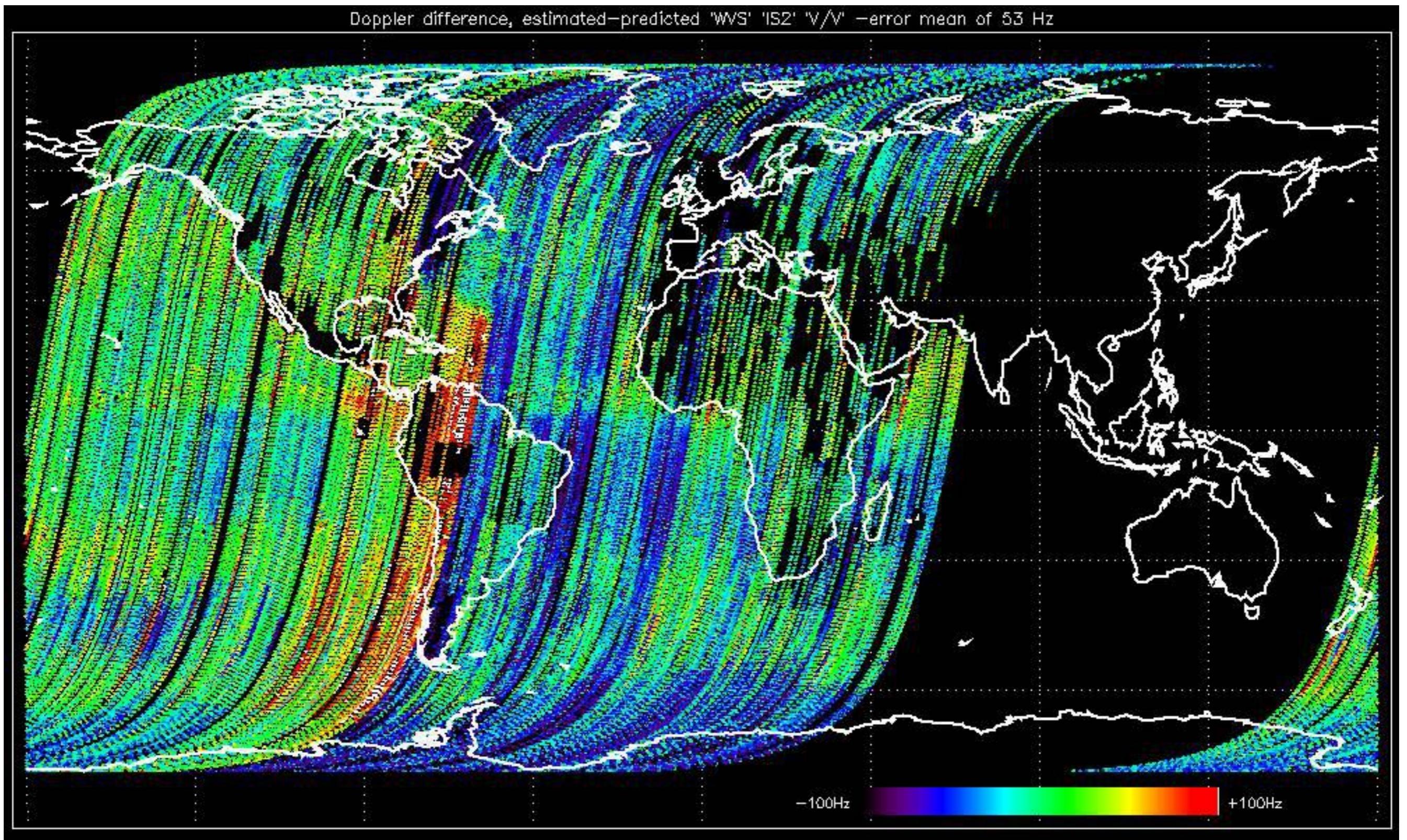












Due to unavailability MS products have not been received.
Results below are from the last available MS products.



No anomalies observed.



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

Test : 2003-09-10 21:07:42 H

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

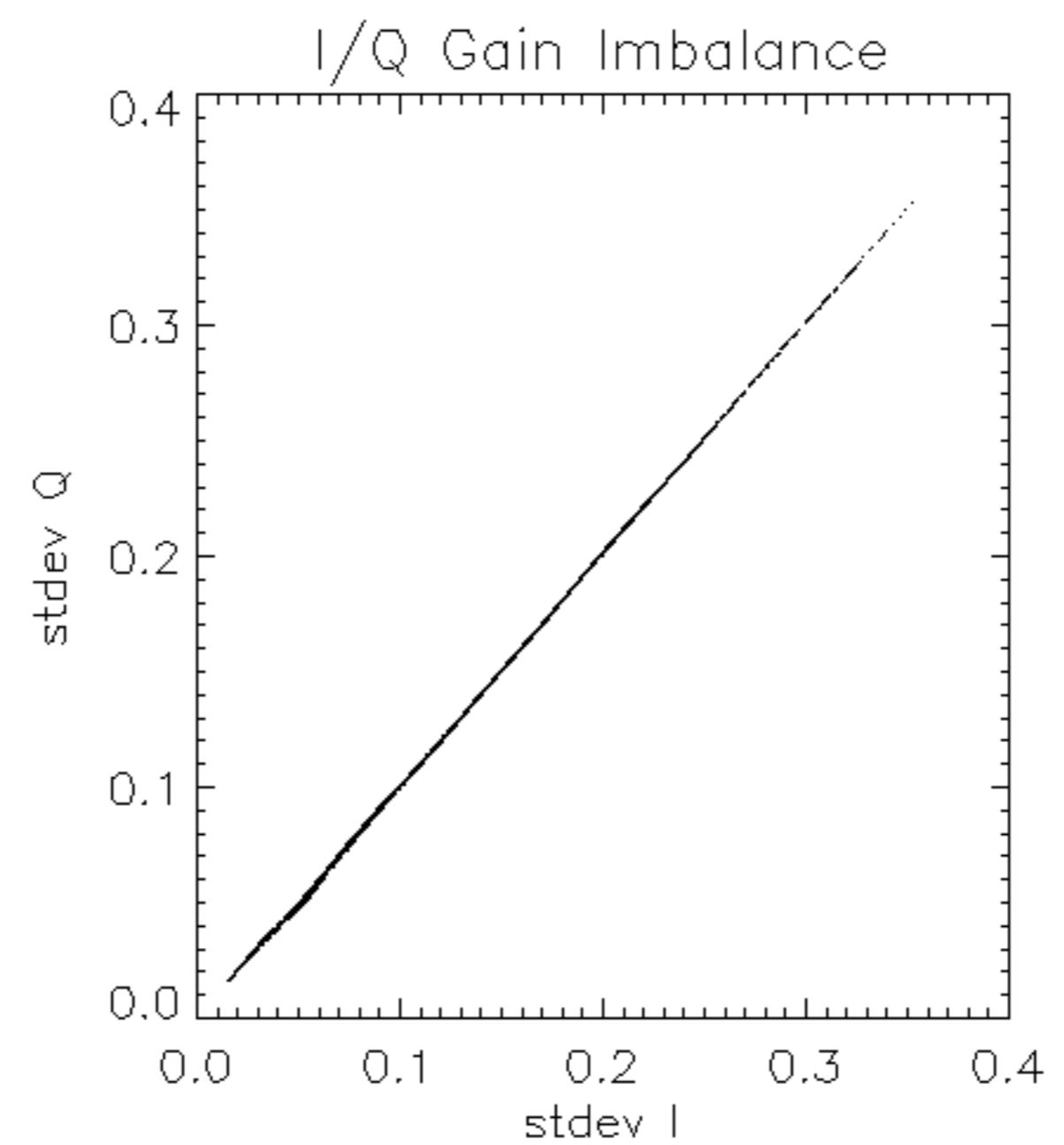
Test : 2003-09-10 21:07:42 H

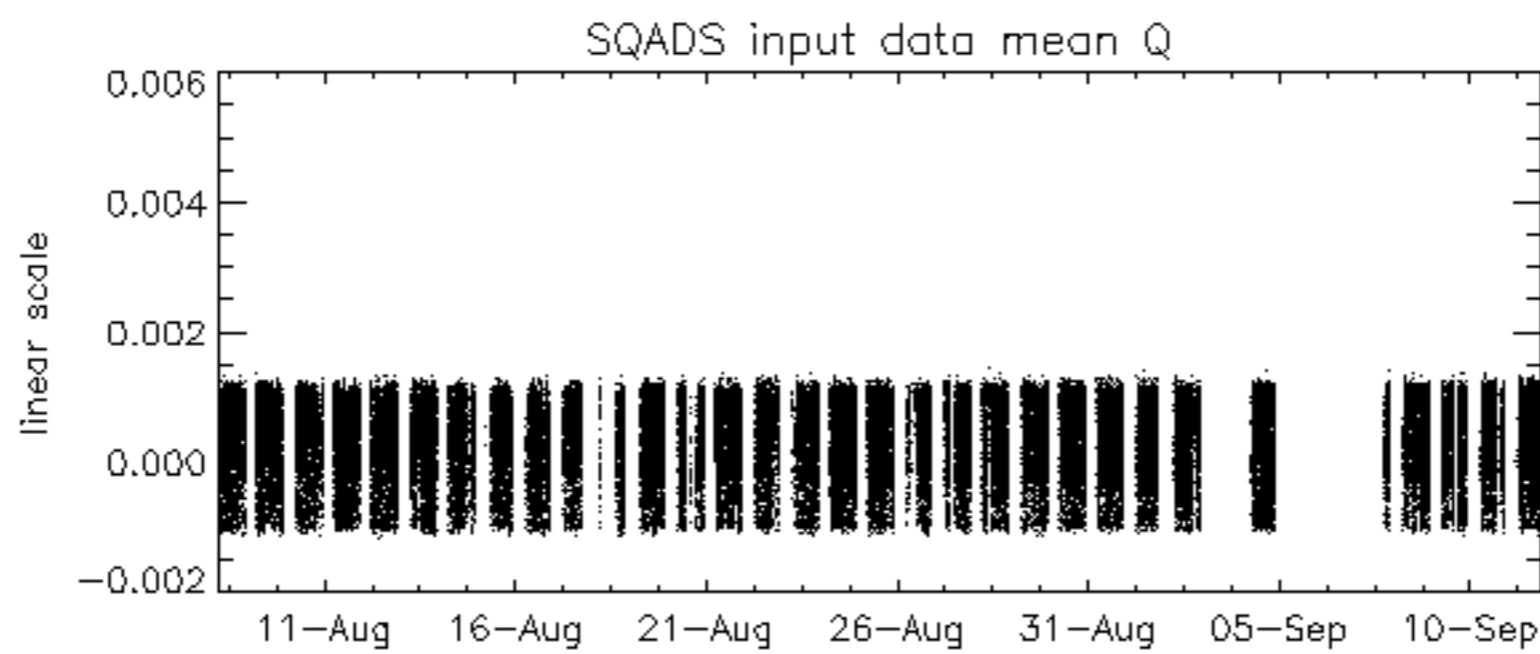
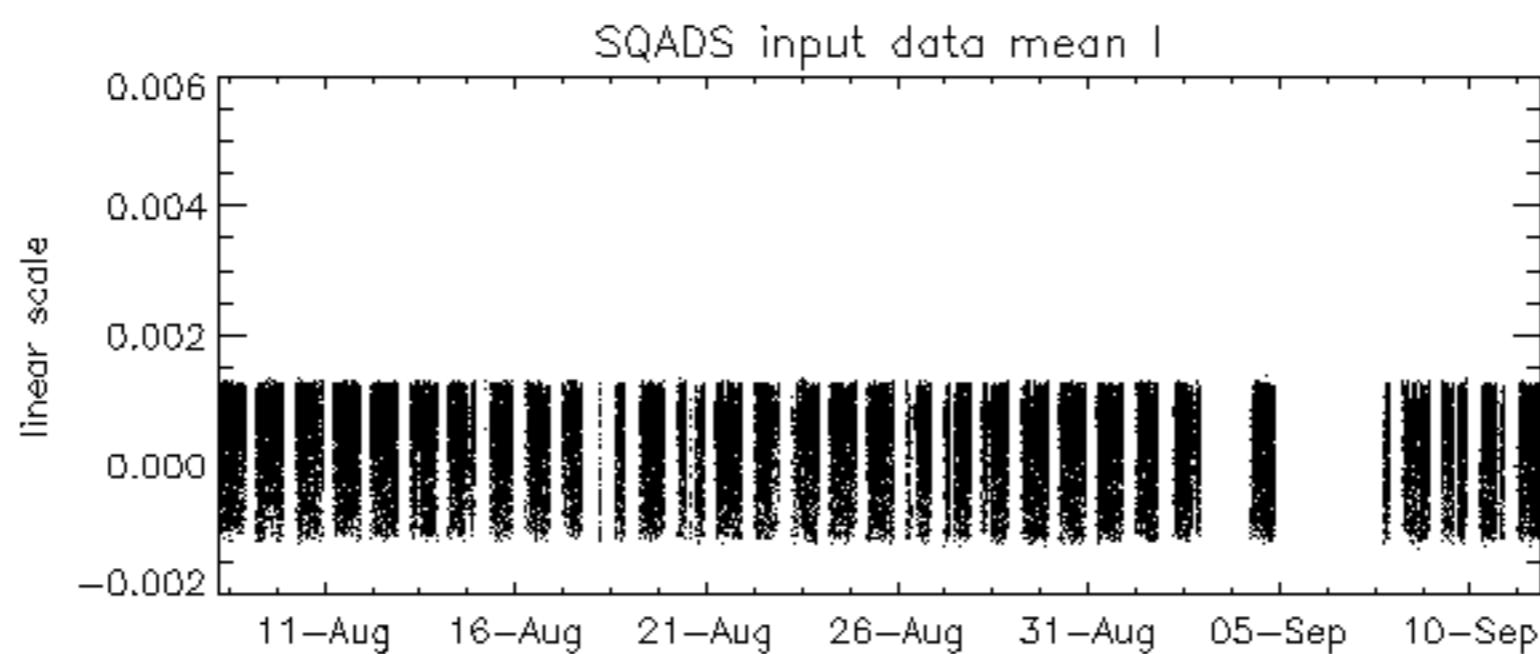
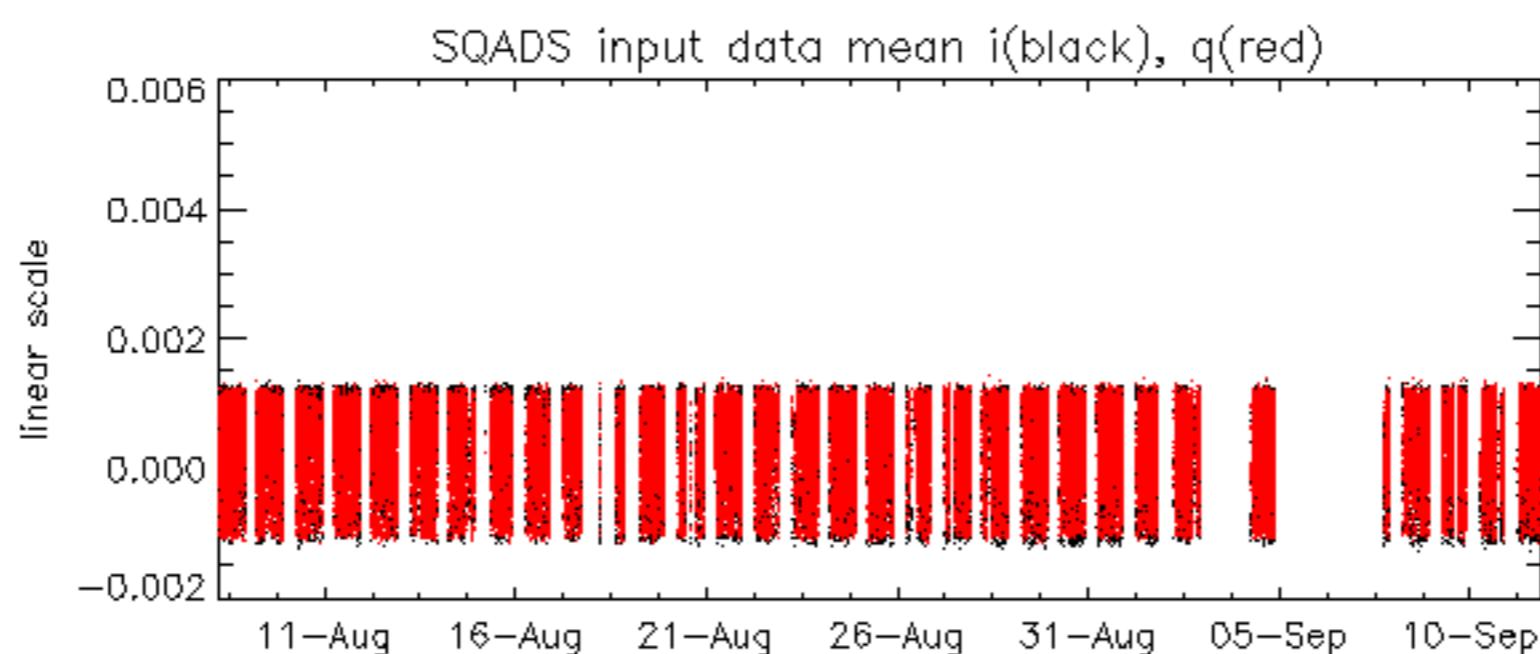
Reference: 2003-06-12 14:10:32 V

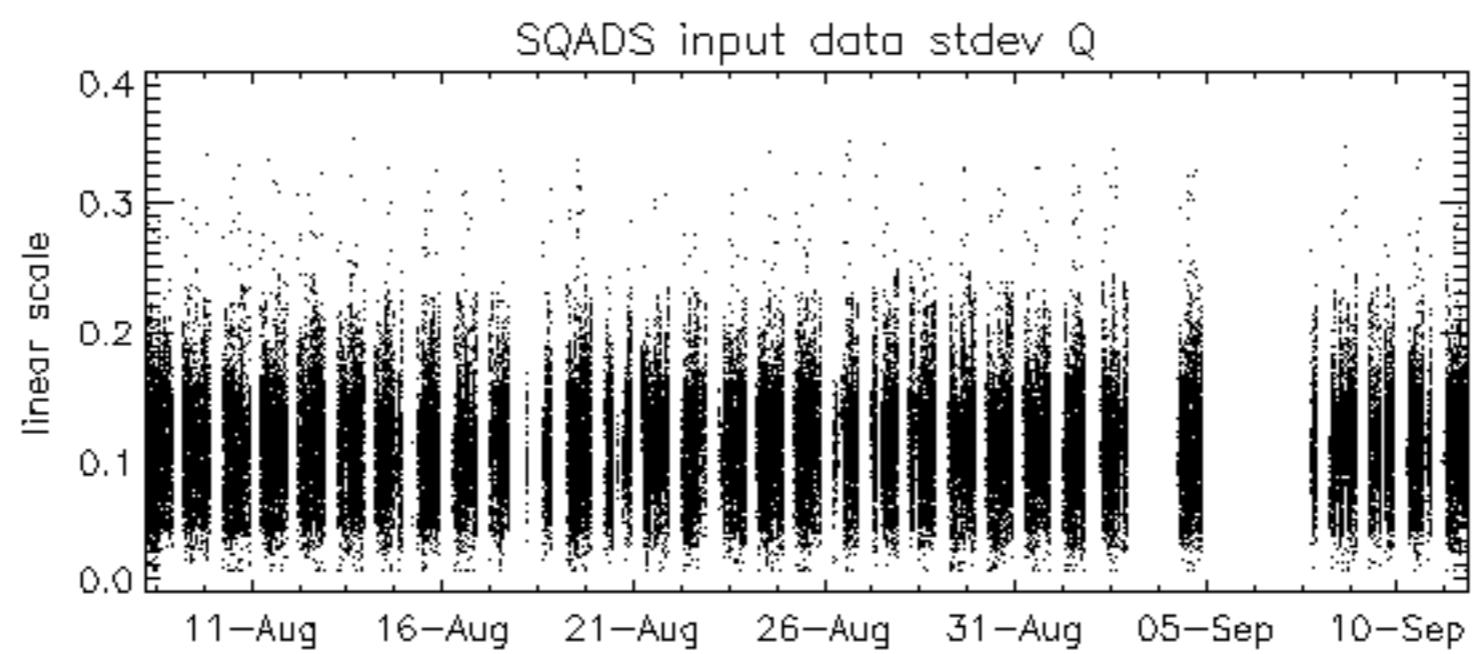
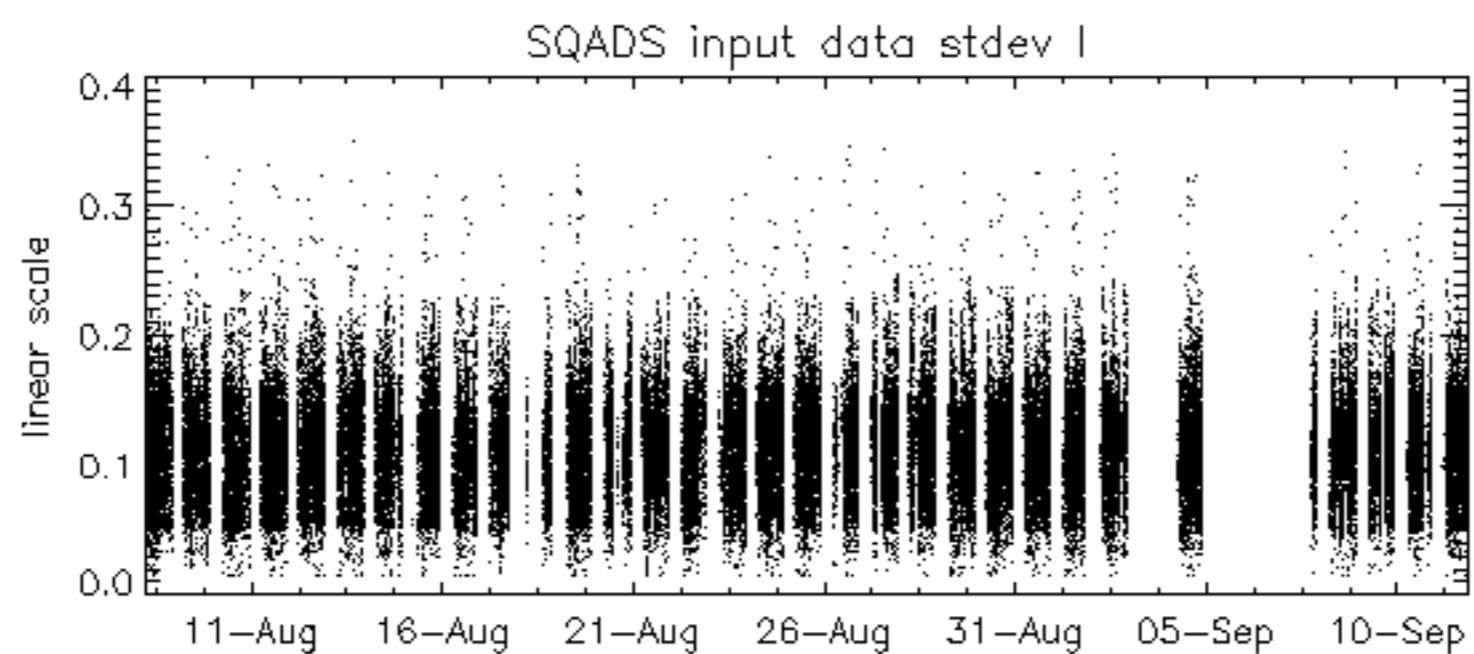
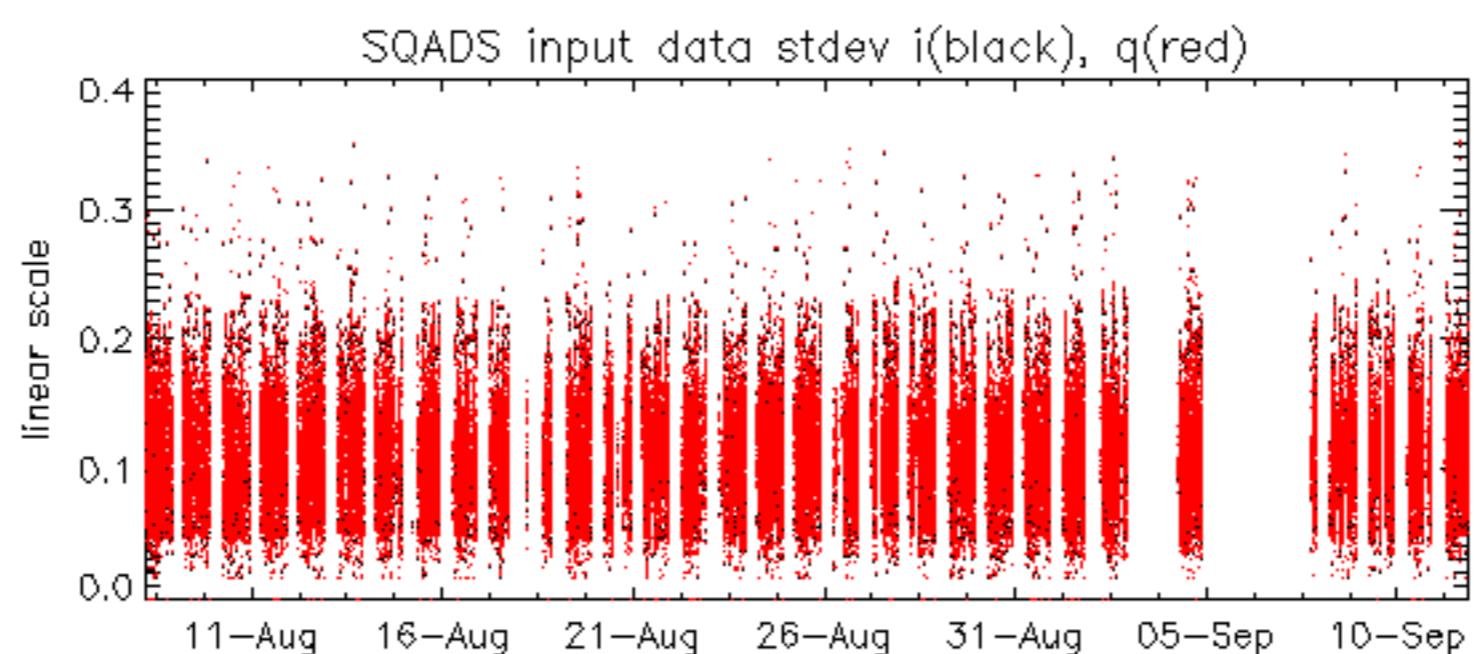
Test : 2003-09-10 21:09:22 V

Reference:	2003-06-12 14:08:52 H	RxPhase							
Test	: 2003-09-10 21:07:42 H								
A1	A3	B1	B3	C1	C3	D1	D3	E1	E3
A2	A4	B2	B4	C2	C4	D2	D4	E2	E4

RxPhase									
Reference: 2001-02-09 14:08:23 V									
Test : 2003-09-10 21:09:22 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 14:08:52 H

TxGain

Test : 2003-09-10 21:07:42 H

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

Test : 2003-09-10 21:09:22 V

Reference:	2001-02-09 13:50:42 H	TxPhase
Test	: 2003-09-10 21:07:42 H	
		1
		2
		4
		3
		4
		5
		8
		7
A1	A3	B1
B3	C1	C3
D1	D3	E1
		E3
		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

Test : 2003-09-10 21:07:42 H

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

Test : 2003-09-10 21:09:22 V

Reference:	2003-06-12 14:10:32 V	TxPhase
Test	: 2003-09-10 21:09:22 V	
		1
		2
		3
		4
		5
		6
A1	A3	B1
B3	C1	C3
D1	D3	E1
		E3
		7
		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

ASAR is unavailable from 12-SEP-2003 20:30:28.

