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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:











Polarisation	Start Time
V	20030828 193723
H	20030828 193543

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 WVS products acquired from 28-Aug-2003 05:06:31 UTC to 29-Aug-2003 09:02:24 UTC.
No anomalies observed.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79901	-22.5540	-8.11042
	stdev	0.00559431	0.0613836	0.00211286
10	mean	-6.89263	-19.3382	-8.11042
	stdev	0.0234470	0.0578991	0.00211286



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.81069	-22.5441	-8.10708
	stdev	0.00564277	0.0615328	0.00231164
10	mean	-6.89950	-19.3307	-8.10708
	stdev	0.0240440	0.0602297	0.00231164



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	0.000438738
	stdev	3.19479e-07
MEAN Q	mean	0.000289568
	stdev	3.26548e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.114620
	stdev	0.00153165
STDEV Q	mean	0.114794
	stdev	0.00155542



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed 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

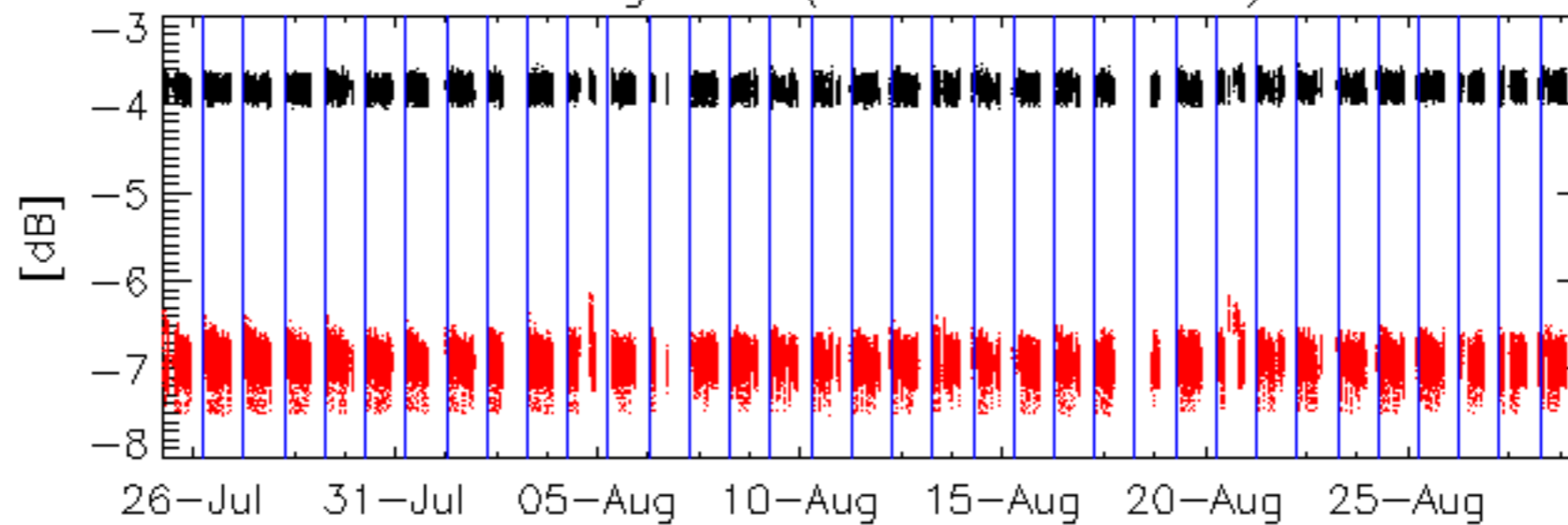
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

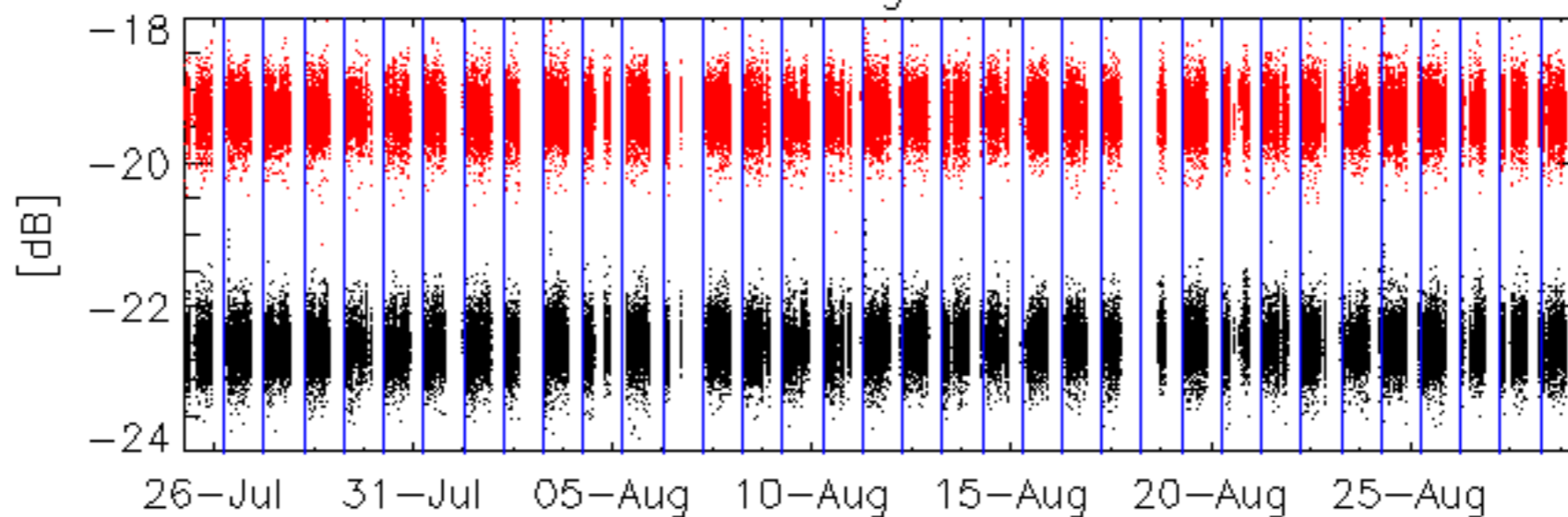
Evolution Doppler error versus ANX



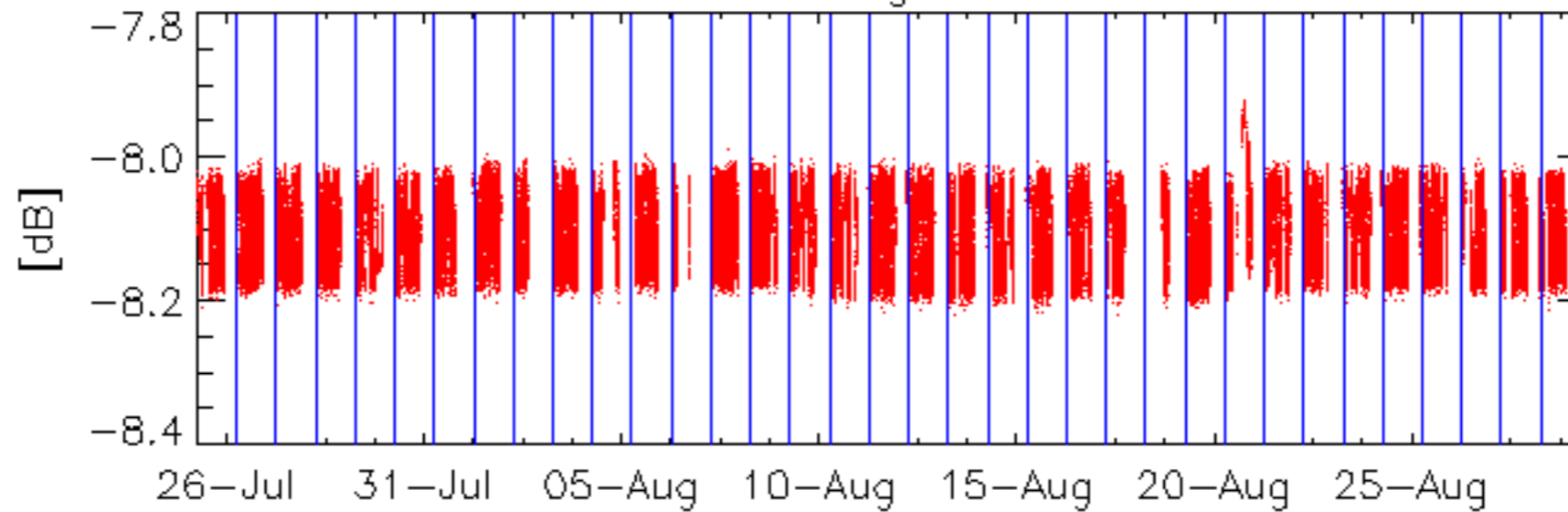
Average P1 (row 3 & row 10)

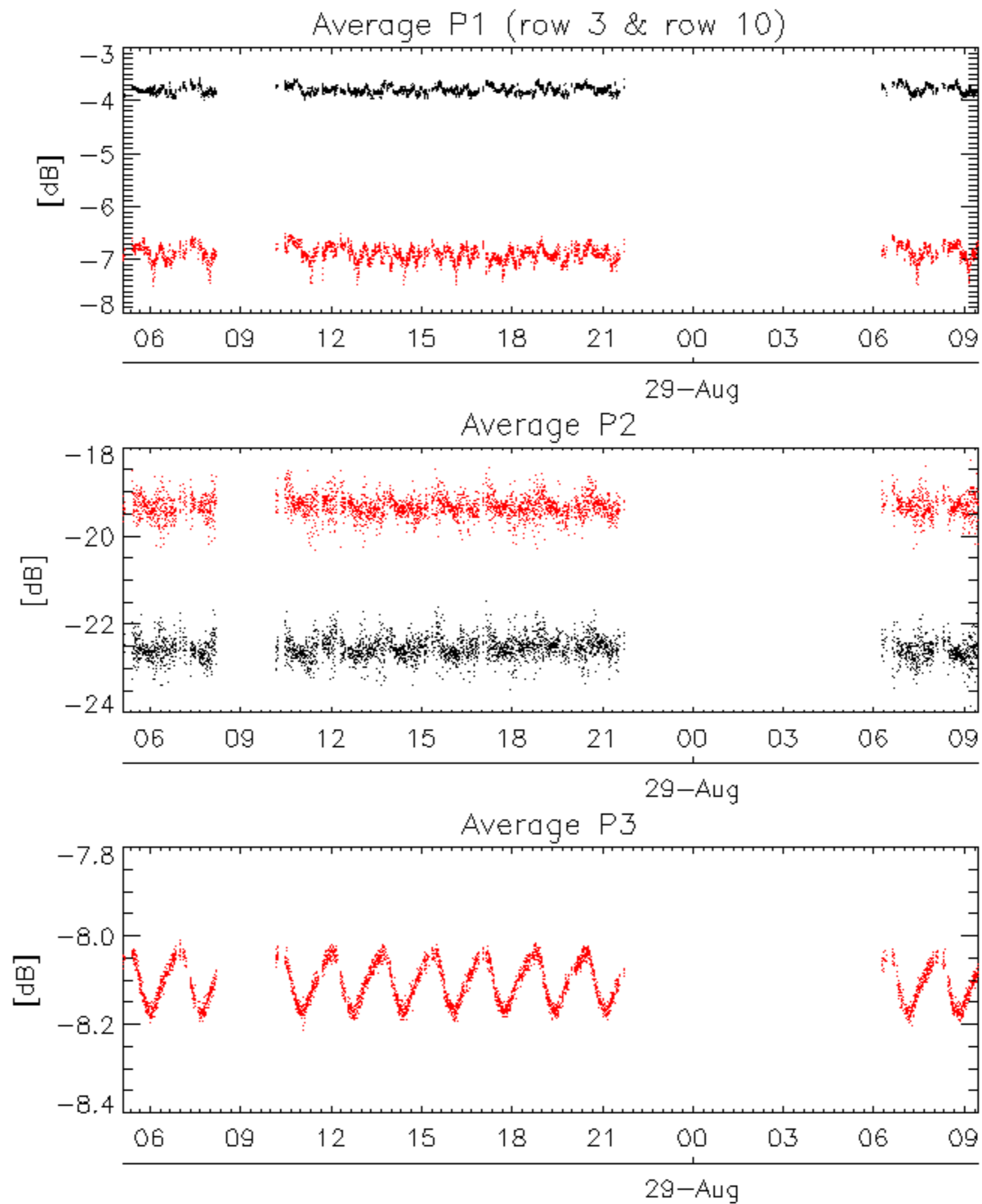


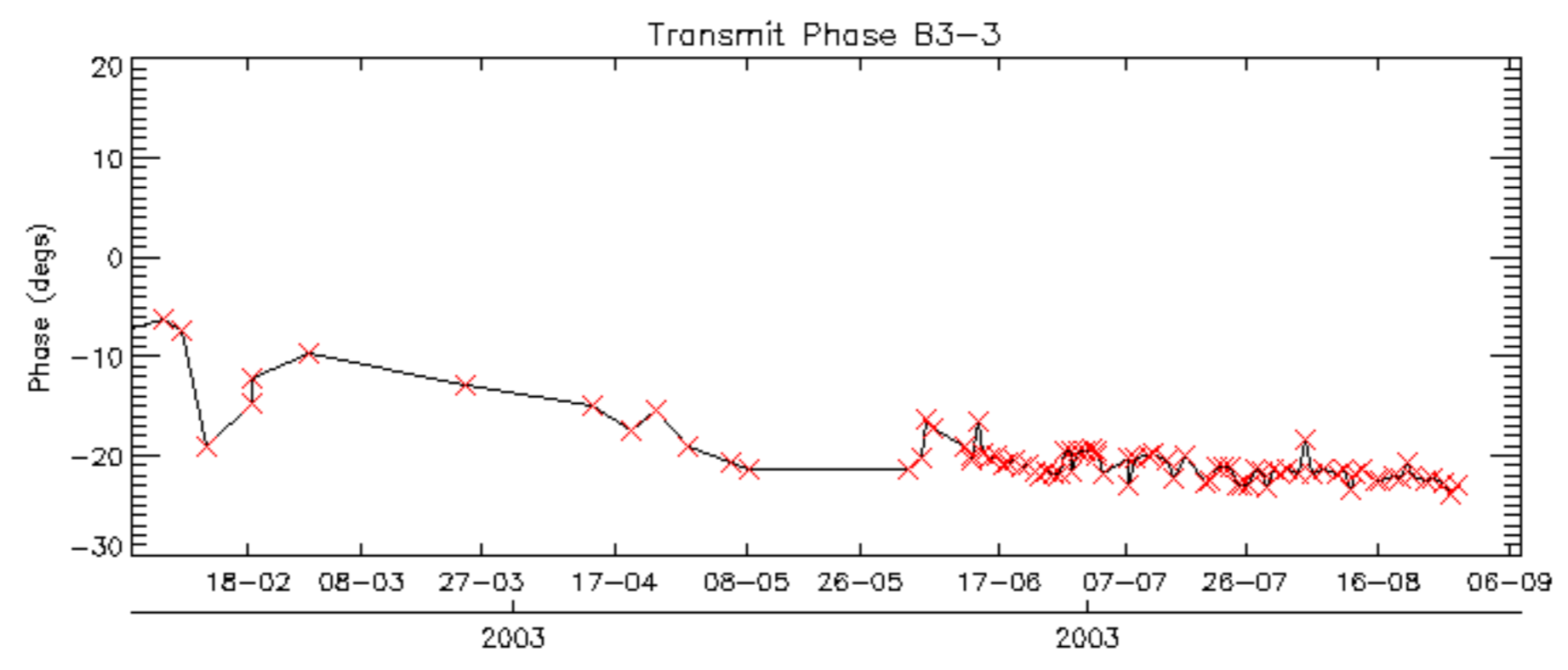
Average P2



Average P3



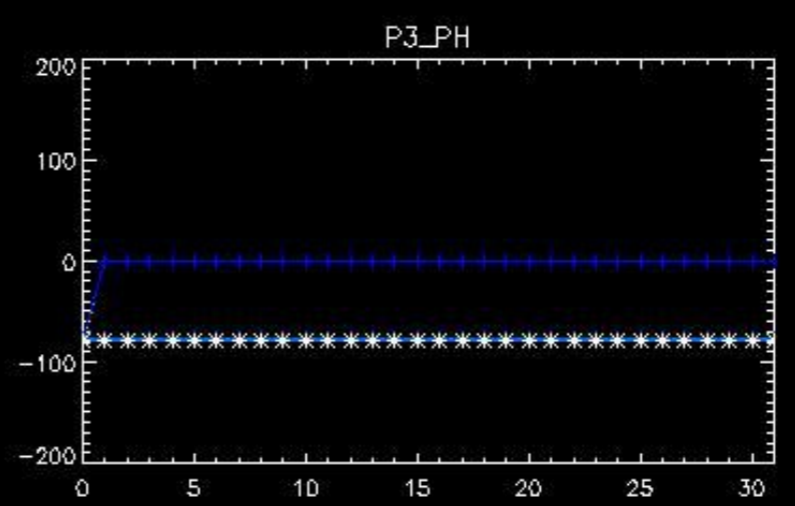
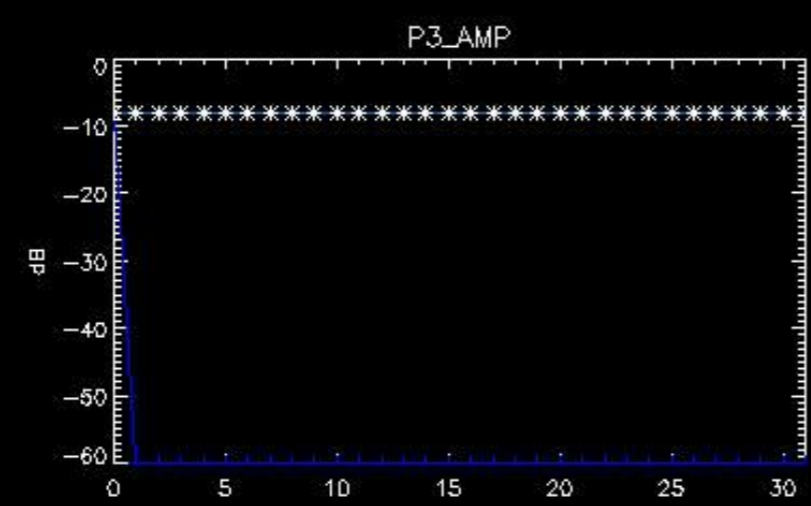
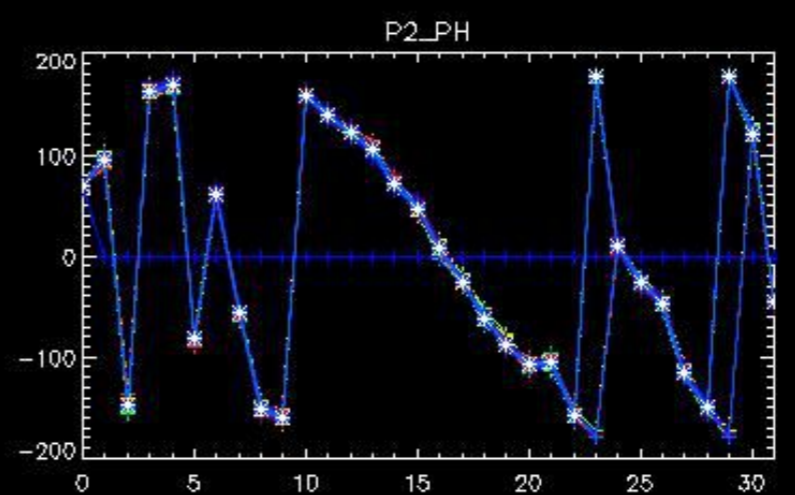
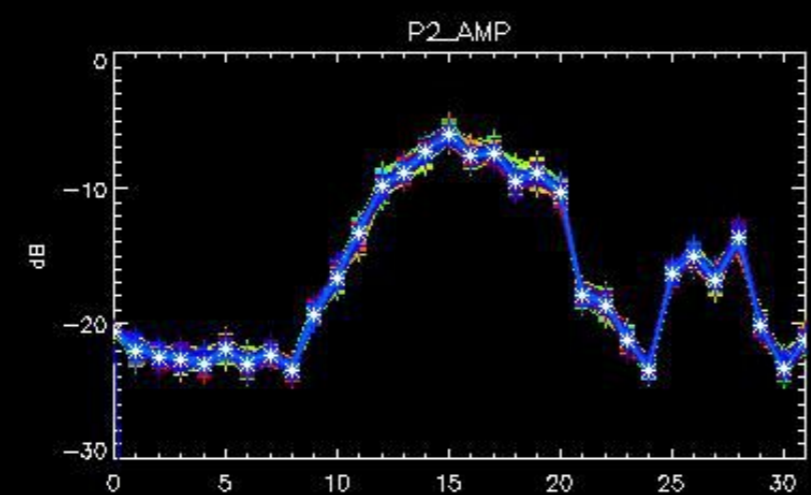
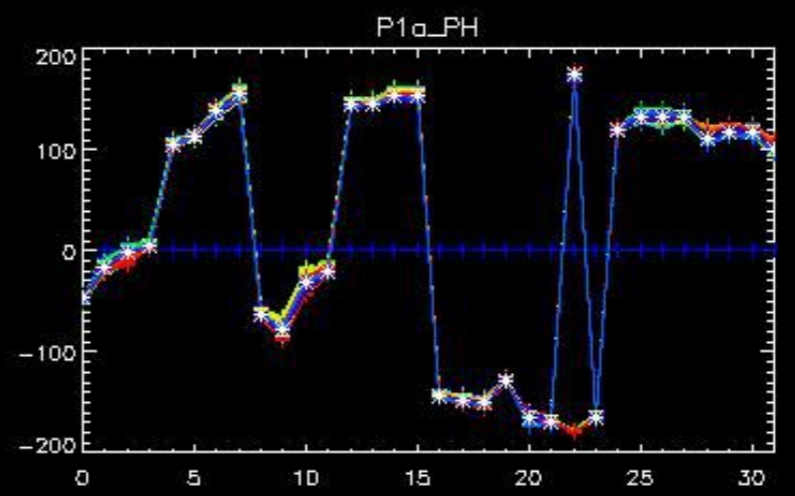
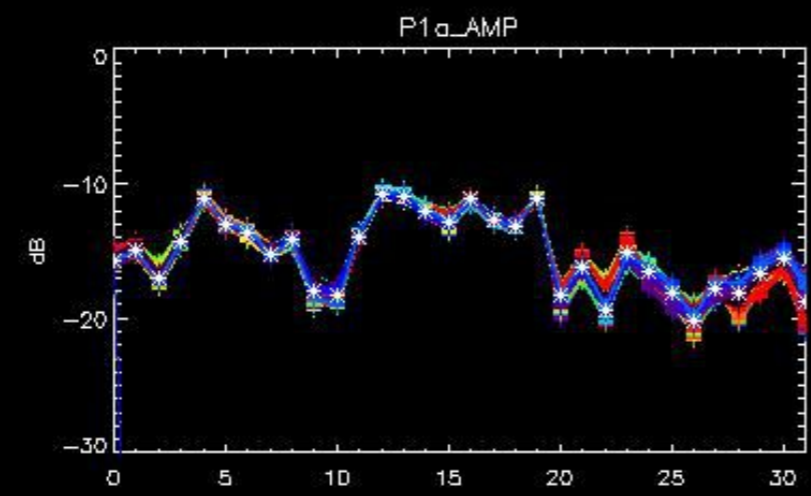
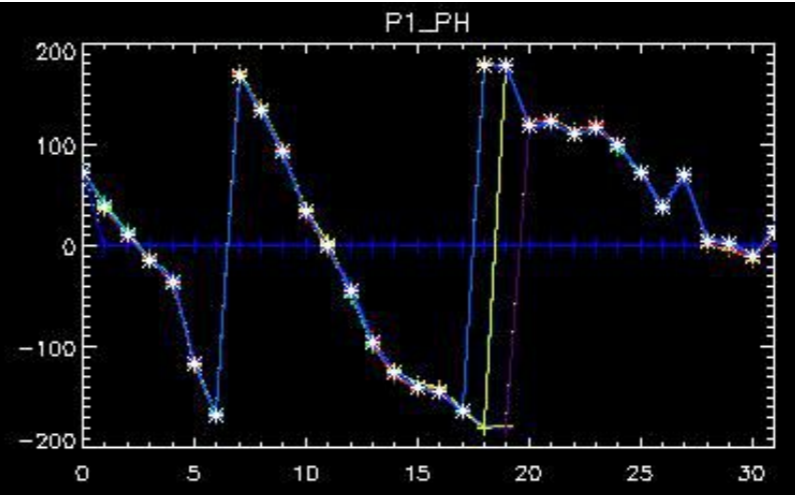
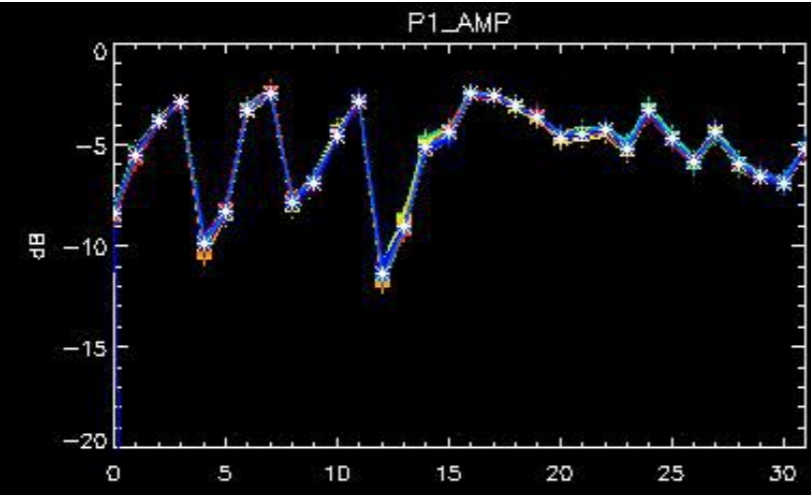




No anomalies observed on available browse products.

Analysis performed on WVS products acquired from 28-Aug-2003 05:06:31 UTC to 29-Aug-2003 09:02:24 UTC.
No anomalies observed.

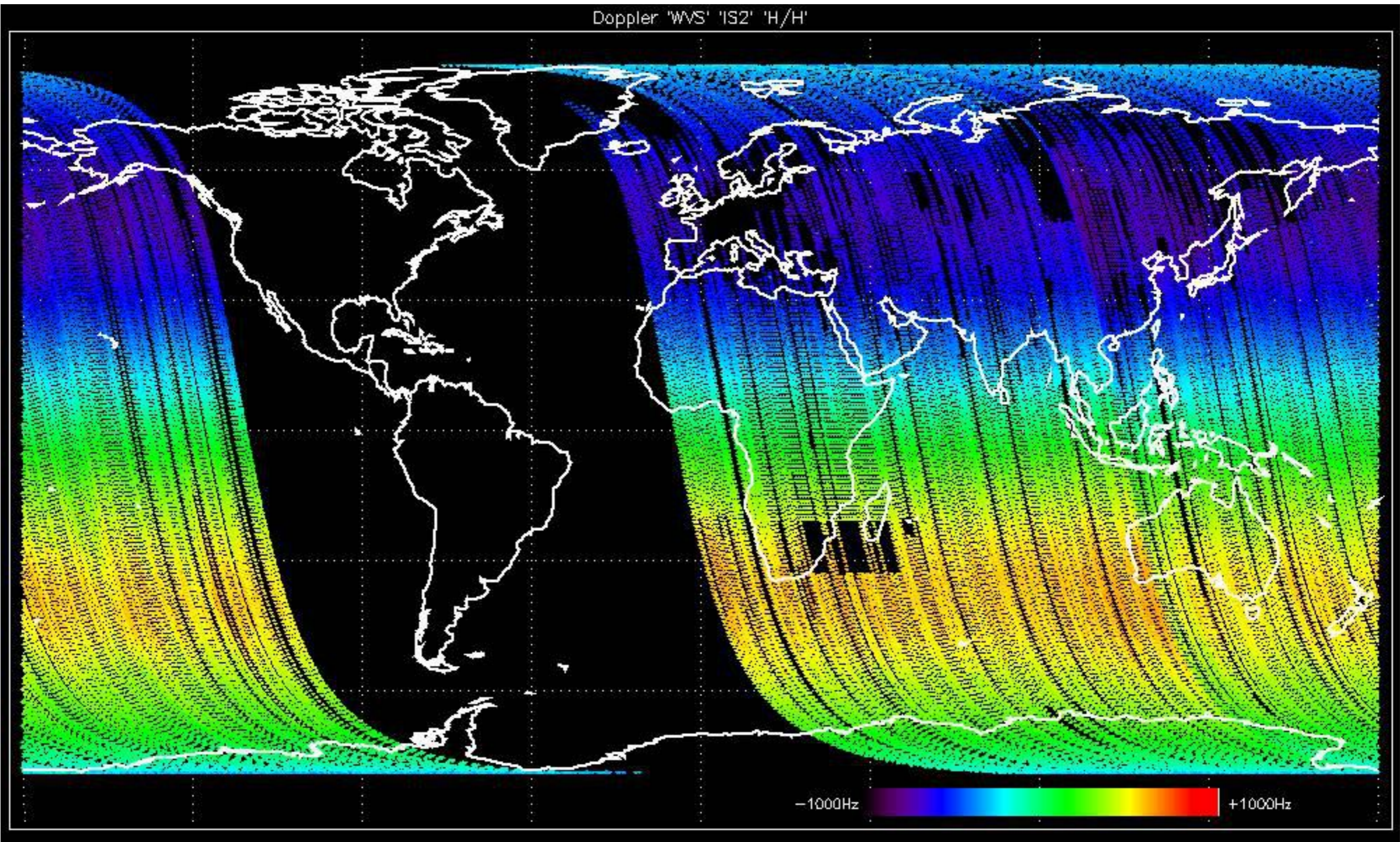




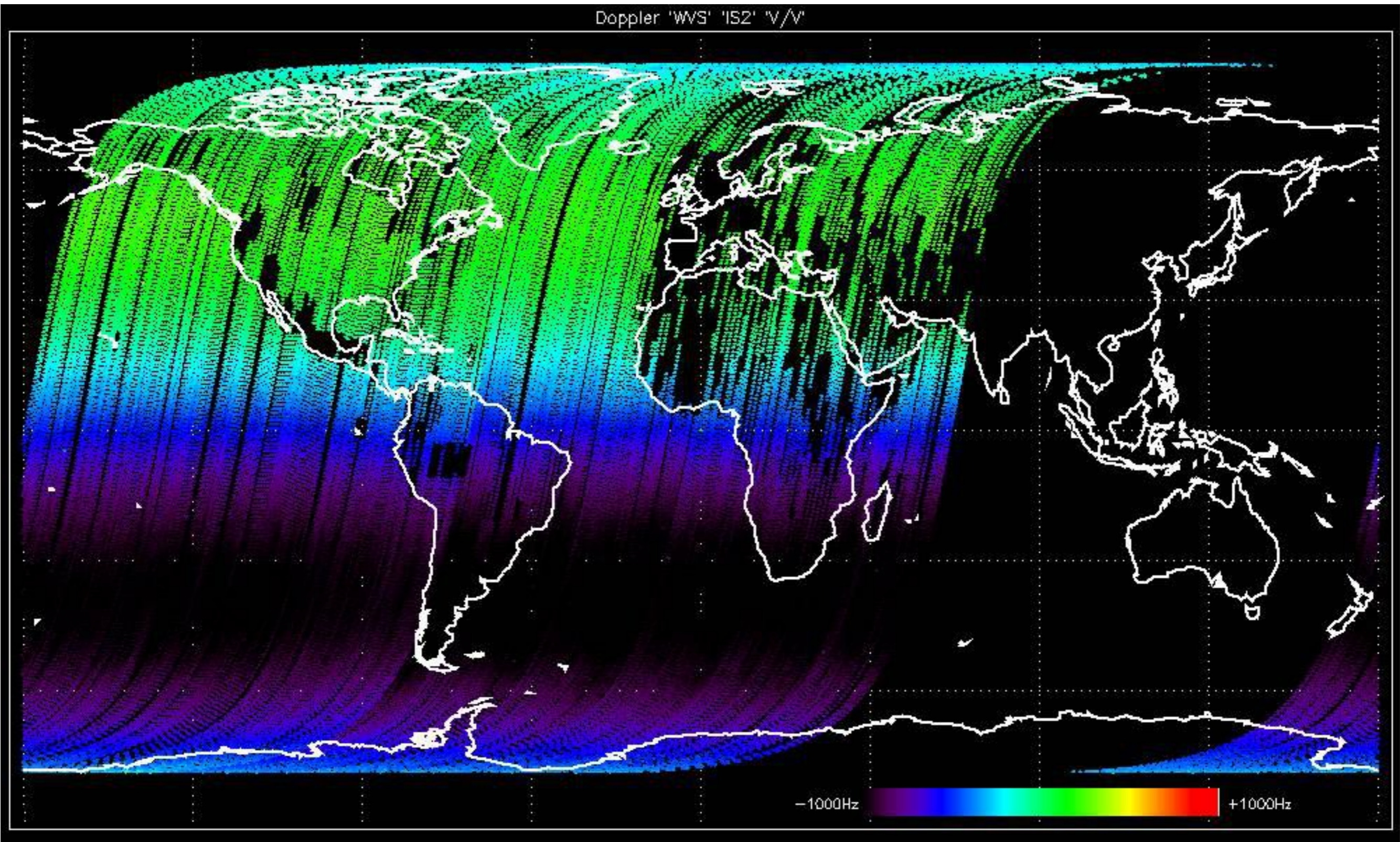
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

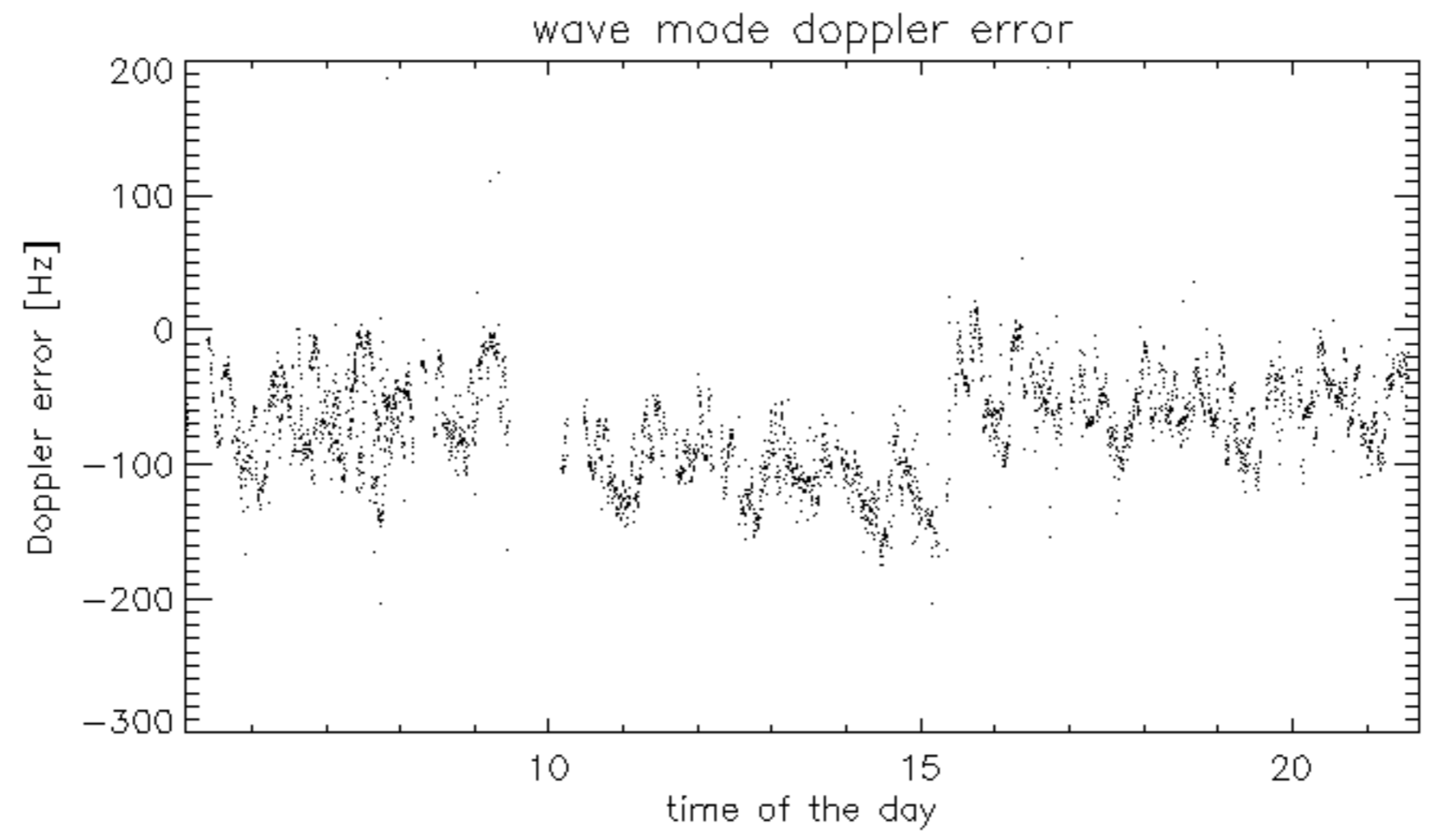
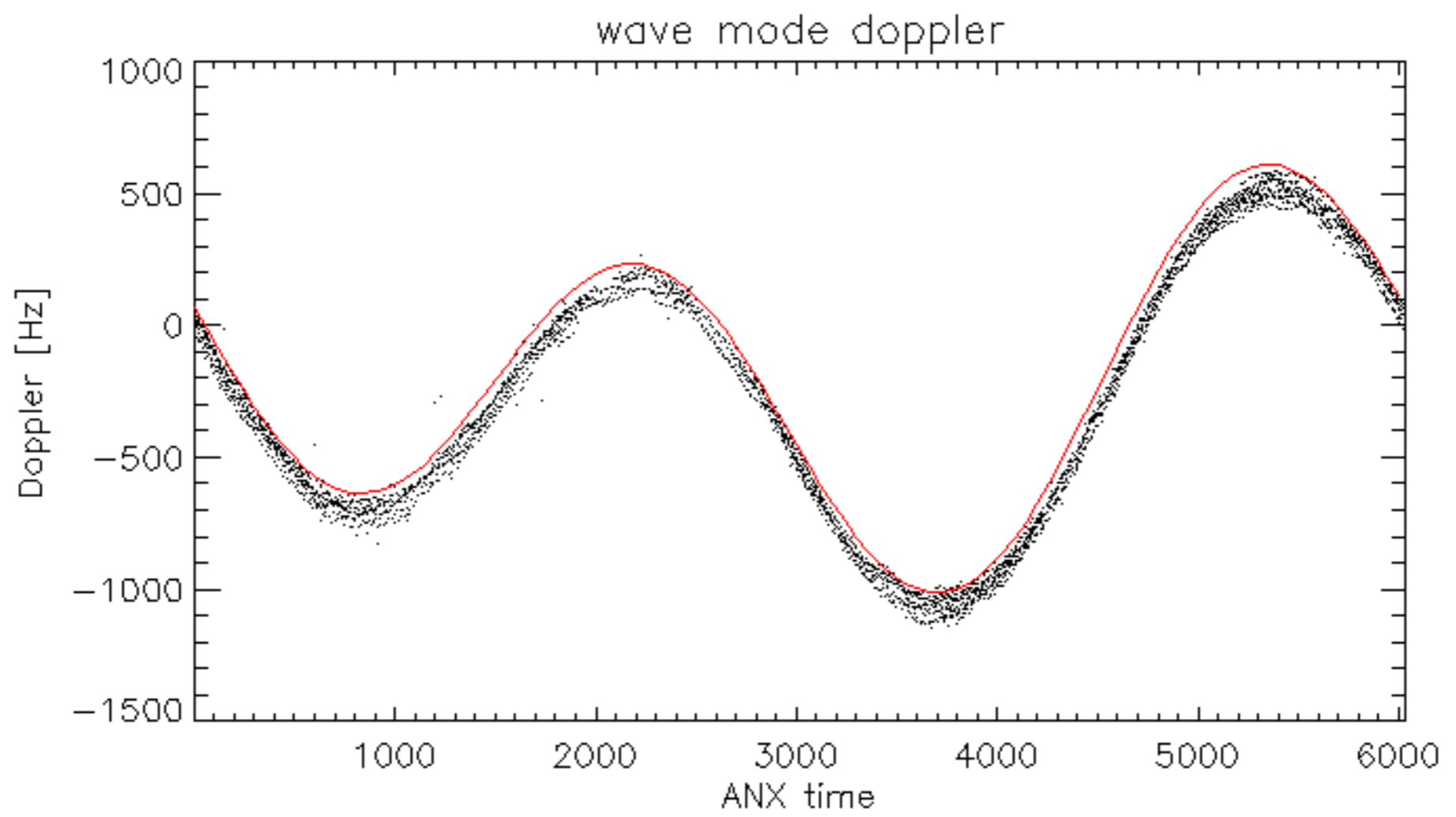
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days.

Doppler 'WVS' 'IS2' 'H/H'

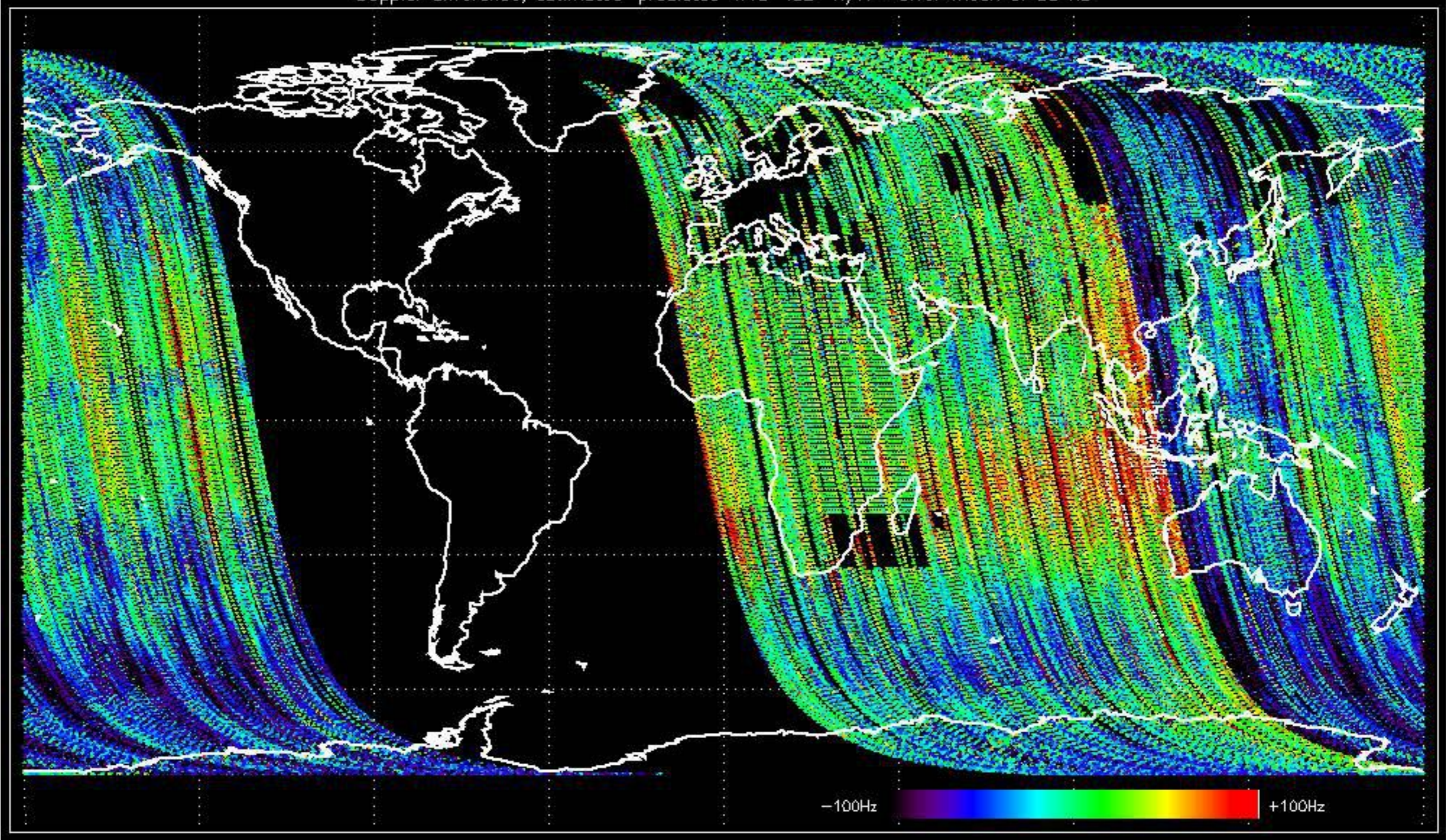


Doppler 'WVS' 'IS2' 'V/V'

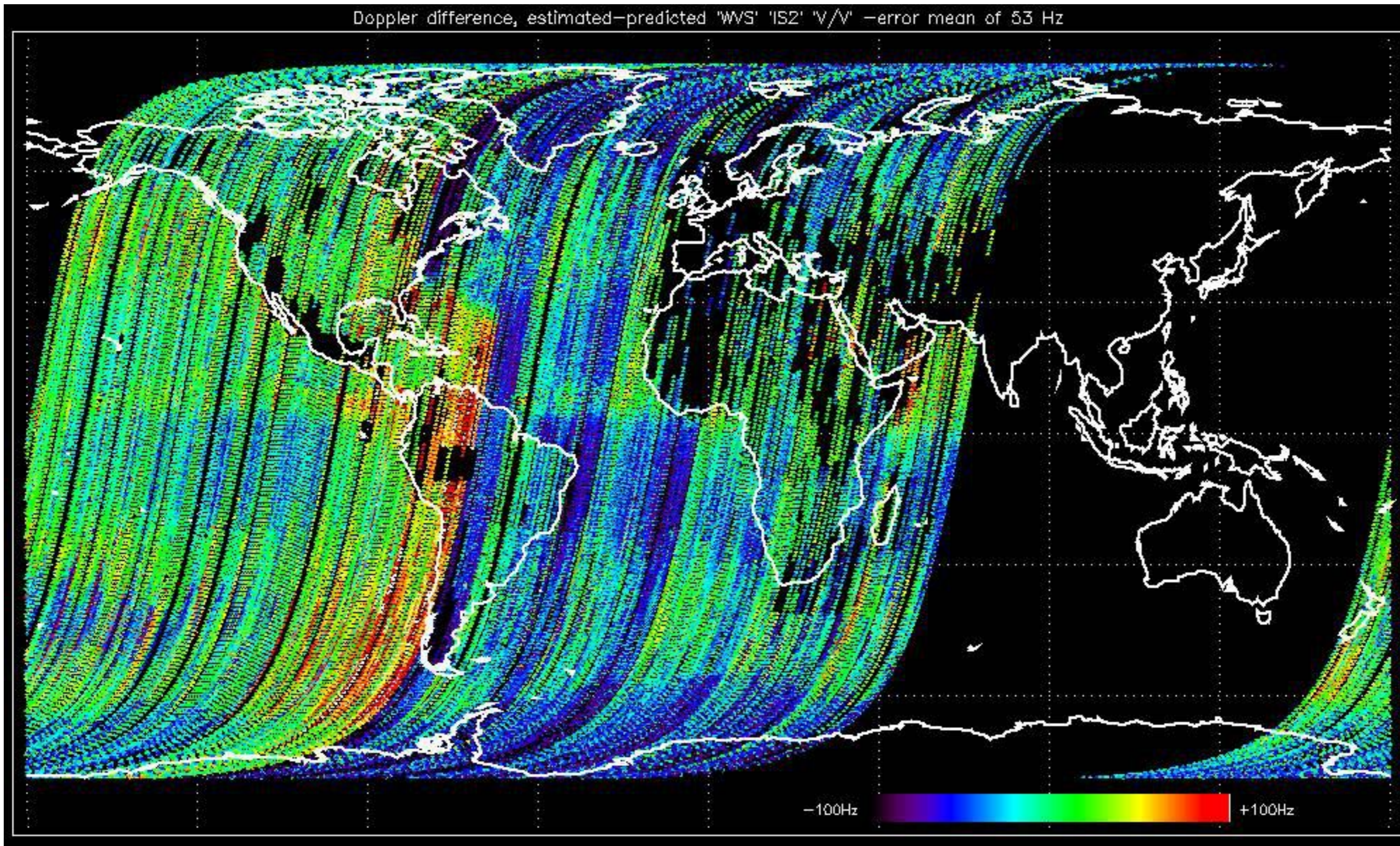




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz

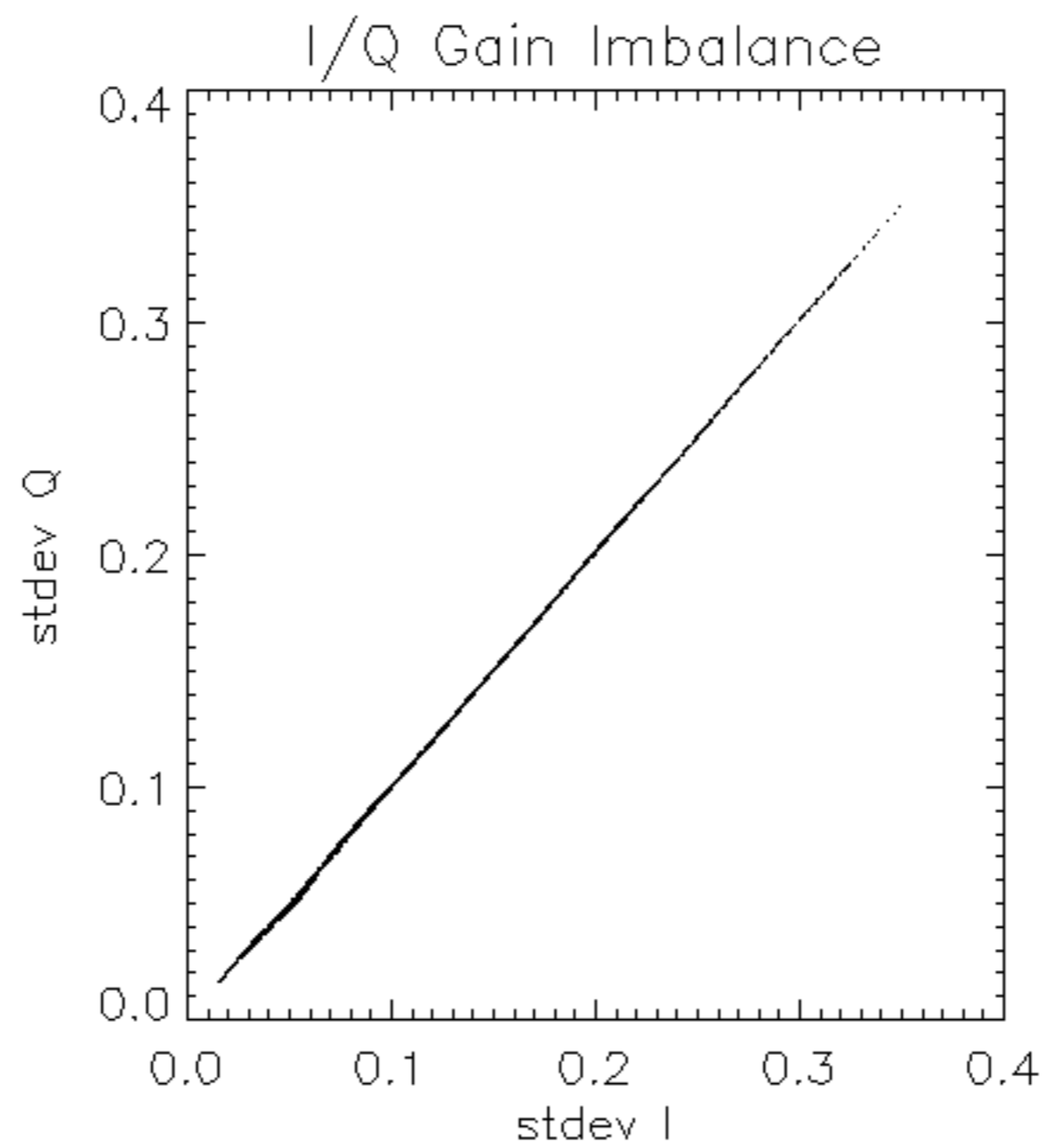


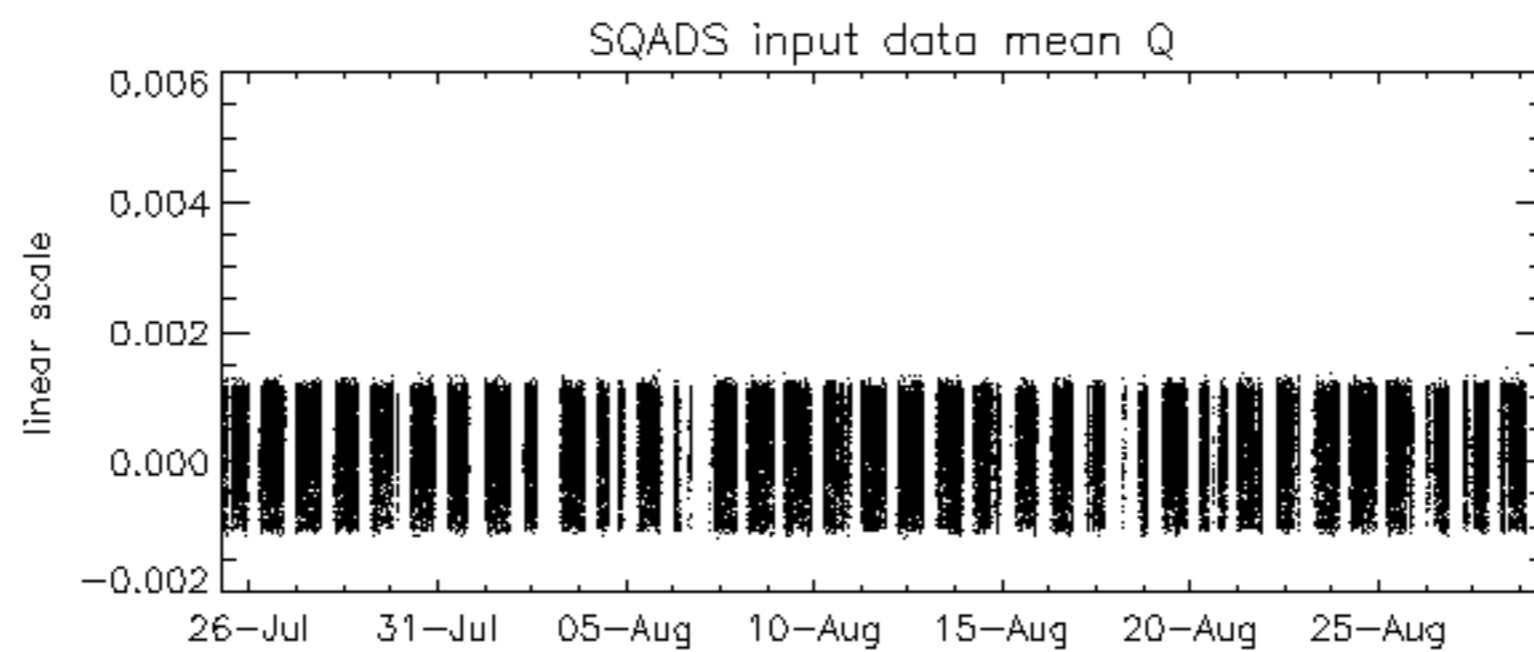
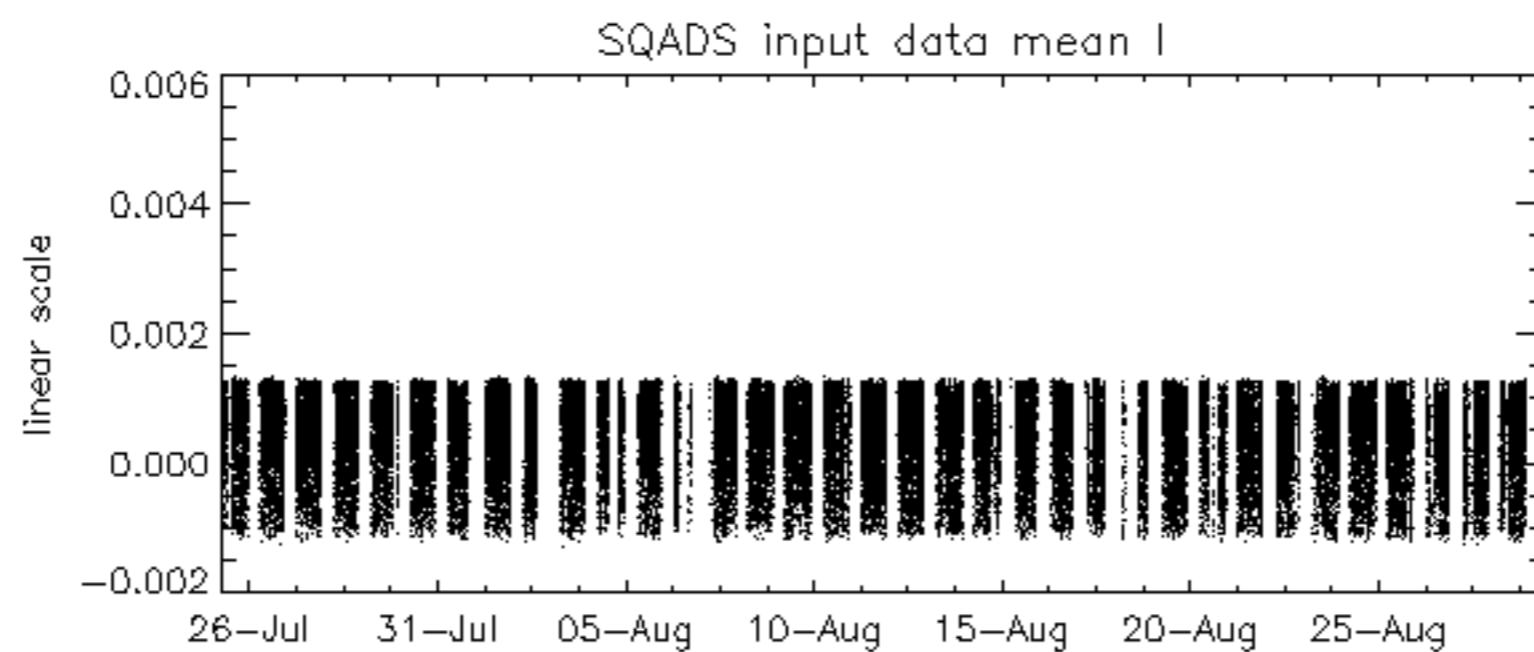
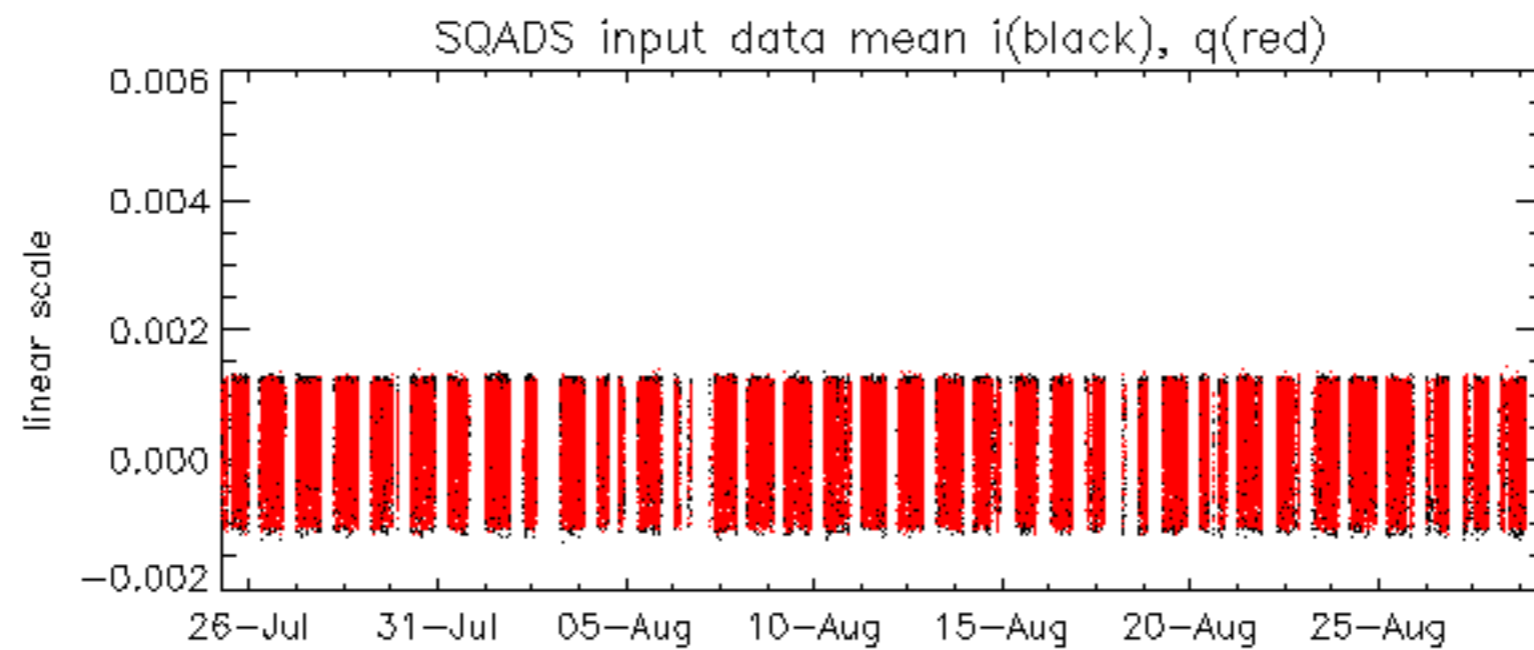
Doppler difference, estimated-predicted 'WS' 'IS2' 'V/V' -error mean of 53 Hz

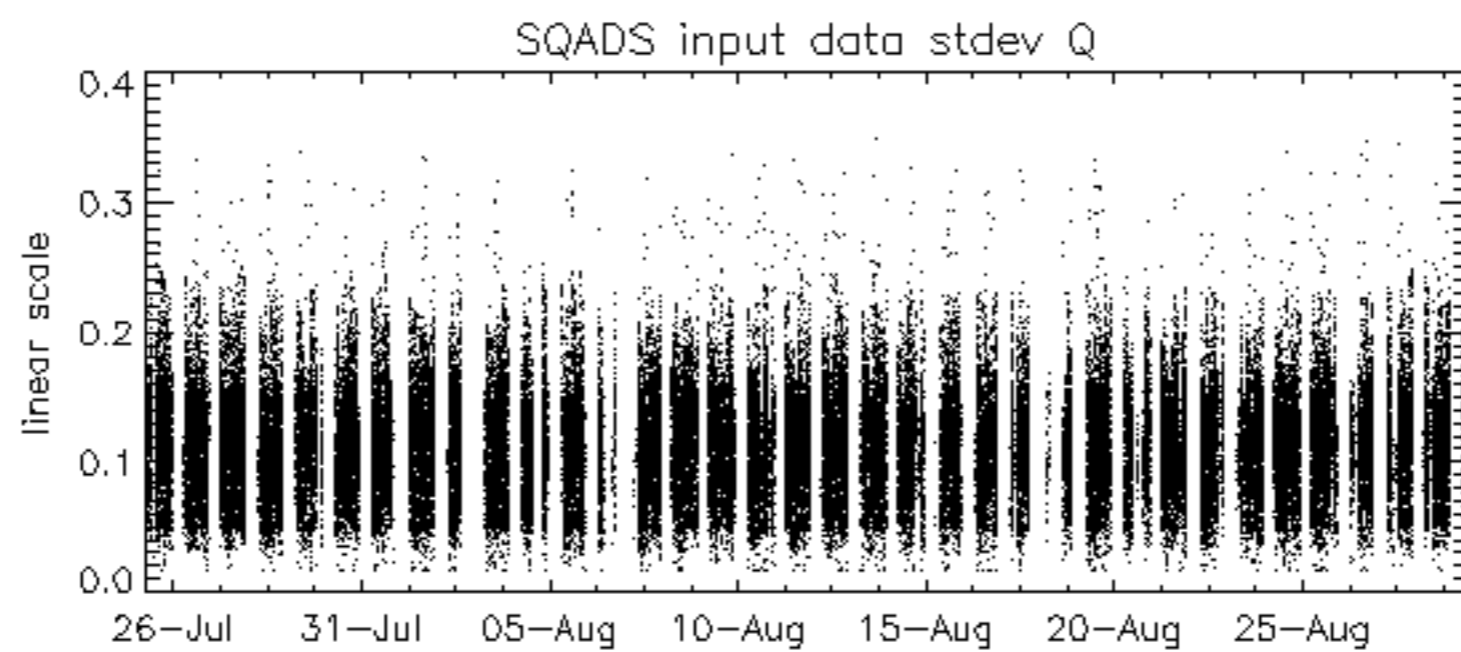
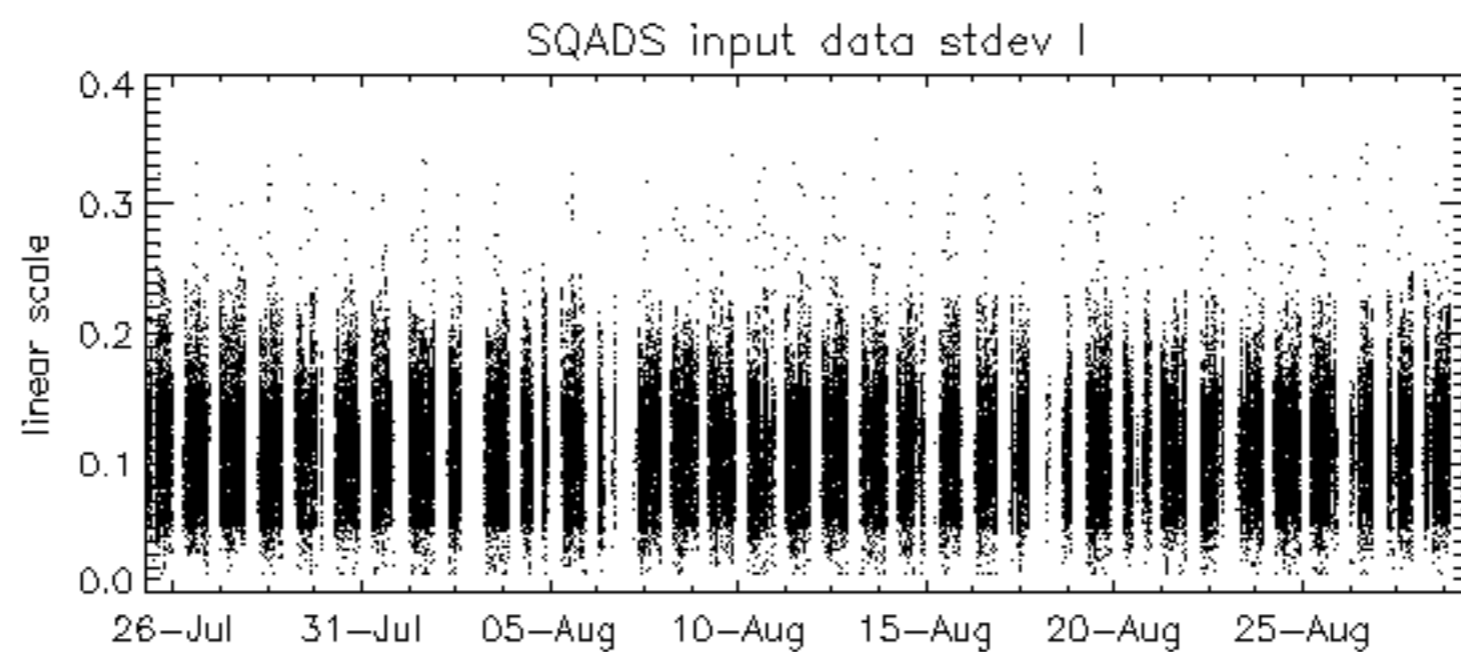
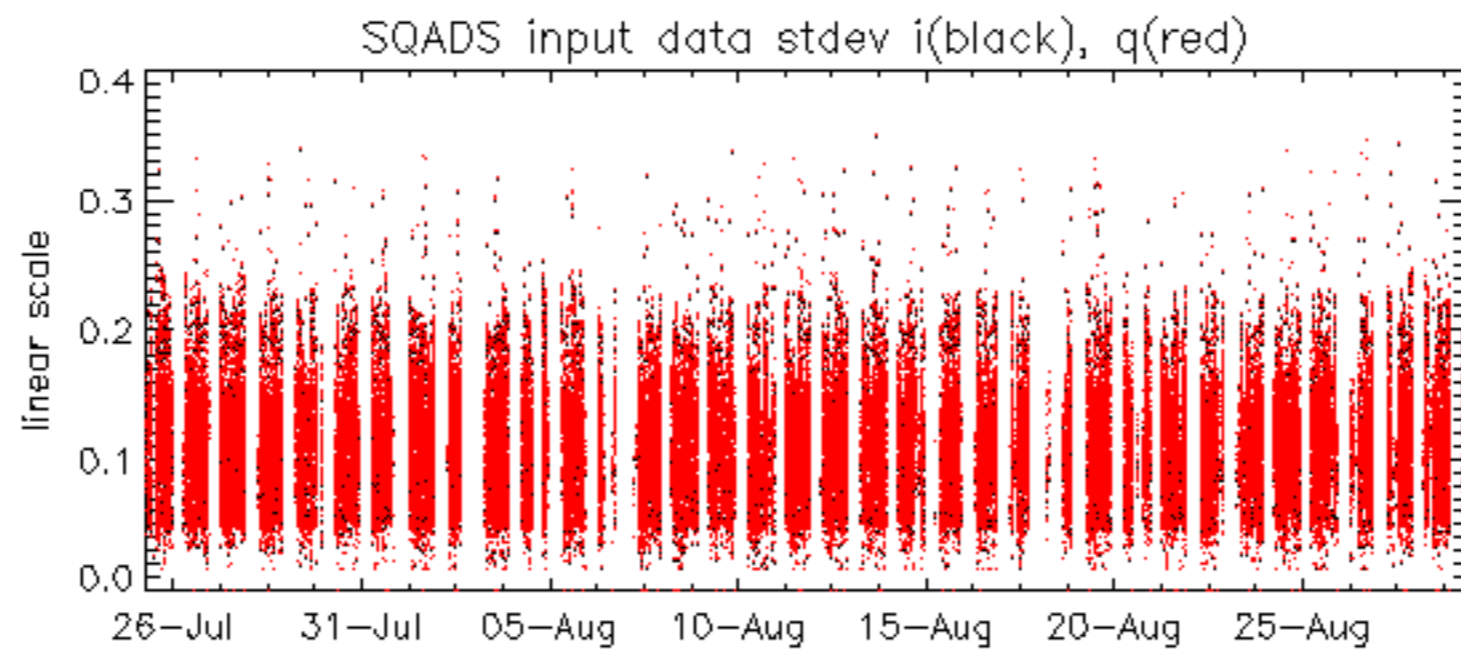


No anomalies observed on available MS products:

No anomalies observed.







No unavailabilities during the reported period.