

REPORT OF 030923

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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	20030922 195144
H	20030922 195004

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

No anomalies observed.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79571	-22.5353	-8.12695
	stdev	0.00482872	0.0617591	0.00258978
10	mean	-6.89896	-19.3086	-8.12695
	stdev	0.0292067	0.0555807	0.00258978



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79907	-22.5281	-8.11449
	stdev	0.00568383	0.0624963	0.00258527
10	mean	-6.89469	-19.3195	-8.11449
	stdev	0.0272761	0.0616356	0.00258527



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	0.000385178
	stdev	3.46004e-07
MEAN Q	mean	0.000308939
	stdev	3.16779e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.116051
	stdev	0.00146620
STDEV Q	mean	0.116274
	stdev	0.00148592



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

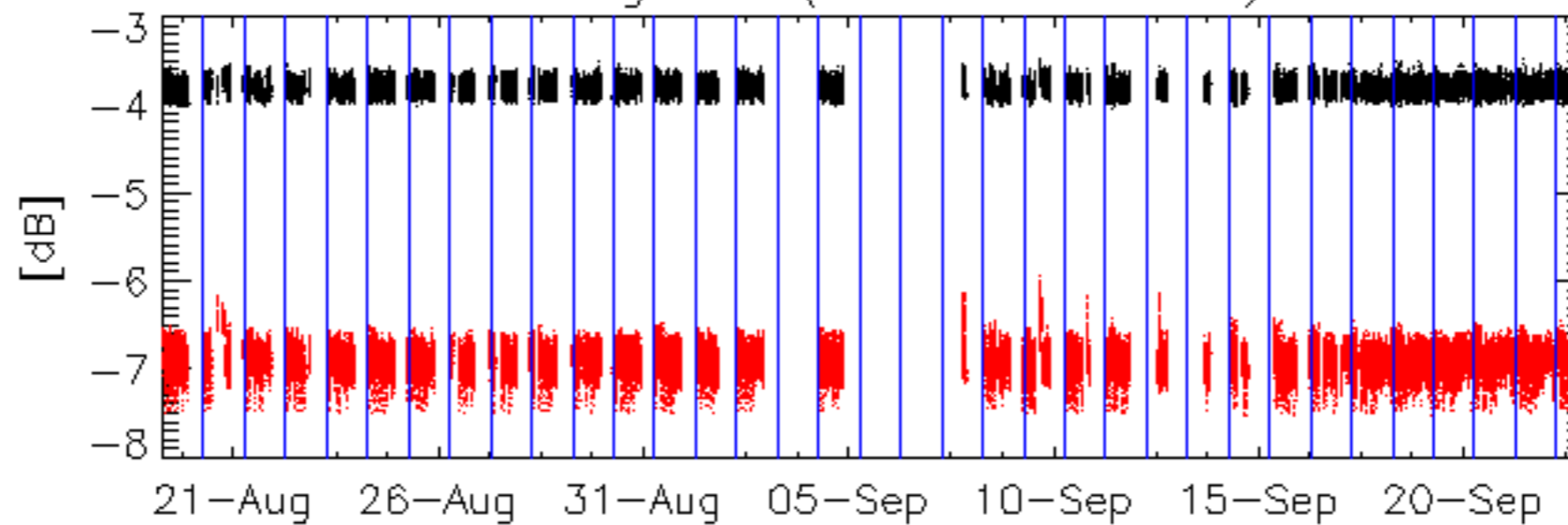
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

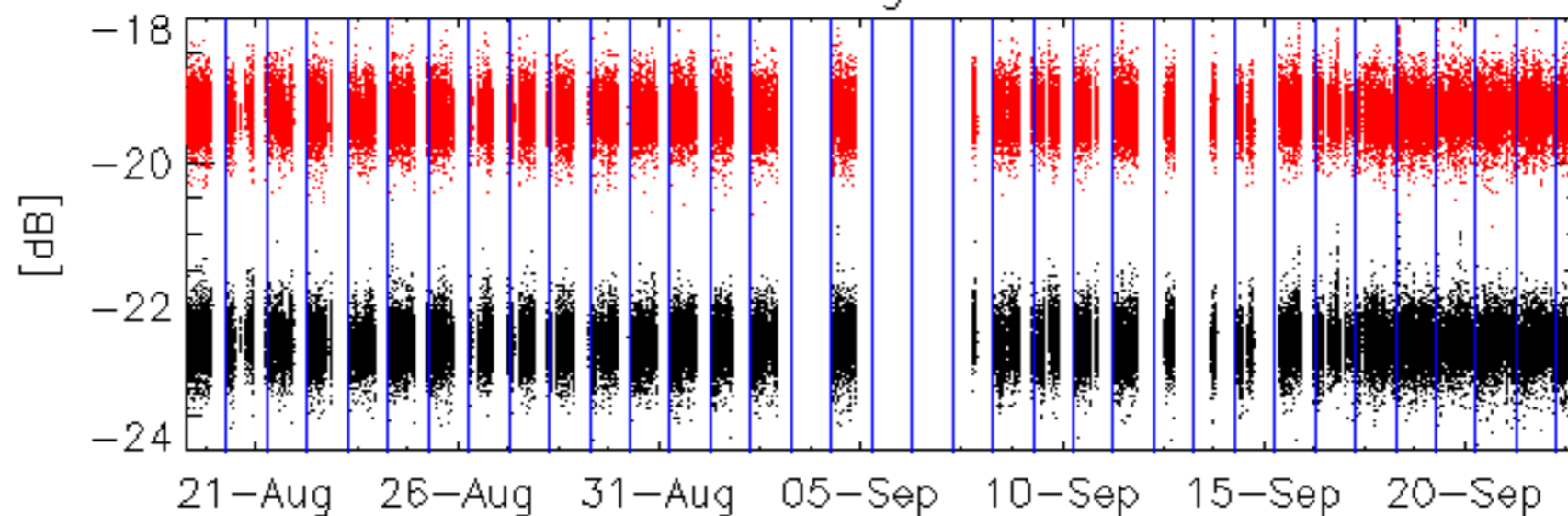
Evolution Doppler error versus ANX



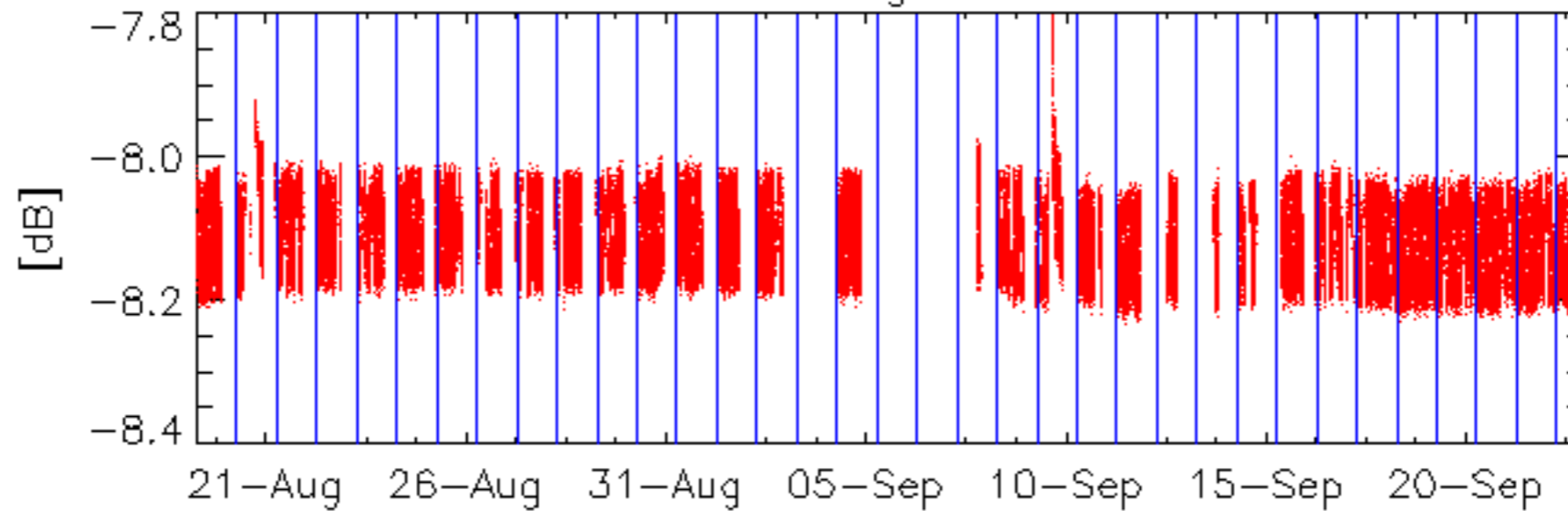
Average P1 (row 3 & row 10)

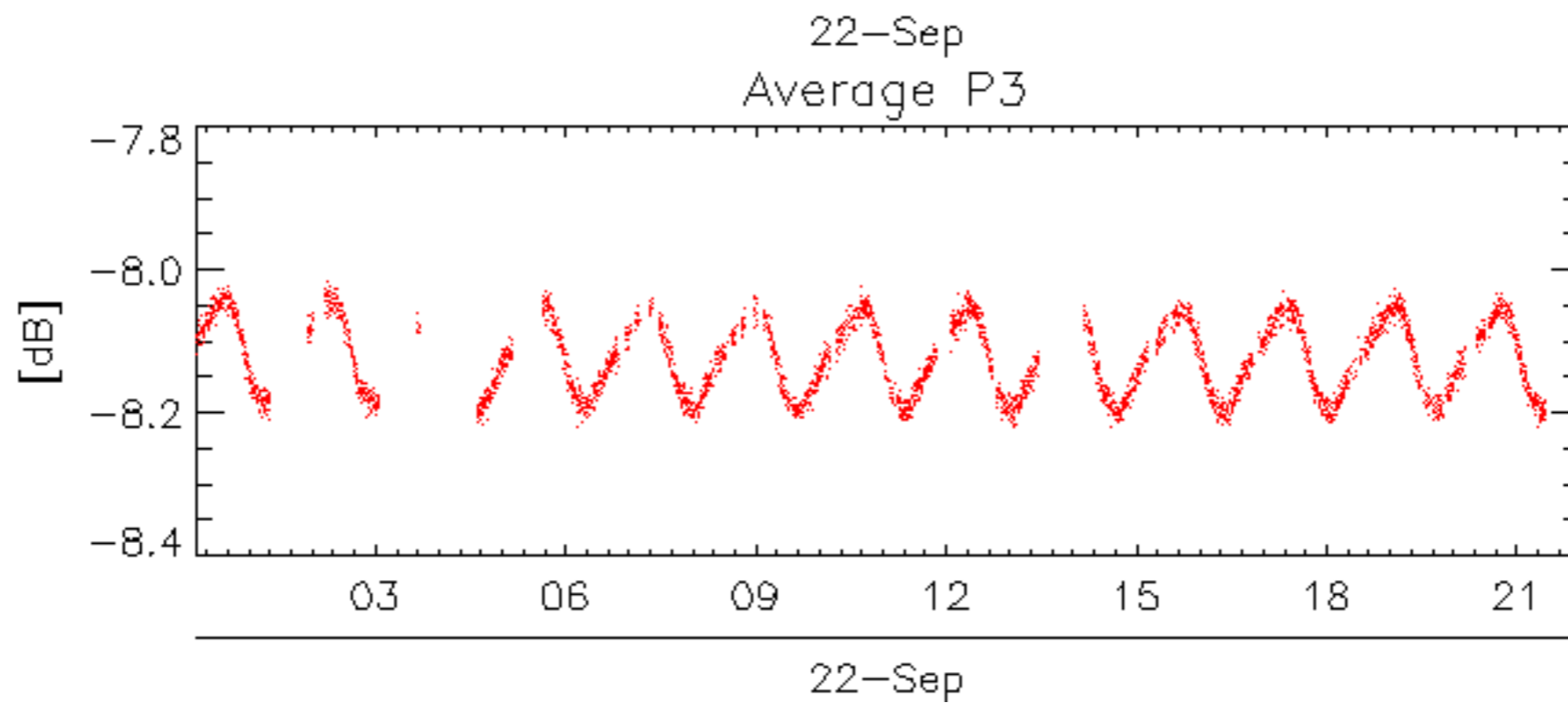
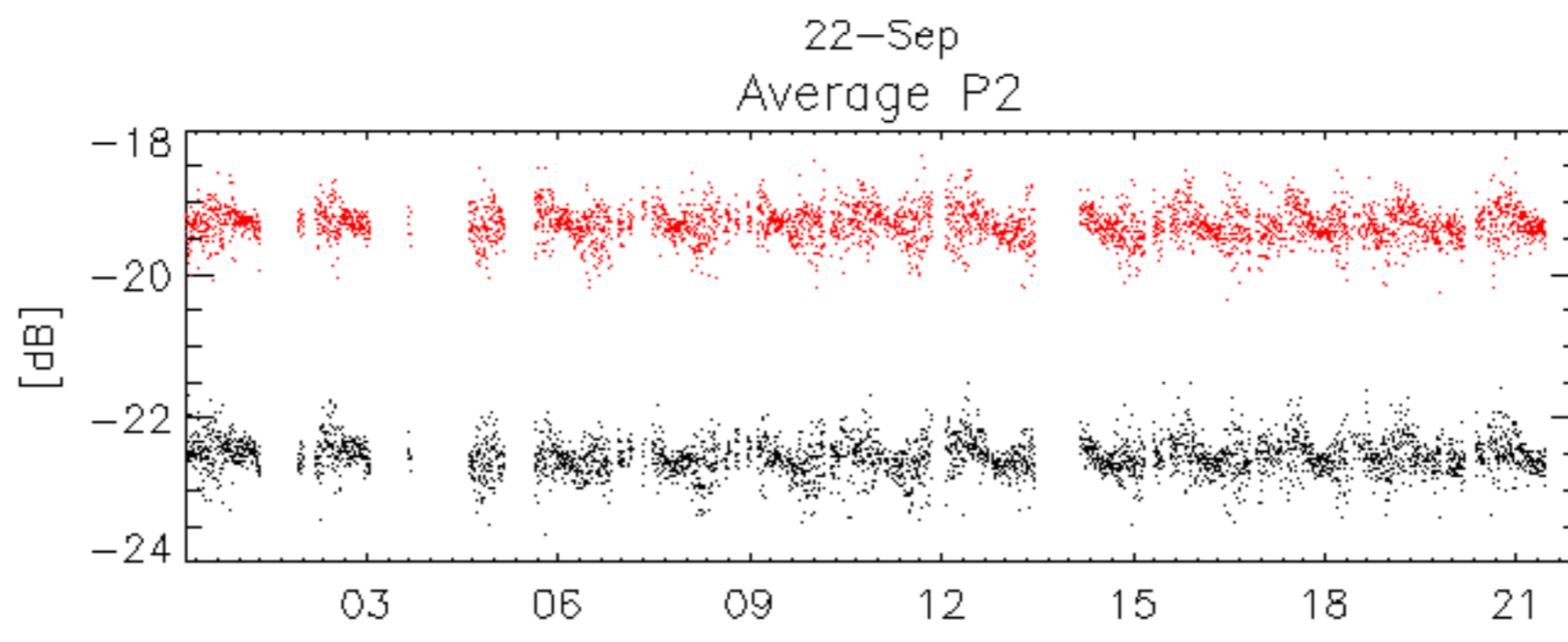
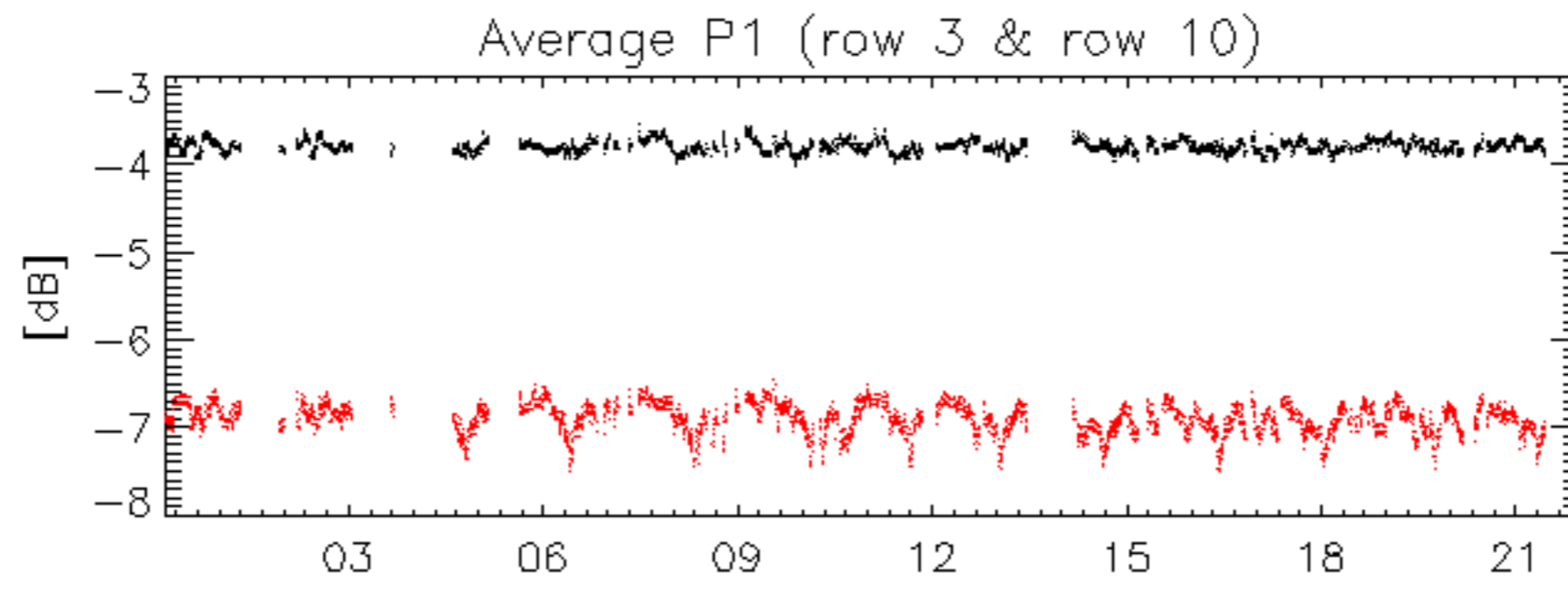


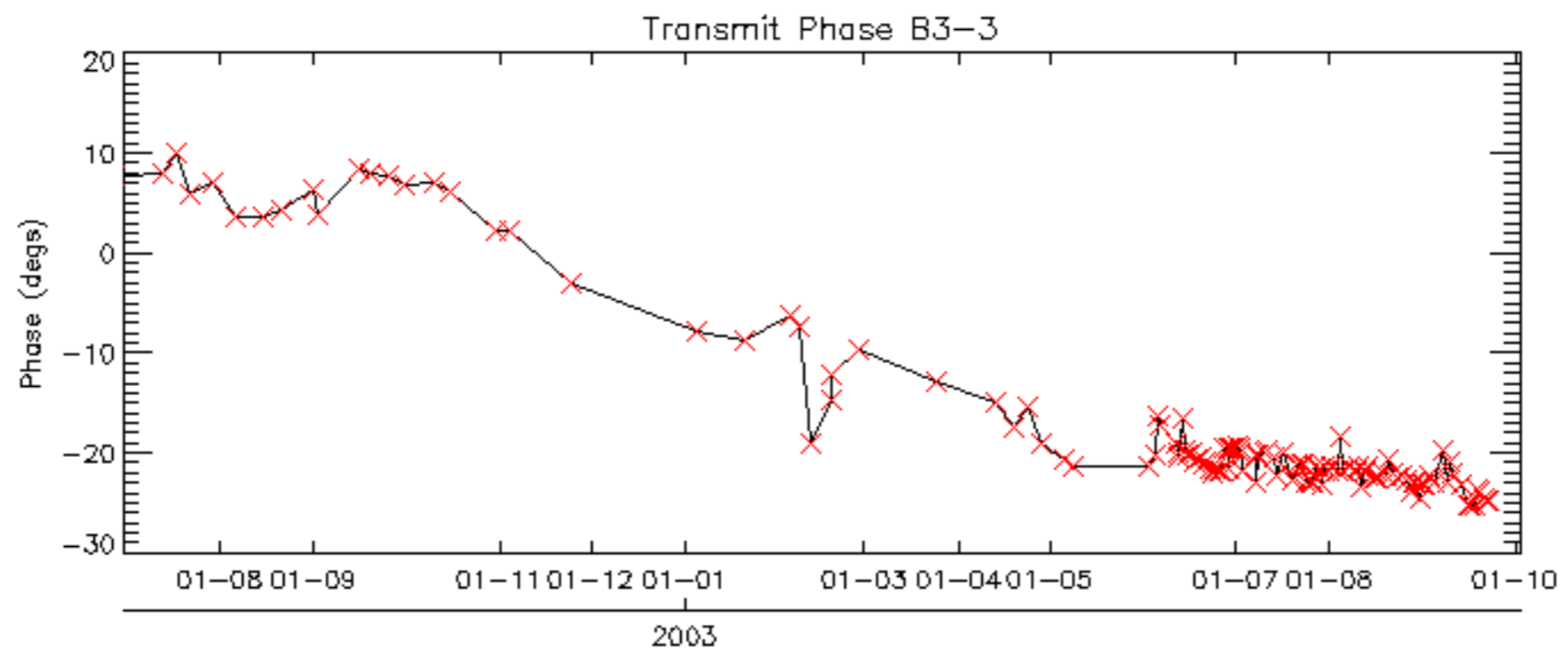
Average P2



Average P3

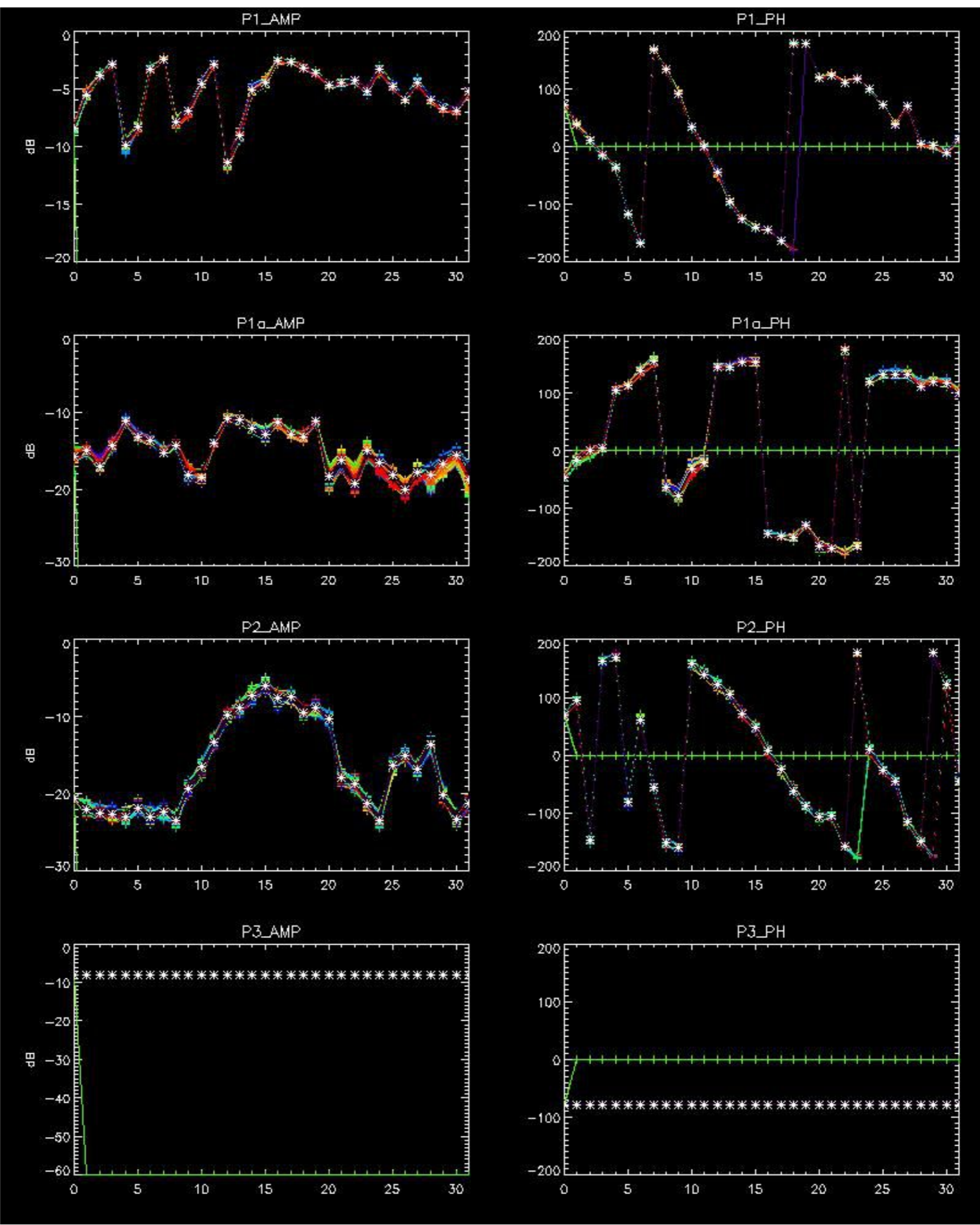






No anomalies observed on available browse products

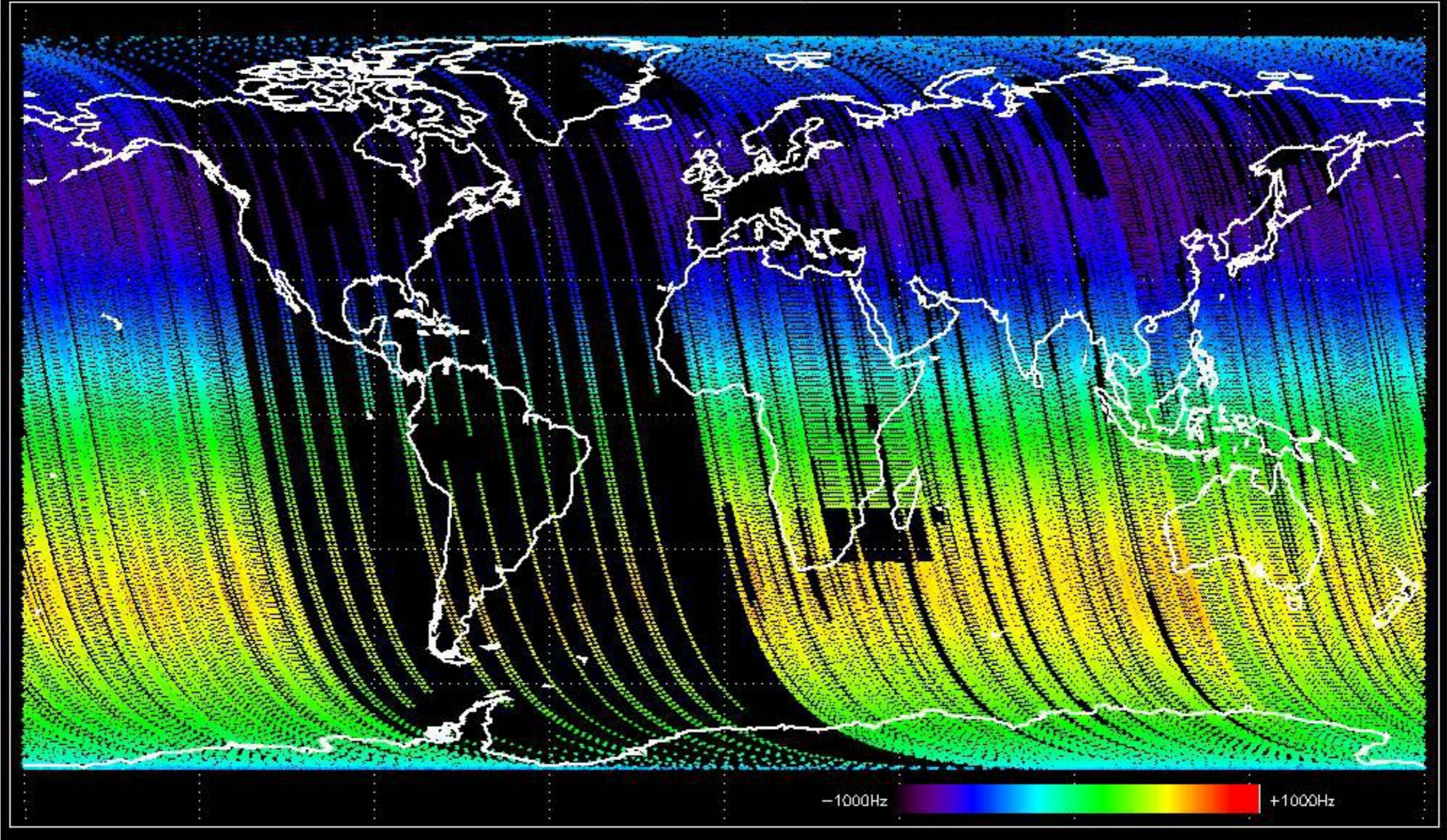
No anomalies observed.



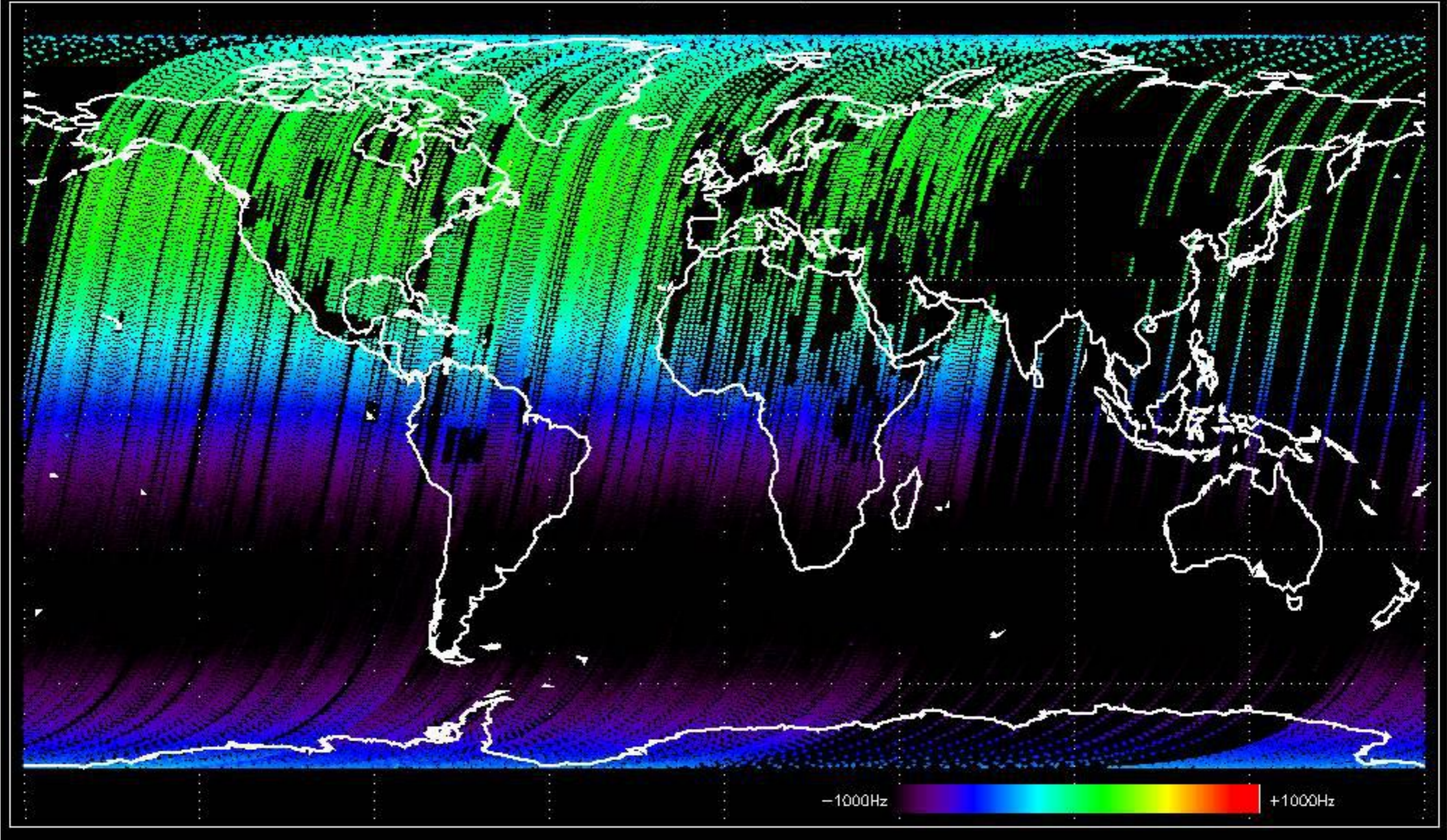
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

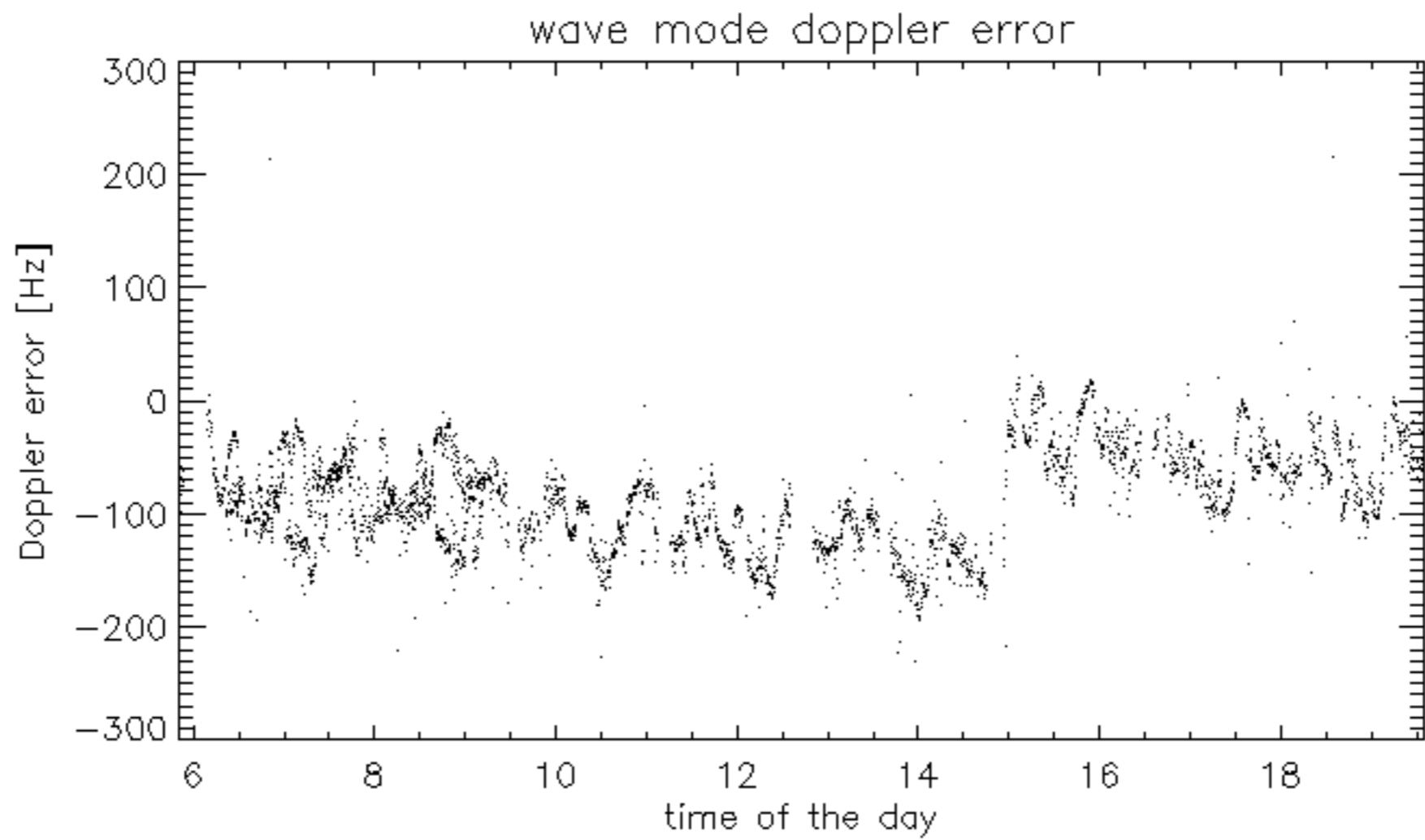
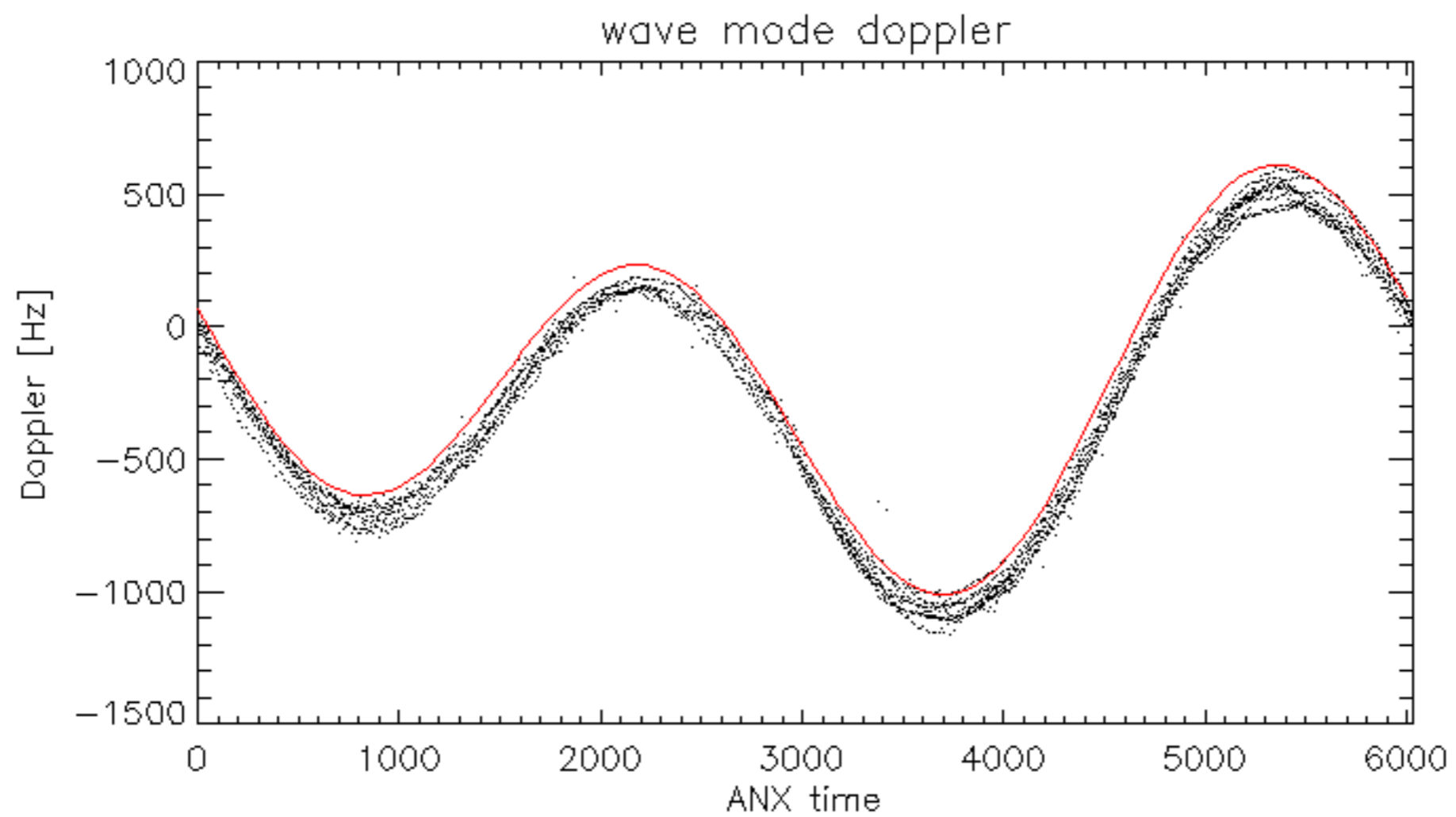
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

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

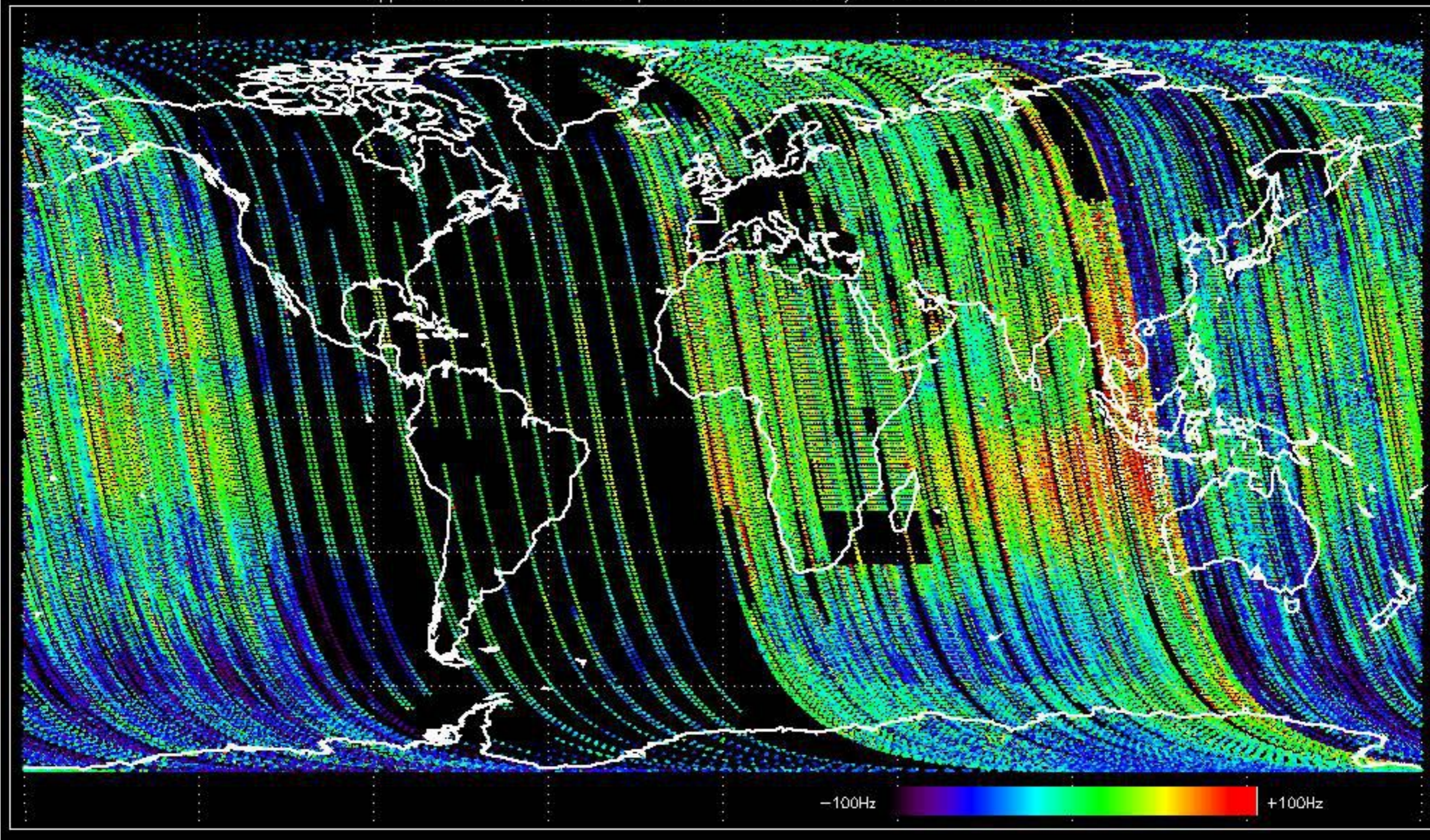


Doppler 'WVS' 'IS2' 'V/V'

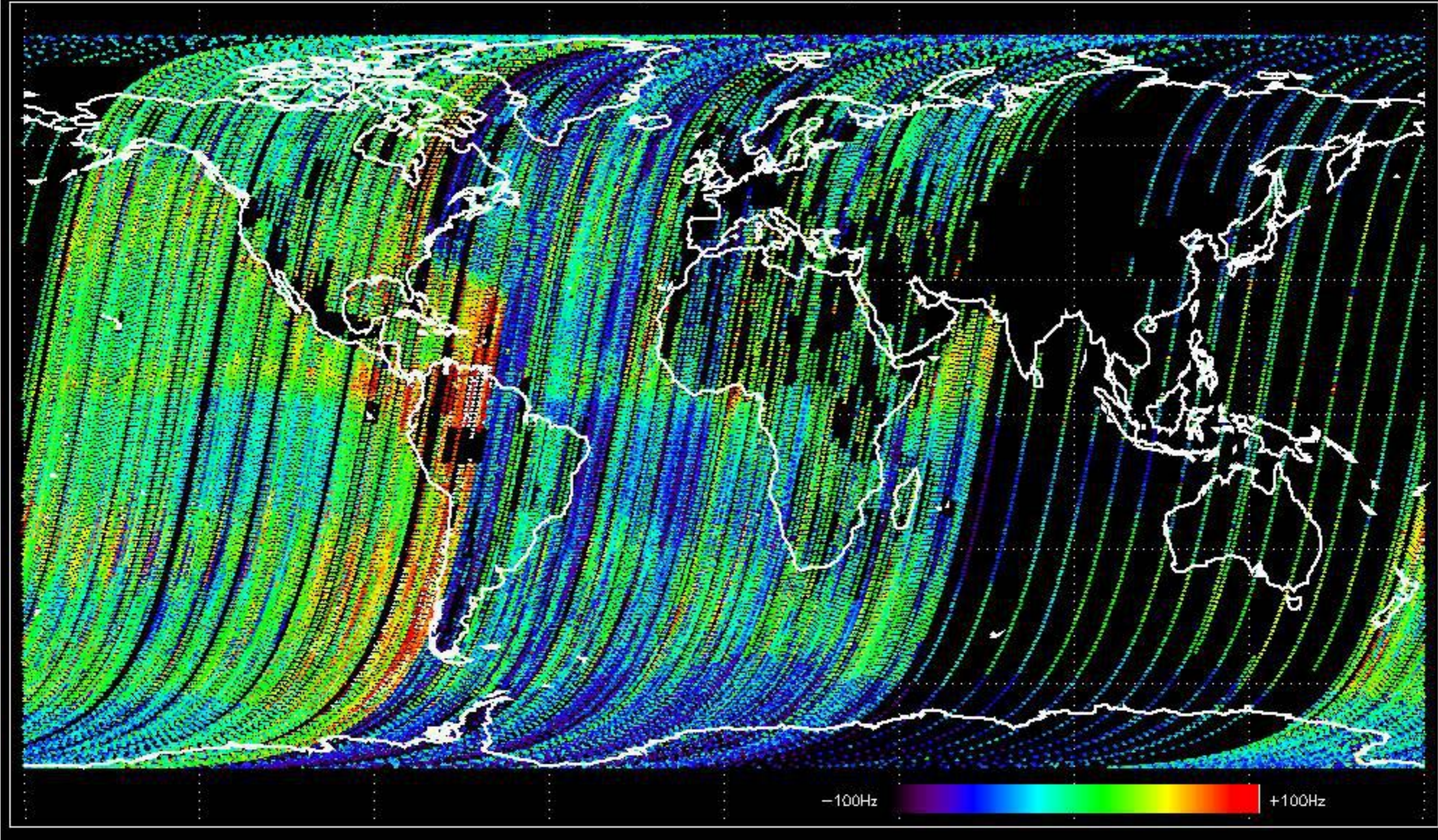




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



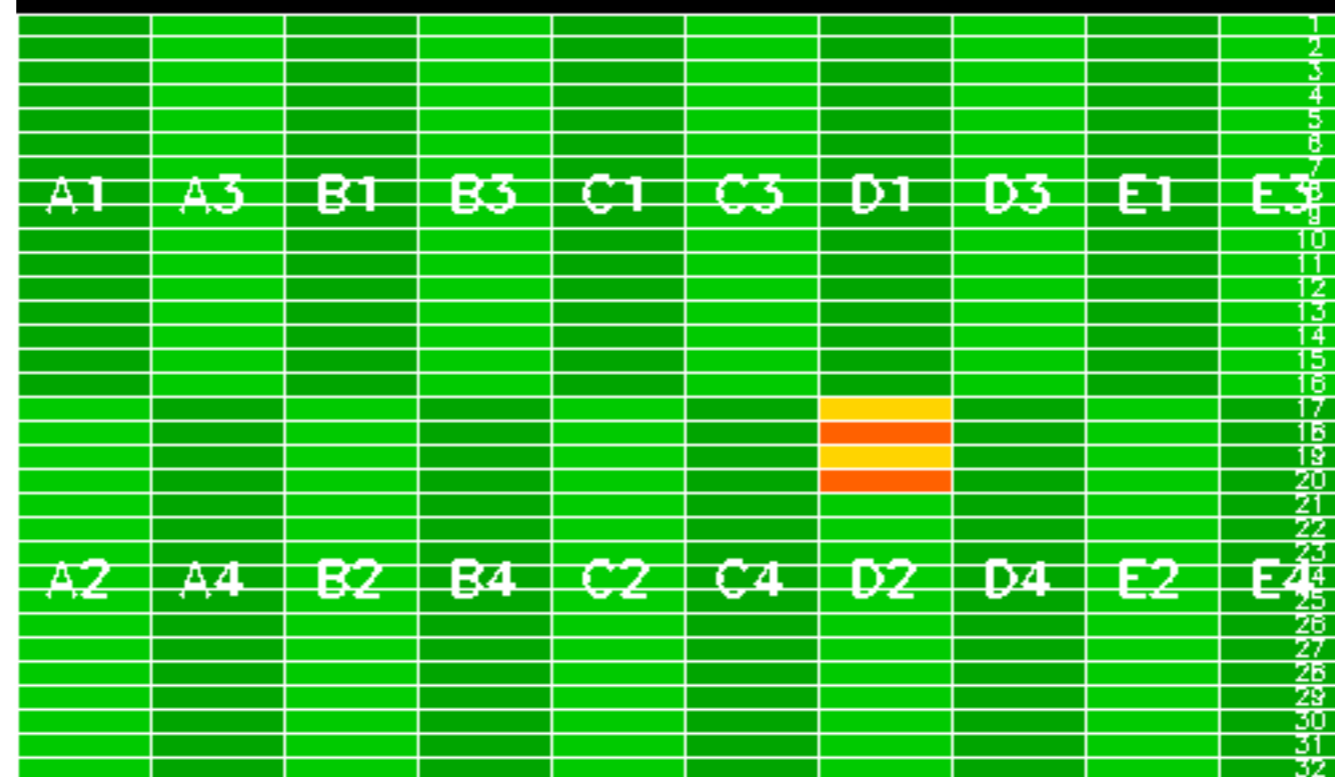
No anomalies observed on available MS products:

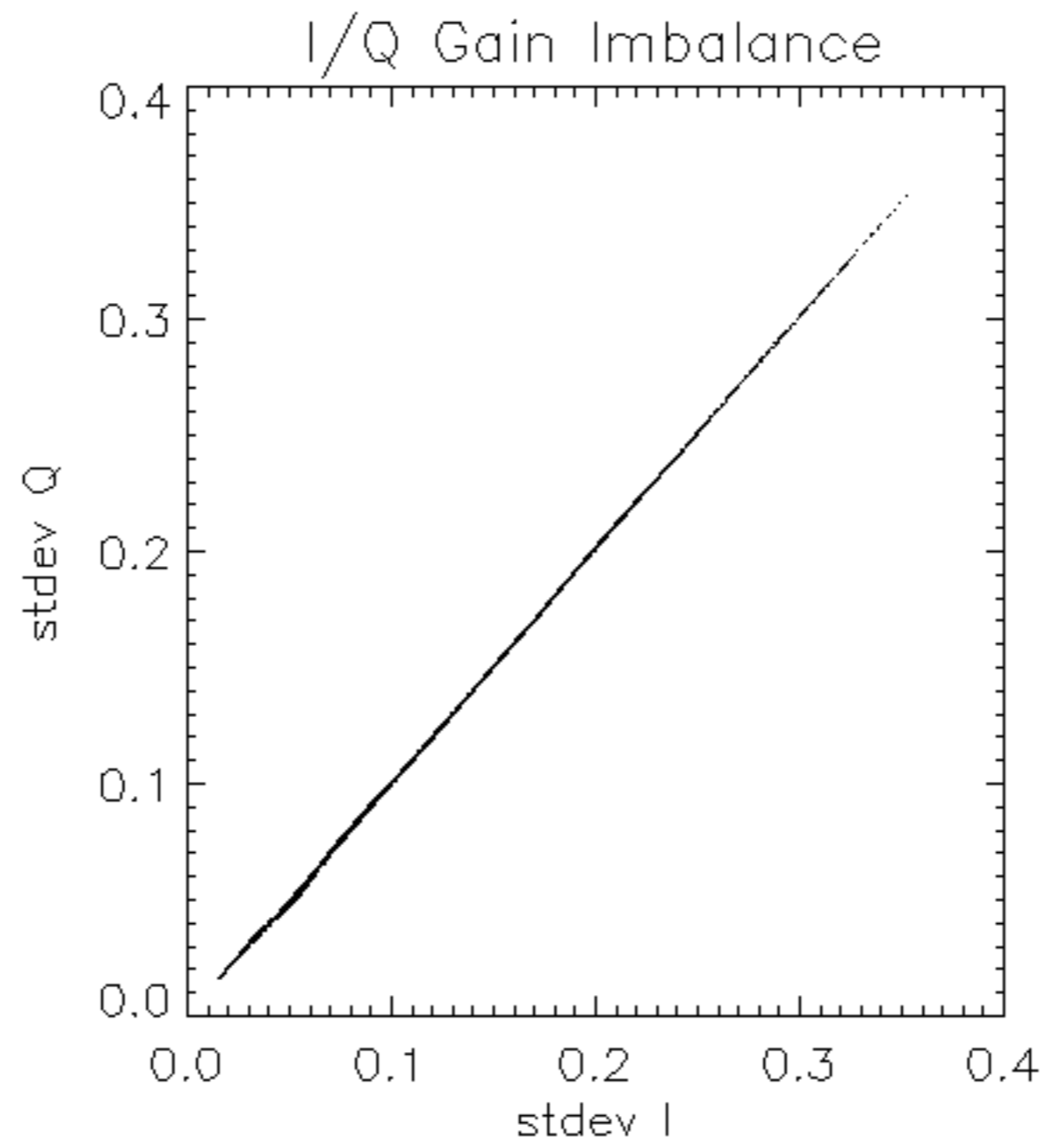
No anomalies observed.

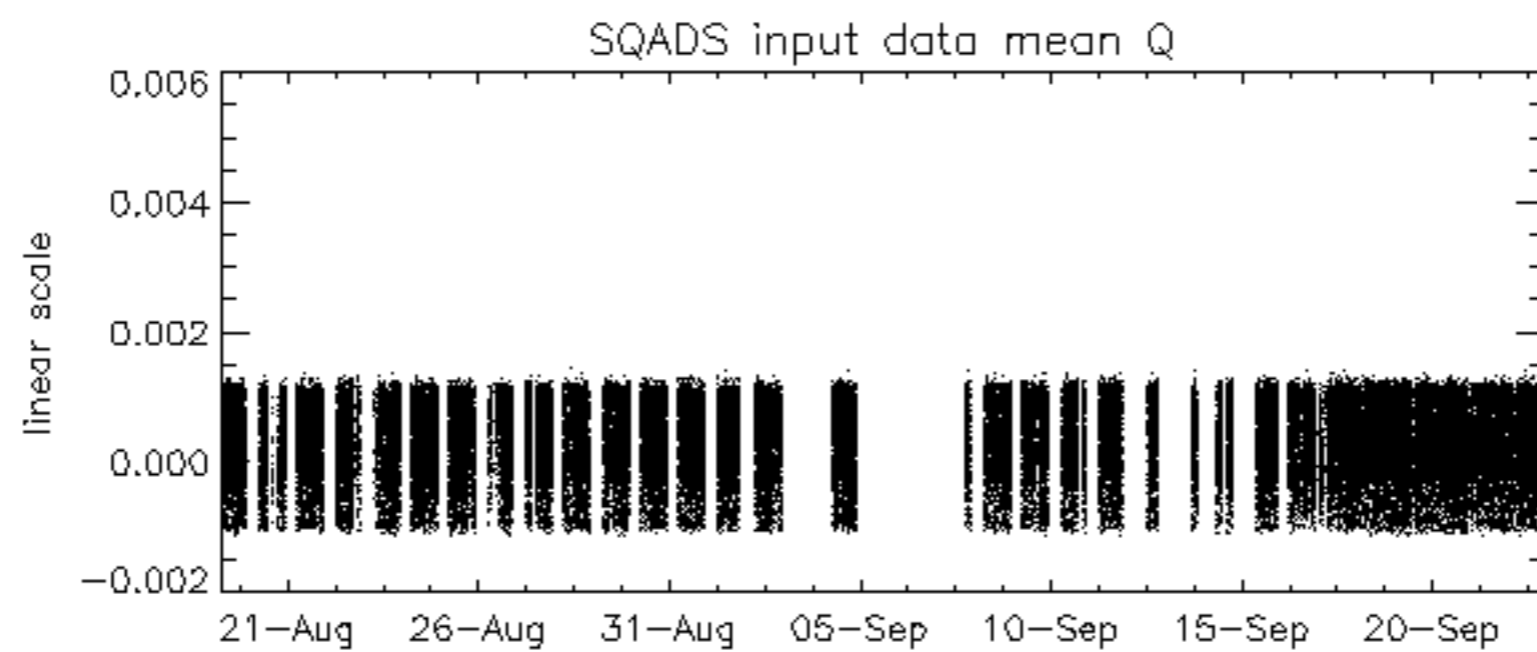
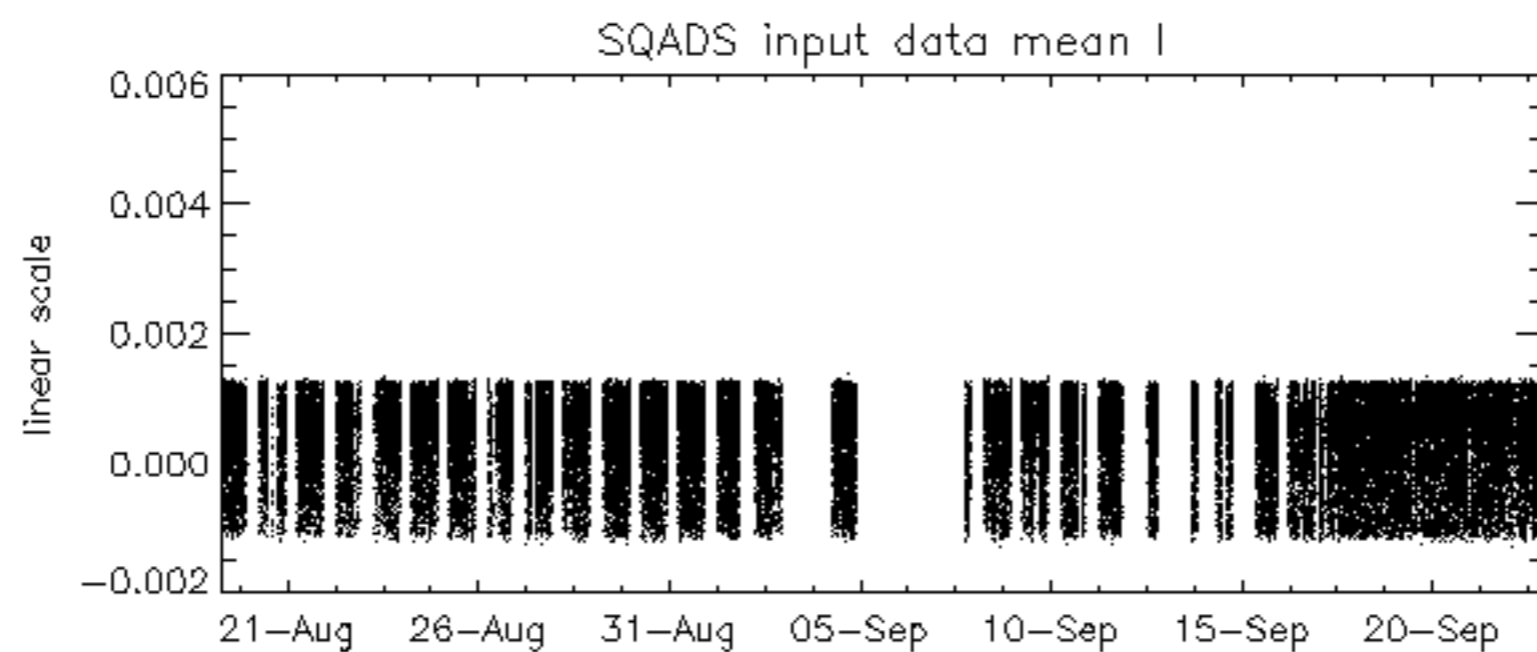
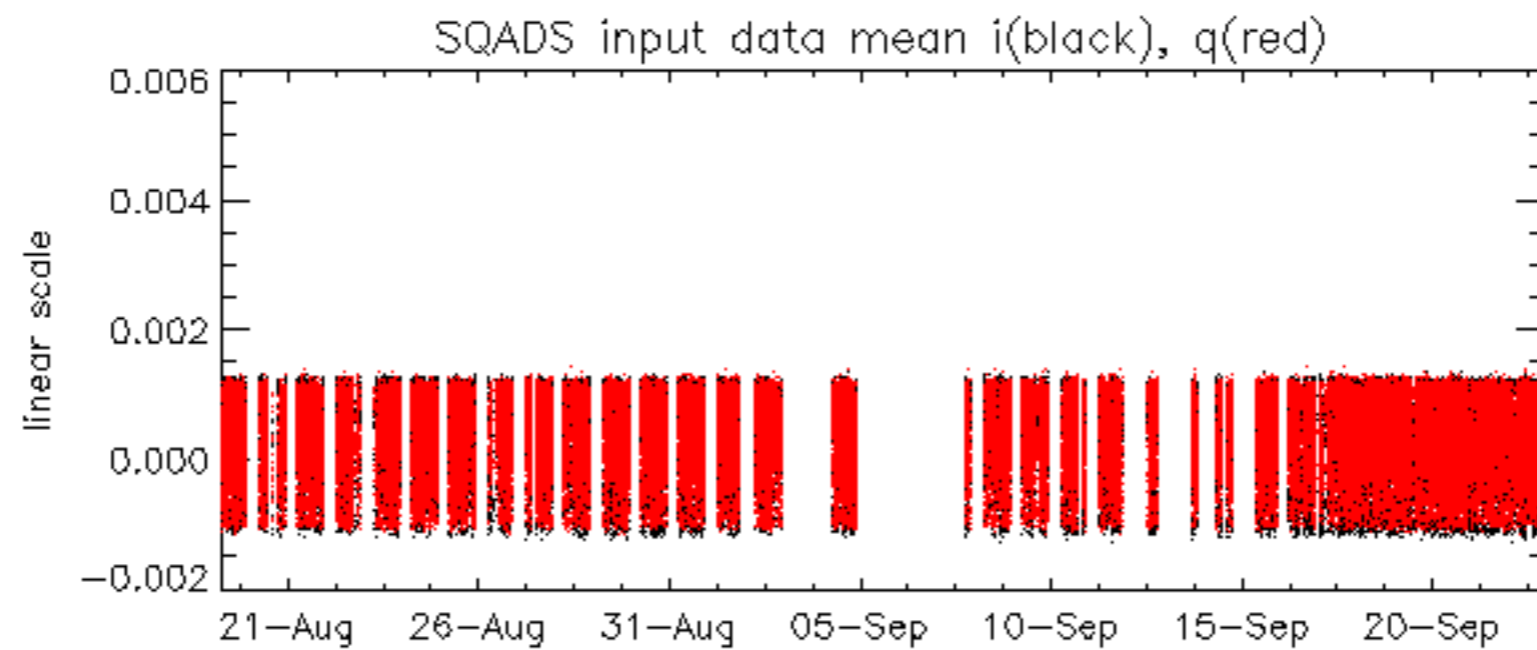
Reference: 2003-06-12 14:10:32 V

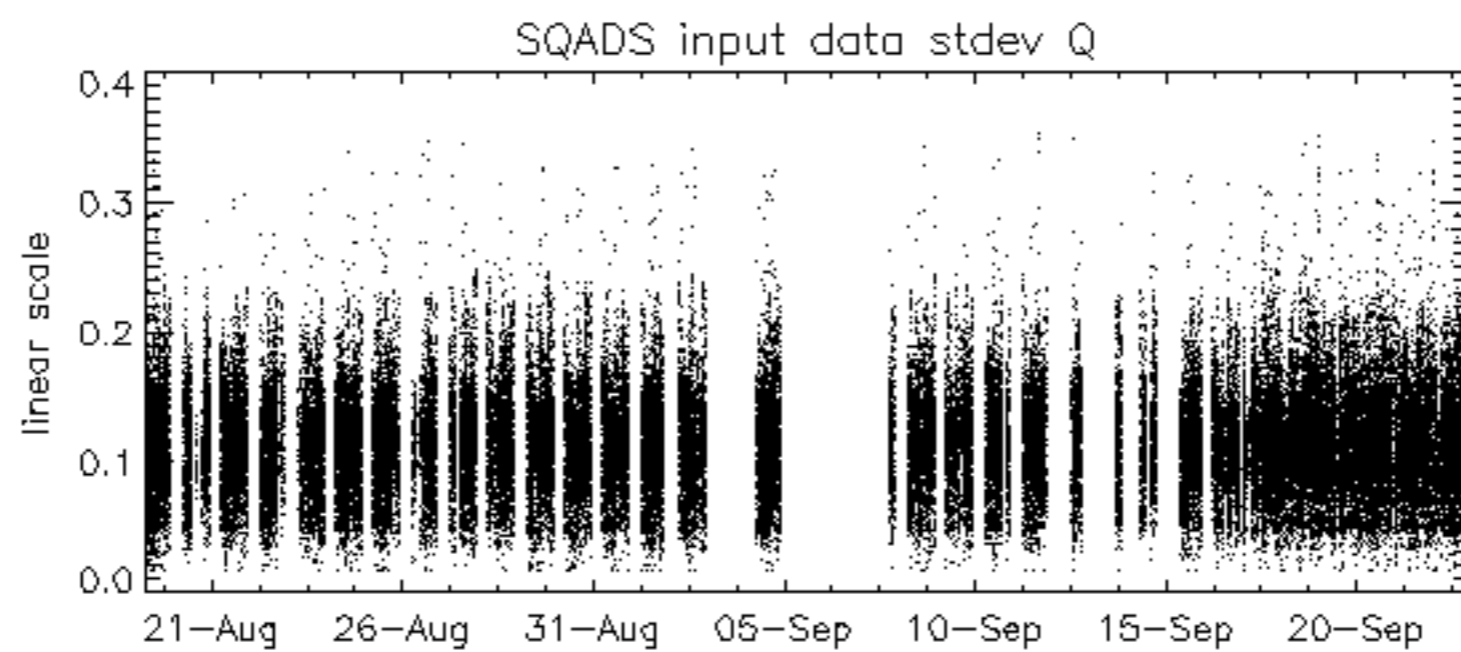
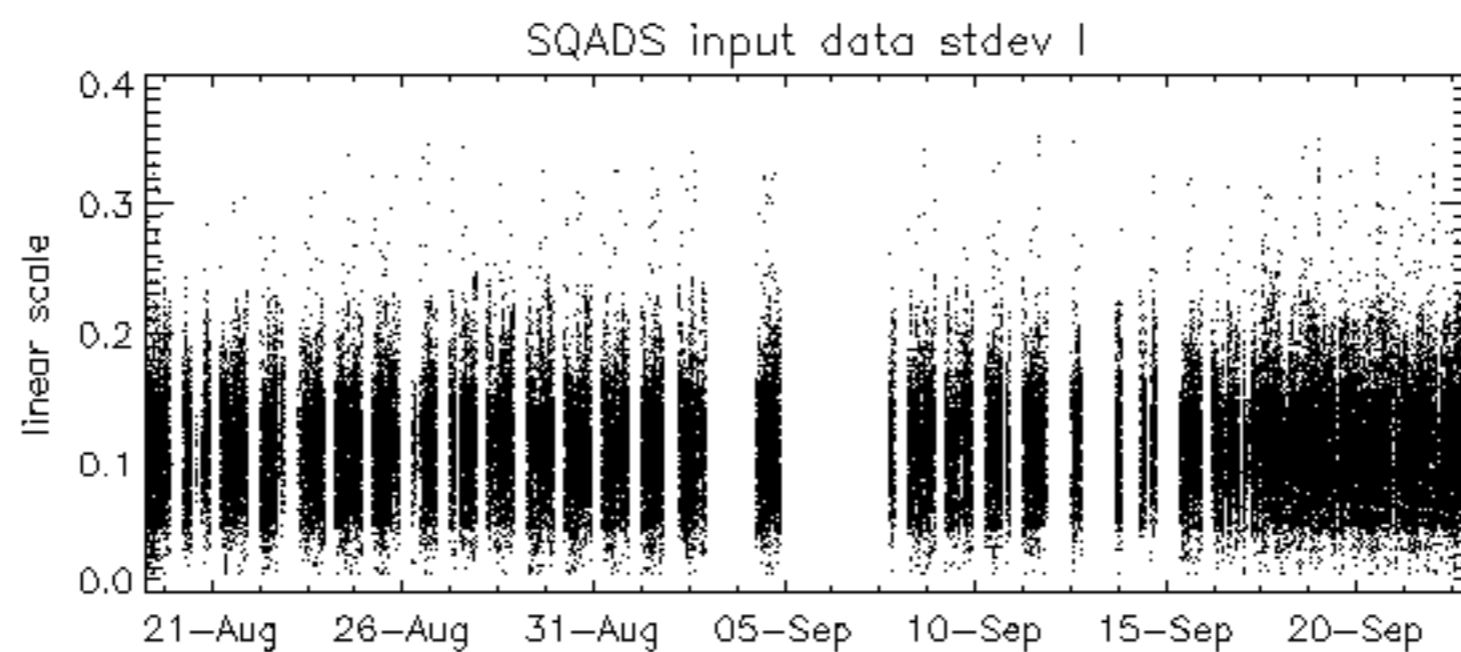
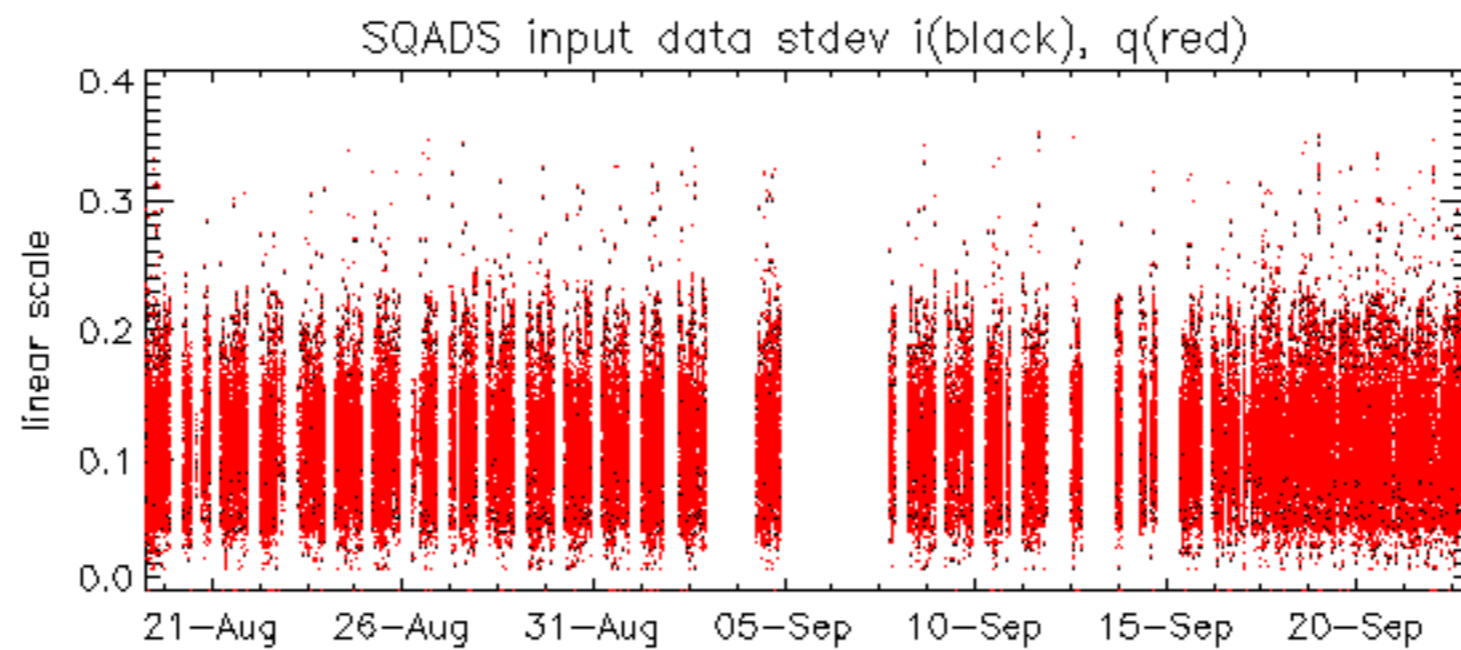
RxGain

Test : 2003-09-22 19:51:44 V









No unavailabilities during the reported period.