

REPORT OF 030924

1. [Introduction](#)
2. [Summary](#)
 - [Instrument Unavailability](#)
 - [Browse Visual Inspection](#)
 - [Module Stepping Results](#)
 - [Data Analysis](#)
3. [Module Stepping](#)
4. [Internal Calibration pulses](#)
 - [Daily statistics \(row 3 and 10\)](#)
 - [Cyclic statistics \(row 3 and 10\)](#)
 - [cal pulses monitoring \(all rows\)](#)
5. [Raw Data Statistics](#)
 - [raw data mean I and Q](#)
 - [raw data stdev I and Q](#)
 - [raw gain imbalance](#)
6. [Wave Doppler analysis](#)
 - [Unbiased Doppler Error](#)
 - [Absolute Doppler](#)
 - [Doppler evolution versus ANX](#)

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	20030923 210042
H	20030923 205902

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	-3.79315	-22.5518	-8.13654
	stdev	0.00500332	0.0618077	0.00250485
10	mean	-6.90540	-19.3137	-8.13654
	stdev	0.0265708	0.0615976	0.00250485



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79826	-22.5289	-8.11536
	stdev	0.00561852	0.0627603	0.00260134
10	mean	-6.89476	-19.3184	-8.11536
	stdev	0.0272948	0.0618442	0.00260134



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	0.000383807
	stdev	3.46953e-07
MEAN Q	mean	0.000309589
	stdev	3.15986e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.116054
	stdev	0.00146569
STDEV Q	mean	0.116276
	stdev	0.00148564



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

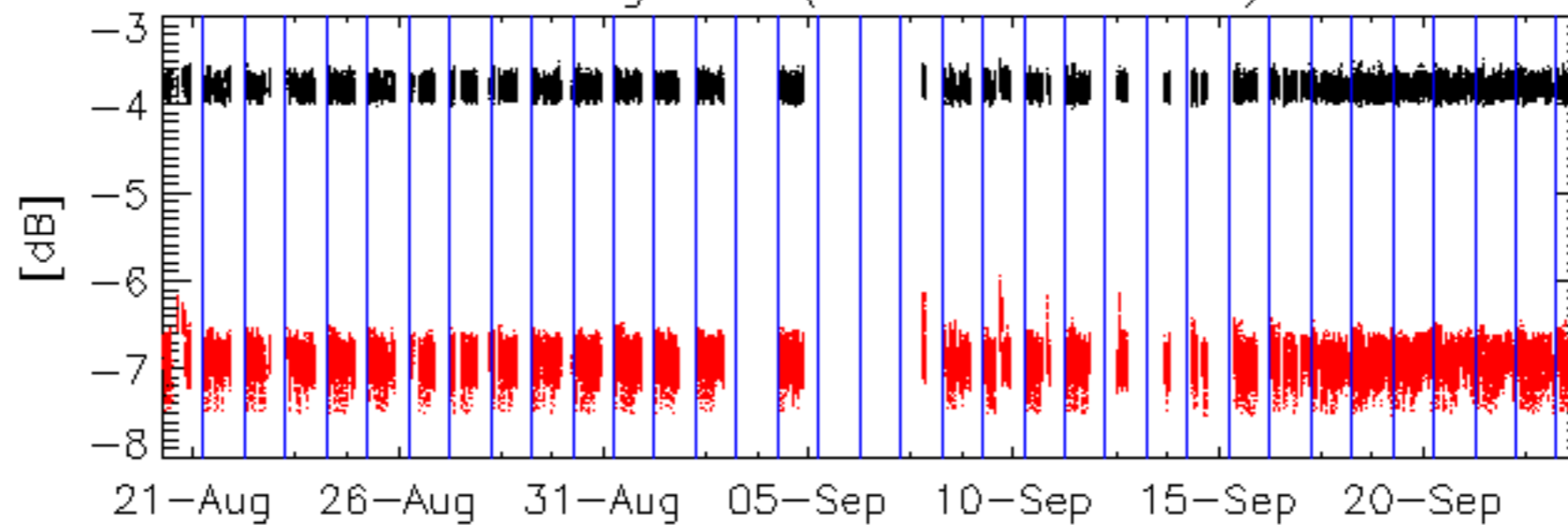
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

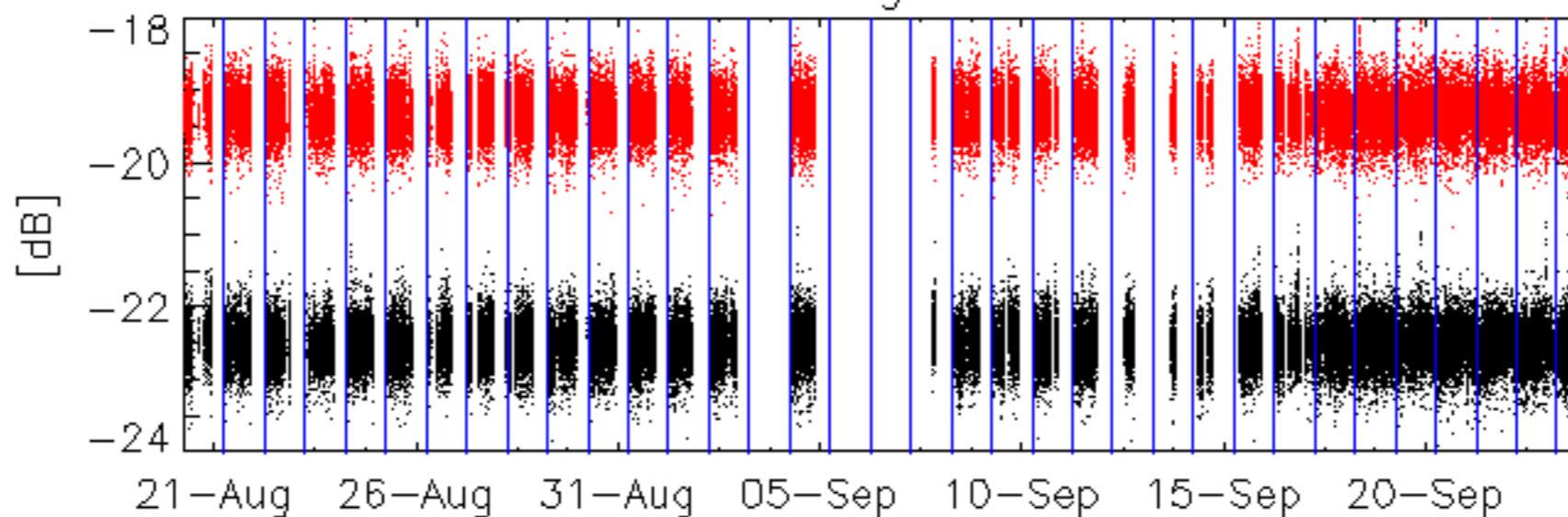
Evolution Doppler error versus ANX



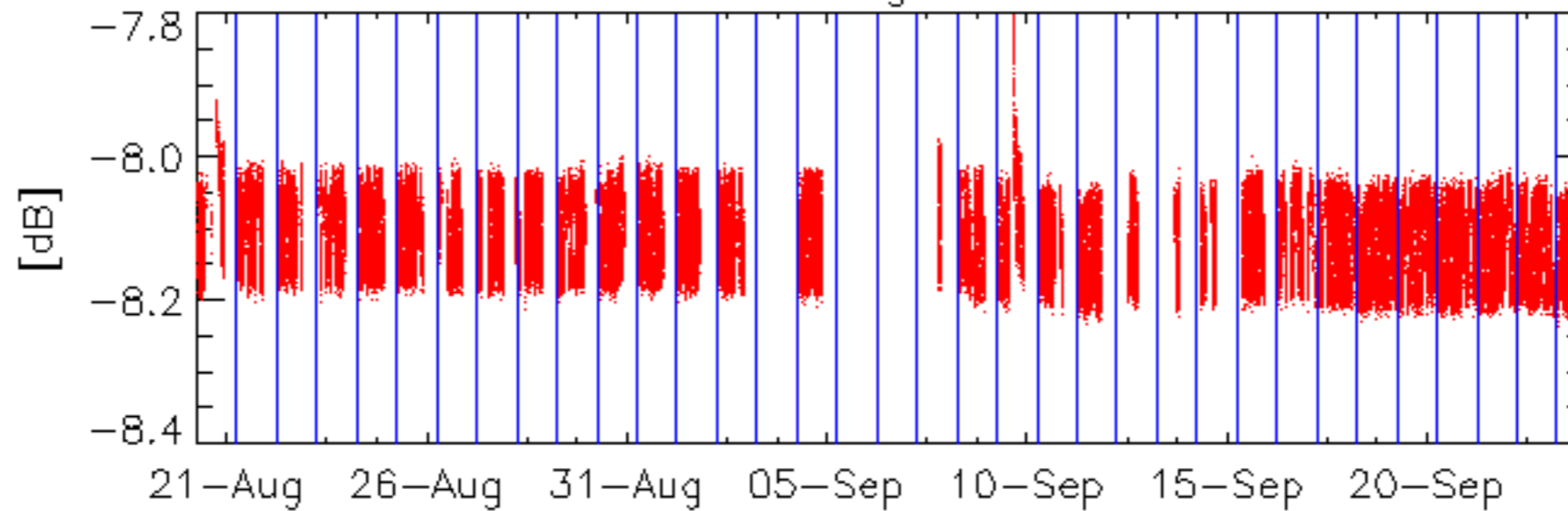
Average P1 (row 3 & row 10)



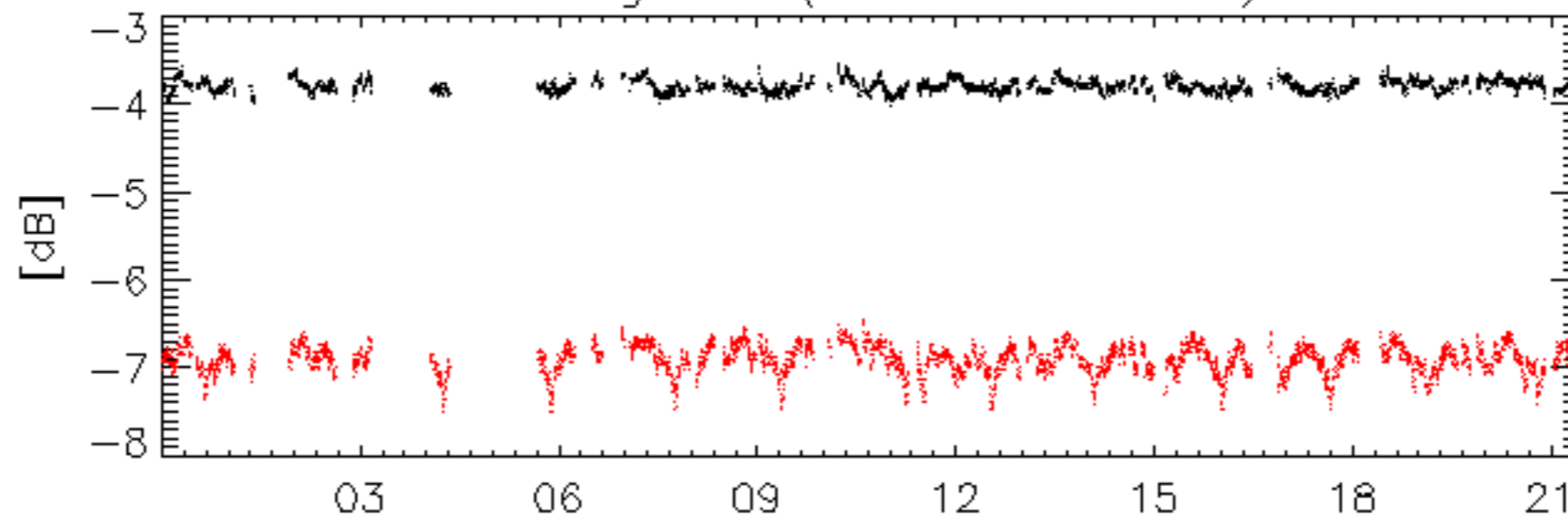
Average P2



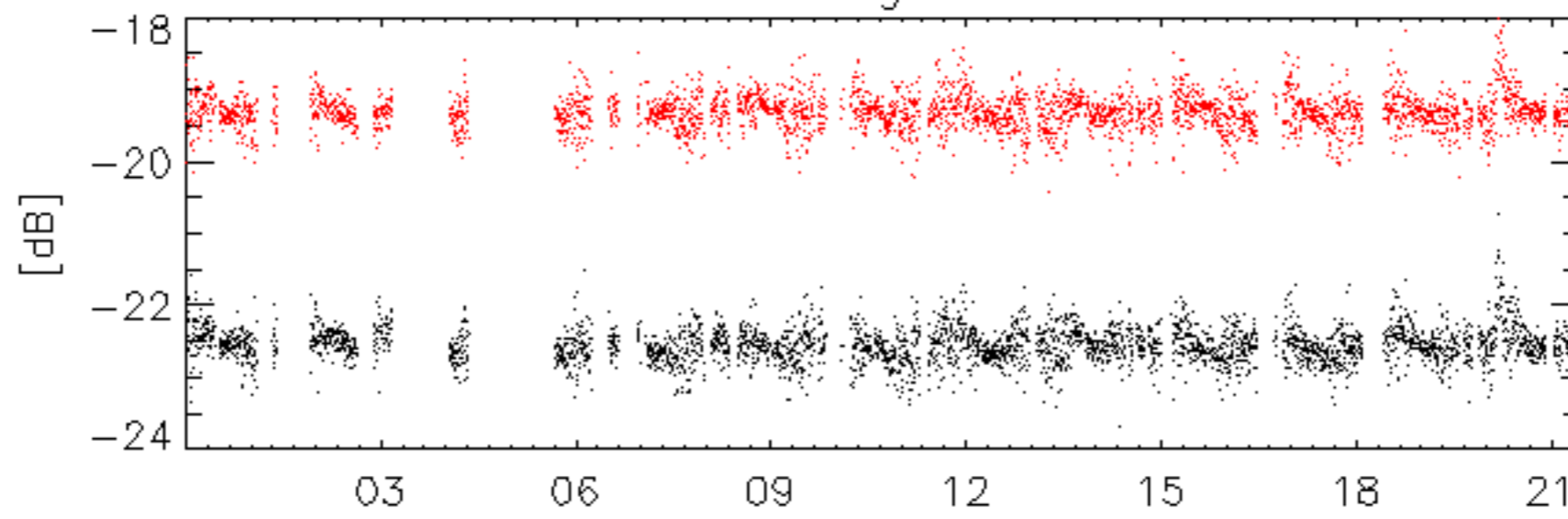
Average P3



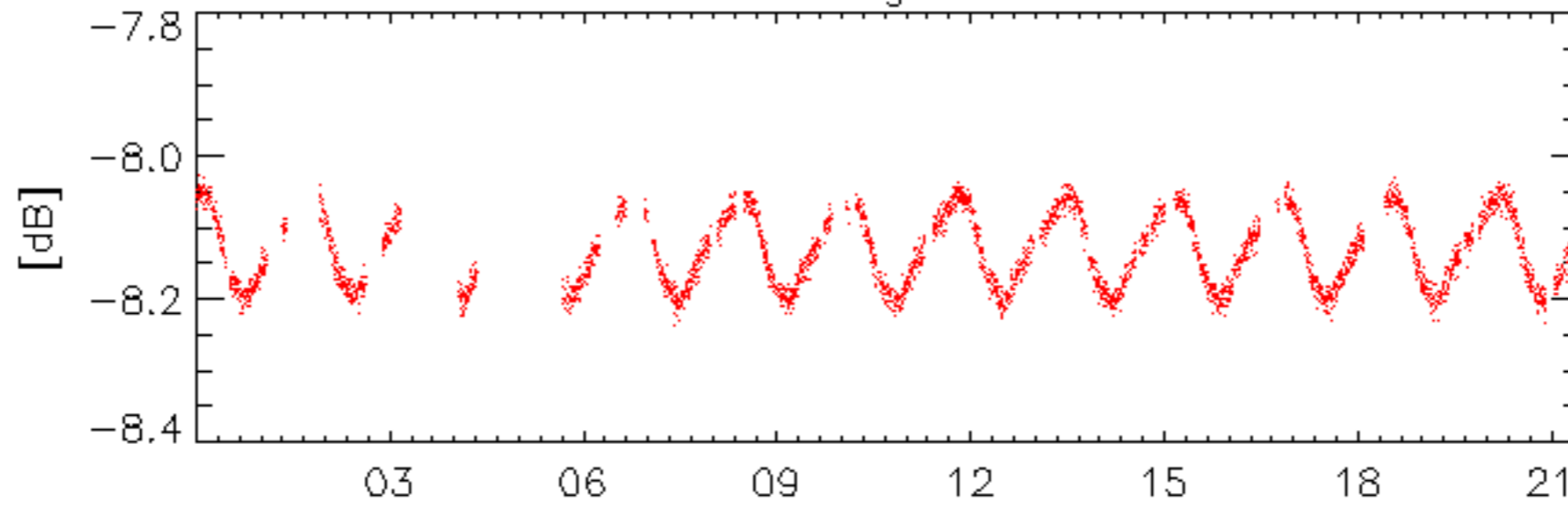
Average P1 (row 3 & row 10)



23-Sep
Average P2



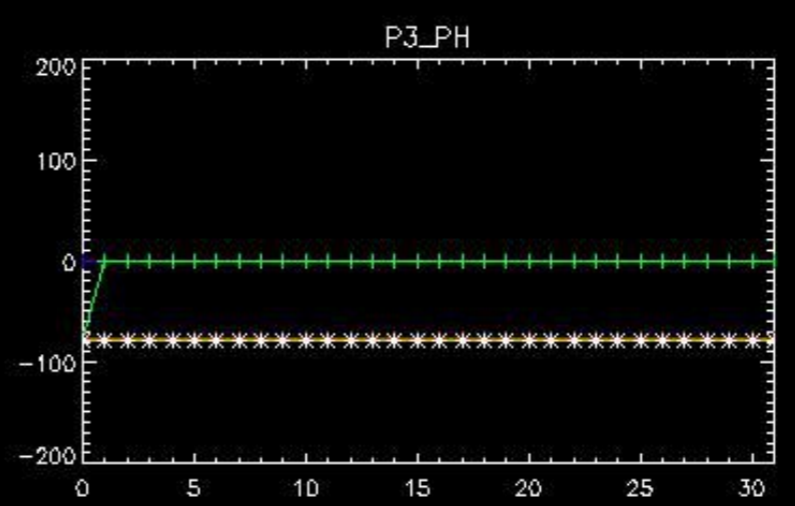
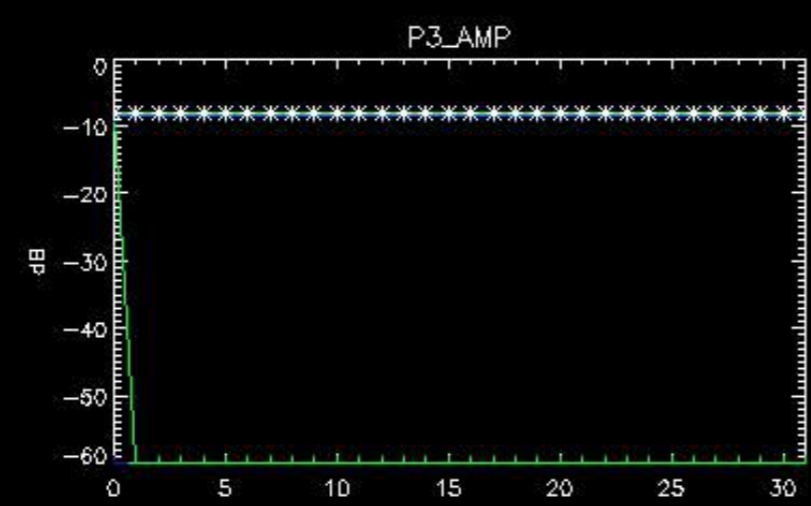
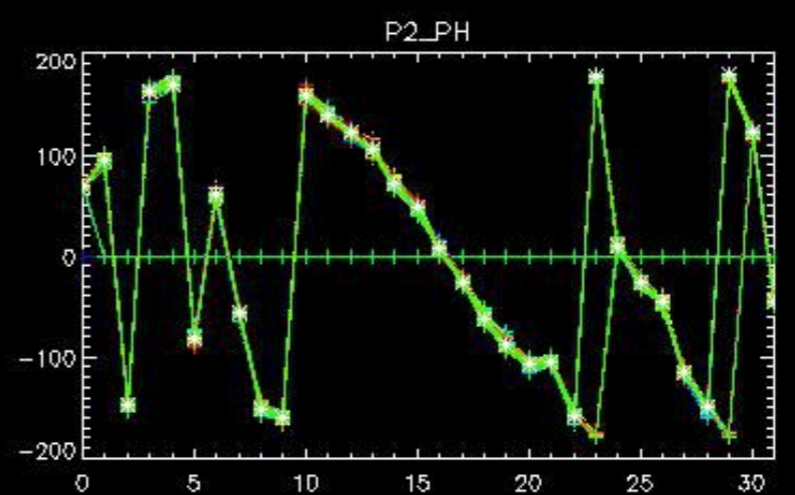
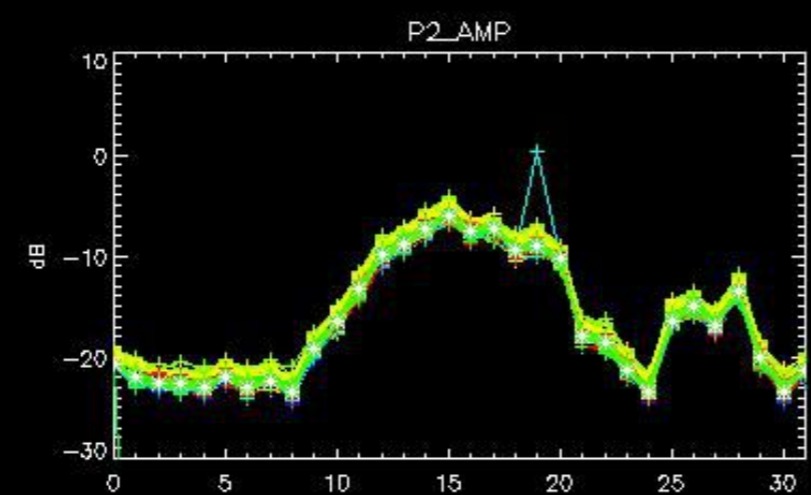
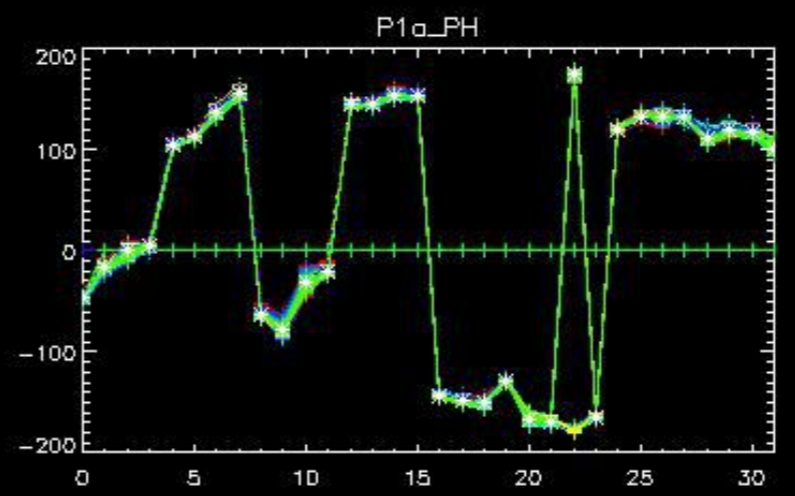
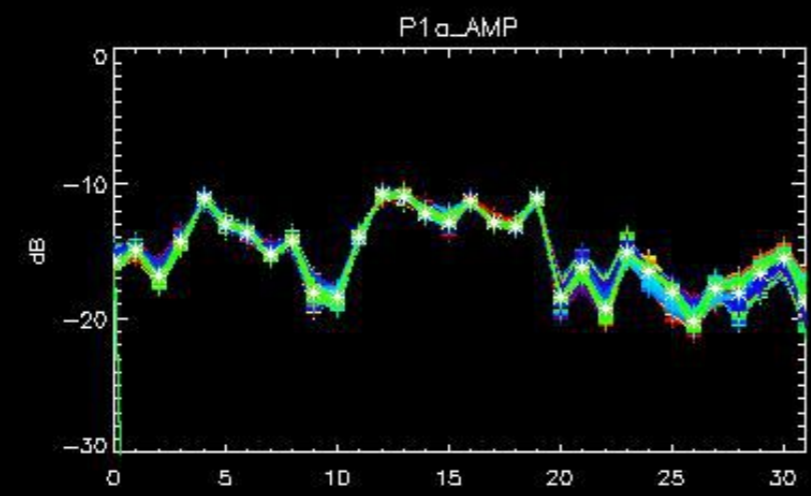
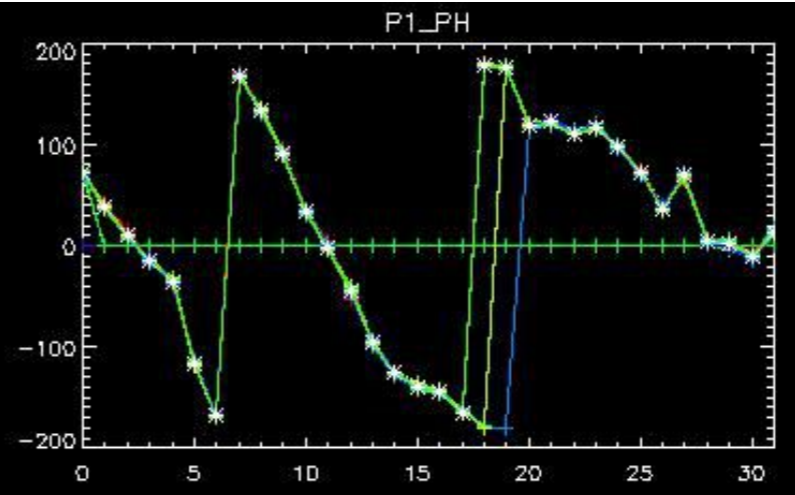
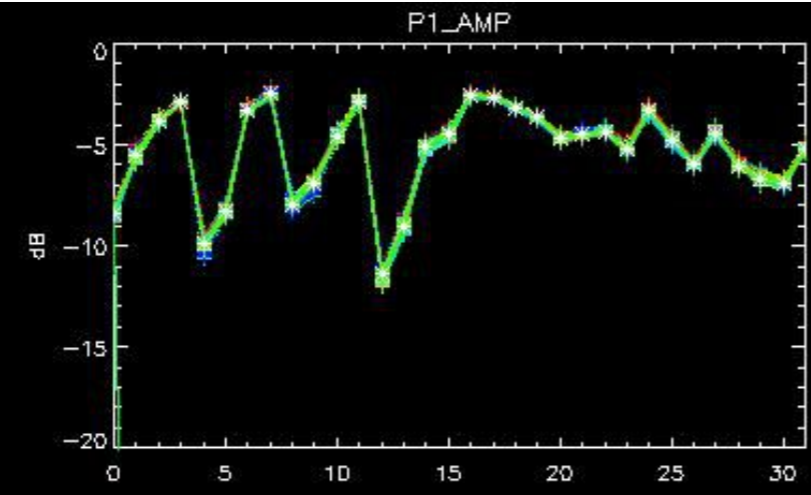
23-Sep
Average P3



23-Sep

No anomalies observed on available browse products

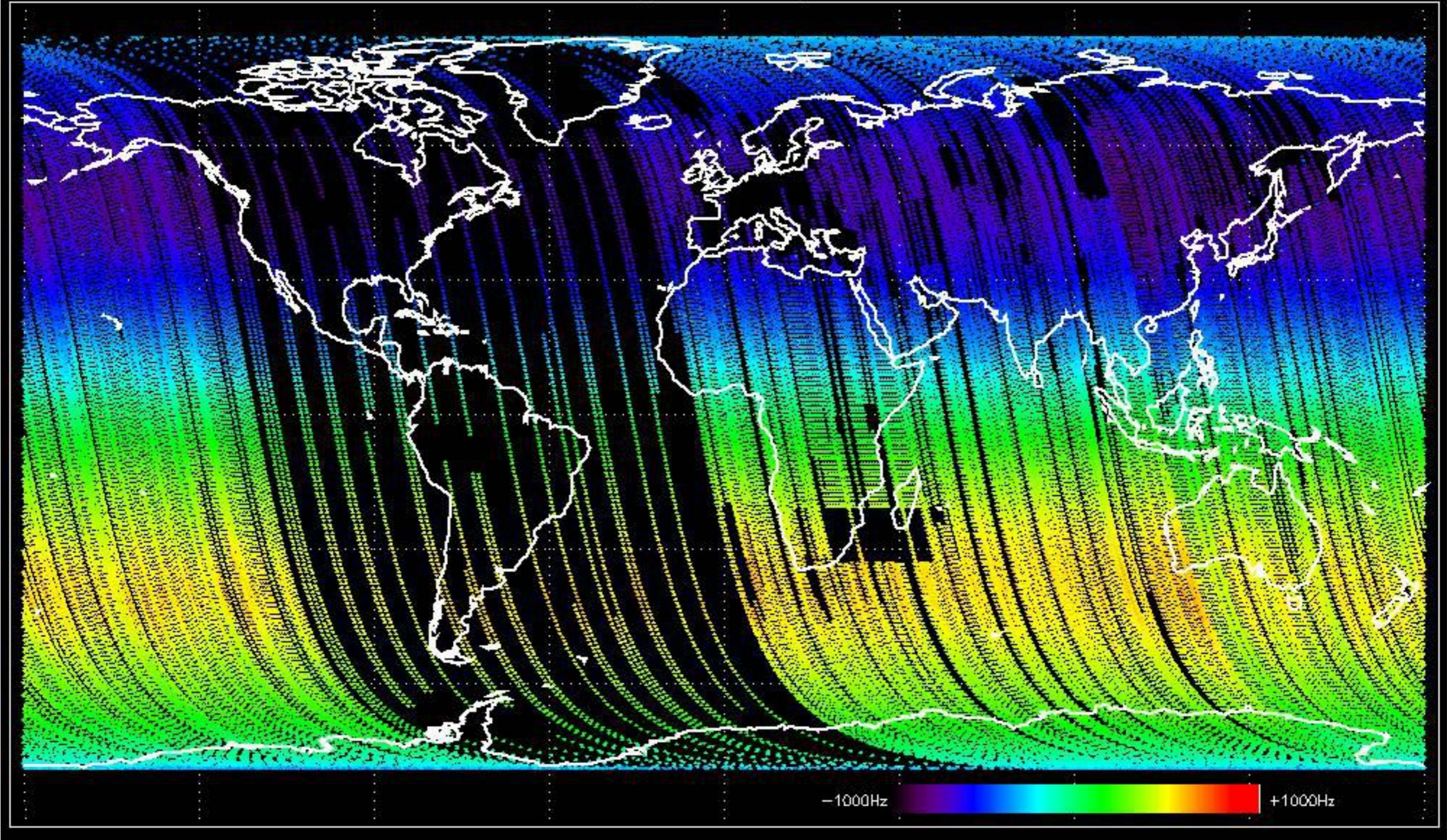
No anomalies observed.



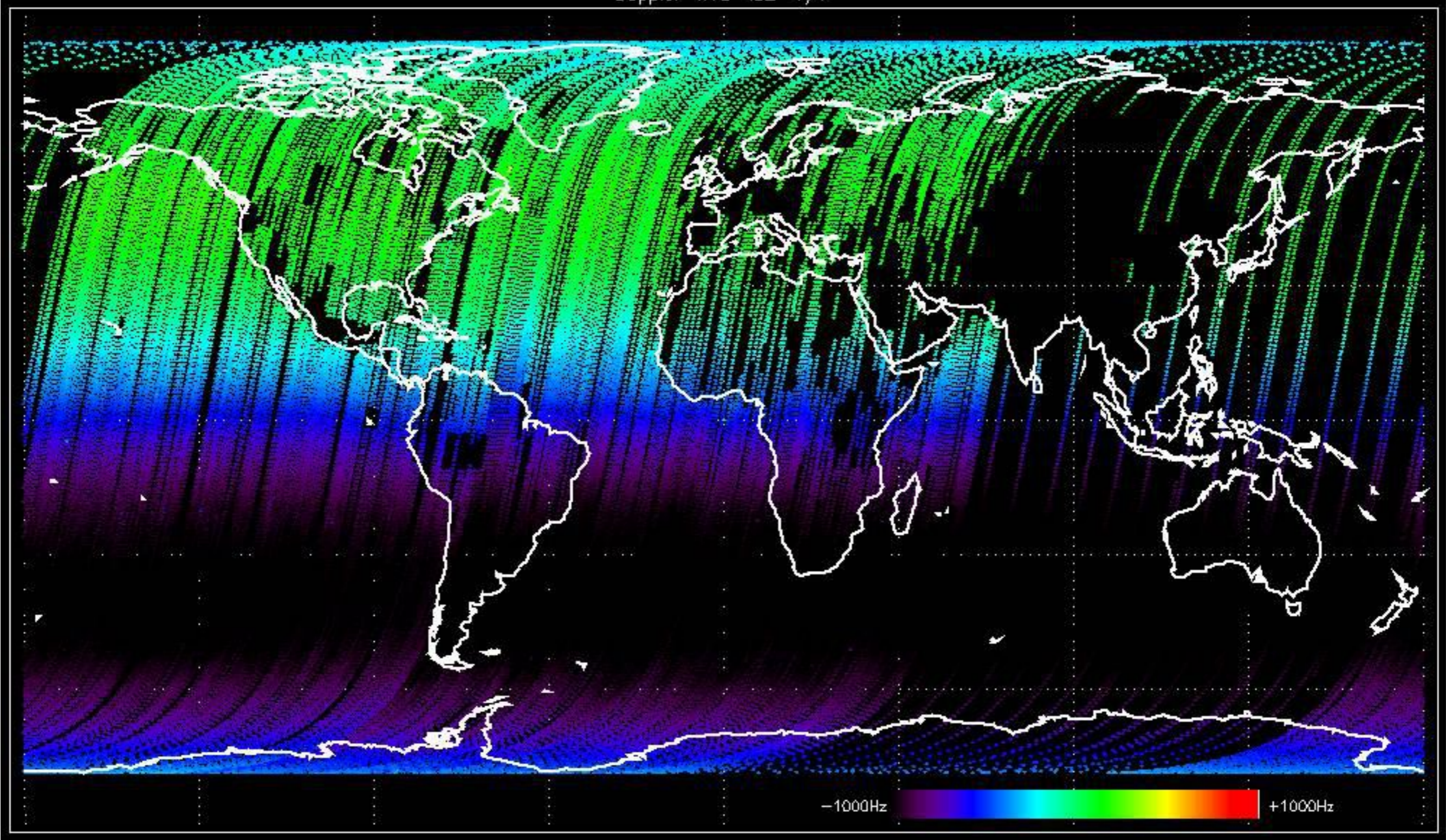
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- Stable raw data statistics.
- Nominal Doppler behavior.

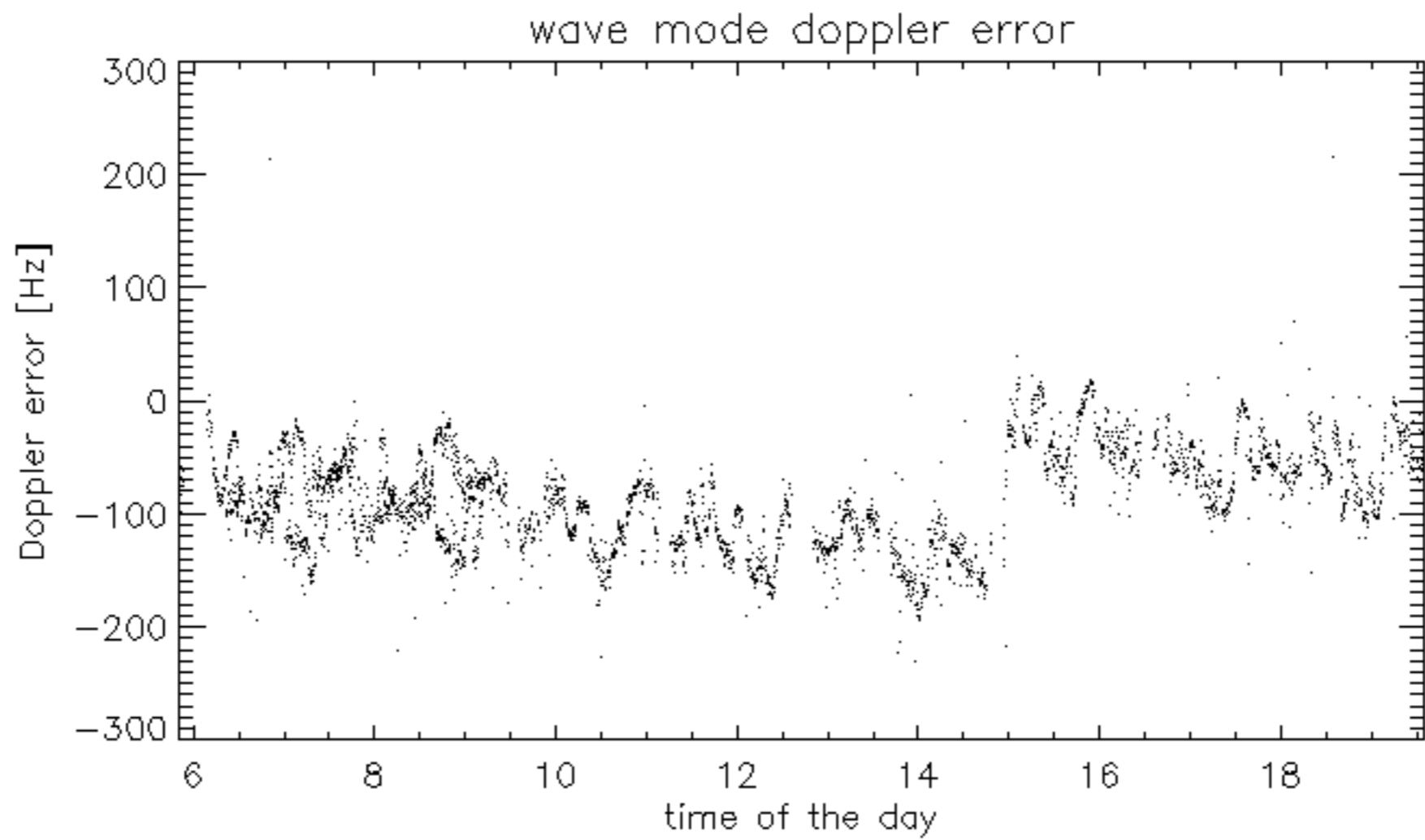
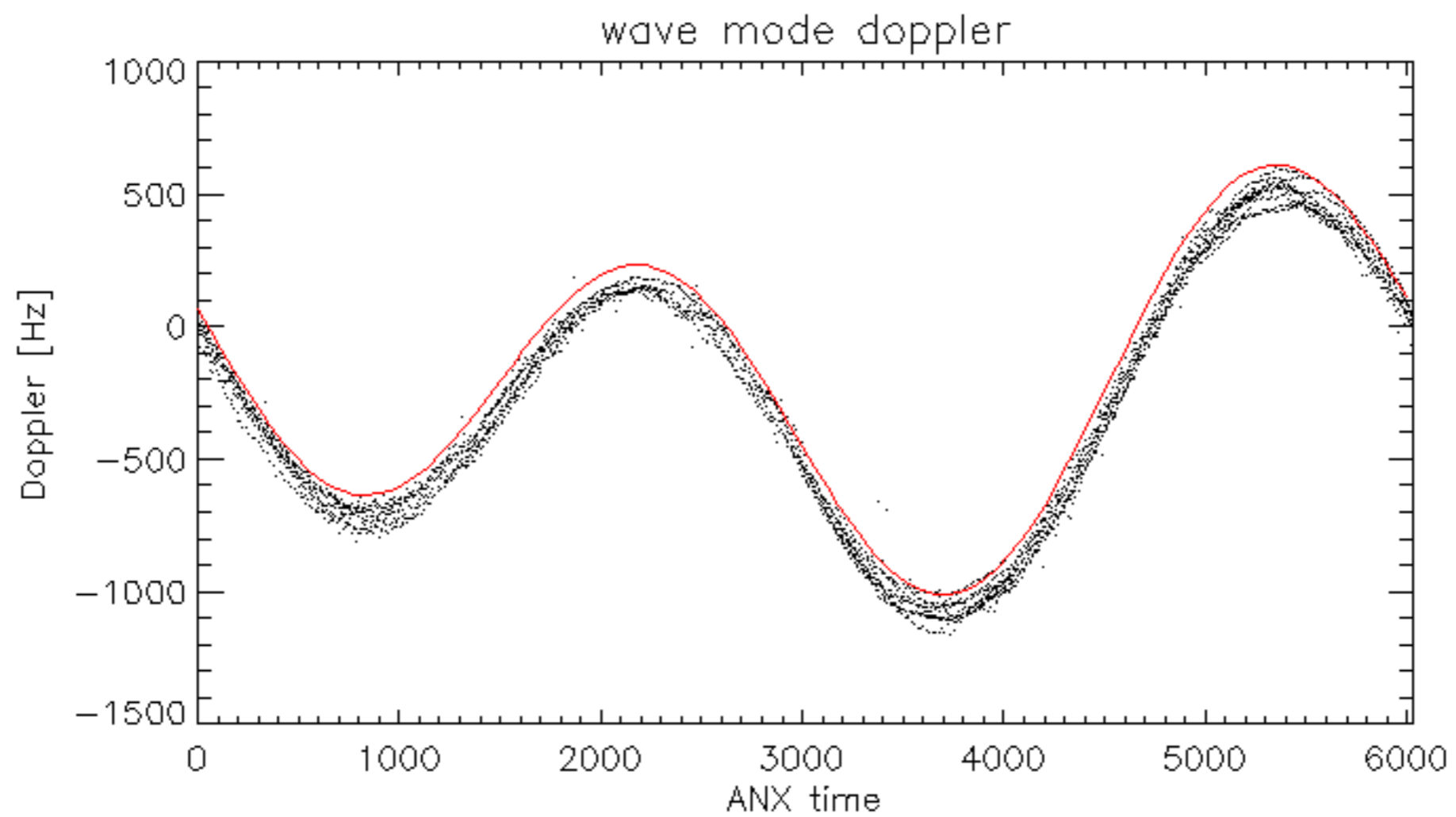
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

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

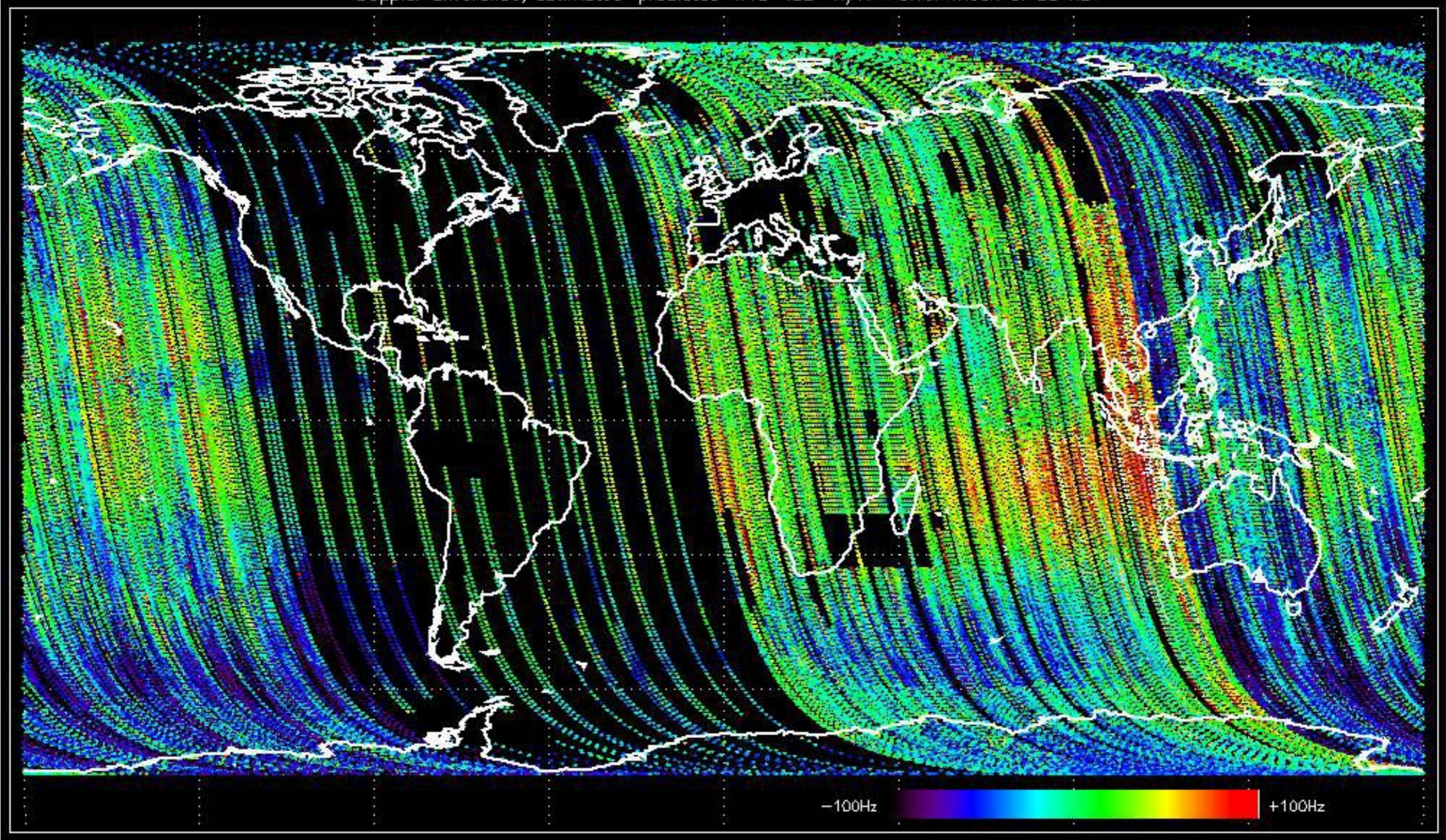


Doppler 'WVS' 'IS2' 'V/V'

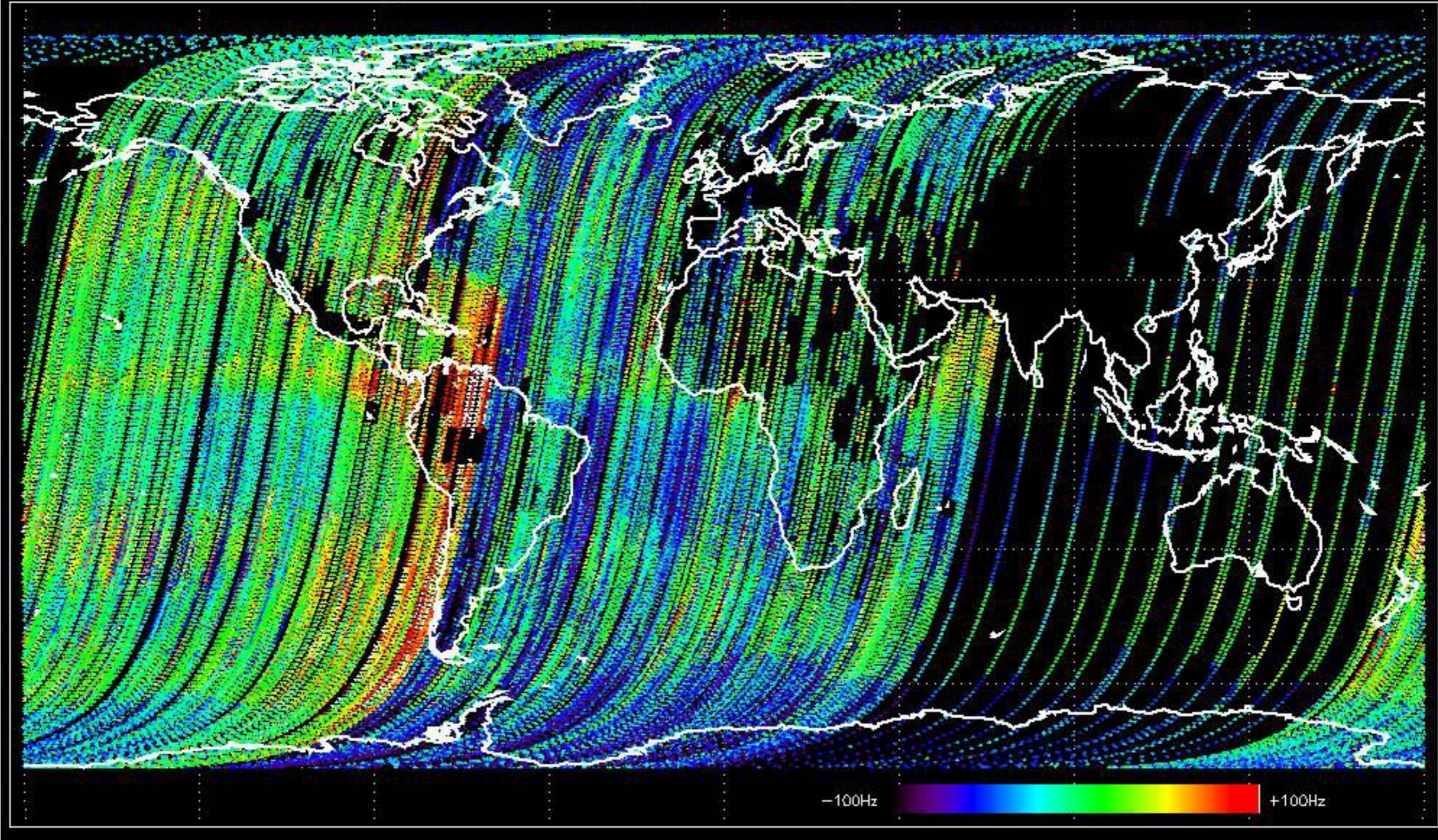




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz

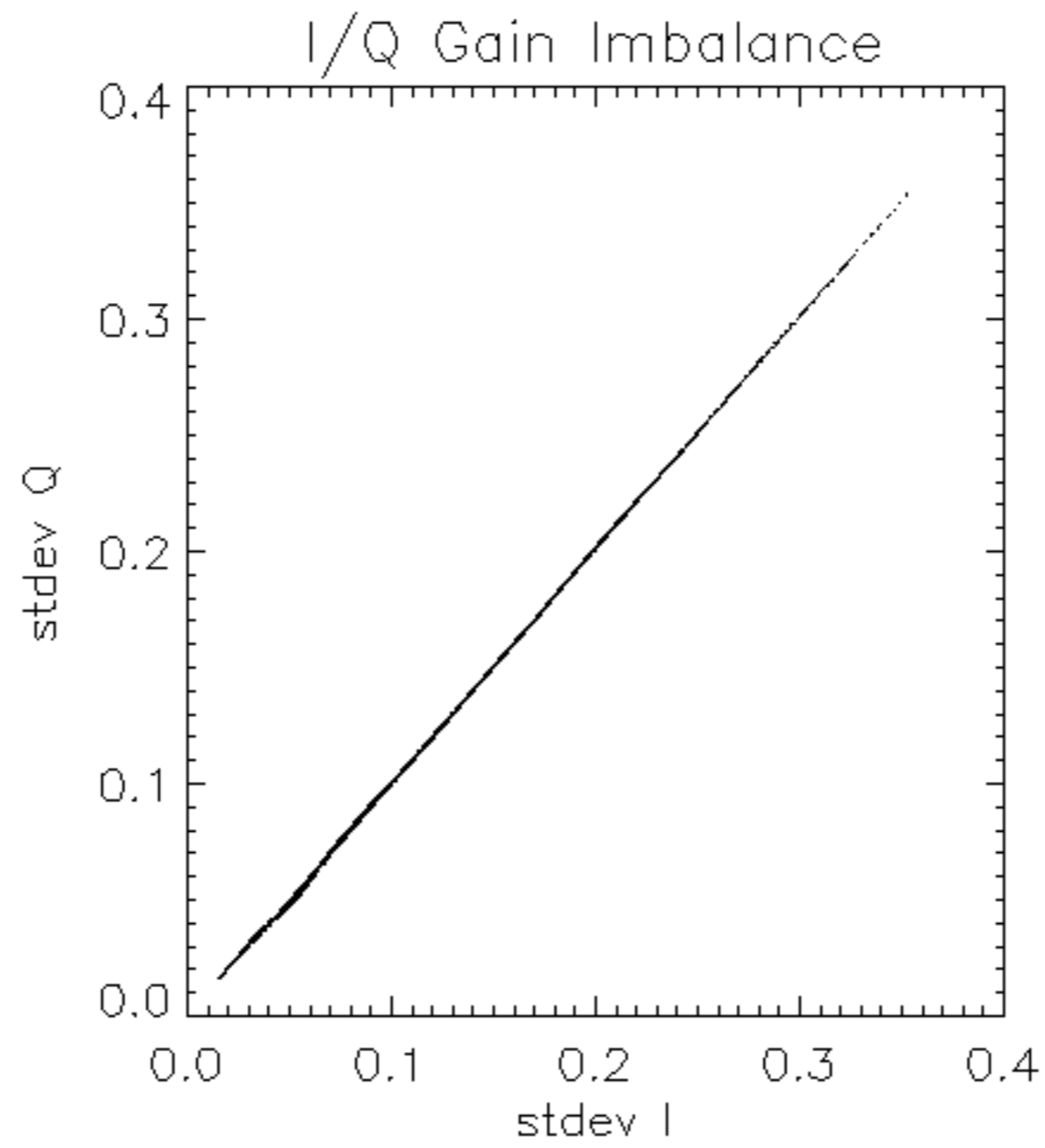


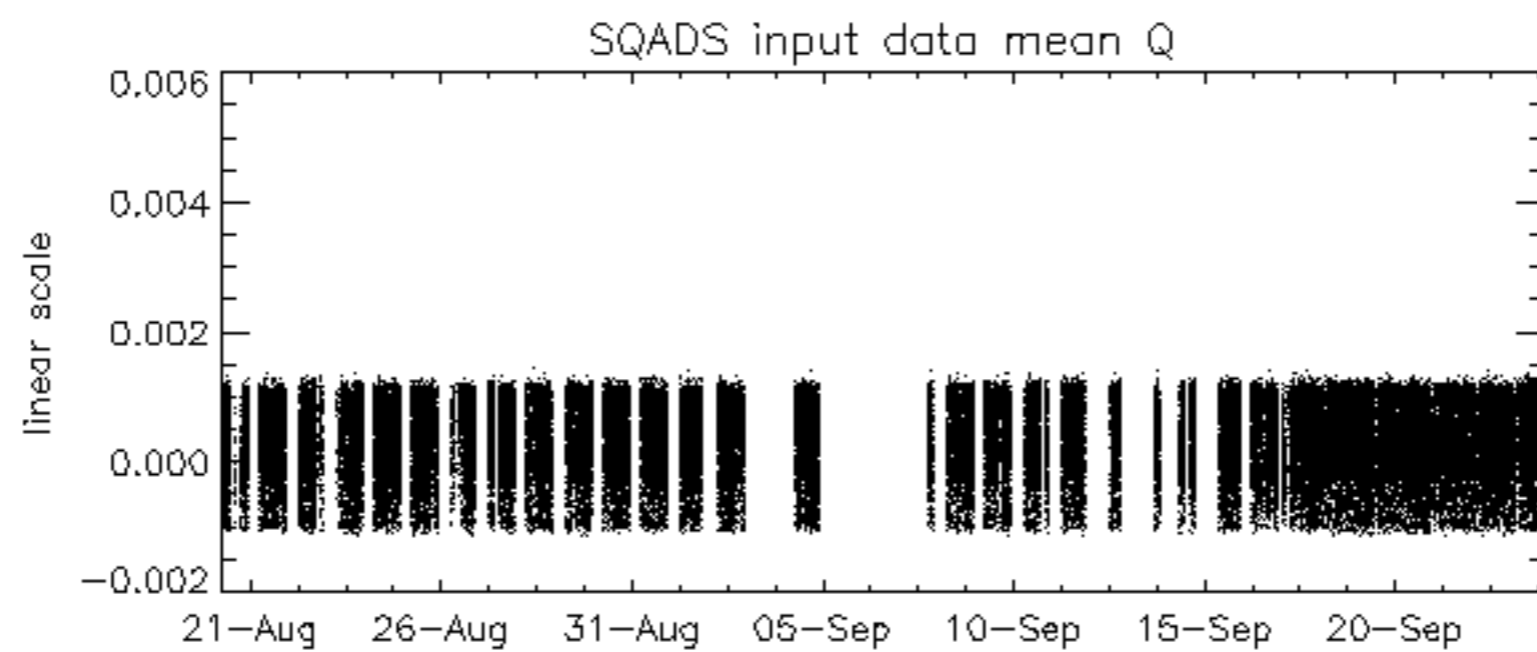
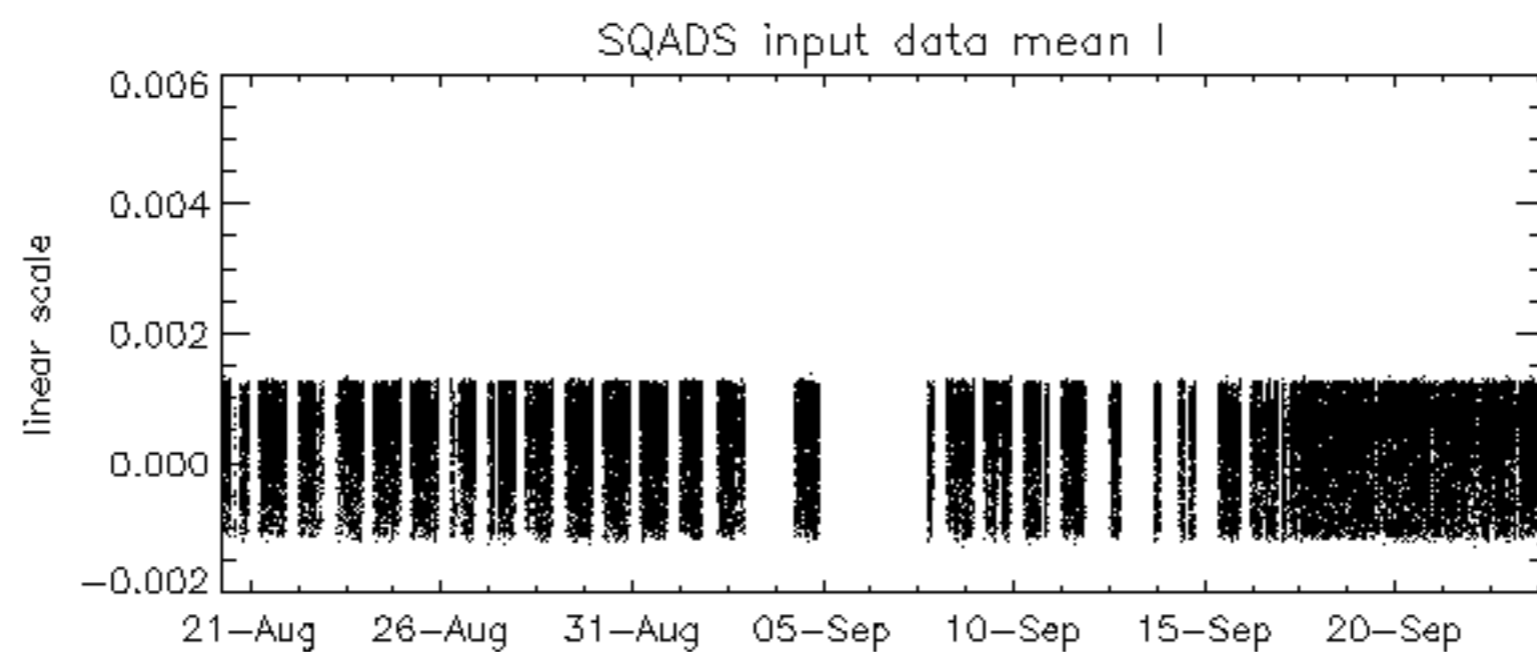
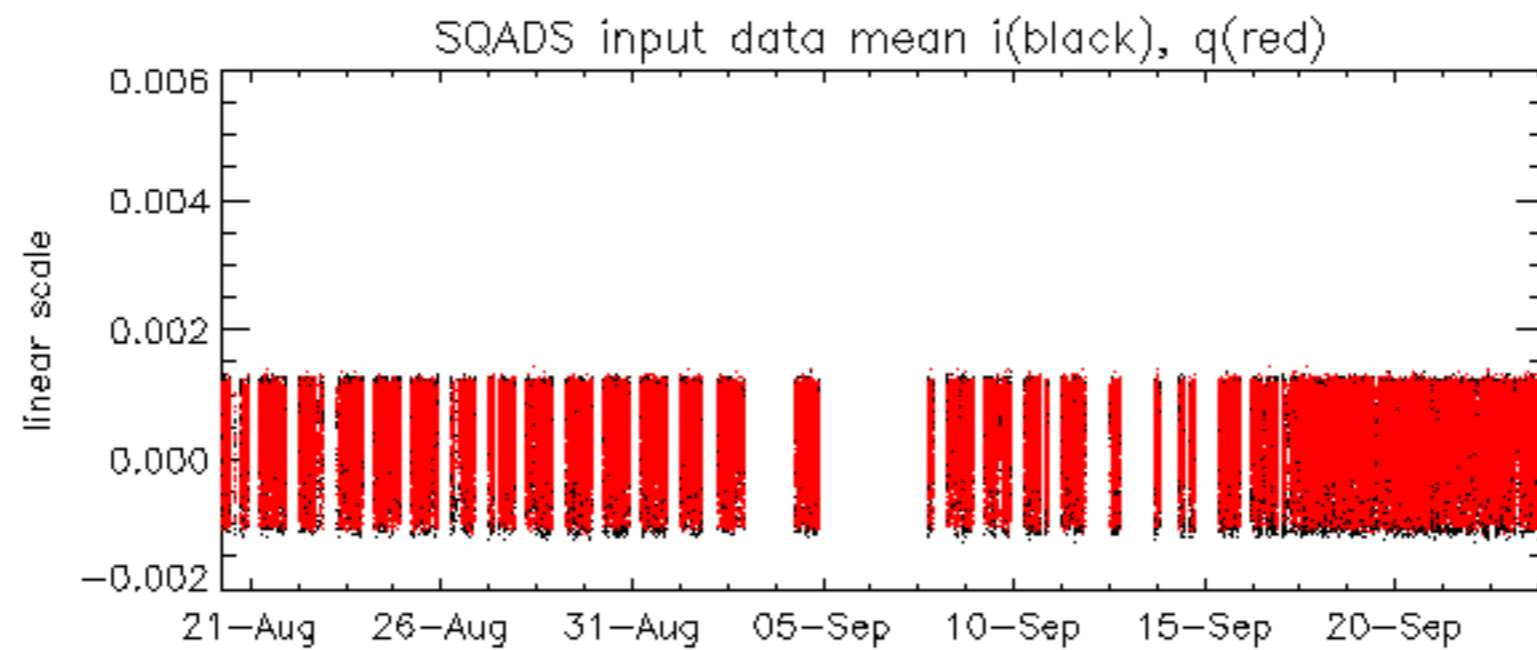
Doppler difference, estimated-predicted 'WS' 'IS2' 'V/V' -error mean of 53 Hz

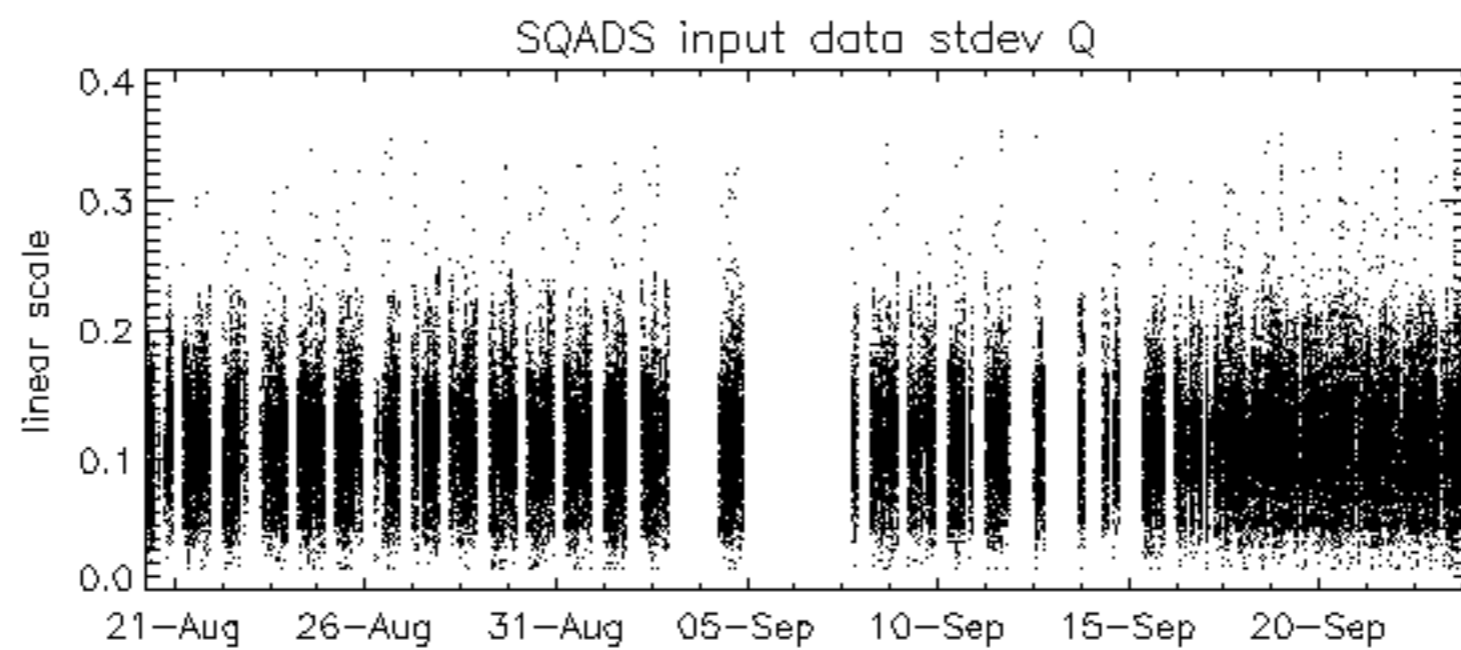
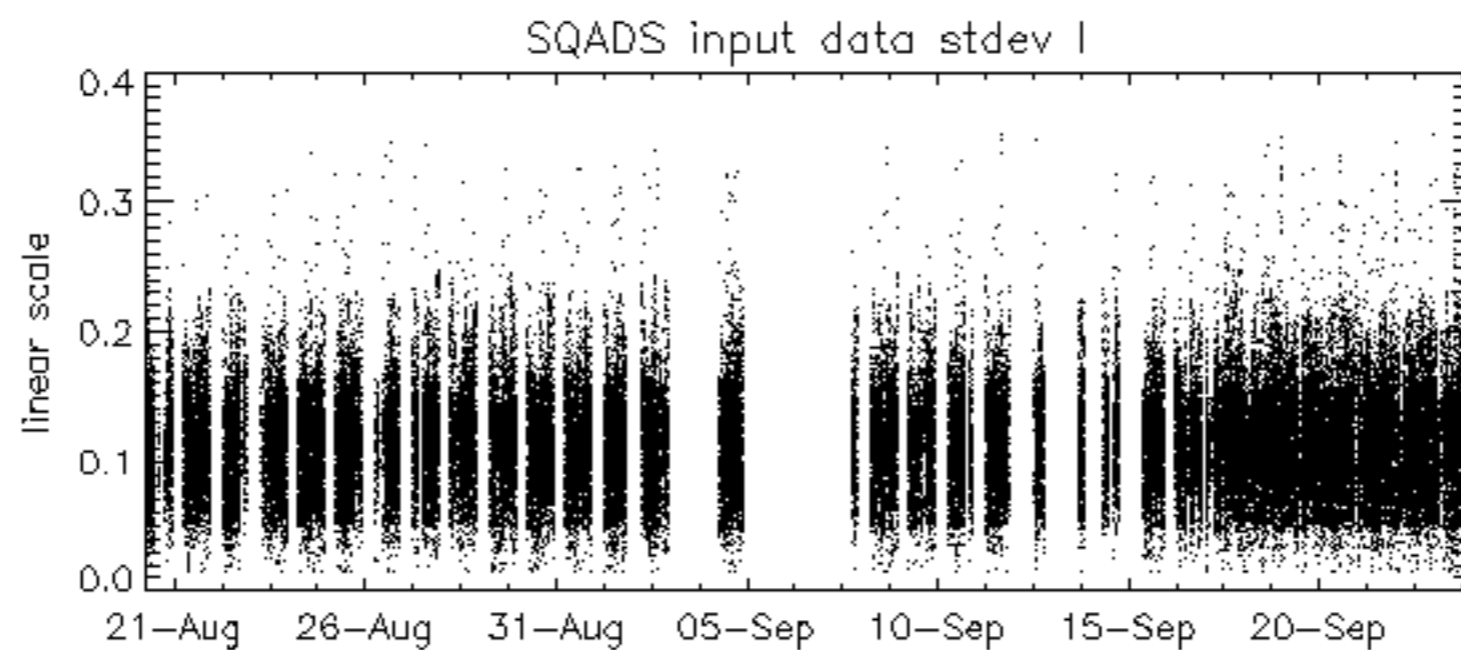
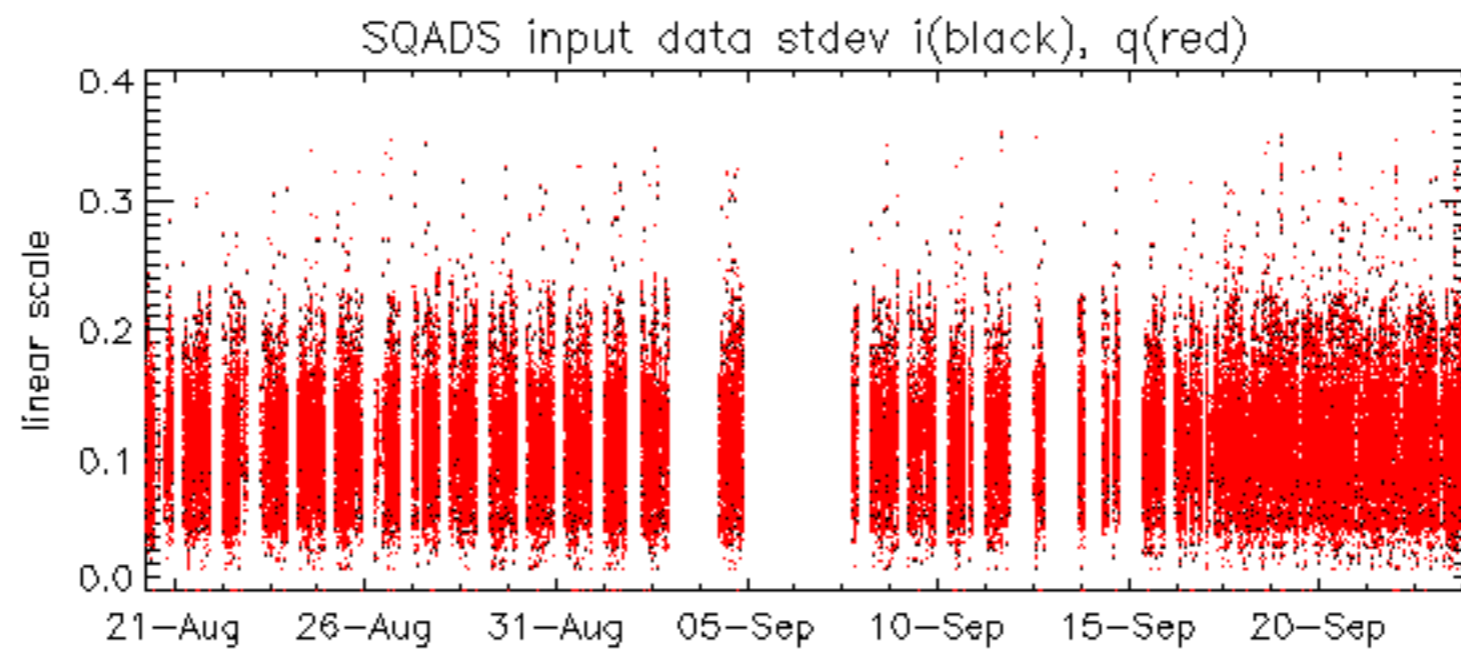


No anomalies observed on available MS products:

No anomalies observed.







No unavailabilities during the reported period.