

# REPORT OF 031003

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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

Unavailability reported during this period:  
ASAR was unavailable (Preop-Refuse) due to a TR Parity error on tile B2.

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	20031002 193719
H	20031002 193539

### 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	-3.80533	-22.5368	-8.13843
	stdev	0.00515033	0.0603822	0.00240727
10	mean	-6.87944	-19.3161	-8.13843
	stdev	0.0329288	0.0587699	0.00240727



### 4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79928	-22.5268	-8.12354
	stdev	0.00564033	0.0627881	0.00257538
10	mean	-6.89534	-19.3153	-8.12354
	stdev	0.0274409	0.0612718	0.00257538



### 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	0.000360614
	stdev	3.59008e-07
MEAN Q	mean	0.000302377
	stdev	3.17989e-07



## 5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115475
	stdev	0.00142895
STDEV Q	mean	0.115711
	stdev	0.00144717



## 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

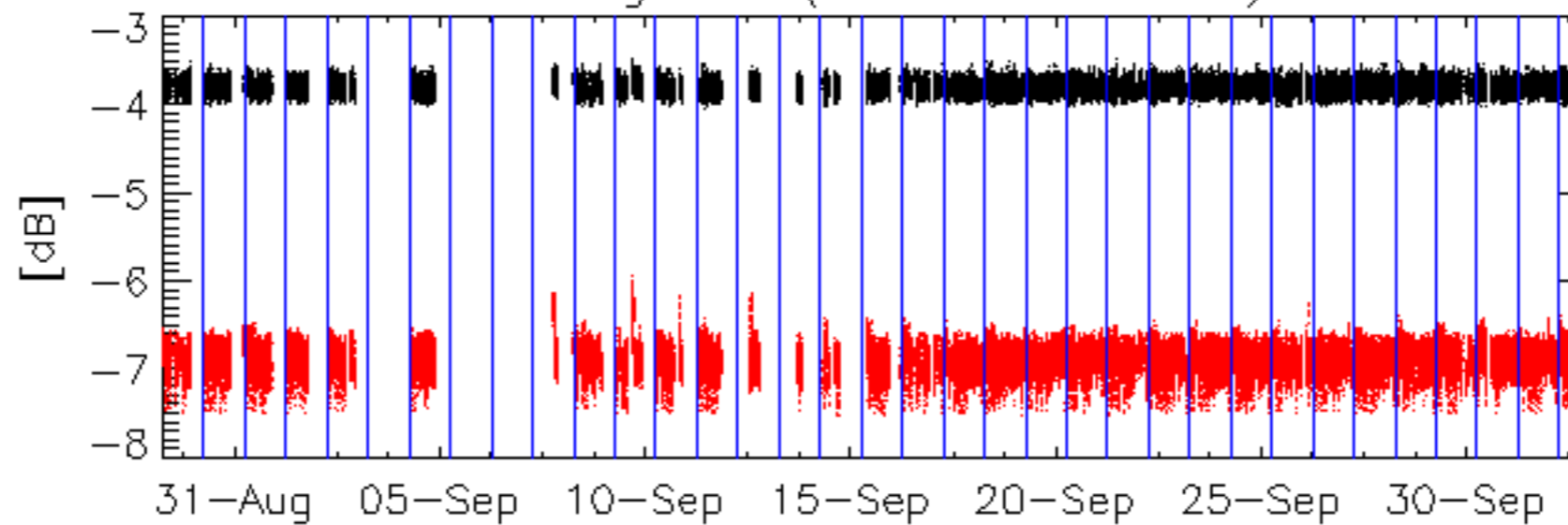
Evolution of Absolute Doppler
Ascending
Descending

### 6.3 - Doppler evolution versus ANX

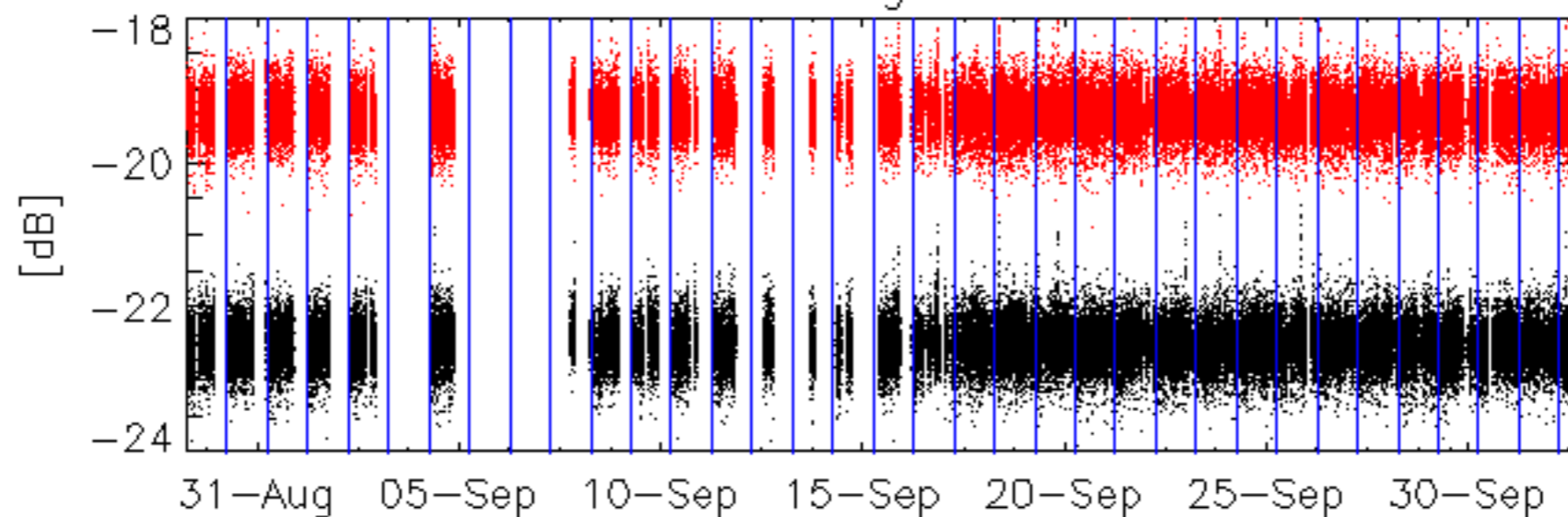
Evolution Doppler error versus ANX



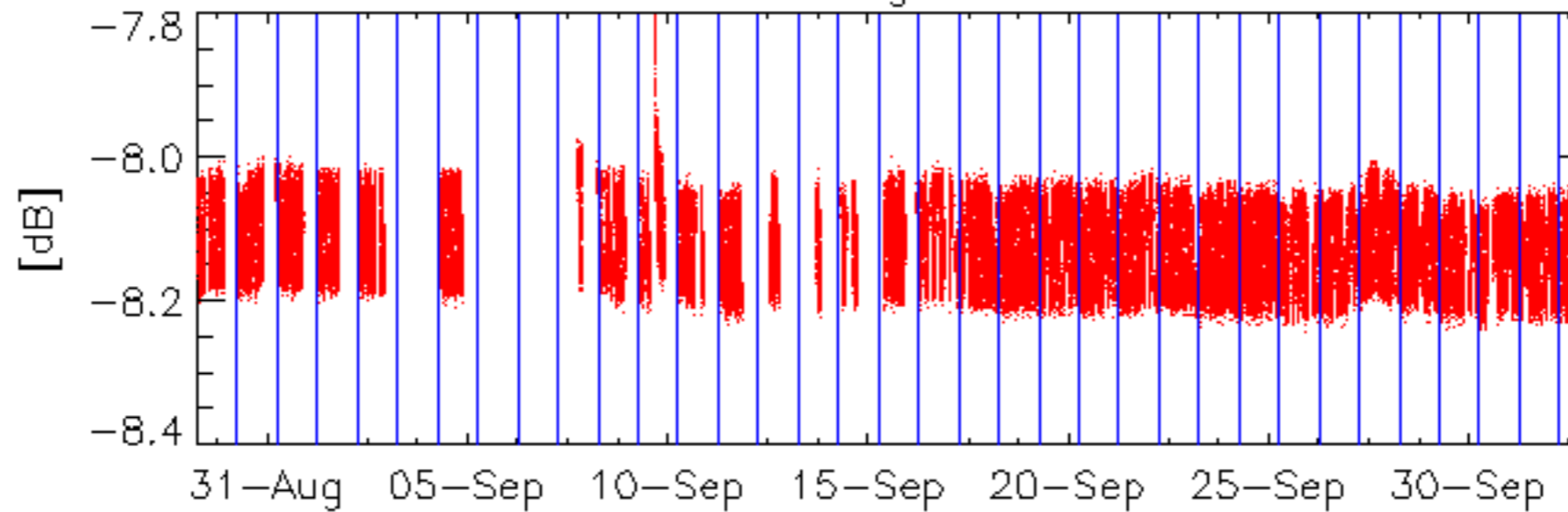
Average P1 (row 3 & row 10)



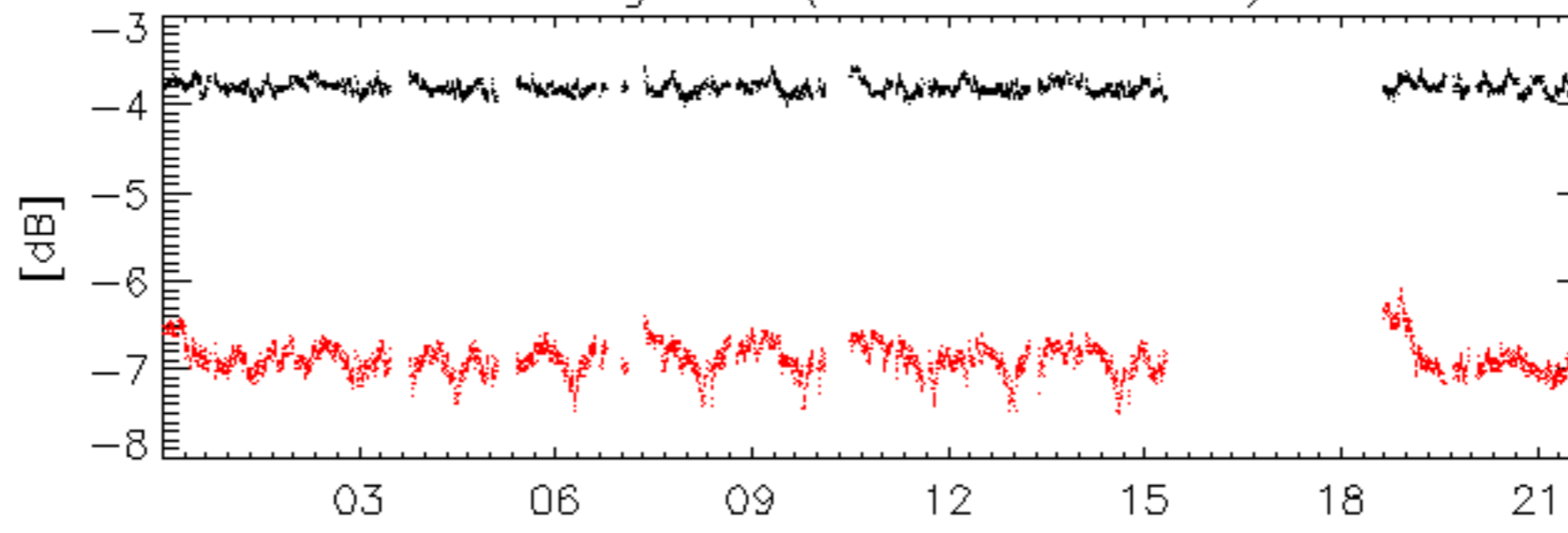
Average P2



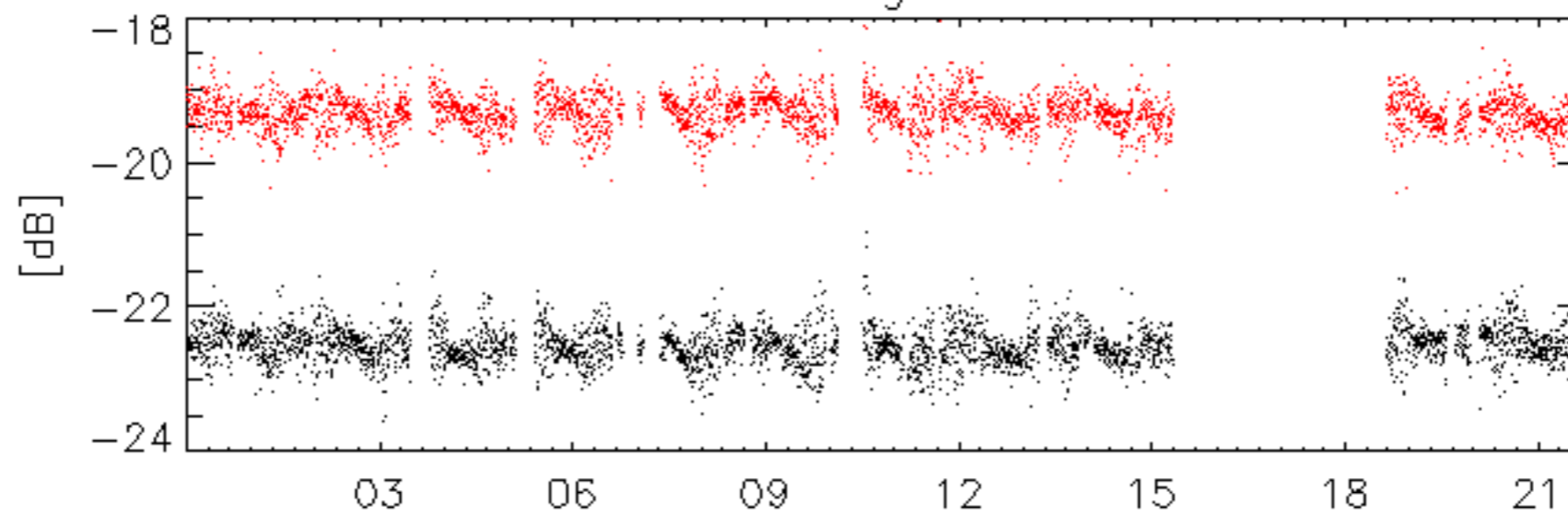
Average P3



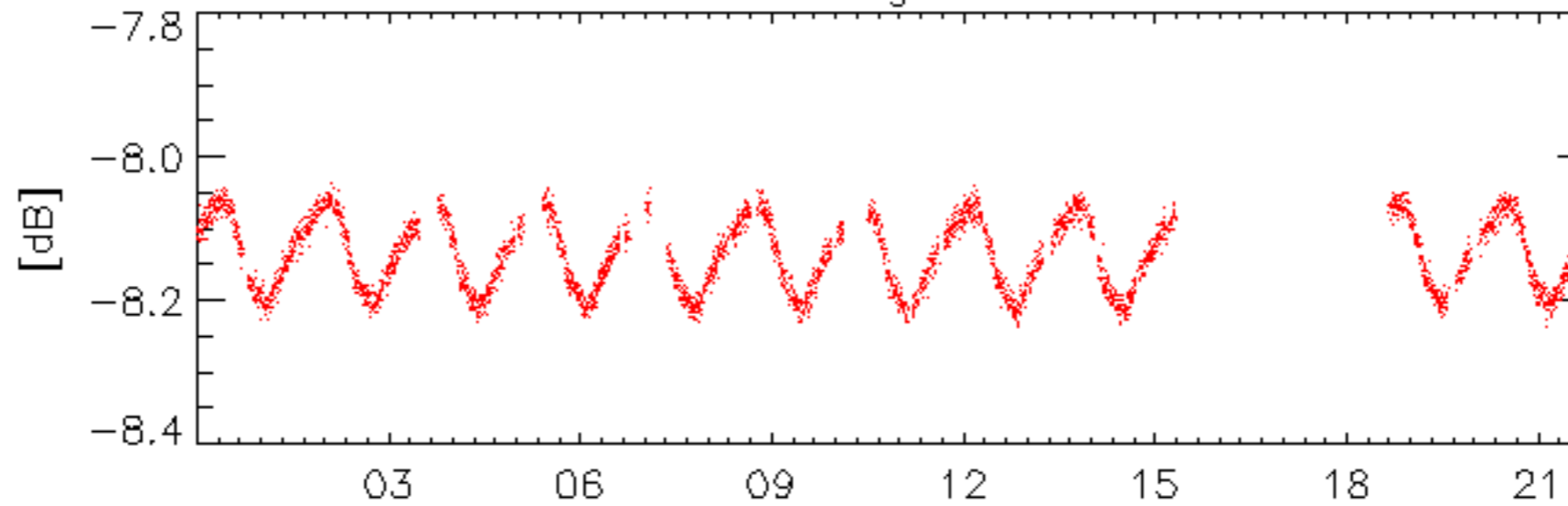
Average P1 (row 3 & row 10)



02-Oct  
Average P2



02-Oct  
Average P3



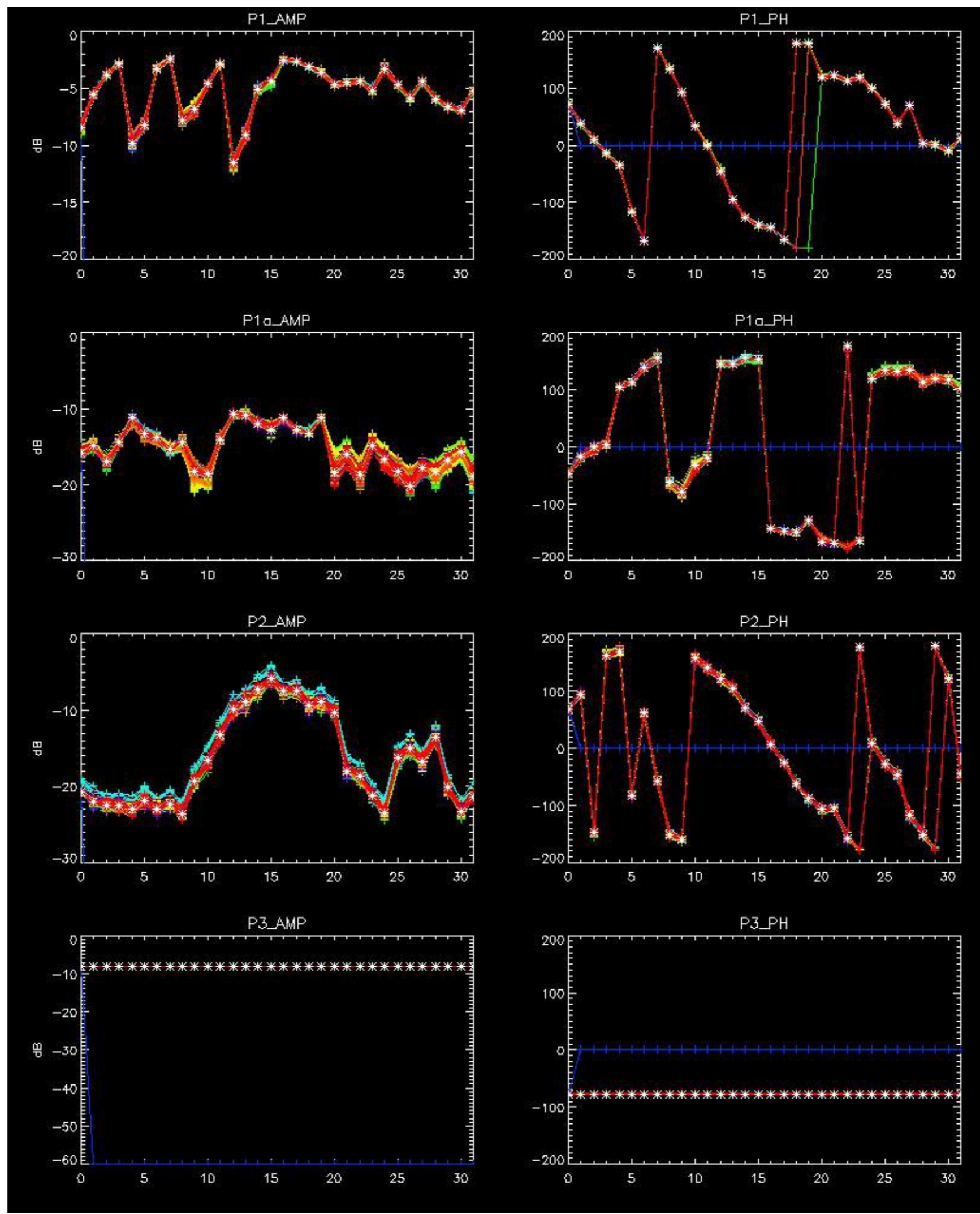
02-Oct





No anomalies observed on available browse products

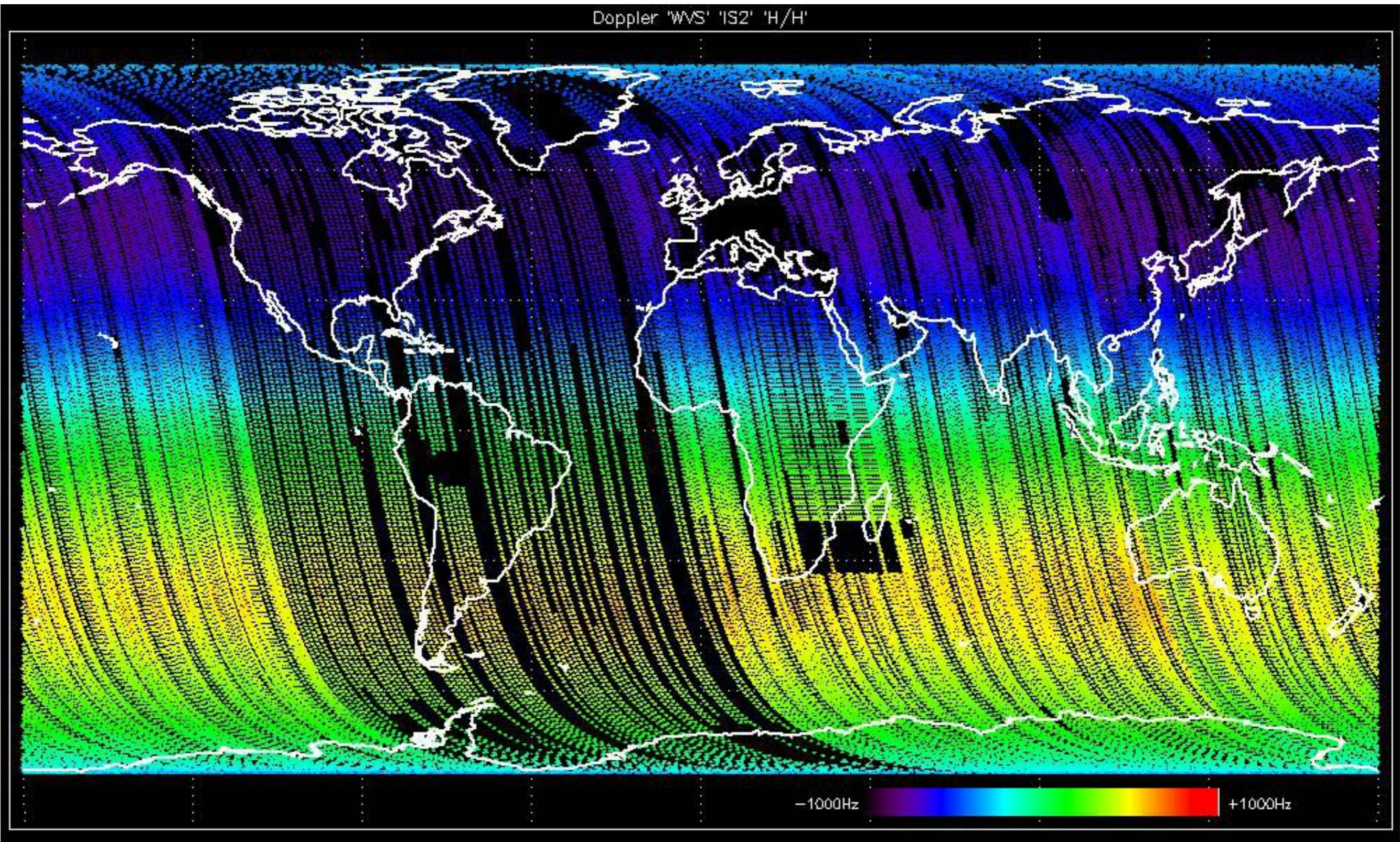
No anomalies observed.



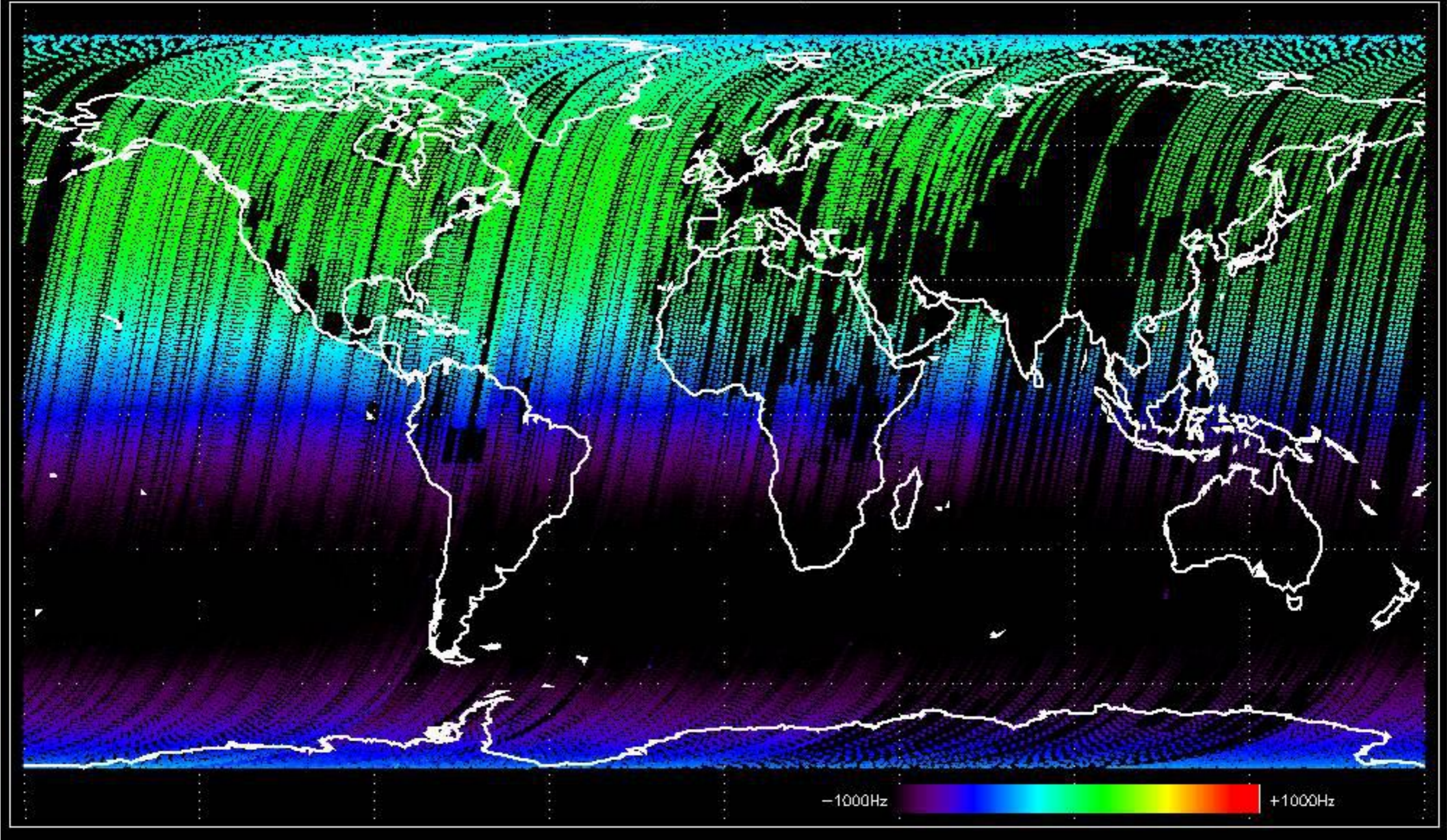
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

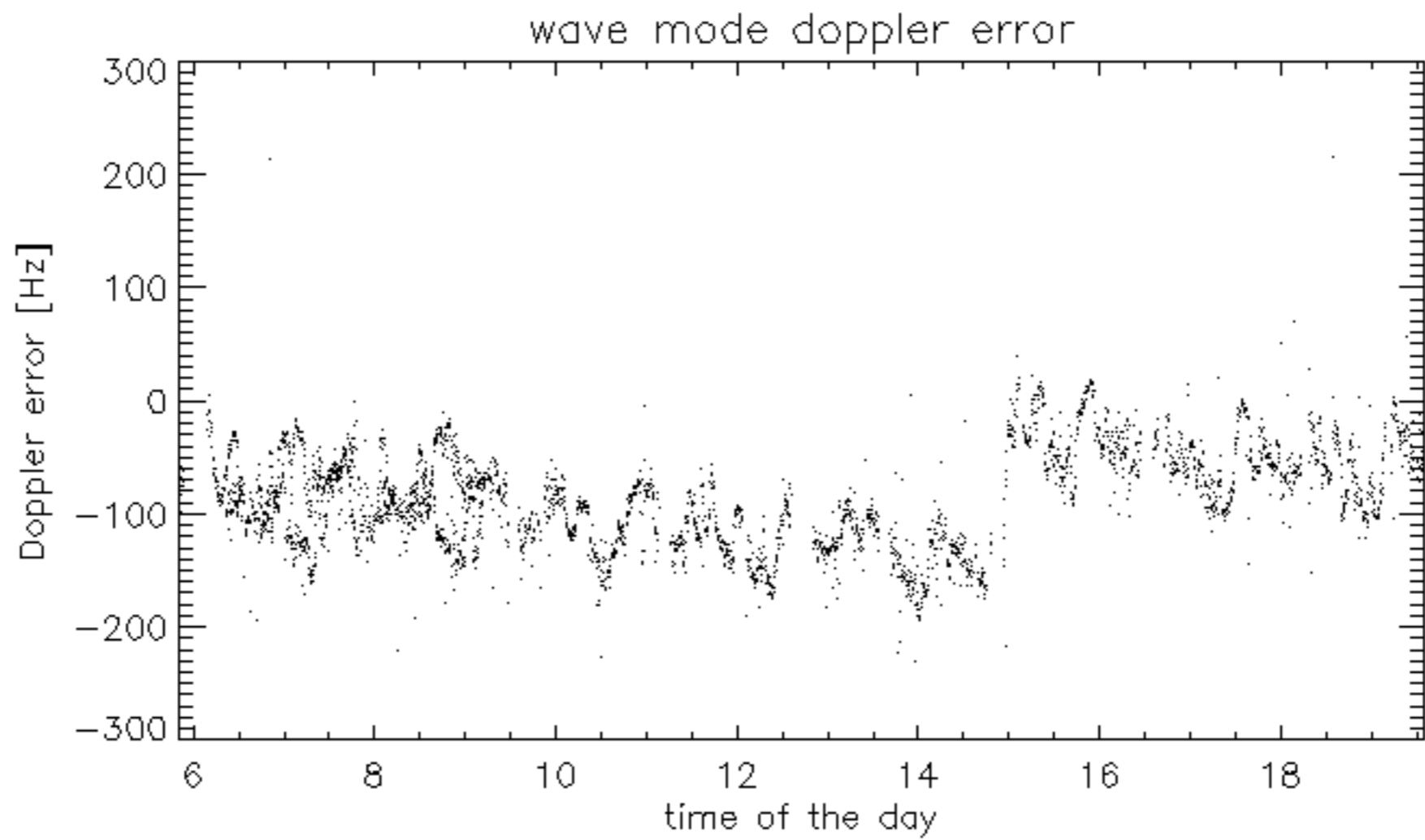
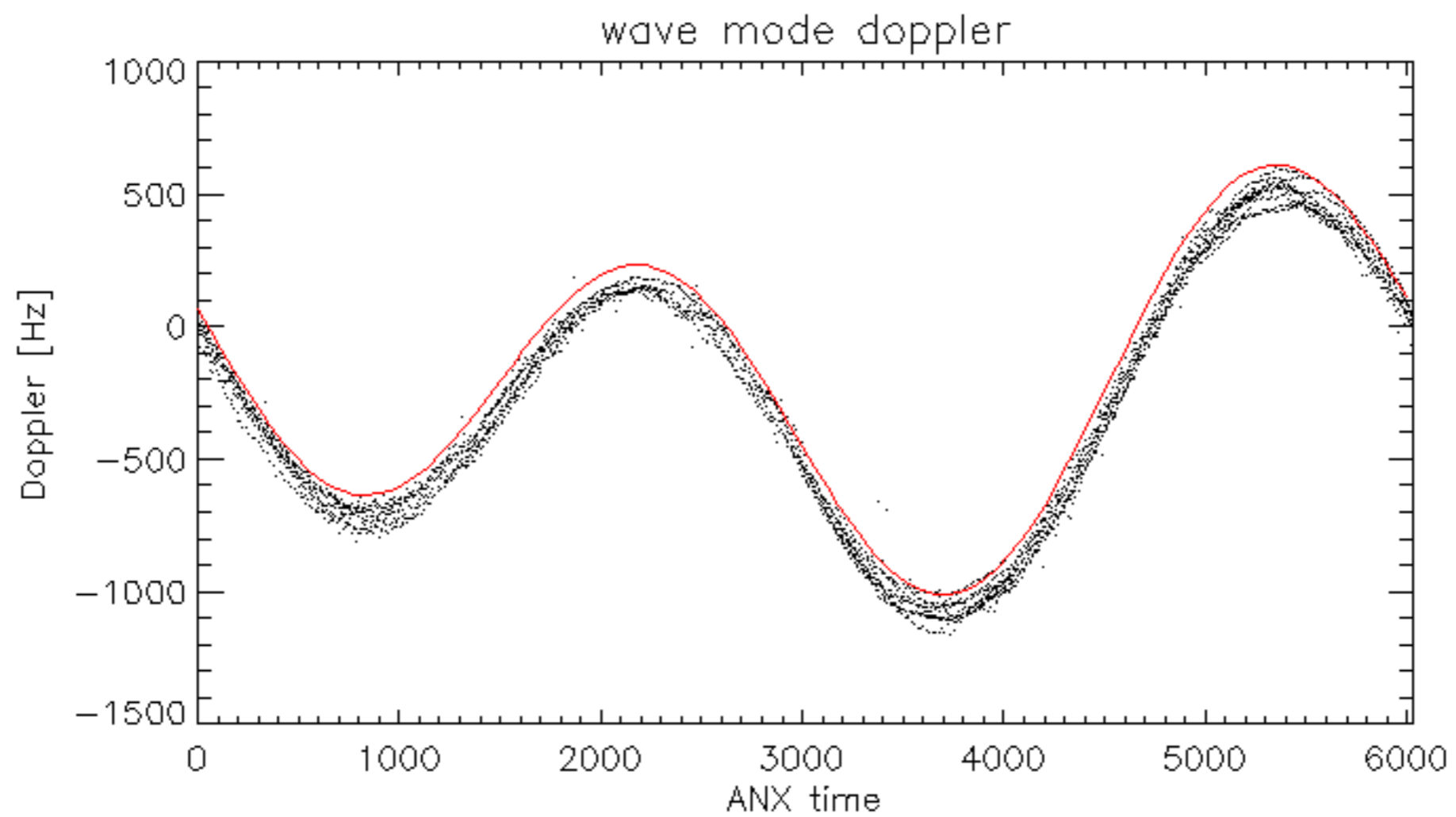
No anomalies observed Doppler evolution.  
Doppler analysis performed over the last 60 days

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



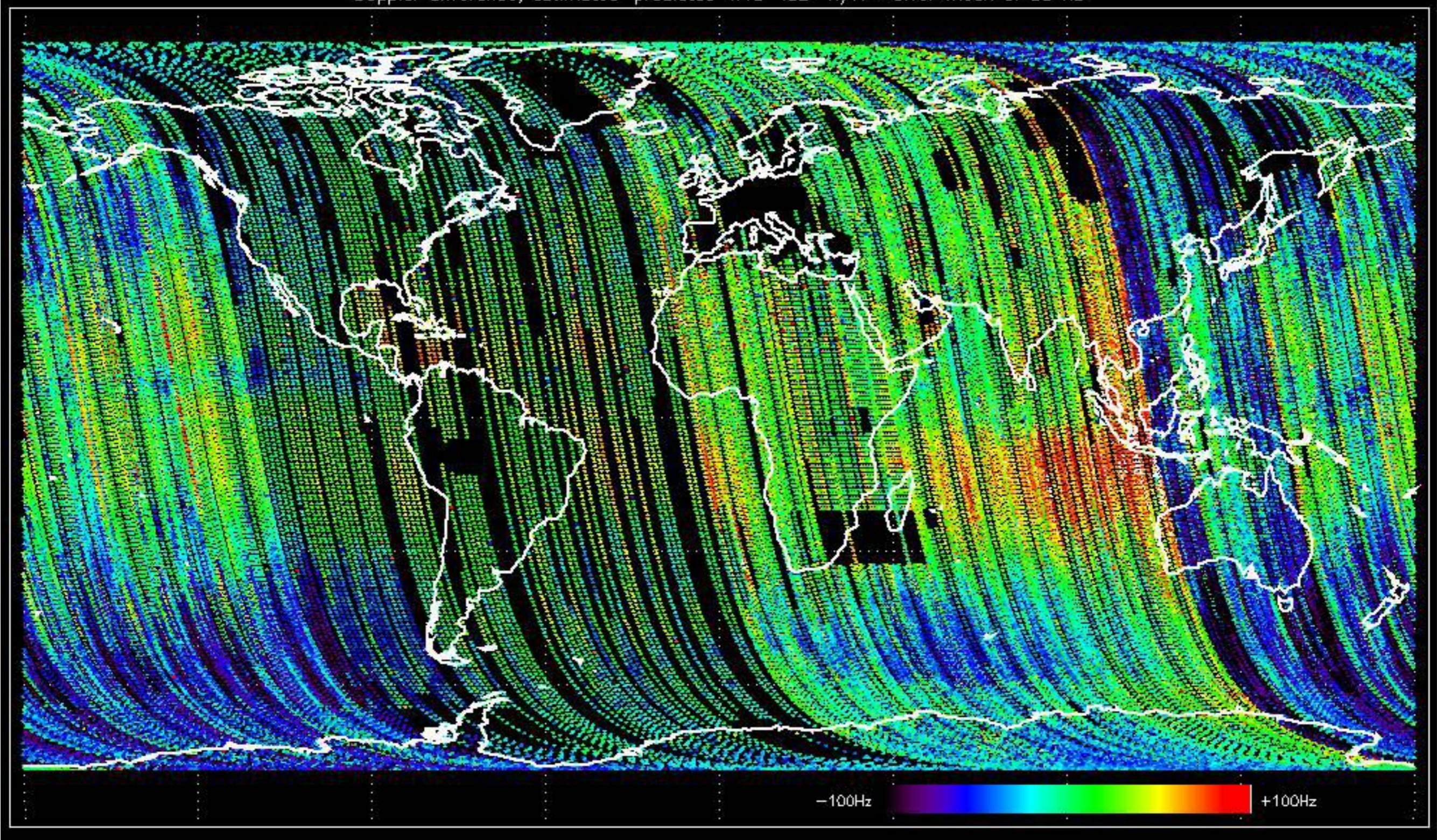
Doppler 'WS' 'IS2' 'V/V'



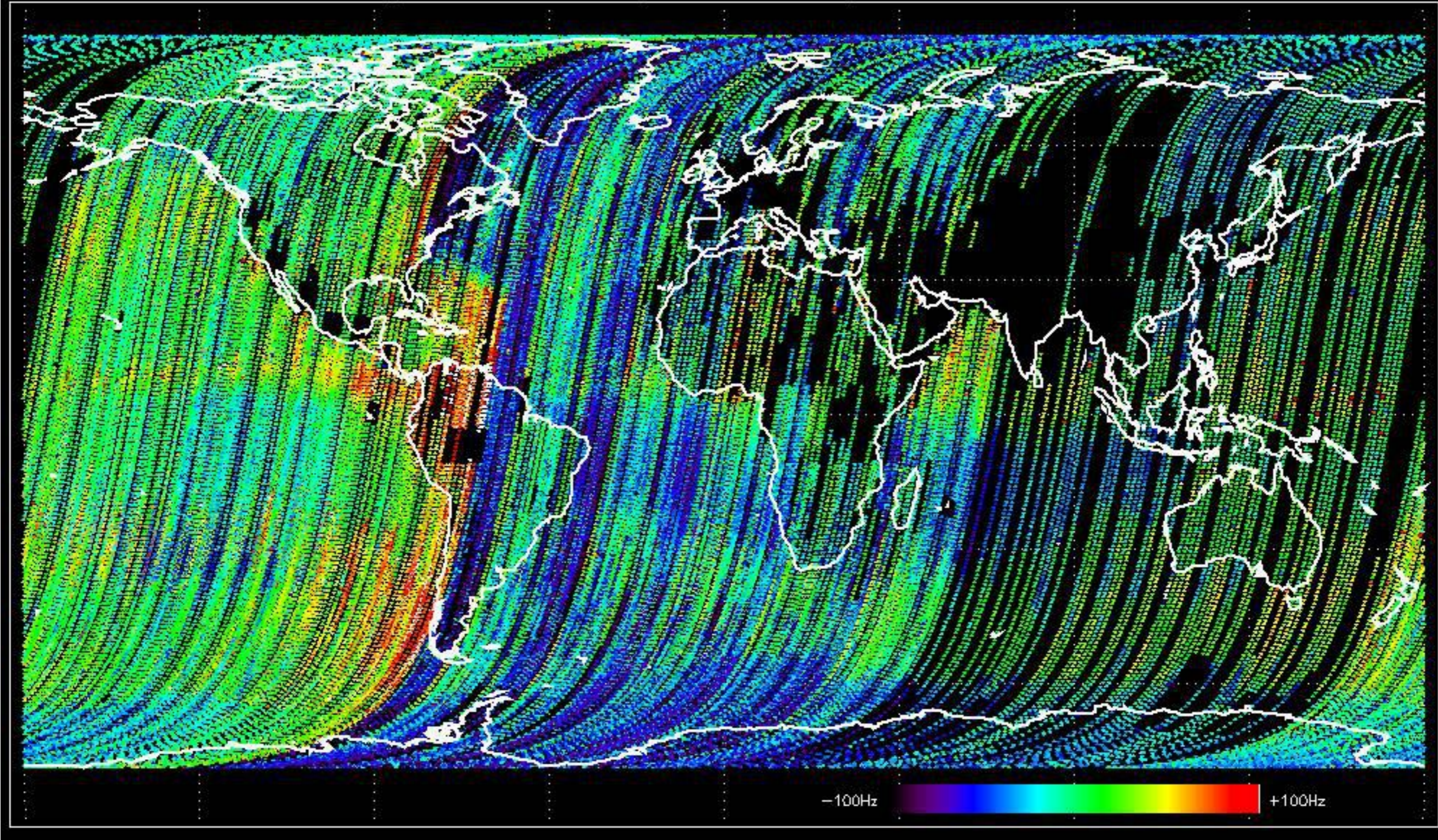




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



No anomalies observed on available MS products:

No anomalies observed.









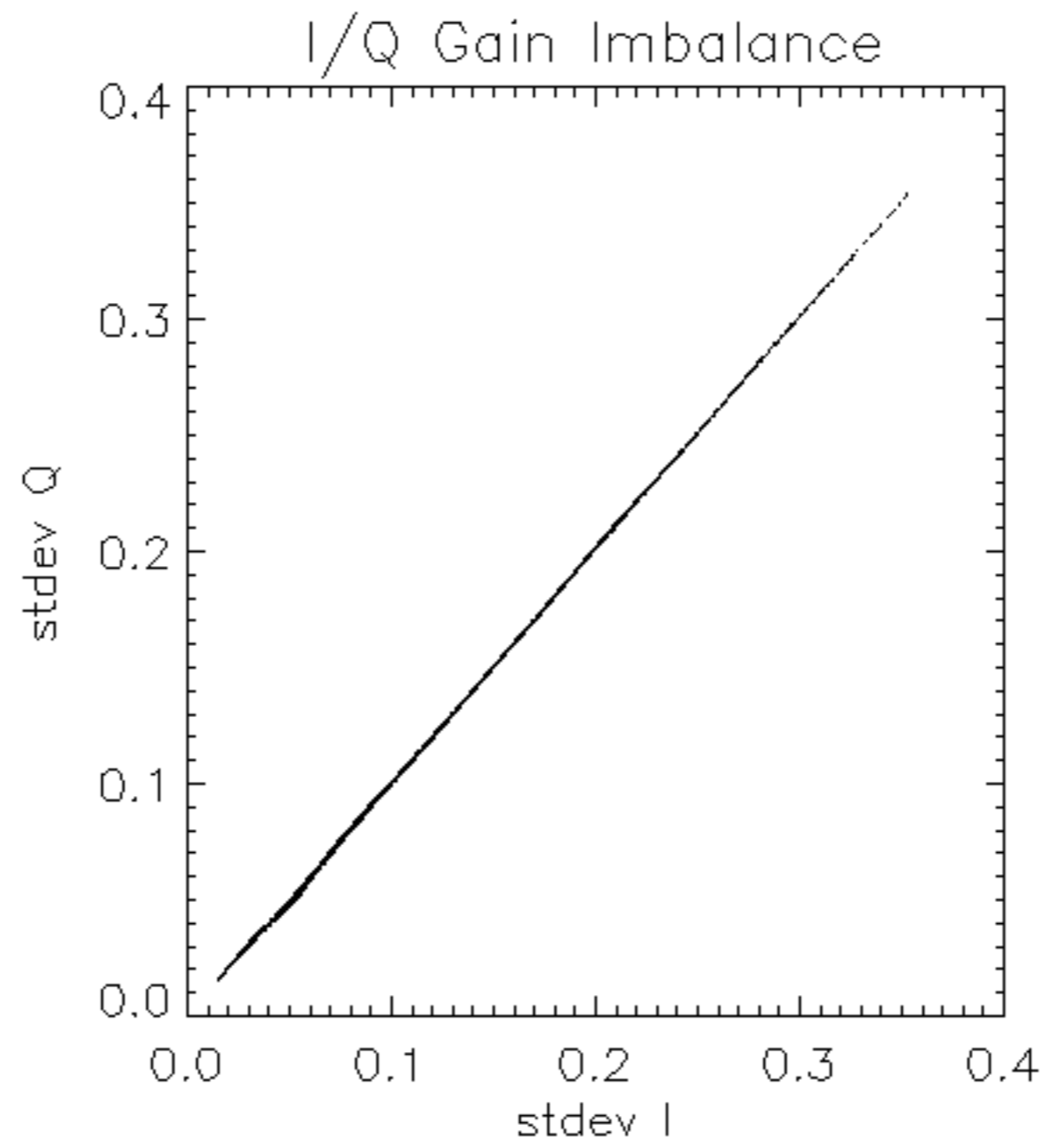


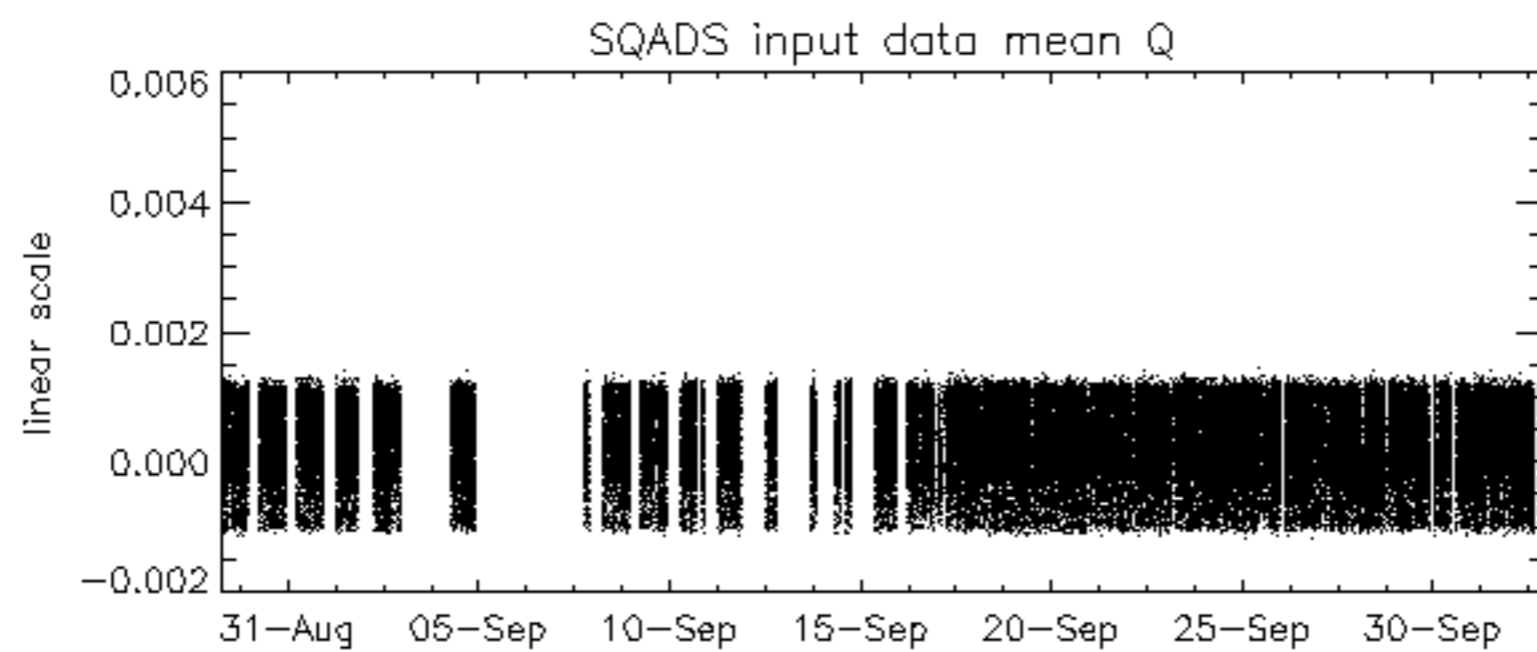
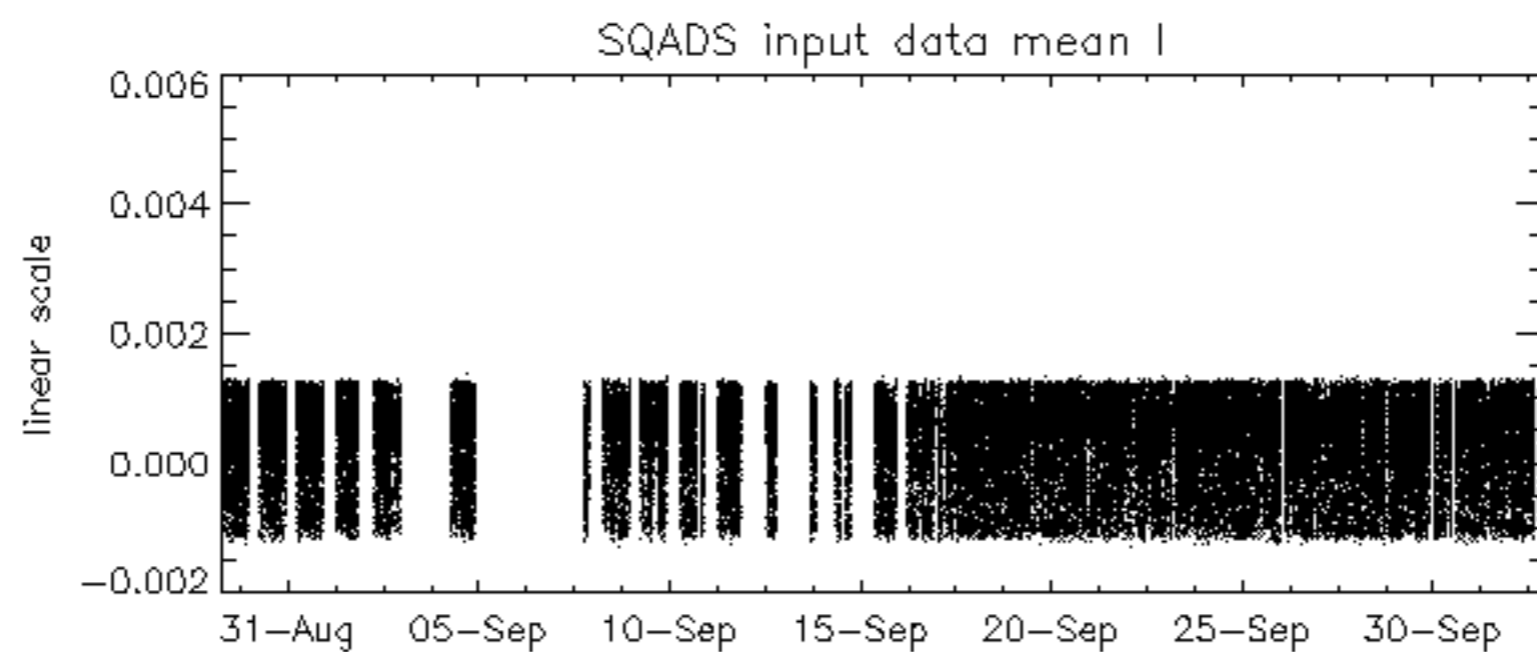
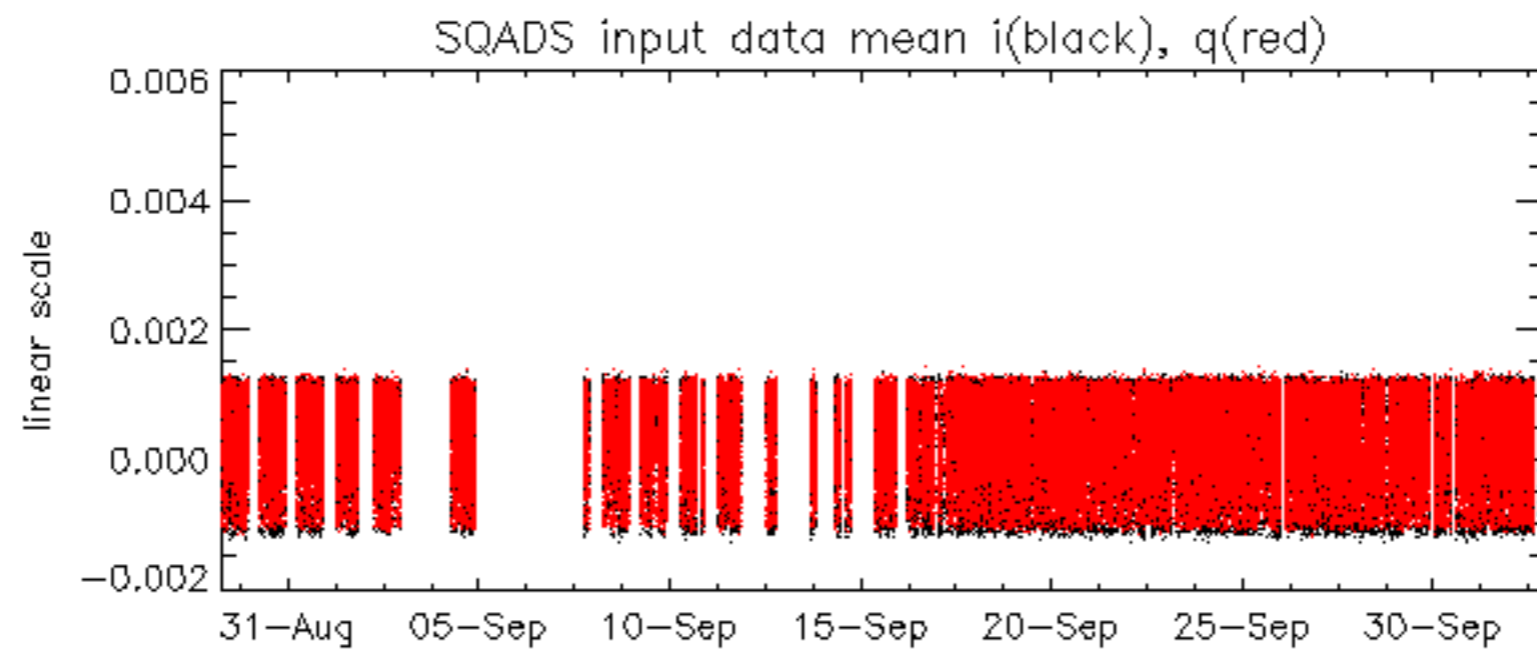


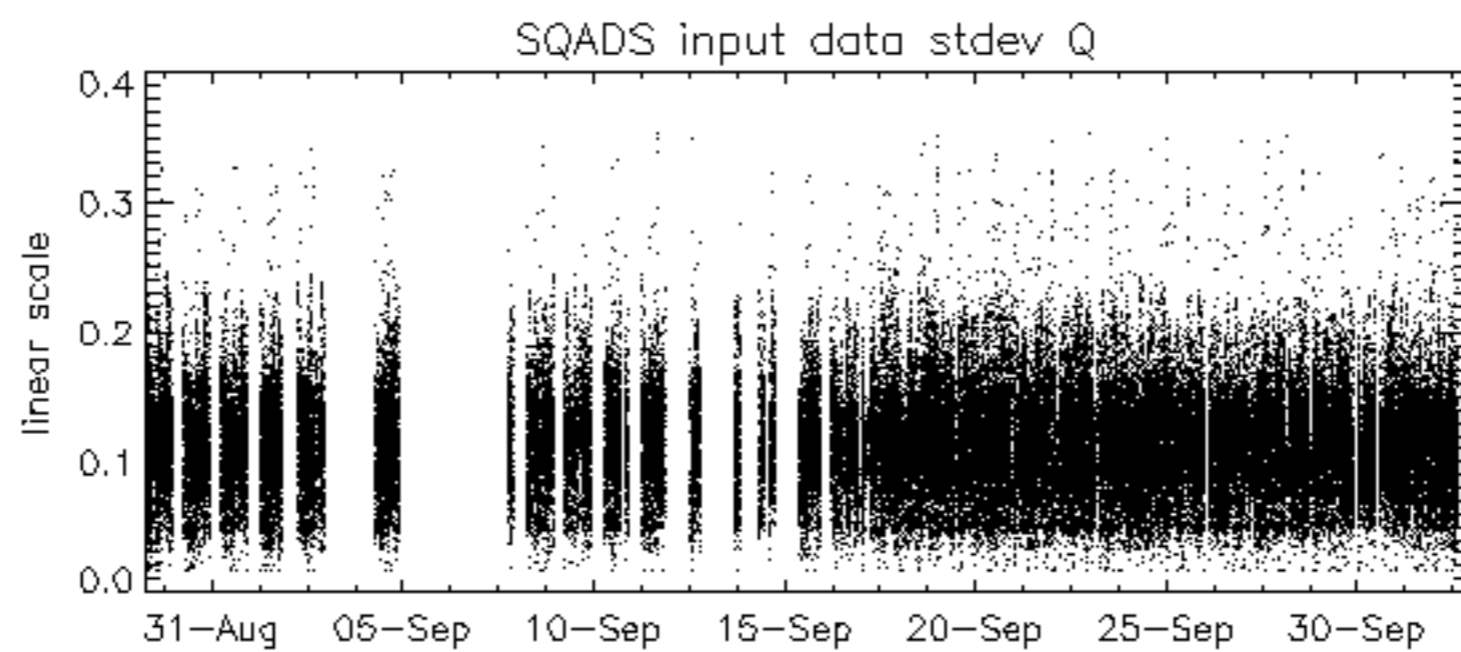
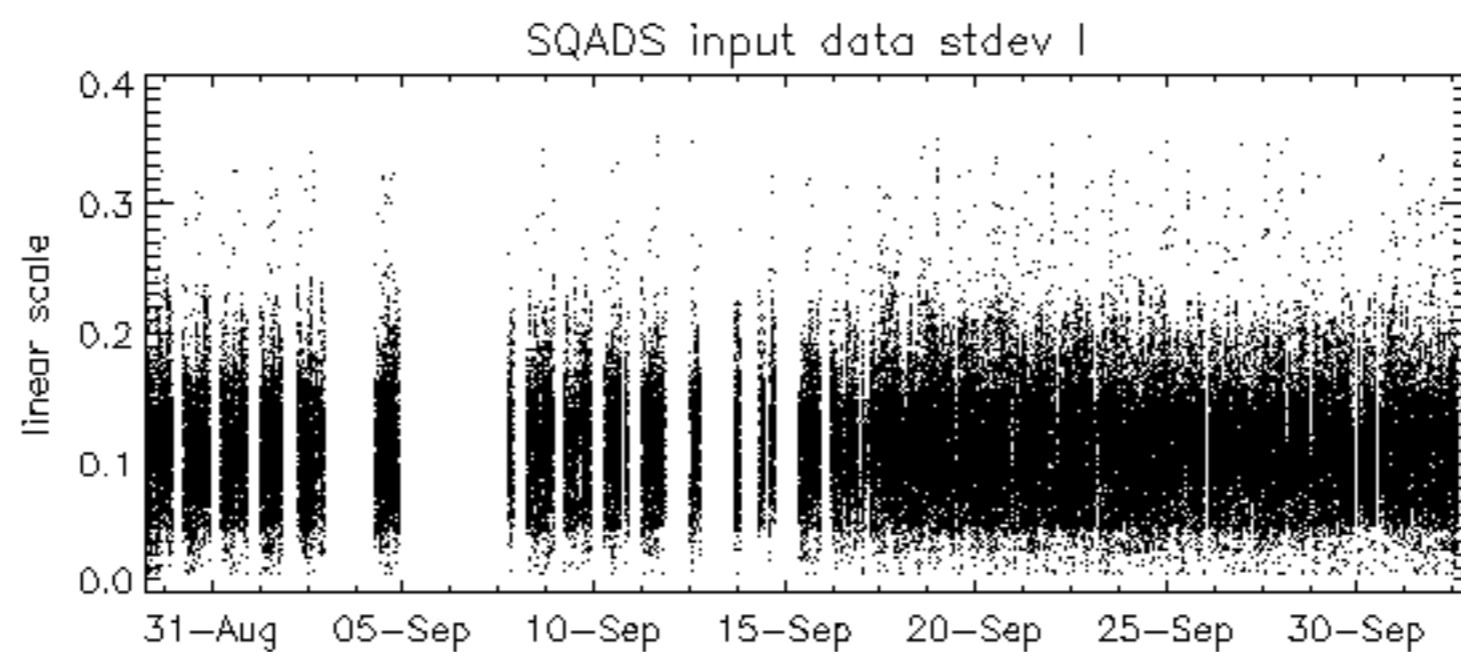
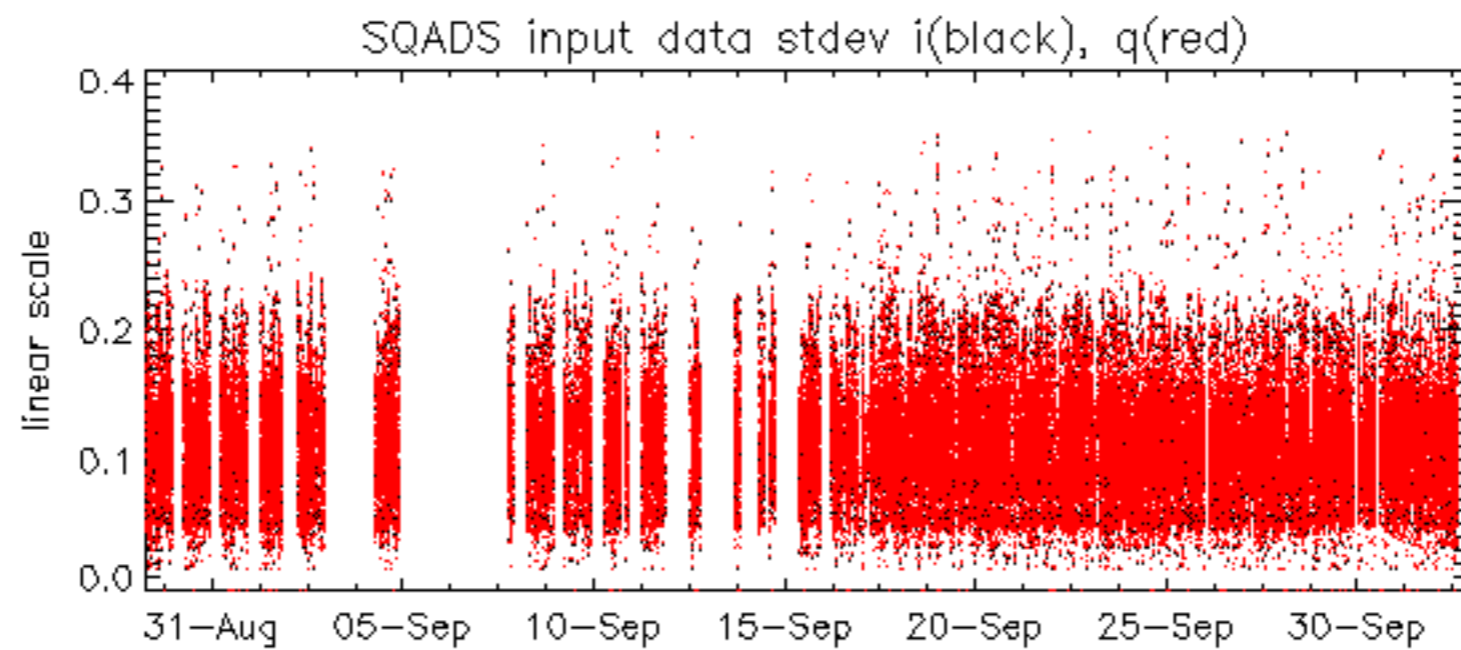












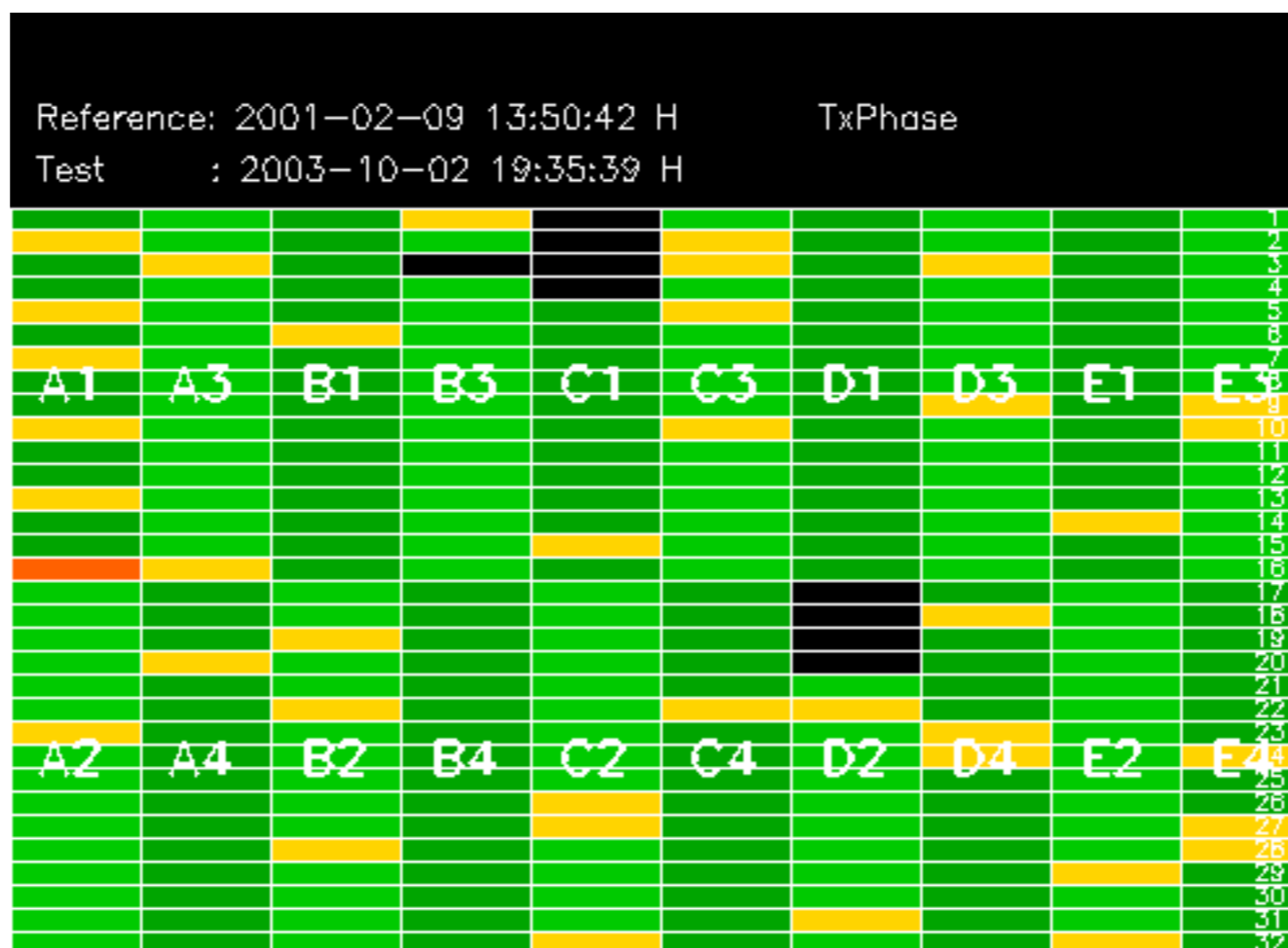


















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