

# PRELIMINARY REPORT OF 040306

ATTENTION: This report is automatically generated no comments are provided on data analysis

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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.

### 2.2 - Browse Visual Inspection

### 2.3 - Data Analysis

-Stable wave internal calibration pulses gain and phase.

- Stable raw data statistics.
- Nominal Doppler behavior.

### 3 - Module Stepping Mode

The MS mode provides an internal health check on an individual module basis. The purpose of this mode is to identify any malfunctioning modules and to identify modules for which calibration offsets are to be applied.

No anomalies observed on available MS products:

Polarisation	Start Time
V	20040305 195403
H	20040304 202419

#### MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

#### MSM in H/H polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

### 4 - Internal calibration Results

No anomalies observed.

#### 4.1 - Daily statistics

## 4.2 - Cyclic statistics



## 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	0.000457652
	stdev	2.53898e-07
MEAN Q	mean	0.000443069
	stdev	2.93738e-07



### 5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.124051
	stdev	0.00121490
STDEV Q	mean	0.124279
	stdev	0.00122836



### 5.3 - Gain imbalance I/Q



## 6 - Wave Doppler Analysis

Preliminary report. The data is not yet controlled

### 6.1 - Unbiased Doppler Error

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

Evolution of Absolute Doppler
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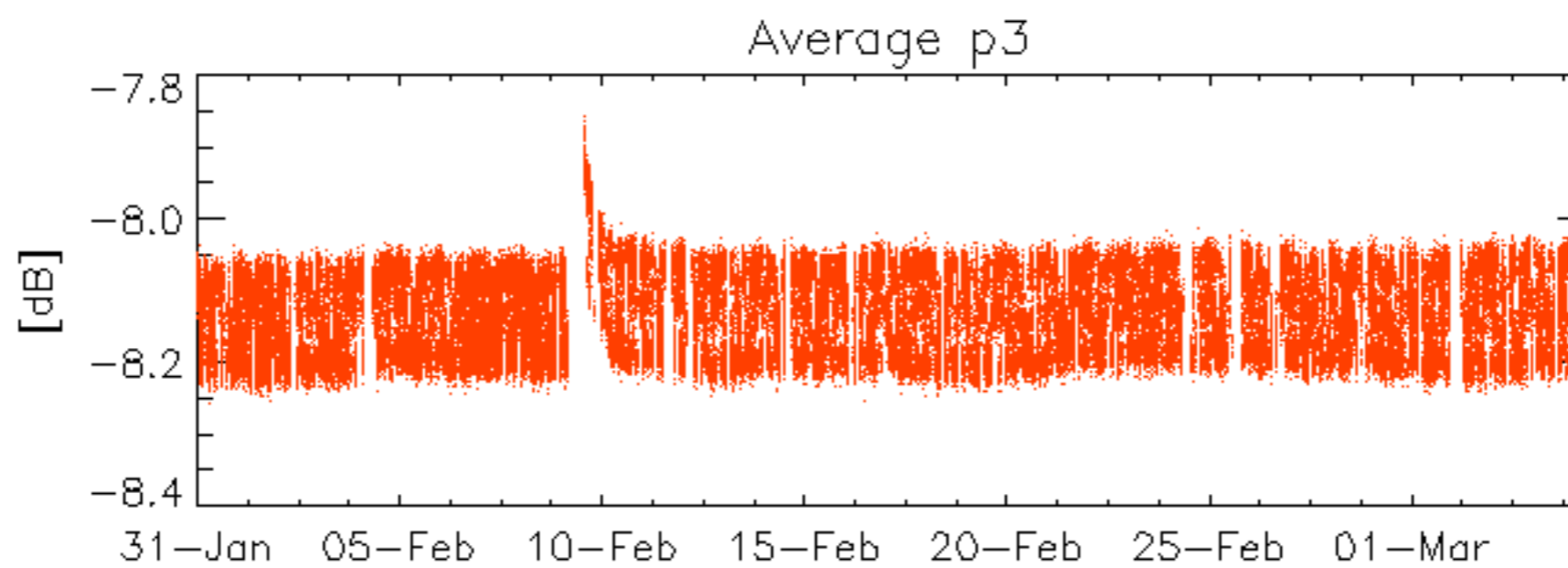
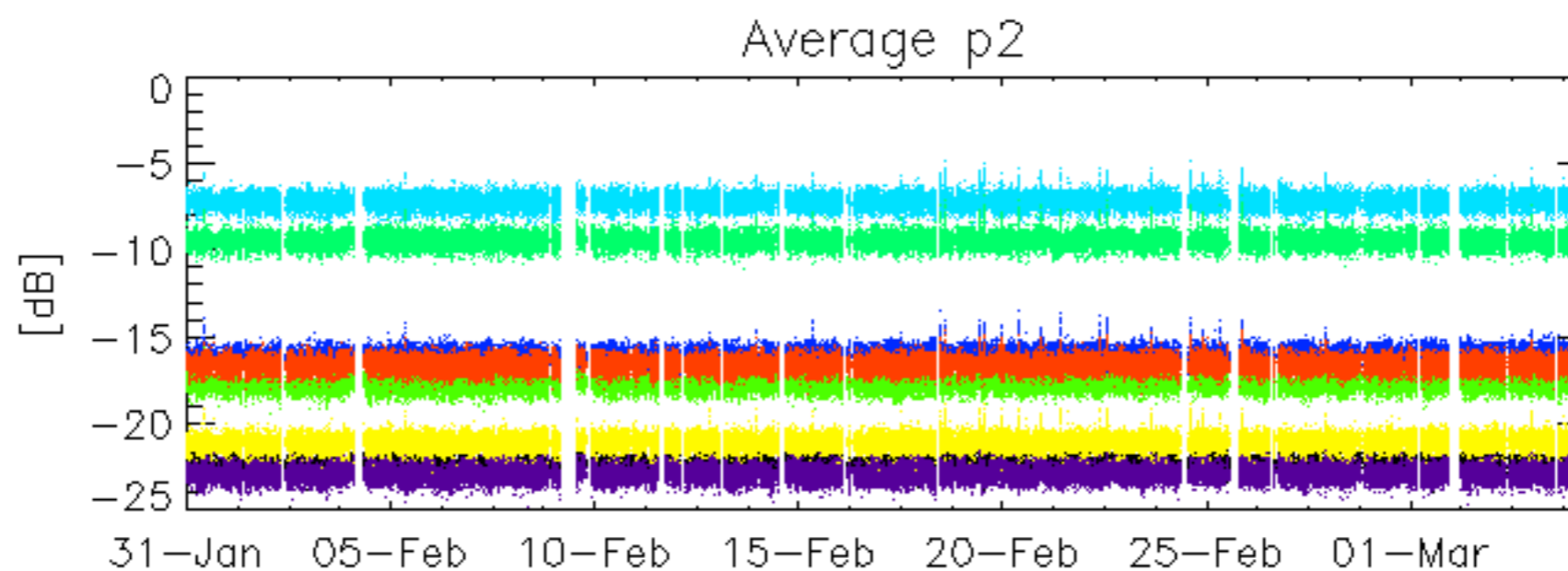
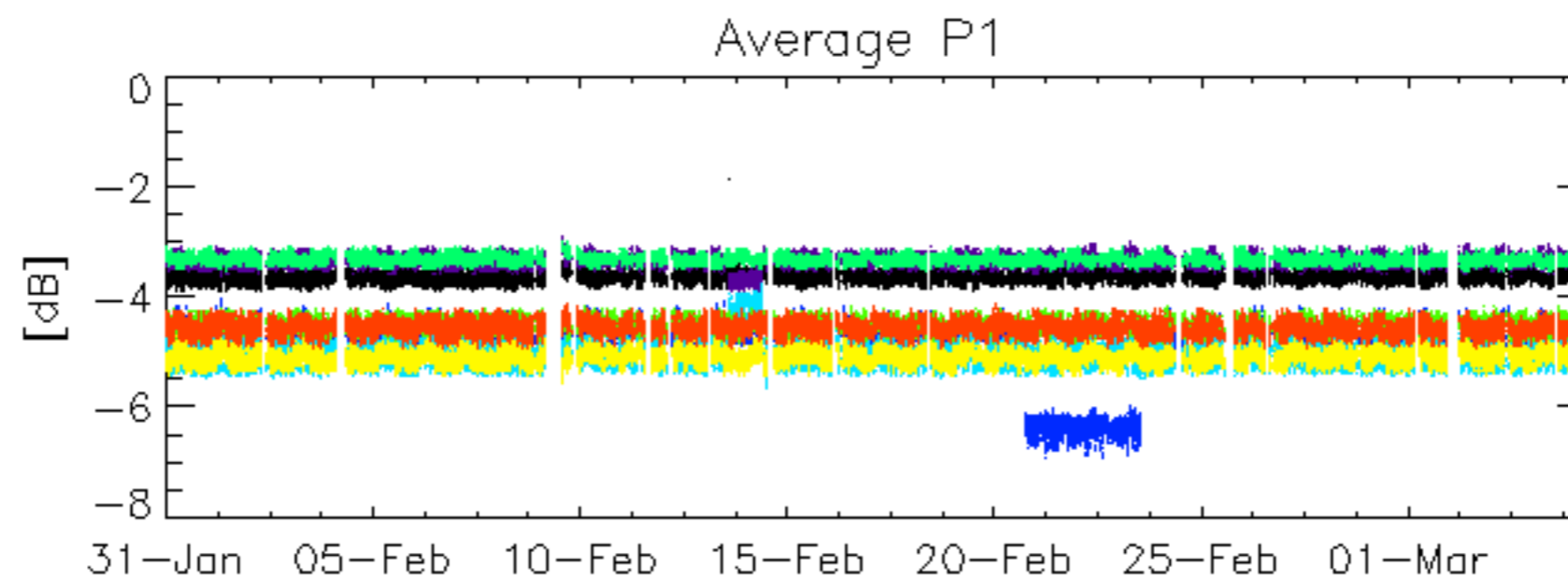
Ascending
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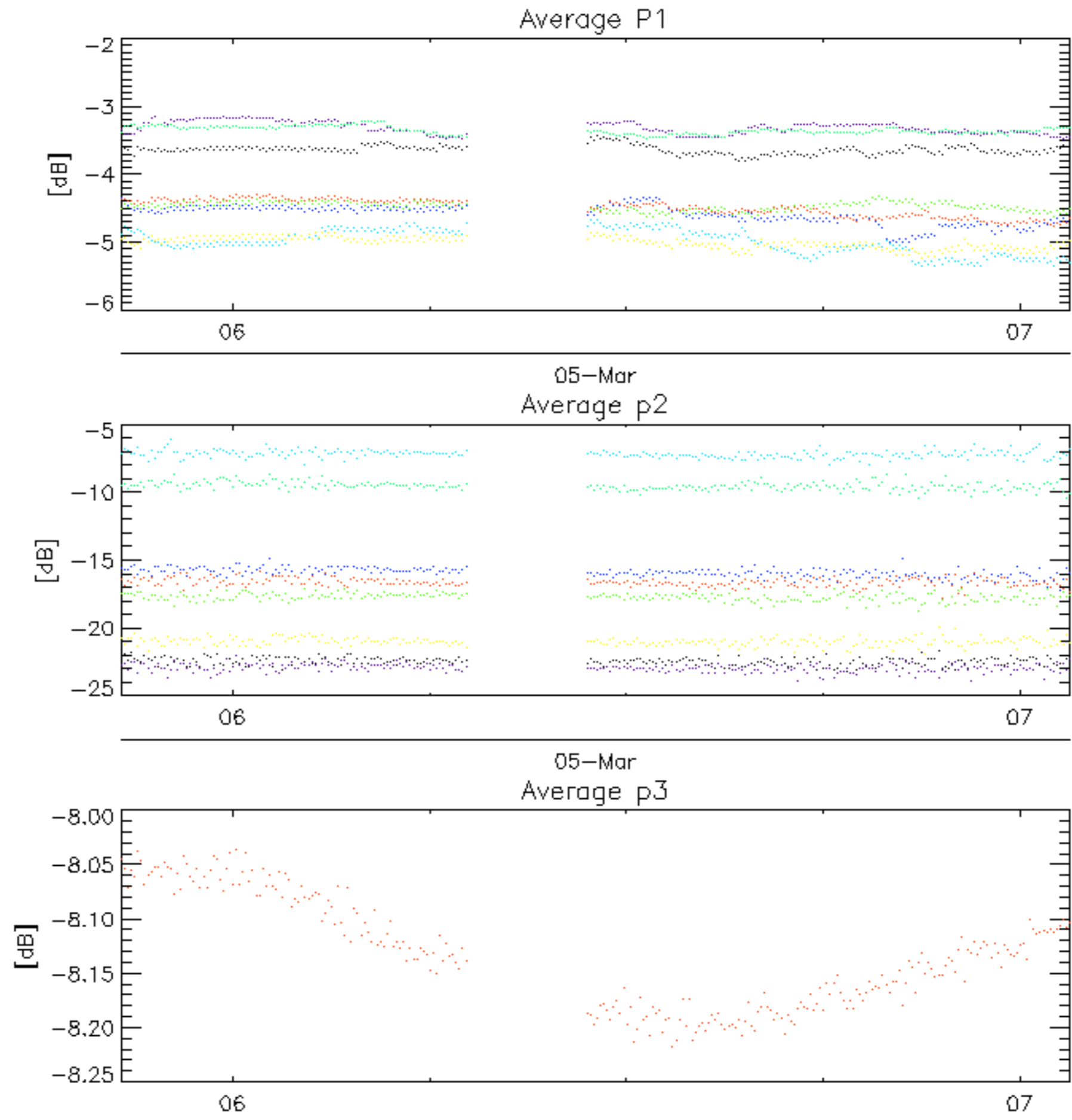
Descending
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### 6.1 - Doppler evolution versus ANX

Evolution Doppler error versus ANX
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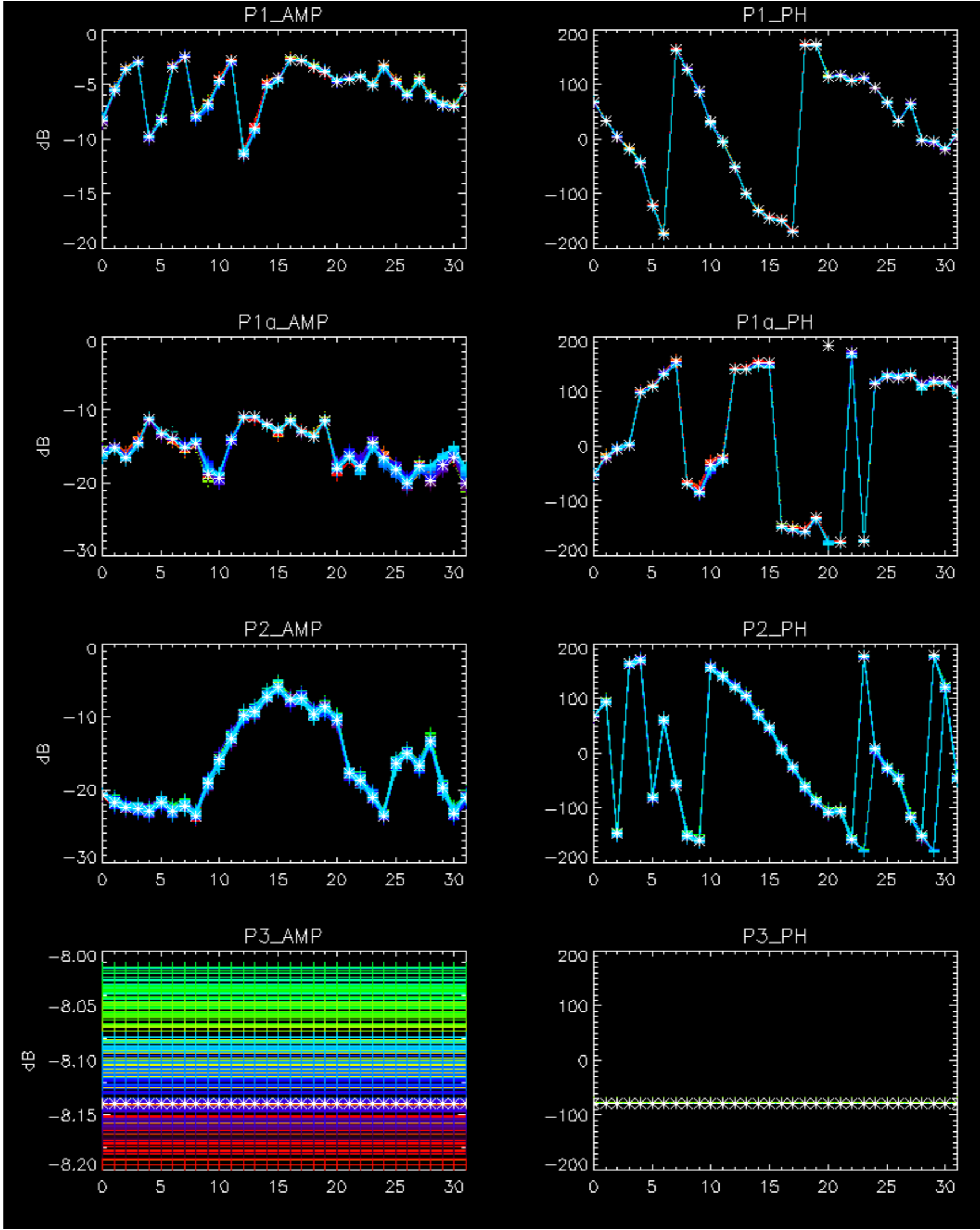






rows: **3** **7** **11** **15** **19** **22** **24** **28**

No anomalies observed.

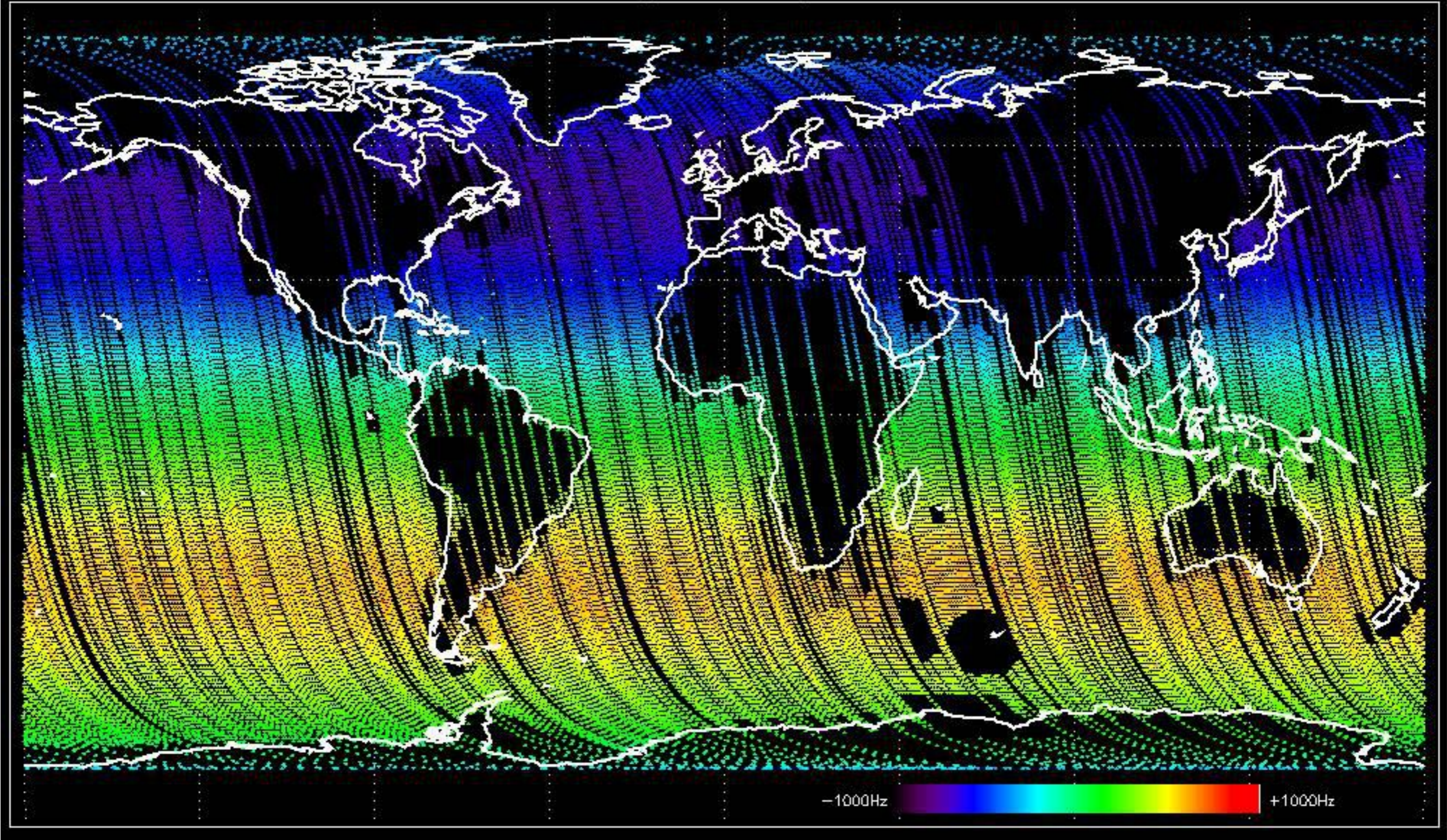




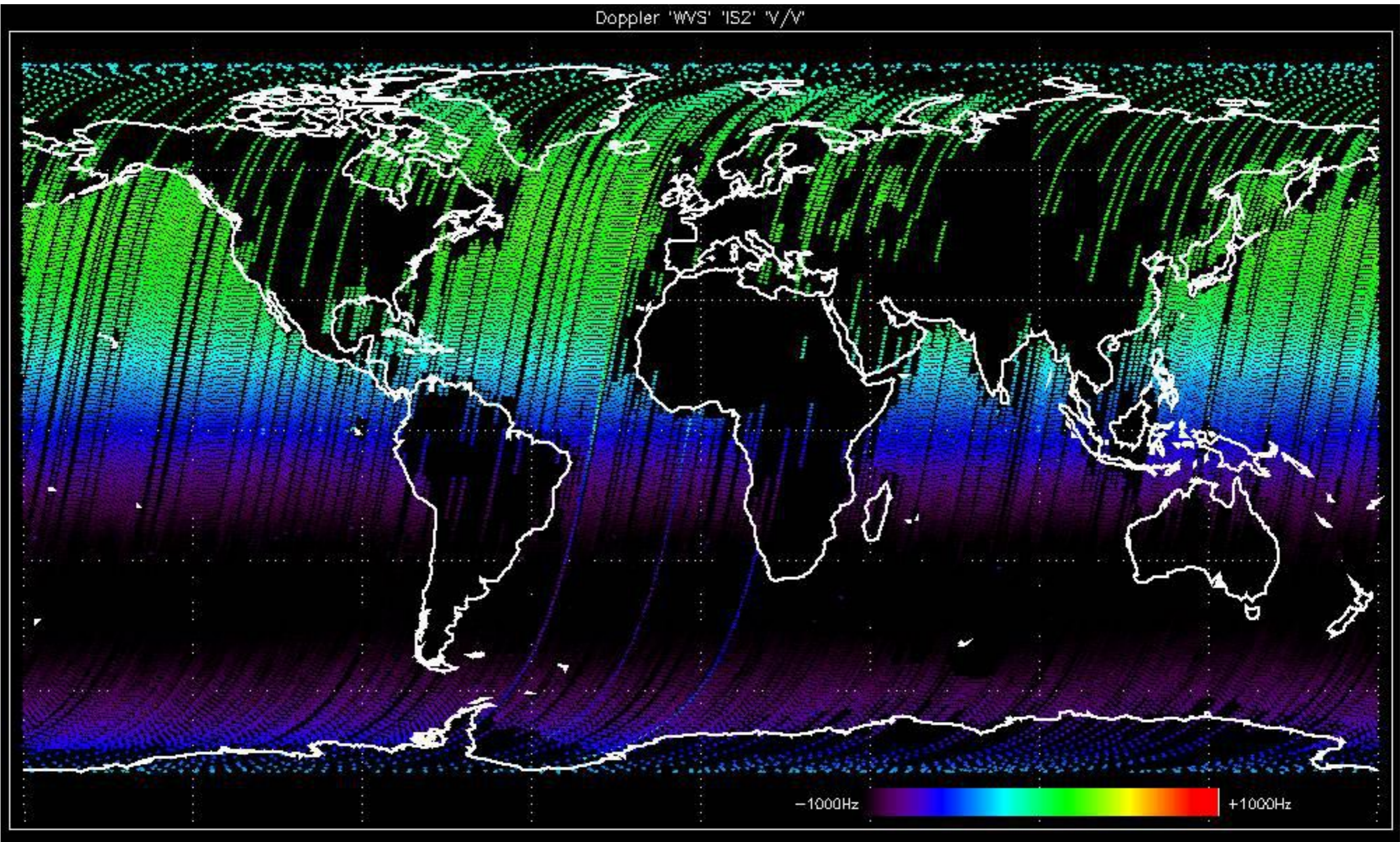
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

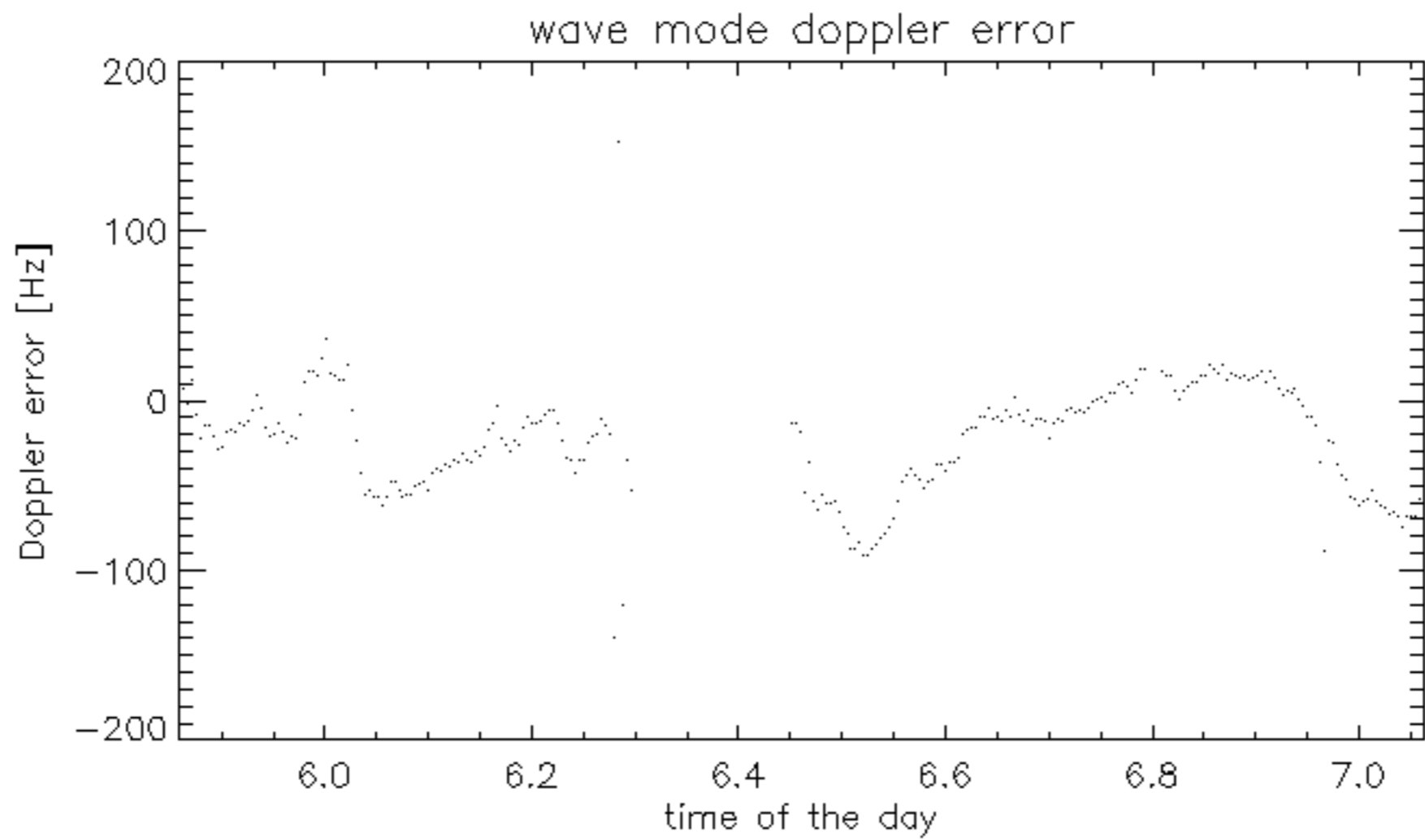
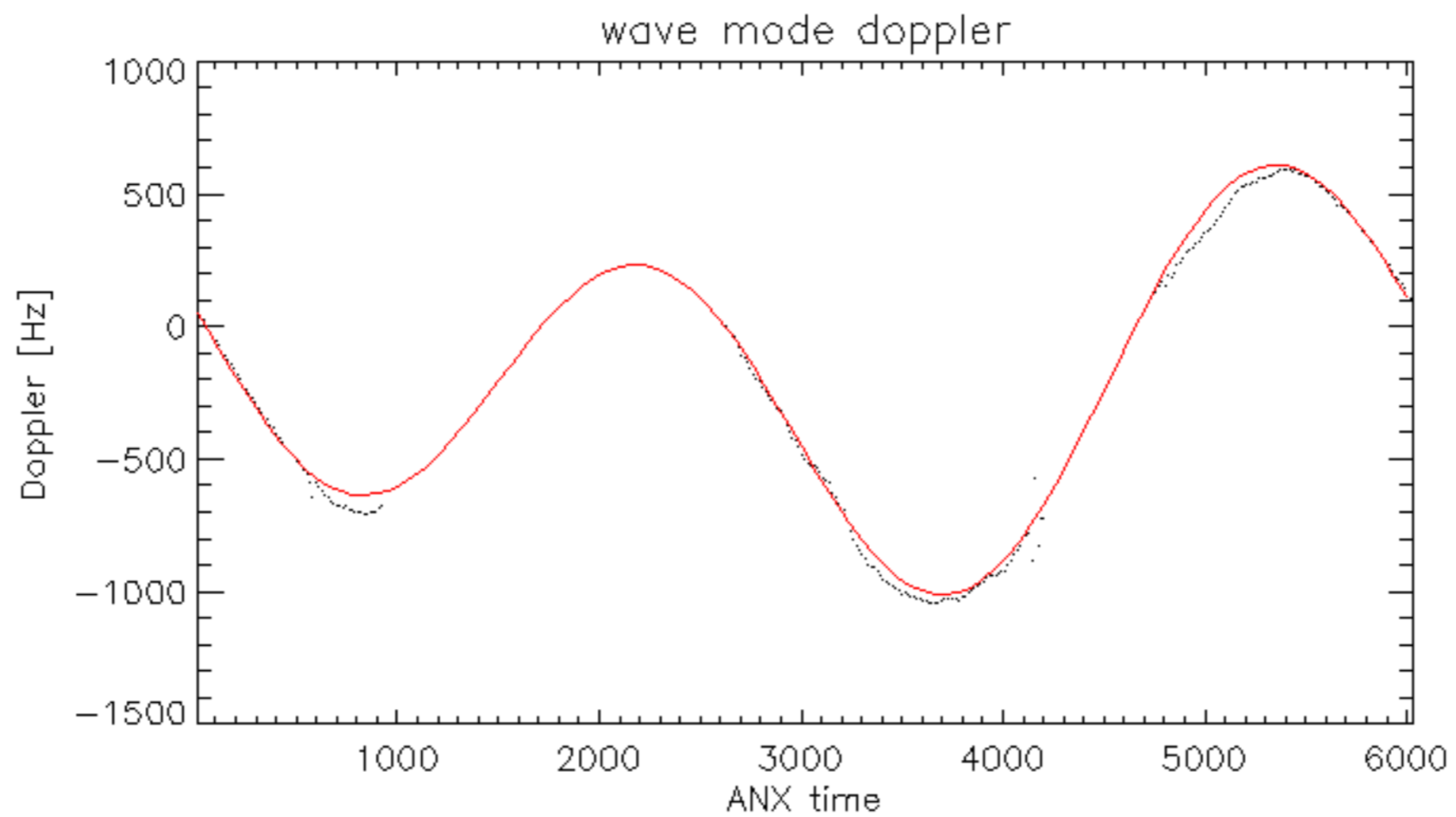


Doppler 'WVS' 'IS2' 'H/H'

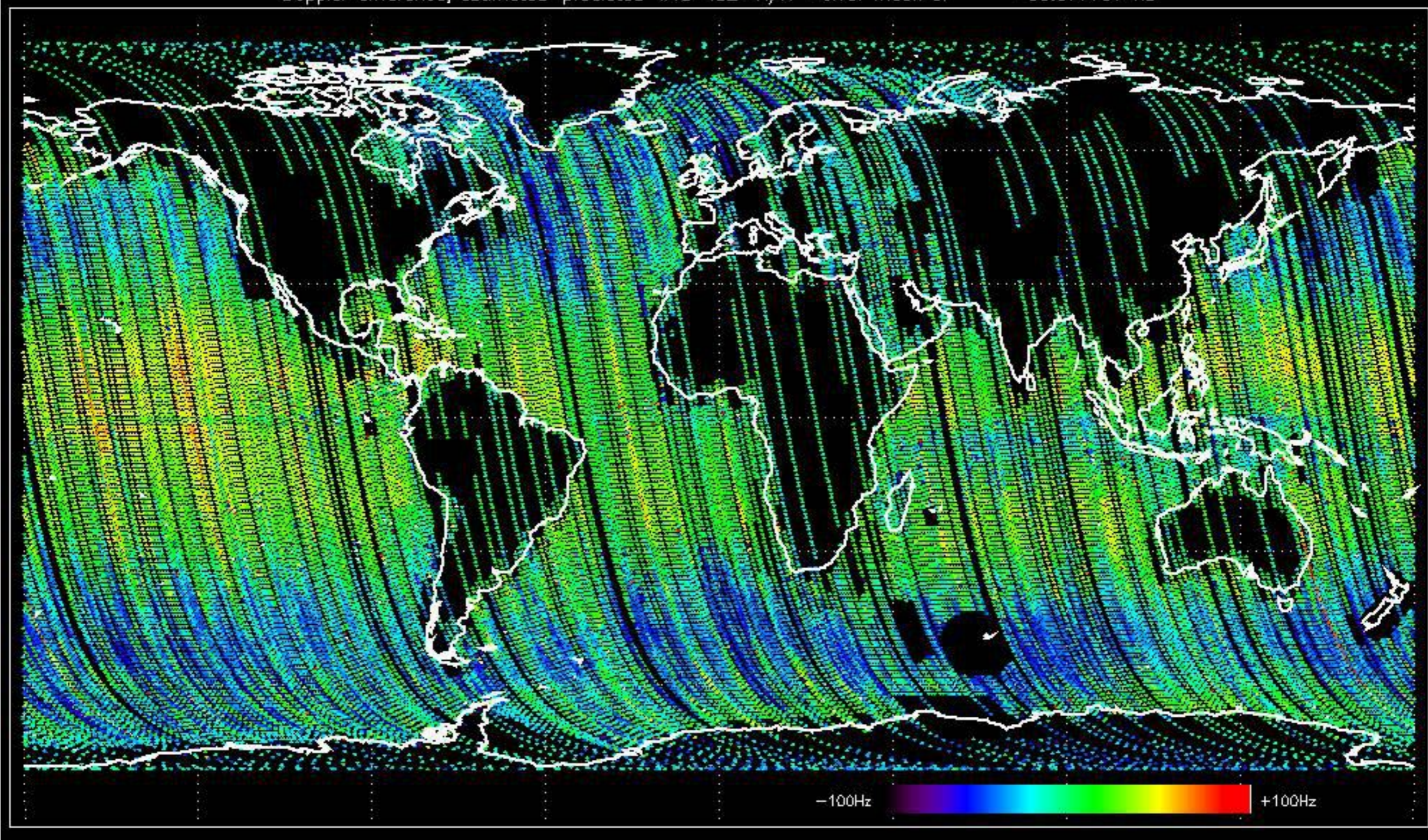


Doppler 'WVS' 'ISZ' 'V/V'

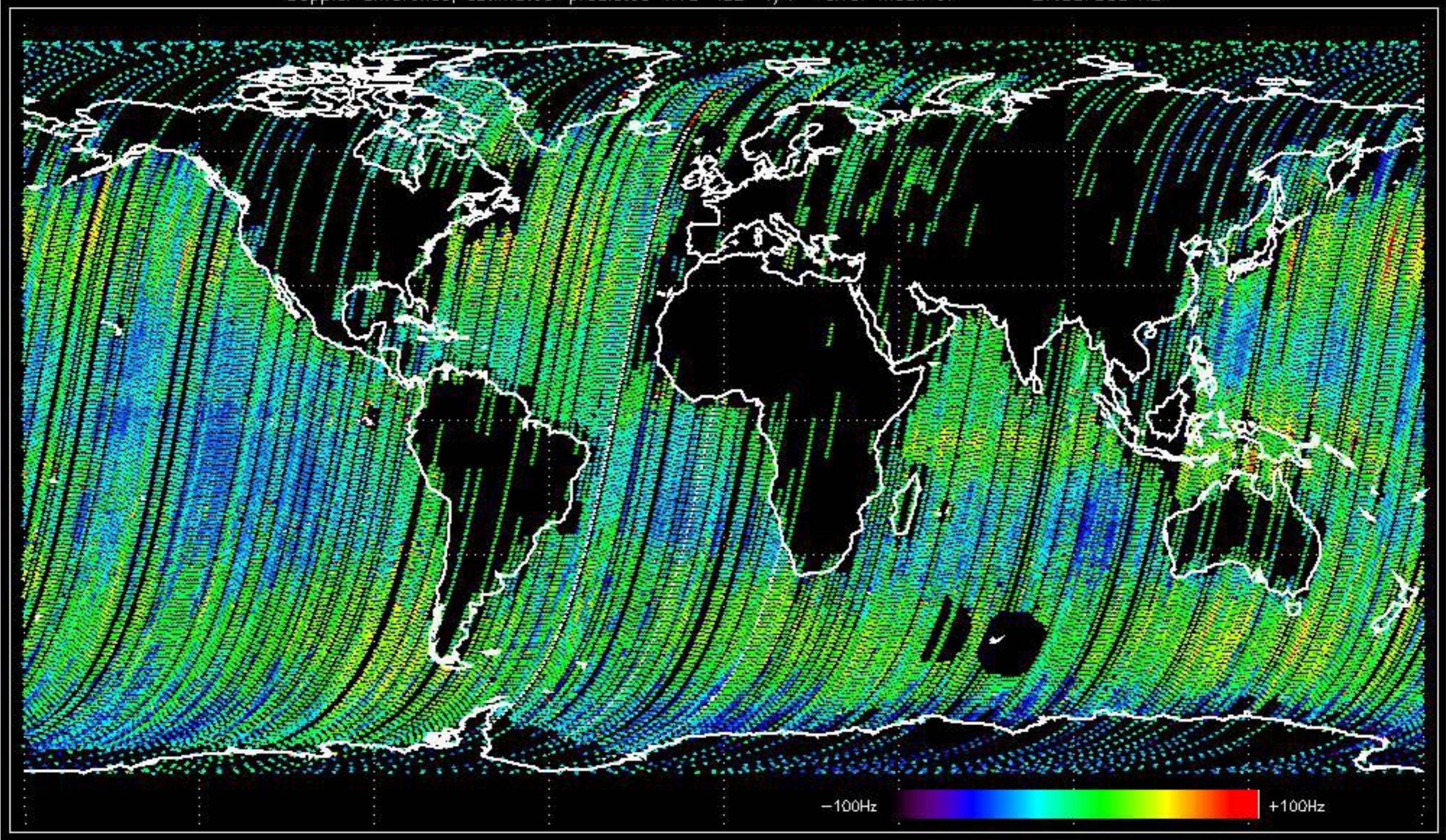




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -30.677797 Hz



Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -27.887568 Hz



The MS mode provides an internal health check on an individual module basis.  
The purpose of this mode is to identify to identify any malfunctioning modules and  
to identify modules for which calibration offsets are to be applied.  
No anomalies observed on available MS products:



No anomalies observed.









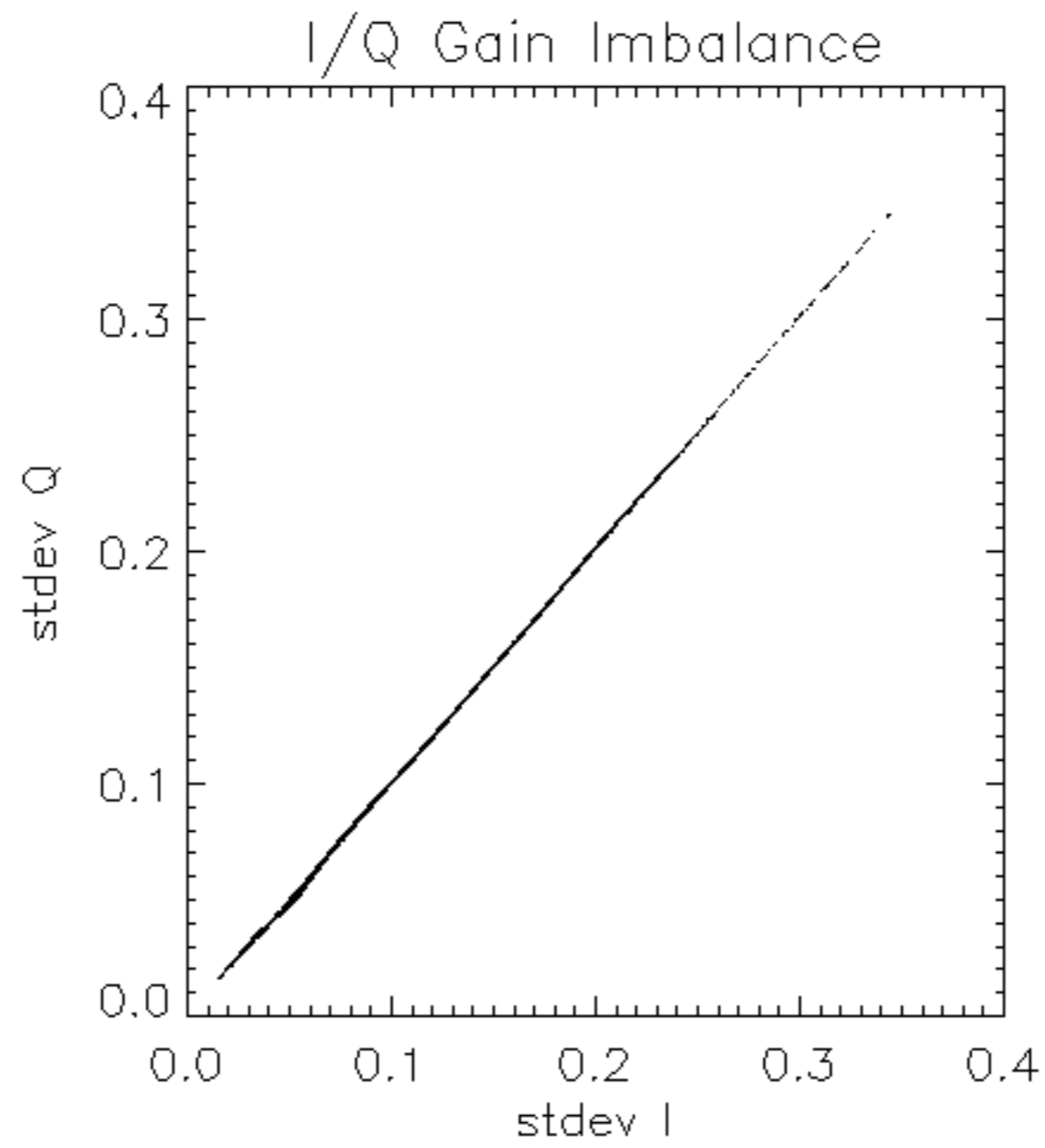


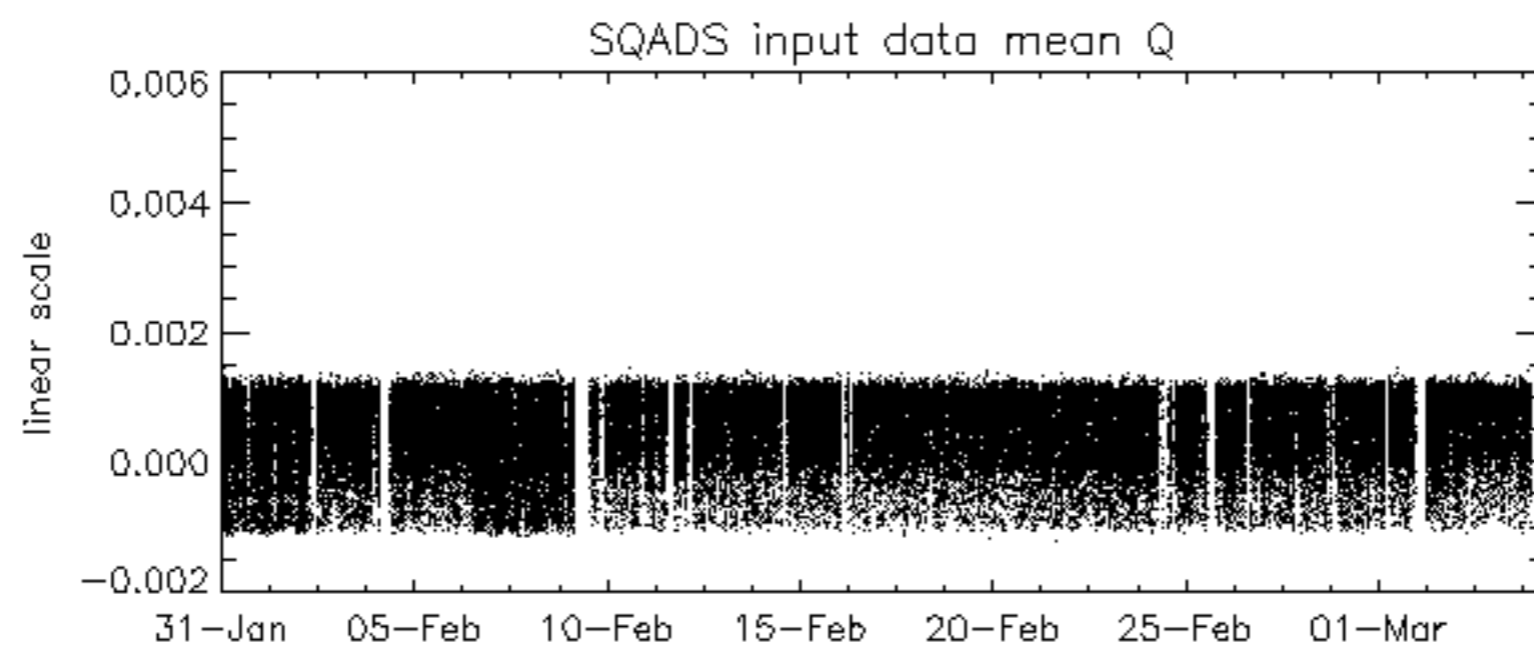
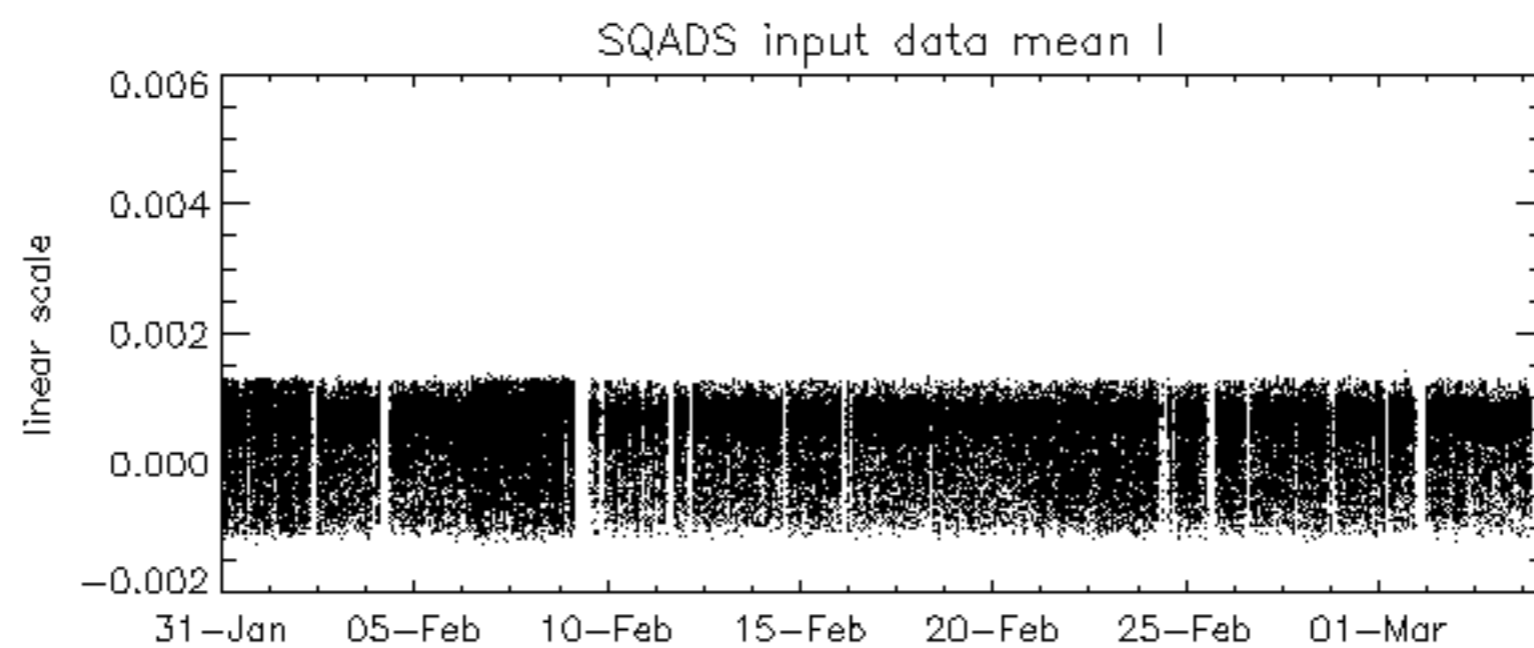
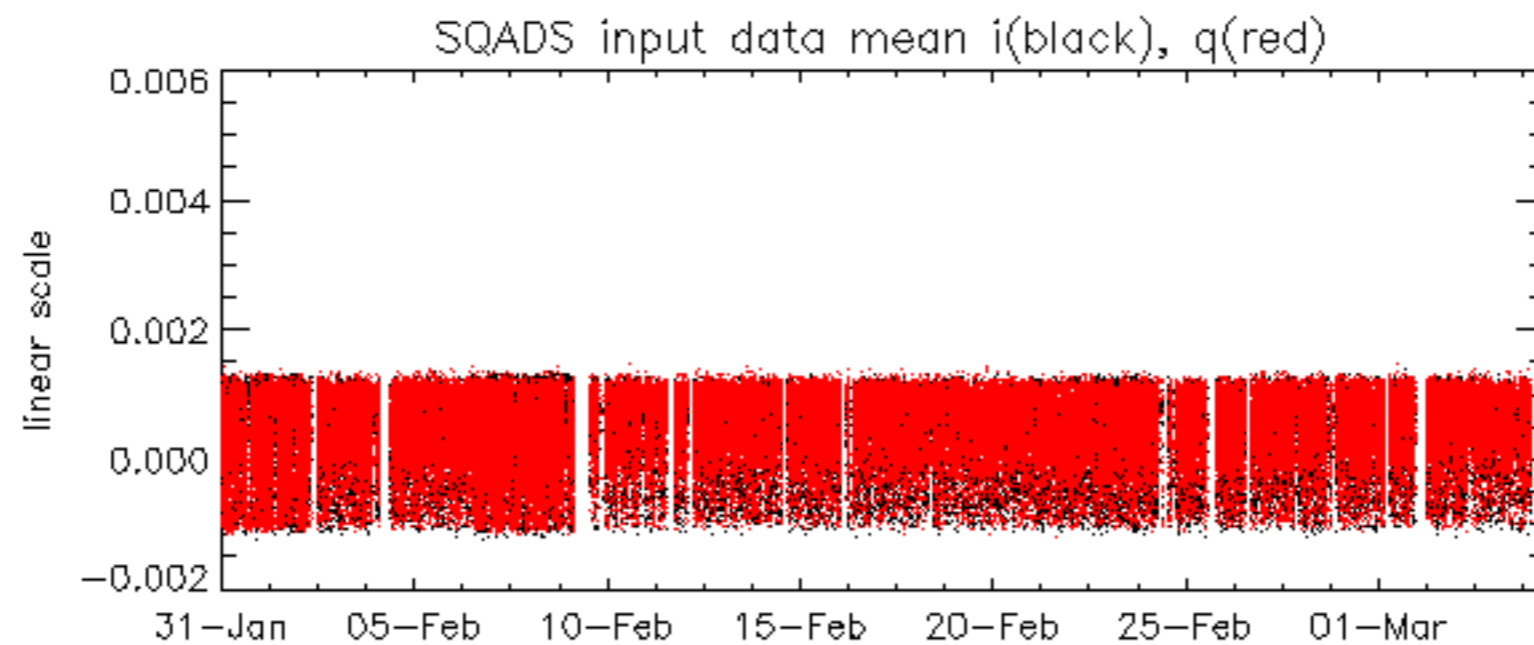


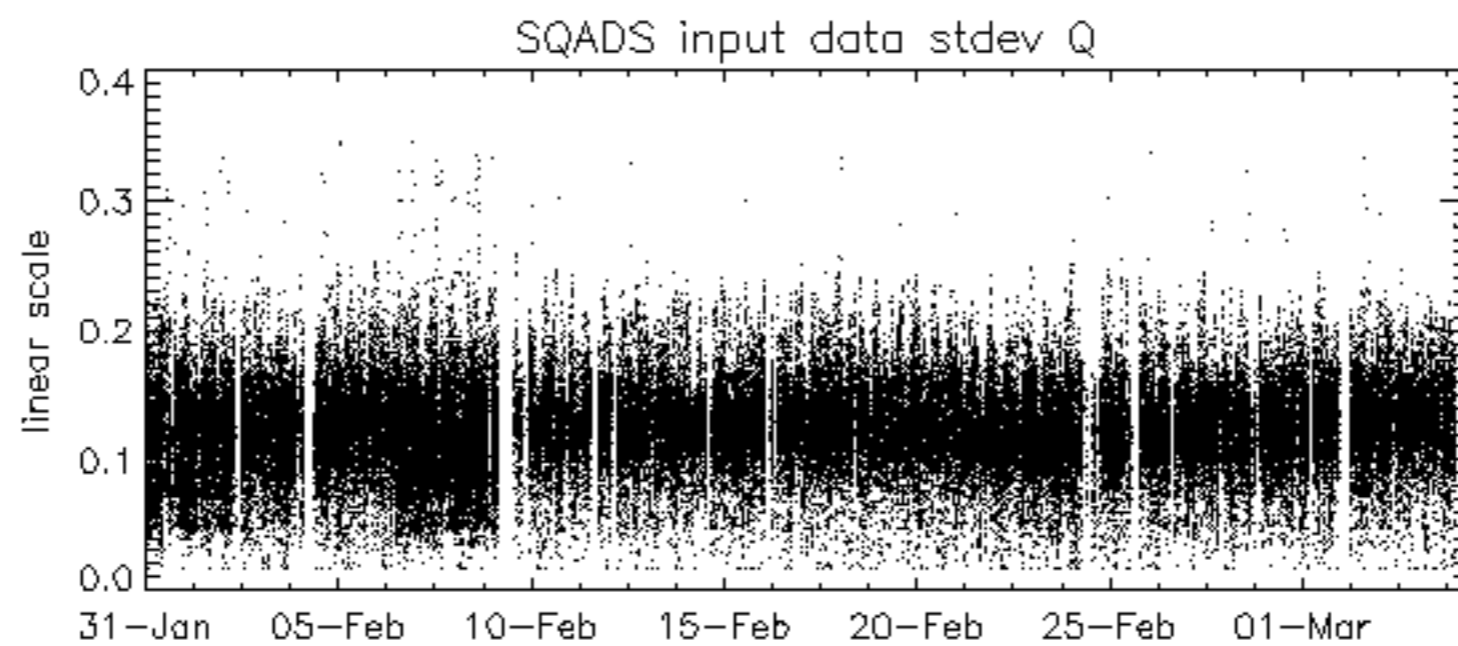
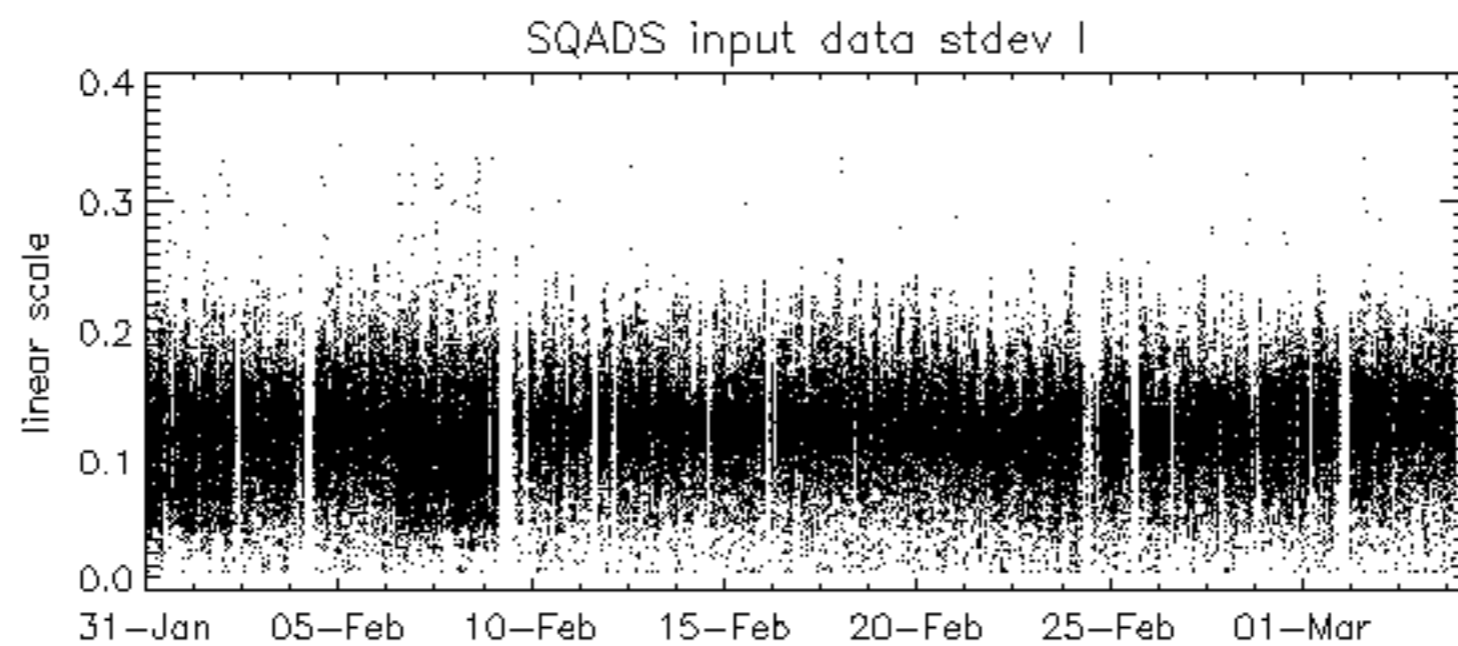
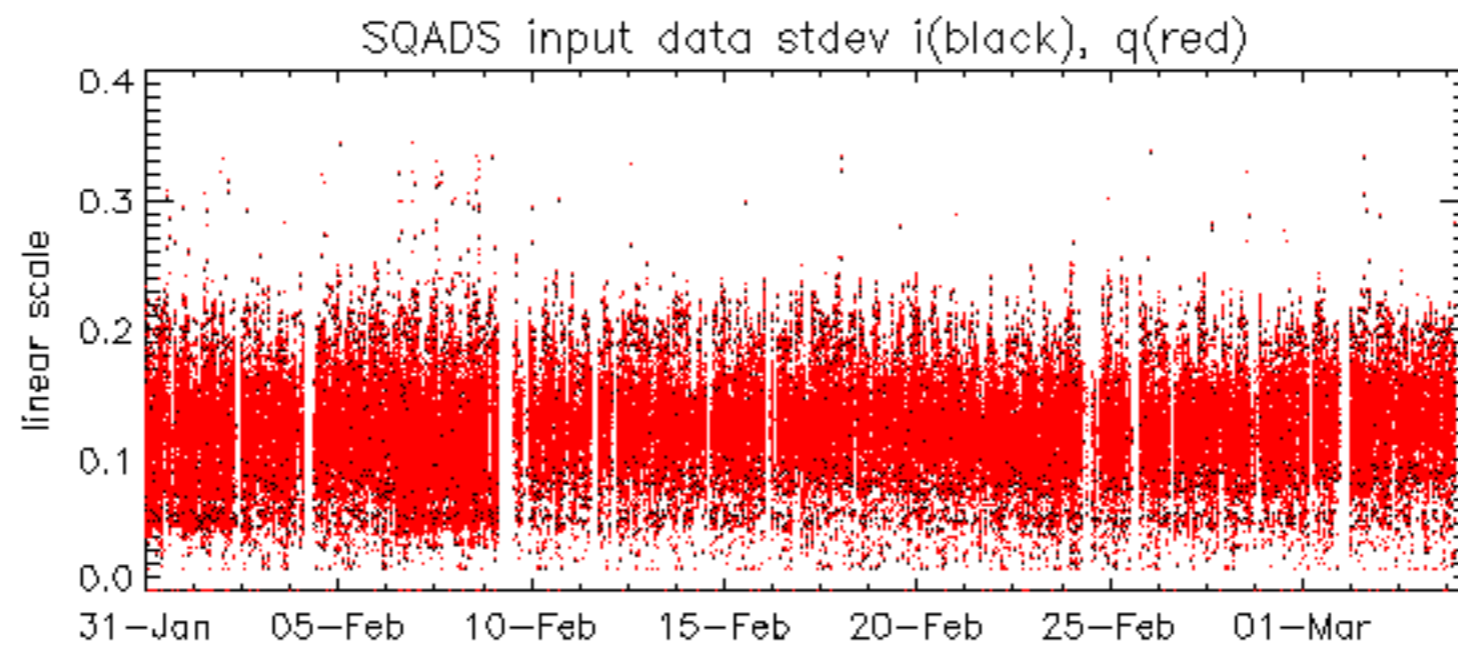






























No unavailabilities during the reported period.