

# PRELIMINARY REPORT OF 040222

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	20040221 182202
H	20040221 182042

#### 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	-3.62695	-22.3914	-8.13191
	stdev	0.00621686	0.0768985	0.00262169

24	mean	-5.08823	-21.0683	-8.13191
	stdev	0.0147720	0.0784001	0.00262169



## 4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.65472	-22.4236	-8.13674
	stdev	0.00675448	0.0749317	0.00309961
24	mean	-5.10633	-21.0850	-8.13674
	stdev	0.0149241	0.0711657	0.00309961



## 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	0.000445024
	stdev	2.69789e-07
MEAN Q	mean	0.000398963
	stdev	3.15301e-07



### 5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.121636
	stdev	0.00131878

STDEV Q	mean	0.121868
	stdev	0.00133331



### 5.3 - Gain imbalance I/Q



## 6 - Wave Doppler Analysis

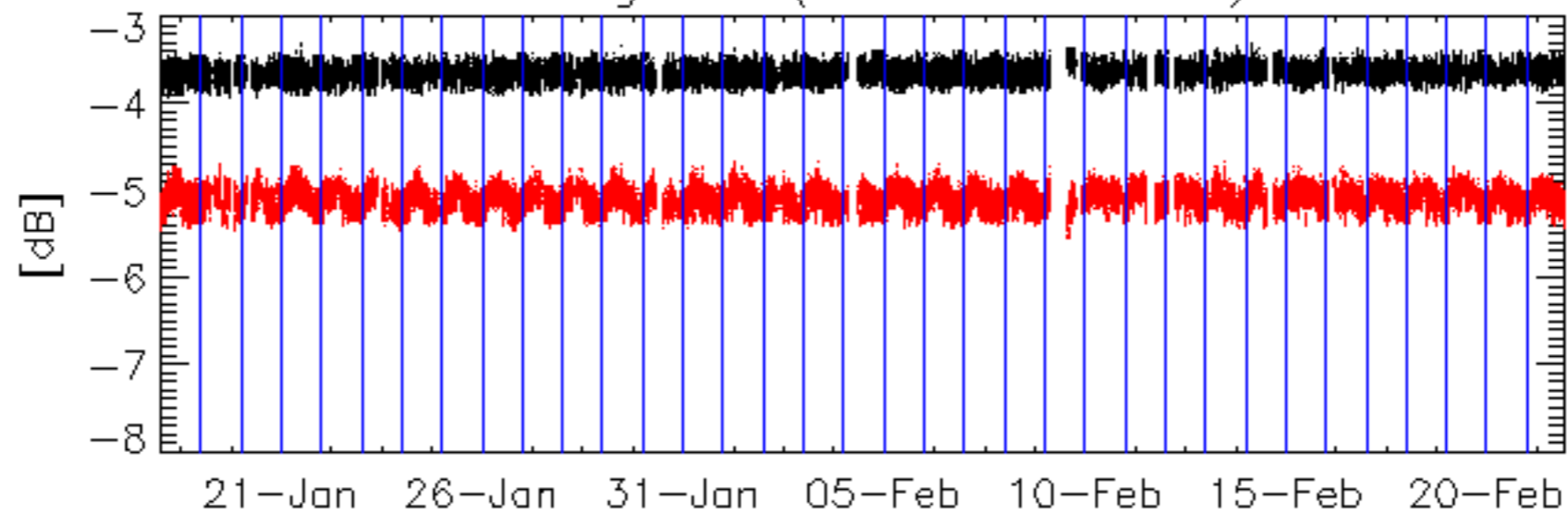
Preliminary report. The data is not yet controlled

### 6.1 - Doppler evolution versus ANX

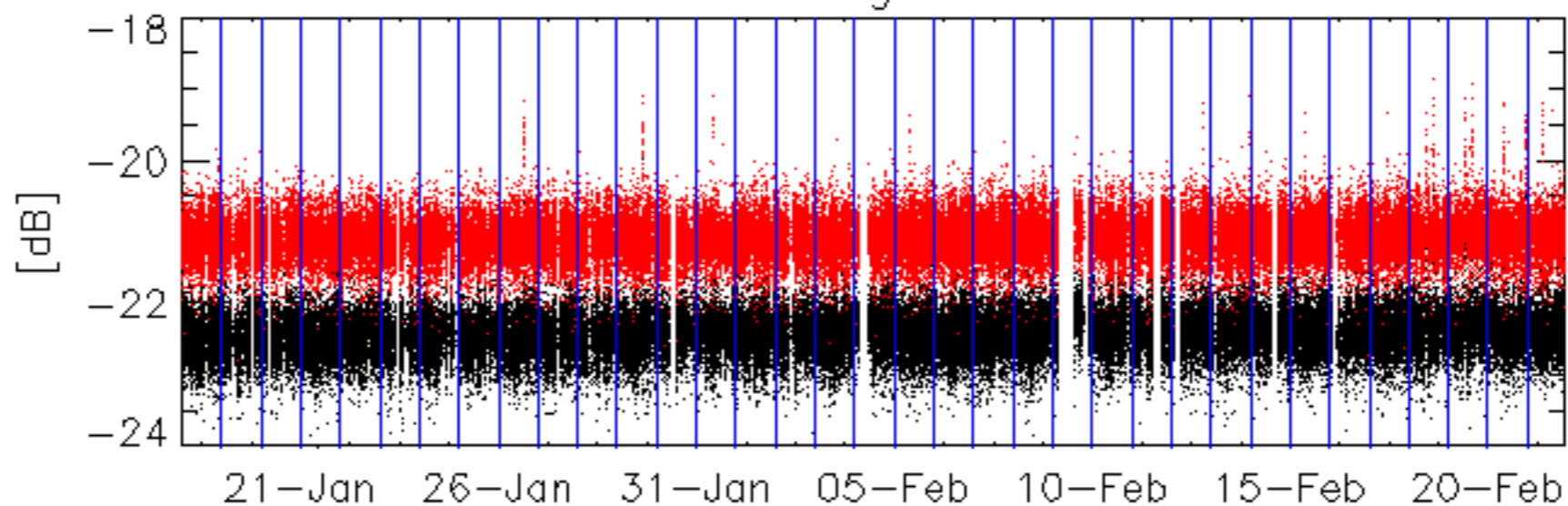
Evolution Doppler error versus ANX



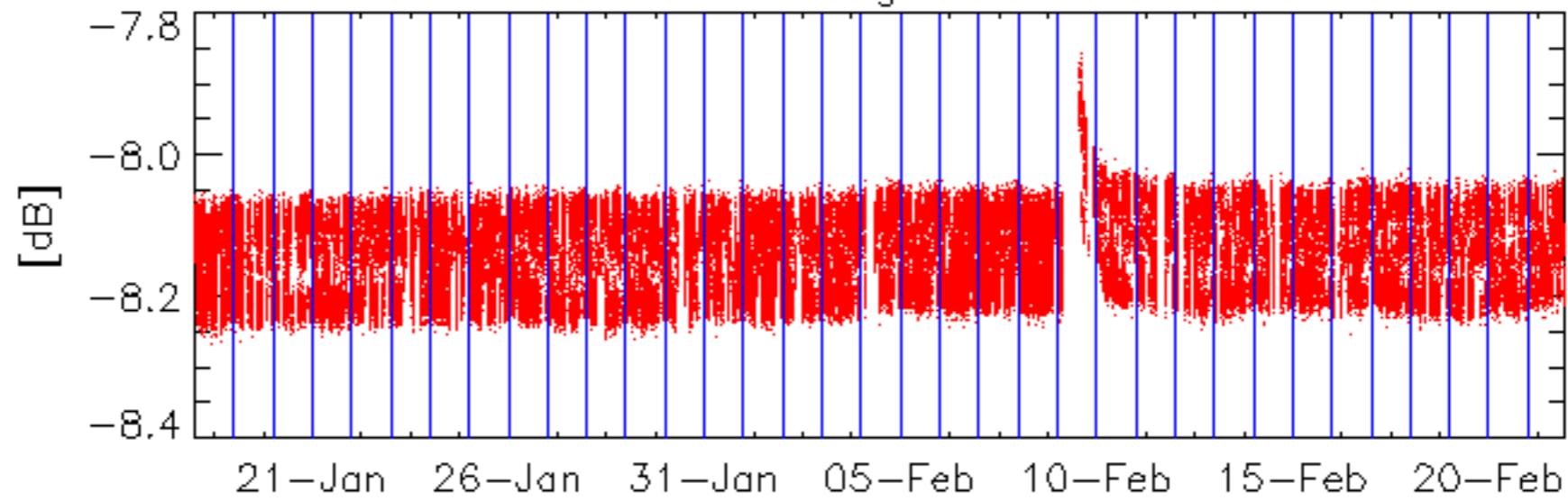
Average P1 (row 3 & row 24)



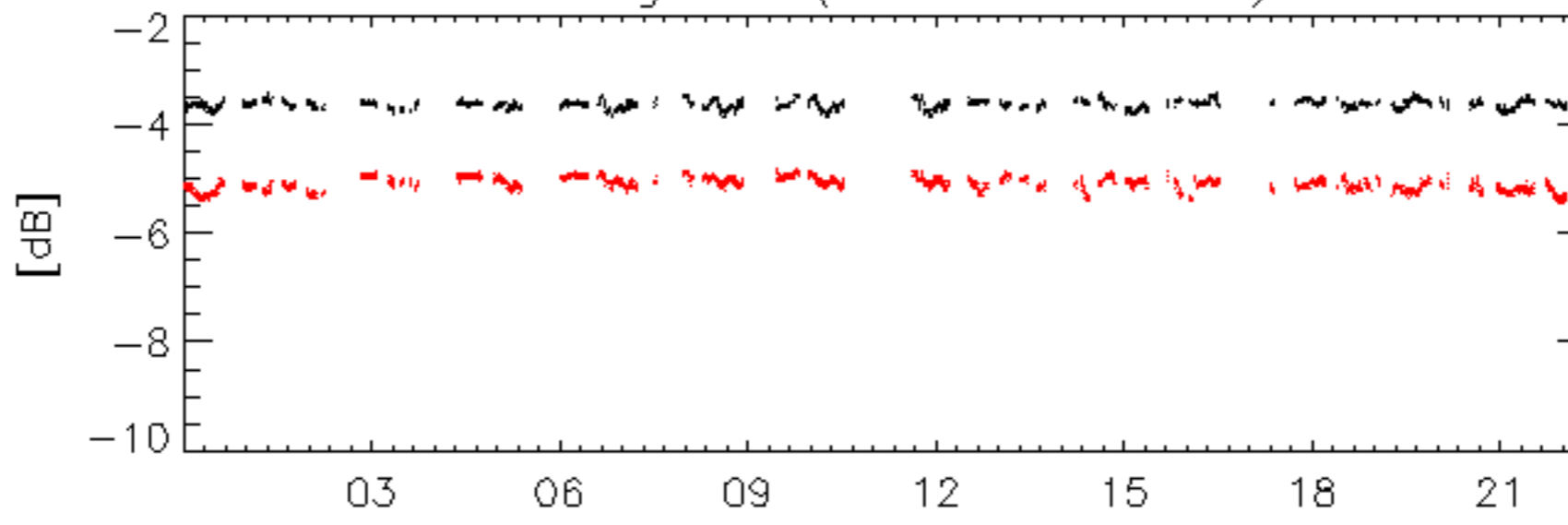
Average P2



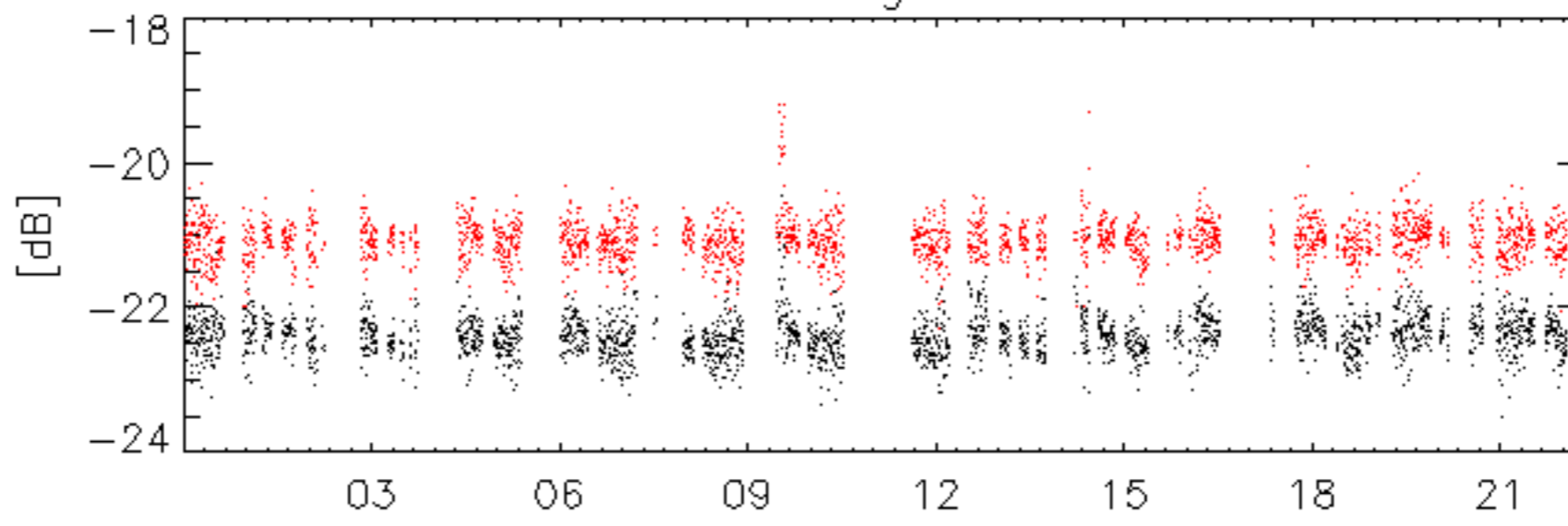
Average P3



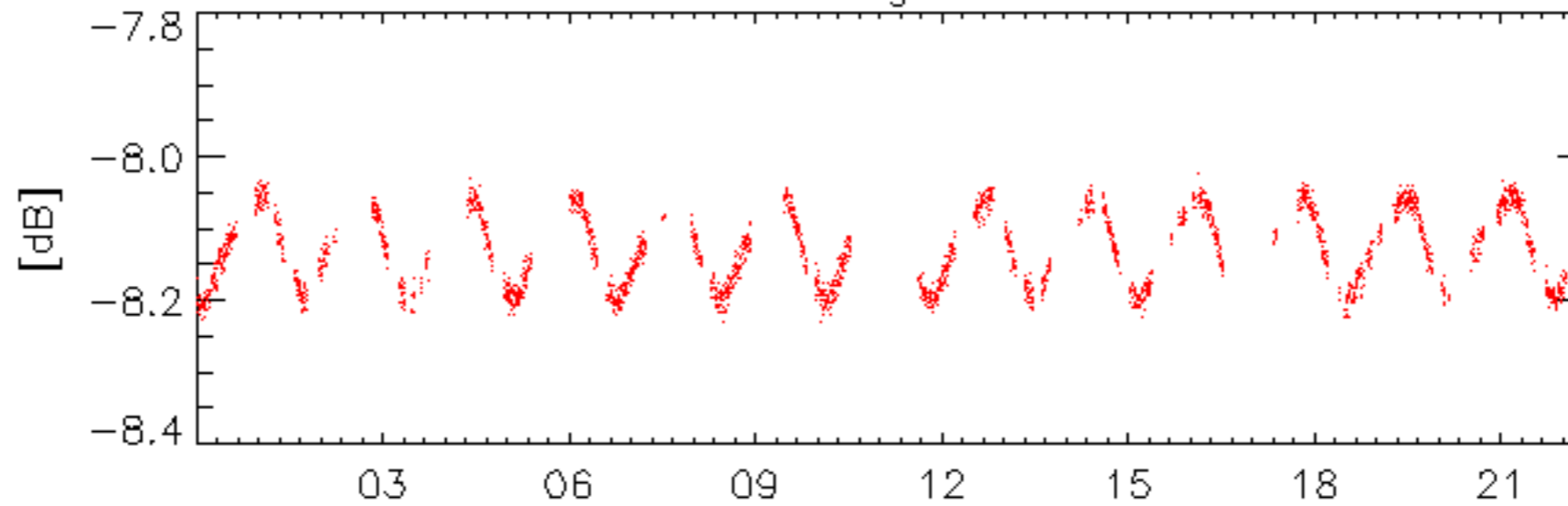
Average P1 (row 3 & row 24)



21-Feb  
Average P2

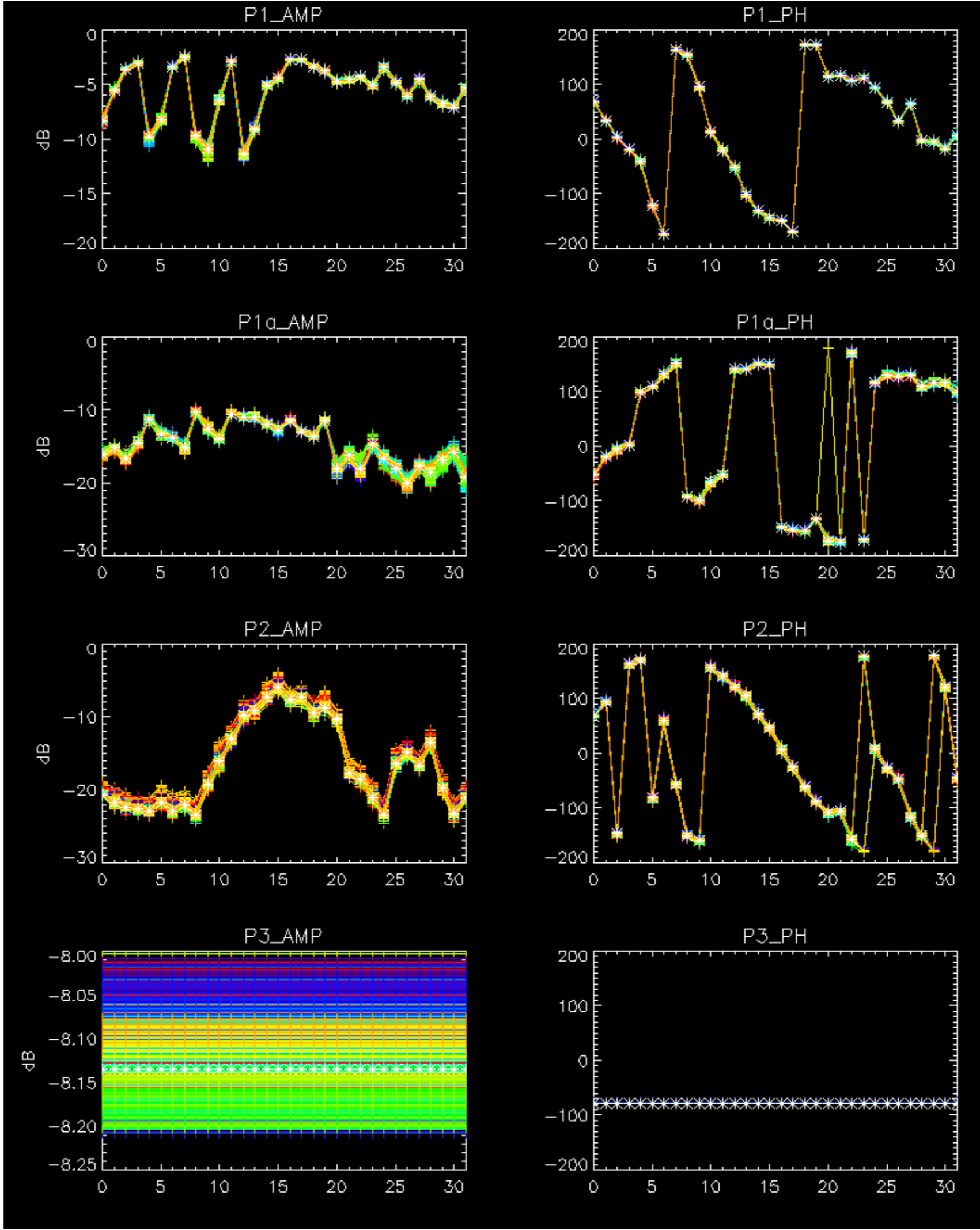


21-Feb  
Average P3



21-Feb

No anomalies observed.



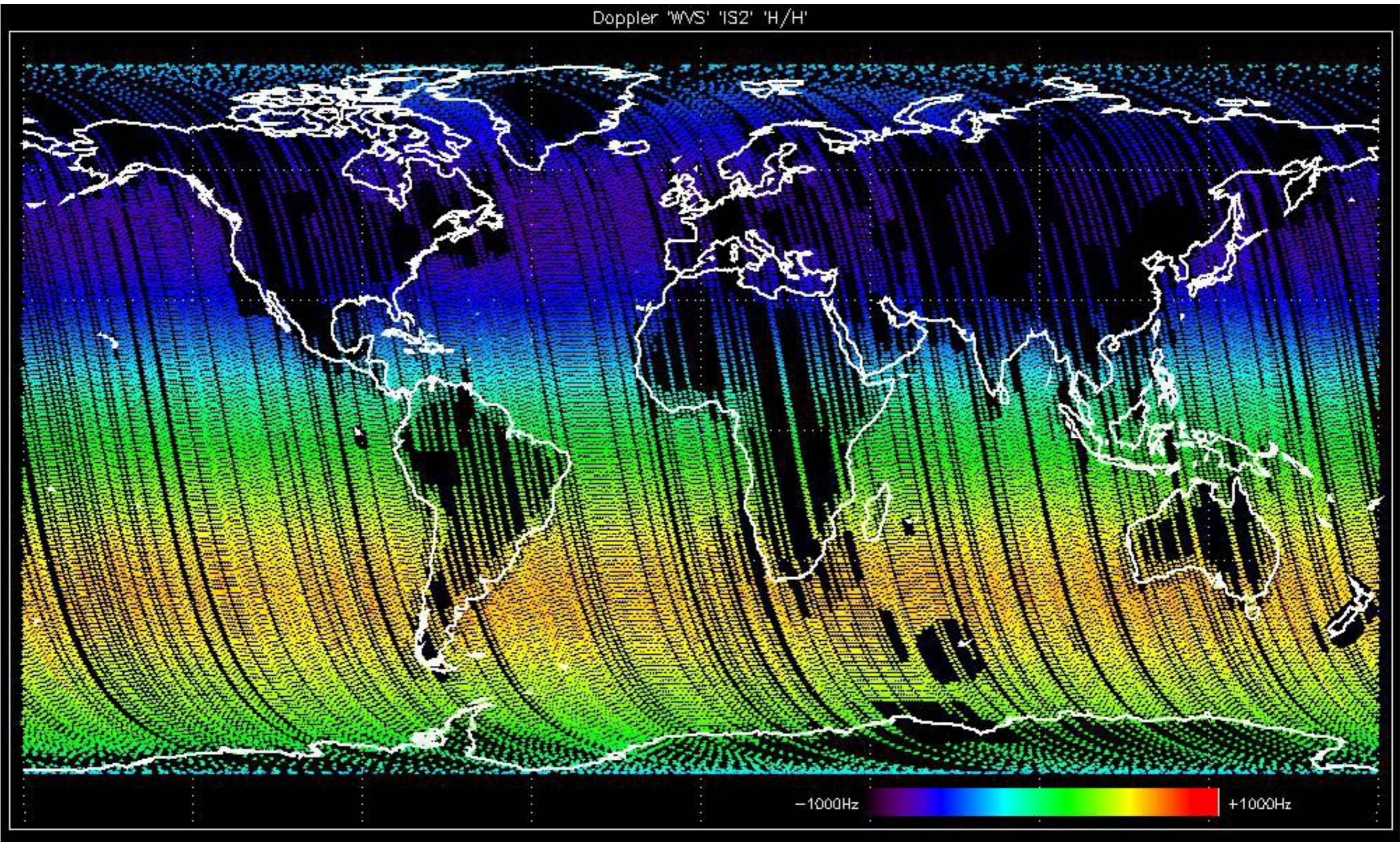


- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.



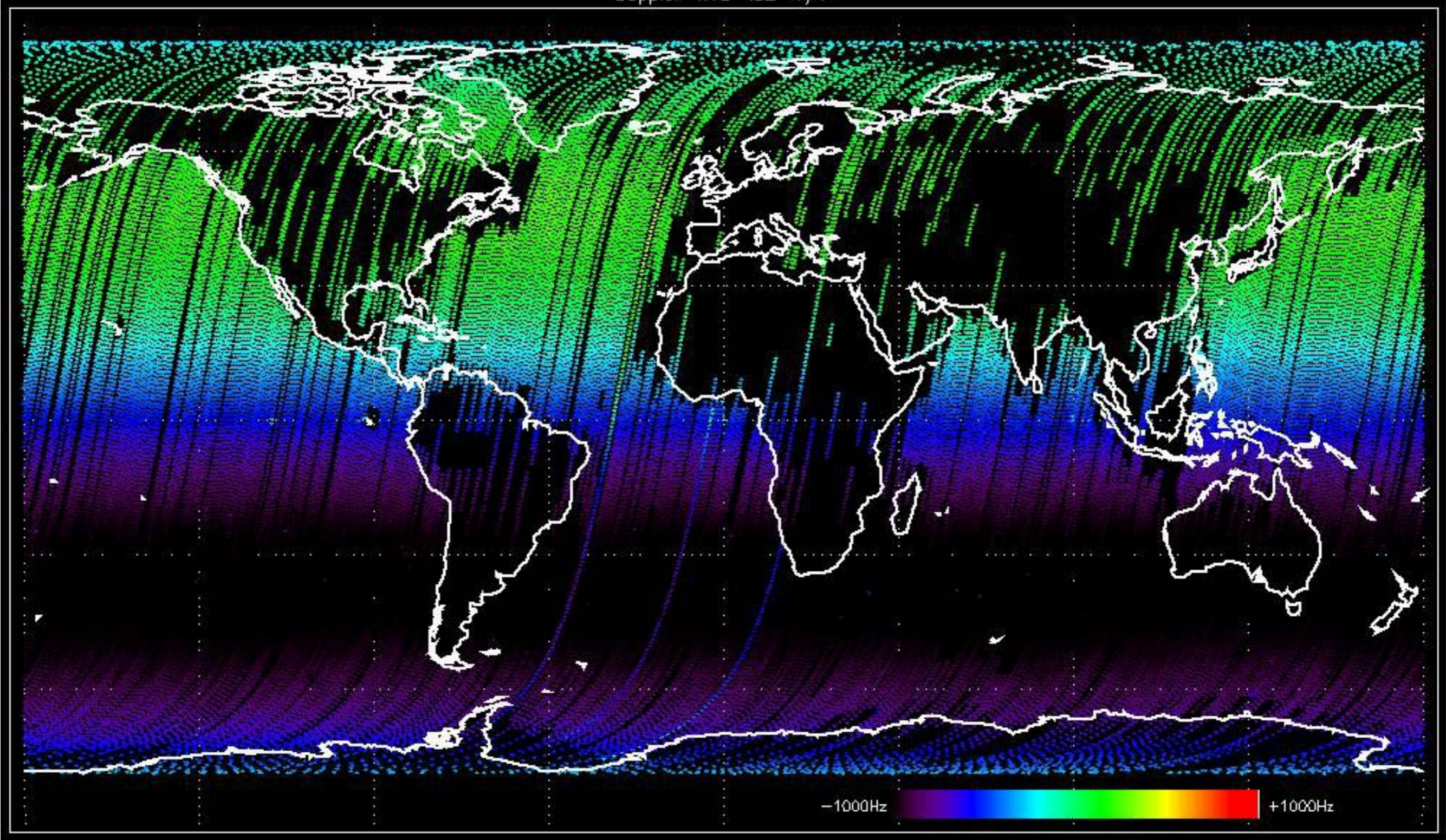


Doppler 'WVS' 'IS2' 'H/H'

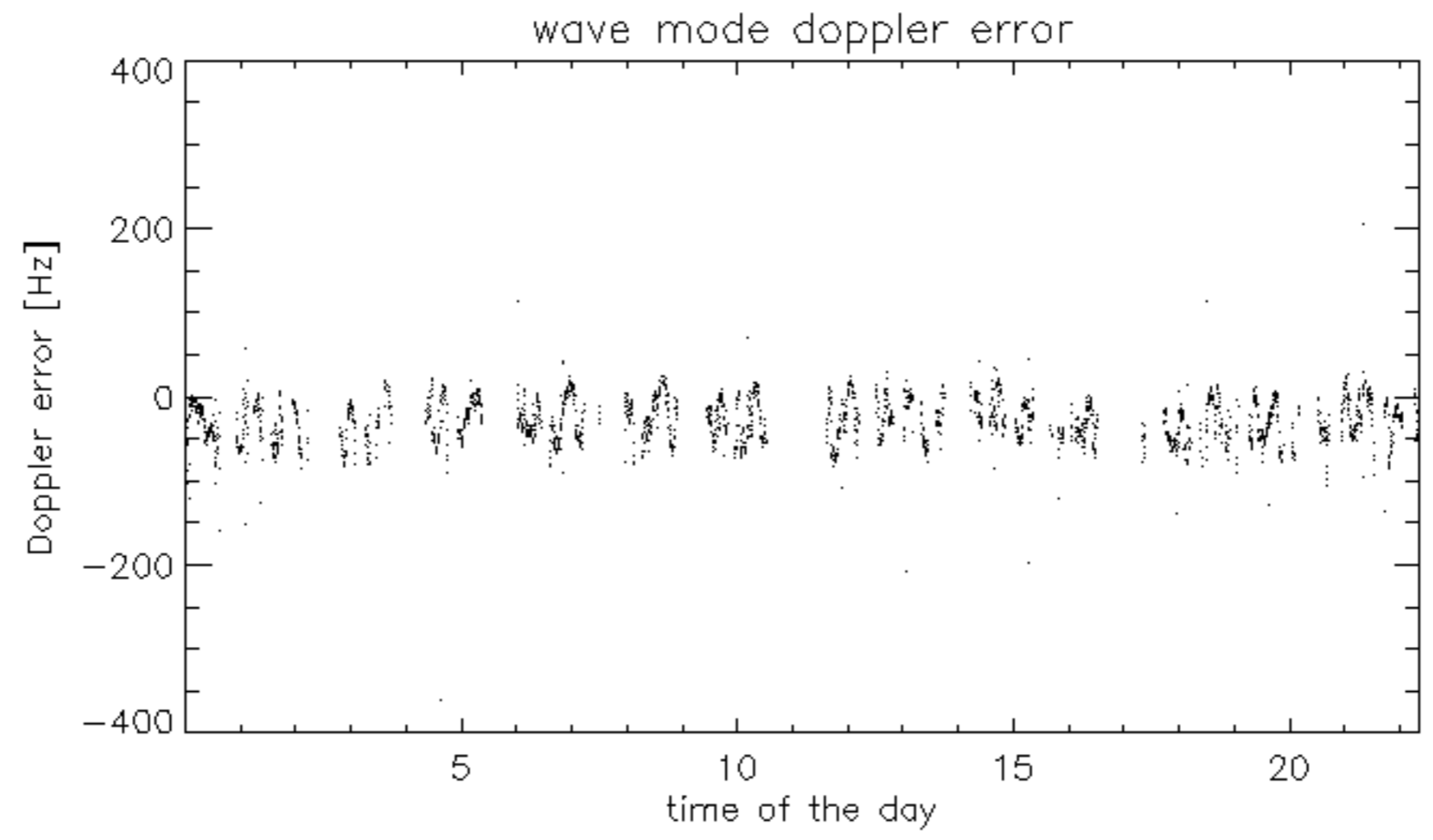
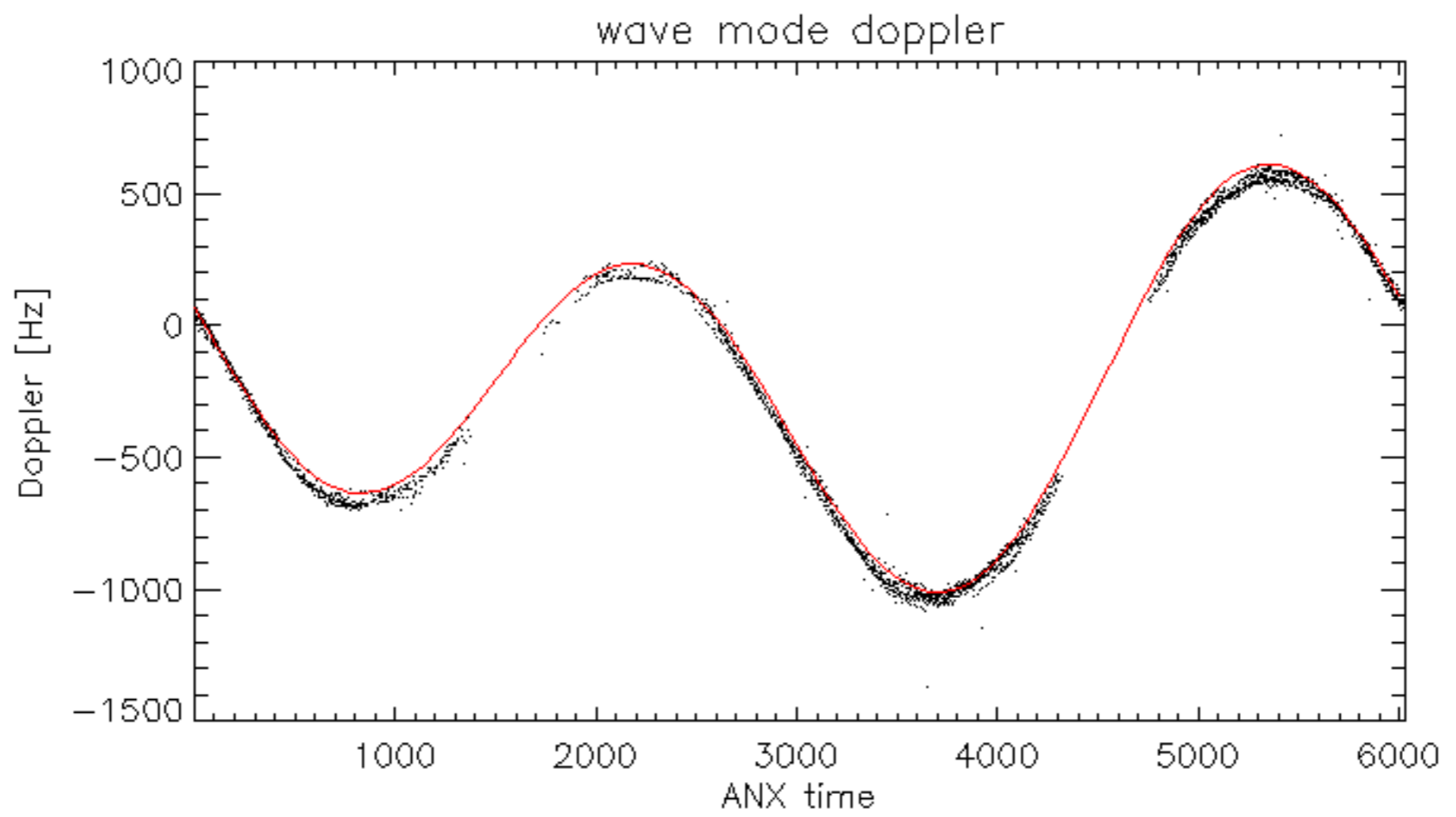




Doppler 'WVS' 'IS2' 'V/V'

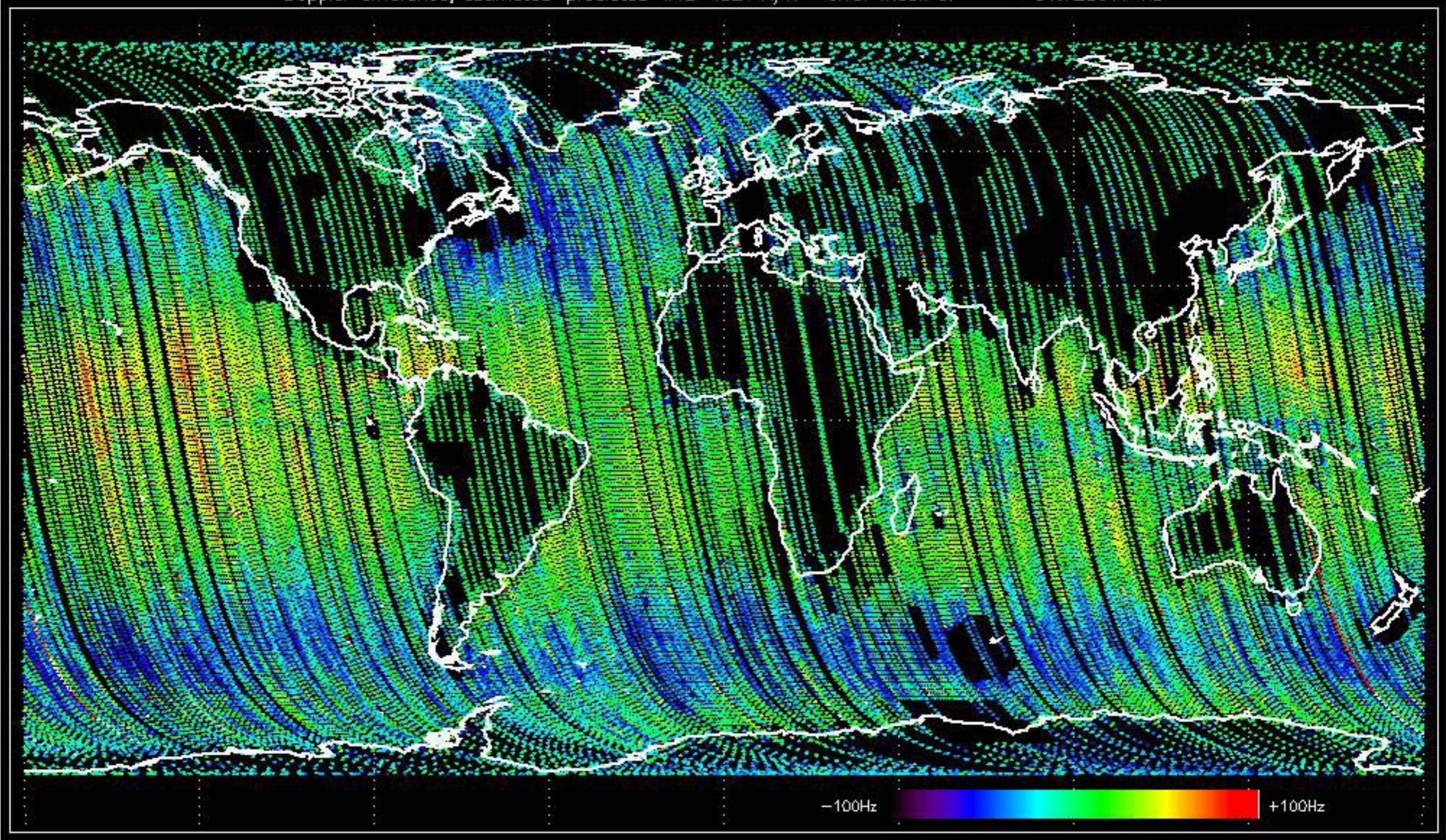






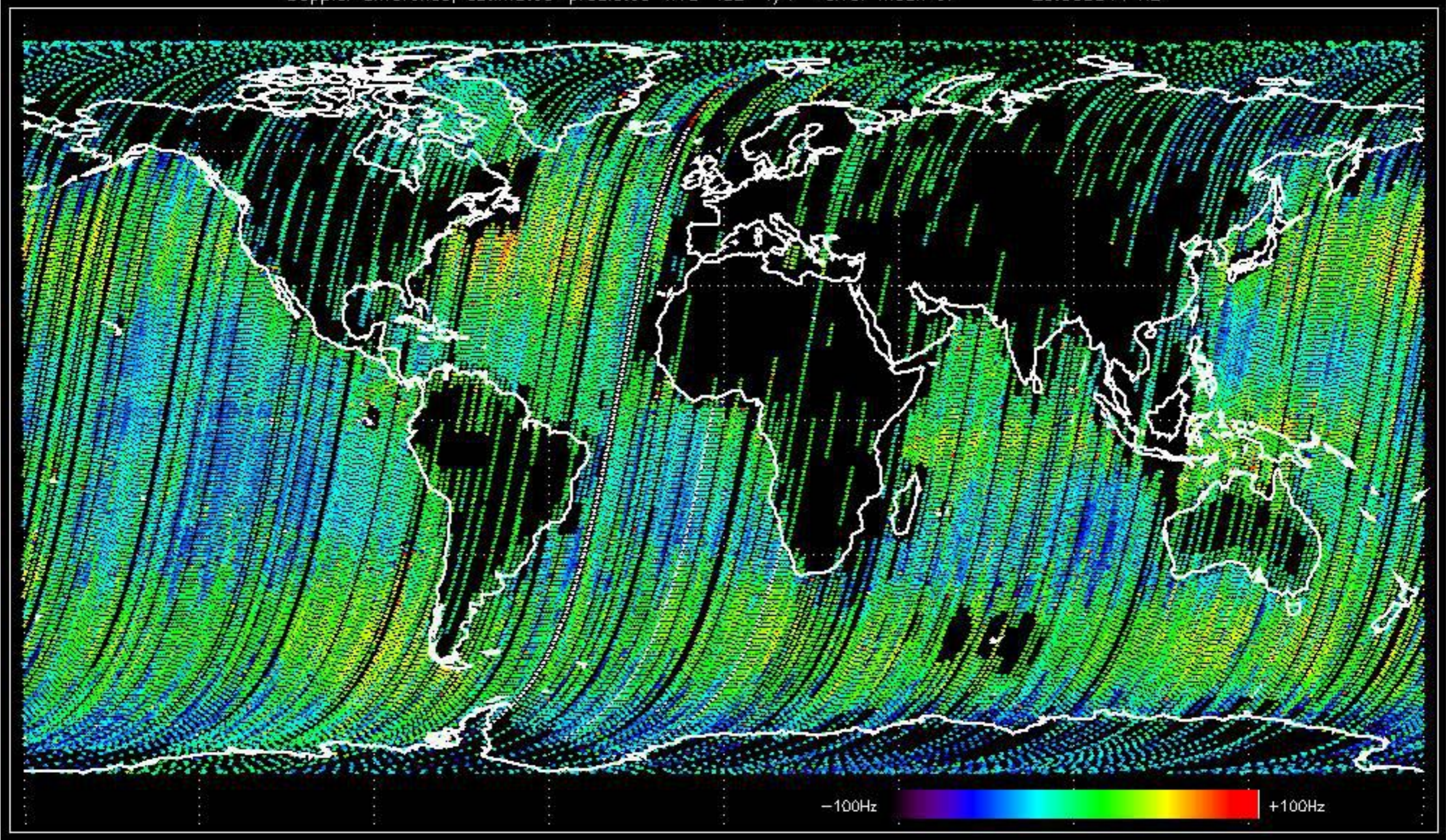


Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -31.728617 Hz





Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -29.909841 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.









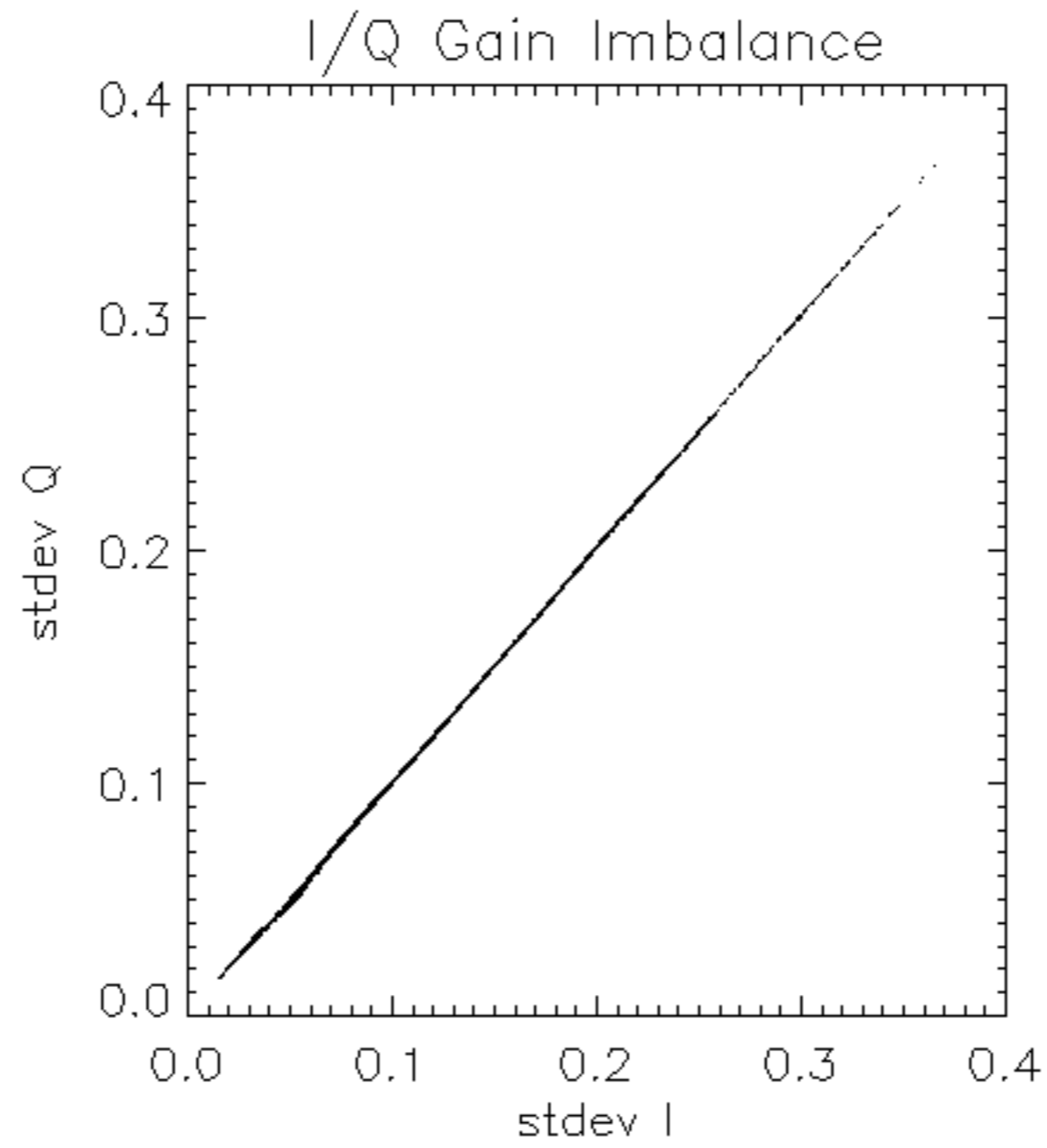


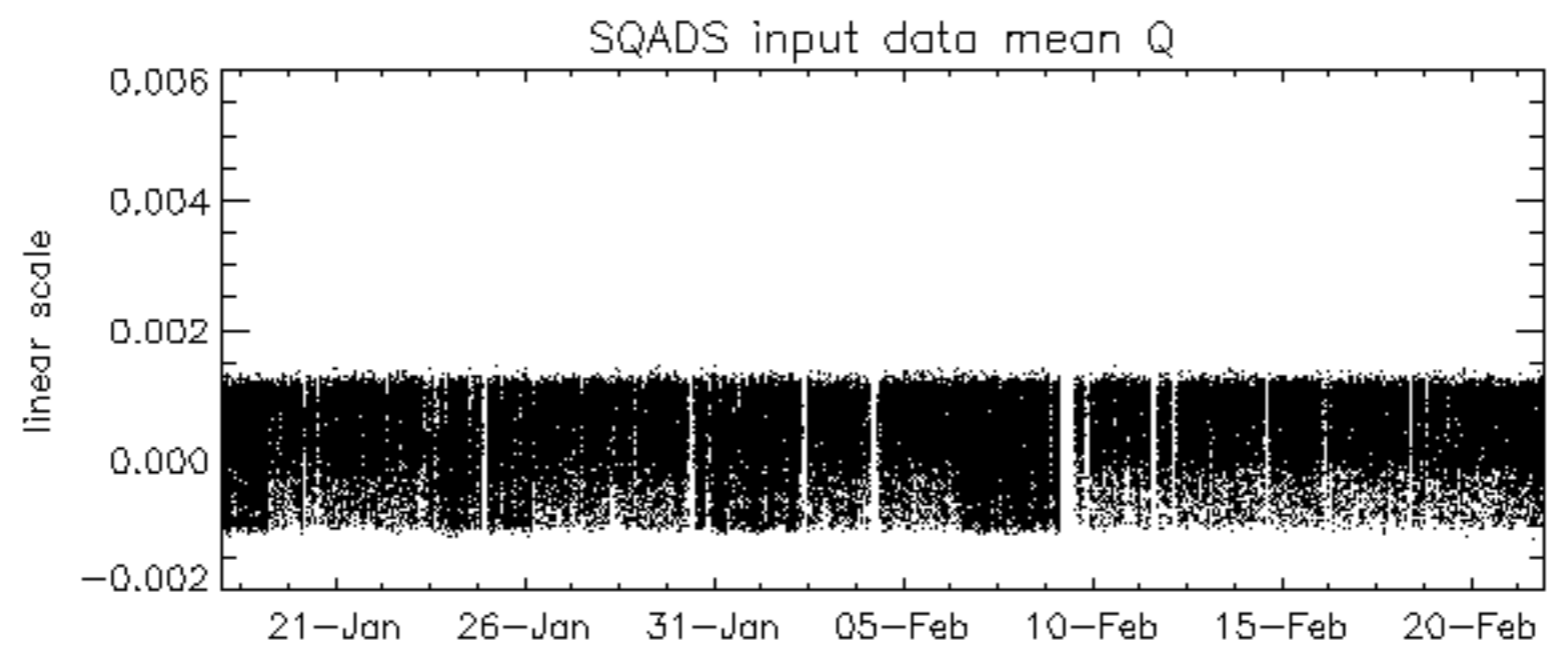
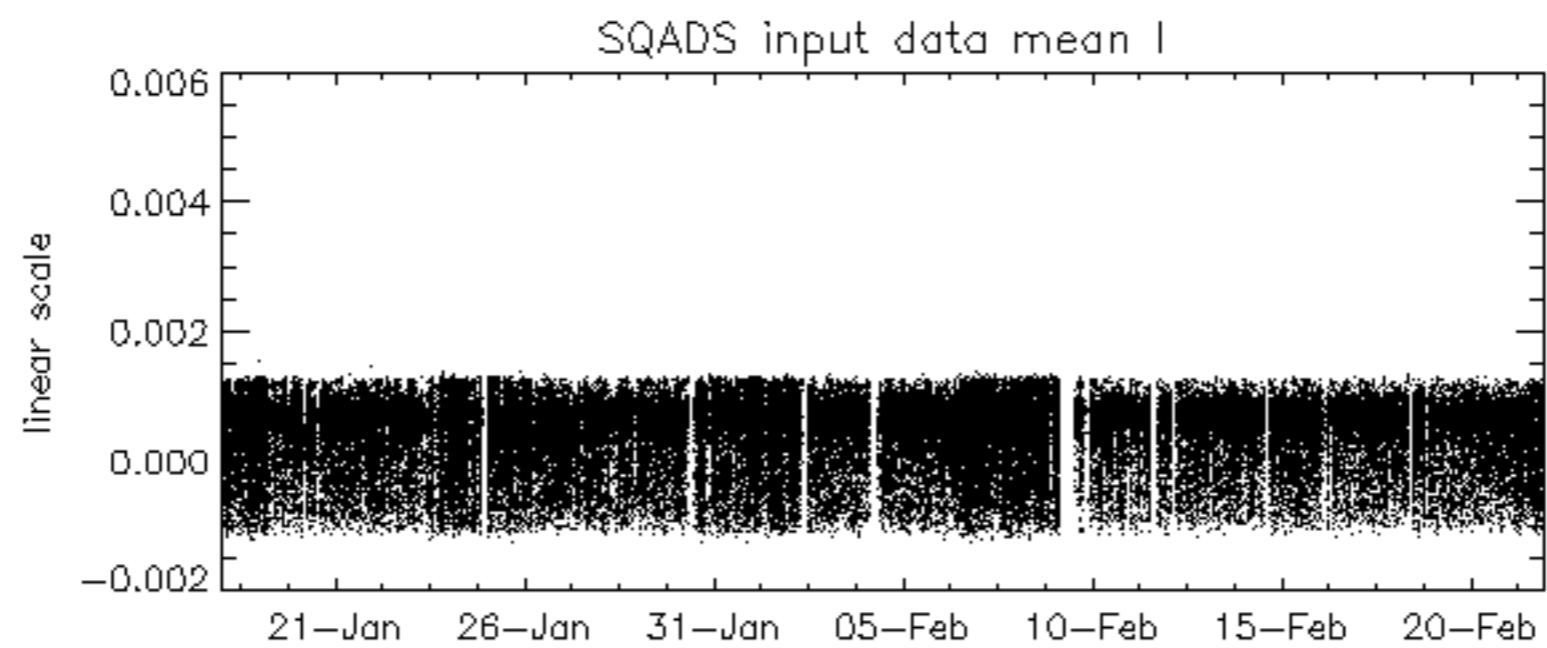
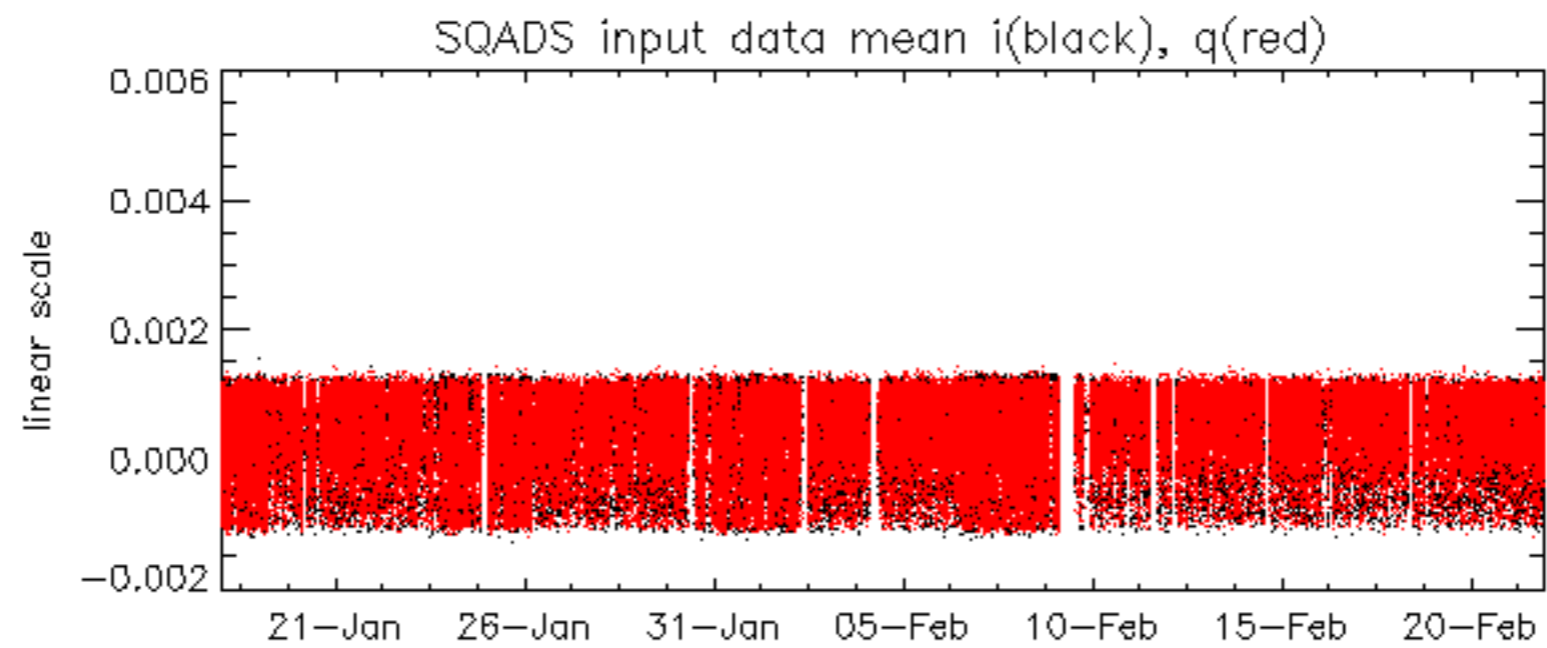


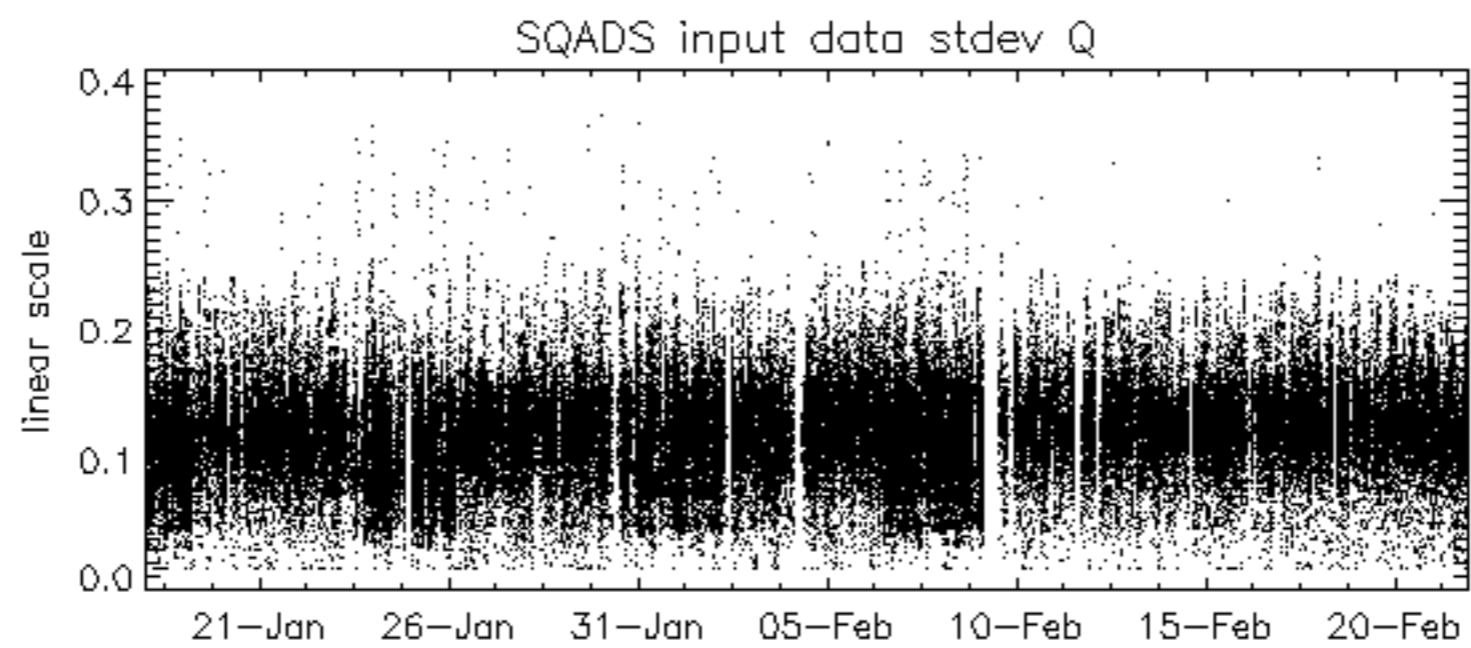
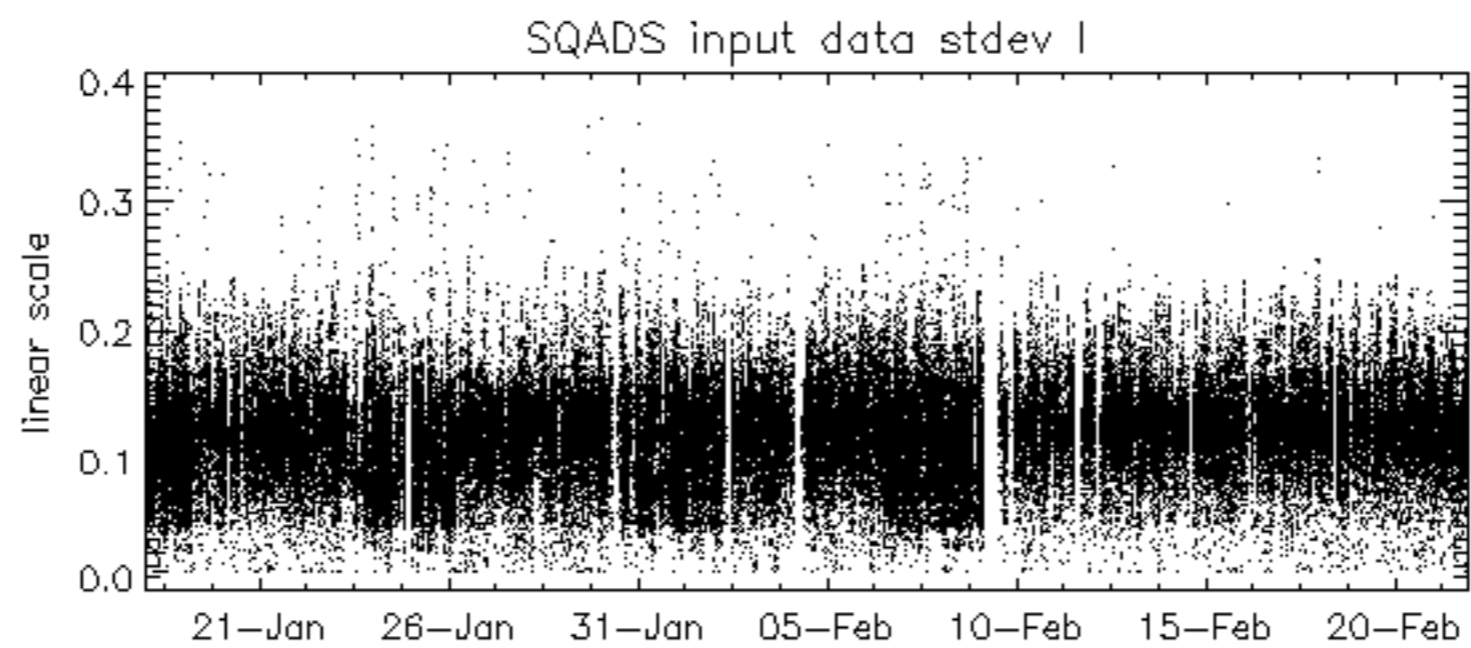
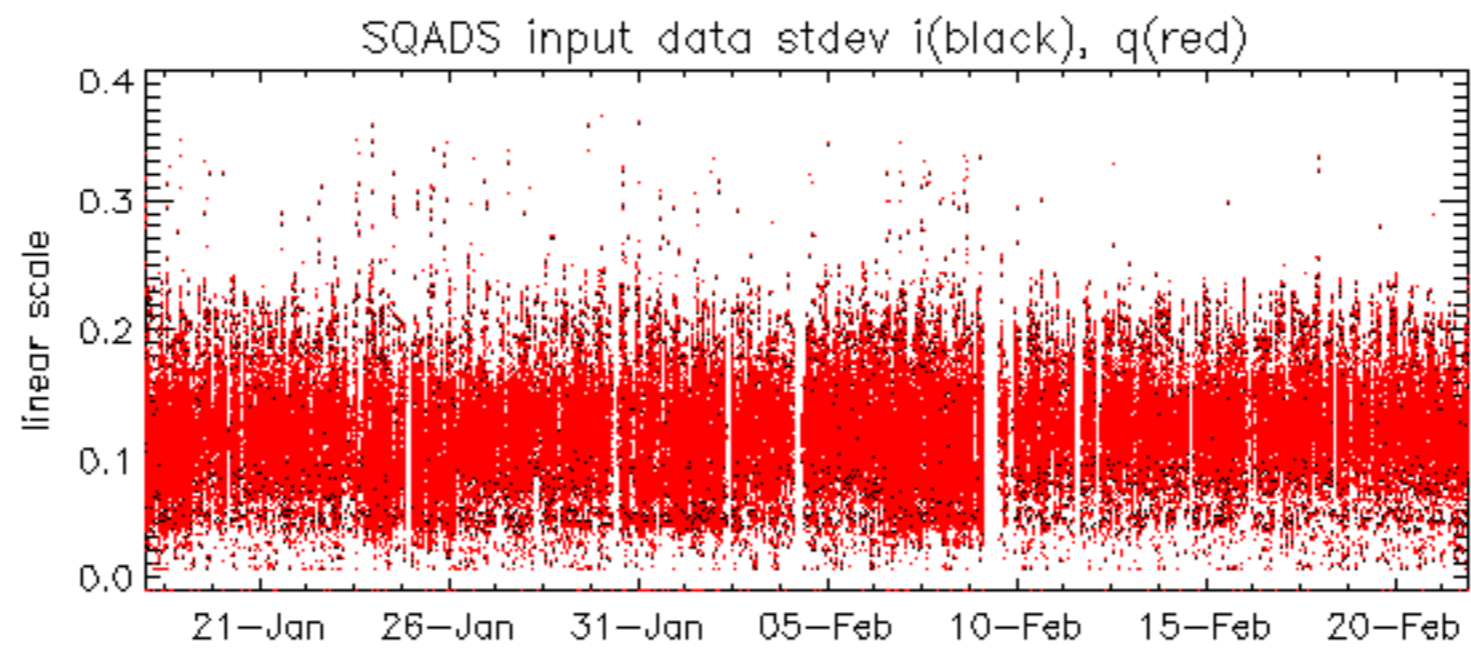








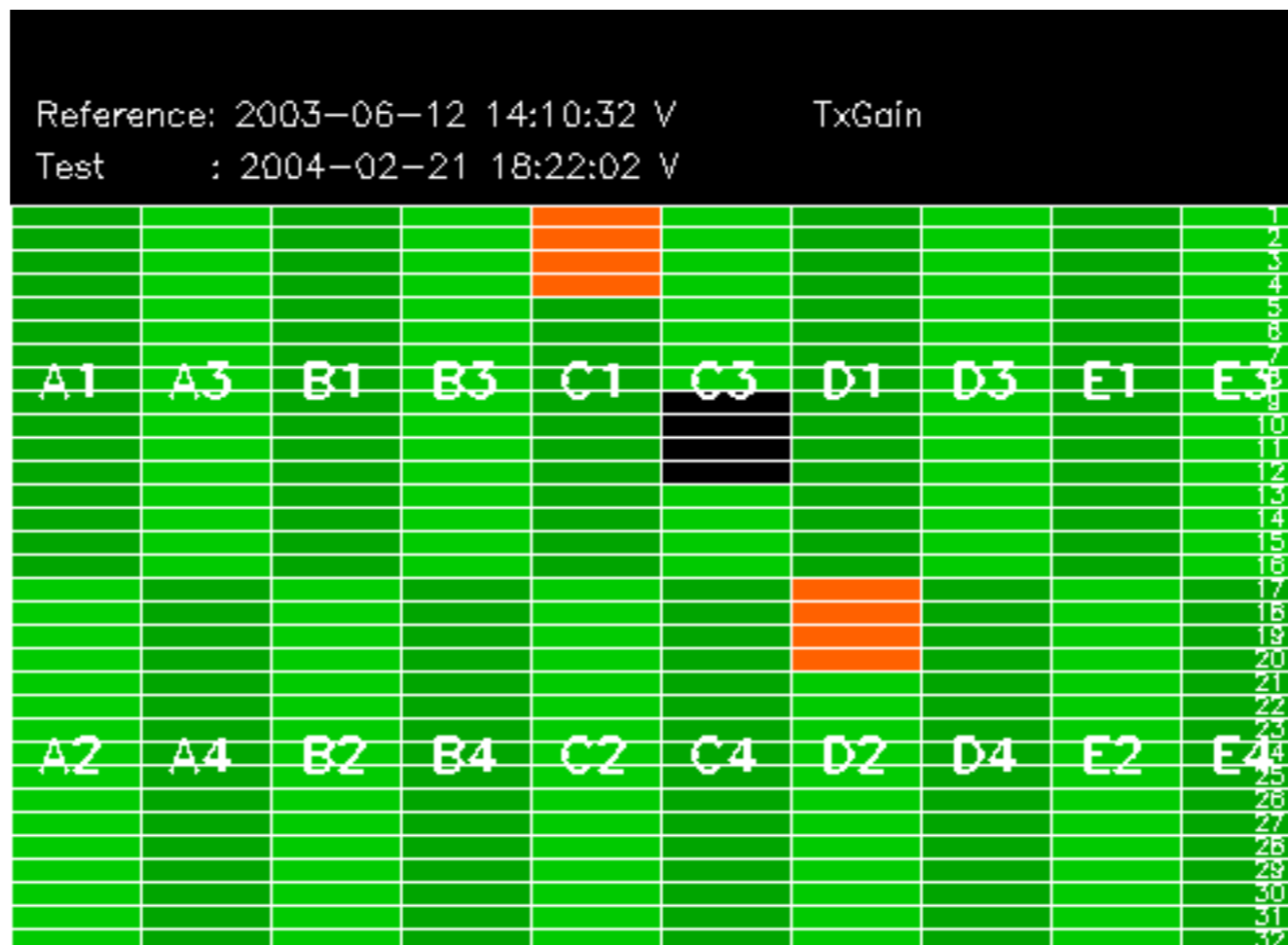






















No unavailabilities during the reported period.