

# REPORT OF 031216

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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 for the reported period.

### 2.2 - Browse Visual Inspection

No anomalies observed on available browse products.

### 2.3 - Data Analysis

No anomalies observed.

### 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 MS product for 15-Dec-2003. The results below are from 14-Dec-2003 MS data.

Polarisation	Start Time
V	20031214 193102
H	20031214 192942

#### 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	-3.72749	-22.5701	-8.16778
	stdev	0.00770106	0.0852215	0.00410547
24	mean	-5.06699	-21.1940	-8.16778

stdev	0.0111424	0.0697436	0.00410547
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## 4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.77006	-22.5589	-8.14698
	stdev	0.0783754	0.0714541	0.00522898
24	mean	-5.10004	-21.2267	-8.14698
	stdev	0.0138291	0.0645400	0.00522898



## 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	0.000339324
	stdev	1.11556e-05
MEAN Q	mean	0.000184742
	stdev	1.11615e-05



### 5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115031
	stdev	0.00154547
STDEV Q	mean	0.115281

stdev 0.00156130



### 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)
Ascending
Descending

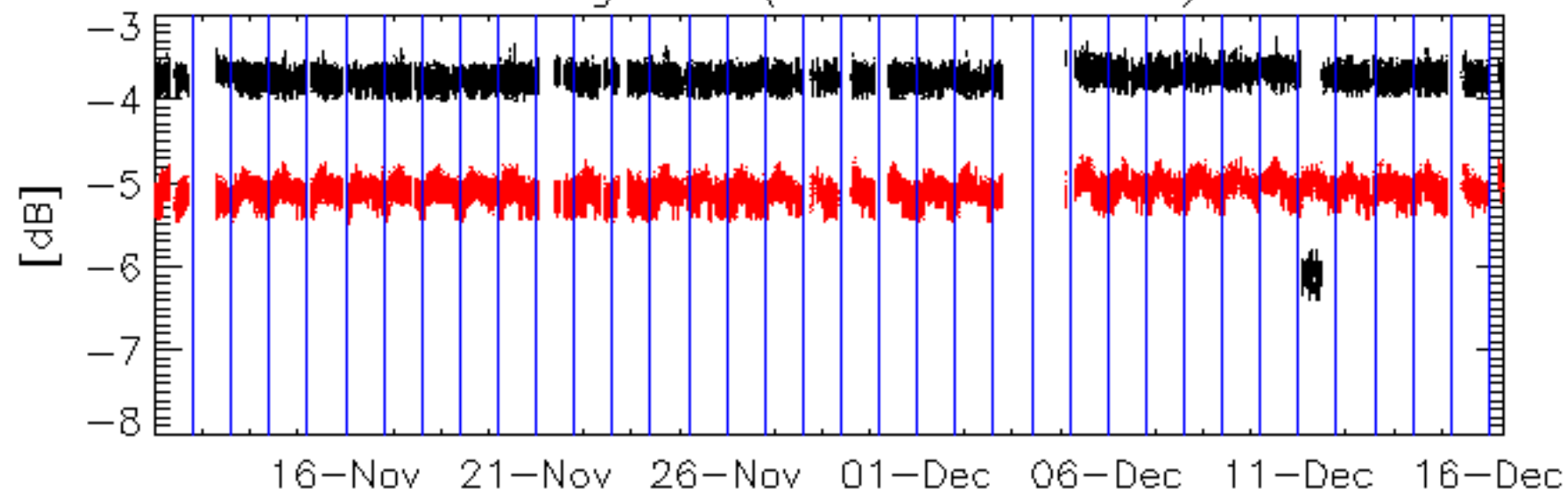
### 6.2 - Absolute Doppler

Evolution of Absolute Doppler
Ascending
Descending

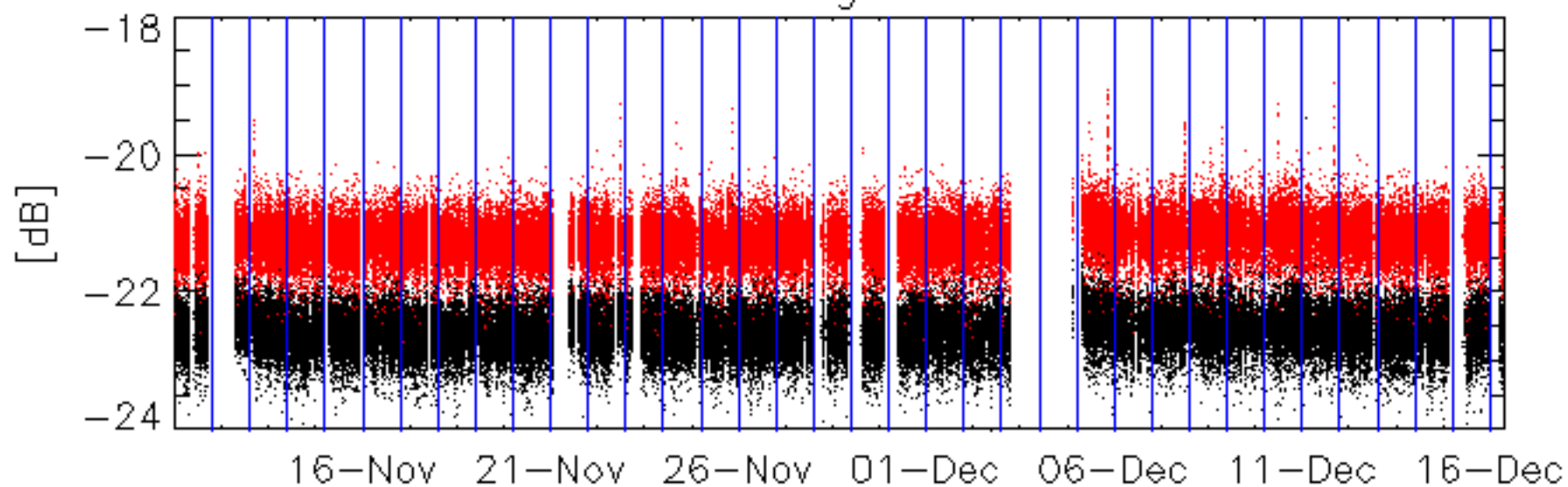
### 6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX

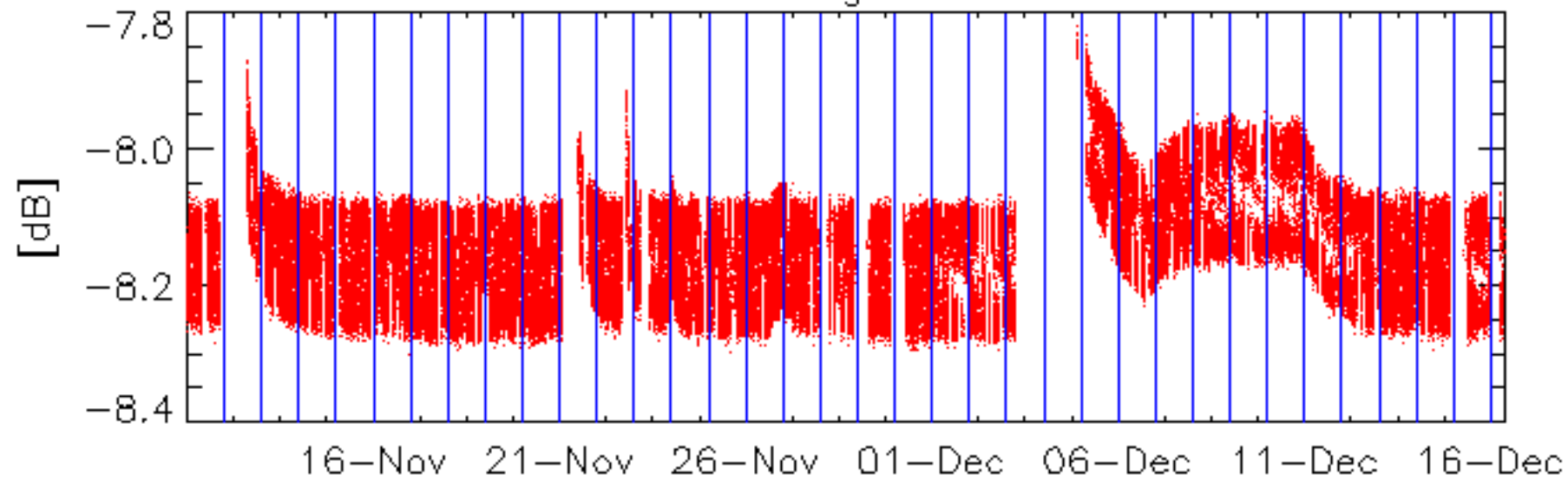

Average P1 (row 3 & row 24)



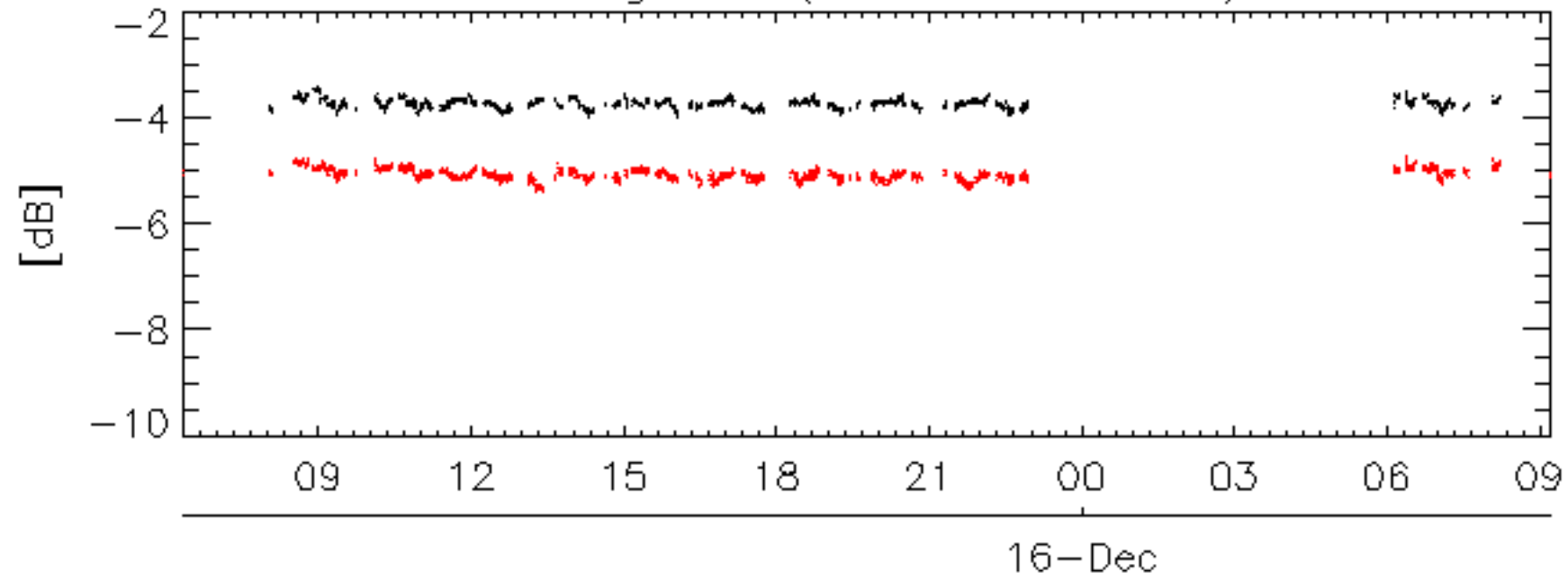
Average P2



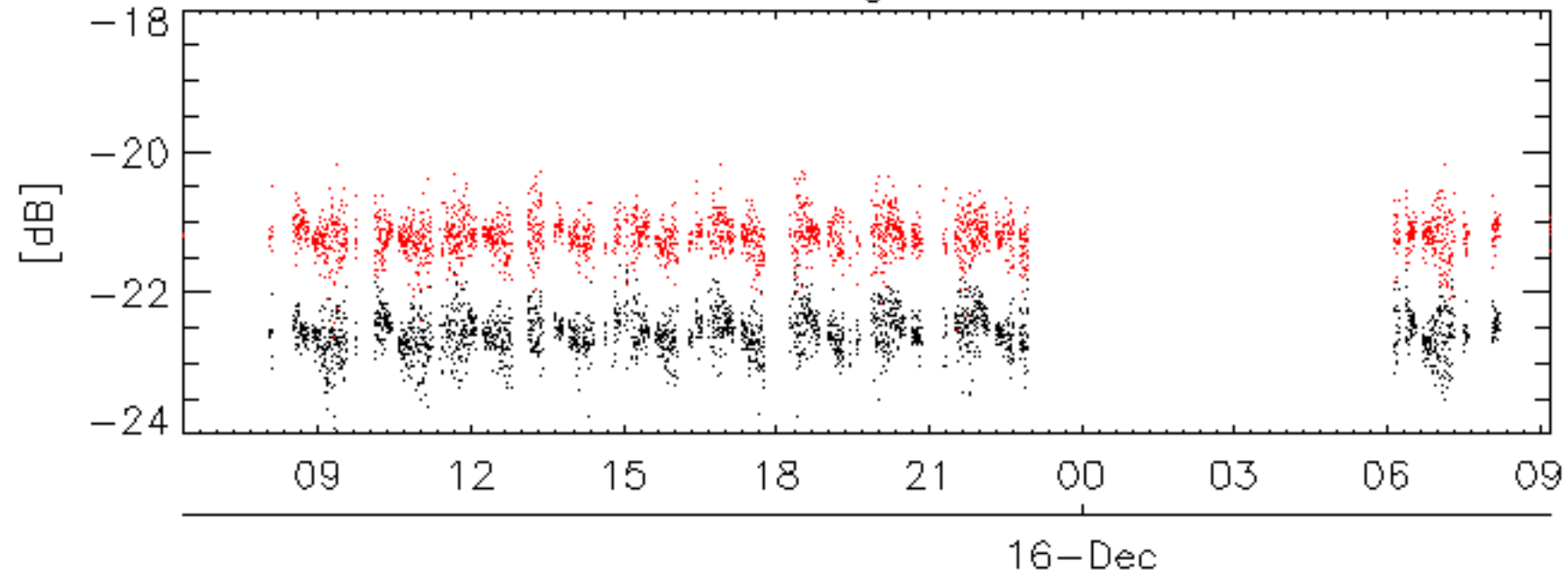
Average P3



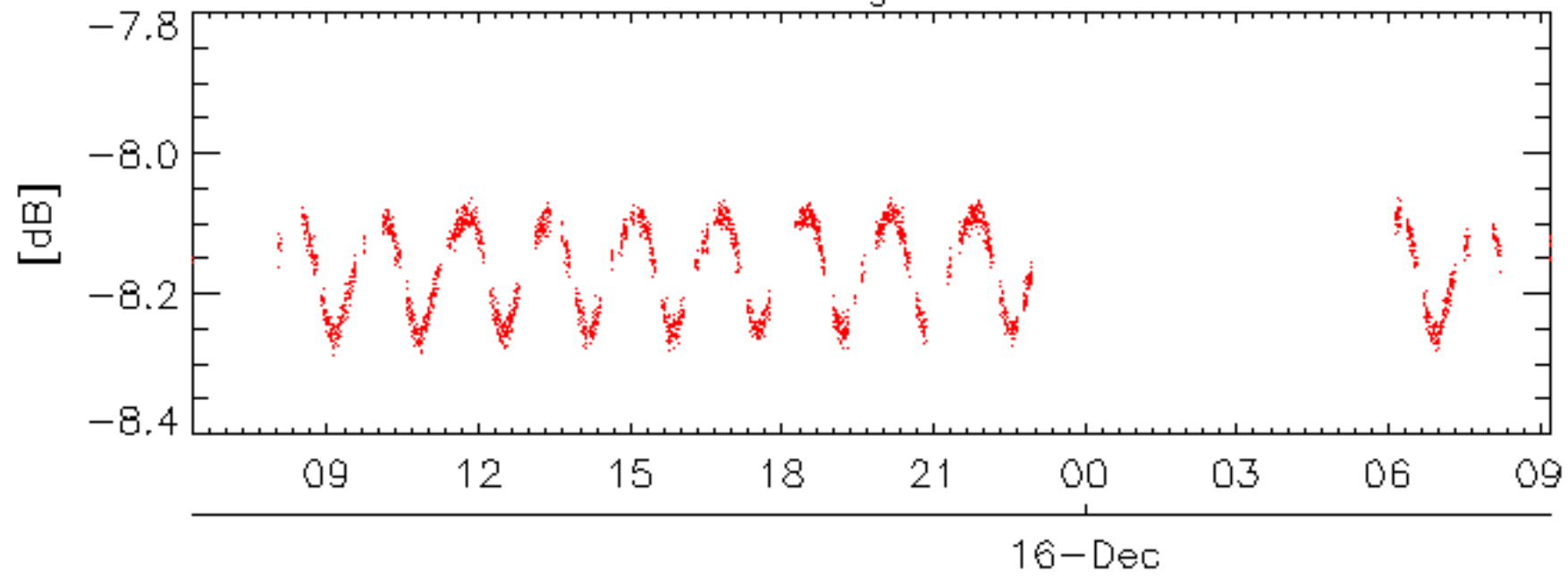
Average P1 (row 3 & row 24)



Average P2



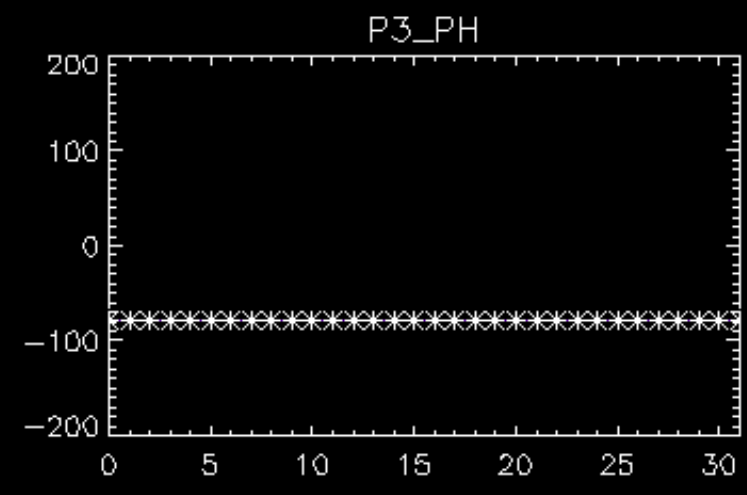
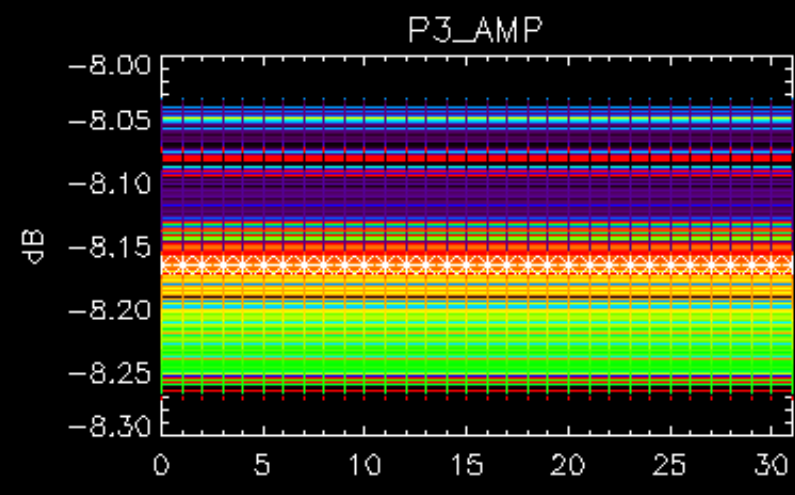
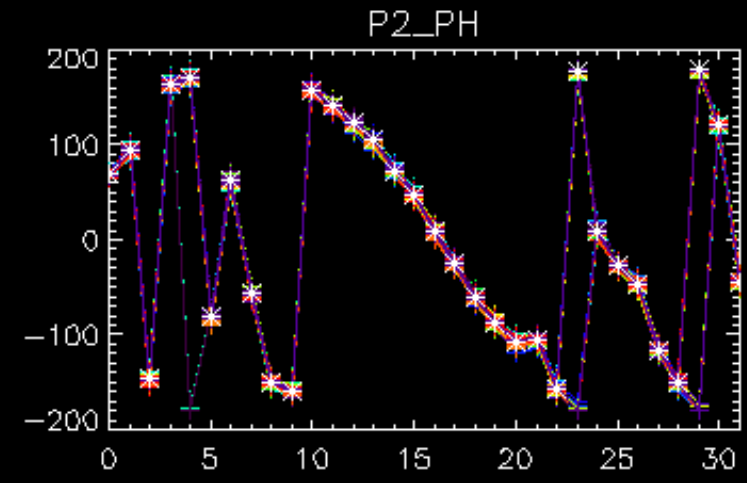
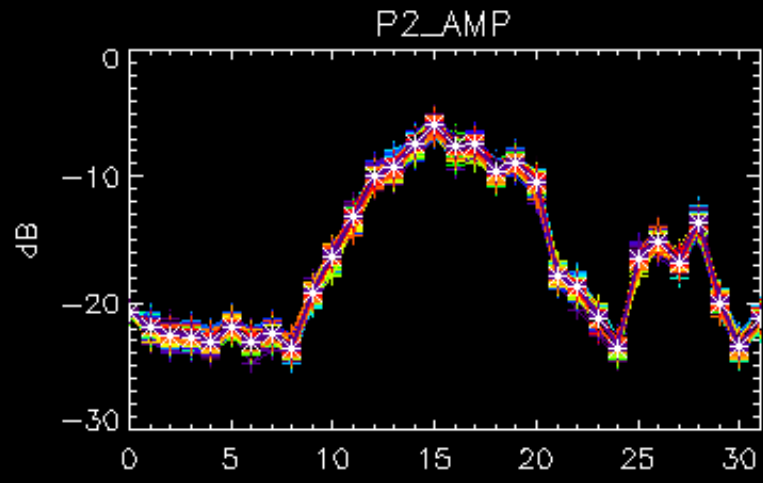
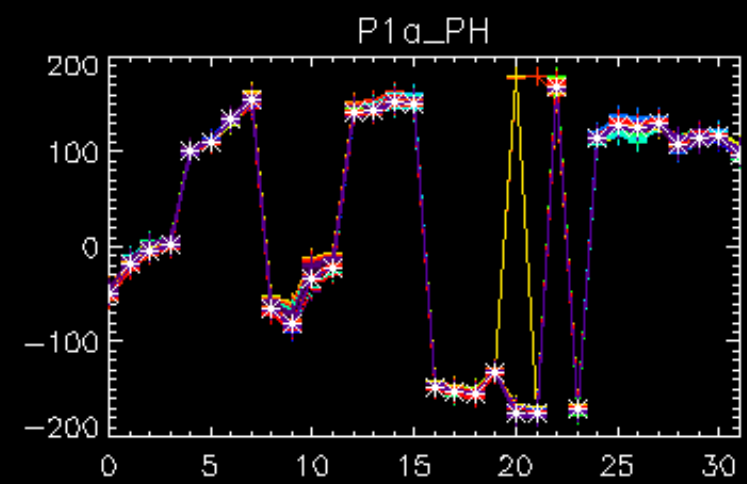
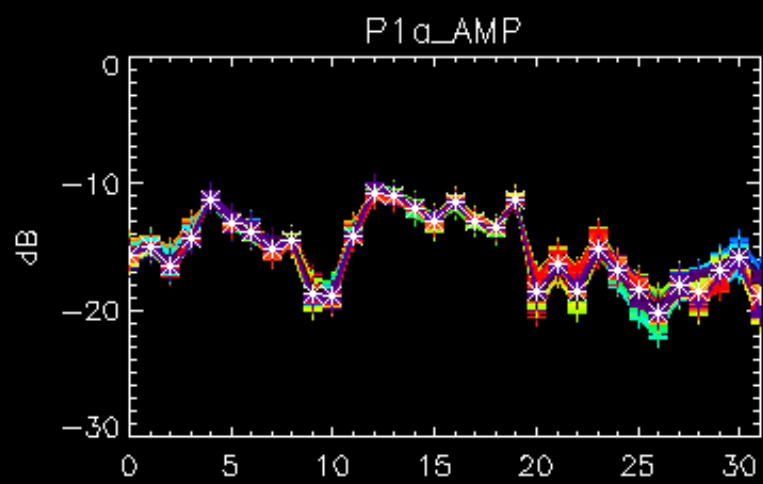
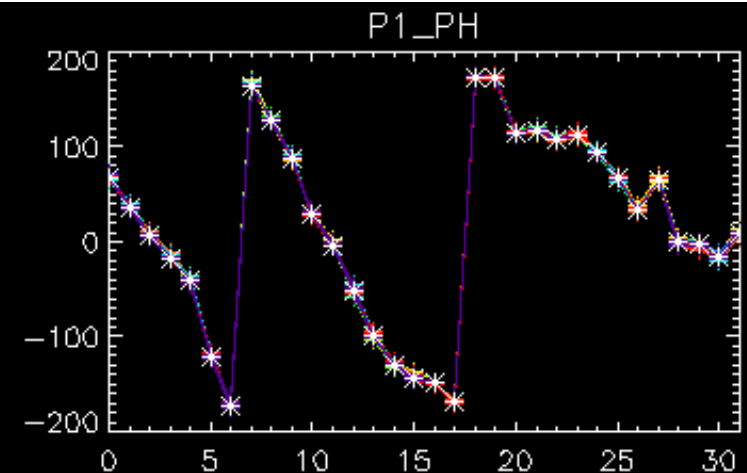
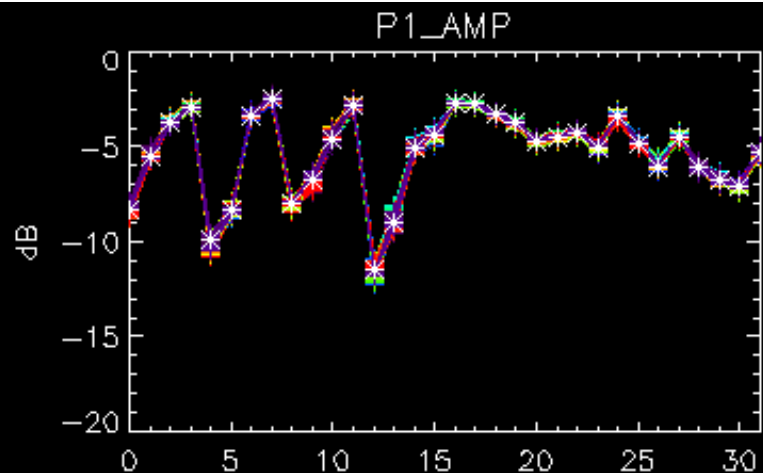
Average P3



No anomalies observed on available browse products.

No anomalies observed.



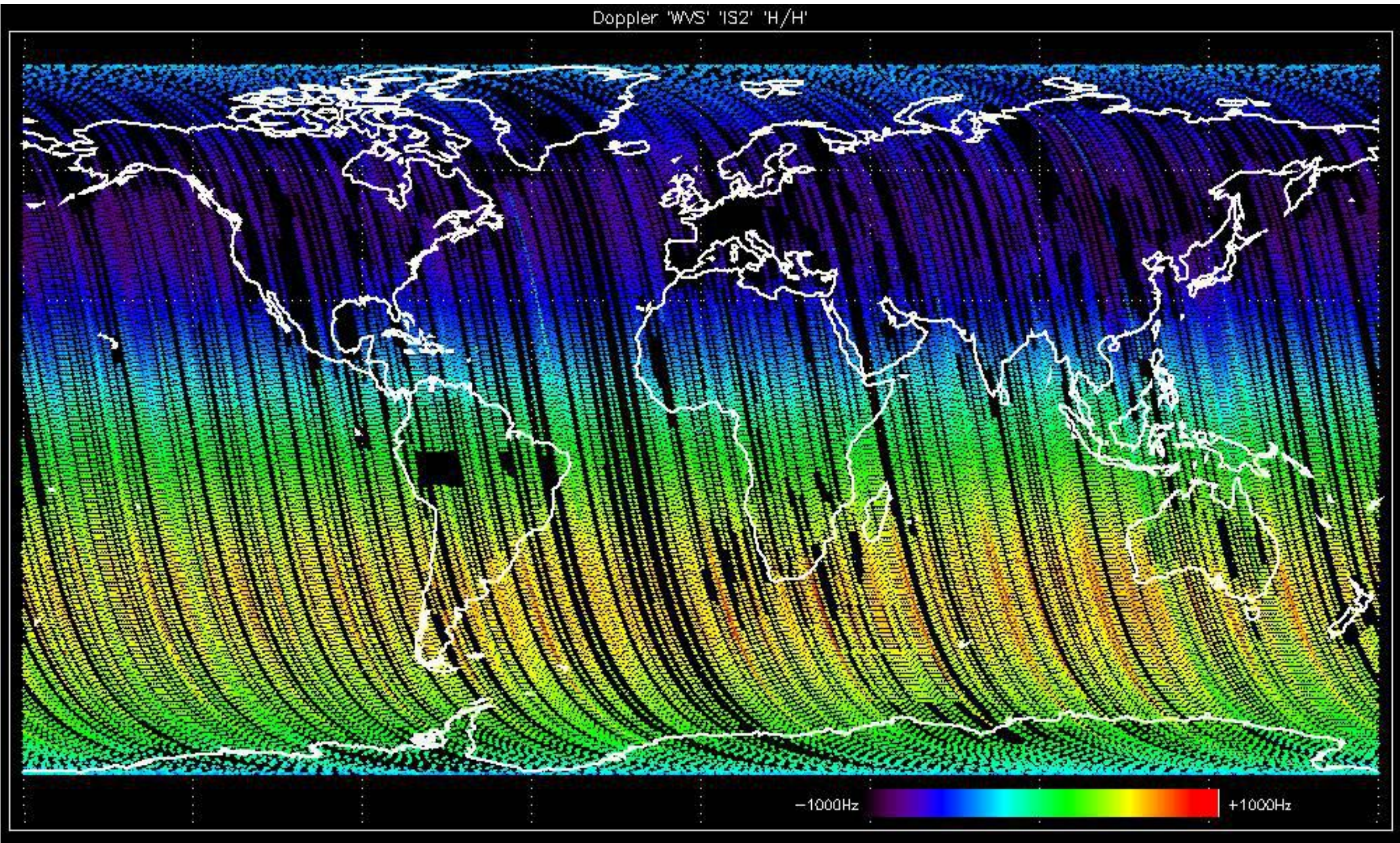


No anomalies observed.



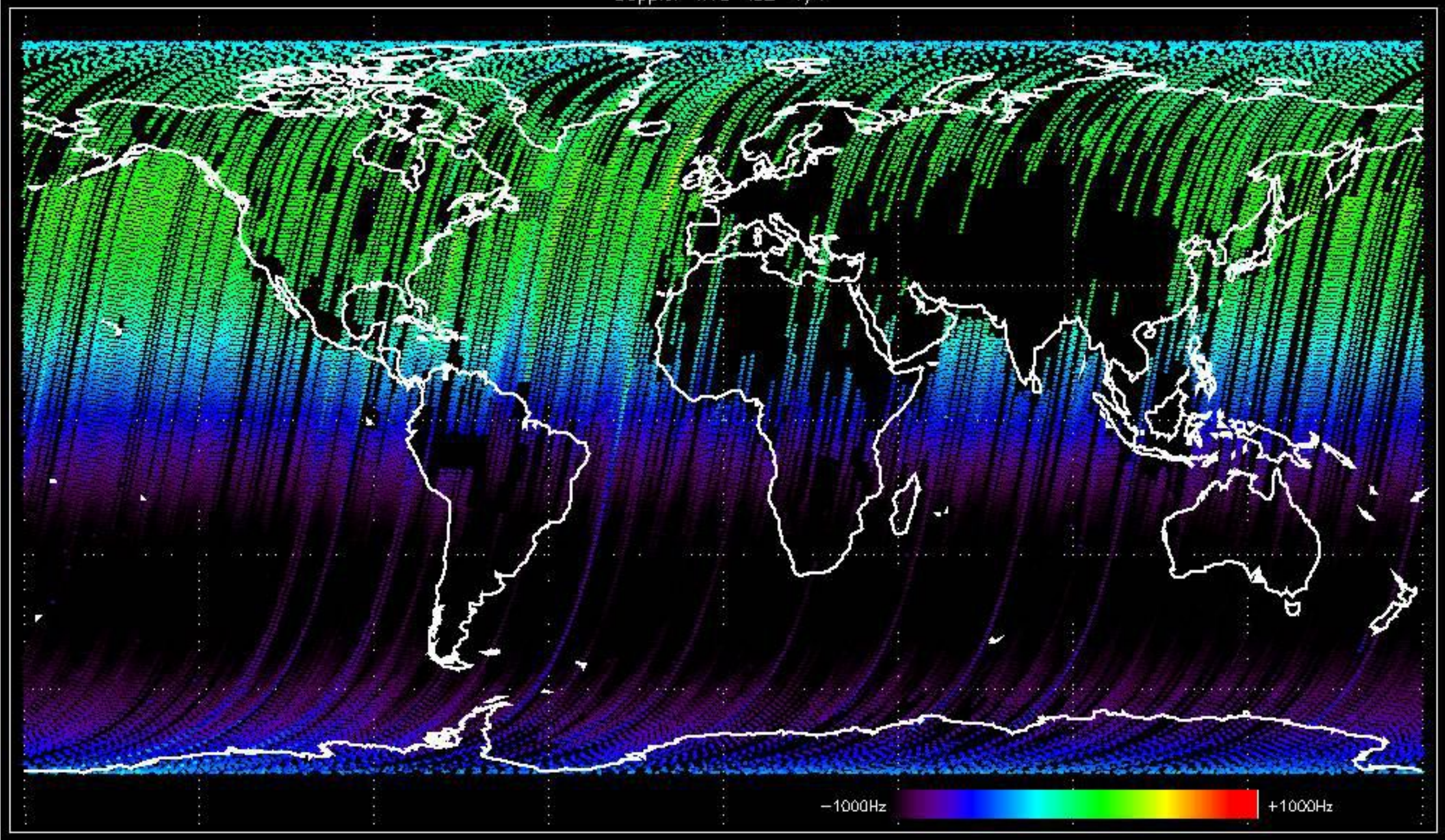


Doppler 'WVS' 'IS2' 'H/H'

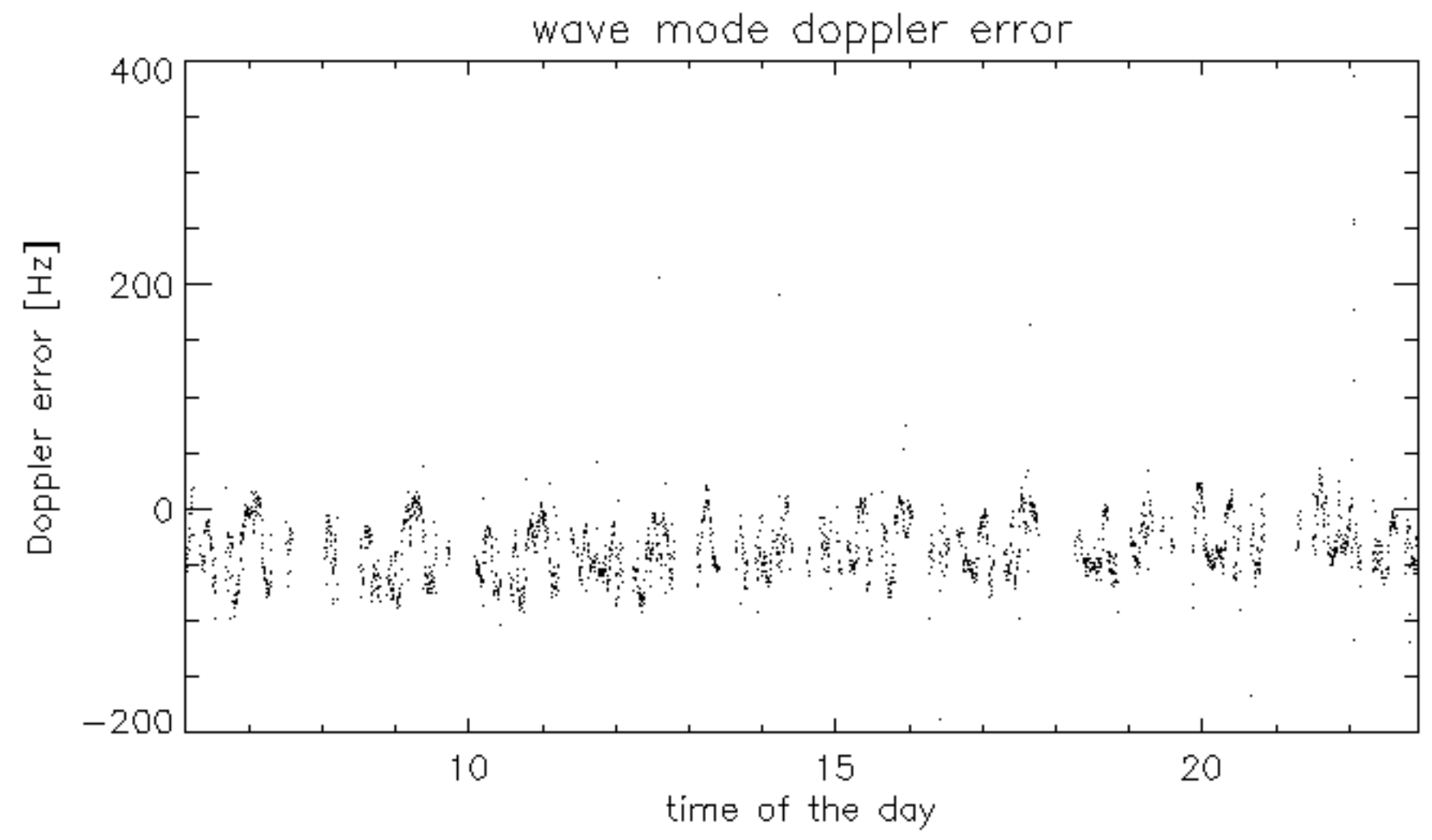
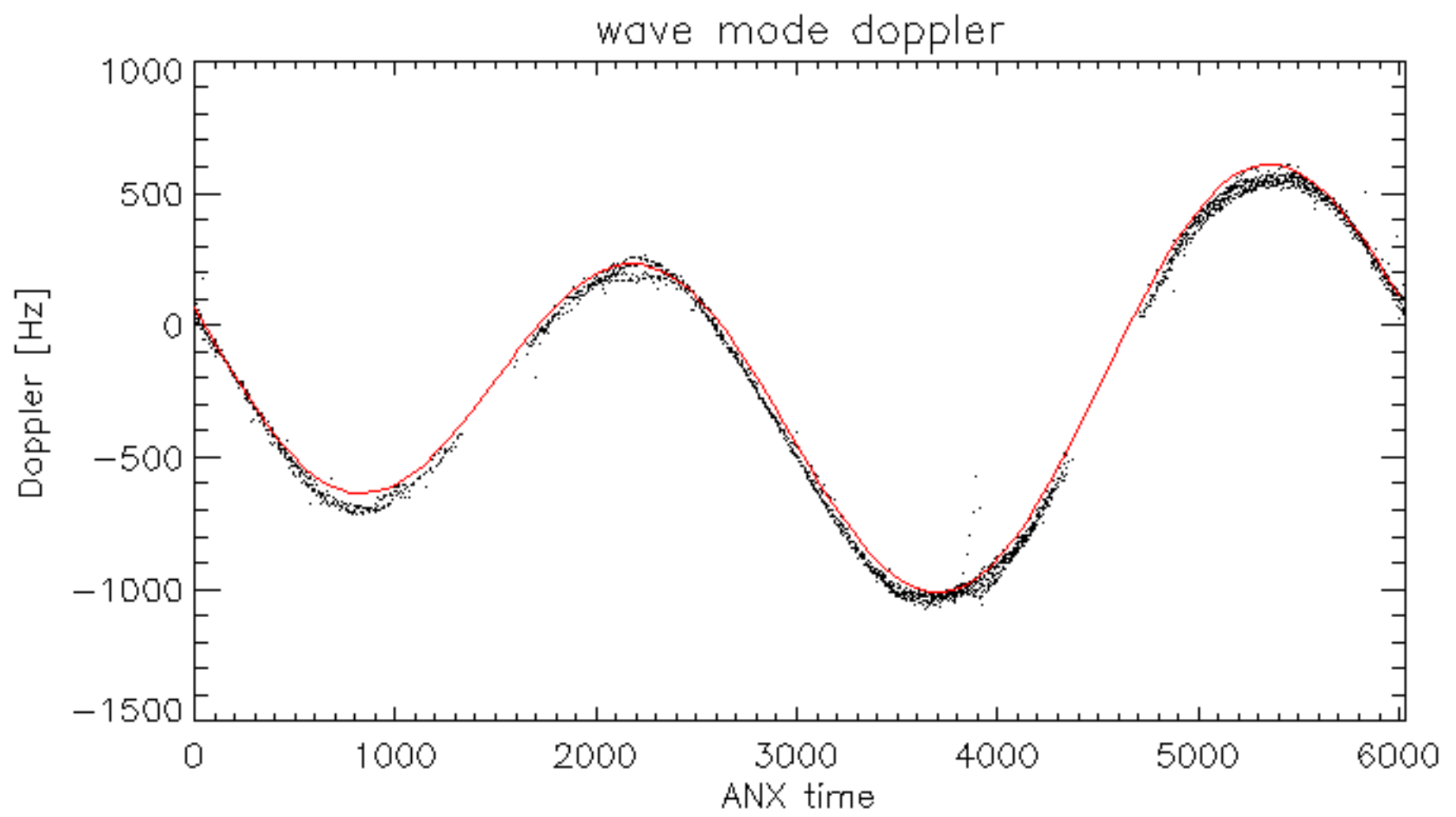




Doppler 'WVS' 'ISZ' 'V/V'

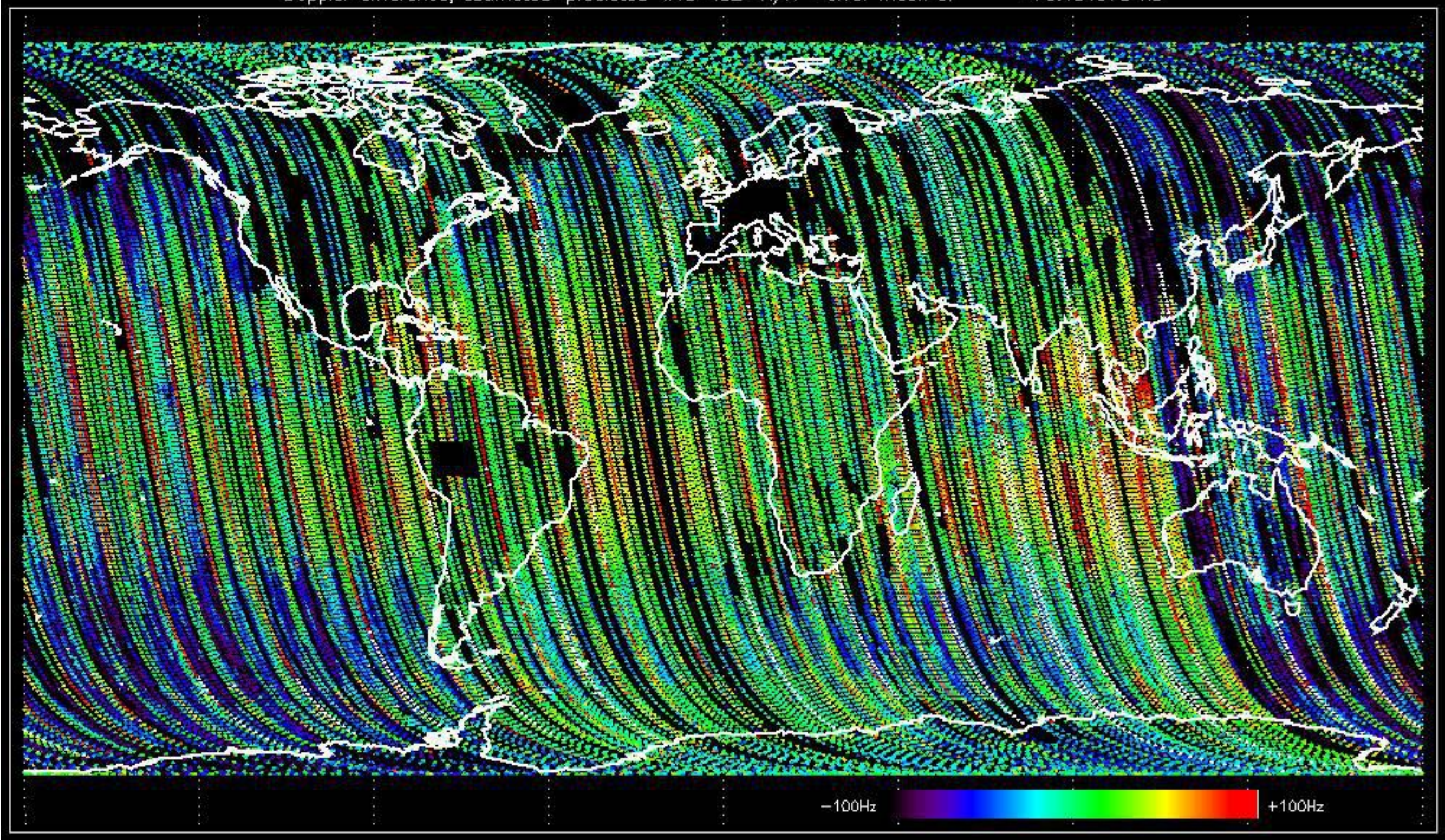






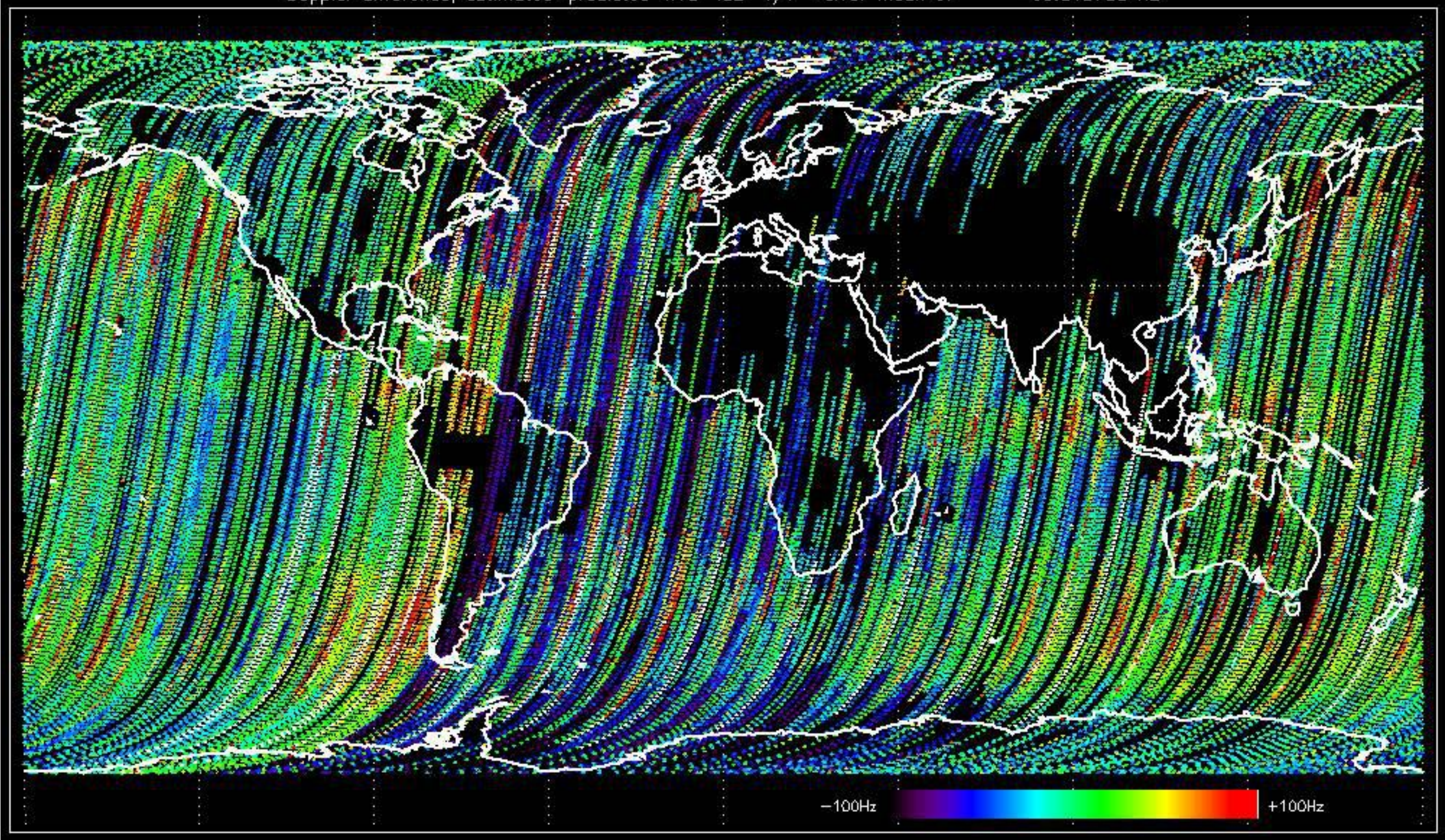


Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -70.154378 Hz





Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -63.813758 Hz





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No anomalies observed.













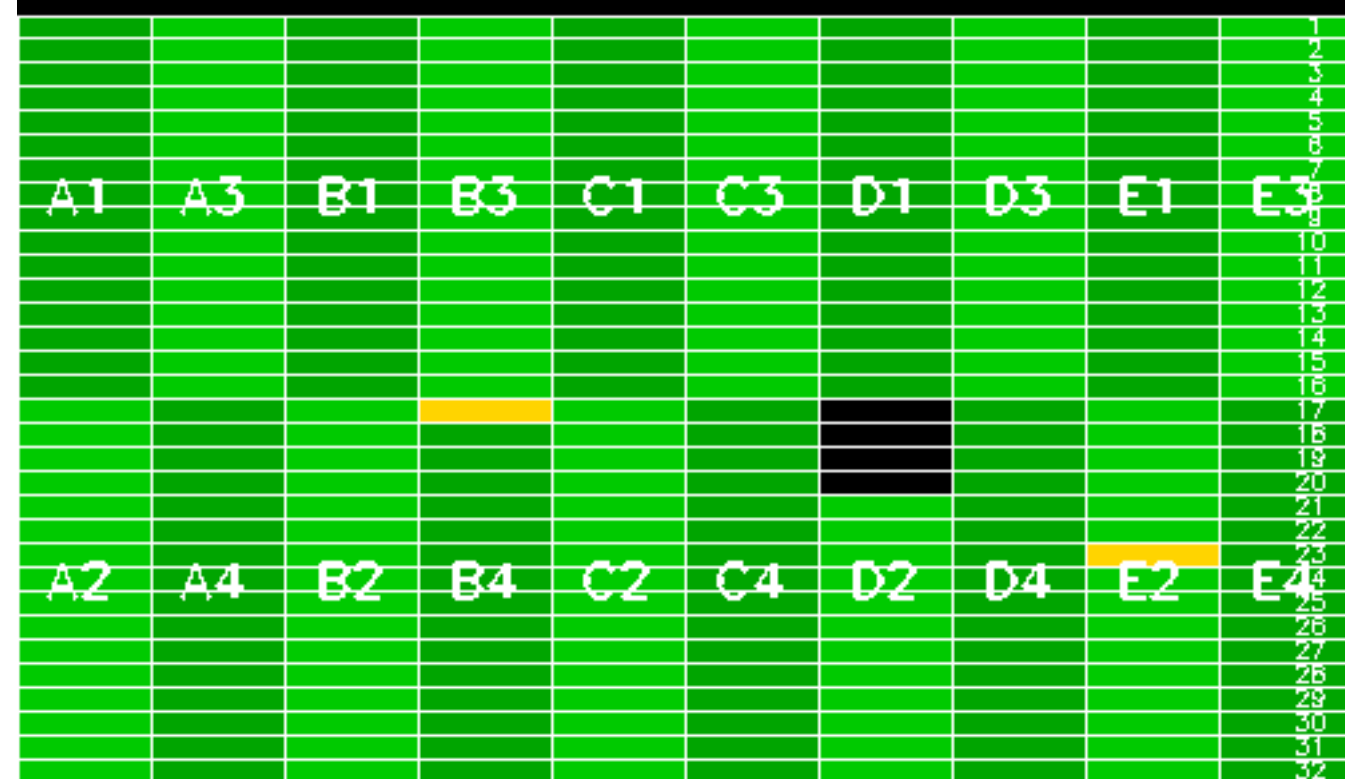


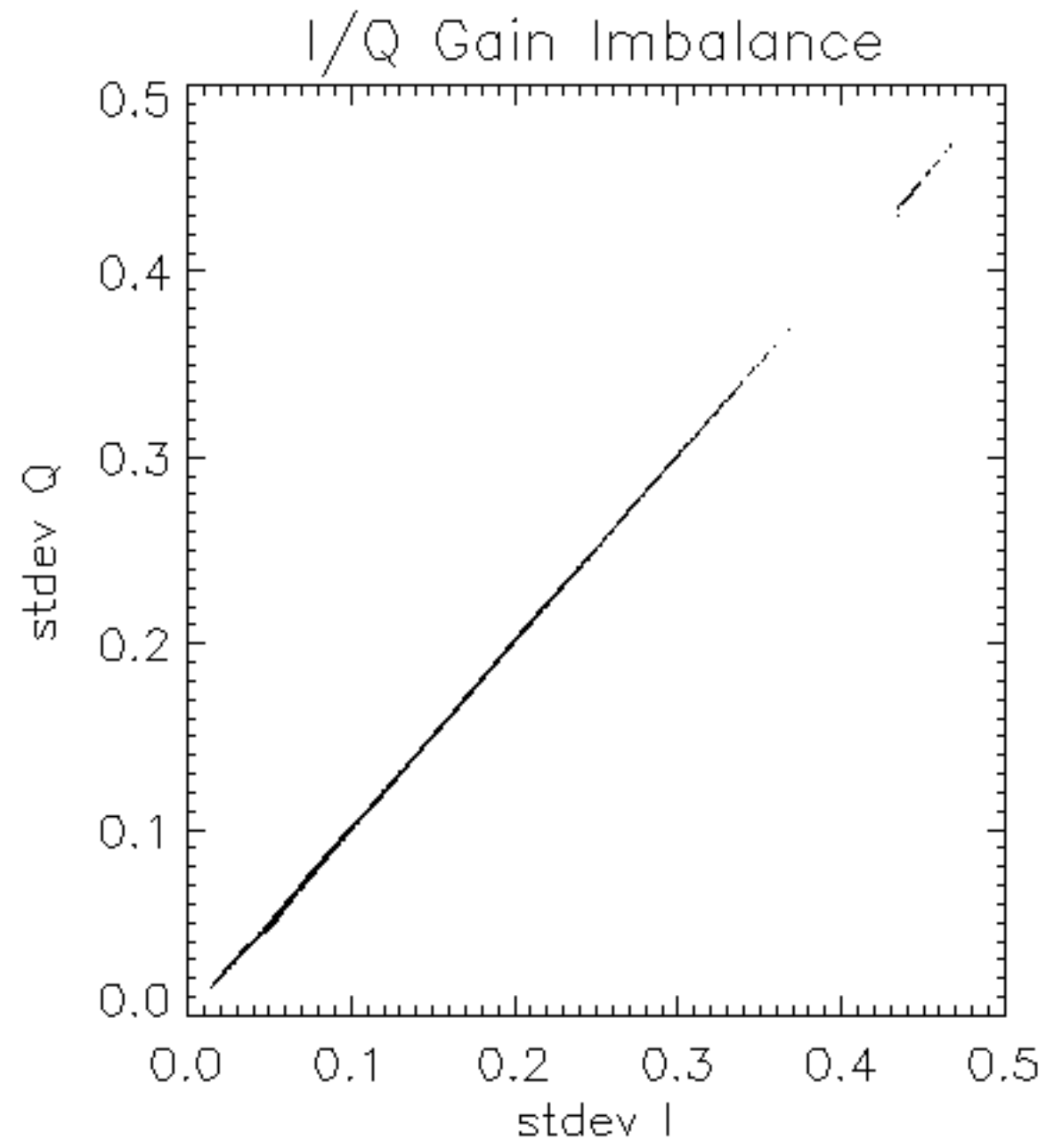


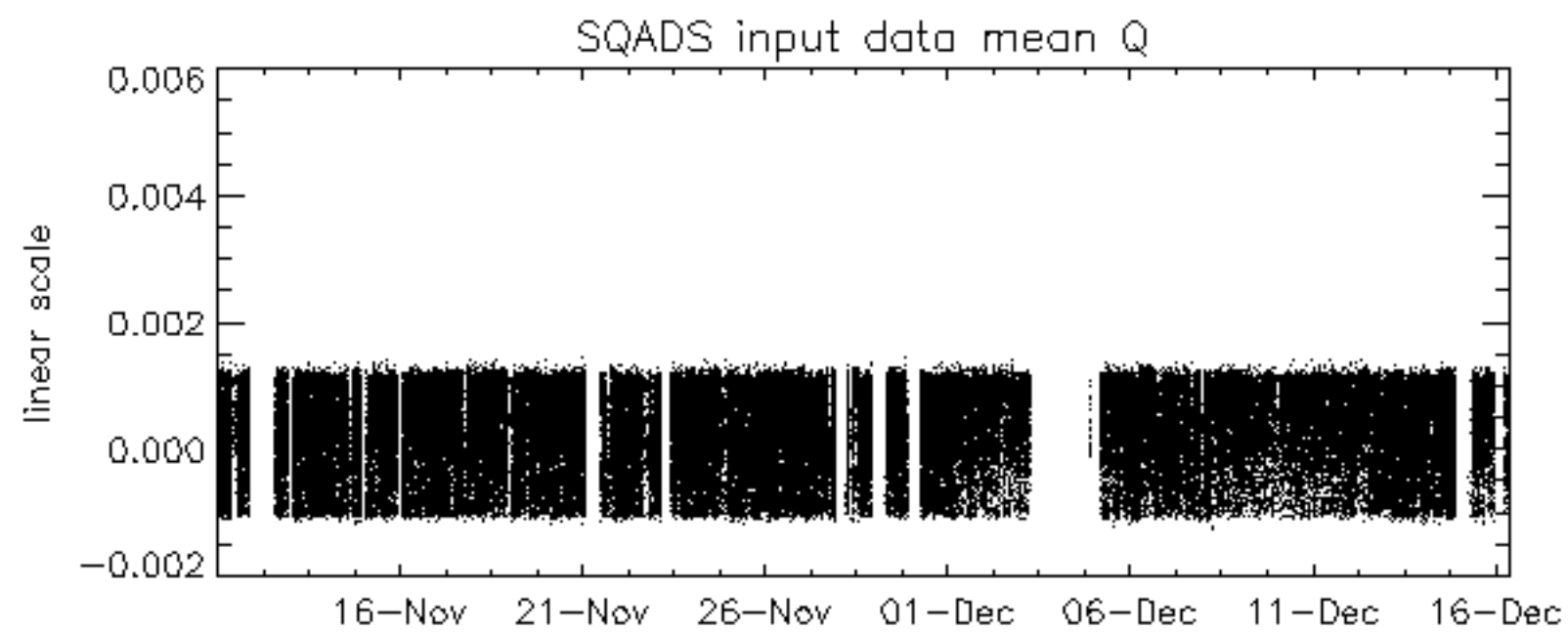
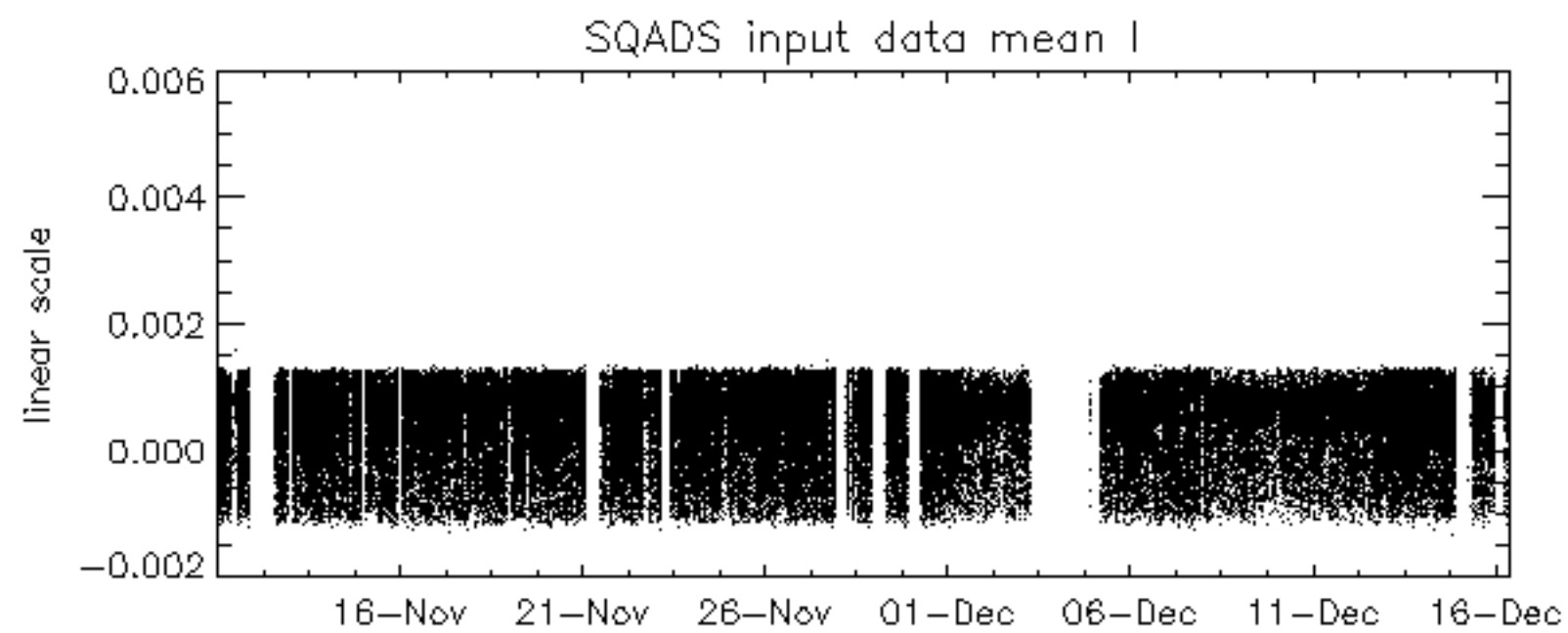
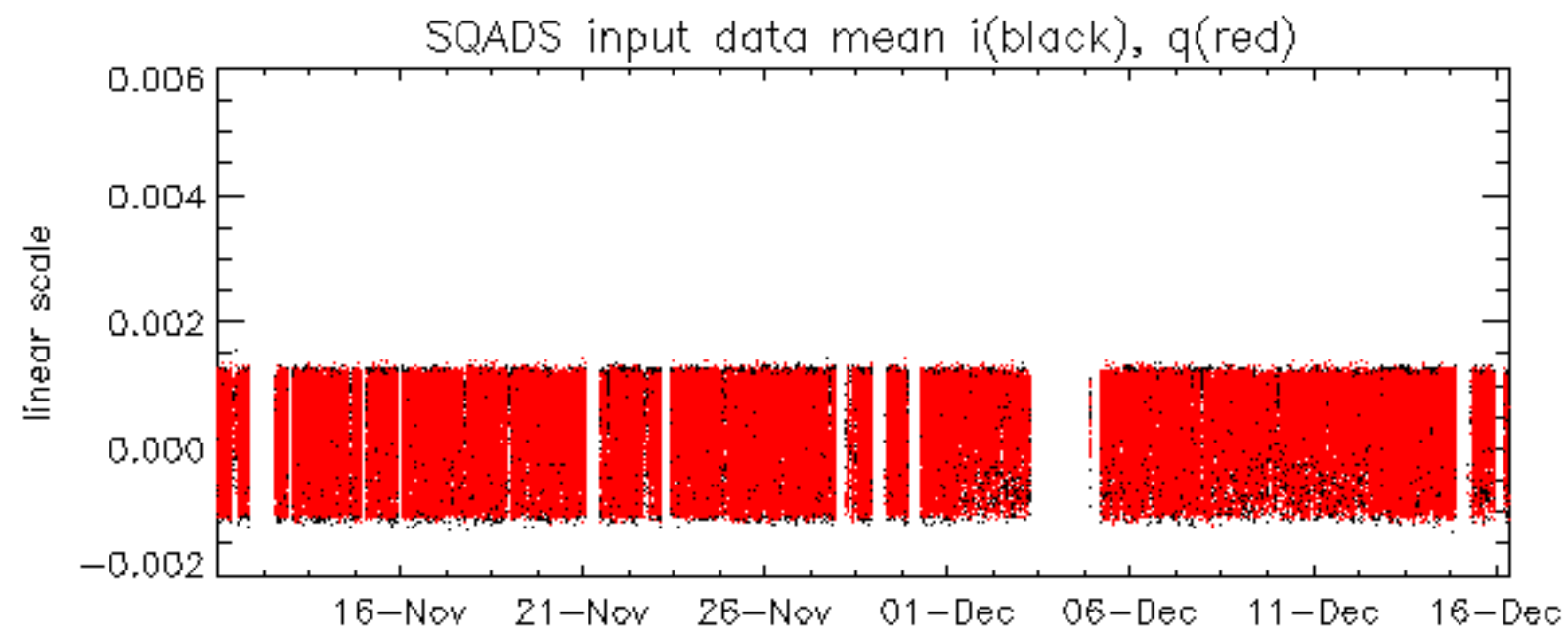
Reference: 2003-06-12 14:10:32 V

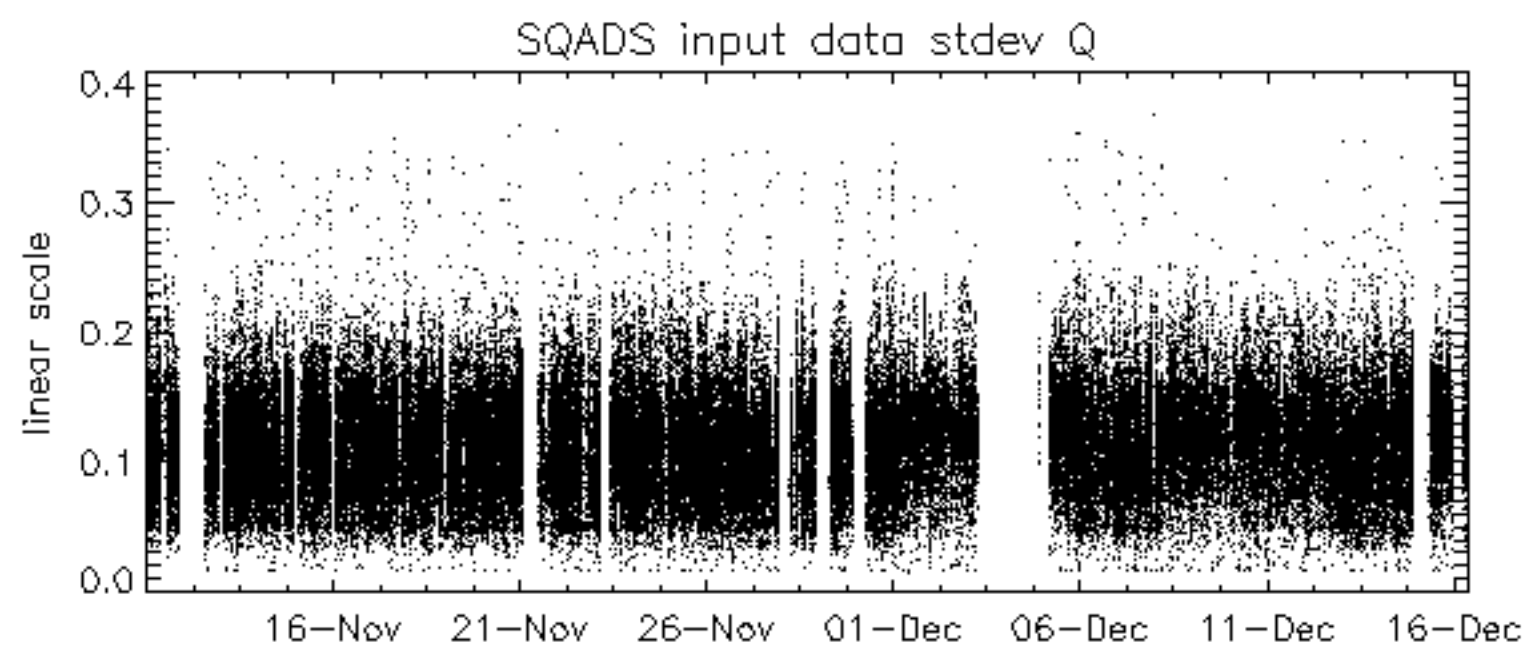
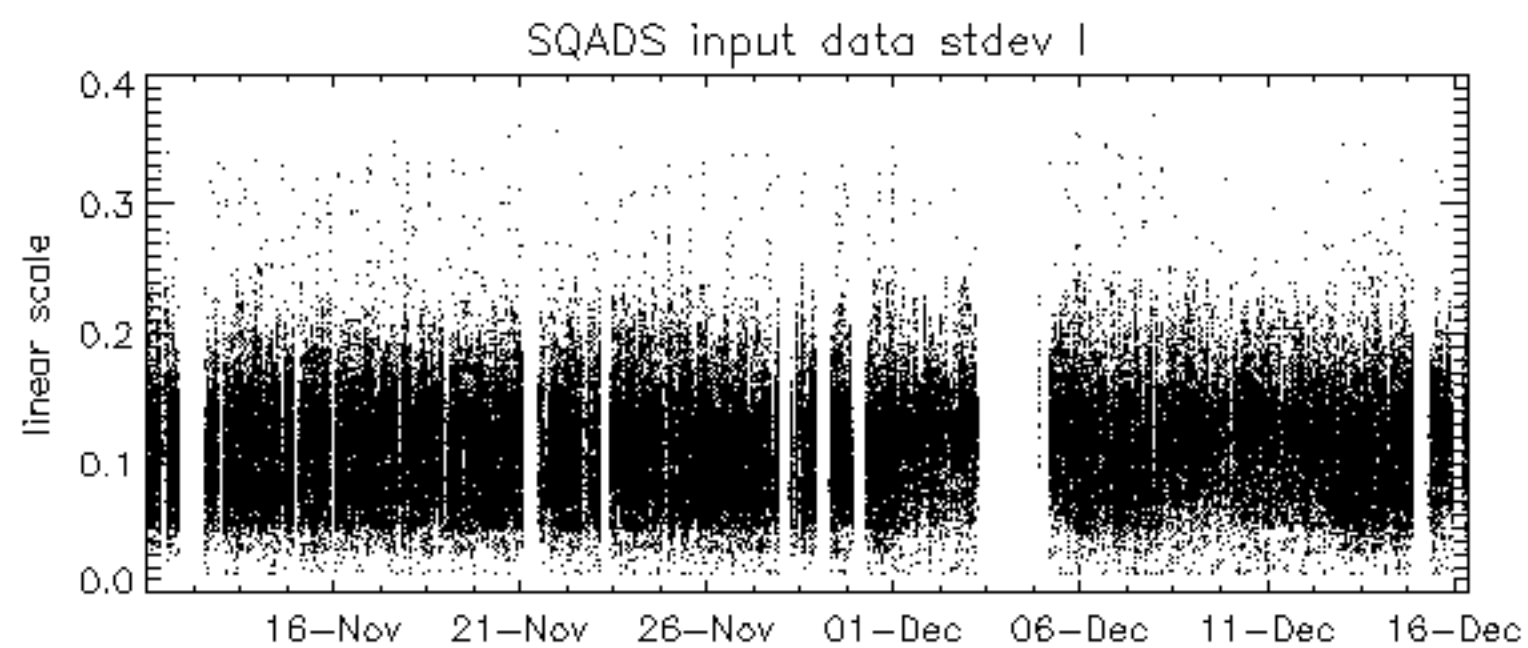
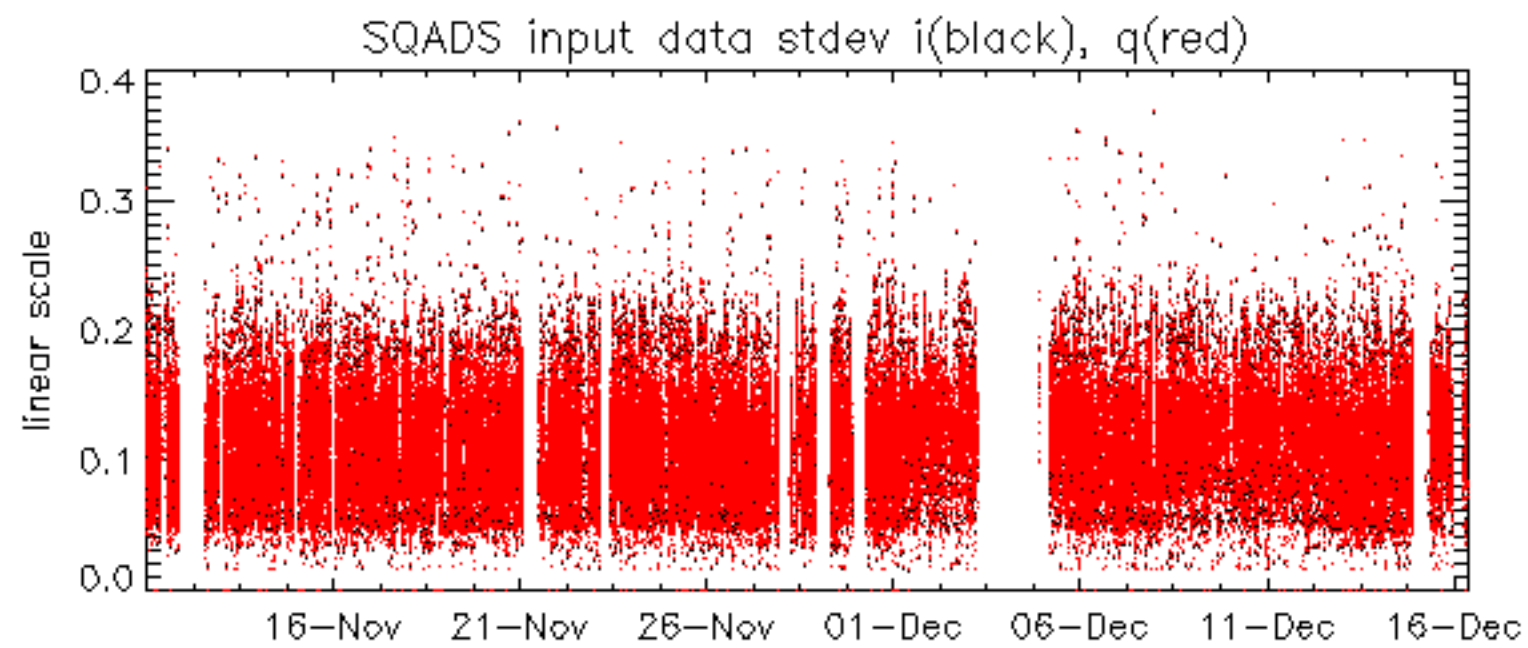
RxPhase

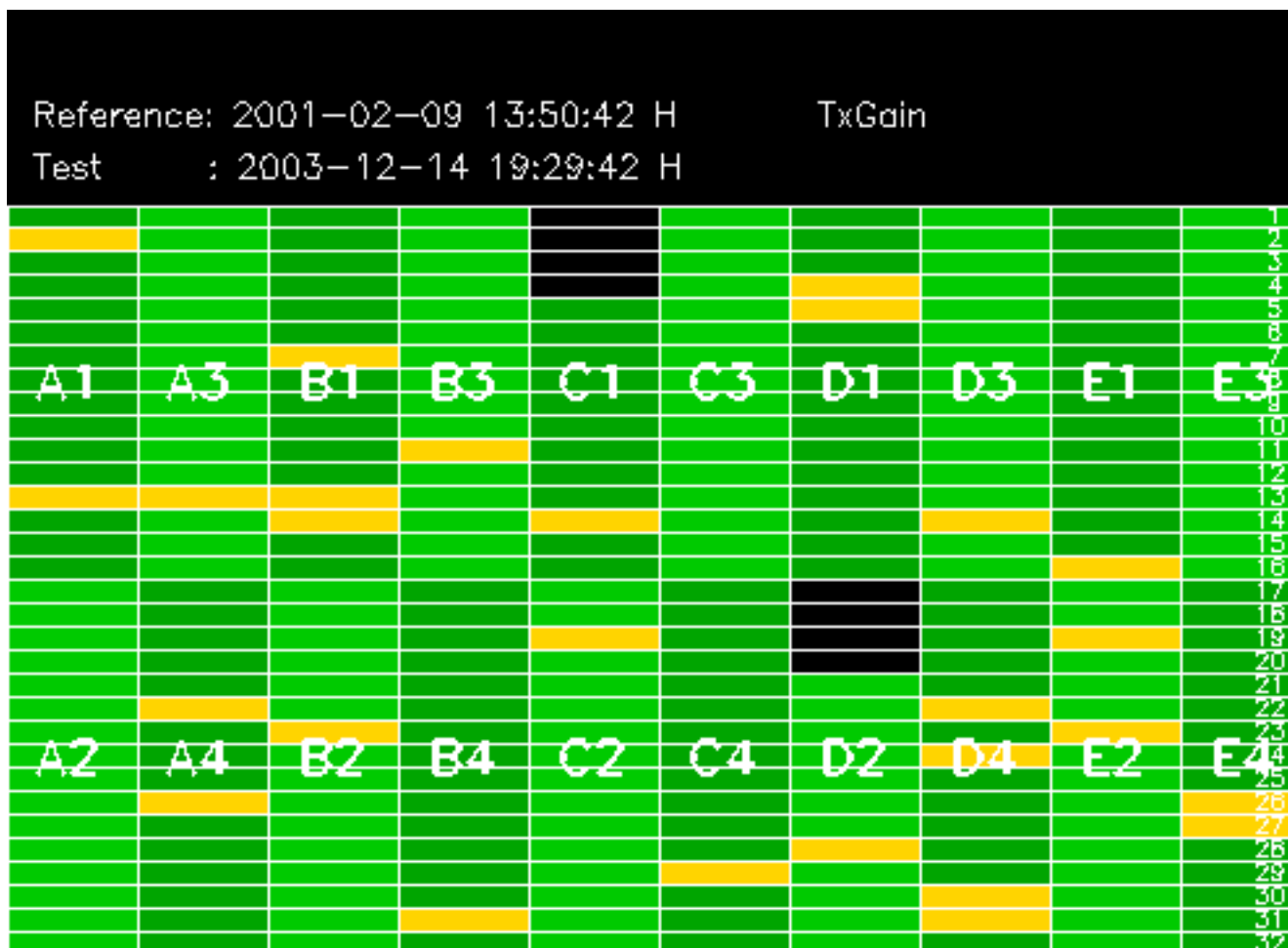
Test : 2003-12-14 19:31:02 V



























No unavailabilities for the reported period.