

# REPORT OF 040107

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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

No anomalies observed on available browse products

### 2.3 - Data Analysis

Preliminary report. The data is not yet controlled

### 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	20040106 204841
H	20040106 204721

#### 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	-3.69855	-22.5296	-8.15672
	stdev	0.00723734	0.0764992	0.00346005
24	mean	-5.06778	-21.1421	-8.15672
	stdev	0.0136036	0.0692810	0.00346005



## 4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.74649	-22.5402	-8.14381
	stdev	0.0892388	0.0712147	0.00520795
24	mean	-5.21408	-21.1743	-8.14381
	stdev	0.576959	0.0638994	0.00520795



## 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	0.000433979
	stdev	3.02990e-07
MEAN Q	mean	0.000296320
	stdev	3.71508e-07



### 5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115521
	stdev	0.00141224
STDEV Q	mean	0.115769
	stdev	0.00142670



### 5.3 - Gain imbalance I/Q



## 6 - Wave Doppler Analysis

Preliminary report. The data is not yet controlled

### 6.1 - Unbiased Doppler Error

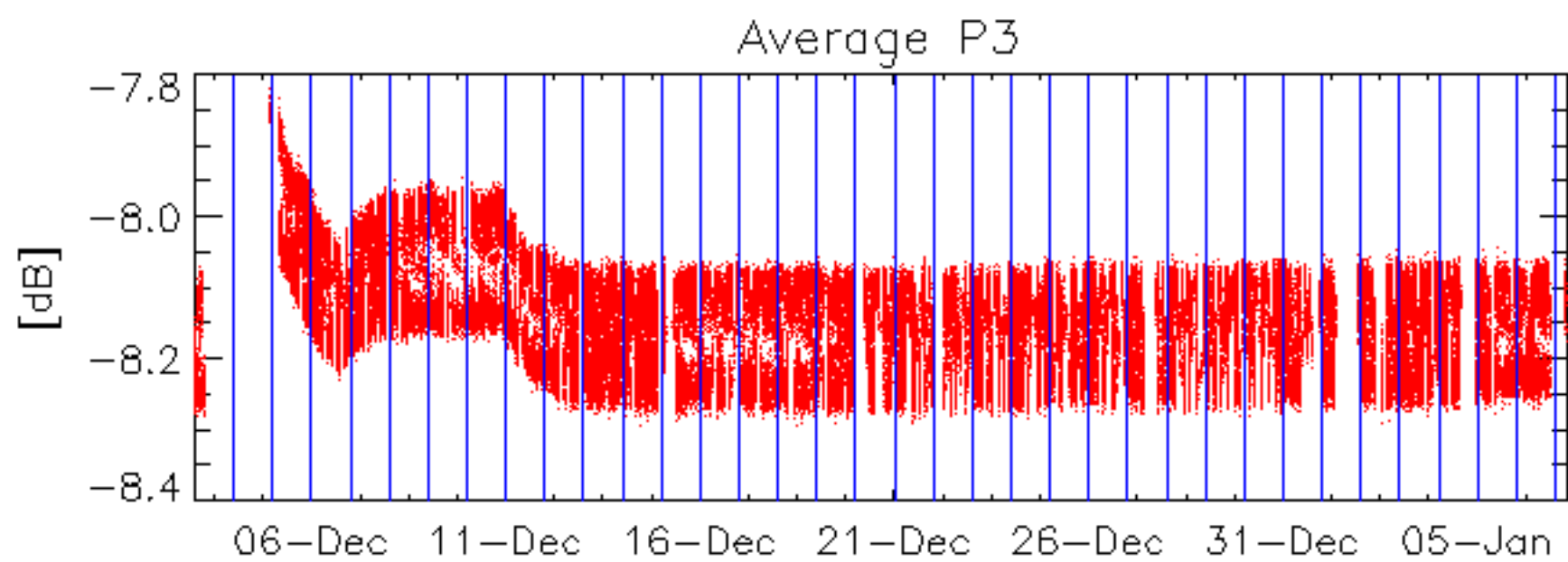
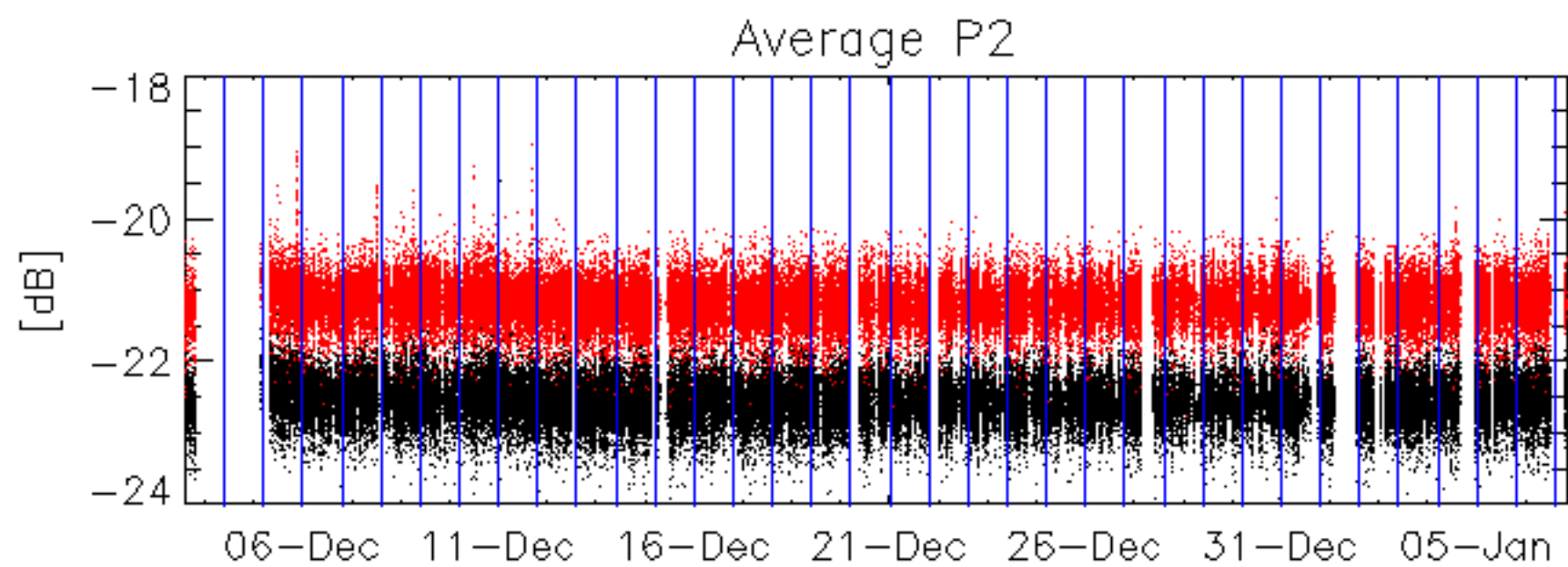
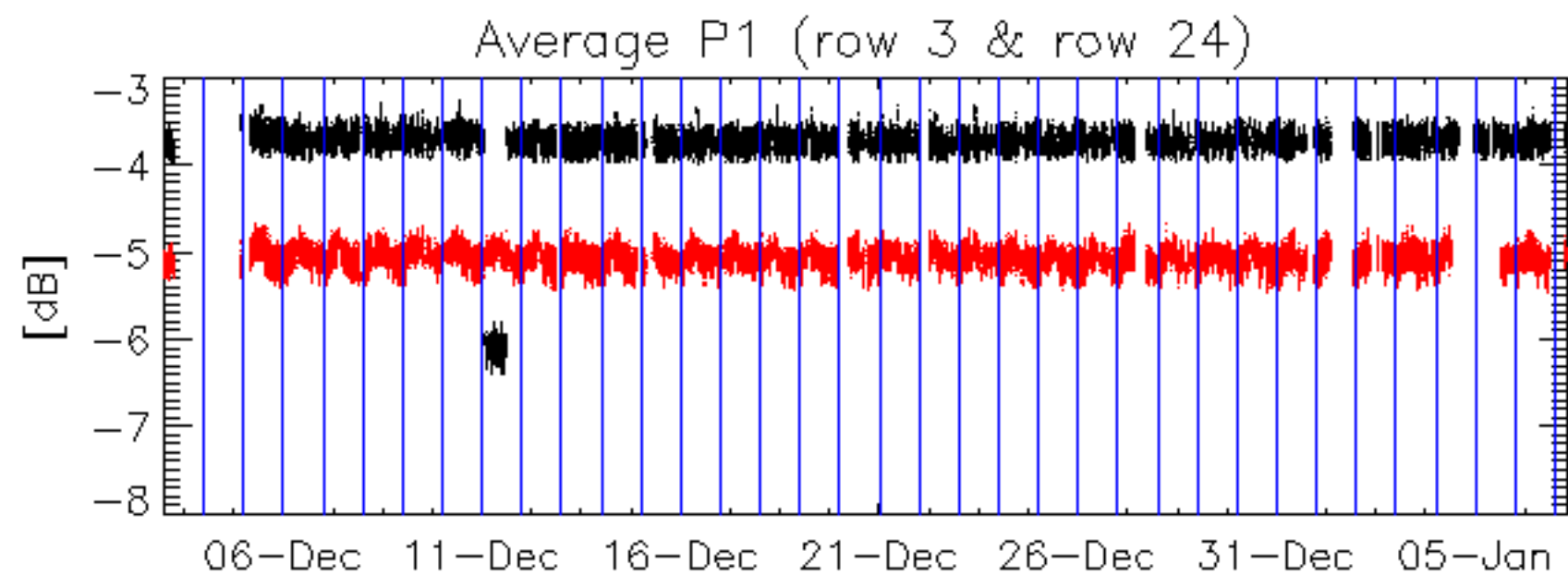
Evolution of unbiased Doppler error (Real - Expected)
Ascending
Descending

### 6.2 - Absolute Doppler

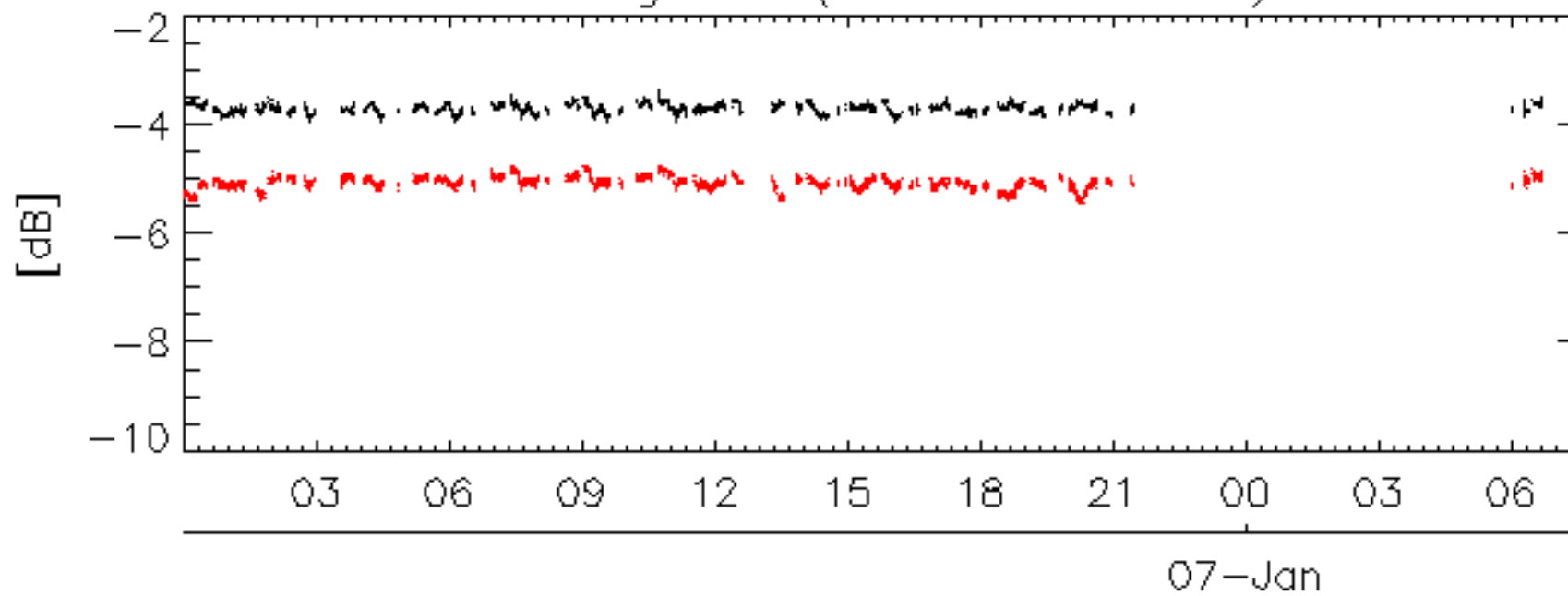
Evolution of Absolute Doppler
Ascending
Descending

### 6.3 - Doppler evolution versus ANX

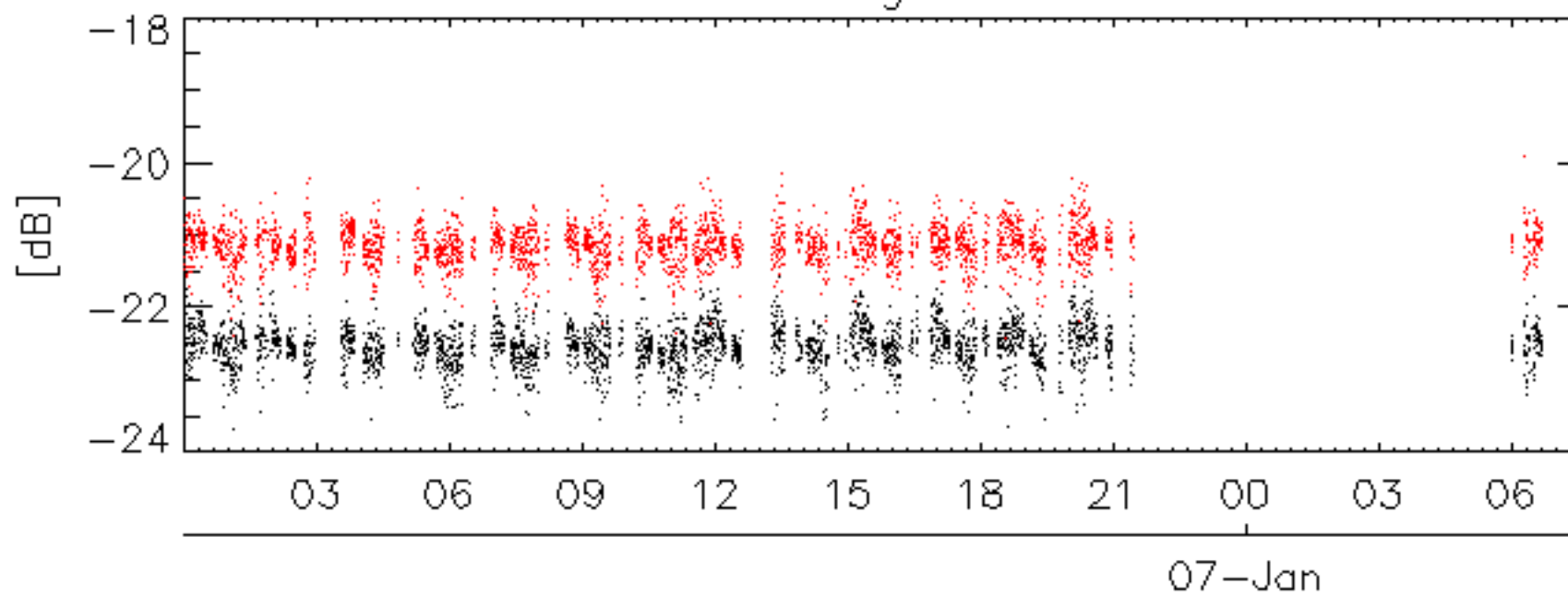
Evolution Doppler error versus ANX

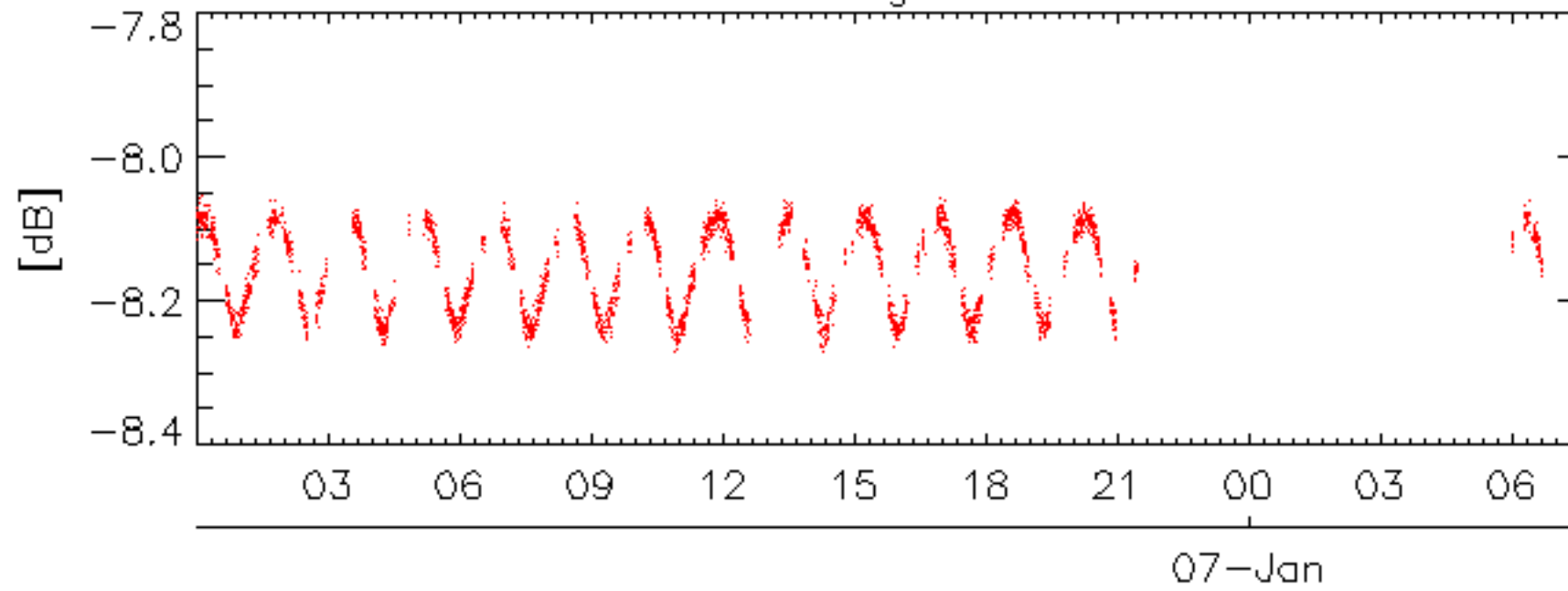
Average P1 (row 3 & row 24)



Average P2



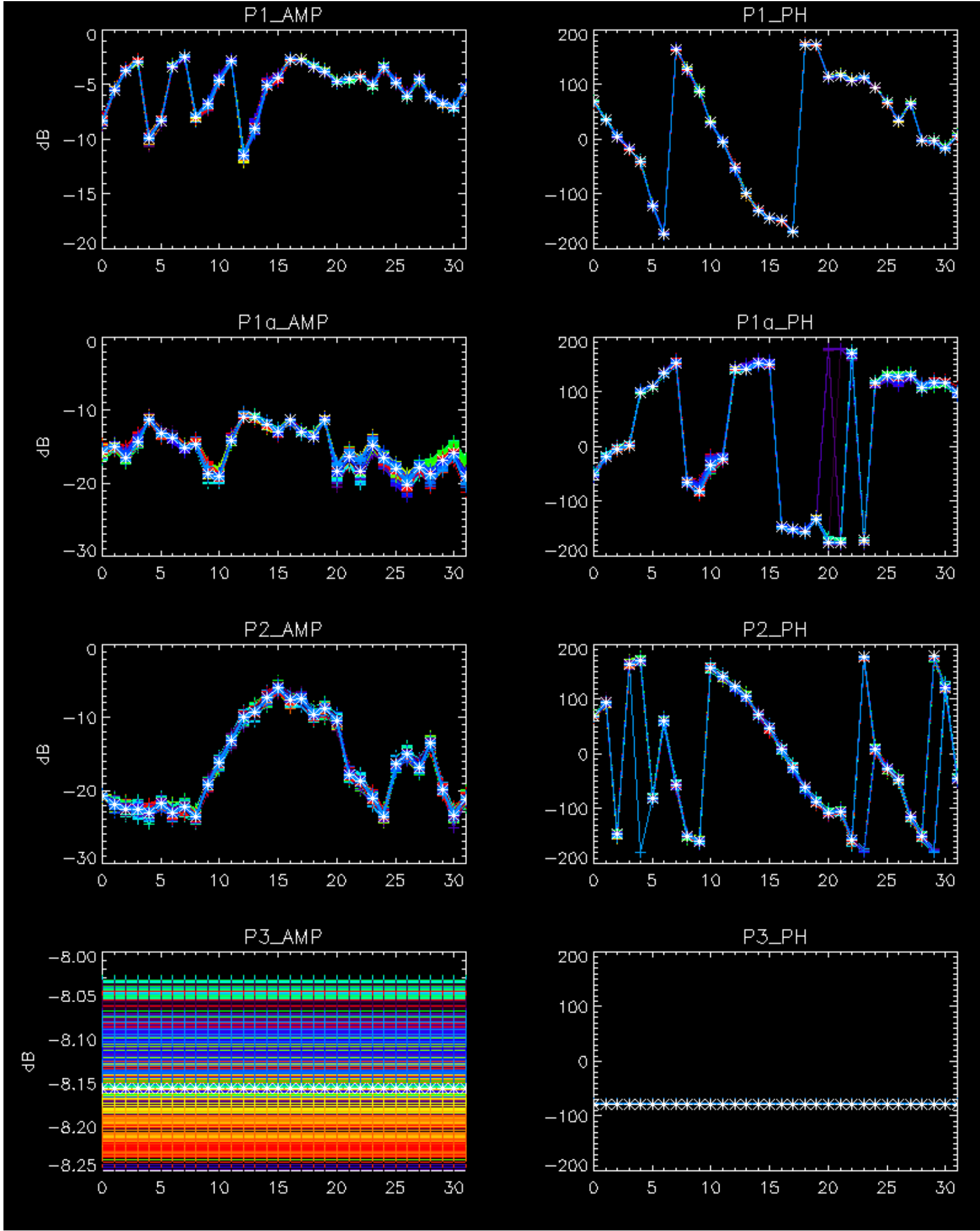
Average P3



No anomalies observed on available browse products

No anomalies observed.



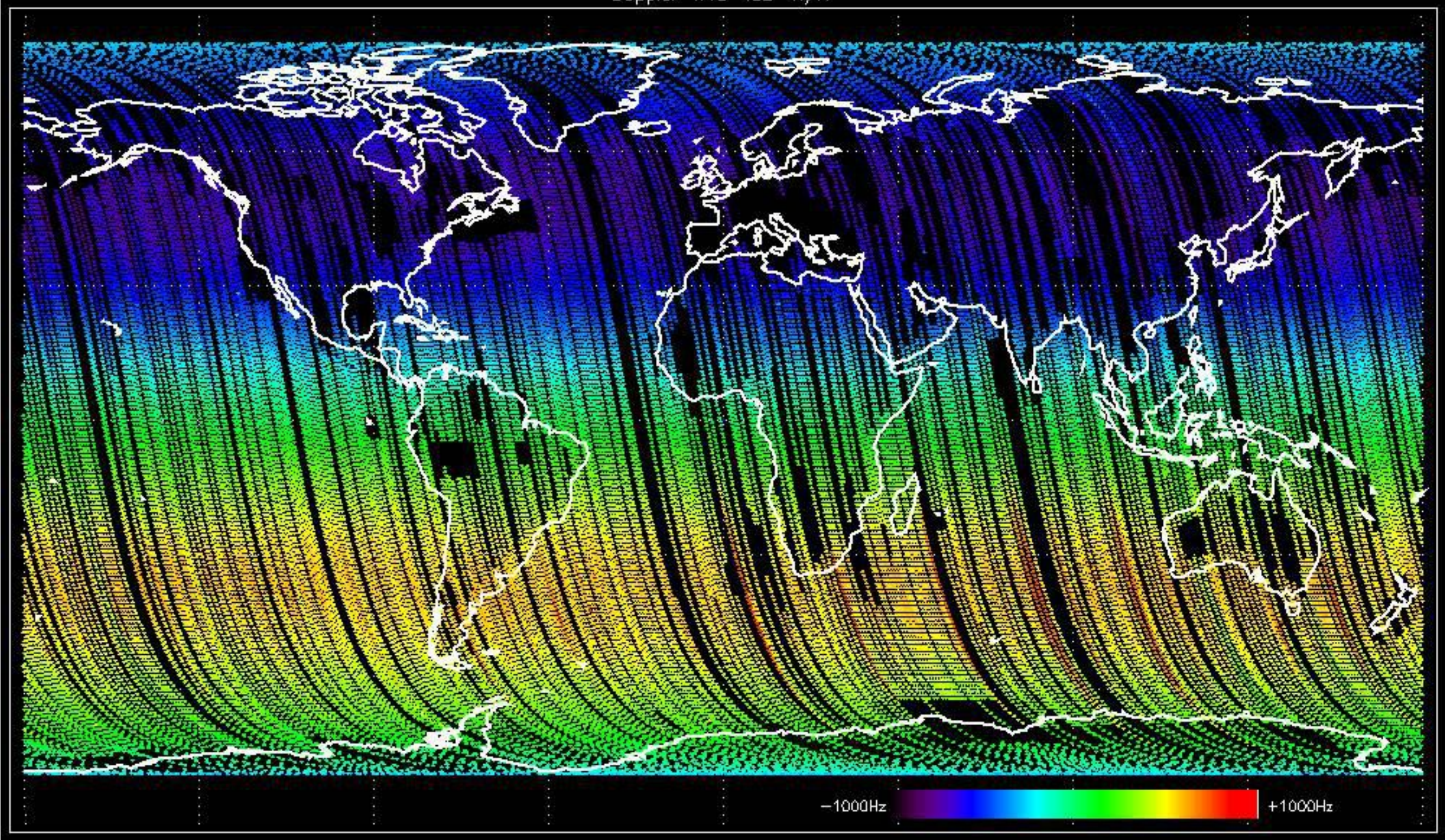






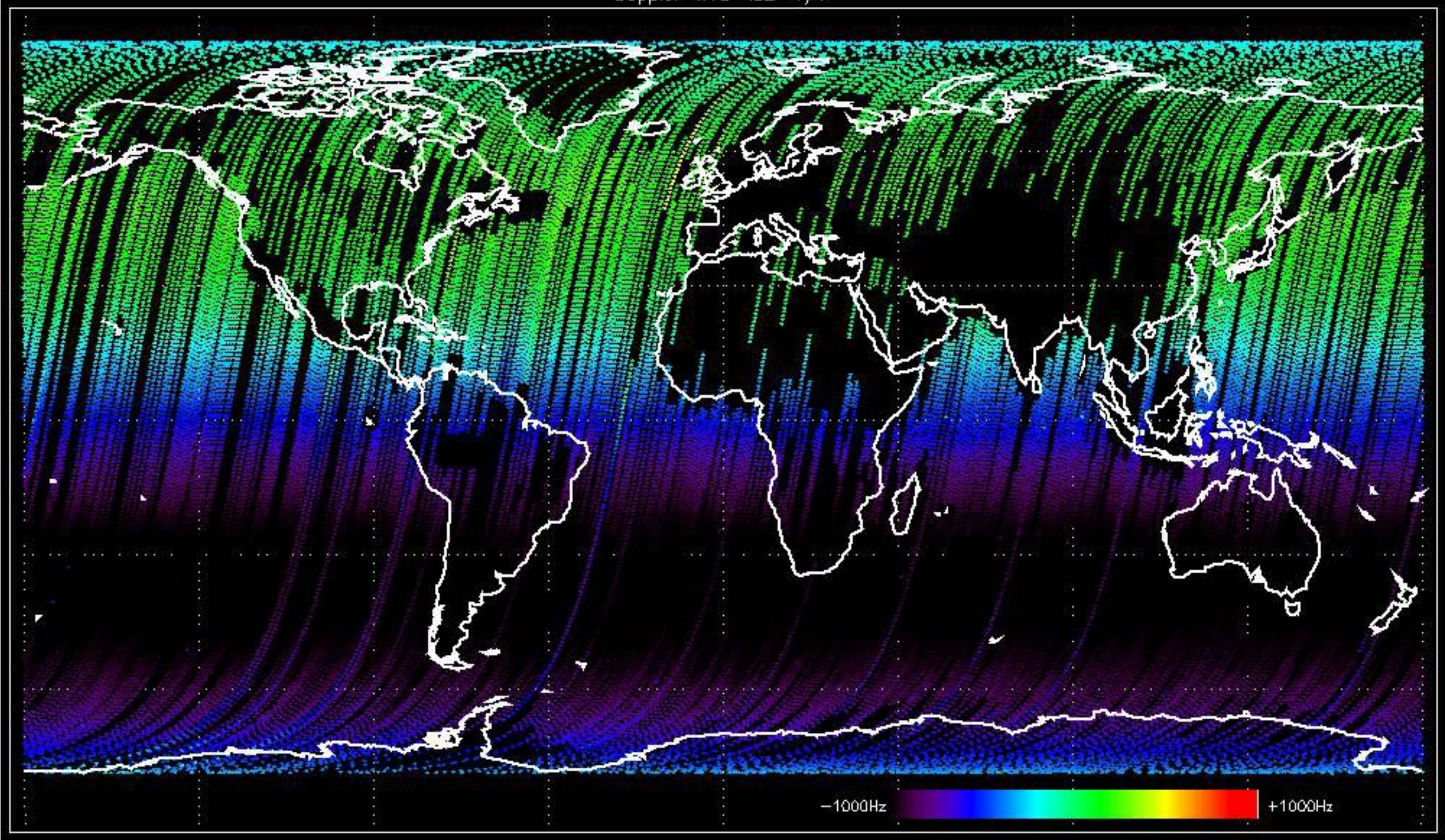


Doppler 'WVS' 'IS2' 'H/H'

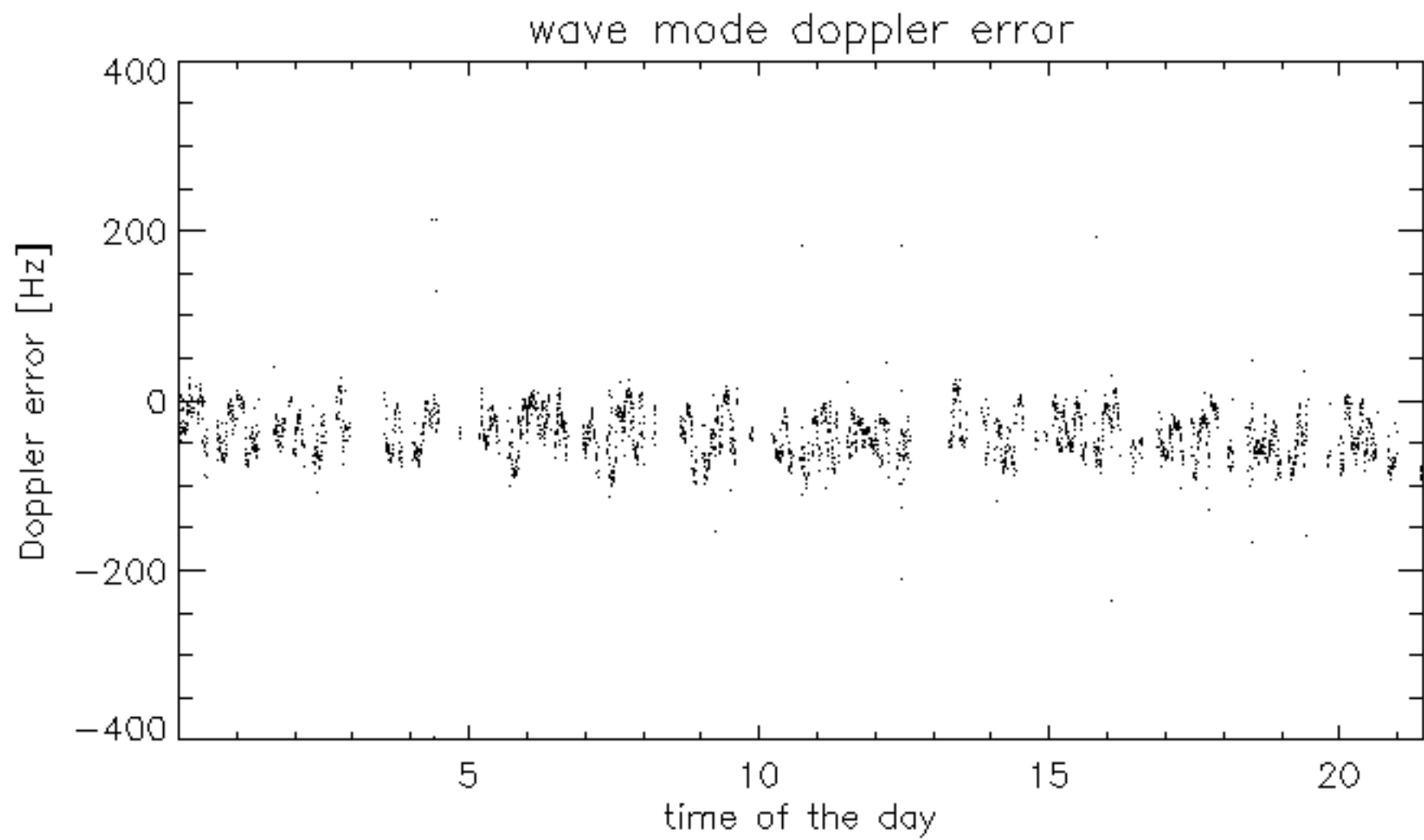
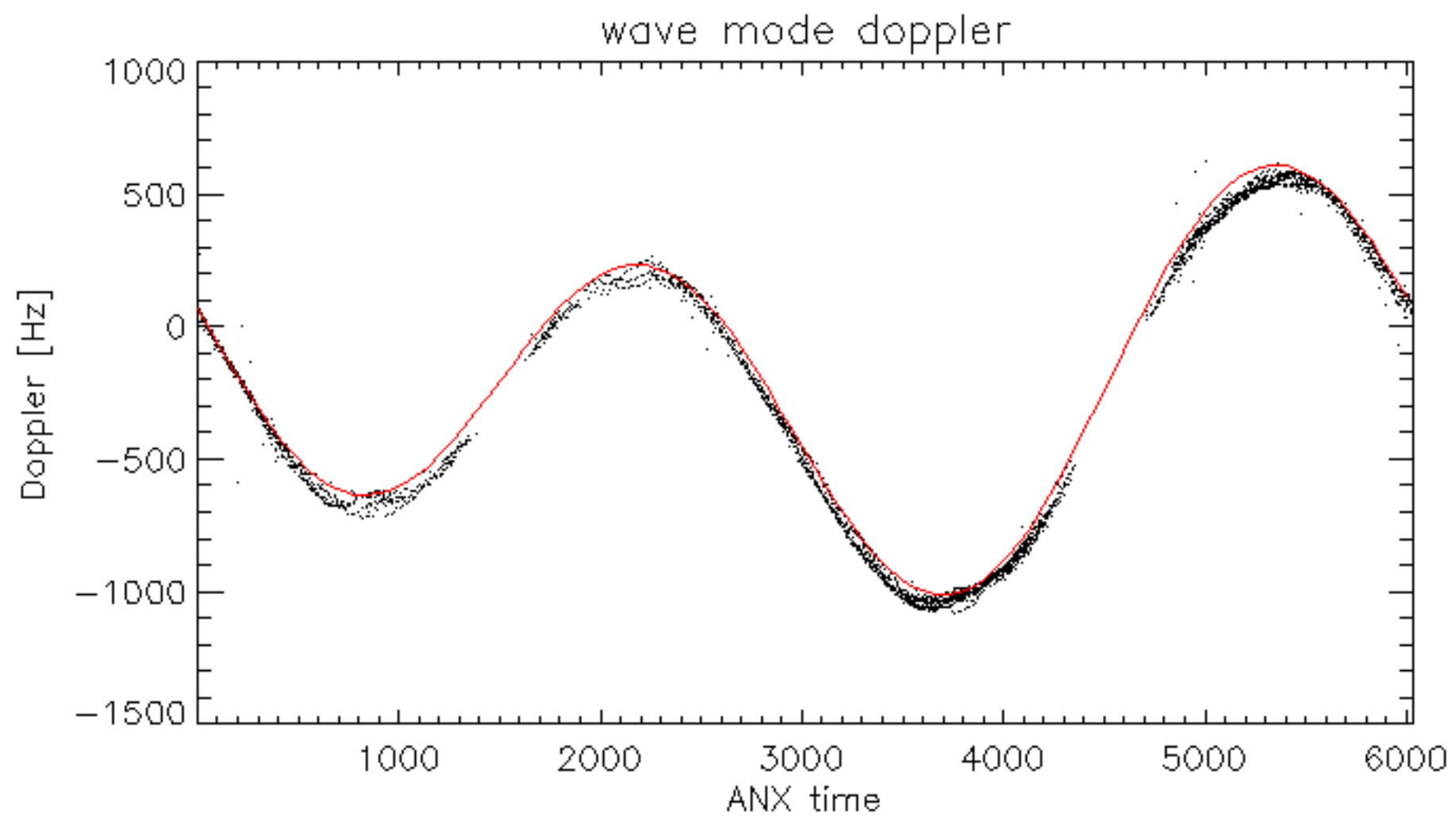




Doppler 'WVS' 'IS2' 'V/V'

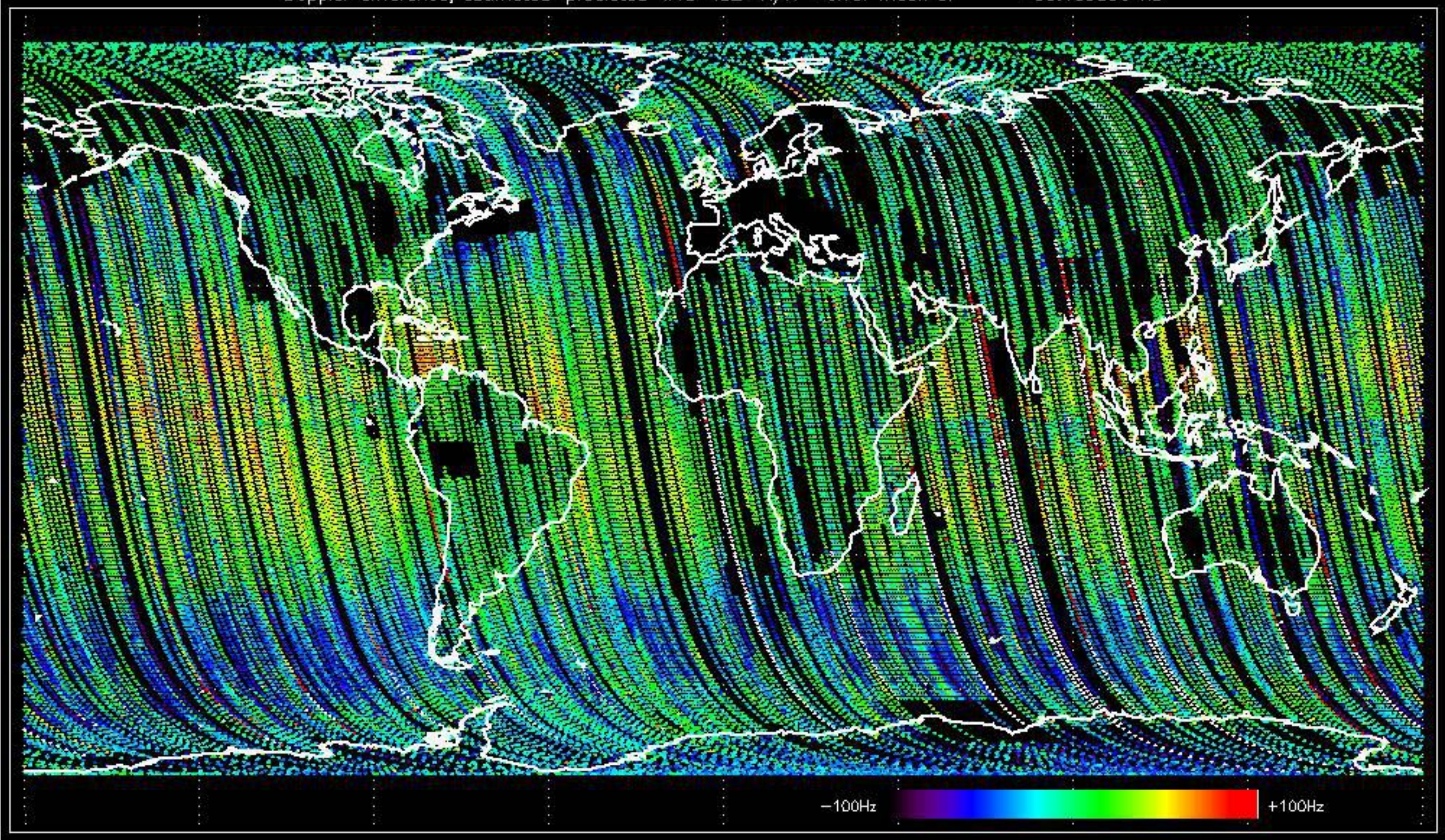






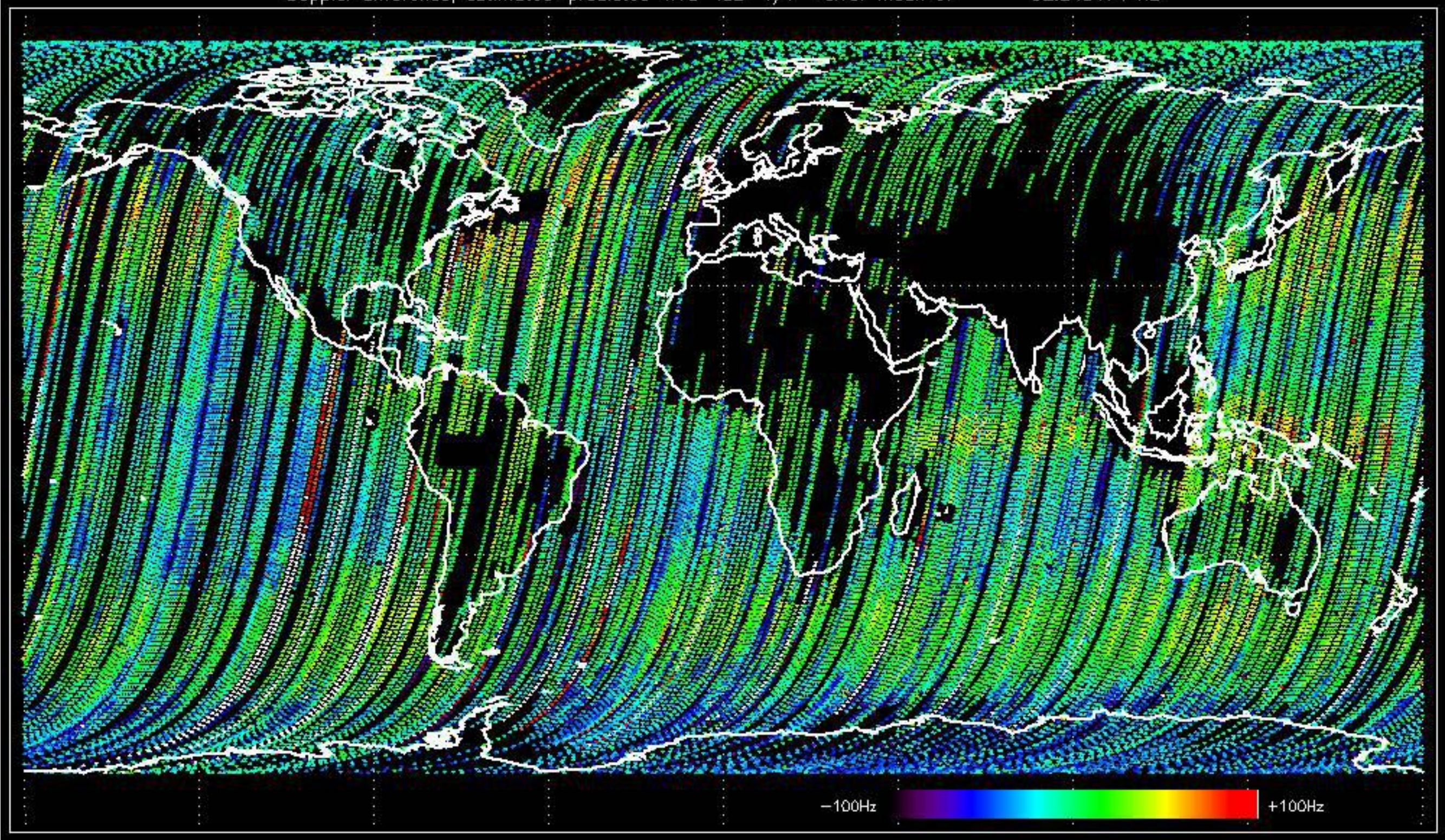


Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -36.409836 Hz





Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -32.245171 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.









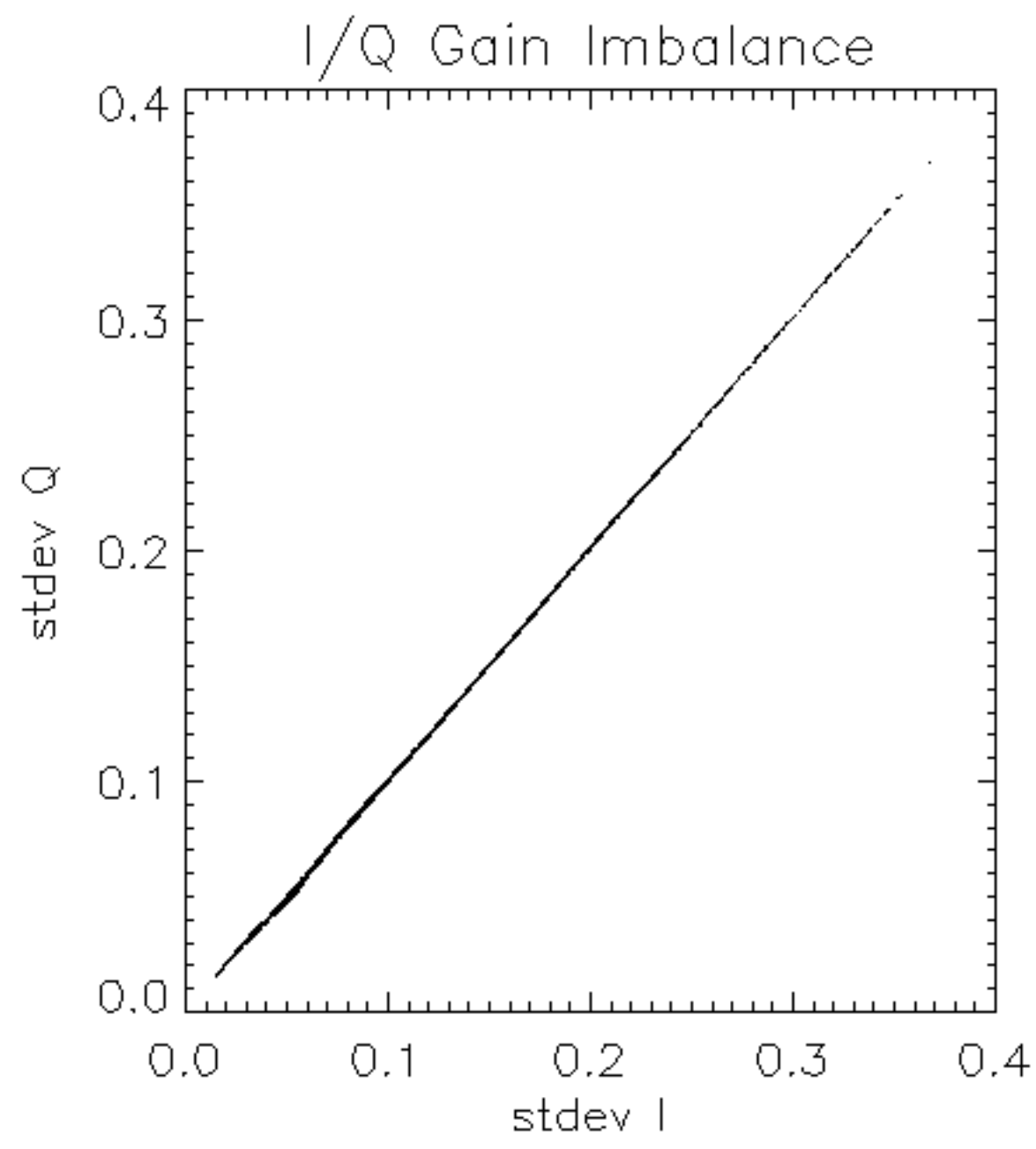


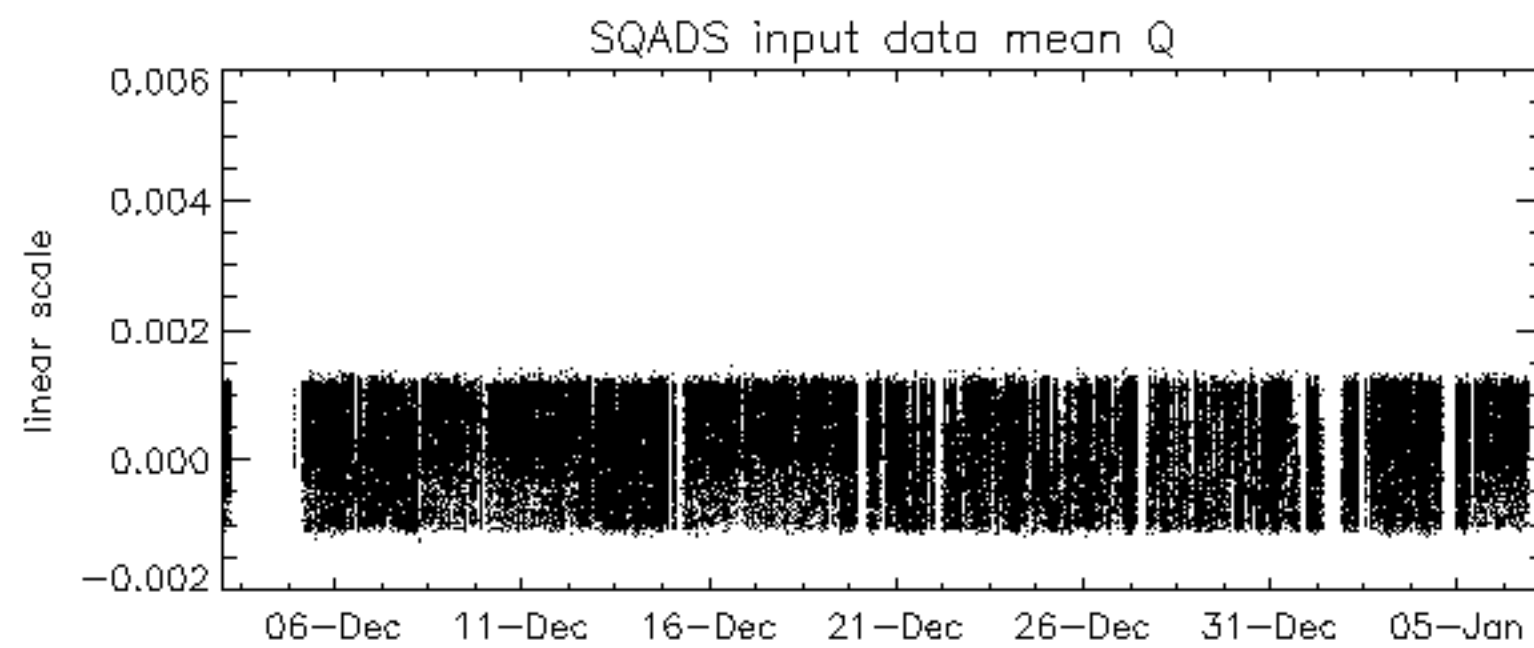
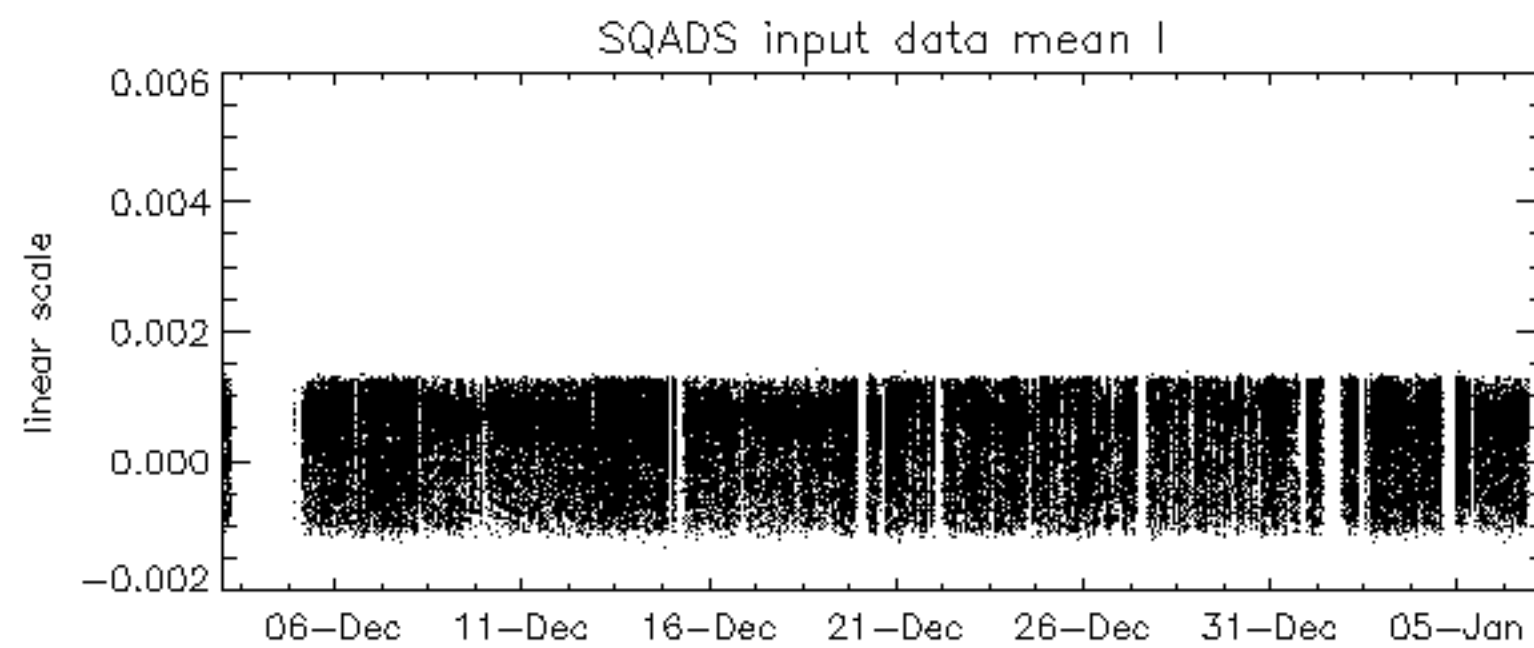
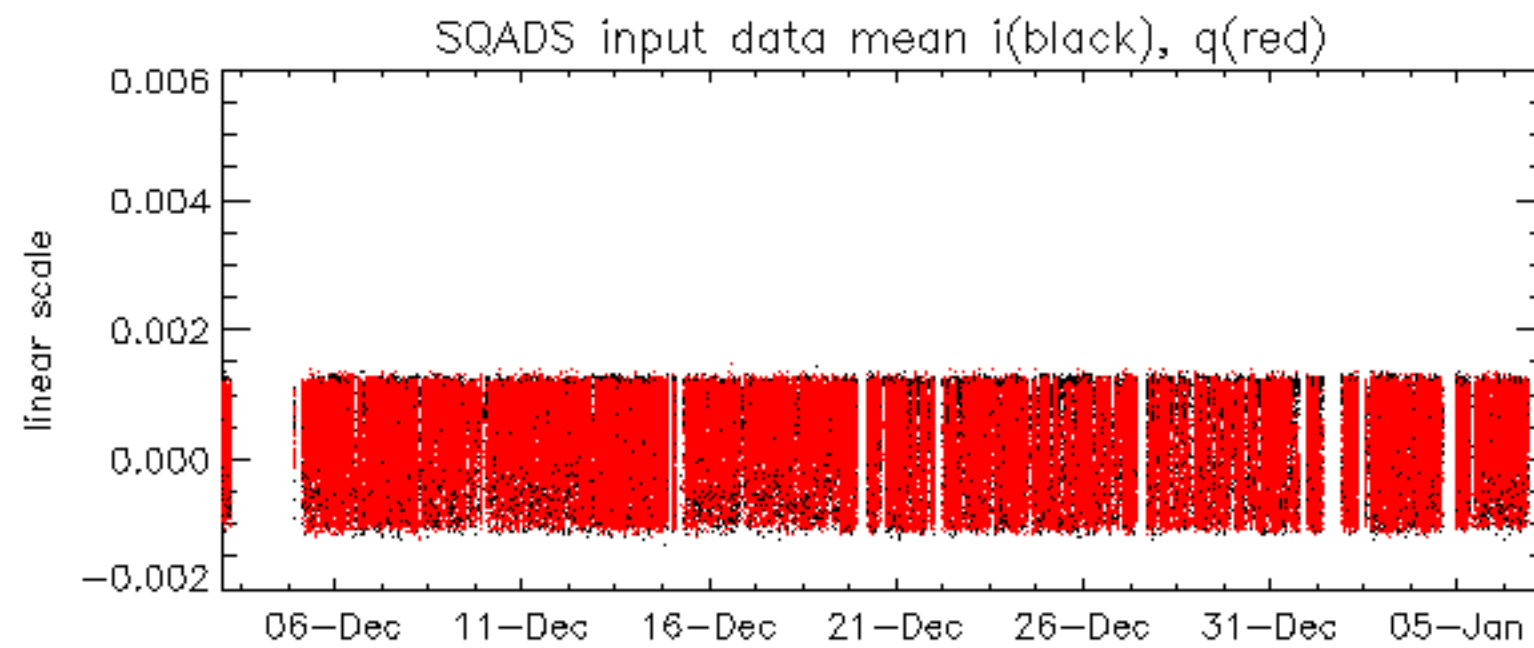


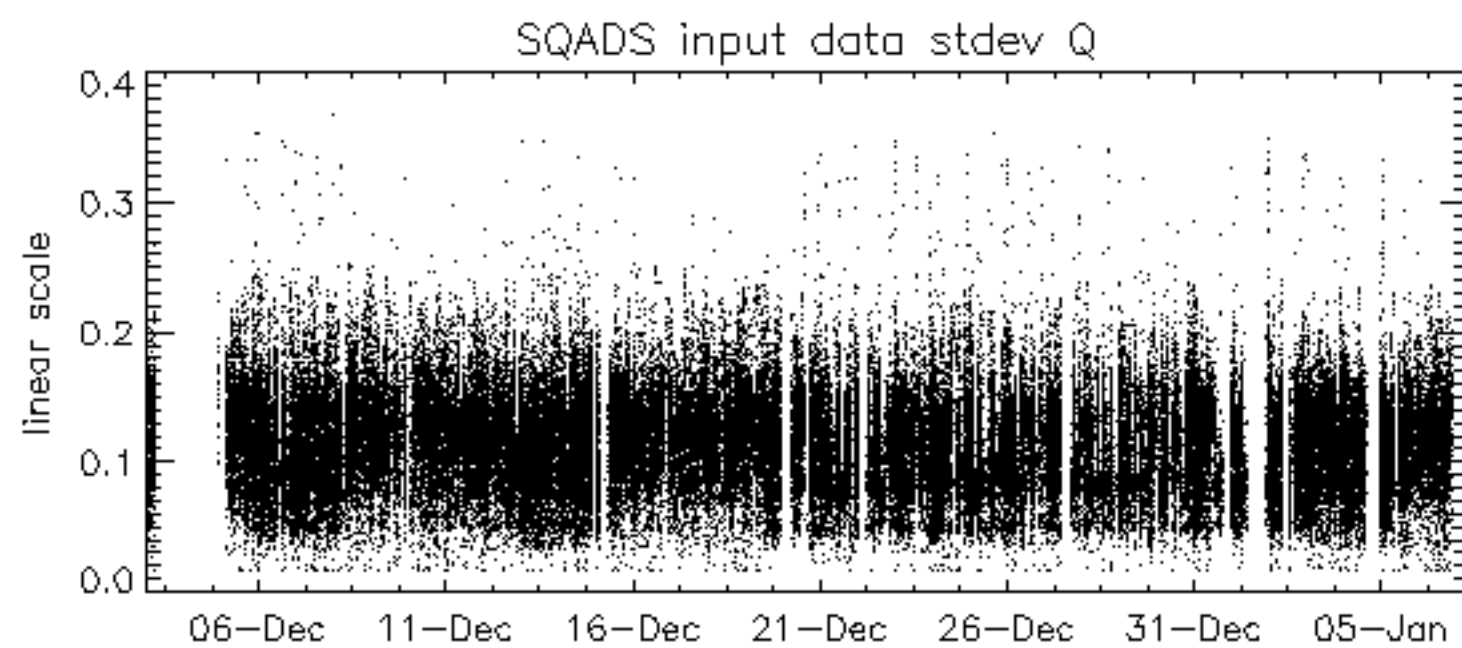
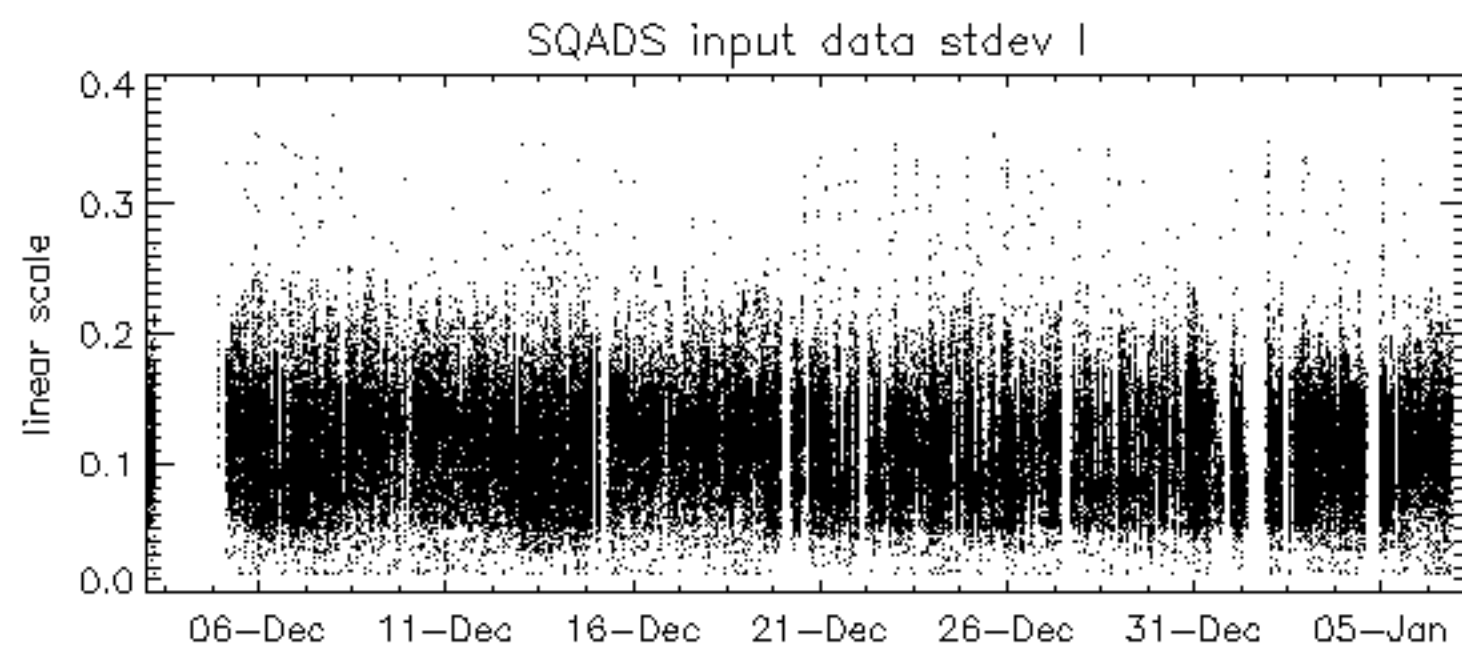
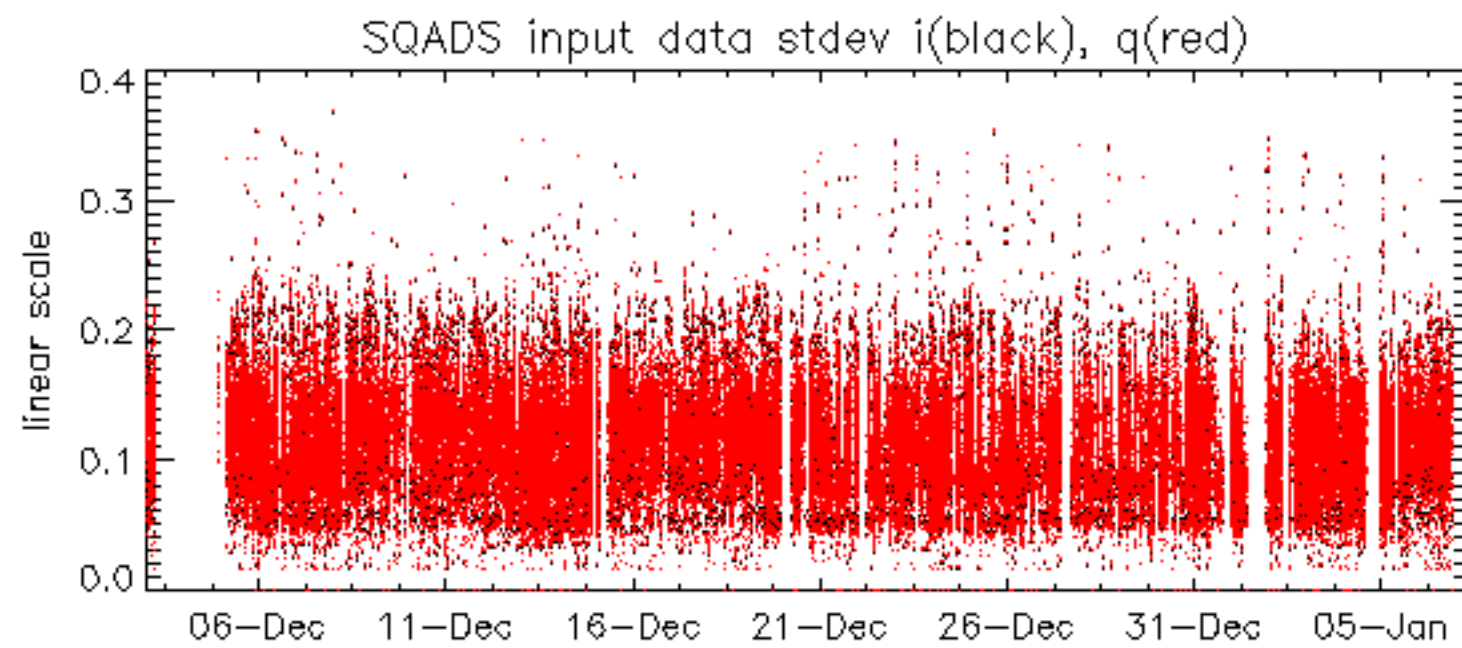






























No unavailabilities during the reported period.