

# PRELIMINARY REPORT OF 040417

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

**last update on Sat Apr 17 12:41:05 GMT 2004**

1. [Introduction](#)
2. [Summary](#)
  - [Instrument Unavailability](#)
  - [Browse Visual Inspection](#)
  - [Module Stepping Results](#)
  - [Data Analysis](#)
3. [Module Stepping](#)
4. [Internal Calibration pulses](#)
  - [Daily statistics \(row 3 and 24\)](#)
  - [Cyclic statistics \(row 3 and 24\)](#)
  - [cal pulses monitoring \(all rows\)](#)
5. [Raw Data Statistics](#)
  - [raw data mean I and Q](#)
  - [raw data stdev I and Q](#)
  - [raw gain imbalance](#)
6. [Wave Doppler analysis](#)
  - [Doppler evolution versus ANX](#)

## 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	20040416 193353
H	20040416 193233

#### 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

⊗

## 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	0.000476731
	stdev	2.37732e-07
MEAN Q	mean	0.000482580
	stdev	2.68647e-07



## 5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.127597
	stdev	0.00118717
STDEV Q	mean	0.127849
	stdev	0.00120082



## 5.3 - Gain imbalance I/Q



## 6 - Doppler Analysis

Preliminary report. The data is not yet controlled

### 6.1 - Unbiased Doppler Error

<b>Evolution of unbiased Doppler error (Real - Expected)</b>
--

Ascending
-----------

Descending
------------

### 6.2 - Absolute Doppler

<b>Evolution of Absolute Doppler</b>
--------------------------------------

Ascending
-----------

Descending
------------

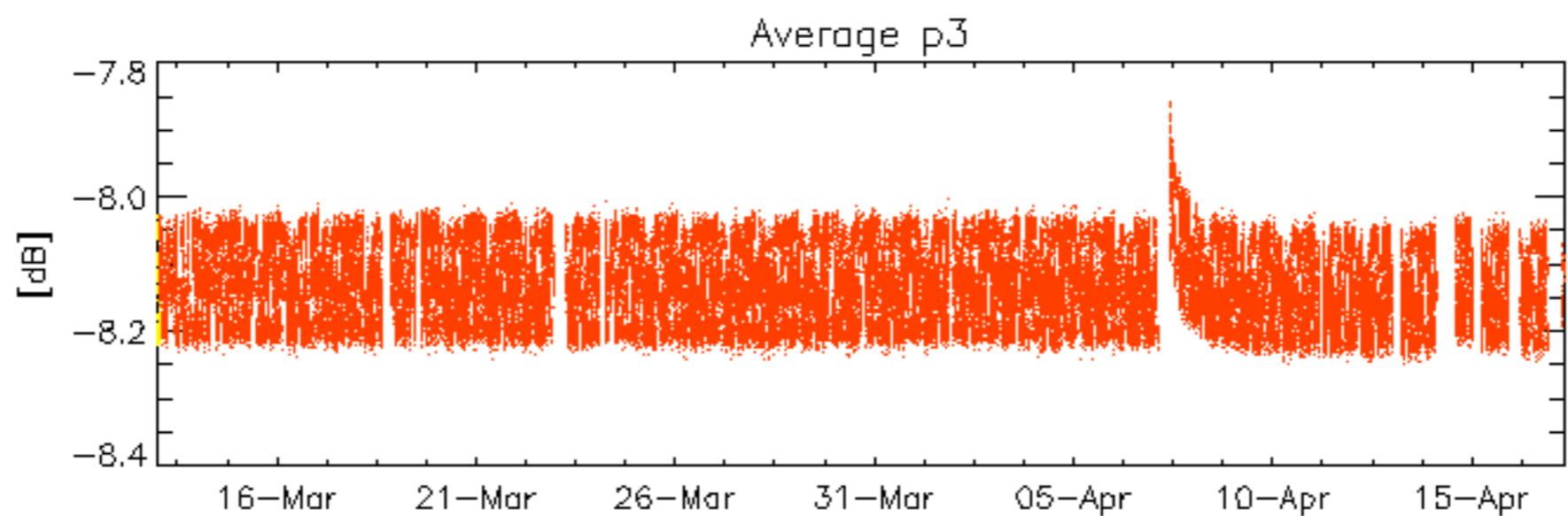
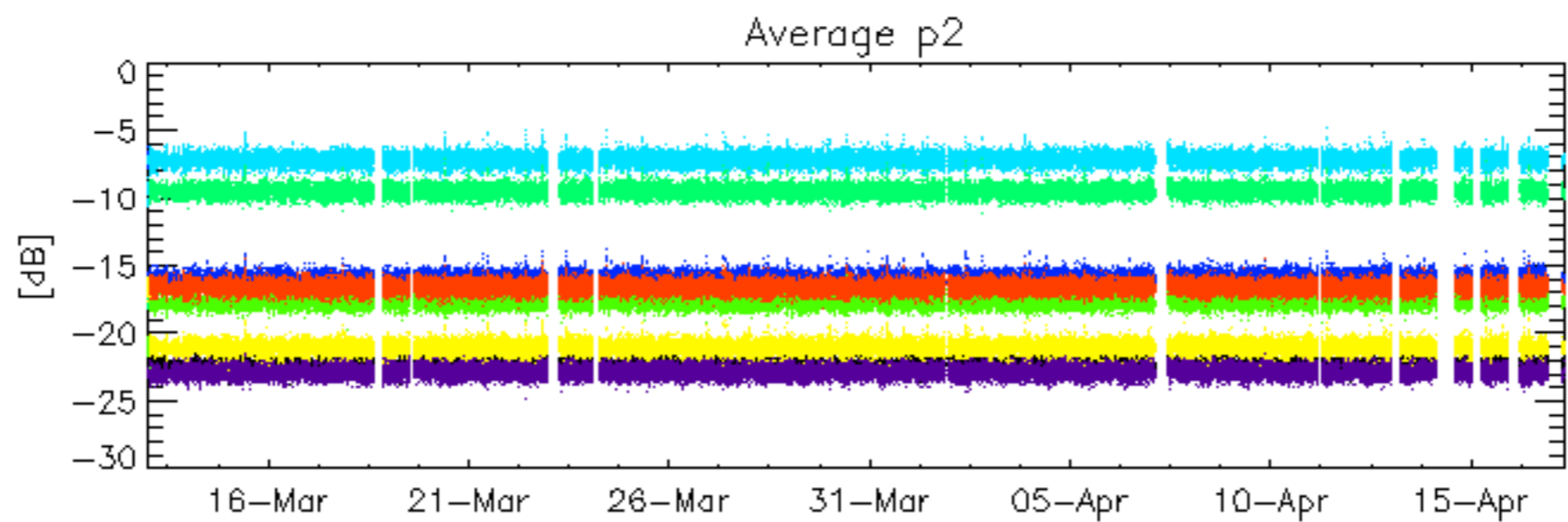
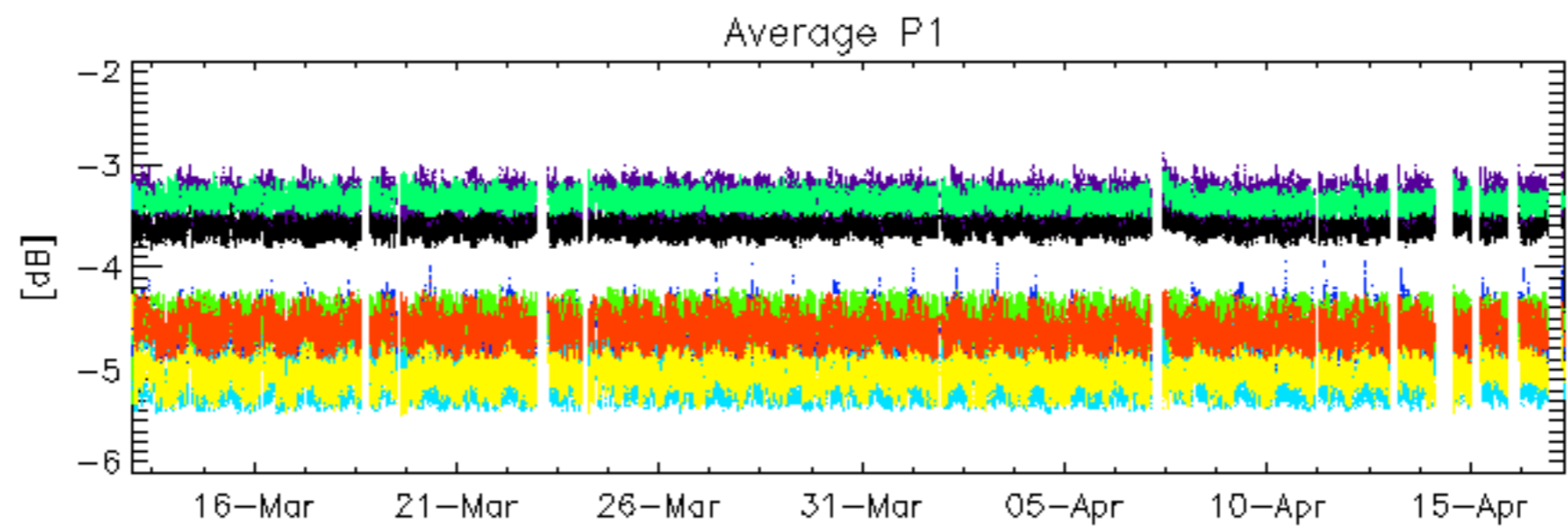
### 6.3 - Doppler evolution versus ANX

<b>Evolution Doppler error versus ANX</b>
---

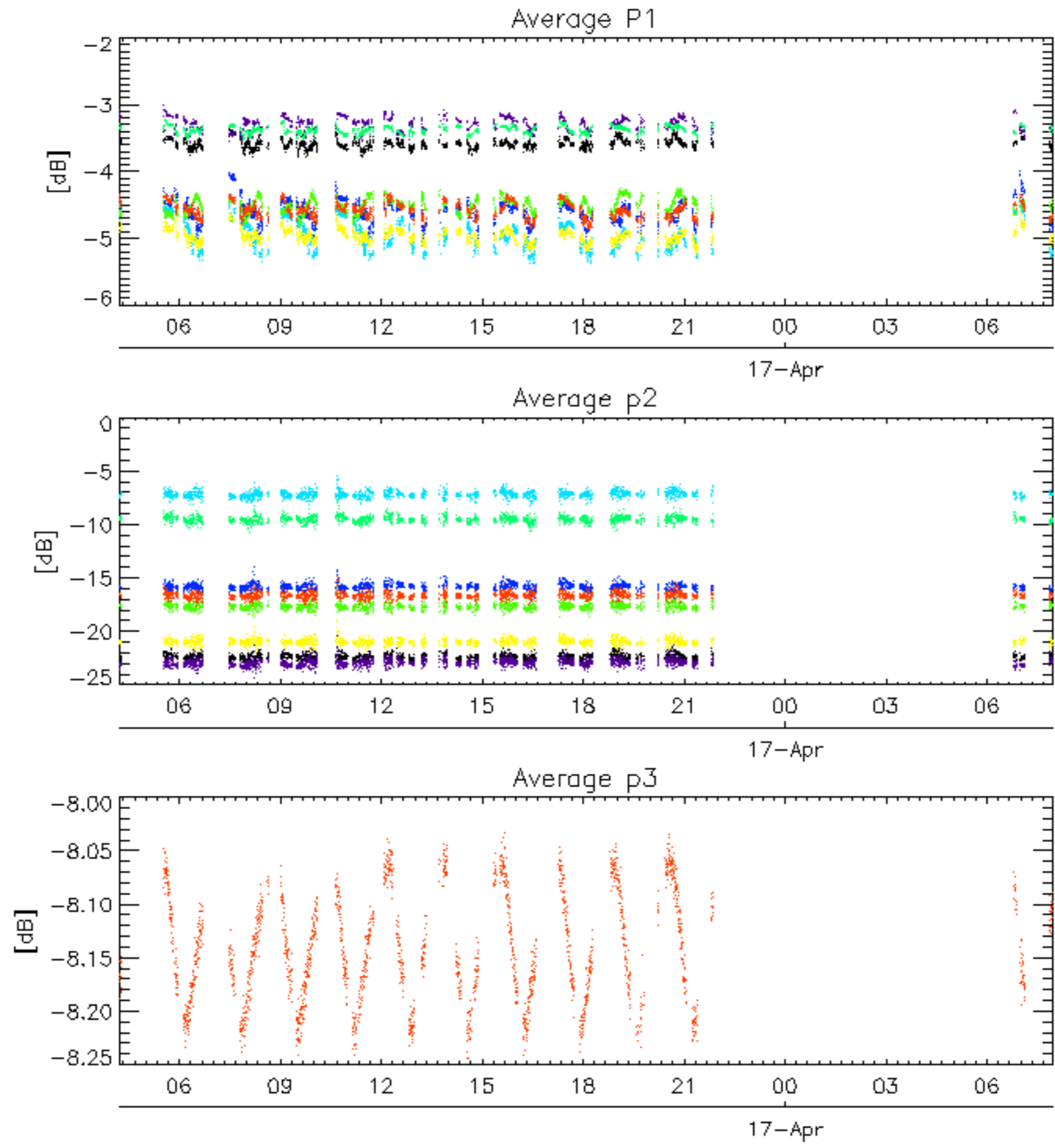


<b>Evolution Doppler error versus ANX</b>
---

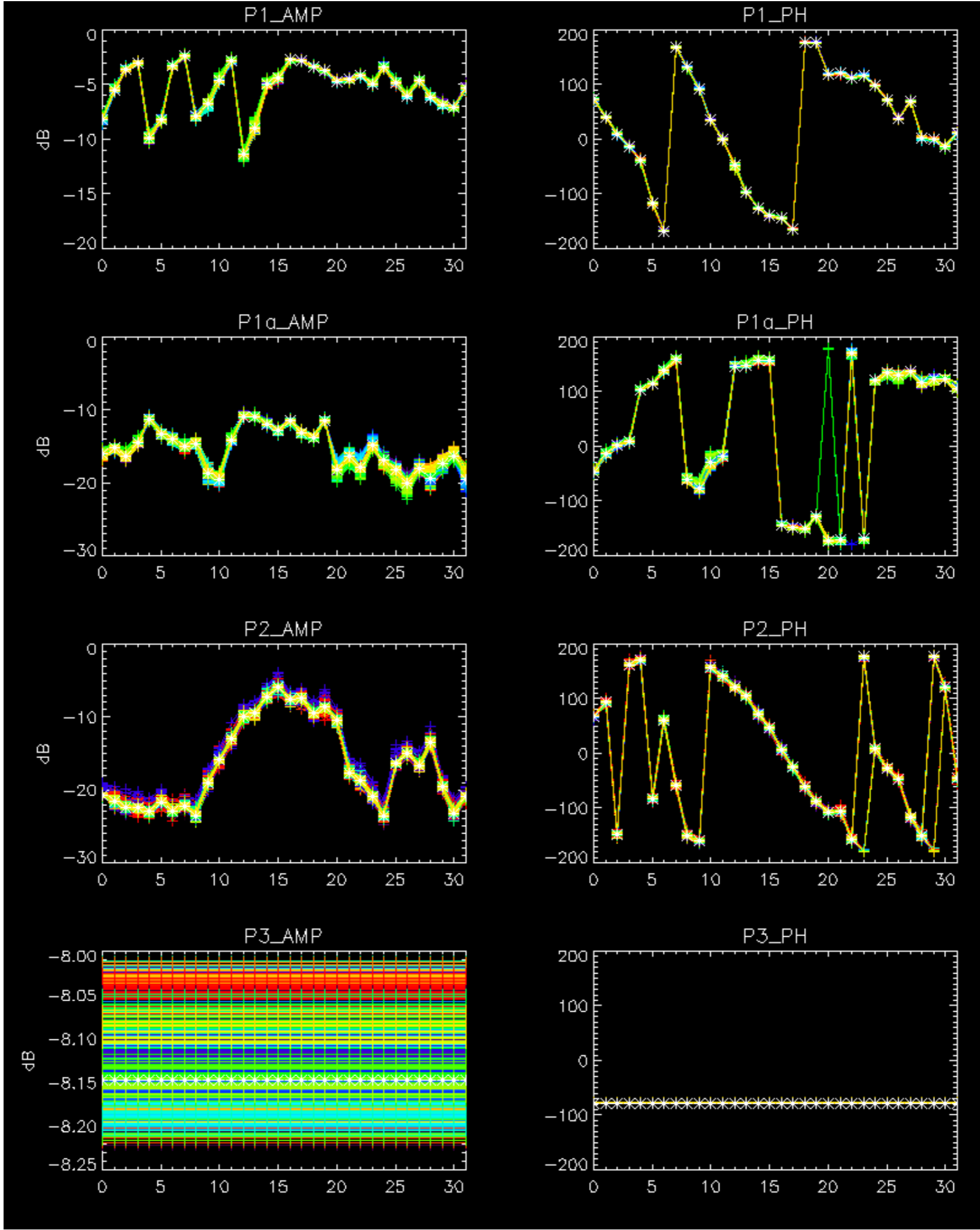




rows: \_ 3 \_ 7 \_ 11 \_ 15 \_ 19 \_ 22 \_ 24 \_ 28



No anomalies observed.

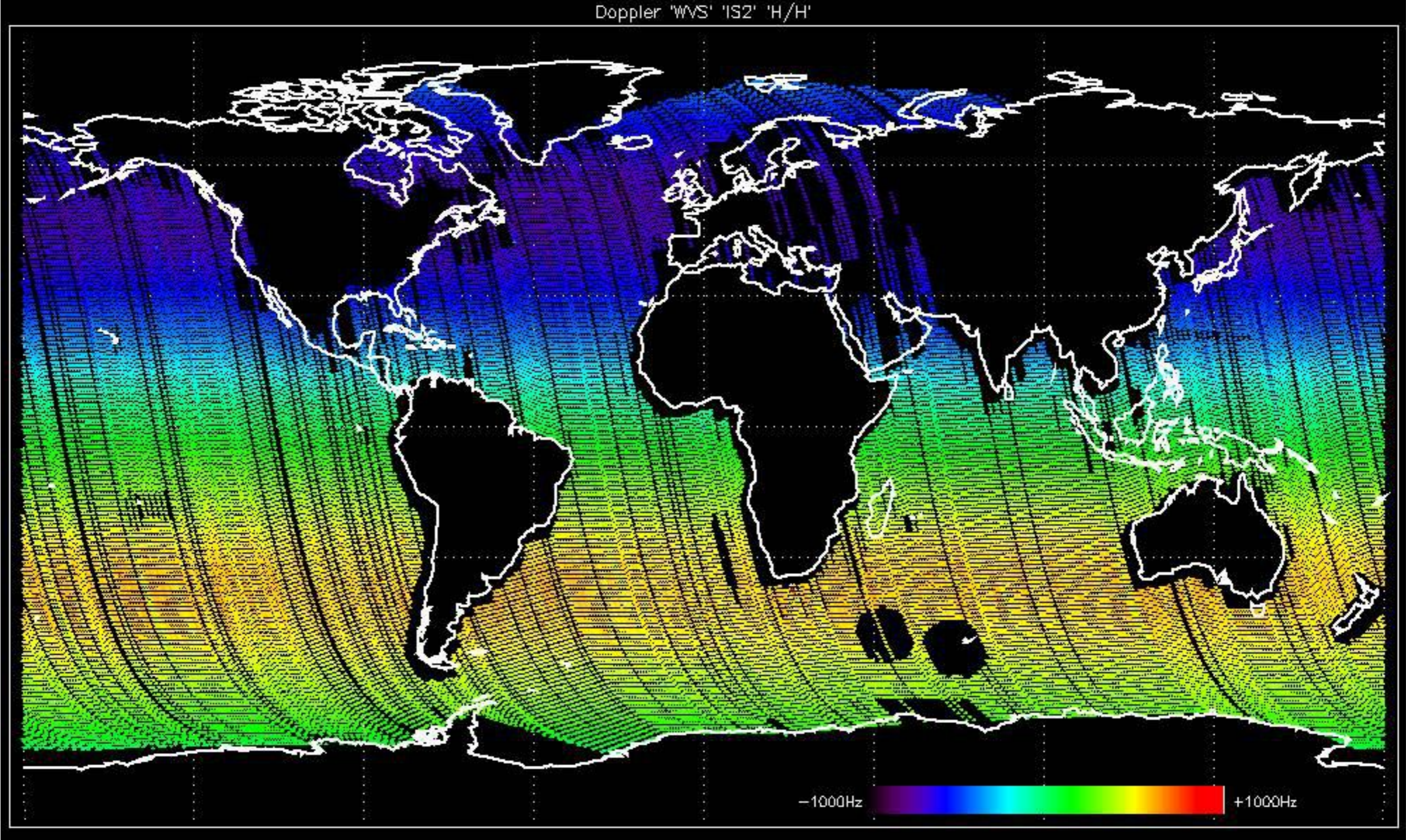




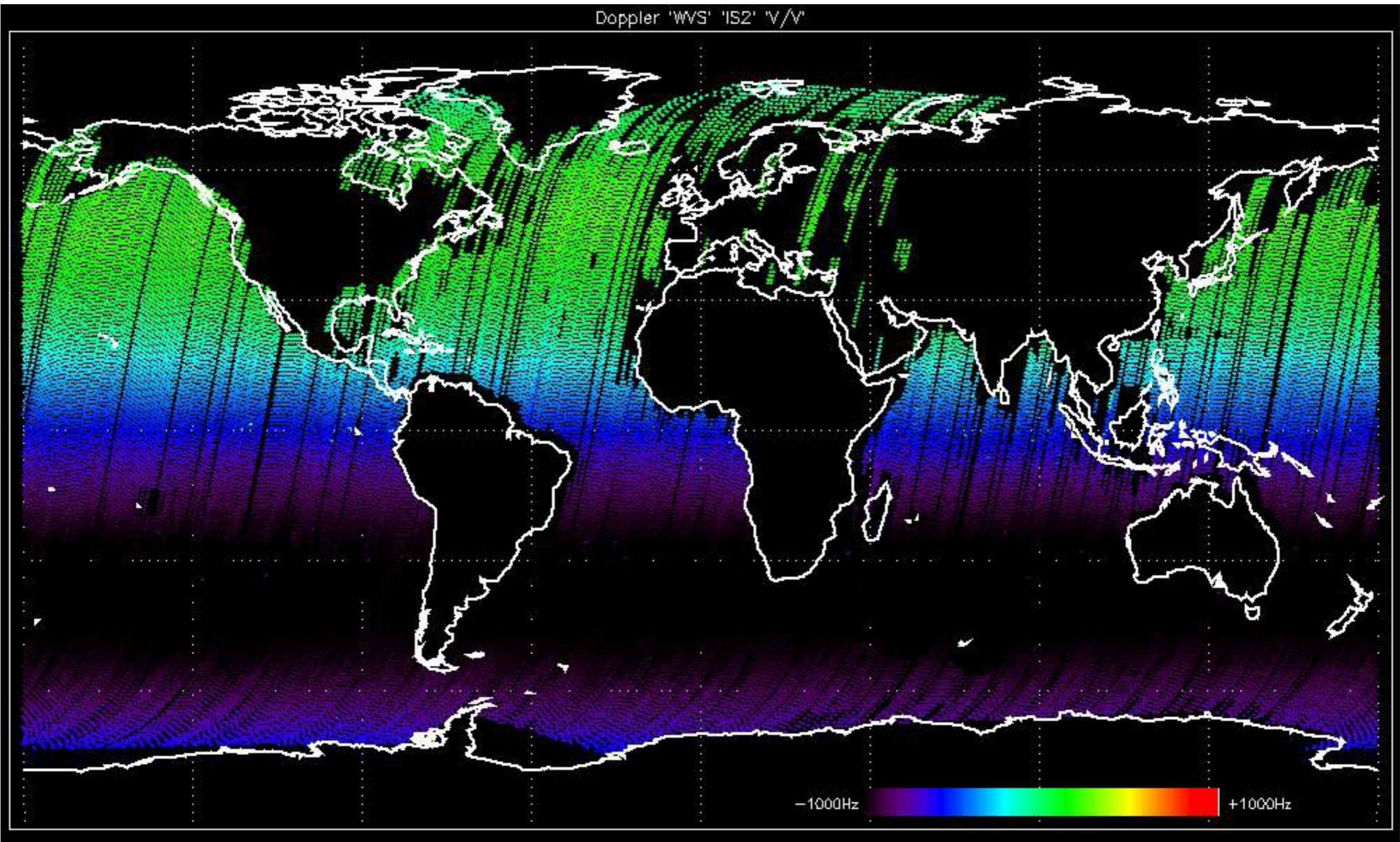
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

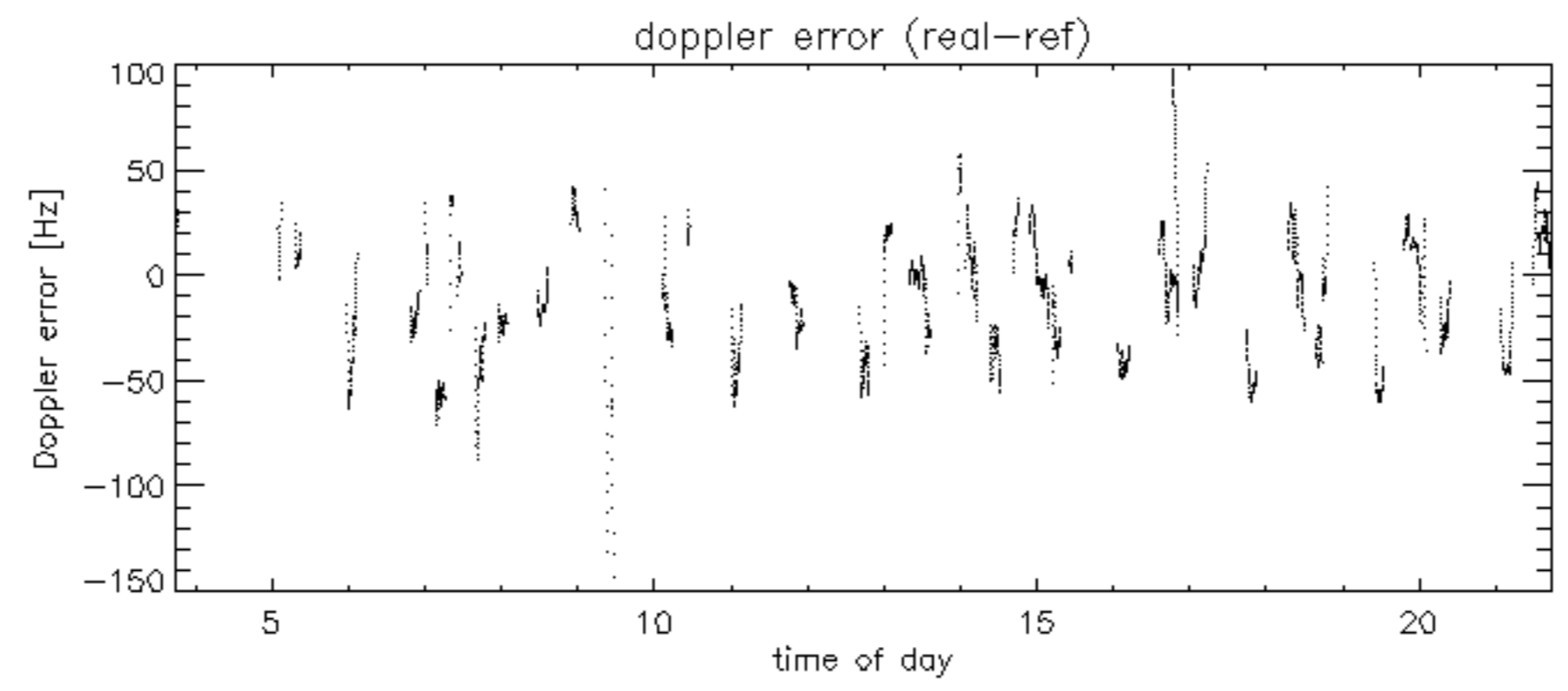
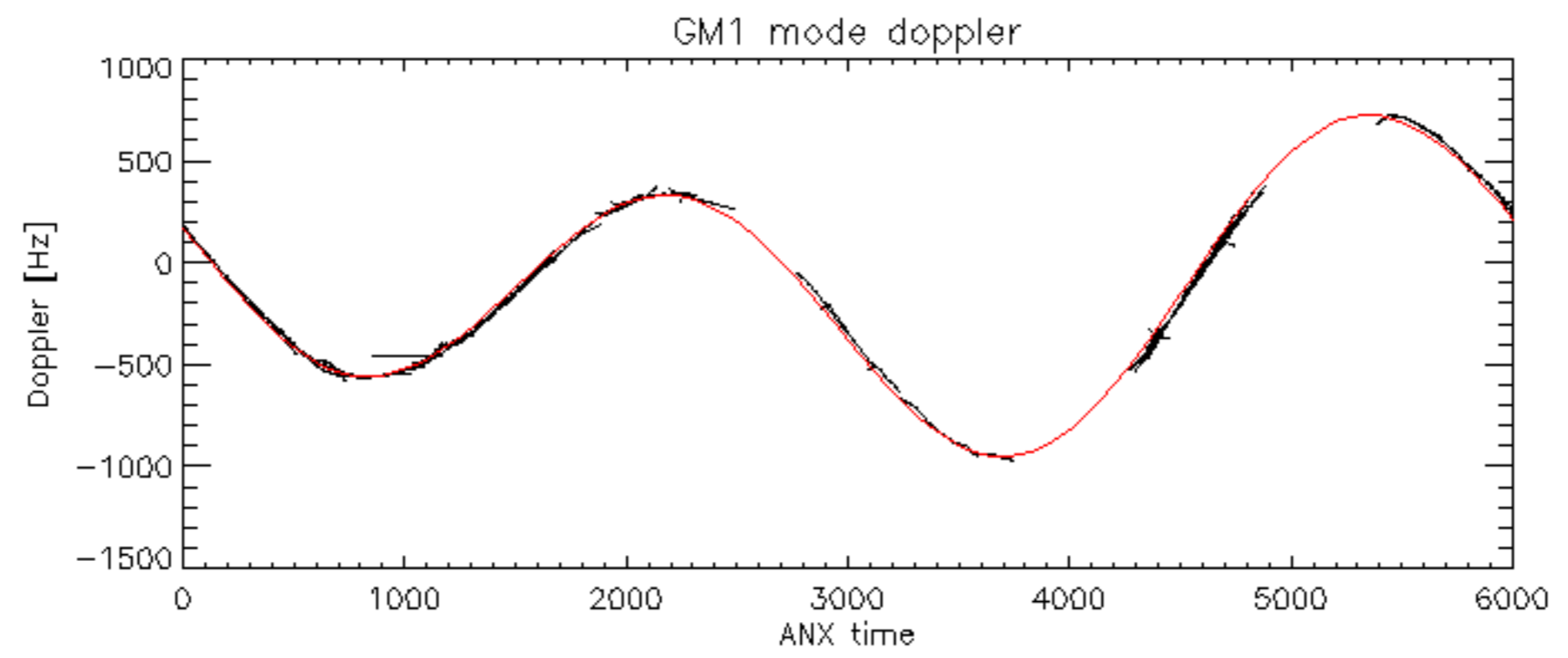


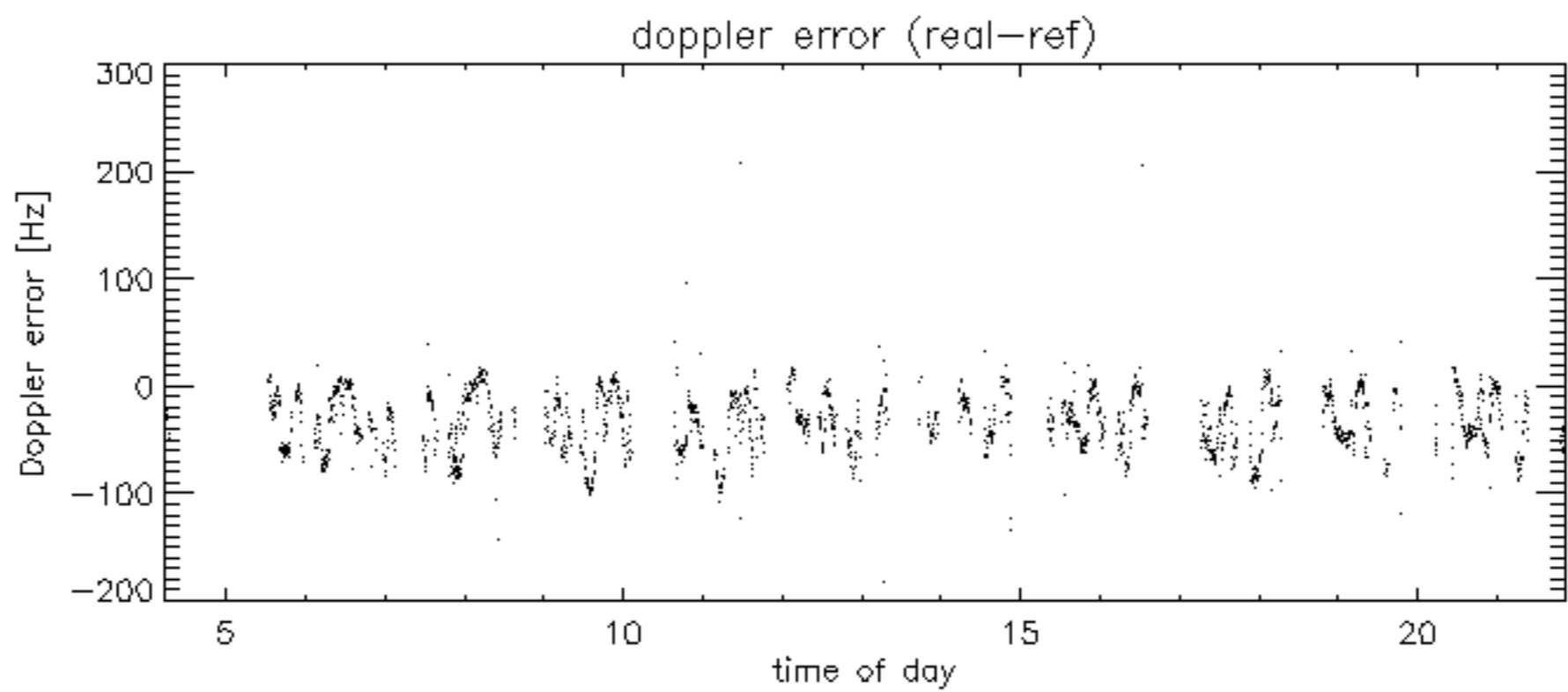
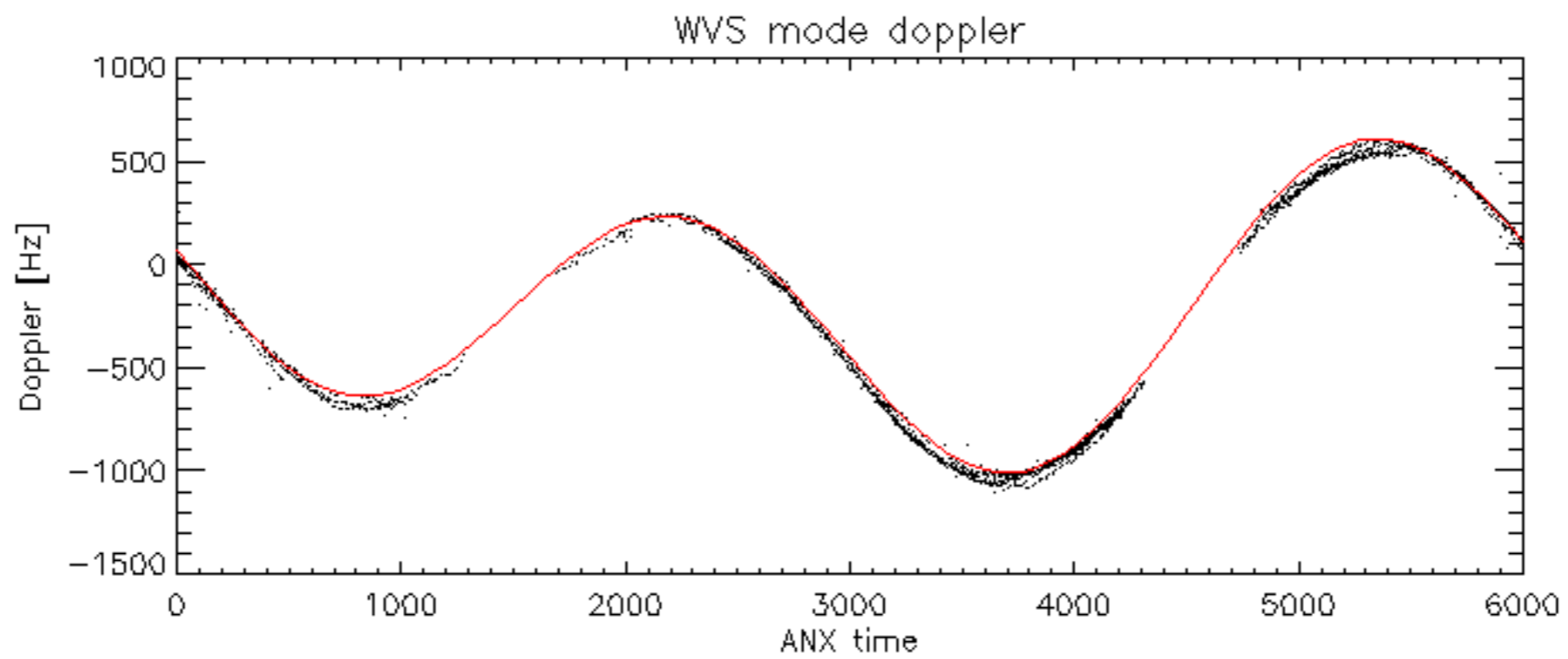
Doppler 'WVS' 'IS2' 'H/H'



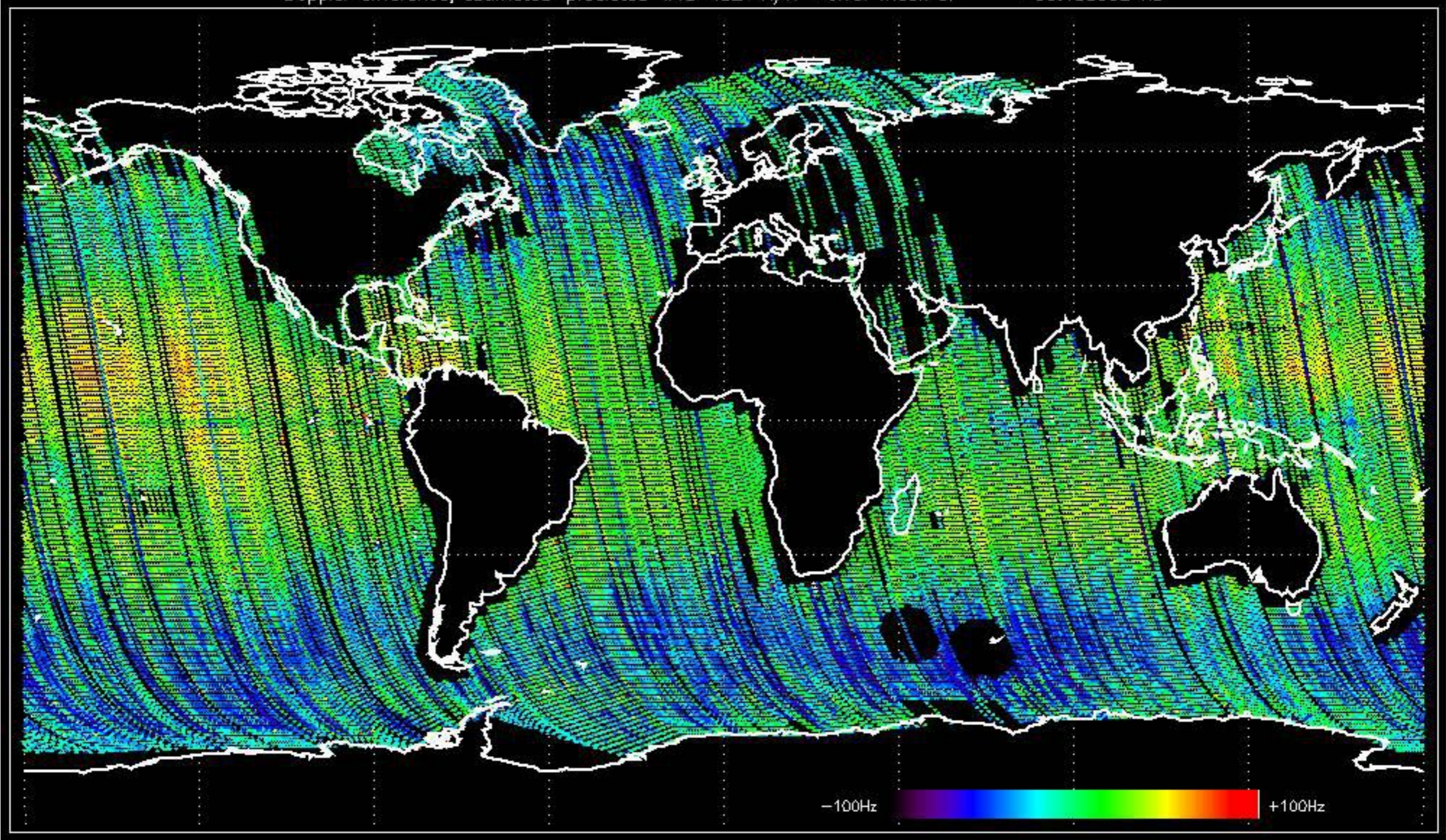
Doppler 'WVS' 'IS2' 'V/V'



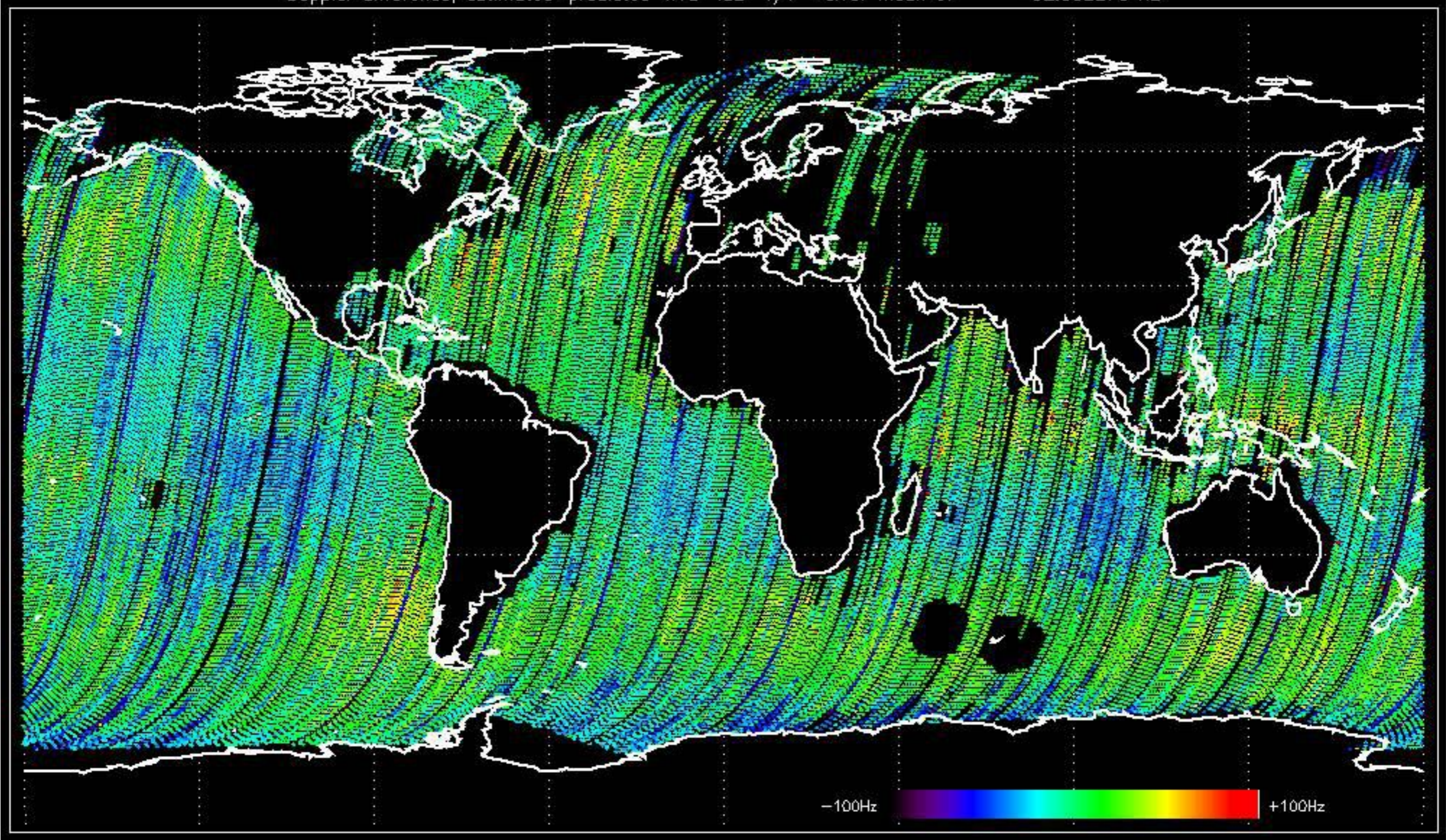




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -36.183052 Hz



Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -32.992276 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.









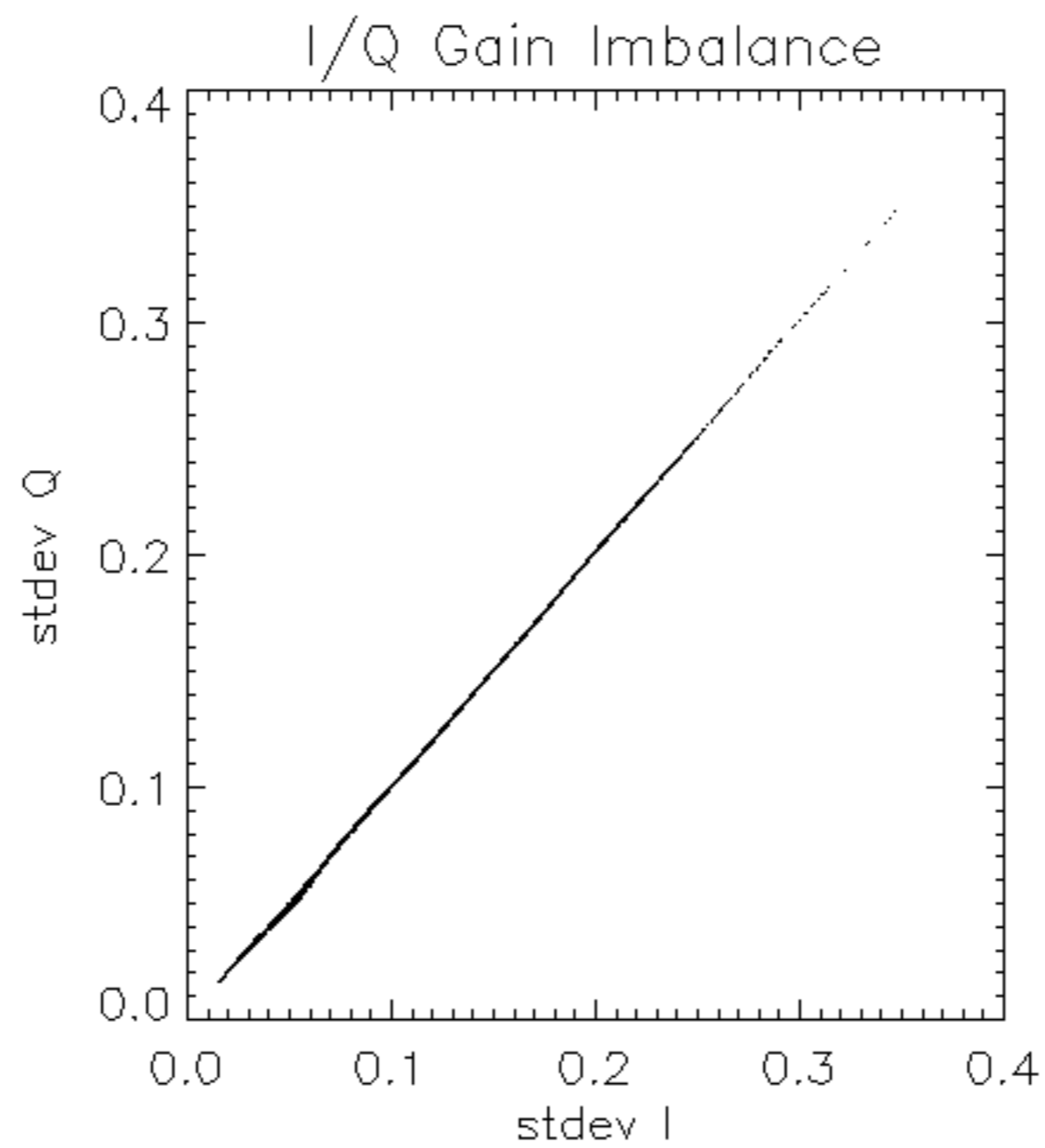


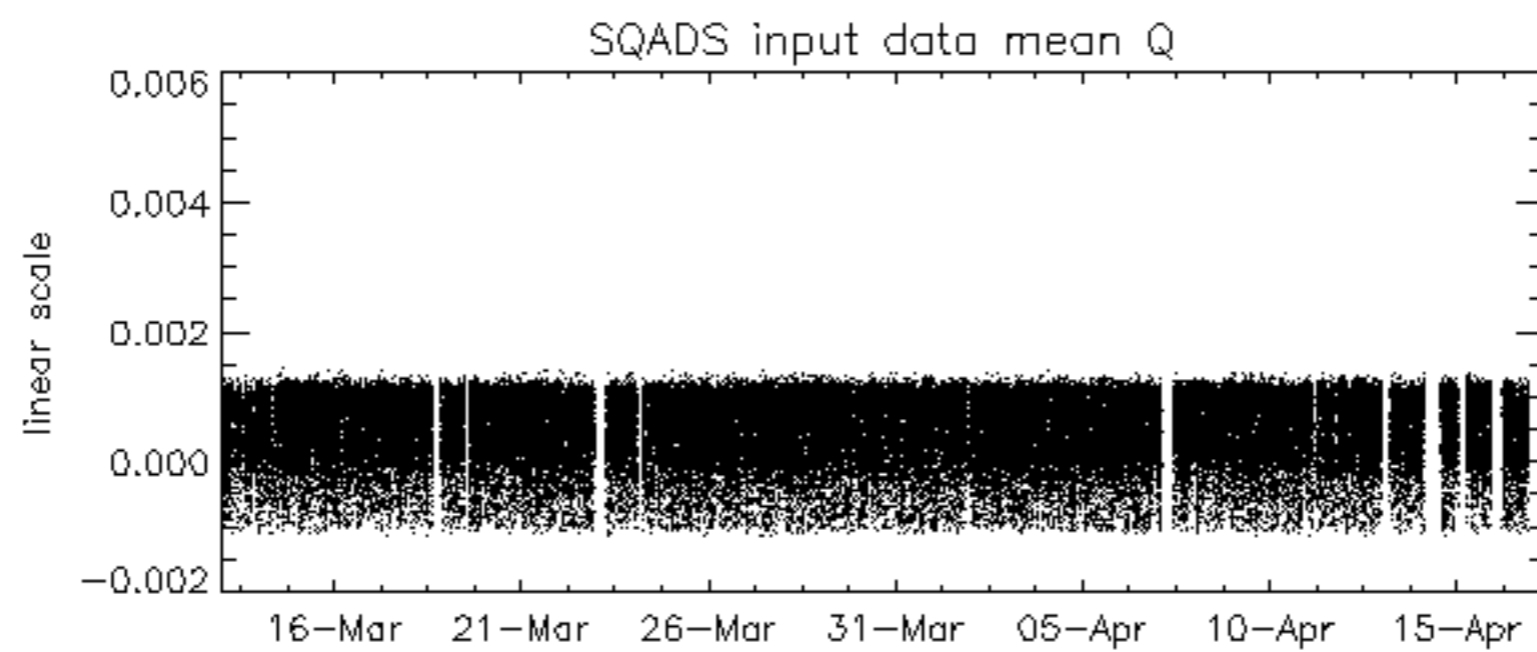
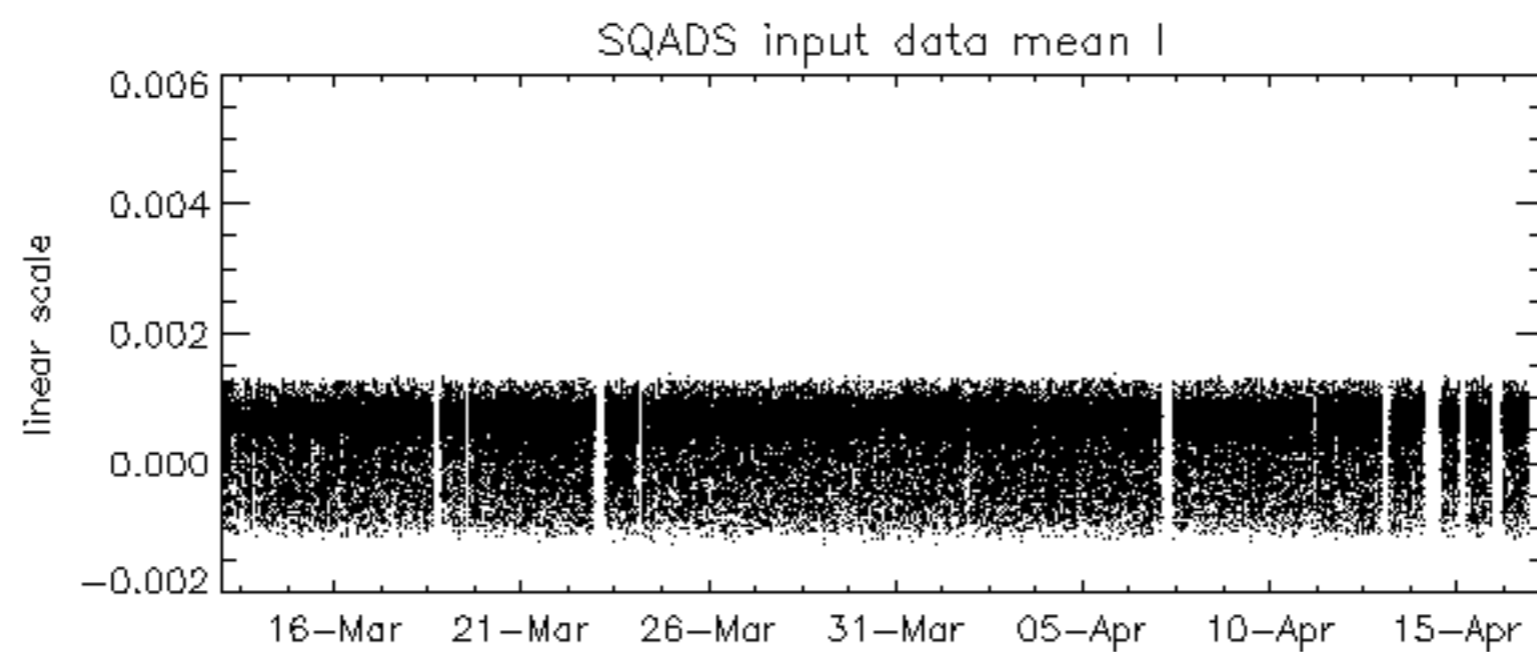
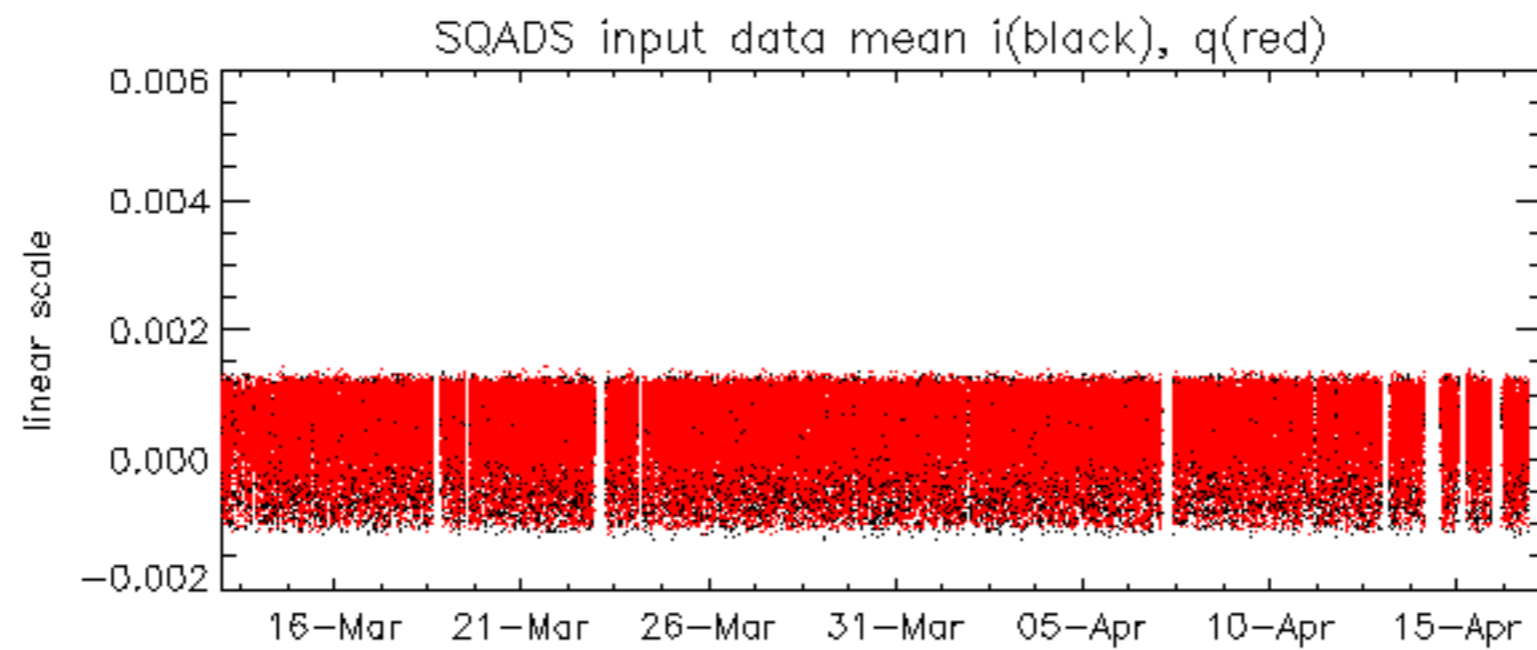


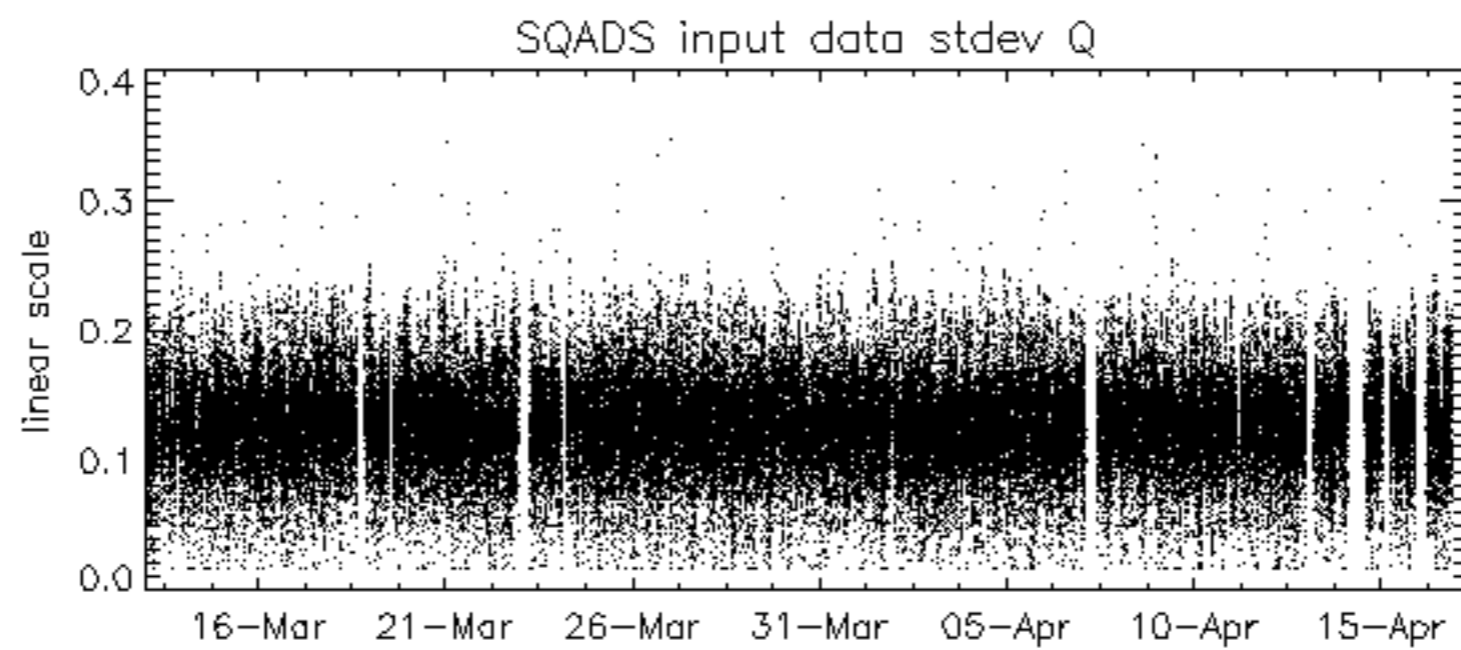
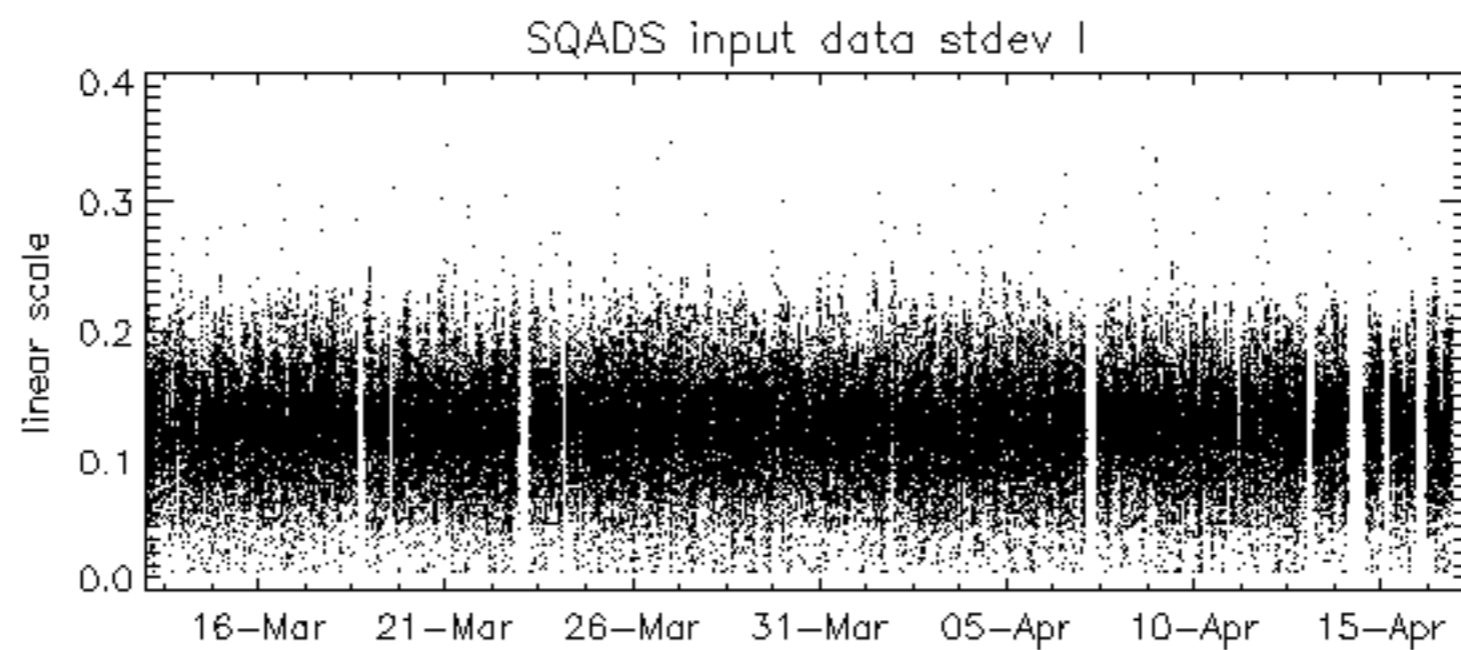
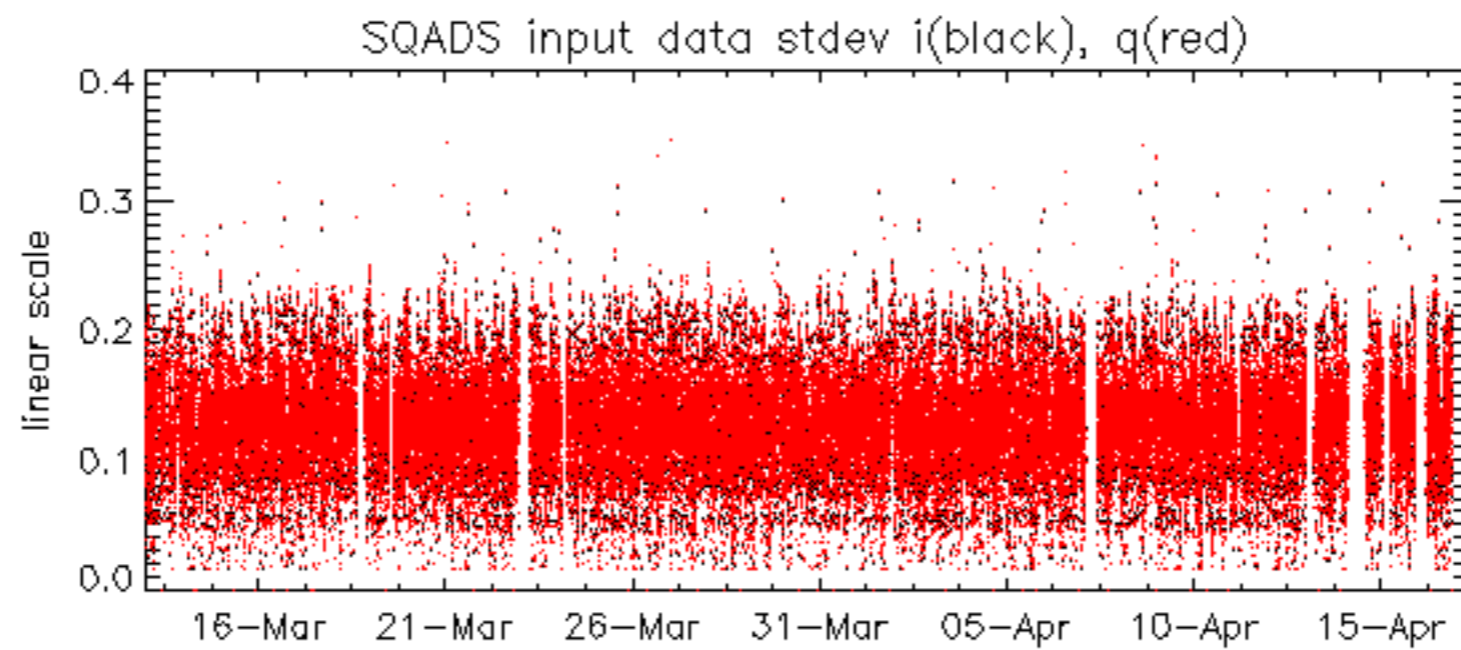






























No unavailabilities during the reported period.