

PRELIMINARY REPORT OF 040408

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

last update on Thu Apr 8 12:40:01 GMT 2004

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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

ASAR unavailable from 07-apr-2004 02:47:33.00 to 07-apr-2004 10:06:06.00.

2.2 - Browse Visual Inspection

No anomalies observed on available browse products.

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 MS products available for 07-apr-2004. Analysis results are from 06-apr-2004 MS acquisitions.

Polarisation	Start Time
V	20040406 194817
H	20040406 194657

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	0.000480568
	stdev	2.34710e-07
MEAN Q	mean	0.000487682
	stdev	2.65116e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.128252
	stdev	0.00118138
STDEV Q	mean	0.128504
	stdev	0.00119522



5.3 - Gain imbalance I/Q



6 - Doppler Analysis

No anomalies observed in Doppler evolution.
Analysis performed over the last 35 days.



6.1 - Unbiased Doppler Error

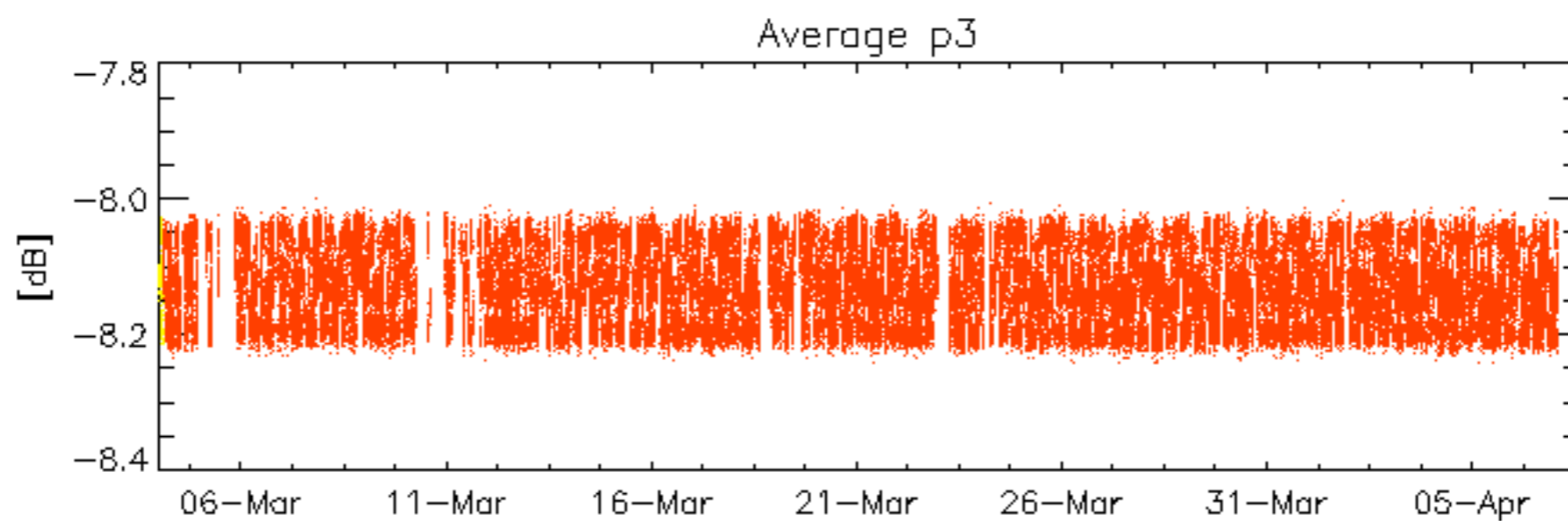
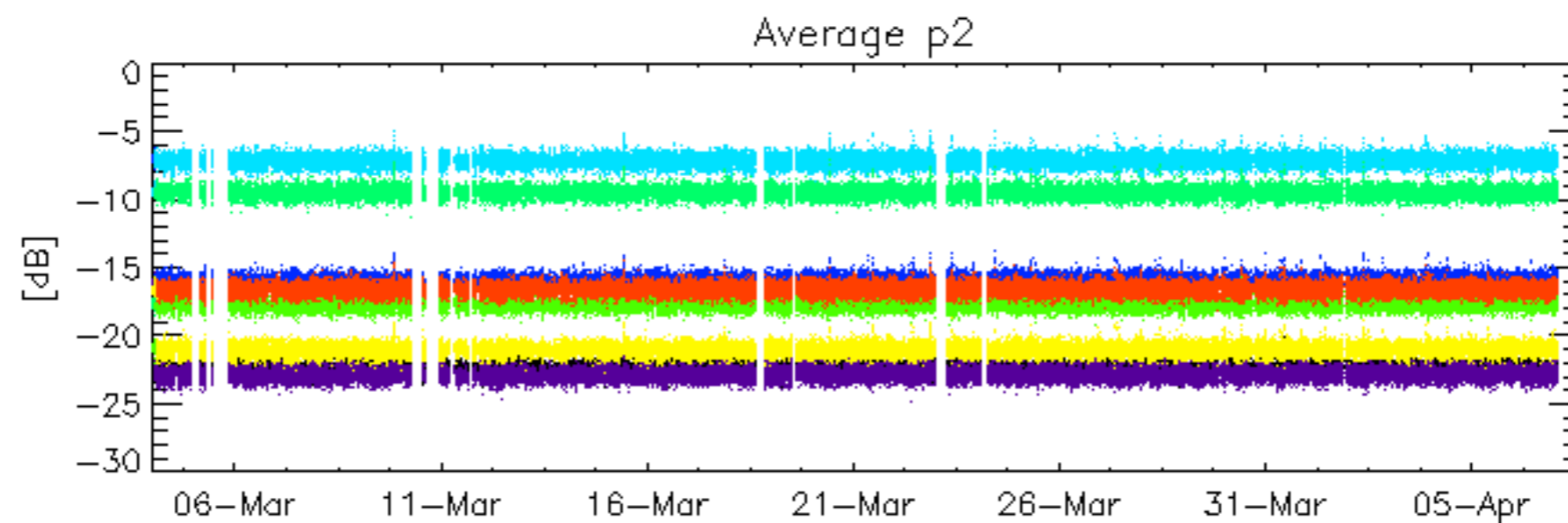
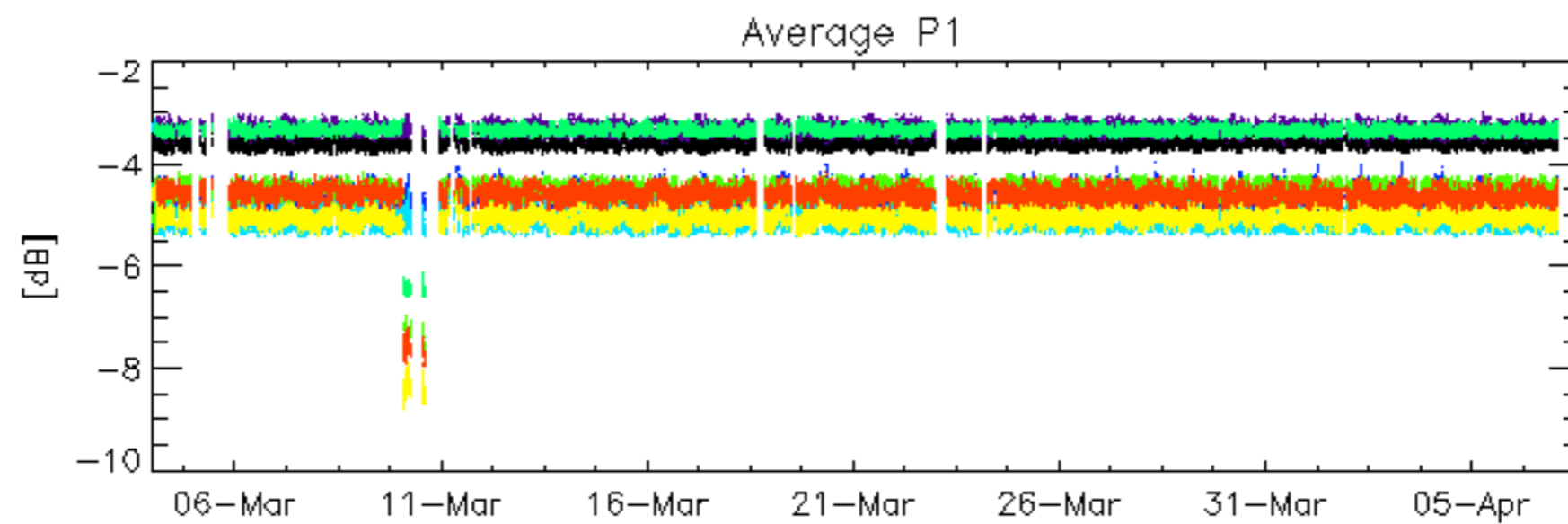
Evolution of unbiased Doppler error (Real - Expected)
Ascending
Descending

6.2 - Absolute Doppler

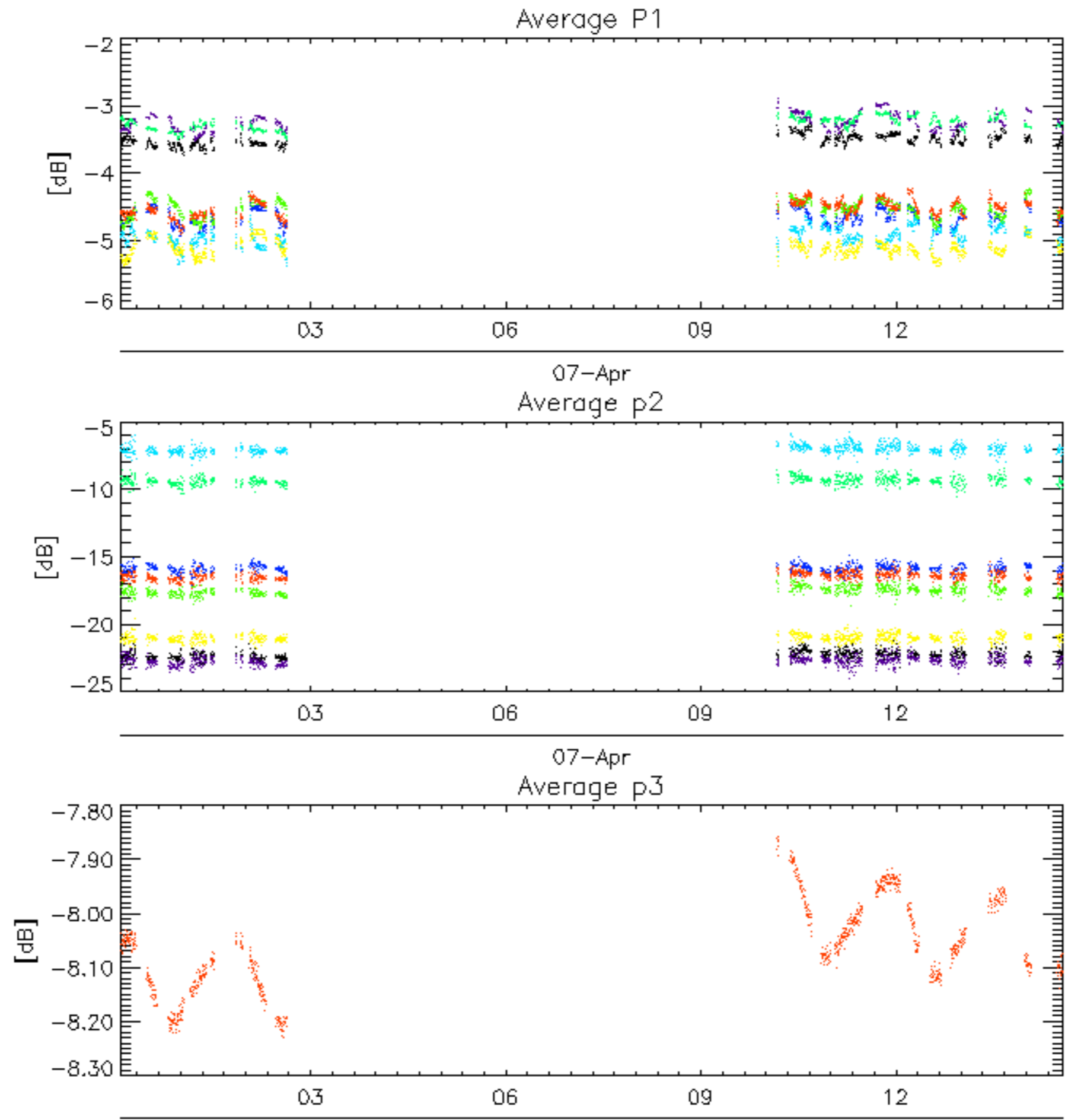
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX

Evolution Doppler error versus ANX




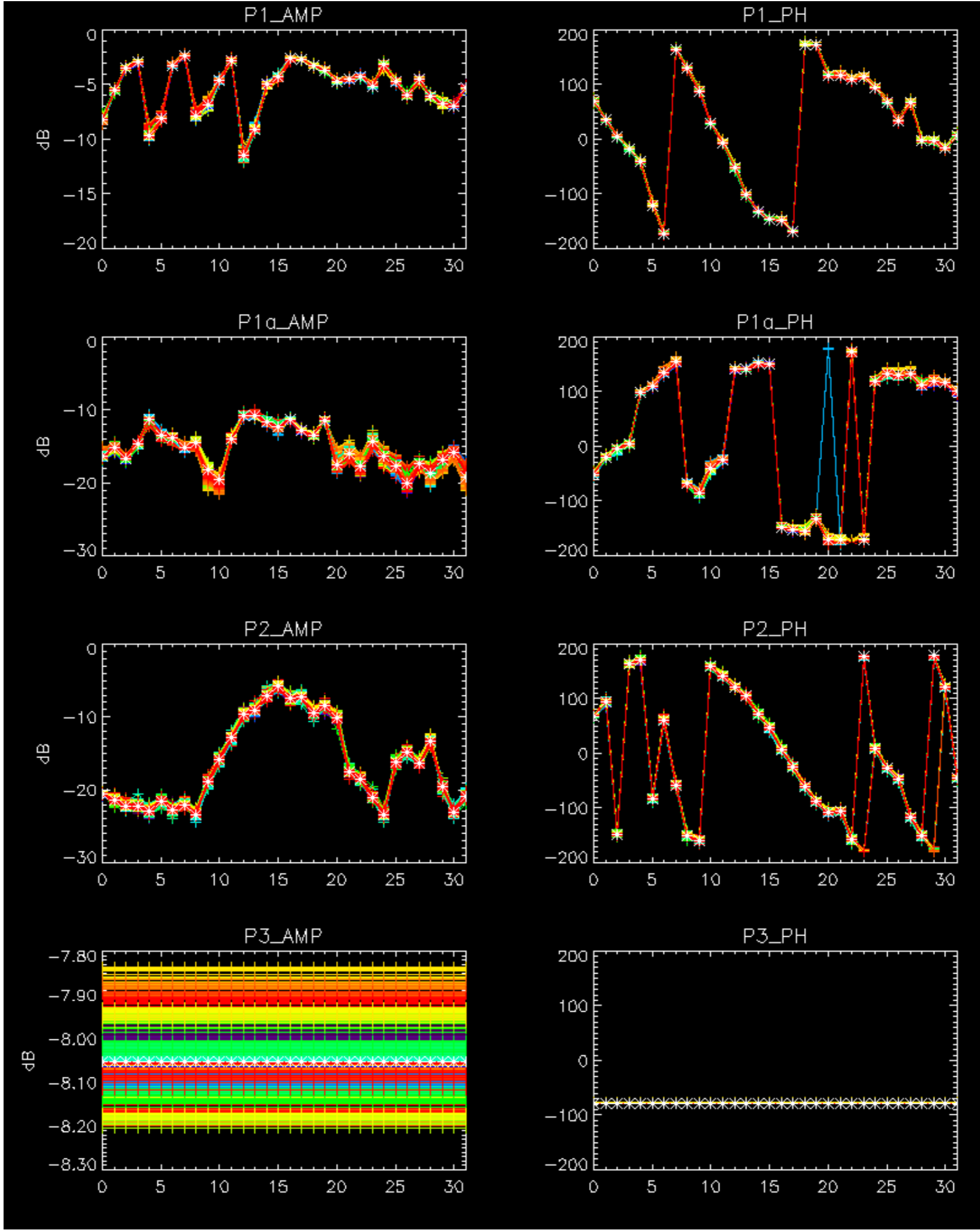
rows: **3** **7** **11** **15** **19** **22** **24** **28**



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

No anomalies observed on available browse products.

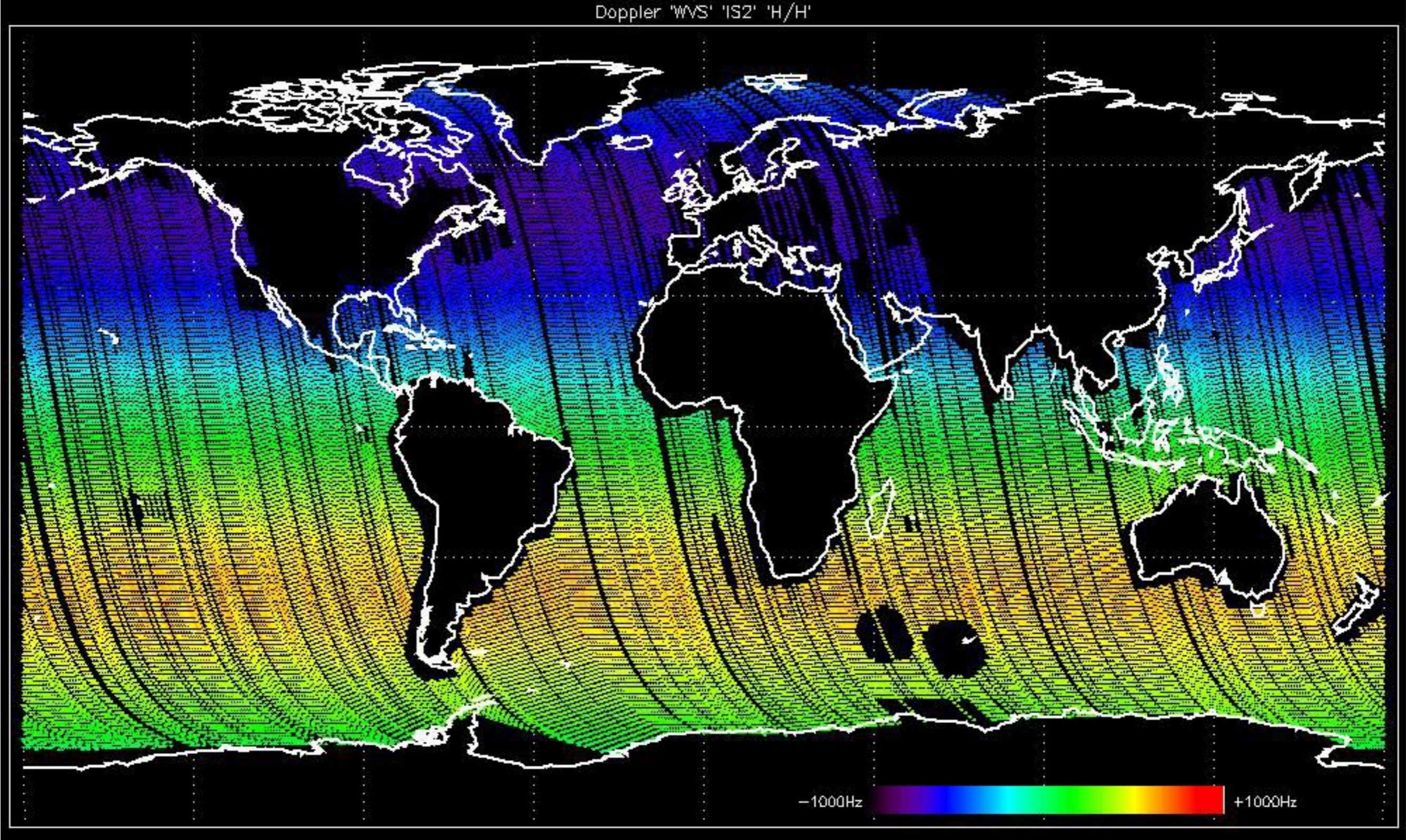
No anomalies observed.



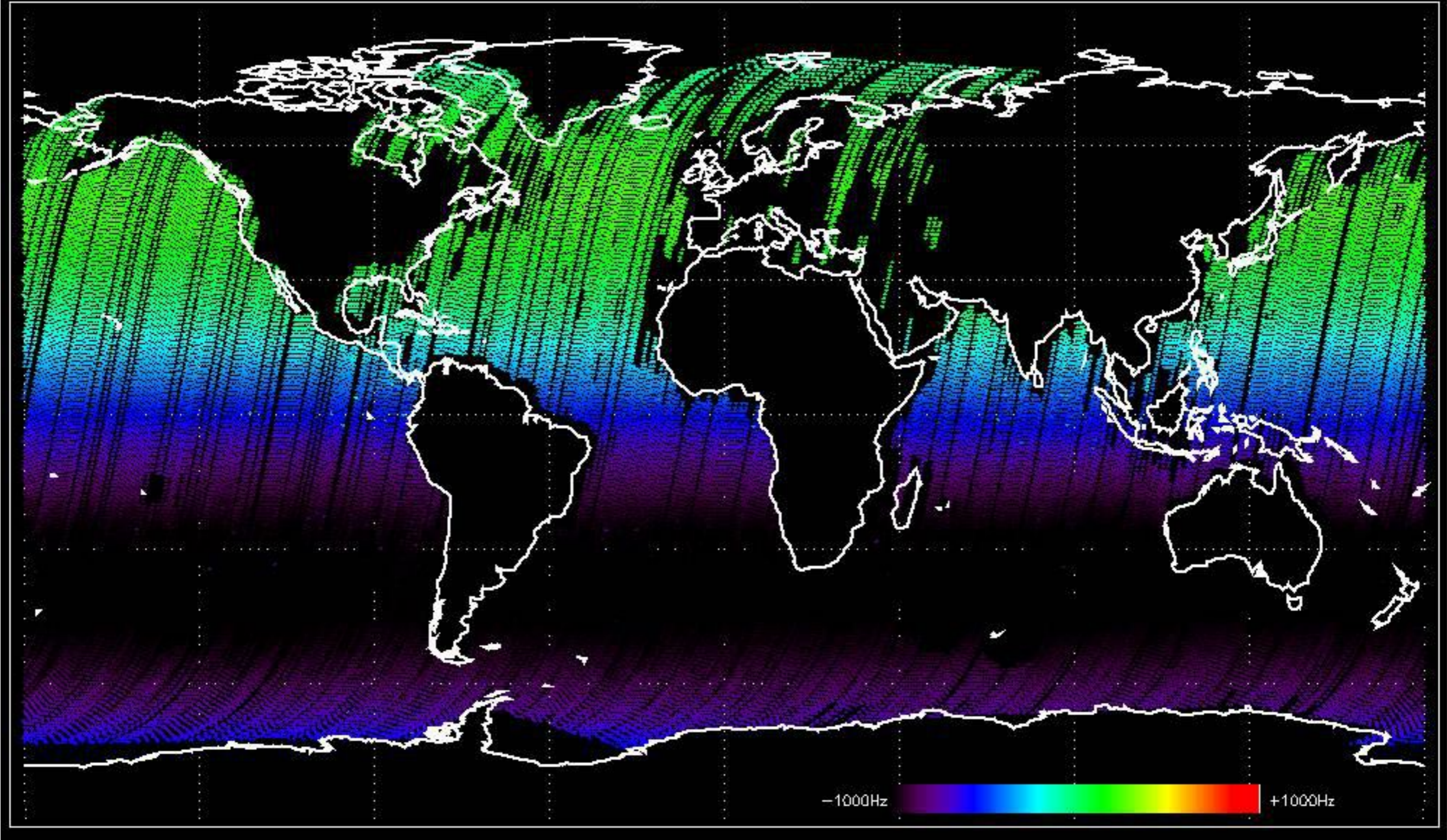
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

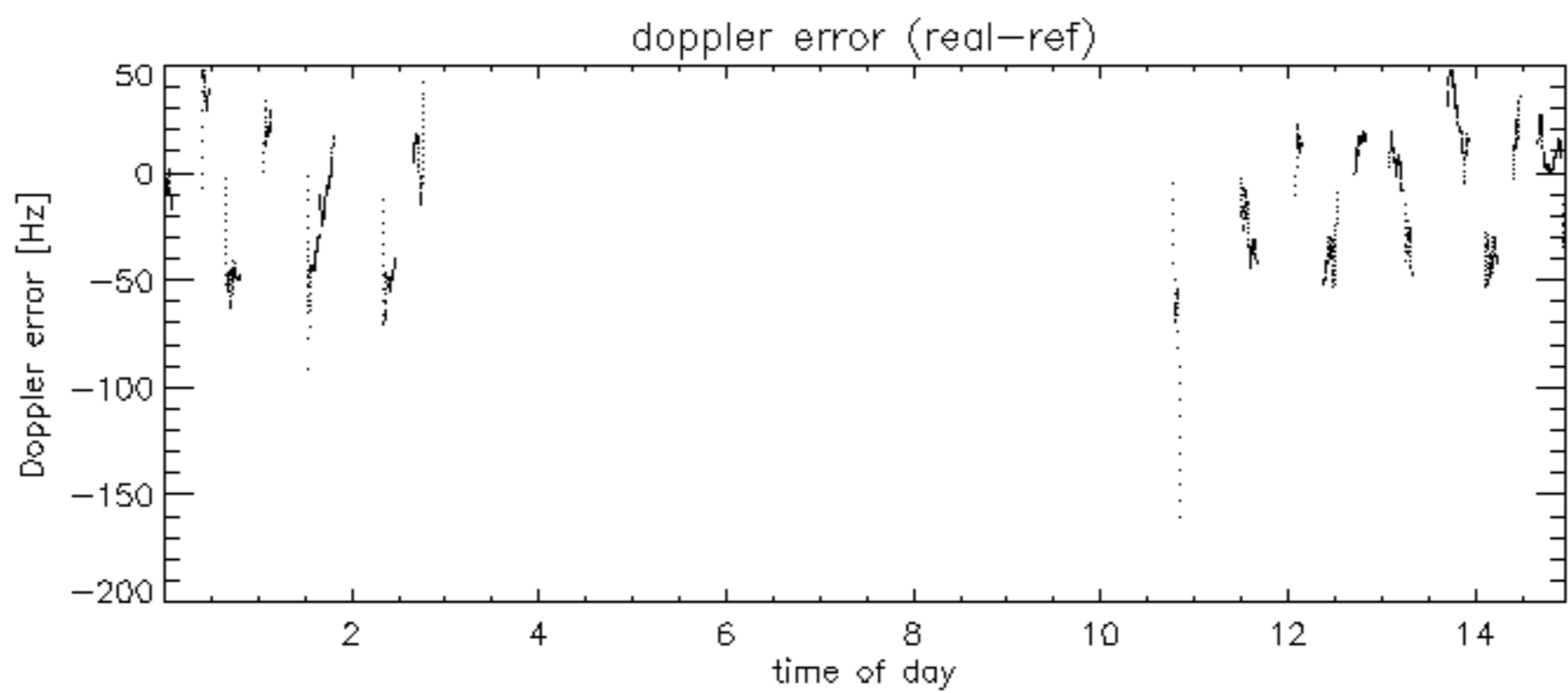
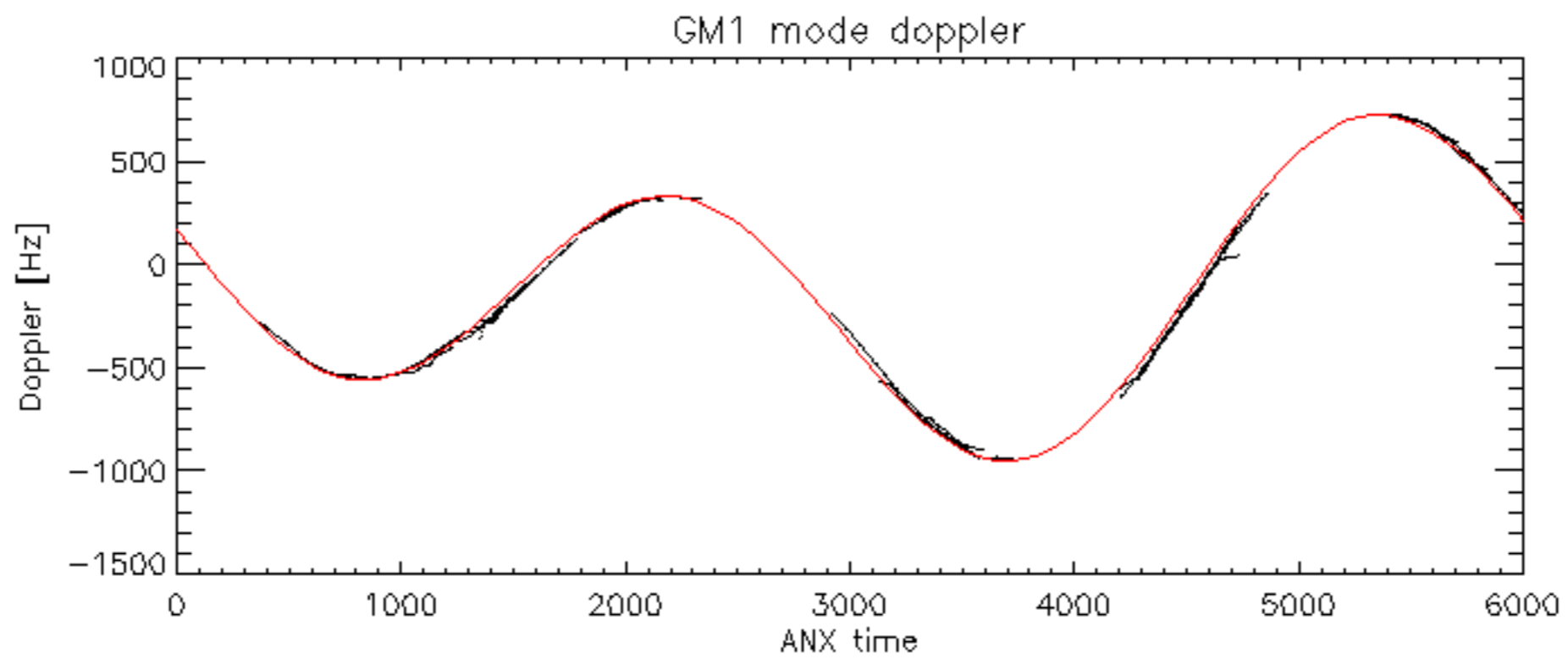
No anomalies observed in Doppler evolution.
Analysis performed over the last 35 days.

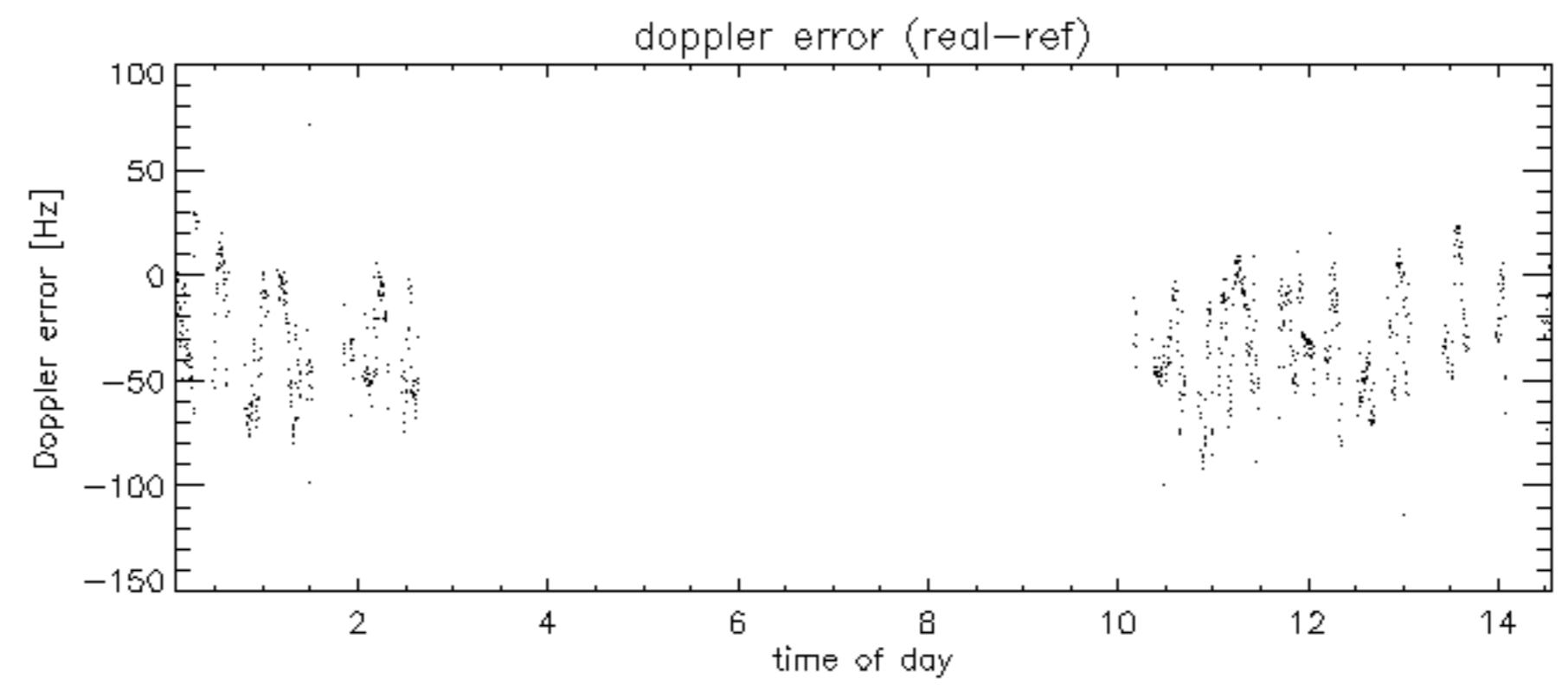
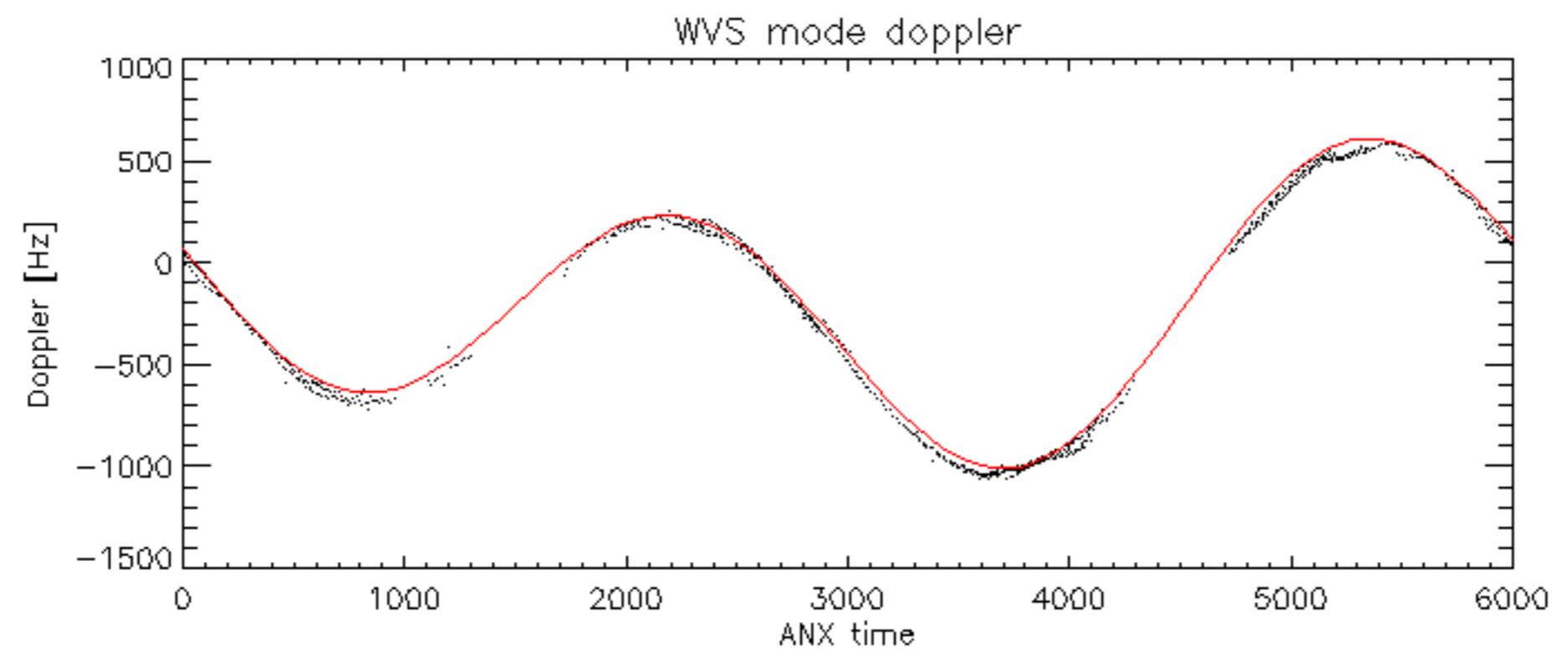
Doppler 'WVS' 'IS2' 'H/H'



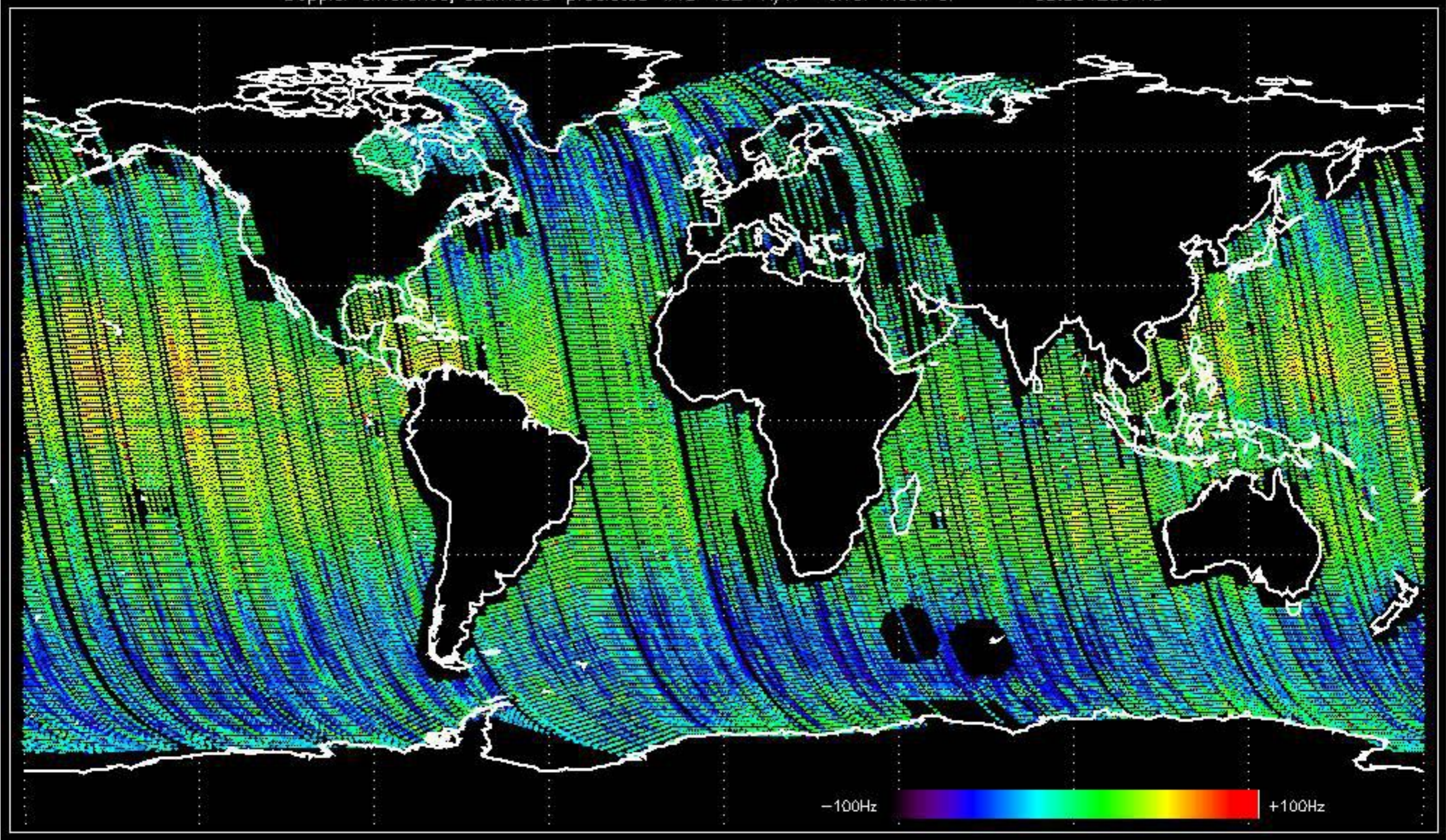
Doppler 'WVS' 'ISZ' 'V/V'



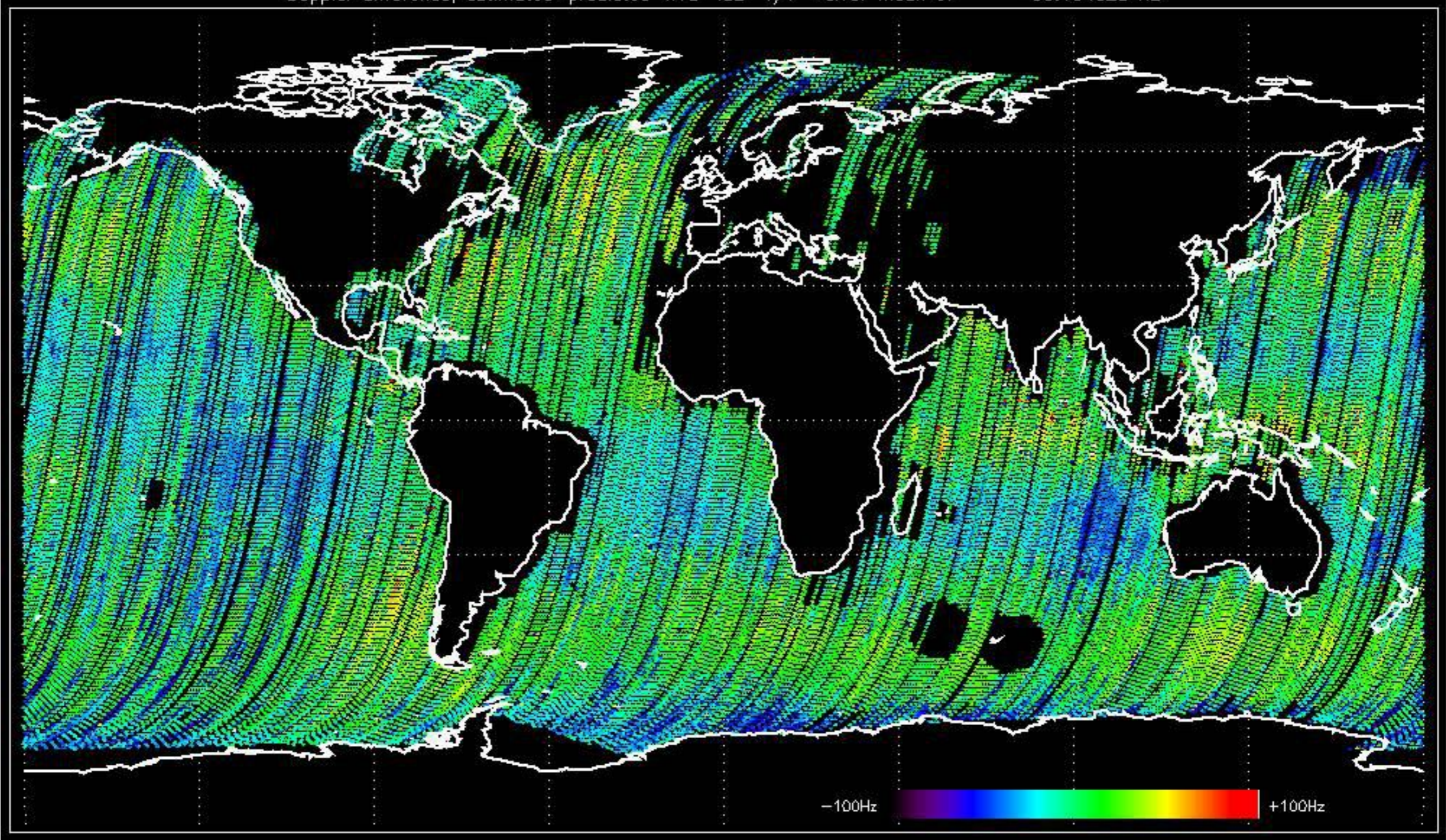




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -33.564289 Hz

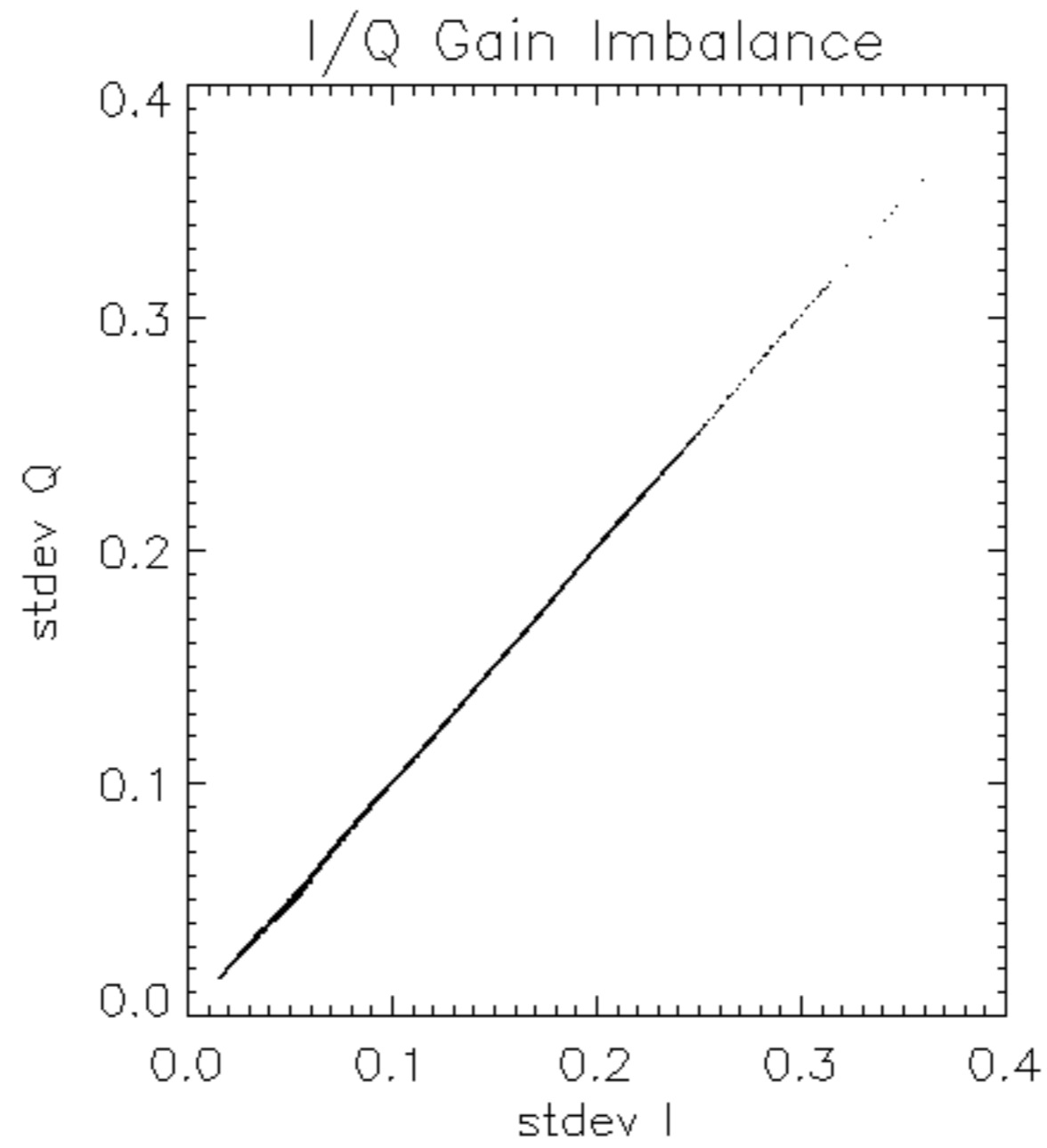


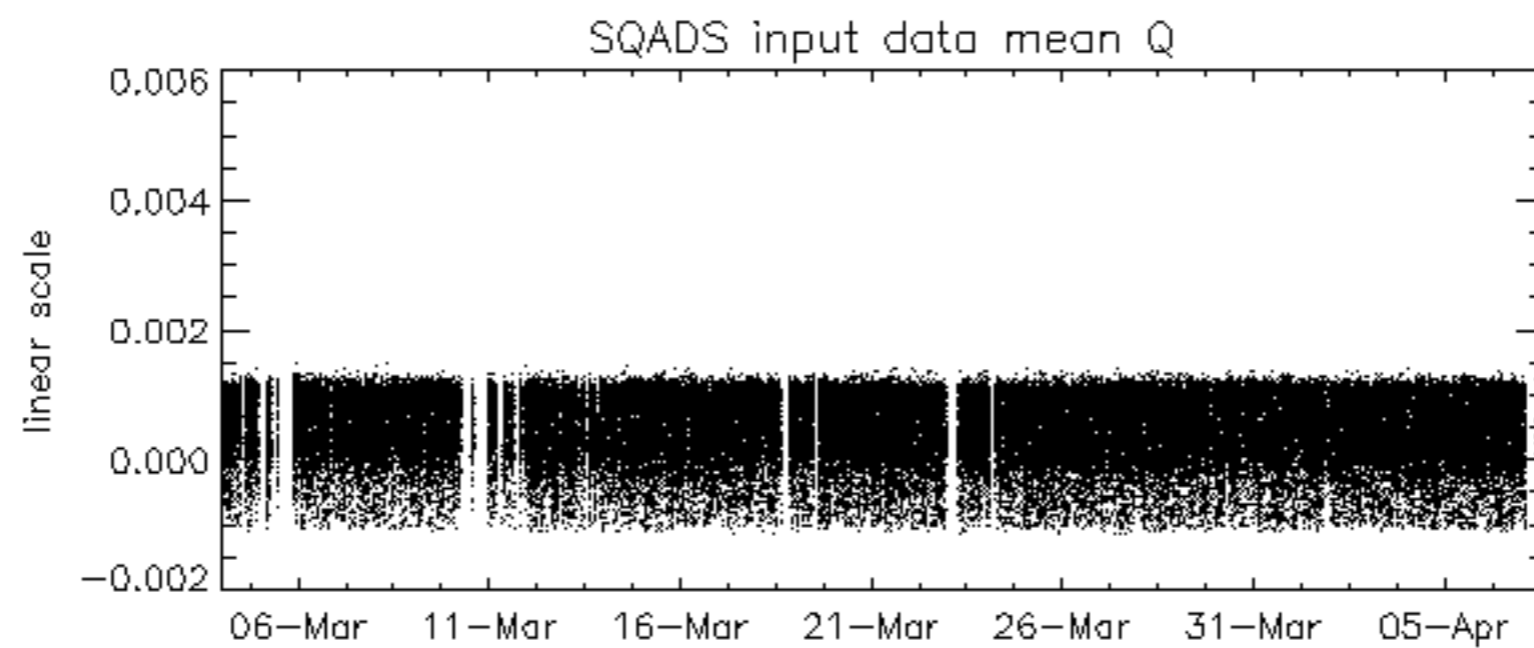
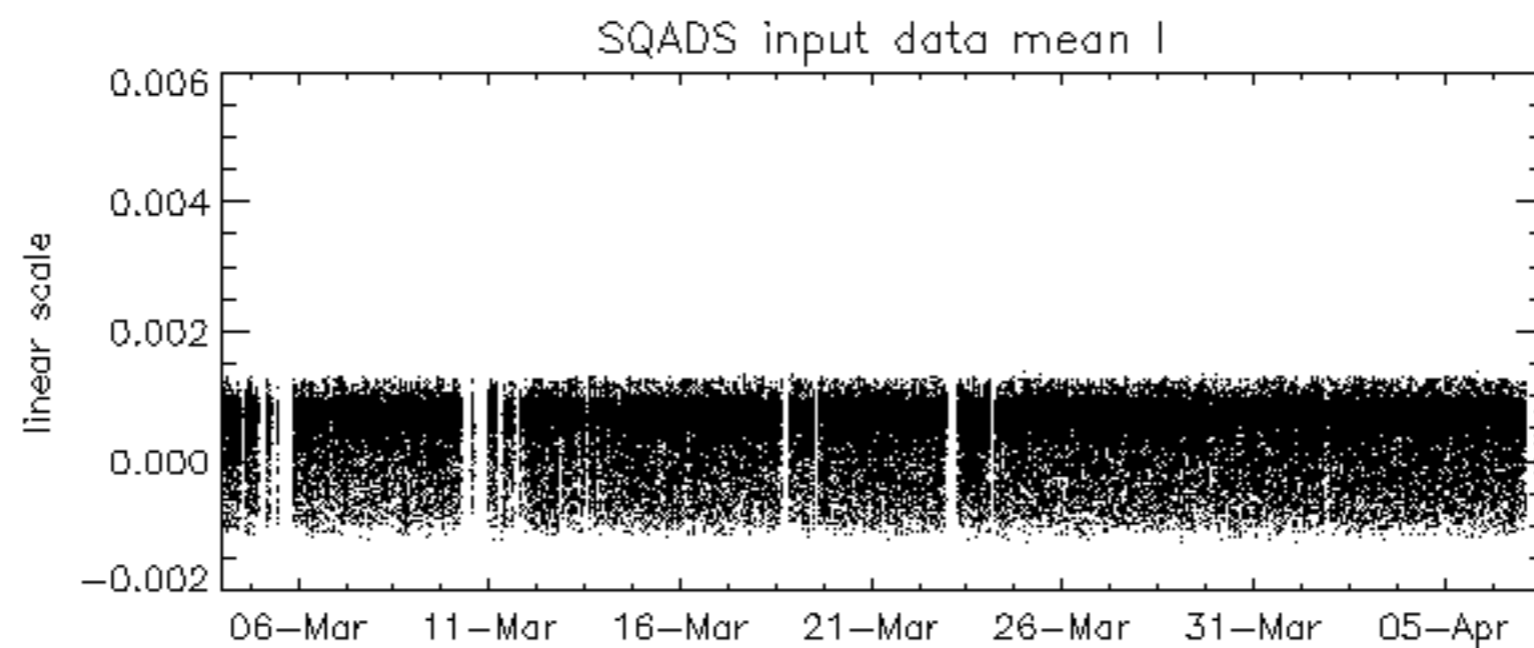
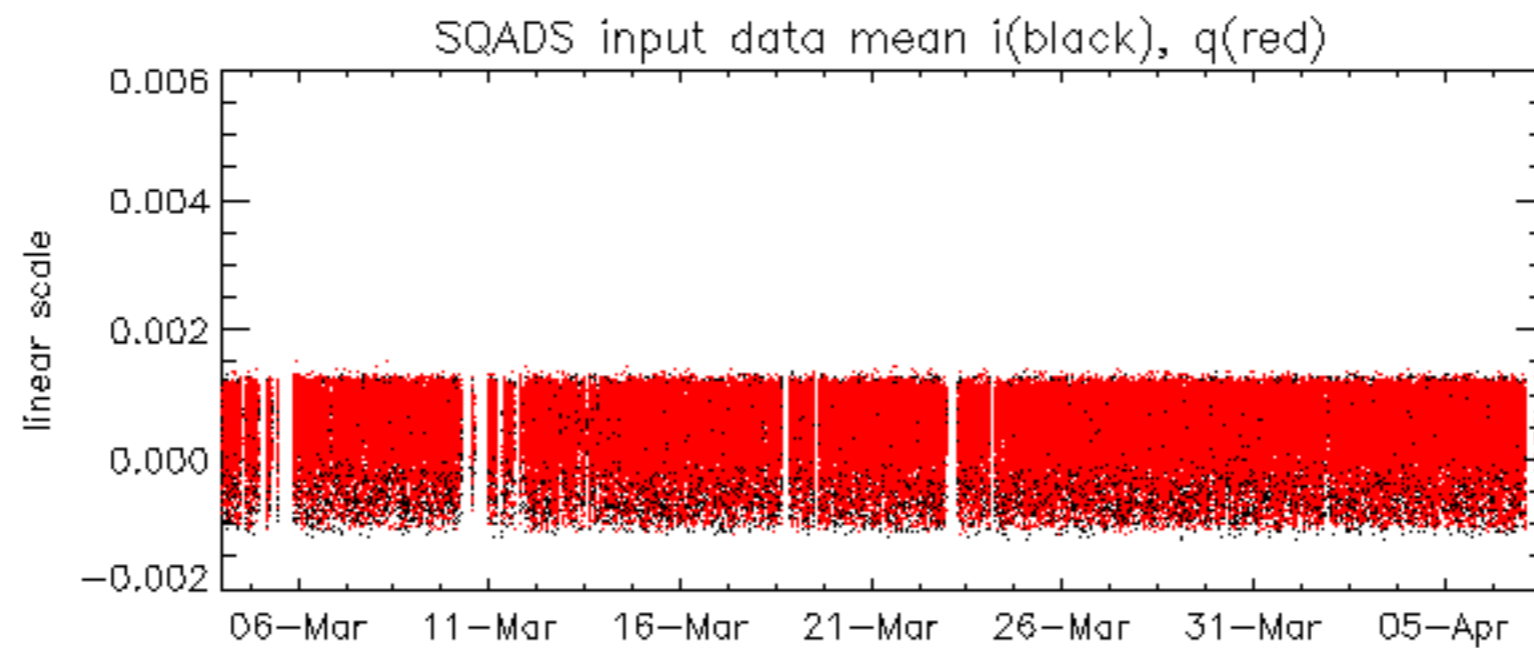
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -30.134628 Hz

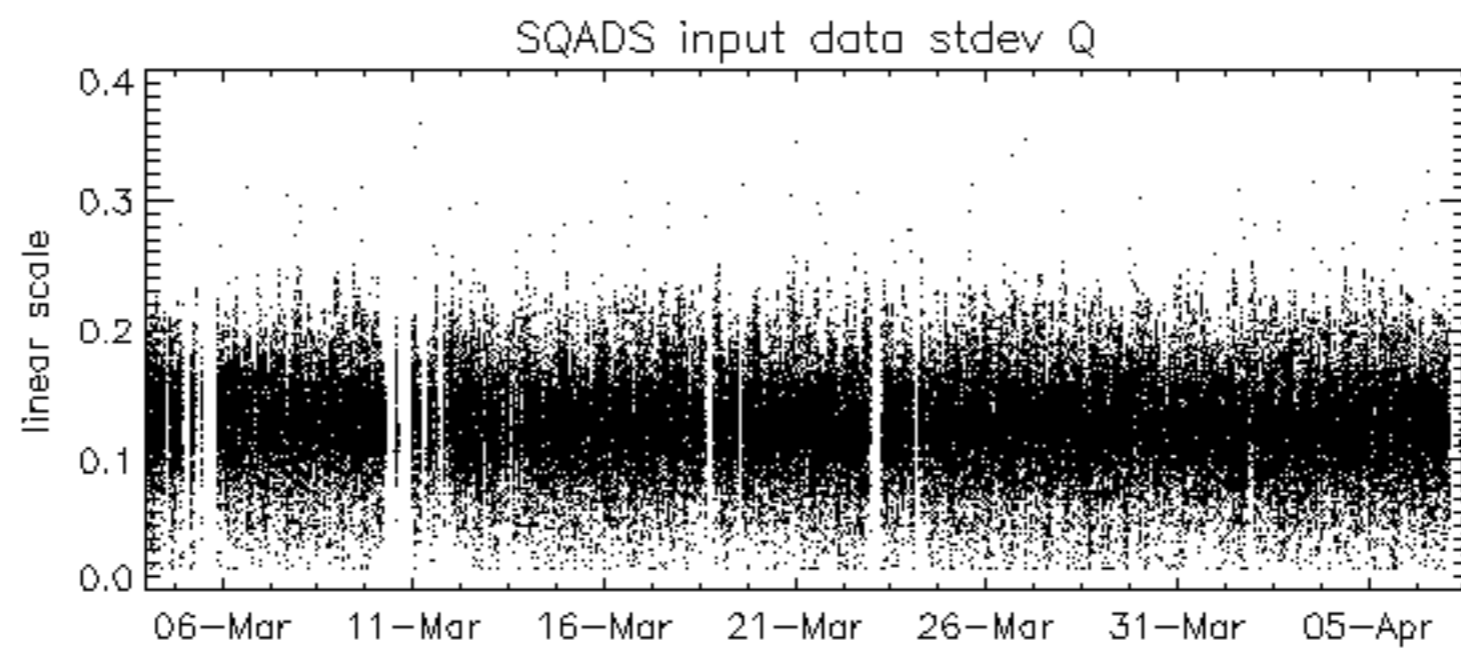
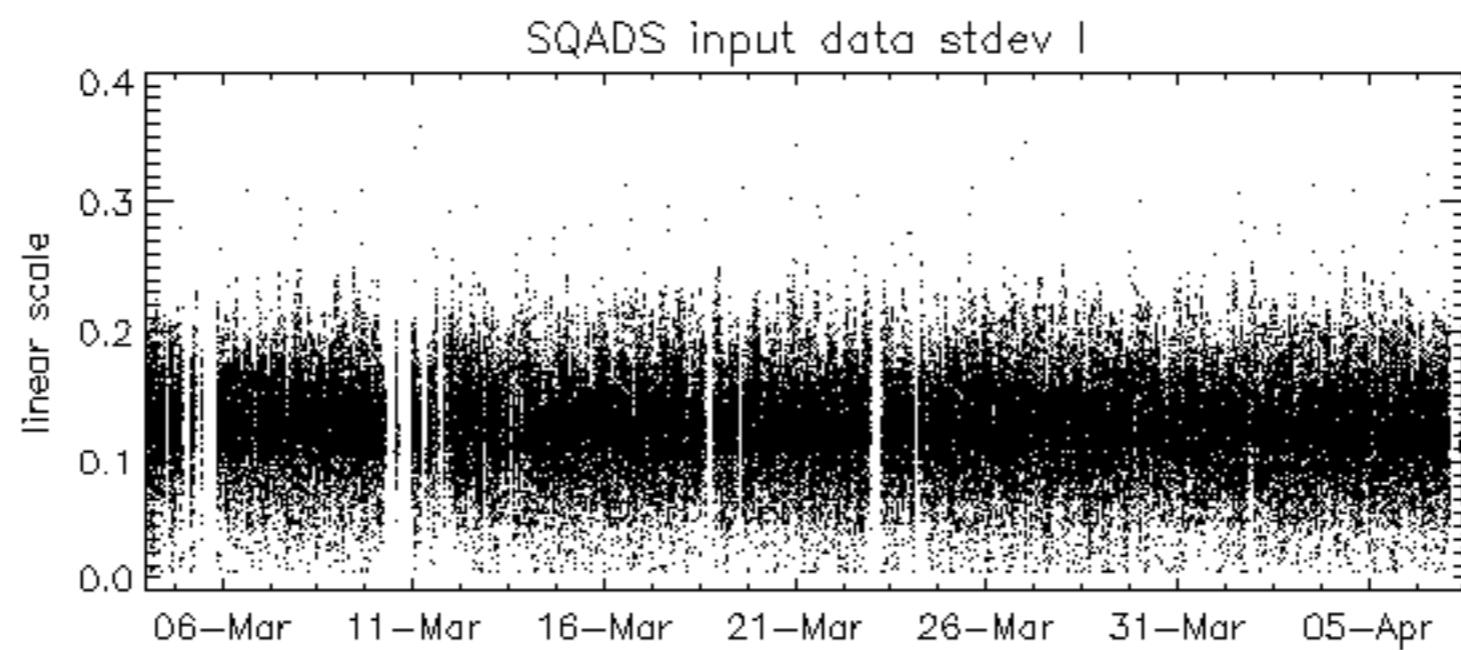
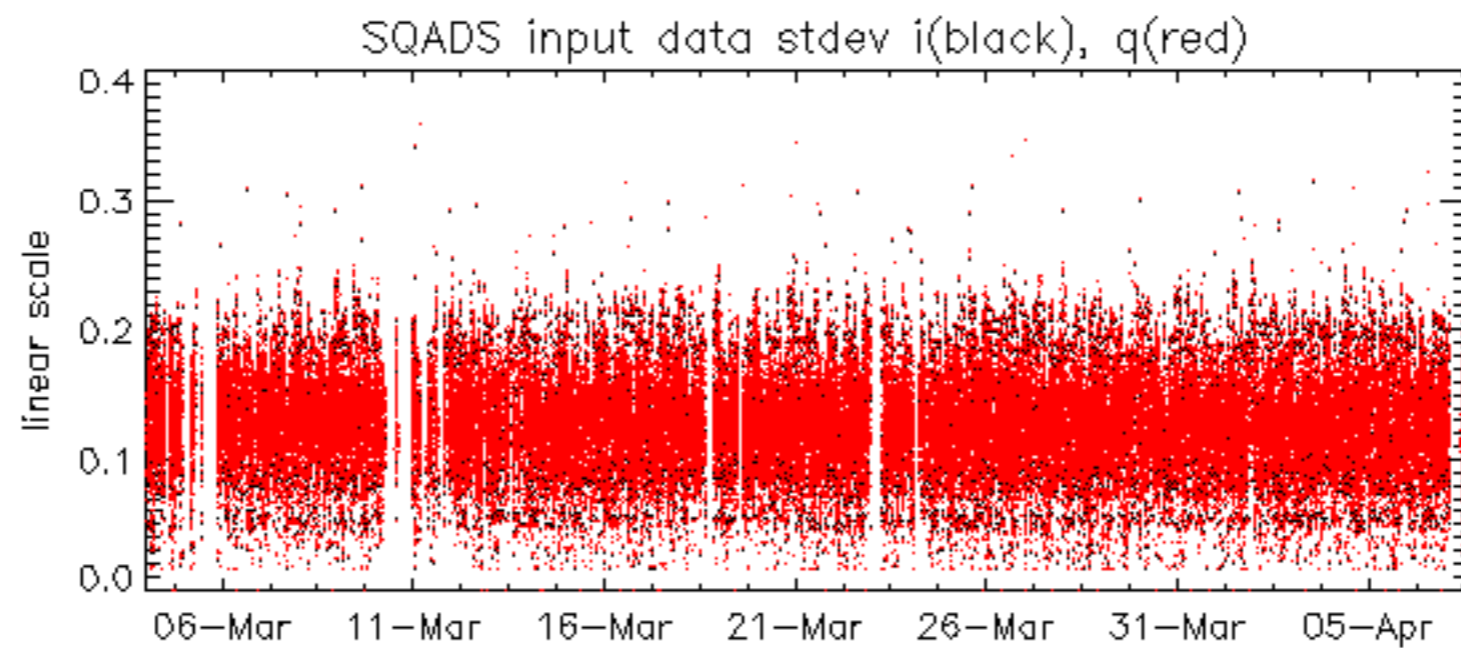


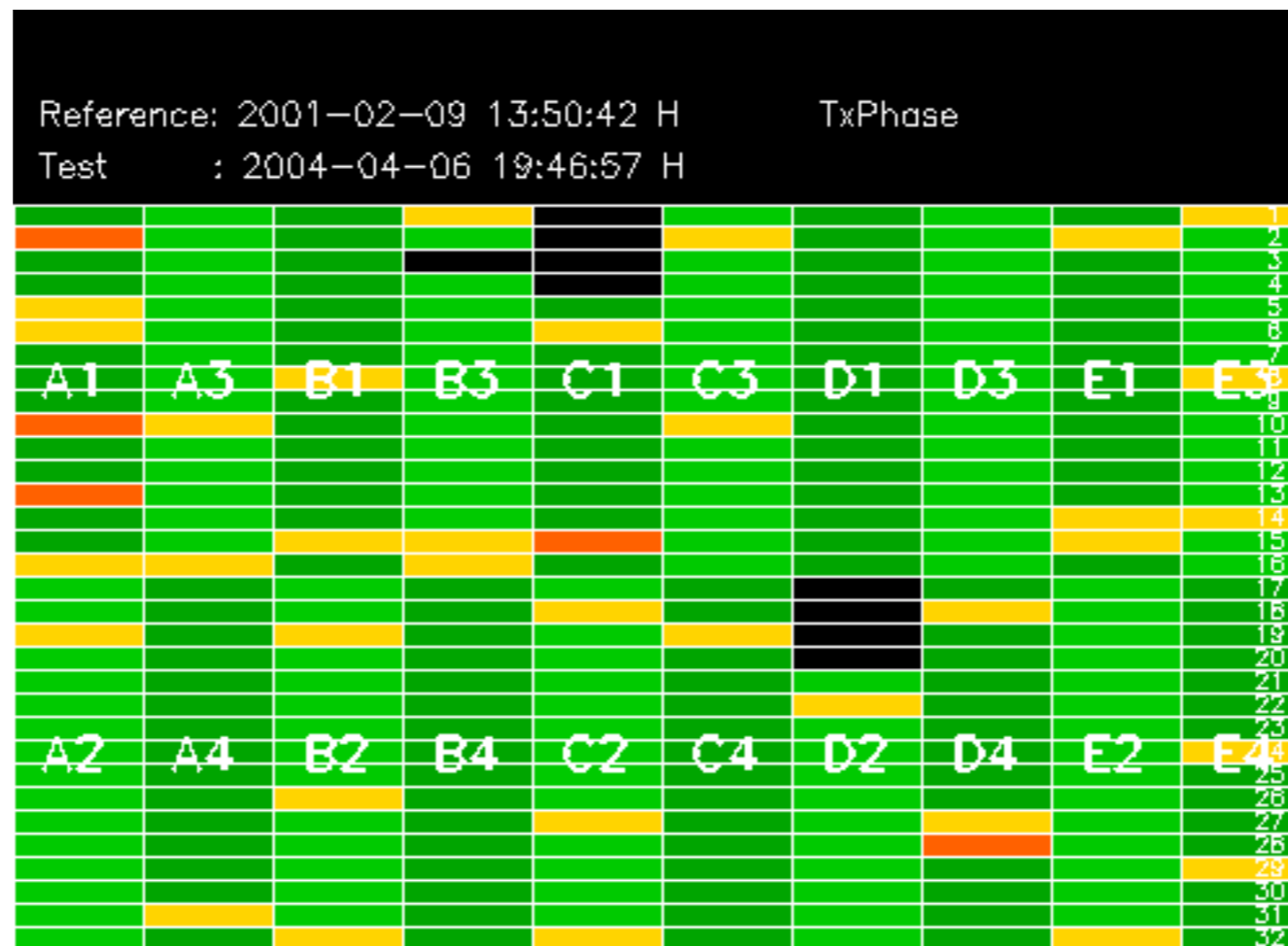
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