

REPORT OF 040217

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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

- 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.
MS products are missing since 13-14 february 2004

Polarisation	Start Time
V	20040214 202246
H	20040213 191227

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

row	stat	AveP1	AveP2	AveP3
3	mean	-3.63796	-22.3803	-8.12841
	stdev	0.00512740	0.0798154	0.00307030

24	mean	-5.08614	-21.0660	-8.12841
	stdev	0.0136566	0.0736568	0.00307030



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.66317	-22.4406	-8.13966
	stdev	0.00698981	0.0733512	0.00314170
24	mean	-5.10448	-21.0951	-8.13966
	stdev	0.0150789	0.0684257	0.00314170



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	0.000440020
	stdev	2.76350e-07
MEAN Q	mean	0.000383490
	stdev	3.22778e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.120636
	stdev	0.00134735

STDEV Q	mean	0.120868
	stdev	0.00136230



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

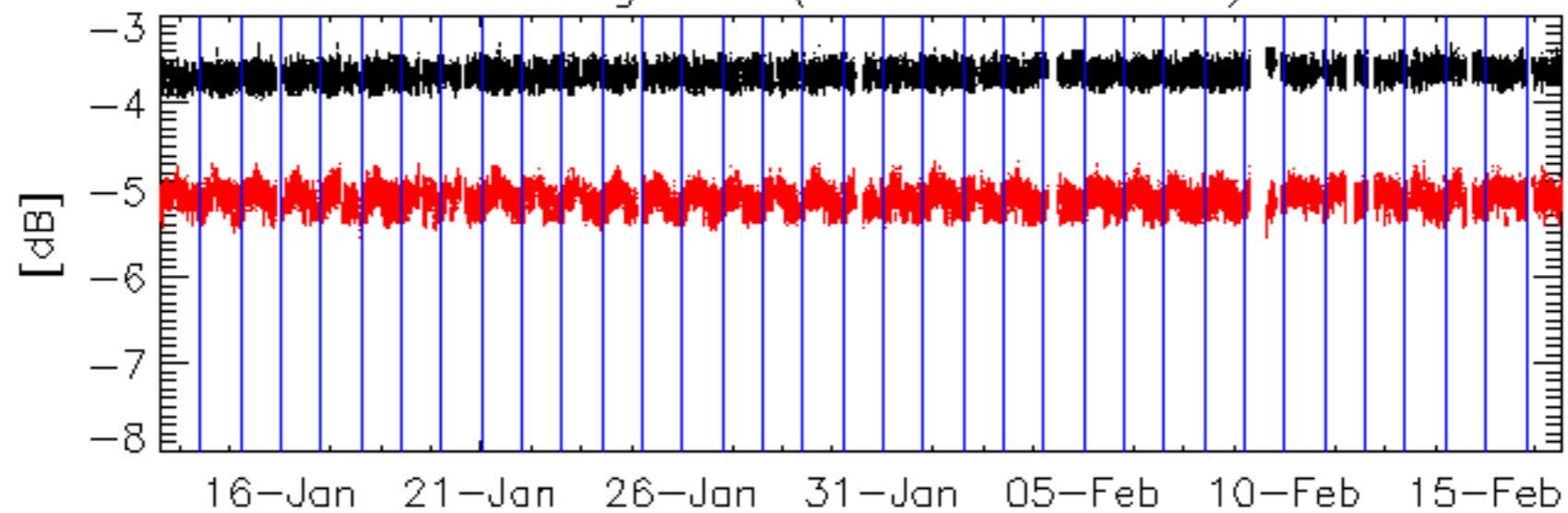
6.2 - Absolute Doppler

Evolution of Absolute Doppler
Ascending
Descending

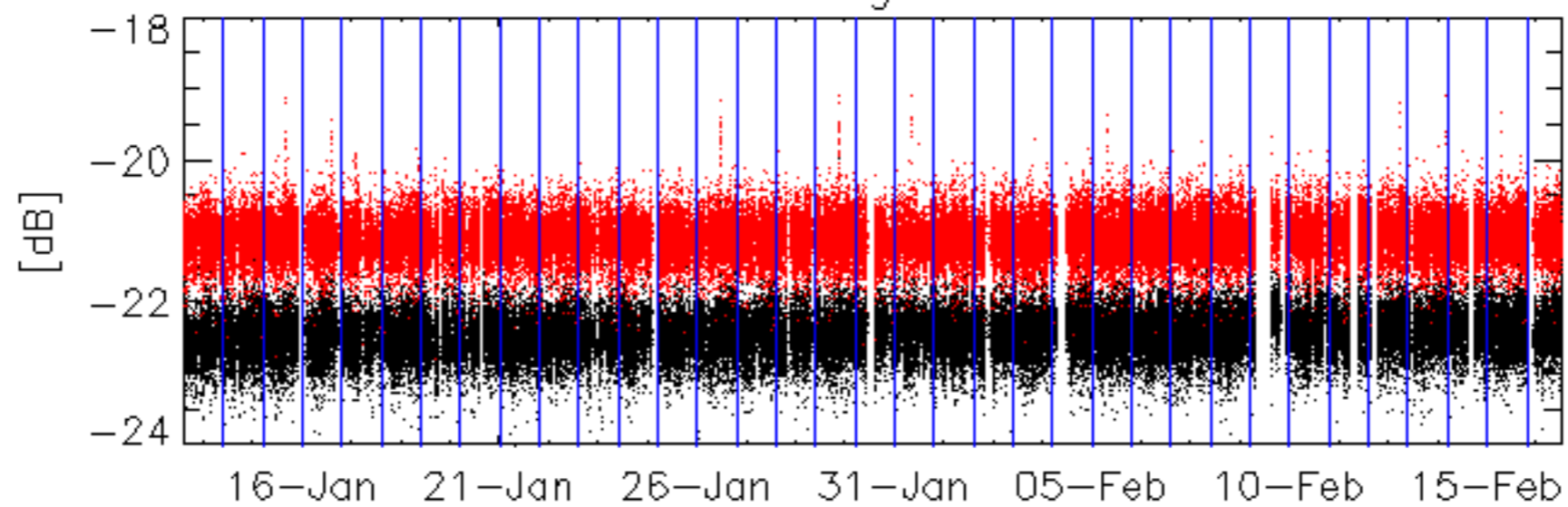
6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX

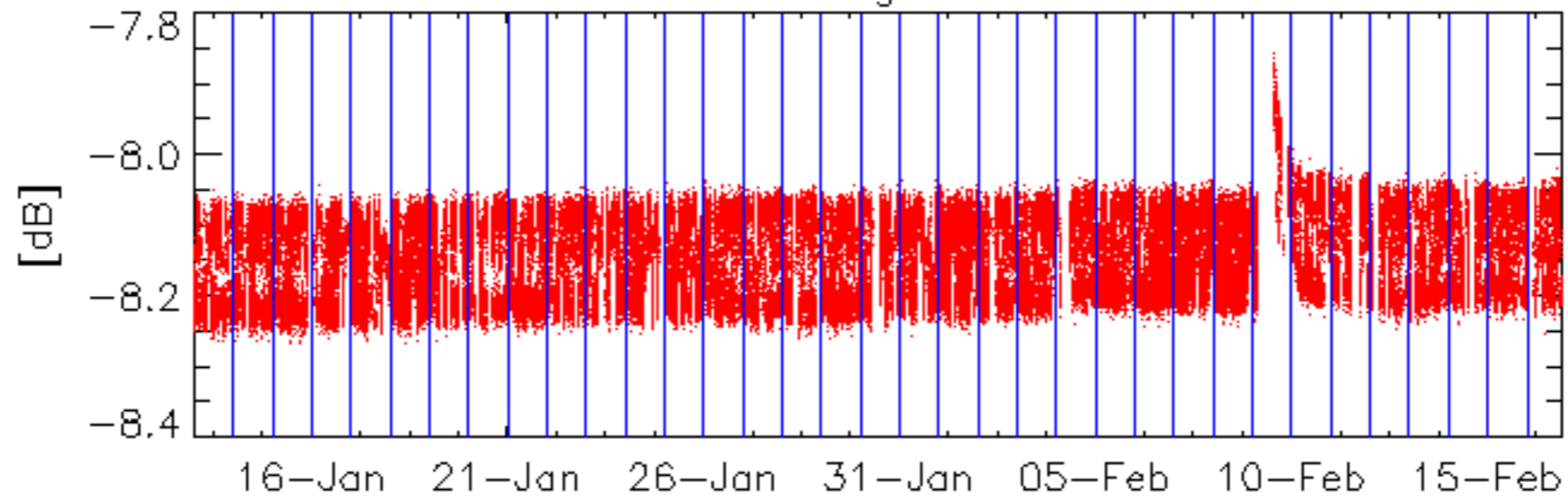

Average P1 (row 3 & row 24)



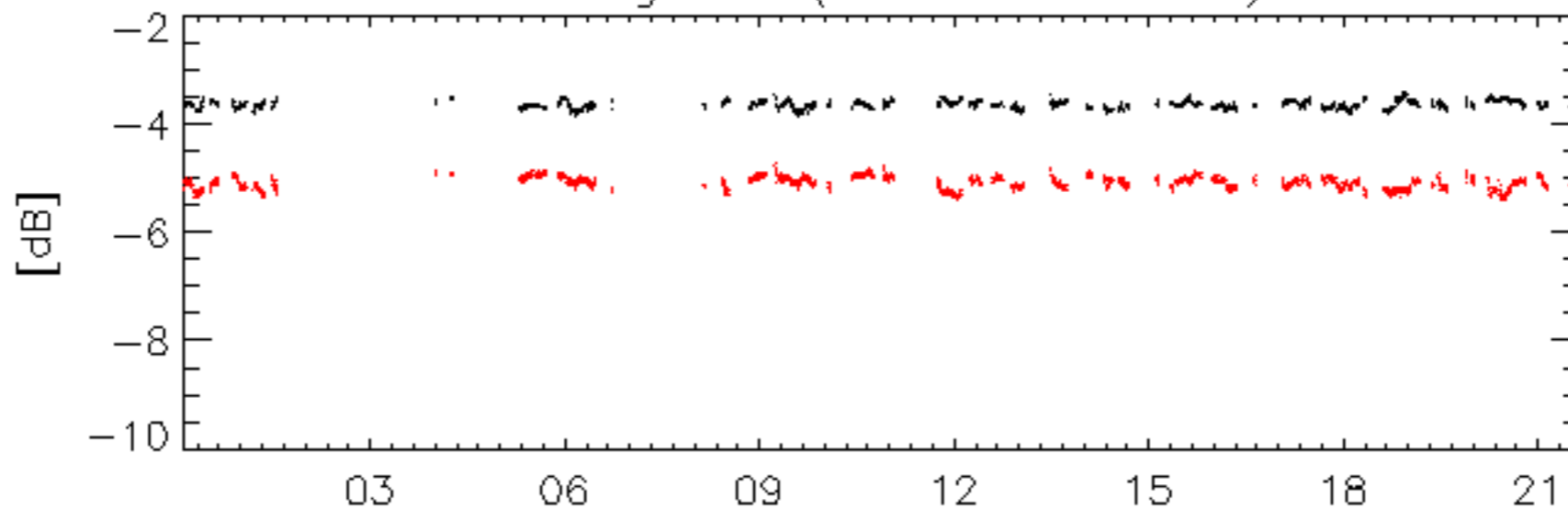
Average P2



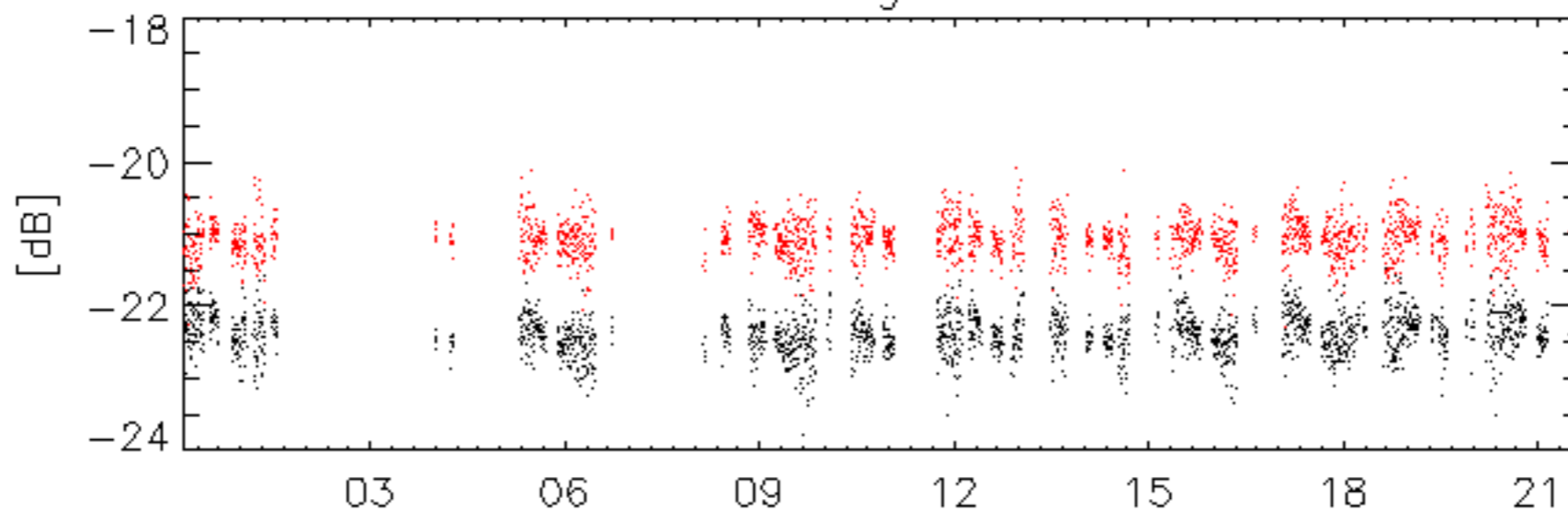
Average P3



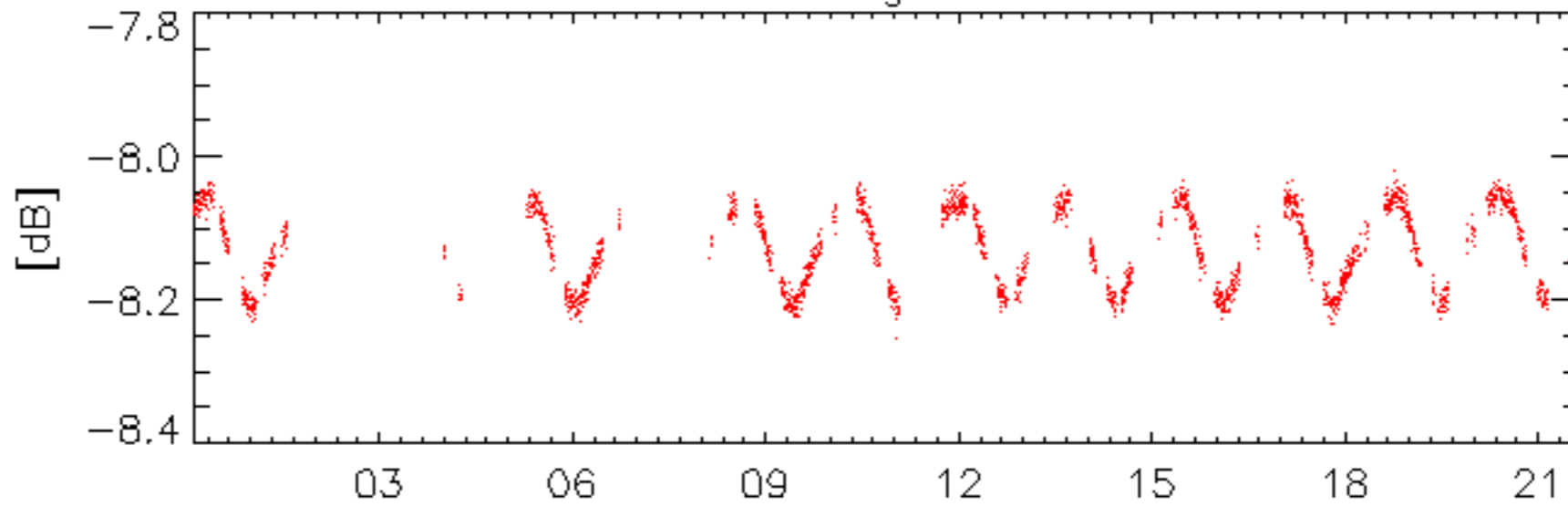
Average P1 (row 3 & row 24)



16-Feb
Average P2



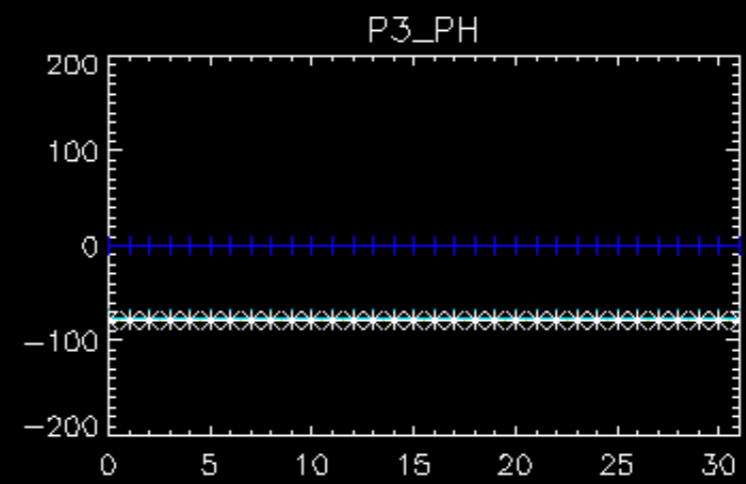
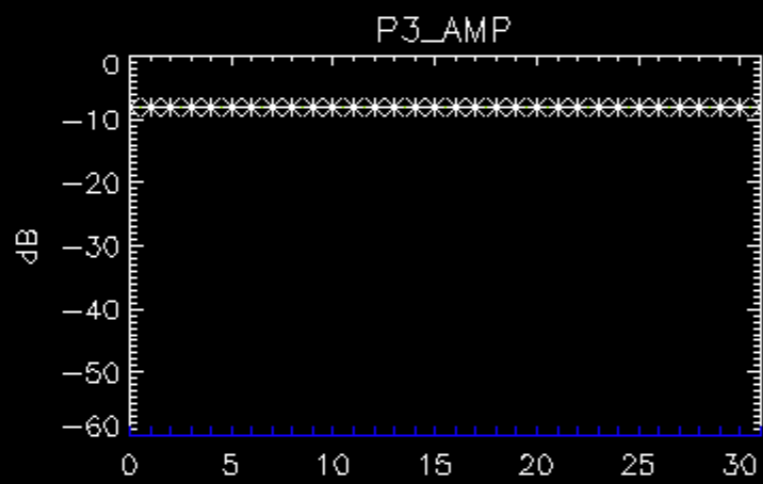
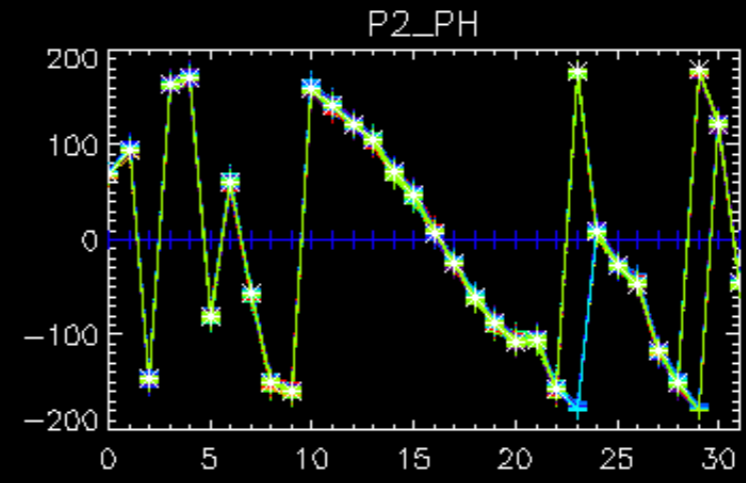
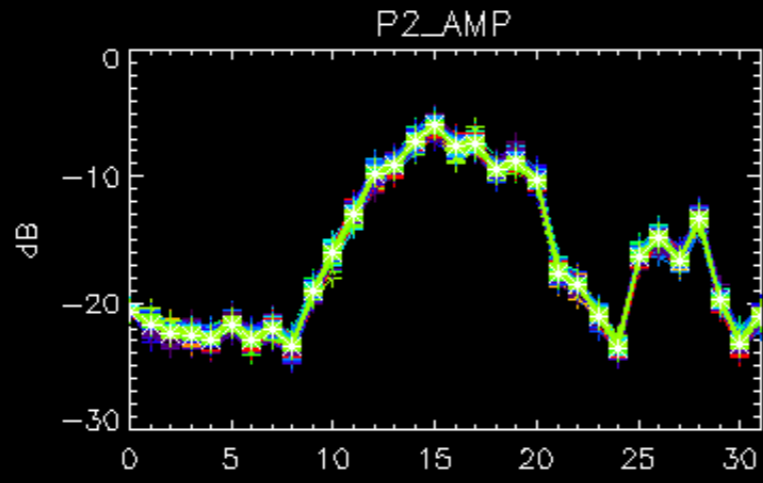
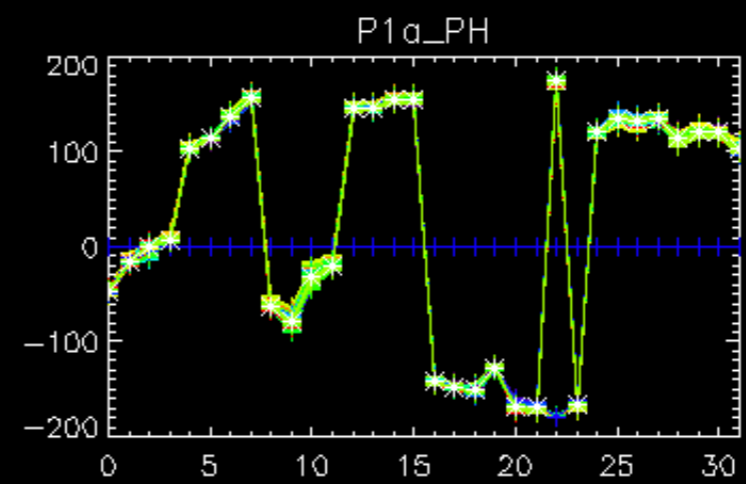
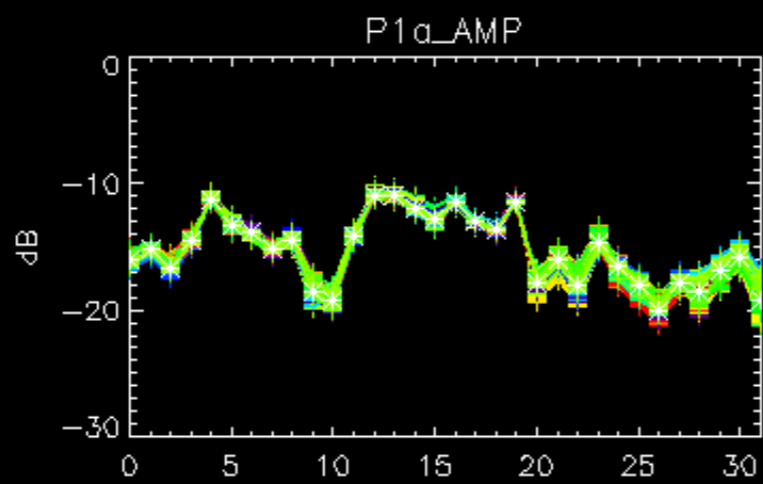
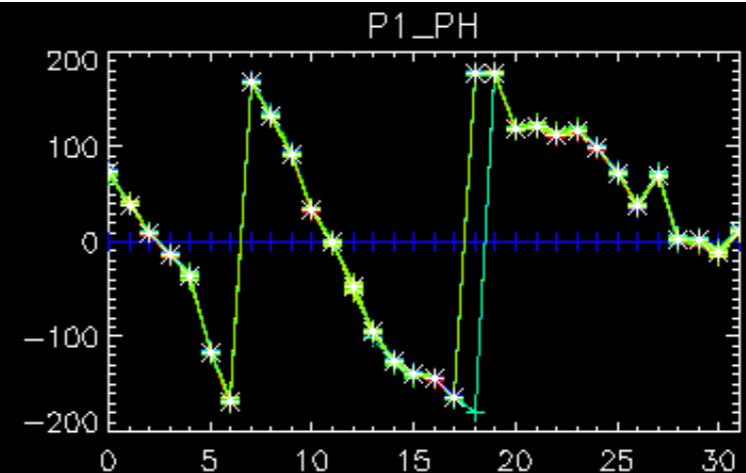
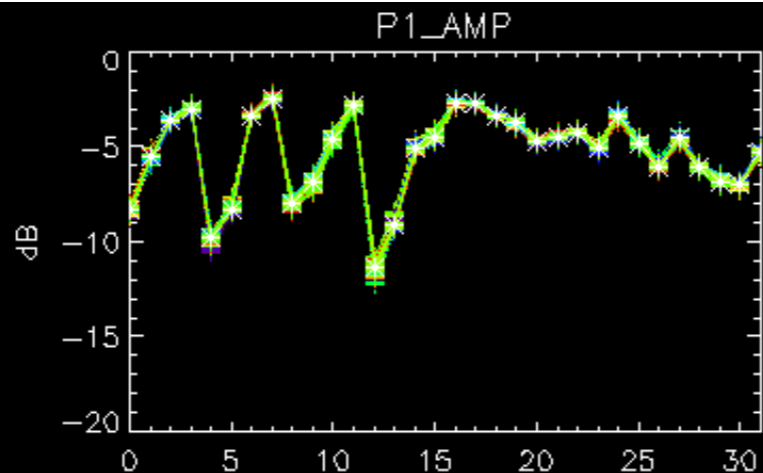
16-Feb
Average P3



16-Feb

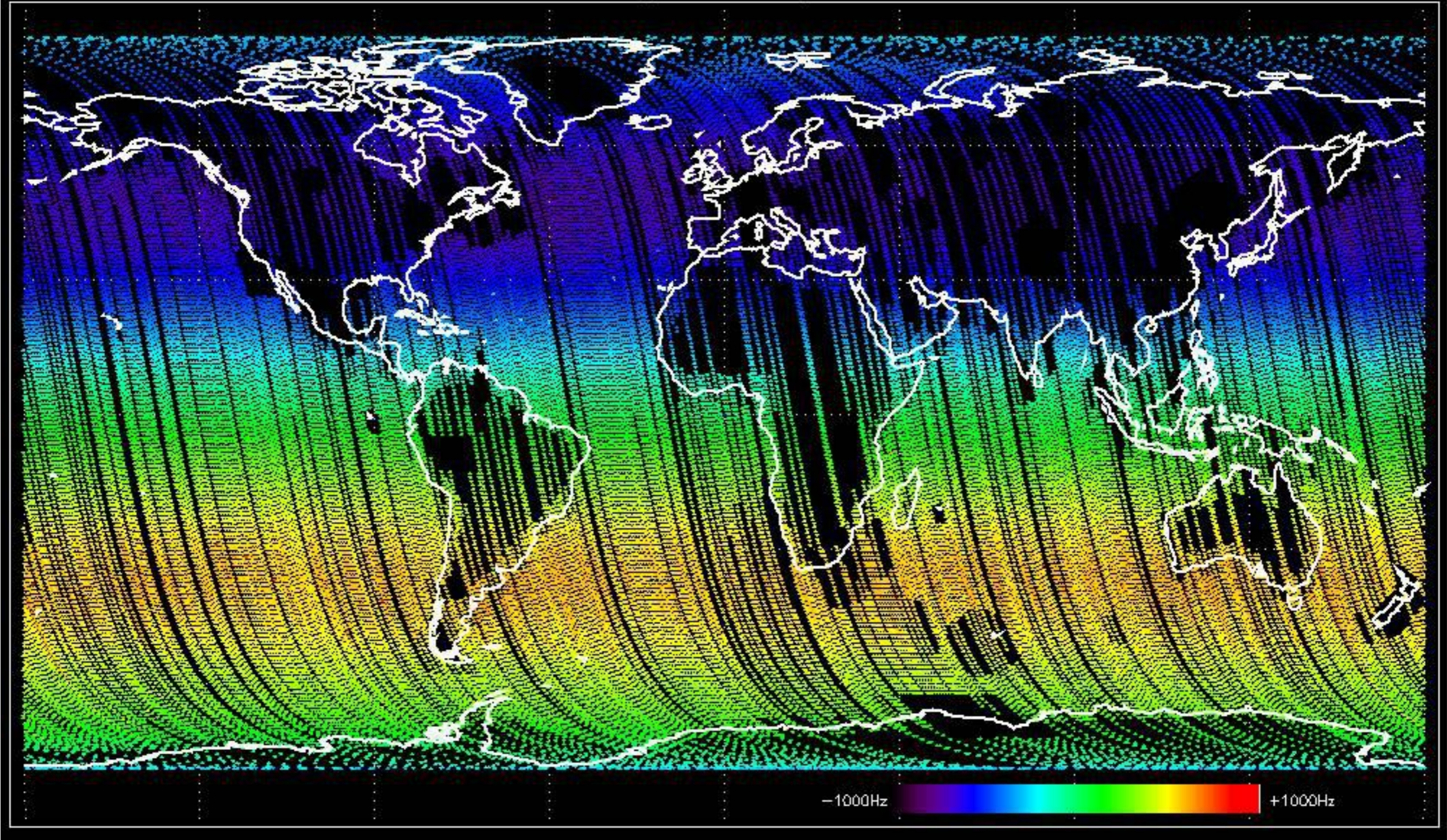
No anomalies observed on available browse products

No anomalies observed.

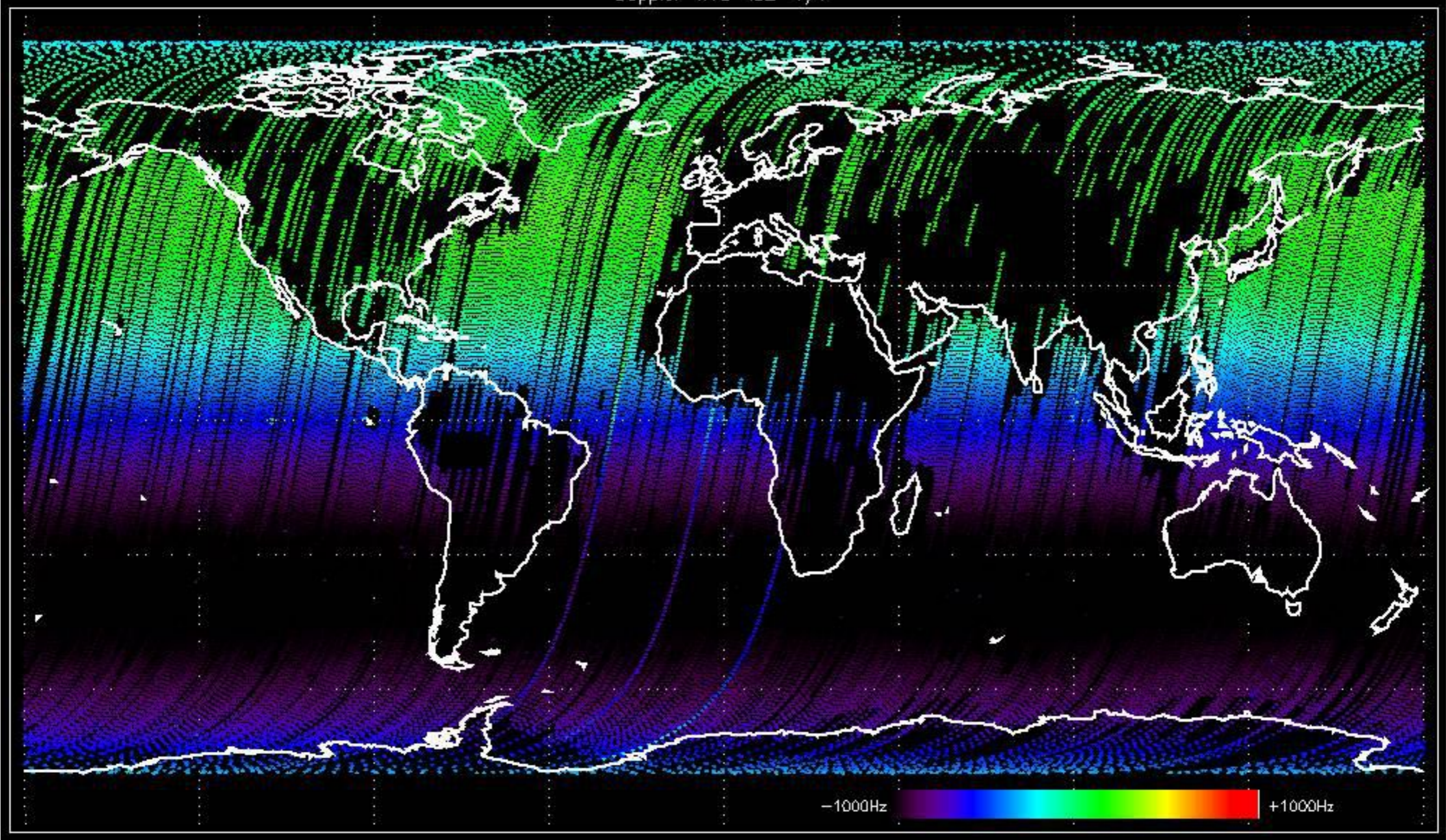


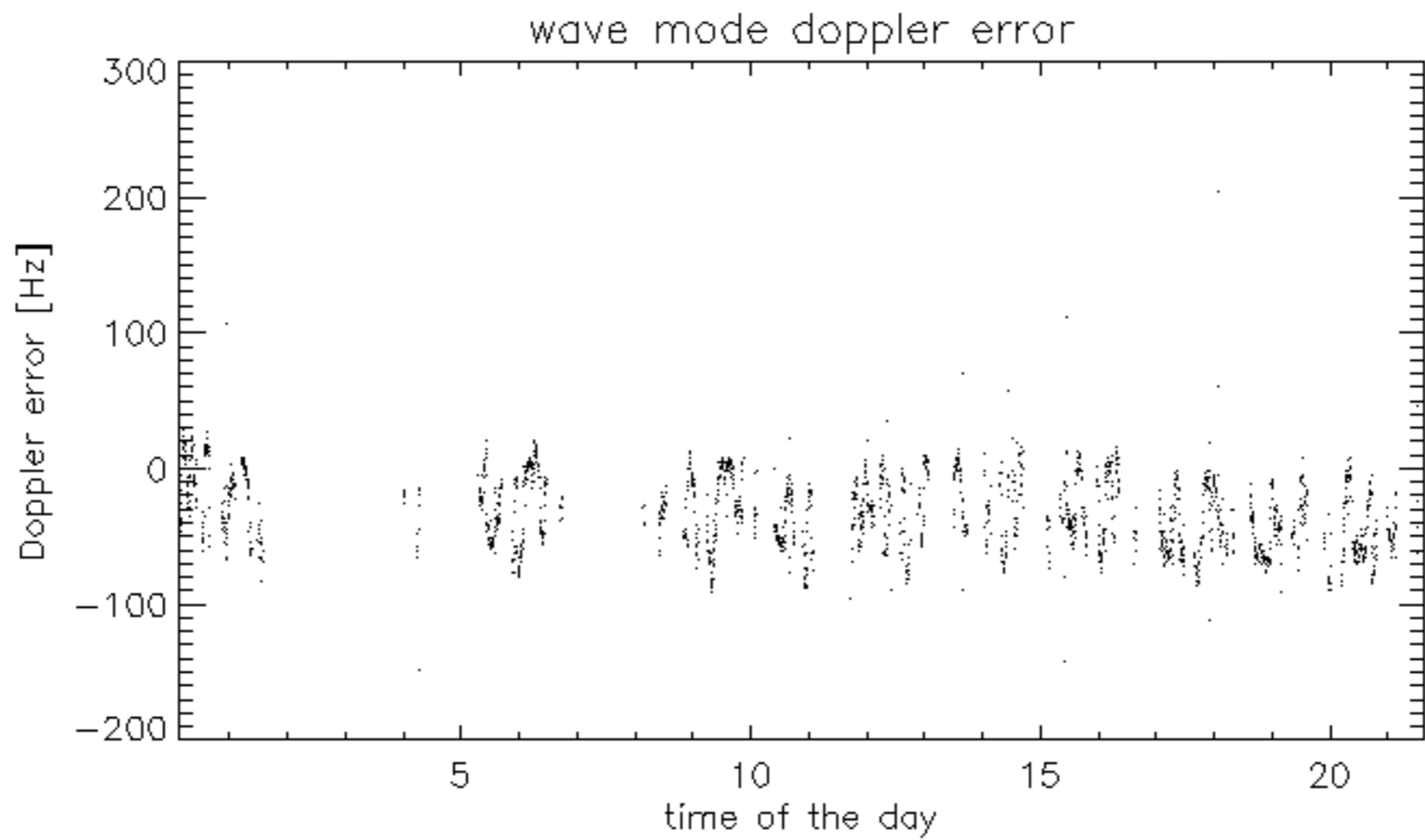
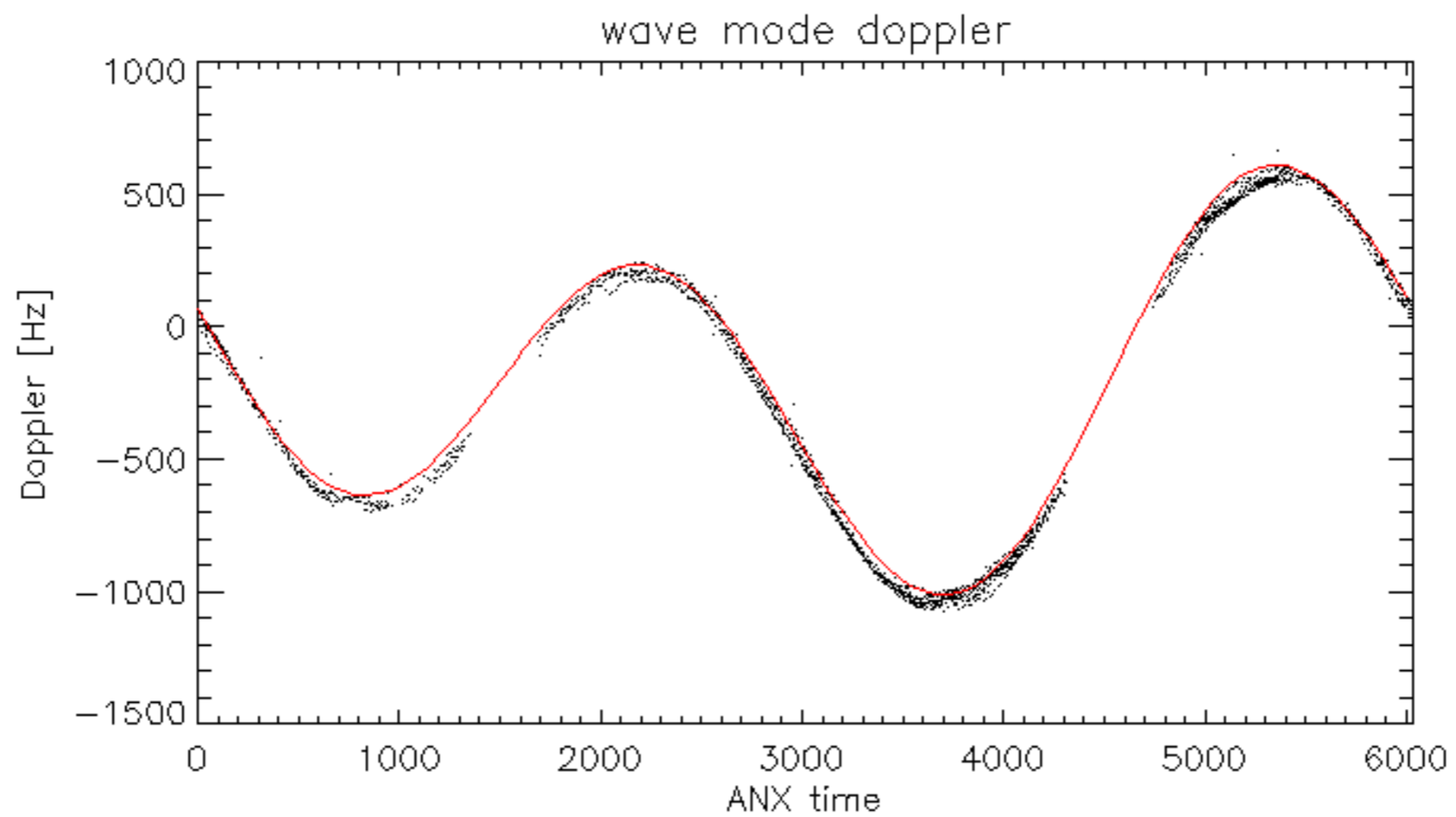
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Doppler 'WVS' 'IS2' 'H/H'

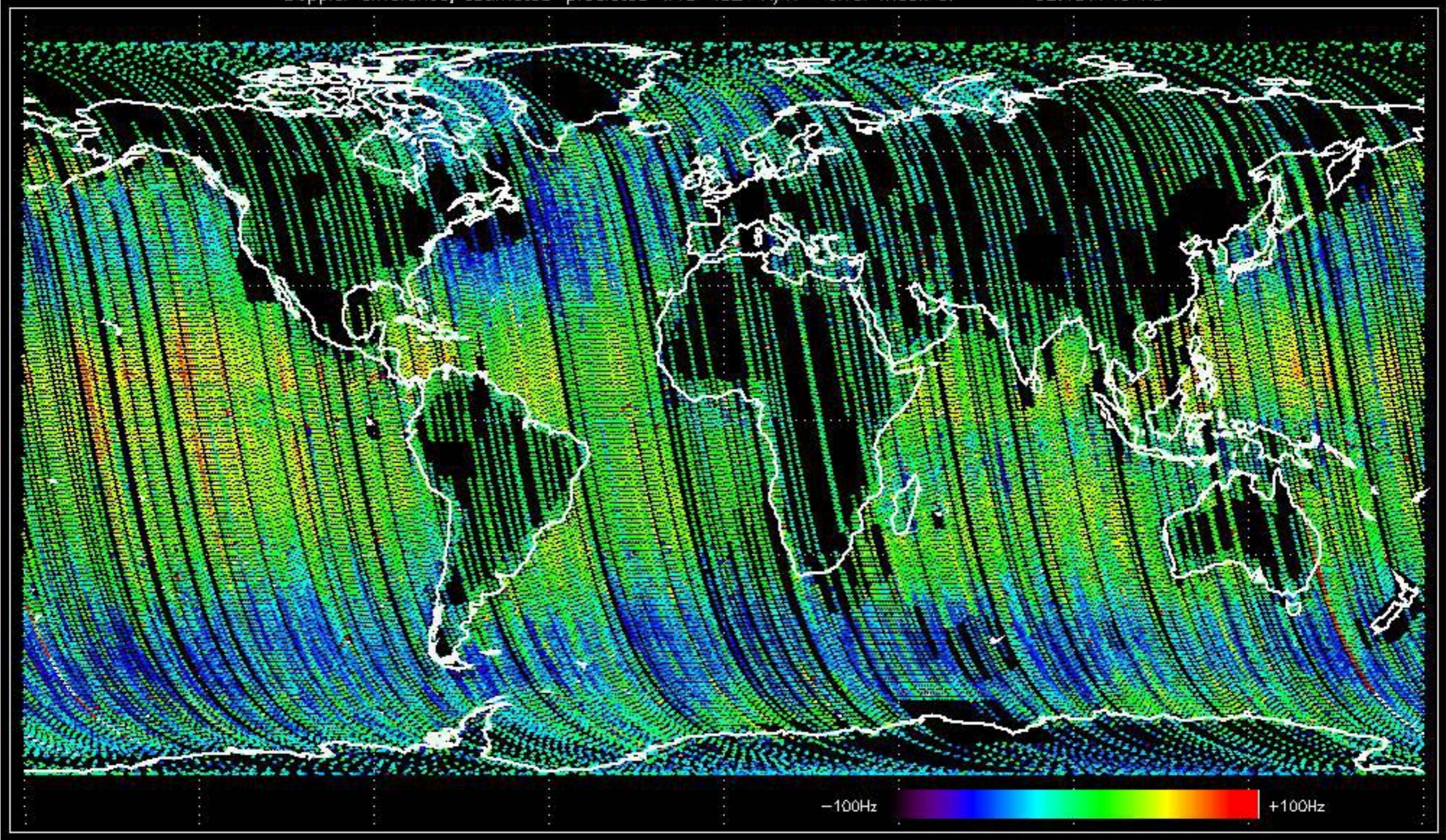


Doppler 'WVS' 'IS2' 'V/V'

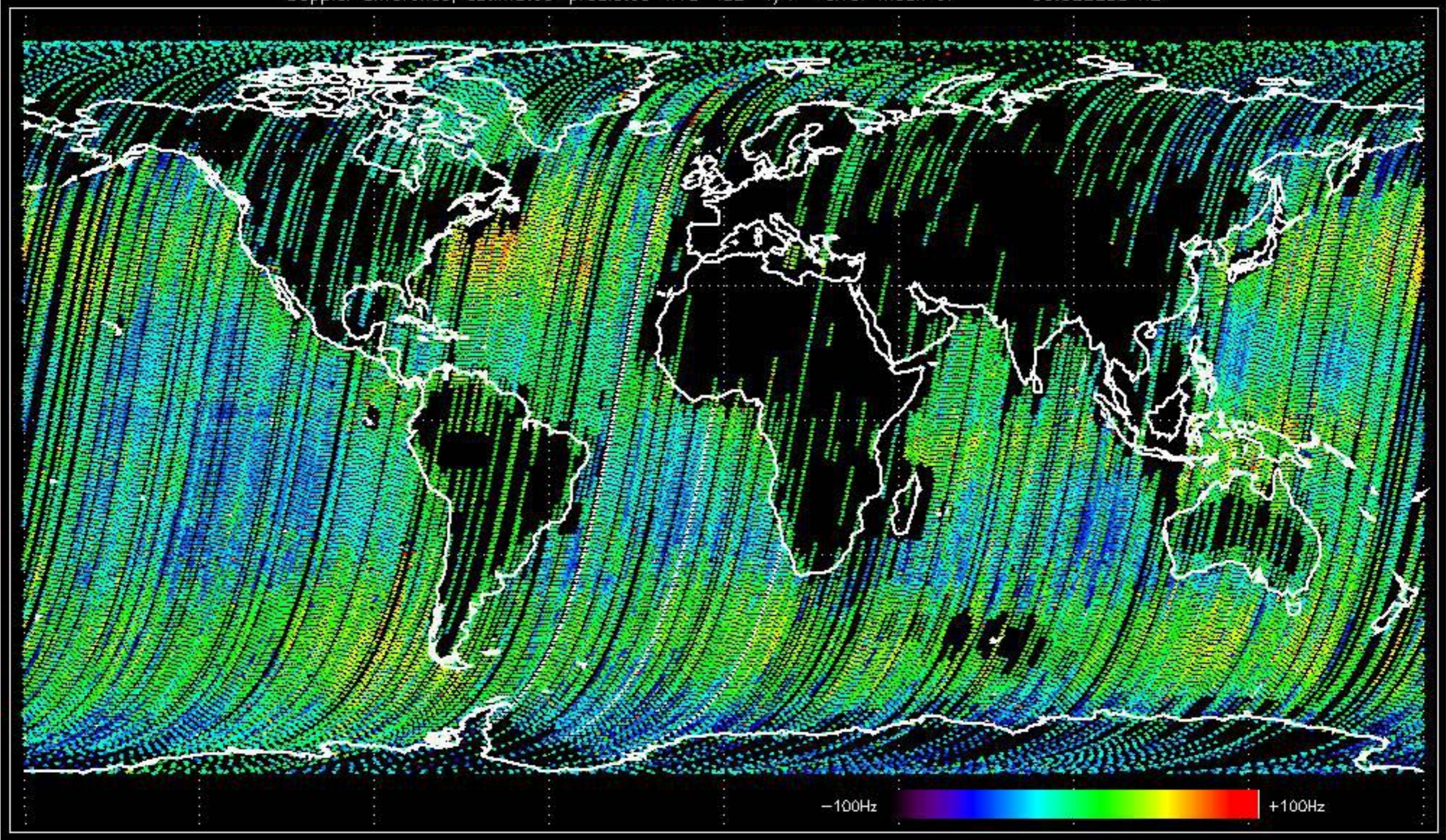




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -32.131740 Hz

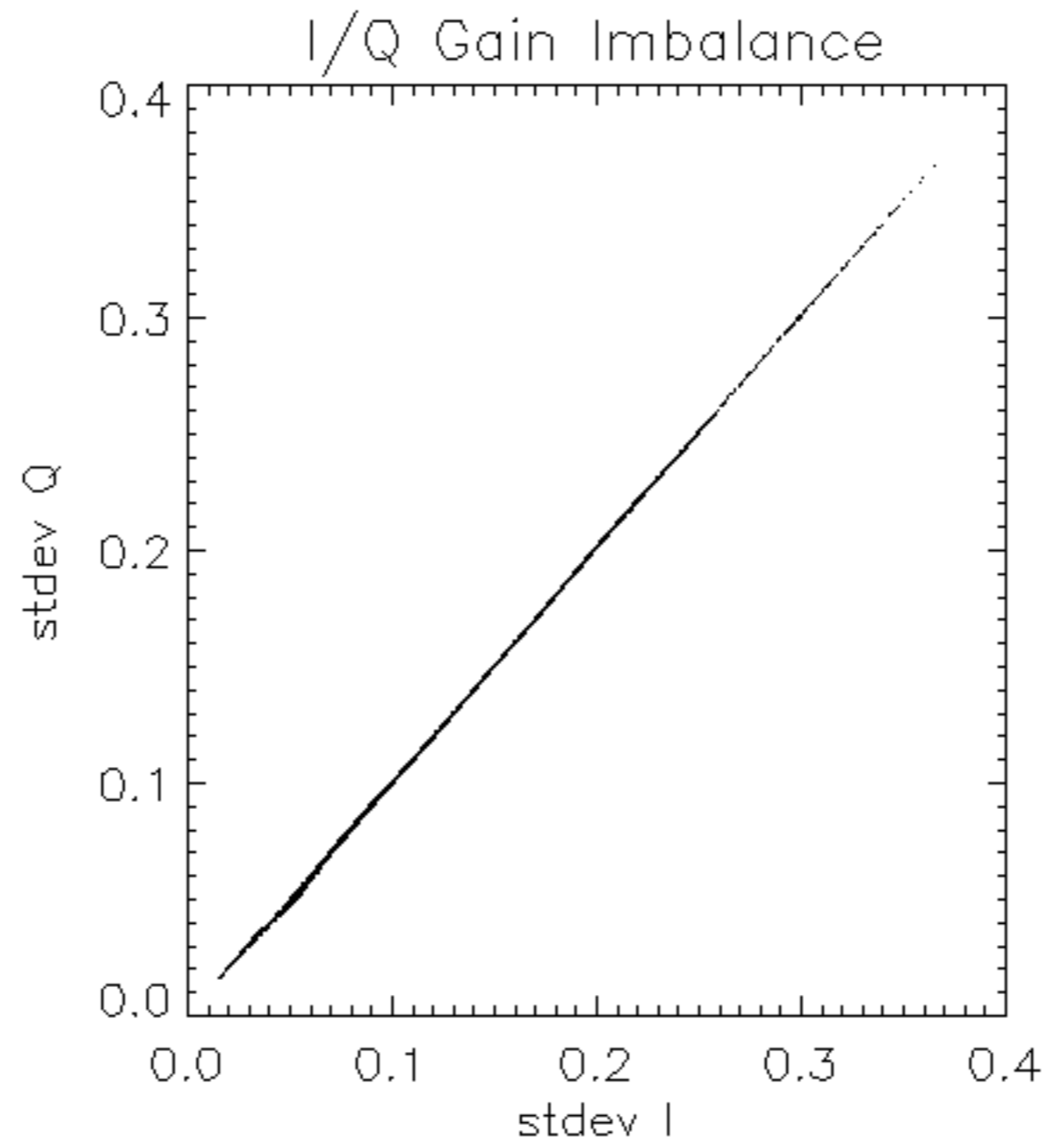


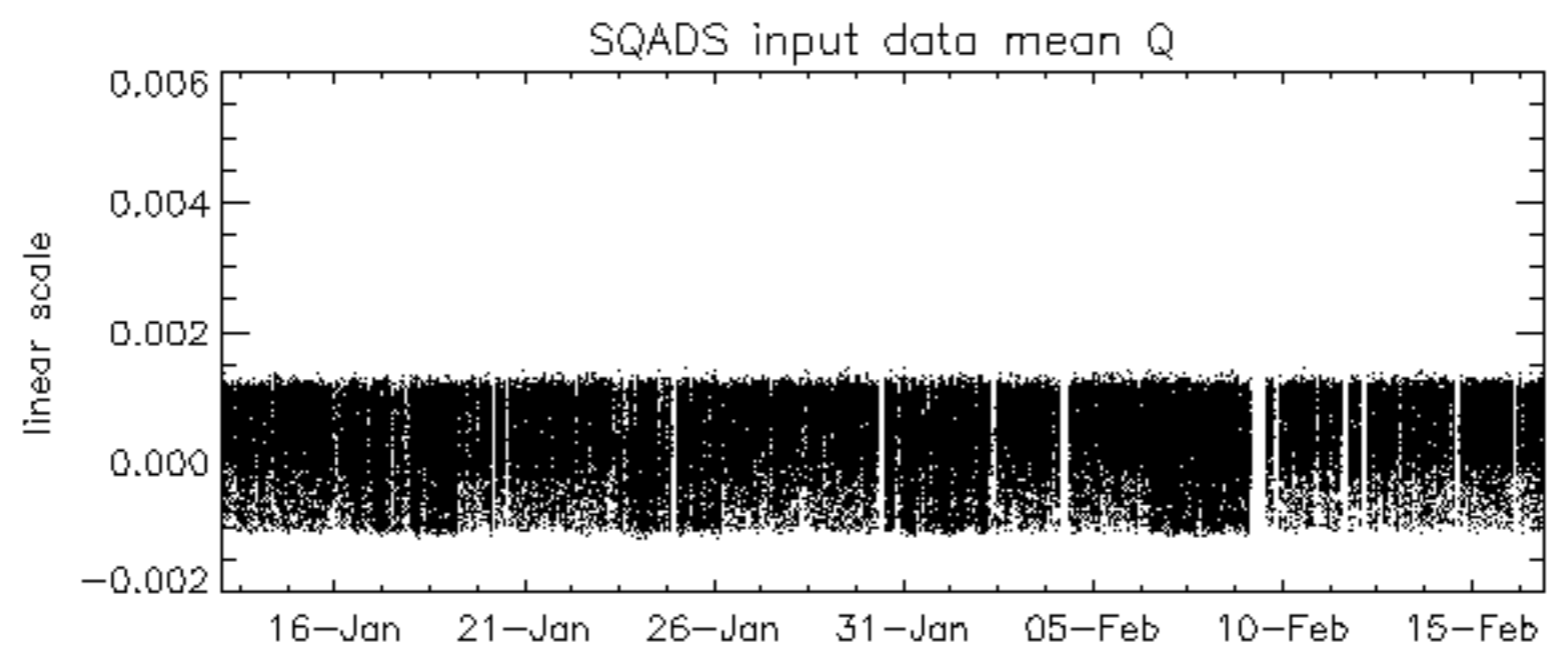
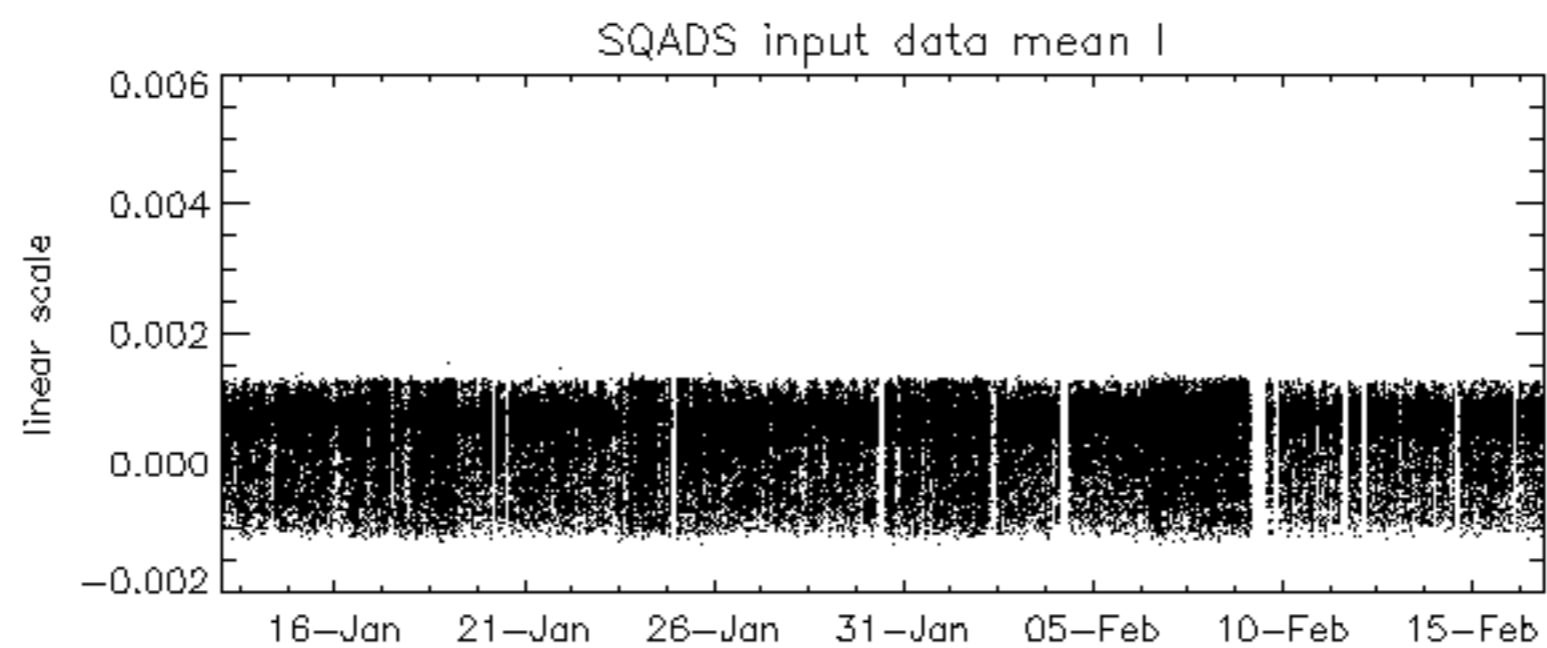
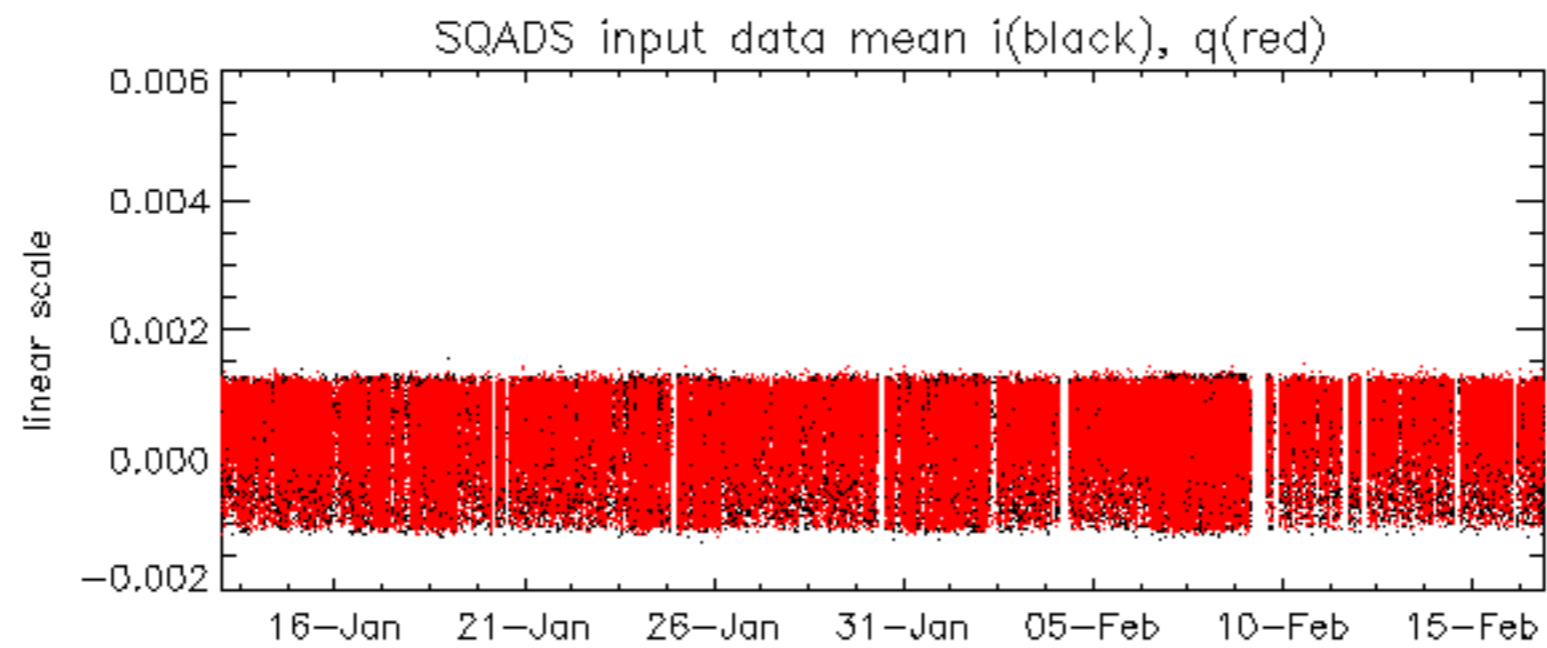
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -30.522253 Hz

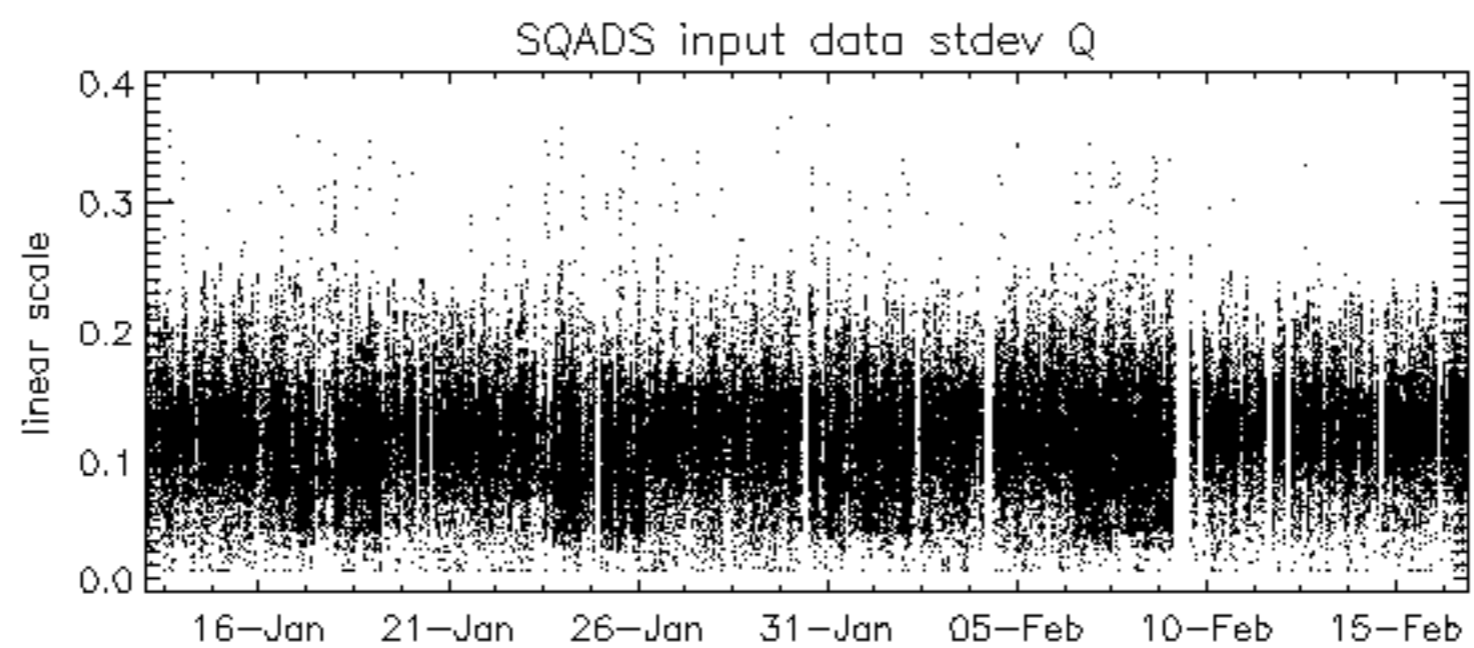
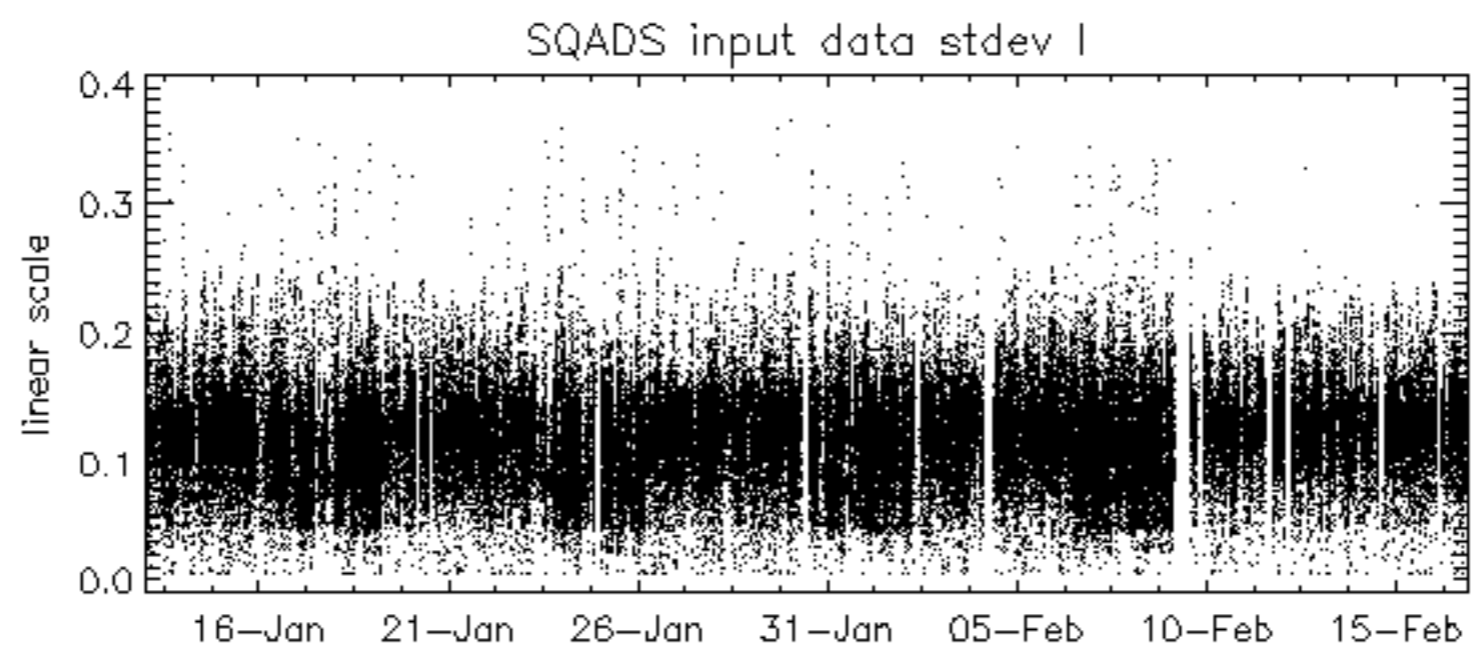
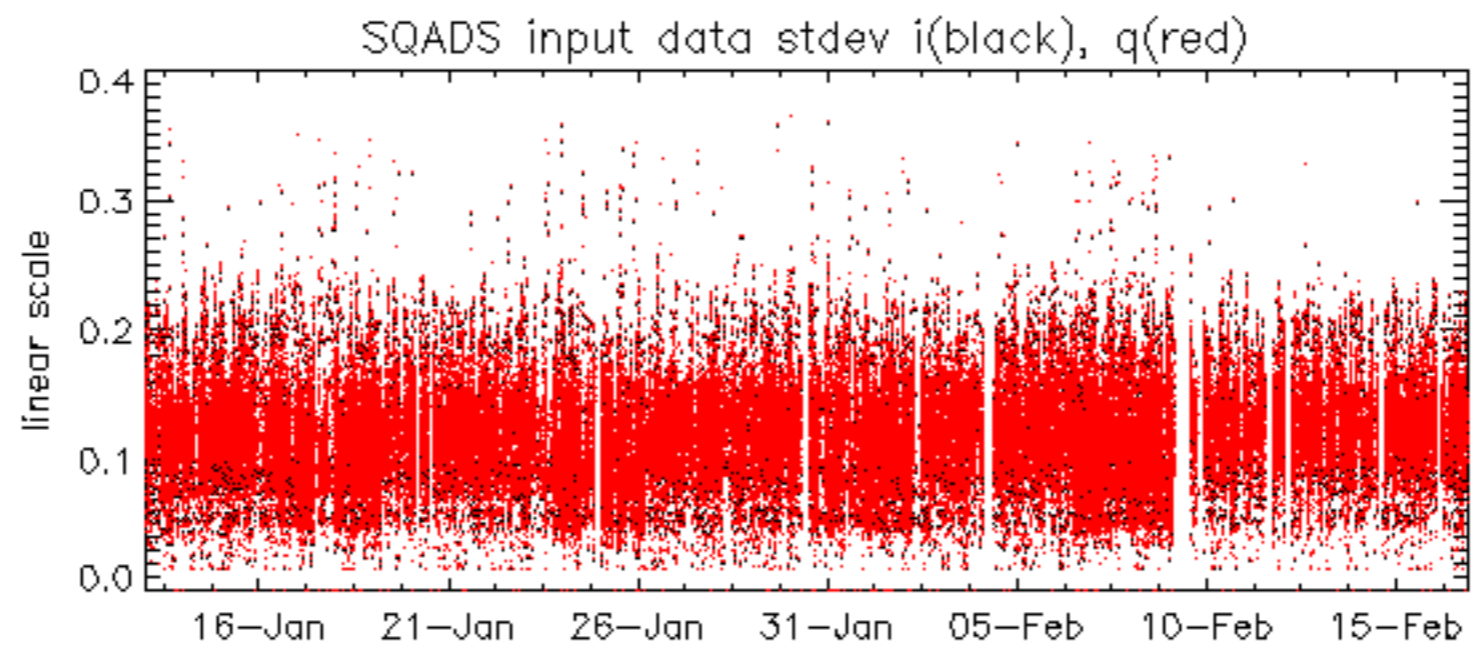


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The purpose of this mode is to identify to identify any malfunctioning modules and
to identify modules for which calibration offsets are to be applied.
MS products are missing since 13-14 february 2004

No anomalies observed.







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