

REPORT OF 031118

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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.

No anomalies observed on available MS products:

- ASA_MS__0PNPDK20031117_202153_000000152021_00400_08971_0026.N1
- ASA_MS__0PNPDK20031117_202313_000000152021_00400_08971_0025.N1

Polarisation	Start Time
V	20031117 202313
H	20031117 202153

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
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3	mean	-3.76657	-22.6220	-8.17520
	stdev	0.00703471	0.0633928	0.00340279
24	mean	-5.09967	-21.2799	-8.17463
	stdev	0.0111333	0.0580010	0.00338597



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.77833	-22.5508	-8.15377
	stdev	0.00595654	0.0659377	0.00300697
24	mean	-5.33105	-21.2444	-8.15385
	stdev	0.906880	0.0608630	0.00301102



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	0.000402532
	stdev	3.37063e-07
MEAN Q	mean	0.000238179
	stdev	3.66066e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
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STDEV I	mean	0.112586
	stdev	0.00147306
STDEV Q	mean	0.112837
	stdev	0.00149042



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

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

6.1 - Unbiased Doppler Error

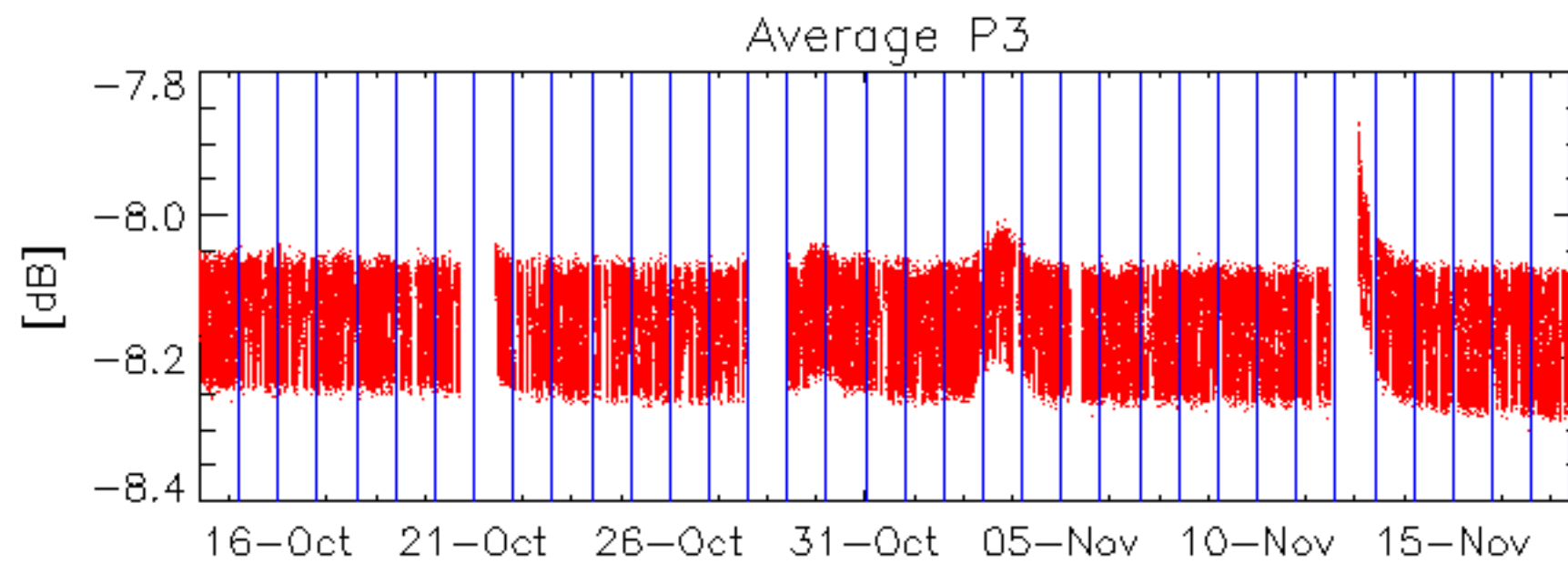
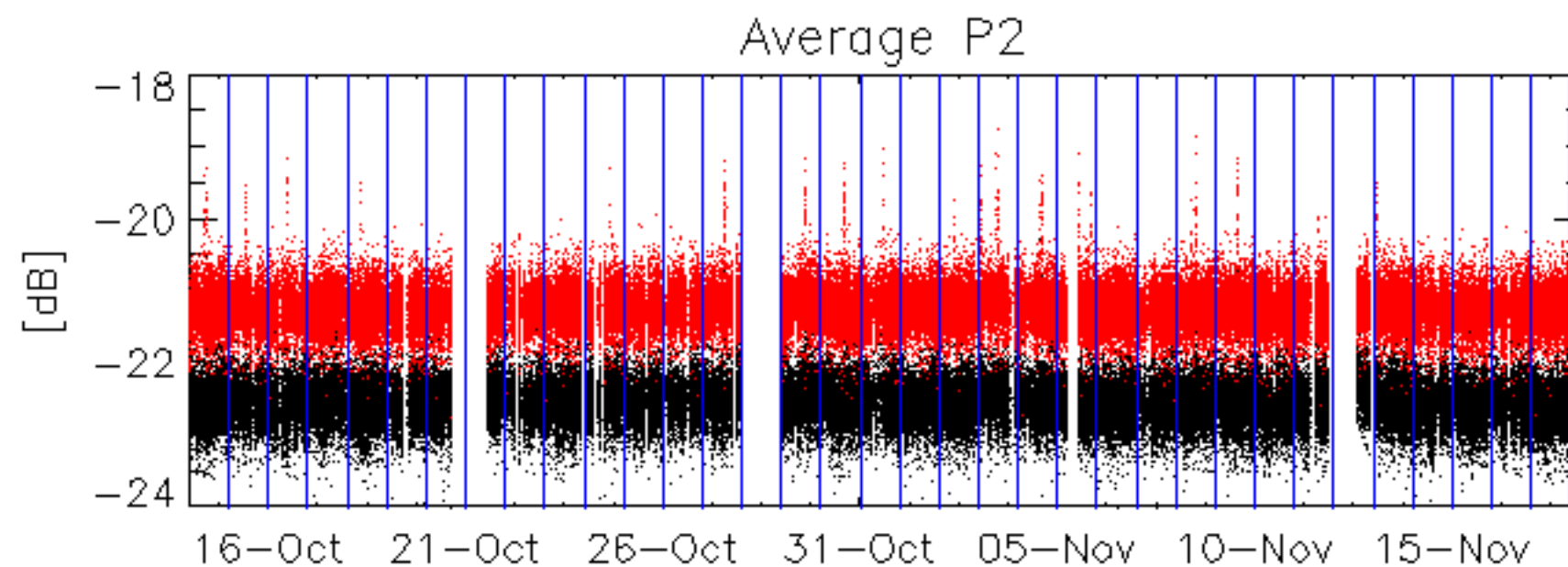
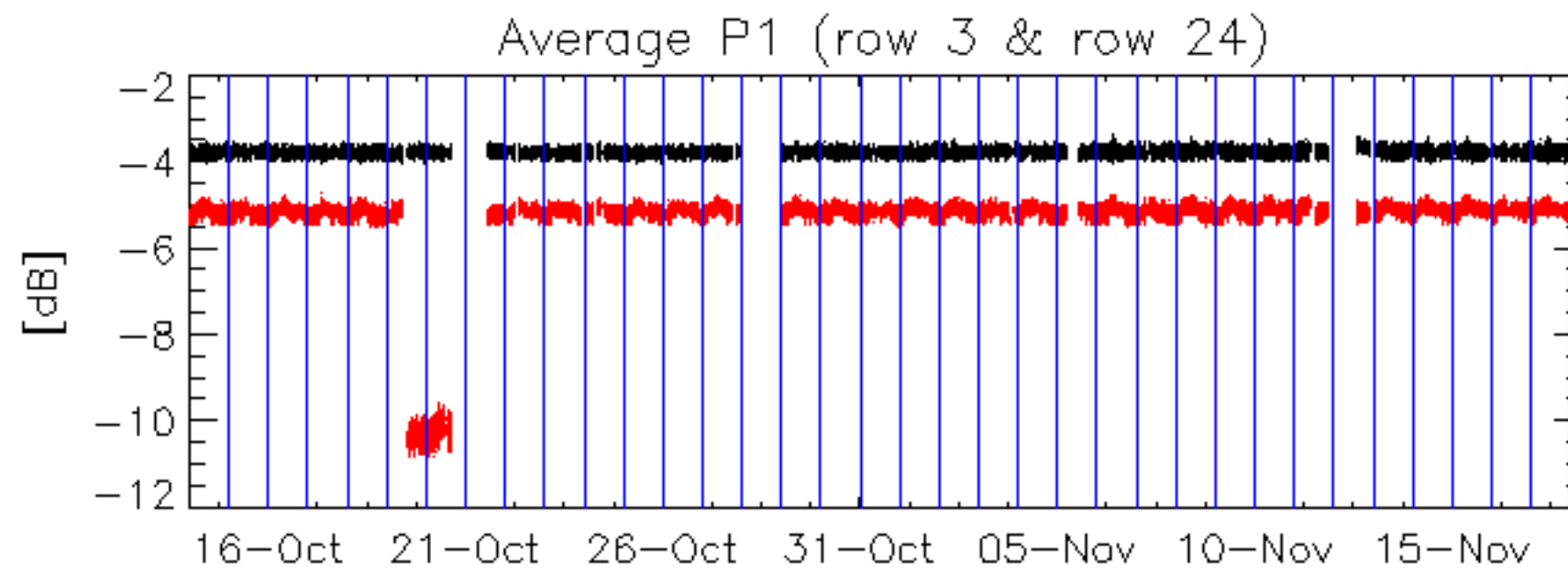
Evolution of unbiased Doppler error (Real - Expected)
Ascending
Descending

6.2 - Absolute Doppler

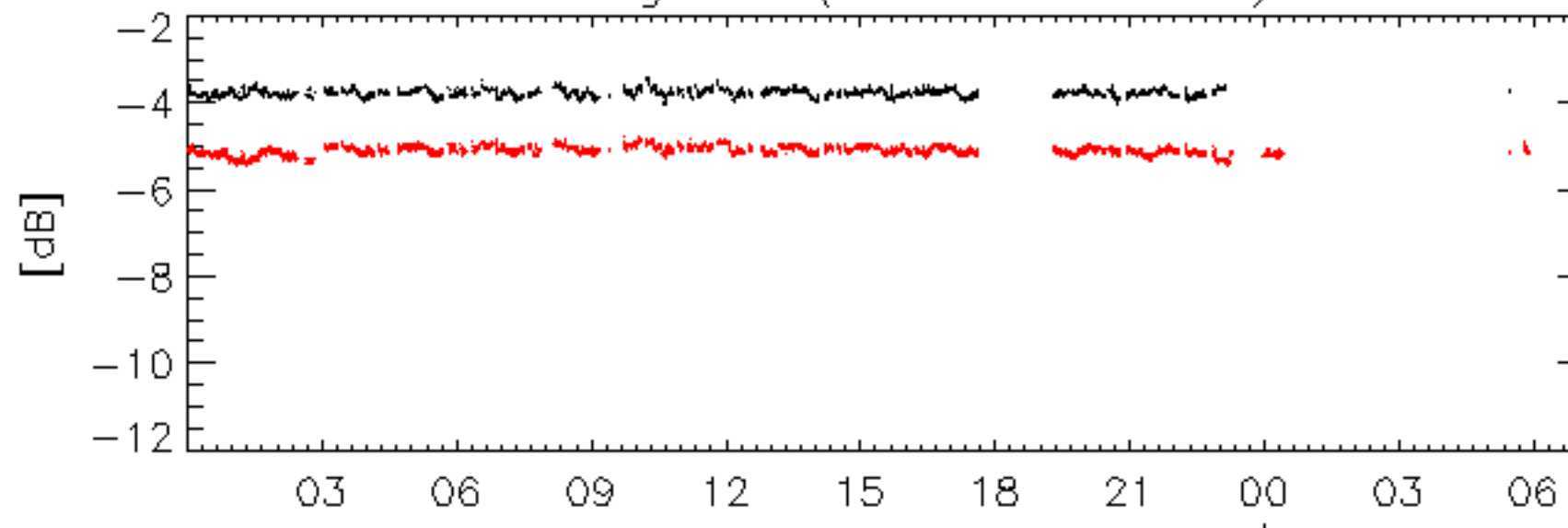
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX

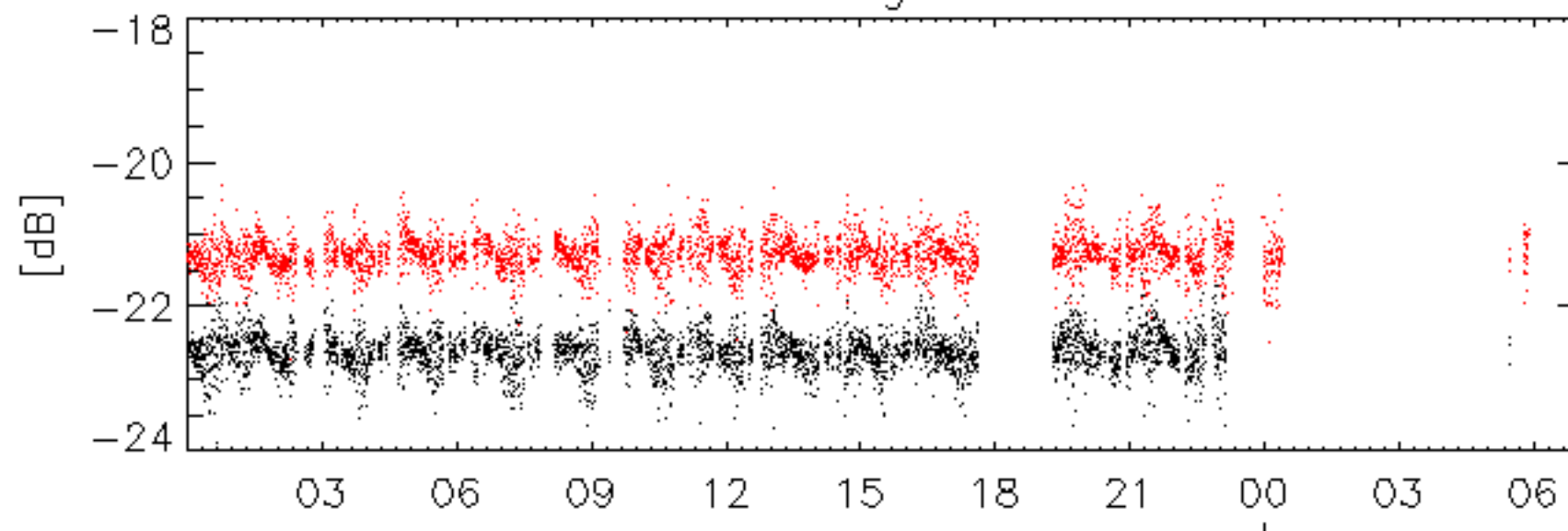



Average P1 (row 3 & row 24)



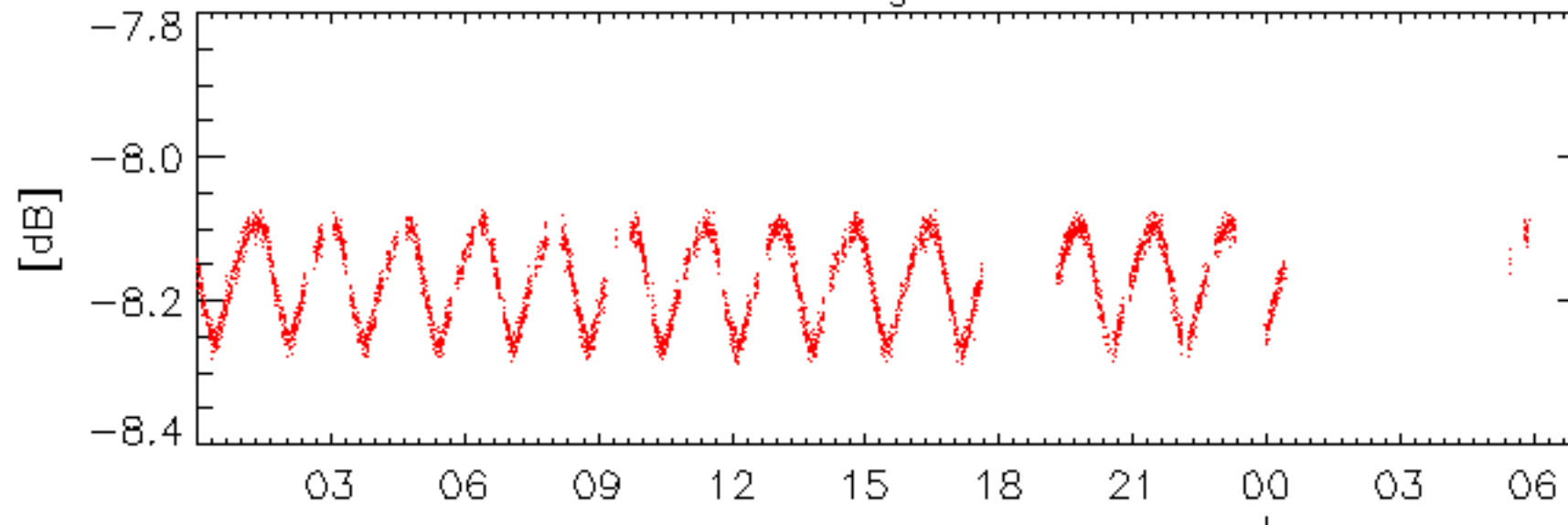
18-Nov

Average P2



18-Nov

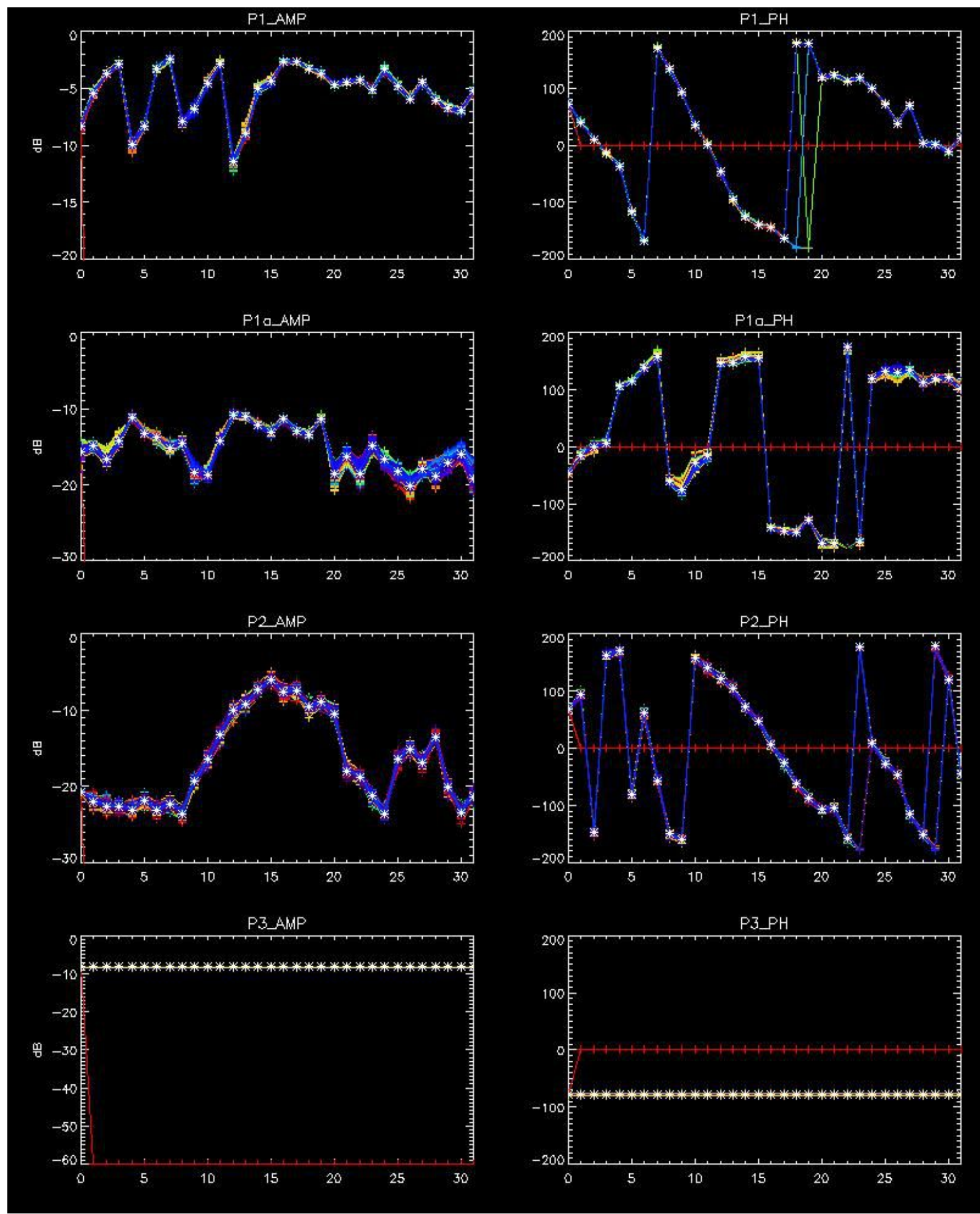
Average P3



18-Nov

No anomalies observed on available browse products.

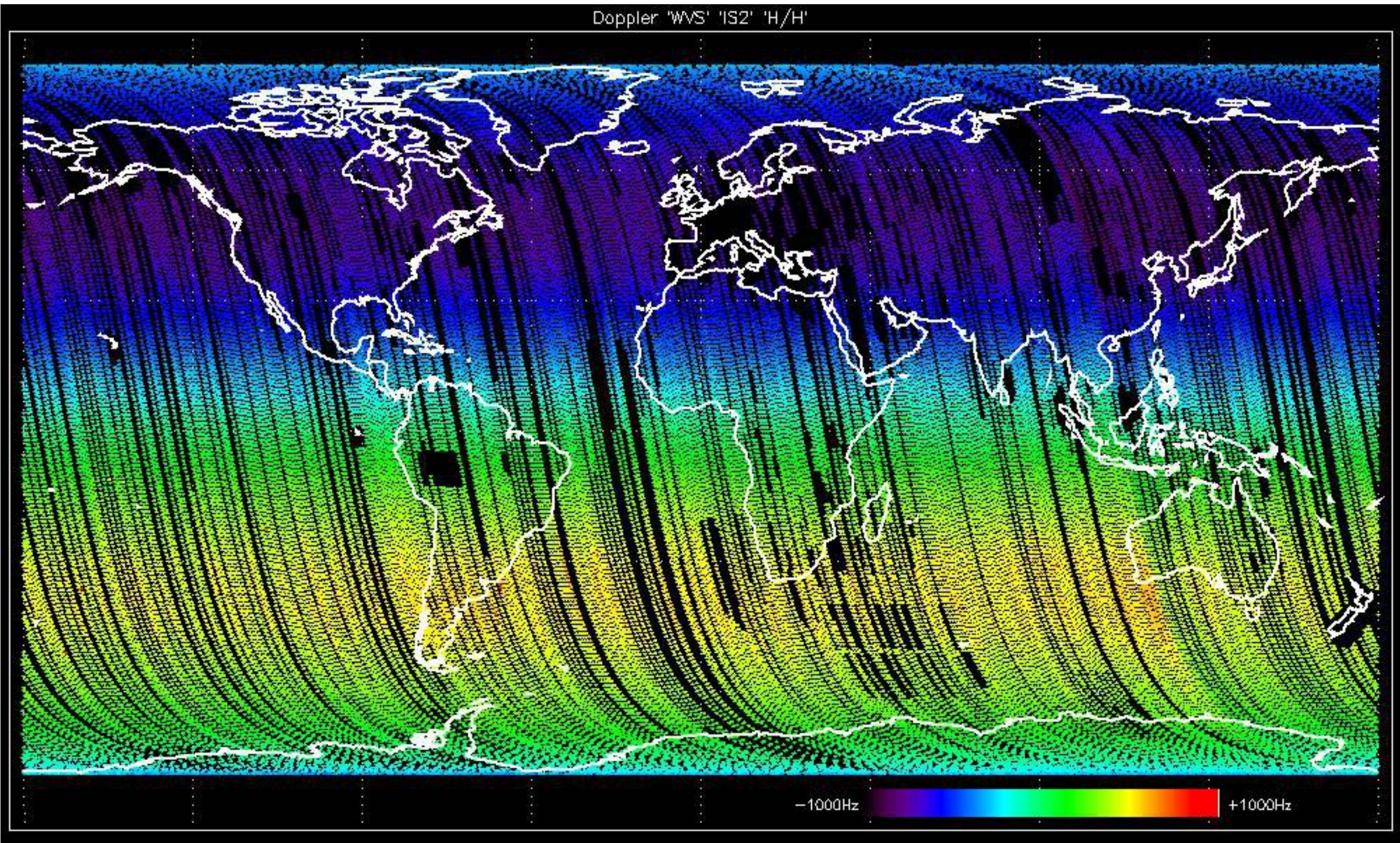
No anomalies observed.



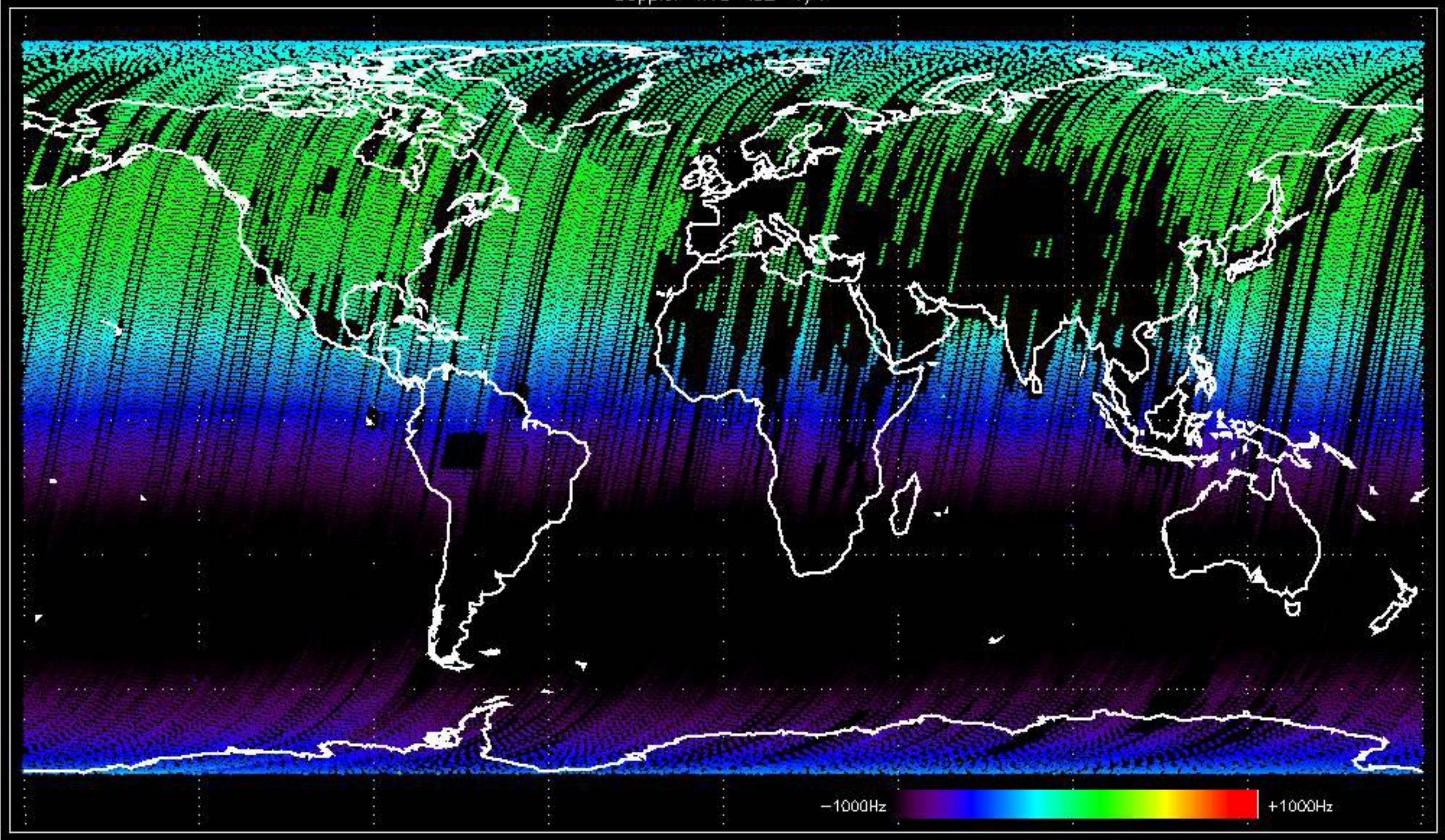
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

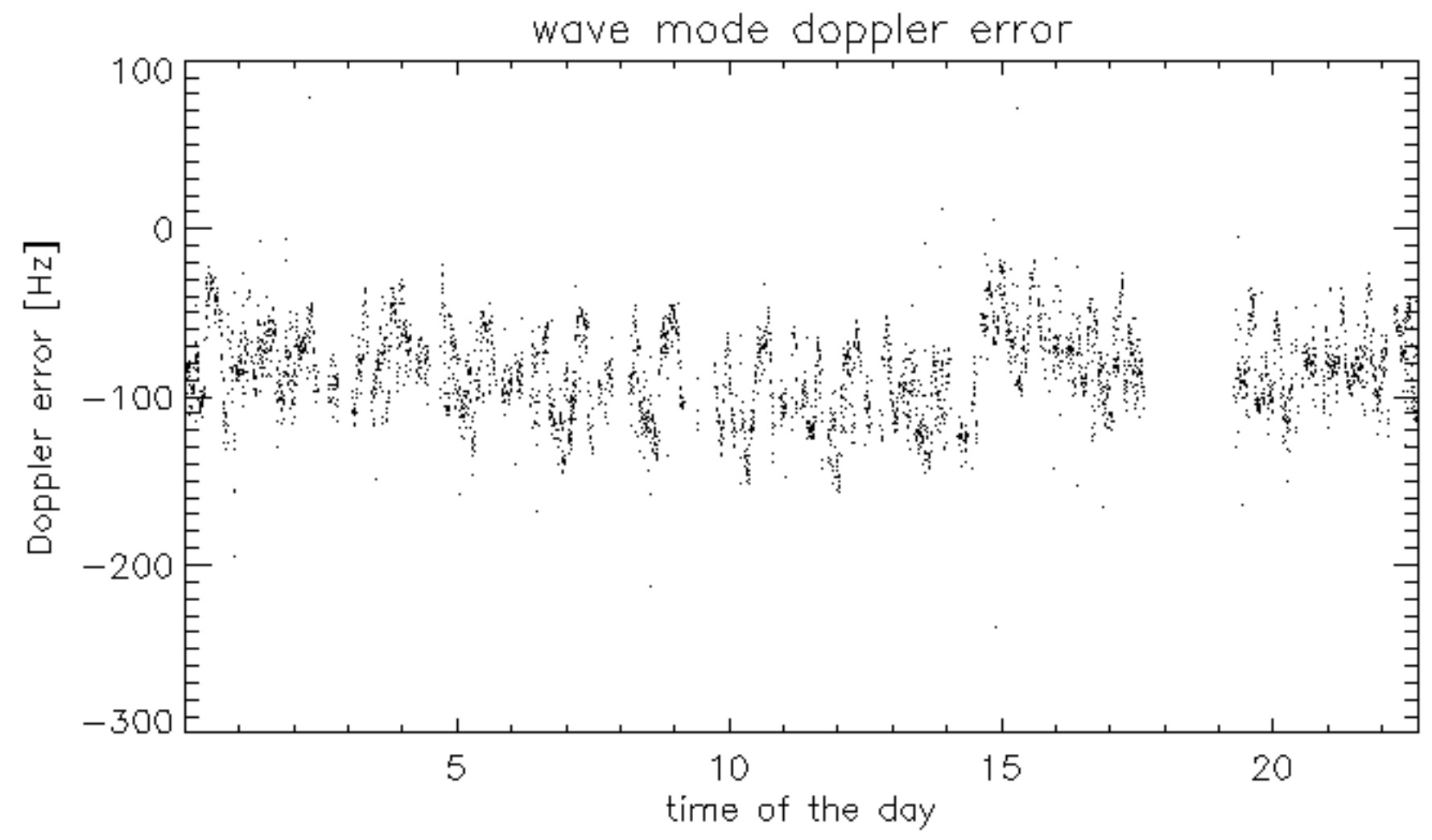
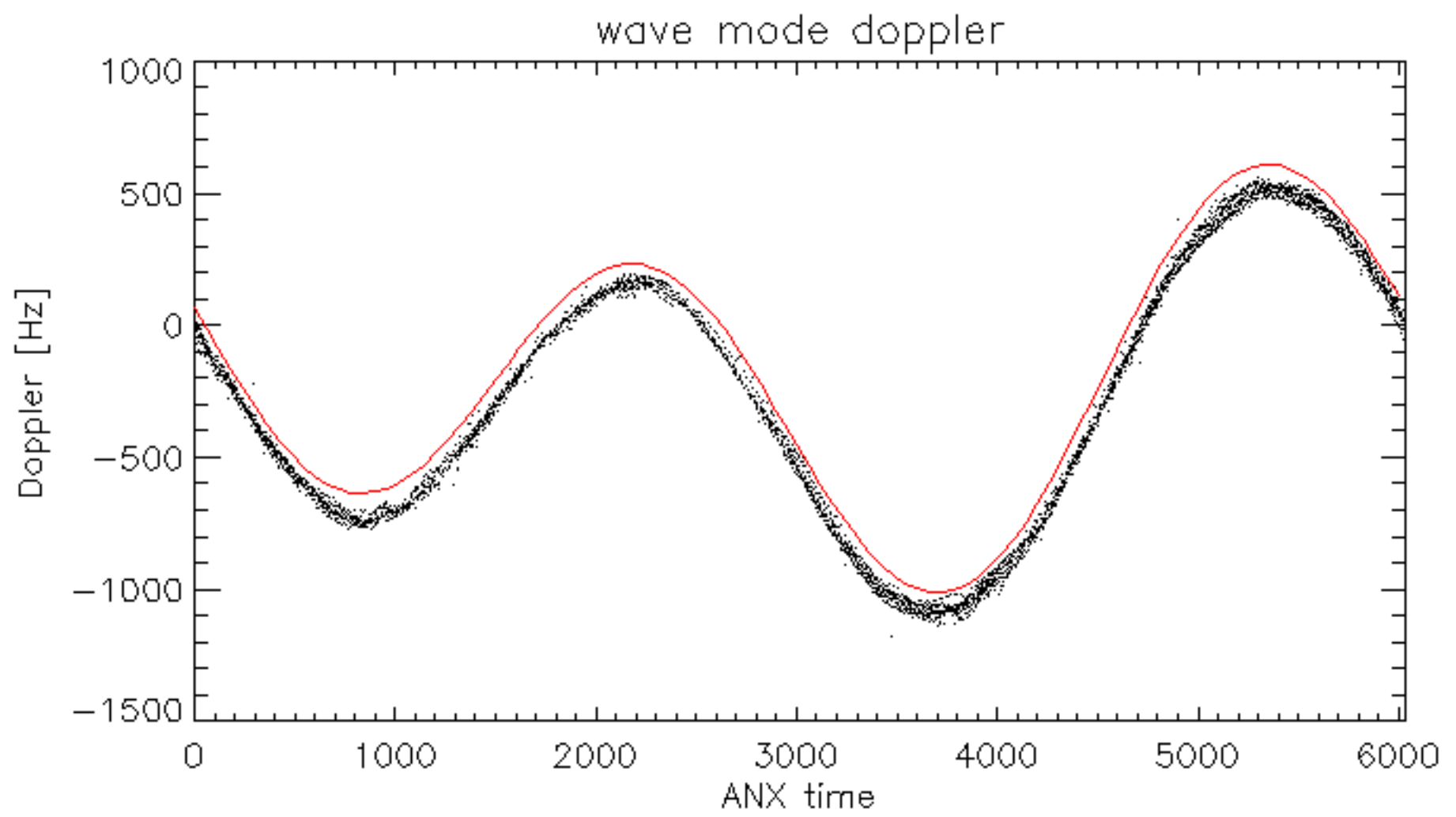
No anomalies observed in Doppler evolution.
Doppler analysis performed over the last 35 days.

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

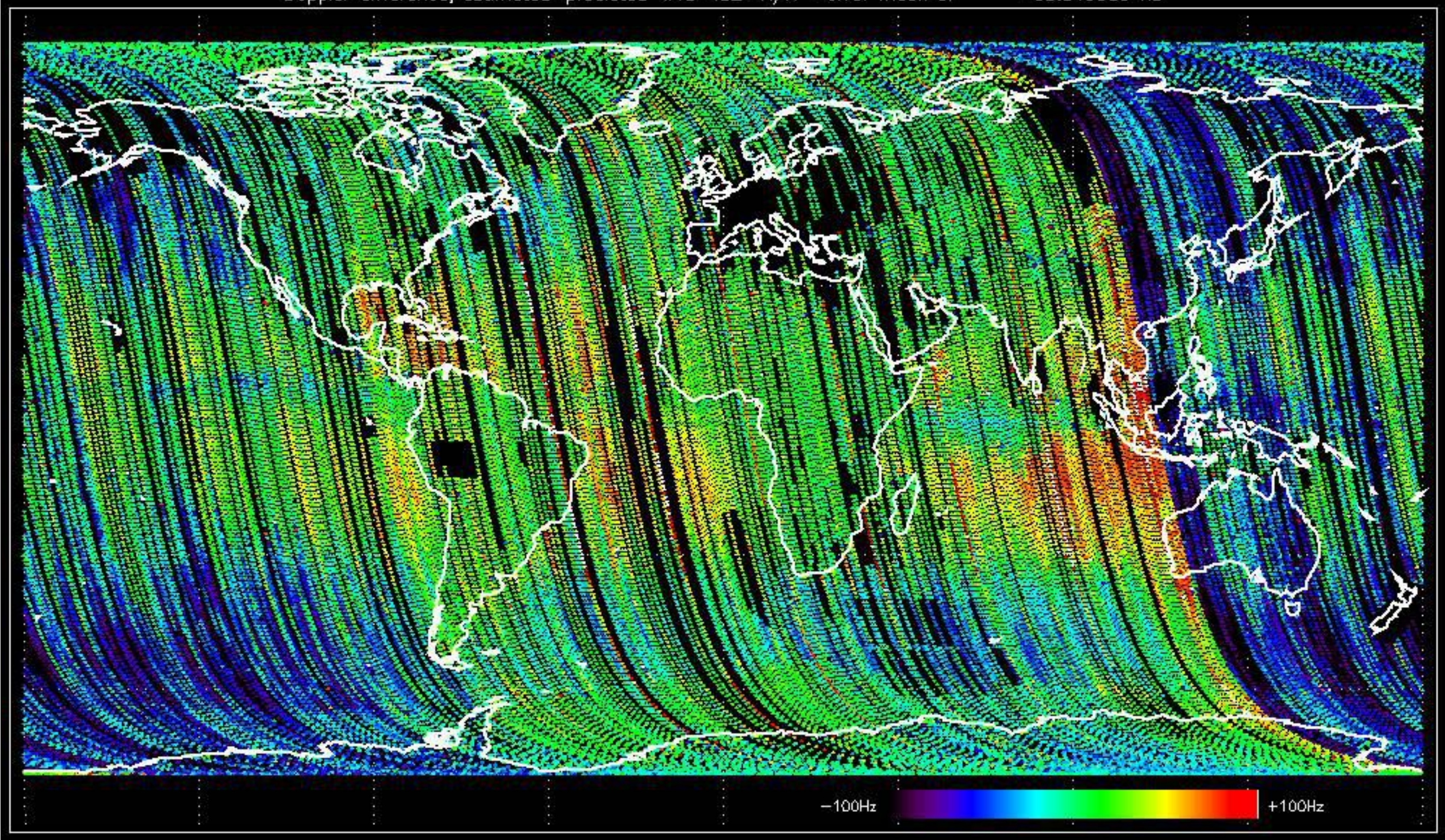


Doppler 'WVS' 'IS2' 'V/V'



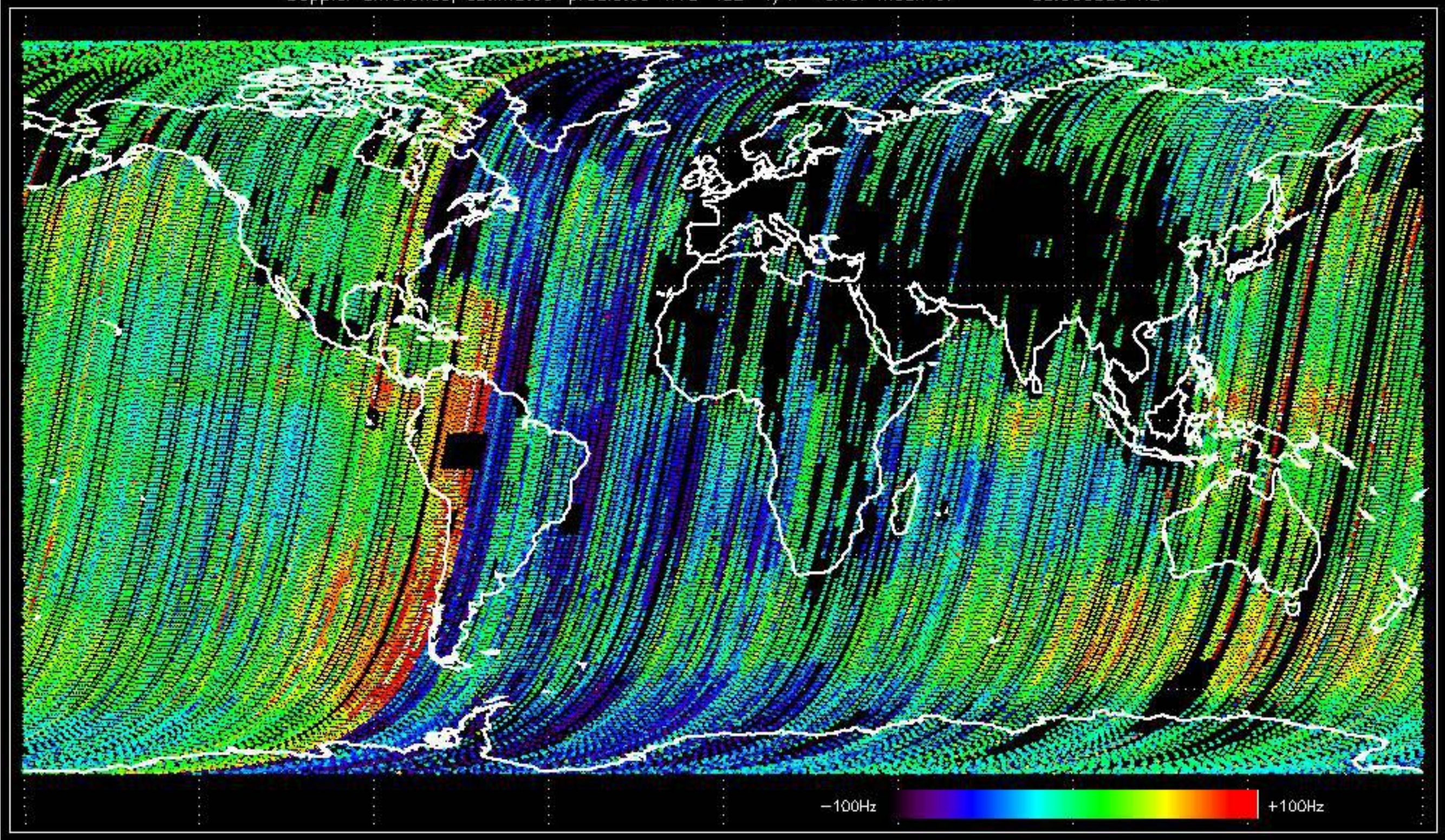


Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -93.349080 Hz



-100Hz +100Hz

Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -88.666350 Hz

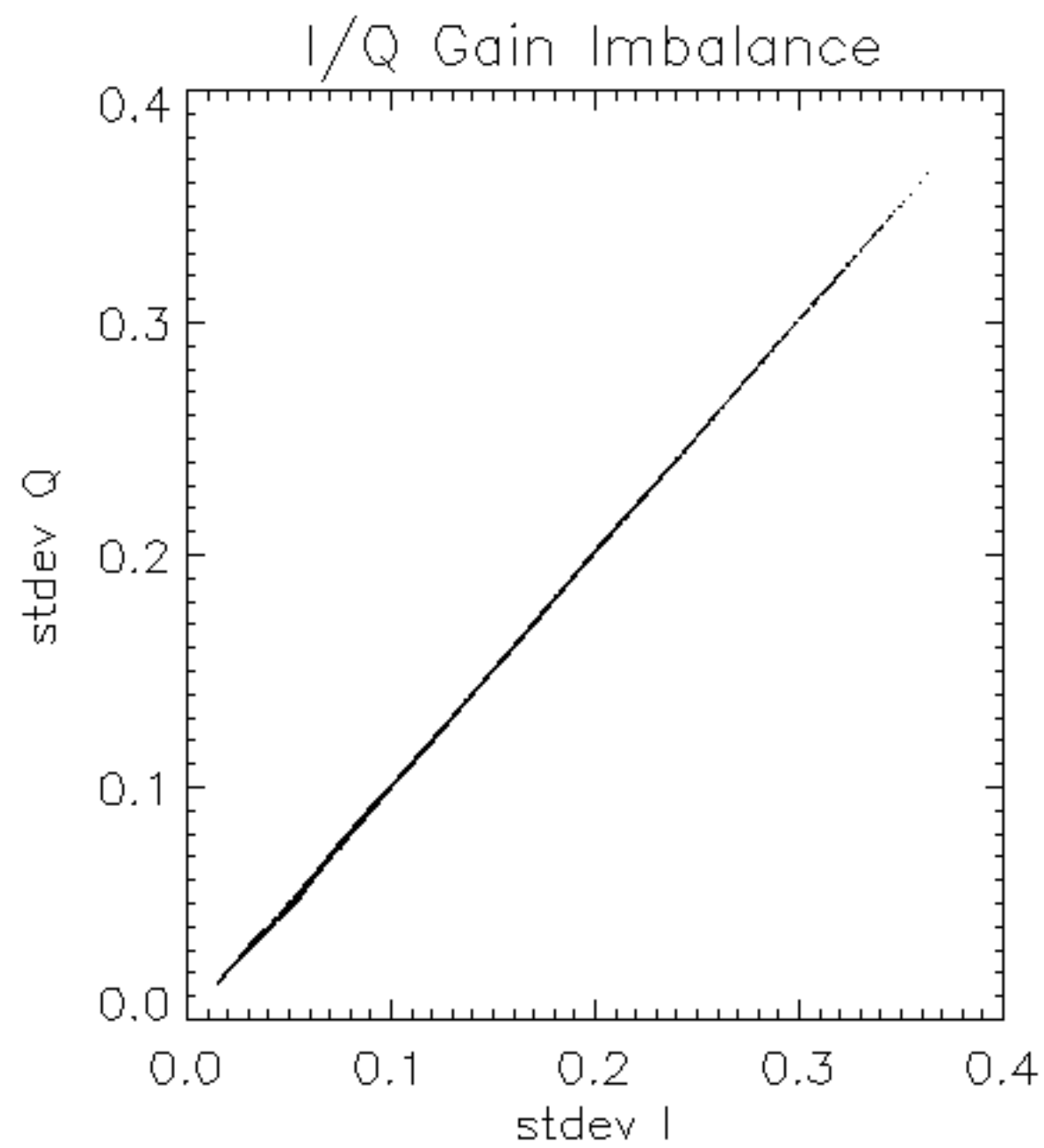


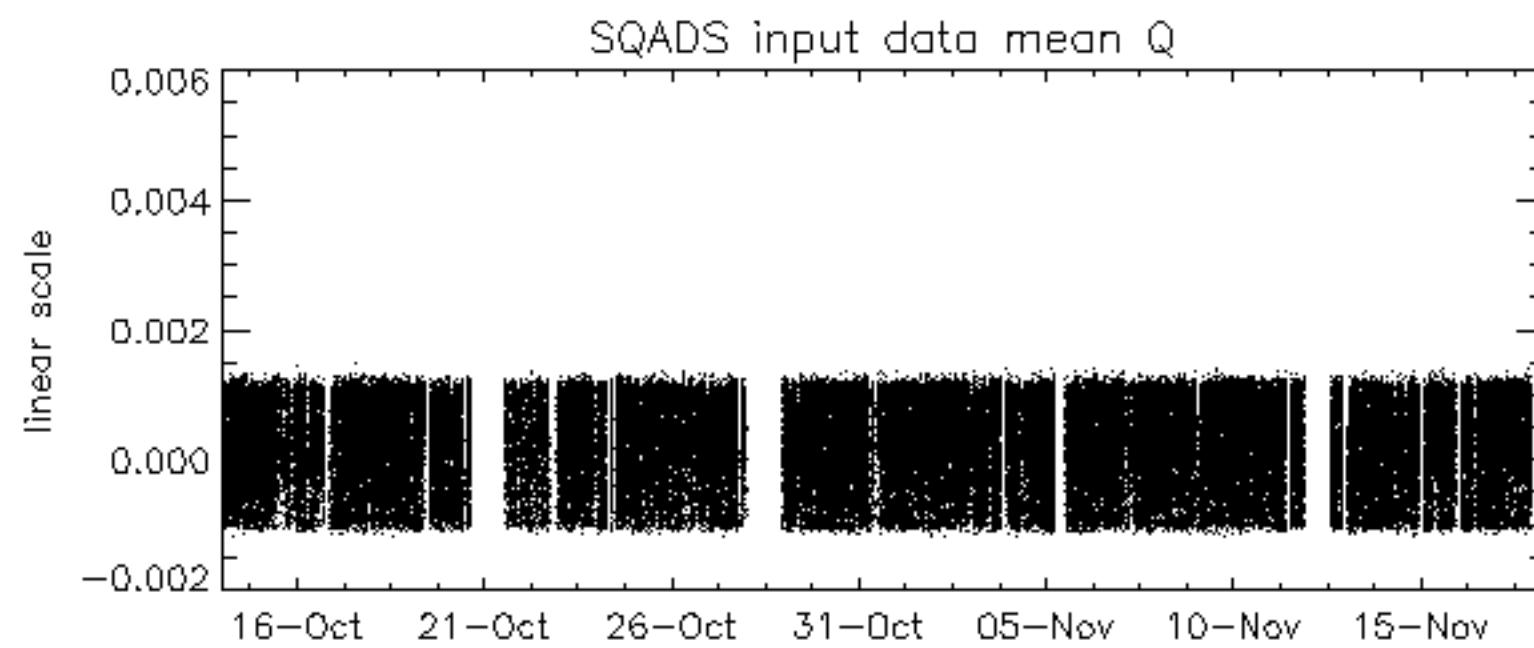
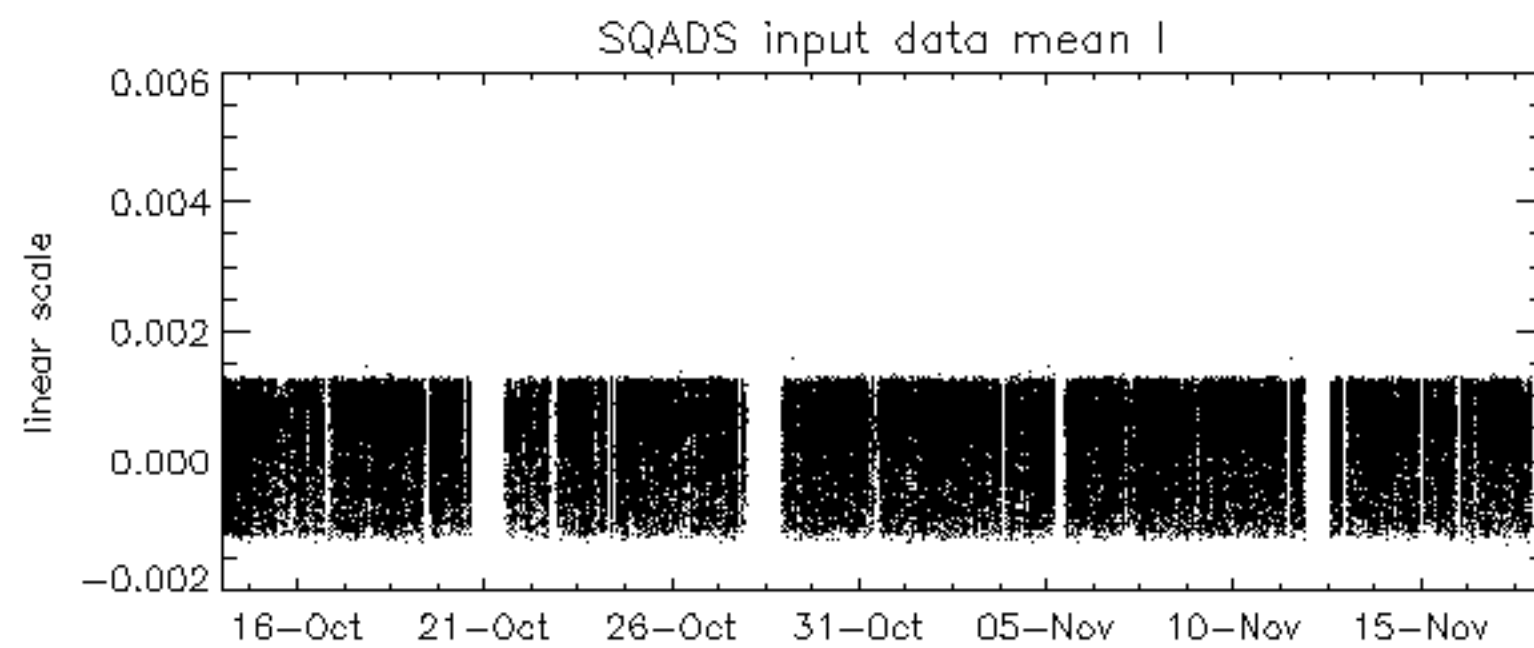
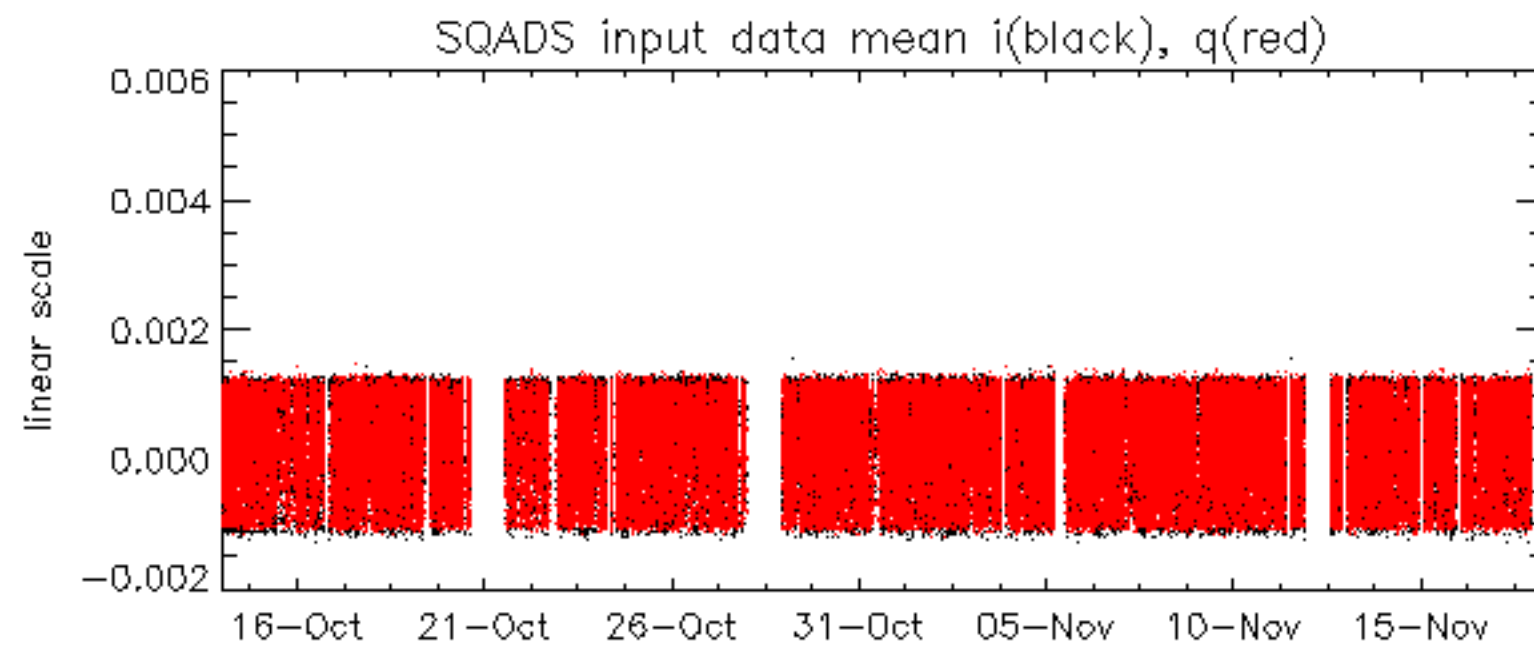
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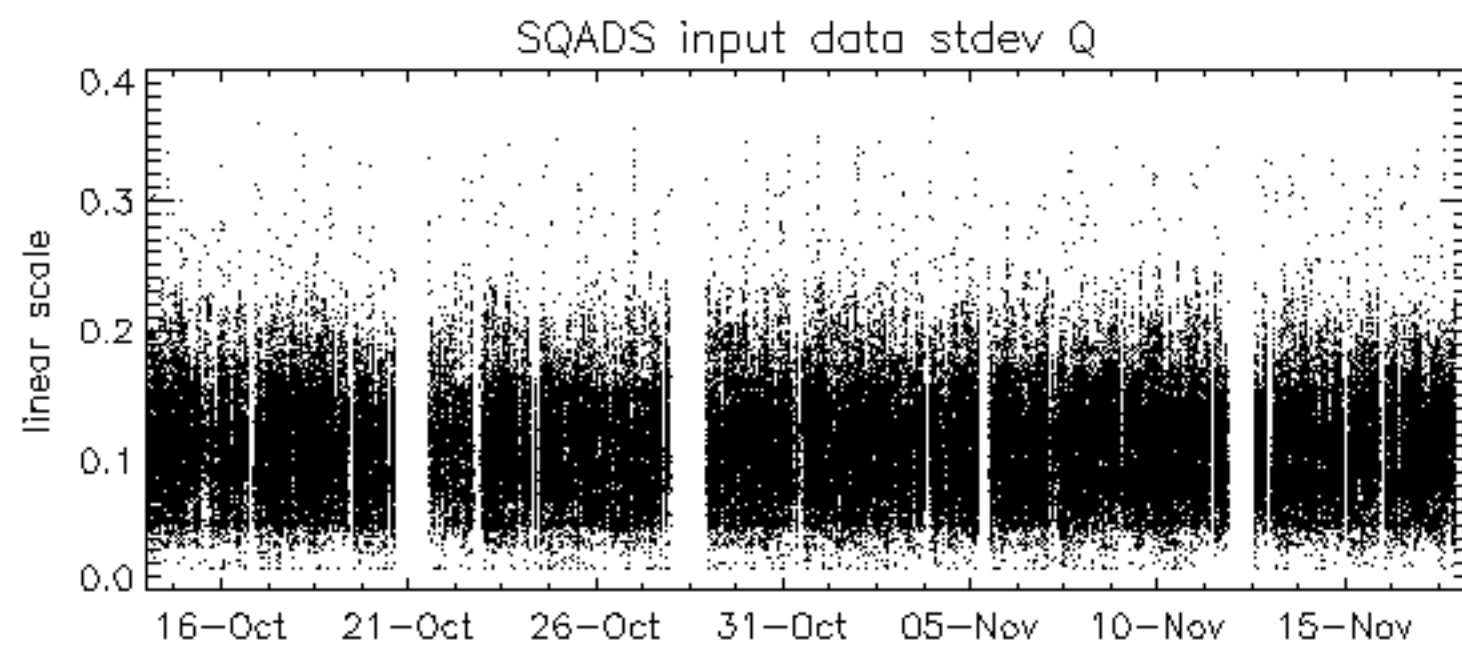
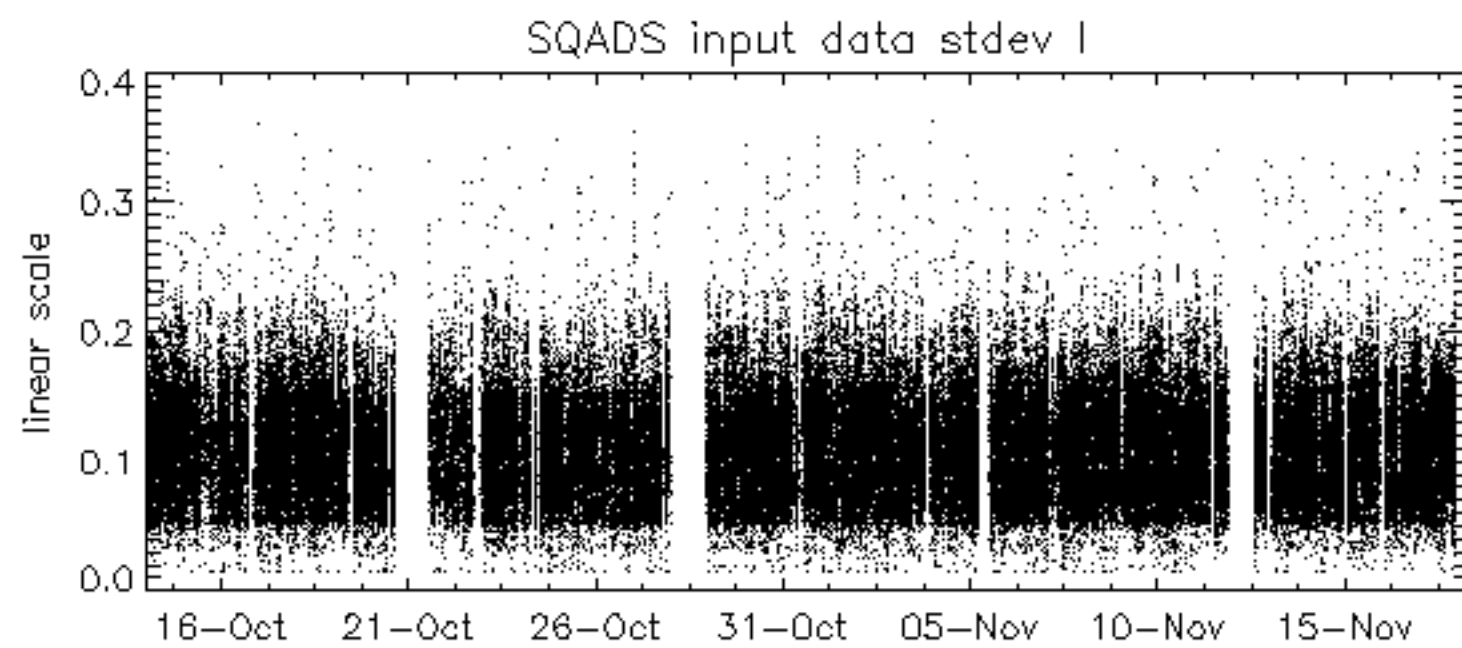
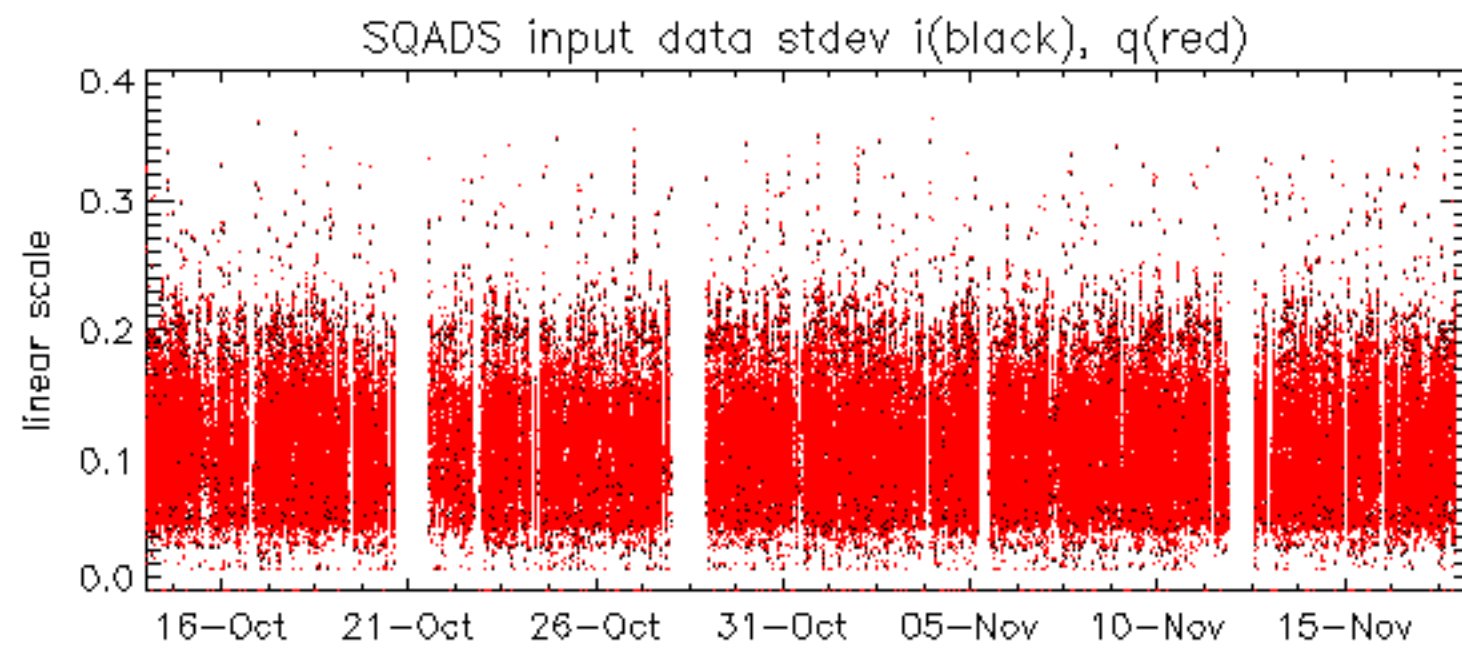
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No anomalies observed.







No unavailabilities during the reported period.