

REPORT OF 031024

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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.

Due to problems on the PCF analysis tool, the last available MS products can not have been controlled

MSM in V/V polarisation

MSM in H/H polarisation

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79546	-22.5418	-8.15854
	stdev	0.00526134	0.0609158	0.00272886
24	mean	-5.14934	-21.2224	-8.15854
	stdev	0.0111918	0.0534682	0.00272886



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79555	-22.5410	-8.13891
	stdev	0.00546295	0.0625334	0.00251160
24	mean	-5.36680	-21.2733	-8.13891

stdev	0.852074	0.0594579	0.00251160
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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	0.000366859
	stdev	3.60470e-07
MEAN Q	mean	0.000282437
	stdev	3.32449e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.114376
	stdev	0.00144532
STDEV Q	mean	0.114618
	stdev	0.00146338



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed 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

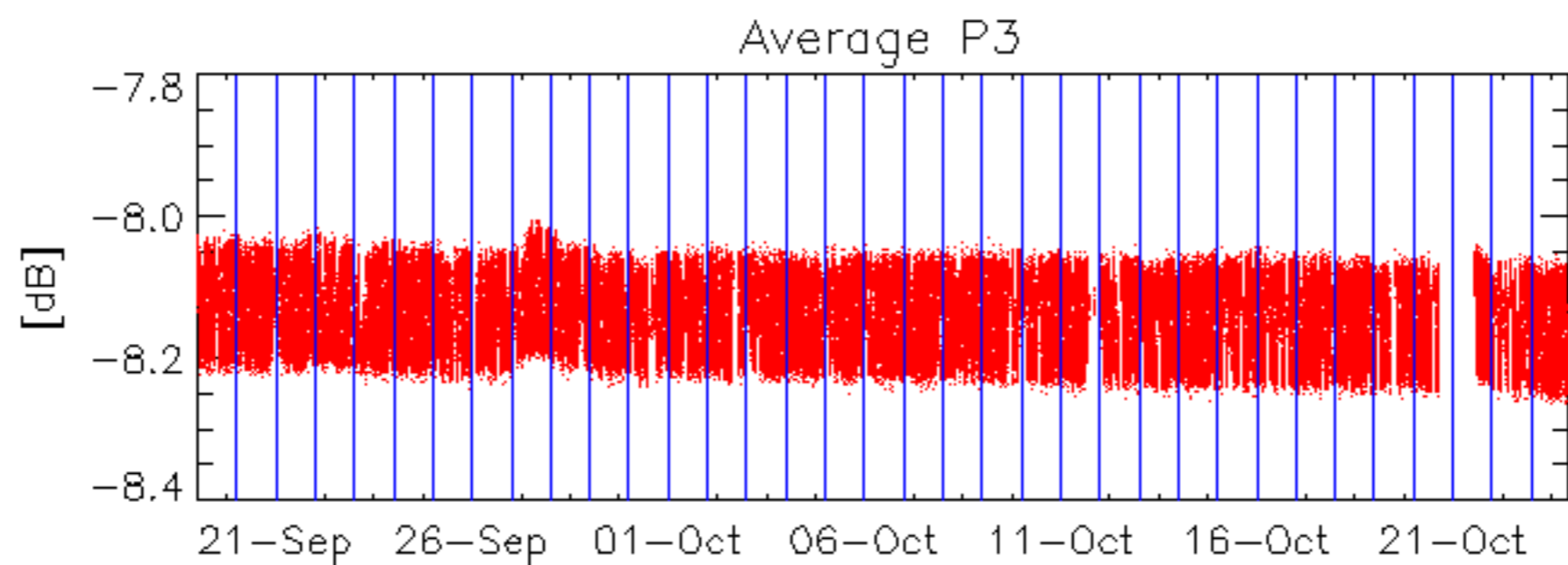
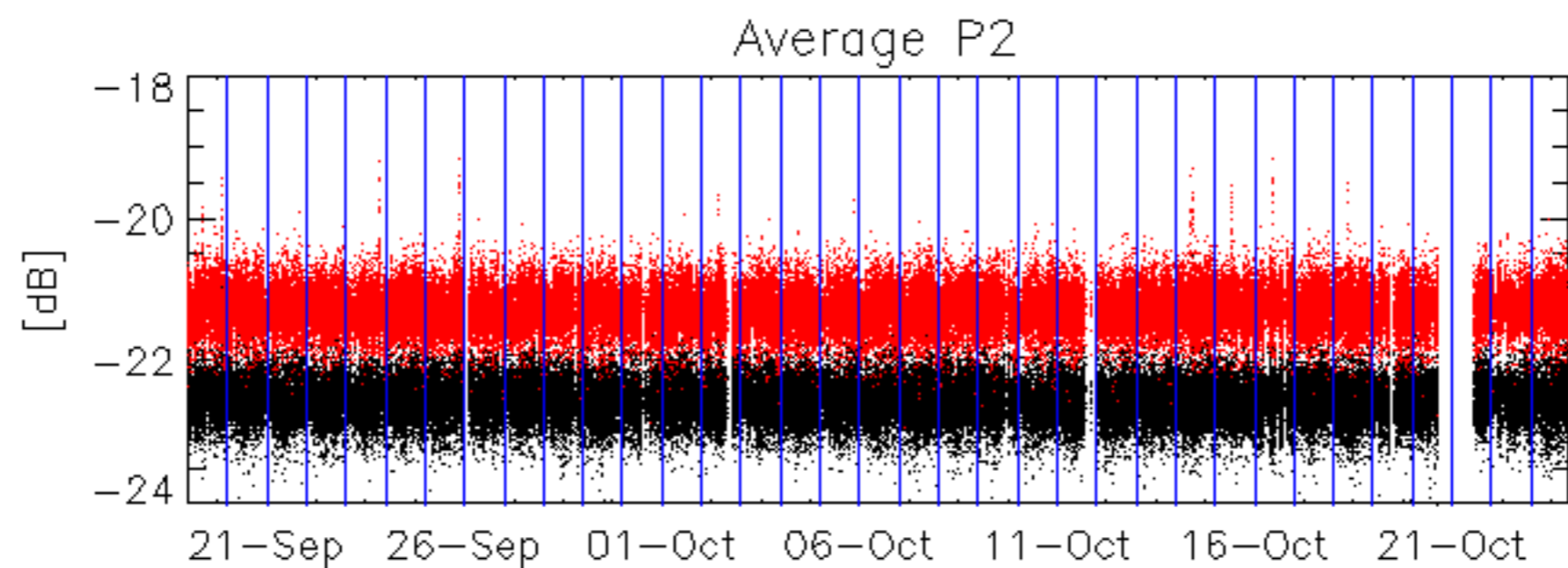
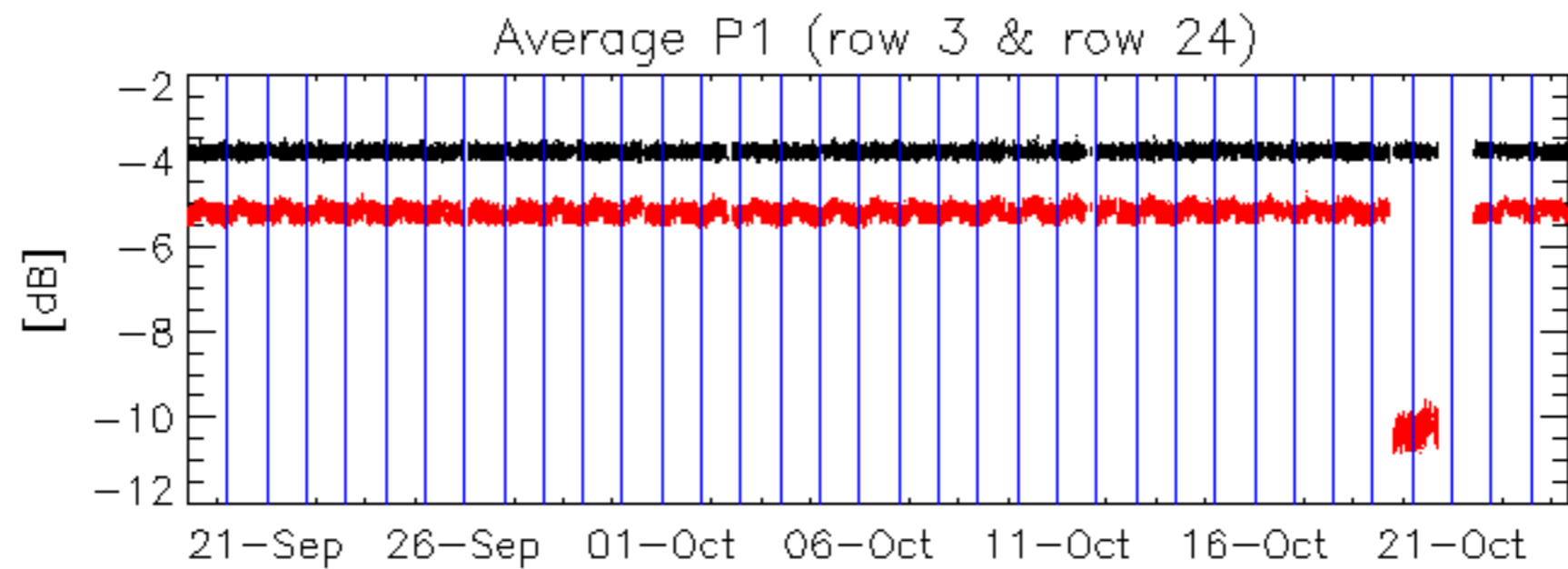
Ascending

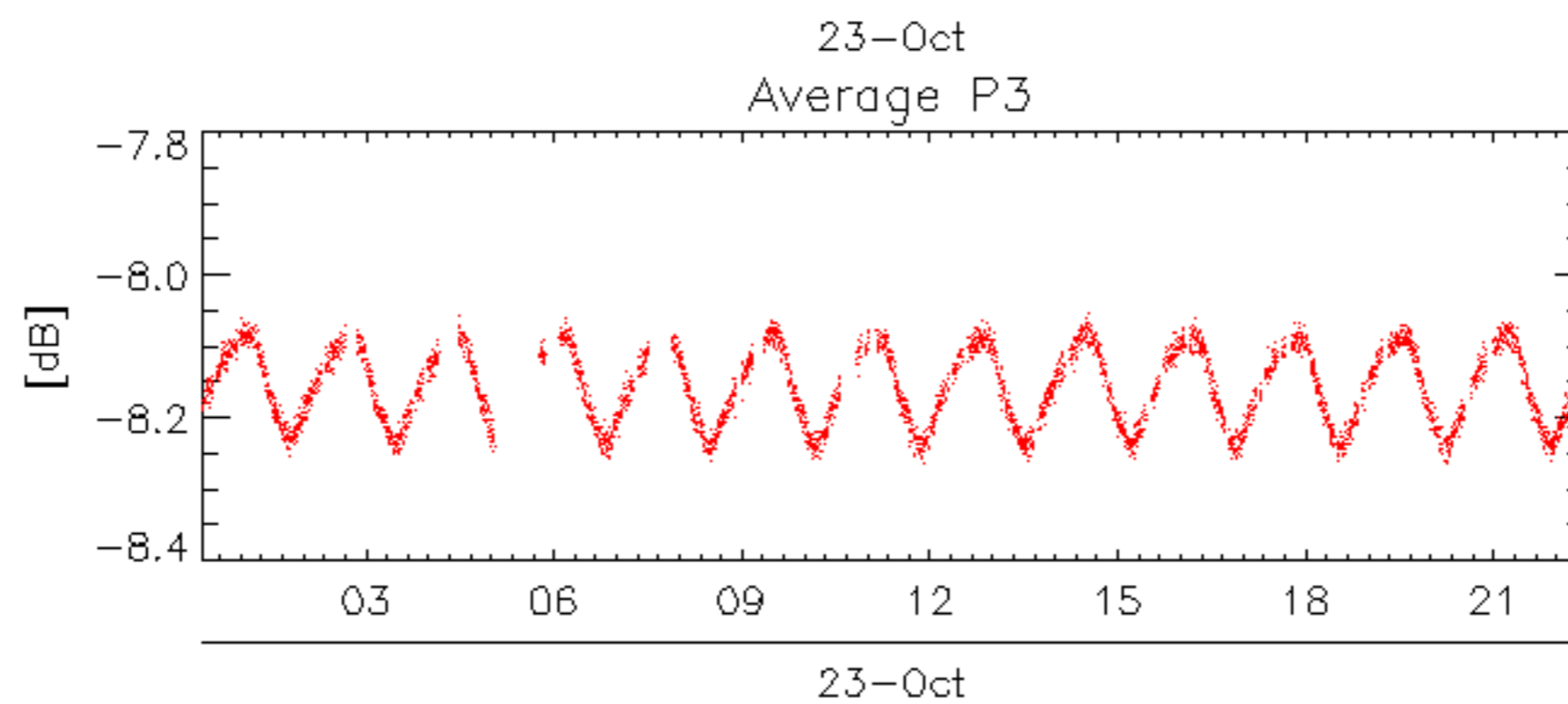
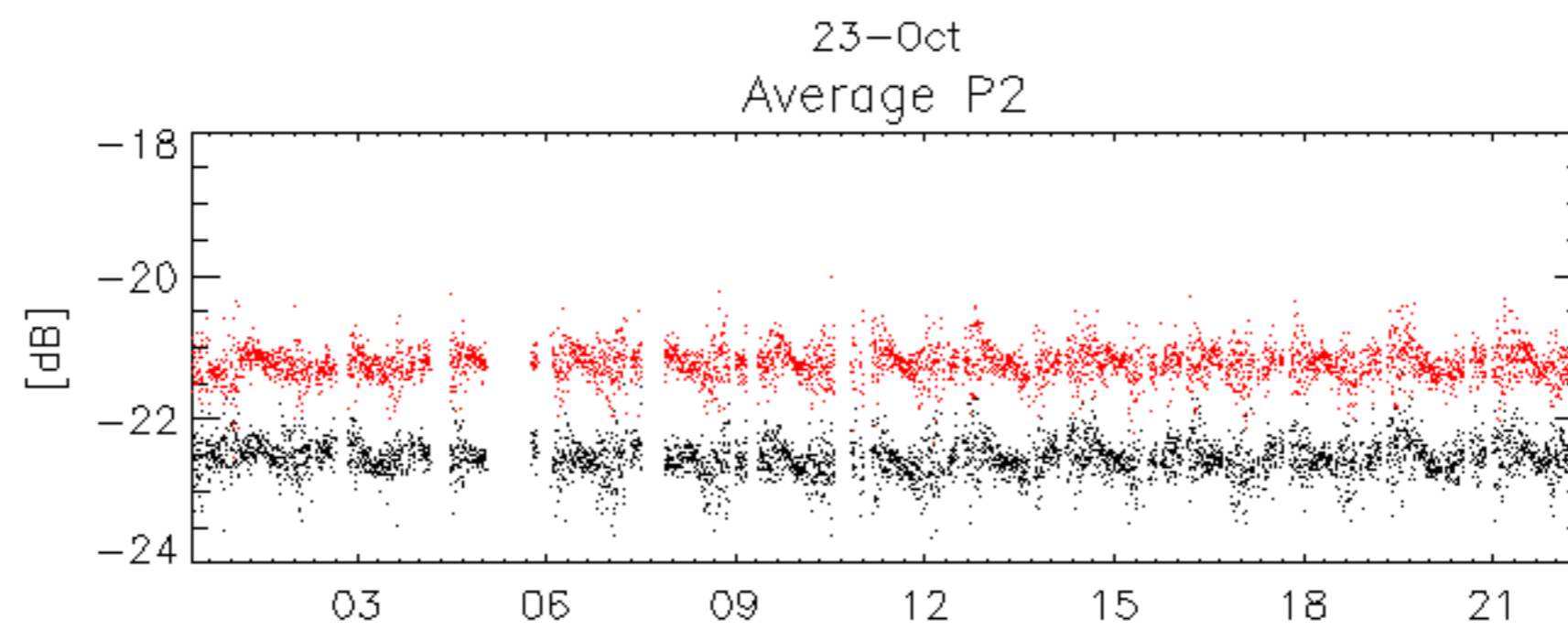
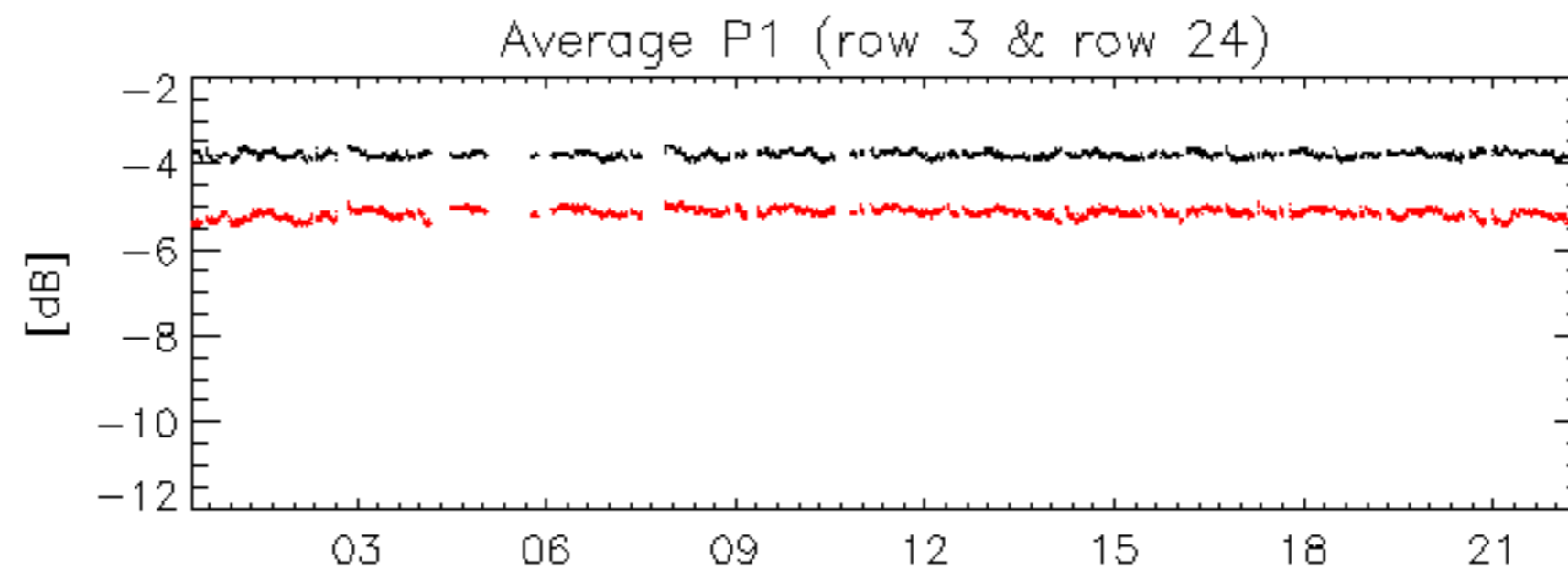
Descending

6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX

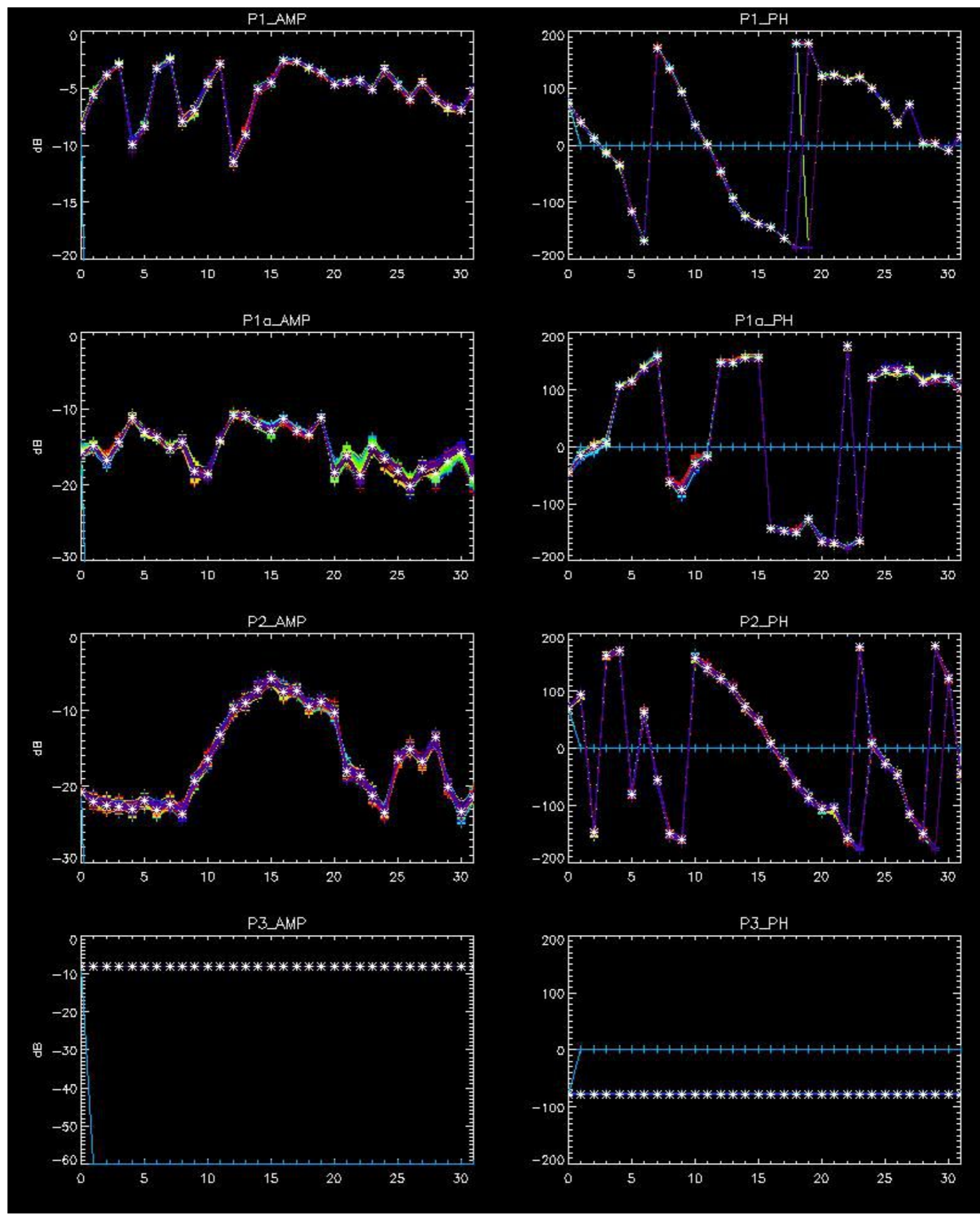






No anomalies observed on available browse products

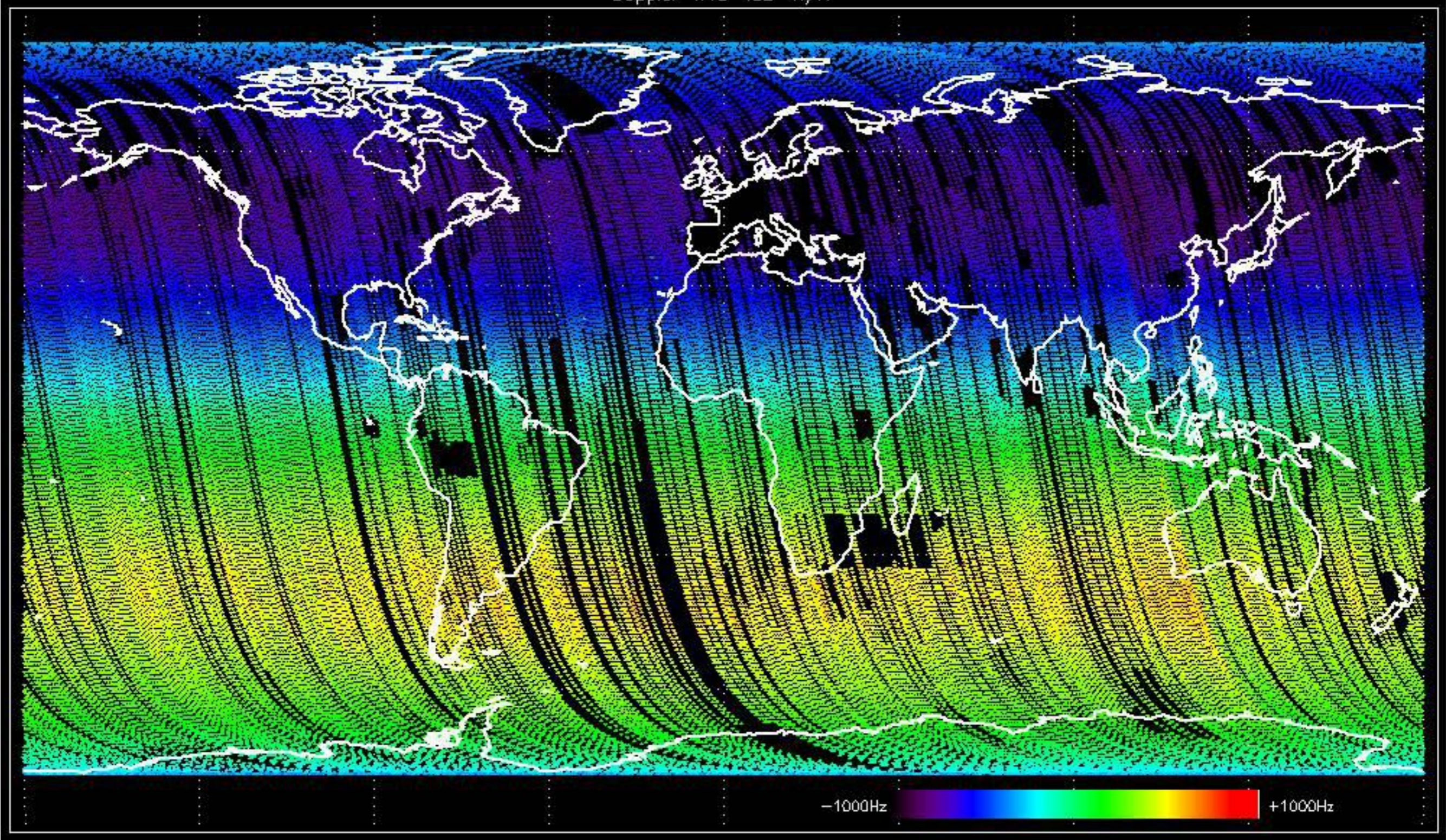
No anomalies observed.



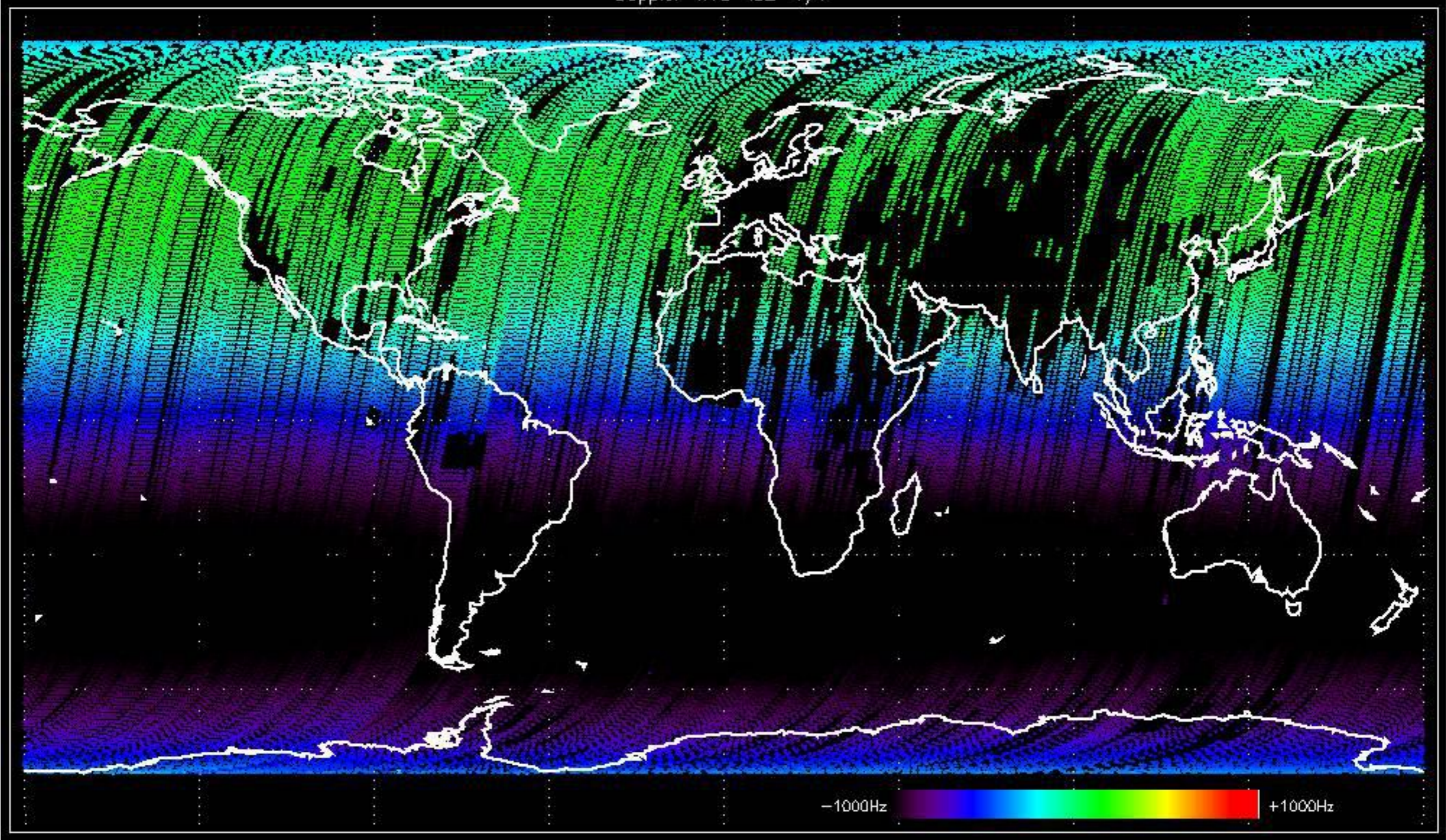
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

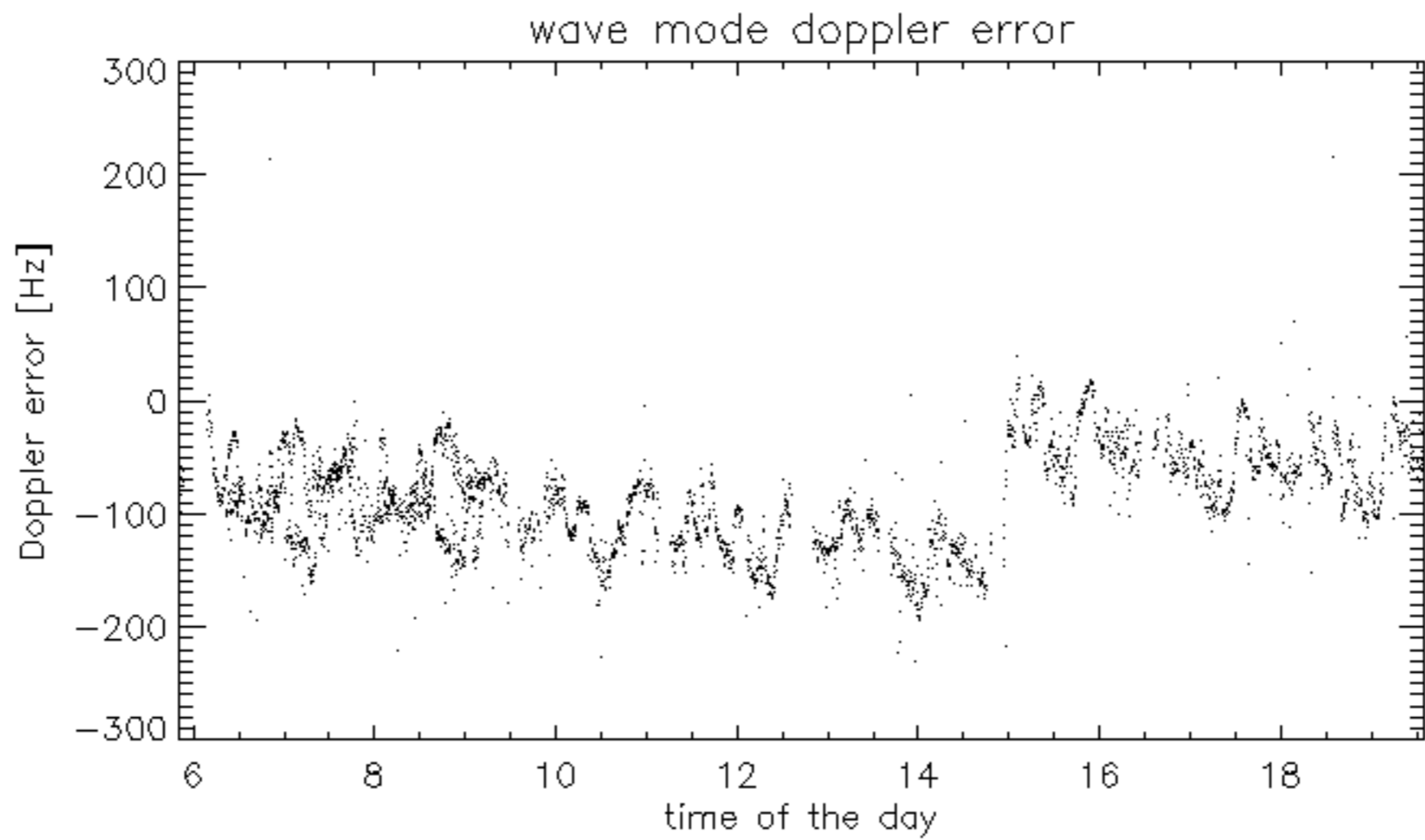
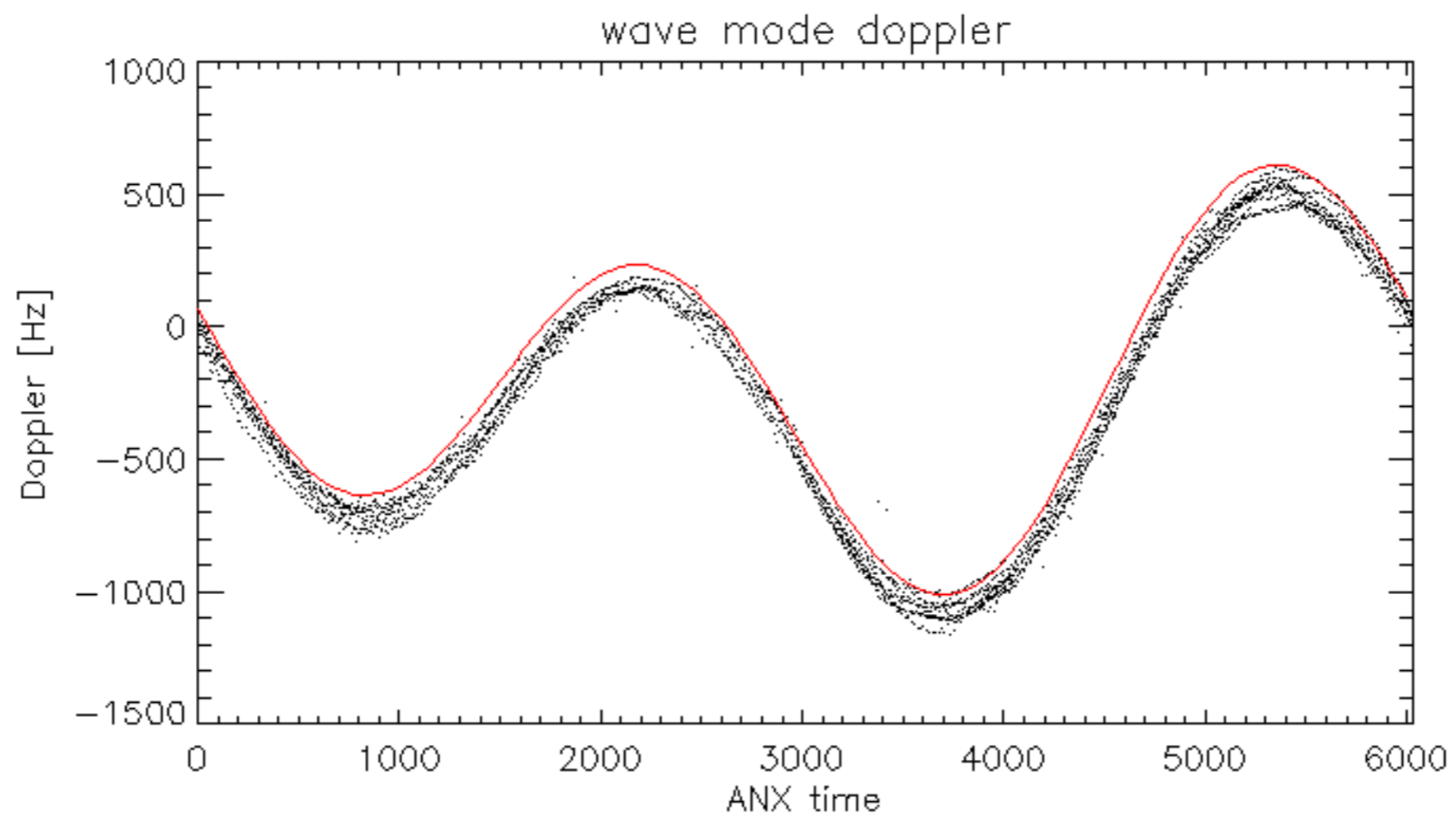
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 35 days

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

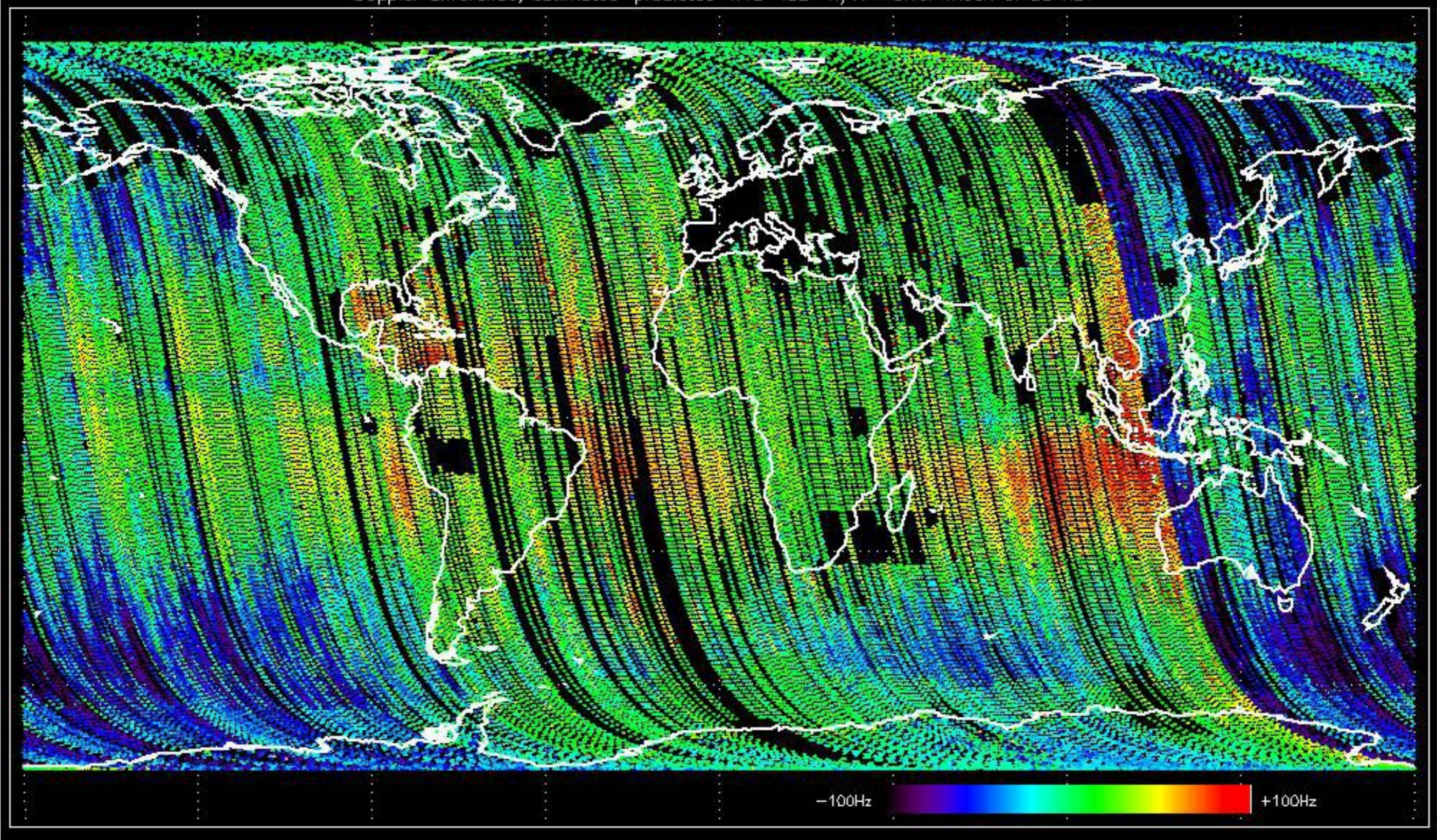


Doppler 'WVS' 'IS2' 'V/V'

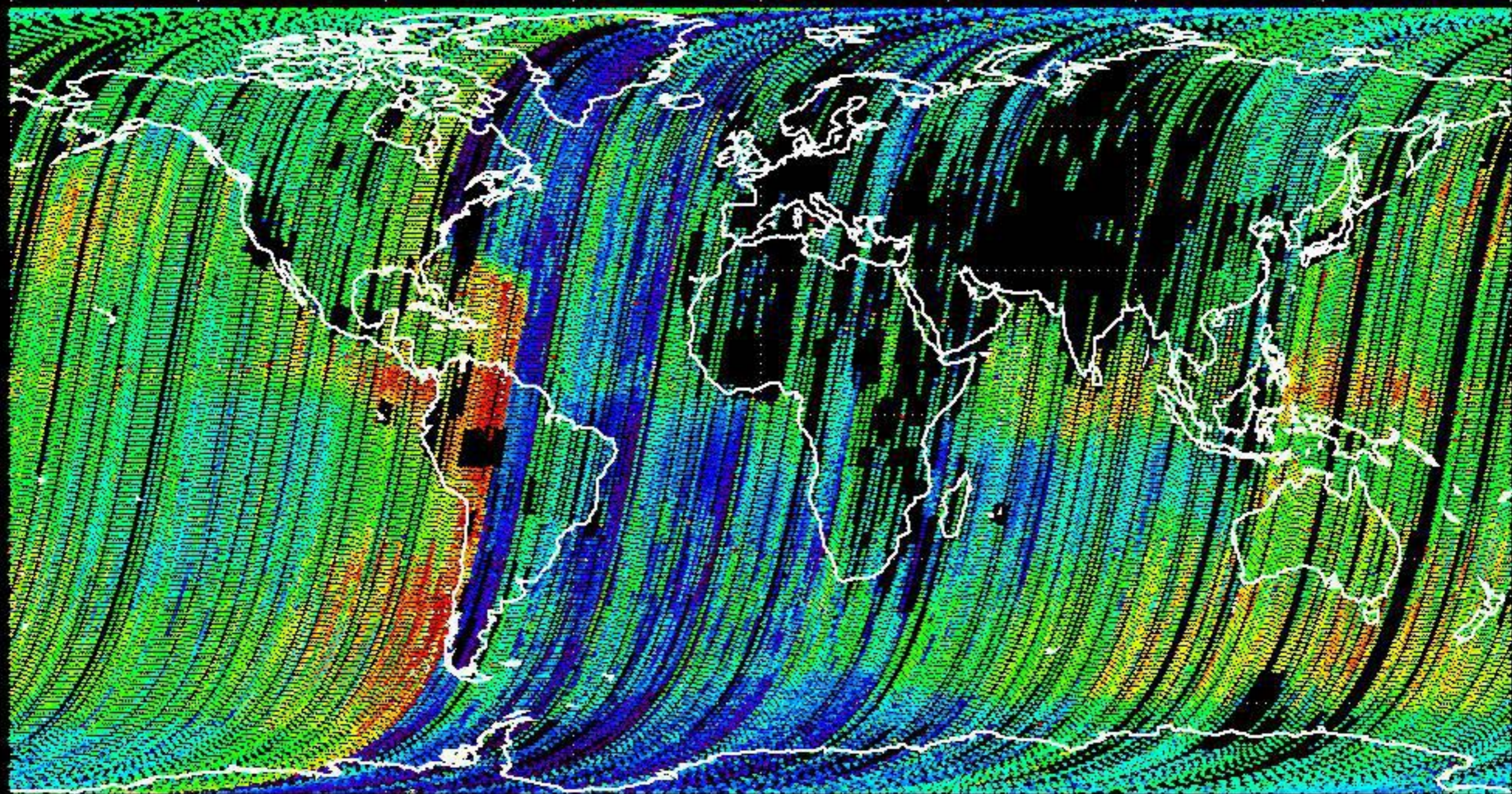




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



Doppler difference, estimated-predicted 'WS' 'IS2' 'V/V' -error mean of 53 Hz



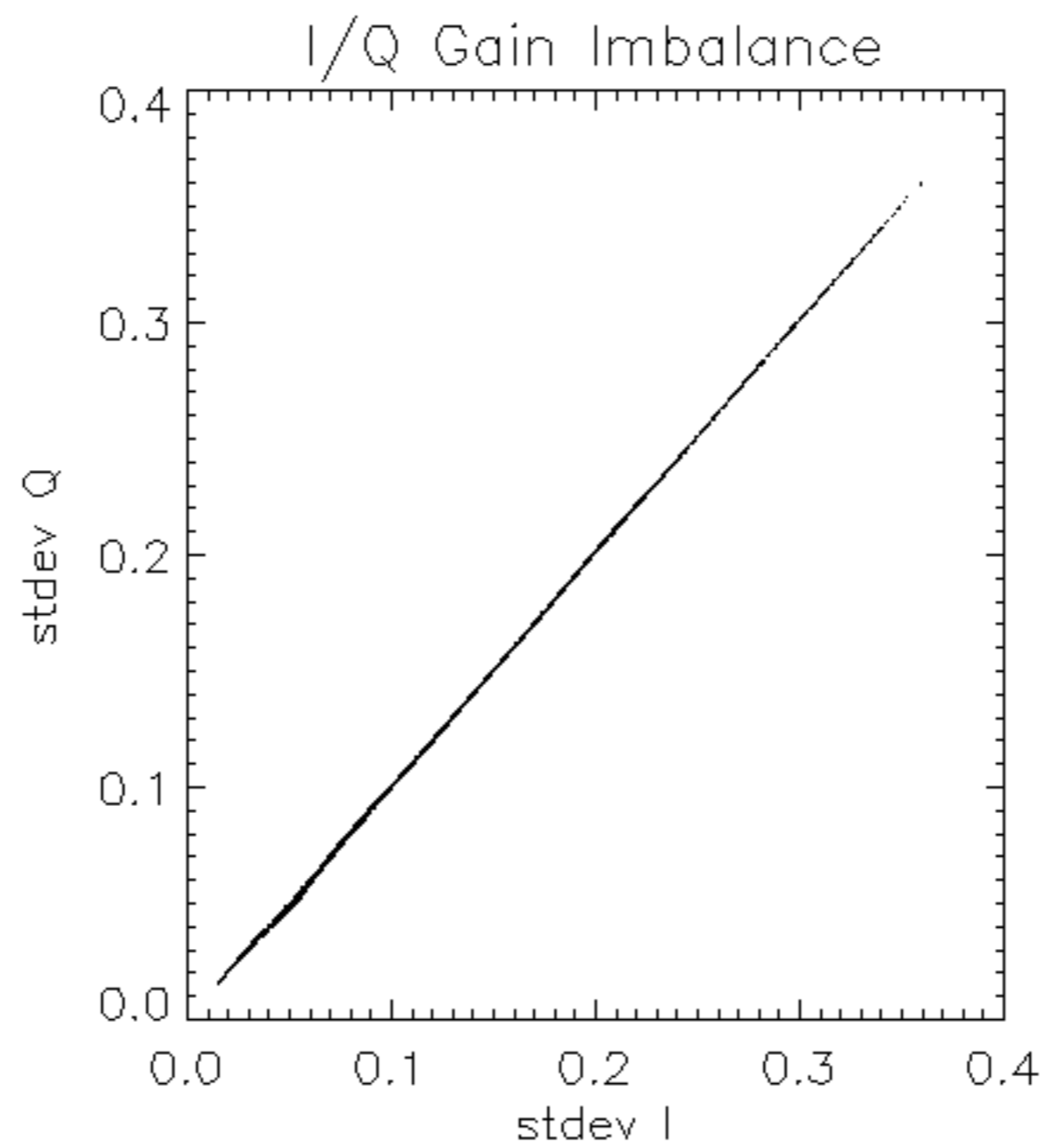
-100Hz

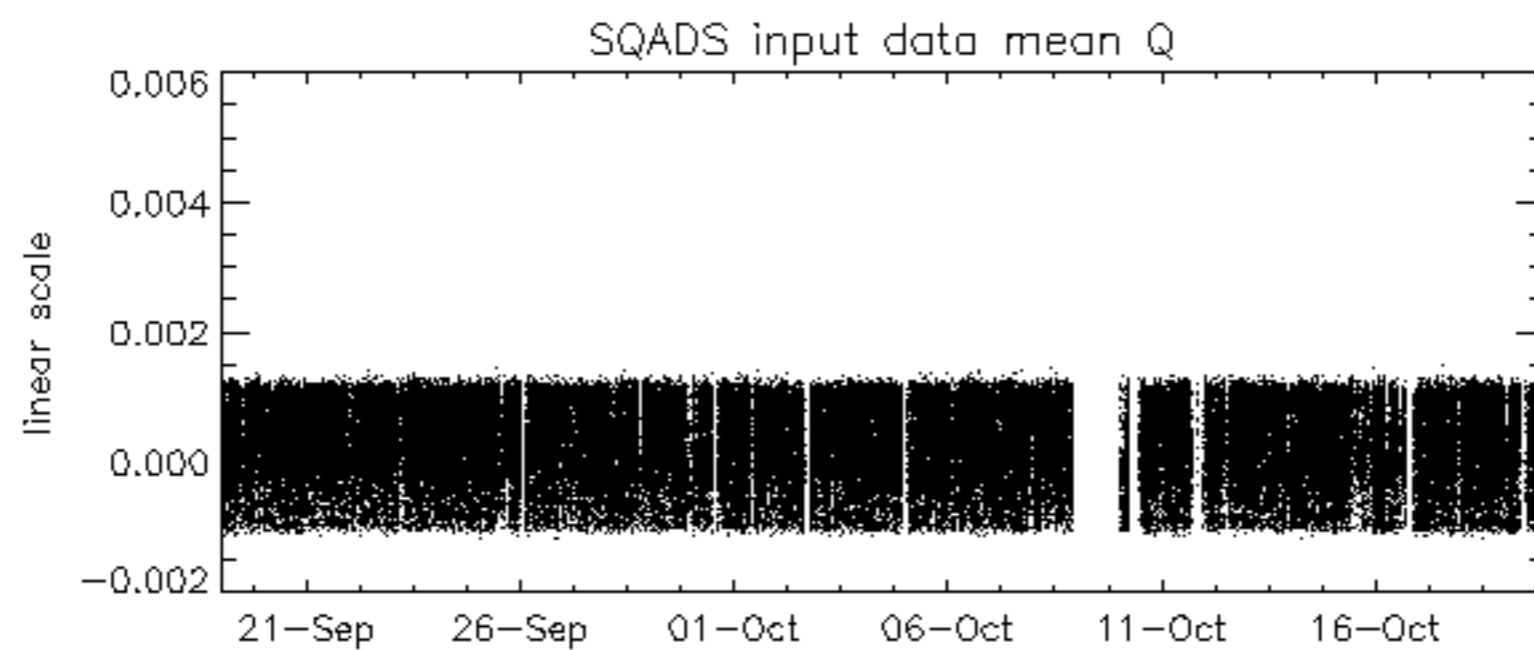
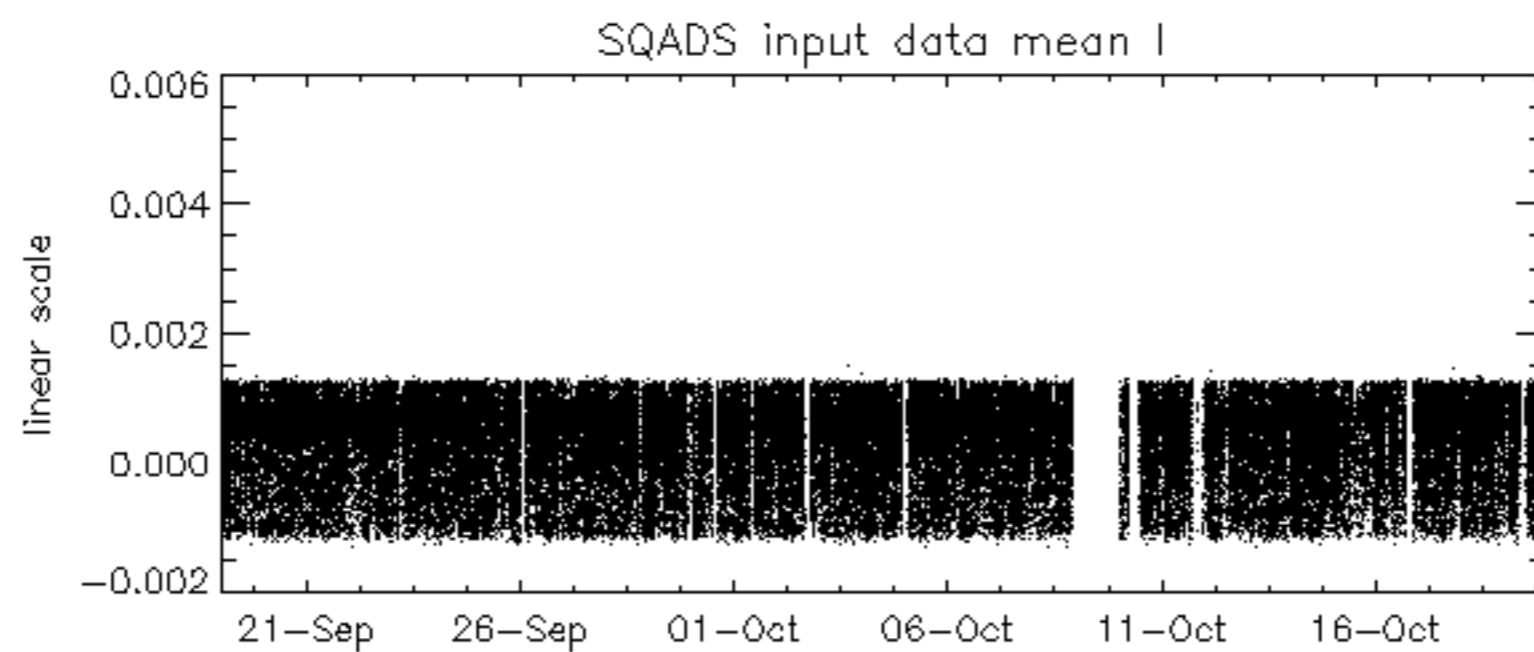
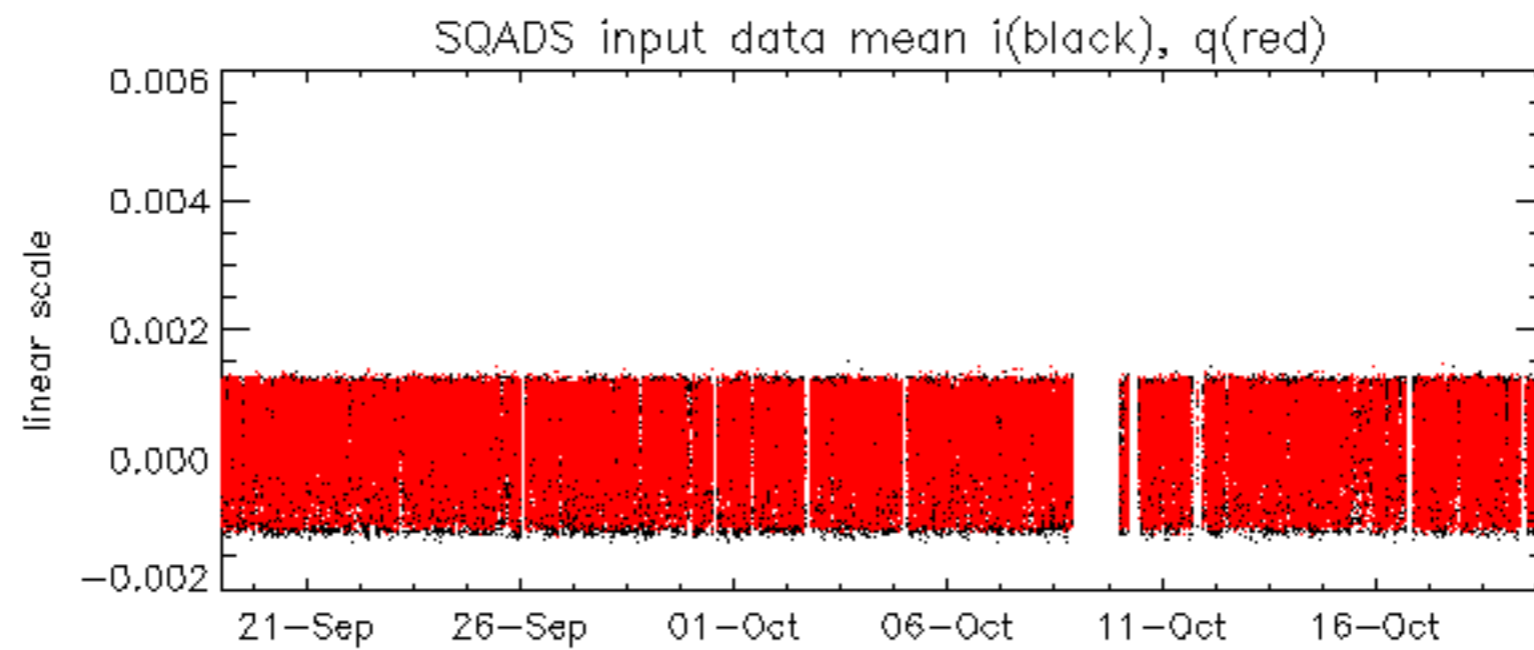


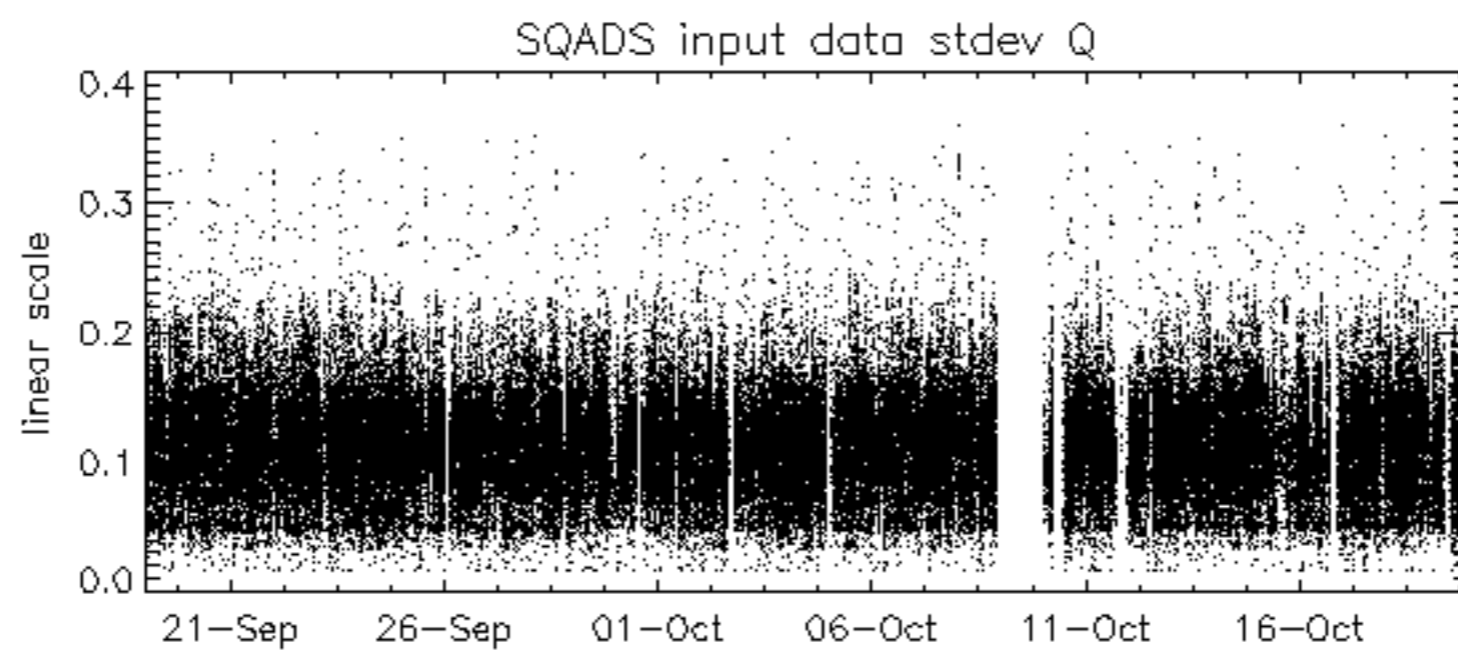
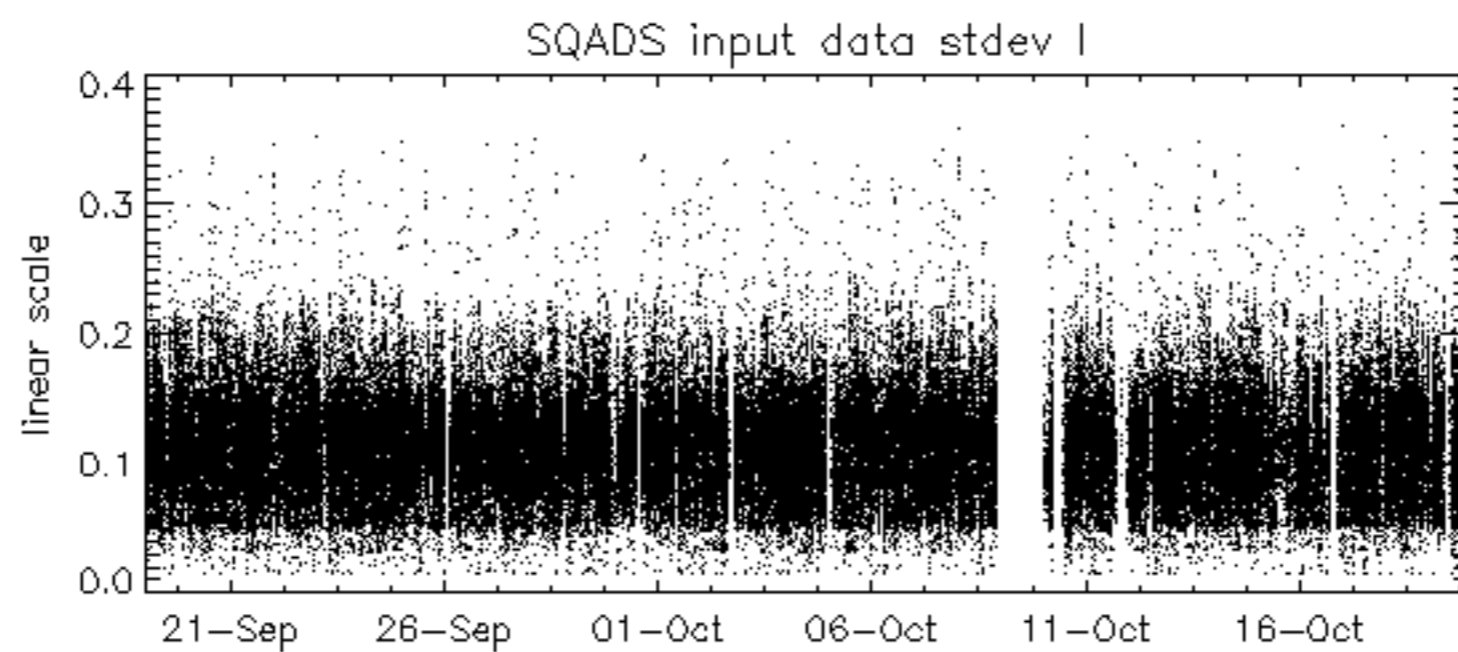
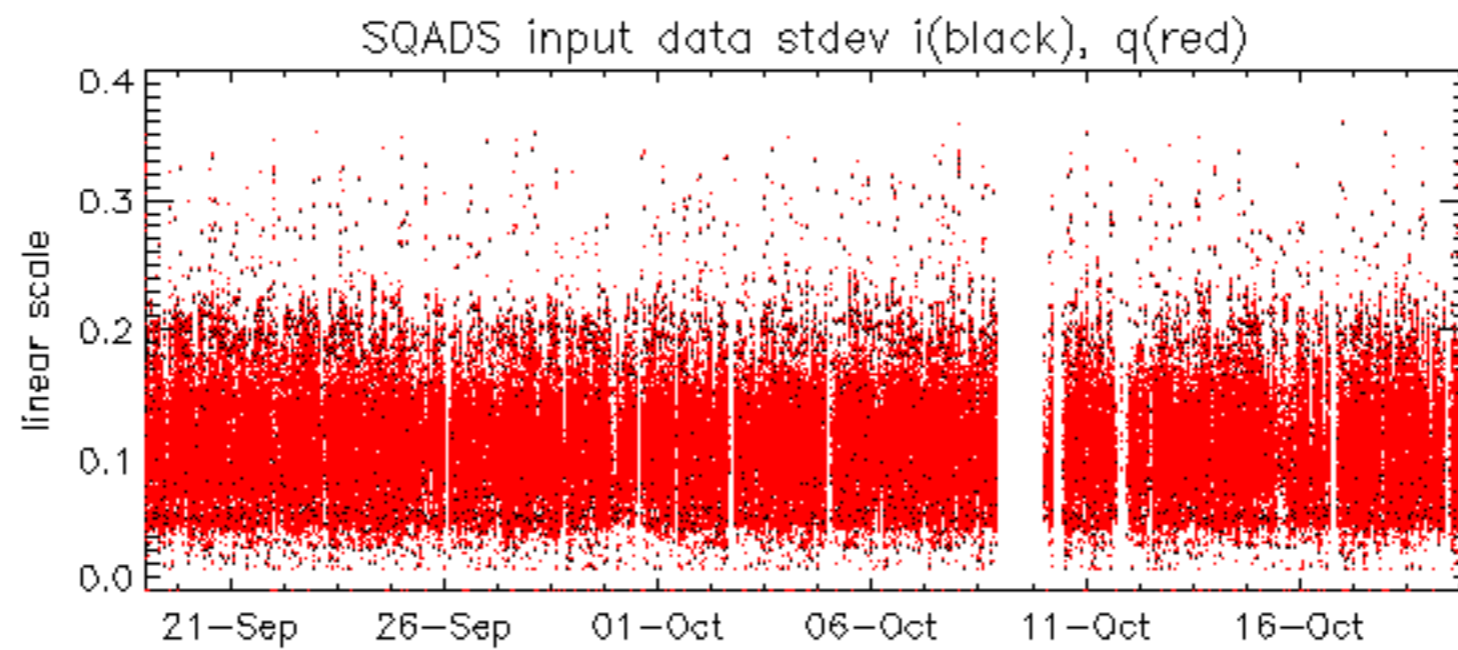
+100Hz

The MS mode provides an internal health check on an individual module basis.
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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.