

REPORT OF 031030

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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 internal problems on QC tools, MS analysis results cannot be shown for the last products received:

- ASA_MS__0PNPDK20031029_202219_000000152021_00128_08699_0092.N1
- ASA_MS__0PNPDK20031029_202339_000000152021_00128_08699_0091.N1

Anyway no anomalies have been observed.

Polarisation **Start Time**

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	-3.78027	-22.5162	-8.14342
	stdev	0.00495678	0.0650571	0.00260692
24	mean	-5.15019	-21.2020	-8.14342
	stdev	0.0138576	0.0653947	0.00260692



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79467	-22.5412	-8.14284
	stdev	0.00552372	0.0624845	0.00254495
24	mean	-5.36857	-21.2656	-8.14284
	stdev	0.891255	0.0595786	0.00254495



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	0.000363521
	stdev	3.60965e-07
MEAN Q	mean	0.000278747
	stdev	3.36553e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.113963
	stdev	0.00141475
STDEV Q	mean	0.114207
	stdev	0.00143137



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

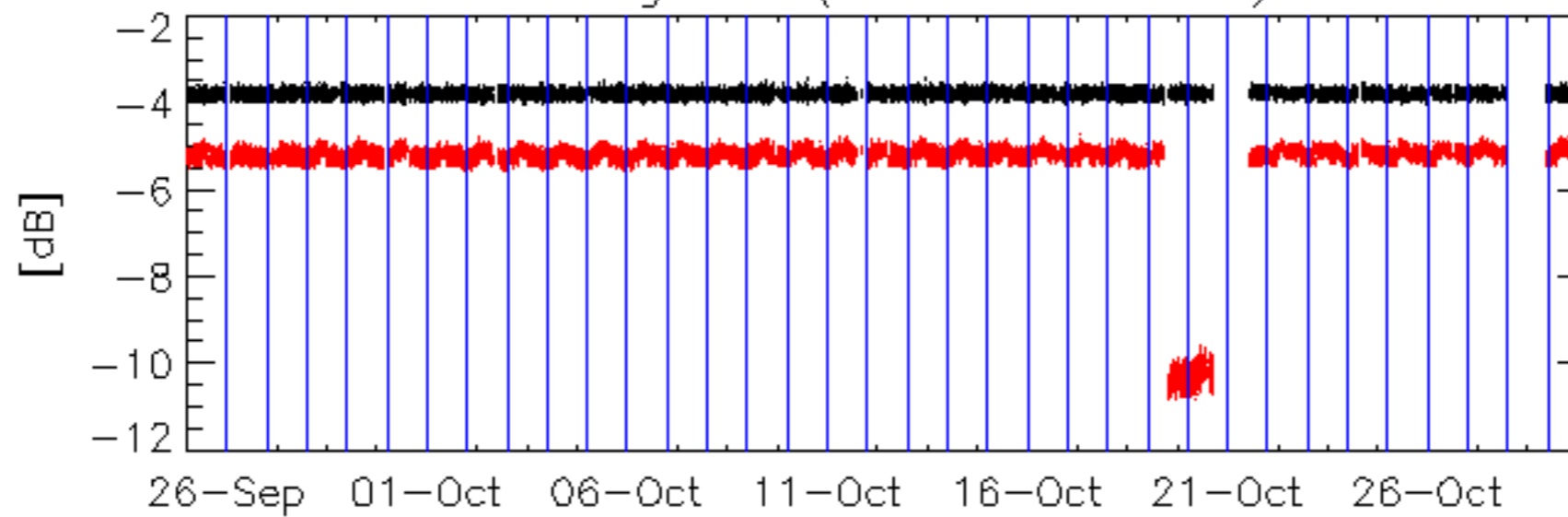
Descending

6.3 - Doppler evolution versus ANX

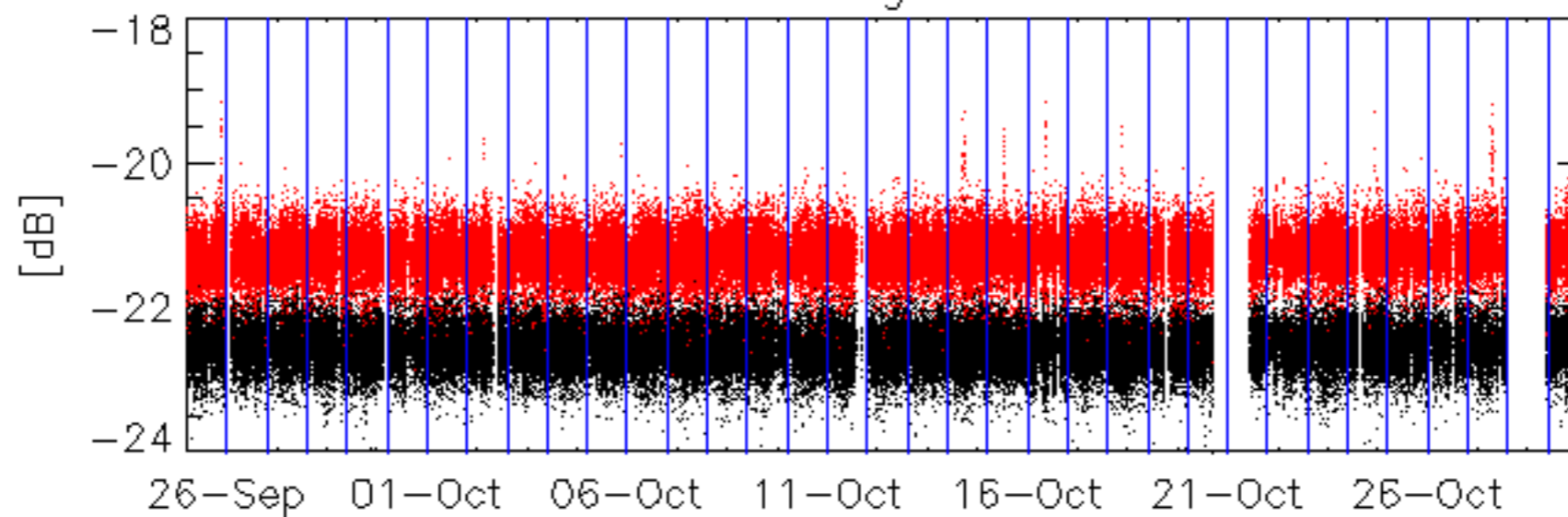
Evolution Doppler error versus ANX



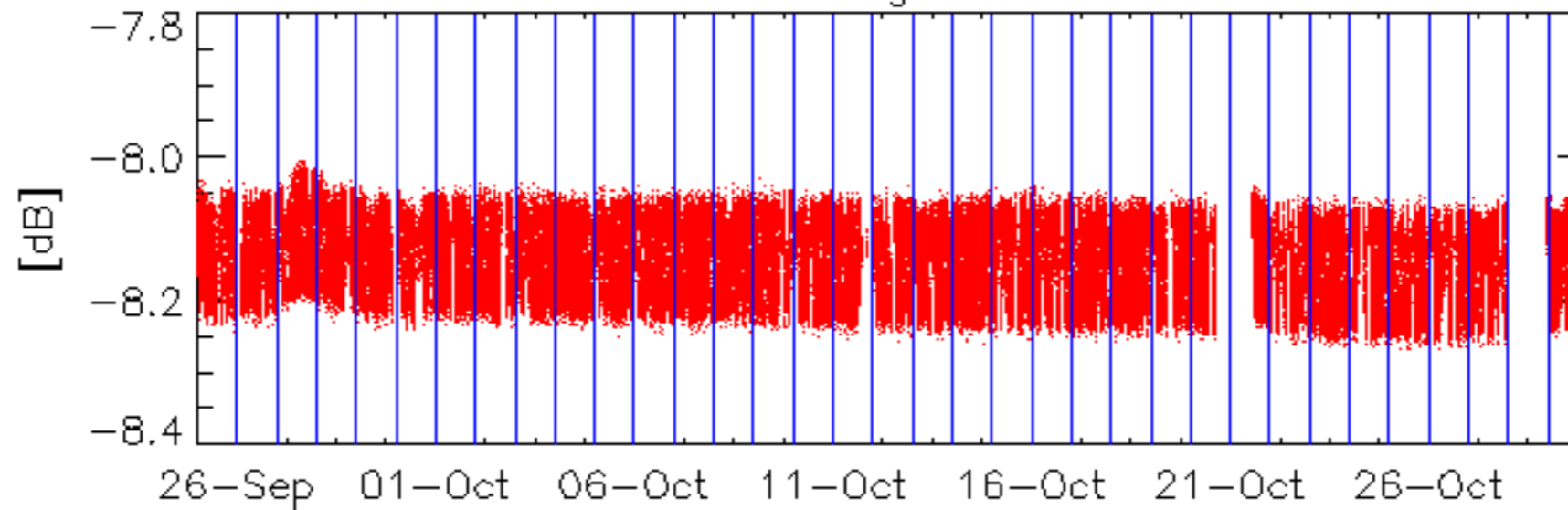
Average P1 (row 3 & row 24)



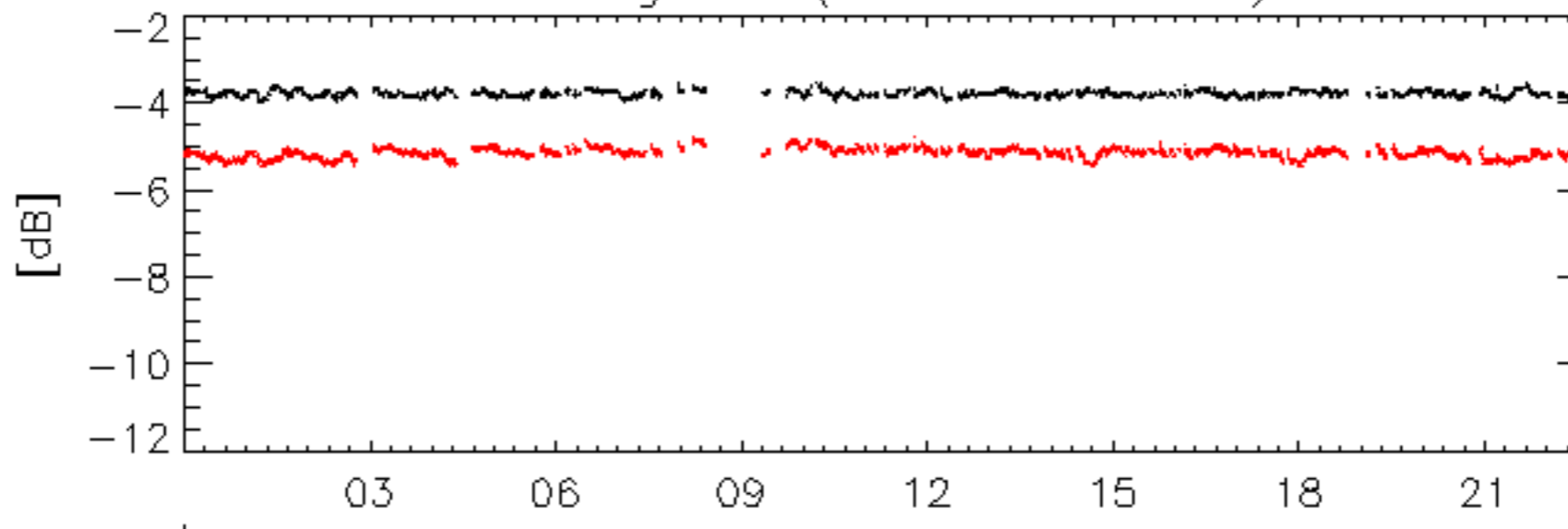
Average P2



Average P3

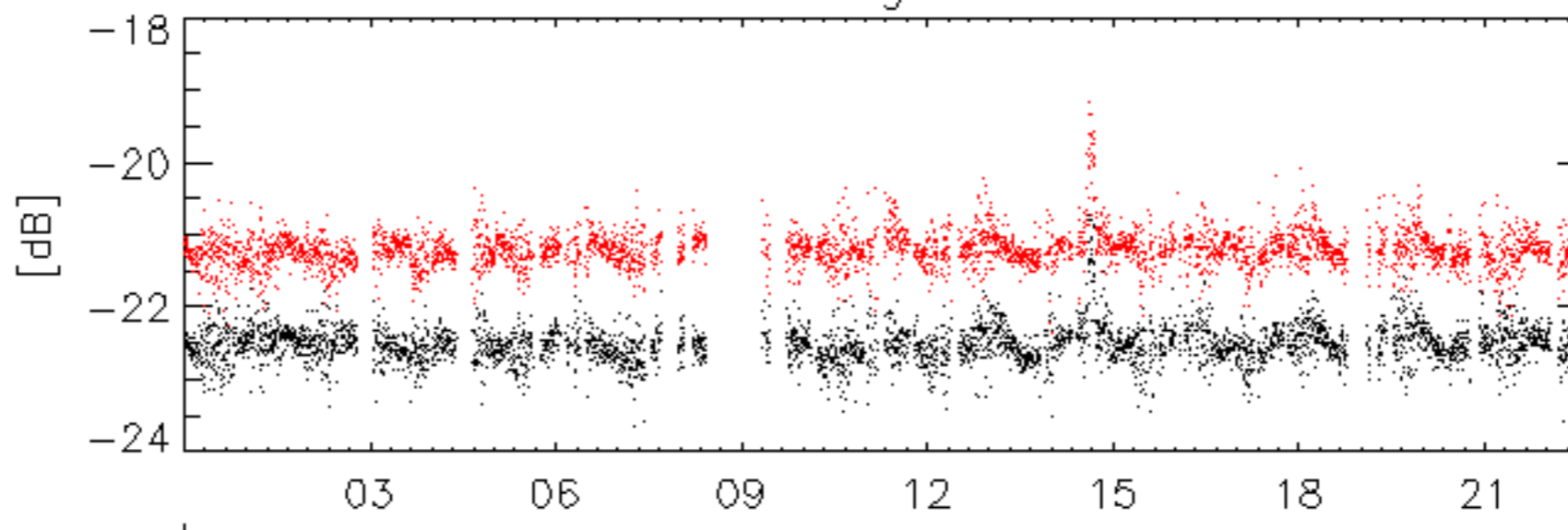


Average P1 (row 3 & row 24)



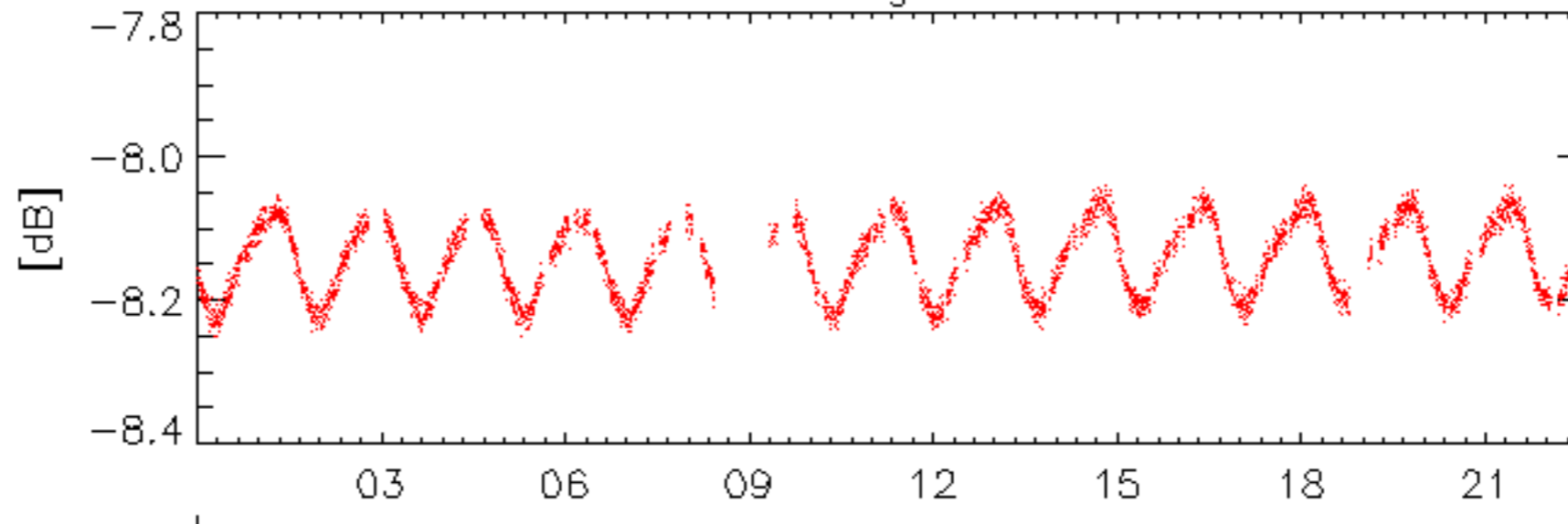
29-Oct

Average P2



29-Oct

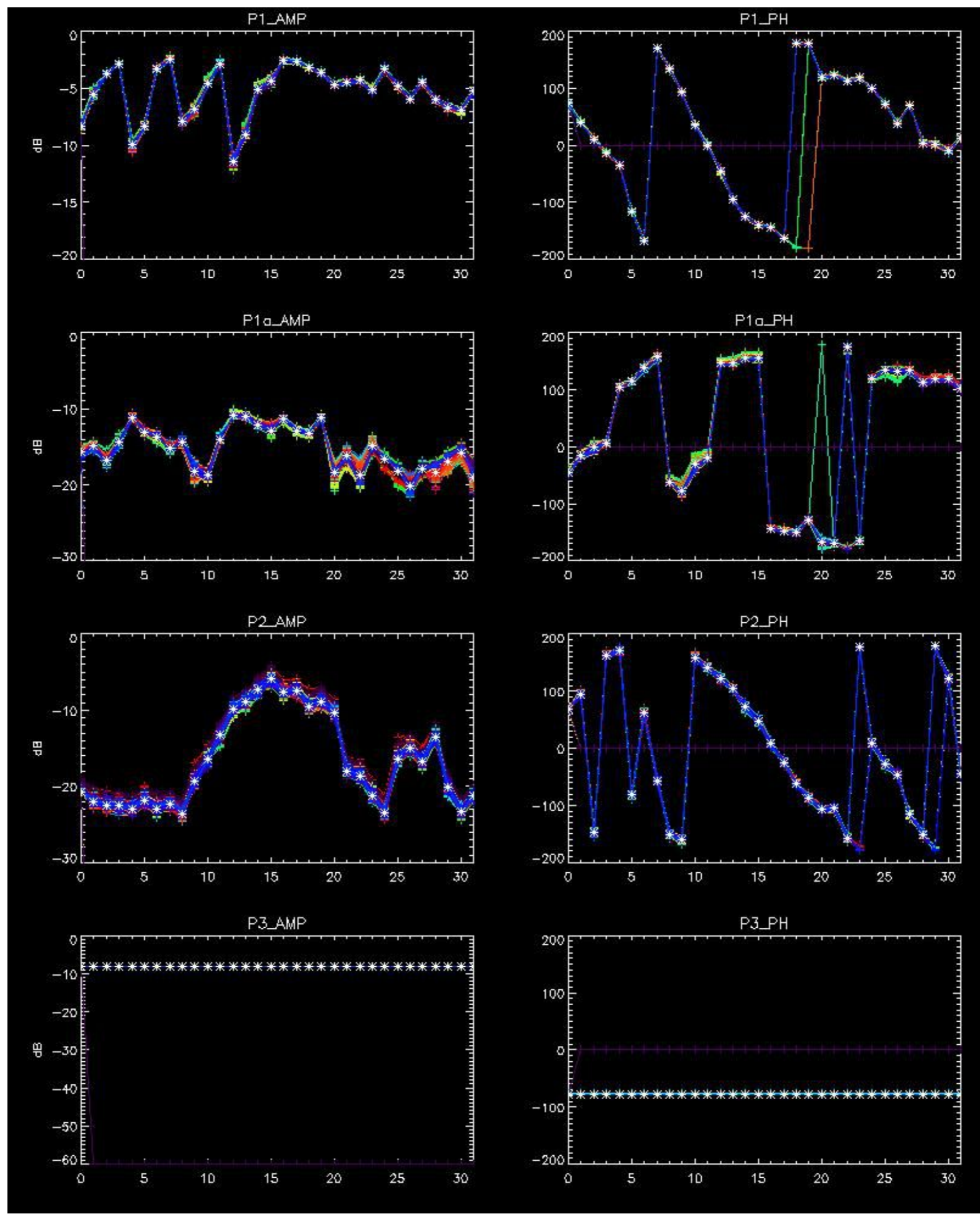
Average P3



29-Oct

No anomalies observed on available browse products.

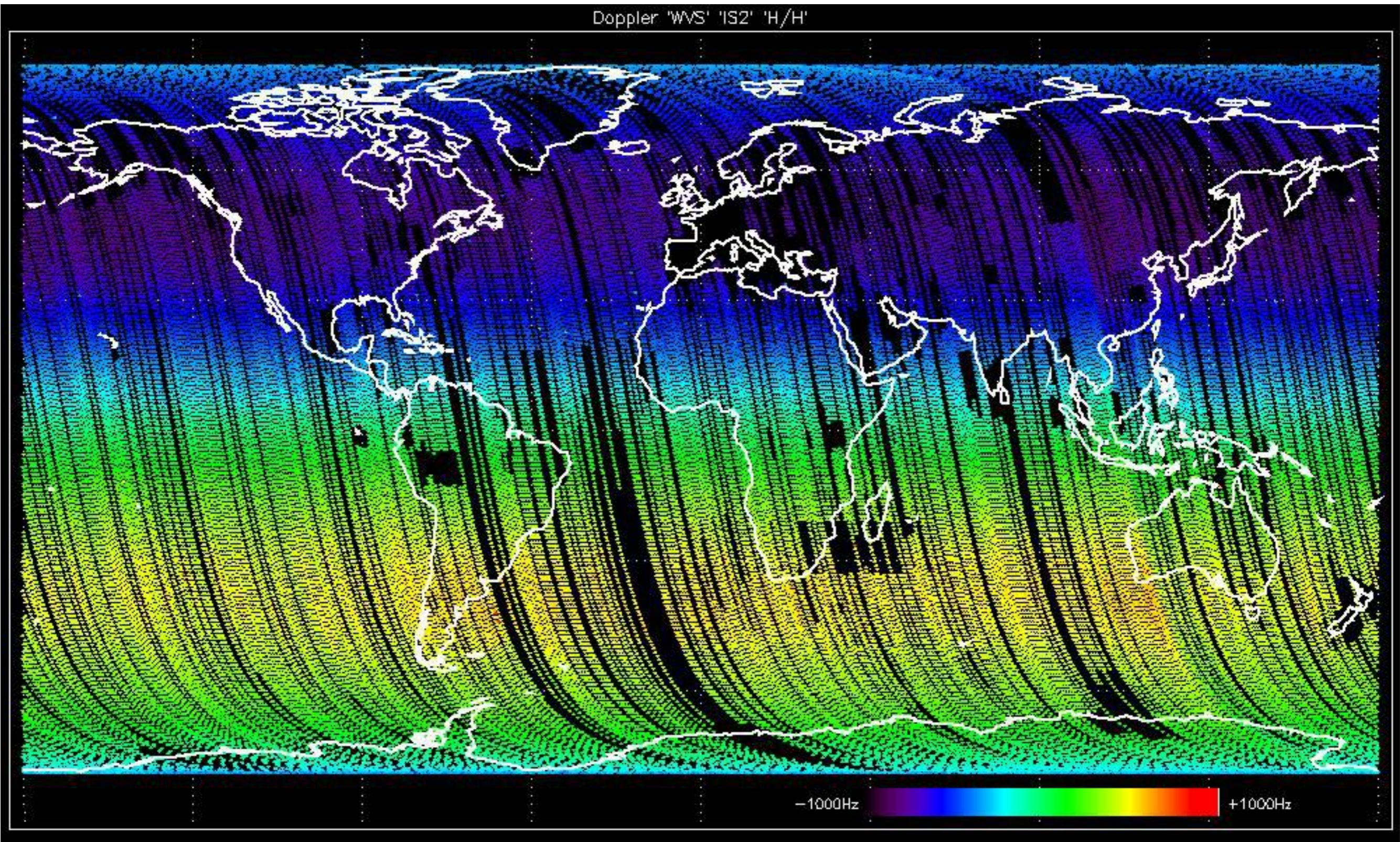
No anomalies observed.



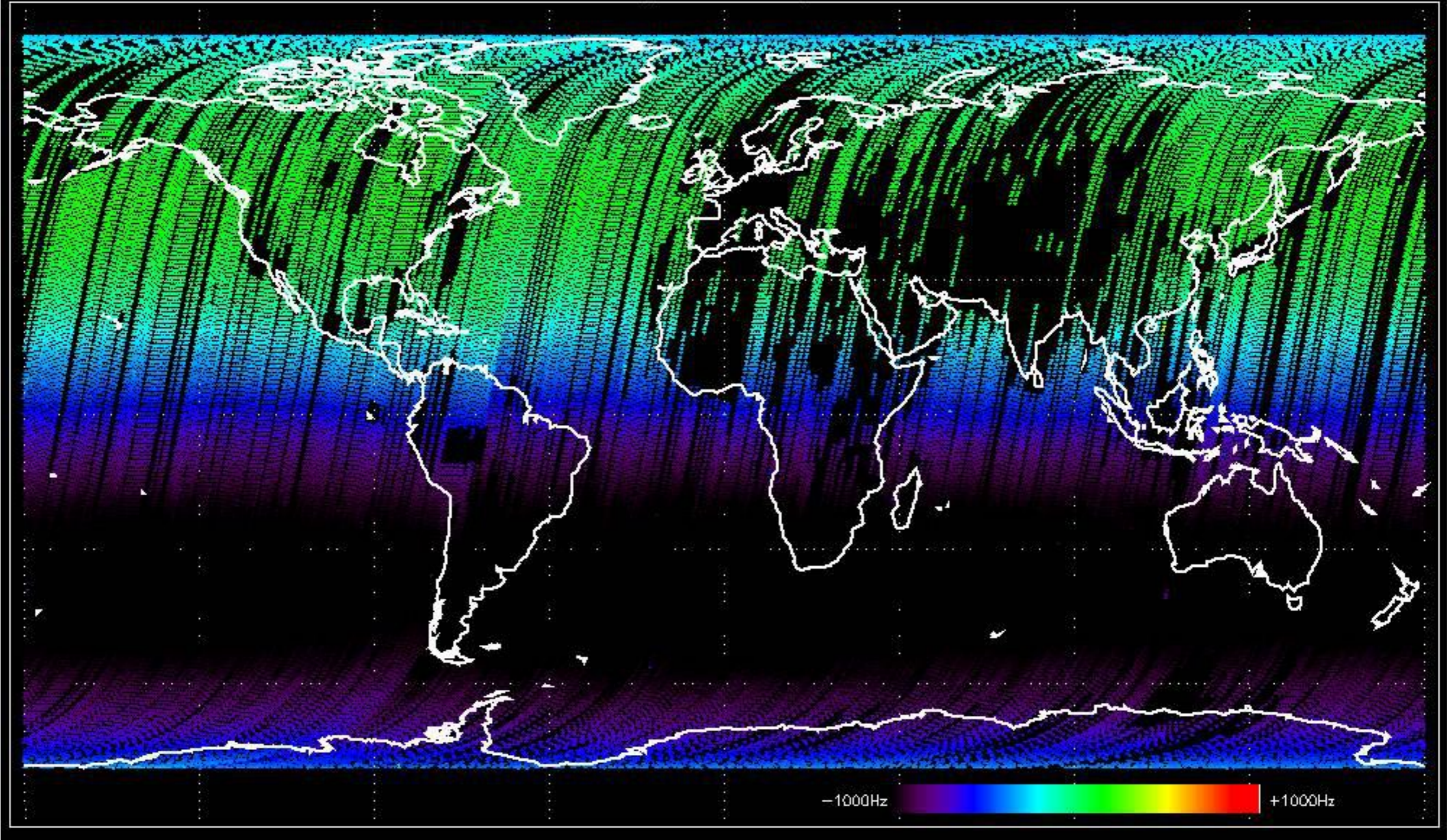
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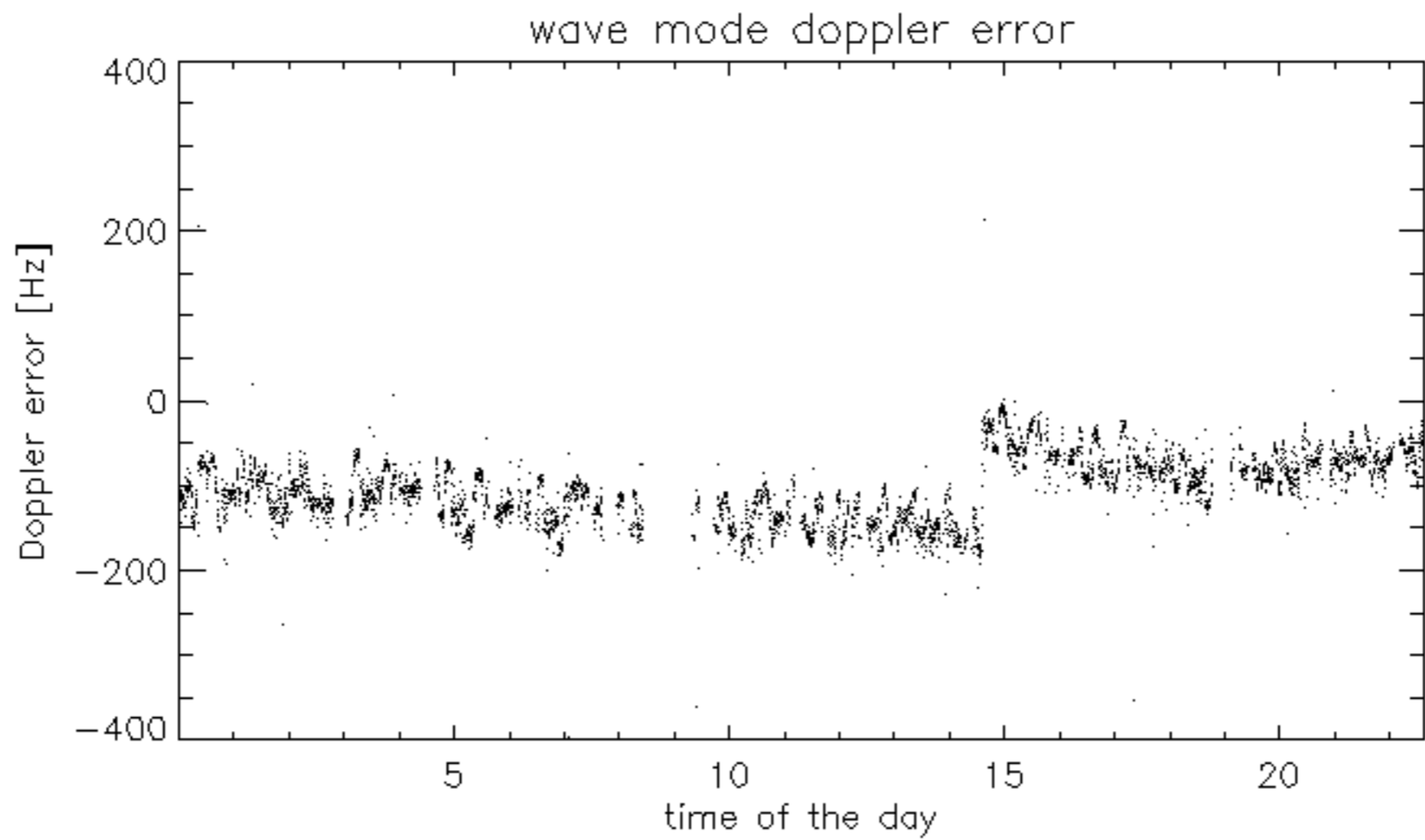
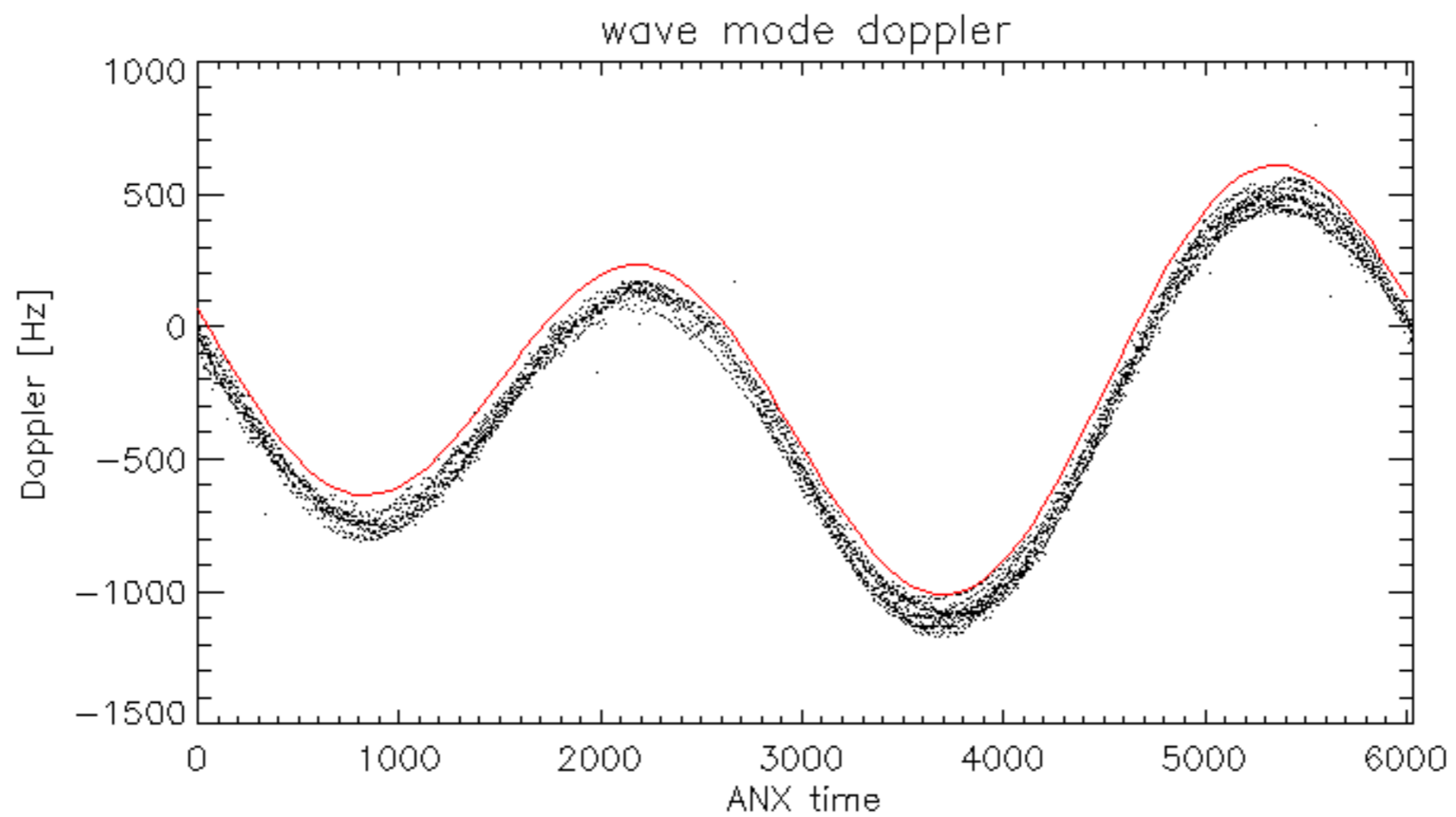
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Doppler 'WVS' 'IS2' 'H/H'

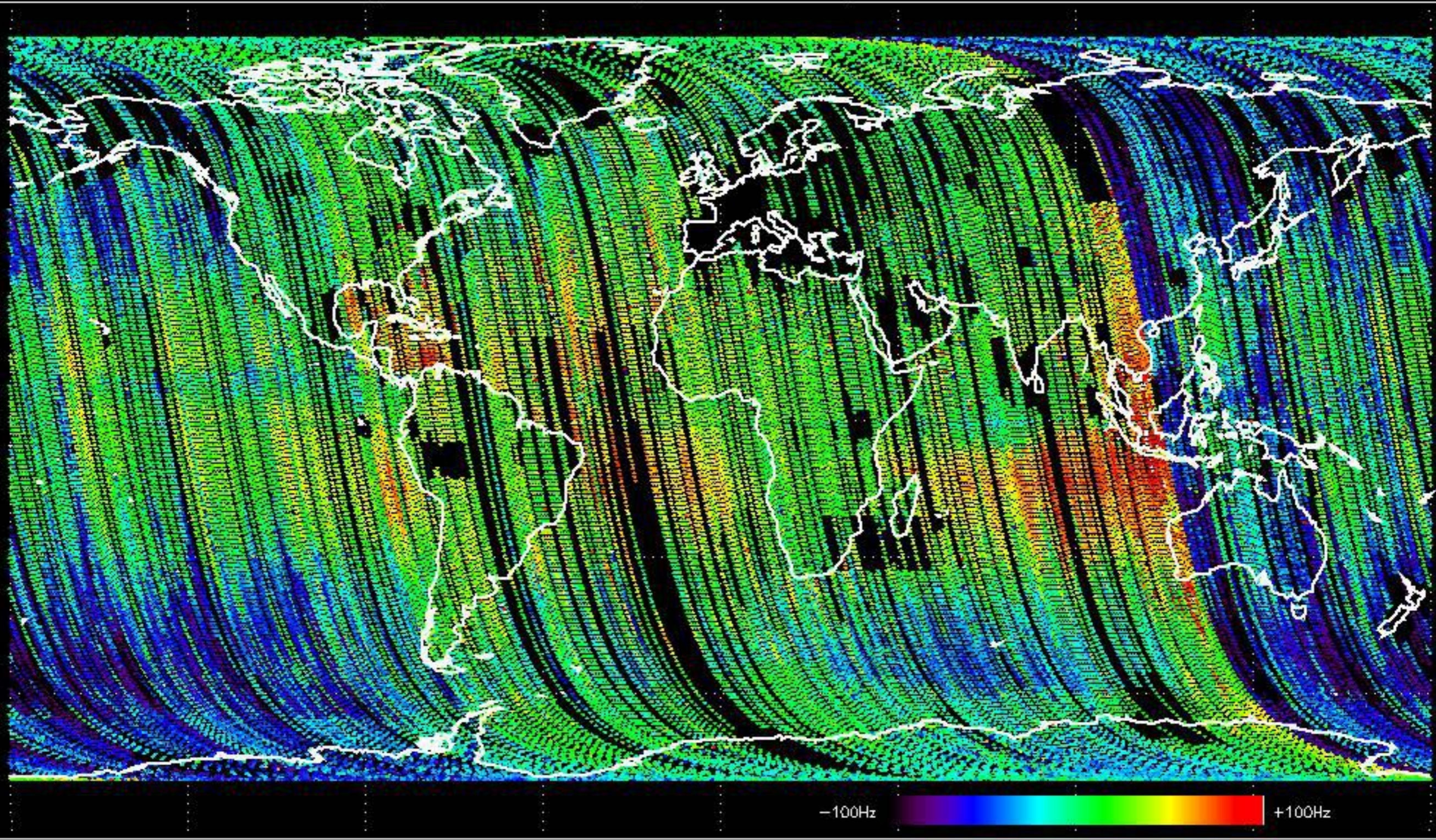


Doppler 'WVS' 'IS2' 'V/V'

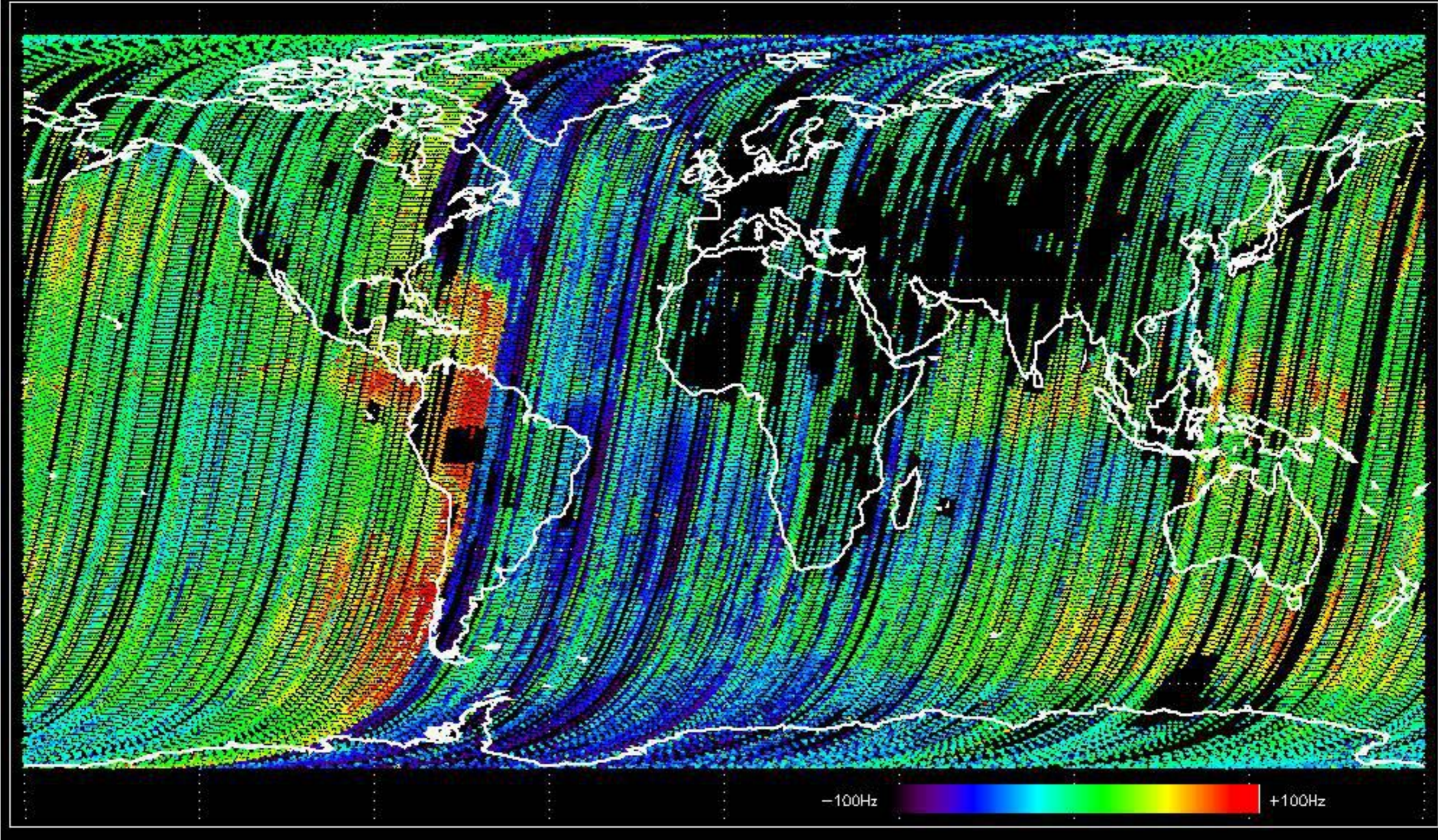




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



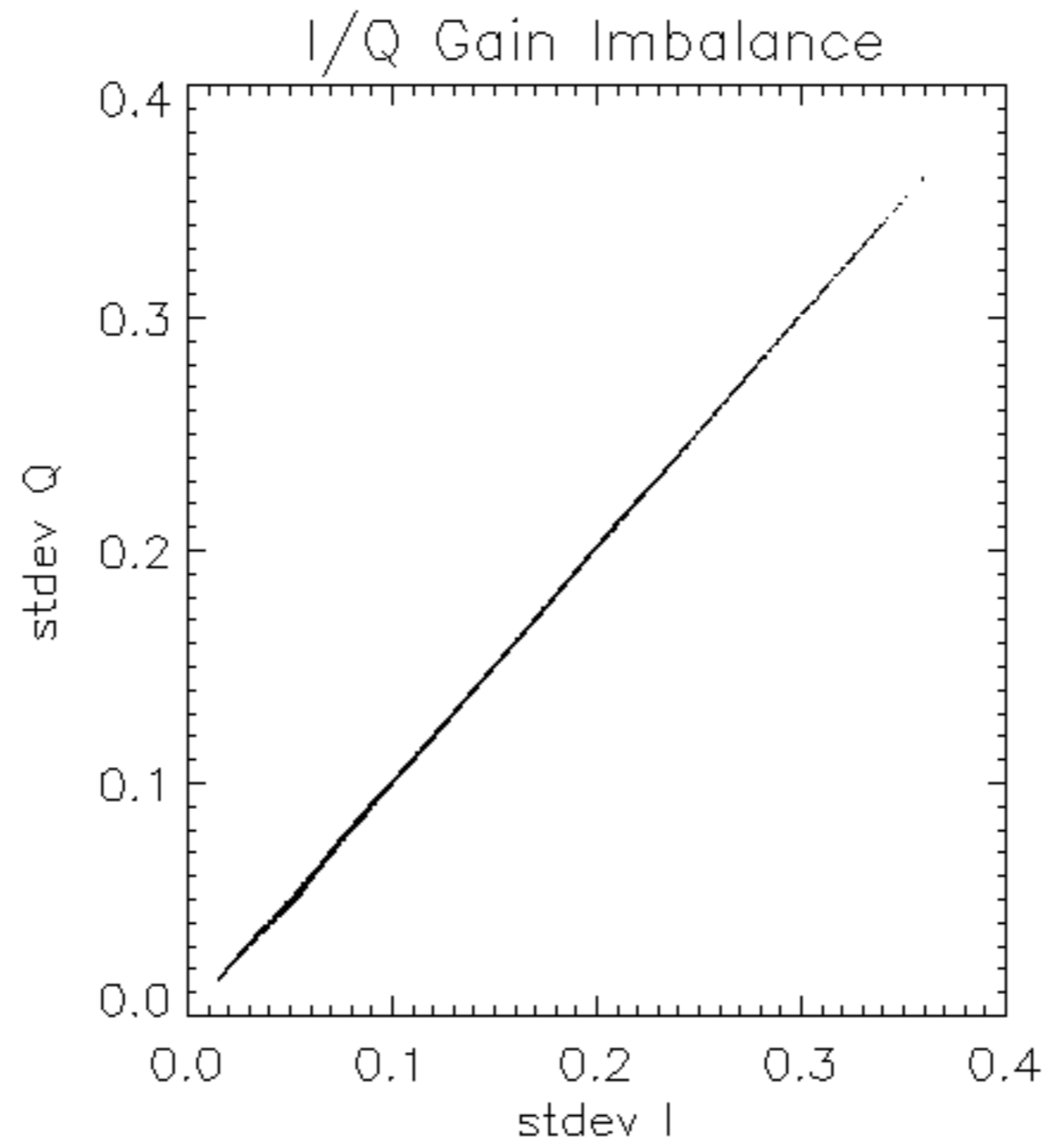
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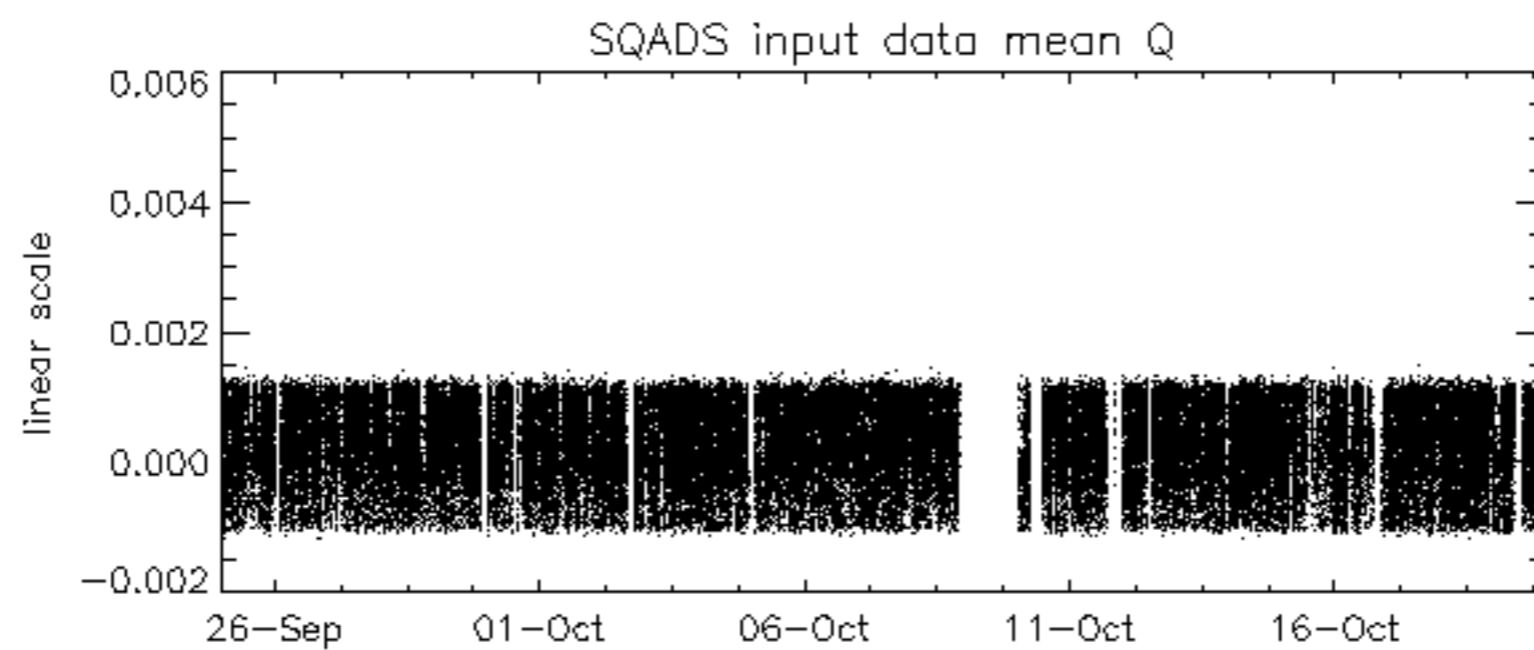
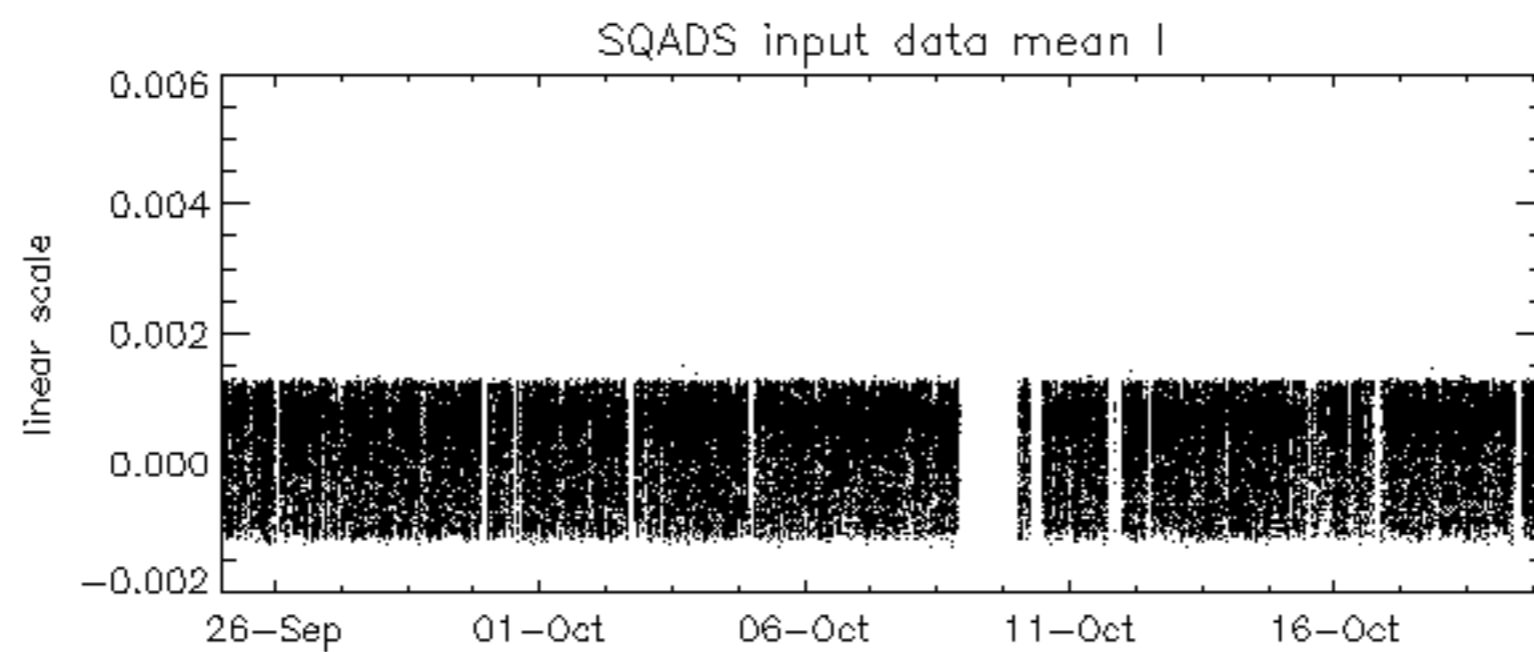
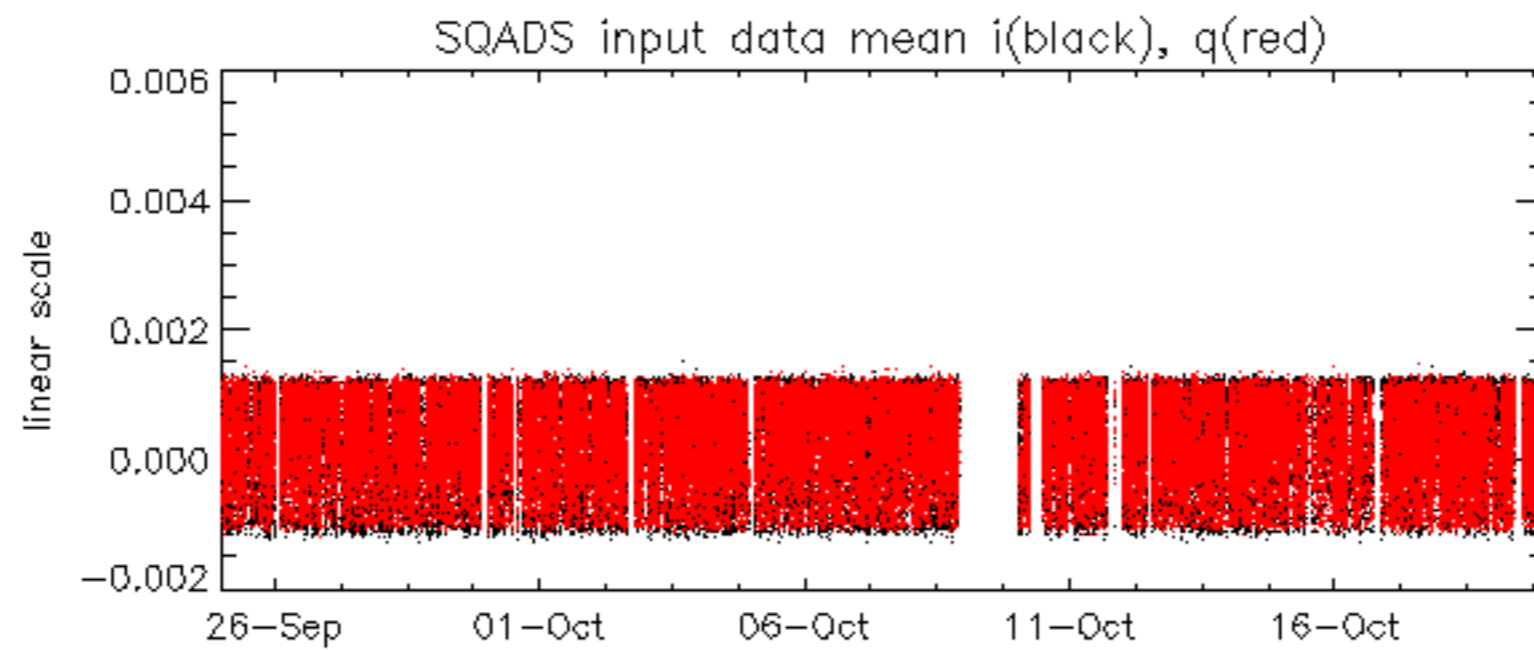
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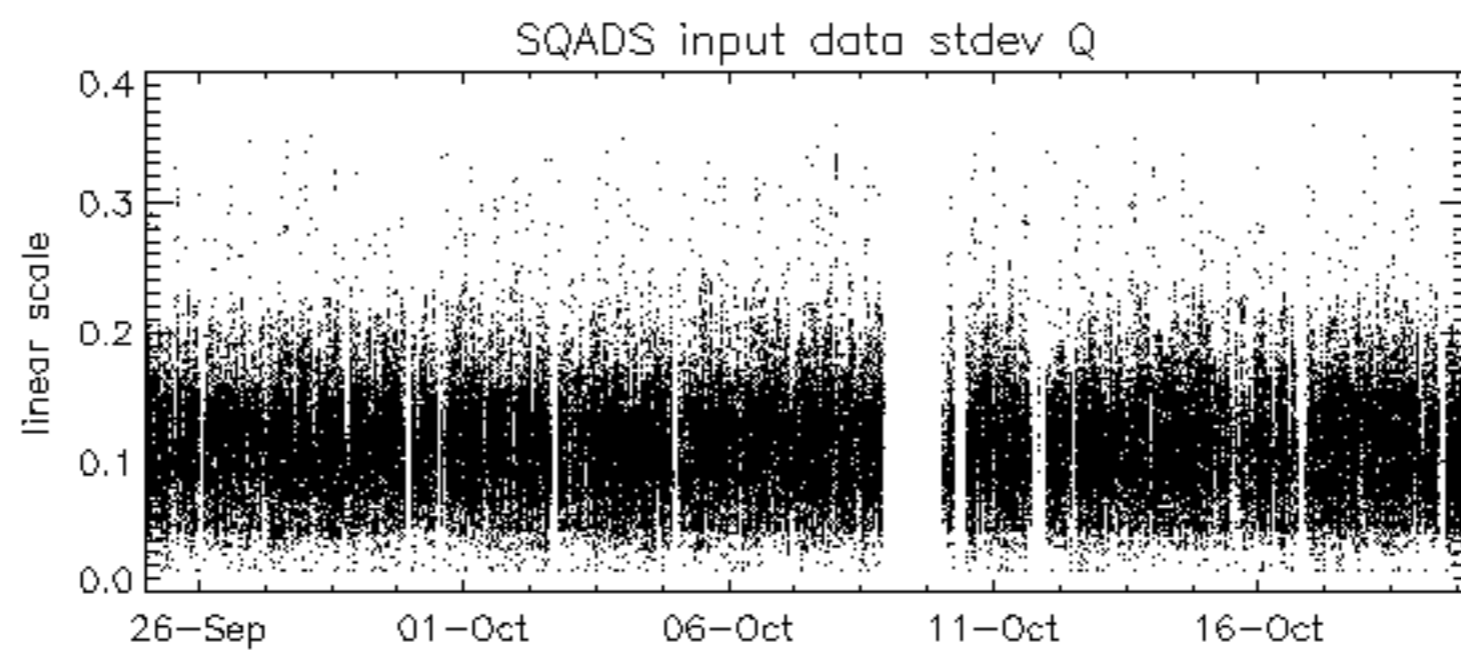
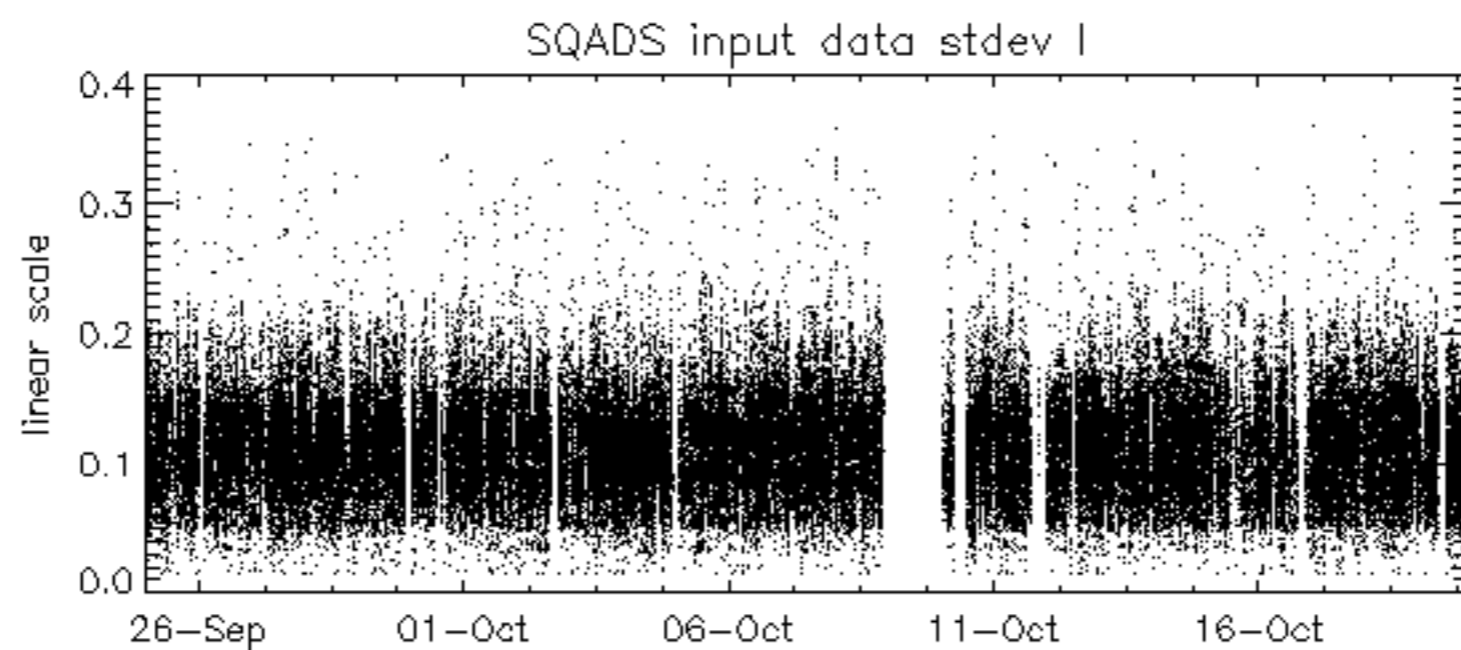
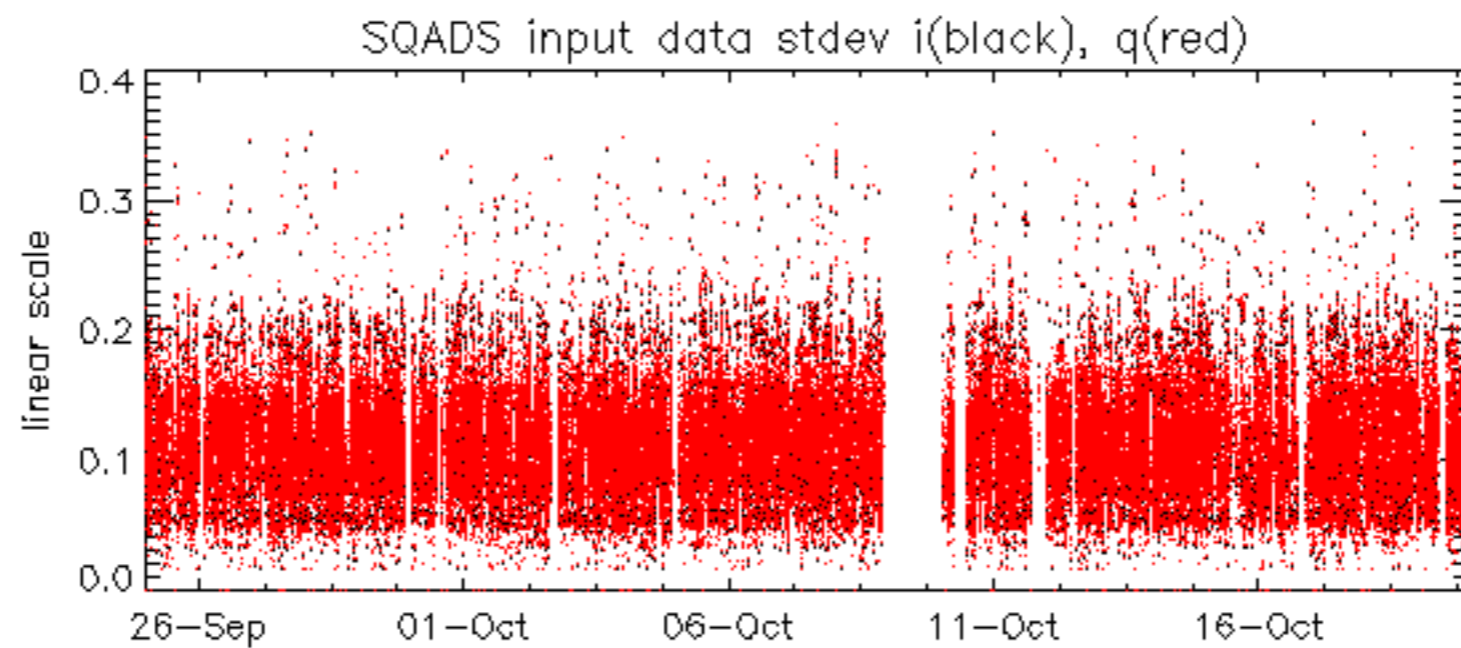
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