

REPORT OF 031006

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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.

Sub-system	Start	Stop	Planned
ASAR	YYYY-MM-DD hh:mm:ss	YYYY-MM-DD hh:mm:ss	---

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

No anomalies observed on available MS products (V and H polarization):

- ASA_MS__0PNPDK20031005_194305_000000152020_00285_08355_0112.N1
- ASA_MS__0PNPDK20031005_194124_000000152020_00285_08355_0111.N1



Polarisation	Start Time
V	20031005 194305
H	20031005 194124

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
3	mean	-3.79584	-22.5451	-8.14040
	stdev	0.00578271	0.0612918	0.00234002
10	mean	-6.87099	-19.3241	-8.14040
	stdev	0.0310511	0.0592999	0.00234002



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79940	-22.5263	-8.12677
	stdev	0.00559556	0.0627164	0.00256414
10	mean	-6.89565	-19.3158	-8.12677
	stdev	0.0273662	0.0610036	0.00256414



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	0.000361268
	stdev	3.60730e-07
MEAN Q	mean	0.000299925
	stdev	3.21503e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115239
	stdev	0.00142784
STDEV Q	mean	0.115476
	stdev	0.00144579



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed on Doppler evolution.
Doppler analysis performed over the last 60 days.

6.1 - Unbiased Doppler Error

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

6.2 - Absolute Doppler

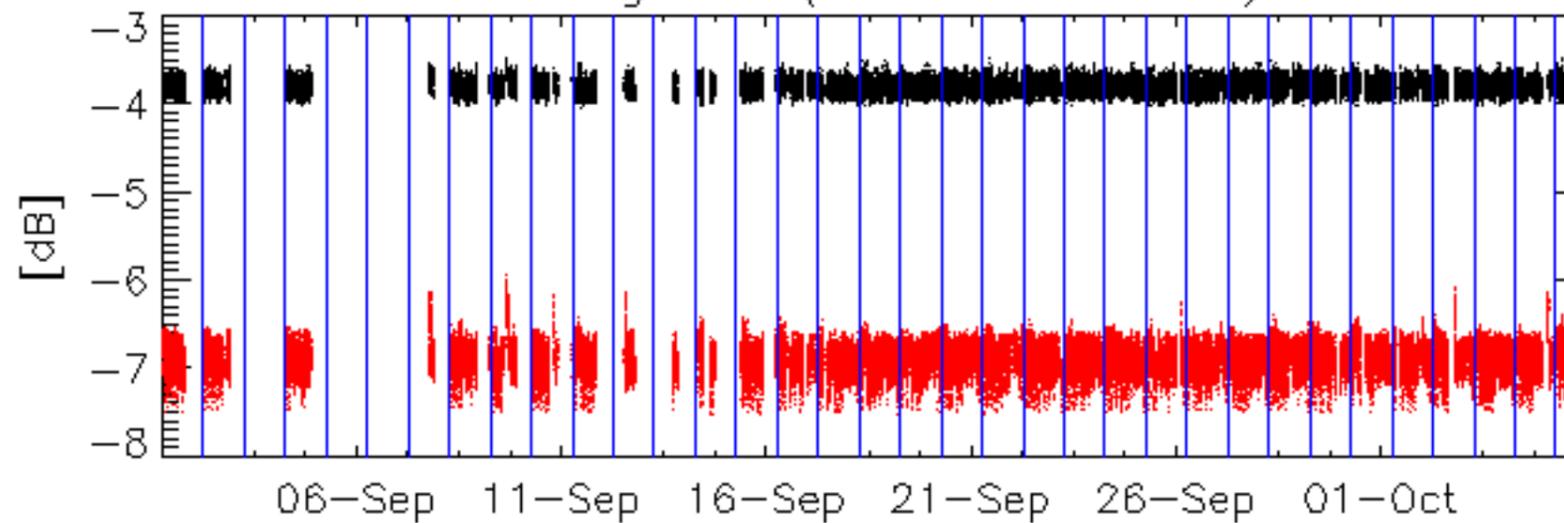
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

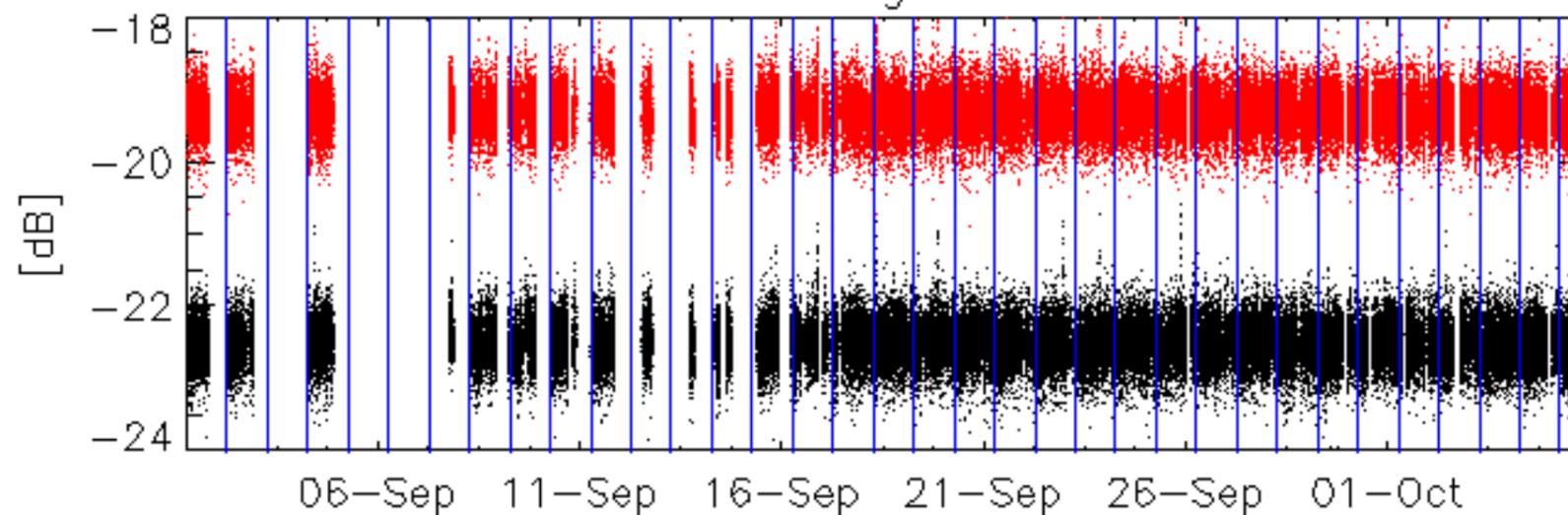
Evolution Doppler error versus ANX



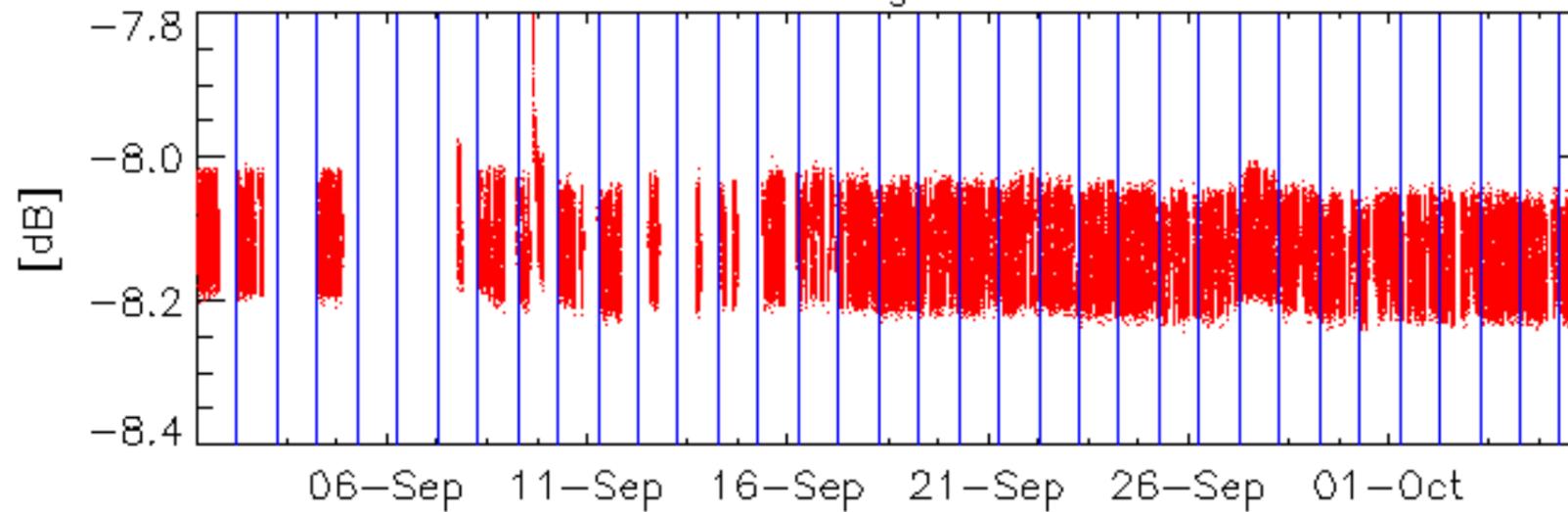
Average P1 (row 3 & row 10)



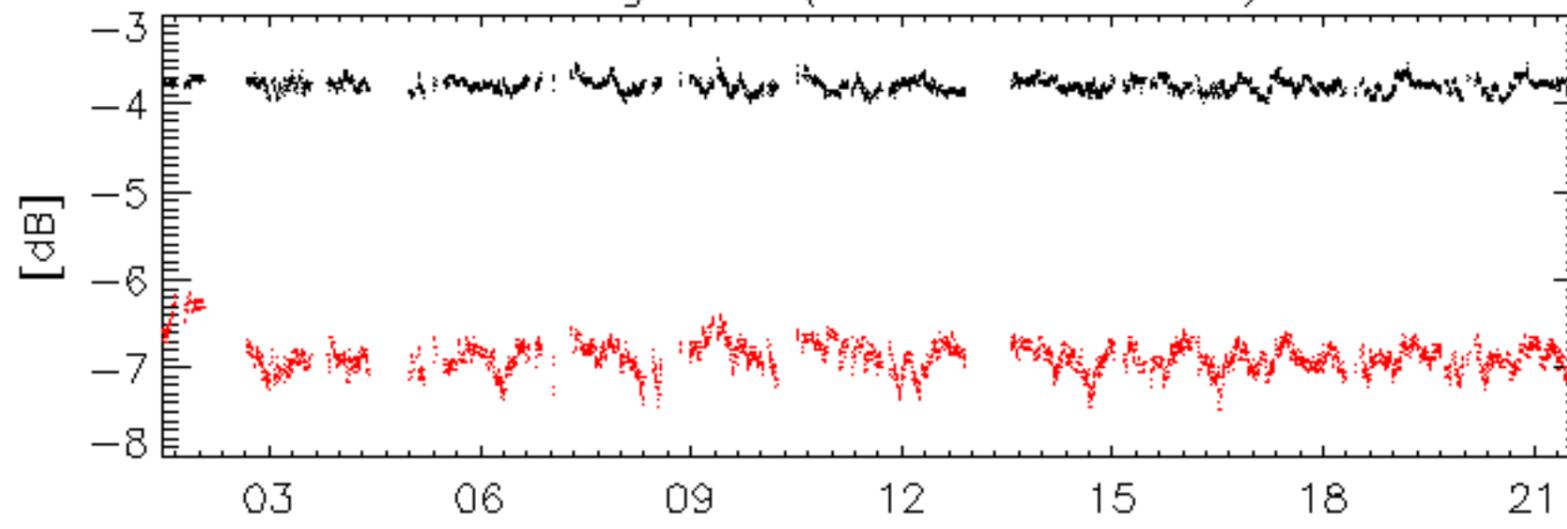
Average P2



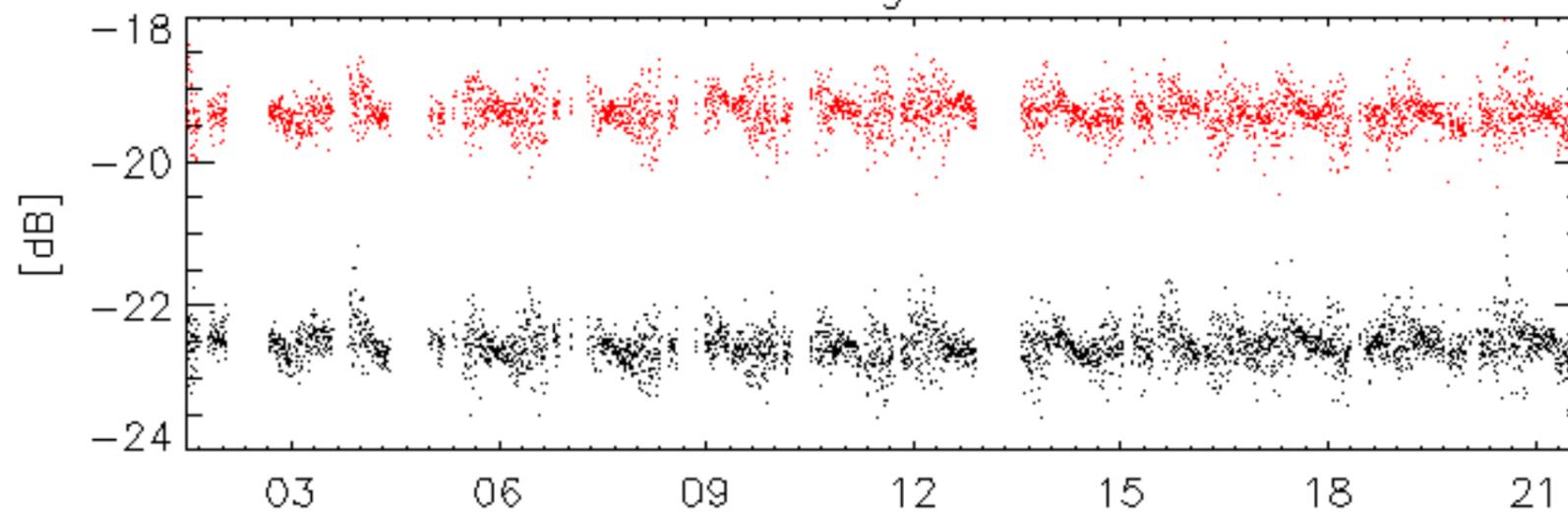
Average P3



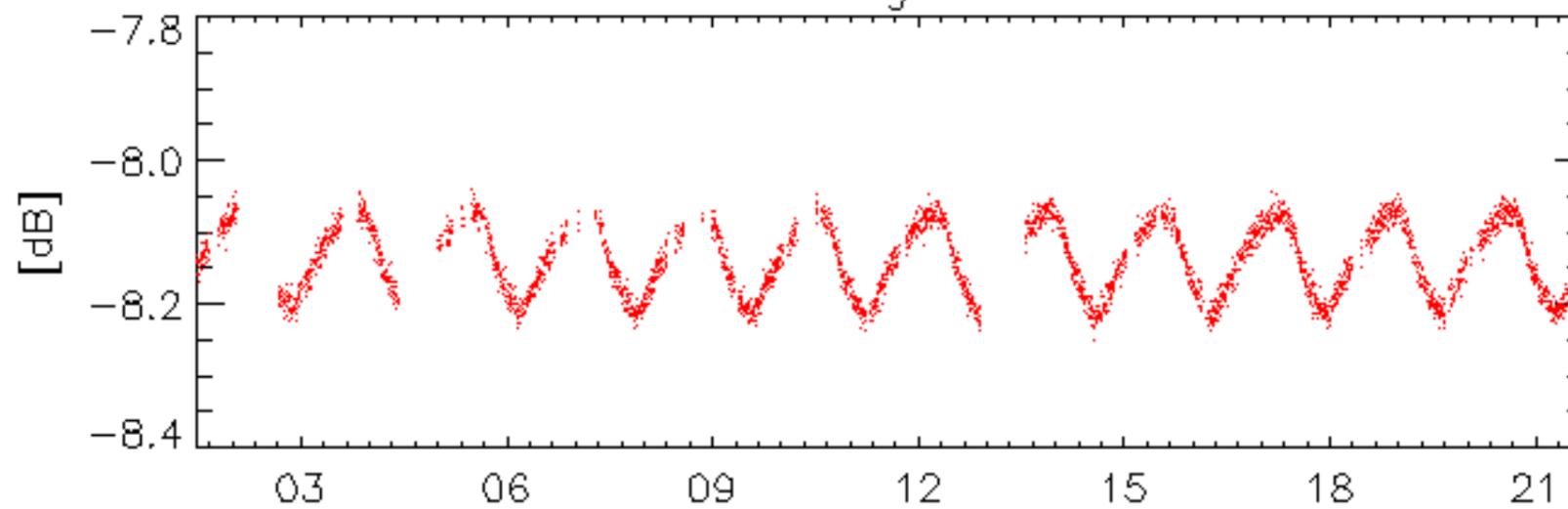
Average P1 (row 3 & row 10)



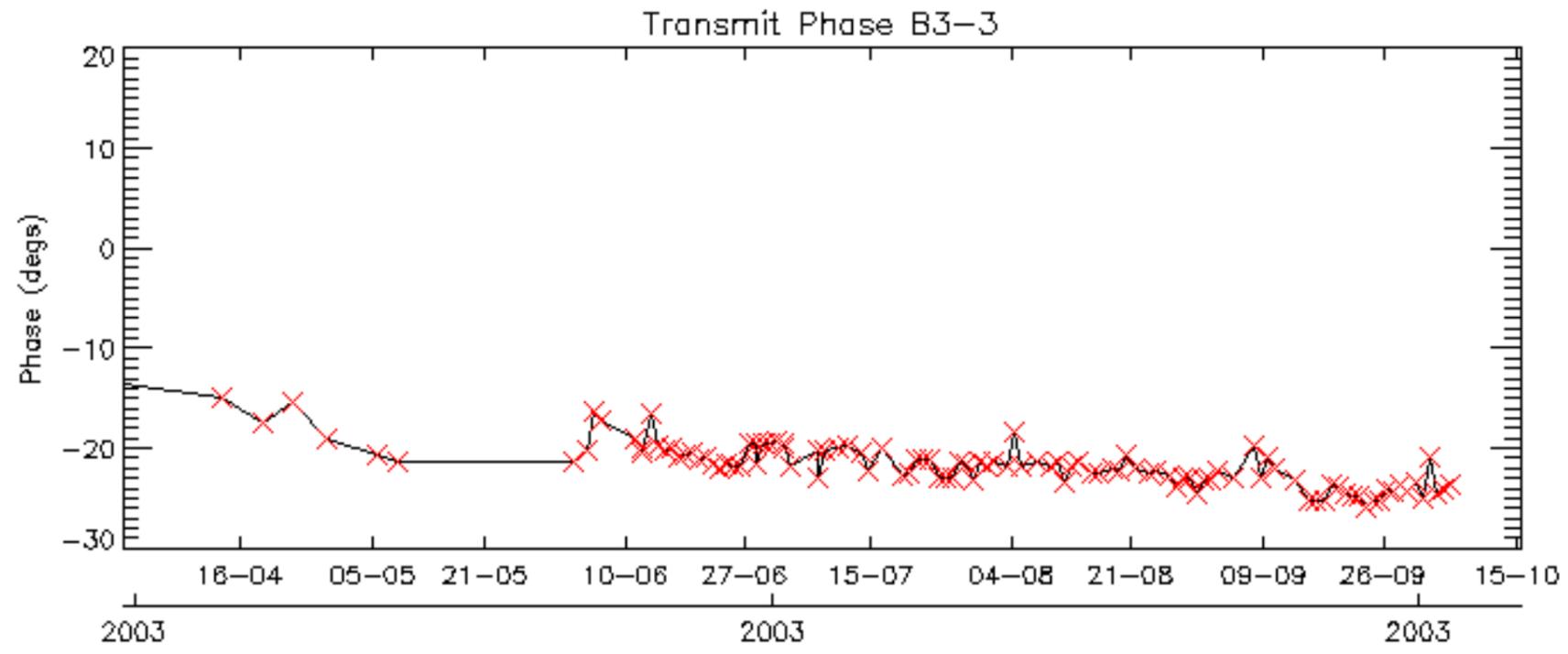
05-Oct
Average P2



05-Oct
Average P3

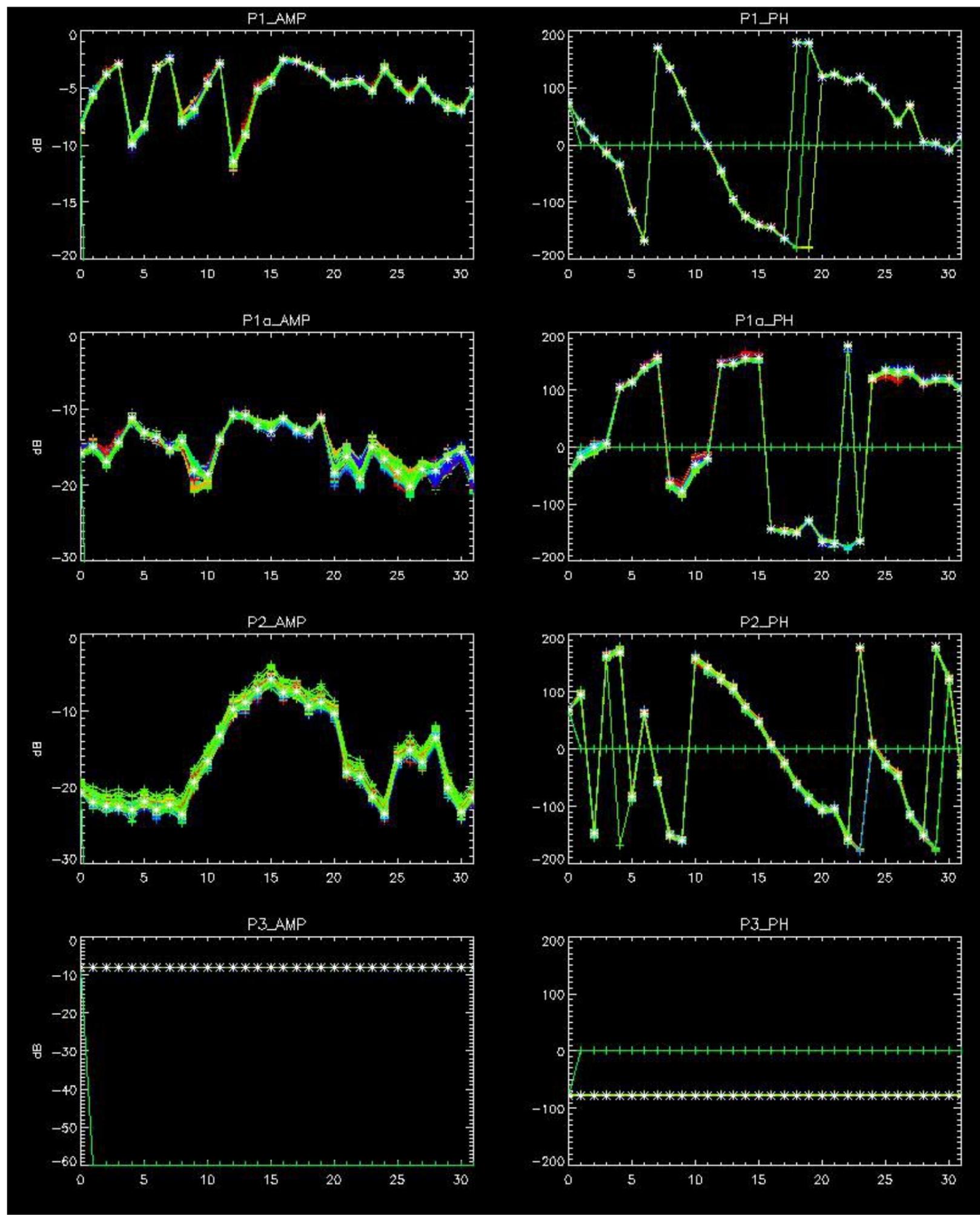


05-Oct



No anomalies observed on available browse products.

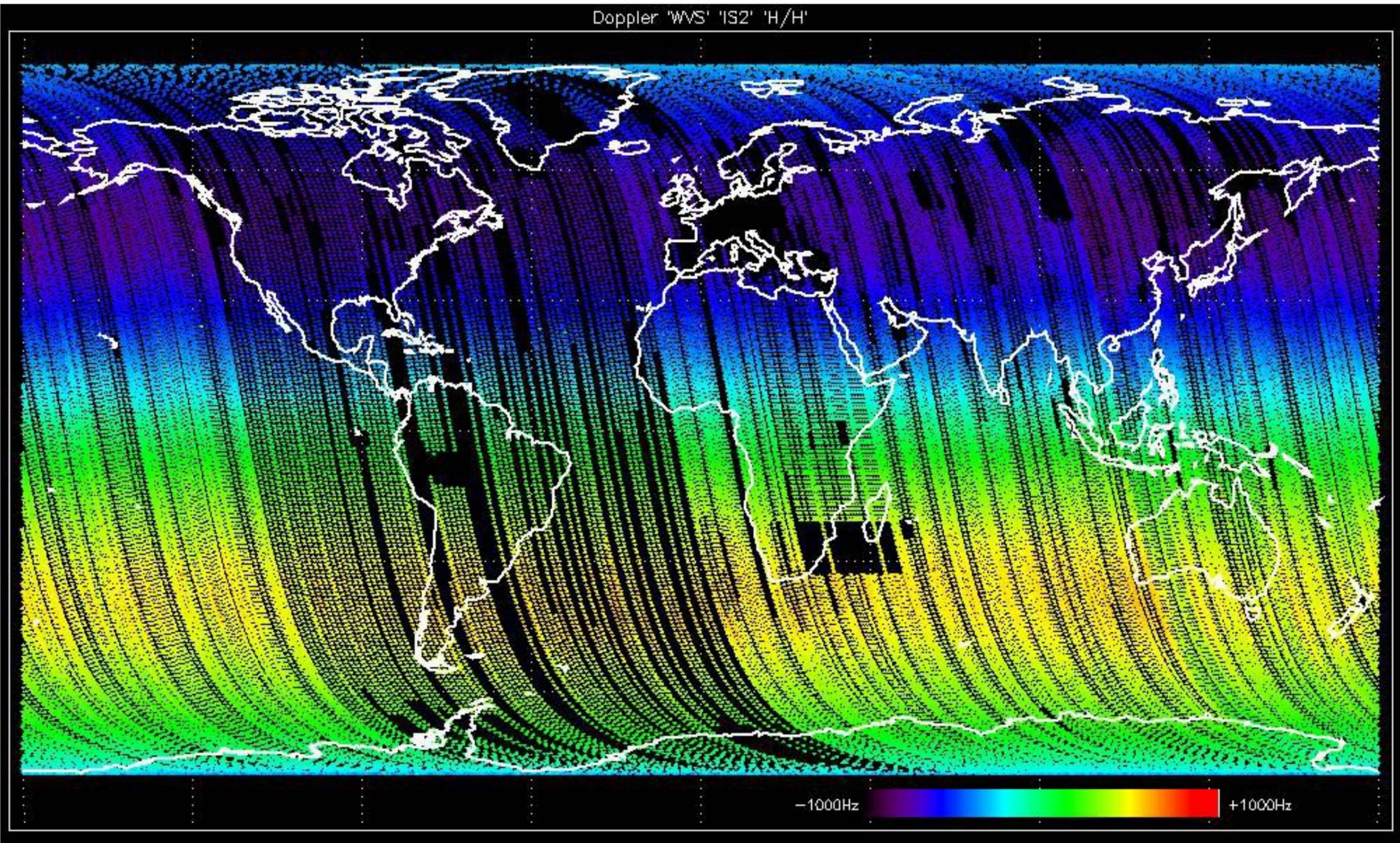
No anomalies observed.



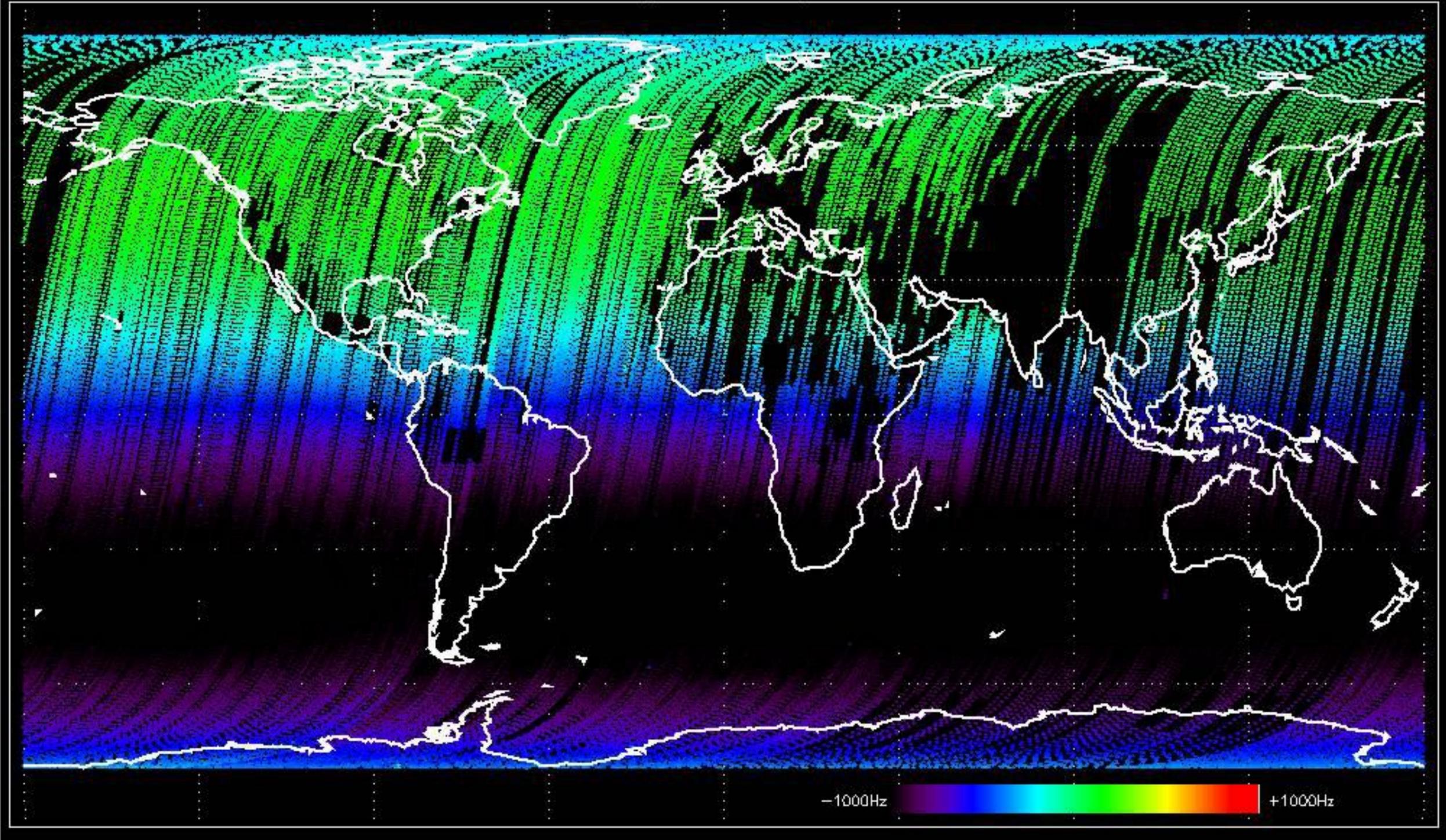
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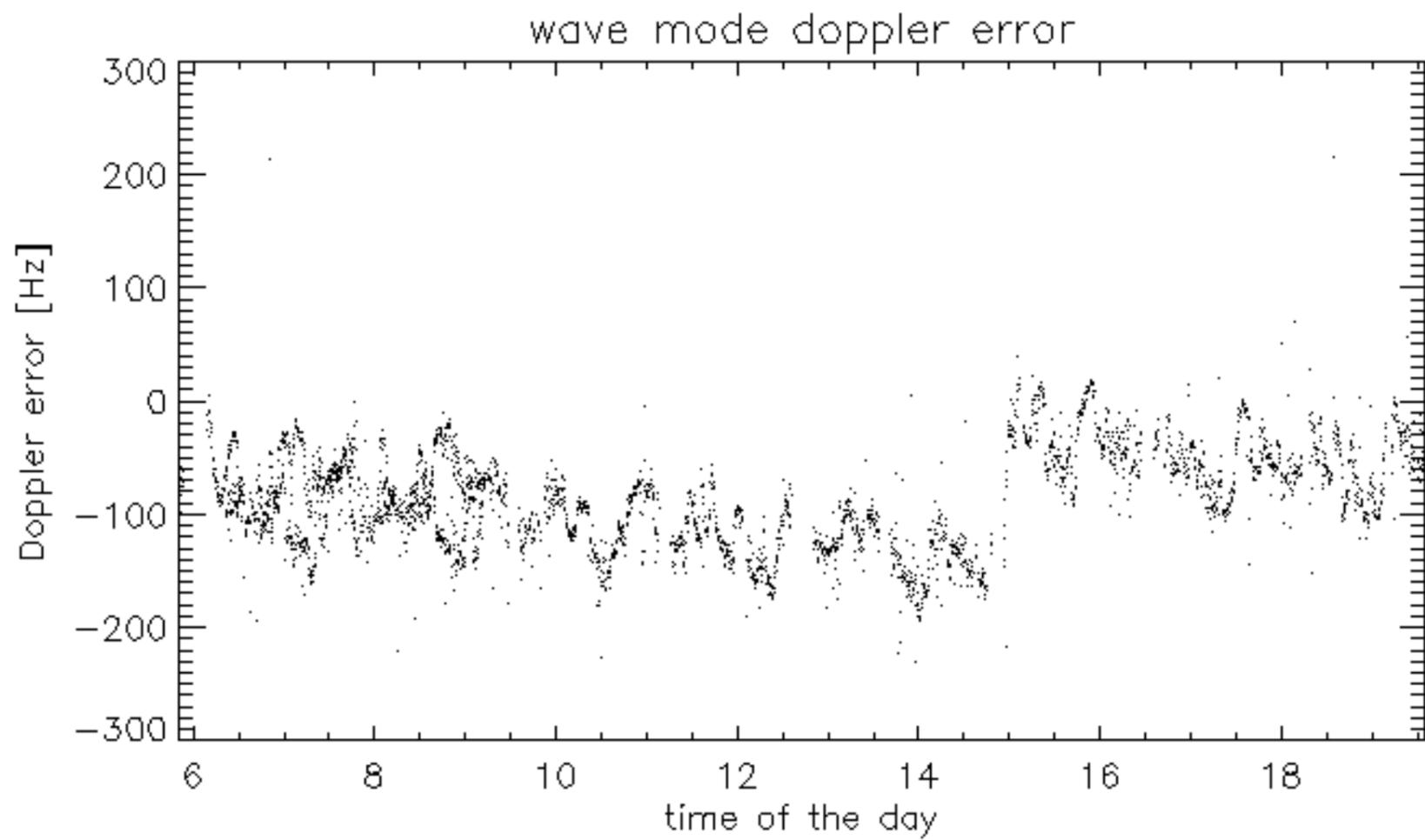
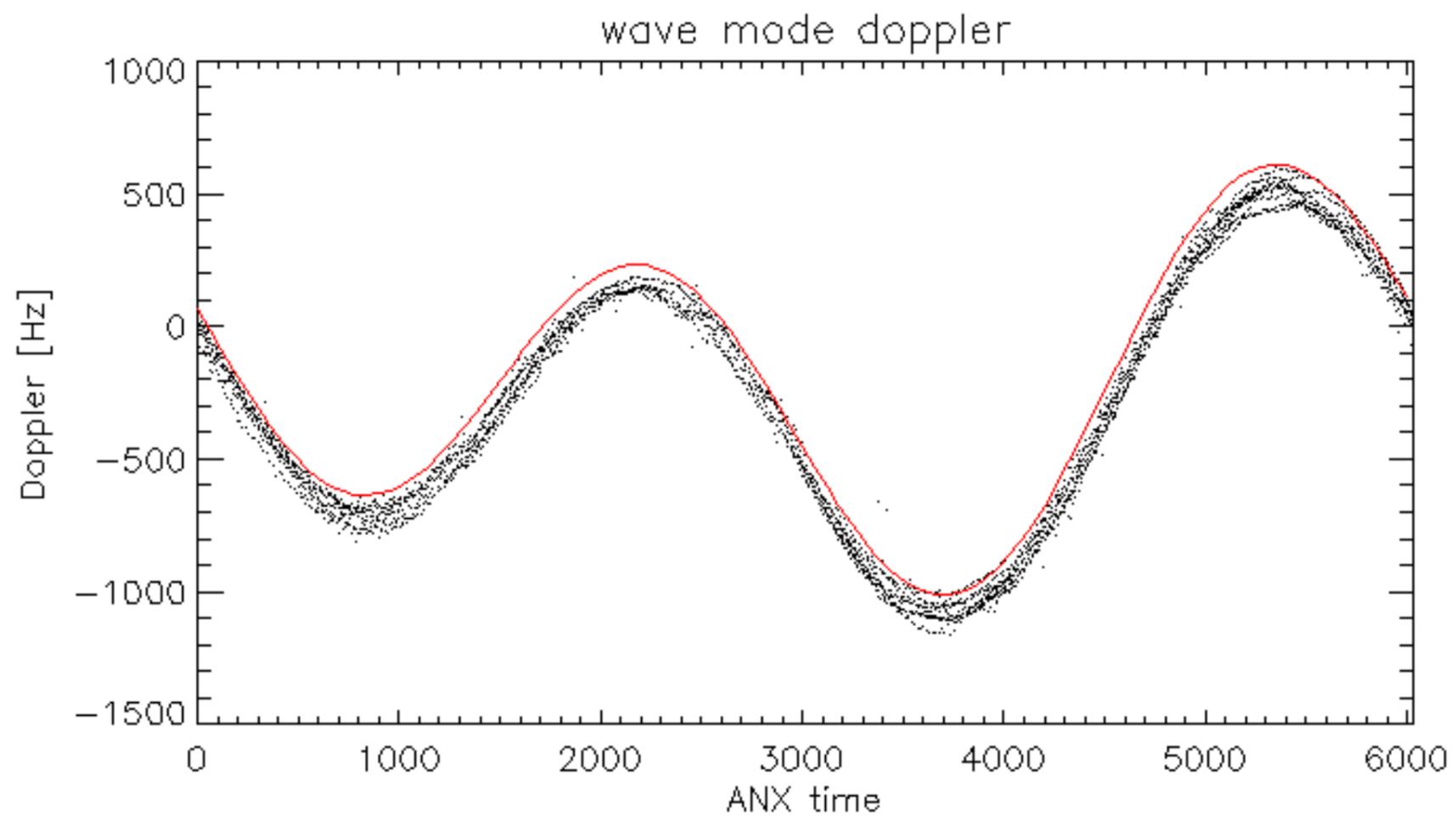
No anomalies observed on Doppler evolution.
Doppler analysis performed over the last 60 days.

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

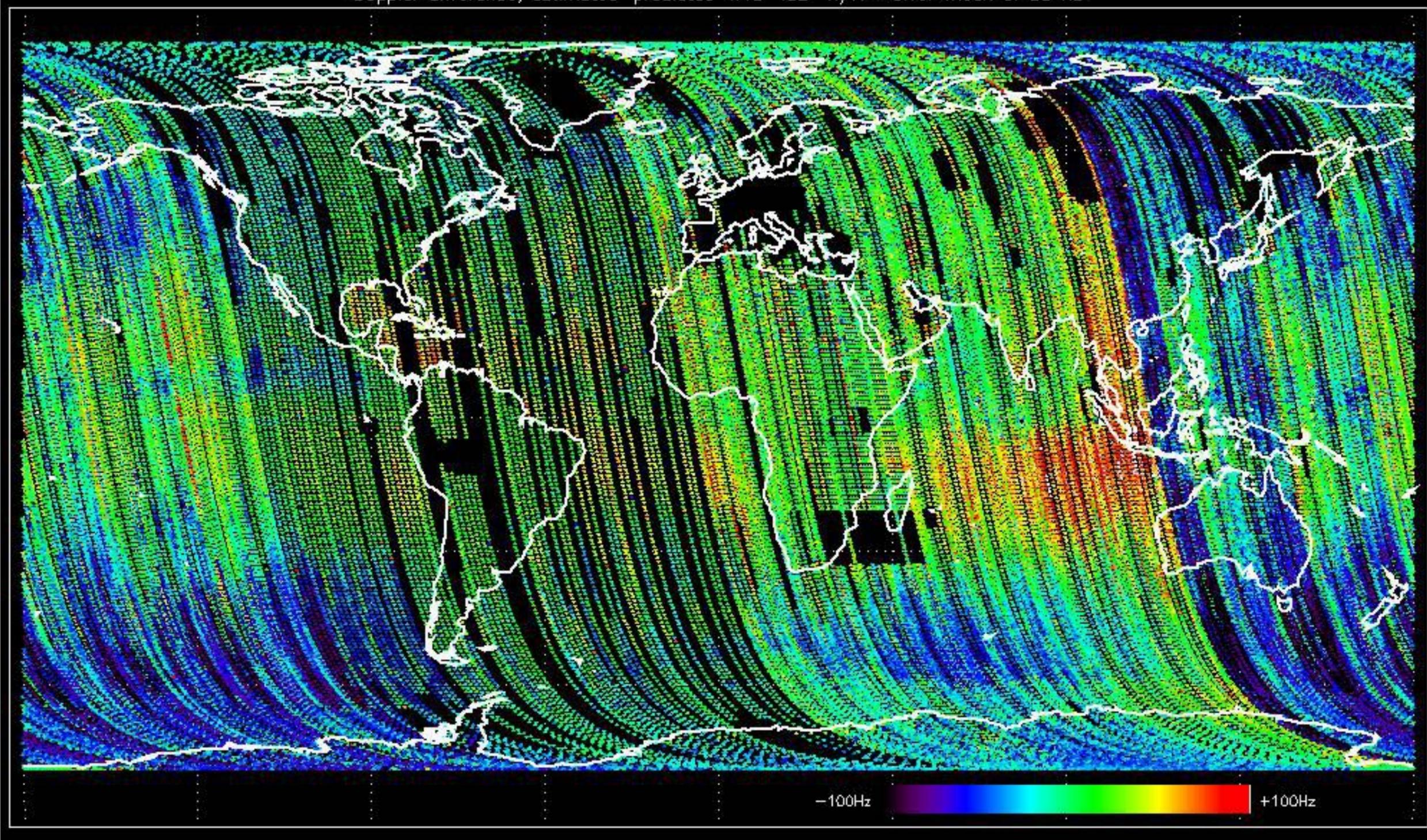


Doppler 'WS' 'IS2' 'V/V'

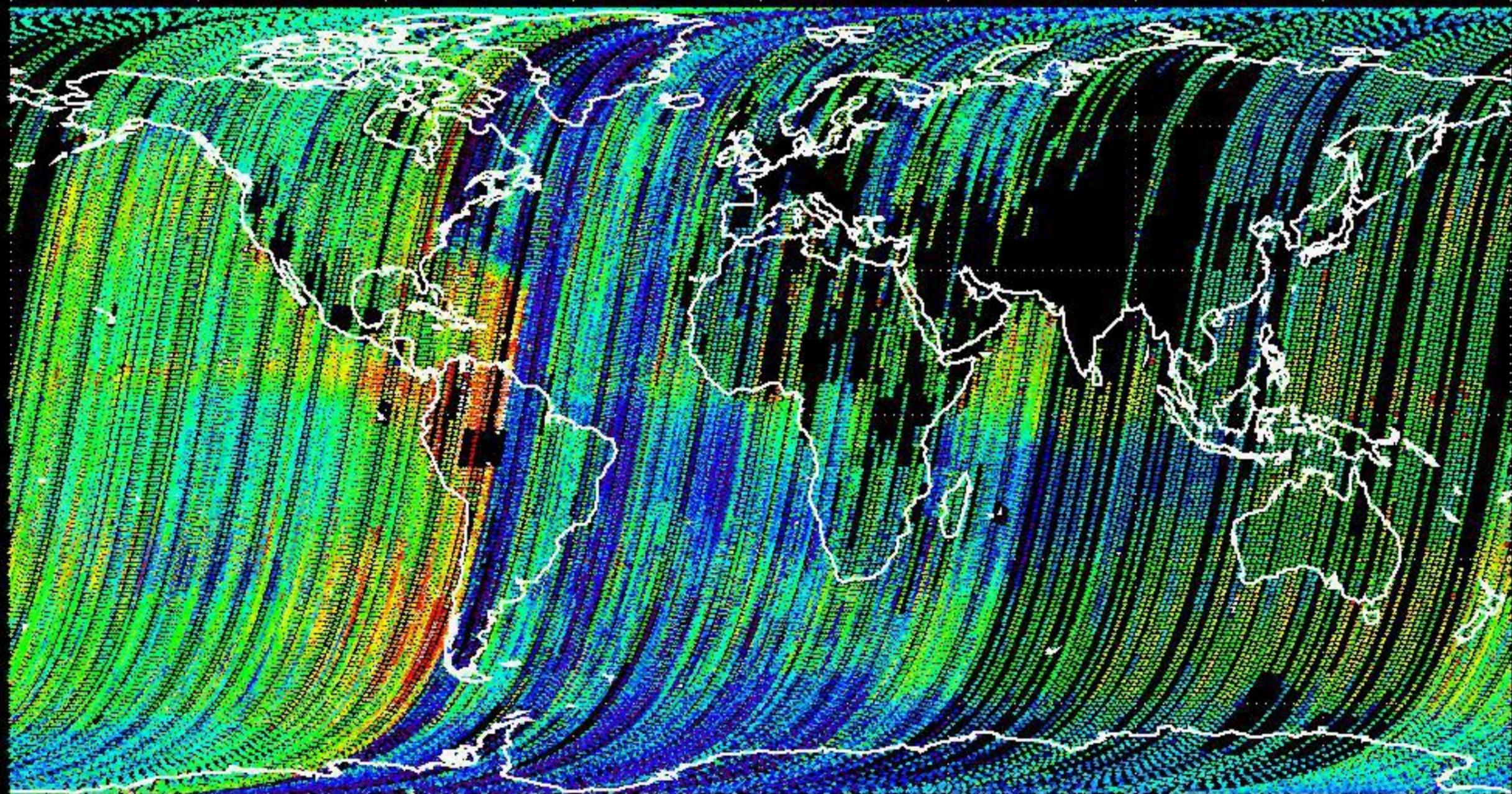




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



-100Hz

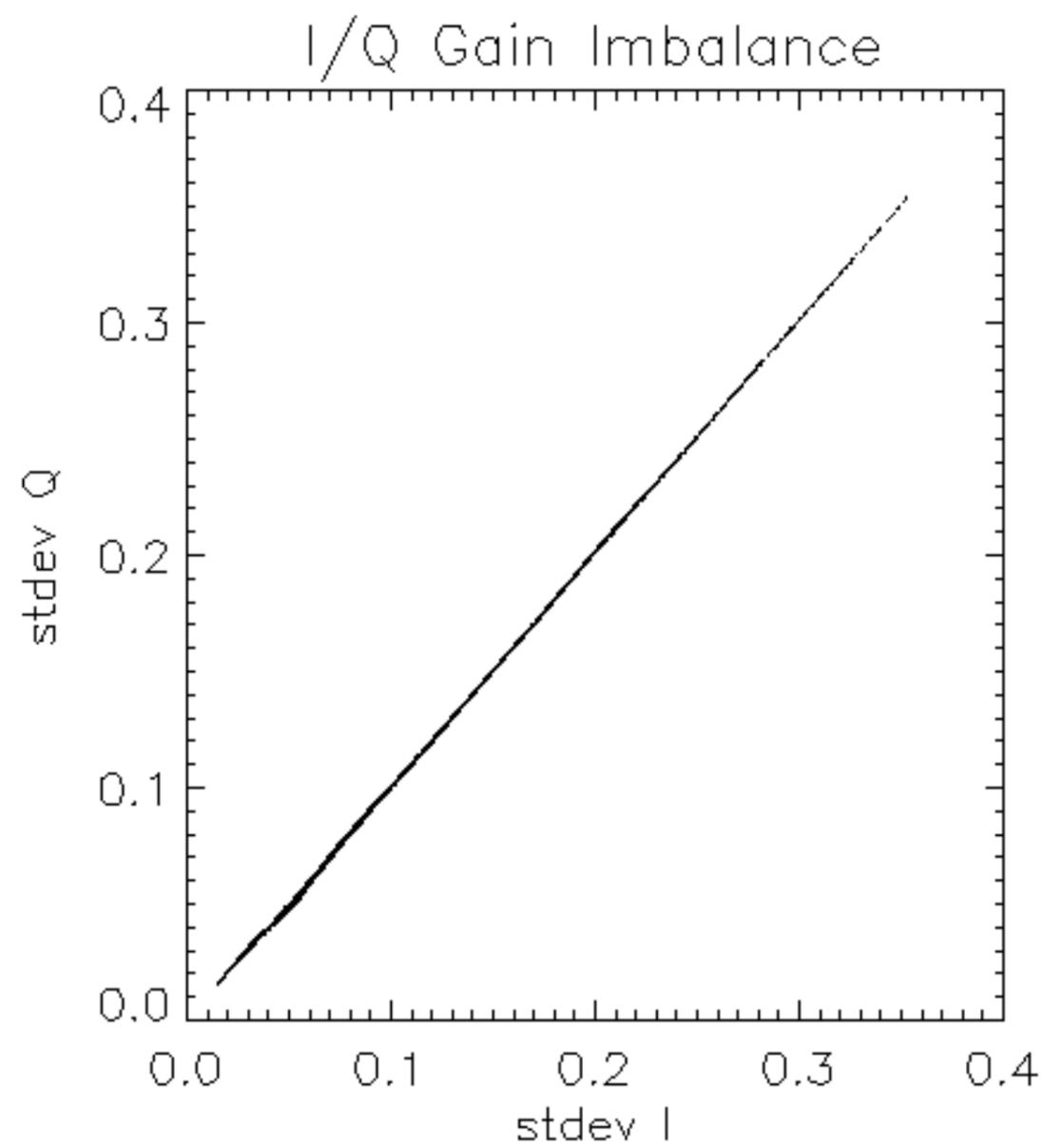


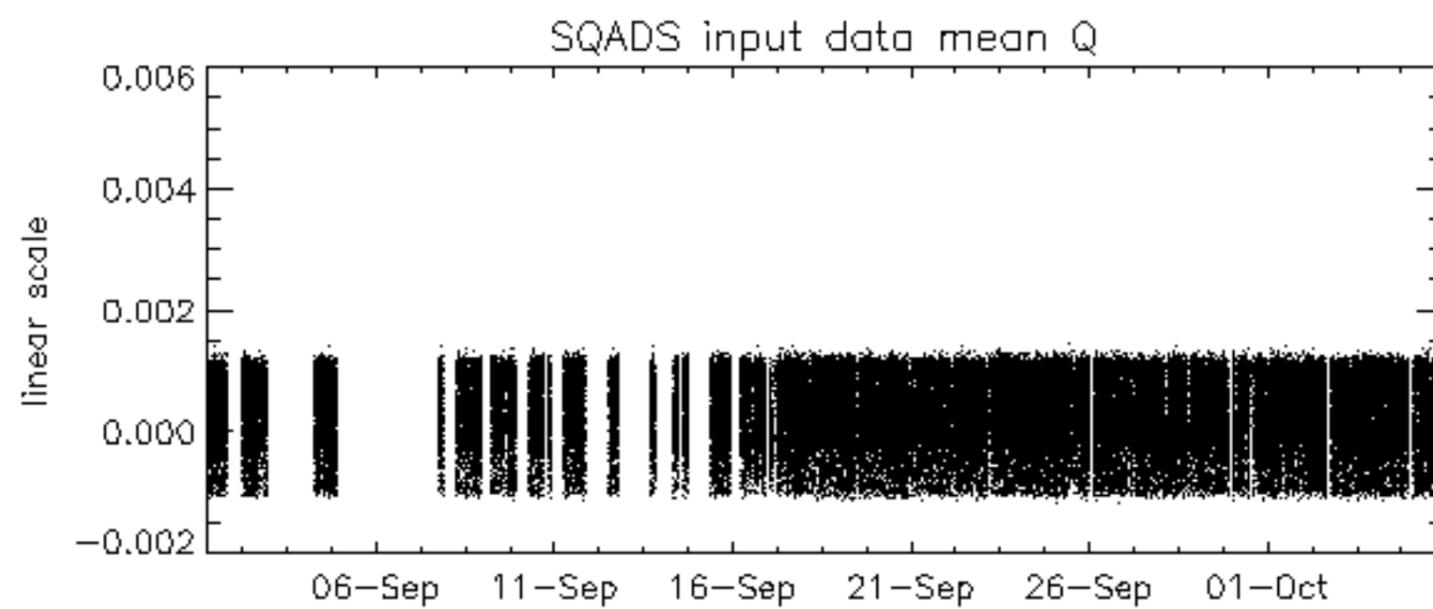
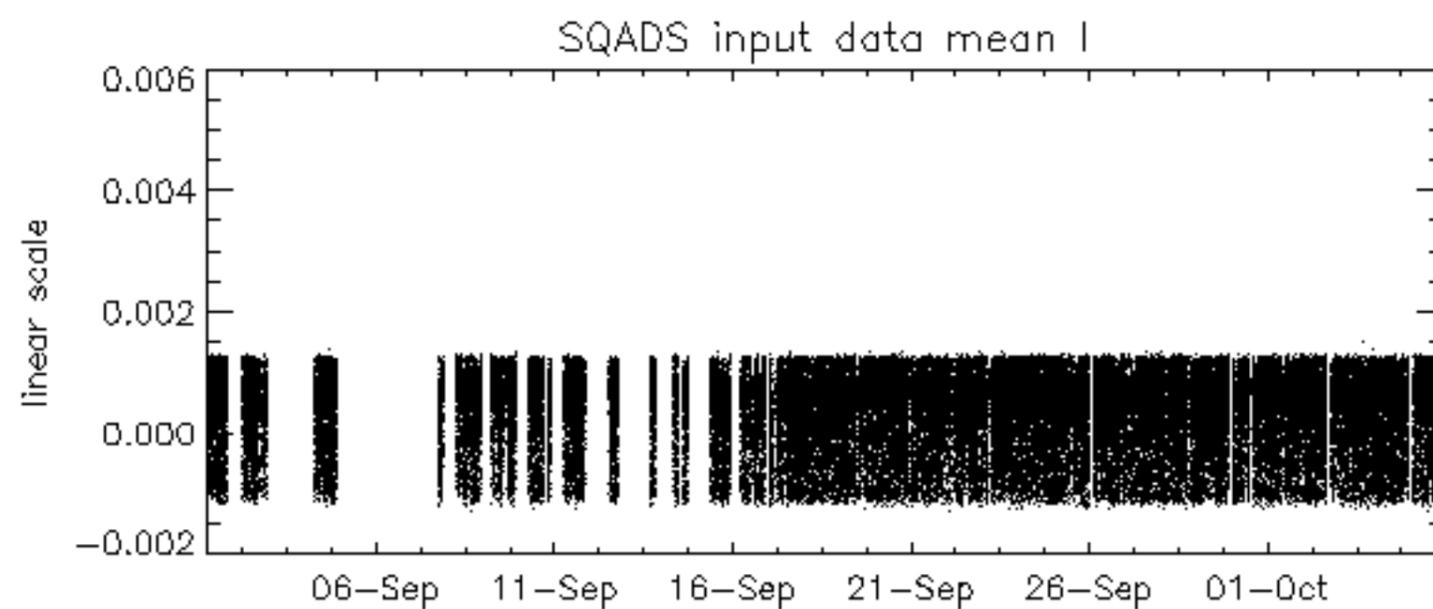
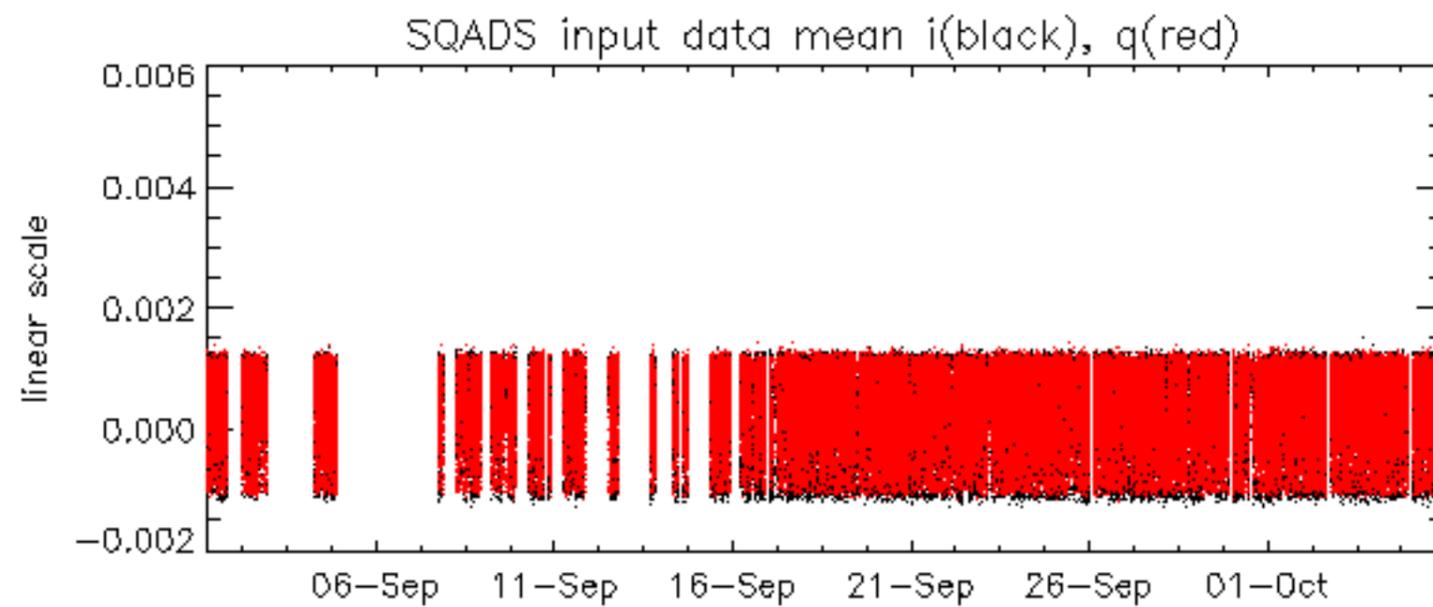
+100Hz

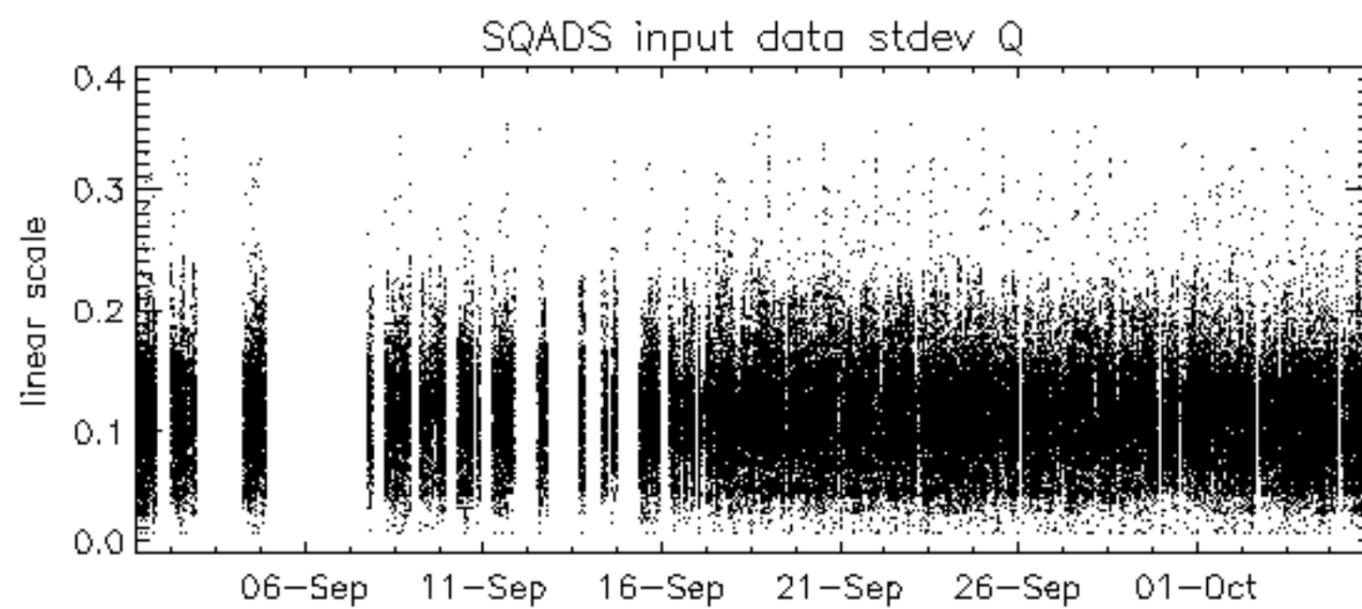
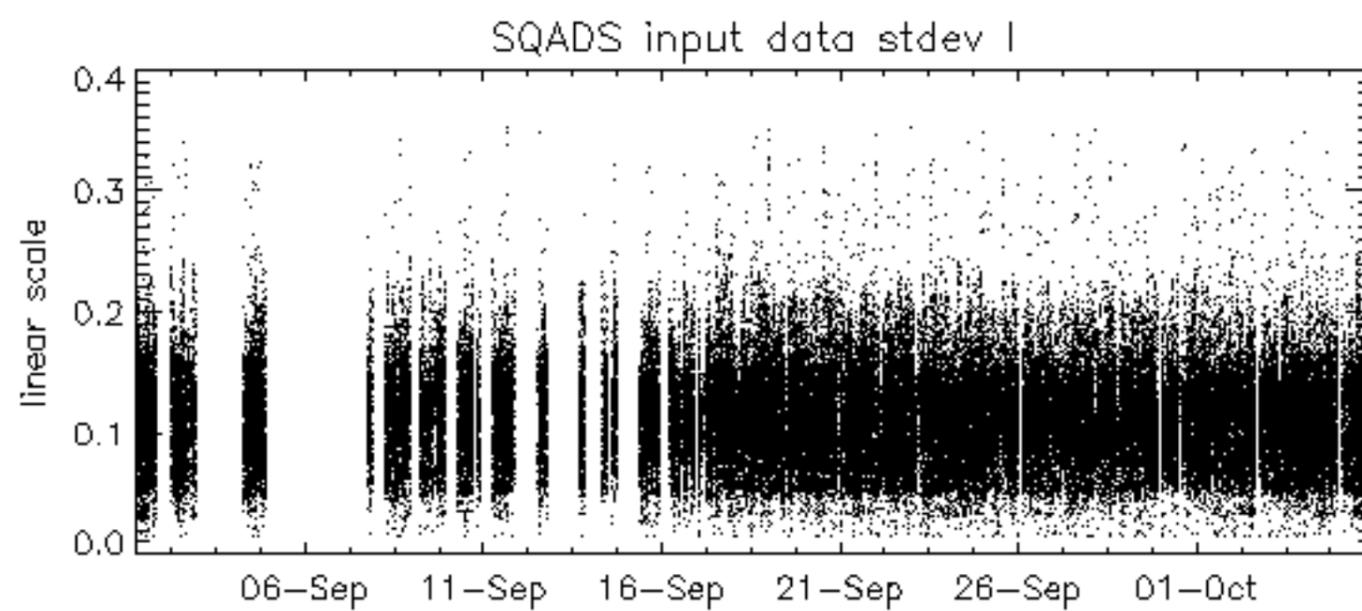
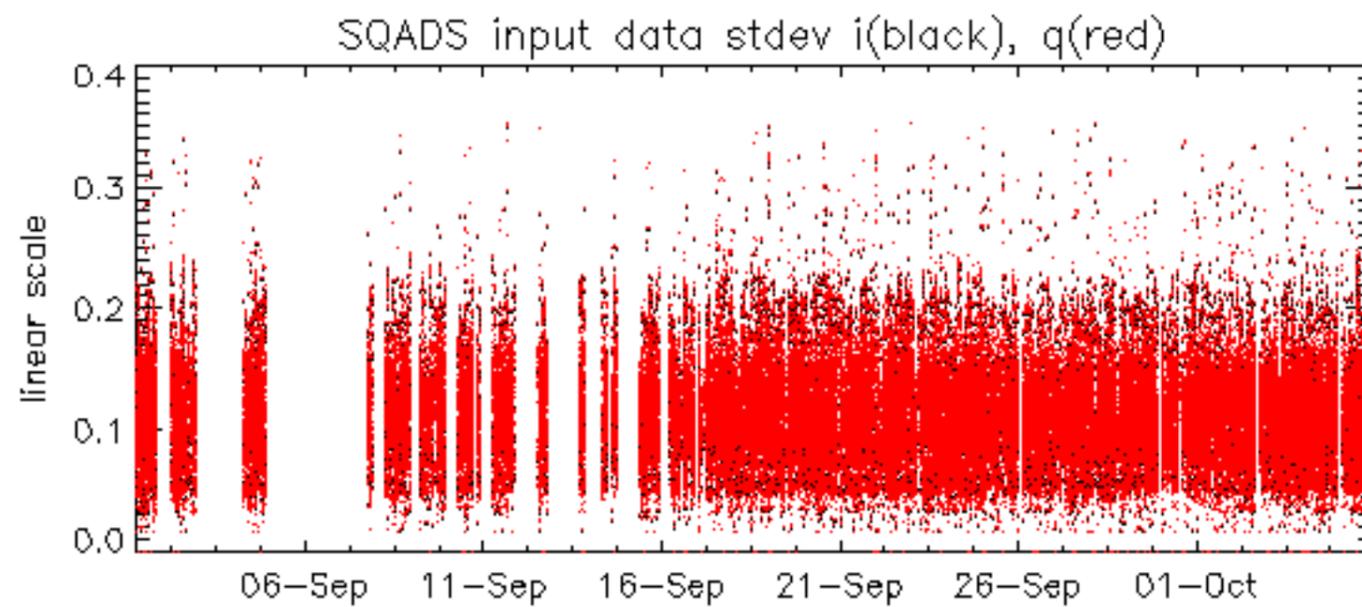
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- ASA_MS__0PNPDK20031005_194124_000000152020_00285_08355_0111.N1

No anomalies observed.







No unavailabilities during the reported period.