

REPORT OF 030925

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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:









- ASA_MS__0PNPDK20030924_202725_000000152020_00128_08198_0088.N1
- ASA_MS__0PNPDK20030924_202905_000000152020_00128_08198_0087.N1

The drift in phase for TR module 3 on Tile B3 has decreased to a stable configuration as shown in the figure below.











Polarisation	Start Time
V	20030924 202905
H	20030924 202725

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	-3.79966	-22.5325	-8.13439
	stdev	0.00427599	0.0600209	0.00247285
10	mean	-6.88788	-19.3104	-8.13439
	stdev	0.0257708	0.0554817	0.00247285



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79889	-22.5294	-8.11674
	stdev	0.00551308	0.0625731	0.00257101
10	mean	-6.89579	-19.3187	-8.11674
	stdev	0.0269023	0.0615268	0.00257101



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	0.000382736
	stdev	3.47157e-07
MEAN Q	mean	0.000309760

stdev	3.15724e-07
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5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115973
	stdev	0.00146319
STDEV Q	mean	0.116194
	stdev	0.00148314



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed 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

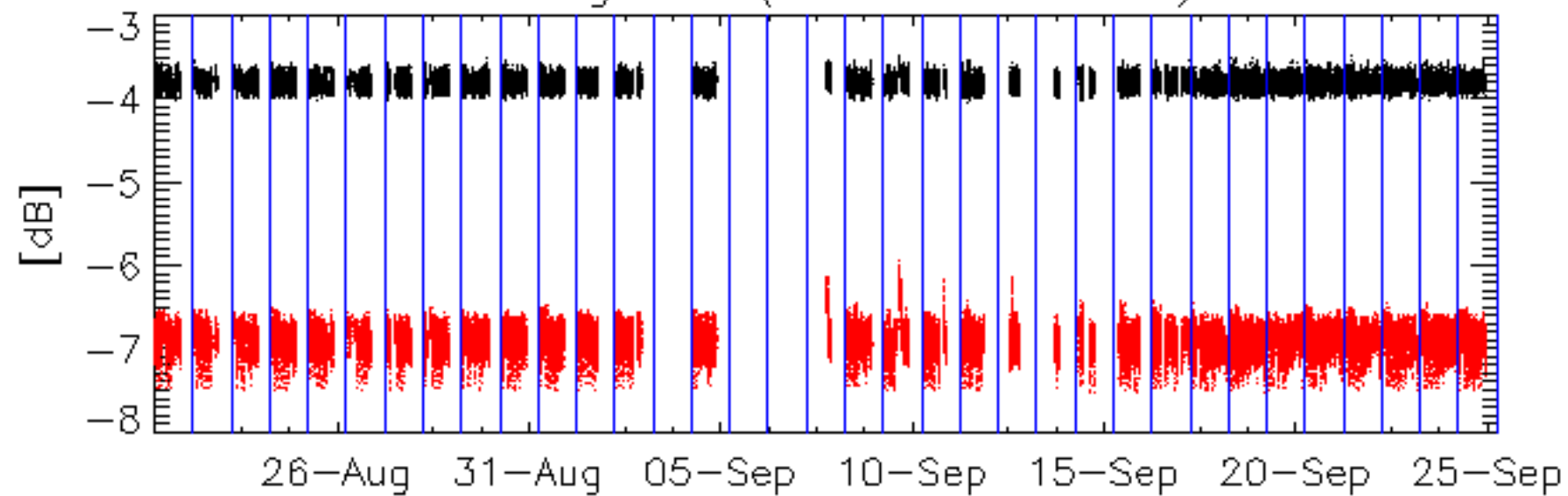
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

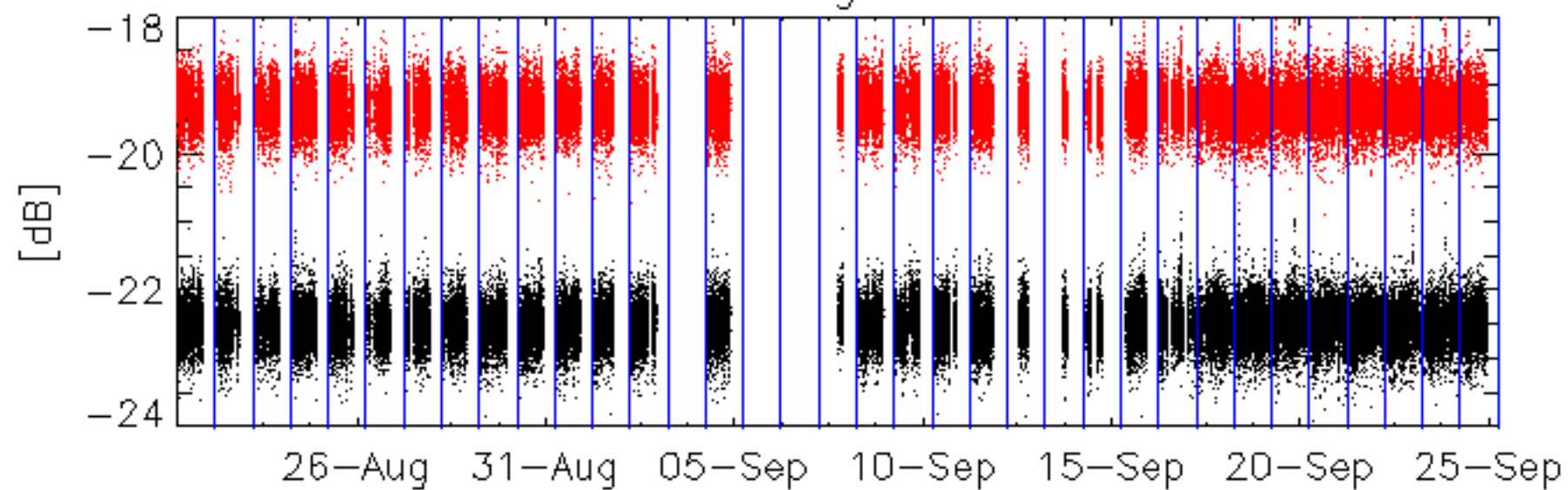
Evolution Doppler error versus ANX



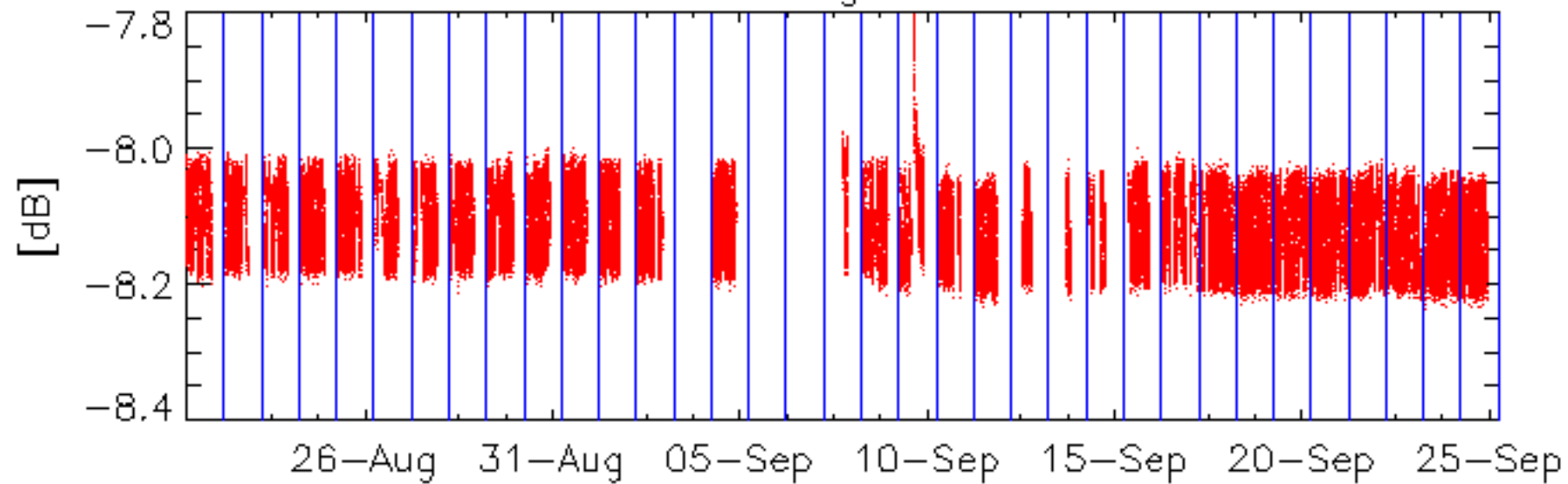
Average P1 (row 3 & row 10)



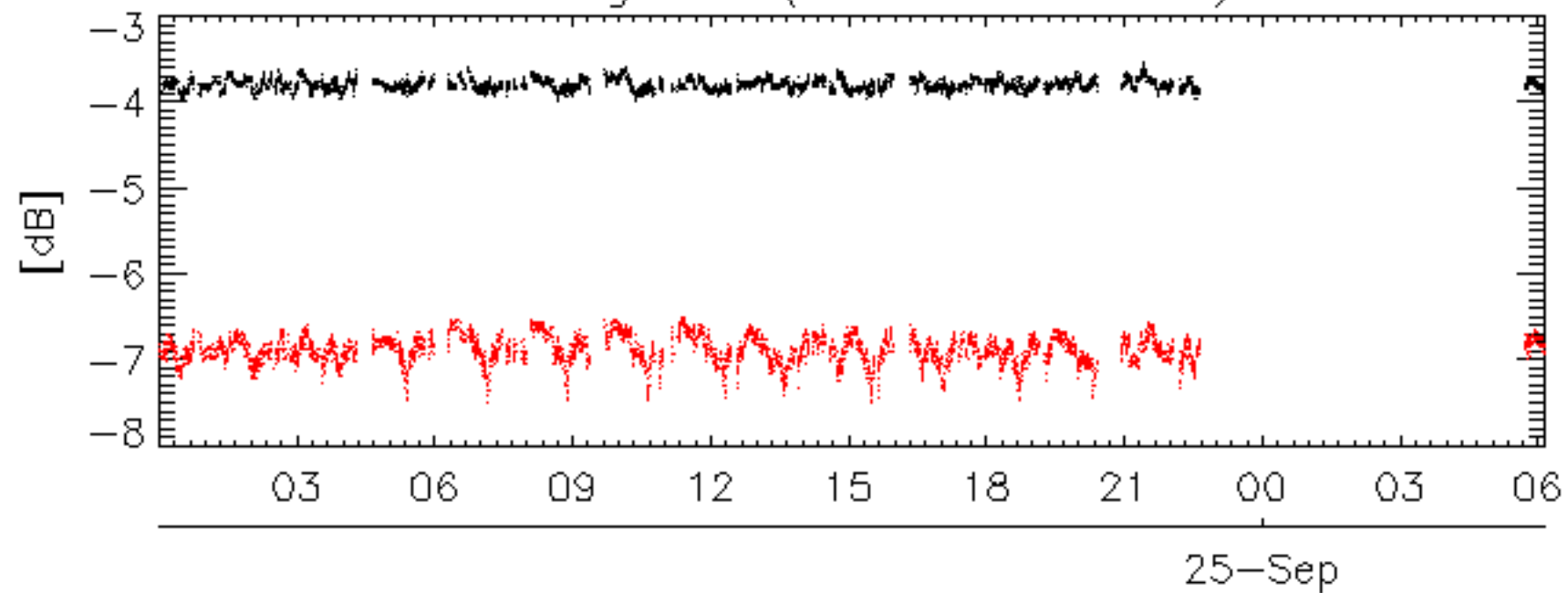
Average P2



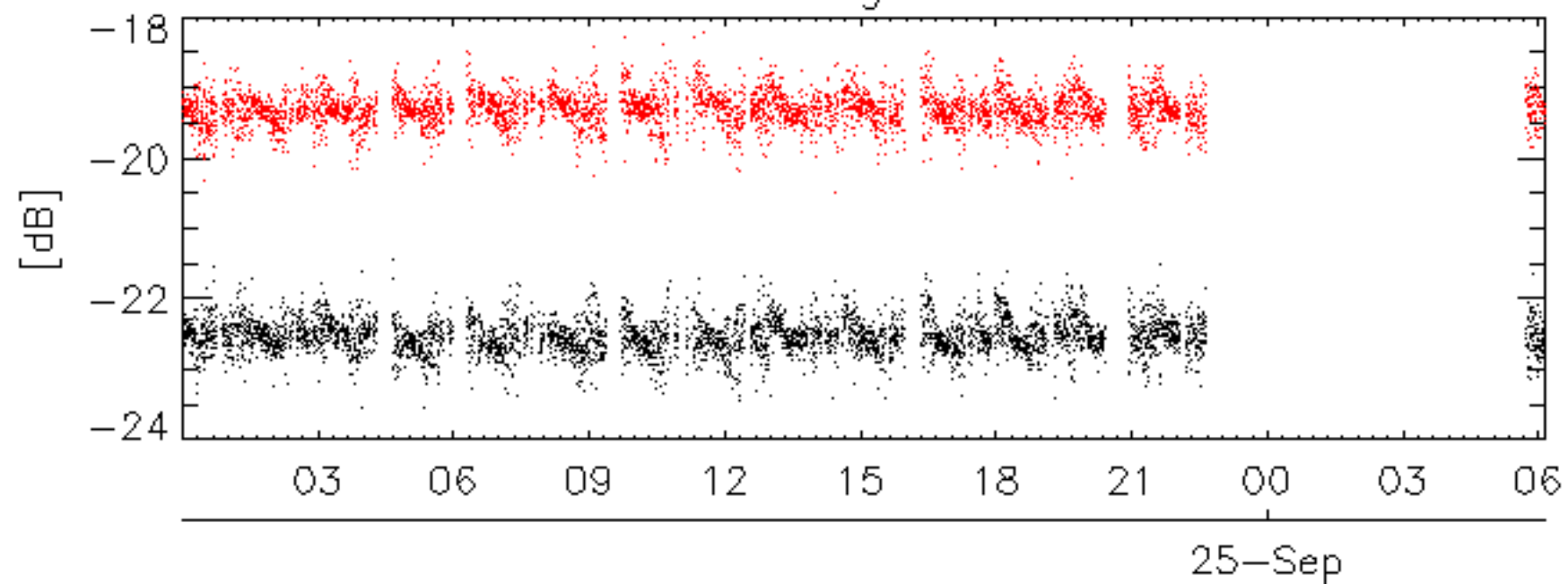
Average P3



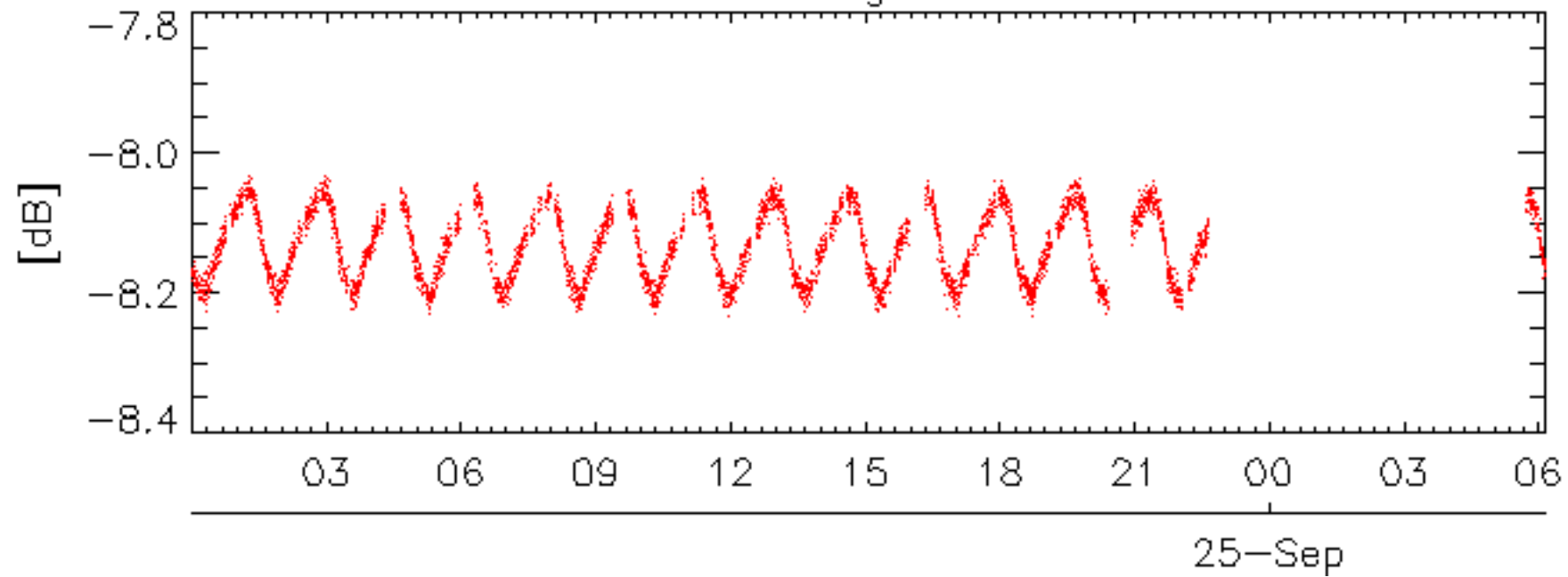
Average P1 (row 3 & row 10)



Average P2

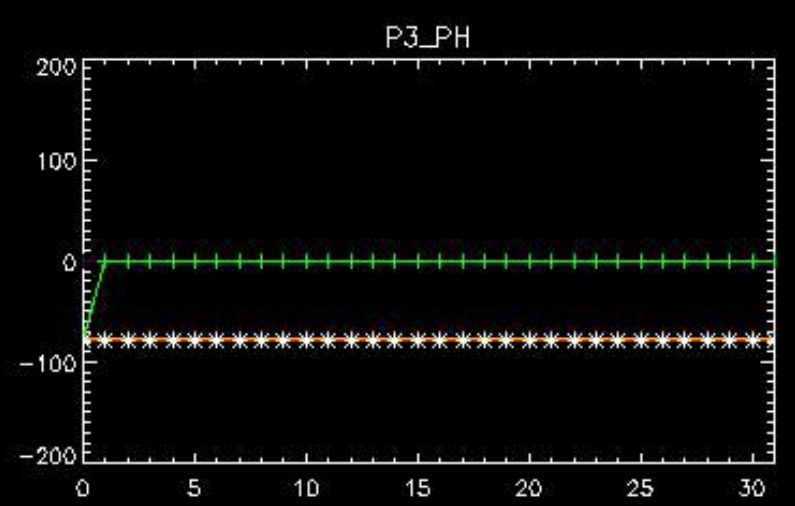
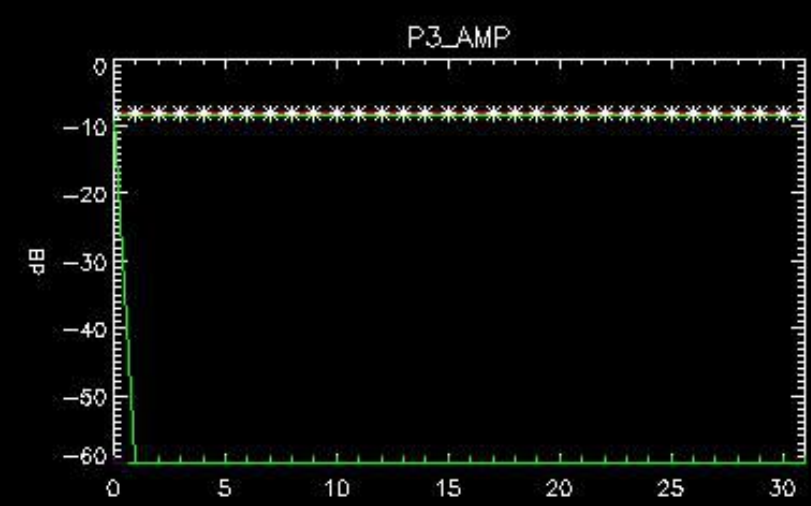
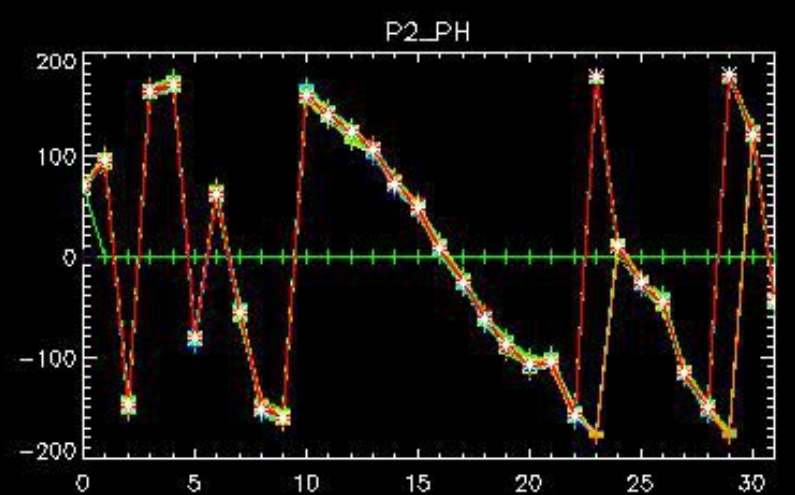
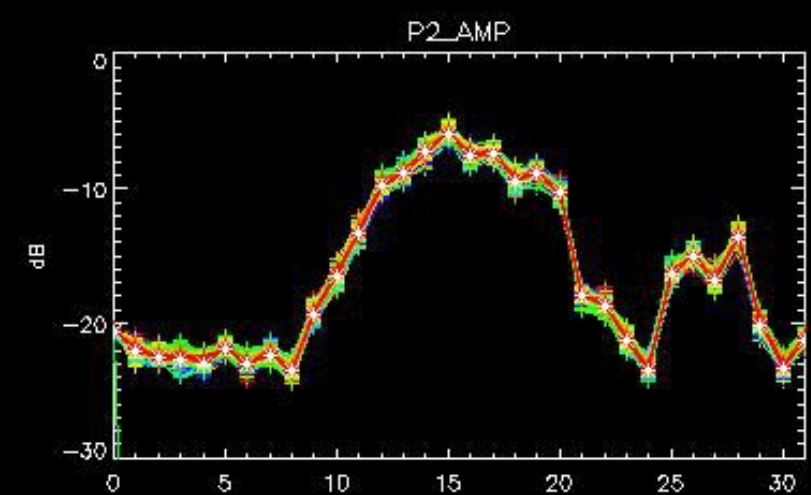
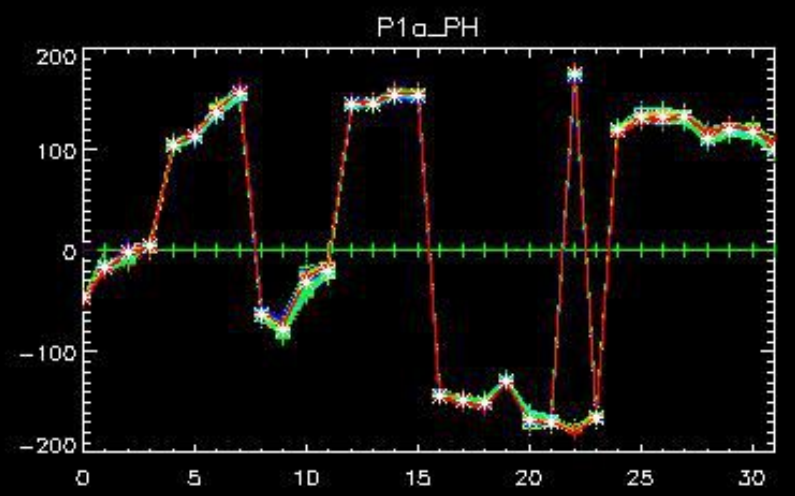
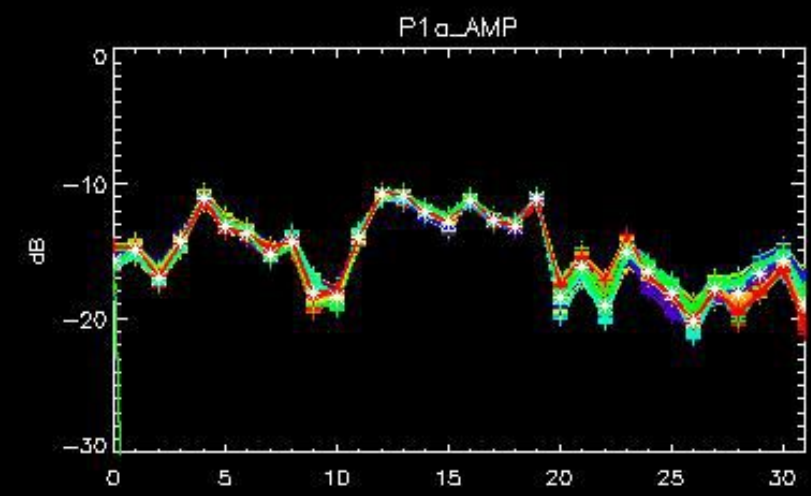
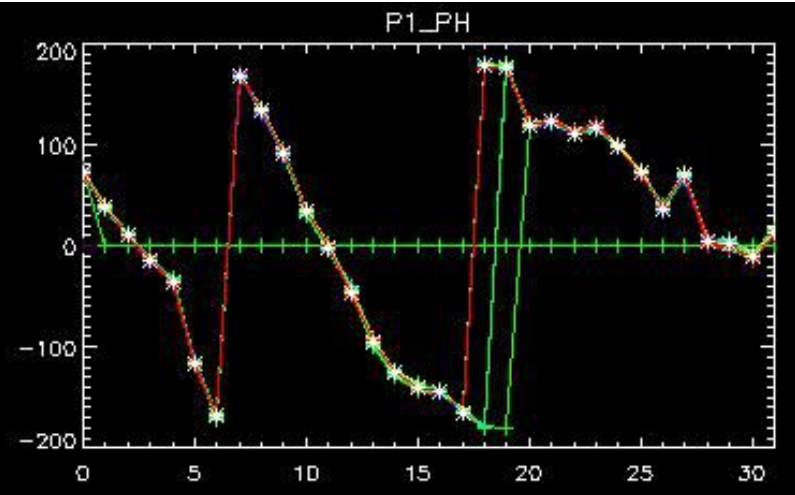
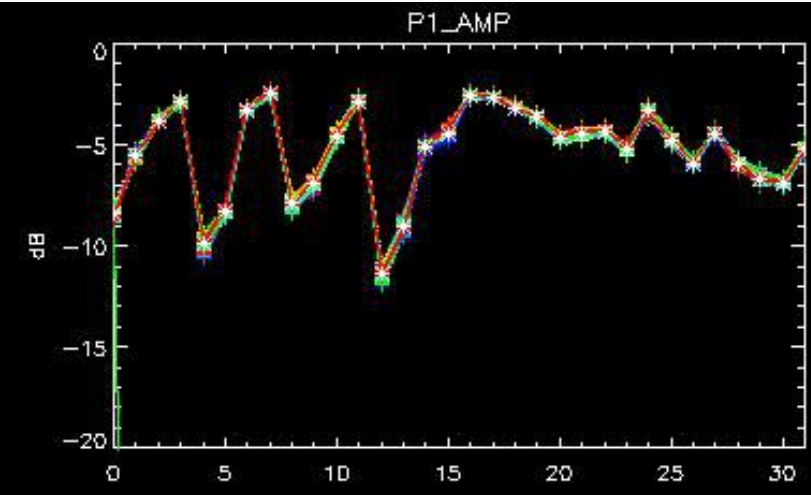


Average P3



No anomalies observed on available browse products

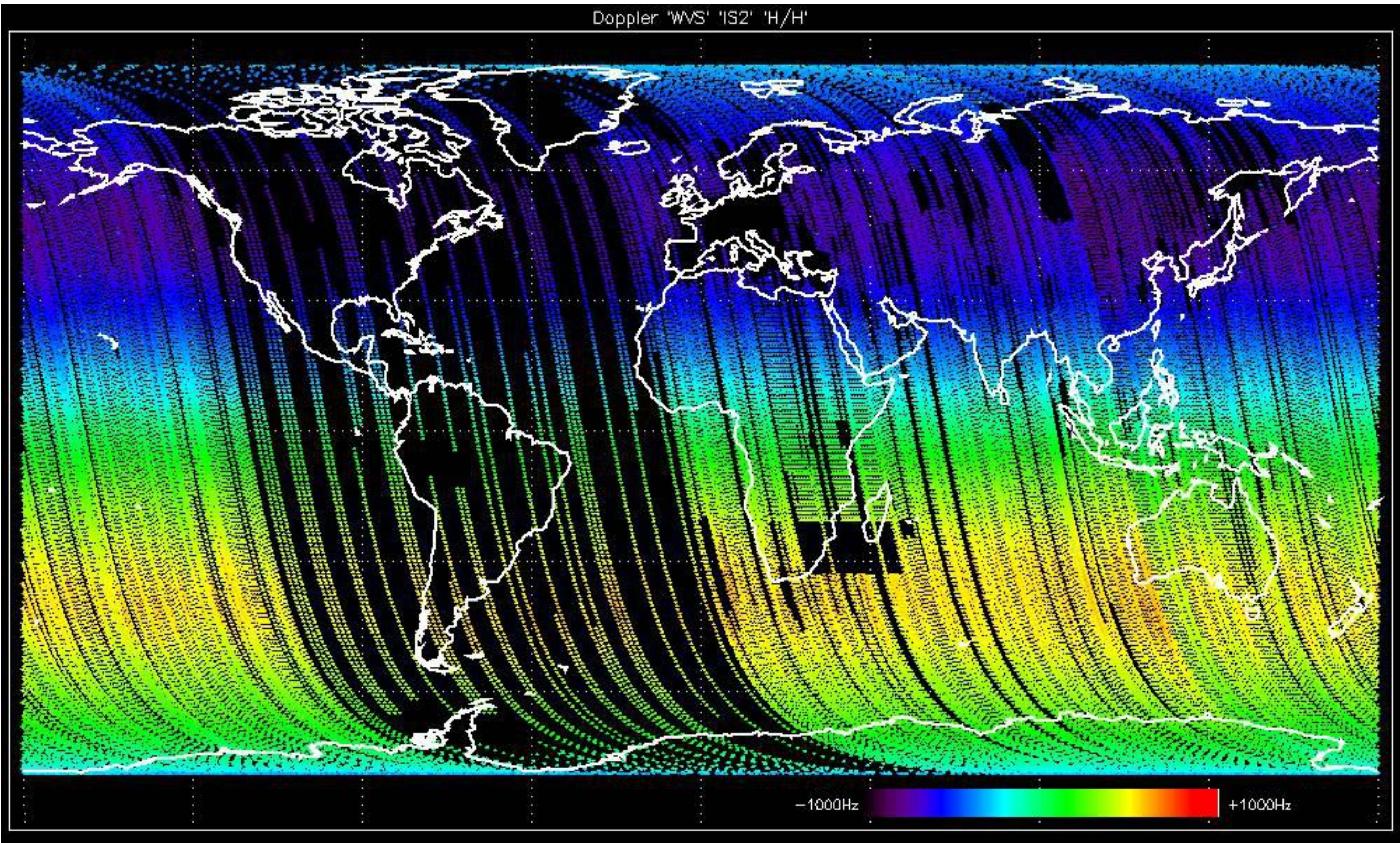
No anomalies observed.



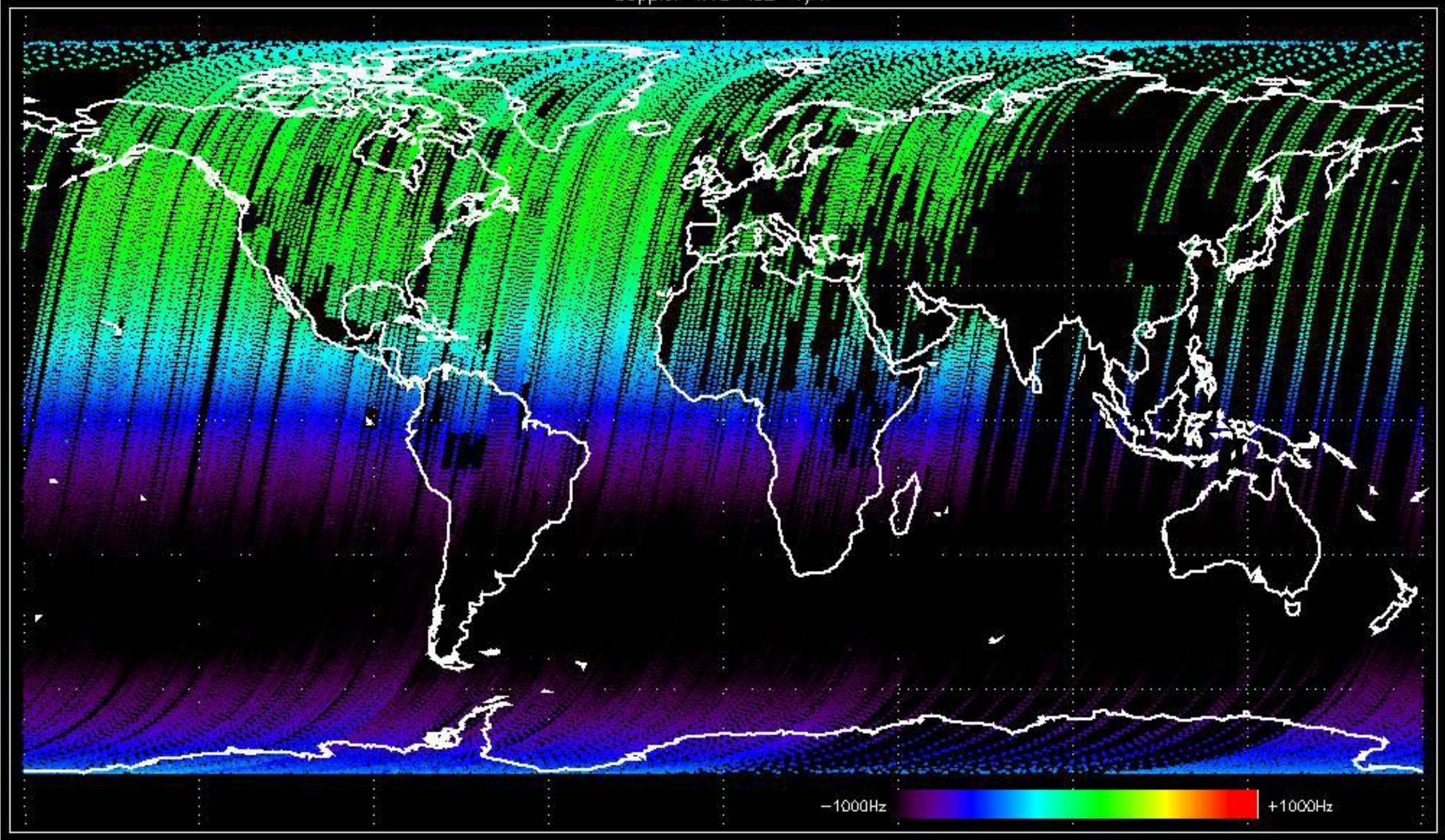
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
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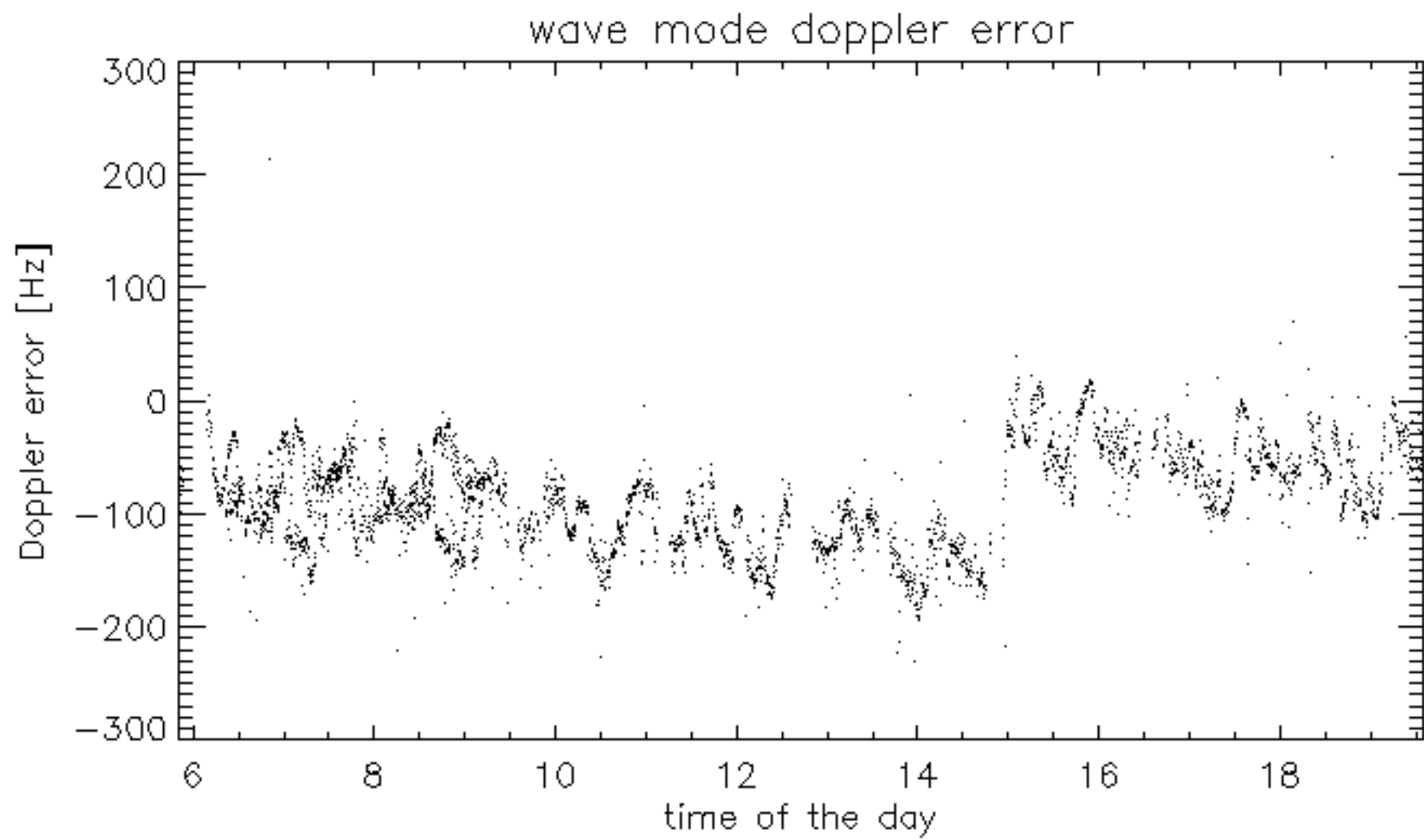
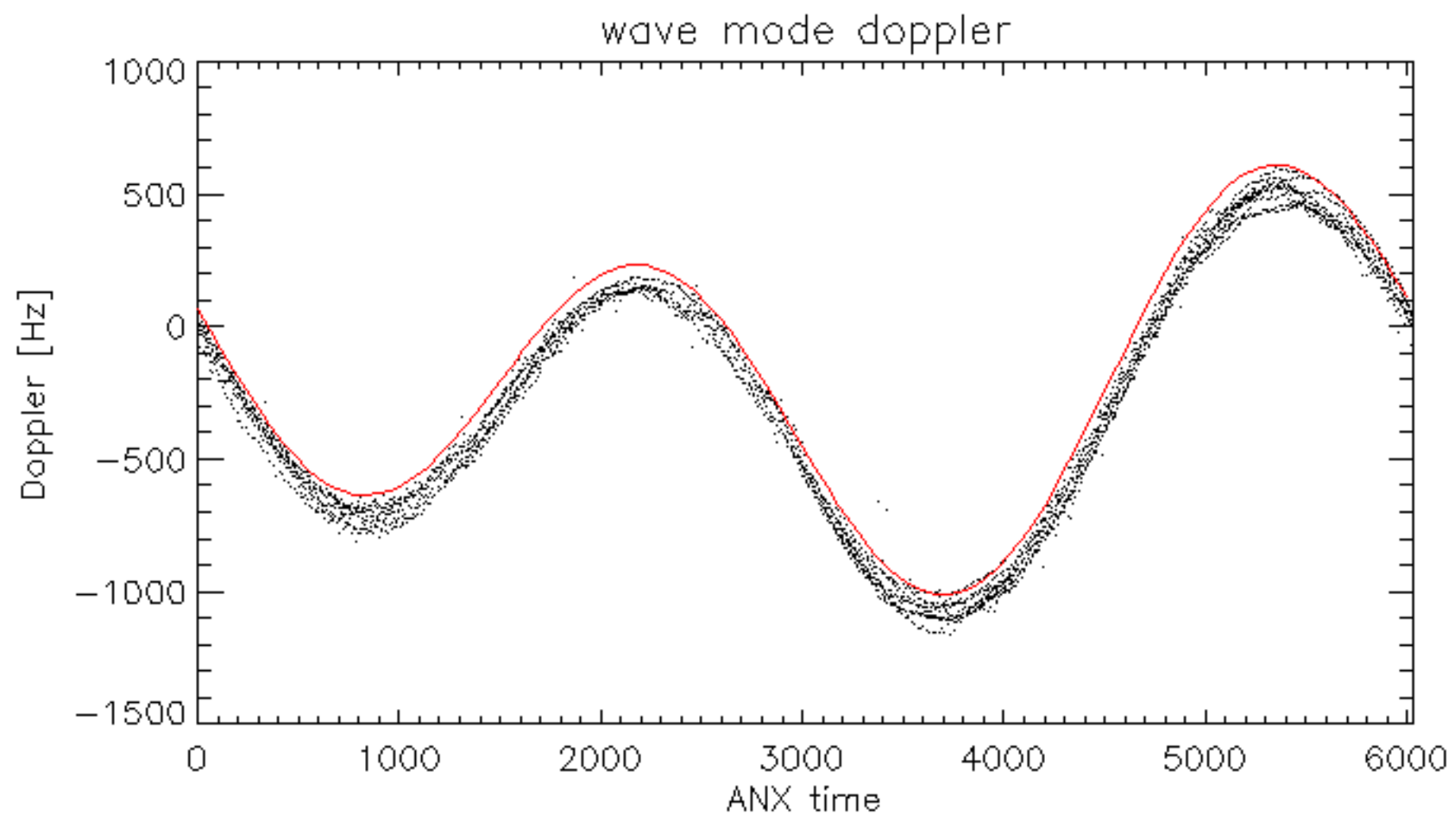
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

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

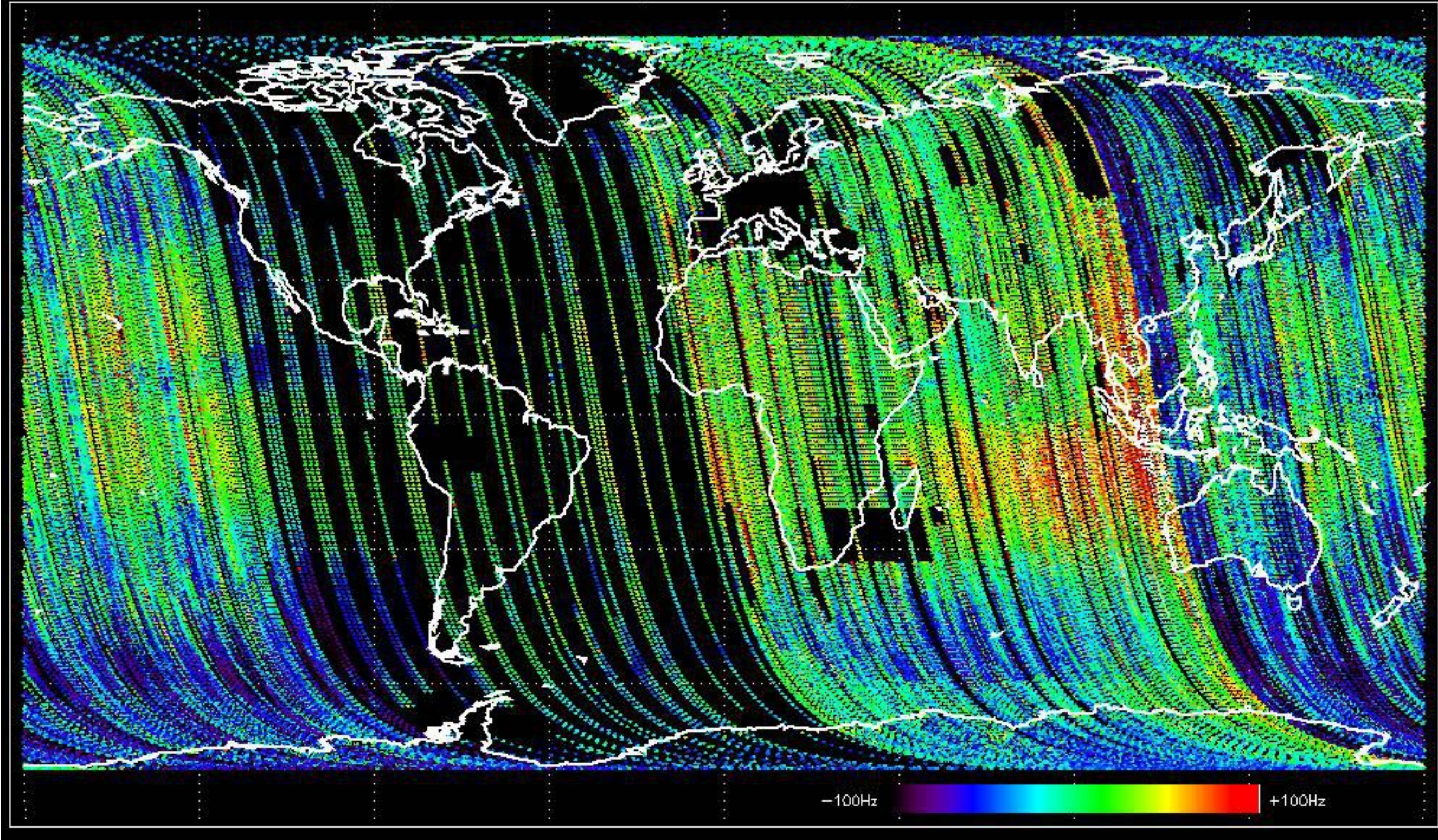


Doppler 'WVS' 'IS2' 'V/V'

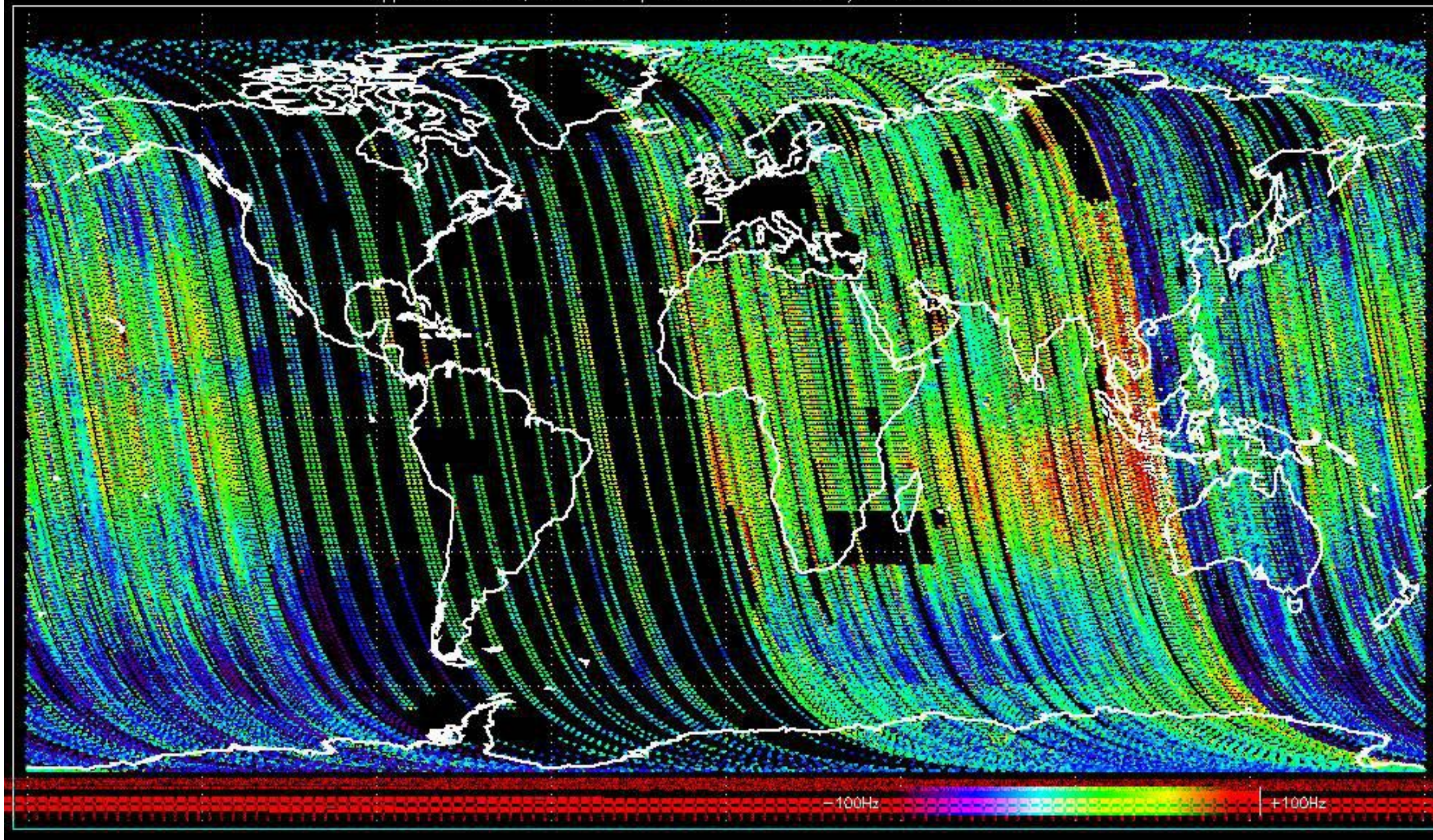




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



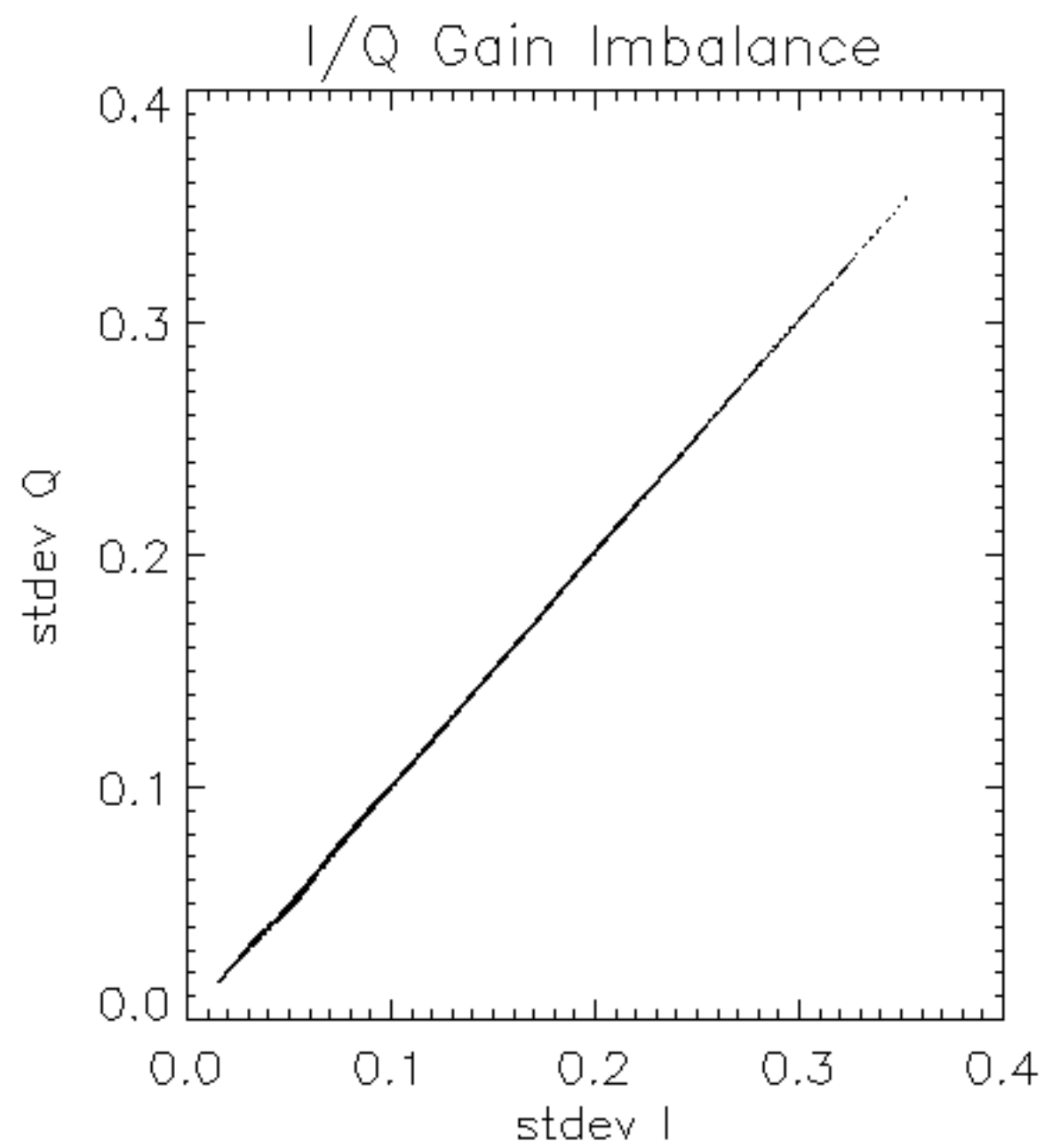
No anomalies observed on available MS products:

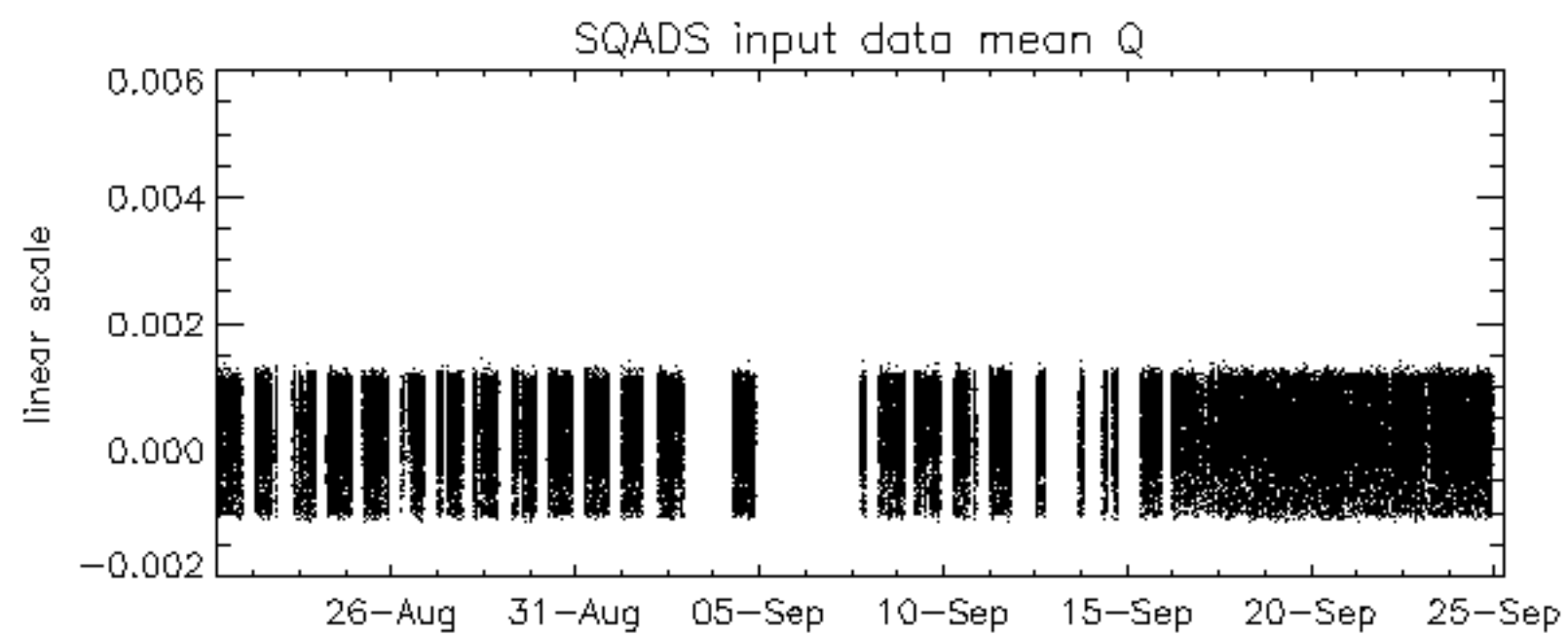
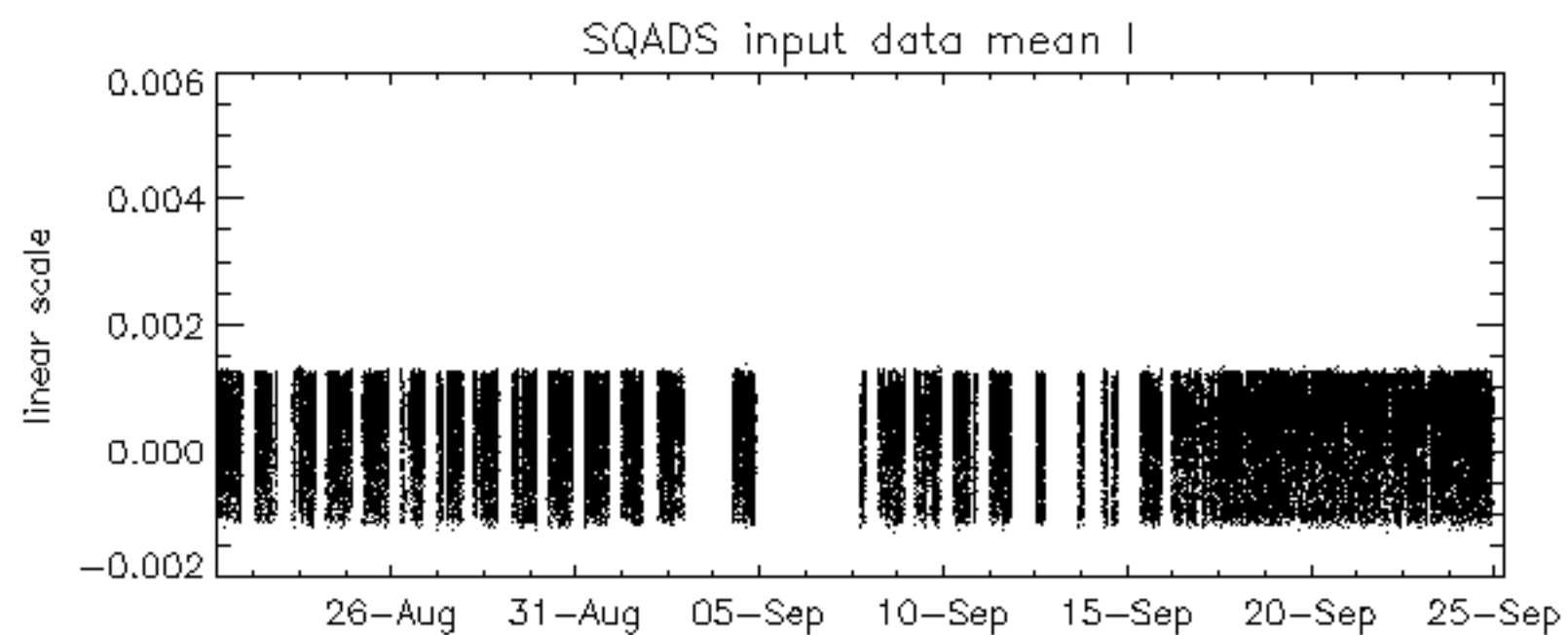
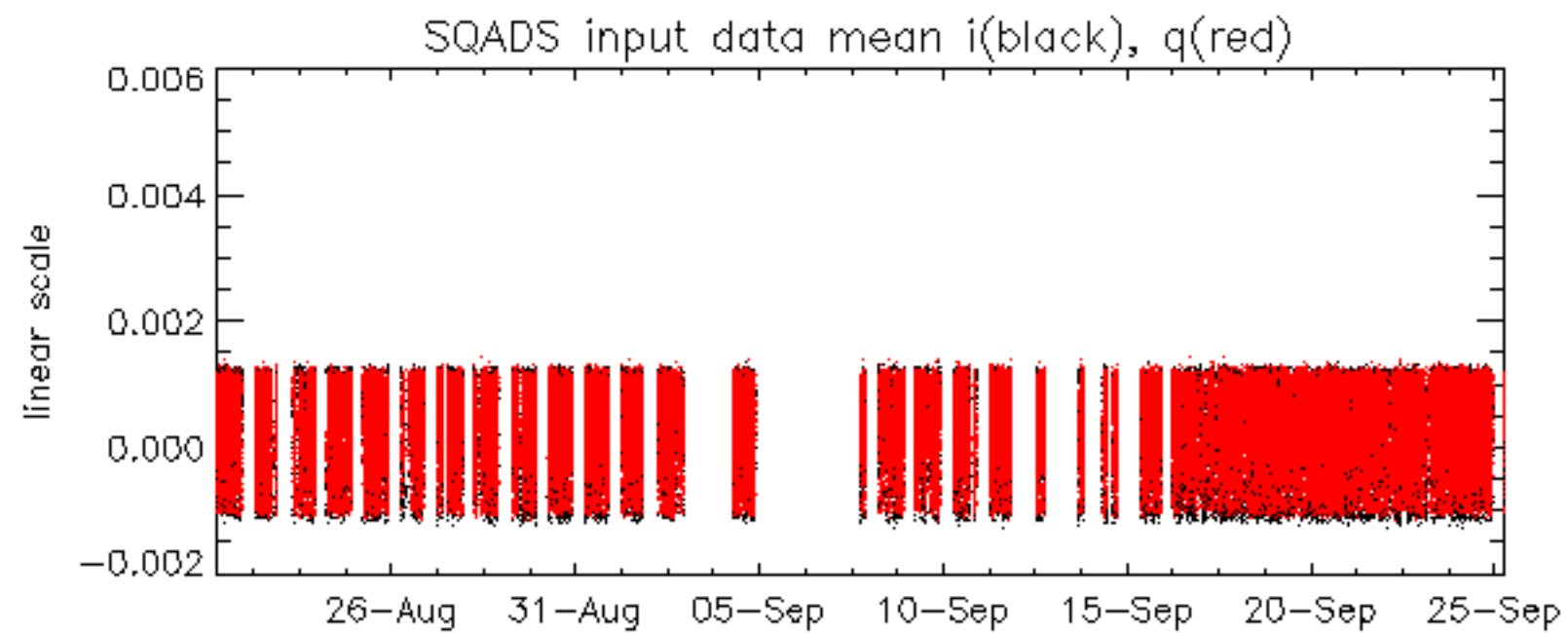
-ASA_MS__0PNPDK20030924_202725_000000152020_00128_08198_0088.N1

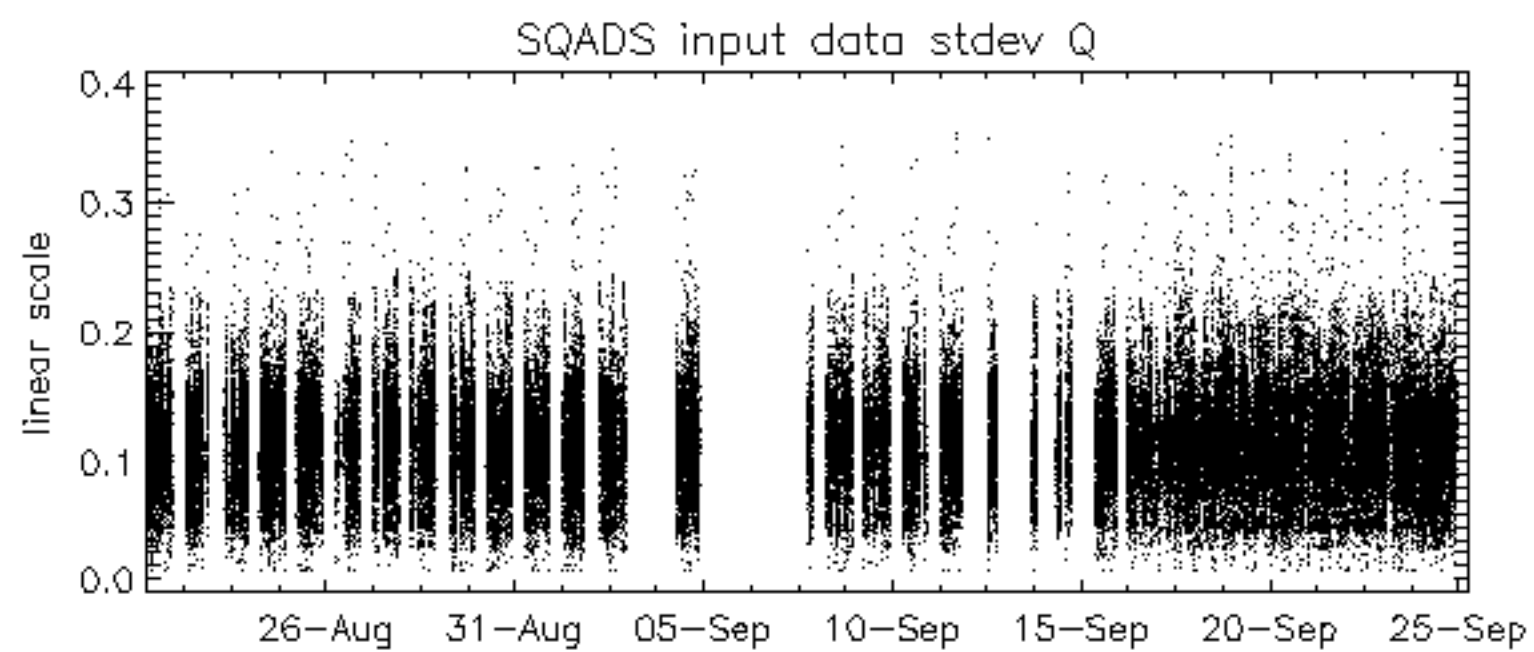
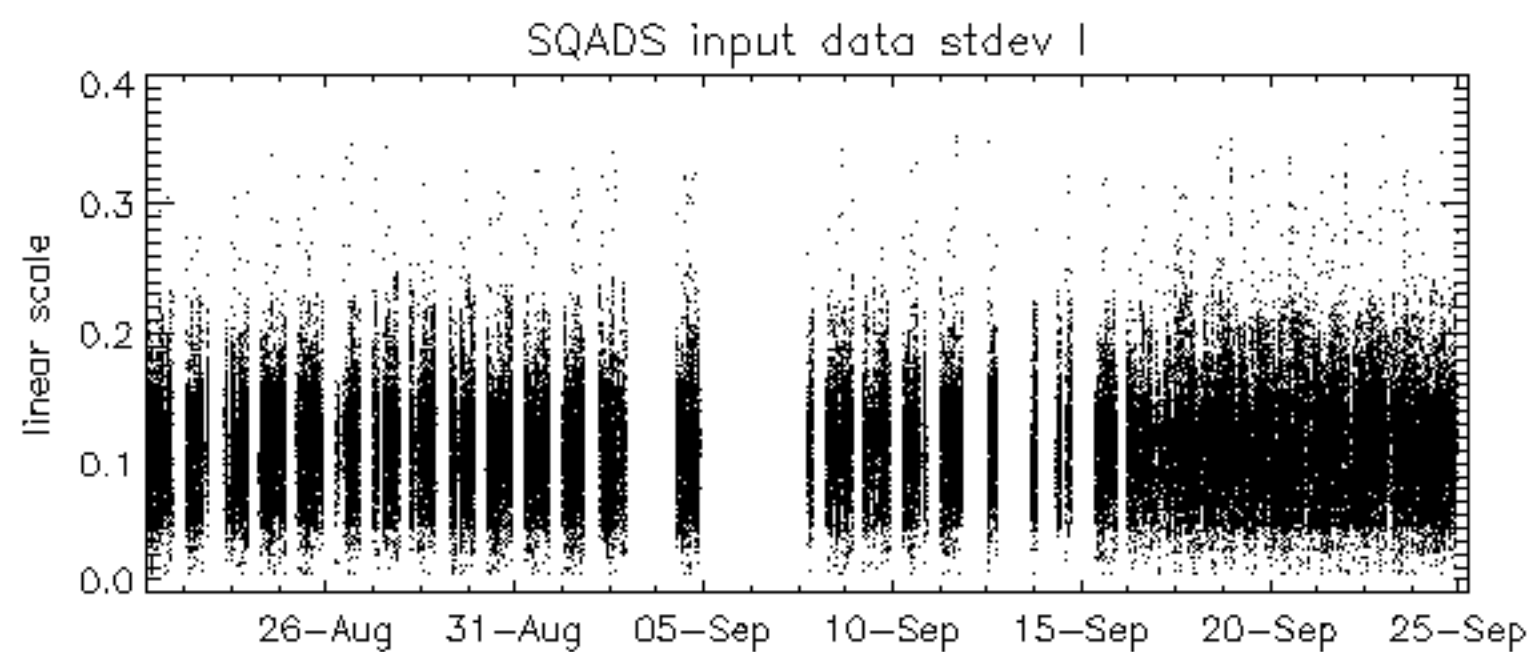
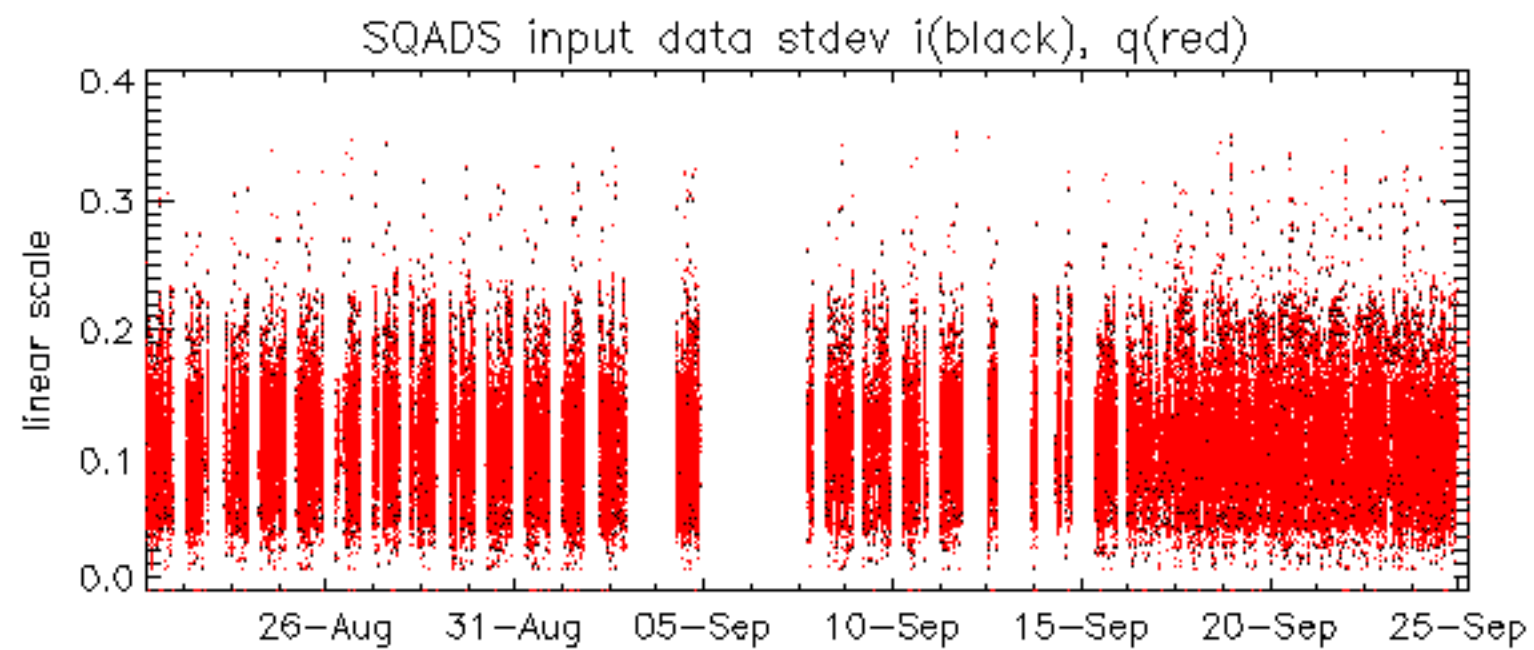
-ASA_MS__0PNPDK20030924_202905_000000152020_00128_08198_0087.N1

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No anomalies observed.







No unavailabilities during the reported period.