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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 available browse products.

2.3 - Data Analysis

- Data from Svalbard station are missing.
- 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 product:









- ASA_MS__0PNPDK20030729_201847_000000152018_00314_07382_0048.N1
- ASA_MS__0PNPDK20030729_202027_000000152018_00314_07382_0047.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	20030729 202027
H	20030729 201847

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. Nominal behaviour.
Stable statistics regarding the last 35 days.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.82397	-22.5627	-8.10788
	stdev	0.00590472	0.0653961	0.00204977
10	mean	-6.88998	-19.3247	-8.10788
	stdev	0.0271037	0.0596639	0.00204977



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.87041	-22.5684	-8.10007
	stdev	0.0851367	0.0626074	0.00286476
10	mean	-6.97570	-19.3246	-8.10007
	stdev	0.407552	0.0614963	0.00286476



4.3 - cal pulses monitoring (all rows)



5 - RAW data statistics

No anomalies observed. Nominal behavior.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000478520
	stdev	3.02408e-07
MEAN Q	mean	0.000312597

stdev	3.15221e-07
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5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.114897
	stdev	0.00160958
STDEV Q	mean	0.115008
	stdev	0.00164119



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days.
Data gap is relative to the missing data of Svalbard station.

6.1 - Unbiased Doppler Error

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

6.2 - Absolute Doppler

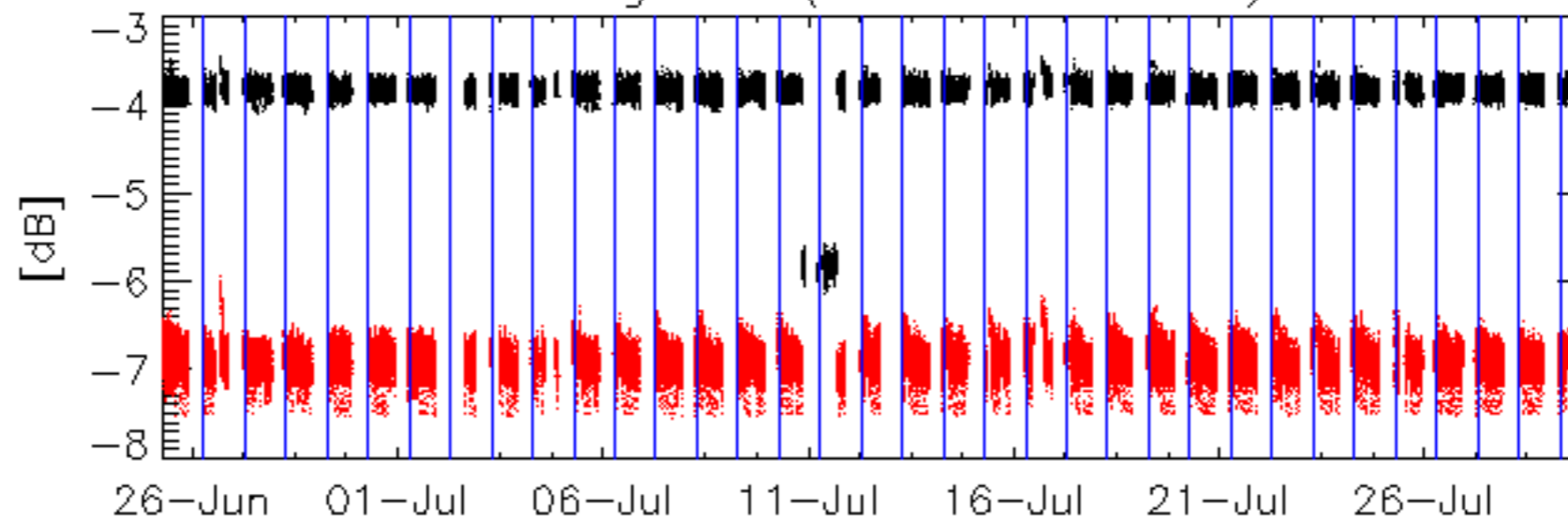
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

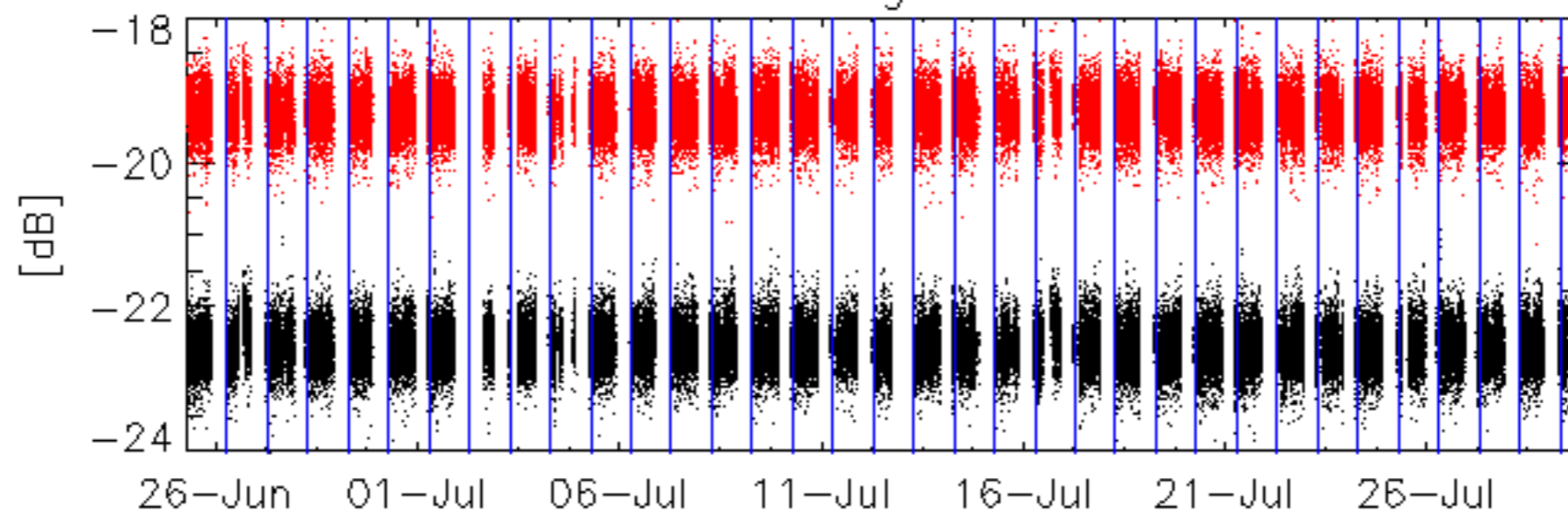
Evolution Doppler error versus ANX



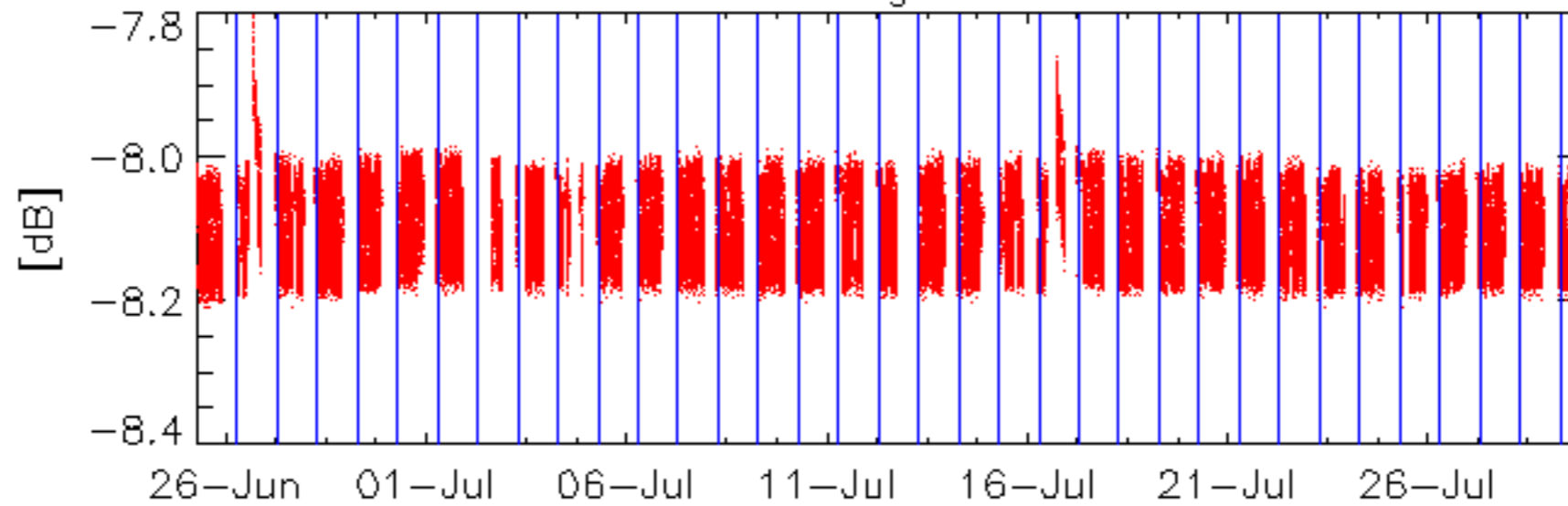
Average P1 (row 3 & row 10)



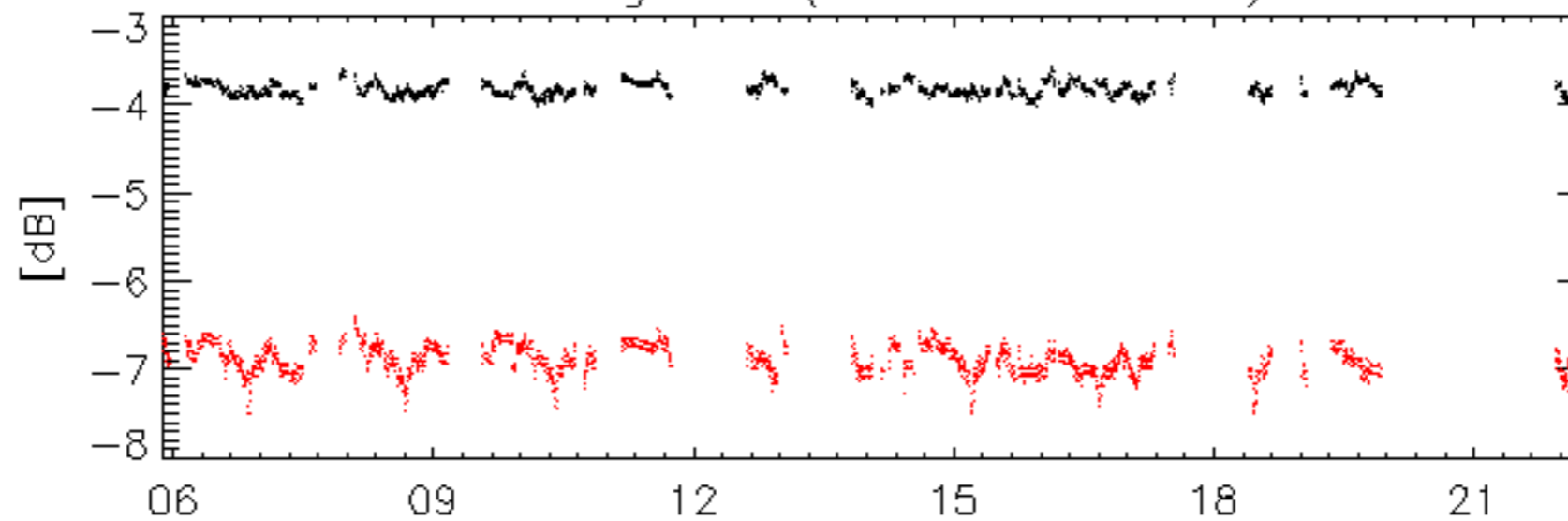
Average P2



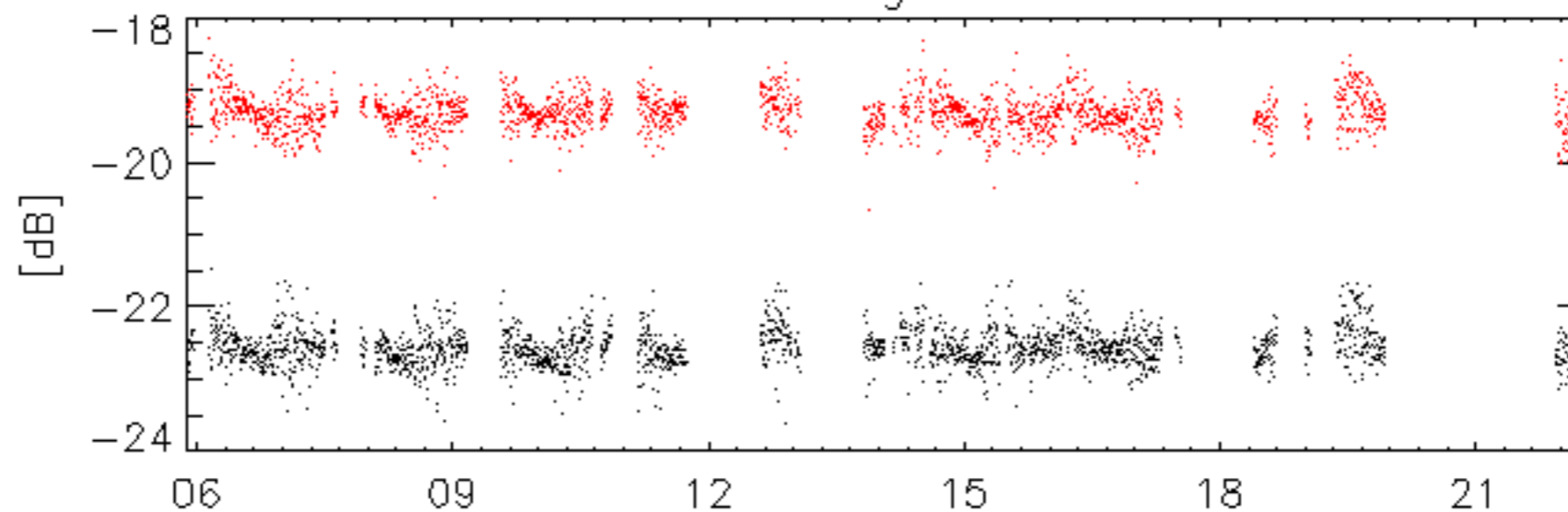
Average P3



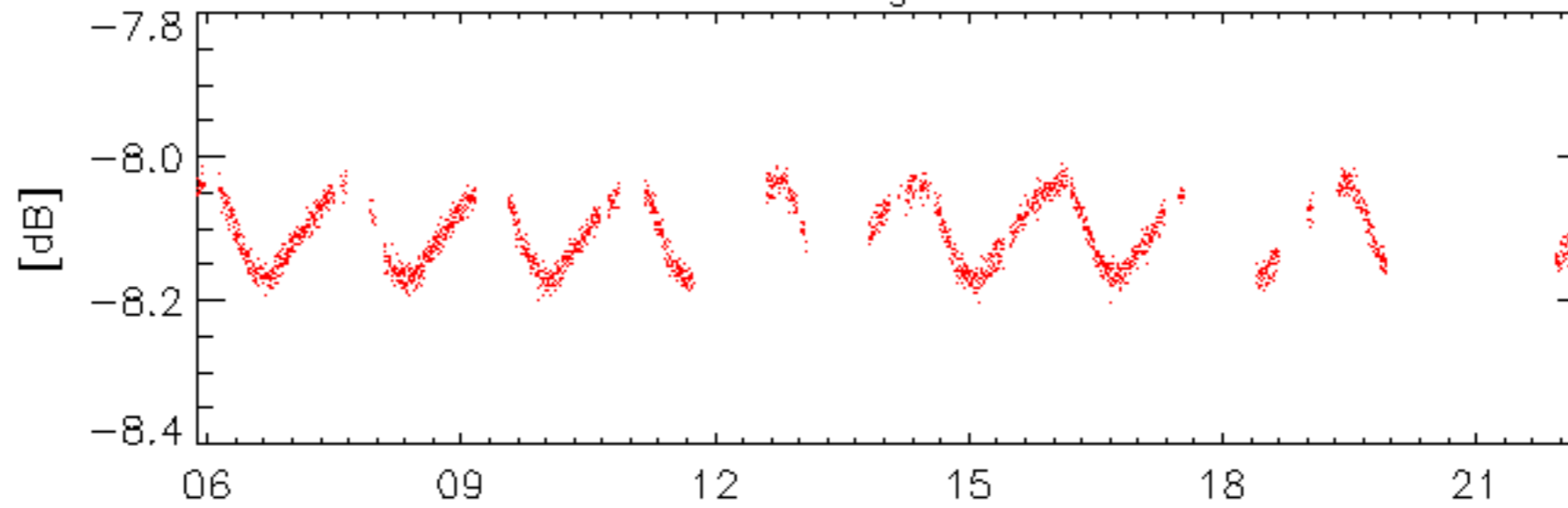
Average P1 (row 3 & row 10)



29-Jul
Average P2



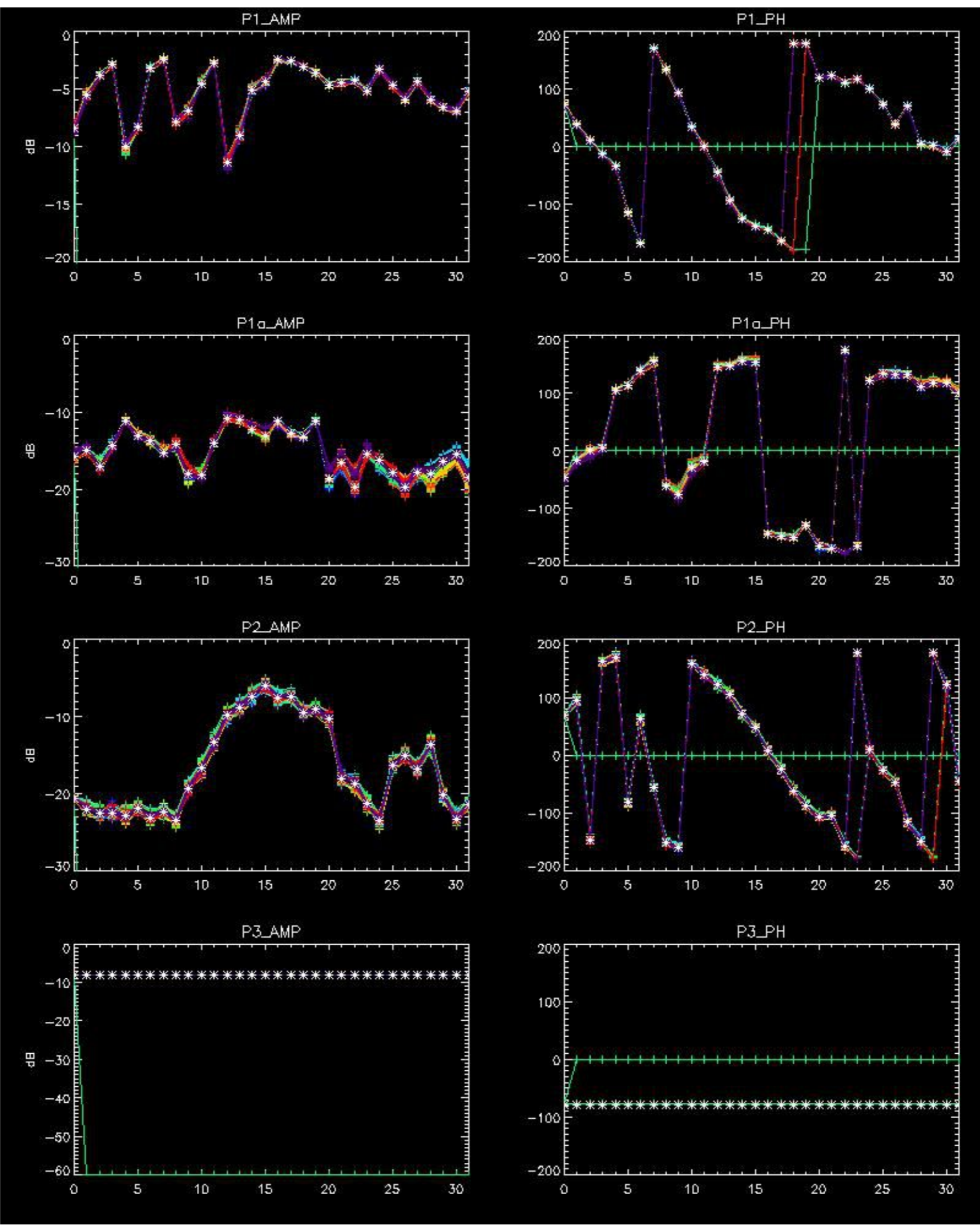
29-Jul
Average P3



29-Jul

No anomalies observed available browse products.

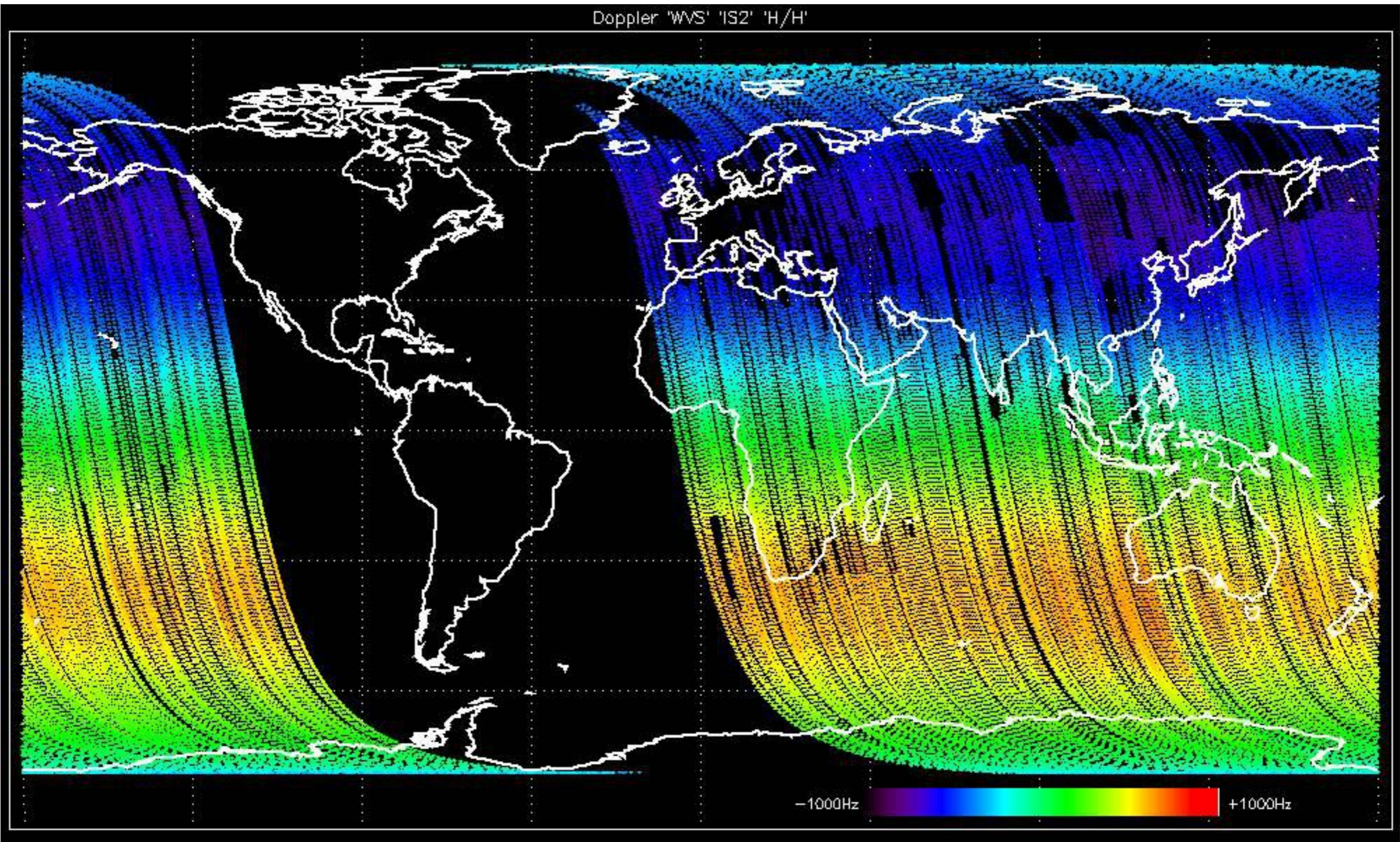
No anomalies observed. Nominal behaviour.
Stable statistics regarding the last 35 days.



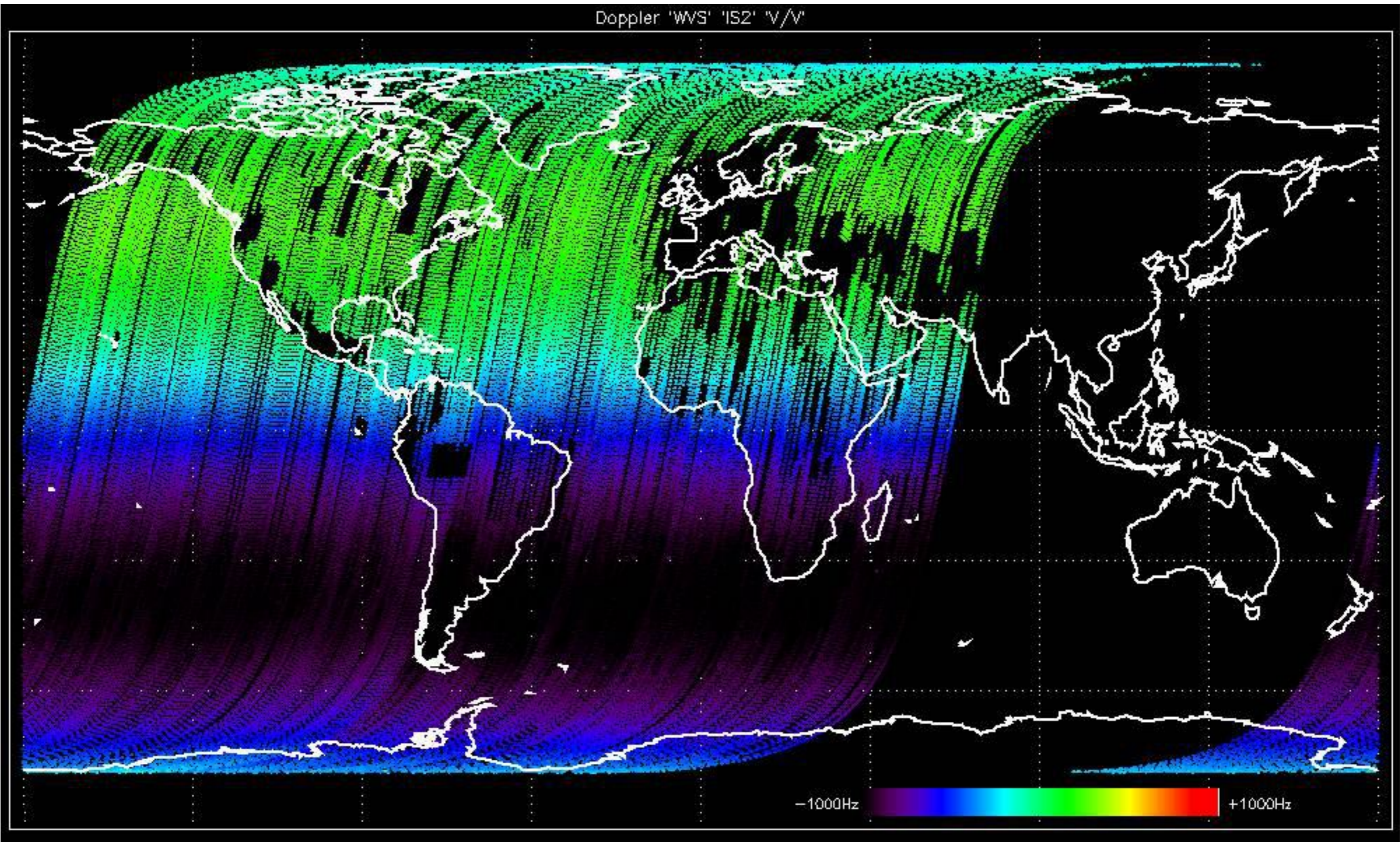
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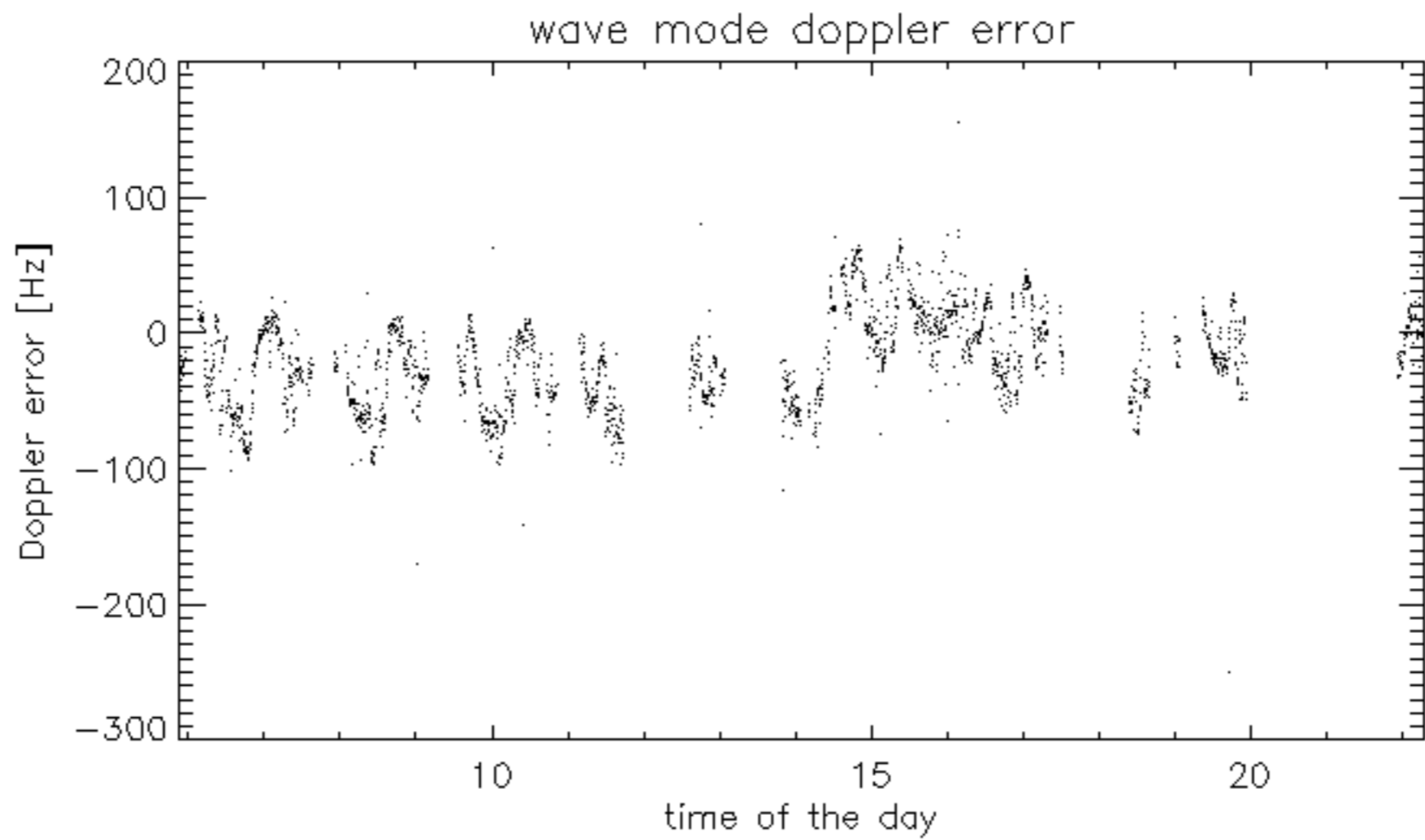
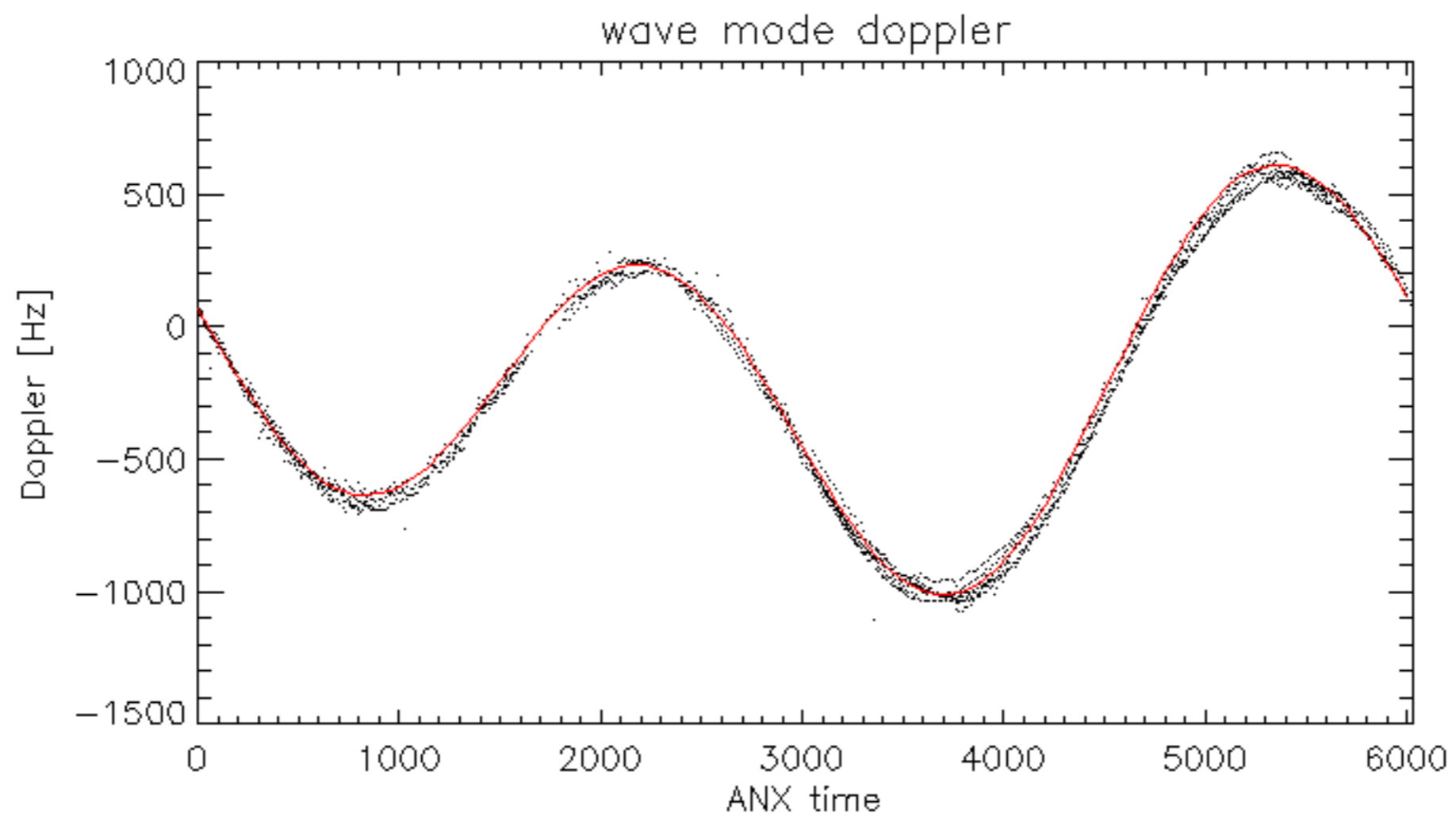
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Doppler 'WVS' 'IS2' 'H/H'

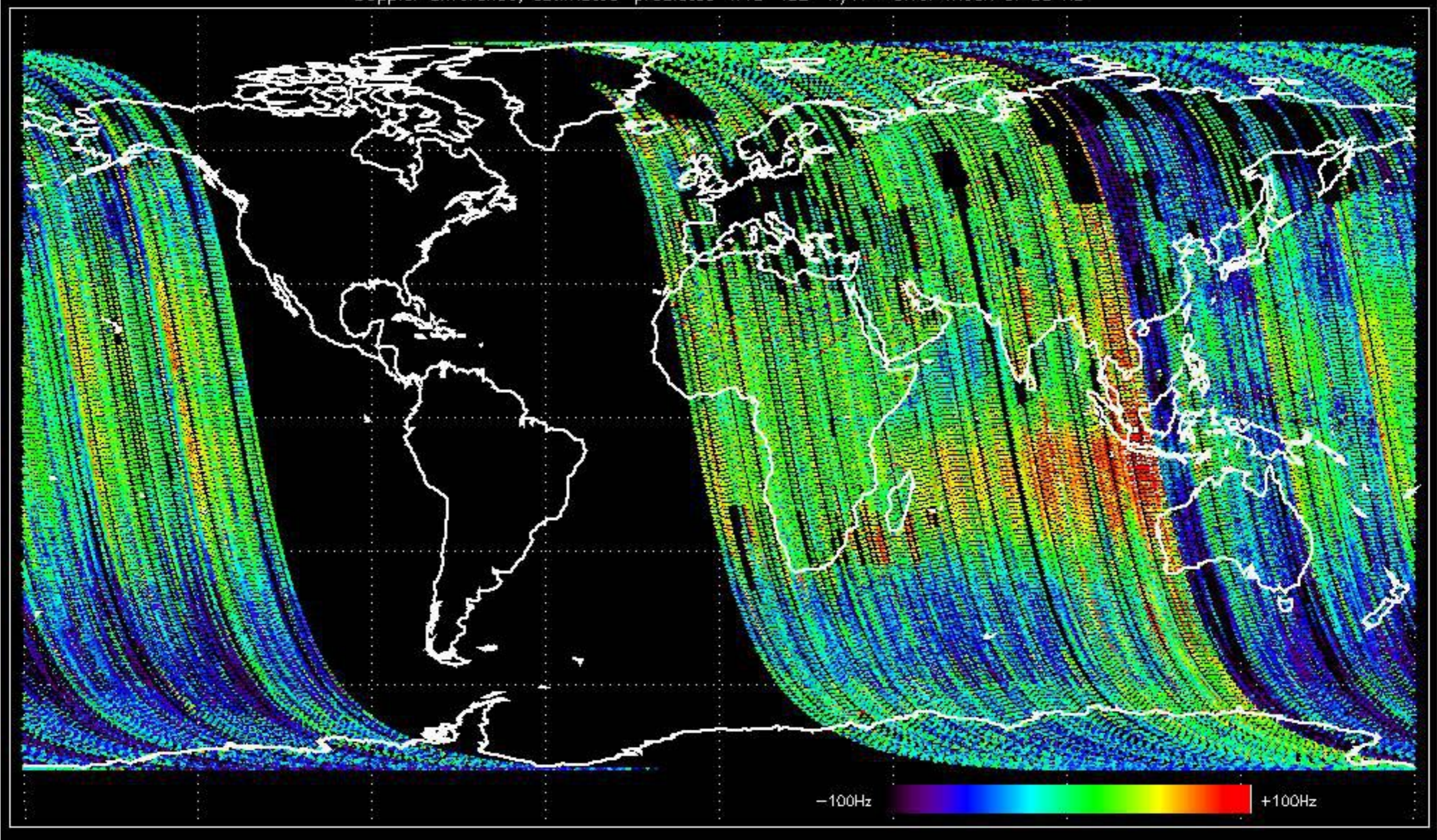


Doppler 'WVS' 'ISZ' 'V/V'

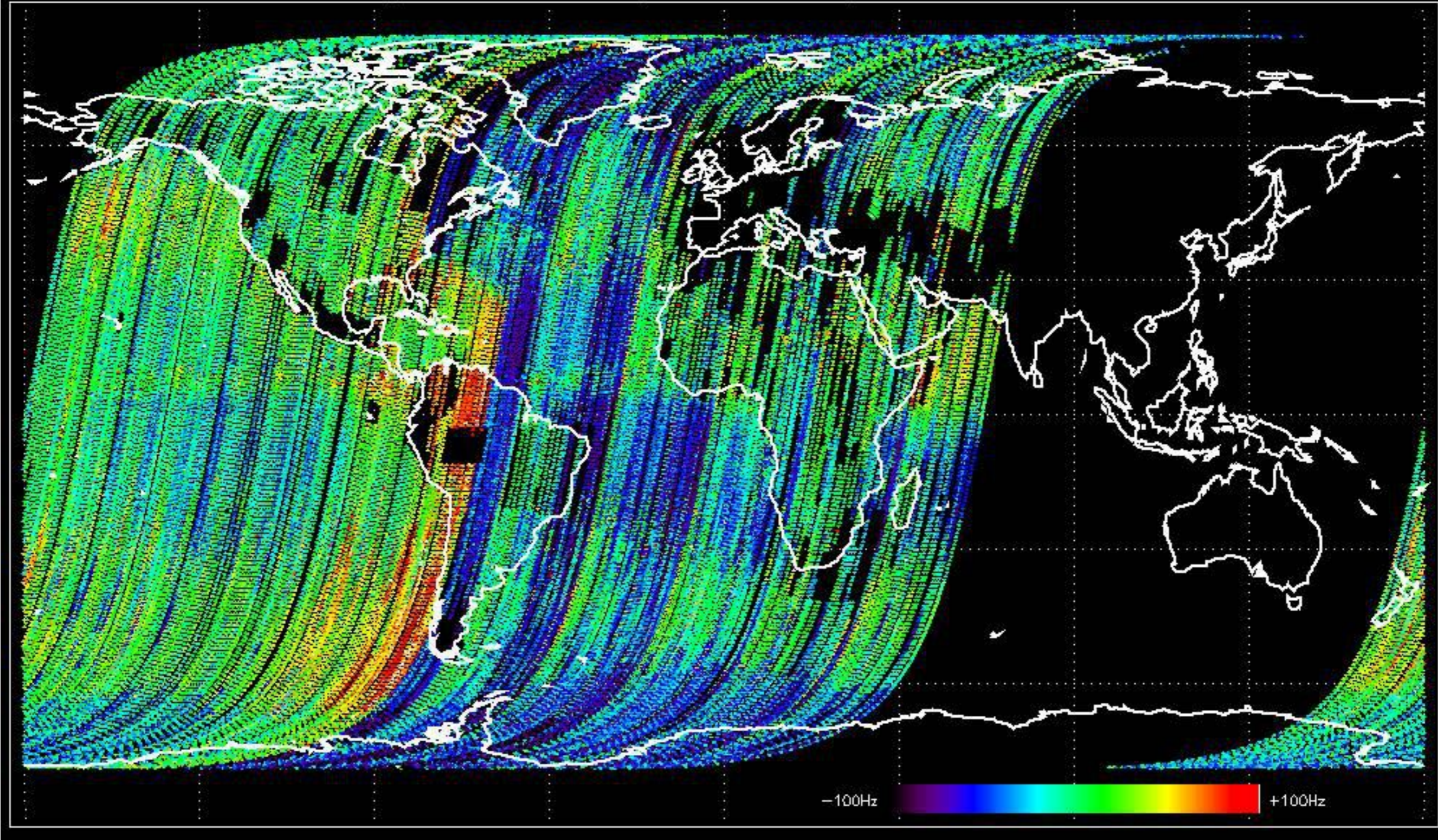




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



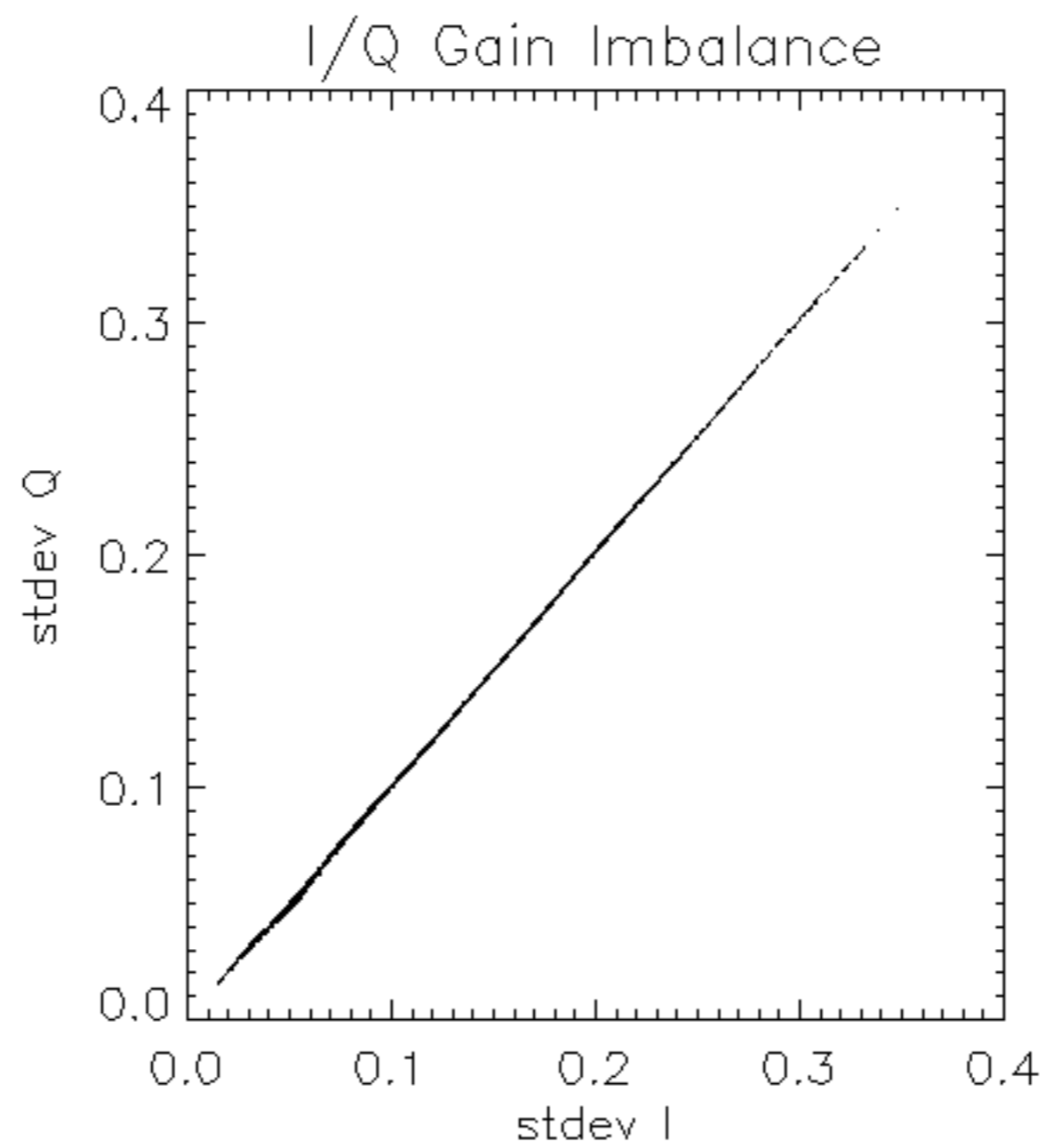
No anomalies observed on available MS product:

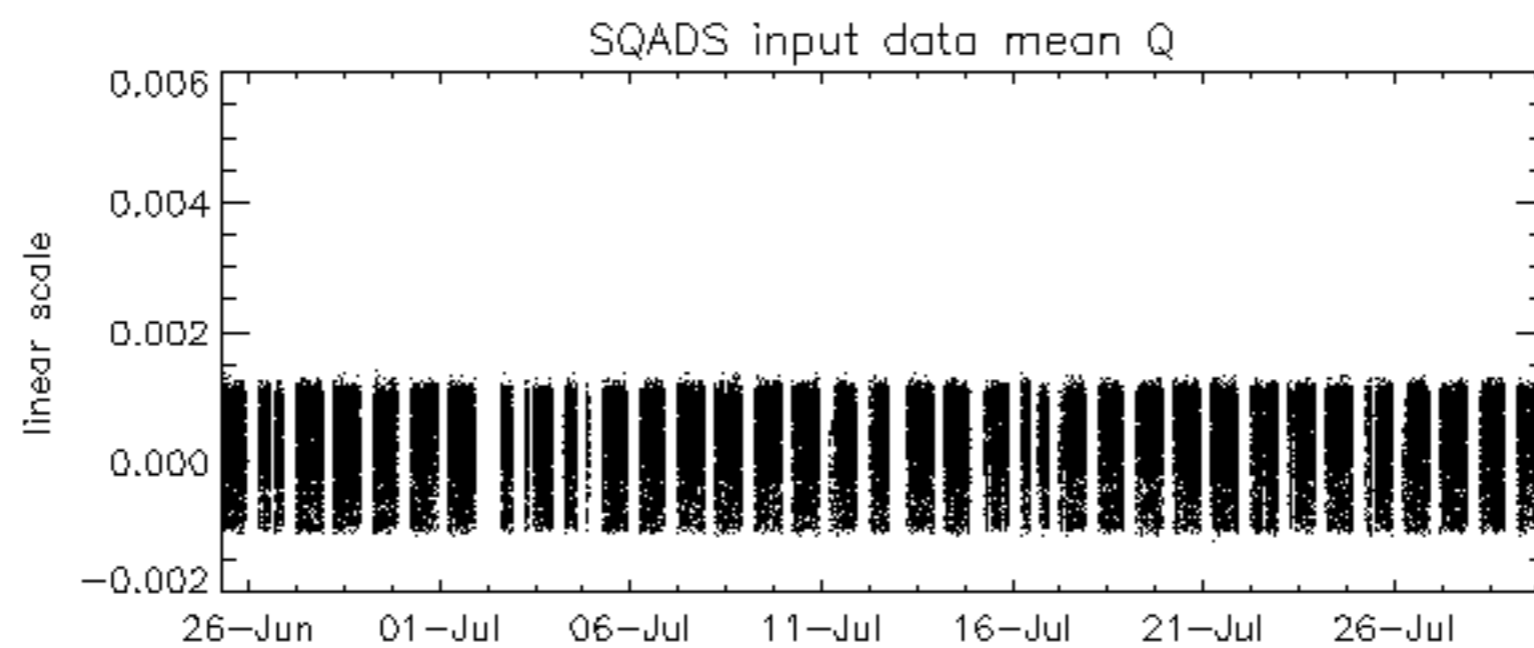
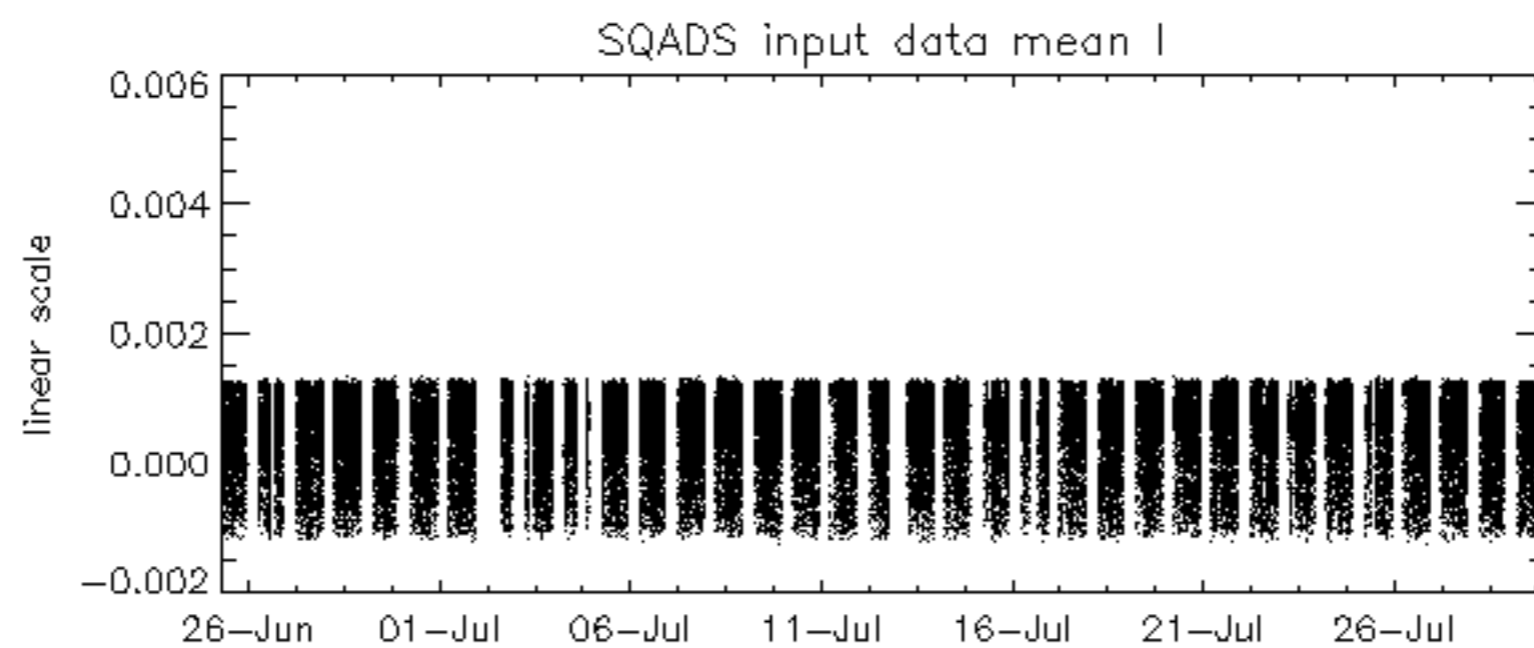
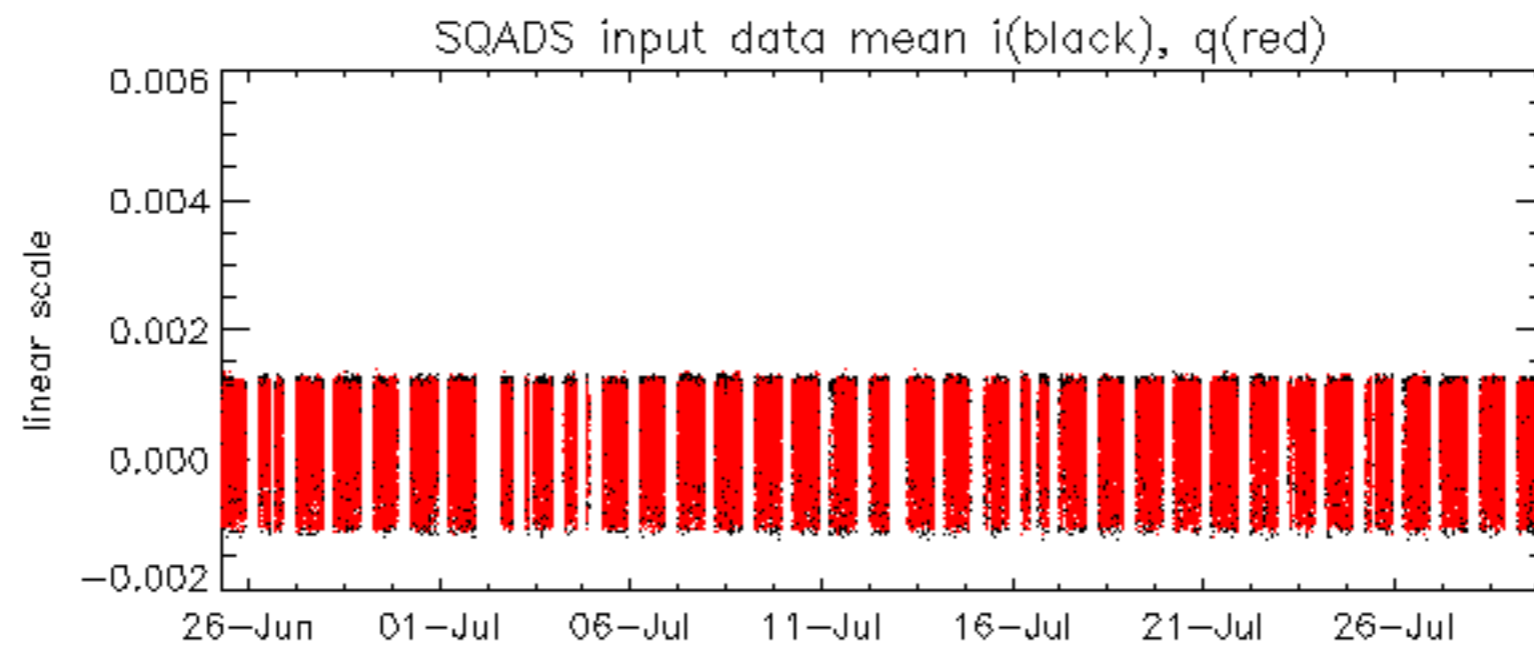
-ASA_MS__0PNPDK20030729_201847_000000152018_00314_07382_0048.N1

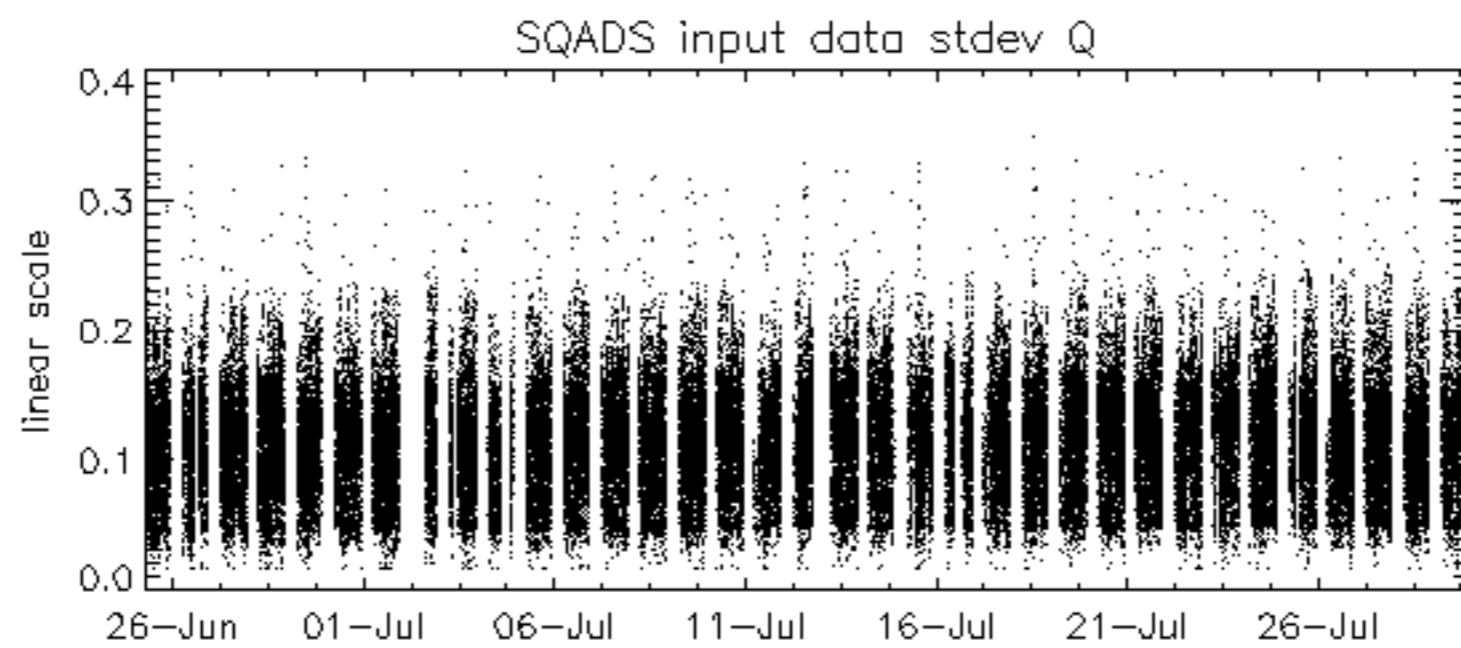
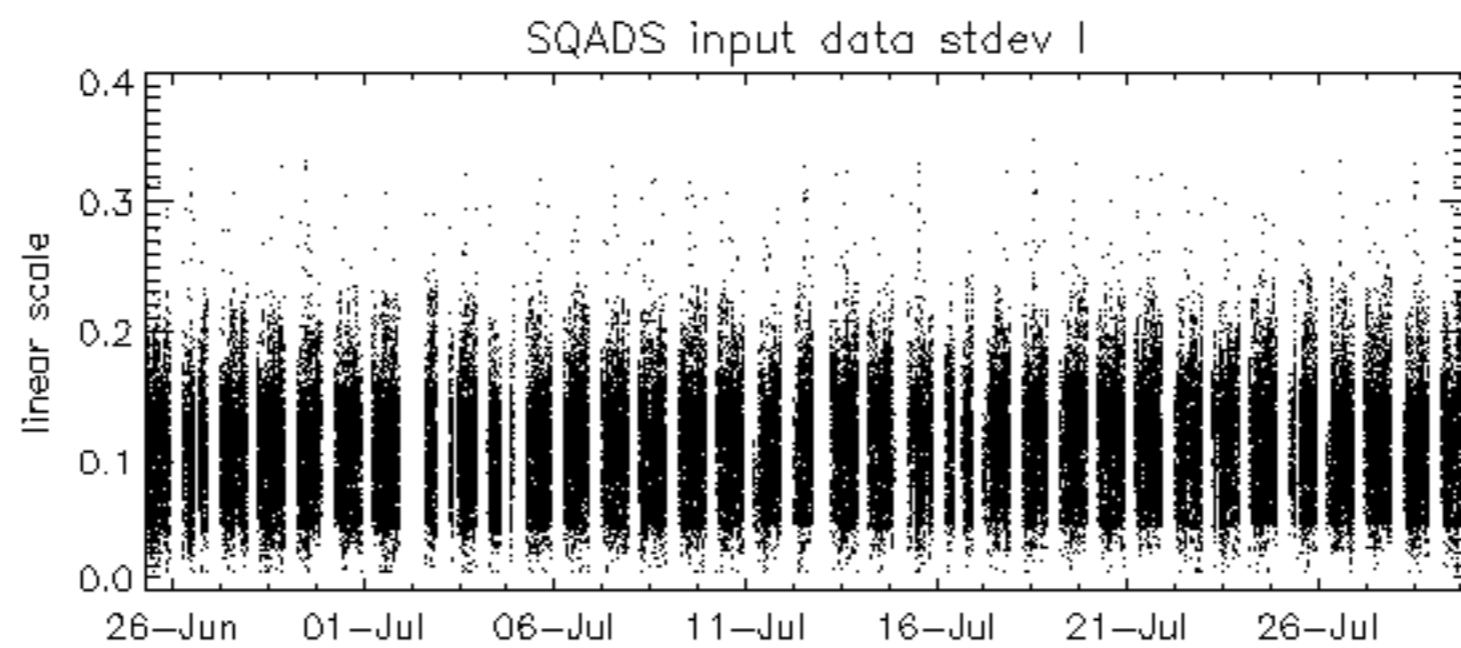
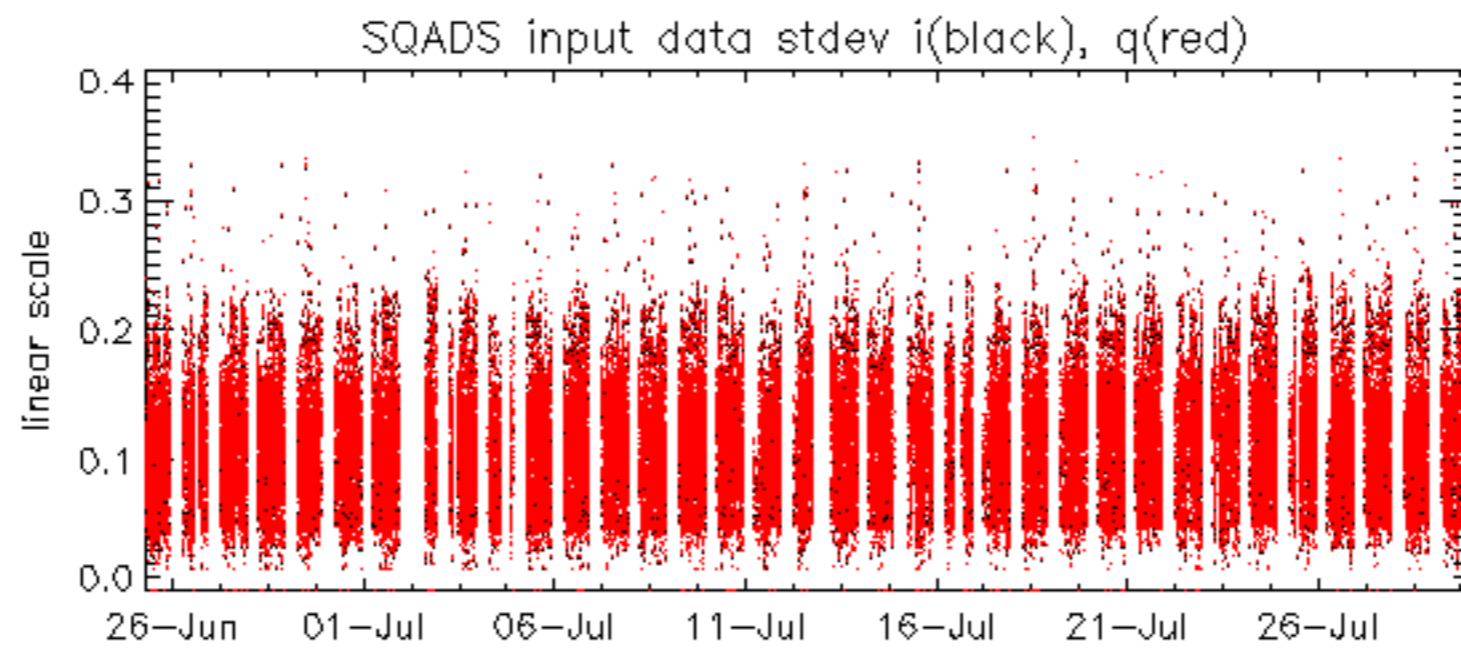
-ASA_MS__0PNPDK20030729_202027_000000152018_00314_07382_0047.N1

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