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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

Two MS products available for analysis on 26-August-2003 (H and V polarisation):

- ASA_MS__0PNPDK20030826_203857_000000152019_00214_07783_0025.N1
- ASA_MS__0PNPDK20030826_204037_000000152019_00214_07783_0026.N1

No anomalies observed.



Polarisation	Start Time
V	20030826 204037
H	20030826 203857

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	-3.80293	-22.5302	-8.10765
	stdev	0.00468885	0.0622791	0.00207588
10	mean	-6.91787	-19.3412	-8.10765
	stdev	0.0219727	0.0623024	0.00207588



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.81264	-22.5475	-8.10671
	stdev	0.00562134	0.0618932	0.00230914
10	mean	-6.89733	-19.3300	-8.10671
	stdev	0.0247768	0.0605407	0.00230914



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	0.000446045
	stdev	3.16336e-07
MEAN Q	mean	0.000291212

stdev	3.27072e-07
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5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.114717
	stdev	0.00154053
STDEV Q	mean	0.114885
	stdev	0.00156492



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed in 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

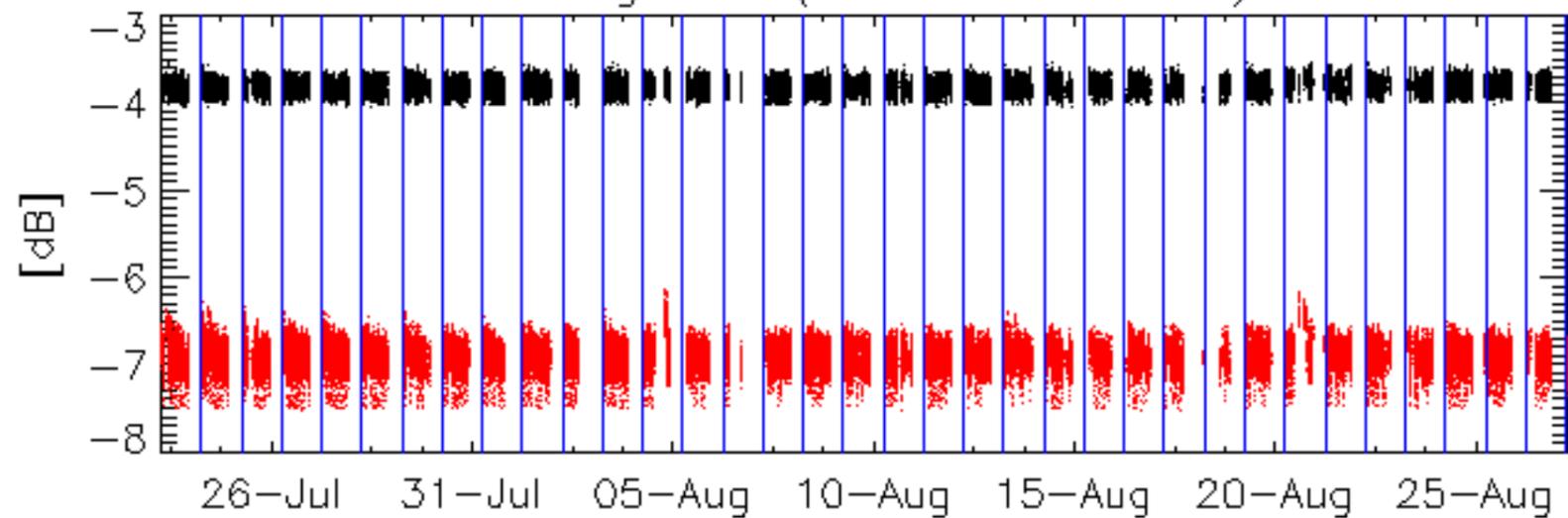
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

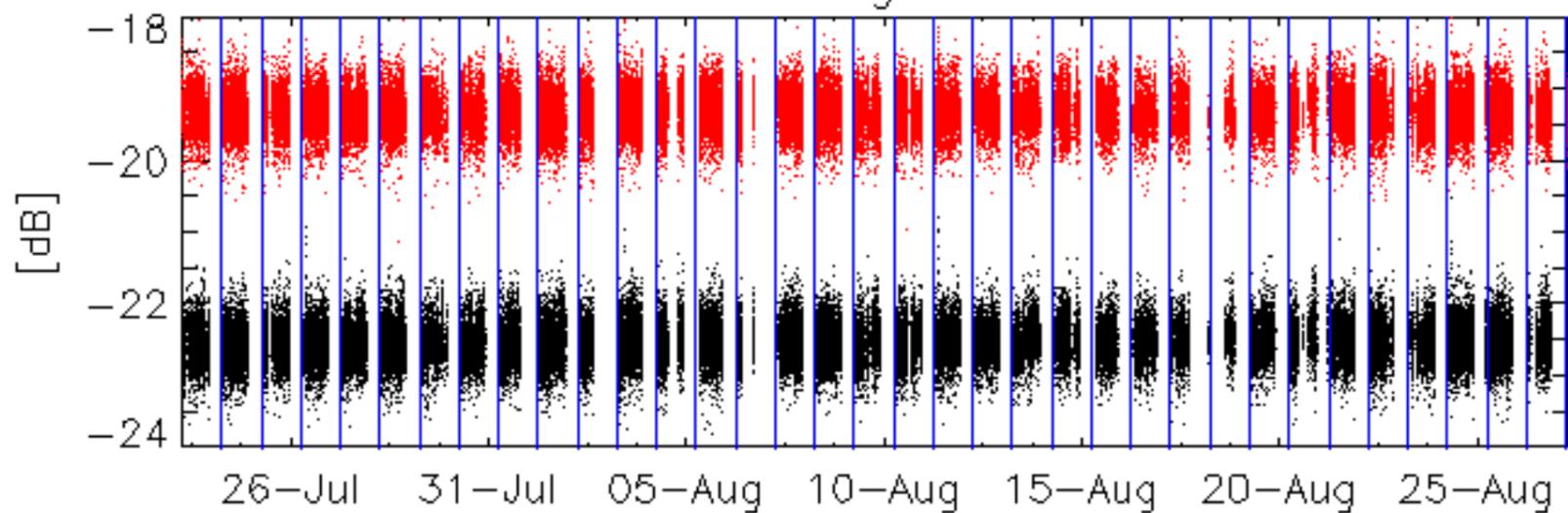
Evolution Doppler error versus ANX



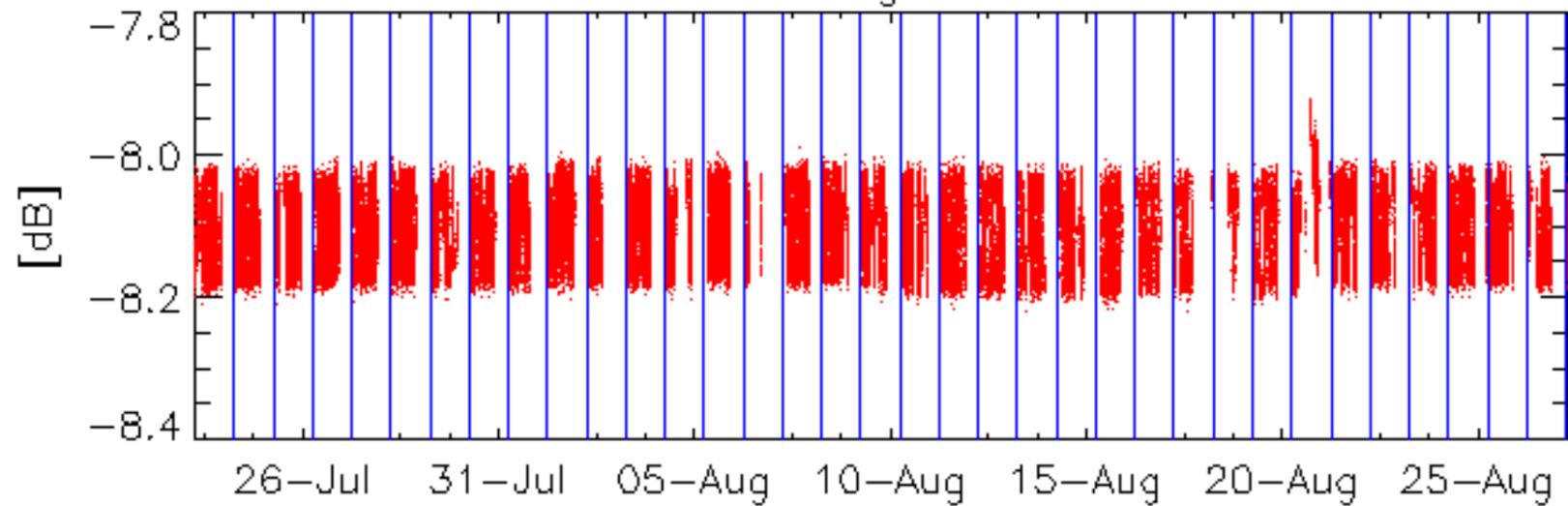
Average P1 (row 3 & row 10)

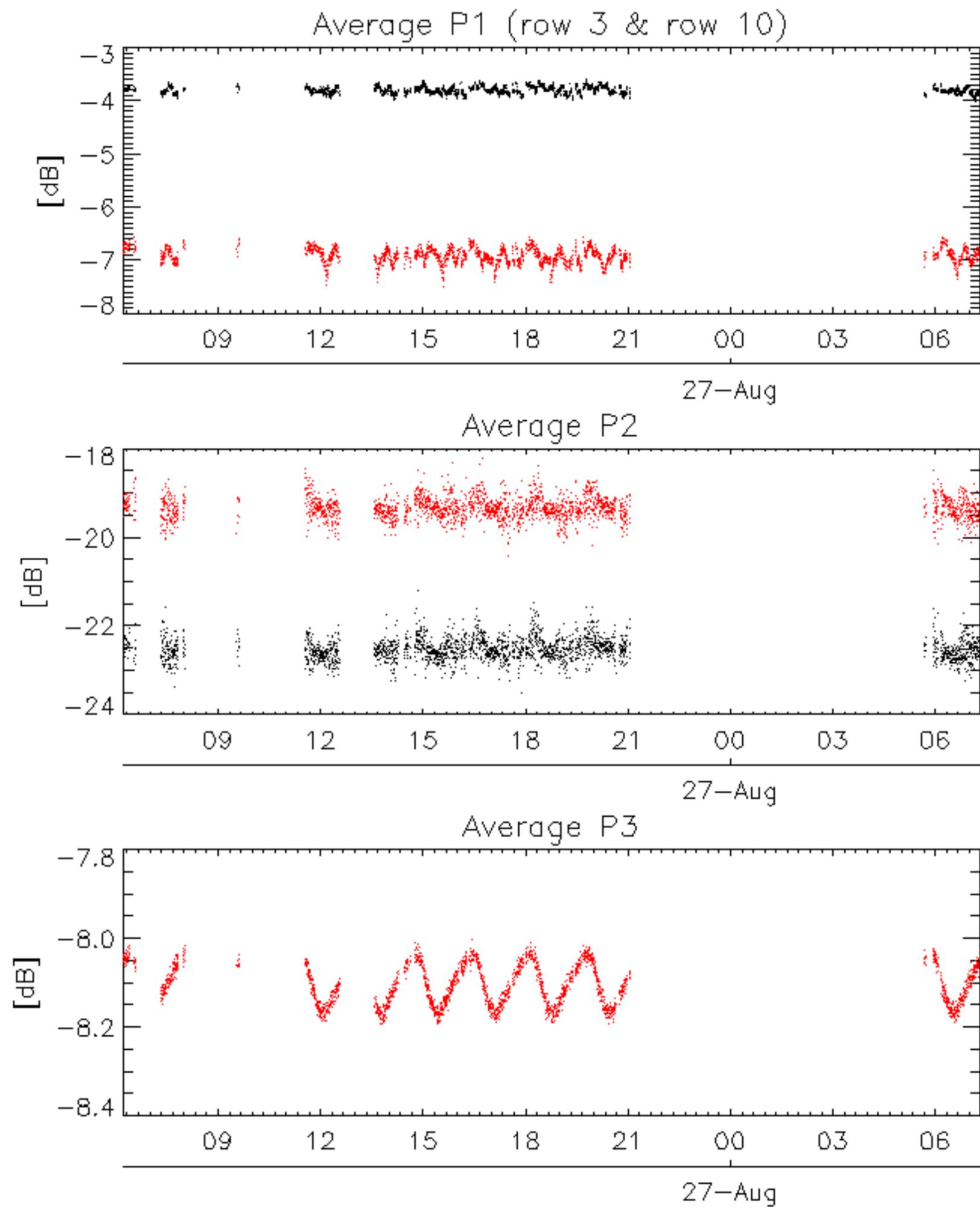


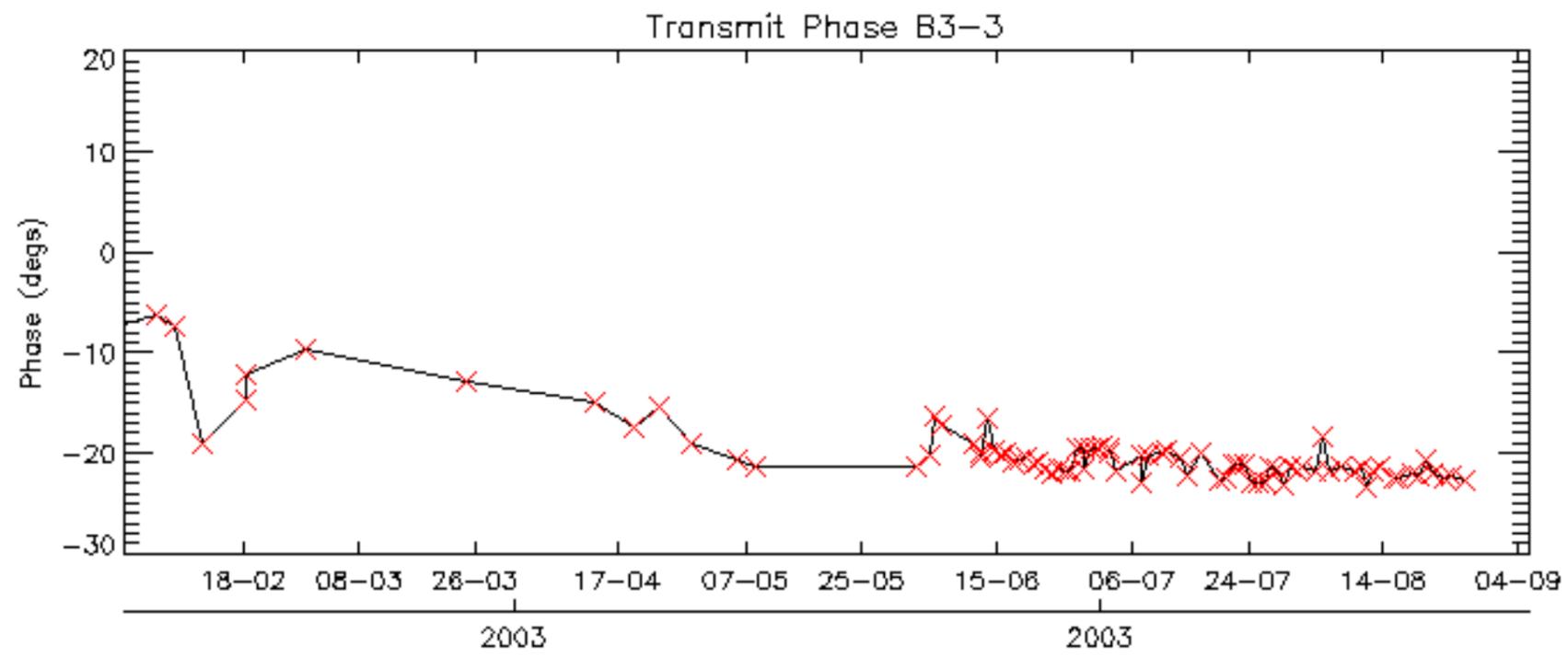
Average P2



Average P3

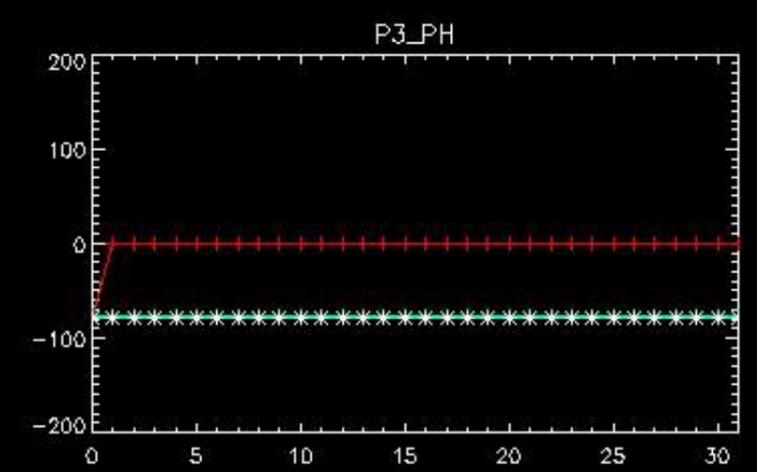
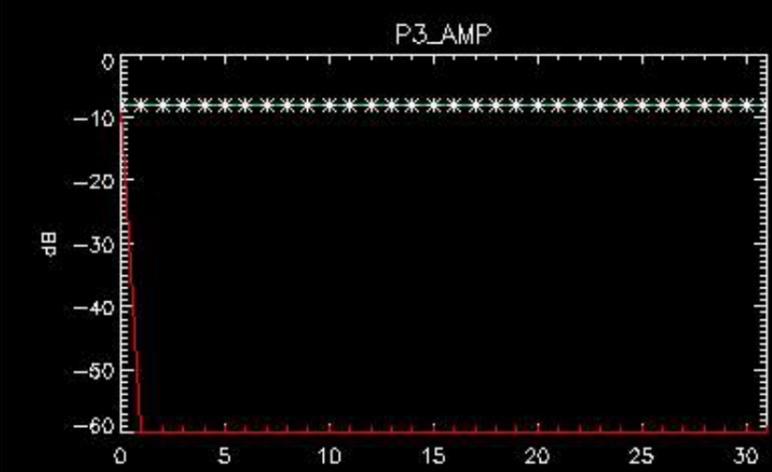
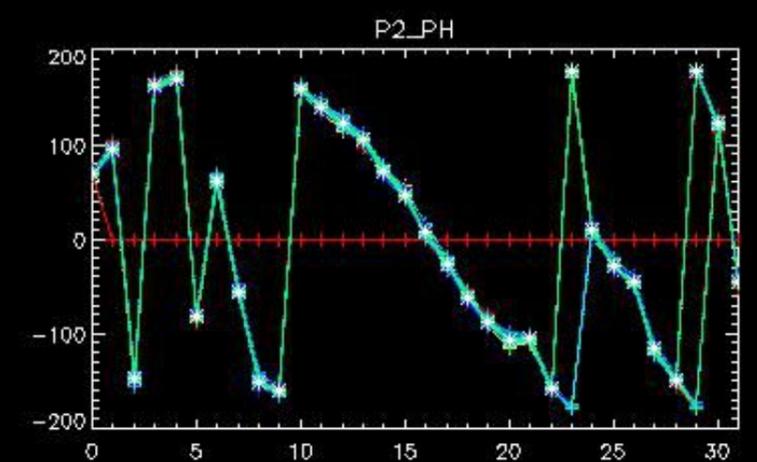
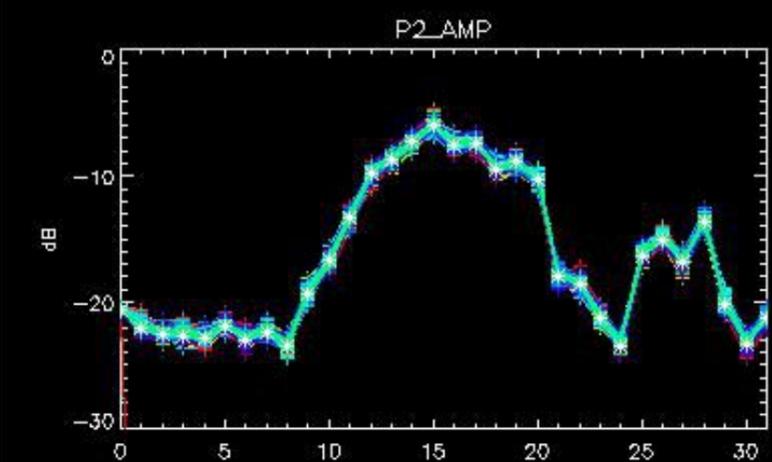
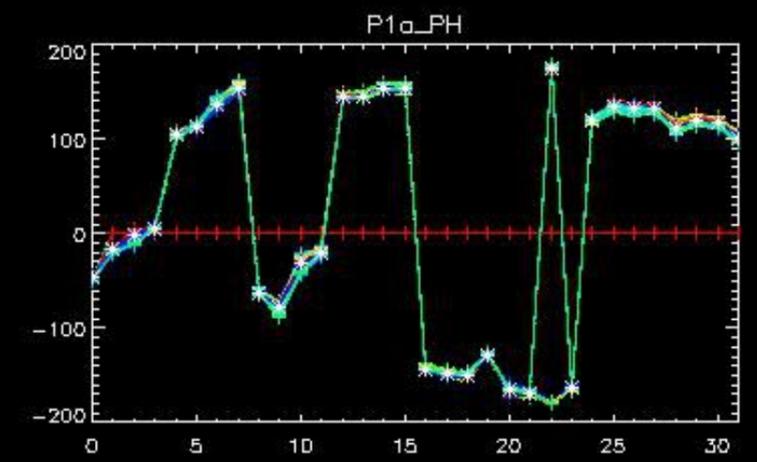
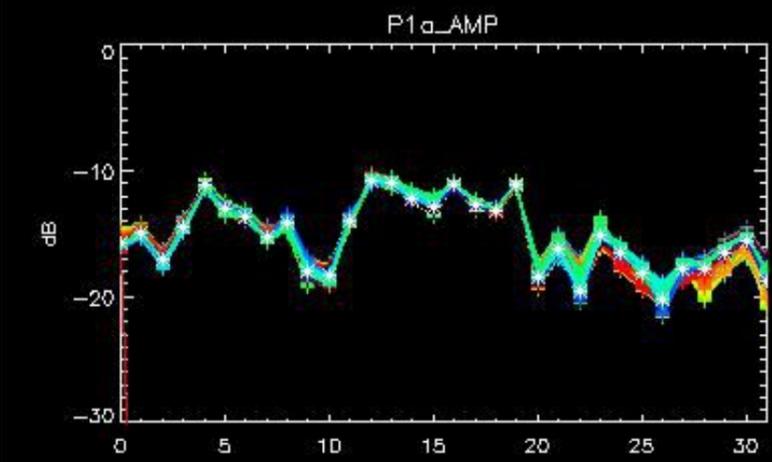
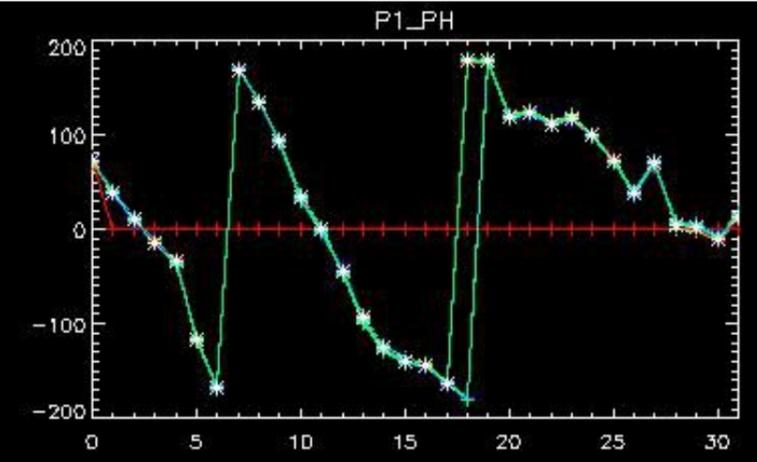
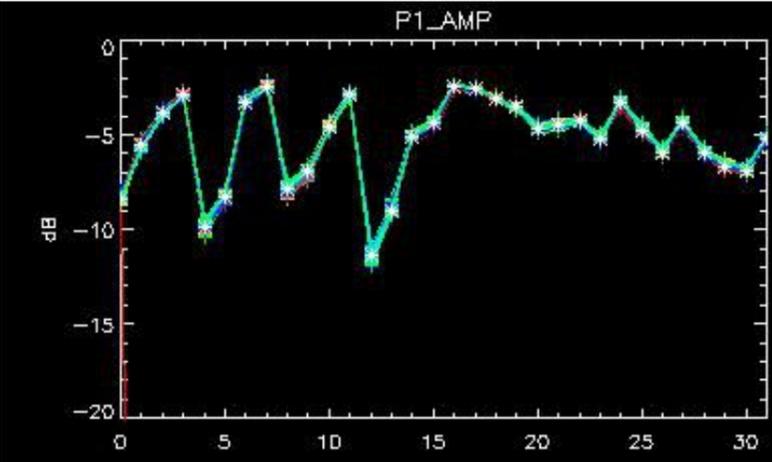






No anomalies observed on available browse products

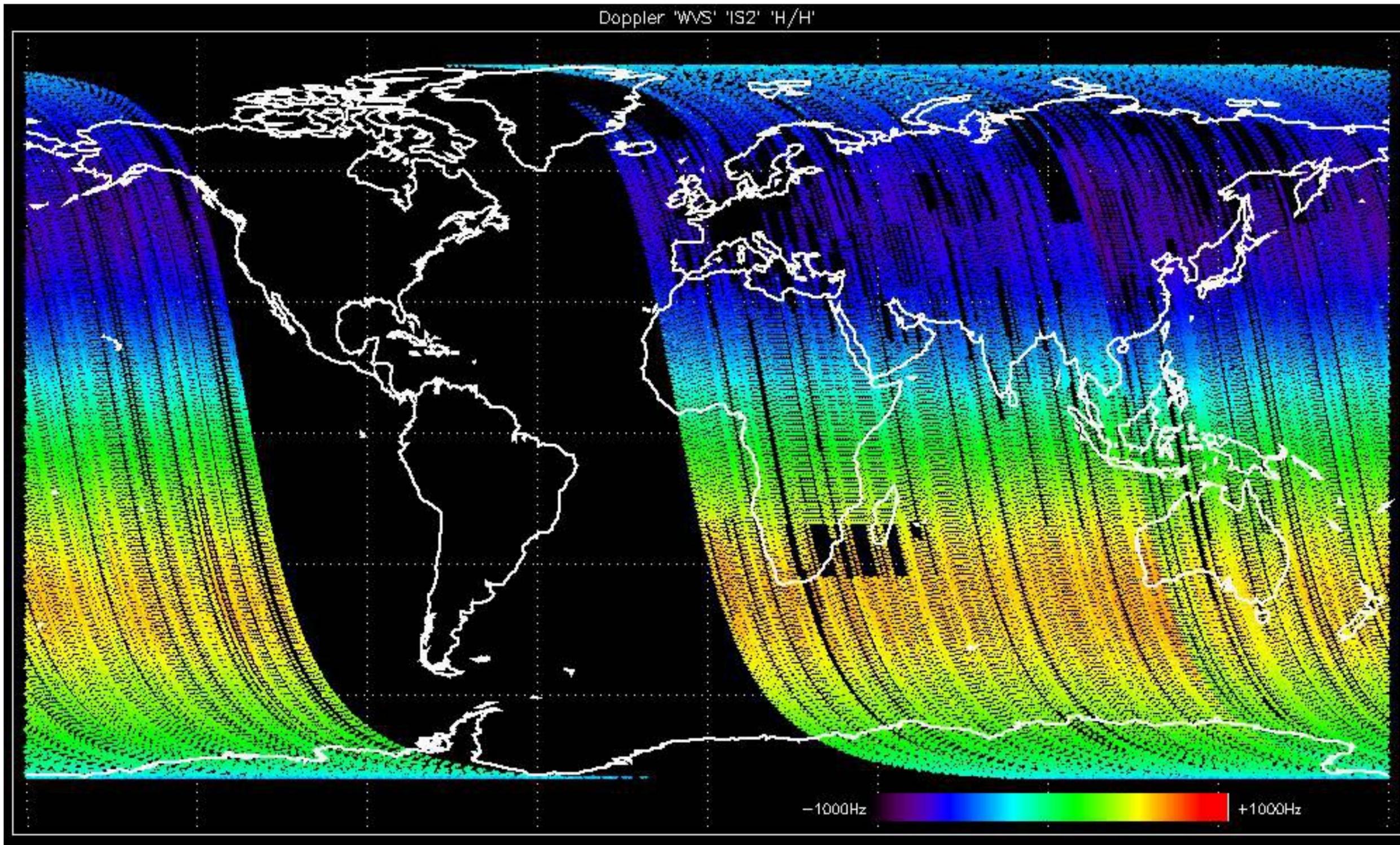
No anomalies observed.



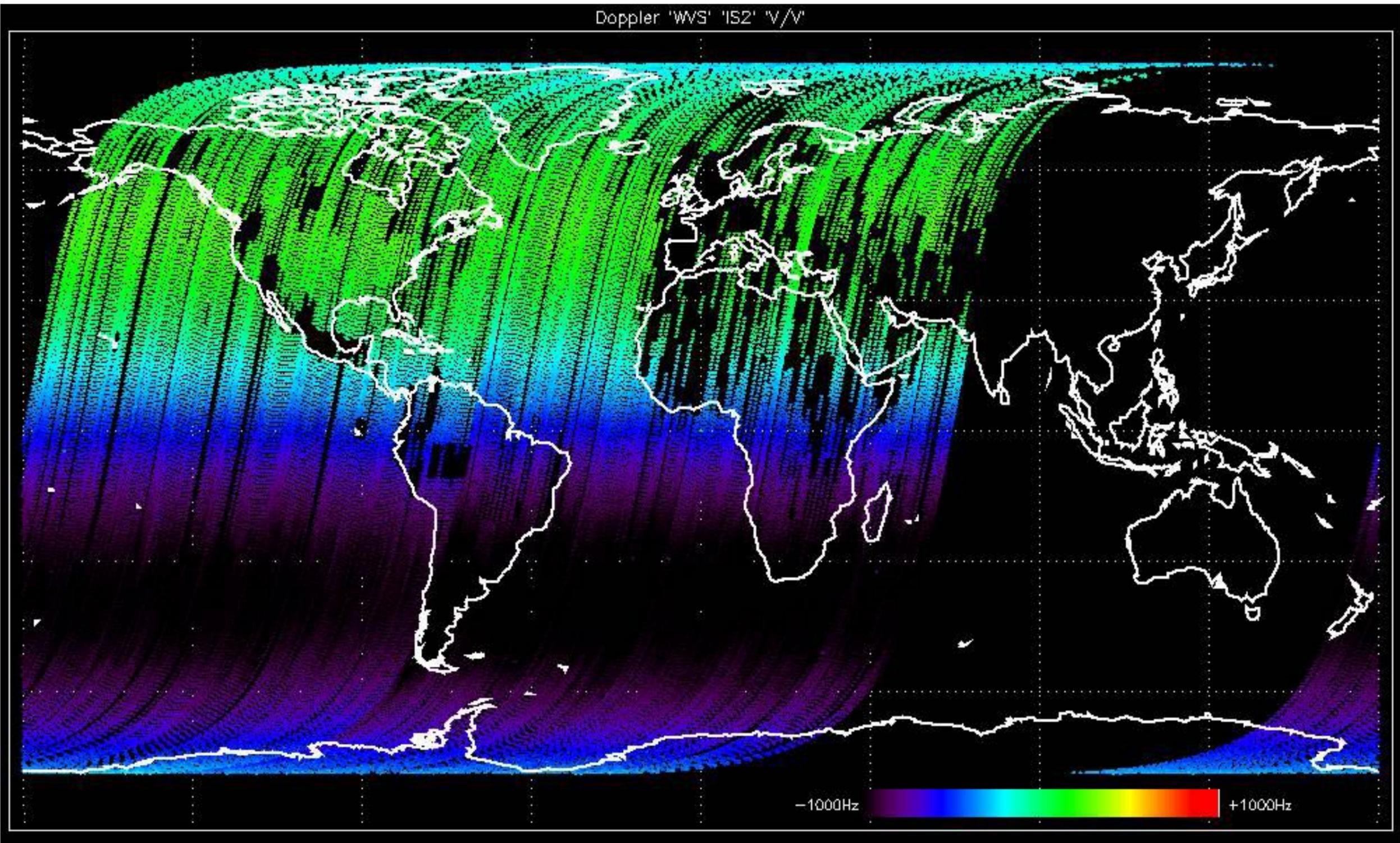
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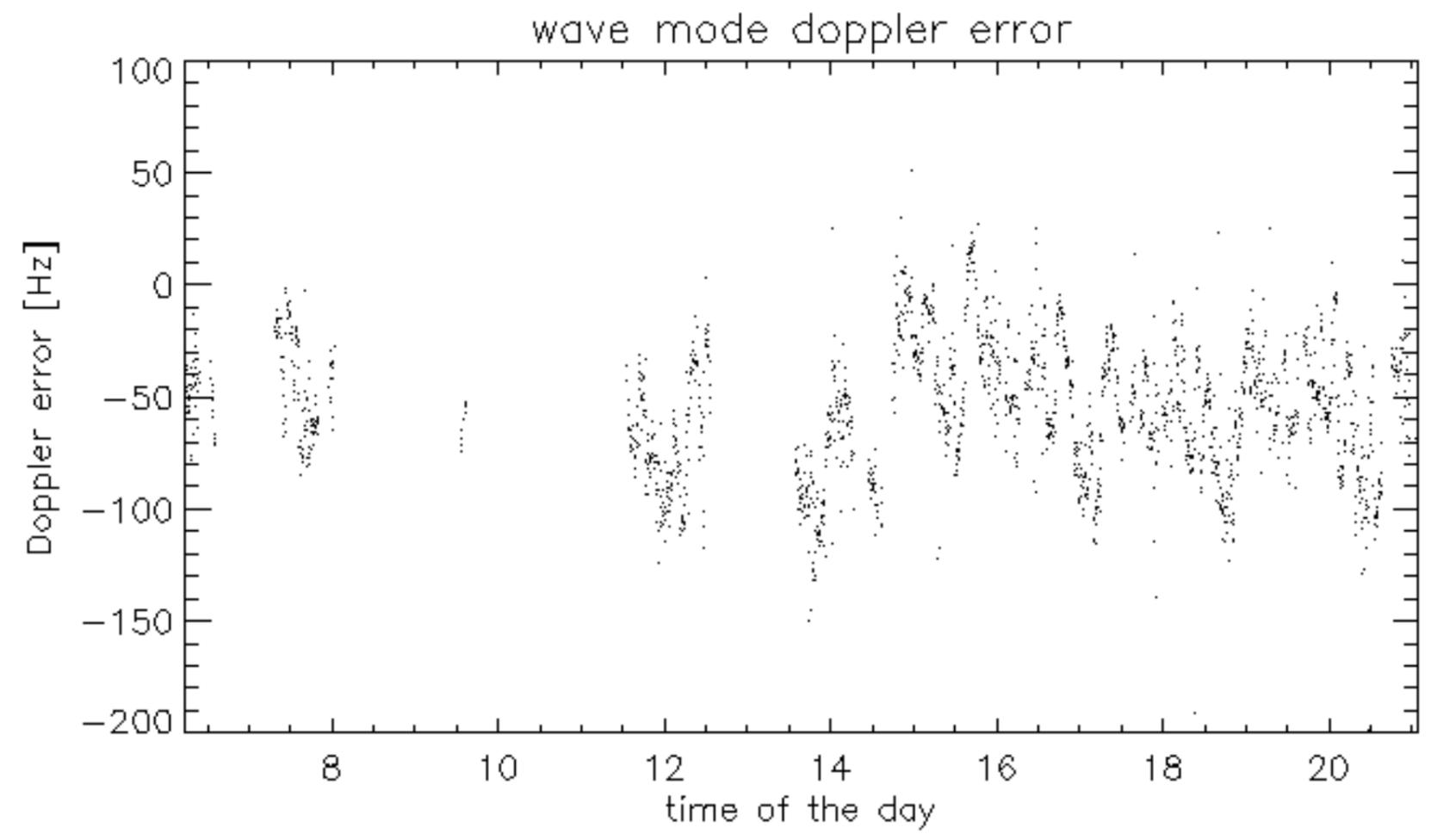
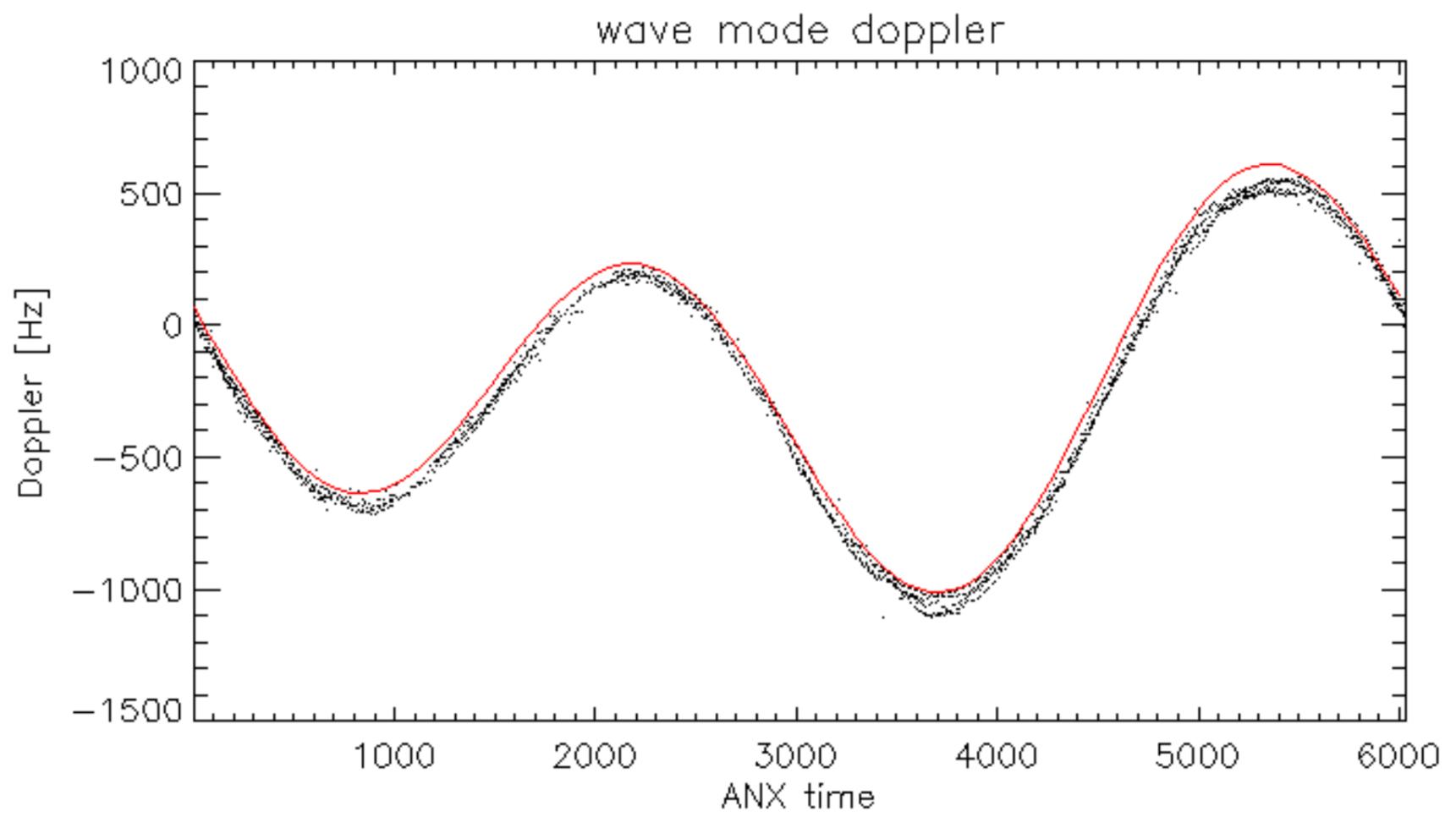
No anomalies observed in Doppler evolution.
Doppler analysis performed over the last 60 days.

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

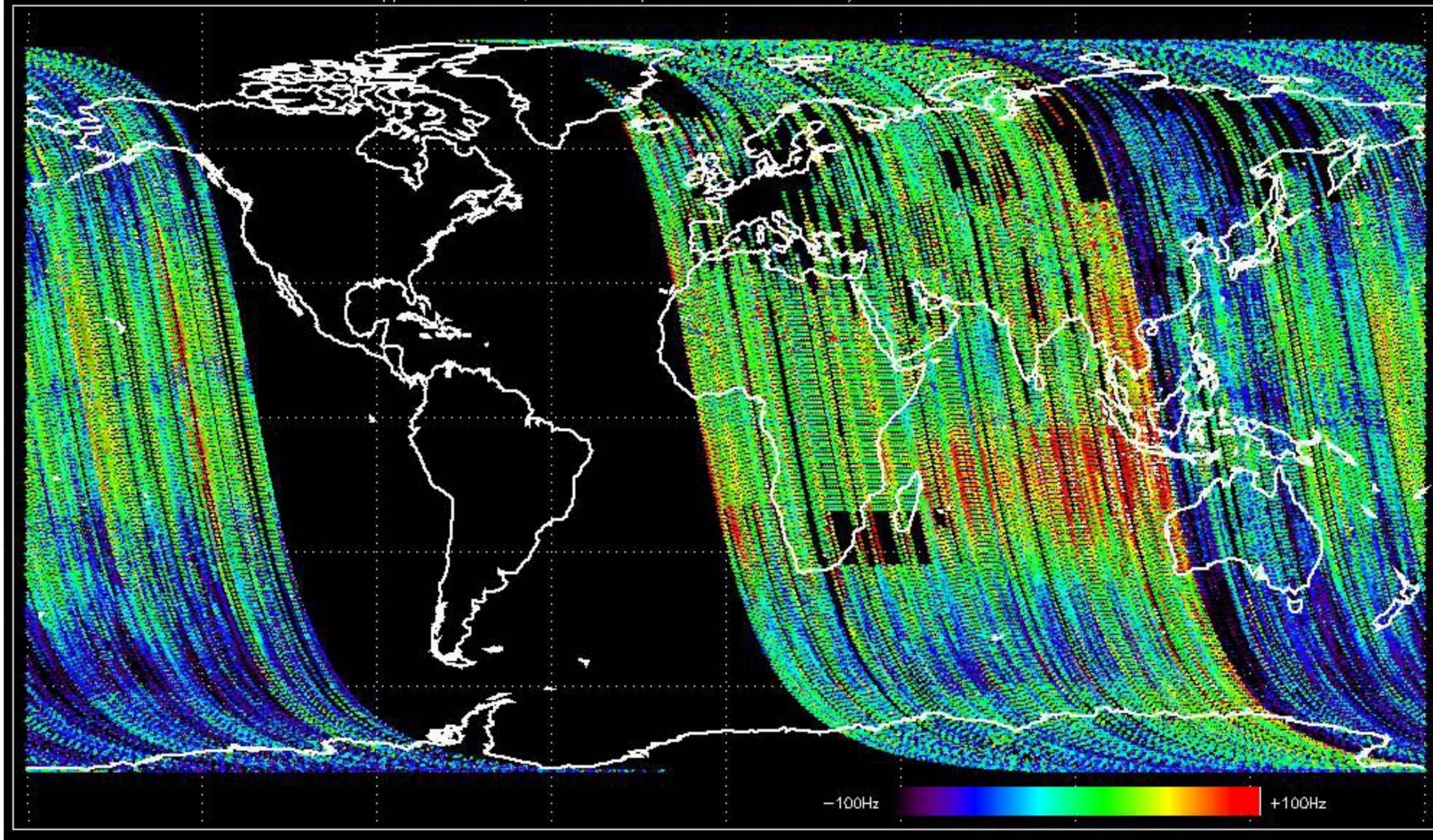


Doppler 'WVS' 'IS2' 'V/V'

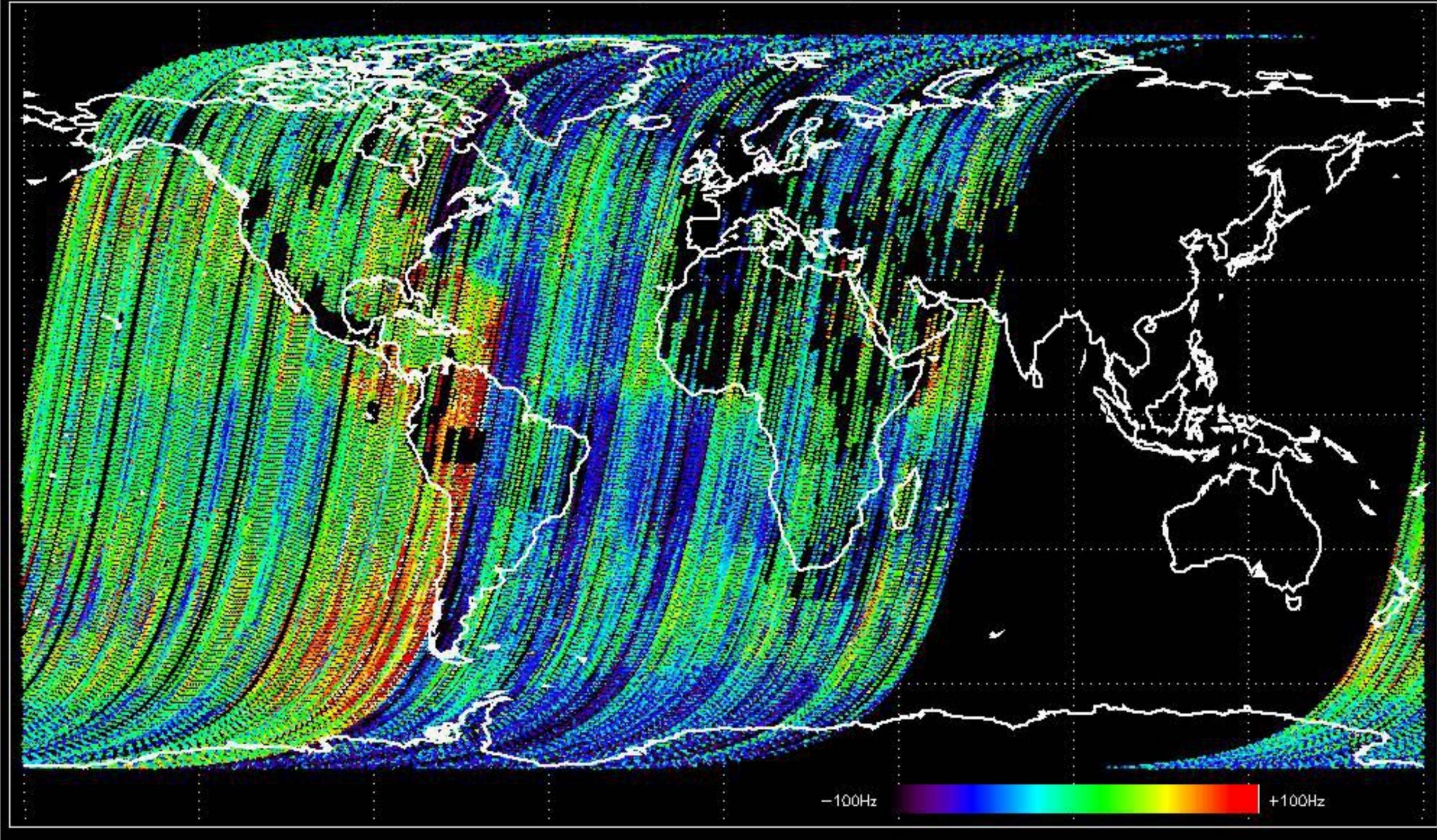




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



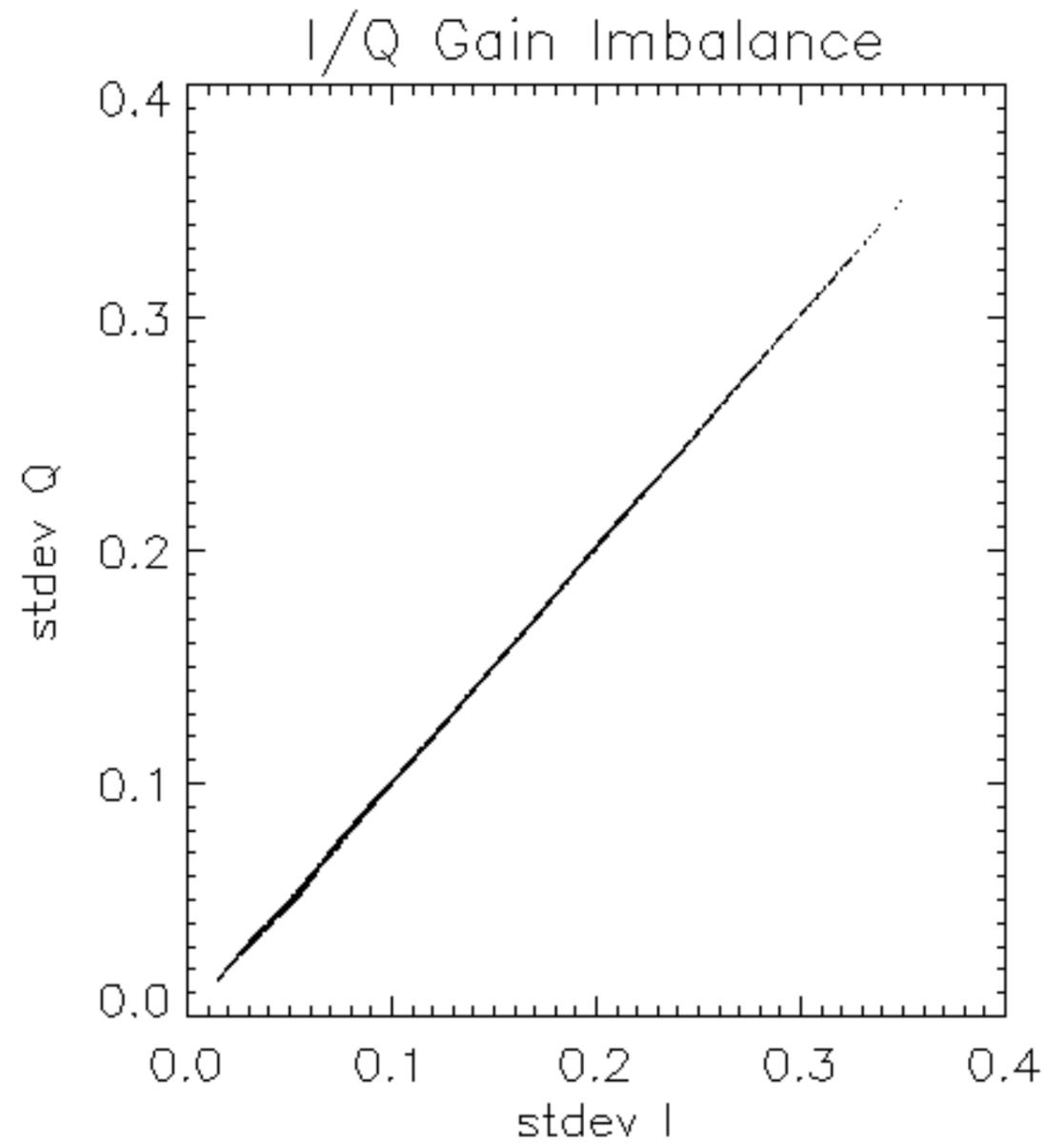
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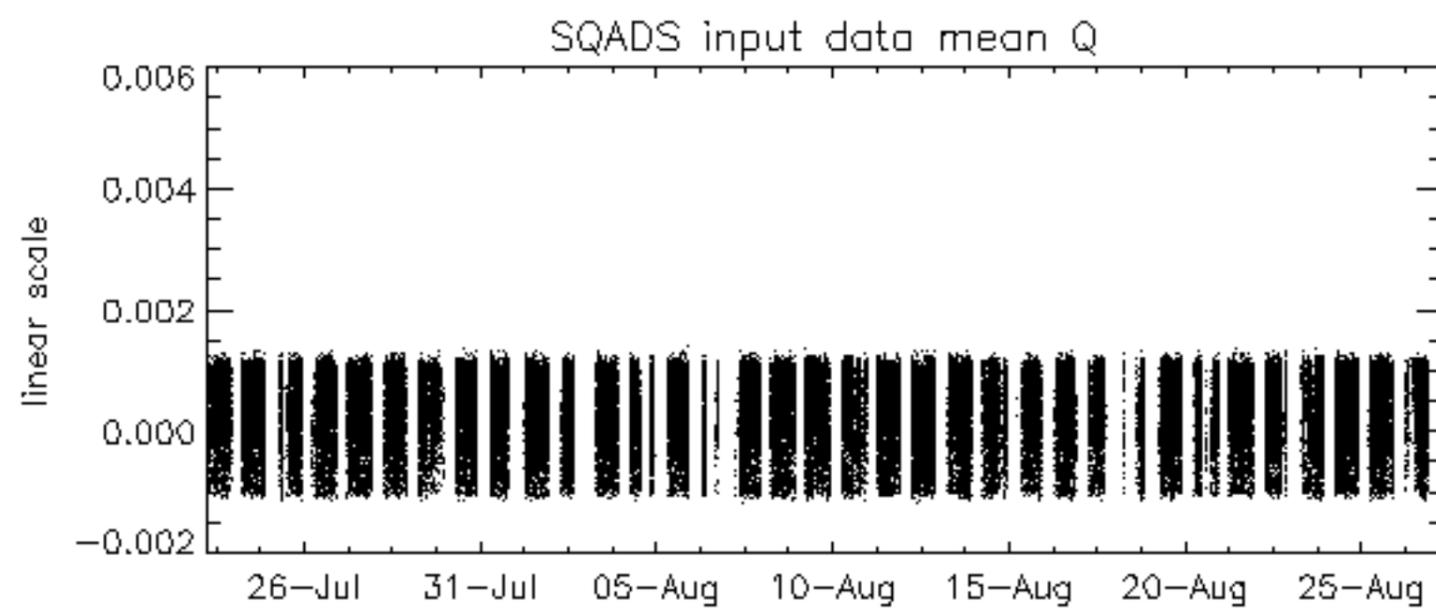
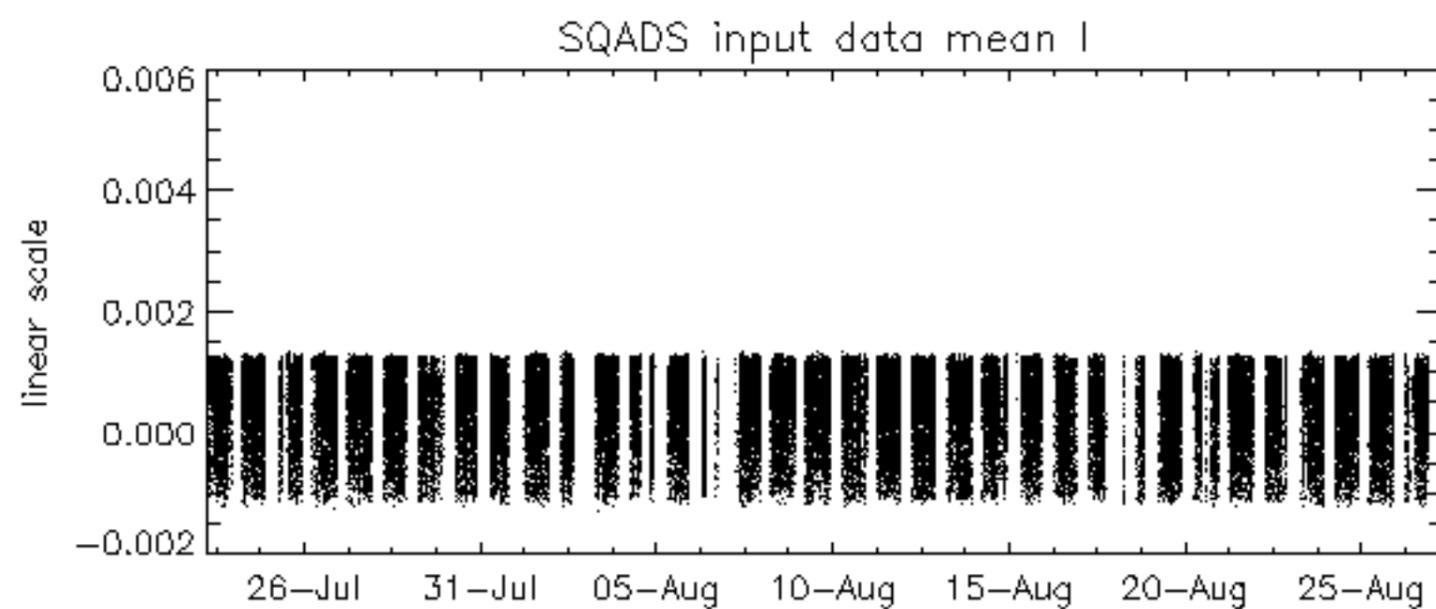
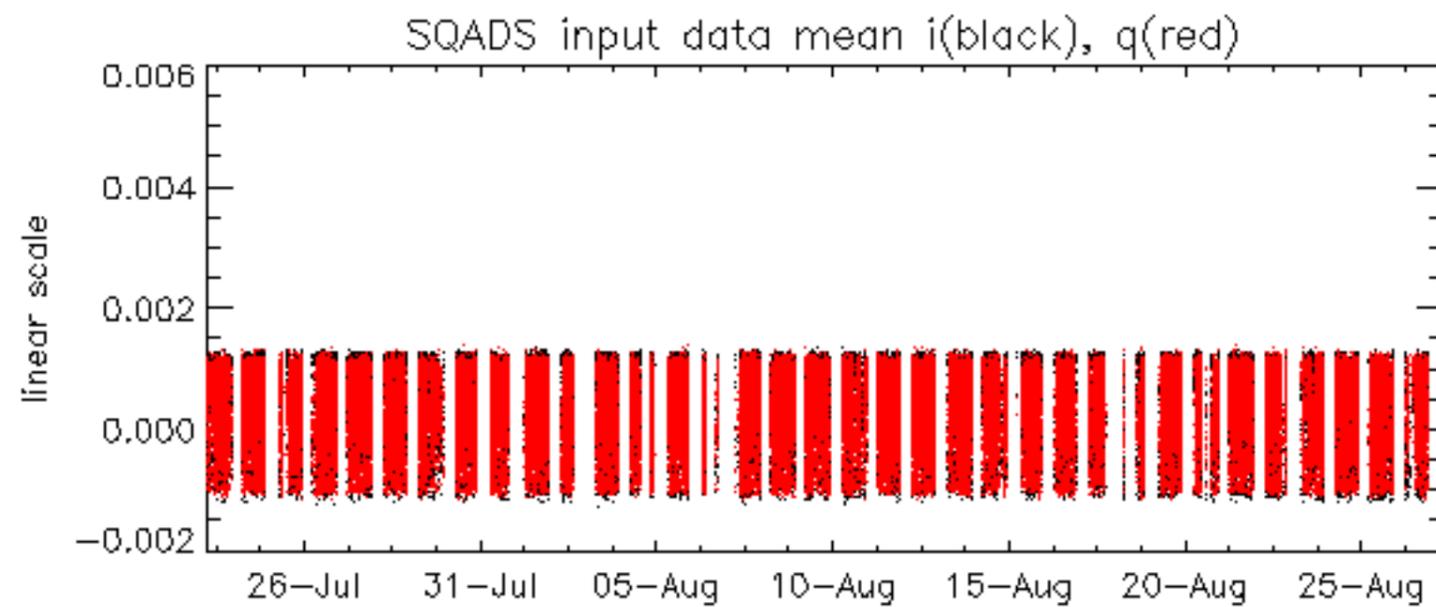
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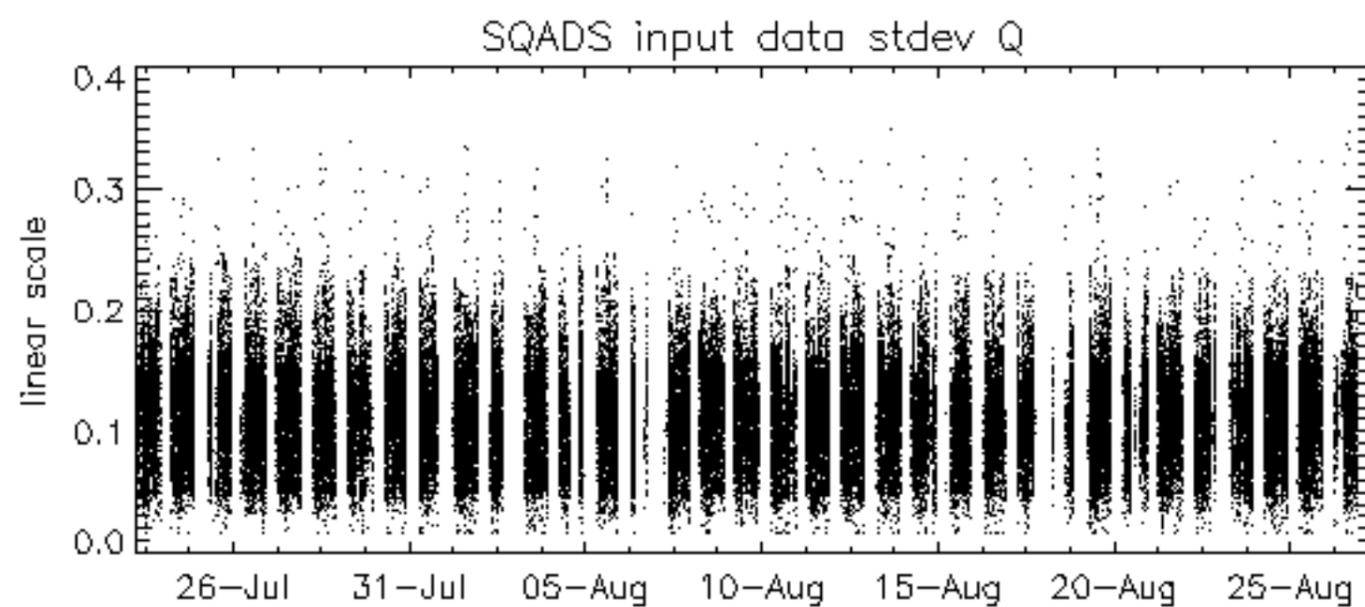
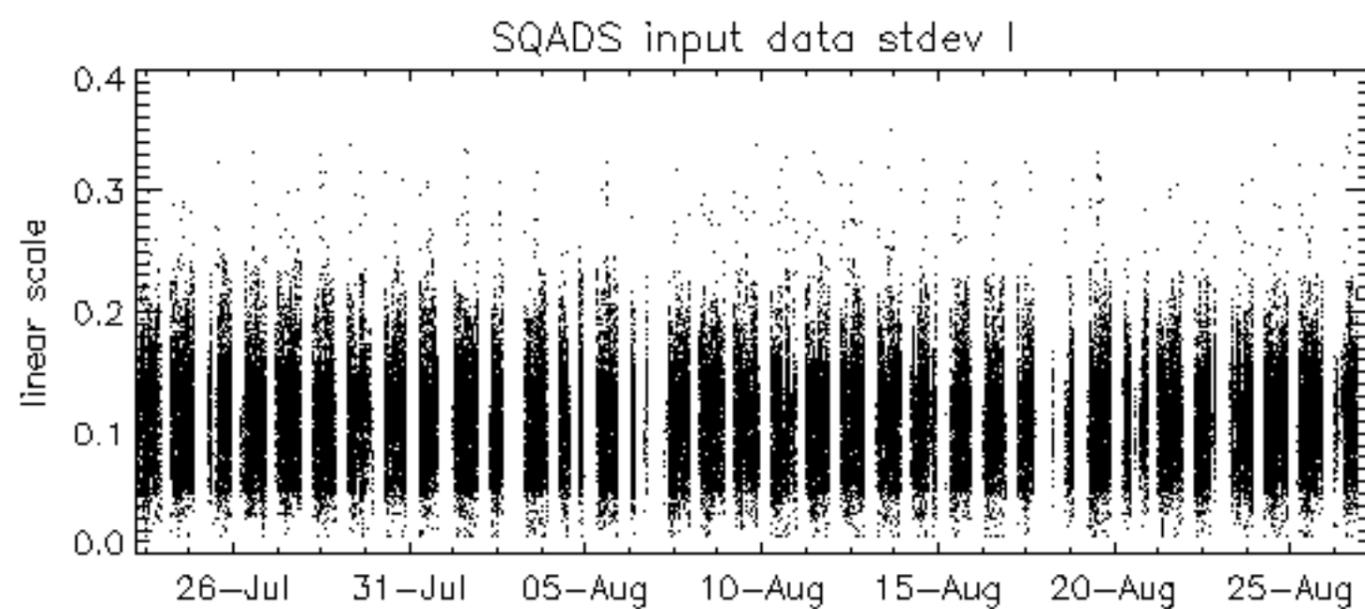
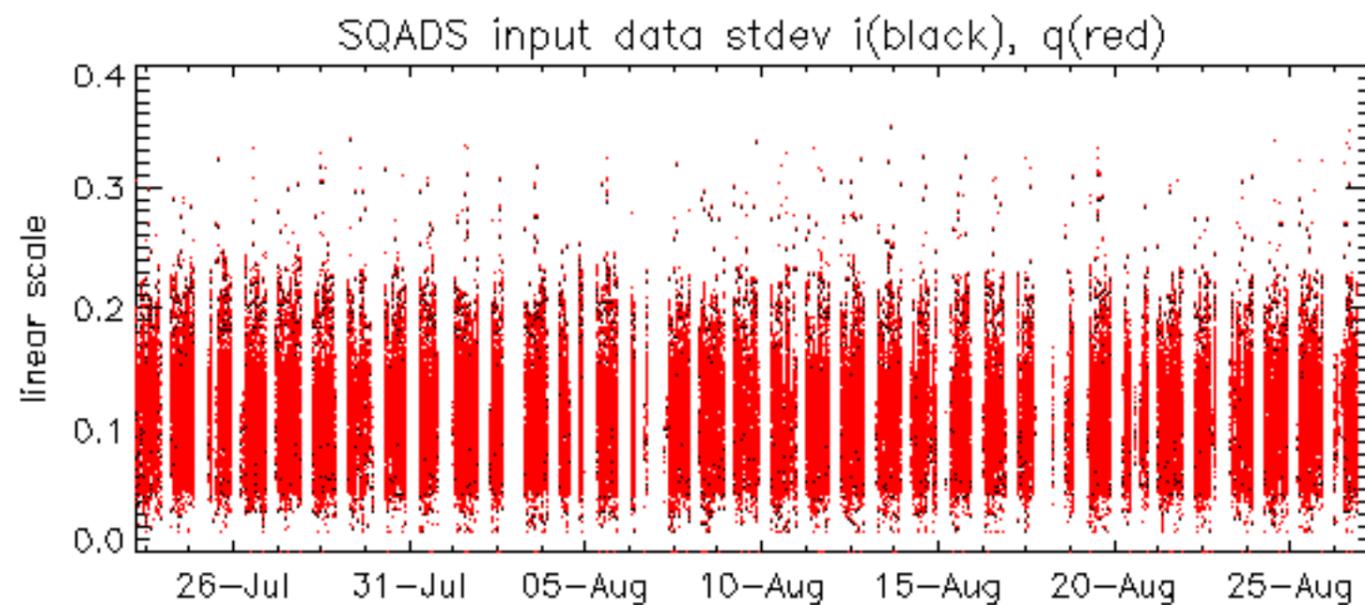
-ASA_MS__0PNPDK20030826_204037_000000152019_00214_07783_0026.N1

No anomalies observed.

No anomalies observed.







No unavailabilities during the reported period.