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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 acquired on 27-Aug-2003 (H and V polarisation):









- ASA_MS__0PNPDK20030827_200720_000000152019_00228_07797_0028.N1
- ASA_MS__0PNPDK20030827_200900_000000152019_00228_07797_0027.N1

No anomalies observed.











Polarisation	Start Time
V	20030827 200900
H	20030827 200720

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

Analysis performed on WVS data acquired from 27-August-2003 05:40:57 UTC to 28-August-2003 07:05:53 UTC.
No anomalies observed.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79926	-22.5369	-8.10592
	stdev	0.00500380	0.0596386	0.00218864
10	mean	-6.90968	-19.3399	-8.10592
	stdev	0.0213587	0.0617939	0.00218864



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.81170	-22.5457	-8.10657
	stdev	0.00561036	0.0617176	0.00230742
10	mean	-6.89812	-19.3301	-8.10657
	stdev	0.0244234	0.0605674	0.00230742



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	0.000442970
	stdev	3.17741e-07
MEAN Q	mean	0.000290171

stdev	3.27245e-07
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5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.114735
	stdev	0.00154167
STDEV Q	mean	0.114908
	stdev	0.00156586



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

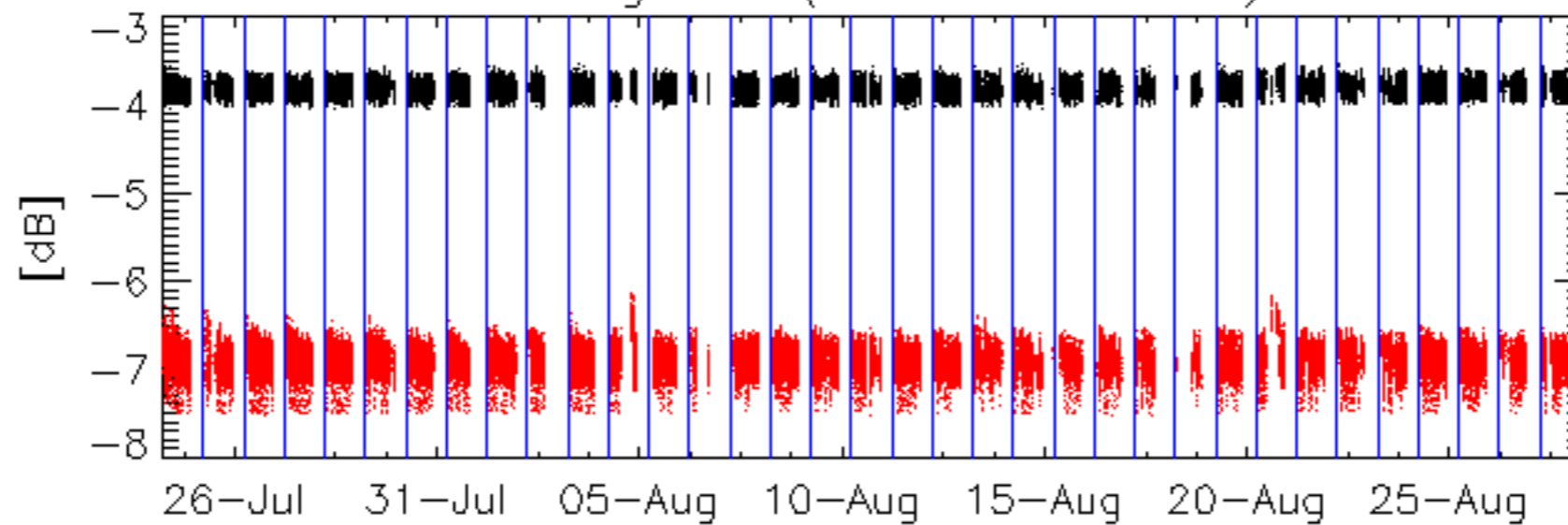
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

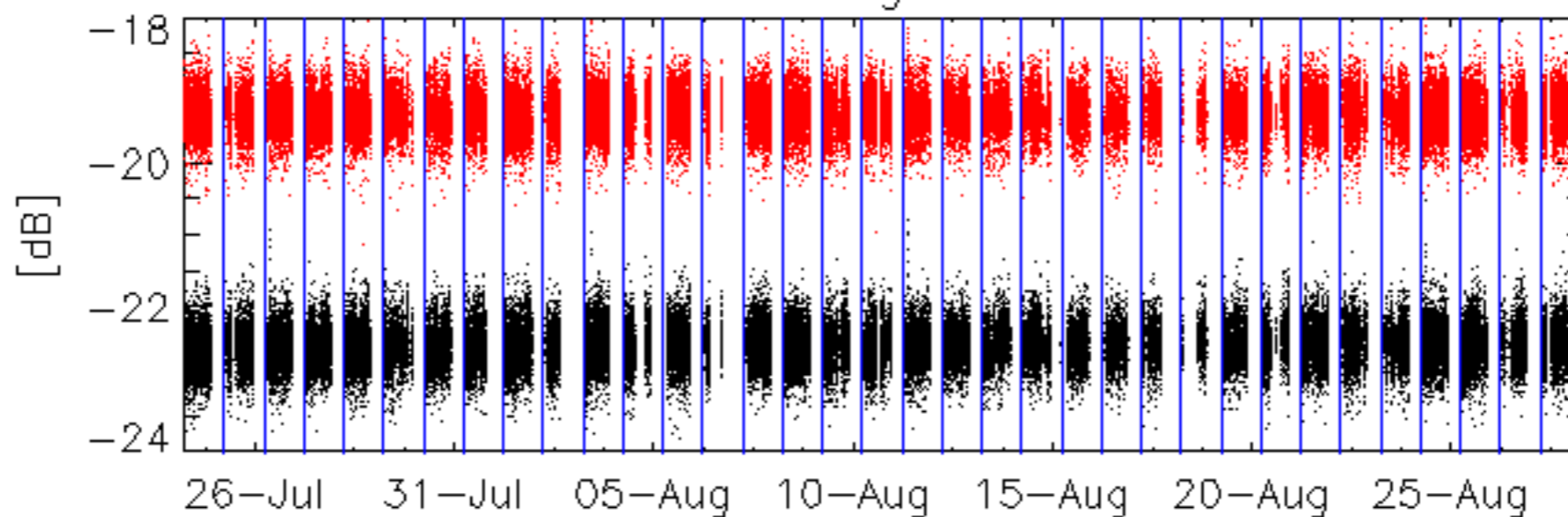
Evolution Doppler error versus ANX



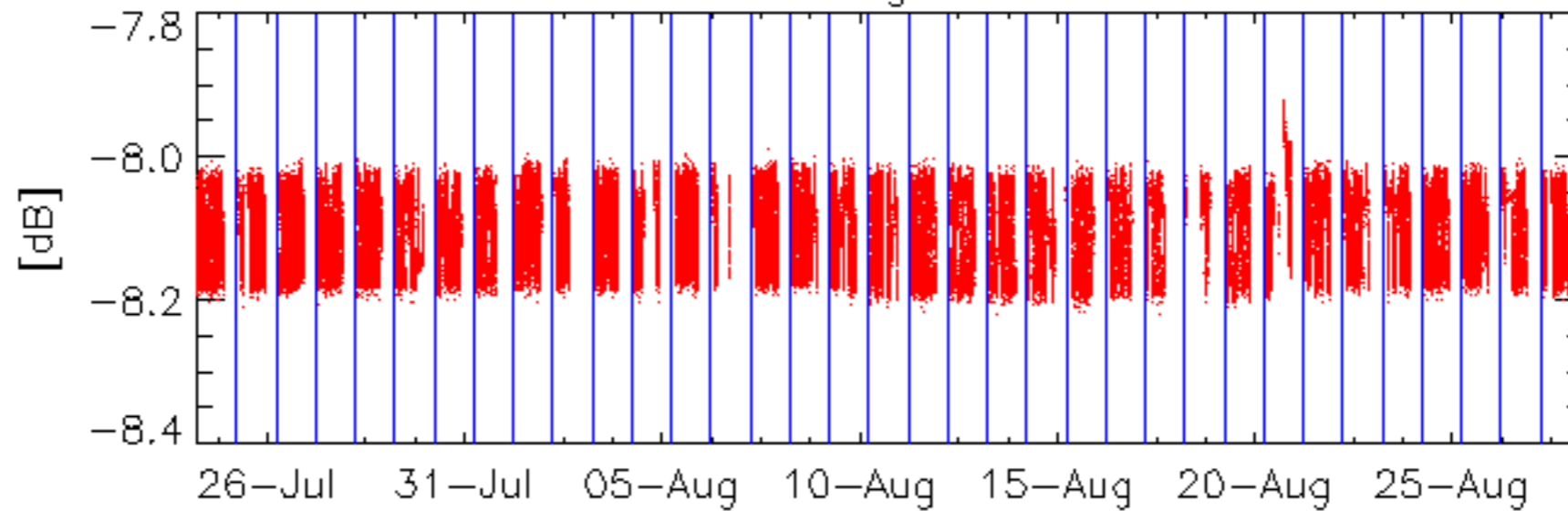
Average P1 (row 3 & row 10)



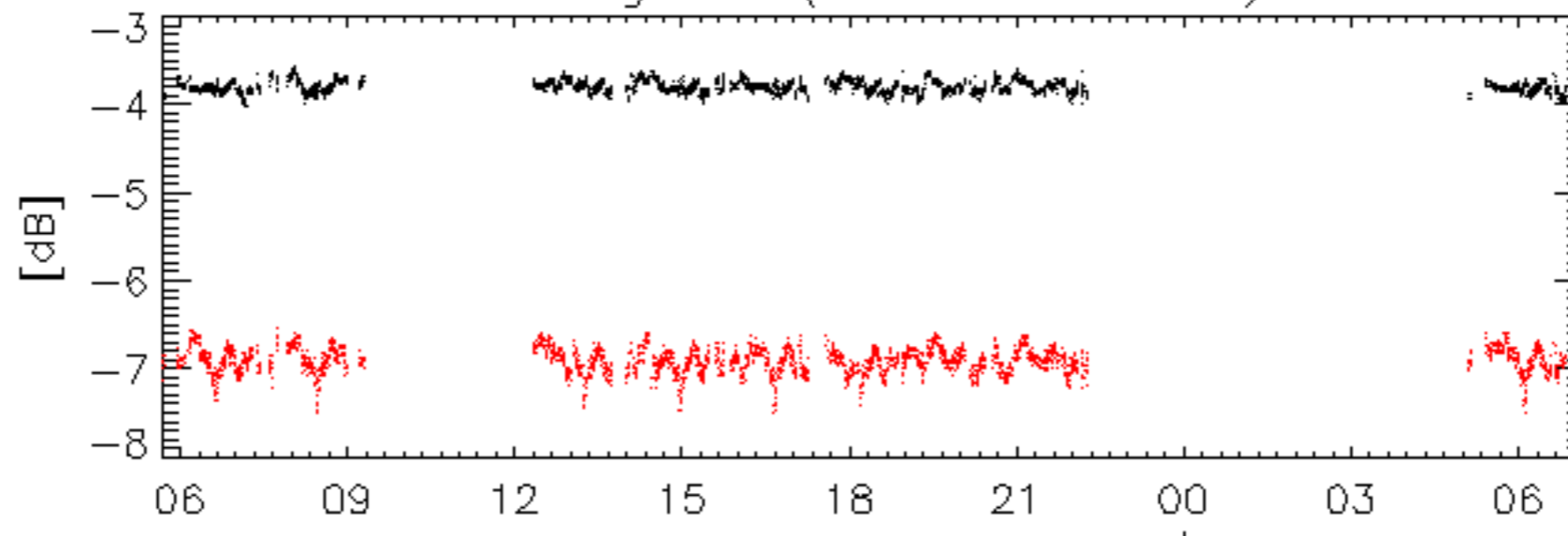
Average P2



Average P3

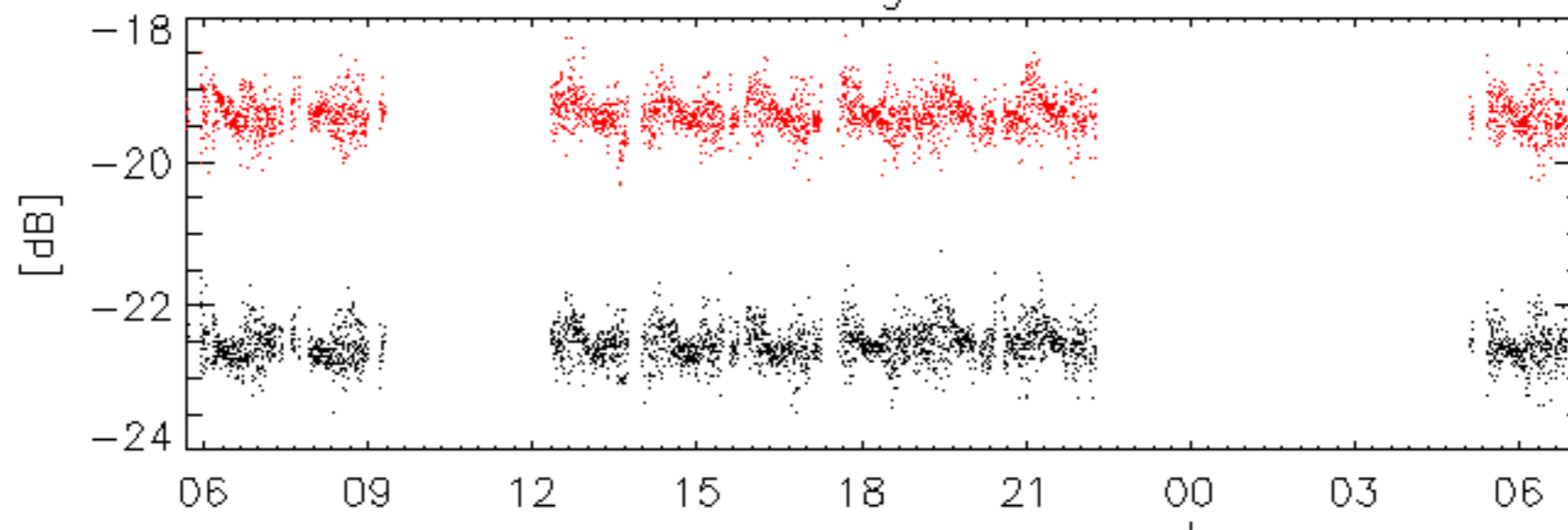


Average P1 (row 3 & row 10)



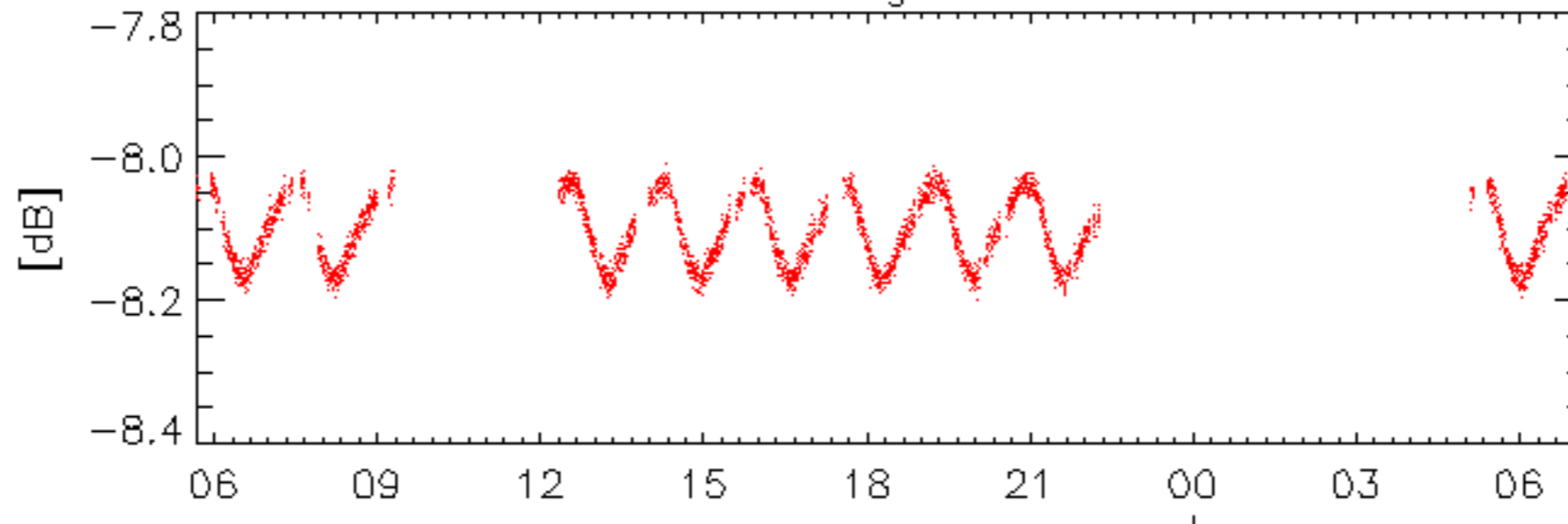
28-Aug

Average P2

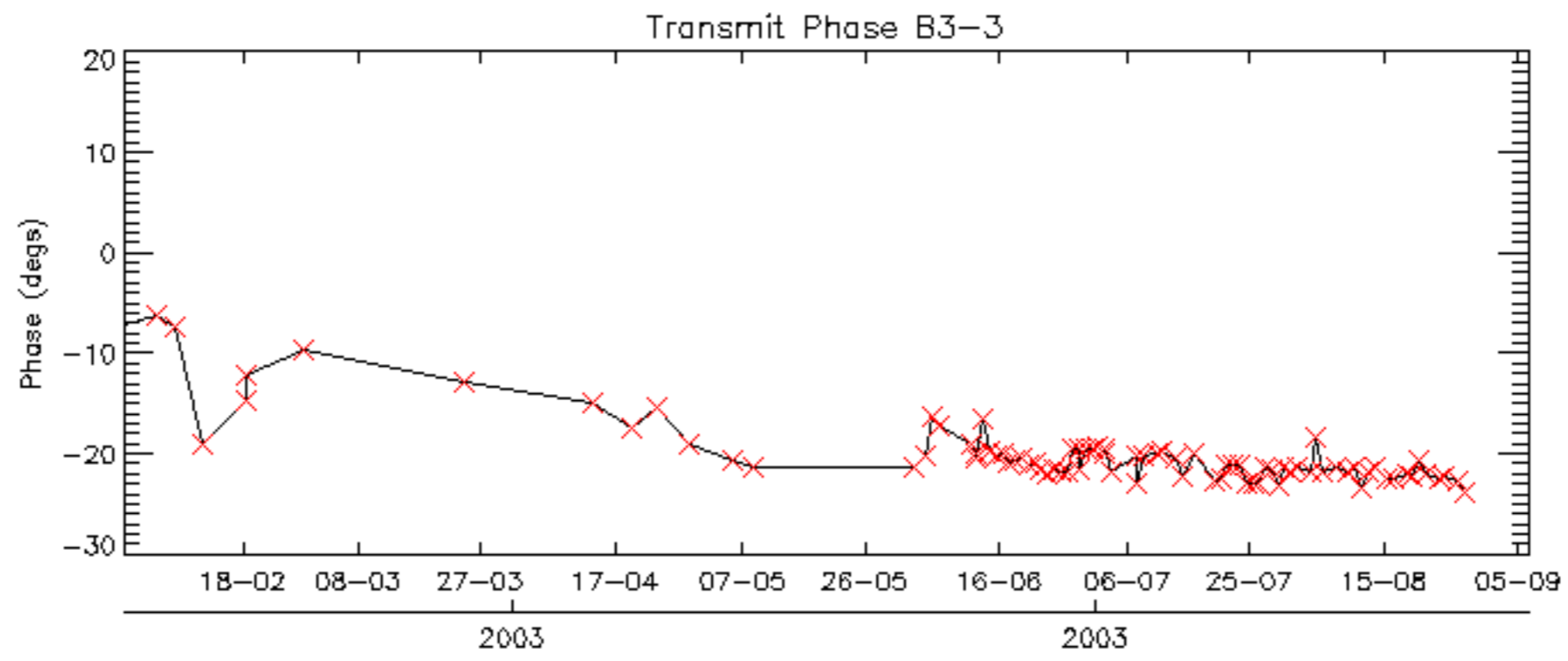


28-Aug

Average P3



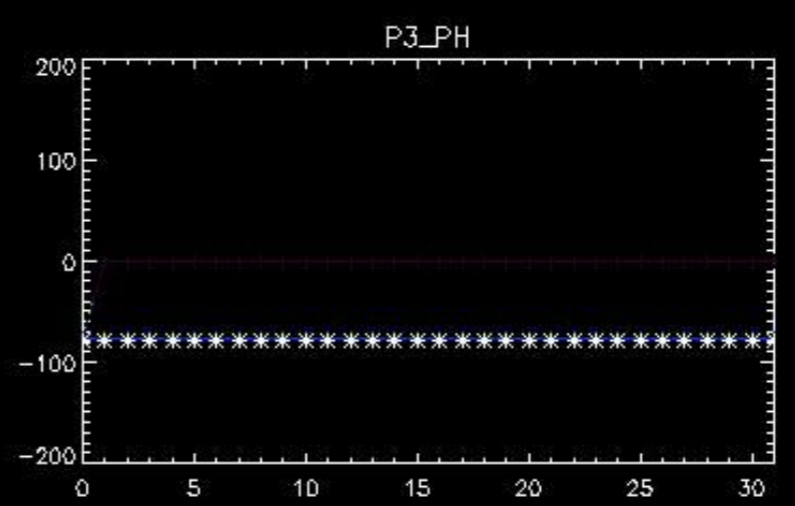
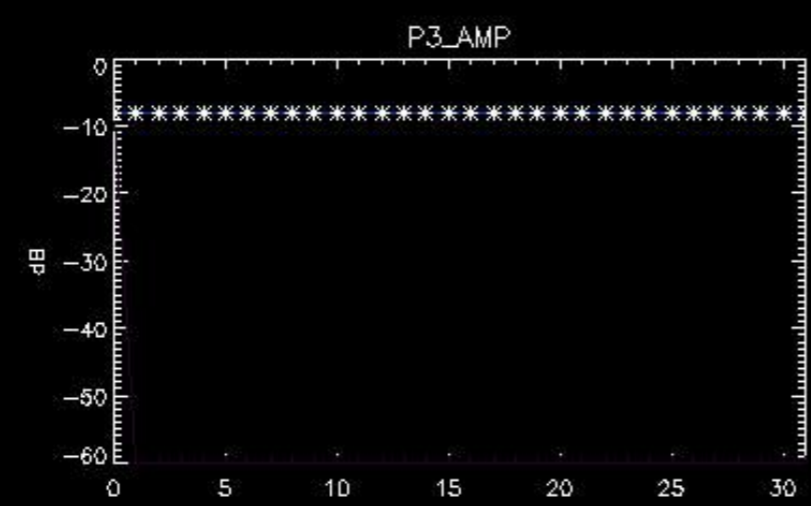
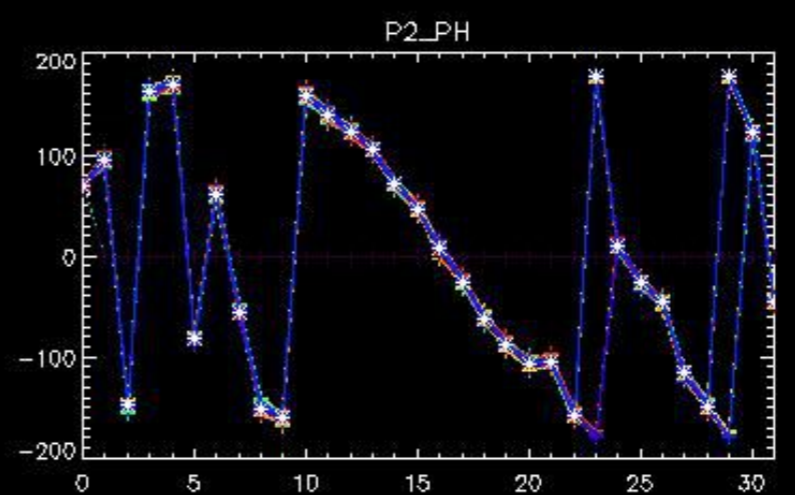
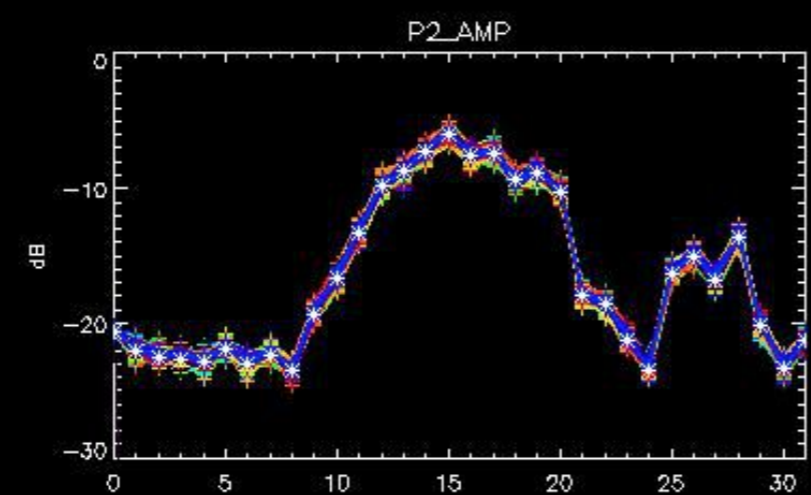
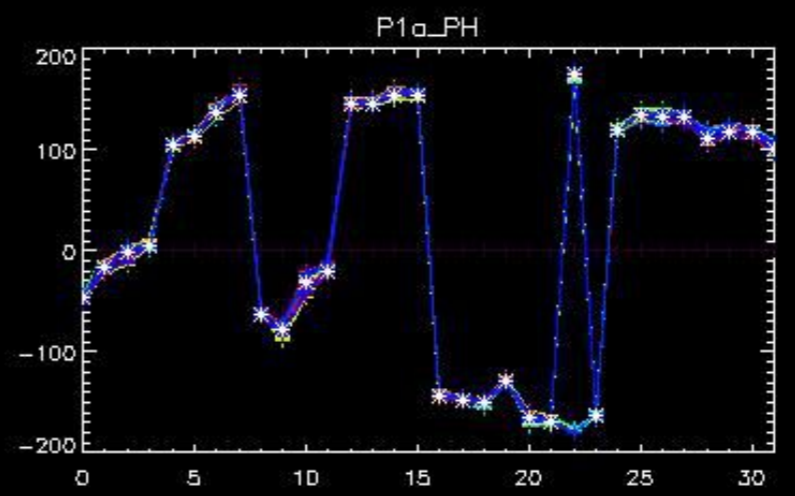
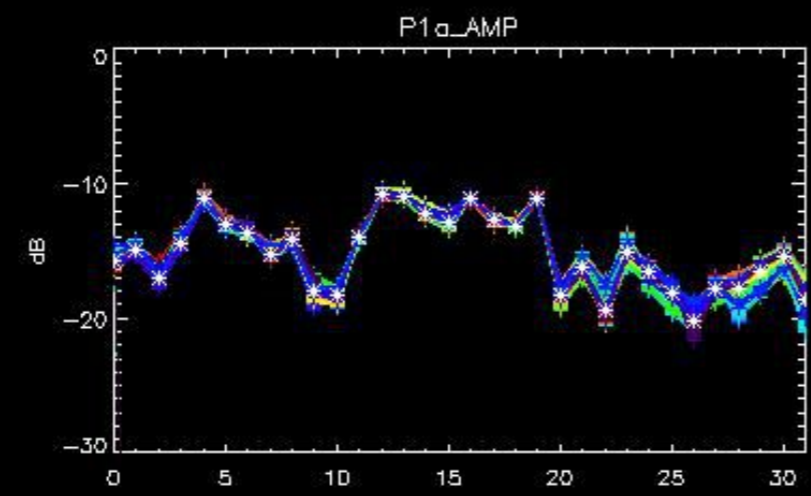
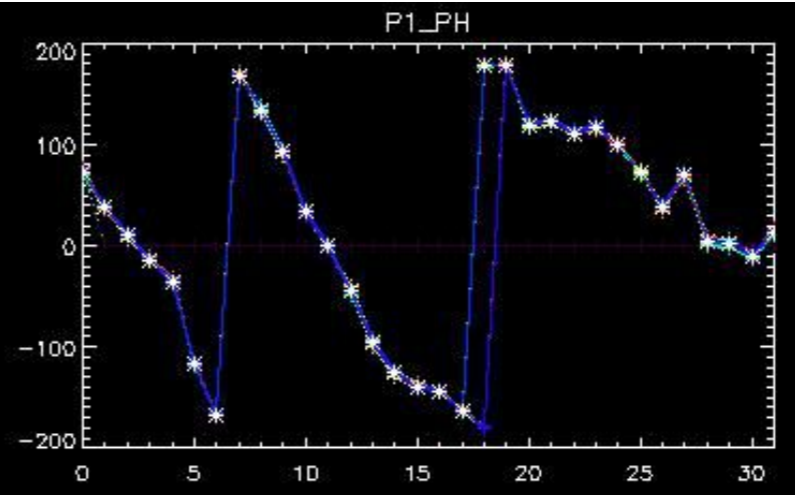
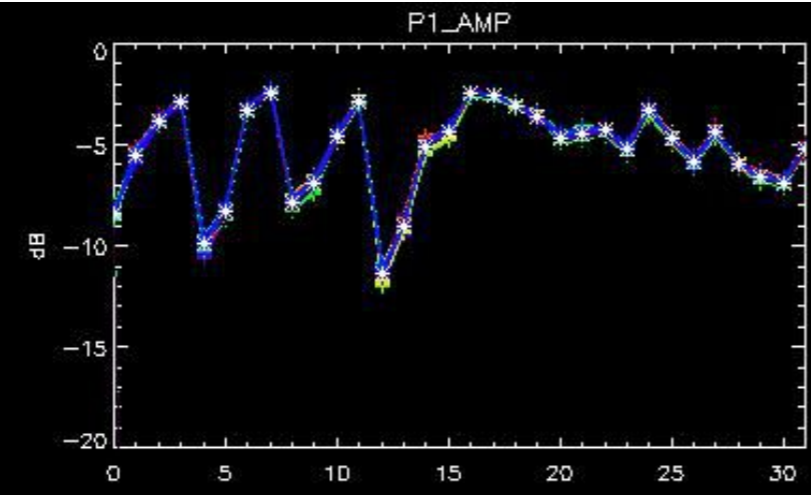
28-Aug



No anomalies observed on available browse products.

Analysis performed on WVS data acquired from 27-August-2003 05:40:57 UTC to 28-August-2003 07:05:53 UTC.
No anomalies observed.

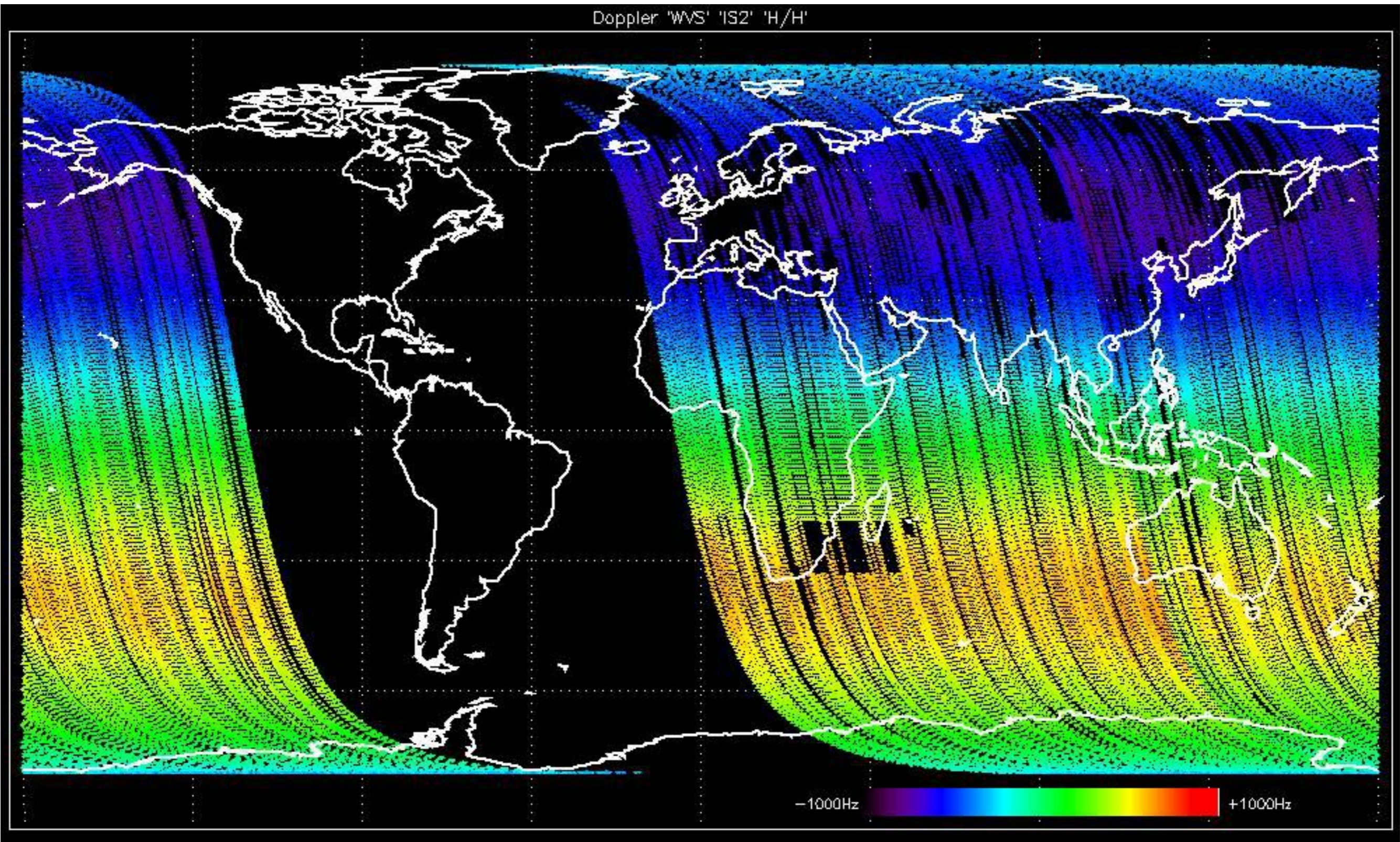




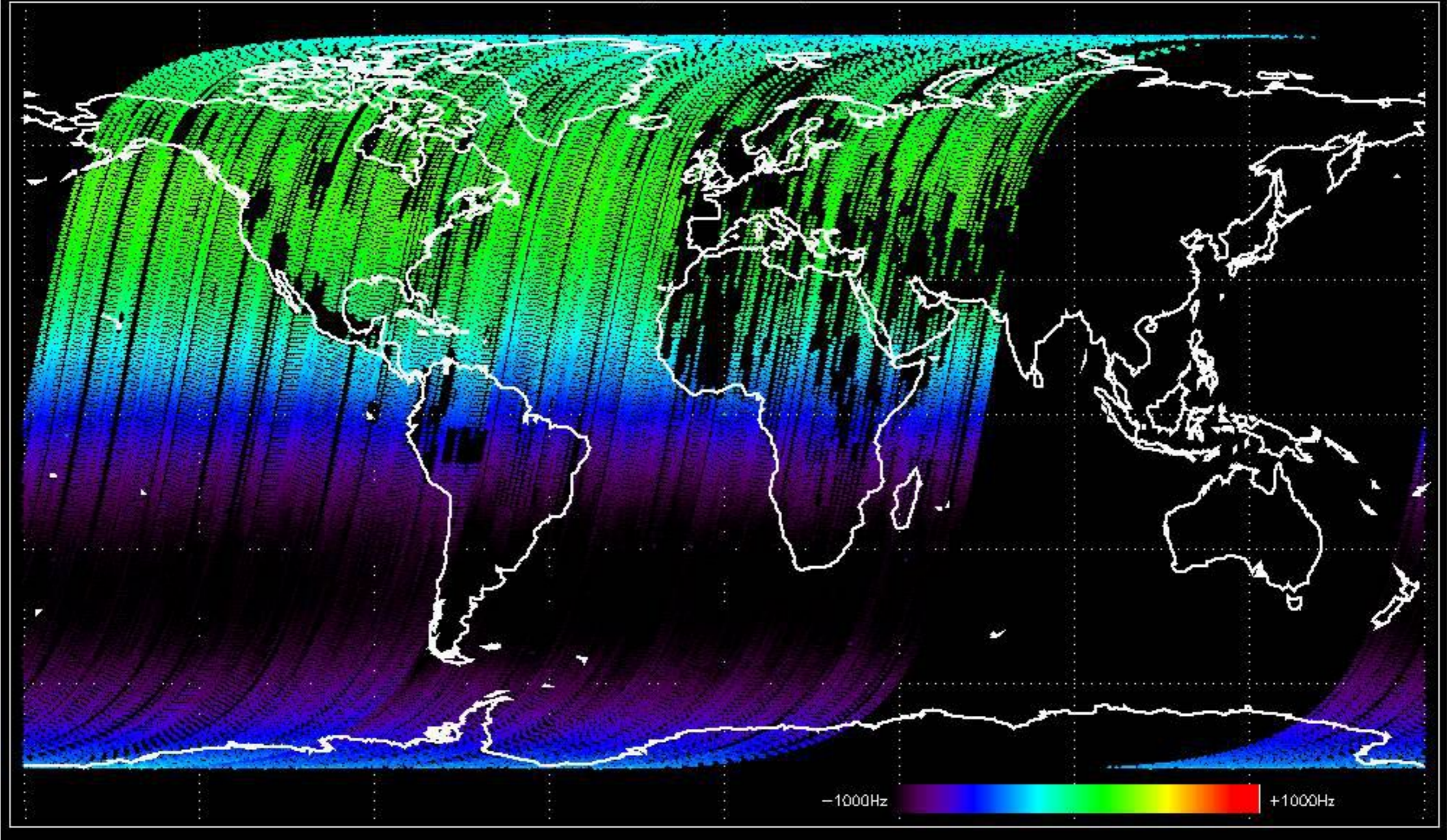
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
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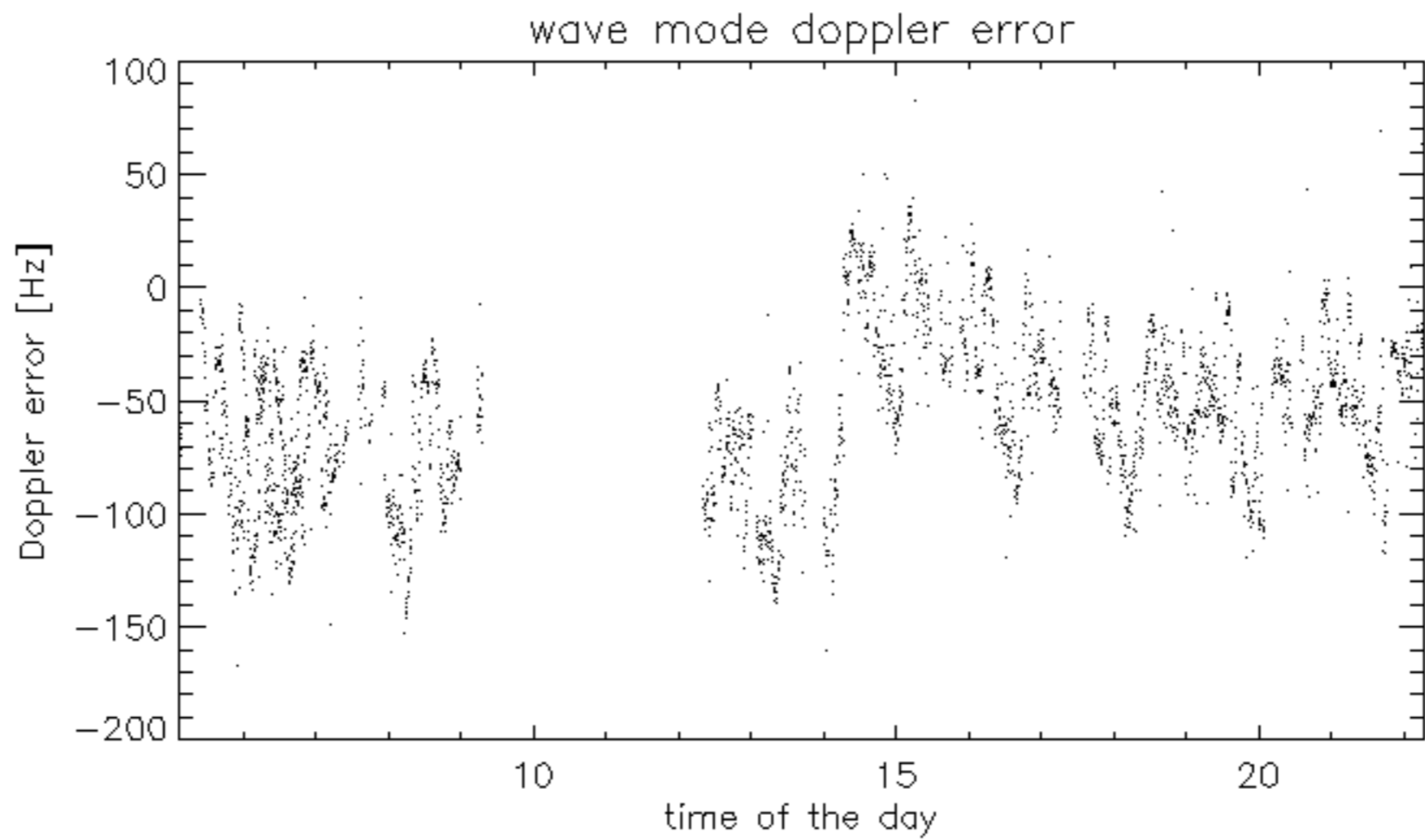
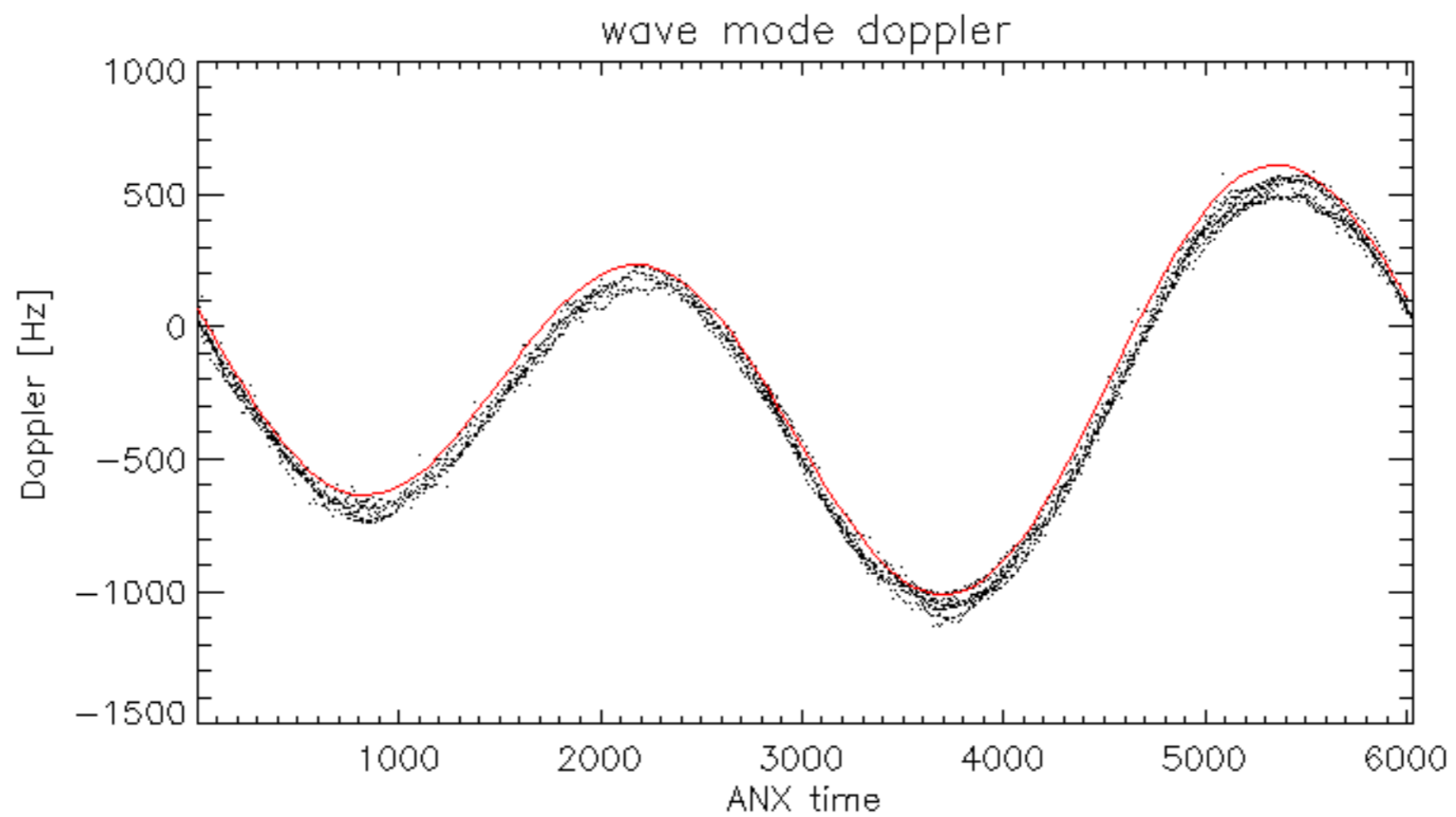
No anomalies observed in Doppler evolution.
Doppler analysis performed over the last 60 days.

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

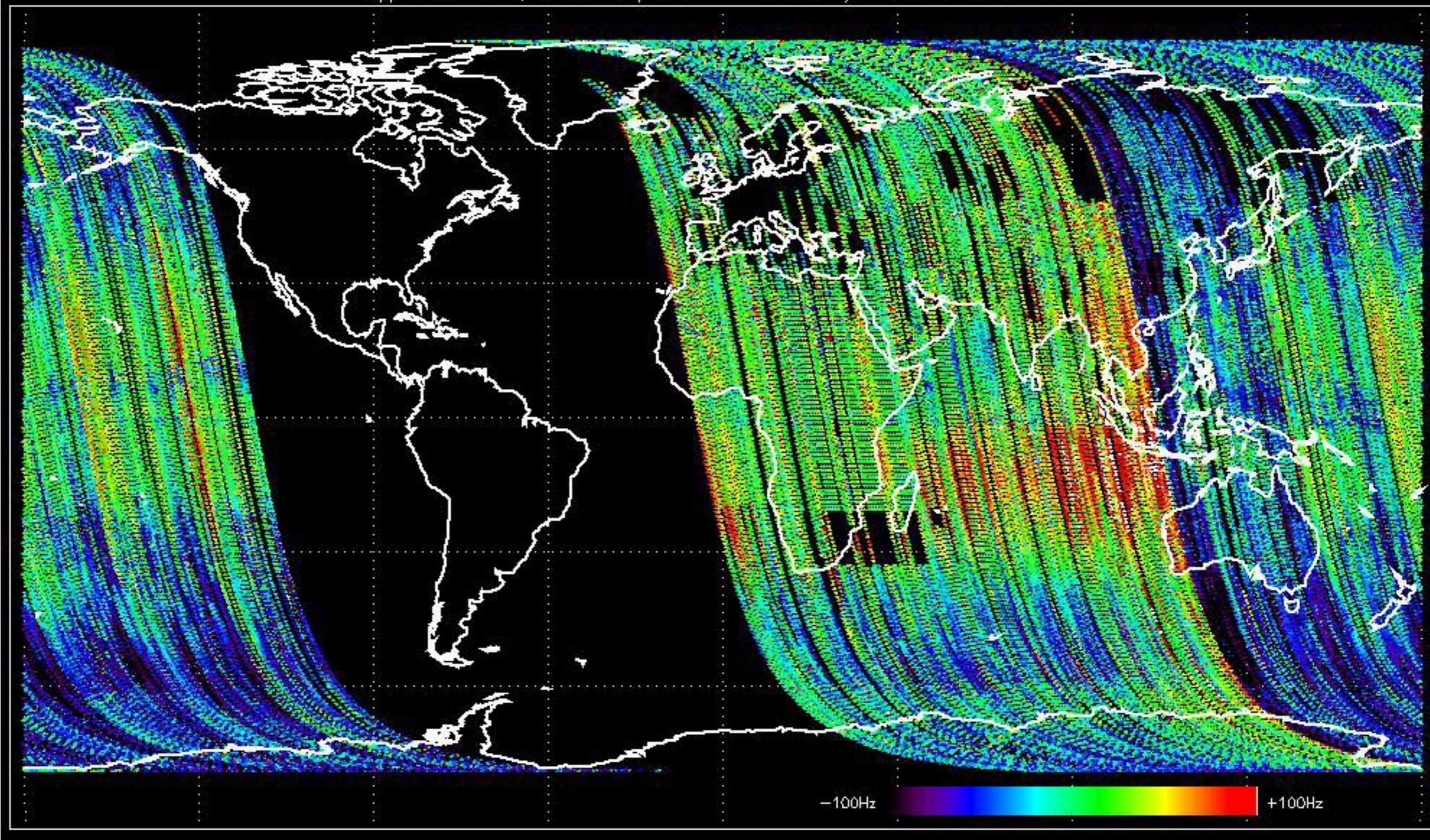


Doppler 'WVS' 'IS2' 'V/V'

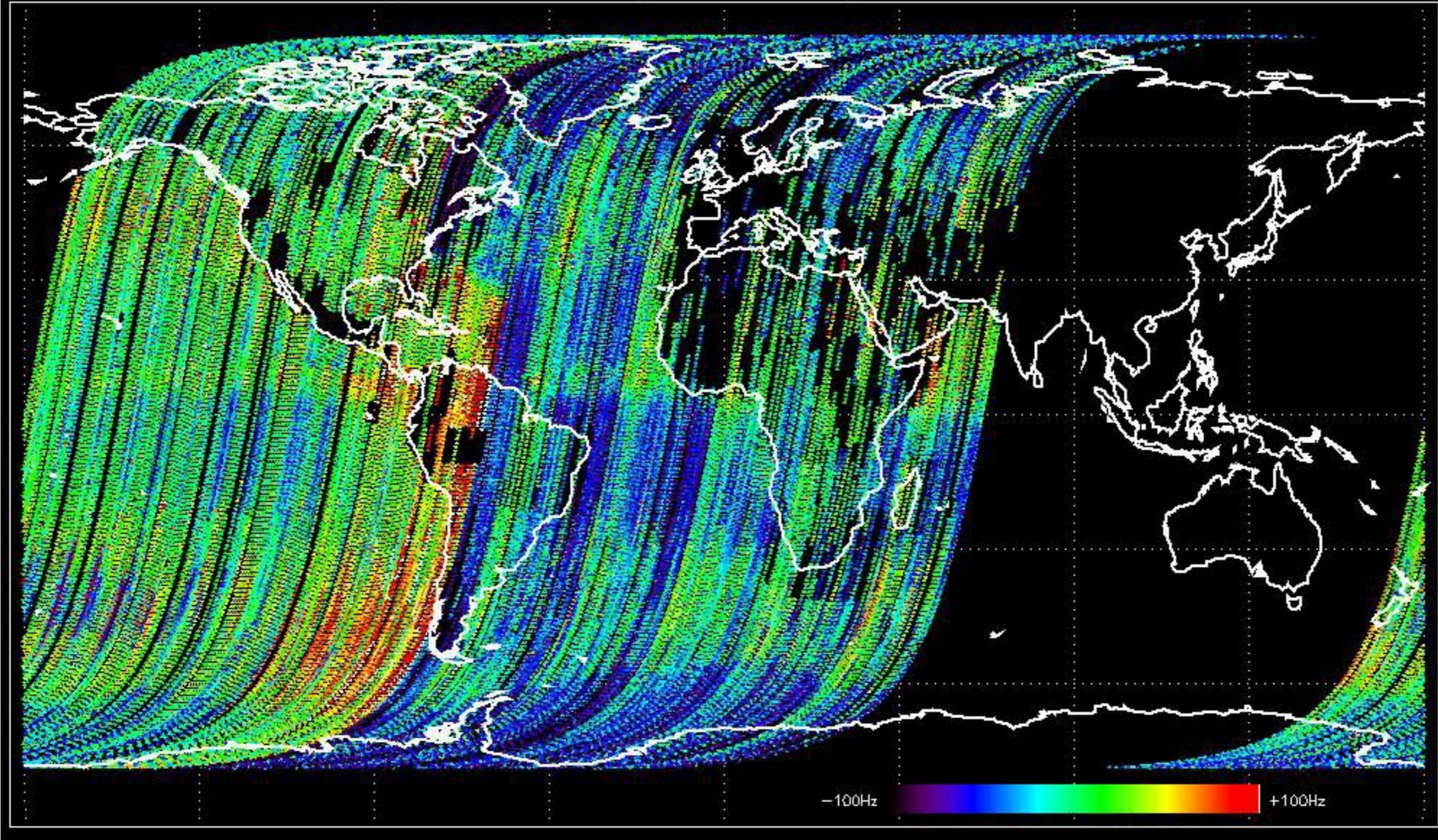




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



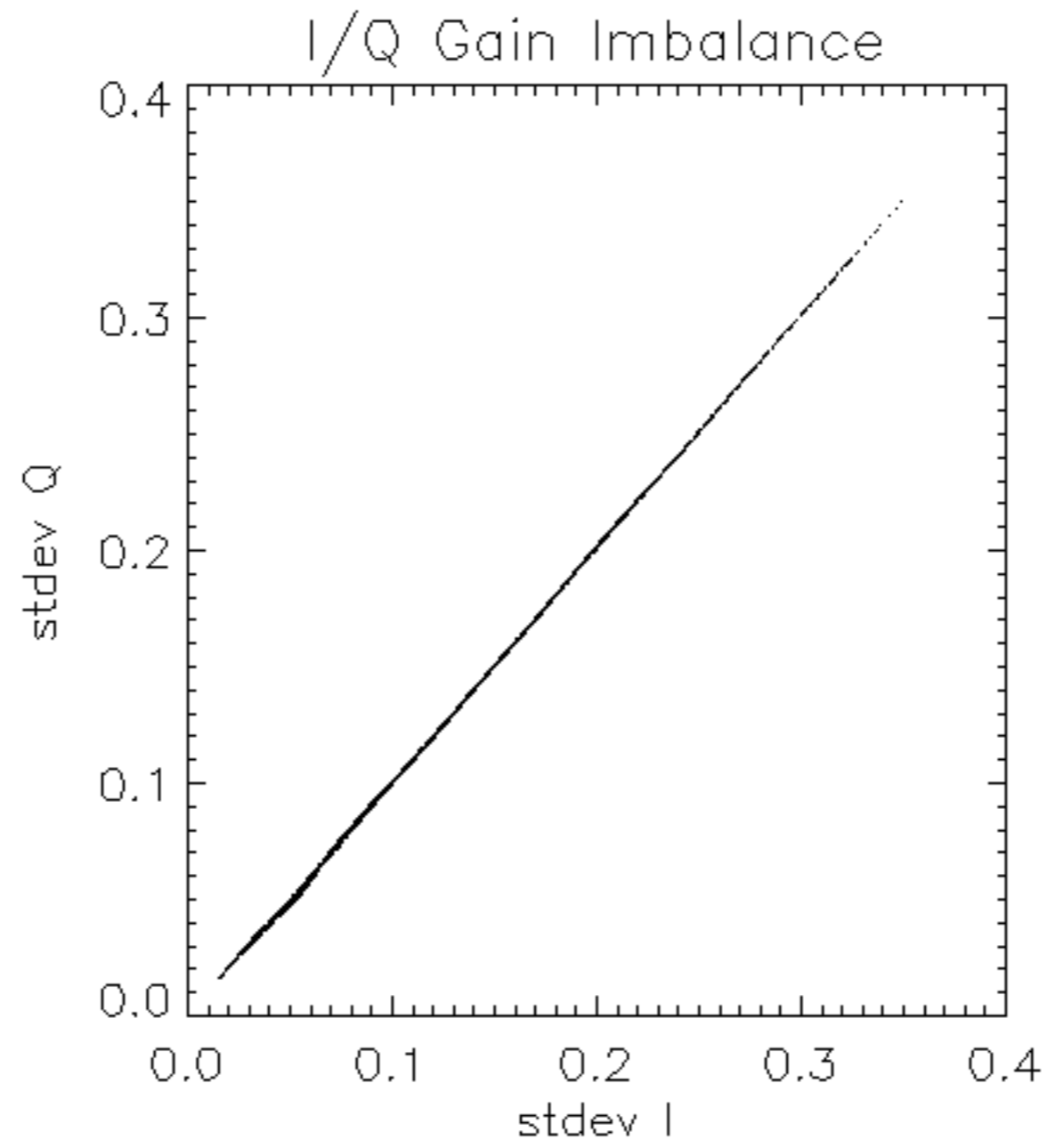
Two MS products available for analysis acquired on 27-Aug-2003 (H and V polarisation):

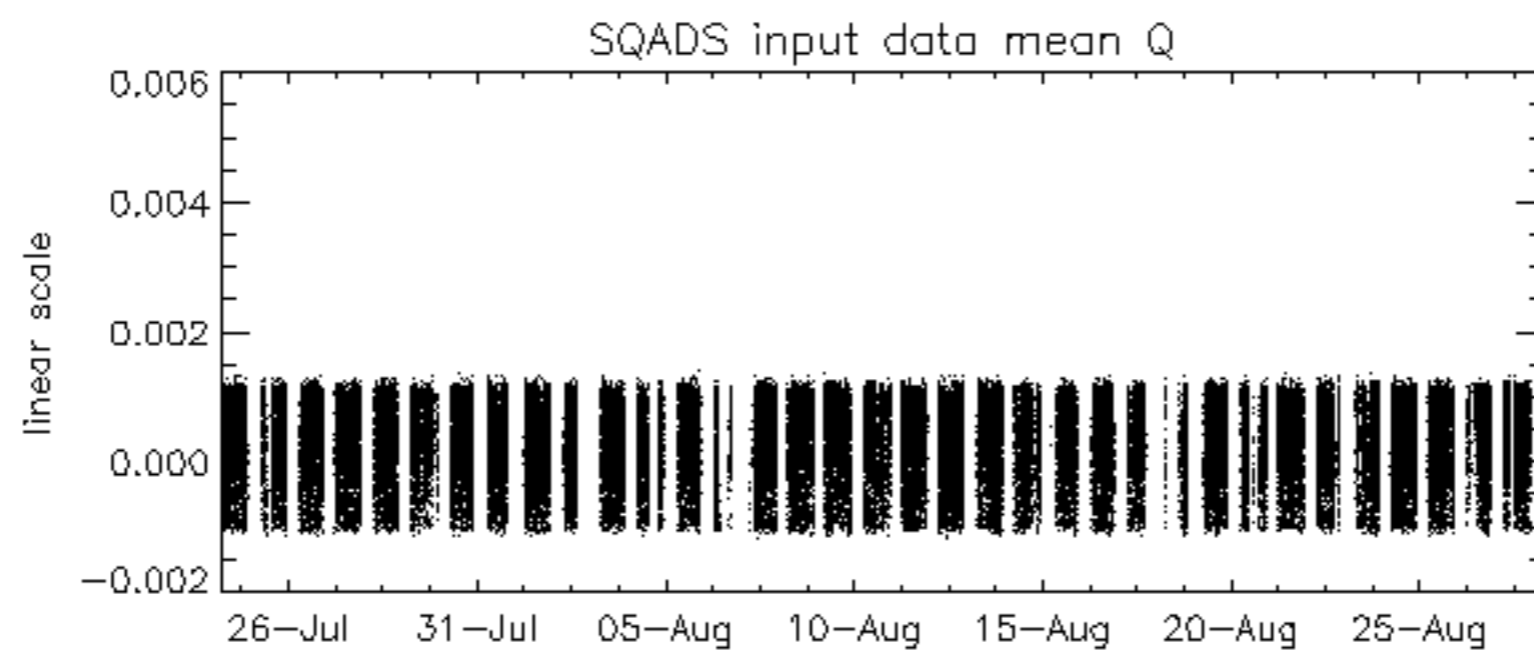
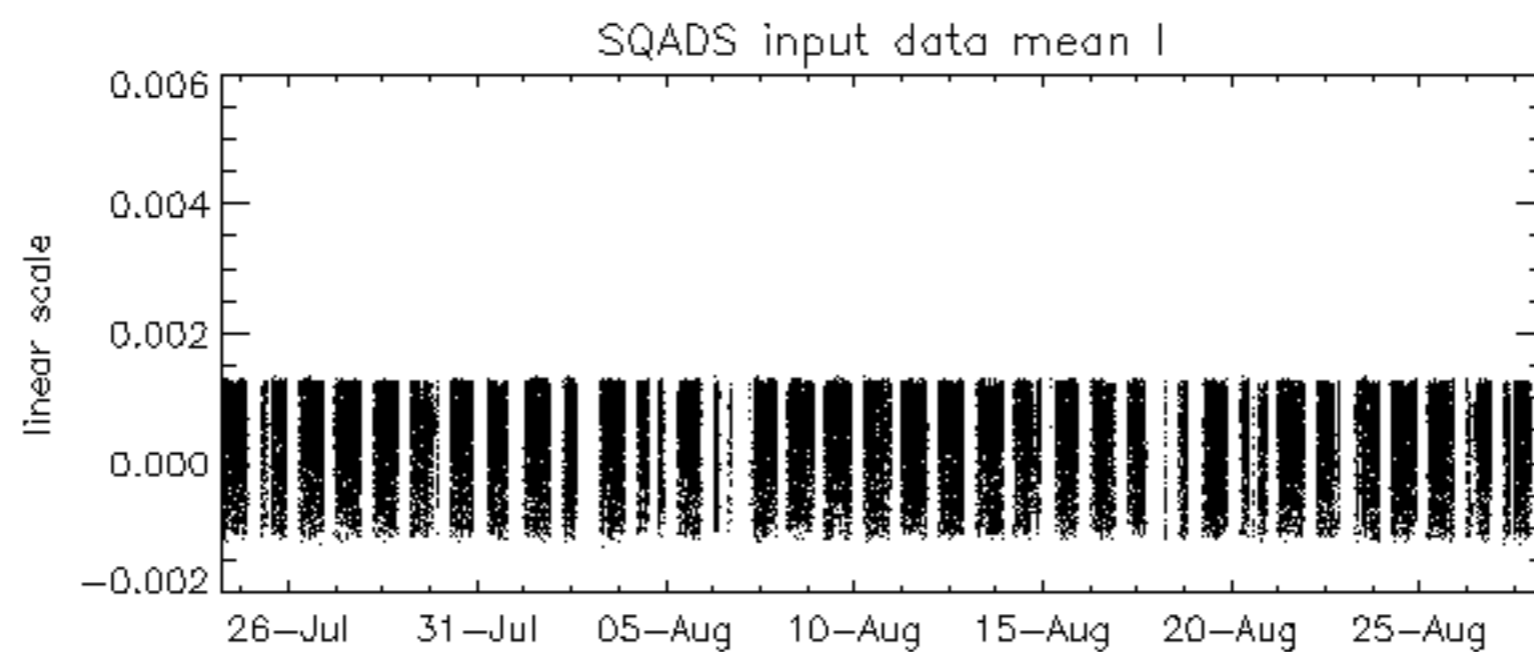
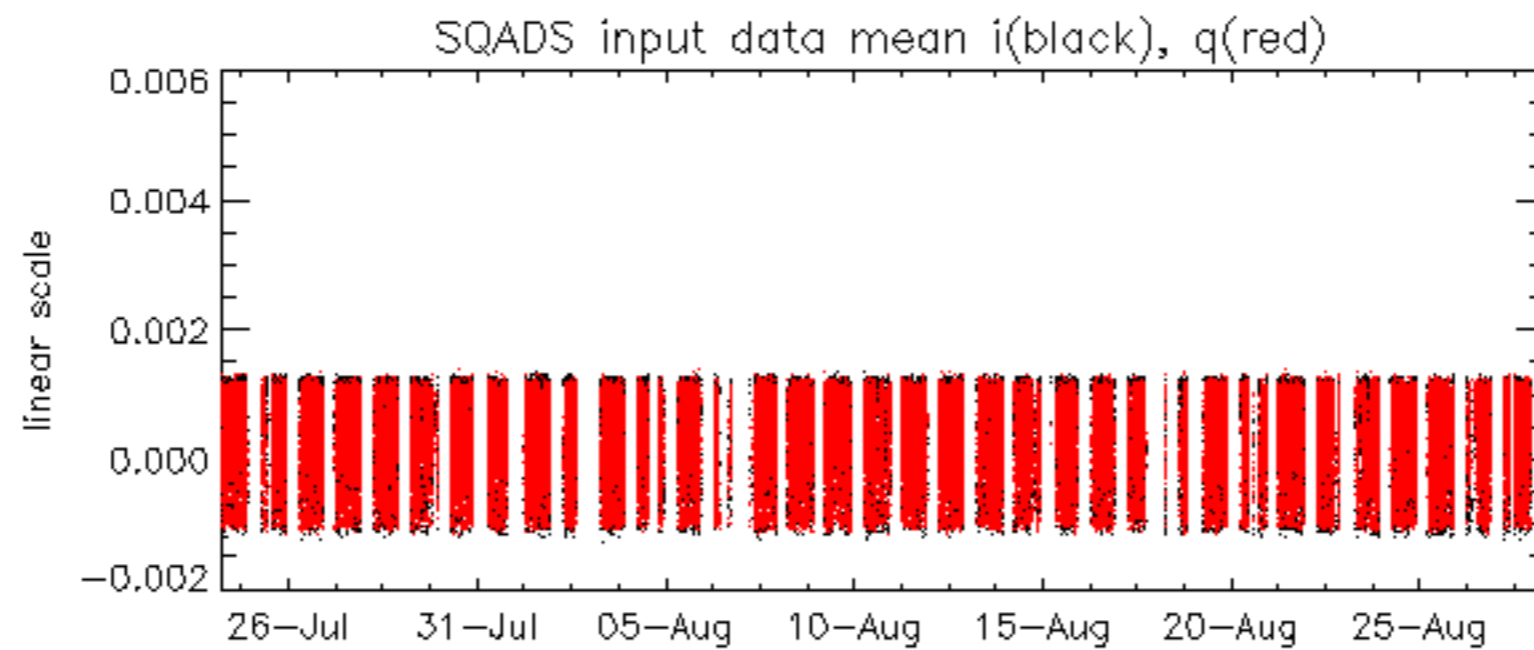
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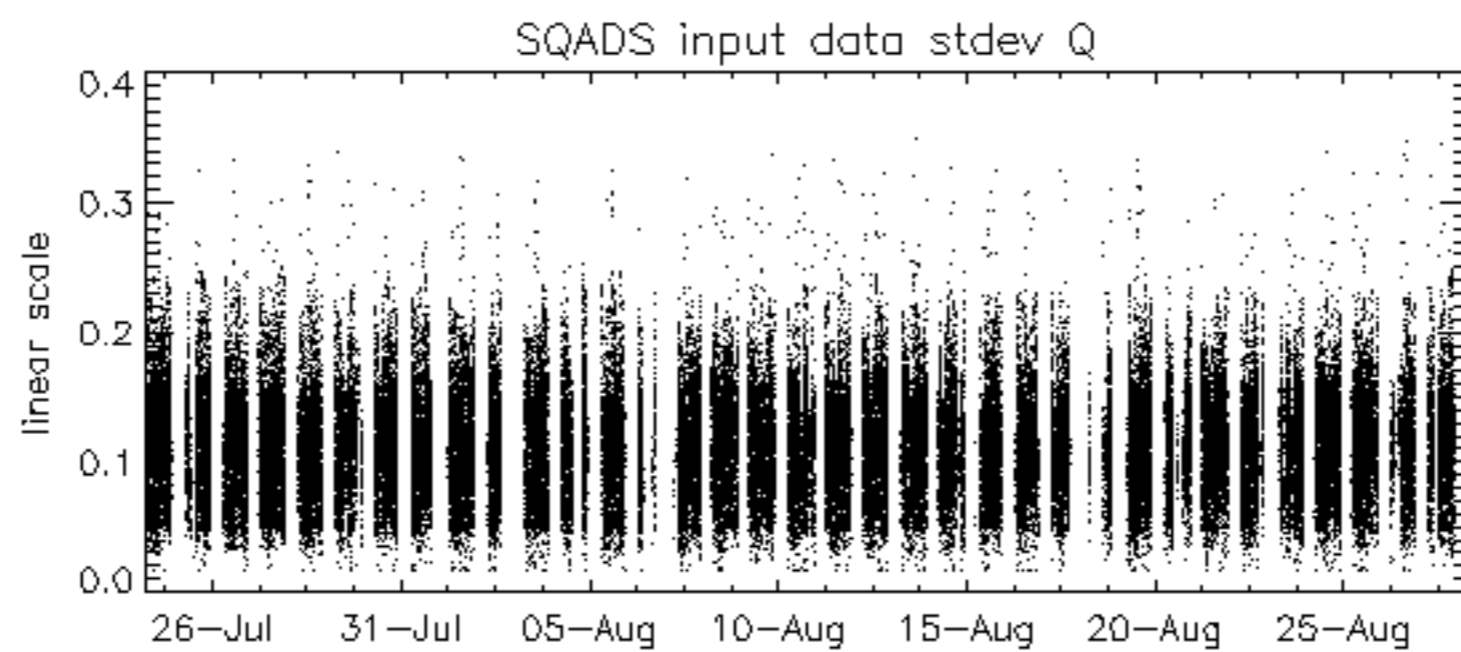
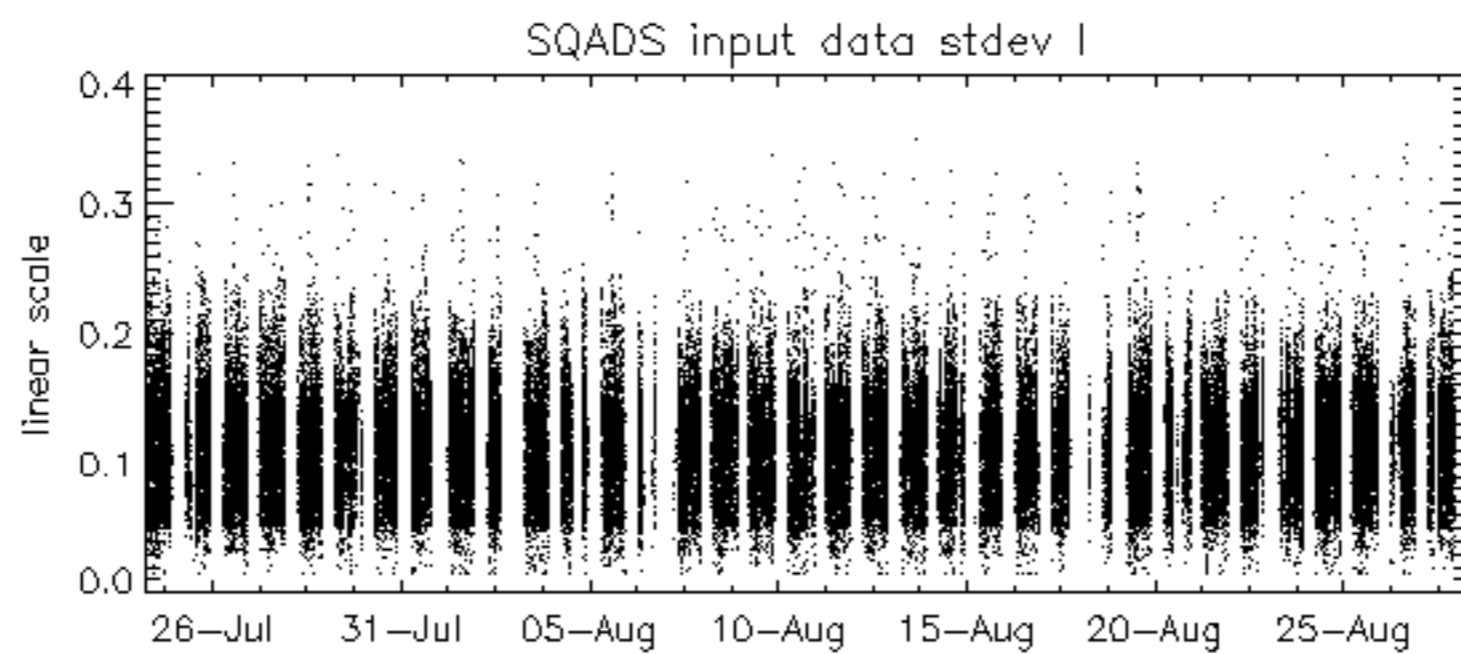
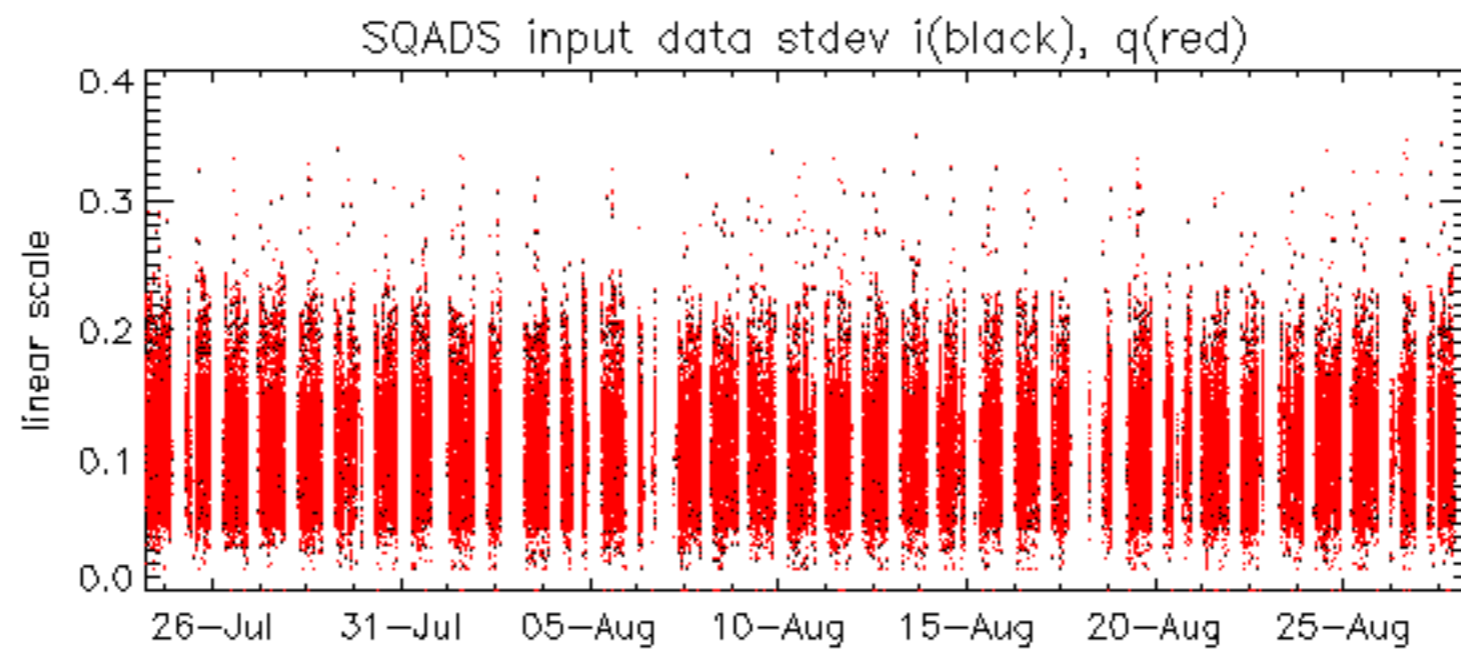
-ASA_MS__0PNPDK20030827_200900_000000152019_00228_07797_0027.N1

No anomalies observed.

No anomalies observed.







No unavailabilities during the reported period.