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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:











Polarisation	Start Time
V	20030831 194308
H	20030831 194128

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. Stable P1, P2 and P3 cal pulses.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.80077	-22.5504	-8.10563
	stdev	0.00559058	0.0607106	0.00225862
10	mean	-6.88765	-19.3150	-8.10563
	stdev	0.0282367	0.0587971	0.00225862



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.80846	-22.5413	-8.10709
	stdev	0.00573999	0.0610231	0.00231643
10	mean	-6.89981	-19.3309	-8.10709
	stdev	0.0237487	0.0599625	0.00231643



4.3 - cal pulses monitoring (all rows)



5 - RAW data statistics

No anomalies observed.
Stable behaviour of raw data statistics.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000426745
	stdev	3.23980e-07
MEAN Q	mean	0.000290293
	stdev	3.23674e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.114475
	stdev	0.00150428
STDEV Q	mean	0.114654
	stdev	0.00152682



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

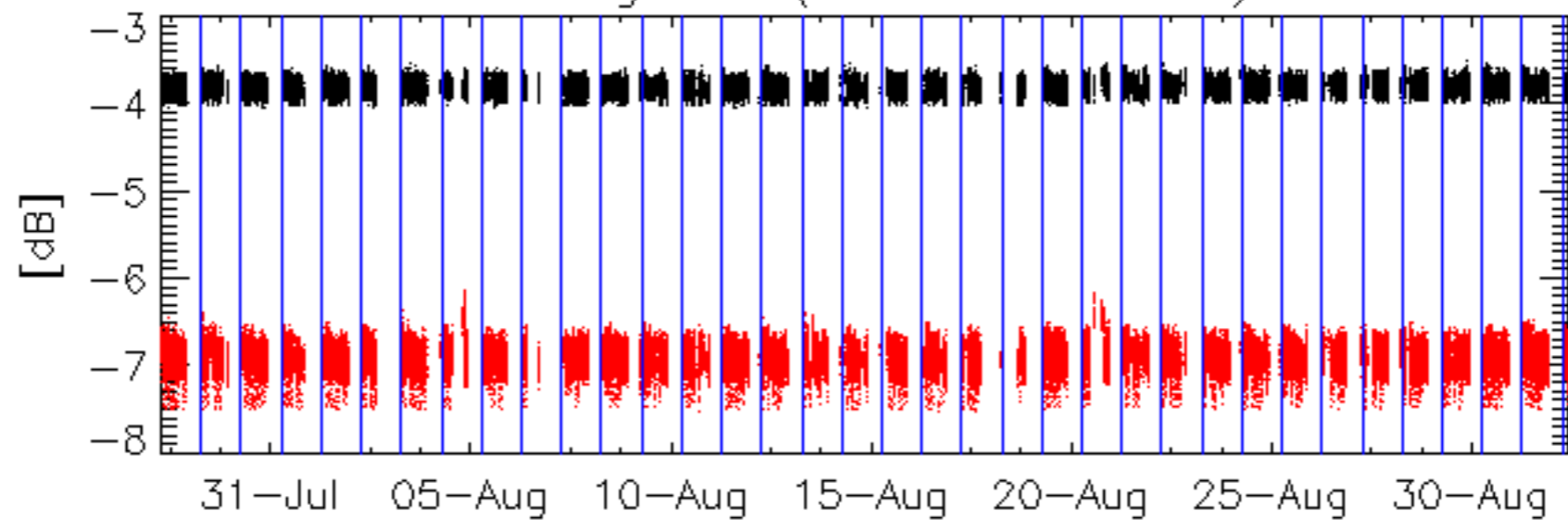
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

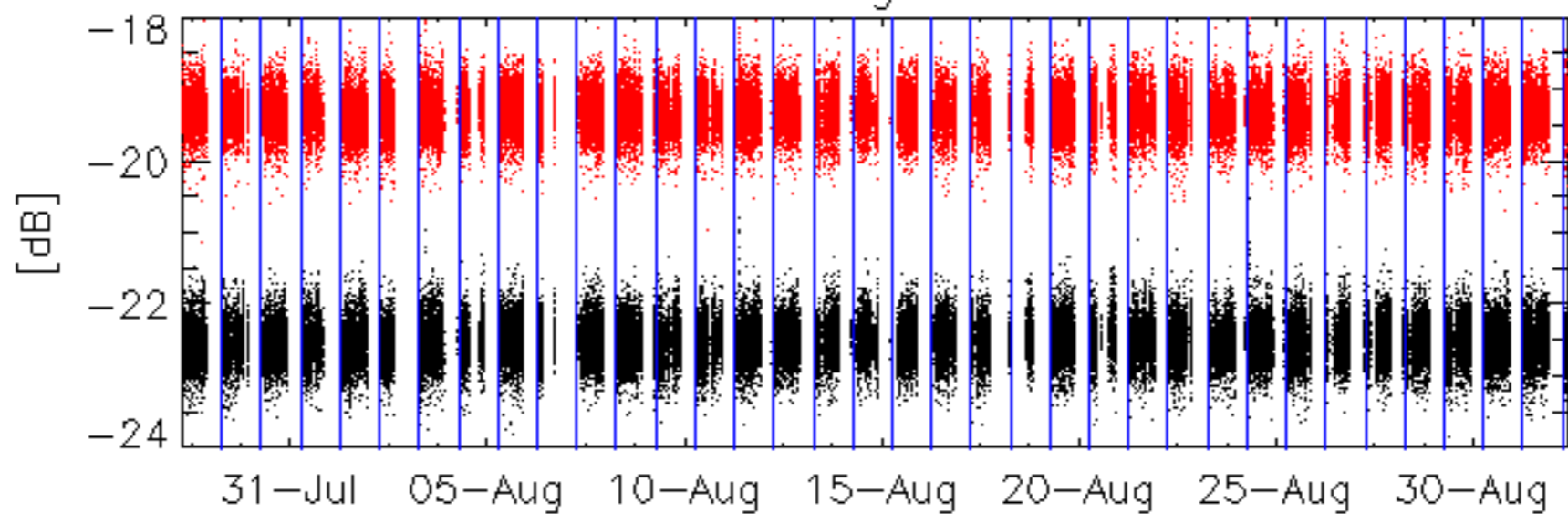
Evolution Doppler error versus ANX



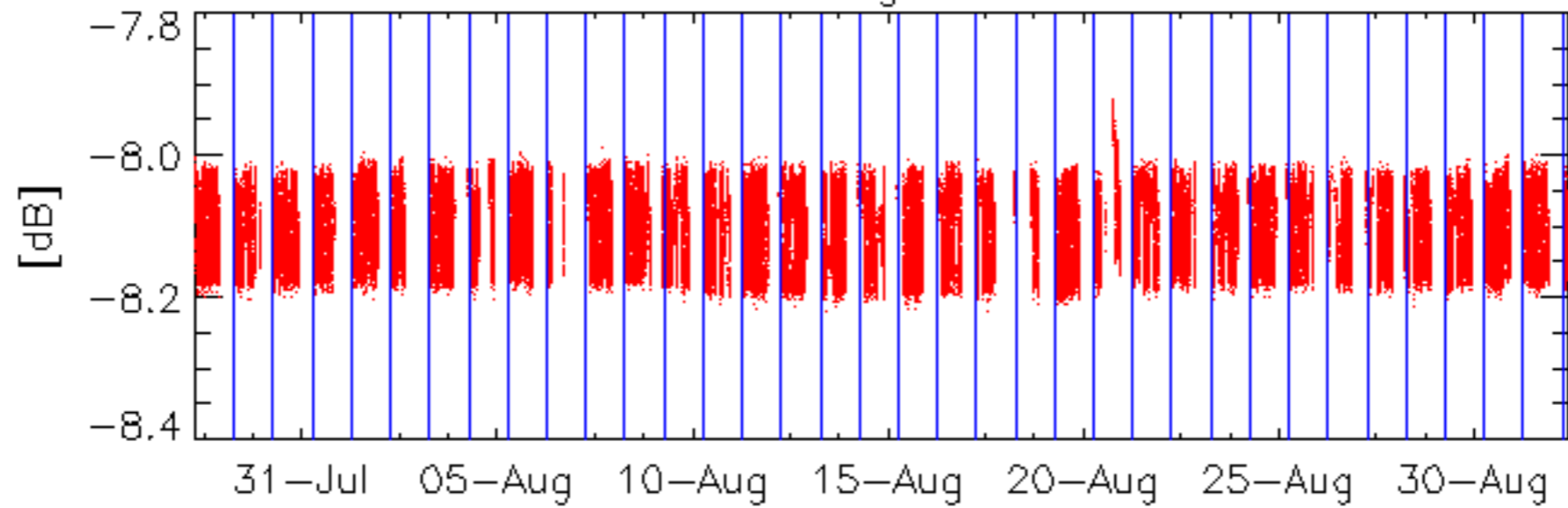
Average P1 (row 3 & row 10)



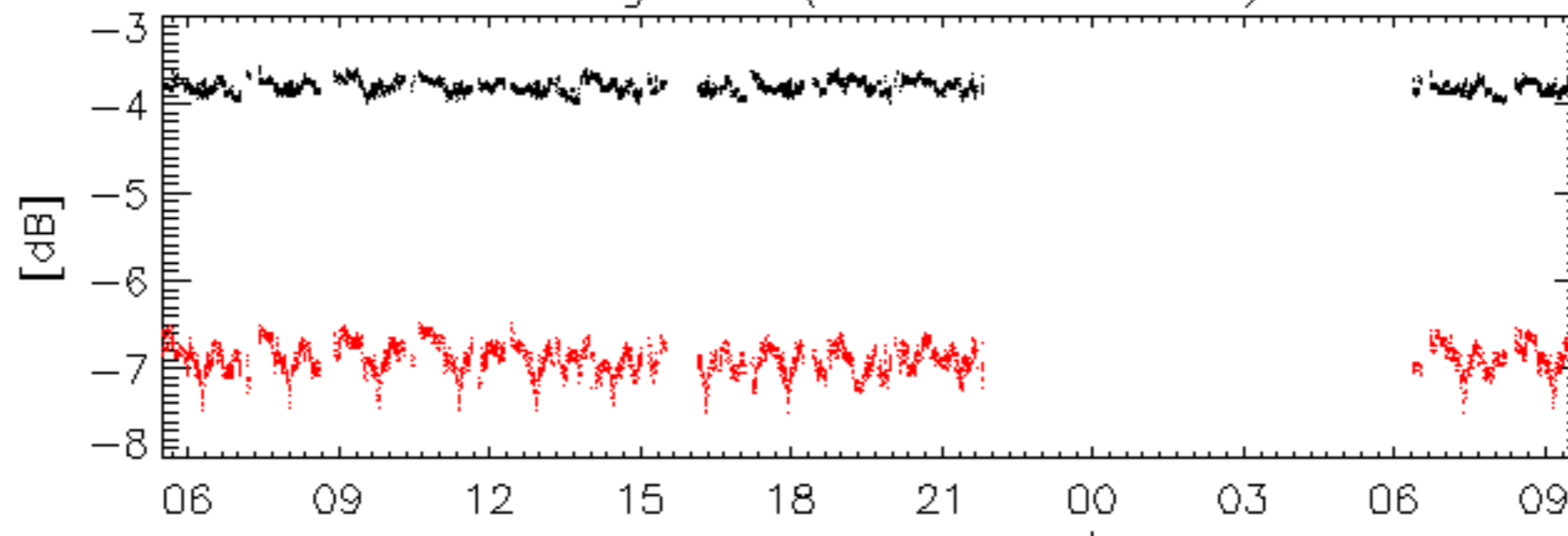
Average P2



Average P3

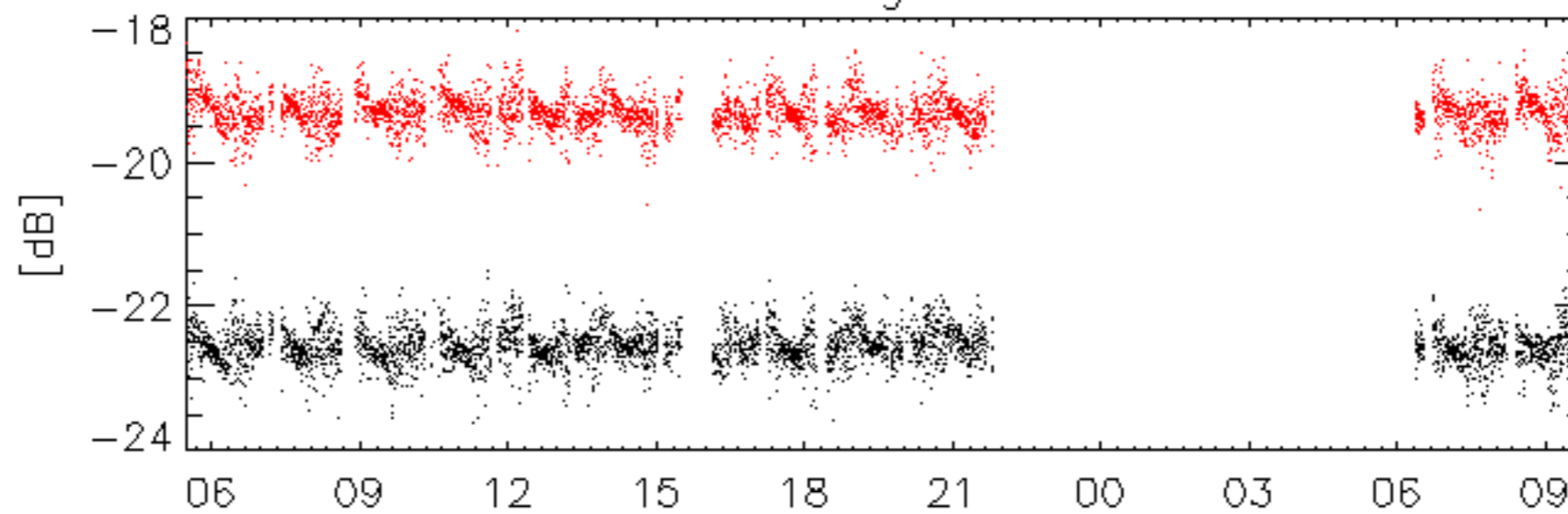


Average P1 (row 3 & row 10)



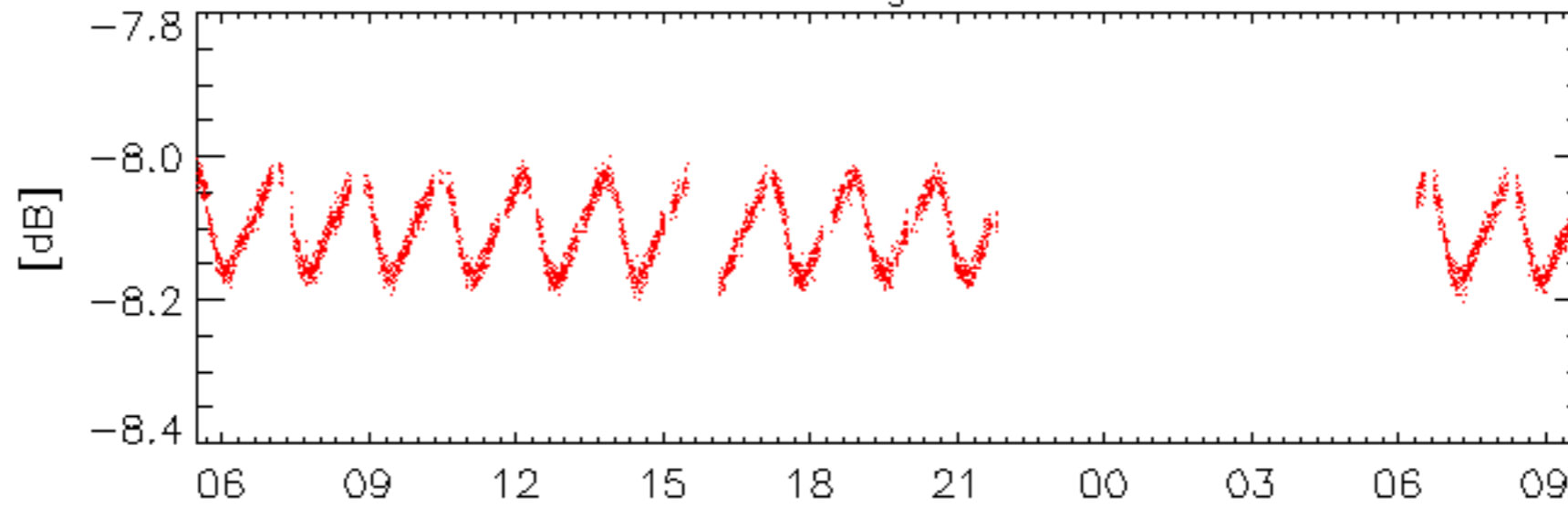
01-Sep

Average P2

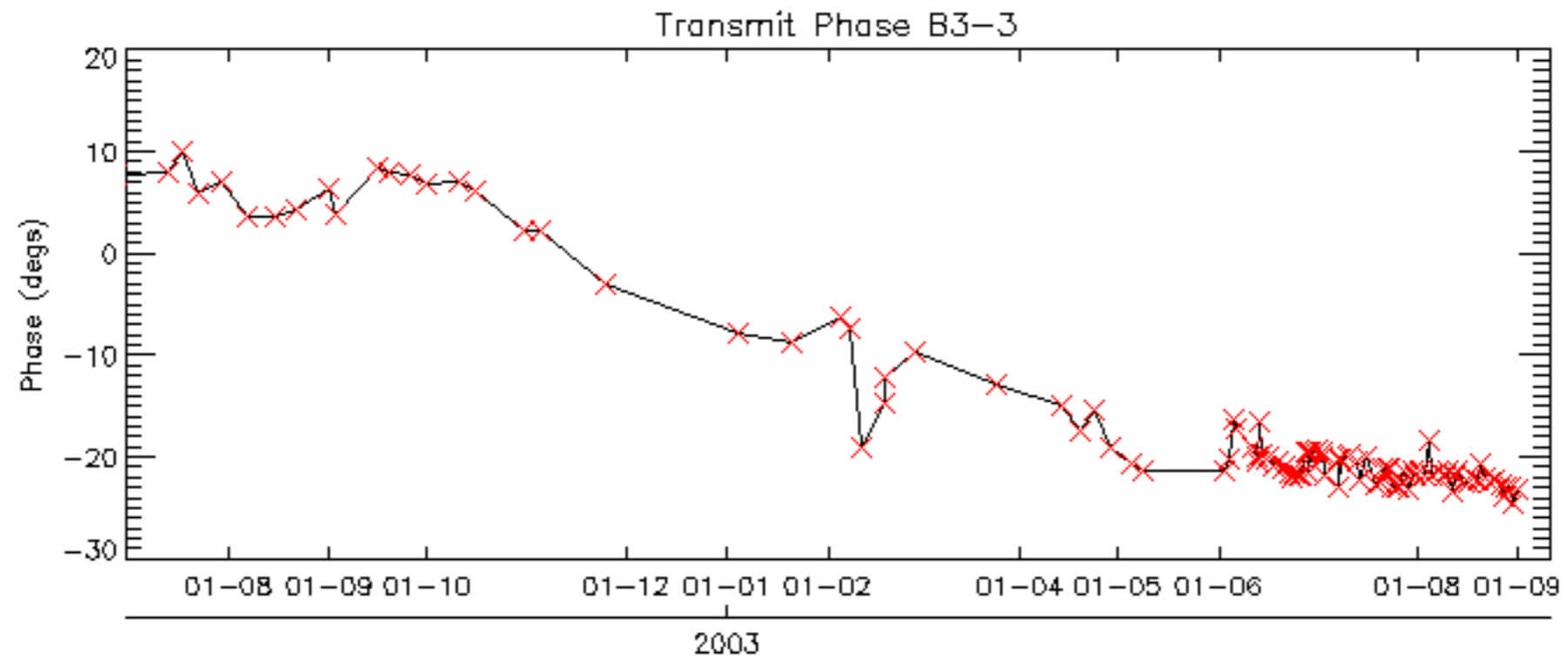


01-Sep

Average P3

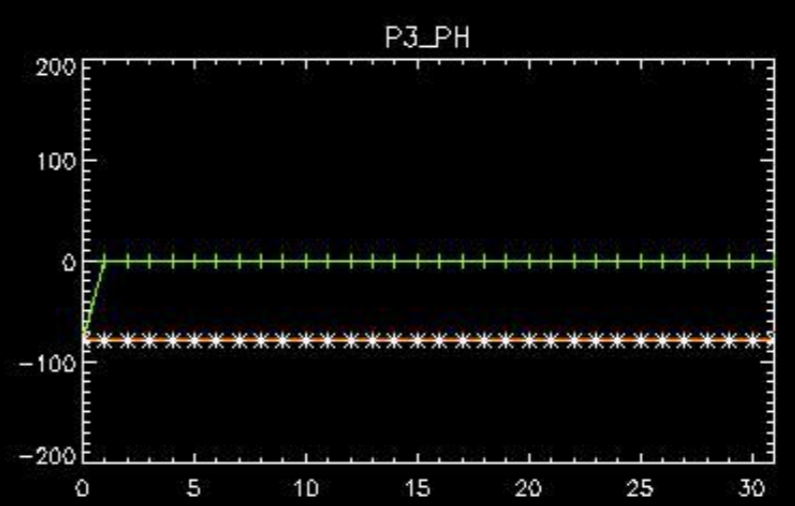
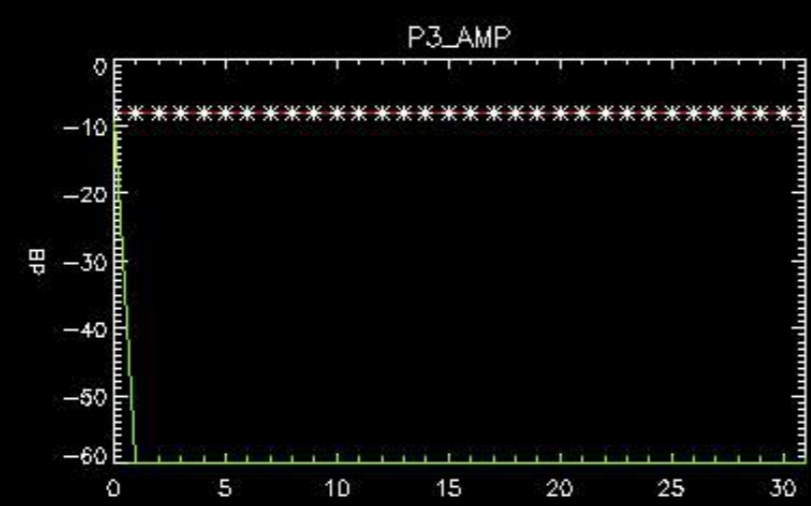
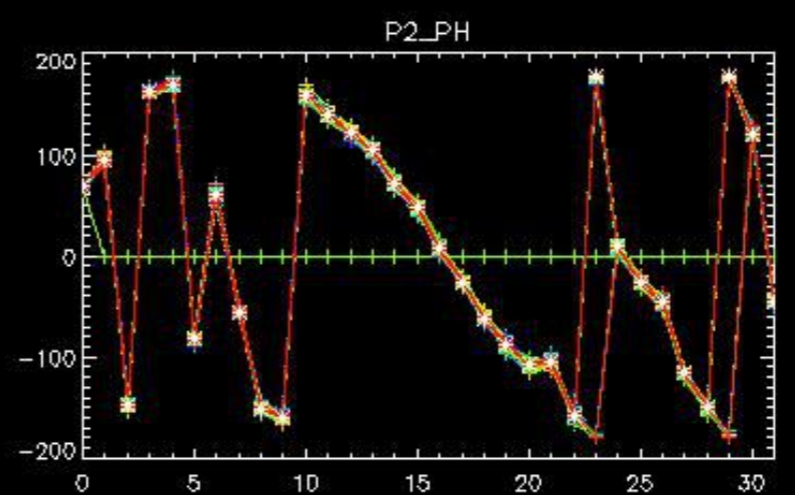
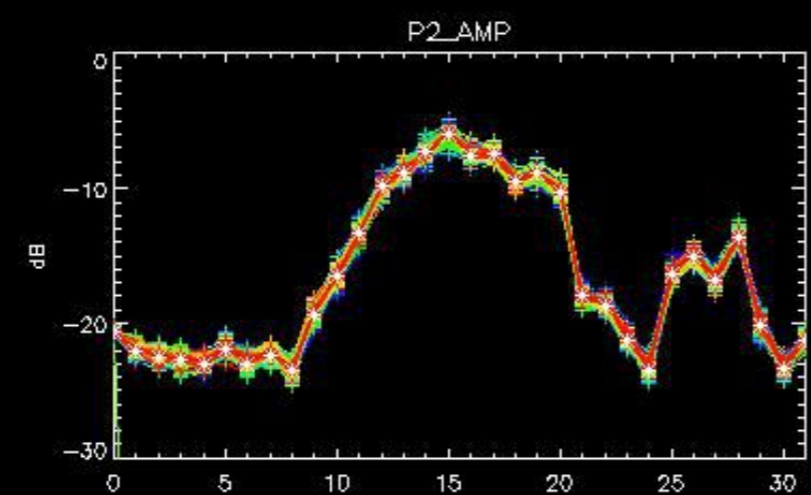
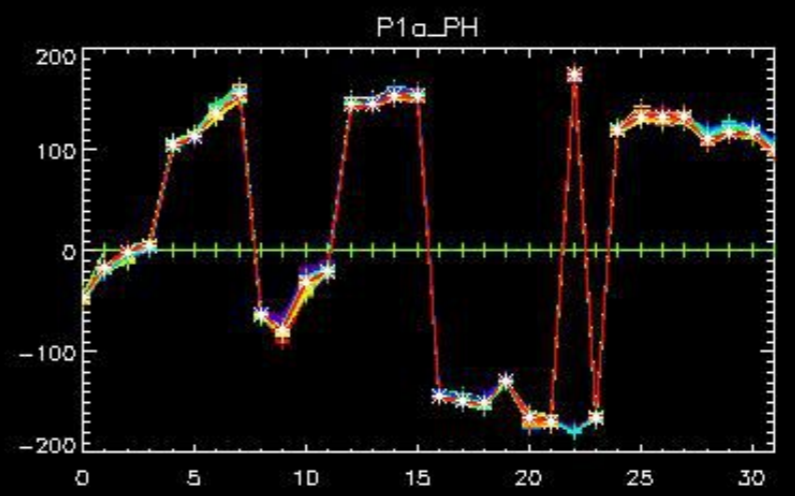
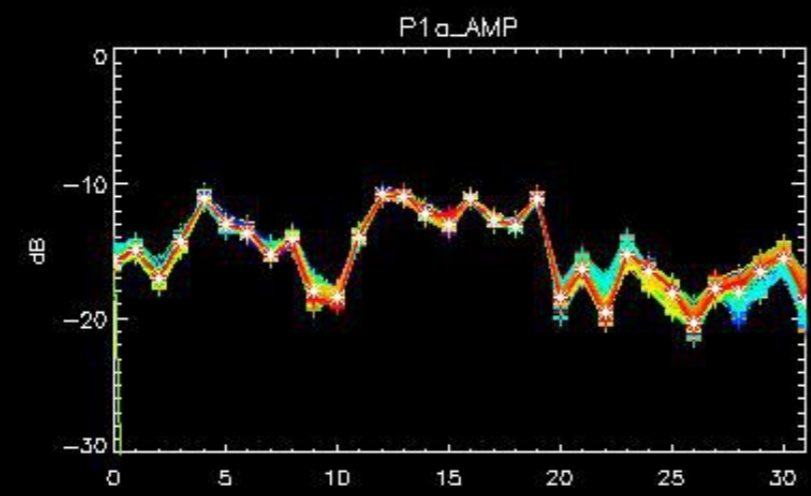
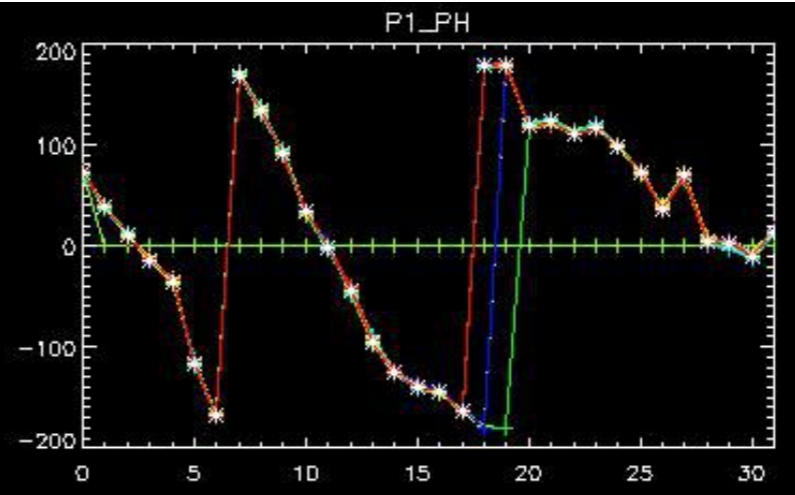
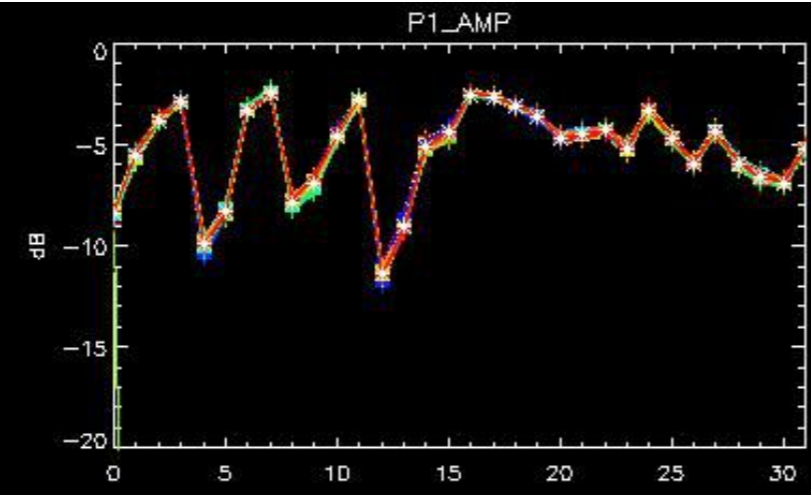


01-Sep



No anomalies observed on available browse products

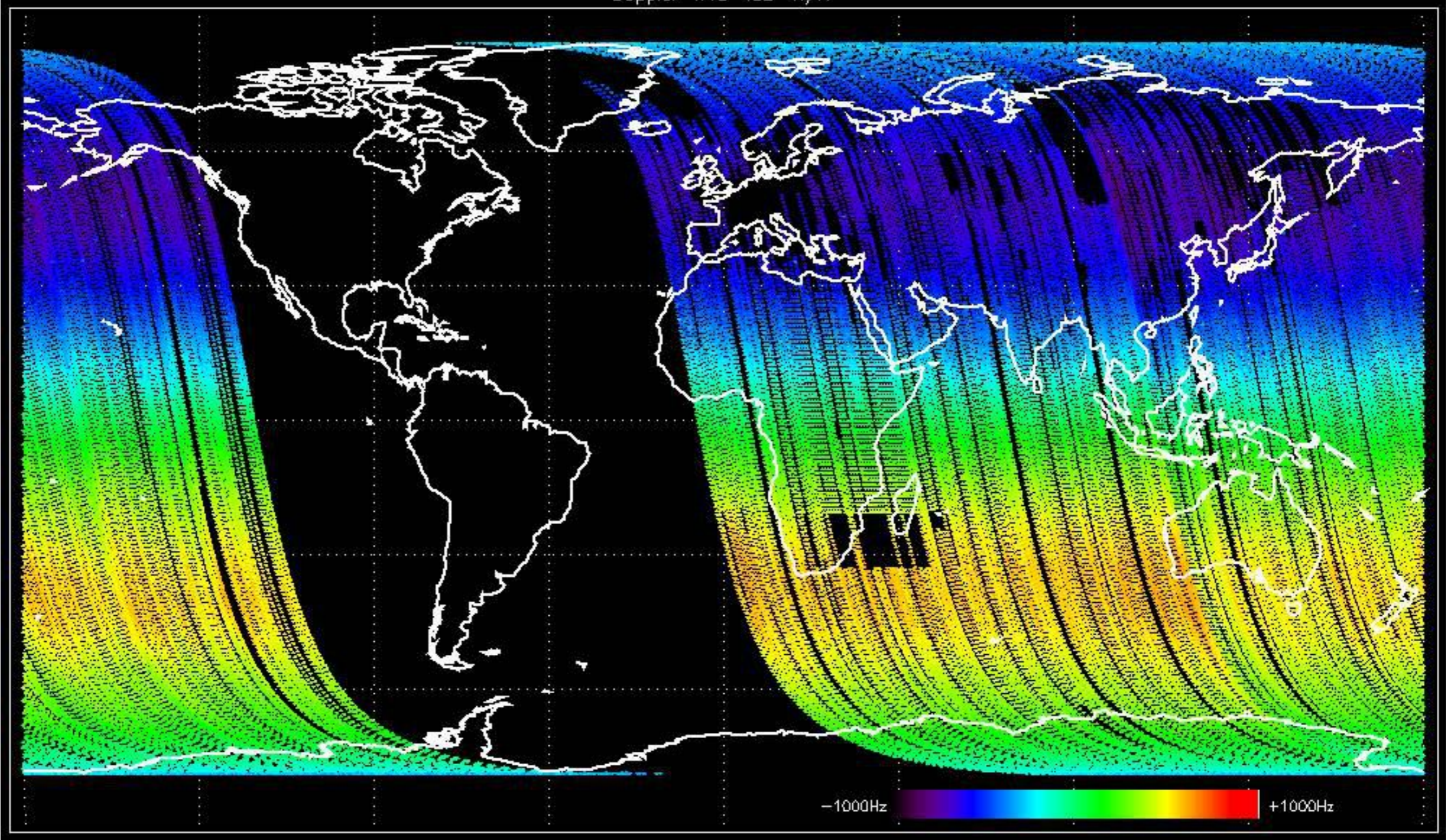
No anomalies observed. Stable P1, P2 and P3 cal pulses.



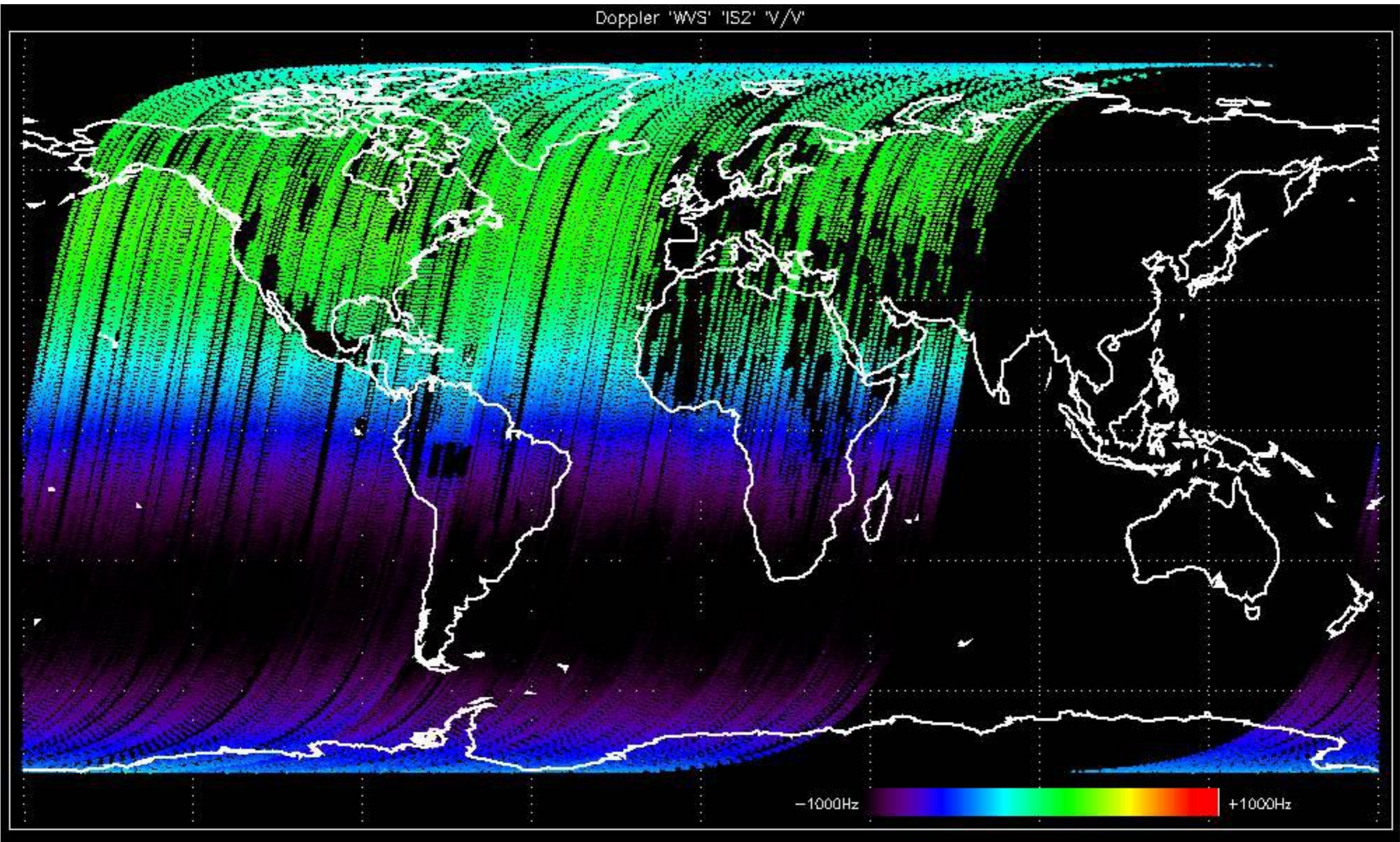
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

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

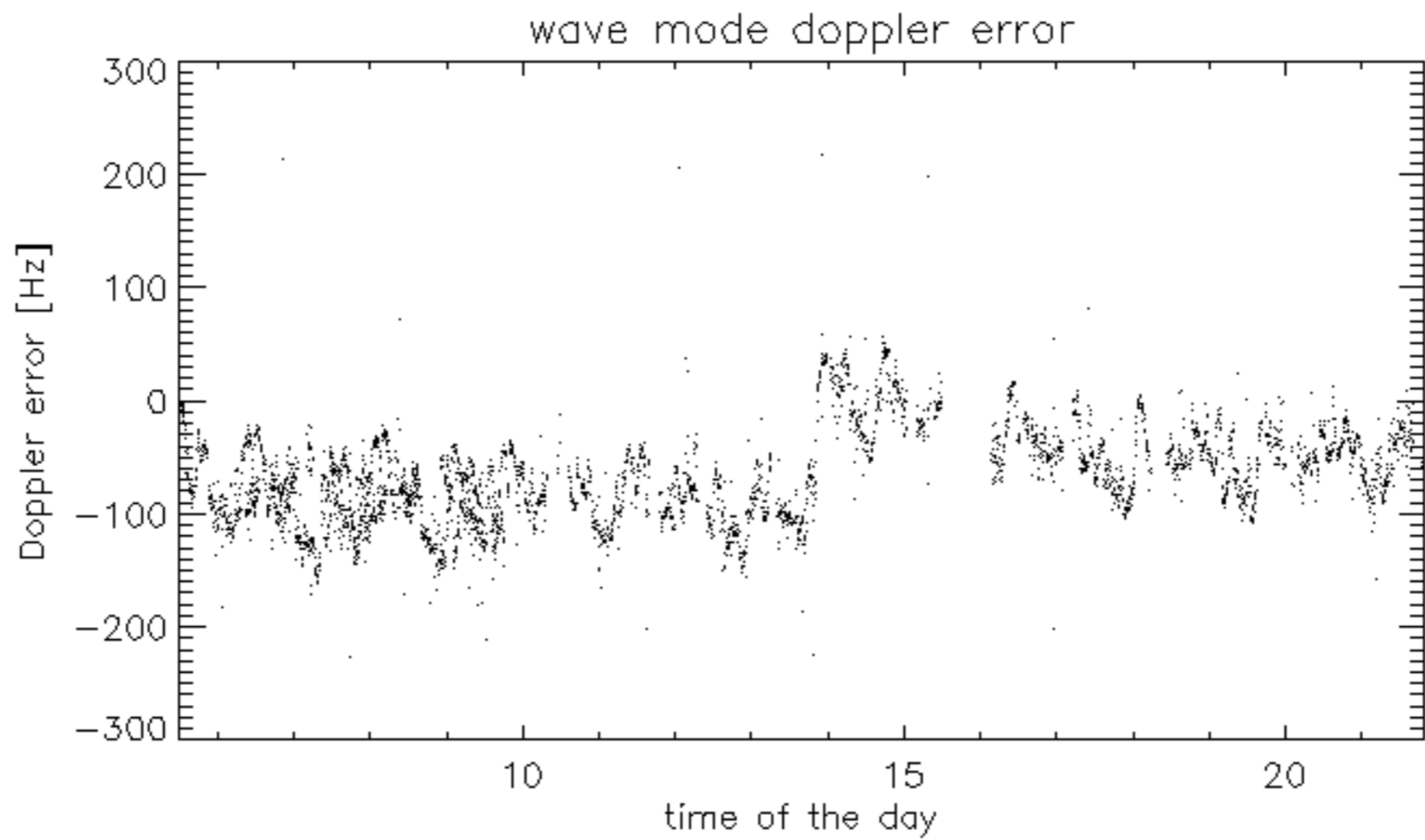
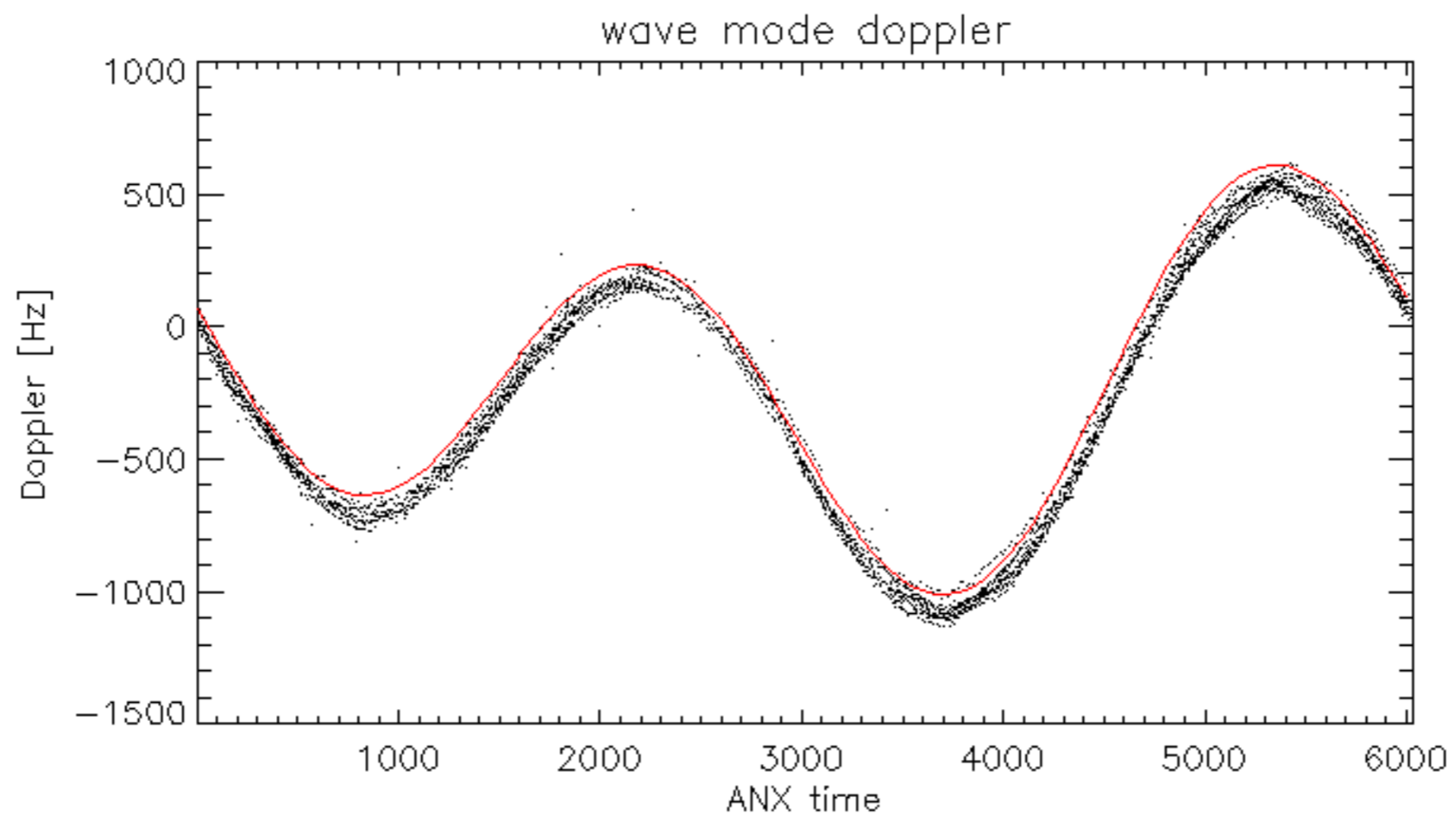
Doppler 'WVS' 'IS2' 'H/H'



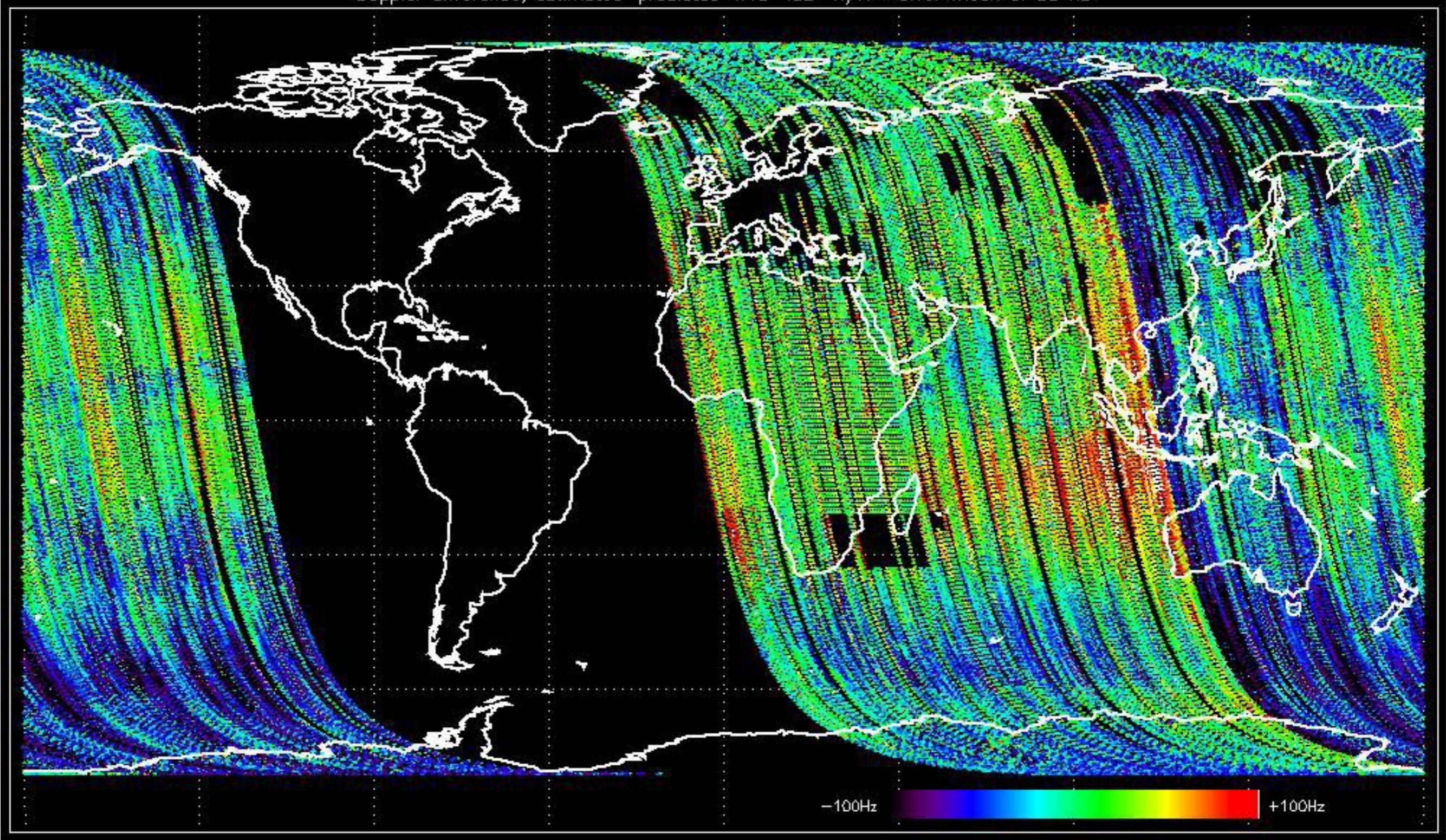
Doppler 'WVS' 'ISZ' 'V/V'



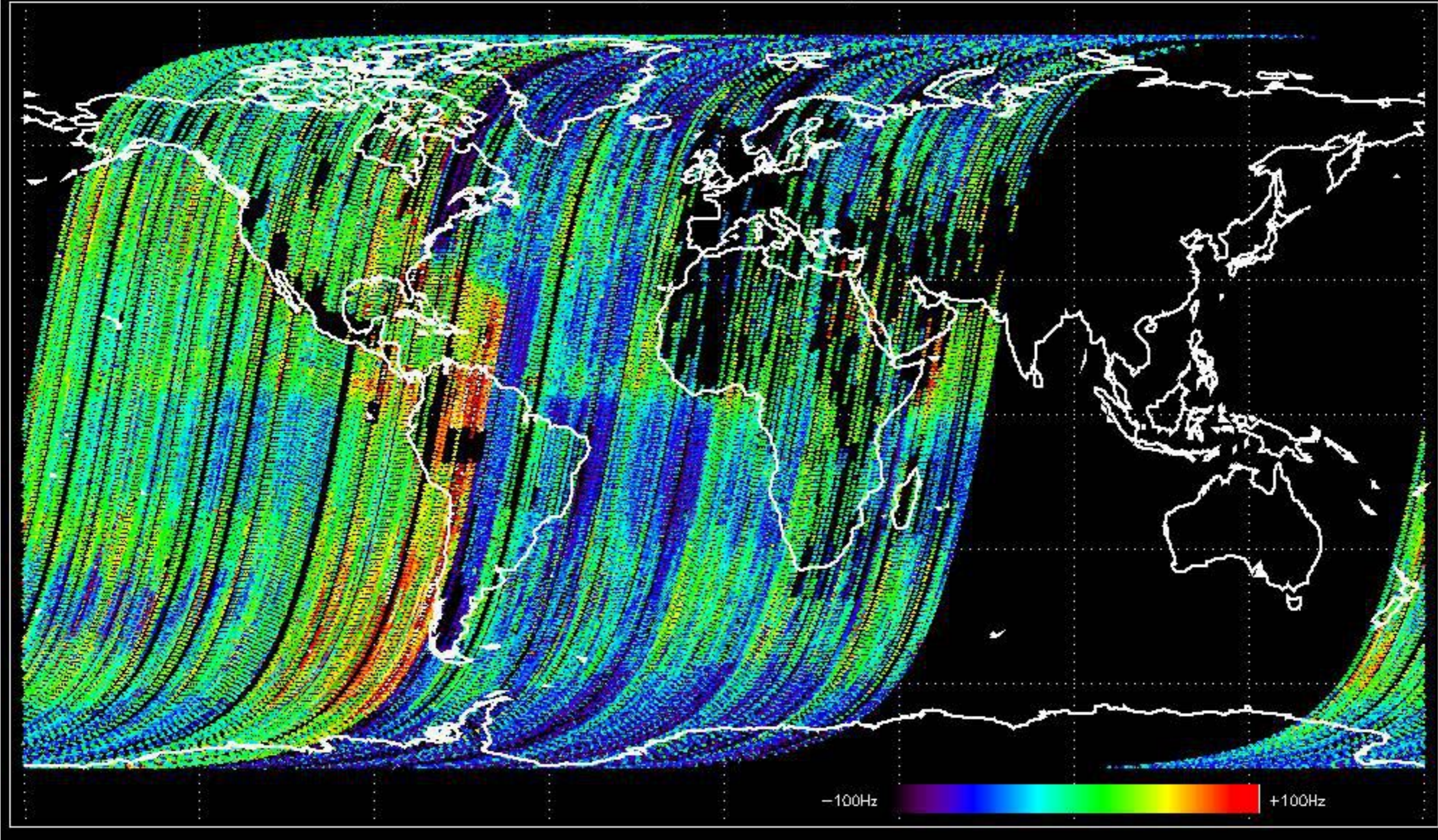
-1000Hz +1000Hz



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

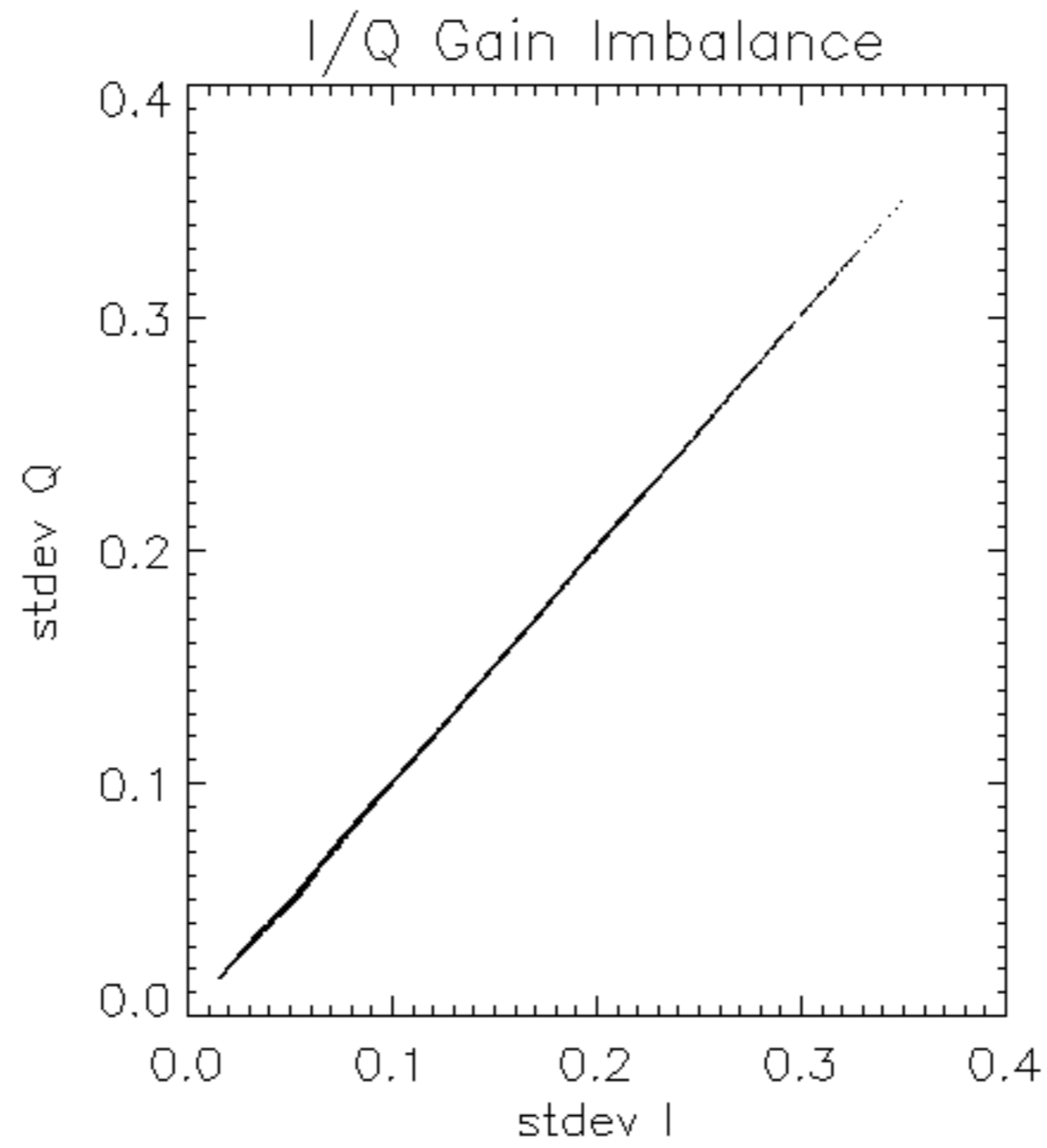


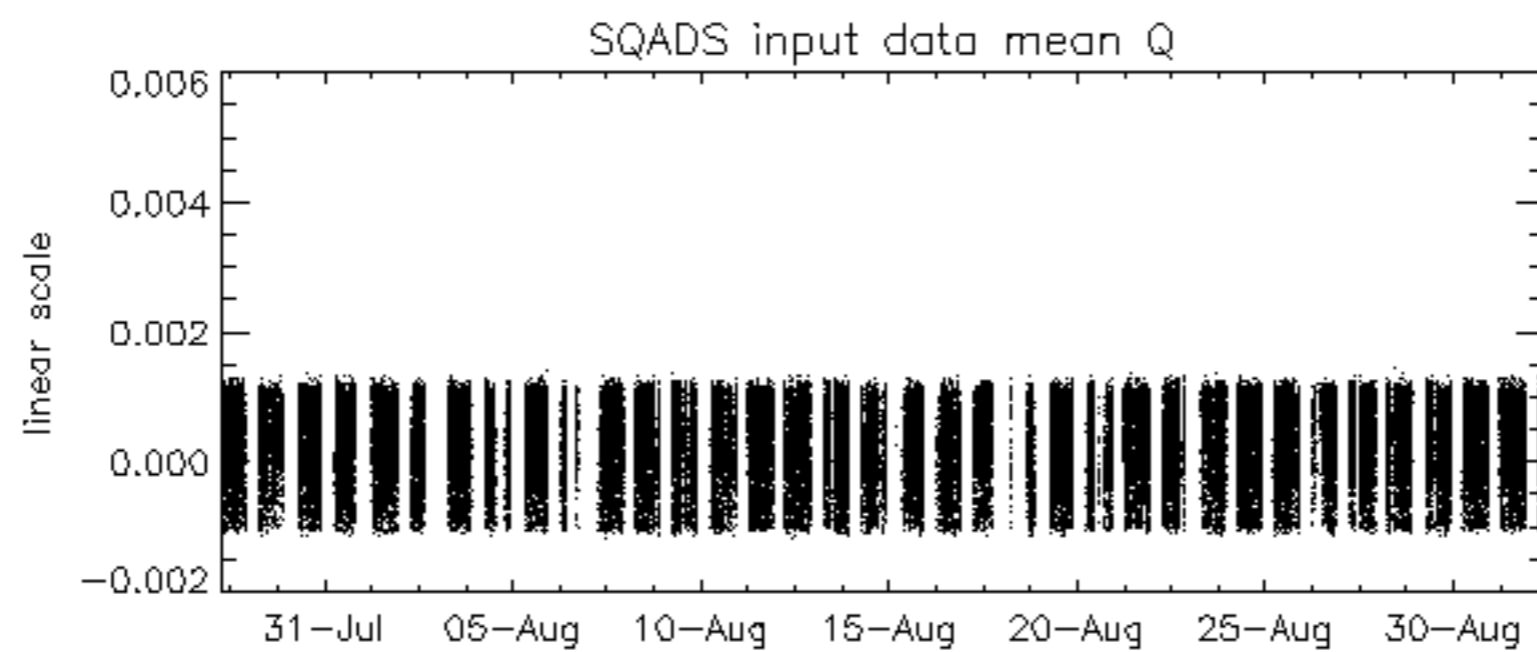
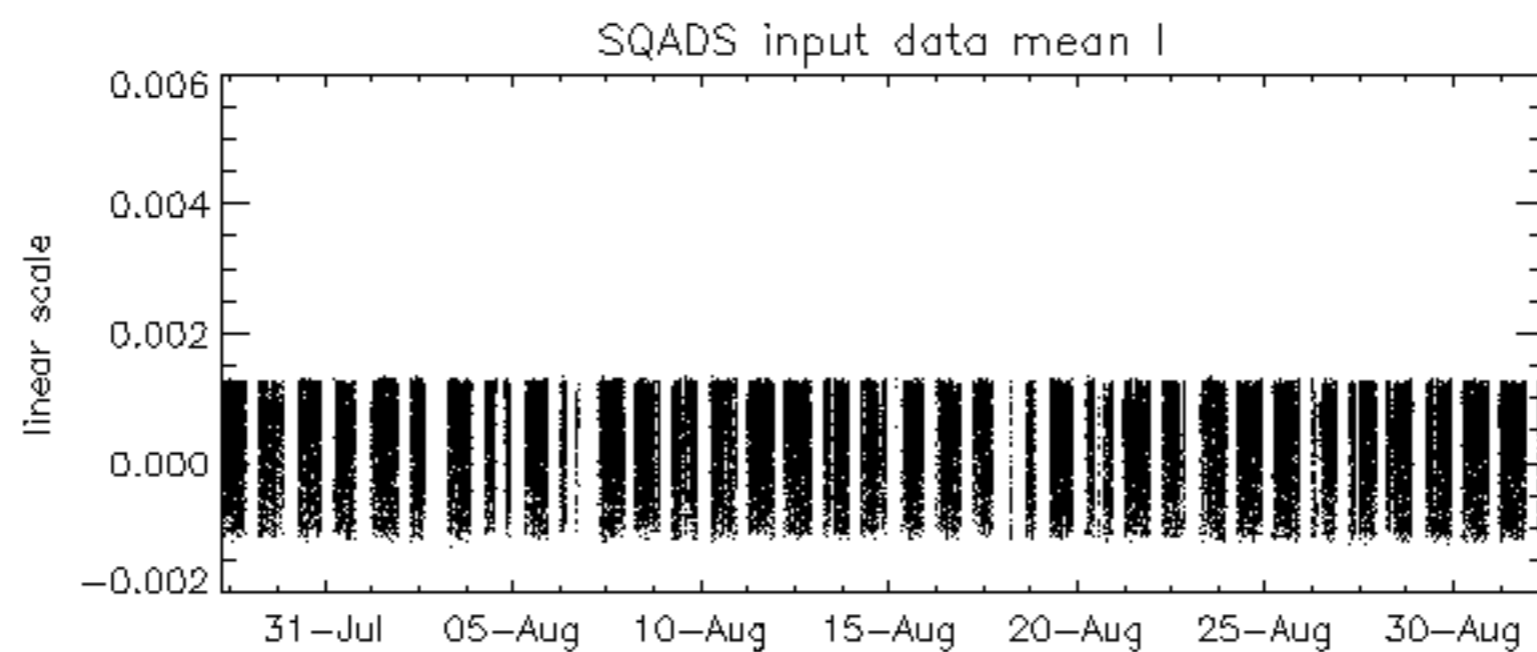
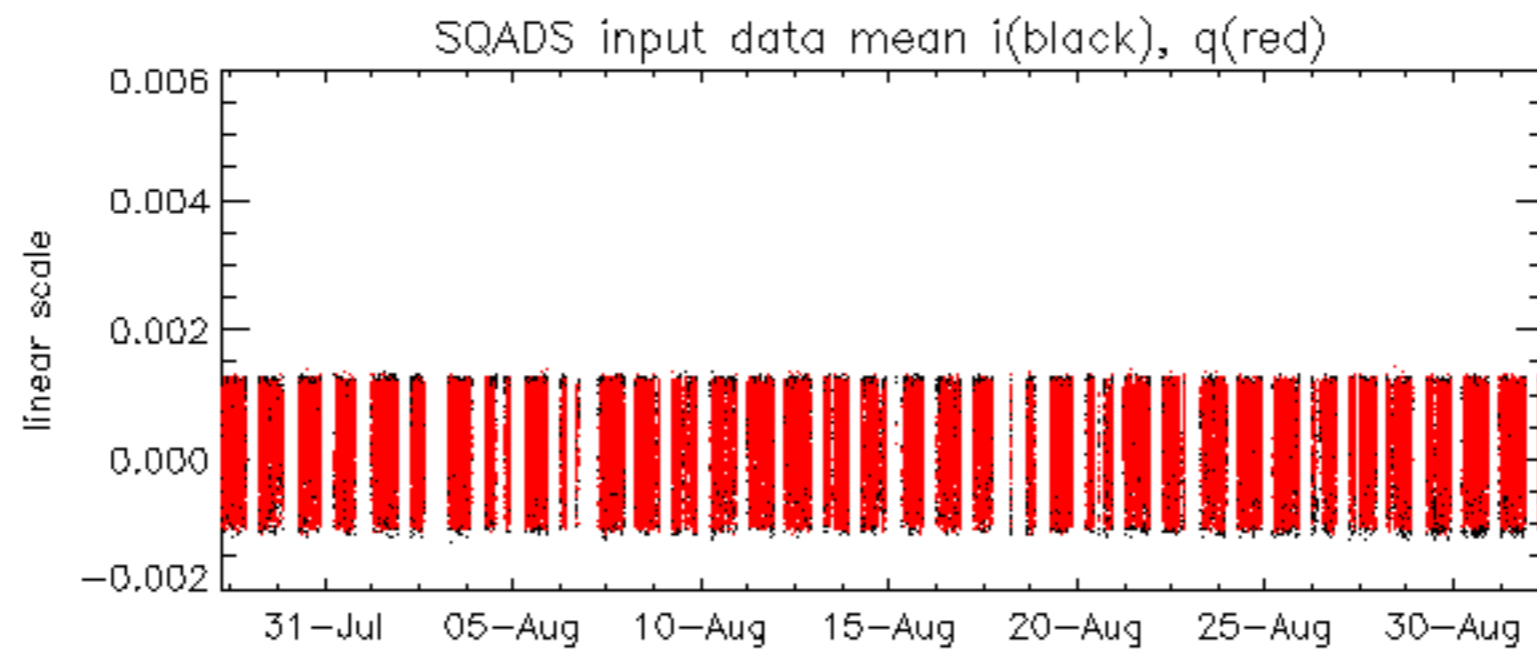
Doppler difference, estimated-predicted 'WS' 'IS2' 'V/V' -error mean of 53 Hz

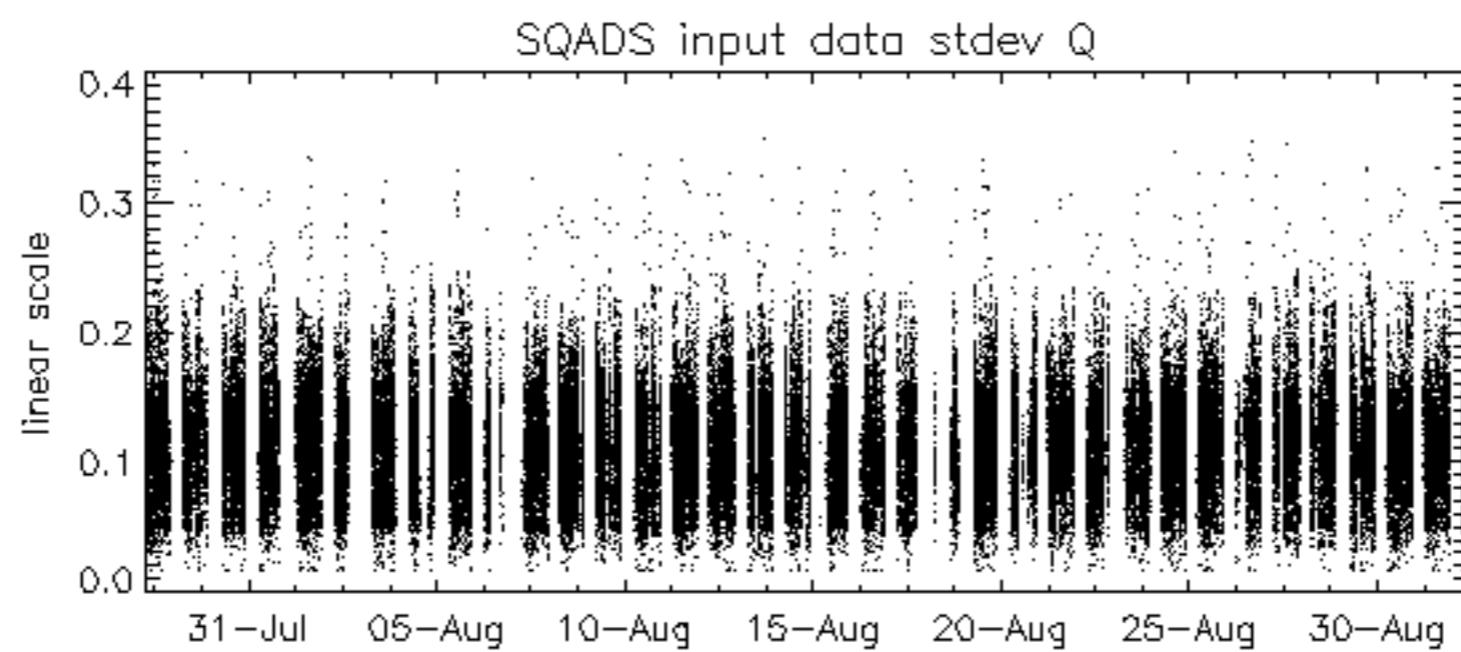
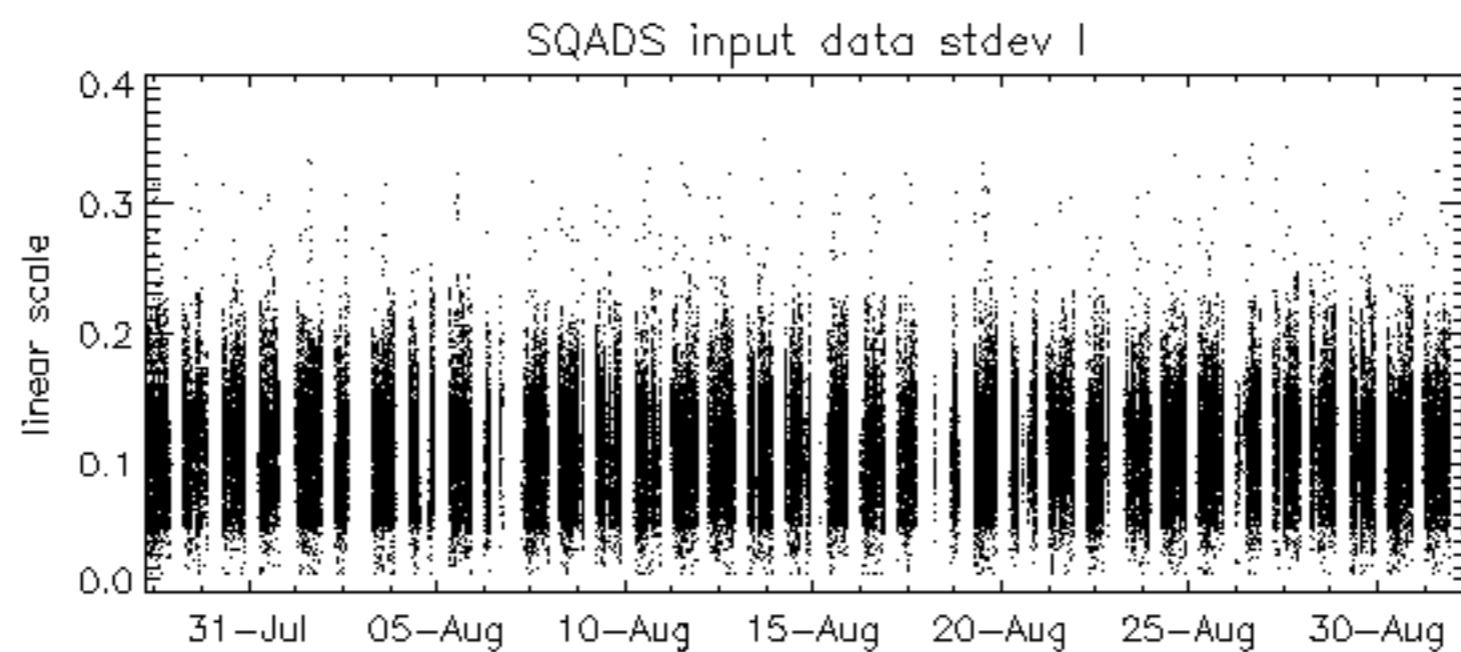
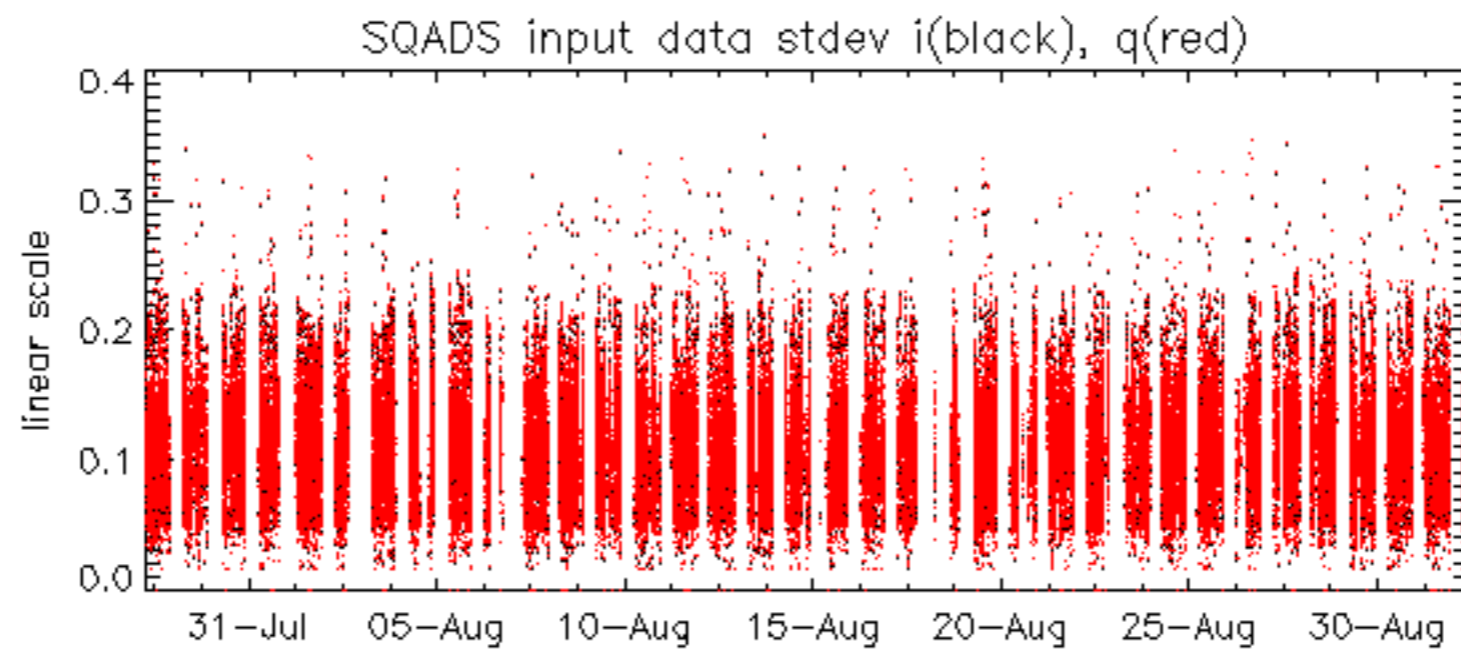


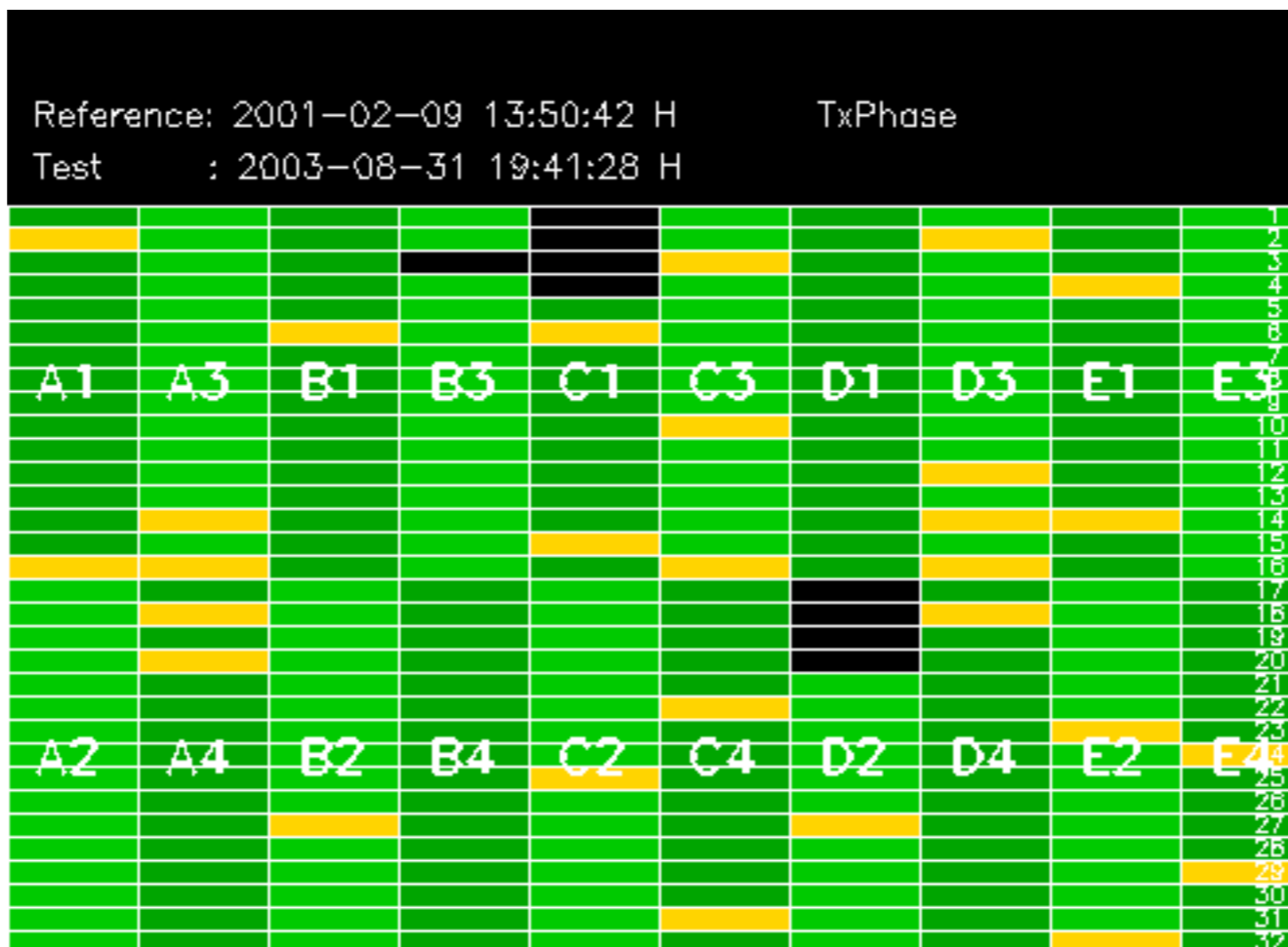
No anomalies observed on available MS products:

No anomalies observed.
Stable behaviour of raw data statistics.









No unavailabilities during the reported period.