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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

ASAR unavailabilities in the table below

Sub-system	Start	Stop	Planned
ASAR	2003-07-11 16:51:00	2003-07-11 16:57:24:00	Yes

2.2 - Browse Visual Inspection

No anomalies observed on EOLI catalogue.

2.3 - Data Analysis

Nominal behaviour after anomalies occurred on 10-Jul-2003.

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

3 - Module Stepping Mode

No MS product for the reported period.









Analysis performed on MS data (H and V polarization) acquired on 11-Jul-2003.

No anomalies observed.











Polarisation	Start Time
V	20030711 194554
H	20030711 194414

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 after the anomalies occurred on 10-Jul-2003, as shown in the figure below (paragraph 4.1)

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
8	mean	-2.44225	-22.5038	-8.10334
	stdev	0.0136906	0.0671599	0.00252645
24	mean	-5.14012	-21.2268	-8.10334
	stdev	0.0147253	0.0577264	0.00252645



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
8	mean	-2.44743	-22.5332	-8.10606
	stdev	0.0130756	0.0682982	0.00300296
24	mean	-5.15730	-21.2026	-8.10606
	stdev	0.0133549	0.0572537	0.00300296



4.3 - cal pulses monitoring (all row)



5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000467470

	stdev	3.03378e-07
MEAN Q	mean	0.000304828
	stdev	3.12121e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.113131
	stdev	0.00159056
STDEV Q	mean	0.113226
	stdev	0.00162134



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

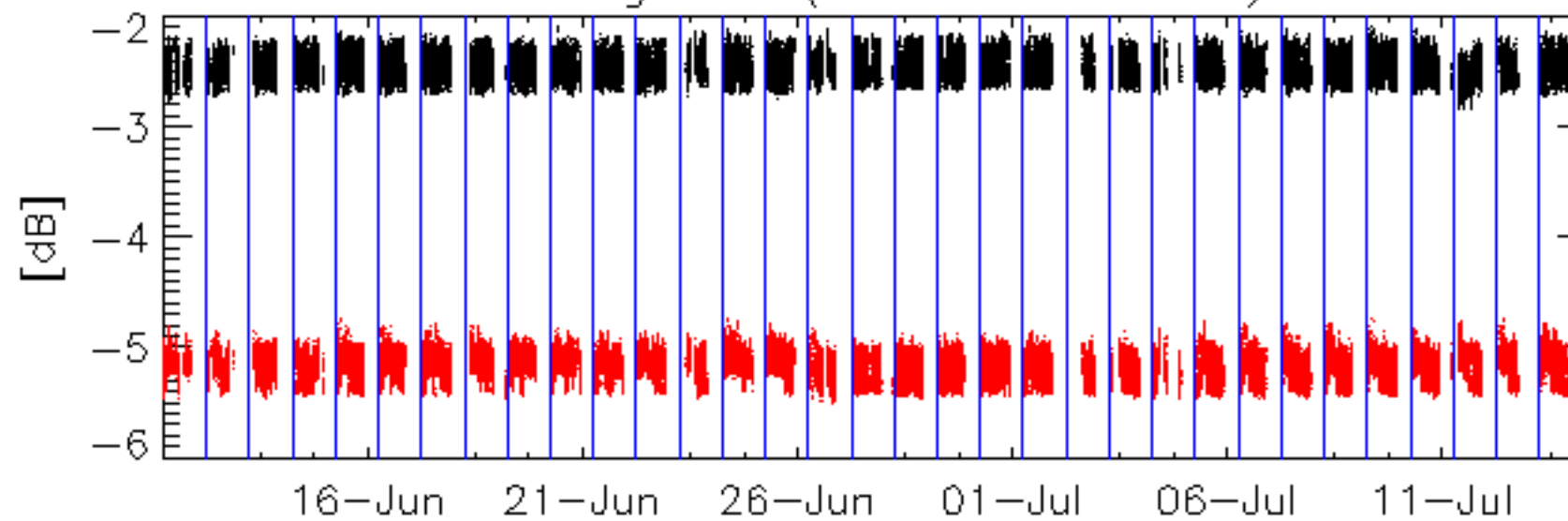
Descending

6.3 - Doppler evolution versus ANX

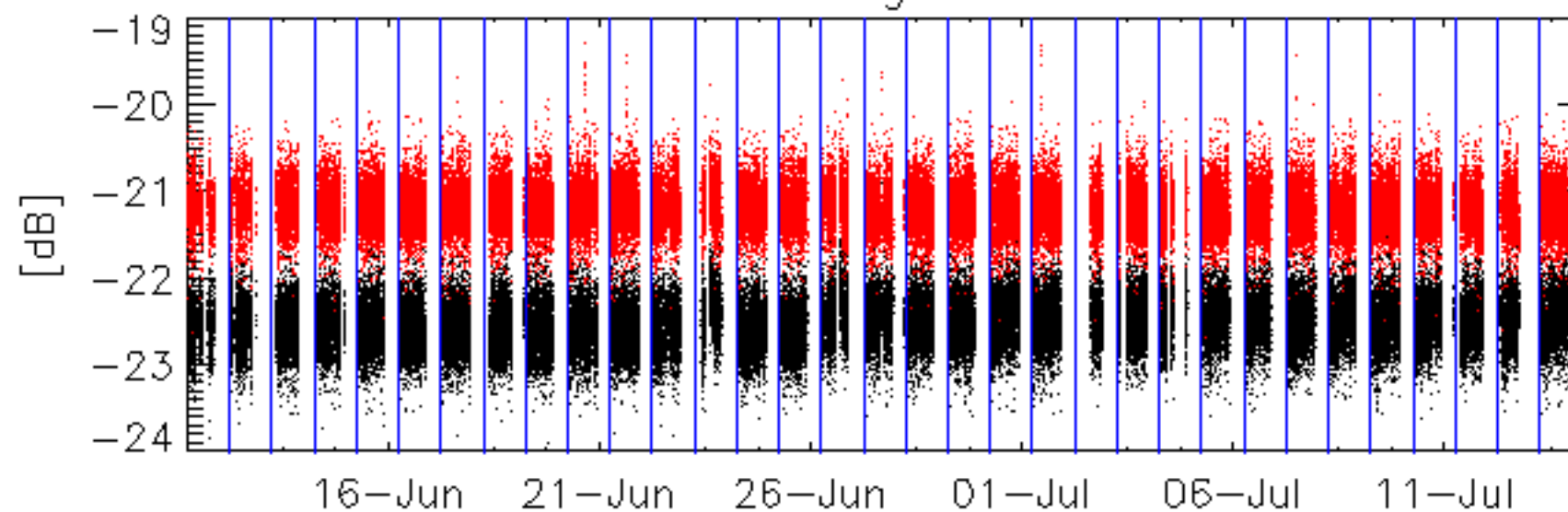
Evolution Doppler error versus ANX



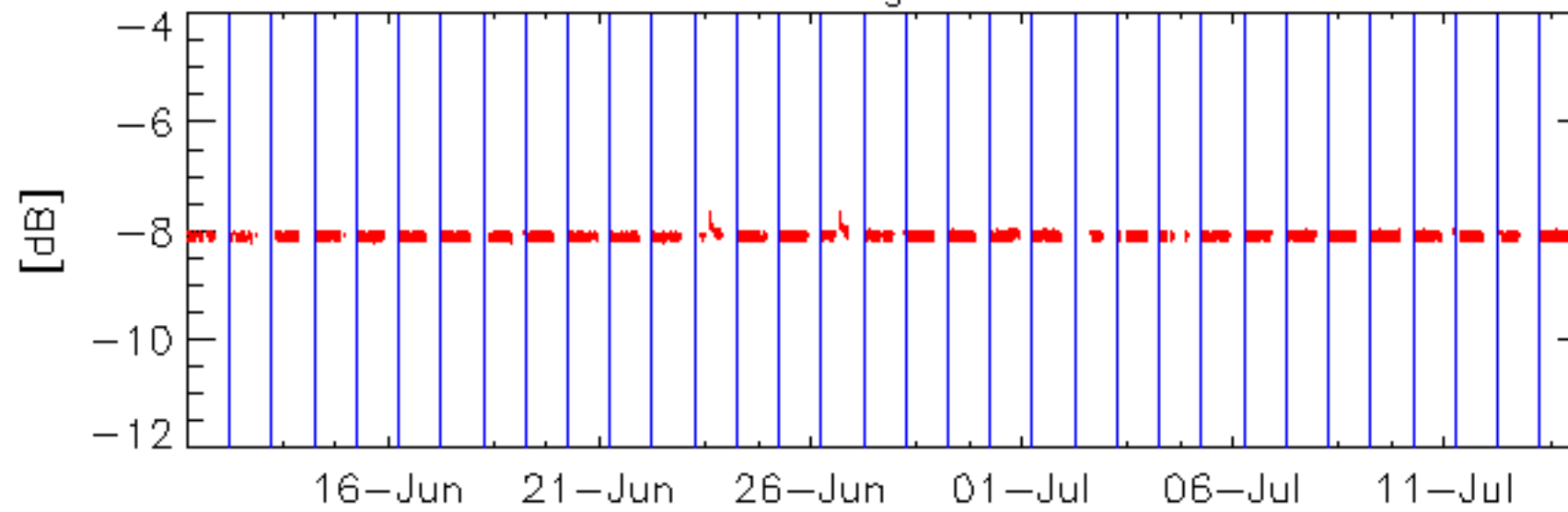
Average P1 (row 8 & row 24)

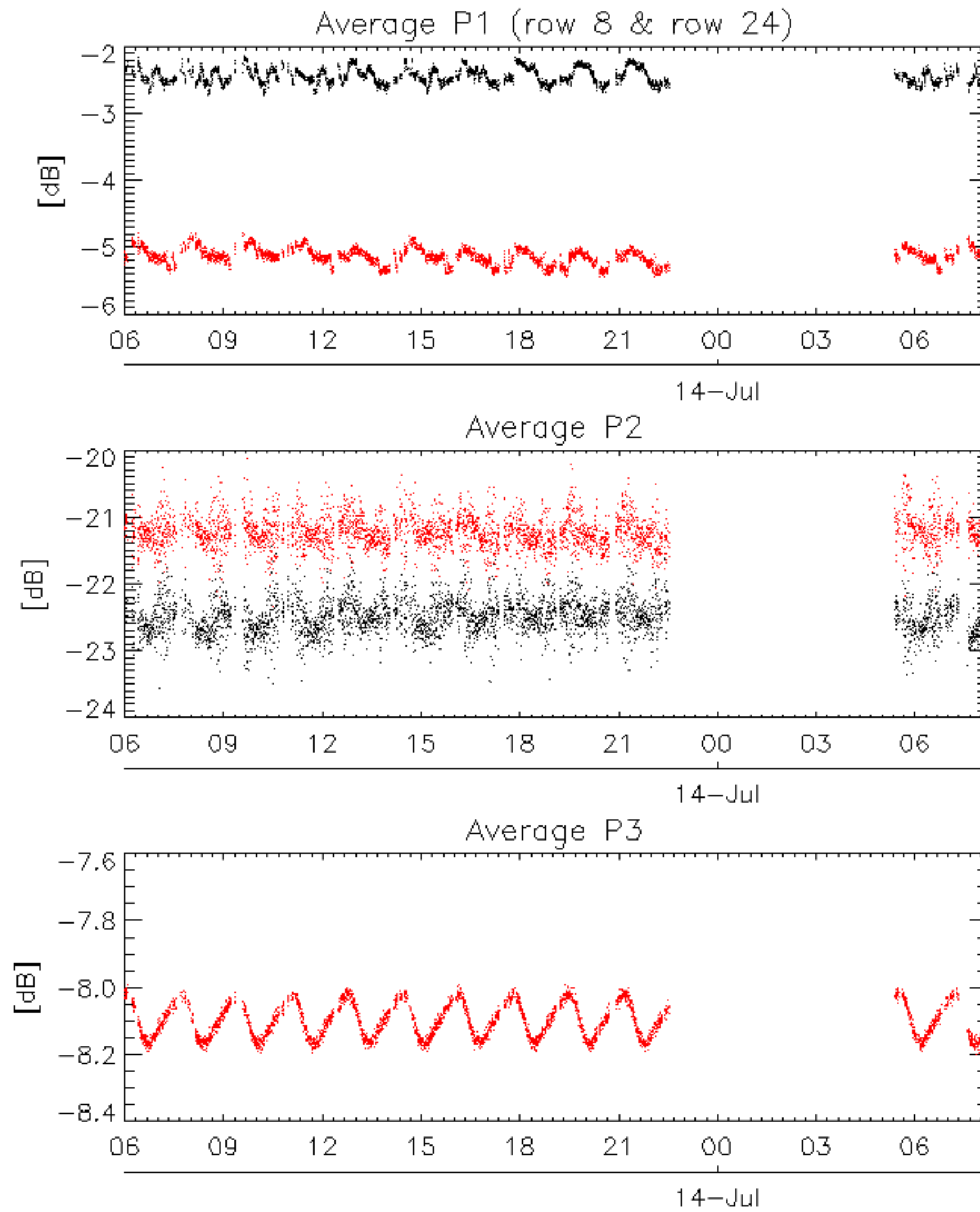


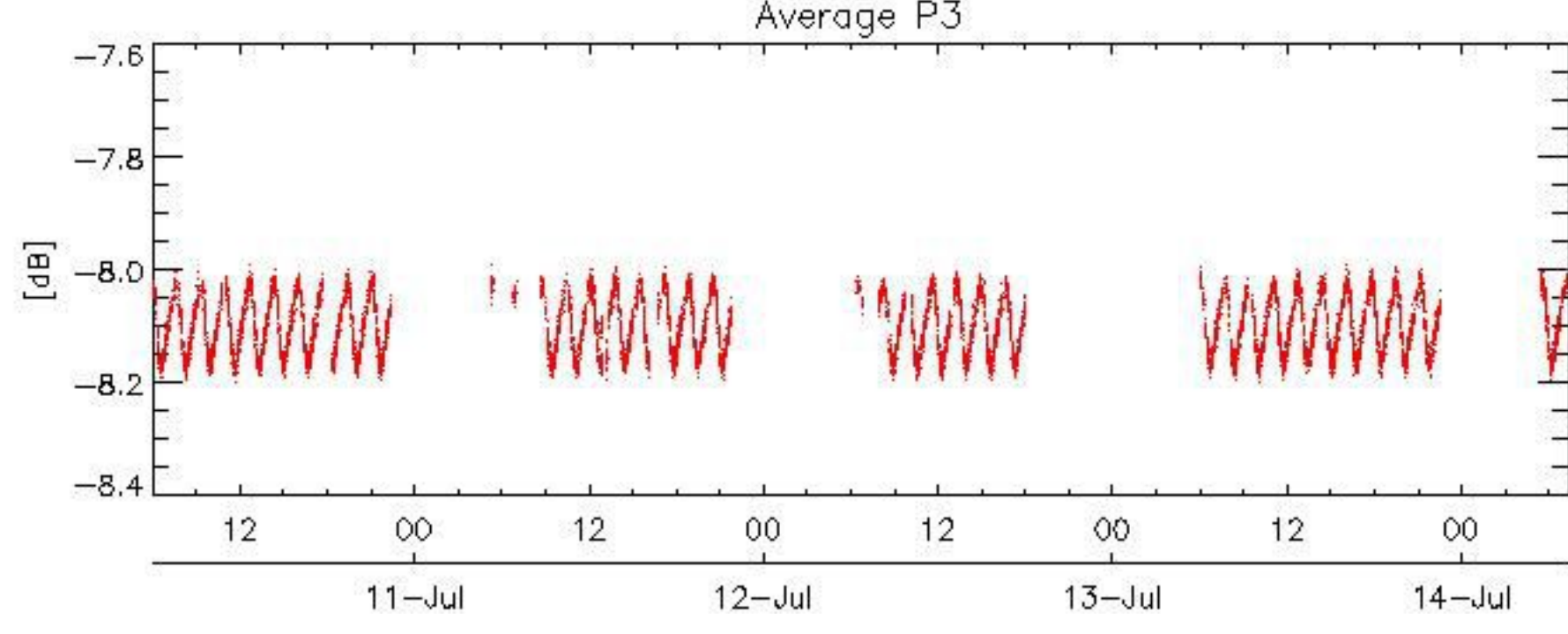
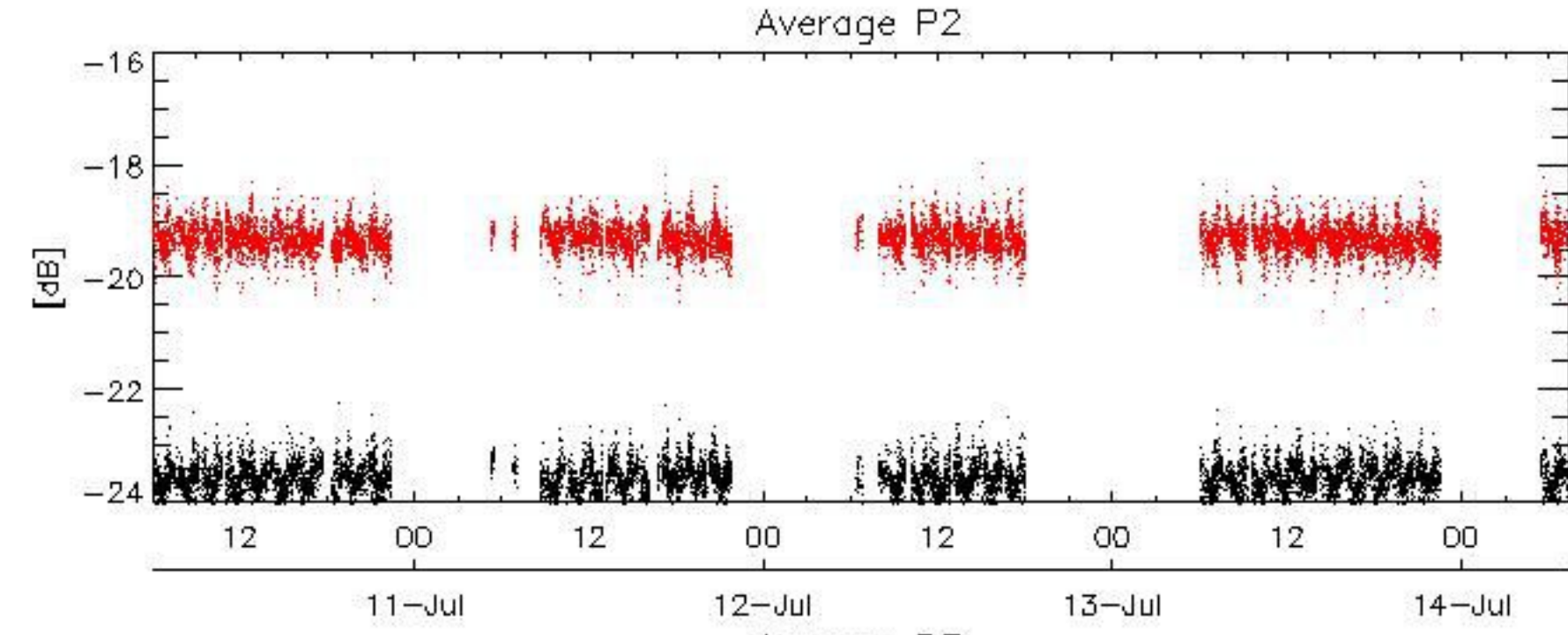
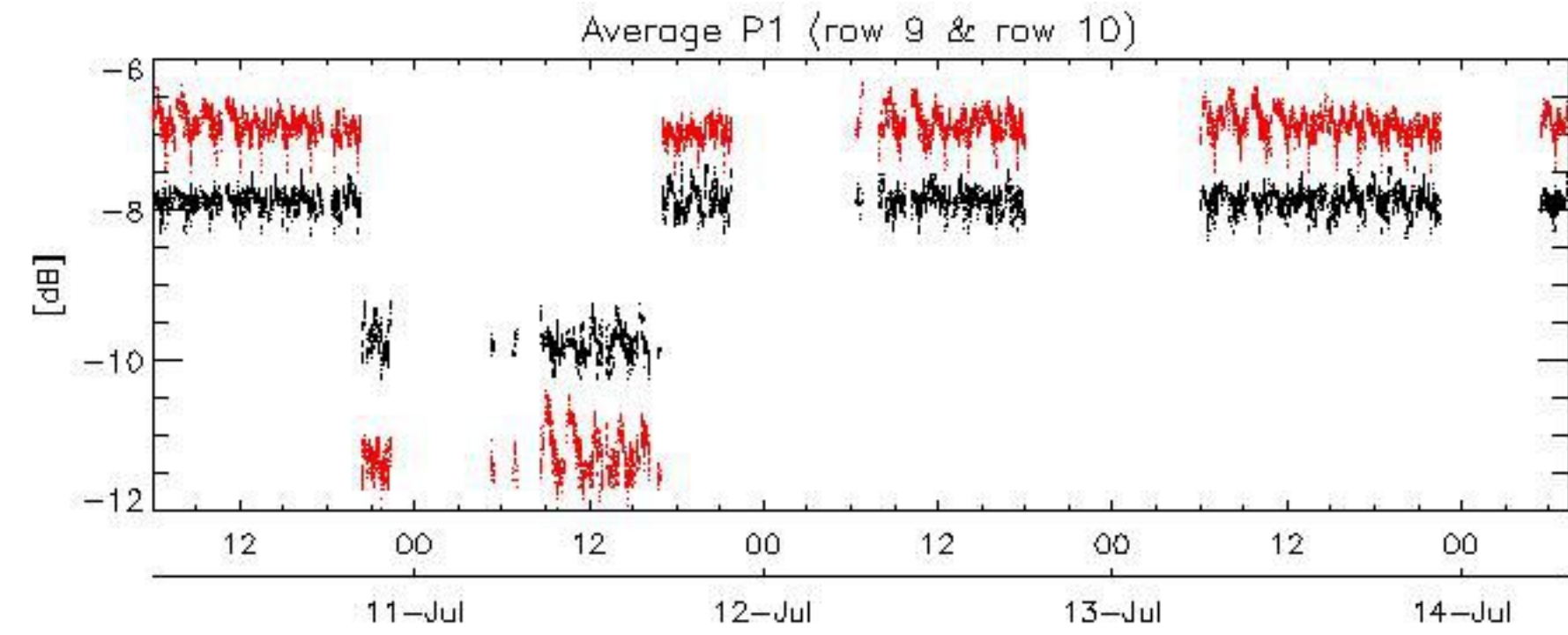
Average P2



Average P3

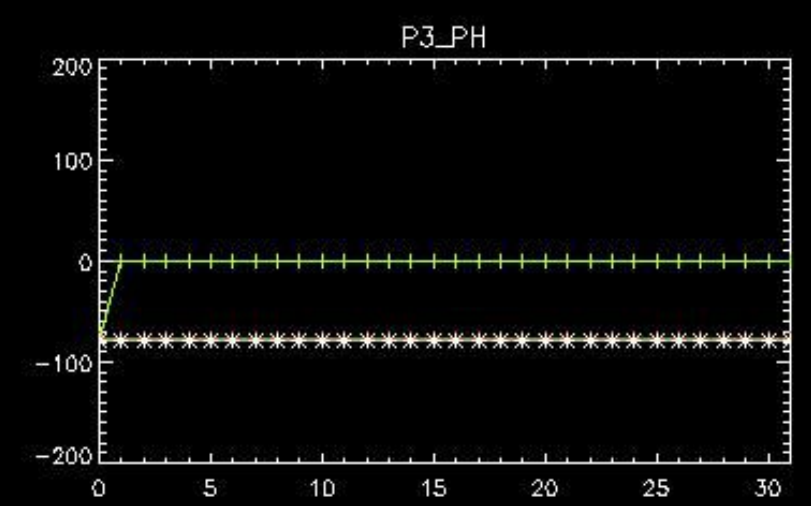
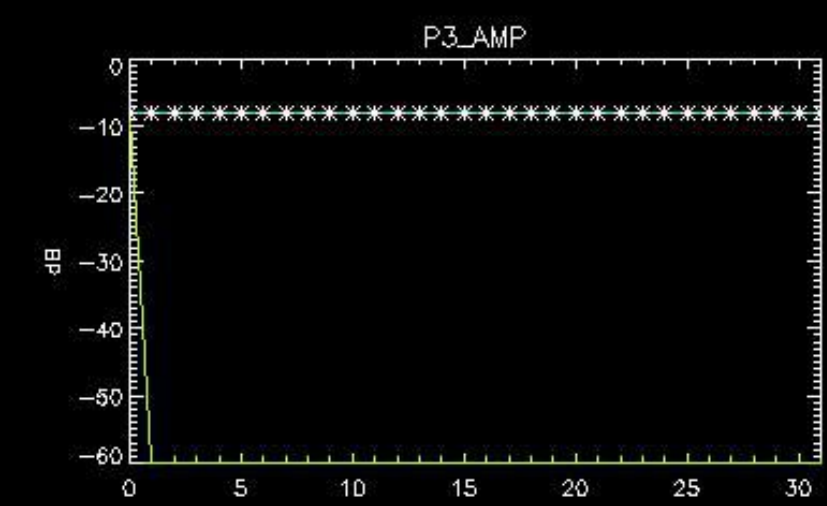
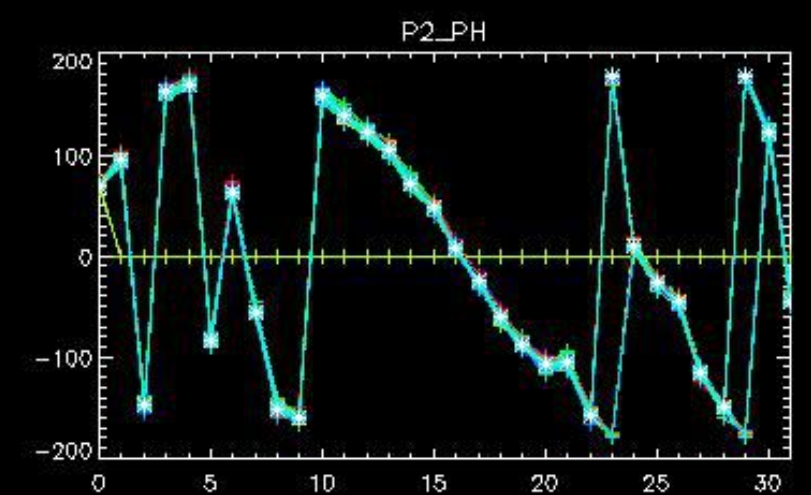
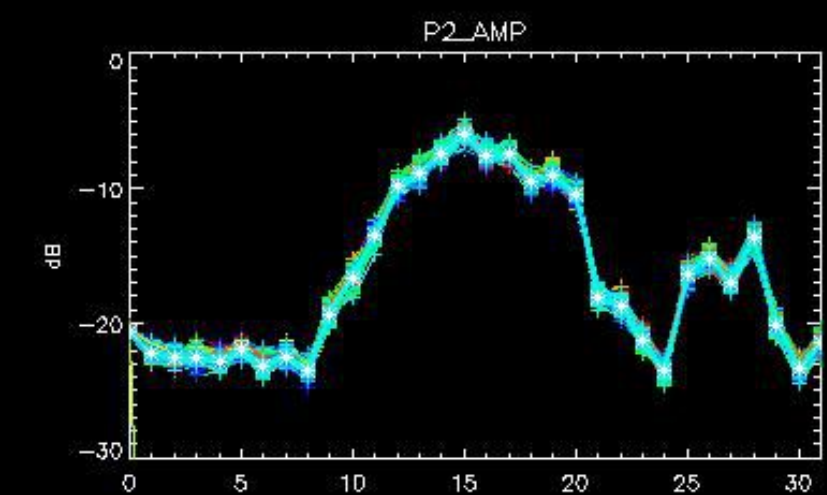
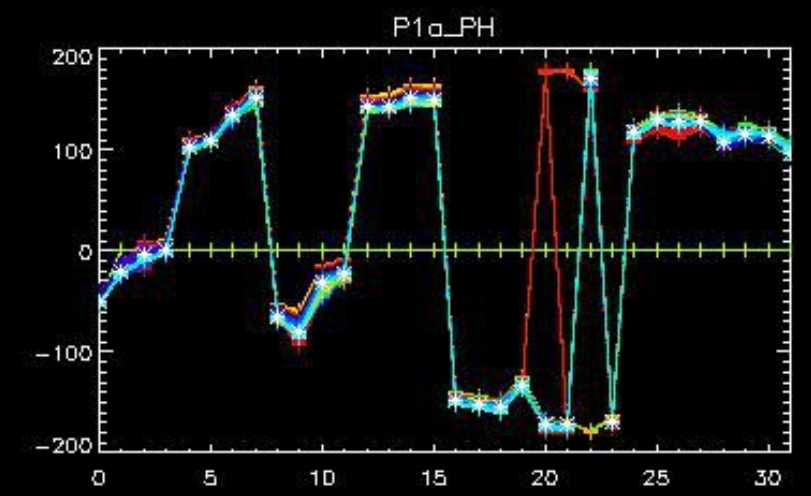
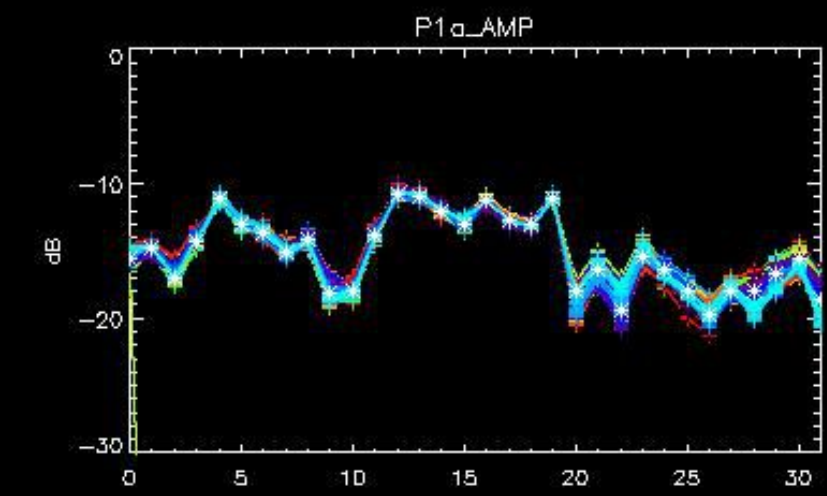
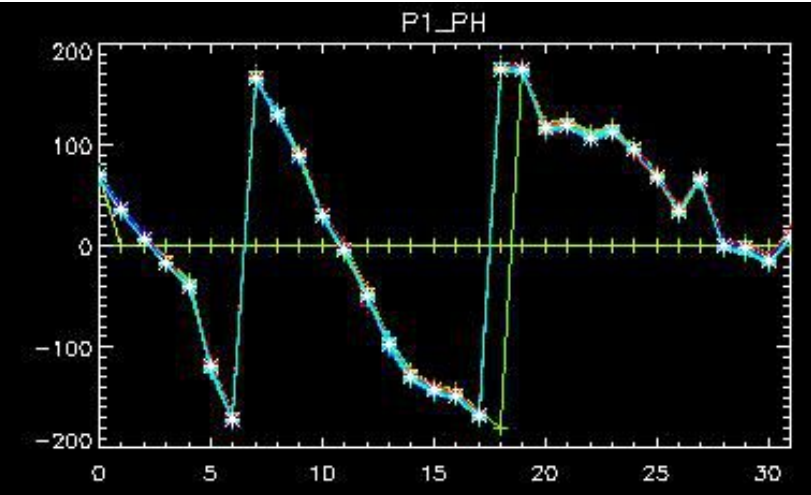
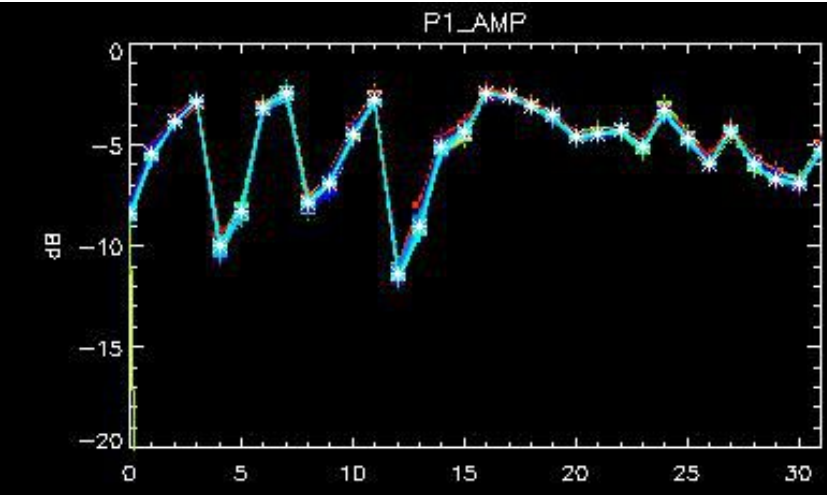






No anomalies observed on EOLI catalogue.

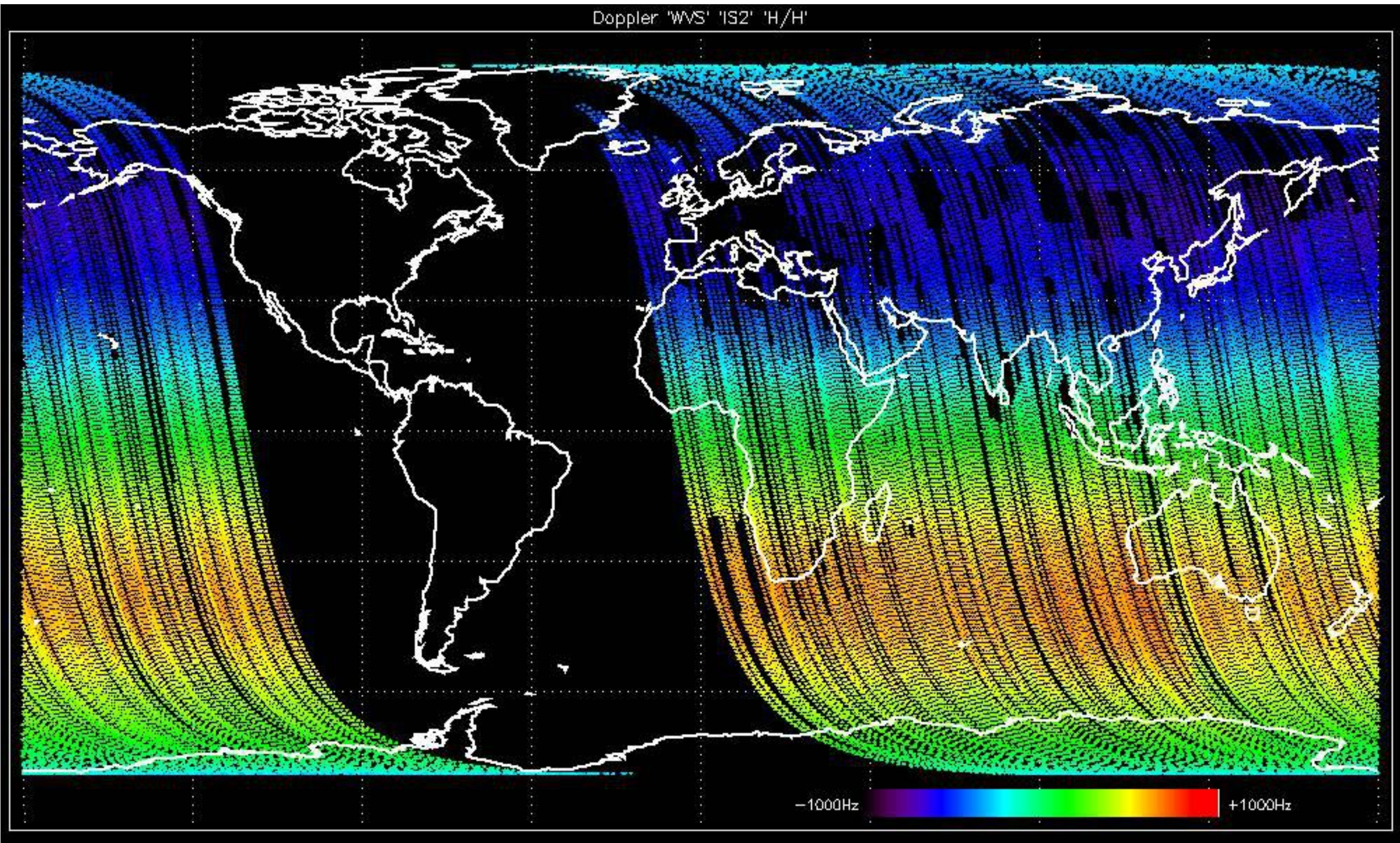
No anomalies observed.
Nominal behaviour after the anomalies occurred on 10-Jul-2003, as shown in the figure below (paragraph 4.1)



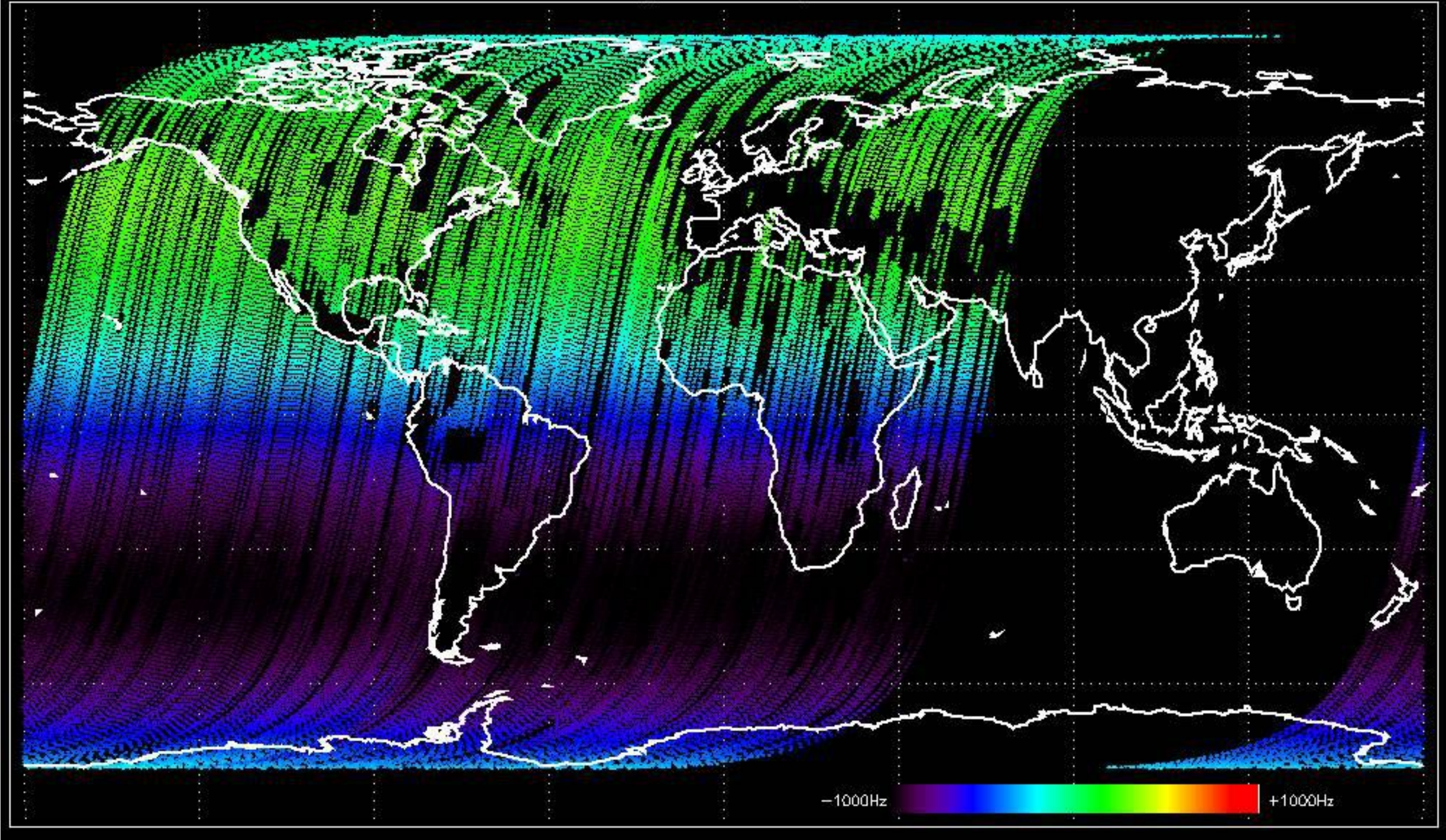
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

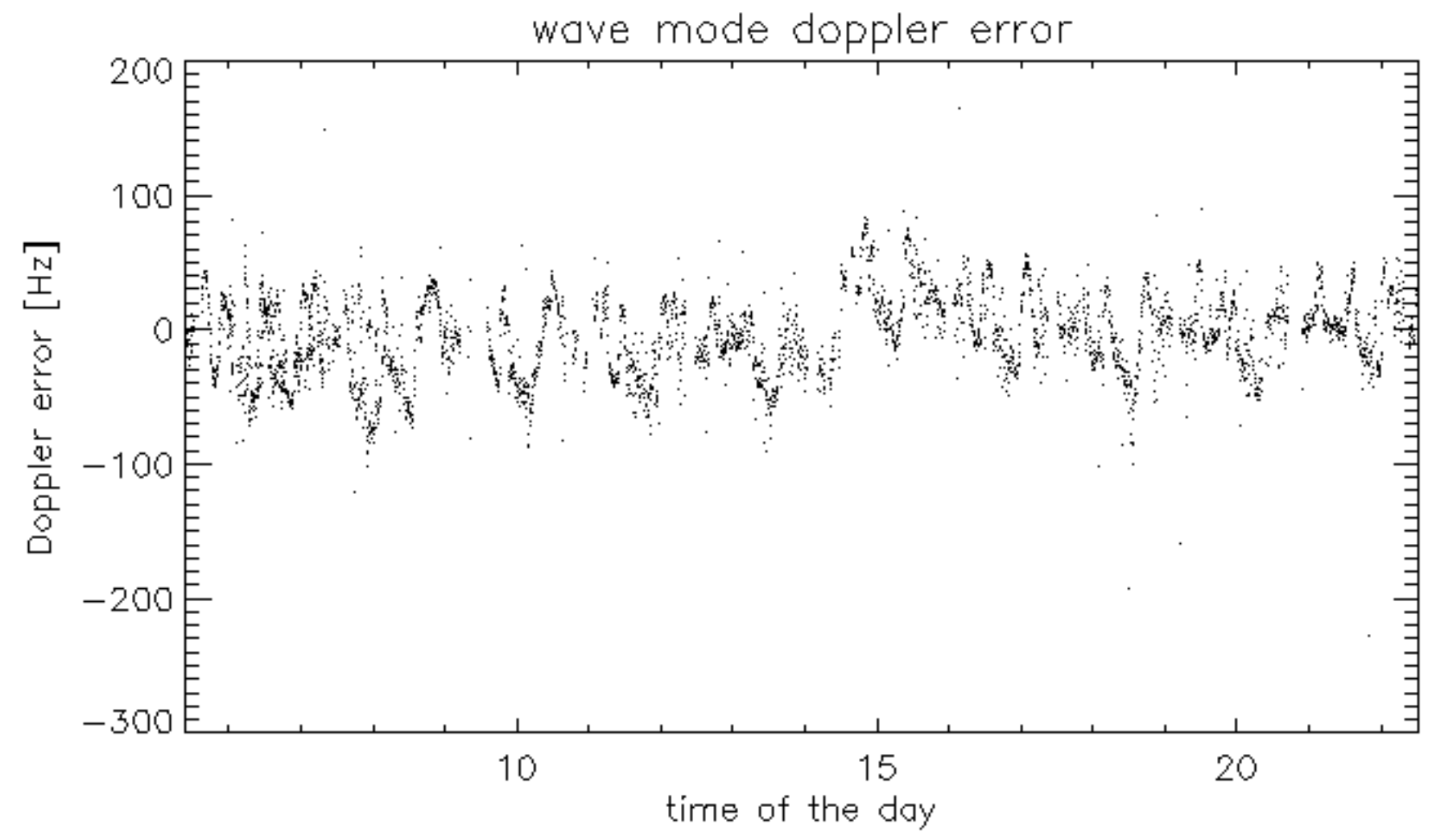
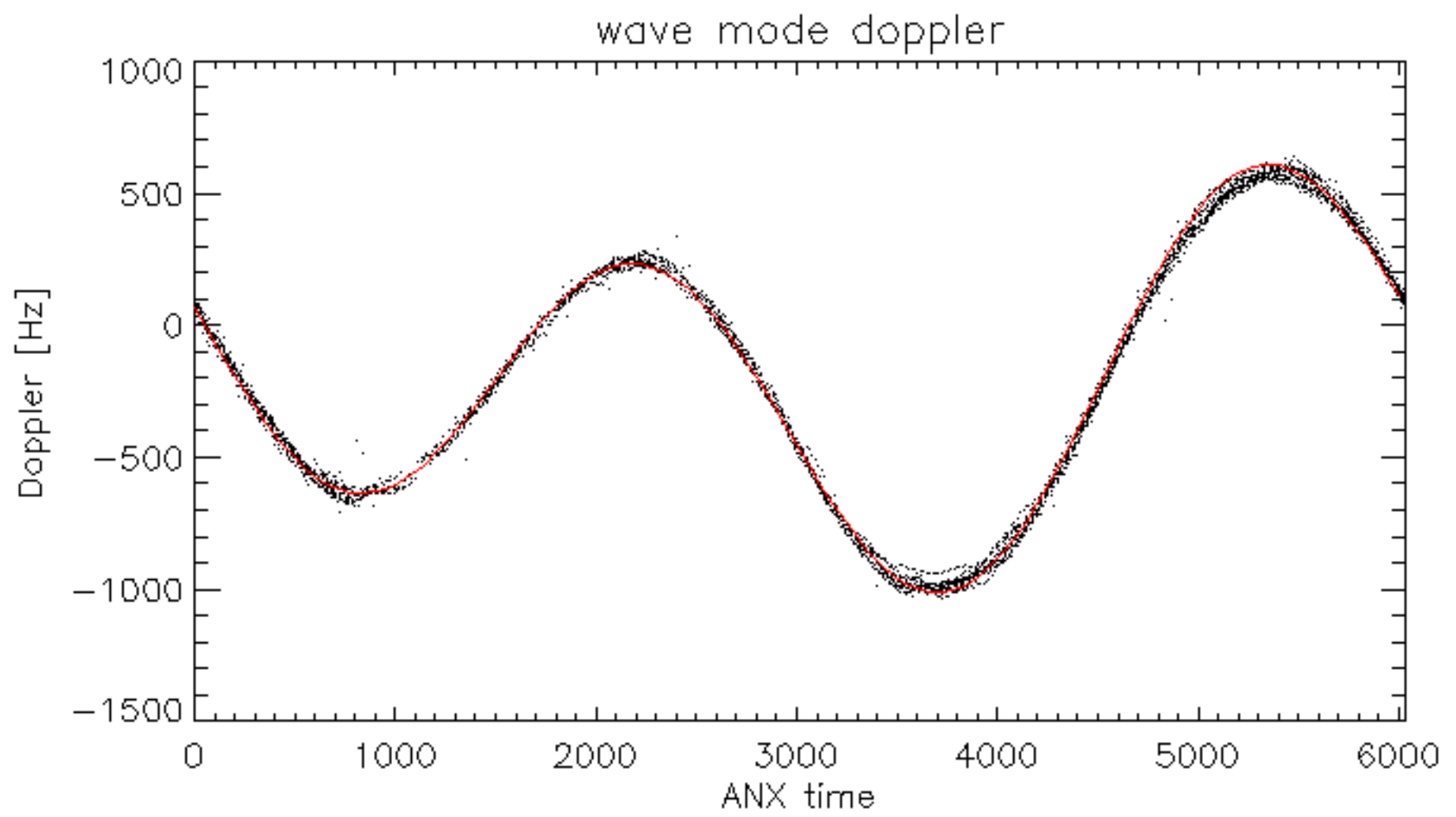
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

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

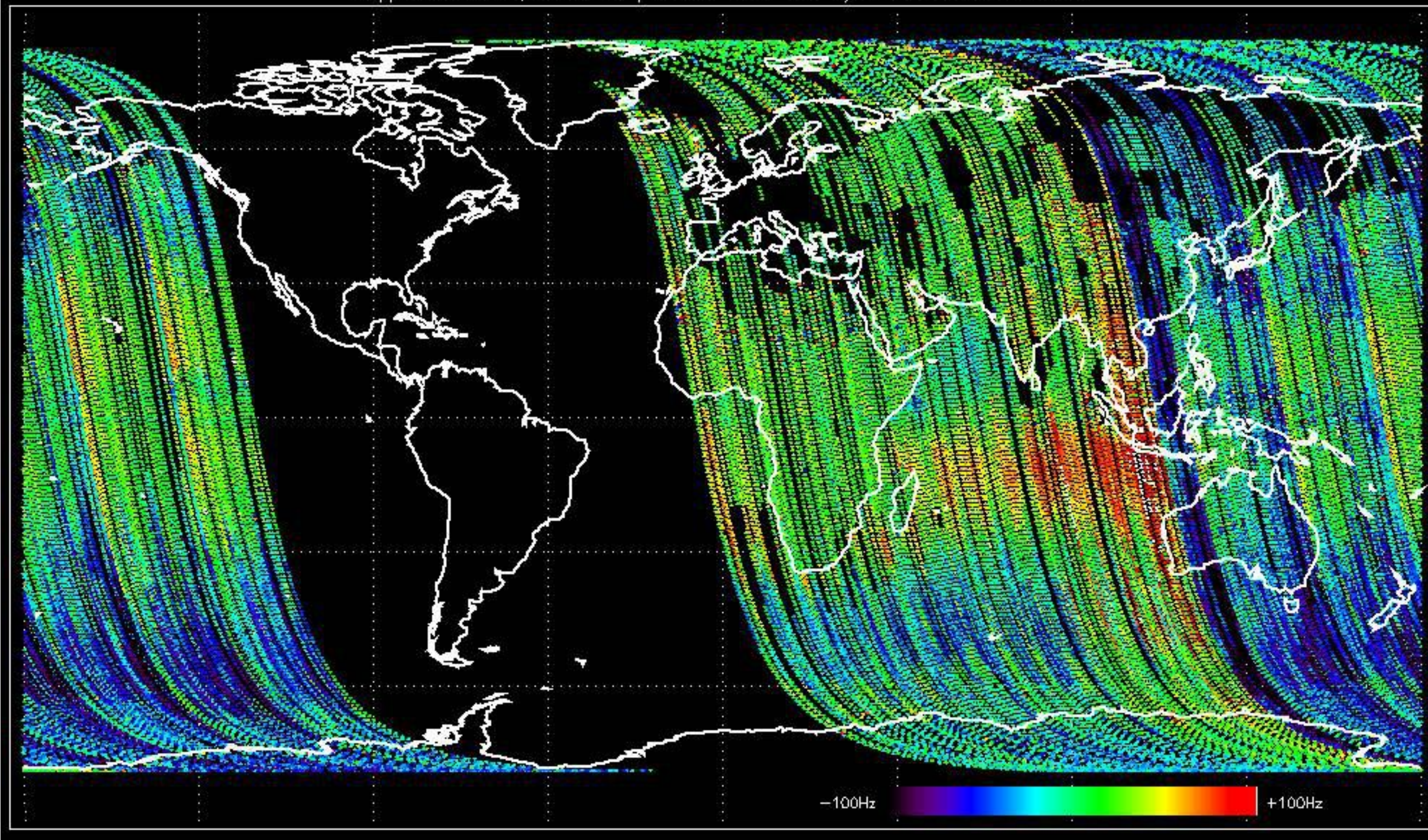


Doppler 'WVS' 'ISZ' 'V/V'

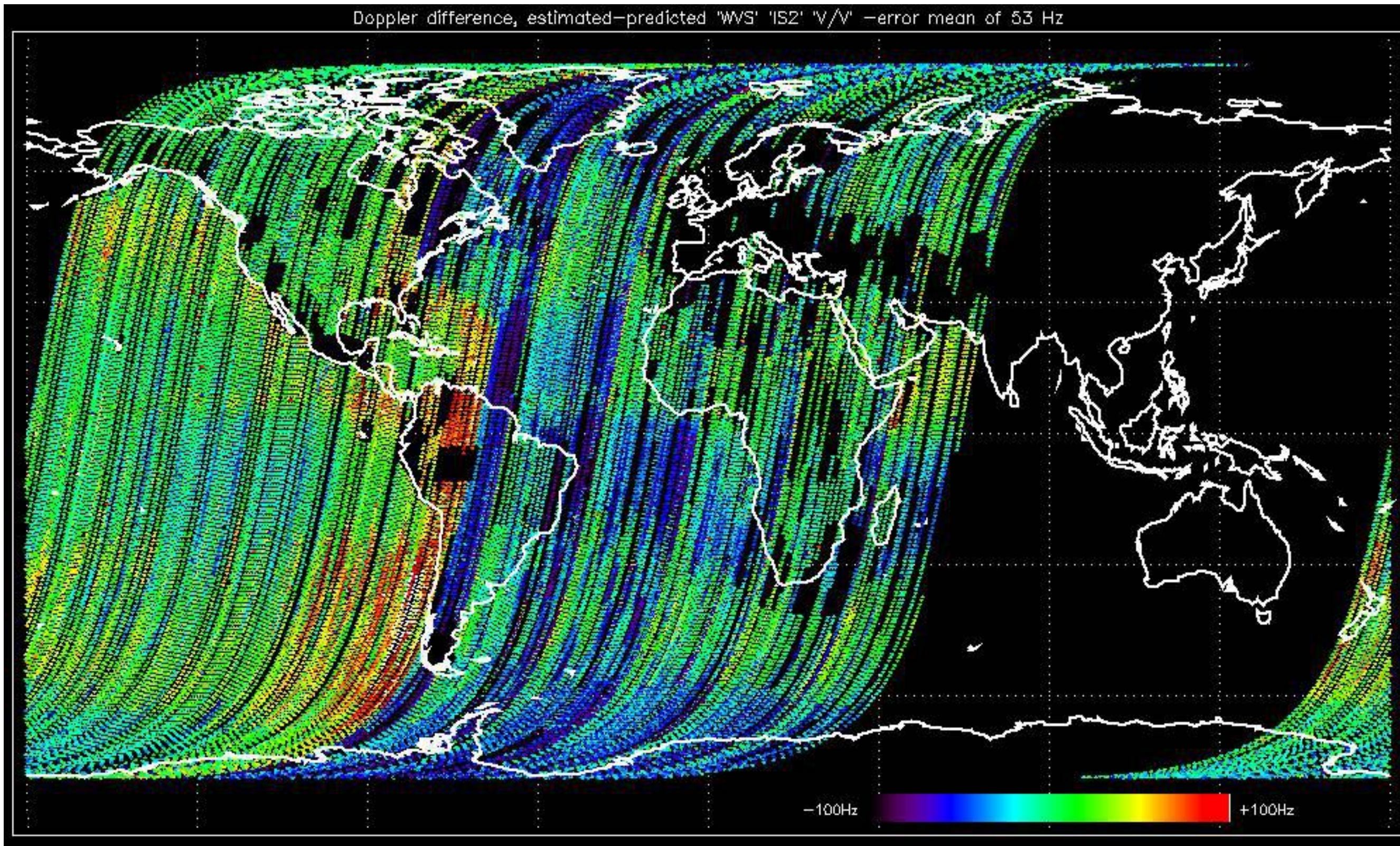




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz

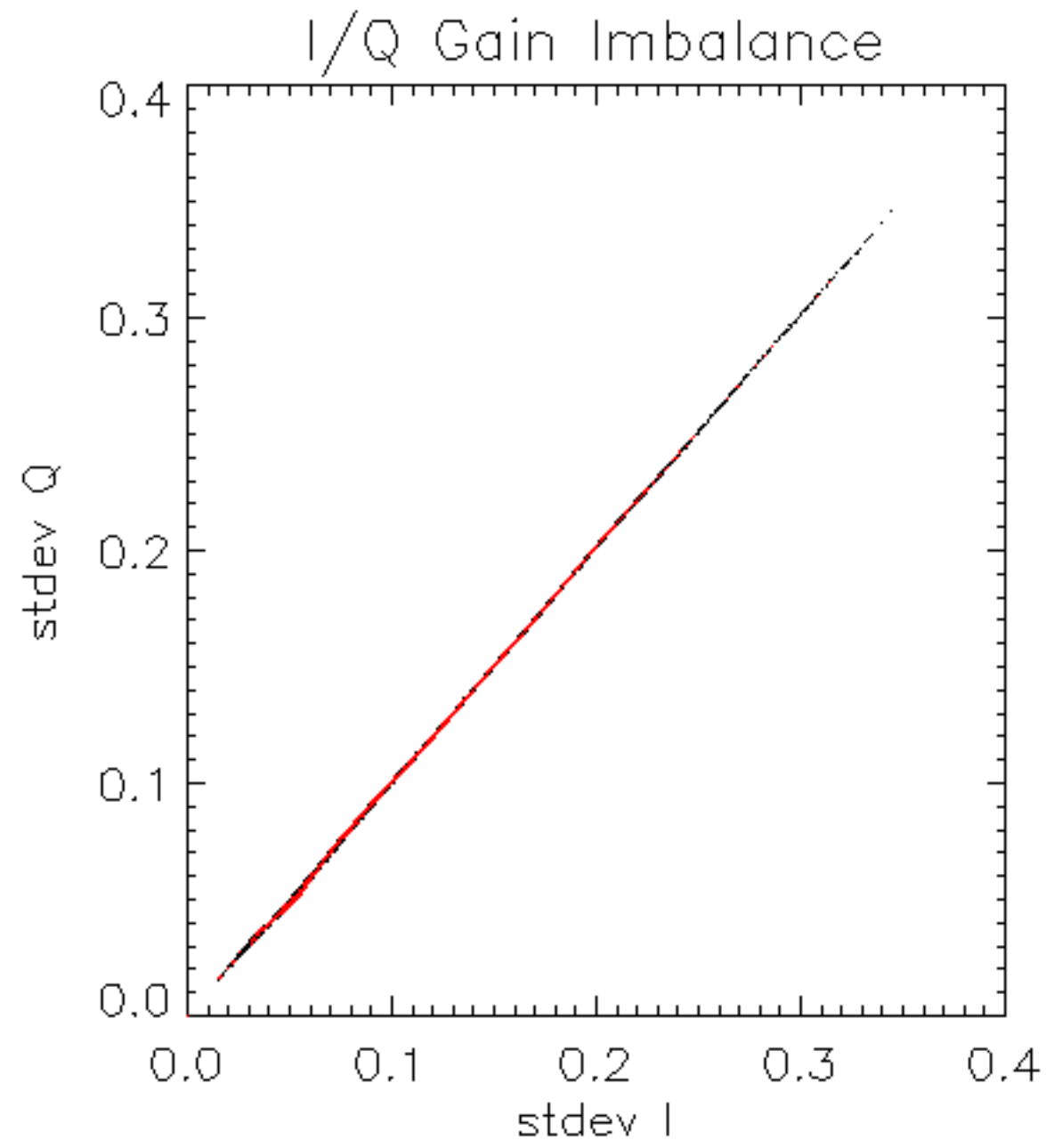


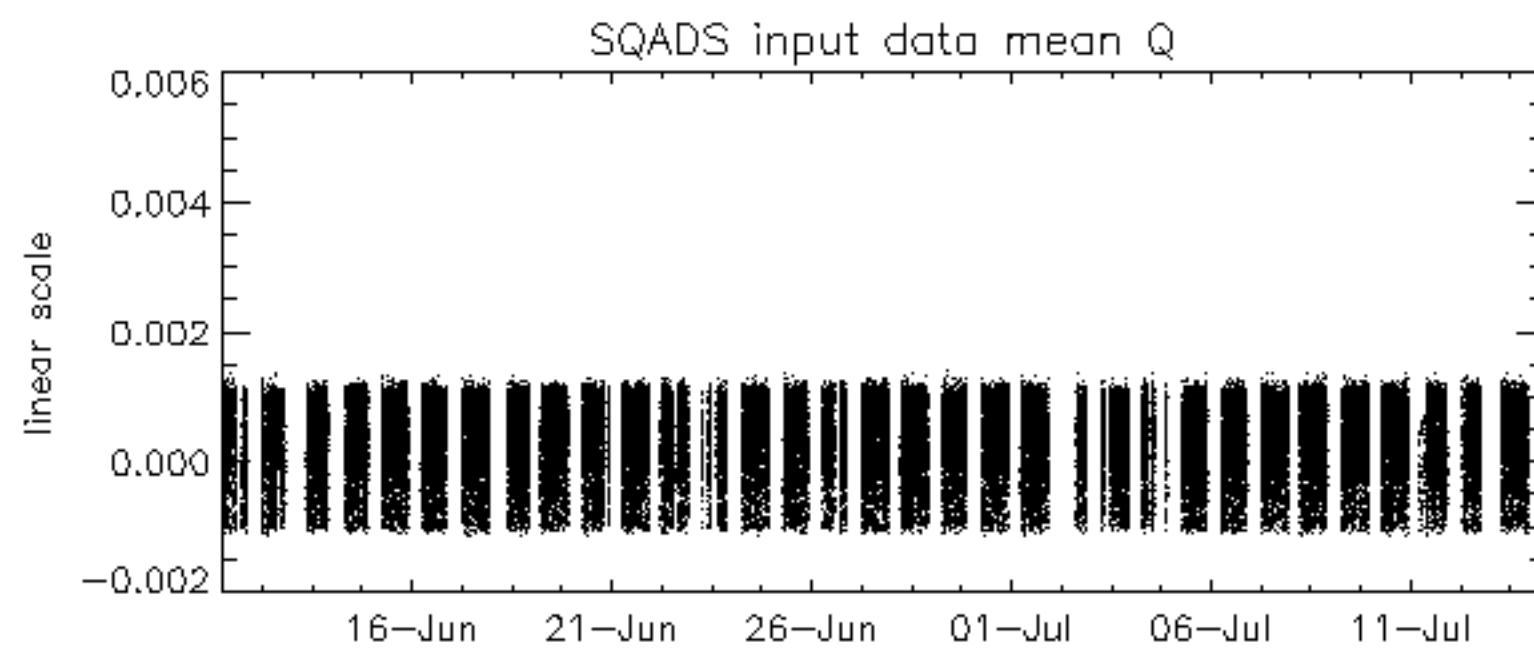
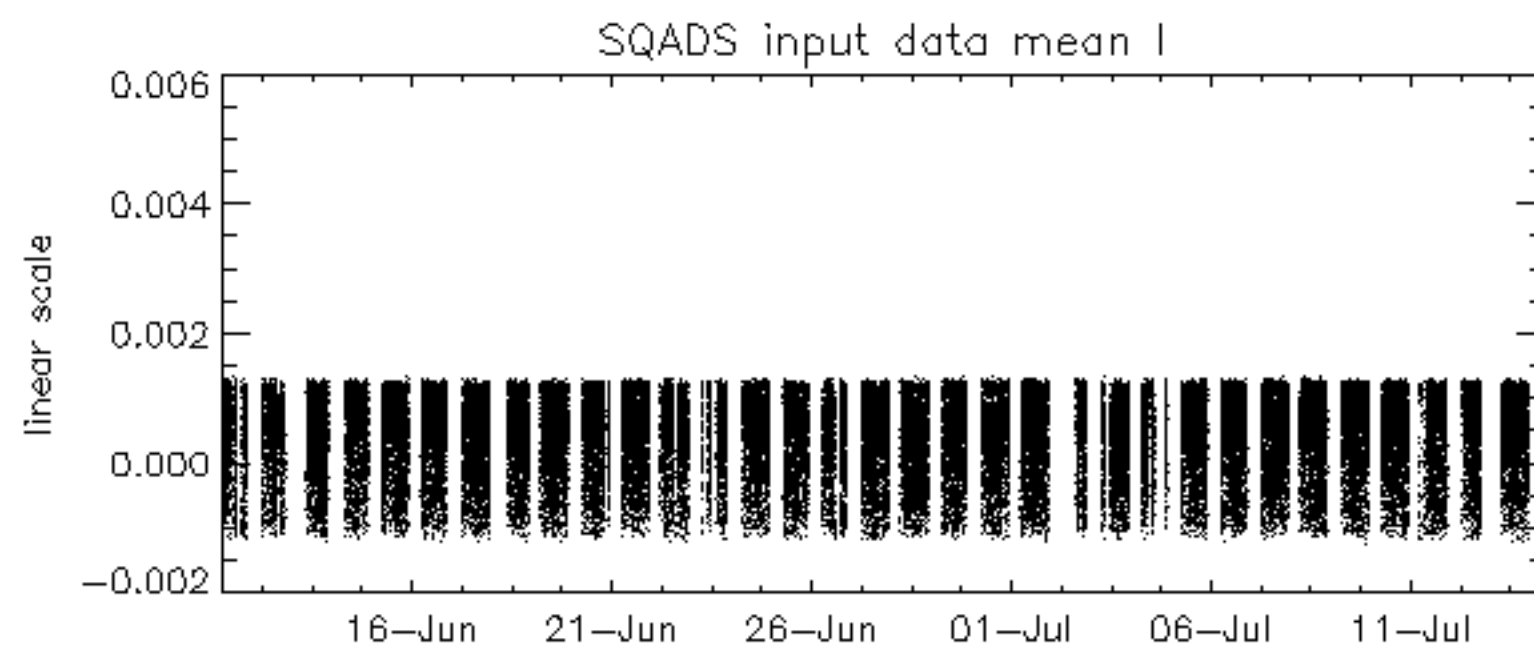
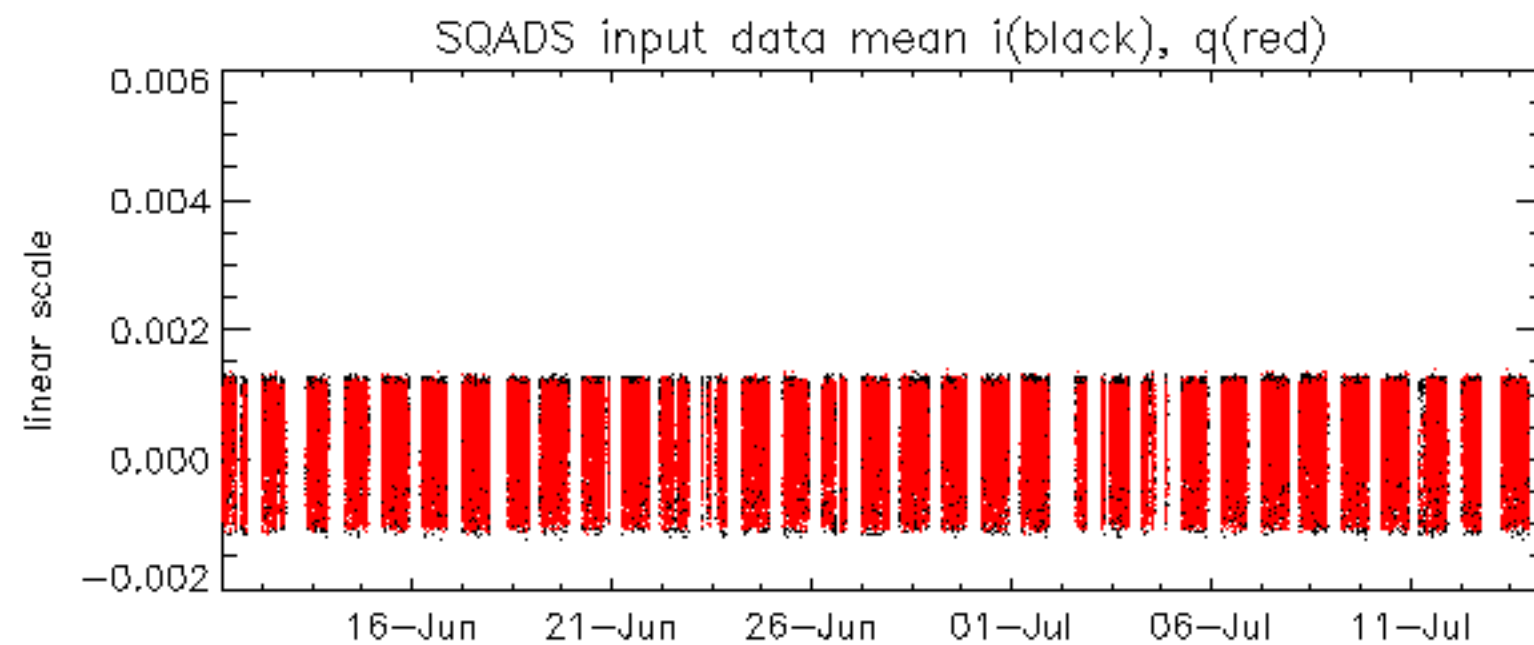
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of 53 Hz

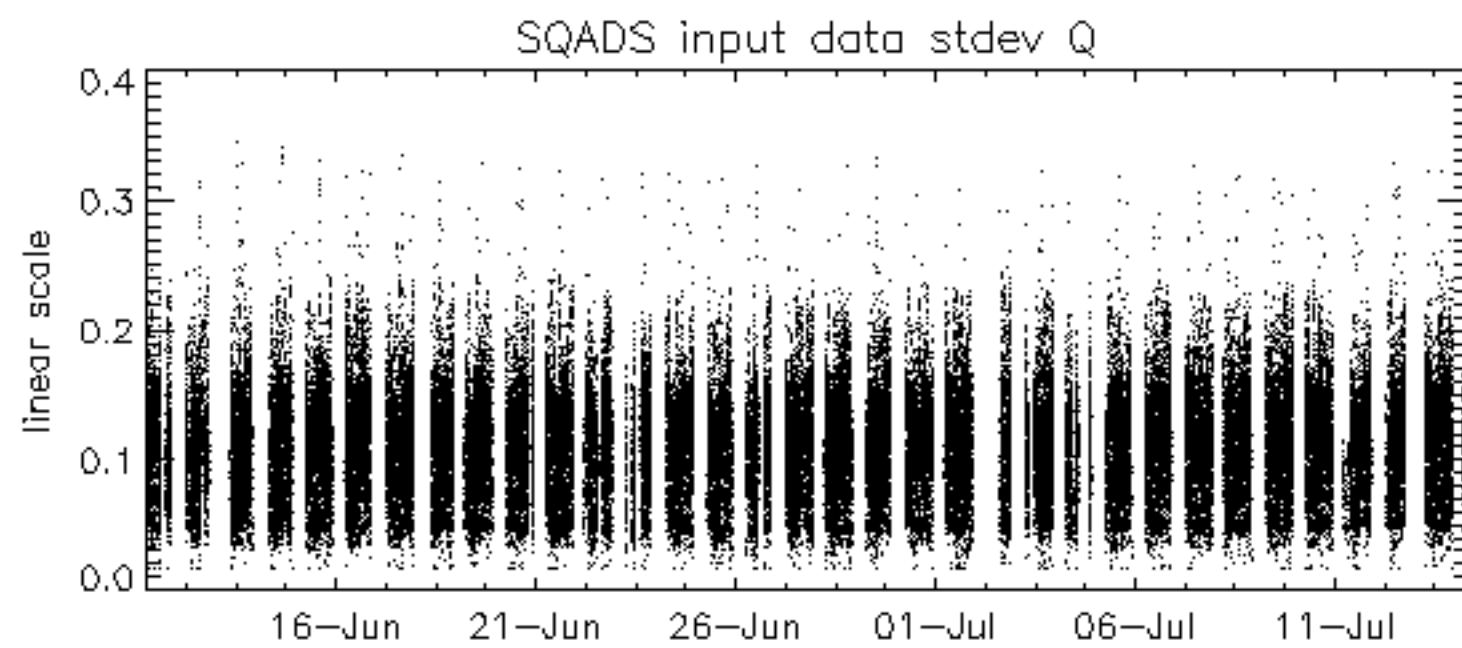
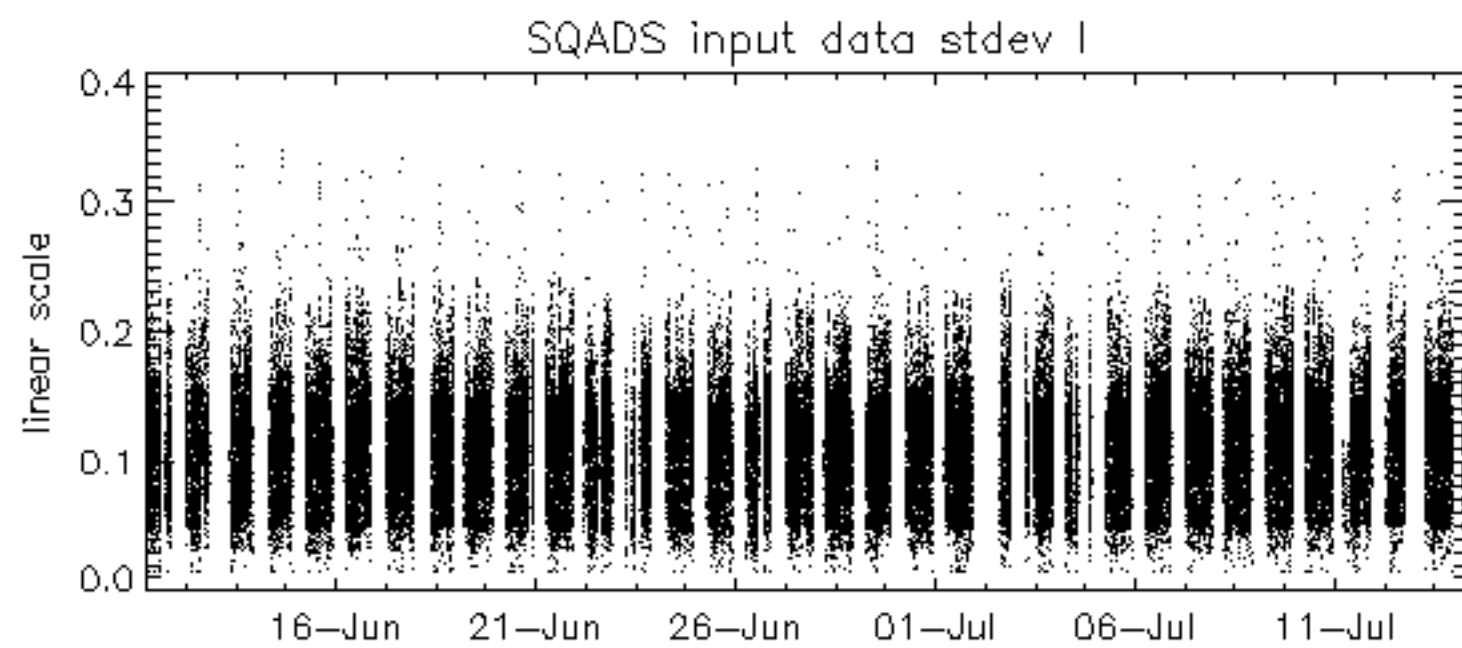
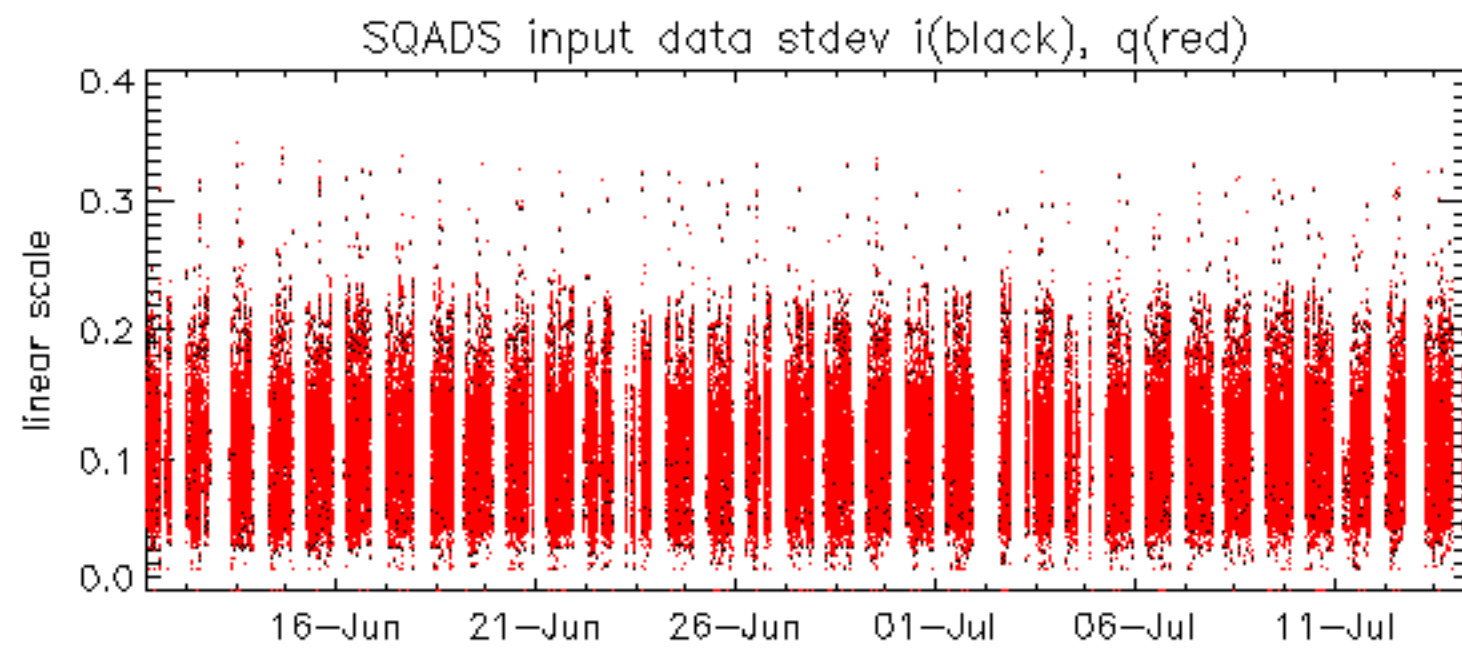


No MS product for the reported period.
Analysis performed on MS data (H and V polarization) acquired on 11-Jul-2003
No anomalies observed.

No anomalies observed.







No unavailabilities during the reported period