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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	20030813 190835
H	20030813 190655

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	-3.81372	-22.5242	-8.11496
	stdev	0.00559974	0.0536335	0.00240310
10	mean	-6.88678	-19.3213	-8.11496
	stdev	0.0227077	0.0556022	0.00240310



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.86163	-22.5641	-8.10427
	stdev	0.0880384	0.0624977	0.00256648
10	mean	-6.97790	-19.3234	-8.10427
	stdev	0.415841	0.0613033	0.00256648



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	0.000473440
	stdev	3.06821e-07
MEAN Q	mean	0.000303674
	stdev	3.22968e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115390
	stdev	0.00160461
STDEV Q	mean	0.115530
	stdev	0.00163380



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

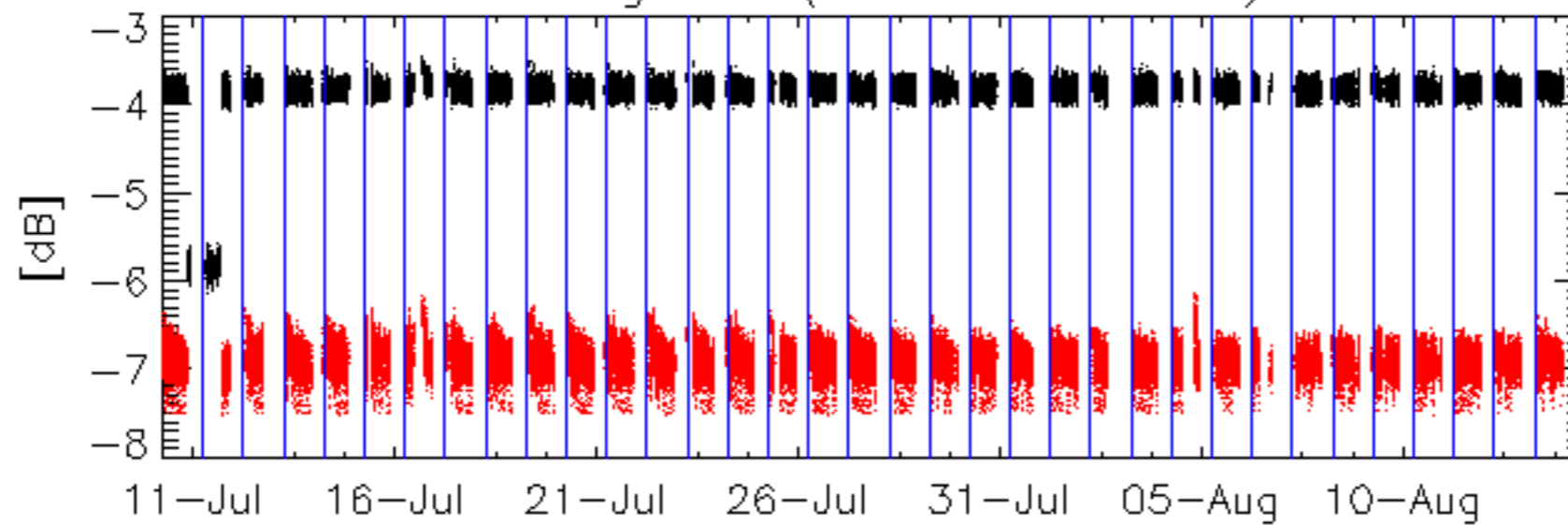
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

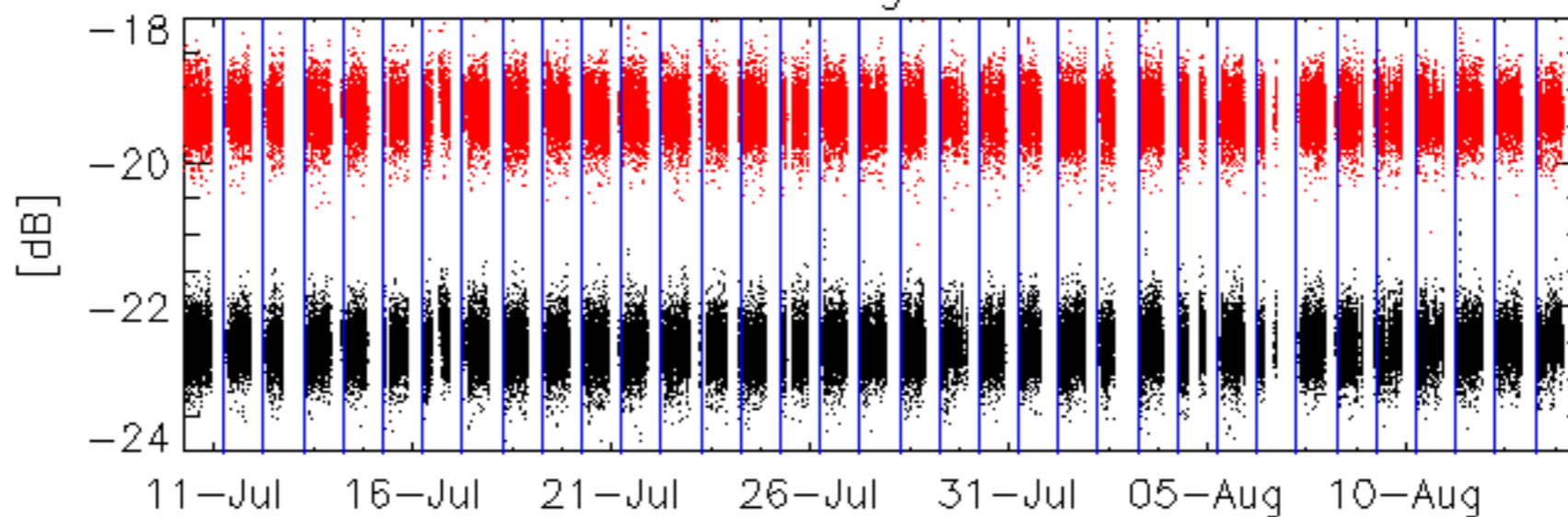
Evolution Doppler error versus ANX



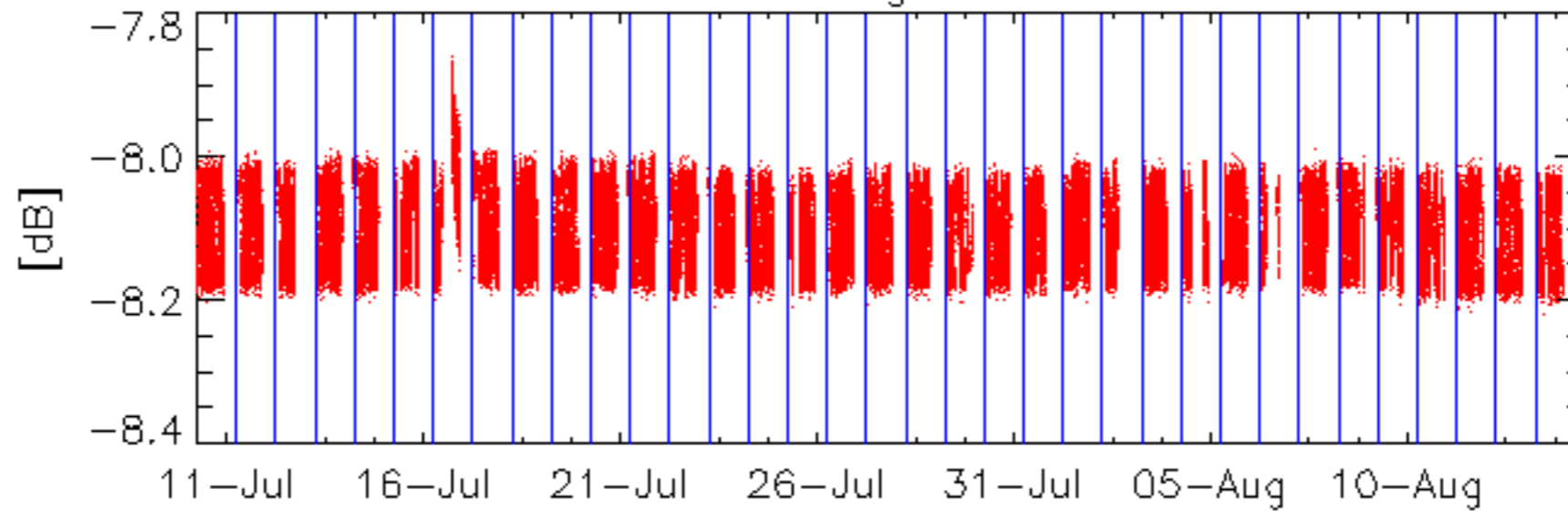
Average P1 (row 3 & row 10)



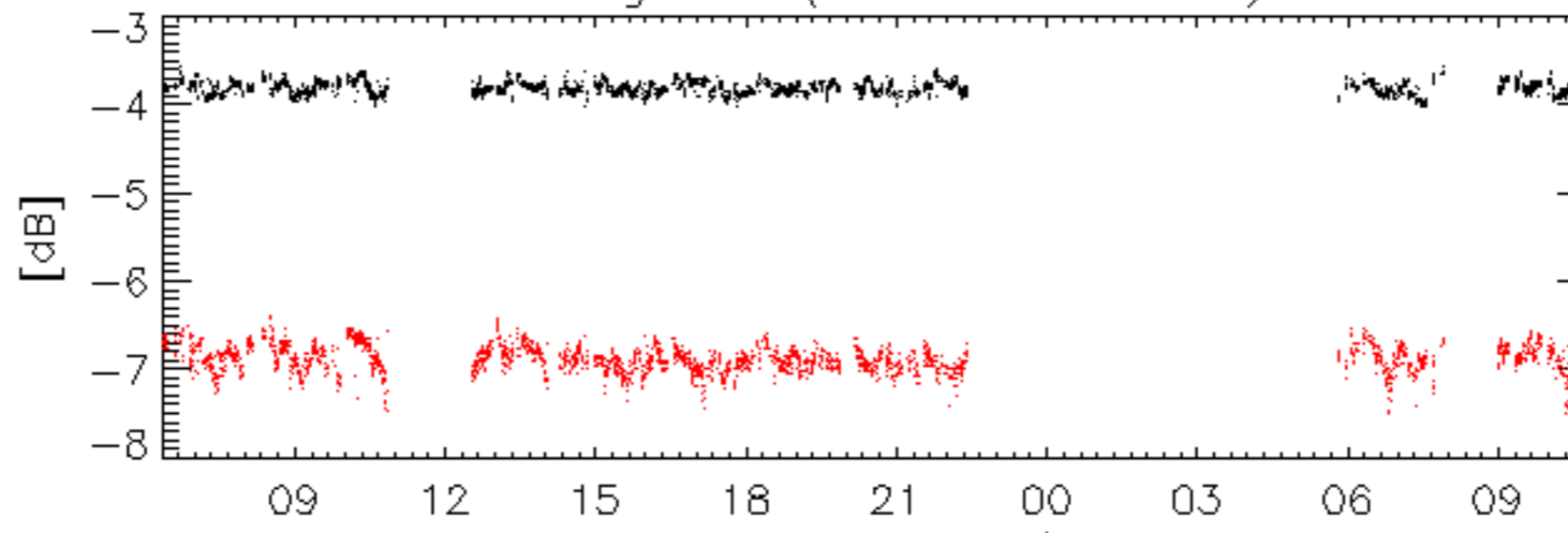
Average P2



Average P3

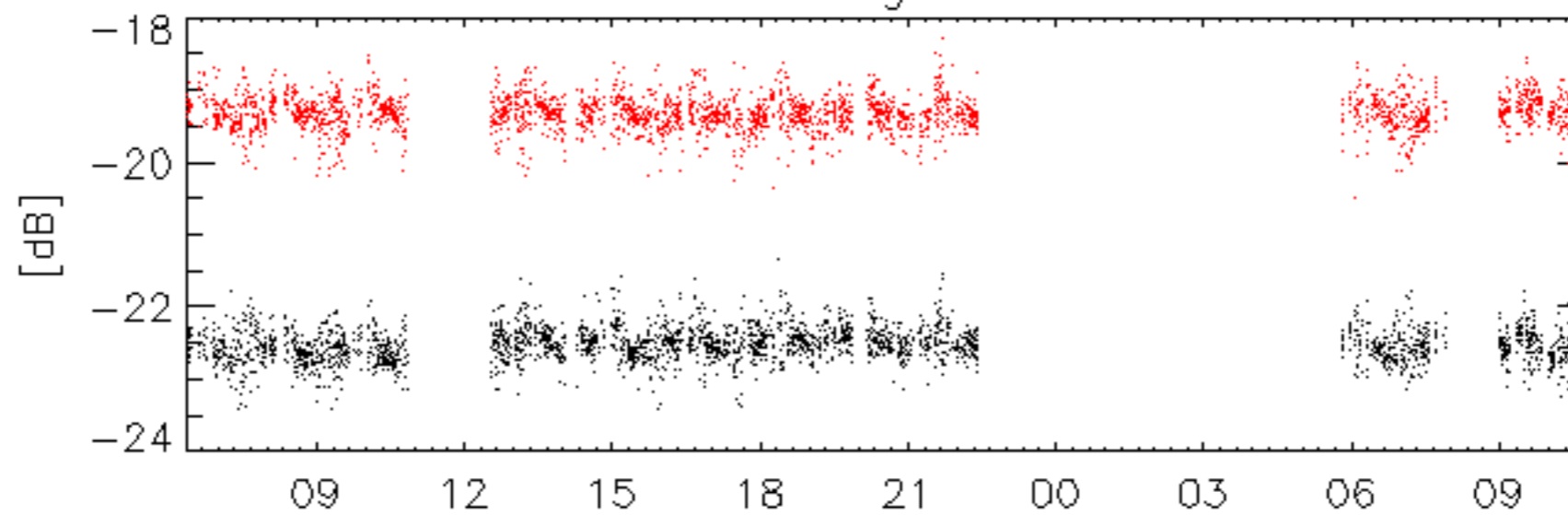


Average P1 (row 3 & row 10)



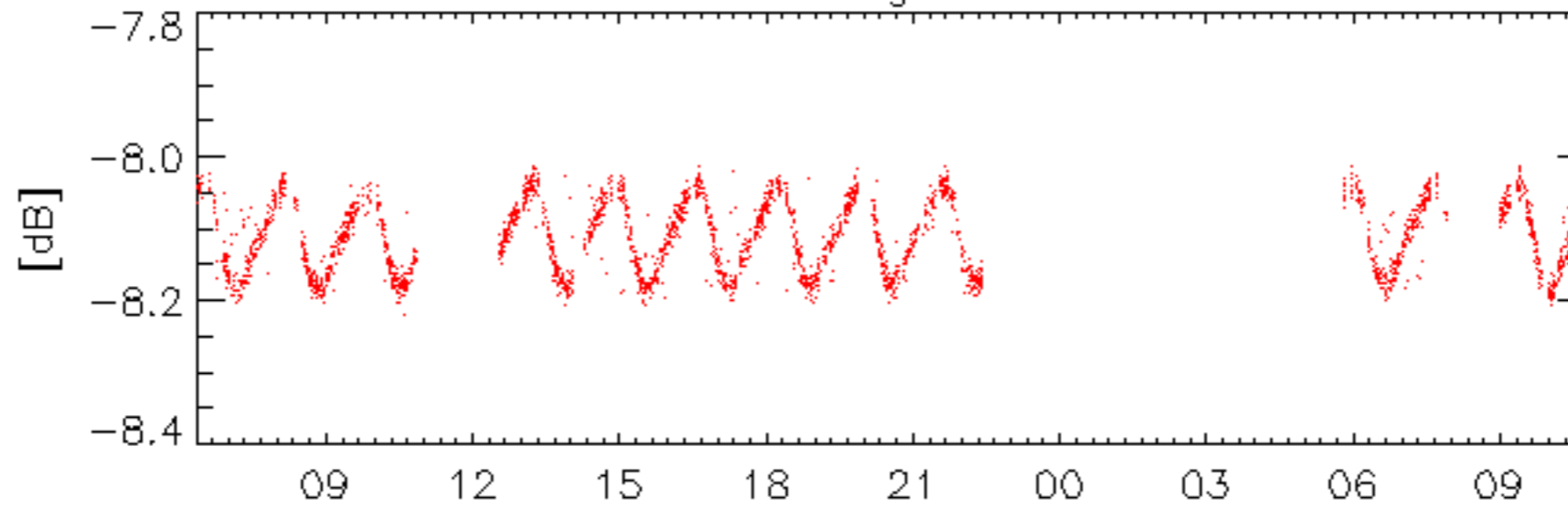
14-Aug

Average P2

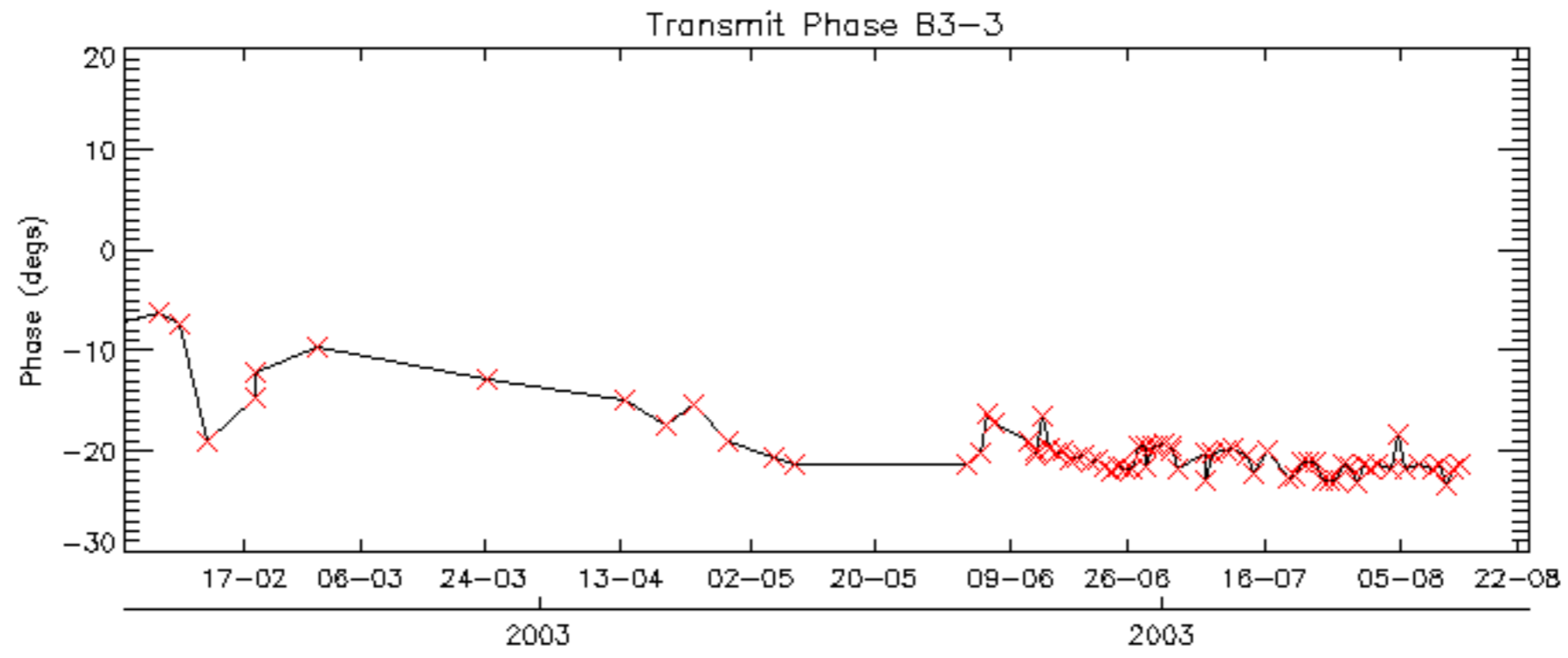


14-Aug

Average P3



14-Aug



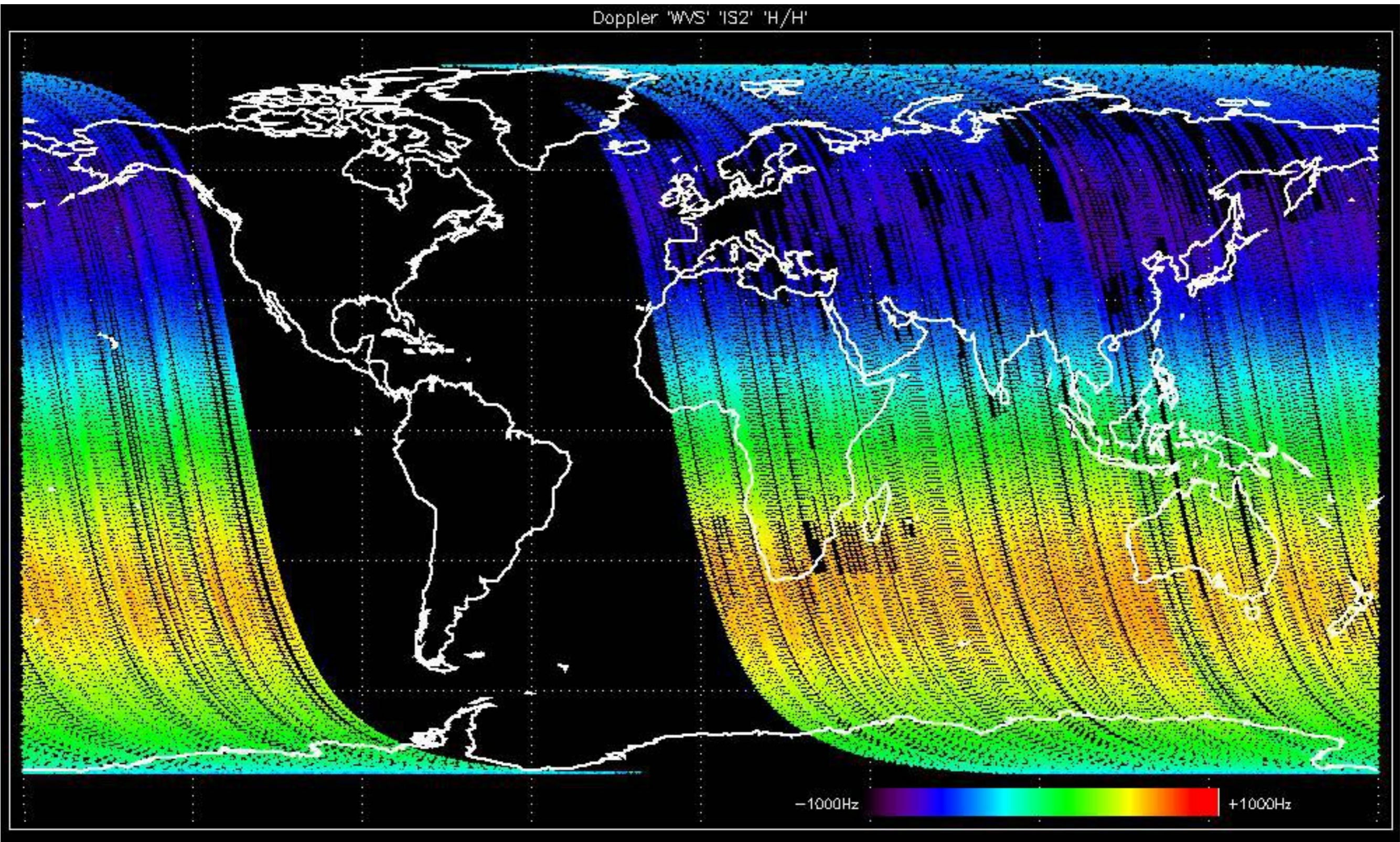
No anomalies observed on available browse products

No anomalies observed.

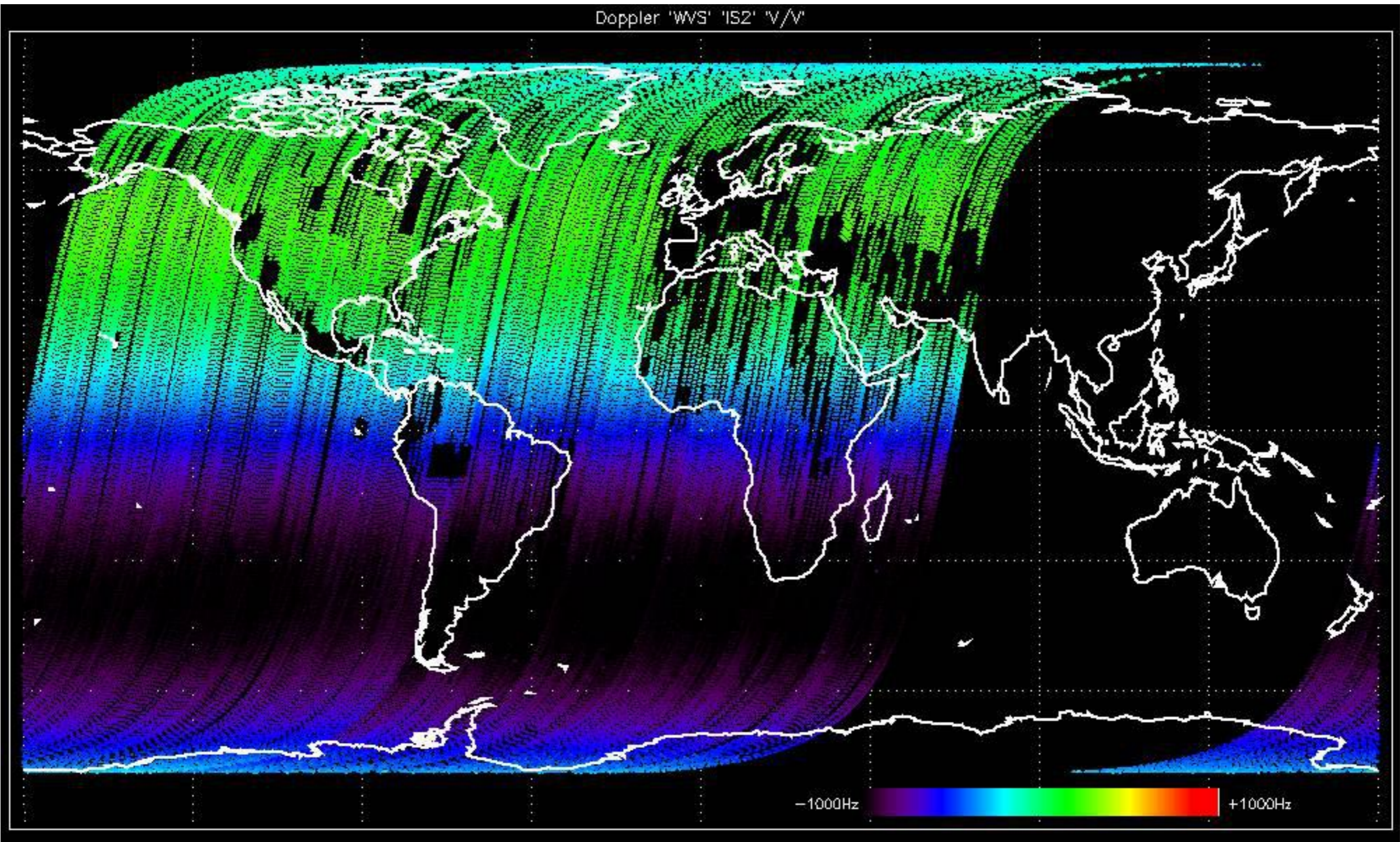
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

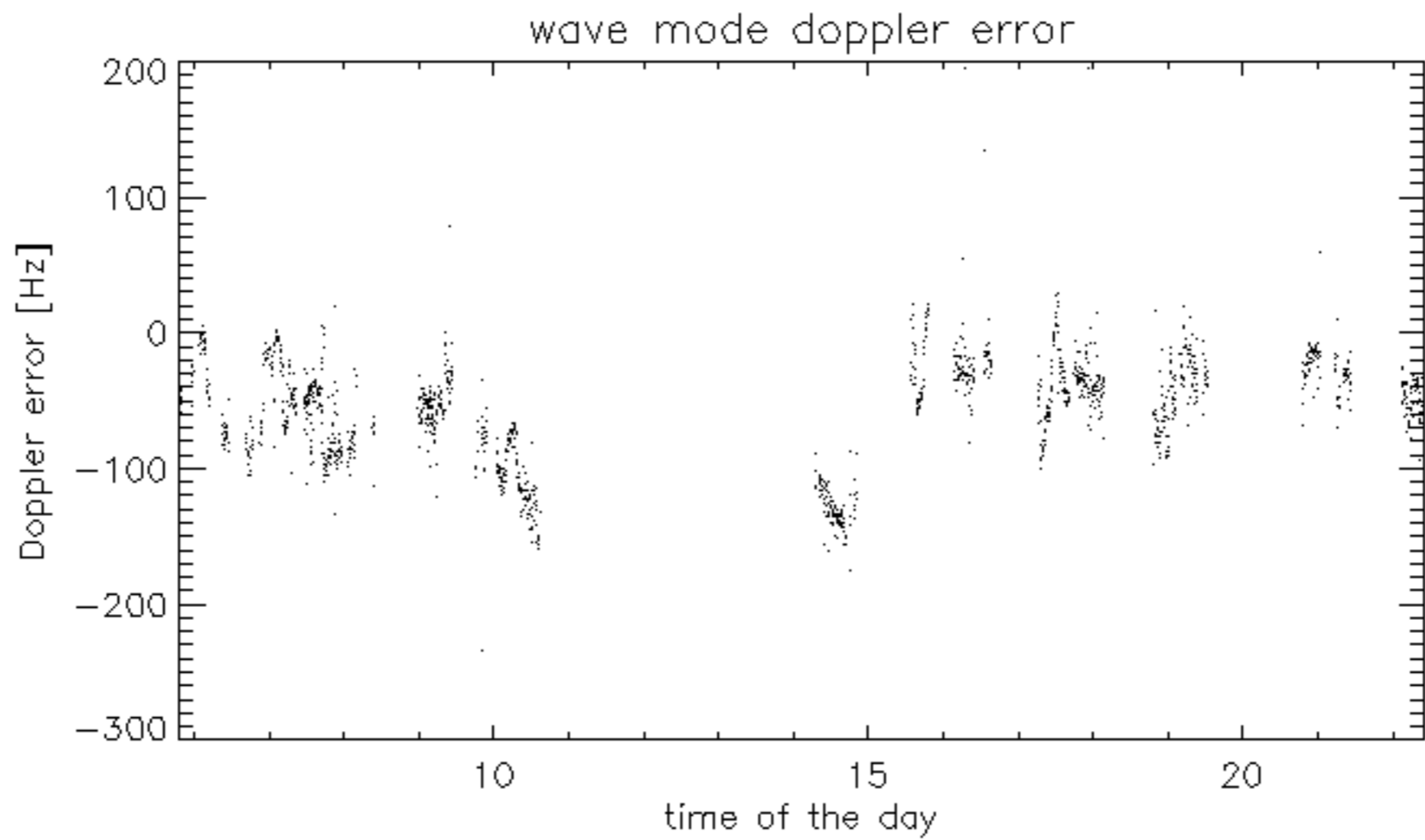
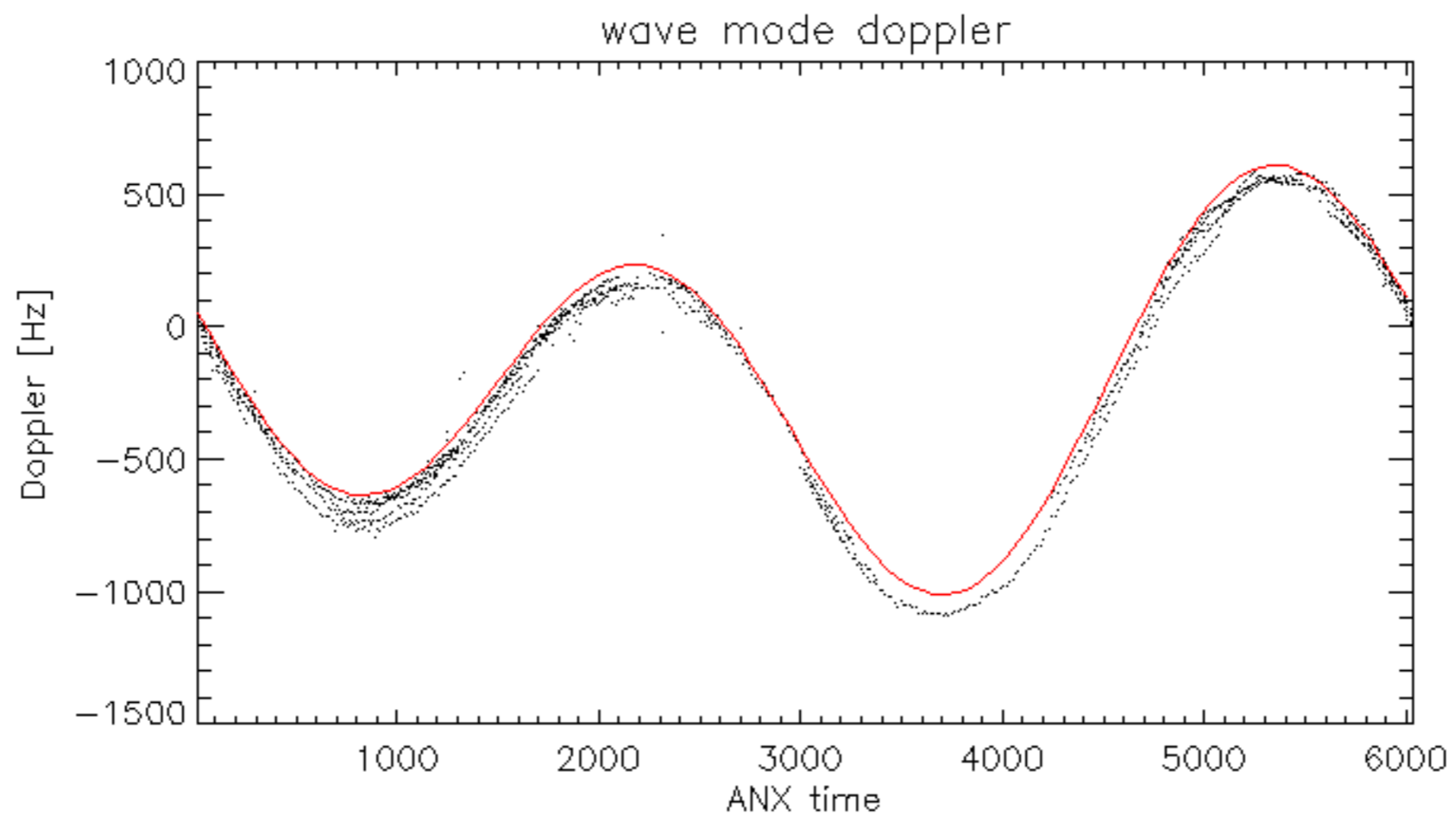
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

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

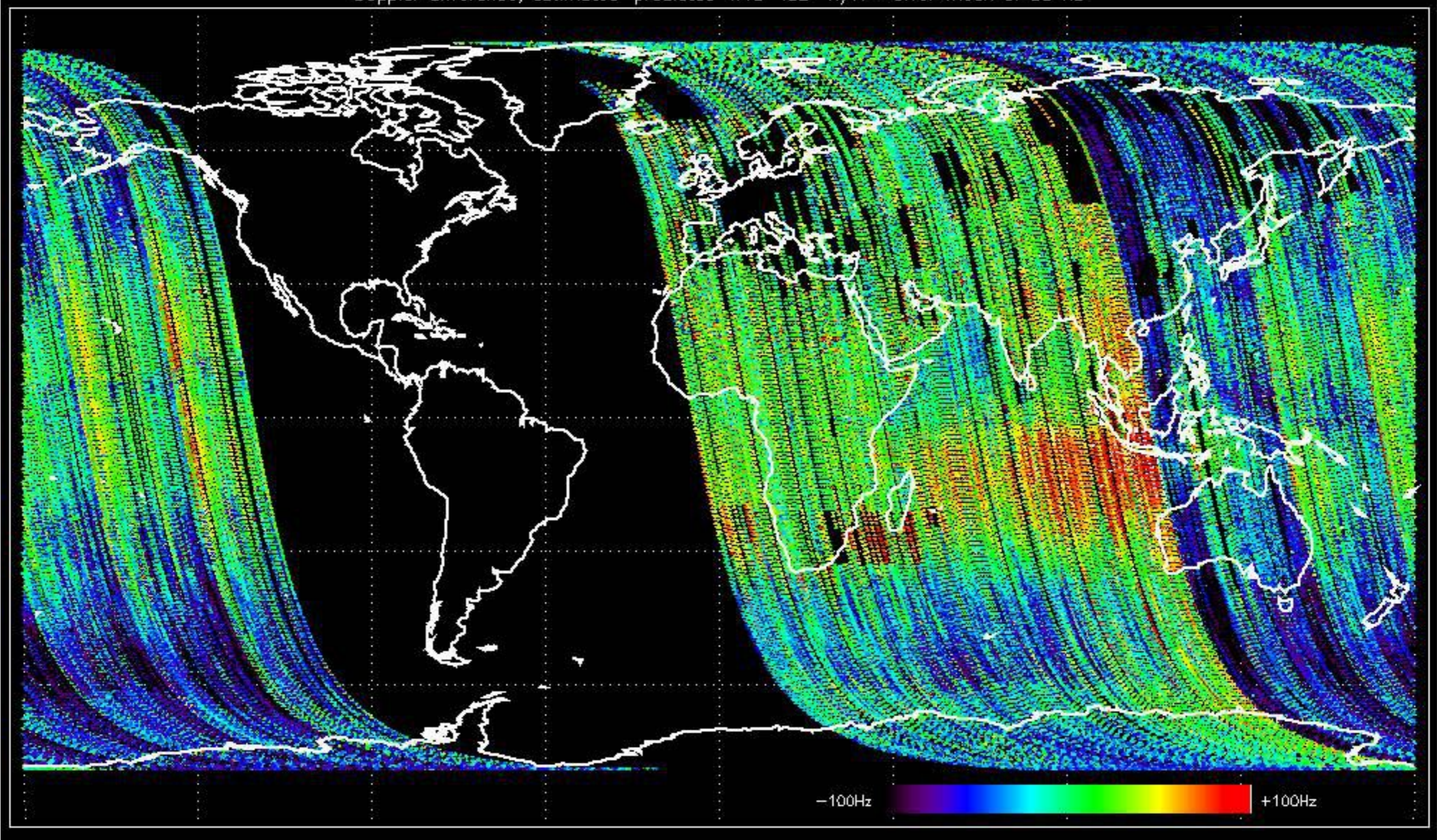


Doppler 'WVS' 'ISZ' 'V/V'

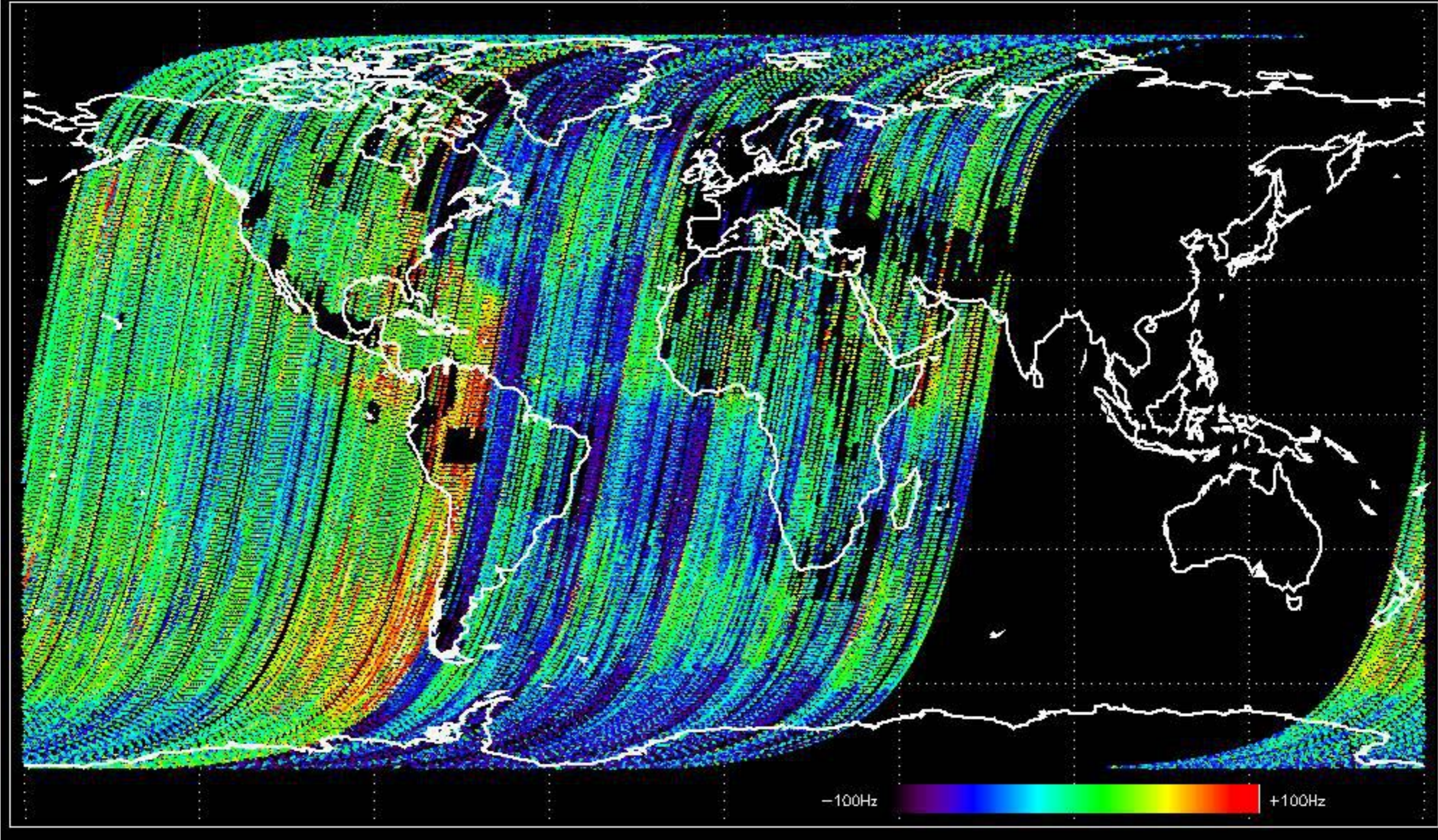




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz

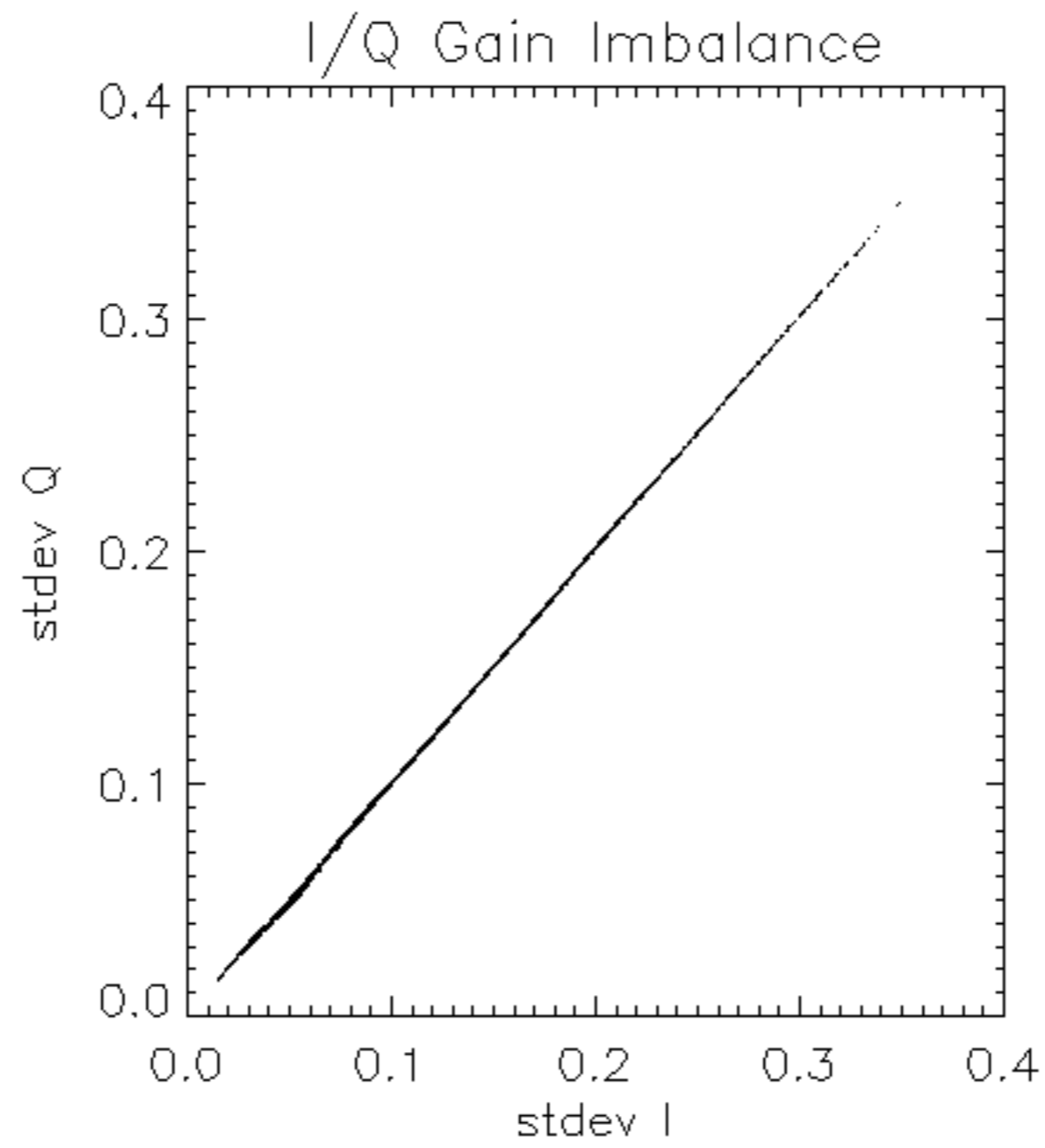


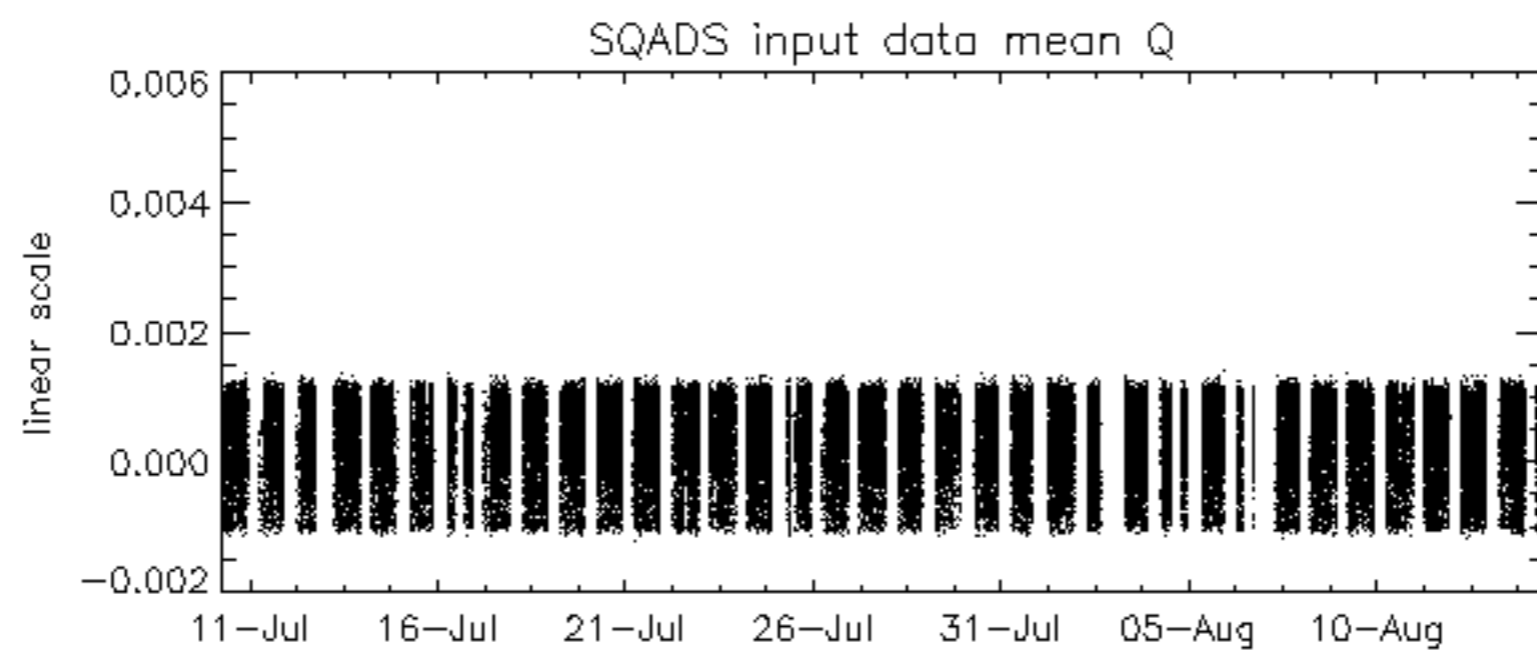
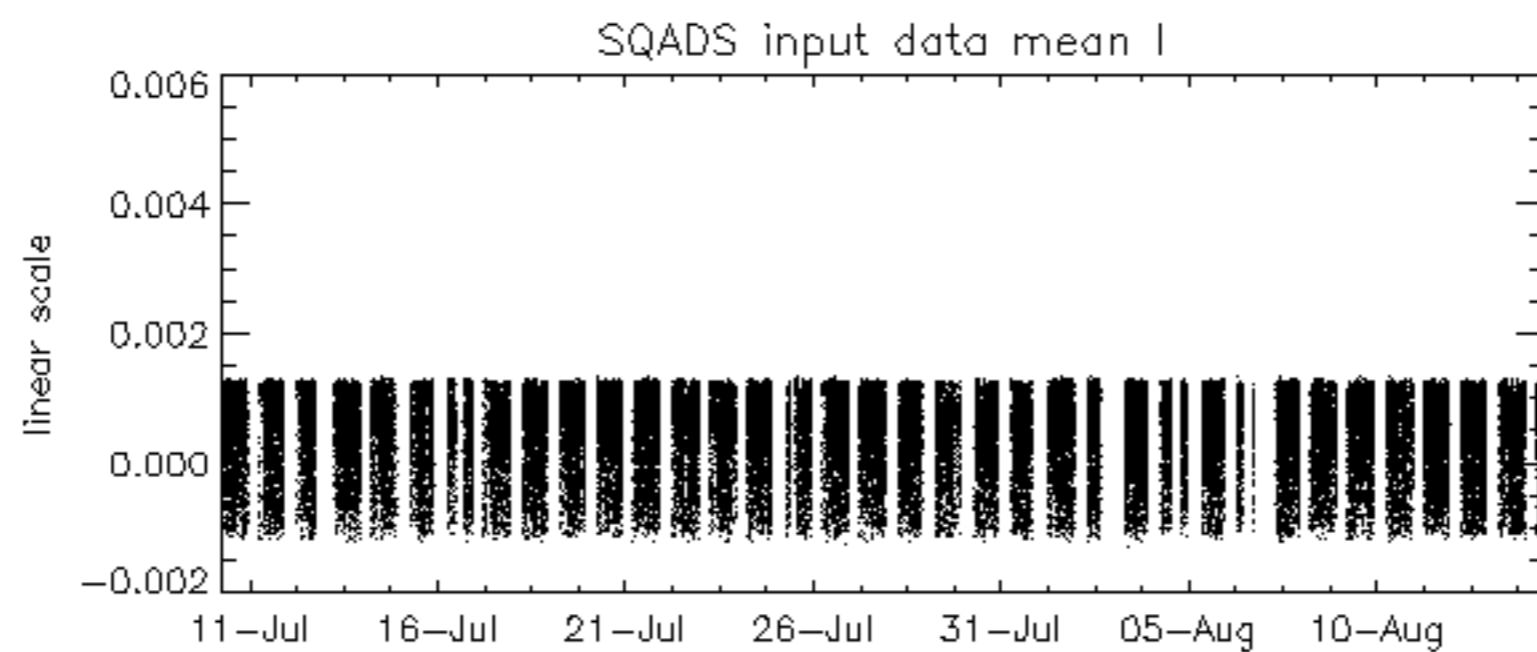
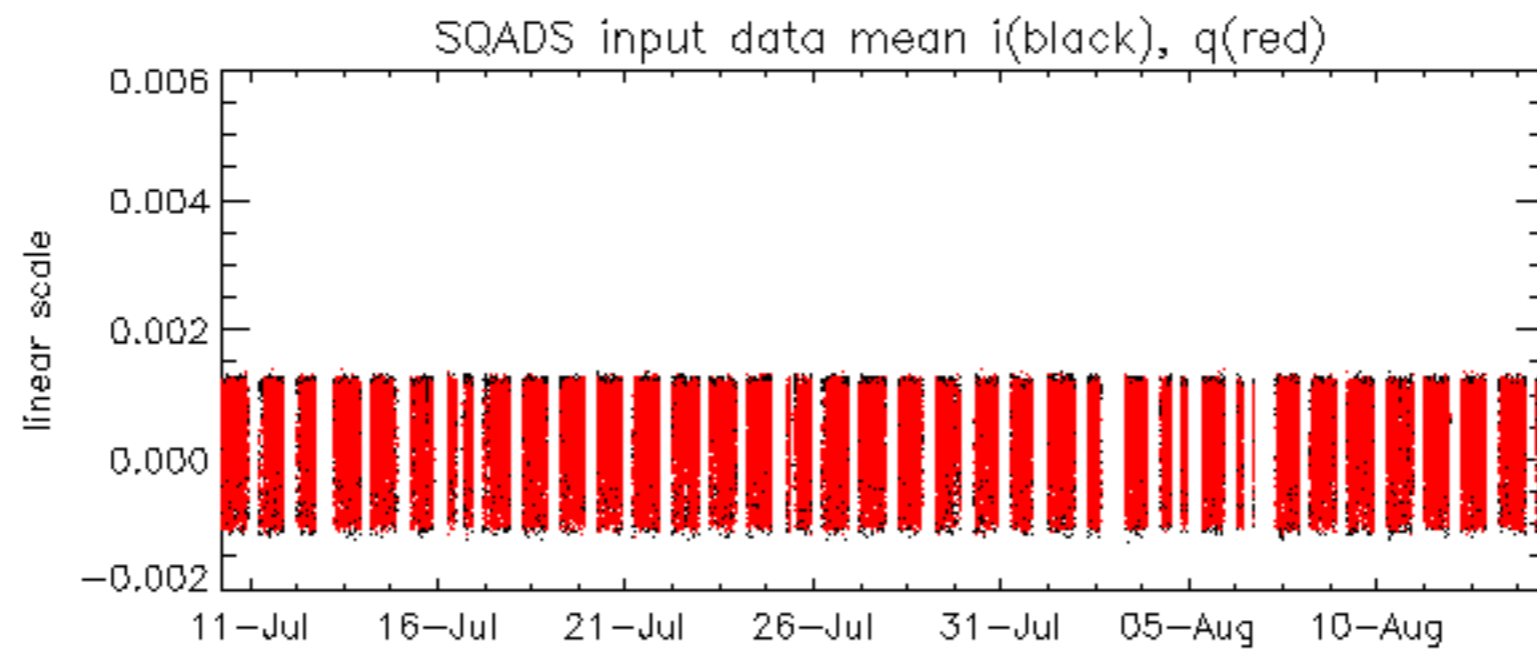
Doppler difference, estimated-predicted 'WS' 'IS2' 'V/V' -error mean of 53 Hz

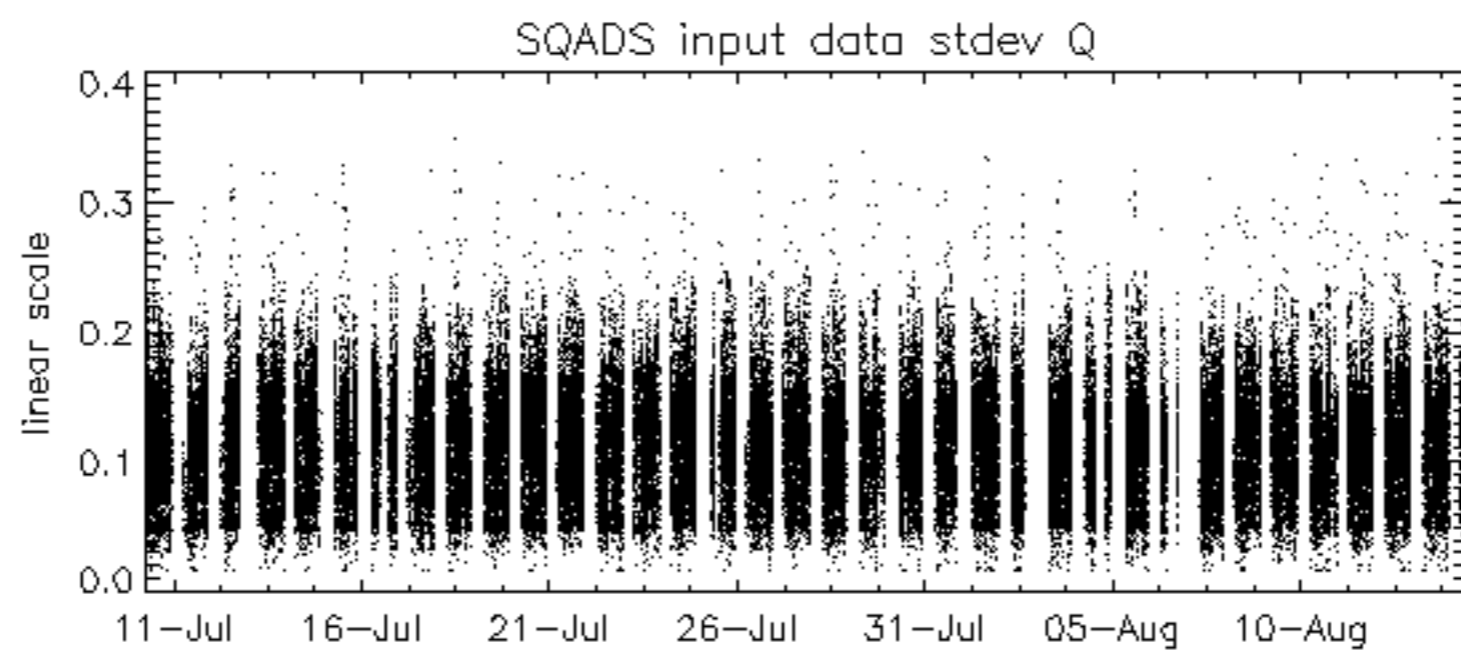
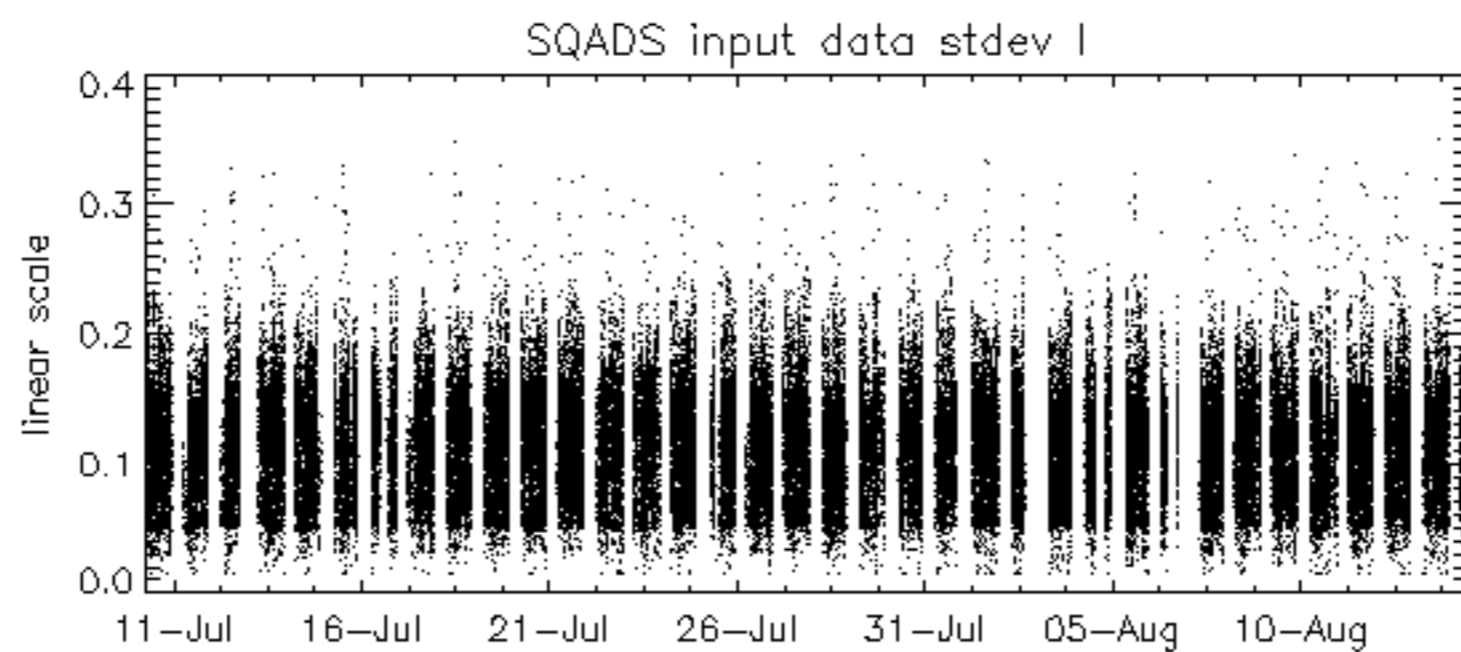
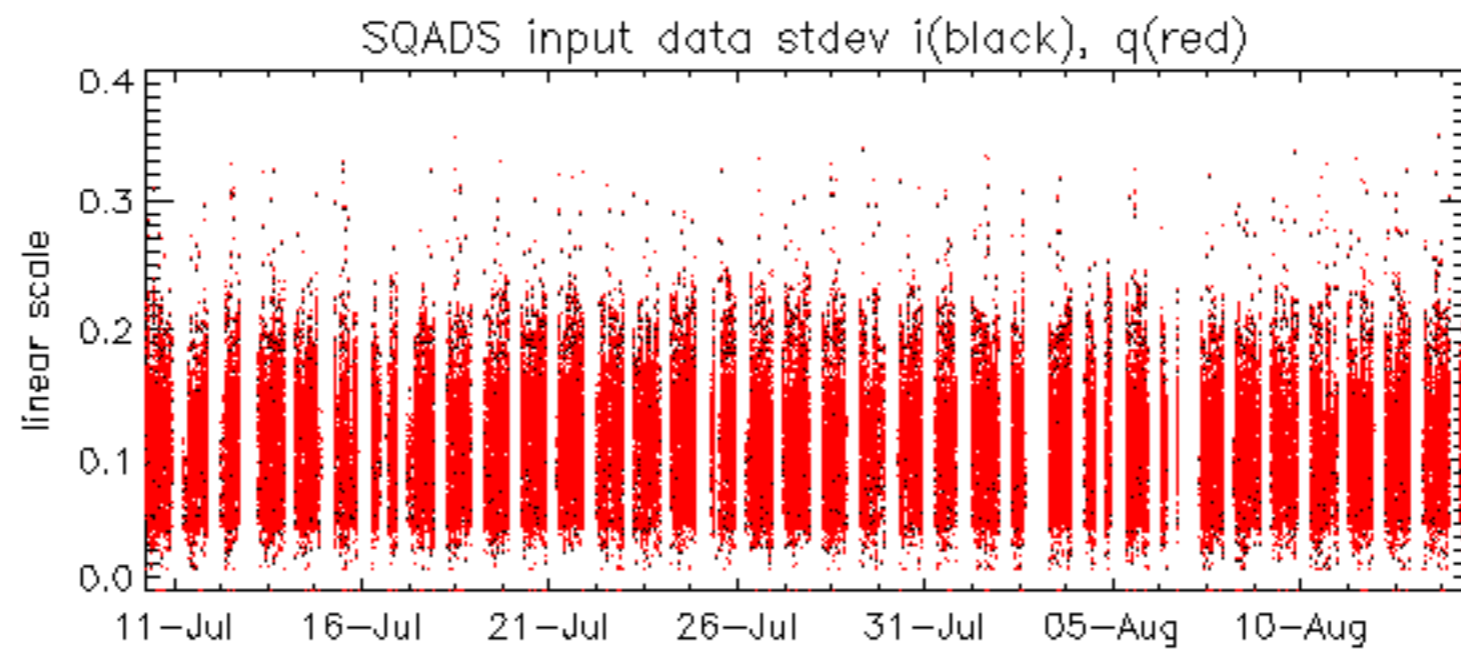


No anomalies observed on available MS products:

No anomalies observed.







No unavailabilities during the reported period.