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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

Last MS products available for analysis acquired on 16-Aug-2003 (H and V polarization):

- ASA_MS__0PNPDK20030816_191241_000000152019_00070_07639_0086.N1
- ASA_MS__0PNPDK20030816_191421_000000152019_00070_07639_0087.N1









No anomalies observed.

The figure below shows a stable configuration for the phase of TR module 3 on Tile B3.











Polarisation	Start Time
V	20030816 191421
H	20030816 191241

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	-3.80017	-22.5215	-8.10842
	stdev	0.00574115	0.0606117	0.00251039
10	mean	-6.91452	-19.3049	-8.10842
	stdev	0.0294610	0.0621646	0.00251039



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.81794	-22.5595	-8.10498
	stdev	0.00563577	0.0628606	0.00257121
10	mean	-6.89126	-19.3247	-8.10498
	stdev	0.0274054	0.0611905	0.00257121



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	0.000465329
	stdev	3.09134e-07
MEAN Q	mean	0.000297690

stdev	3.23642e-07
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5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115247
	stdev	0.00158629
STDEV Q	mean	0.115397
	stdev	0.00161414



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

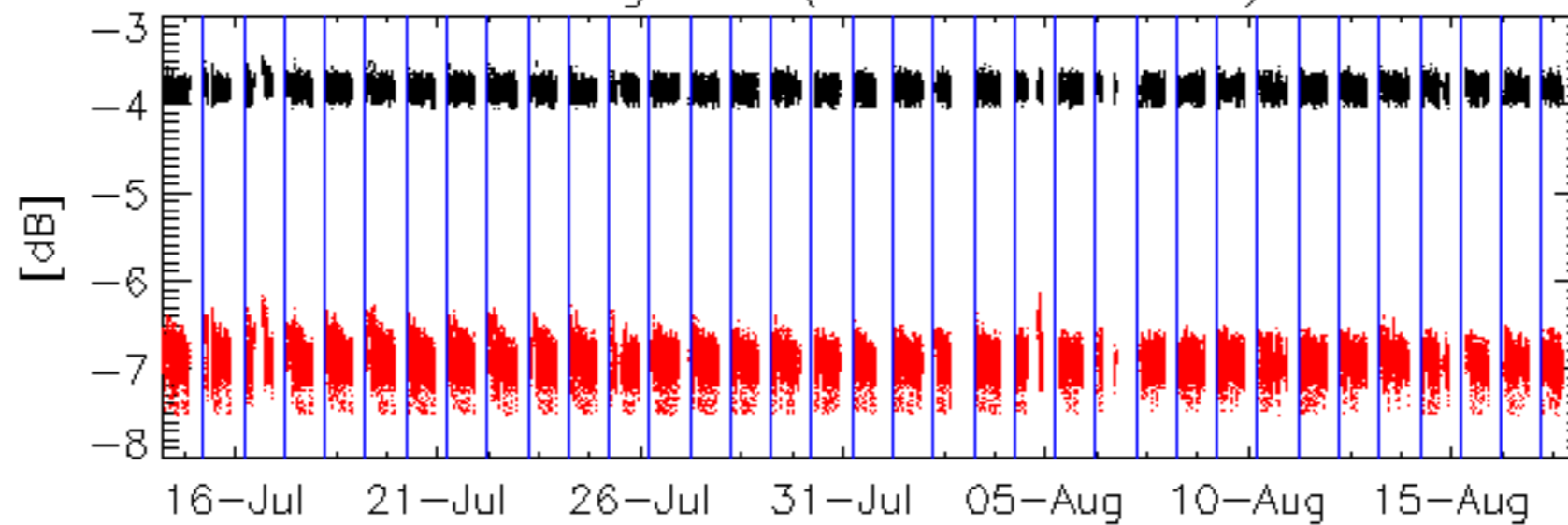
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

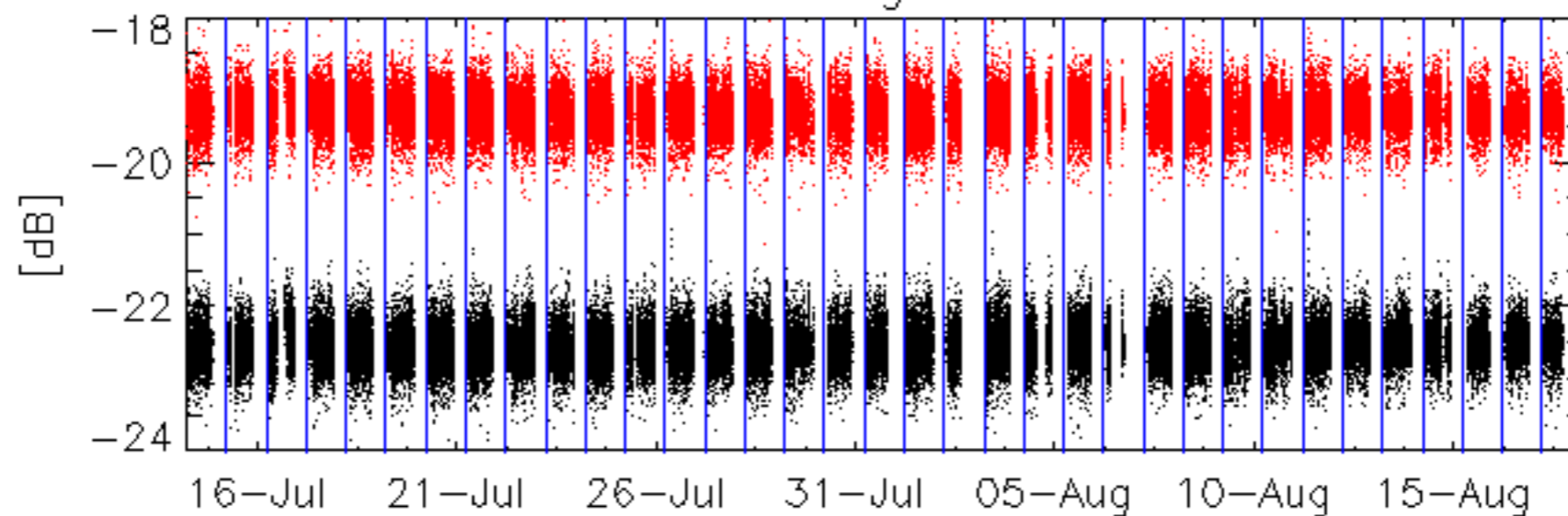
Evolution Doppler error versus ANX



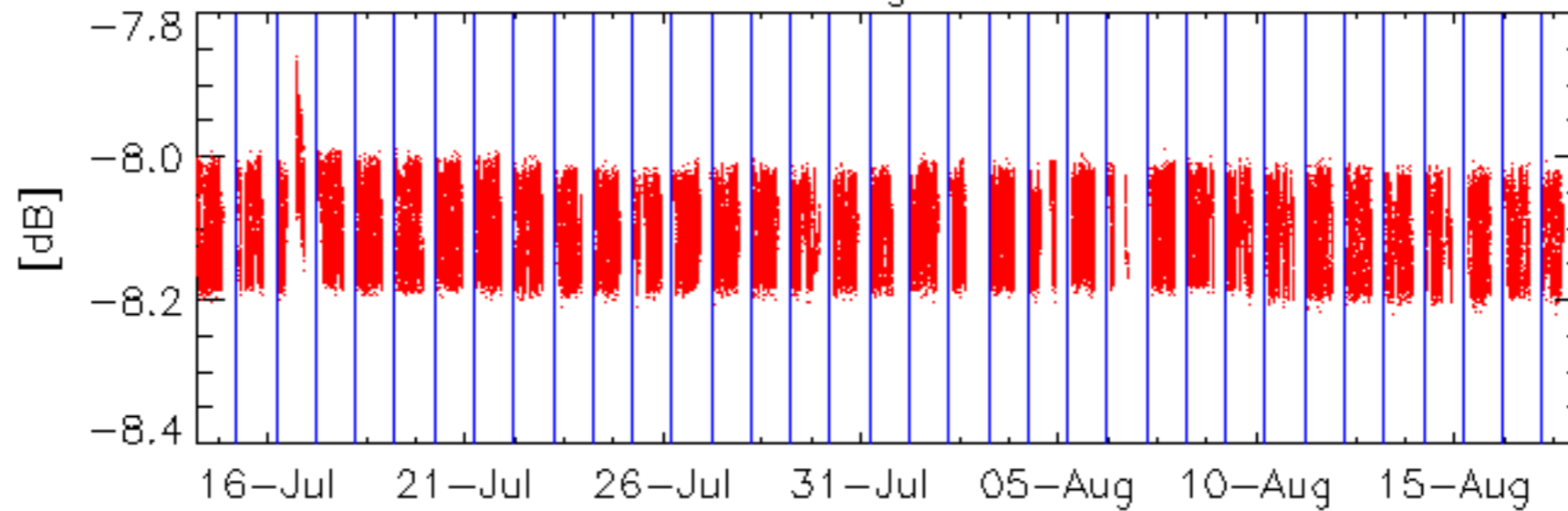
Average P1 (row 3 & row 10)



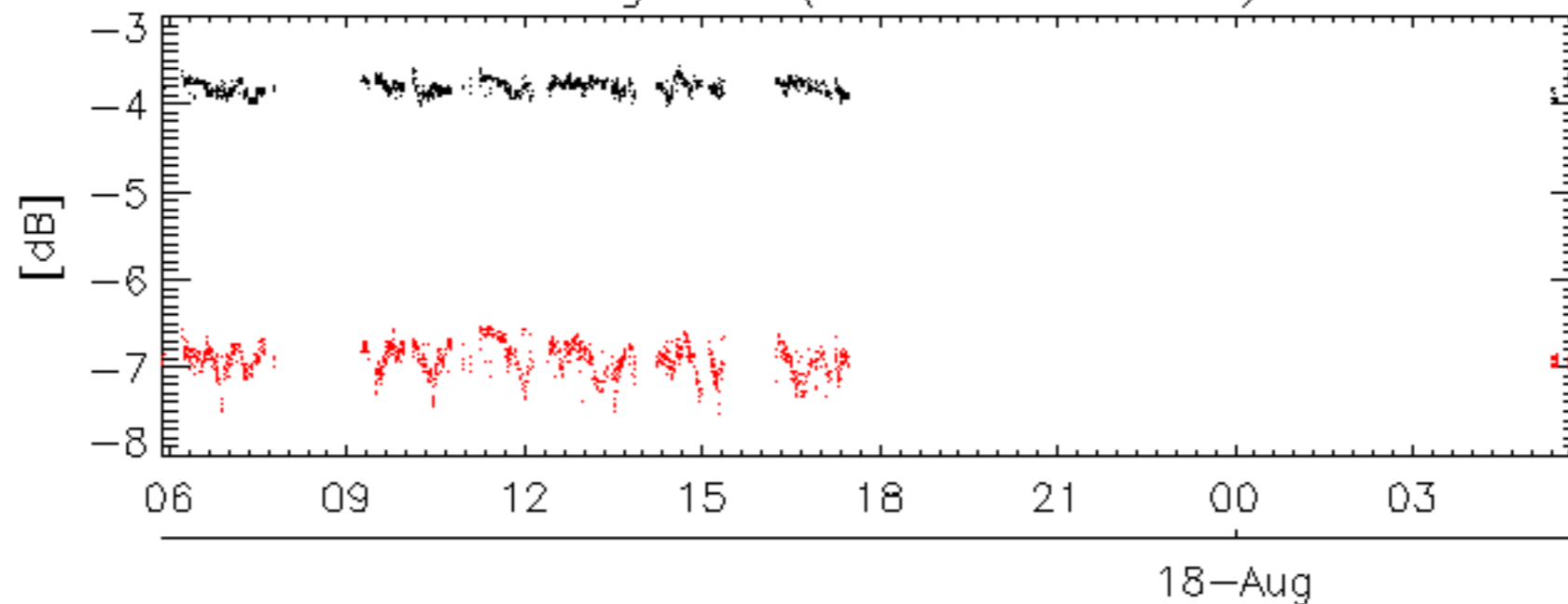
Average P2



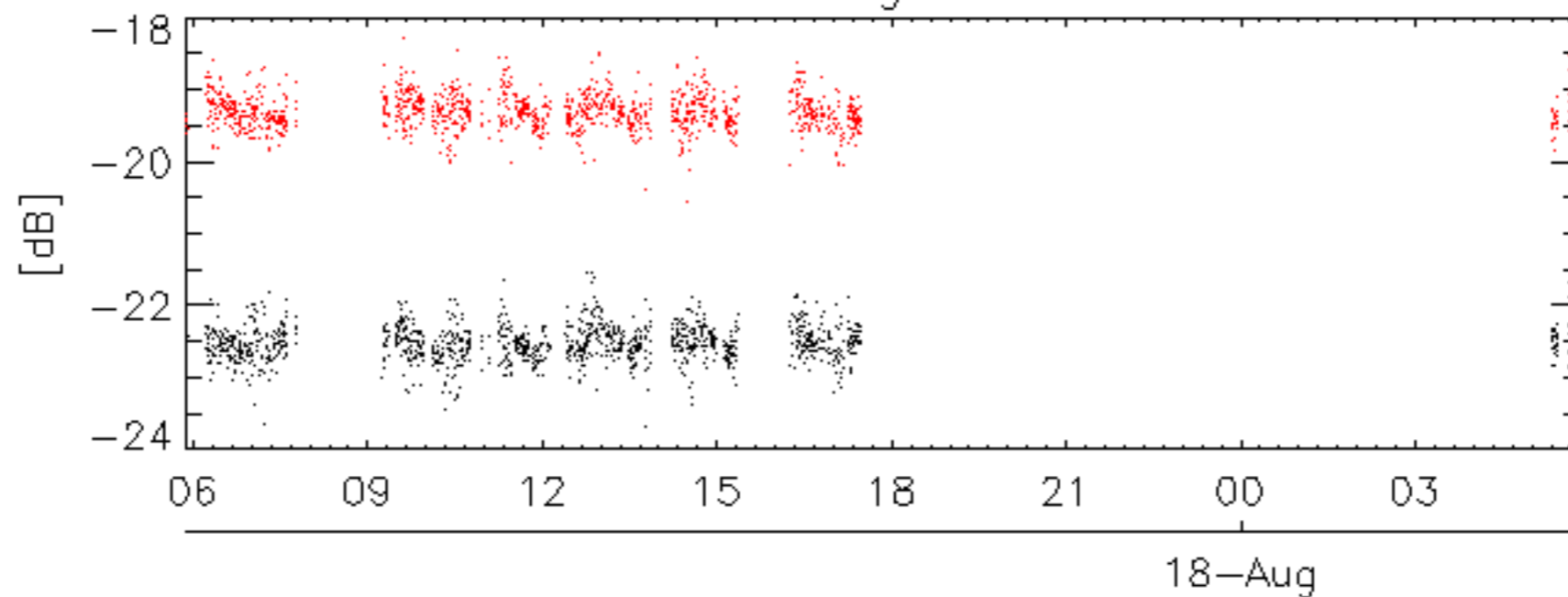
Average P3



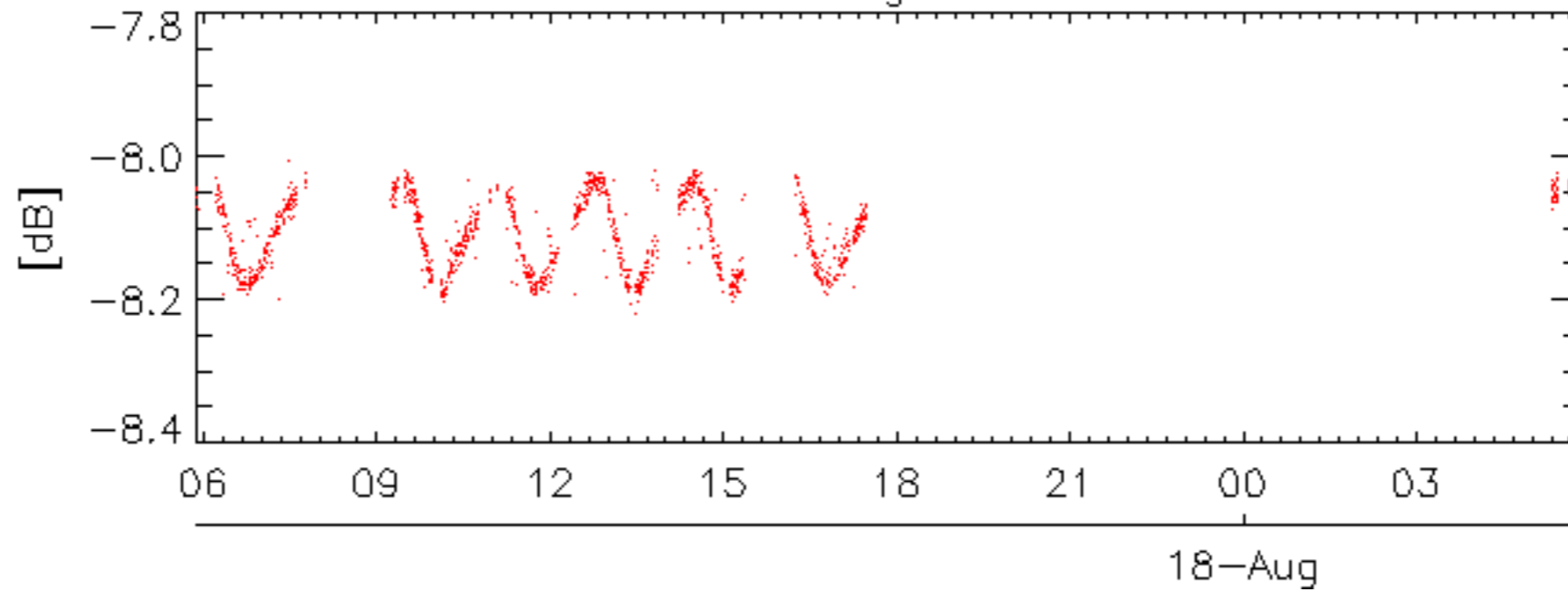
Average P1 (row 3 & row 10)

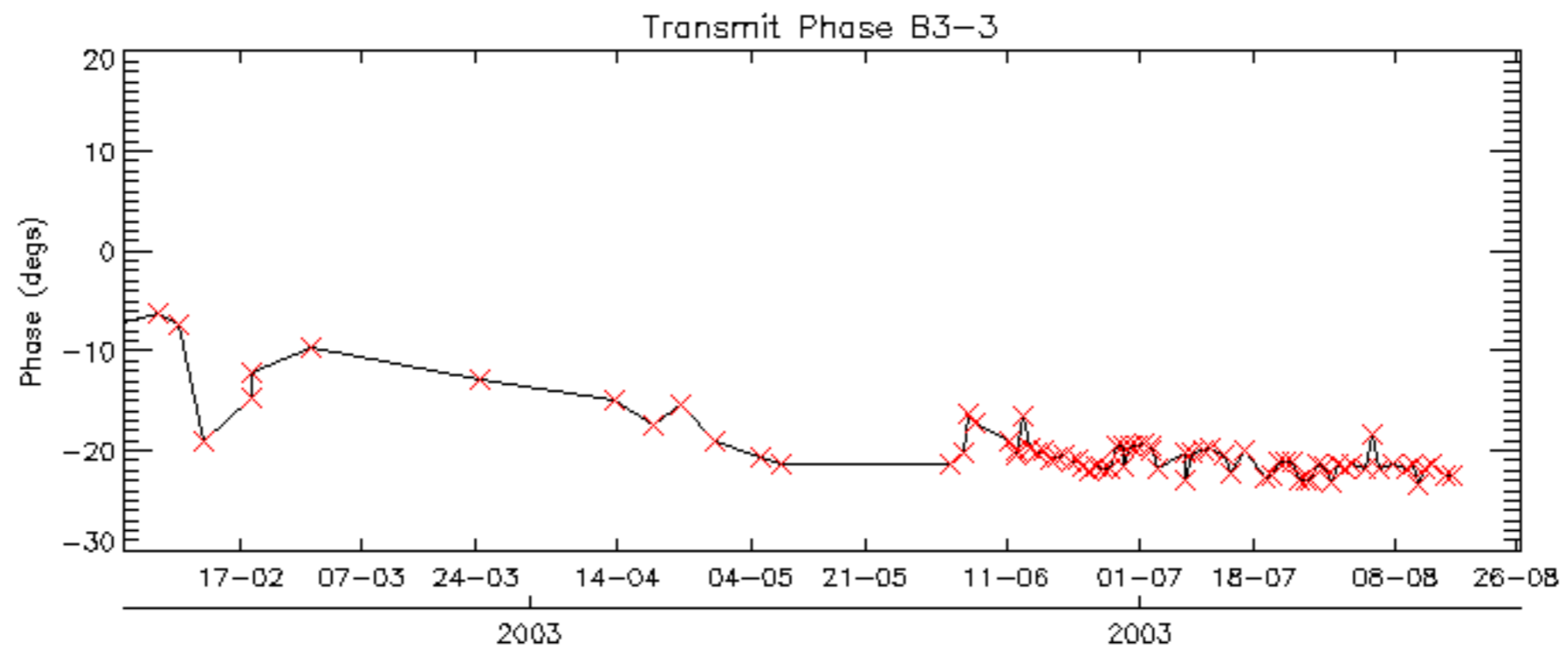


Average P2



Average P3





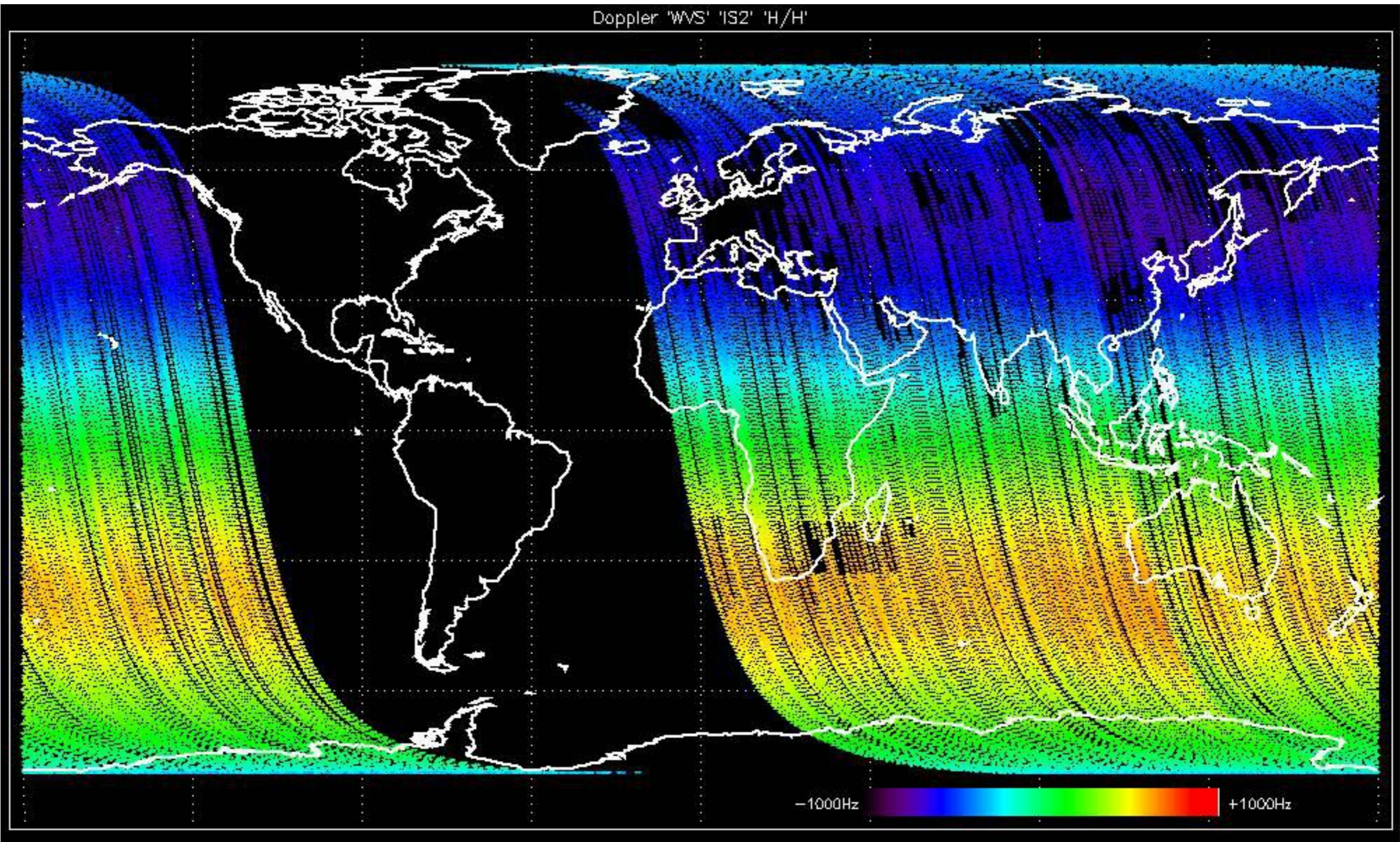
No anomalies observed on available browse products

No anomalies observed.

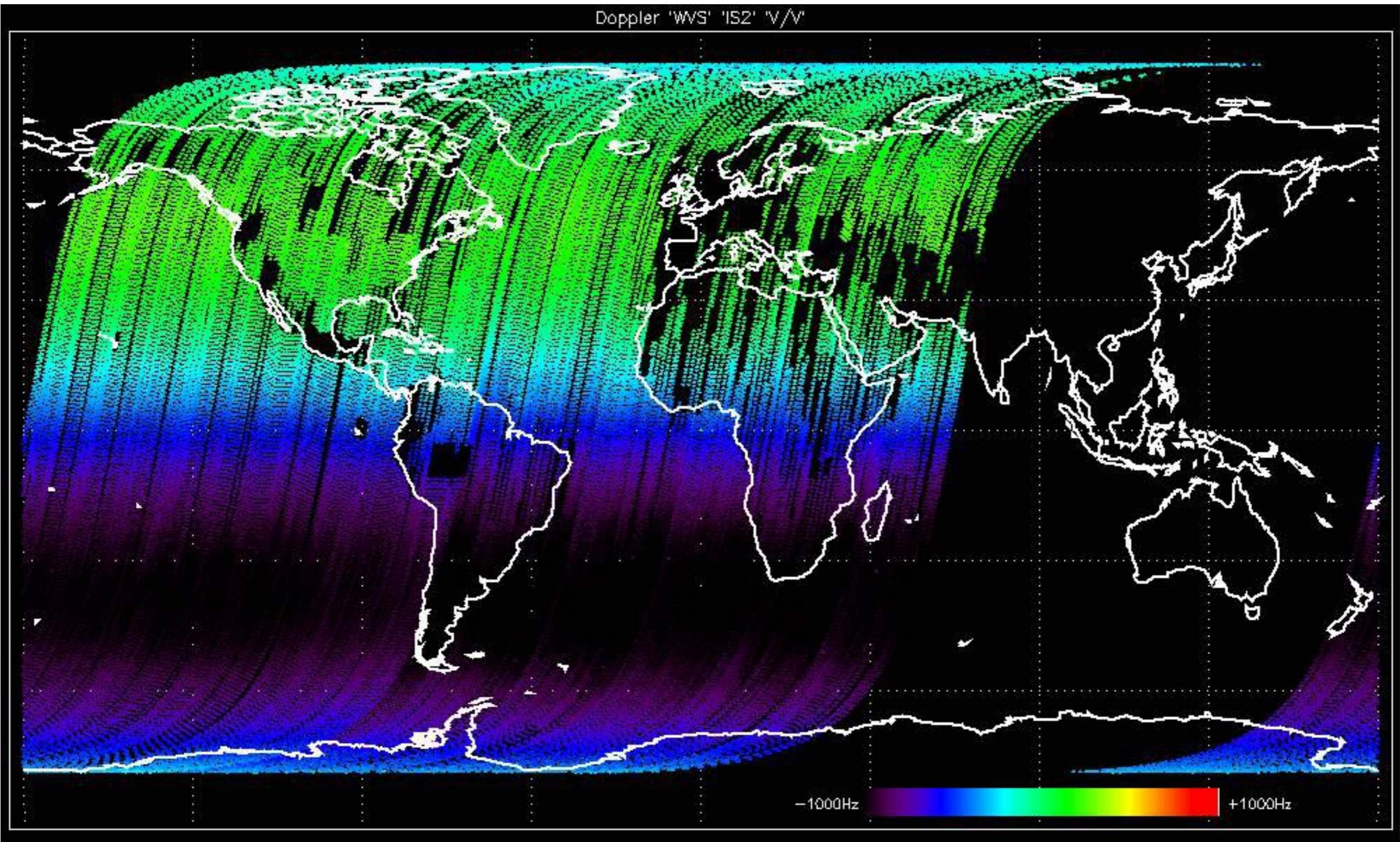
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

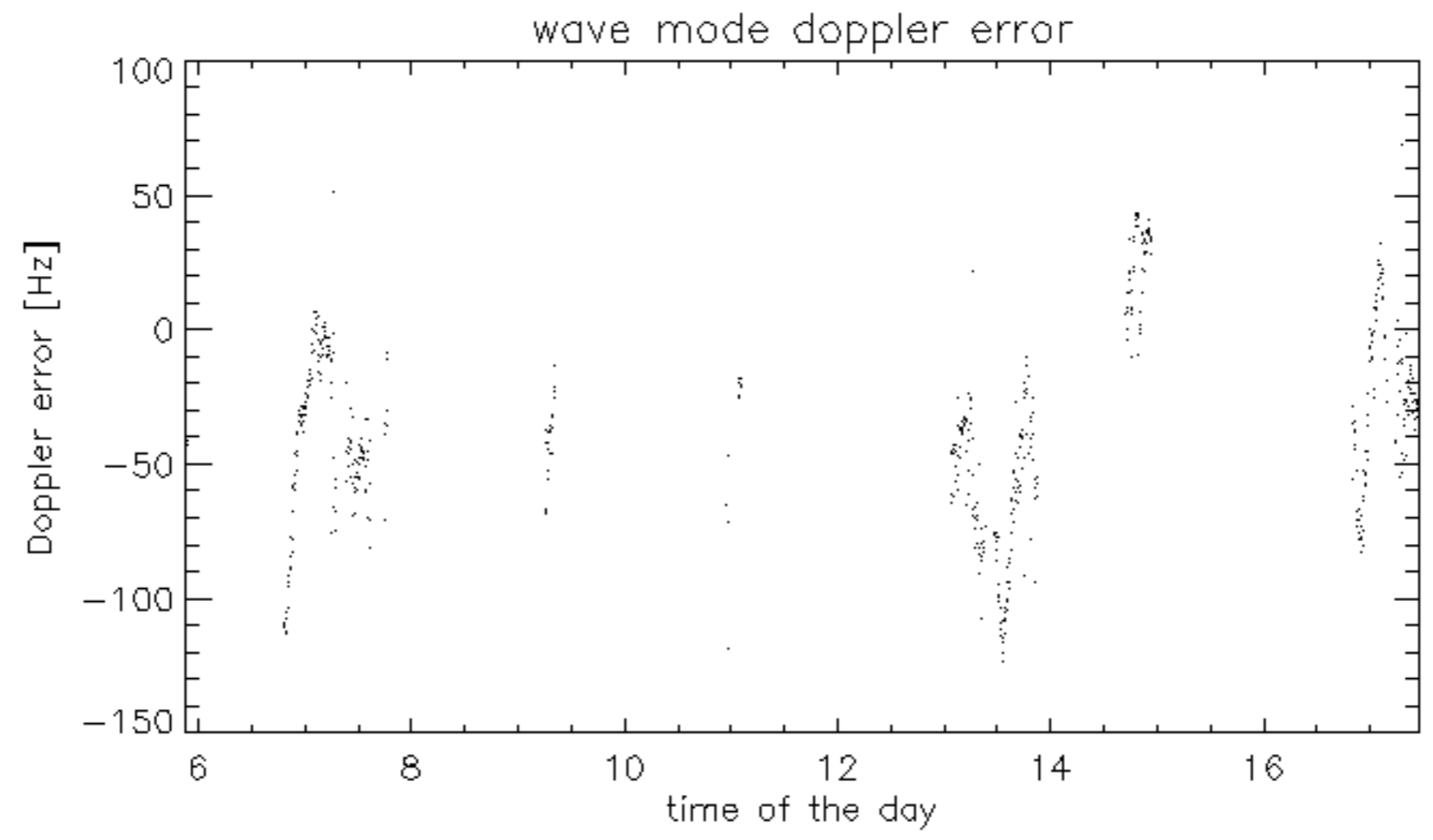
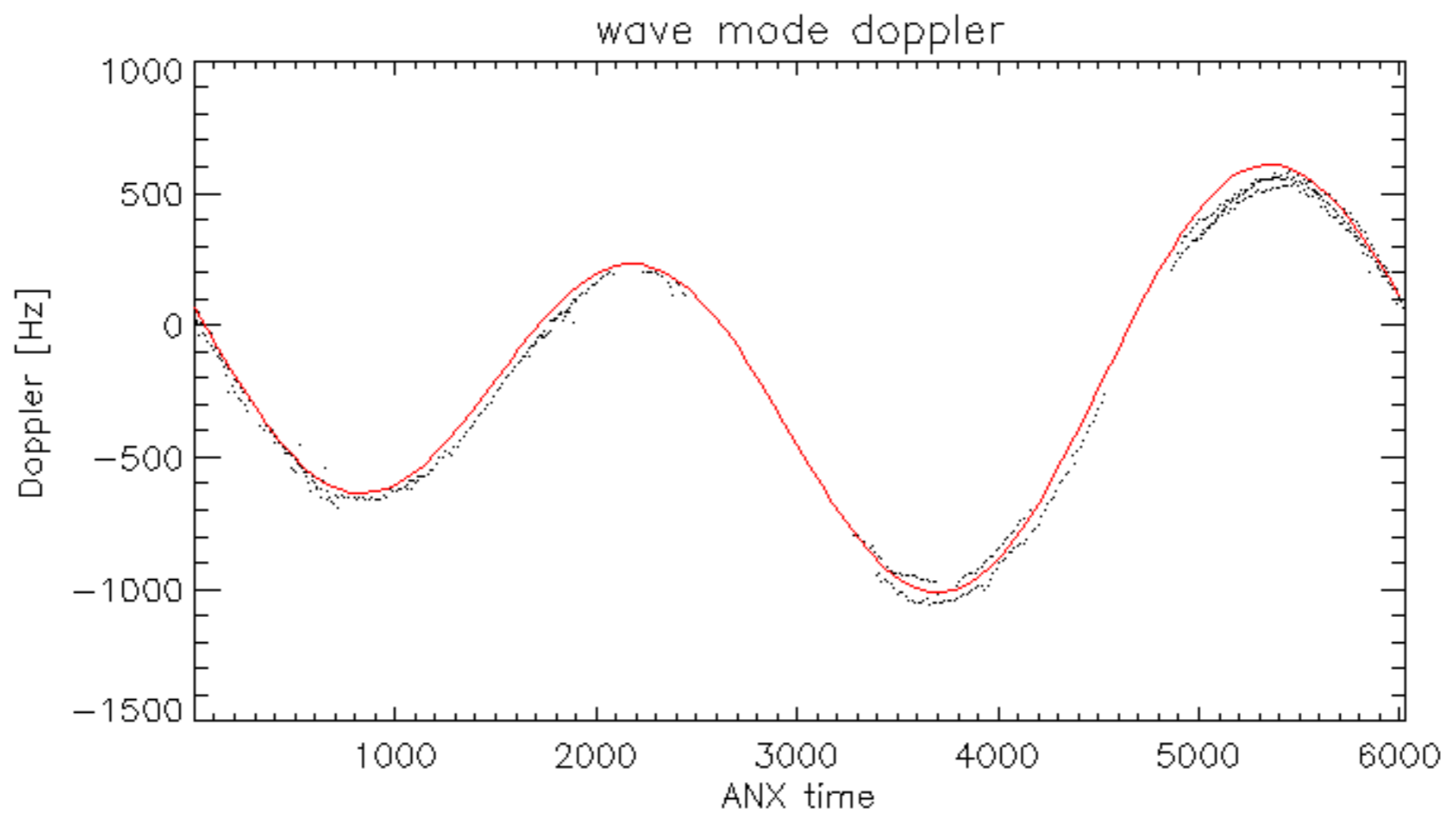
No anomalies observed in Doppler evolution.
Doppler analysis performed over the last 60 days

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

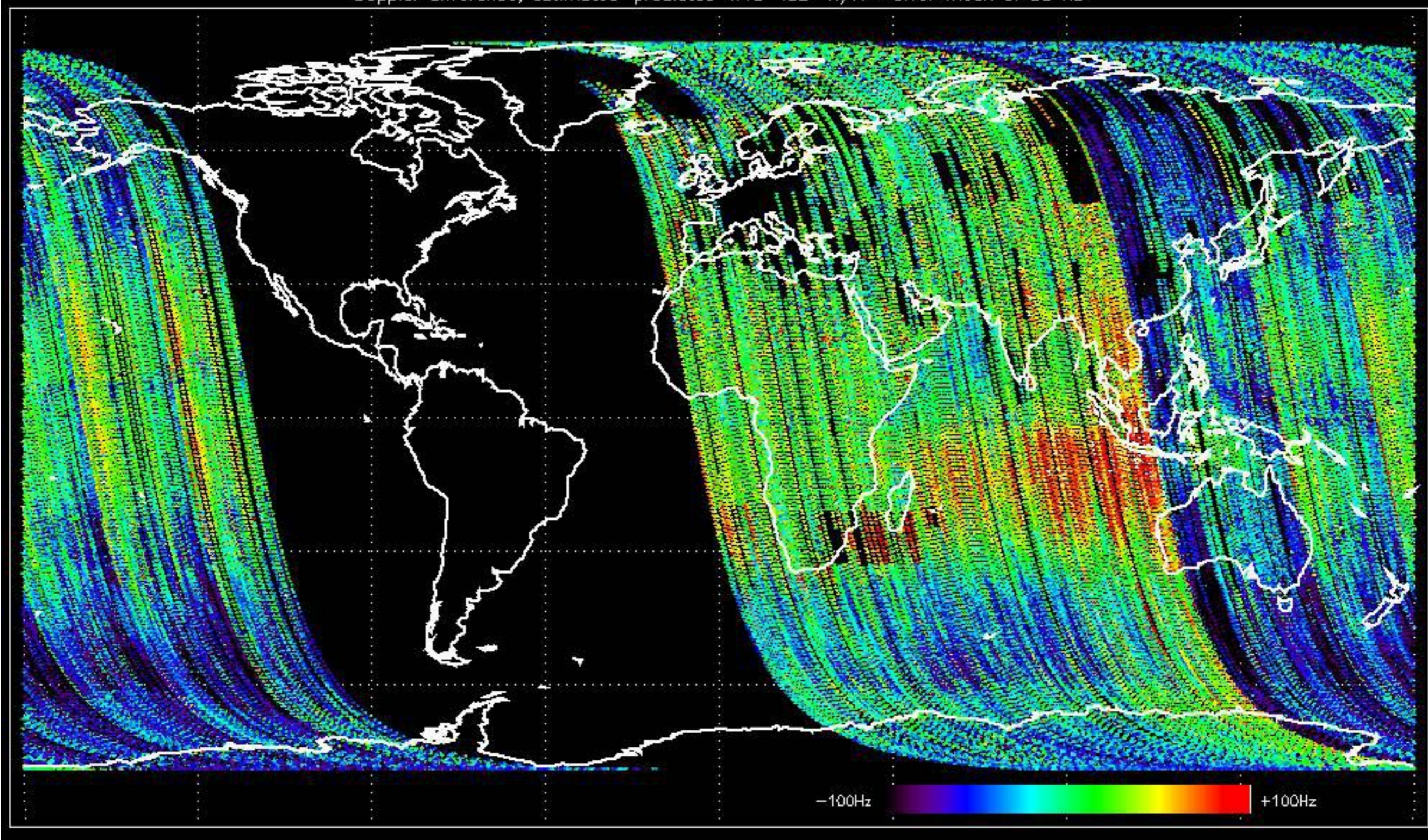


Doppler 'WVS' 'ISZ' 'V/V'

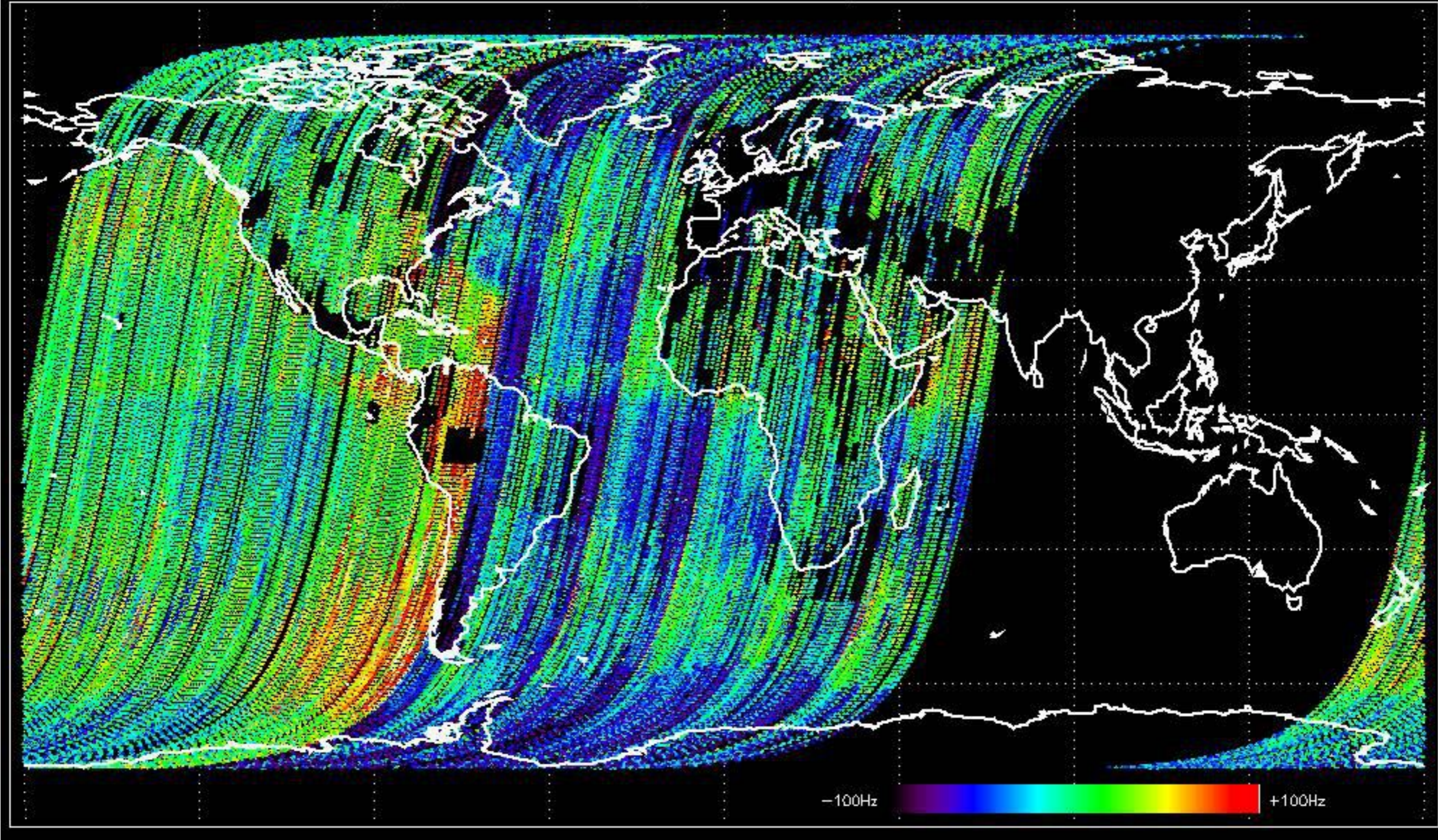




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



Last MS products available for analysis acquired on 16-Aug-2003 (H and V polarization):

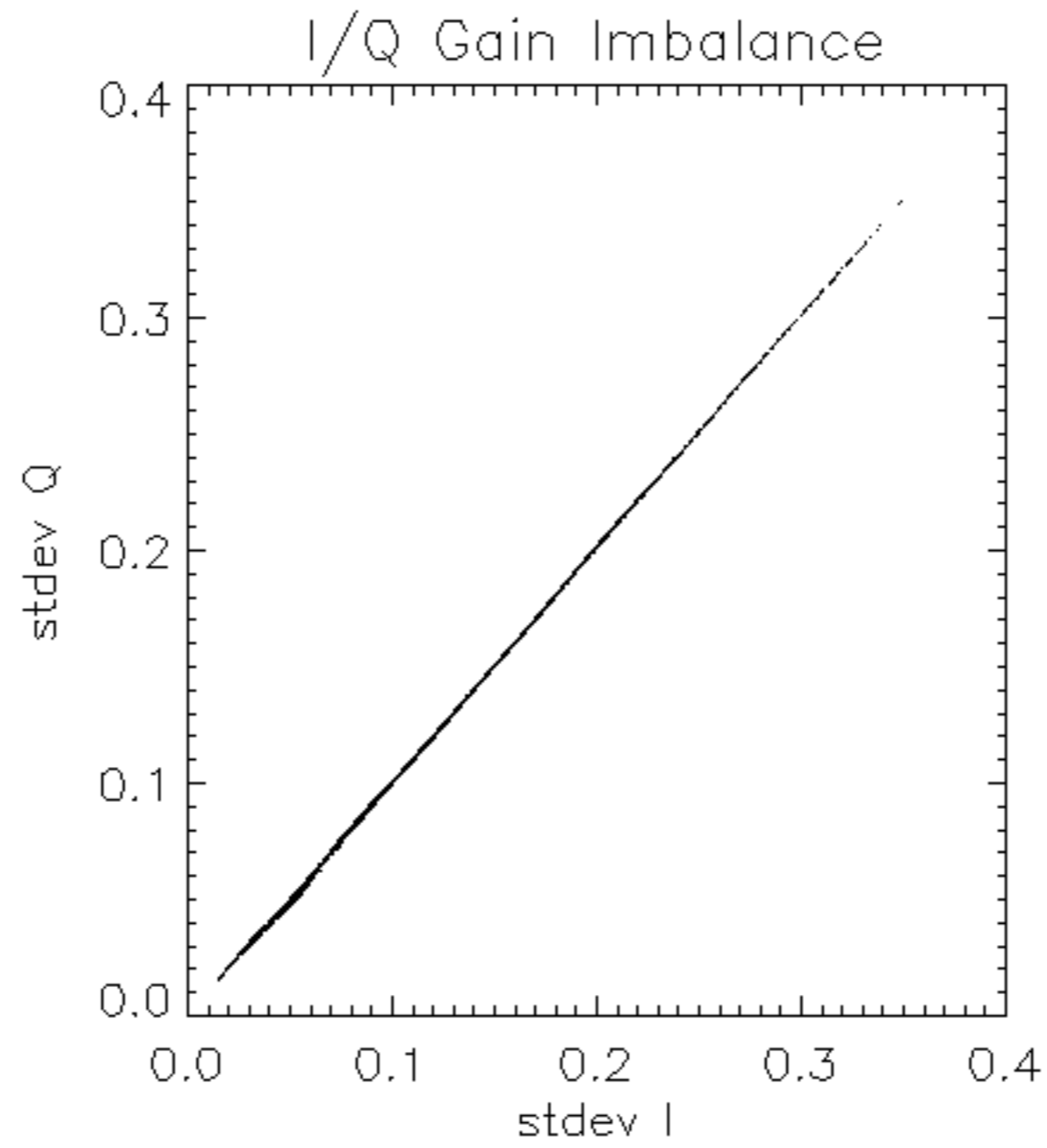
-ASA_MS__0PNPDK20030816_191241_000000152019_00070_07639_0086.N1

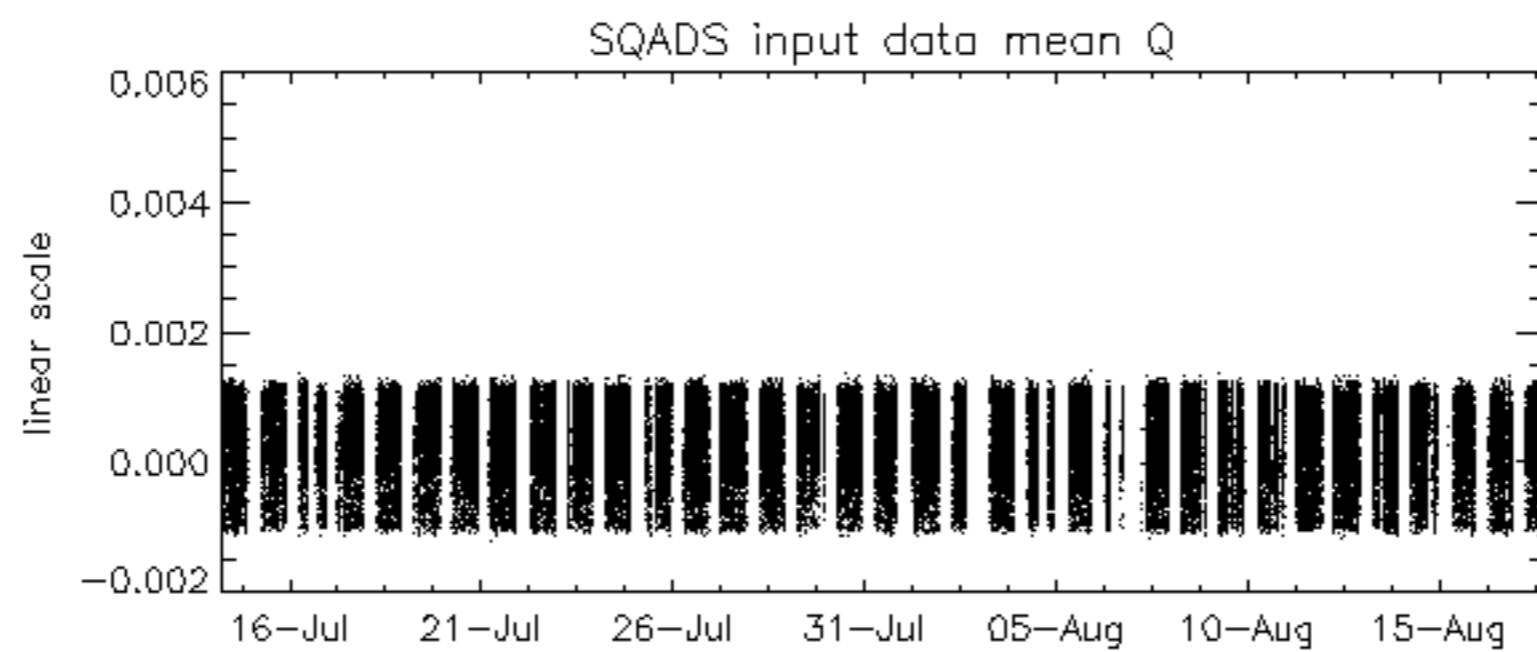
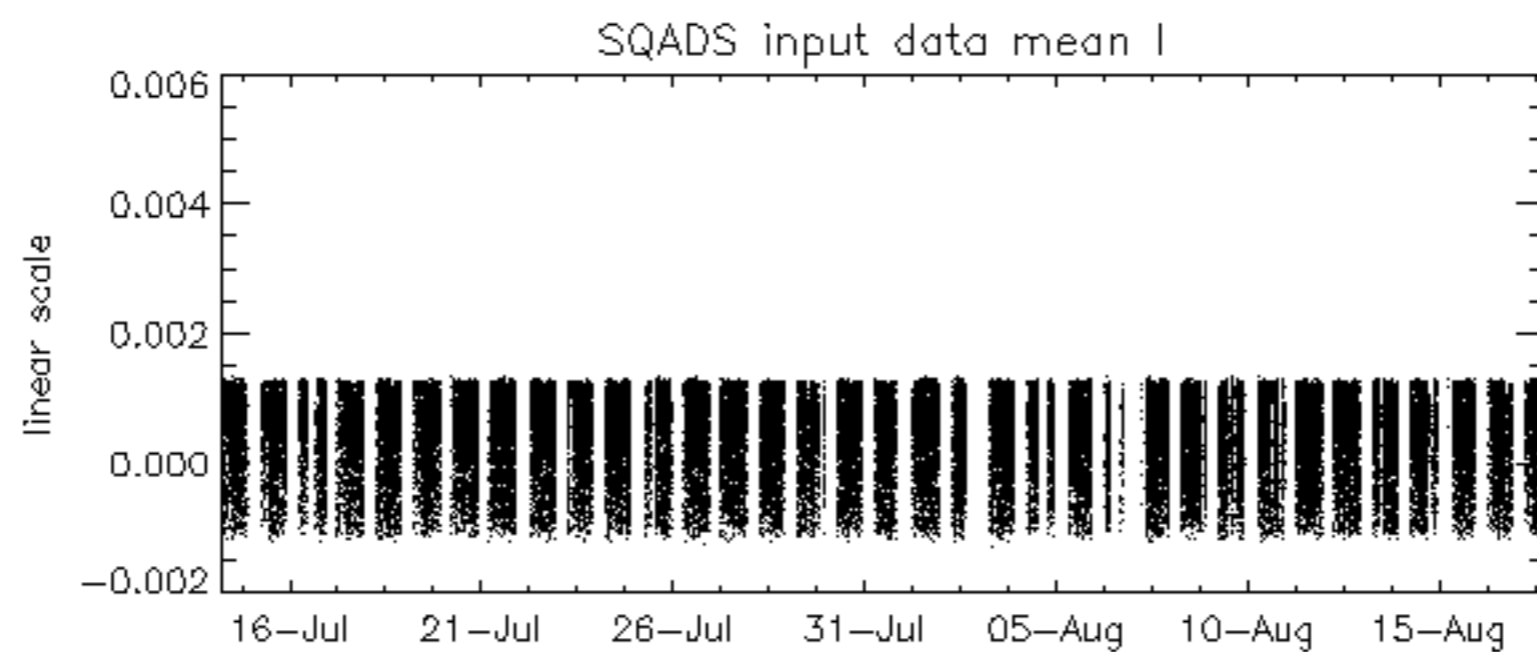
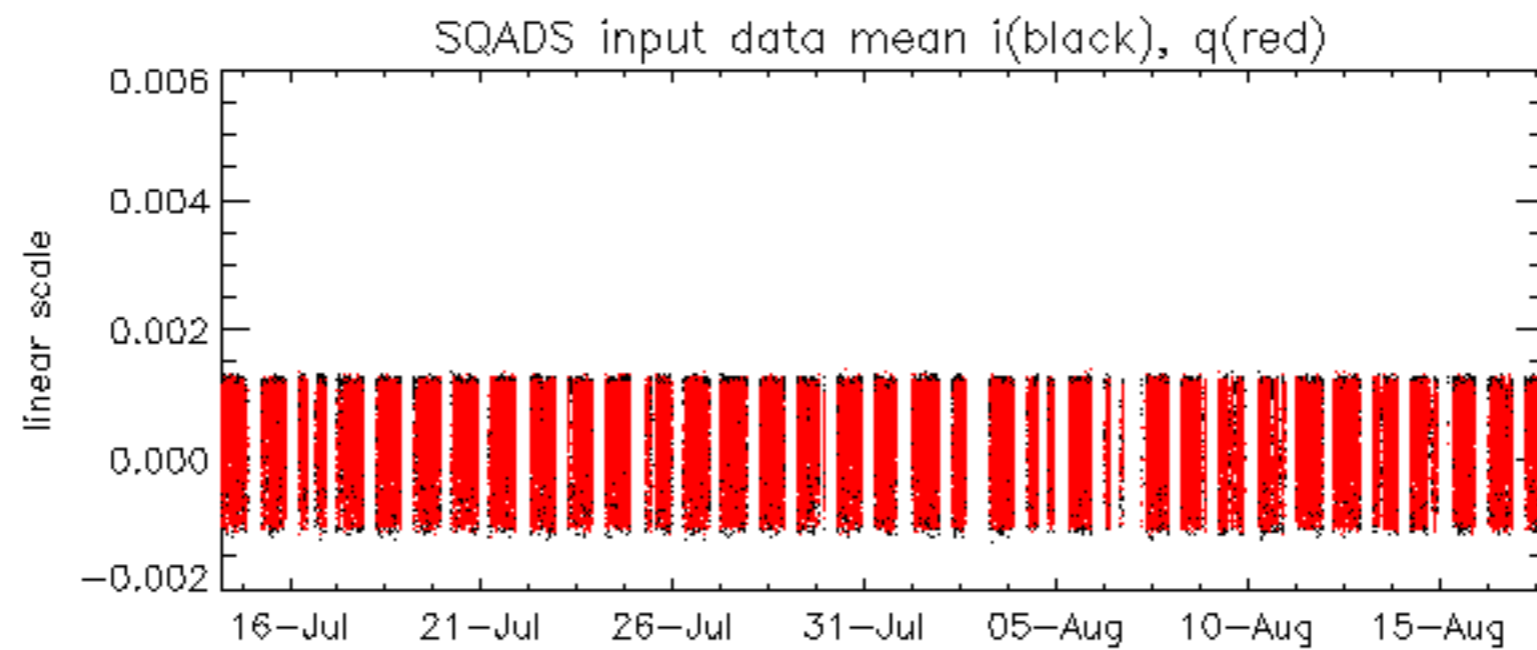
-ASA_MS__0PNPDK20030816_191421_000000152019_00070_07639_0087.N1

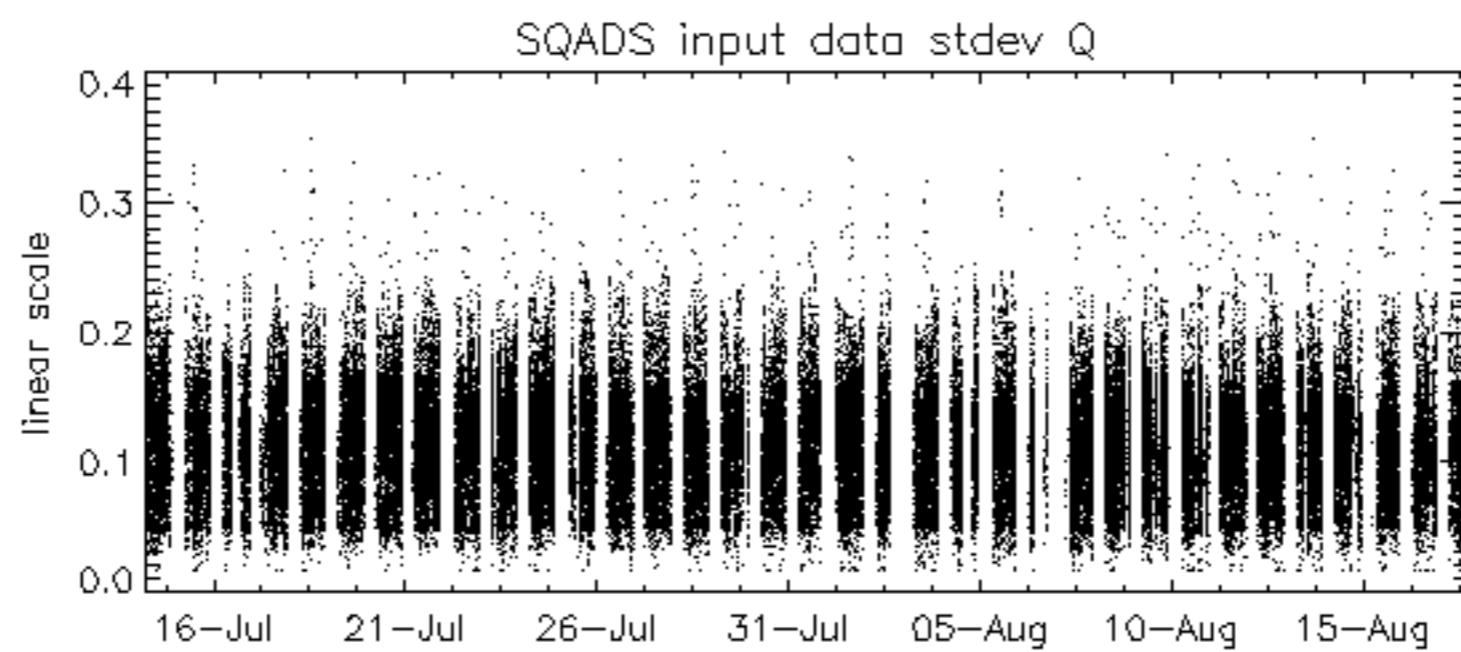
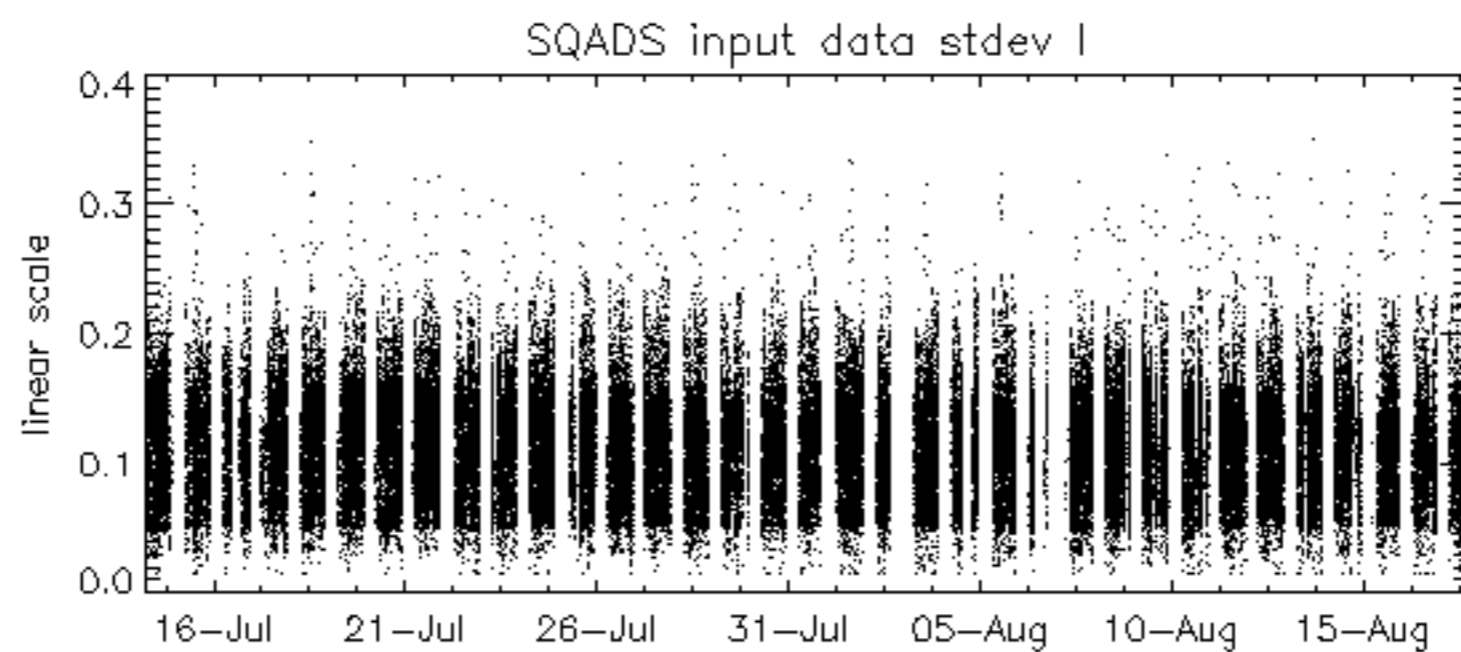
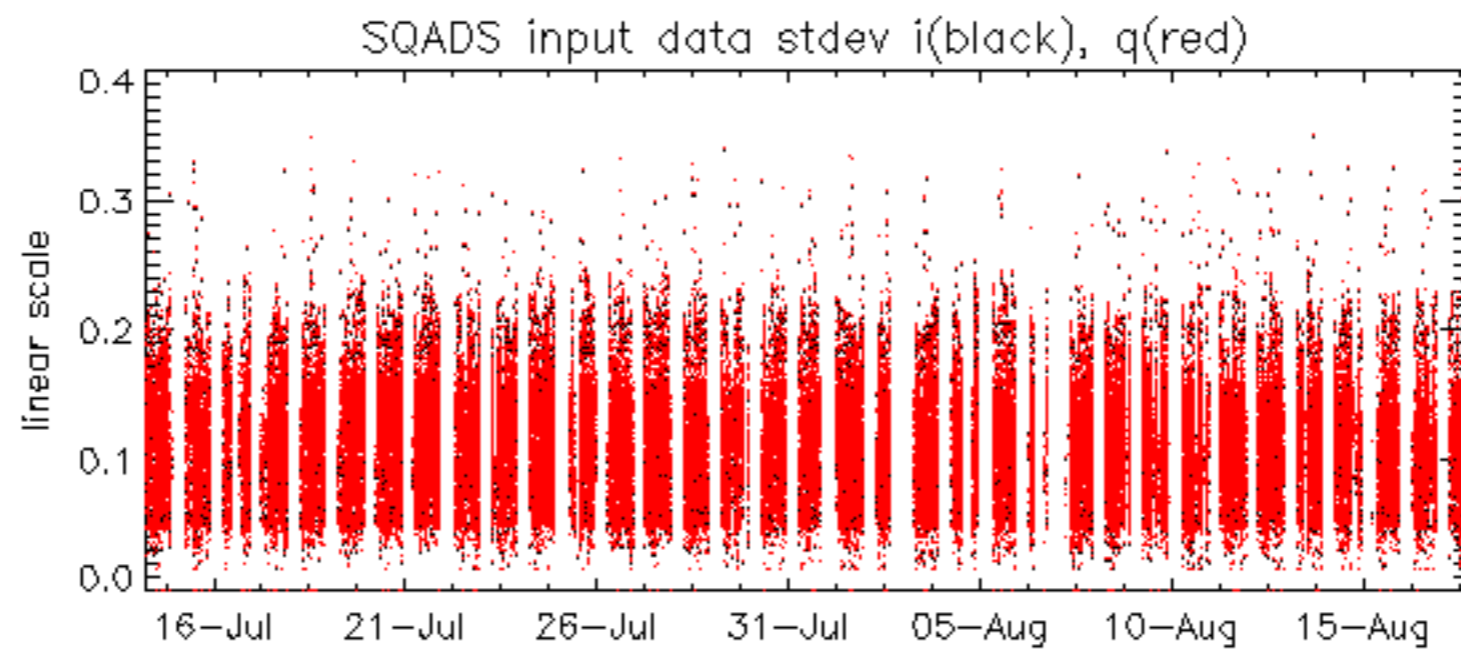
No anomalies observed.

The figure below shows a stable configuration for the phase of TR module 3 on Tile B3.

No anomalies observed.







No unavailabilities during the reported period.