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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 on 05-Aug-2003 (H and V polarization):
 -ASA_MS__0PNPDK20030805_195840_000000152018_00414_07482_0064.N1
 -ASA_MS__0PNPDK20030805_200020_000000152018_00414_07482_0063.N1

No anomalies detected.
 The drift in phase for TR module 3 on Tile B3 has decreased to a stable configuration as shown in the figure below.



Polarisation	Start Time
V	20030805 200020
H	20030805 195840

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	-3.81694	-22.5388	-8.10014
	stdev	0.00529172	0.0614996	0.00220293
10	mean	-6.91635	-19.3289	-8.10014
	stdev	0.0194526	0.0601409	0.00220293



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.86693	-22.5669	-8.10211
	stdev	0.0875729	0.0626831	0.00256303
10	mean	-6.97902	-19.3254	-8.10211
	stdev	0.416769	0.0615875	0.00256303



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	0.000478882
	stdev	3.03039e-07
MEAN Q	mean	0.000309997

stdev	3.16504e-07
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5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115402
	stdev	0.00162172
STDEV Q	mean	0.115523
	stdev	0.00165335



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

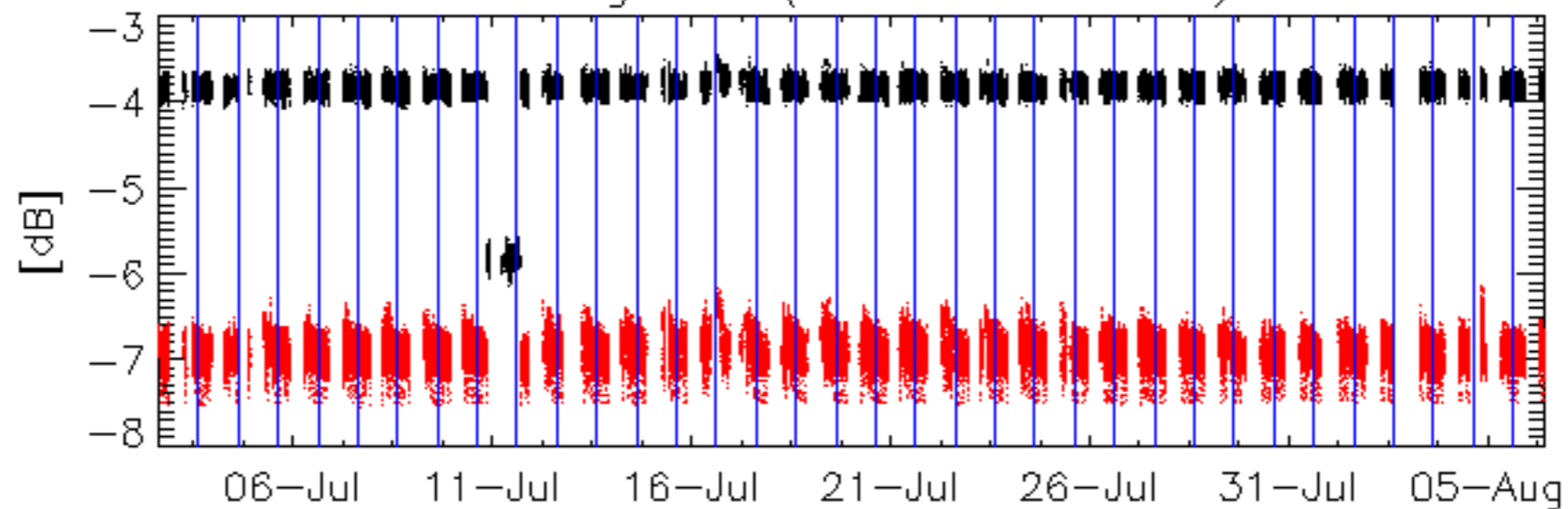
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

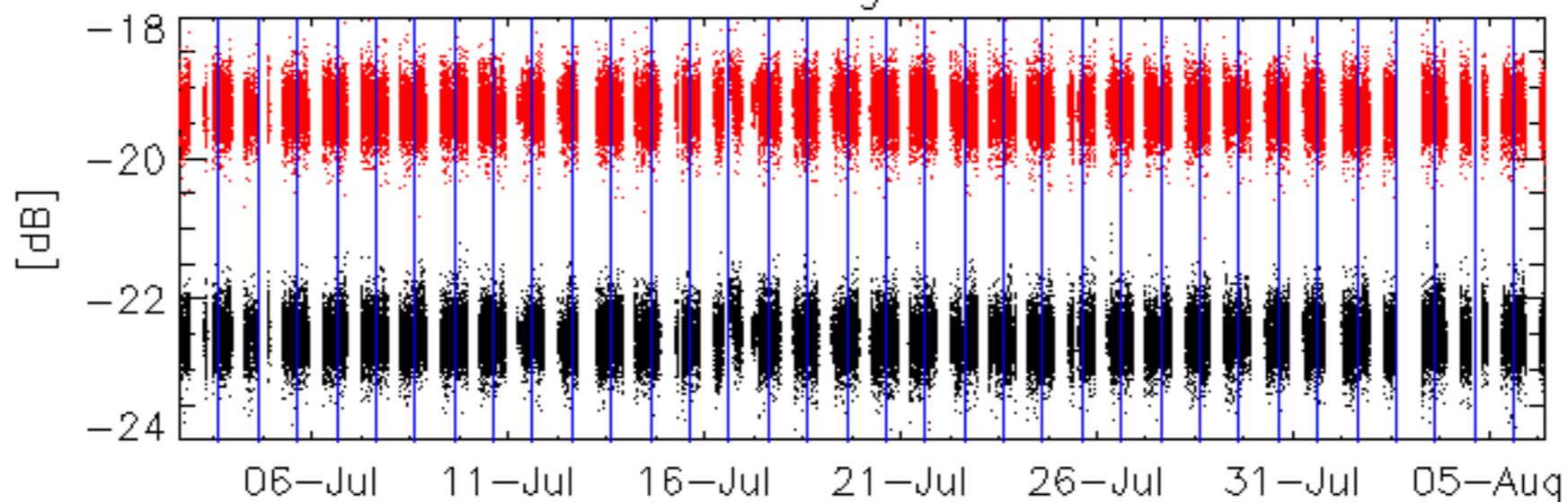
Evolution Doppler error versus ANX



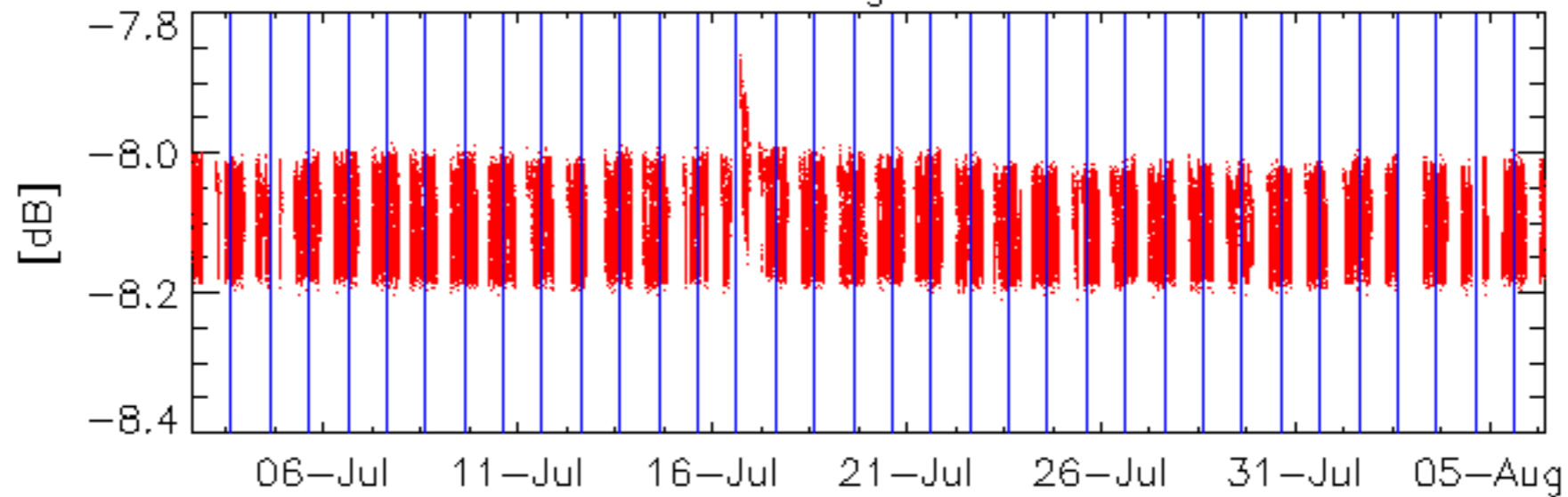
Average P1 (row 3 & row 10)



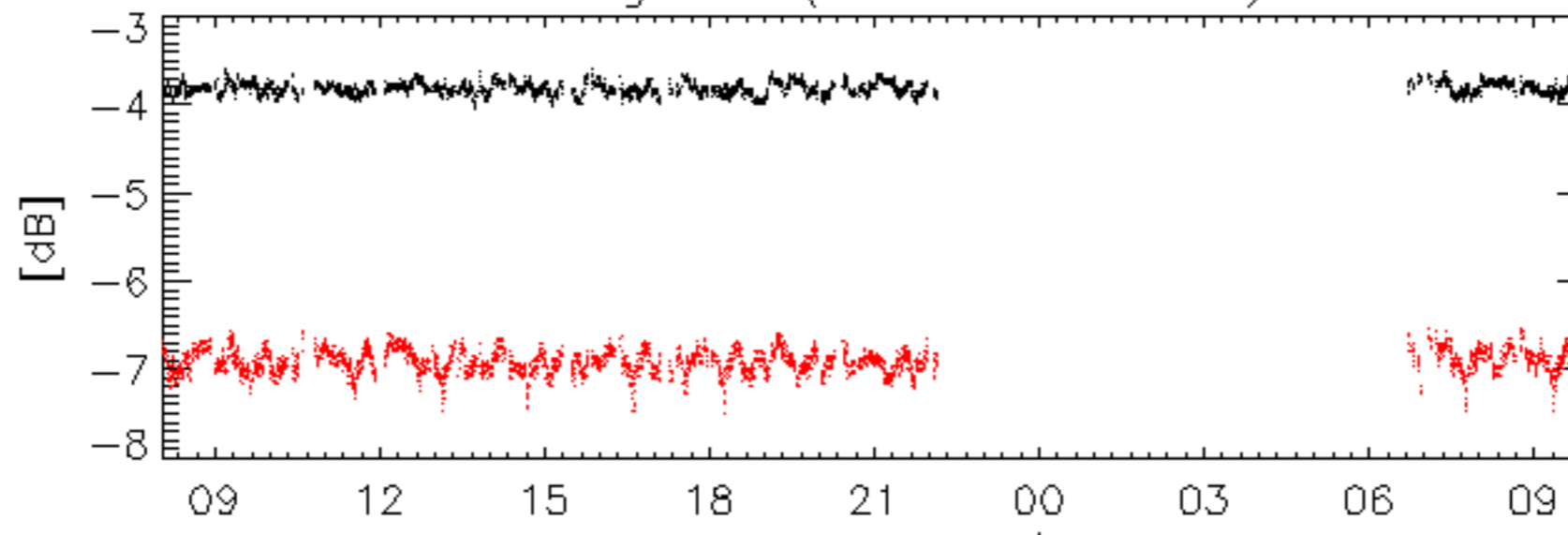
Average P2



Average P3

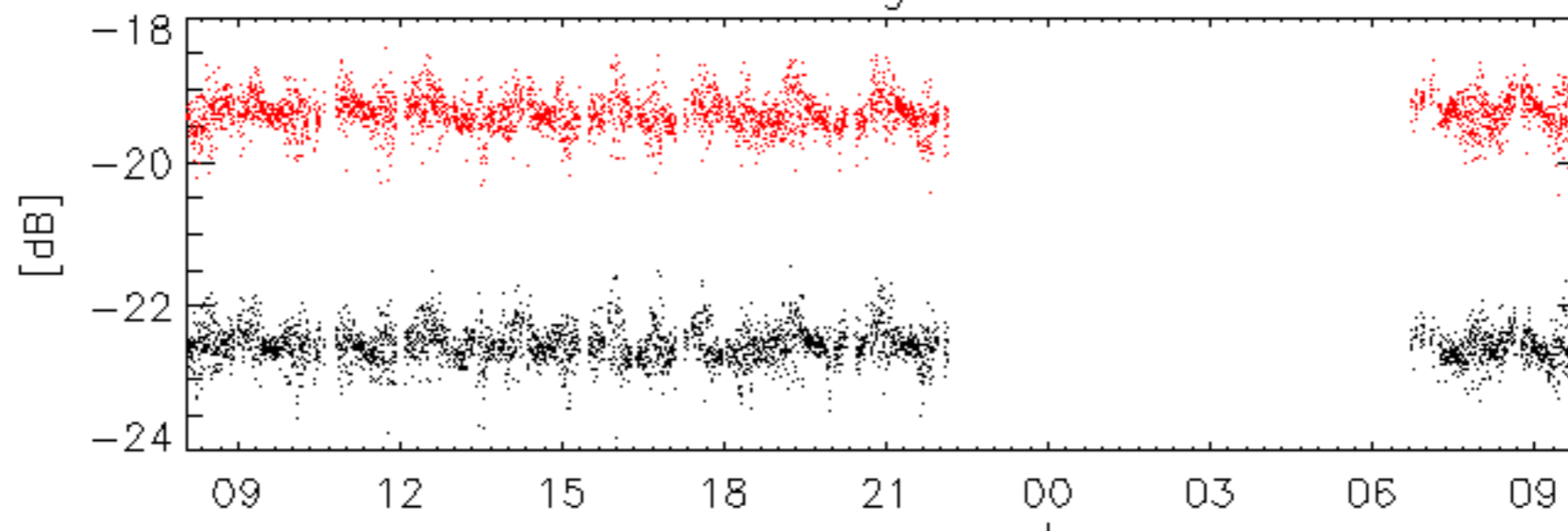


Average P1 (row 3 & row 10)



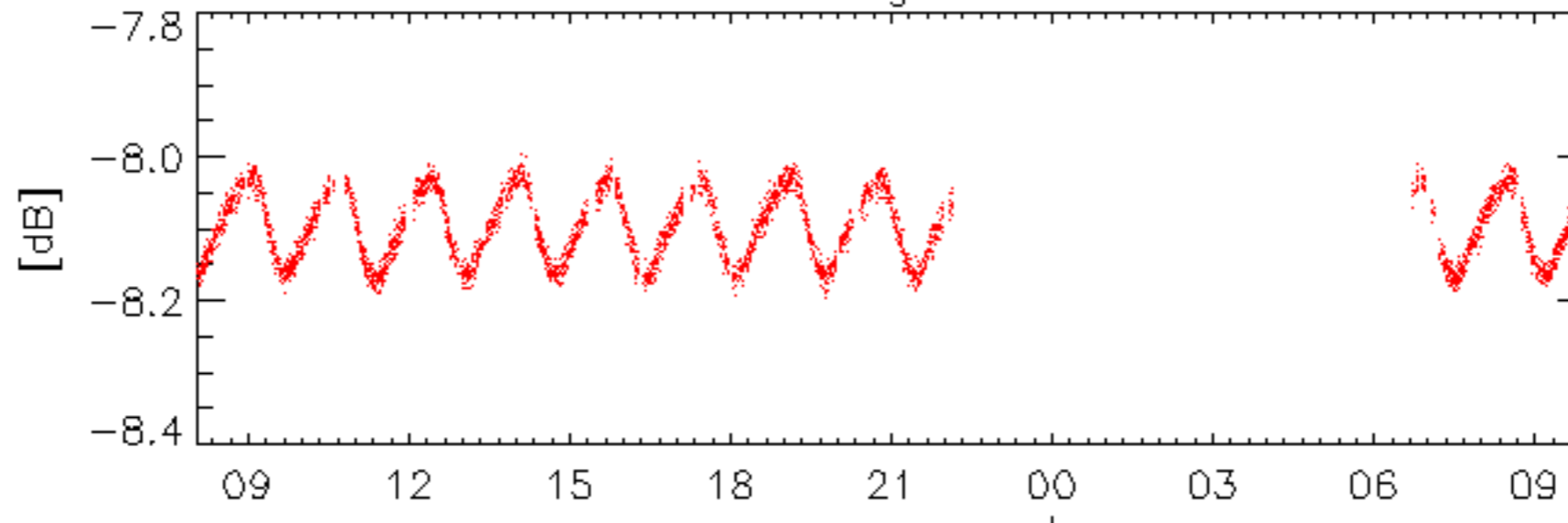
06-Aug

Average P2

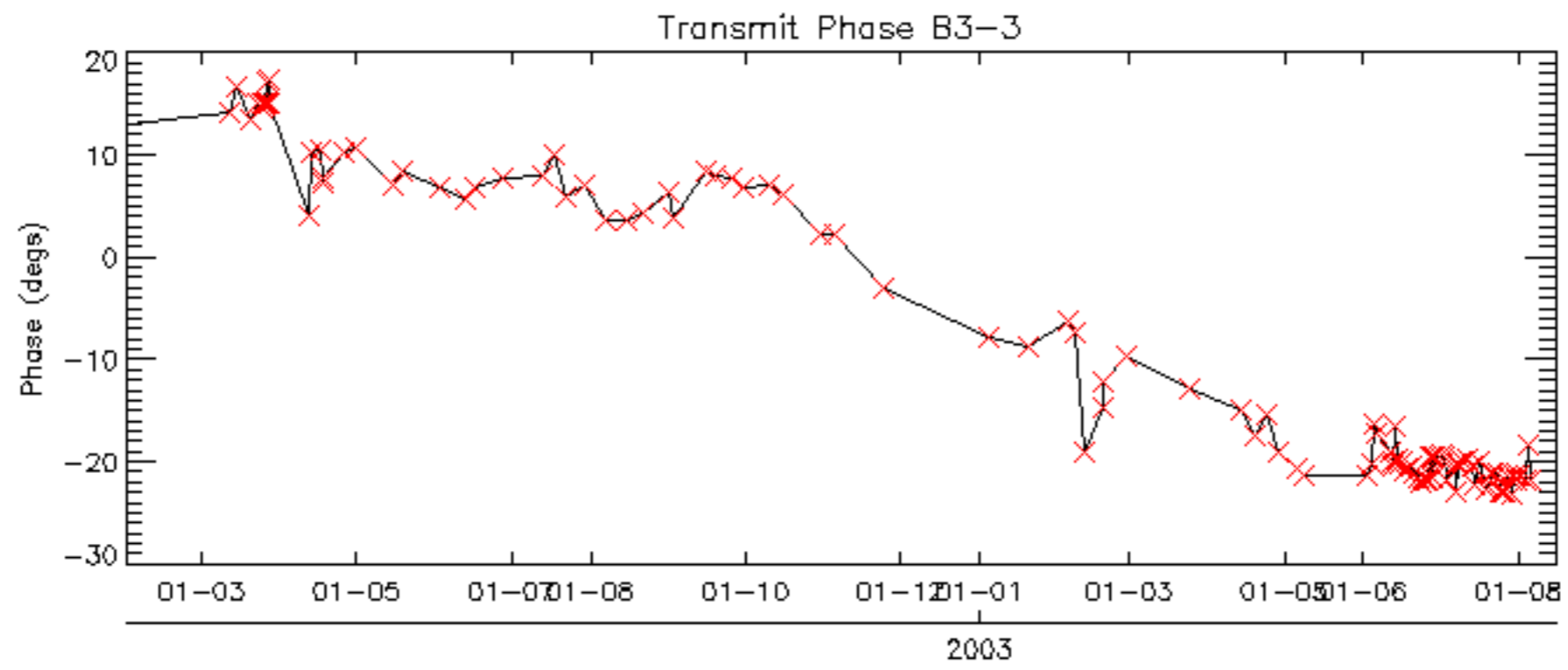


06-Aug

Average P3

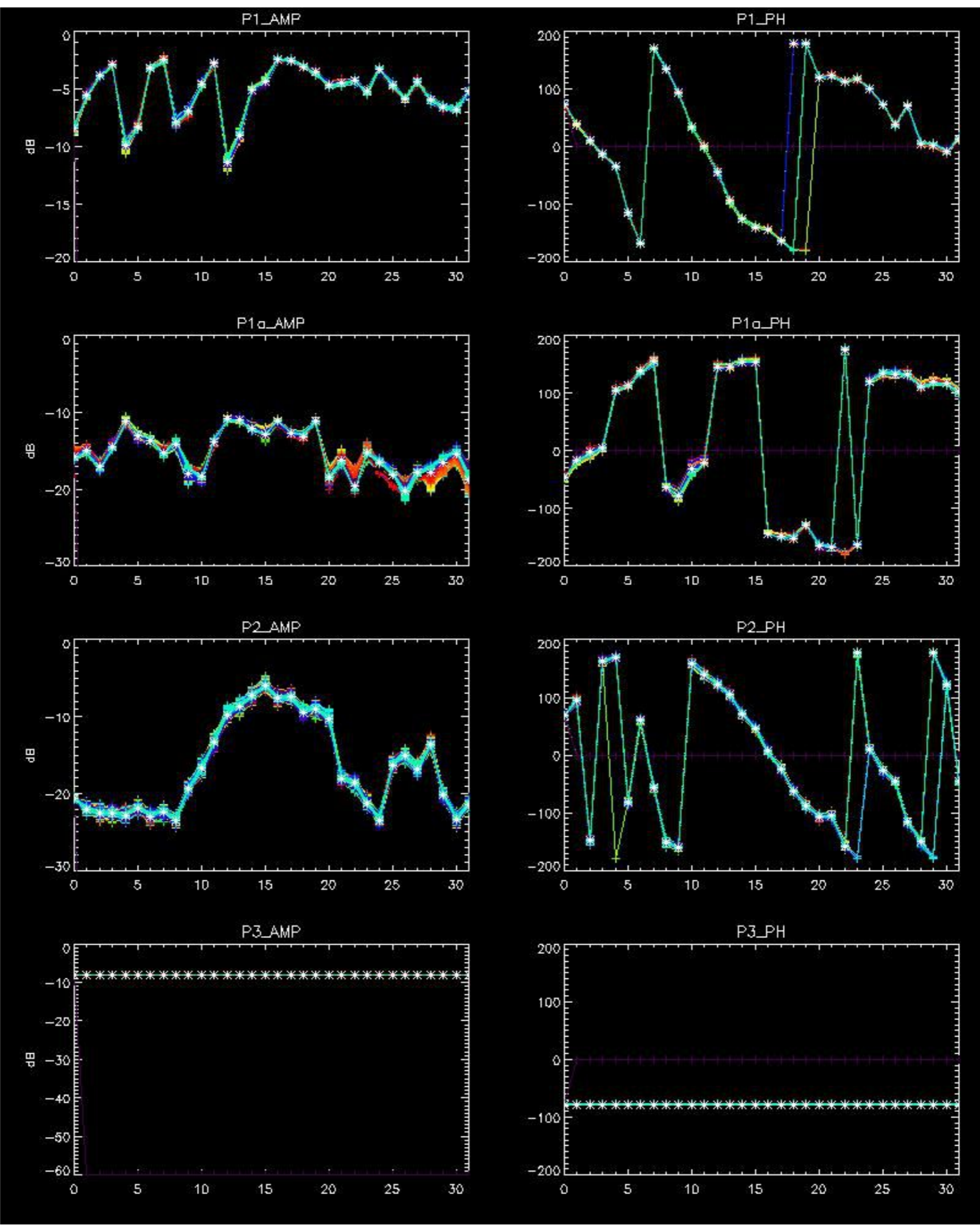


06-Aug



No anomalies observed on available browse products.

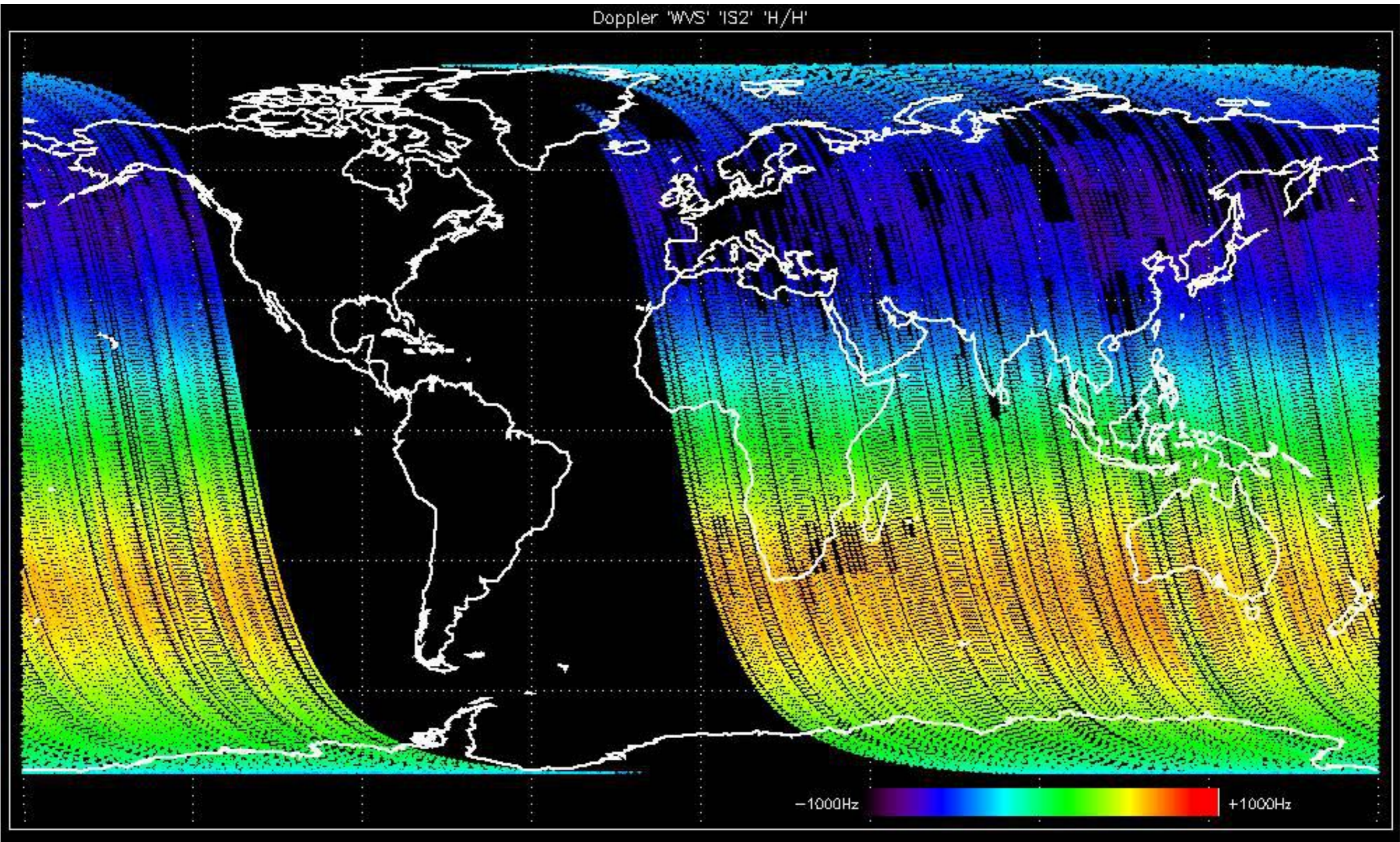
No anomalies observed.



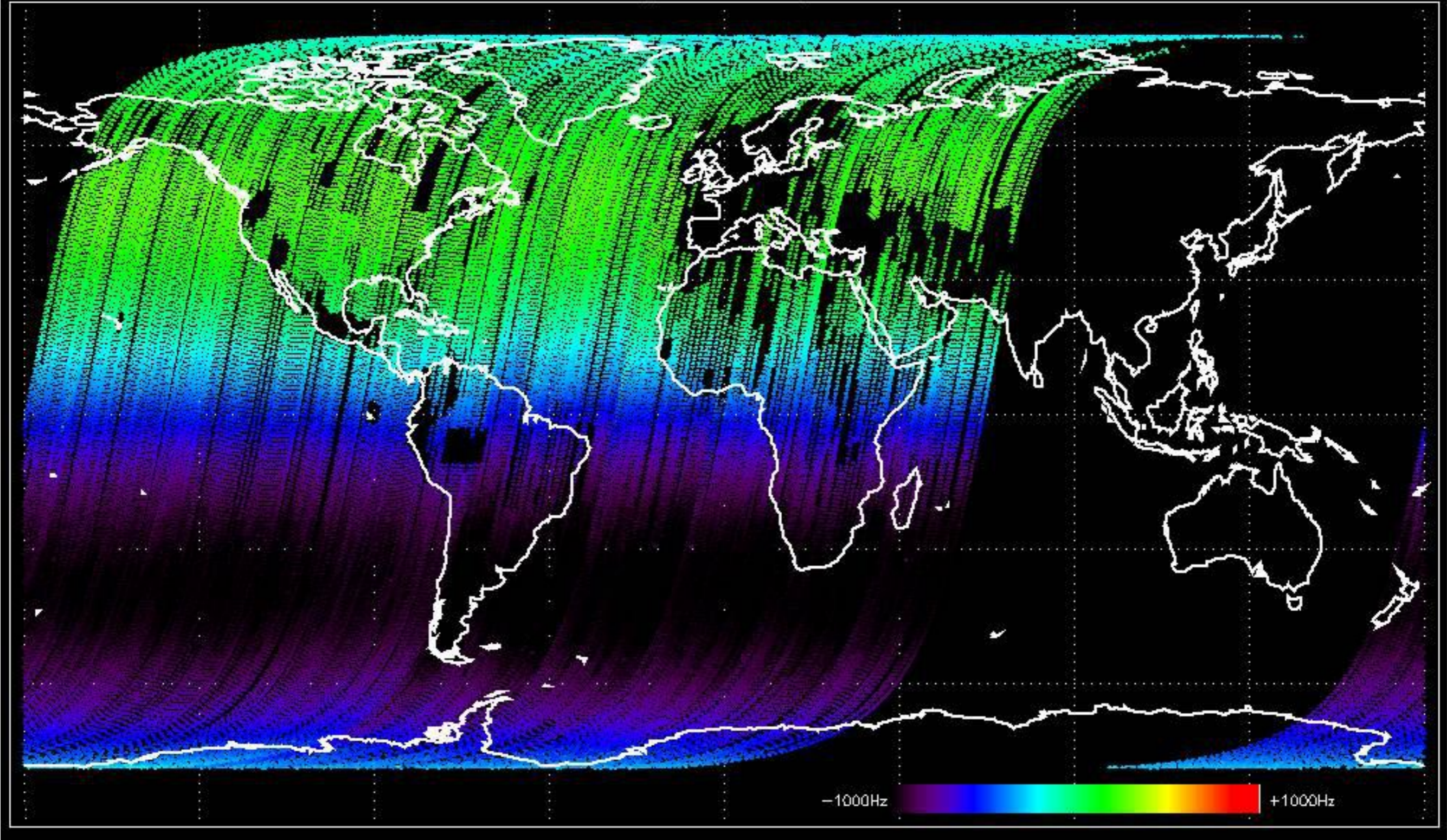
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

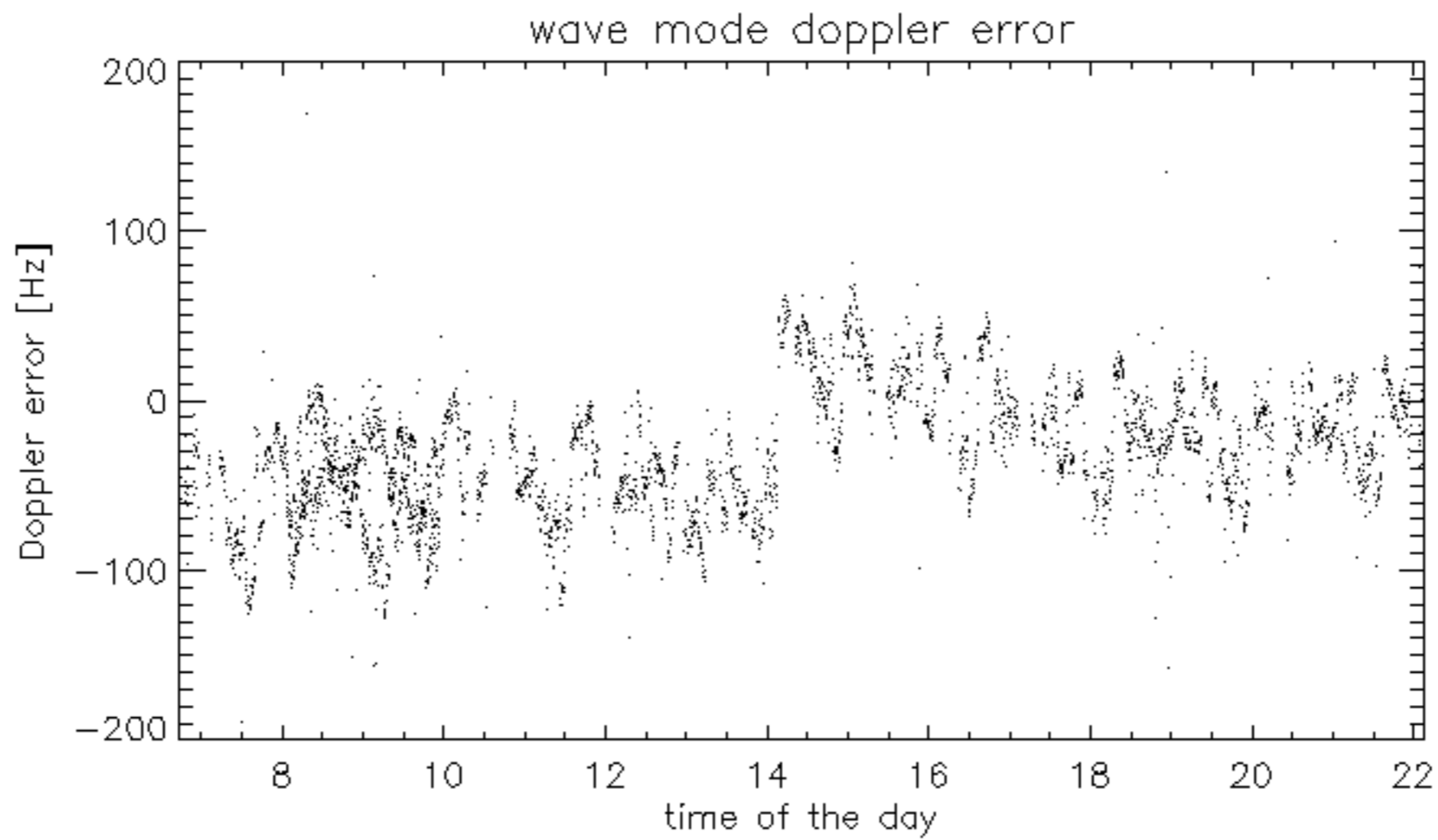
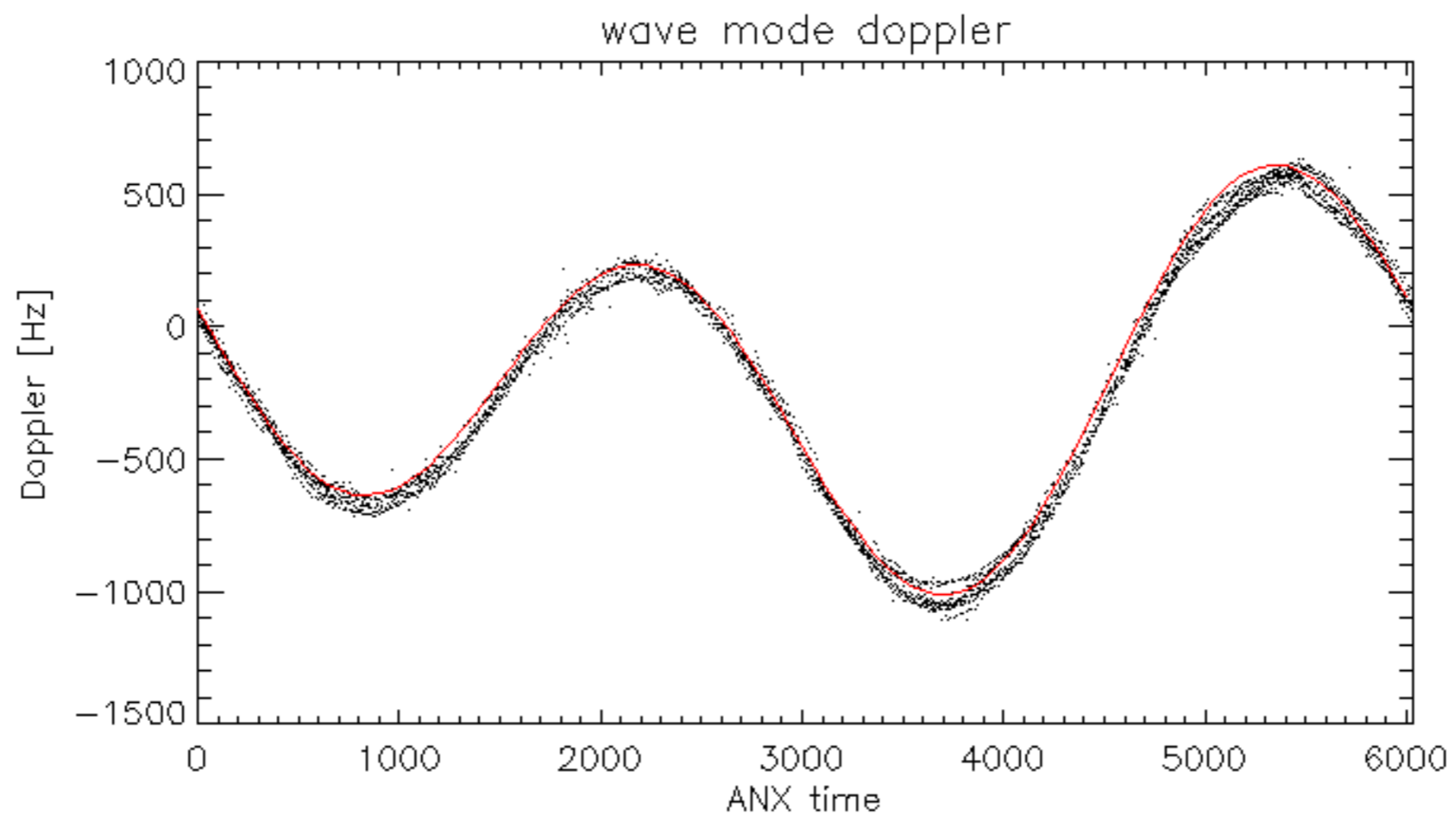
No anomalies observed in Doppler evolution.
Doppler analysis performed over the last 60 days.

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

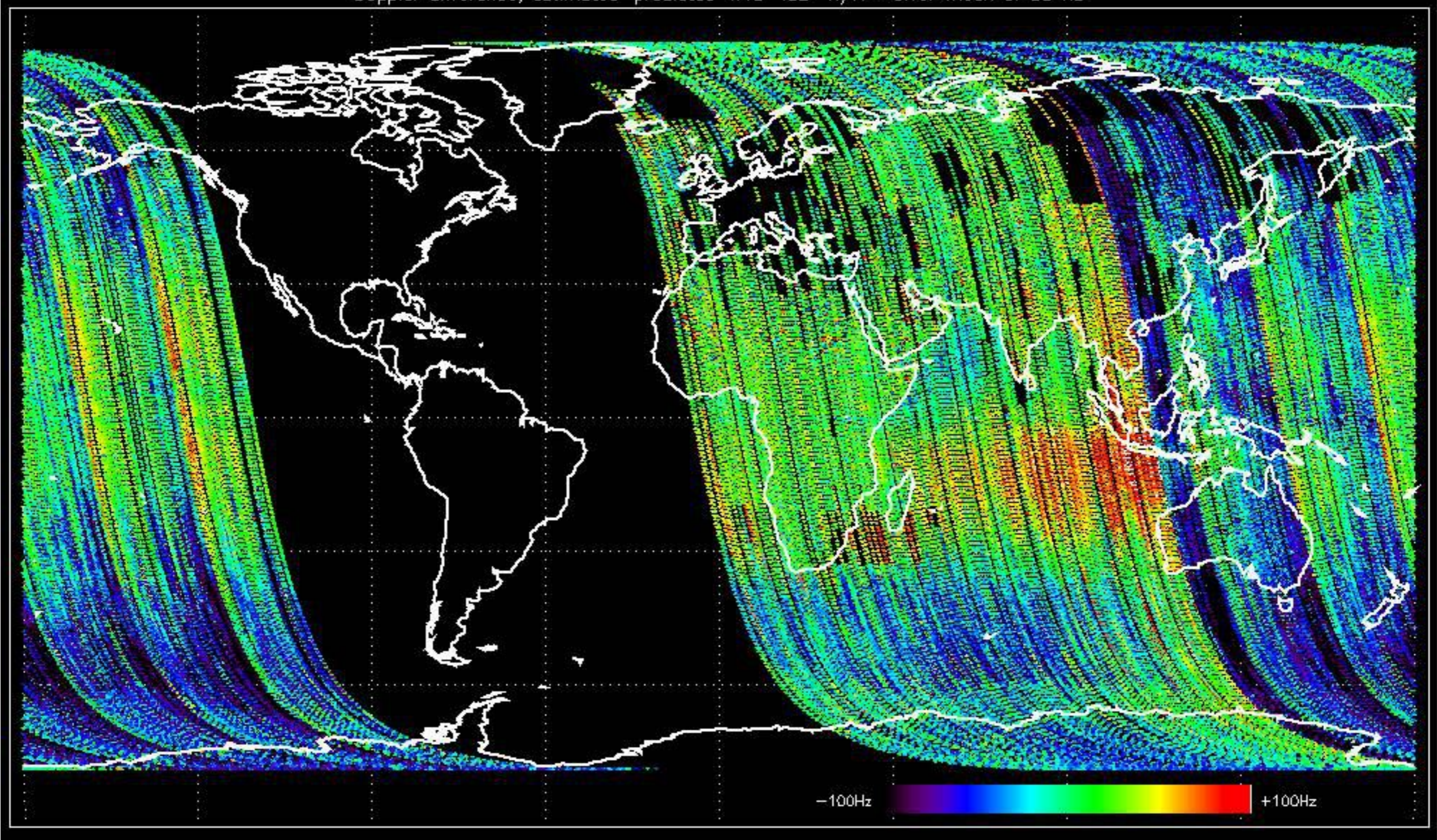


Doppler 'WVS' 'ISZ' 'V/V'

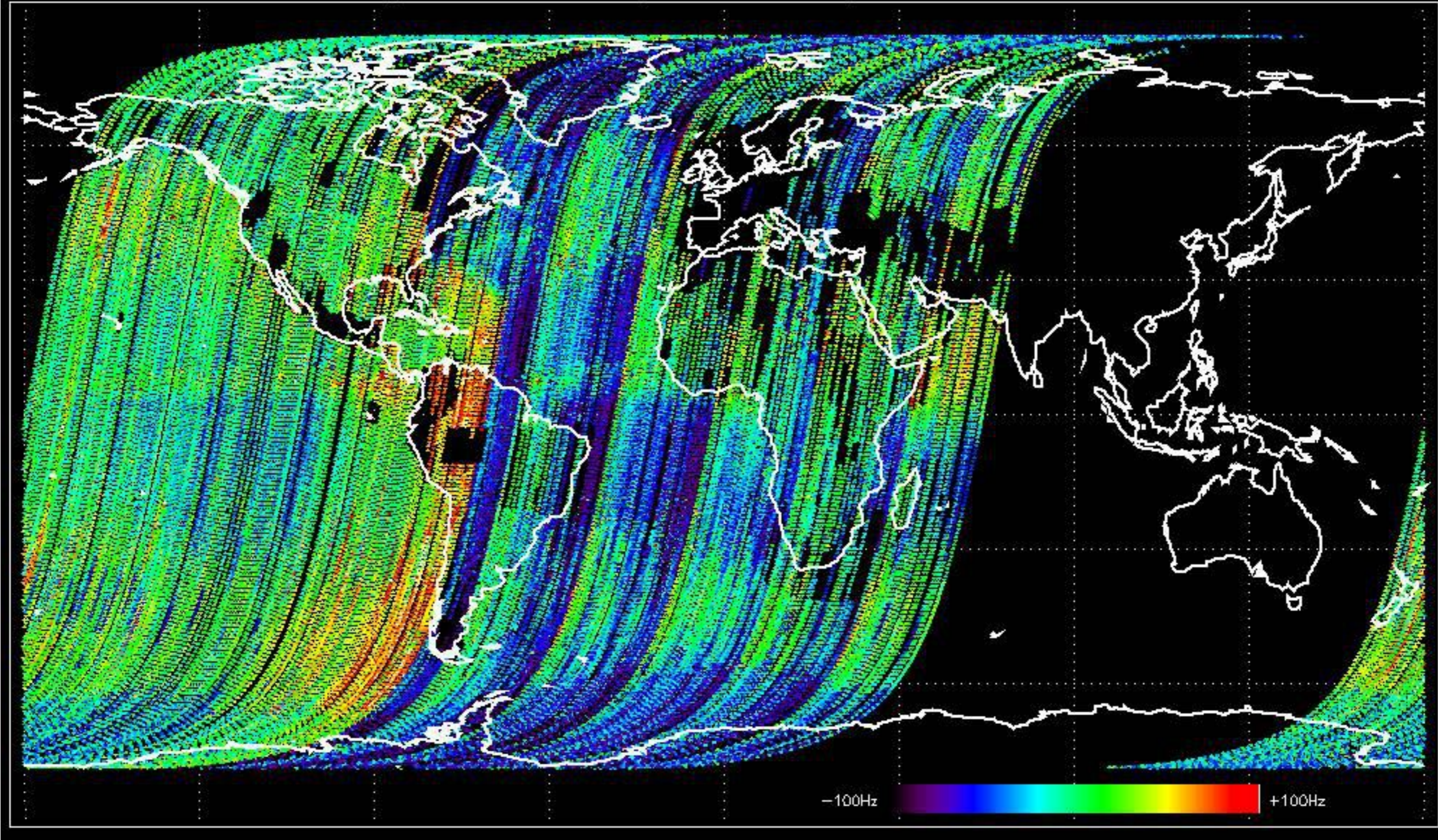




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



Two MS products available for analysis on 05-Aug-2003 (H and V polarization):

-ASA_MS__0PNPDK20030805_195840_000000152018_00414_07482_0064.N1

-ASA_MS__0PNPDK20030805_200020_000000152018_00414_07482_0063.N1

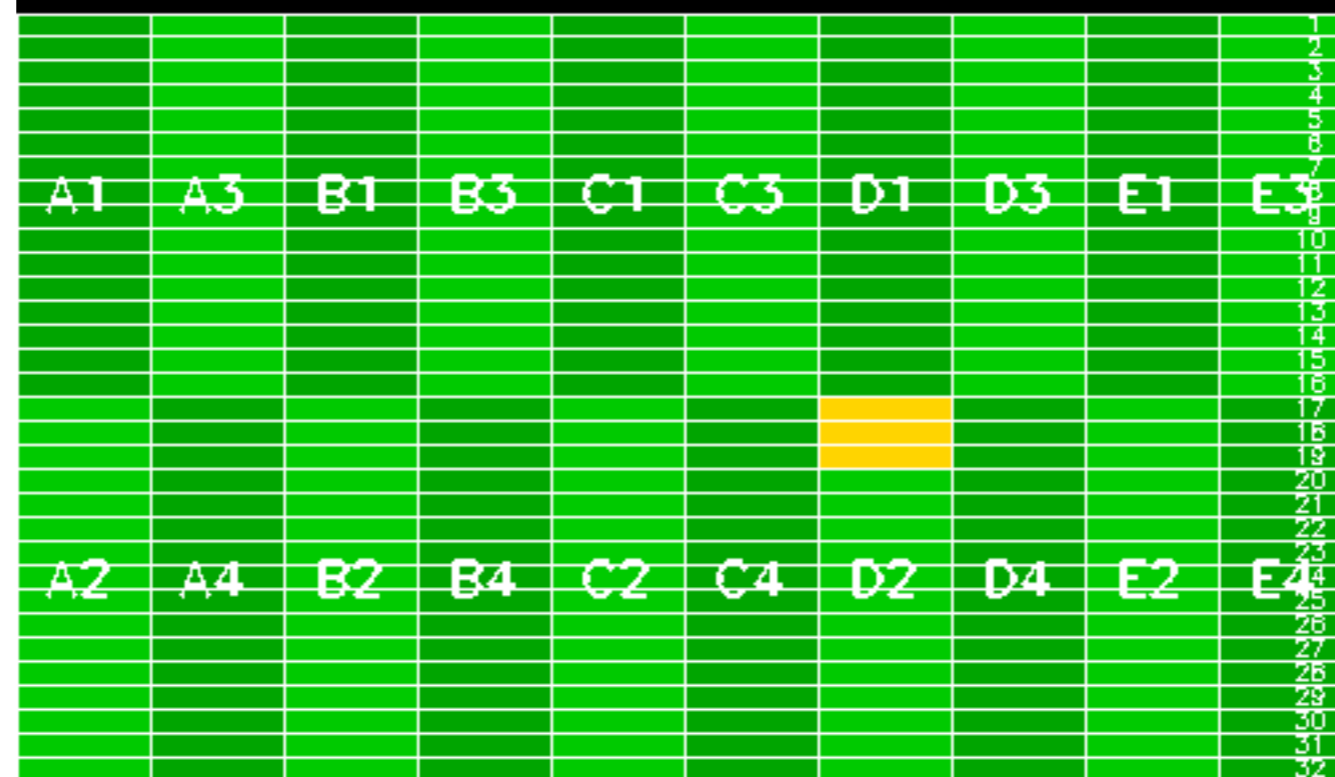
No anomalies detected.

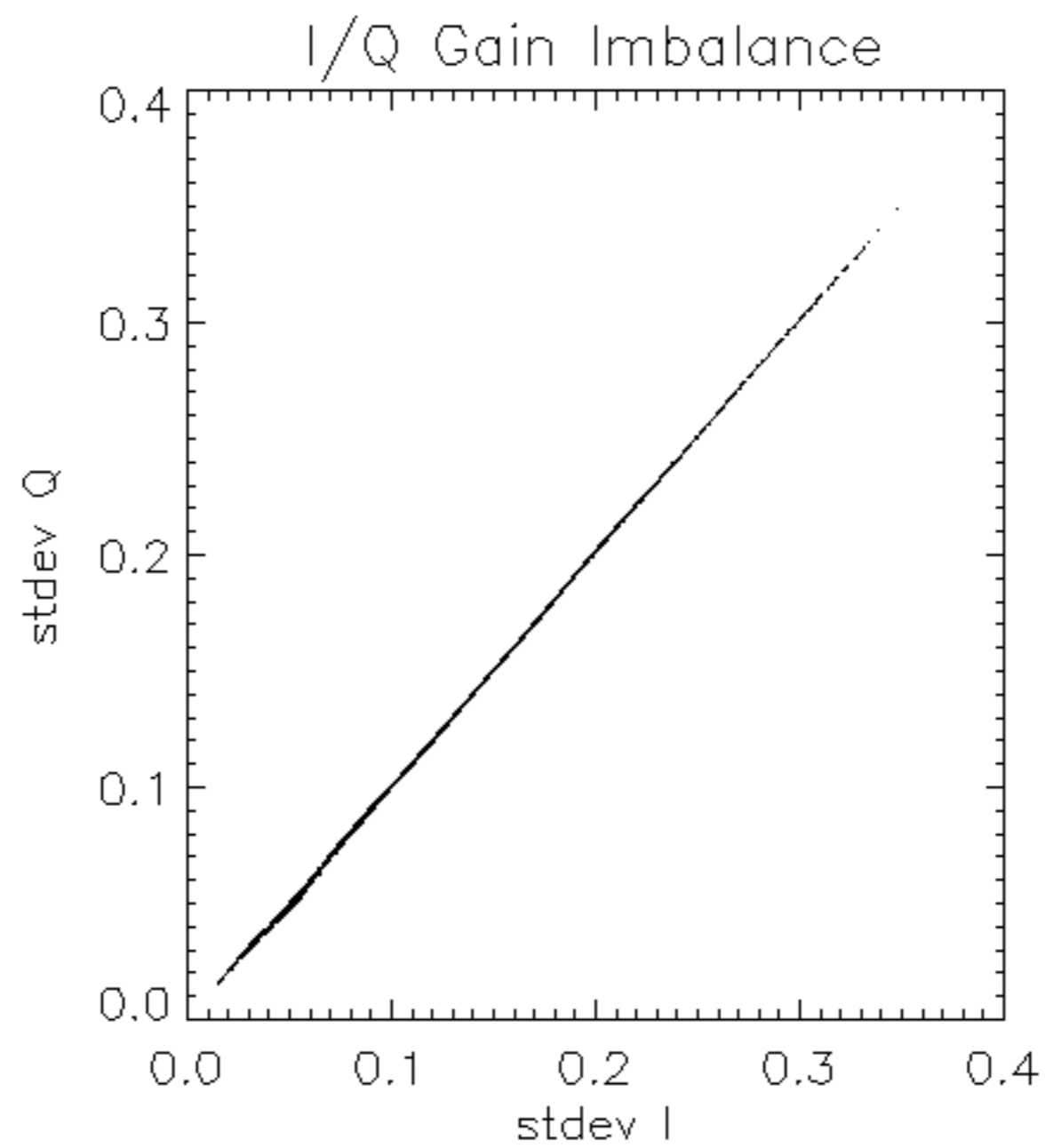
The drift in phase for TR module 3 on Tile B3 has decreased to a stable configuration as shown in the figure below.

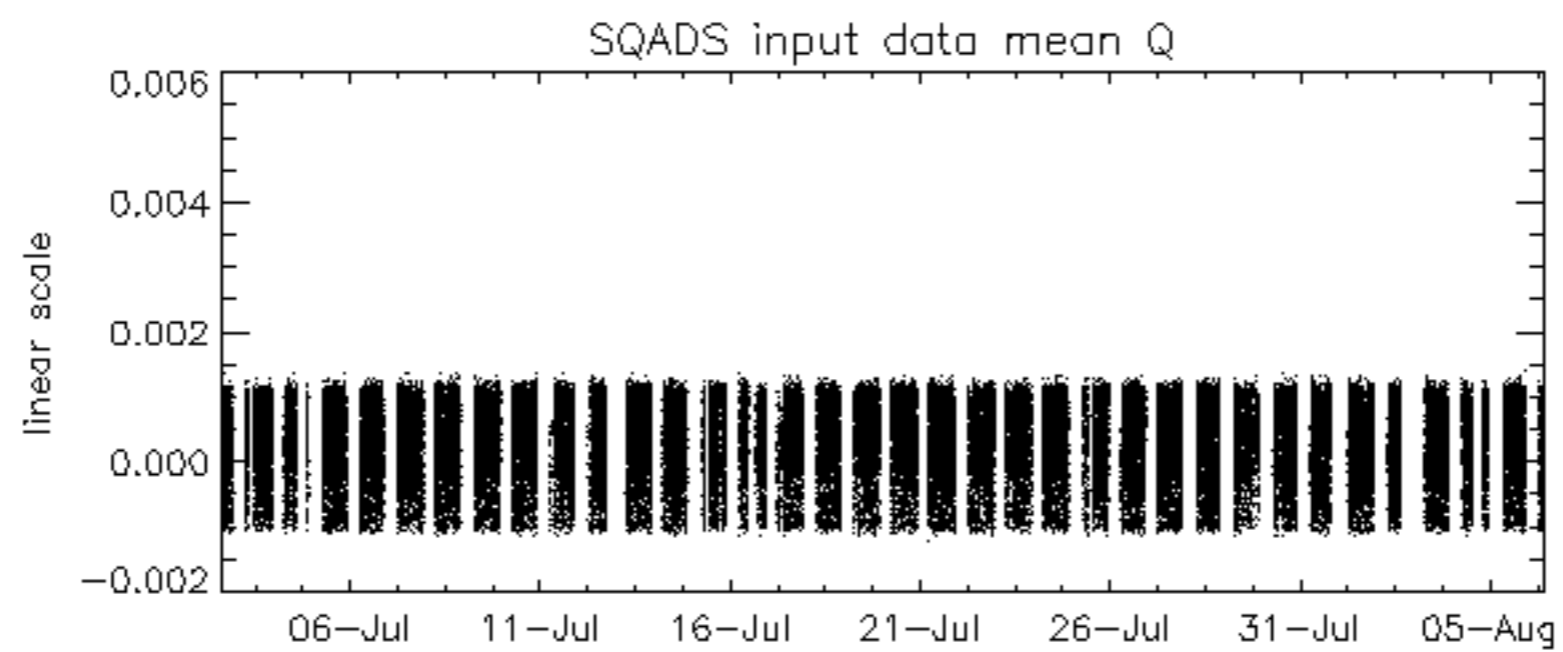
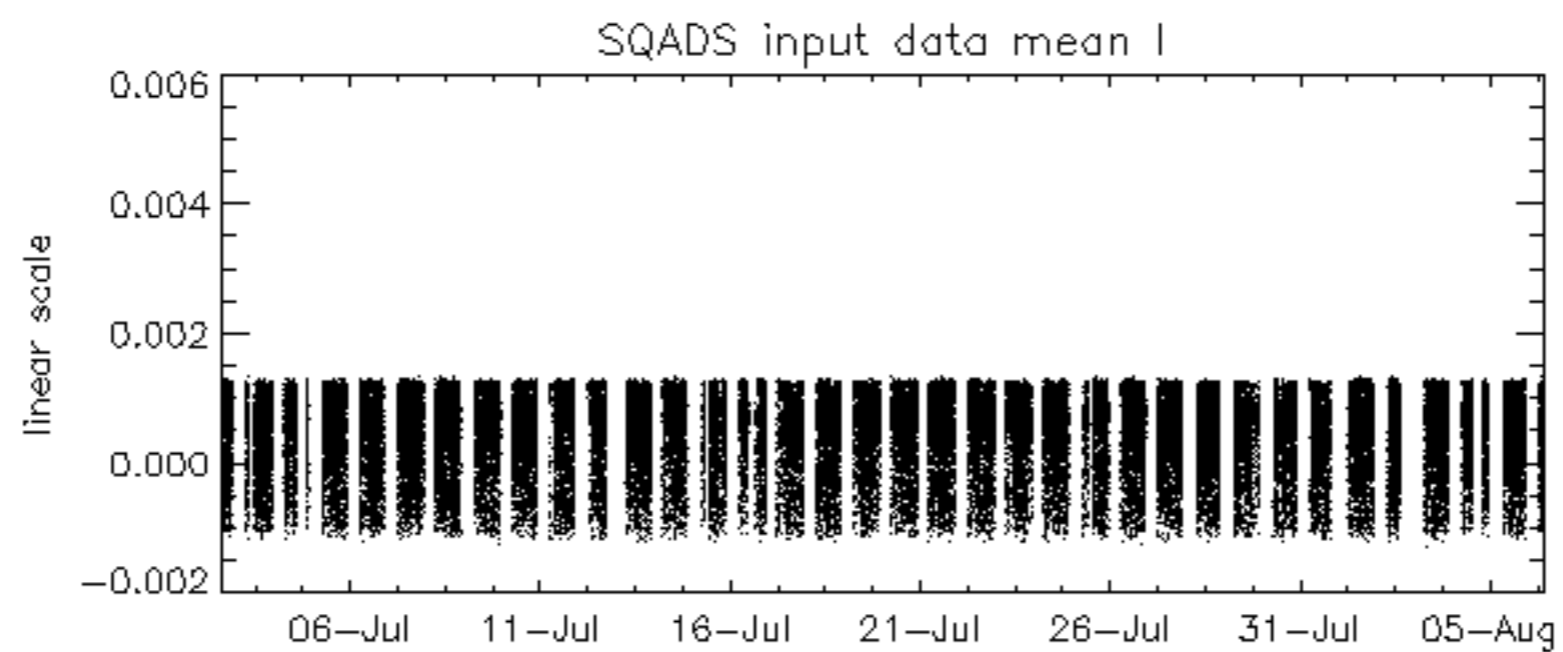
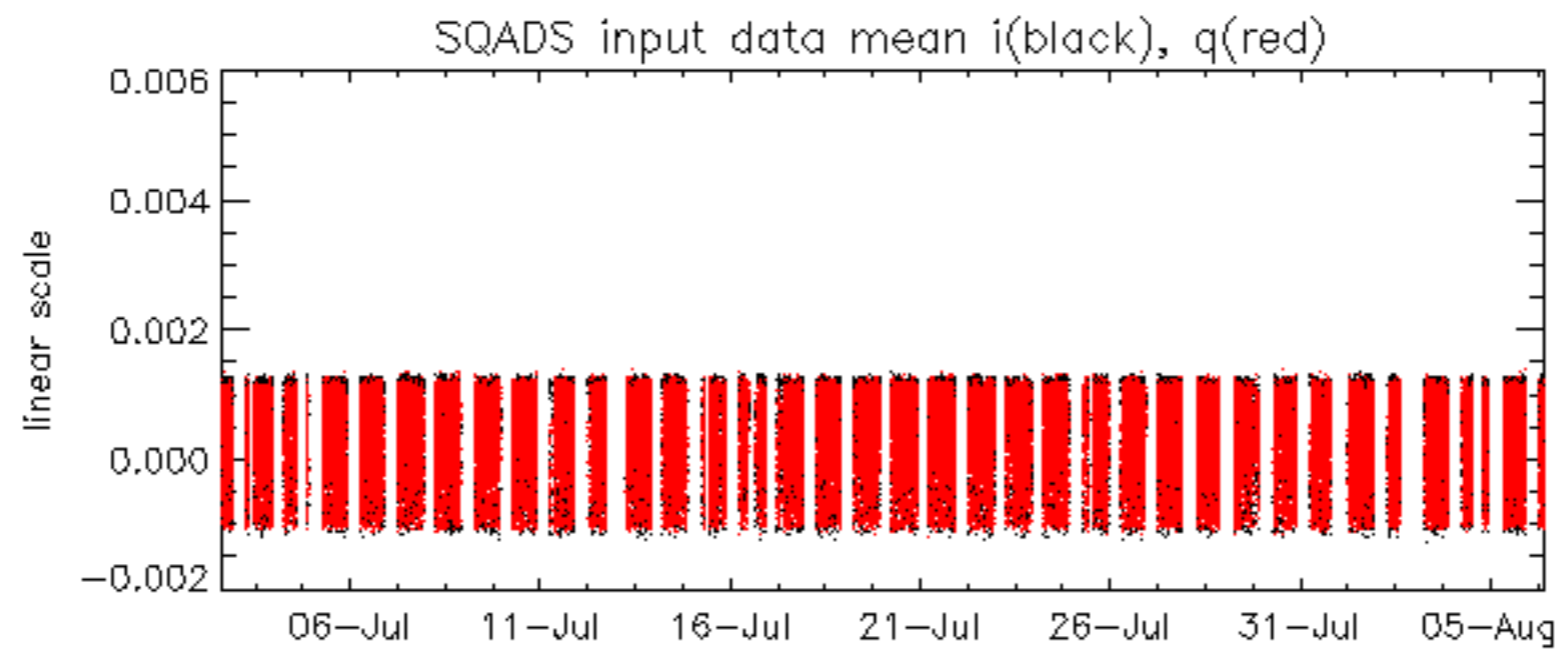
No anomalies observed.

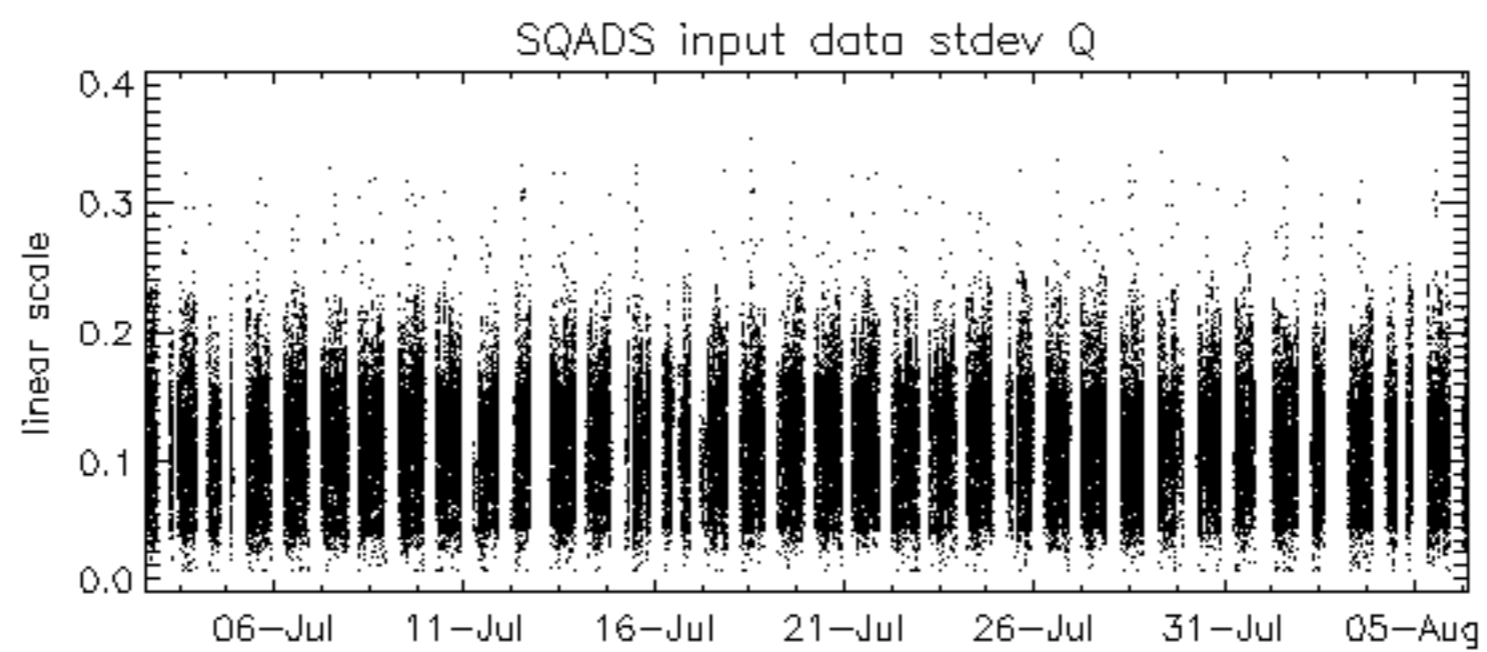
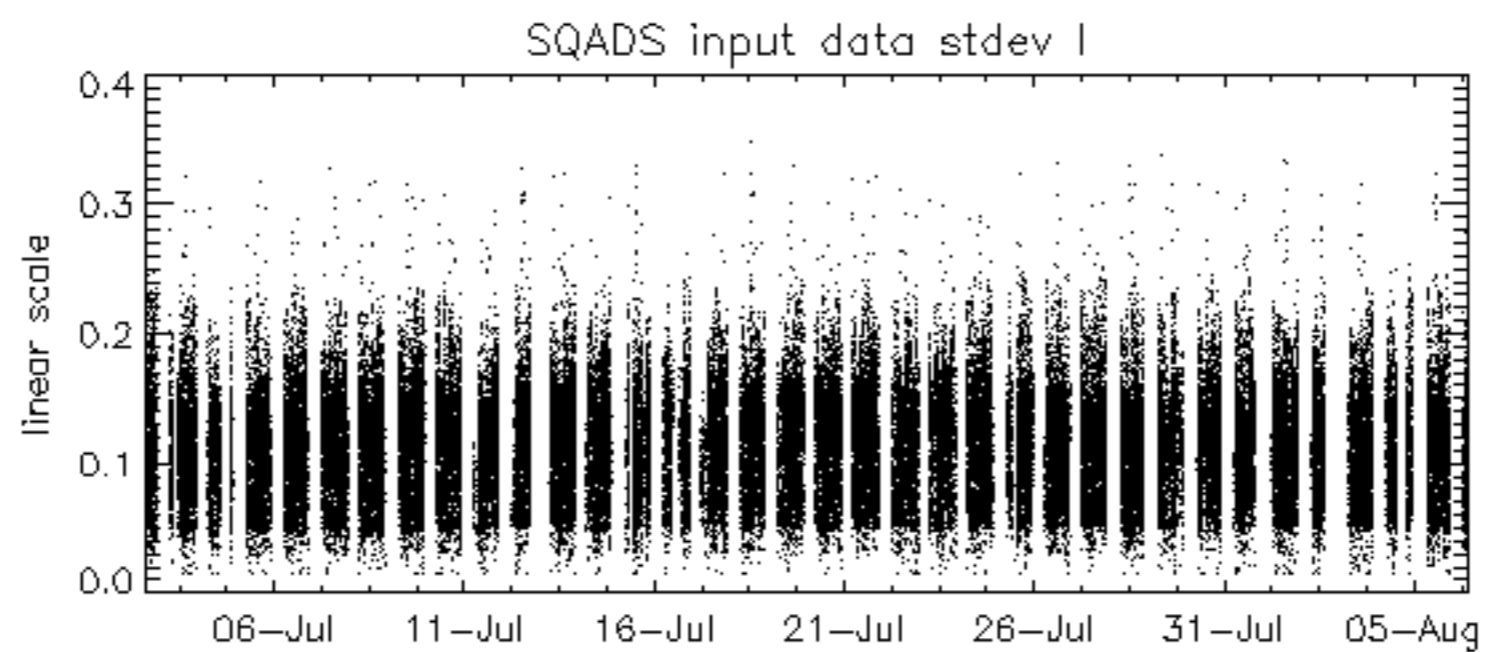
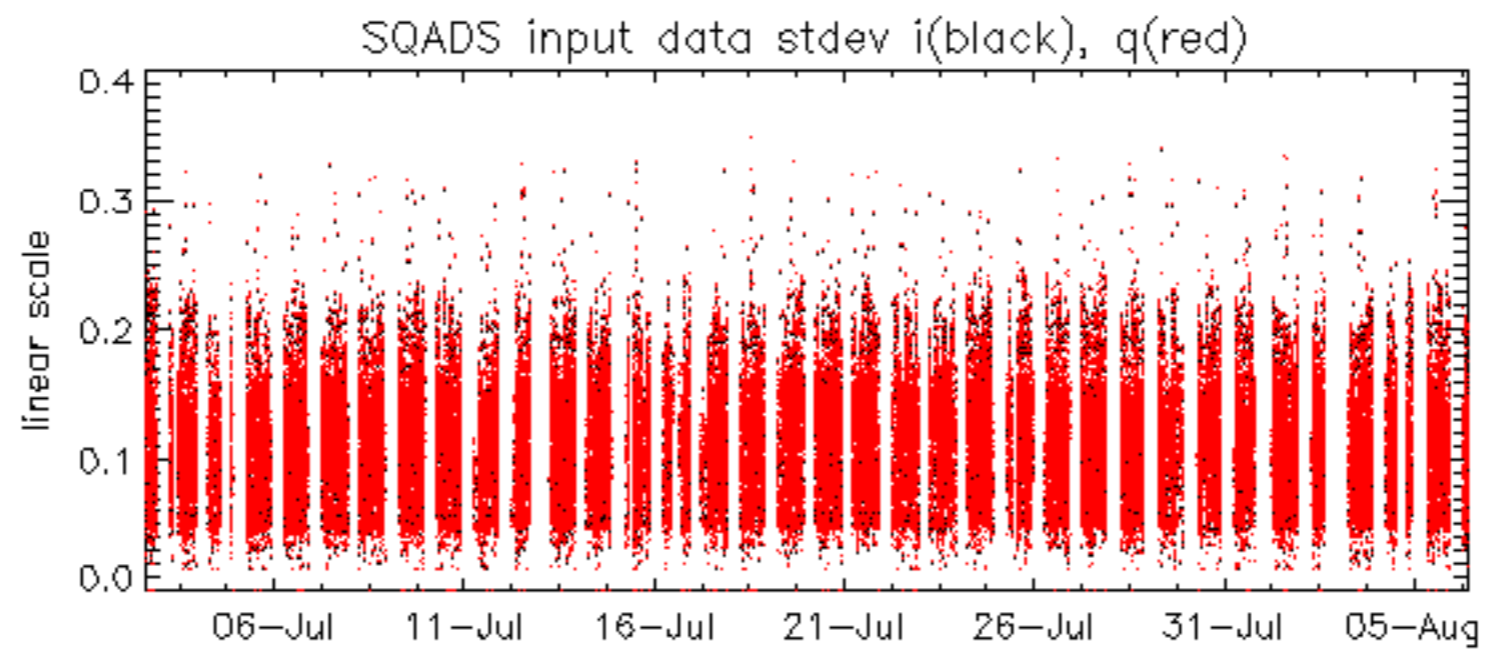
Reference: 2003-06-12 14:08:52 H RxGain

Test : 2003-08-05 19:58:40 H









No unavailabilities during the reported period.