

REPORT OF 030929

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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:









- ASA_MS__0PNPDK20030928_200312_000000152020_00185_08255_0095.N1
- ASA_MS__0PNPDK20030928_200132_000000152020_00185_08255_0096.N1

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	20030928 200312
H	20030928 200132
H	20030928 200132

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	-3.79656	-22.5210	-8.12359
	stdev	0.00563270	0.0636568	0.00212569
10	mean	-6.90121	-19.3148	-8.12359
	stdev	0.0255422	0.0570513	0.00212569



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79933	-22.5268	-8.11986
	stdev	0.00560219	0.0630323	0.00257549
10	mean	-6.89779	-19.3170	-8.11986
	stdev	0.0270566	0.0615735	0.00257549



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	0.000368143
	stdev	3.54138e-07

MEAN Q	mean	0.000307712
	stdev	3.15387e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115879
	stdev	0.00144643
STDEV Q	mean	0.116111
	stdev	0.00146546



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

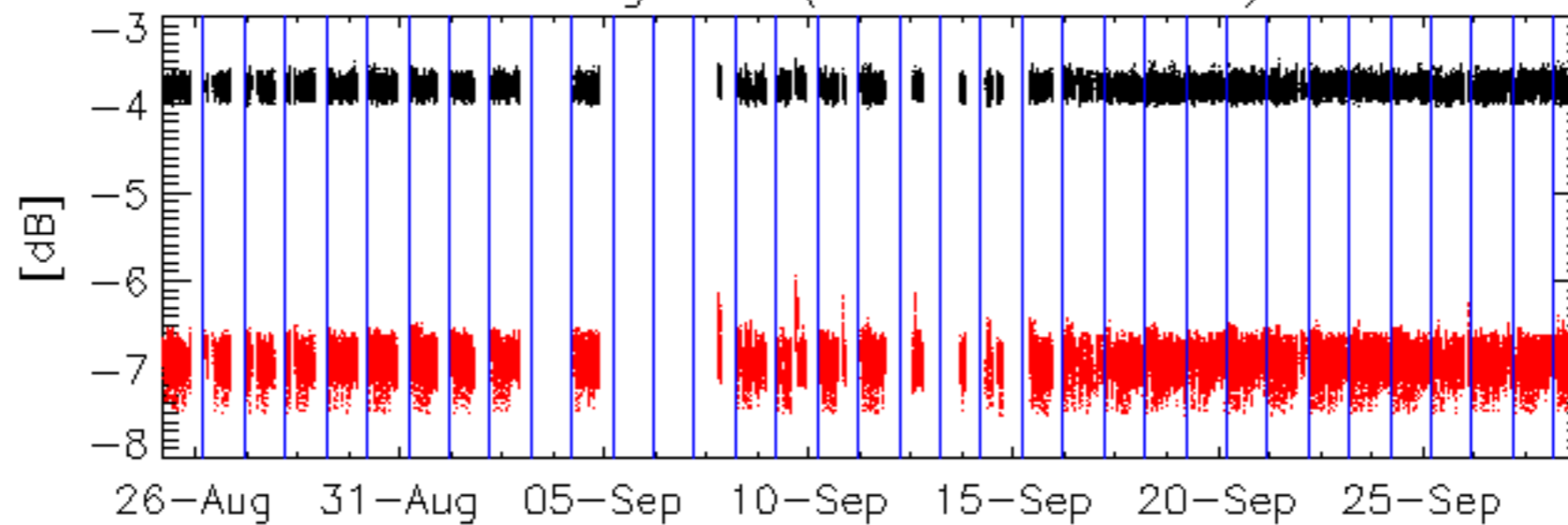
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

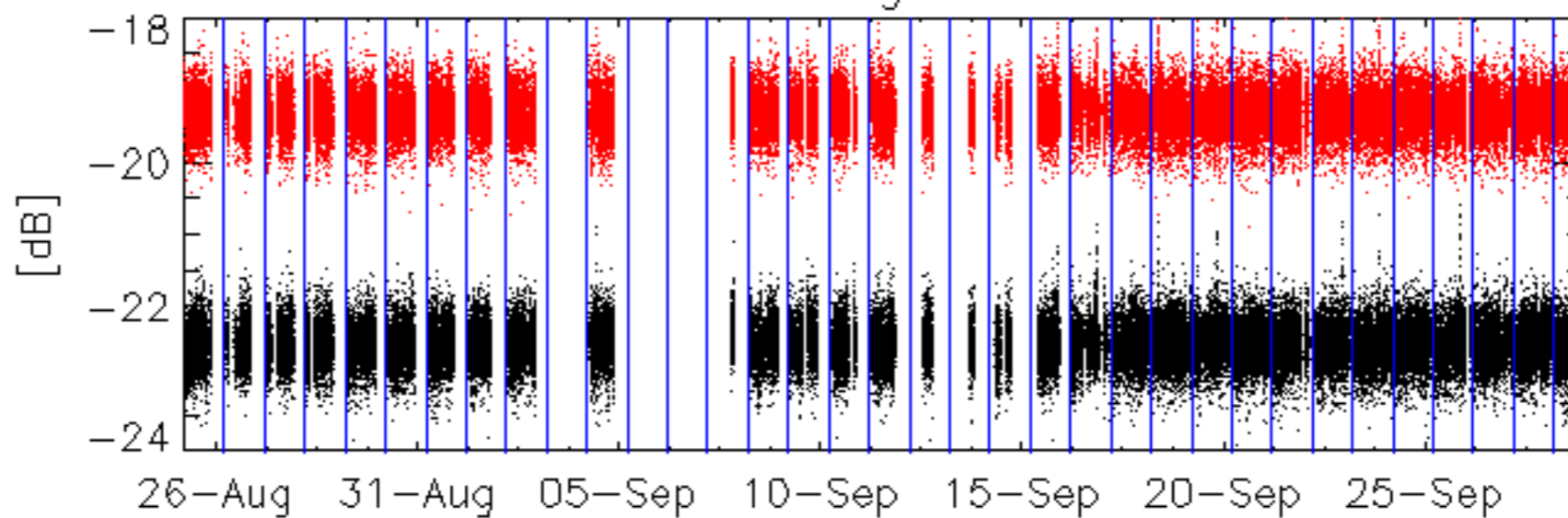
Evolution Doppler error versus ANX



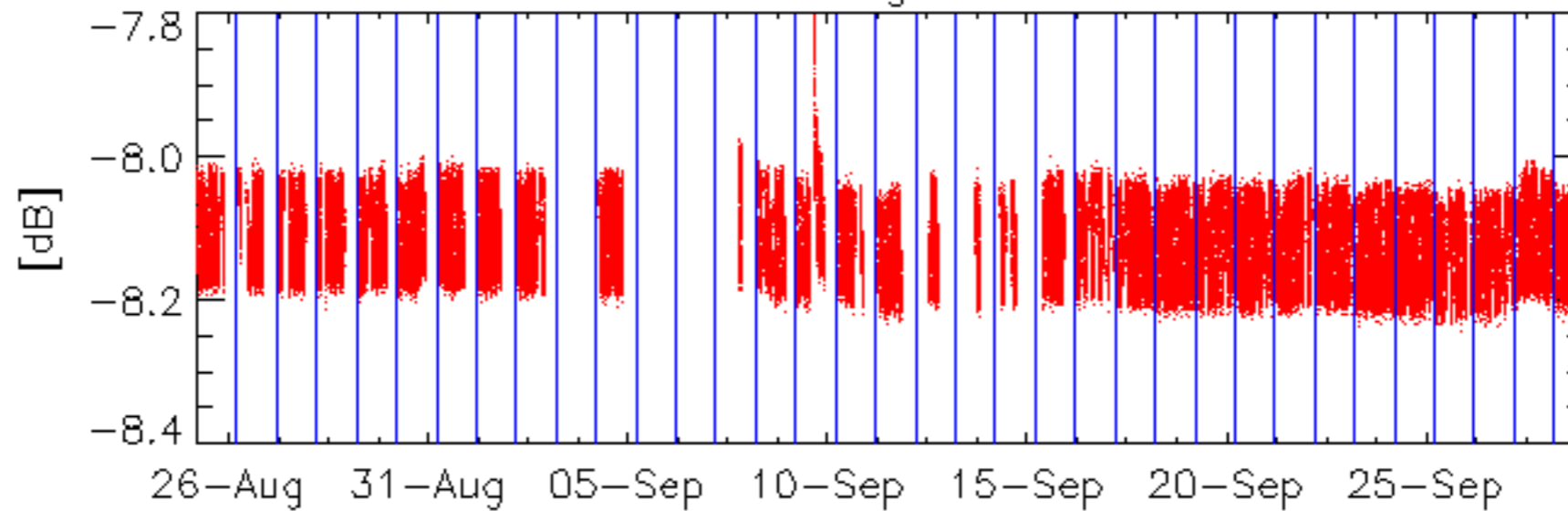
Average P1 (row 3 & row 10)

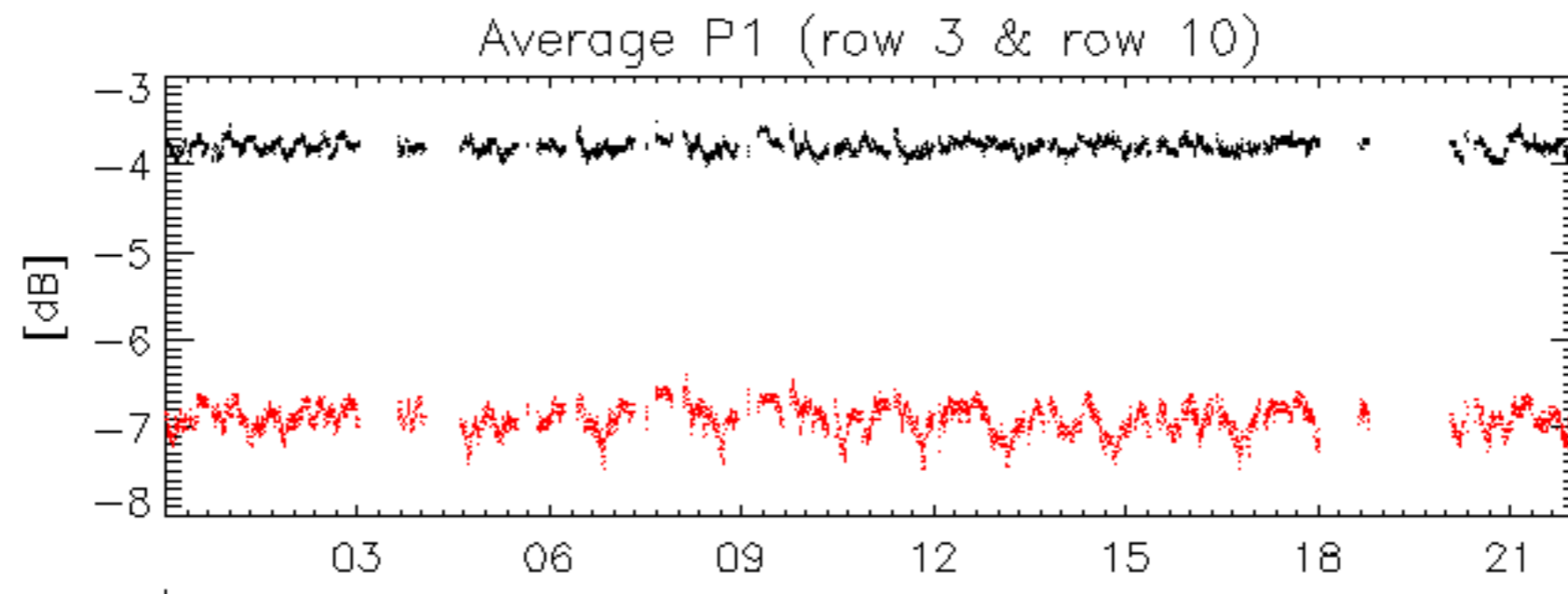


Average P2

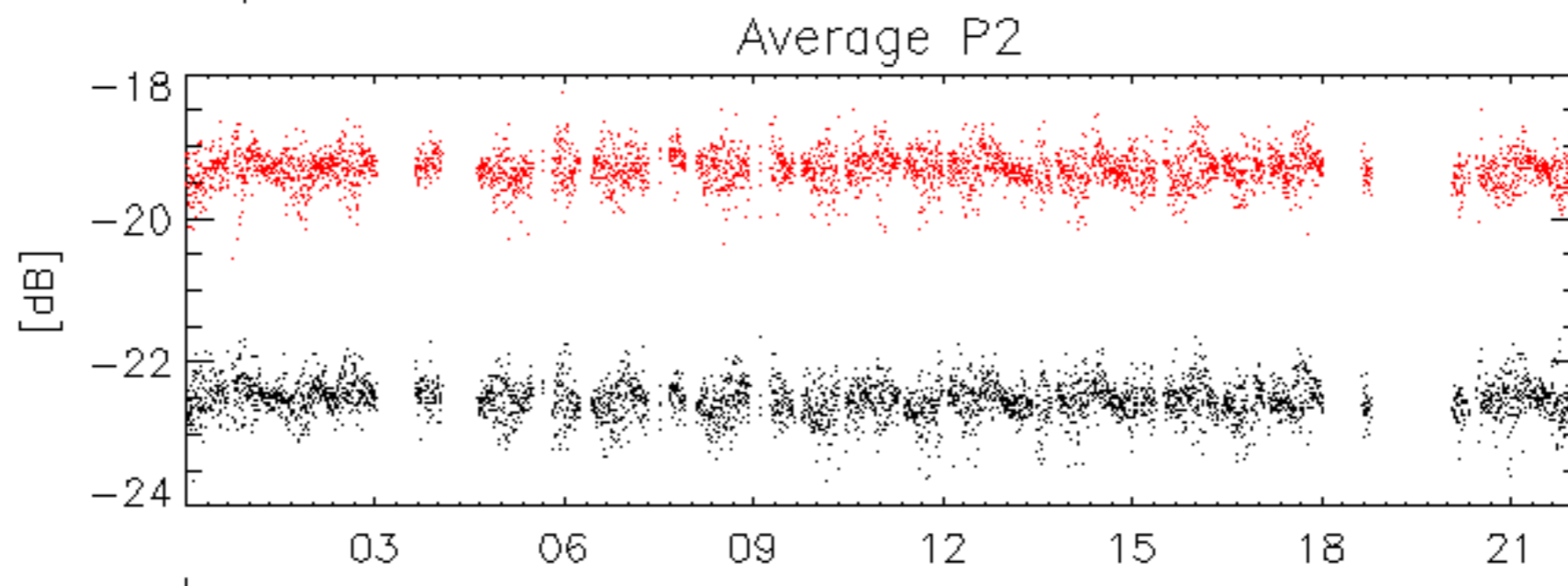


Average P3

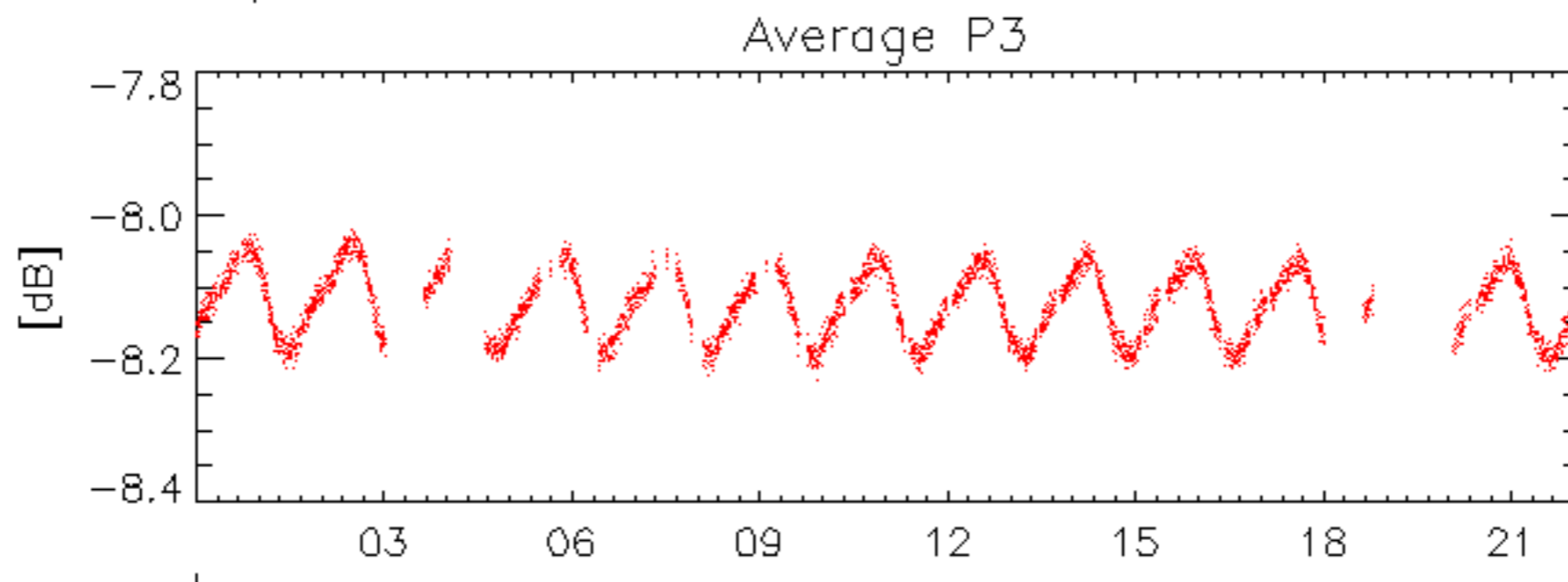




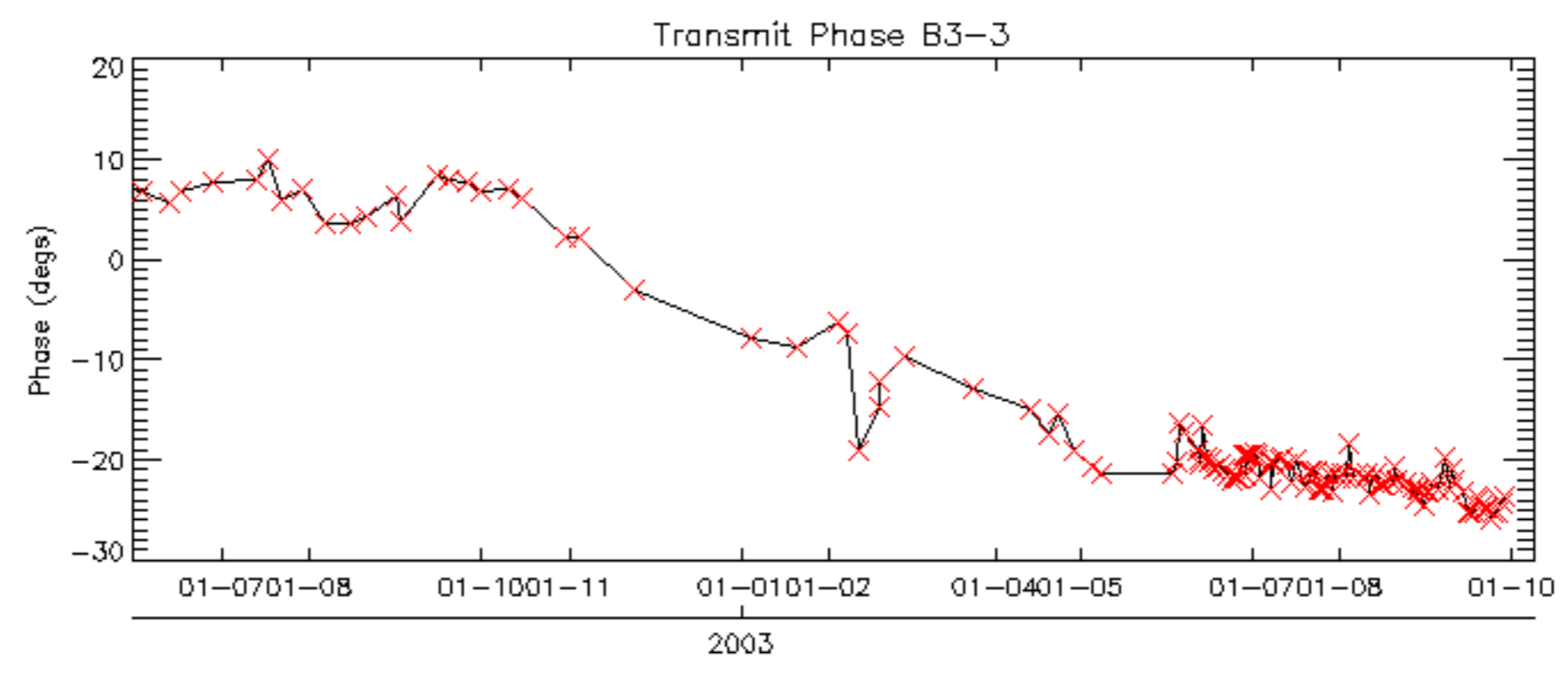
28-Sep



28-Sep

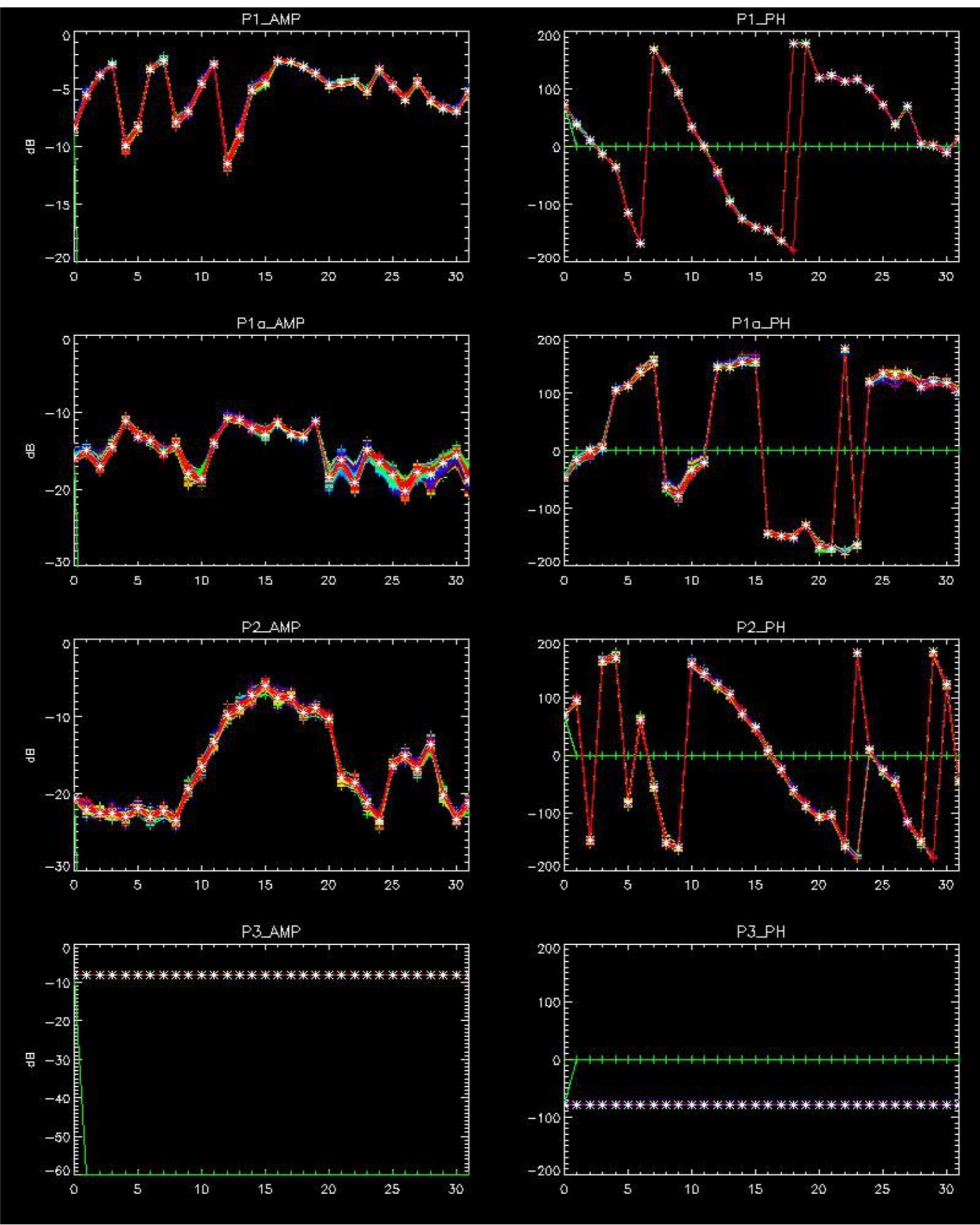


28-Sep



No anomalies observed on available browse products

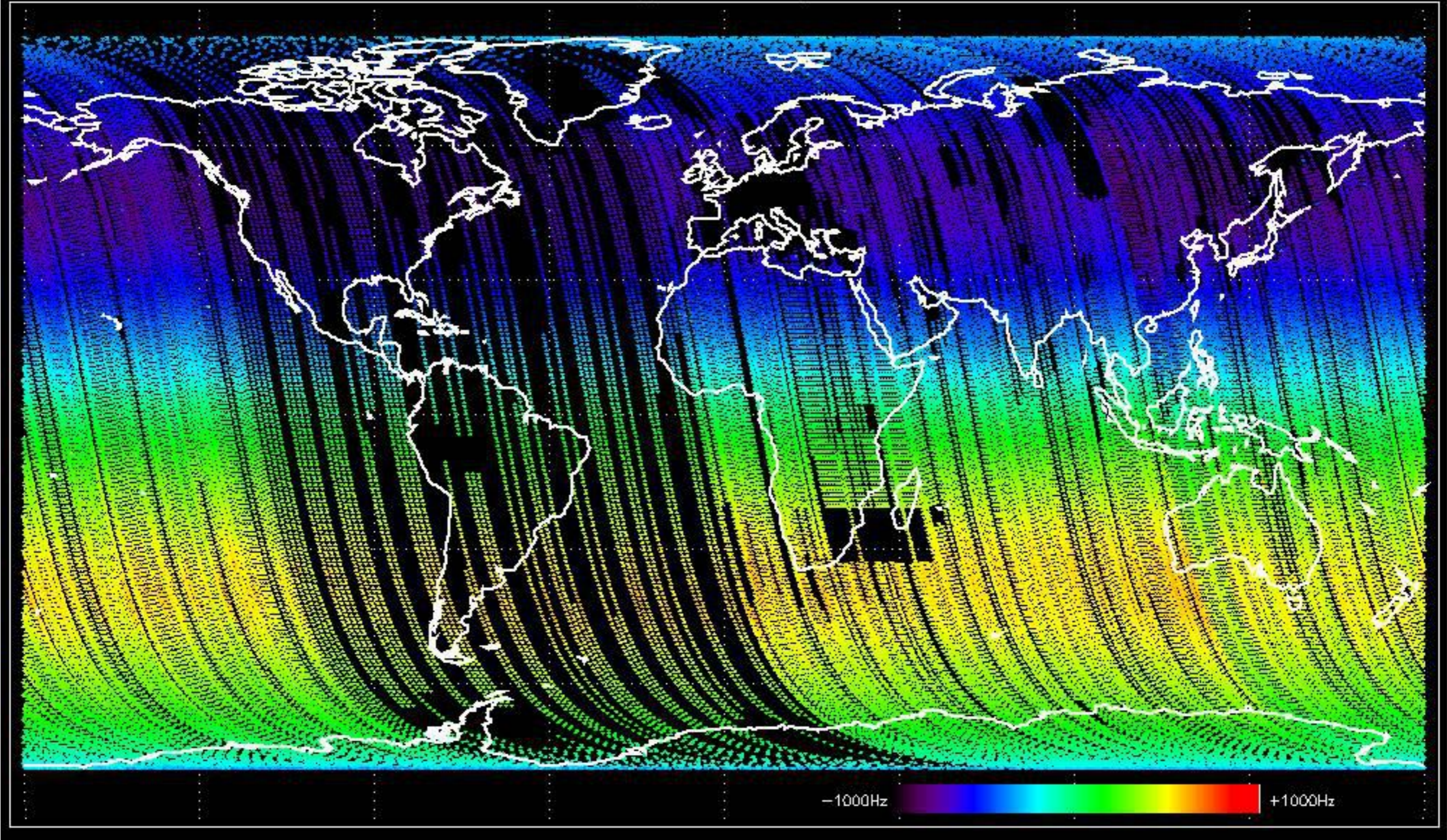
No anomalies observed.



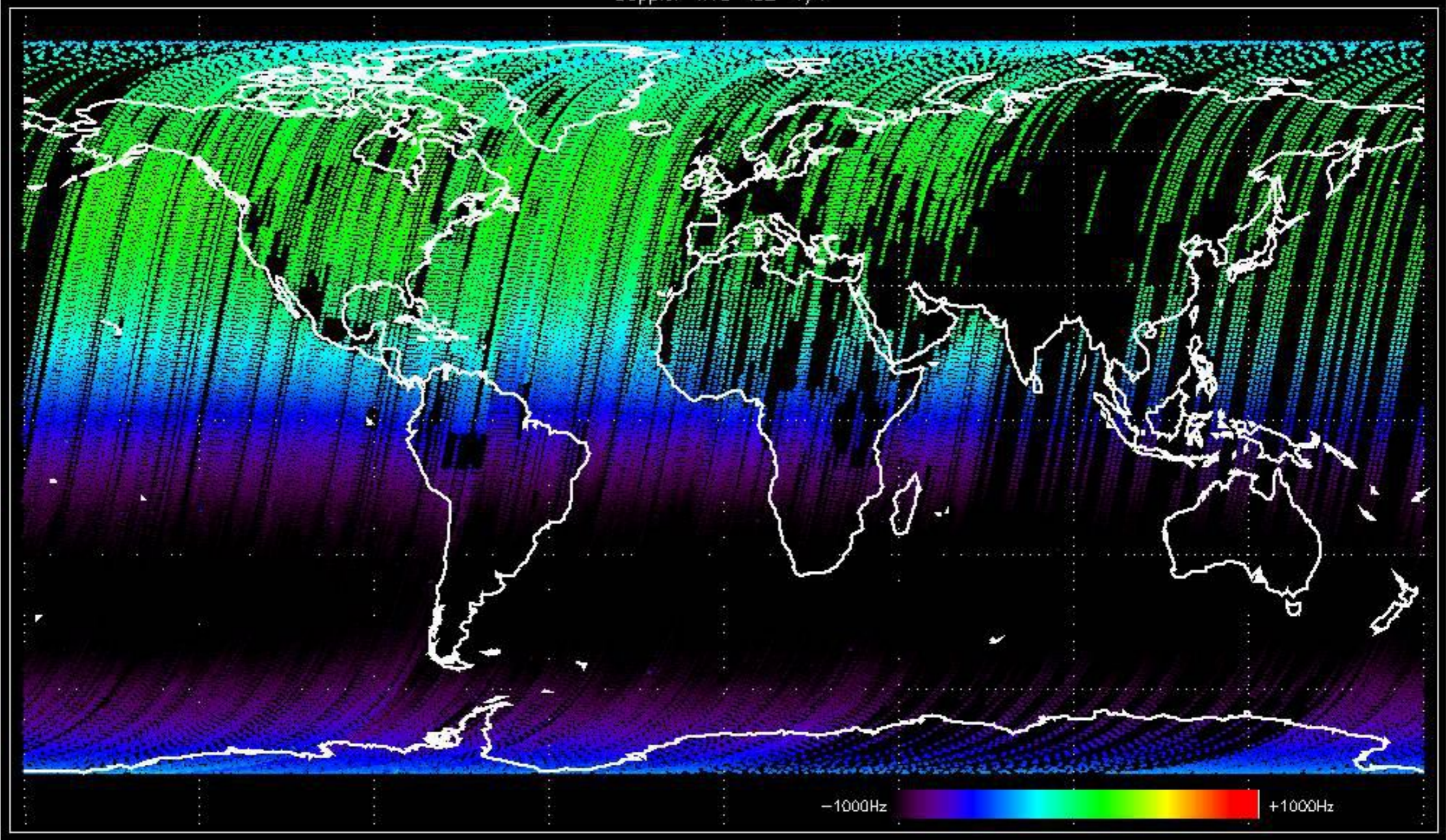
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

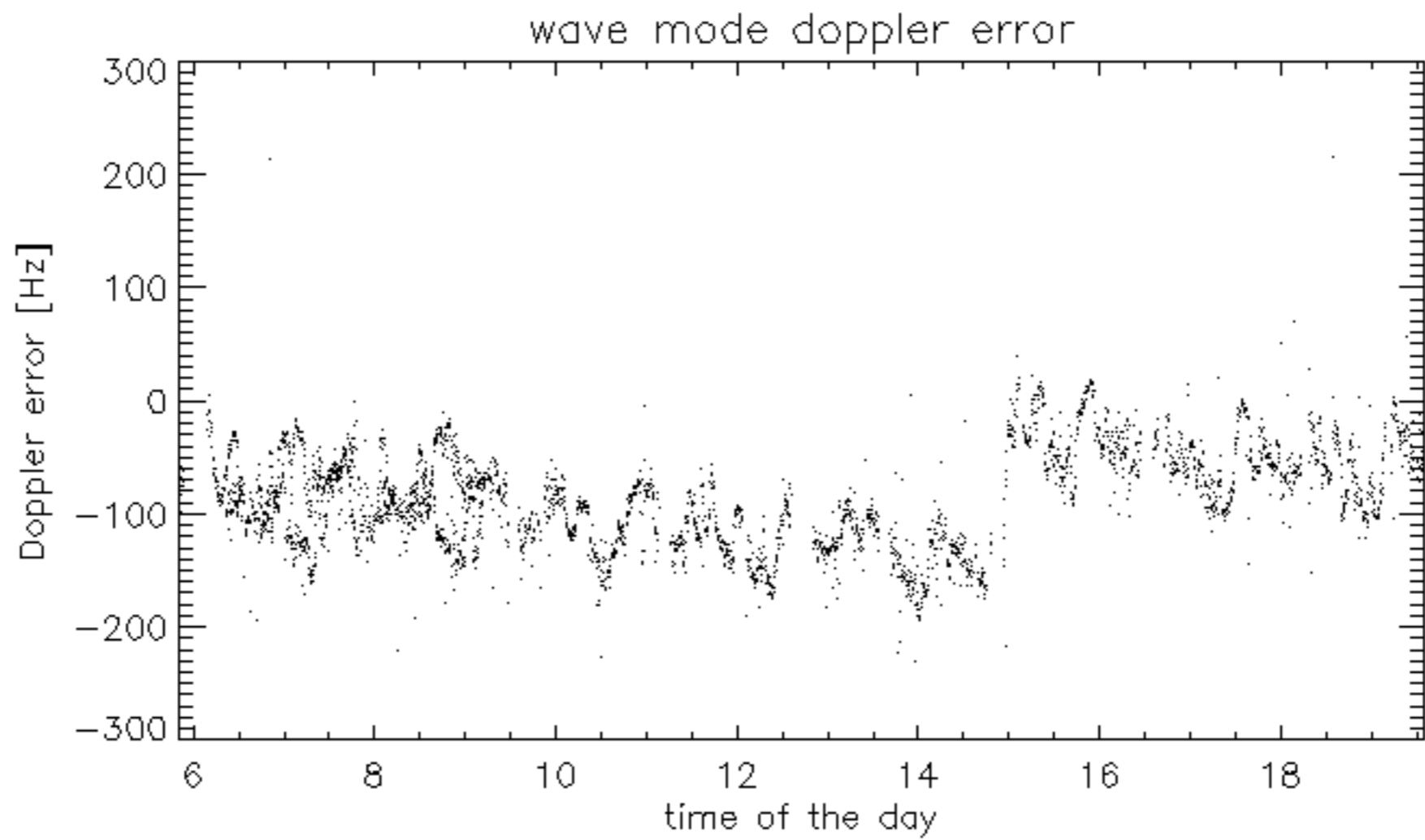
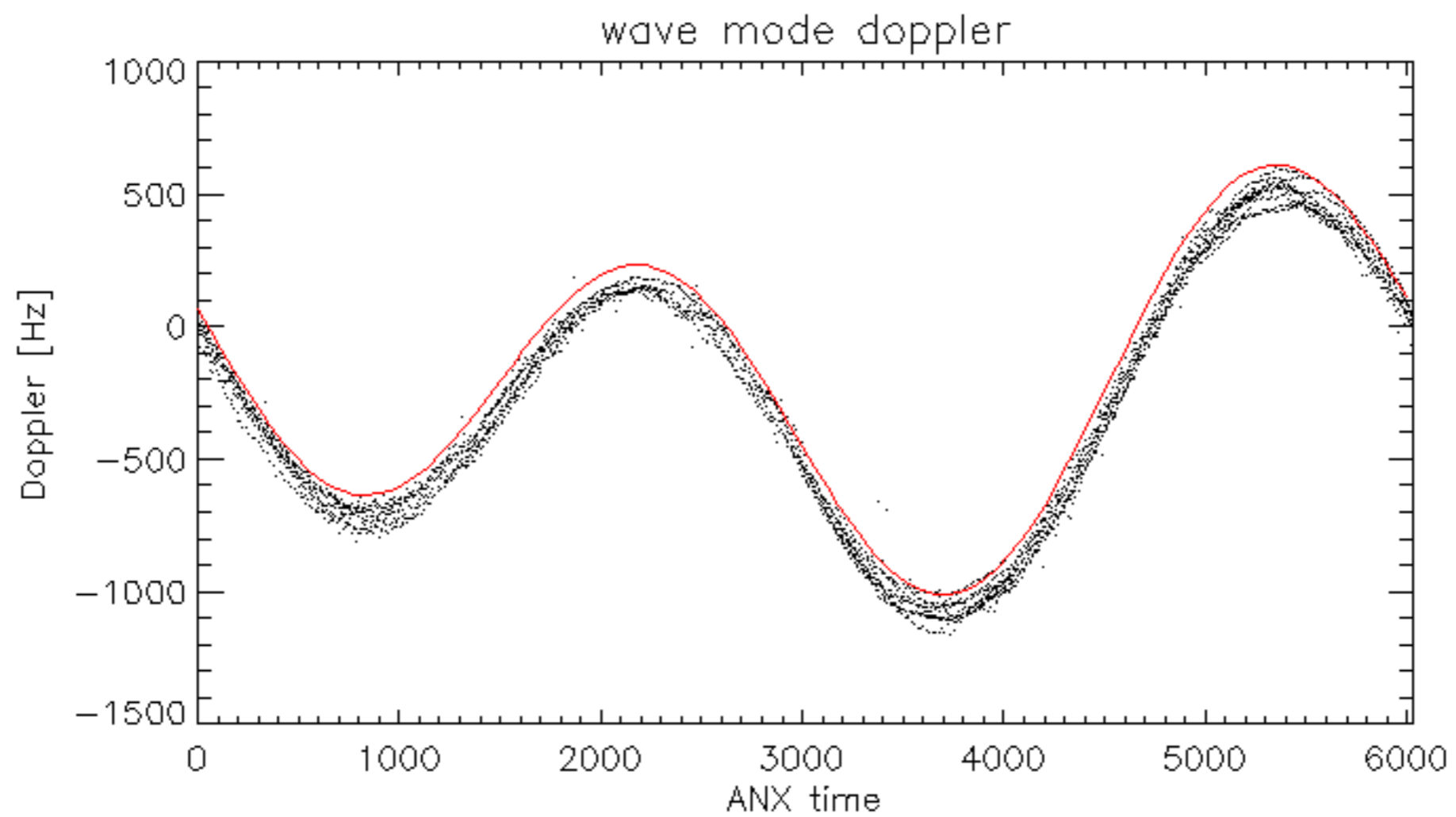
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

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

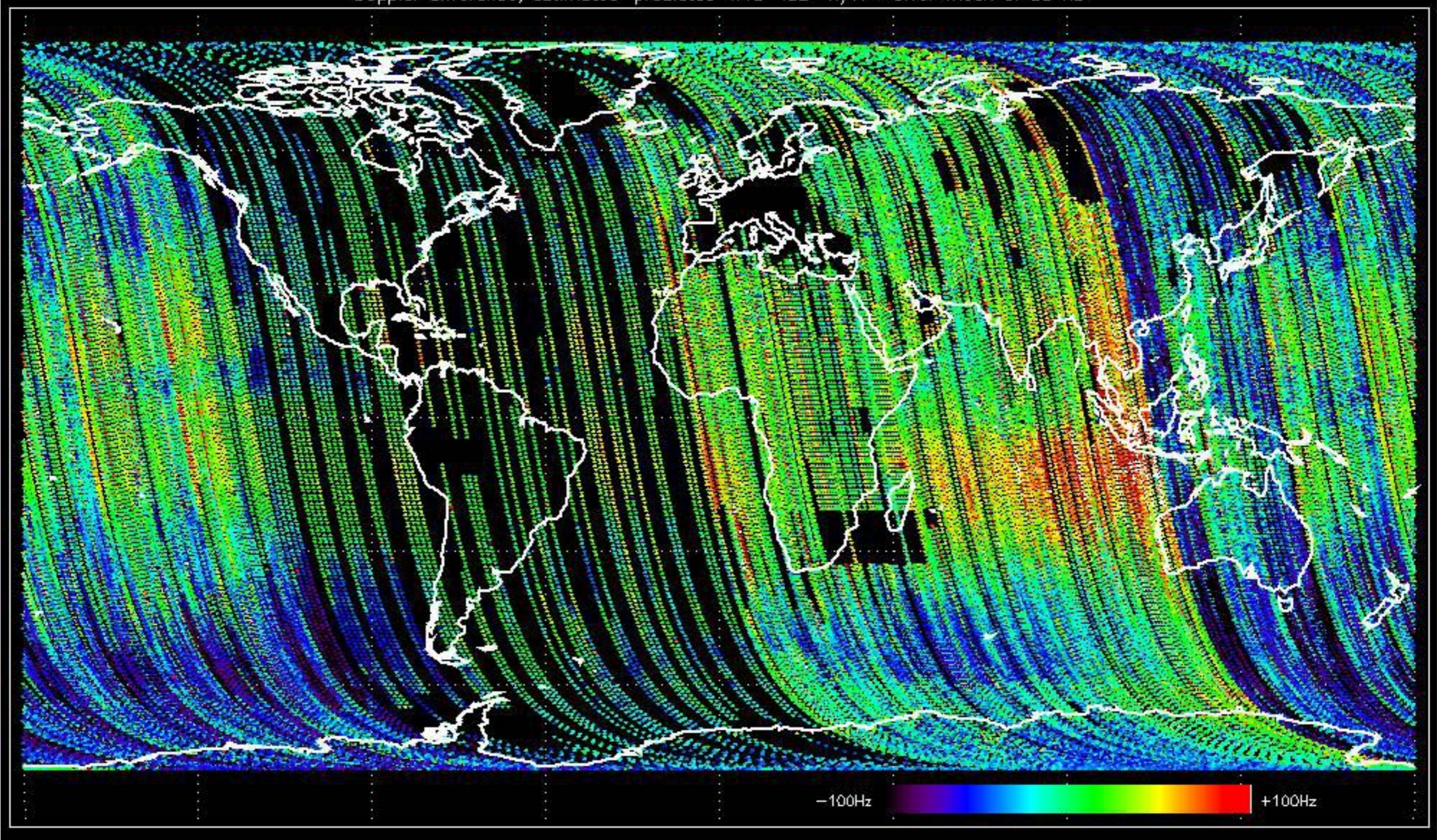


Doppler 'WS' 'IS2' 'V/V'

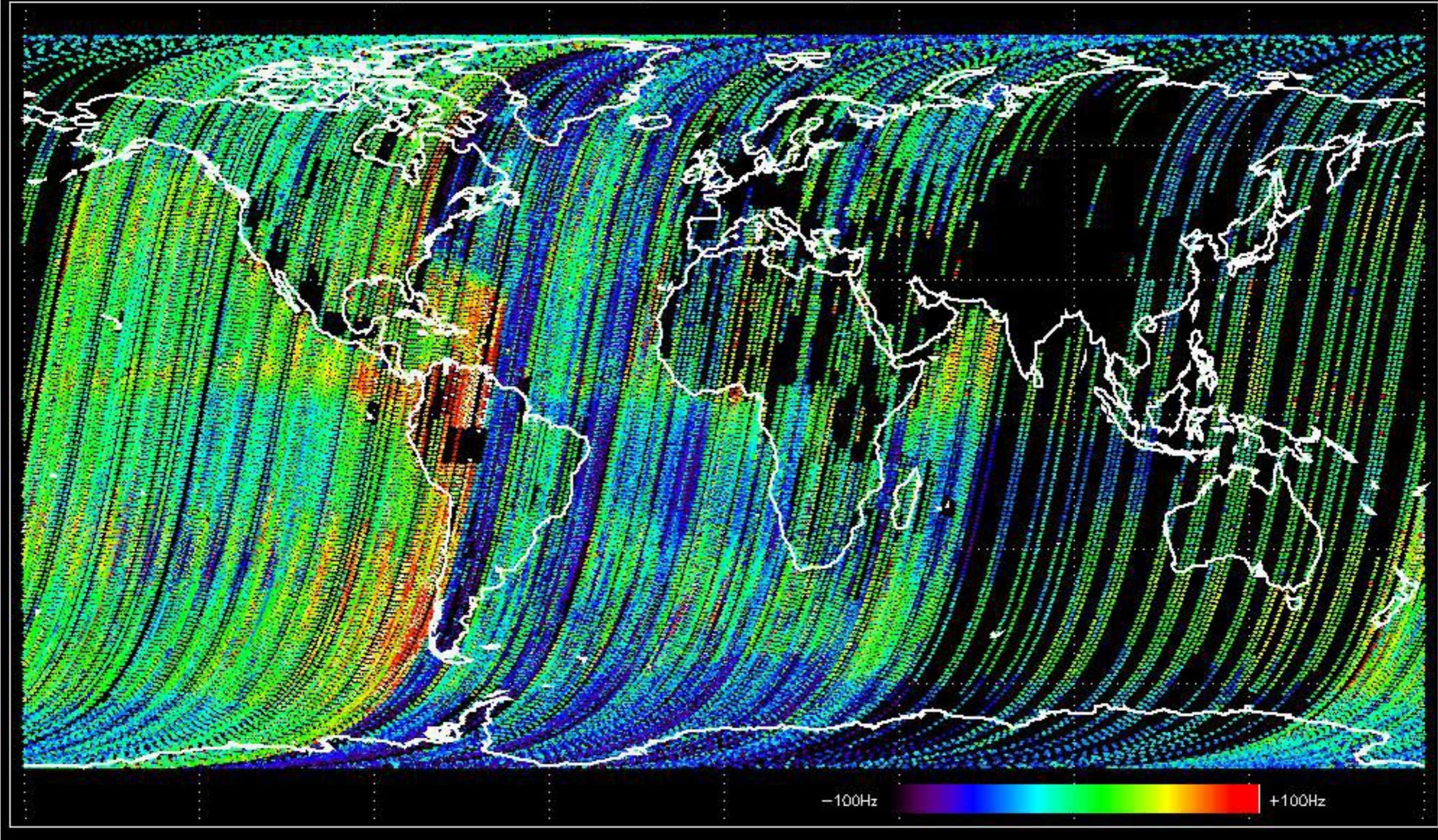




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



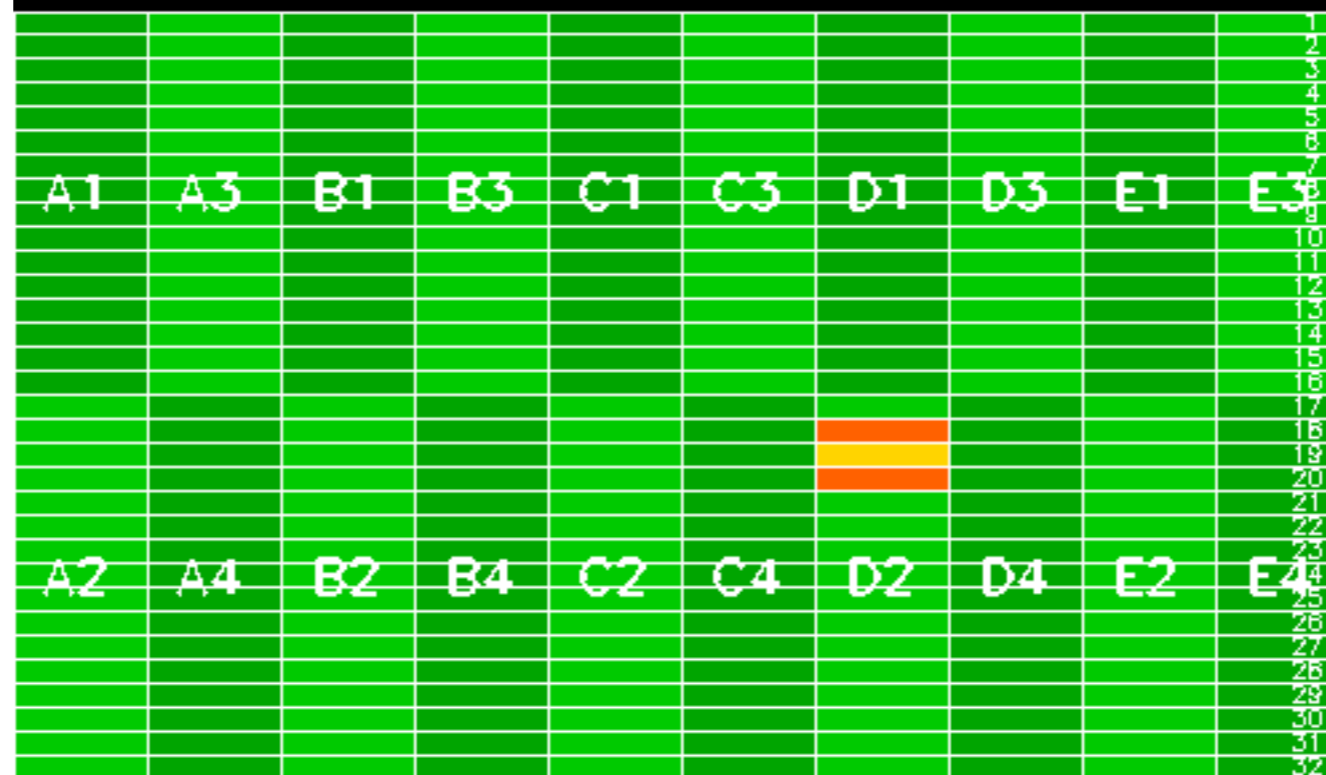
No anomalies observed on available MS products:

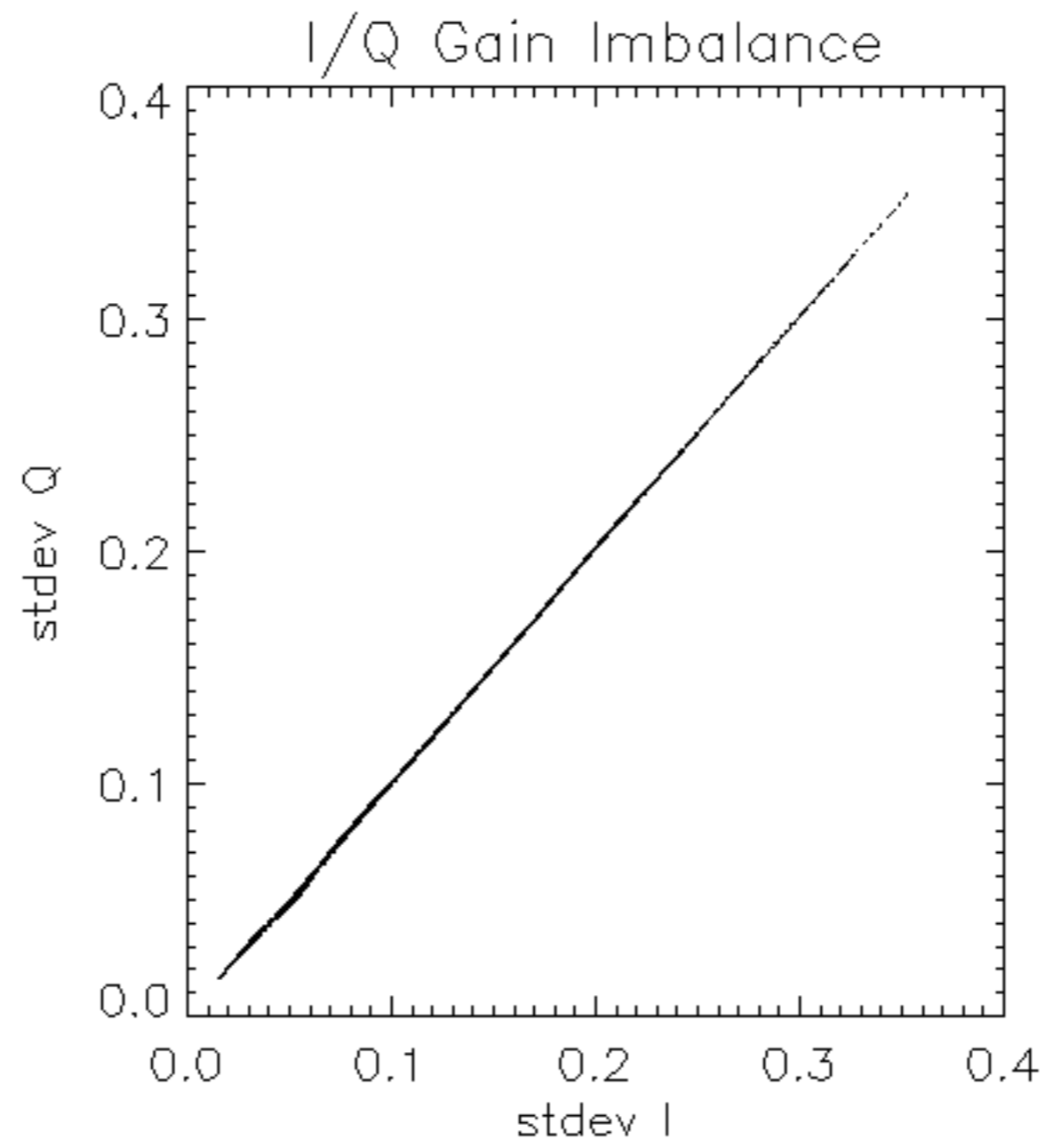
- ASA_MS__0PNPDK20030928_200312_000000152020_00185_08255_0095.N1
- ASA_MS__0PNPDK20030928_200132_000000152020_00185_08255_0096.N1

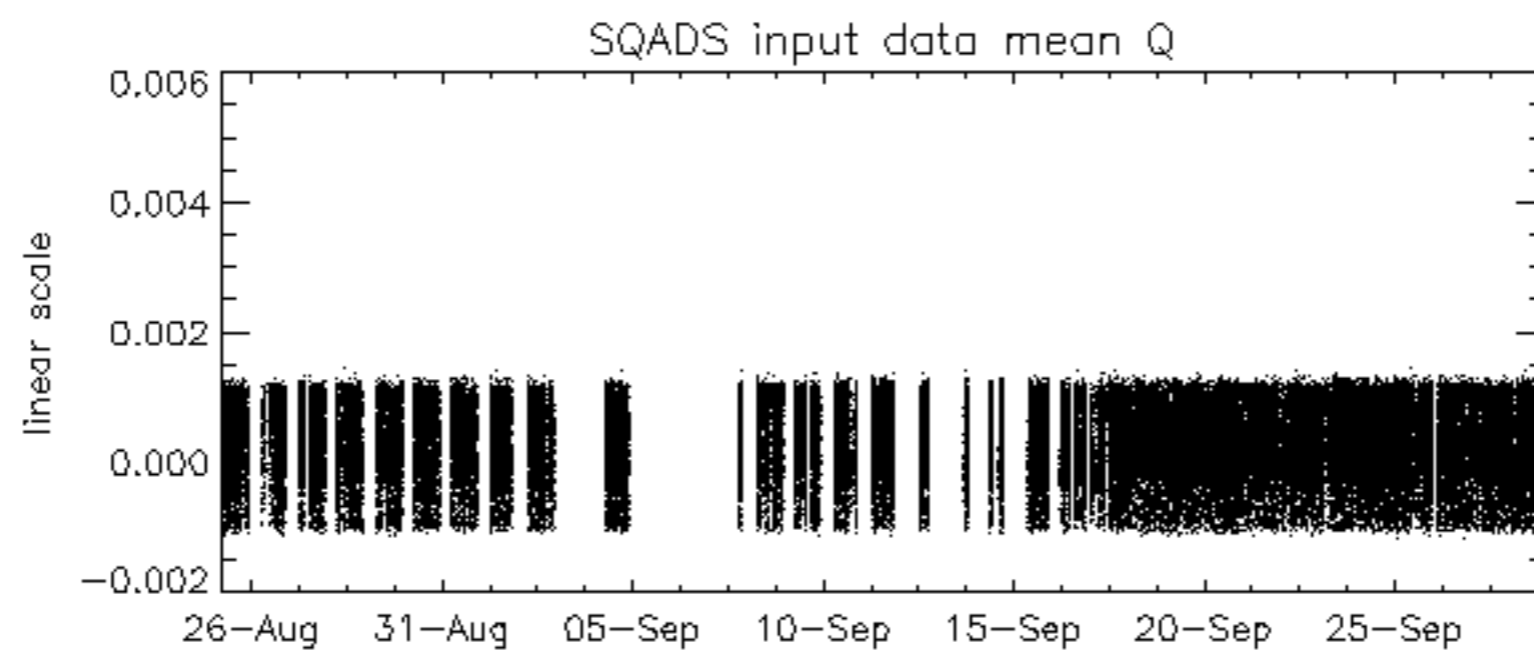
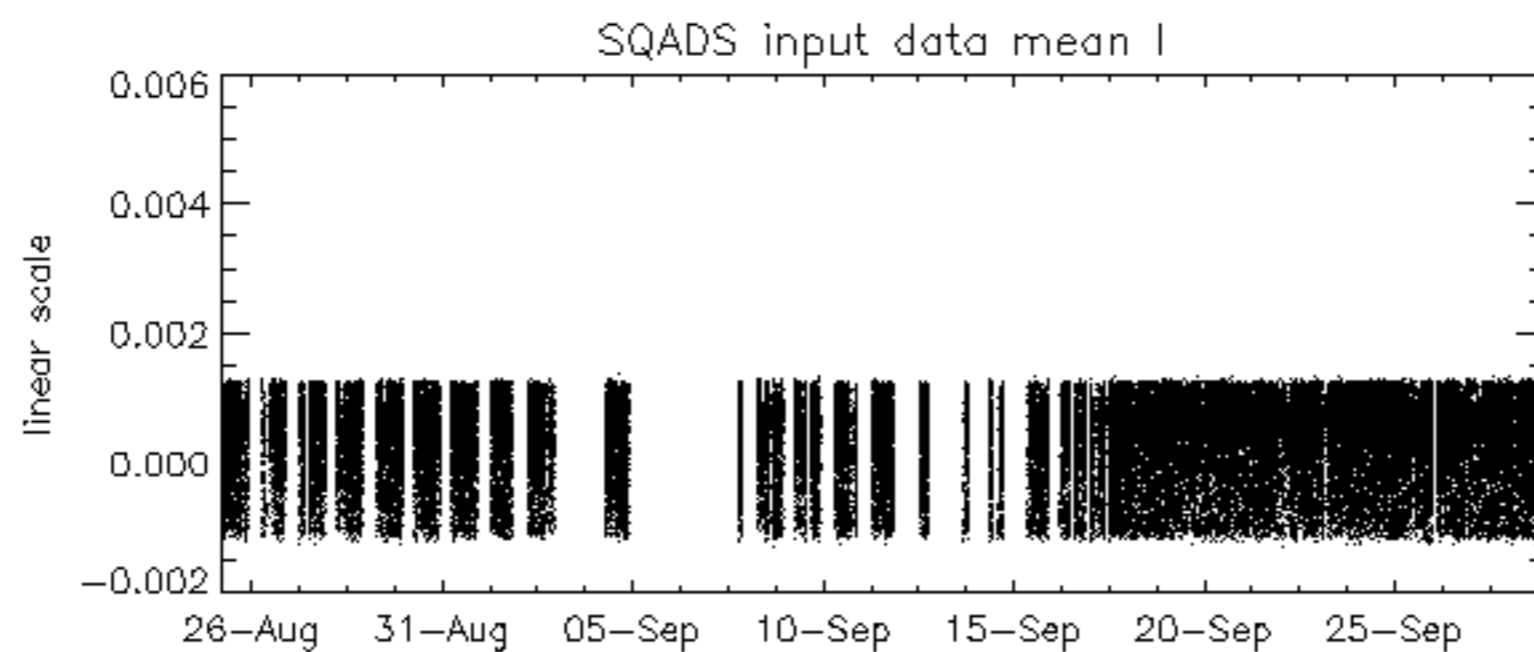
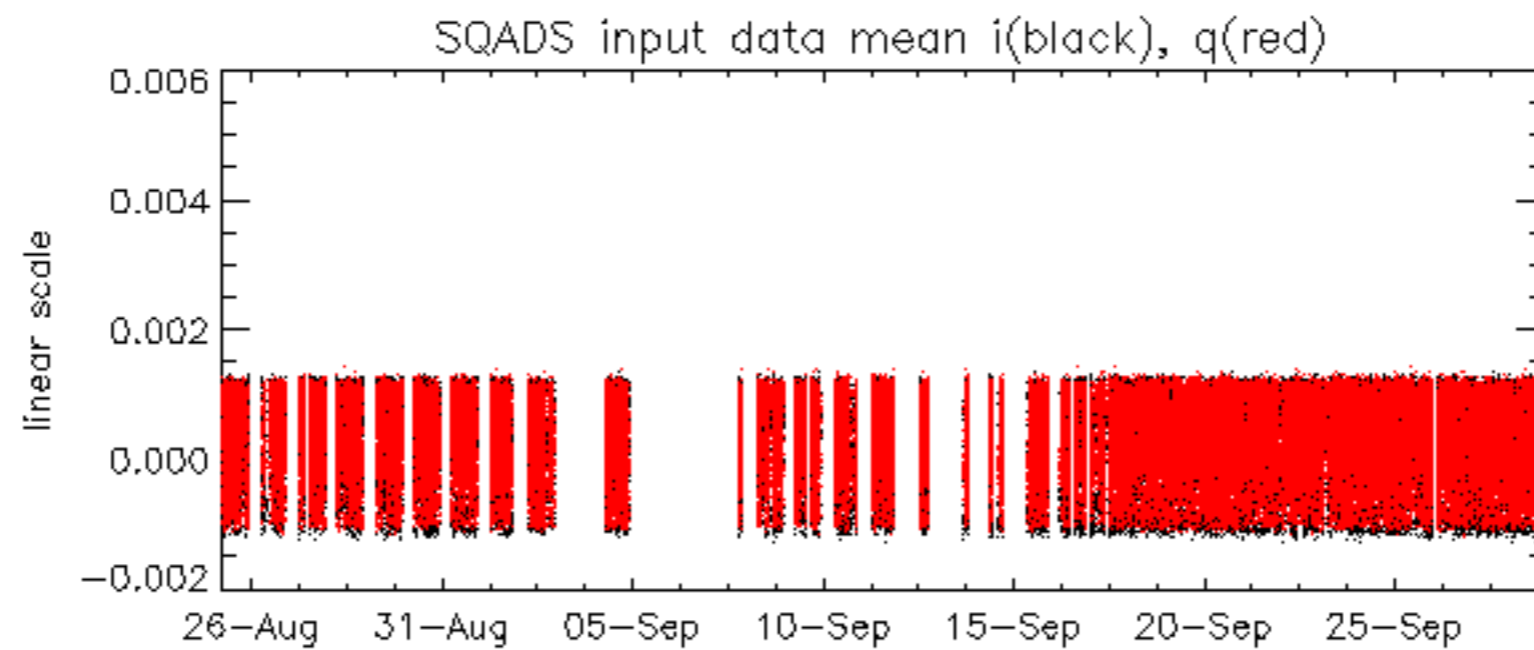
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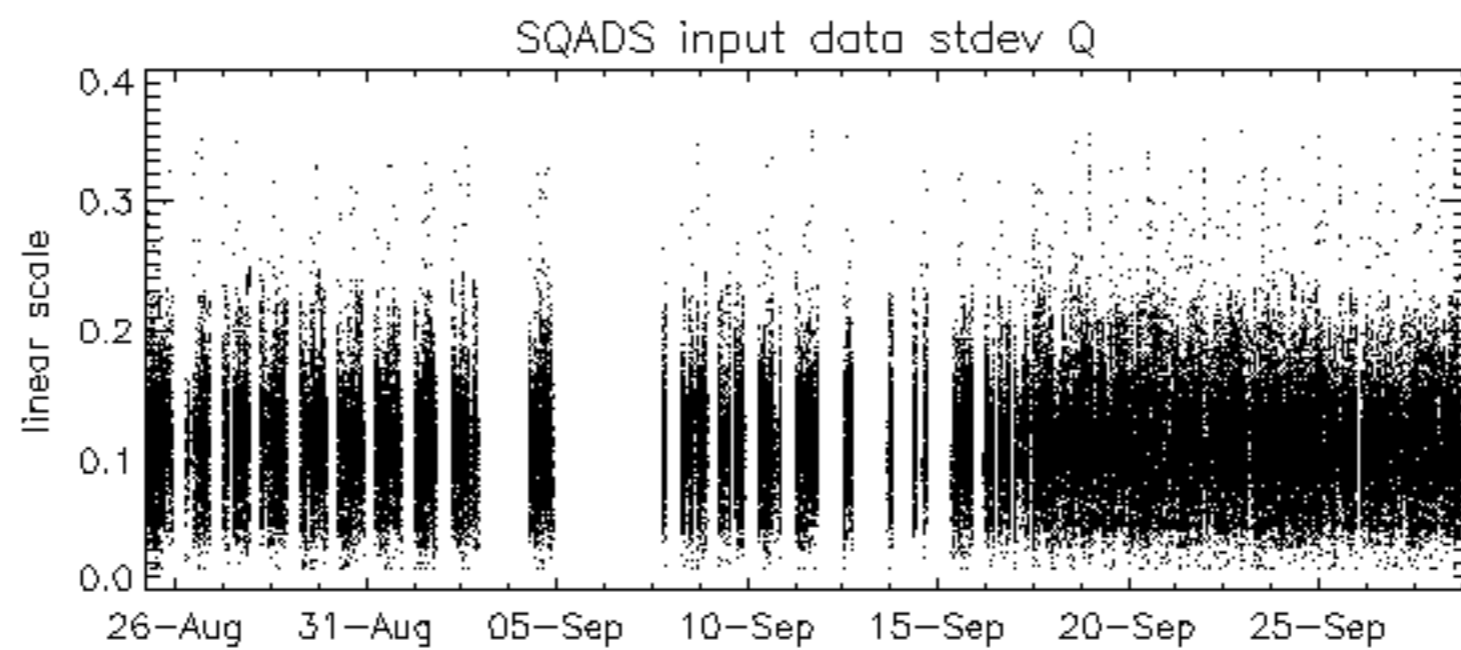
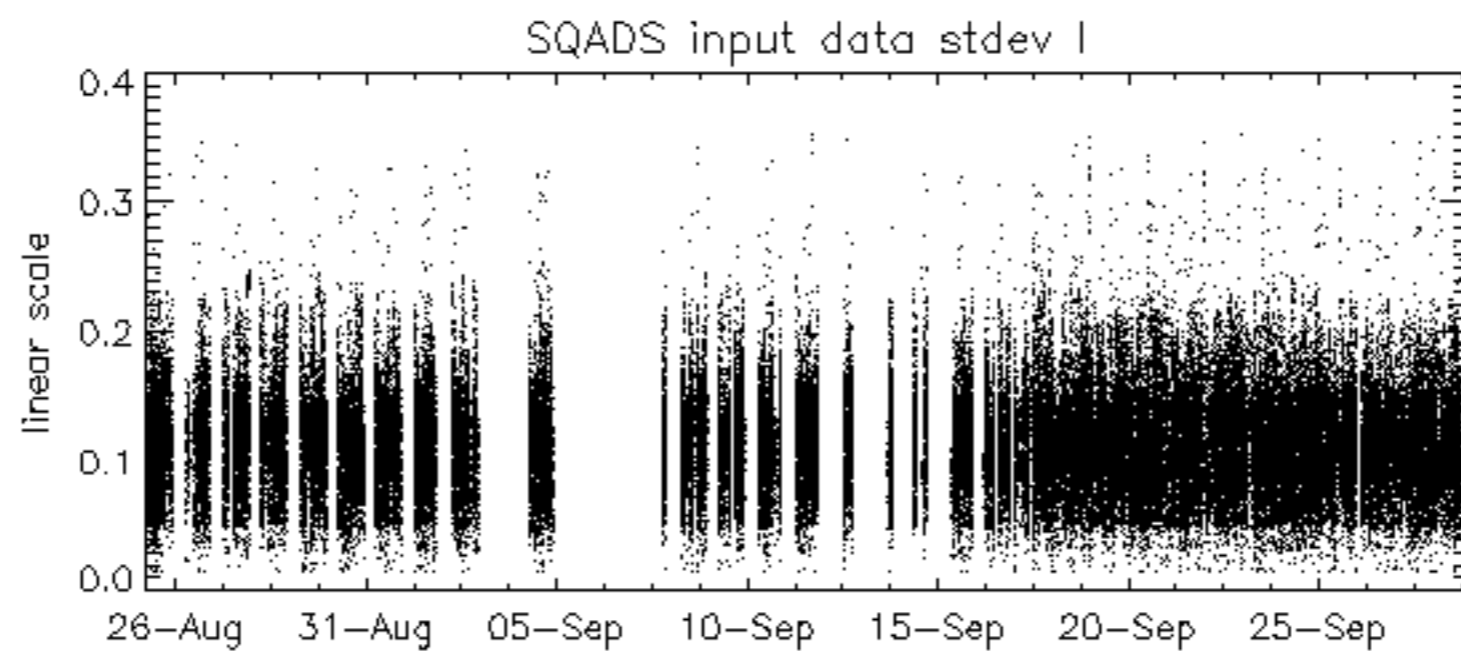
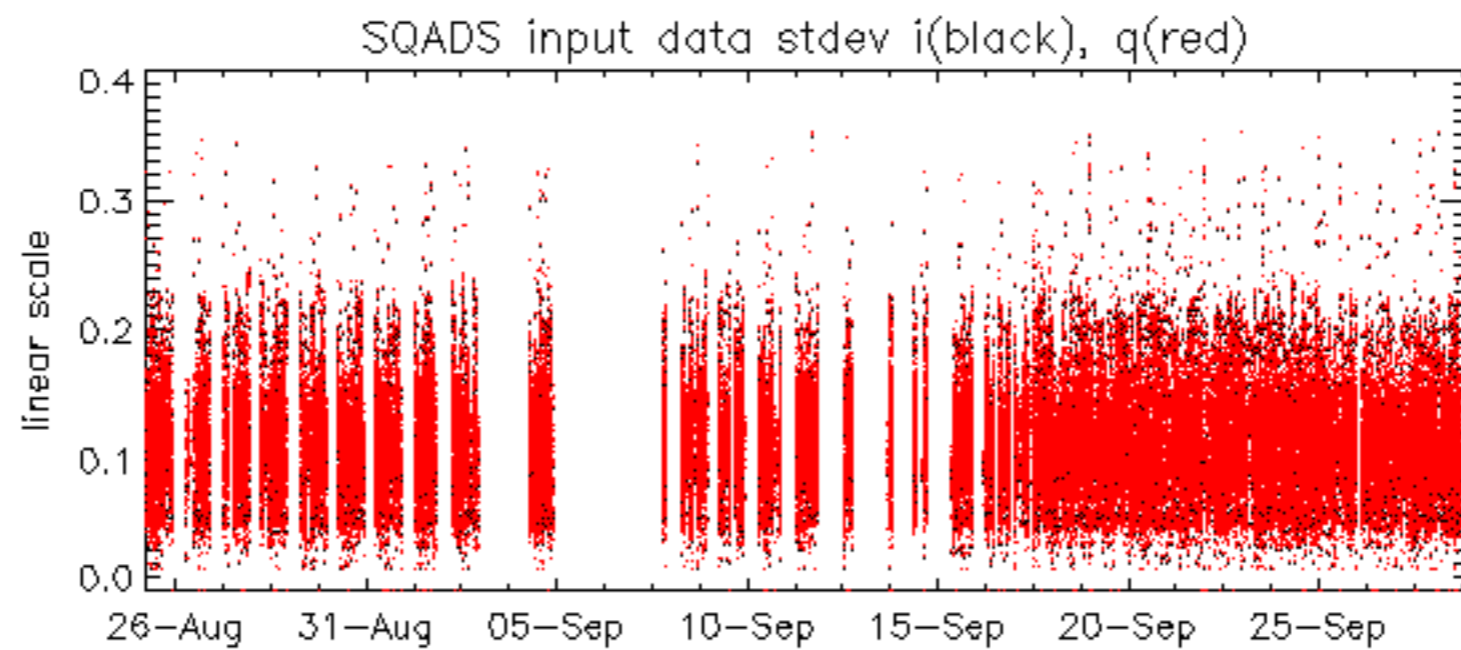
No anomalies observed.

Reference: 2003-06-12 14:10:32 V RxGain
 Test : 2003-09-28 20:03:12 V

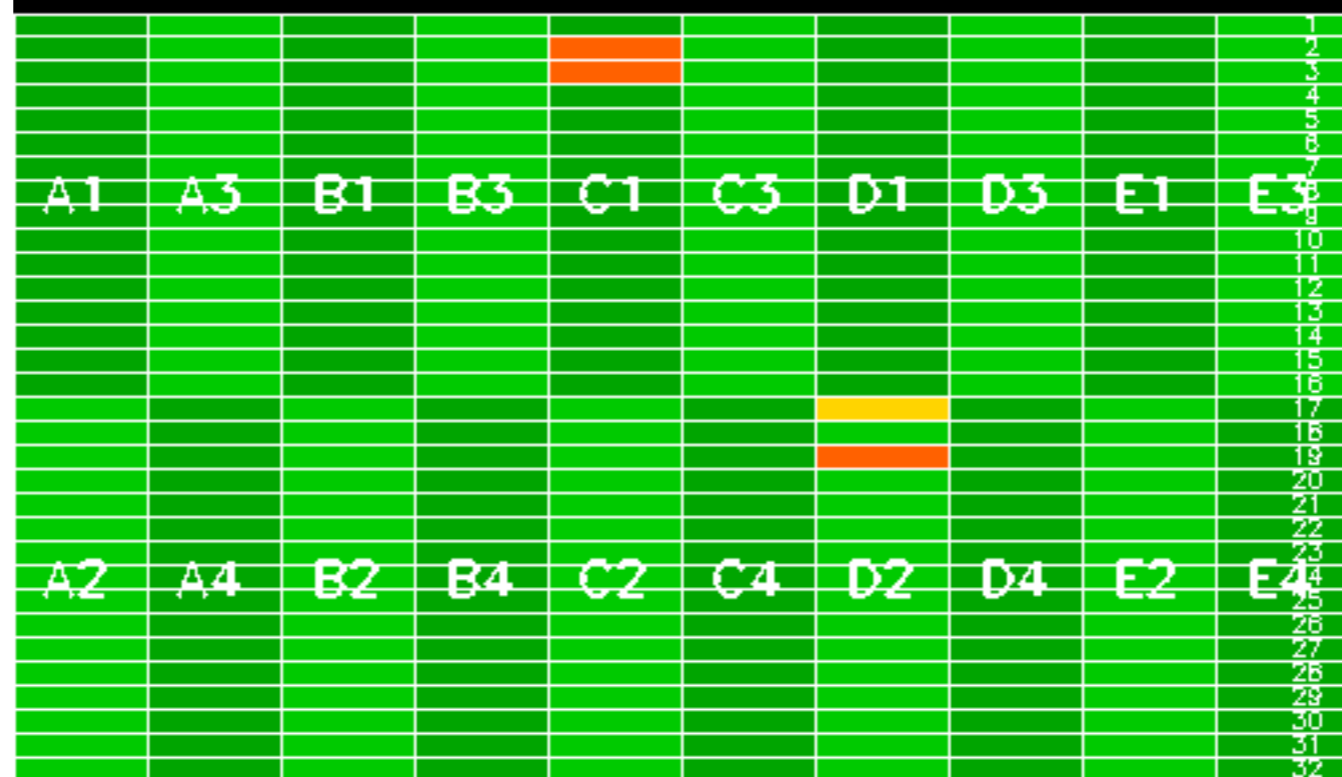








Reference: 2003-06-12 14:08:52 H TxGain
 Test : 2003-09-28 20:01:32 H



No unavailabilities during the reported period.