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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

Instrument unavailability during the reported period detailed in the table below:

Sub-system	Start	Stop	Planned
ASAR	2003-08-20 14:13:59	2003-08-20 17:20:21	yes

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

MS products available for analysis:

- ASA_MS__0PNPDK20030819_210042_000000152018_00615_07683_0010.N1 (V/V pol.)
- ASA_MS__0PNPDK20030820_202726_000000152019_00128_07697_0008.N1 (H/H pol.)

No anomalies detected.

Stable configuration for the phase of TR module 3 on Tile B3 as shown in the figure below.



Polarisation	Start Time
V	20030819 210042
H	20030820 202726

MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

MSM in H/H polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.77724	-22.5170	-8.09098
	stdev	0.00692084	0.0652485	0.00359314
10	mean	-6.83508	-19.2925	-8.09098
	stdev	0.0339886	0.0640028	0.00359314



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.81727	-22.5572	-8.10588
	stdev	0.00569990	0.0627250	0.00238930
10	mean	-6.89303	-19.3268	-8.10588
	stdev	0.0268735	0.0611196	0.00238930



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	0.000459439
	stdev	3.12240e-07
MEAN Q	mean	0.000295332

stdev	3.24989e-07
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5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115188
	stdev	0.00157827
STDEV Q	mean	0.115346
	stdev	0.00160519



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

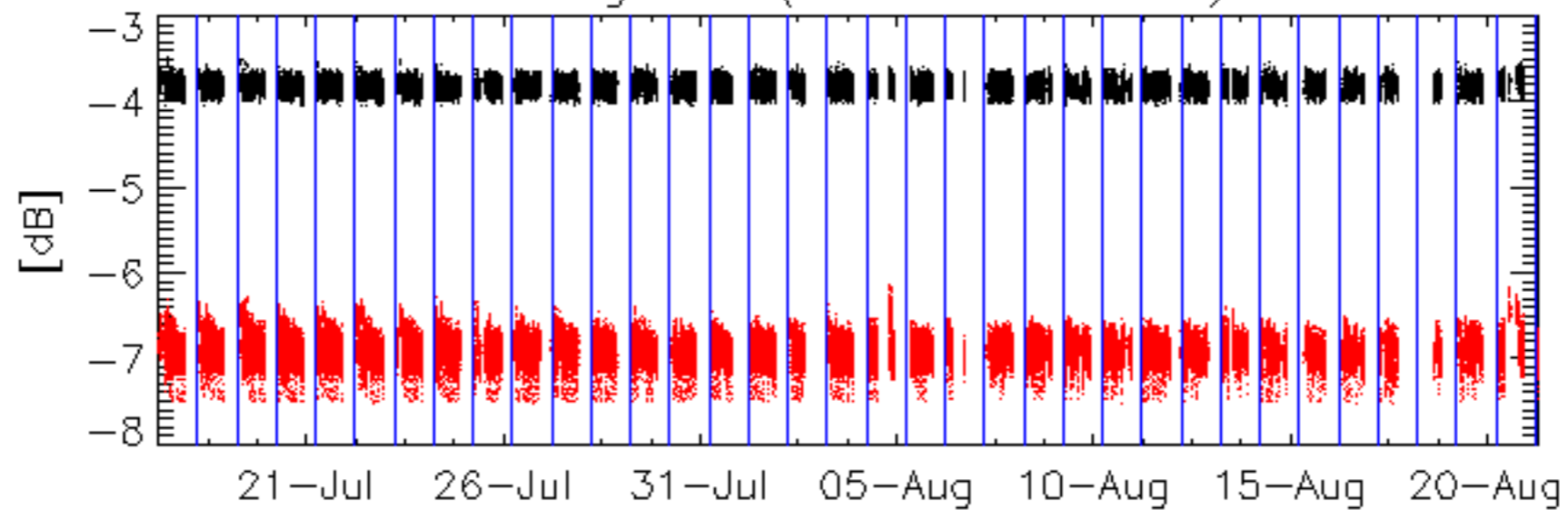
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

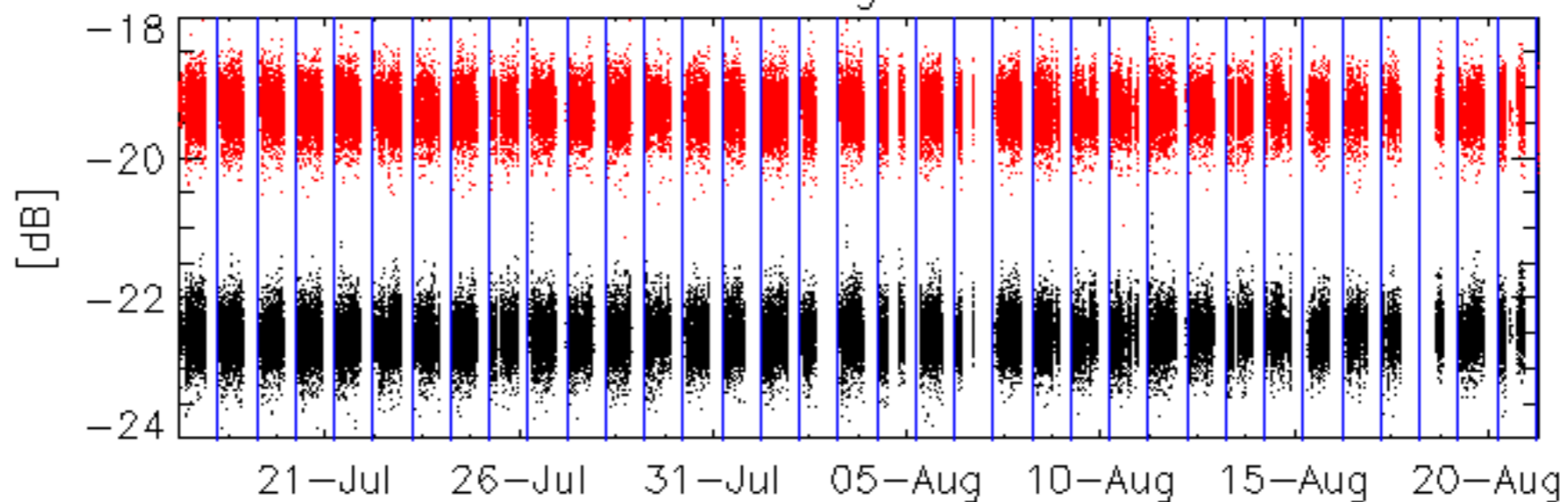
Evolution Doppler error versus ANX



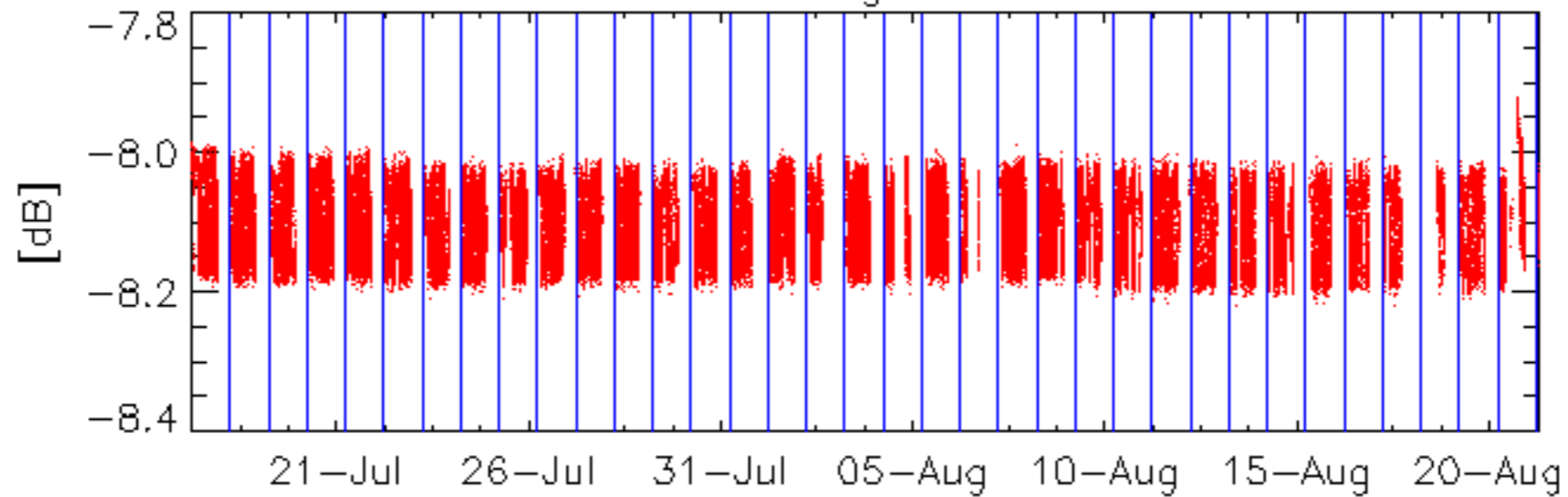
Average P1 (row 3 & row 10)



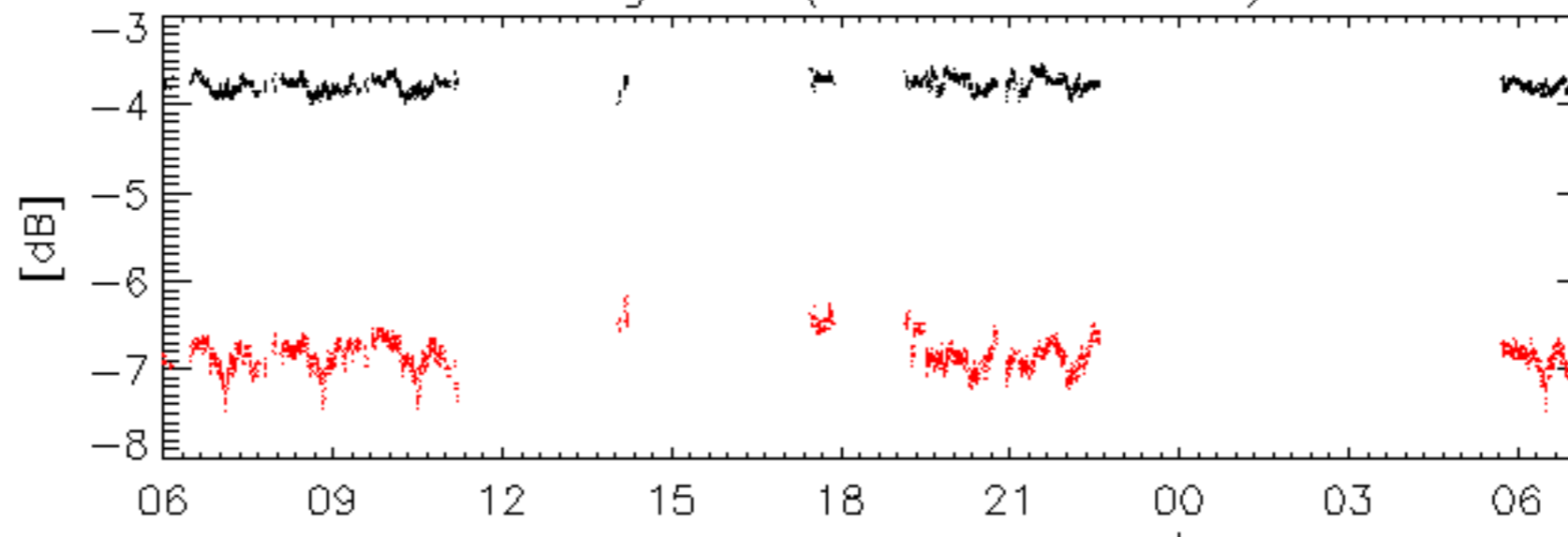
Average P2



Average P3

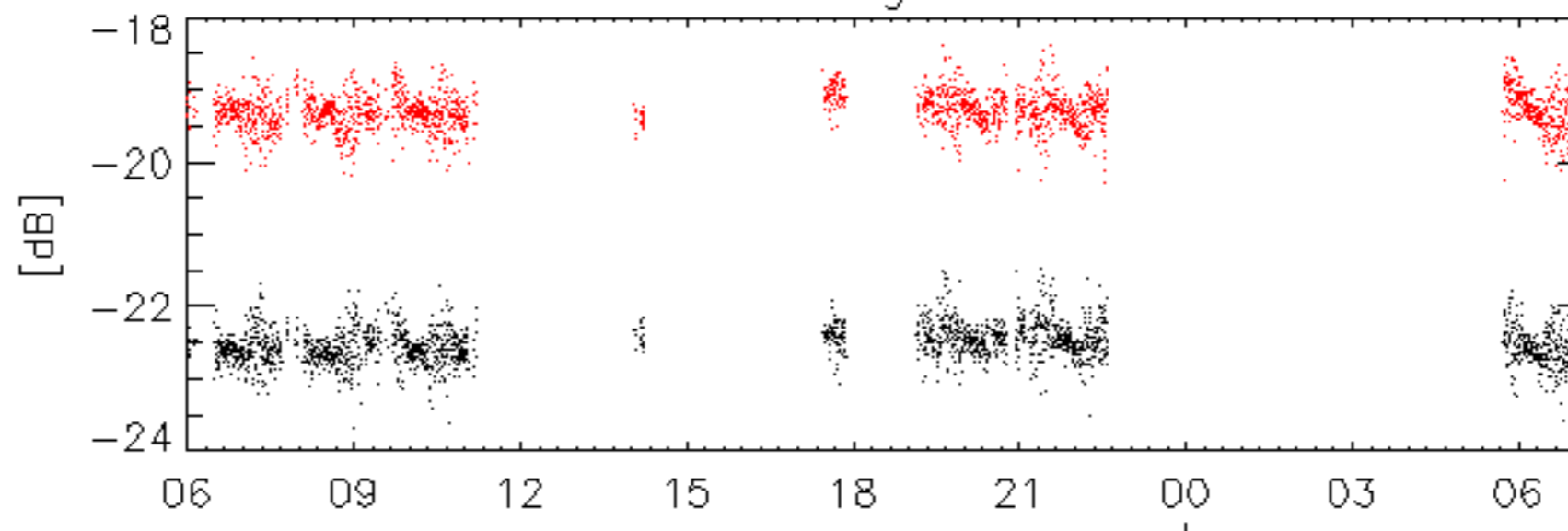


Average P1 (row 3 & row 10)



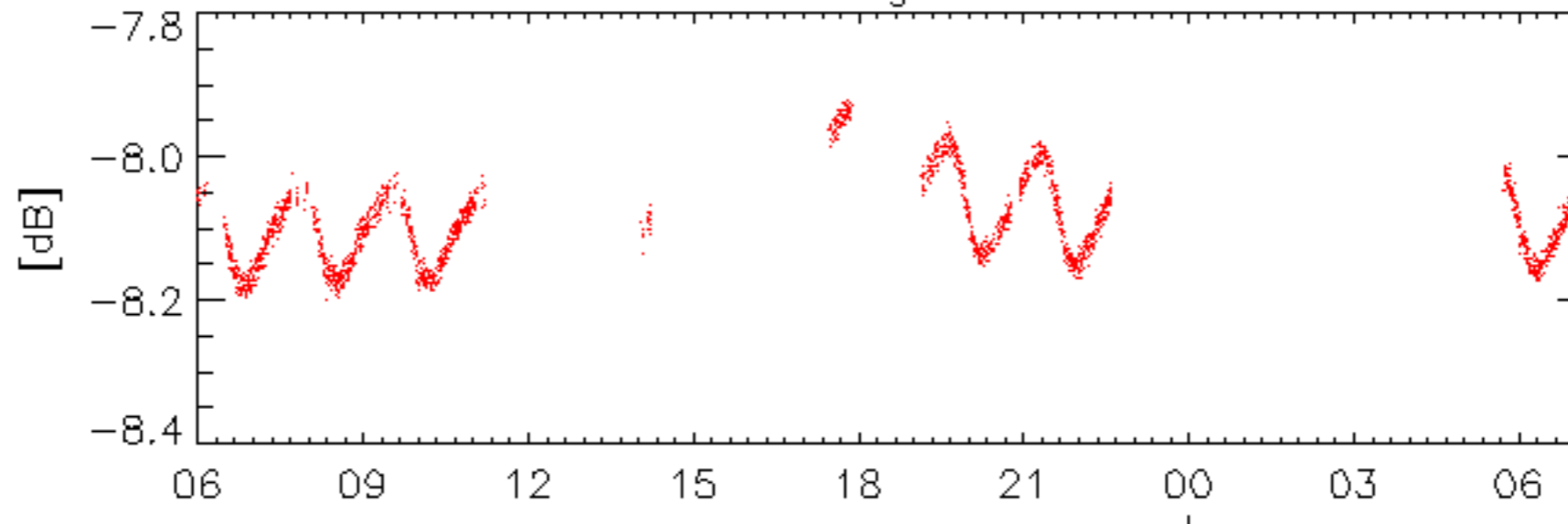
21-Aug

Average P2

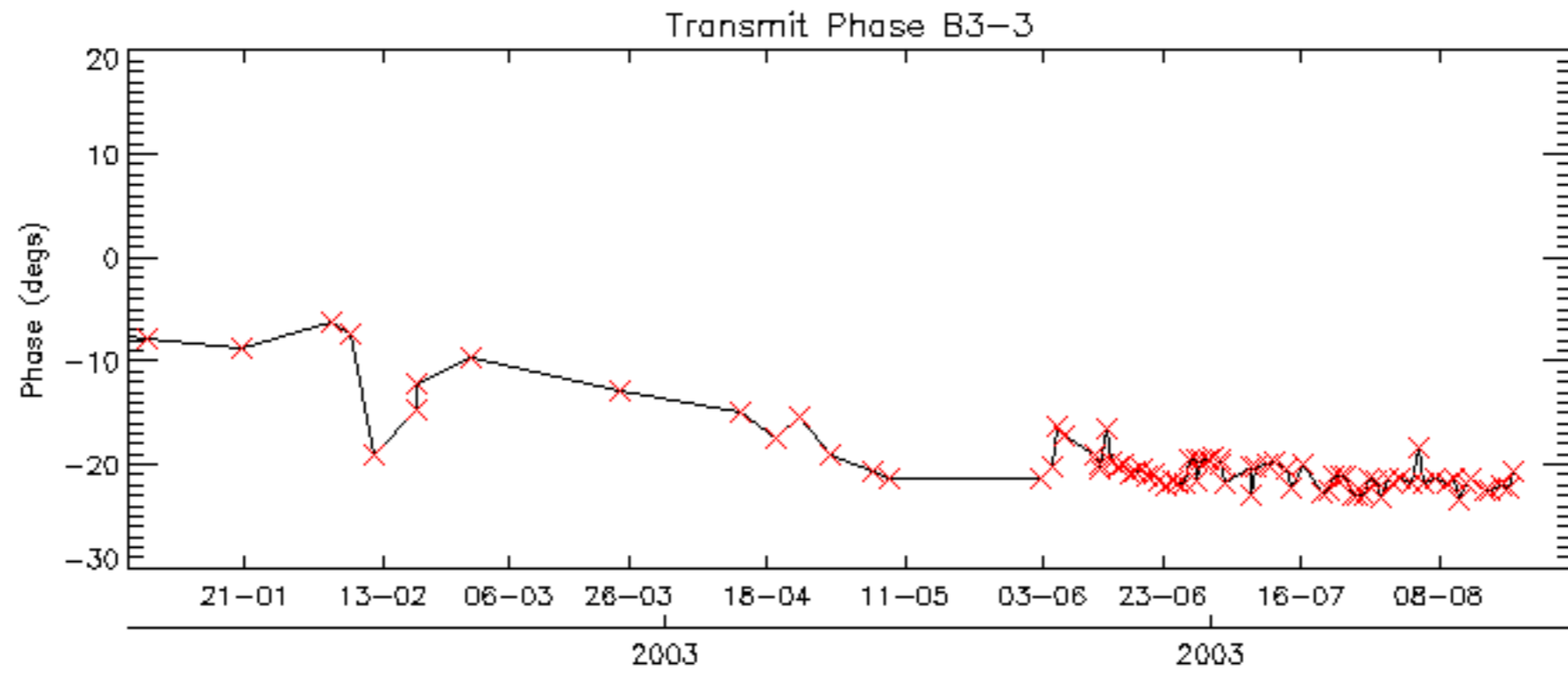


21-Aug

Average P3

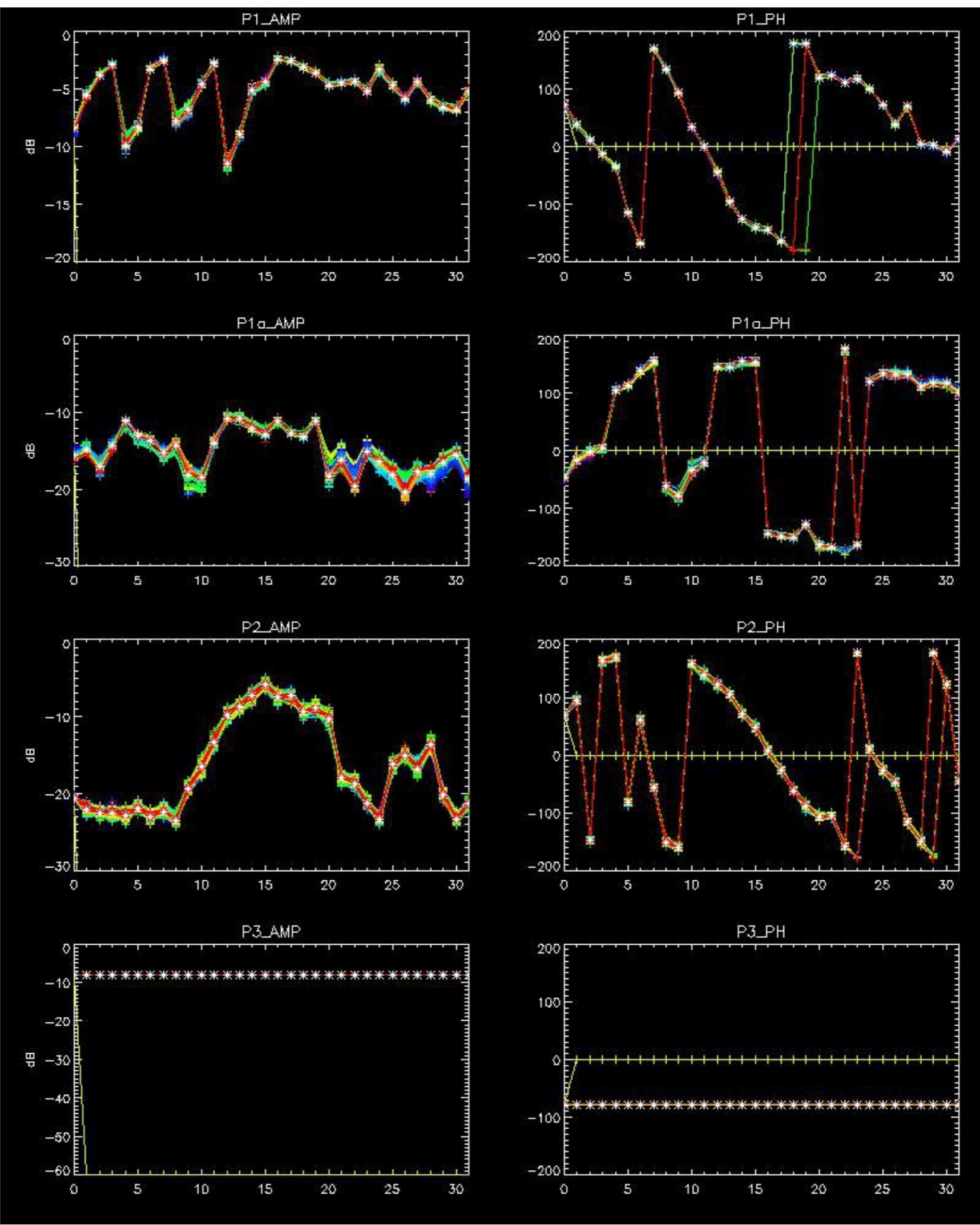


21-Aug



No anomalies observed on available browse products.

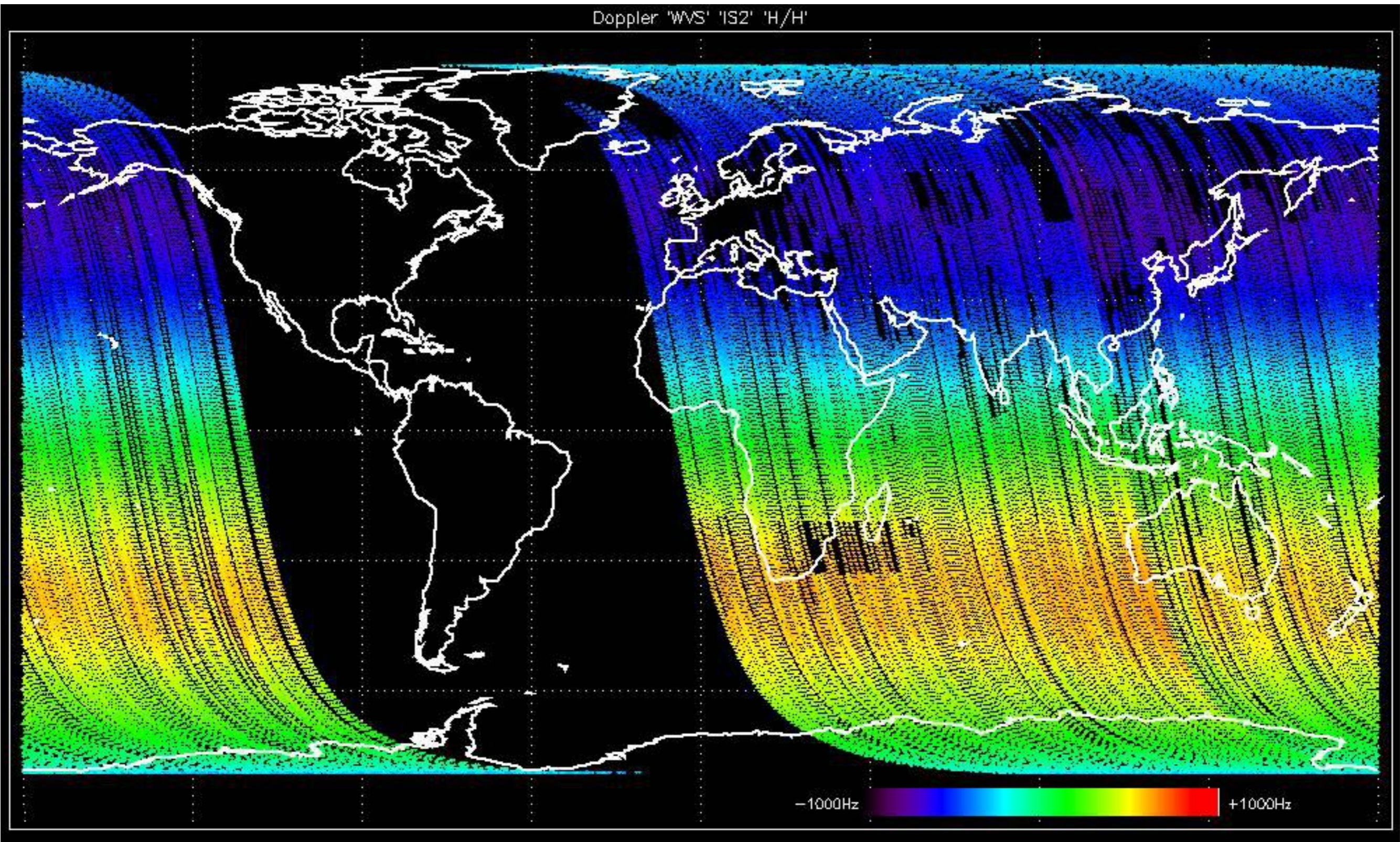
No anomalies observed.



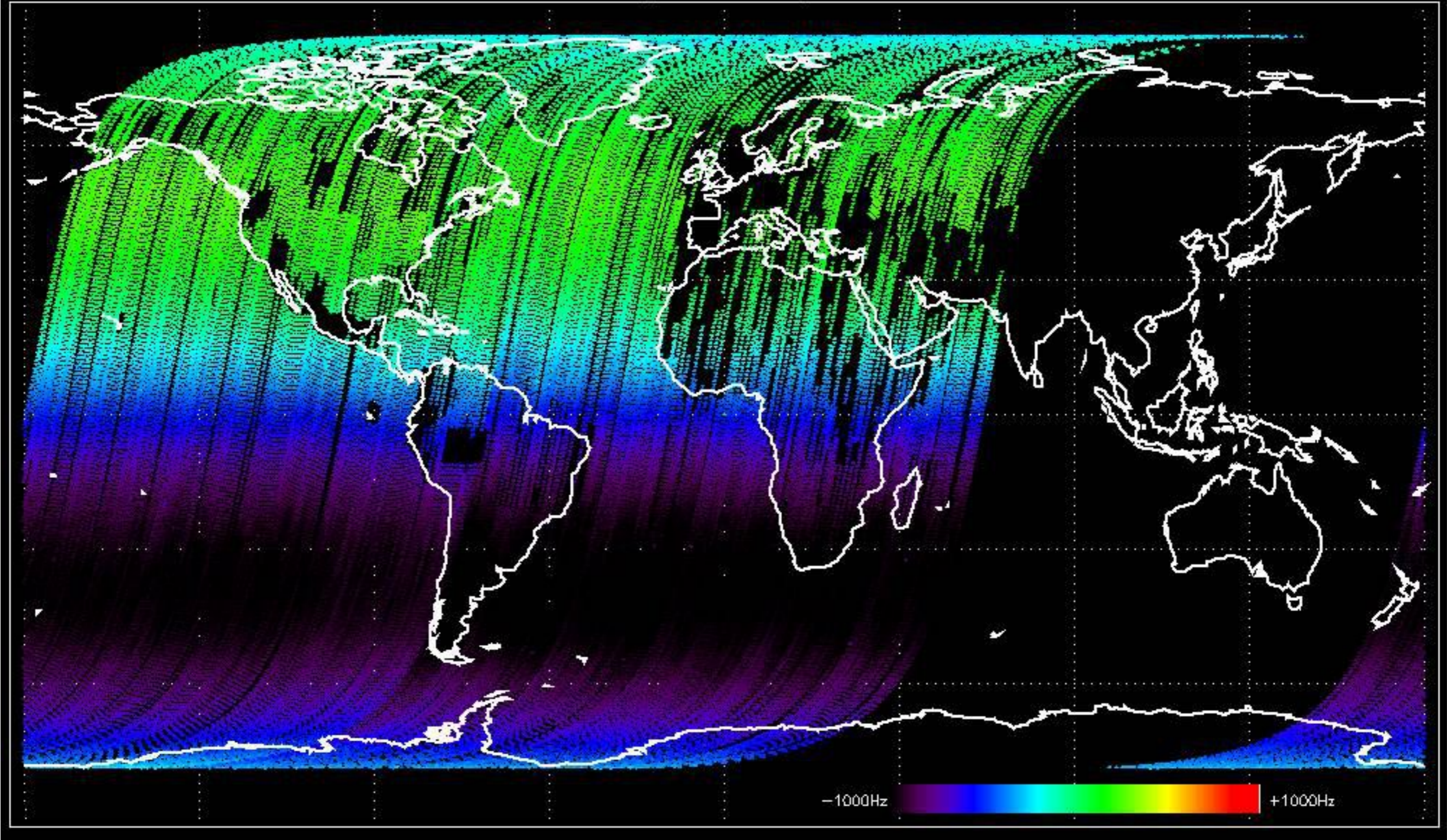
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
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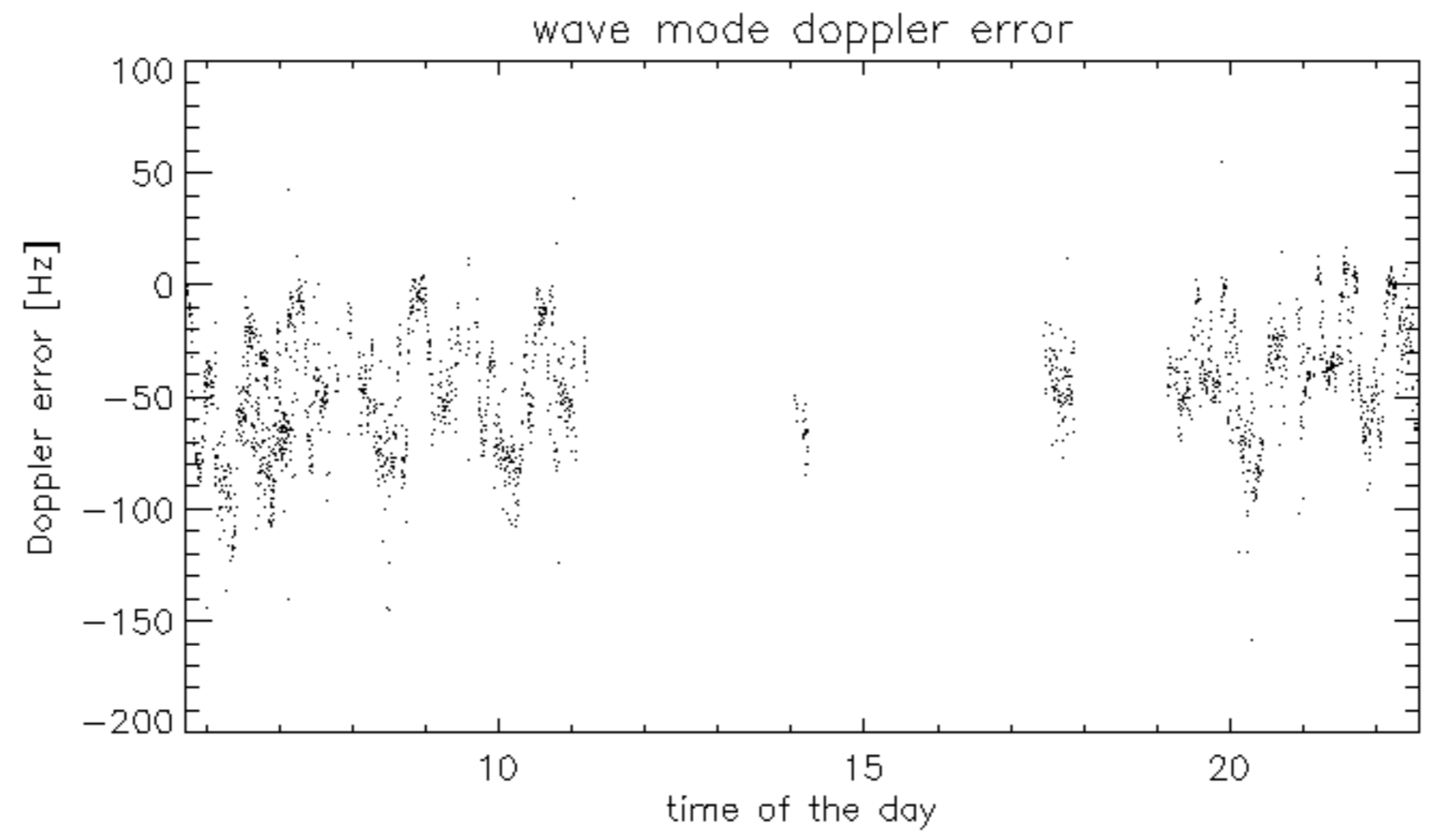
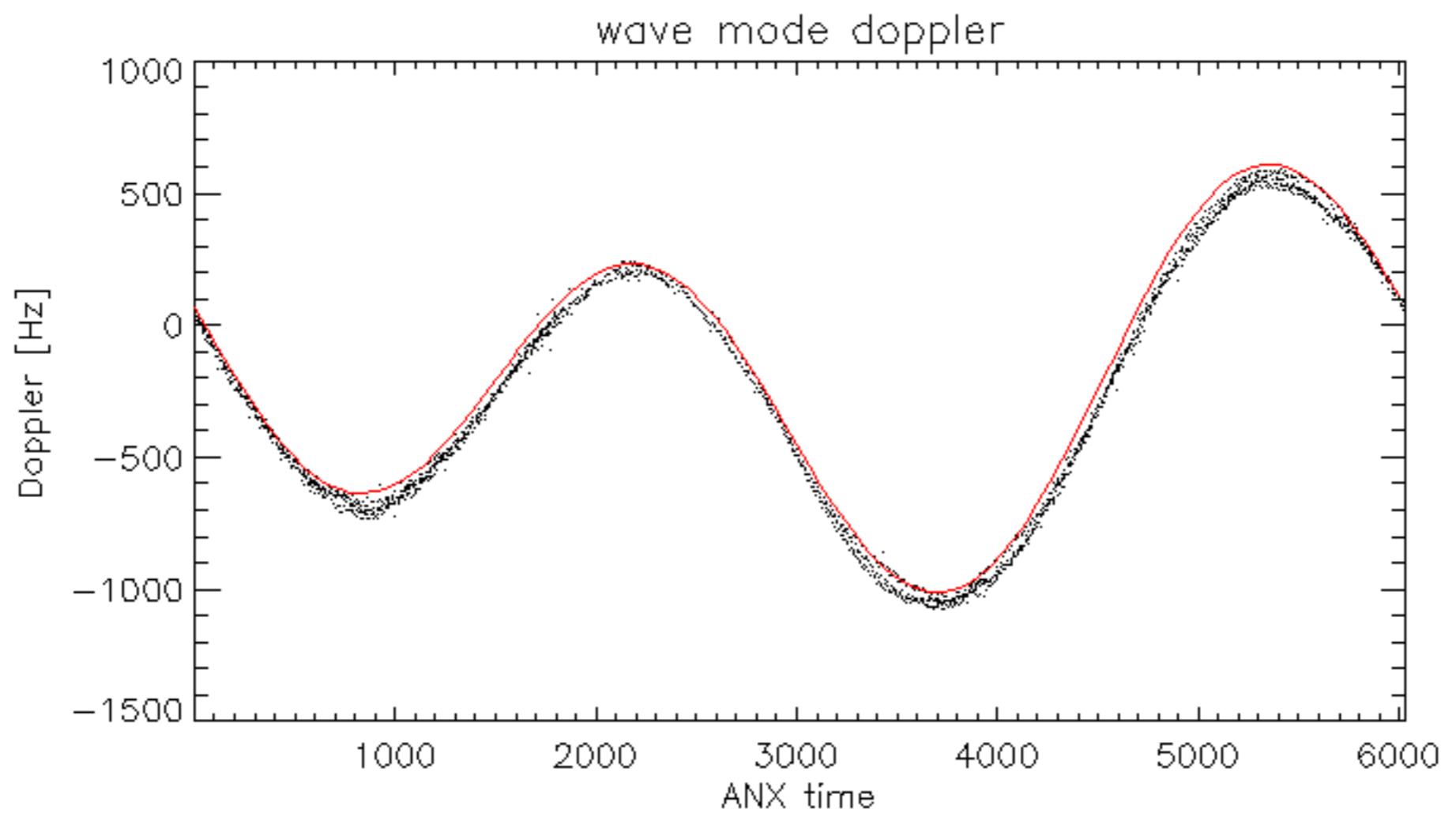
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

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

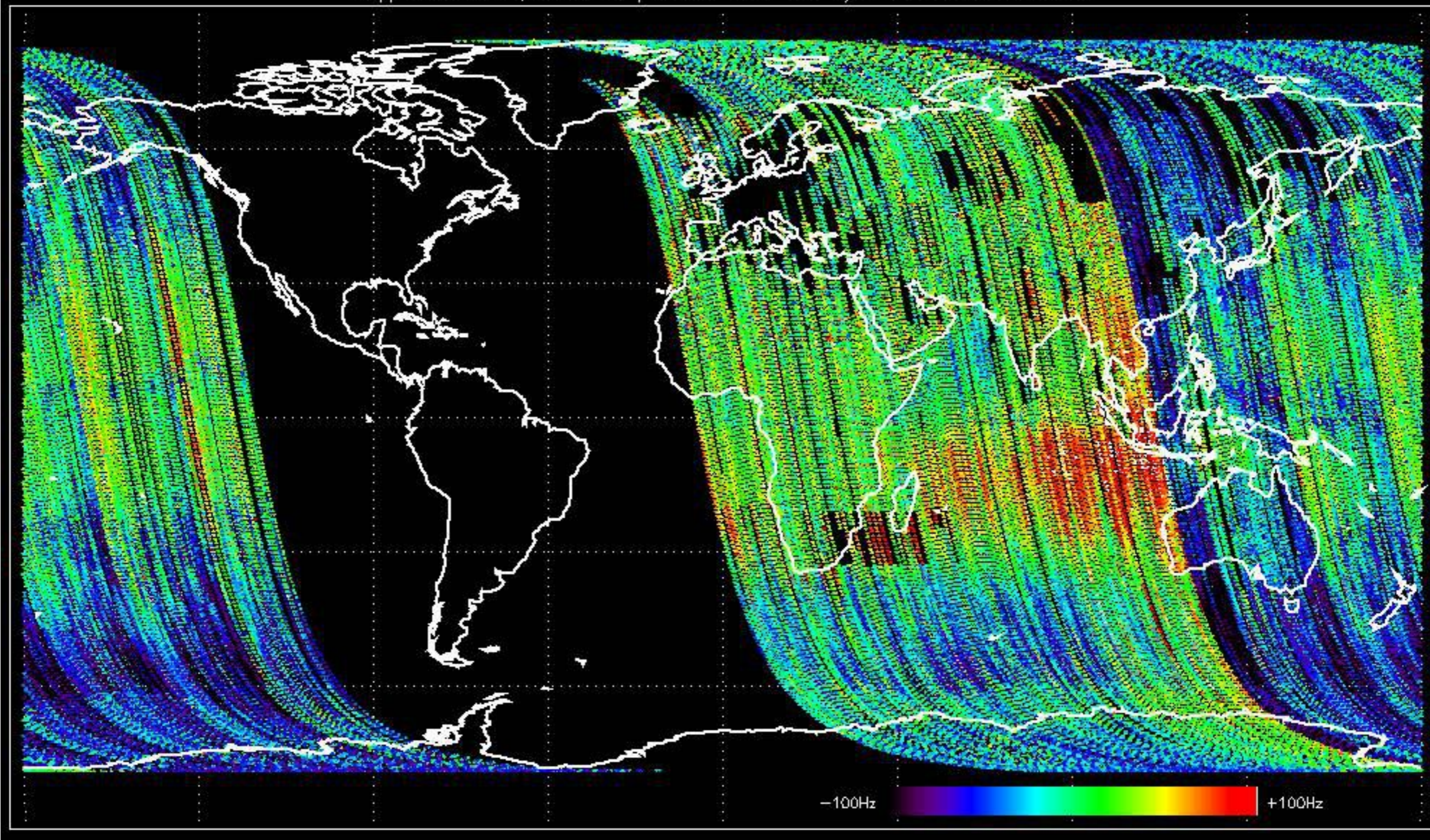


Doppler 'WVS' 'IS2' 'V/V'

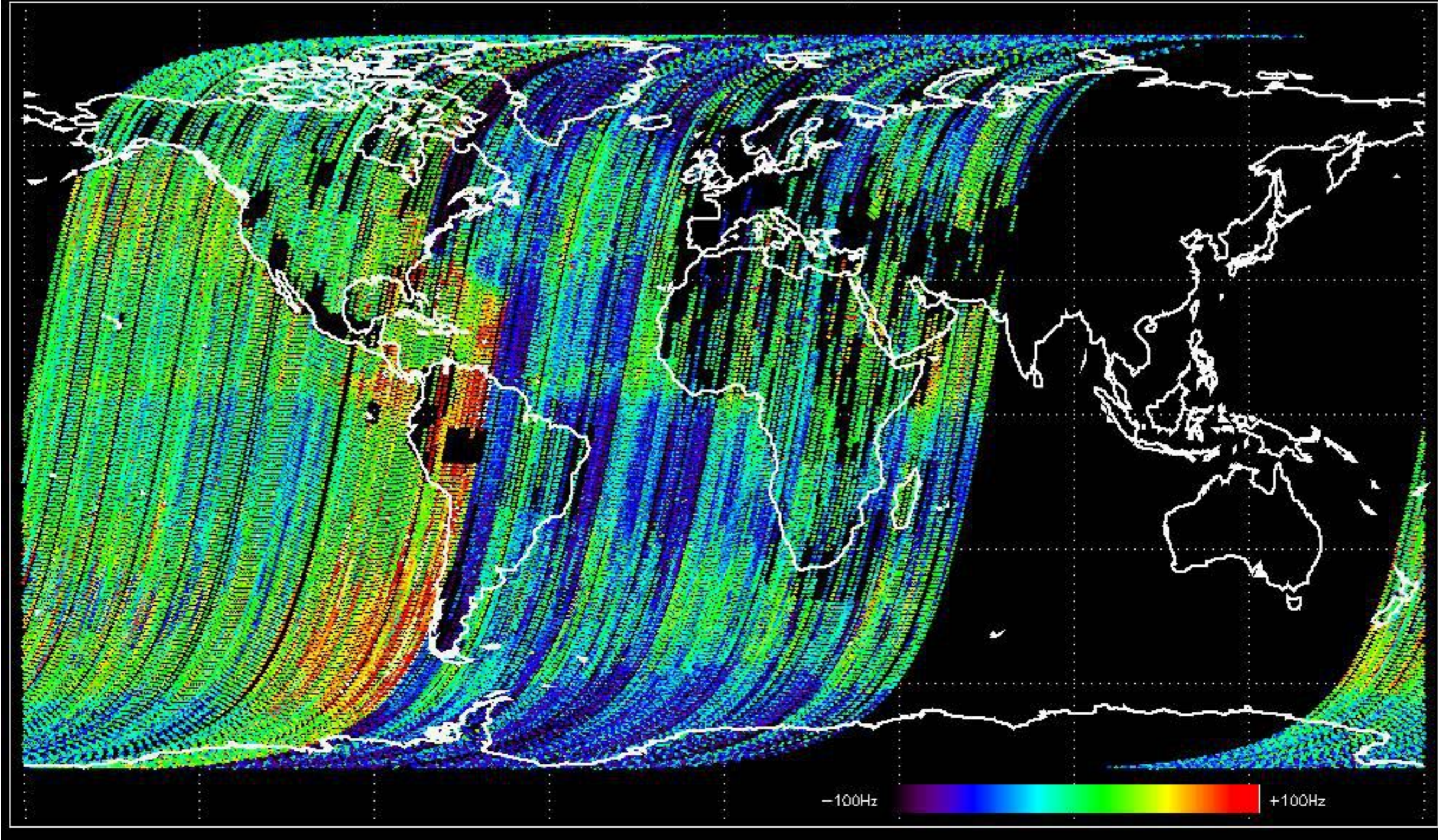




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



MS products available for analysis:

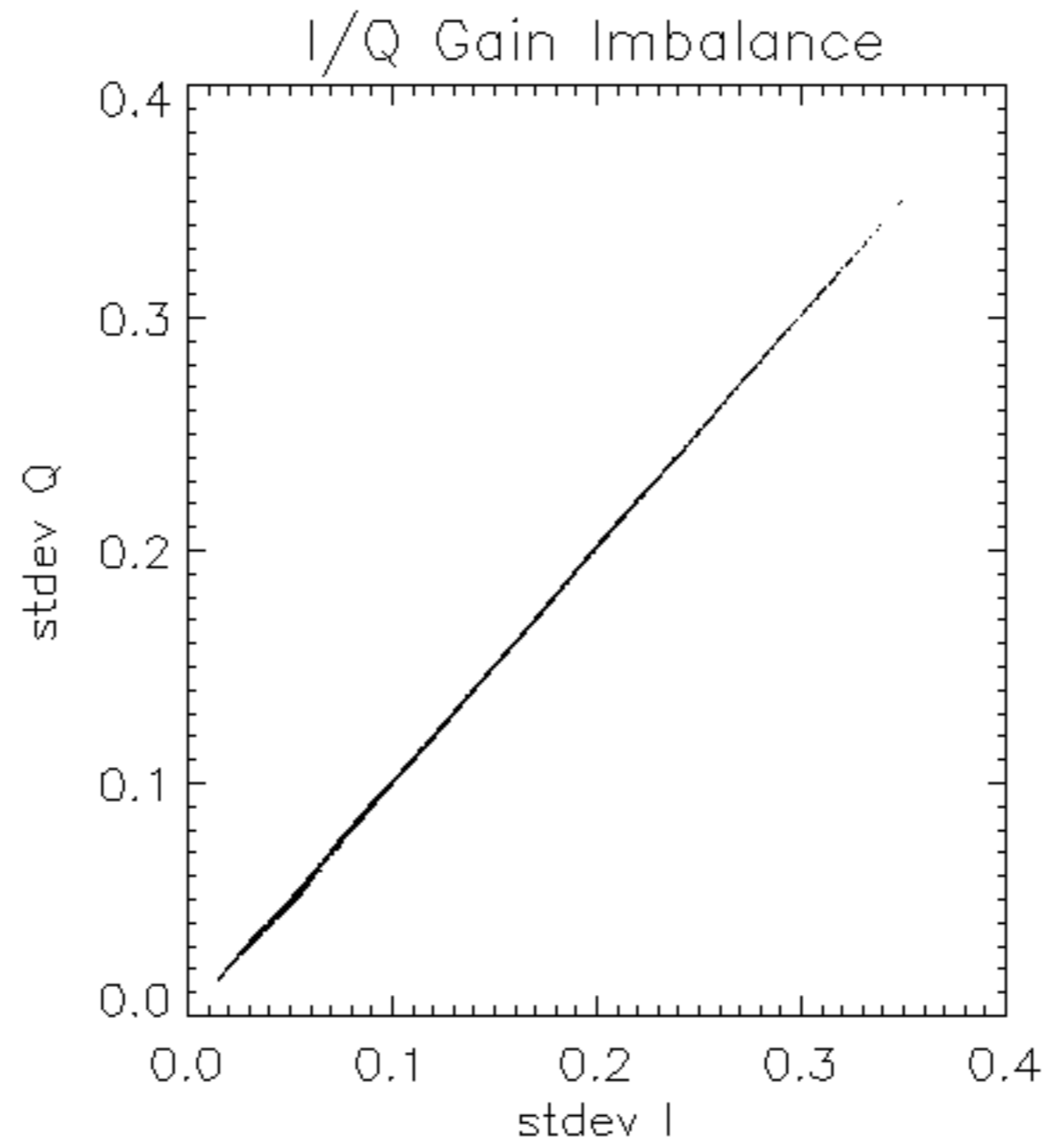
-ASA_MS__0PNPDK20030819_210042_000000152018_00615_07683_0010.N1 (H/H pol.)

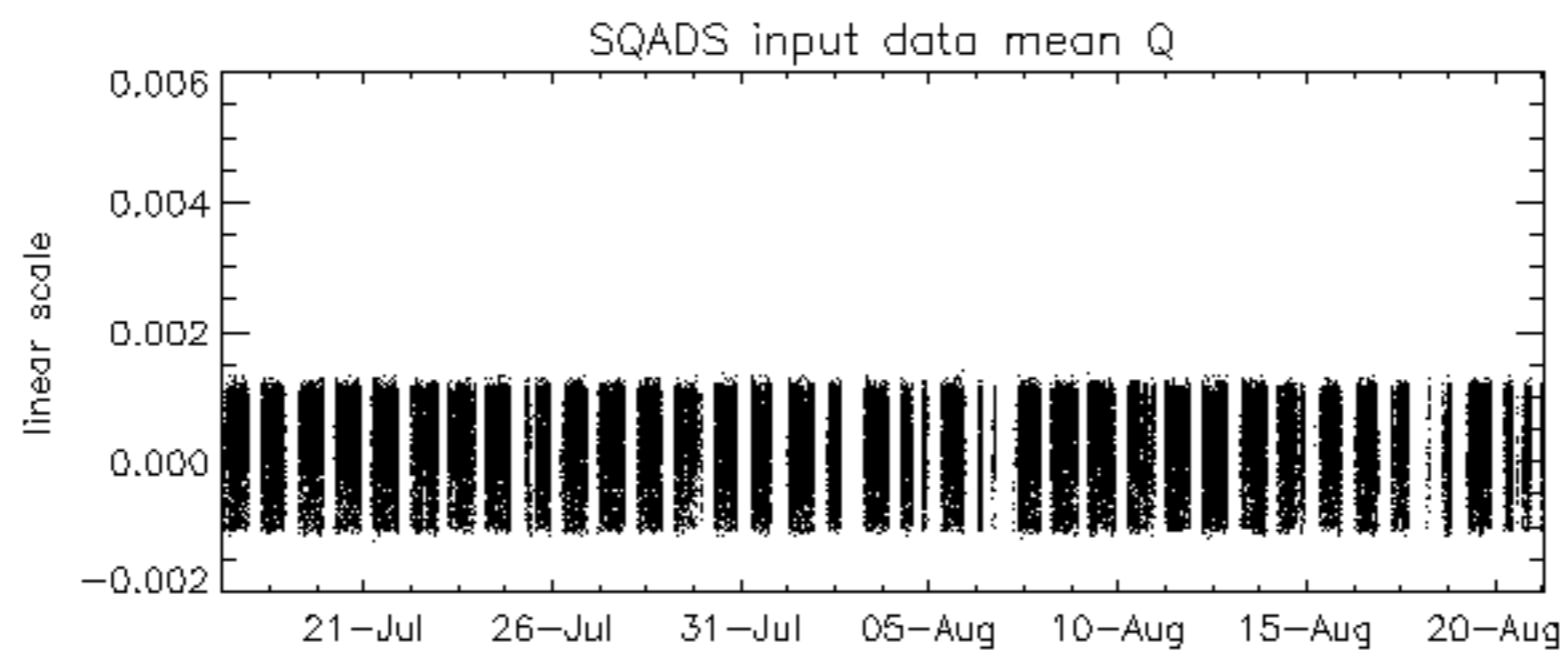
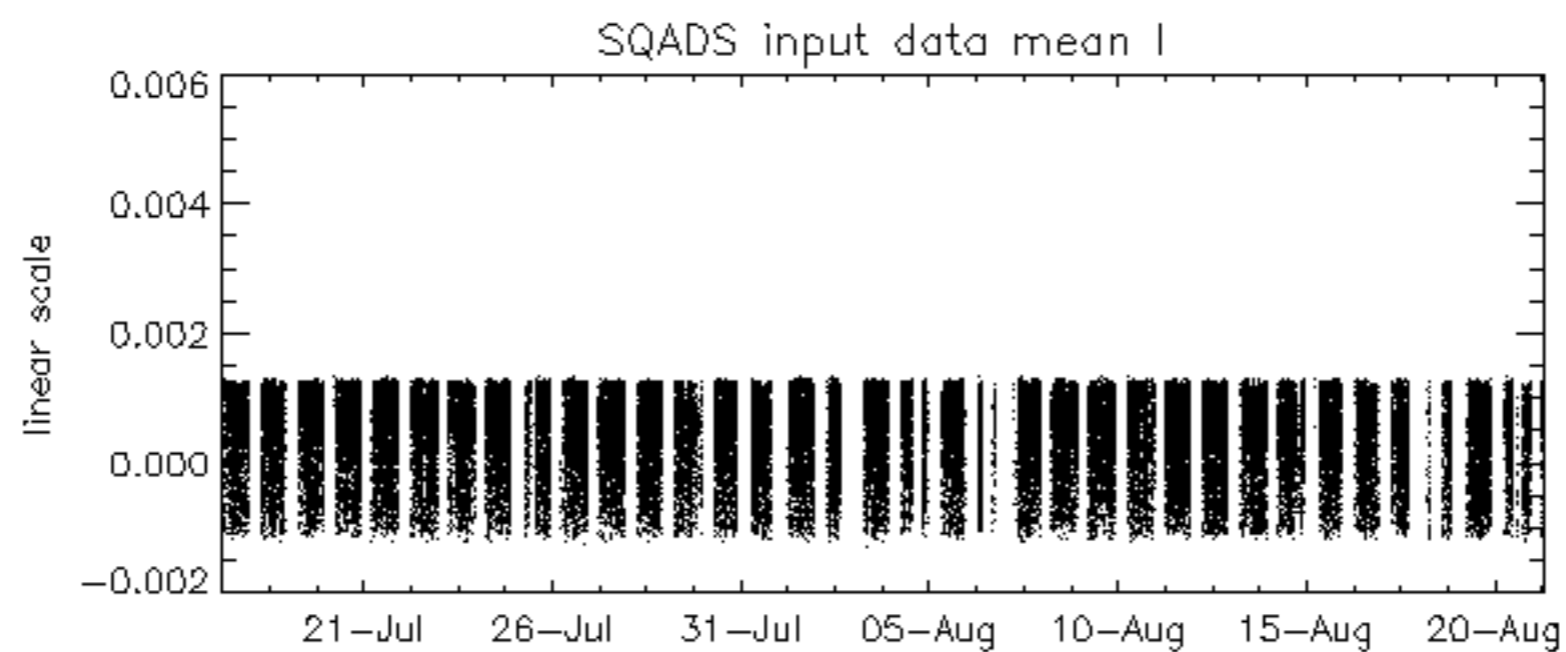
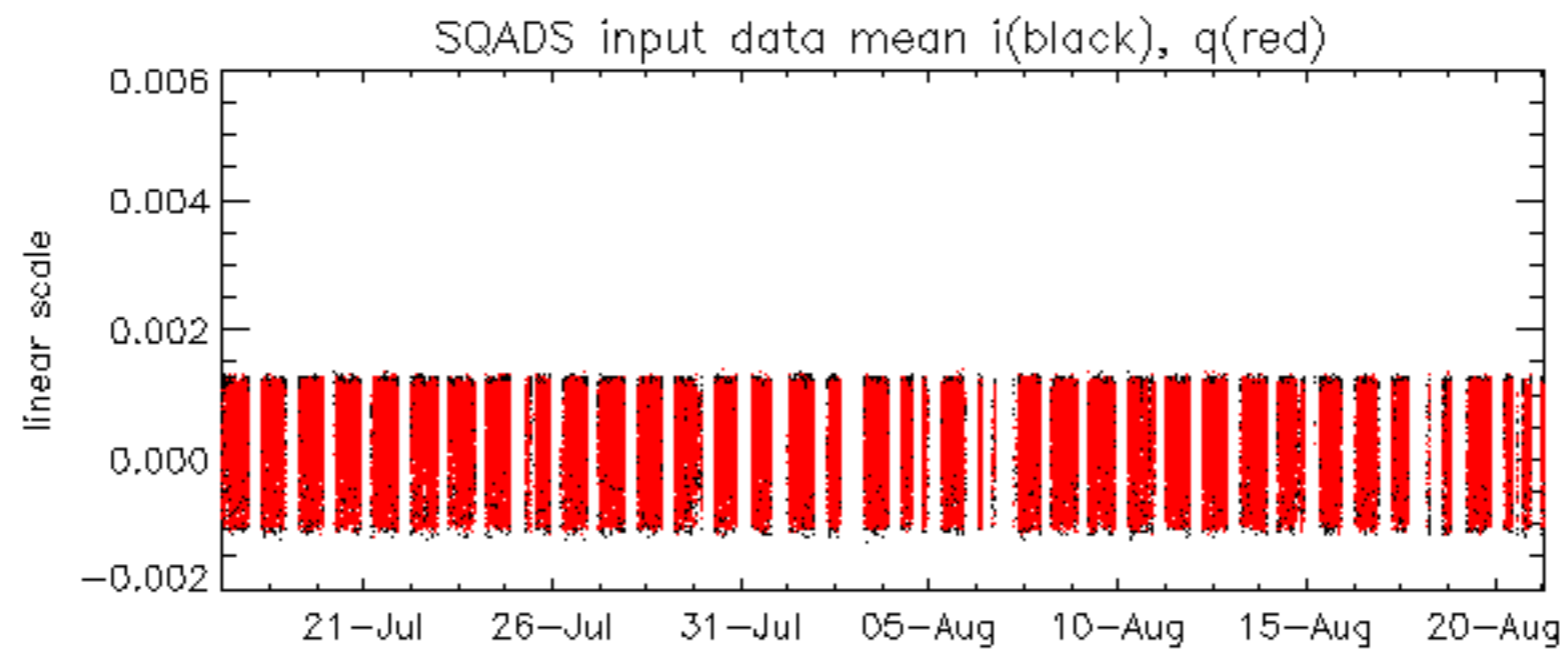
-ASA_MS__0PNPDK20030820_202726_000000152019_00128_07697_0008.N1 (V/V pol.)

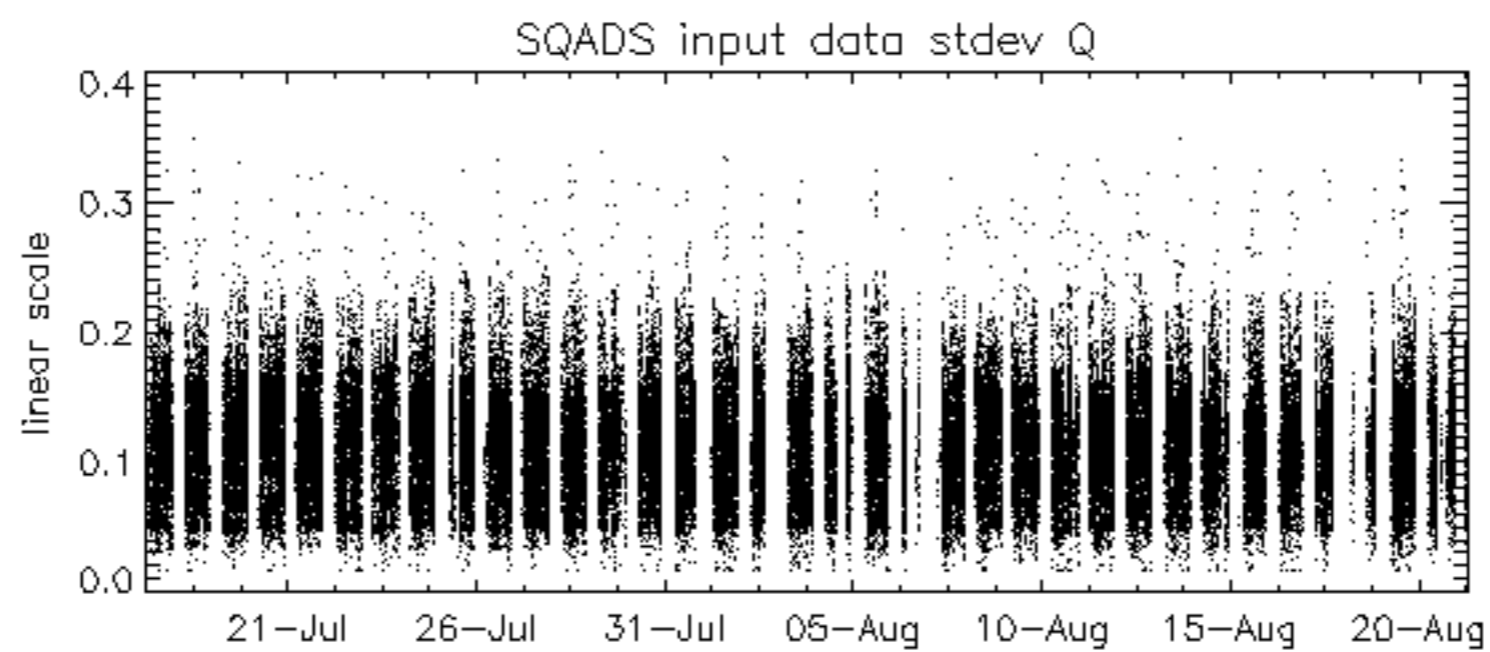
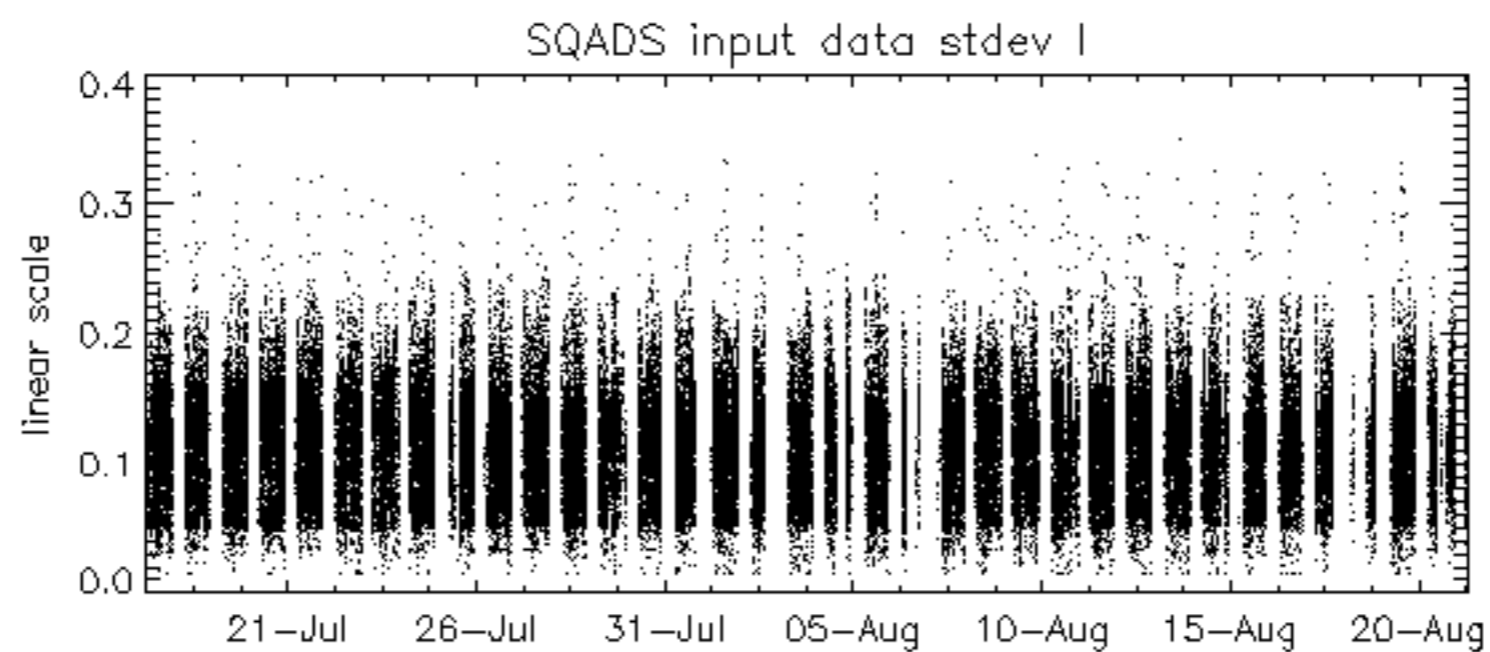
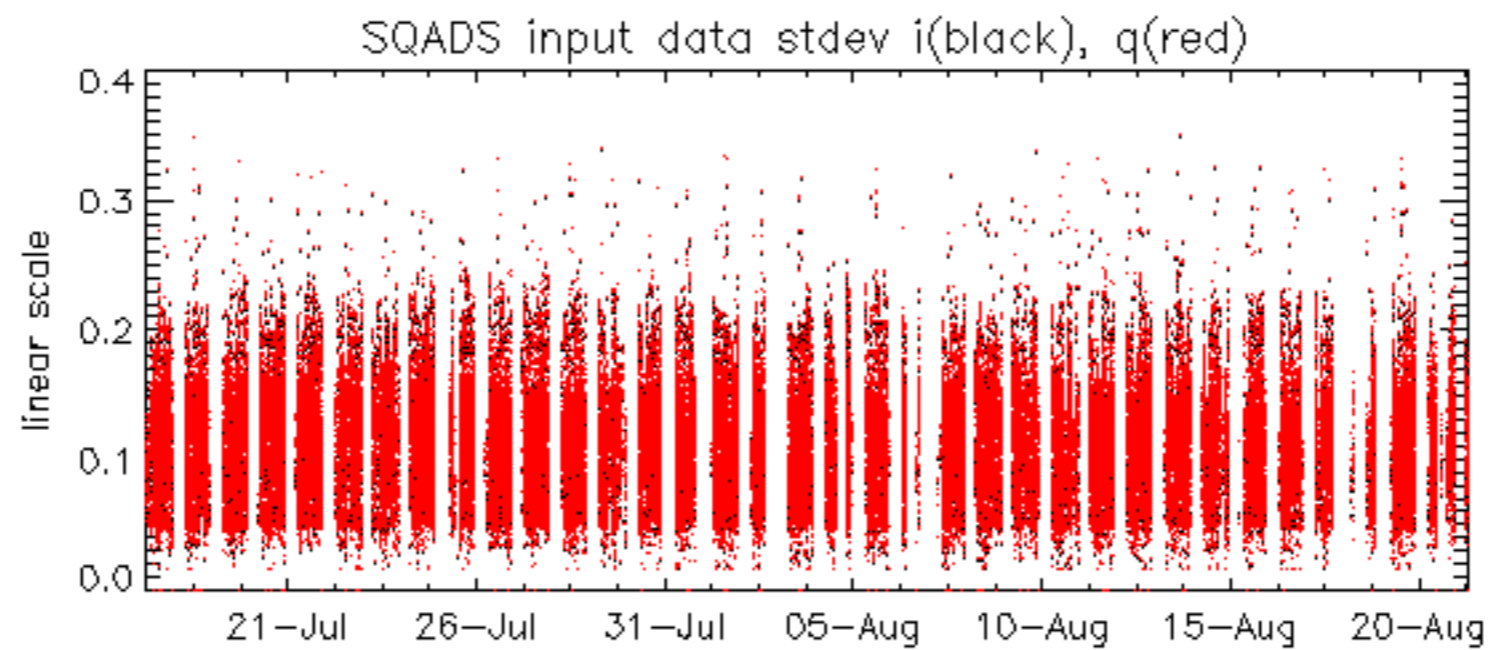
No anomalies detected.

Stable configuration for the phase of TR module 3 on Tile B3 as shown in the figure below.

No anomalies observed.







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