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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 MS product available on 06-Aug-2003.

The analysis results below are those from MS product acquired on 05-August-2003.

Polarisation	Start Time
V	20030805 200020
H	20030805 195840

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

Few WS data available on 06-Aug-2003 due to Kiruna station processing problems.

The missing data processing is now going on. Un update of this report will be made as soon as possible.

No anomalies observed on available data.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.80164	-22.5607	-8.10147
	stdev	0.00534973	0.0503365	0.00211451
10	mean	-6.89806	-19.3215	-8.10147
	stdev	0.0218164	0.0626167	0.00211451



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.86705	-22.5670	-8.10211
	stdev	0.0885356	0.0628117	0.00256383
10	mean	-6.97981	-19.3251	-8.10211
	stdev	0.421198	0.0615812	0.00256383



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	0.000479074
	stdev	3.03023e-07
MEAN Q	mean	0.000310722
	stdev	3.16528e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115387
	stdev	0.00161772
STDEV Q	mean	0.115506
	stdev	0.00164931



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

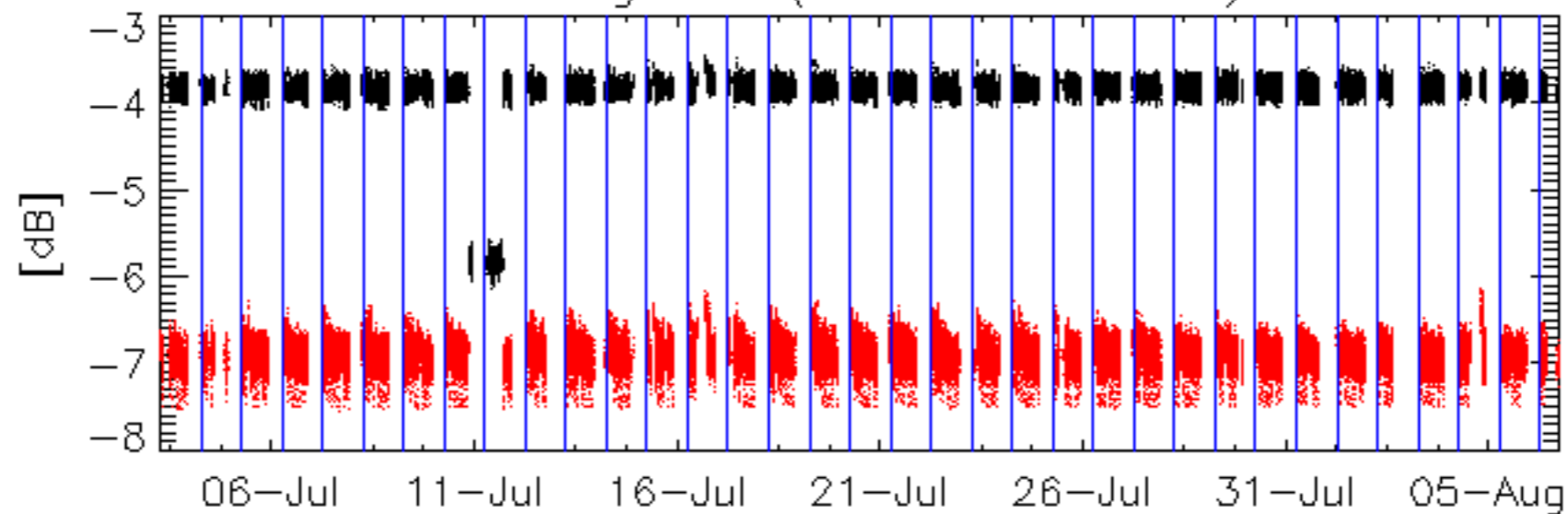
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

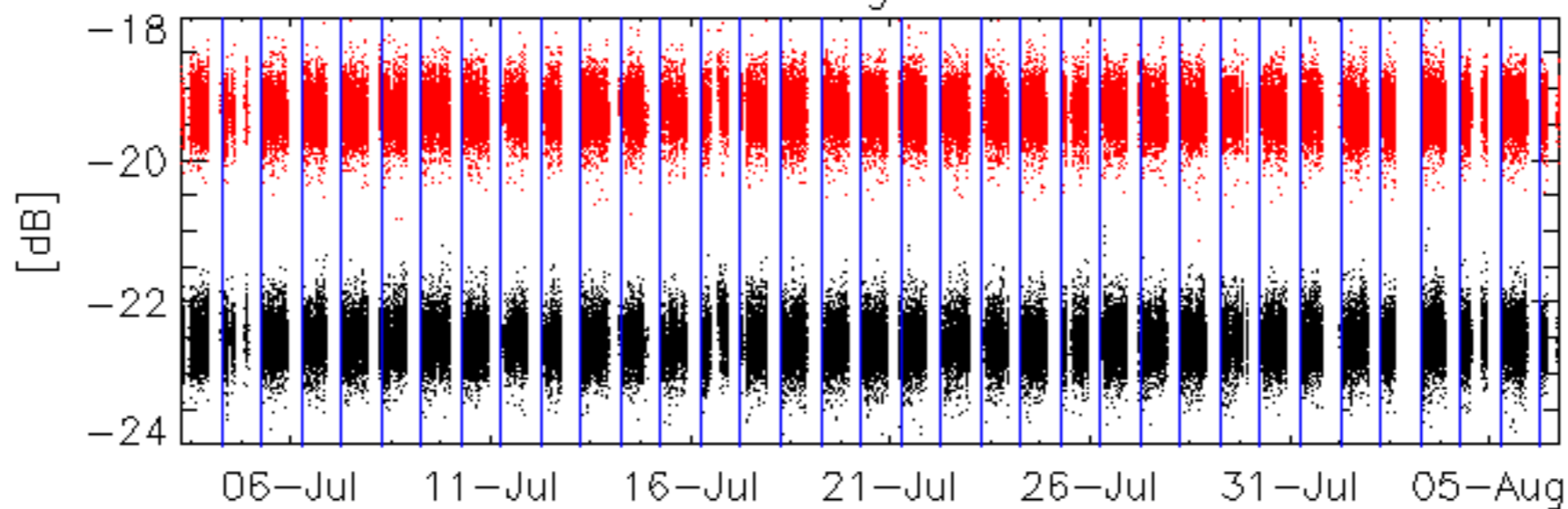
Evolution Doppler error versus ANX



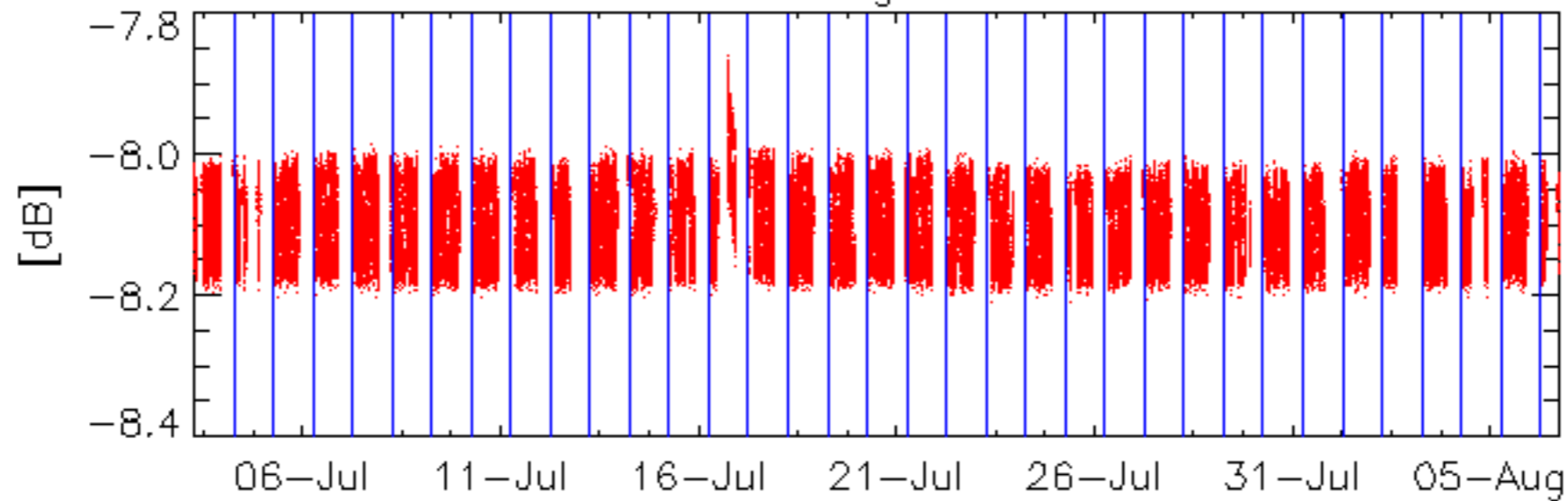
Average P1 (row 3 & row 10)



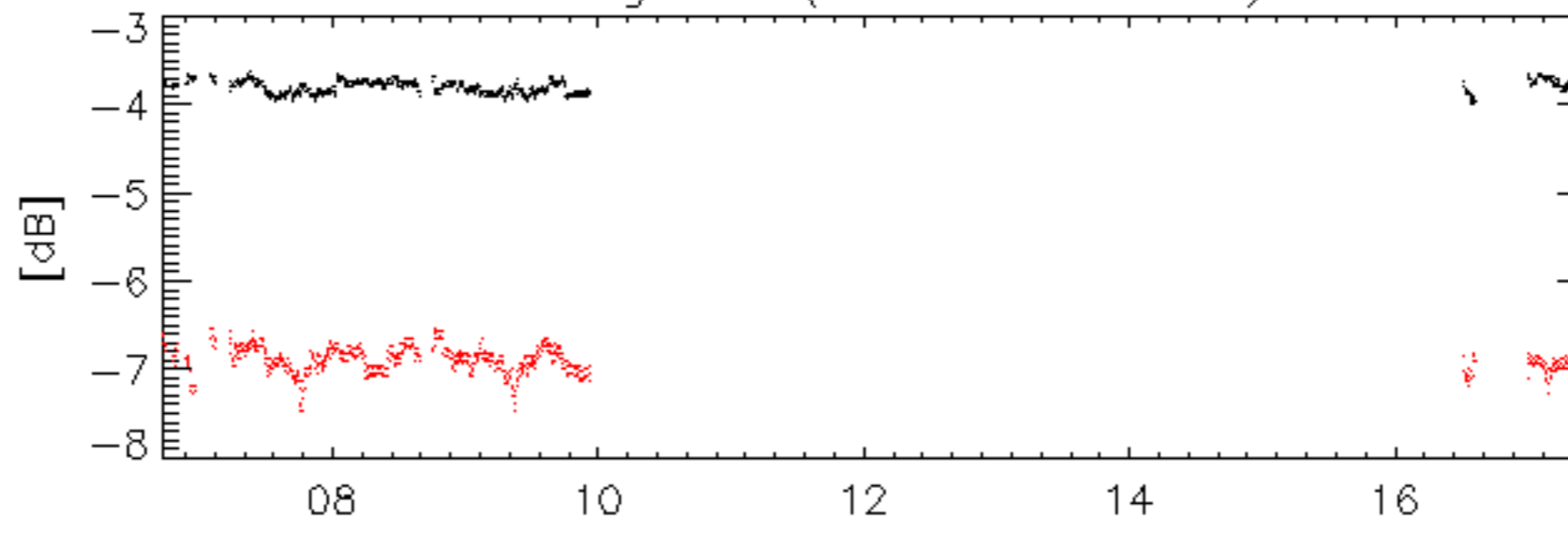
Average P2



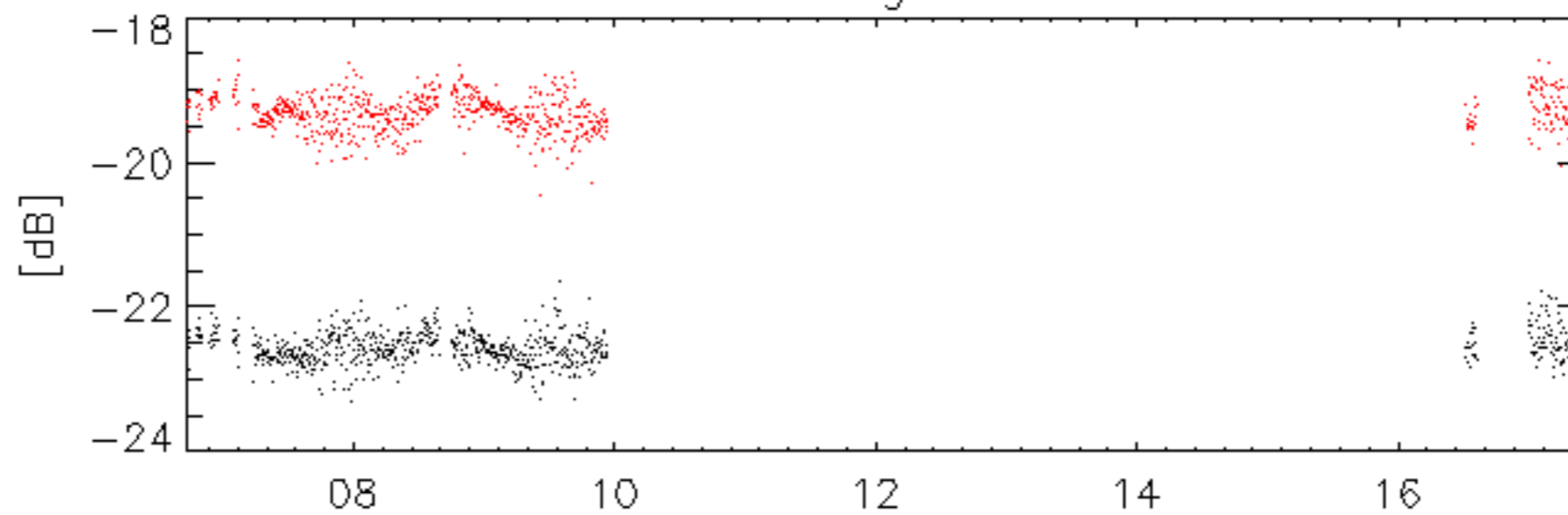
Average P3



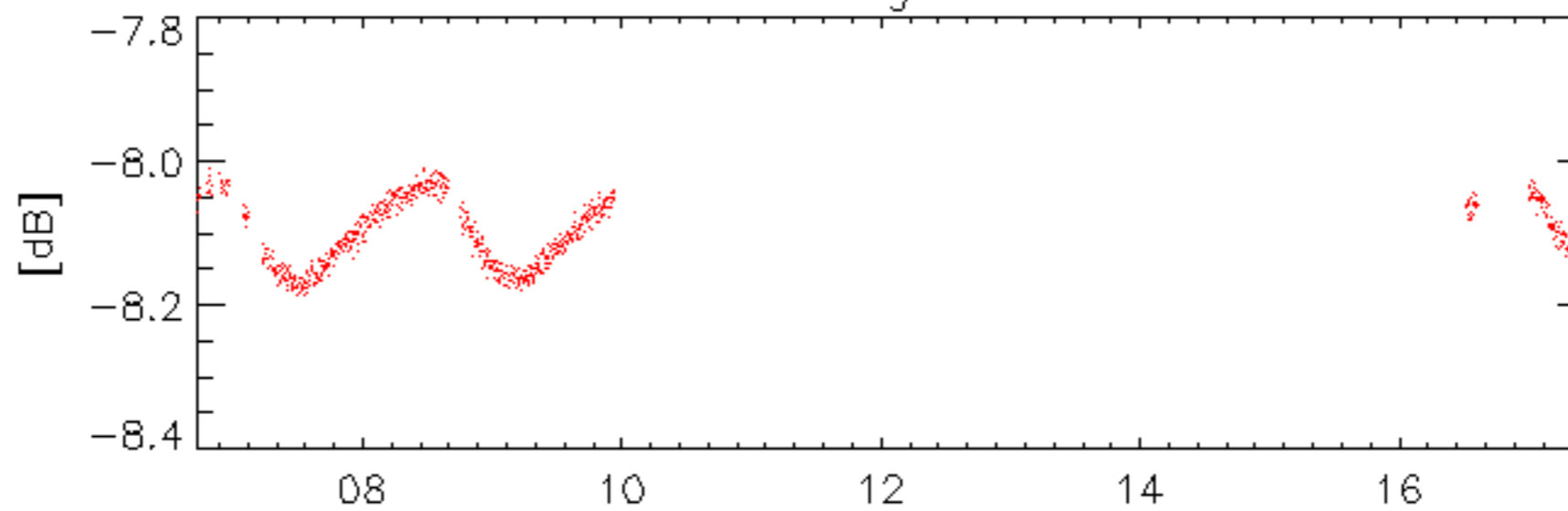
Average P1 (row 3 & row 10)



06-Aug
Average P2



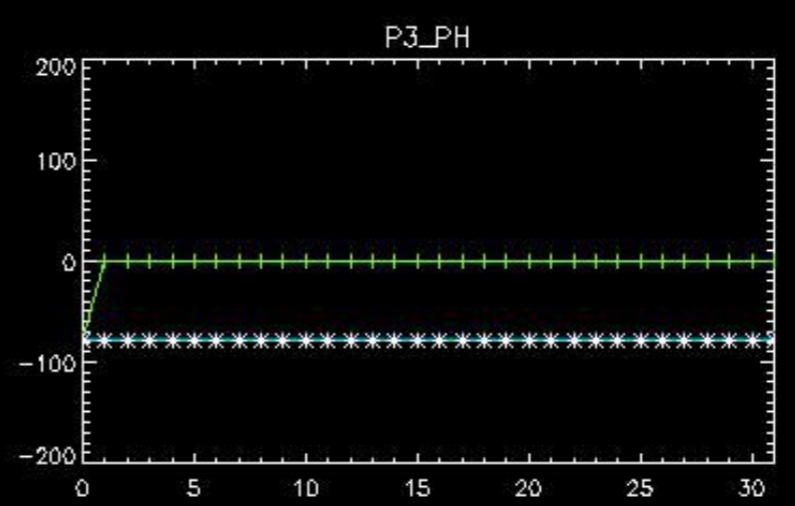
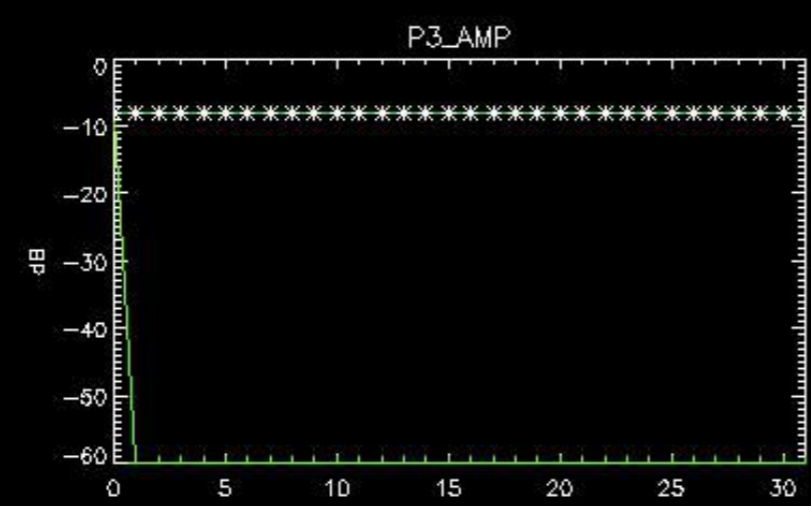
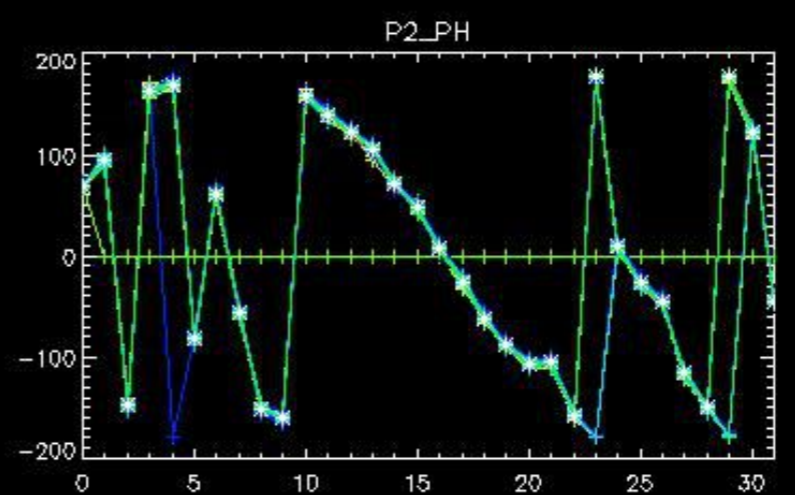
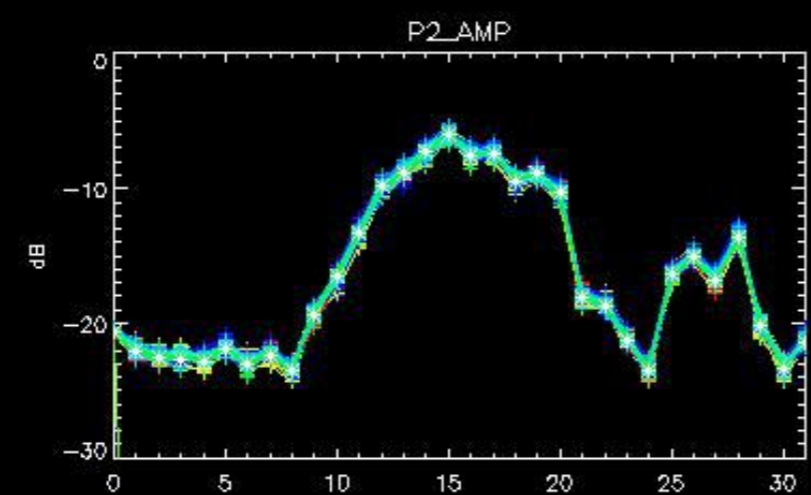
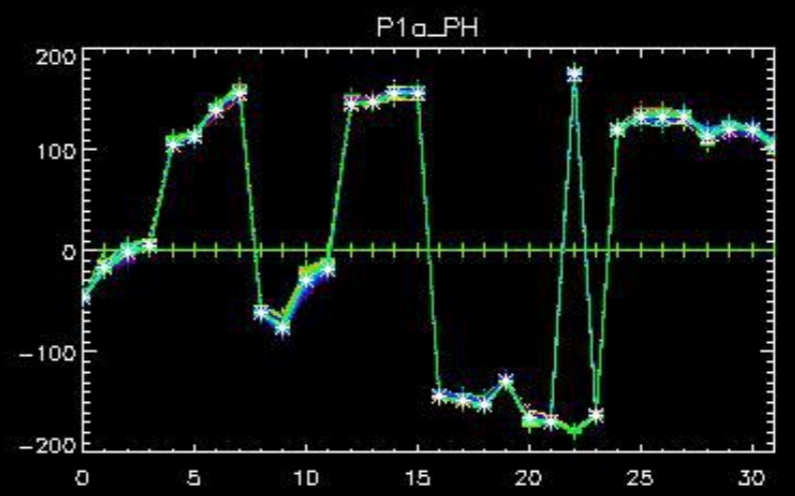
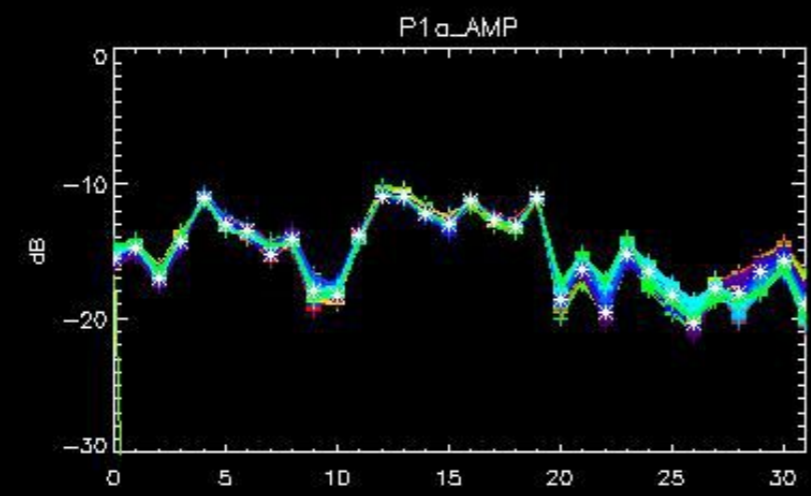
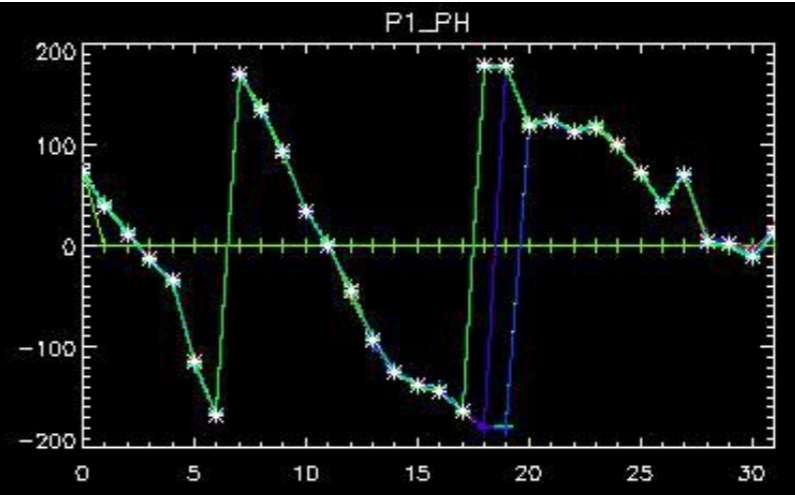
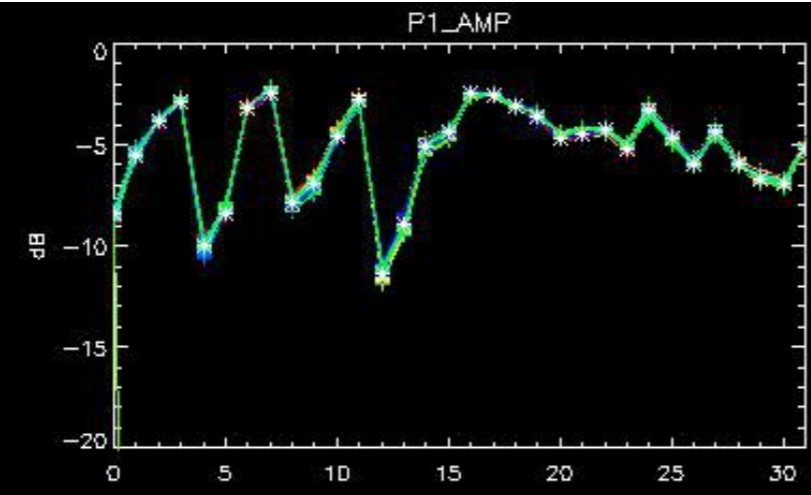
06-Aug
Average P3



06-Aug

No anomalies observed on available browse products

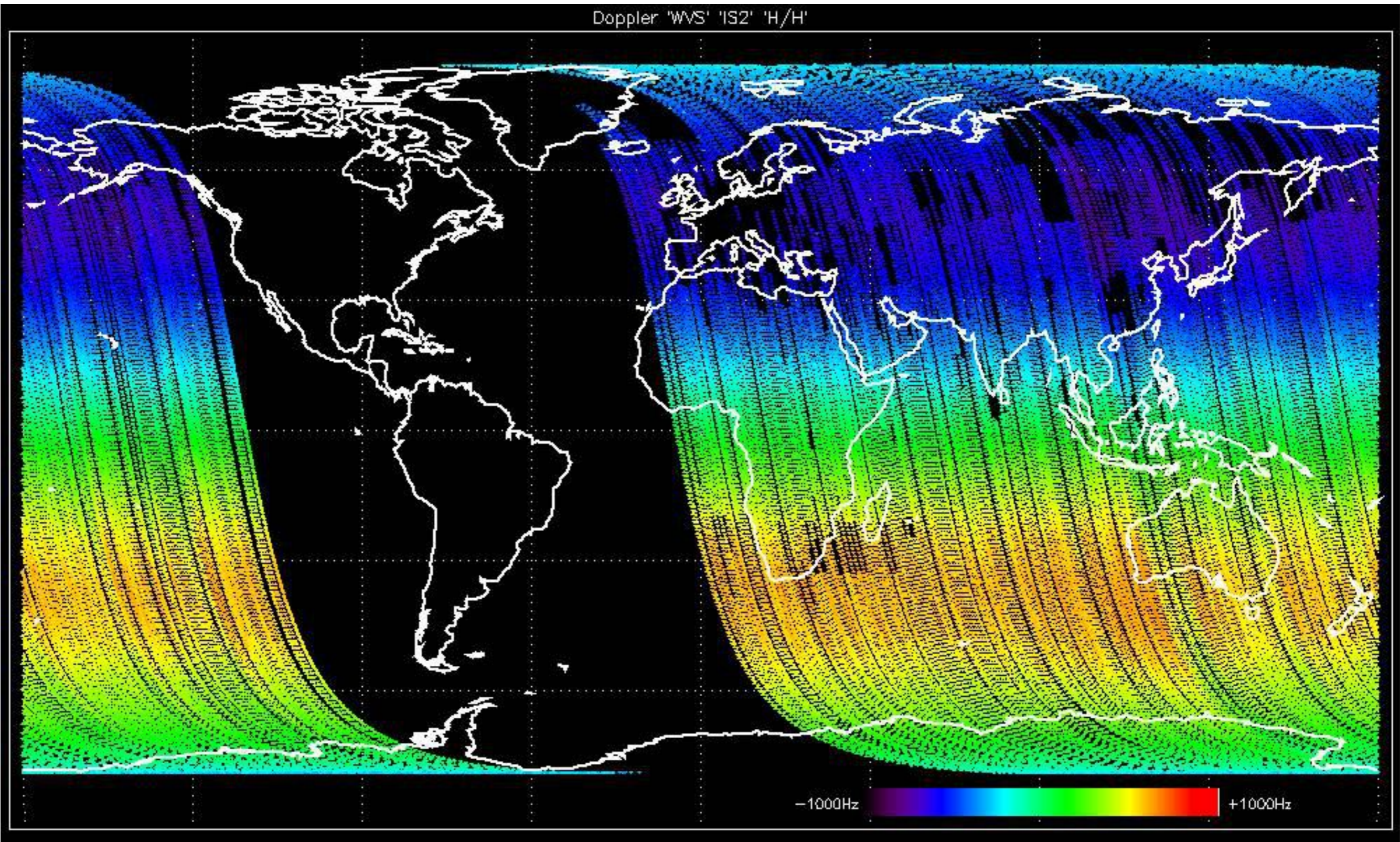
Few WS data available on 06-Aug-2003 due to Kiruna station processing problems.
The missing data processing is now going on. An update of this report will be made as soon as possible.
No anomalies observed on available data.



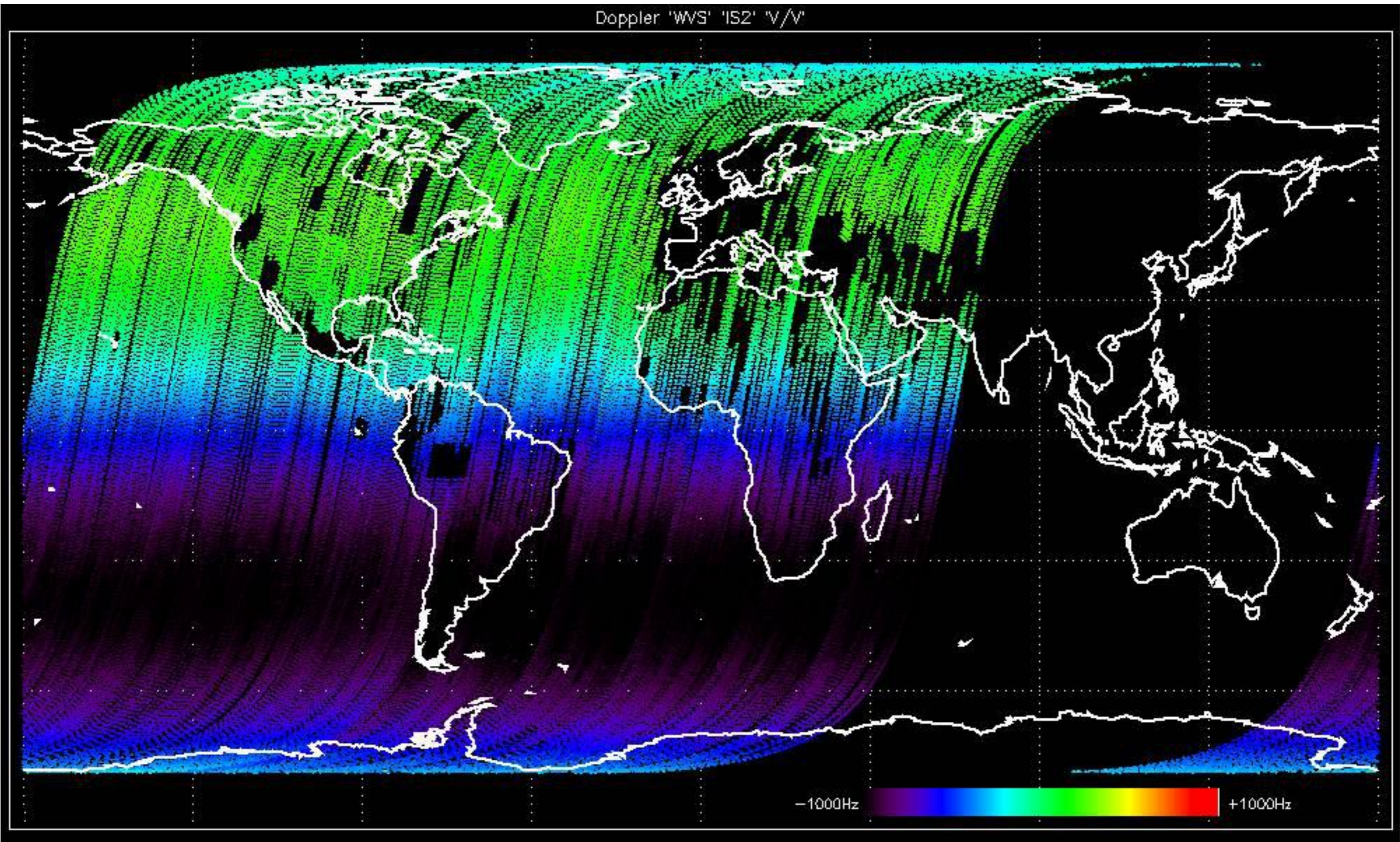
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

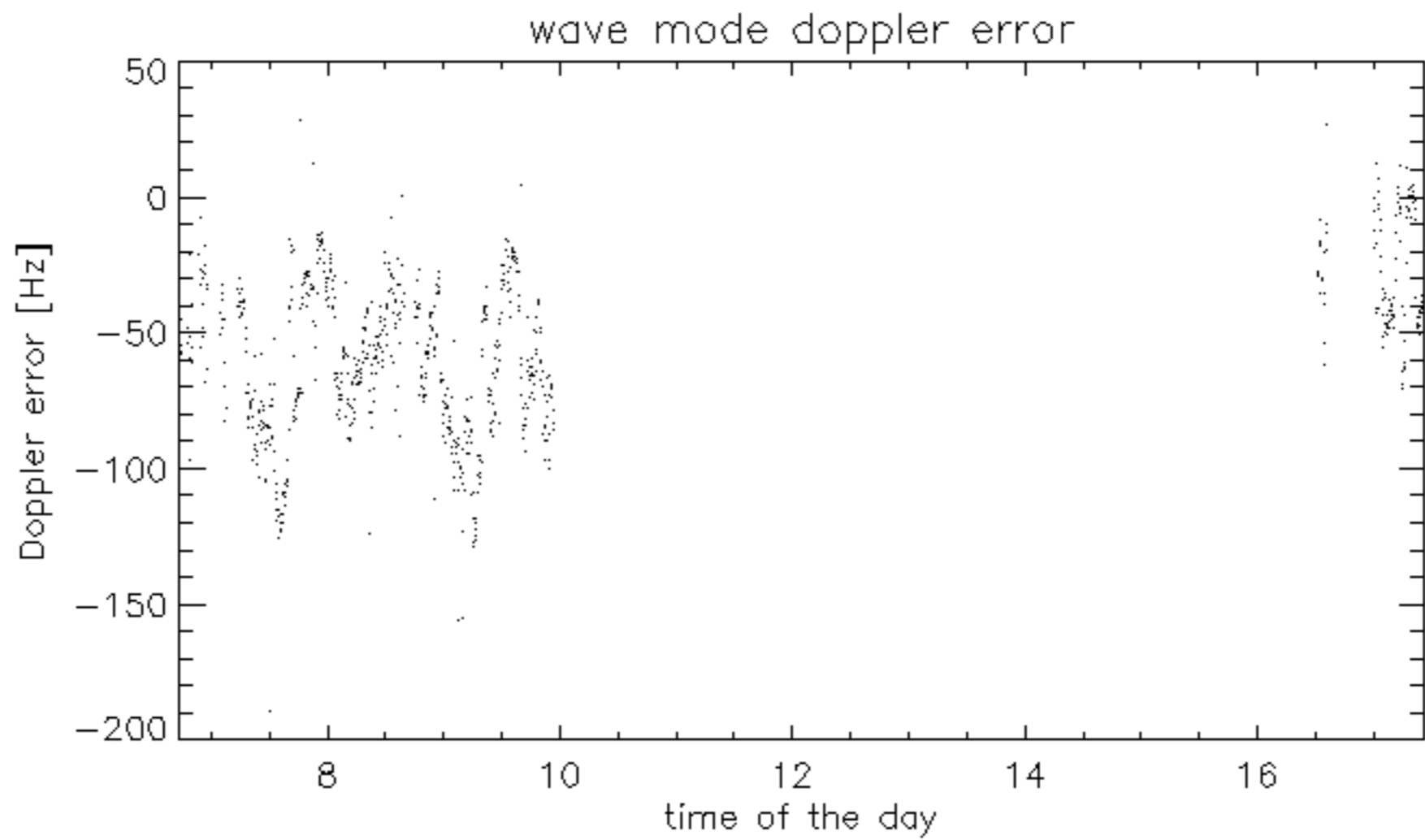
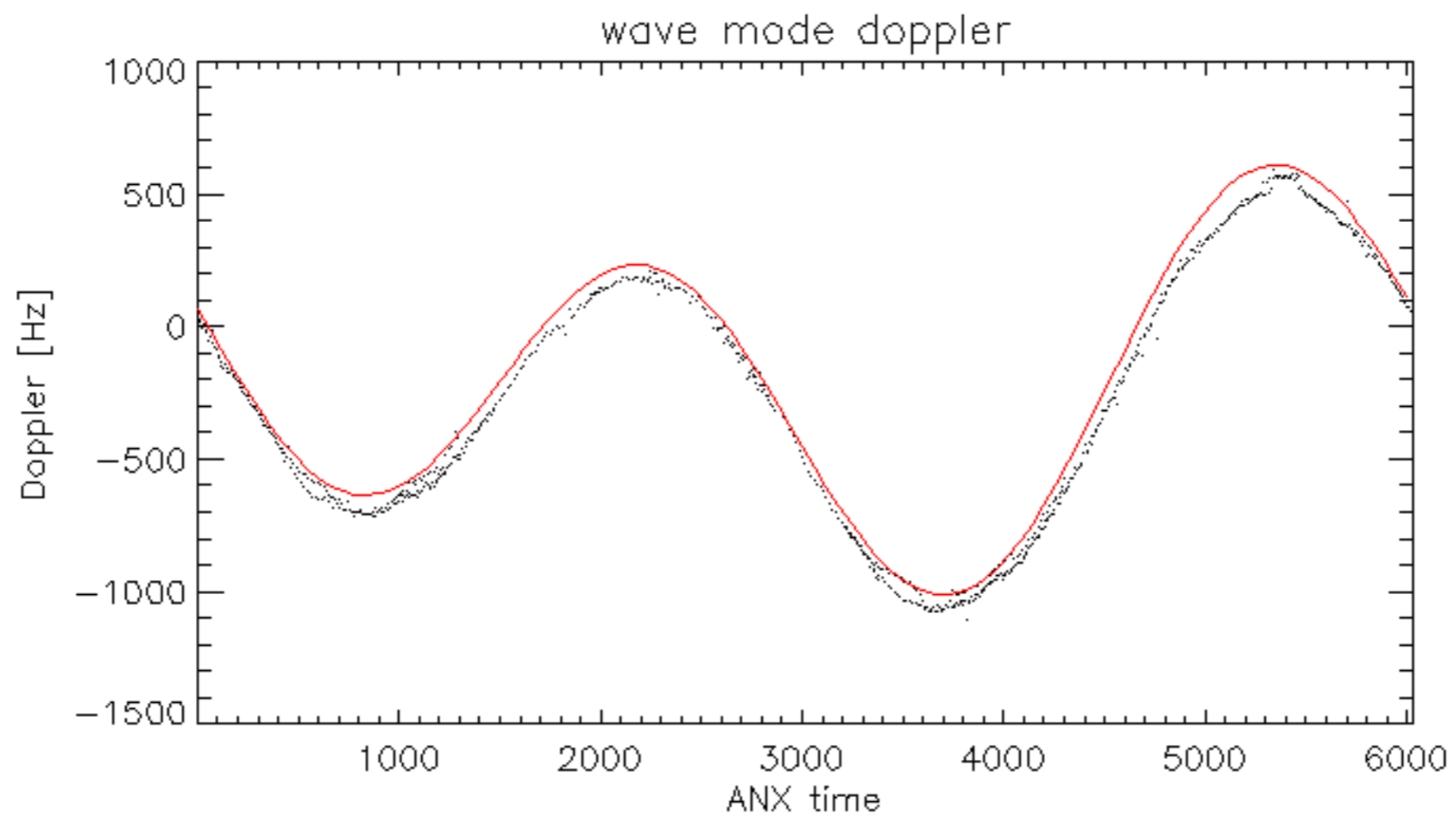
No anomalies observed in Doppler evolution.
Doppler analysis performed over the last 60 days

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

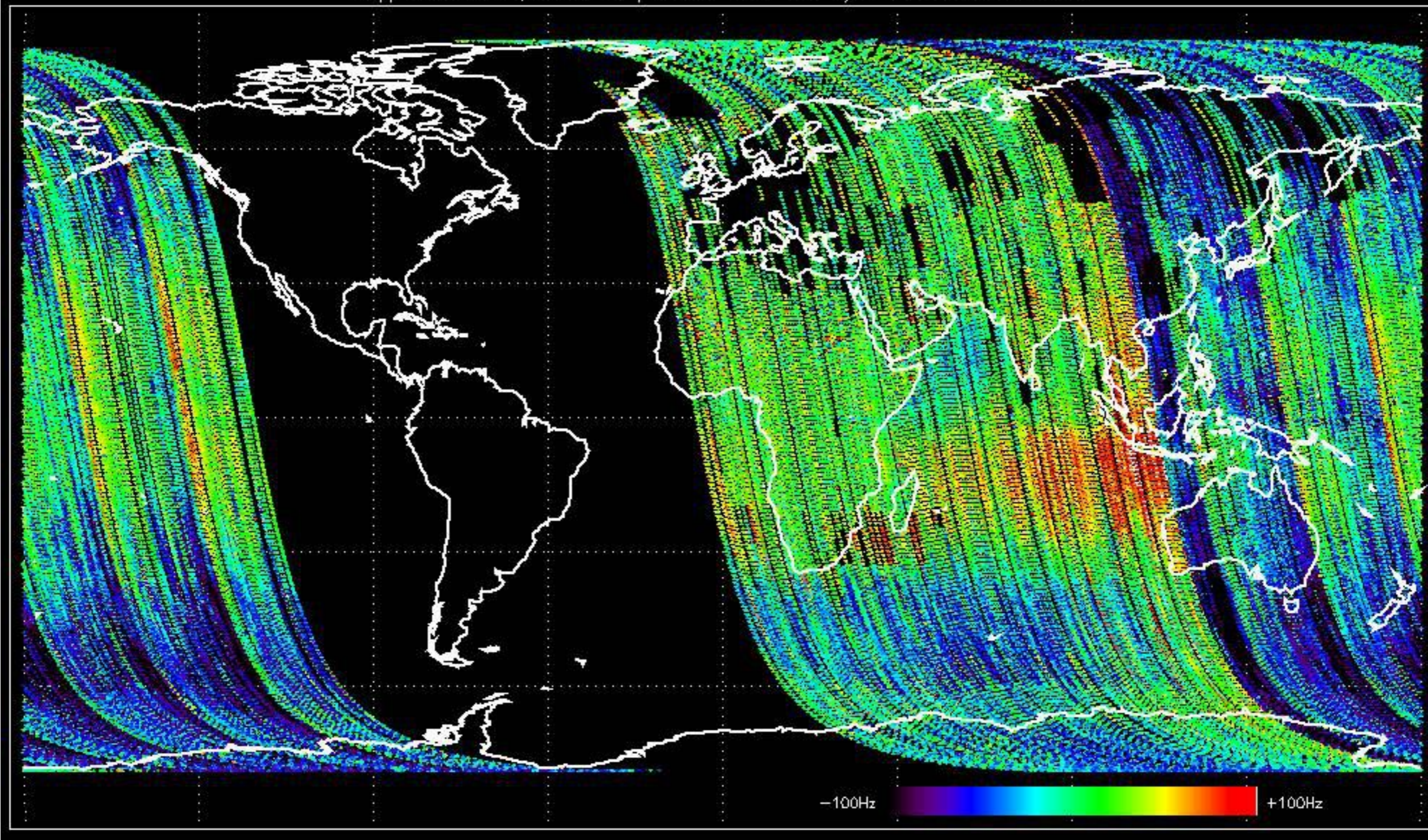


Doppler 'WVS' 'IS2' 'V/V'

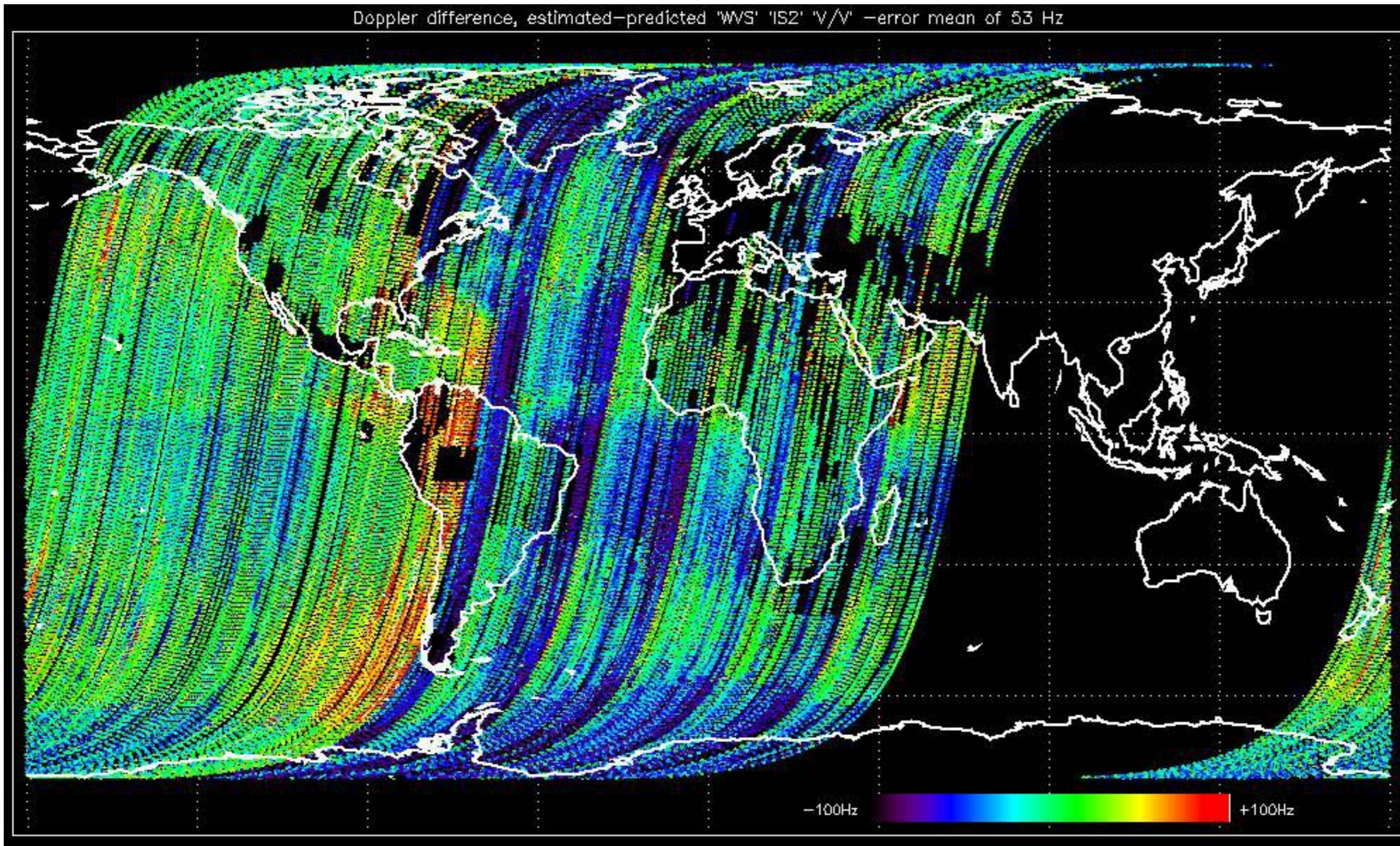




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



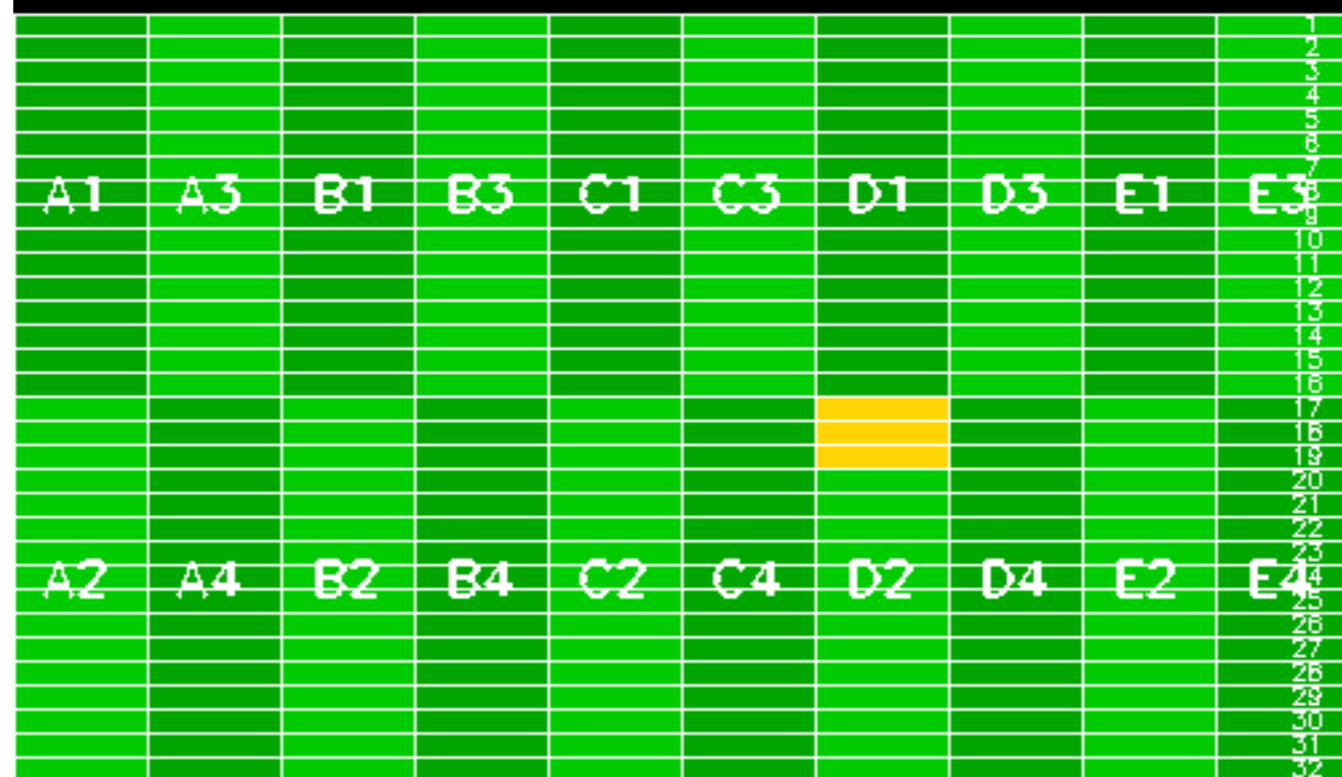
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of 53 Hz

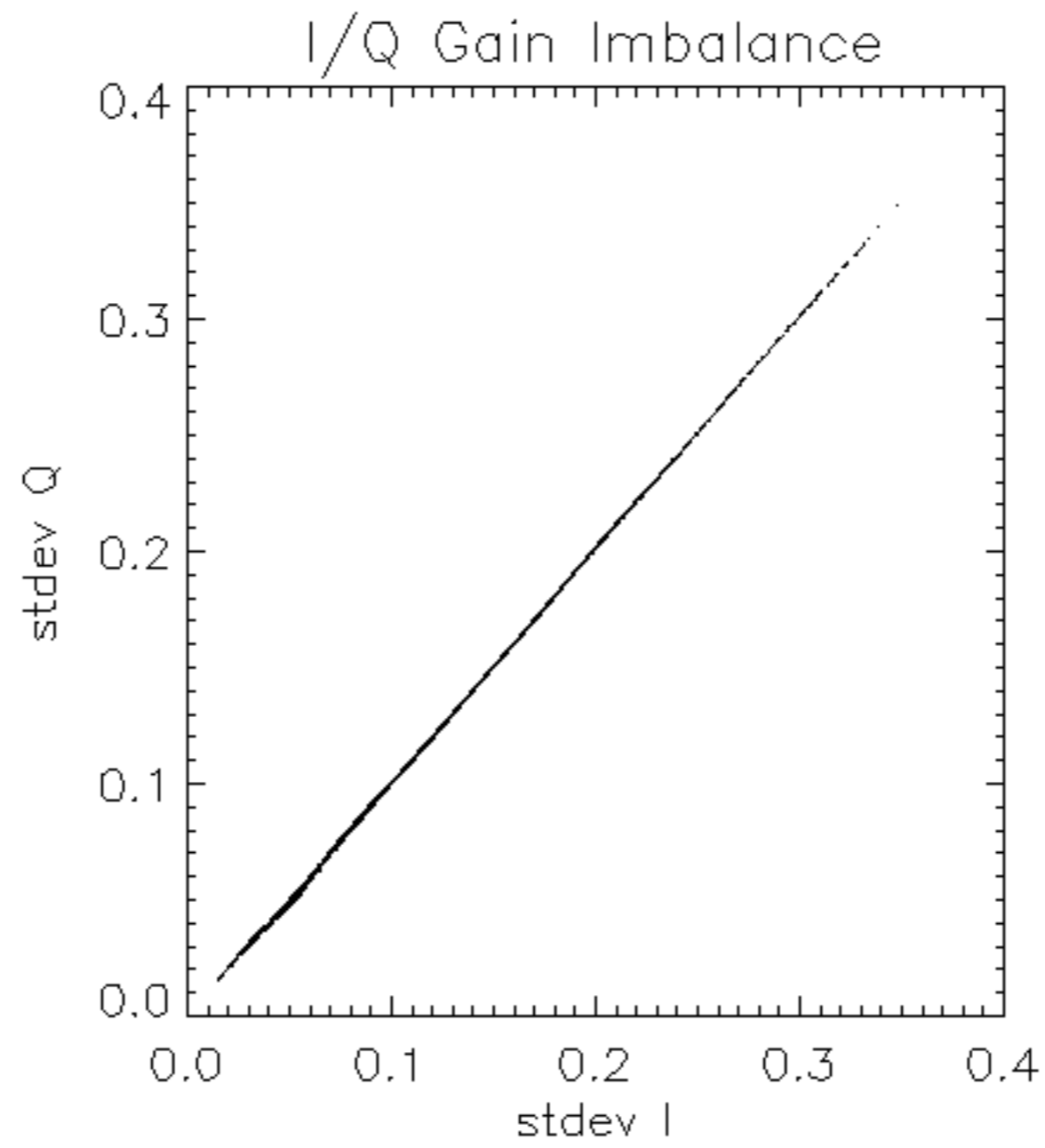


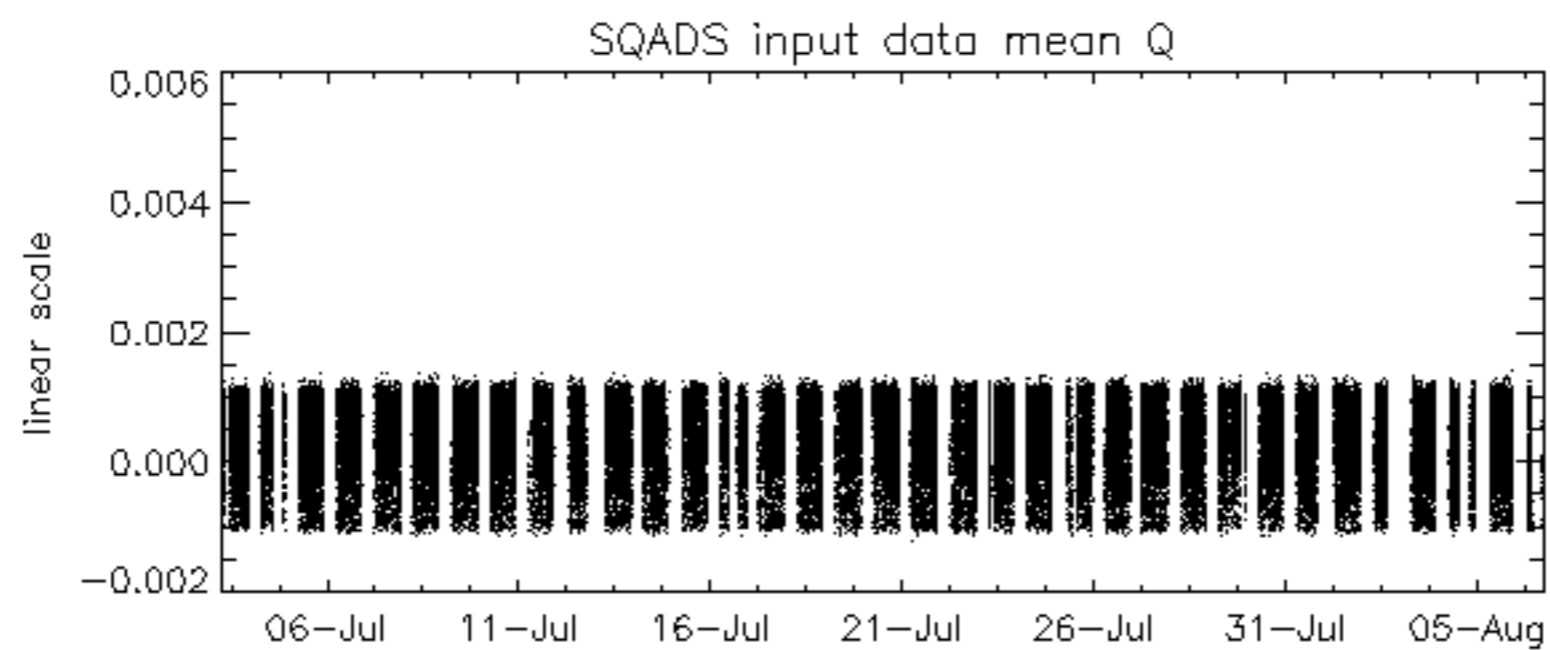
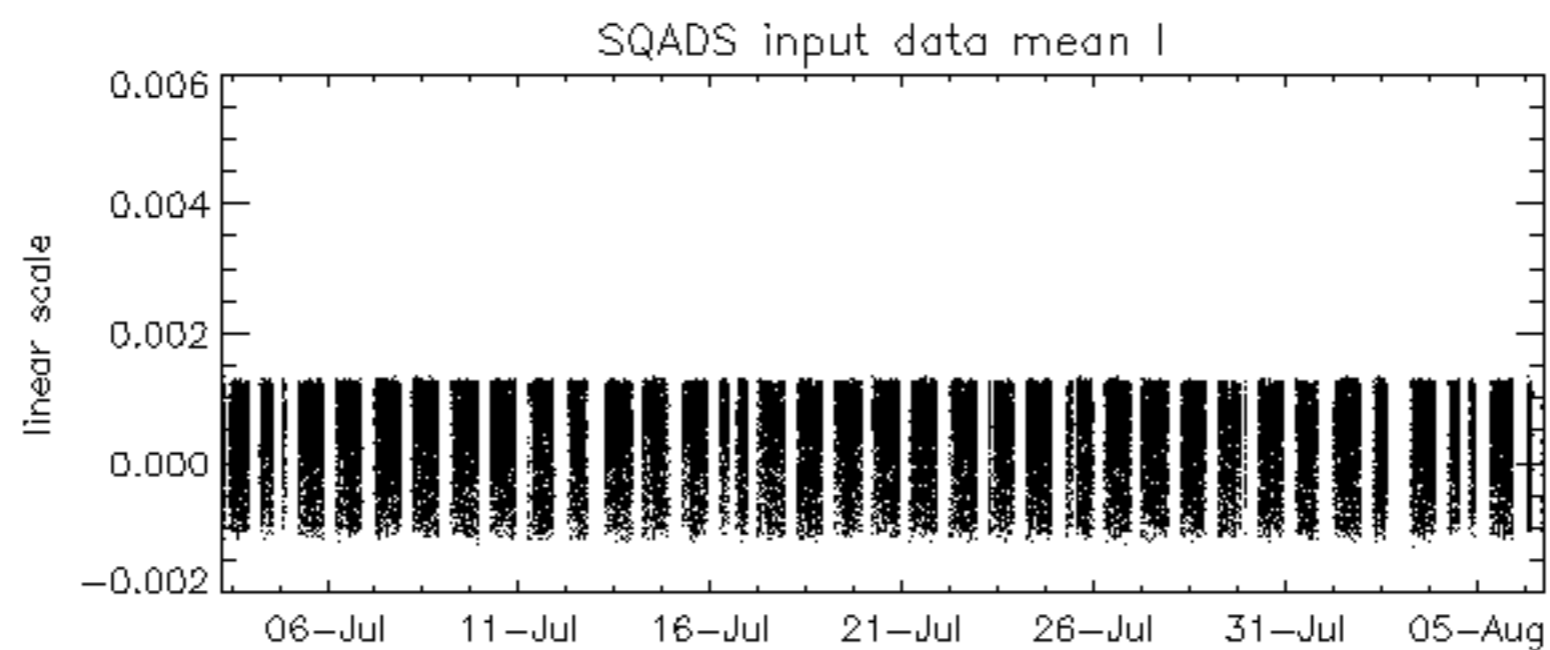
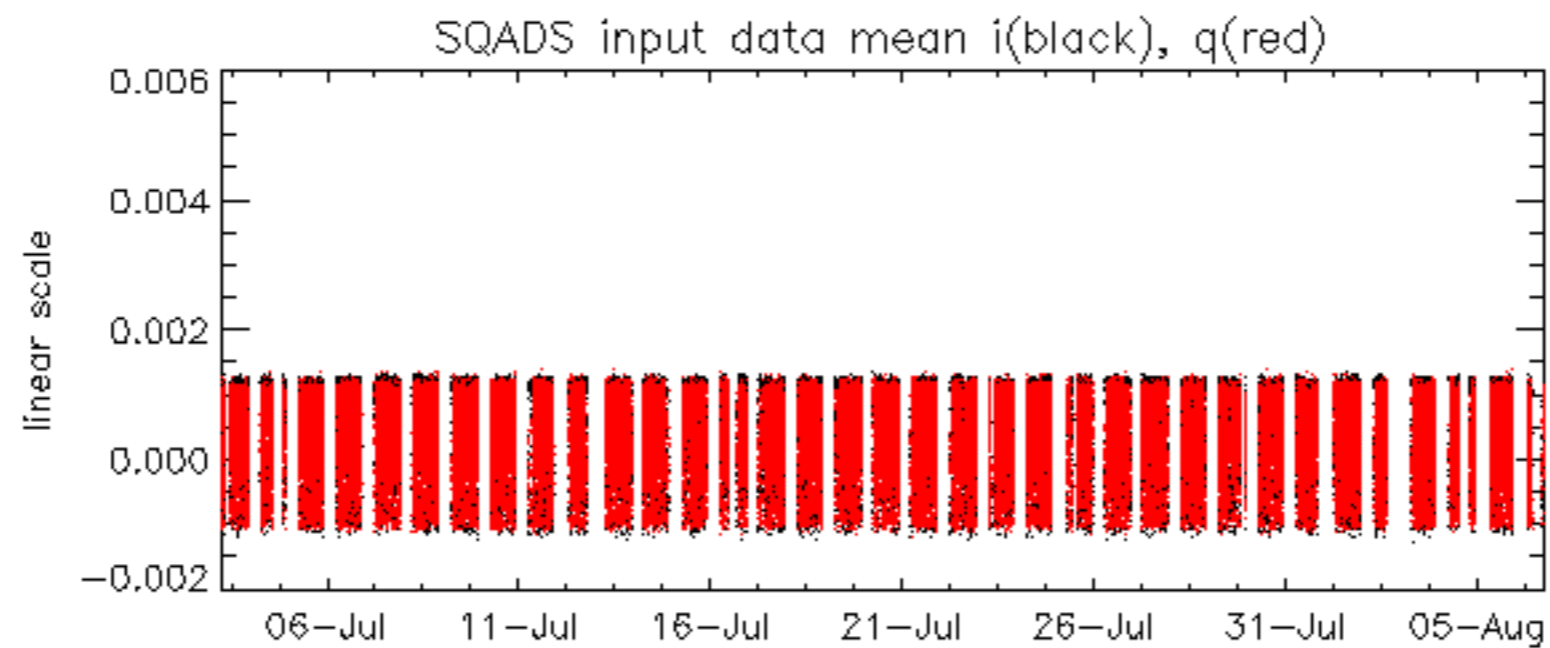
No MS product available on 06-Aug-2003.
The analysis results below are those from MS product acquired on 05-August-2003.

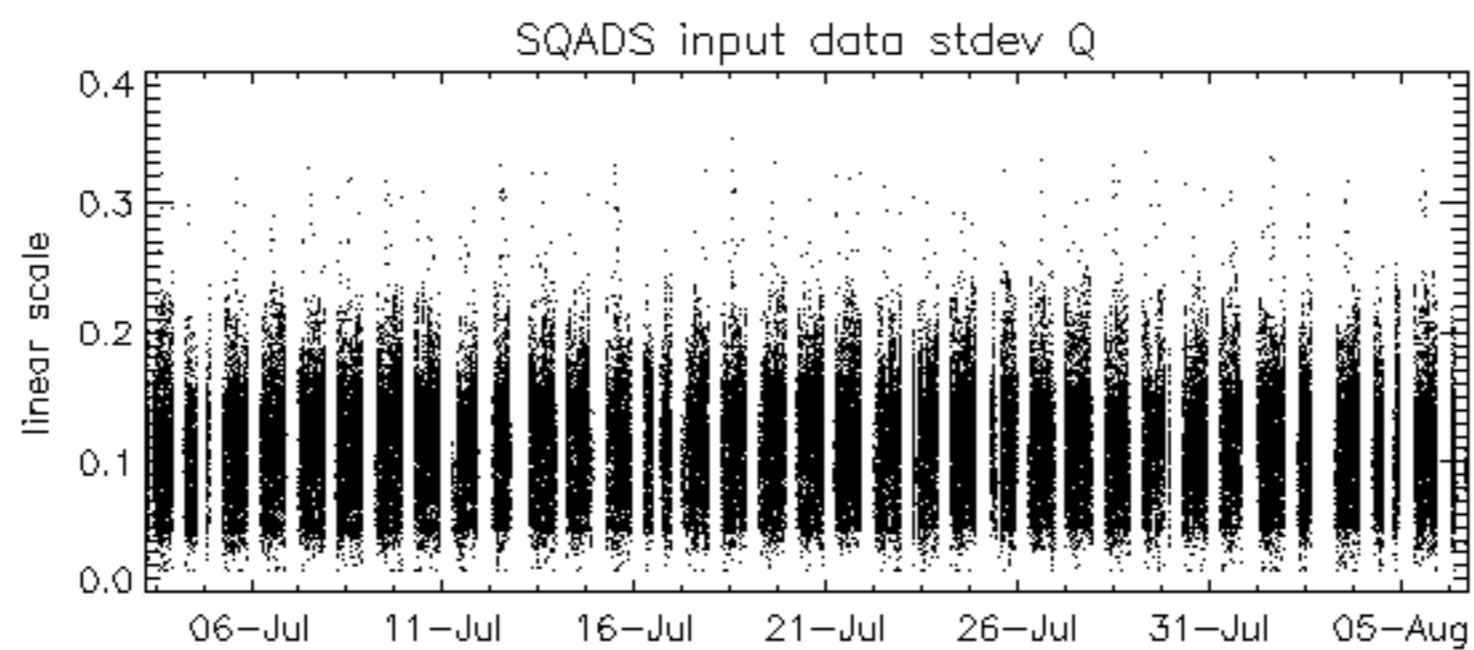
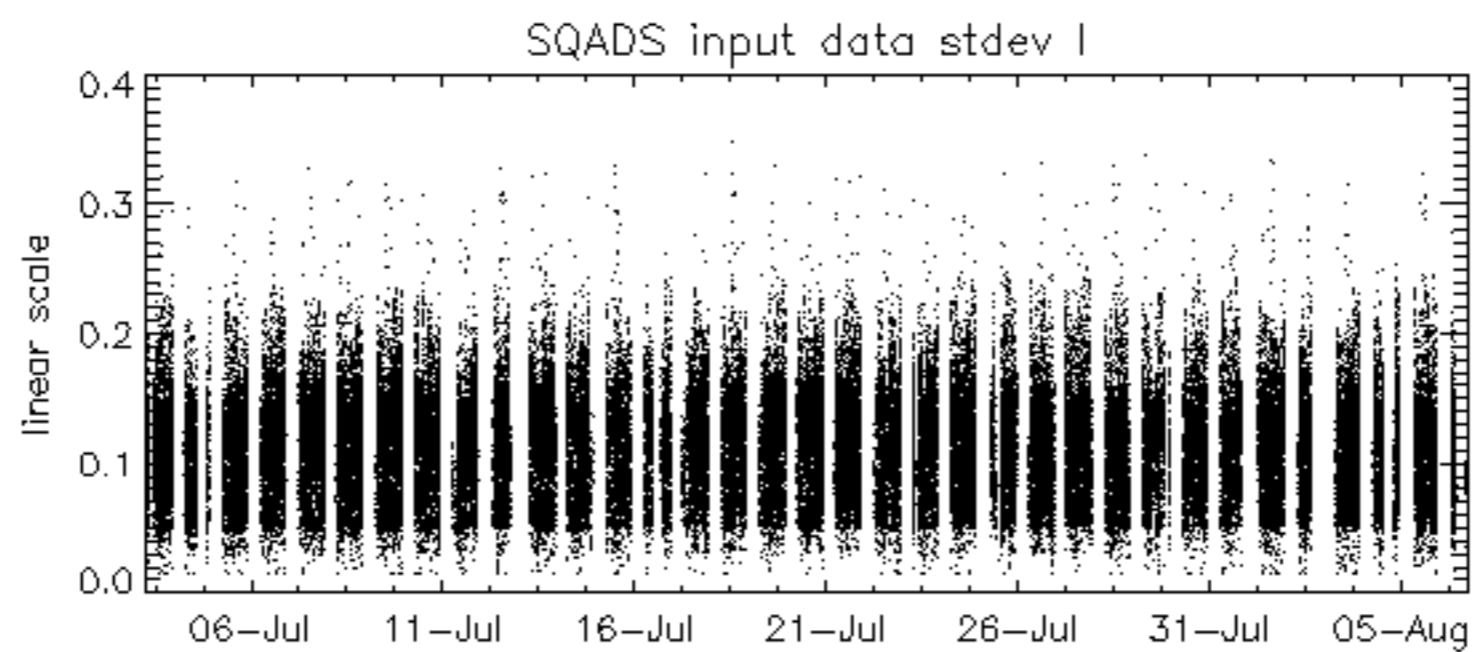
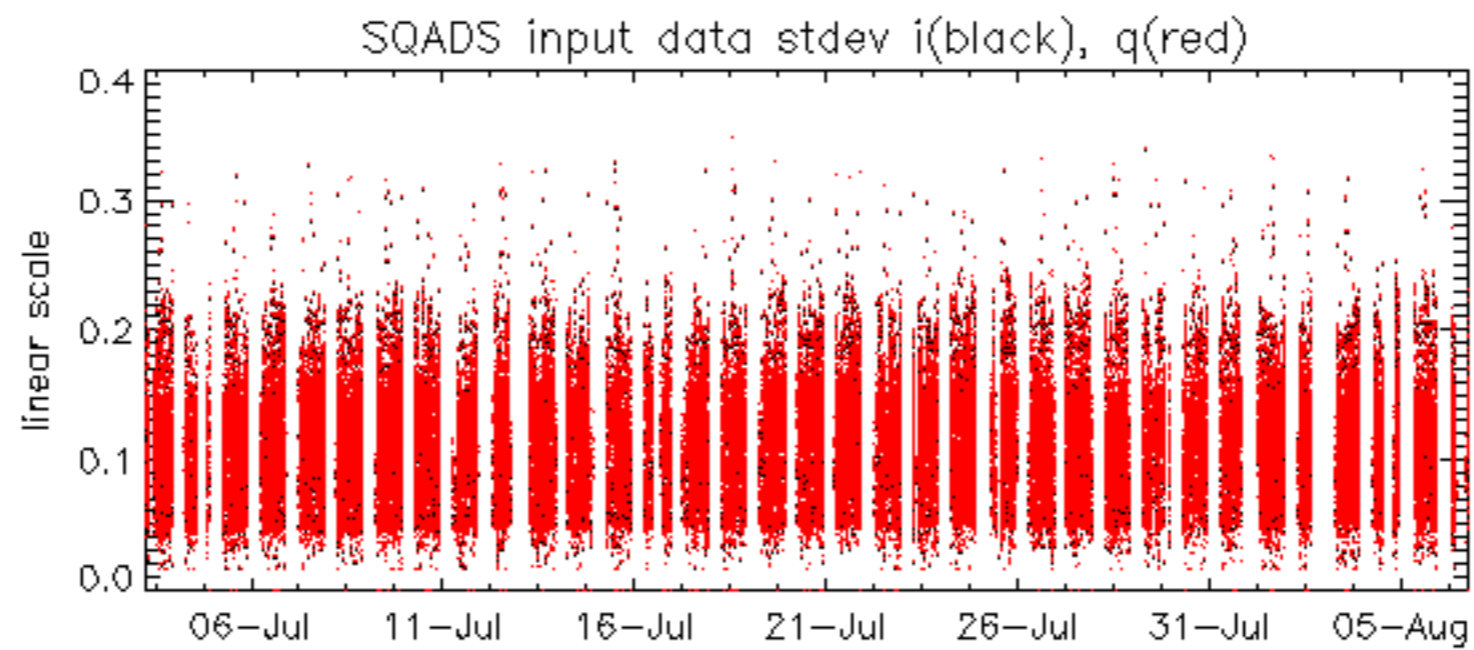
No anomalies observed.

Reference: 2003-06-12 14:08:52 H RxGain
 Test : 2003-08-05 19:58:40 H









No unavailabilities during the reported period.