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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 EOLI catalogue.

2.3 - Data Analysis

Analysis performed on data available since 14-Jul-2003 05:23:29 until 15-Jul-2003 08:03:15.

- 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 (H and V polarization):

- ASA_MS__0PNPDK20030714_195000_000000152018_00099_07167_0014.N1
- ASA_MS__0PNPDK20030714_195140_000000152018_00099_07167_0015.N1

No anomalies observed.

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



Polarisation	Start Time
V	20030714 195140
H	20030714 195000

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
8	mean	-2.44621	-22.5177	-8.10560
	stdev	0.0131683	0.0694103	0.00252925
24	mean	-5.13121	-21.2160	-8.10560
	stdev	0.0124801	0.0573189	0.00252925



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
8	mean	-2.44720	-22.5325	-8.10607
	stdev	0.0130989	0.0683409	0.00298810
24	mean	-5.15670	-21.2031	-8.10607
	stdev	0.0133511	0.0572054	0.00298810



4.3 - cal pulses monitoring (all row)



5 - RAW data statistics

No anomalies observed.

Nominal value of I and Q level0 statistics.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000468611
	stdev	3.02976e-07
MEAN Q	mean	0.000304940

stdev	3.12695e-07
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5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.113164
	stdev	0.00159135
STDEV Q	mean	0.113259
	stdev	0.00162217



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed for 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

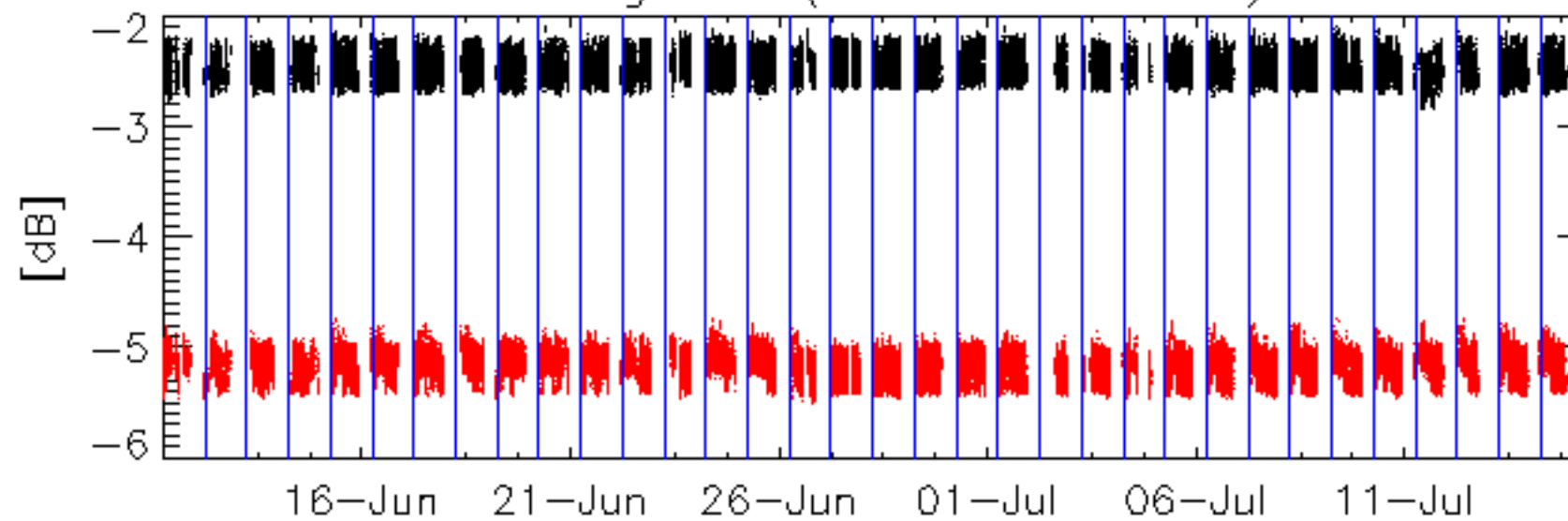
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

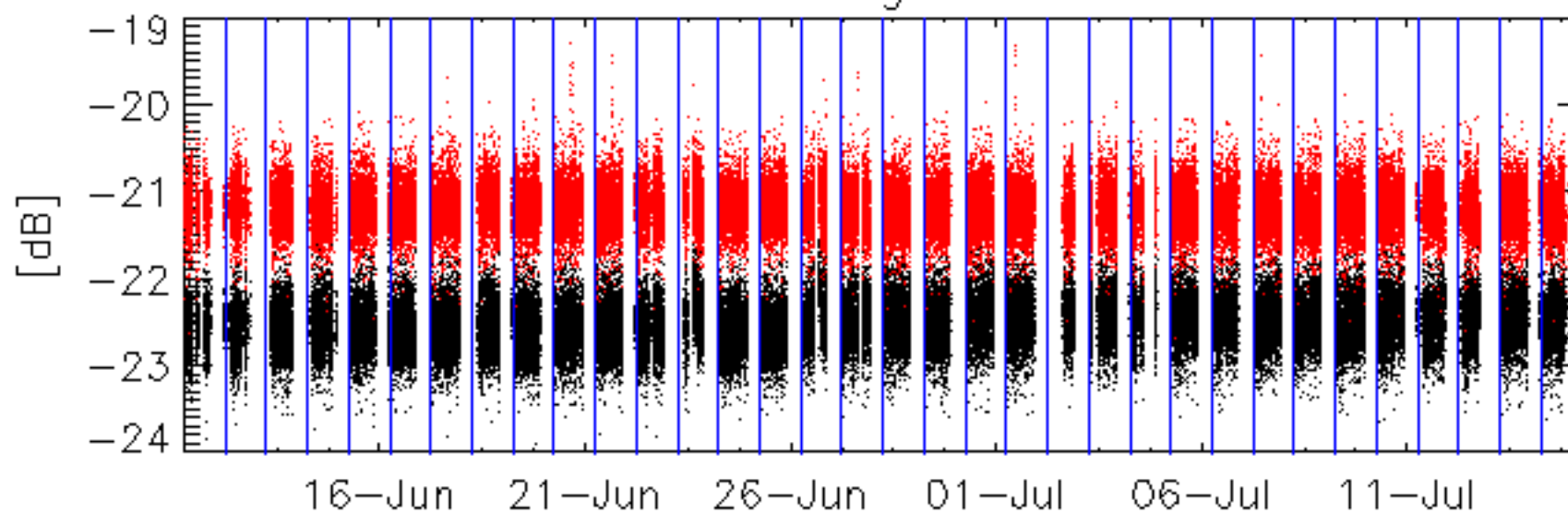
Evolution Doppler error versus ANX



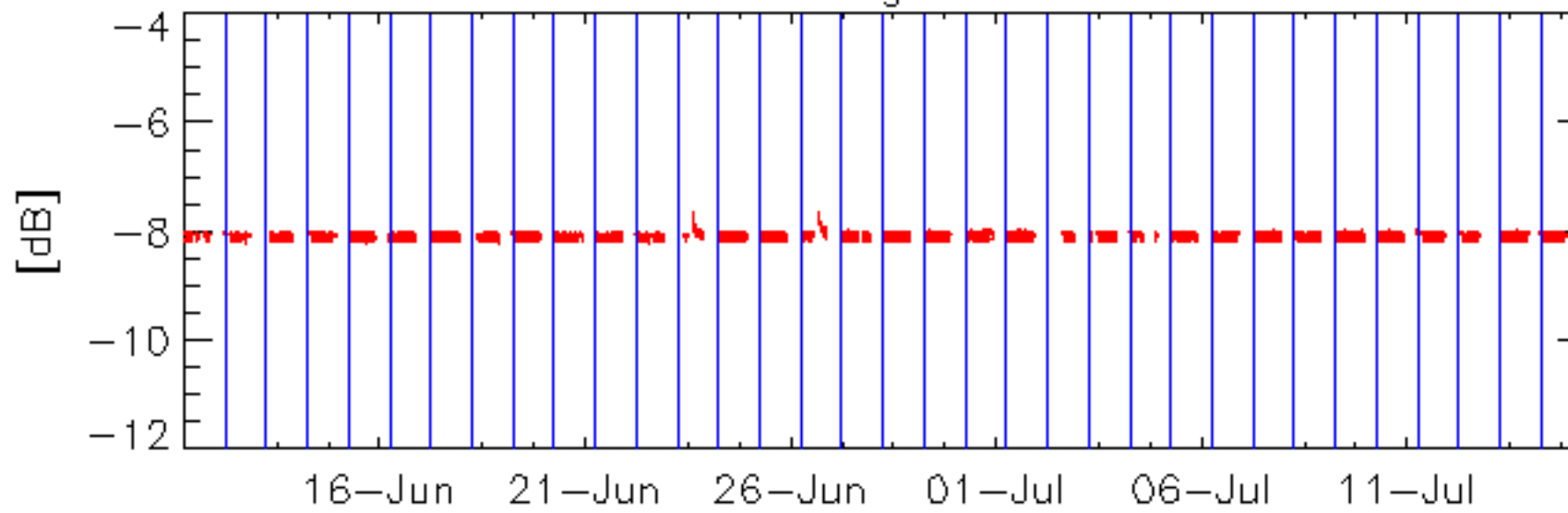
Average P1 (row 8 & row 24)

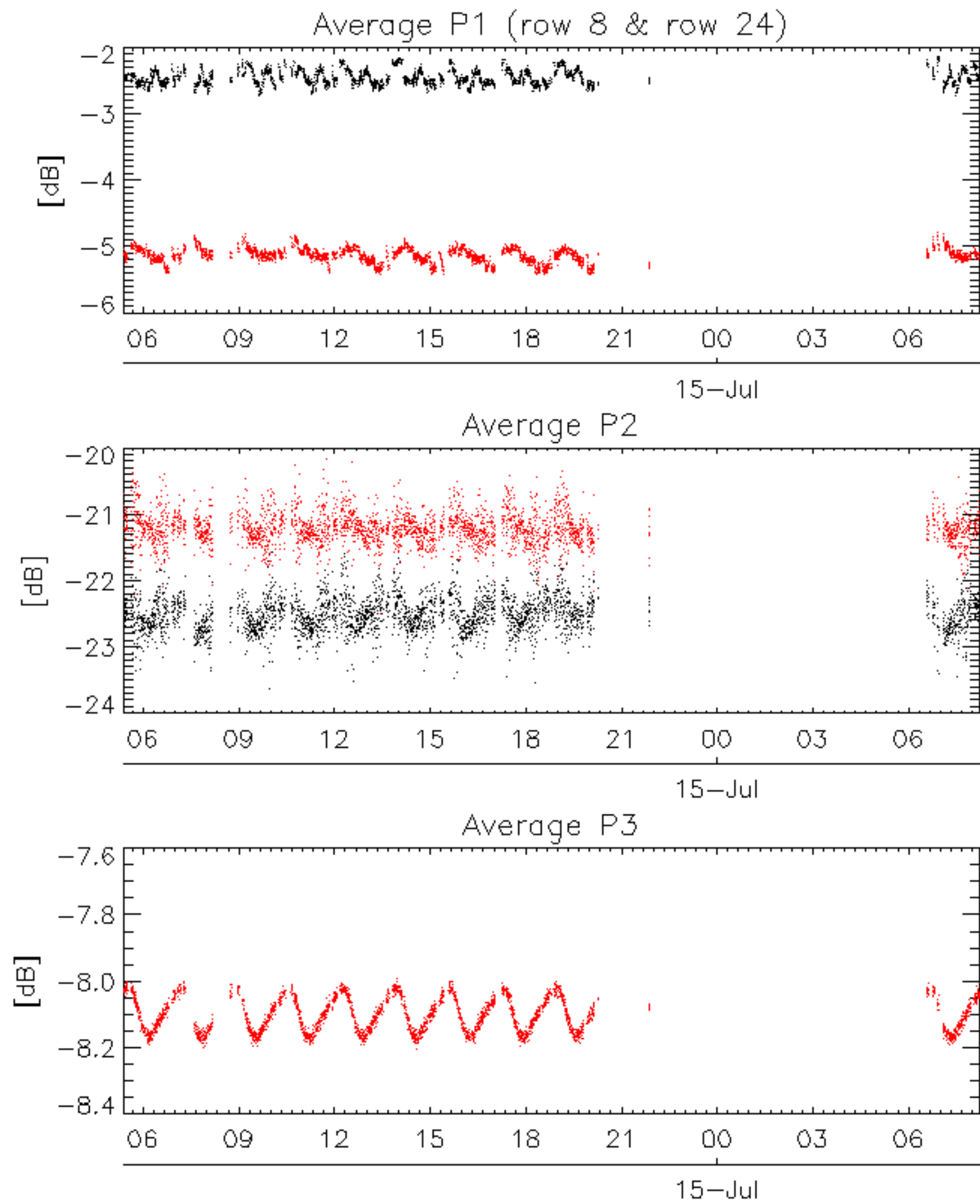


Average P2



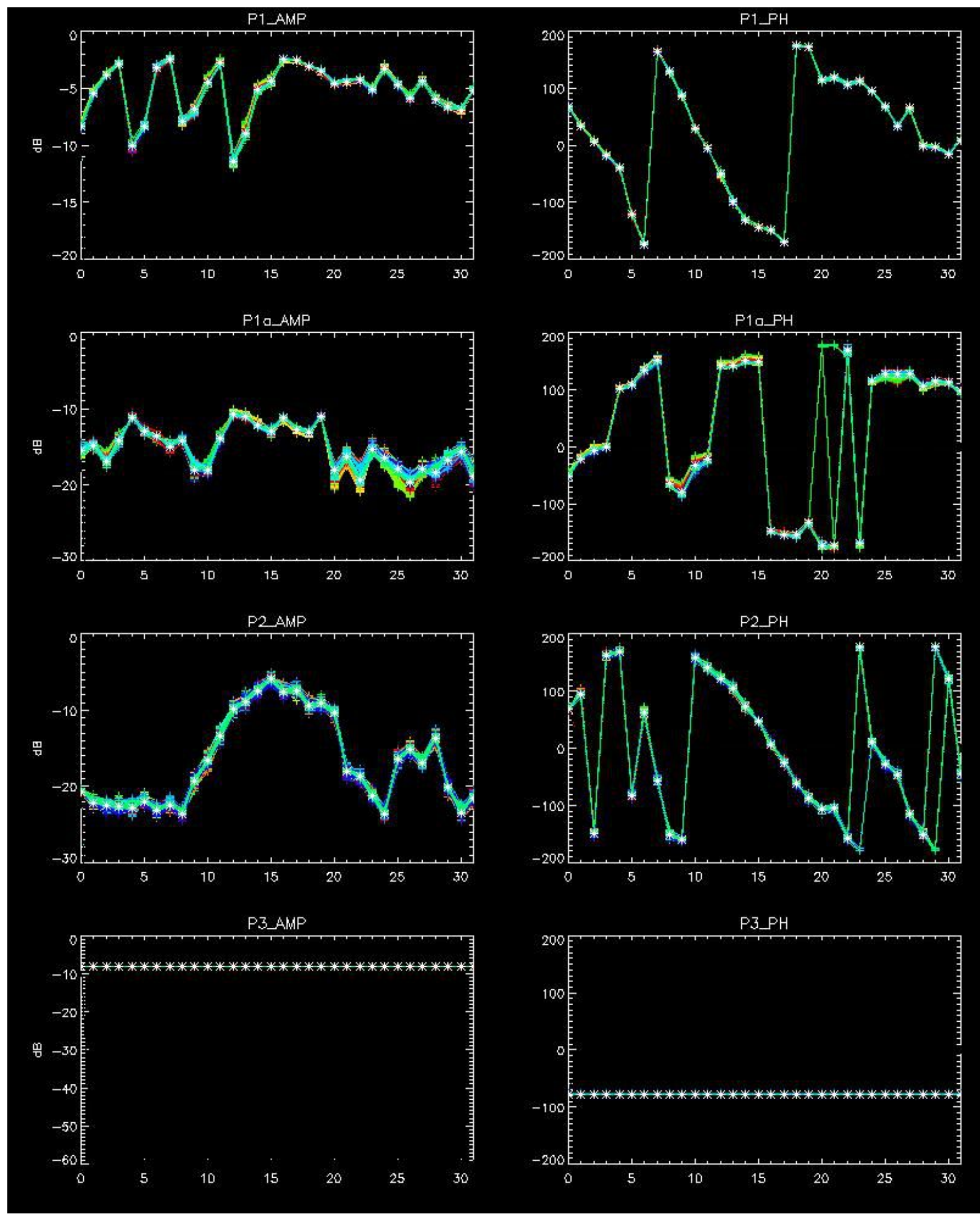
Average P3





No anomalies observed on EOLI catalogue.

No anomalies observed.



Analysis performed on data available since 14-Jul-2003 05:23:29 until 15-Jul-2003 08:03:15.

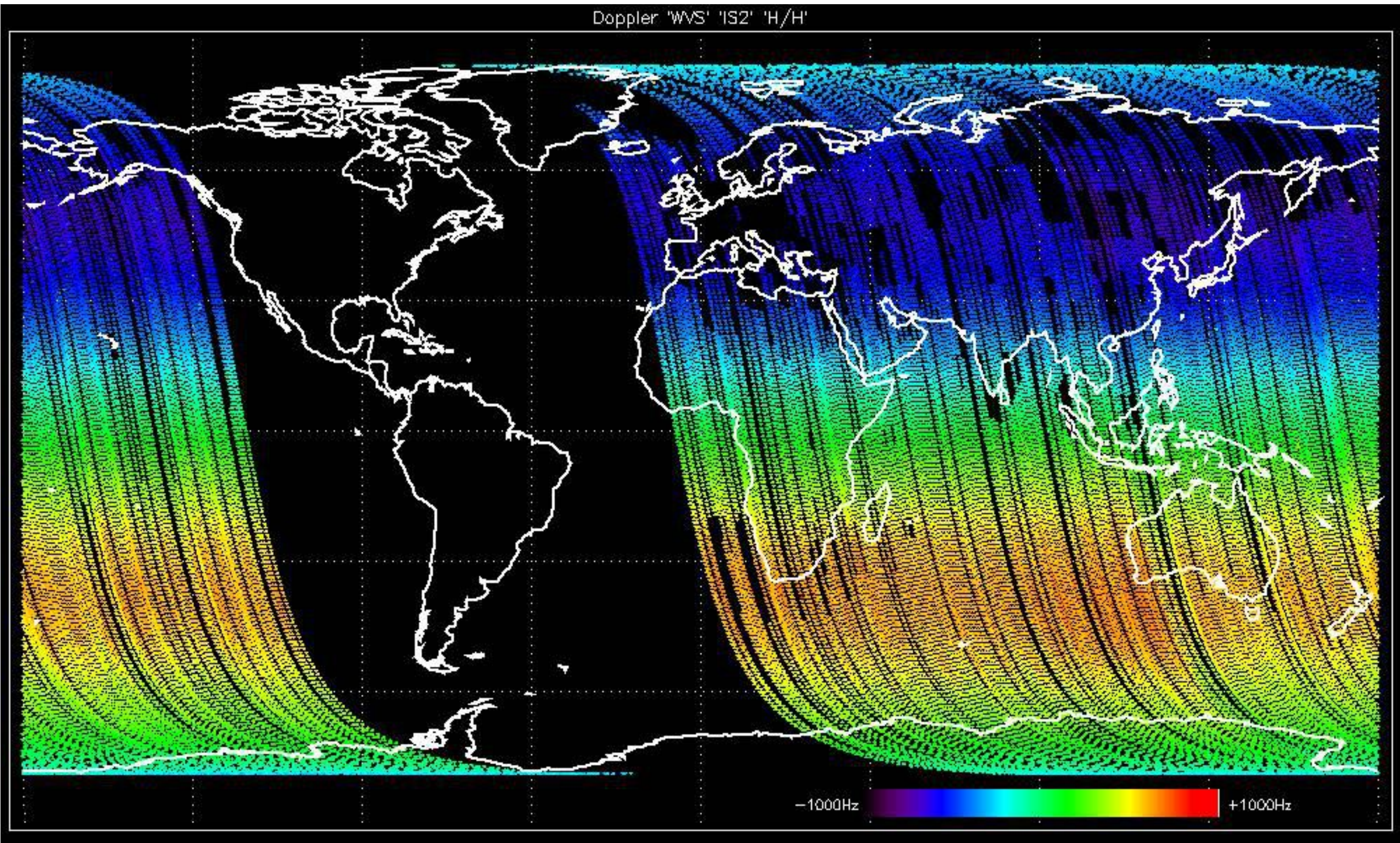
-Stable wave internal calibration pulses gain and phase.

-Stable raw data statistics.

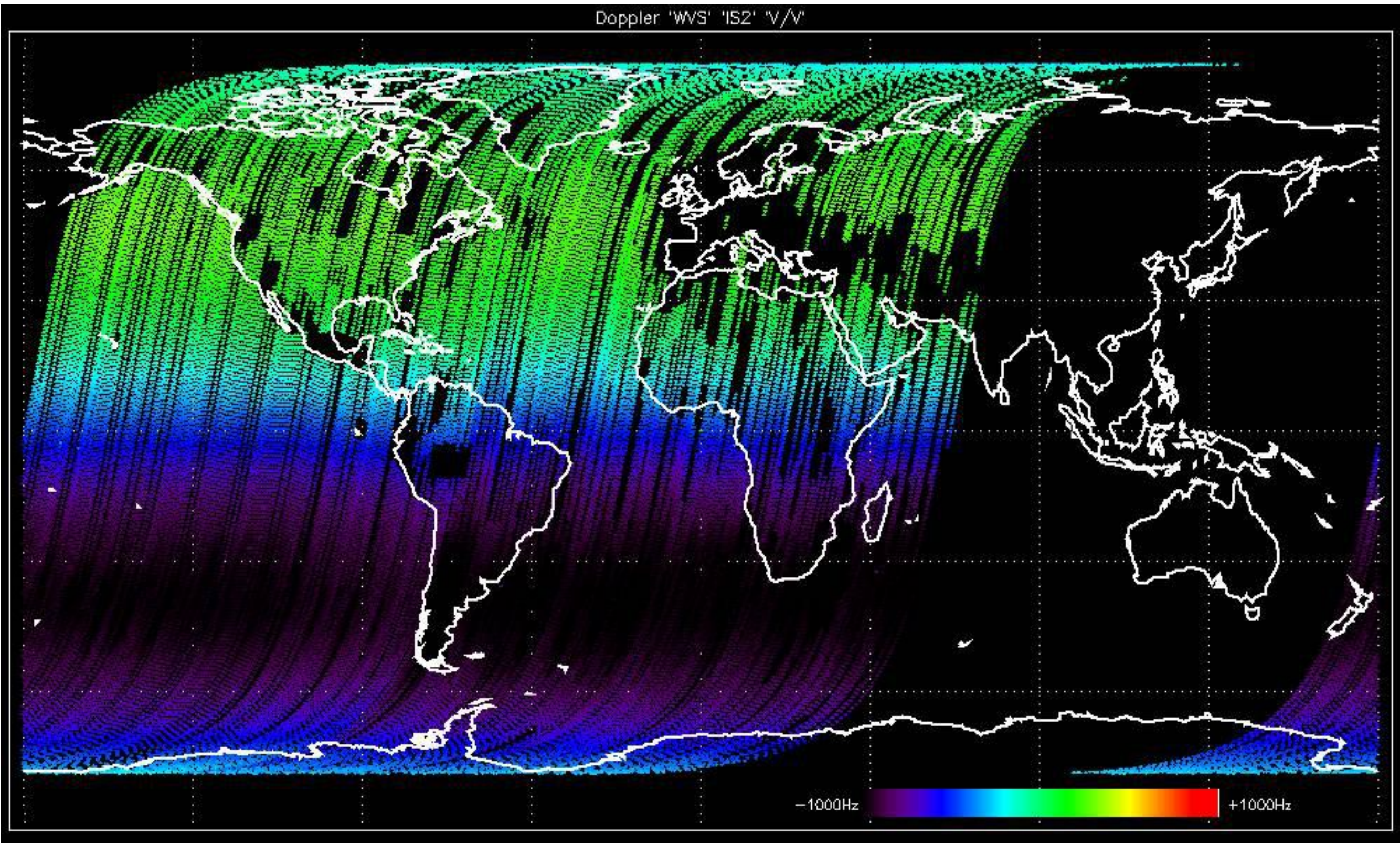
-Nominal Doppler behavior.

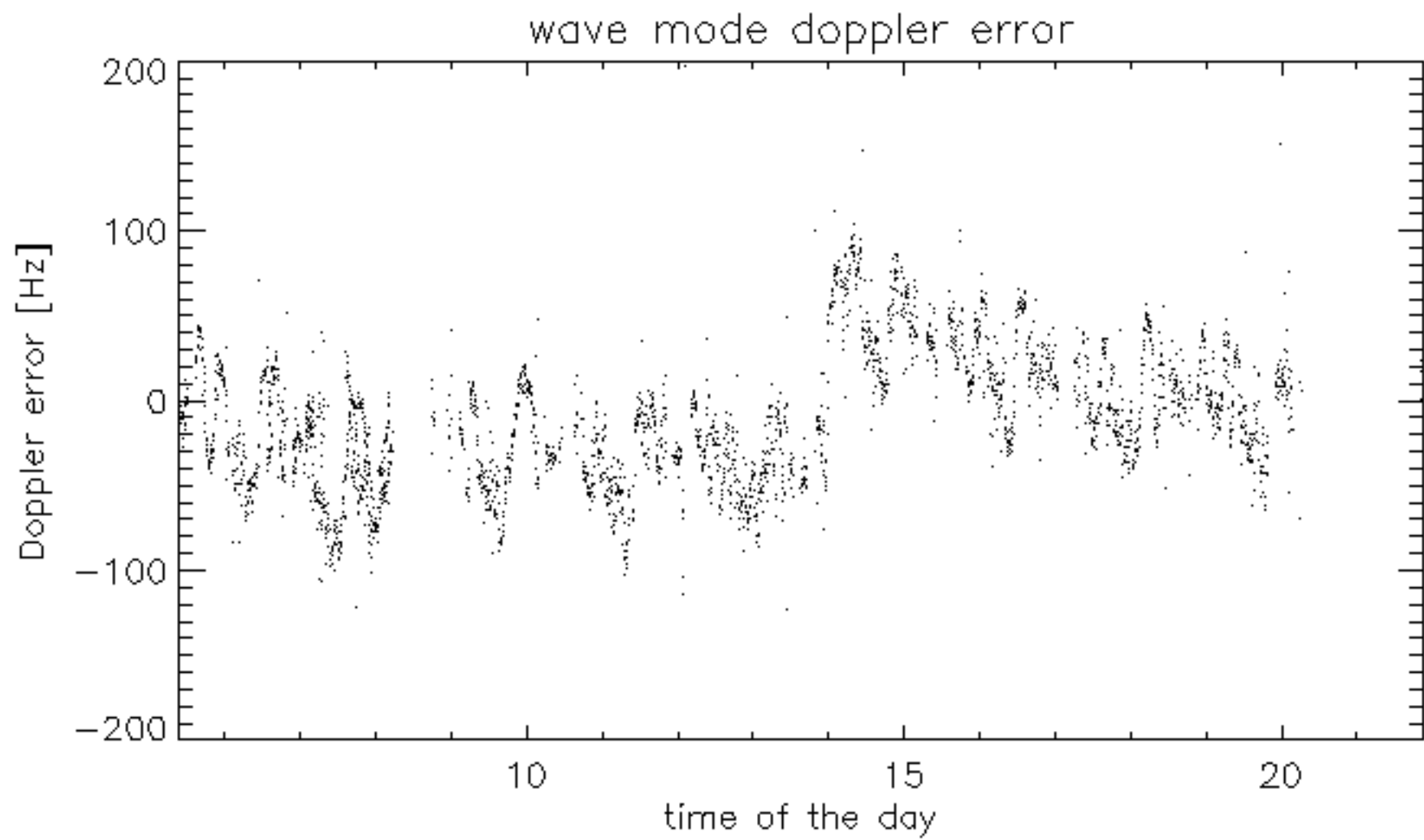
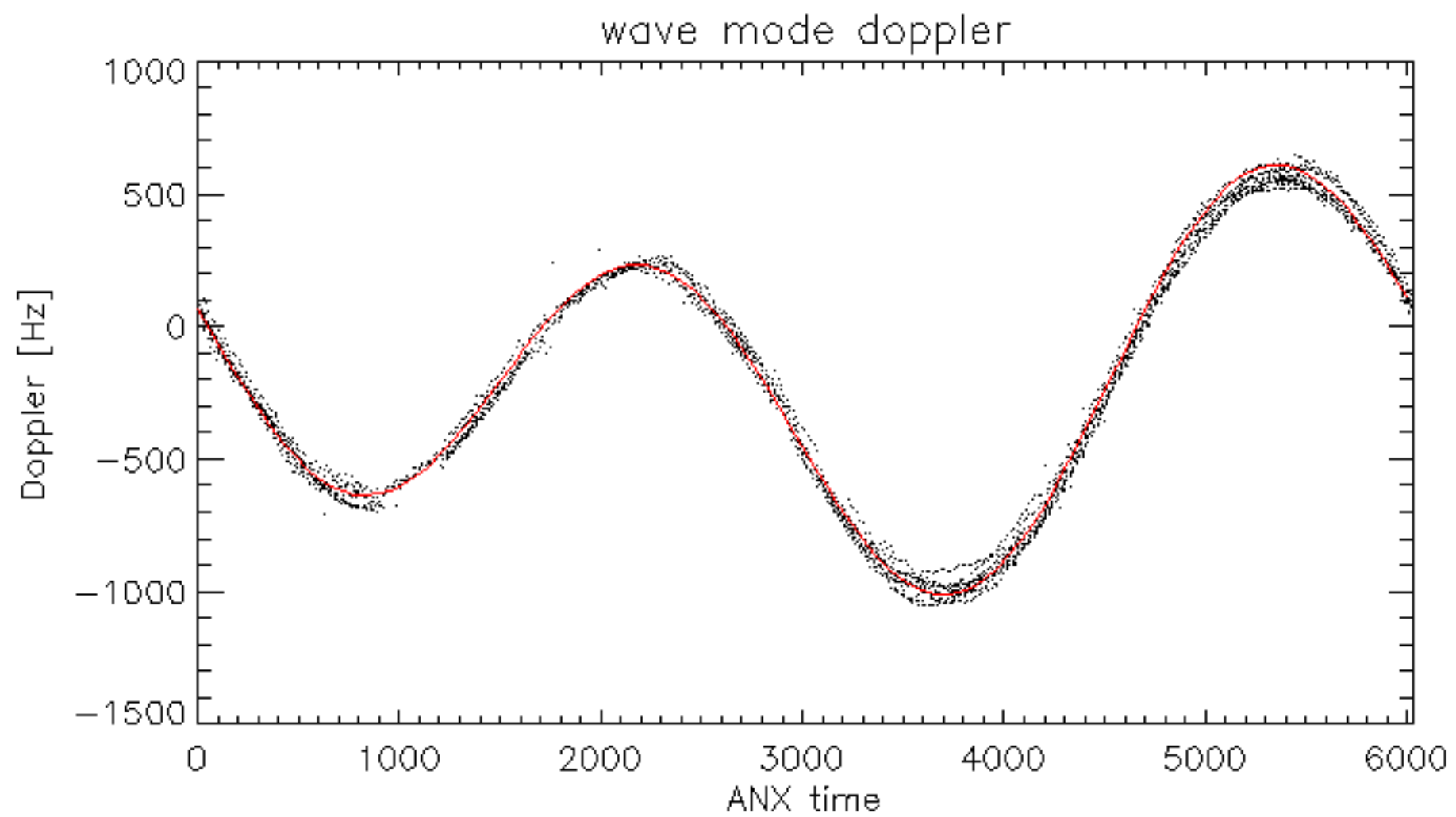
No anomalies observed for Doppler evolution.
Doppler analysis performed over the last 60 days

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

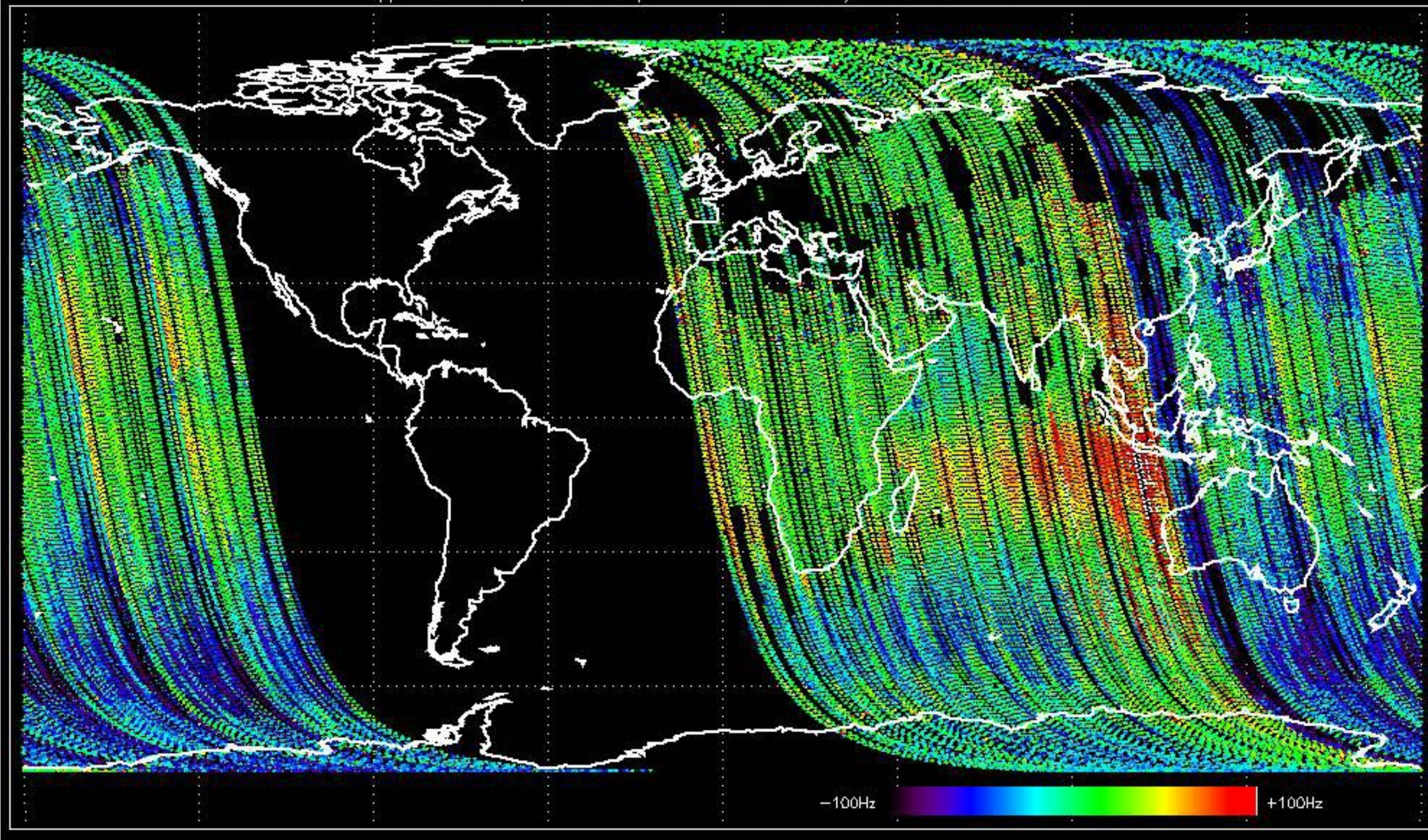


Doppler 'WVS' 'ISZ' 'V/V'

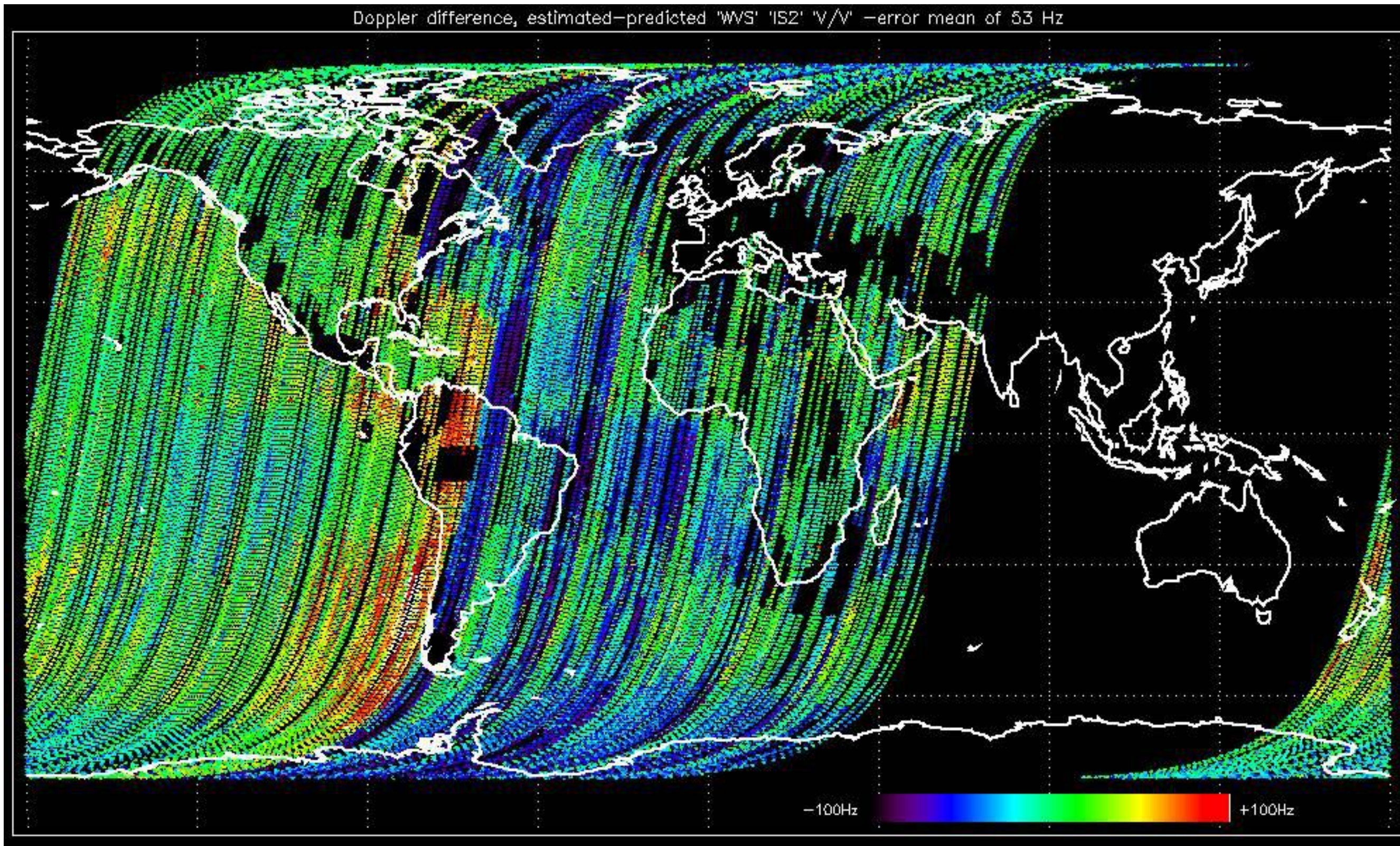




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



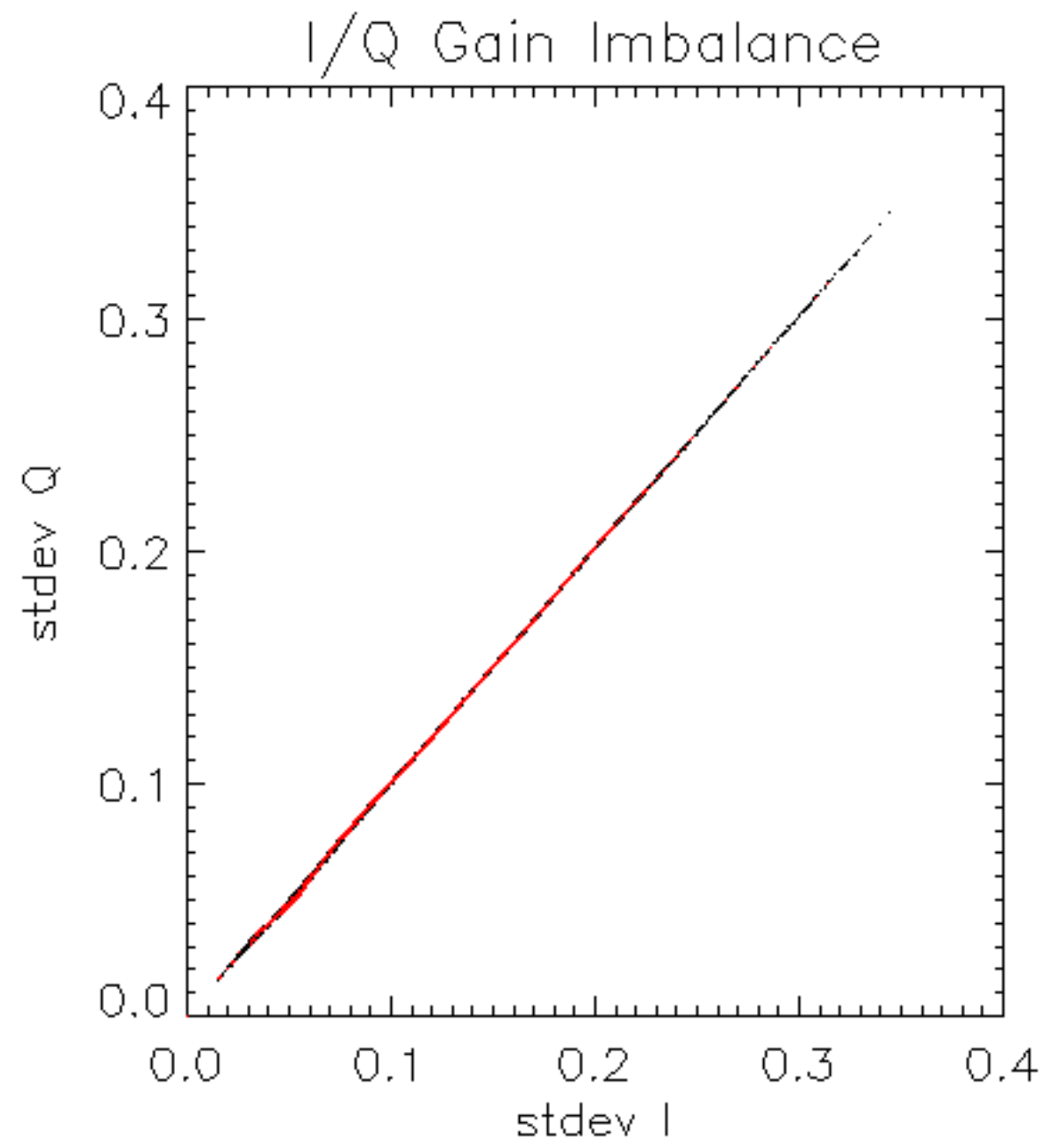
Two MS products available for analysis (H and V polarization):

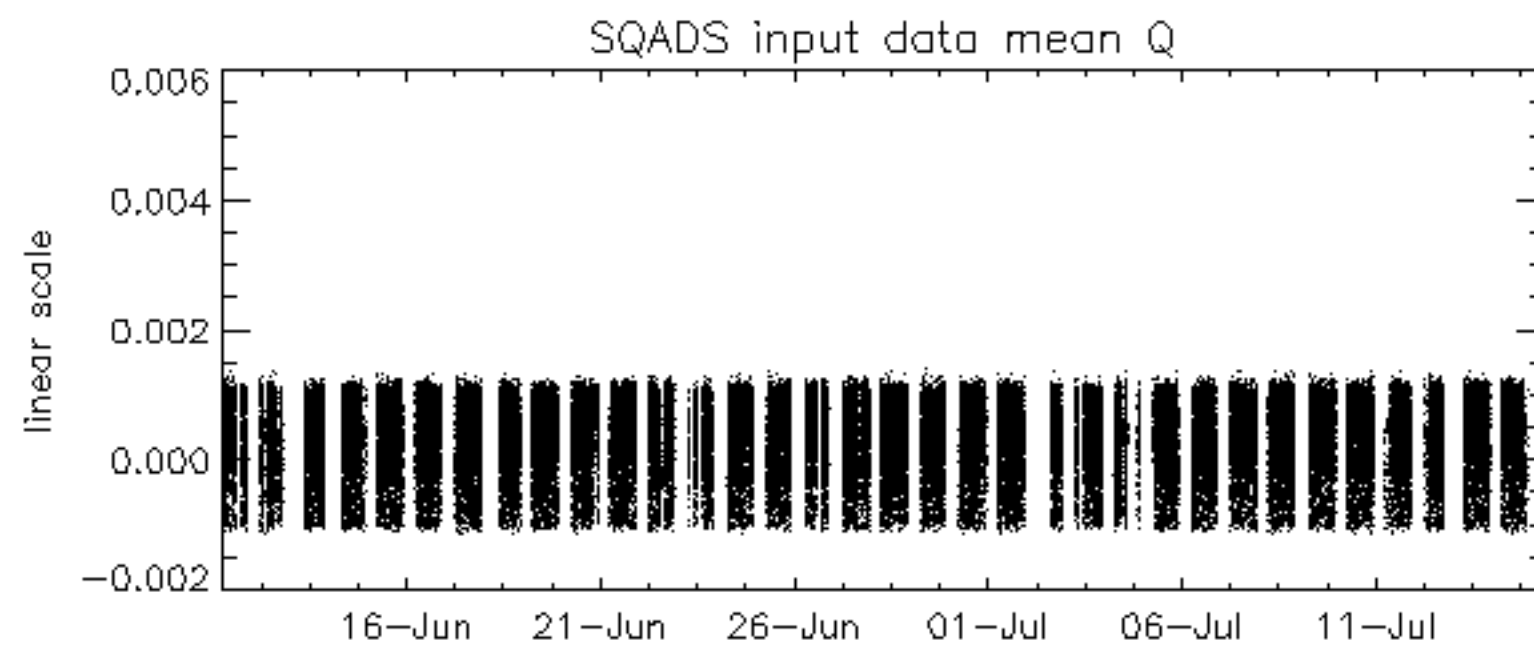
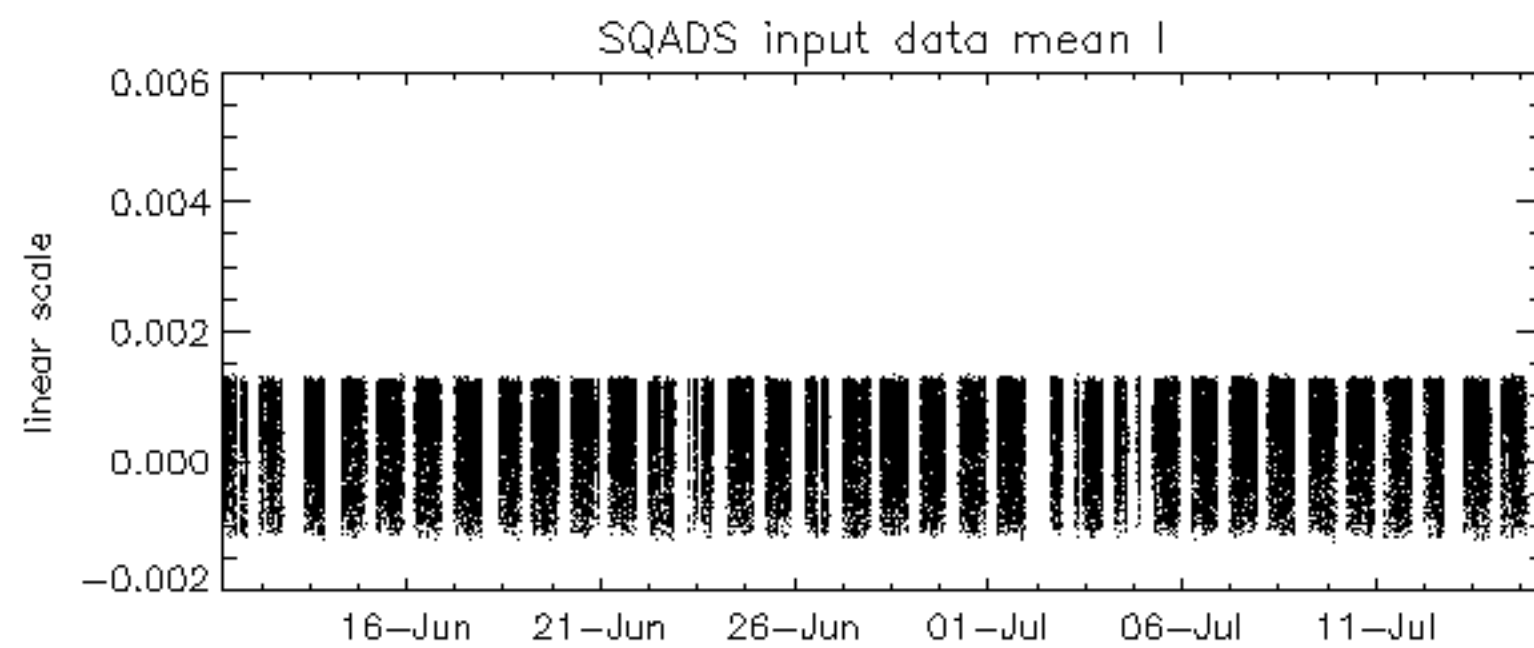
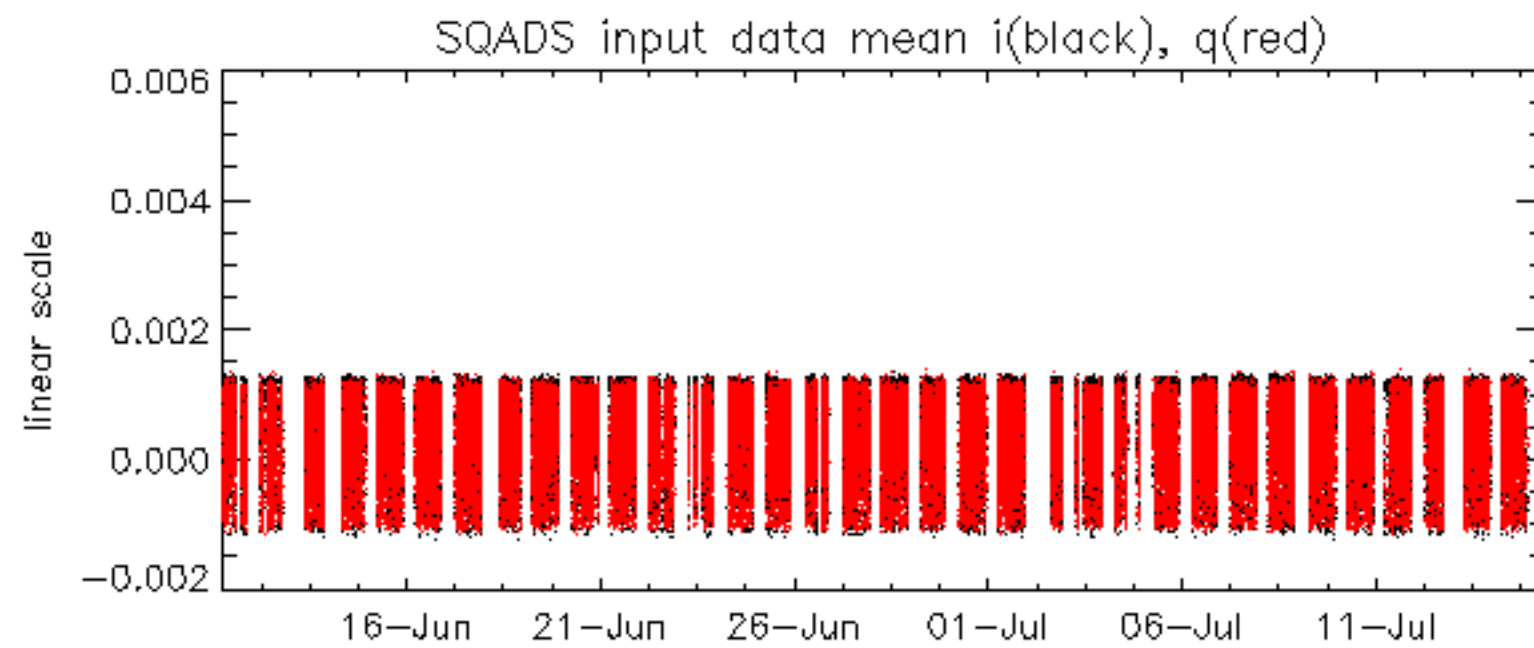
- ASA_MS__0PNPDK20030714_195000_000000152018_00099_07167_0014.N1
- ASA_MS__0PNPDK20030714_195140_000000152018_00099_07167_0015.N1

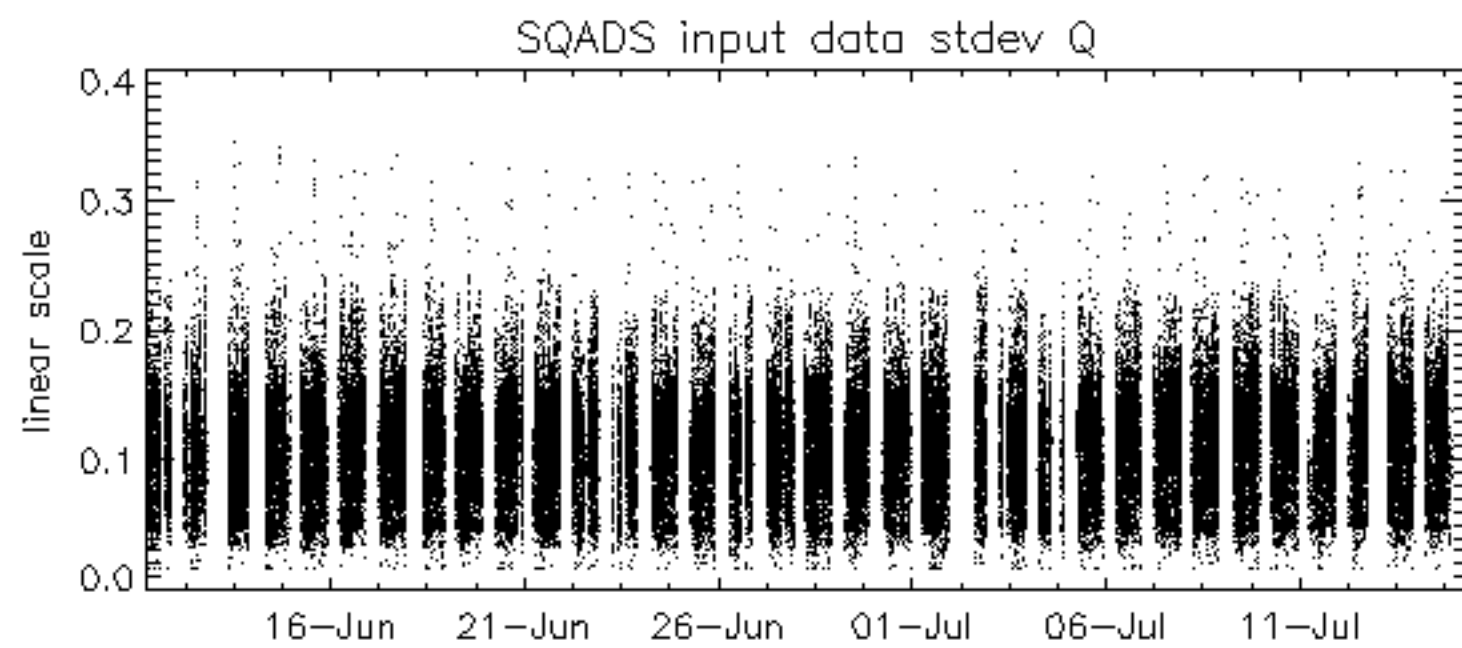
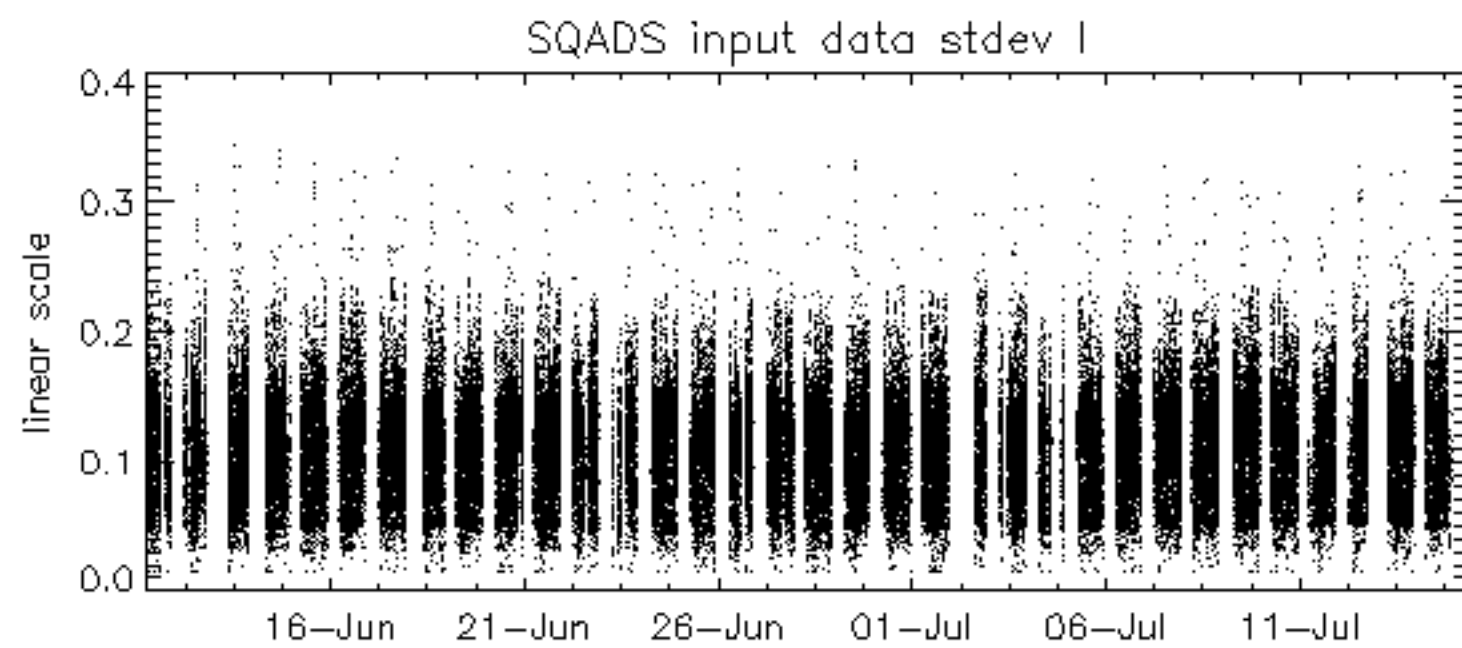
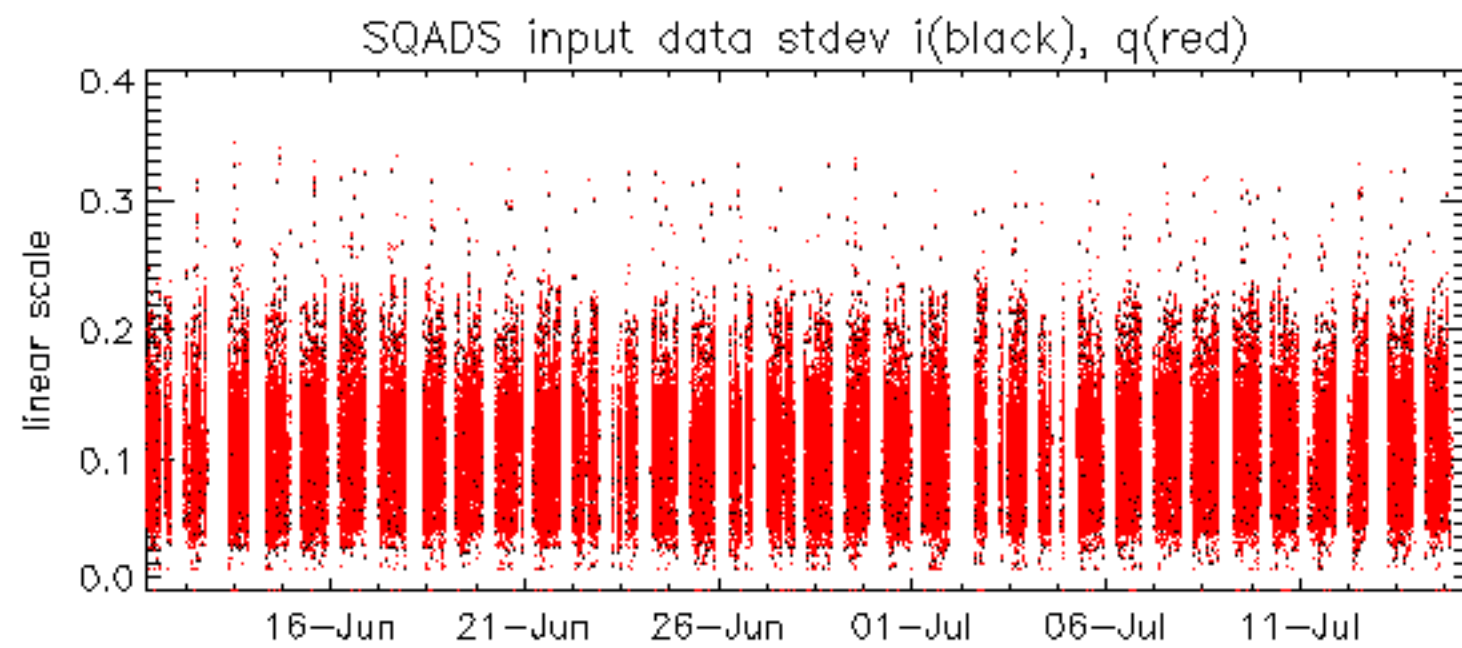
No anomalies observed.

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

No anomalies observed.
Nominal value of I and Q level0 statistics.







No unavailabilities during the reported period