

REPORT OF 031125

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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.

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.

3 - Module Stepping Mode

The MS mode provides an internal health check on an individual module basis.
The purpose of this mode is to identify to identify any malfunctionning modules and
to identify modules for which calibration offsets are to be applied.
No anomalies observed on available MS products:

Polarisation	Start Time
V	20031124 200628
H	20031124 200508

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	-3.75630	-22.5796	-8.16735
3	stdev	0.00761155	0.0596318	0.00336940

24	mean	-5.10081	-21.2552	-8.16735
	stdev	0.0122227	0.0583979	0.00336940

☒

4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.77155	-22.5536	-8.15723
	stdev	0.00624818	0.0664369	0.00324986
24	mean	-5.13974	-21.2442	-8.15723
	stdev	0.0131661	0.0601750	0.00324986

☒

4.3 - cal pulses monitoring (all rows)

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5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000328495
	stdev	1.01642e-05
MEAN Q	mean	0.000157012
	stdev	1.01524e-05

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5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.112801
	stdev	0.00154358

STDEV Q	mean	0.113052
	stdev	0.00156040

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5.3 - Gain imbalance I/Q

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6 - Wave Doppler Analysis

No anomalies observed Doppler evolution.

Doppler analysis performed over the last 35 days

6.1 - Unbiased Doppler Error

Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

6.2 - Absolute Doppler

Evolution of Absolute Doppler

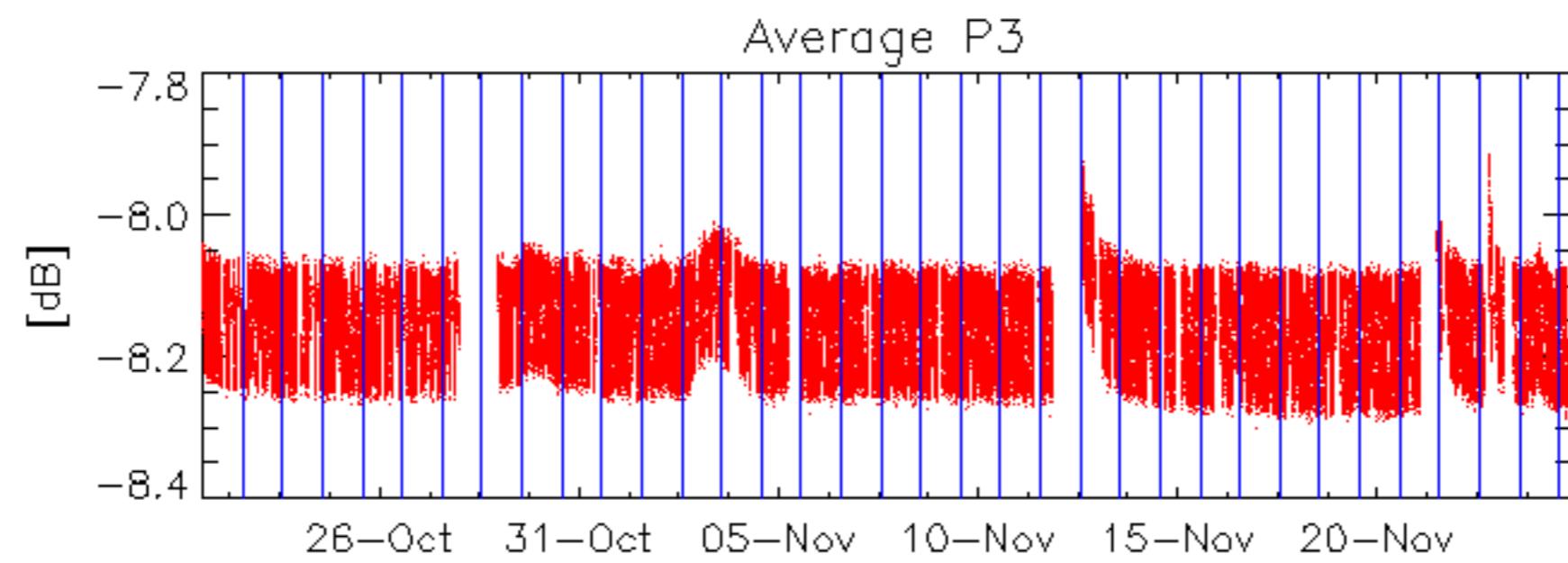
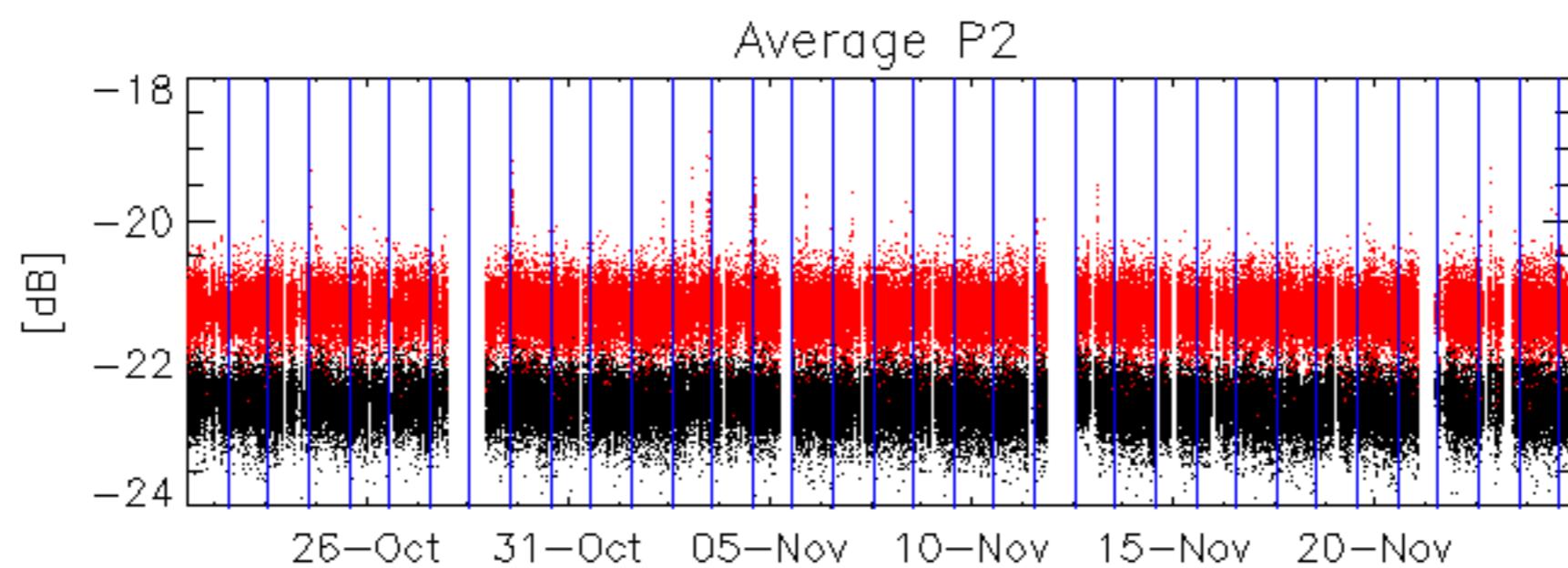
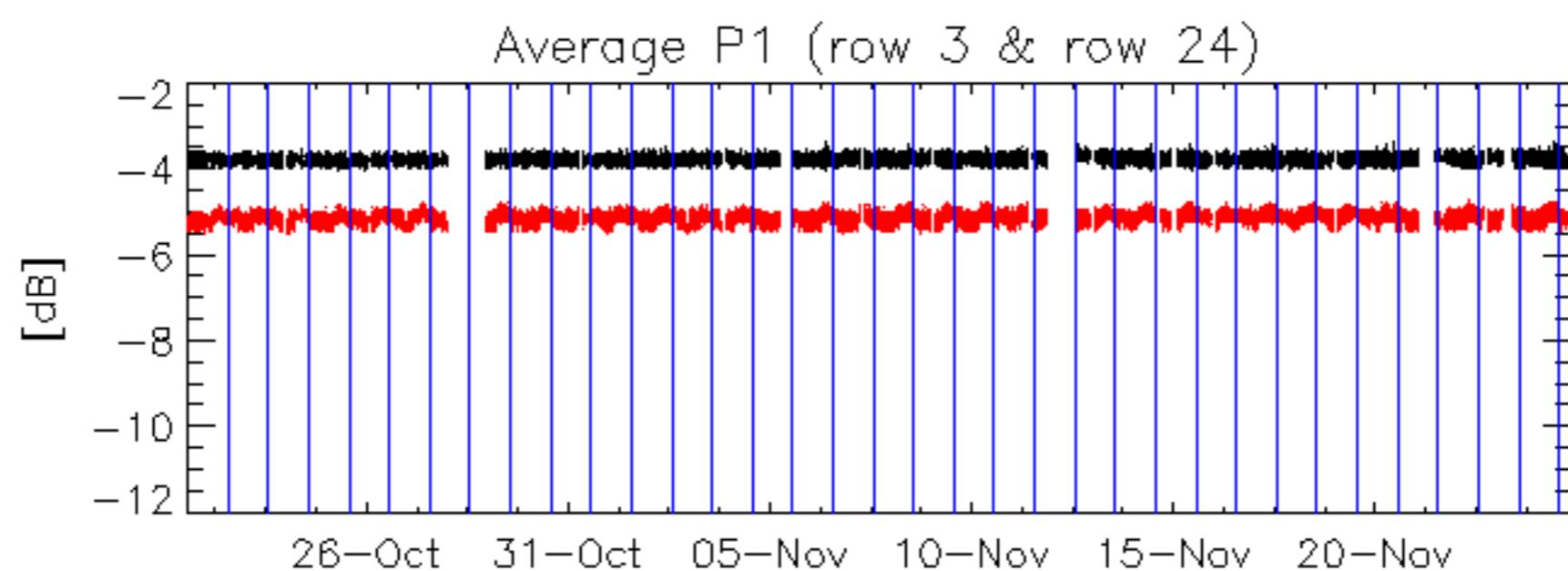
Acsending

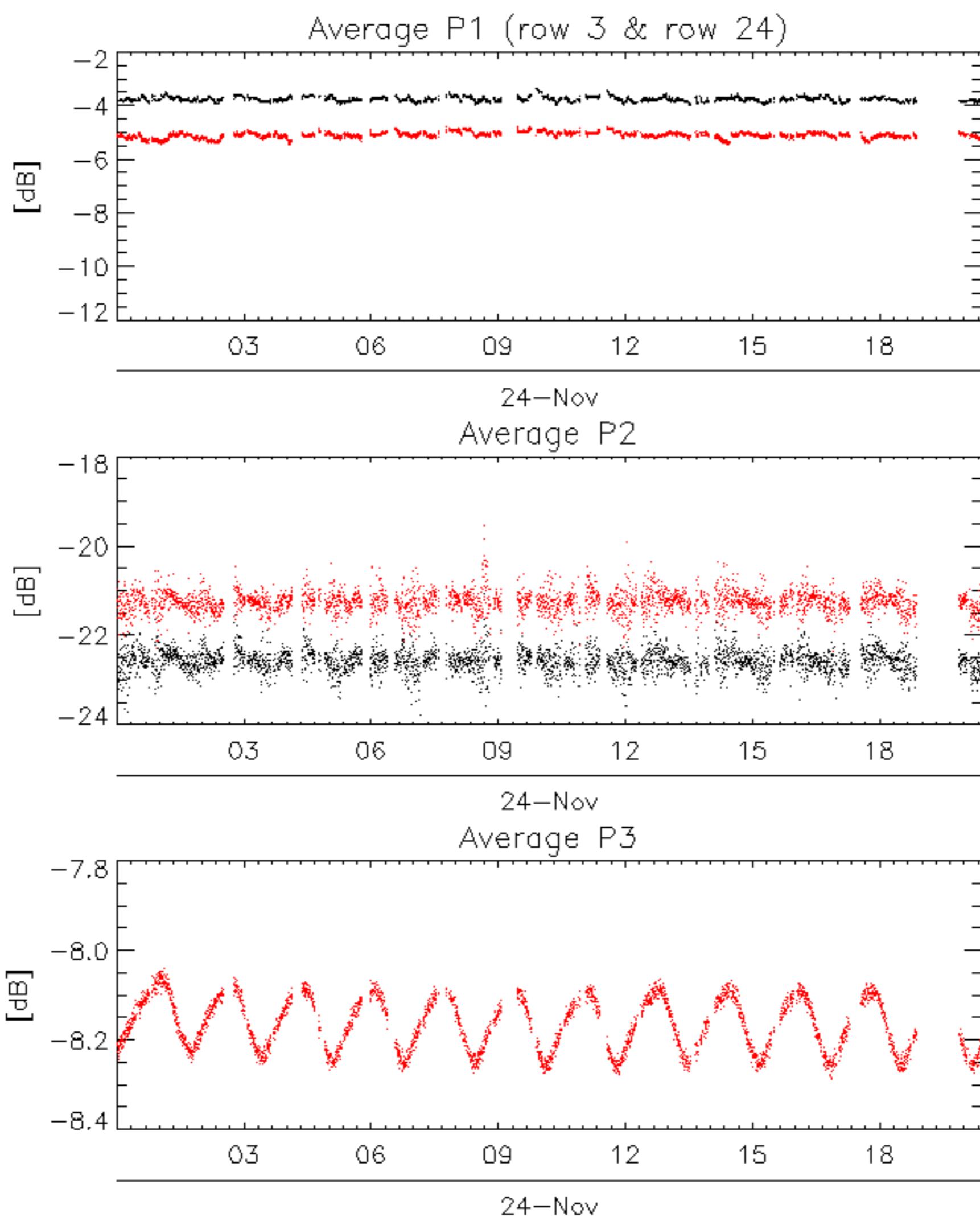
Descending

6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX

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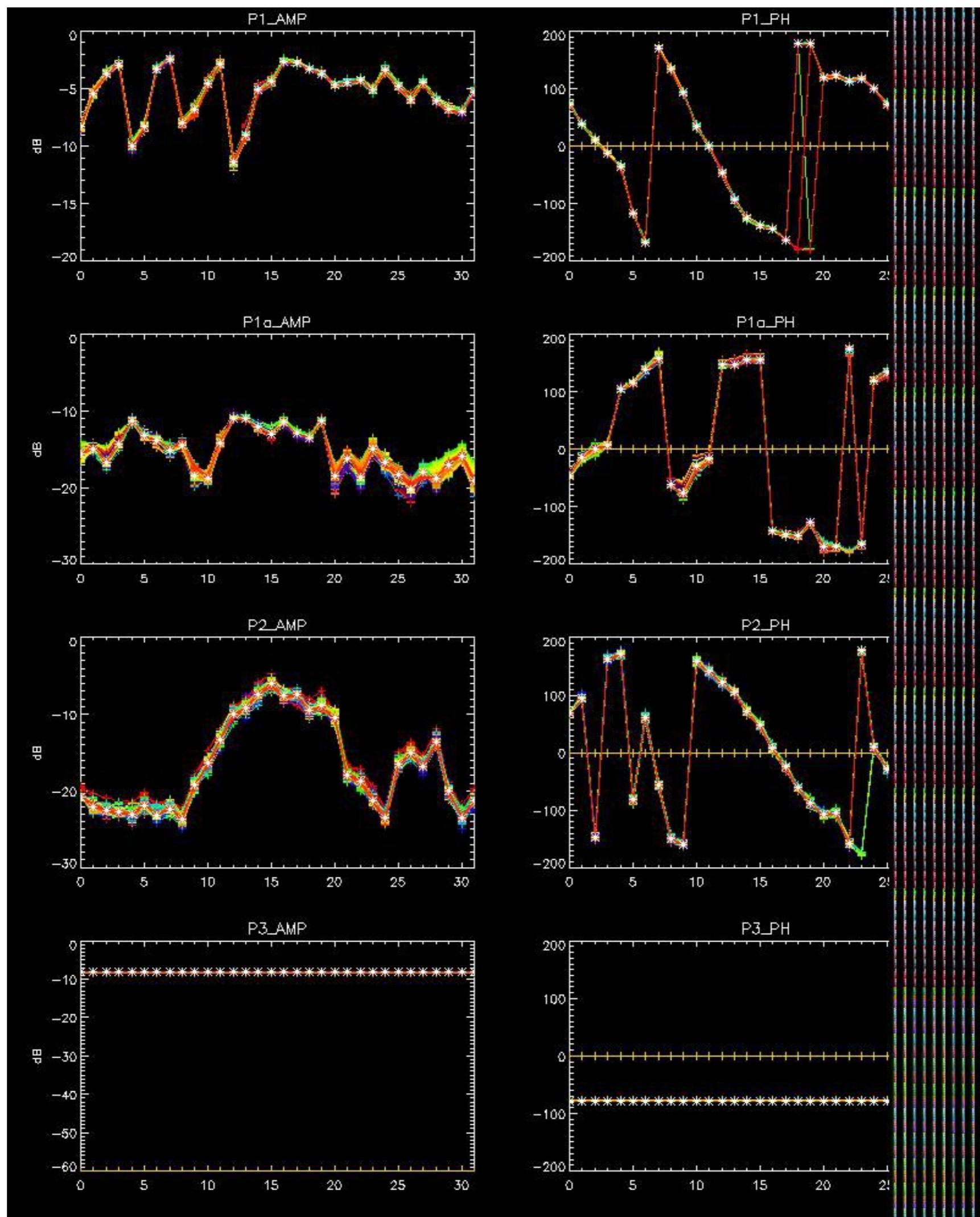


No anomalies observed on available browse products



No anomalies observed.



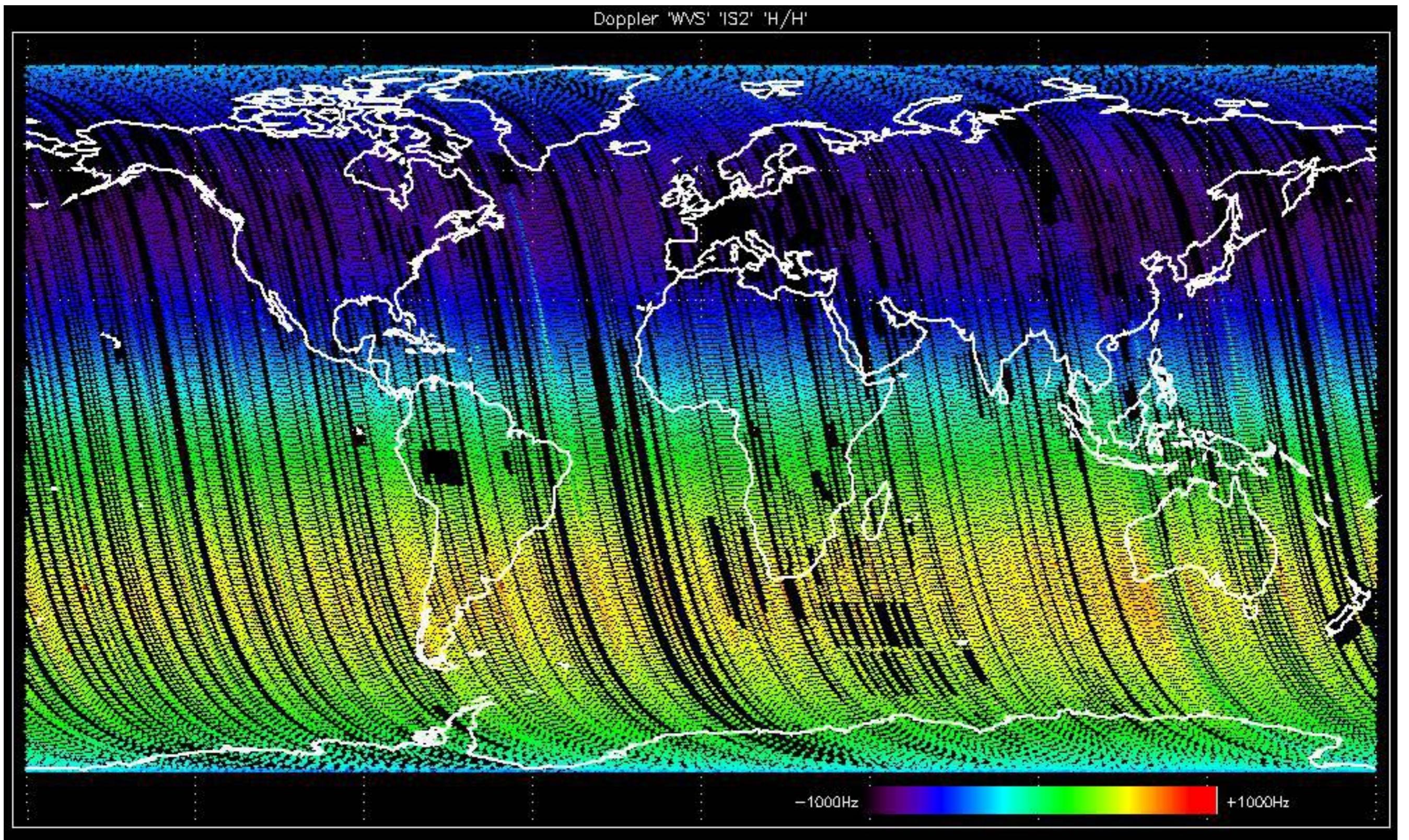


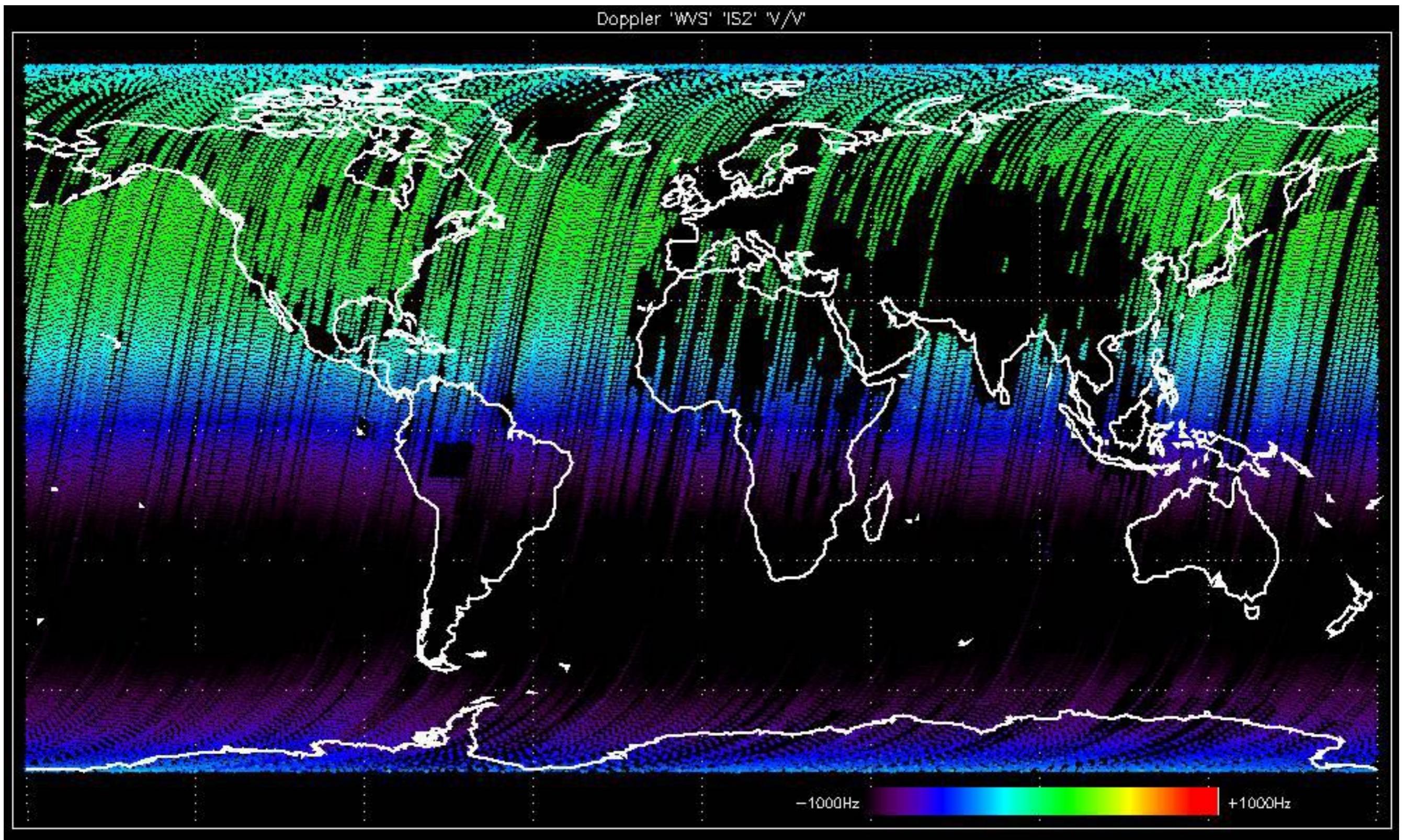
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

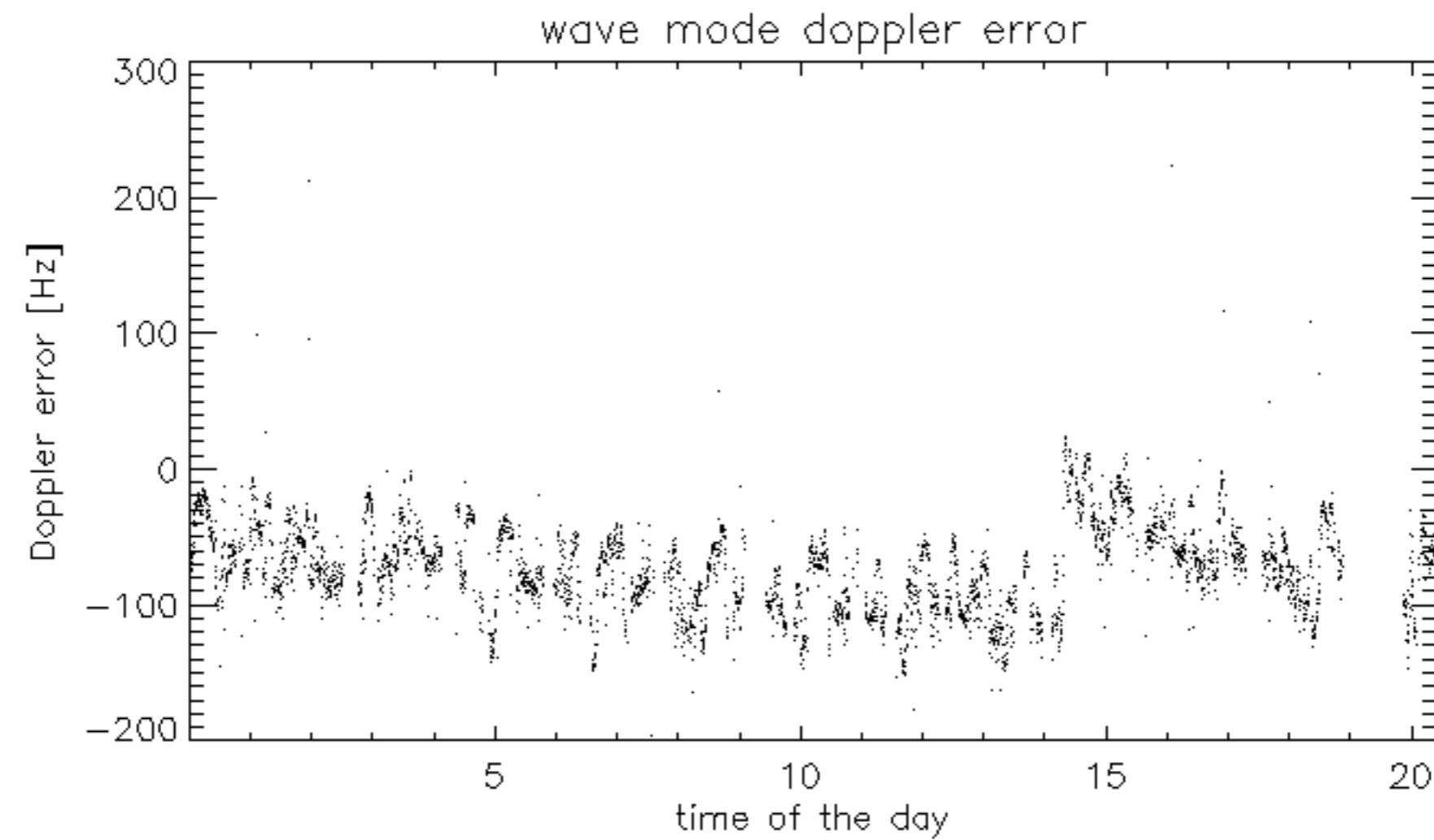
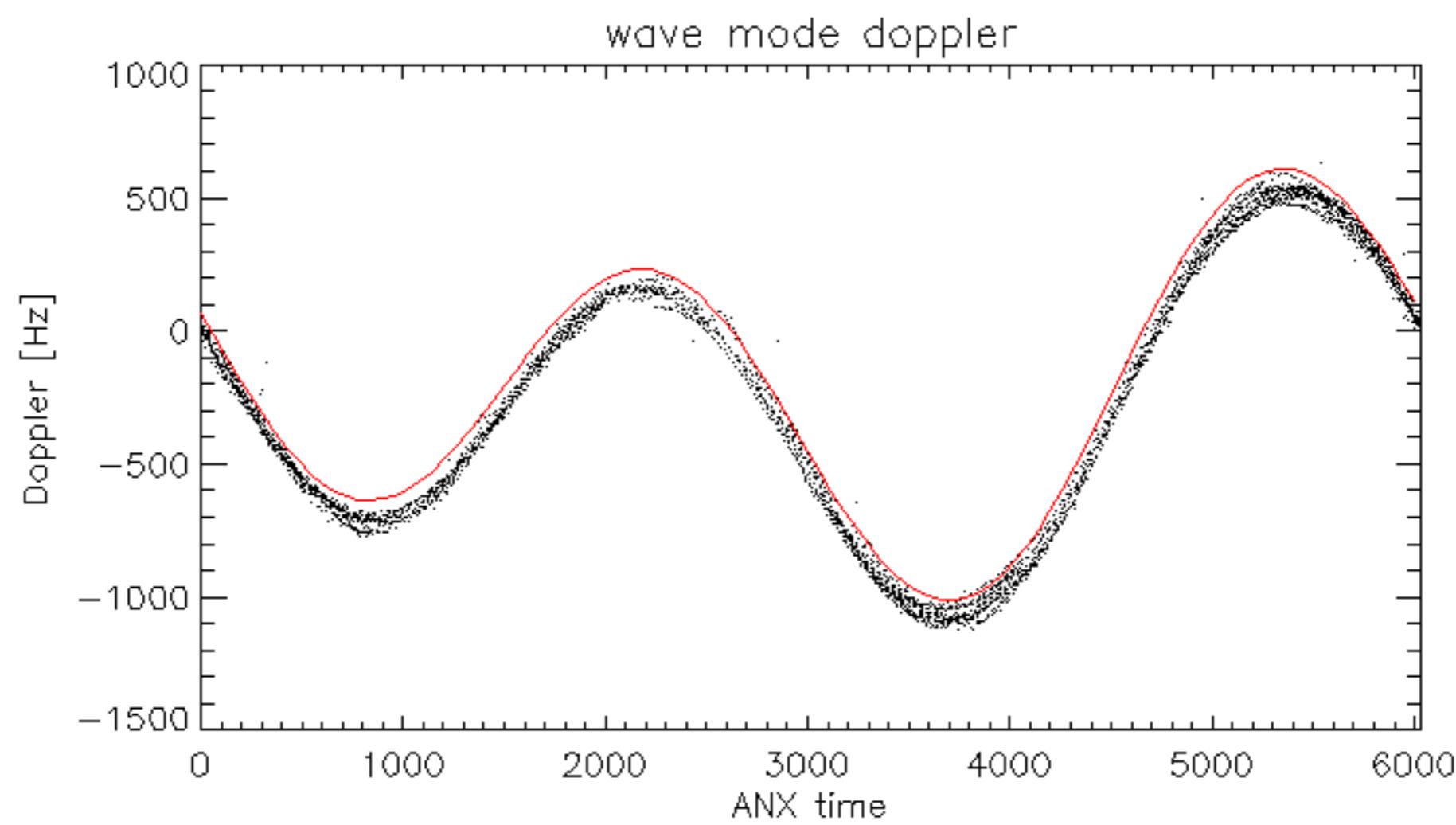


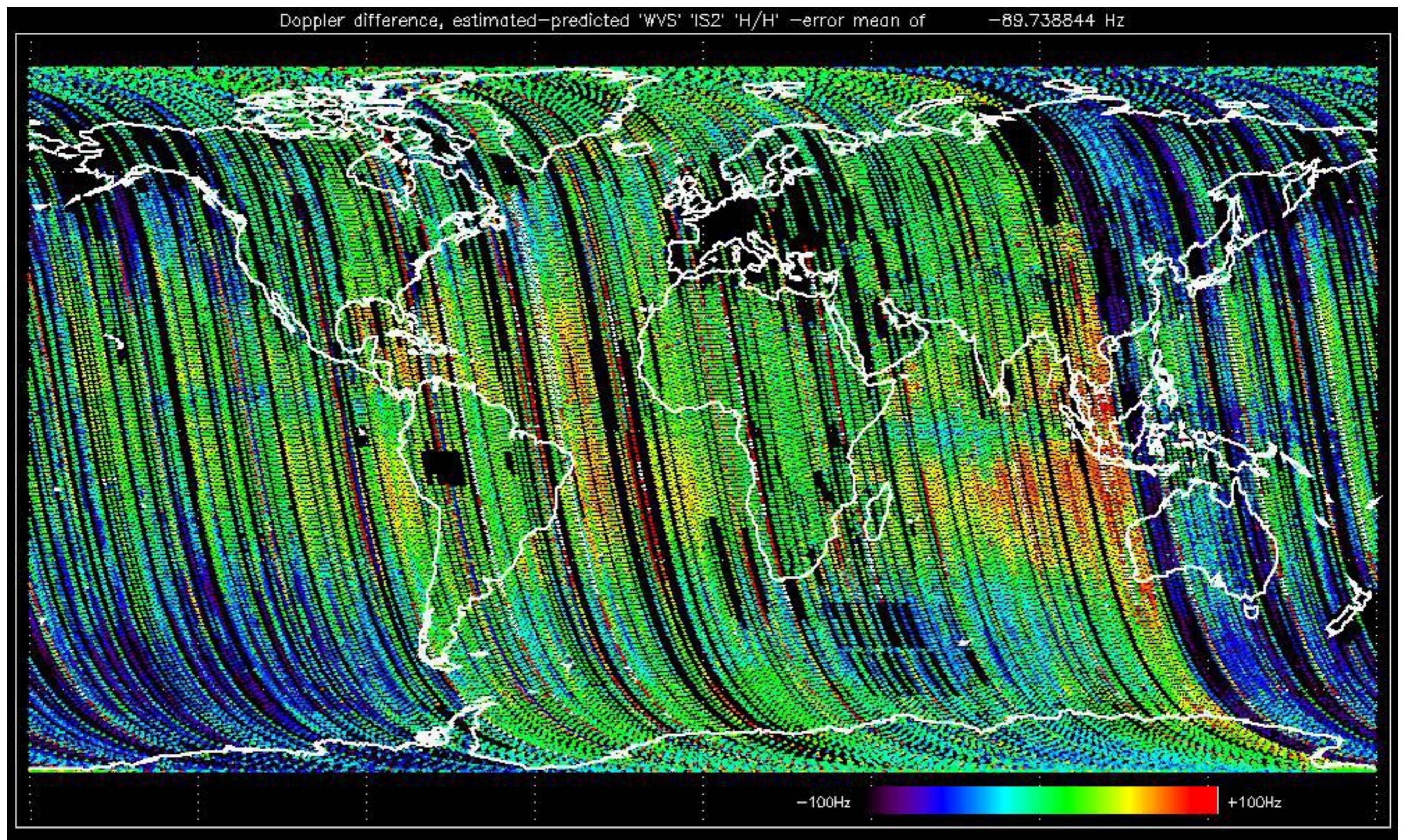
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 35 days

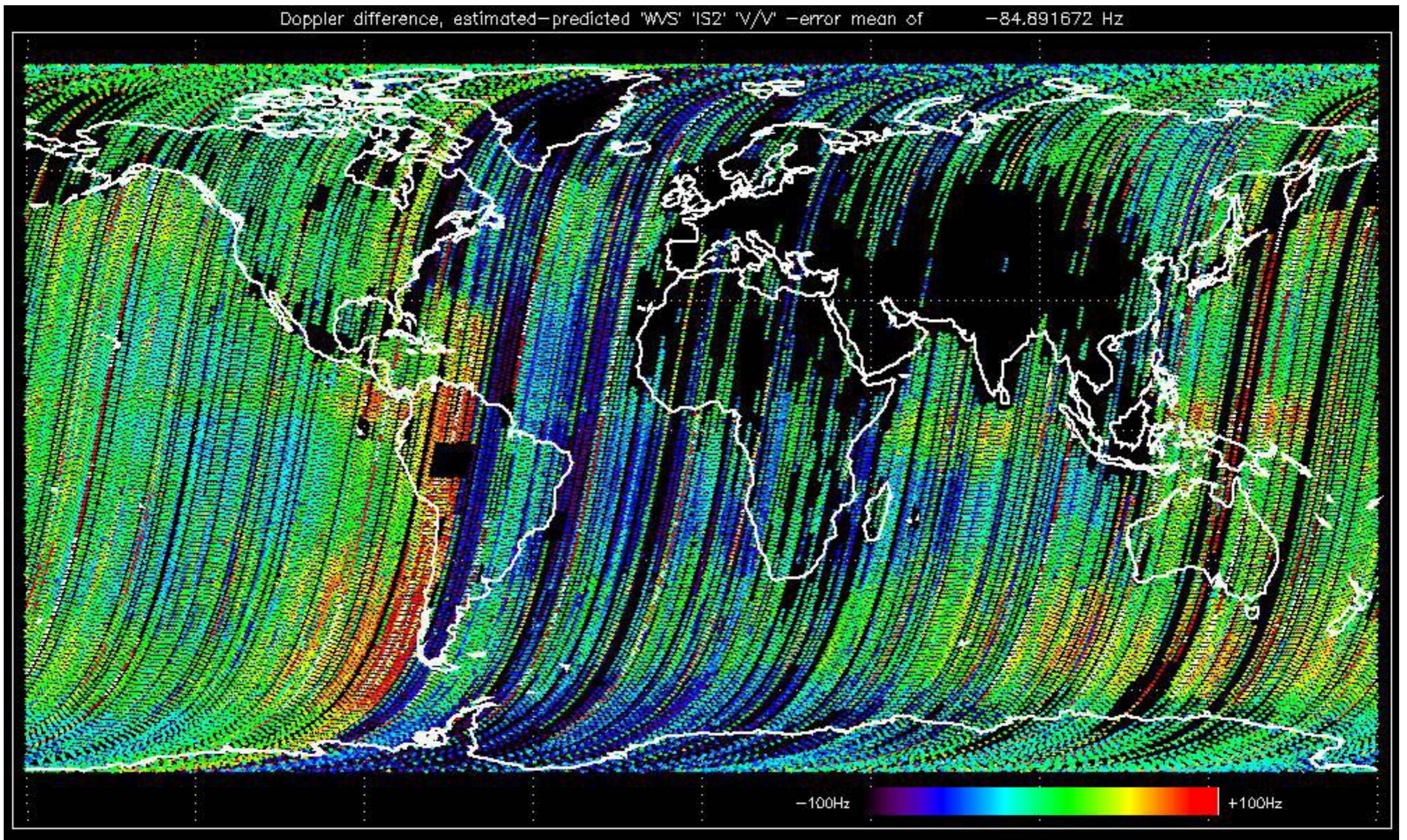












The MS mode provides an internal health check on an individual module basis.
The purpose of this mode is to identify any malfunctionning modules and
to identify modules for which calibration offsets are to be applied.
No anomalies observed on available MS products:

No anomalies observed.



Reference: 2001-02-09 13:50:42 H RxGain

Test : 2003-11-24 20:05:08 H

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

Test : 2003-11-24 20:05:08 H

Reference: 2001-02-09 14:08:23 V RxGain

RxGain

Test : 2003-11-24 20:06:28 V

Reference: 2003-06-12 14:10:32 V

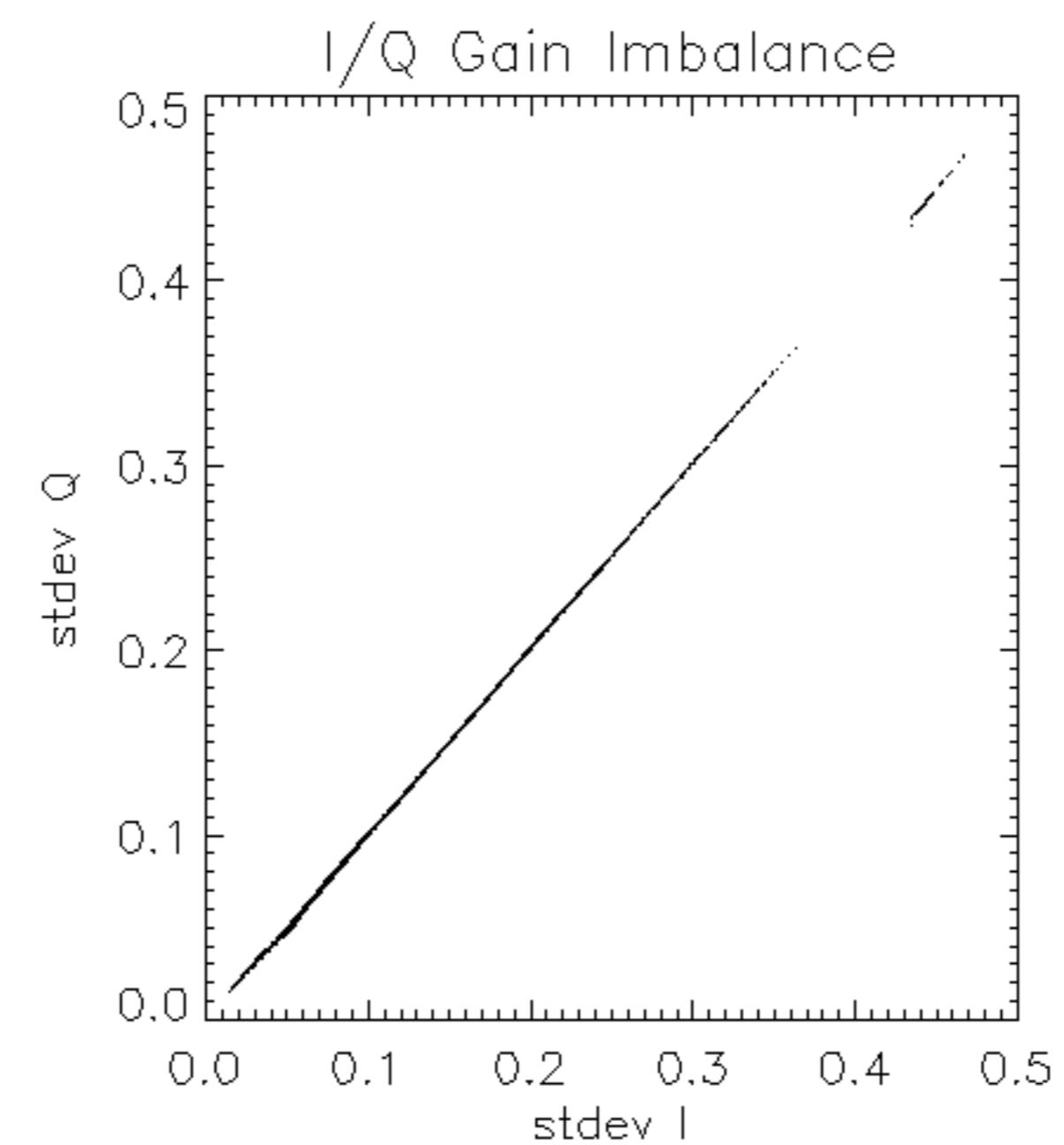
Test : 2003-11-24 20:06:28 V

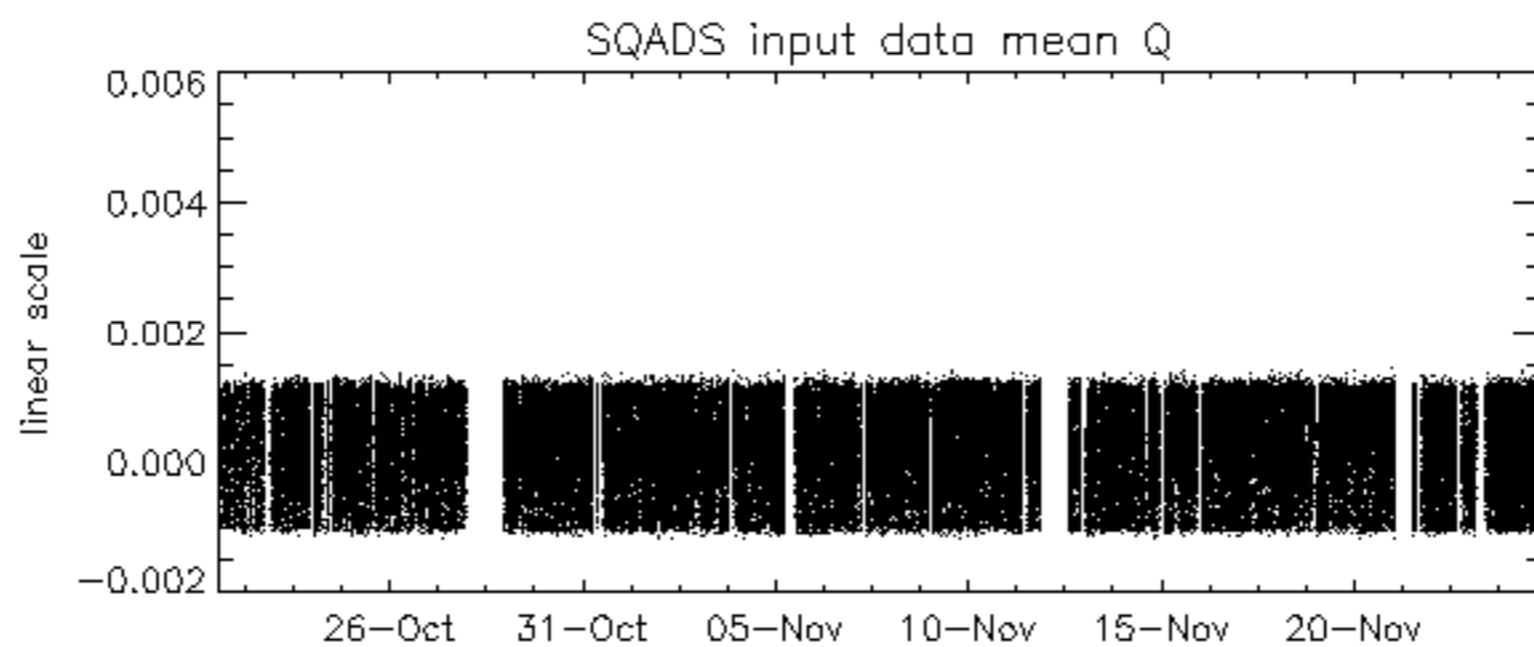
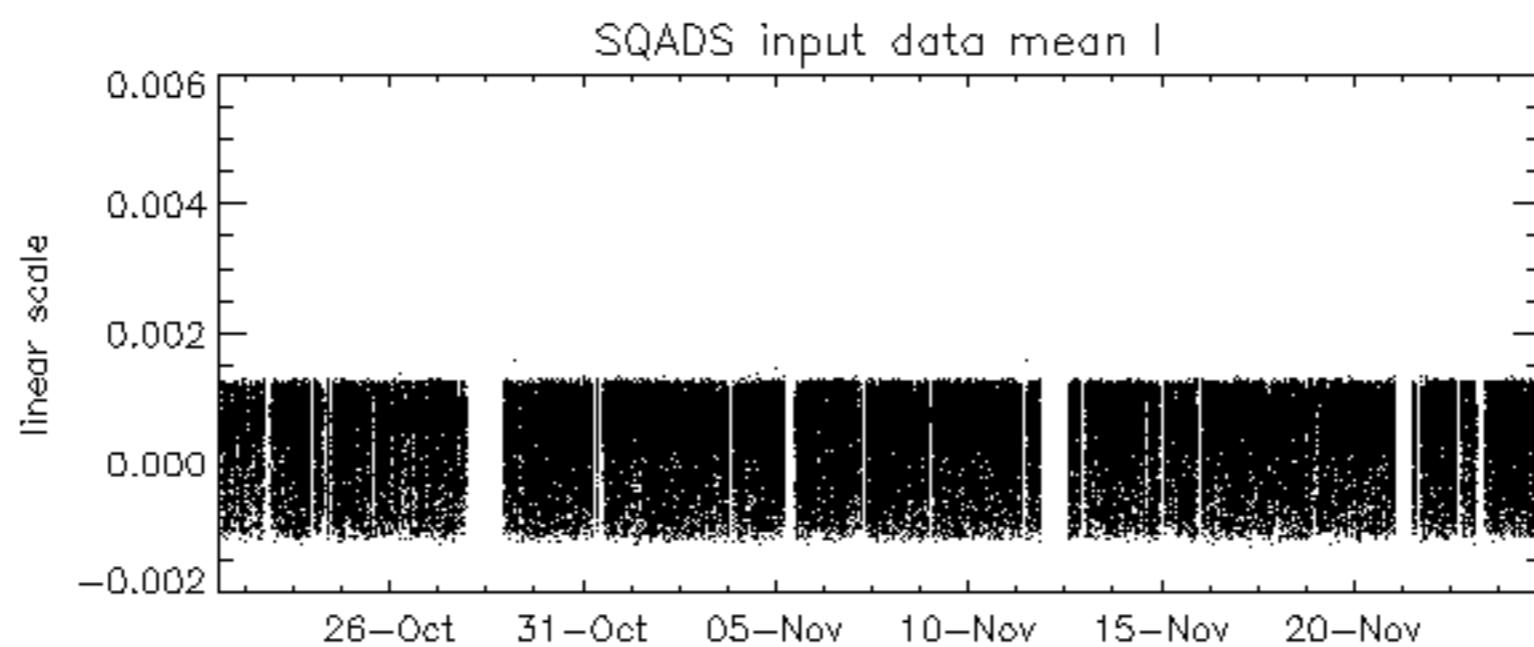
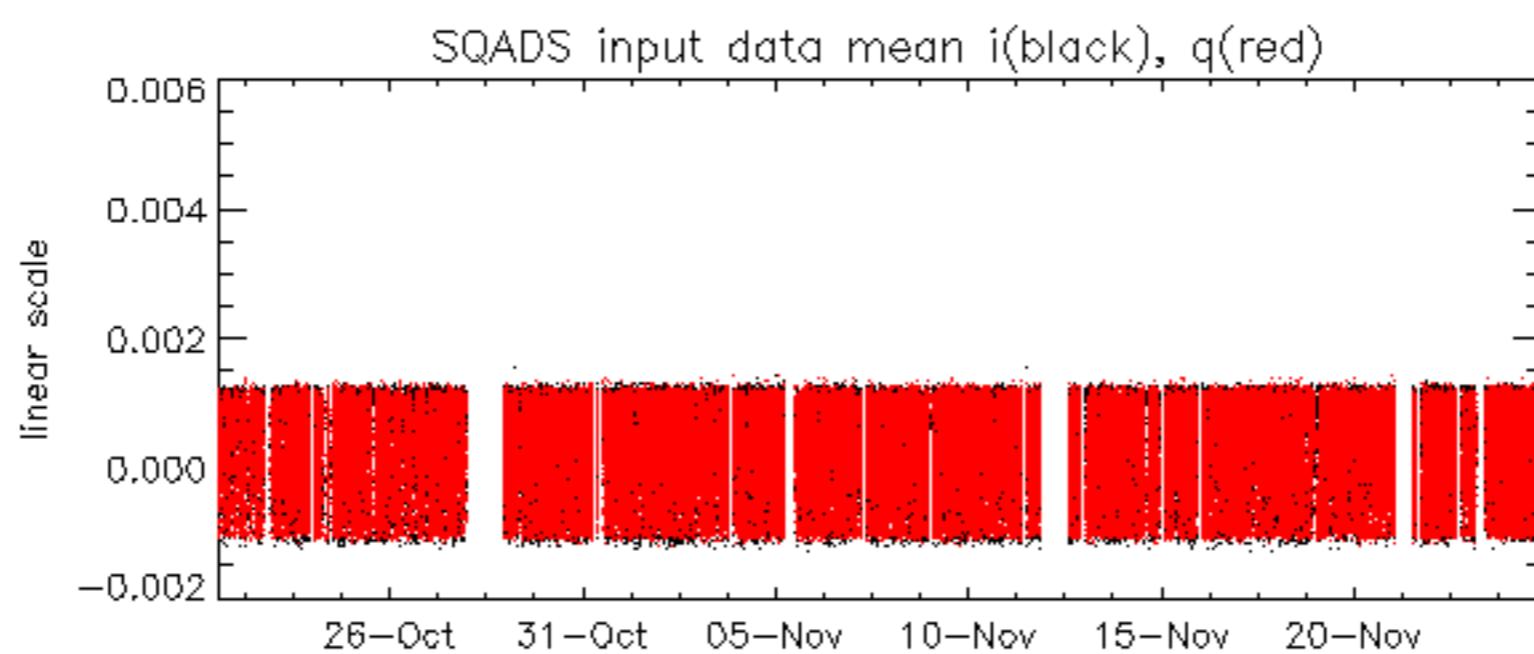
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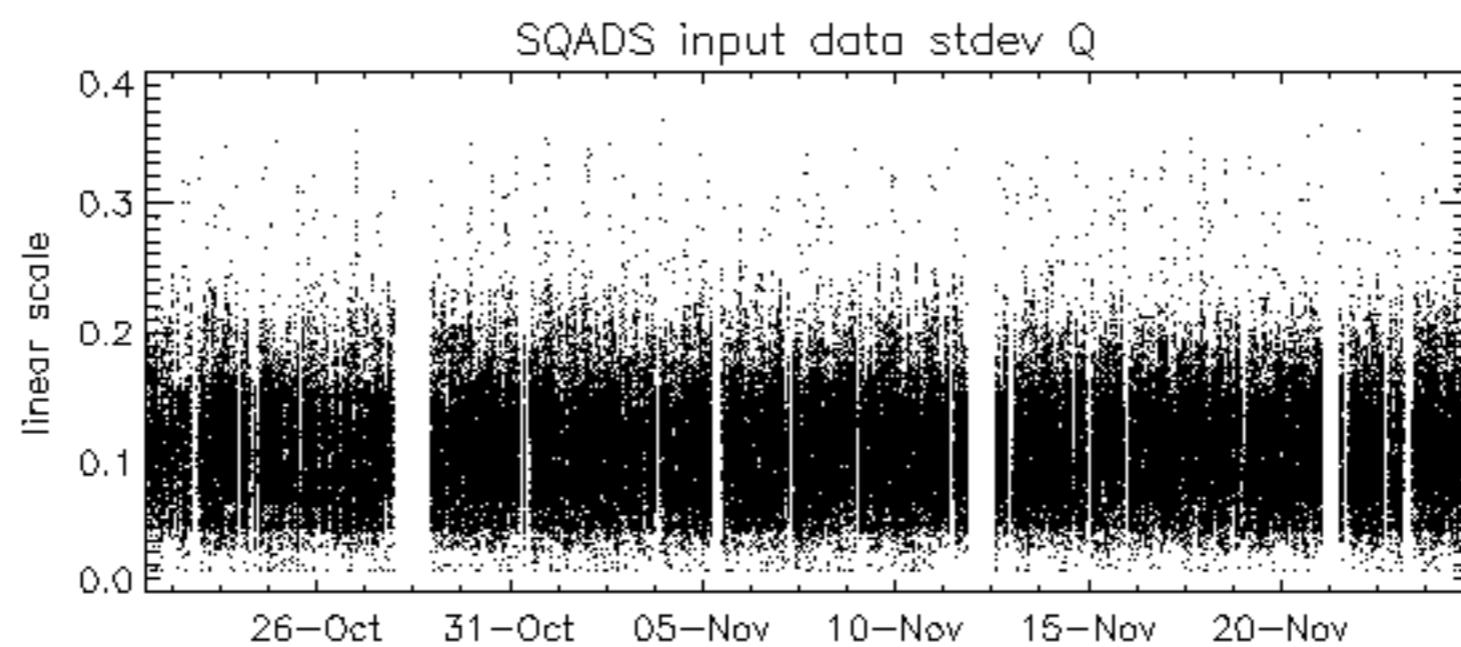
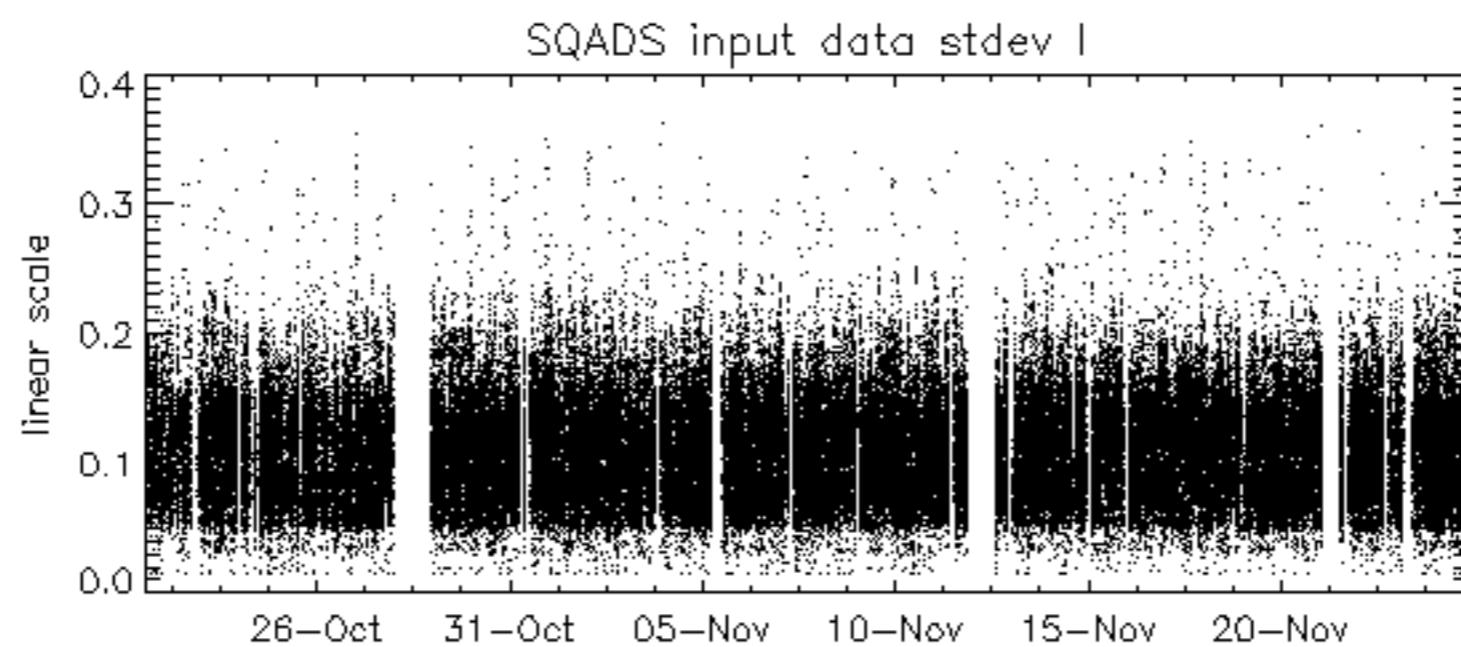
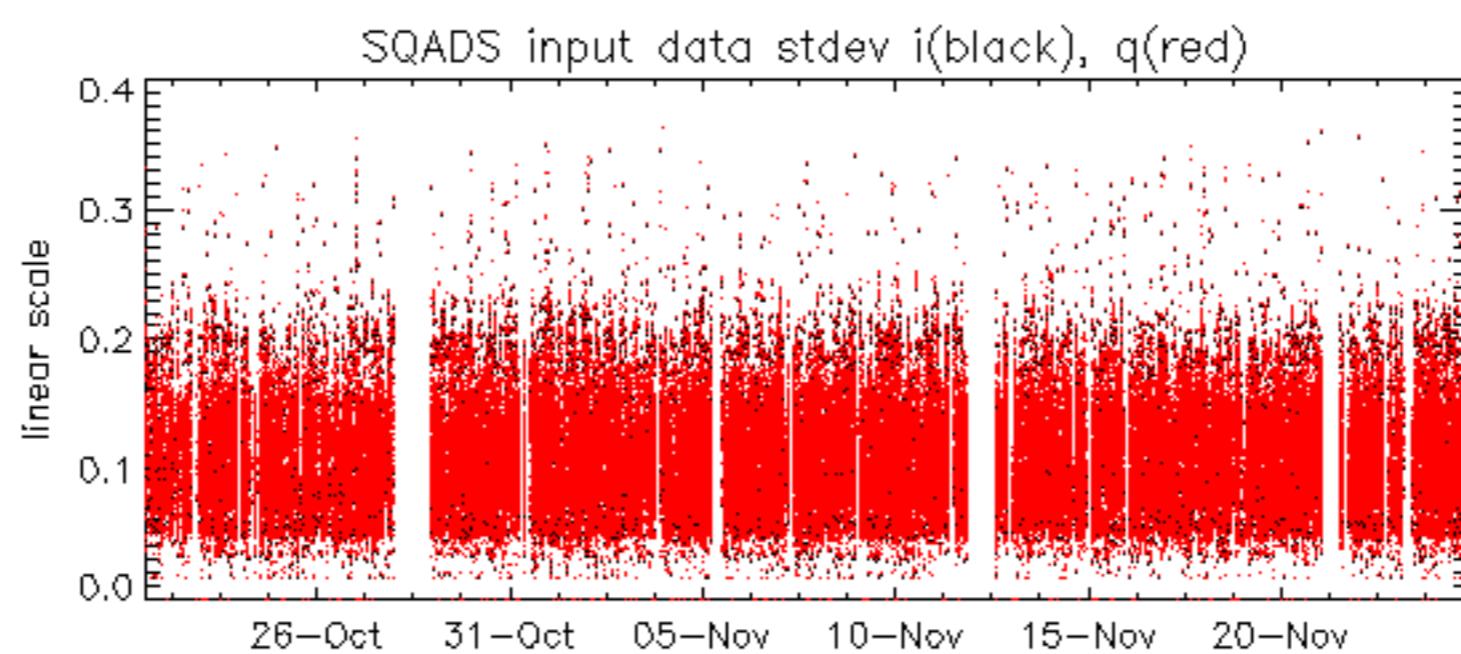
Test : 2003-11-24 20:06:28 V

Reference: 2003-06-12 14:10:32 V RxPhase

Test : 2003-11-24 20:06:28 V







Reference: 2001-02-09 13:50:42 H

Test : 2003-11-24 20:05:08 H

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

TxGain

Test : 2003-11-24 20:05:08 H

Reference: 2003-06-12 14:10:32 V

Test : 2003-11-24 20:06:28 V

Reference: 2001-02-09 13:50:42 H TxPhase

Test : 2003-11-24 20:05:08 H

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

Test : 2003-11-24 20:05:08 H

No unavailabilities during the reported period.

