

REPORT OF 040114

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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 anomaly observed on available browse products.

2.3 - Data Analysis

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 any malfunctioning modules and to identify modules for which calibration offsets are to be applied.

No anomalies observed on available MS products:

- ASA_MS__0PNPDK20040113_202712_000000152023_00214_09787_0139.N1
- ASA_MS__0PNPDK20040113_202832_000000152023_00214_09787_0138.N1

Polarisation	Start Time
V	20040113 202832
H	20040113 202712

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	-3.71100	-22.5392	-8.16664
	stdev	0.00705460	0.0759789	0.00330989

24	mean	-5.06422	-21.1391	-8.16664
	stdev	0.0122548	0.0651850	0.00330989



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.74931	-22.5478	-8.15793
	stdev	0.0877350	0.0694995	0.00384979
24	mean	-5.21756	-21.1749	-8.15793
	stdev	0.569768	0.0625383	0.00384979



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	0.000432130
	stdev	3.01462e-07
MEAN Q	mean	0.000303405
	stdev	3.66186e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115539
	stdev	0.00139529

STDEV Q	mean	0.115781
	stdev	0.00140989



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

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

6.1 - Unbiased Doppler Error

Evolution of unbiased Doppler error (Real - Expected)

Ascending
Descending

6.2 - Absolute Doppler

Evolution of Absolute Doppler

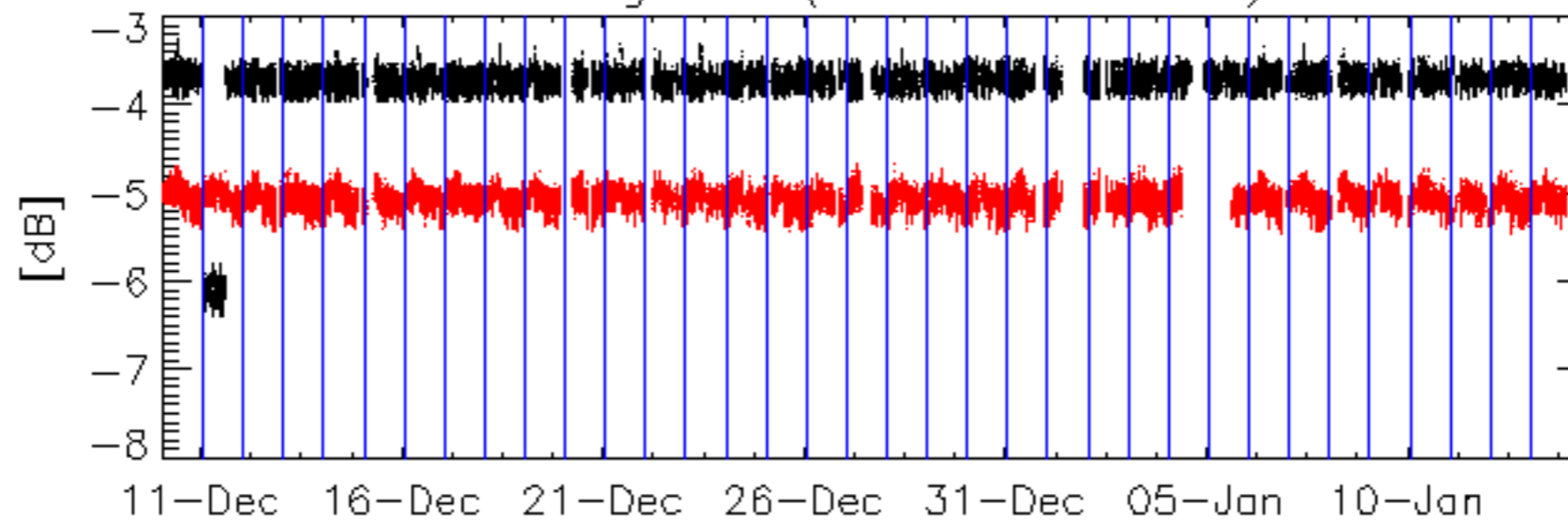
Ascending
Descending

6.3 - Doppler evolution versus ANX

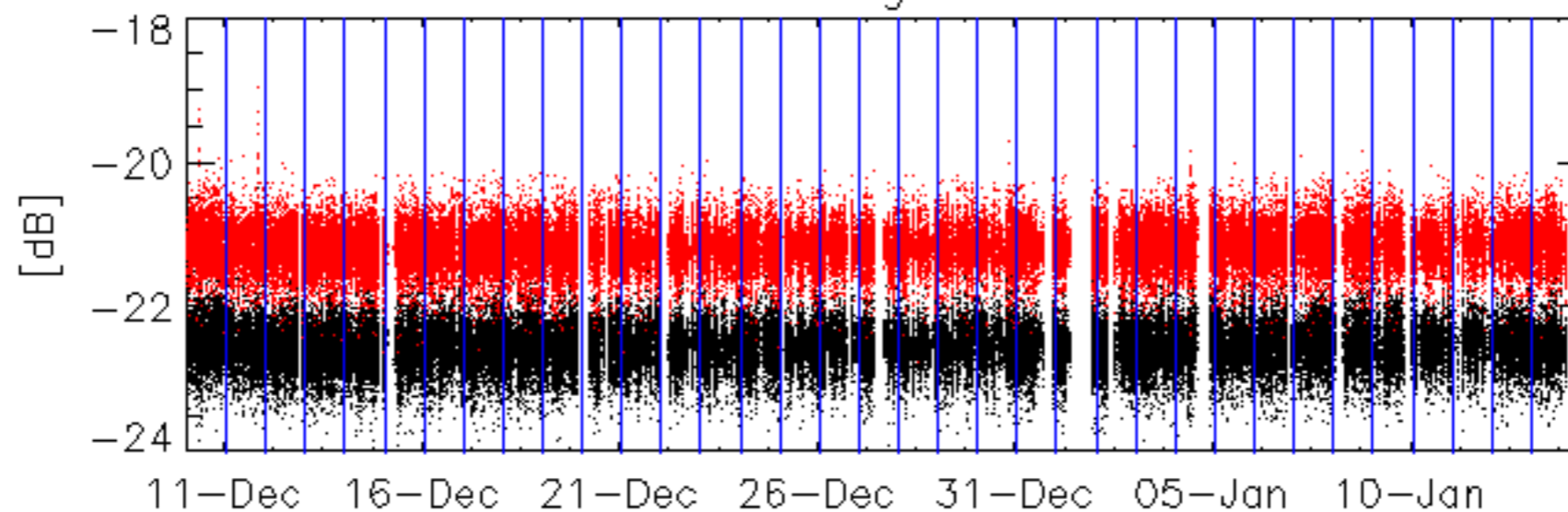
Evolution Doppler error versus ANX



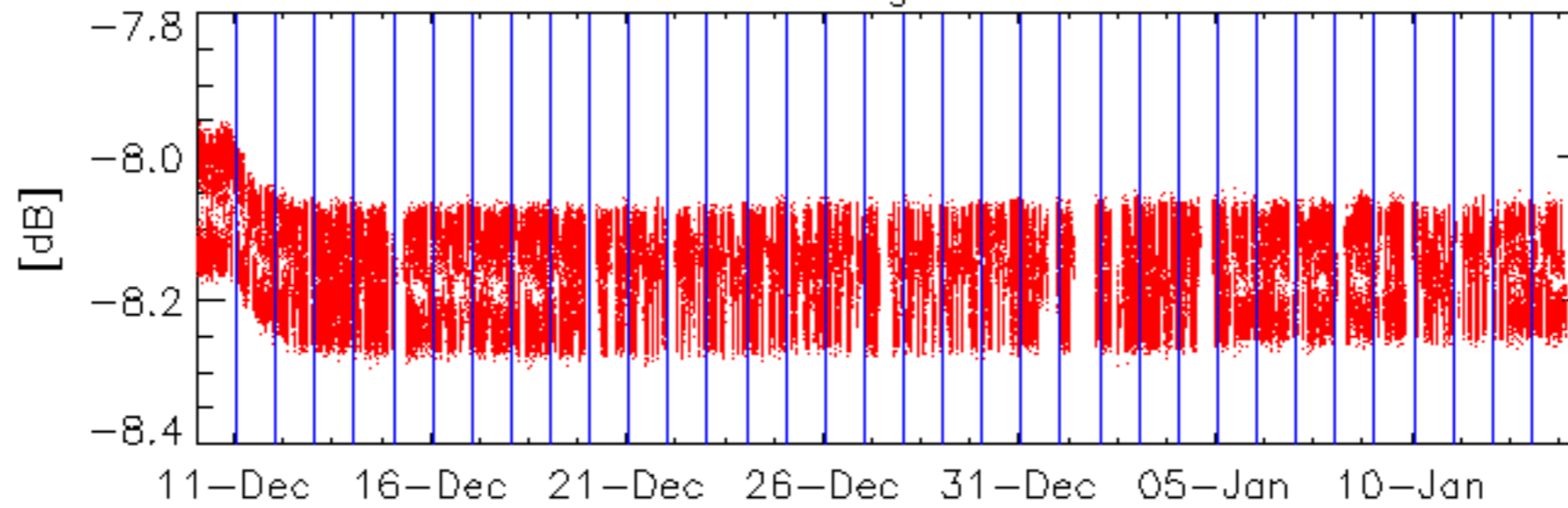
Average P1 (row 3 & row 24)



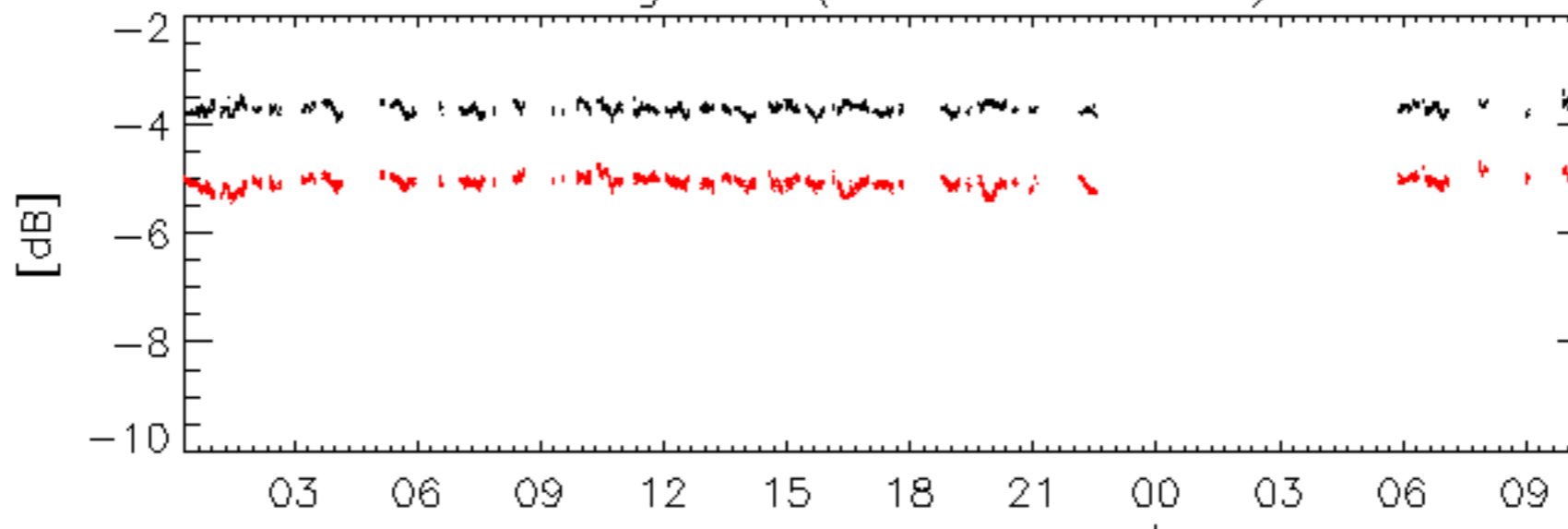
Average P2



Average P3

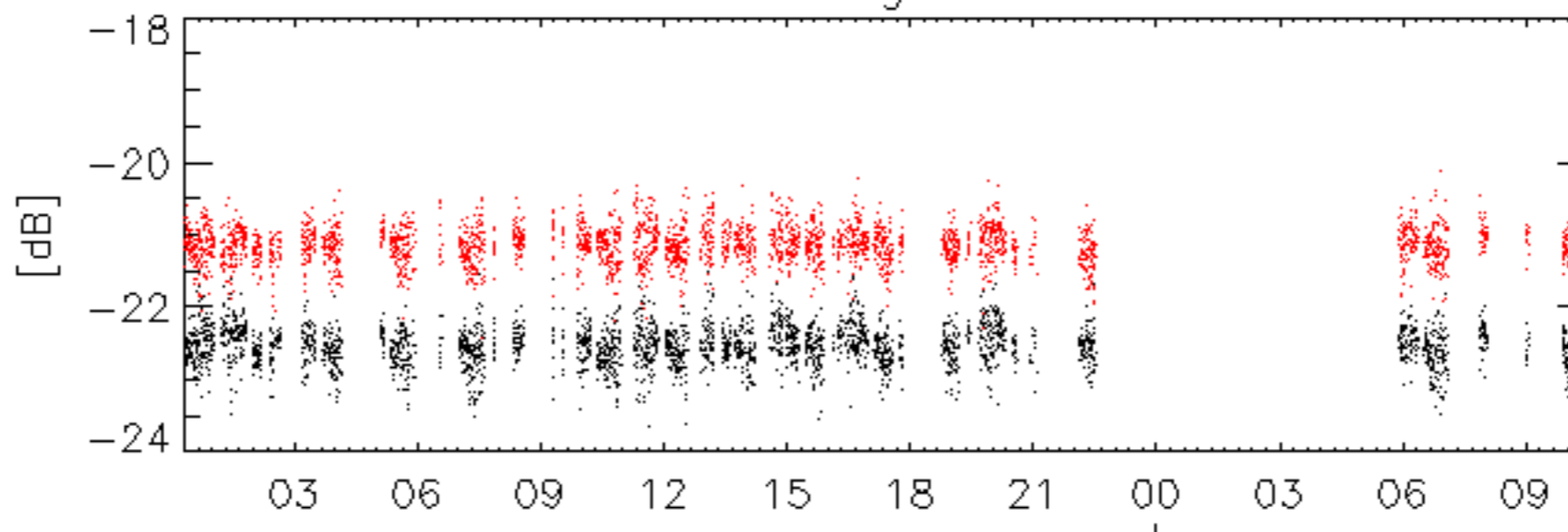


Average P1 (row 3 & row 24)



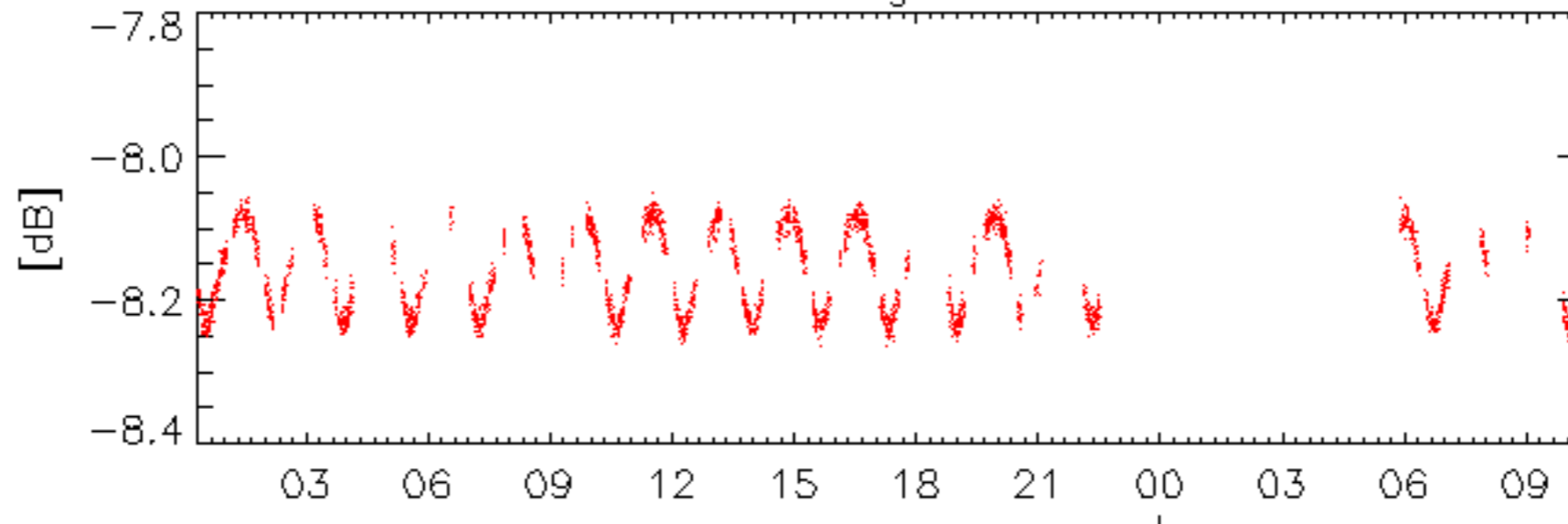
14-Jan

Average P2



14-Jan

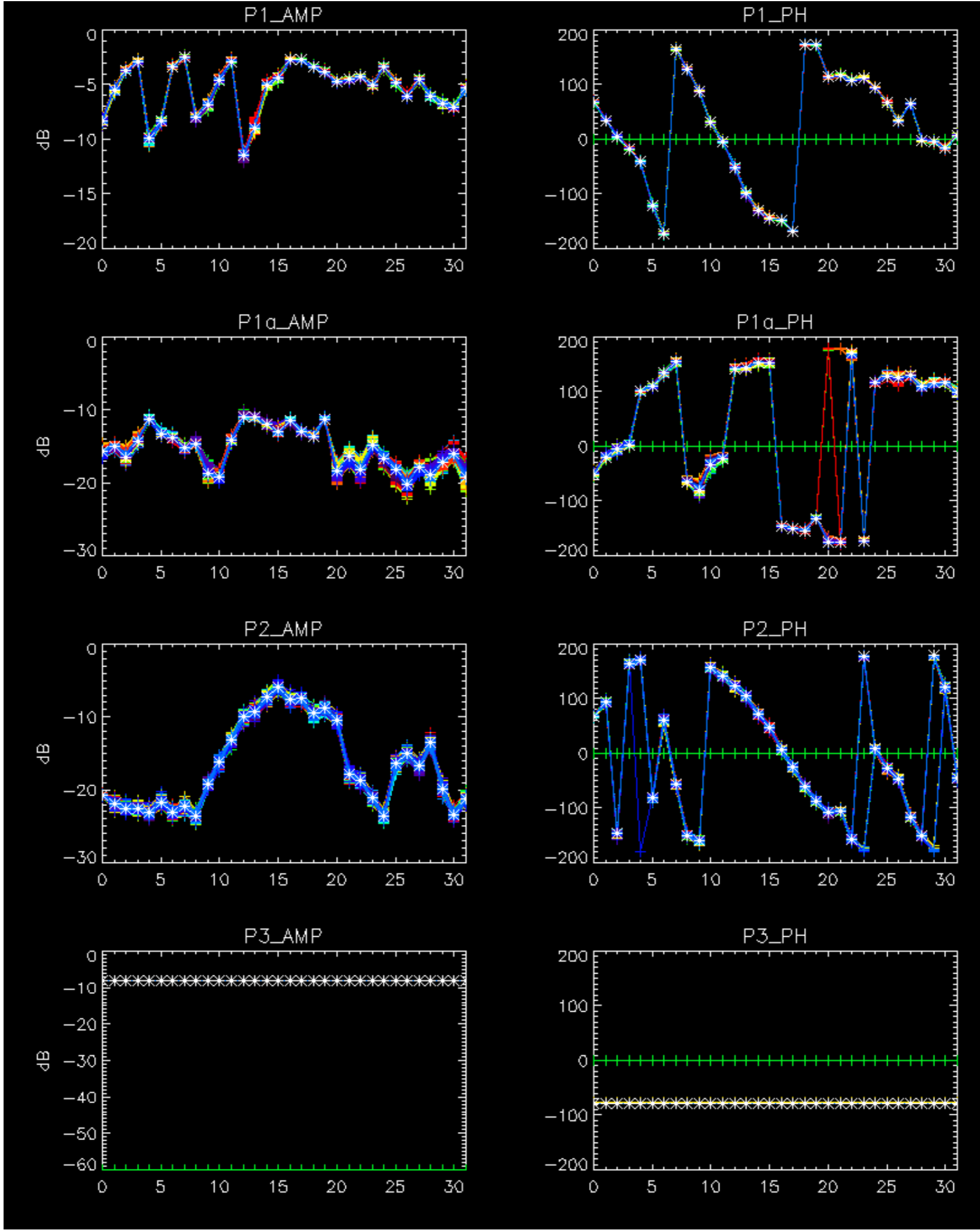
Average P3



14-Jan

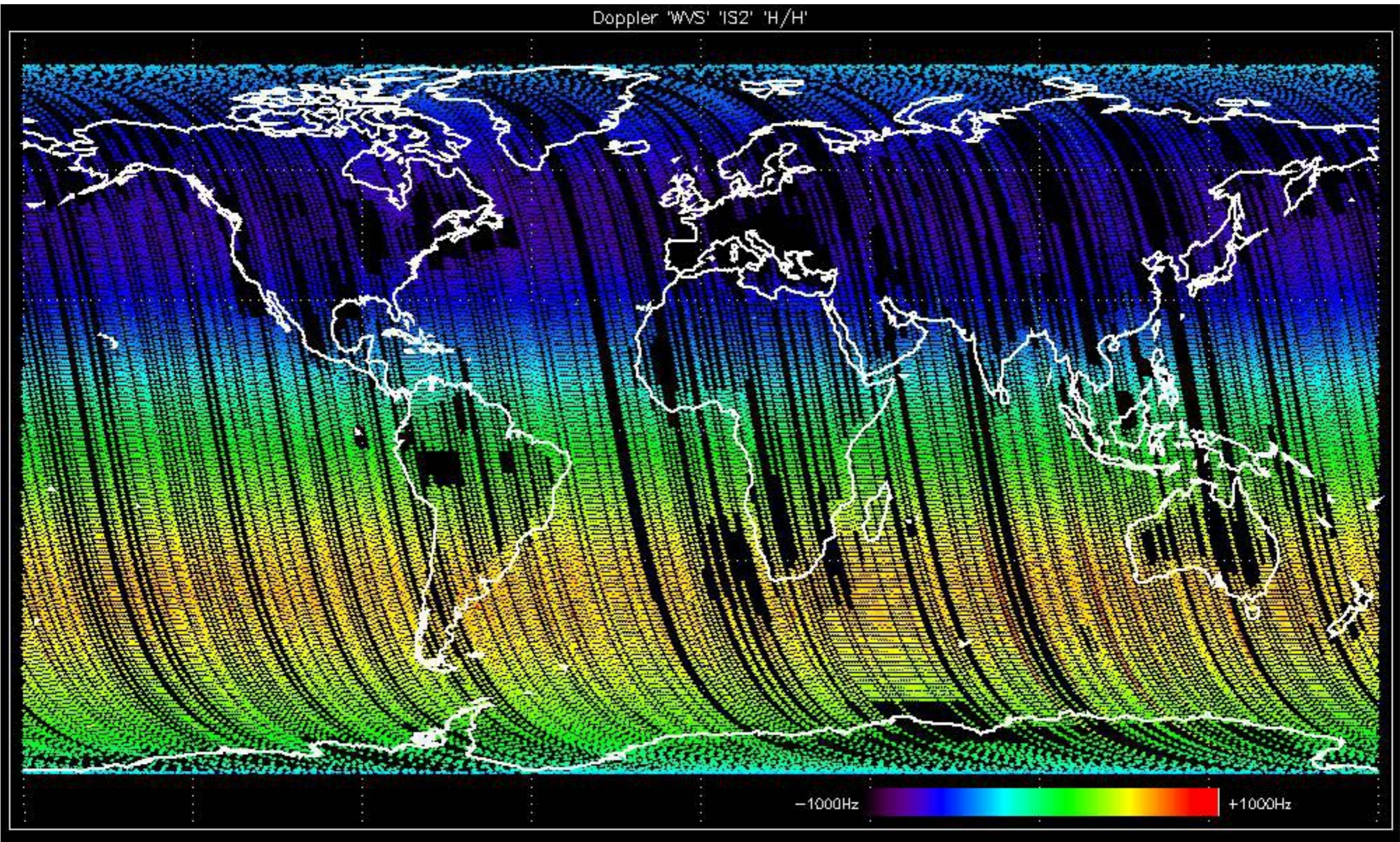
No anomaly observed on available browse products.

No anomalies observed.

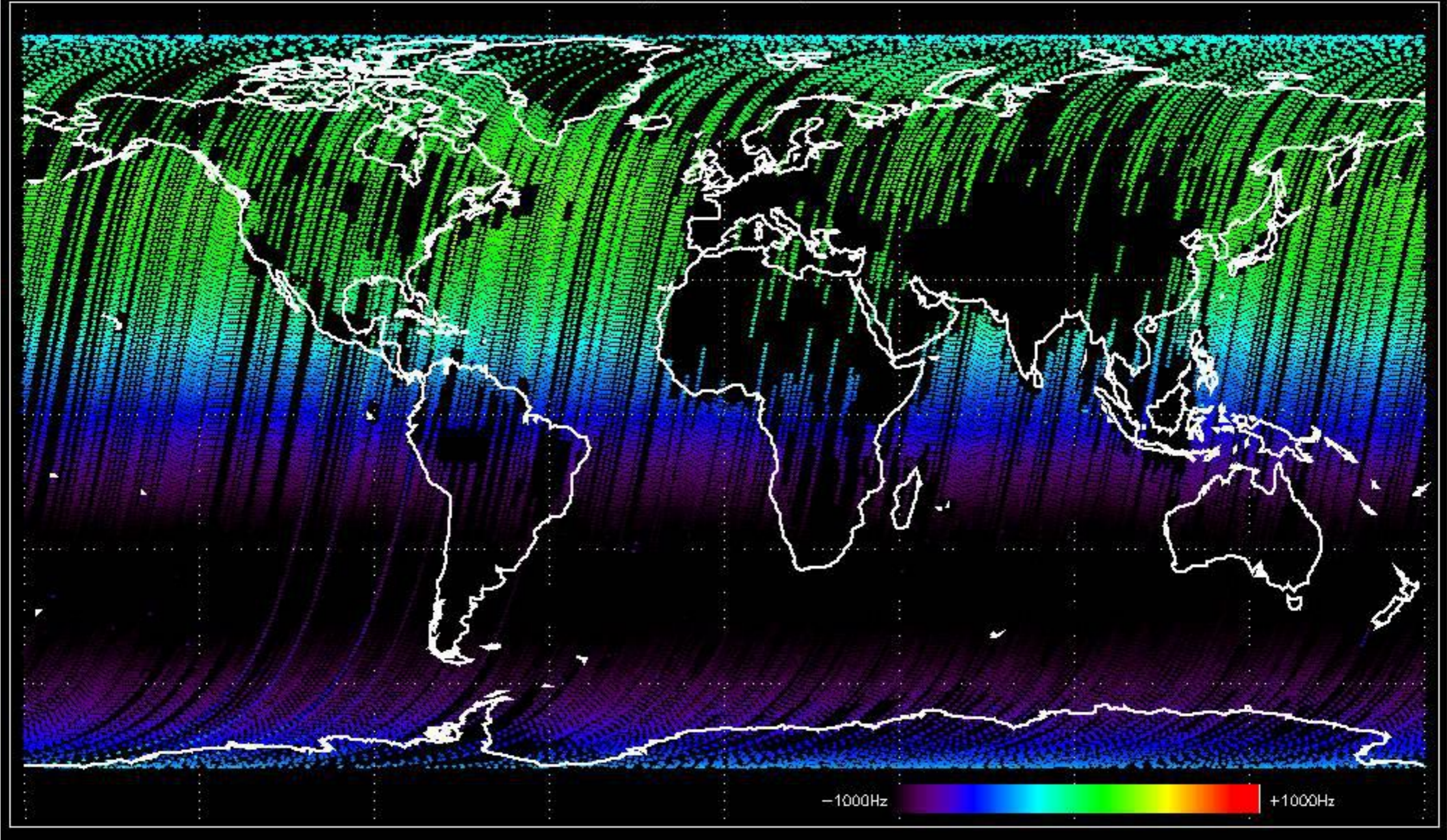


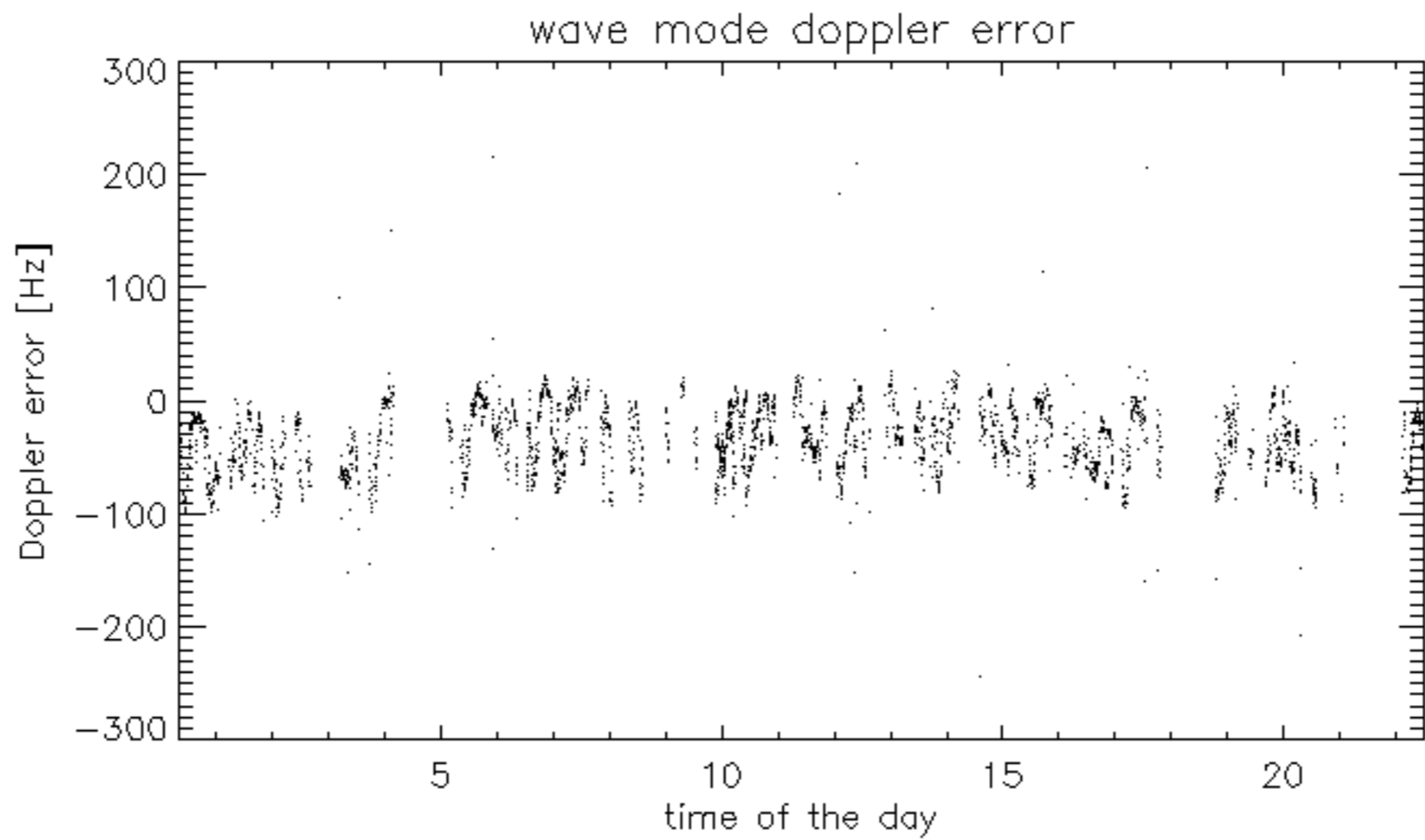
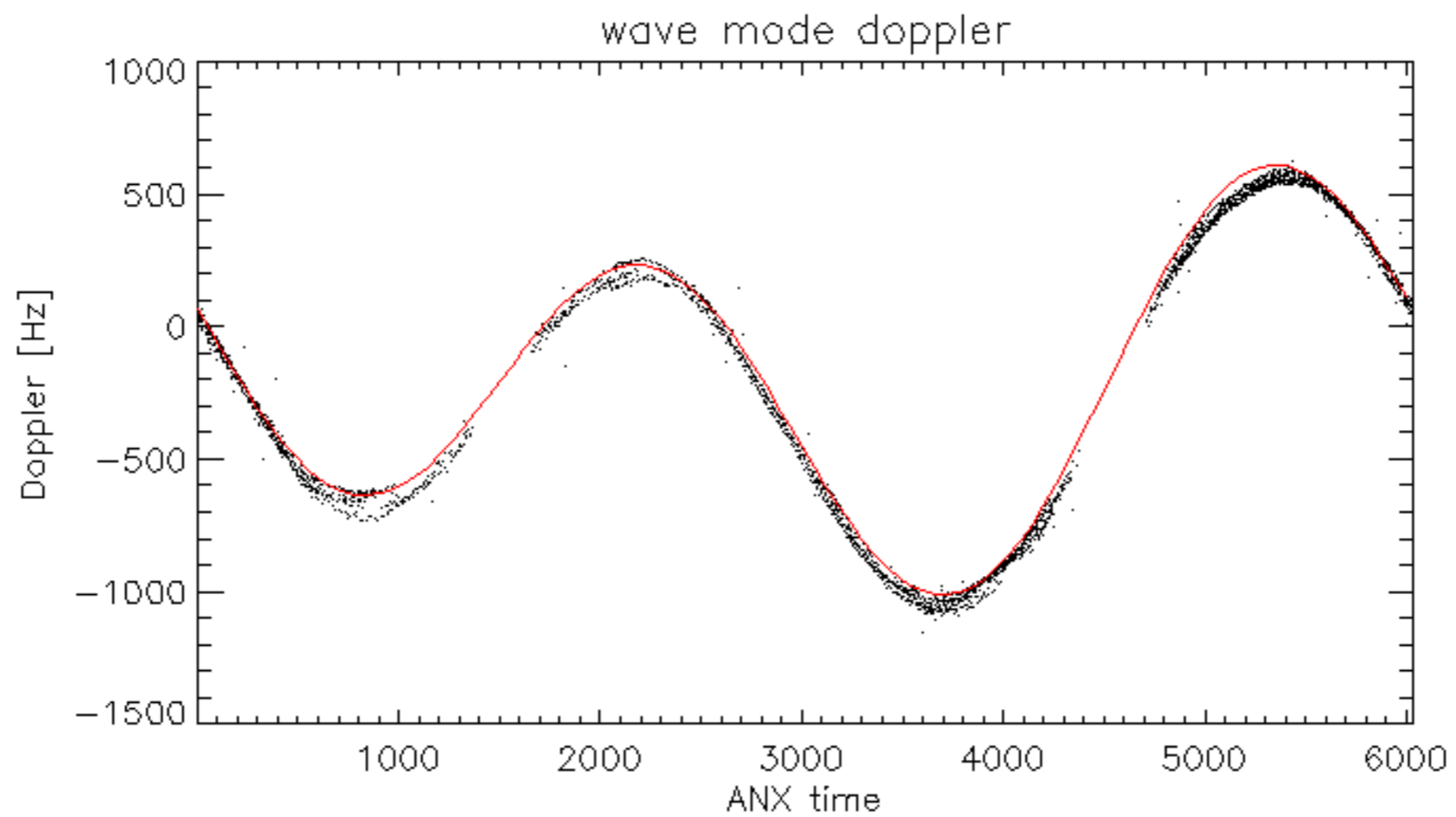
No anomalies observed in Doppler evolution.
Doppler analysis performed over the last 35 days.

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

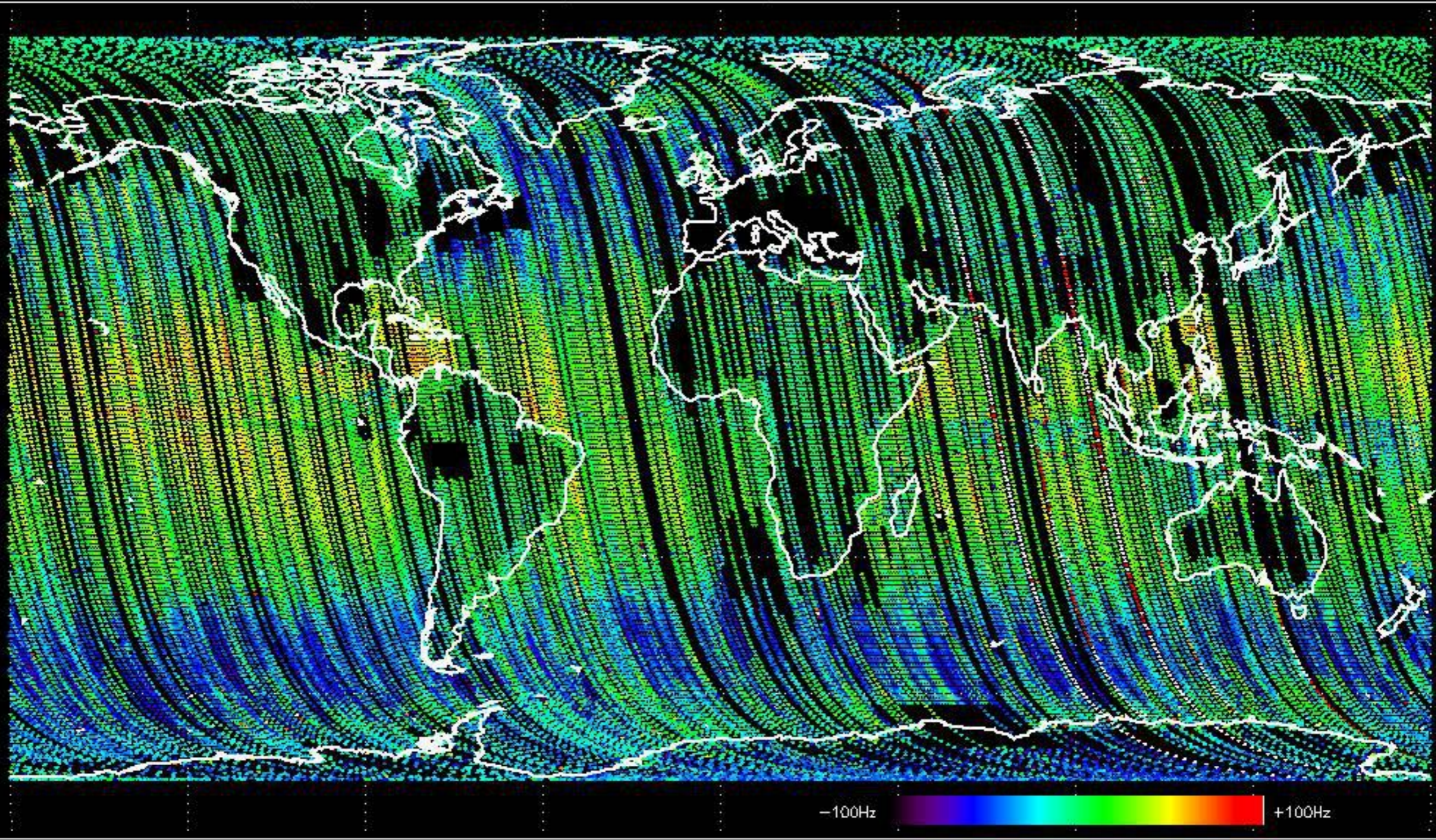


Doppler 'WVS' 'IS2' 'V/V'

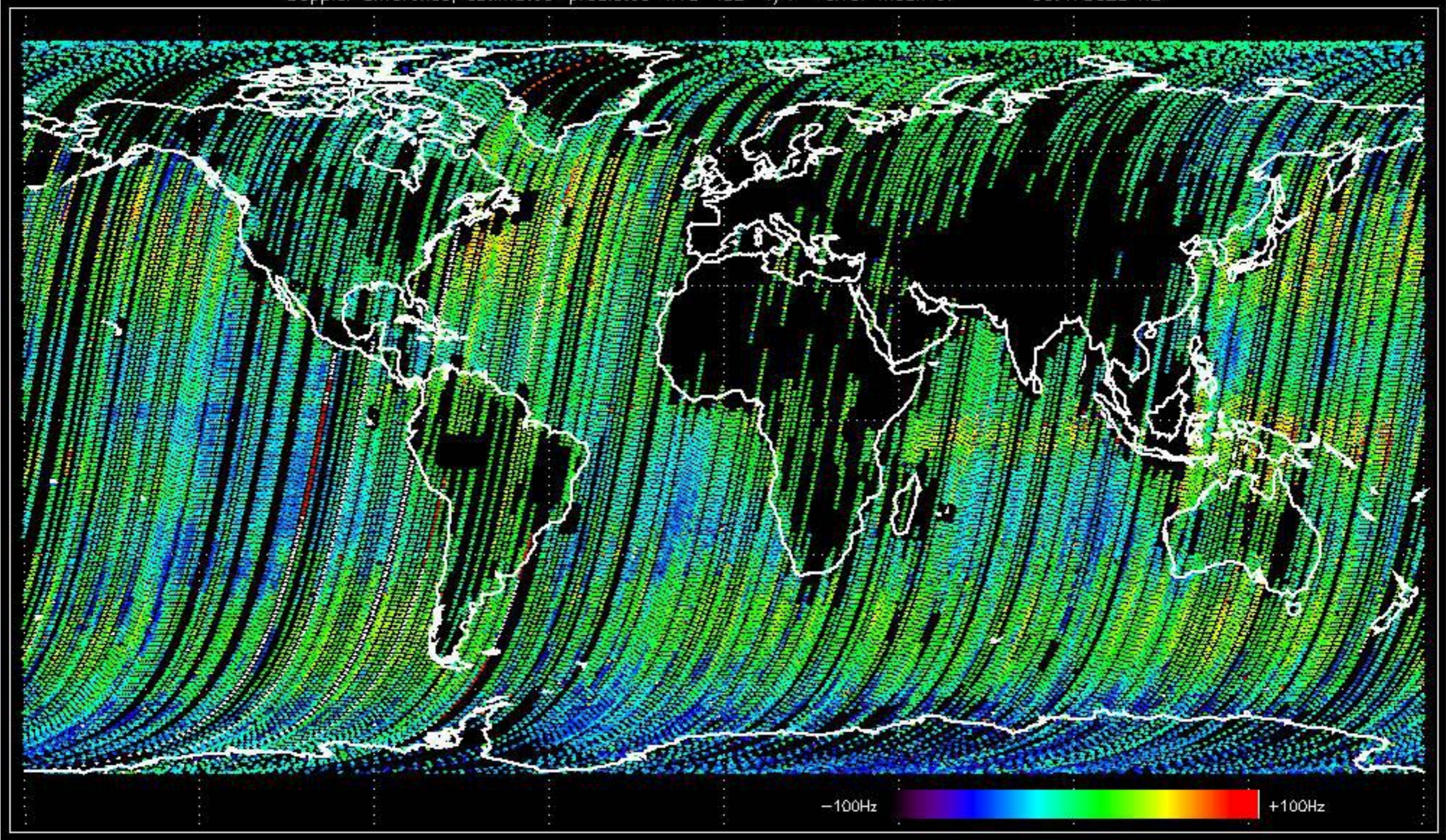




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -32.596577 Hz



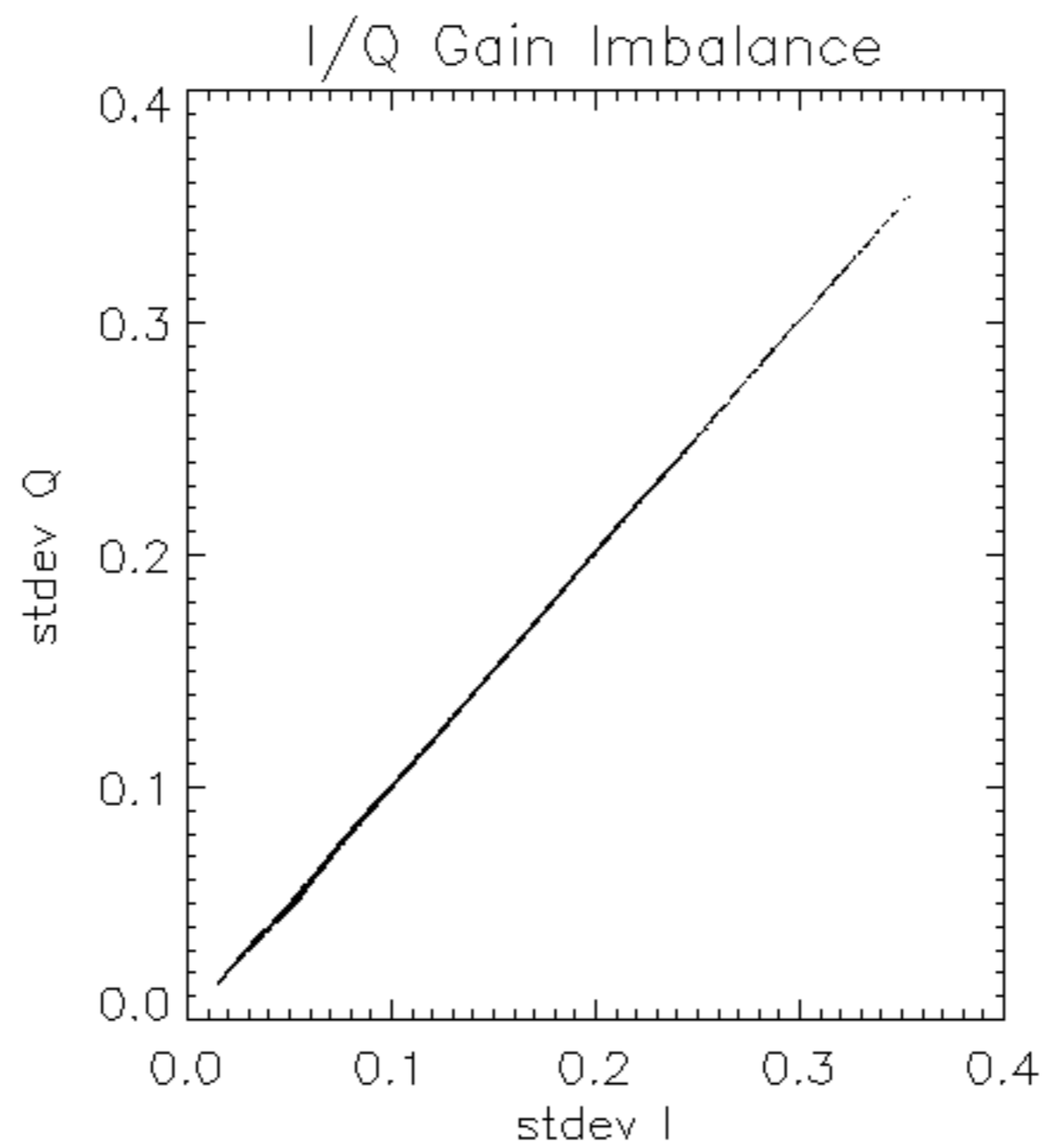
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -30.478023 Hz

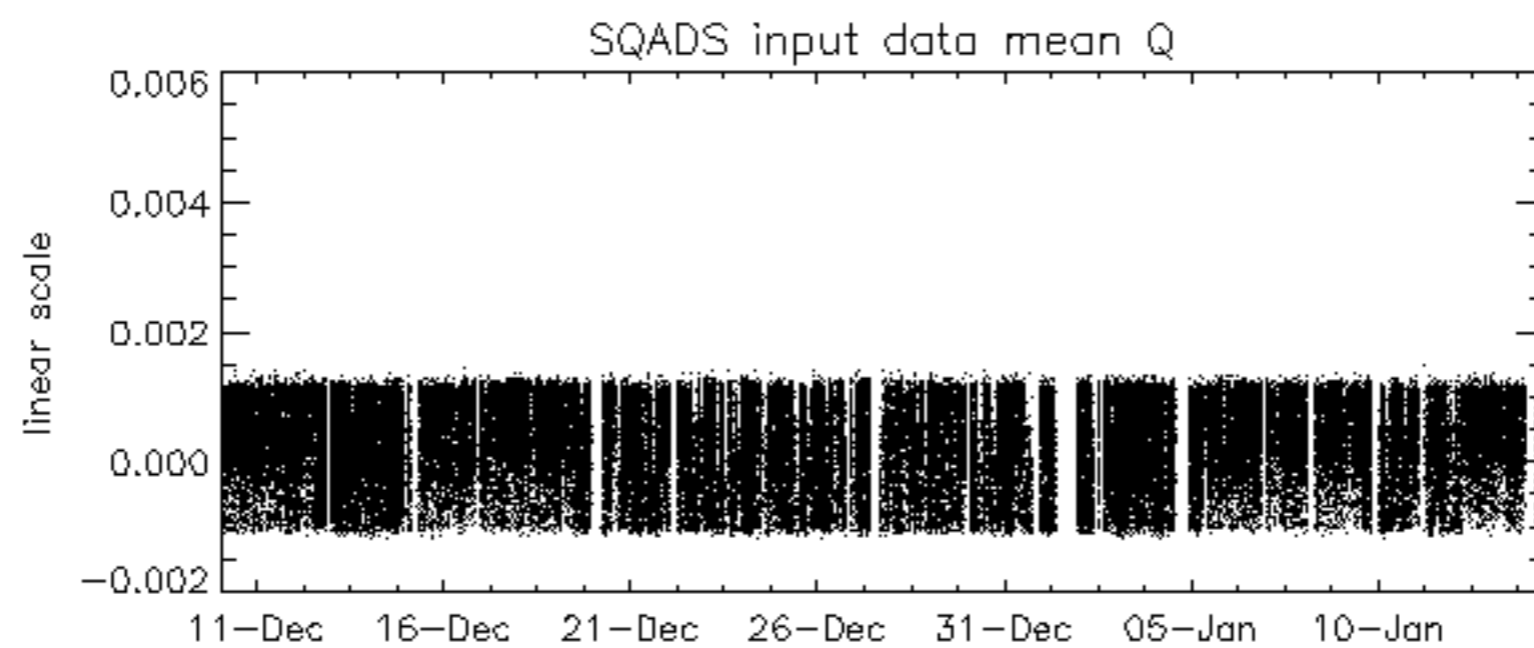
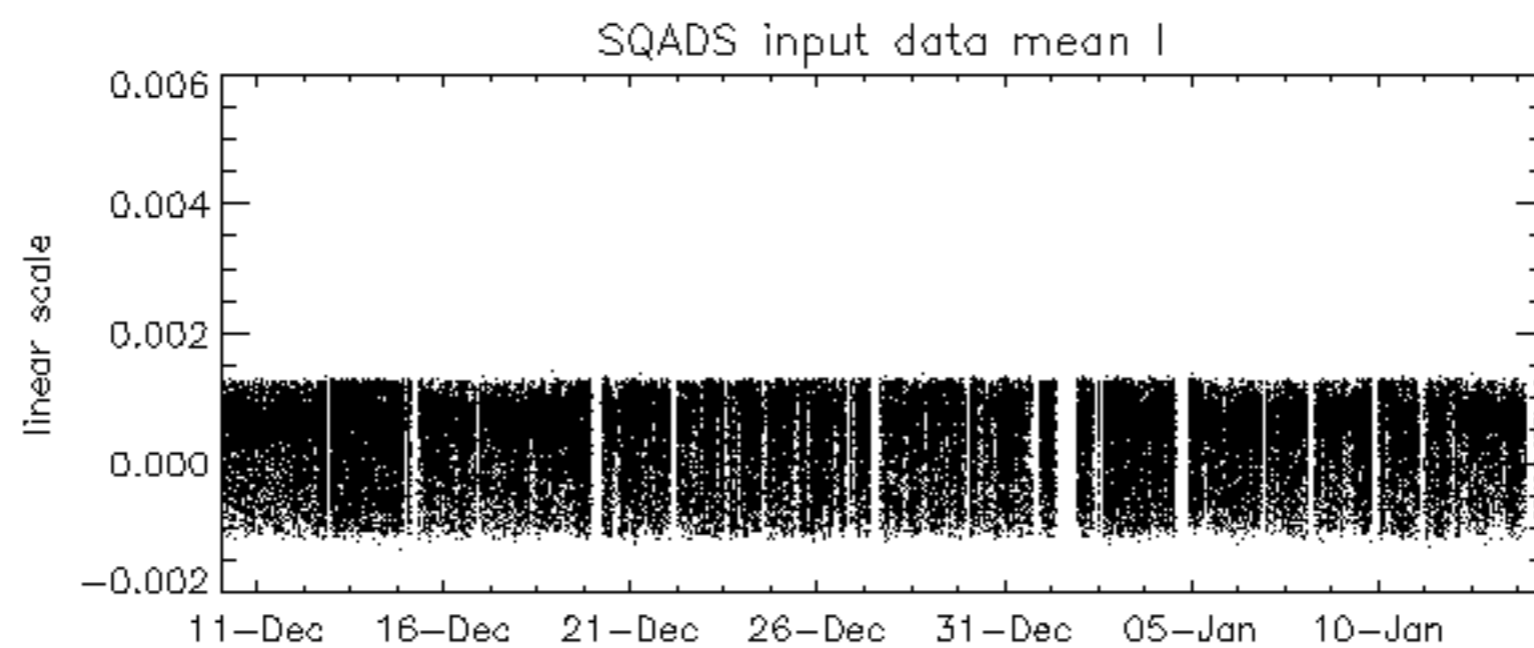
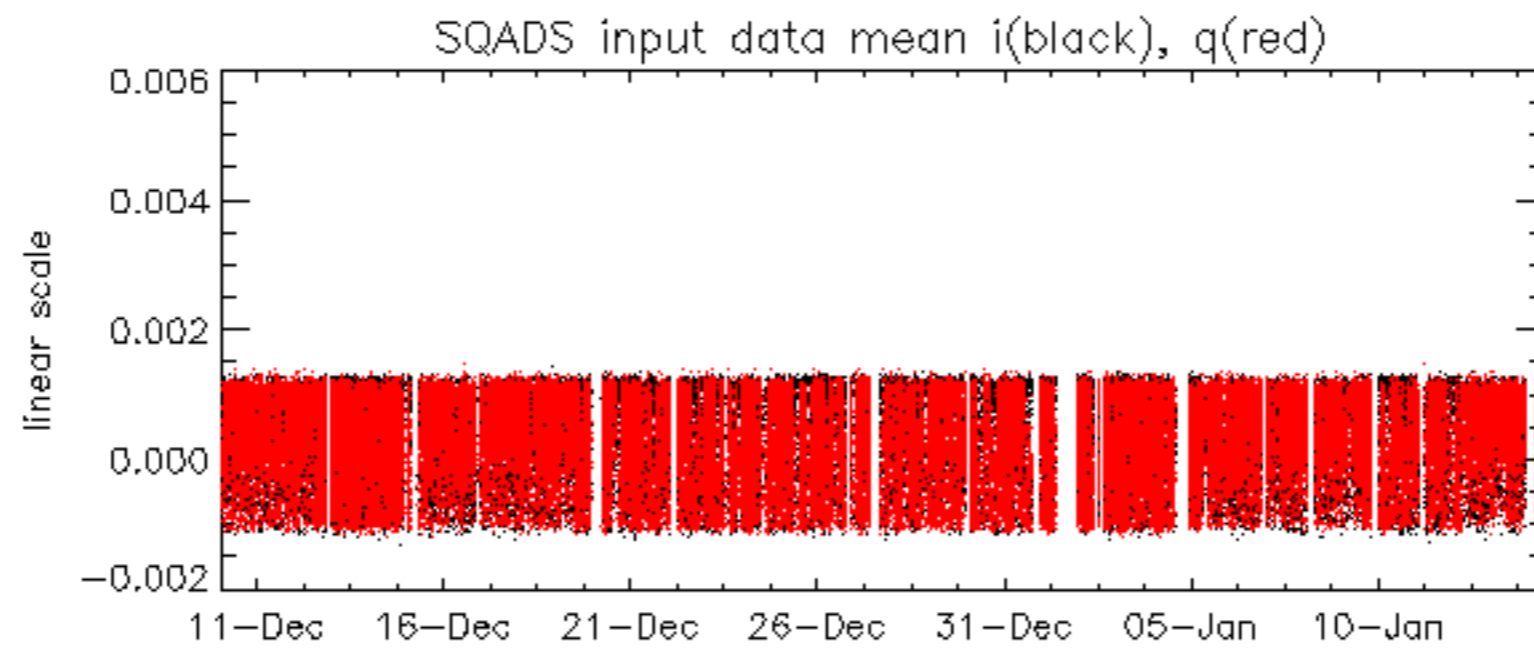


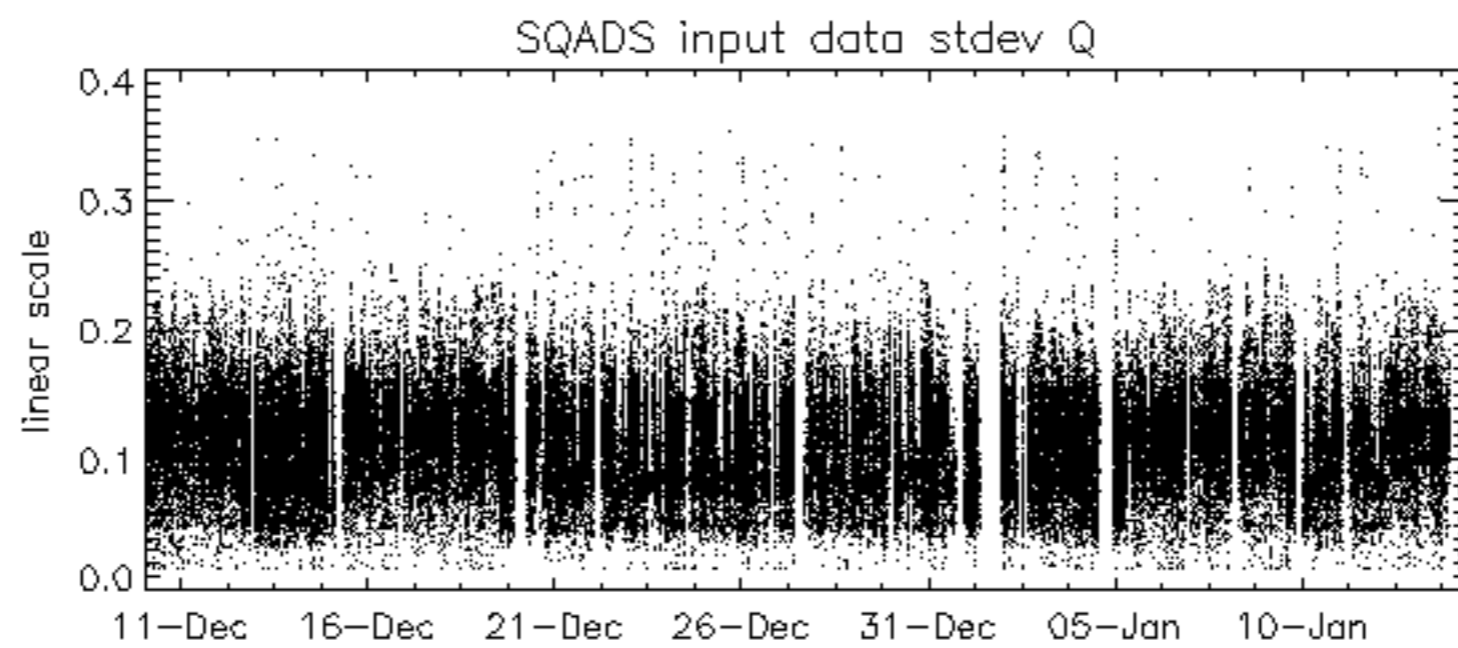
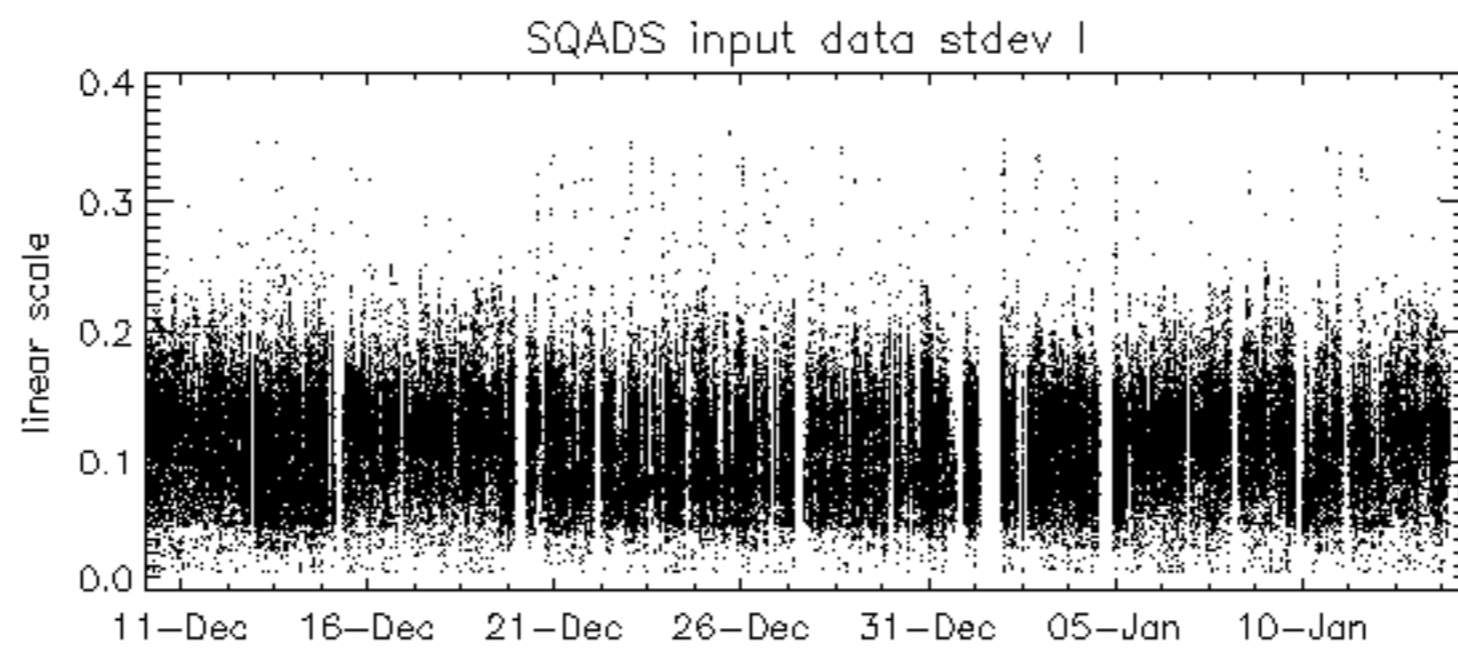
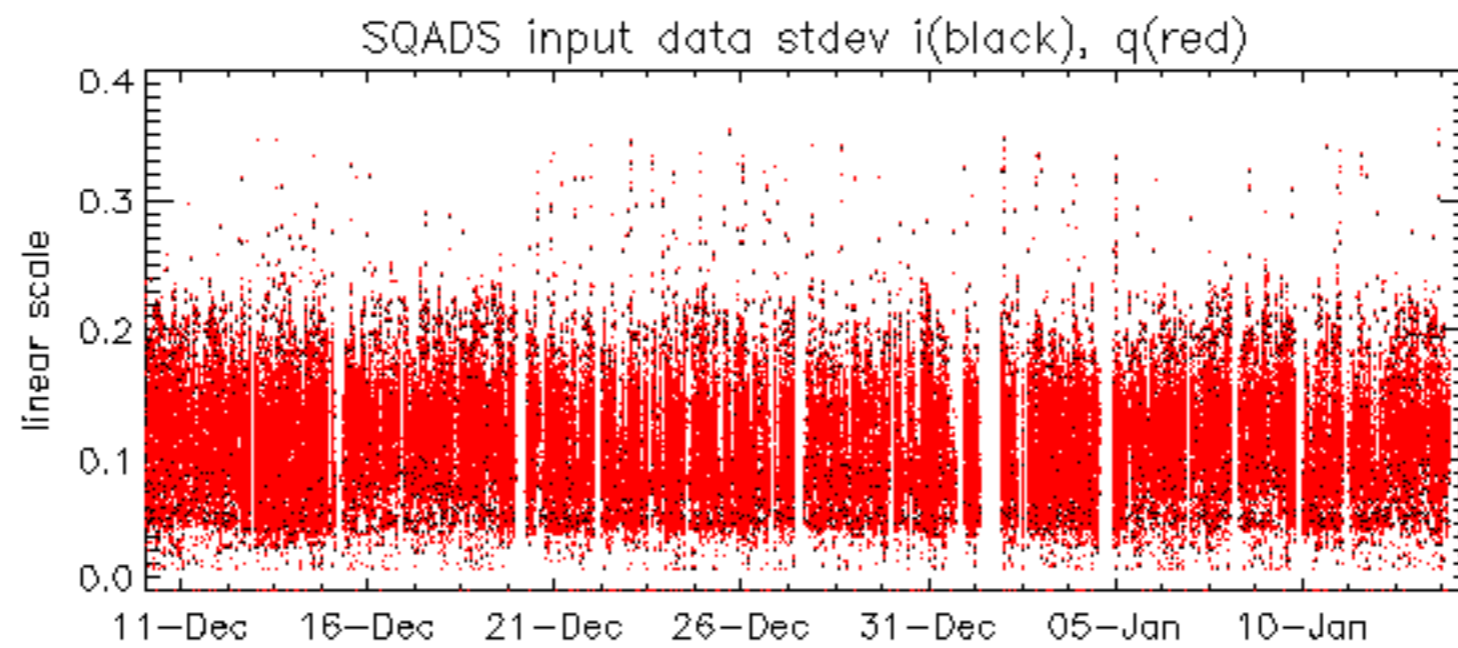
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No anomalies observed.







No unavailabilities during the reported period.