

REPORT OF 040302

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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 from 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

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__0PNPDK20040301_201834_000000152024_00400_10474_0243.N1

- ASA_MS__0PNPDK20040301_201954_000000152024_00400_10474_0244.N1

Polarisation	Start Time
V	20040301 201954
H	20040301 201834

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
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3	mean	-3.62433	-22.4085	-8.13858
	stdev	0.00630890	0.0830487	0.00299863
24	mean	-5.07558	-21.0478	-8.13858
	stdev	0.0137825	0.0740640	0.00299863



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.64031	-22.3976	-8.13235
	stdev	0.00646687	0.0780769	0.00304350
24	mean	-5.10480	-21.0680	-8.13235
	stdev	0.0145129	0.0748275	0.00304350



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	0.000451190
	stdev	2.58709e-07
MEAN Q	mean	0.000433757
	stdev	2.98161e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
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STDEV I	mean	0.123383
	stdev	0.00123449
STDEV Q	mean	0.123612
	stdev	0.00124784



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

Preliminary report. The data is not yet controlled

6.1 - Unbiased Doppler Error

Evolution of unbiased Doppler error (Real - Expected)
Ascending
Descending

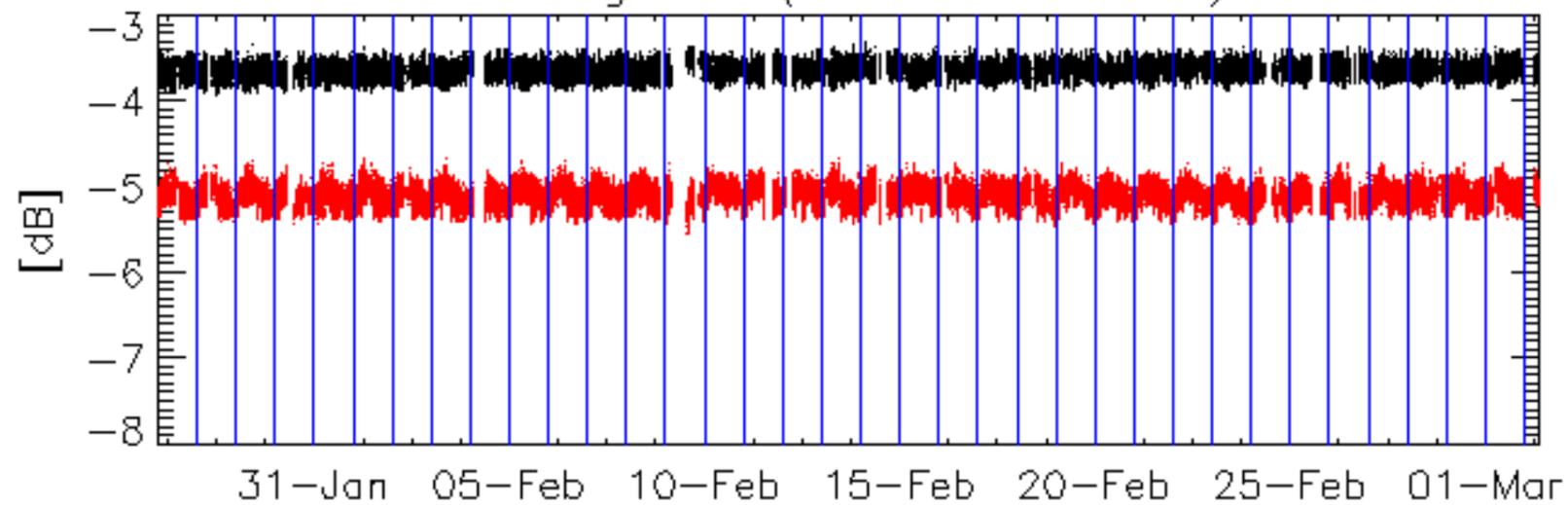
6.2 - Absolute Doppler

Evolution of Absolute Doppler
Ascending
Descending

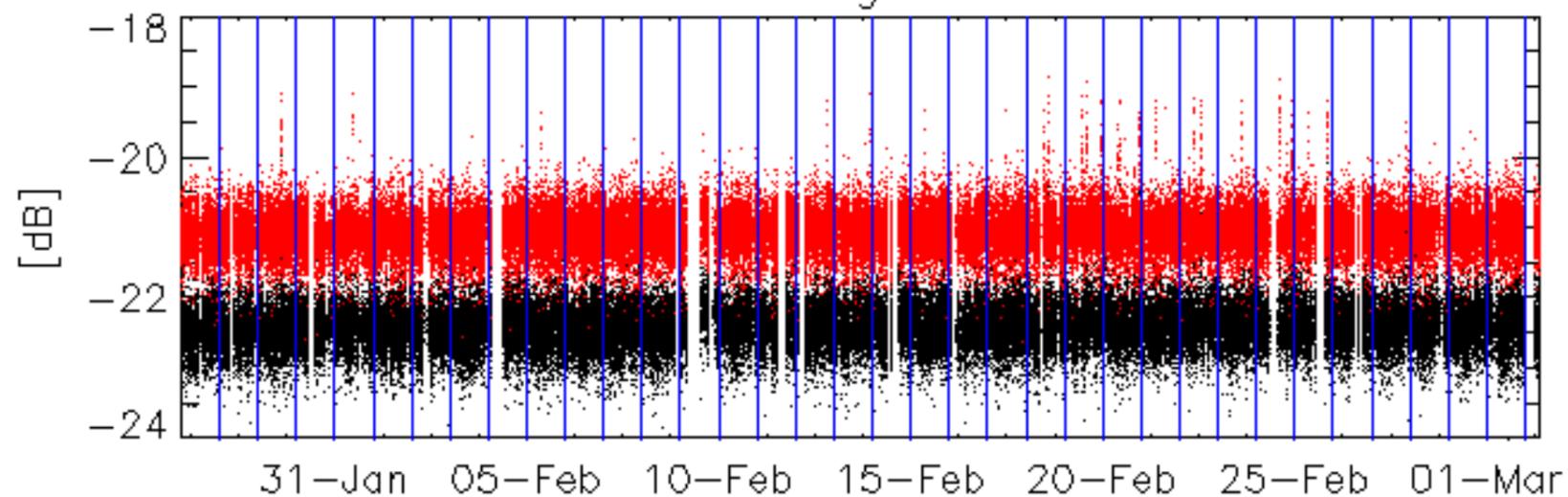
6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX

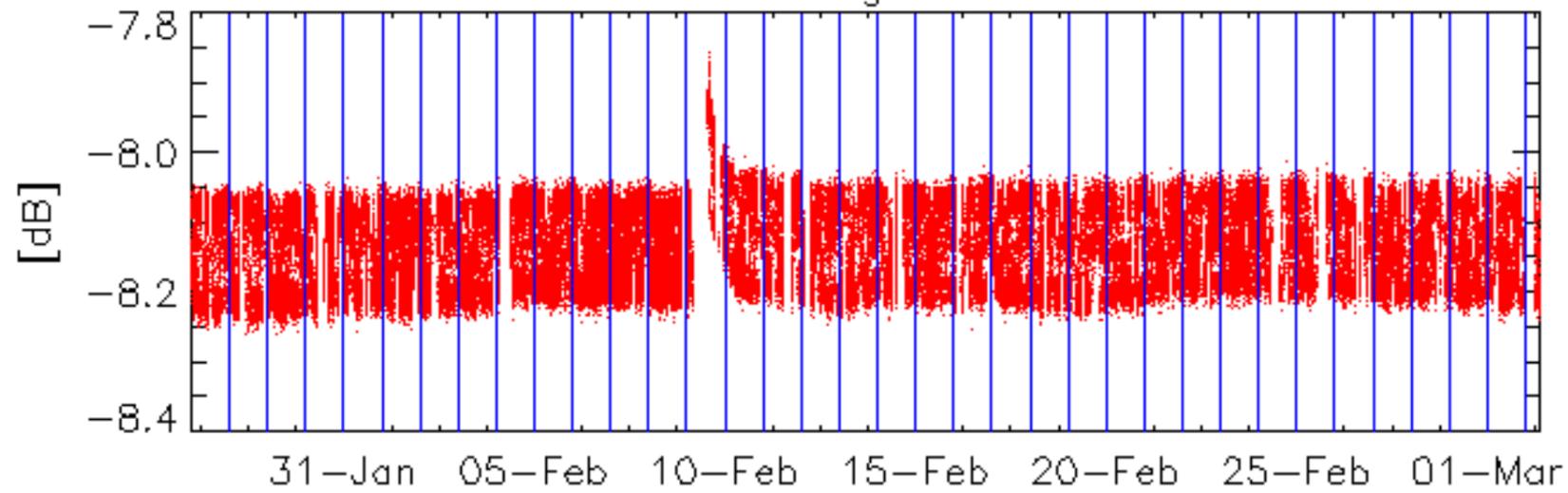

Average P1 (row 3 & row 24)

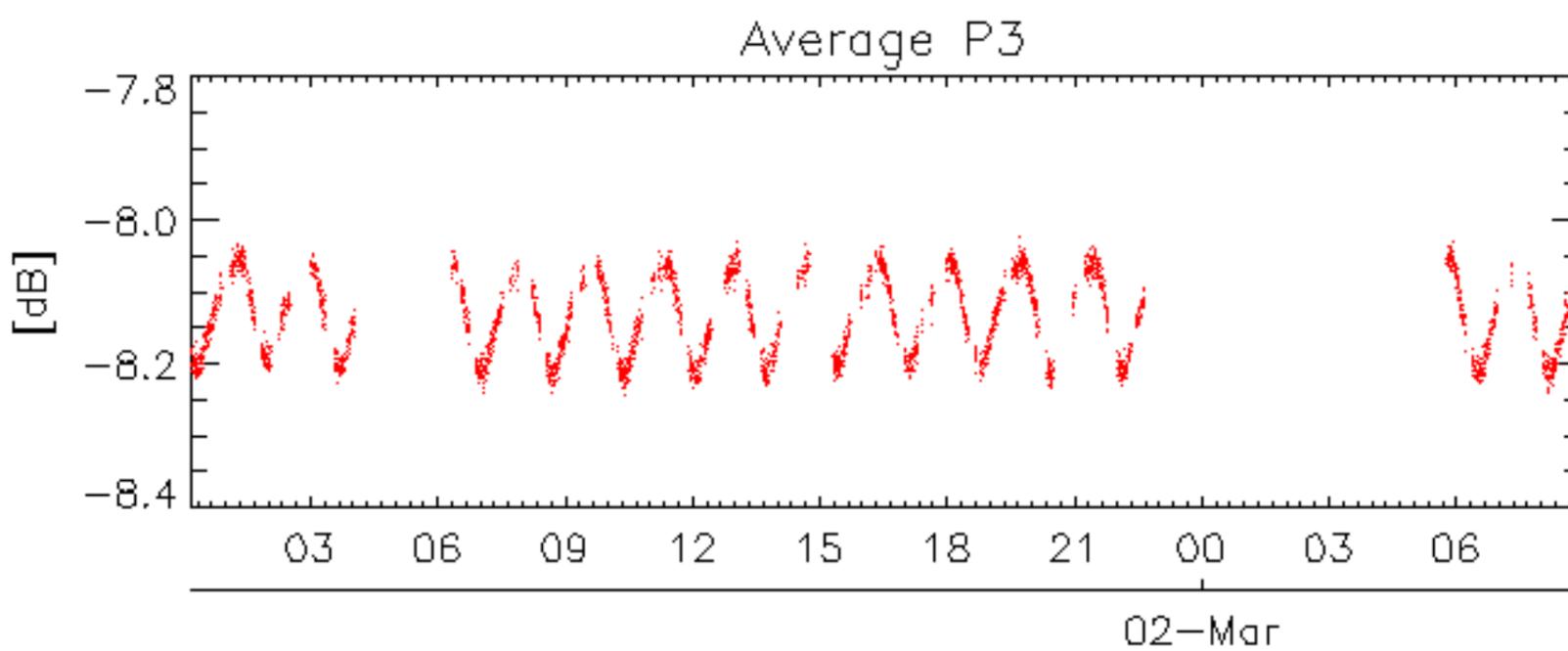
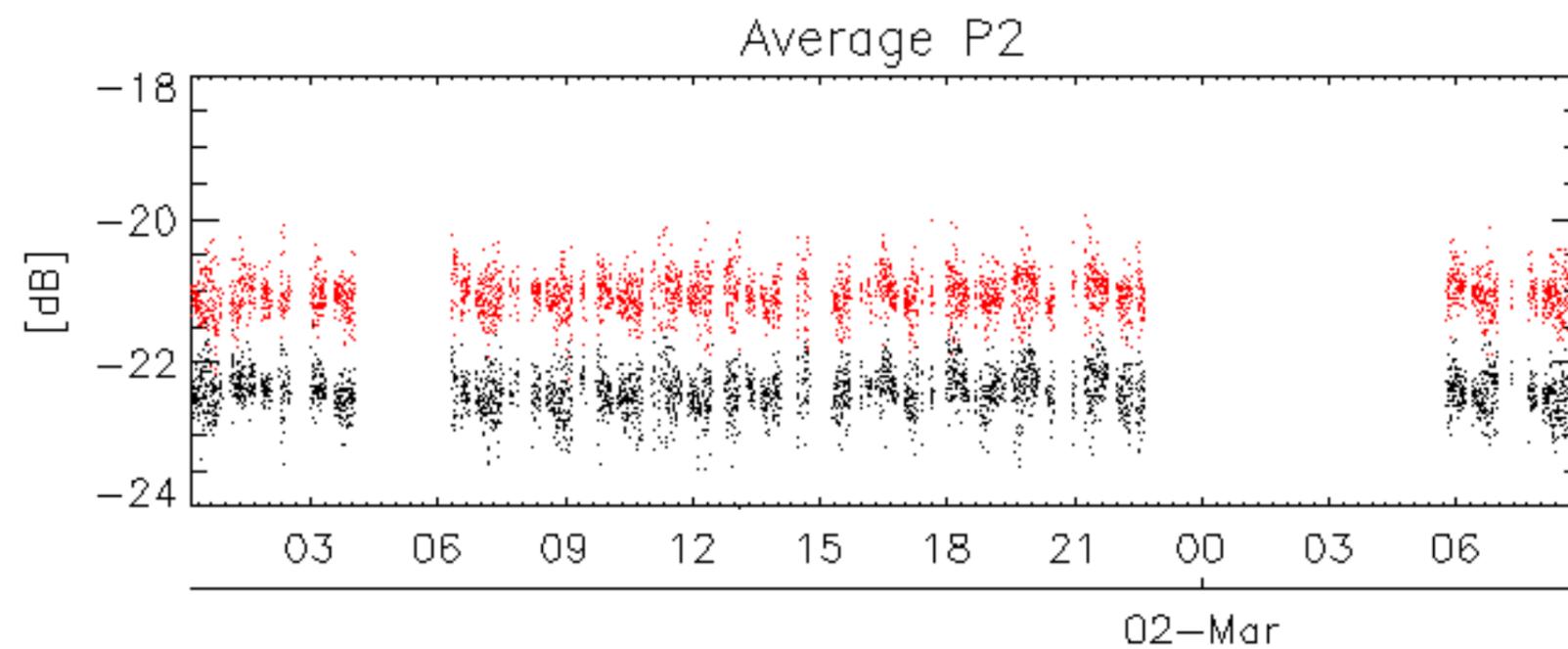
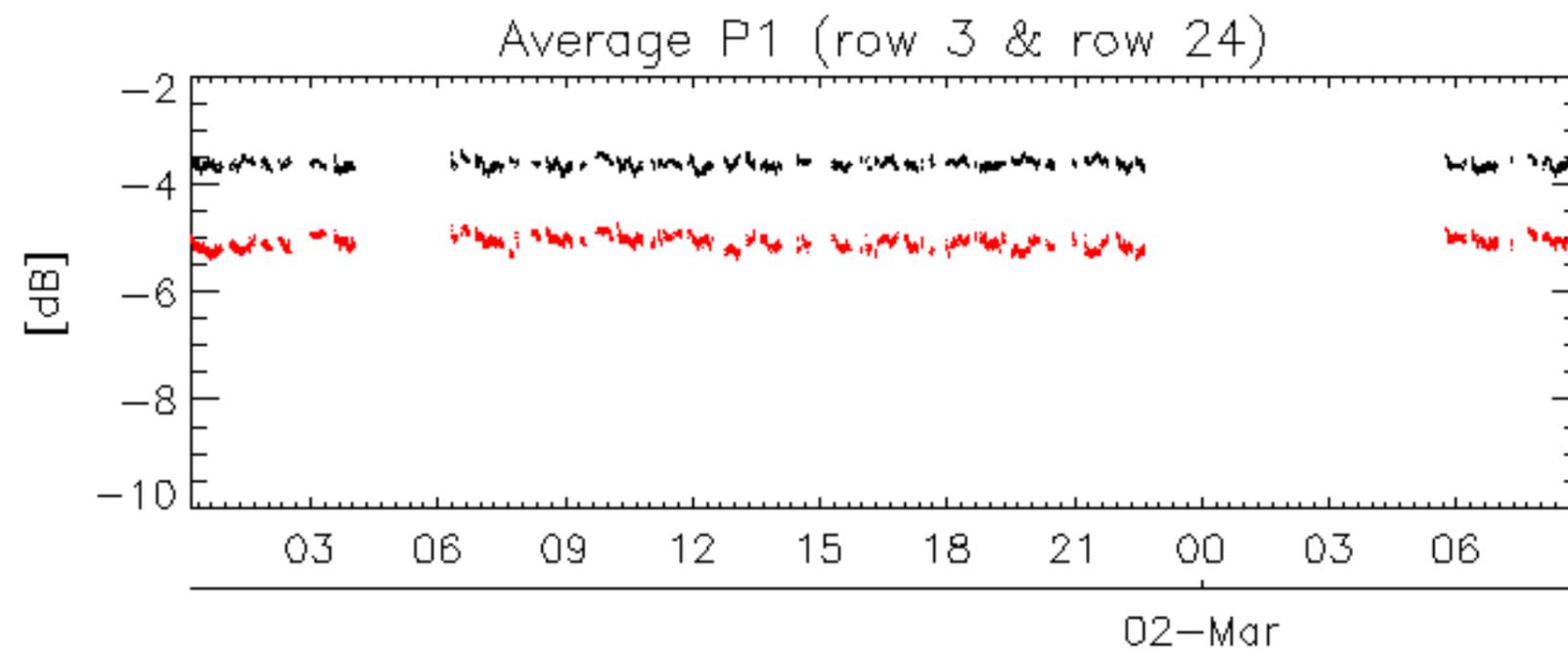


Average P2



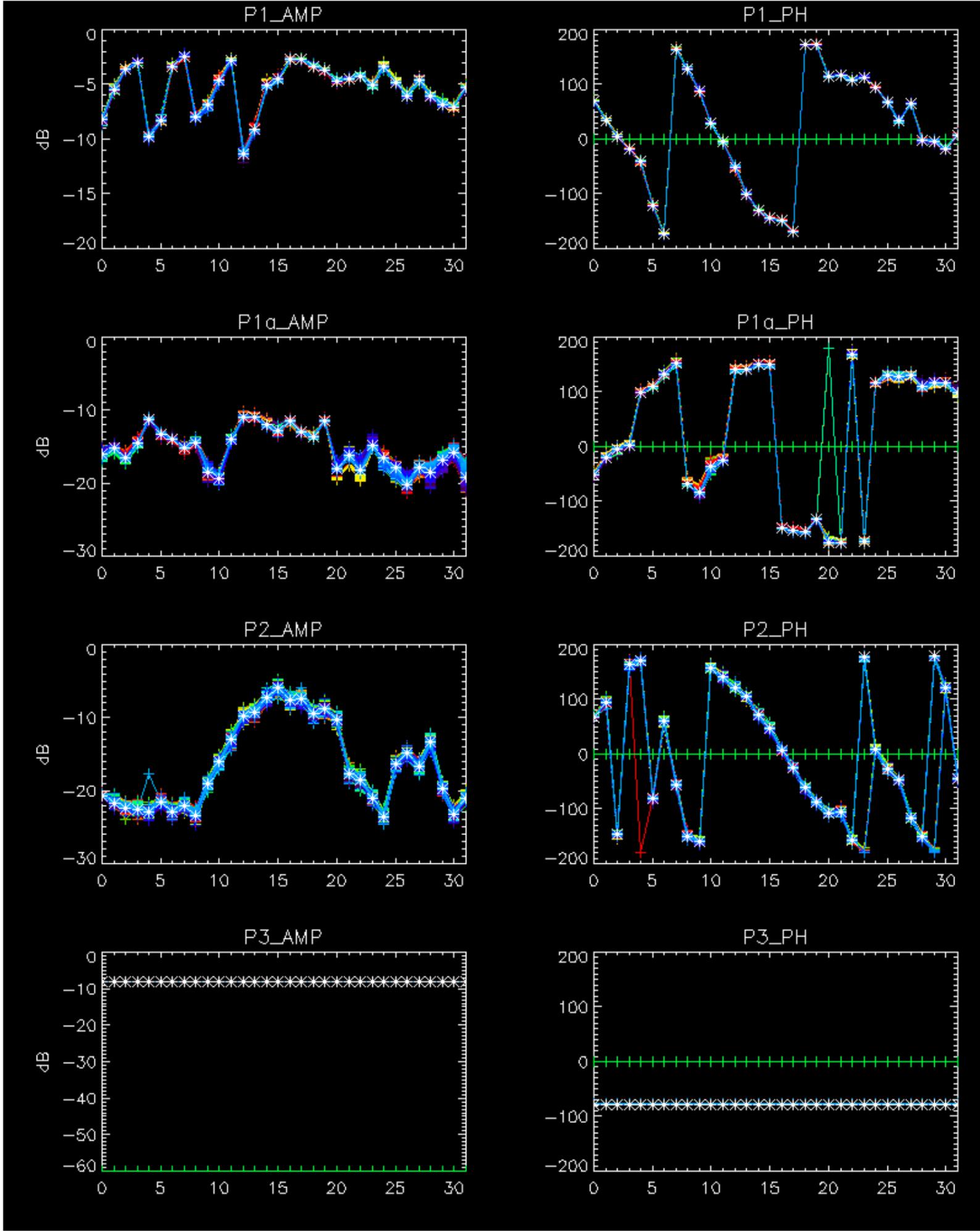
Average P3





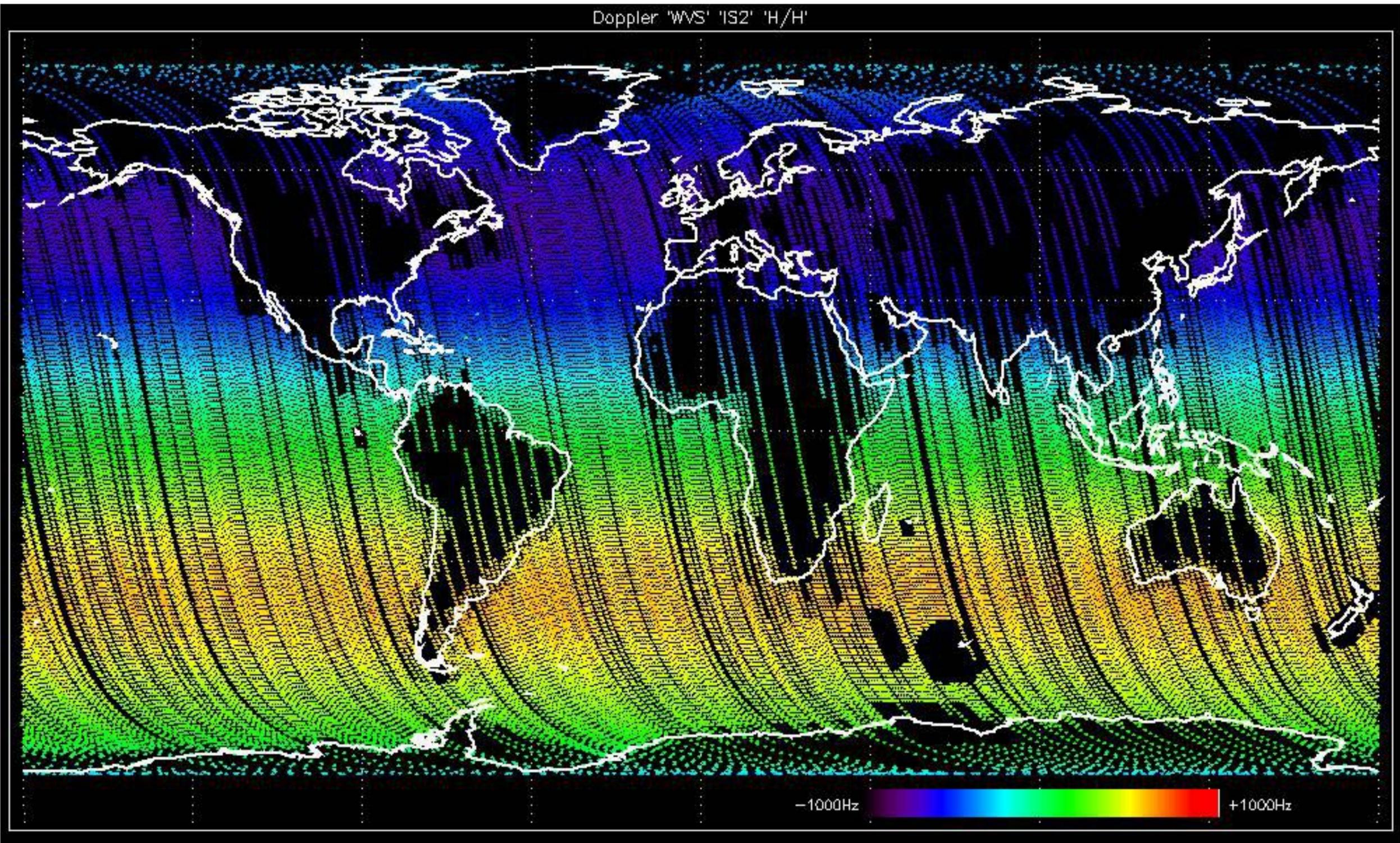
No anomalies observed from available browse products.

No anomalies observed.

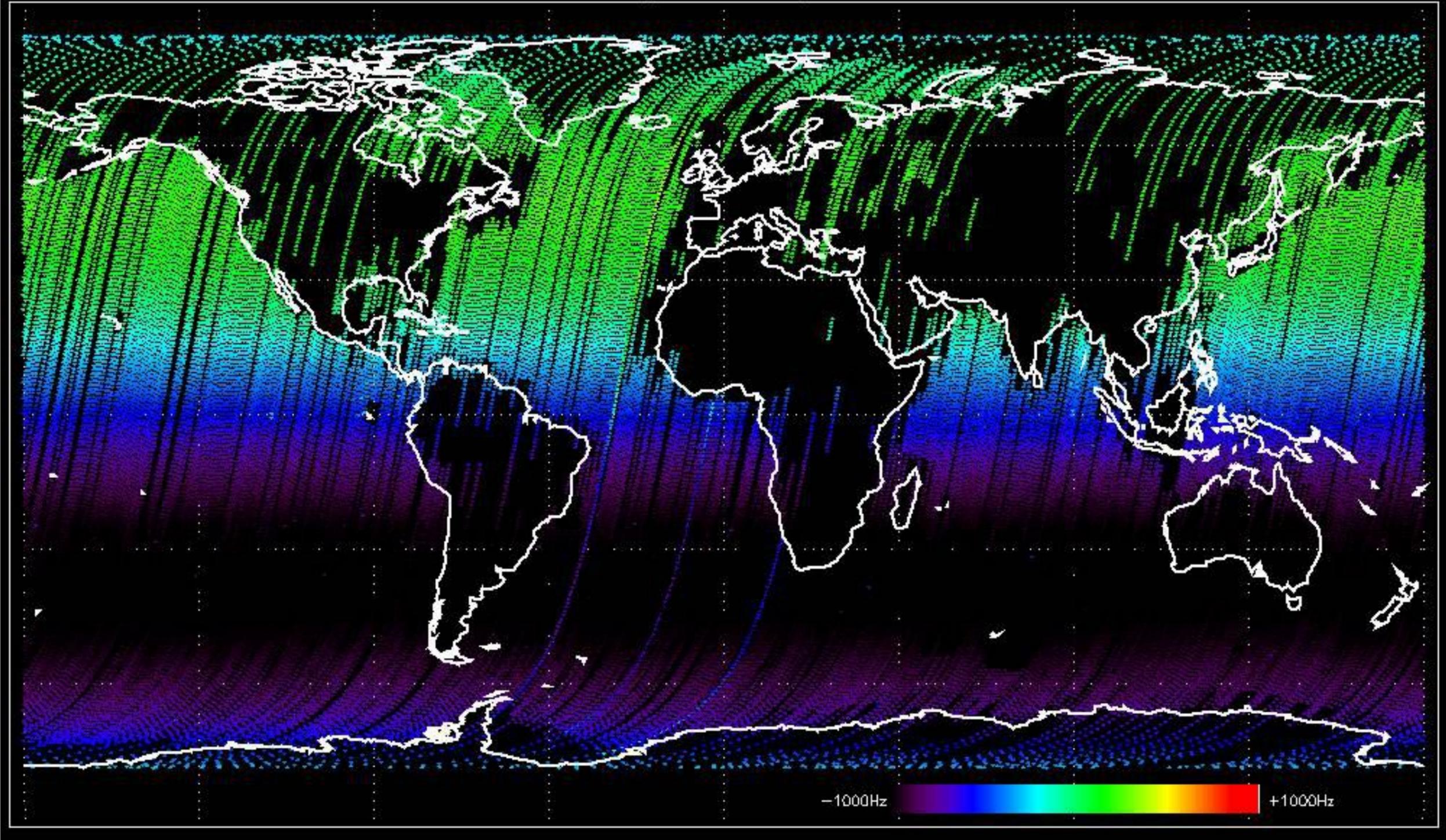


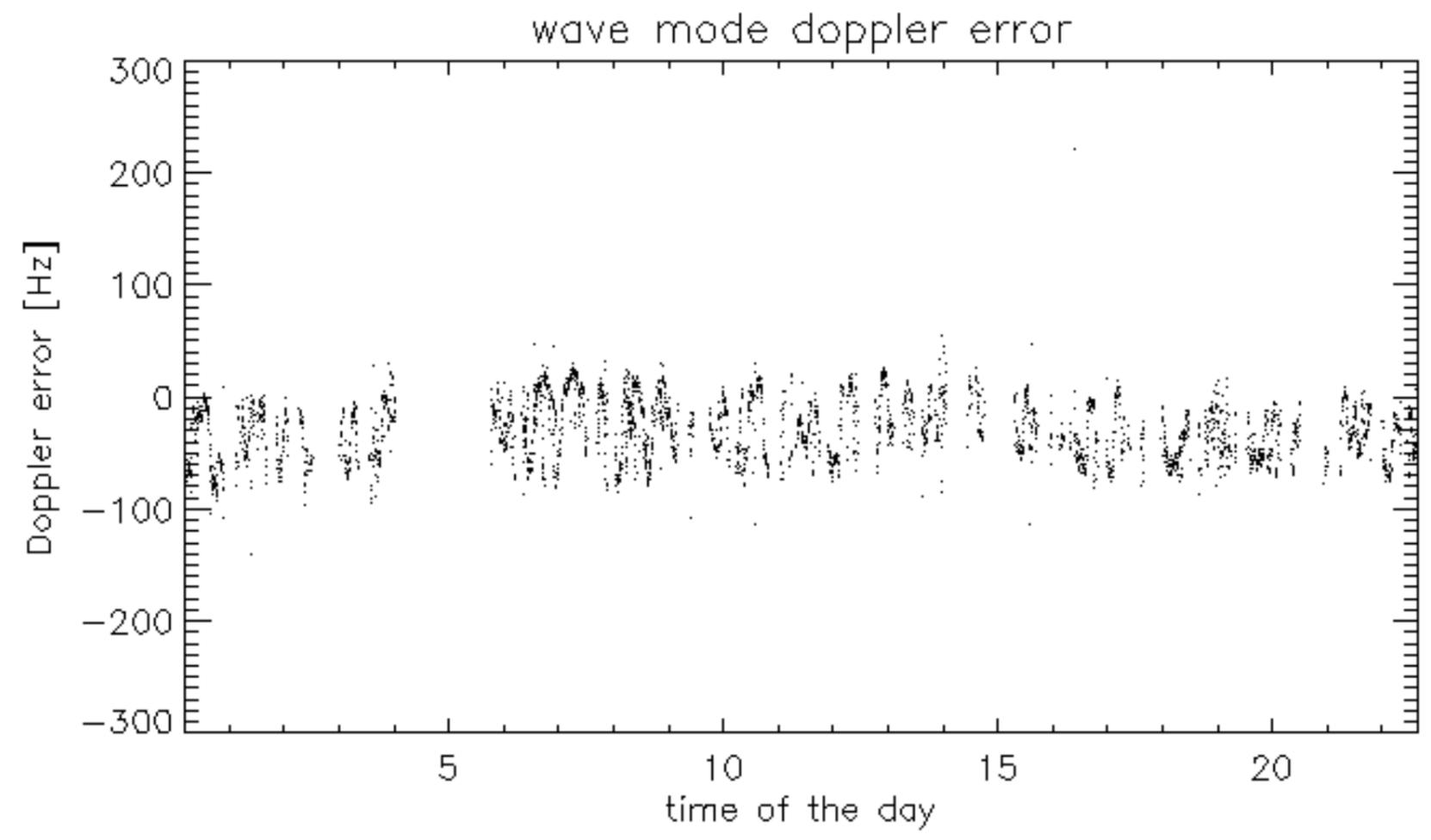
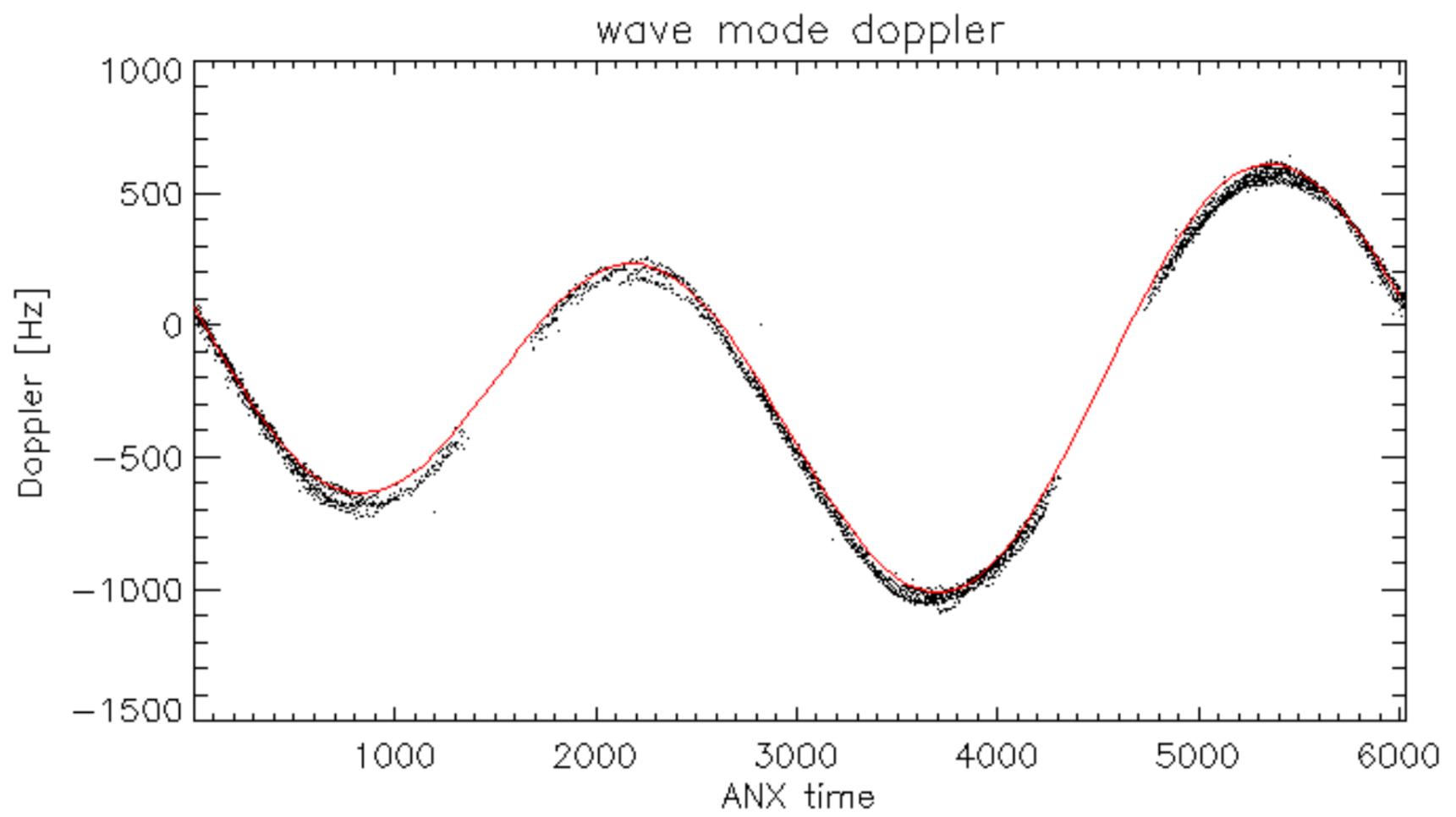
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- Stable raw data statistics.
- Nominal Doppler behavior.

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

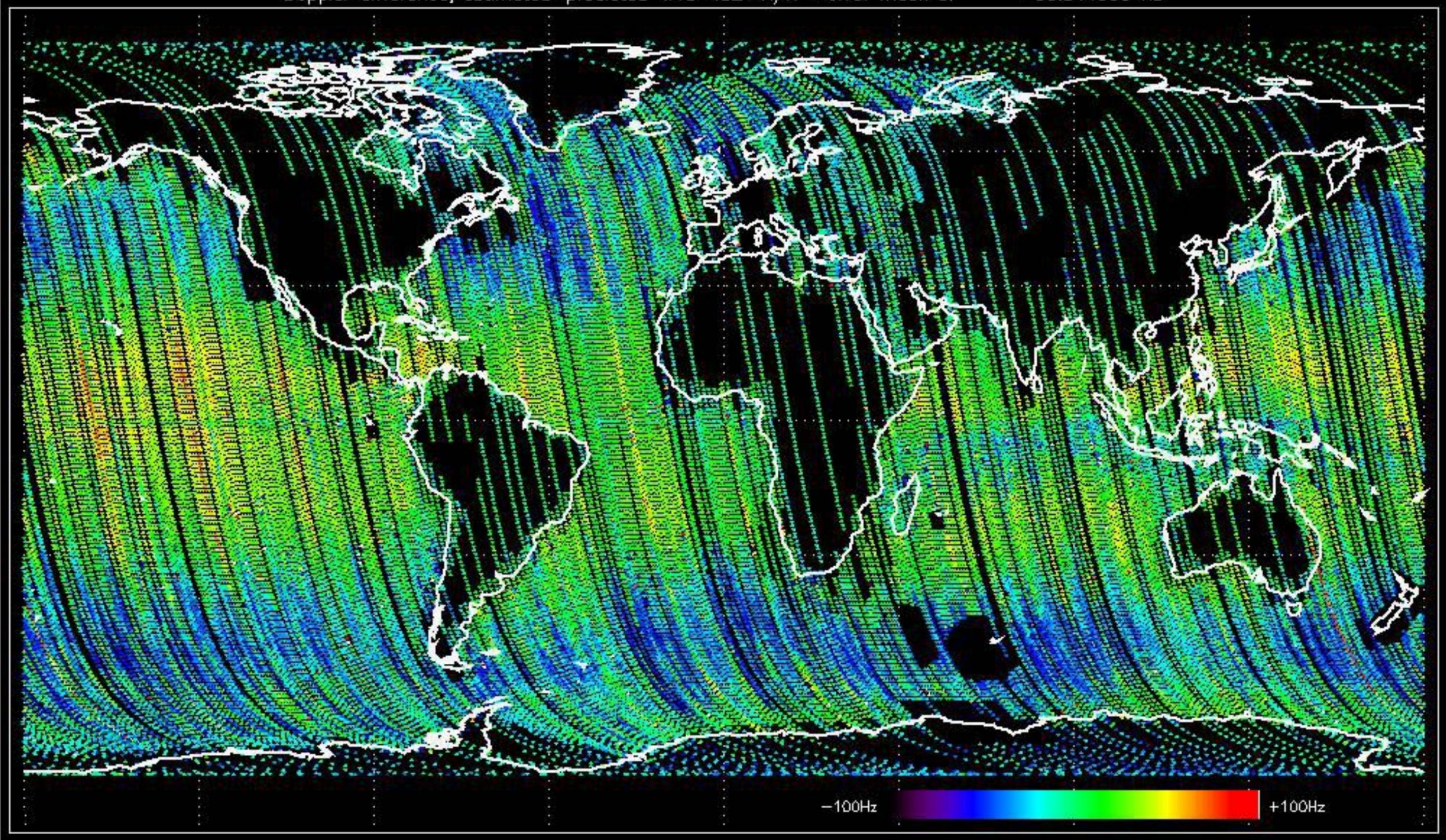


Doppler 'WVS' 'IS2' 'V/V'

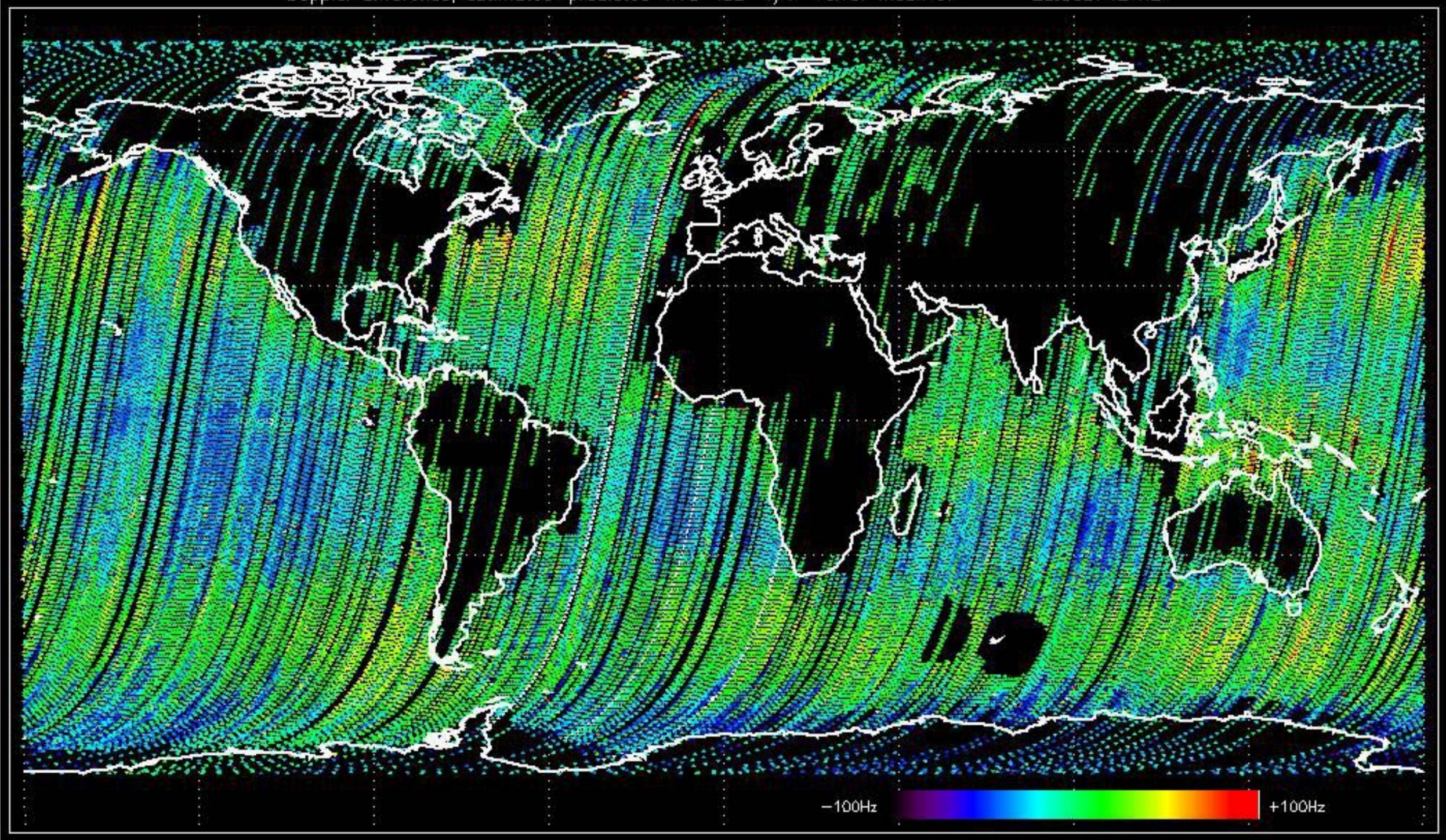




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -30.814905 Hz



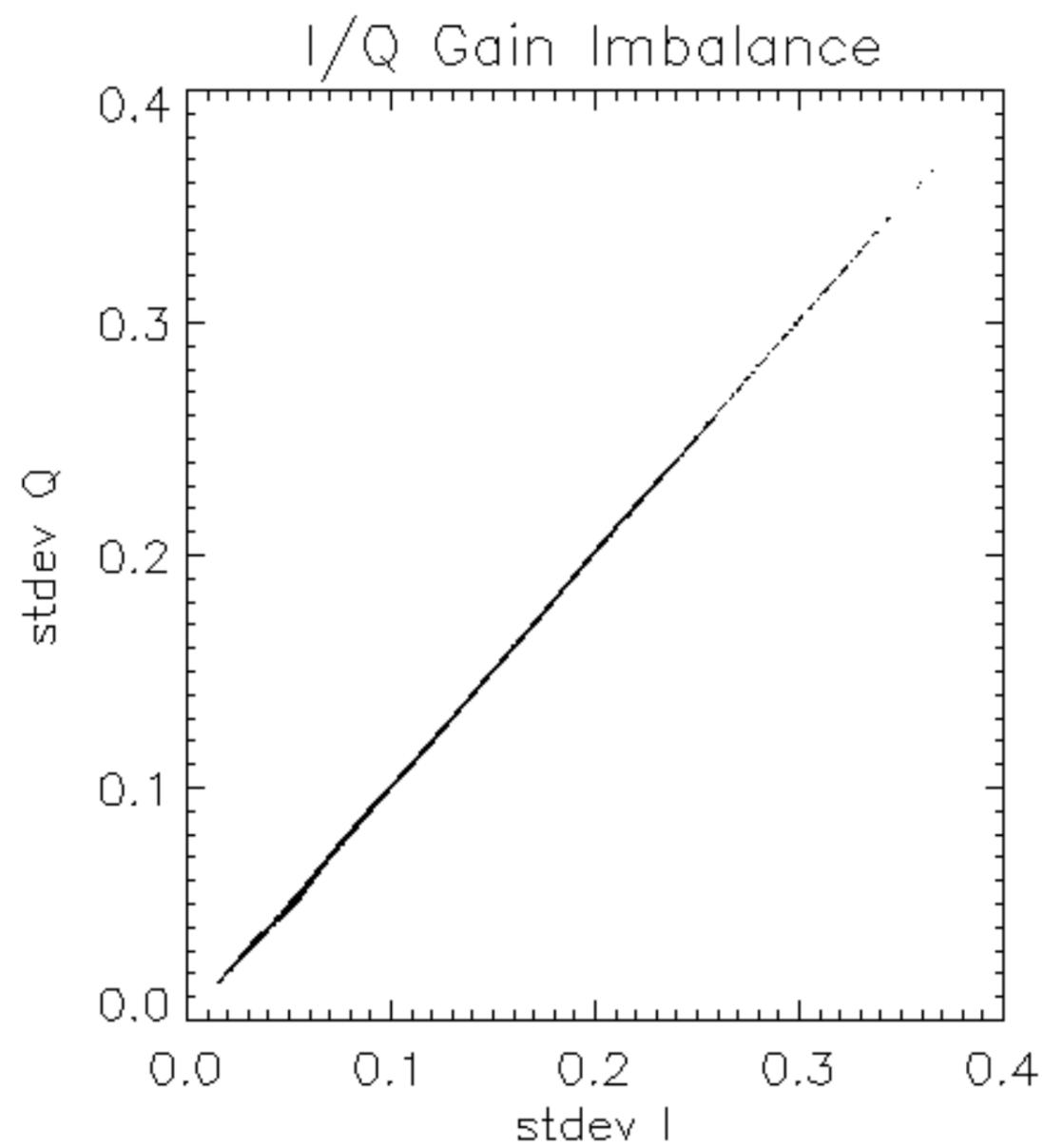
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -28.359712 Hz

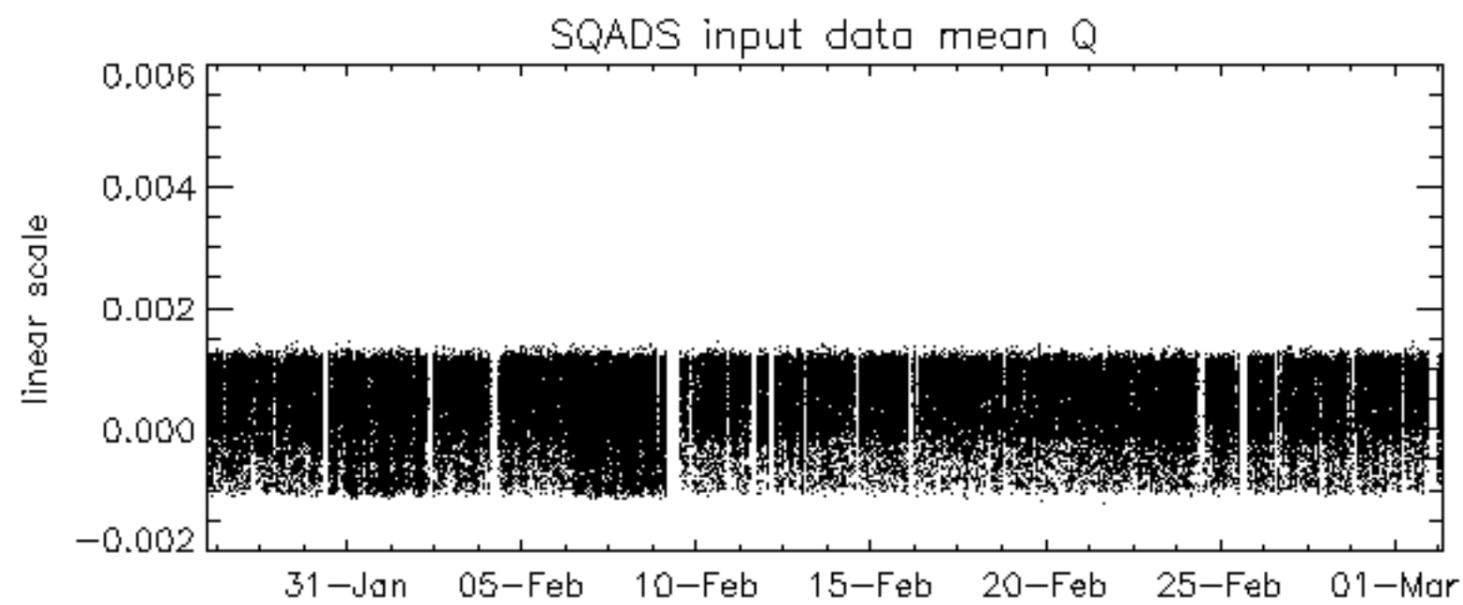
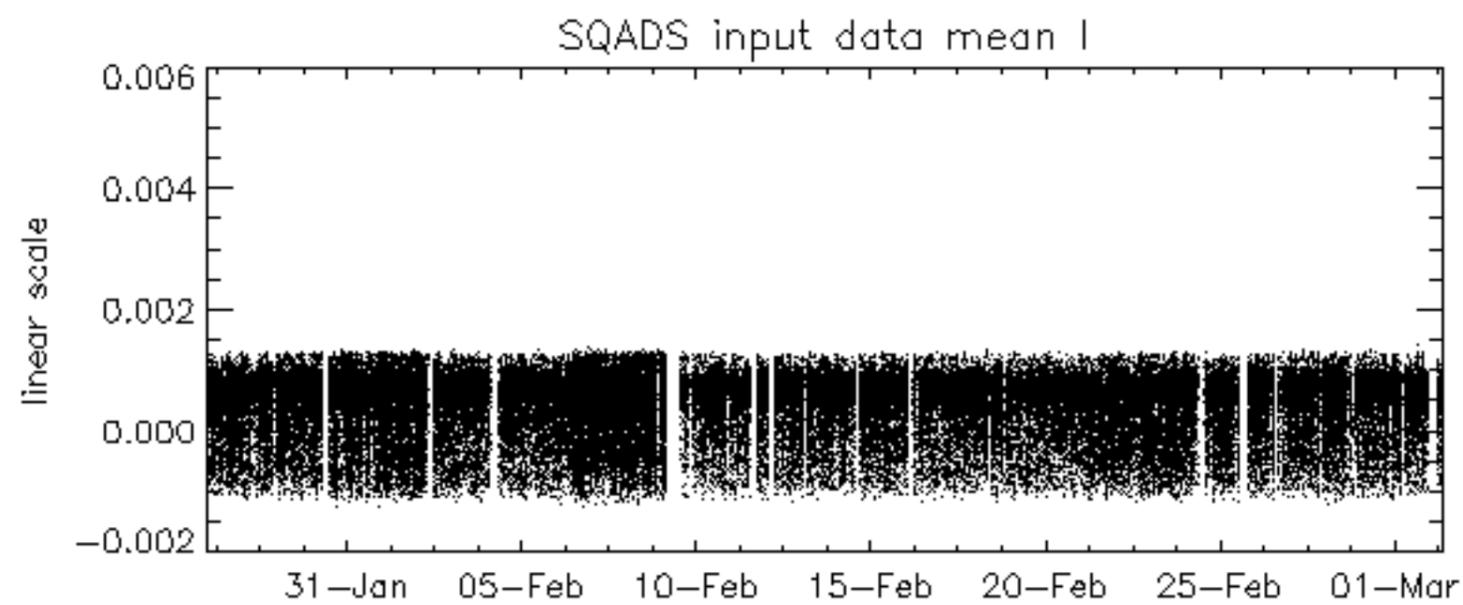
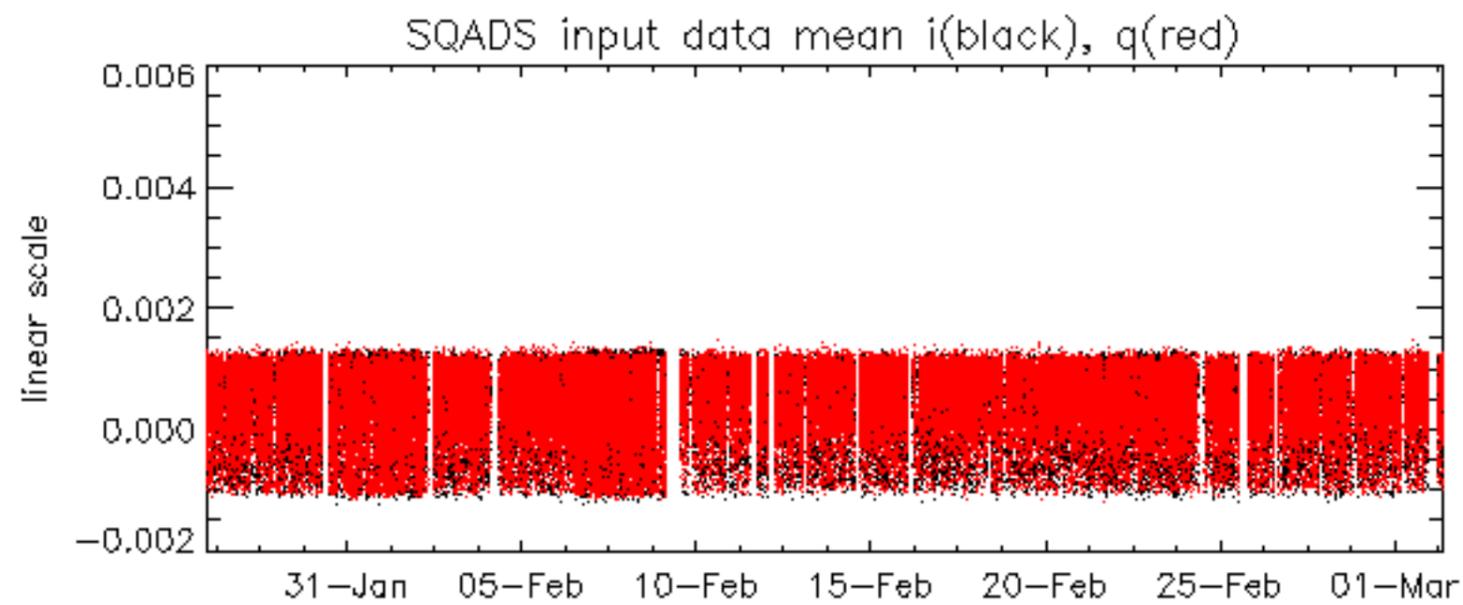


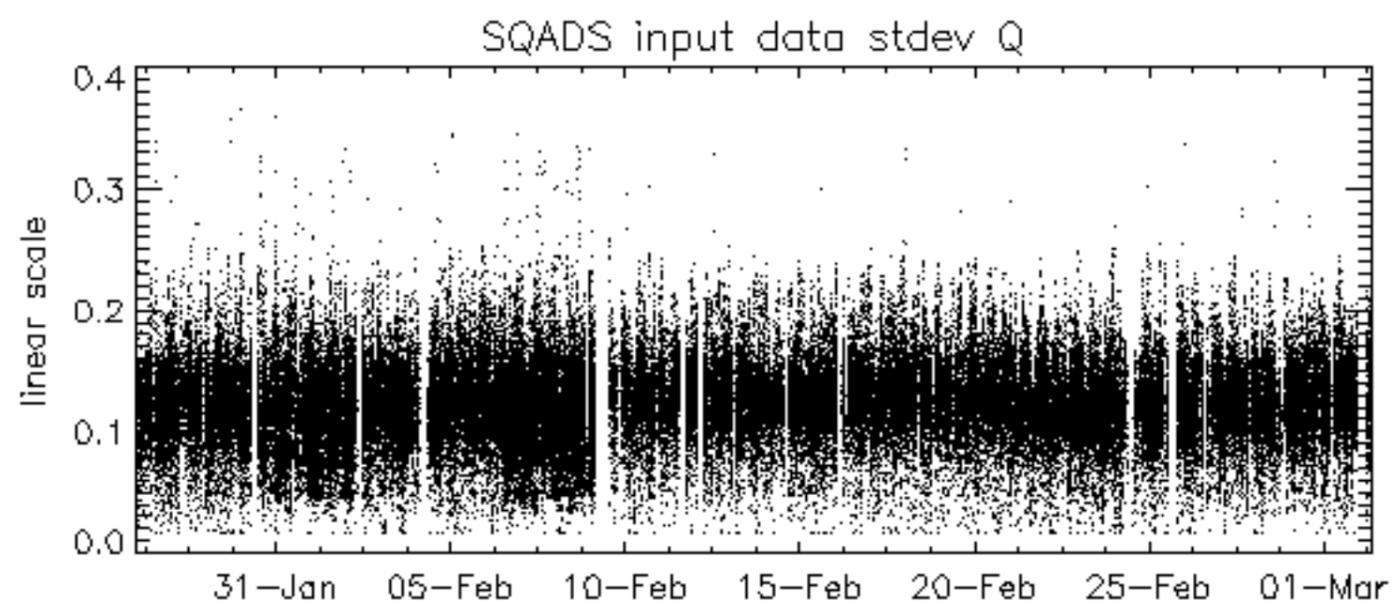
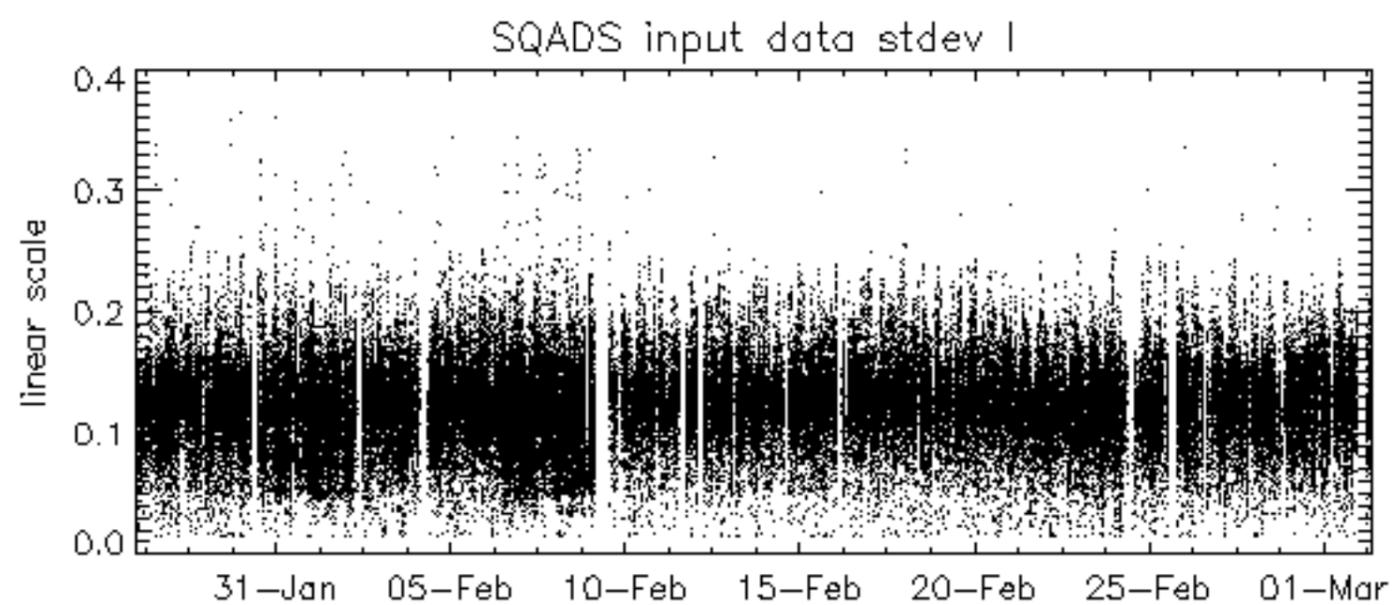
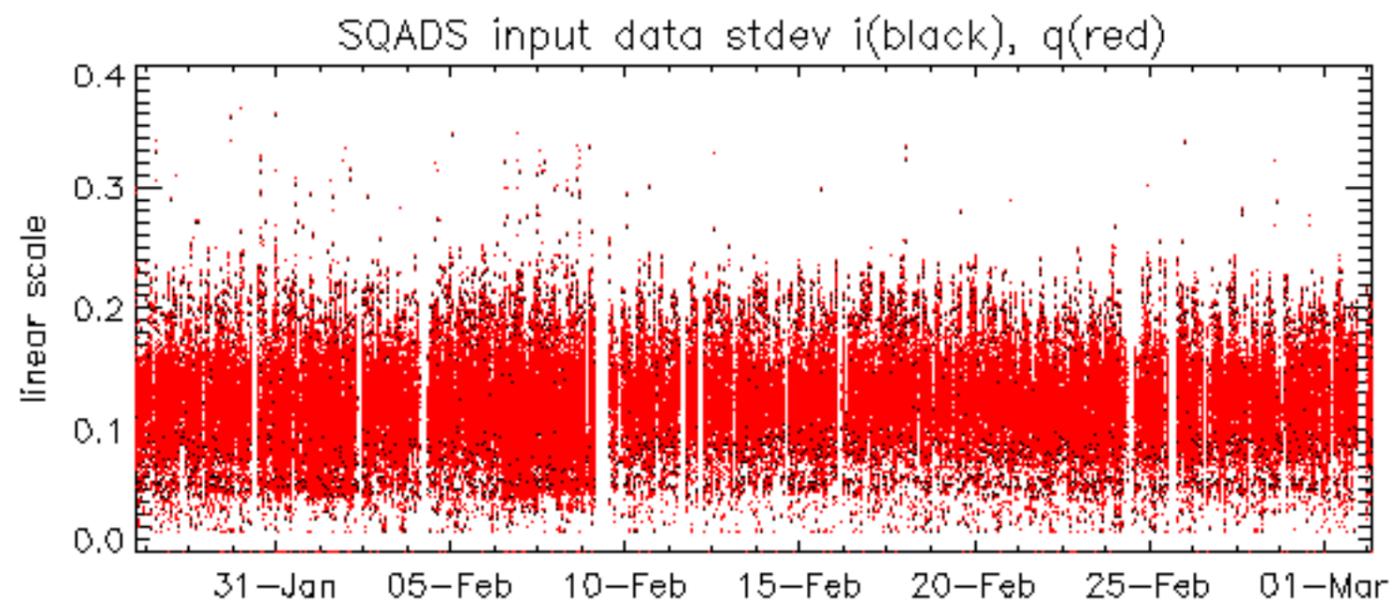
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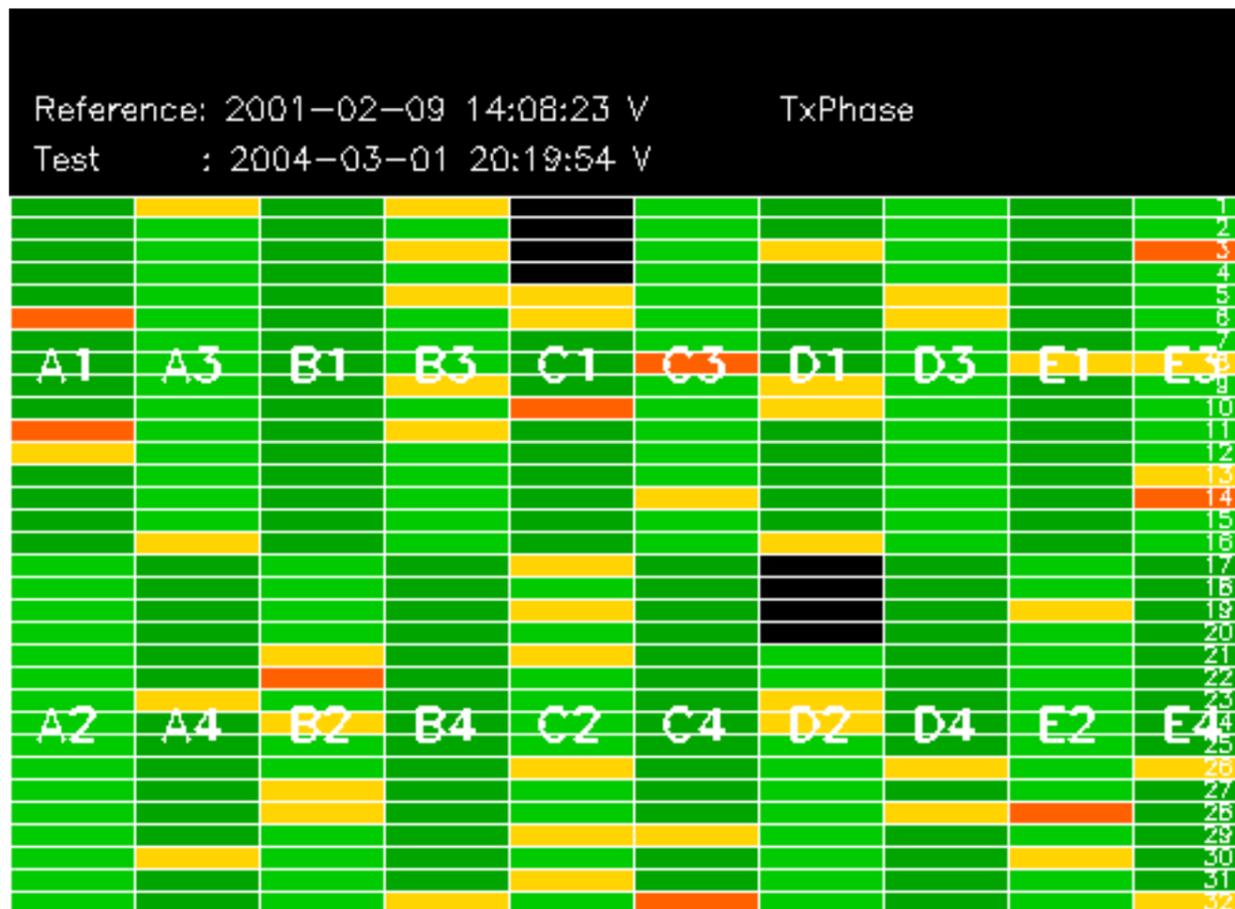
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- ASA_MS__0PNPDK20040301_201954_000000152024_00400_10474_0244.N1

No anomalies observed.









No unavailabilities during the reported period.