

REPORT OF 040227

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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.

-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:

Polarisation	Start Time
V	20040226 190509
H	20040226 190349

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	-3.61855	-22.3865	-8.13164
	stdev	0.00669019	0.0710445	0.00256093

24	mean	-5.08640	-21.0471	-8.13164
	stdev	0.0155743	0.0647191	0.00256093



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.64584	-22.4065	-8.13365
	stdev	0.00659063	0.0770305	0.00304819
24	mean	-5.10730	-21.0751	-8.13365
	stdev	0.0147056	0.0738130	0.00304819



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	0.000444240
	stdev	2.67363e-07
MEAN Q	mean	0.000410270
	stdev	3.08321e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.121983
	stdev	0.00128819

STDEV Q	mean	0.122210
	stdev	0.00130215



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

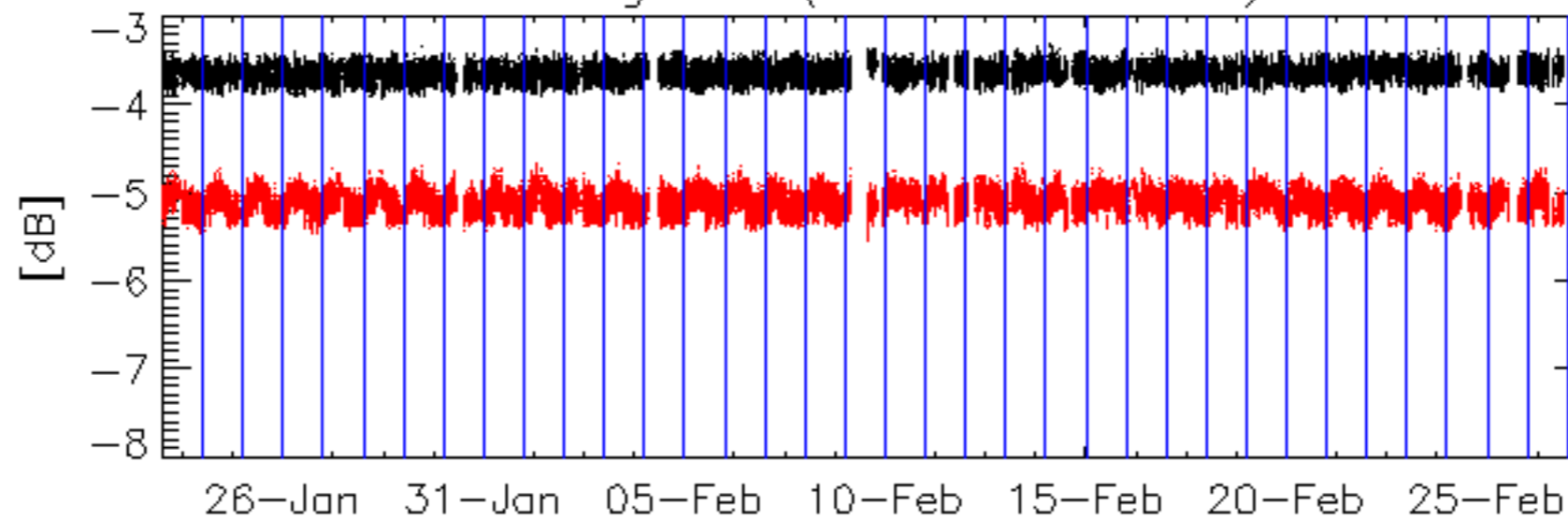
6.2 - Absolute Doppler

Evolution of Absolute Doppler
Ascending
Descending

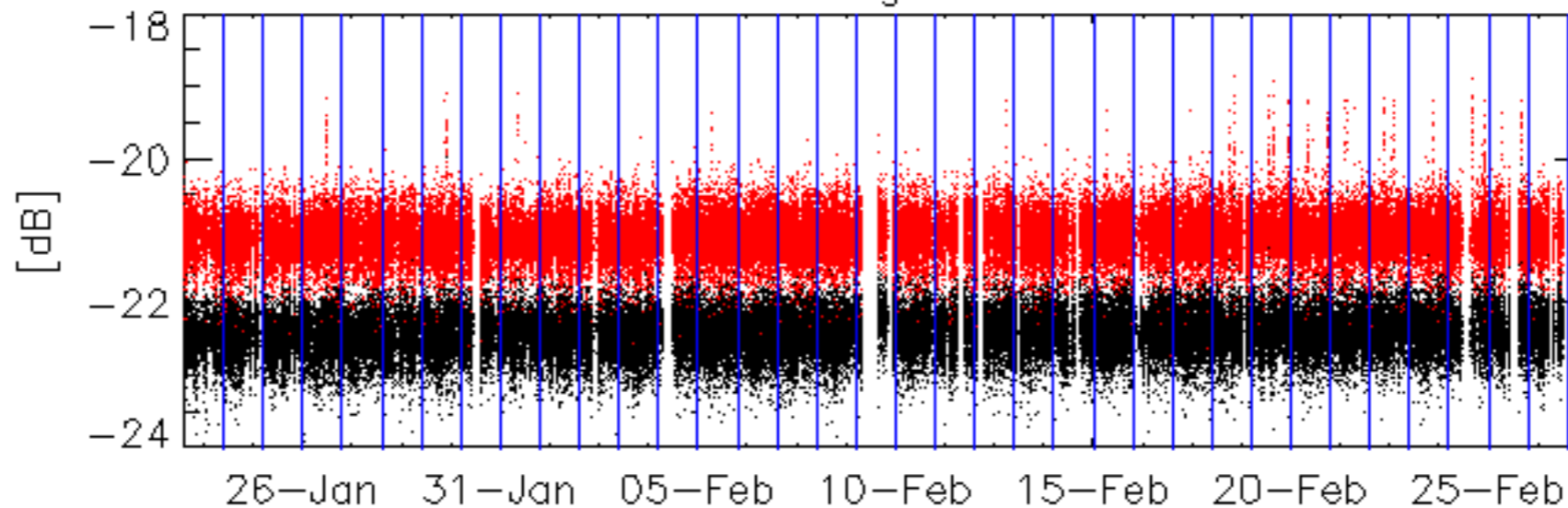
6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX


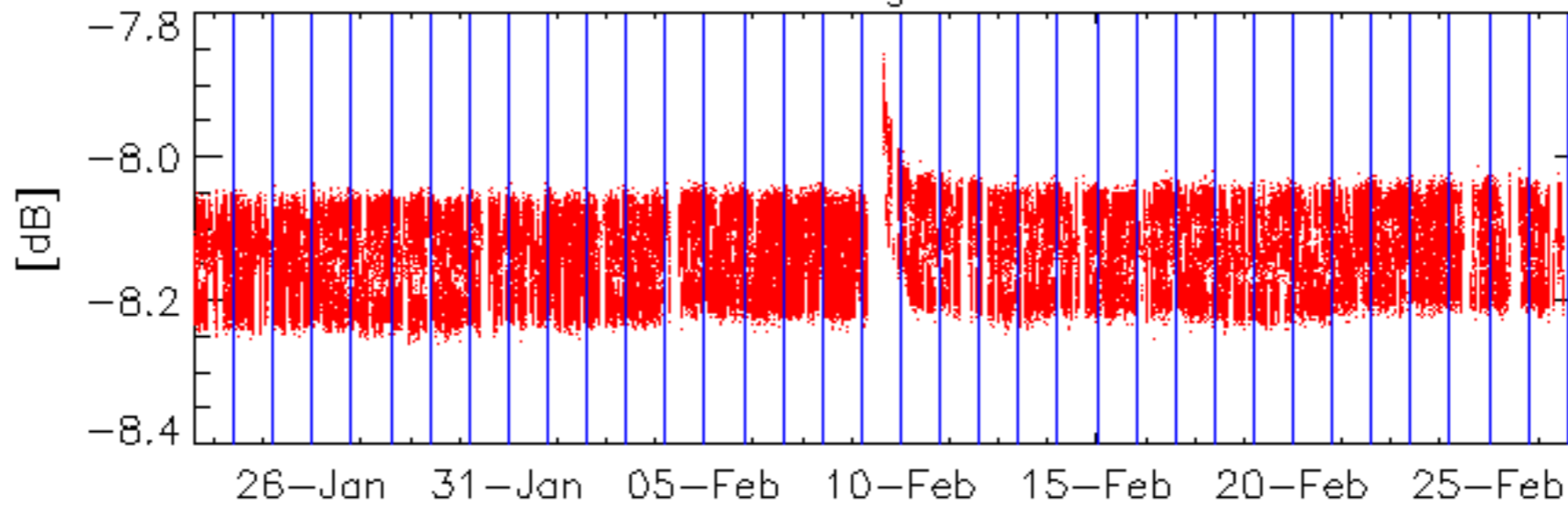
Average P1 (row 3 & row 24)



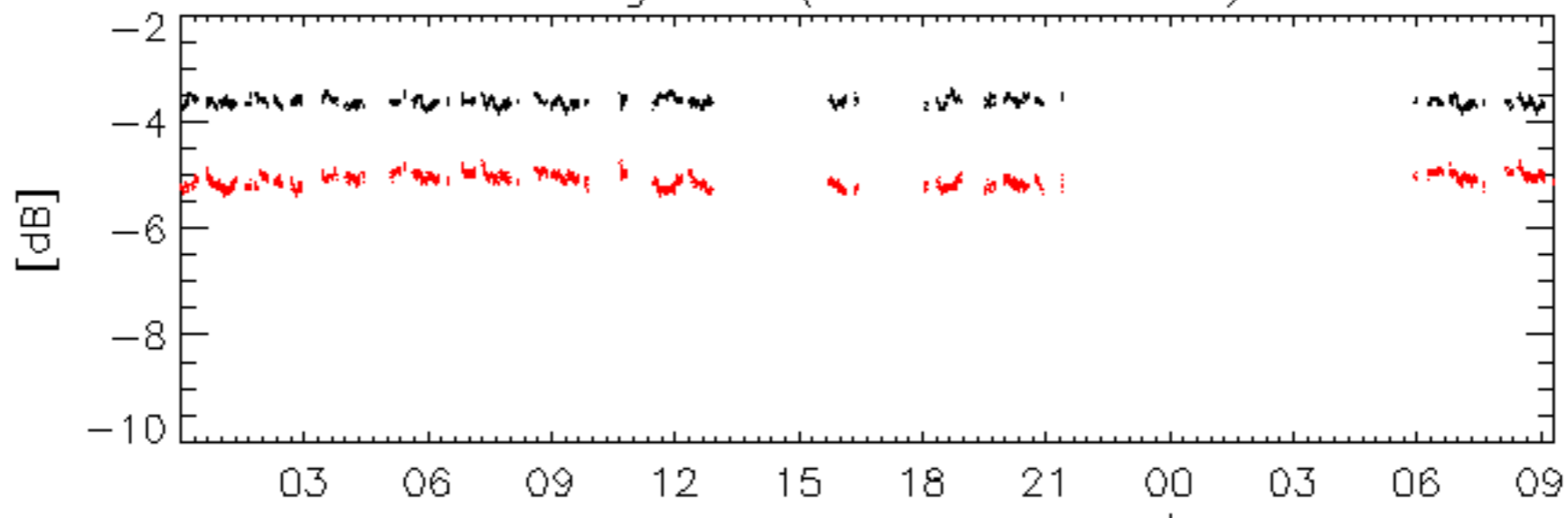
Average P2



Average P3

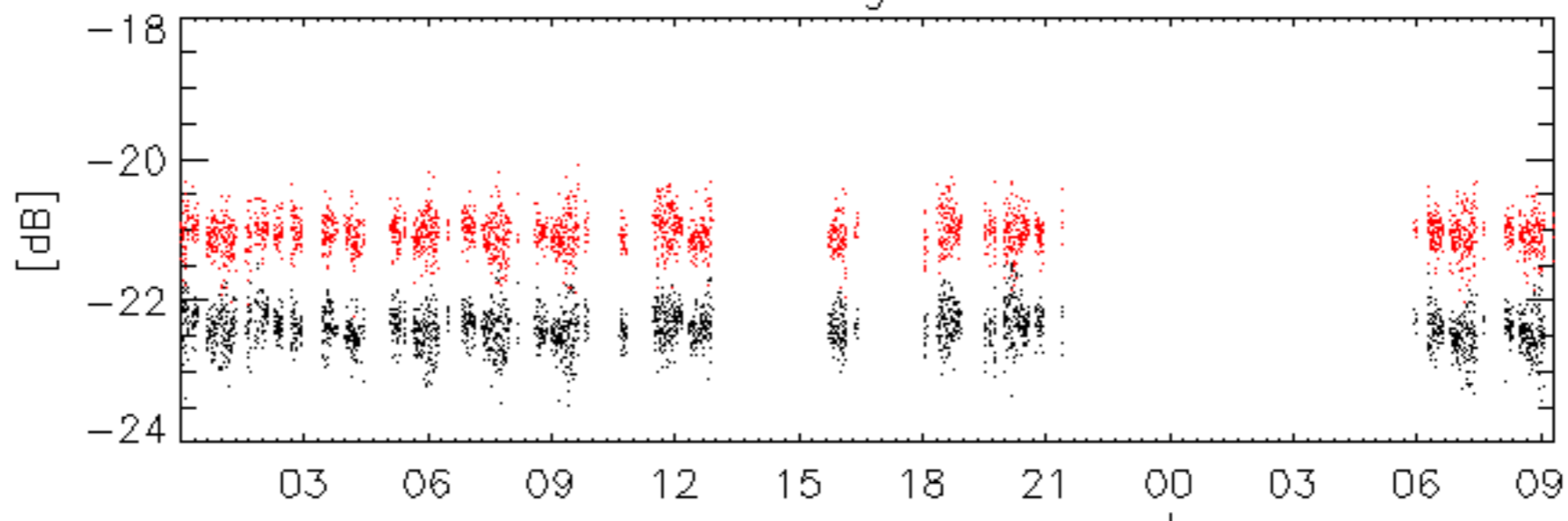


Average P1 (row 3 & row 24)



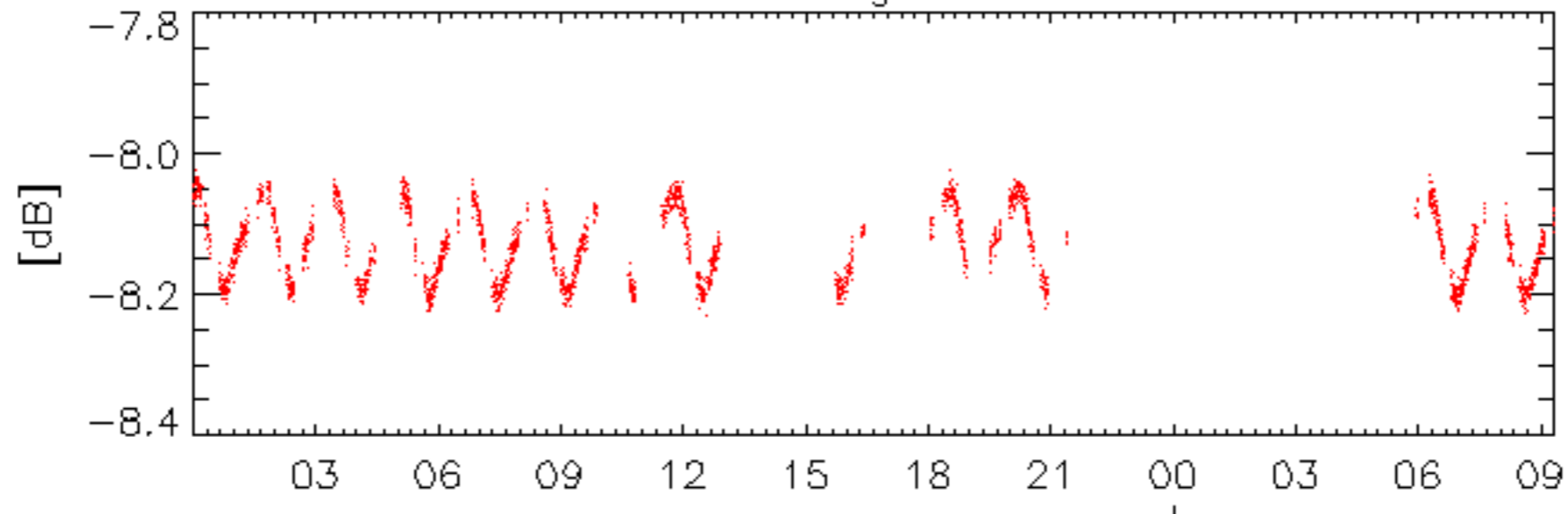
27-Feb

Average P2



27-Feb

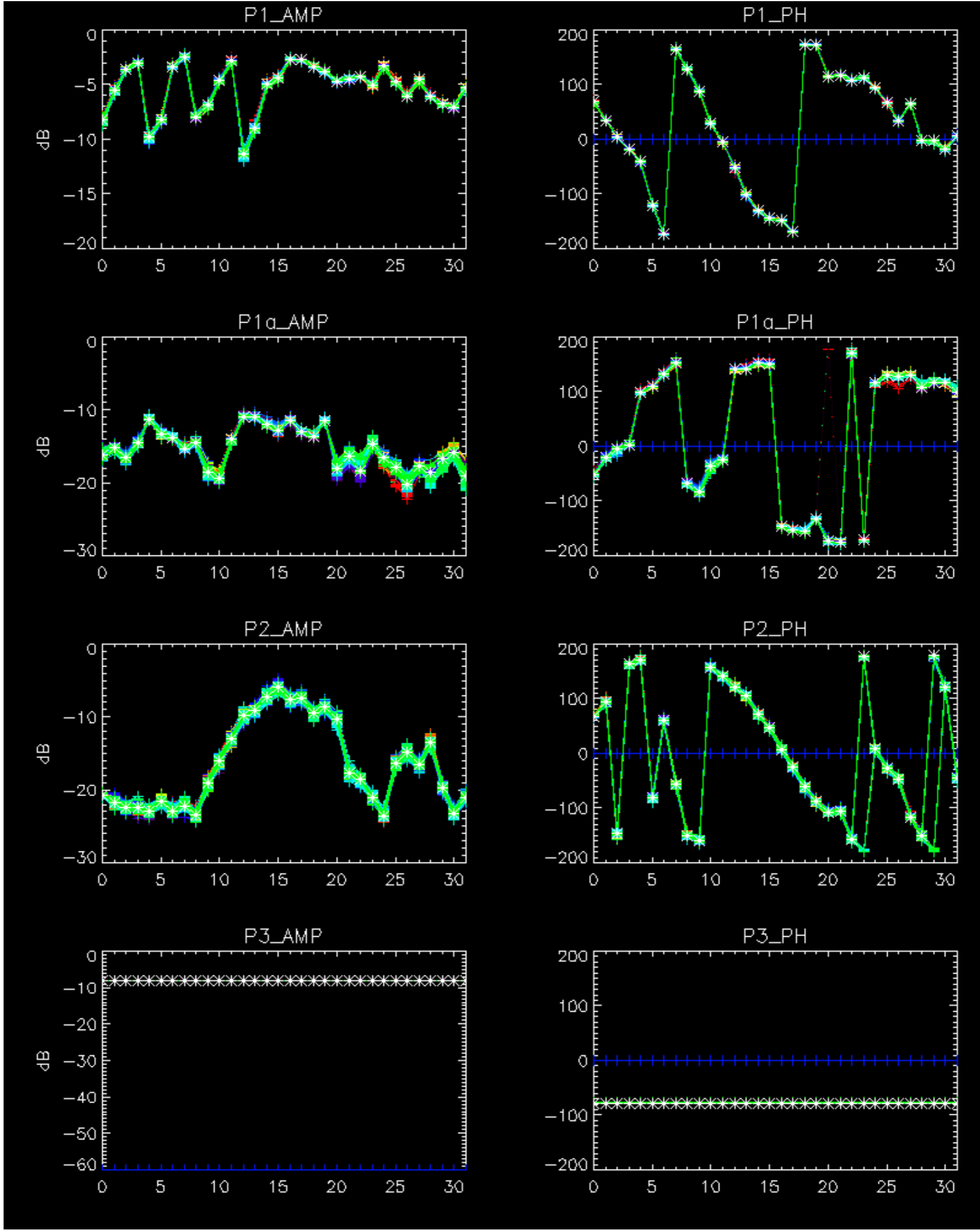
Average P3



27-Feb

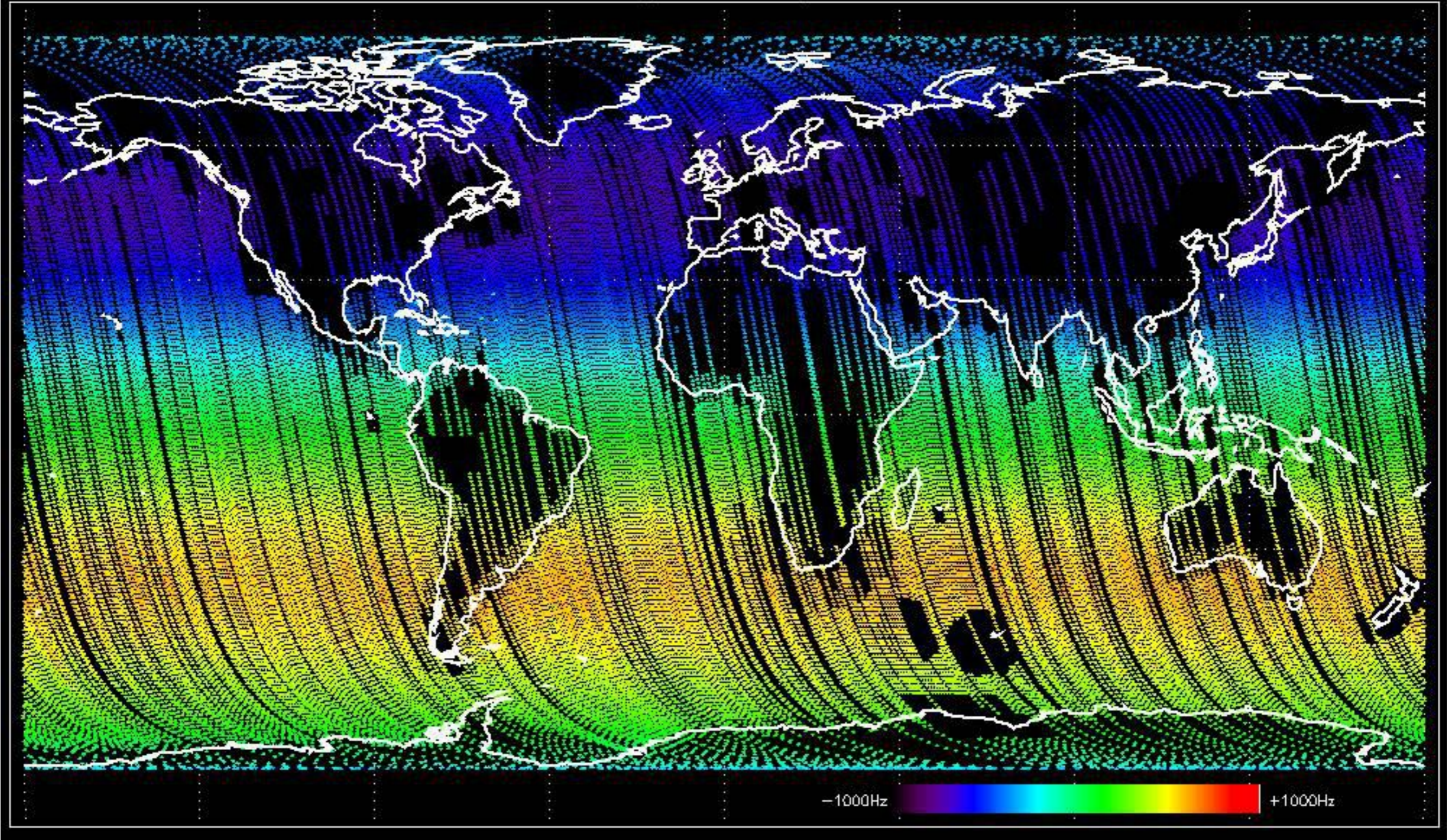
No anomalies observed on available browse products

No anomalies observed.

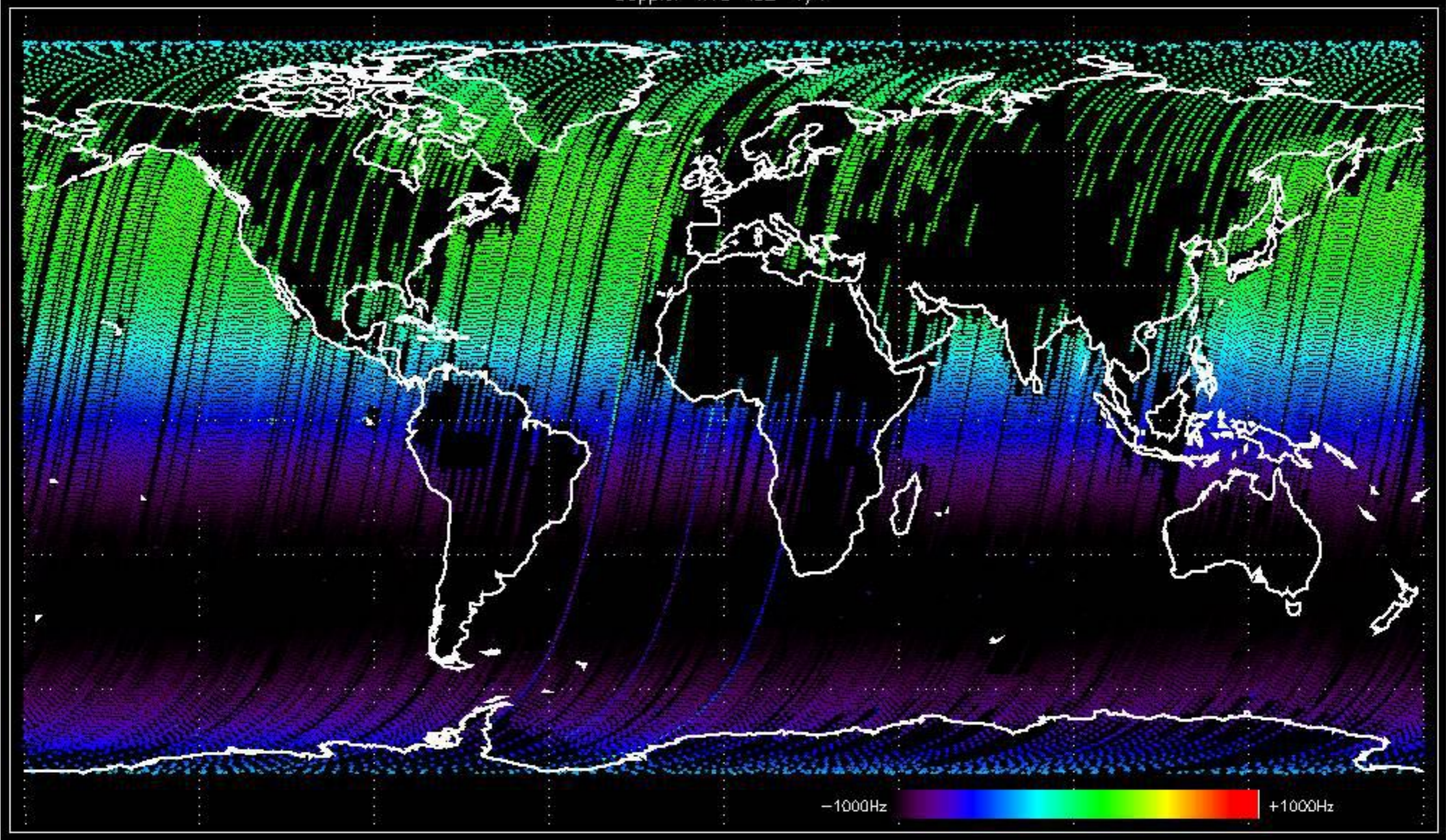


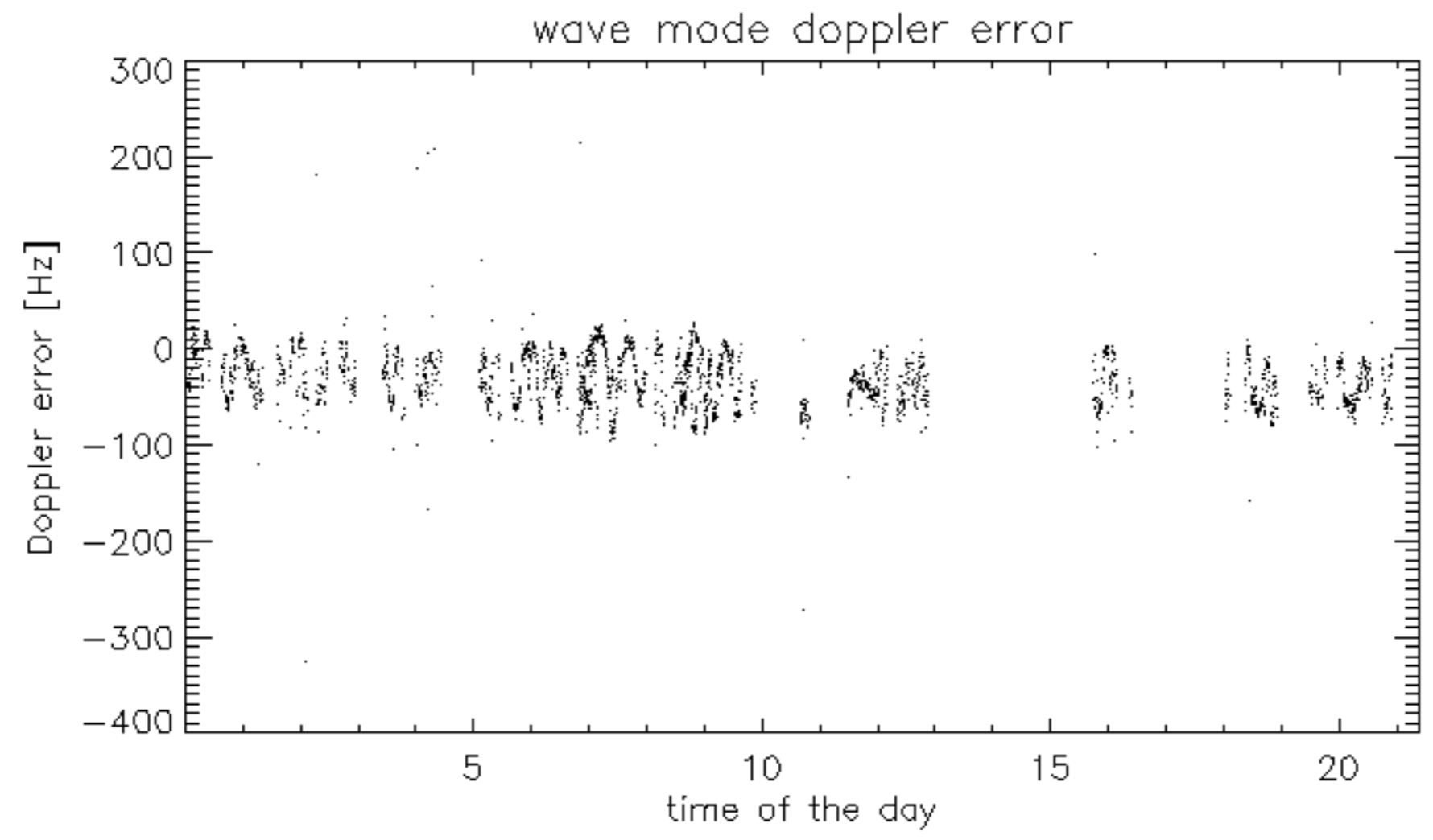
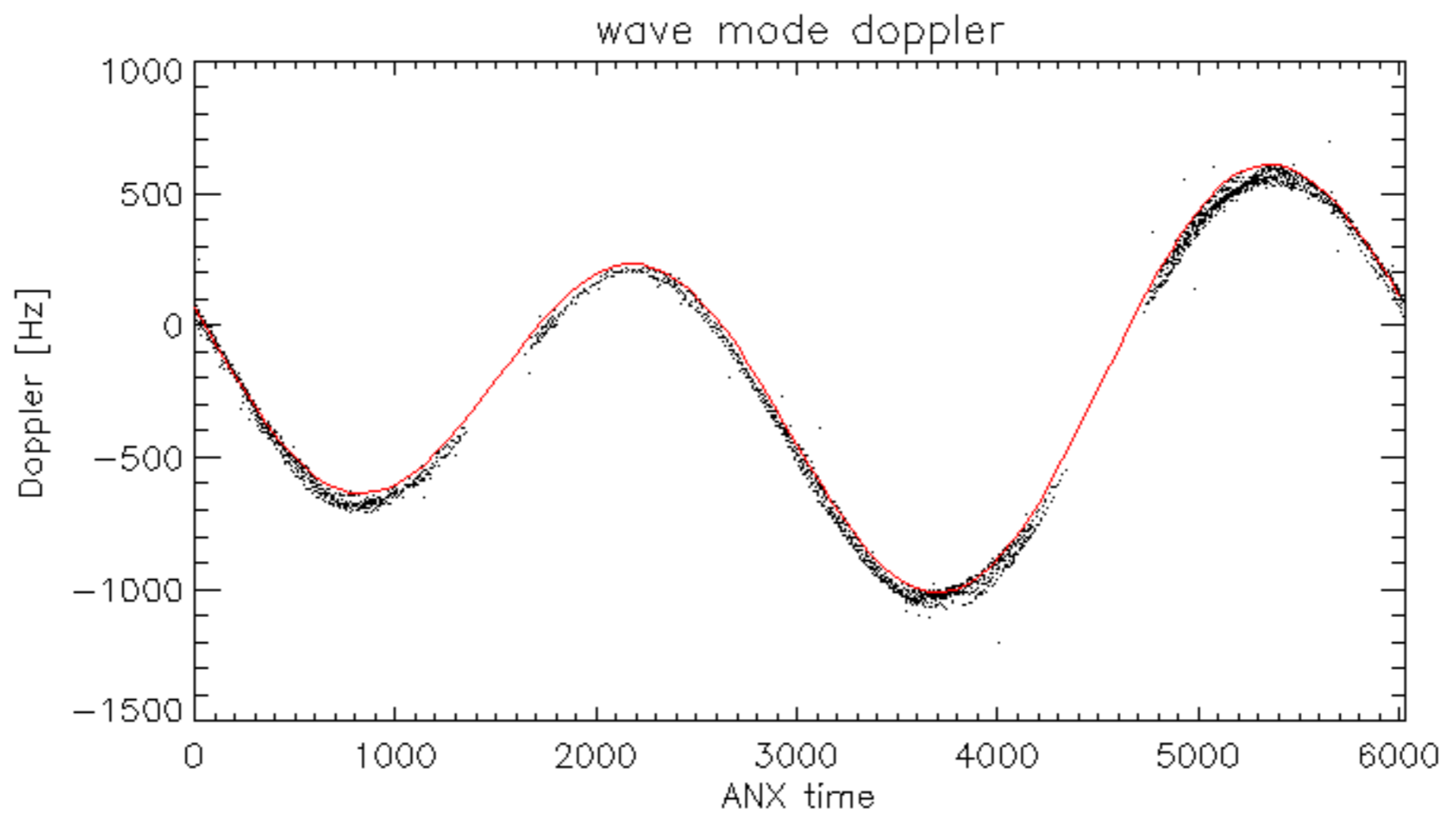
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- Stable raw data statistics.
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Doppler 'WVS' 'IS2' 'H/H'

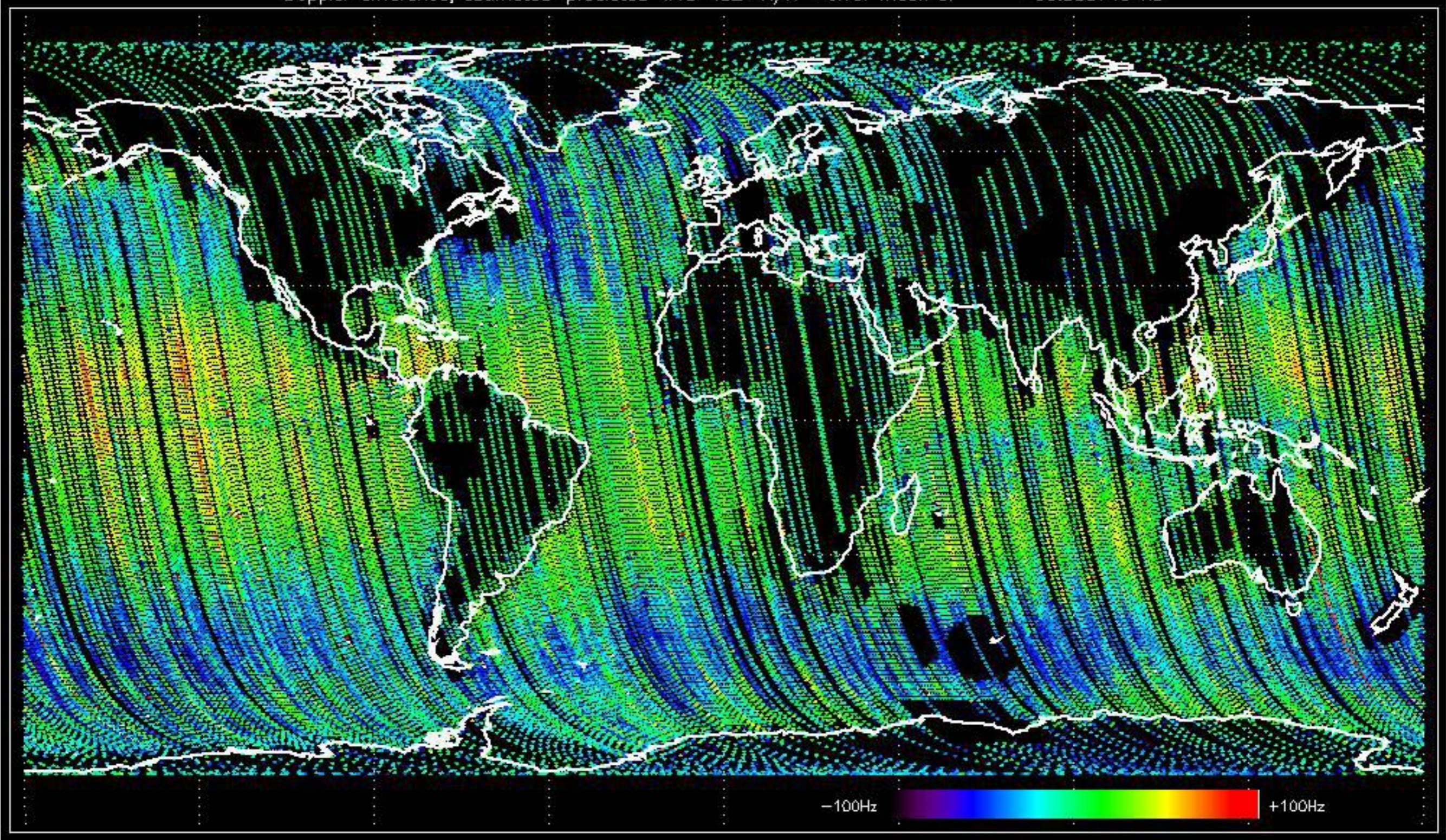


Doppler 'WVS' 'IS2' 'V/V'

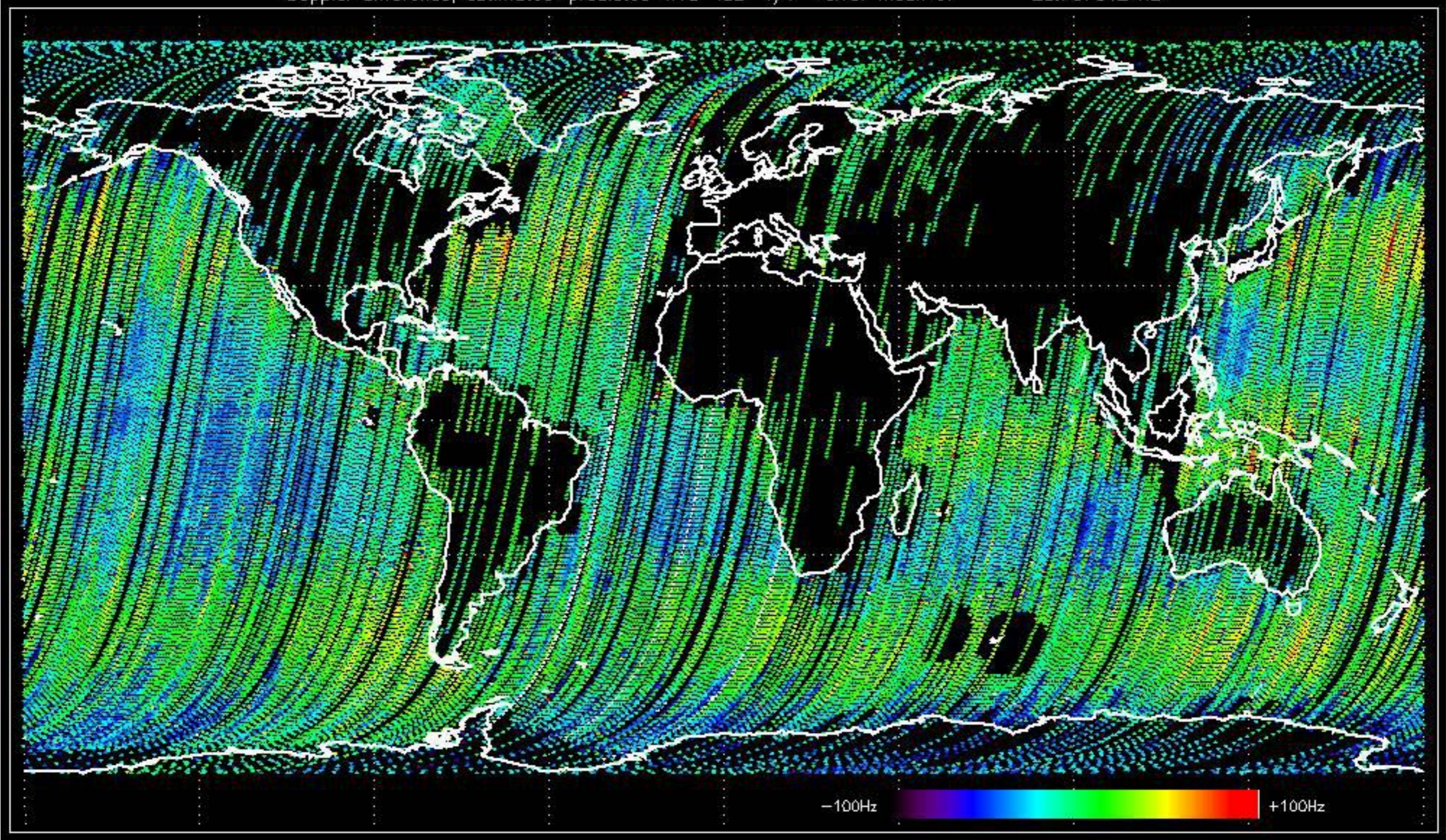




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -30.880740 Hz

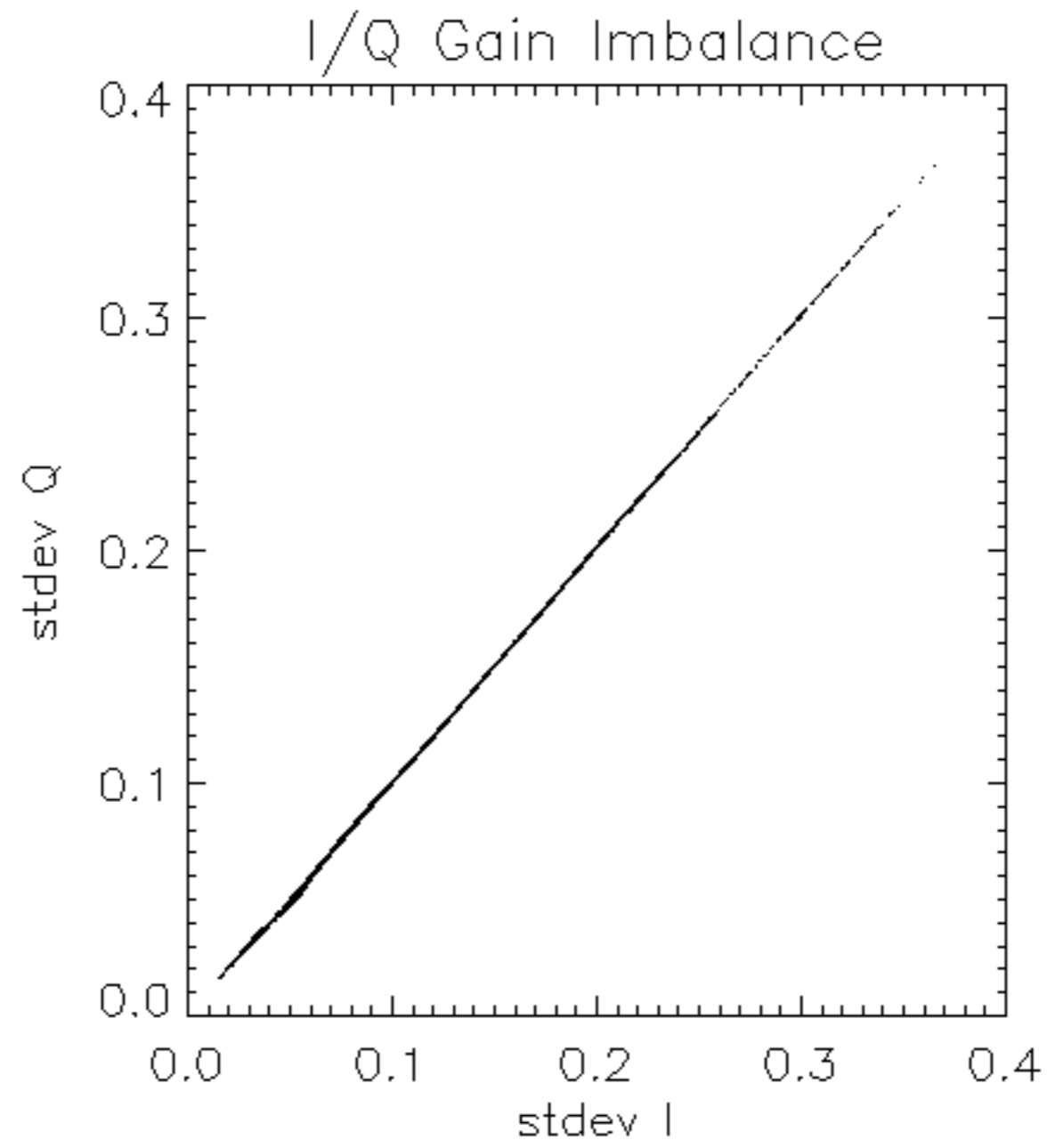


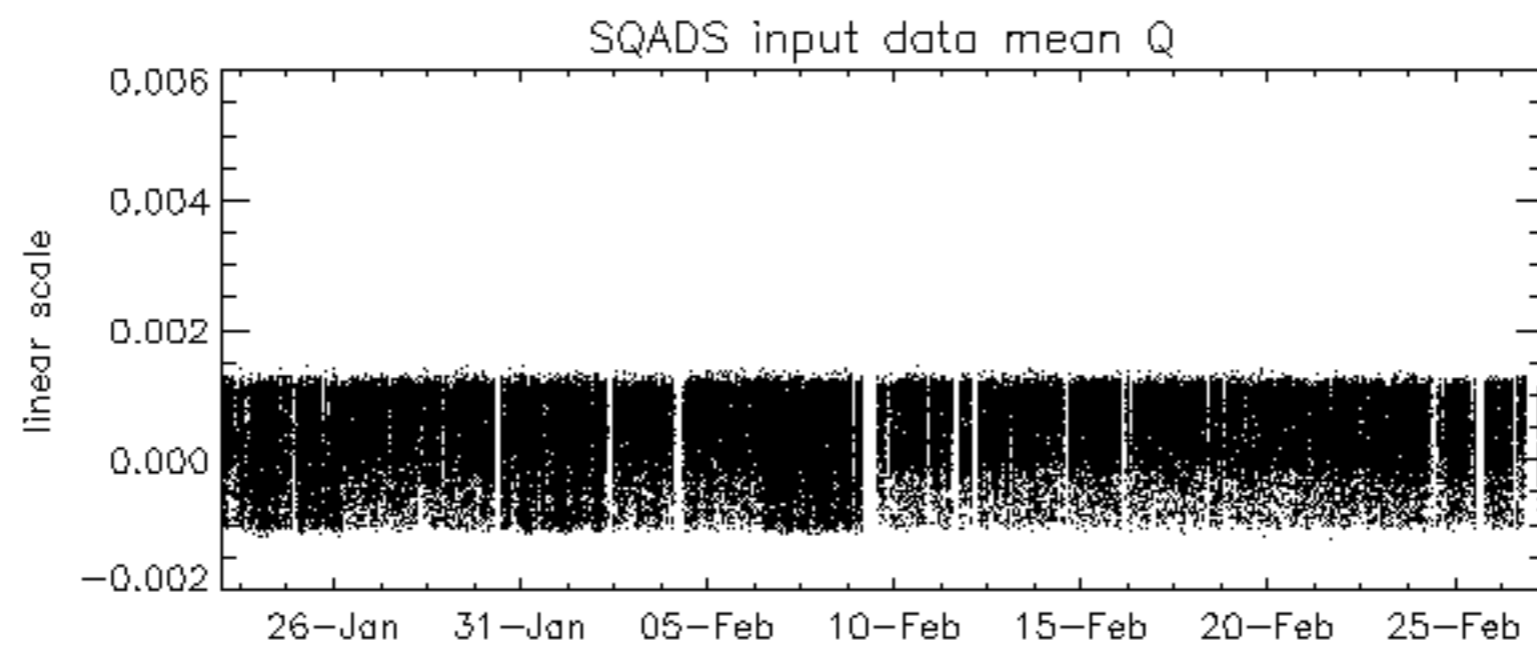
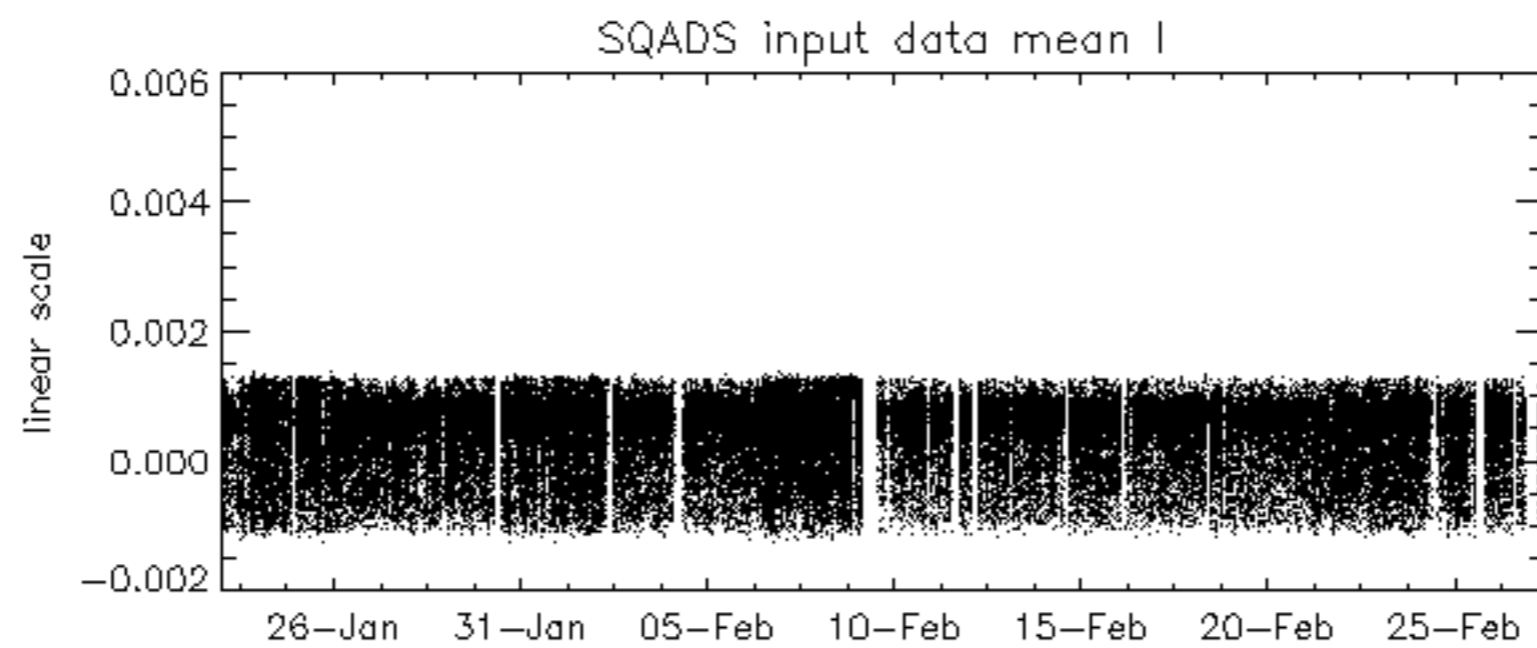
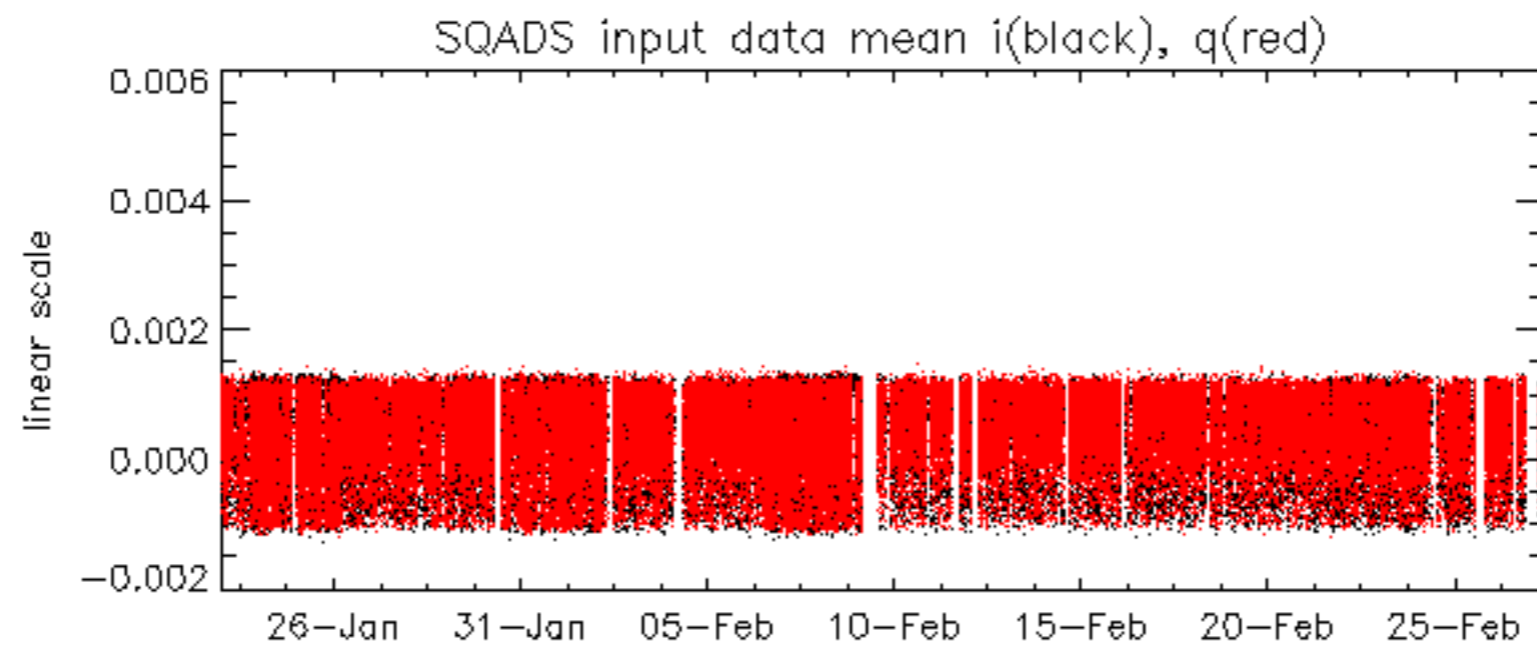
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -28.797042 Hz

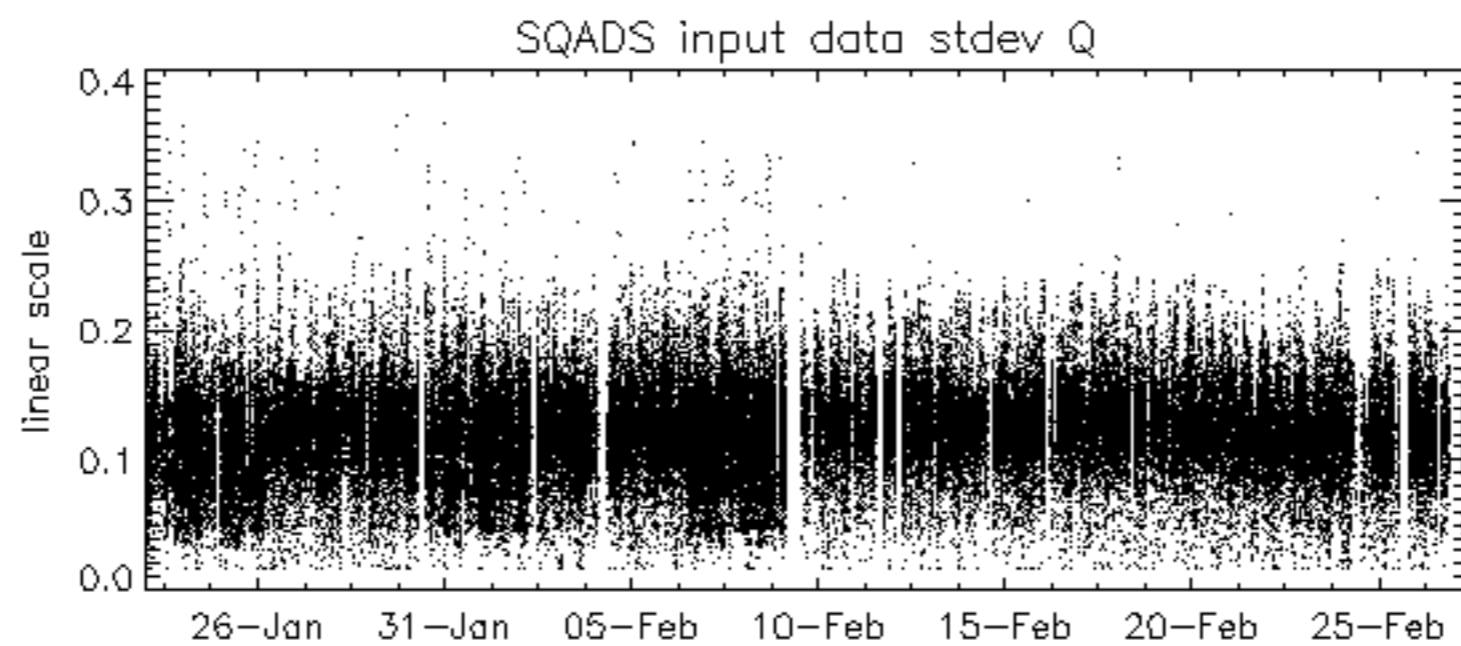
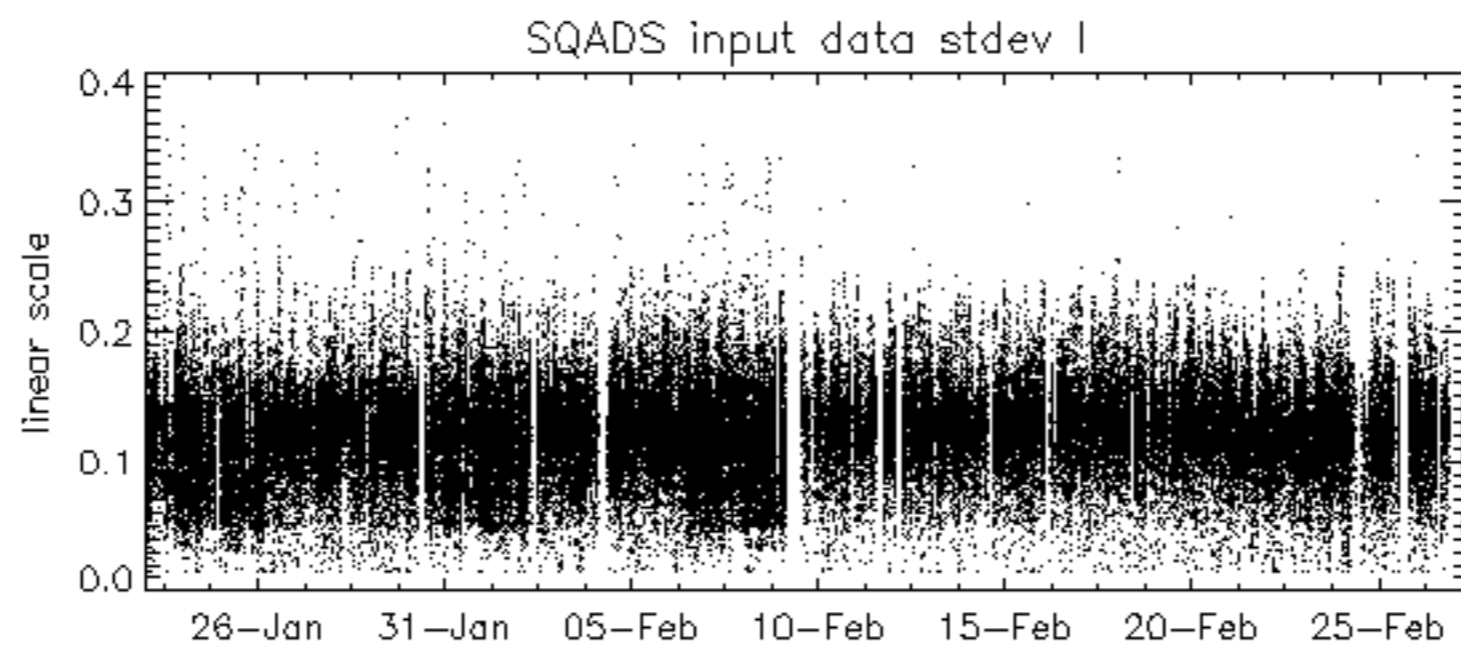
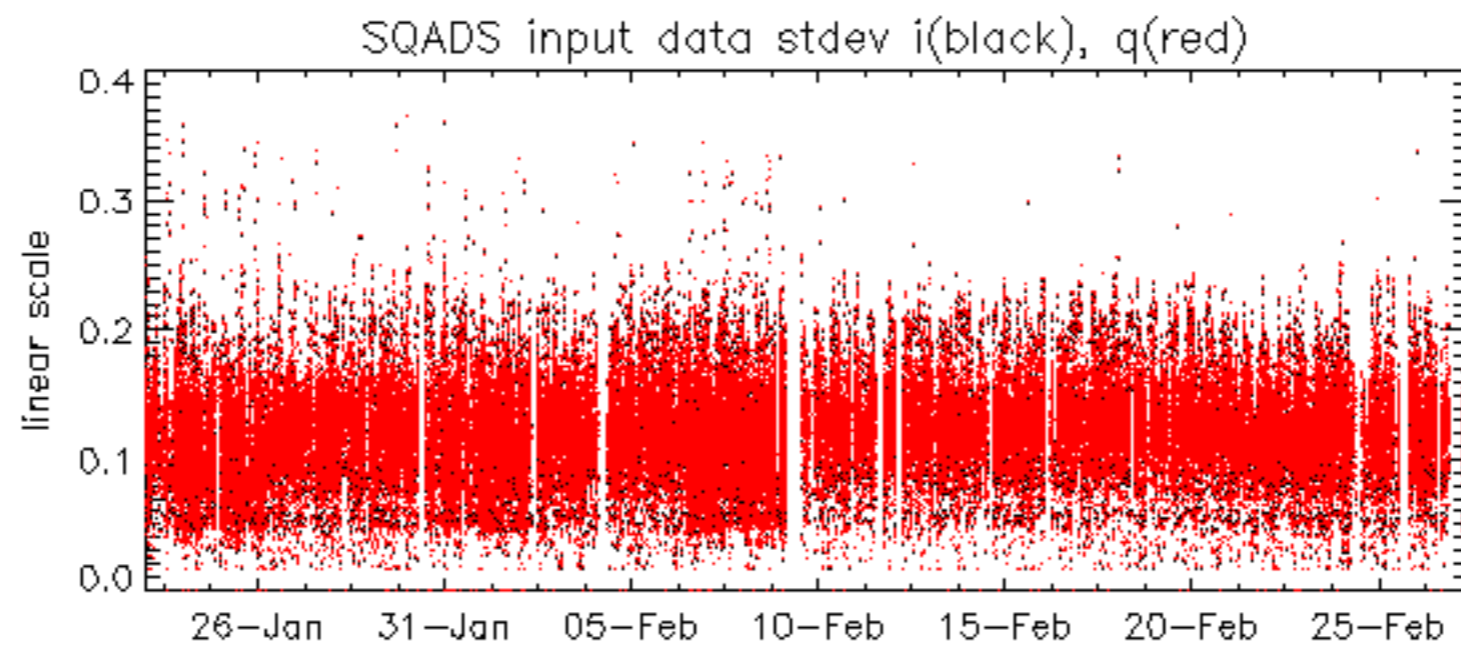


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