

PRELIMINARY REPORT OF 040201

ATTENTION: This report is automatically generated no comments are provided on data analysis

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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

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	20040131 192224
H	20040131 192104

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	-3.66691	-22.4286	-8.14209
	stdev	0.00509343	0.0597247	0.00253503

24	mean	-5.11903	-21.1086	-8.14209
	stdev	0.0148443	0.0597914	0.00253503



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.69126	-22.4978	-8.15180
	stdev	0.00708030	0.0710203	0.00321977
24	mean	-5.23485	-21.1309	-8.15180
	stdev	0.567019	0.0651661	0.00321977



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	0.000424838
	stdev	2.95883e-07
MEAN Q	mean	0.000328377
	stdev	3.47915e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.116891
	stdev	0.00138607

STDEV Q	mean	0.117126
	stdev	0.00140057



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

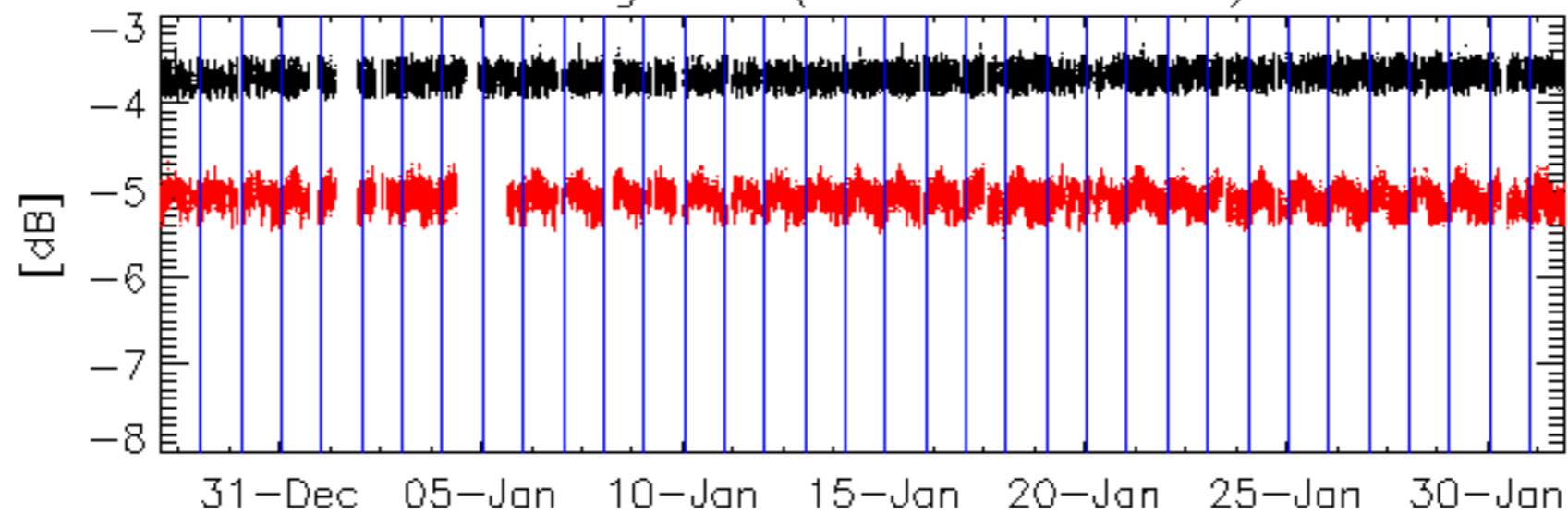
Preliminary report. The data is not yet controlled

6.1 - Doppler evolution versus ANX

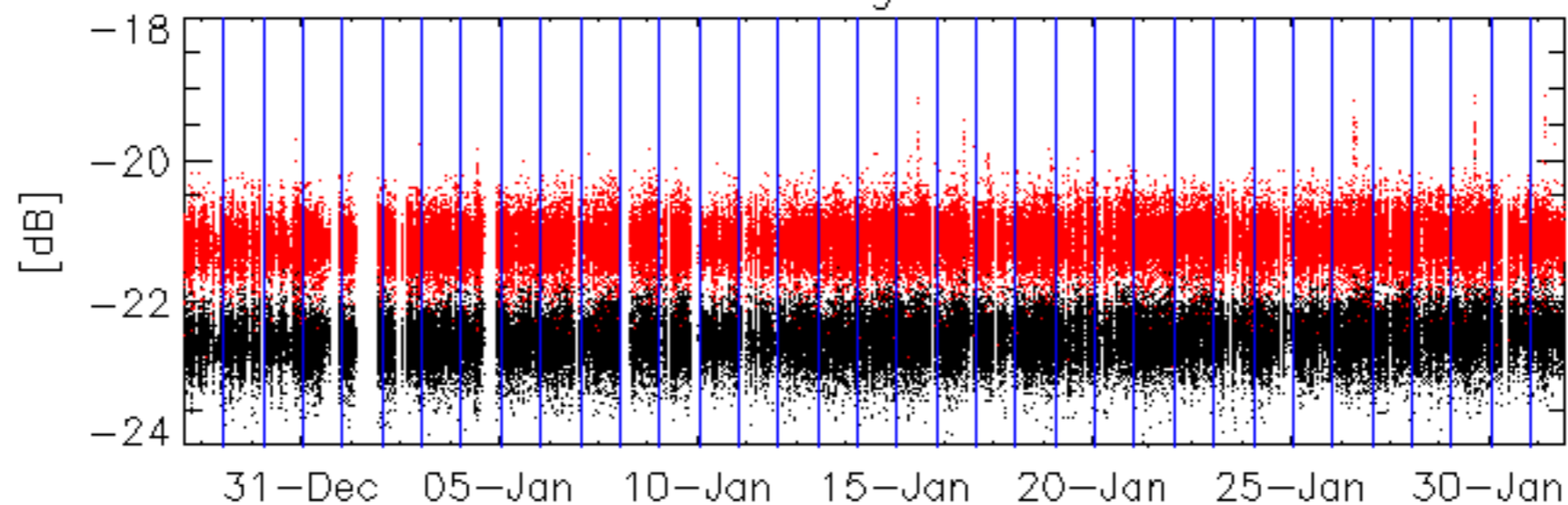
Evolution Doppler error versus ANX



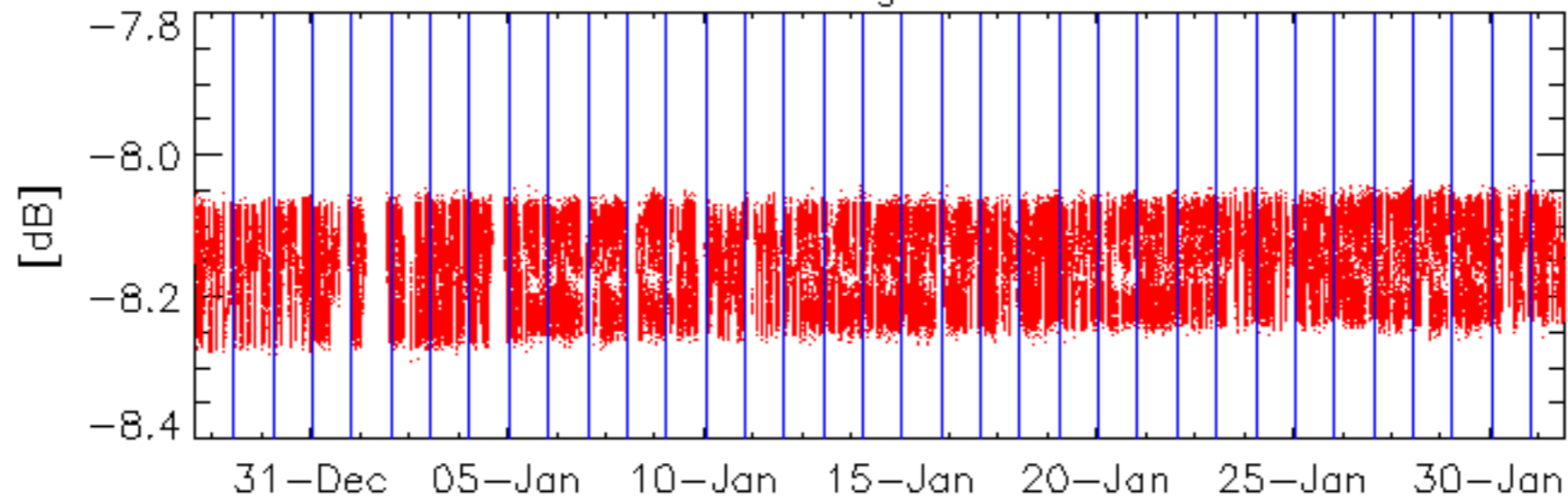
Average P1 (row 3 & row 24)



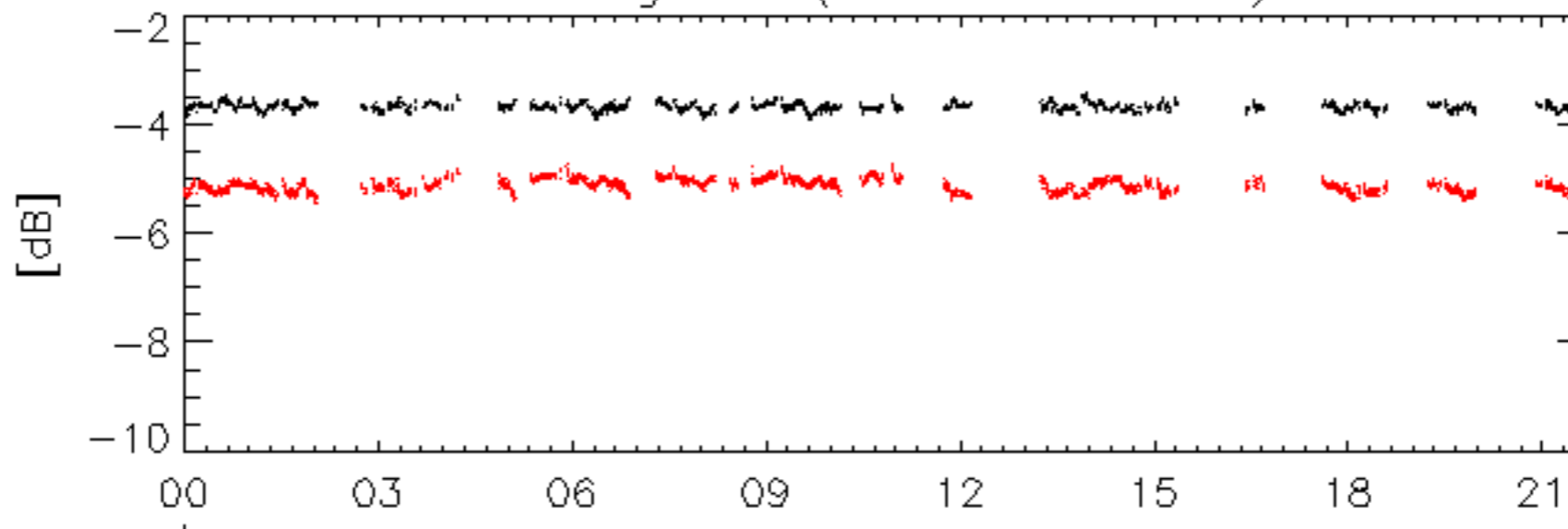
Average P2



Average P3

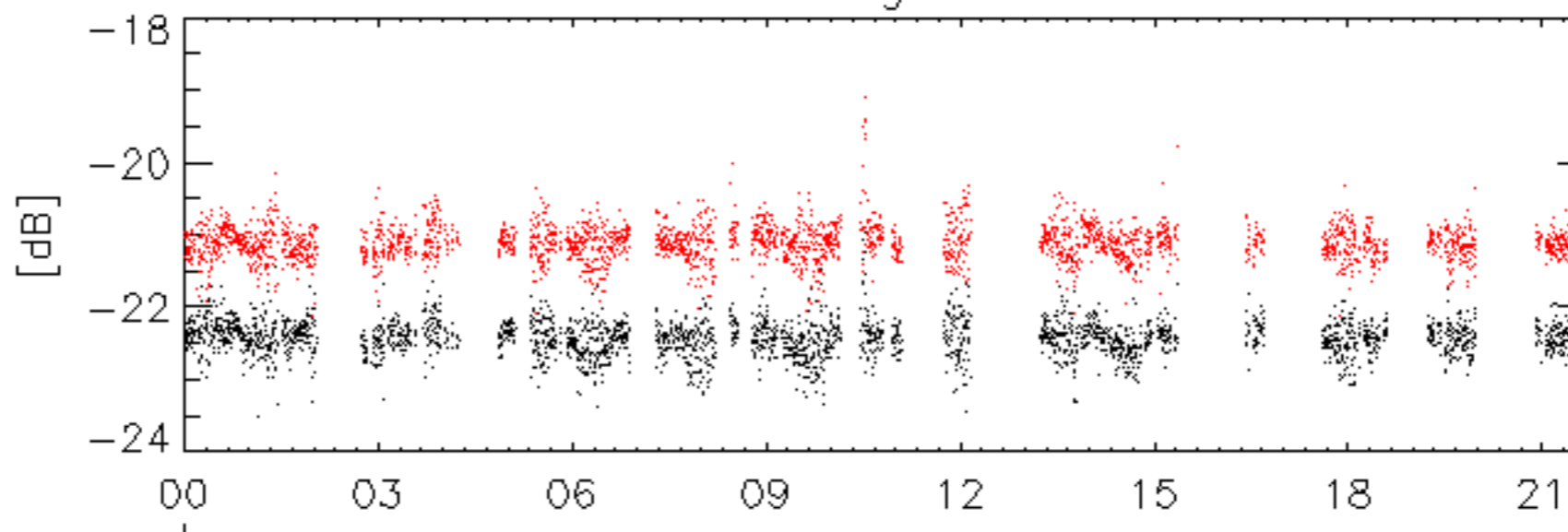


Average P1 (row 3 & row 24)



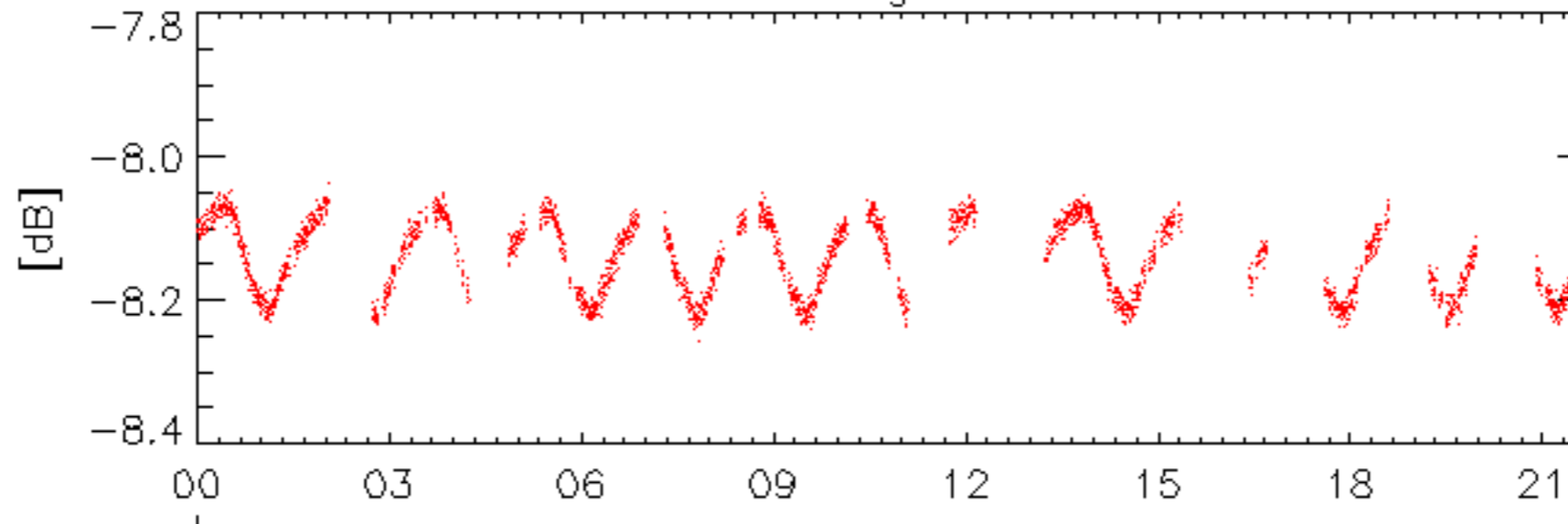
31-Jan

Average P2



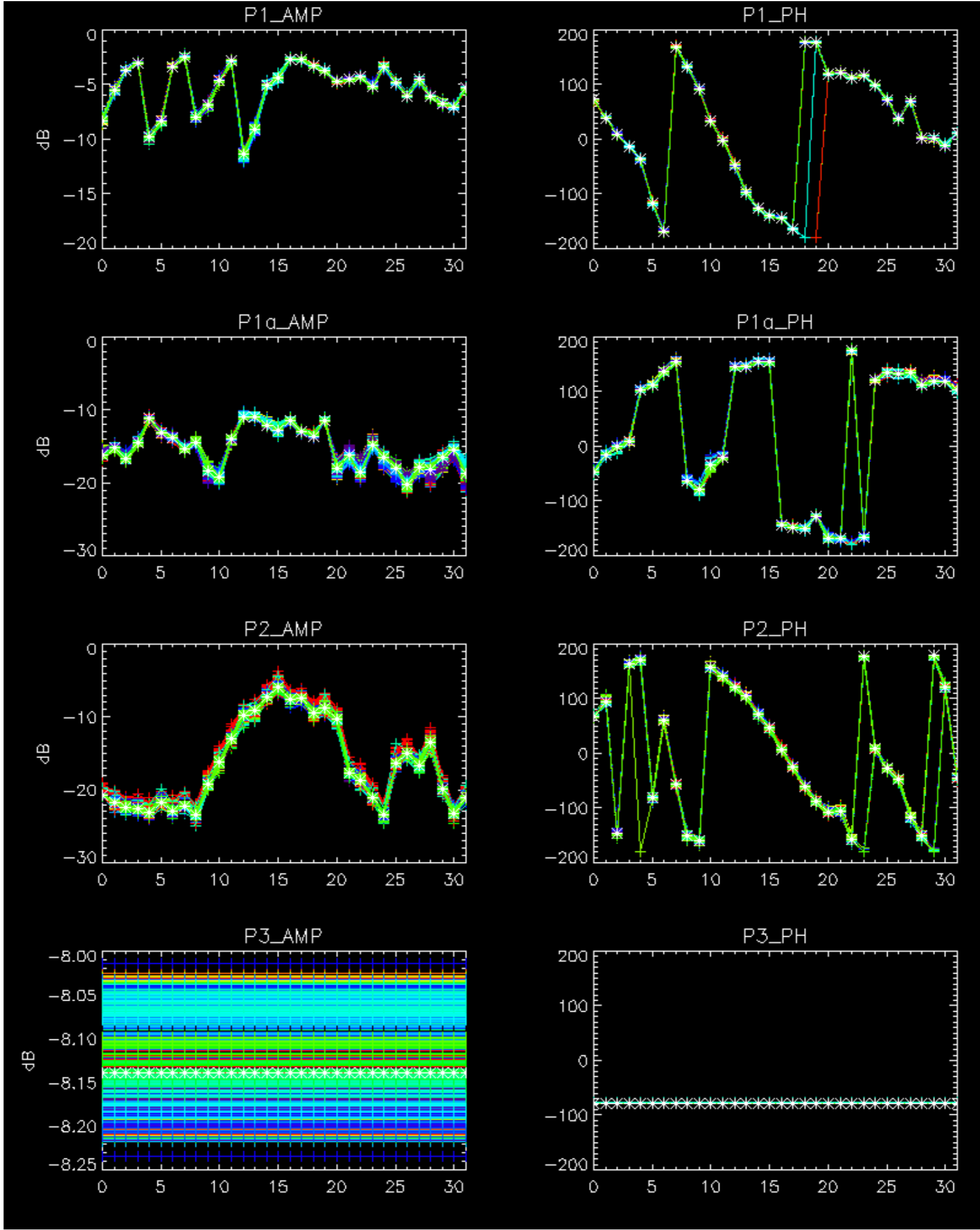
31-Jan

Average P3



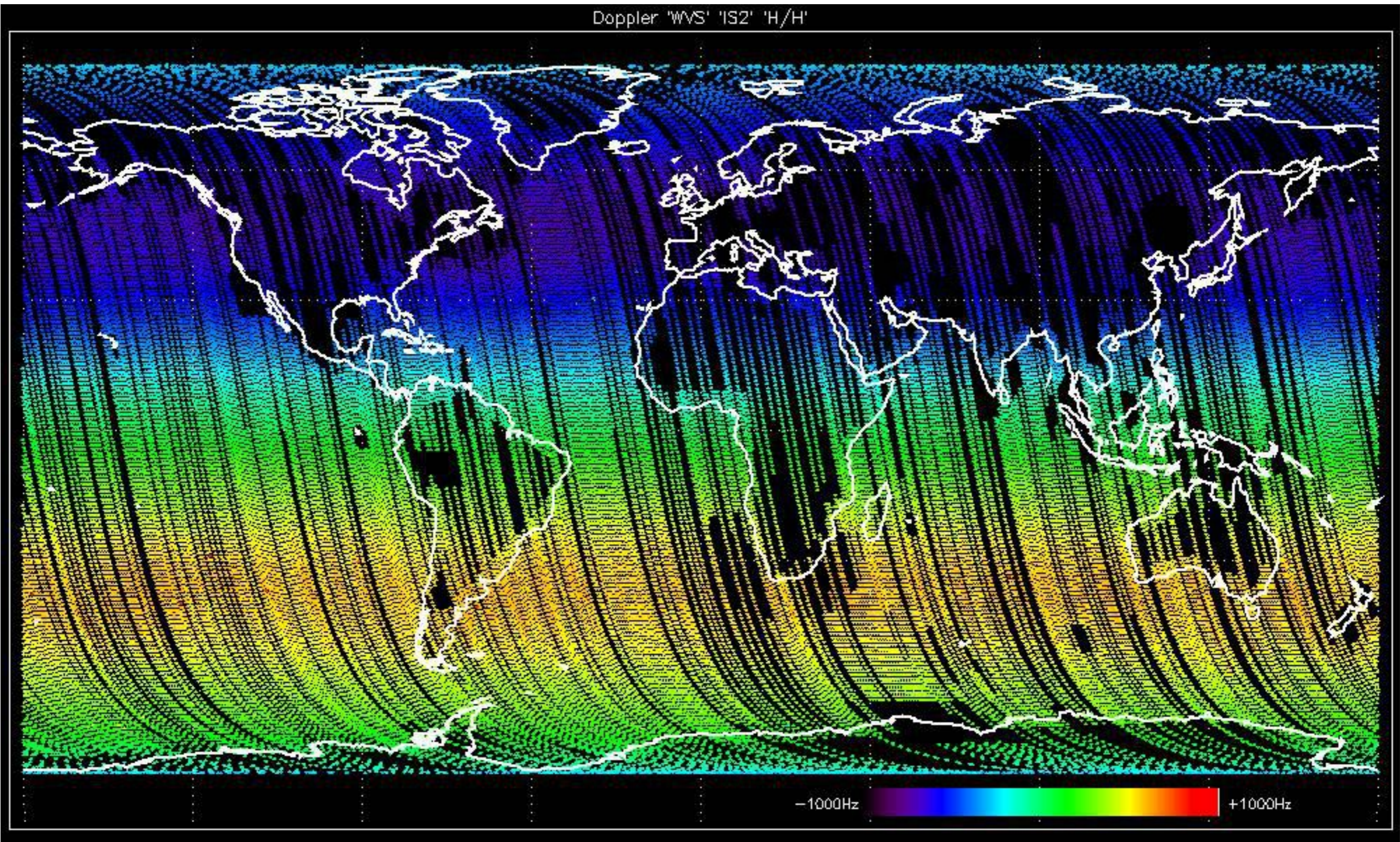
31-Jan

No anomalies observed.

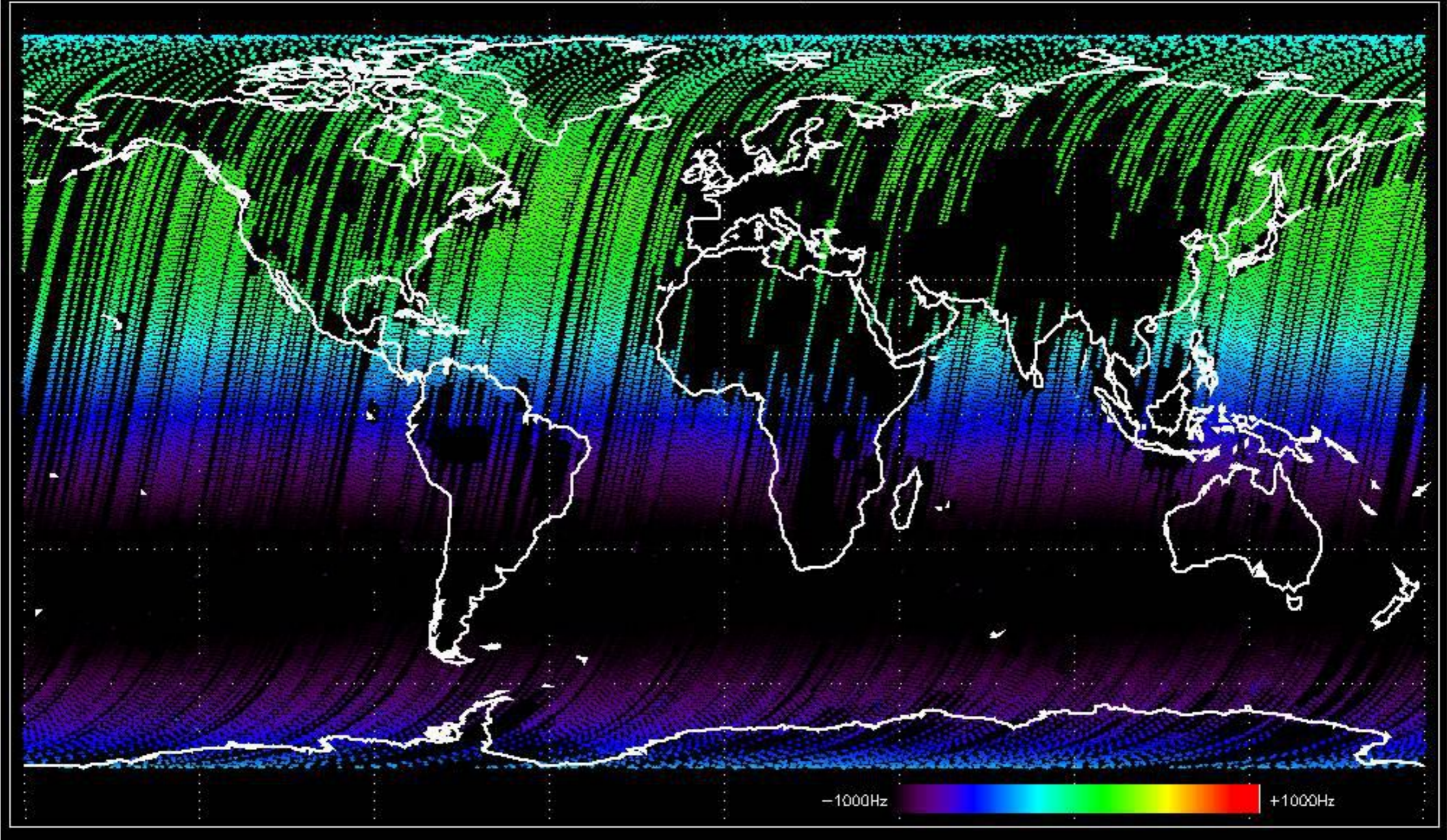


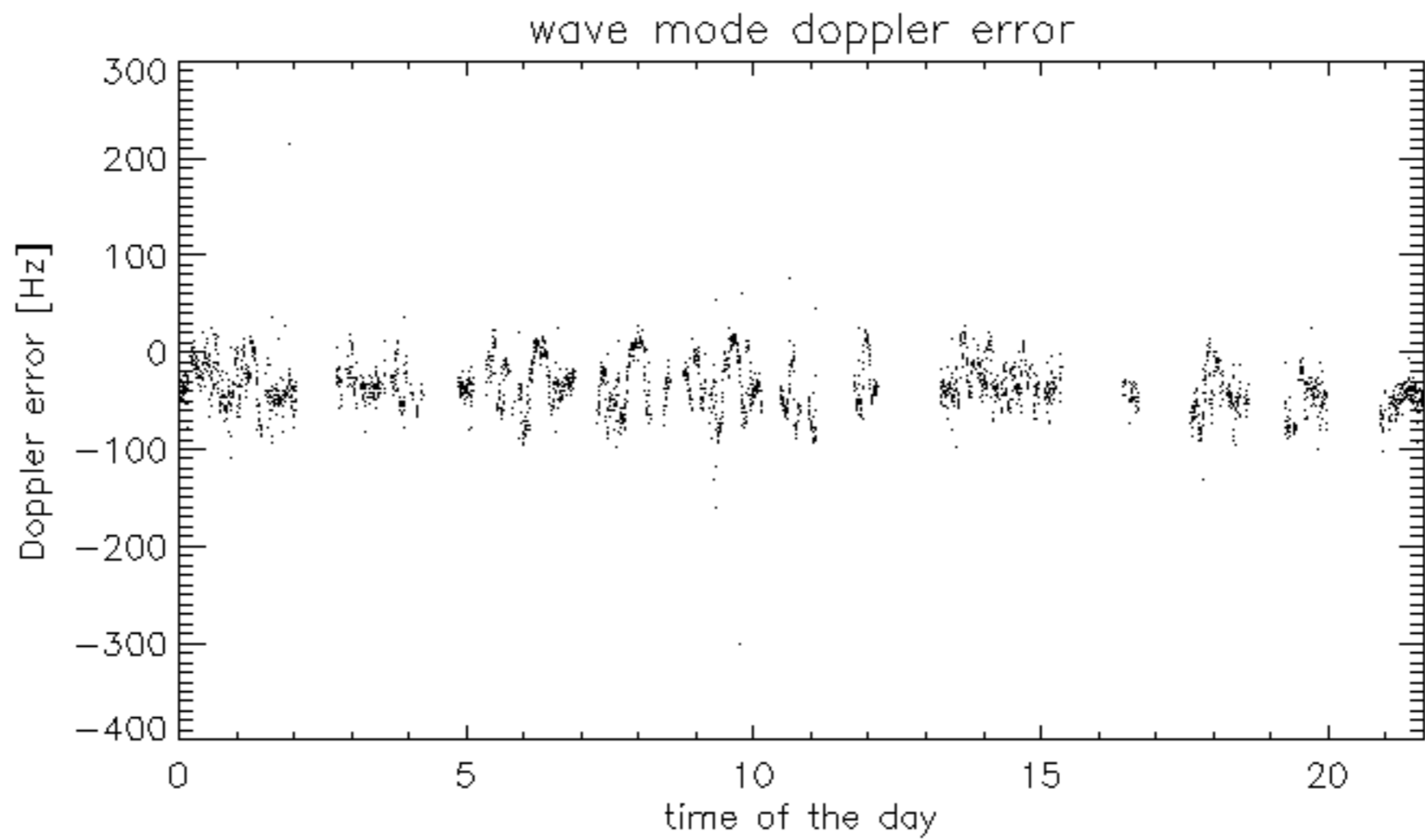
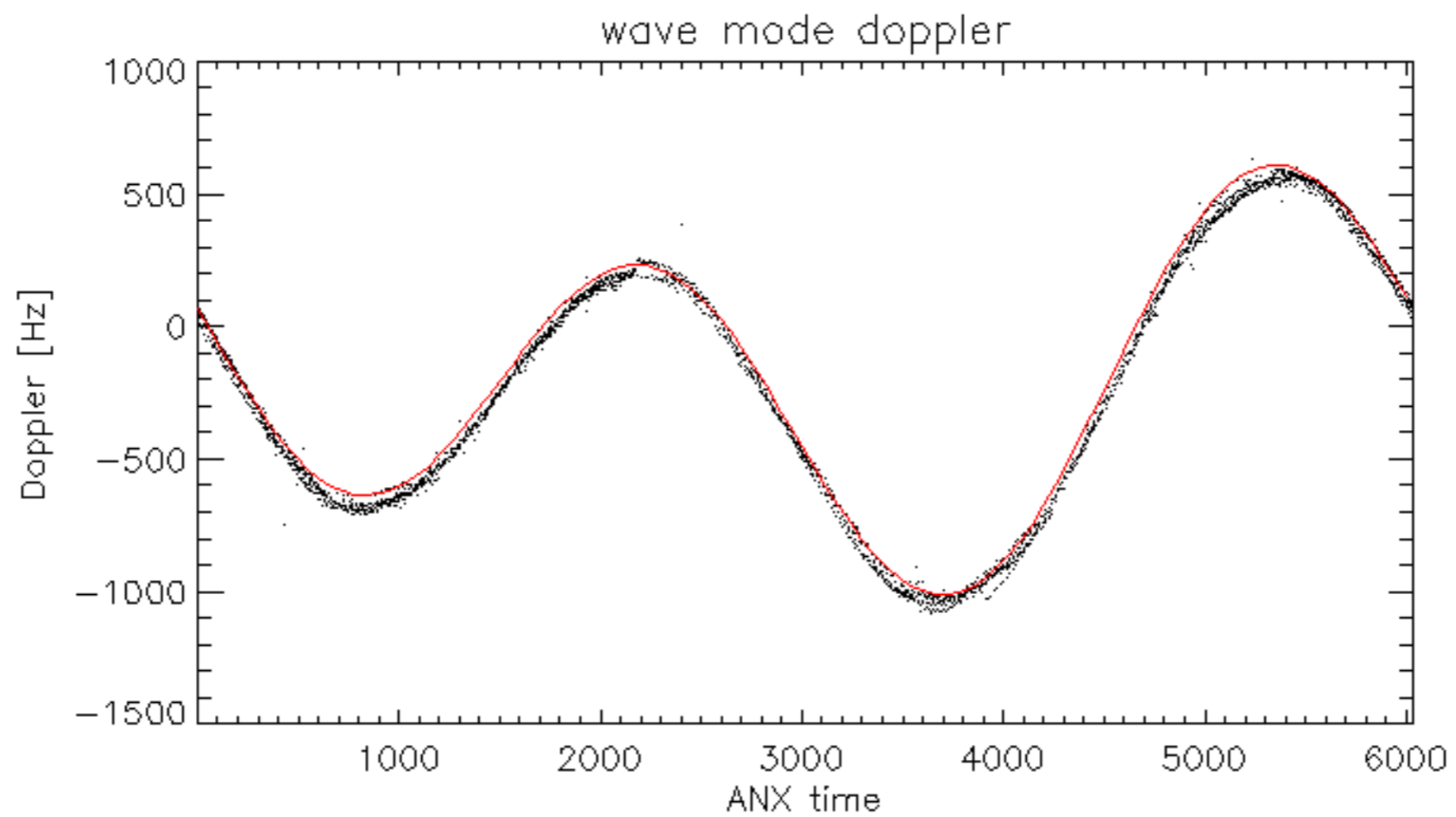
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- Nominal Doppler behavior.

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

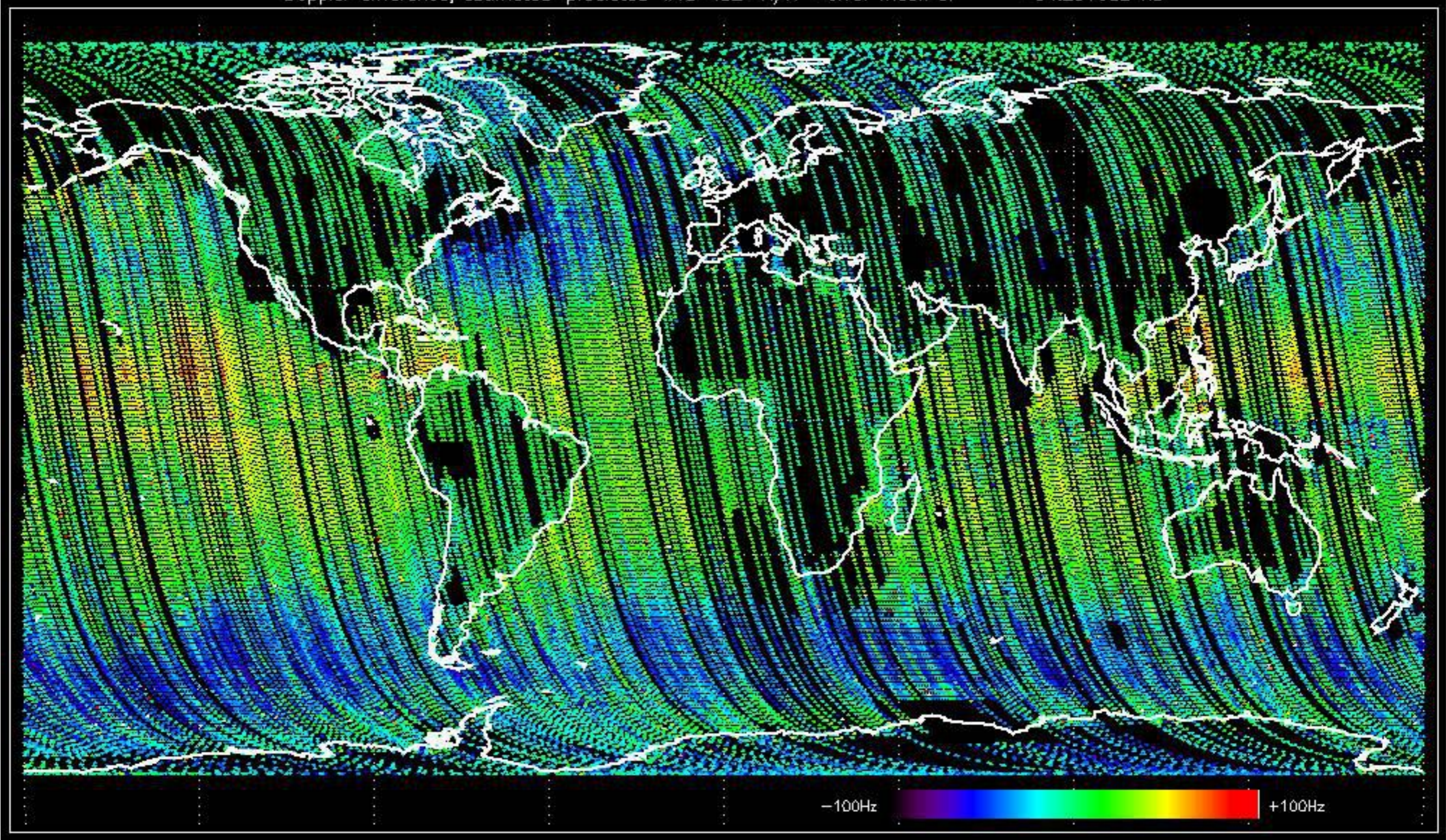


Doppler 'WVS' 'IS2' 'V/V'

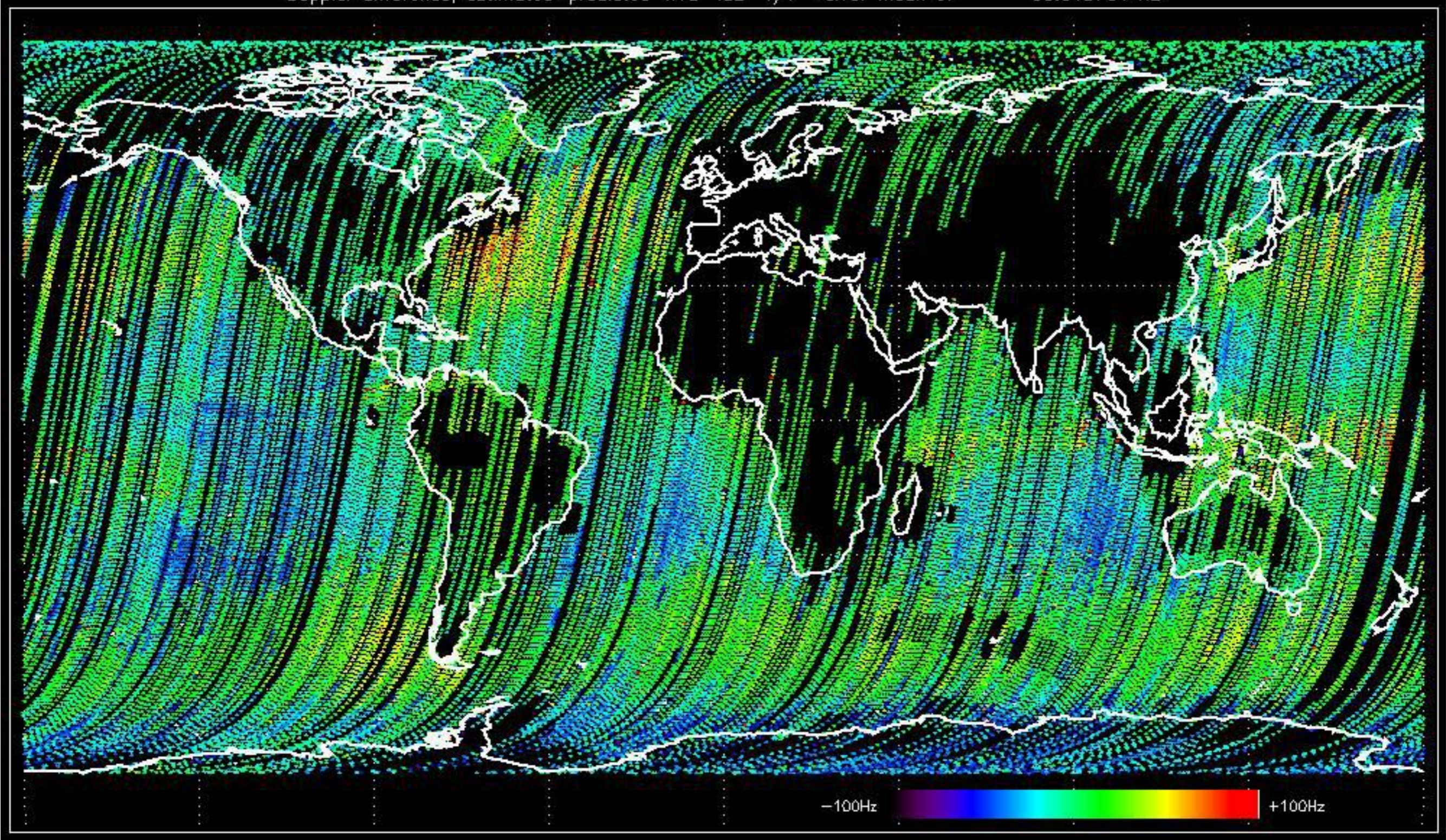




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -34.291682 Hz

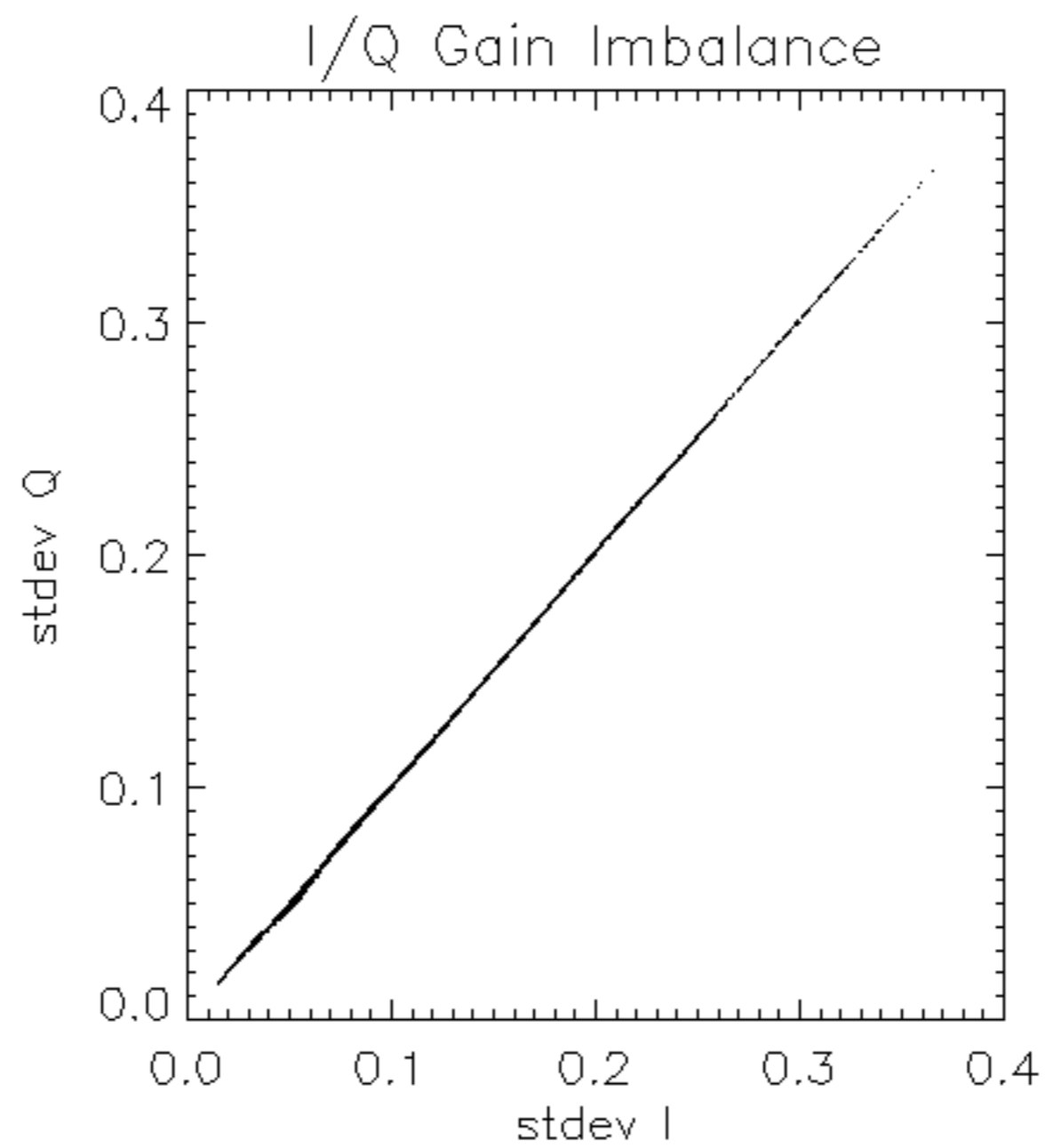


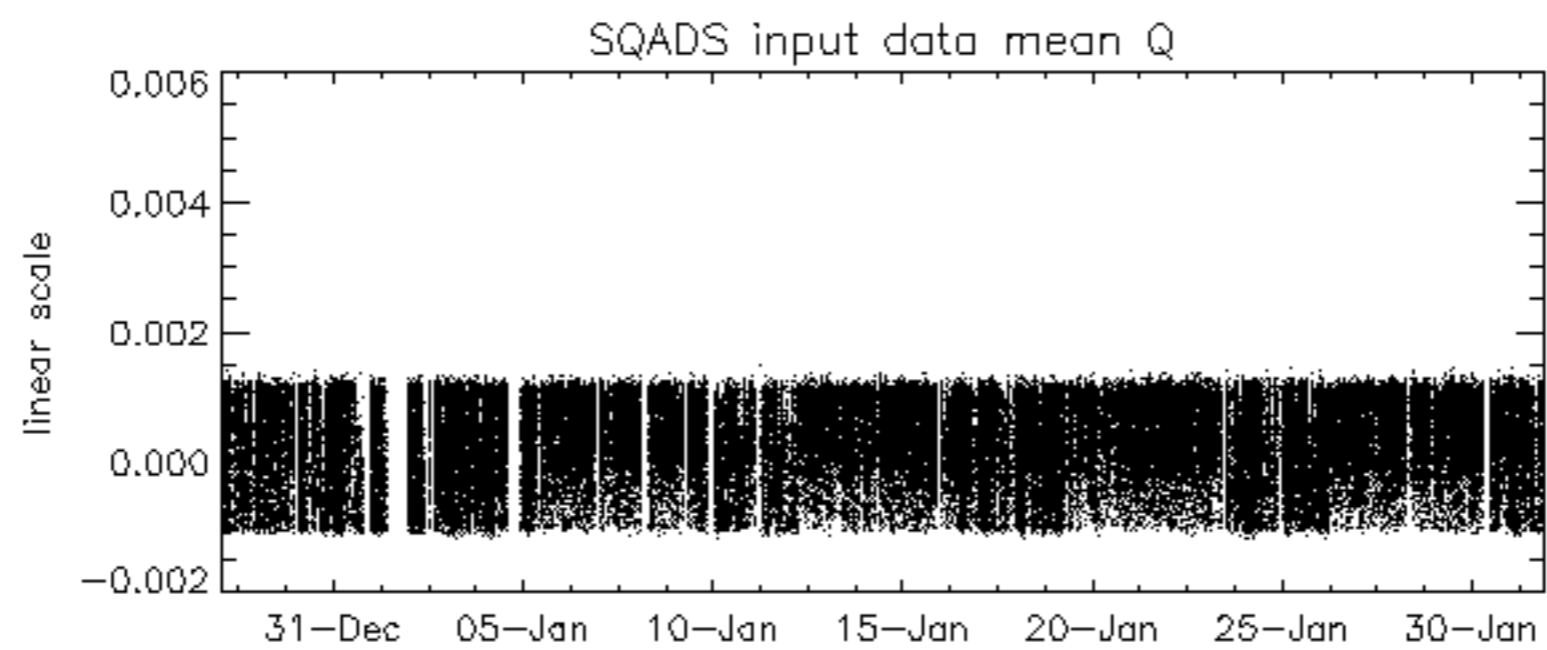
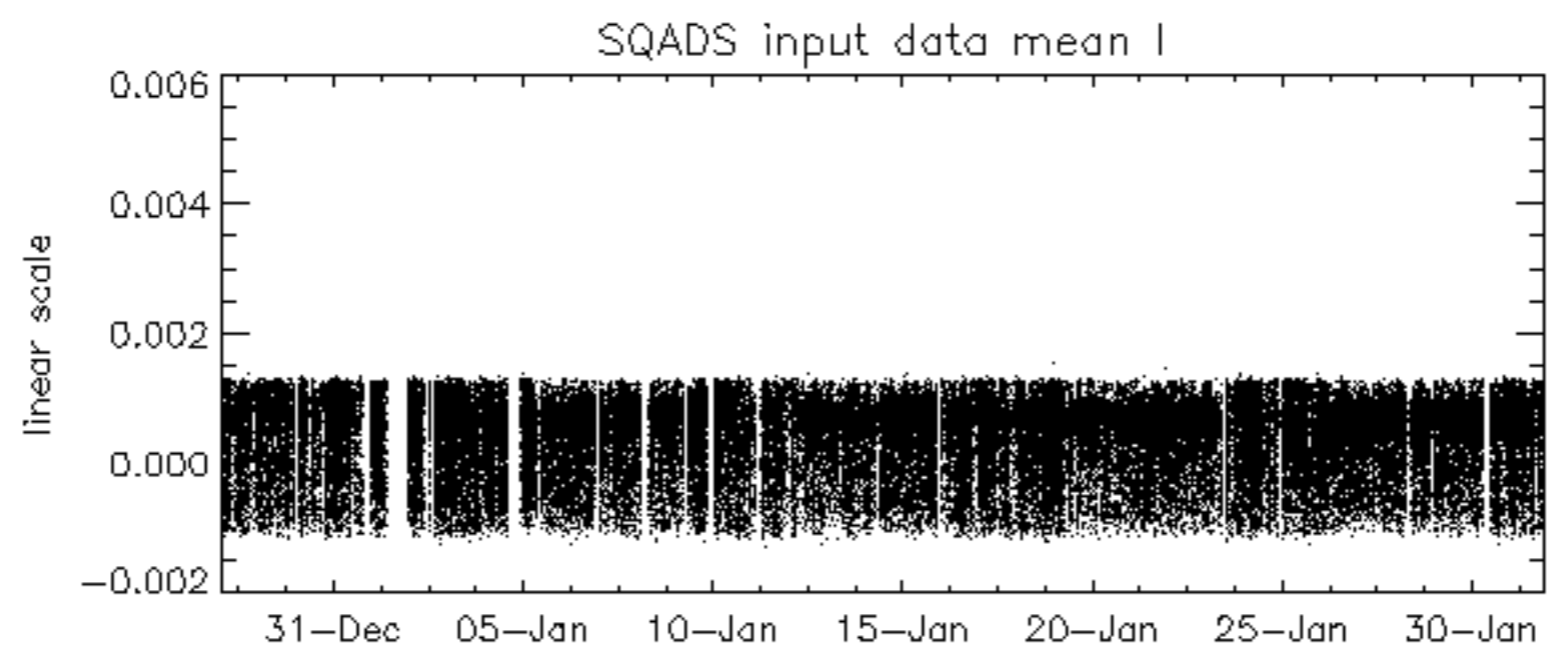
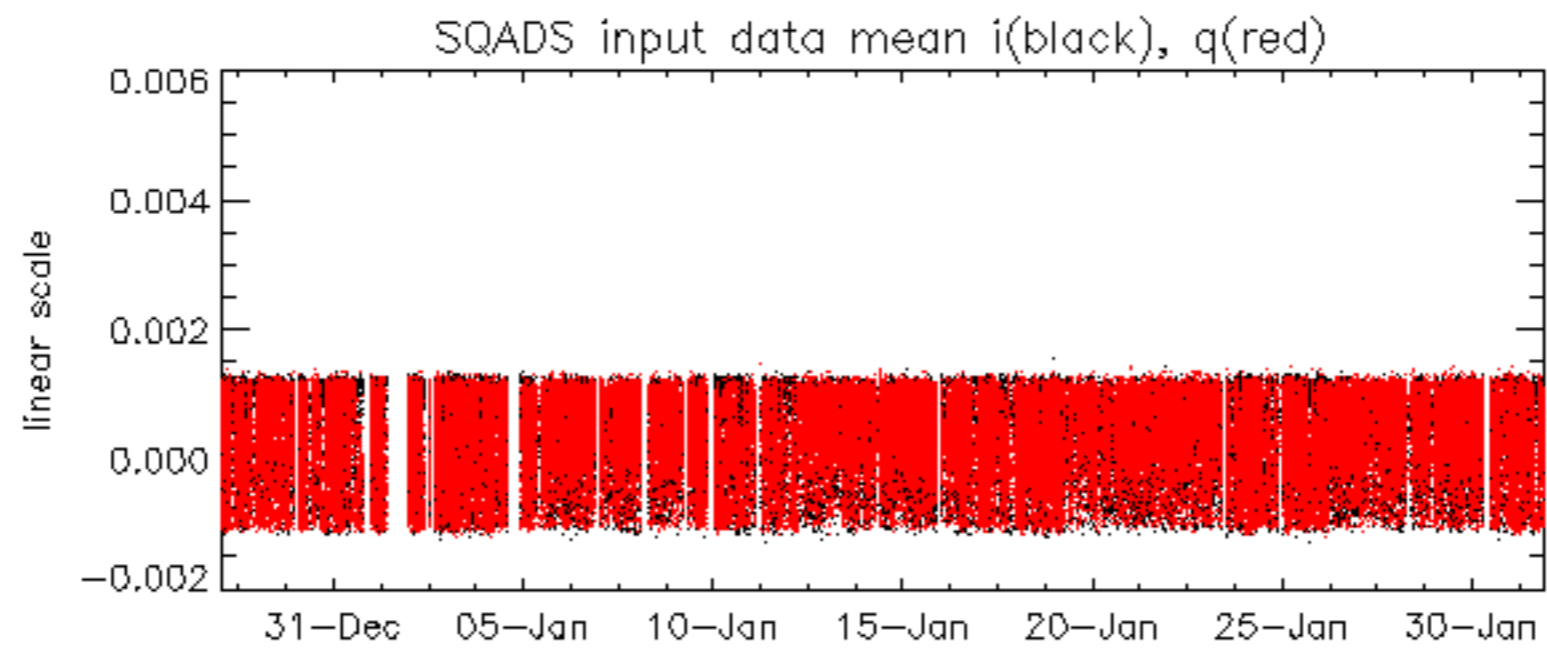
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -33.515764 Hz

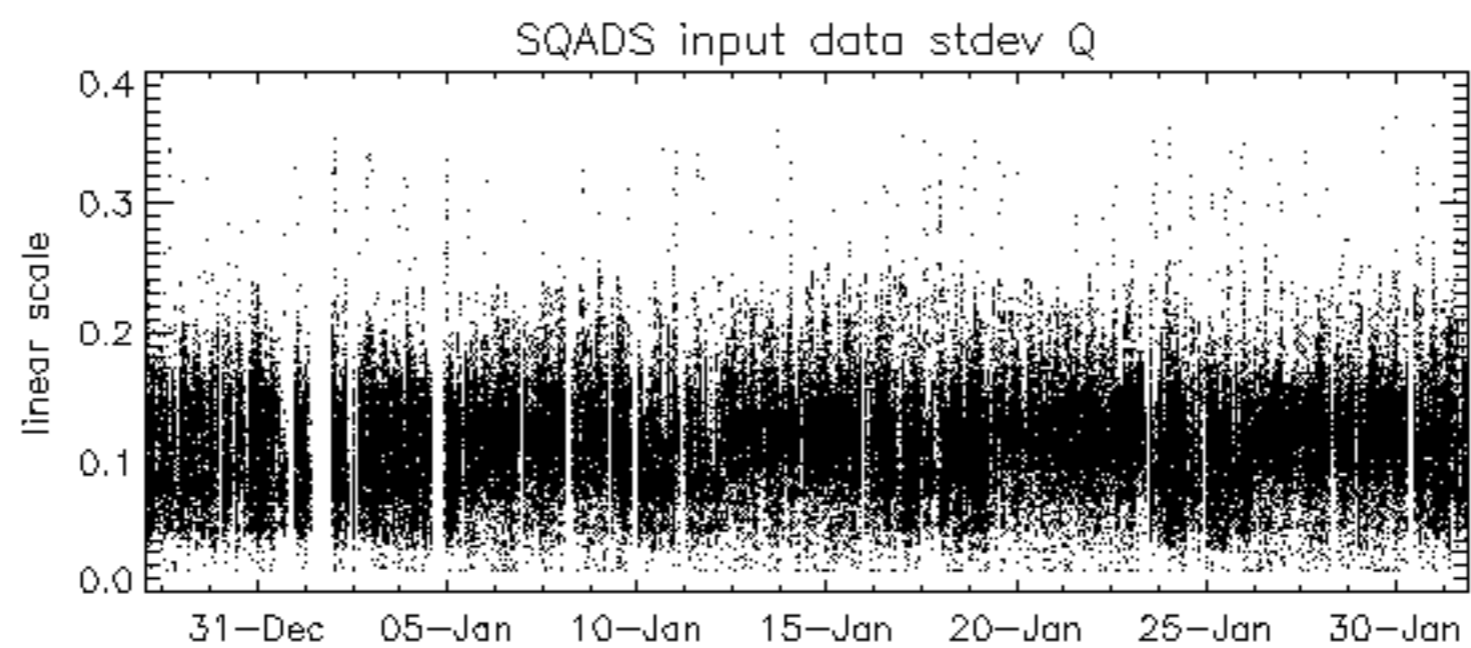
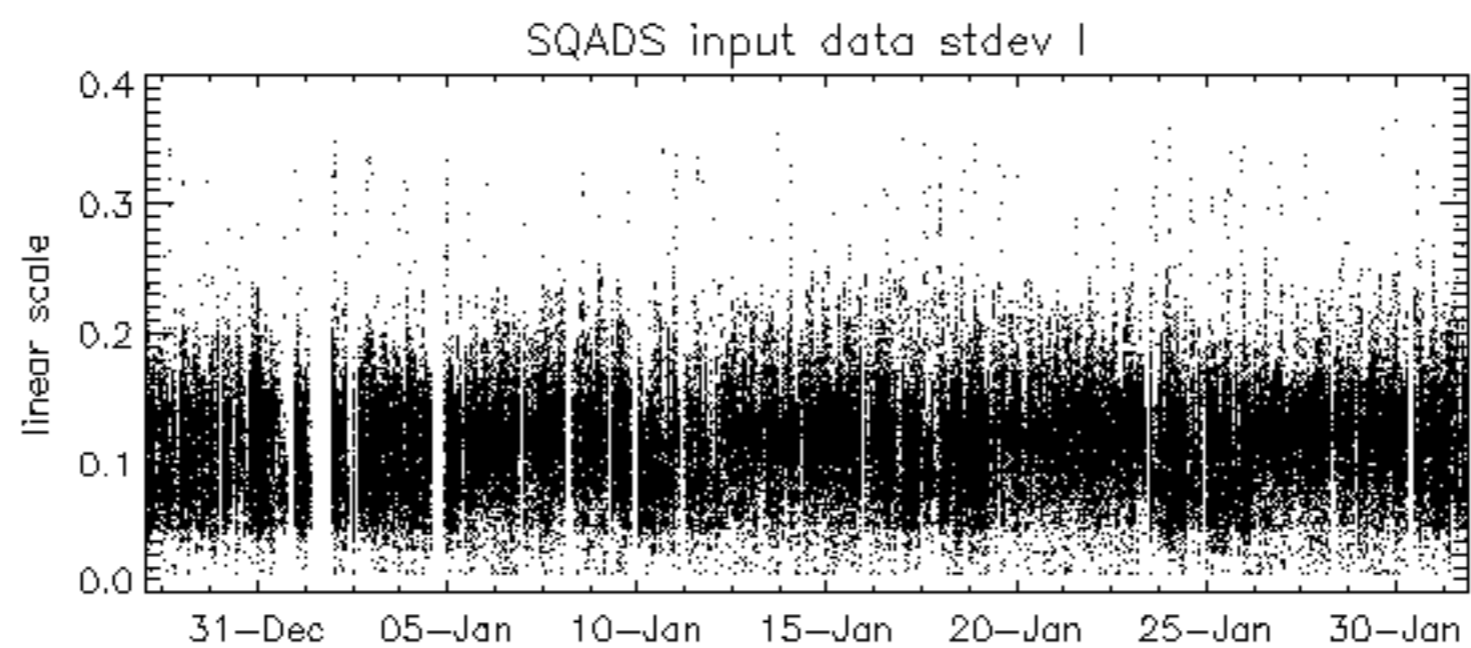
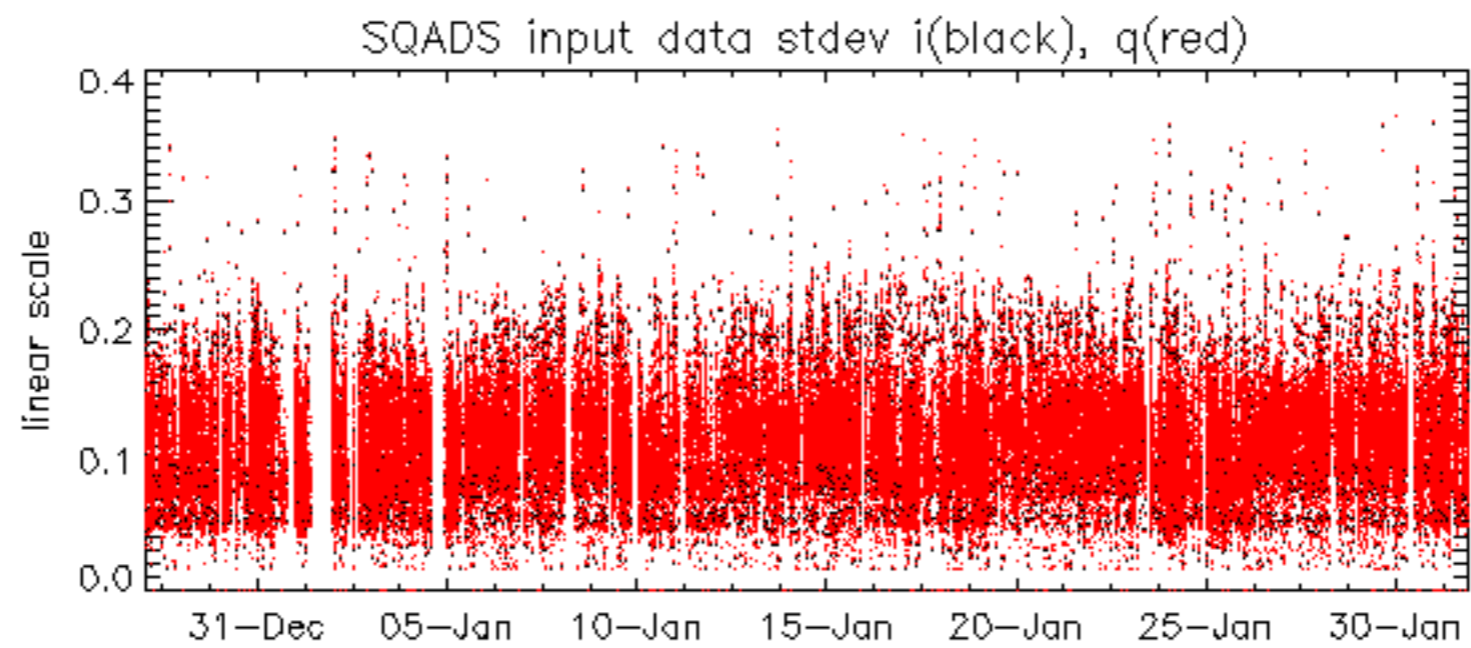


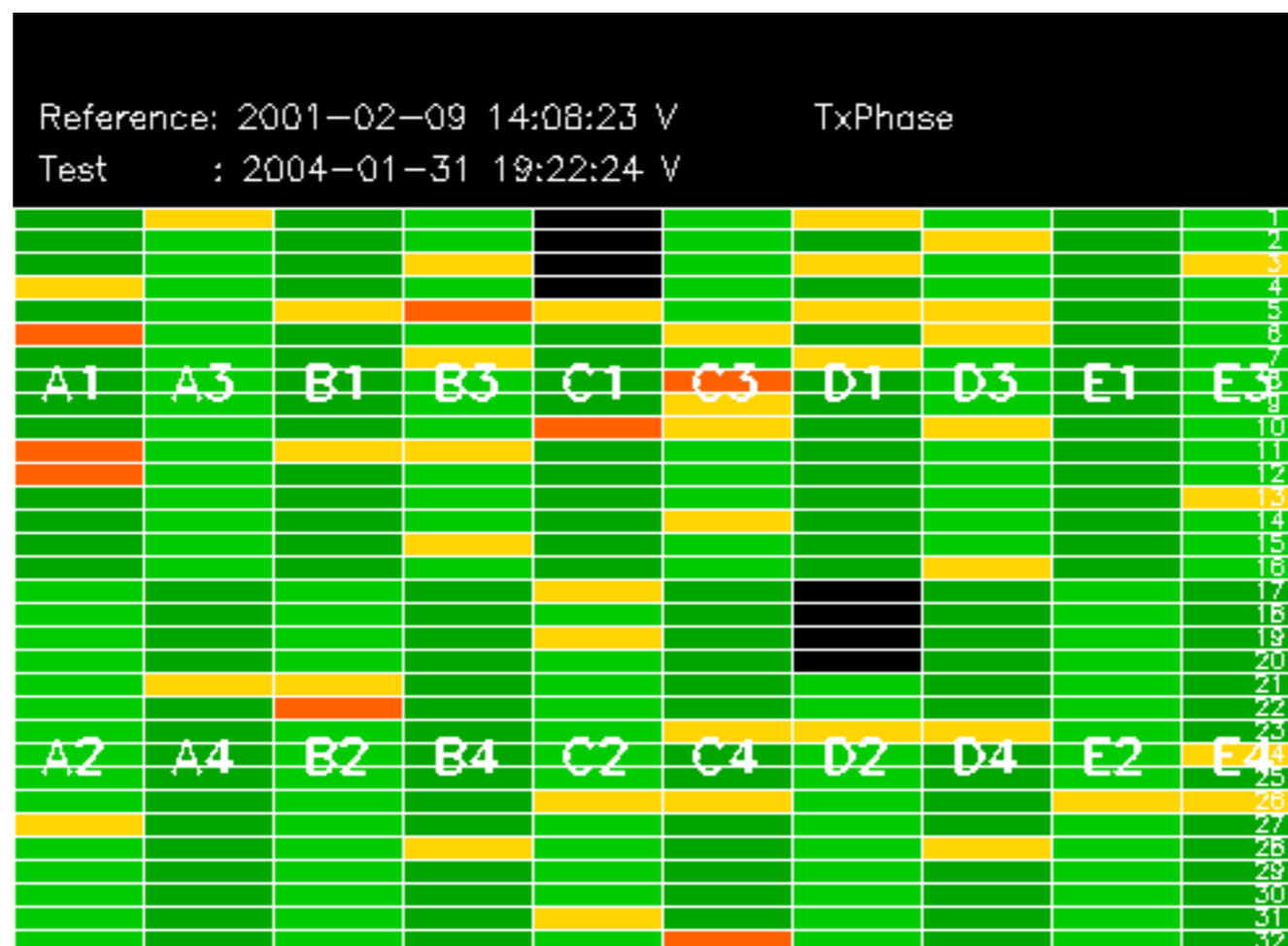
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