

PRELIMINARY REPORT OF 040131

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

1. [Introduction](#)
2. [Summary](#)
 - [Instrument Unavailability](#)
 - [Browse Visual Inspection](#)
 - [Module Stepping Results](#)
 - [Data Analysis](#)
3. [Module Stepping](#)
4. [Internal Calibration pulses](#)
 - [Daily statistics \(row 3 and 24\)](#)
 - [Cyclic statistics \(row 3 and 24\)](#)
 - [cal pulses monitoring \(all rows\)](#)
5. [Raw Data Statistics](#)
 - [raw data mean I and Q](#)
 - [raw data stdev I and Q](#)
 - [raw gain imbalance](#)
6. [Wave Doppler analysis](#)
 - [Doppler evolution versus ANX](#)

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	20040130 195401
H	20040129 202418

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	-3.66915	-22.4179	-8.14333
	stdev	0.00629897	0.0673333	0.00292496

24	mean	-5.14885	-21.1200	-8.14333
	stdev	0.0127108	0.0633928	0.00292496



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.69272	-22.5024	-8.15273
	stdev	0.00713241	0.0709806	0.00324174
24	mean	-5.23468	-21.1331	-8.15273
	stdev	0.572804	0.0650956	0.00324174



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	0.000425090
	stdev	2.95581e-07
MEAN Q	mean	0.000329771
	stdev	3.47990e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.116813
	stdev	0.00137713

STDEV Q	mean	0.117046
	stdev	0.00139155



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

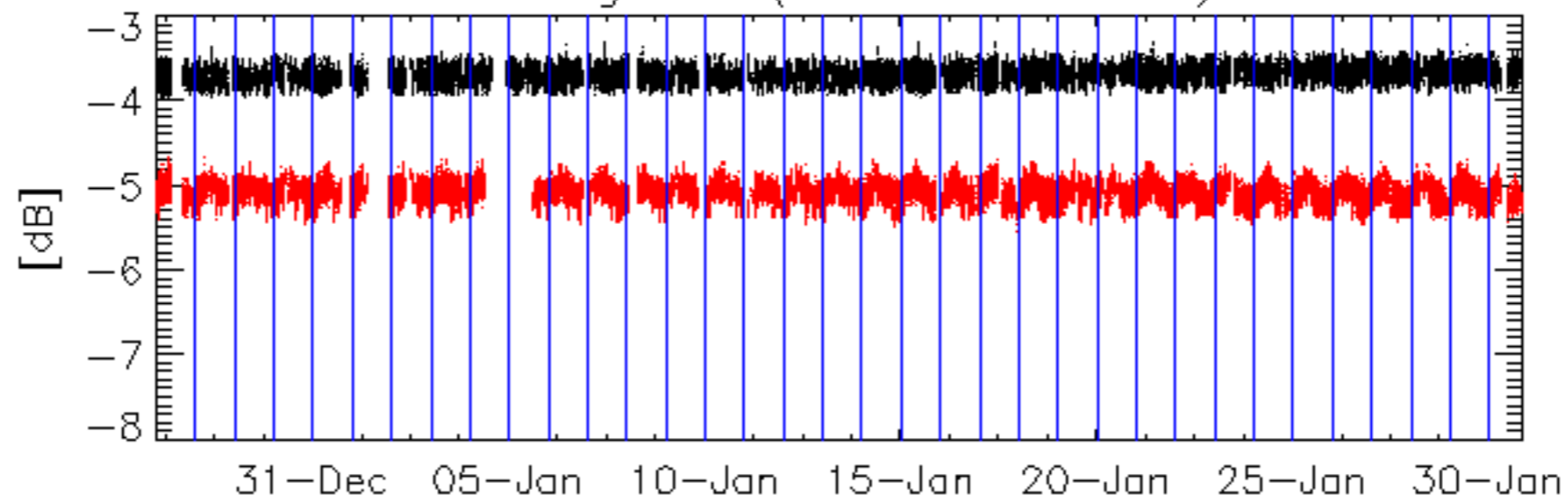
Preliminary report. The data is not yet controlled

6.1 - Doppler evolution versus ANX

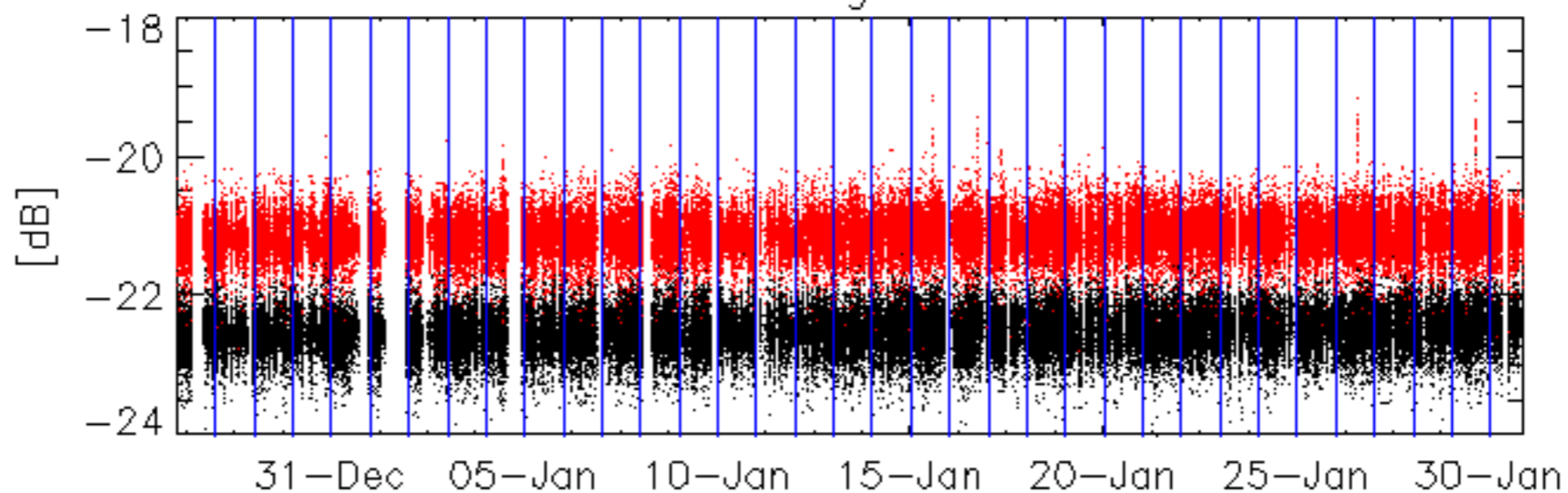
Evolution Doppler error versus ANX



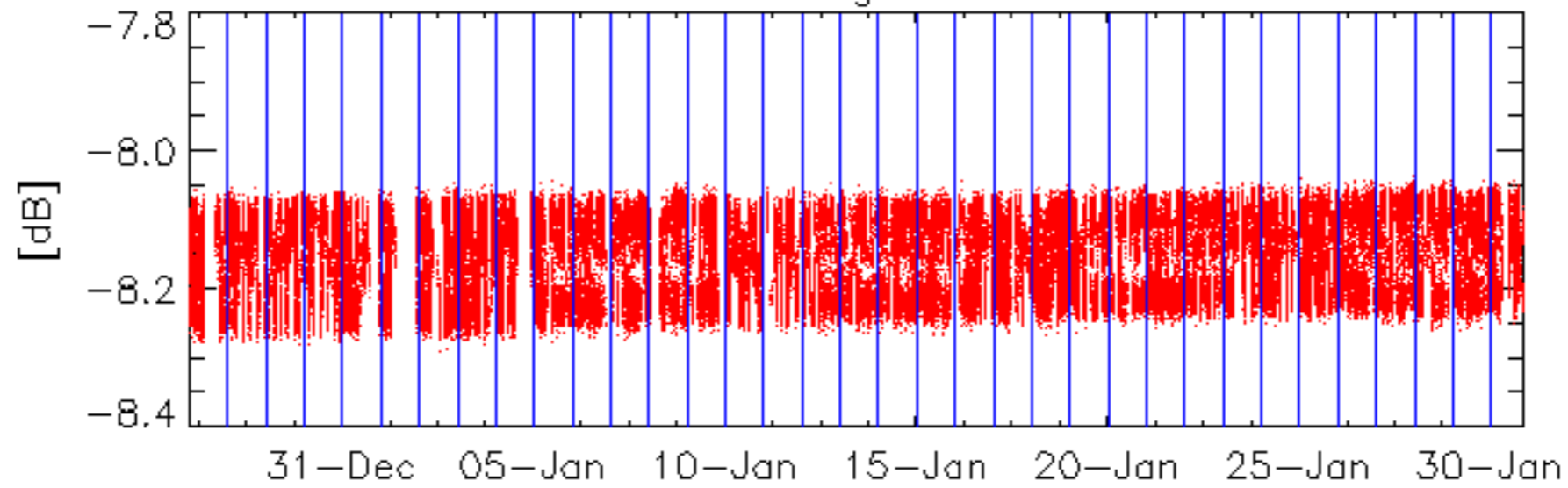
Average P1 (row 3 & row 24)



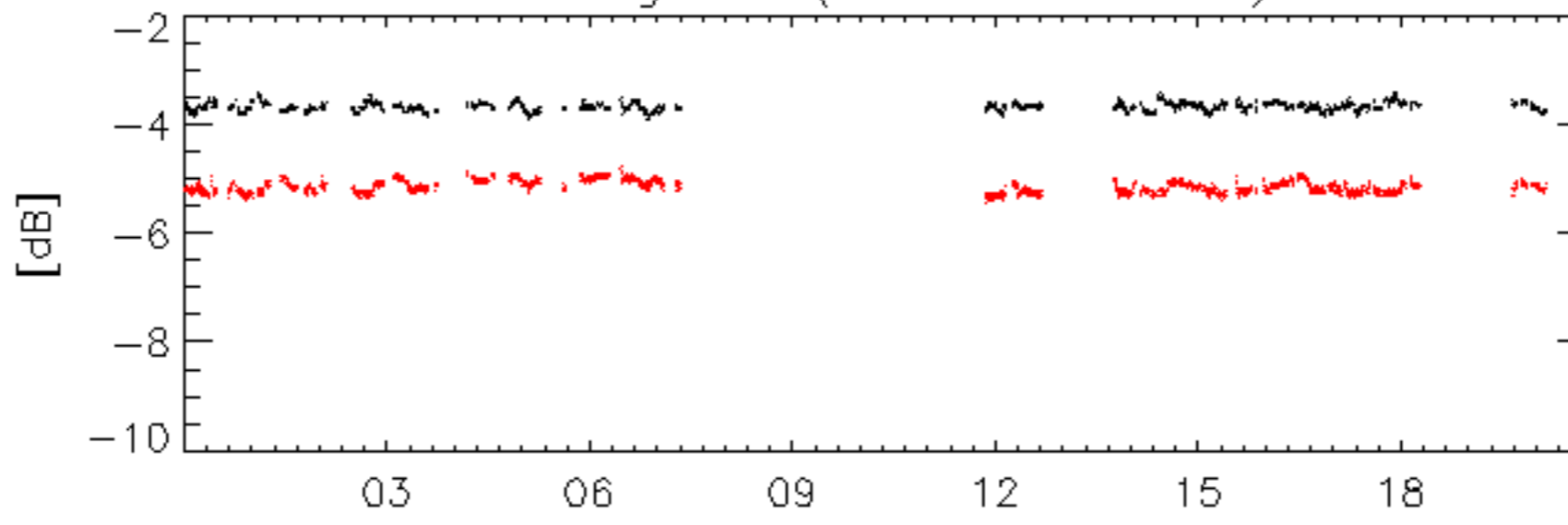
Average P2



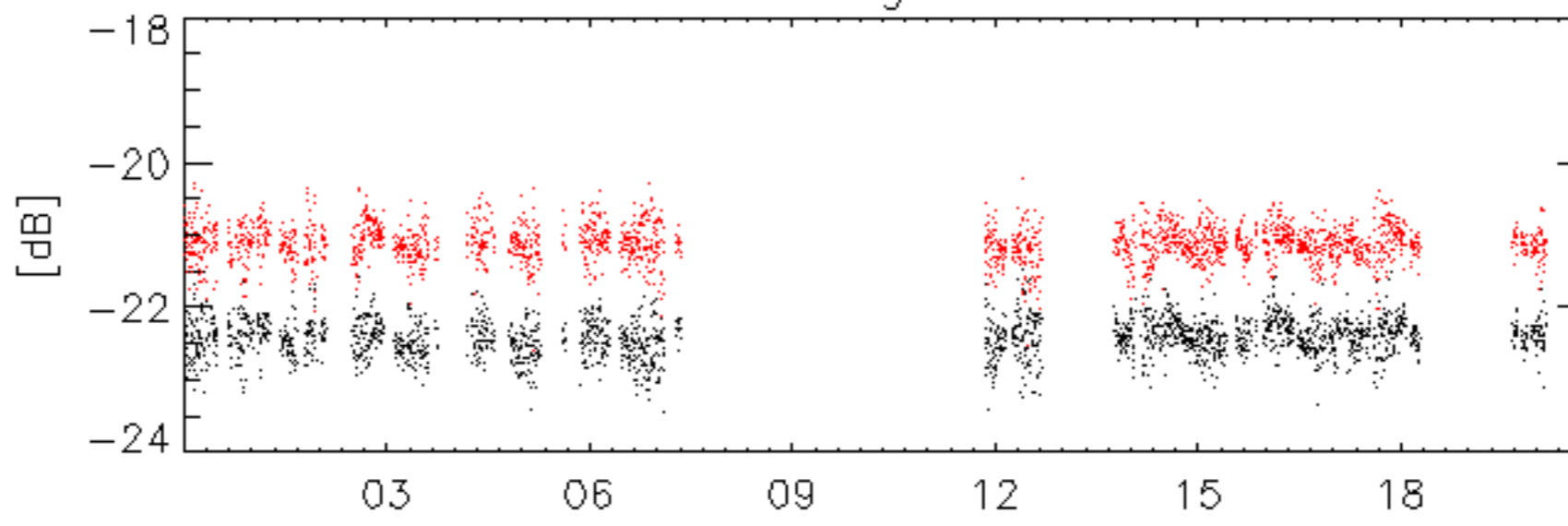
Average P3



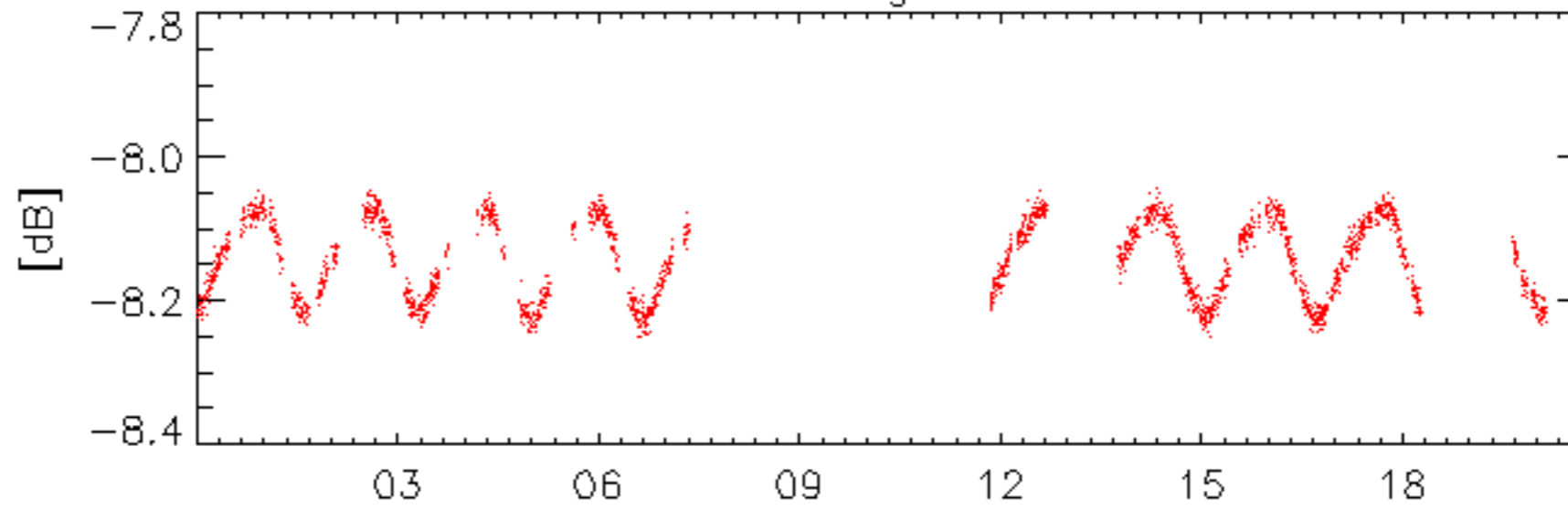
Average P1 (row 3 & row 24)



30-Jan
Average P2

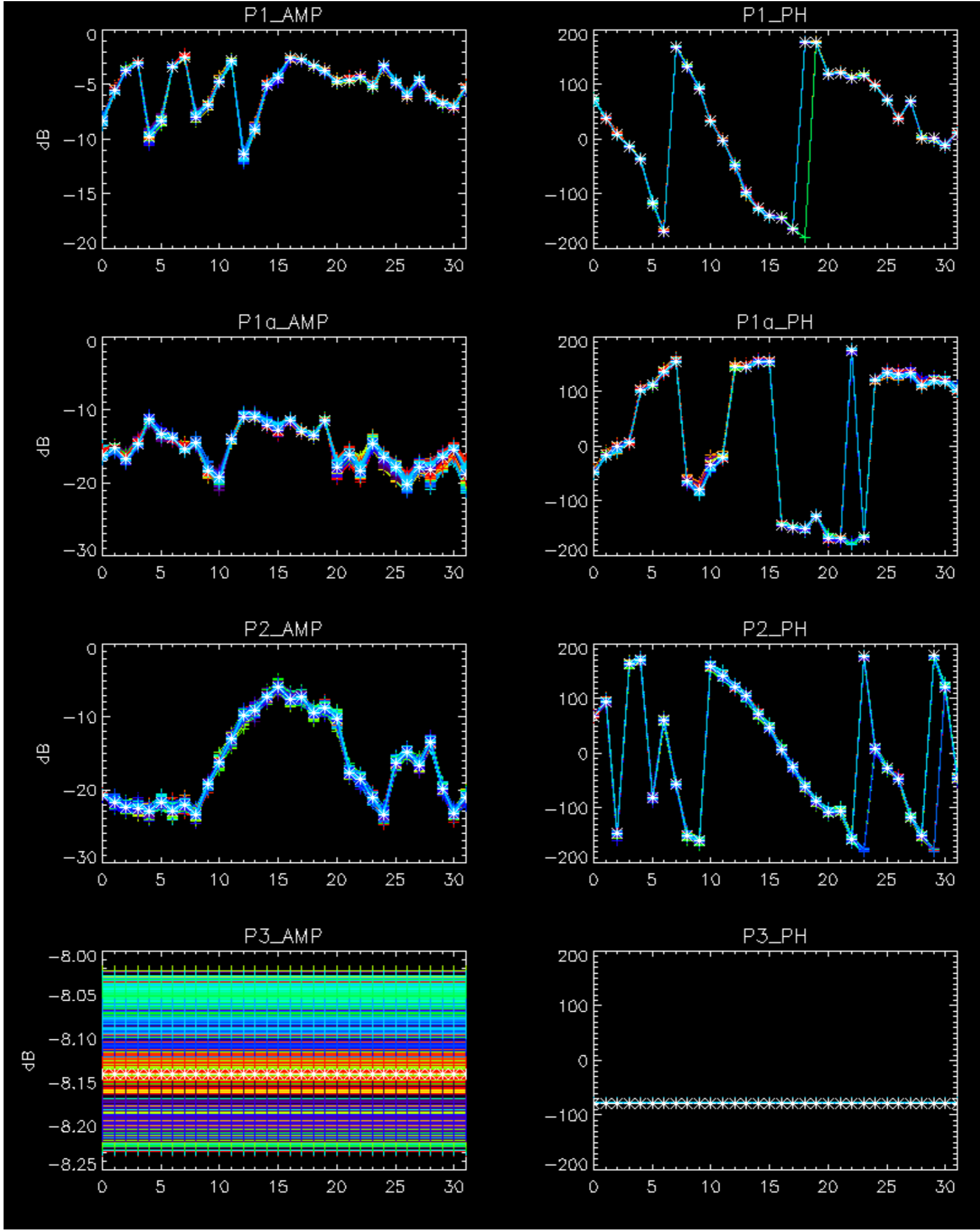


30-Jan
Average P3



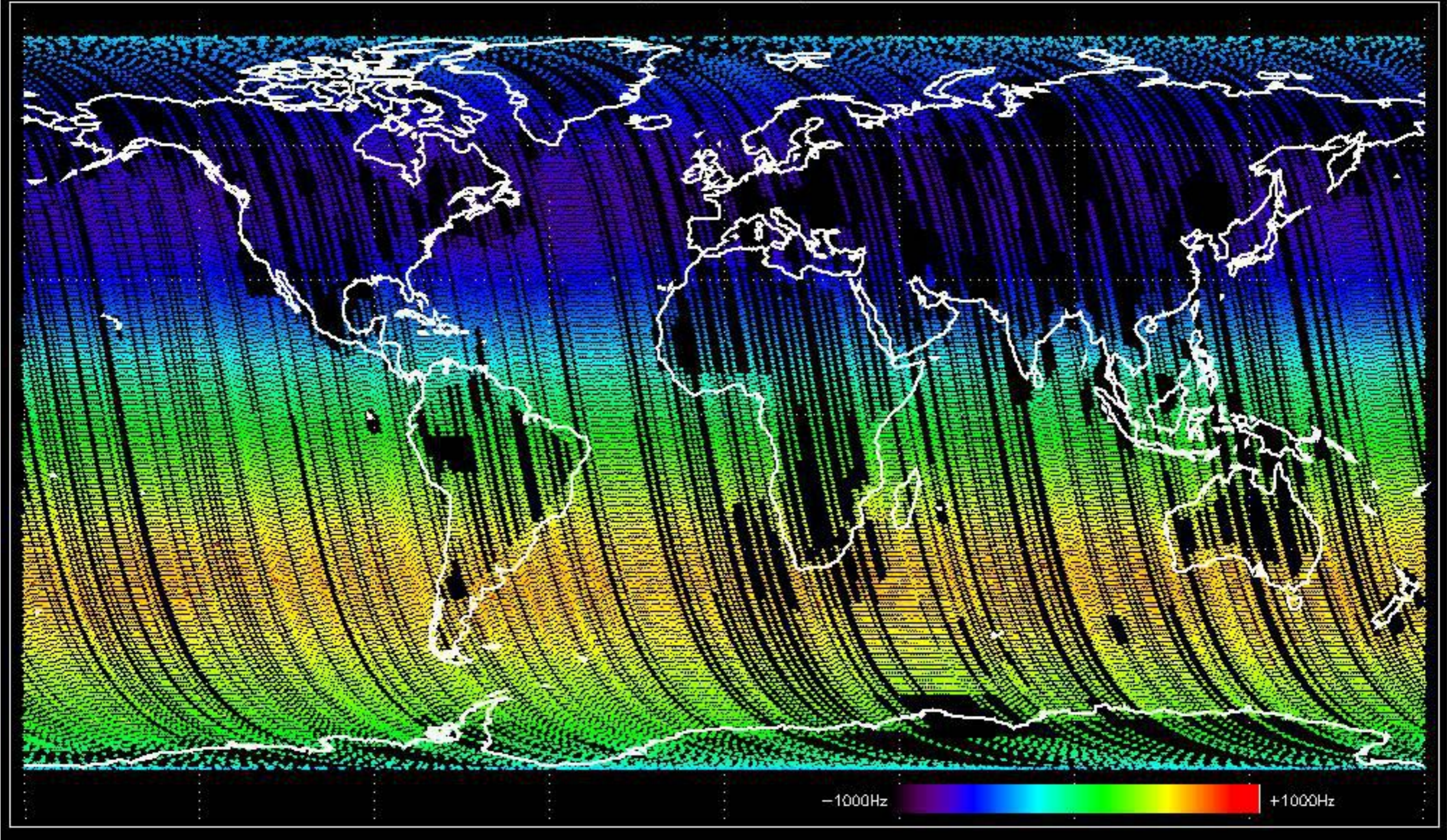
30-Jan

No anomalies observed.

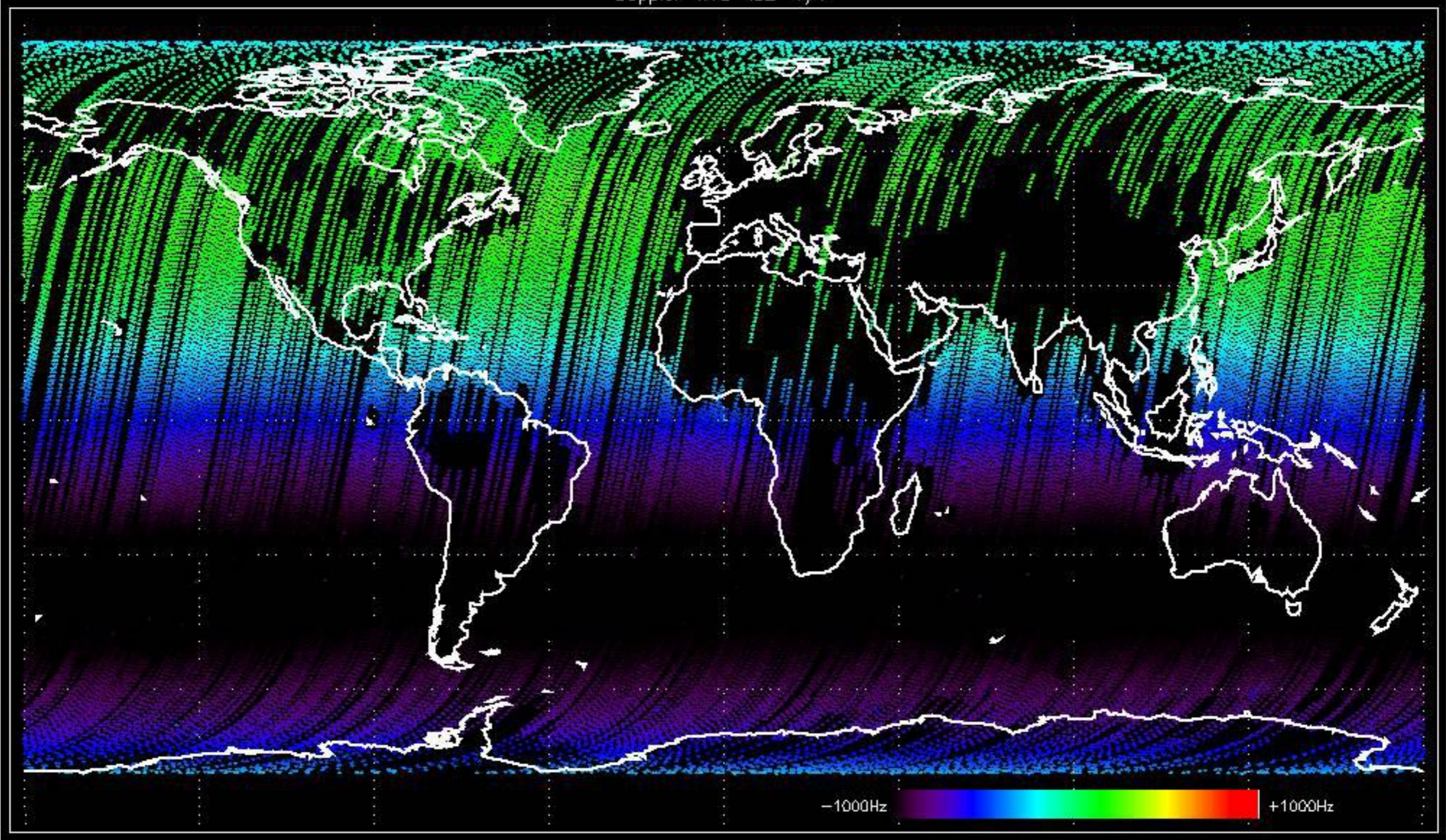


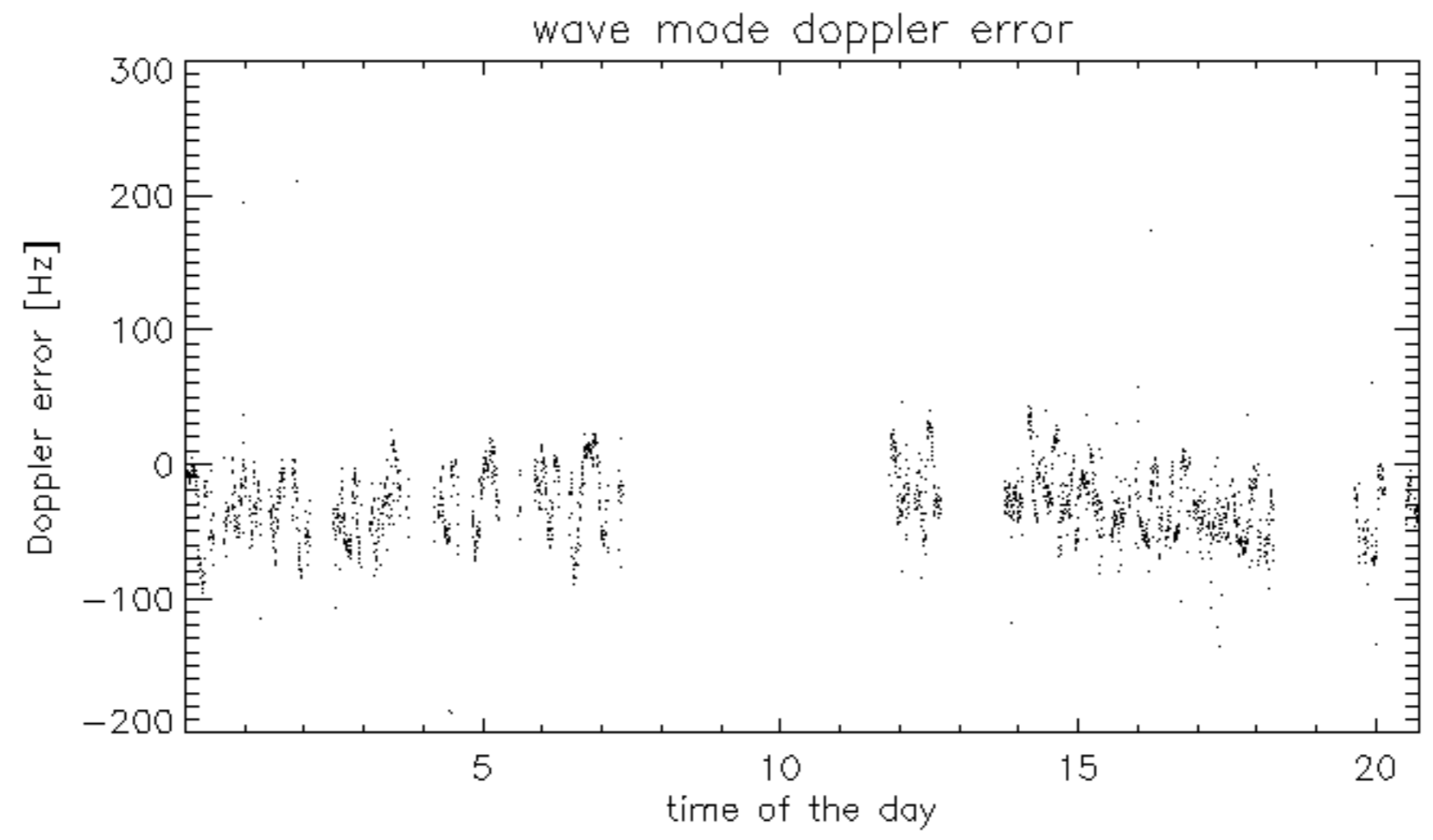
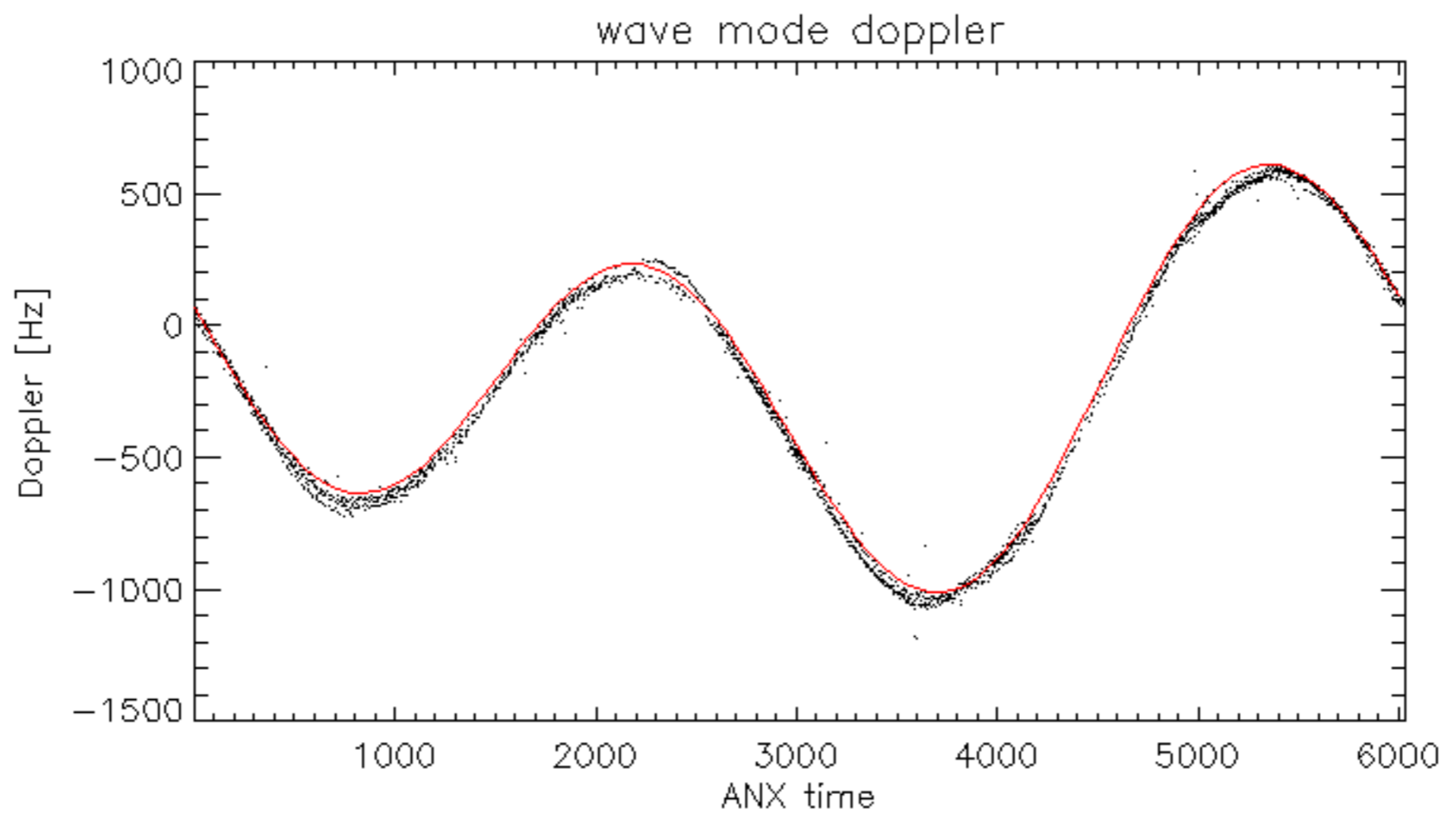
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

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

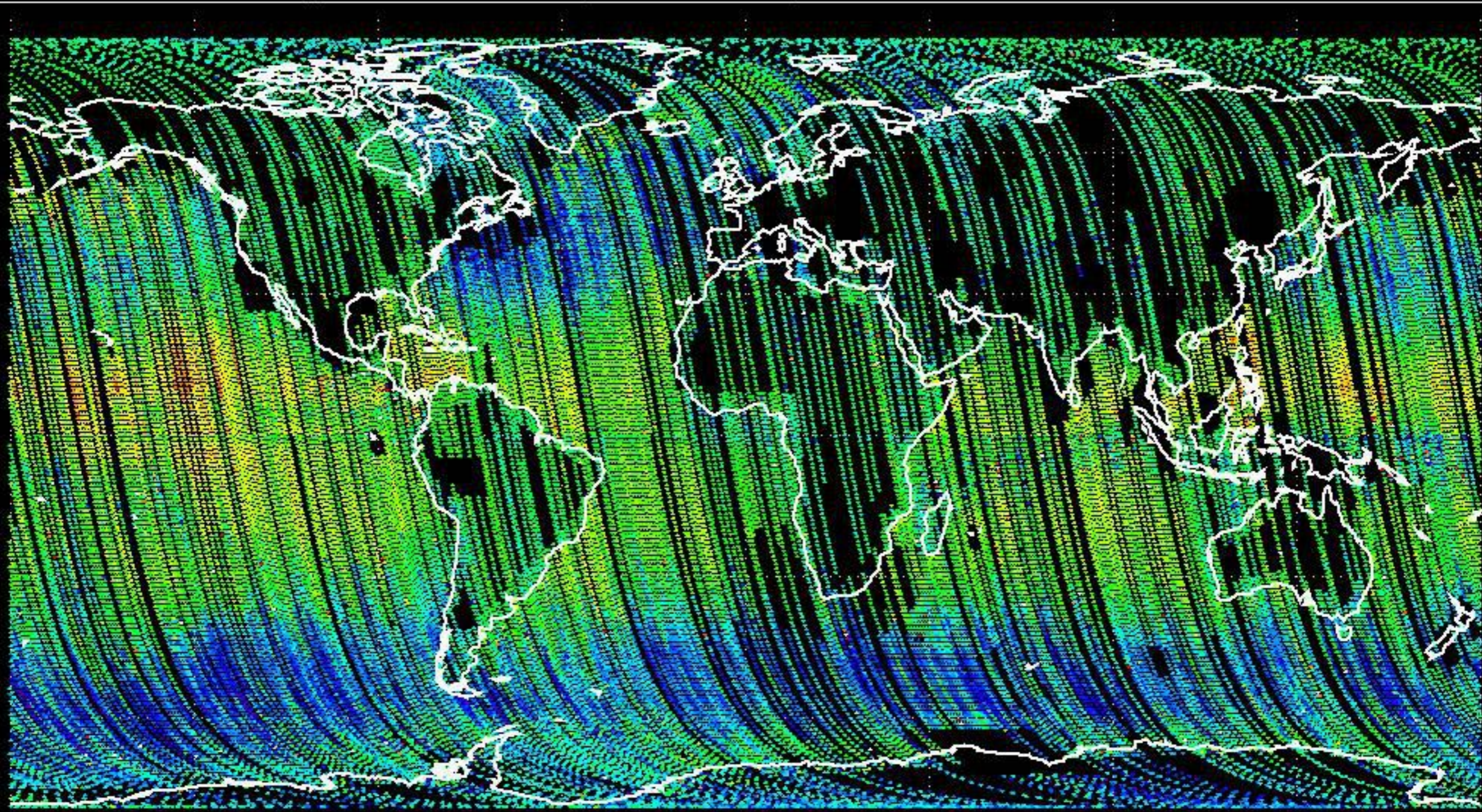


Doppler 'WVS' 'IS2' 'V/V'



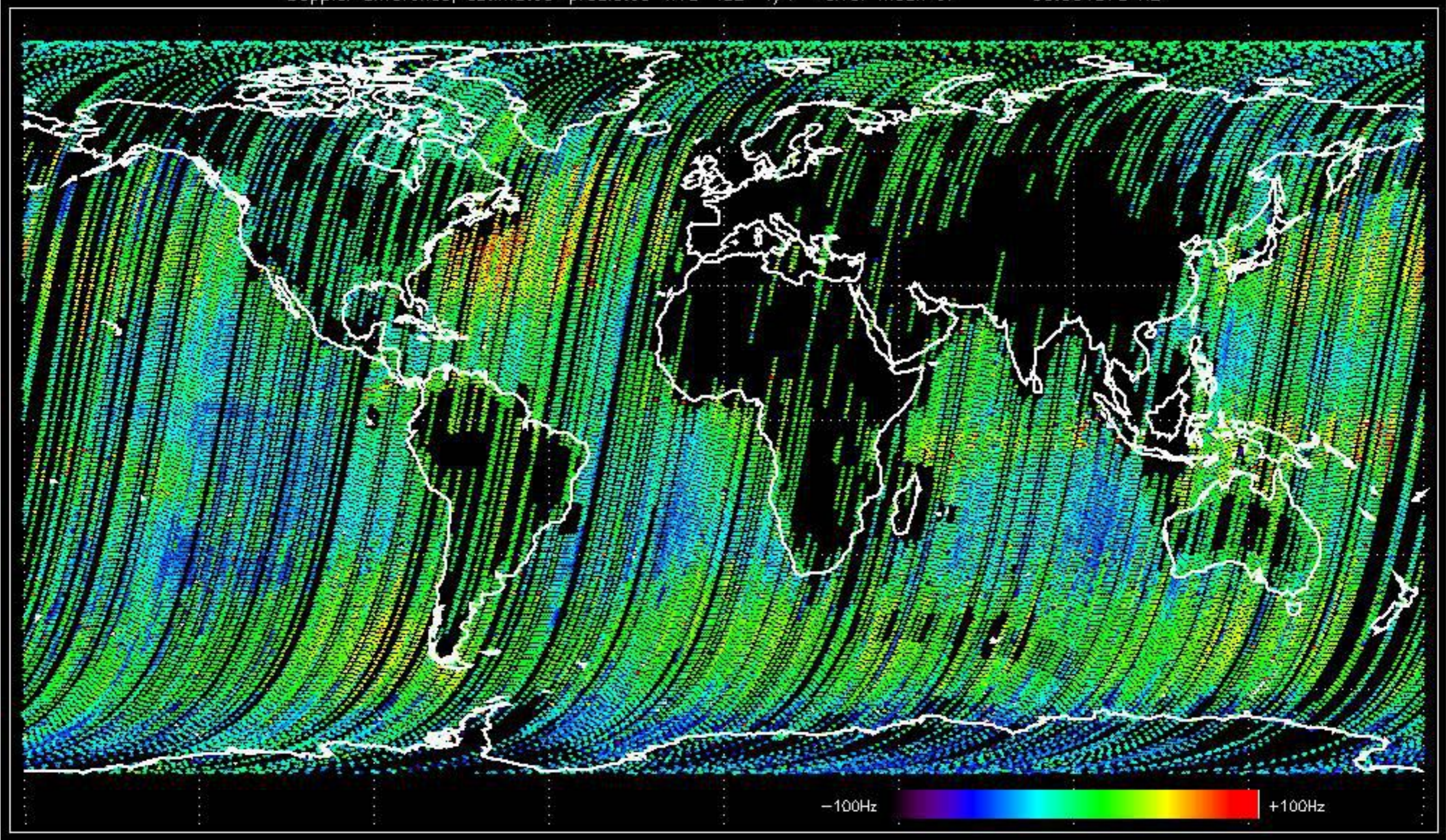


Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -33.926354 Hz



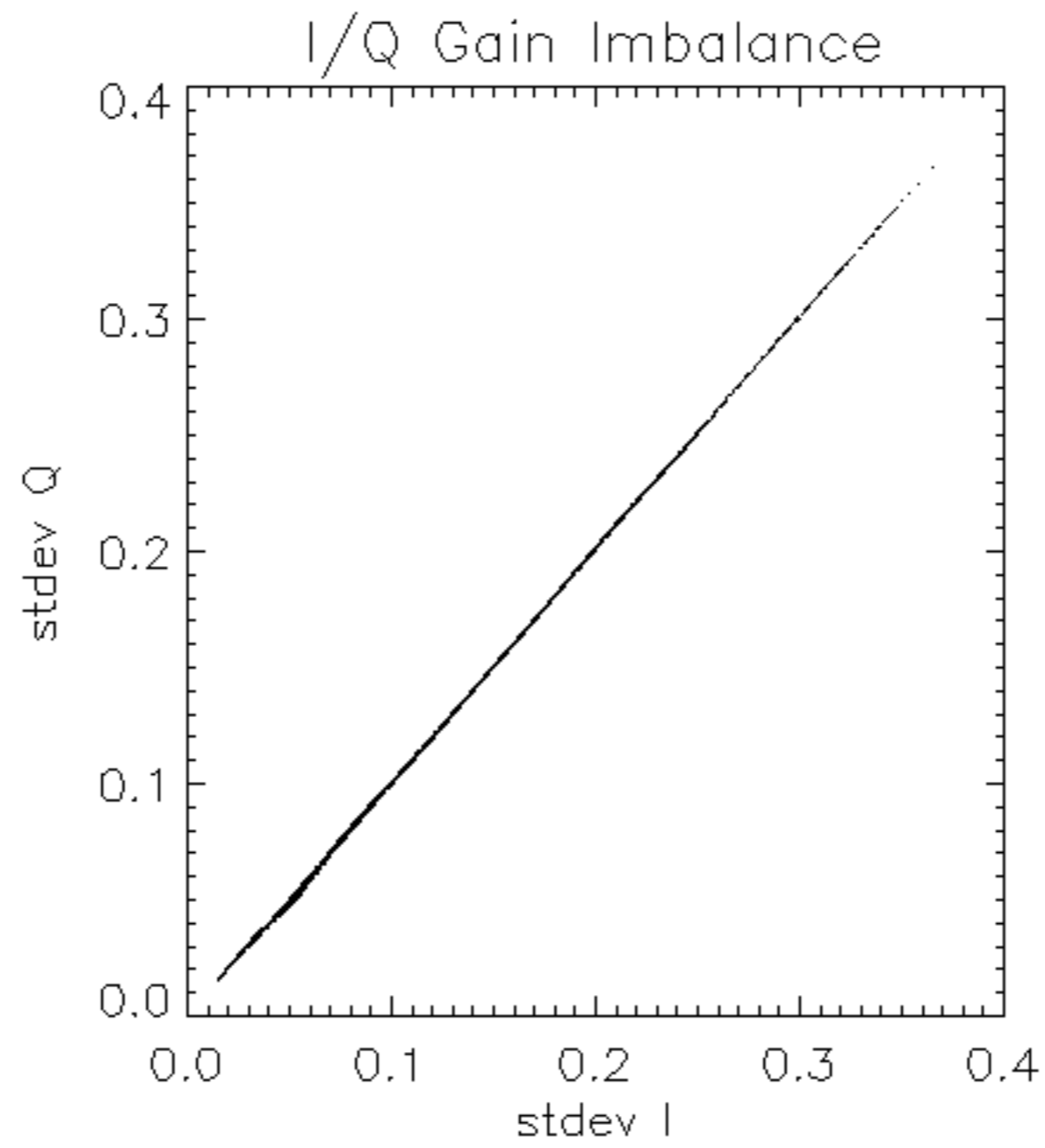
-100Hz +100Hz

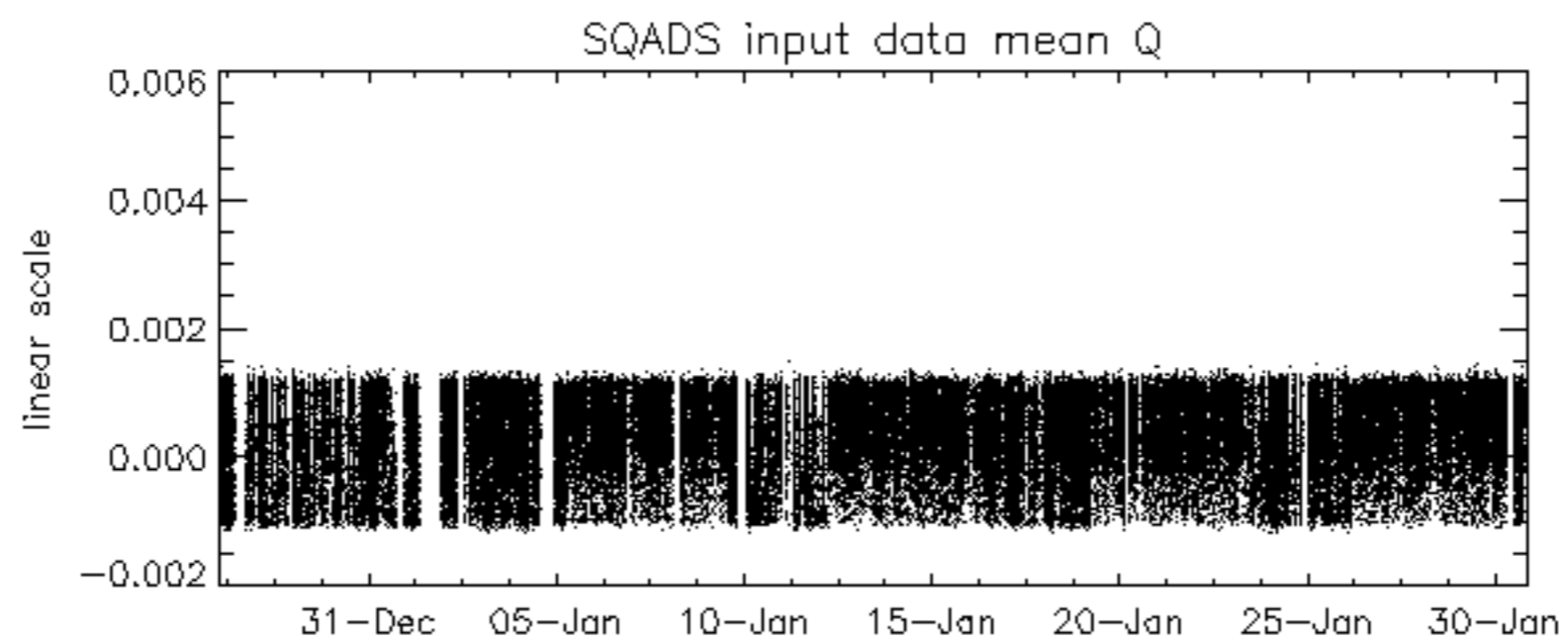
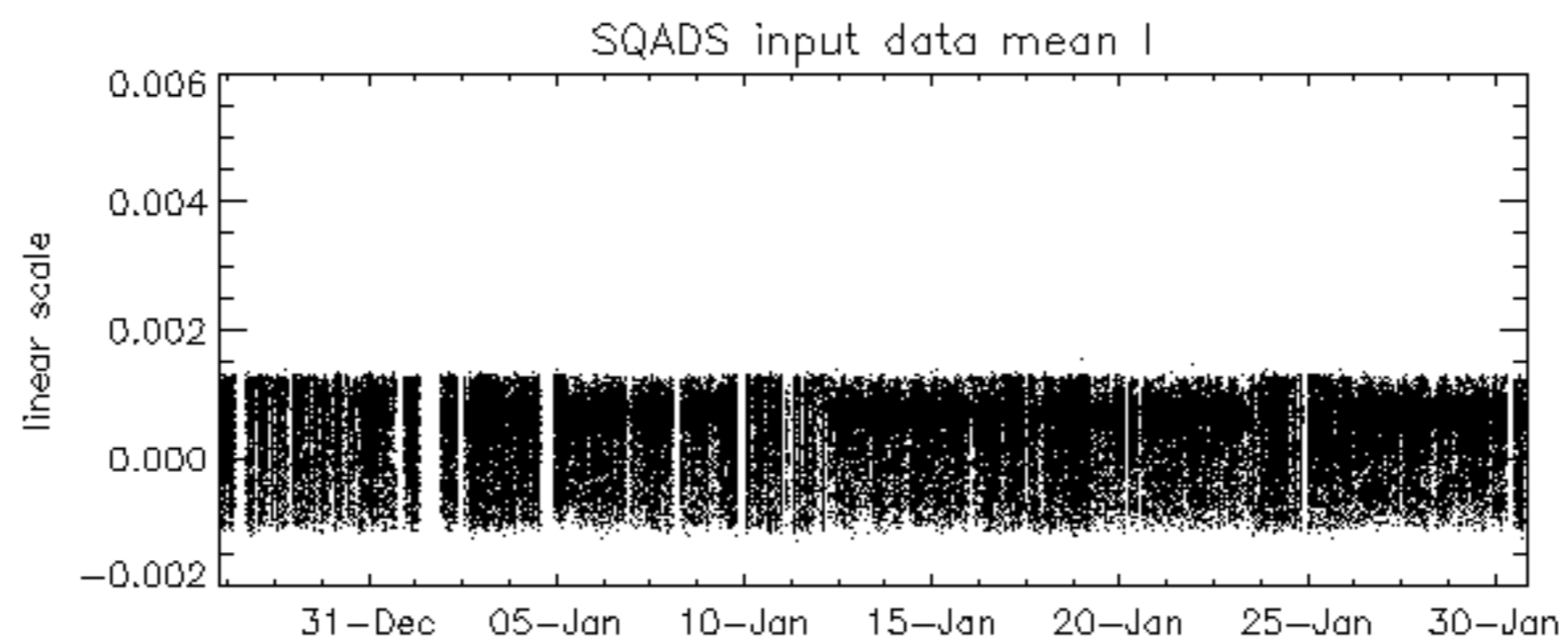
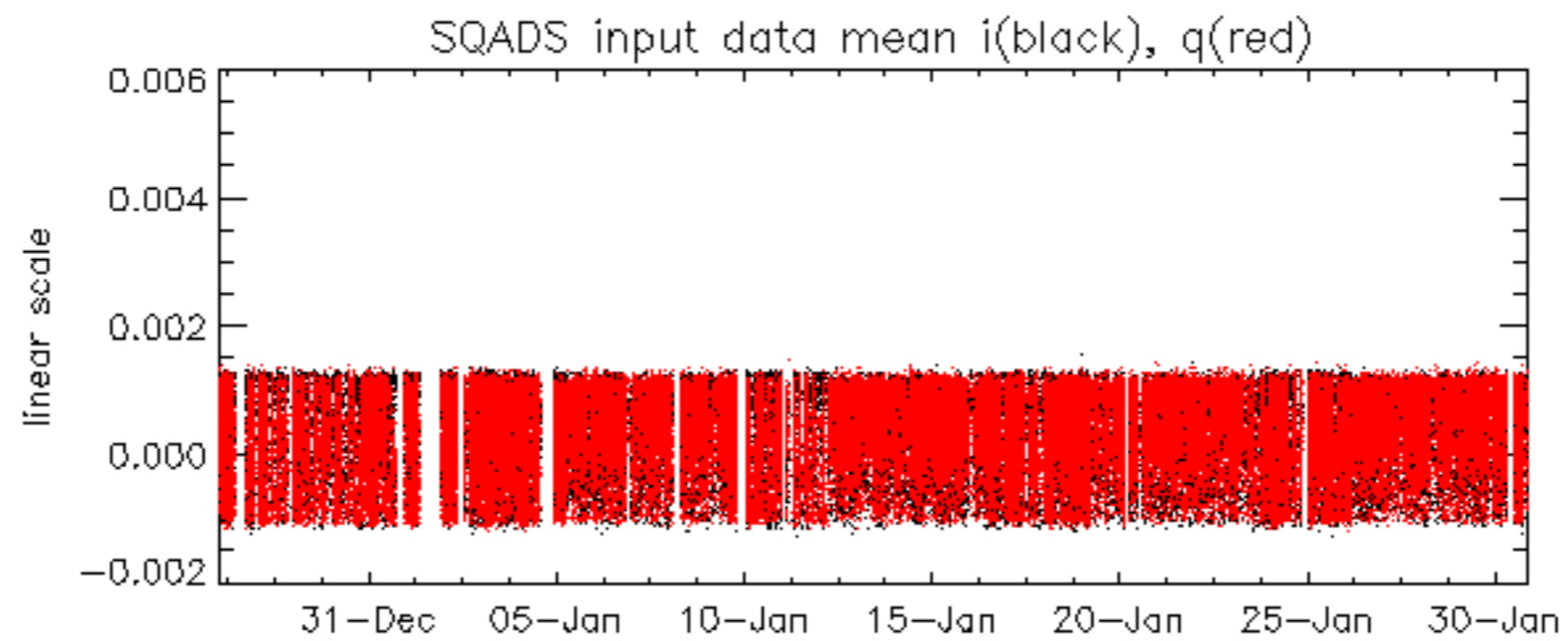
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -33.561975 Hz

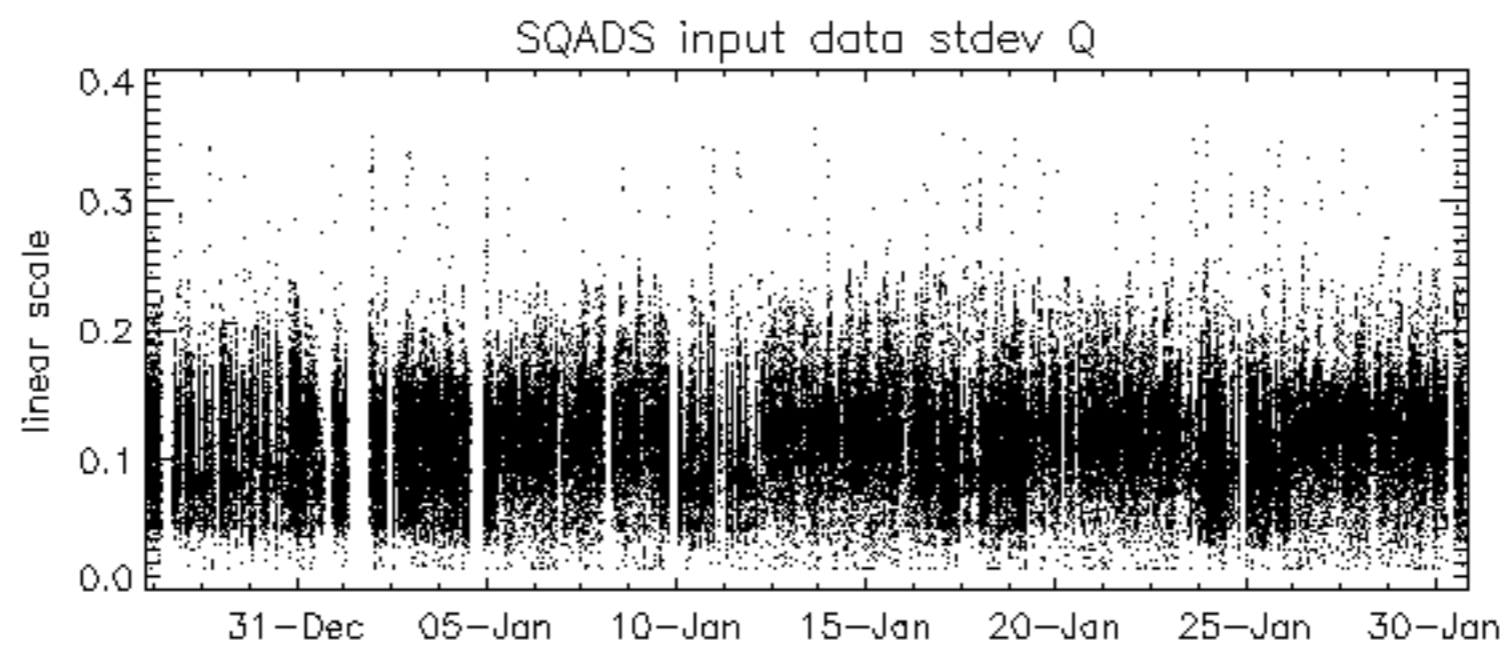
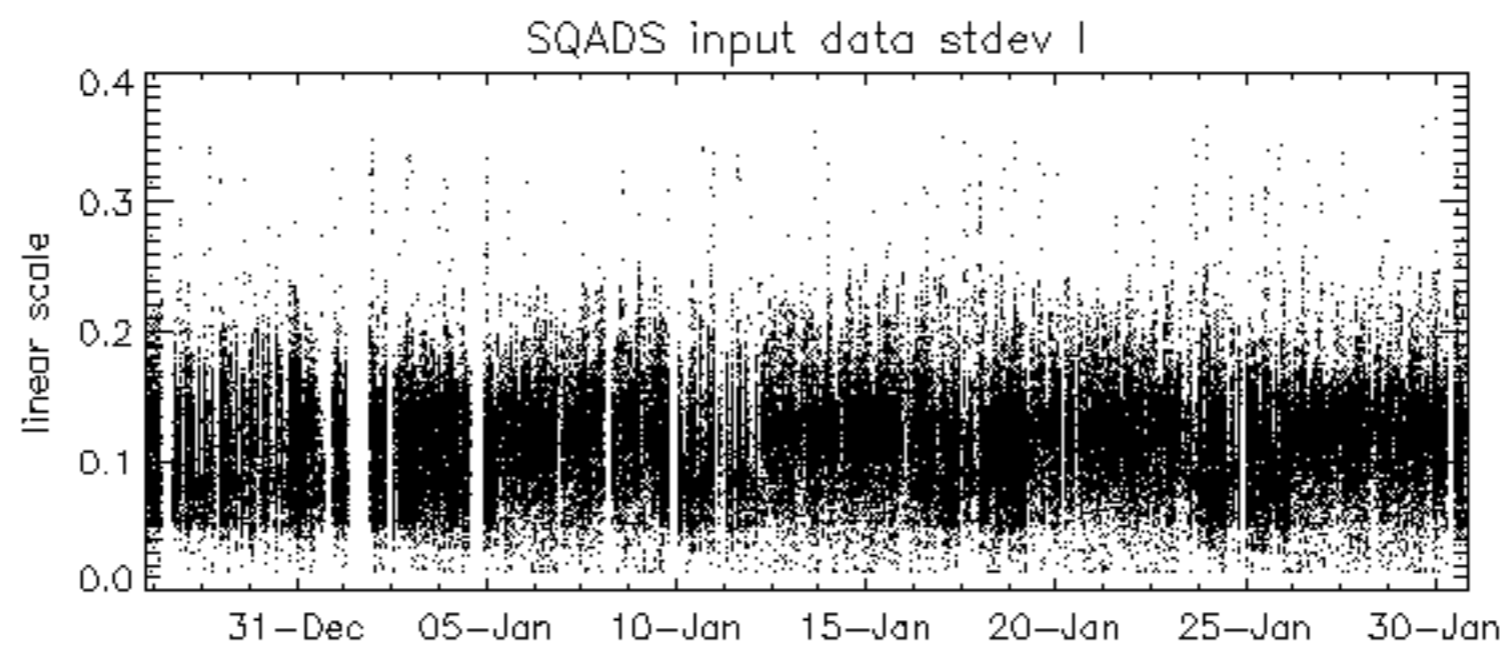
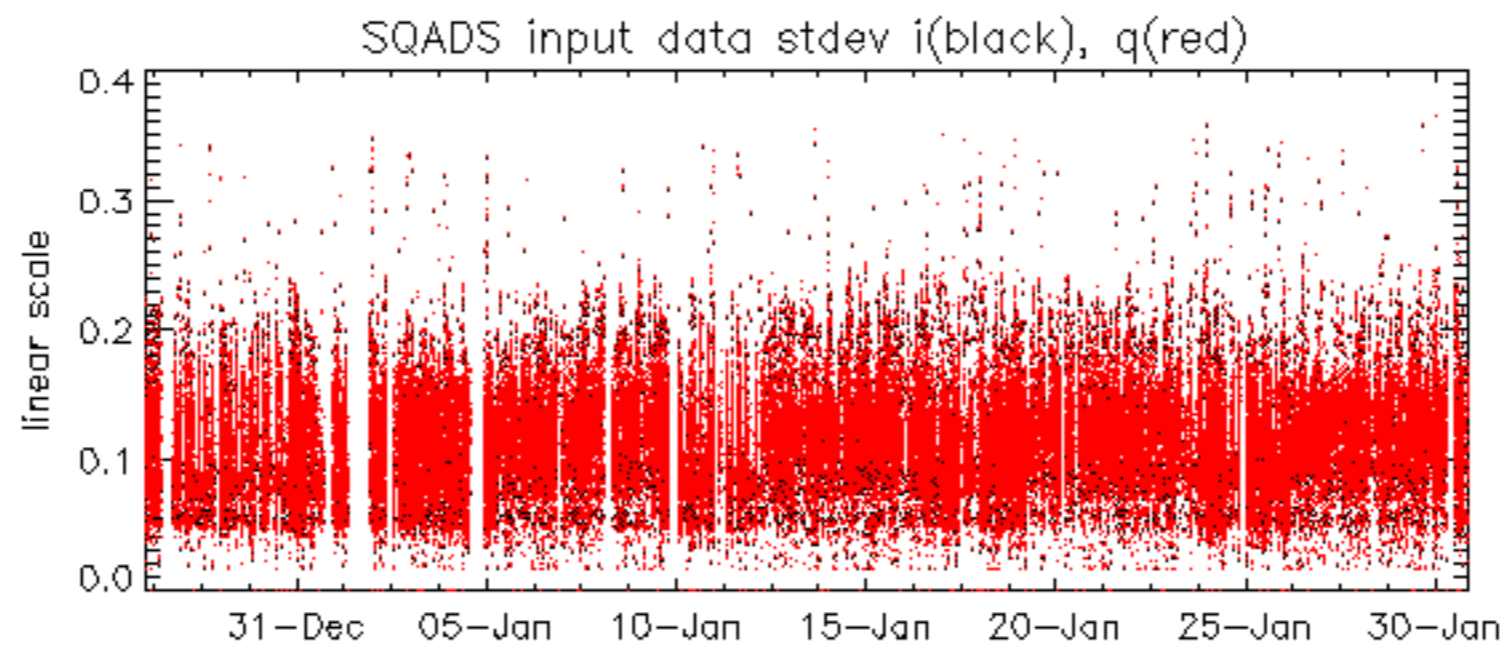


The MS mode provides an internal health check on an individual module basis.
The purpose of this mode is to identify to identify any malfunctioning modules and
to identify modules for which calibration offsets are to be applied.
No anomalies observed on available MS products:

No anomalies observed.







No unavailabilities during the reported period.