

# REPORT OF 031223

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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

Preliminary report. Instrument unavailabilities are not yet reported

### 2.2 - Browse Visual Inspection

Preliminary report. Browse are not yet controled

### 2.3 - Data Analysis

Preliminary report. The data is not yet controled

### 3 - Module Stepping Mode

-Preliminary report. MS data is not yet controled

Polarisation	Start Time
V	20031222 201956
H	20031222 201836

#### 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

-Preliminary report.The data is not yet controled

#### 4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.72454	-22.5805	-8.16374
	stdev	0.00943586	0.0605354	0.00314782
24	mean	-5.03769	-21.1947	-8.16374
	stdev	0.0102292	0.0558367	0.00314782

## 4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.76488	-22.5581	-8.14805
	stdev	0.0816868	0.0722291	0.00529414
24	mean	-5.09240	-21.2152	-8.14805
	stdev	0.0138584	0.0657936	0.00529414



## 4.3 - cal pulses monitoring (all rows)



## 5 - RAW data statistics

-Preliminary report. The data is not yet controled

### 5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000337558
	stdev	1.15962e-05
MEAN Q	mean	0.000198658
	stdev	1.16043e-05



### 5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115934
	stdev	0.00152229
STDEV Q	mean	0.116183
	stdev	0.00153753



### 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
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Descending
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### 6.2 - Absolute Doppler

#### Evolution of Absolute Doppler

Ascending
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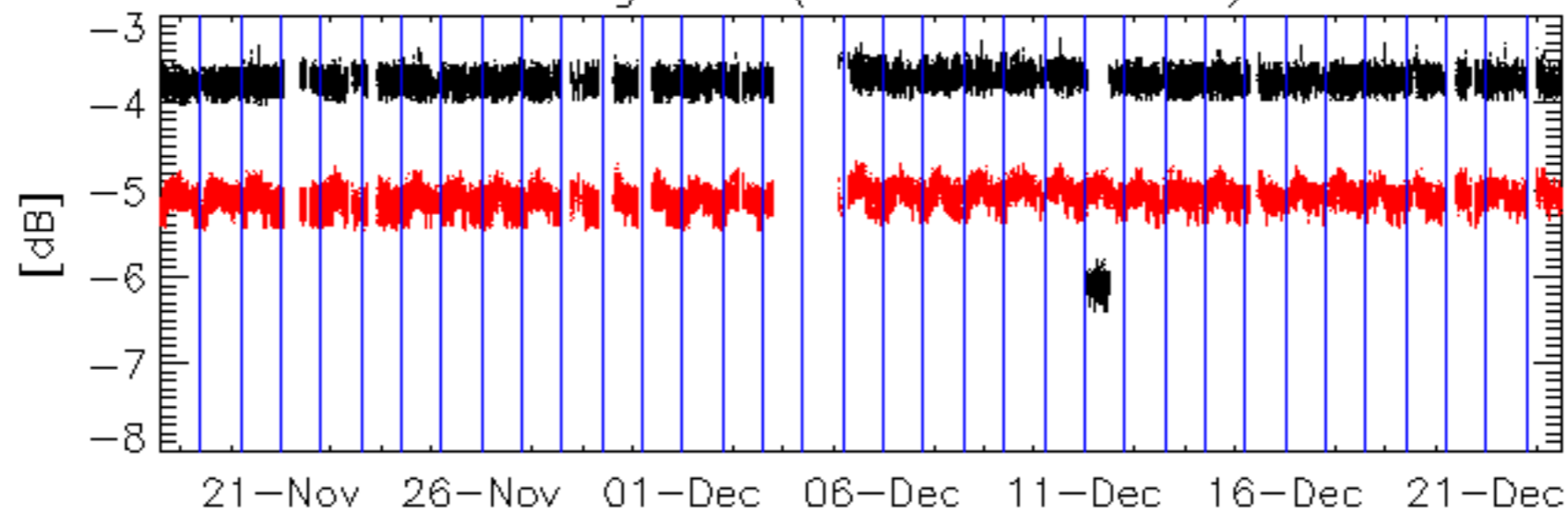
Descending
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### 6.3 - Doppler evolution versus ANX

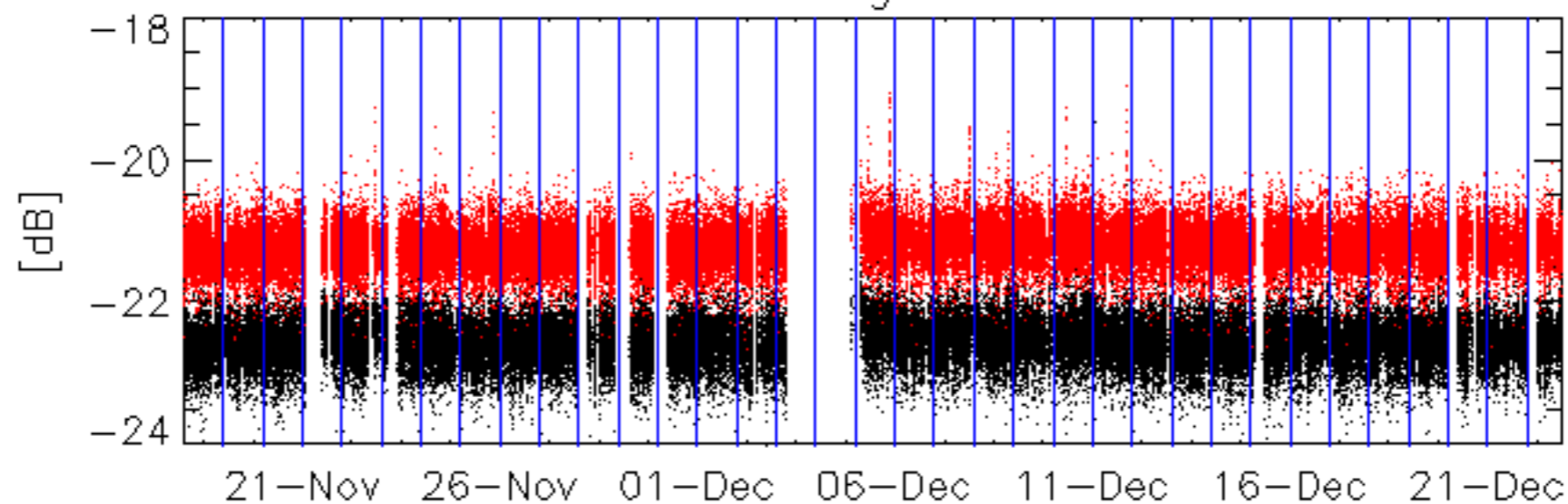
#### Evolution Doppler error versus ANX



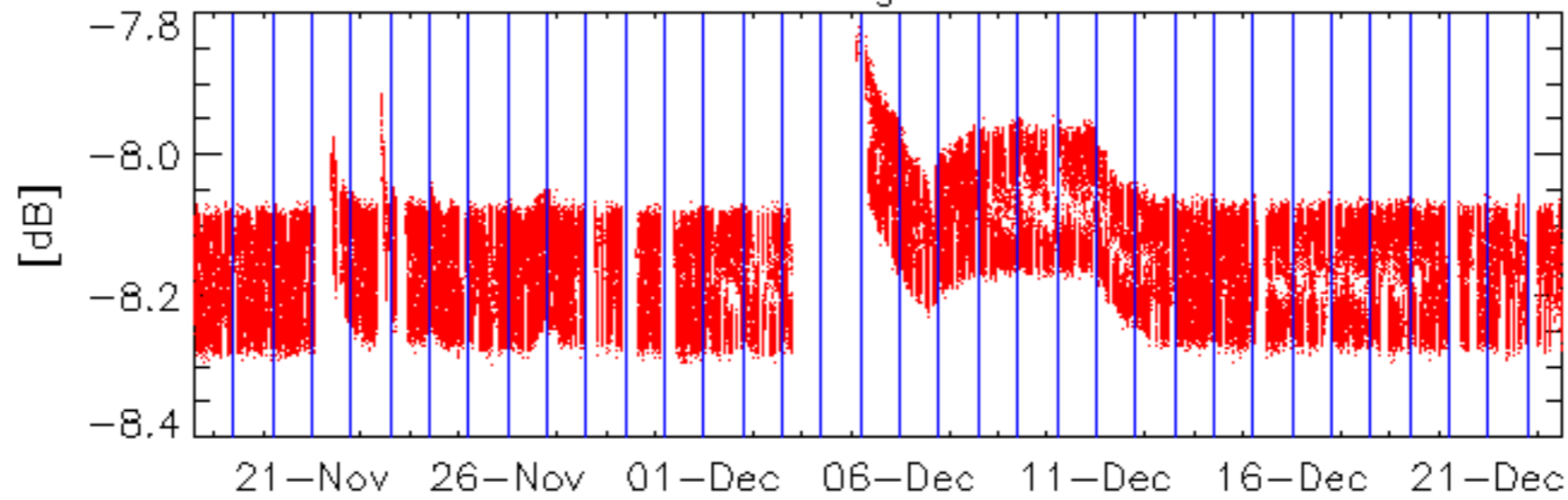
Average P1 (row 3 & row 24)



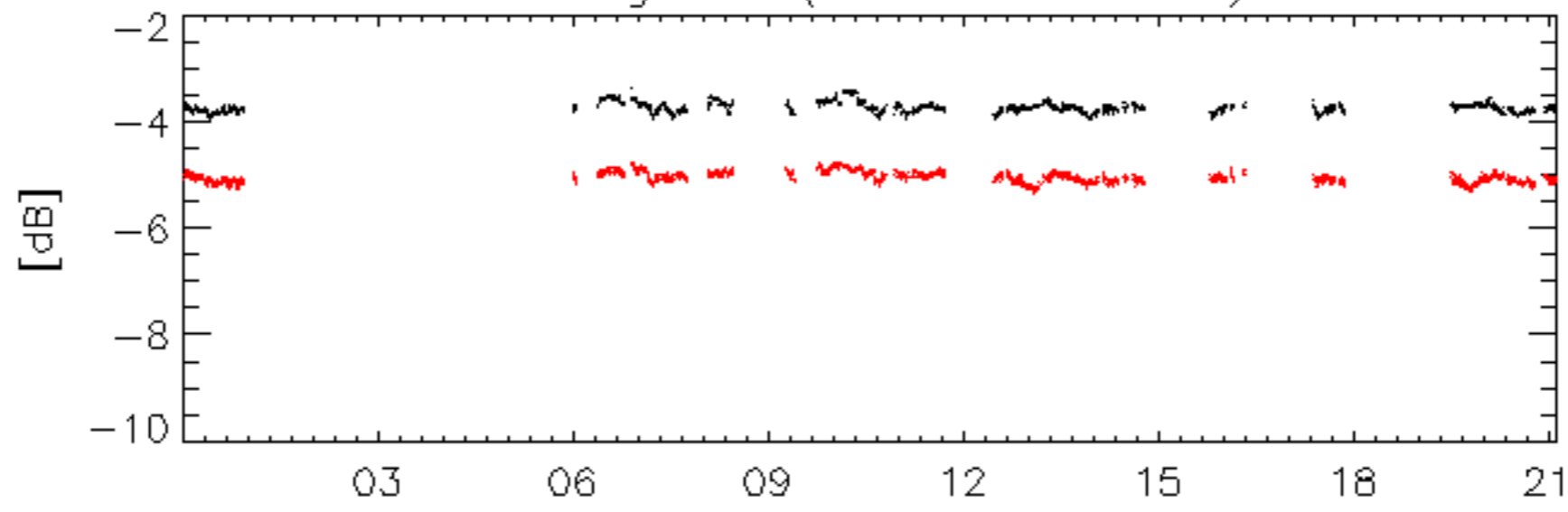
Average P2



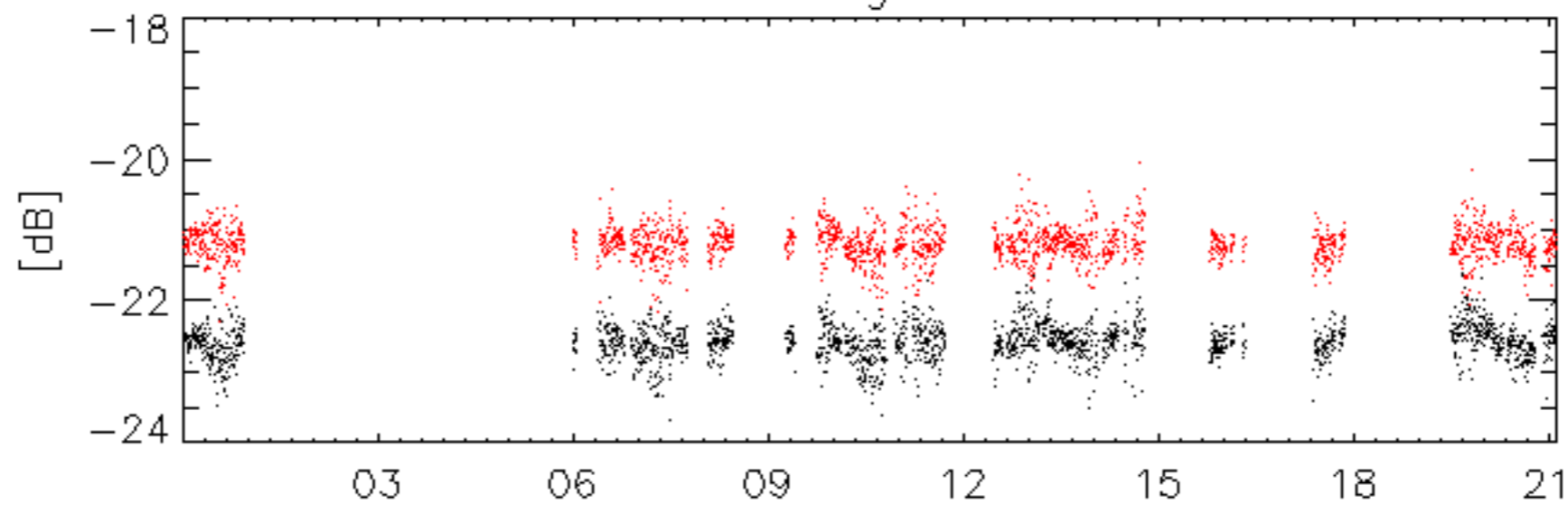
Average P3



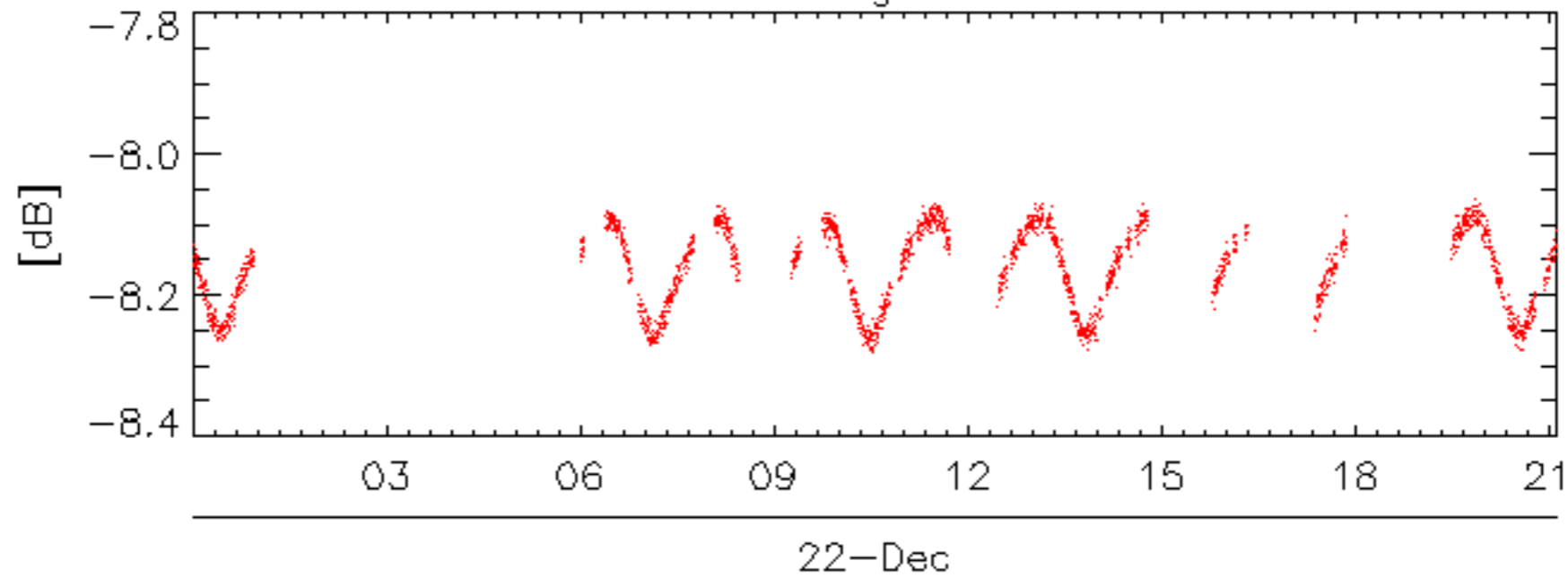
Average P1 (row 3 & row 24)



22-Dec  
Average P2



22-Dec  
Average P3

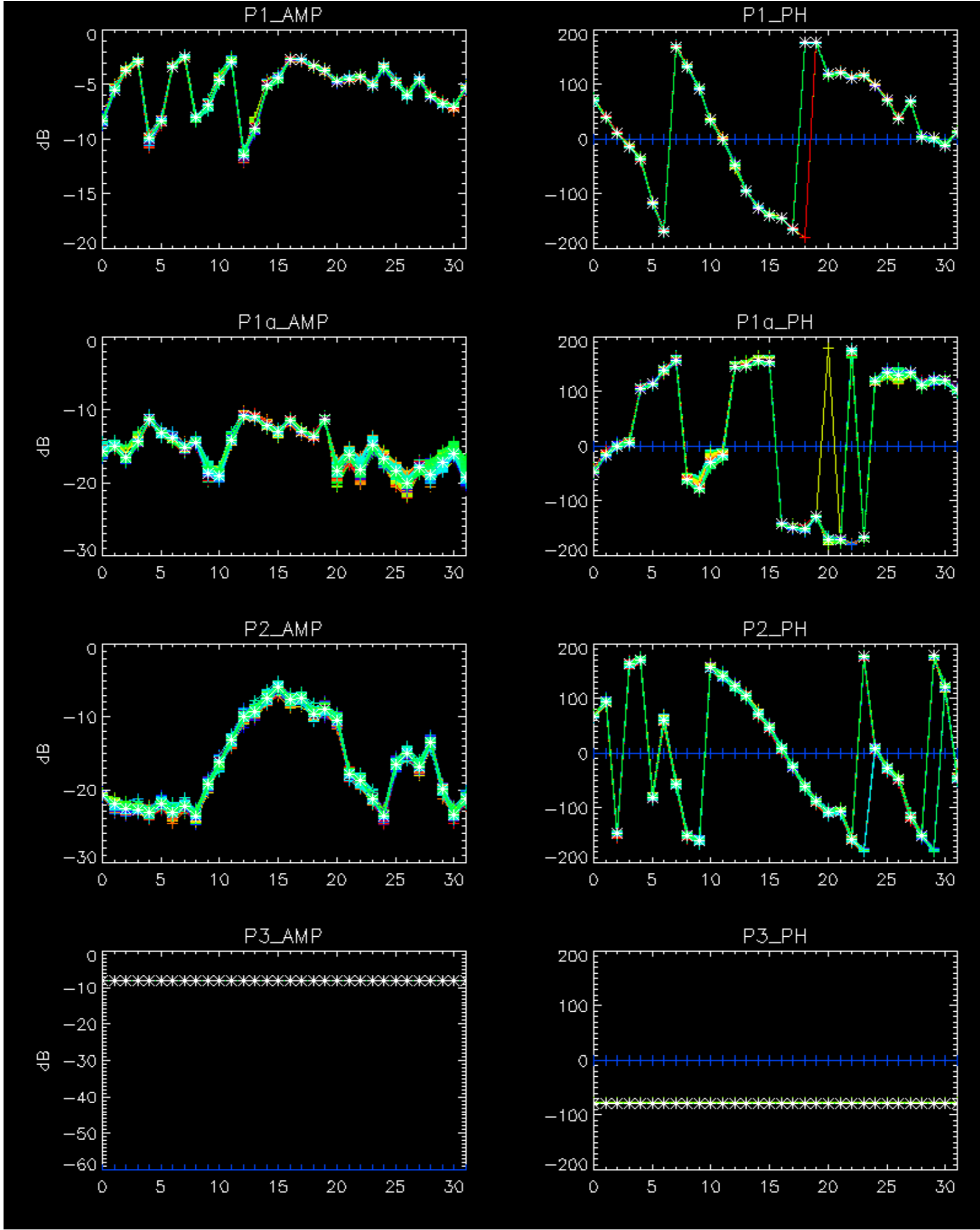




-Preliminary report.The data is not yet controled



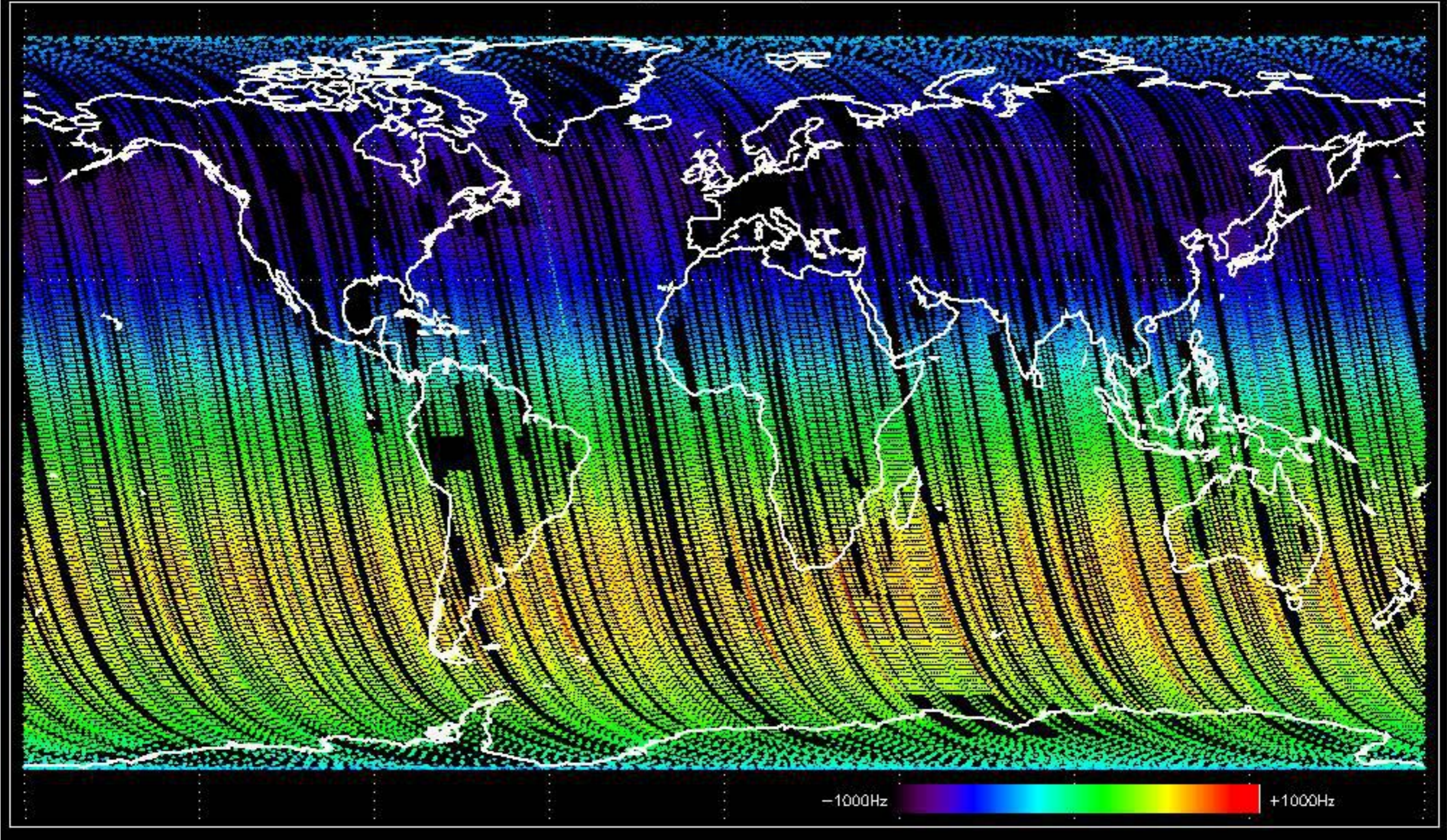




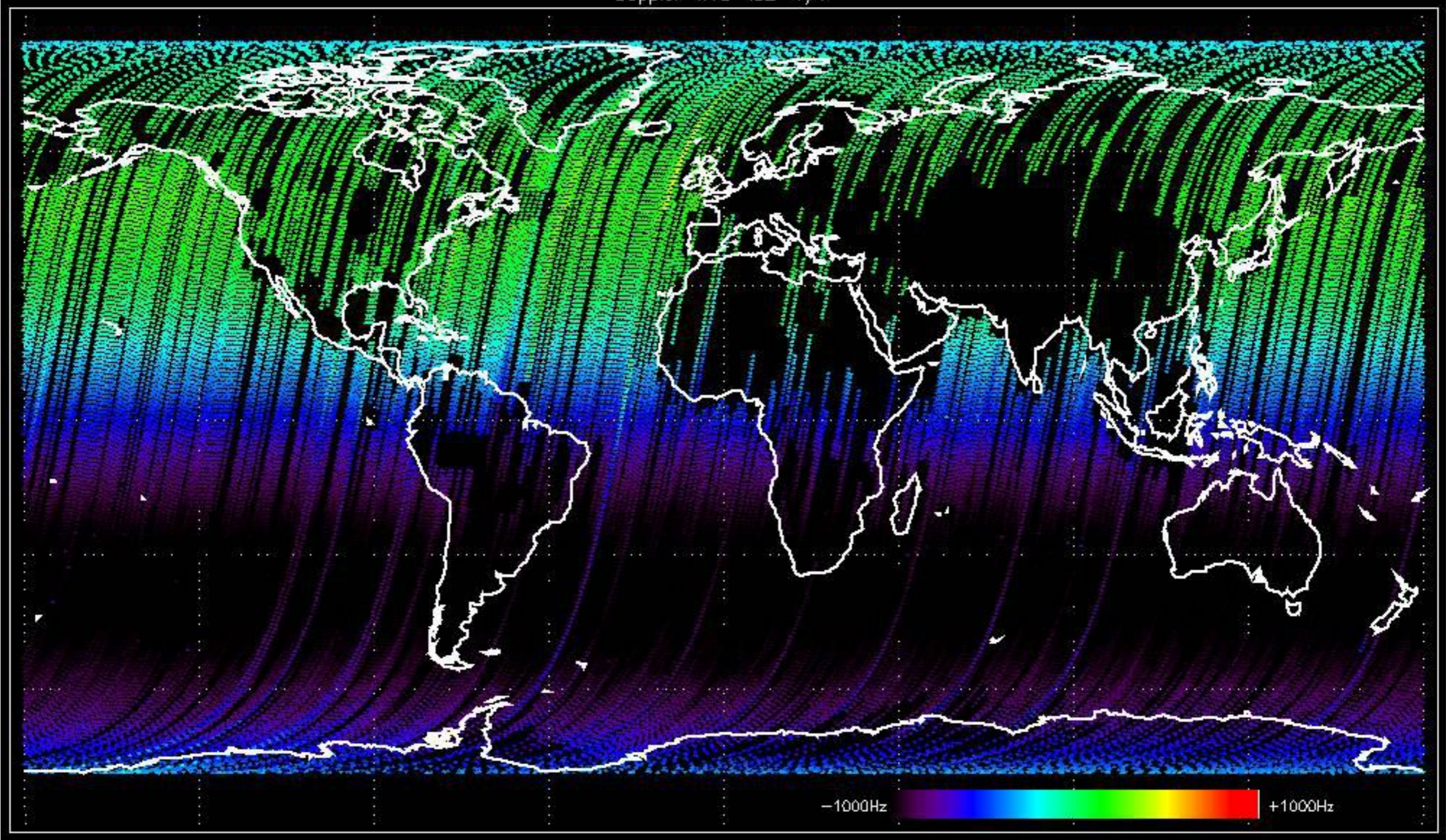




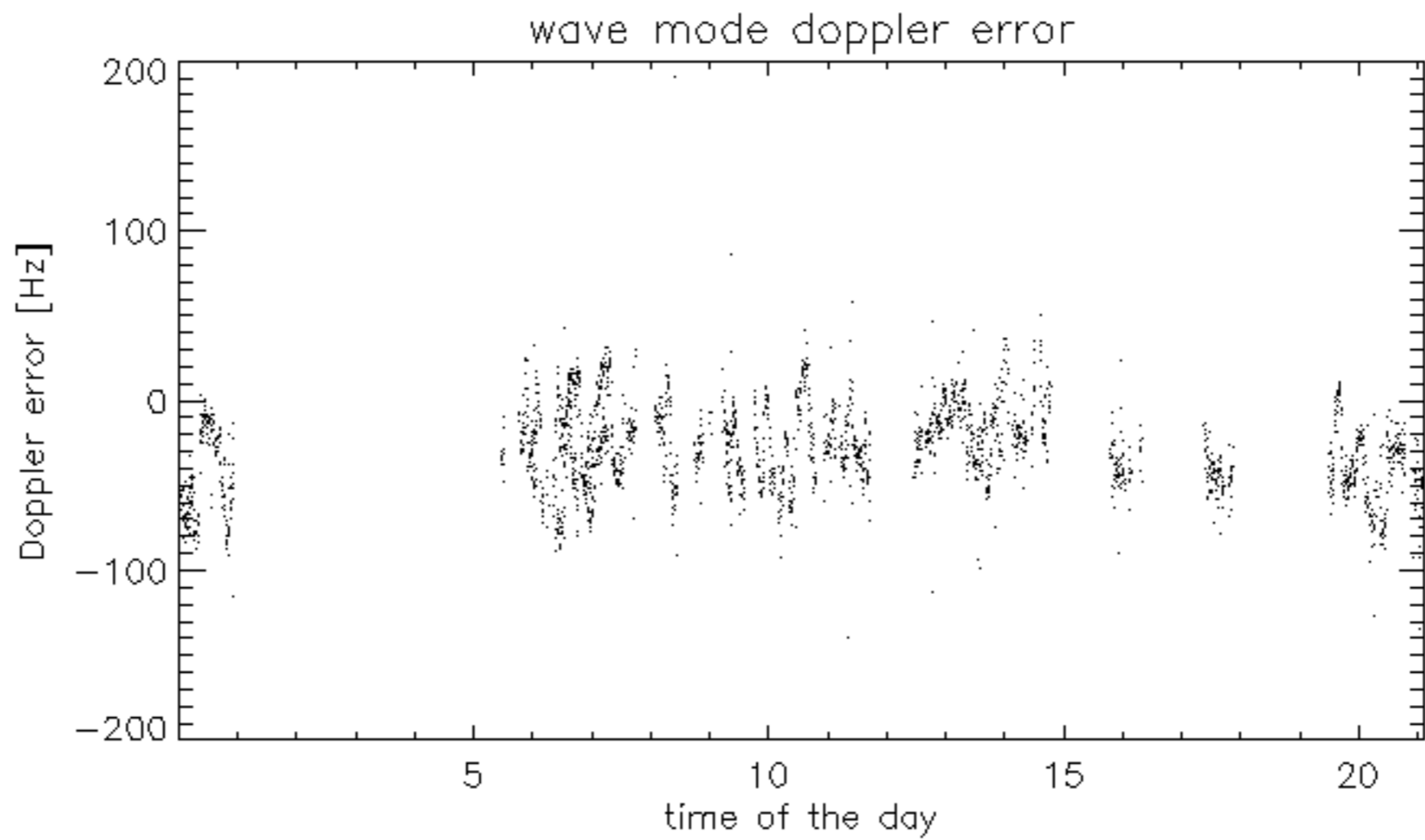
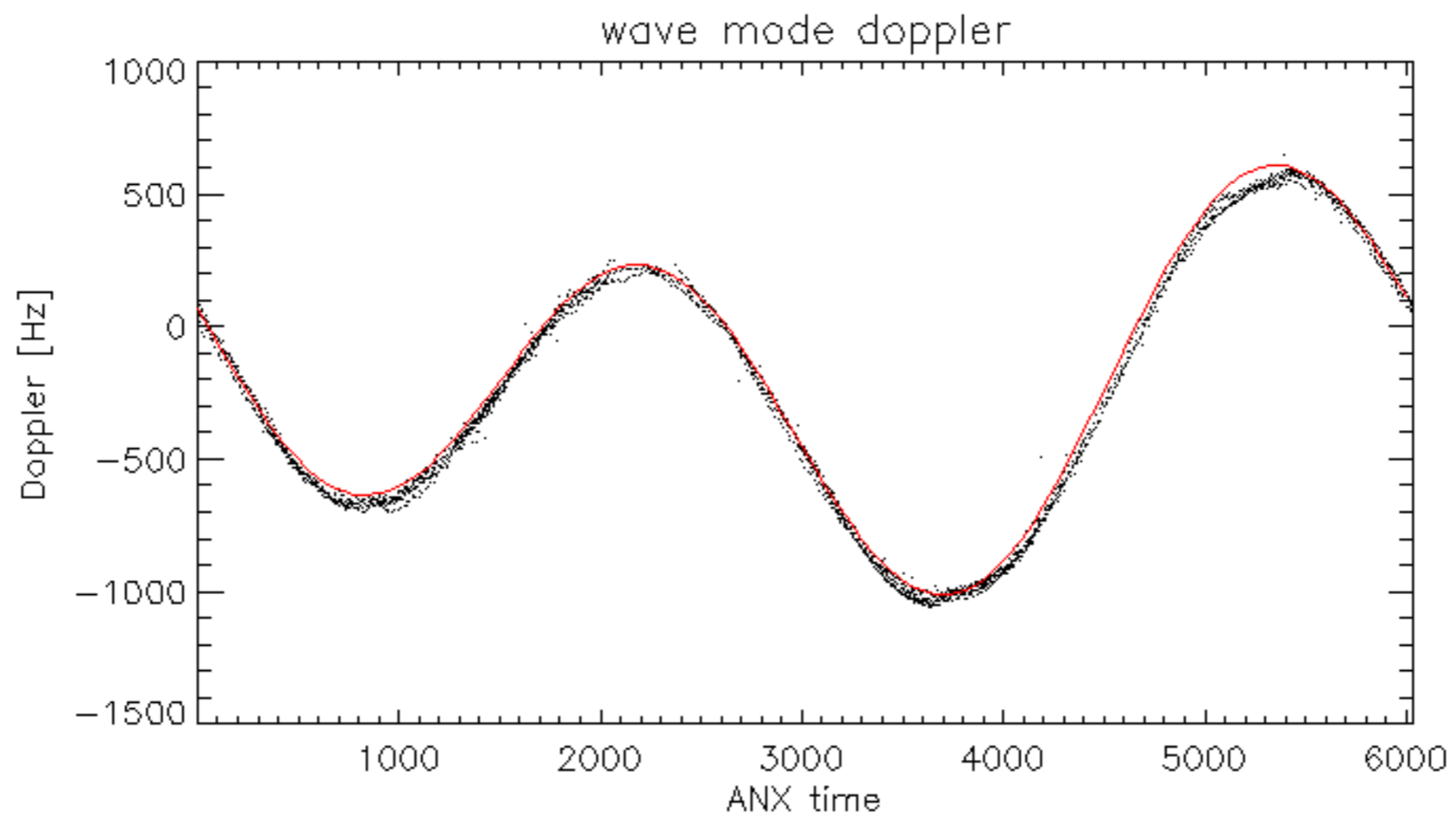
Doppler 'WVS' 'IS2' 'H/H'



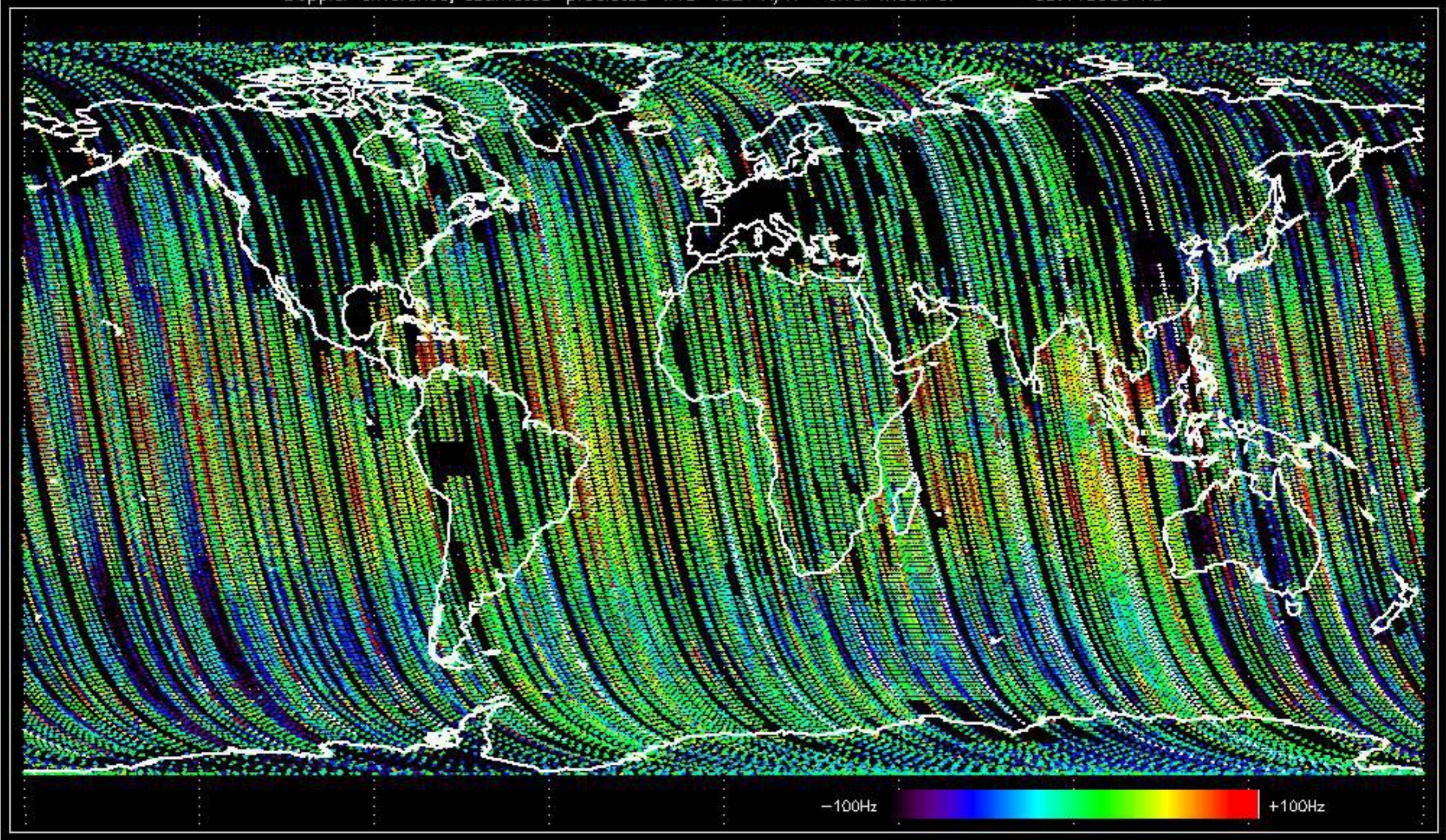
Doppler 'WVS' 'IS2' 'V/V'



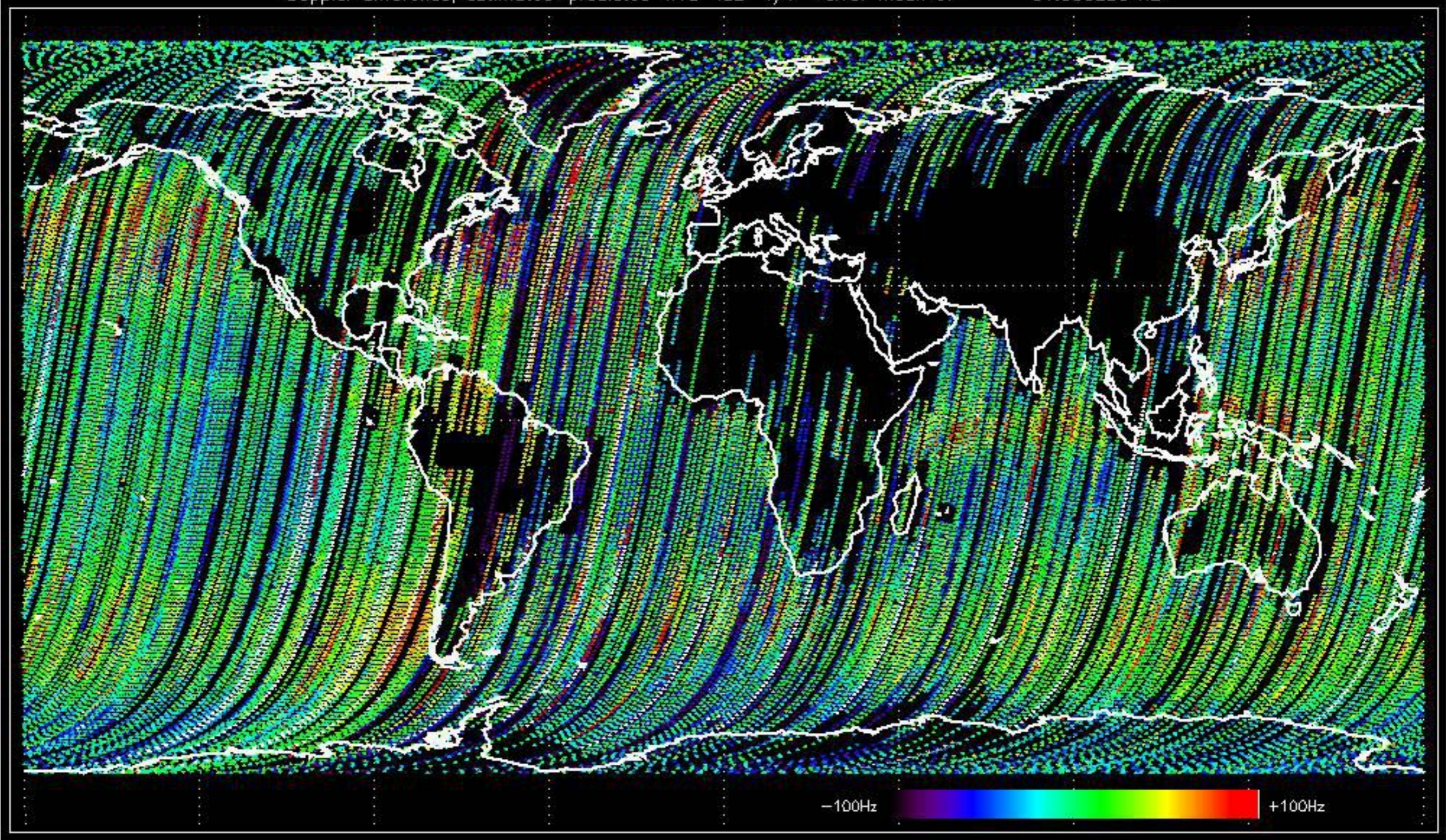
-1000Hz  +1000Hz



Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -58.110980 Hz



Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -51.550250 Hz







-Preliminary report. The data is not yet controled



















