

REPORT OF 031014

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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.

Sub-system	Start	Stop	Planned
ASAR	YYYY-MM-DD hh:mm:ss	YYYY-MM-DD hh:mm:ss	---

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

No anomalies observed on available MS products:



Polarisation	Start Time
V	20031013 203156
H	20031013 203016

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	-3.78813	-22.5686	-8.14703
	stdev	0.00539972	0.0591086	0.00244092
10	mean	-6.86965	-19.3241	-8.14703
	stdev	0.0293486	0.0594259	0.00244092



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.79819	-22.5348	-8.13155
	stdev	0.00551331	0.0628023	0.00253677
10	mean	-6.89418	-19.3181	-8.13155
	stdev	0.0271277	0.0607010	0.00253677



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	0.000362484
	stdev	3.61507e-07
MEAN Q	mean	0.000296633
	stdev	3.25784e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115067
	stdev	0.00142914
STDEV Q	mean	0.115308
	stdev	0.00144699



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

6.1 - Unbiased Doppler Error

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

6.2 - Absolute Doppler

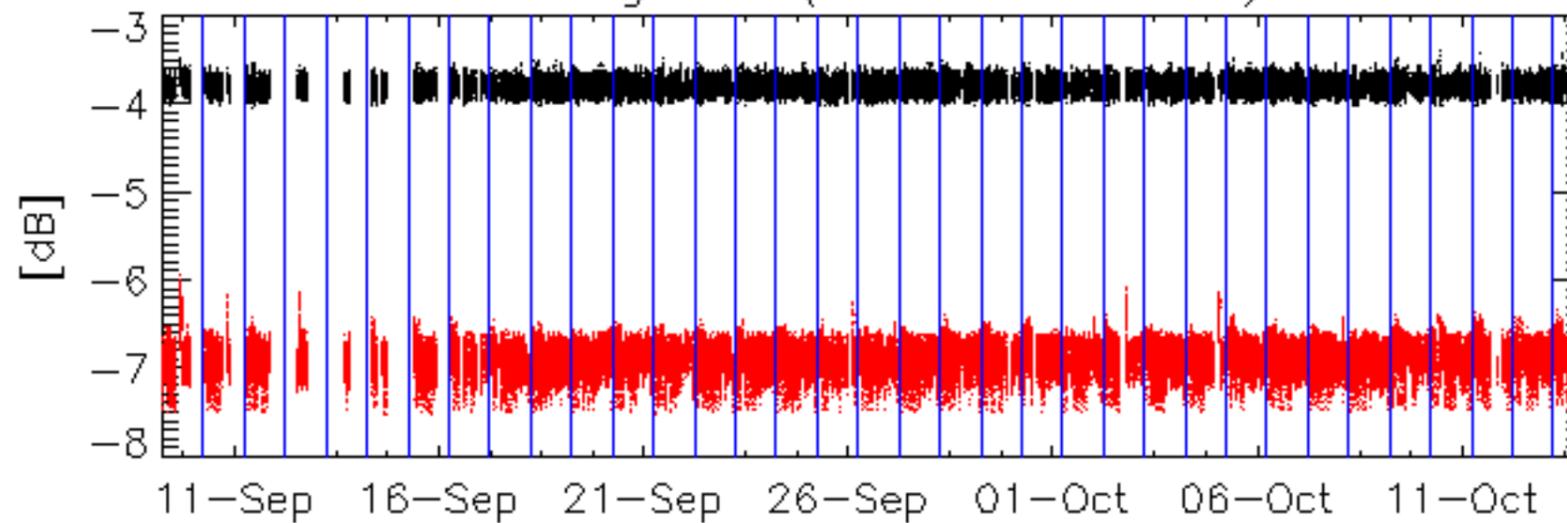
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

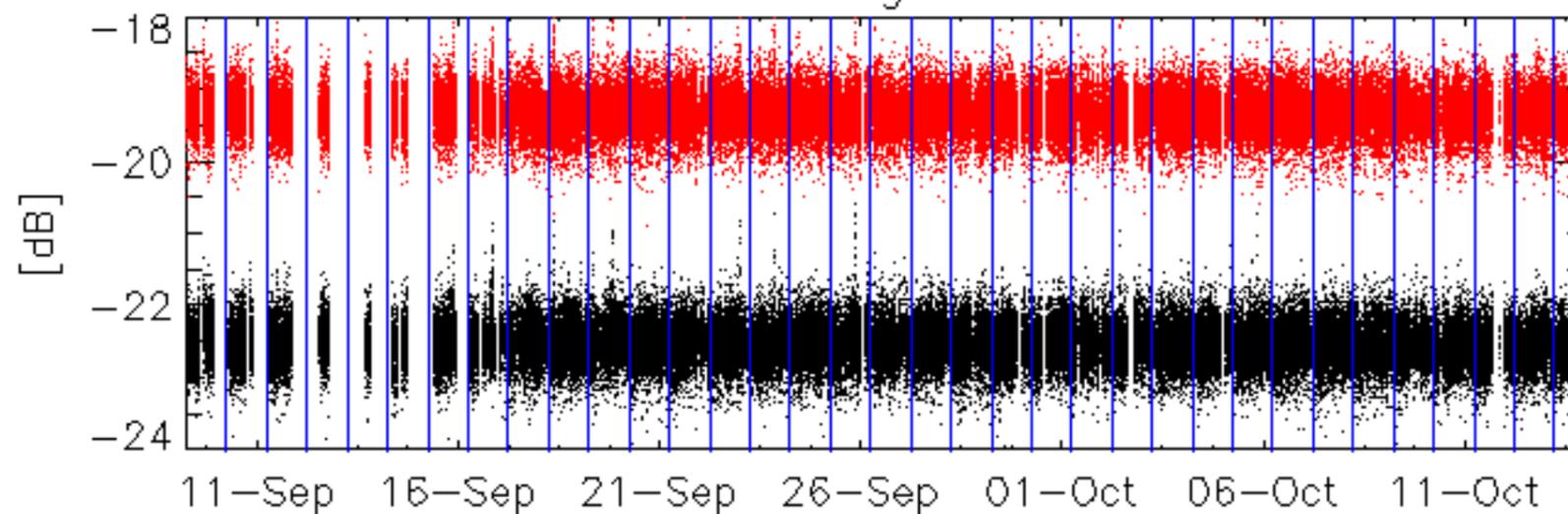
Evolution Doppler error versus ANX



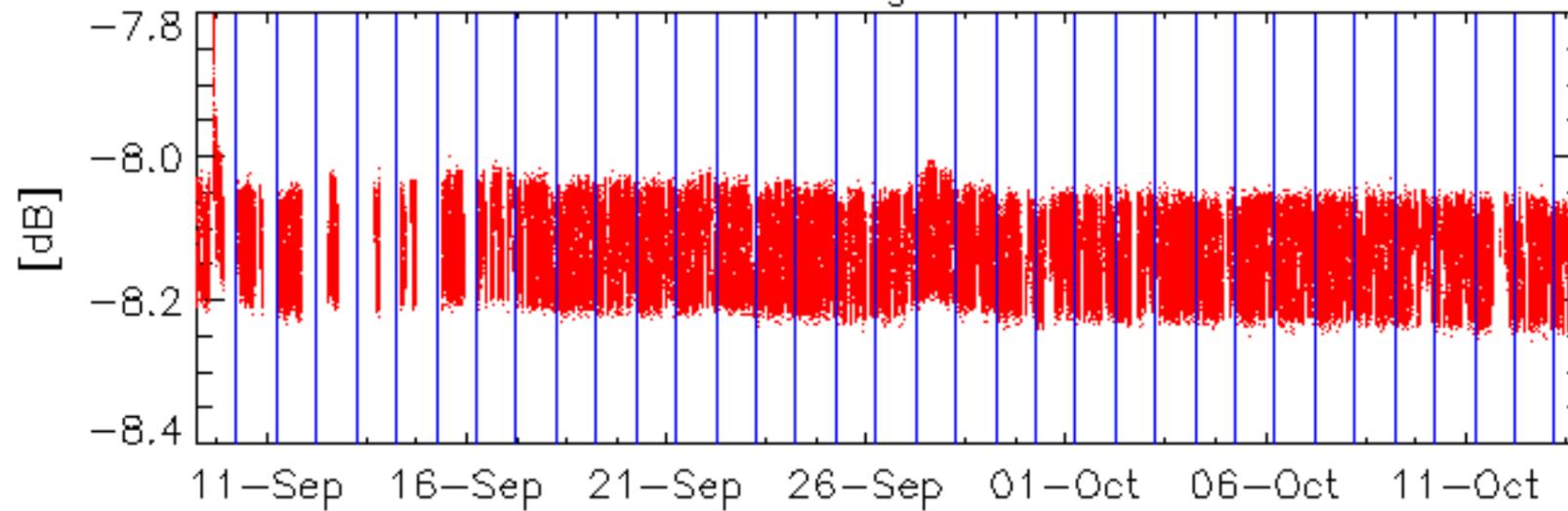
Average P1 (row 3 & row 10)



Average P2

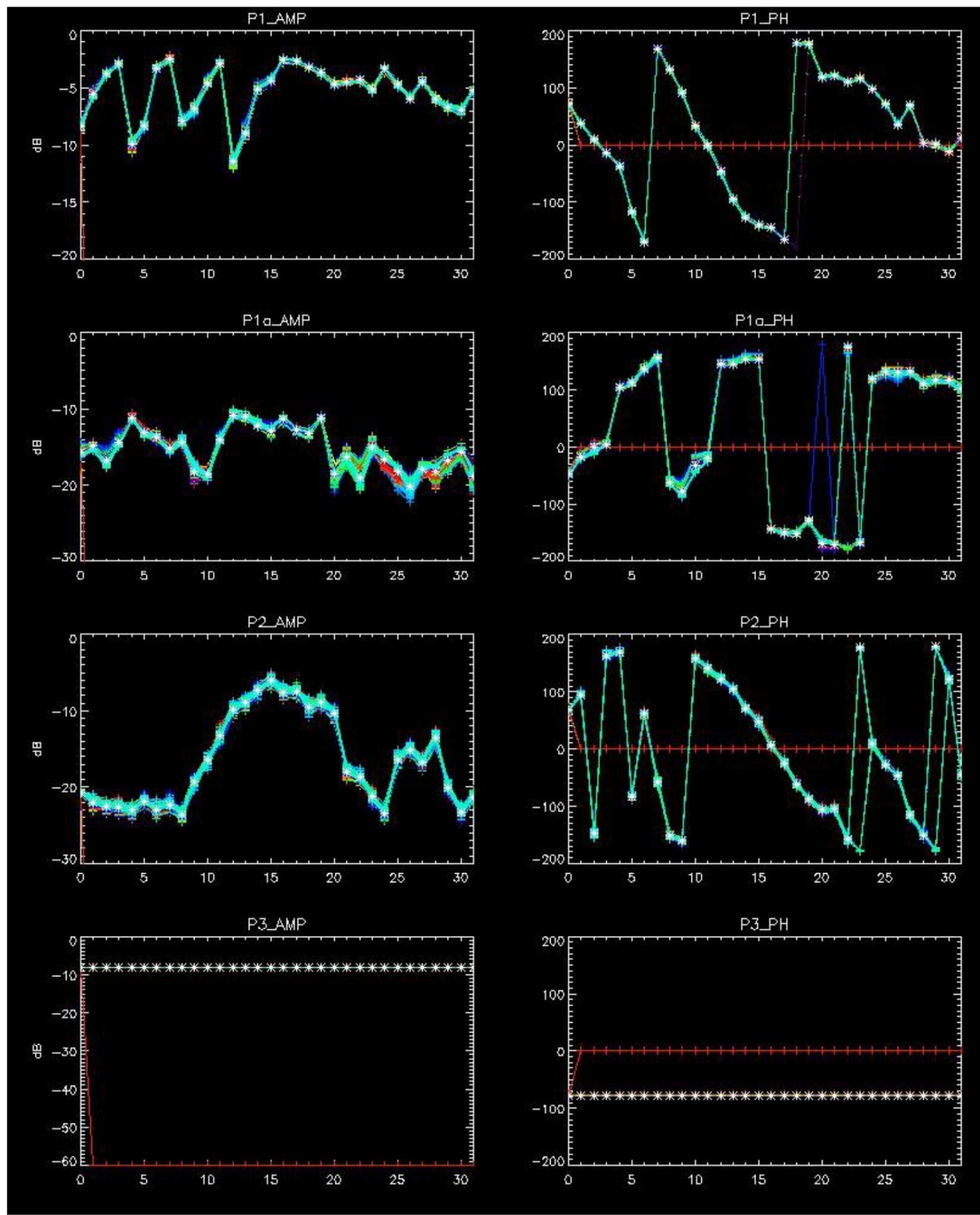


Average P3



No anomalies observed on available browse products

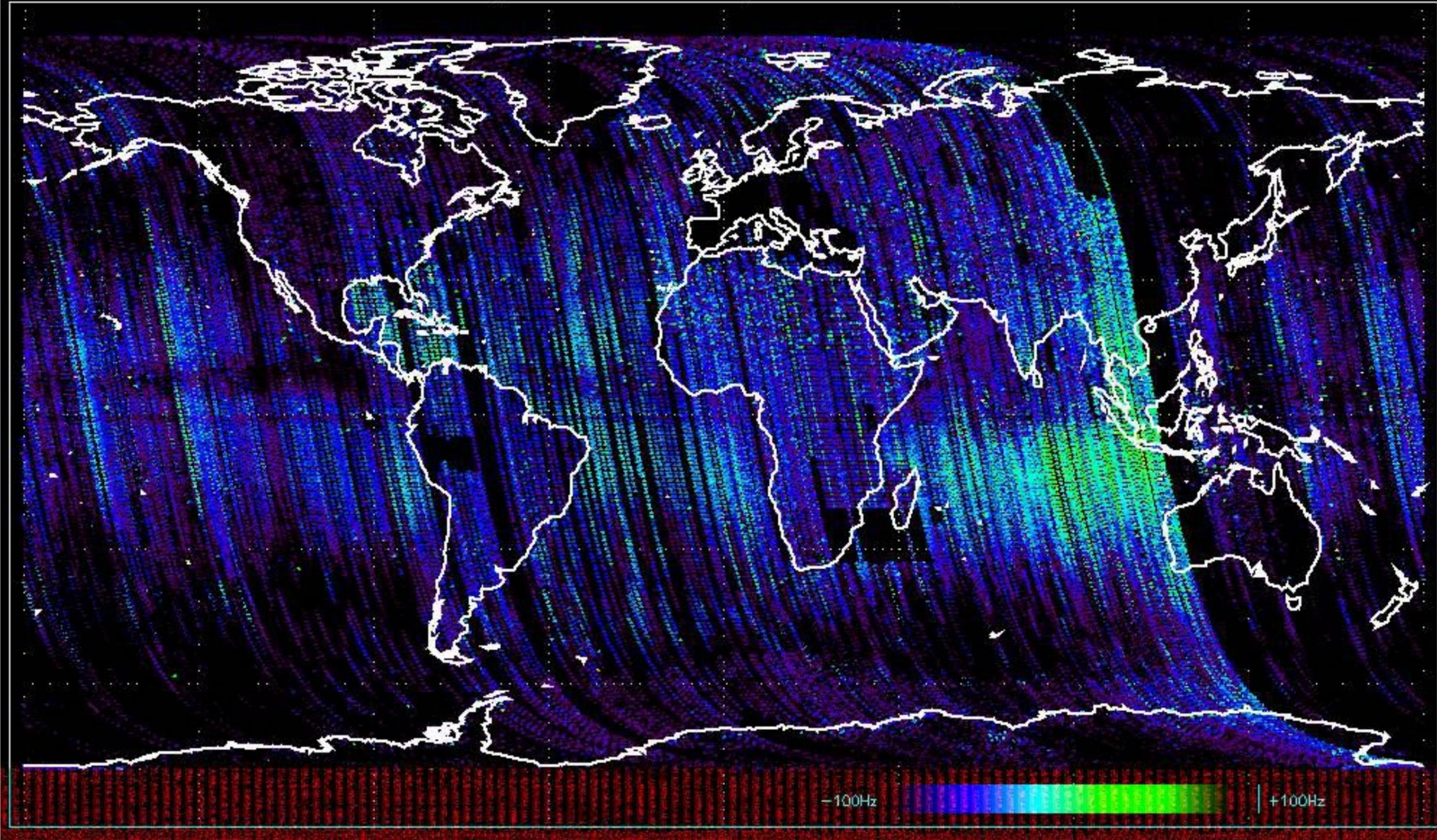
No anomalies observed.



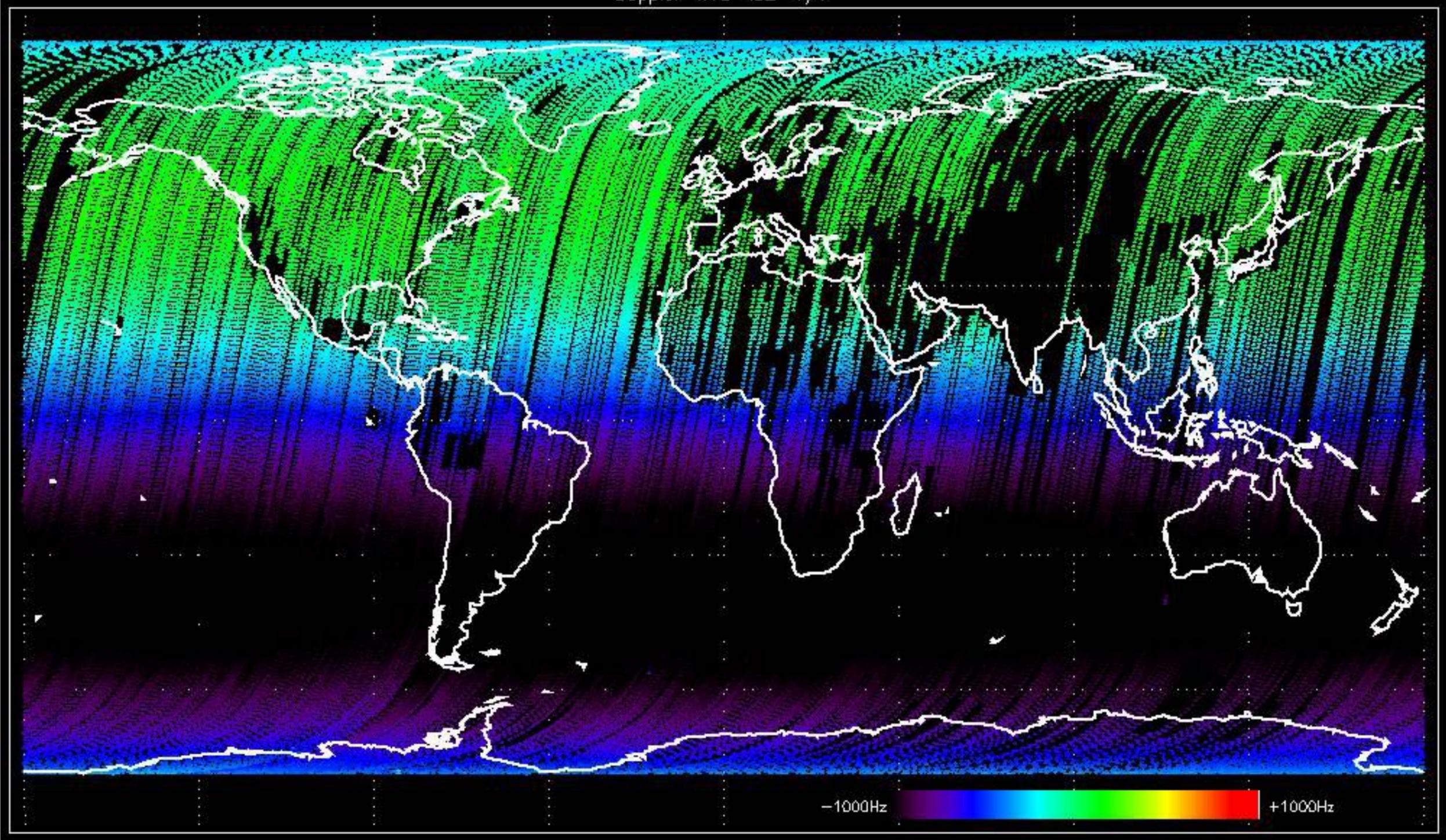
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

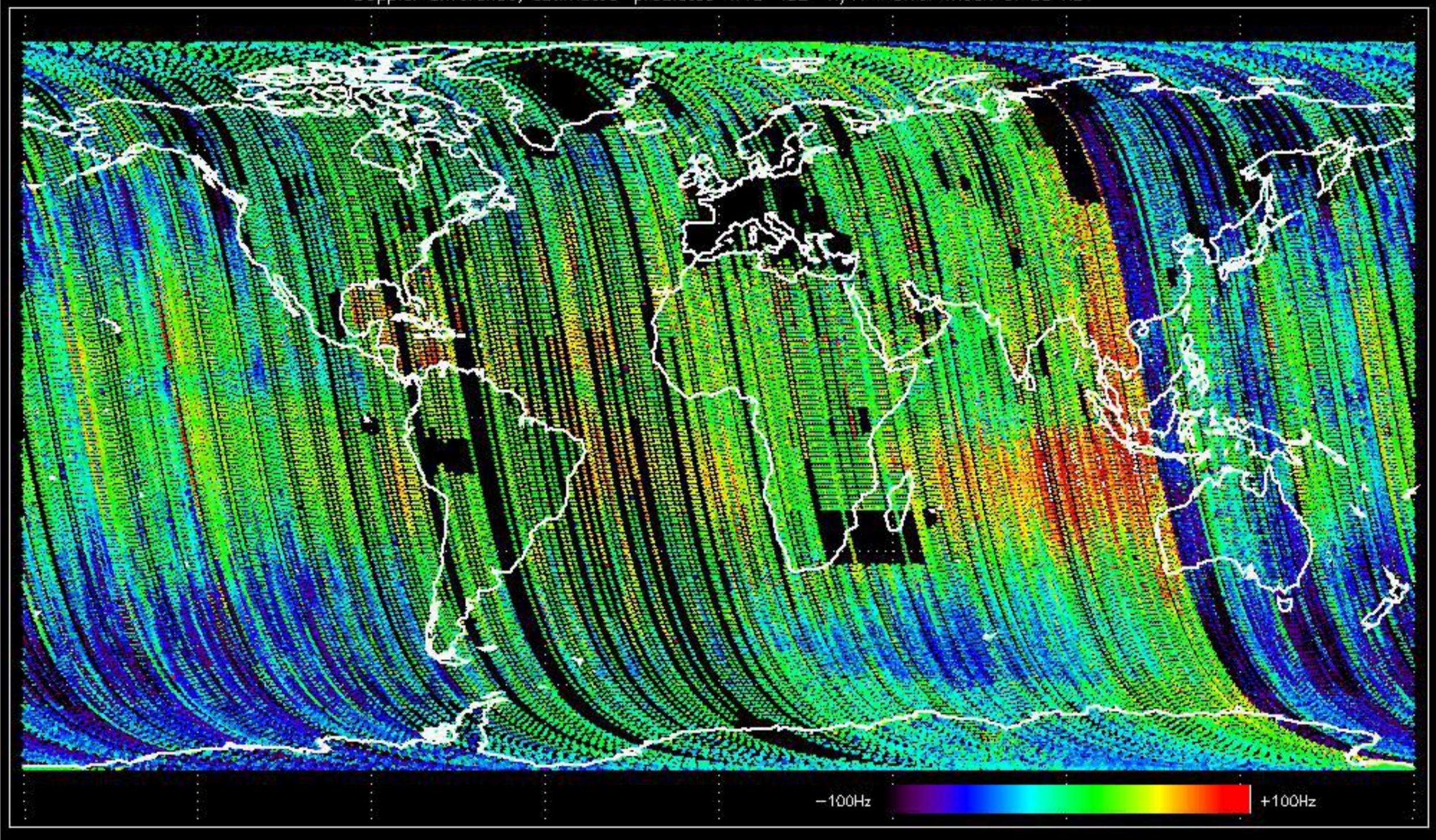
Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H'



Doppler 'WS' 'IS2' 'V/V'

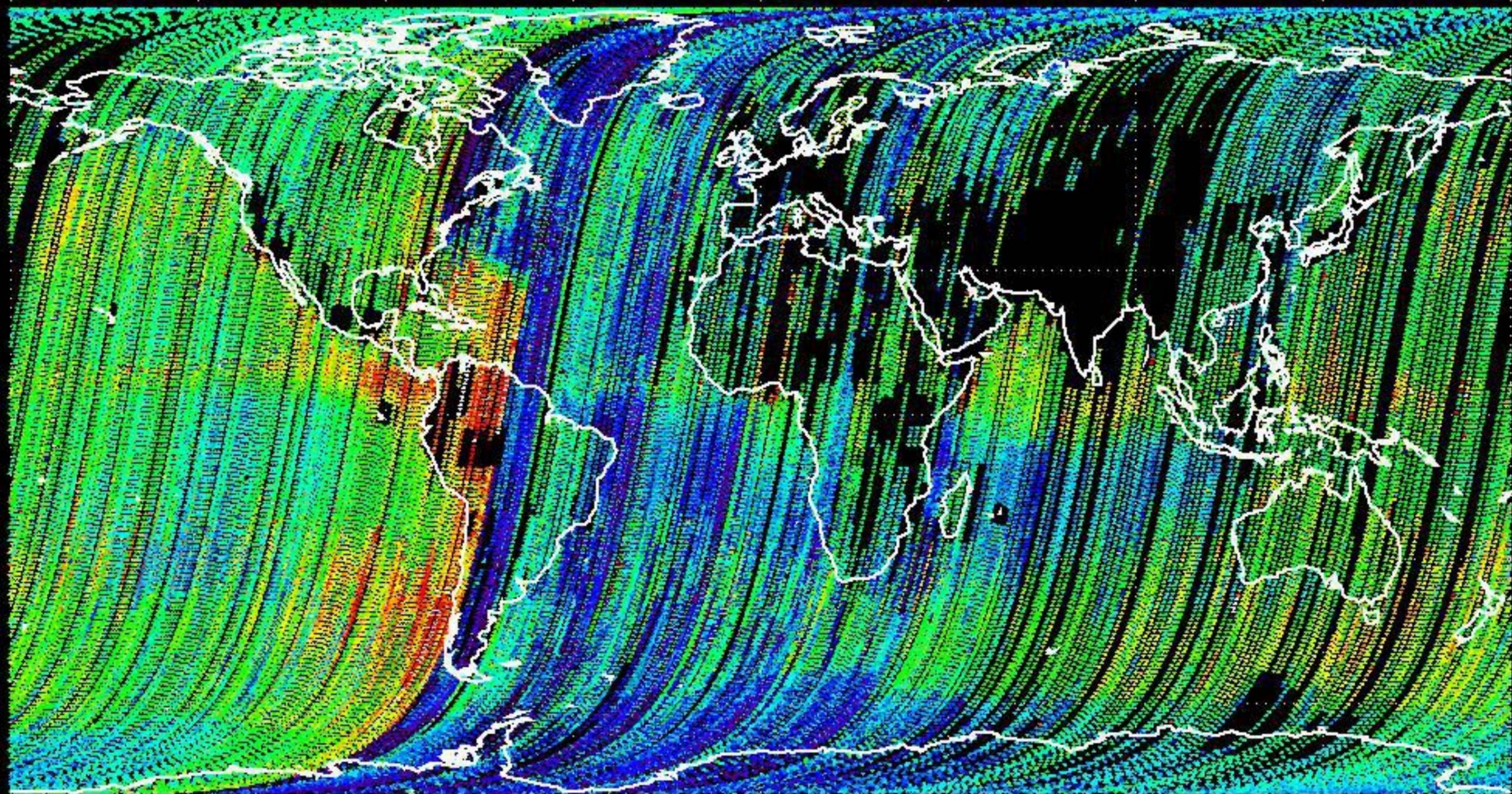


Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



-100Hz  +100Hz

Doppler difference, estimated-predicted 'WS' 'IS2' 'V/V' -error mean of 53 Hz



-100Hz



+100Hz

No anomalies observed on available MS products:

No anomalies observed.

No unavailabilities during the reported period.