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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 EOLI catalogue.

2.3 - Data Analysis

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

3 - Module Stepping Mode

One MS product (V polarization) available on 03-07-2003.
 The reported analysis results for H polarization are those for 02-07-2003 data.
 No anomalies observed.

Polarisation	Start Time
V	20030703 003027
H	20030702 024100

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

Wave mode data acquired from 03-07-2003 06:06:36 to 04-07-03 05:47:43
 No anomalies observed.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
8	mean	-2.45074	-22.4669	-8.09788
	stdev	0.0130313	0.0631421	0.00221383
24	mean	-5.19334	-21.2108	-8.09788
	stdev	0.0135689	0.0615440	0.00221383



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
8	mean	-2.44603	-22.5503	-8.10818
	stdev	0.0127860	0.0687344	0.00317621
24	mean	-5.15502	-21.1937	-8.10818
	stdev	0.0125935	0.0564170	0.00317621



4.3 - cal pulses monitoring (all row)



5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000455608
	stdev	3.06114e-07
MEAN Q	mean	0.000292019
	stdev	3.13885e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.112571
	stdev	0.0015837
STDEV Q	mean	0.112682
	stdev	0.00161248



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomalies observed Doppler evolution.
Doppler data 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

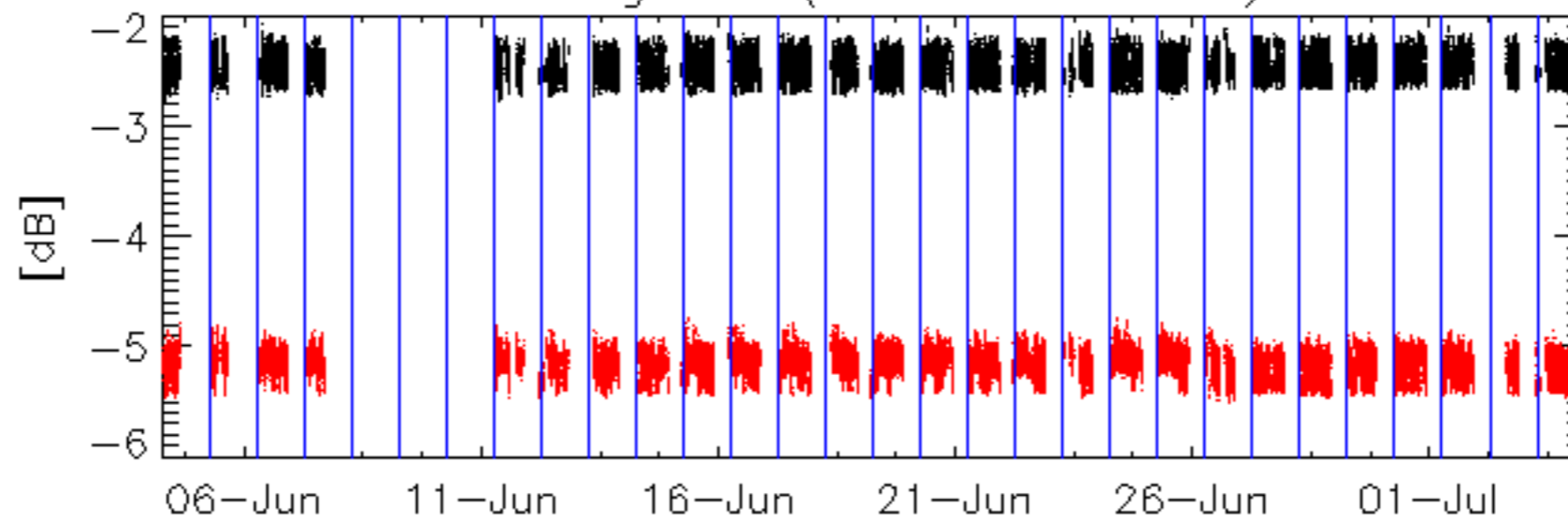
Evolution of Absolute Doppler
Ascending
Descending

6.3 - Doppler evolution versus ANX

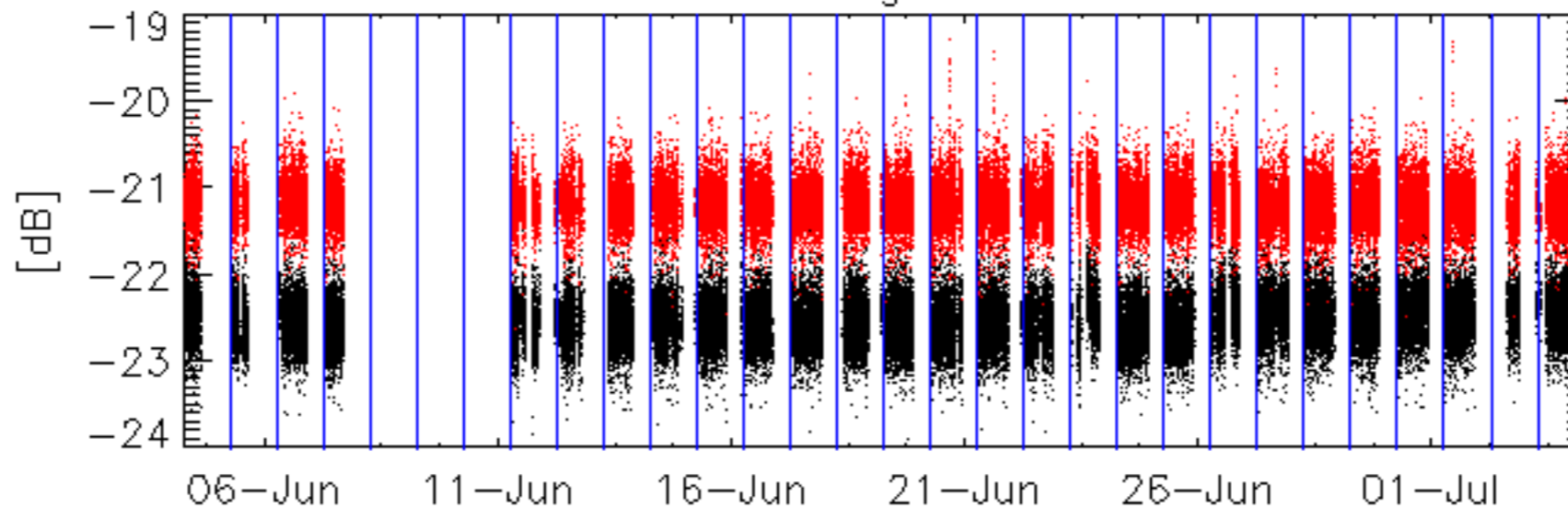
Evolution Doppler error versus ANX



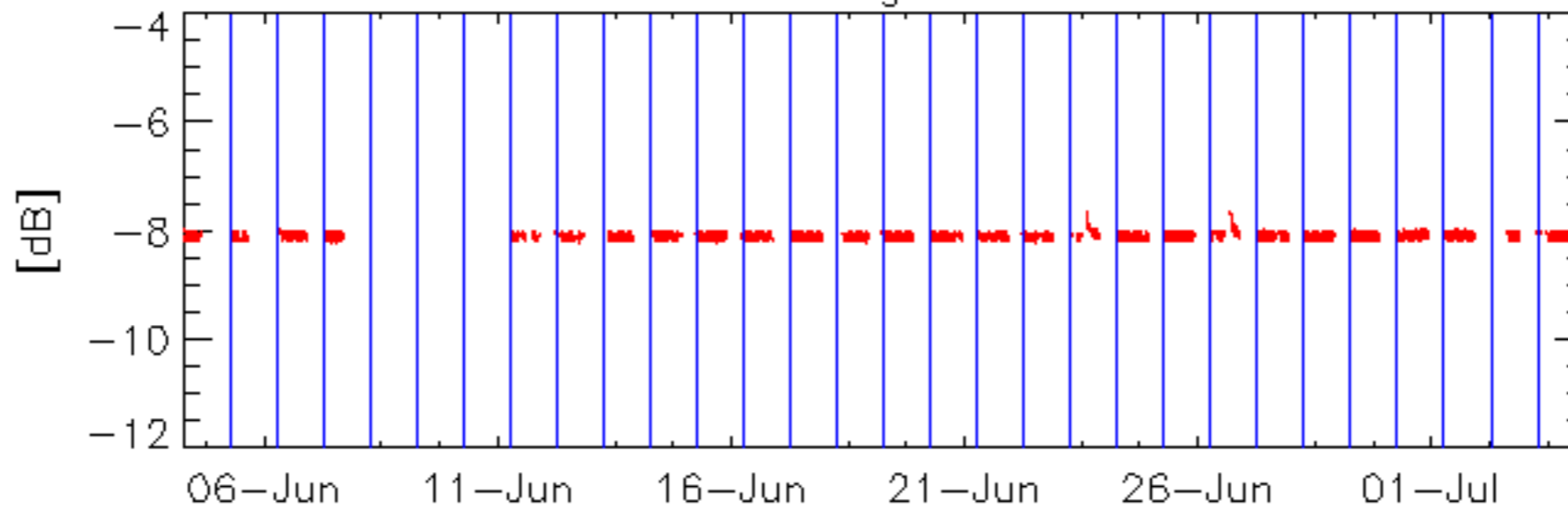
Average P1 (row 8 & row 24)

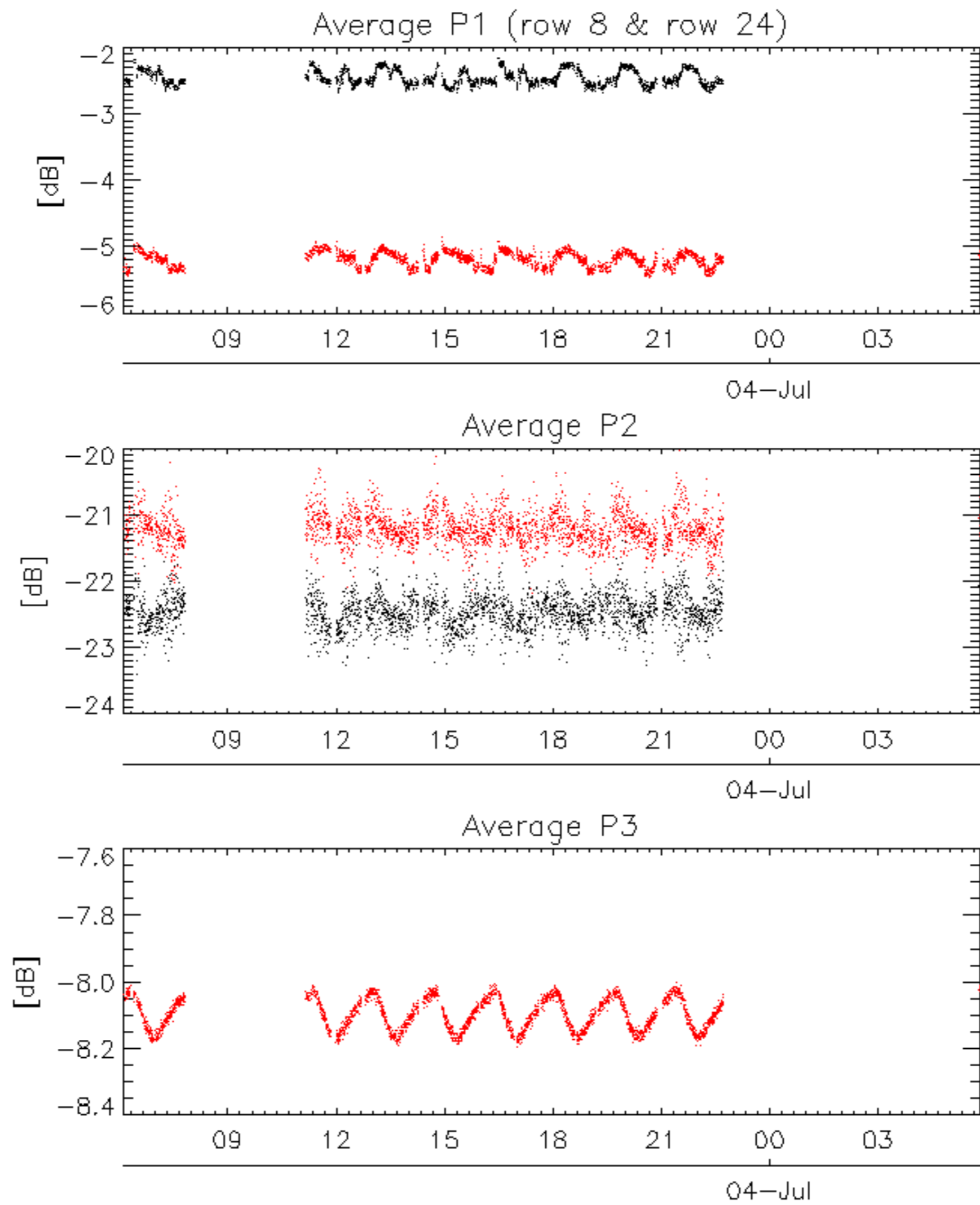


Average P2



Average P3

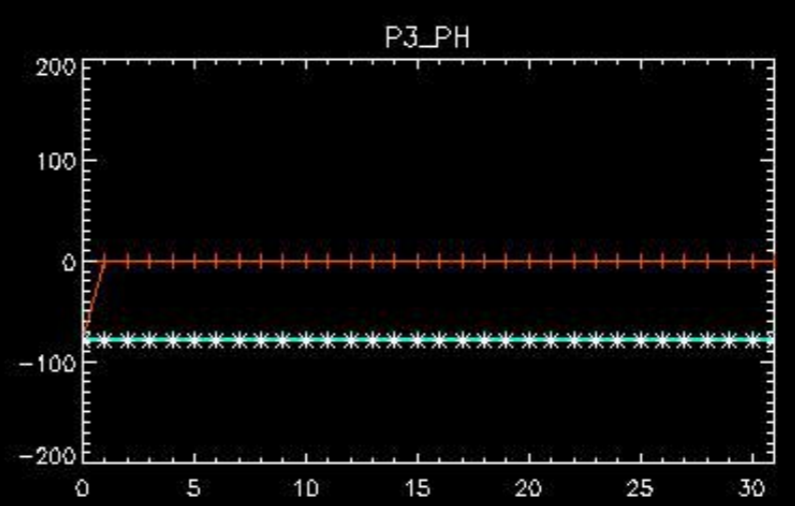
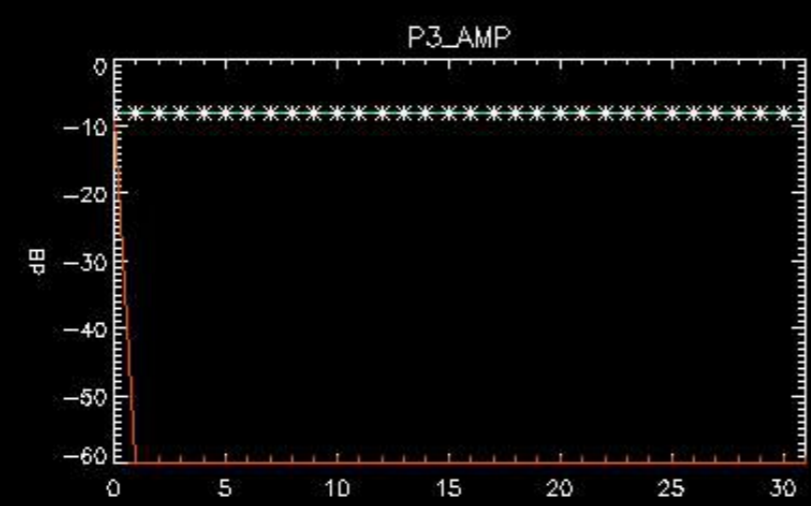
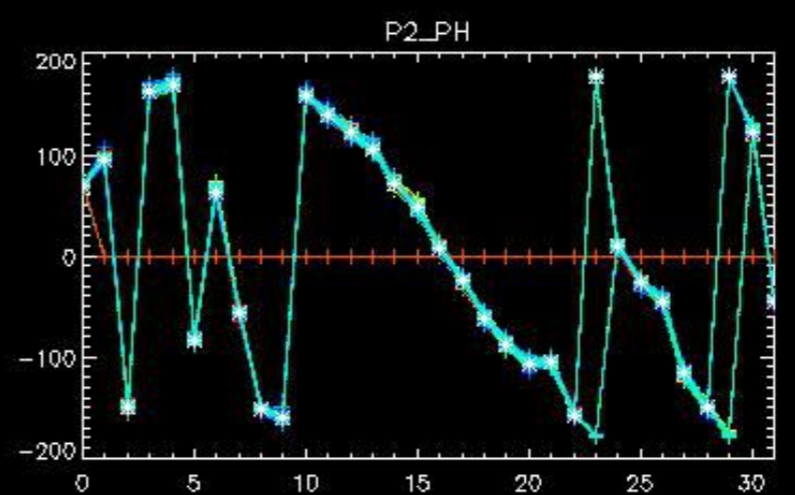
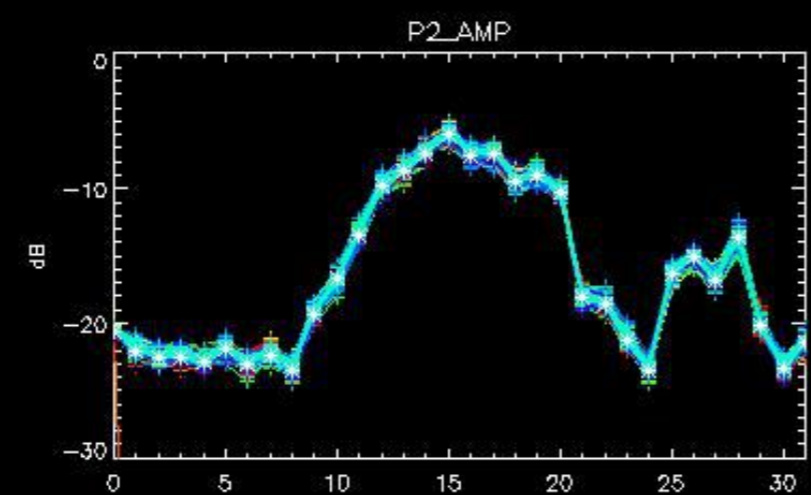
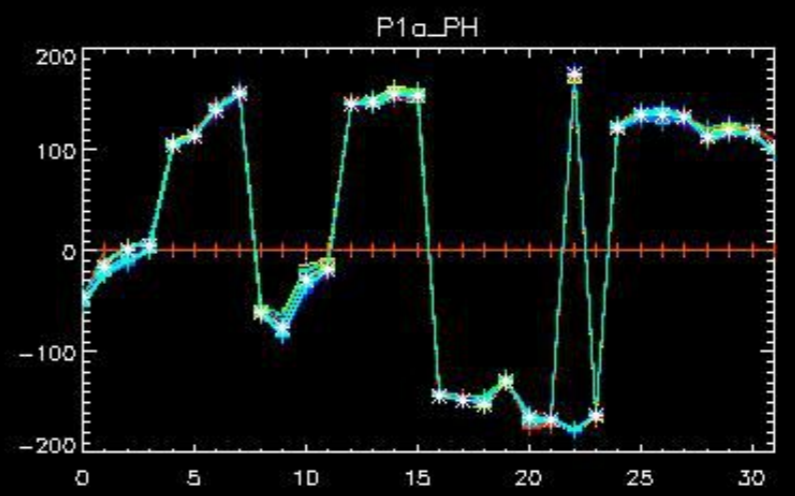
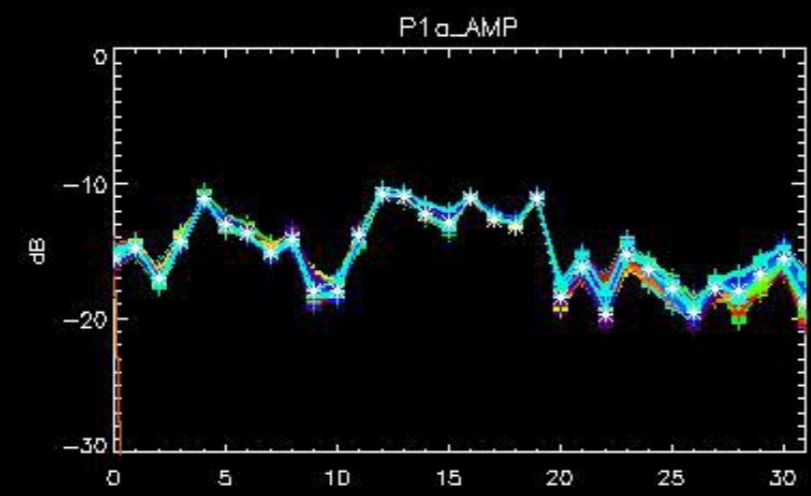
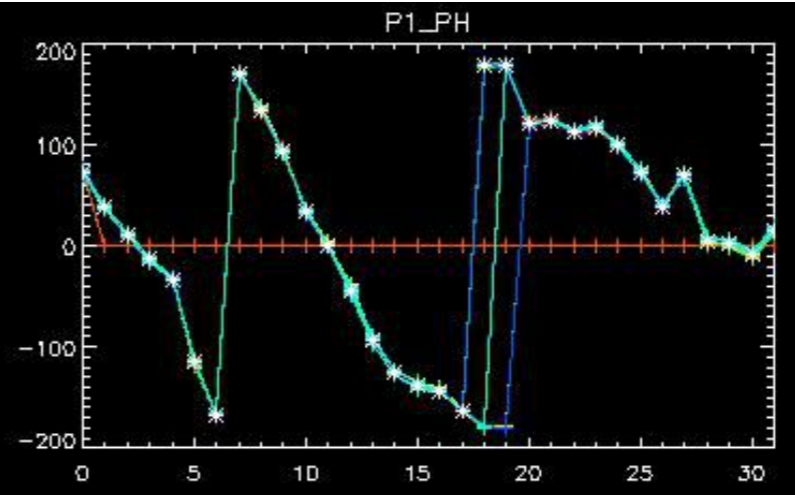
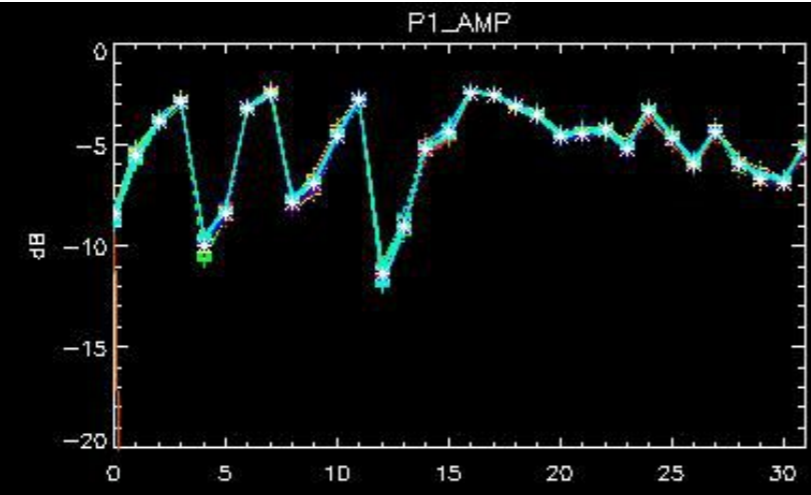




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Wave mode data acquired from 03-07-2003 06:06:36 to 04-07-03 05:47:43
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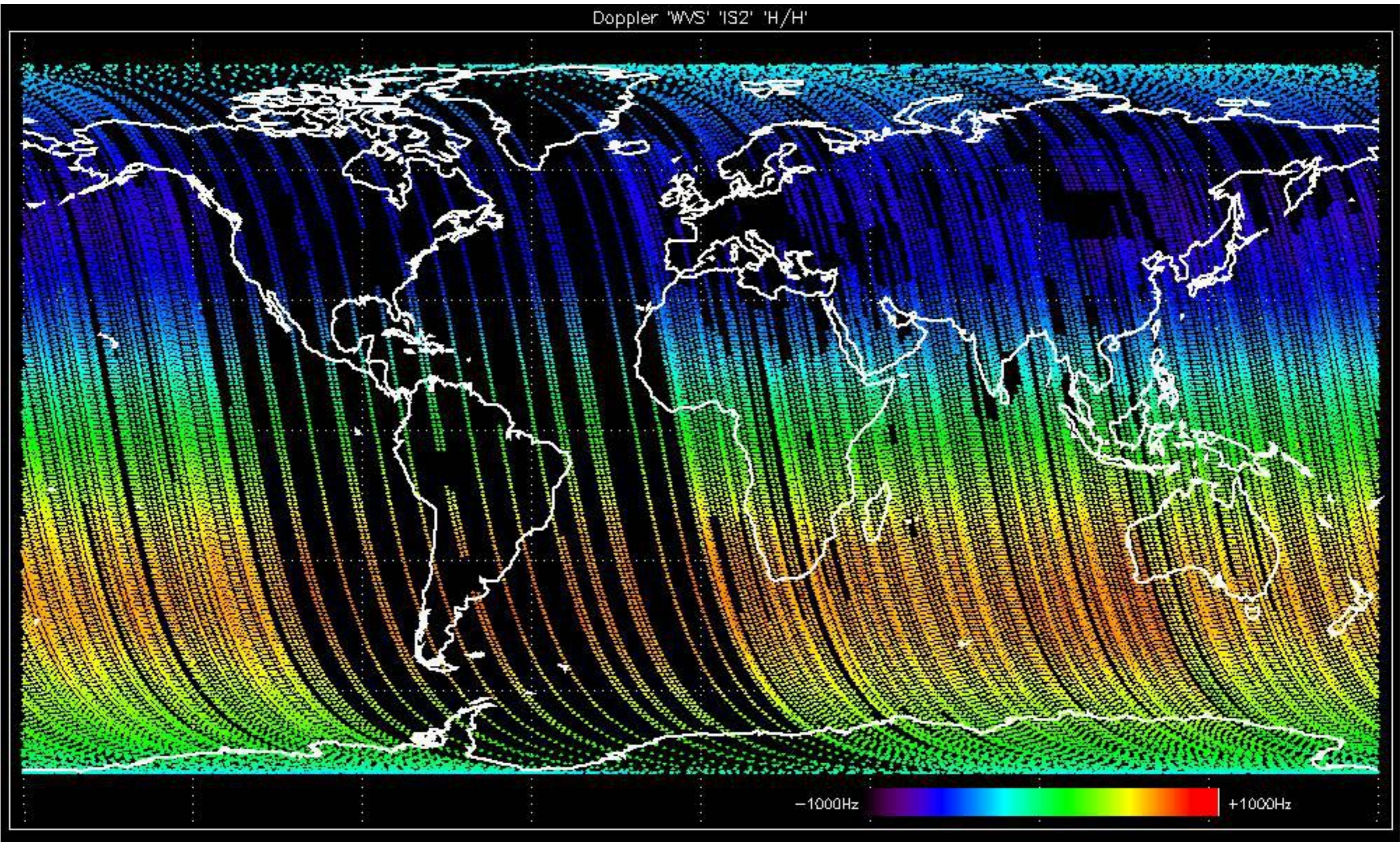




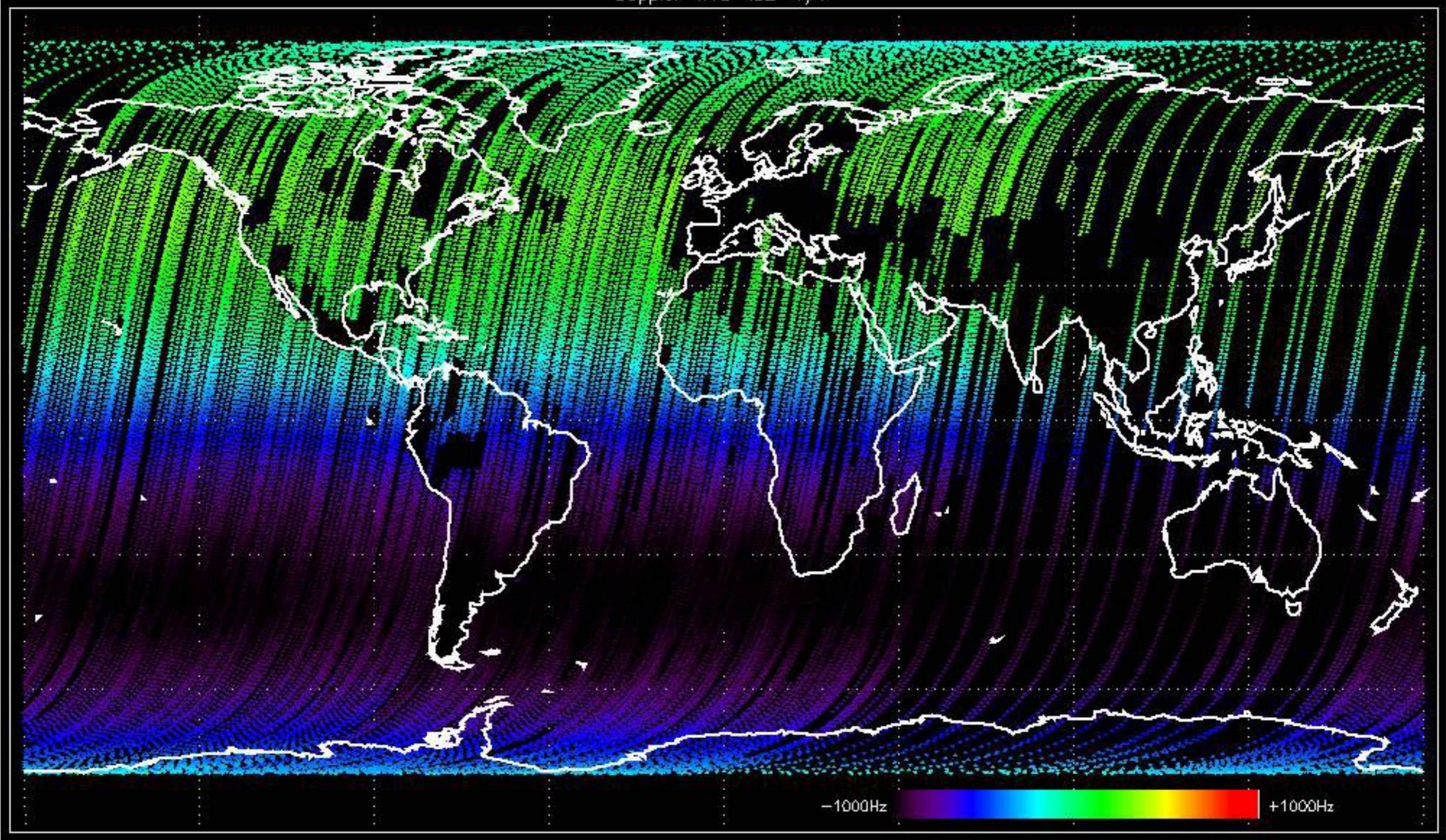
- Stable wave internal calibration pulses gain and phase.
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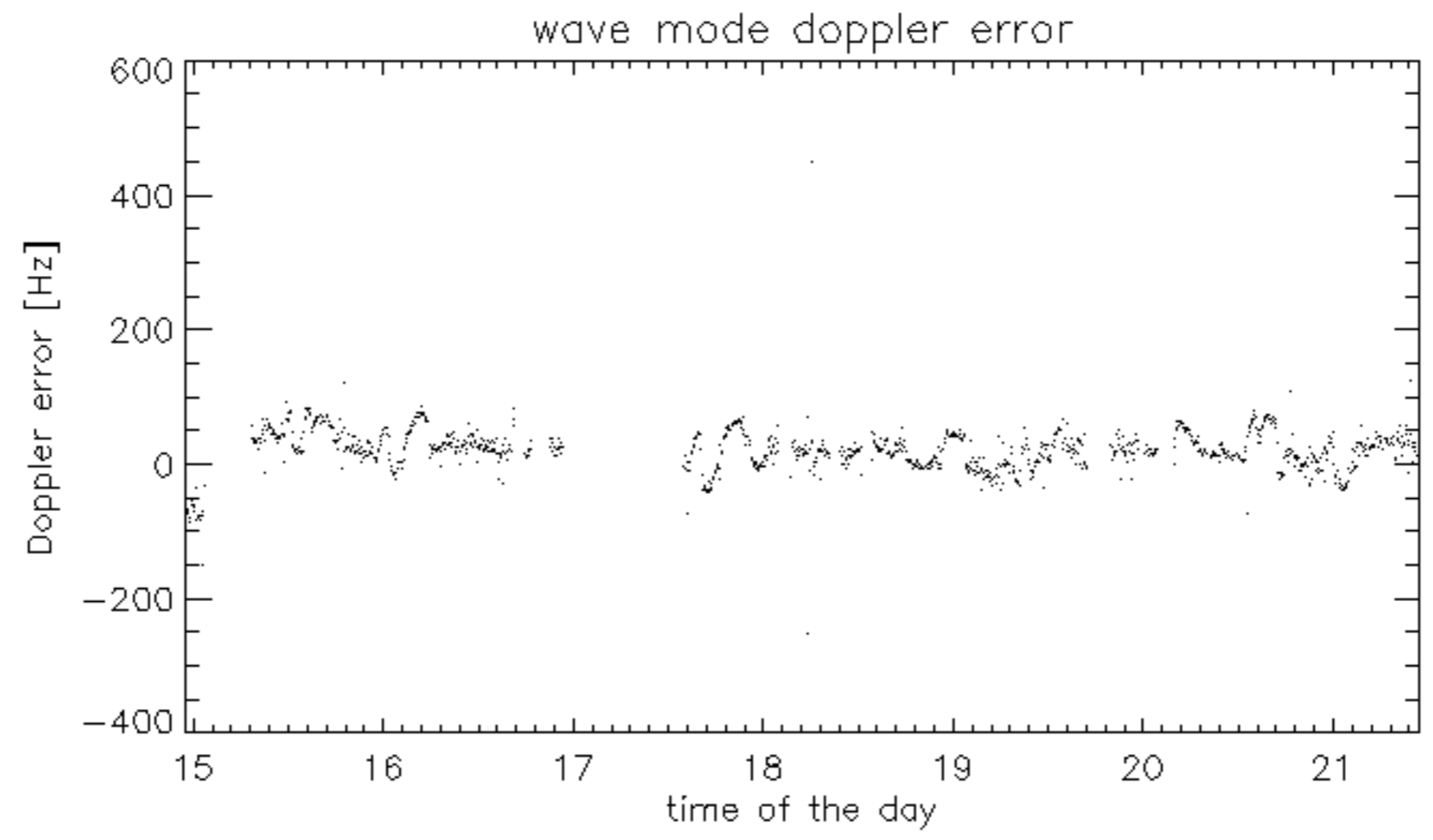
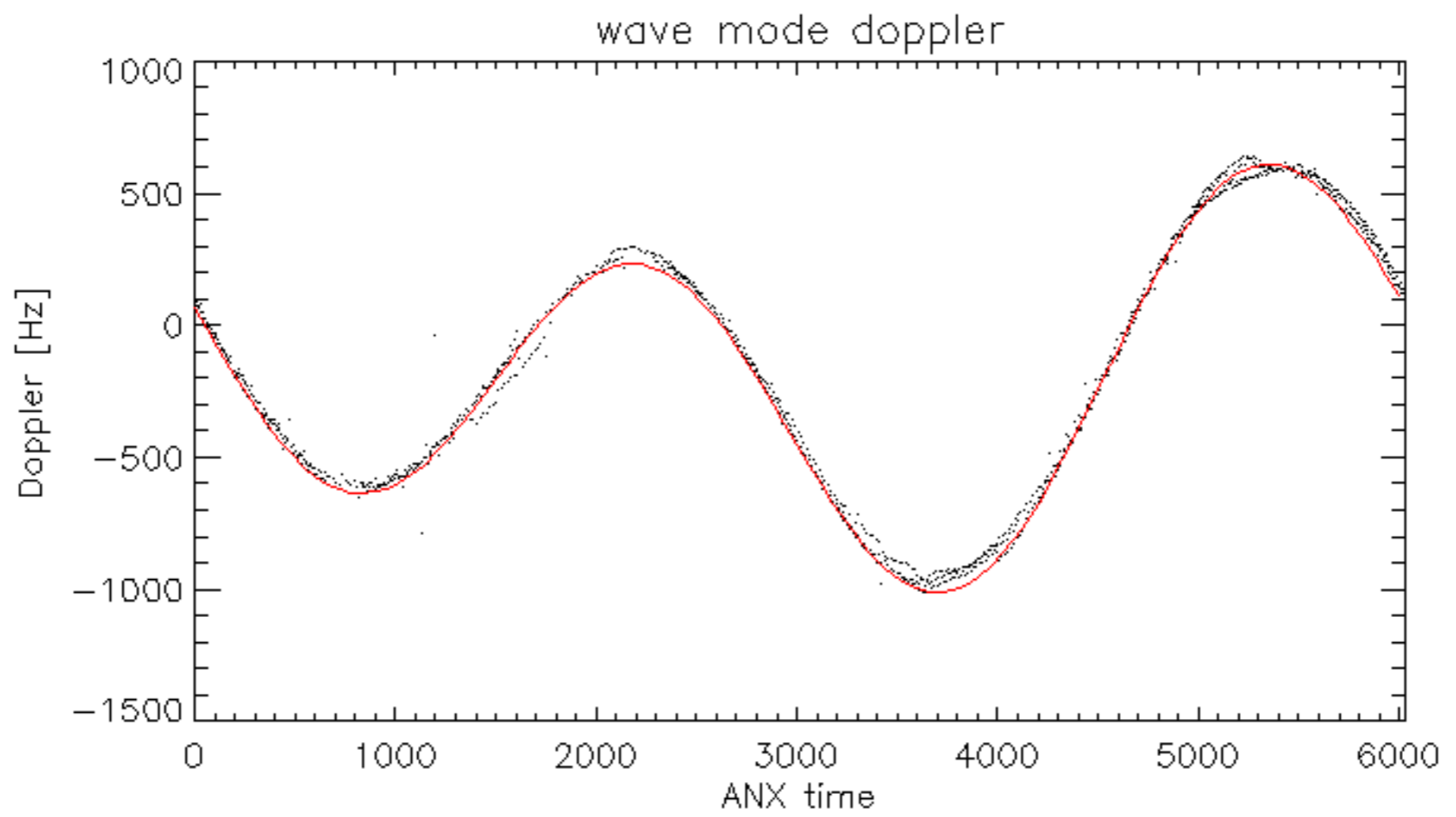
No anomalies observed Doppler evolution.

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

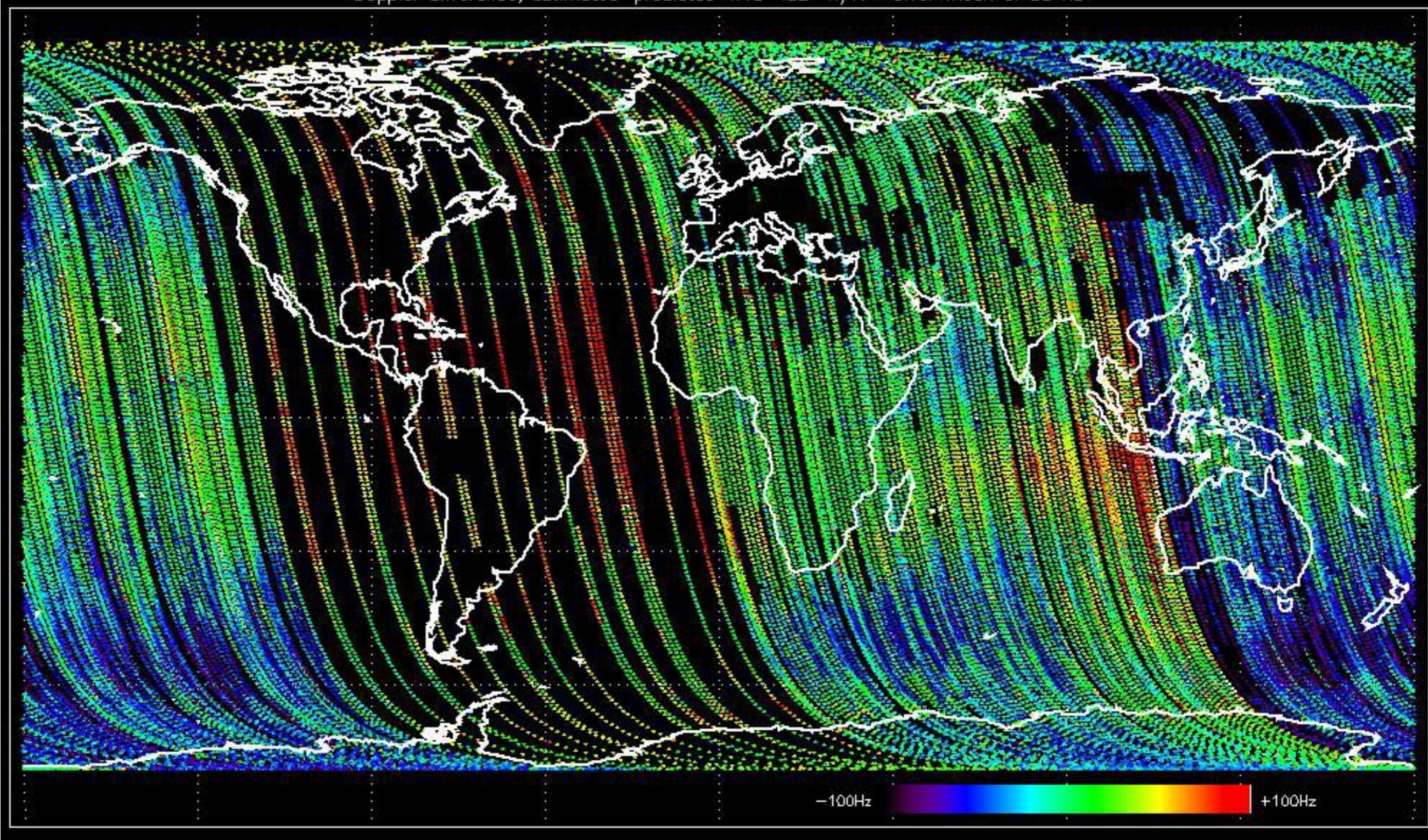


Doppler 'WVS' 'IS2' 'V/V'

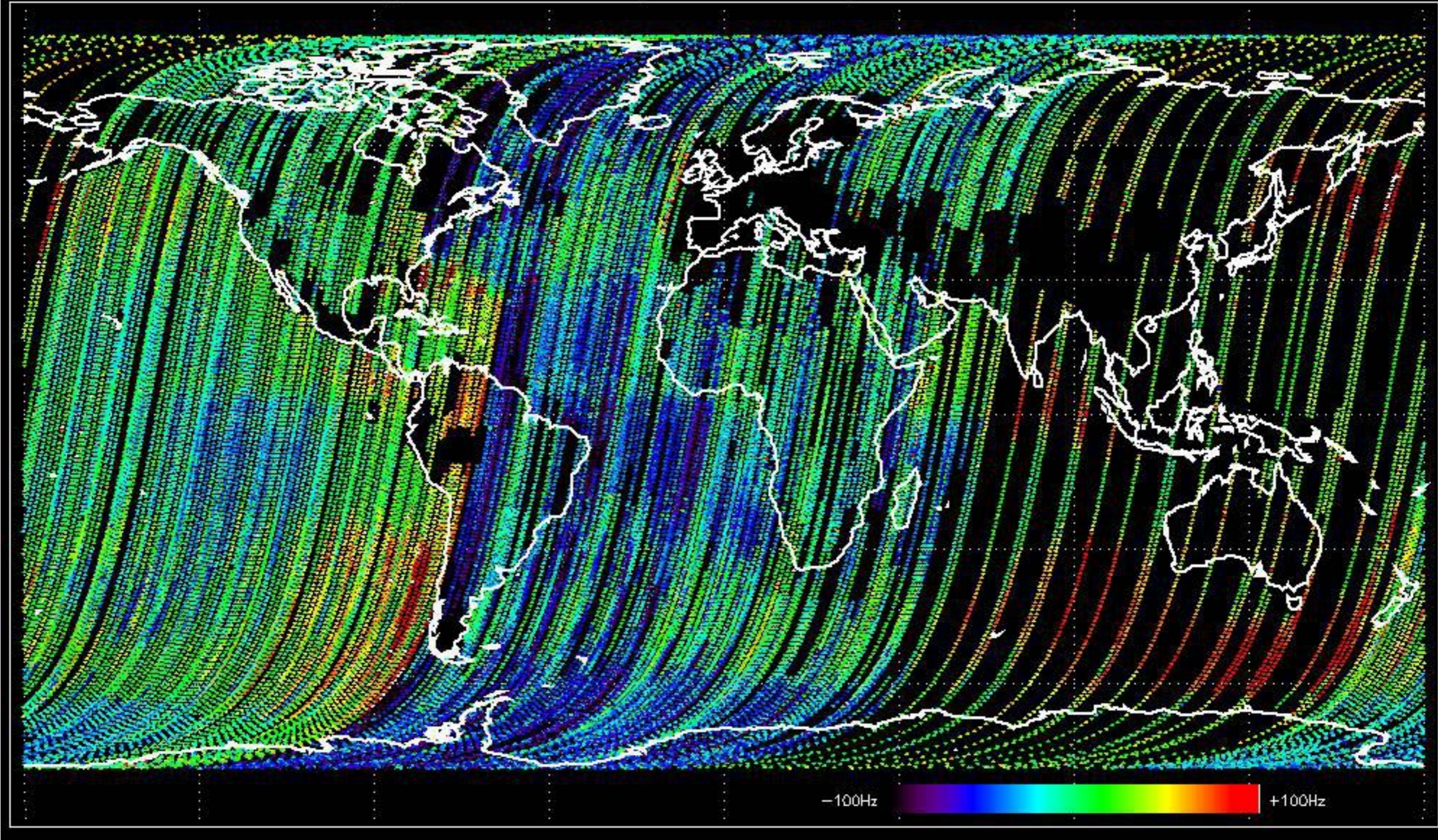




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz

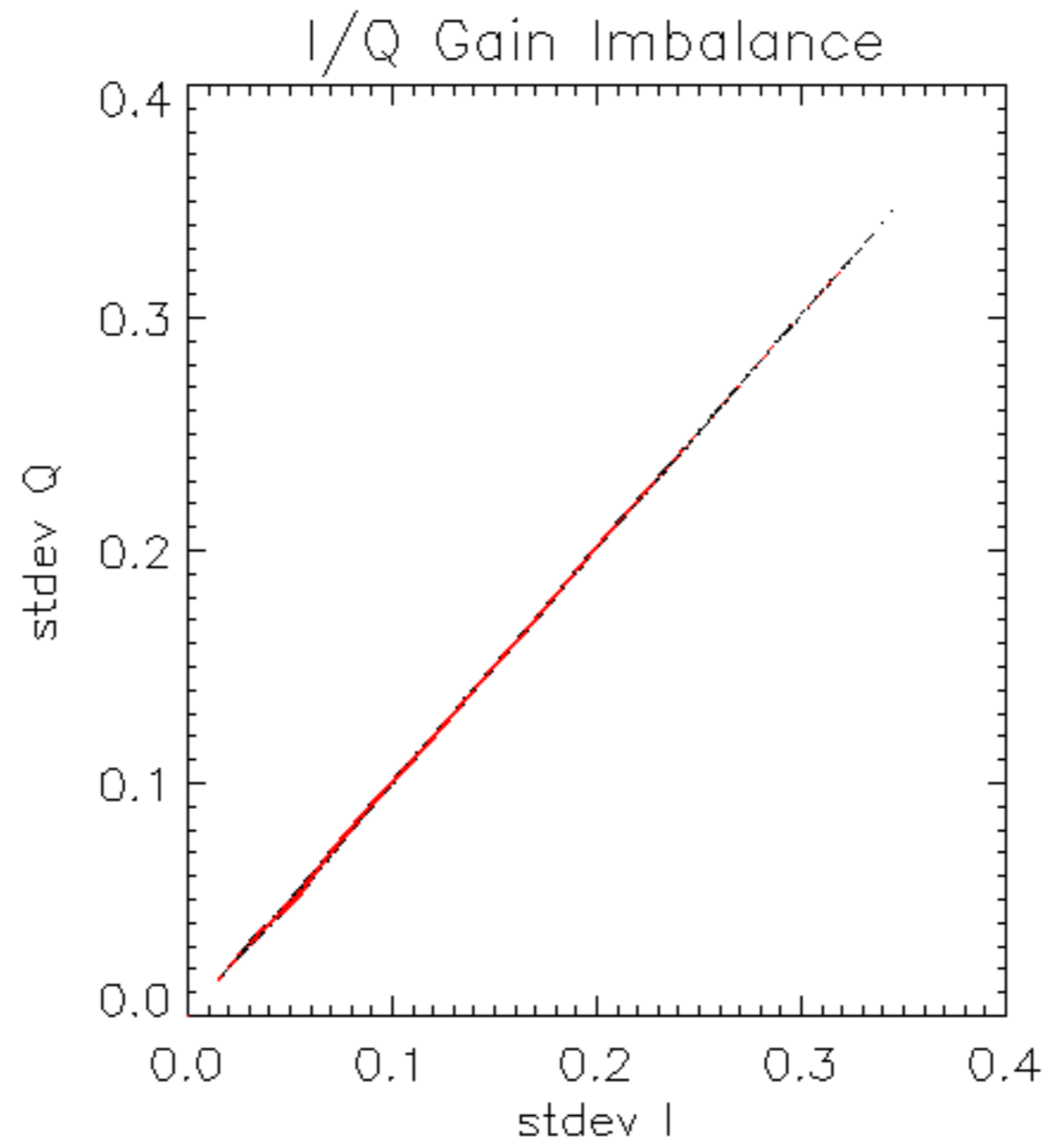


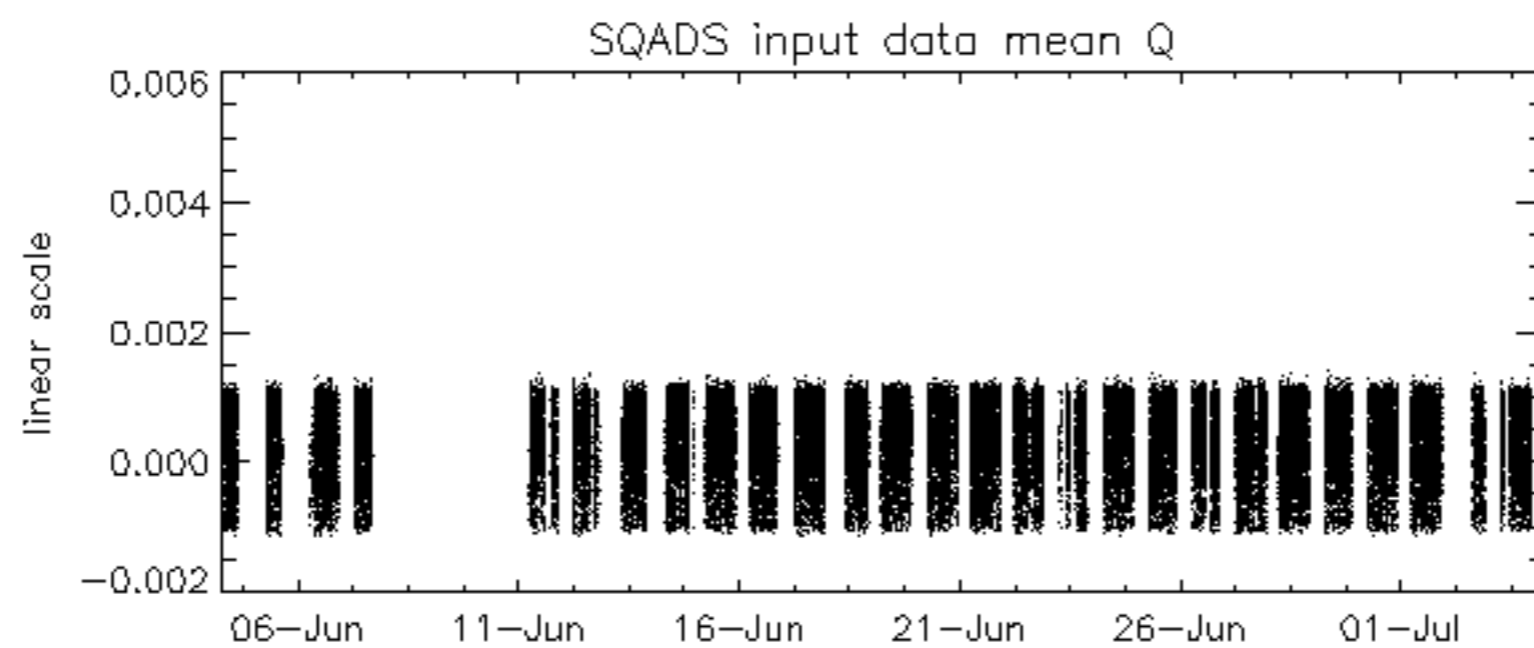
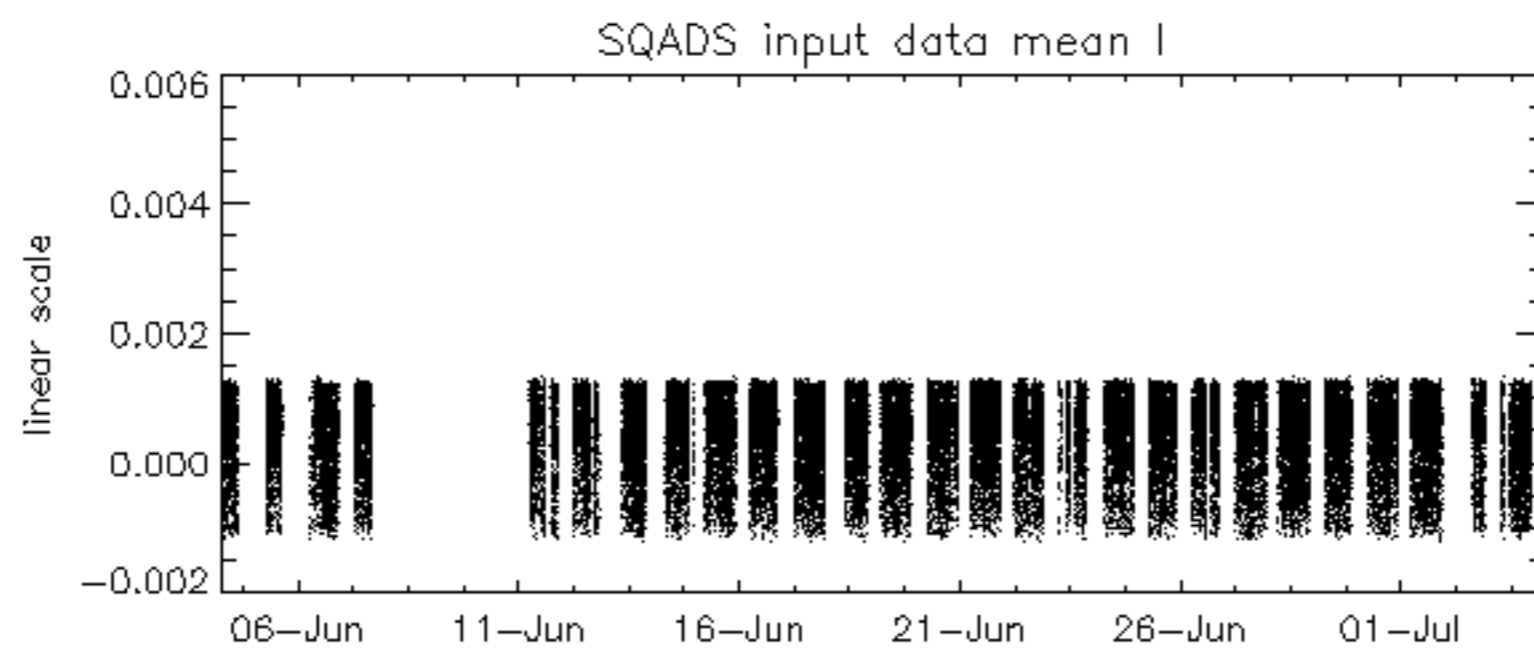
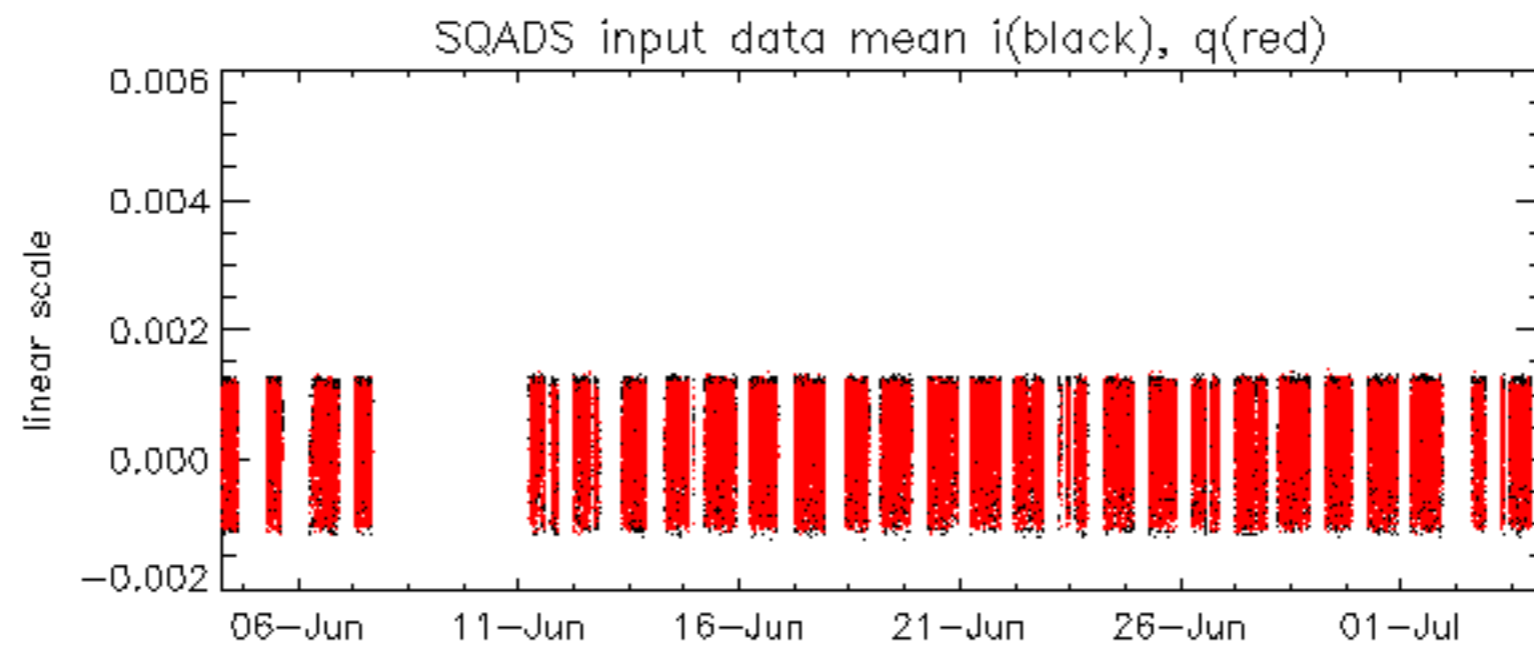
Doppler difference, estimated-predicted 'WS' 'IS2' 'V/V' -error mean of 53 Hz

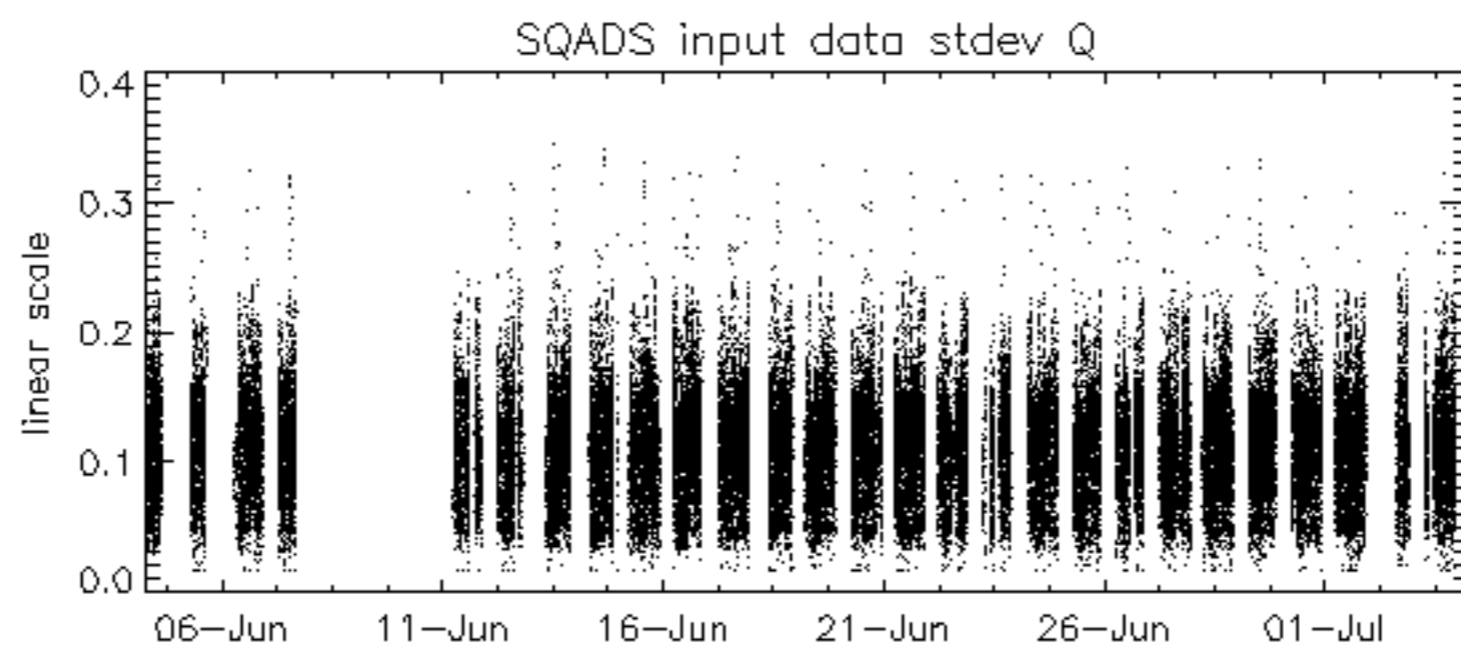
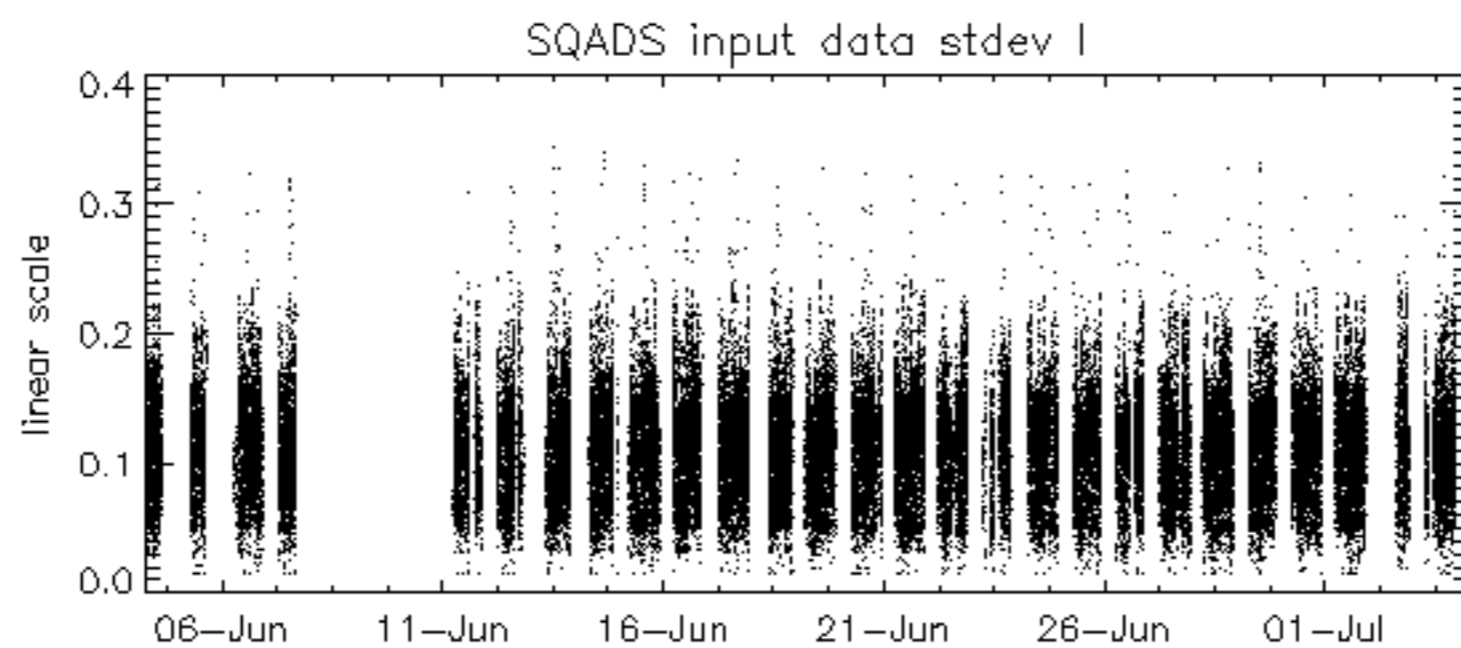
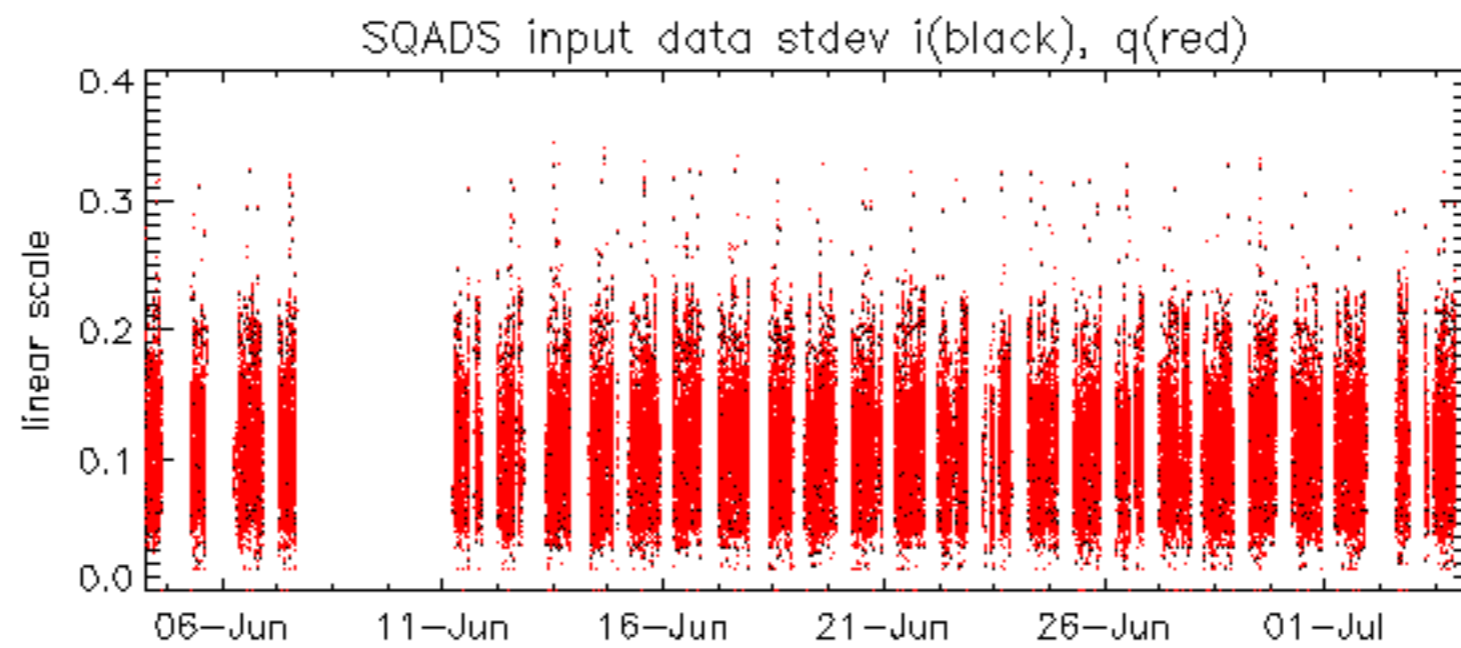


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No anomalies observed.

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