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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.

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.

Polarisation	Start Time
V	20030723 200857
H	20030723 200717

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	-3.82718	-22.5949	-8.10926
	stdev	0.00535959	0.0639466	0.00221622
10	mean	-6.87636	-19.3275	-8.10926
	stdev	0.0332423	0.0623707	0.00221622



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.87480	-22.5686	-8.10047
	stdev	0.0846802	0.0631455	0.00308955
10	mean	-6.97140	-19.3237	-8.10047
	stdev	0.407342	0.0619880	0.00308955



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	0.000478383
	stdev	3.00050e-07
MEAN Q	mean	0.000315764
	stdev	3.13047e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.114348
	stdev	0.00159222
STDEV Q	mean	0.114447
	stdev	0.00162352



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

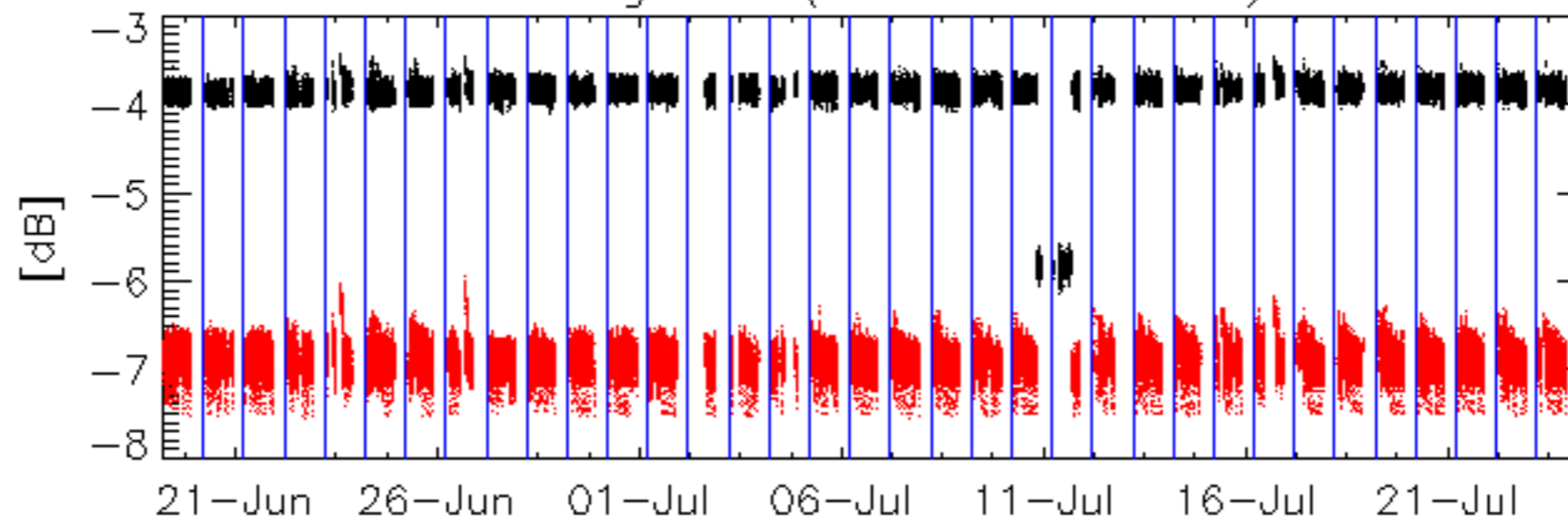
6.2 - Absolute Doppler

Evolution of Absolute Doppler
Ascending
Descending

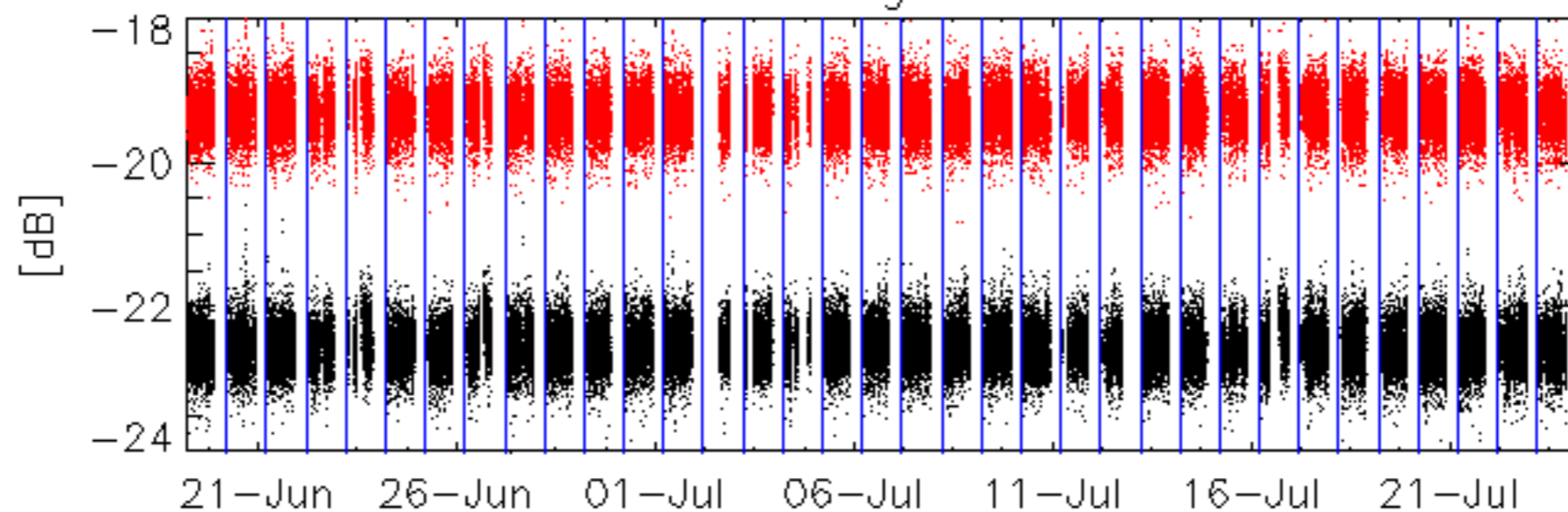
6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX
<input type="checkbox"/>

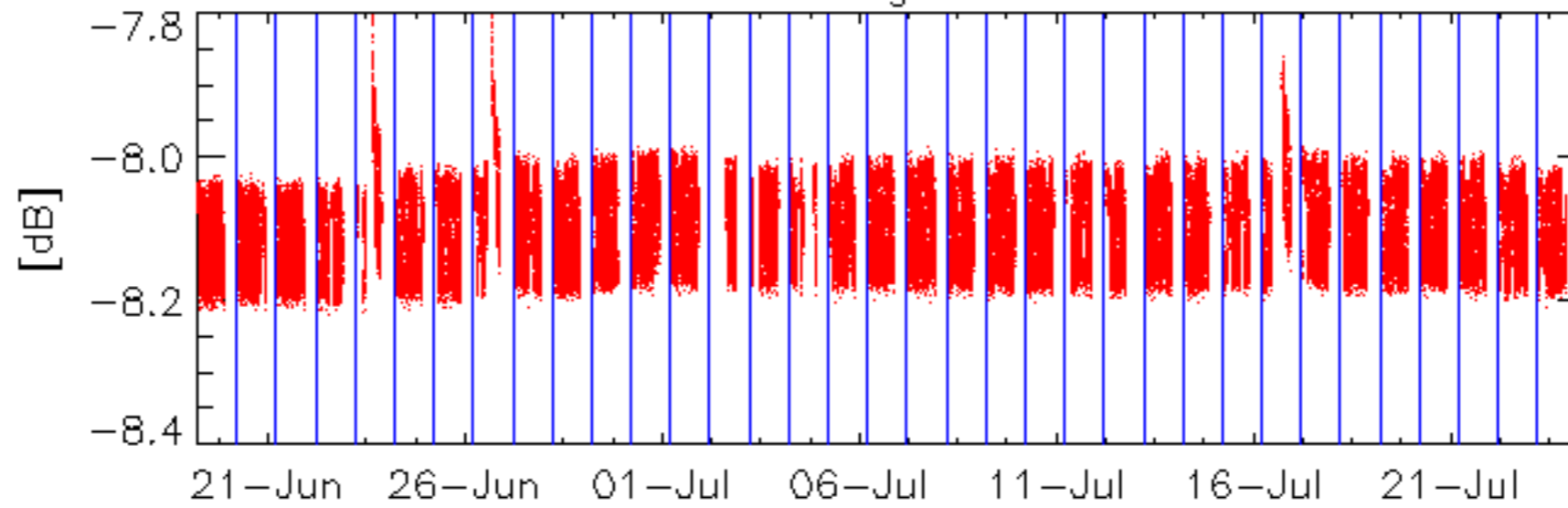
Average P1 (row 3 & row 10)



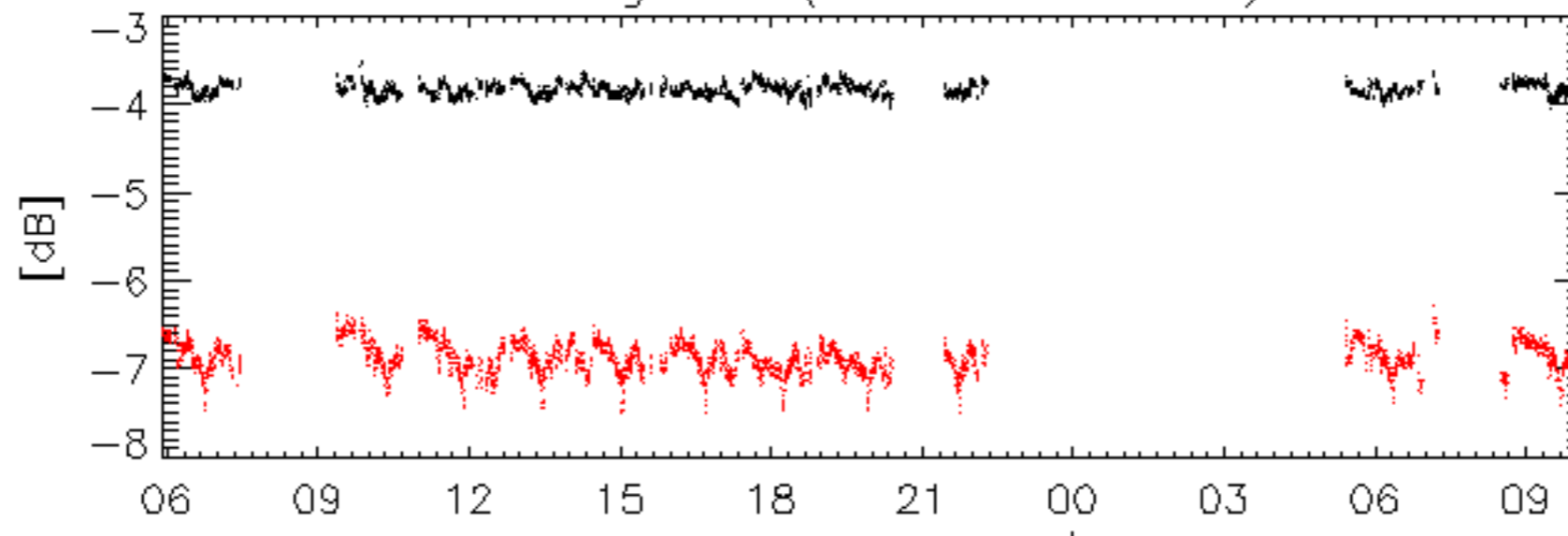
Average P2



Average P3

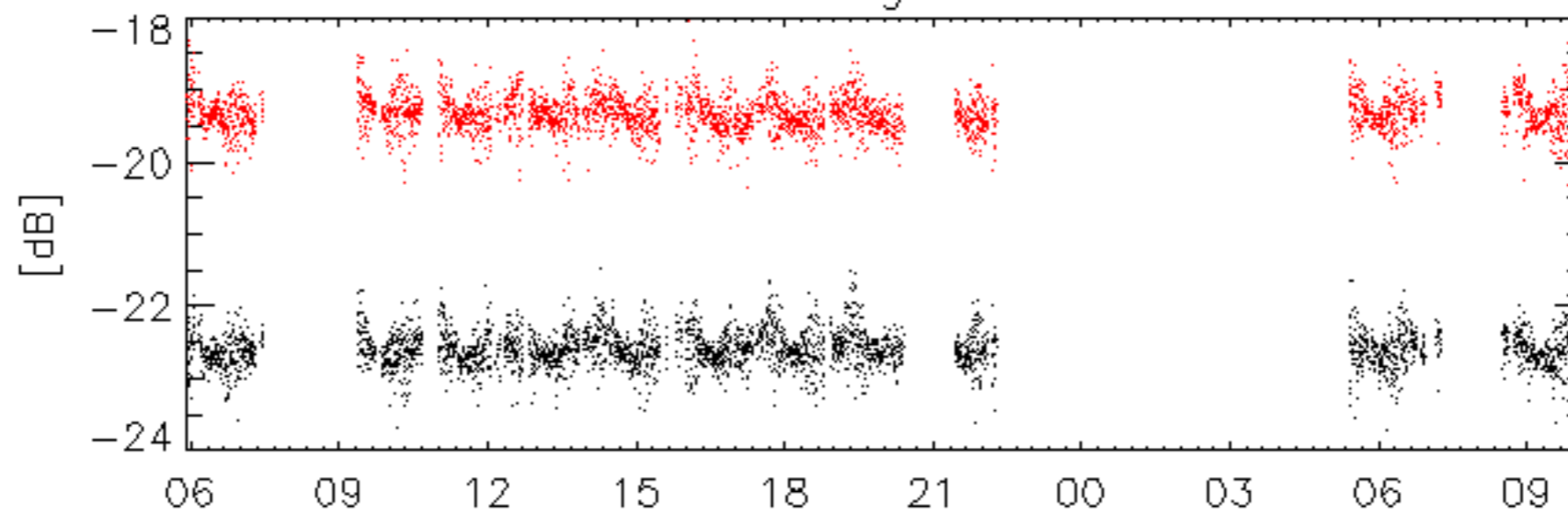


Average P1 (row 3 & row 10)



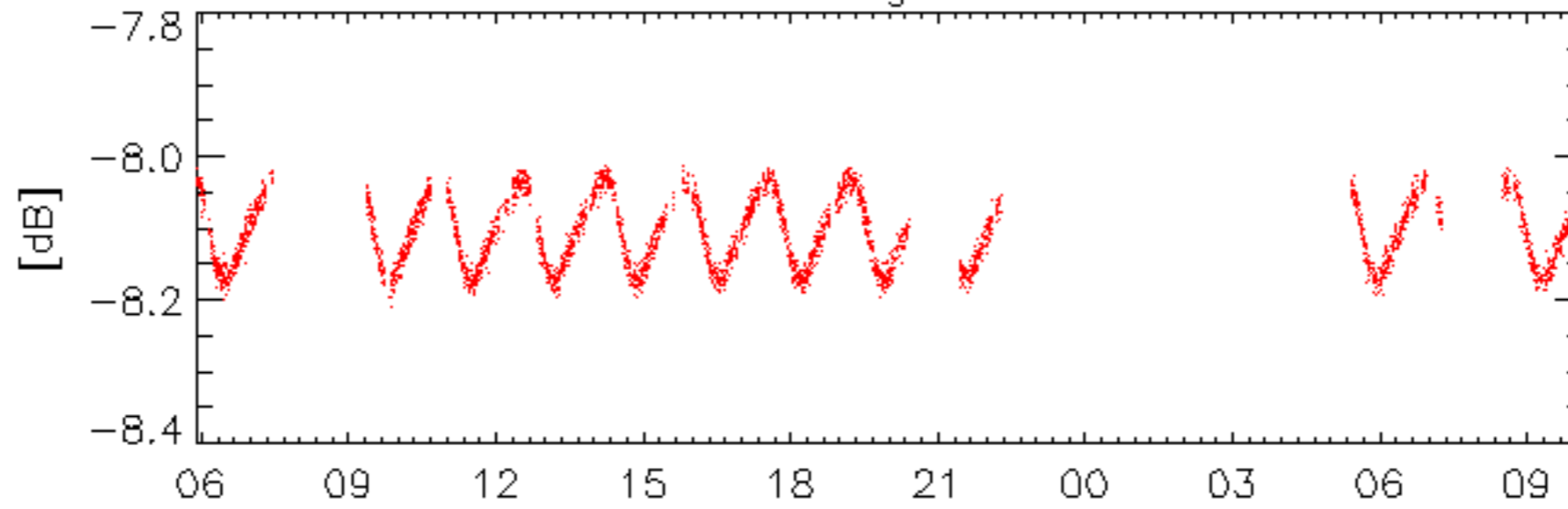
24-Jul

Average P2



24-Jul

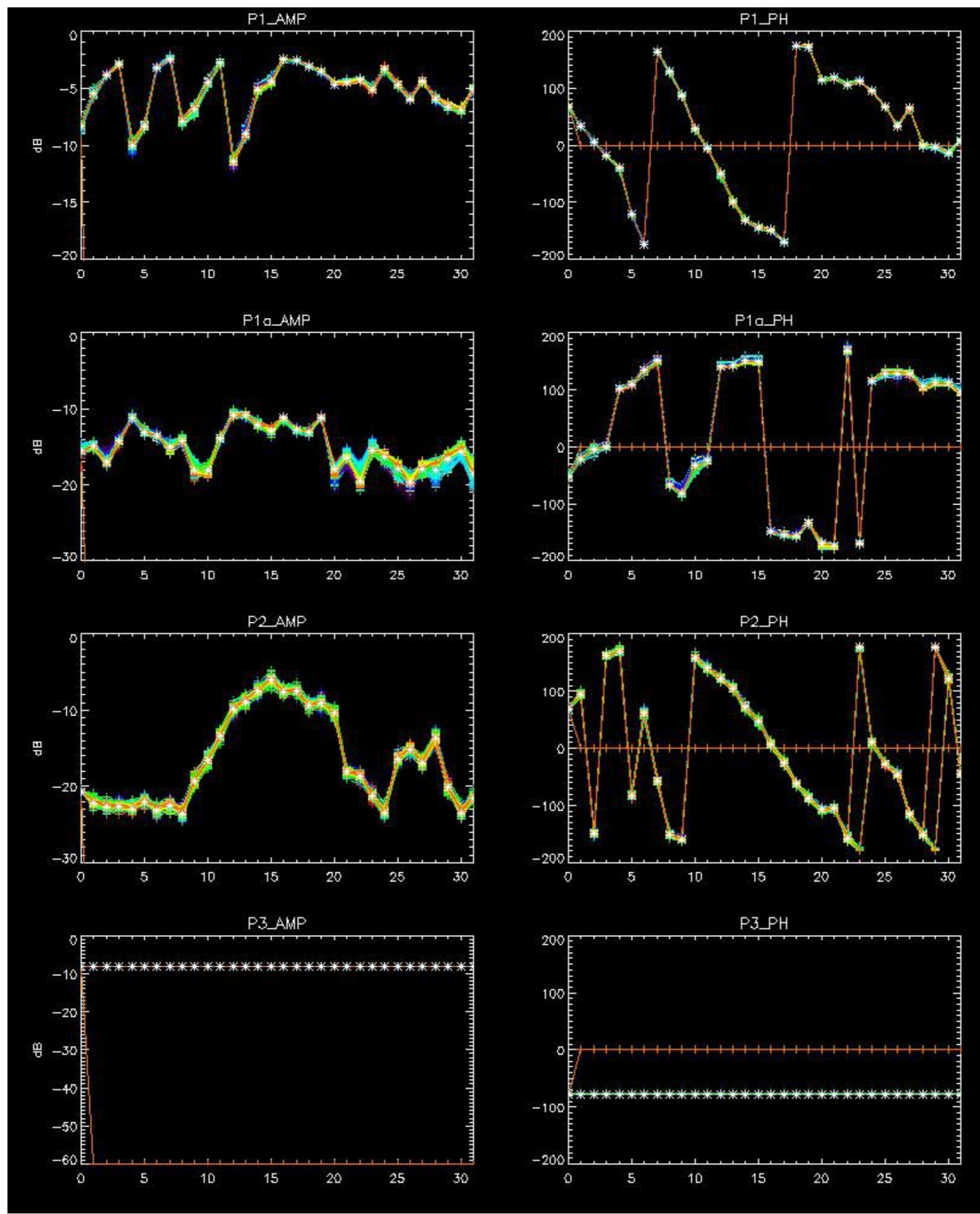
Average P3



24-Jul

No anomalies observed.

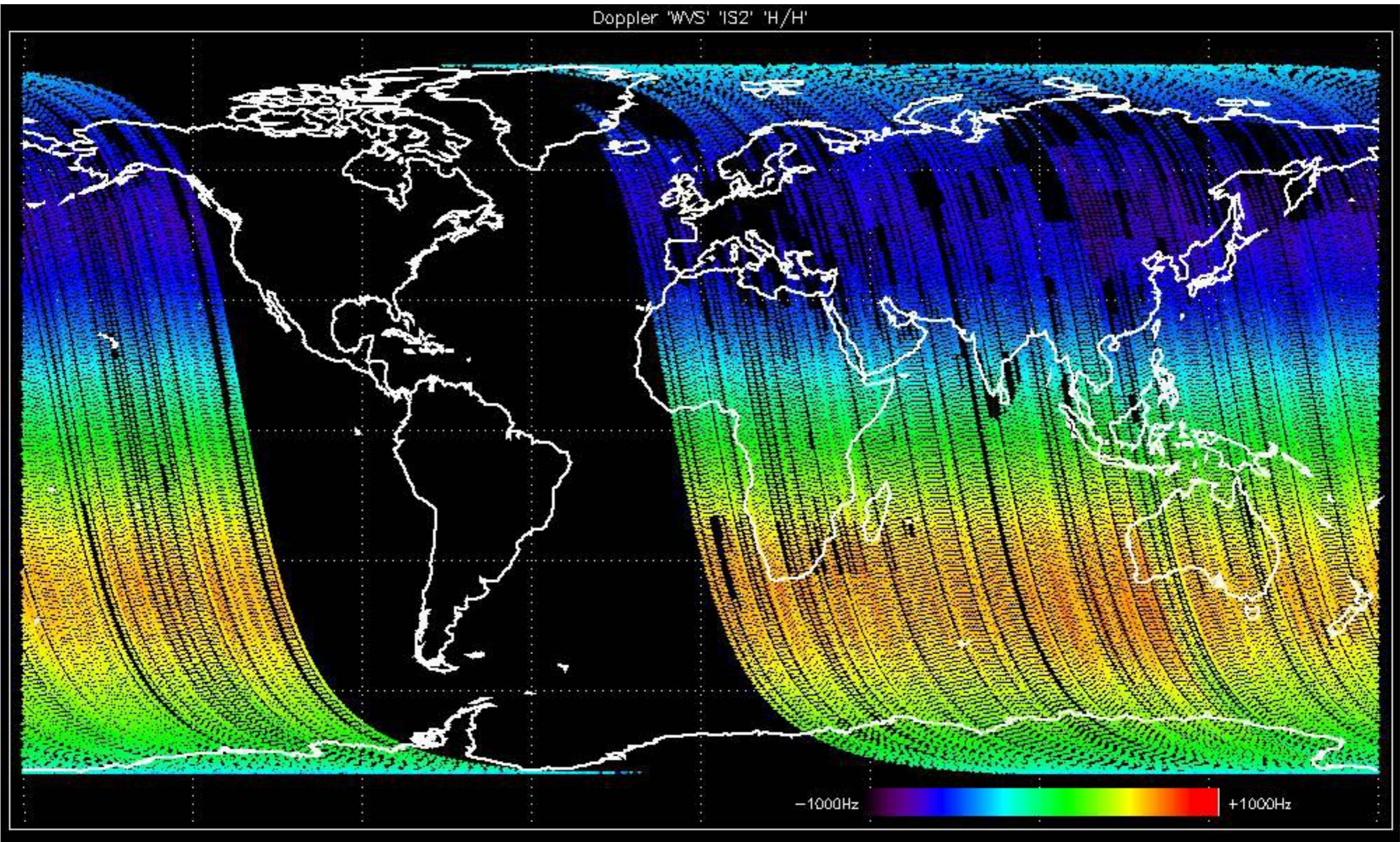
No anomalies observed.



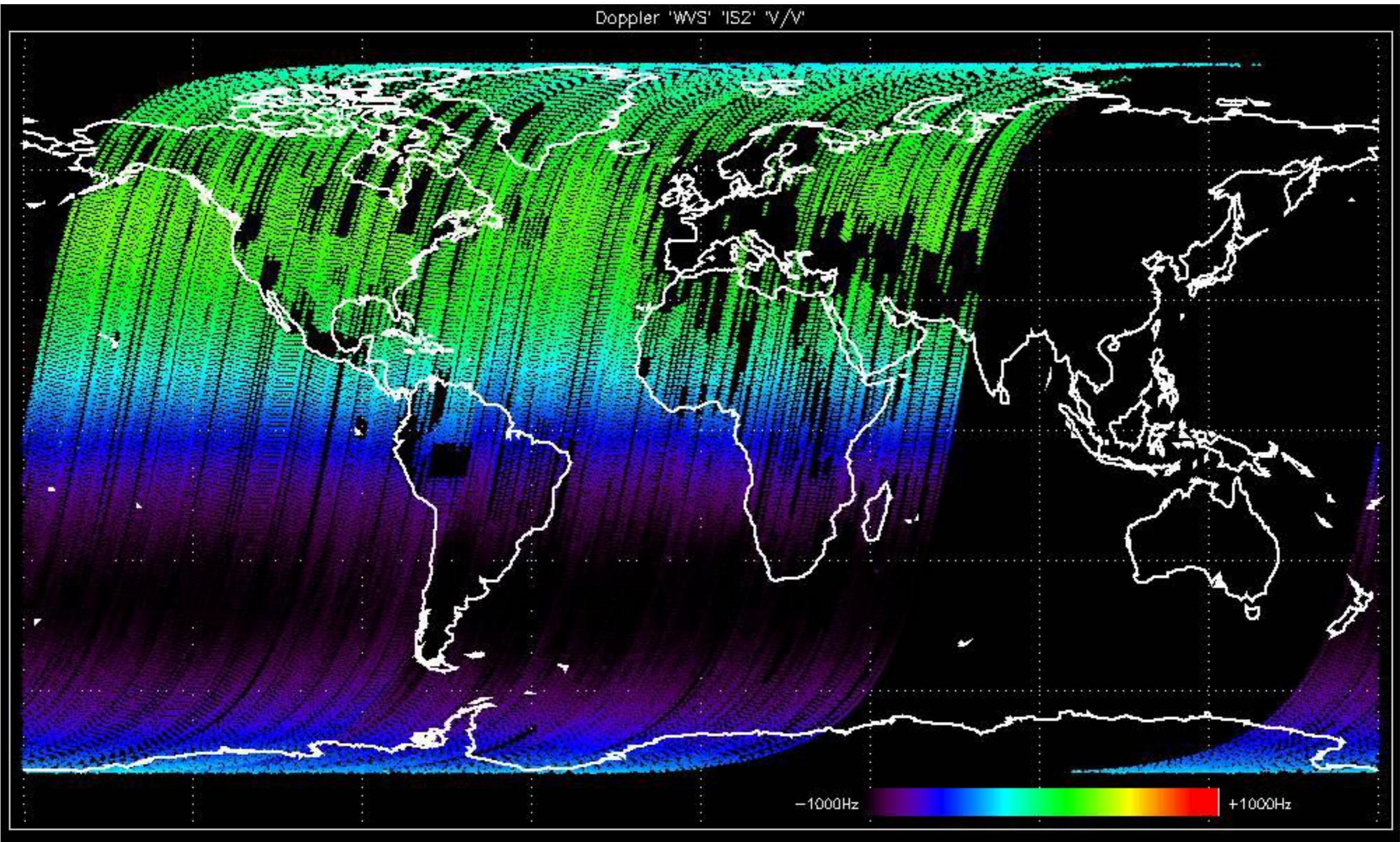
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

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

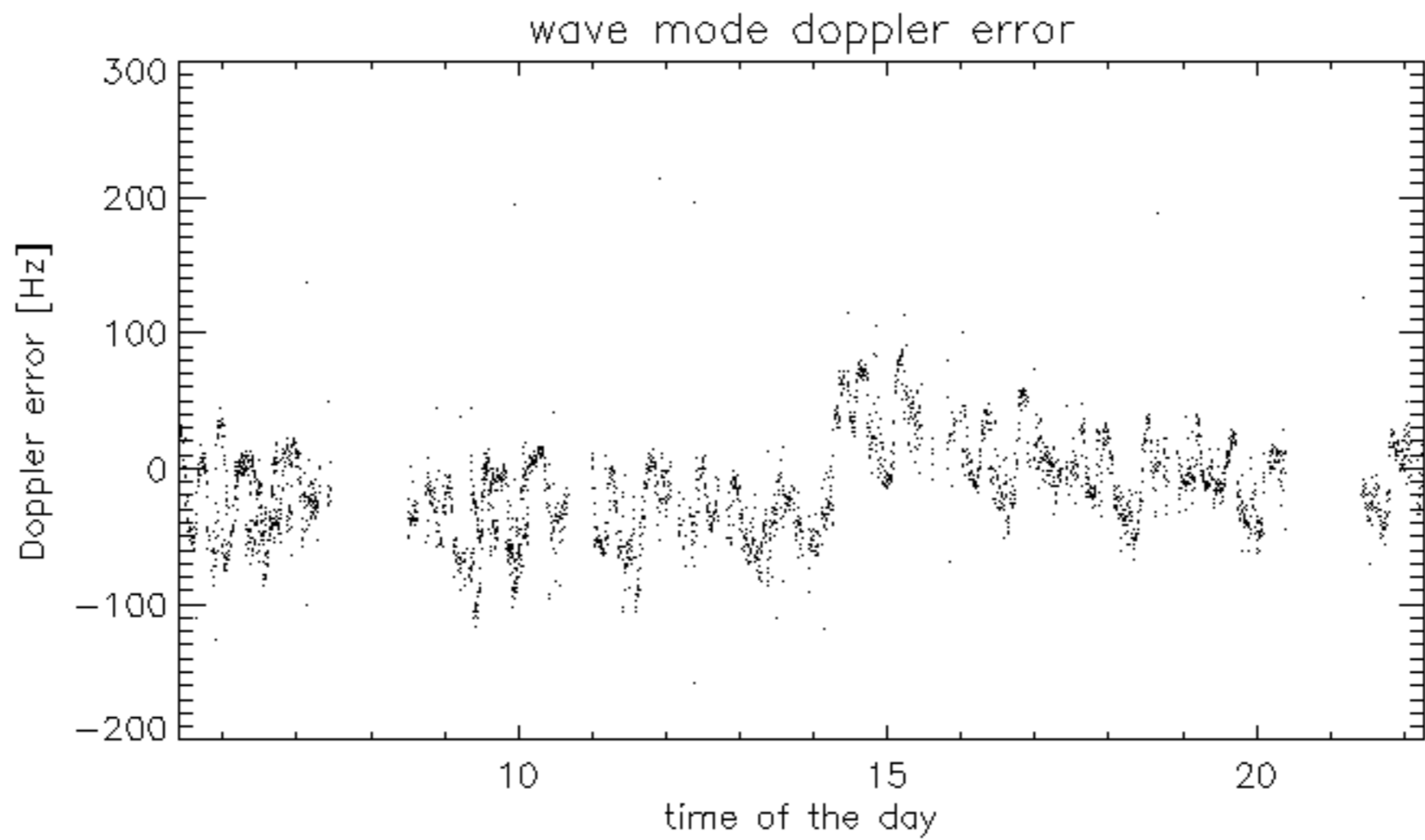
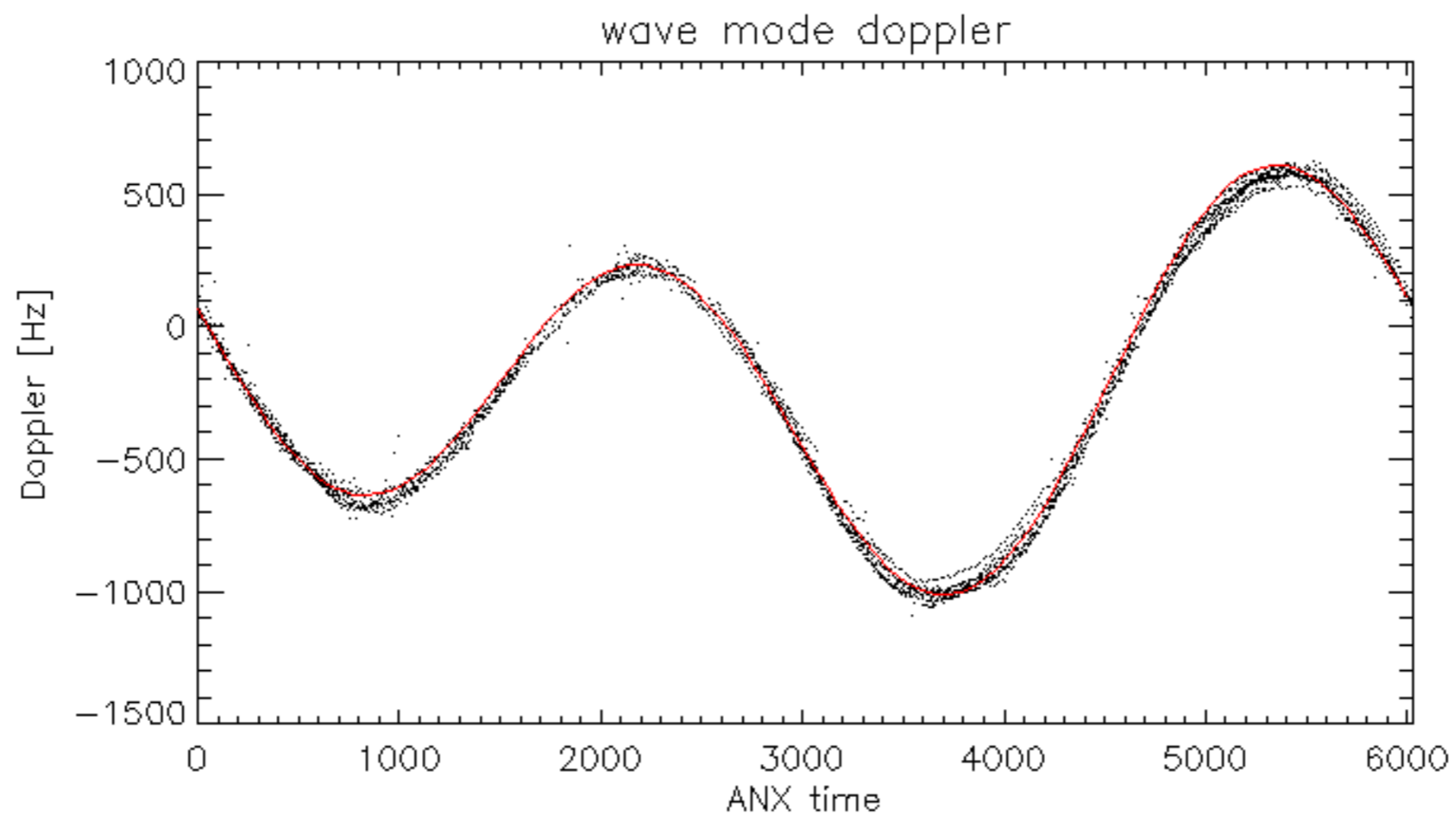
Doppler 'WVS' 'IS2' 'H/H'



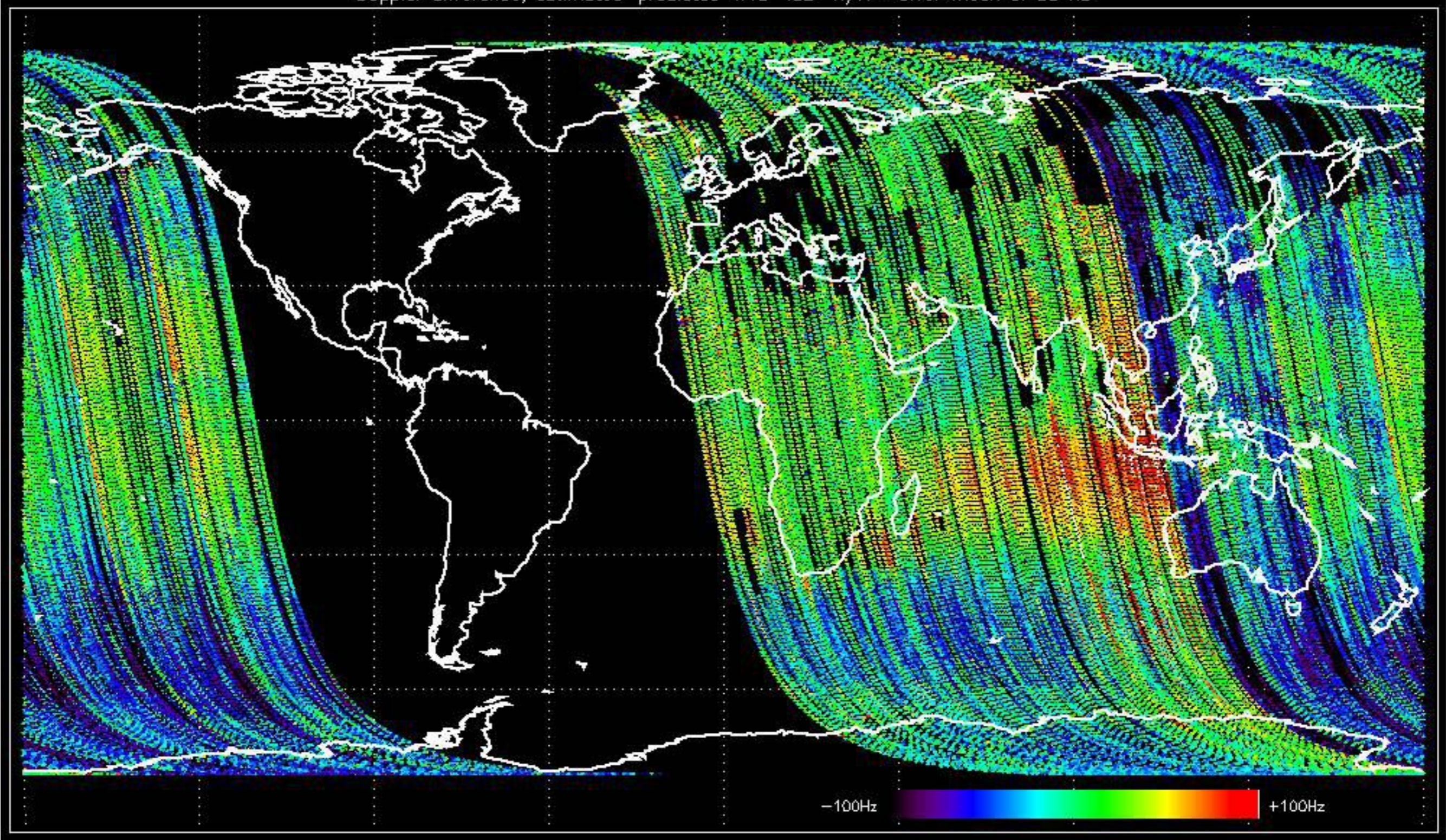
Doppler 'WVS' 'ISZ' 'V/V'



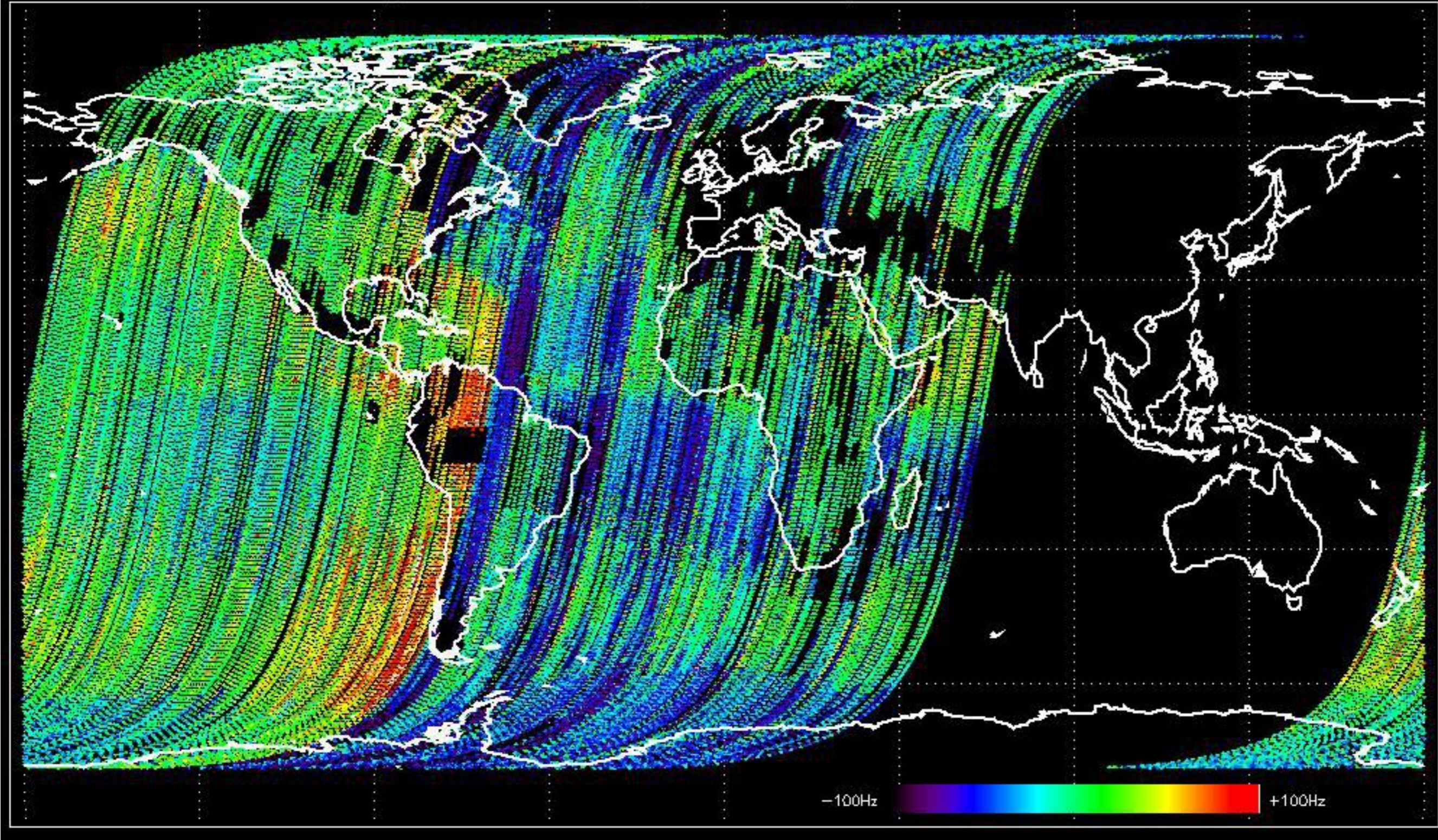
-1000Hz +1000Hz



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

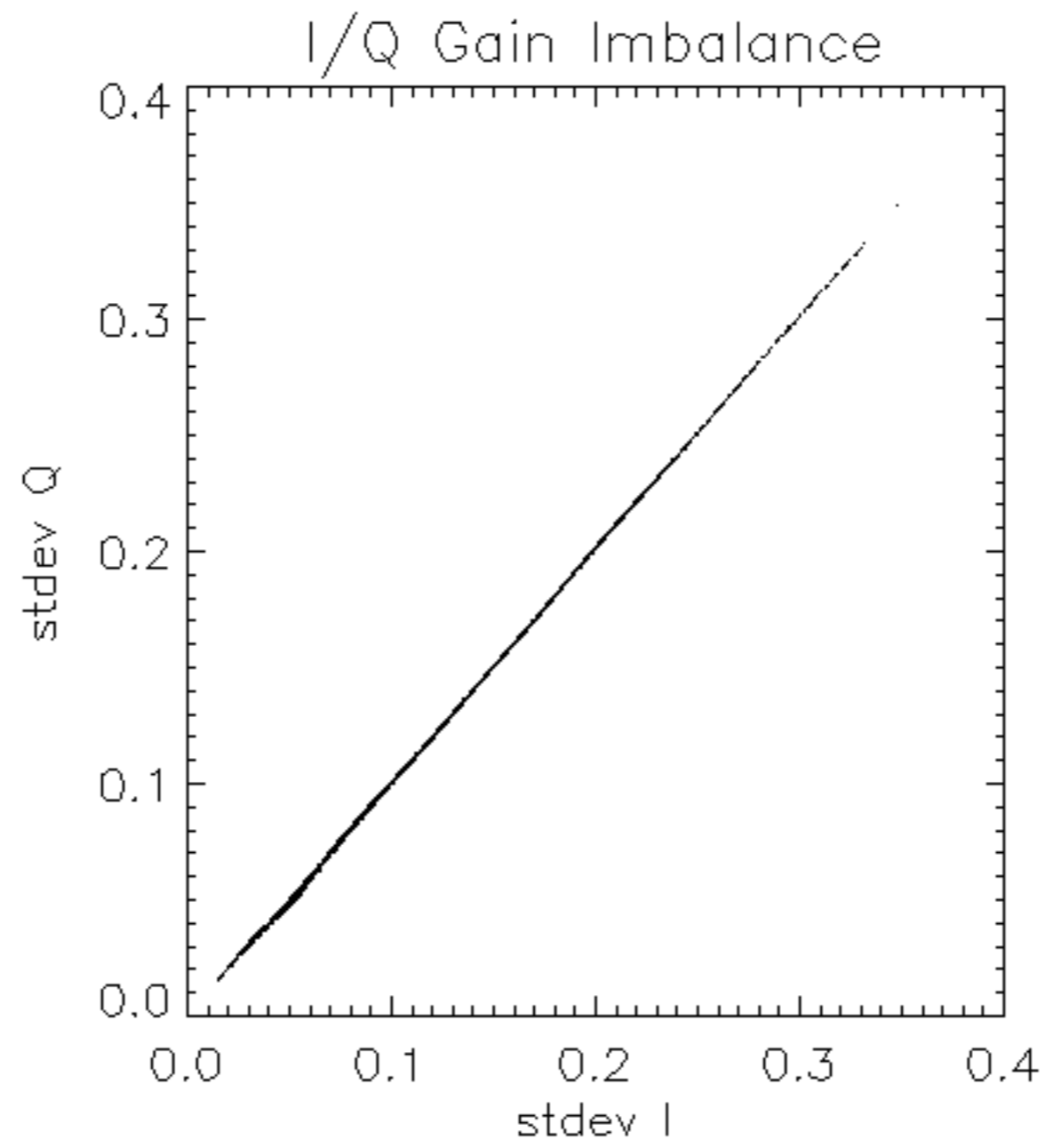


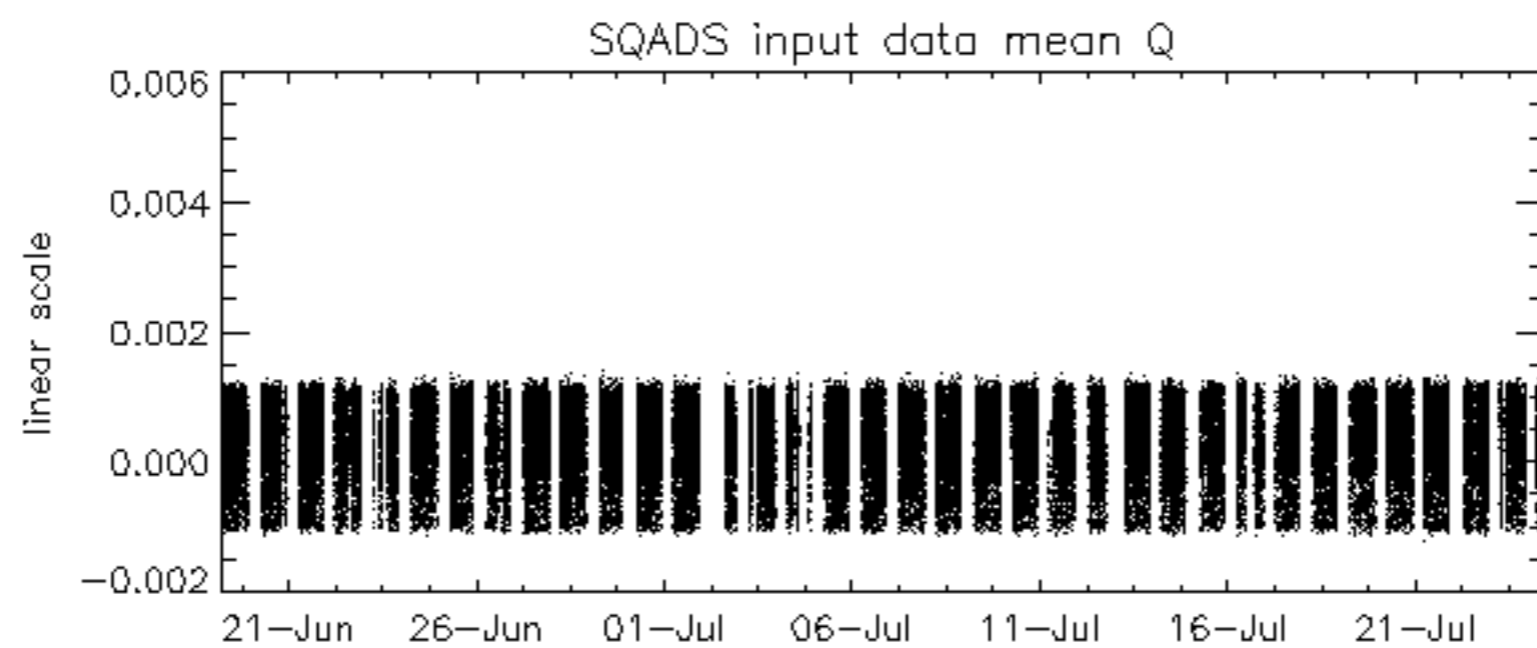
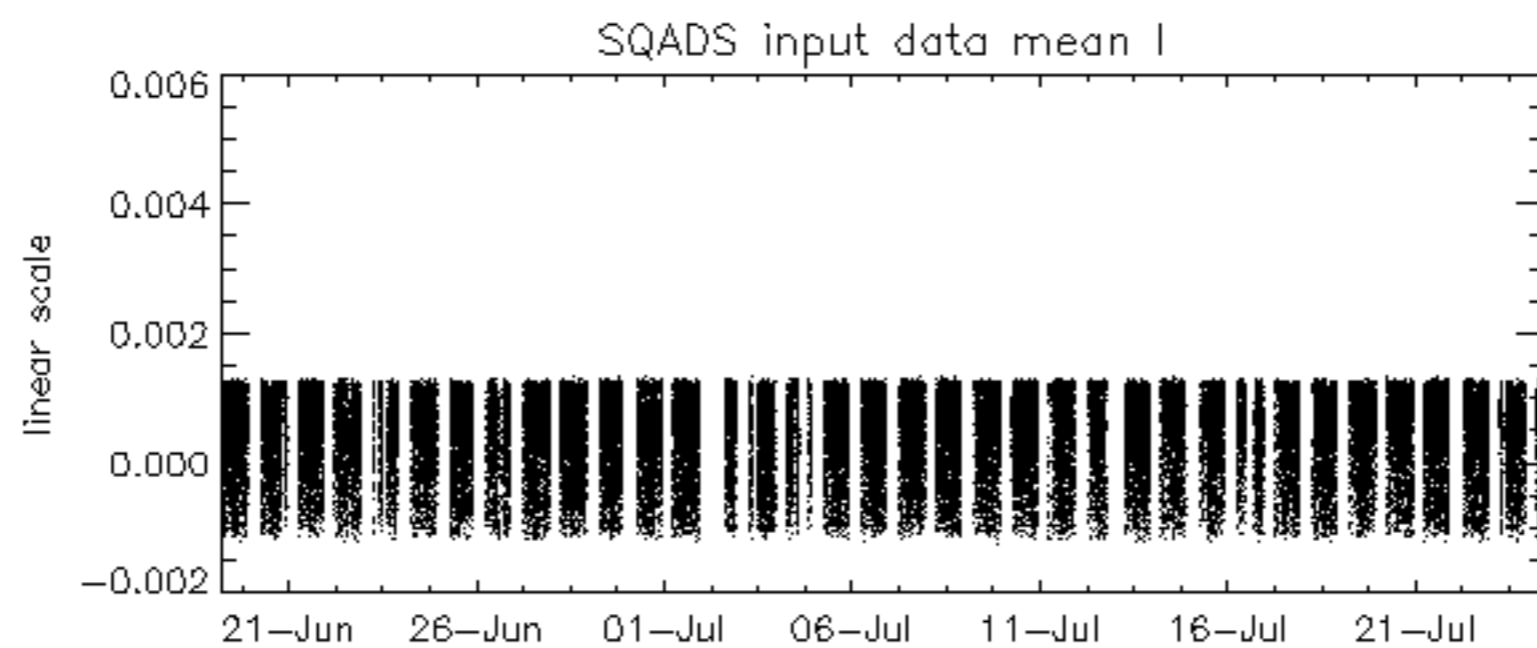
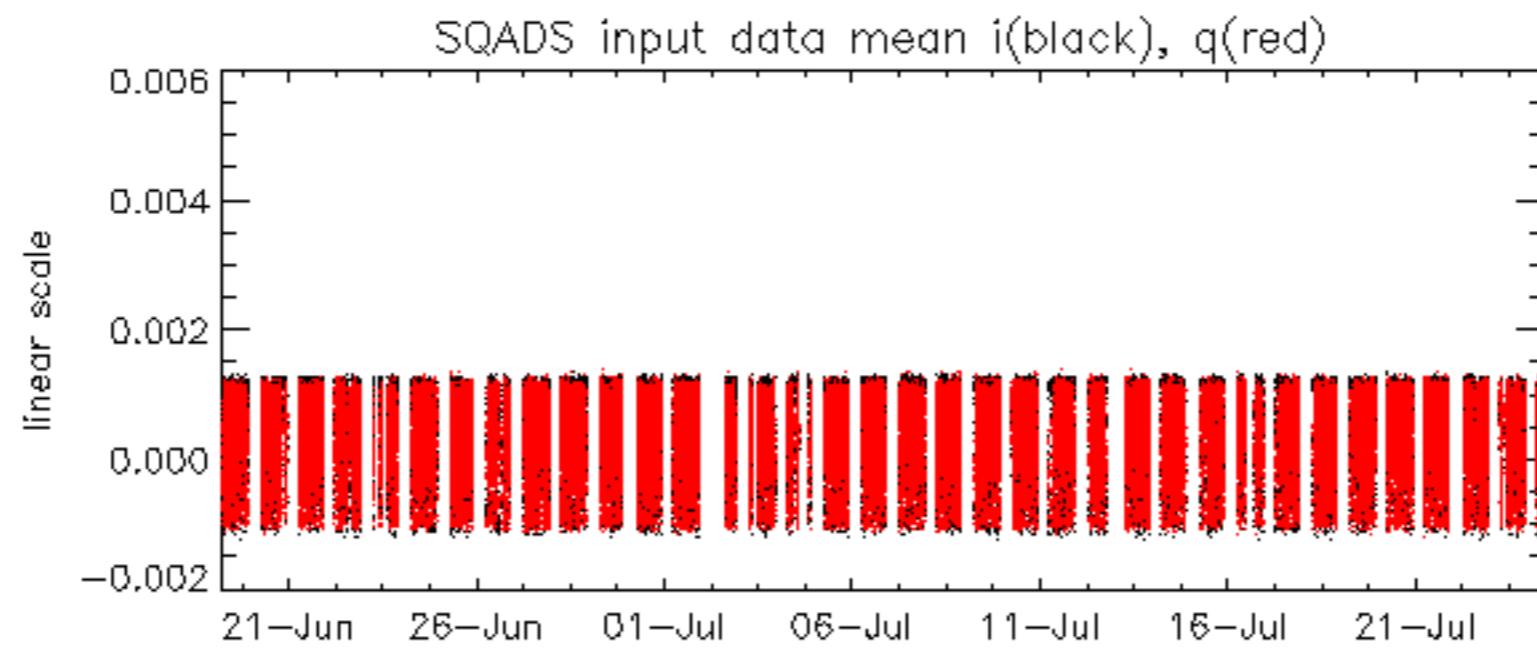
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of 53 Hz

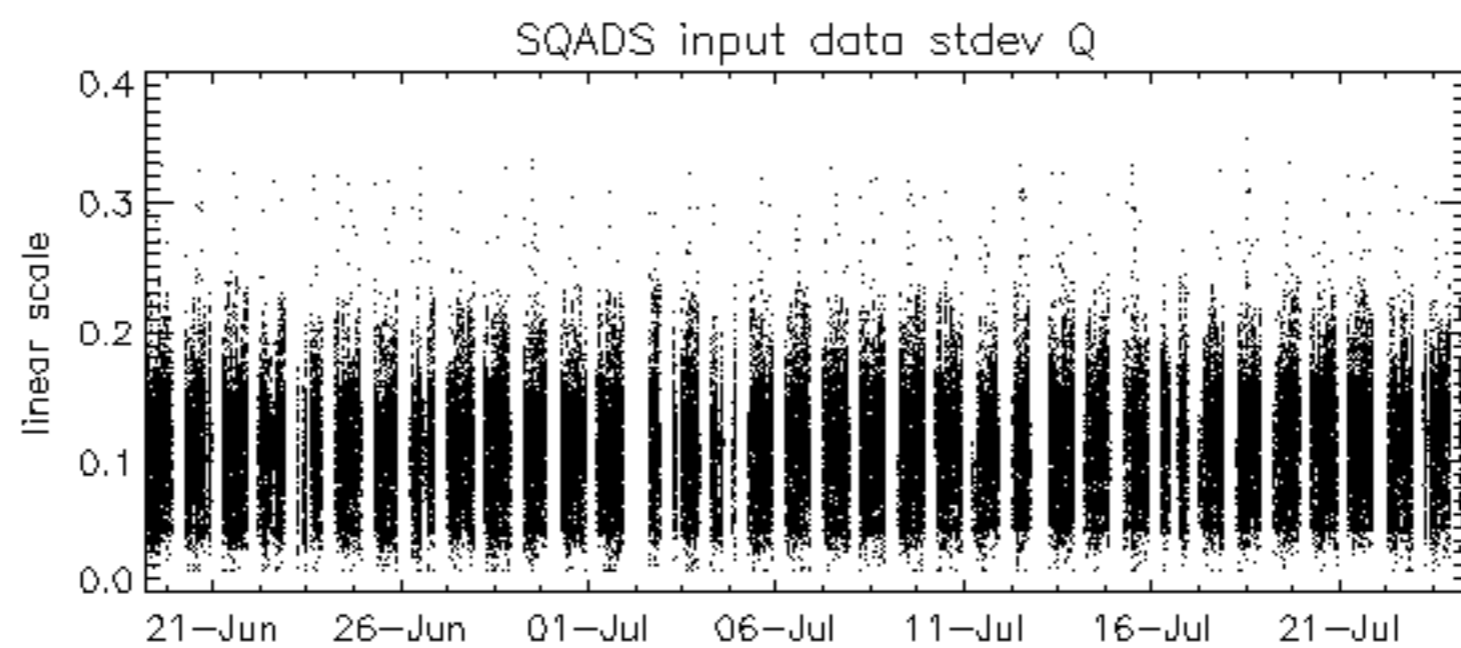
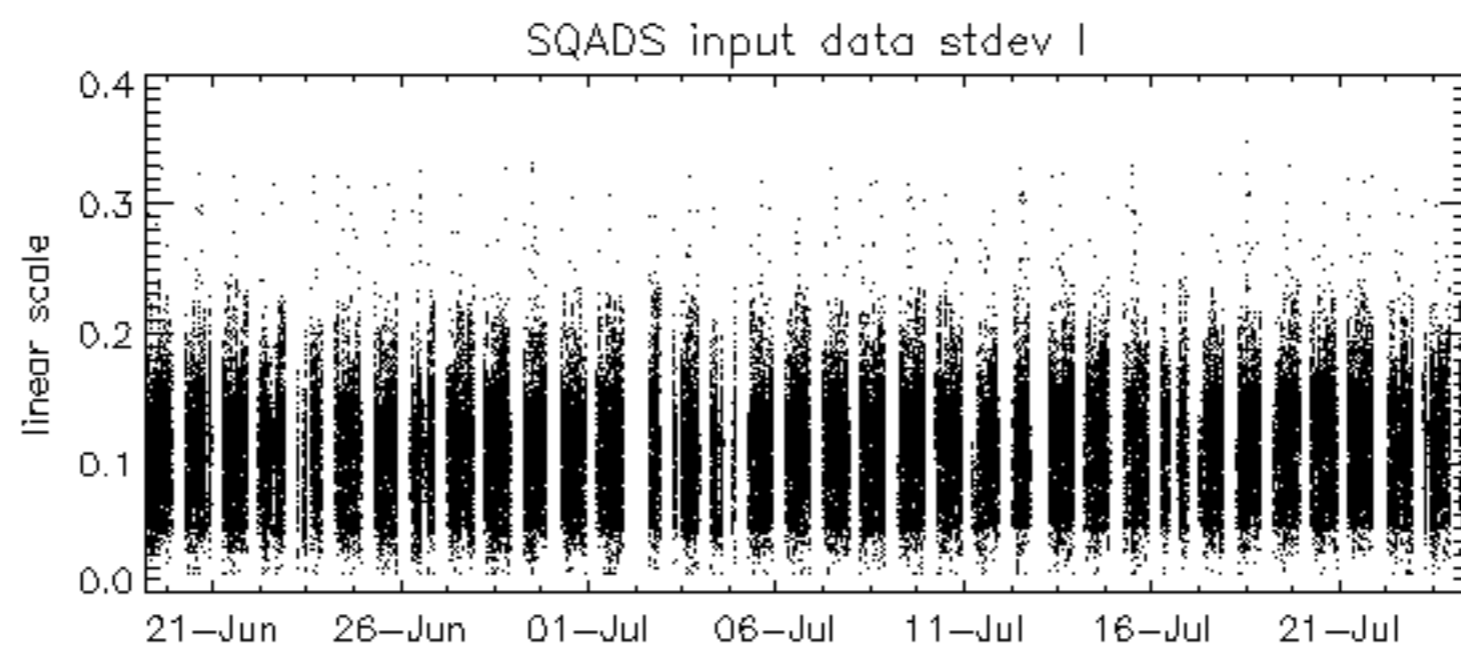
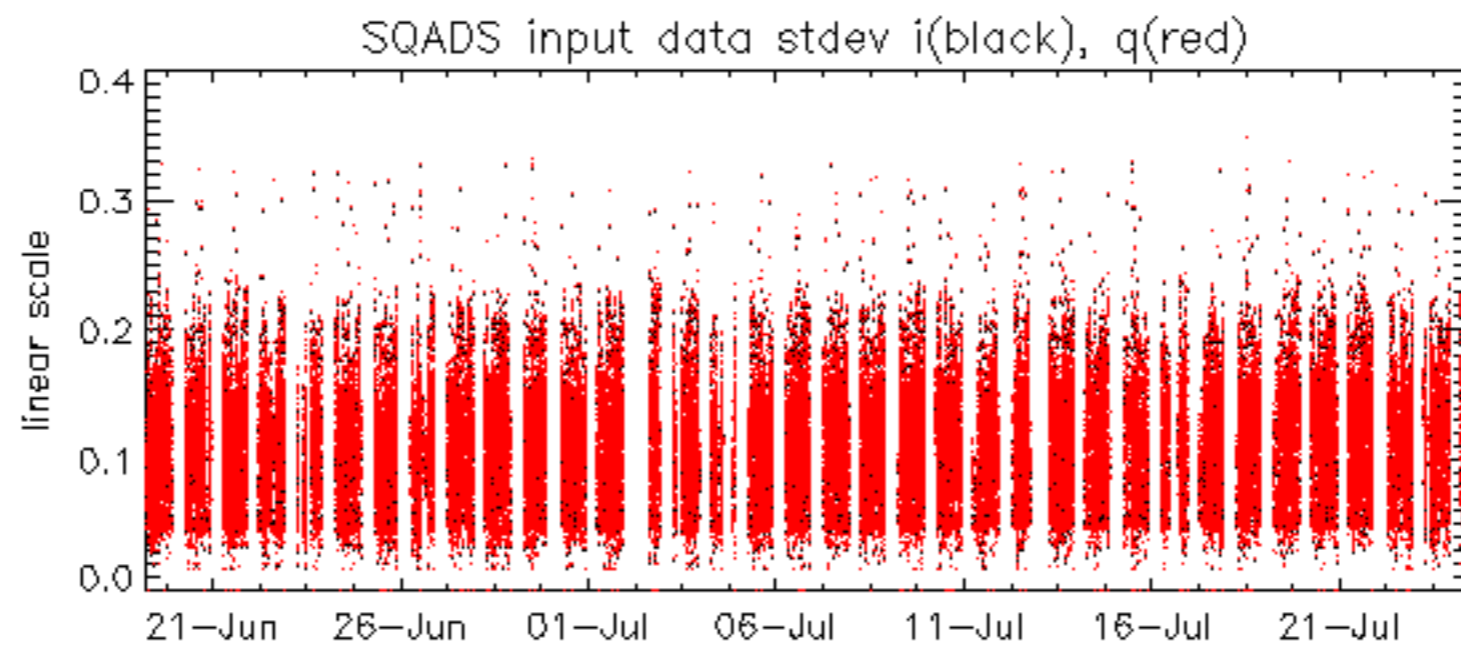


No anomalies observed.

No anomalies observed.







No unavailabilities during the reported period