

REPORT OF 040113

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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 unavailability during the reported period.

2.2 - Browse Visual Inspection

No anomalies observed on available browse products.

2.3 - Data Analysis

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:

- ASA_MS__0PNPDK20040112_191813_000000152023_00199_09772_0136.N1

- ASA_MS__0PNPDK20040112_191933_000000152023_00199_09772_0137.N1

Polarisation	Start Time
V	20040112 191933
H	20040112 191813

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 anomaly observed.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.69491	-22.5194	-8.15894
	stdev	0.00689680	0.0687974	0.00319363

24	mean	-5.08674	-21.1357	-8.15894
	stdev	0.0141796	0.0649172	0.00319363



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.74845	-22.5471	-8.15568
	stdev	0.0880956	0.0696258	0.00404702
24	mean	-5.21658	-21.1746	-8.15568
	stdev	0.571797	0.0627418	0.00404702



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	0.000431847
	stdev	3.02056e-07
MEAN Q	mean	0.000301958
	stdev	3.66701e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115579
	stdev	0.00139930

STDEV Q	mean	0.115823
	stdev	0.00141387



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

No anomaly observed in Doppler evolution.
Doppler analysis performed over the last 35 days.

6.1 - Unbiased Doppler Error

Evolution of unbiased Doppler error (Real - Expected)

Ascending
Descending

6.2 - Absolute Doppler

Evolution of Absolute Doppler

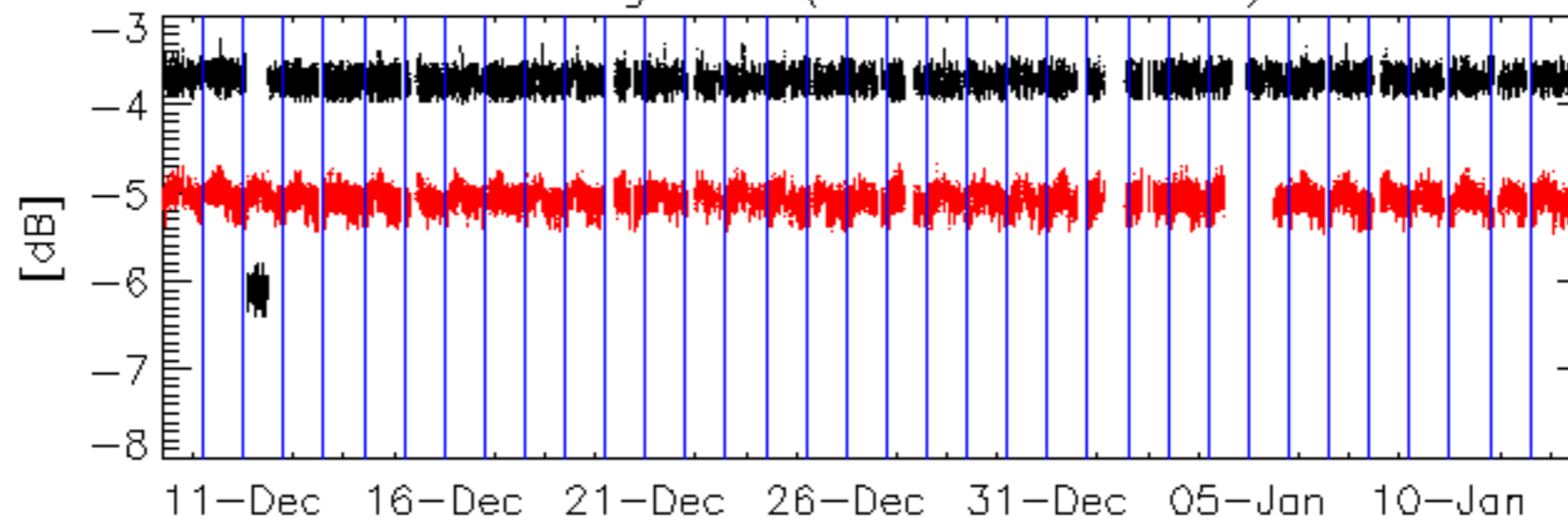
Ascending
Descending

6.3 - Doppler evolution versus ANX

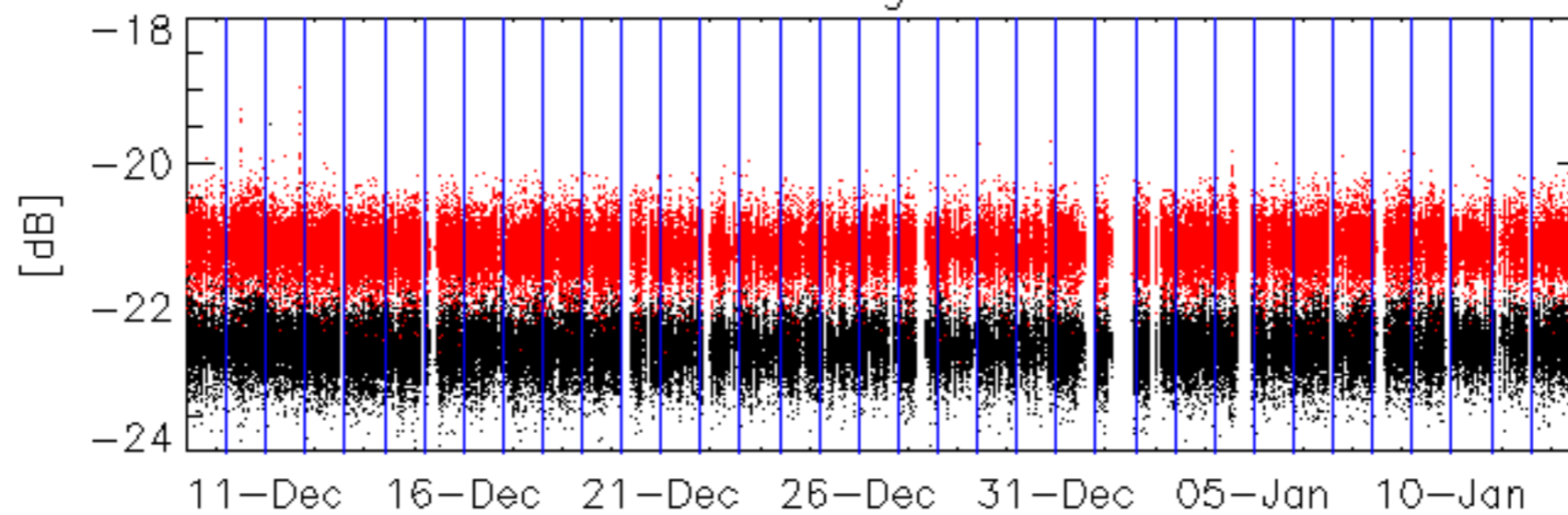
Evolution Doppler error versus ANX



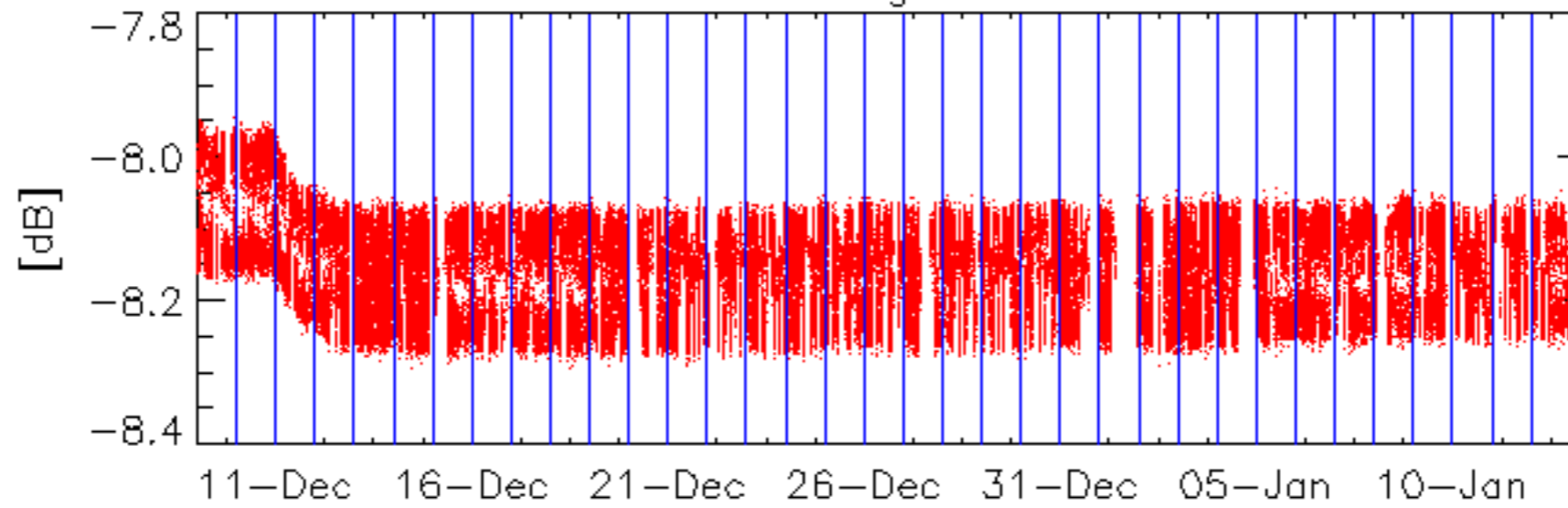
Average P1 (row 3 & row 24)



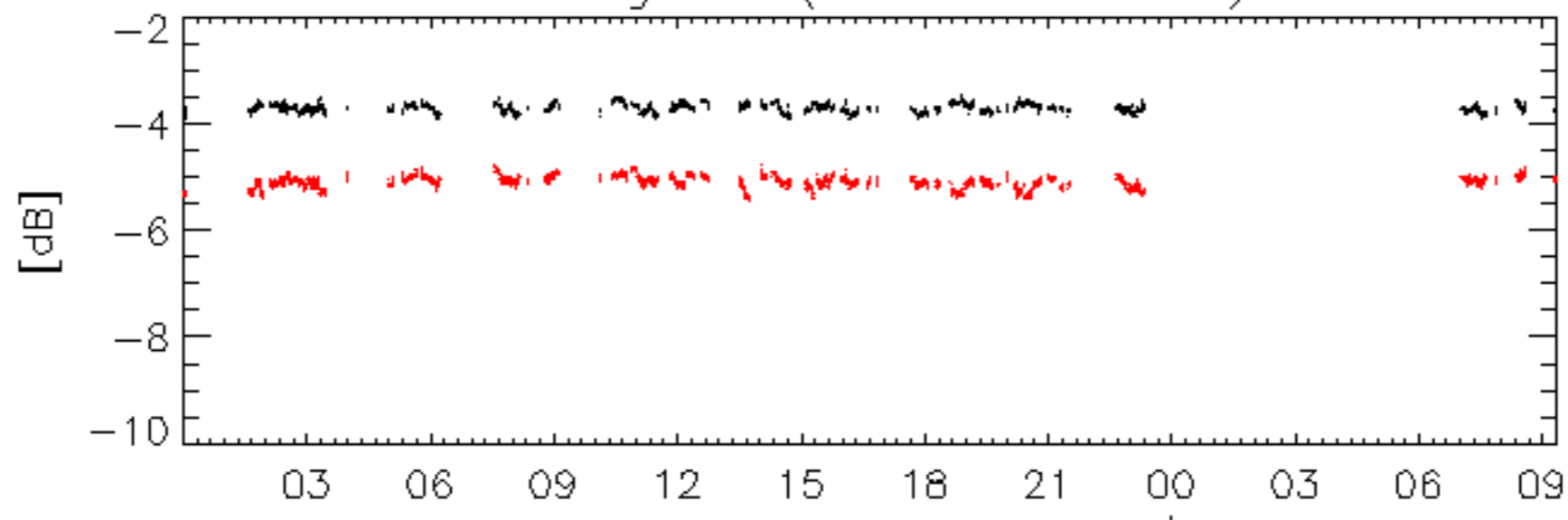
Average P2



Average P3

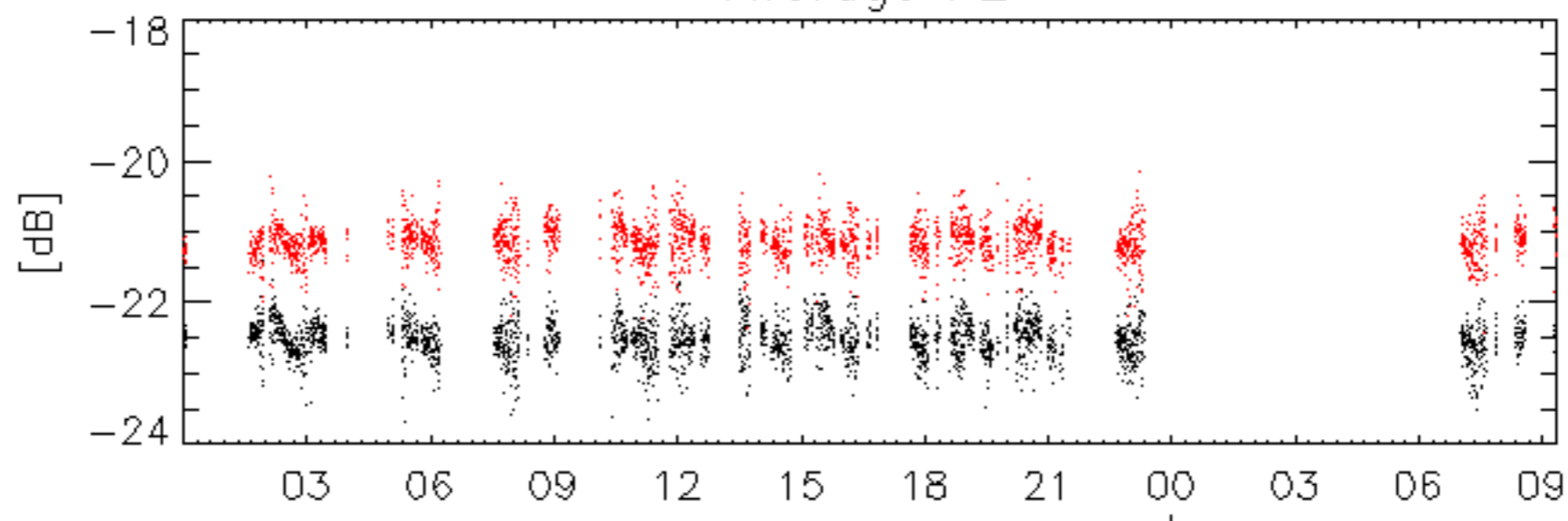


Average P1 (row 3 & row 24)



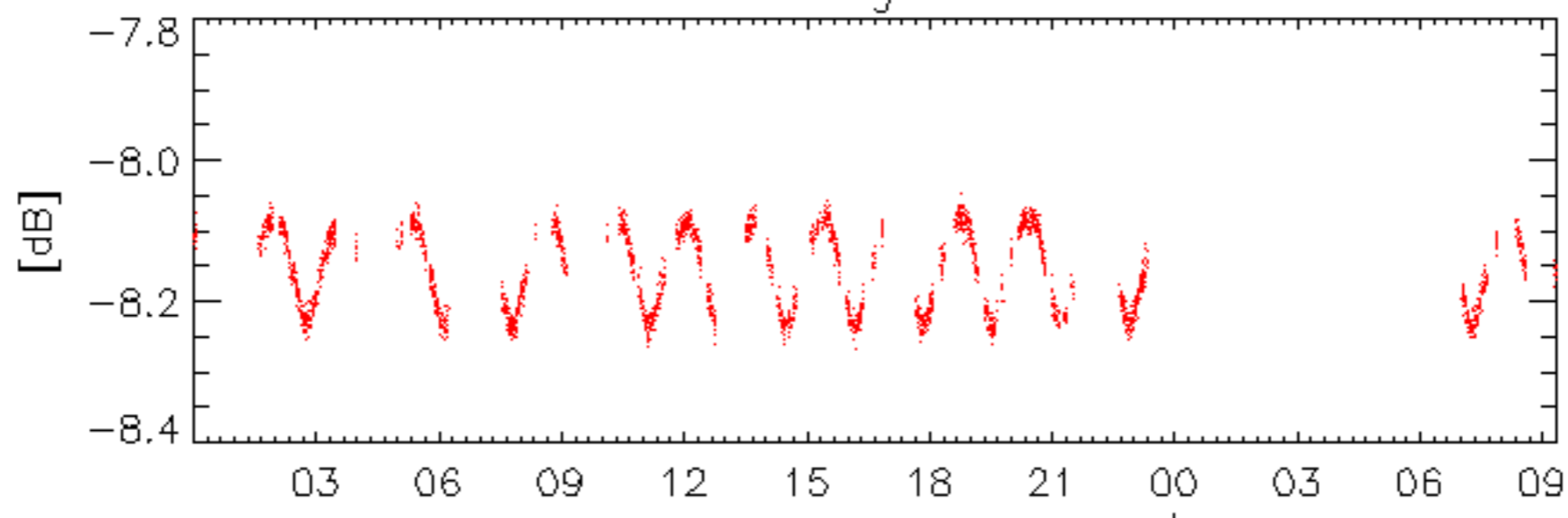
13-Jan

Average P2



13-Jan

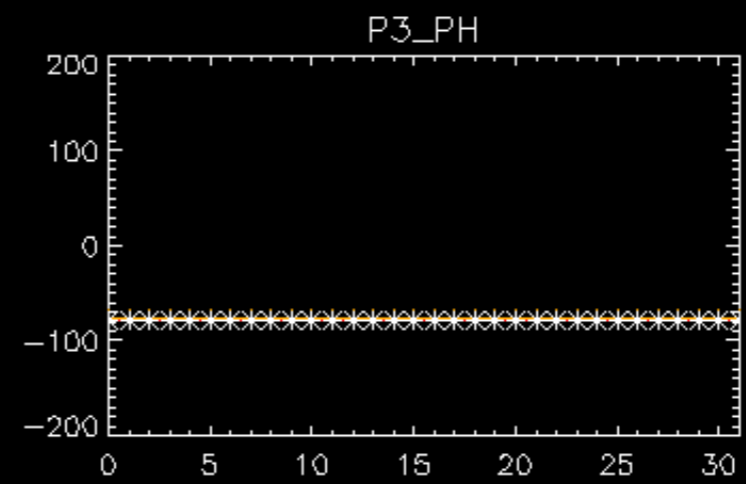
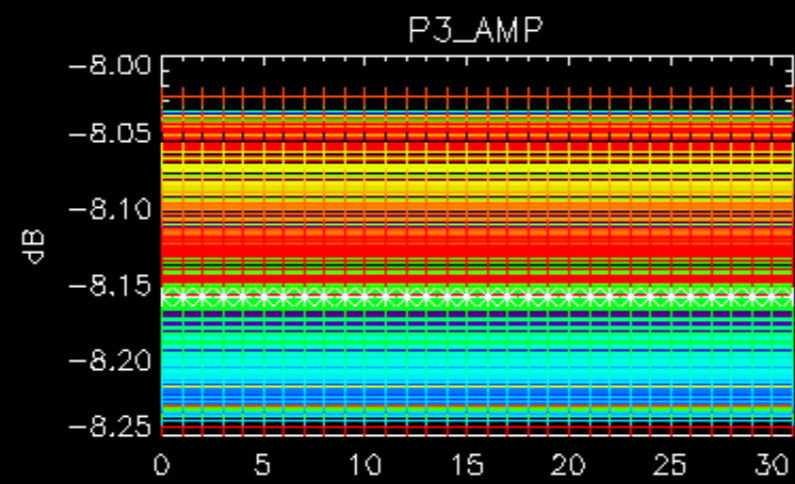
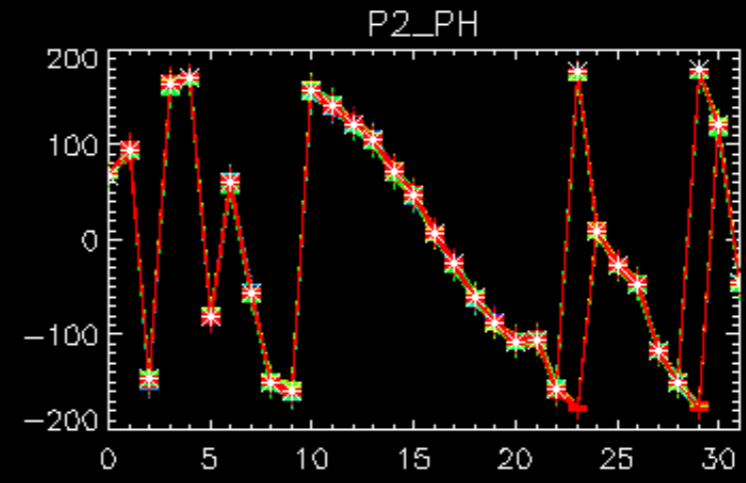
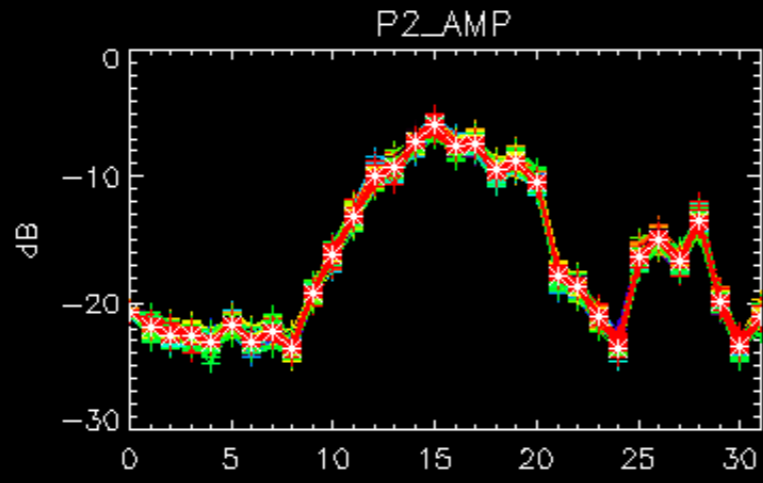
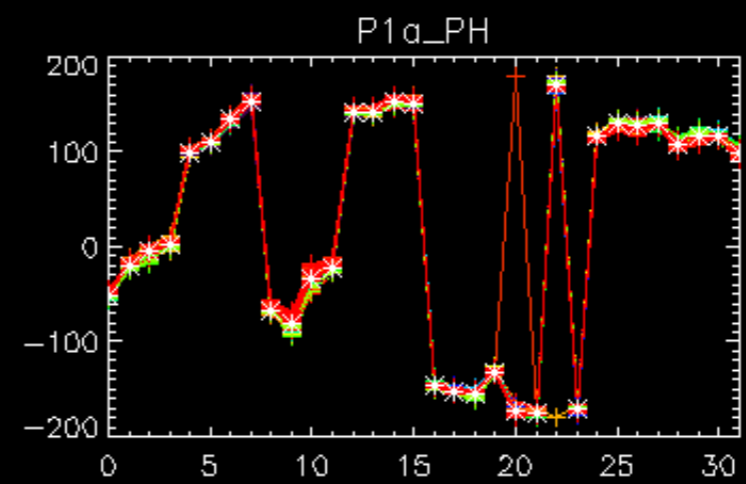
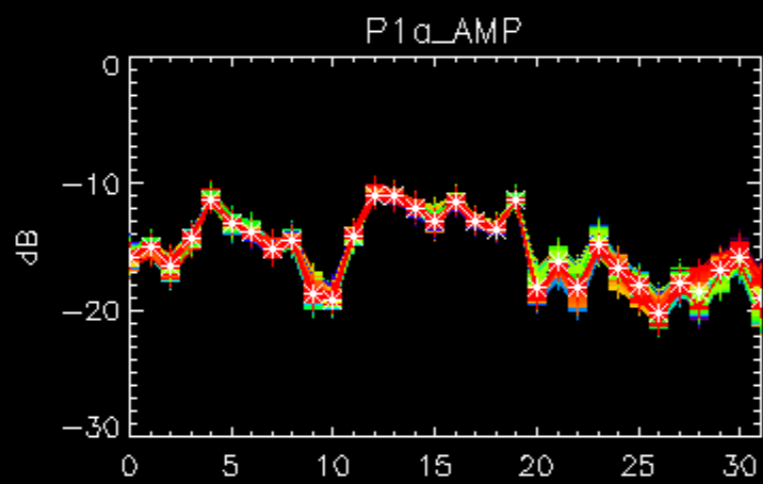
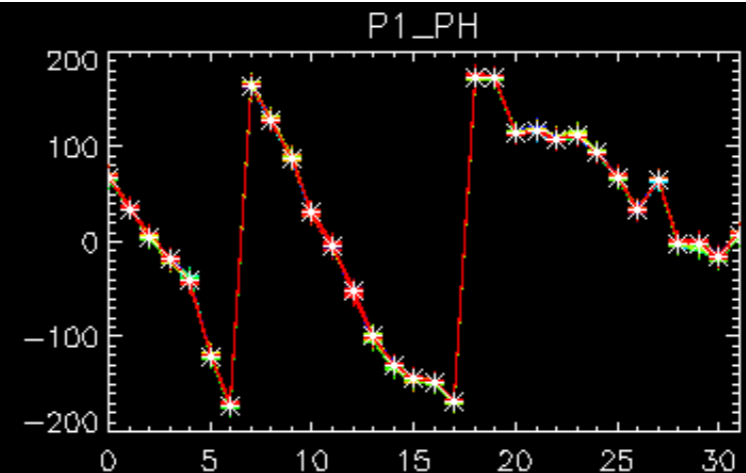
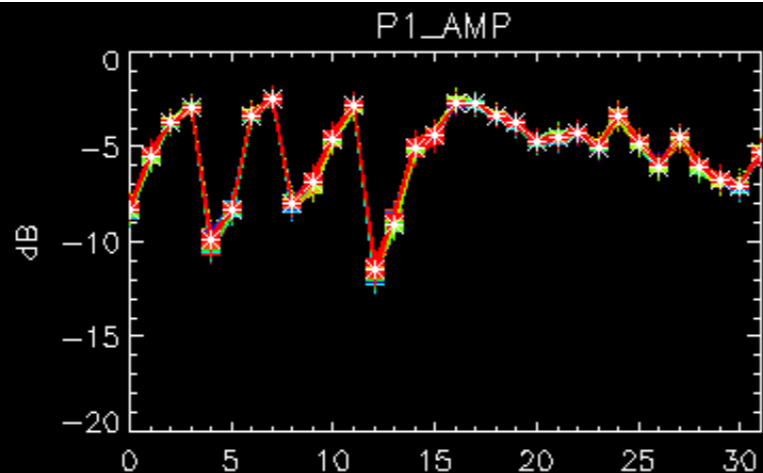
Average P3



13-Jan

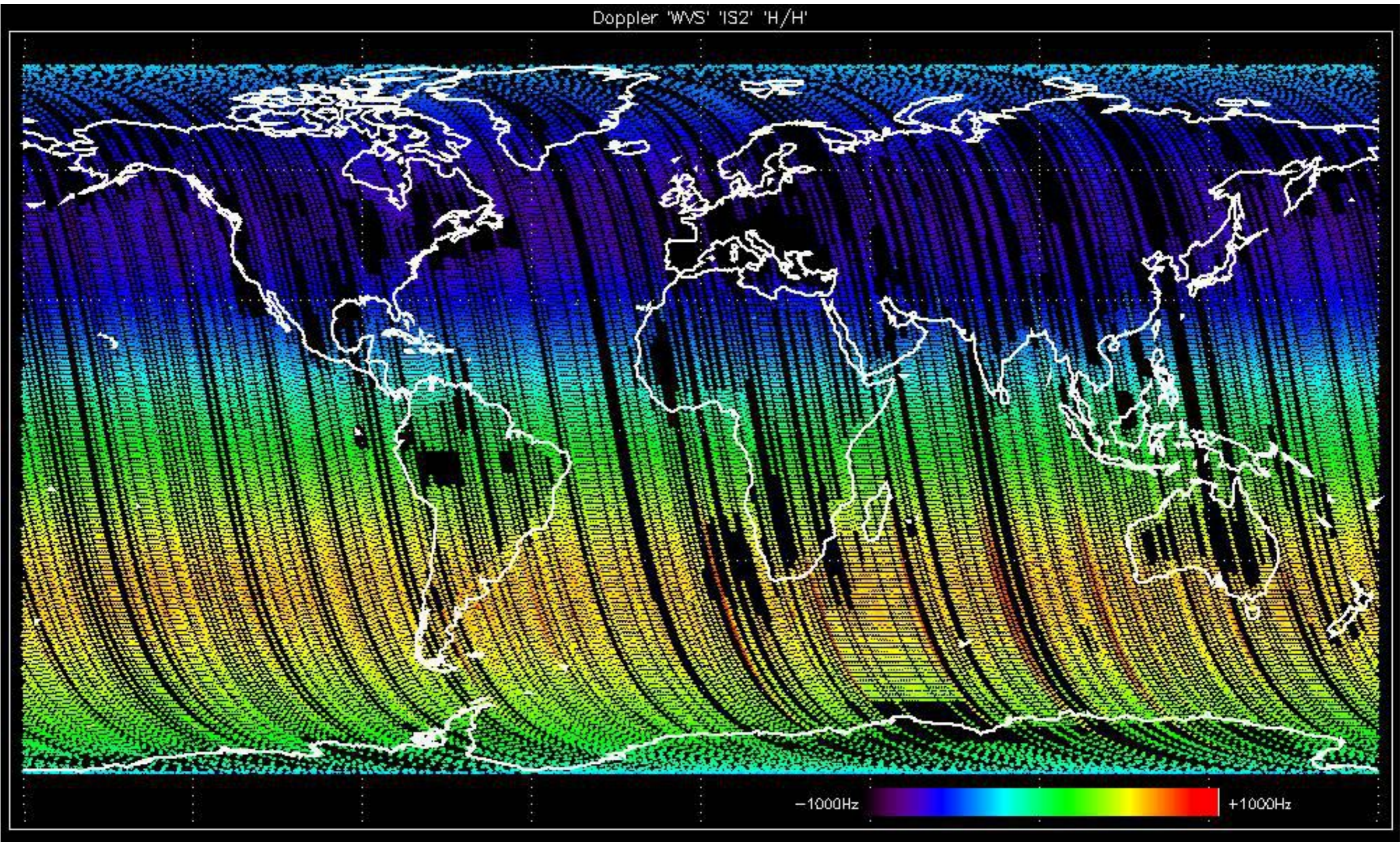
No anomalies observed on available browse products.

No anomaly observed.

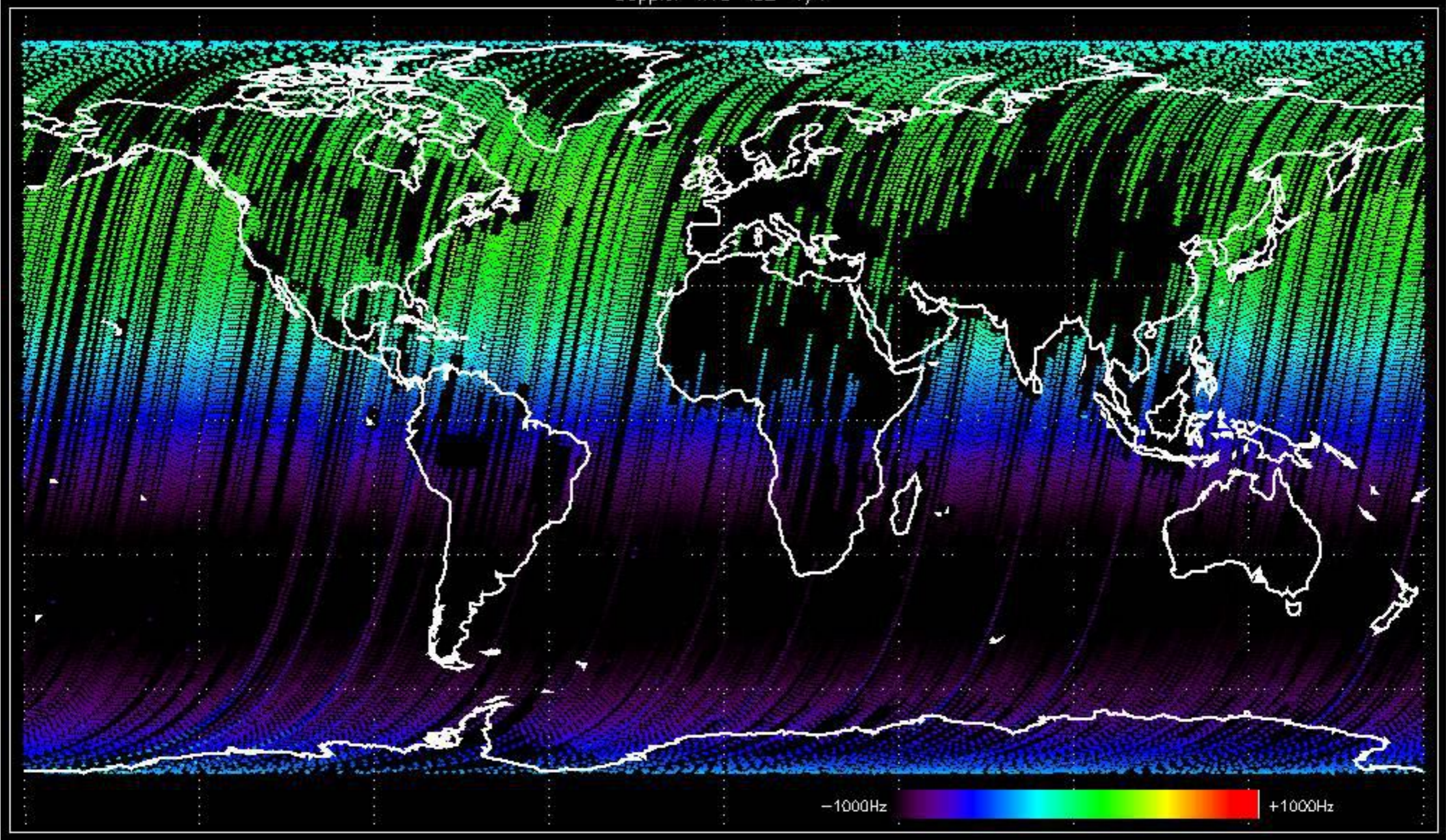


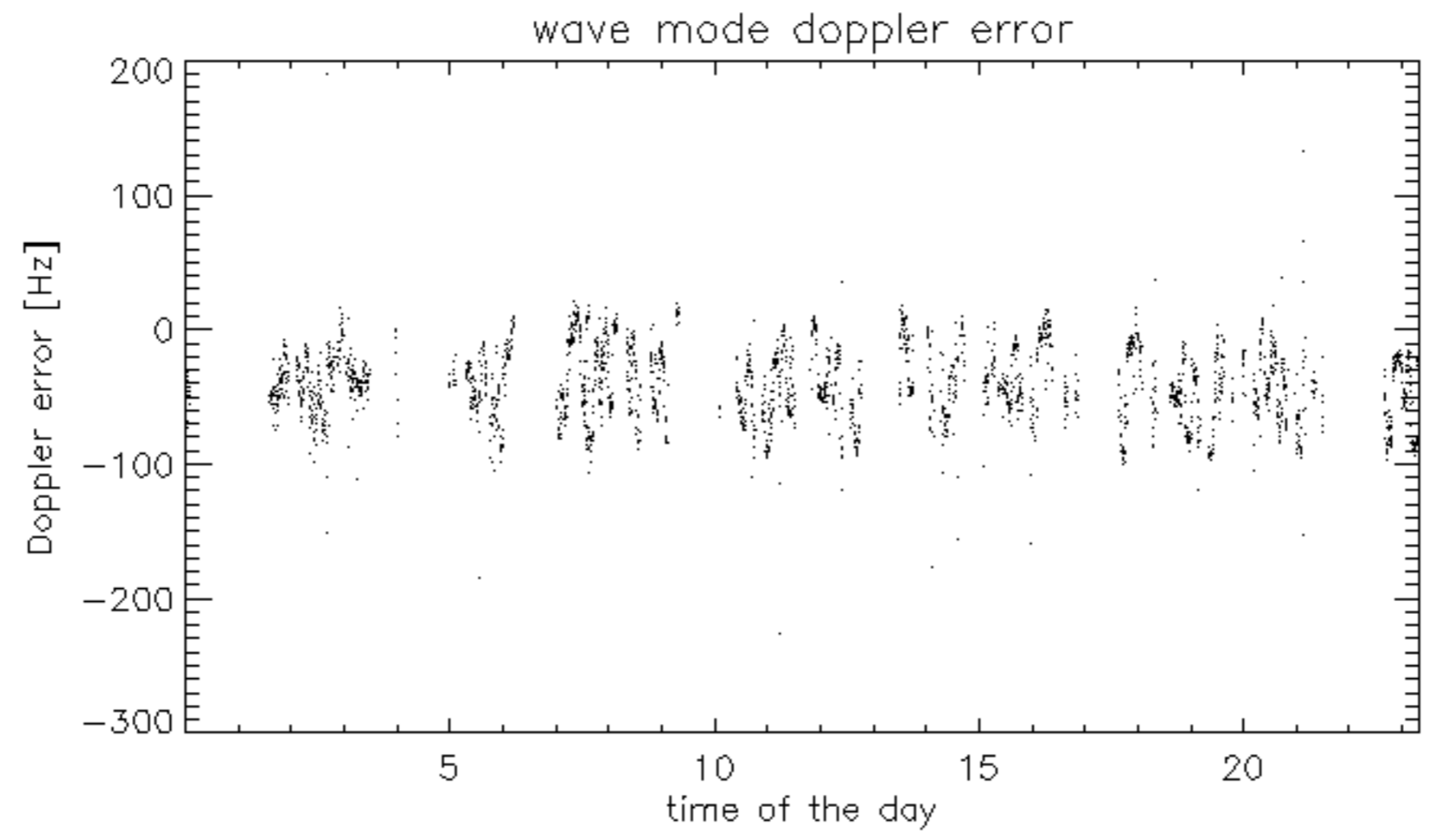
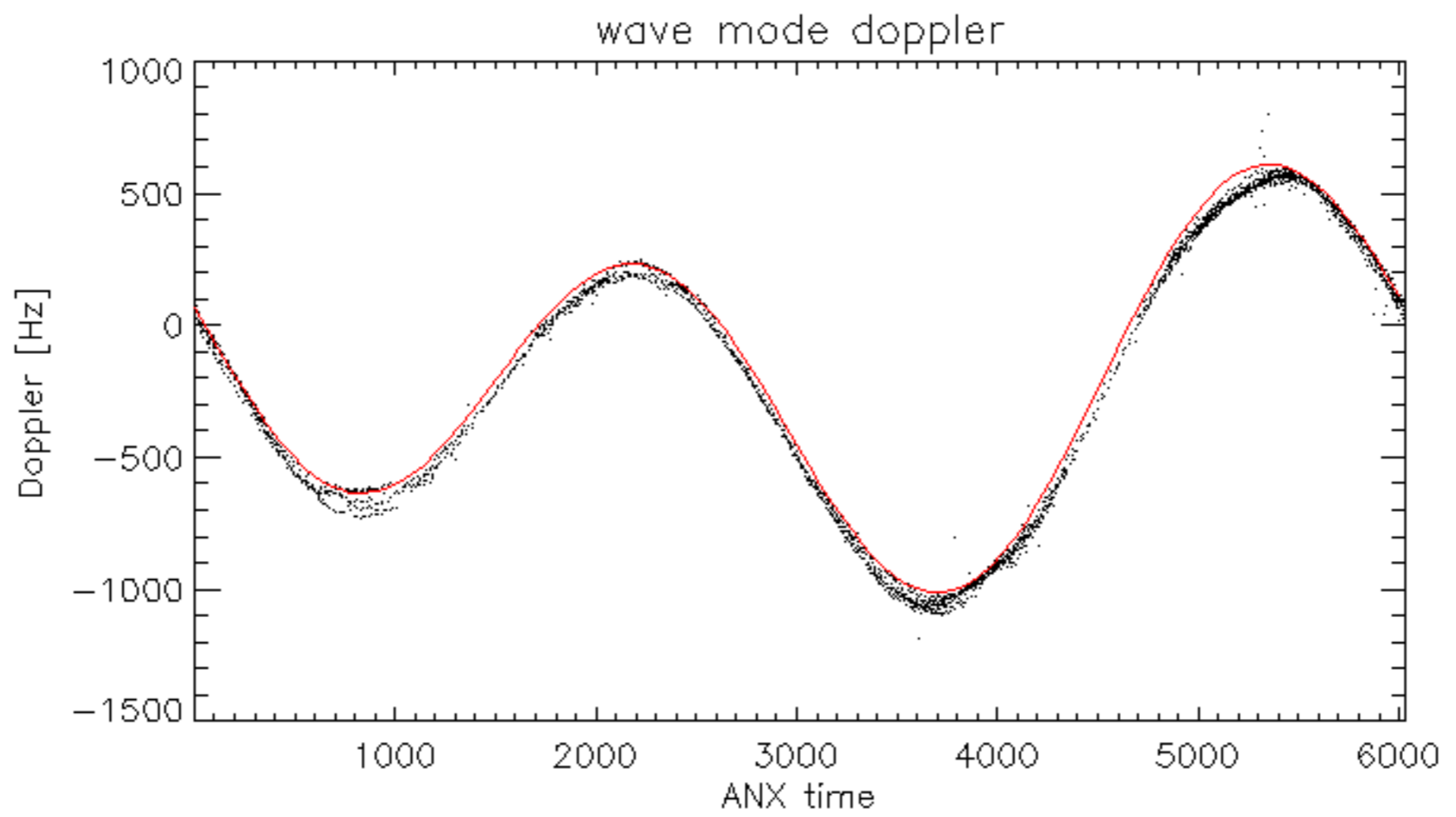
No anomaly observed in Doppler evolution.
Doppler analysis performed over the last 35 days.

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

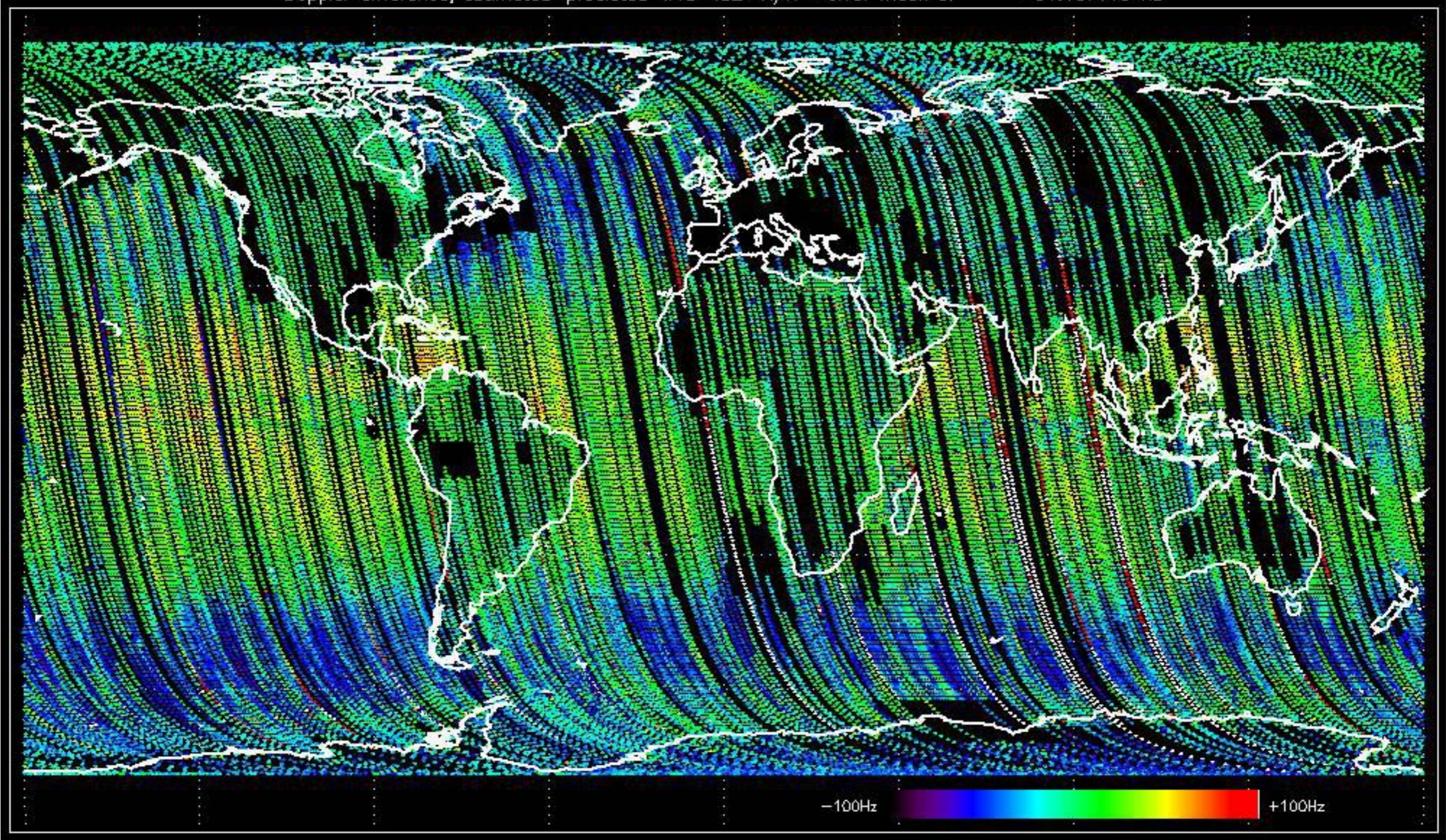


Doppler 'WVS' 'ISZ' 'V/V'

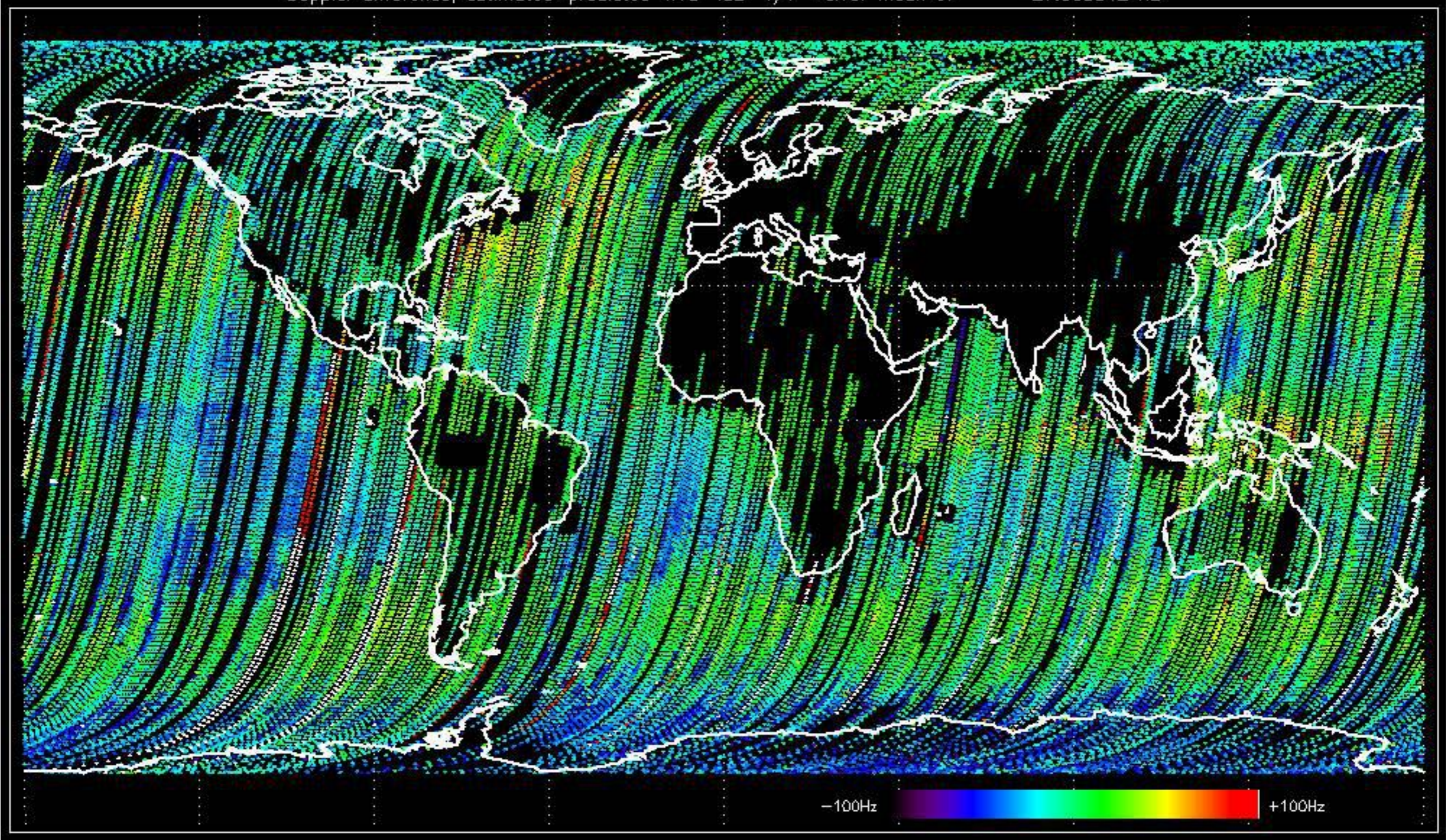




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -31.167110 Hz



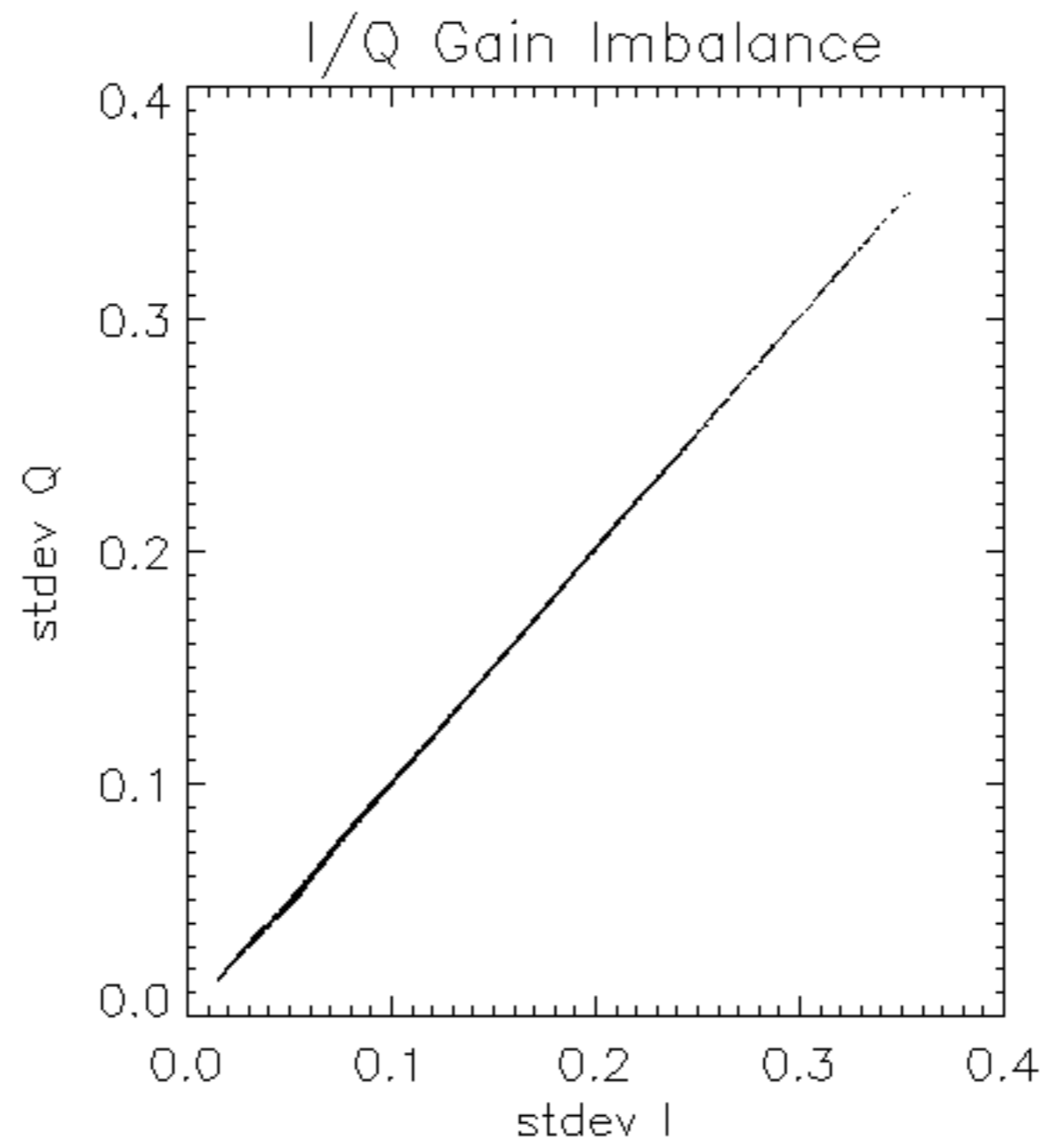
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -27.993342 Hz

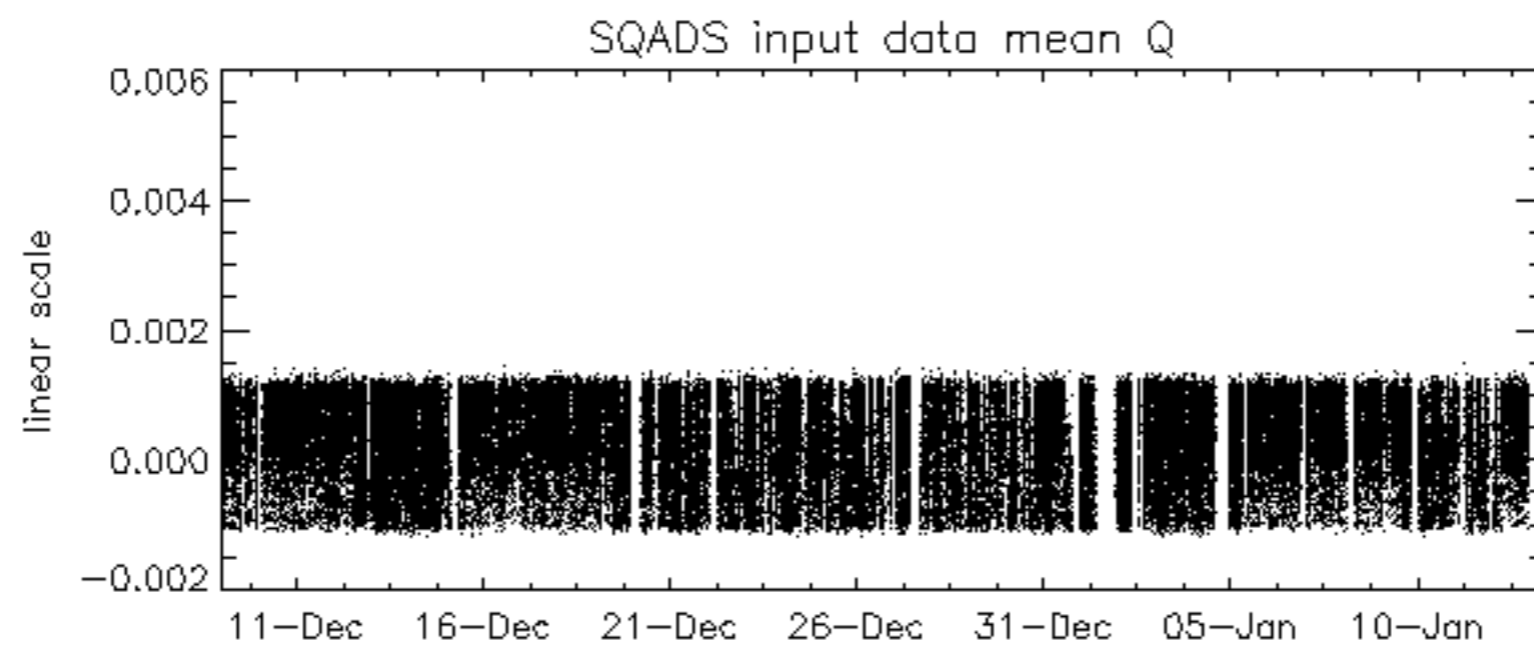
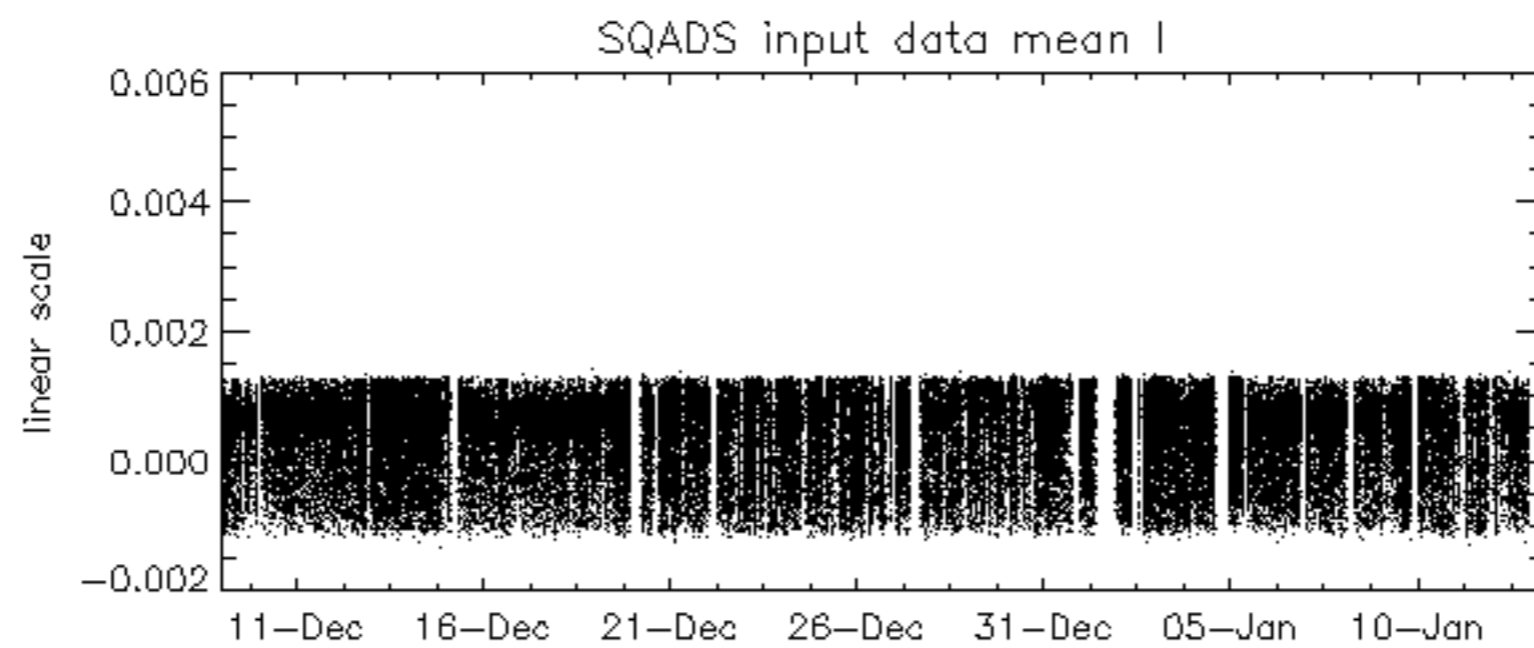
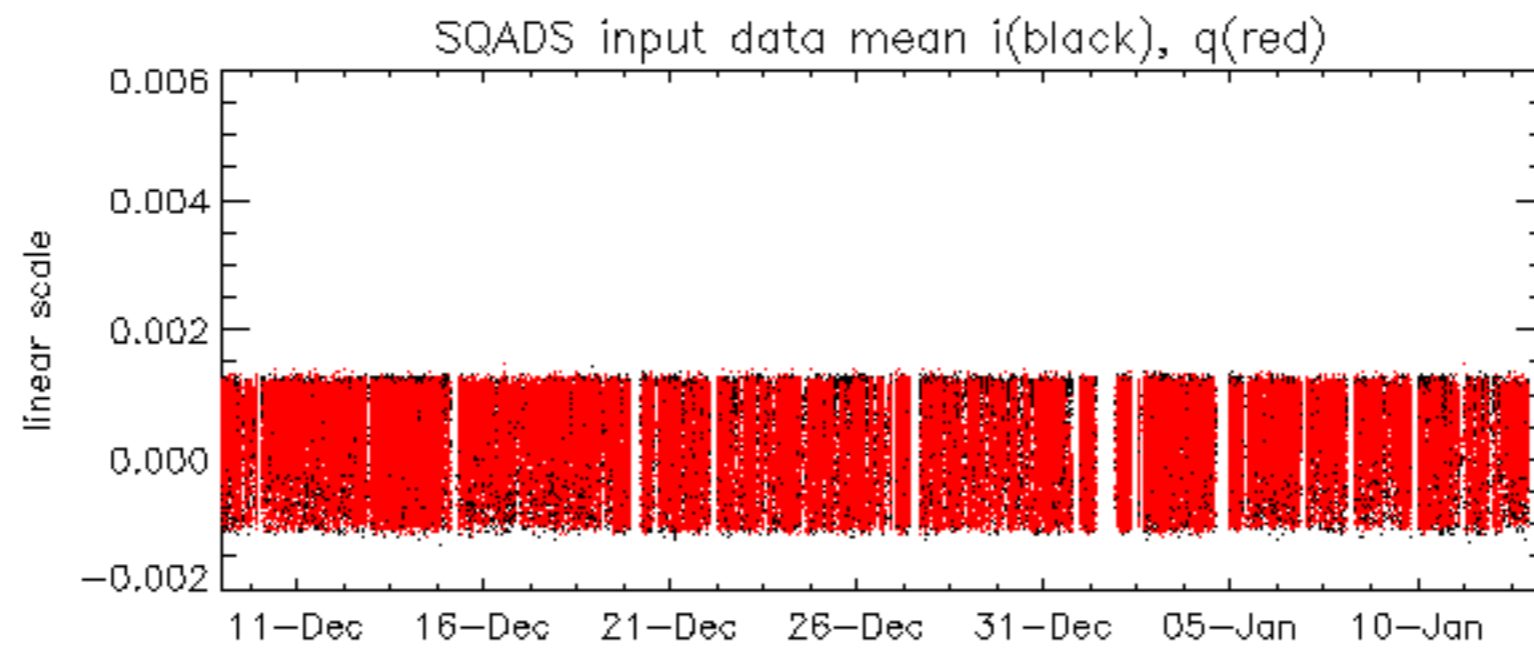


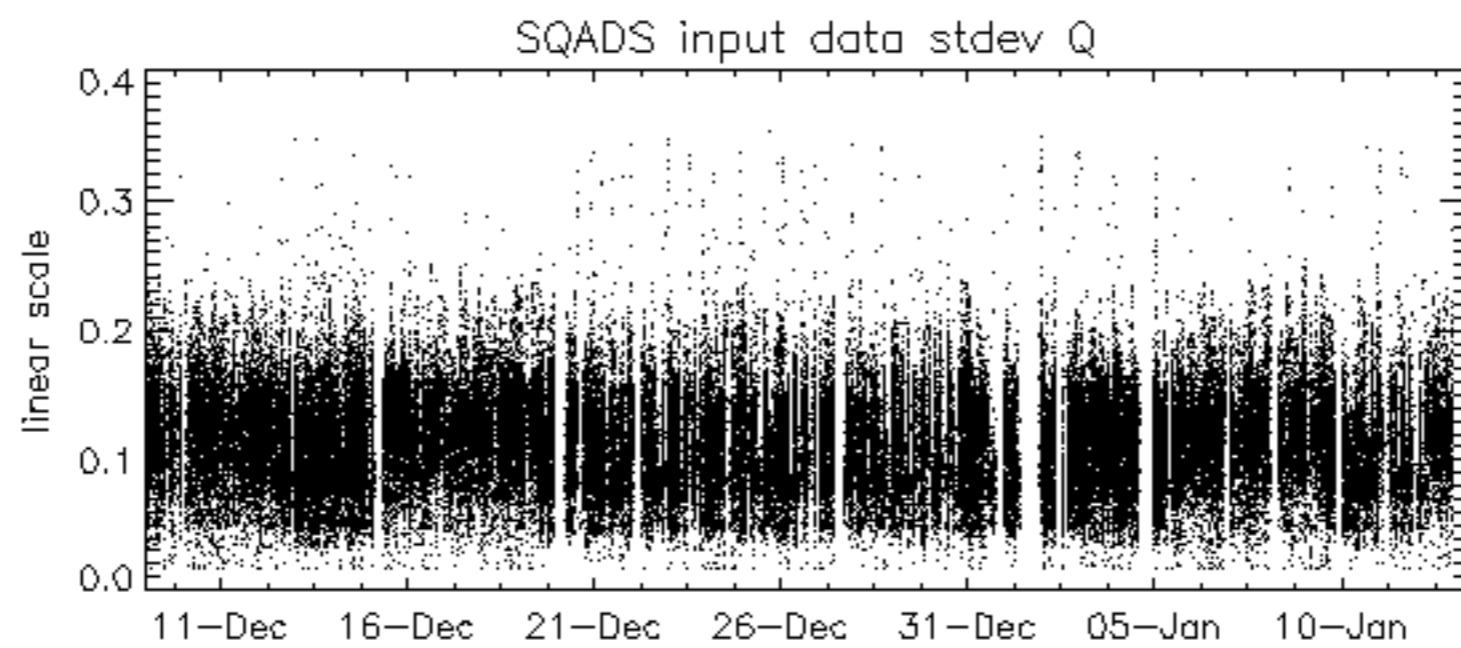
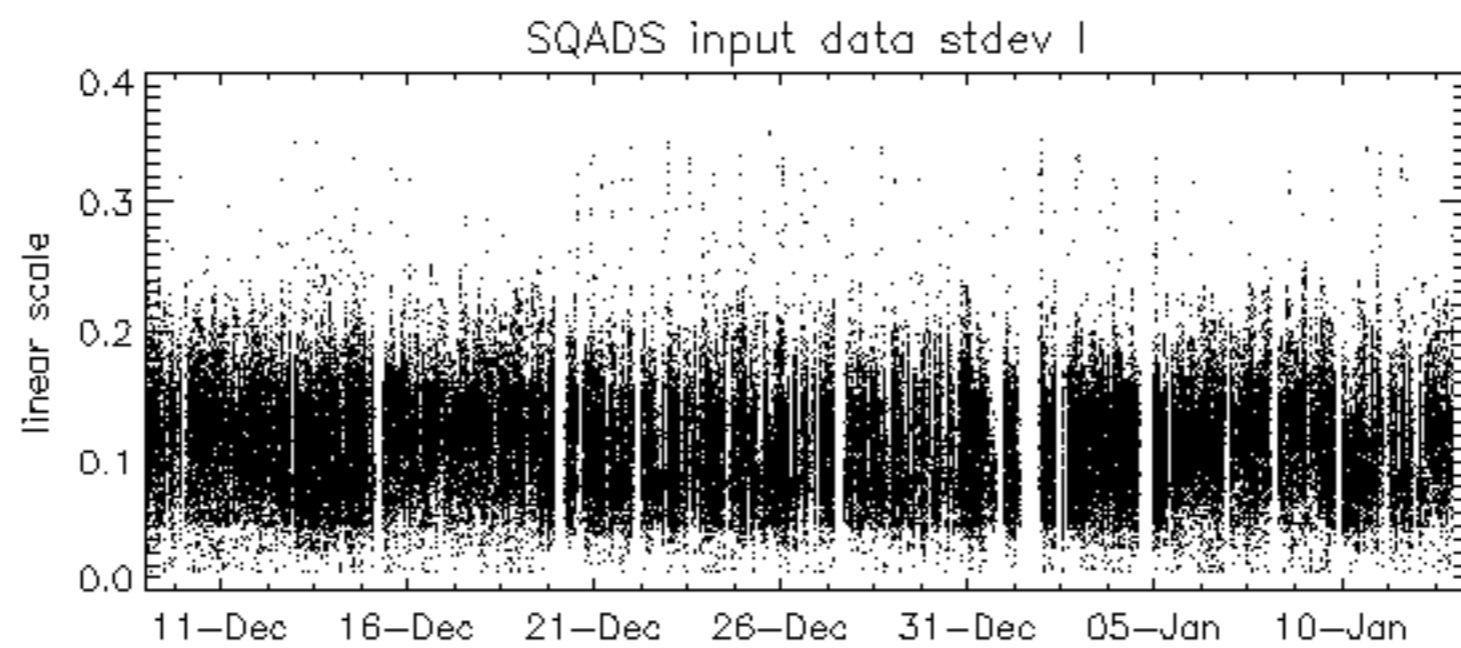
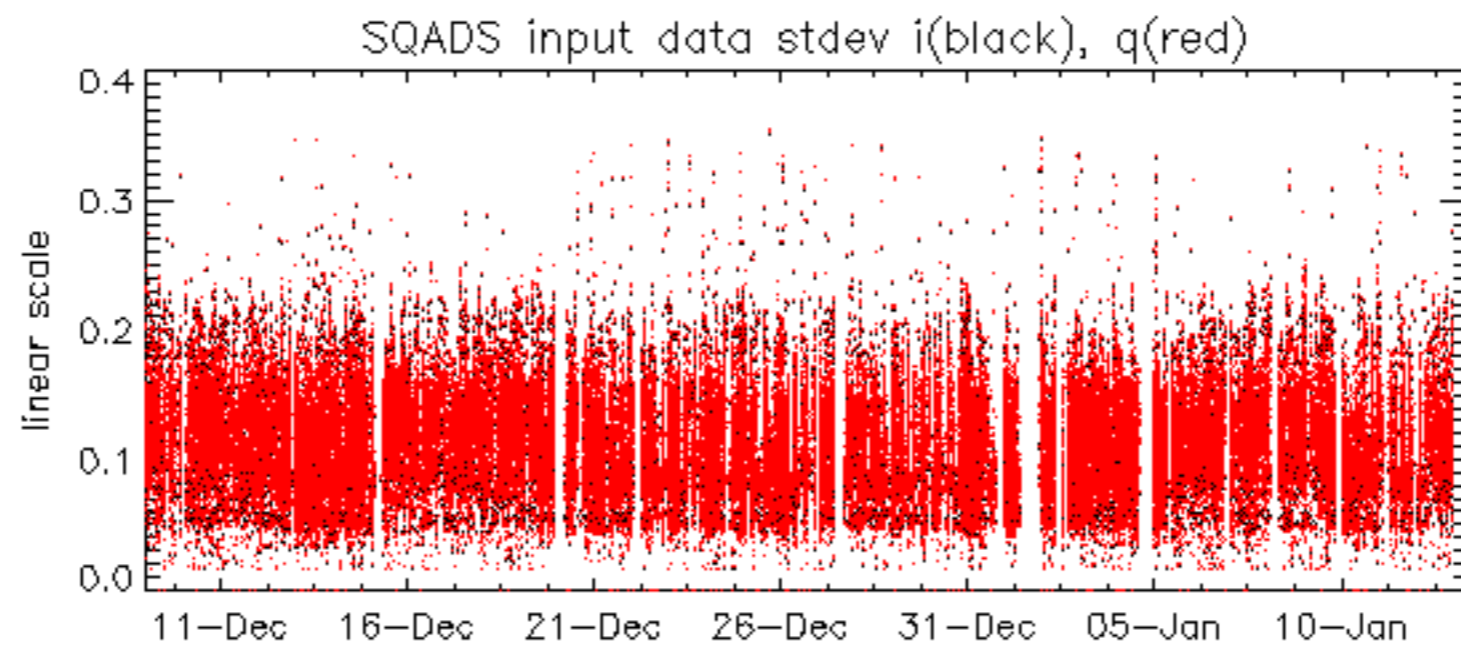
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- ASA_MS__0PNPDK20040112_191933_000000152023_00199_09772_0137.N1

No anomalies observed.







No unavailability during the reported period.