

PRELIMINARY REPORT OF 040321

ATTENTION: This report is automatically generated no comments are provided on data analysis

last update on Sun Mar 21 12:40:01 GMT 2004

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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.

2.2 - Browse Visual Inspection

2.3 - Data Analysis

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

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:

Polarisation	Start Time
V	20040320 202249
H	20040320 202129

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

⊗

4.2 - Cyclic statistics



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	0.000472174
	stdev	2.34875e-07
MEAN Q	mean	0.000493370
	stdev	2.60280e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.127546
	stdev	0.00112553
STDEV Q	mean	0.127780
	stdev	0.00113845



5.3 - Gain imbalance I/Q



6 - Doppler Analysis

Preliminary report. The data is not yet controlled

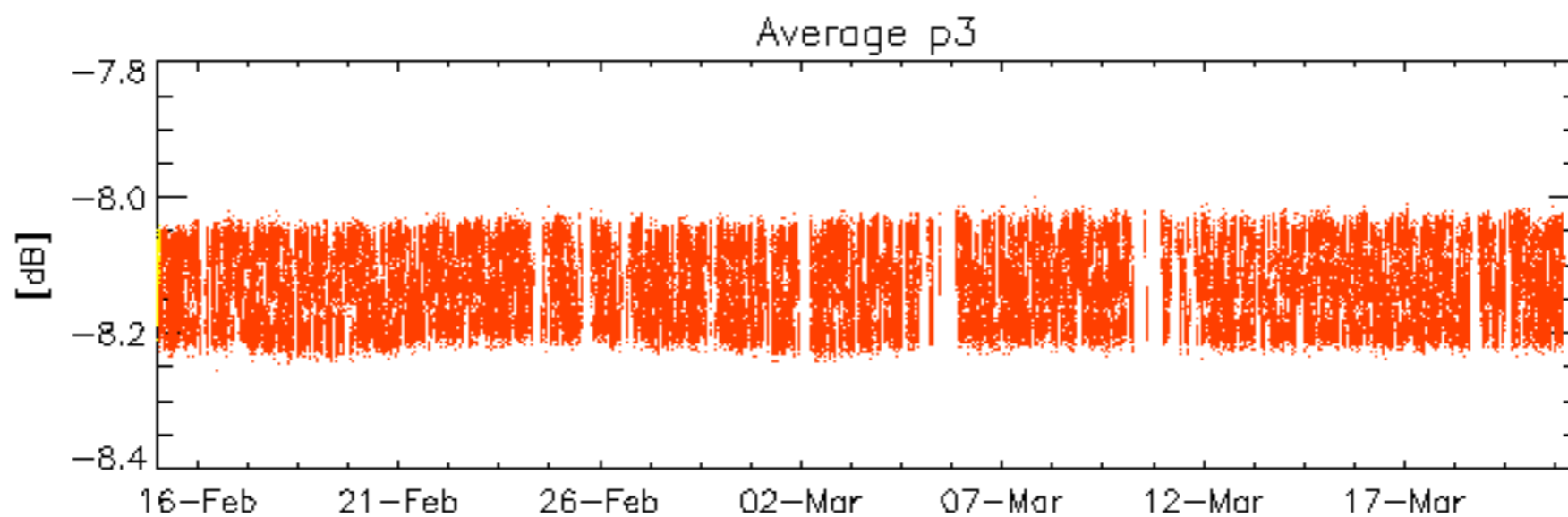
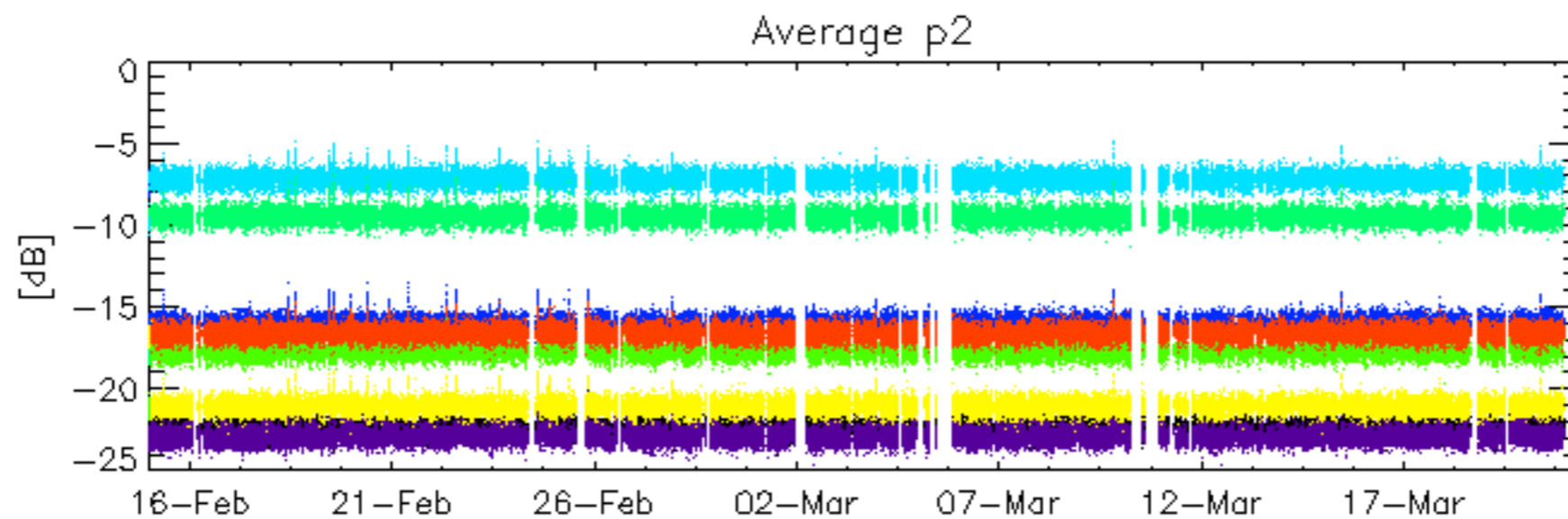
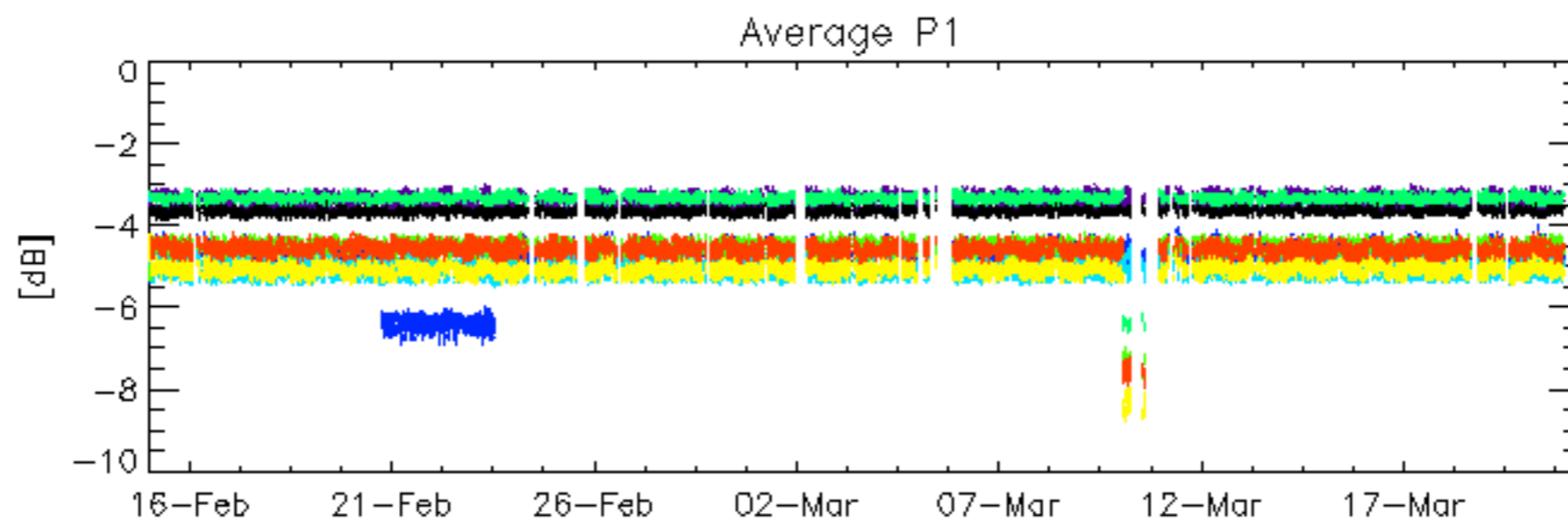
6.1 - Unbiased Doppler Error

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

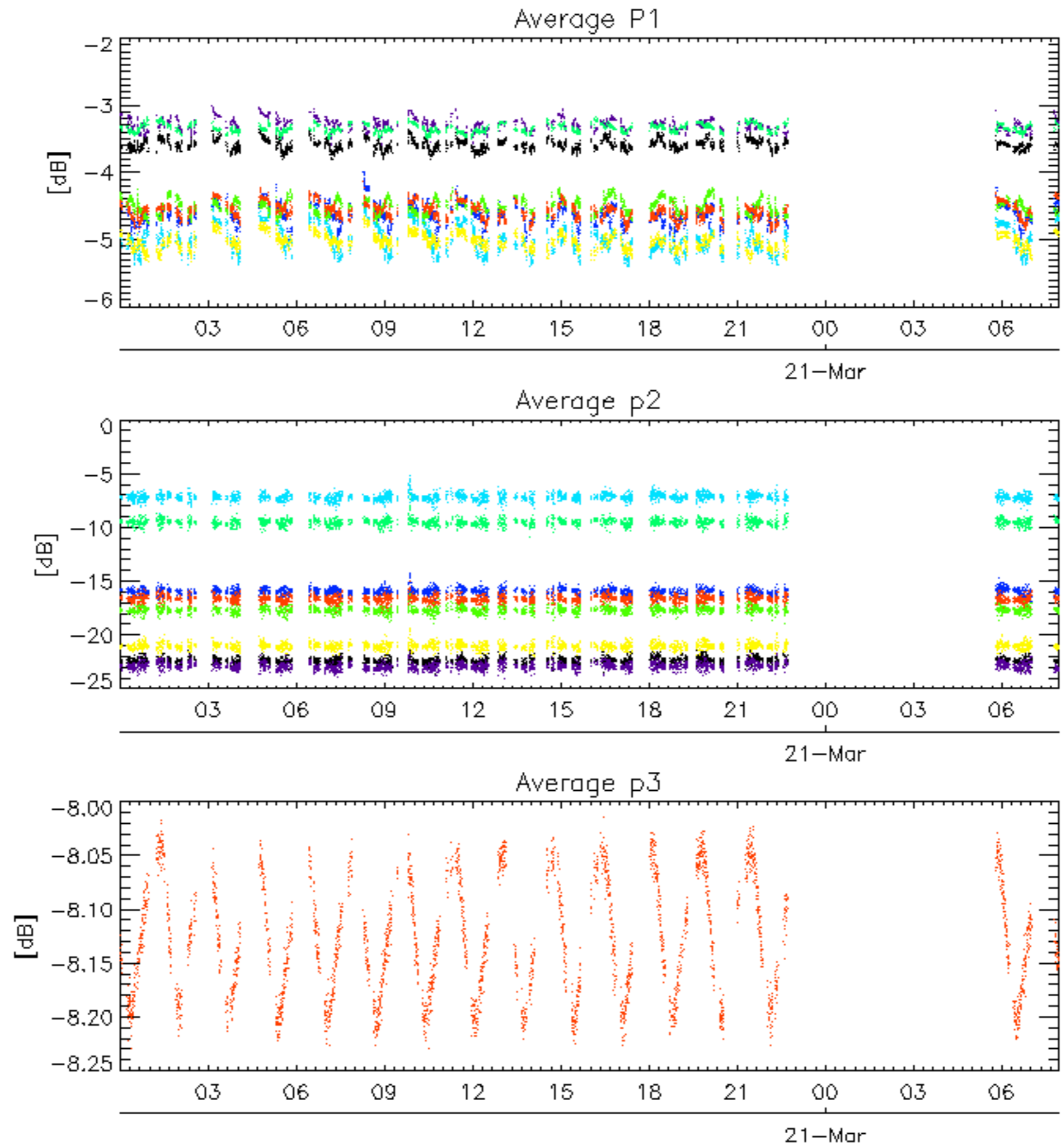
6.2 - Absolute Doppler

Evolution of Absolute Doppler
Ascending
Descending

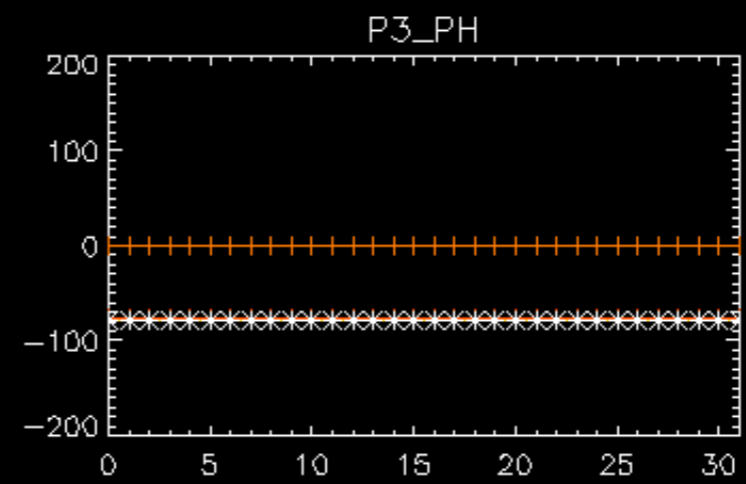
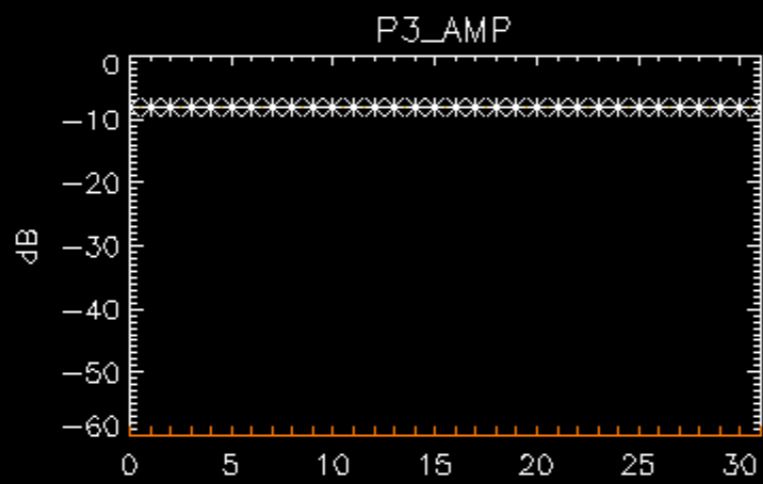
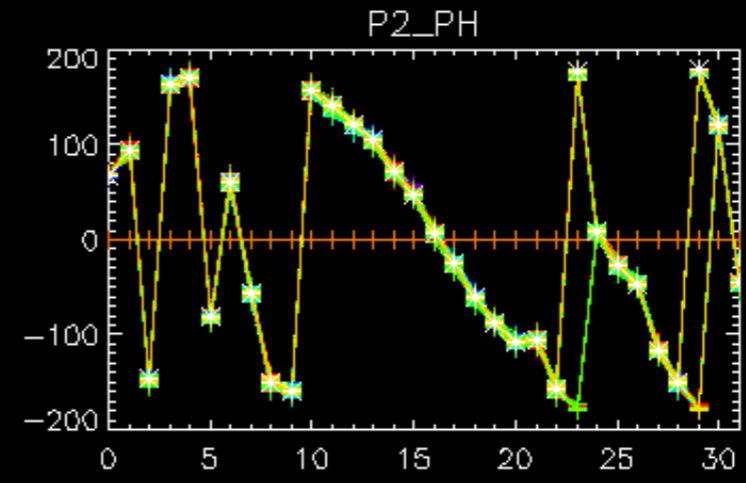
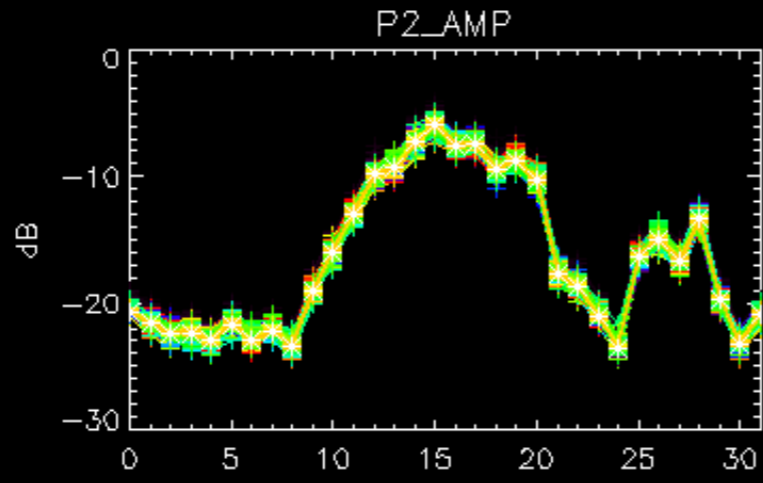
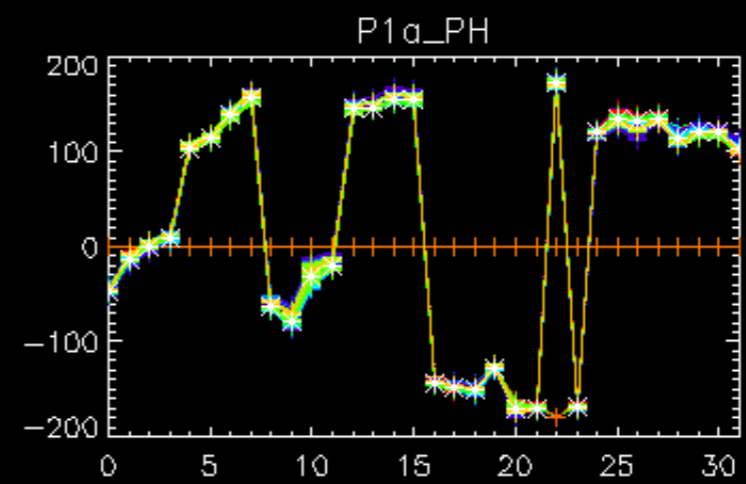
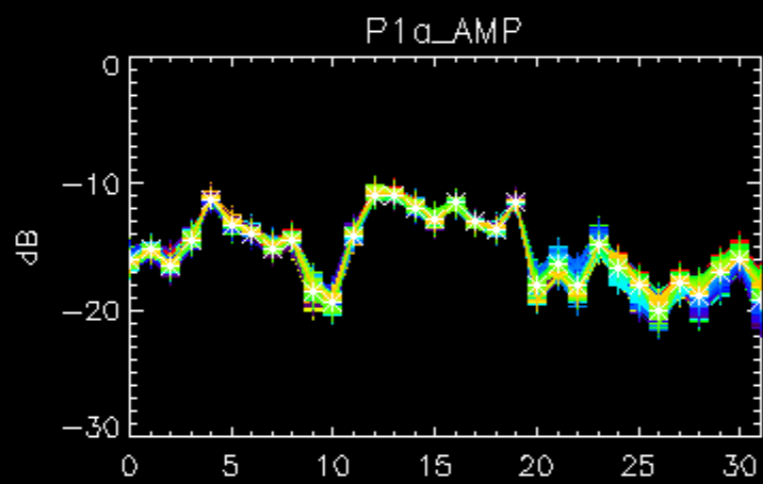
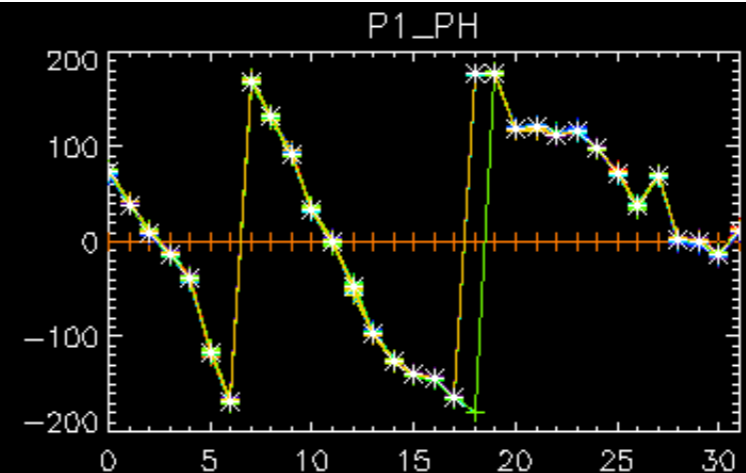
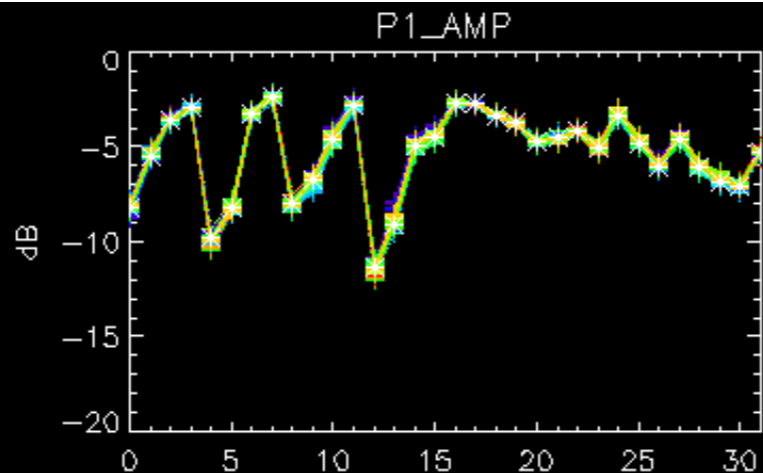
6.3 - Doppler evolution versus ANX



rows: **3** **7** **11** **15** **19** **22** **24** **28**

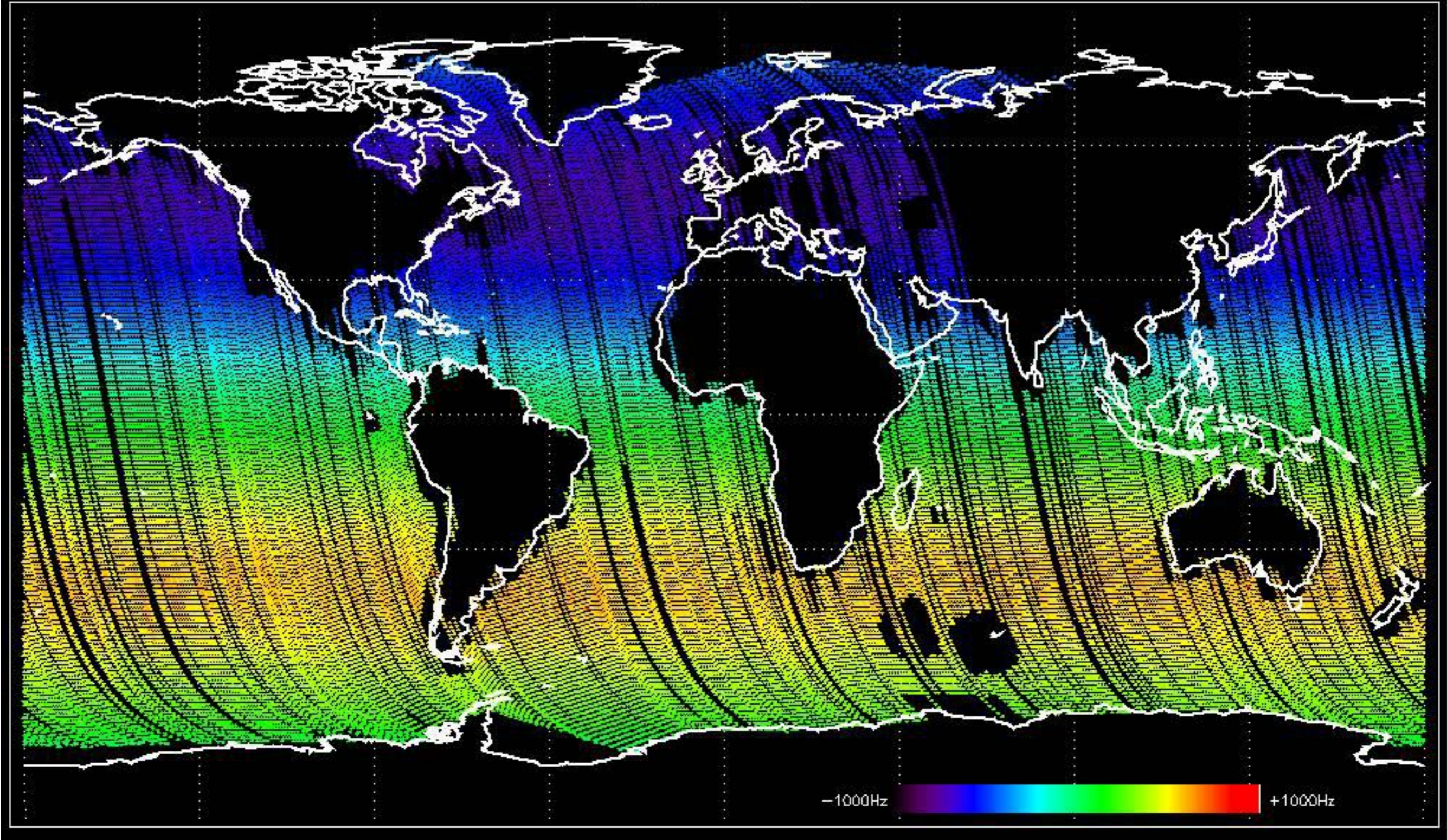


No anomalies observed.

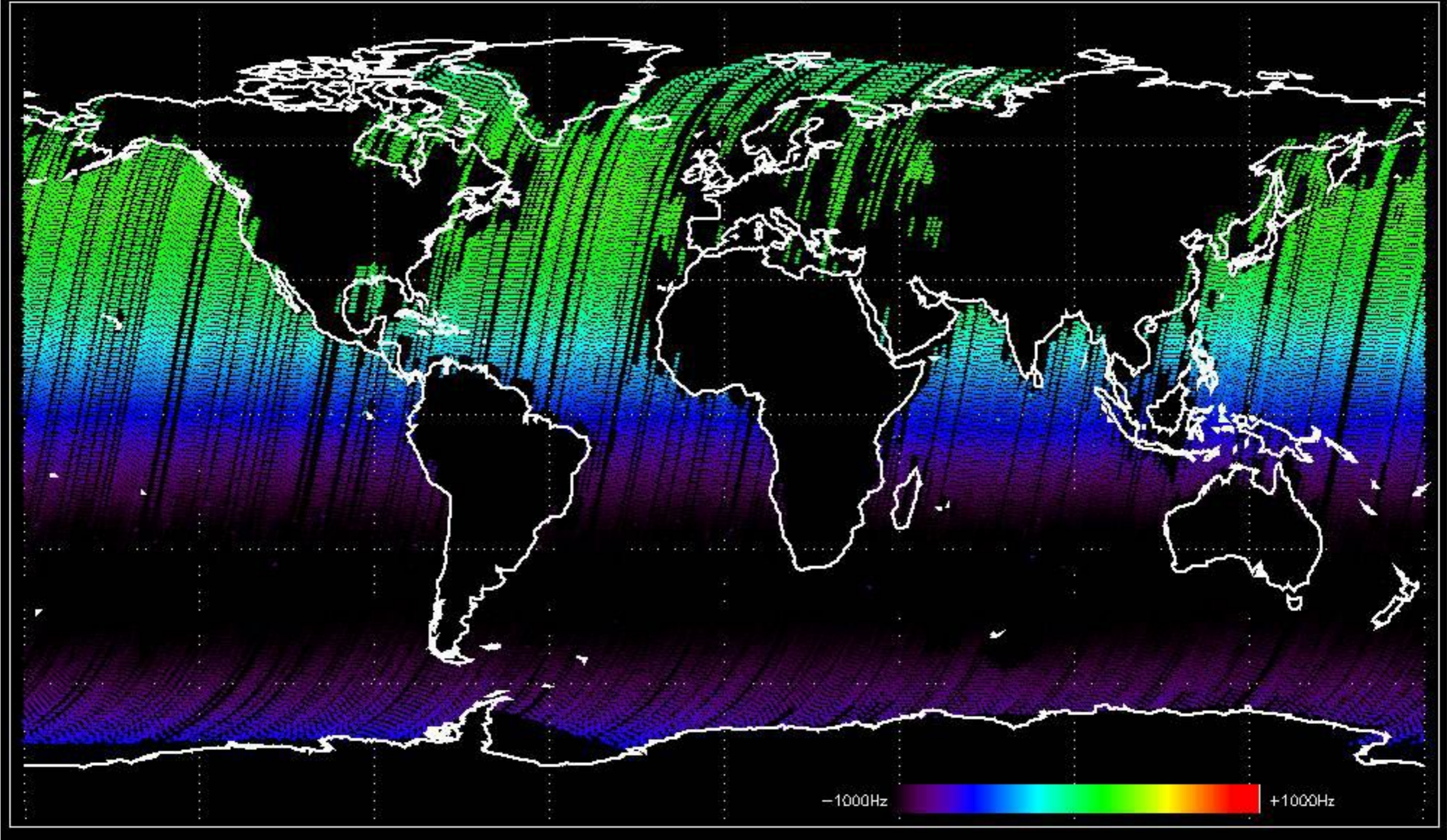


- Stable wave internal calibration pulses gain and phase.
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- Nominal Doppler behavior.

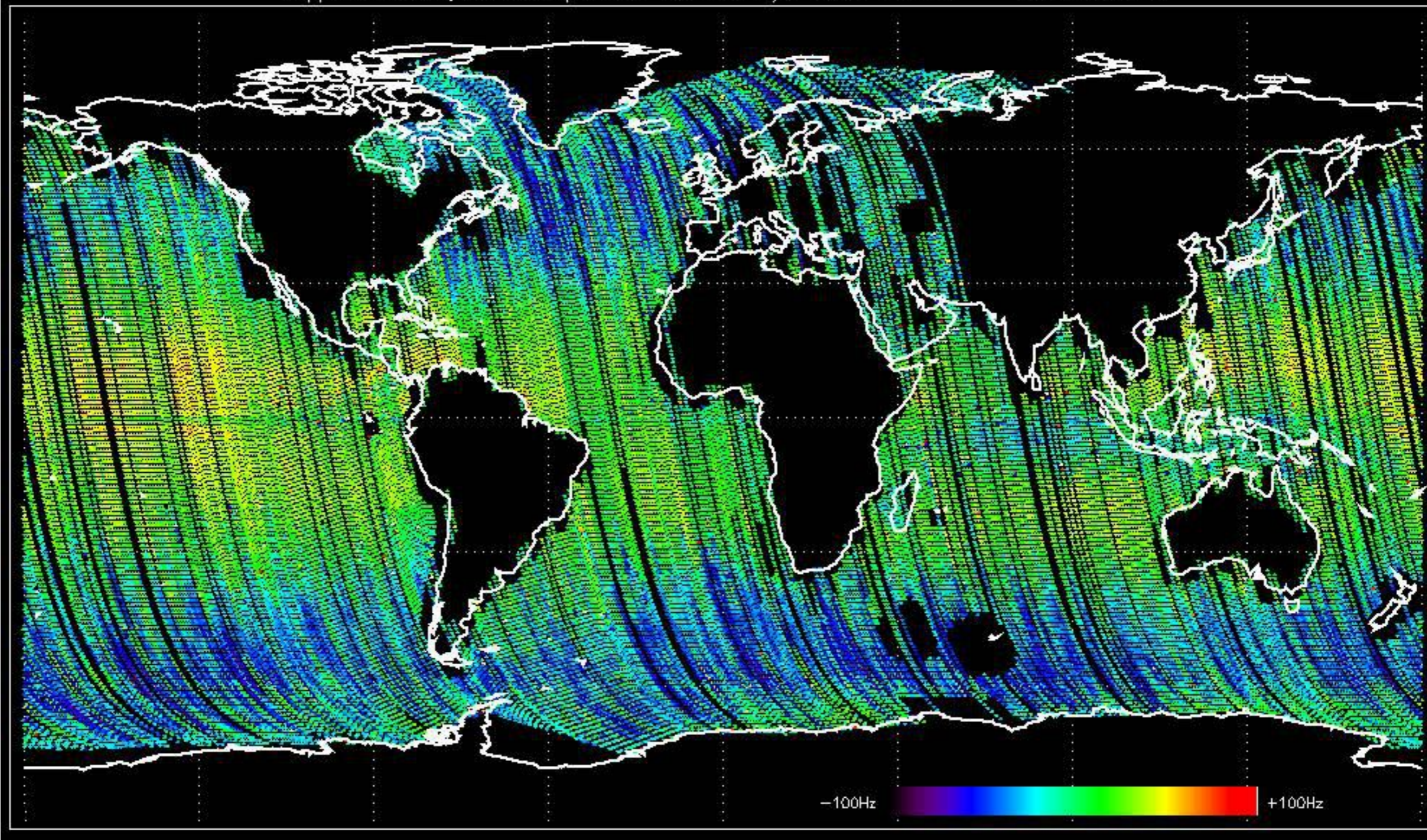
Doppler 'WVS' 'IS2' 'H/H'



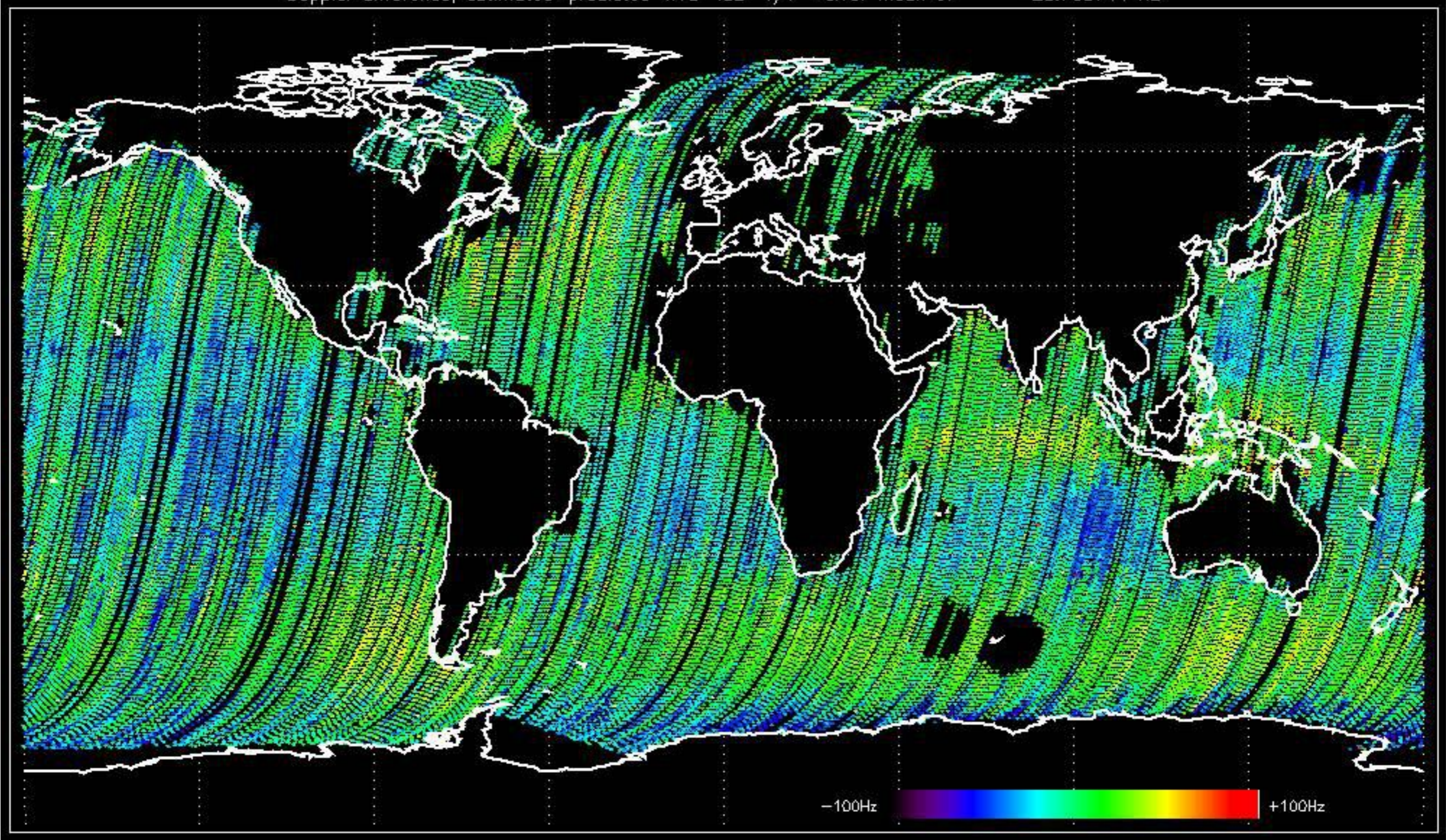
Doppler 'WVS' 'IS2' 'V/V'



Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -31.130560 Hz

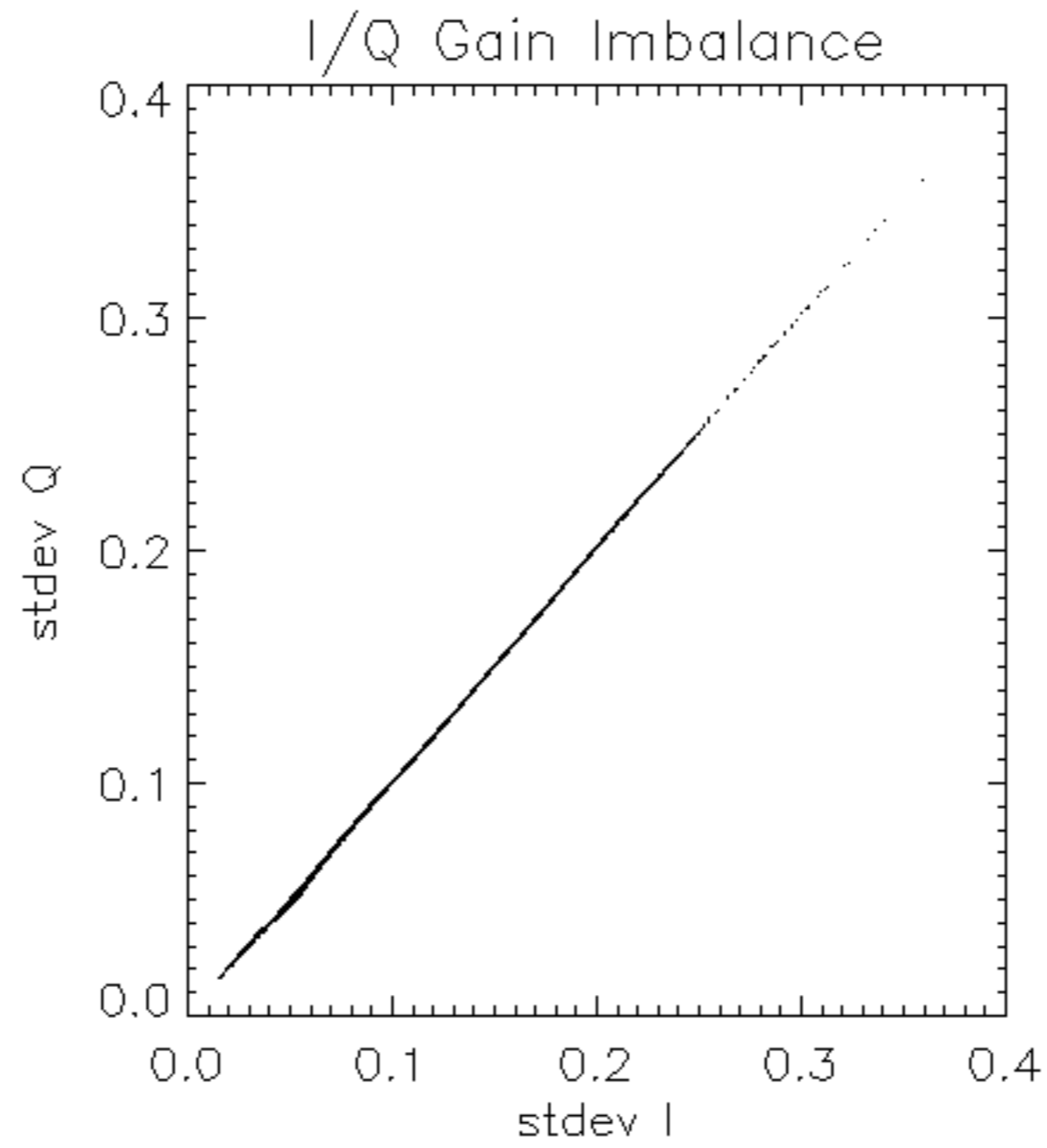


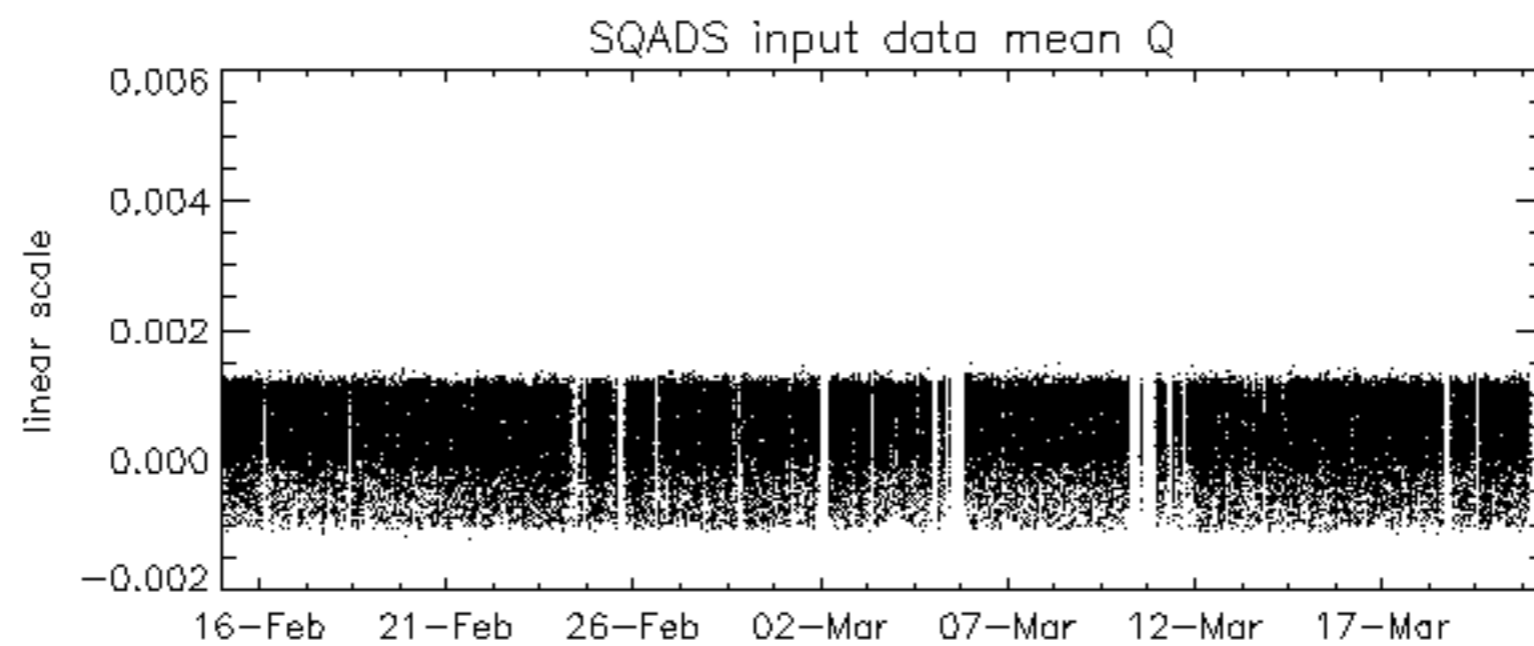
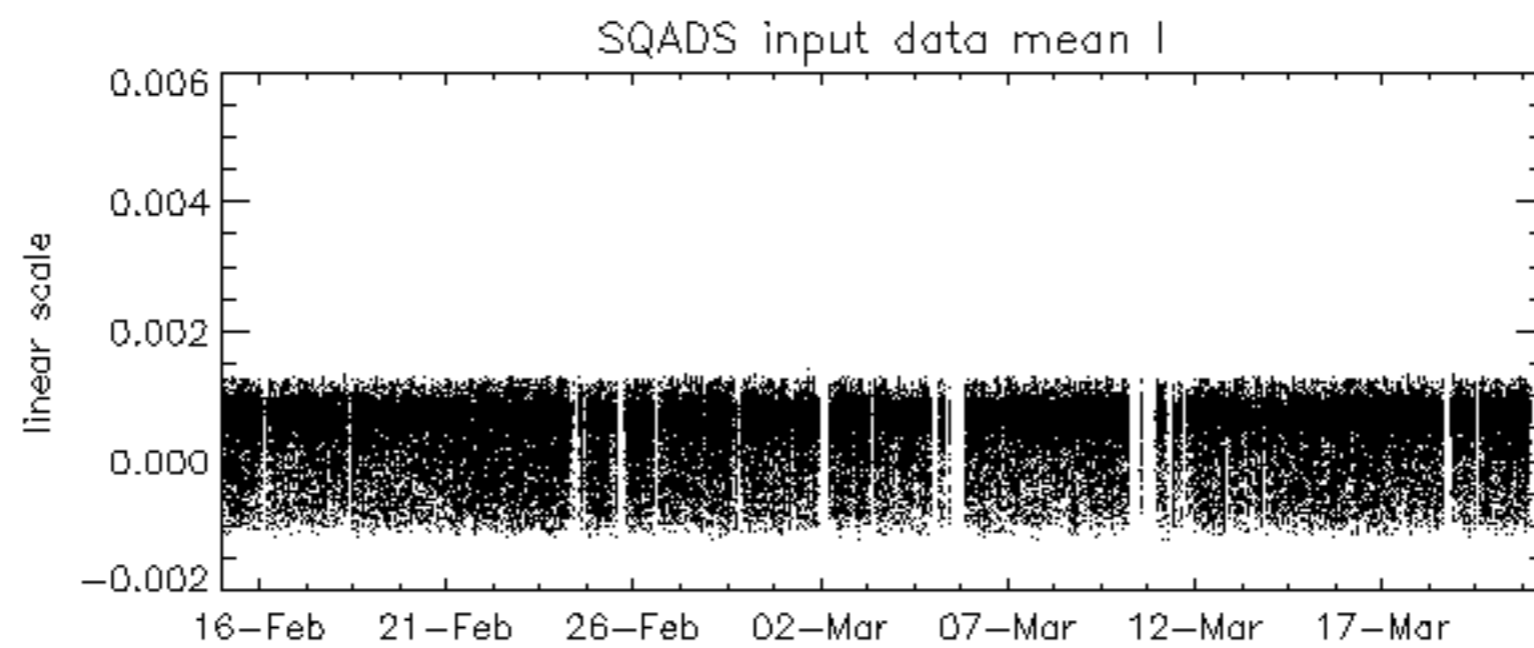
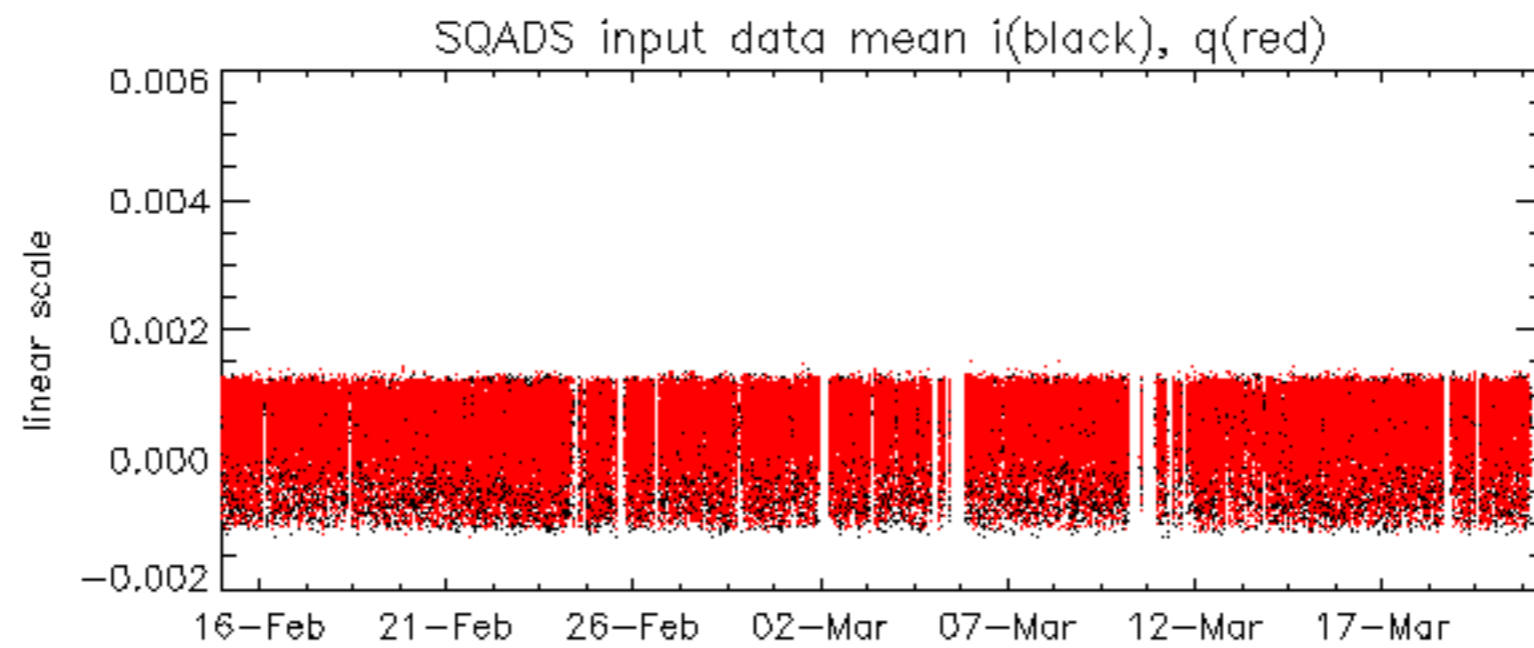
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -28.763711 Hz

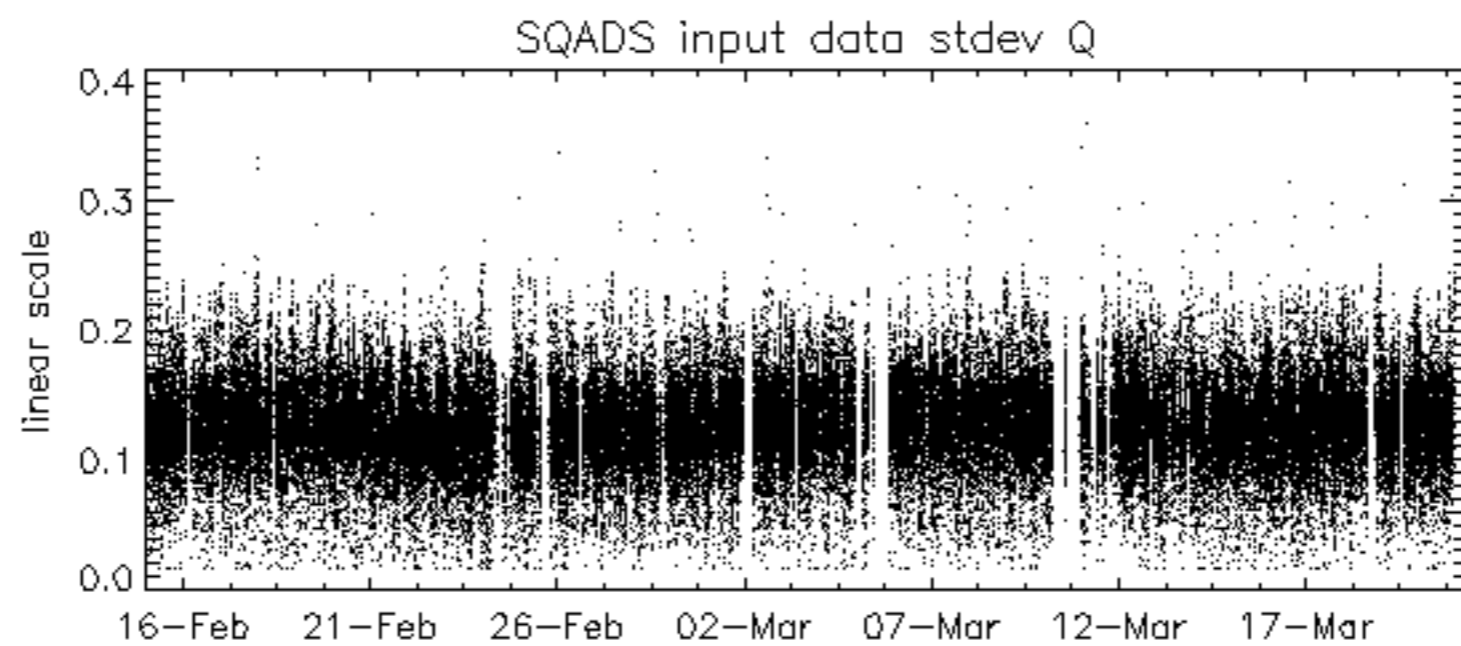
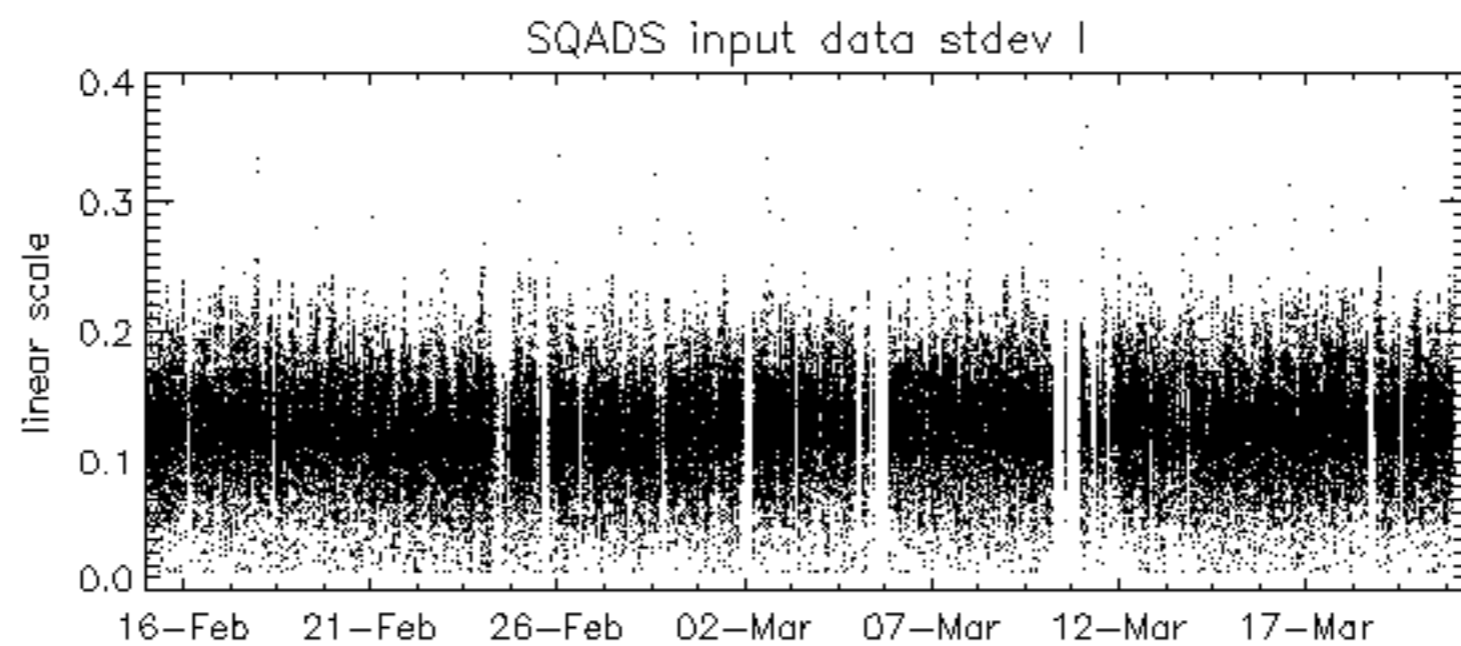
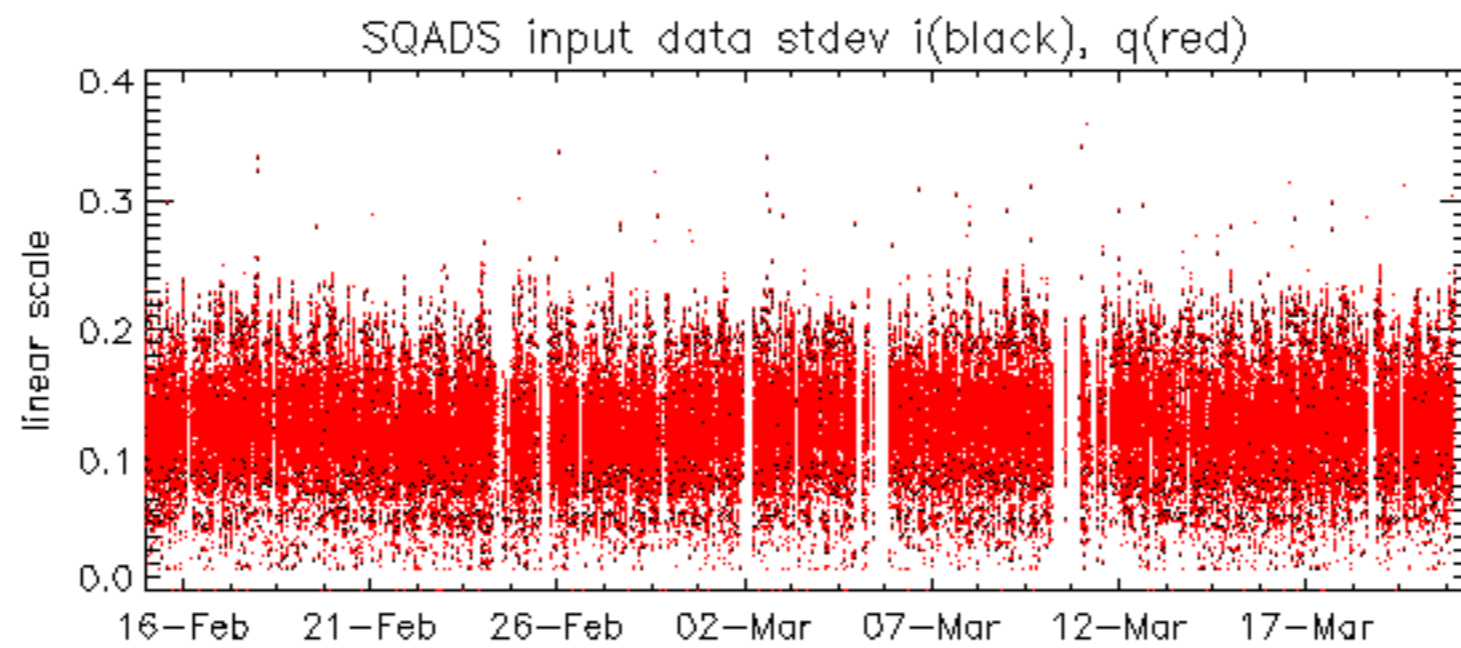


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