

PRELIMINARY REPORT OF 040308

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

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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	20040307 185049
H	20040307 184929

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			
	stdev			

24	mean			
	stdev			



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean			
	stdev			
24	mean			
	stdev			



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	0.000459236
	stdev	2.48730e-07
MEAN Q	mean	0.000456413
	stdev	2.84600e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.124777
	stdev	0.00119045

STDEV Q	mean	0.125003
	stdev	0.00120357



5.3 - Gain imbalance I/Q



6 - Wave Doppler Analysis

Preliminary report. The data is not yet controlled


6.1 - Unbiased Doppler Error

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

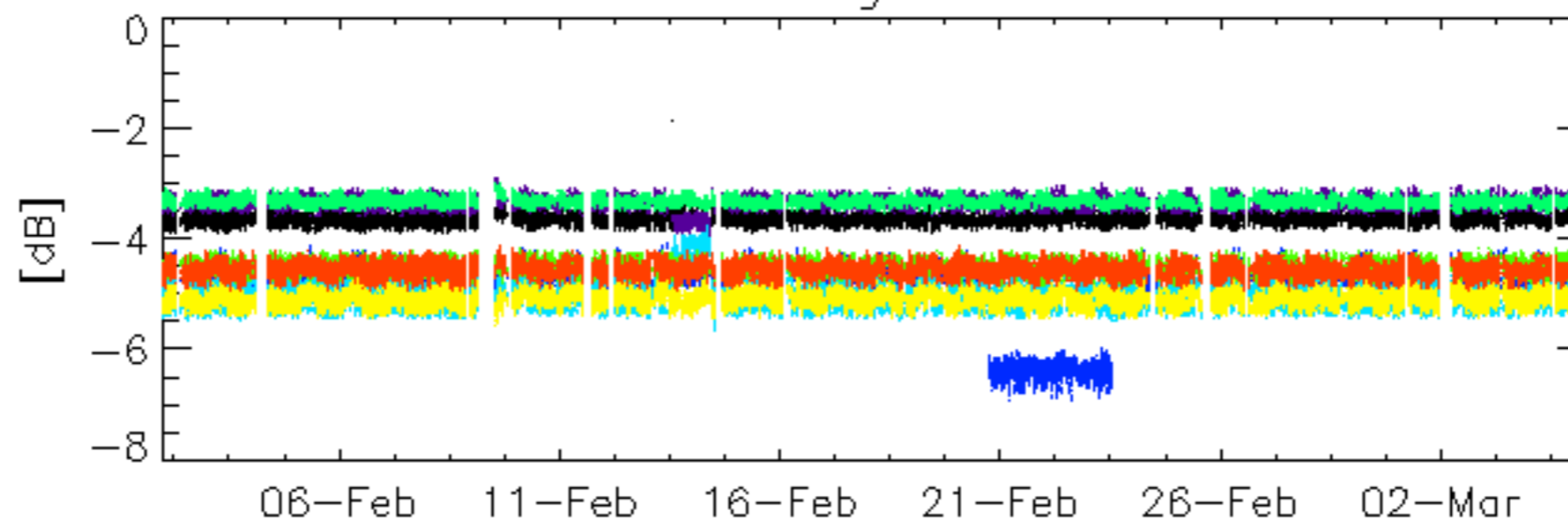
6.2 - Absolute Doppler

Evolution of Absolute Doppler
Ascending
Descending

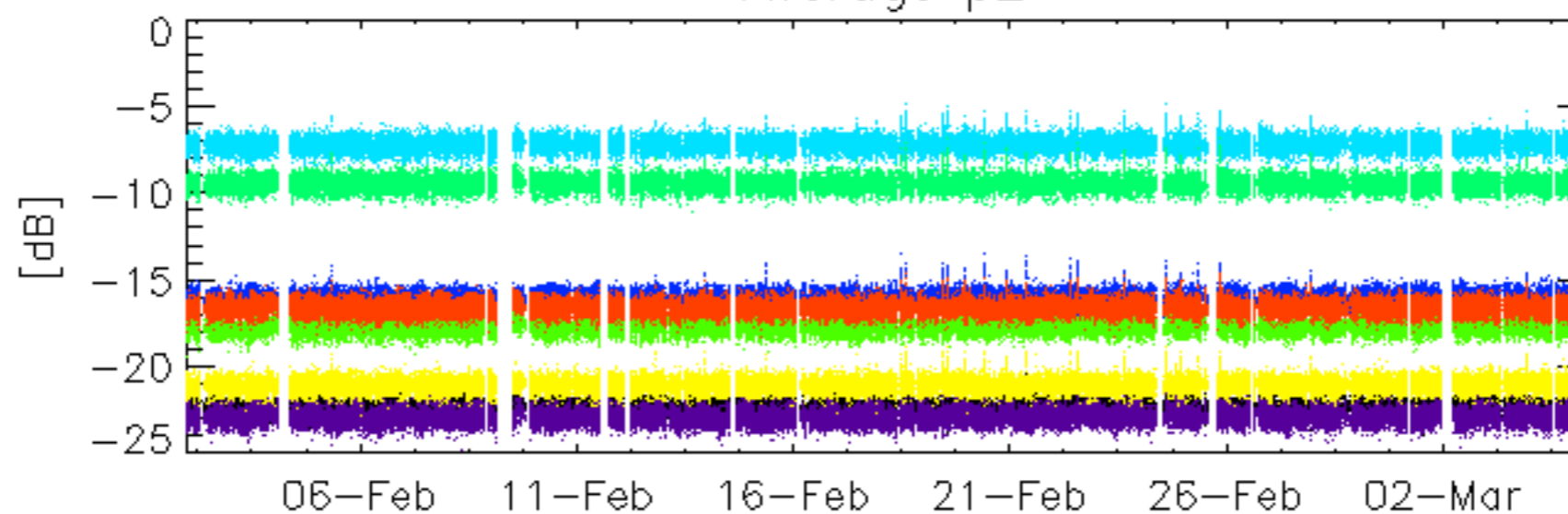
6.1 - Doppler evolution versus ANX

Evolution Doppler error versus ANX


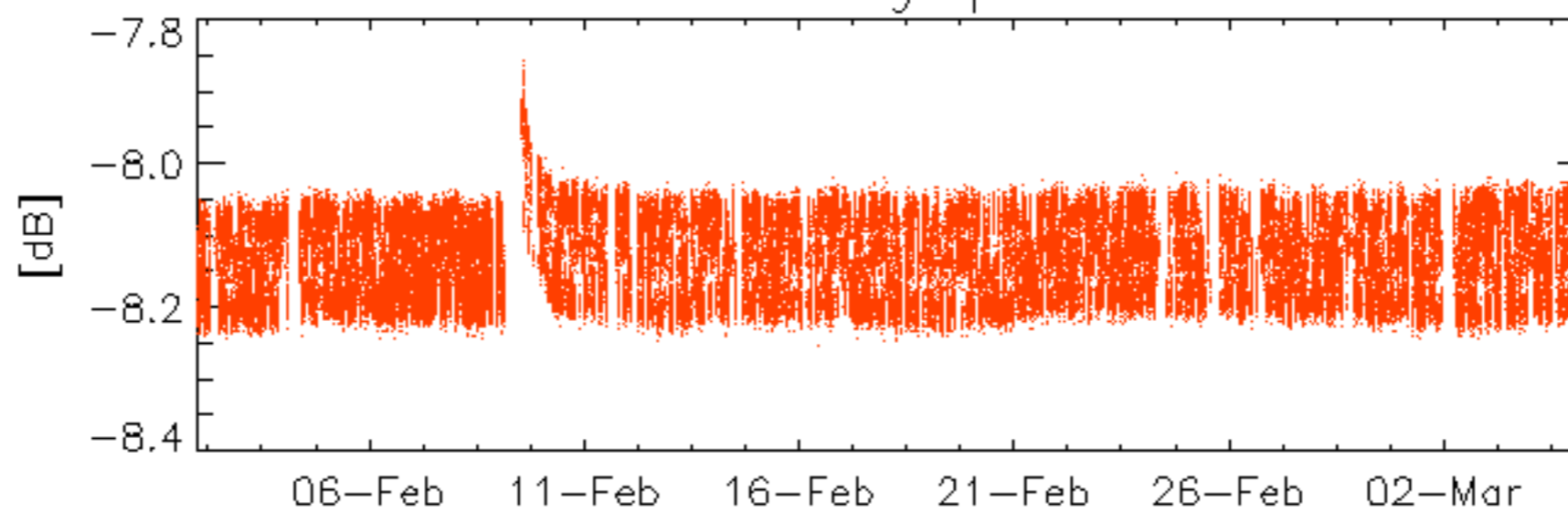
Average P1



Average p2



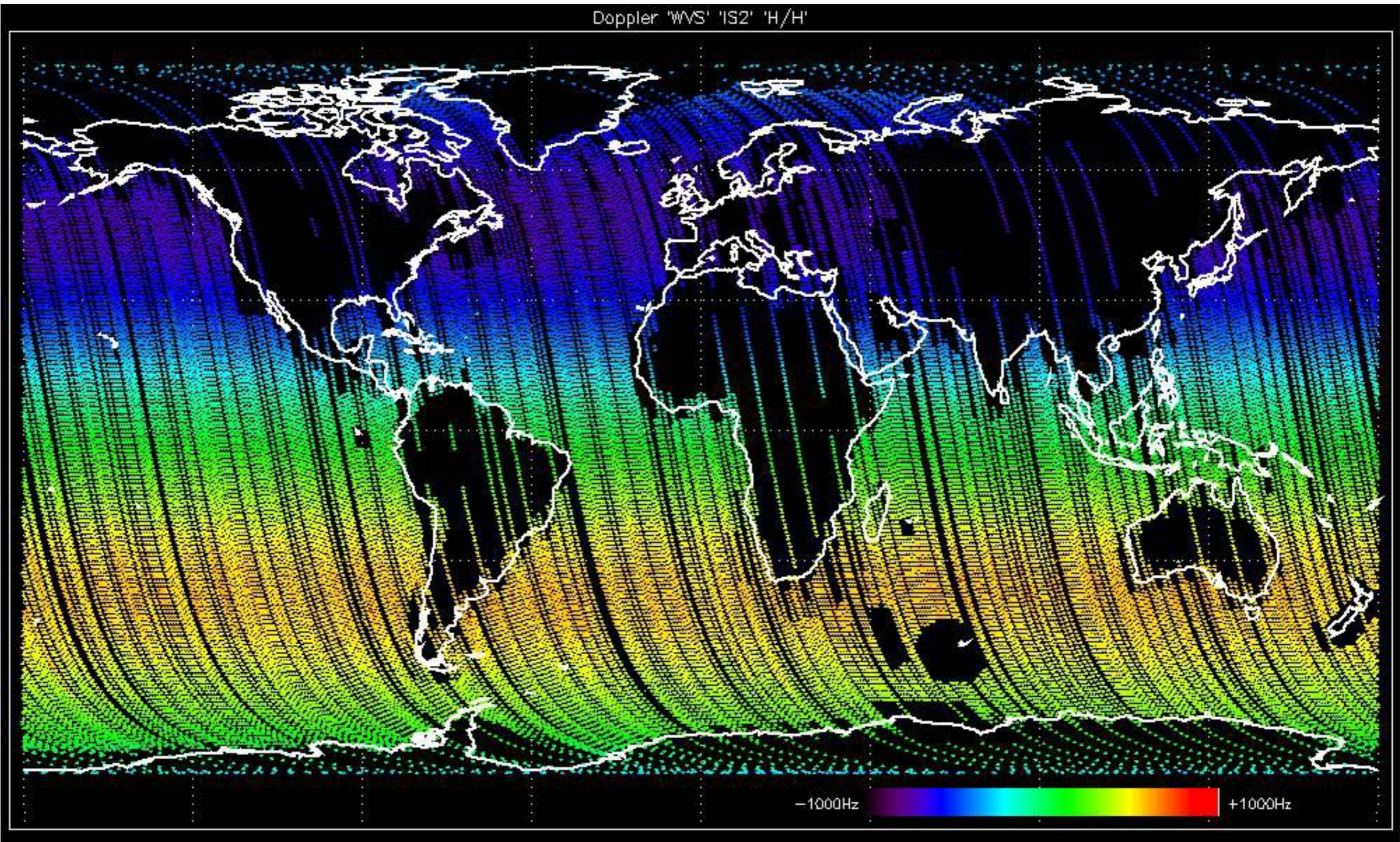
Average p3



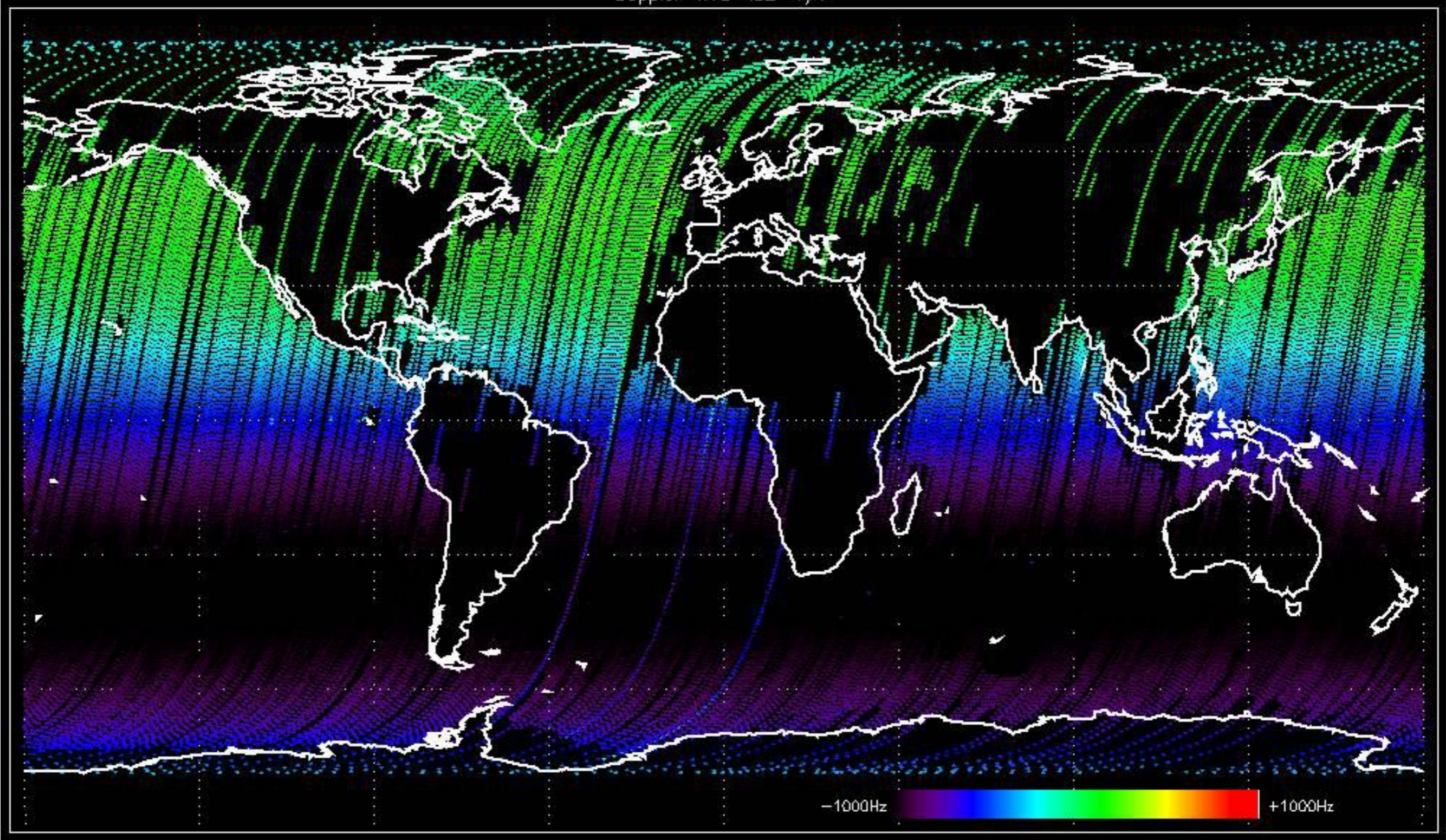
No anomalies observed.

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

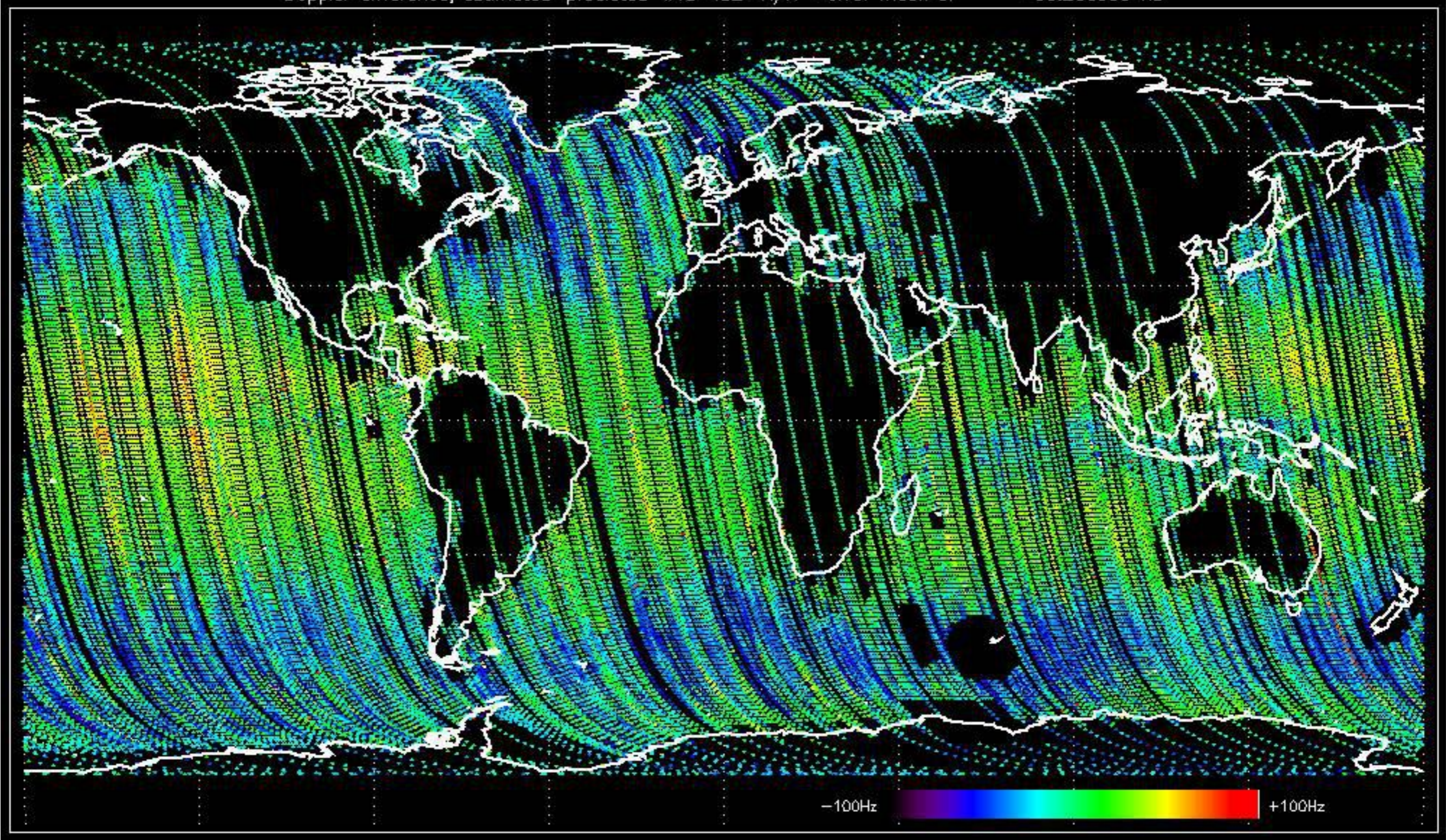
Doppler 'WVS' 'IS2' 'H/H'



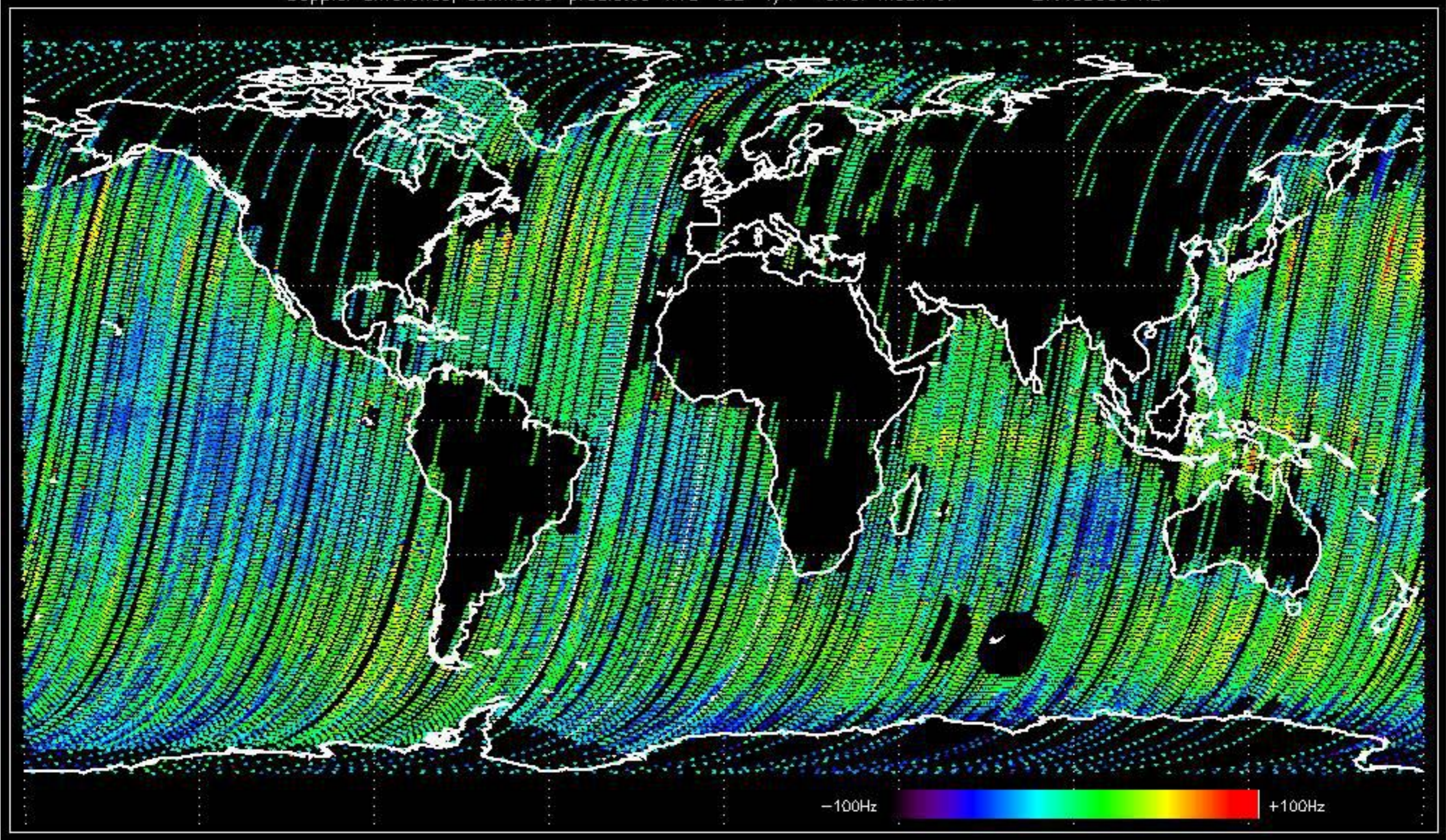
Doppler 'WVS' 'ISZ' 'V/V'



Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -30.206933 Hz

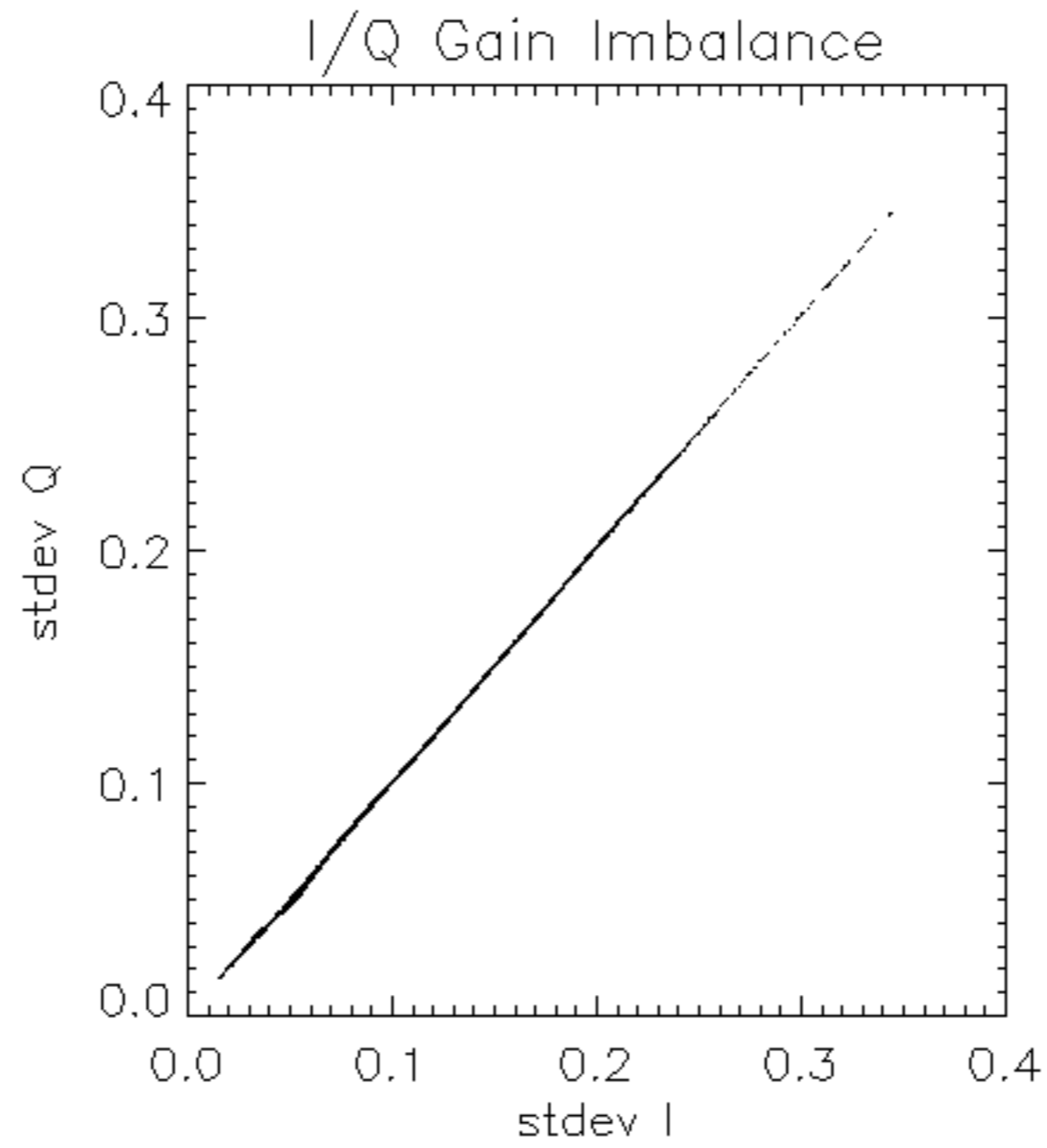


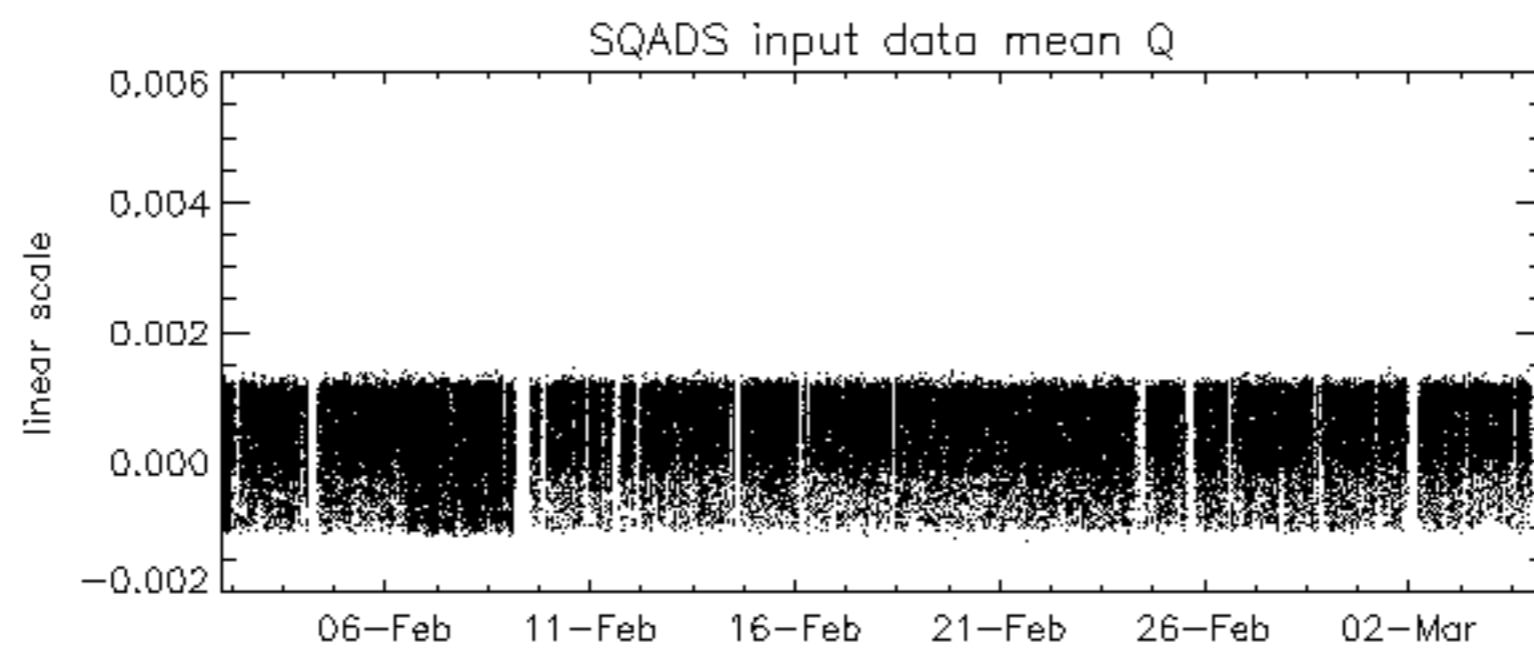
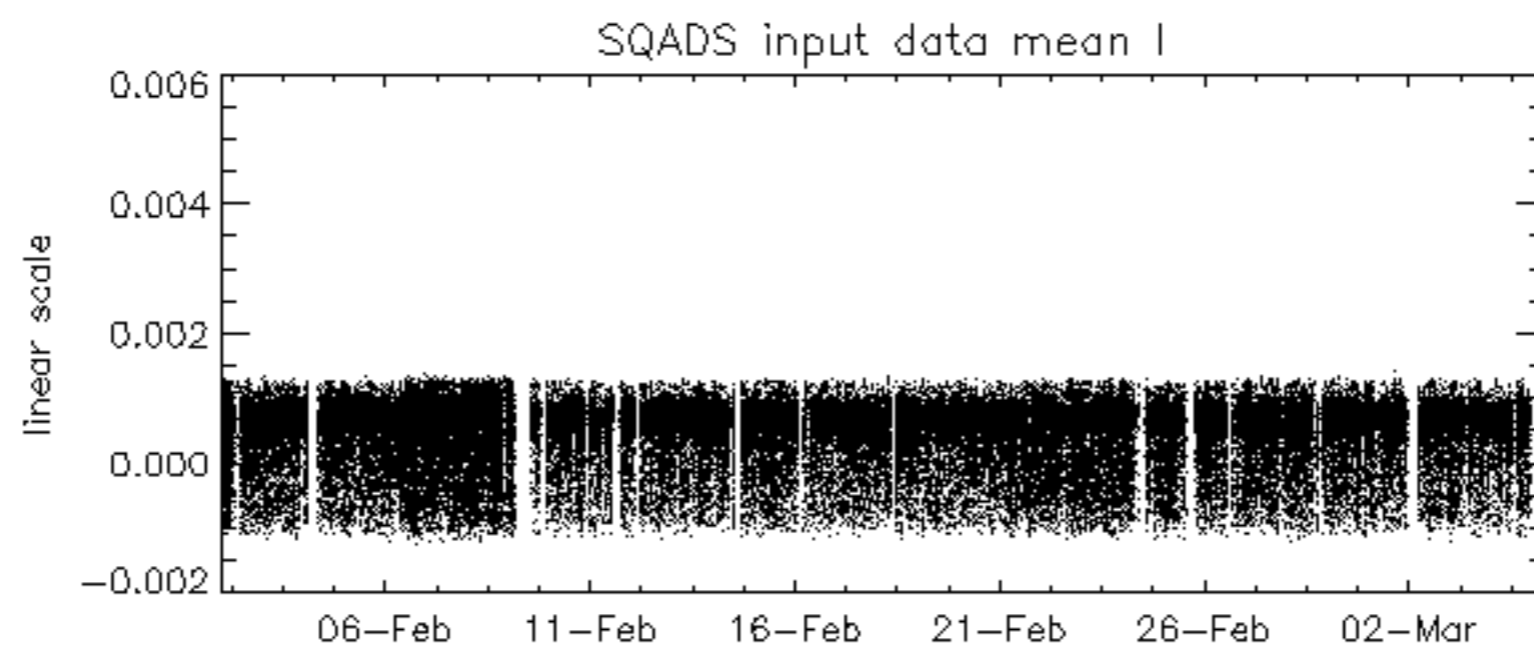
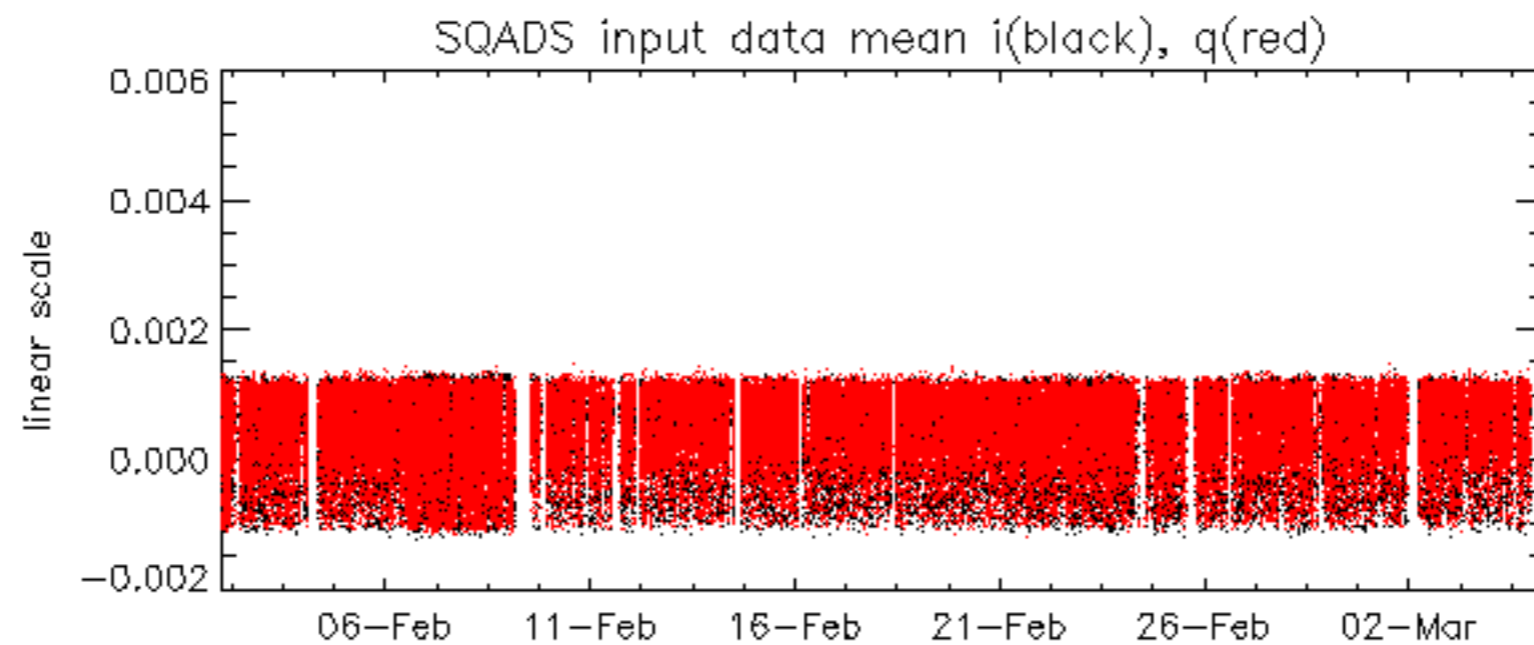
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -27.403606 Hz

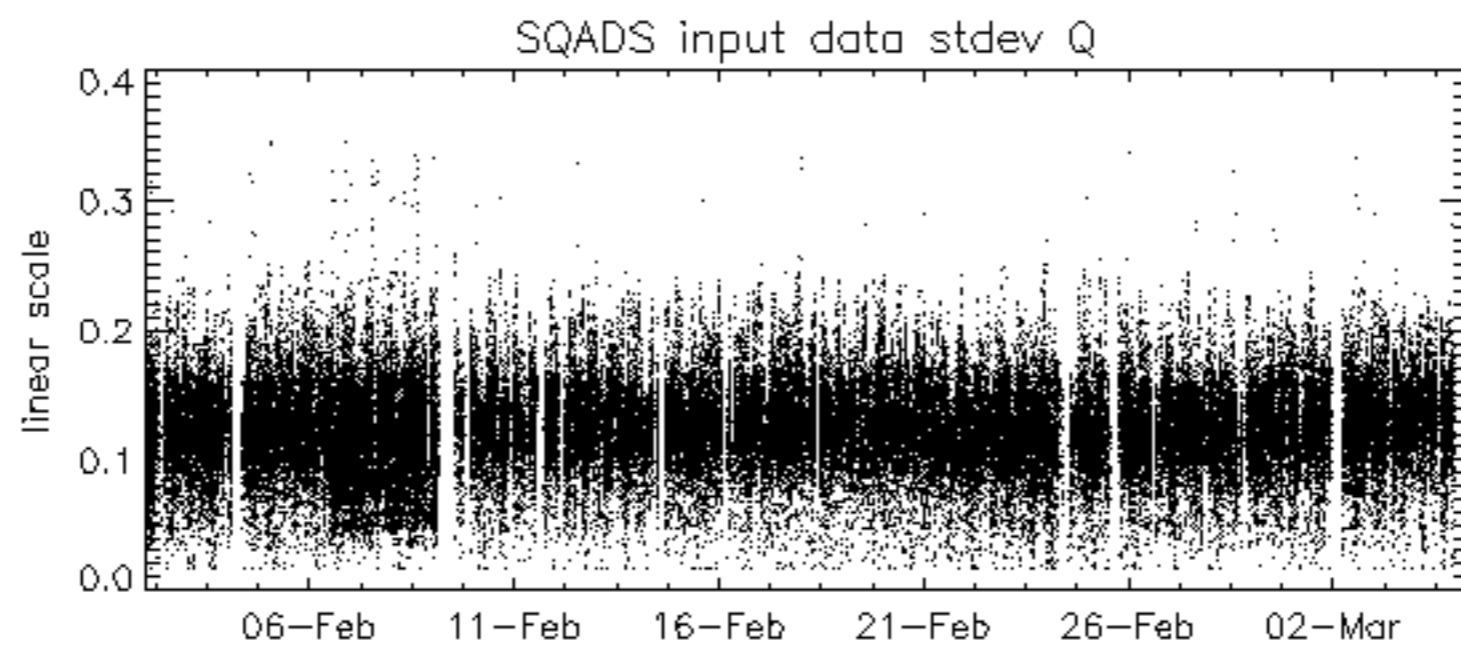
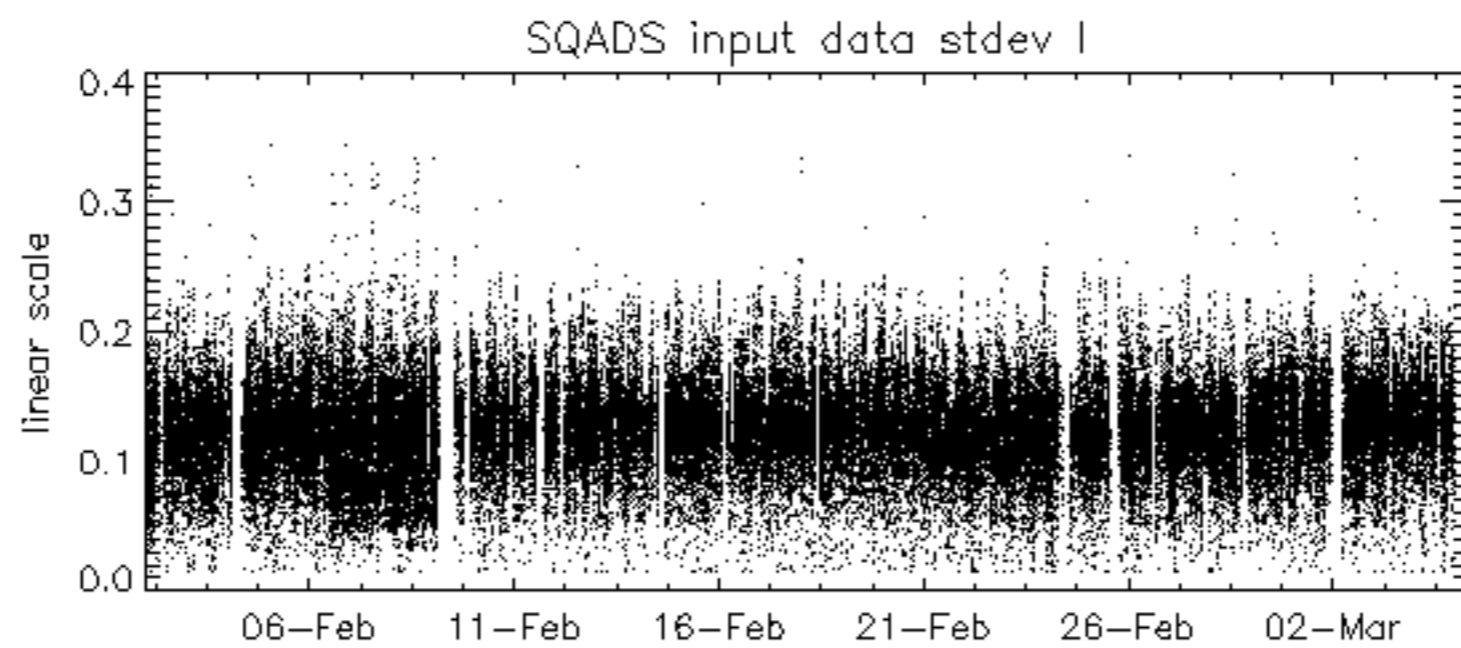
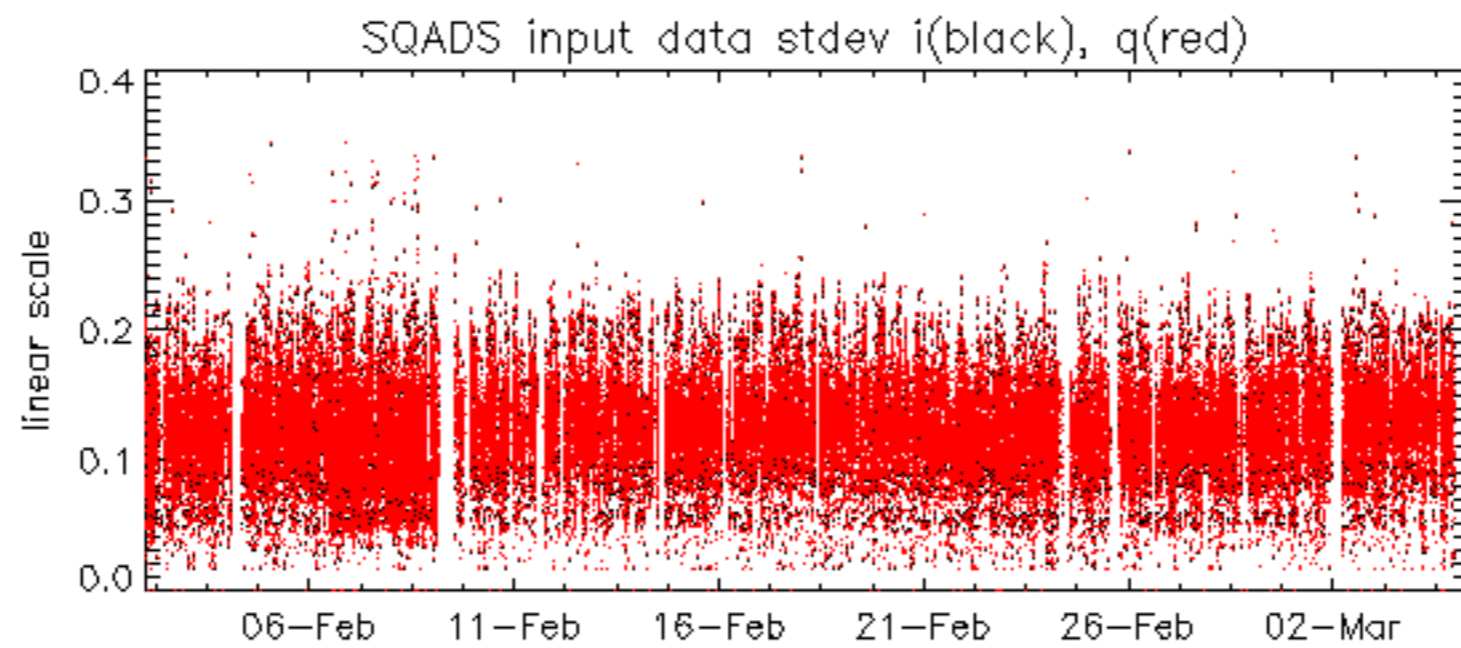


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to identify modules for which calibration offsets are to be applied.
No anomalies observed on available MS products:

No anomalies observed.







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