

REPORT OF 040119

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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

No anomalies observed on available browse products

2.3 - Data Analysis

Preliminary report. The data is not yet controlled

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	20040118 193101
H	20040118 192941

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	-3.67710	-22.4708	-8.15040
	stdev	0.00692759	0.0640538	0.00276205
24	mean	-5.10315	-21.1164	-8.15040
	stdev	0.0171126	0.0580494	0.00276205



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
3	mean	-3.71093	-22.5378	-8.16028
	stdev	0.00724612	0.0696659	0.00342616
24	mean	-5.22453	-21.1639	-8.16028
	stdev	0.577129	0.0633132	0.00342616



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	0.000427555
	stdev	3.01876e-07
MEAN Q	mean	0.000307587
	stdev	3.62773e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.115871
	stdev	0.00139966
STDEV Q	mean	0.116112
	stdev	0.00141439



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

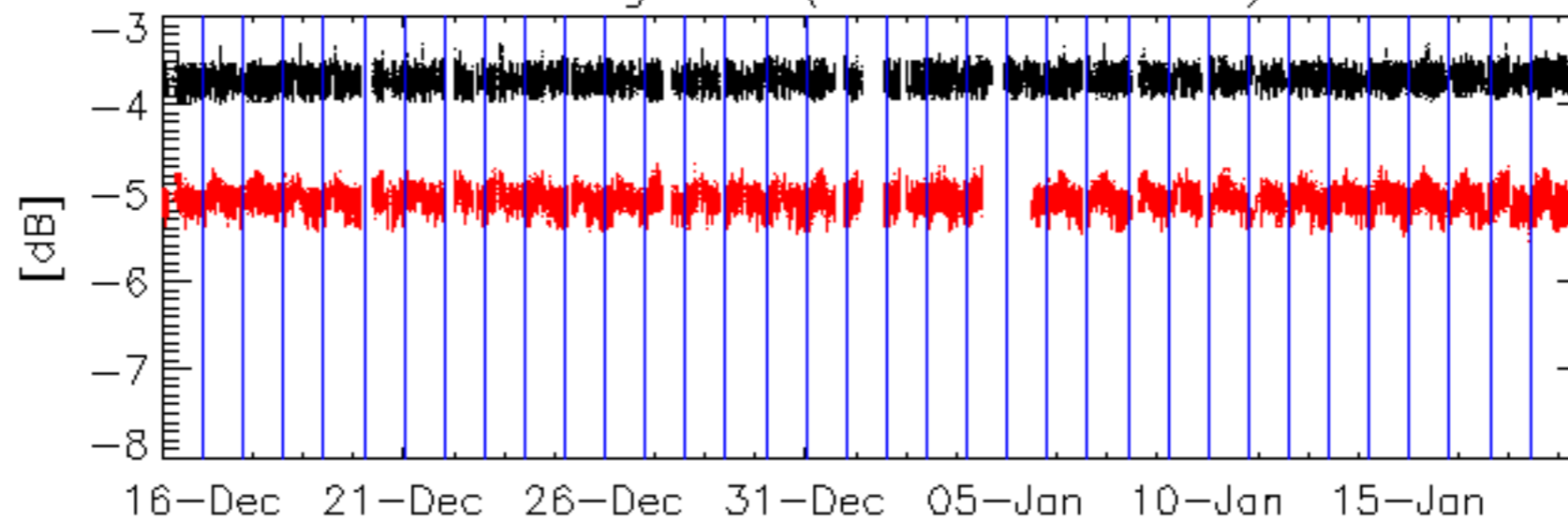
6.2 - Absolute Doppler

Evolution of Absolute Doppler
Ascending
Descending

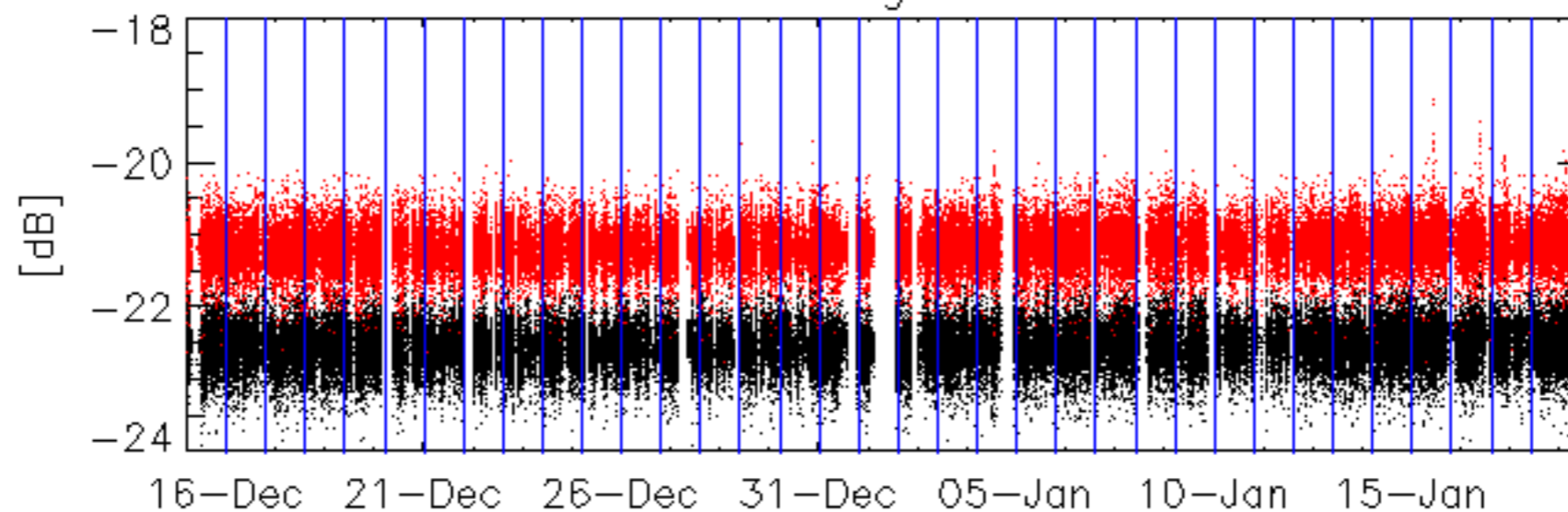
6.3 - Doppler evolution versus ANX

Evolution Doppler error versus ANX

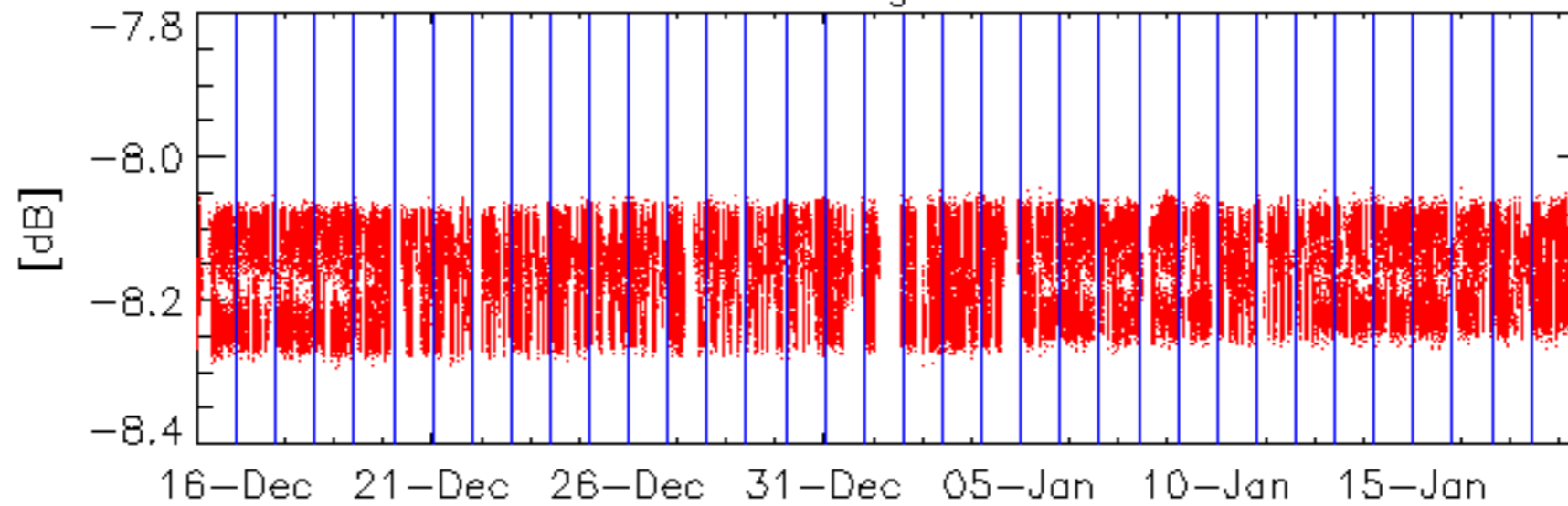

Average P1 (row 3 & row 24)



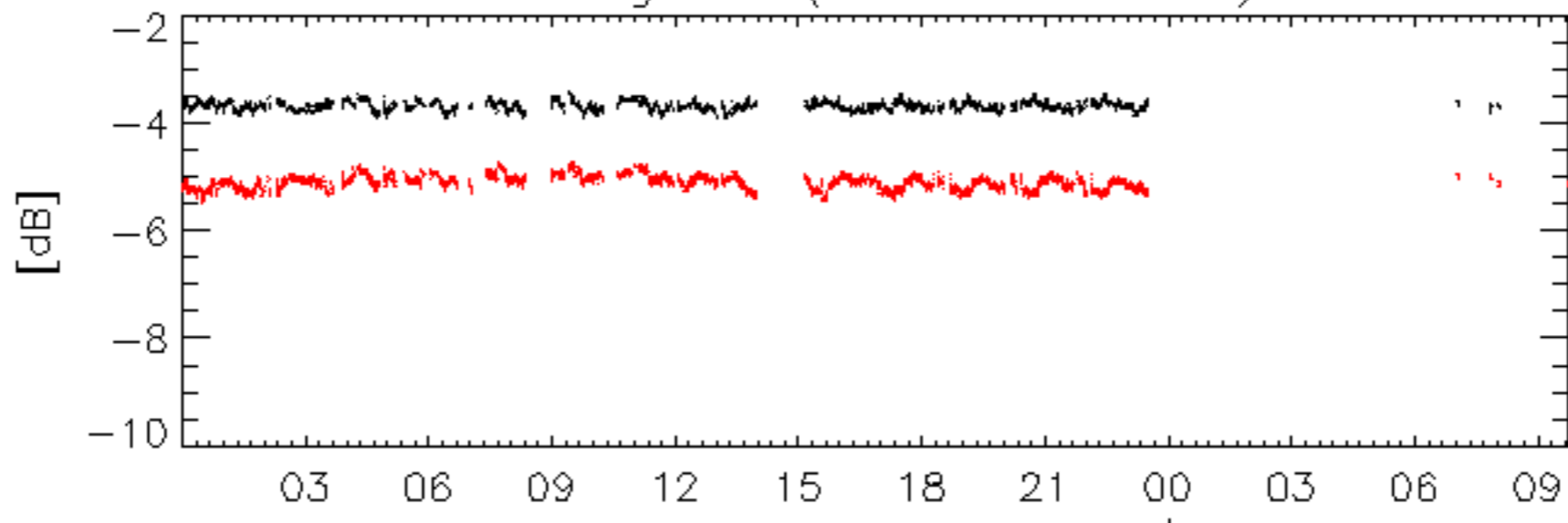
Average P2



Average P3

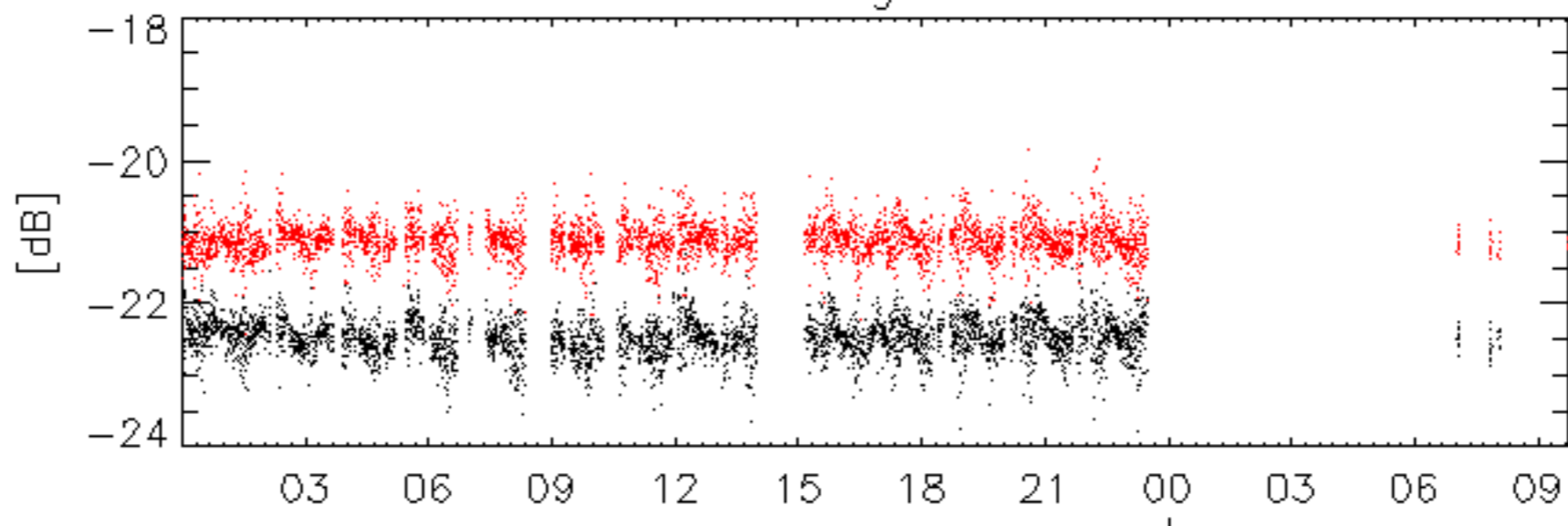


Average P1 (row 3 & row 24)



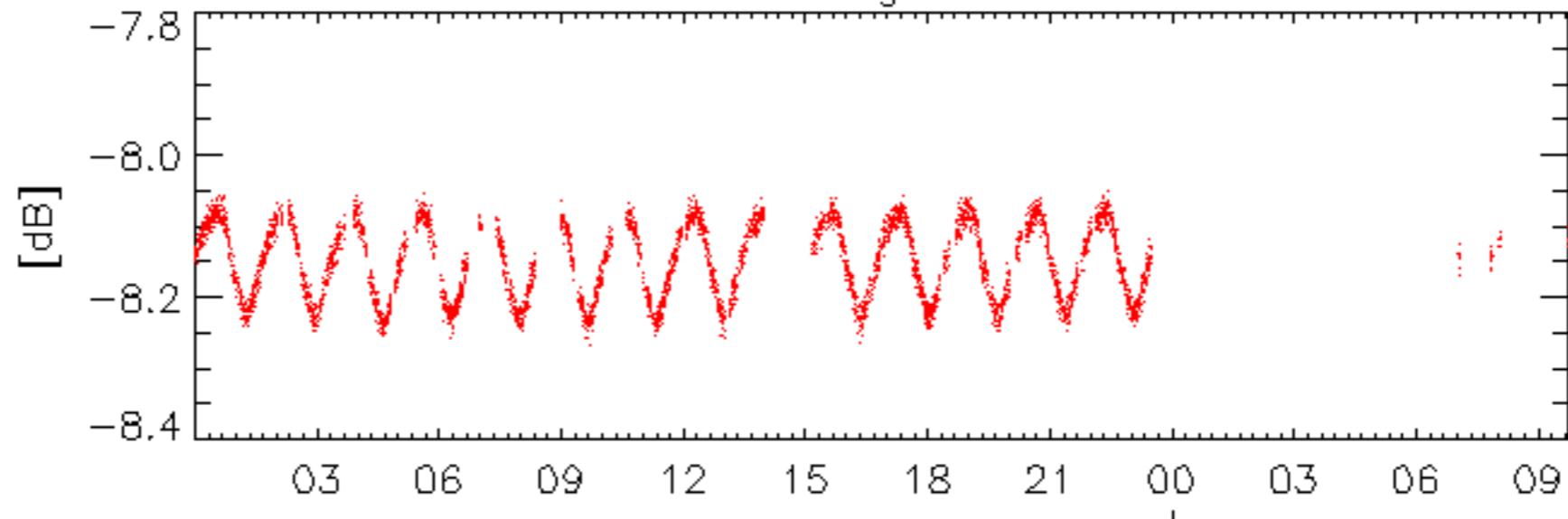
19-Jan

Average P2



19-Jan

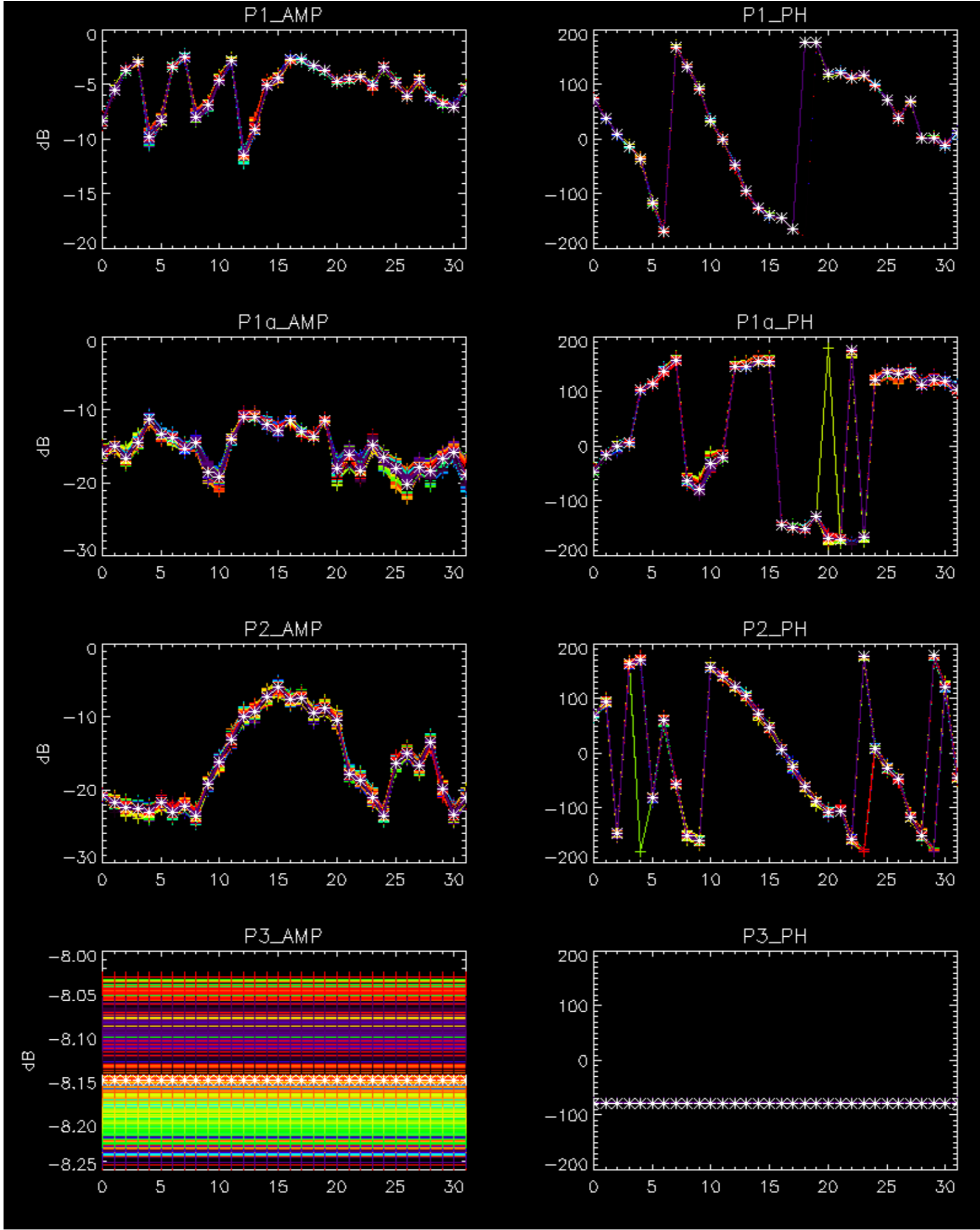
Average P3



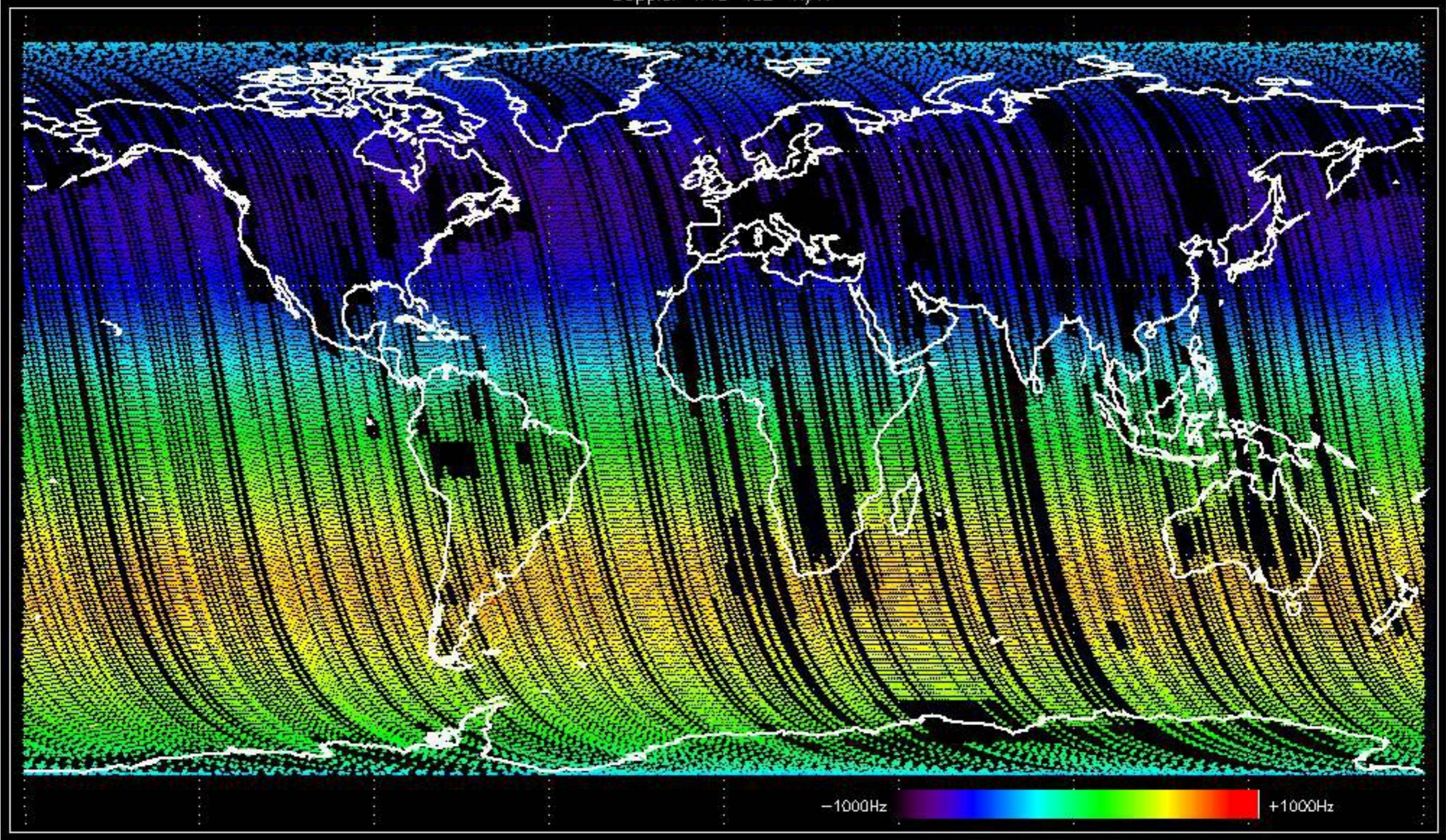
19-Jan

No anomalies observed on available browse products

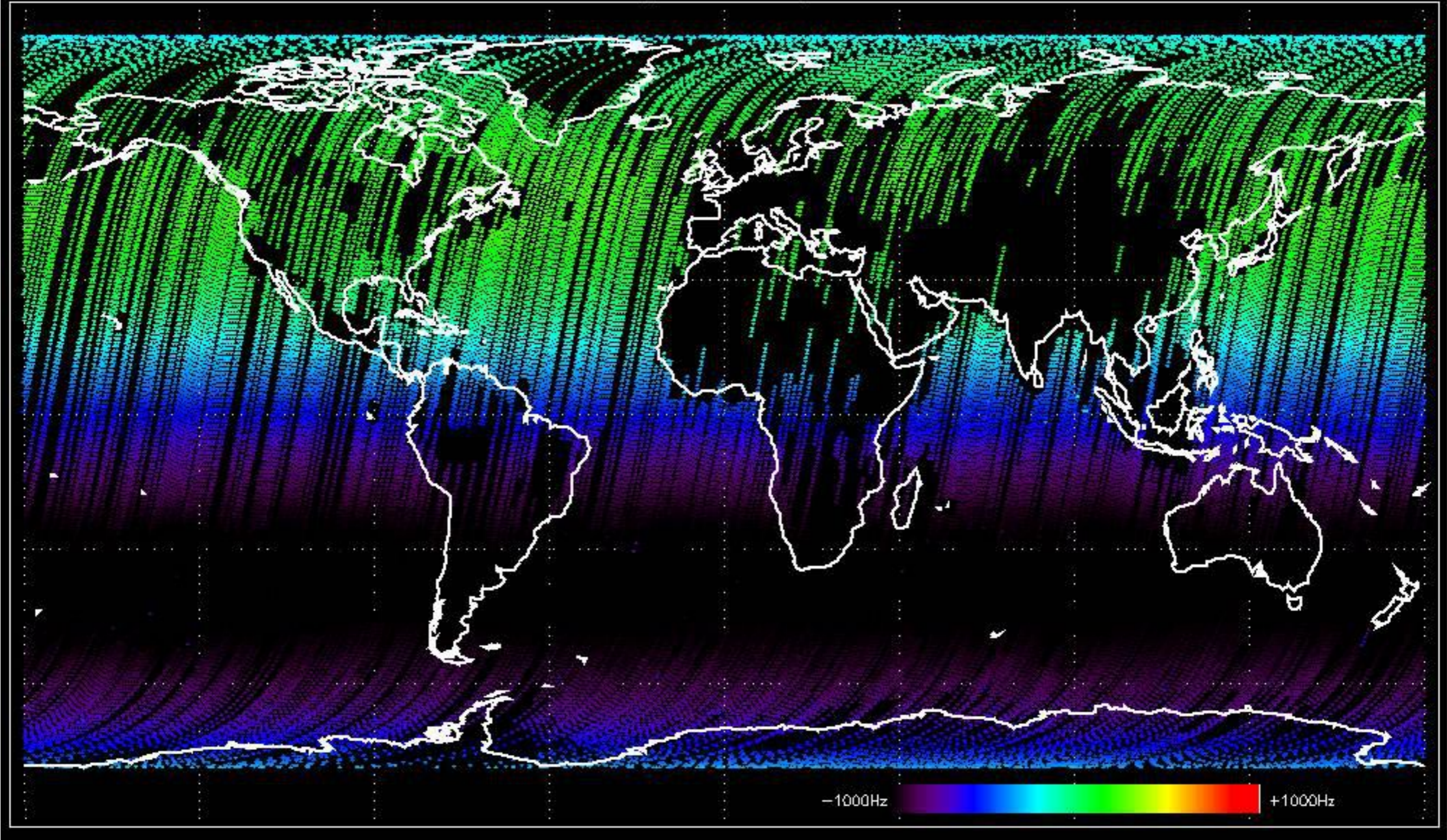
No anomalies observed.

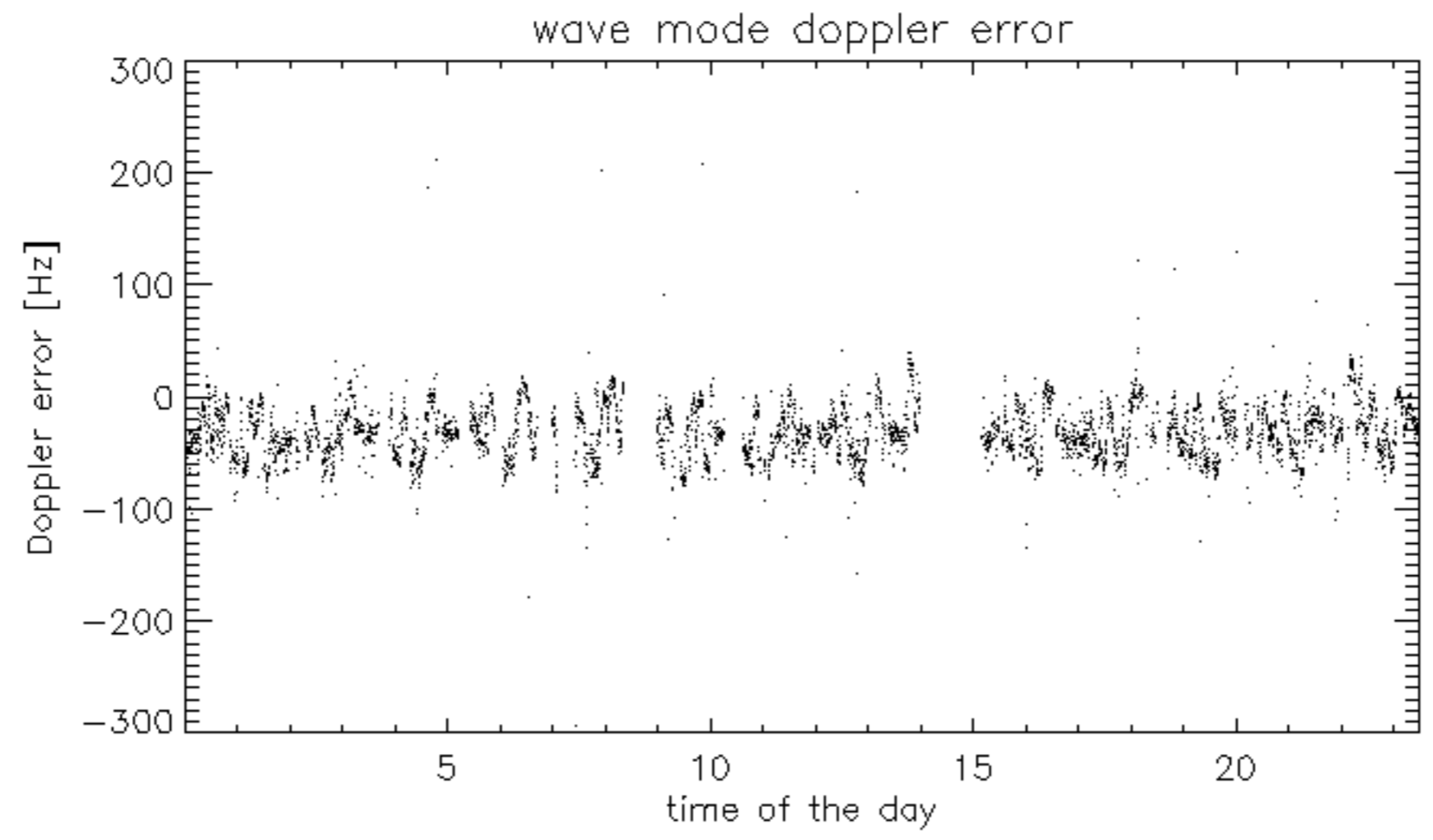
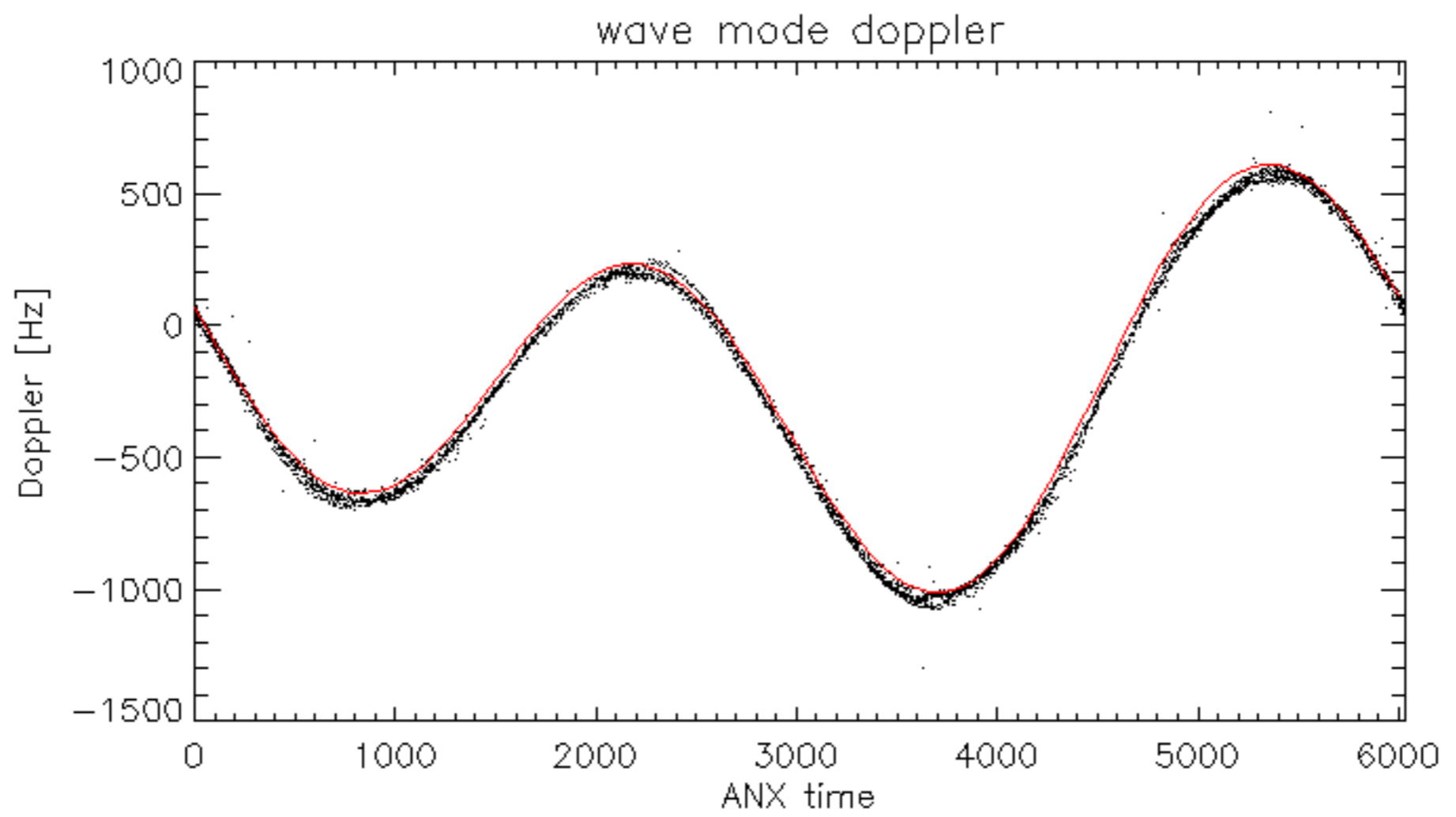


Doppler 'WVS' 'IS2' 'H/H'

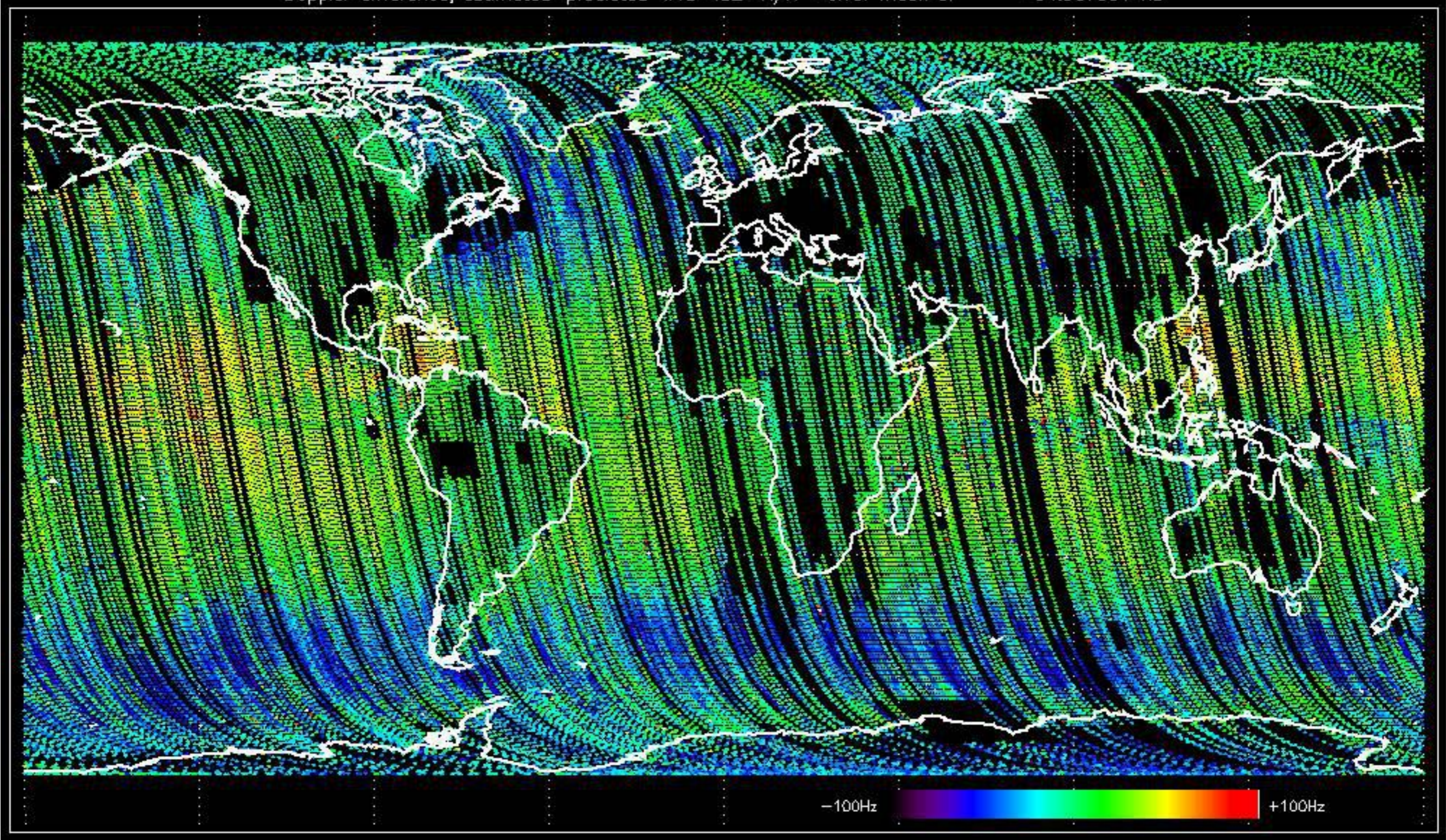


Doppler 'WVS' 'IS2' 'V/V'

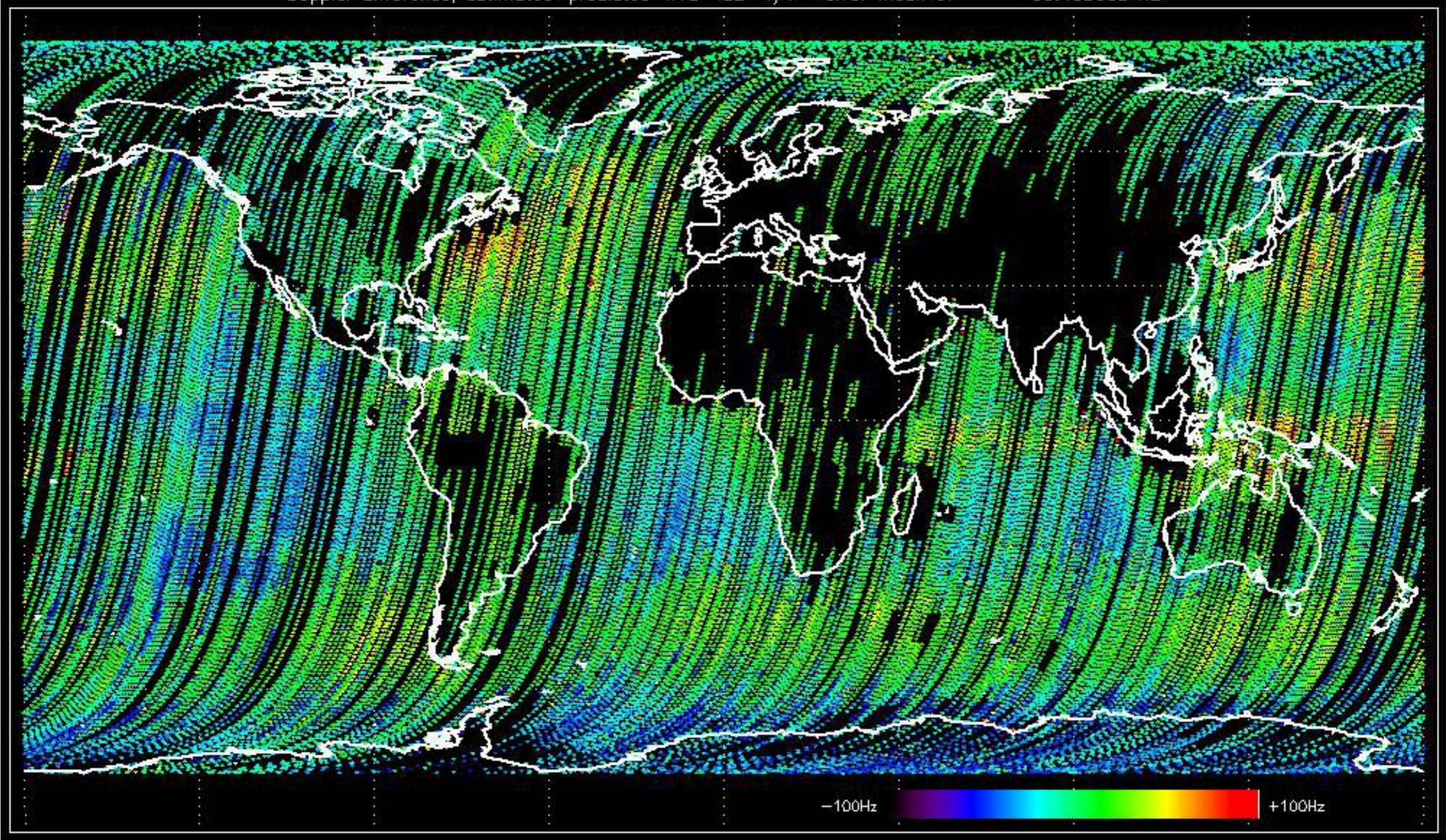




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of -34.907391 Hz

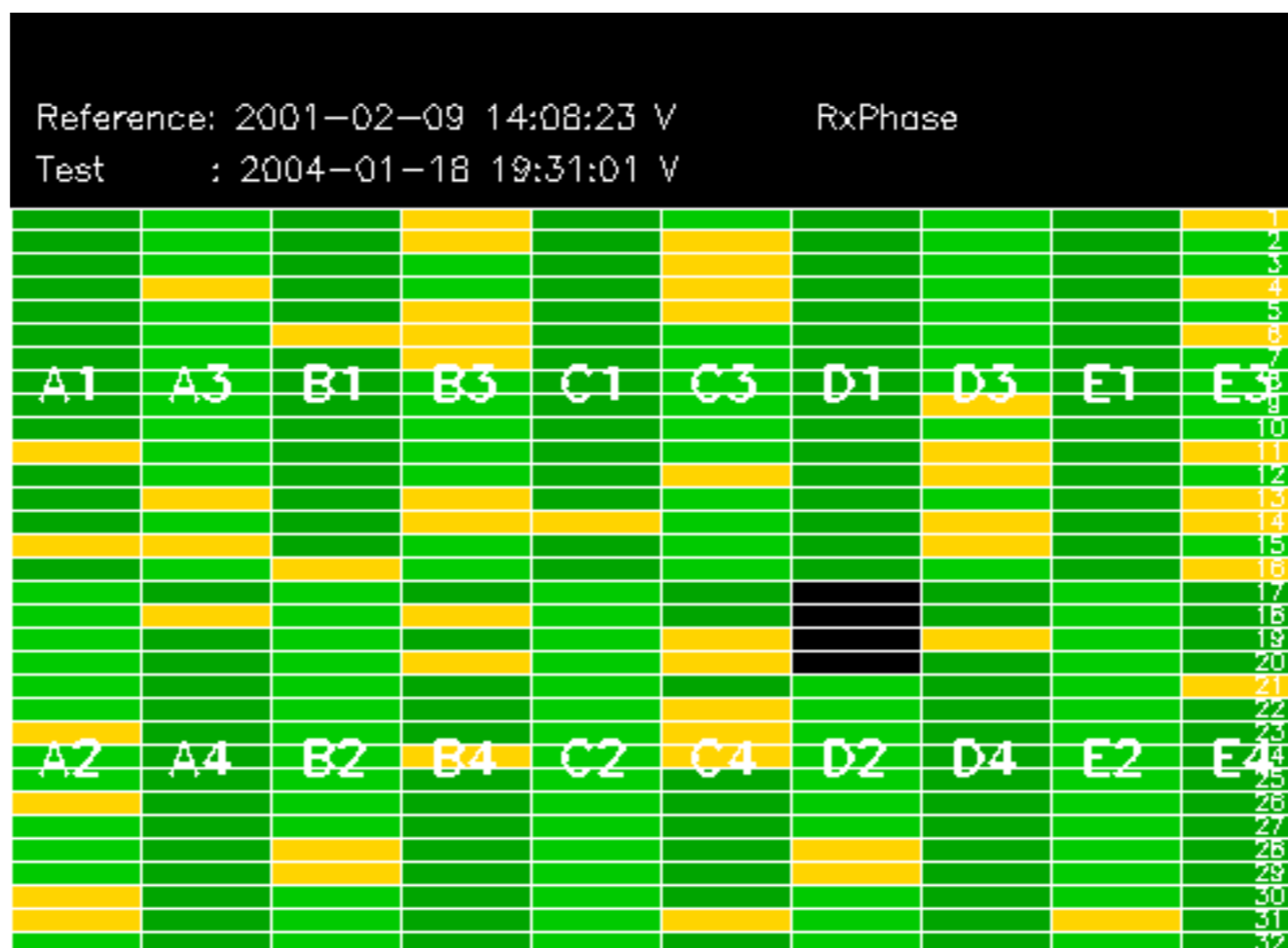


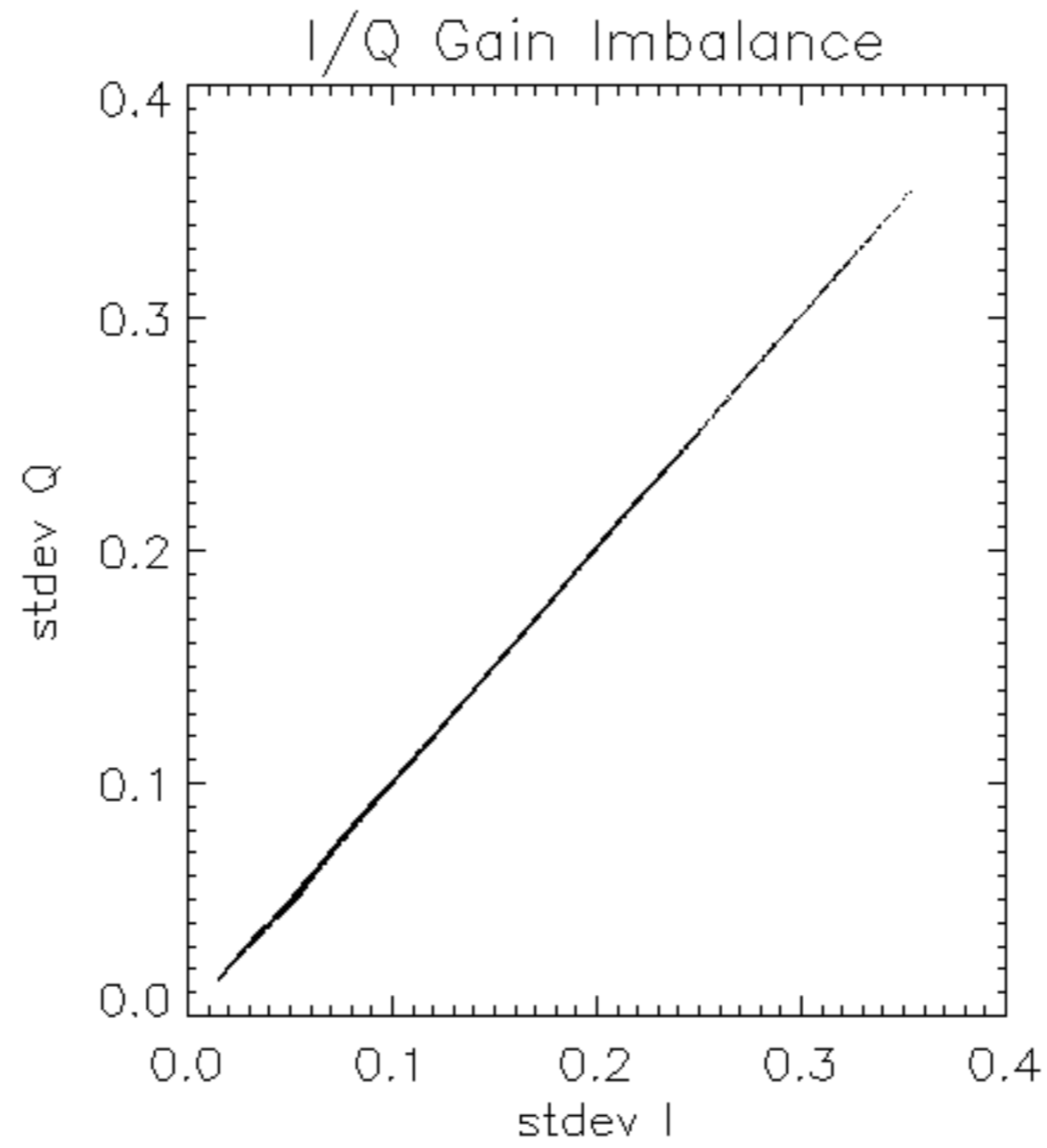
Doppler difference, estimated-predicted 'WVS' 'IS2' 'V/V' -error mean of -33.408608 Hz

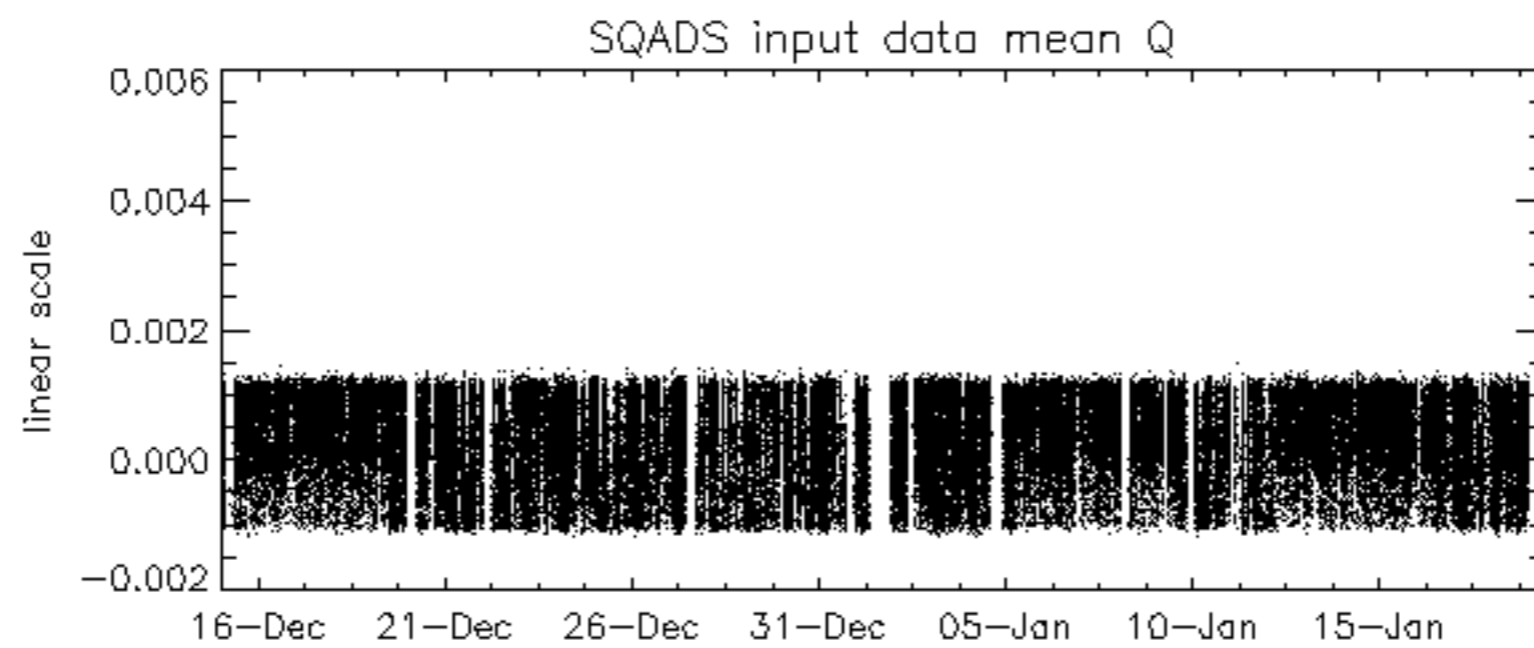
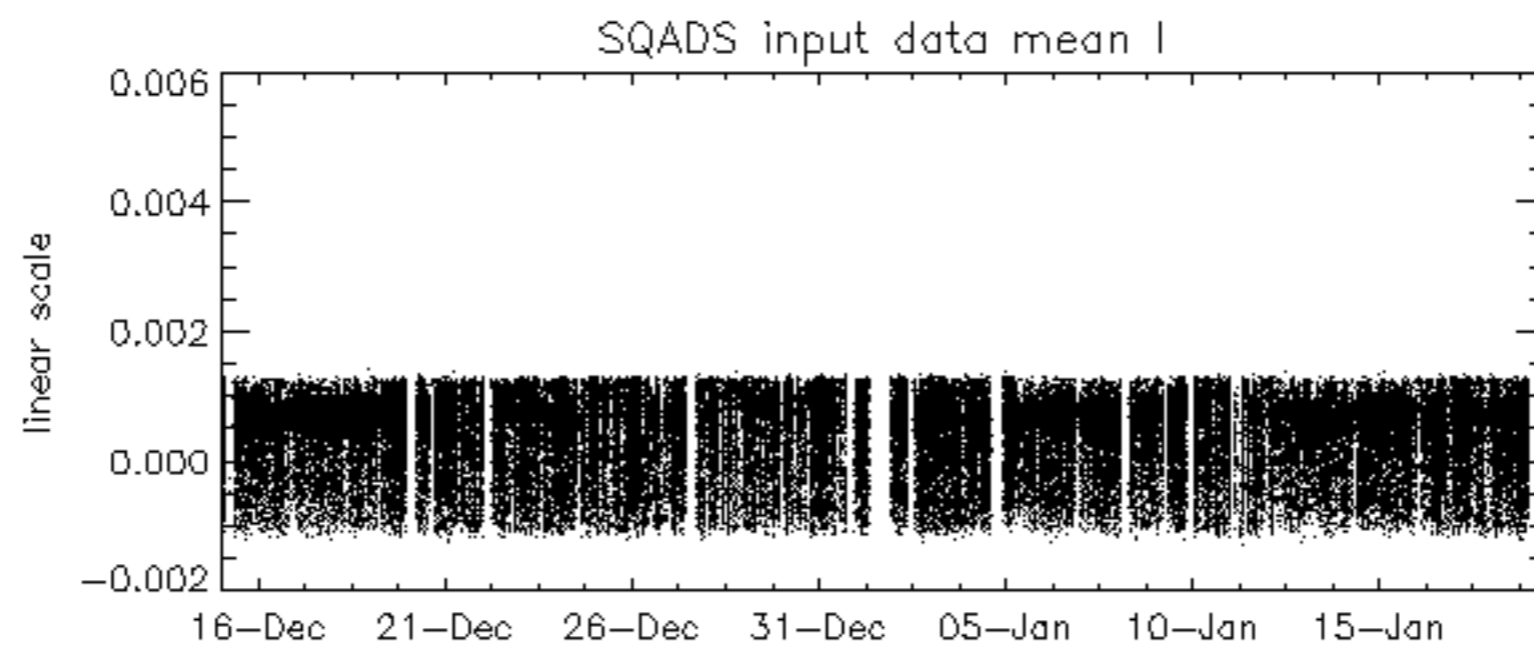
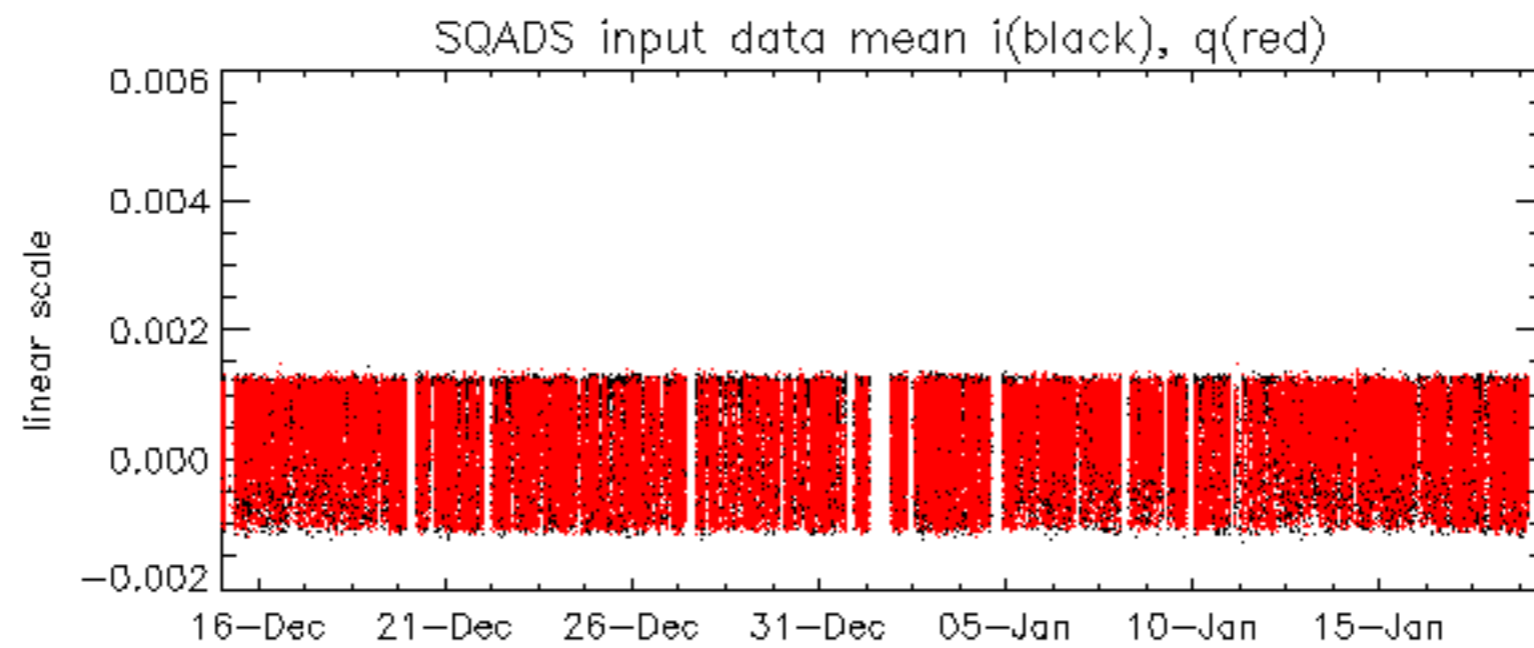


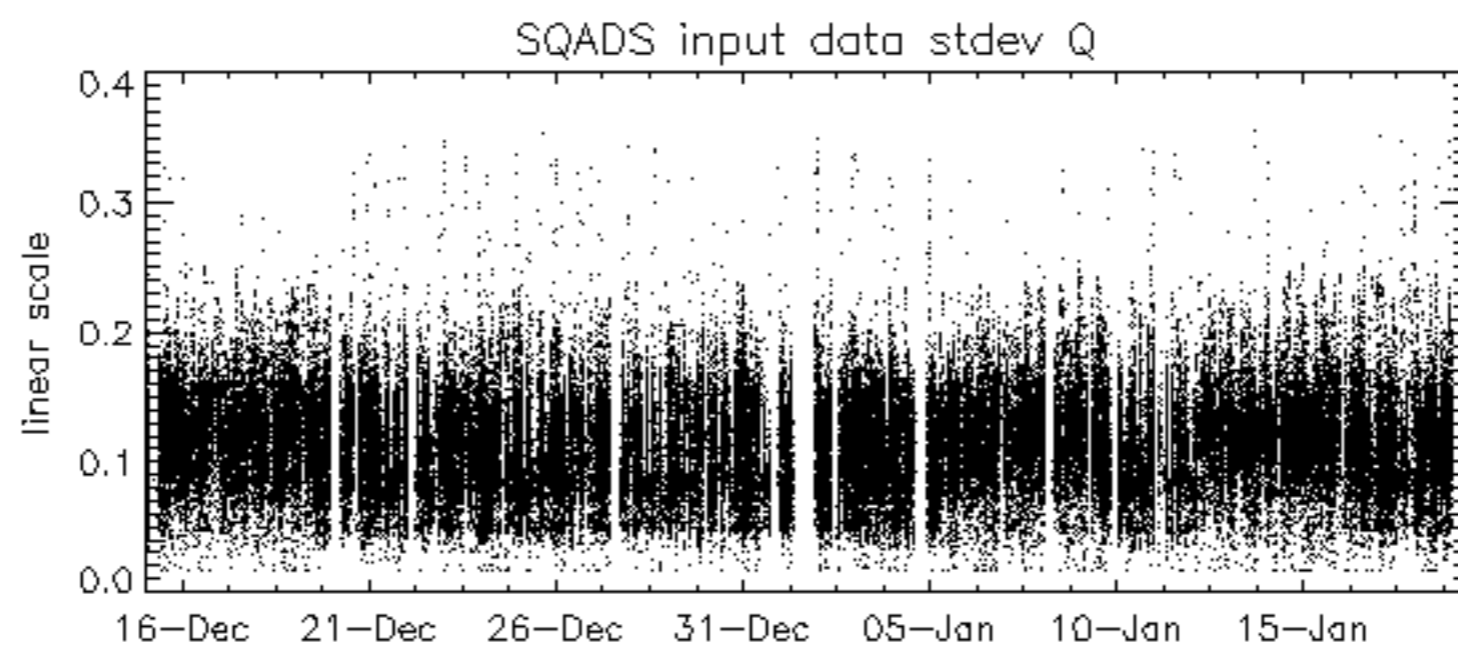
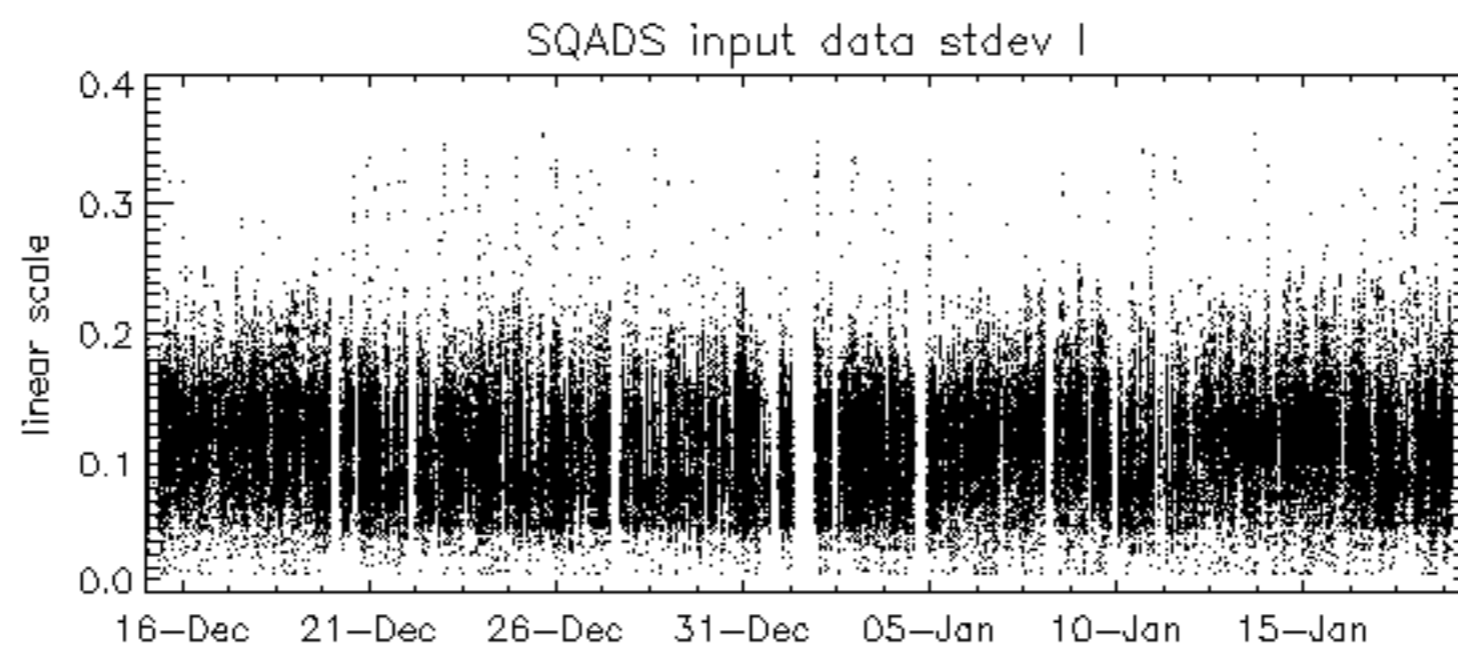
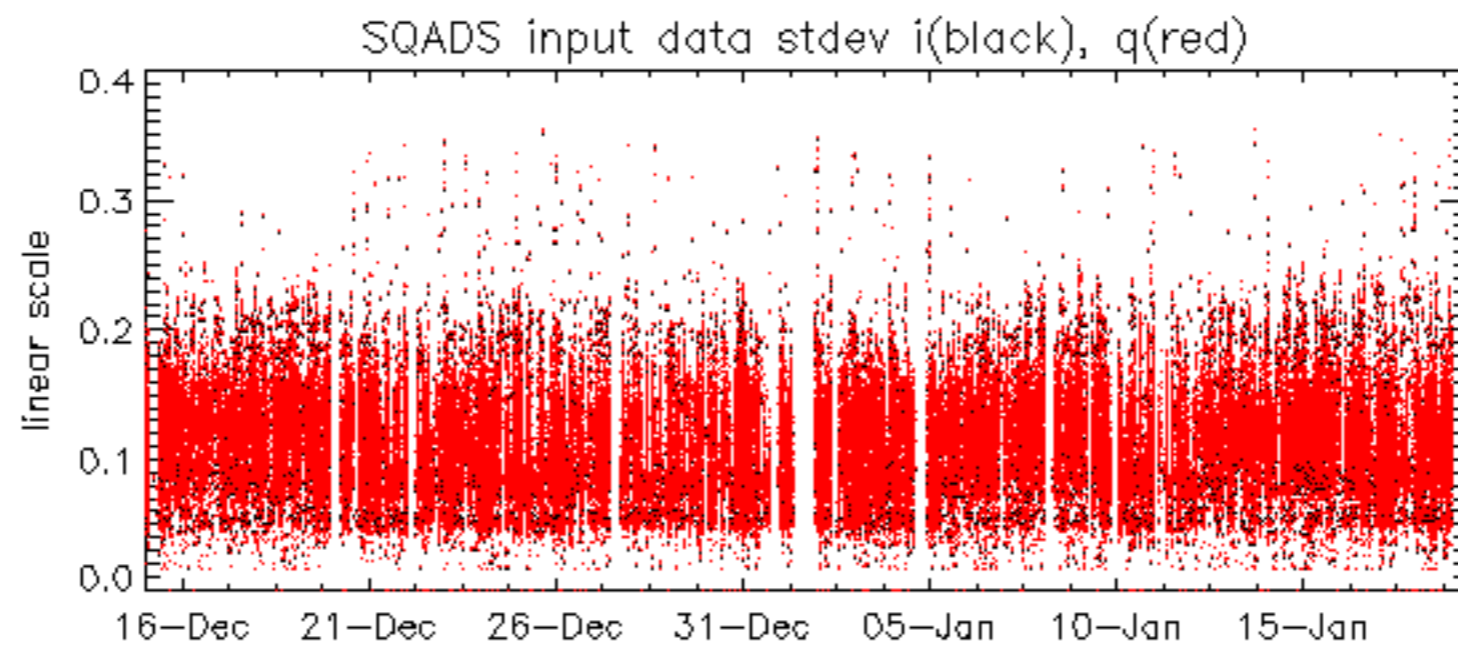
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