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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 browse products available.

2.3 - Data Analysis

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

3 - Module Stepping Mode

One MS products available on 09-JUL-2003:

- ASA_MS__OPNPDK20030709_190832_000000152018_00027_07095_0004.N1

The following results are based on the last available MS products.









No anomalies to be reported.

The drift in phase for TR module 3 on Tile B3 has decreased to a stable configuration as shown in the figure below.











Polarisation	Start Time
V	20030709 190832
H	20030708 193829

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

Analysis based on data available since 09-JUL-2003 till 10-JUL-2003 07:27:02 UTC

No anomalies observed on internal calibration pulses.

Very stable evolution of the calibration pulses over the last 35 days.

4.1 - Daily statistics

row	stat	AveP1	AveP2	AveP3
8	mean	-2.43428	-22.5067	-8.09978
	stdev	0.0147724	0.0685380	0.00254003
24	mean	-5.15821	-21.2132	-8.09978
	stdev	0.0136743	0.0616719	0.00254003



4.2 - Cyclic statistics

row	stat	AveP1	AveP2	AveP3
8	mean	-2.44525	-22.5389	-8.10660
	stdev	0.0127737	0.0684623	0.00305160
24	mean	-5.15779	-21.1988	-8.10660
	stdev	0.0131133	0.0570151	0.00305160



4.3 - cal pulses monitoring (all row)



5 - RAW data statistics

Analysis based on data available since 09-JUL-2003 till 10-JUL-2003 07:27:02 UTC

Nominal level of I and Q level 0 statistics.

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
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MEAN I	mean	0.000461711
	stdev	3.04268e-07
MEAN Q	mean	0.000298259
	stdev	3.12912e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.112792
	stdev	0.00158459
STDEV Q	mean	0.112894
	stdev	0.00161446



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

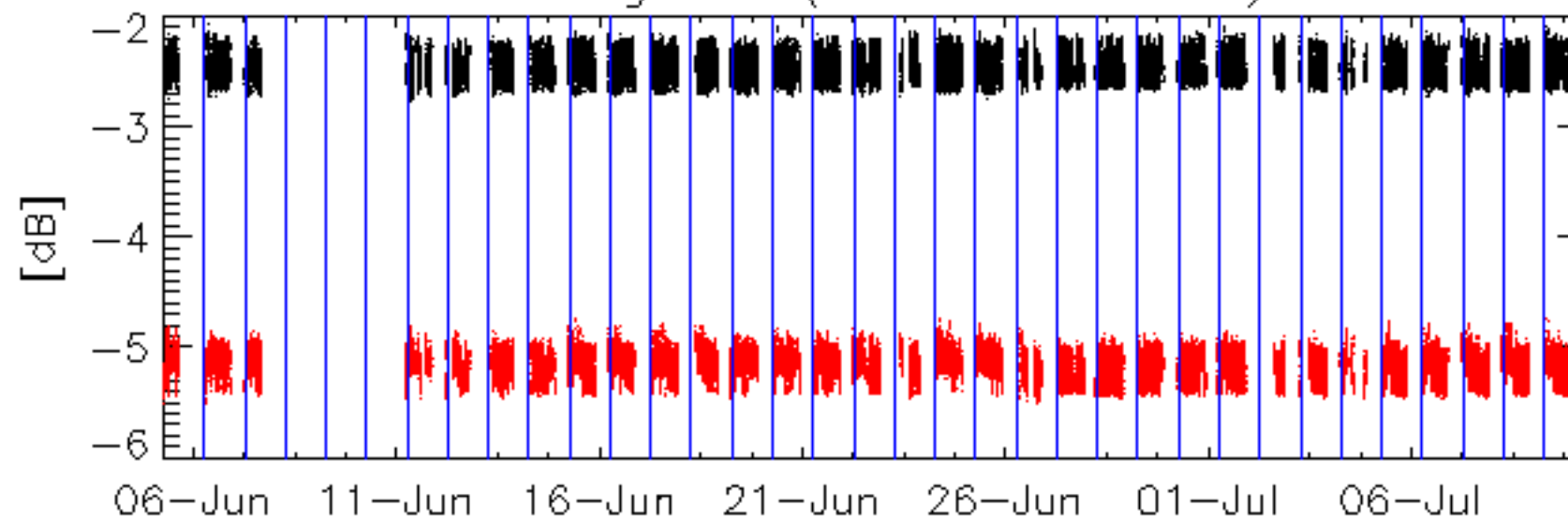
Descending

6.3 - Doppler evolution versus ANX

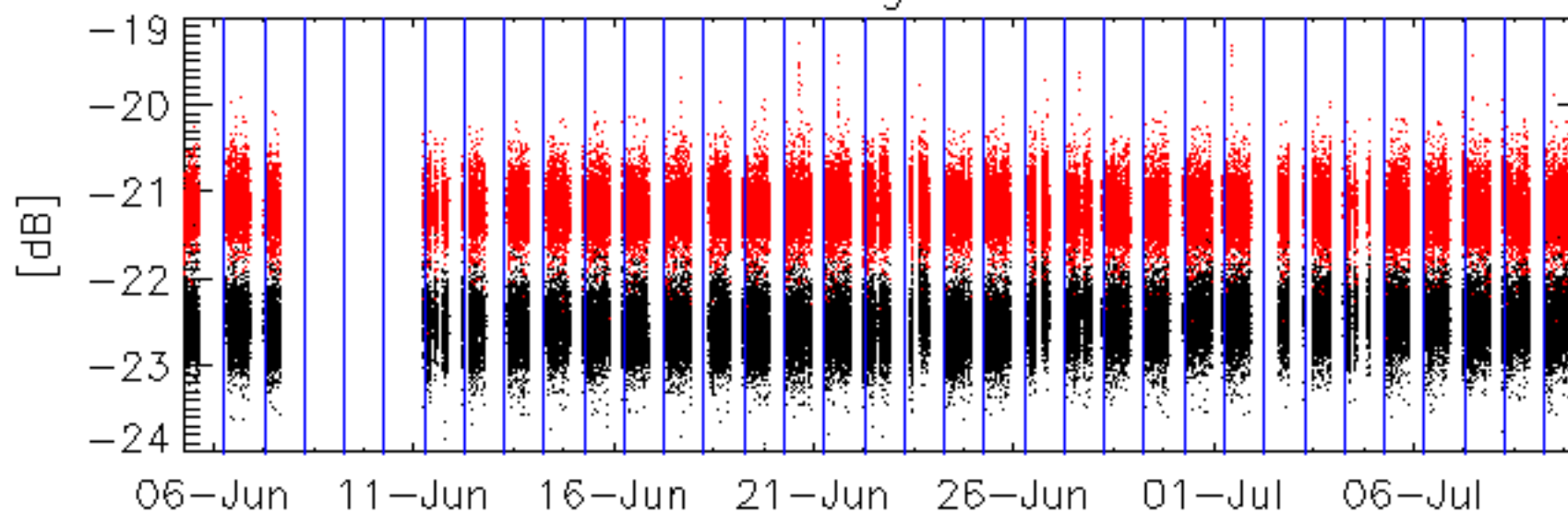
Evolution Doppler error versus ANX



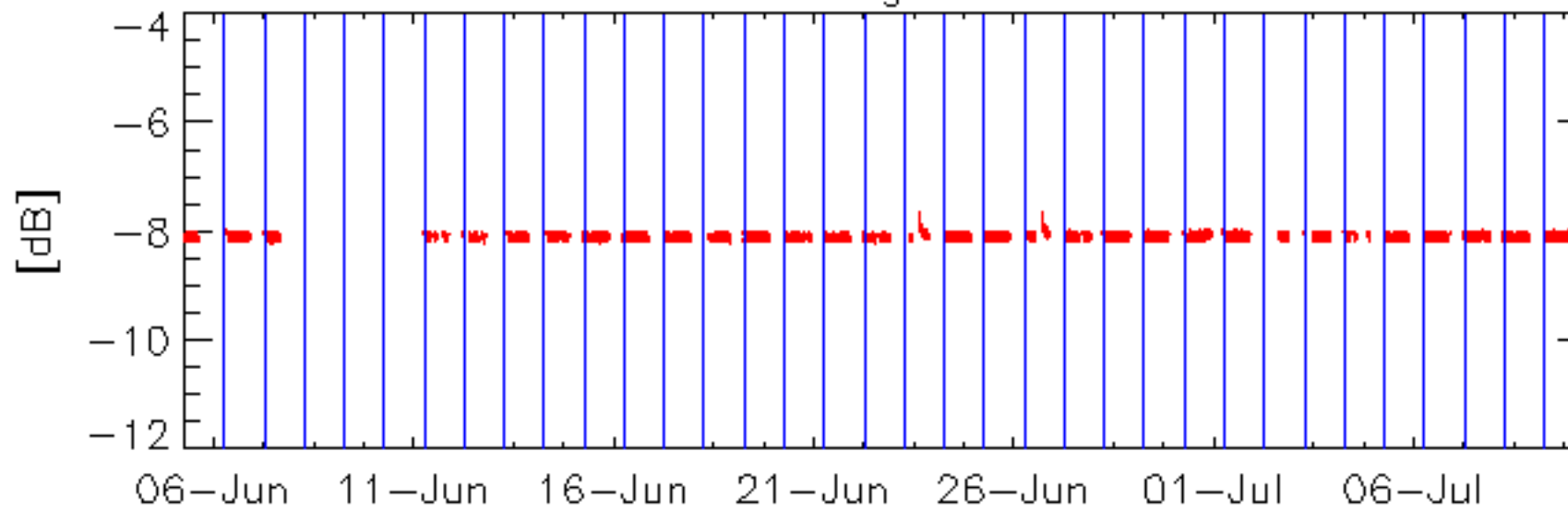
Average P1 (row 8 & row 24)

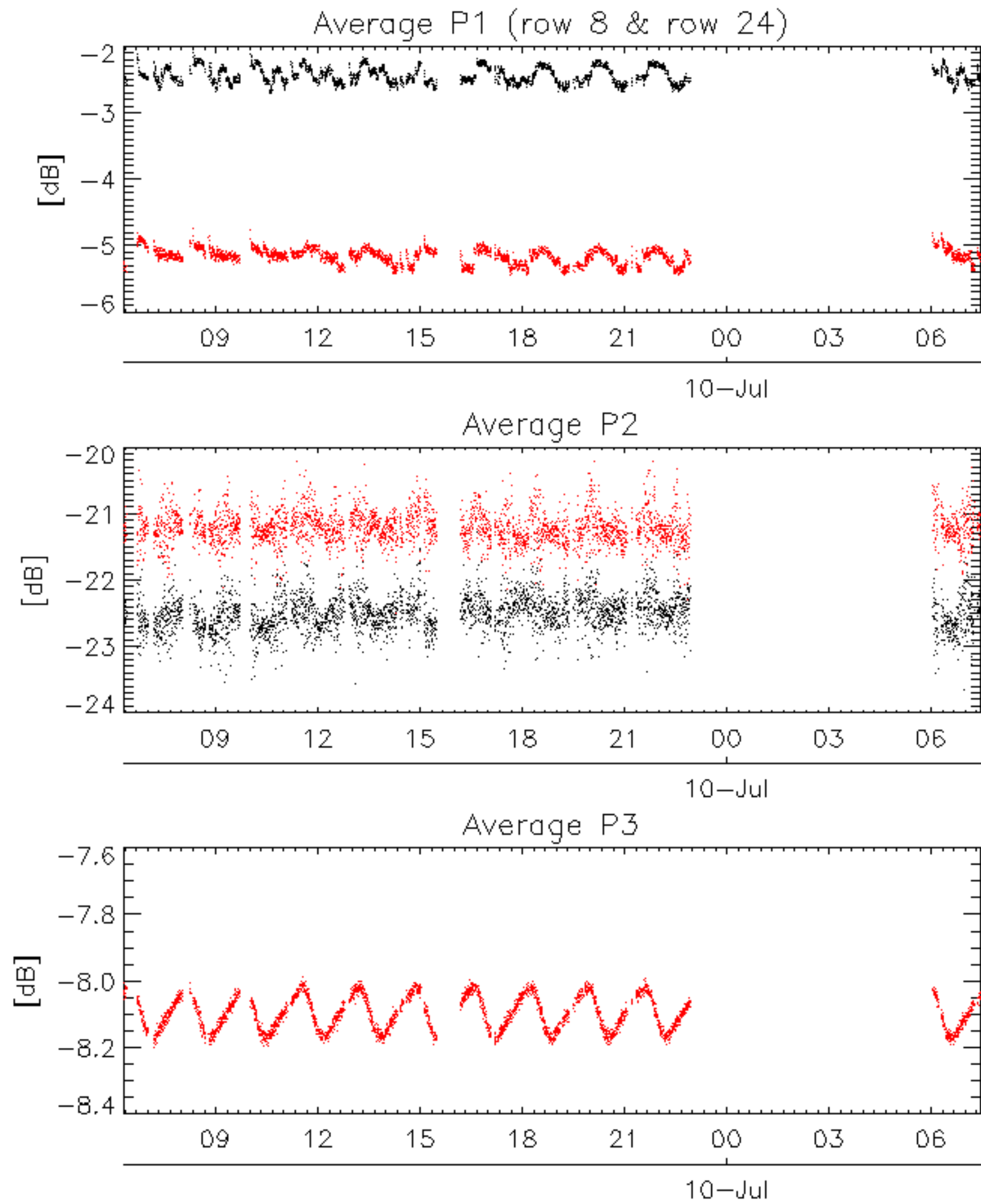


Average P2



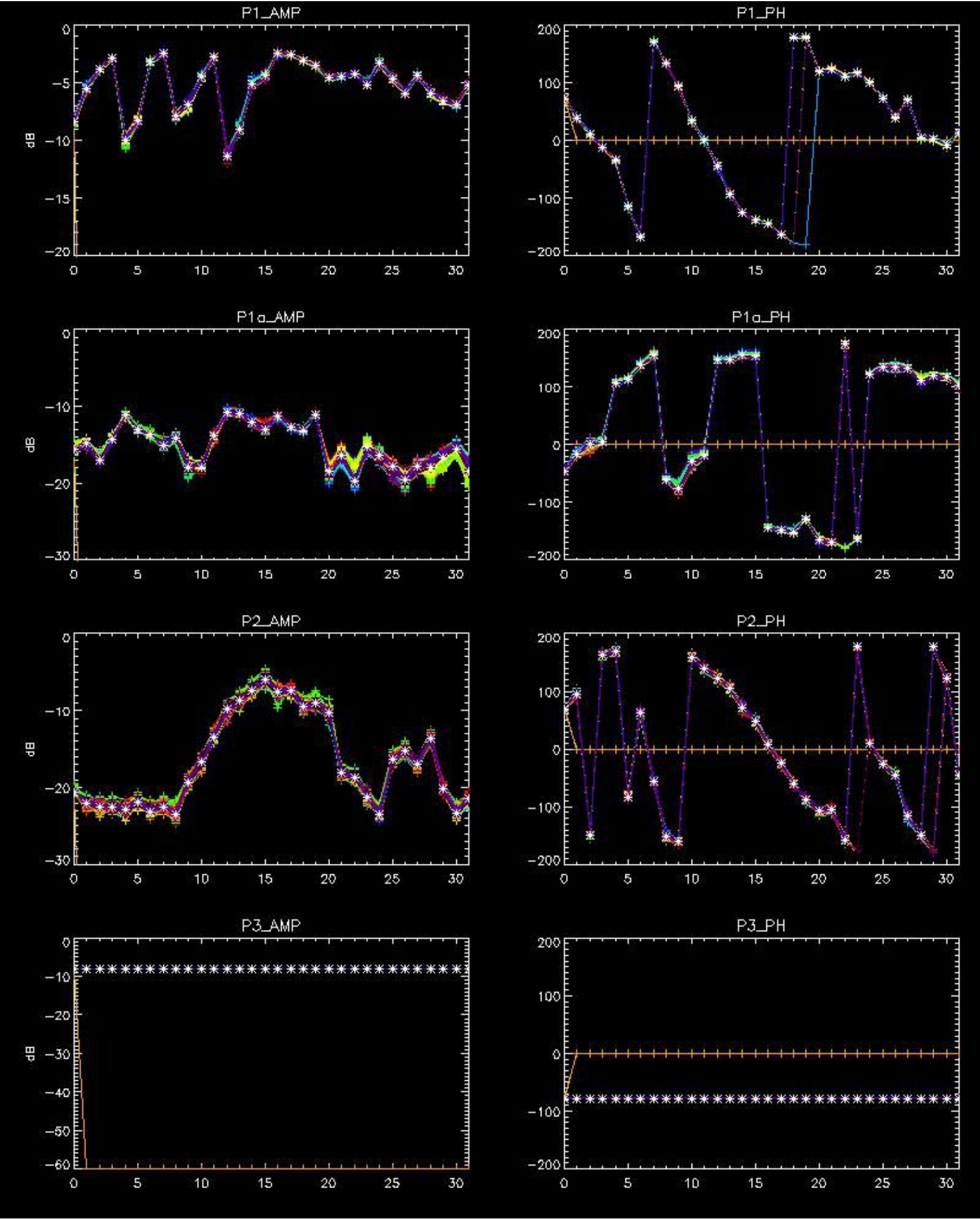
Average P3





No browse products available.

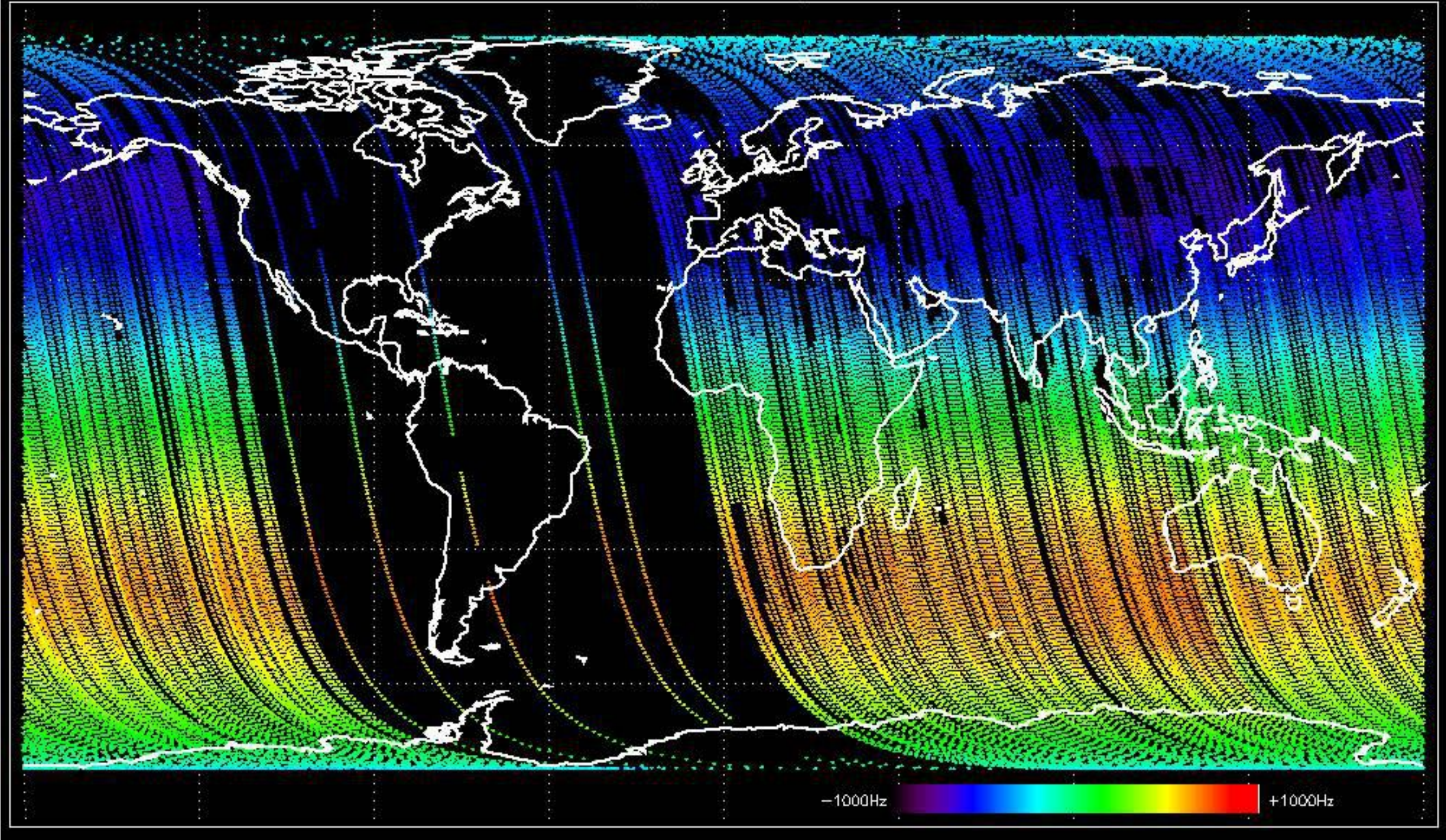
Analysis based on data available since 09-JUL-2003 till 10-JUL-2003 07:27:02 UTC
No anomalies observed on internal calibration pulses.
Very stable evolution of the calibration pulses over the last 35 days.



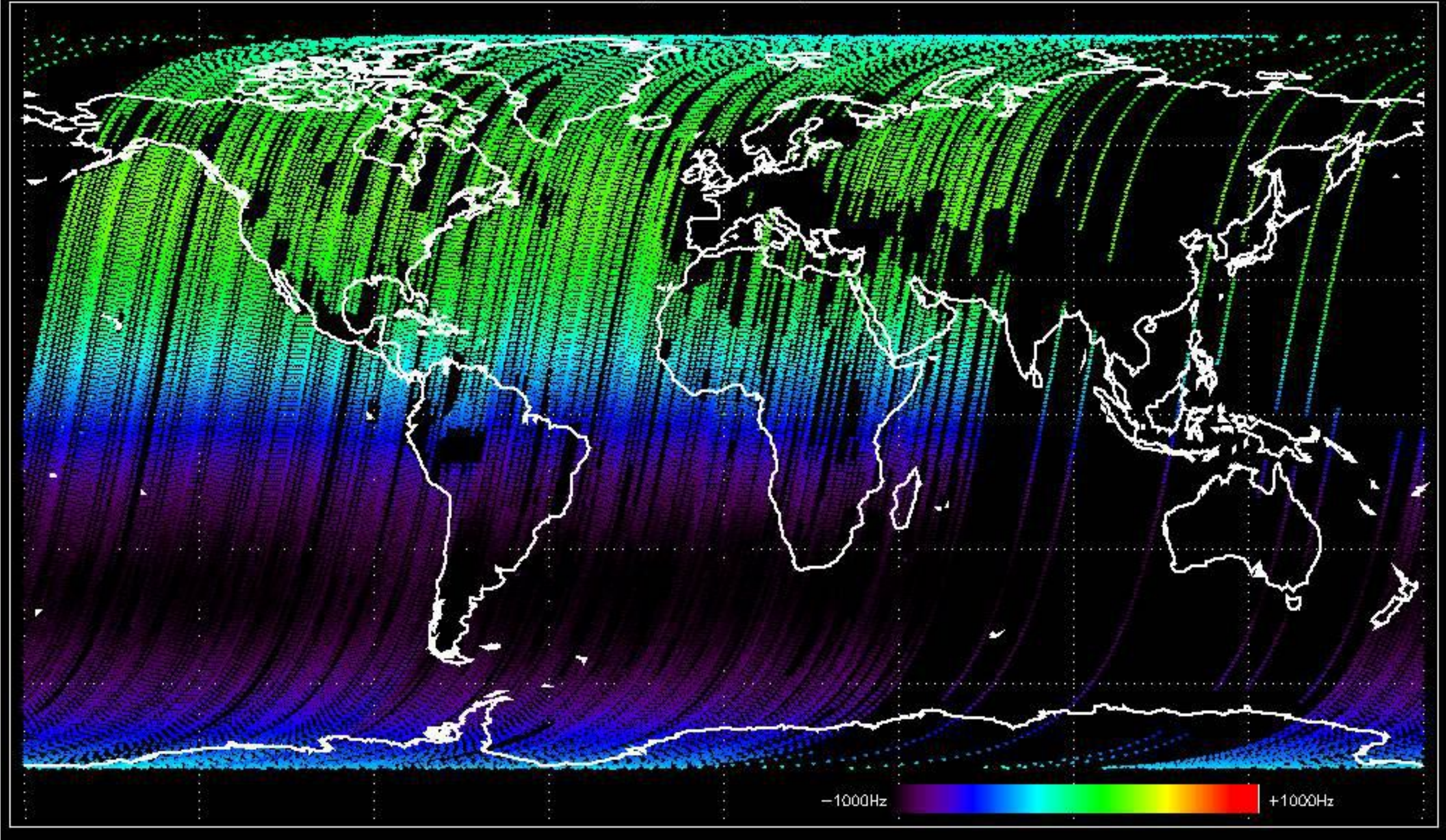
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

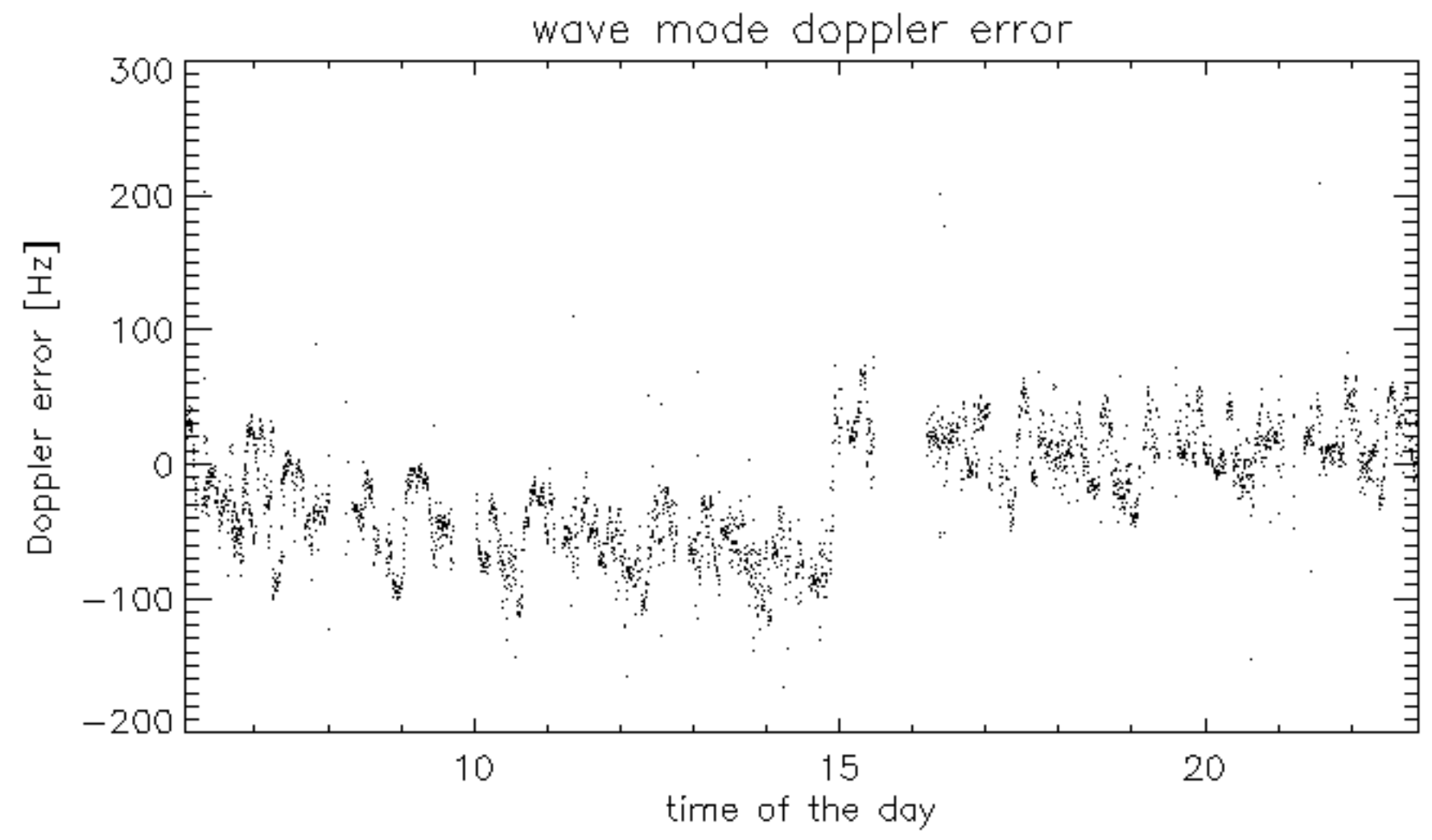
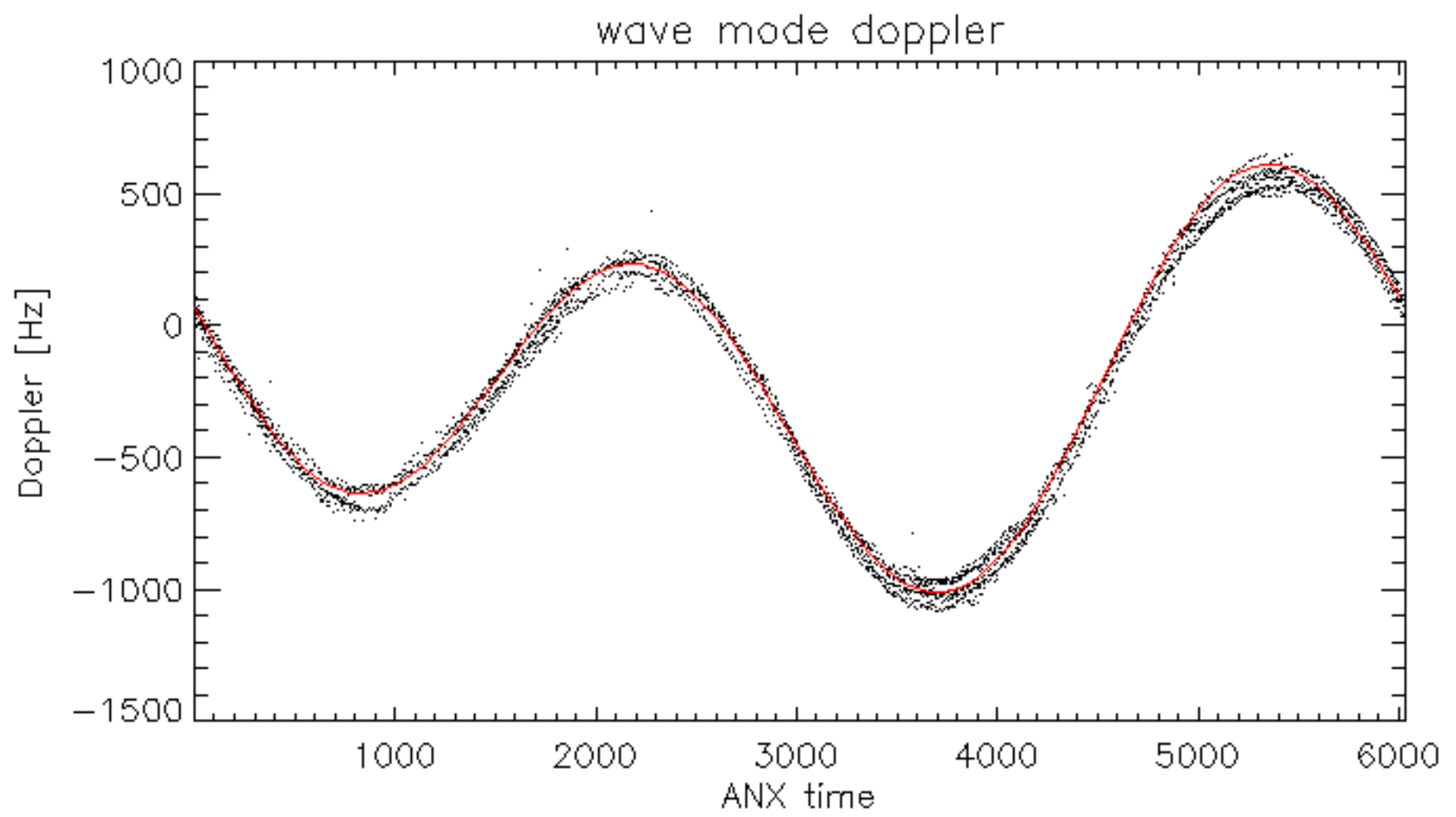
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 60 days

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

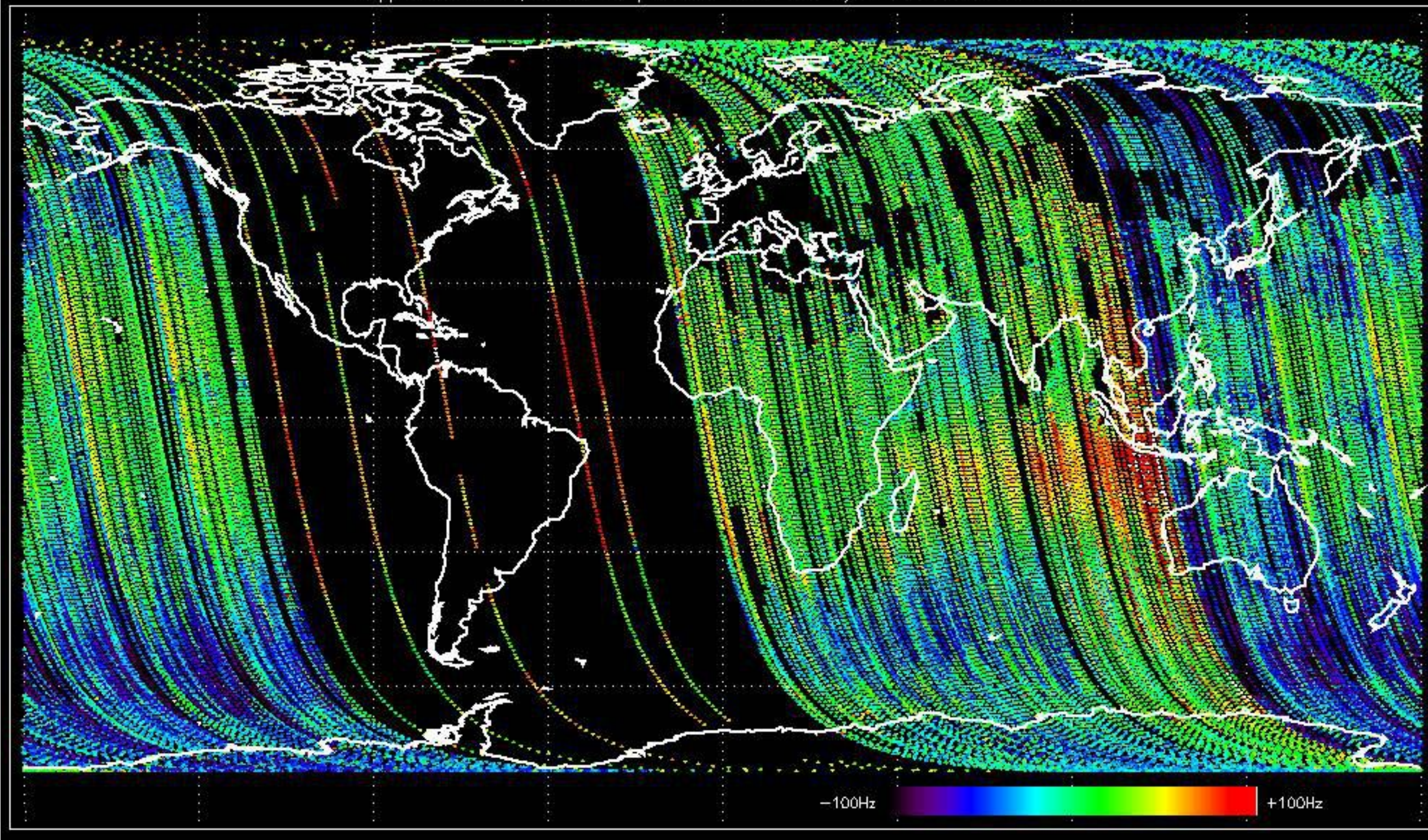


Doppler 'WVS' 'IS2' 'V/V'

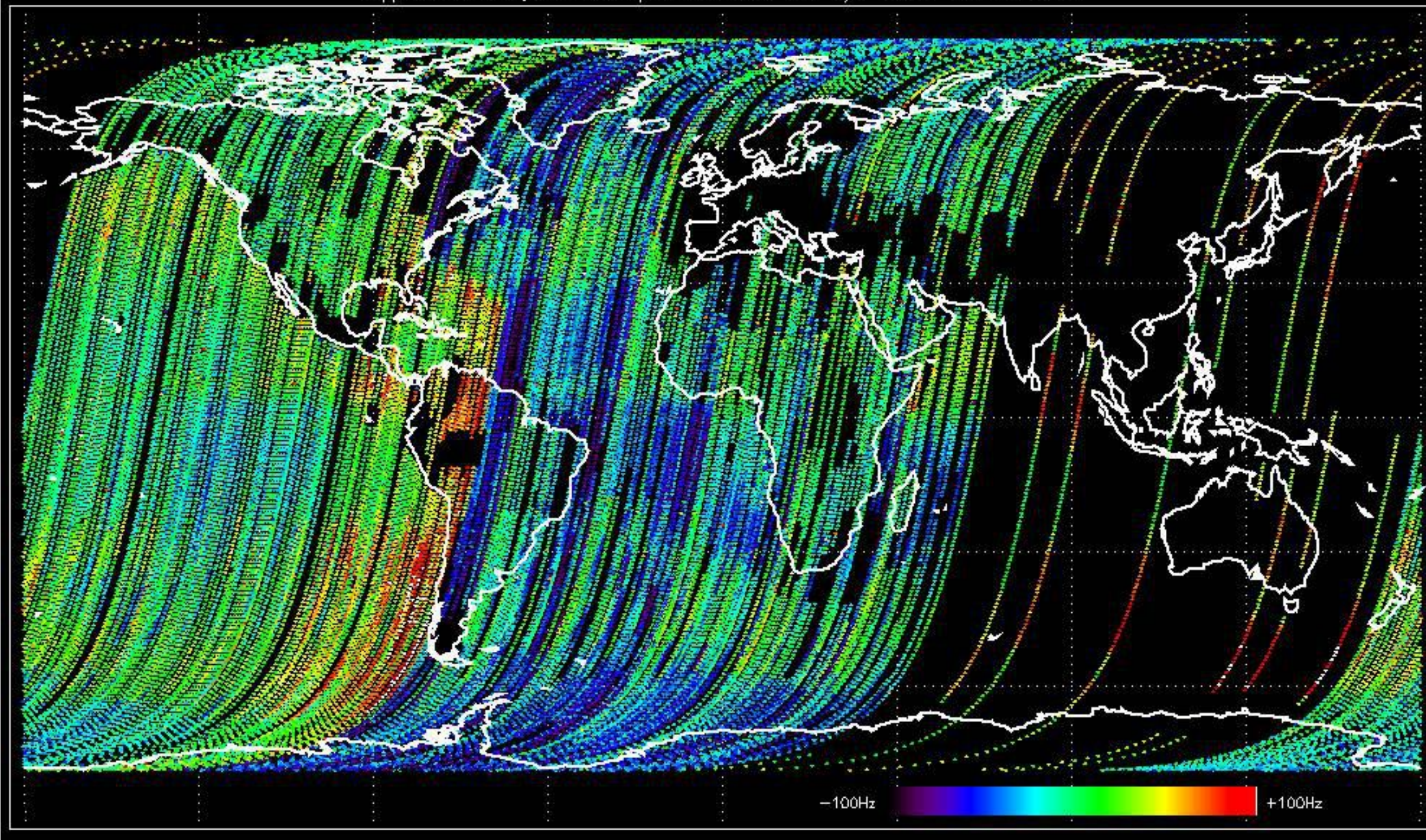




Doppler difference, estimated-predicted 'WVS' 'IS2' 'H/H' -error mean of 53 Hz



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



One MS products available on 09-JUL-2003:

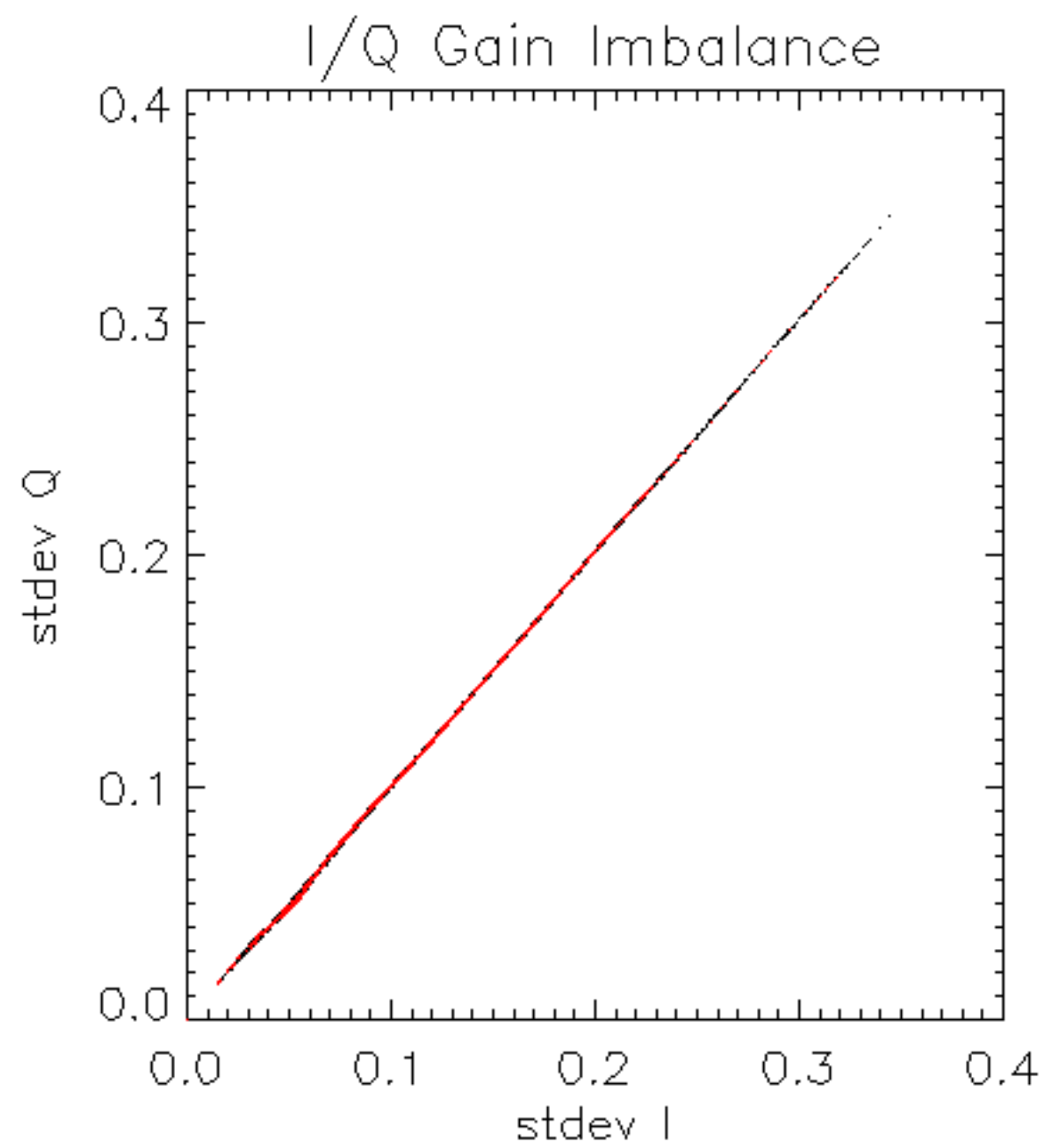
- ASA_MS__0PNPDK20030709_190832_000000152018_00027_07095_0004.N1

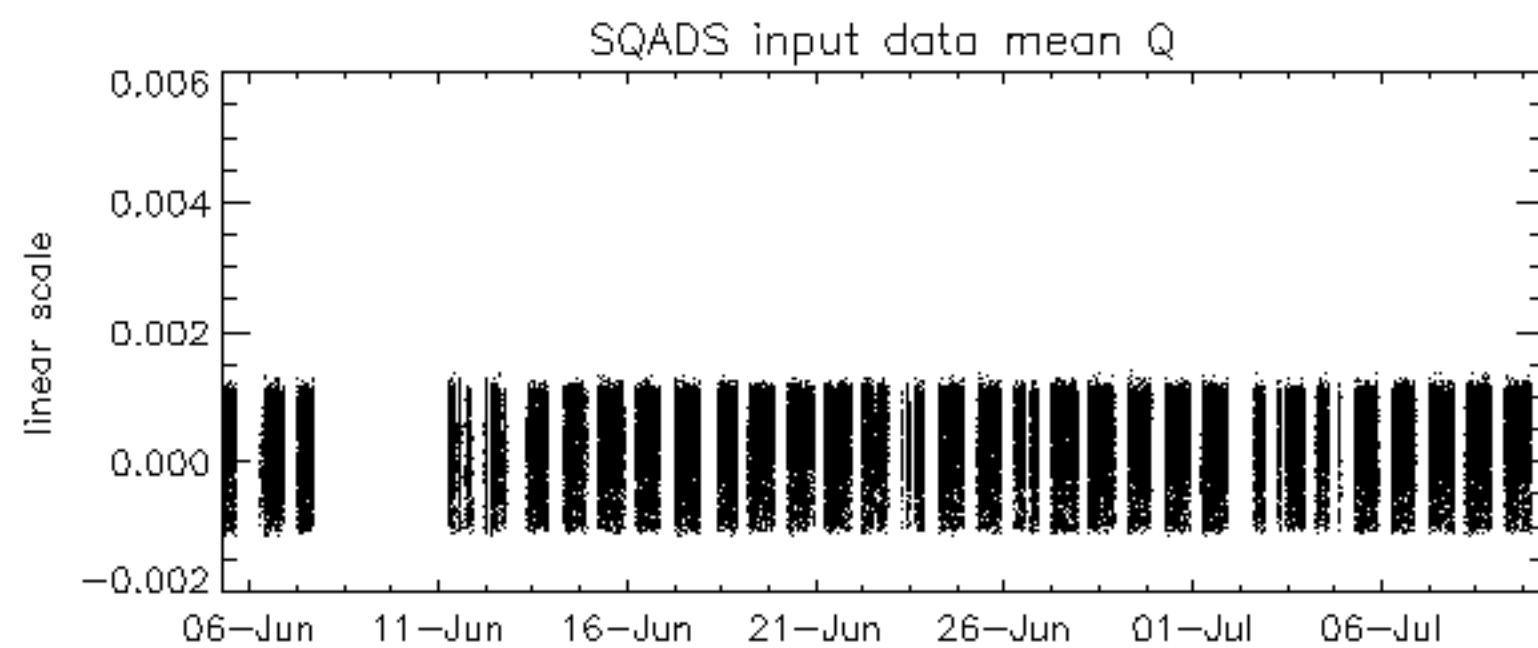
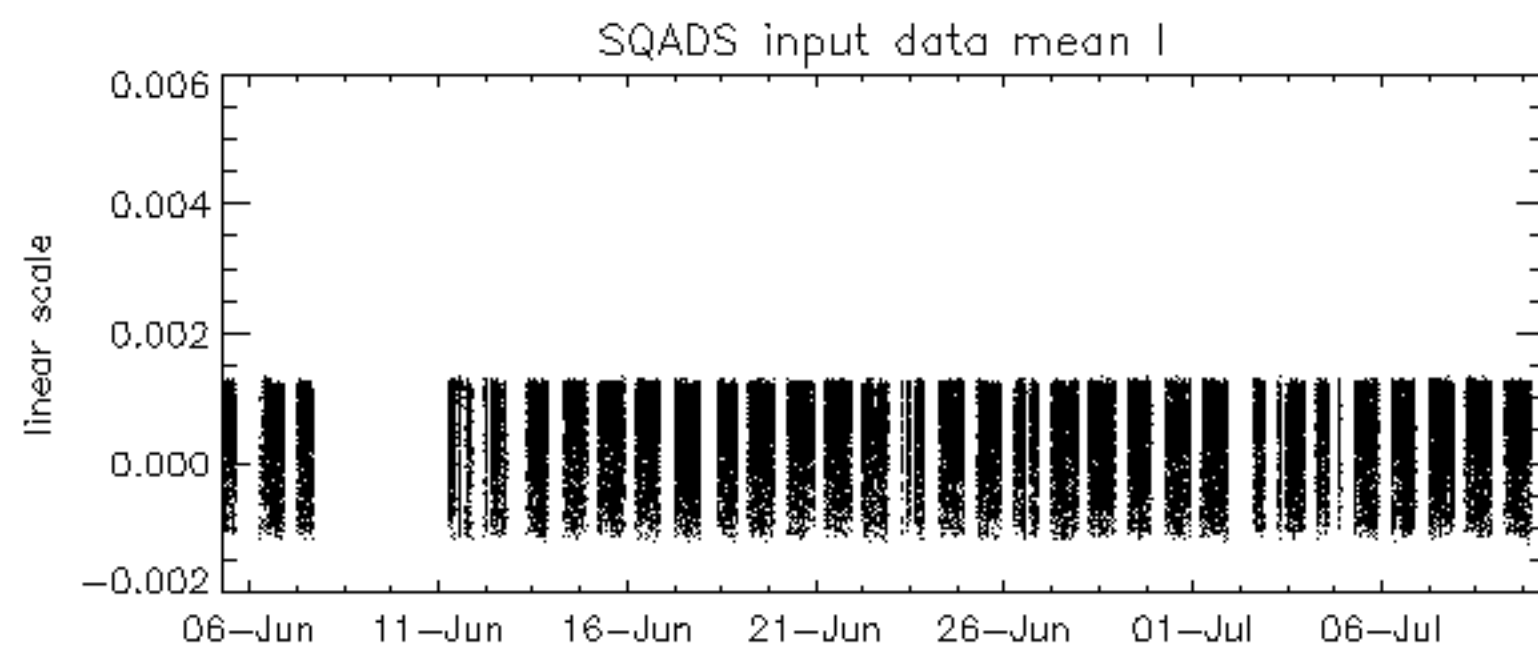
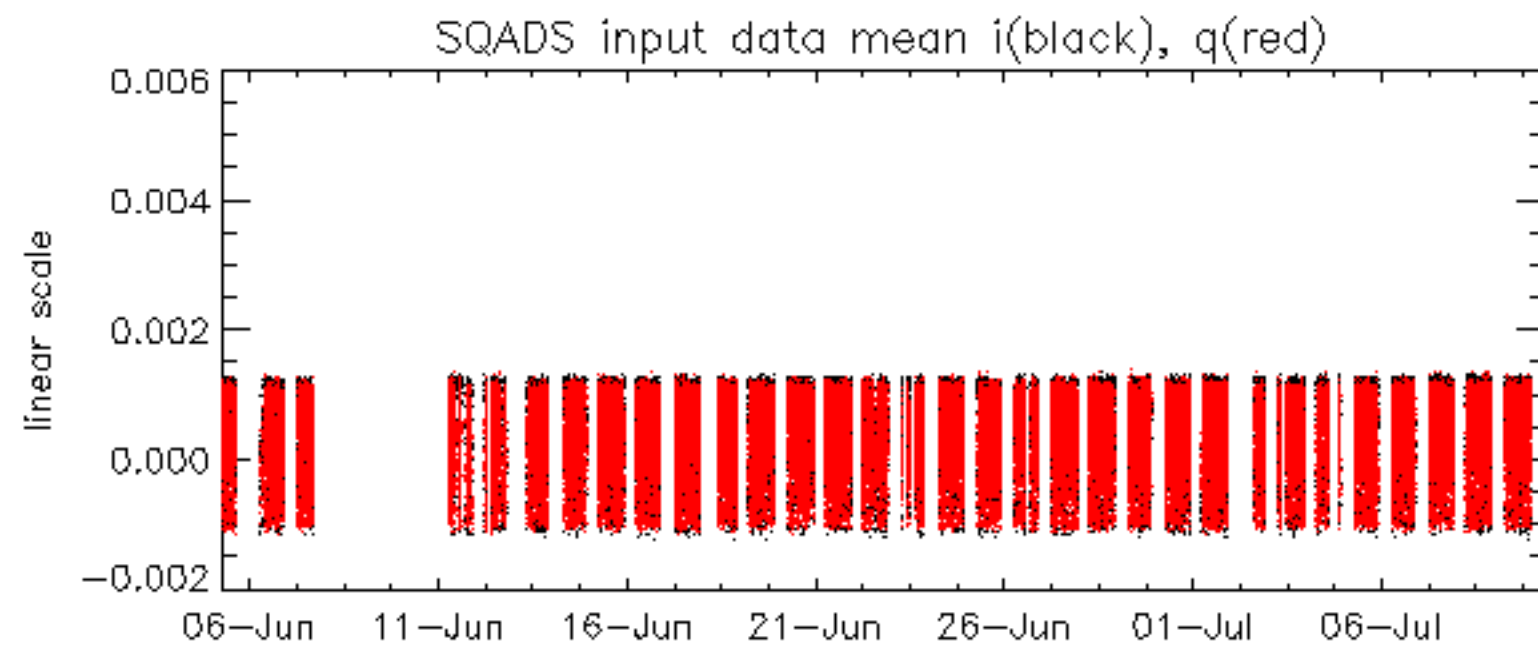
The following results are based on the last available MS products.

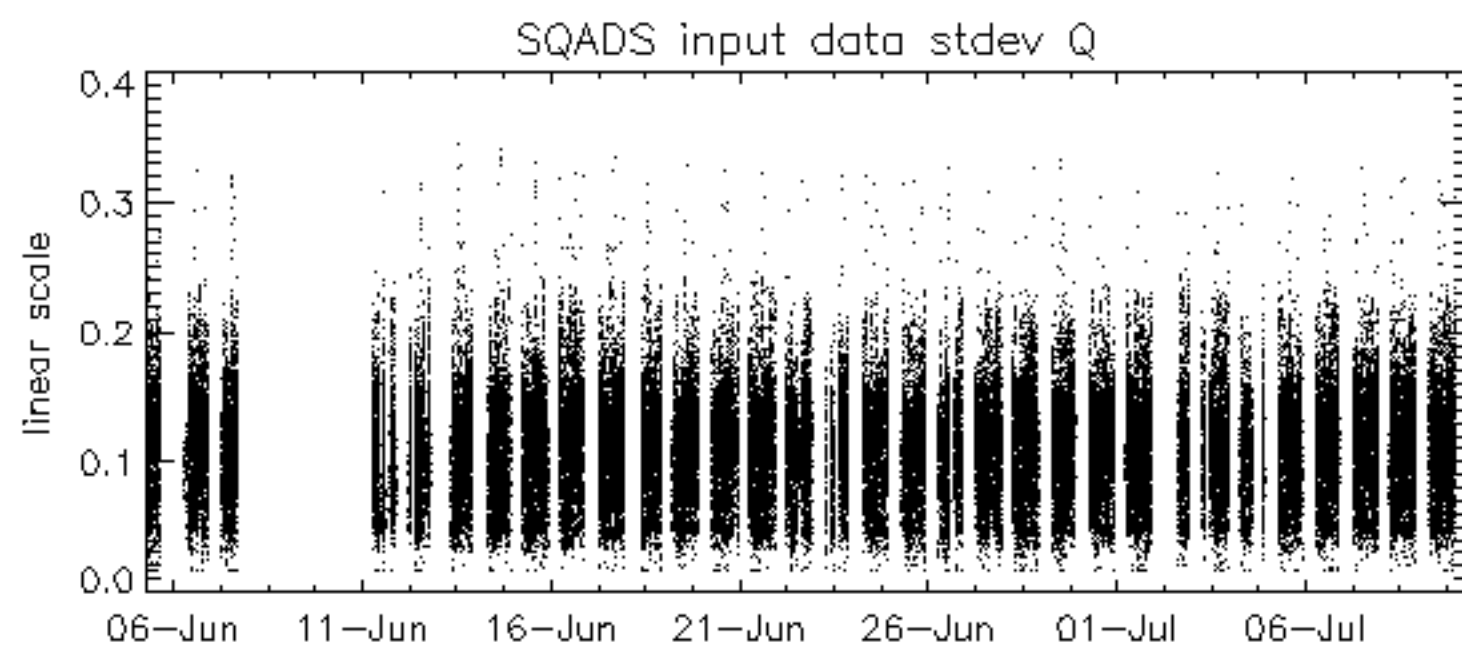
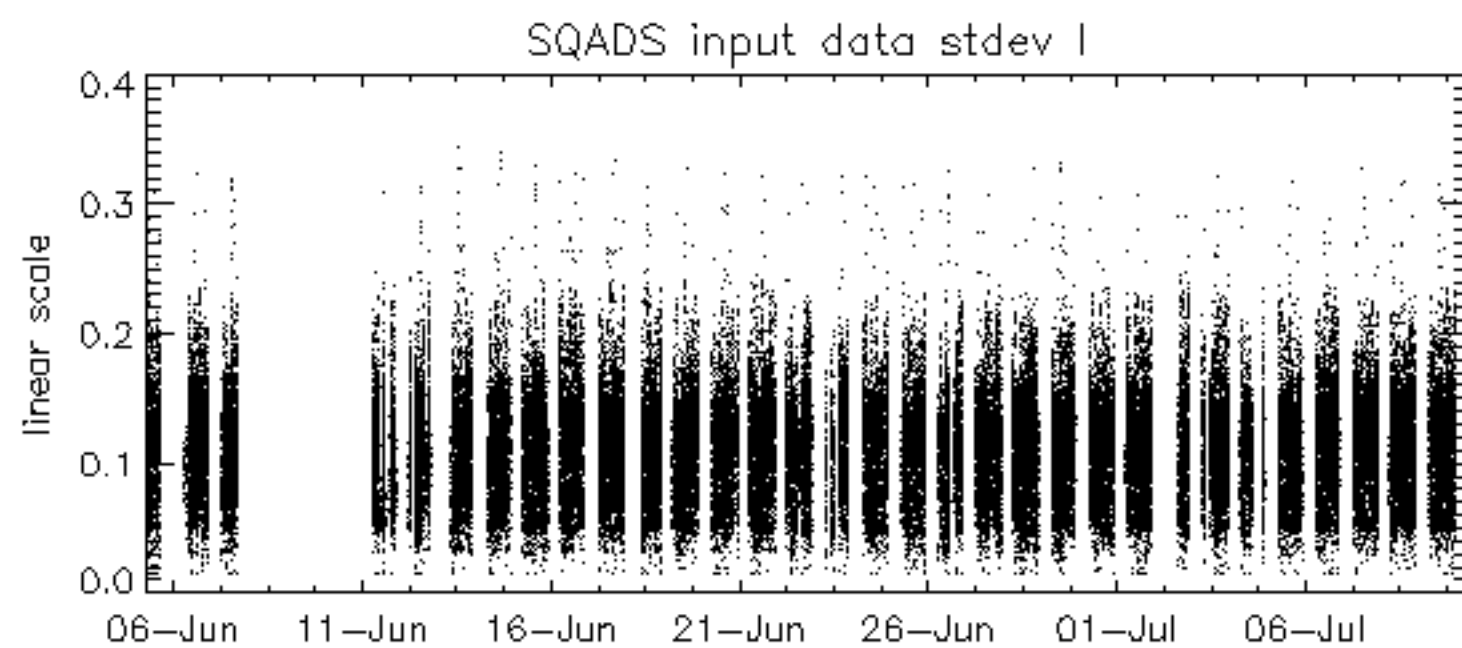
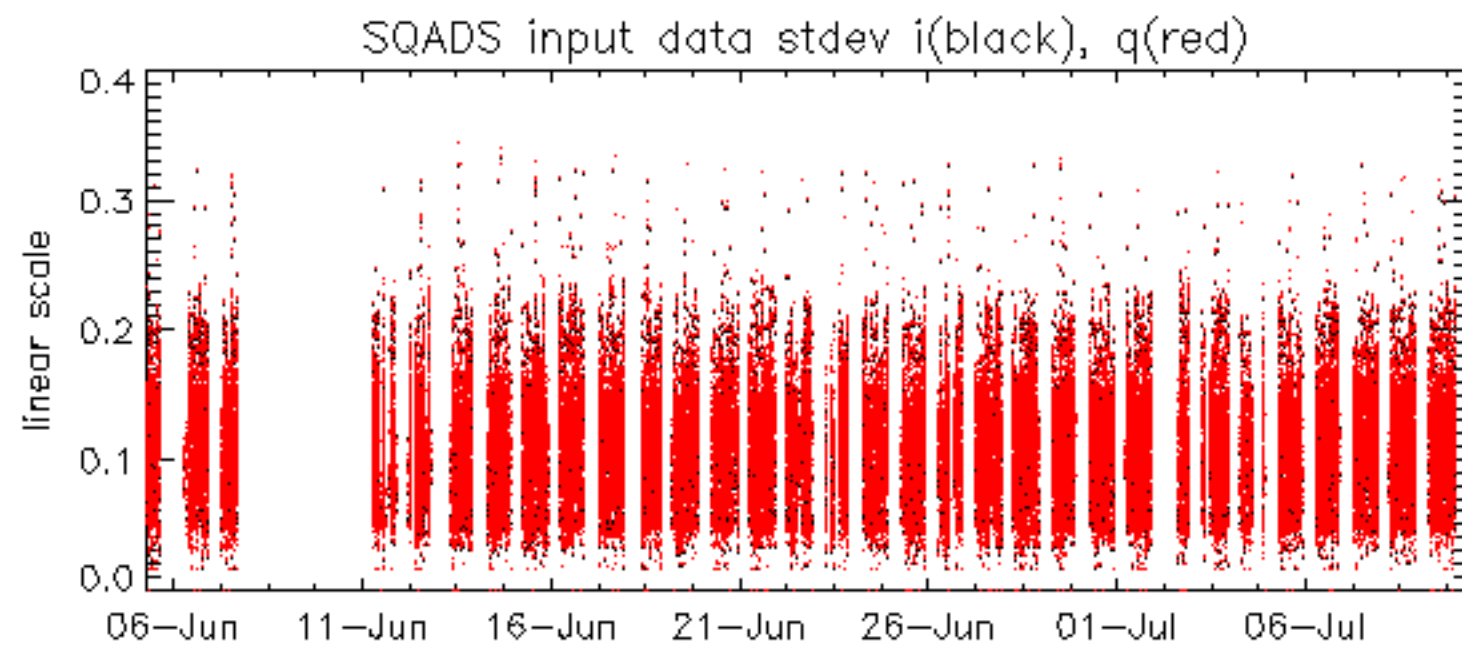
No anomalies to be reported.

The drift in phase for TR module 3 on Tile B3 has decreased to a stable configuration as shown in the figure below.

Analysis based on data available since 09-JUL-2003 till 10-JUL-2003 07:27:02 UTC
Nominal level of I and Q level 0 statistics.
No anomalies observed.







No unavailabilities during the reported period