PRELIMINARY REPORT OF 051026

last update on Wed Oct 26 17:16:14 GMT 2005

1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA_WVS_1P), global monitoring products (ASA_GM1_1P), which are the available few hours after the acquisition, on the browse (BP) products and
on the Module Stepping (MS) product.

2 - Summary

2.1 - Instrument Unavailability

No unavailabilities during the reported period.

2.2 - Auxiliary files

Summary of the auxiliary files used from 2005-10-25 00:00:00 to 2005-10-26 17:16:15

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	40	61	17	1	0
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	40	61	17	1	0
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	40	61	17	1	0
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	40	61	17	1	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	38	59	22	11	57
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	38	59	22	11	57
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	38	59	22	11	57
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	38	59	22	11	57

2.3 - Browse Visual Inspection

No anomalies observed on available browse products

2.4 - Data Analysis

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

3 - Module Stepping Mode

No anomalies observed on available MS products:

Polarisation	Start Time
V	20051024 180520
H	20051025 173343

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

4.1.1 - Evolution for WVS

Evolution of cal pulses for WVS

4.1.2 - Evolution for GM1

Evolution of cal pulses for GM1

4.2 - Cyclic statistics

4.2.1 - Evolution for WVS

Evolution of cal pulses for WVS

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.530500	0.008807	0.036235
7	P1	-2.901987	0.011008	-0.076273
11	P1	-4.074120	0.016550	-0.093928
15	P1	-6.032922	0.015009	-0.041974
19	P1	-3.160004	0.005516	-0.039514
22	P1	-4.451809	0.013468	-0.066923
26	P1	-4.271076	0.014976	0.047241
30	P1	-5.709931	0.008757	-0.049254
3	P1	-15.386707	0.181127	0.269150
7	P1	-16.280426	0.113544	-0.156365
11	P1	-16.236721	0.293447	-0.334340
15	P1	-13.351284	0.106498	-0.085392
19	P1	-13.628160	0.042153	-0.163490
22	P1	-16.141279	0.479879	-0.336326
26	P1	-16.138929	0.251686	0.376027
30	P1	-16.417299	0.185997	-0.183021

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.864027	0.098534	0.000530
7	P2	-22.695805	0.104710	0.084610
11	P2	-16.739418	0.114047	0.153516
15	P2	-7.223290	0.101459	-0.051144
19	P2	-9.177246	0.093165	-0.061351
22	P2	-17.732620	0.099670	-0.133463
26	P2	-16.106672	0.094915	-0.124397
30	P2	-19.625259	0.090498	-0.018950

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.193086	0.005801	-0.041909
7	P3	-8.193086	0.005801	-0.041909
11	P3	-8.193086	0.005801	-0.041909
15	P3	-8.193086	0.005801	-0.041909
19	P3	-8.193086	0.005801	-0.041909
22	P3	-8.193086	0.005801	-0.041909
26	P3	-8.193086	0.005801	-0.041909
30	P3	-8.193086	0.005801	-0.041909

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1
⊠

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.662462	0.007116	-0.010290
7	P1	-2.824368	0.011933	0.079471
11	P1	-2.851571	0.012686	-0.000305
15	P1	-3.385133	0.017921	0.023250
19	P1	-3.351668	0.010784	-0.025644
22	P1	-5.141094	0.019359	0.046488
26	P1	-5.783393	0.017532	-0.050329
30	P1	-5.214354	0.026150	-0.031090
3	P1	-11.405103	0.032532	-0.015629
7	P1	-9.920926	0.040472	-0.003409
11	P1	-10.015440	0.057462	-0.028577
15	P1	-10.571892	0.092632	0.066567
19	P1	-15.466280	0.067744	-0.073744
22	P1	-20.490498	1.176509	-0.379447

26	P1	-17.106909	0.381354	-0.239969
30	P1	-18.736719	0.384695	0.590819

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.704113	0.037715	0.008421
7	P2	-23.056213	0.090104	-0.097331
11	P2	-11.747008	0.026909	0.014705
15	P2	-4.898545	0.037189	-0.092278
19	P2	-6.902929	0.025912	-0.053948
22	P2	-8.112543	0.024860	-0.072412
26	P2	-23.871429	0.038670	-0.137766
30	P2	-22.062052	0.026939	-0.051502

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.036917	0.002805	-0.042659
7	P3	-8.037032	0.002818	-0.042740
11	P3	-8.036939	0.002812	-0.042830
15	P3	-8.037023	0.002816	-0.042971
19	P3	-8.037034	0.002823	-0.042852
22	P3	-8.036975	0.002827	-0.042905
26	P3	-8.037134	0.002825	-0.042605
30	P3	-8.036983	0.002818	-0.042849

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

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4.3.2 - Evolution for GM1

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5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000560004
	stdev	1.70798e-07
MEAN Q	mean	0.000542262
	stdev	2.15403e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.137625
	stdev	0.00111821
STDEV Q	mean	0.137970
	stdev	0.00113450

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005102[456]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_WSM_1PNPDE20051024_015714_000001592041_00490_19081_5772.N1	0	11
ASA_WSM_1PNPDE20051024_033513_000000672041_00491_19082_5794.N1	0	50
ASA_WSM_1PNPDE20051024_184203_000003062041_00500_19091_5927.N1	0	67

7 - Doppler Analysis

Preliminary report.The data is not yet controled

7.1 - Unbiased Doppler Error for WVS

Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

7.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler

Acsending

Descending

7.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX


7.4 - Unbiased Doppler Error for GM1

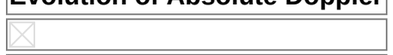
Evolution of unbiased Doppler error (Real - Expected)

Acsending

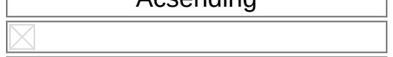
Descending

7.5 - Absolute Doppler for GM1

Evolution of Absolute Doppler



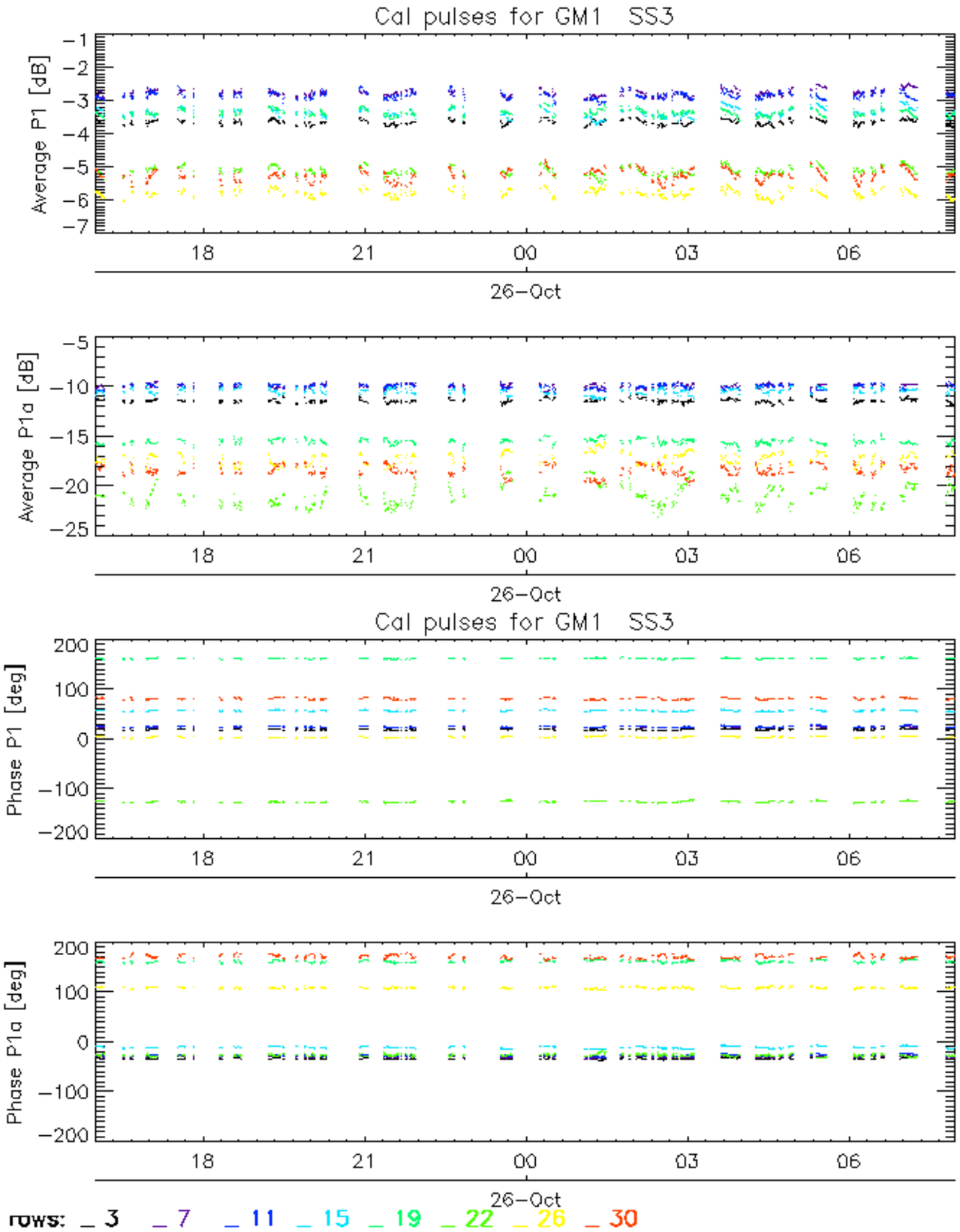
Acsending

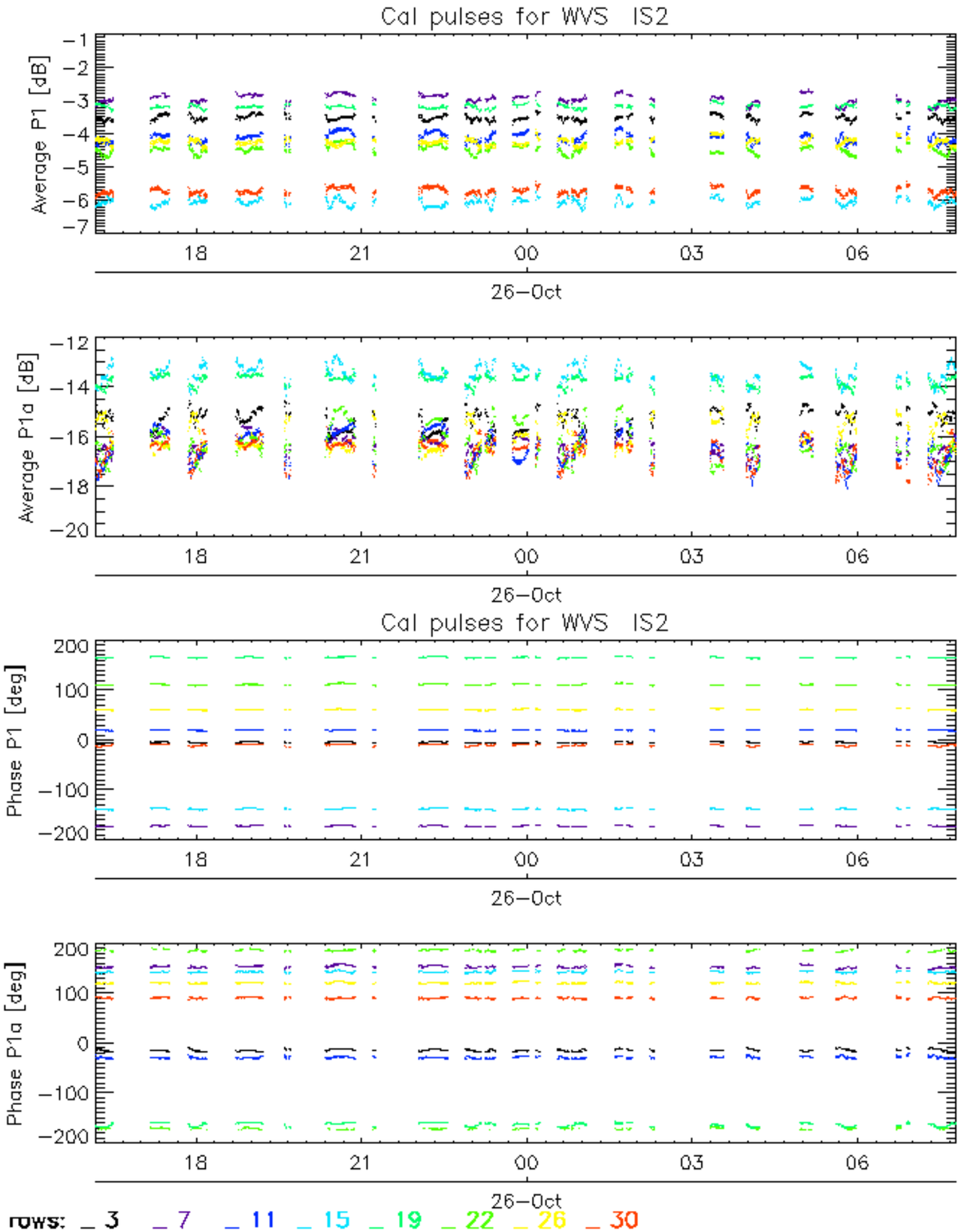


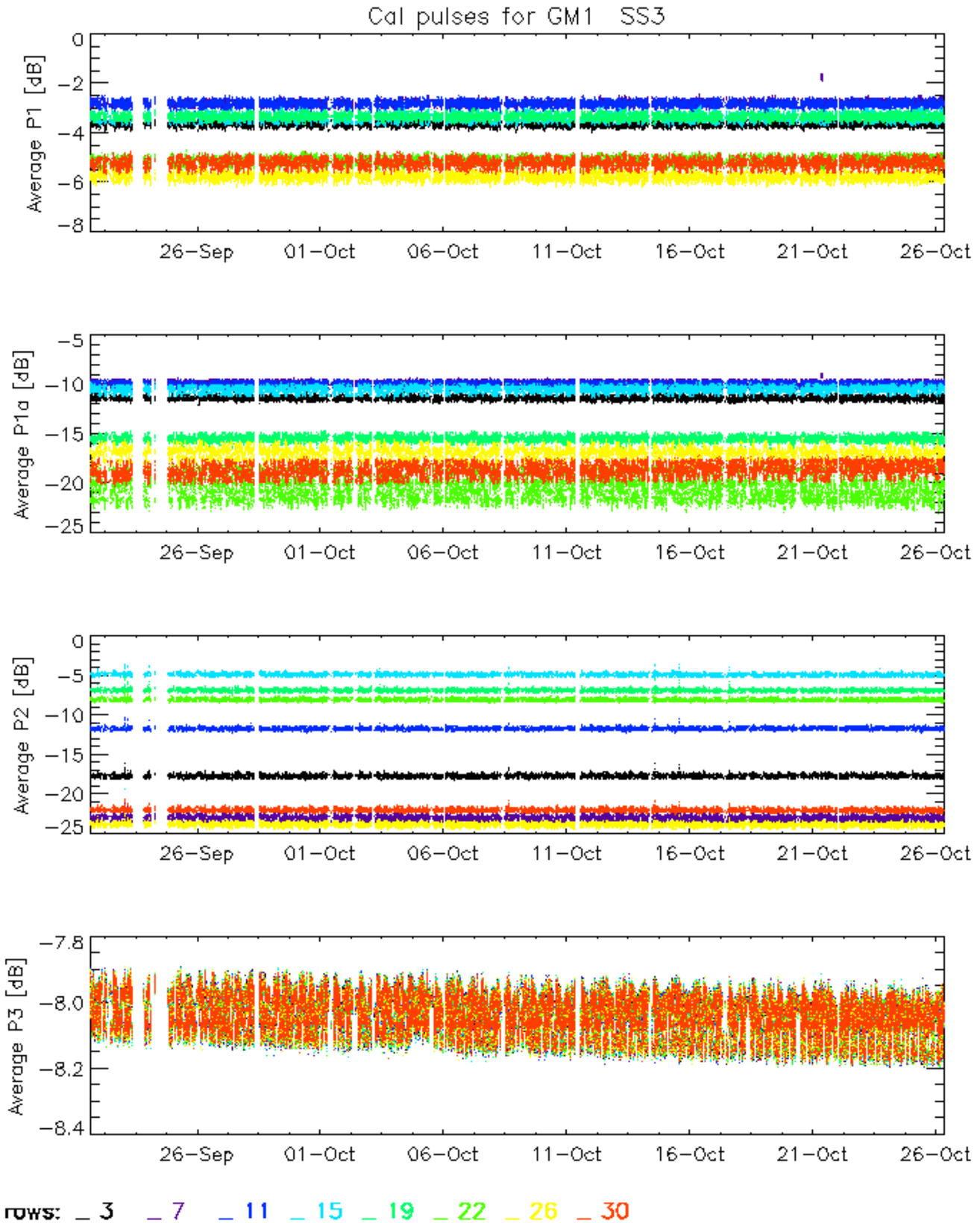
Descending

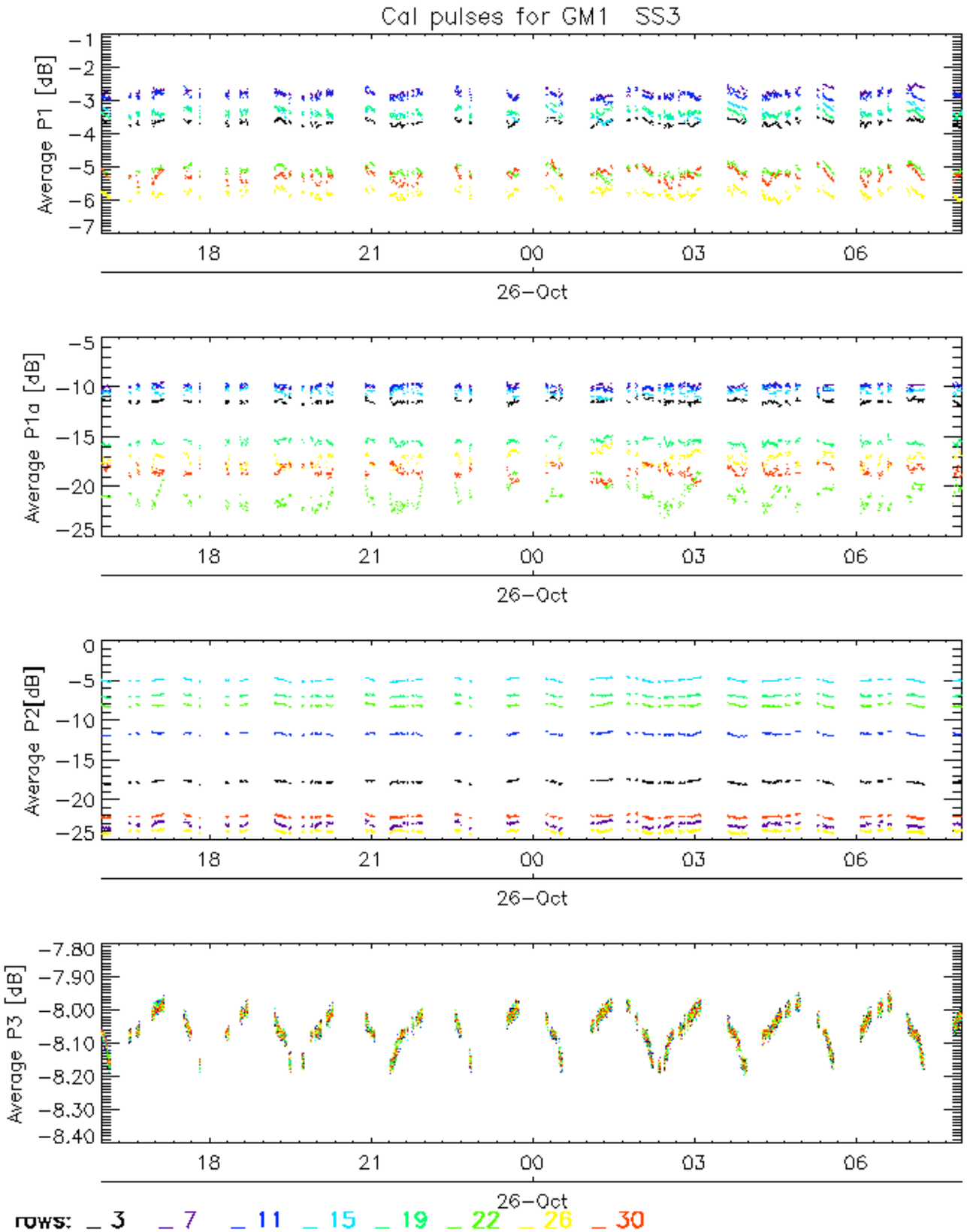
7.6 - Doppler evolution versus ANX for GM1

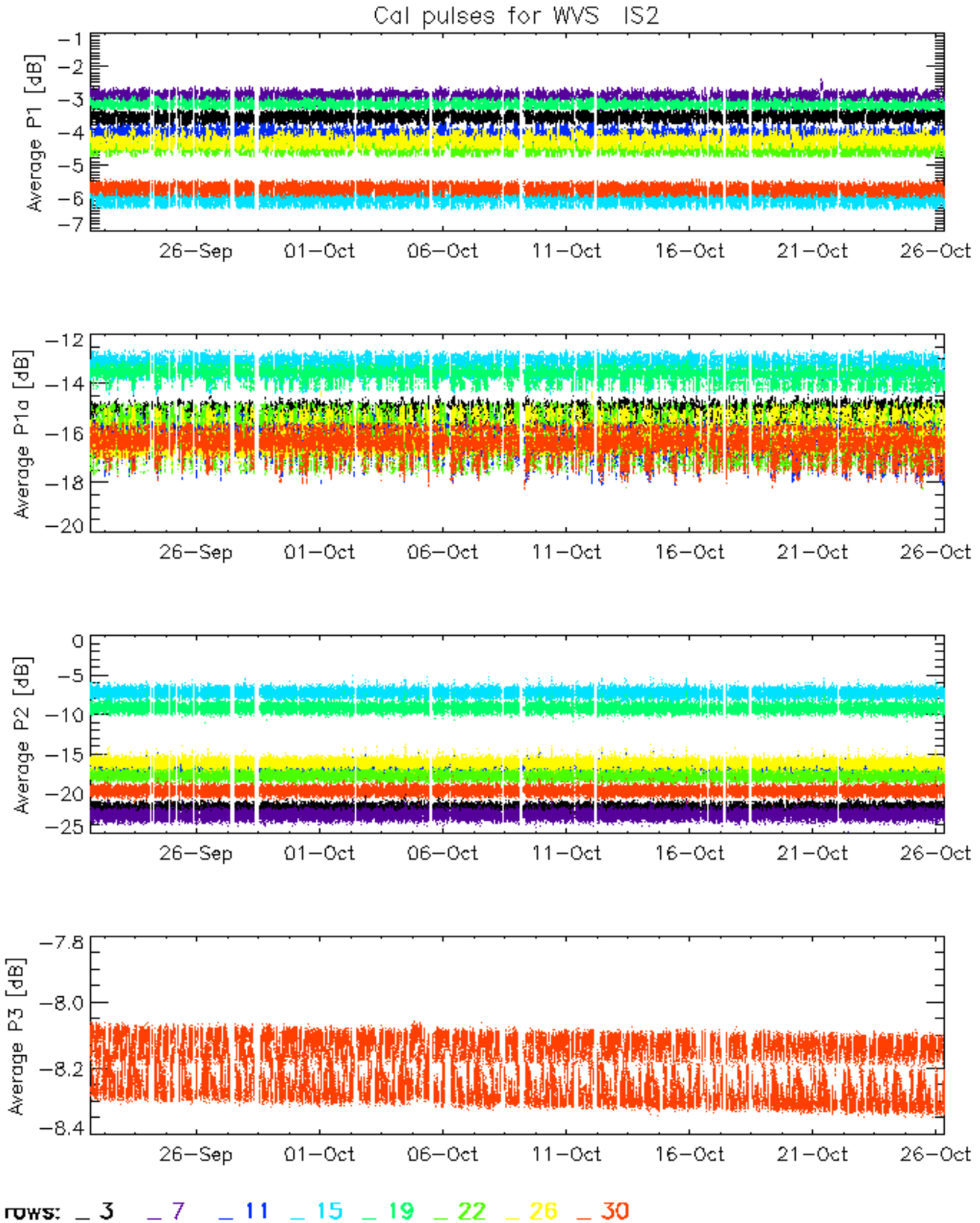
Evolution Doppler error versus ANX

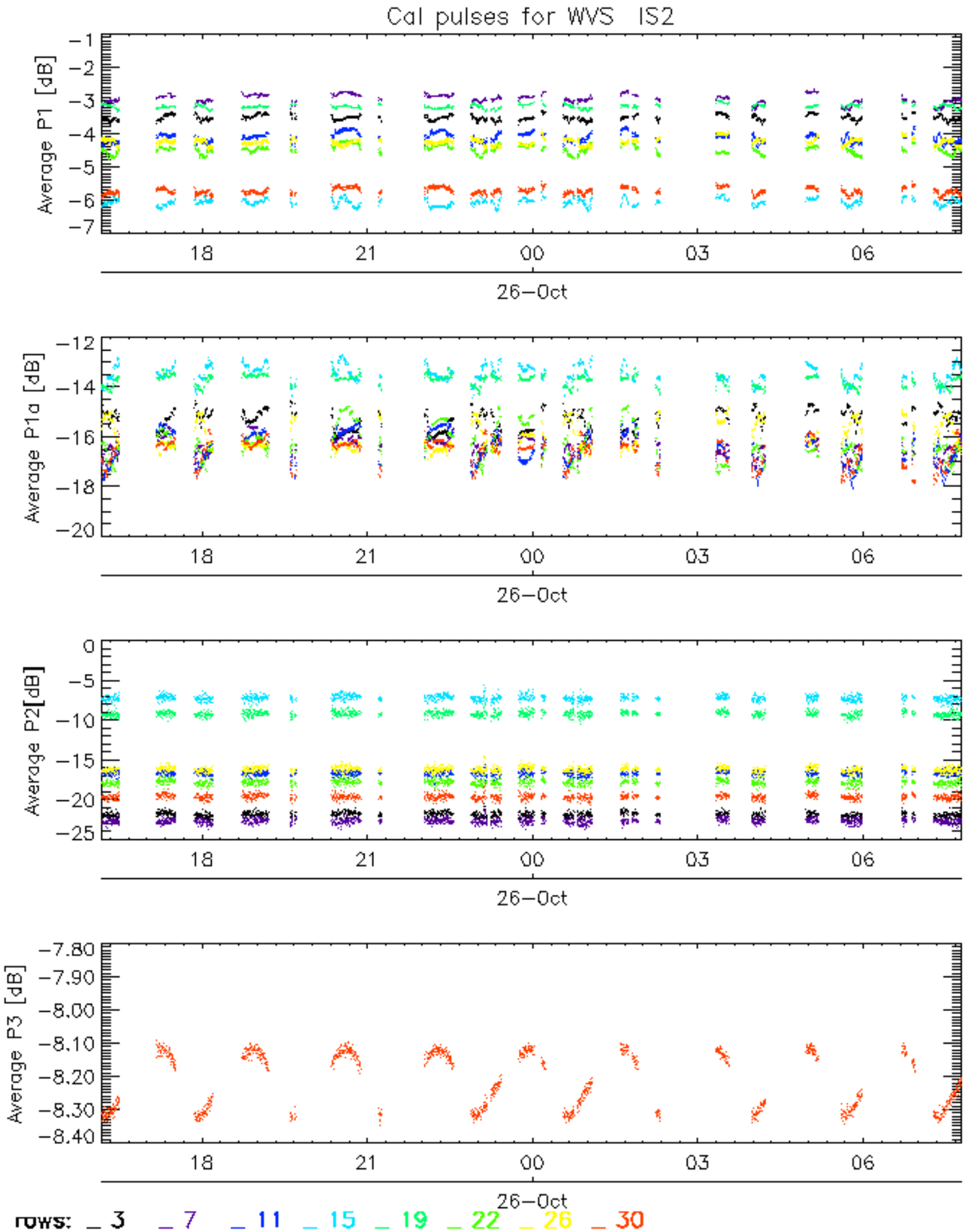

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
26−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
26−Oct
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
26−Oct
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
26−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
26−Oct
Average P1a [dB]
−12
−14
−16
−18
−20
18
21
00
03
06
26−Oct
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
26−Oct
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
26−Oct
rows: 3 7 11 15 19 22 26 30


Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

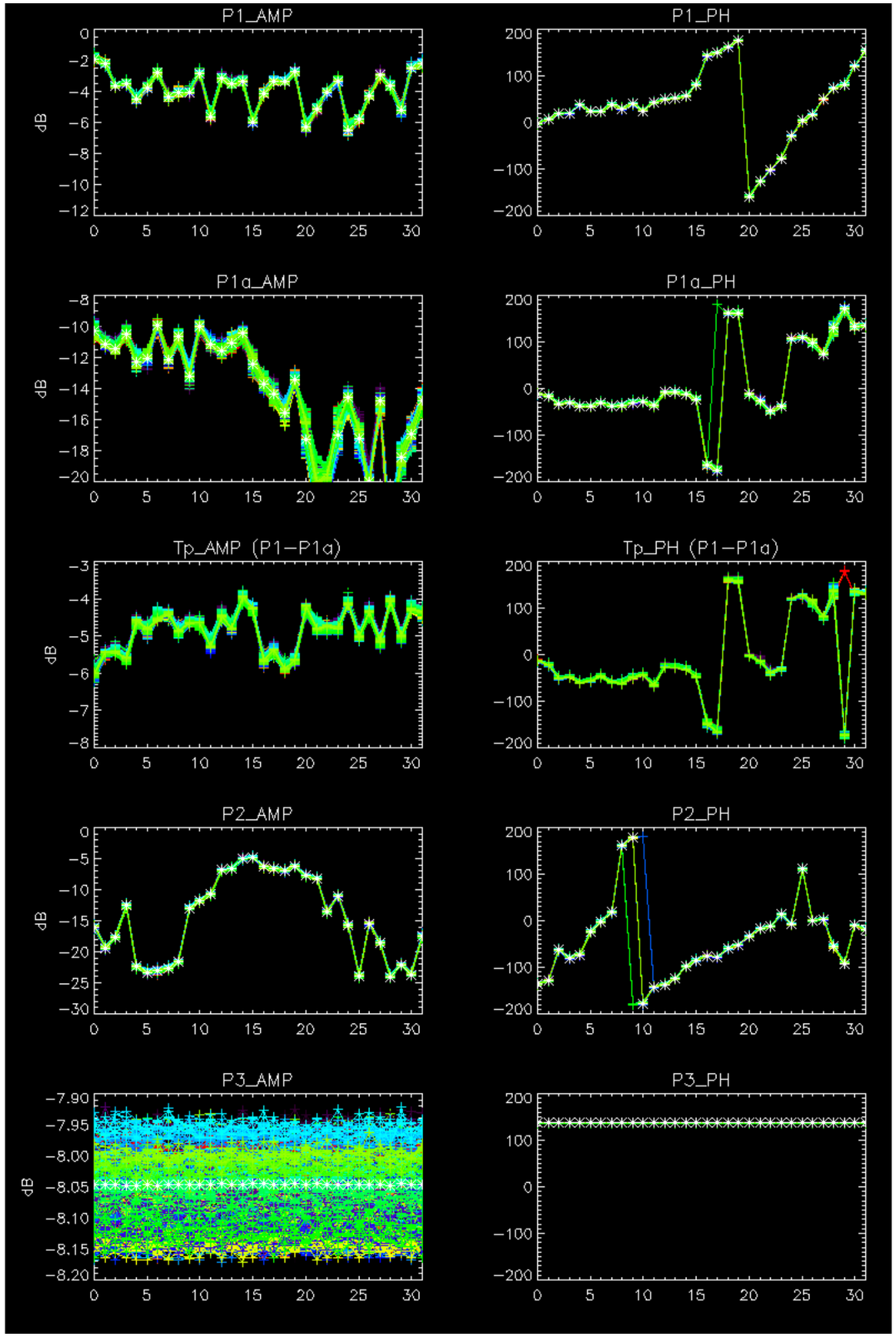

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
26−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
26−Oct
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
26−Oct
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
26−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

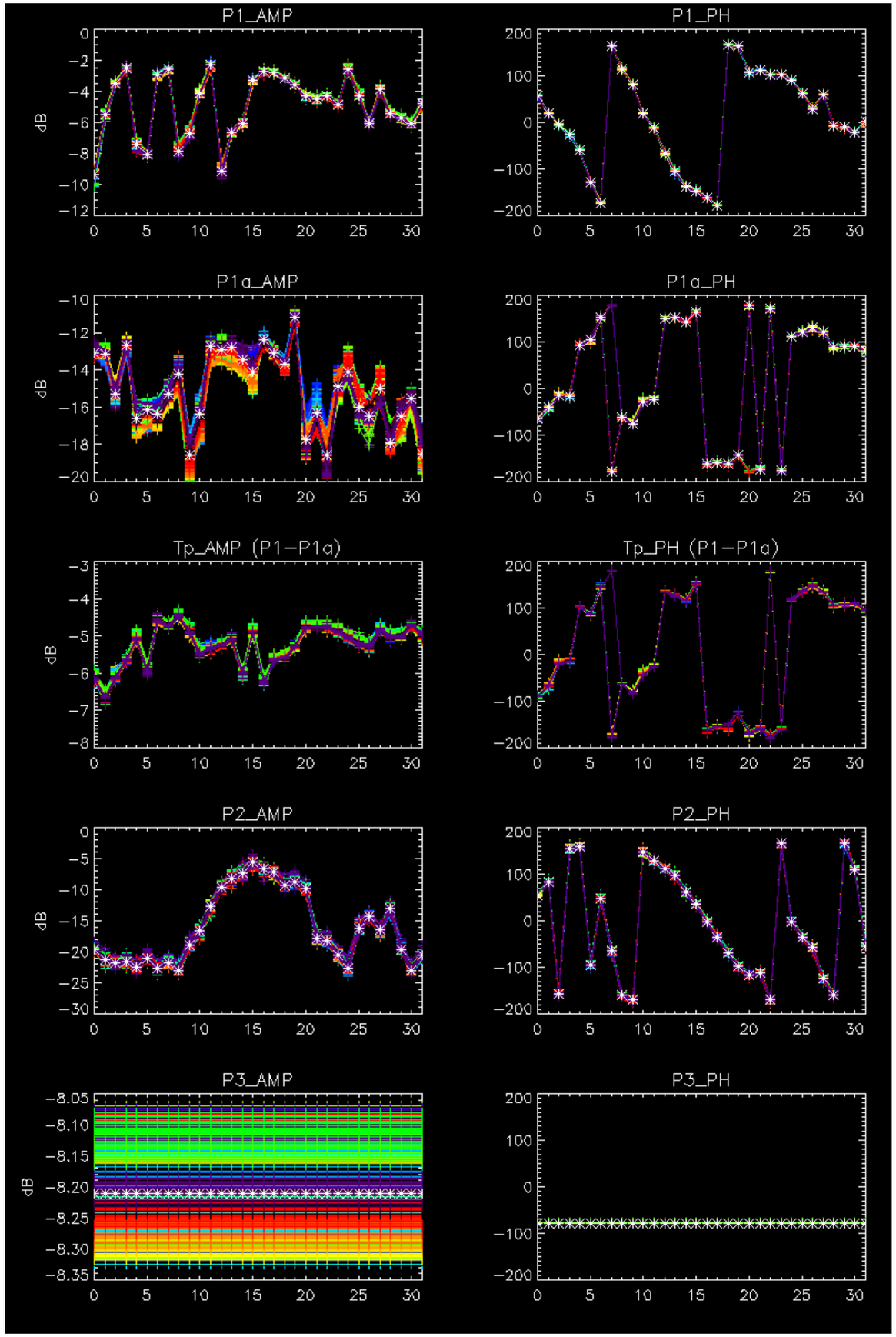

Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct
Average P1a [dB]
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
26−Oct
Average P1a [dB]
−12
−14
−16
−18
−20
18
21
00
03
06
26−Oct
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
26−Oct
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
26−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

No anomalies observed on available browse products

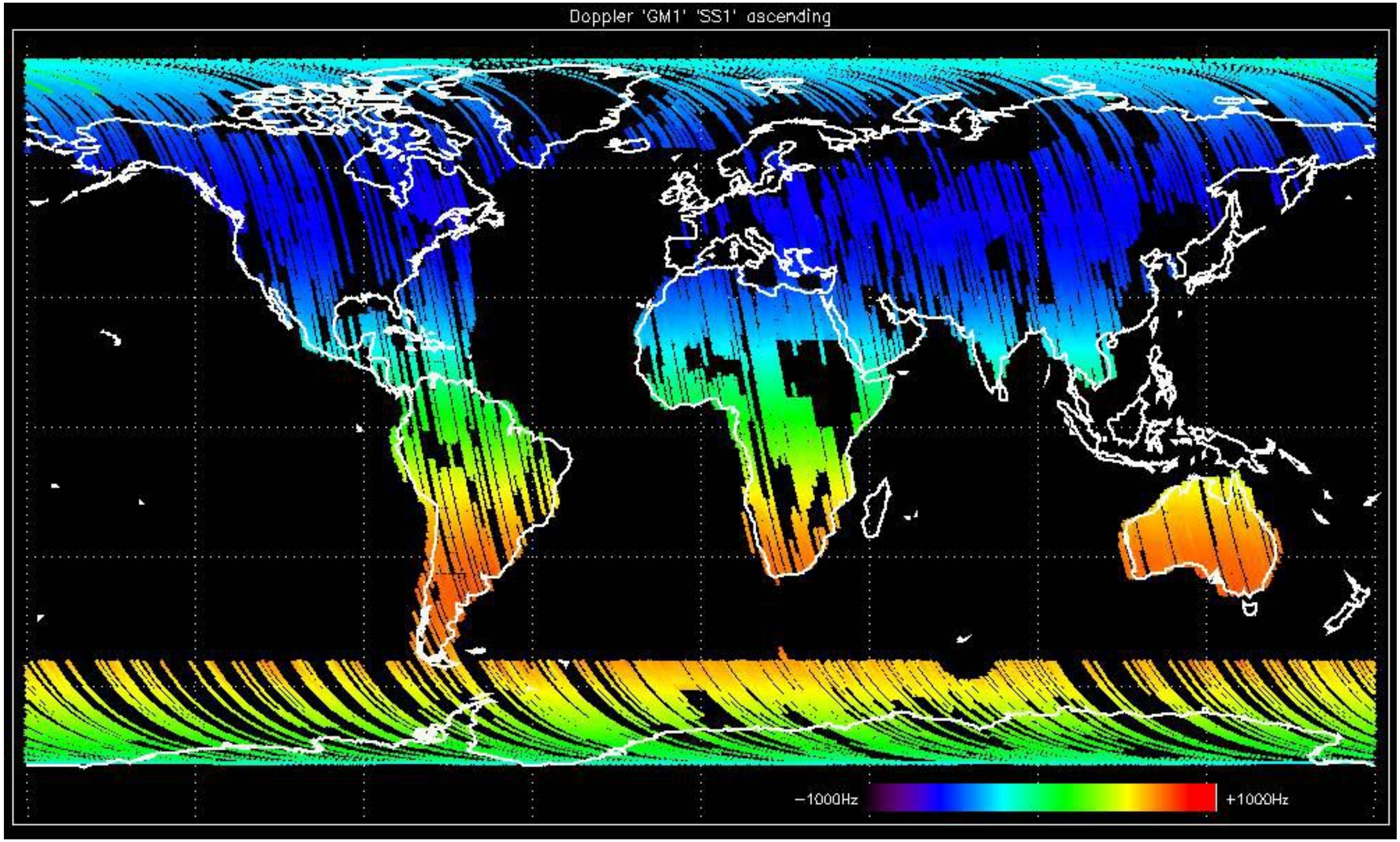
No anomalies observed.

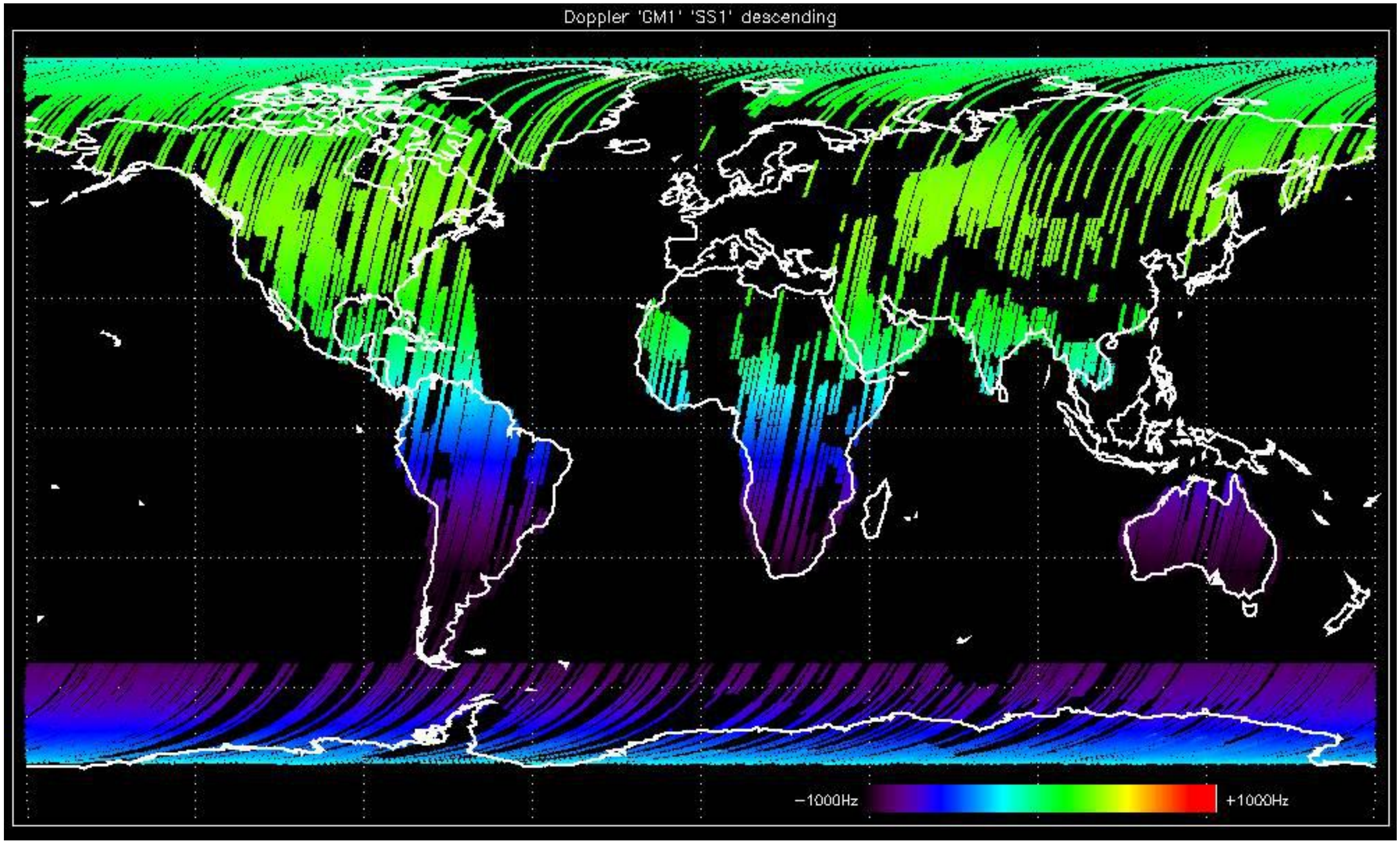

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

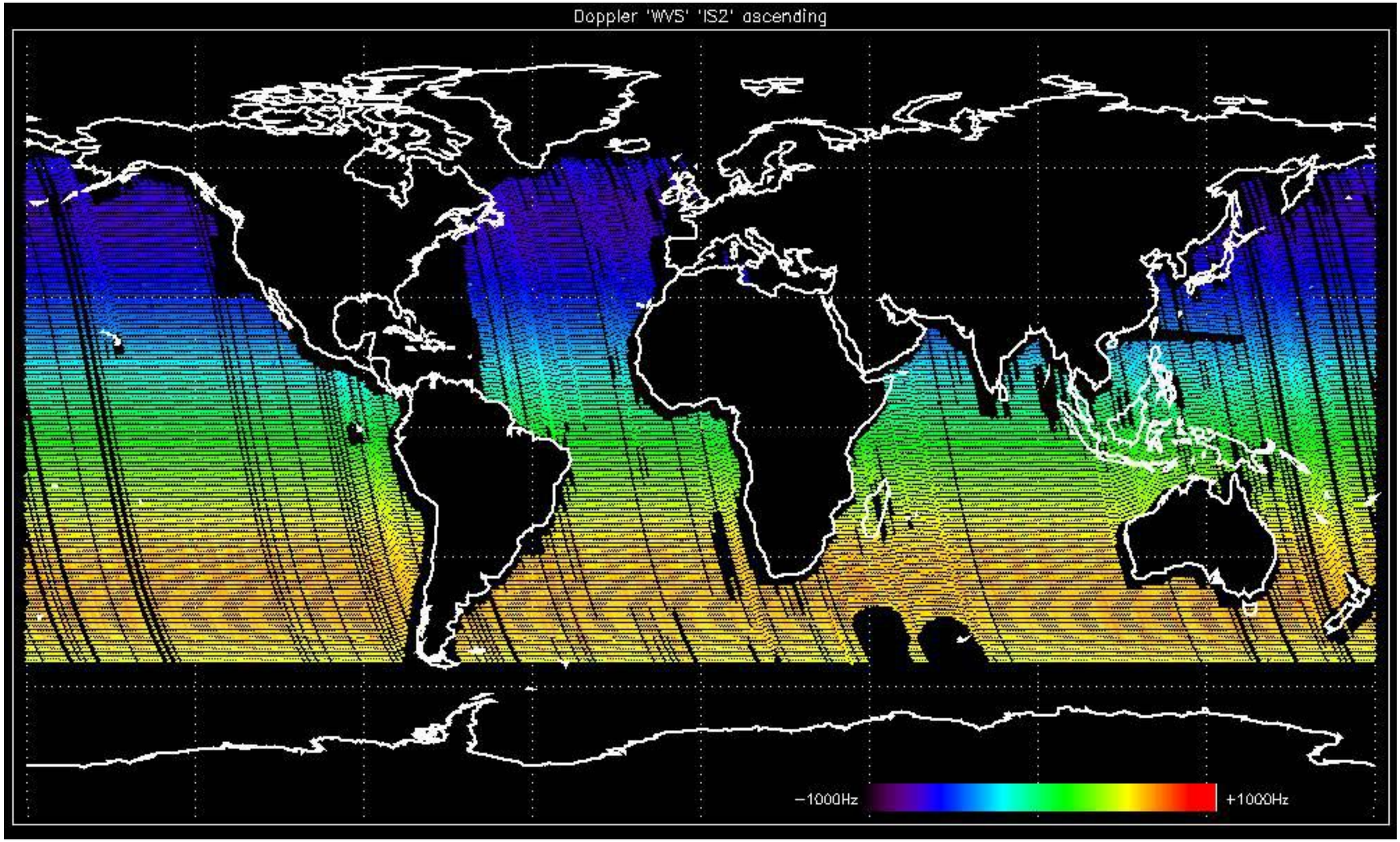

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

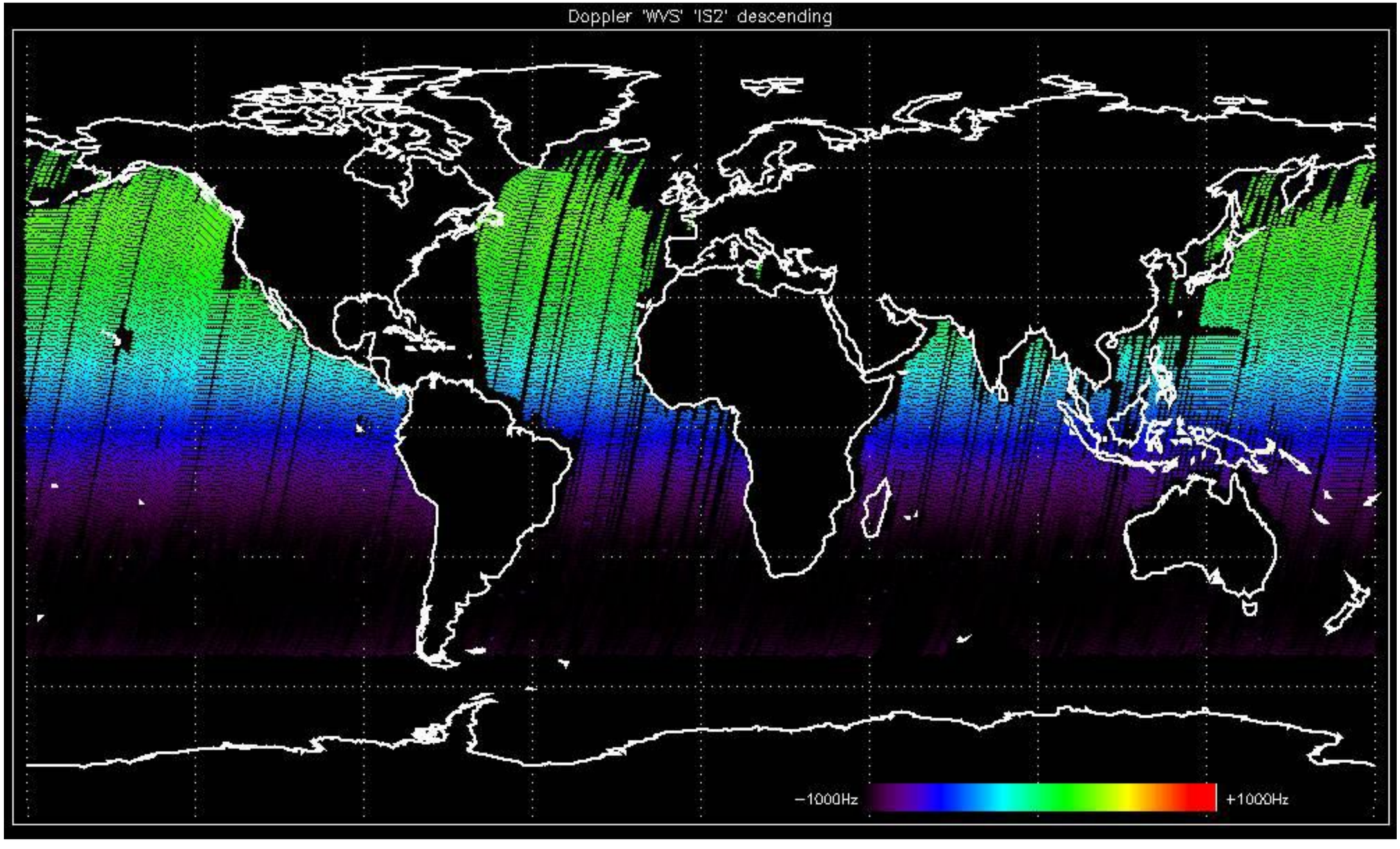
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

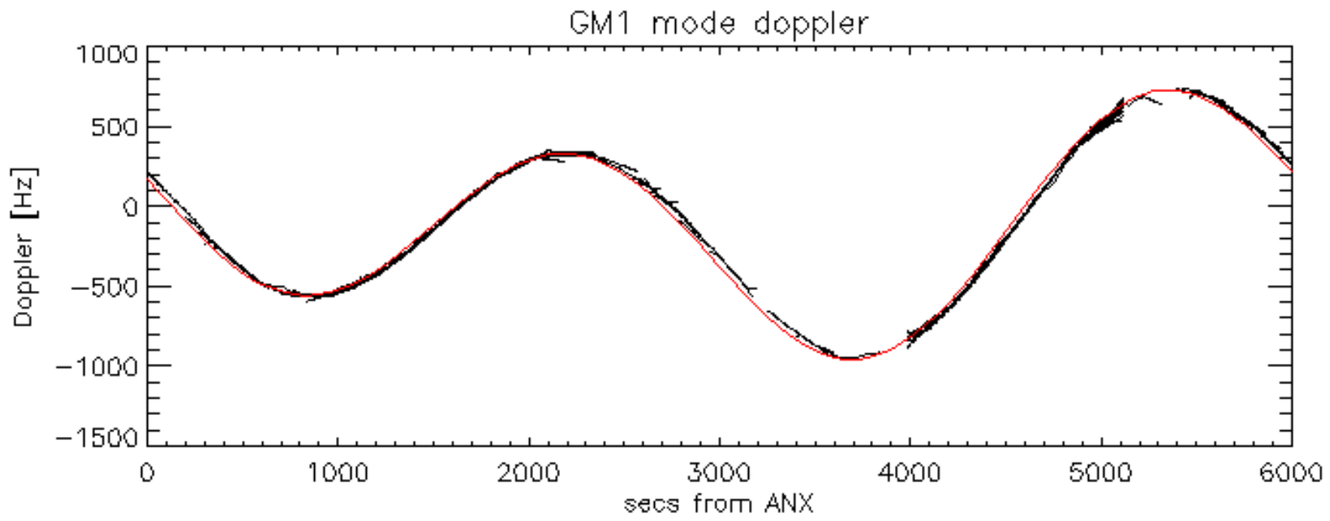
Preliminary report.The data is not yet controled

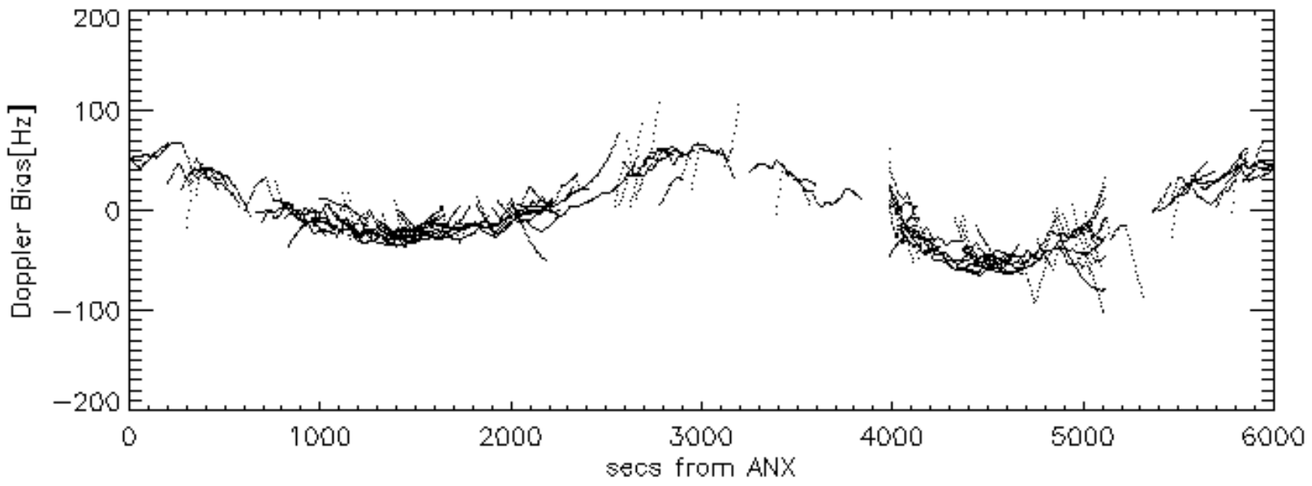

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

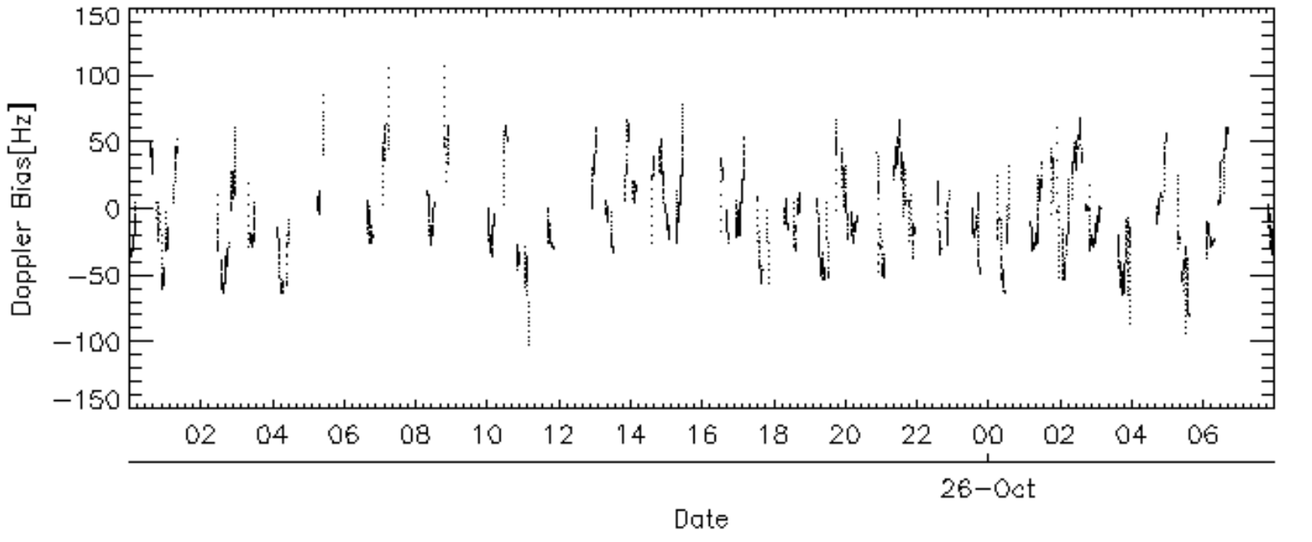

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

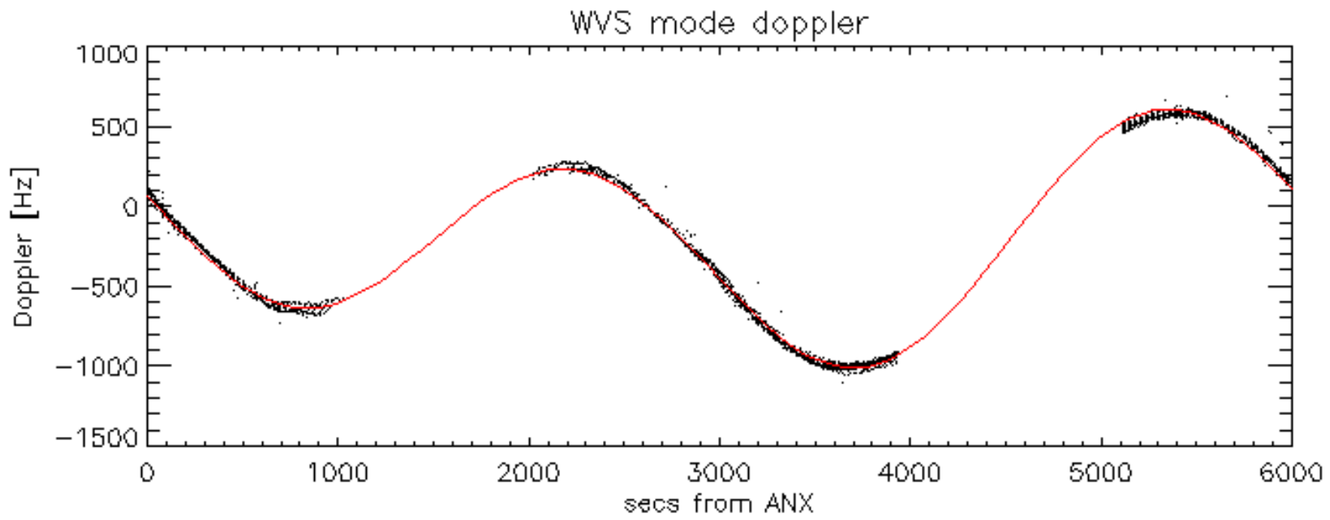

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

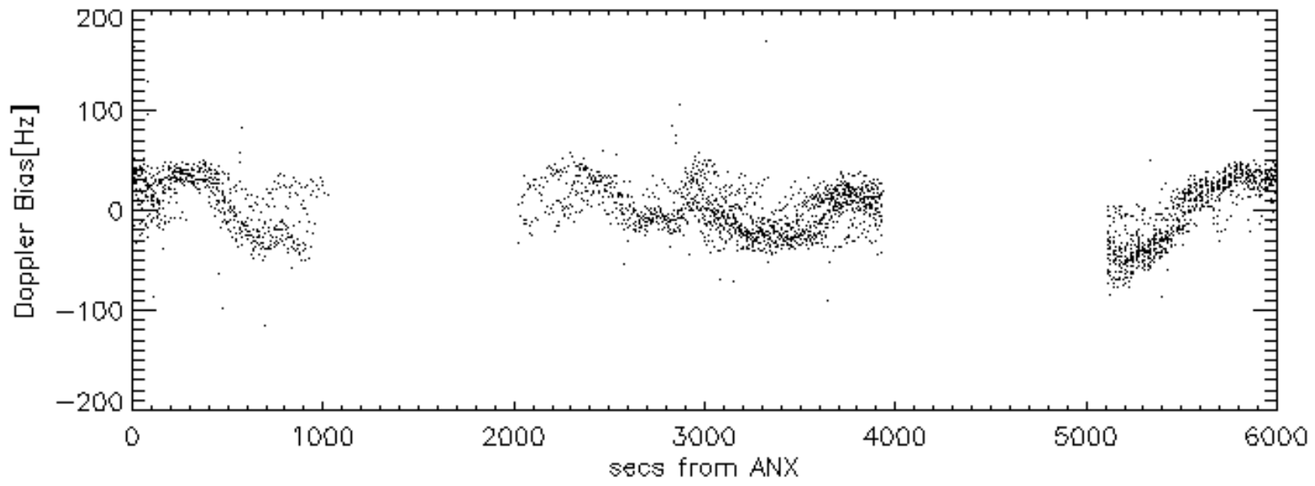

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

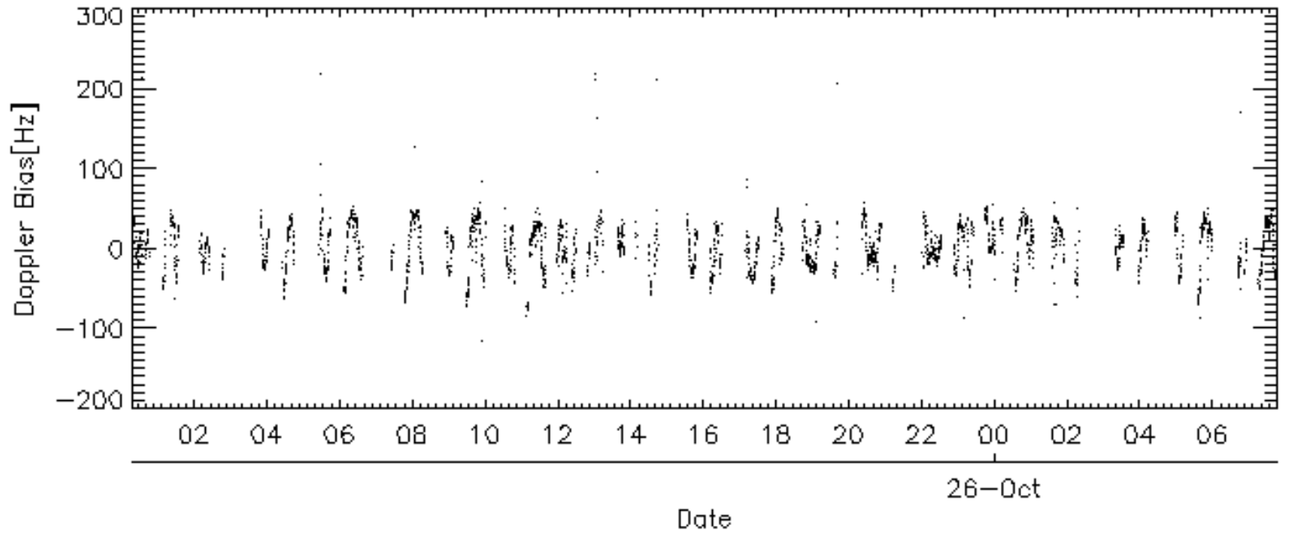

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

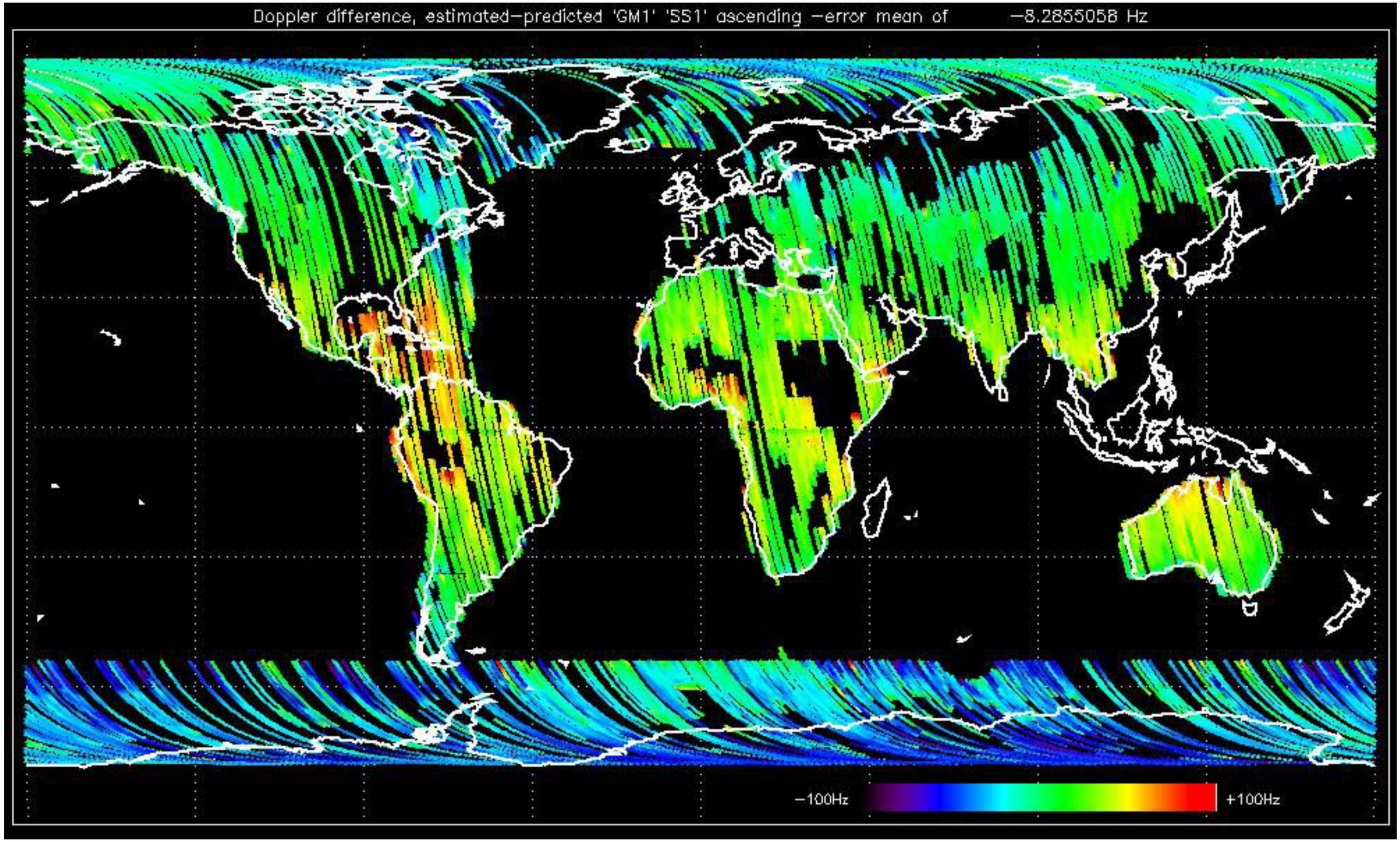

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

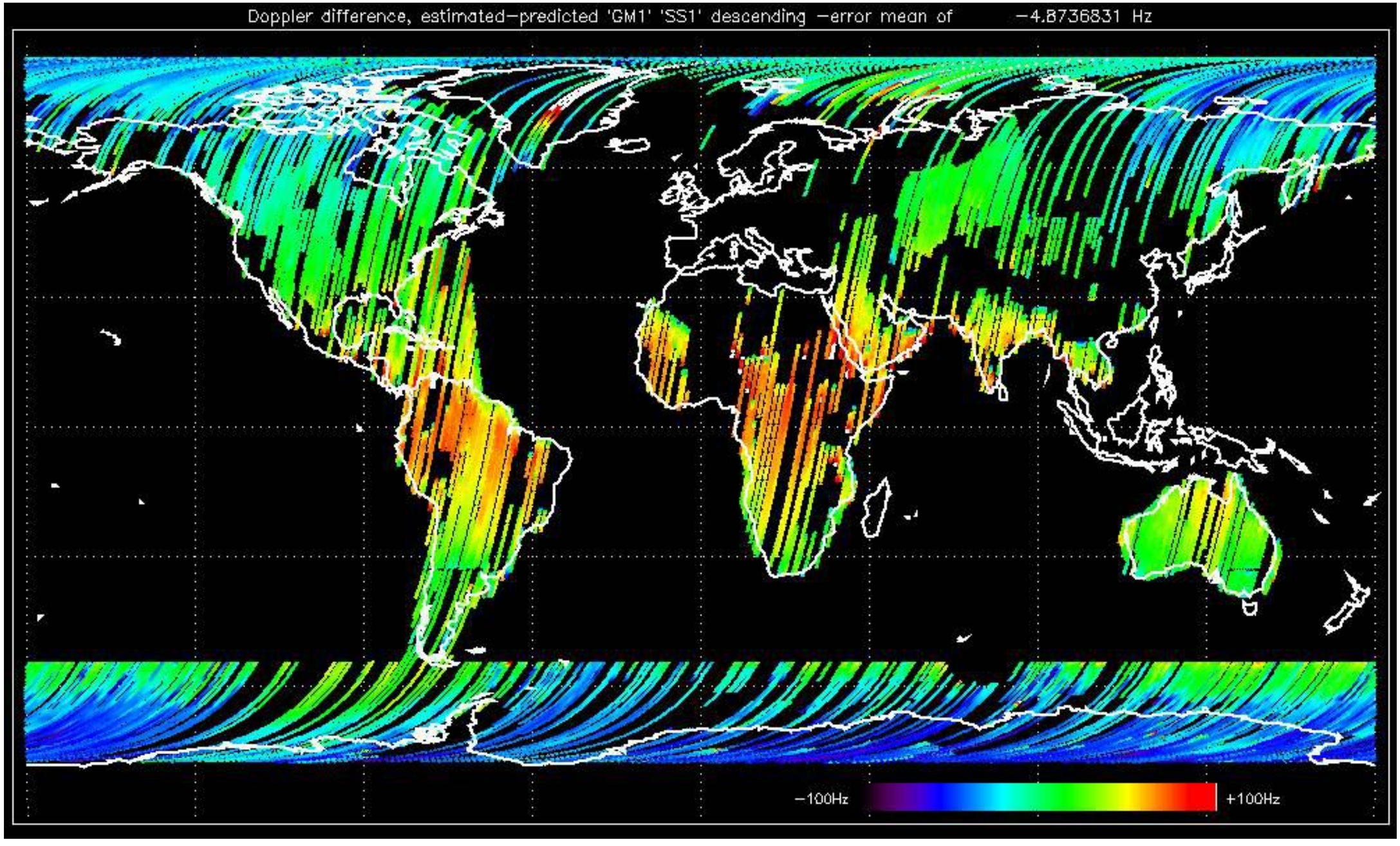

Doppler Bias[Hz]
150
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
26−Oct
Date

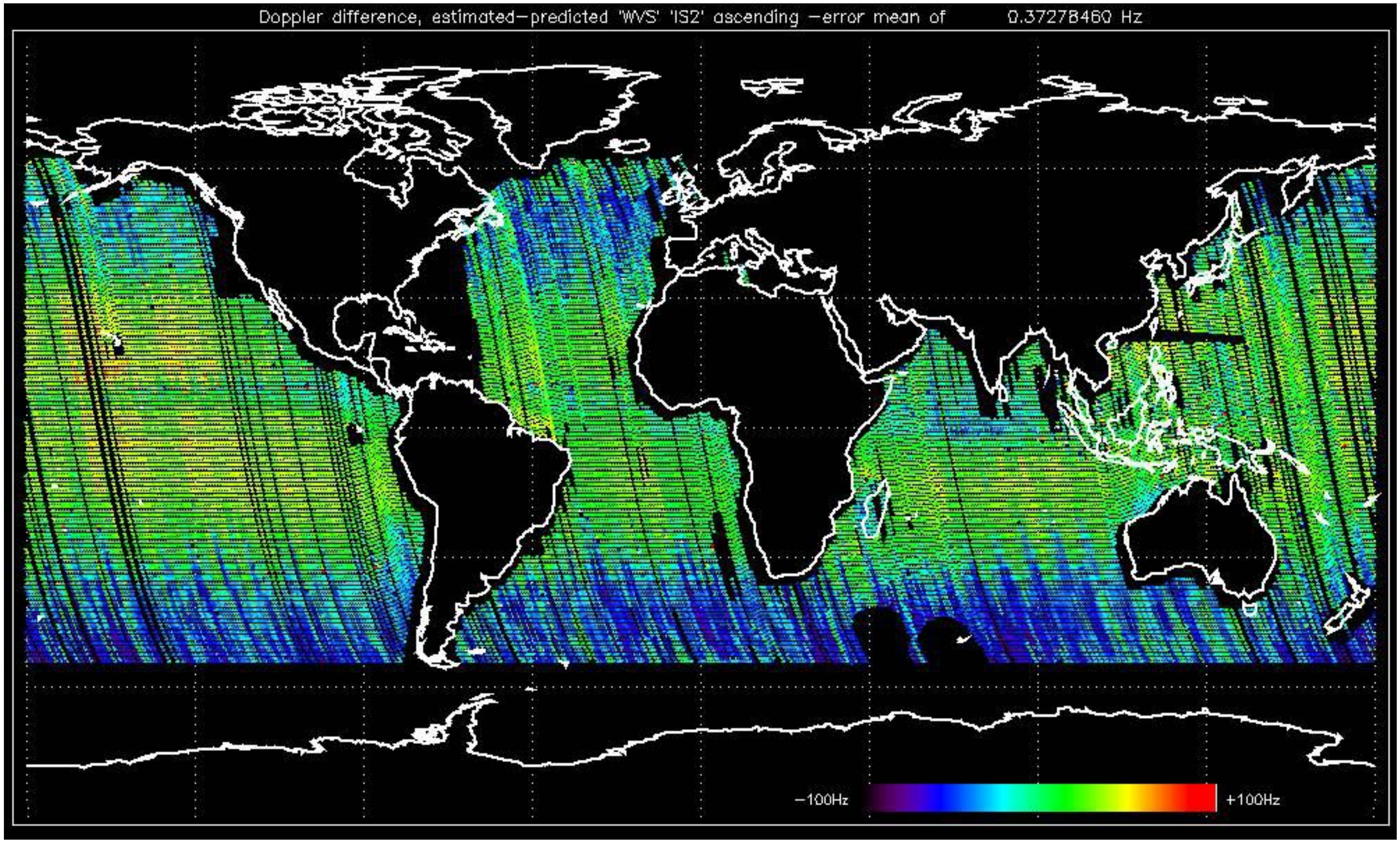

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

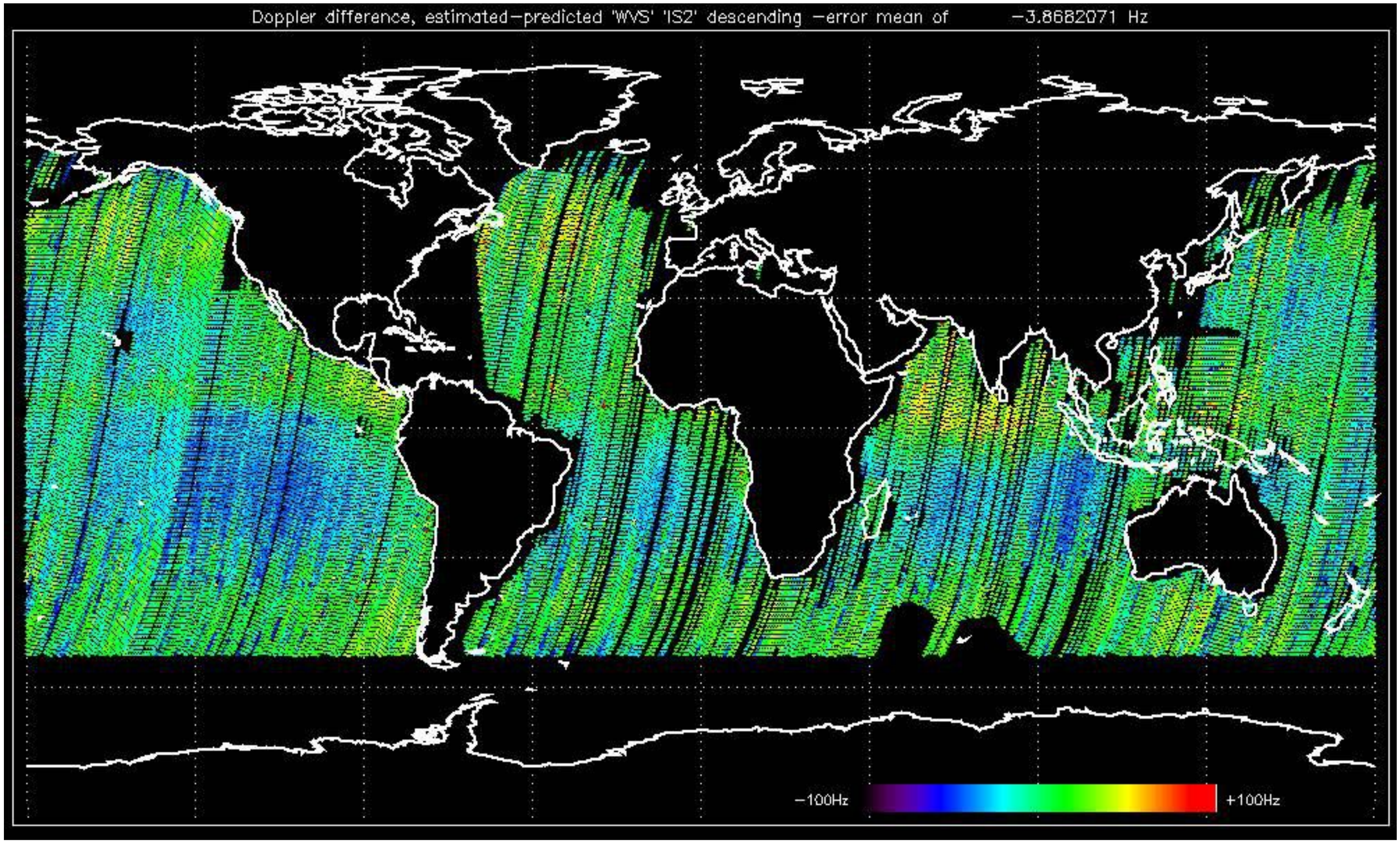

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


Doppler Bias[Hz]
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
26−Oct
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −8.2855058 Hz
−100Hz
+100Hz

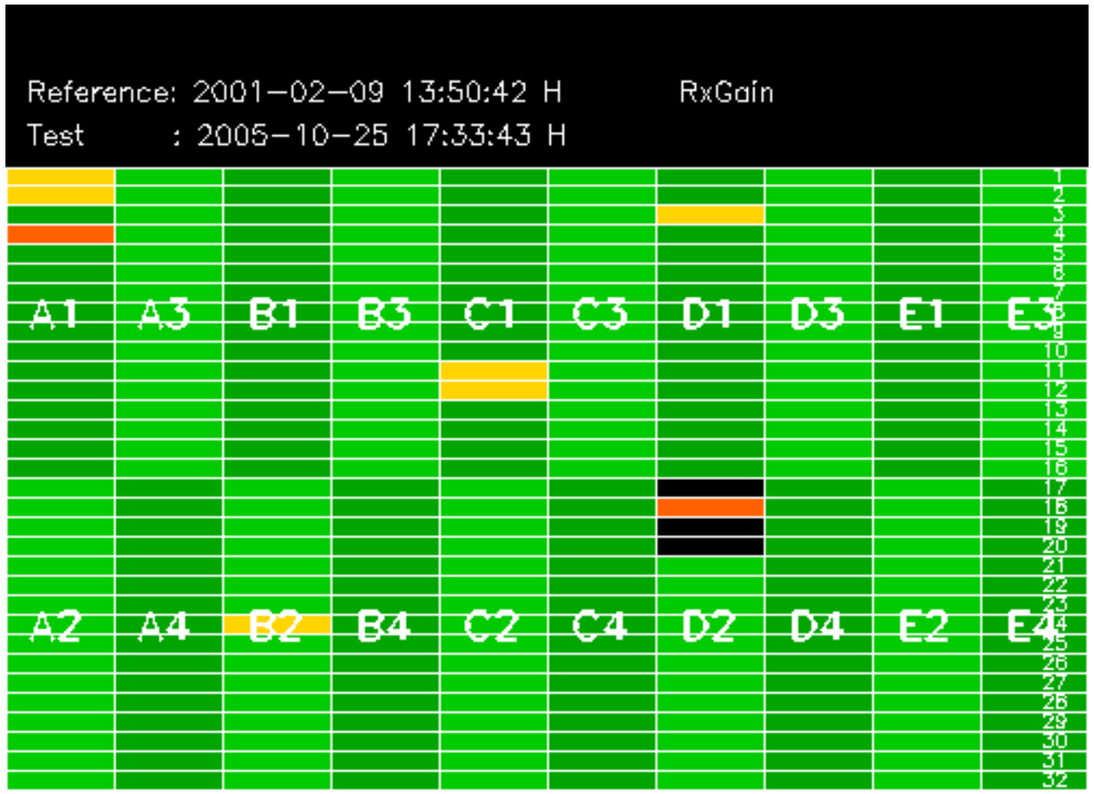

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −4.8736831 Hz
−100Hz
+100Hz

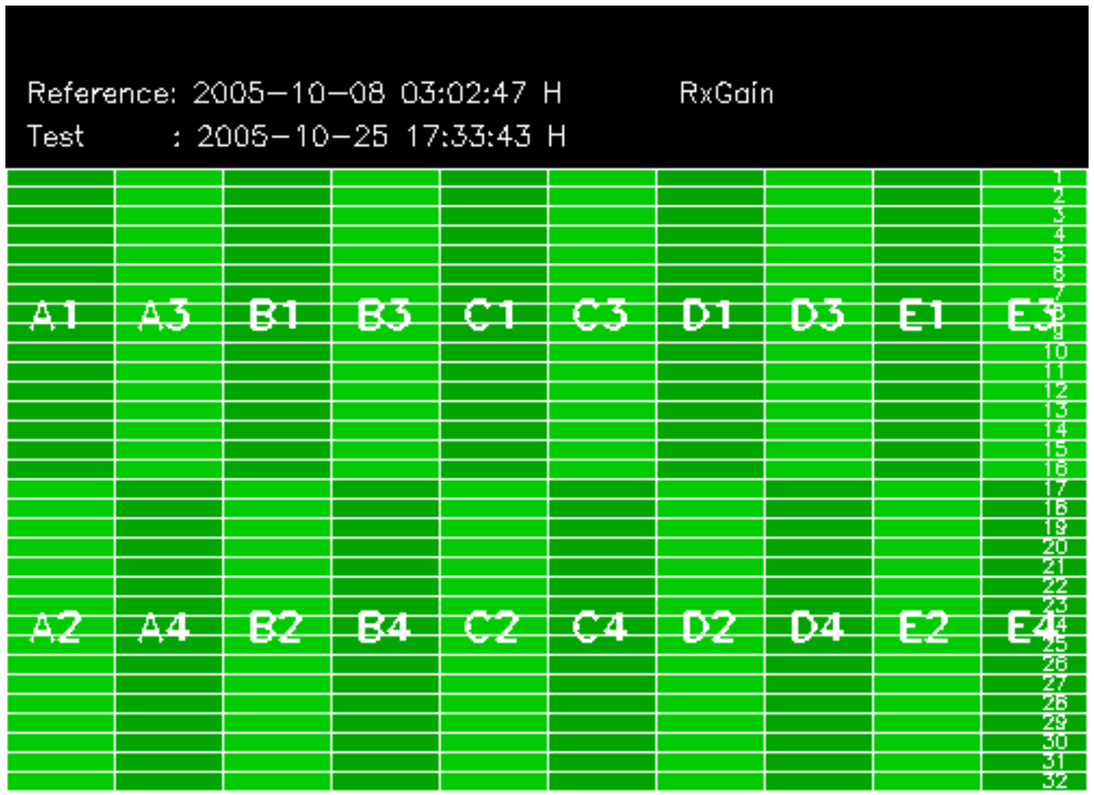

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of 0.37278460 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −3.8682071 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2005-10-25 17:33:43 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxGain
Test : 2005-10-25 17:33:43 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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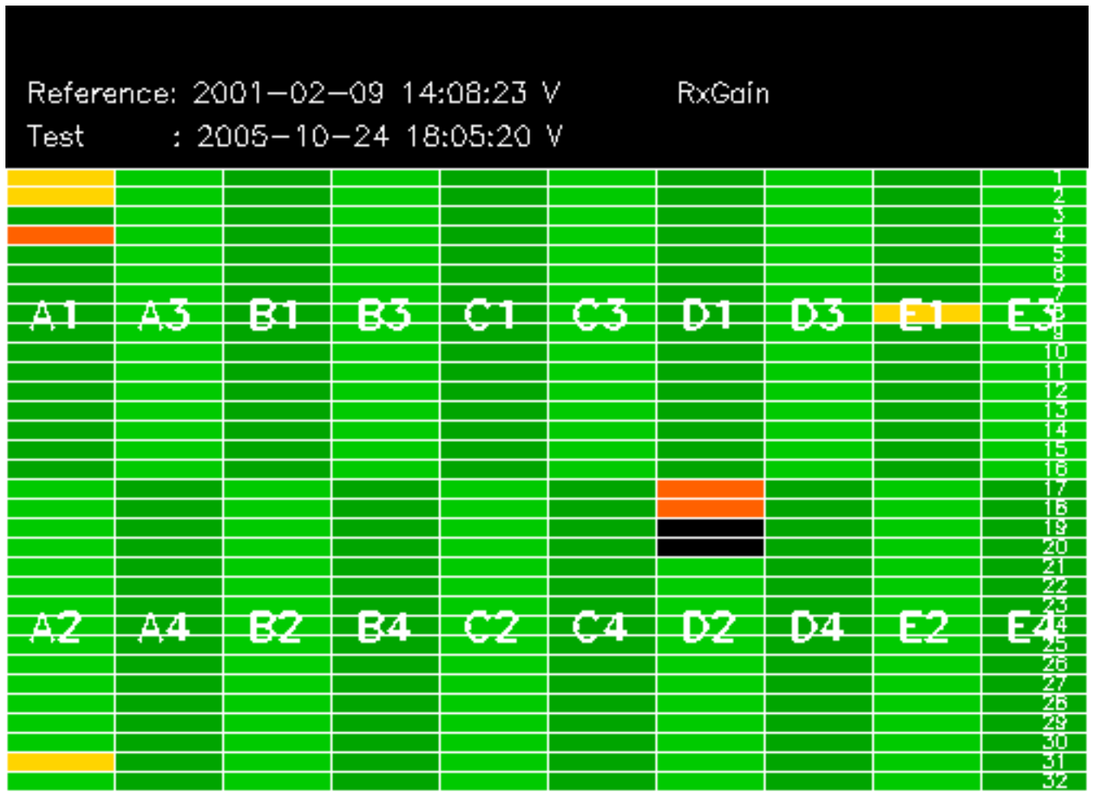
Reference: 2001-02-09 14:08:23 V
Test : 2005-10-24 18:05:20 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
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8
9
10
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16
17
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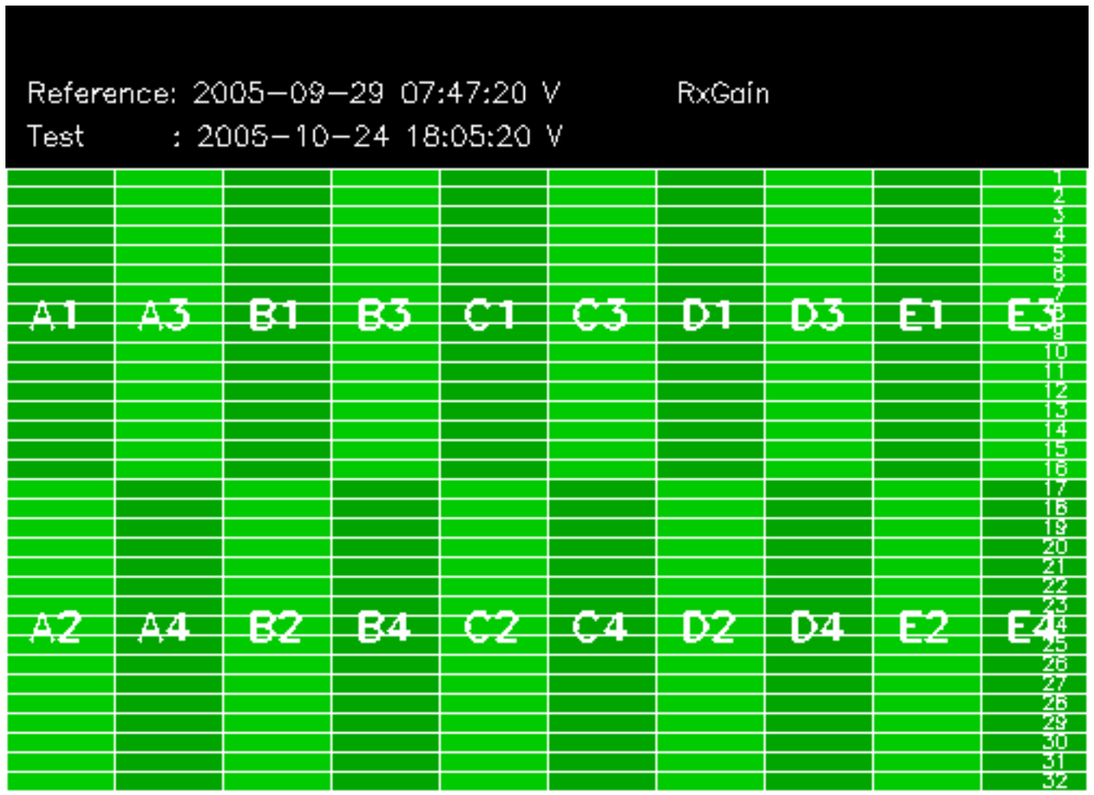
Reference: 2005-09-29 07:47:20 V
Test : 2005-10-24 18:05:20 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
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30
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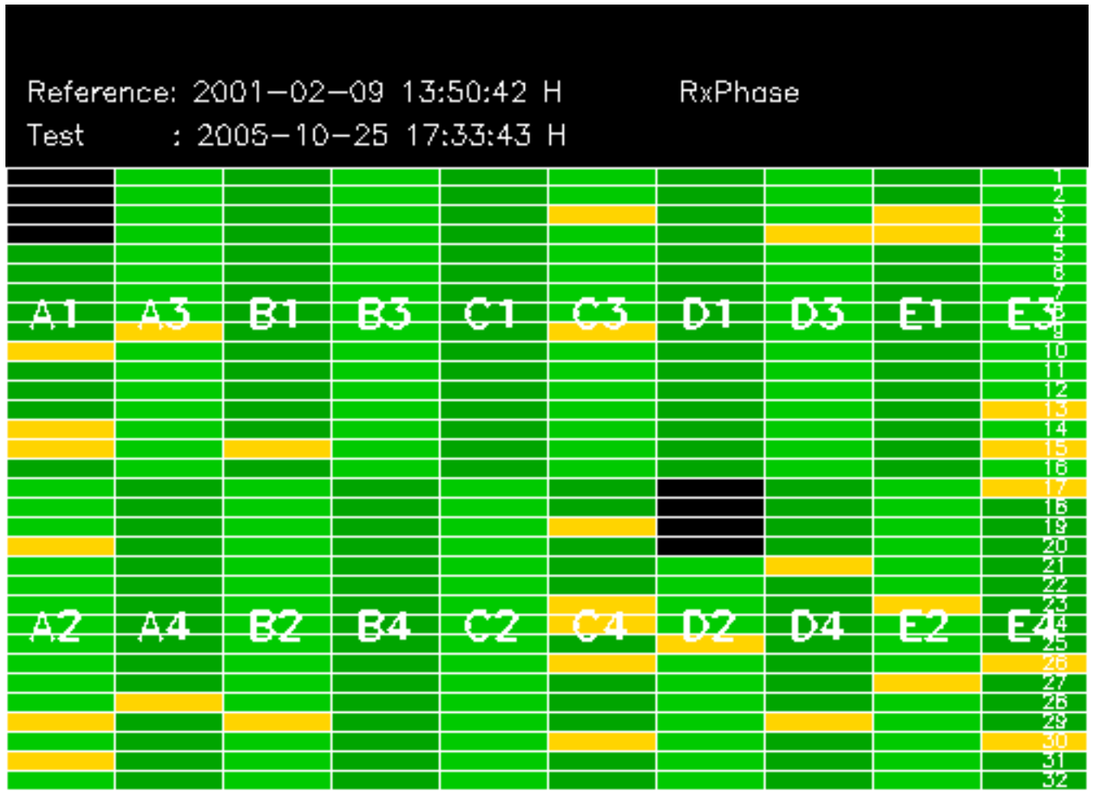
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2005-10-25 17:33:43 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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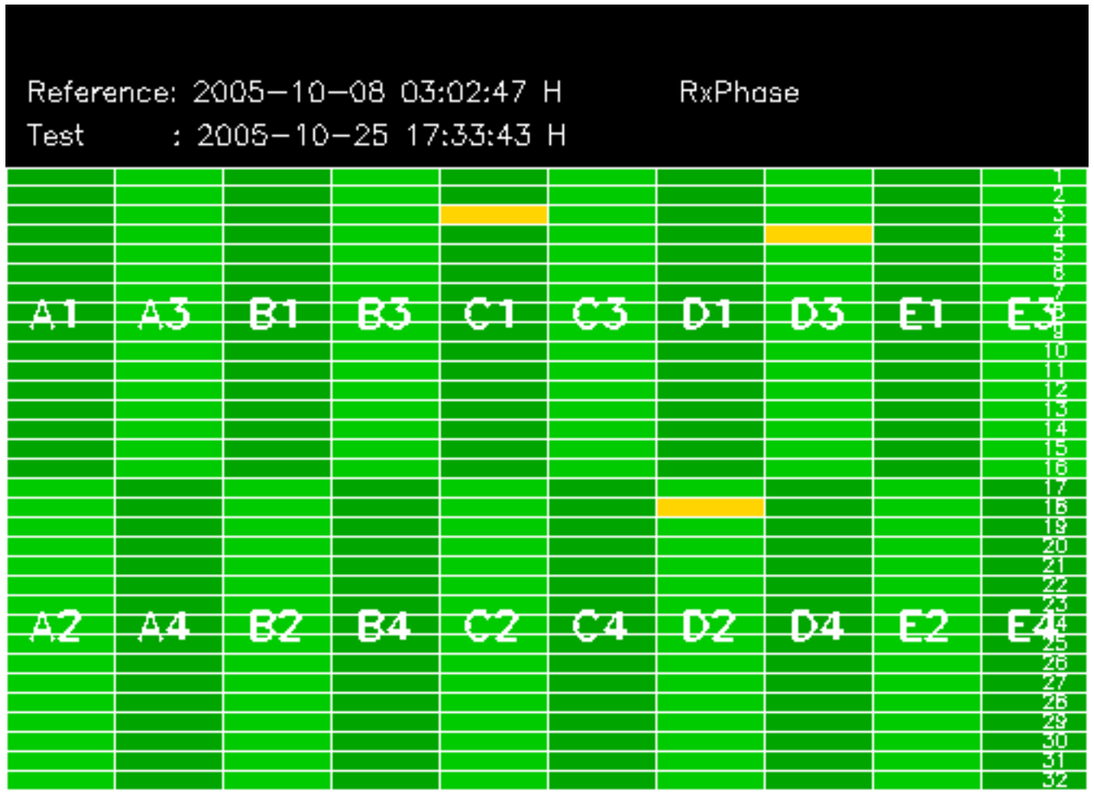
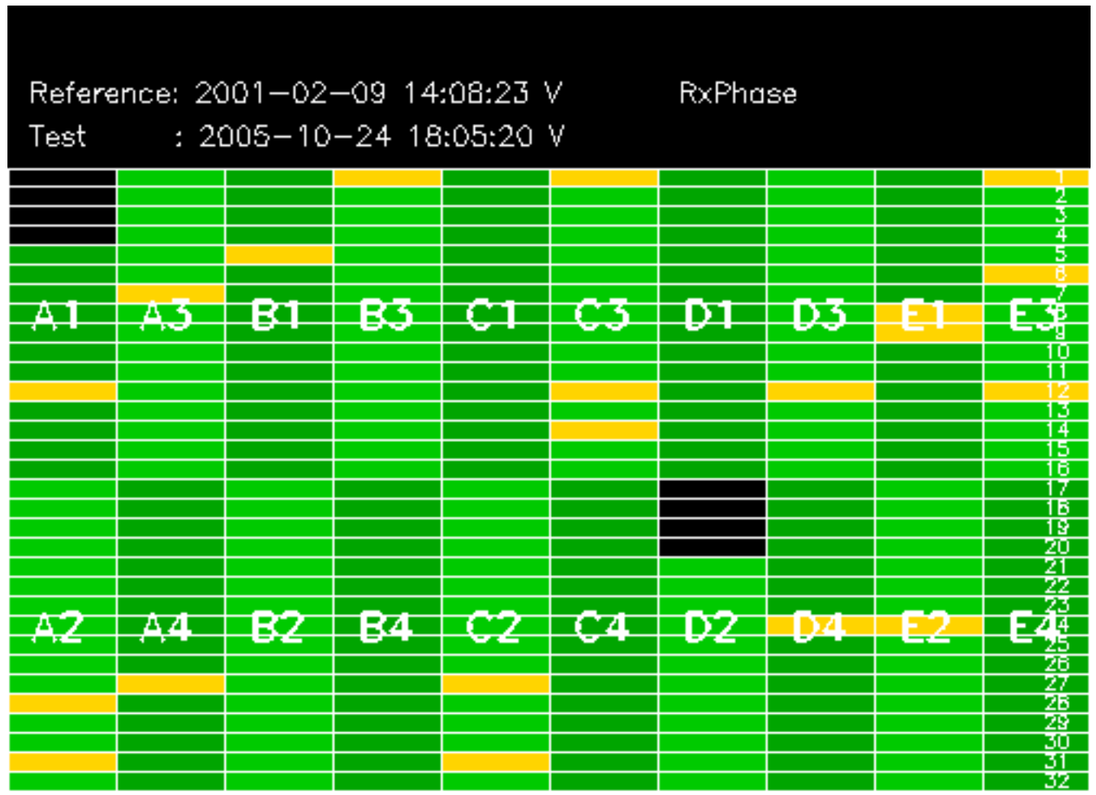
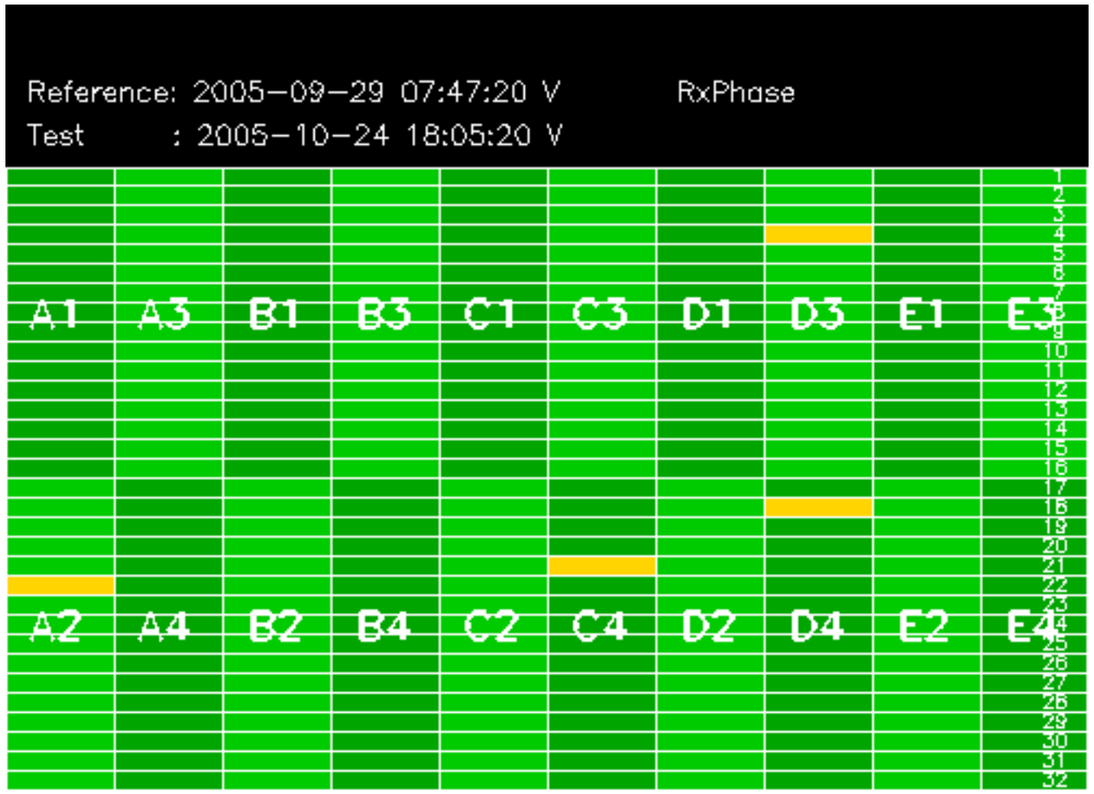

Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2005-10-25 17:33:43 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2005-10-24 18:05:20 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2005-10-24 18:05:20 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
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12
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14
15
16
17
18
19
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22
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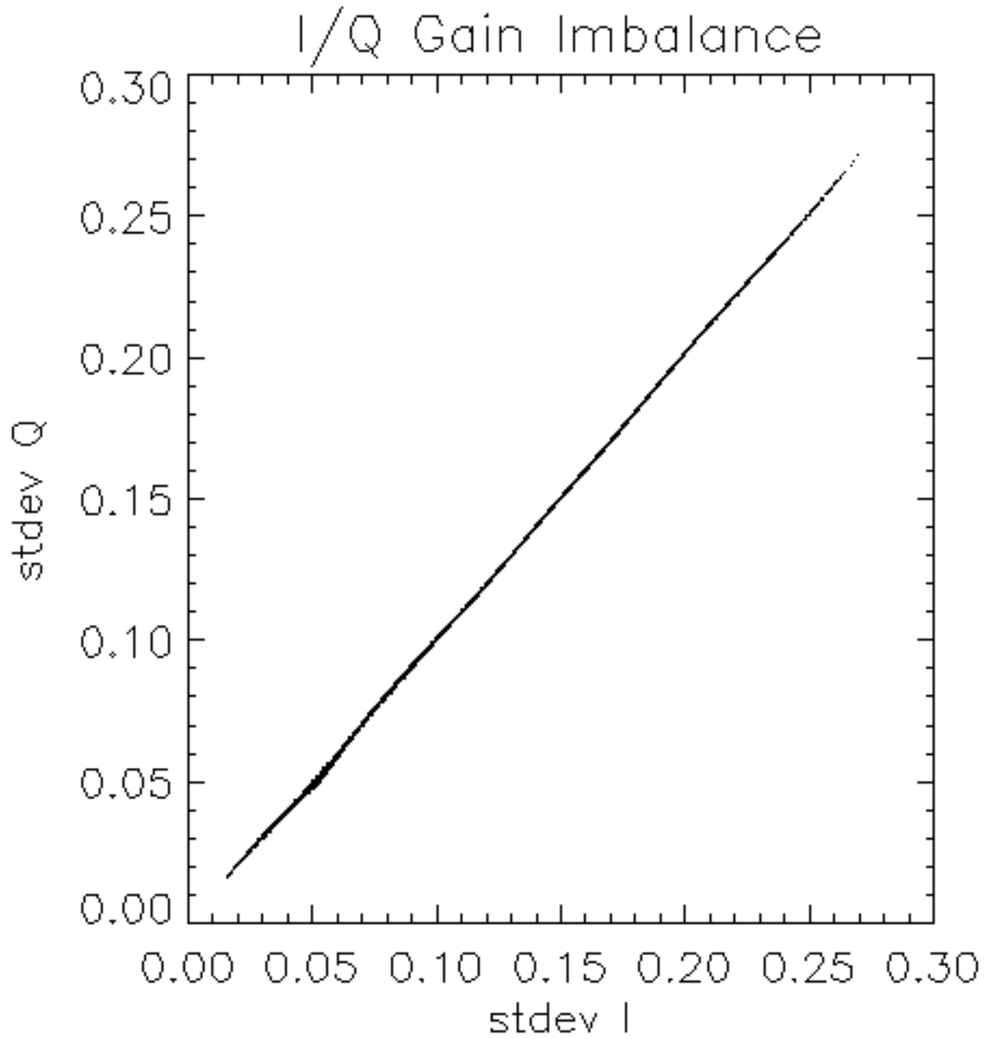
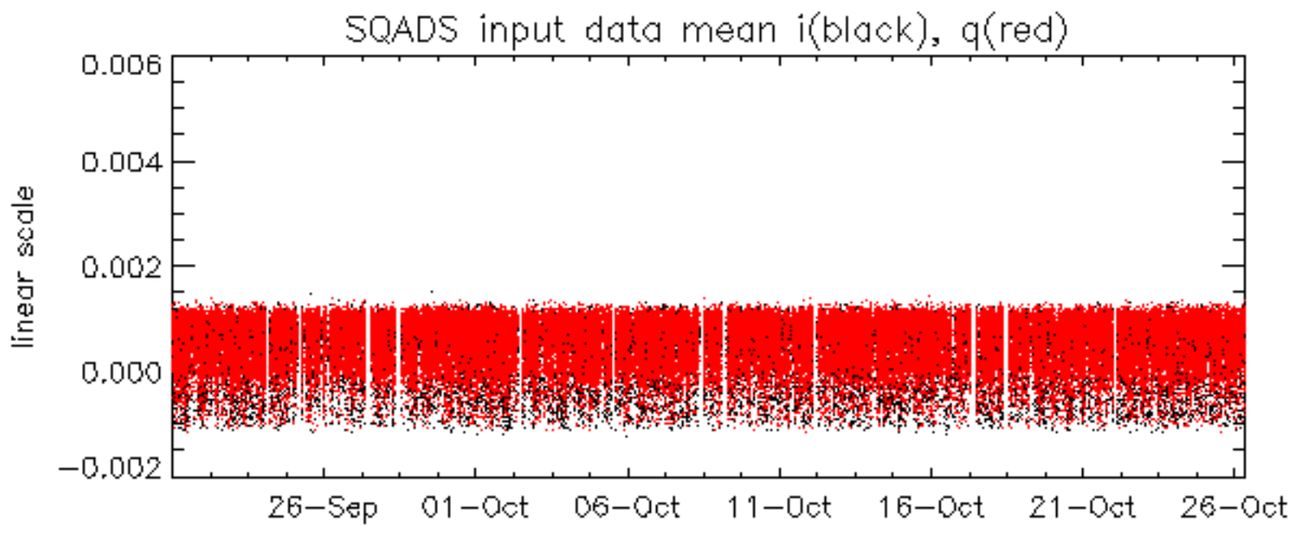
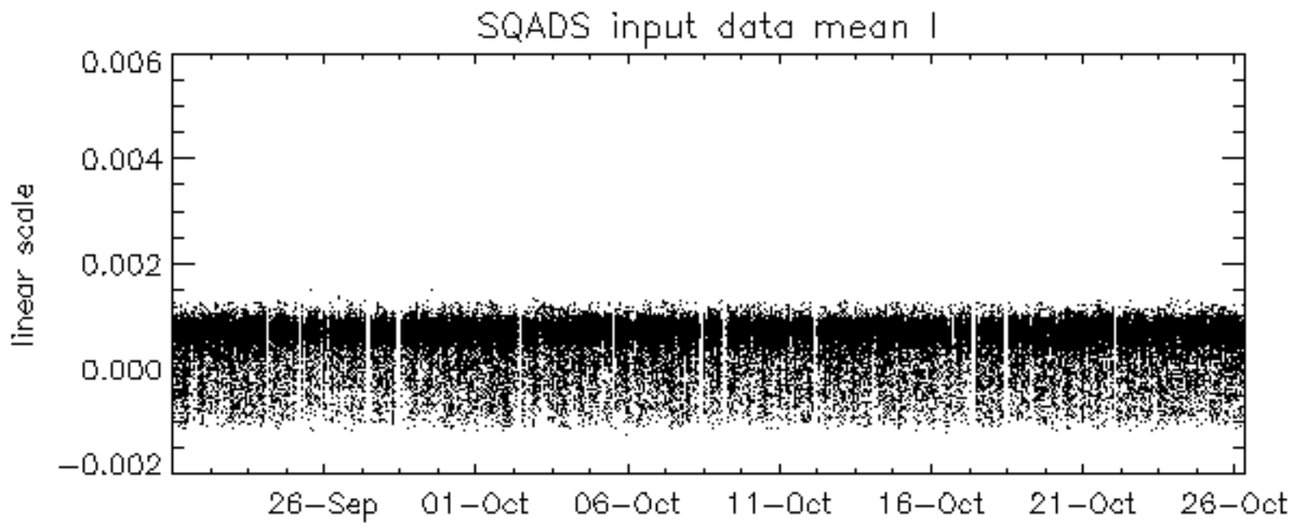
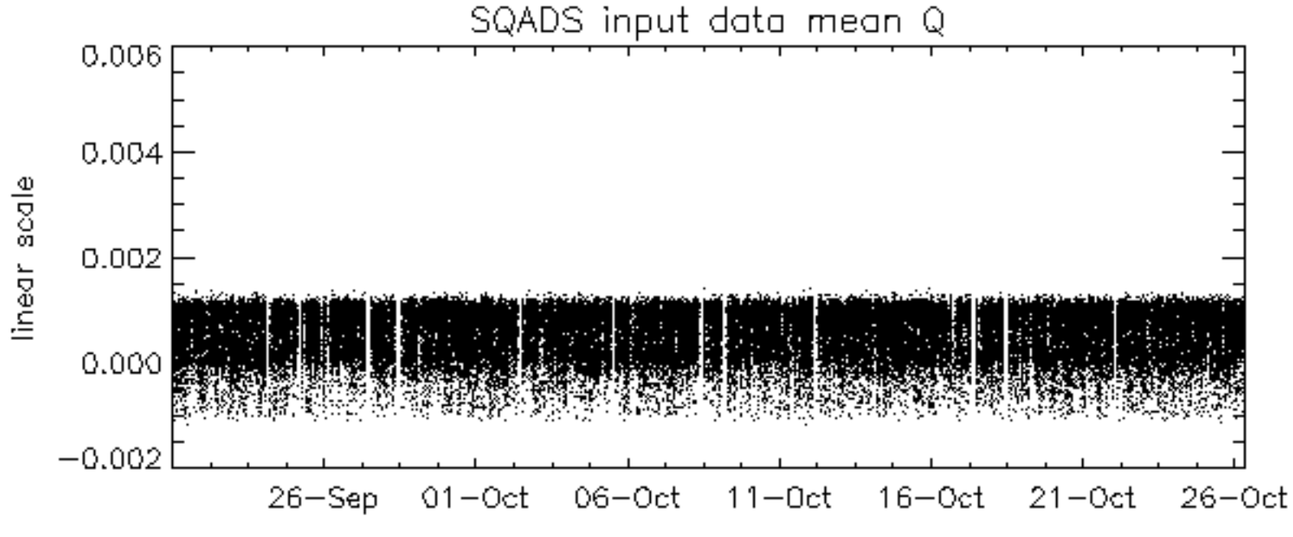
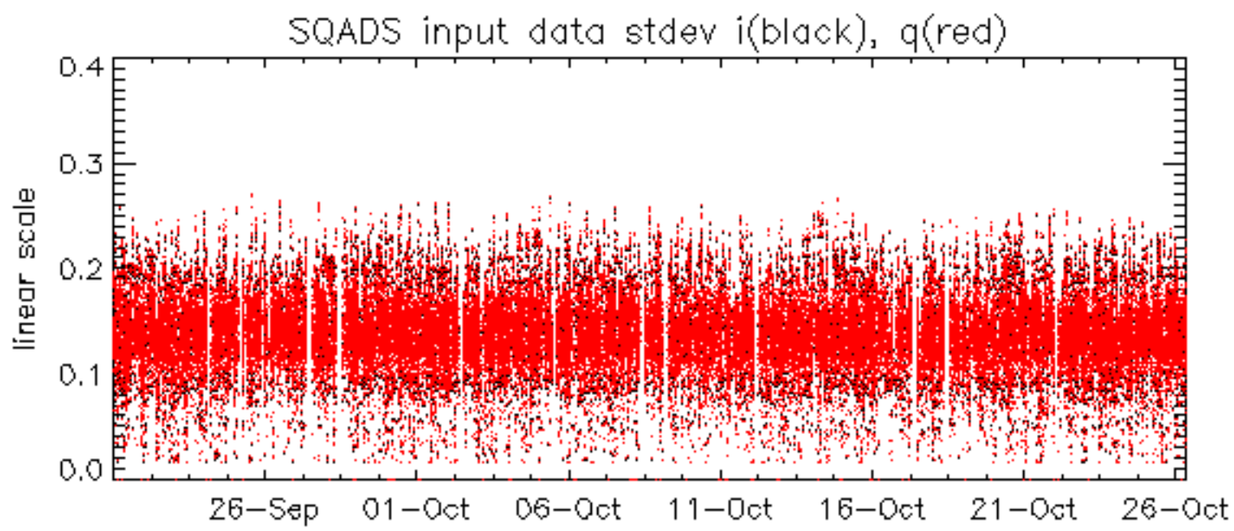
31
32

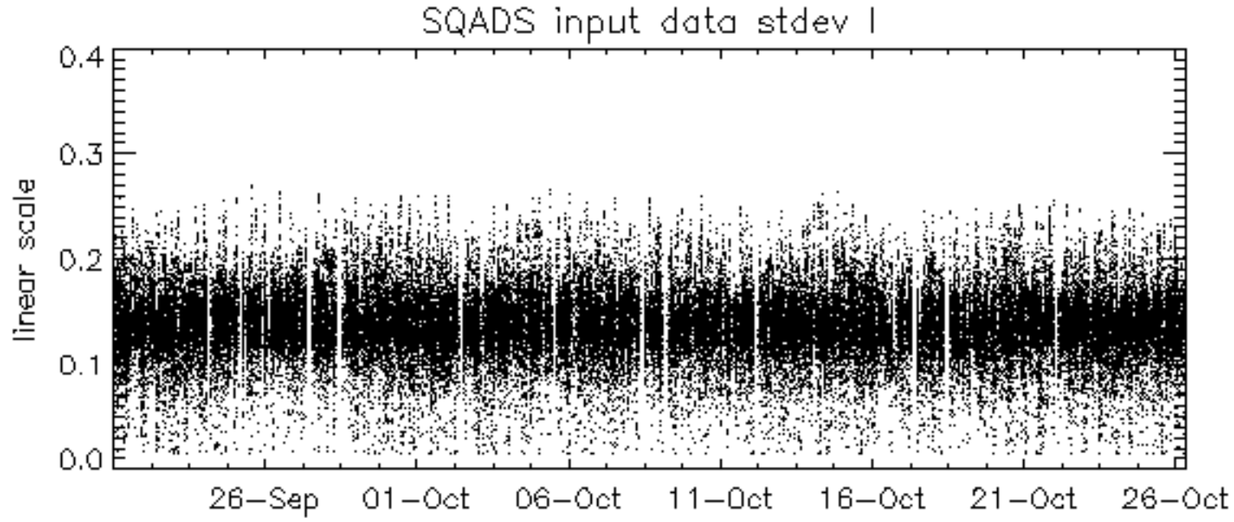

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

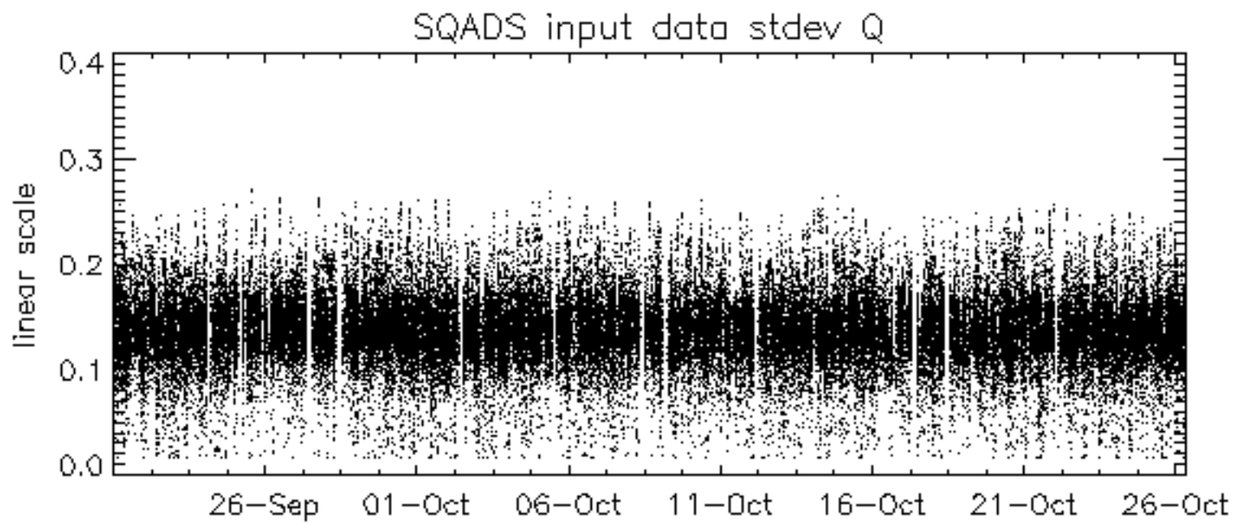

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct

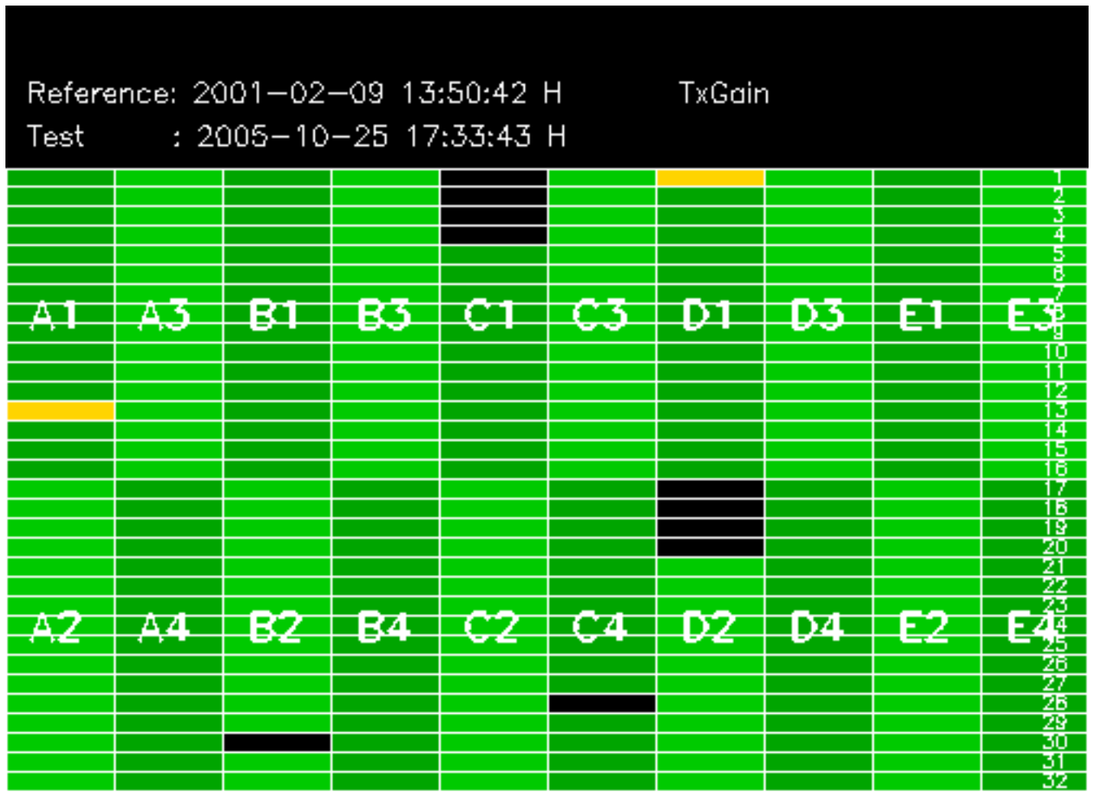

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct

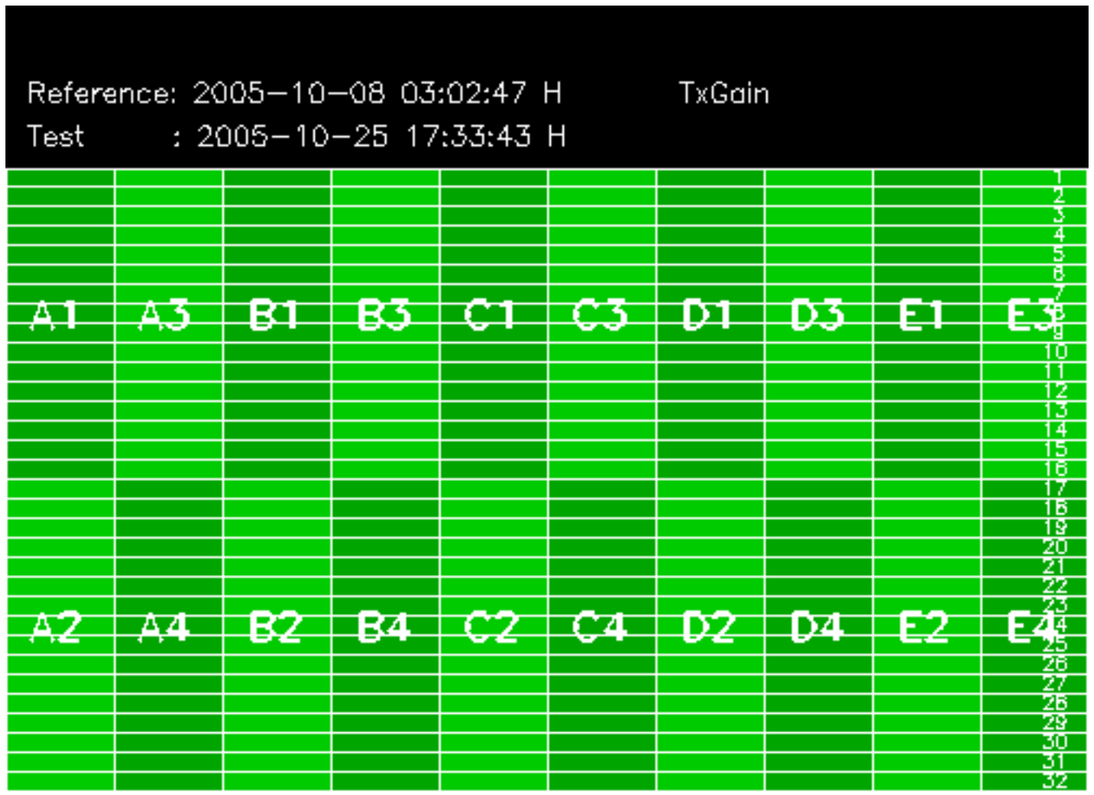

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct


Reference: 2001-02-09 13:50:42 H
Test : 2005-10-25 17:33:43 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
TxGain
Test : 2005-10-25 17:33:43 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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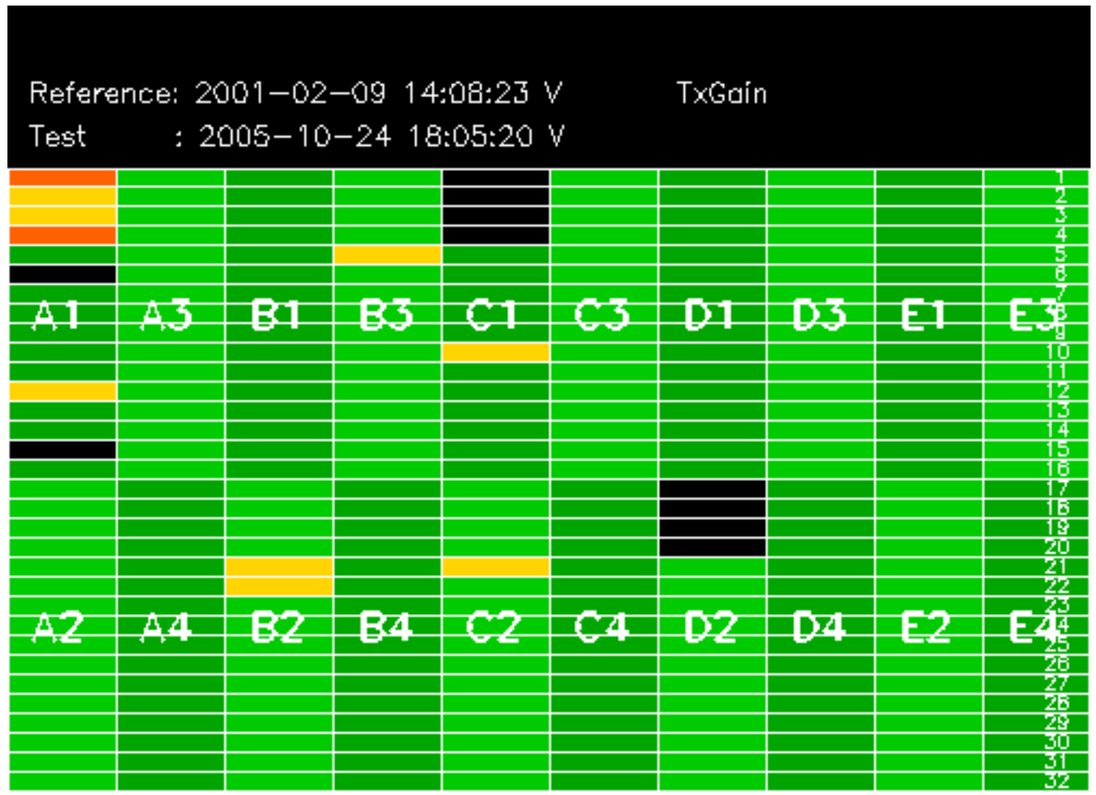
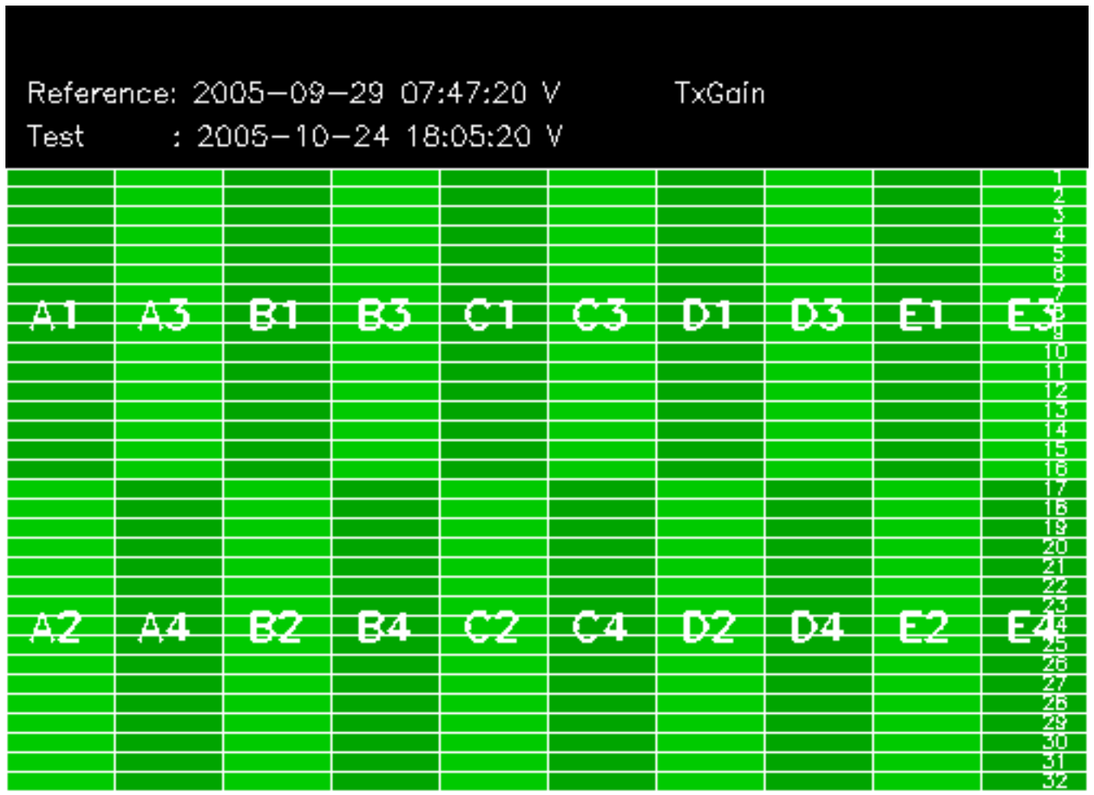

Reference: 2001-02-09 14:08:23 V
Test : 2005-10-24 18:05:20 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2005-10-24 18:05:20 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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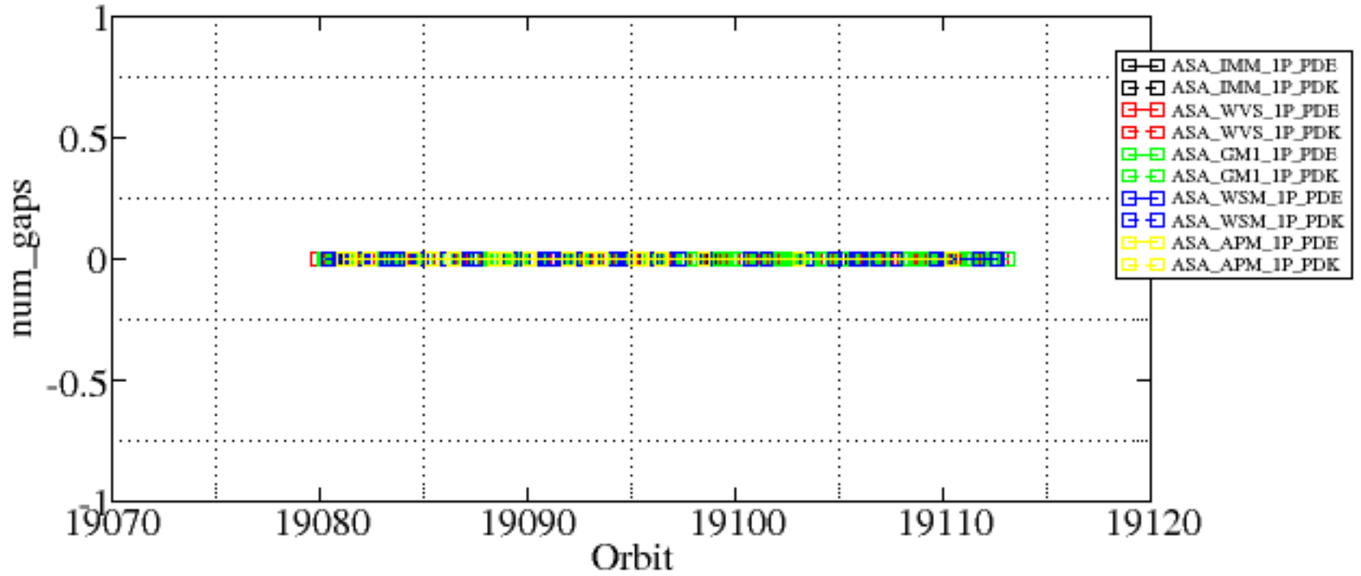
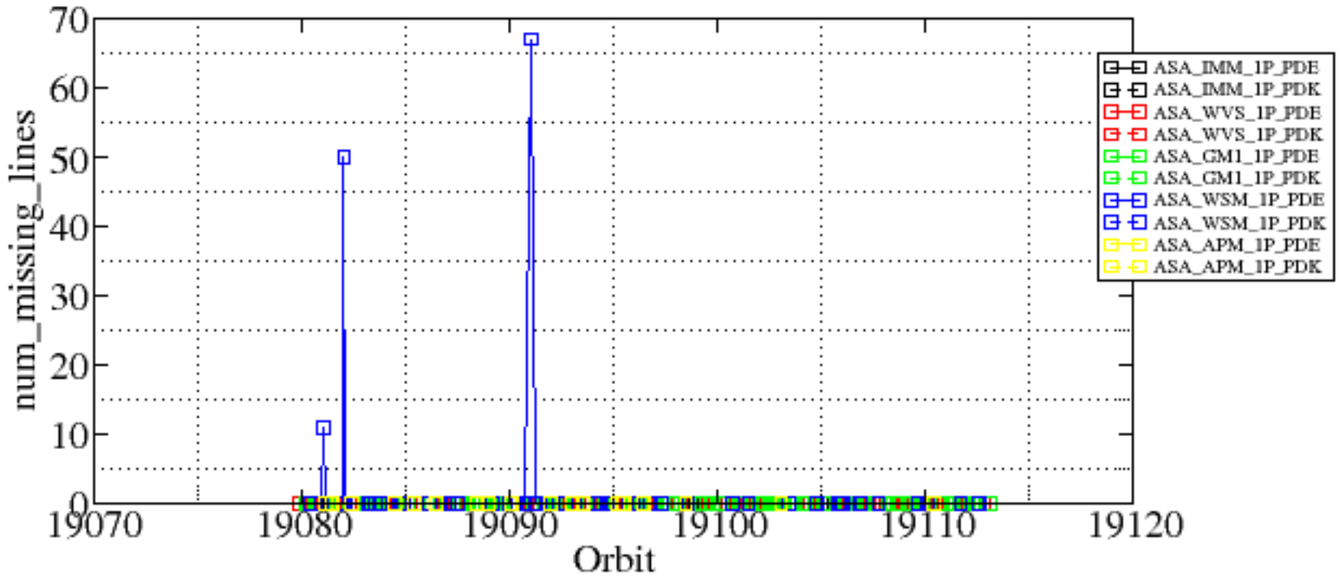
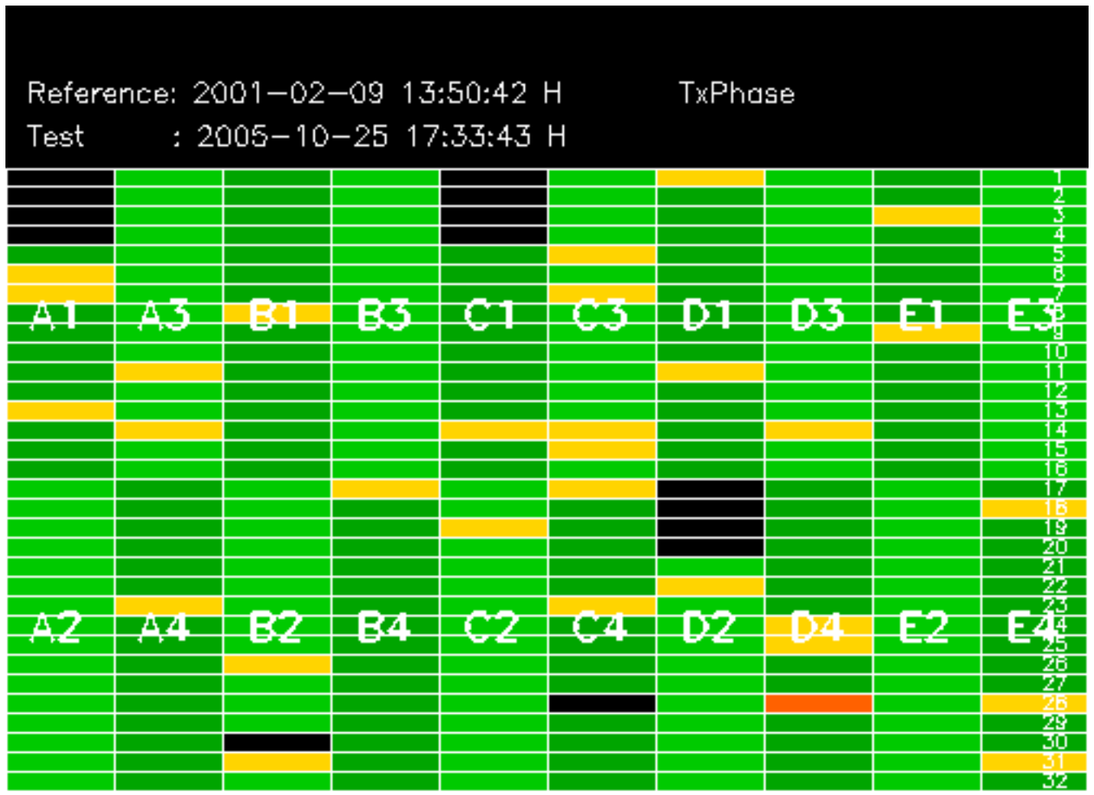
Summary of analysis for the last 3 days 2005102[456]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_WSM_1PNPDE20051024_015714_000001592041_00490_19081_5772.N1 </td> <td>0 </td> <td>11 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051024_033513_000000672041_00491_19082_5794.N1 </td> <td>0 </td> <td>50 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051024_184203_000003062041_00500_19091_5927.N1 </td> <td>0 </td> <td>67 </td></tr>
</table>


num_gaps
1
0.5
0
-0.5
-1
19070
19080
19090
19100
19110
19120
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
70
60
50
40
30
20
10
0
19070
19080
19090
19100
19110
19120
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
TxPhase
Test : 2005-10-25 17:33:43 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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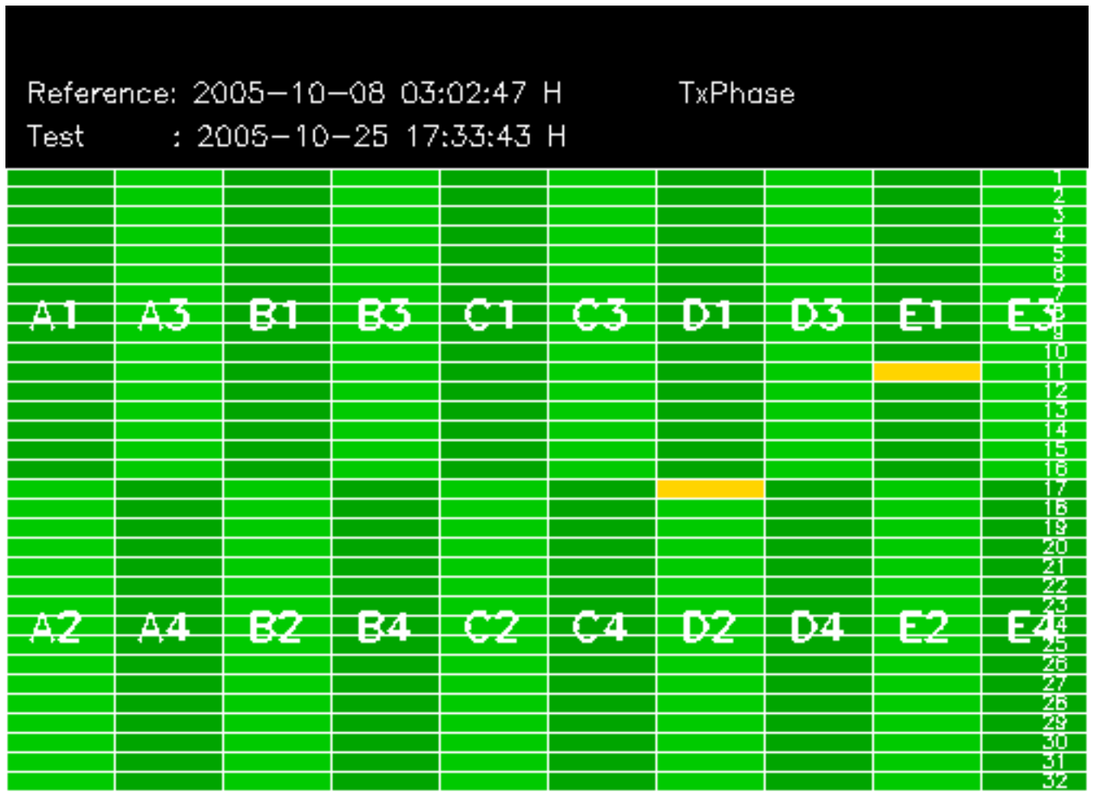
Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2005-10-25 17:33:43 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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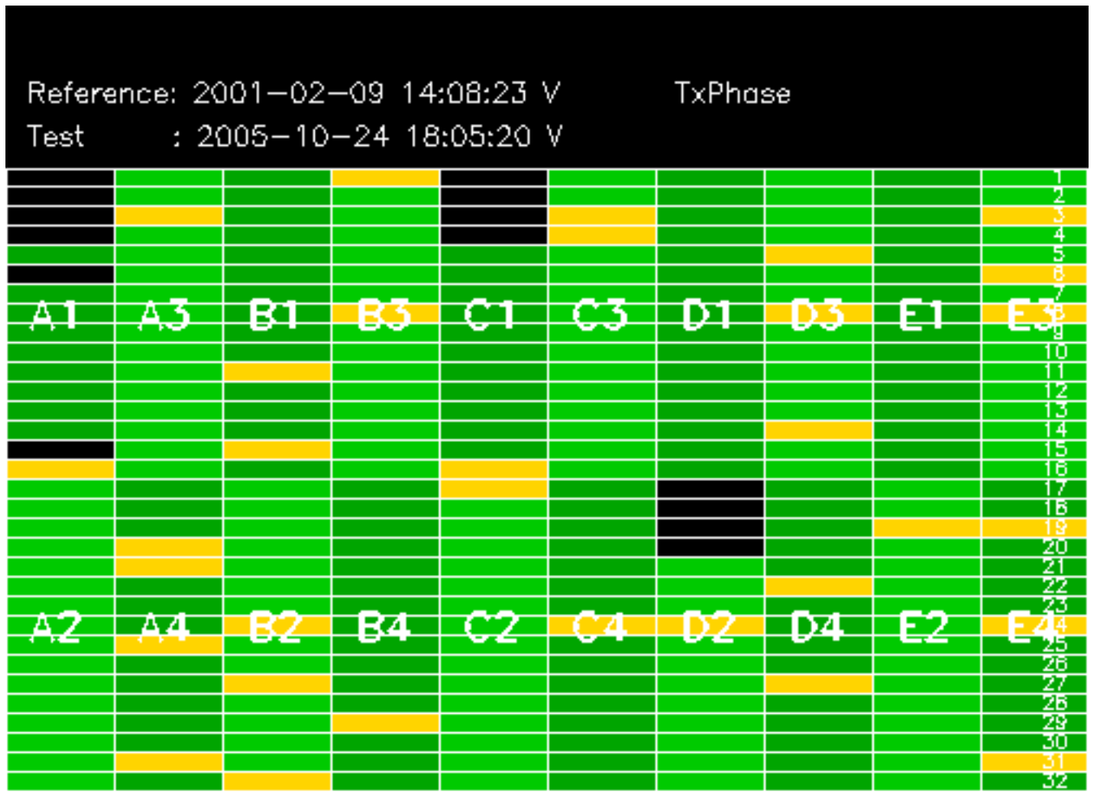
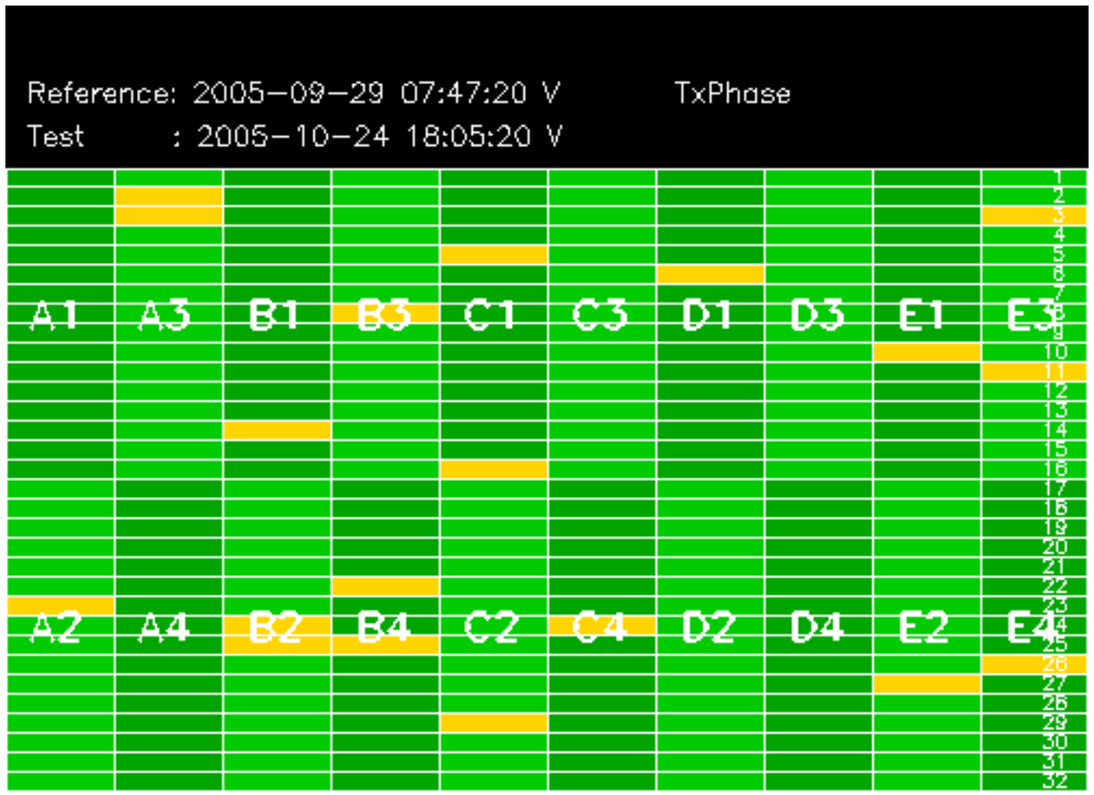

Reference: 2001-02-09 14:08:23 V
TxPhase
Test : 2005-10-24 18:05:20 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2005-10-24 18:05:20 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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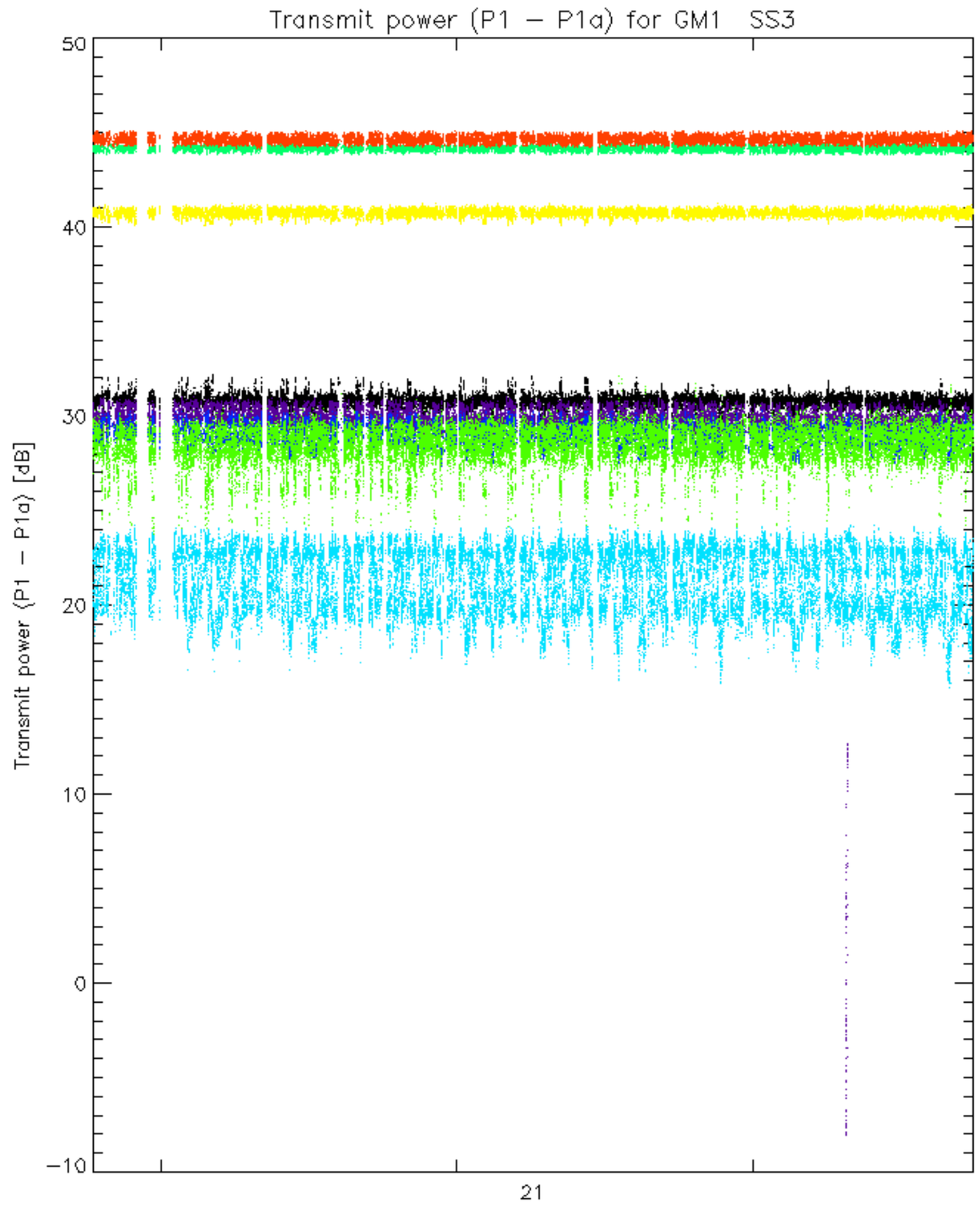
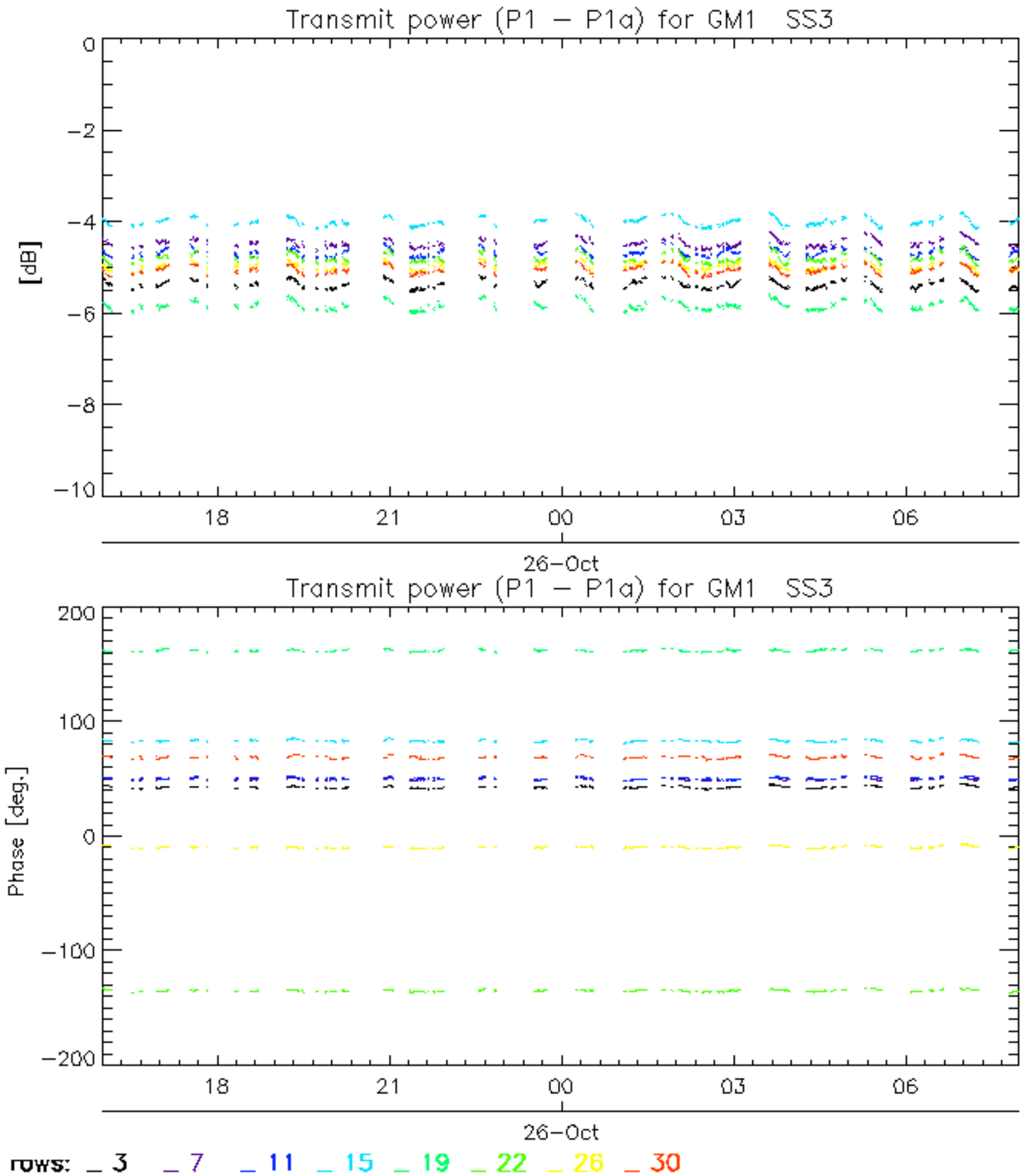
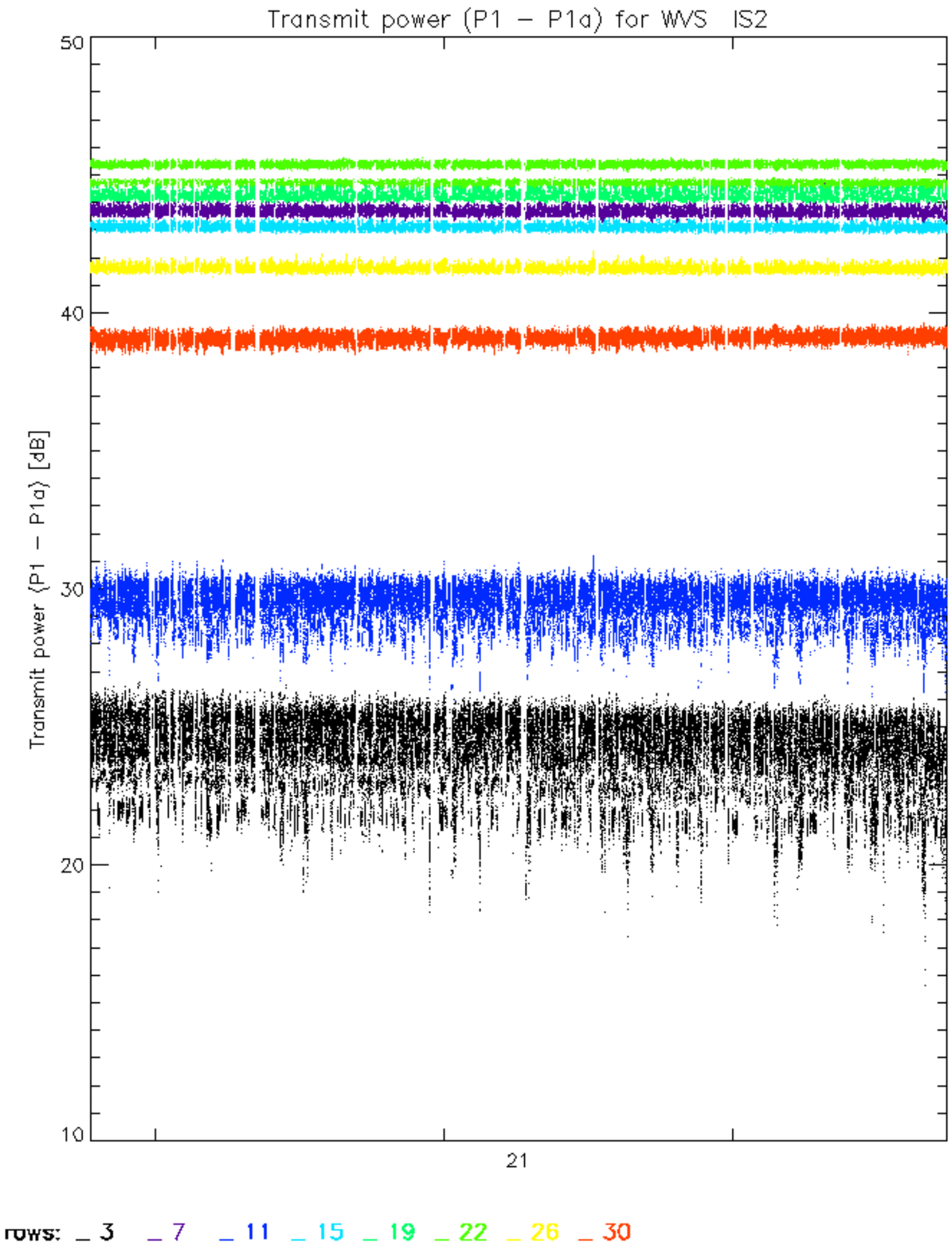
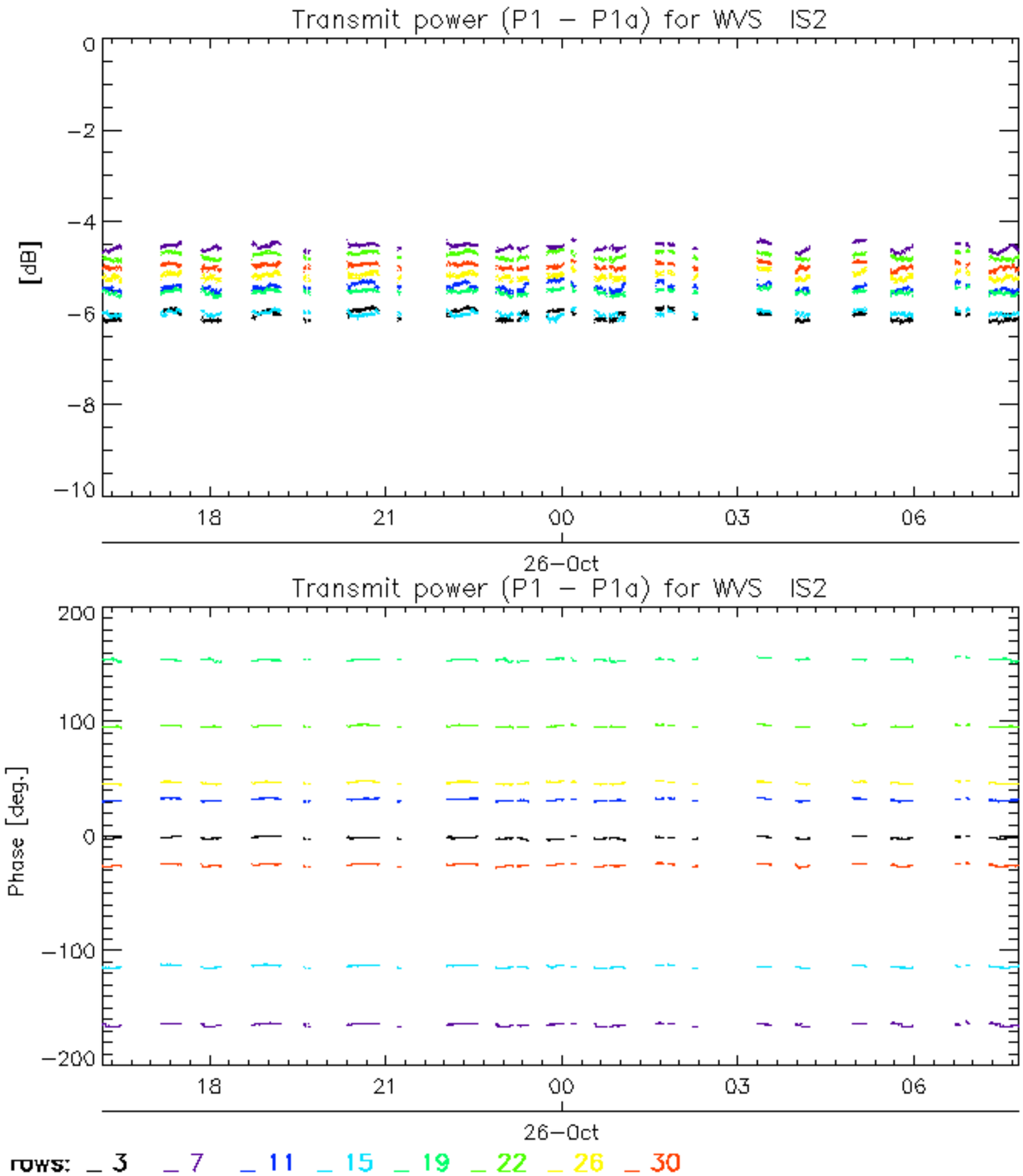

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
21
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
26–Oct
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
26–Oct
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
50
40
30
20
10
Transmit power (P1 – P1a) [dB]
21
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
26–Oct
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
26–Oct
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.