PRELIMINARY REPORT OF 060809

last update on Wed Aug 9 16:39:24 GMT 2006

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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 2006-08-08 00:00:00 to 2006-08-09 16:39:24

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	37	67	7	5	0
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	37	67	7	5	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	37	67	7	5	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	37	67	7	5	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	37	60	24	23	74
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	37	60	24	23	74
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	37	60	24	23	74
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	37	60	24	23	74

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	20060808 085034
H	20060809 081857

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	-3.939589	0.010439	-0.015212
7	P1	-3.114041	0.048358	-0.067928
11	P1	-4.100789	0.061636	-0.086161
15	P1	-6.197727	0.091286	-0.125759
19	P1	-3.419492	0.009951	-0.064611
22	P1	-4.554871	0.010092	-0.025206
26	P1	-3.923092	0.019976	0.010946
30	P1	-5.764397	0.009532	-0.000342
3	P1	-16.531864	0.247563	-0.028020
7	P1	-17.188944	0.129511	0.047095
11	P1	-16.955301	0.285862	0.162984
15	P1	-13.061482	0.181305	0.240433
19	P1	-14.479946	0.053925	-0.053814
22	P1	-15.981637	0.430077	0.130866
26	P1	-15.116834	0.232459	-0.017572
30	P1	-17.092113	0.339043	0.066679

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.936457	0.086558	0.123543
7	P2	-21.887894	0.102697	0.083718
11	P2	-15.779211	0.119417	0.040394
15	P2	-7.121908	0.098531	0.034127
19	P2	-9.129397	0.089948	0.026686
22	P2	-18.149172	0.085790	0.007790
26	P2	-16.401802	0.091710	0.007325
30	P2	-19.507965	0.091581	0.048470

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.173041	0.003134	0.005076
7	P3	-8.173041	0.003134	0.005076
11	P3	-8.173041	0.003134	0.005076
15	P3	-8.173041	0.003134	0.005076
19	P3	-8.173041	0.003134	0.005076
22	P3	-8.173041	0.003134	0.005076
26	P3	-8.173041	0.003134	0.005076
30	P3	-8.173041	0.003134	0.005076

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1
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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	-3.823153	0.008870	-0.010366
7	P1	-2.589871	0.121777	-0.178016
11	P1	-2.884901	0.120162	-0.168761
15	P1	-3.611552	0.137089	-0.213561
19	P1	-3.424632	0.024033	-0.008482
22	P1	-5.084563	0.019584	0.007776
26	P1	-5.861312	0.015940	-0.004768
30	P1	-5.197561	0.033354	0.010345
3	P1	-11.618352	0.043387	-0.014545
7	P1	-9.973552	0.046715	-0.044079
11	P1	-10.257314	0.061306	-0.067728
15	P1	-10.754877	0.144294	-0.014644
19	P1	-15.557450	0.498679	-0.022612
22	P1	-20.924538	1.304958	0.043266

26	P1	-16.244818	0.385496	0.217873
30	P1	-17.947670	0.409341	-0.146513

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.563097	0.073076	0.182199
7	P2	-22.354923	0.118667	0.152087
11	P2	-11.023450	0.041059	0.089532
15	P2	-4.899920	0.044659	0.047743
19	P2	-6.867132	0.039832	0.028104
22	P2	-8.190497	0.035103	0.016301
26	P2	-24.180367	0.060018	0.017384
30	P2	-21.997463	0.047987	0.054687

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.011496	0.003741	0.007609
7	P3	-8.011461	0.003743	0.007321
11	P3	-8.011483	0.003744	0.006854
15	P3	-8.011500	0.003741	0.007133
19	P3	-8.011430	0.003755	0.007601
22	P3	-8.011534	0.003734	0.007203
26	P3	-8.011476	0.003735	0.007154
30	P3	-8.011469	0.003744	0.007268

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	0.000562350
	stdev	1.71375e-07
MEAN Q	mean	0.000537697
	stdev	2.13841e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.137574
	stdev	0.00108014
STDEV Q	mean	0.137930
	stdev	0.00109753

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006080[789]
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_IMM_1PNPDE20060807_002903_000000512050_00088_23188_3070.N1	1	0
ASA_WSM_1PNPDE20060808_000918_000000852050_00102_23202_6545.N1	0	35
ASA_WSM_1PNPDE20060808_014653_000001462050_00103_23203_6563.N1	0	40
ASA_WSM_1PNPDE20060808_233741_000003292050_00116_23216_6720.N1	0	35

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

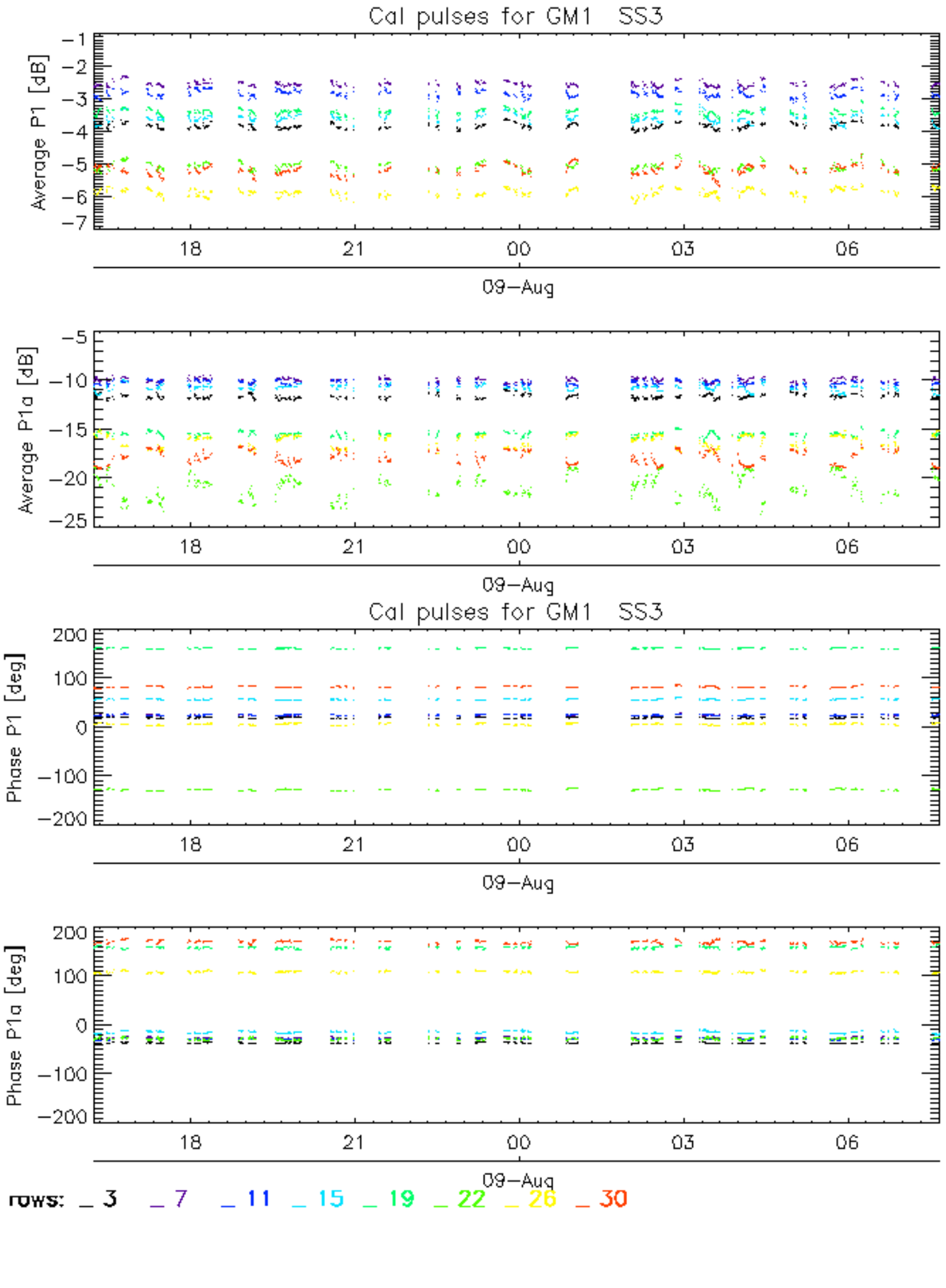
Evolution of unbiased Doppler error (Real - Expected)
Acsending
Descending

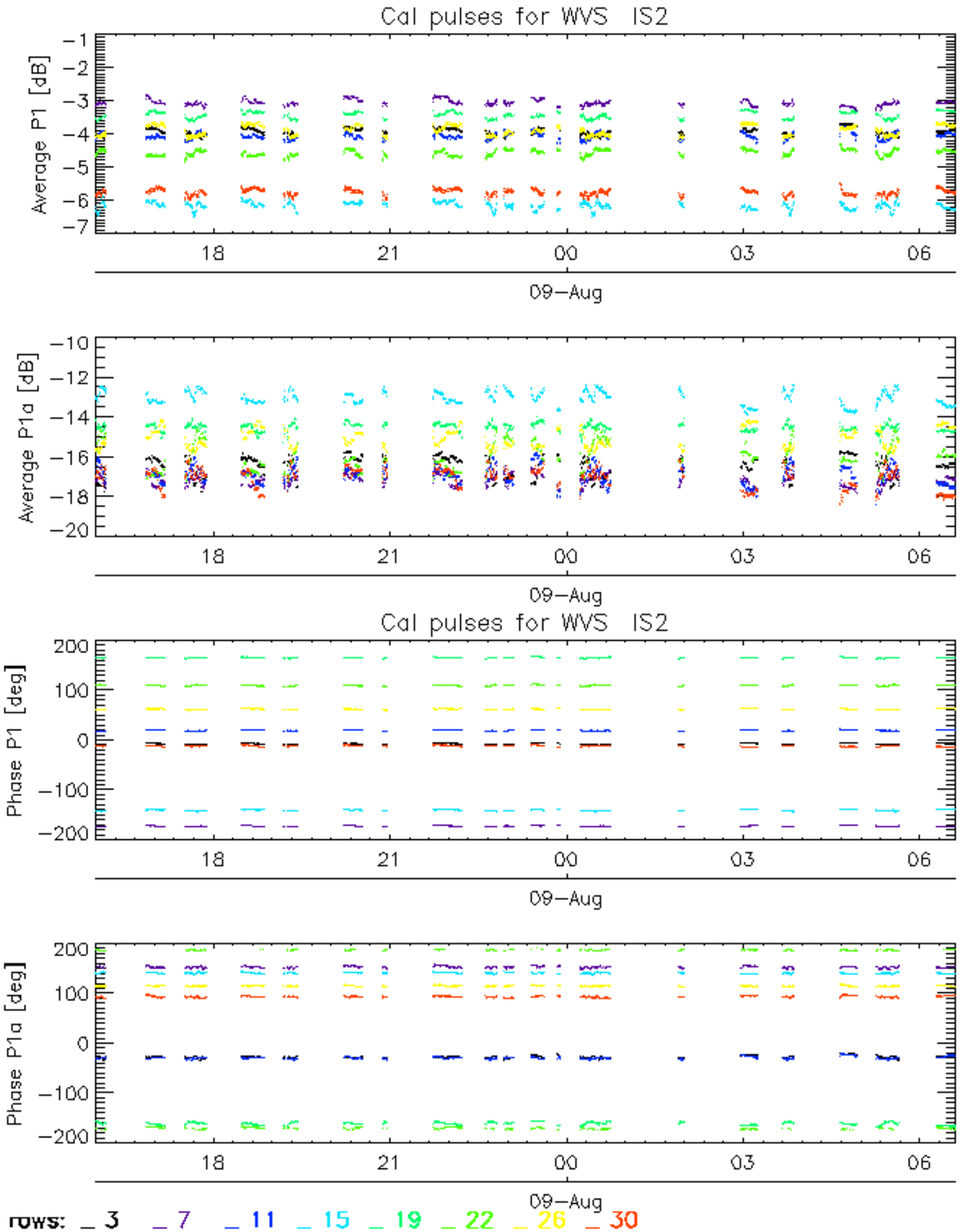
7.5 - Absolute Doppler for GM1

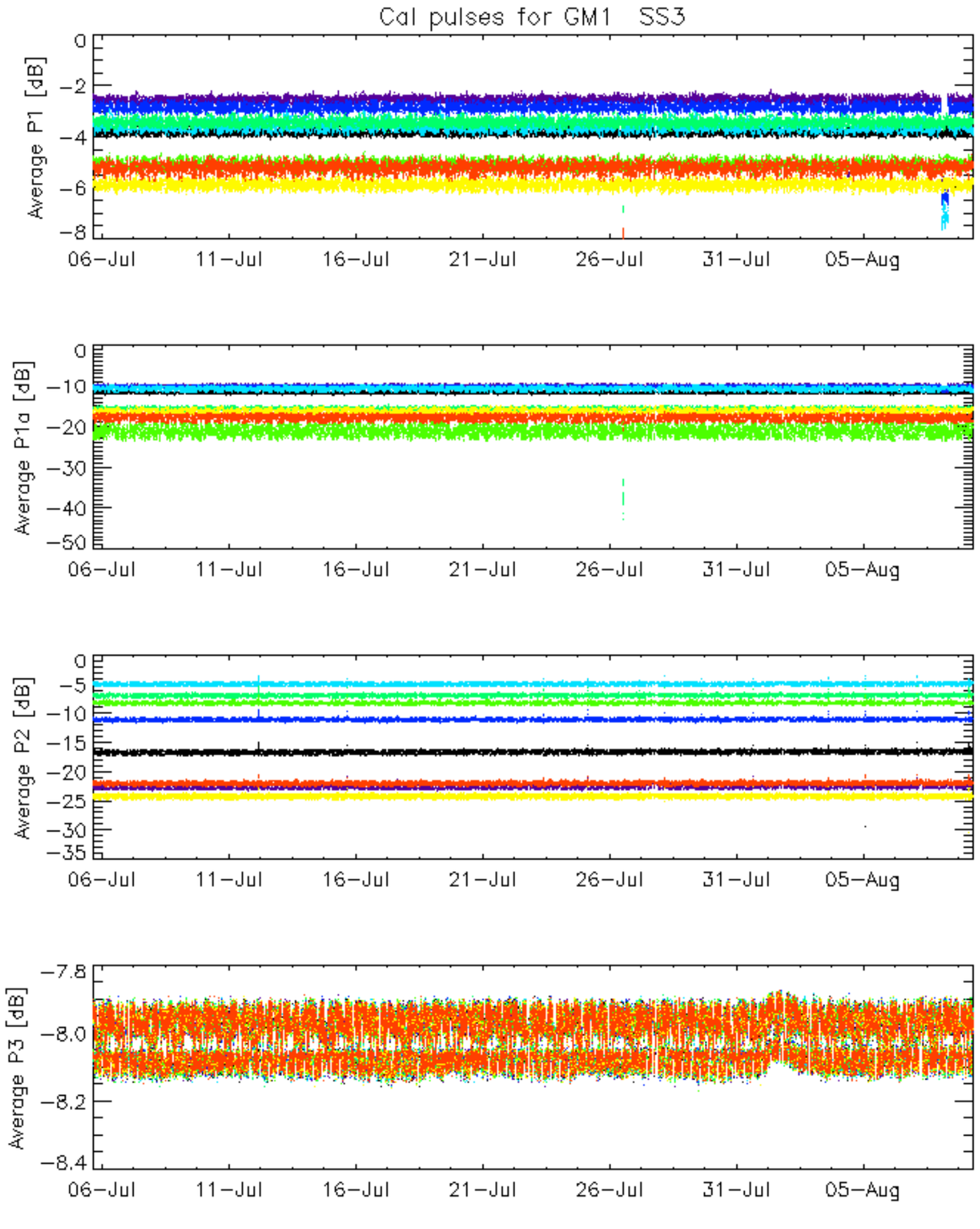
Evolution of Absolute Doppler
Acsending
Descending

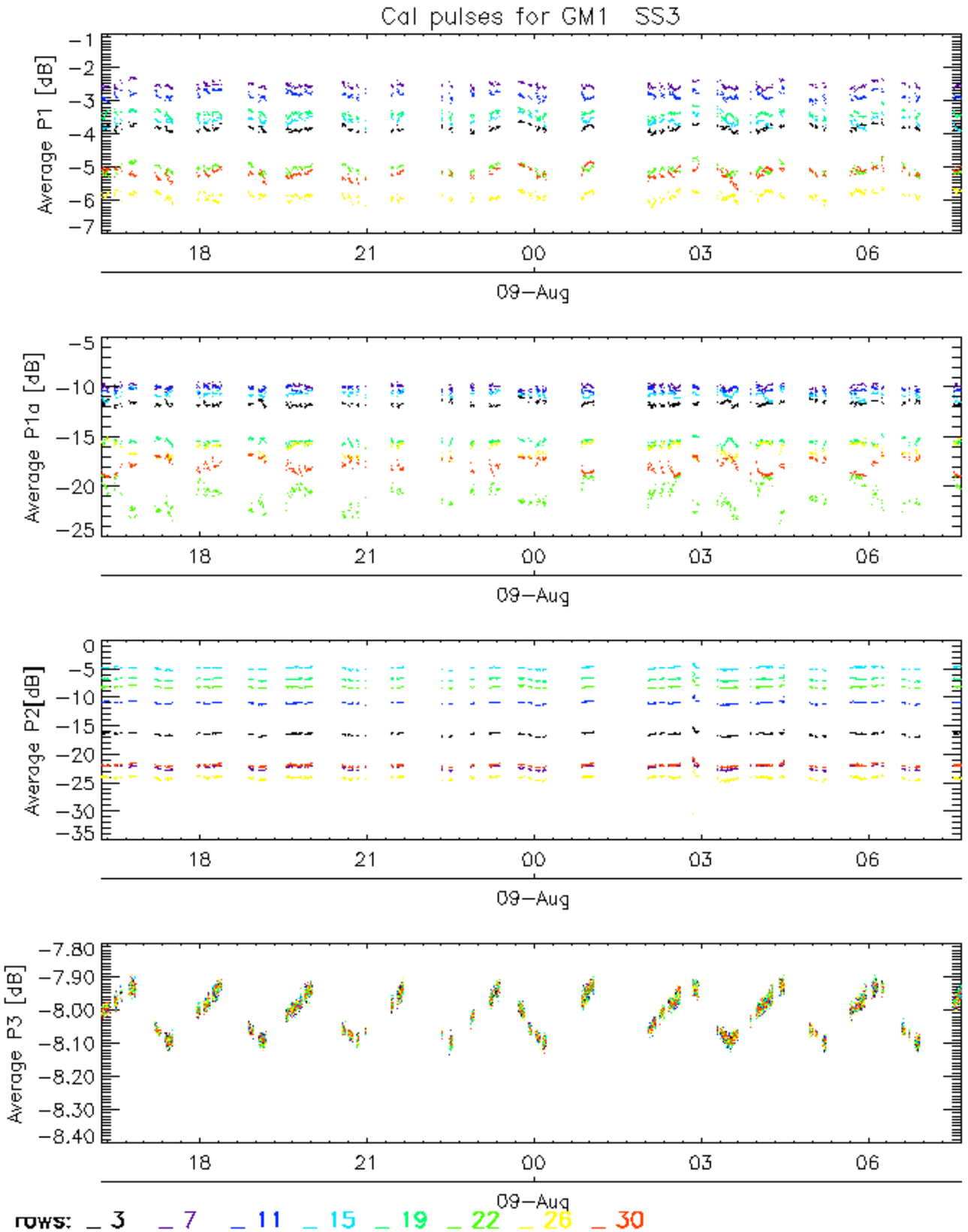
7.6 - Doppler evolution versus ANX for GM1

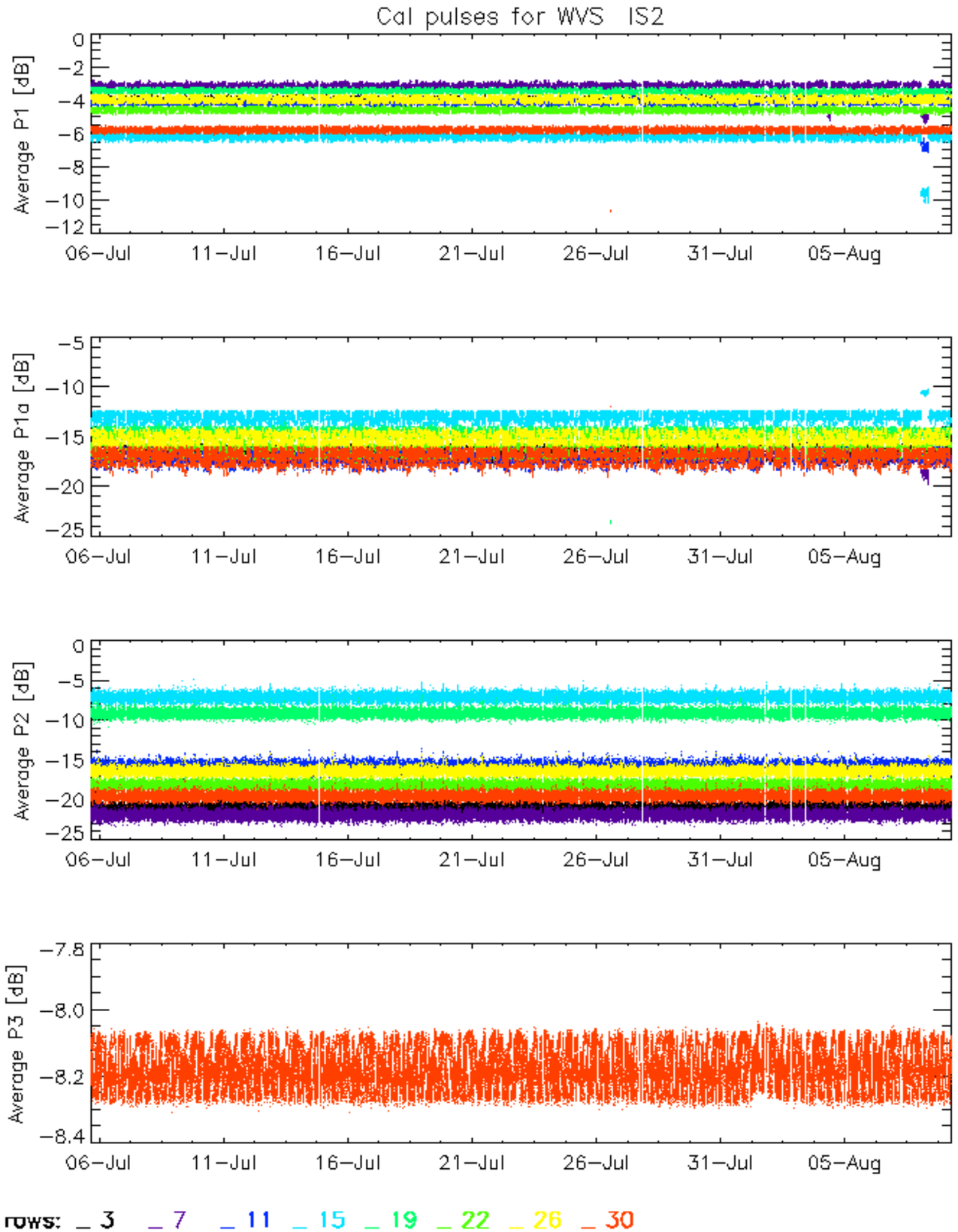
Evolution Doppler error versus ANX

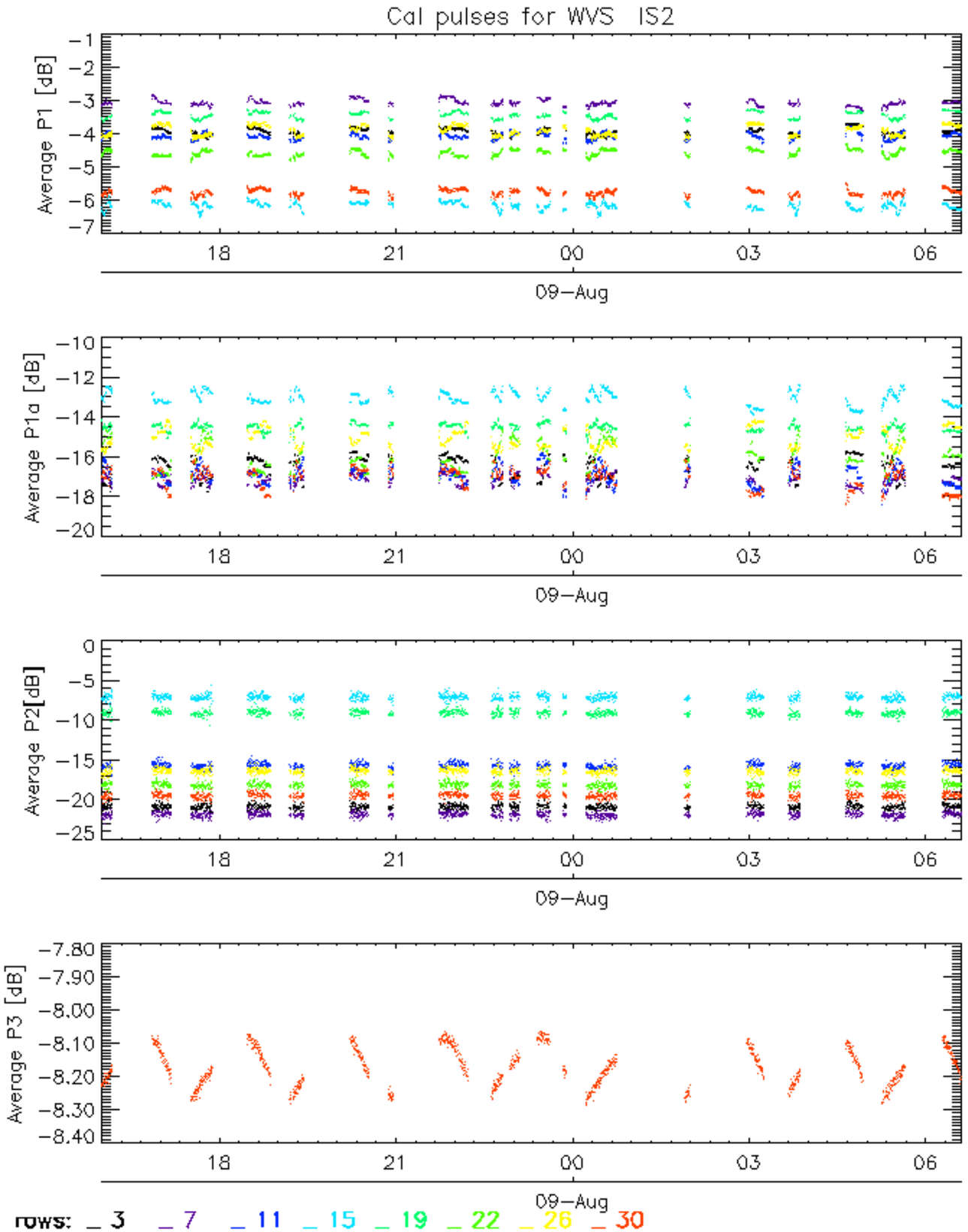

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
09−Aug
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
09−Aug
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
09−Aug
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
09−Aug
rows: _ 3 _ 7 _ 11 _ 15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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
09−Aug
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
09−Aug
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
09−Aug
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
09−Aug
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]
0
−10
−20
−30
−40
−50
Average P2 [dB]
0
−5
−10
−15
−20
−25
−30
−35
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
06−Jul
11−Jul
16−Jul
21−Jul
26−Jul
31−Jul
05−Aug
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

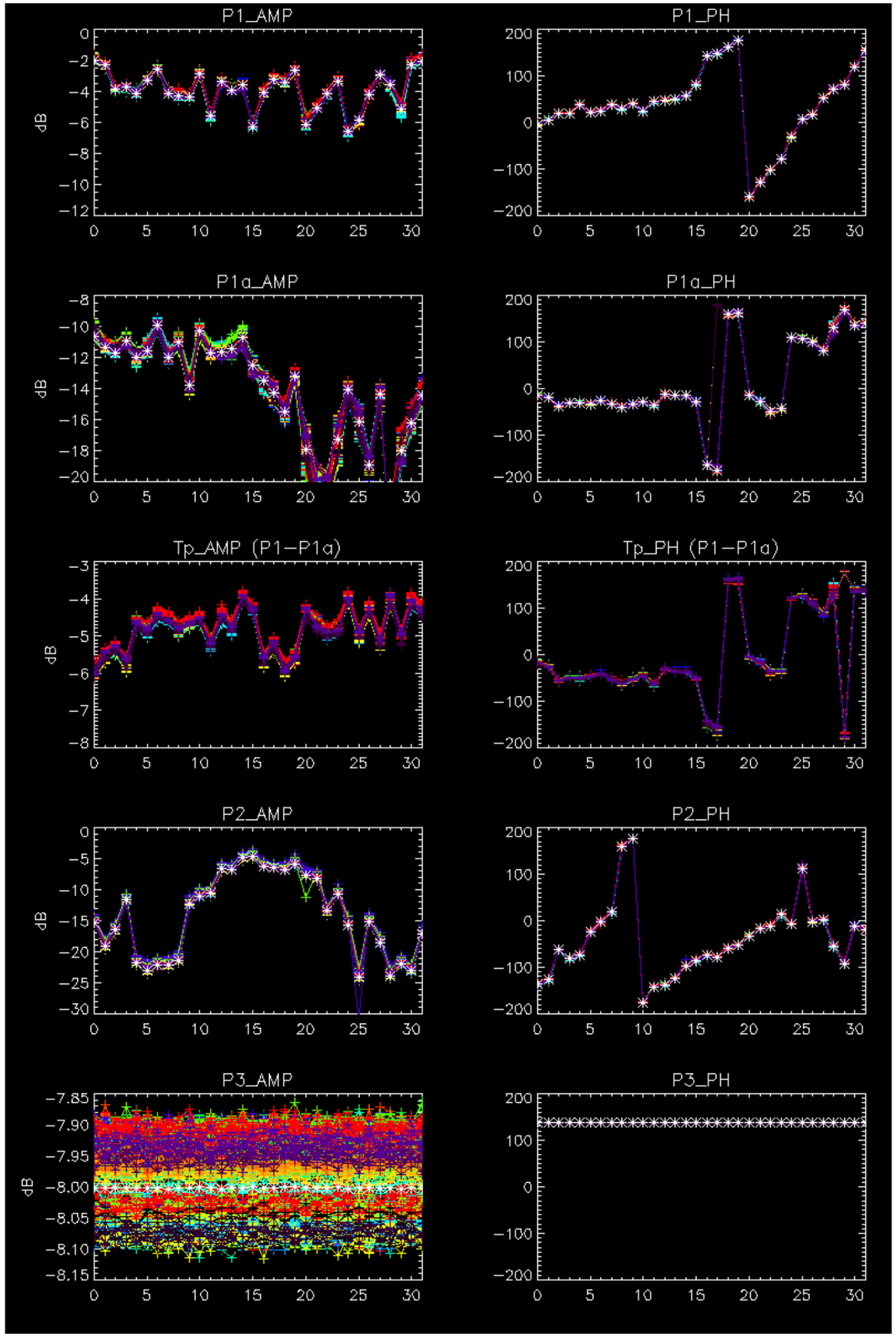

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
09−Aug
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
09−Aug
Average P2[dB]
0
−5
−10
−15
−20
−25
−30
−35
18
21
00
03
06
09−Aug
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
09−Aug
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

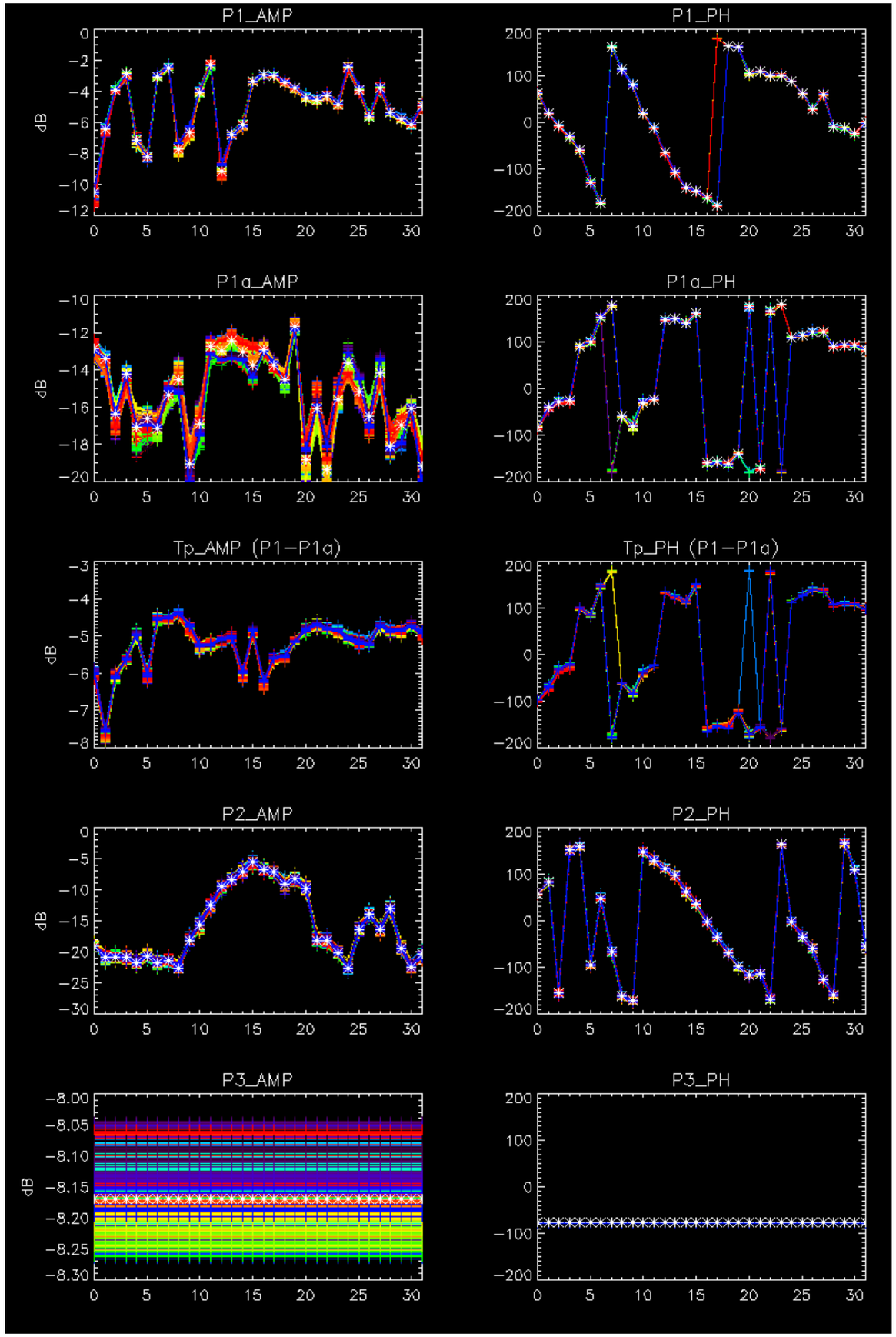

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
06−Jul
11−Jul
16−Jul
21−Jul
26−Jul
31−Jul
05−Aug
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

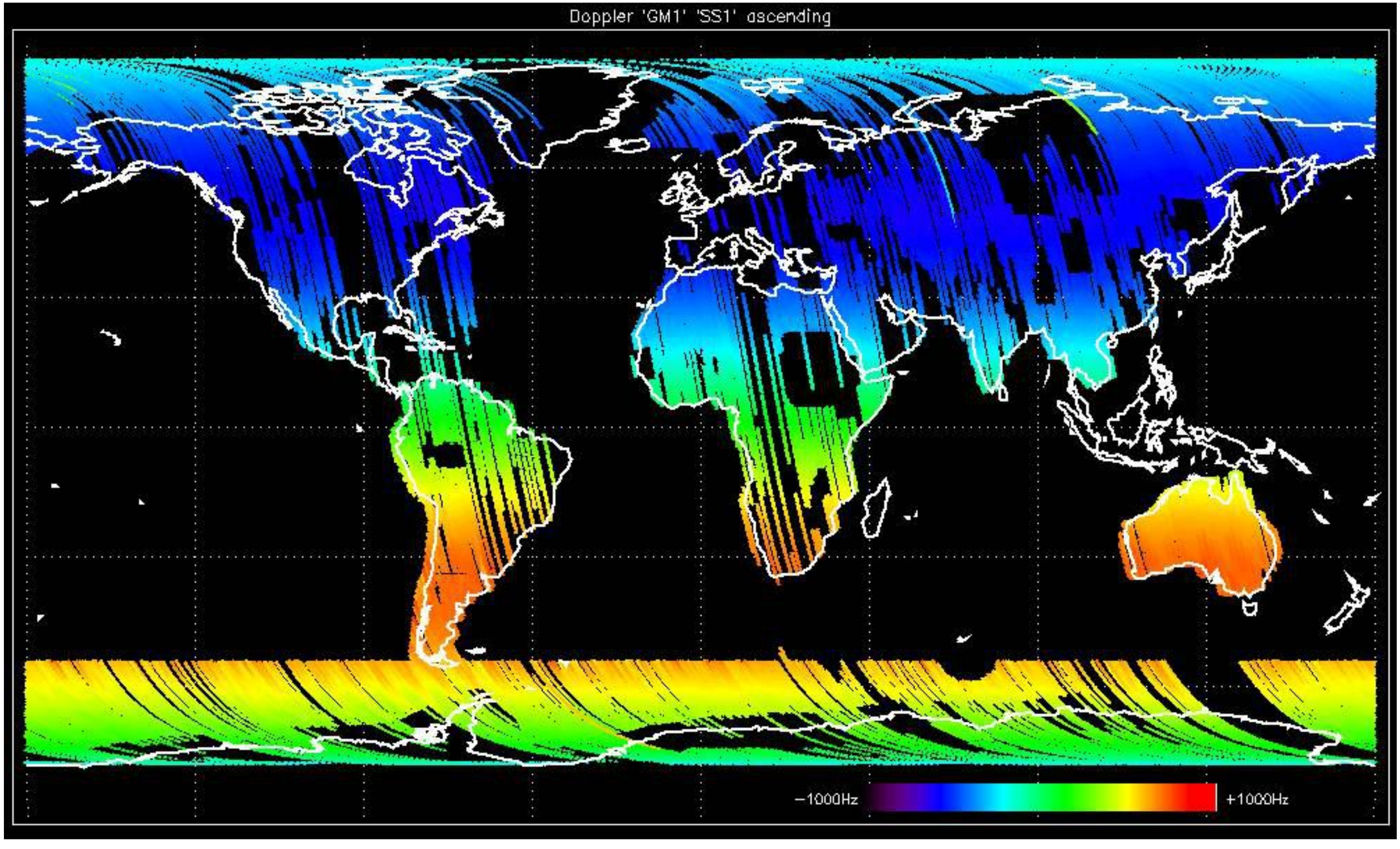
No anomalies observed.

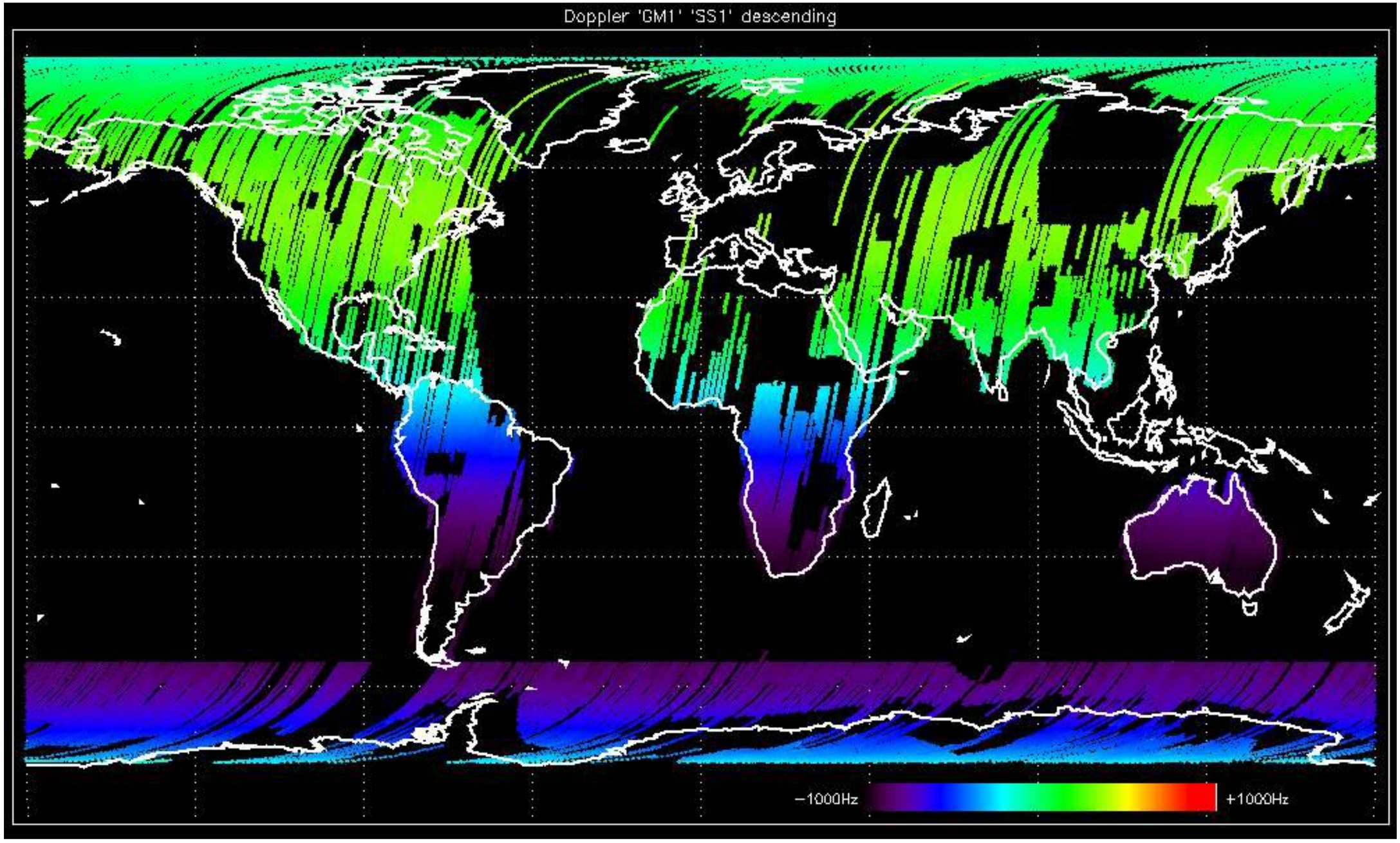

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

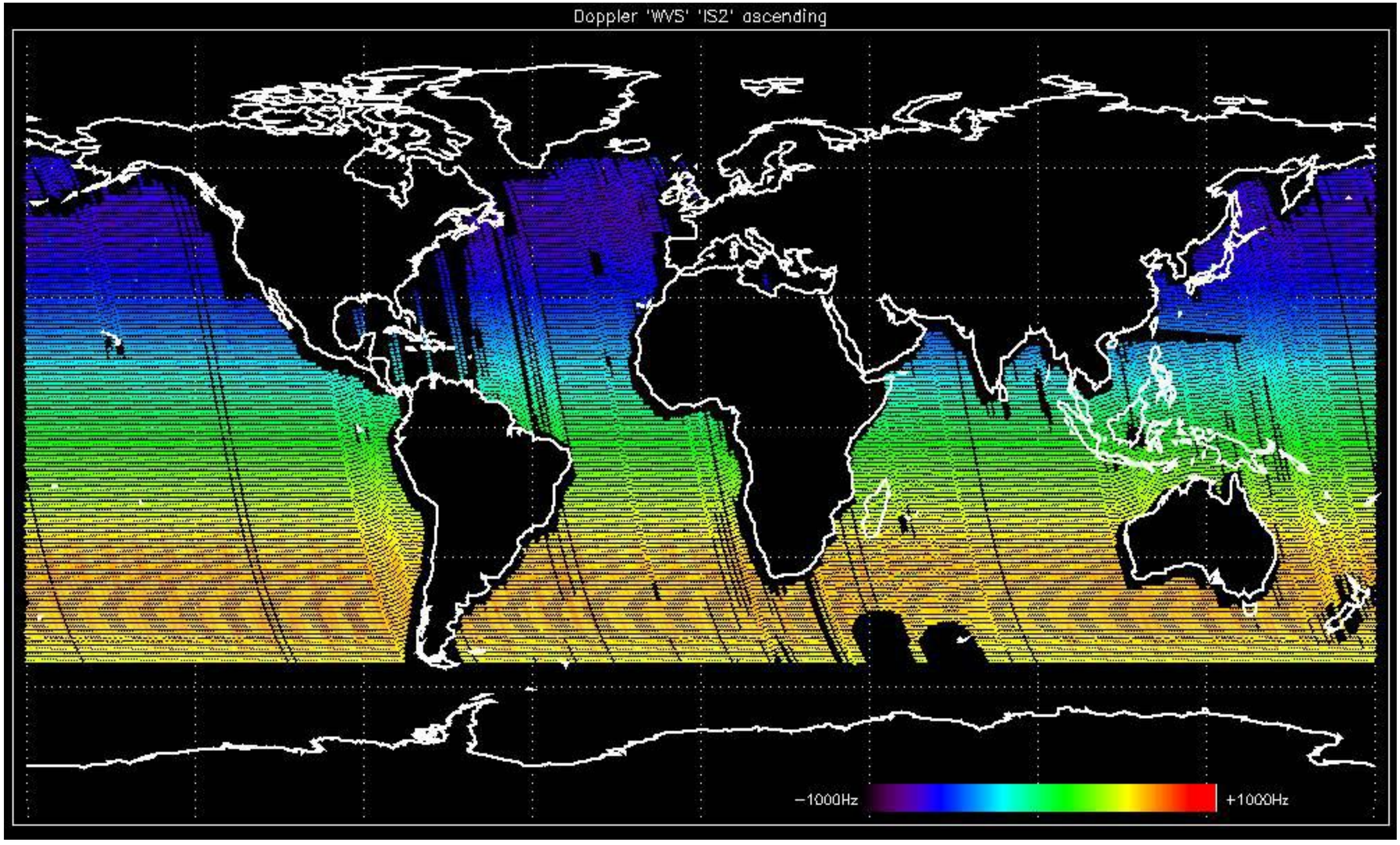

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

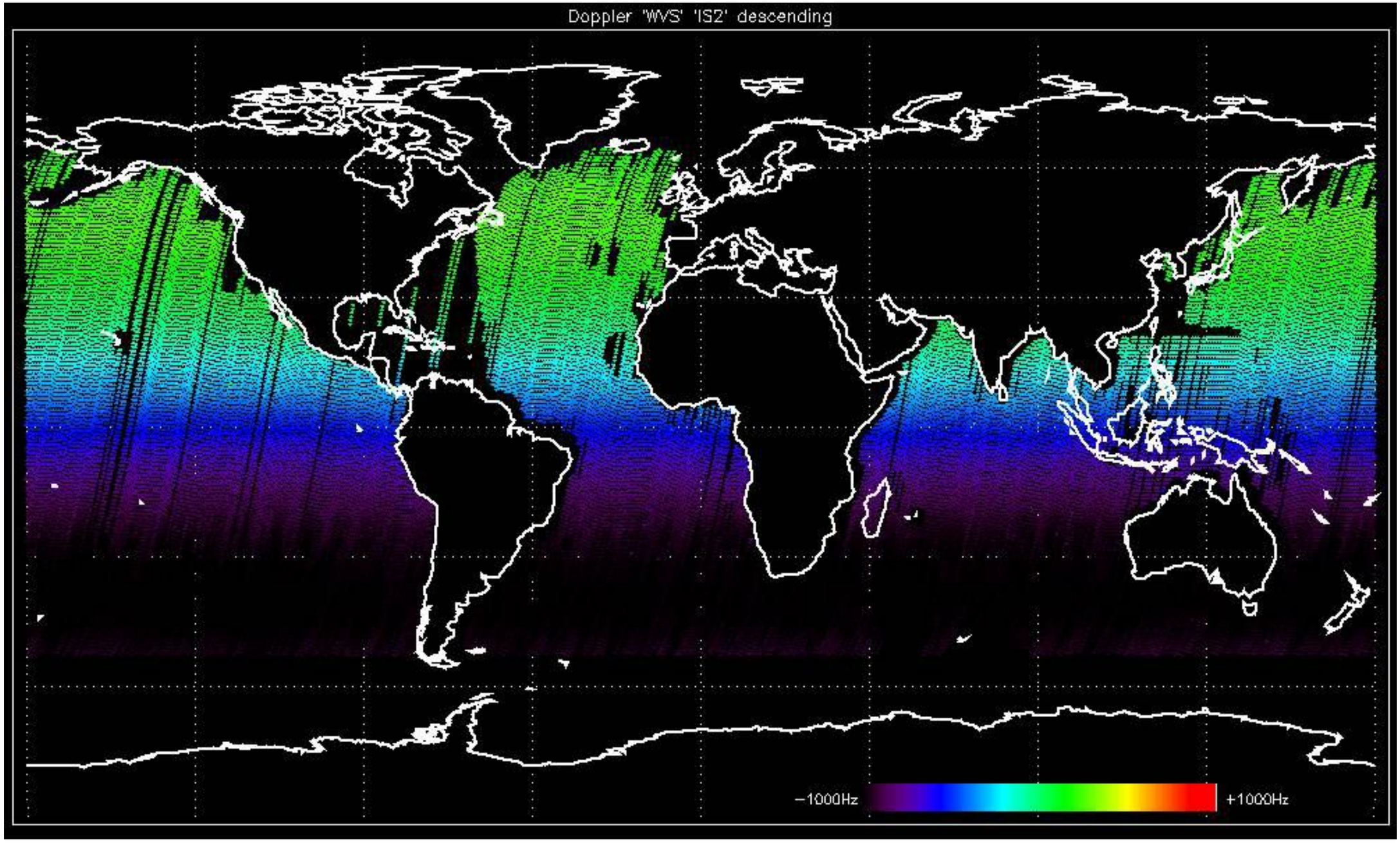
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

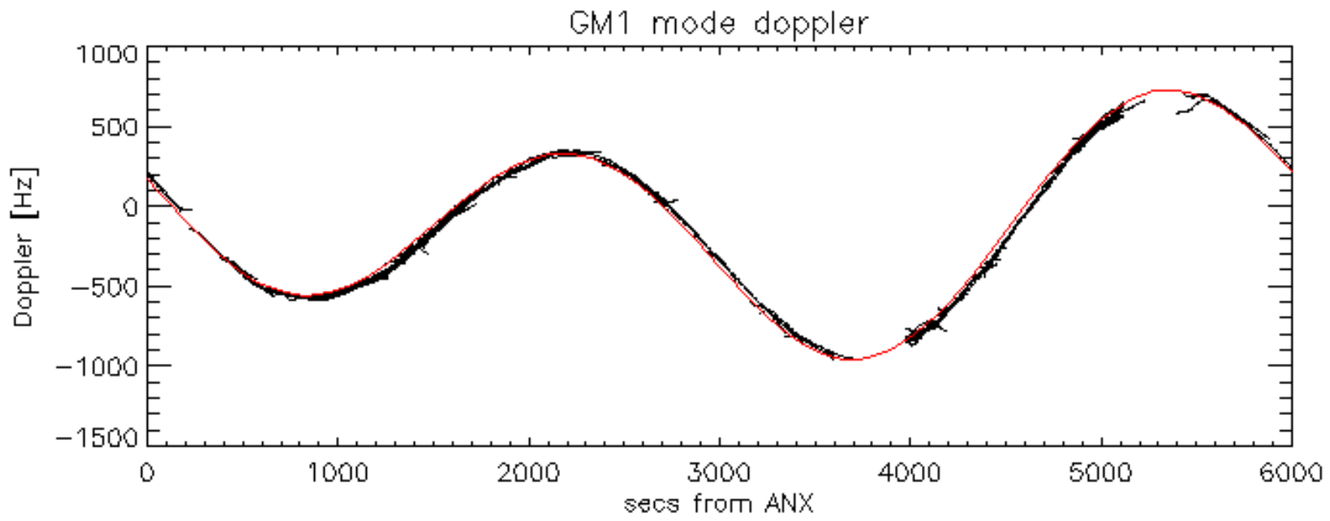
Preliminary report.The data is not yet controled

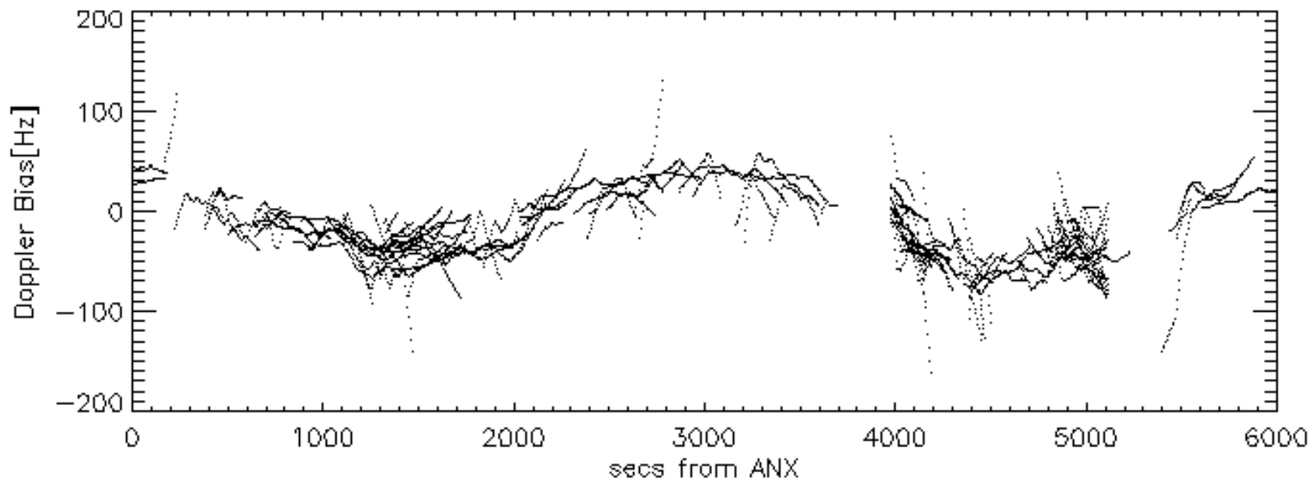

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

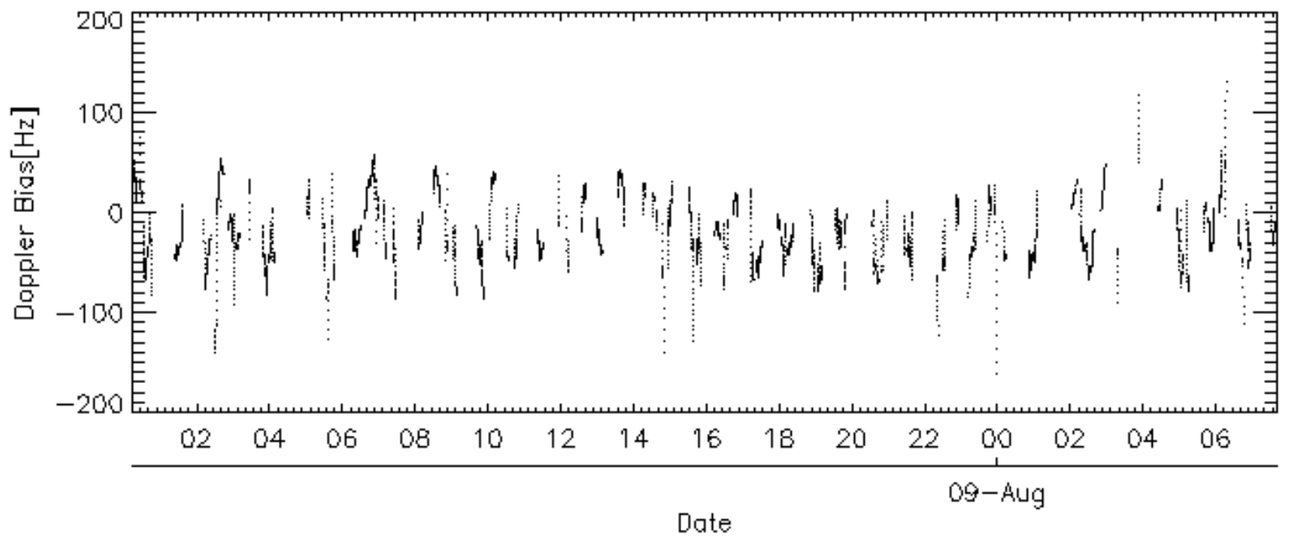

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

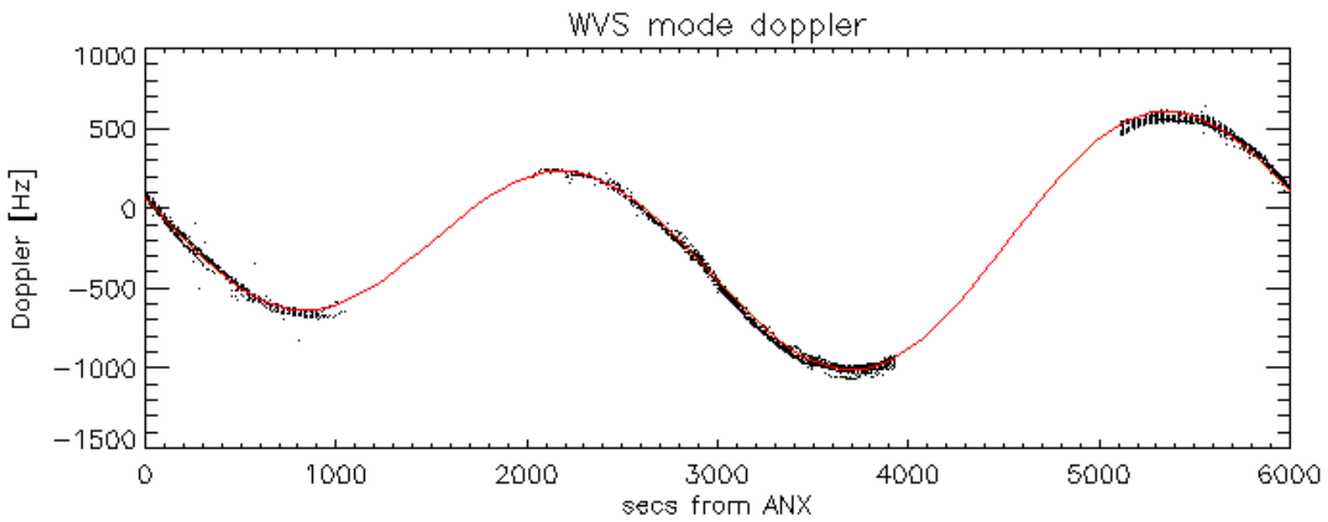

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

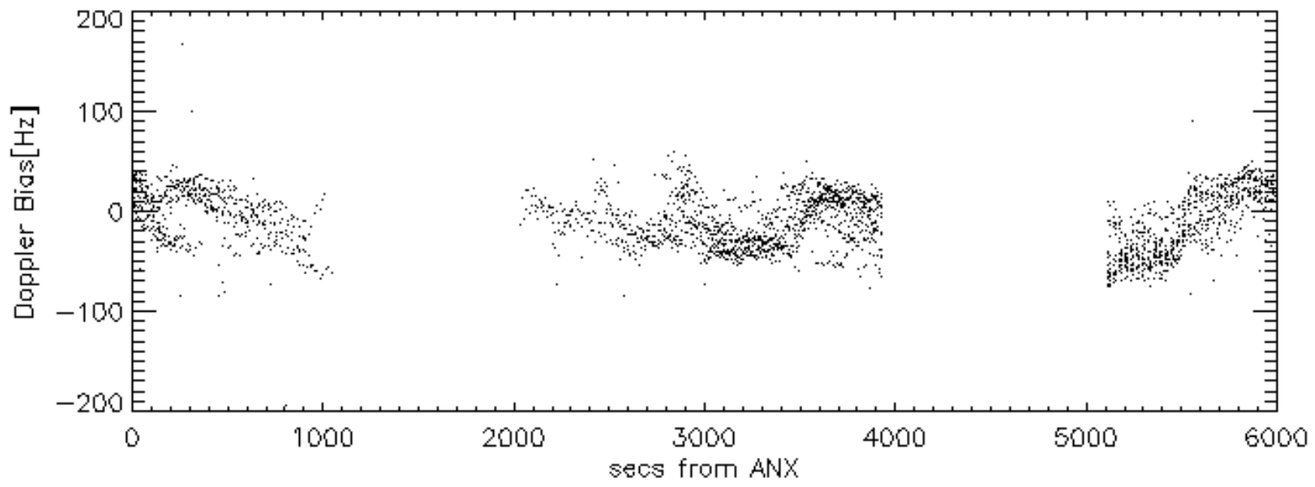

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

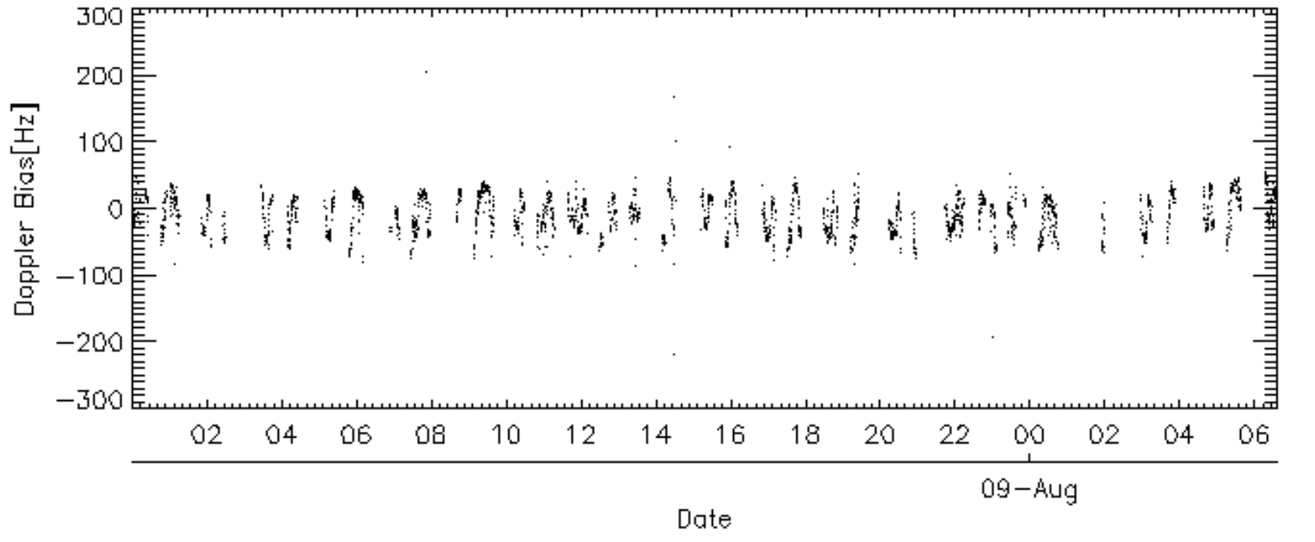

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

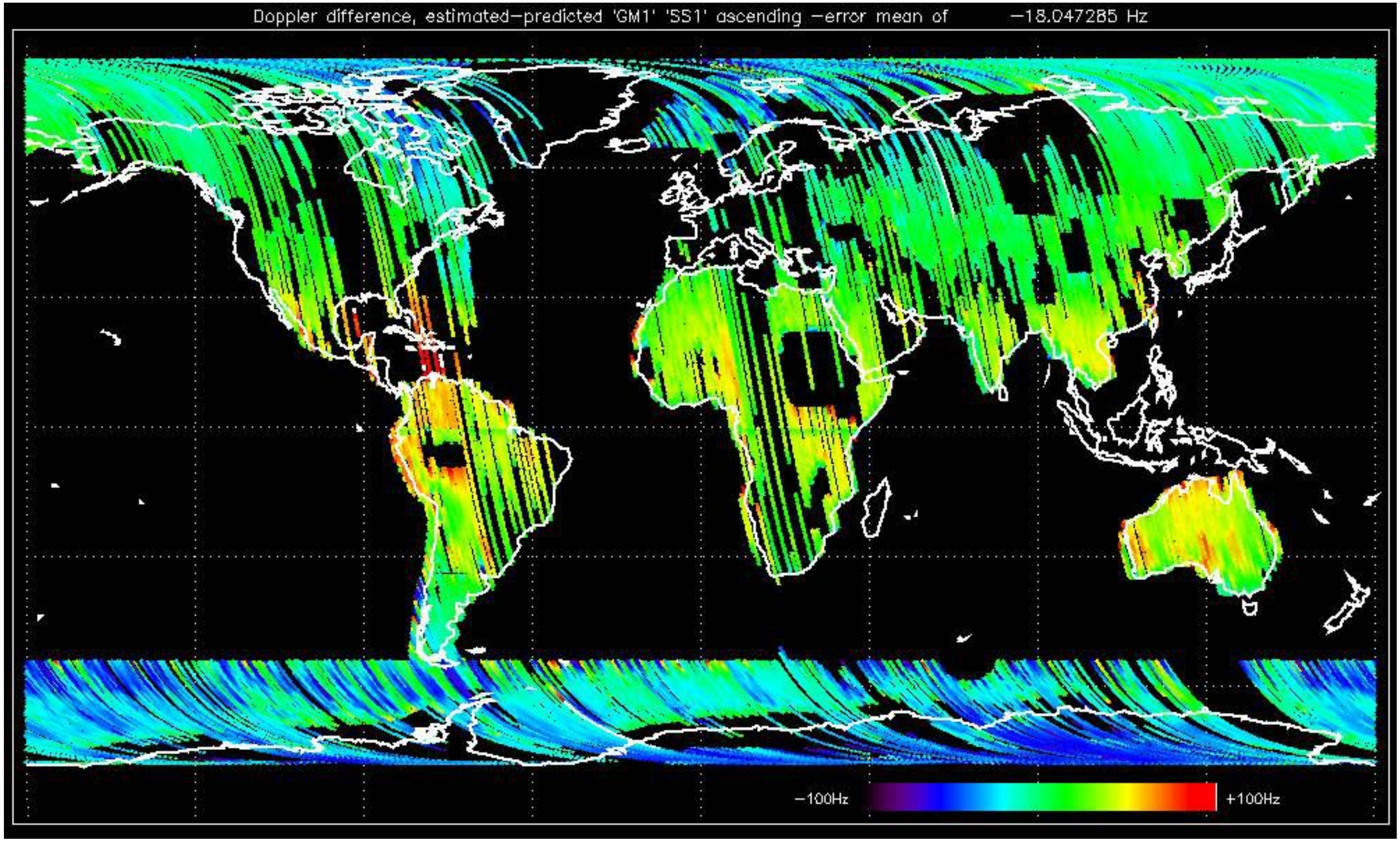

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

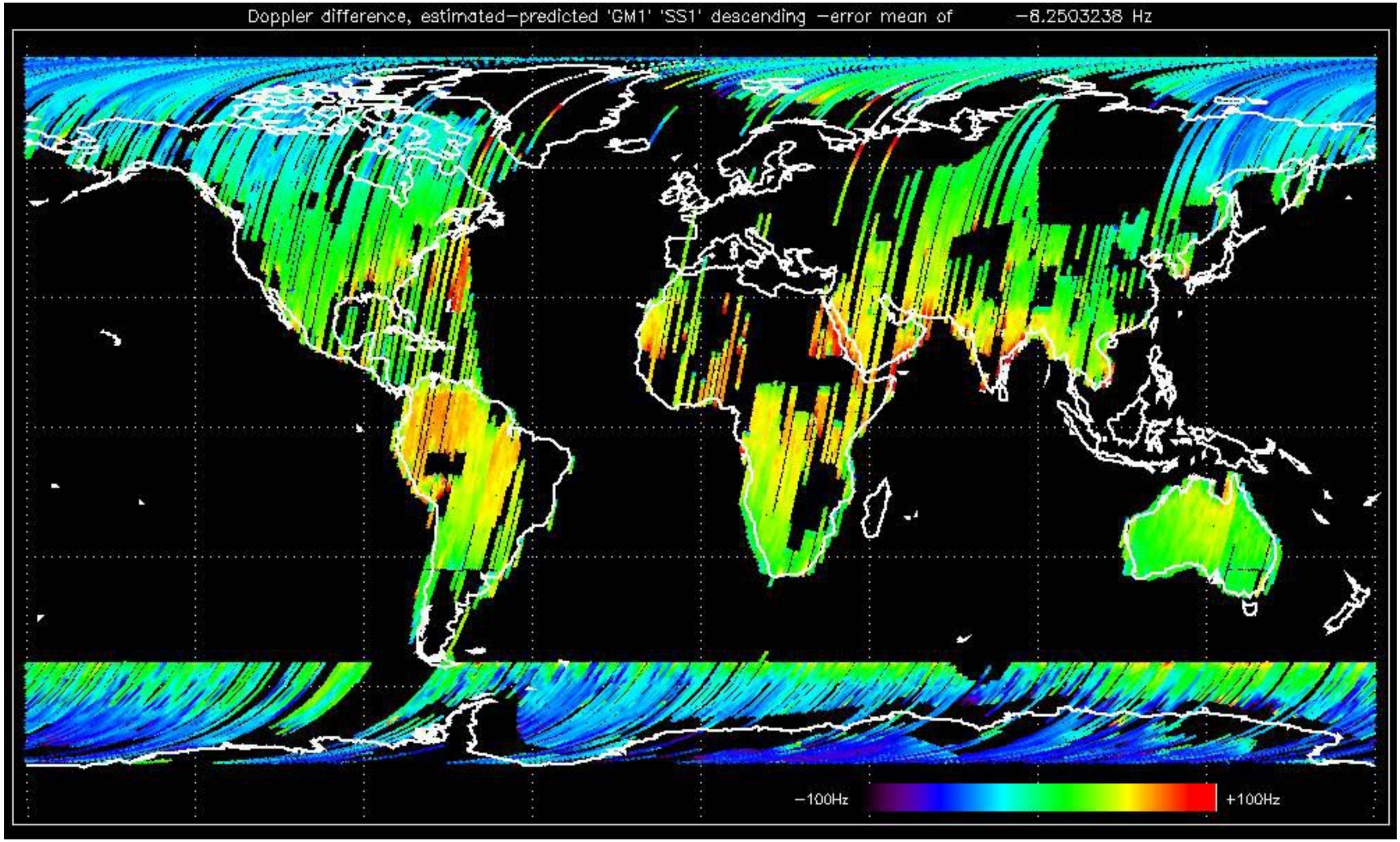

Doppler Bias[Hz]
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
09−Aug
Date

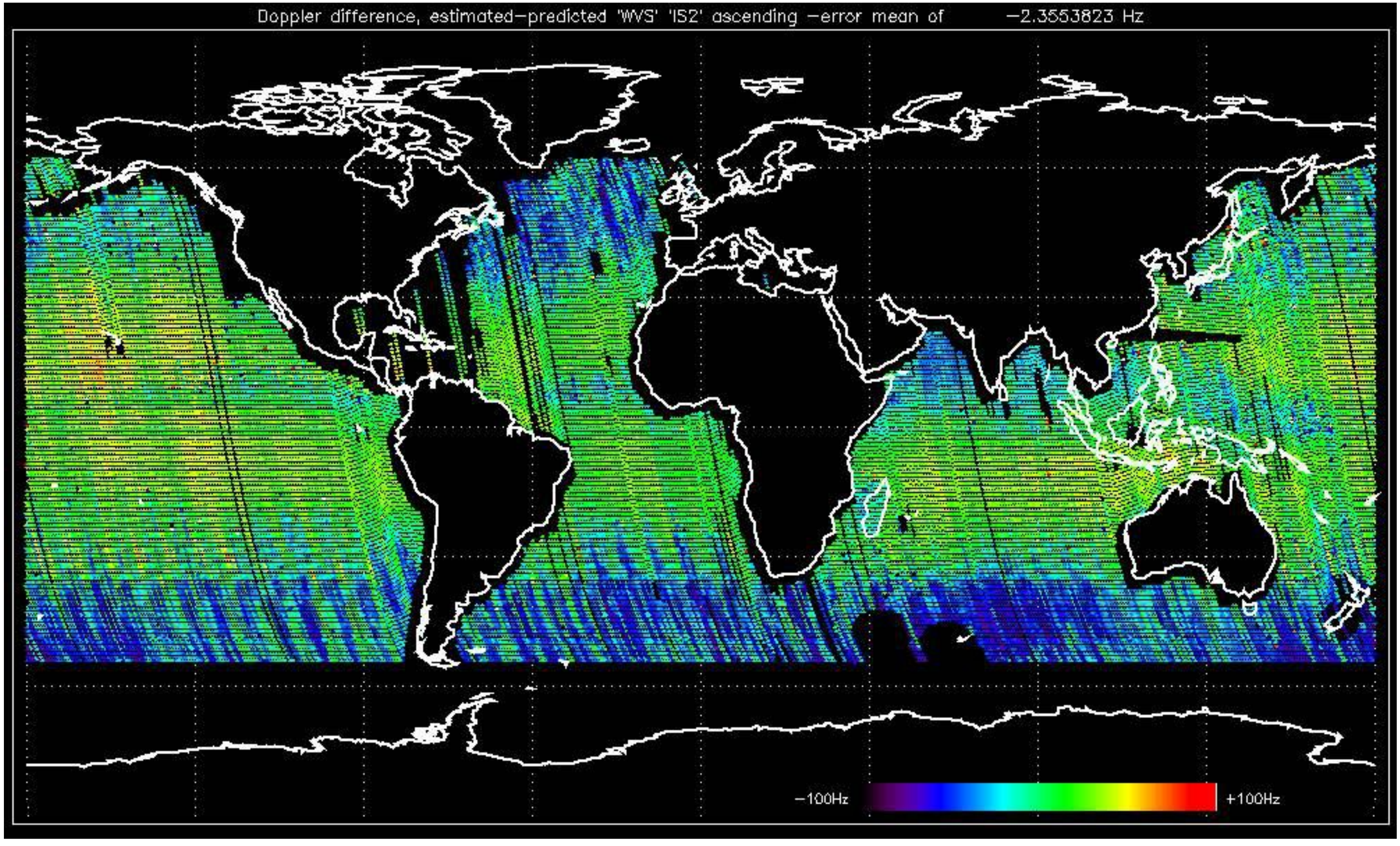

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

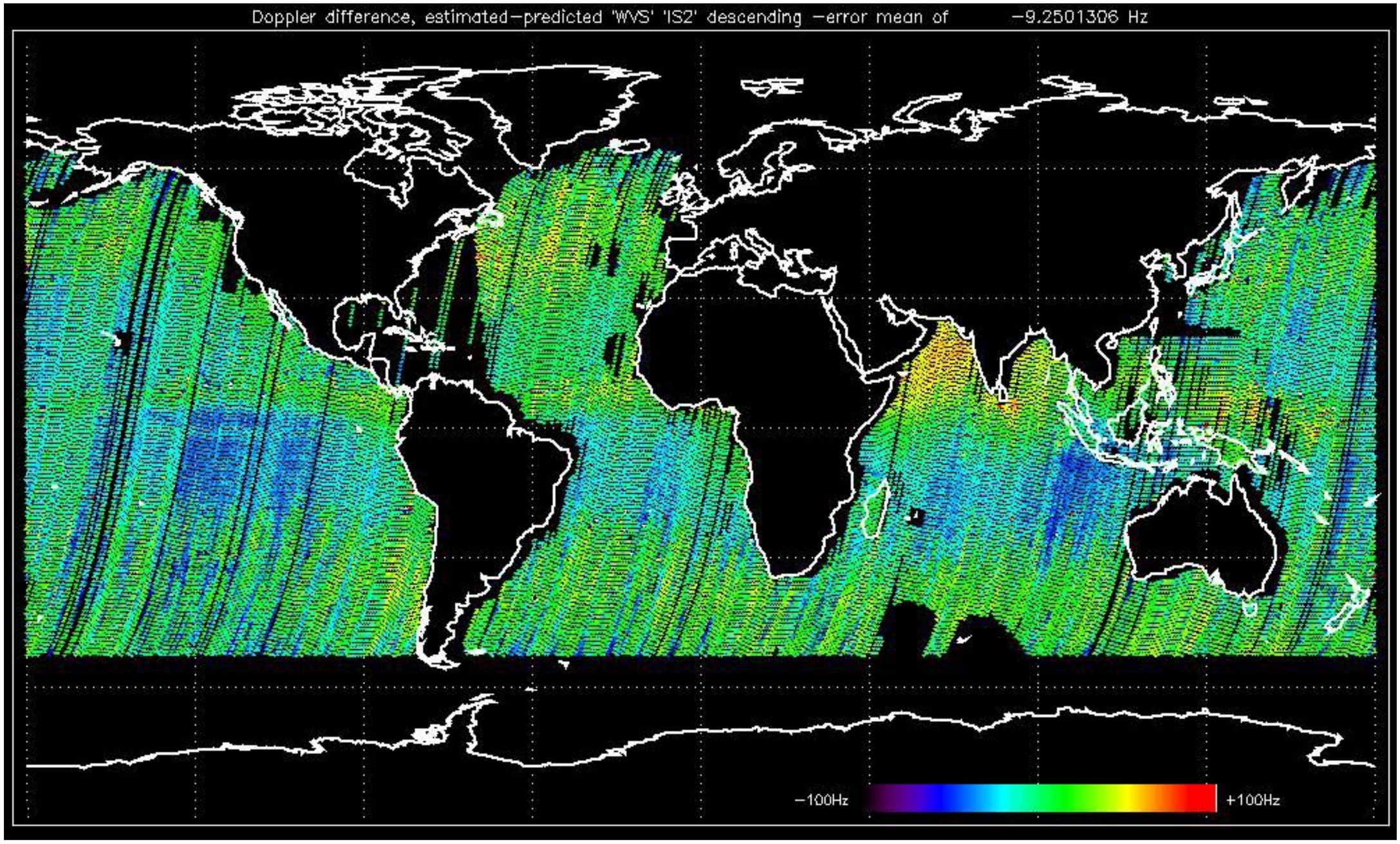

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.047285 Hz
−100Hz
+100Hz

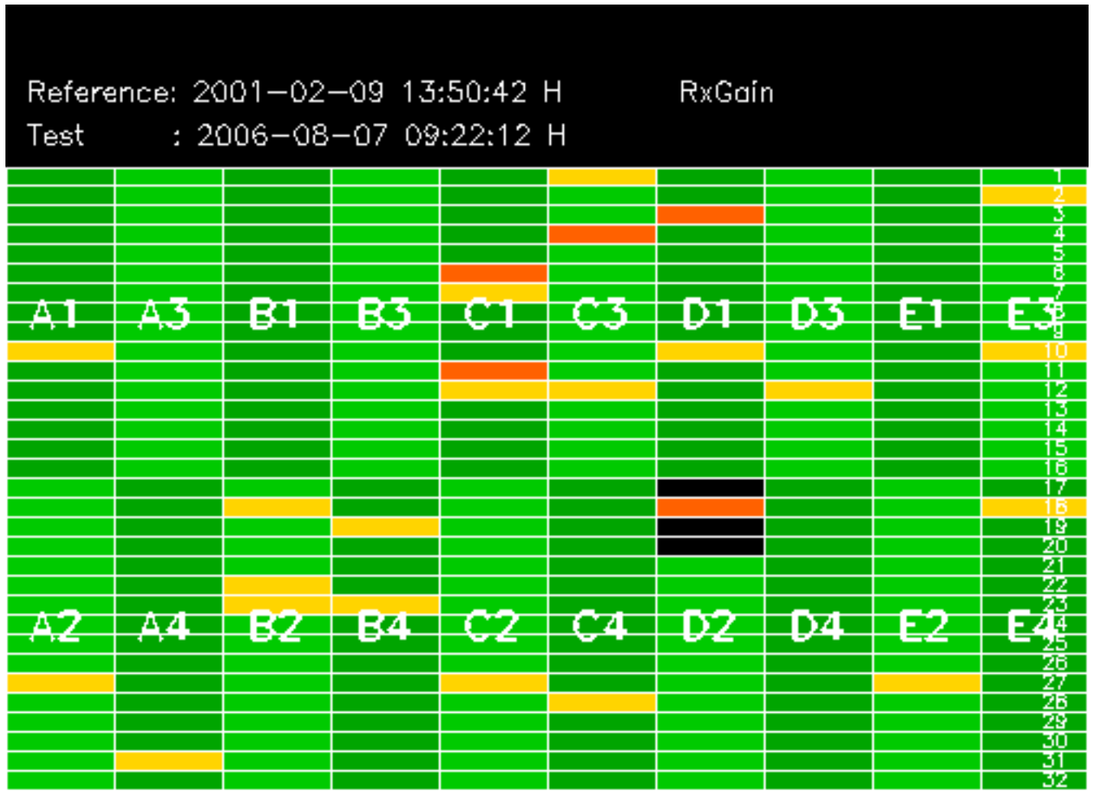

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −8.2503238 Hz
−100Hz
+100Hz

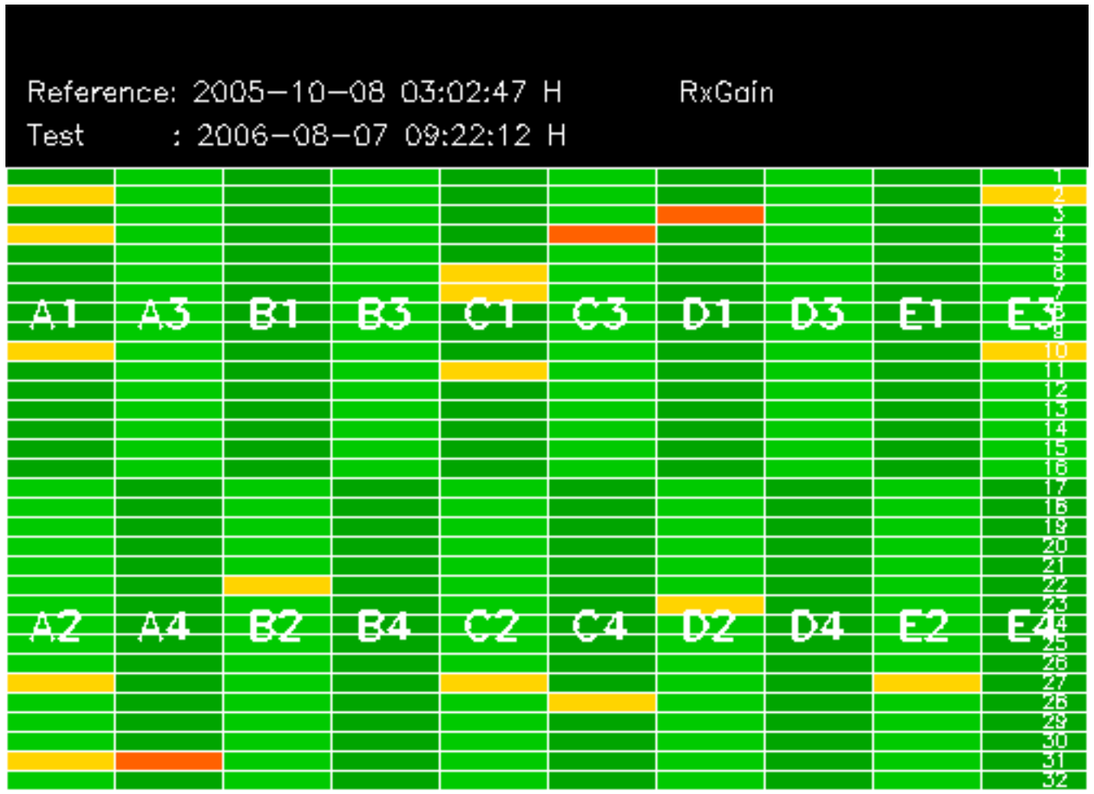

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −2.3553823 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −9.2501306 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-08-07 09:22:12 H
RxGain
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
Test : 2006-08-07 09:22:12 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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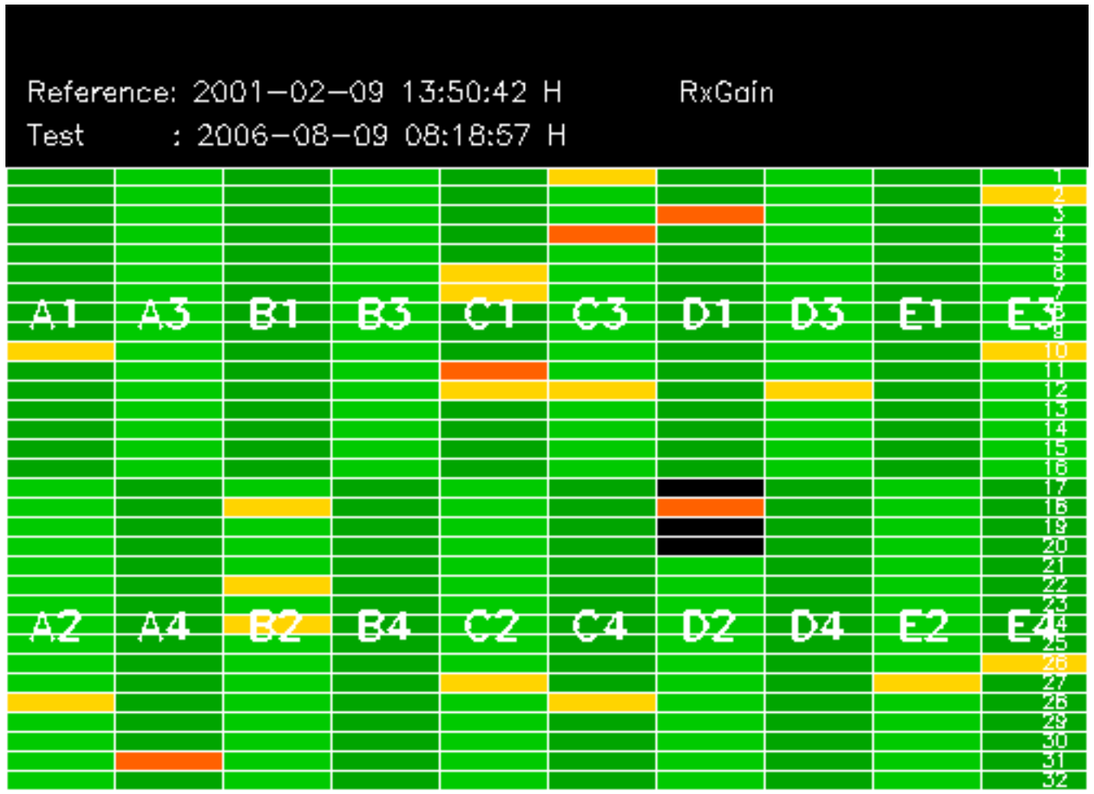
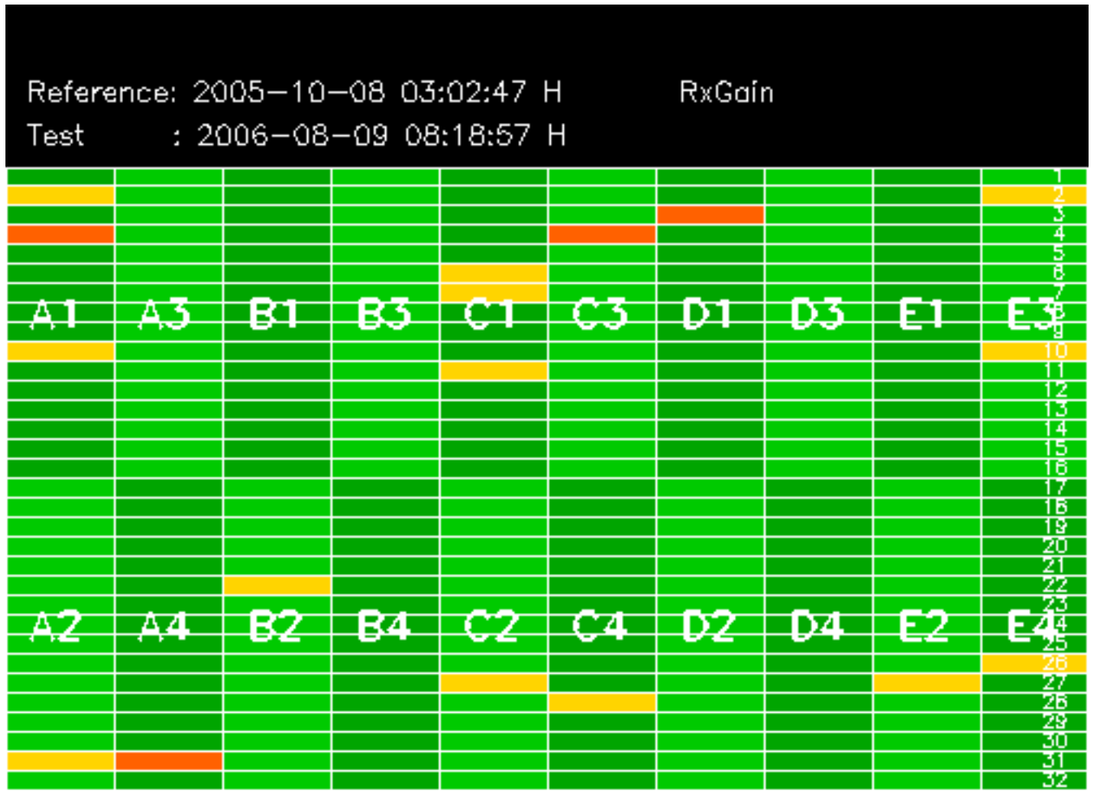

Reference: 2001-02-09 13:50:42 H
Test : 2006-08-09 08:18:57 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2006-08-09 08:18:57 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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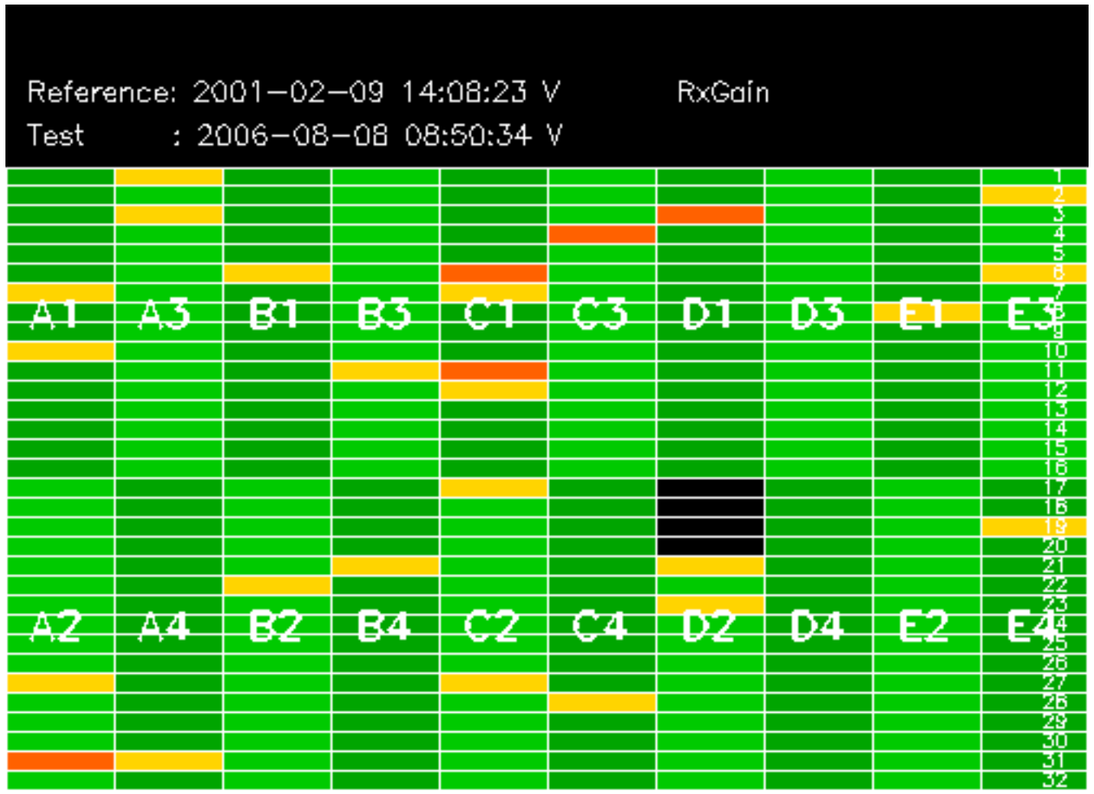
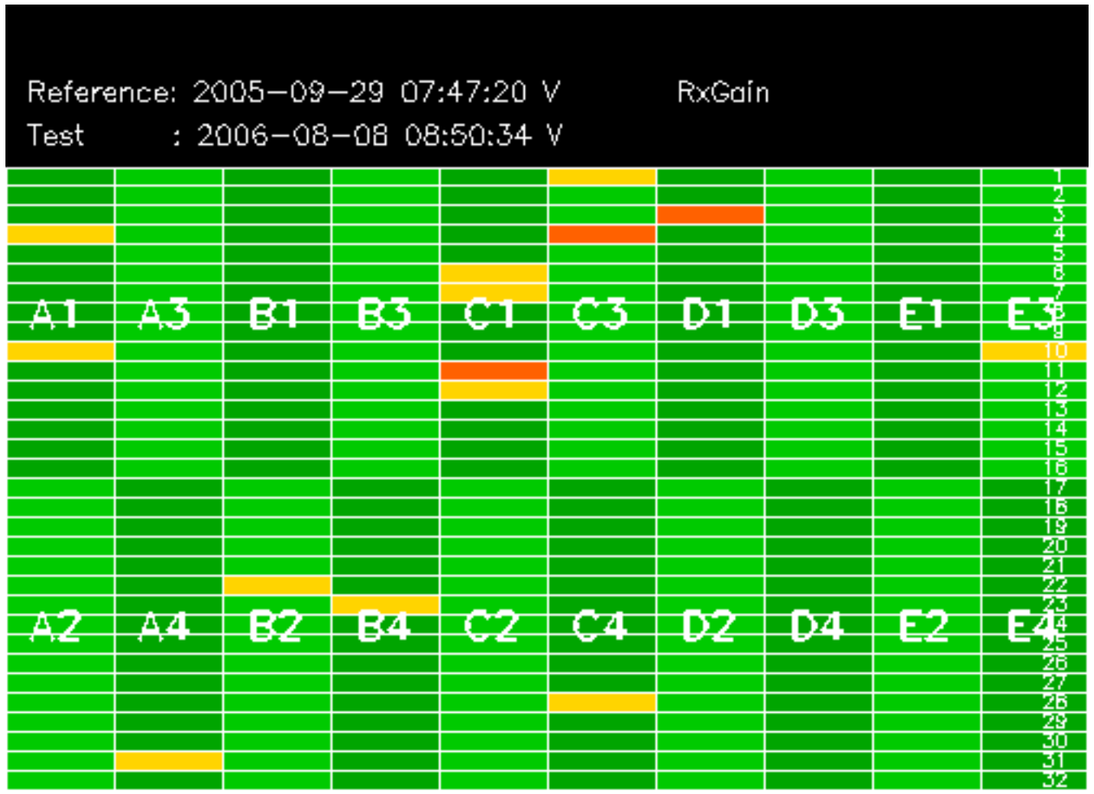

Reference: 2001-02-09 14:08:23 V
Test : 2006-08-08 08:50:34 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-08-08 08:50:34 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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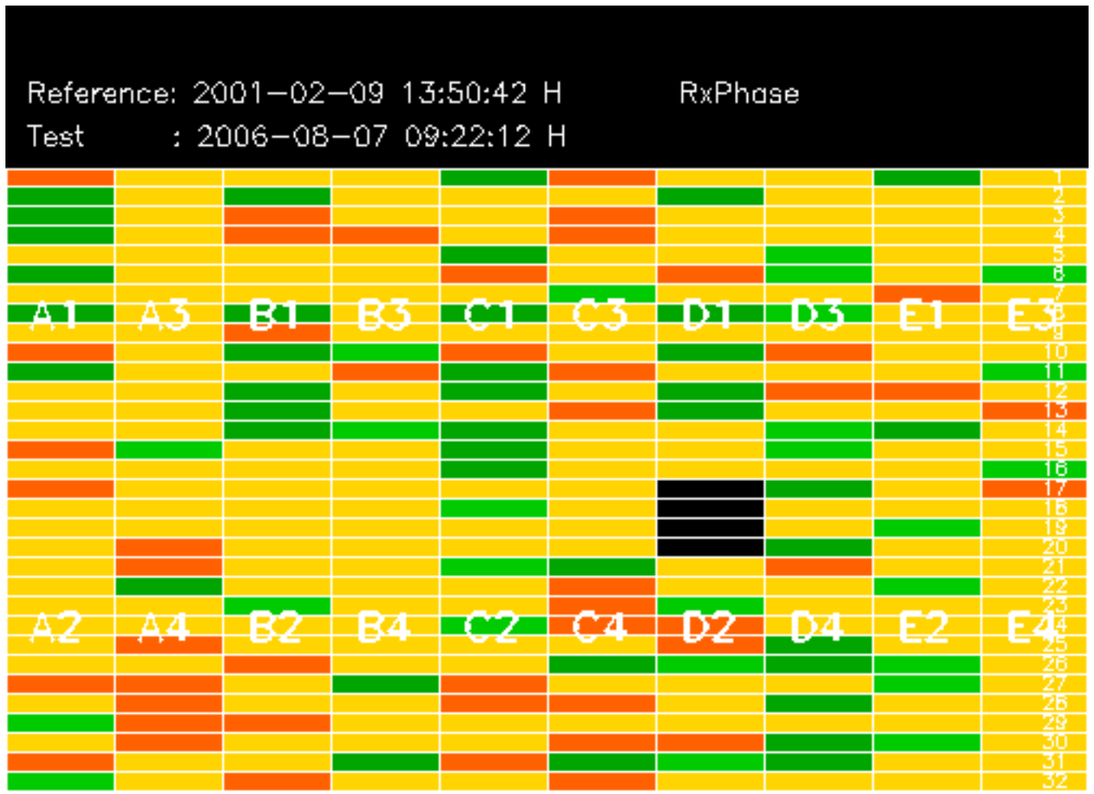
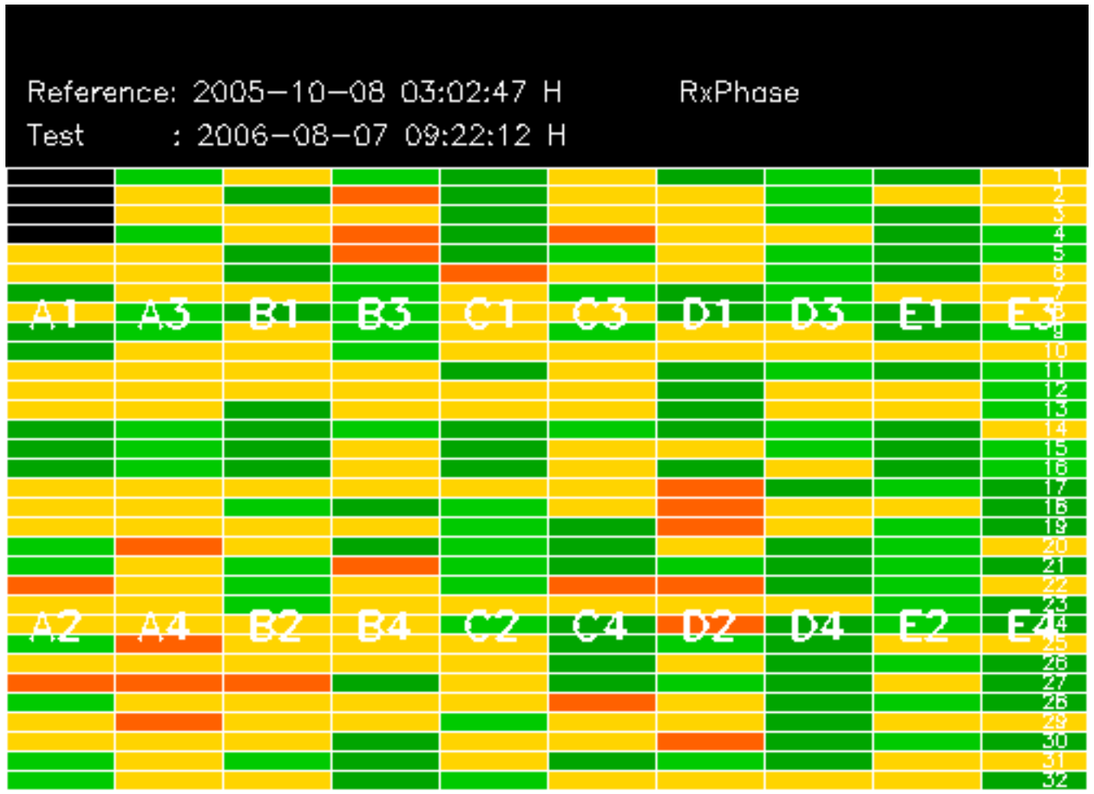

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-08-07 09:22:12 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-08-07 09:22:12 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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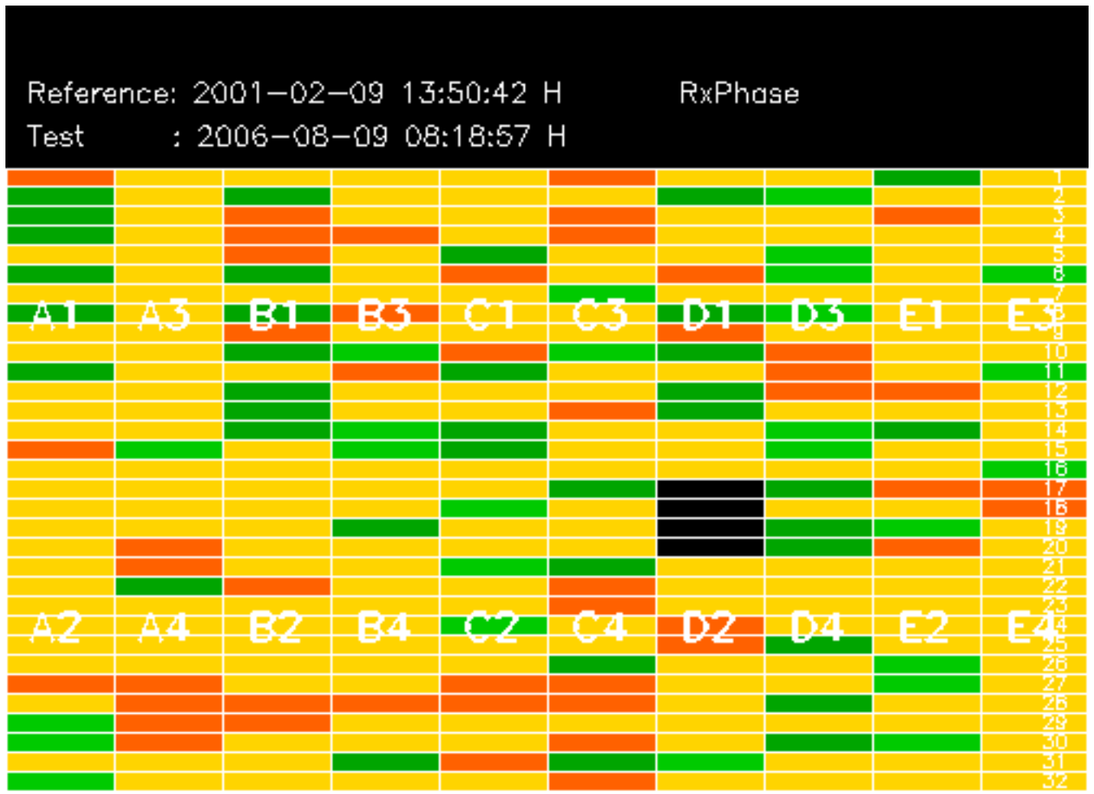
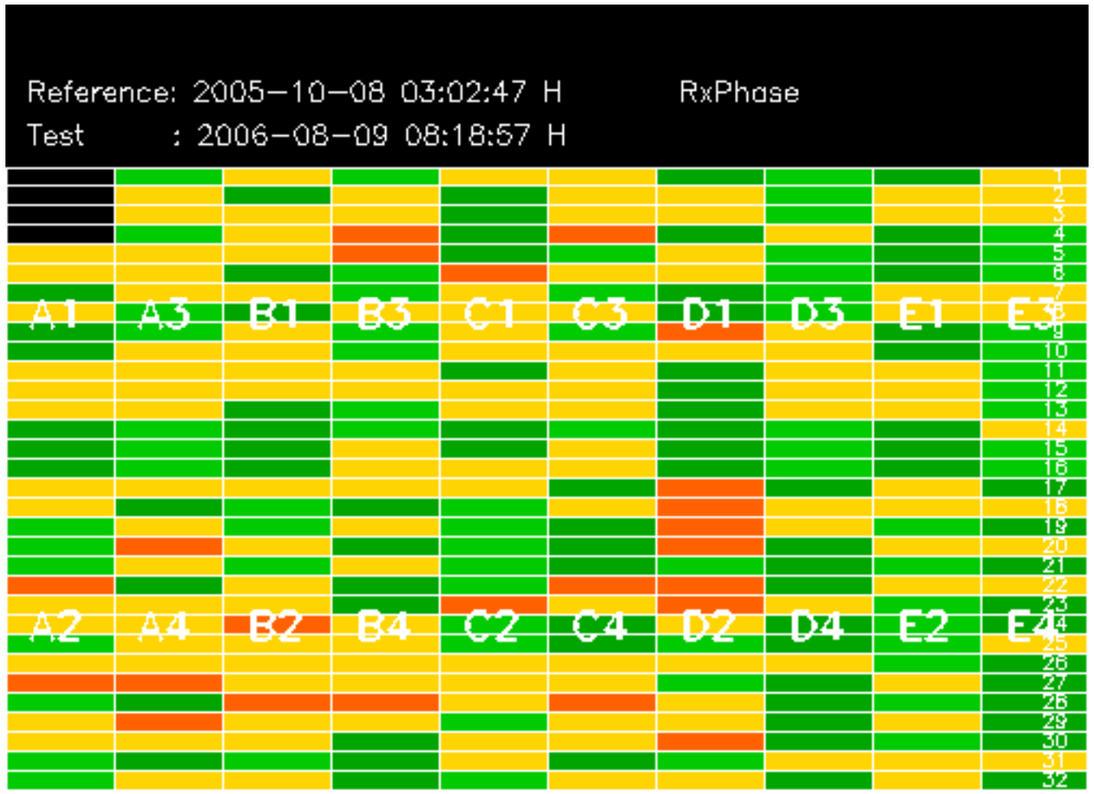

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-08-09 08:18:57 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-08-09 08:18:57 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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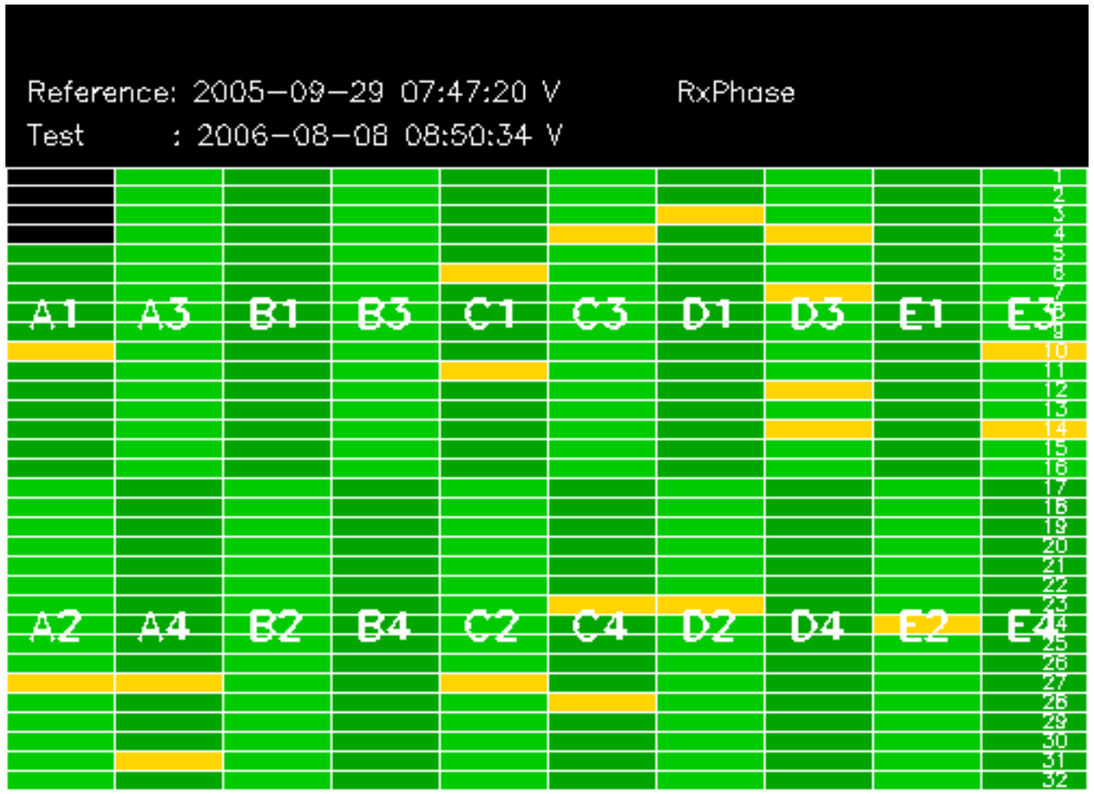
Reference: 2001-02-09 14:08:23 V
Test : 2006-08-08 08:50:34 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-08-08 08:50:34 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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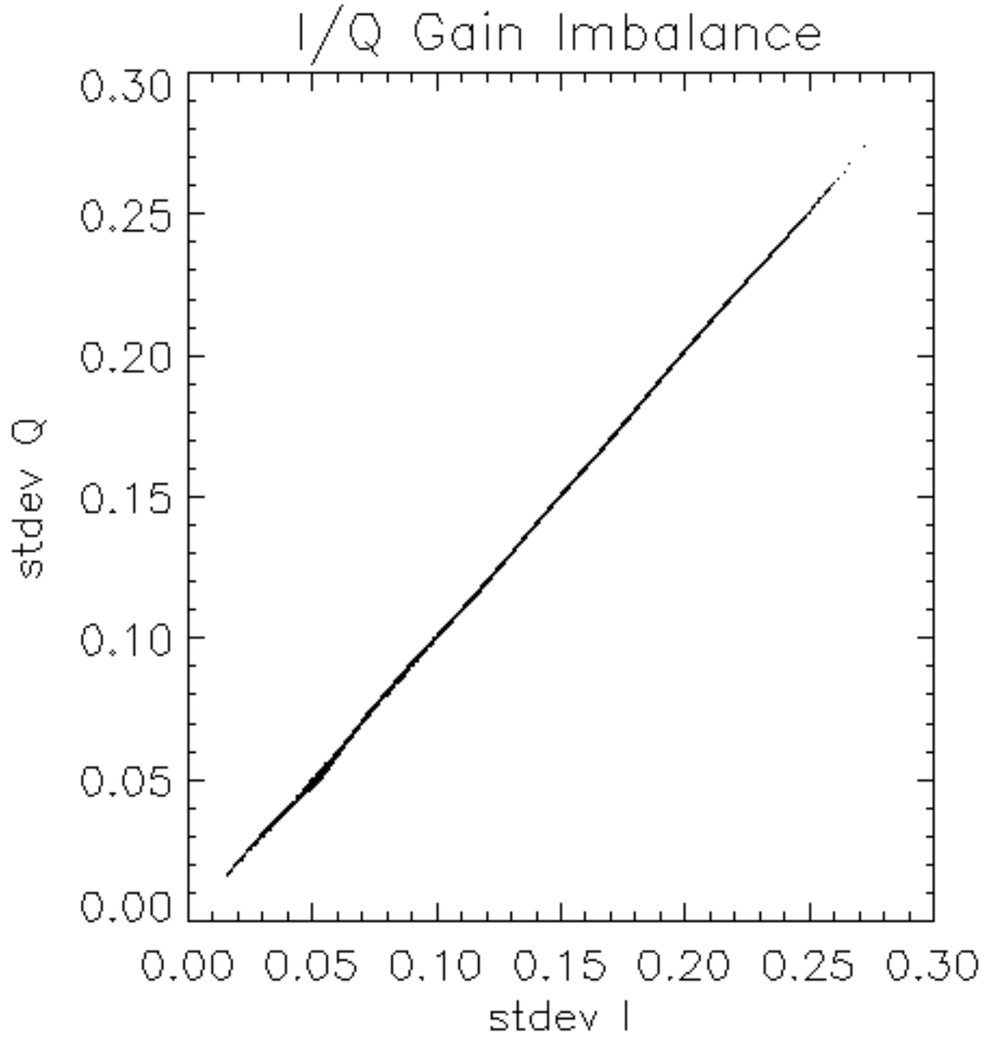
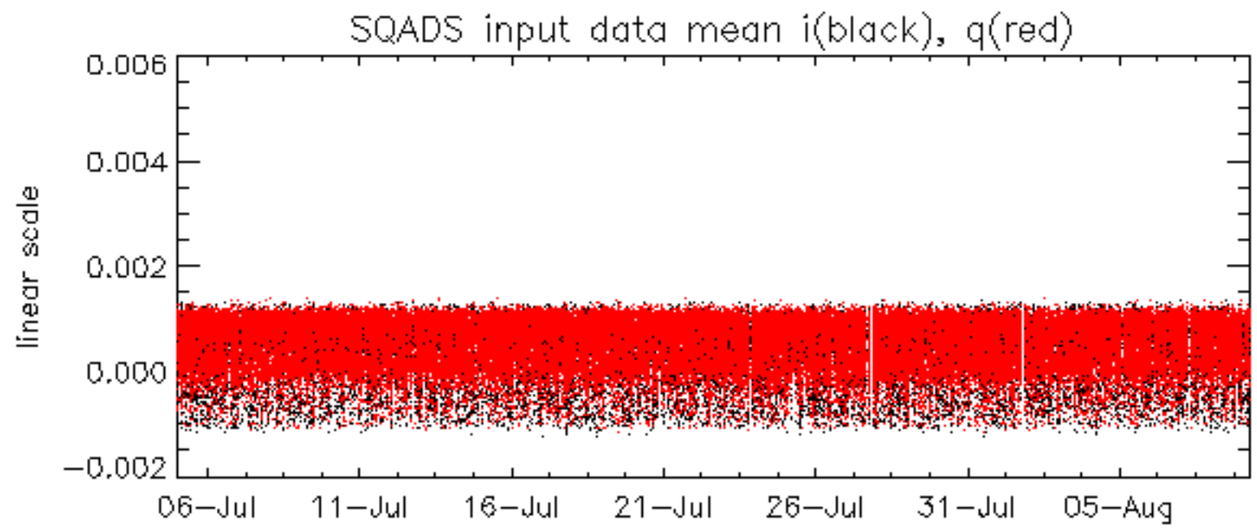
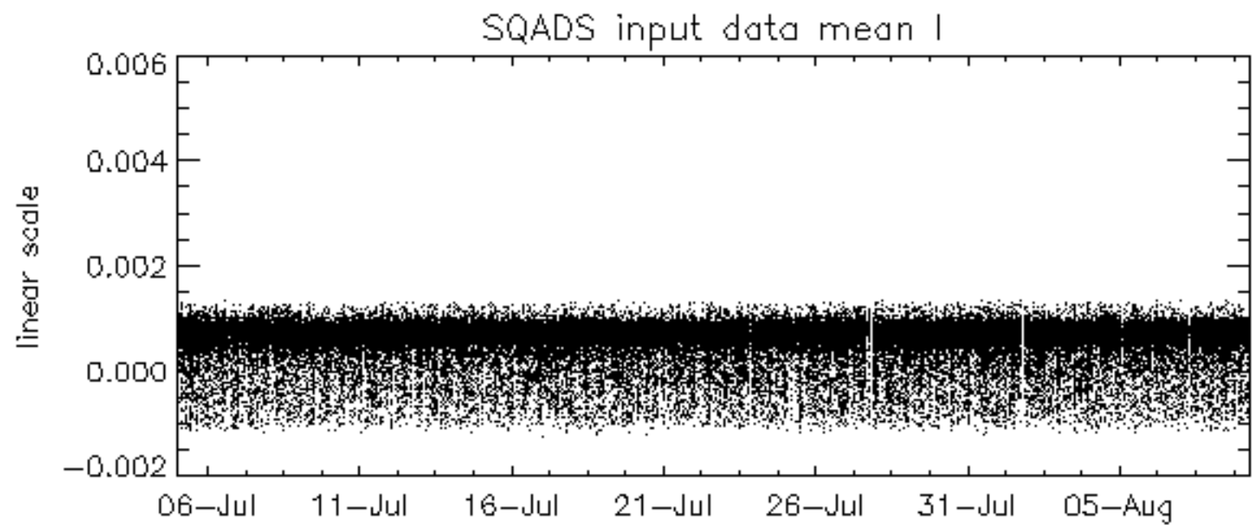
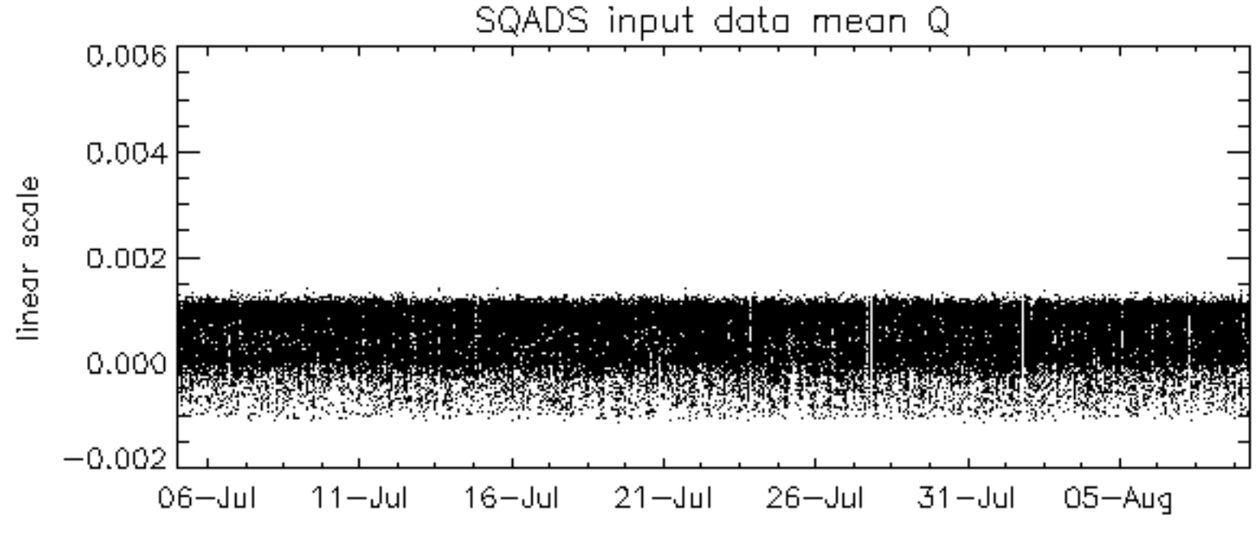
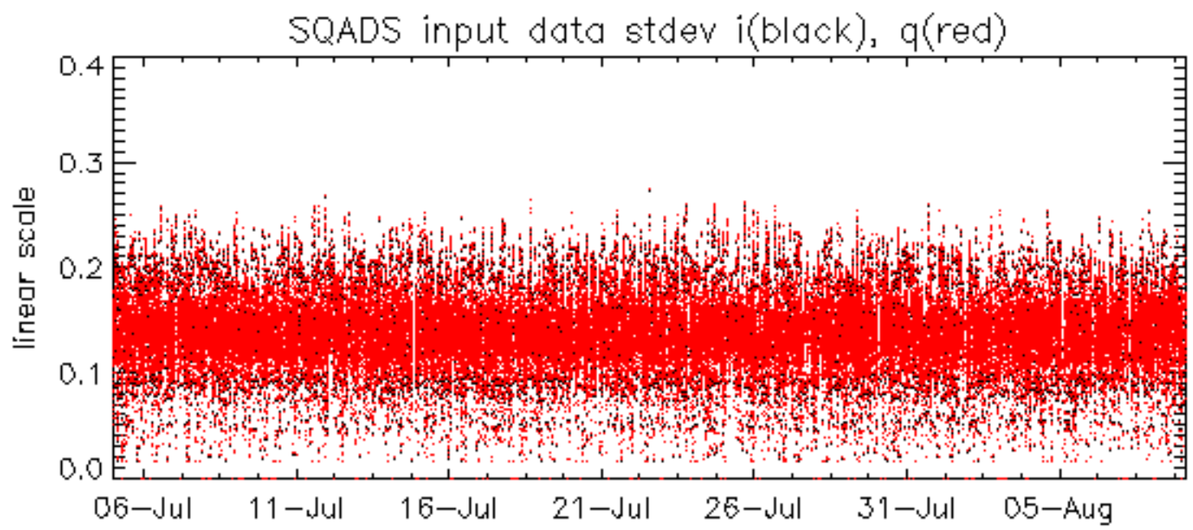
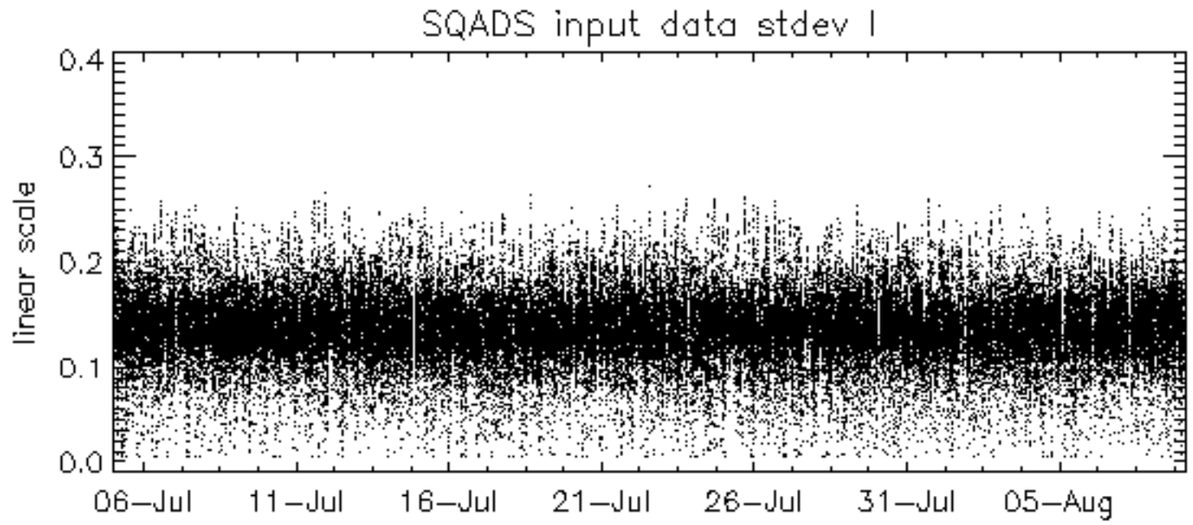

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

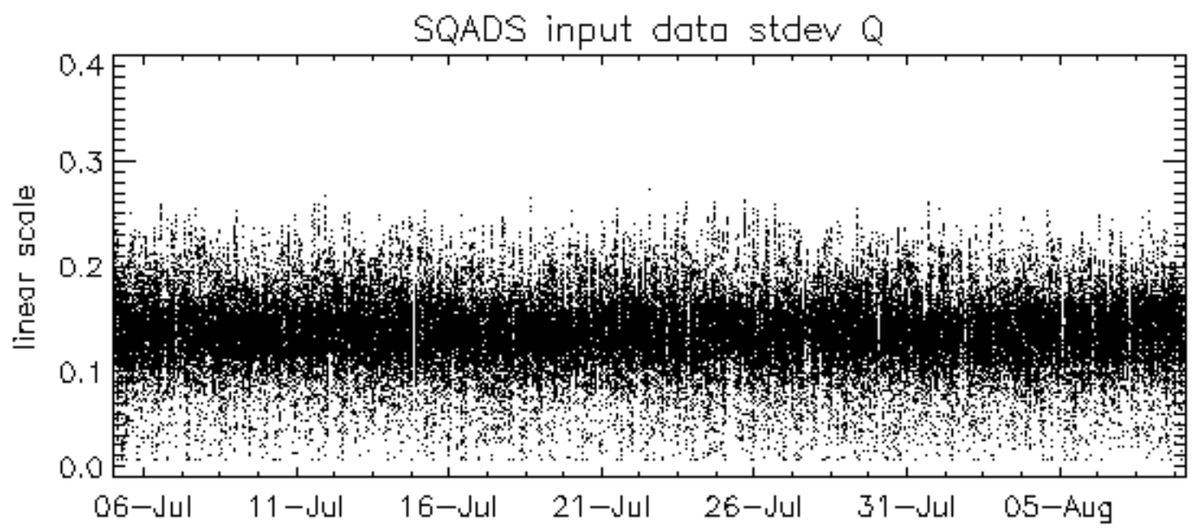

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Jul
11−Jul
16−Jul
21−Jul
26−Jul
31−Jul
05−Aug

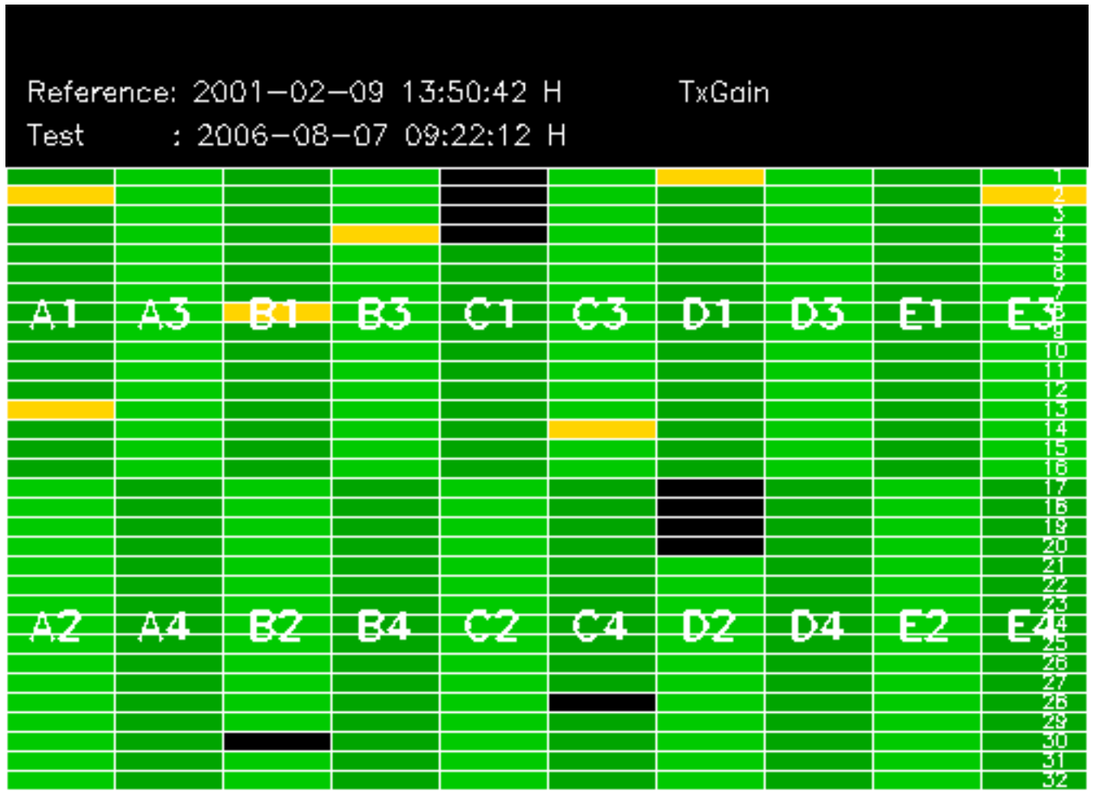

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Jul
11−Jul
16−Jul
21−Jul
26−Jul
31−Jul
05−Aug


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Jul
11−Jul
16−Jul
21−Jul
26−Jul
31−Jul
05−Aug


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
06–Jul
11–Jul
16–Jul
21–Jul
26–Jul
31–Jul
05–Aug


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
06–Jul
11–Jul
16–Jul
21–Jul
26–Jul
31–Jul
05–Aug


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
06–Jul
11–Jul
16–Jul
21–Jul
26–Jul
31–Jul
05–Aug


Reference: 2001-02-09 13:50:42 H
Test : 2006-08-07 09:22:12 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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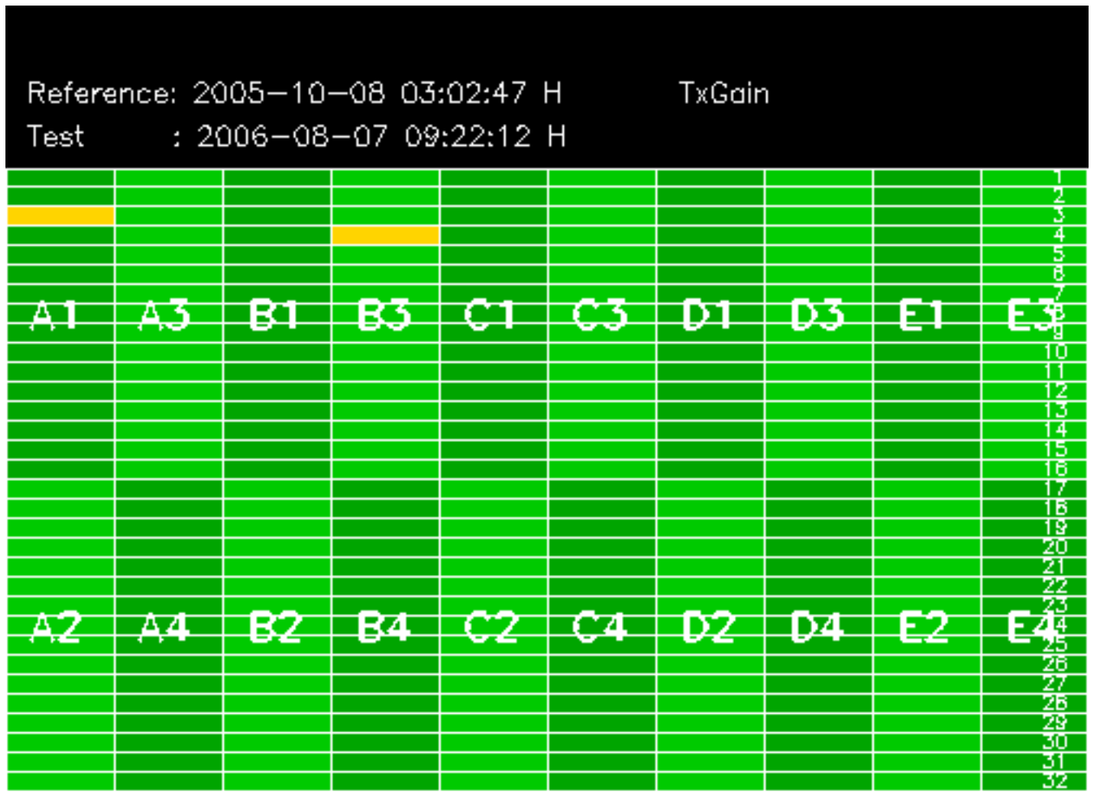
Reference: 2005-10-08 03:02:47 H
Test : 2006-08-07 09:22:12 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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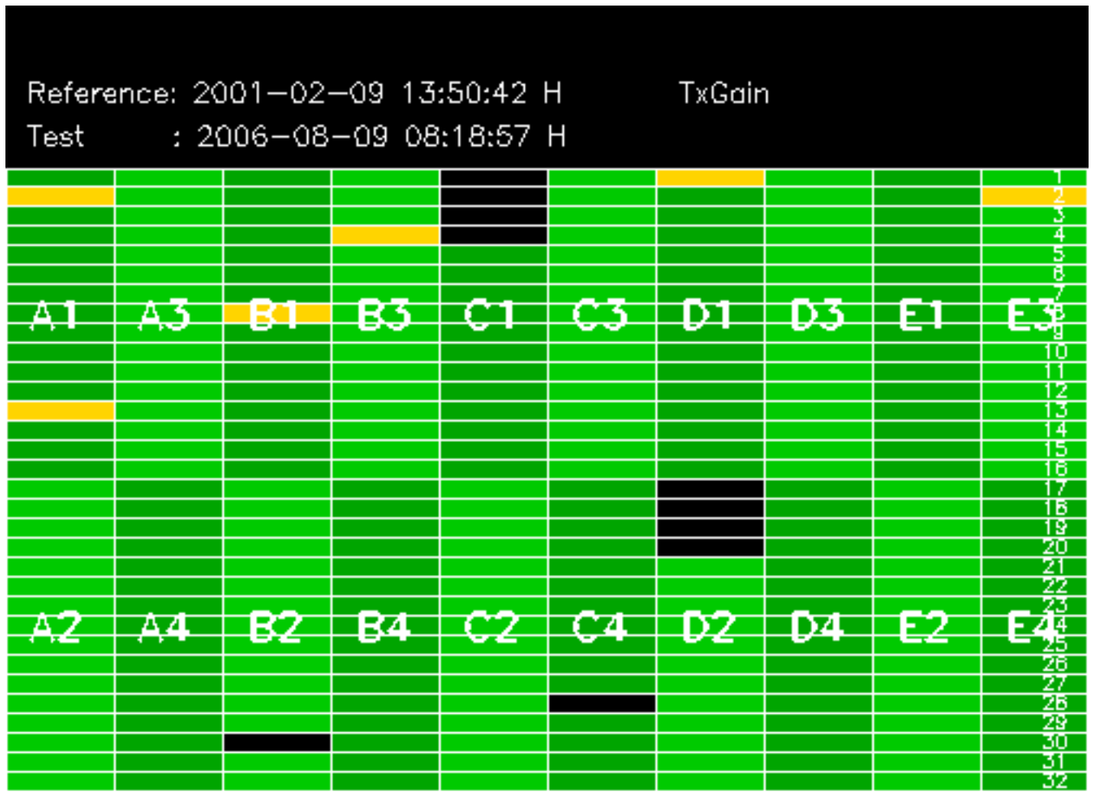
Reference: 2001-02-09 13:50:42 H
Test : 2006-08-09 08:18:57 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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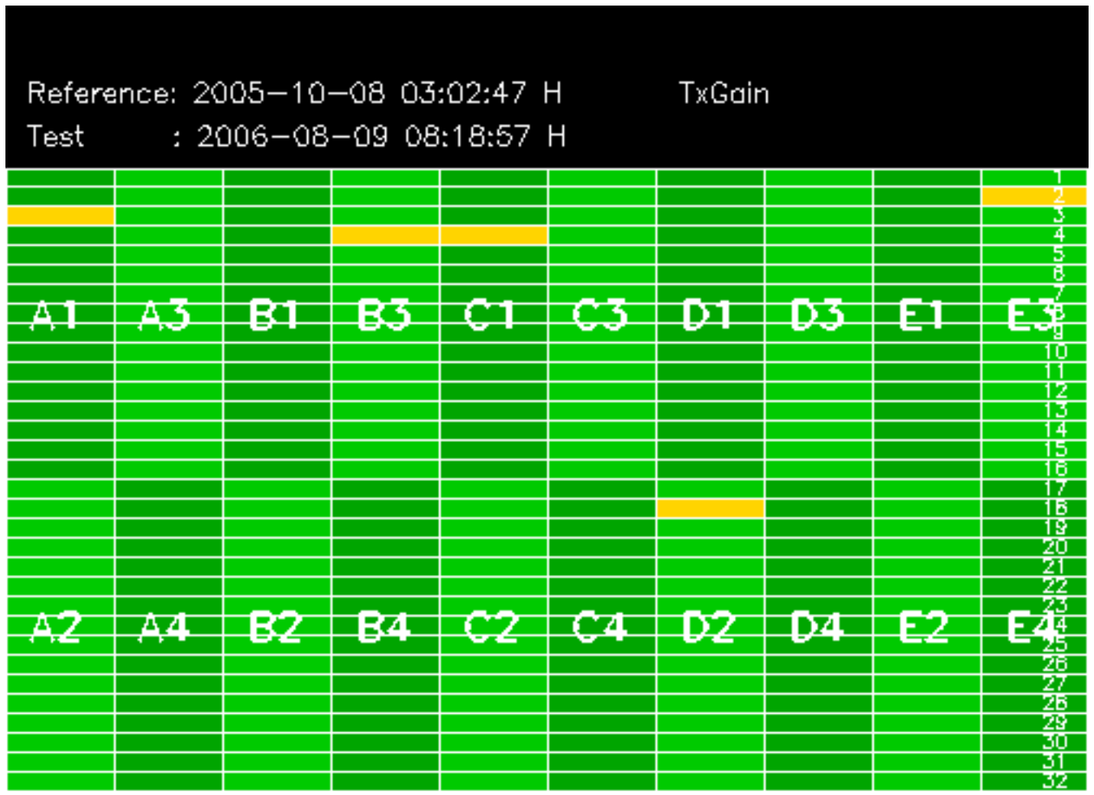
Reference: 2005-10-08 03:02:47 H
Test : 2006-08-09 08:18:57 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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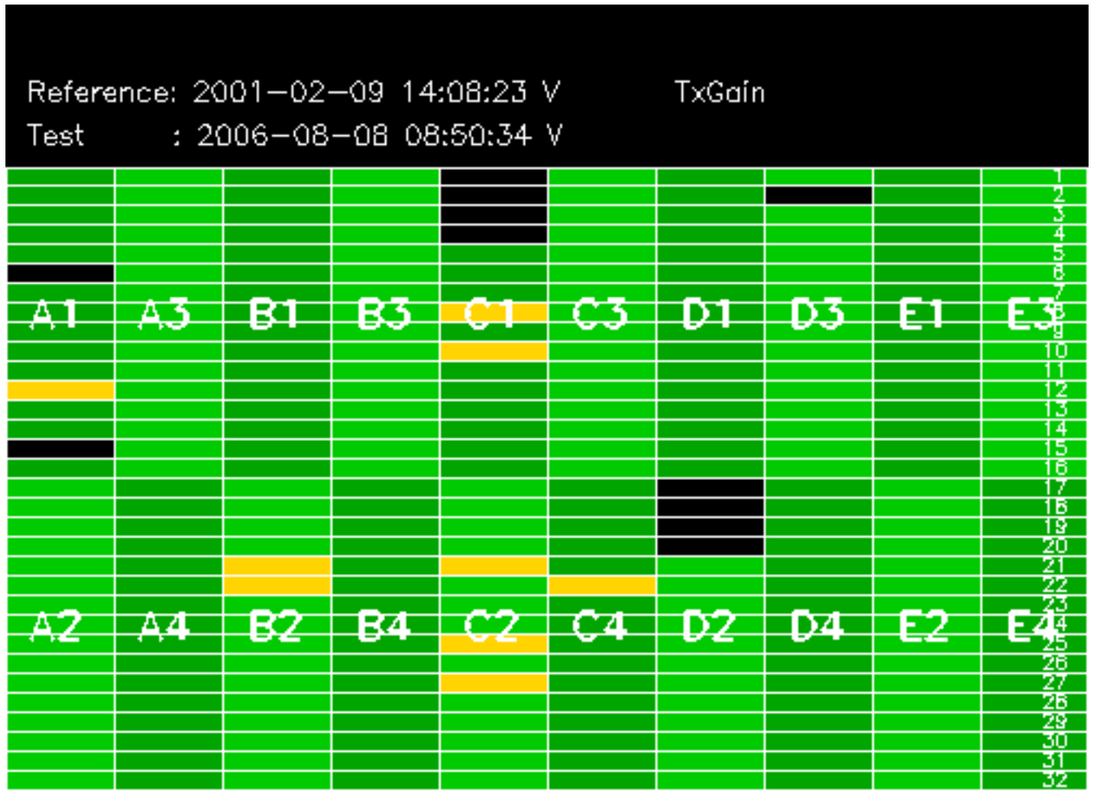
Reference: 2001-02-09 14:08:23 V
Test : 2006-08-08 08:50:34 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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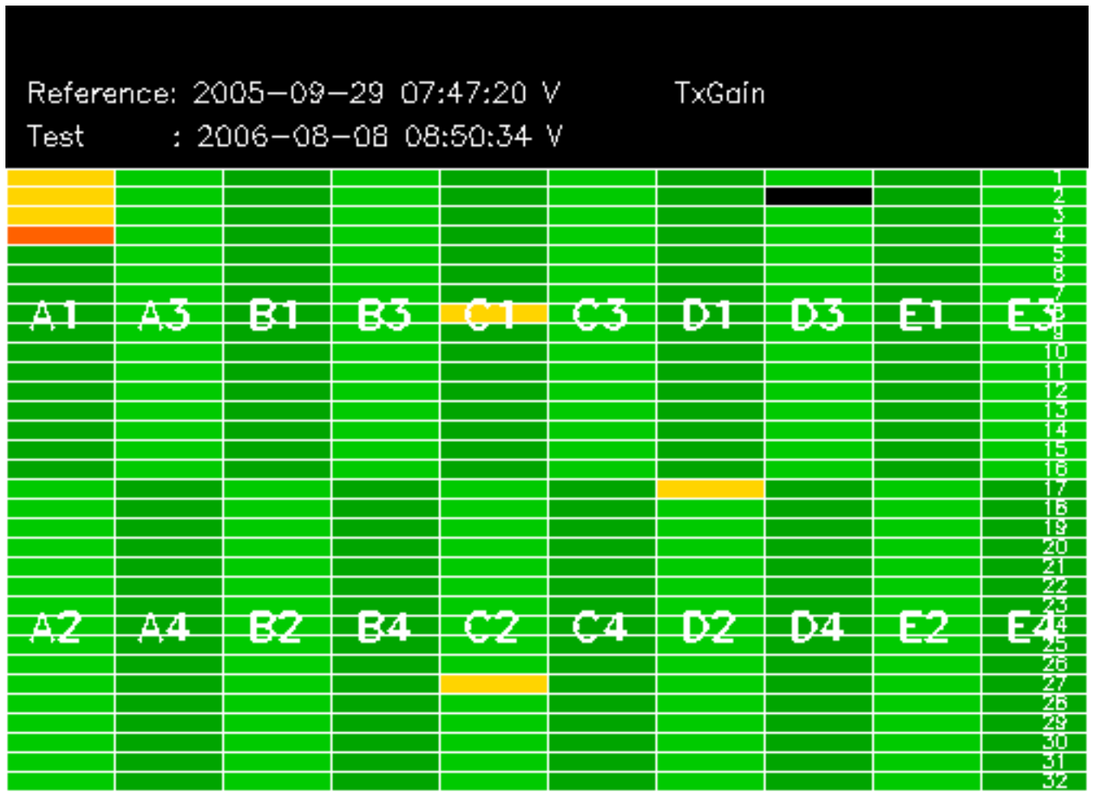
Reference: 2005-09-29 07:47:20 V
Test : 2006-08-08 08:50:34 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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Summary of analysis for the last 3 days 2006080[789]
The assumptions is taken that the SQADS num_gaps and num_missing_lines 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_IMM_1PNPDE20060807_002903_000000512050_00088_23188_3070.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060808_000918_000000852050_00102_23202_6545.N1 </td> <td>0 </td> <td>35 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060808_014653_000001462050_00103_23203_6563.N1 </td> <td>0 </td> <td>40 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060808_233741_000003292050_00116_23216_6720.N1 </td> <td>0 </td> <td>35 </td></tr>
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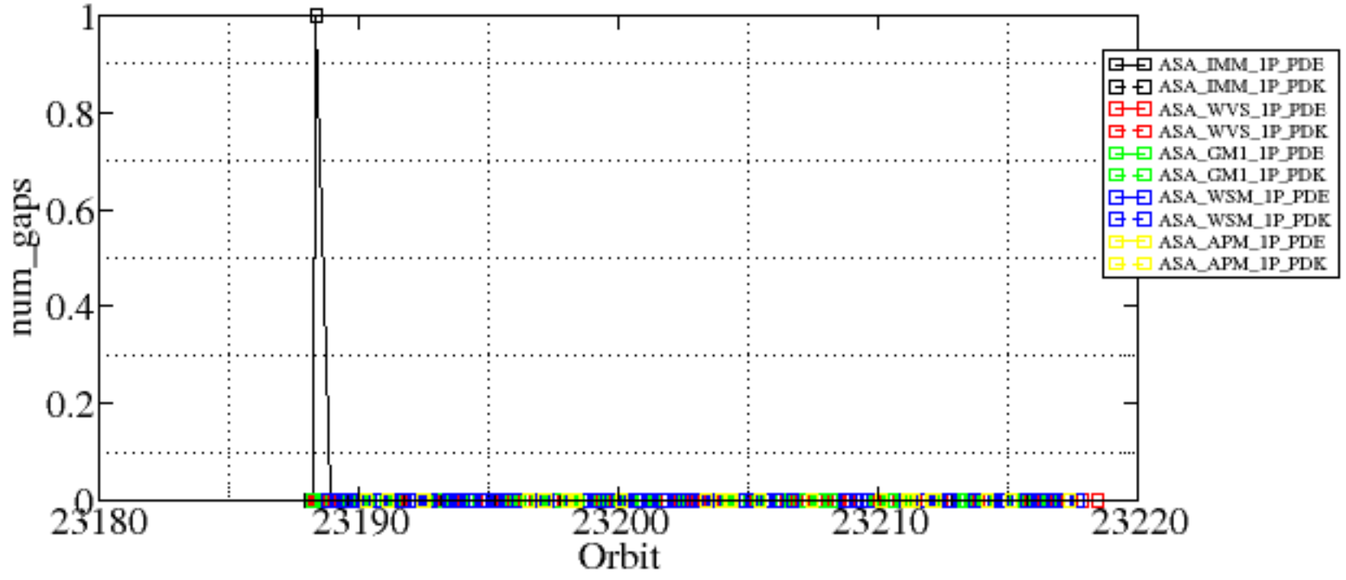
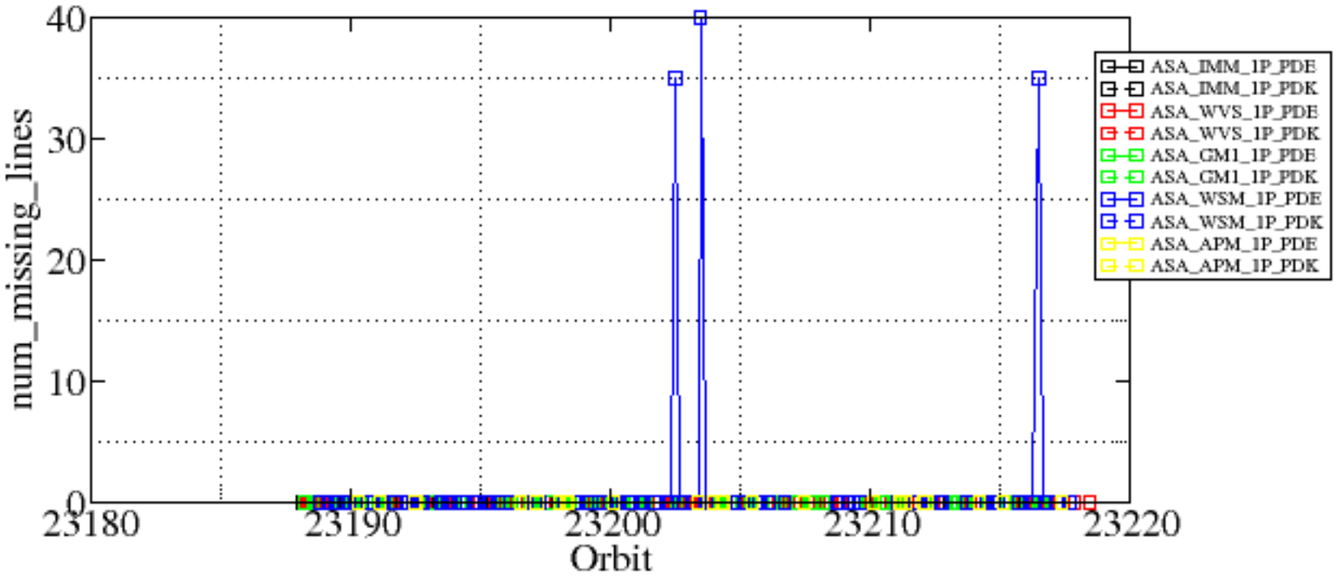
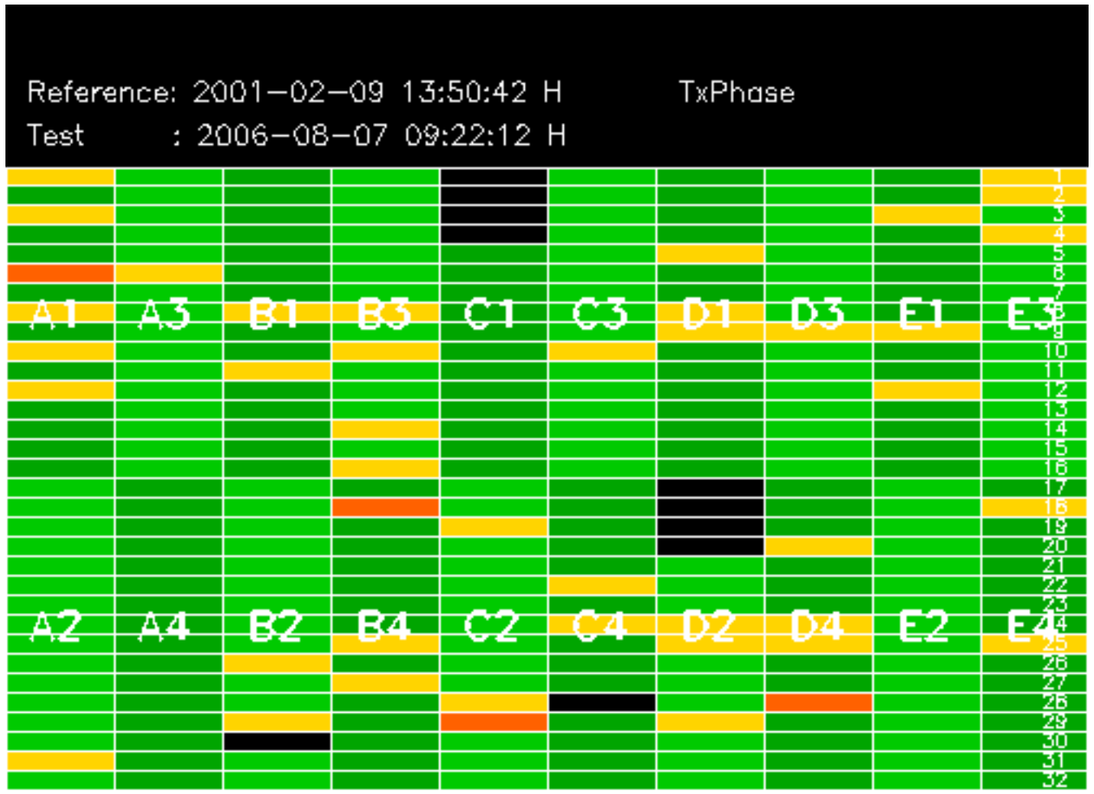

num_gaps
1
0.8
0.6
0.4
0.2
0
23180
23190
23200
23210
23220
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
40
30
20
10
0
23180
23190
23200
23210
23220
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
Test : 2006-08-07 09:22:12 H
TxPhase
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
11
12
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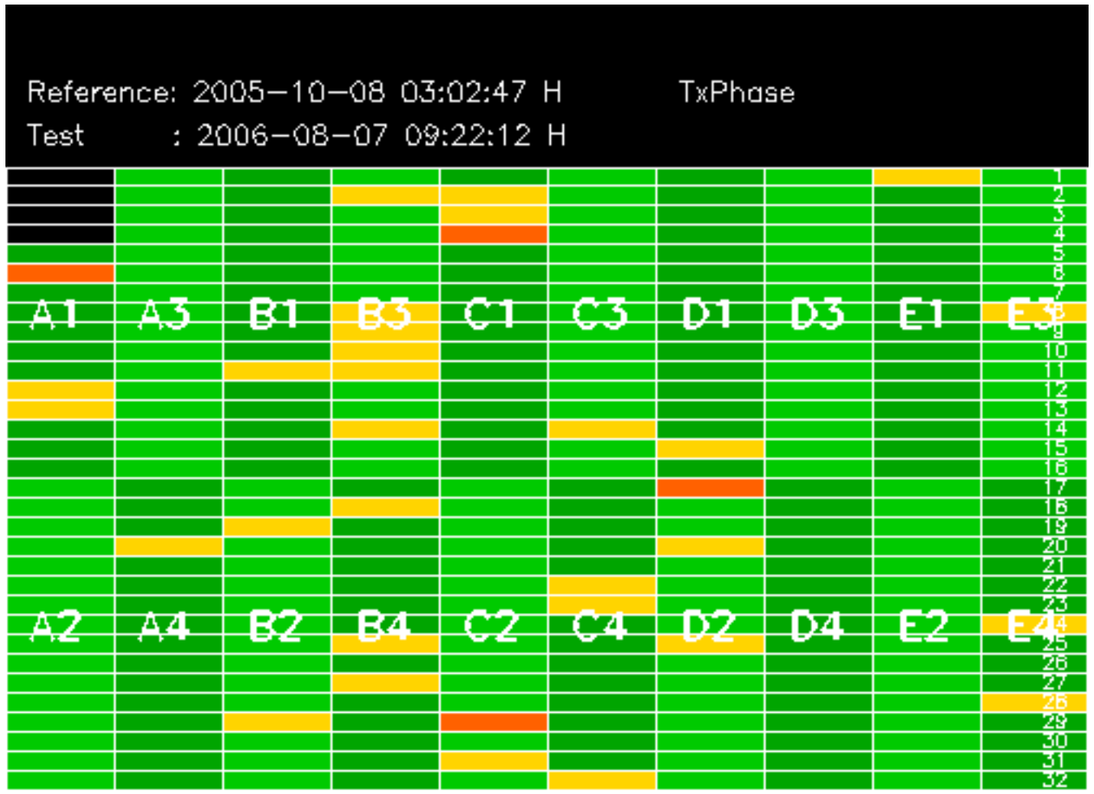
32


Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2006-08-07 09:22:12 H
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
11
12
13
14
15
16
17
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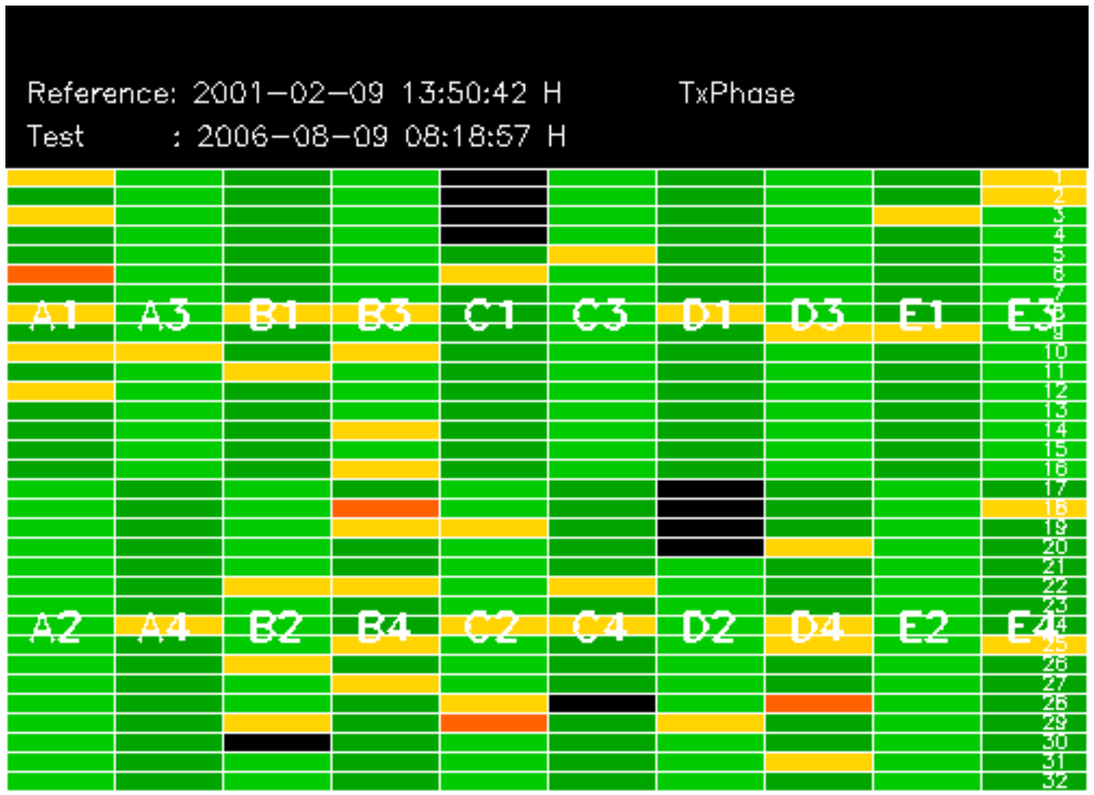
31
32


Reference: 2001-02-09 13:50:42 H
Test : 2006-08-09 08:18:57 H
TxPhase
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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9
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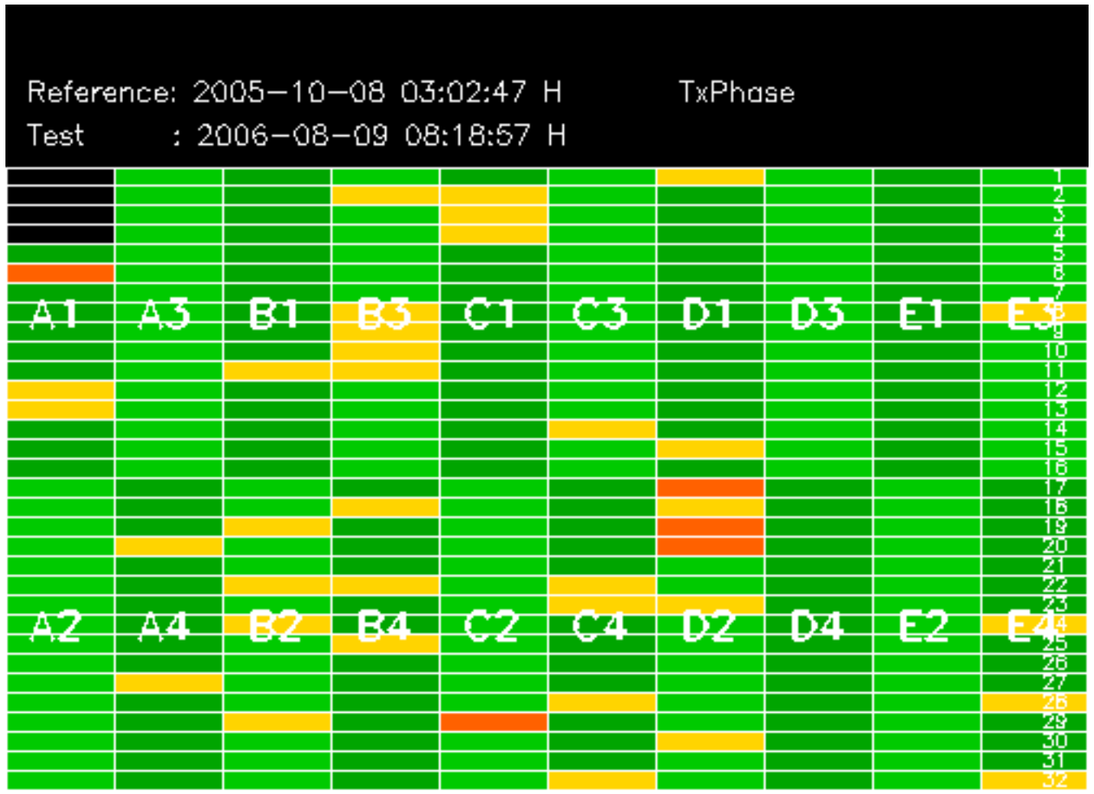
Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2006-08-09 08:18:57 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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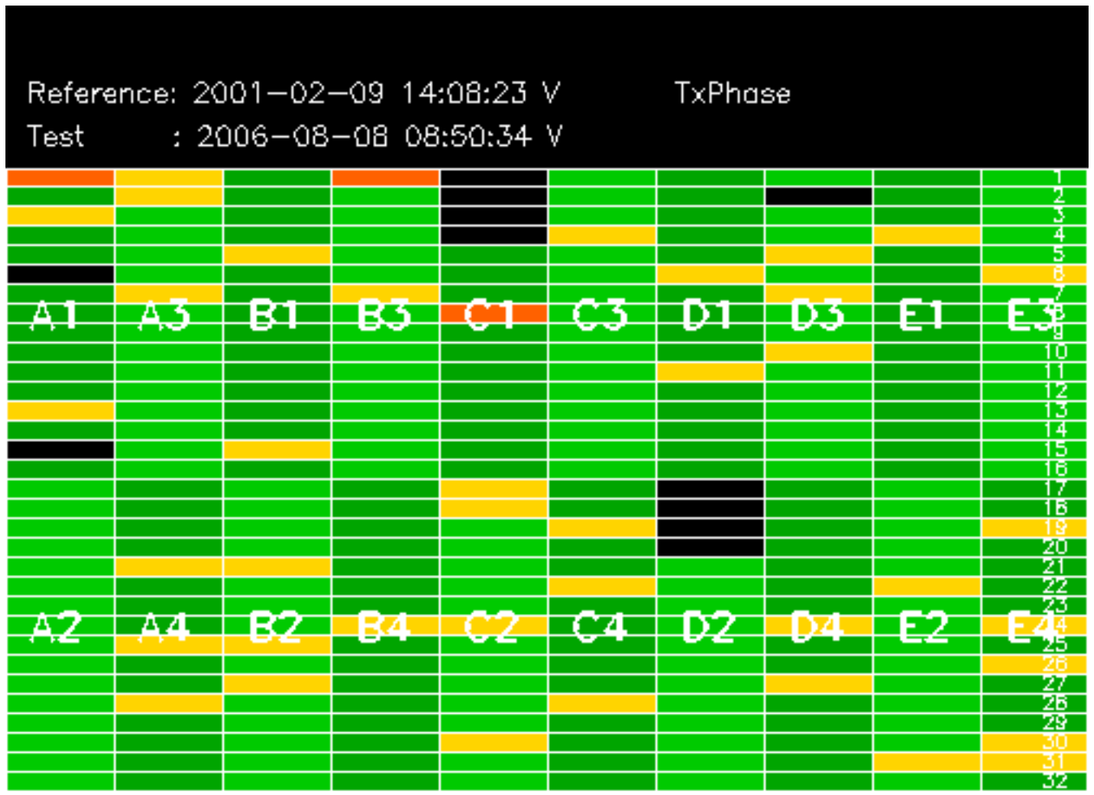
Reference: 2001-02-09 14:08:23 V
Test : 2006-08-08 08:50:34 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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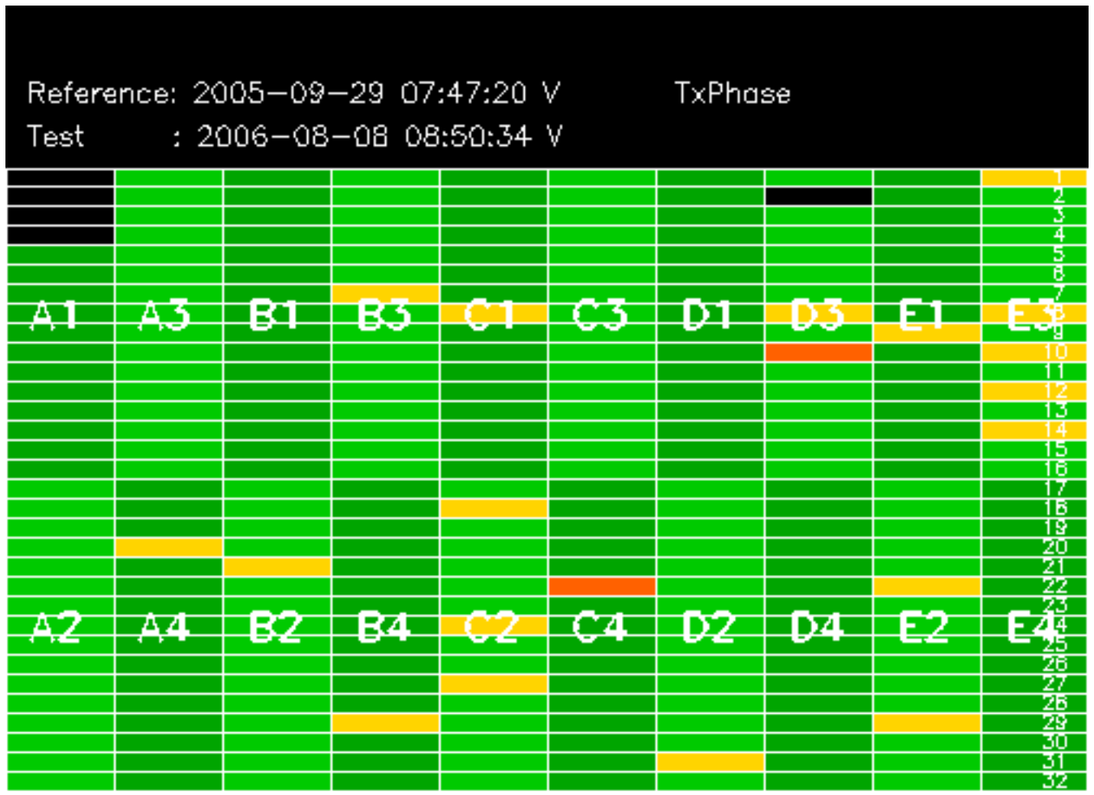
Reference: 2005-09-29 07:47:20 V
TxPhase
Test : 2006-08-08 08:50:34 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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3
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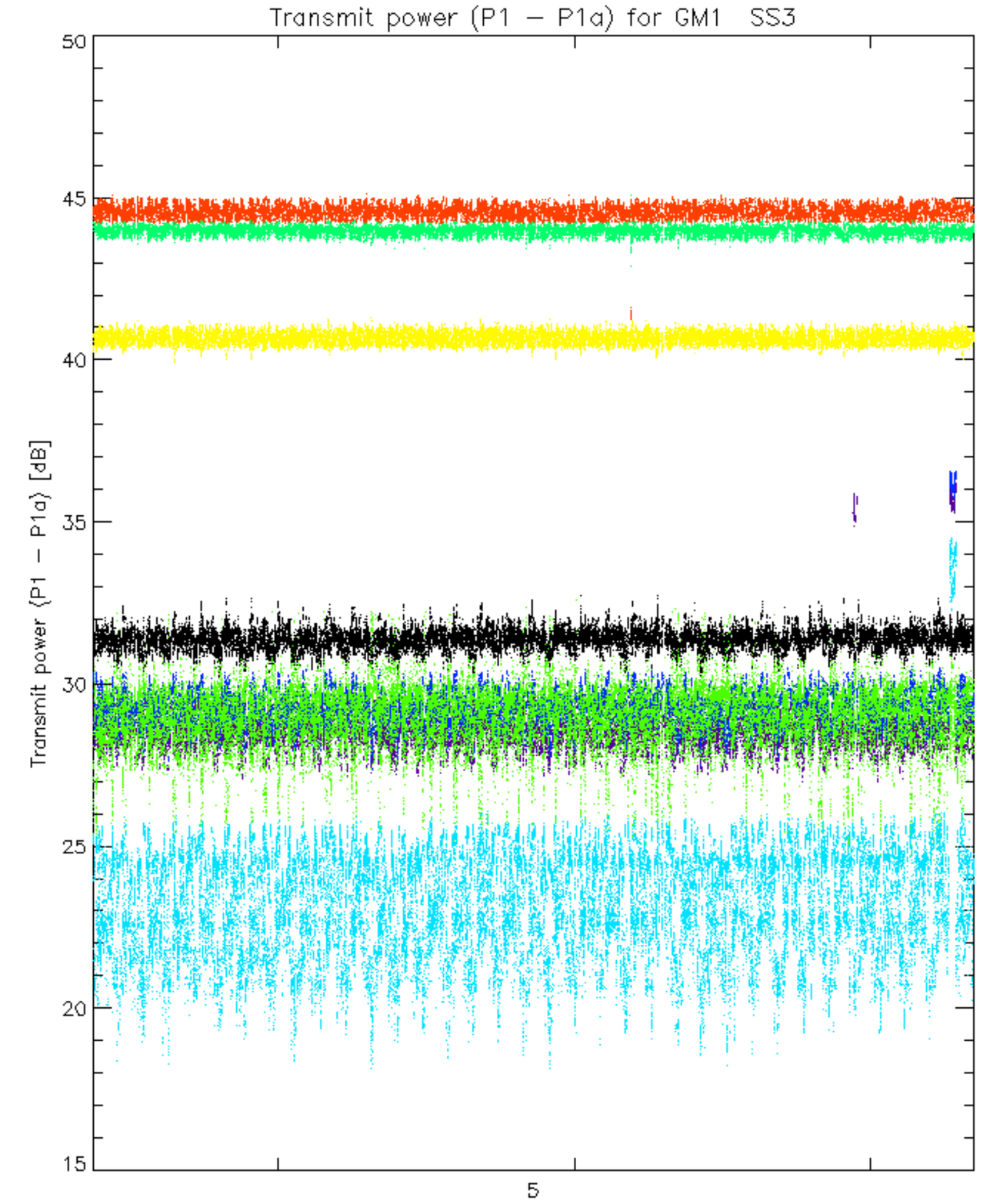
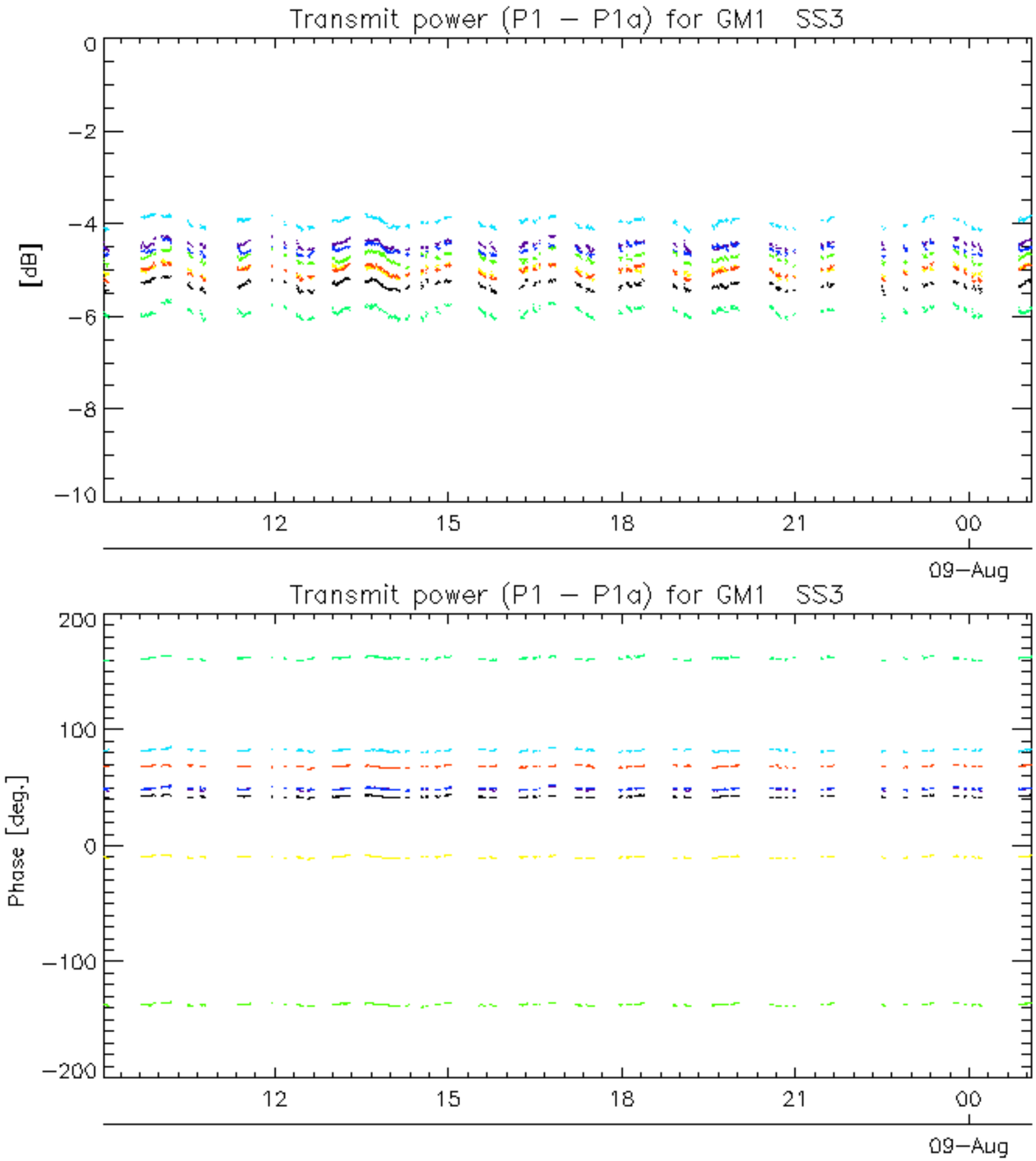
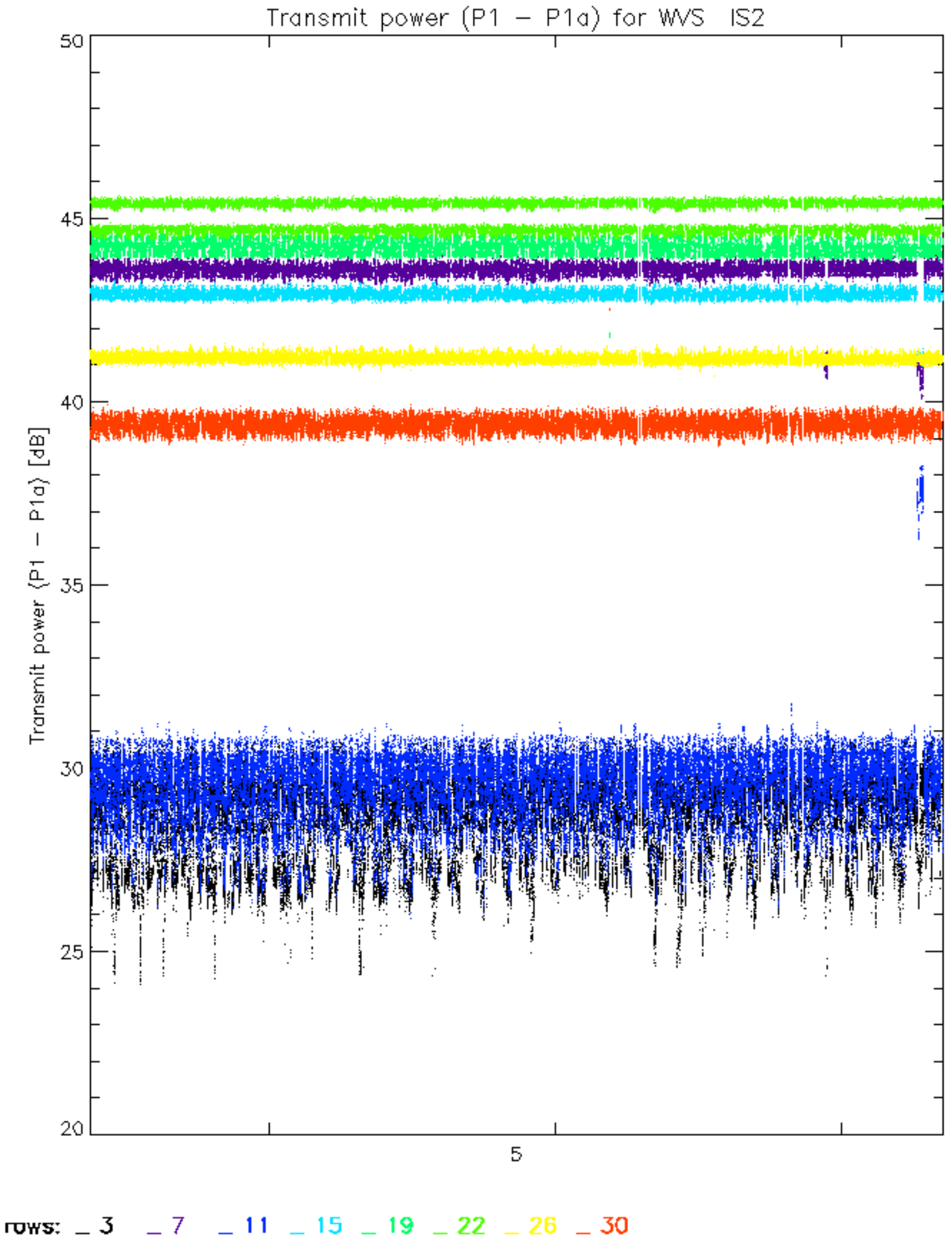
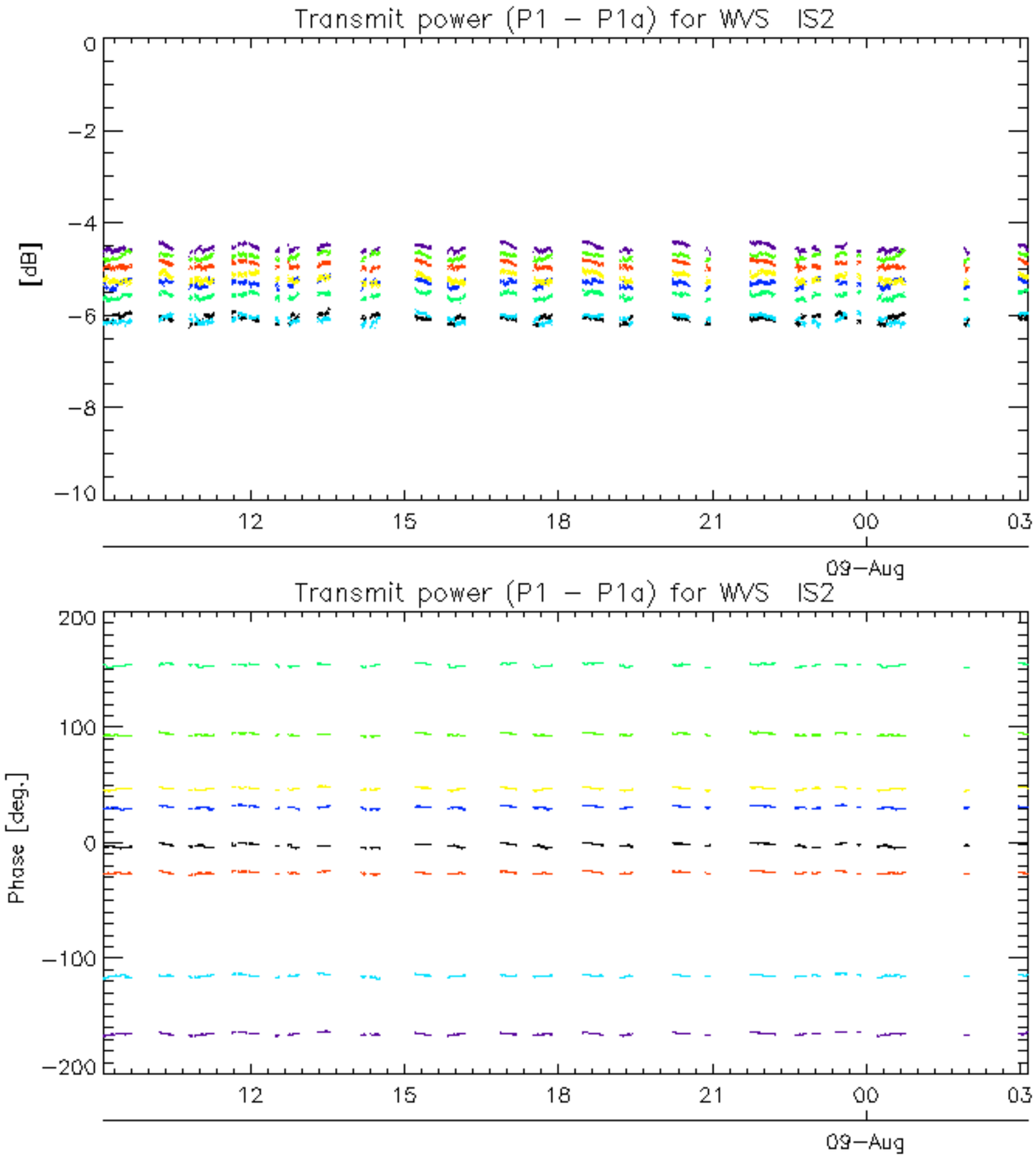

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
45
40
35
30
25
20
15
5
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
12
15
18
21
00
09–Aug
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
12
15
18
21
00
09–Aug
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
50
45
40
35
30
25
20
5
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
12
15
18
21
00
03
09–Aug
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
12
15
18
21
00
03
09–Aug
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.