PRELIMINARY REPORT OF 060901

last update on Fri Sep 1 16:39:27 GMT 2006

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 2006-08-31 00:00:00 to 2006-09-01 16:39:27

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	46	66	18	7	0
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	46	66	18	7	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	46	66	18	7	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	46	66	18	7	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	27	54	37	22	54
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	27	54	37	22	54
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	27	54	37	22	54
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	27	54	37	22	54

2.3 - Browse Visual Inspection

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	20060831 100807
H	20060830 071833

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	-3.941973	0.009908	0.004469
7	P1	-3.077159	0.051460	0.111757
11	P1	-4.083034	0.064325	0.086240
15	P1	-6.200571	0.094571	0.047525
19	P1	-3.468887	0.009241	-0.080111
22	P1	-4.562561	0.024640	0.013458
26	P1	-3.928667	0.018997	-0.031400
30	P1	-5.760617	0.025197	0.013832
3	P1	-16.548540	0.262993	-0.085430
7	P1	-16.852182	0.642979	0.546180
11	P1	-16.832996	0.305976	0.174894
15	P1	-12.964058	0.150285	0.120836
19	P1	-14.523658	0.052129	-0.089098
22	P1	-15.835011	0.552876	0.390558
26	P1	-15.171642	0.206086	-0.140417
30	P1	-17.008257	0.321565	0.175945

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.865818	0.084175	0.107301
7	P2	-21.859383	0.099404	-0.003091
11	P2	-15.751152	0.112773	0.034007
15	P2	-7.100304	0.097779	0.036333
19	P2	-9.114624	0.091444	0.017198
22	P2	-18.133928	0.086029	0.048637
26	P2	-16.397034	0.092783	0.005890
30	P2	-19.478052	0.090982	0.039599

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.172727	0.003784	-0.003604
7	P3	-8.172727	0.003784	-0.003604
11	P3	-8.172727	0.003784	-0.003604
15	P3	-8.172727	0.003784	-0.003604
19	P3	-8.172727	0.003784	-0.003604
22	P3	-8.172727	0.003784	-0.003604
26	P3	-8.172770	0.003783	-0.003586
30	P3	-8.172770	0.003783	-0.003586

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	-3.832832	0.021312	-0.018720
7	P1	-2.496508	0.282207	0.250558
11	P1	-2.897427	0.141266	0.049778
15	P1	-3.655697	0.145889	-0.002888
19	P1	-3.430205	0.013324	-0.018295
22	P1	-5.082486	0.034160	-0.004323
26	P1	-5.871020	0.024646	-0.011515
30	P1	-5.185534	0.037688	0.035882
3	P1	-11.628826	0.067407	-0.013133
7	P1	-9.918722	0.187777	0.113847
11	P1	-10.300646	0.083914	-0.081509
15	P1	-10.822555	0.176038	-0.161092
19	P1	-15.534211	0.087778	0.003734
22	P1	-20.867241	1.732849	0.328447
26	P1	-16.083870	0.411643	0.354390
30	P1	-17.977190	0.722280	-0.016572

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.462576	0.082384	0.128108
7	P2	-22.250046	0.197552	0.160468
11	P2	-10.941556	0.056274	0.145295
15	P2	-4.877528	0.042434	0.046989
19	P2	-6.855107	0.040556	0.029492
22	P2	-8.178018	0.062202	0.049134
26	P2	-24.168112	0.127141	0.019696
30	P2	-21.968119	0.077987	0.033548

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.014428	0.003729	-0.009350
7	P3	-8.014351	0.003733	-0.009234
11	P3	-8.014426	0.003734	-0.008750
15	P3	-8.014409	0.003734	-0.008714
19	P3	-8.014500	0.003750	-0.009193
22	P3	-8.014572	0.003722	-0.008922
26	P3	-8.014452	0.003723	-0.009323
30	P3	-8.014336	0.003732	-0.008843

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	0.000554352
	stdev	1.76127e-07
MEAN Q	mean	0.000532652
	stdev	2.14812e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136534
	stdev	0.00107764
STDEV Q	mean	0.136881
	stdev	0.00109412

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006083[011]
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_1PNPDE20060830_143313_000000372050_00425_23525_4947.N1	1	0
ASA_IMM_1PNPDE20060830_144000_000000802050_00426_23526_4951.N1	1	0
ASA_IMM_1PNPDE20060830_202033_000000372050_00429_23529_4959.N1	1	0
ASA_IMM_1PNPDE20060831_003434_000001152050_00431_23531_4974.N1	1	0
ASA_WSM_1PNPDE20060830_043525_000001832050_00420_23520_0077.N1	0	36
ASA_WSM_1PNPDE20060830_180020_000001462050_00428_23528_0191.N1	0	75
ASA_WSM_1PNPDE20060831_040156_000000862050_00434_23534_0306.N1	0	67
ASA_WSM_1PNPDE20060831_112606_000001462050_00438_23538_0359.N1	0	63

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

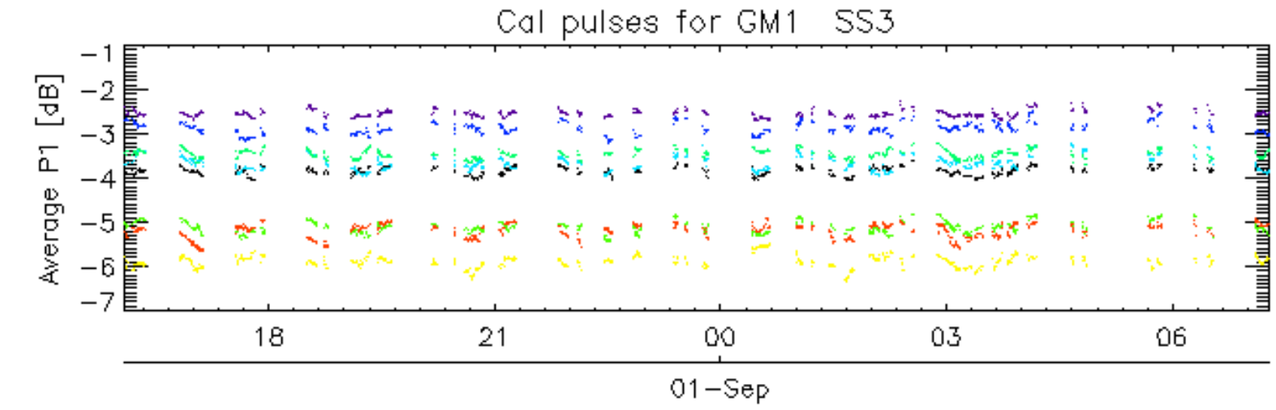
Evolution of Absolute Doppler

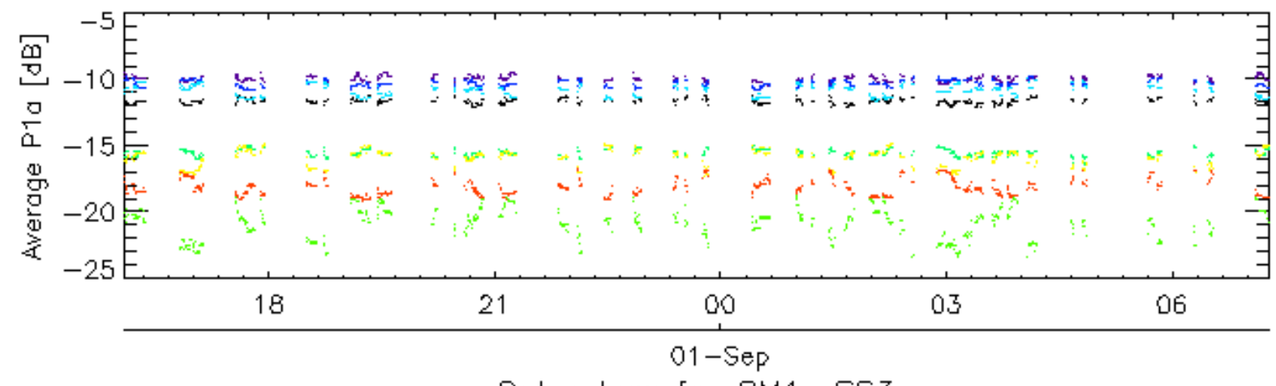
Acsending

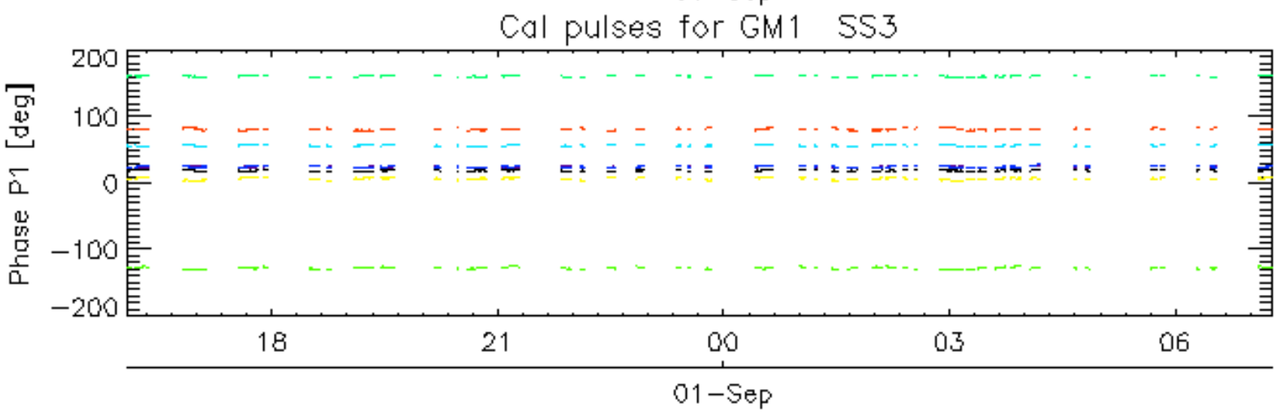
Descending

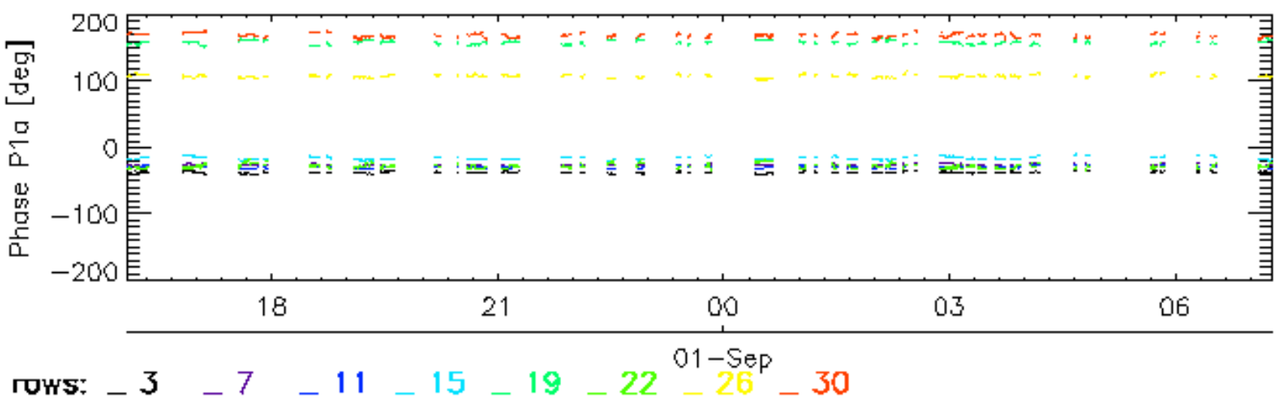
7.6 - Doppler evolution versus ANX for GM1

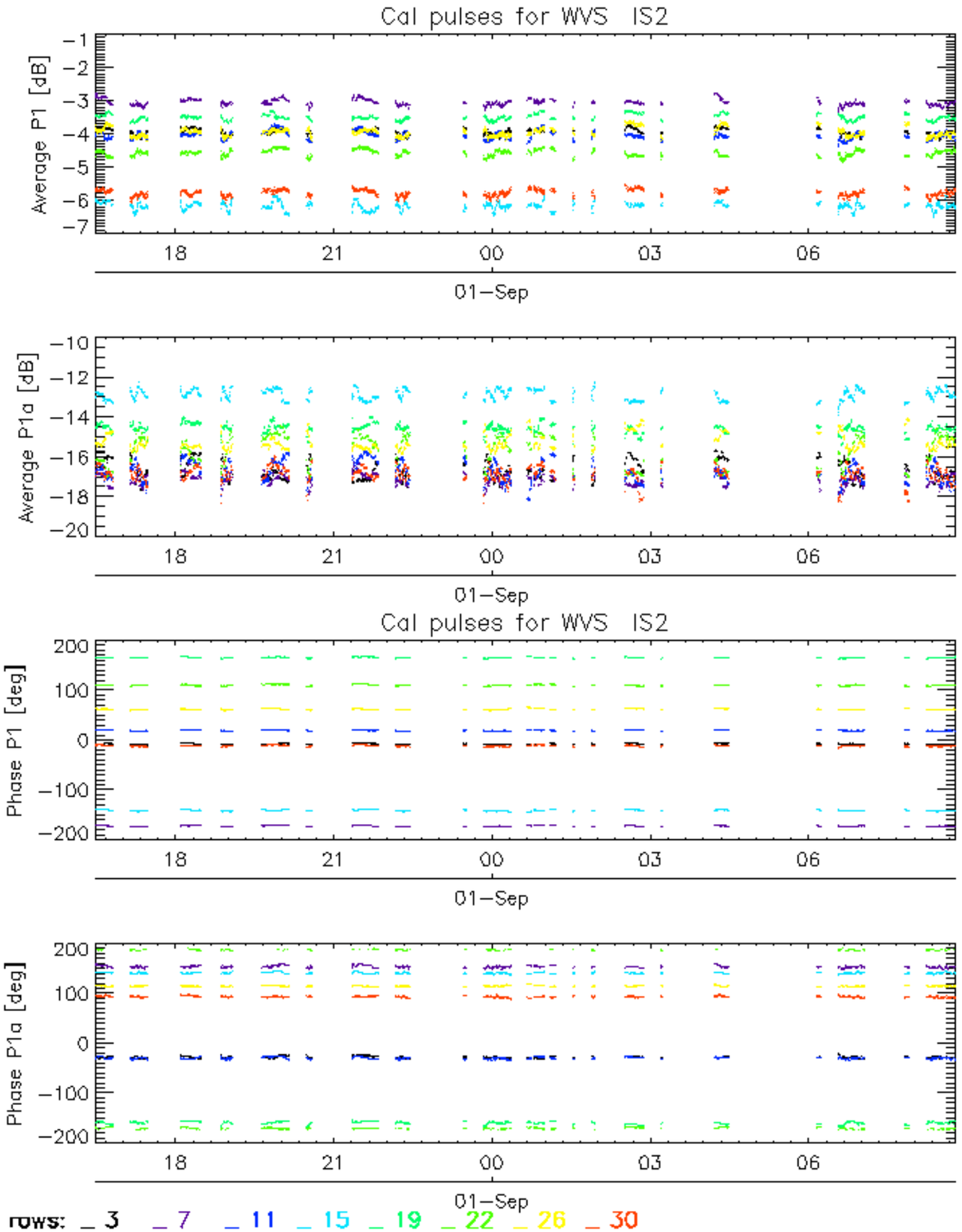
Evolution Doppler error versus ANX

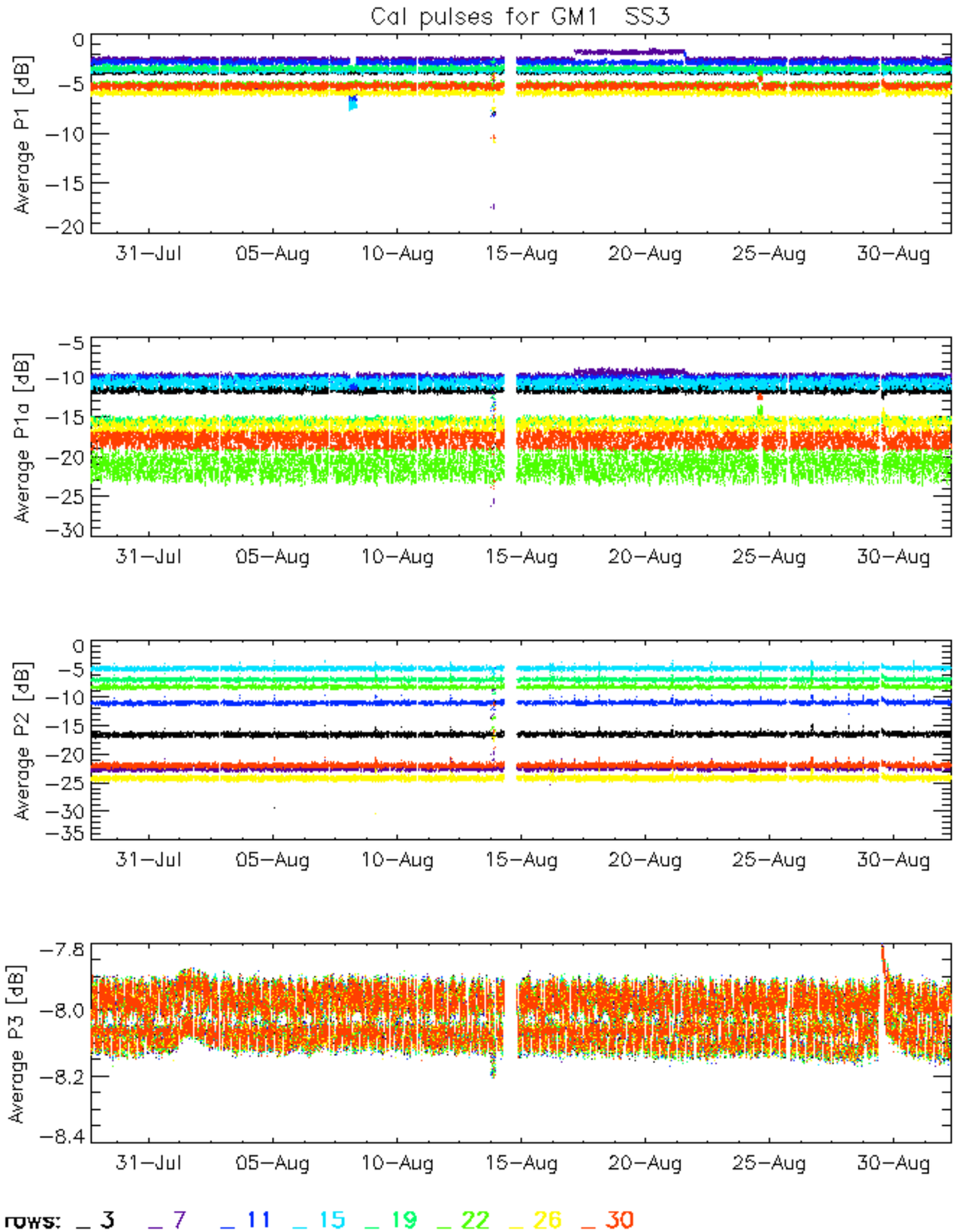


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
01−Sep

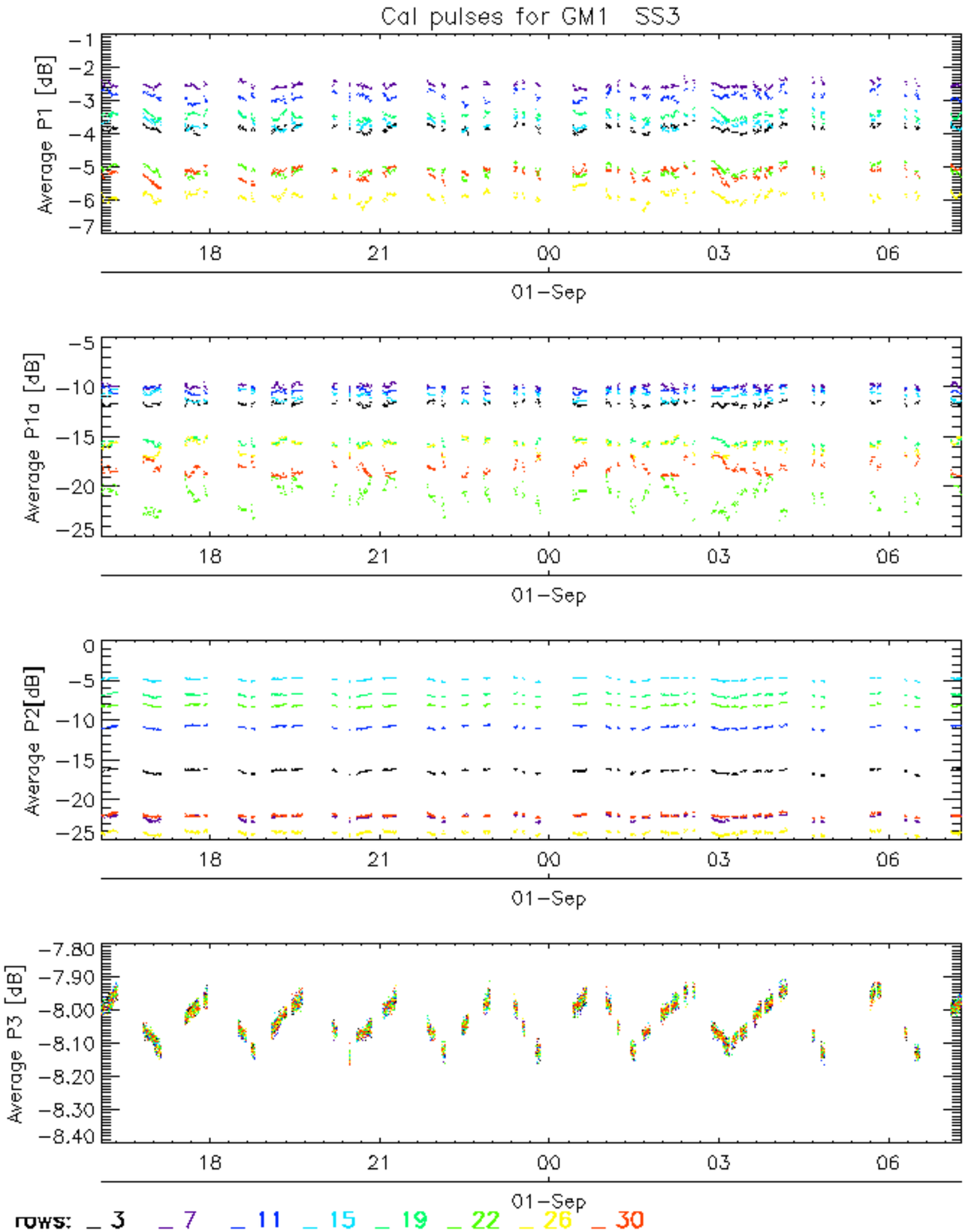

Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
01−Sep

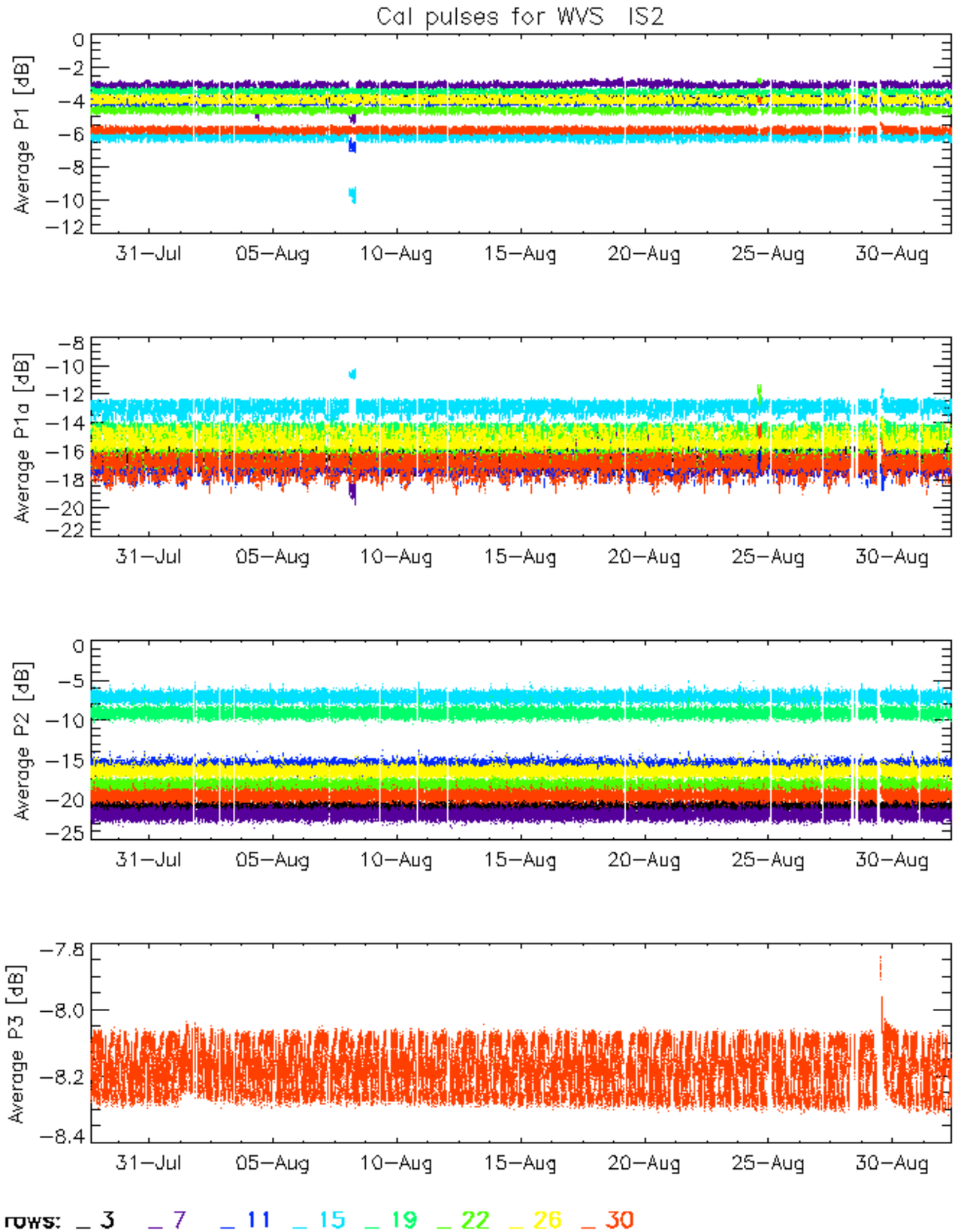

Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
01−Sep

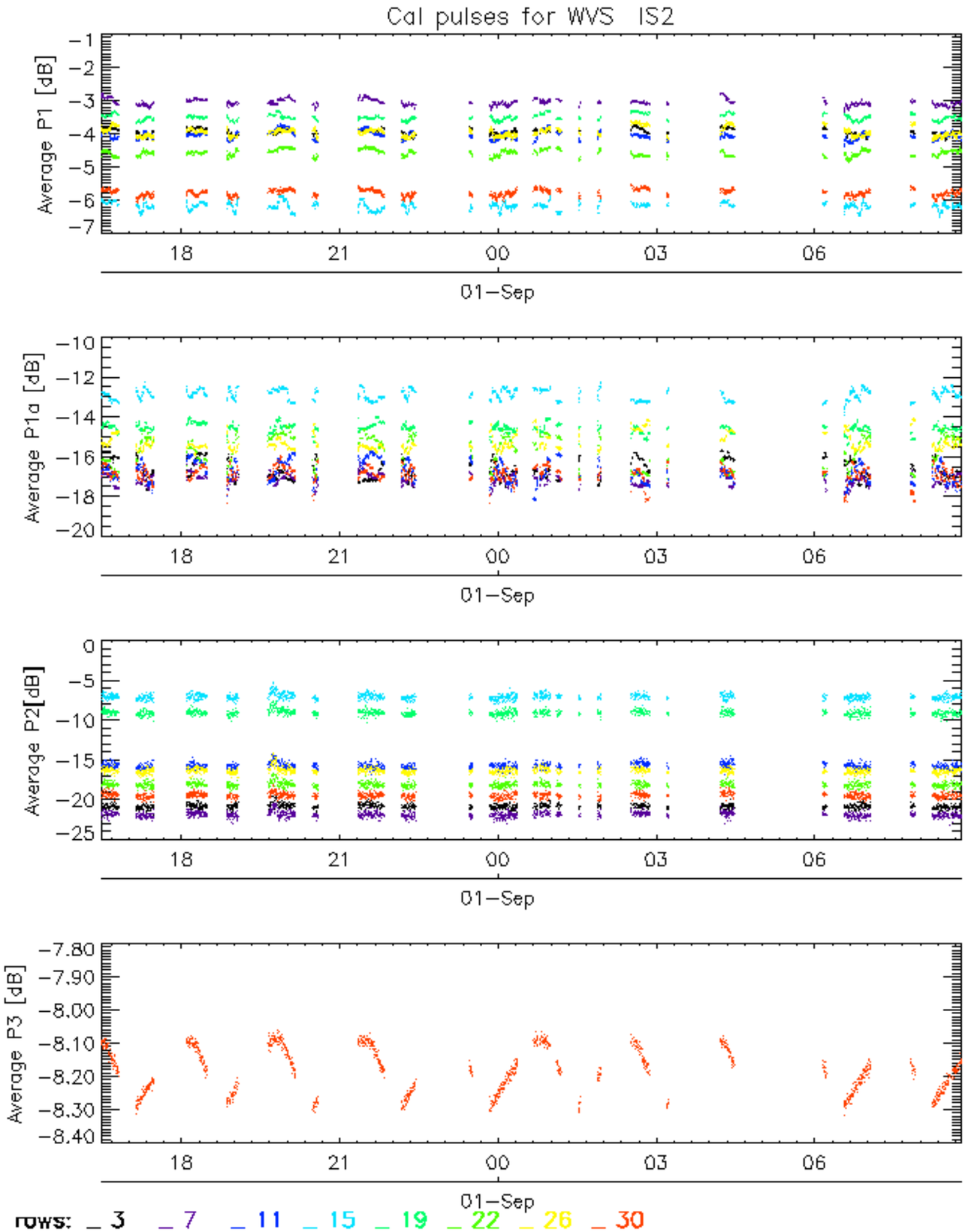

Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
01−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
01−Sep
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
01−Sep
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
01−Sep
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
01−Sep
rows: 3 7 11 15 19 22 26 30

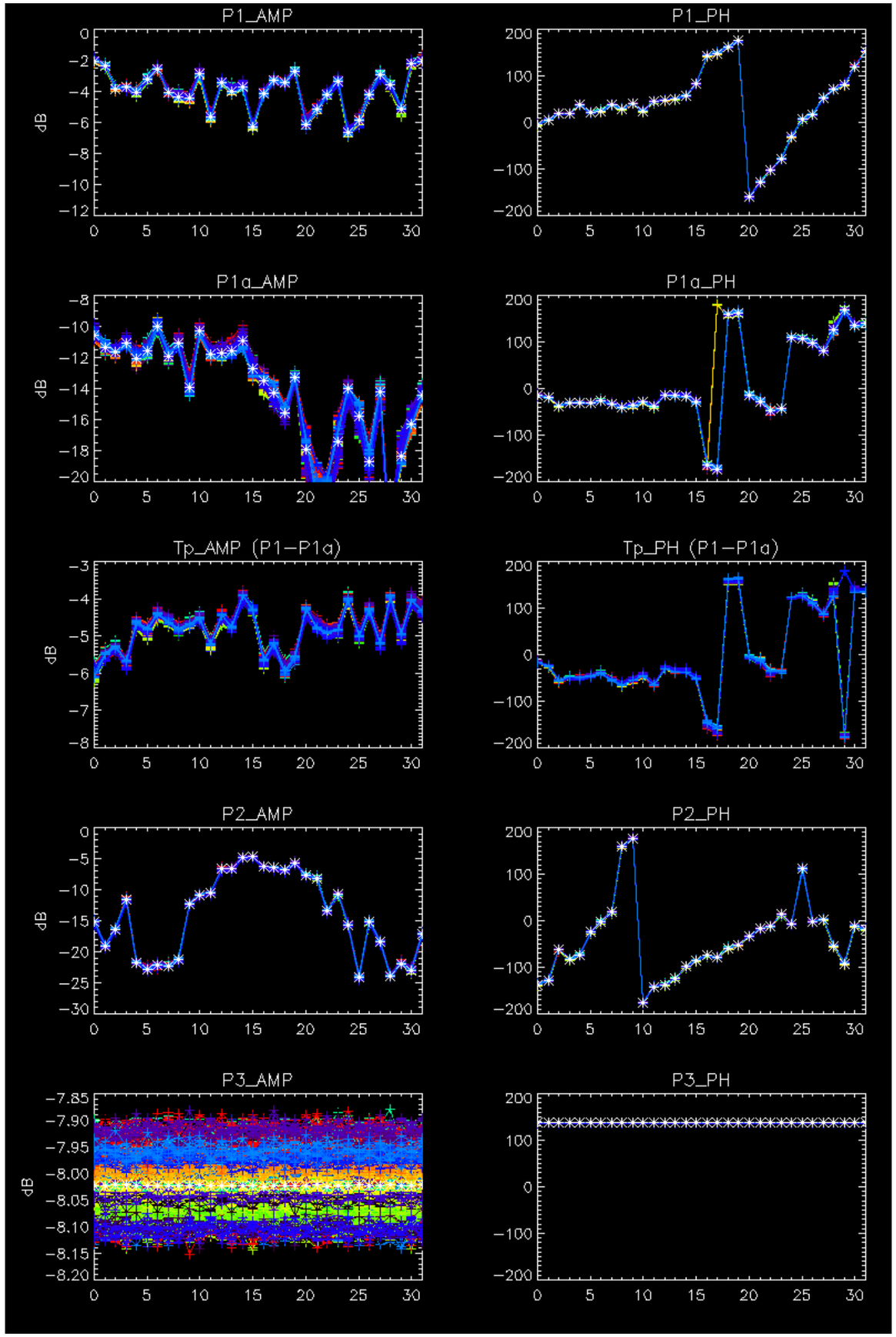

Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
−5
−10
−15
−20
−25
−30
−35
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

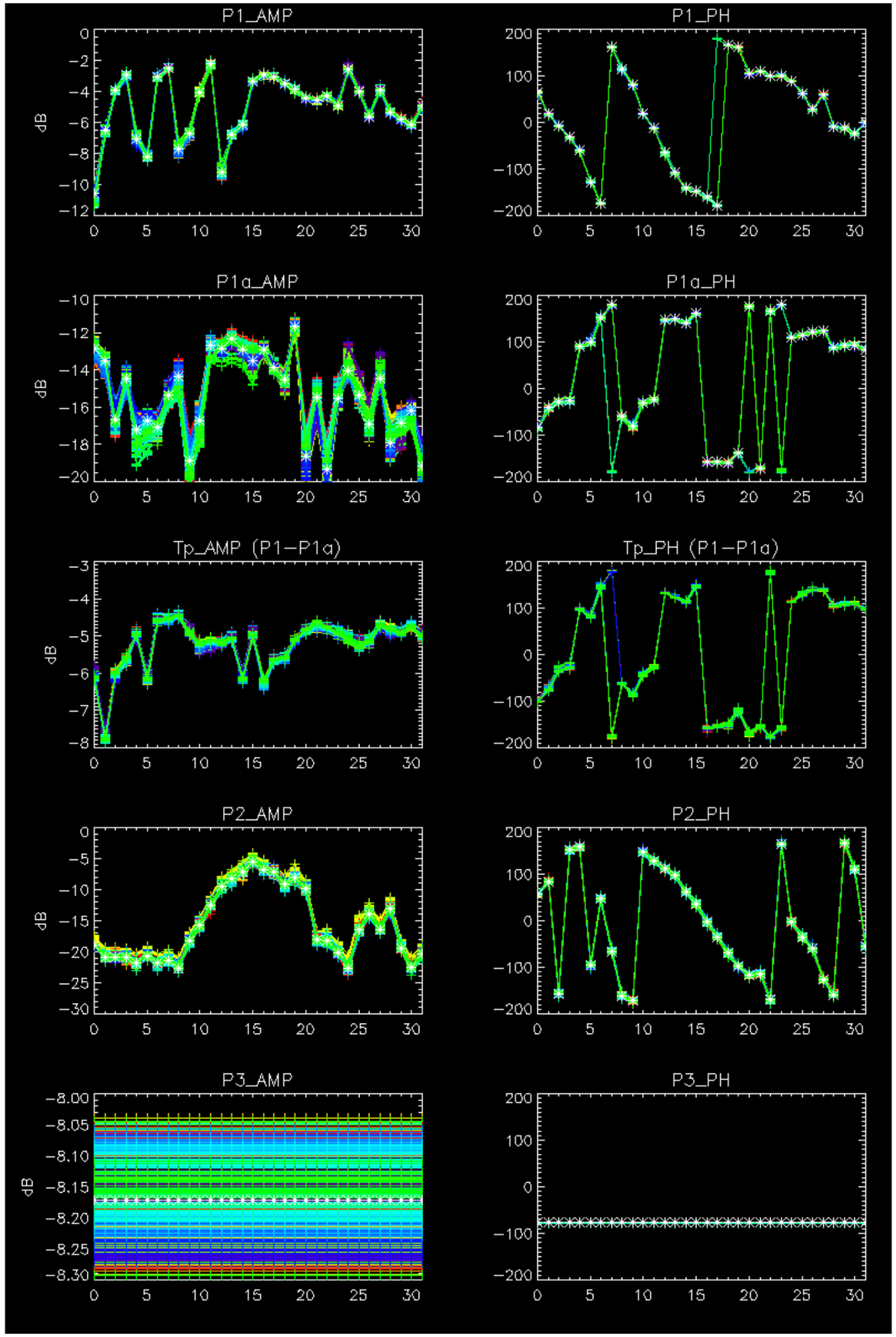

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
01−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
01−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
01−Sep
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
01−Sep
rows: _ 3 _ 7 _ 11 _ 15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


Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug
Average P1a [dB]
−8
−10
−12
−14
−16
−18
−20
−22
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
01−Sep
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
01−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
01−Sep
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
01−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

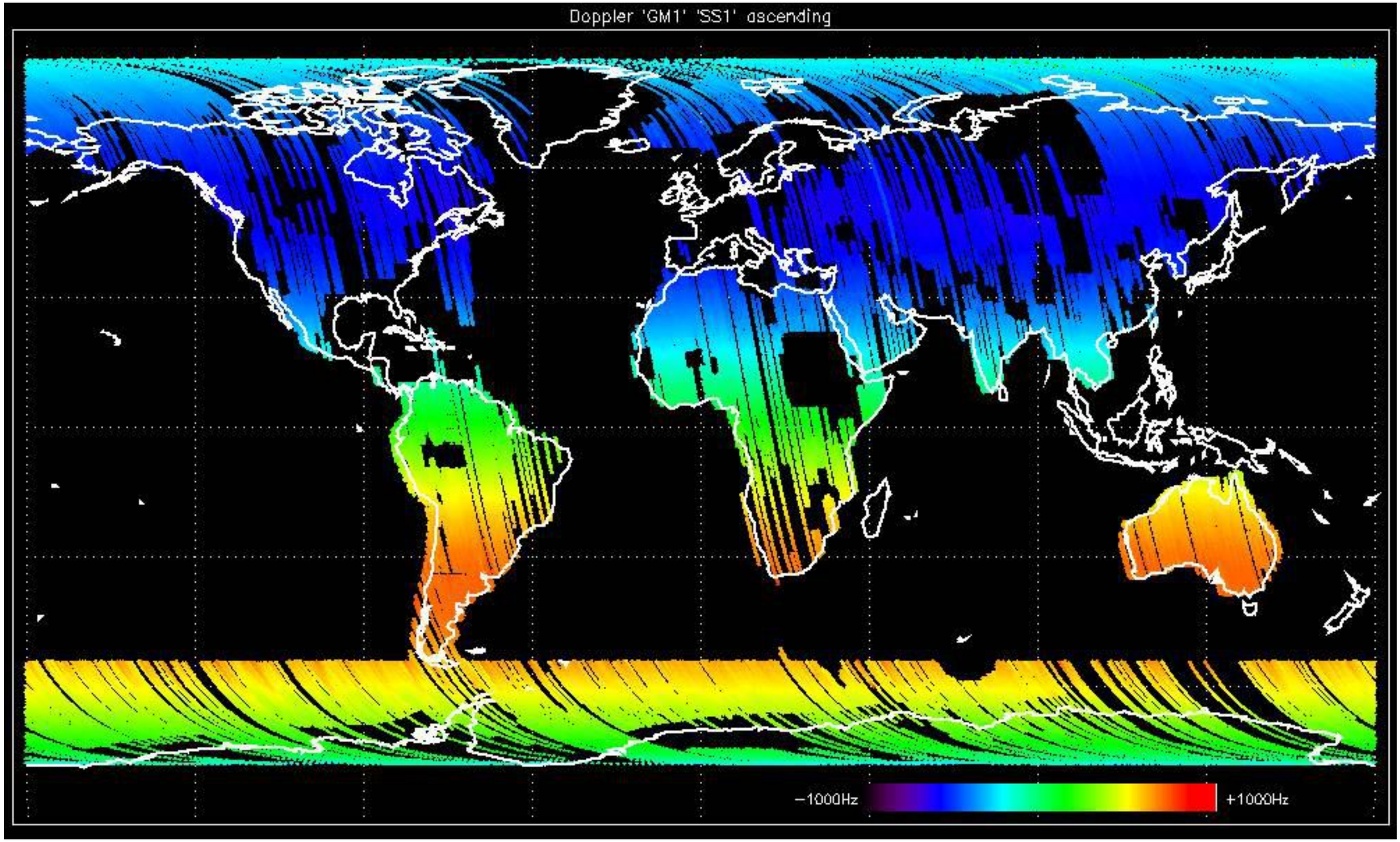
No anomalies observed.

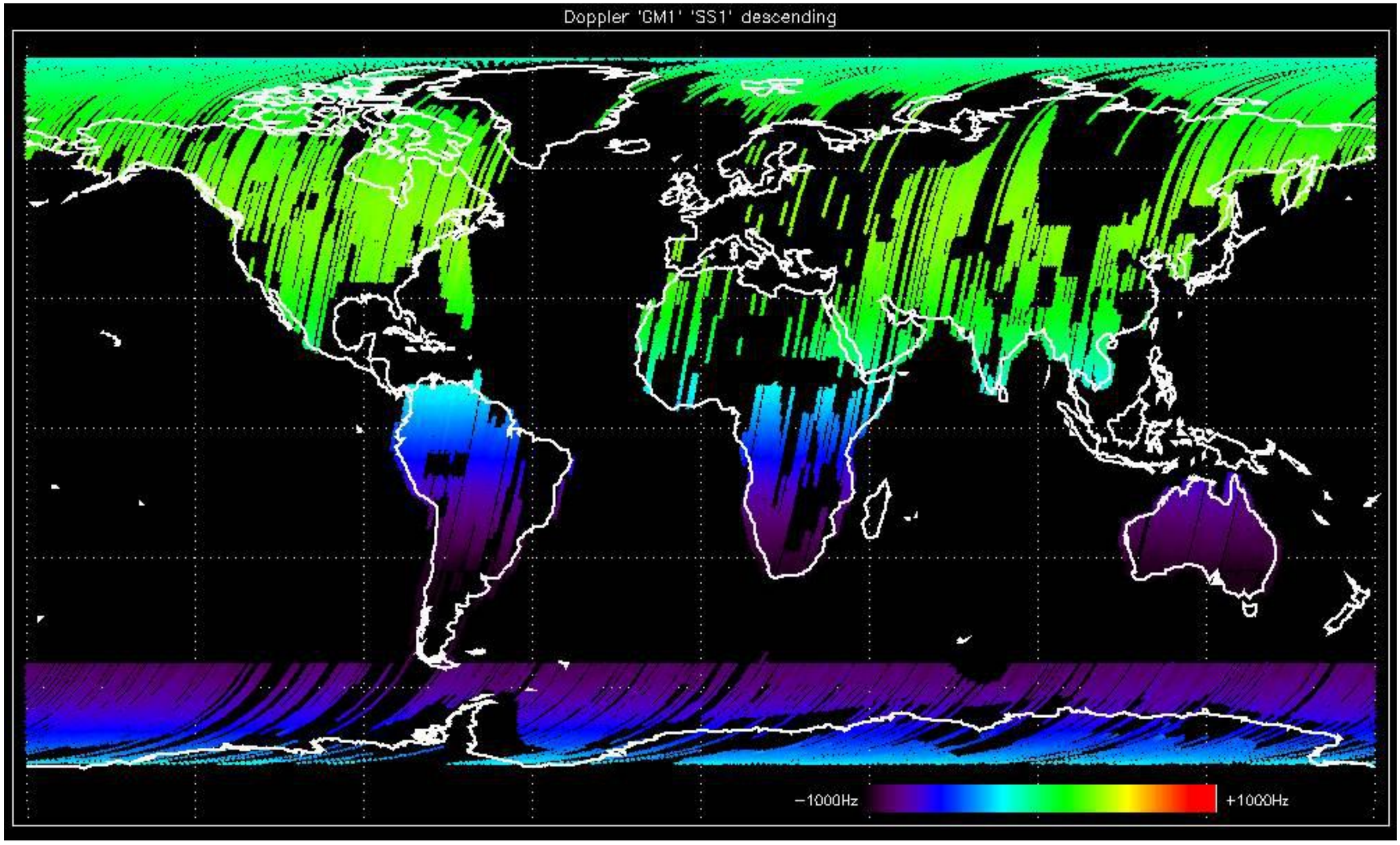

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

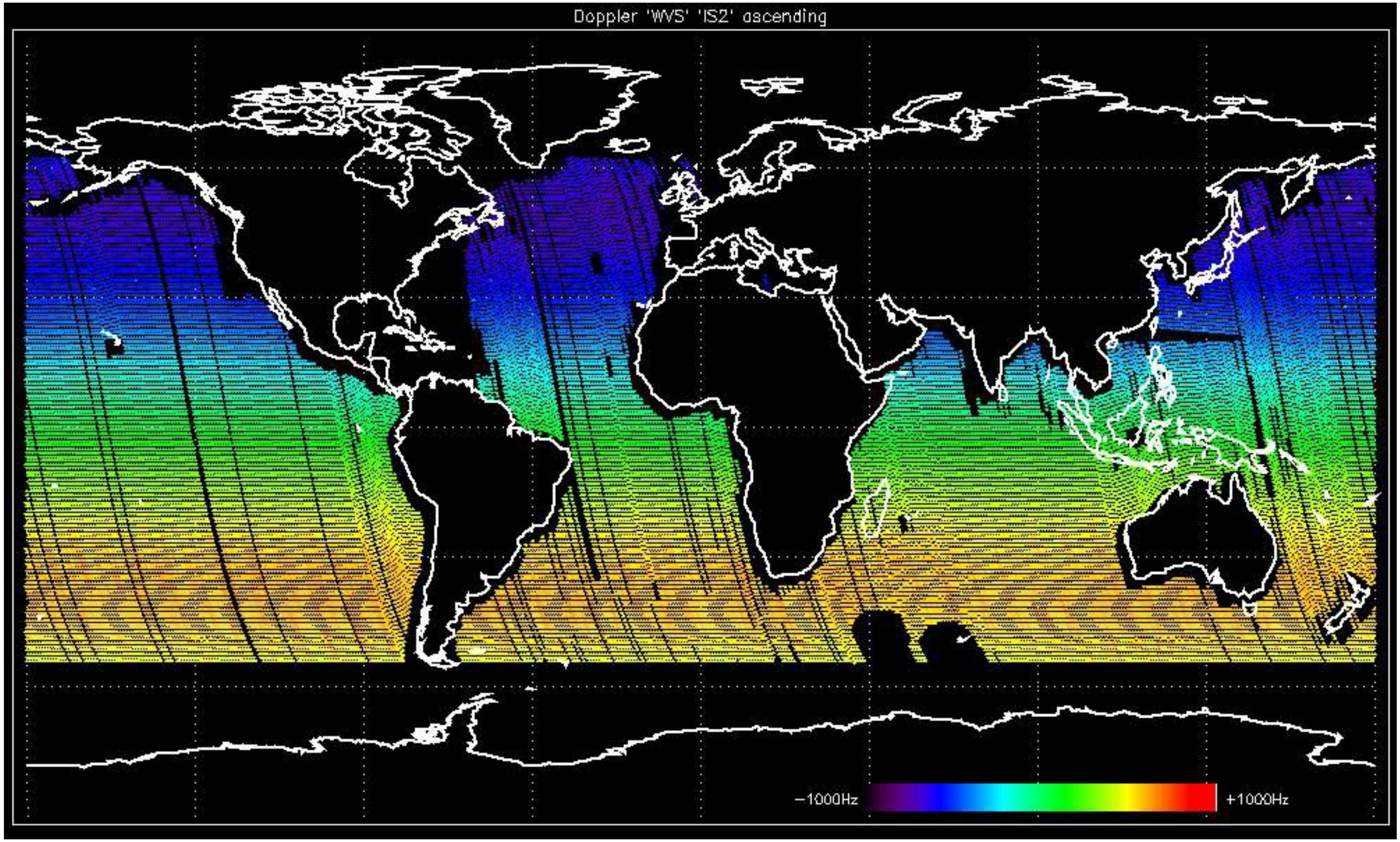

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

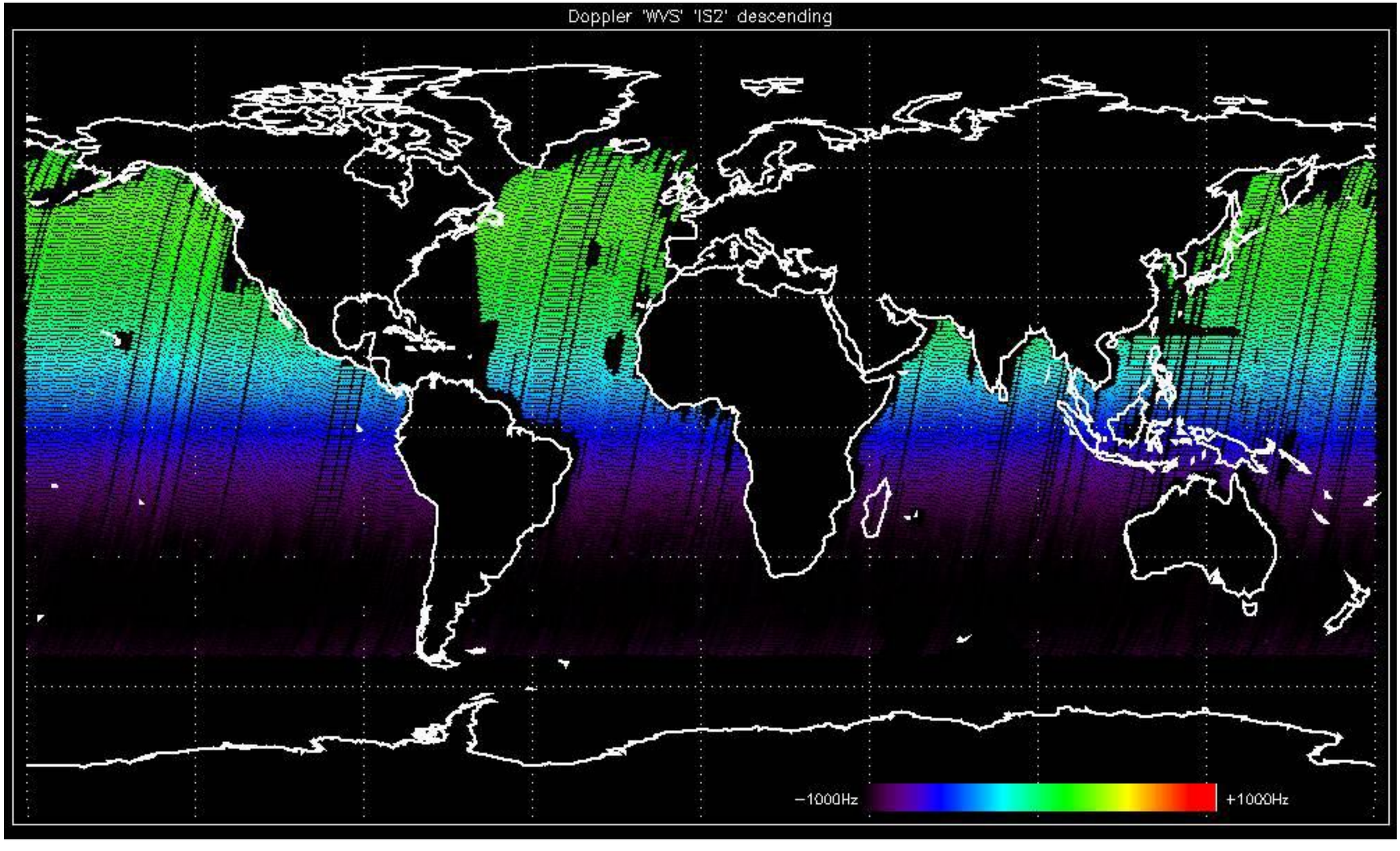
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

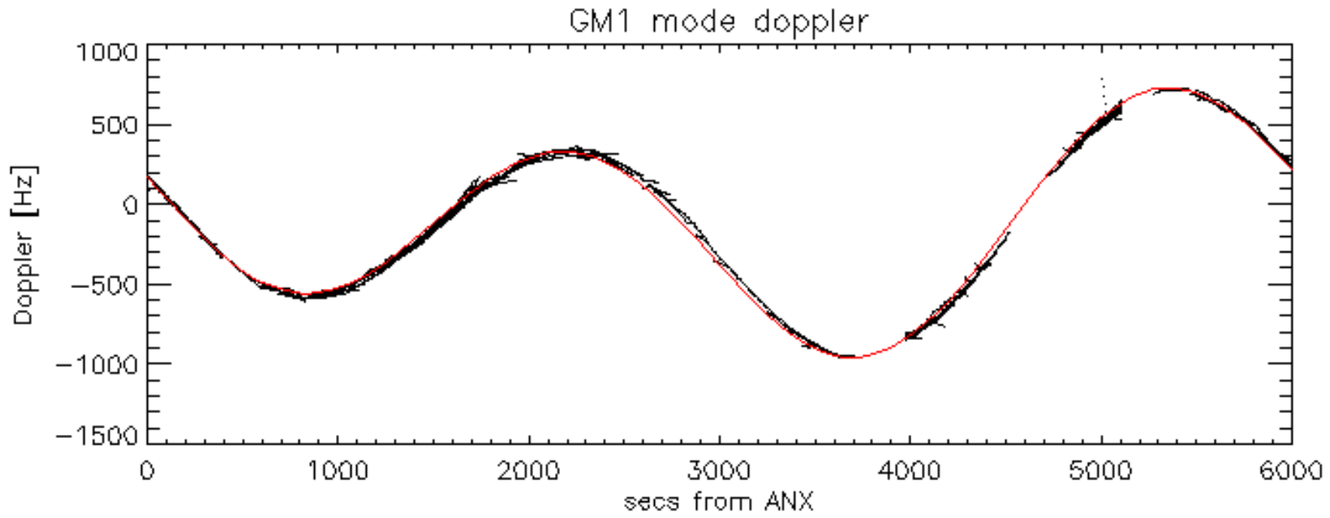
Preliminary report.The data is not yet controled

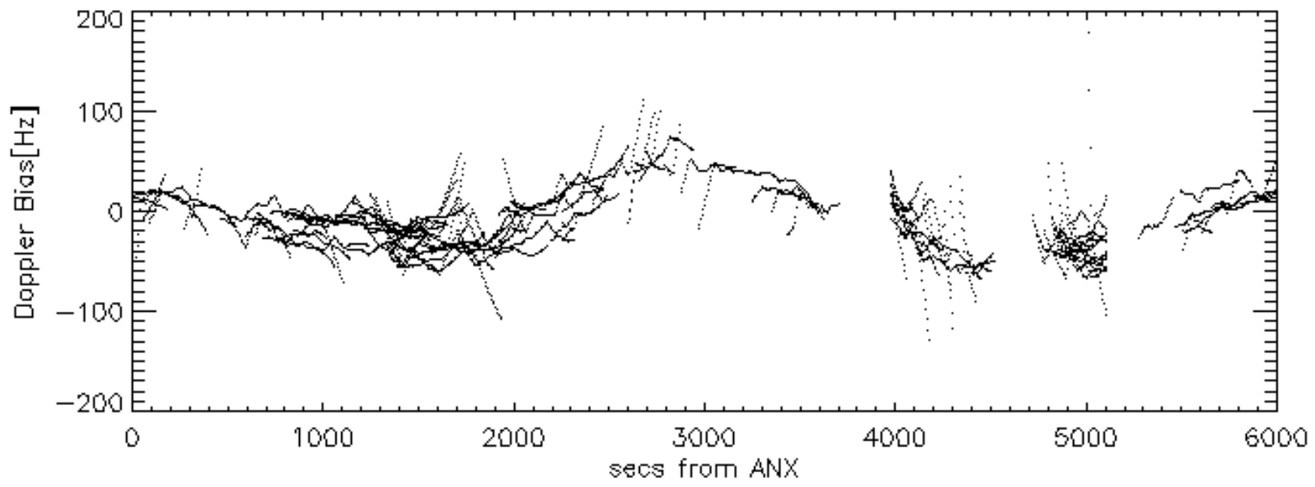

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

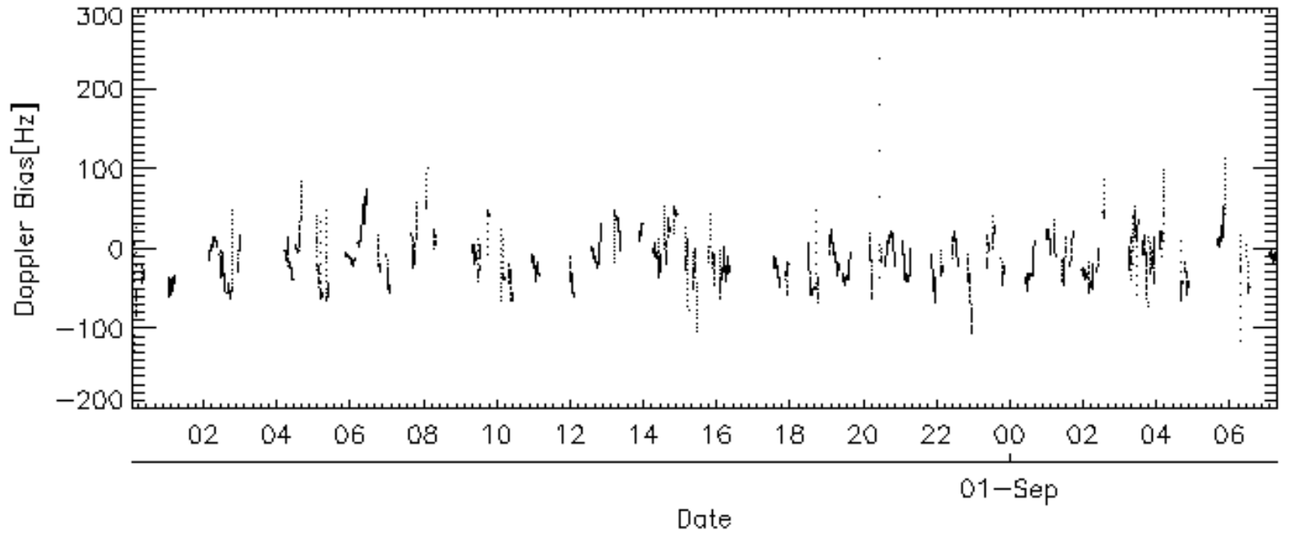

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

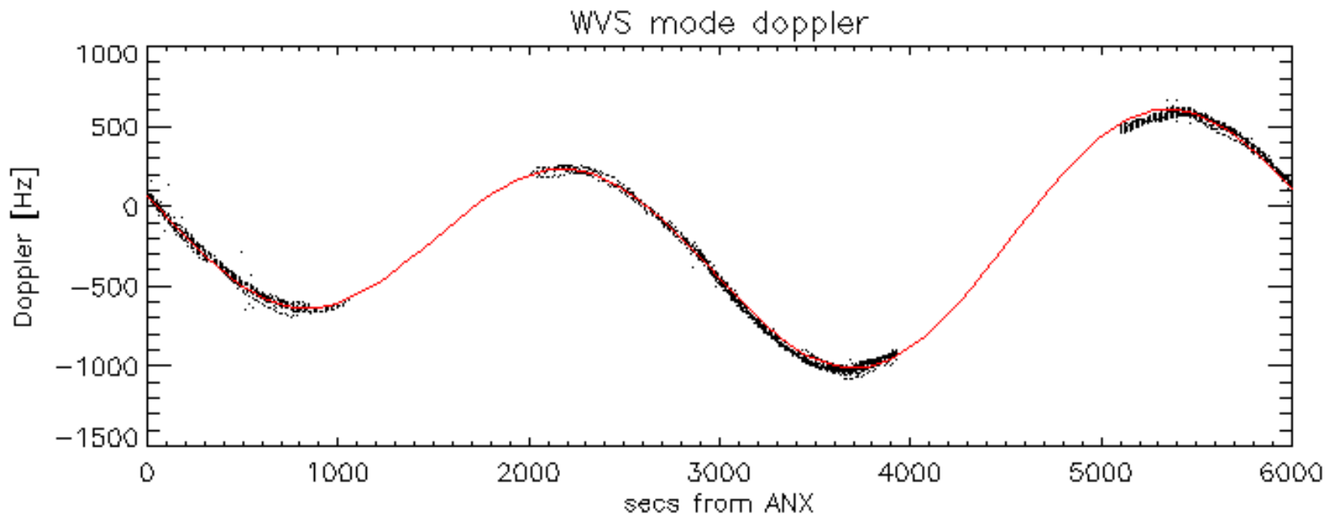

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

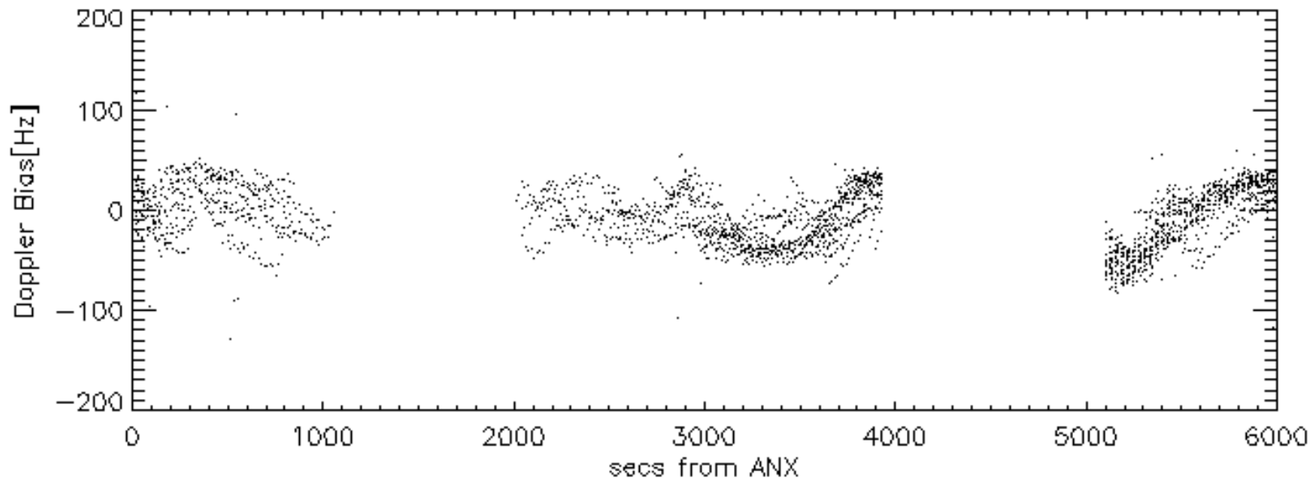

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

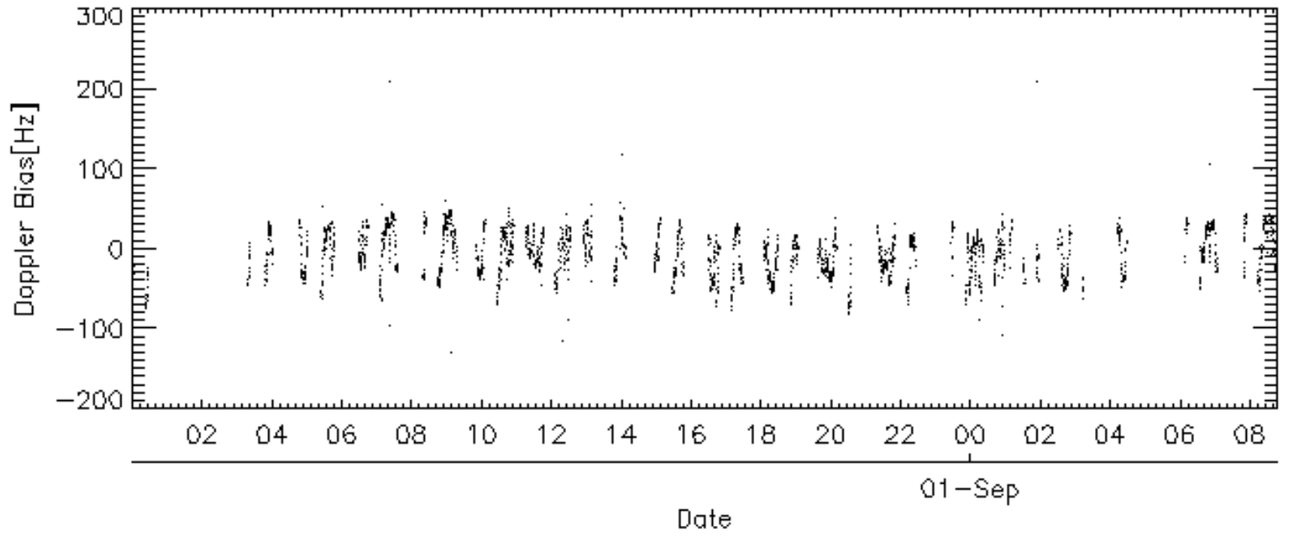

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

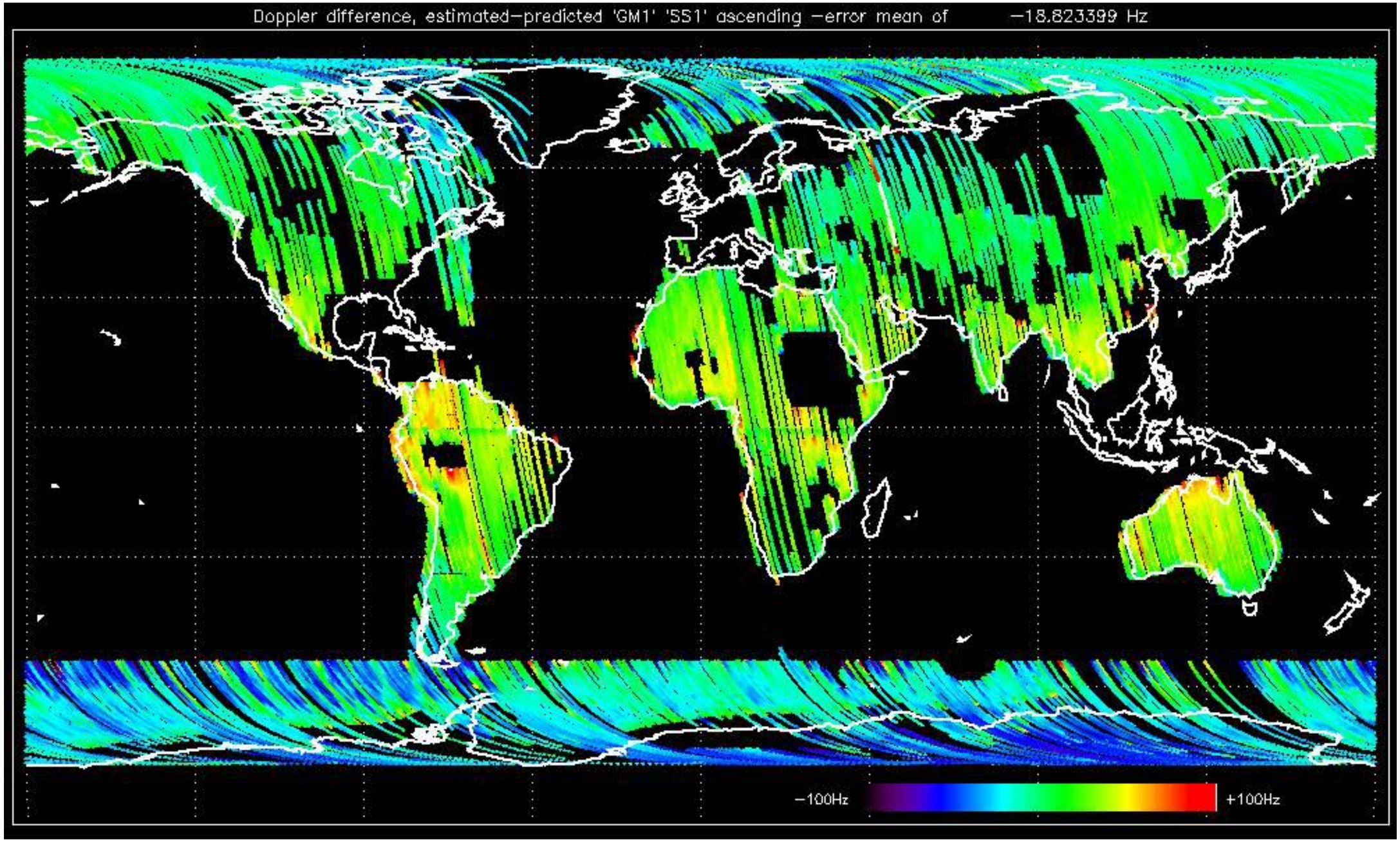

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

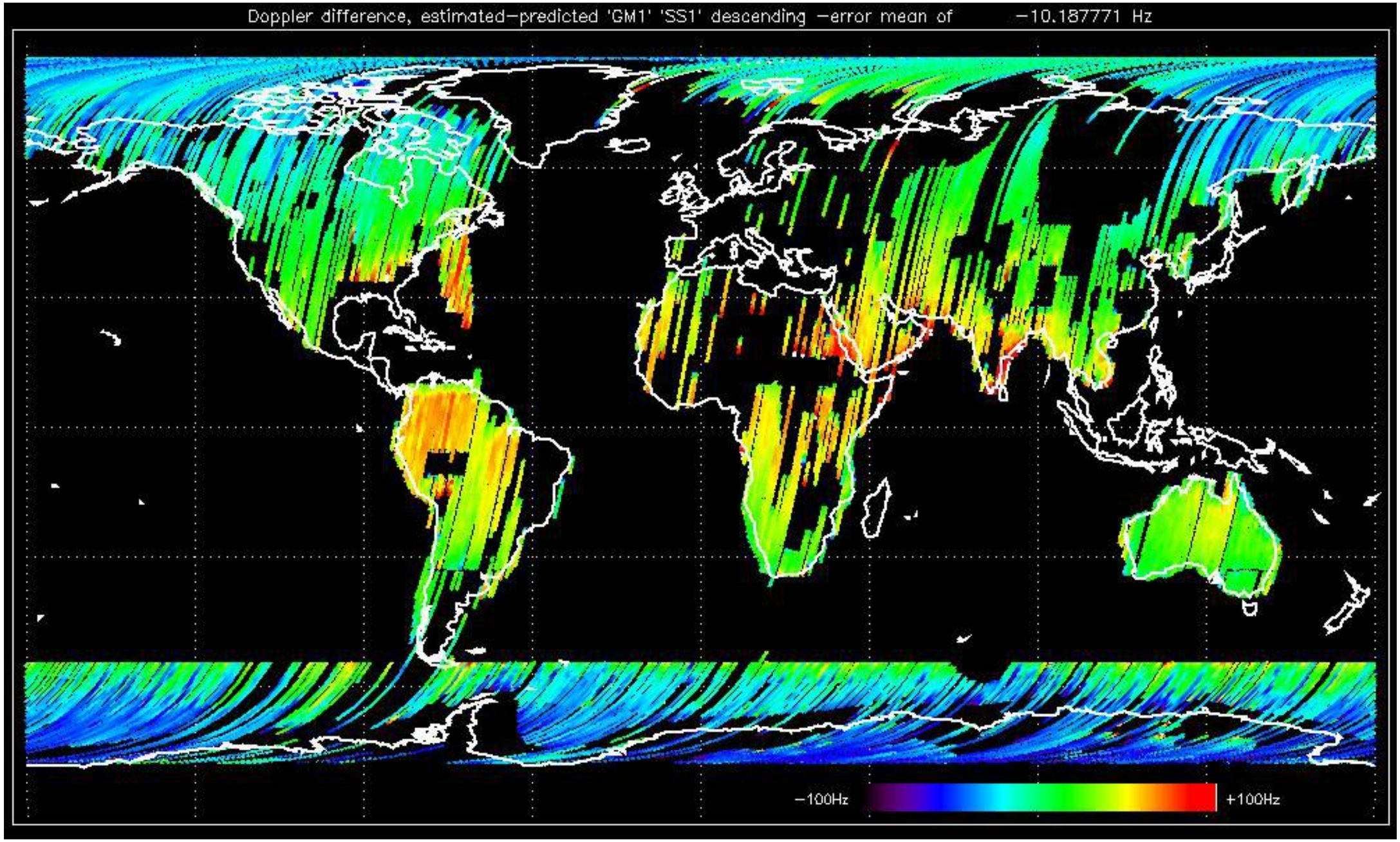

Doppler Bias[Hz]
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
01−Sep
Date

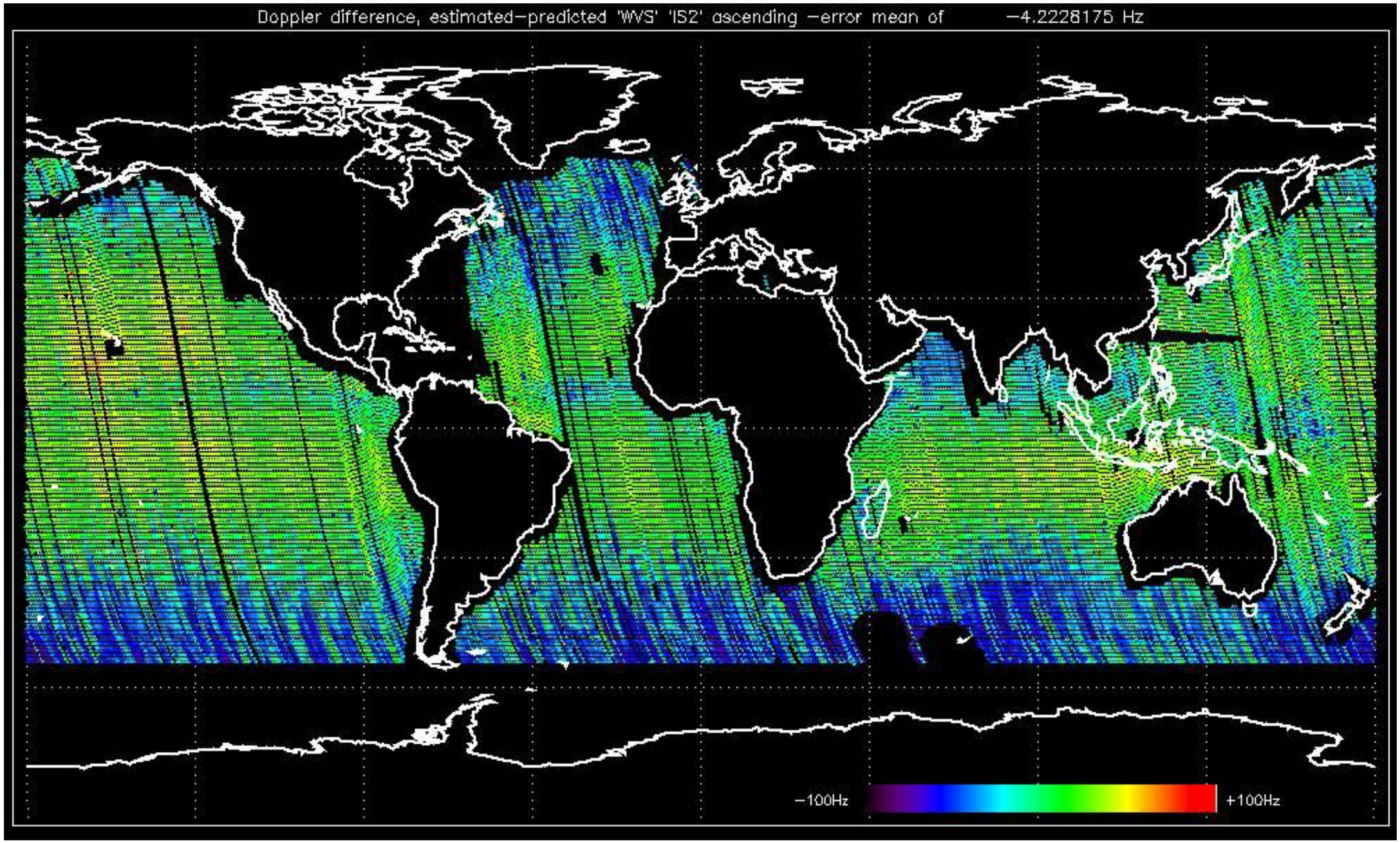

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

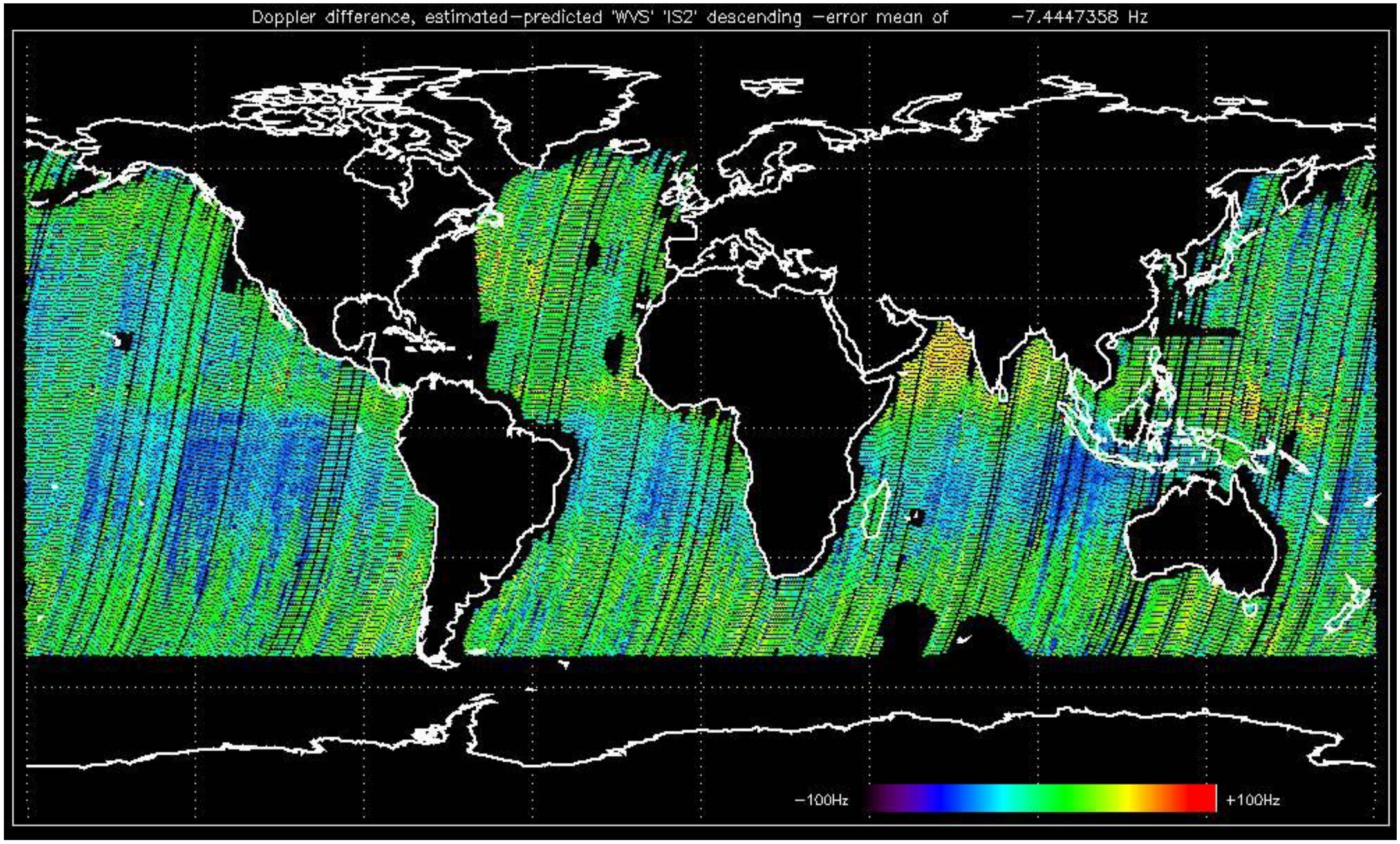

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.823399 Hz
−100Hz
+100Hz

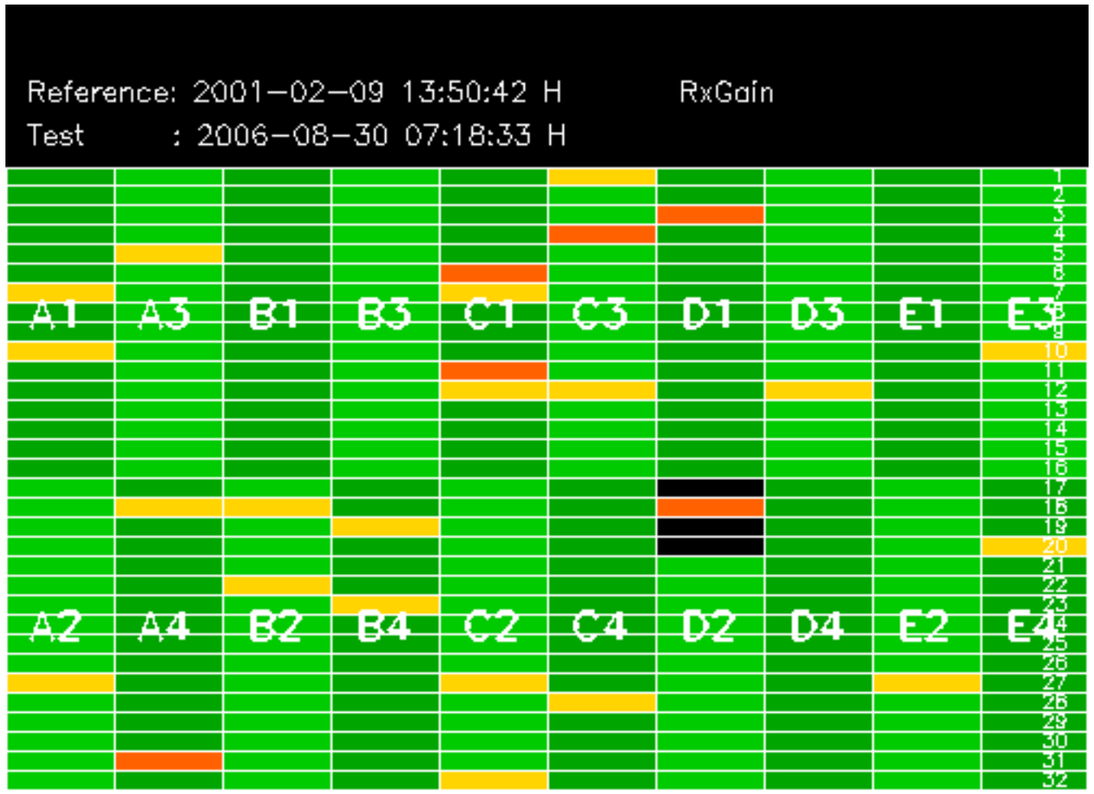

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −10.187771 Hz
−100Hz
+100Hz

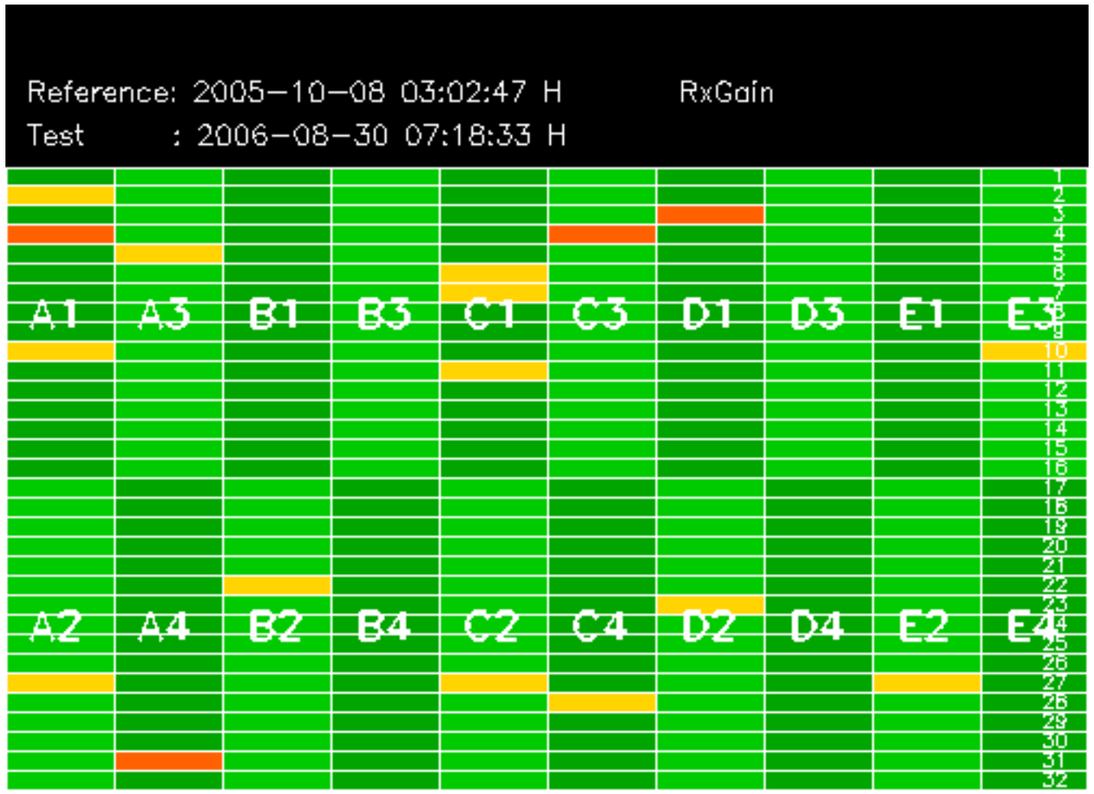

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −4.2228175 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −7.4447358 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-08-30 07:18:33 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 : 2006-08-30 07:18:33 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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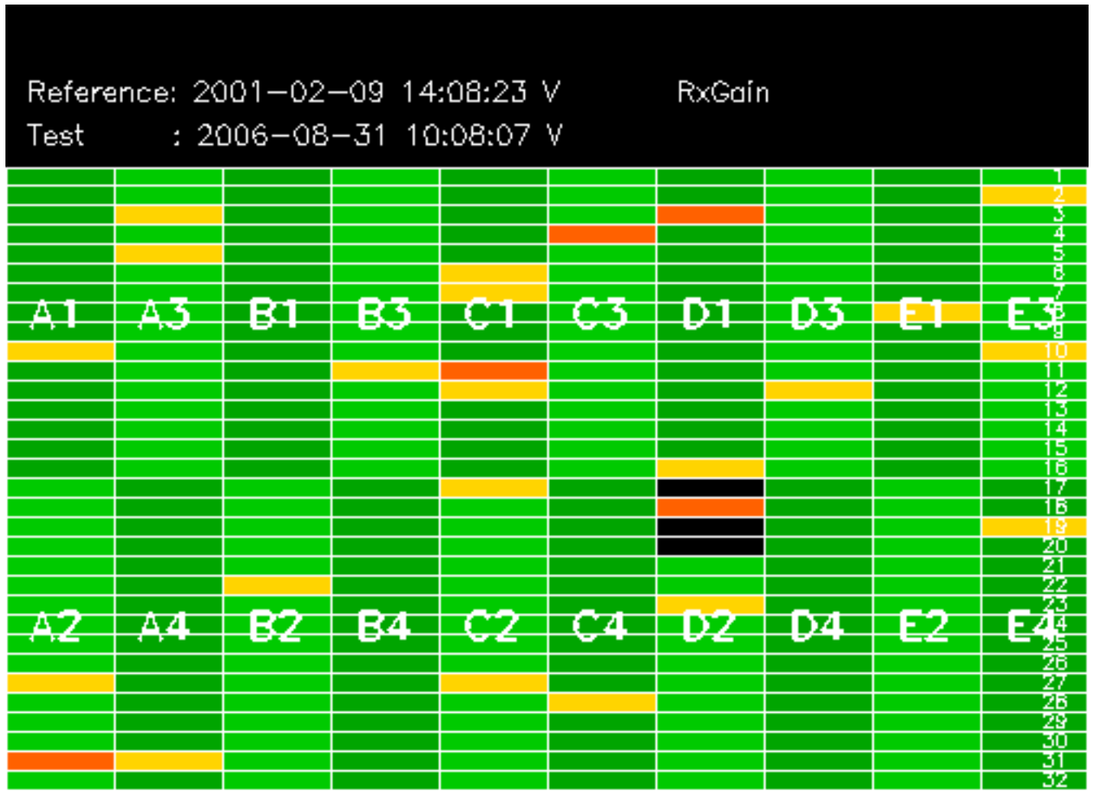
Reference: 2001-02-09 14:08:23 V
Test : 2006-08-31 10:08:07 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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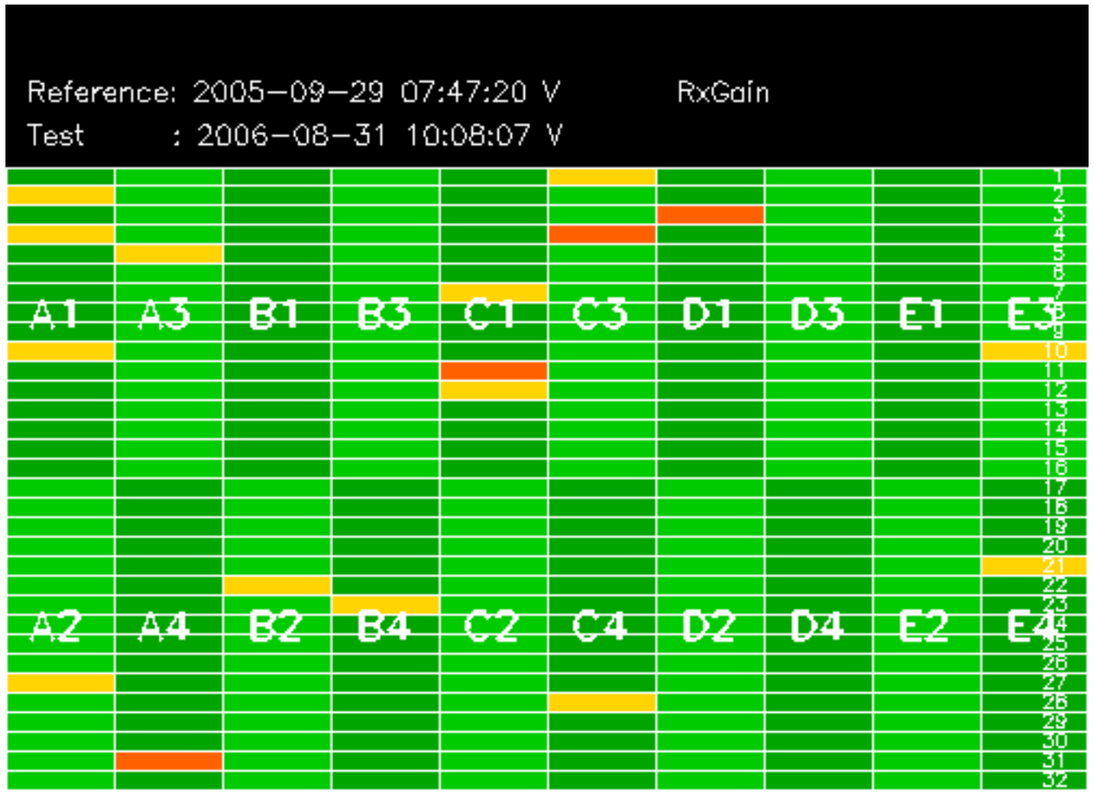
Reference: 2005-09-29 07:47:20 V
Test : 2006-08-31 10:08:07 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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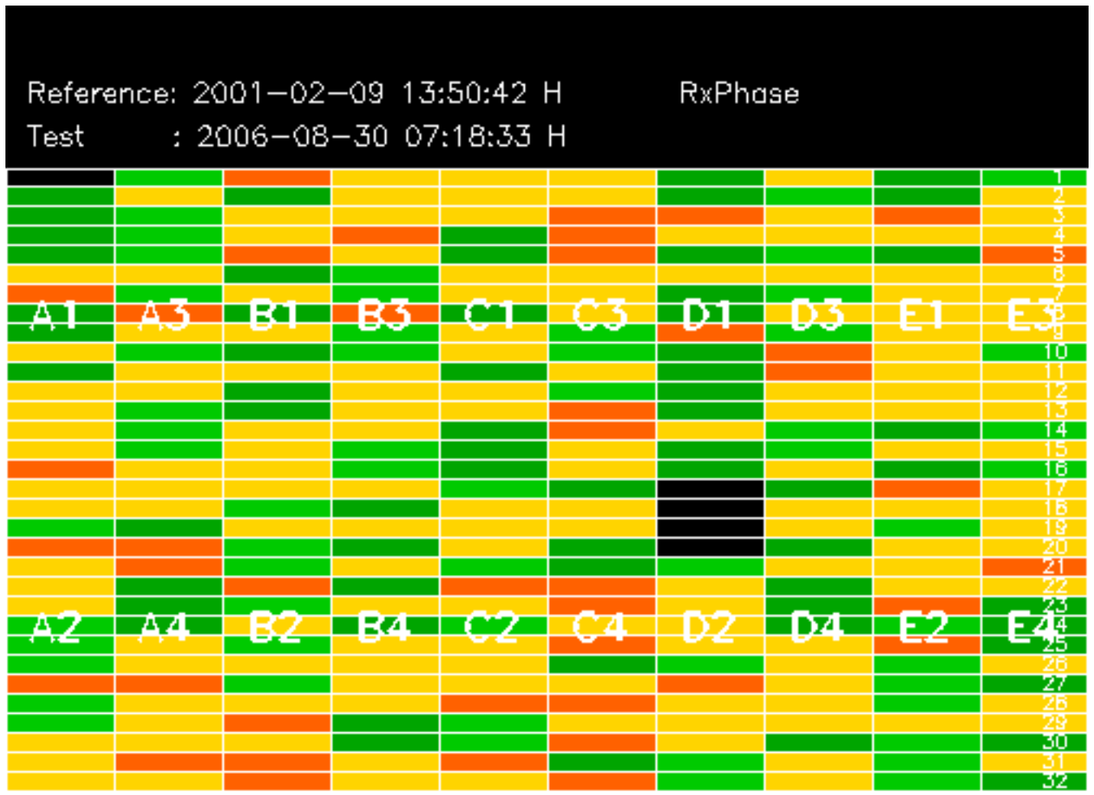
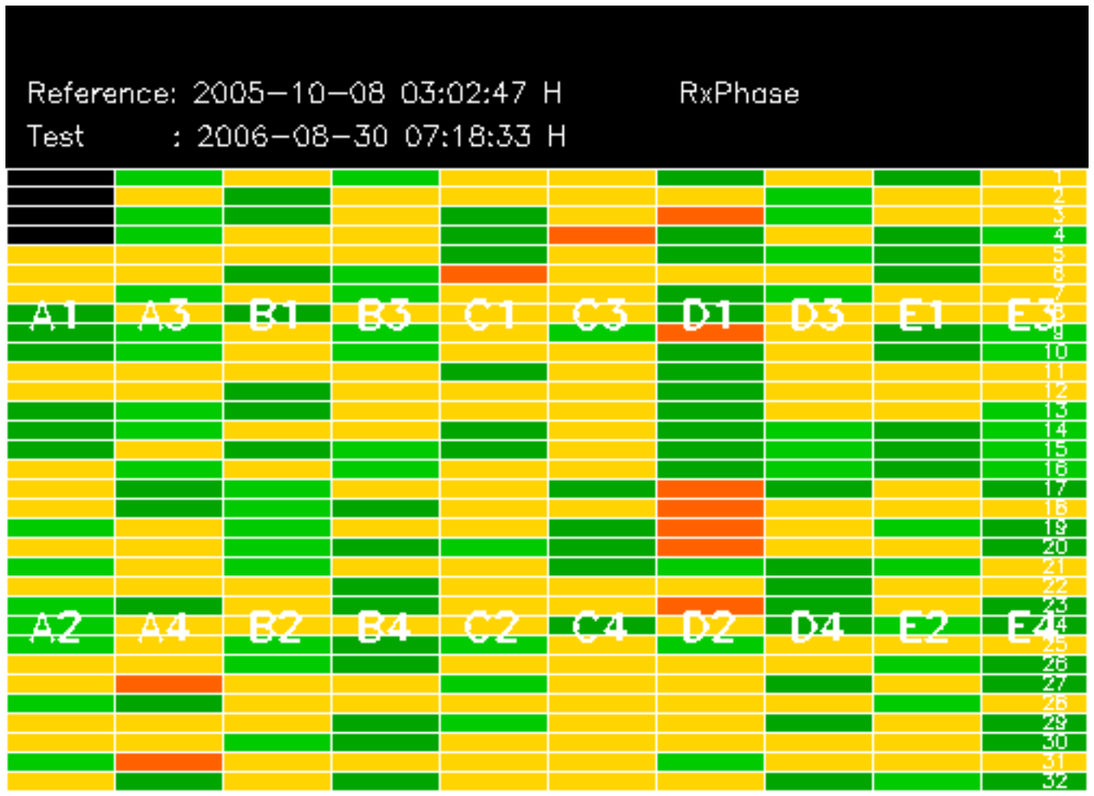
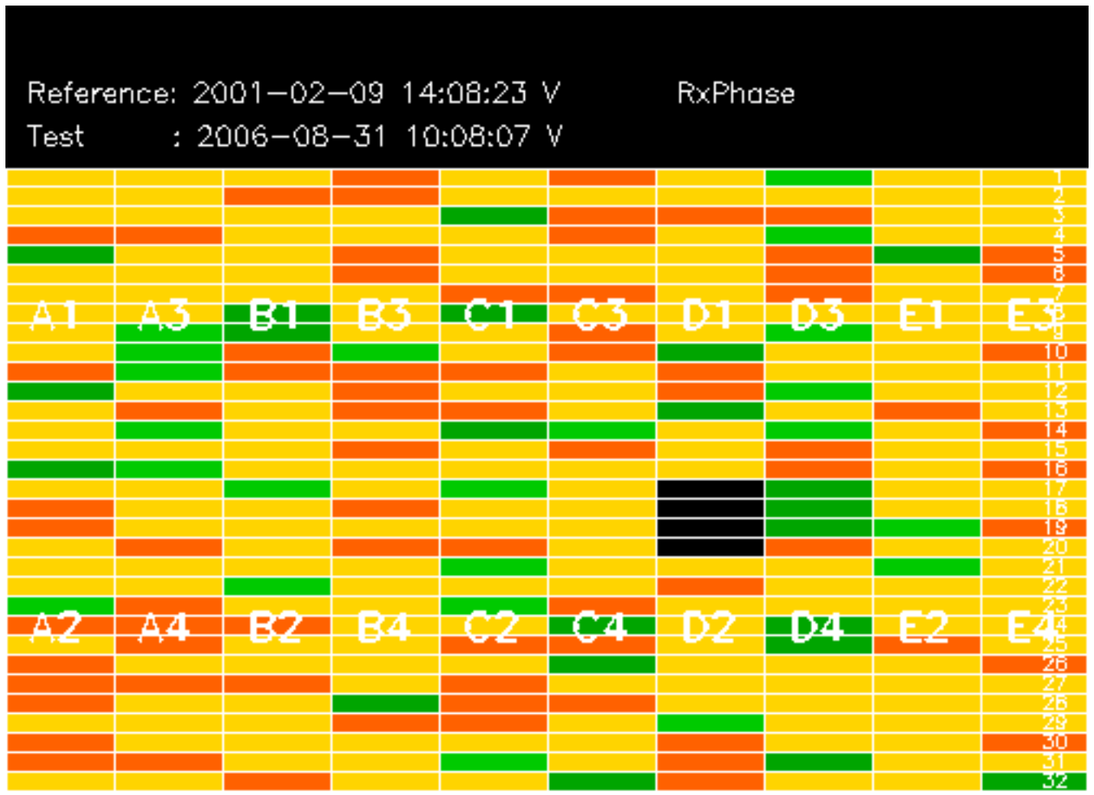
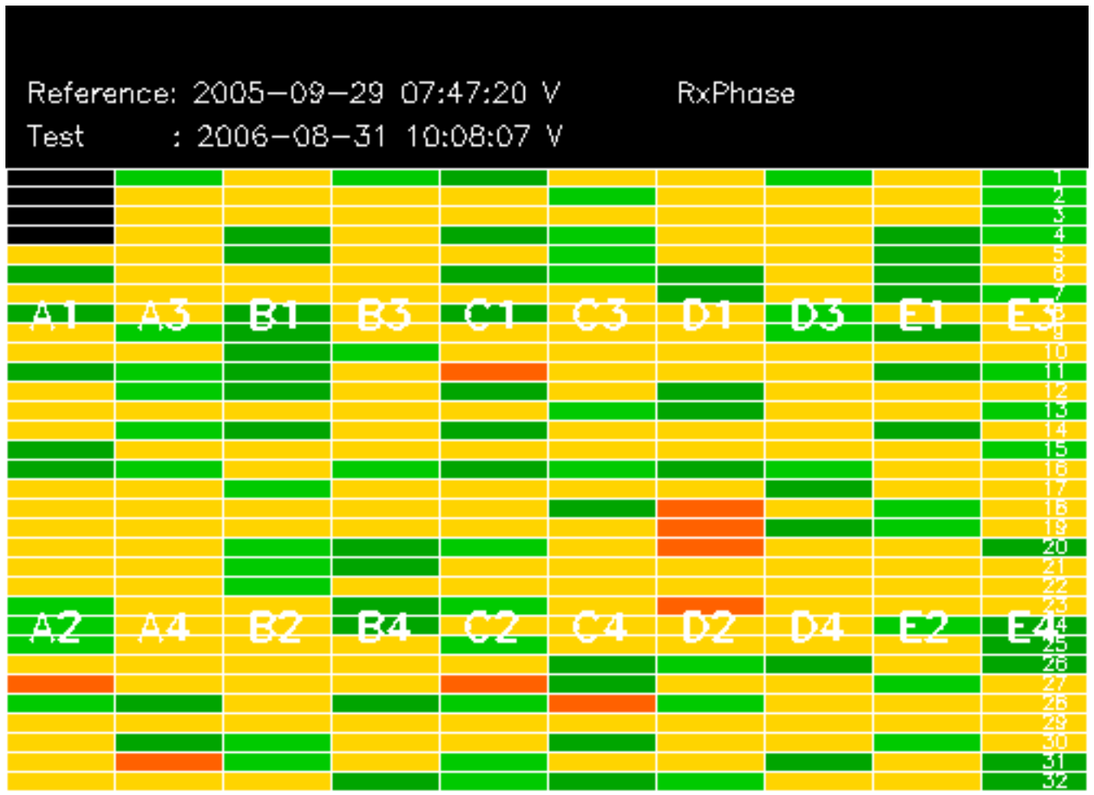
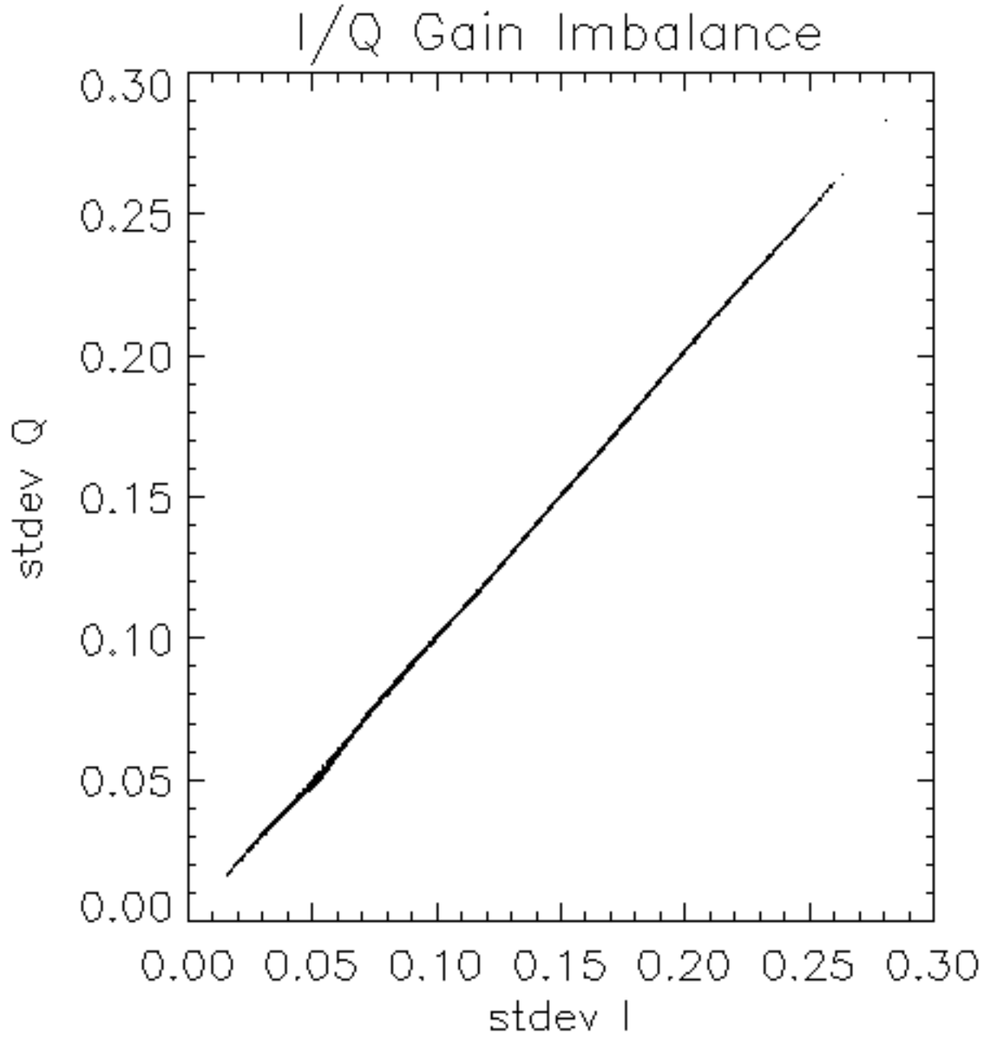
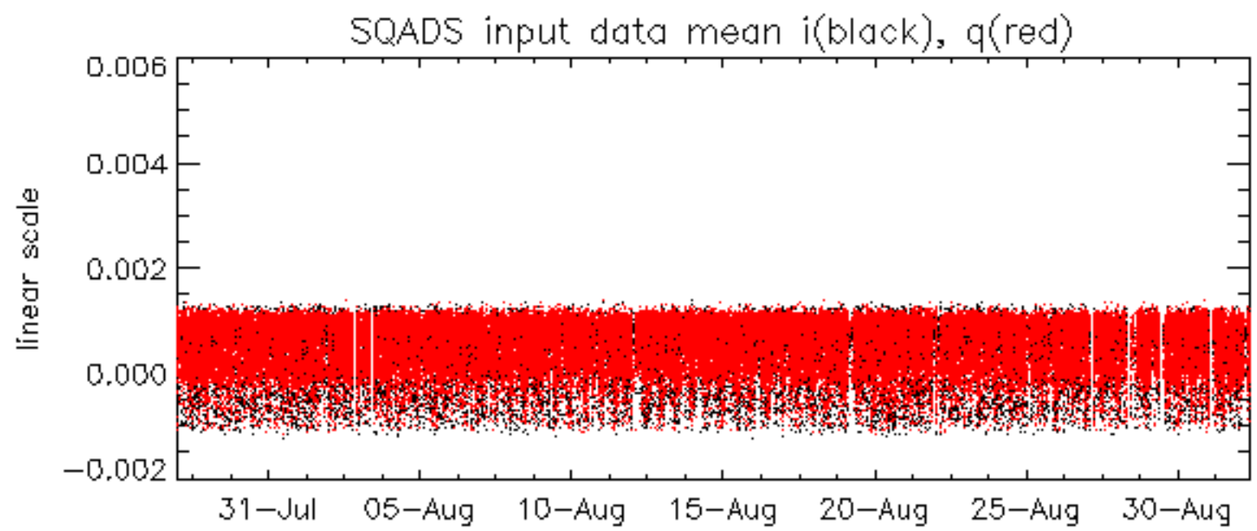

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-08-30 07:18:33 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

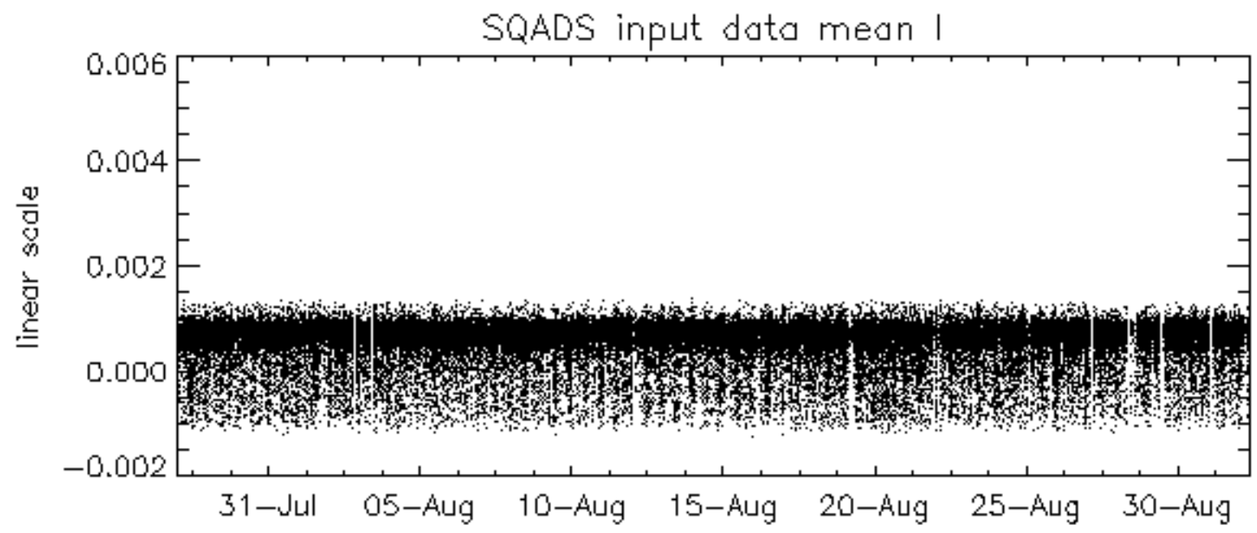

Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-08-30 07:18:33 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

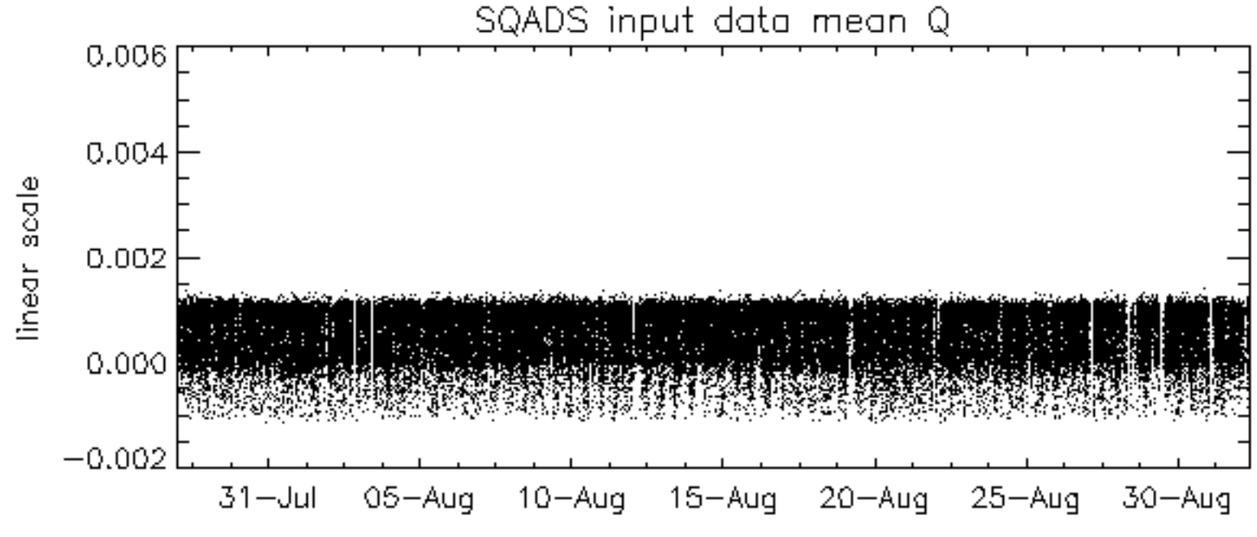

Reference: 2001-02-09 14:08:23 V
Test : 2006-08-31 10:08:07 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

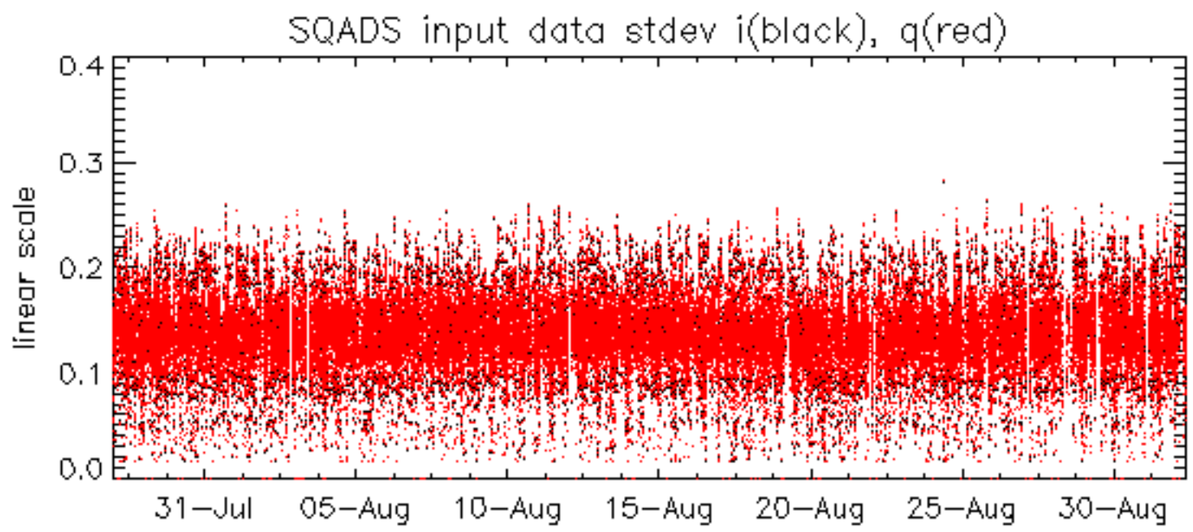

Reference: 2005-09-29 07:47:20 V
Test : 2006-08-31 10:08:07 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

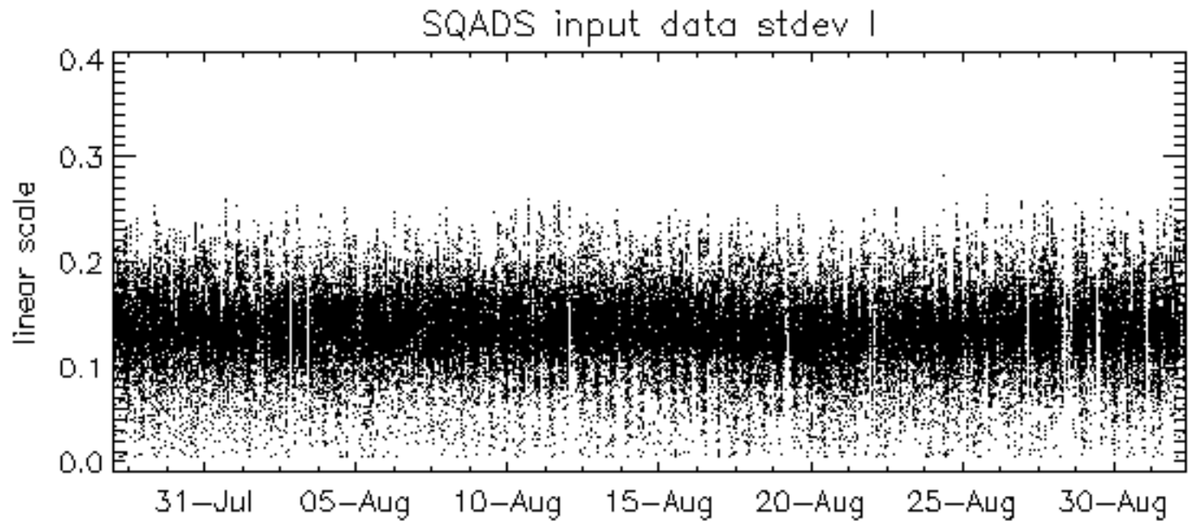

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

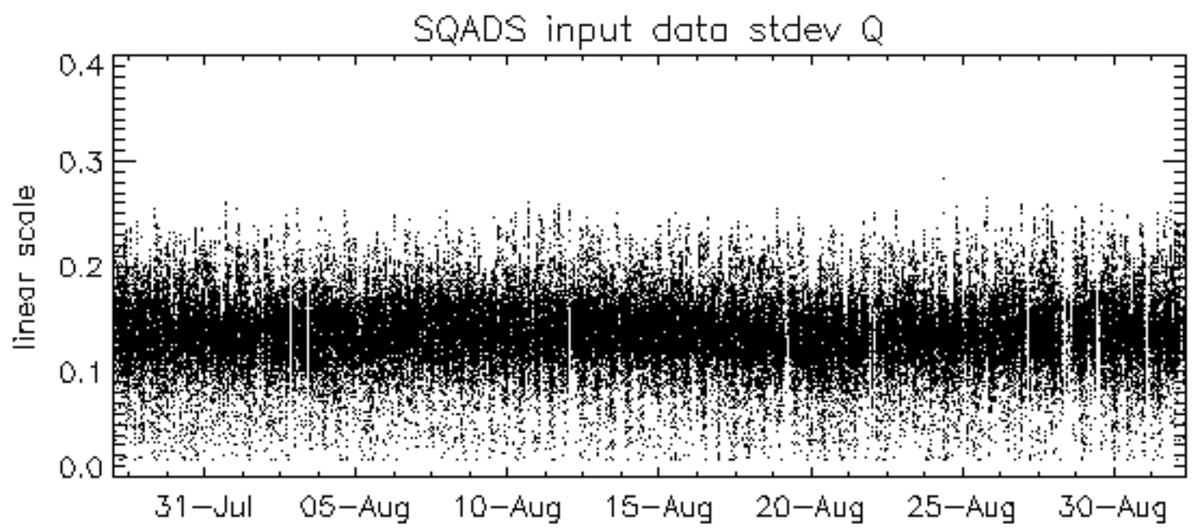

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug

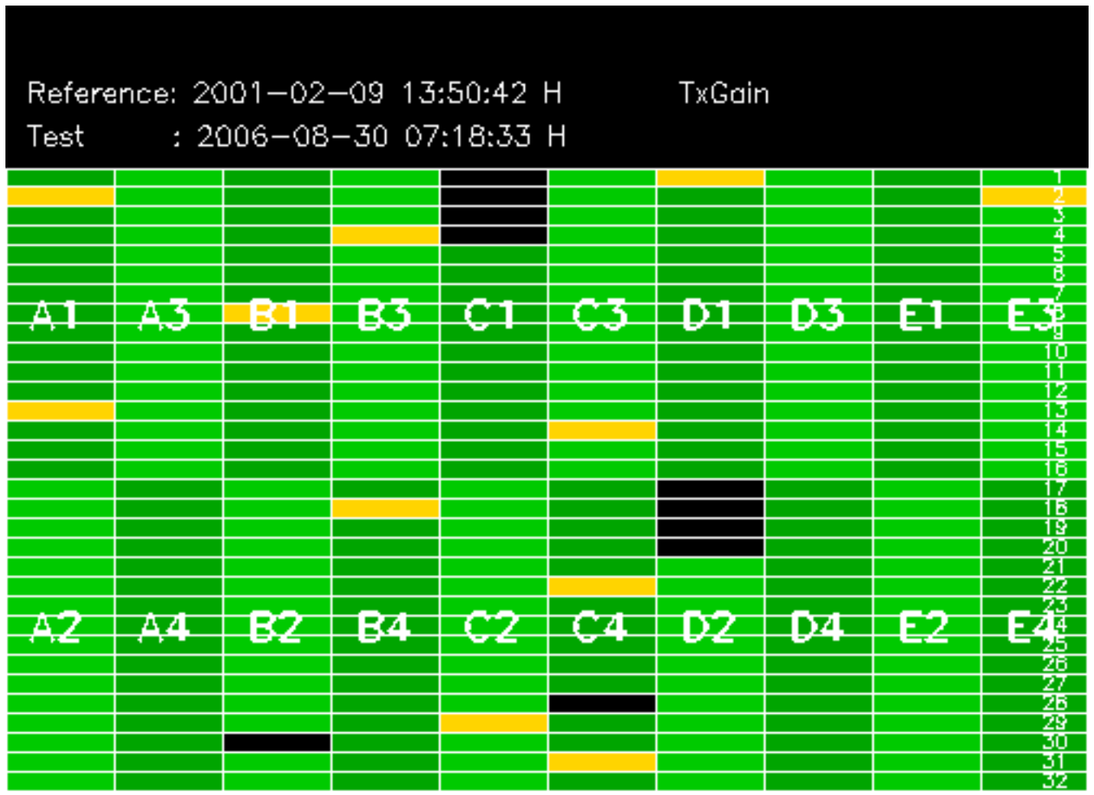

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
30−Aug


Reference: 2001-02-09 13:50:42 H
Test : 2006-08-30 07:18:33 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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B4
C2
C4
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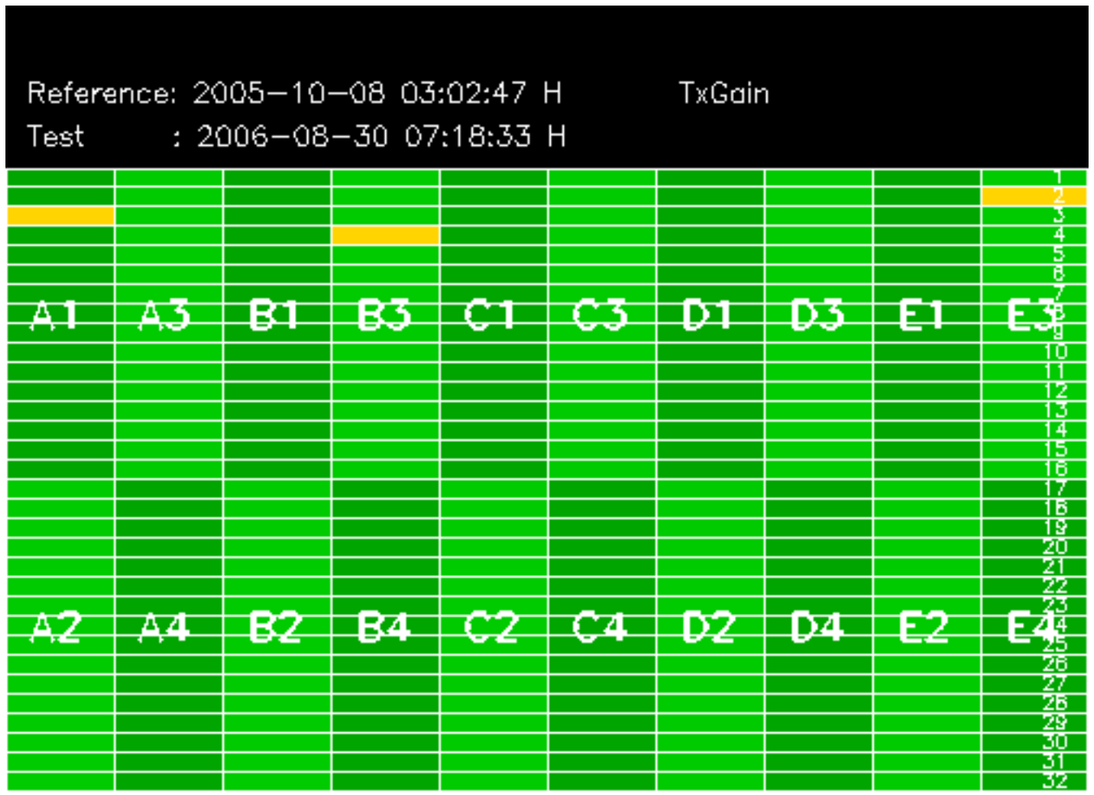
Reference: 2005-10-08 03:02:47 H
Test : 2006-08-30 07:18:33 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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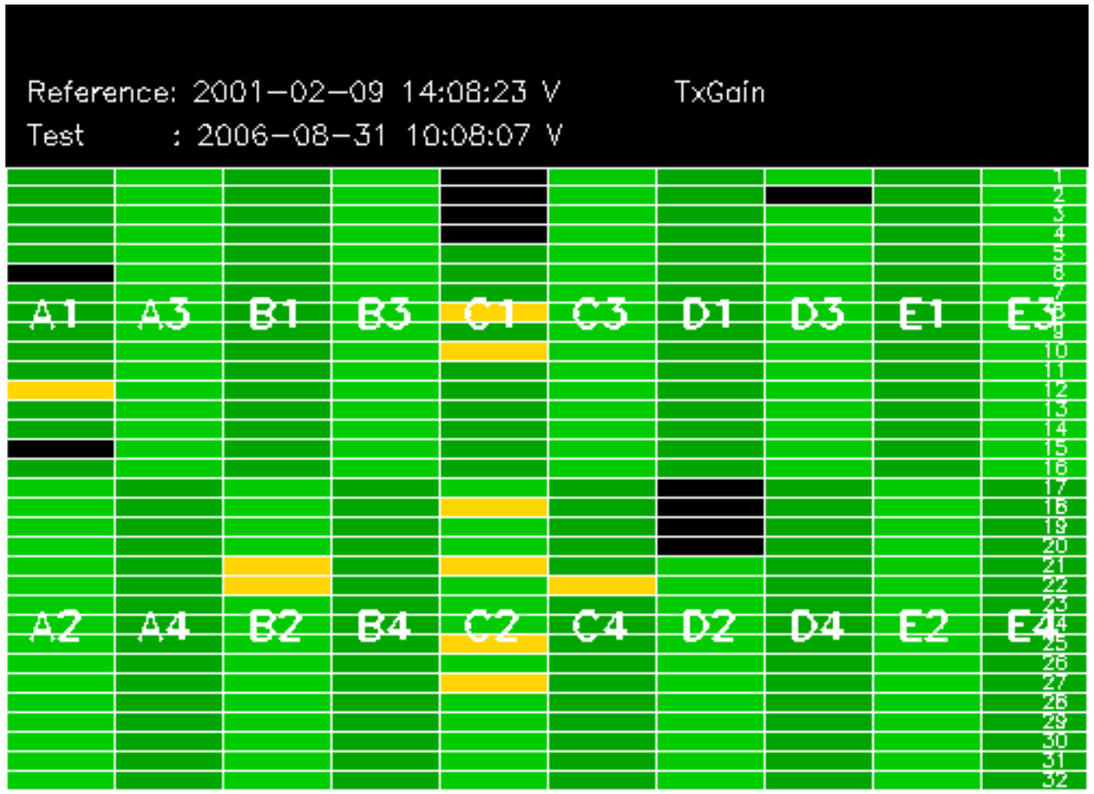
Reference: 2001-02-09 14:08:23 V
Test : 2006-08-31 10:08:07 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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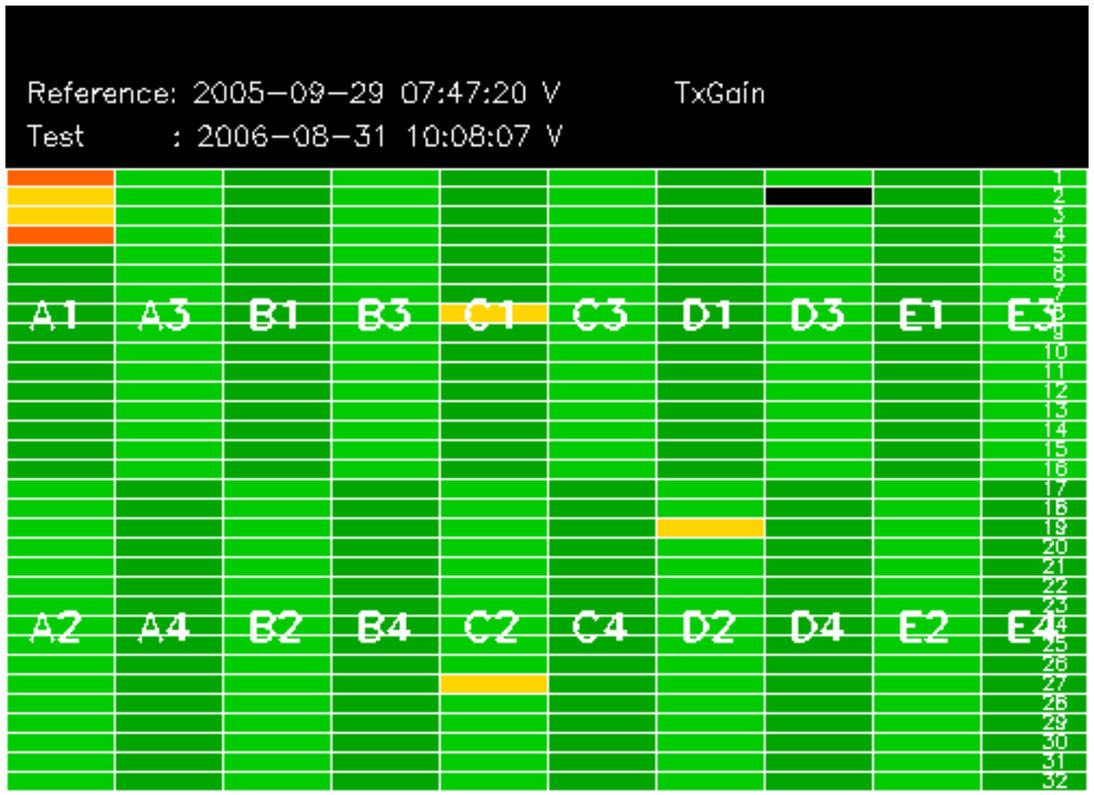
Reference: 2005-09-29 07:47:20 V
Test : 2006-08-31 10:08:07 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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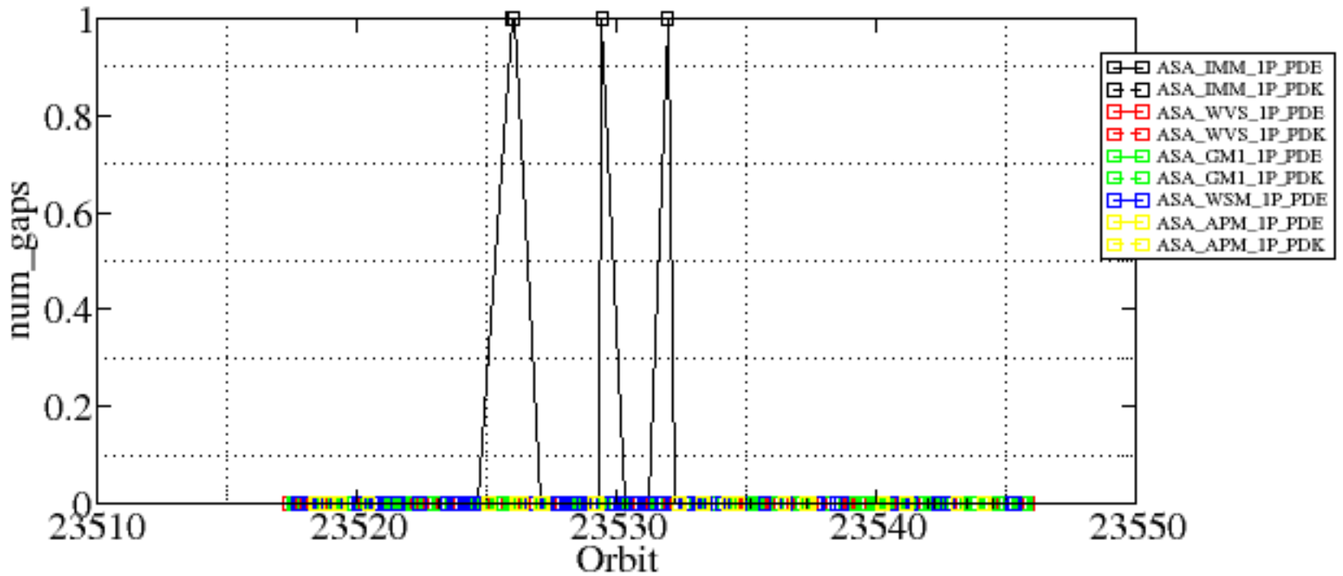
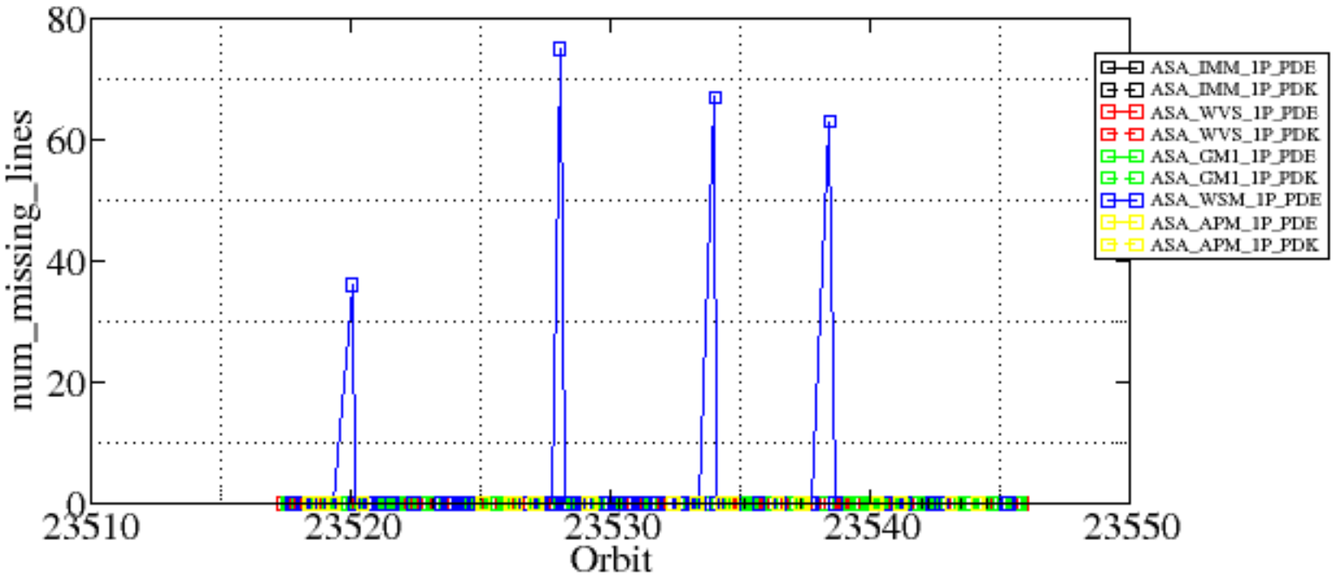
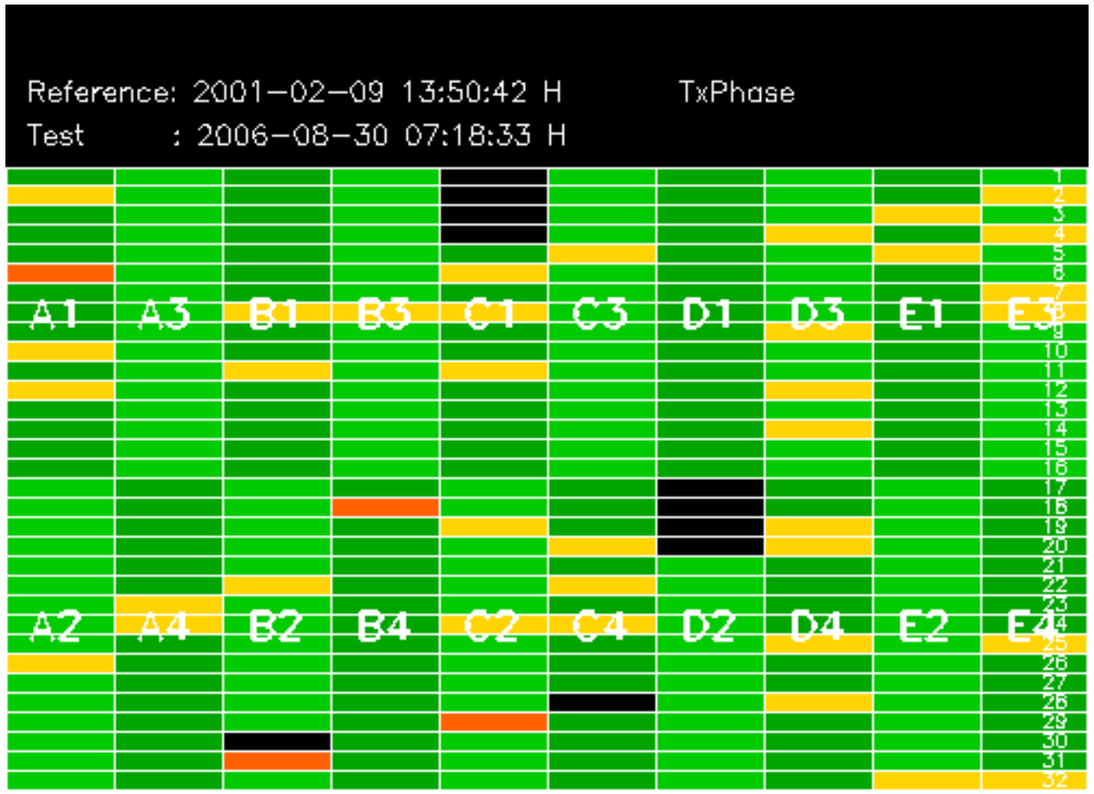
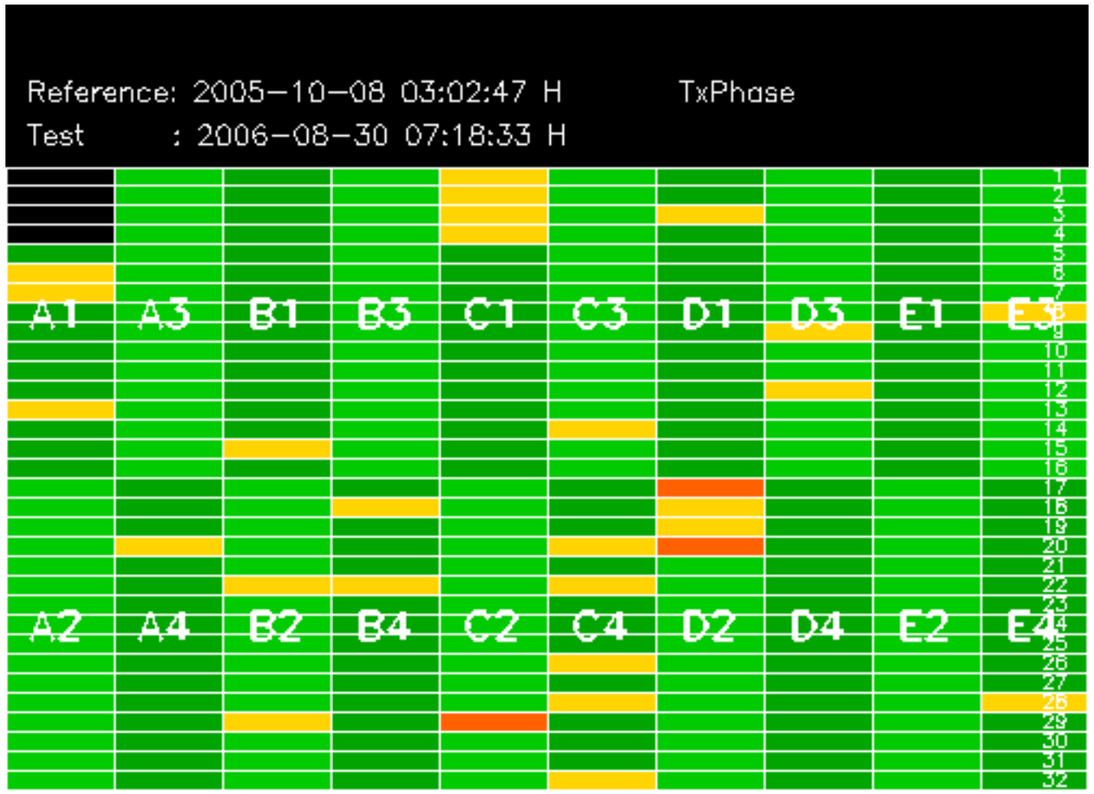
Summary of analysis for the last 3 days 2006083[011]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060830_143313_000000372050_00425_23525_4947.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060830_144000_000000802050_00426_23526_4951.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060830_202033_000000372050_00429_23529_4959.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060831_003434_000001152050_00431_23531_4974.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060830_043525_000001832050_00420_23520_0077.N1 </td> <td>0 </td> <td>36 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060830_180020_000001462050_00428_23528_0191.N1 </td> <td>0 </td> <td>75 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060831_040156_000000862050_00434_23534_0306.N1 </td> <td>0 </td> <td>67 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060831_112606_000001462050_00438_23538_0359.N1 </td> <td>0 </td> <td>63 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
23510
23520
23530
23540
23550
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_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
80
60
40
20
0
23510
23520
23530
23540
23550
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_APM_1P_PDE
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
Test : 2006-08-30 07:18:33 H
TxPhase
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 : 2006-08-30 07:18:33 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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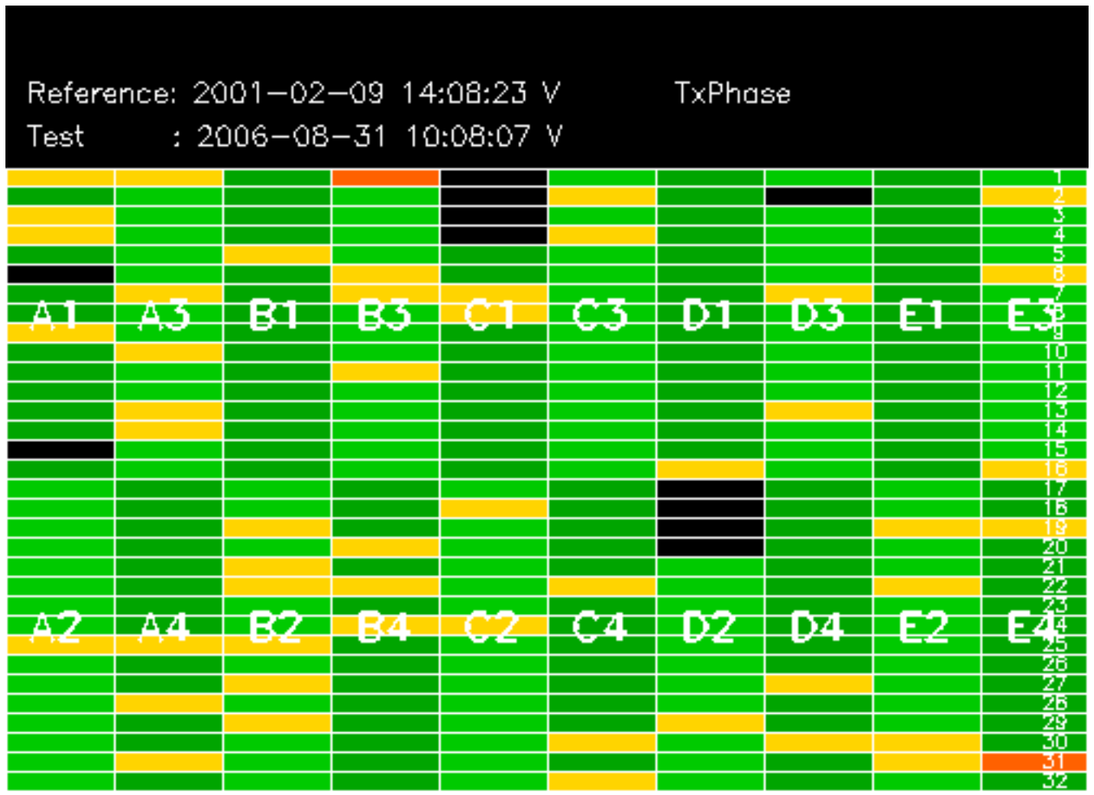
Reference: 2001-02-09 14:08:23 V
Test : 2006-08-31 10:08:07 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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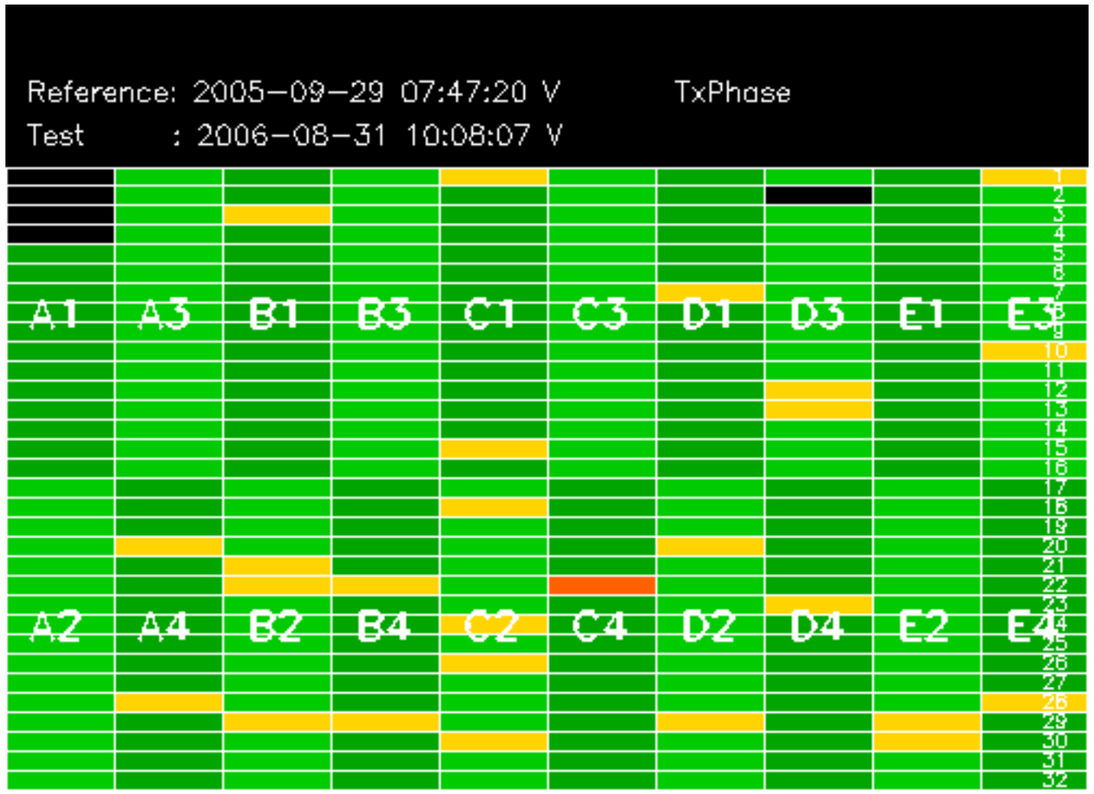
Reference: 2005-09-29 07:47:20 V
Test : 2006-08-31 10:08:07 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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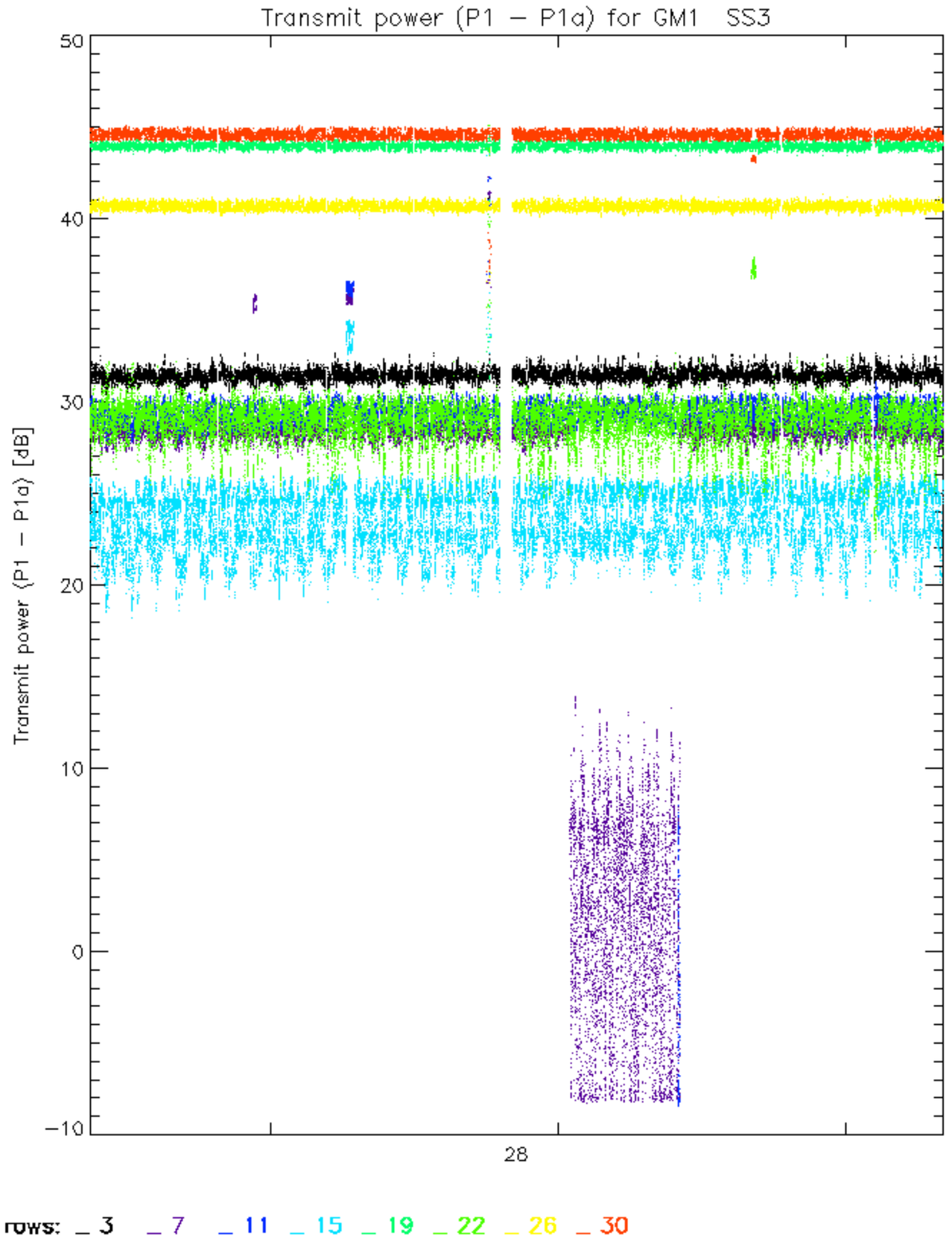
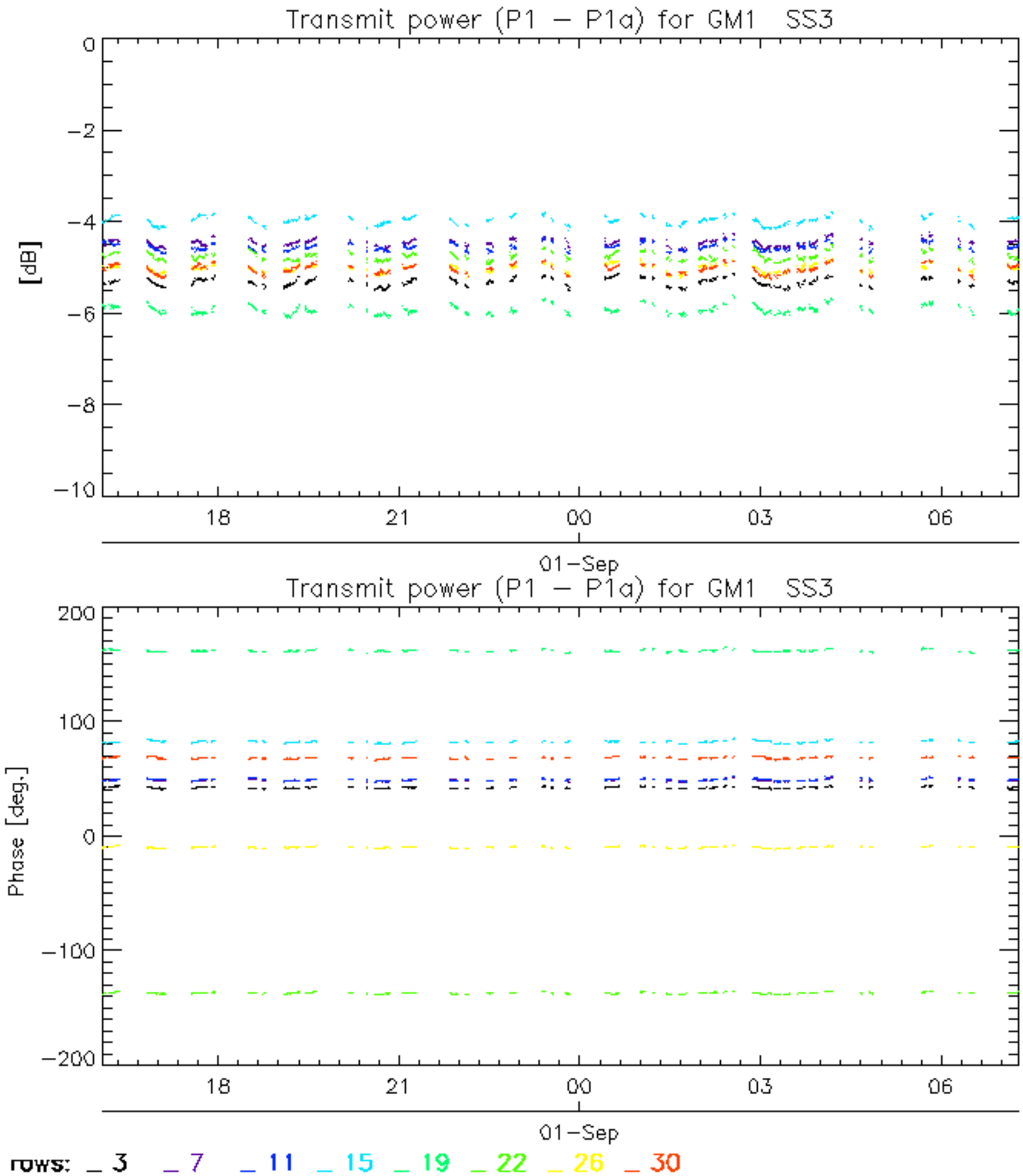
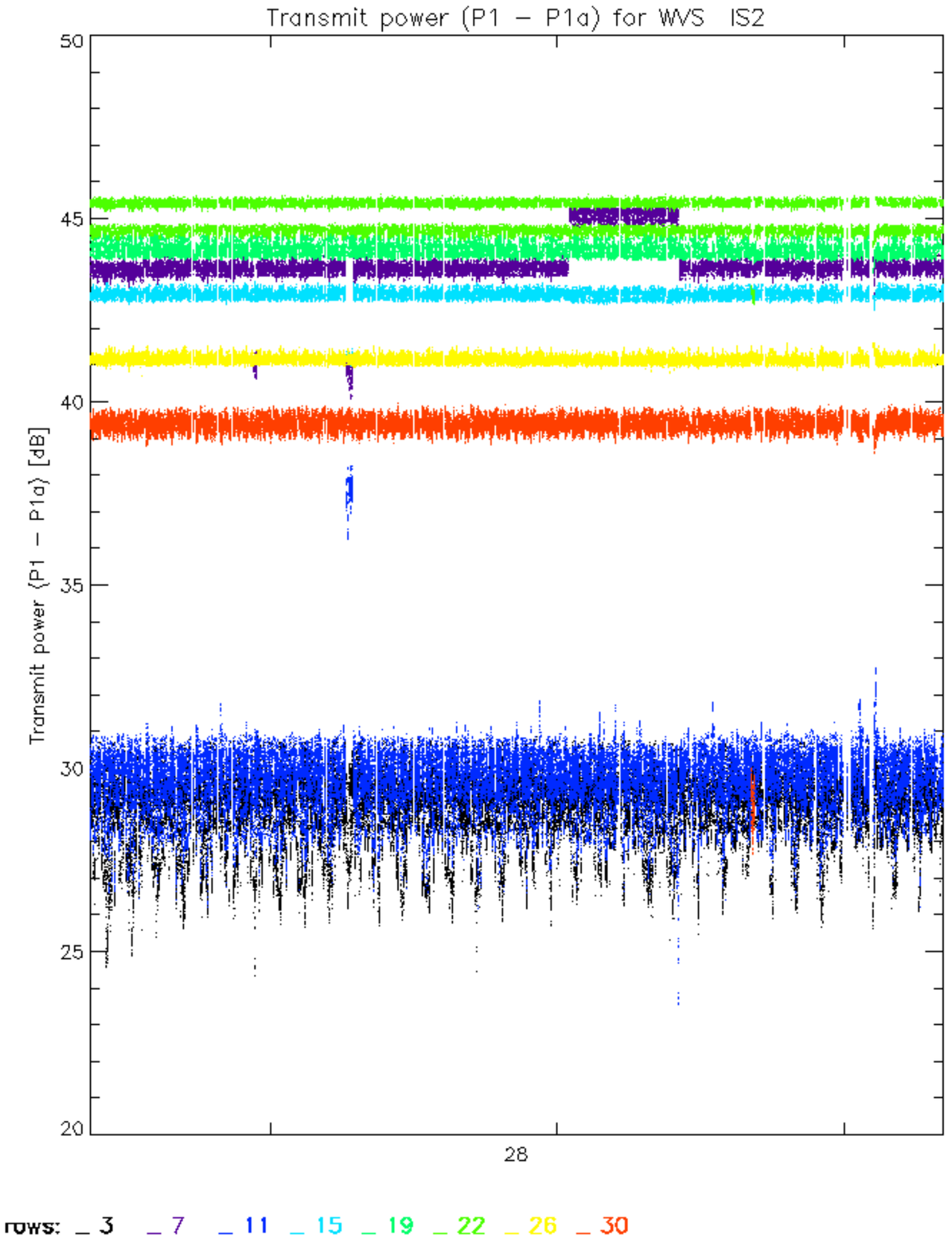
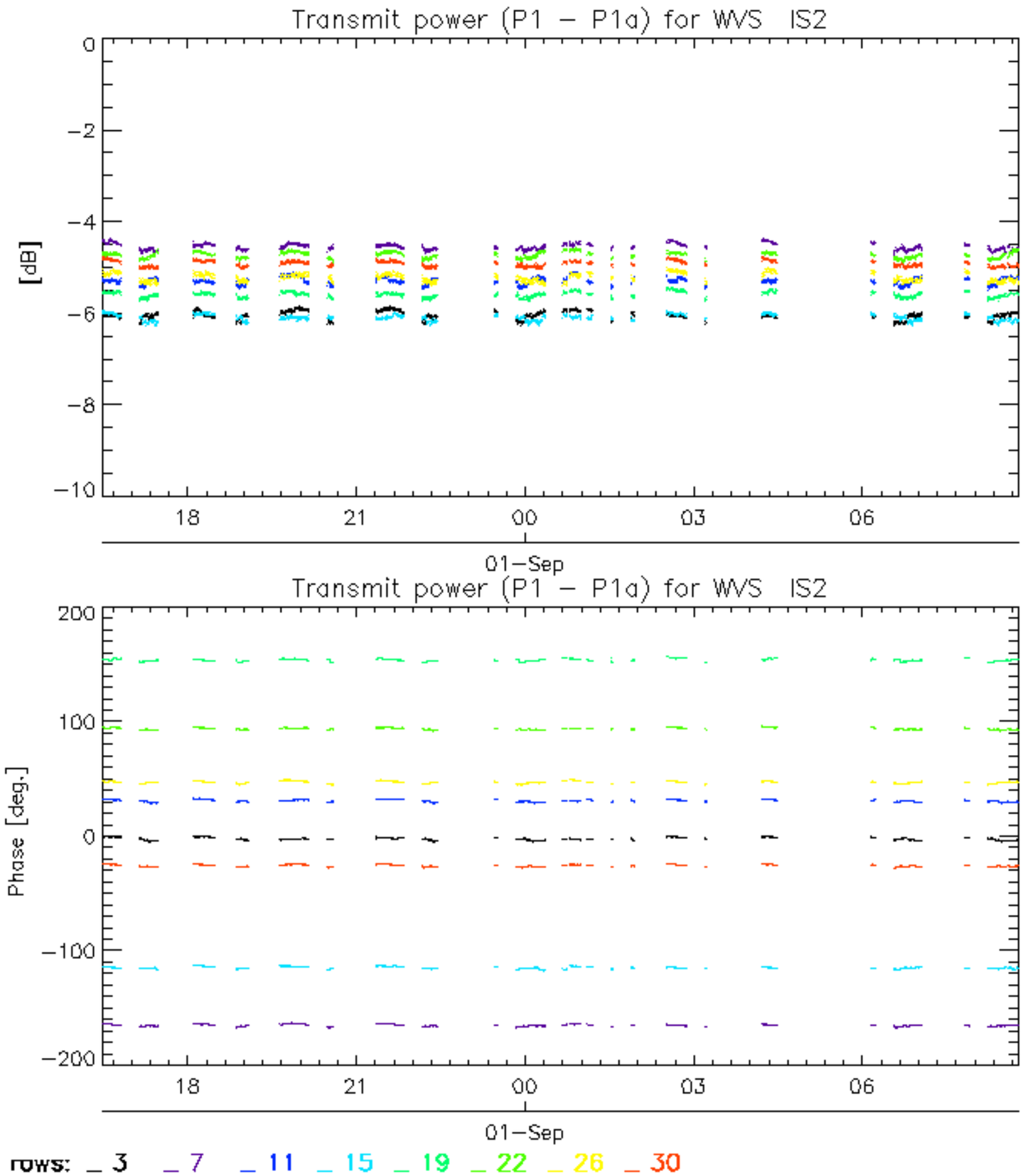
31
32


Transmit power (P1 – P1a) for GM1 SS3
Transmit power ⟨P1 – P1a⟩ [dB]
50
40
30
20
10
0
−10
28
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
01−Sep
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
01−Sep
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
28
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
01–Sep
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
01–Sep
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.