PRELIMINARY REPORT OF 060330

last update on Thu Mar 30 17:01:56 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 2006-03-29 00:00:00 to 2006-03-30 17:01:56

PDHS-K					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**

PDHS-E					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

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	20060329 043724
H	20060326 061216

MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒
☒	☒

MSM in H/H polarisation

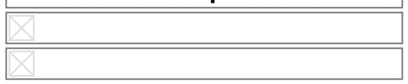
Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

4.1.1 - Evolution for WVS

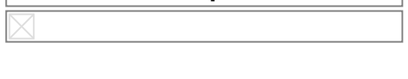
Evolution of cal pulses for WVS


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	-4.000195	0.009075	0.020953
7	P1	-3.014765	0.008415	-0.016068
11	P1	-4.059119	0.017678	-0.017686
15	P1	-6.100336	0.019415	-0.039322
19	P1	-3.305675	0.006414	-0.044507
22	P1	-4.465475	0.014120	-0.020918
26	P1	-4.137861	0.020860	0.068853
30	P1	-5.782860	0.175043	0.207051
3	P1	-16.958675	0.260893	0.103608
7	P1	-16.756981	0.103449	-0.092238
11	P1	-16.469738	0.305485	0.001066
15	P1	-13.054528	0.093556	0.011681
19	P1	-13.967055	0.049699	-0.088761
22	P1	-15.601021	0.461208	-0.075405
26	P1	-15.773876	0.295605	0.135021
30	P1	-16.518822	0.316749	-0.145839

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.370535	0.086840	0.078707
7	P2	-22.334515	0.095815	0.132773
11	P2	-16.210691	0.100652	0.043252
15	P2	-7.166444	0.096867	-0.004504
19	P2	-9.135978	0.089092	-0.020890
22	P2	-17.961651	0.087292	-0.062312
26	P2	-16.227228	0.093090	-0.065841
30	P2	-19.651979	0.083890	0.008970

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.194850	0.005472	0.002913
7	P3	-8.194850	0.005472	0.002913
11	P3	-8.194850	0.005472	0.002913
15	P3	-8.194850	0.005472	0.002913
19	P3	-8.194850	0.005472	0.002913
22	P3	-8.194850	0.005472	0.002913

26	P3	-8.194850	0.005472	0.002913
30	P3	-8.194851	0.005472	0.002917

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	-3.760327	0.010035	-0.017489
7	P1	-2.730532	0.008403	0.018642
11	P1	-2.929308	0.018337	-0.022146
15	P1	-3.566951	0.020984	-0.016961
19	P1	-3.382026	0.009499	0.022997
22	P1	-5.184113	0.023200	-0.007809
26	P1	-5.785835	0.036689	0.060425
30	P1	-5.185538	0.079946	0.136620
3	P1	-11.587644	0.039860	-0.078467
7	P1	-9.973220	0.048335	-0.045824
11	P1	-10.278926	0.058527	-0.036792
15	P1	-10.820183	0.108473	-0.043704
19	P1	-15.407960	0.074574	0.091581
22	P1	-20.299738	1.049716	-0.153304
26	P1	-16.265957	0.387601	0.166566
30	P1	-18.284061	0.578046	0.096305

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.059544	0.040358	0.145095
7	P2	-22.541506	0.086504	0.208348

11	P2	-11.219271	0.031415	0.076713
15	P2	-4.830347	0.029717	0.022144
19	P2	-6.841807	0.028645	0.037634
22	P2	-8.145849	0.027405	0.040105
26	P2	-23.965437	0.034951	-0.041513
30	P2	-22.073677	0.026319	0.032614

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.021109	0.002408	0.008787
7	P3	-8.020979	0.002401	0.009163
11	P3	-8.021036	0.002418	0.008972
15	P3	-8.021136	0.002408	0.009255
19	P3	-8.021023	0.002409	0.009095
22	P3	-8.021178	0.002398	0.008933
26	P3	-8.021126	0.002402	0.008954
30	P3	-8.020997	0.002411	0.008759

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

☒

4.3.2 - Evolution for GM1

☒

5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000569346
	stdev	1.68035e-07
MEAN Q	mean	0.000524434

stdev	2.16508e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.139544
	stdev	0.00118010
STDEV Q	mean	0.139922
	stdev	0.00119937

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006032[890]
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_1PNPDE20060320_141119_000001602046_00096_21192_1254.N1	1	0
ASA_IMM_1PNPDE20060328_003704_000001362046_00202_21298_1625.N1	1	0
ASA_WSM_1PNPDK20060320_081910_000000862046_00093_21189_0874.N1	0	41
ASA_APM_1PNPDE20060328_141116_000000822046_00211_21307_0671.N1	0	21

7 - Doppler Analysis

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

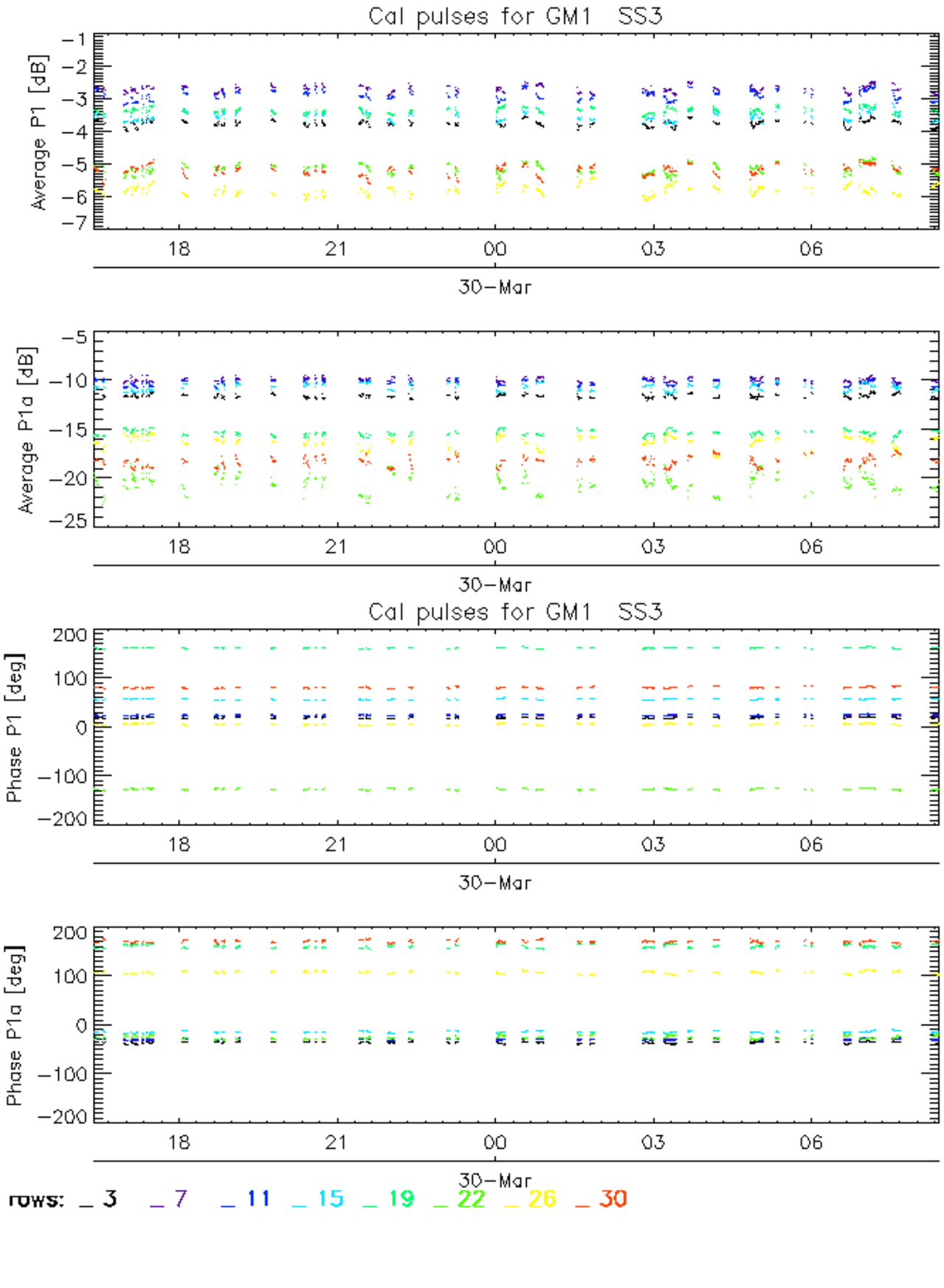
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

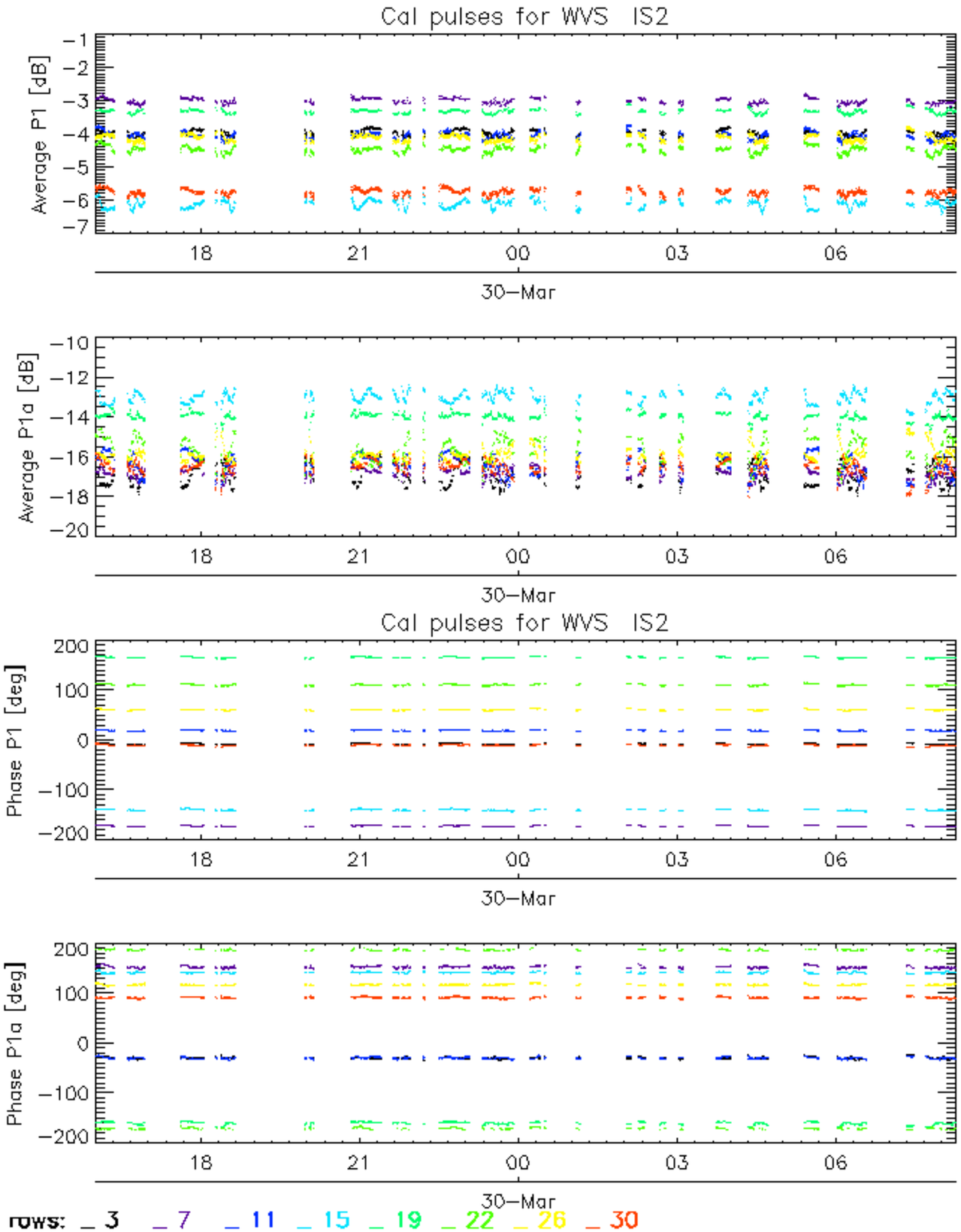
7.5 - Absolute Doppler for GM1

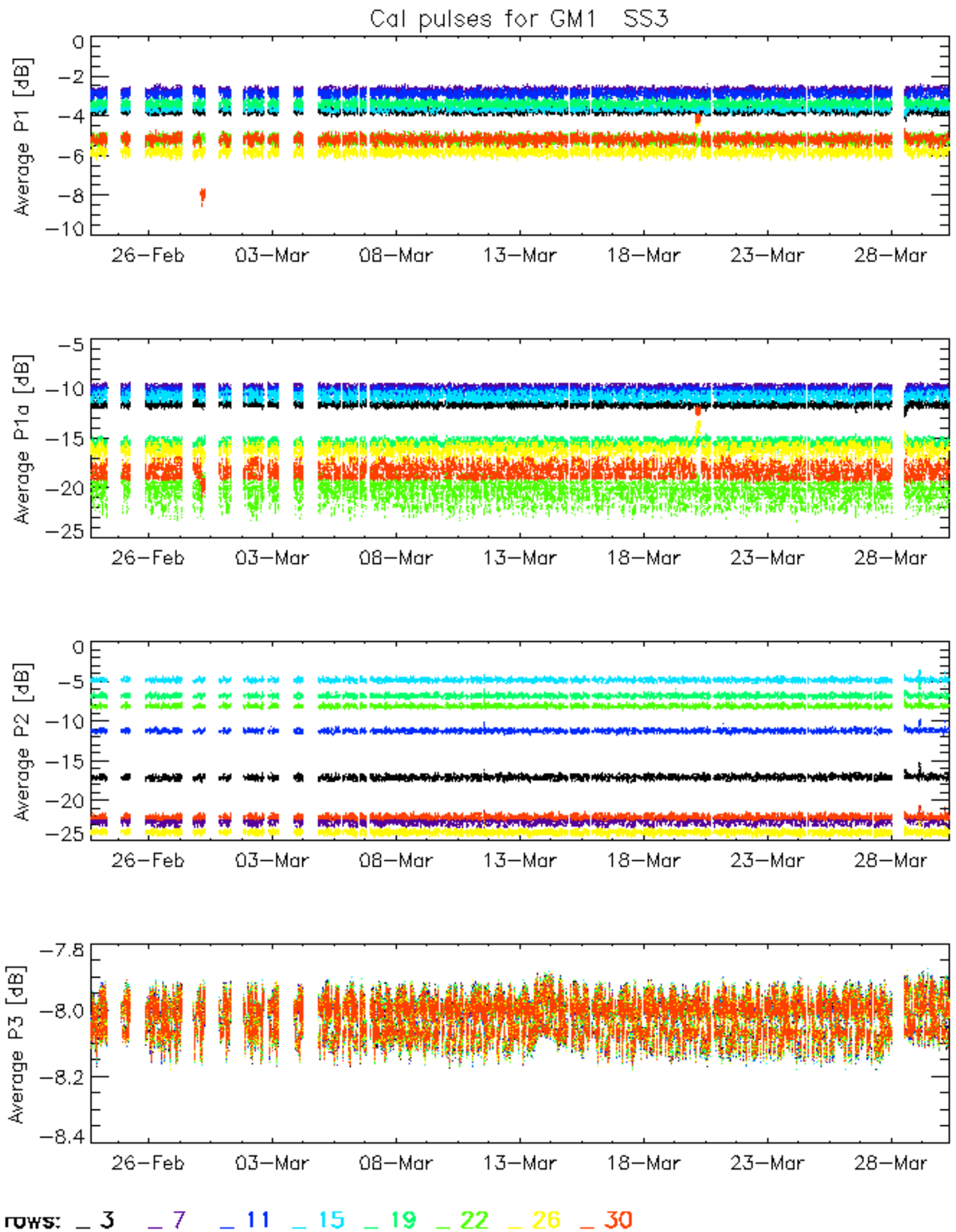
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

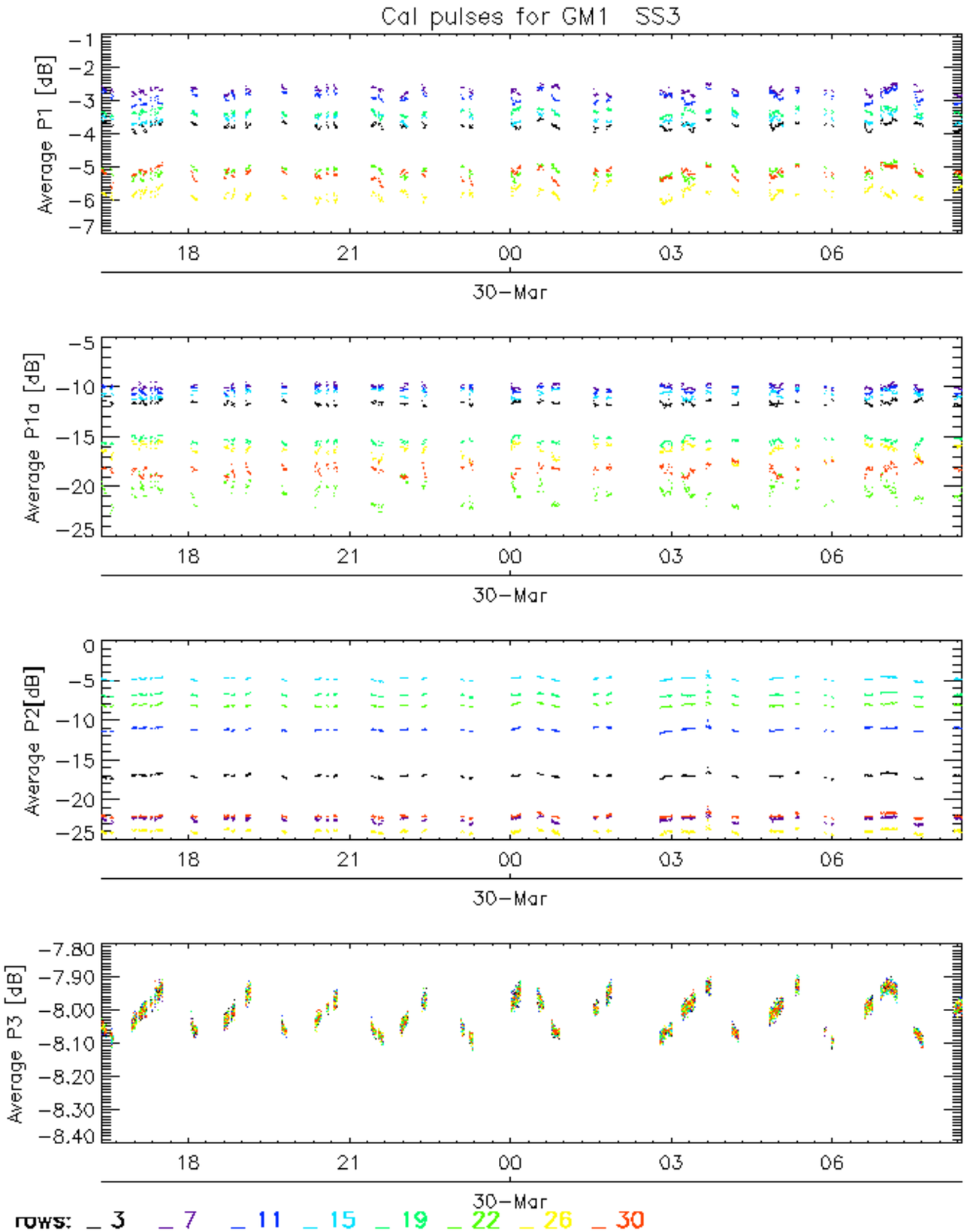
7.6 - Doppler evolution versus ANX for GM1

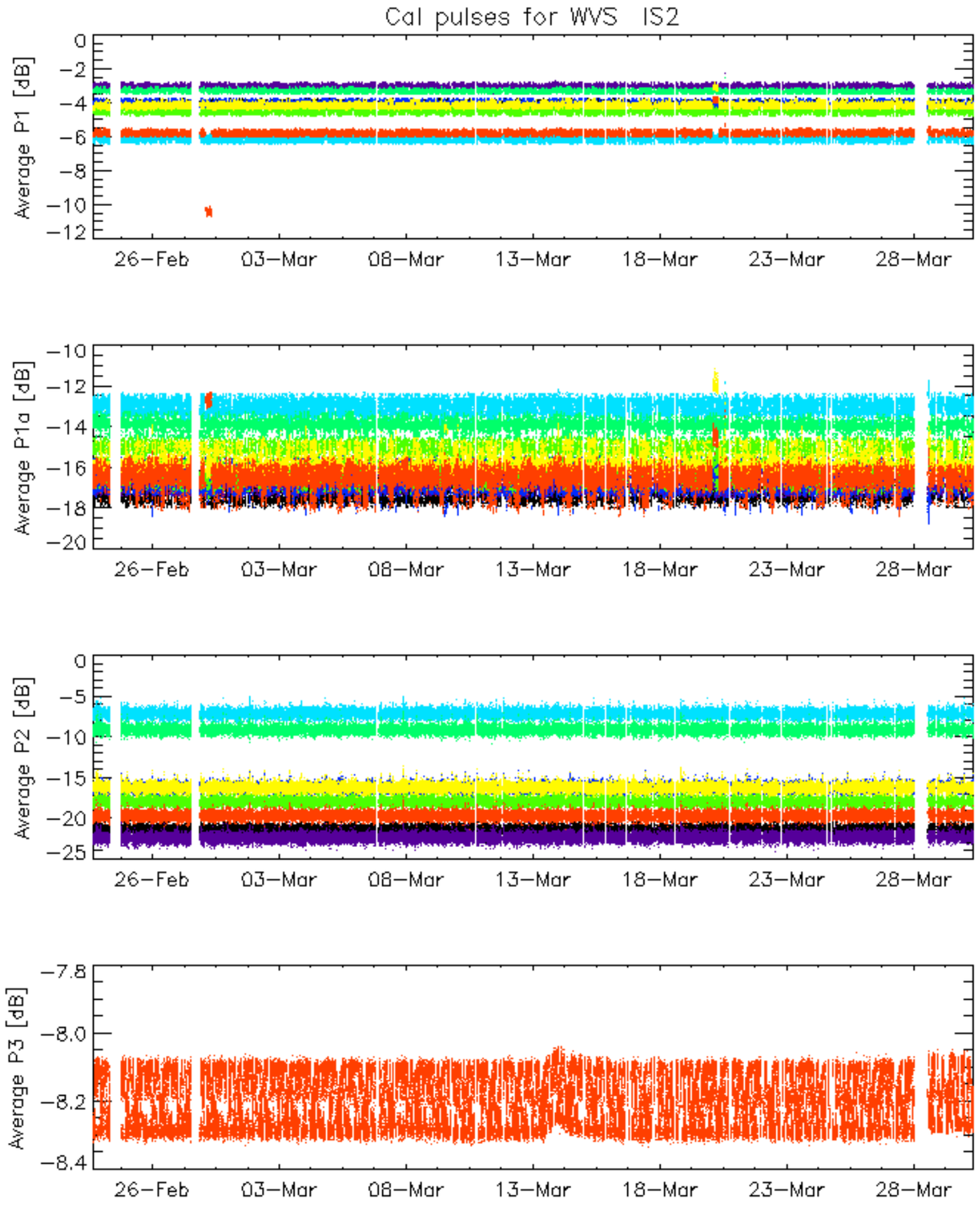
Evolution Doppler error versus ANX
☒

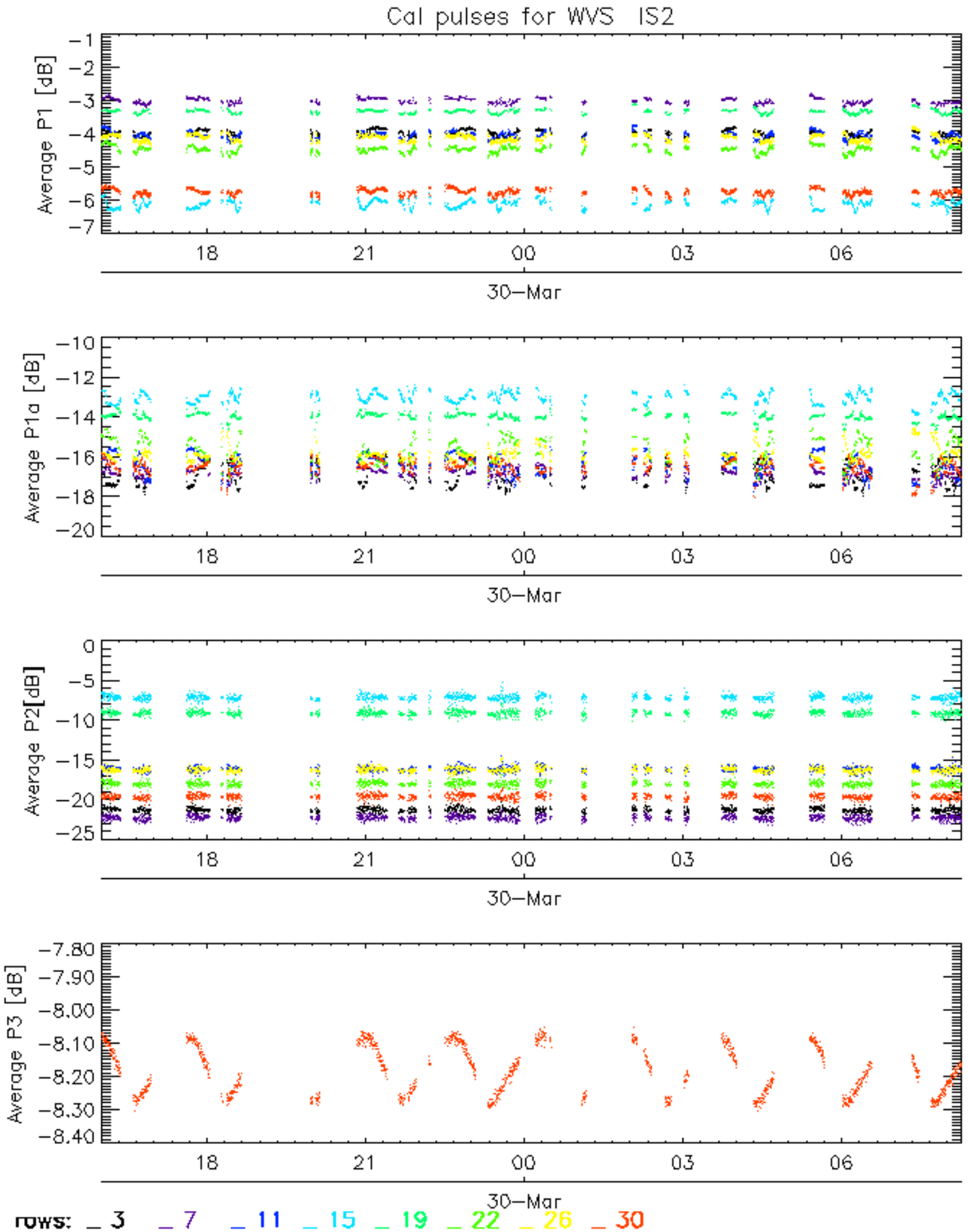

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
30−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
30−Mar
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
30−Mar
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
30−Mar
rows: _ 3 _ 7 _ 11 _ 15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


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


Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
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−Feb
03−Mar
08−Mar
13−Mar
18−Mar
23−Mar
28−Mar
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

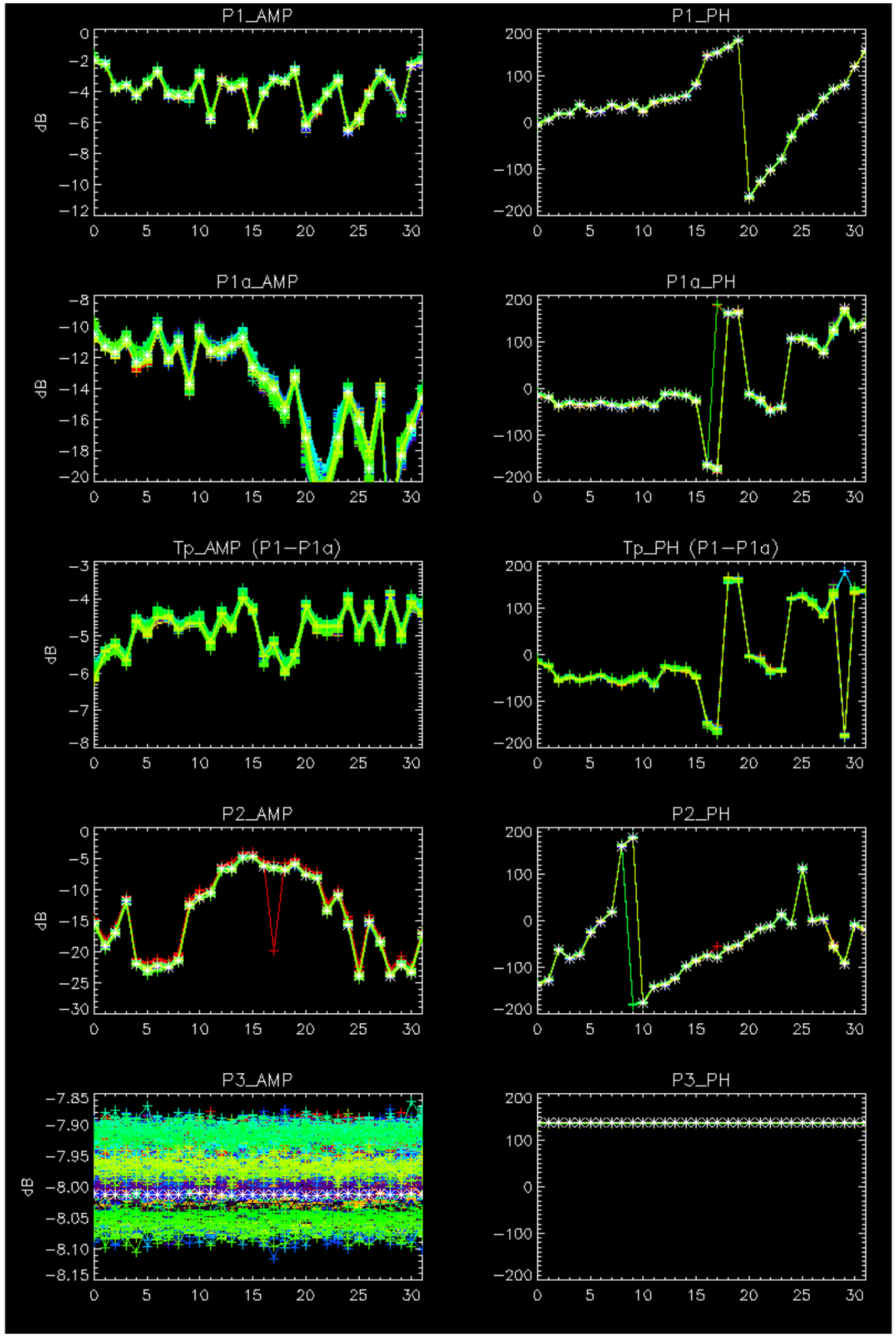

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
30−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
30−Mar
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
30−Mar
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
30−Mar
rows: _ 3 _ 7 _ 11 _ 15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

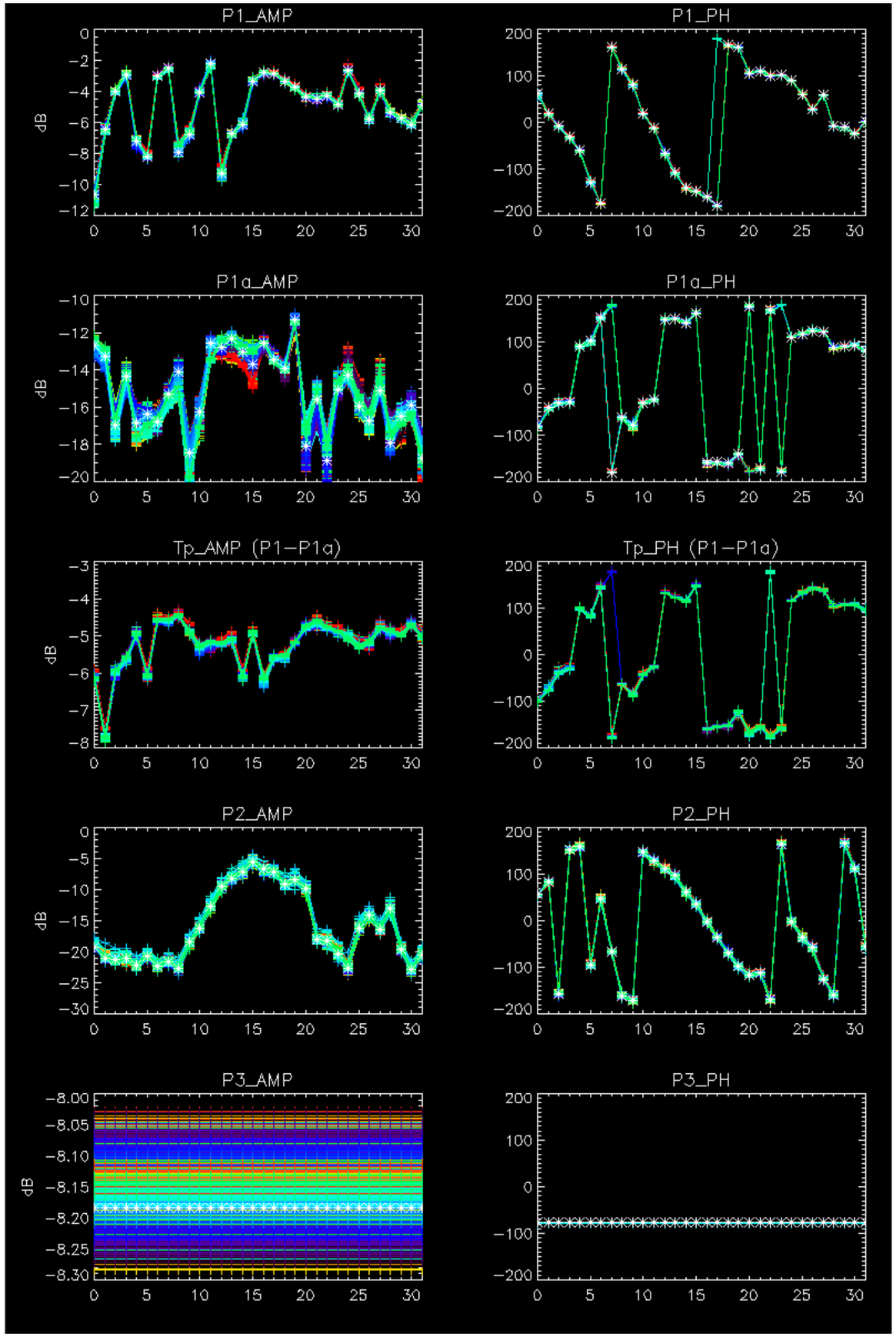

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar
23−Mar
28−Mar
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30


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

No anomalies observed on available browse products

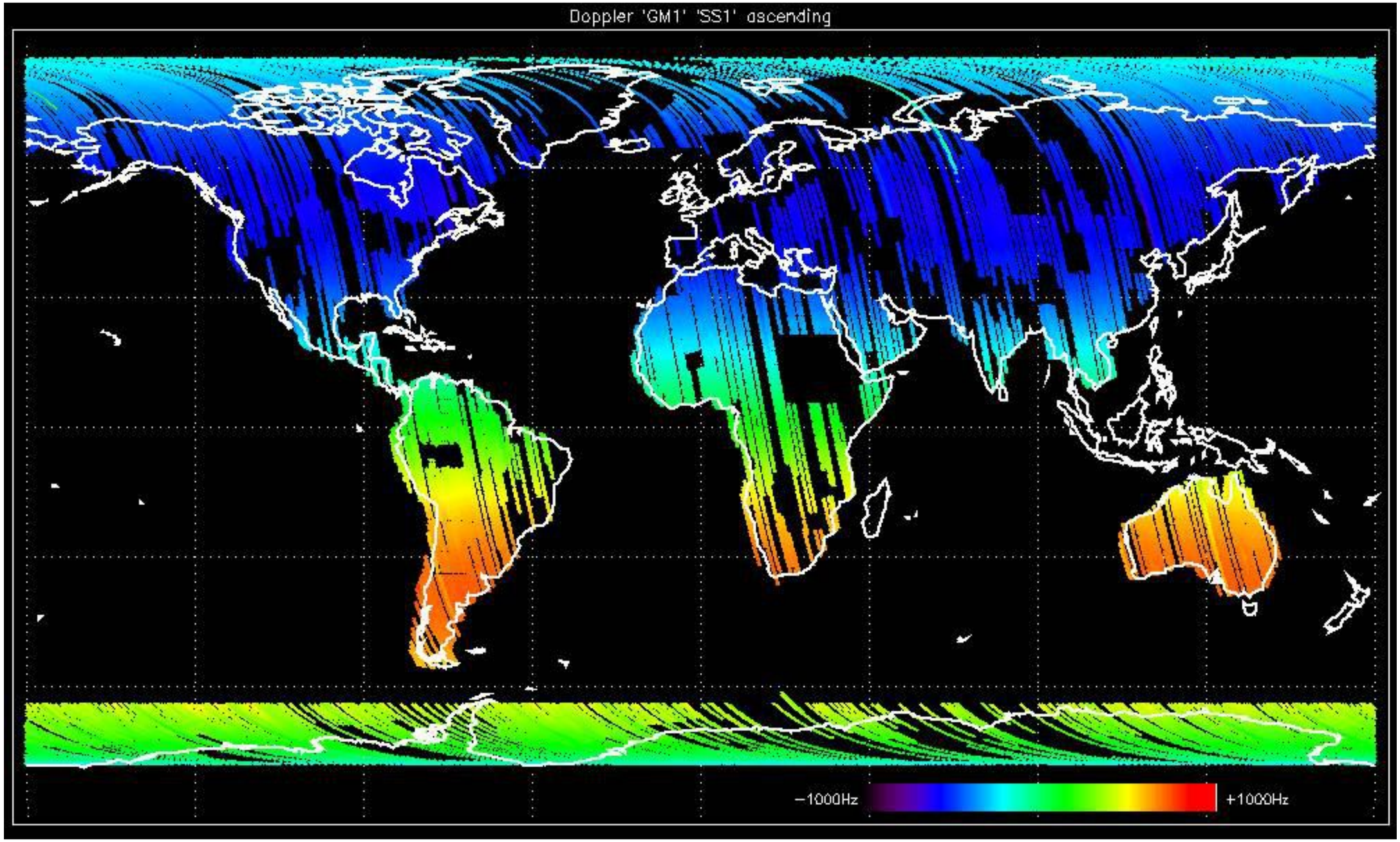
No anomalies observed.

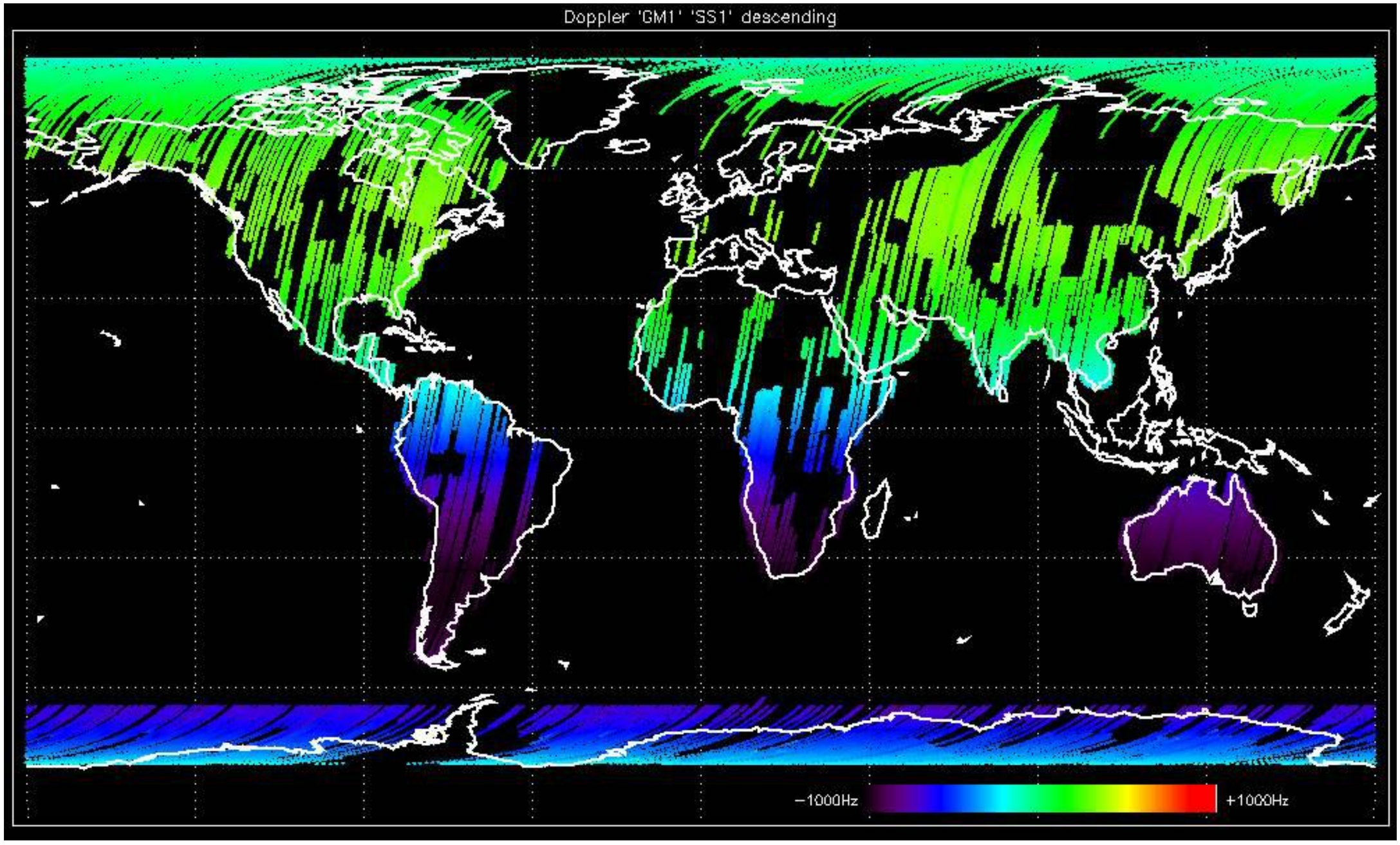

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

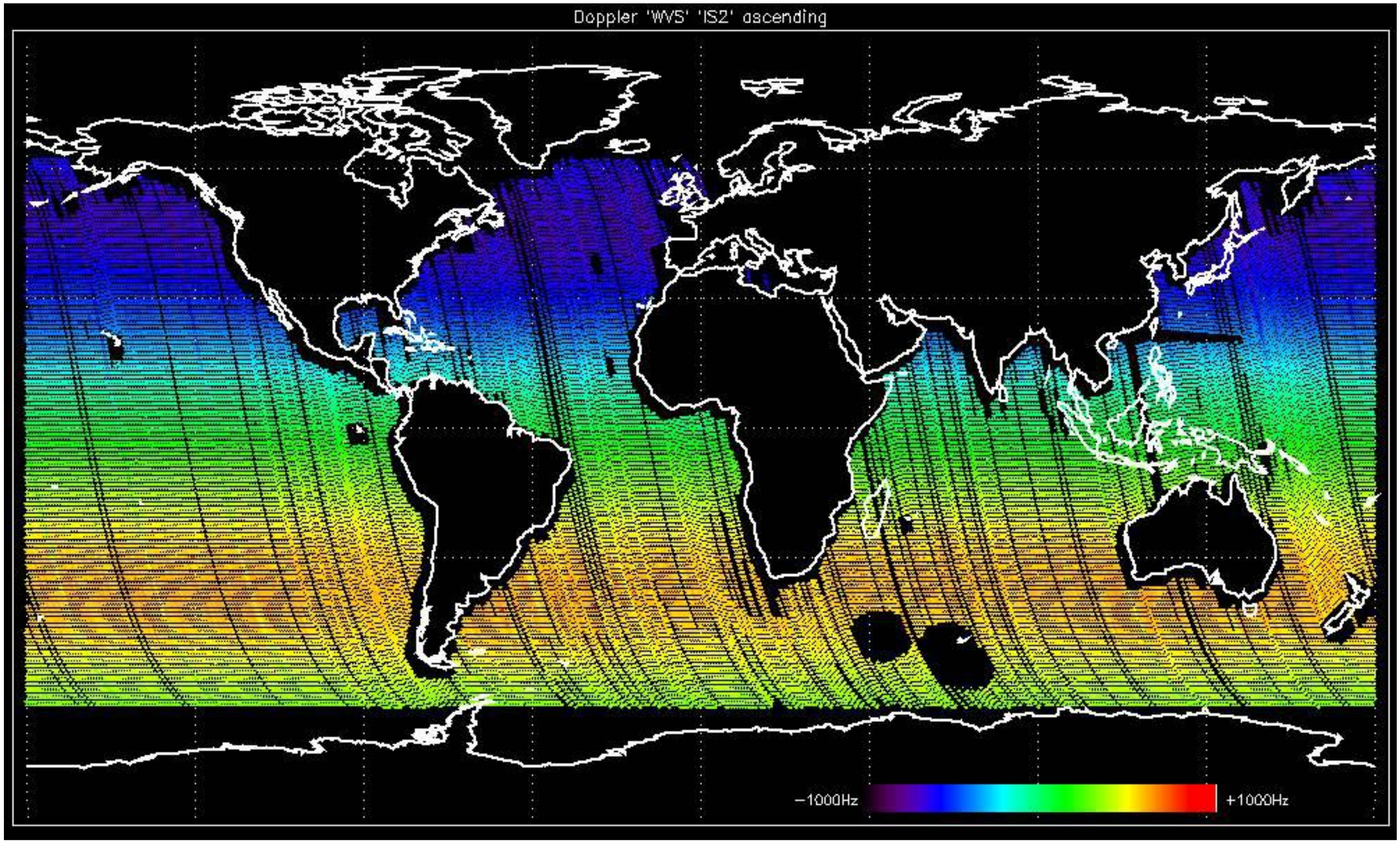

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

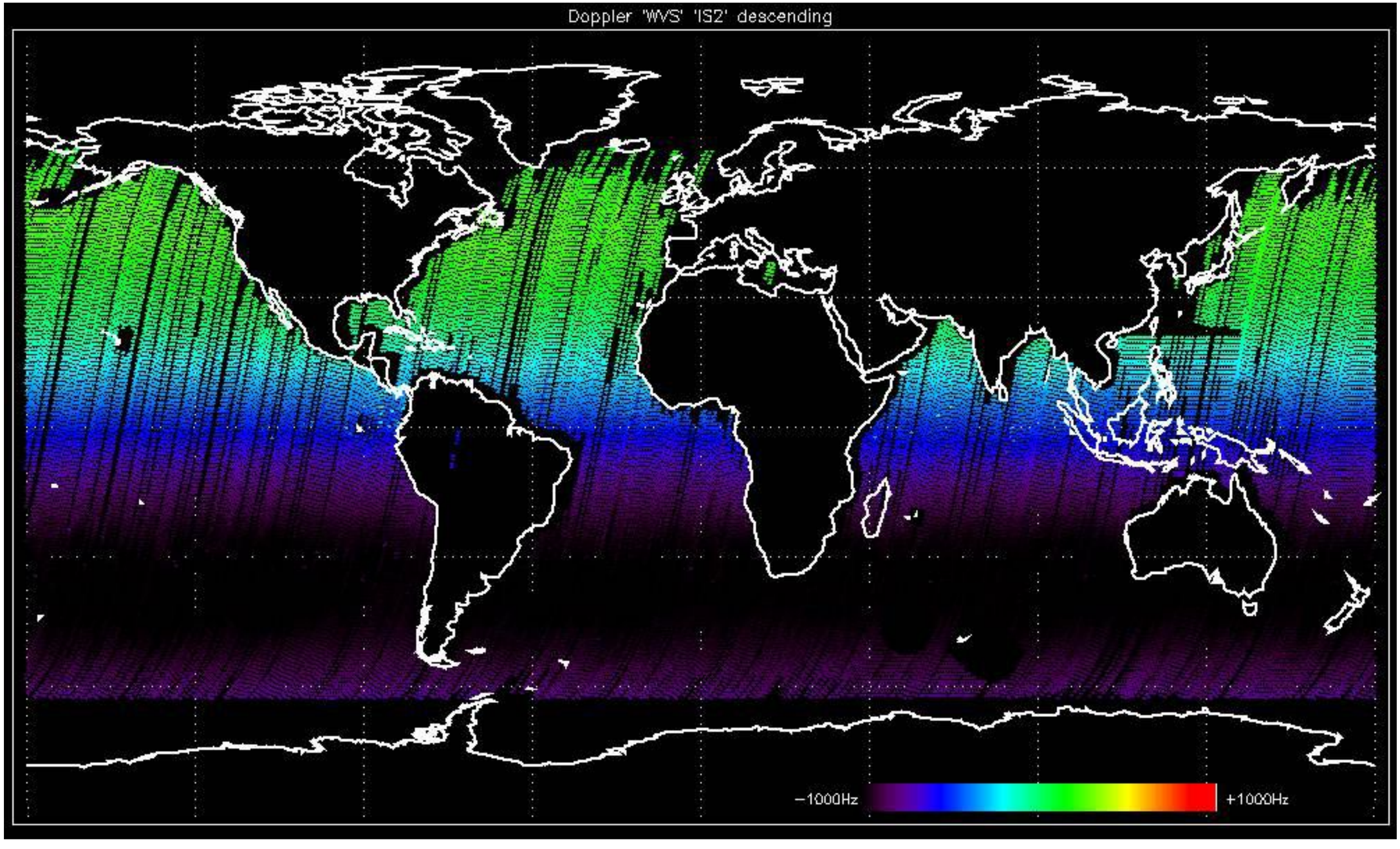
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

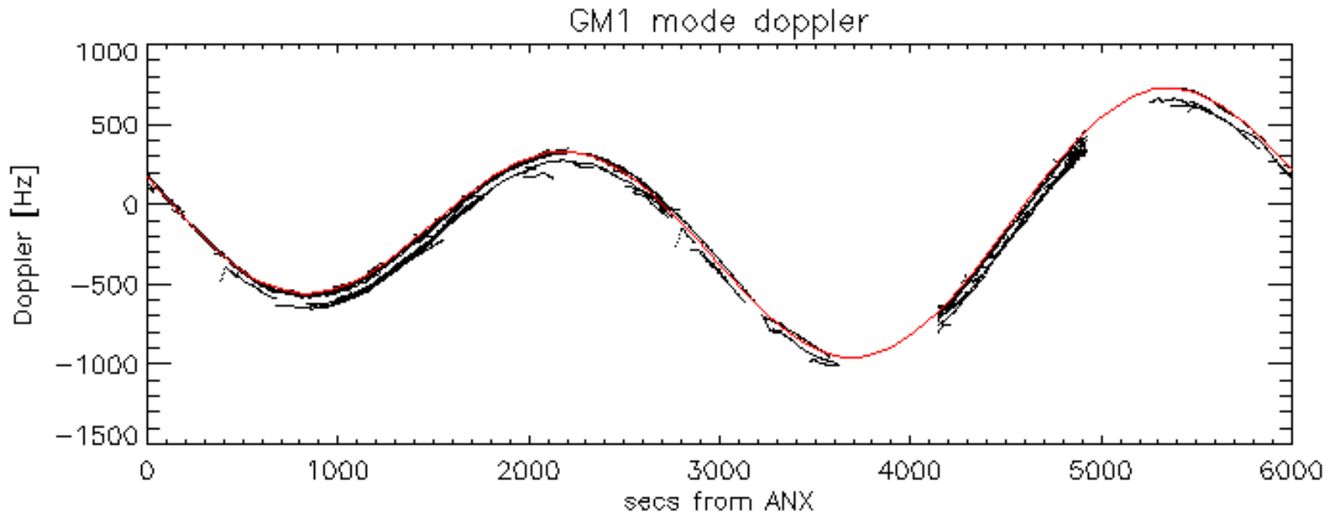
Preliminary report.The data is not yet controled

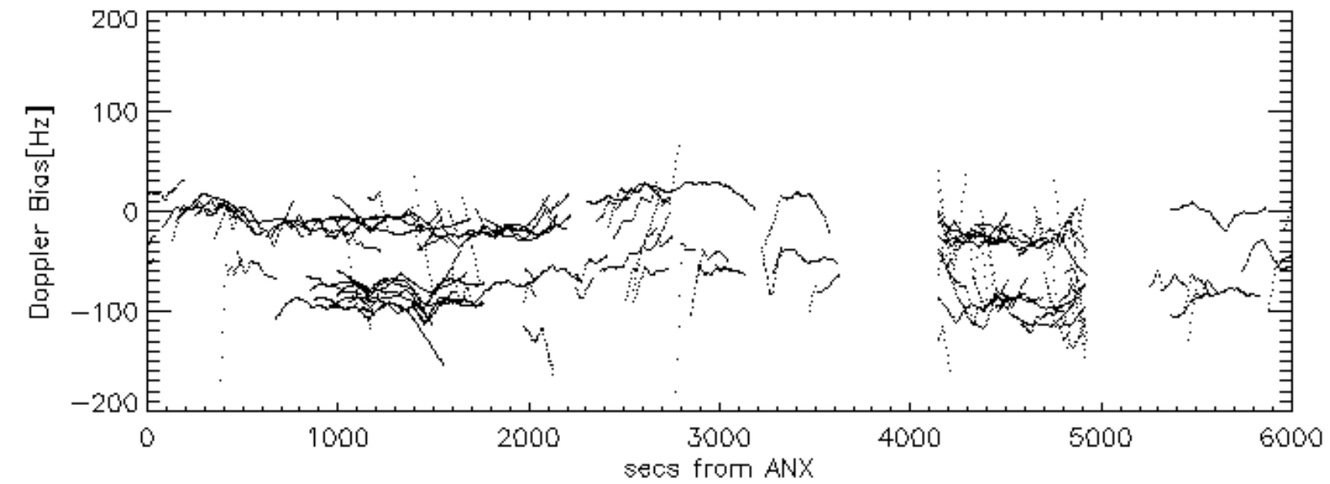

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

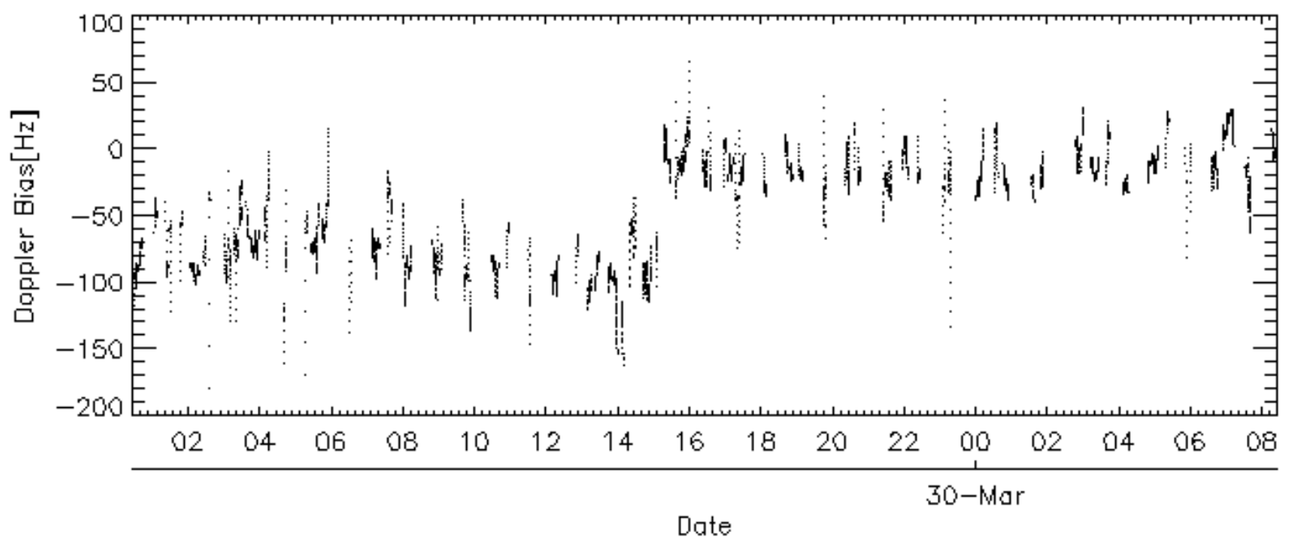

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

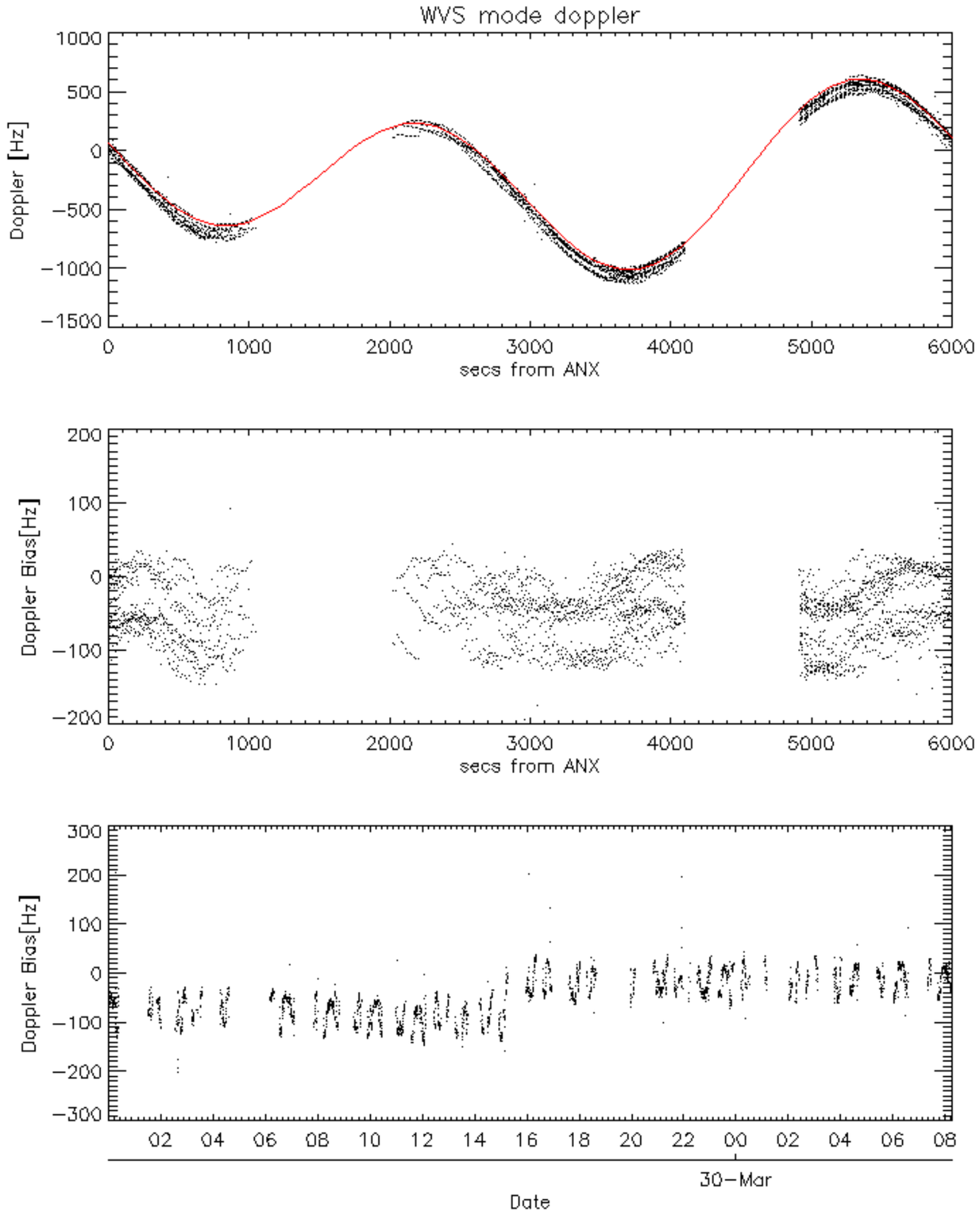

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

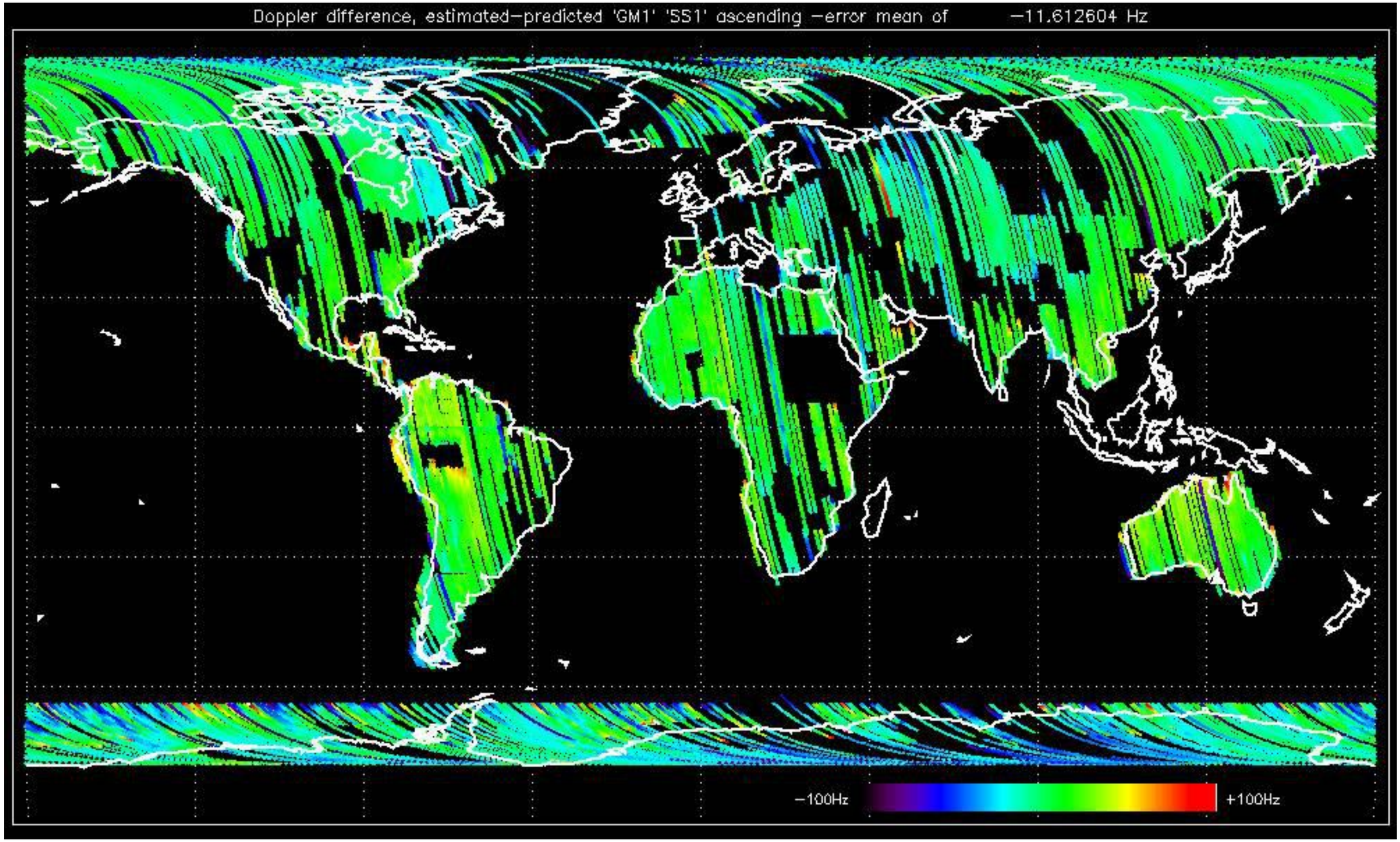

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

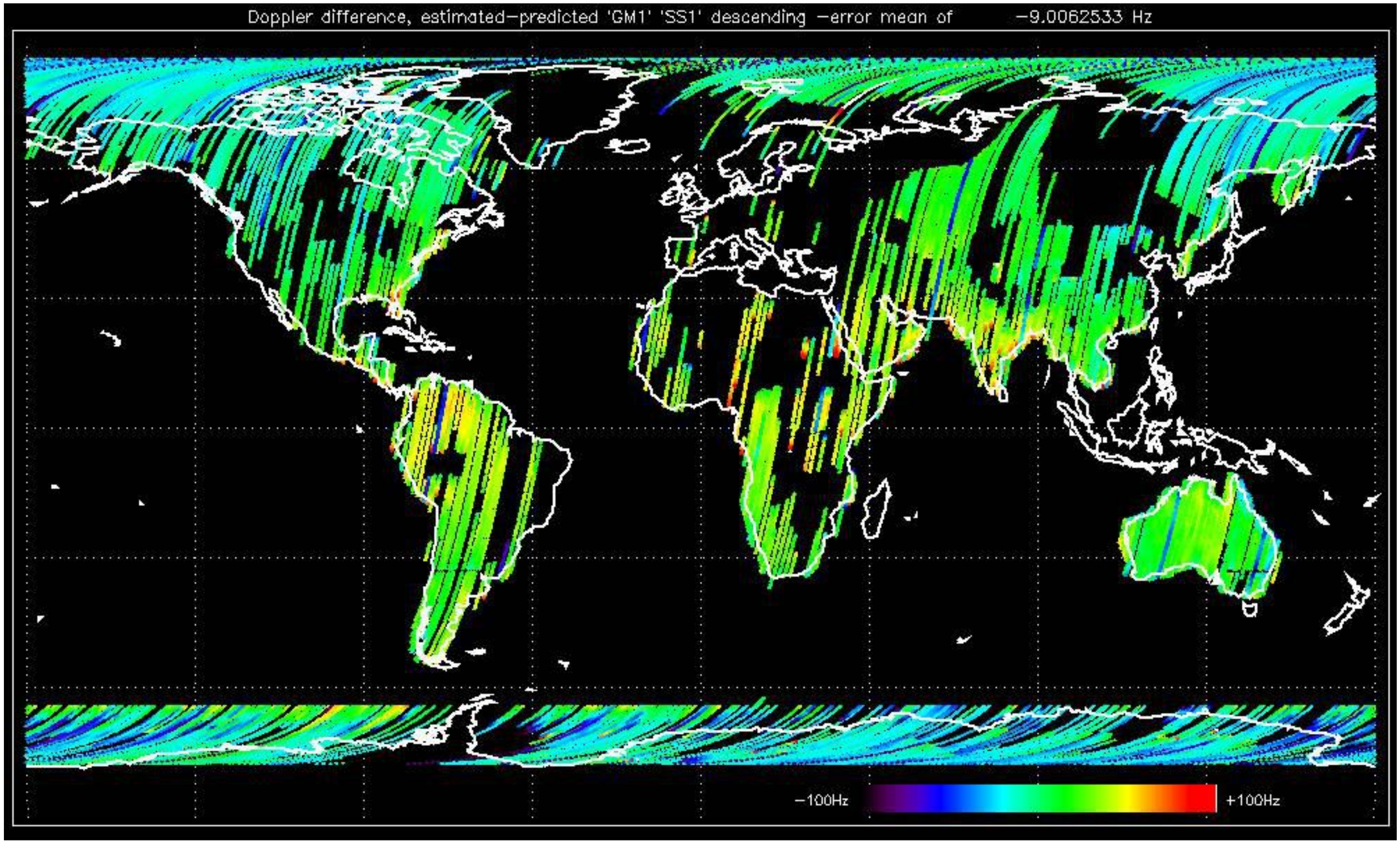

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

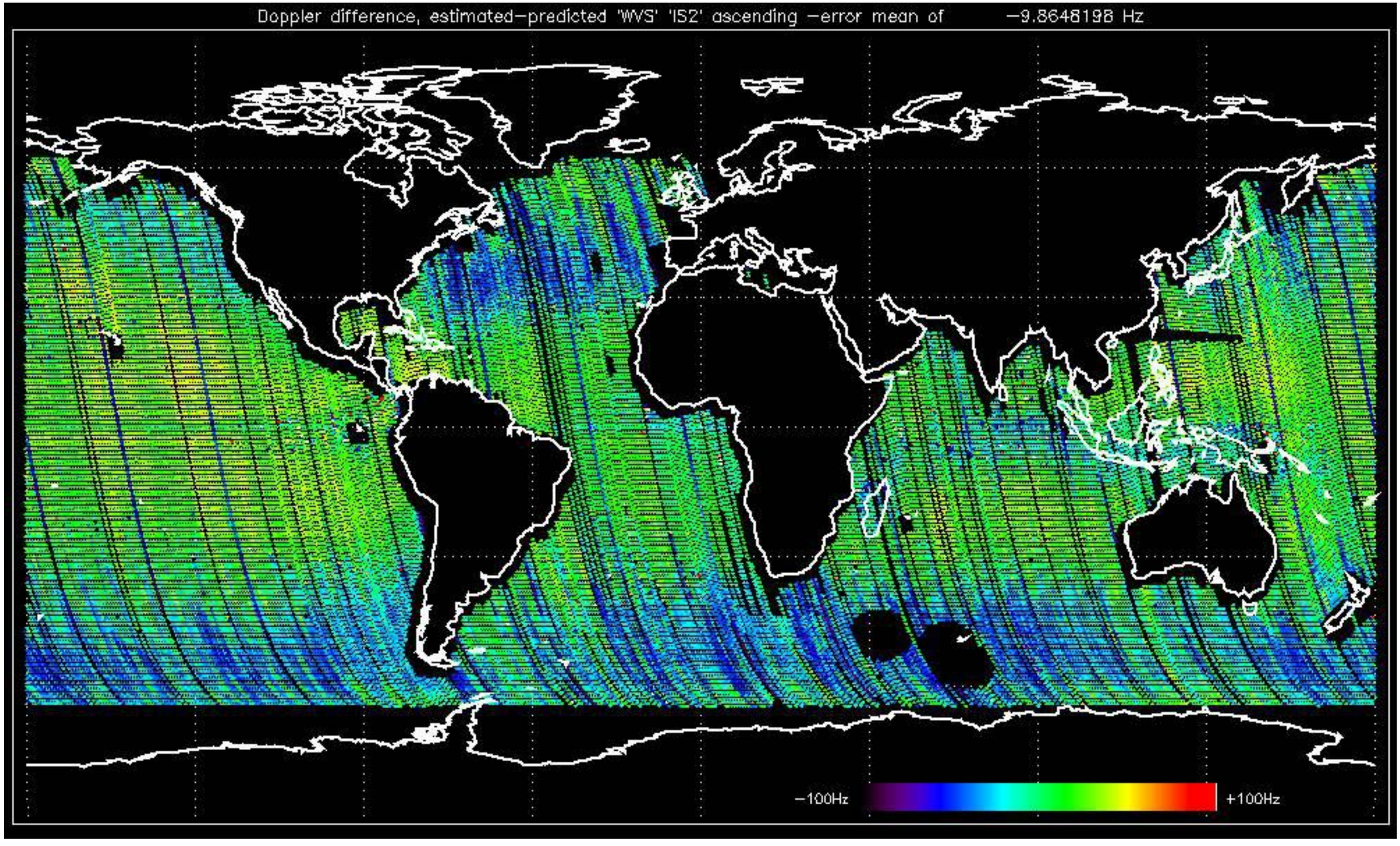

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

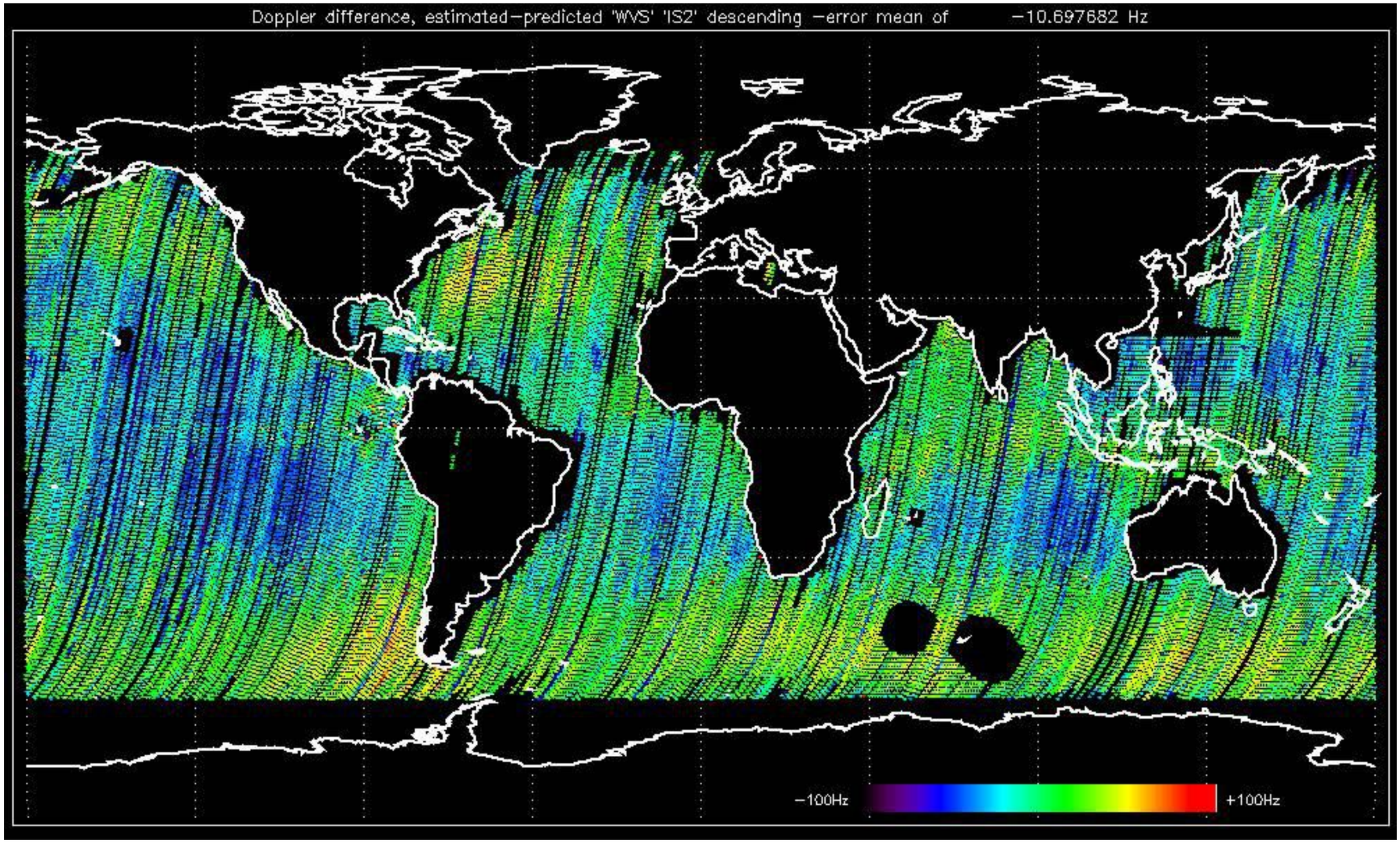

Doppler Bias[Hz]
100
50
0
−50
−100
−150
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
30−Mar
Date


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
08
30−Mar
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −11.612604 Hz
−100Hz
+100Hz

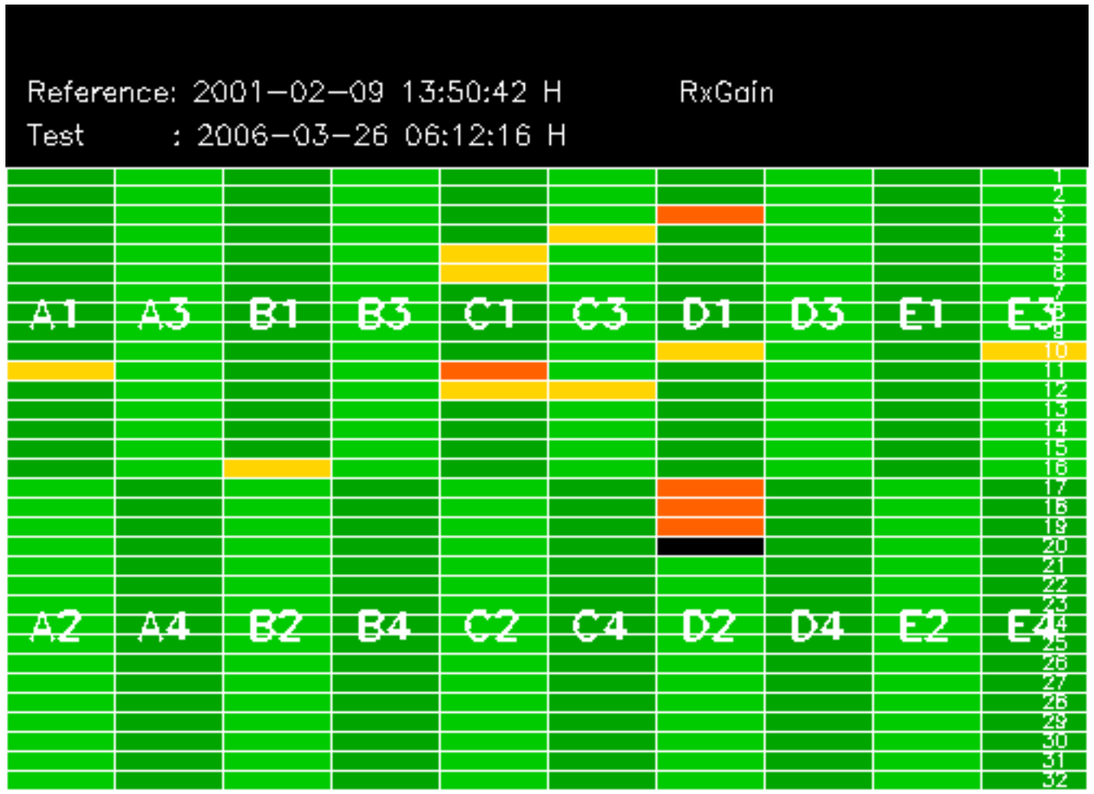

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -9.0062533 Hz
-100Hz
+100Hz

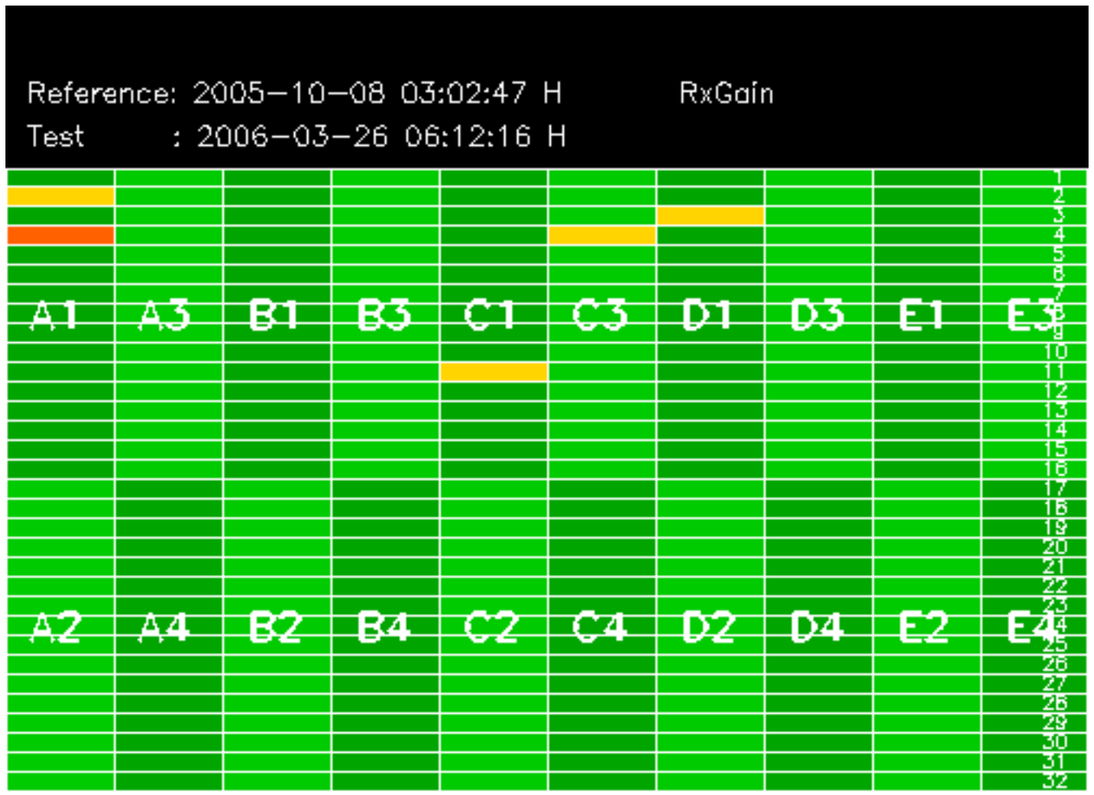

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −9.8648198 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.697682 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-03-26 06:12:16 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 : 2006-03-26 06:12:16 H
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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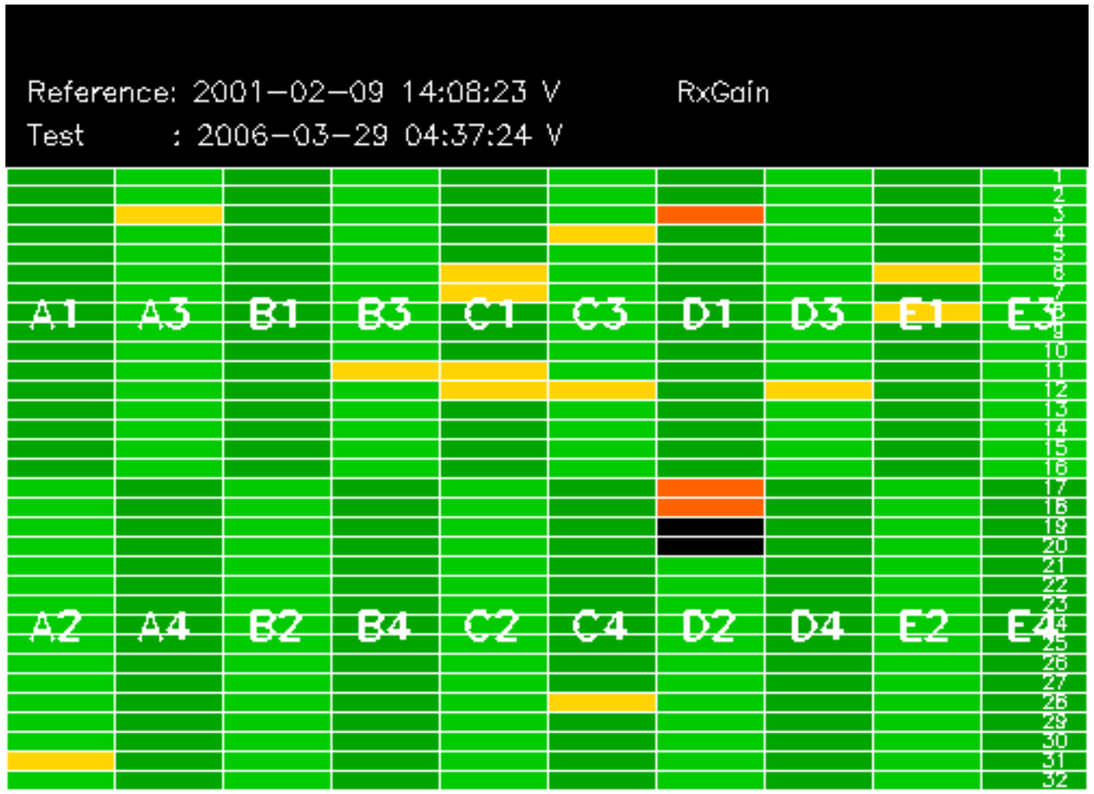
Reference: 2001-02-09 14:08:23 V
Test : 2006-03-29 04:37:24 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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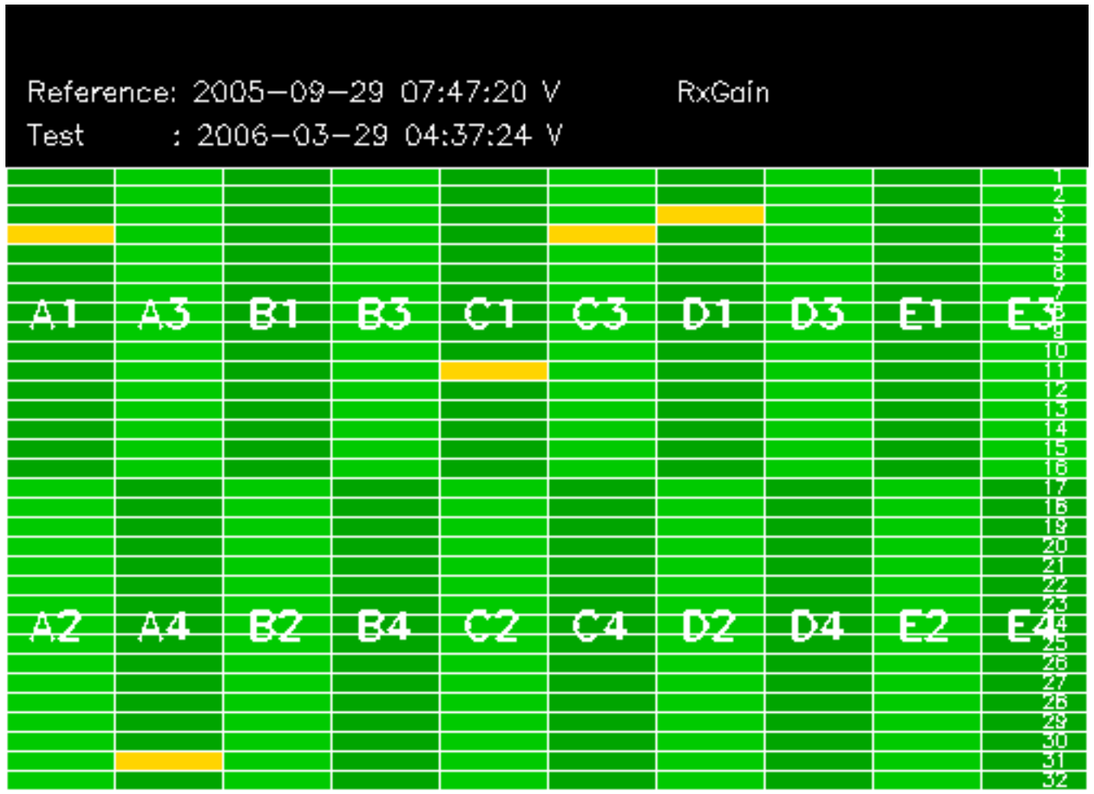
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-29 04:37:24 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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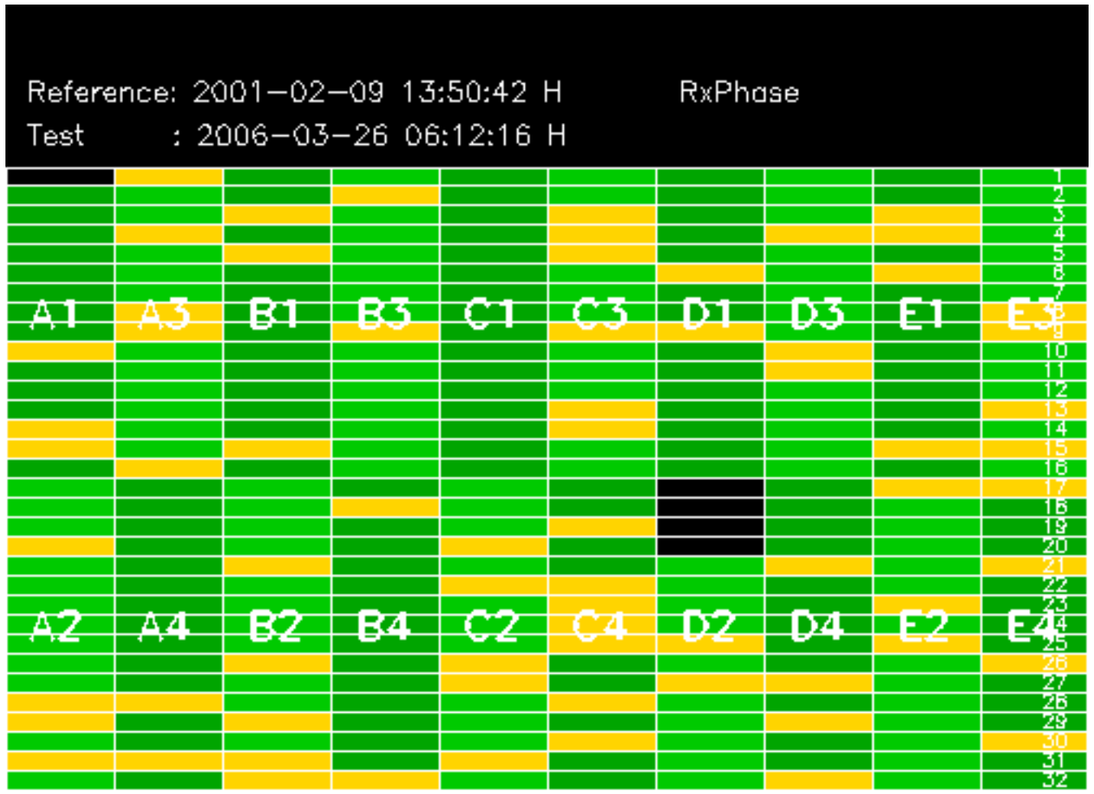
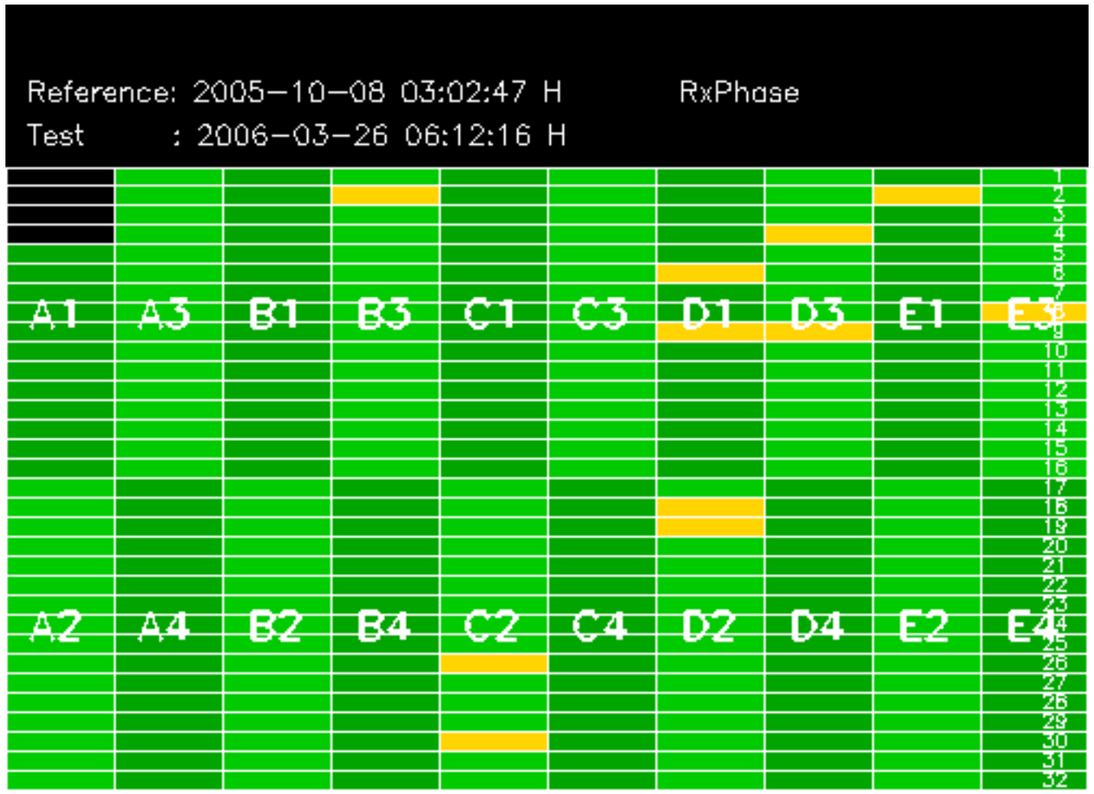

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-03-26 06:12:16 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-03-26 06:12:16 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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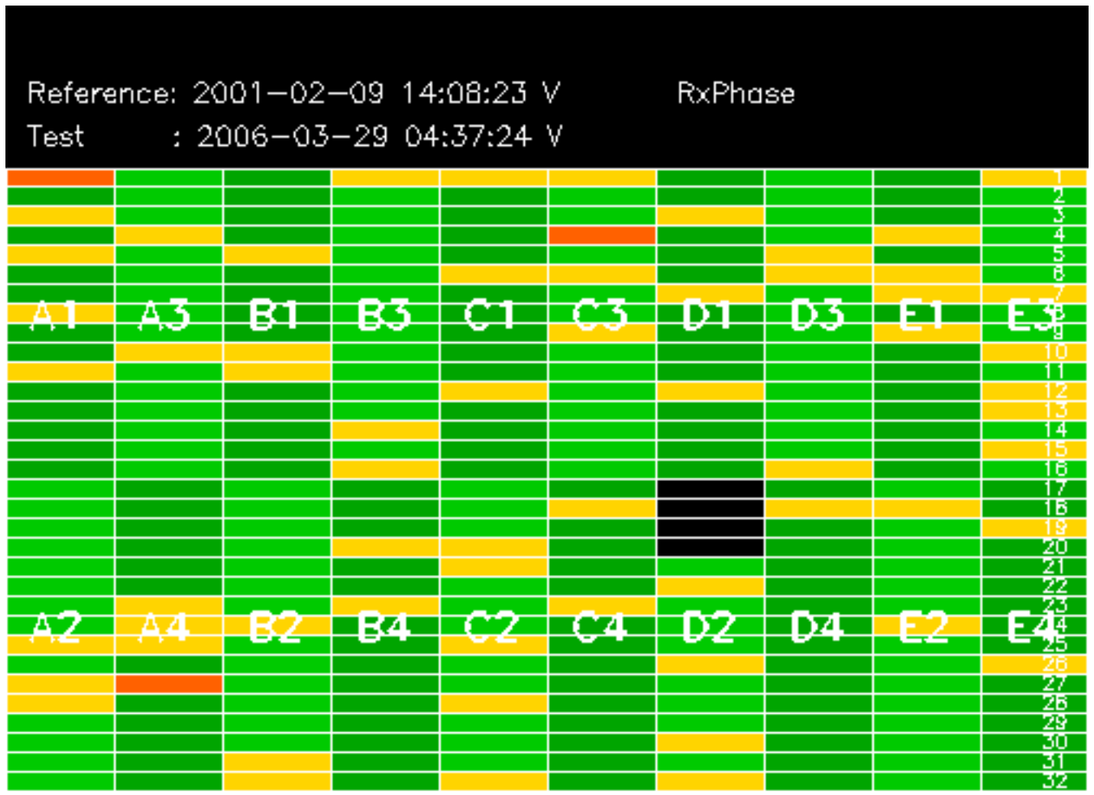
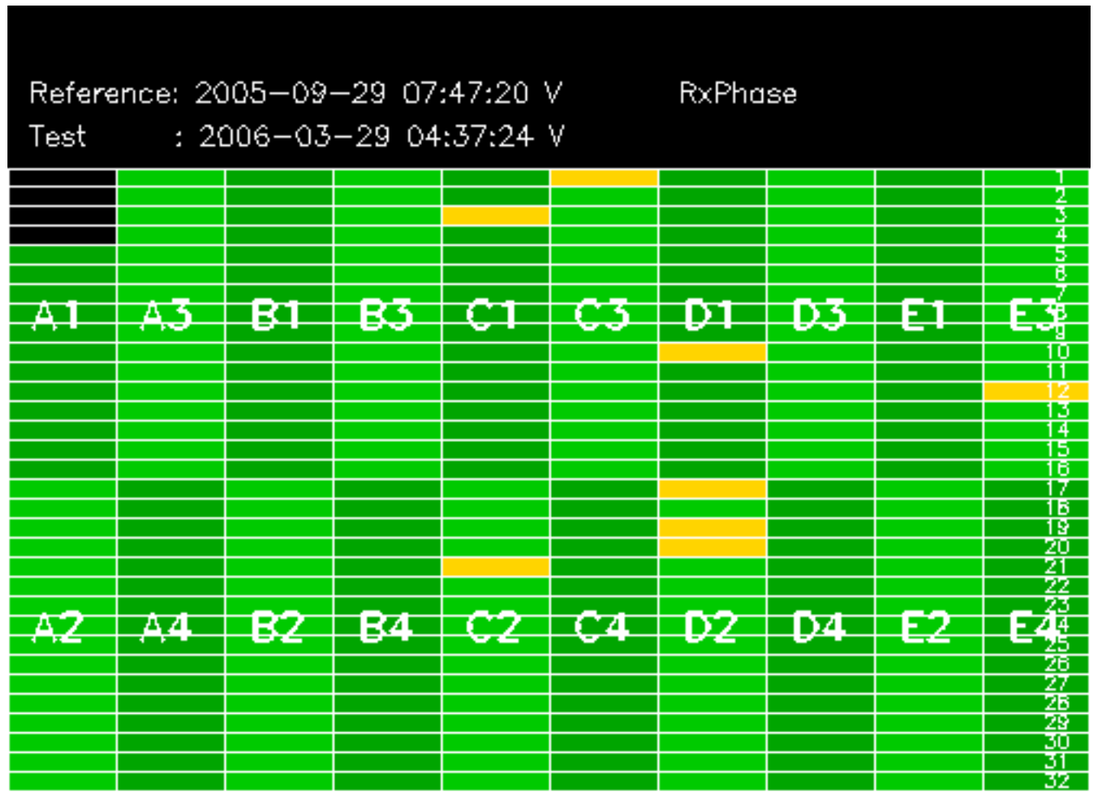

Reference: 2001-02-09 14:08:23 V
Test : 2006-03-29 04:37:24 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-03-29 04:37:24 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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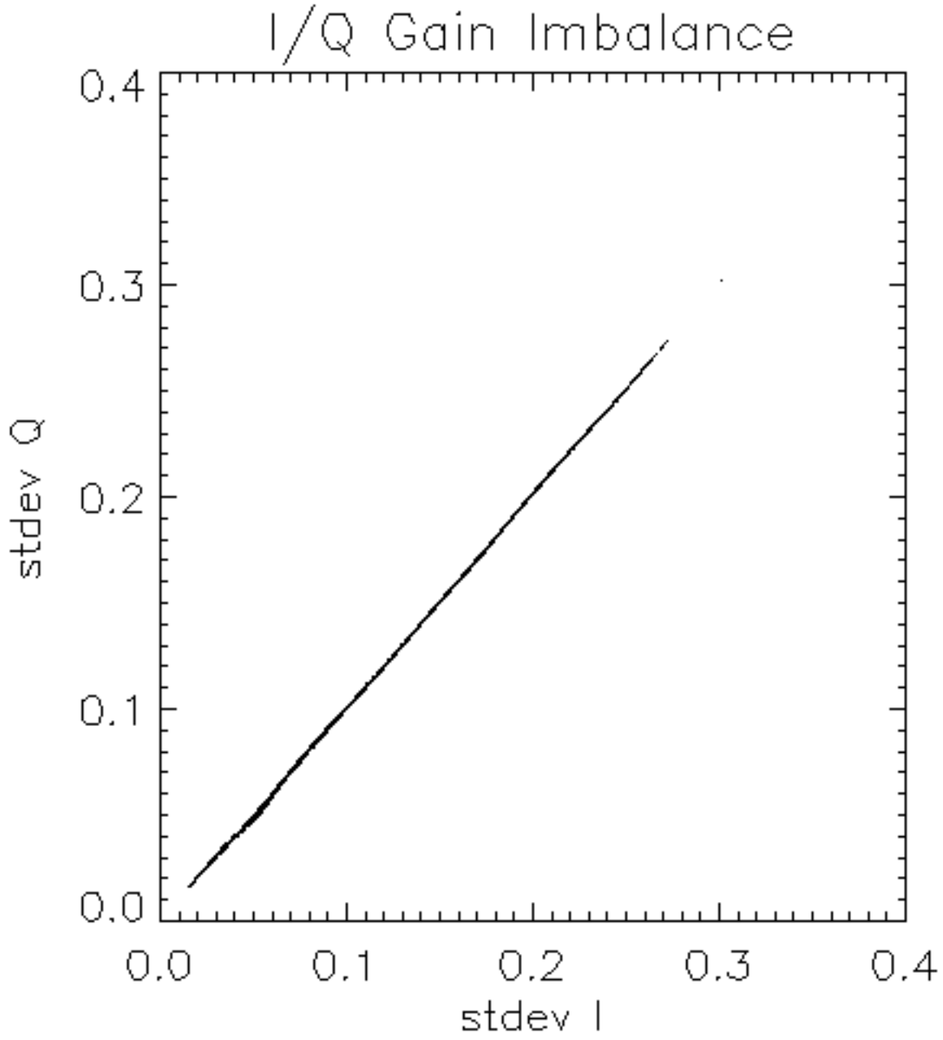
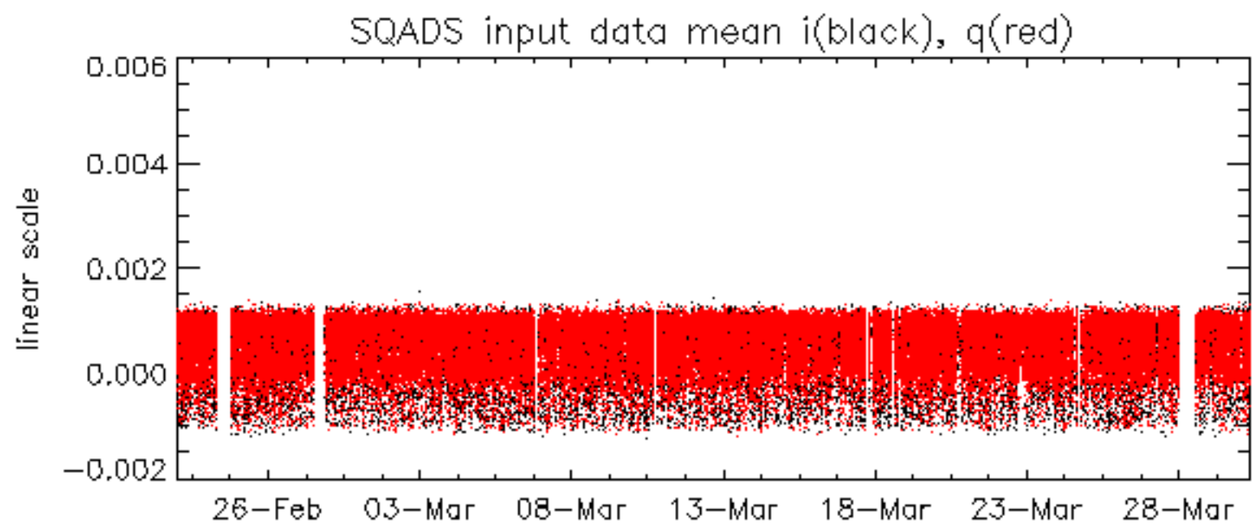
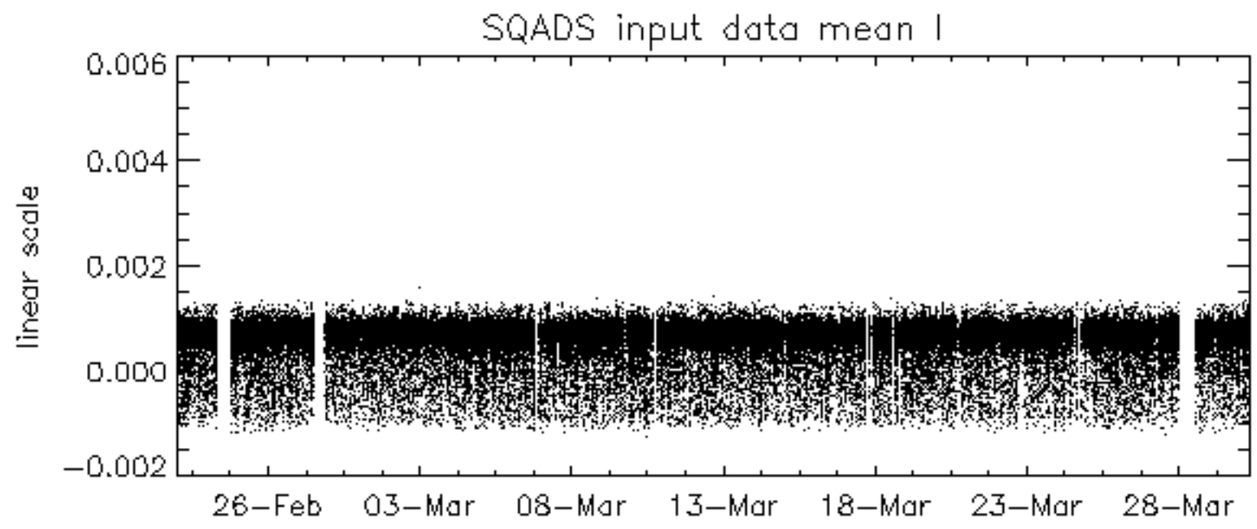
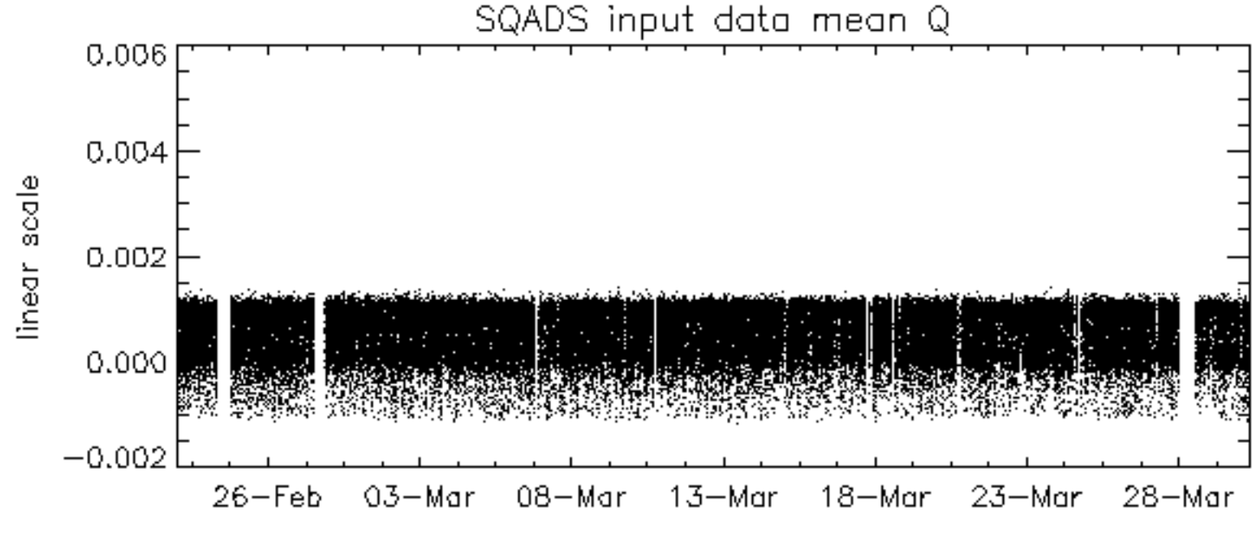
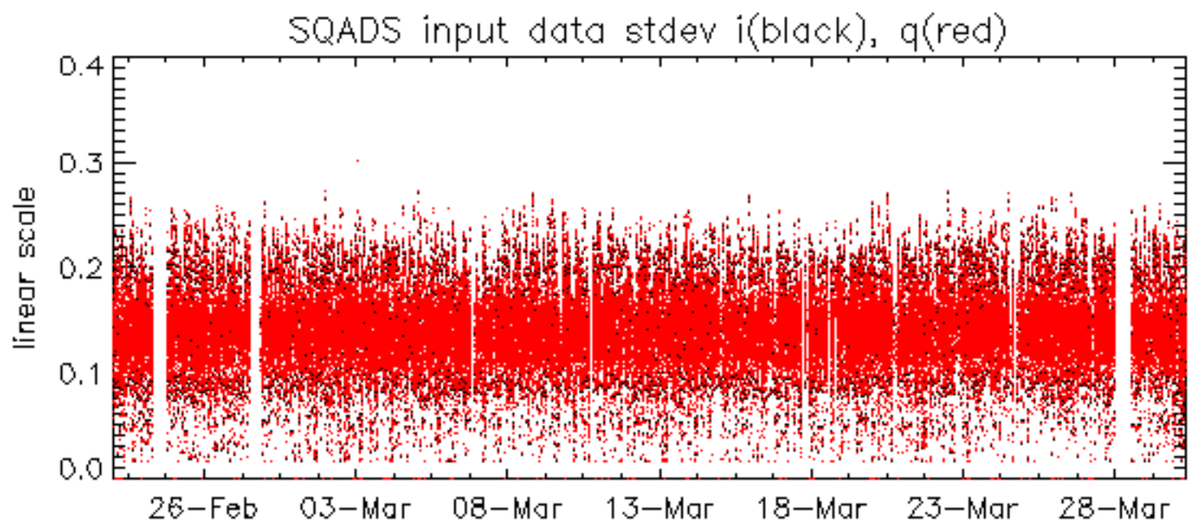
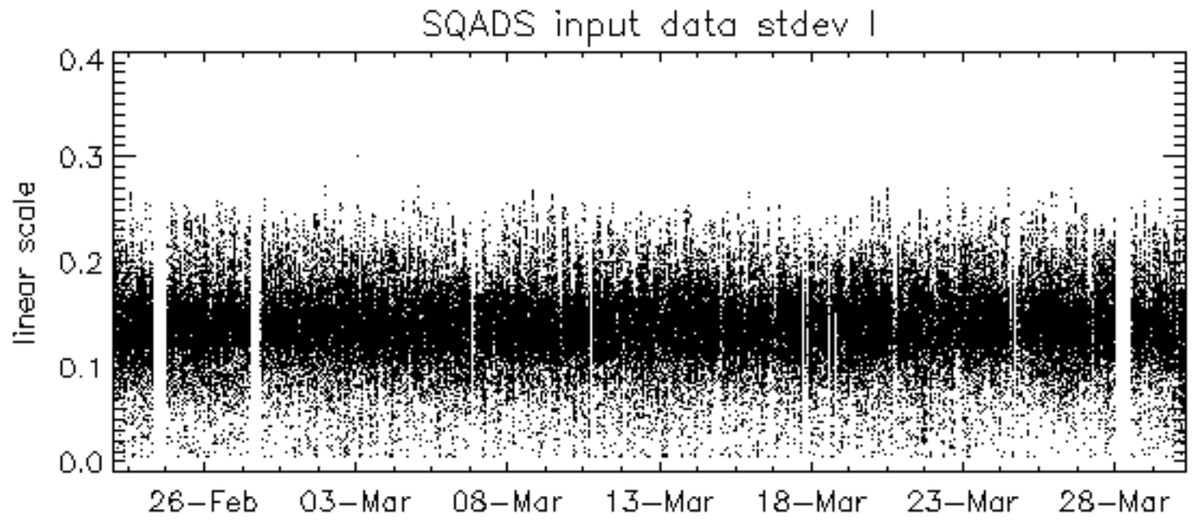

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

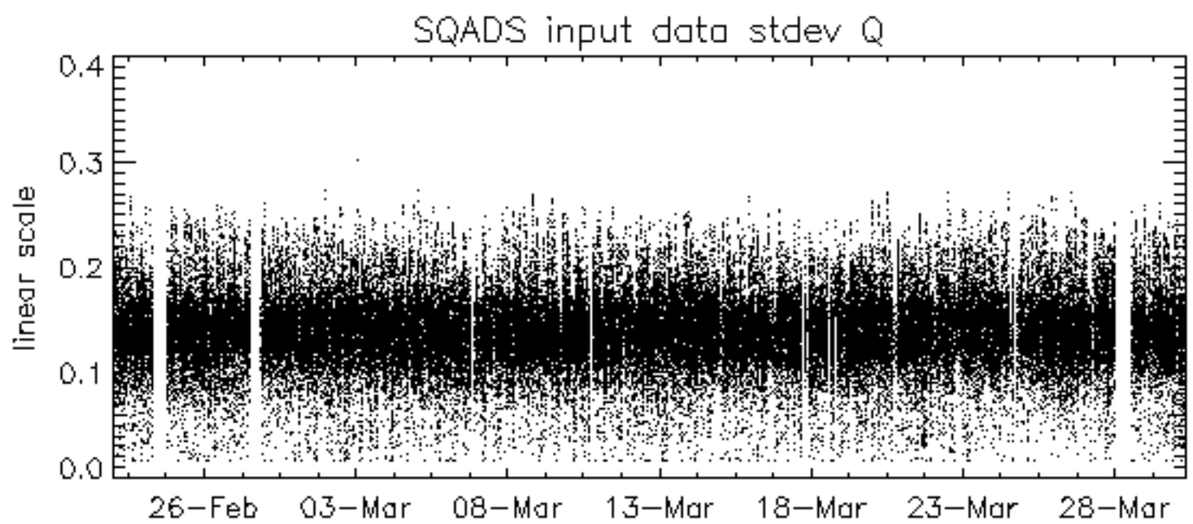

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar
23−Mar
28−Mar

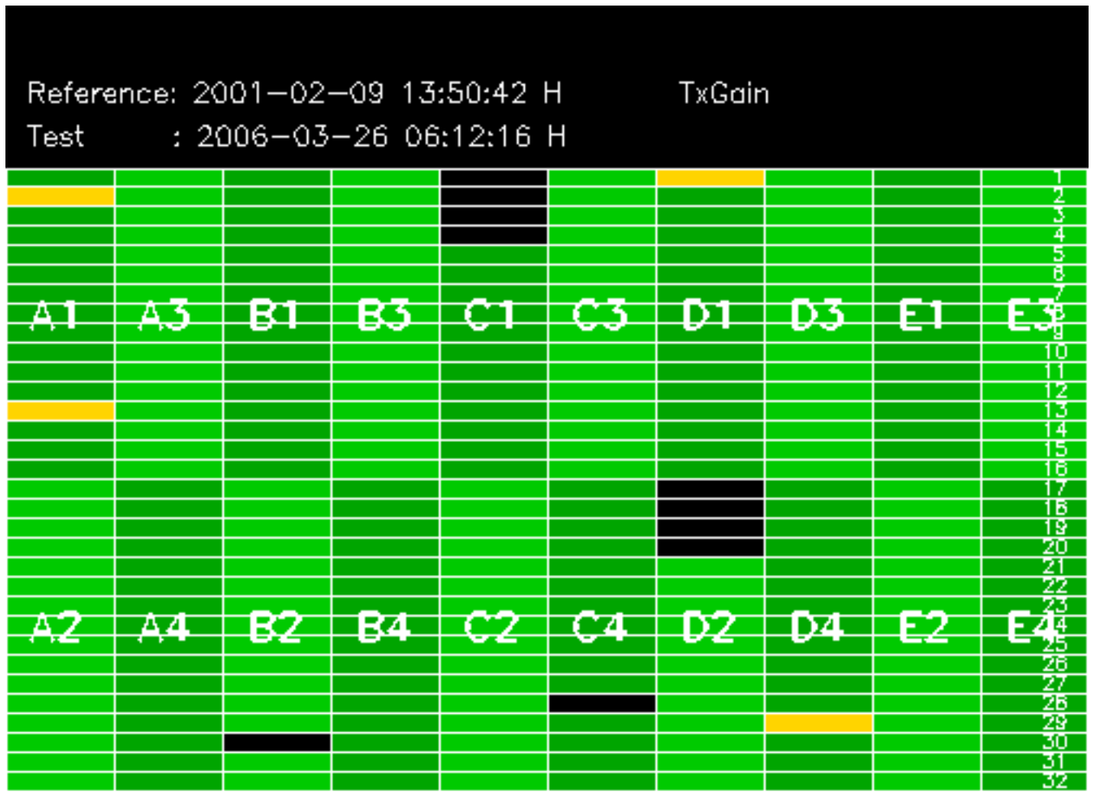

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar
23−Mar
28−Mar


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar
23−Mar
28−Mar


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
26-Feb
03-Mar
08-Mar
13-Mar
18-Mar
23-Mar
28-Mar


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
26-Feb
03-Mar
08-Mar
13-Mar
18-Mar
23-Mar
28-Mar


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
26-Feb
03-Mar
08-Mar
13-Mar
18-Mar
23-Mar
28-Mar


Reference: 2001-02-09 13:50:42 H
Test : 2006-03-26 06:12:16 H
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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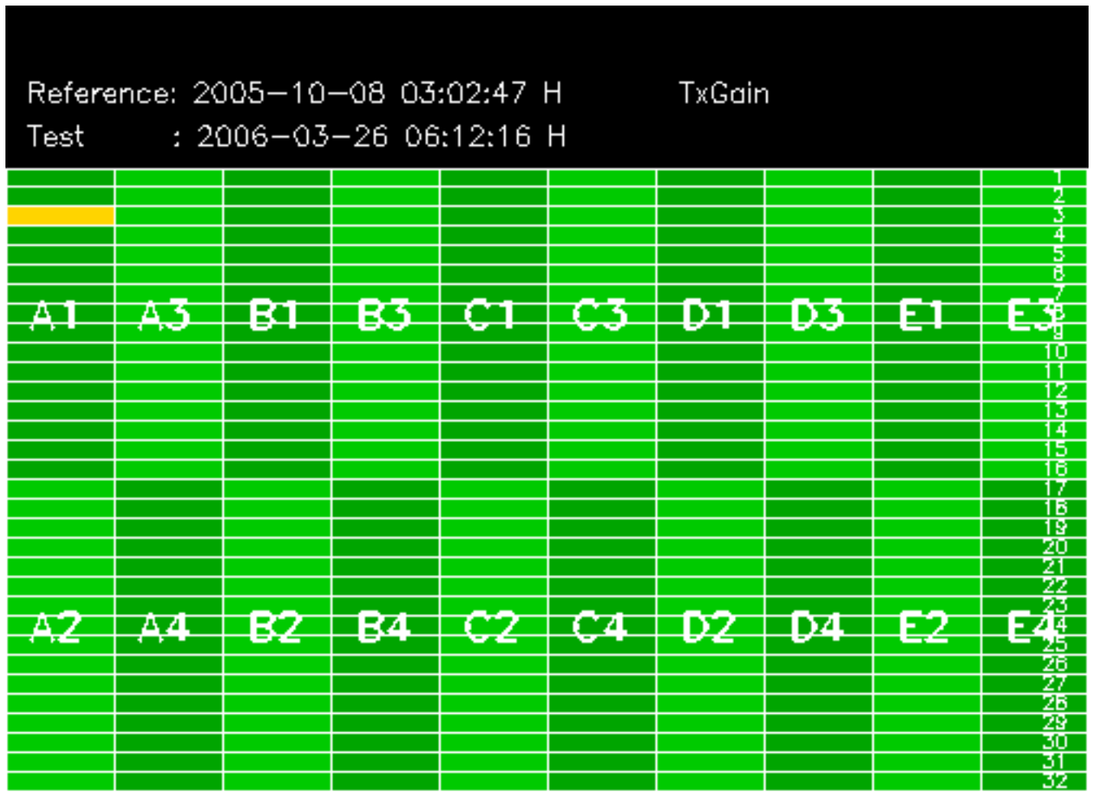
Reference: 2005-10-08 03:02:47 H
Test : 2006-03-26 06:12:16 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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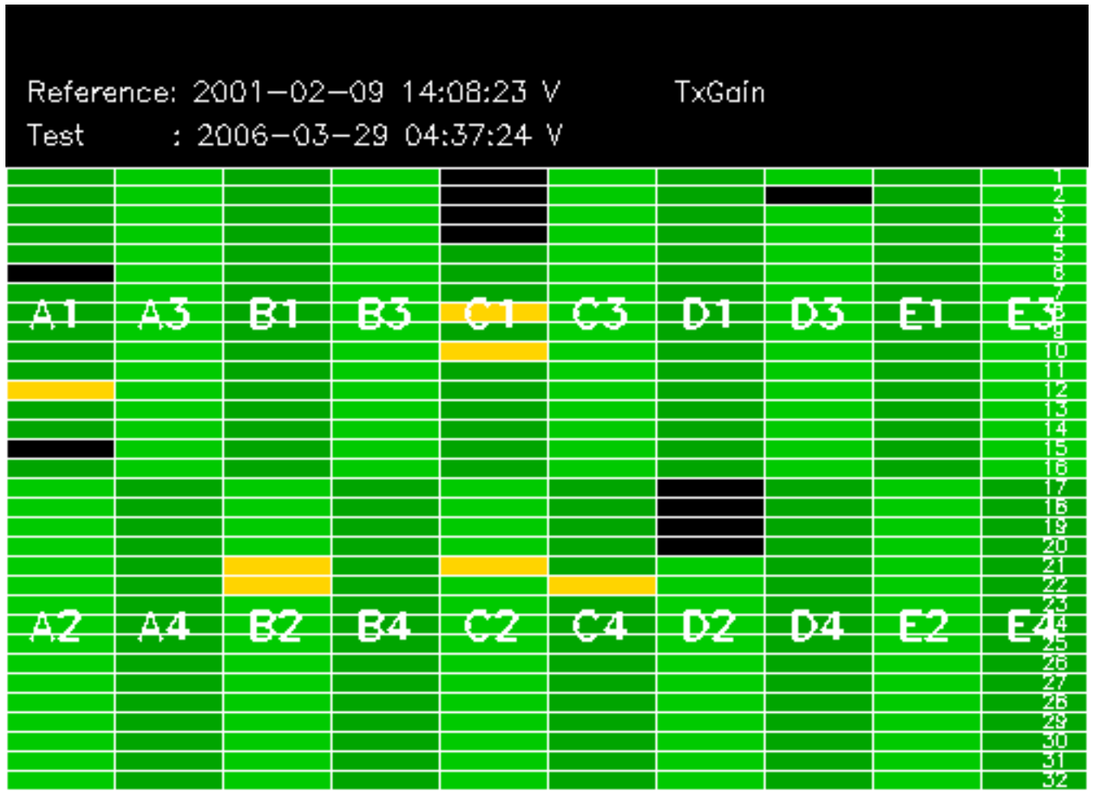
Reference: 2001-02-09 14:08:23 V
Test : 2006-03-29 04:37:24 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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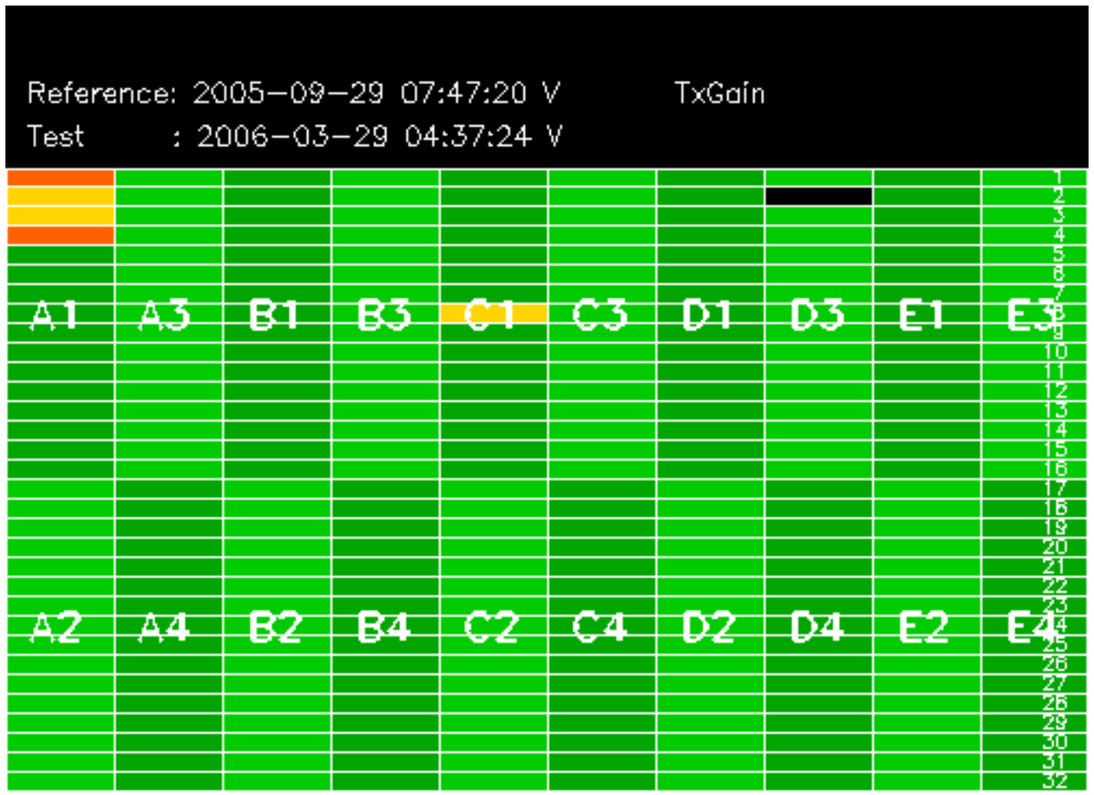
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-29 04:37:24 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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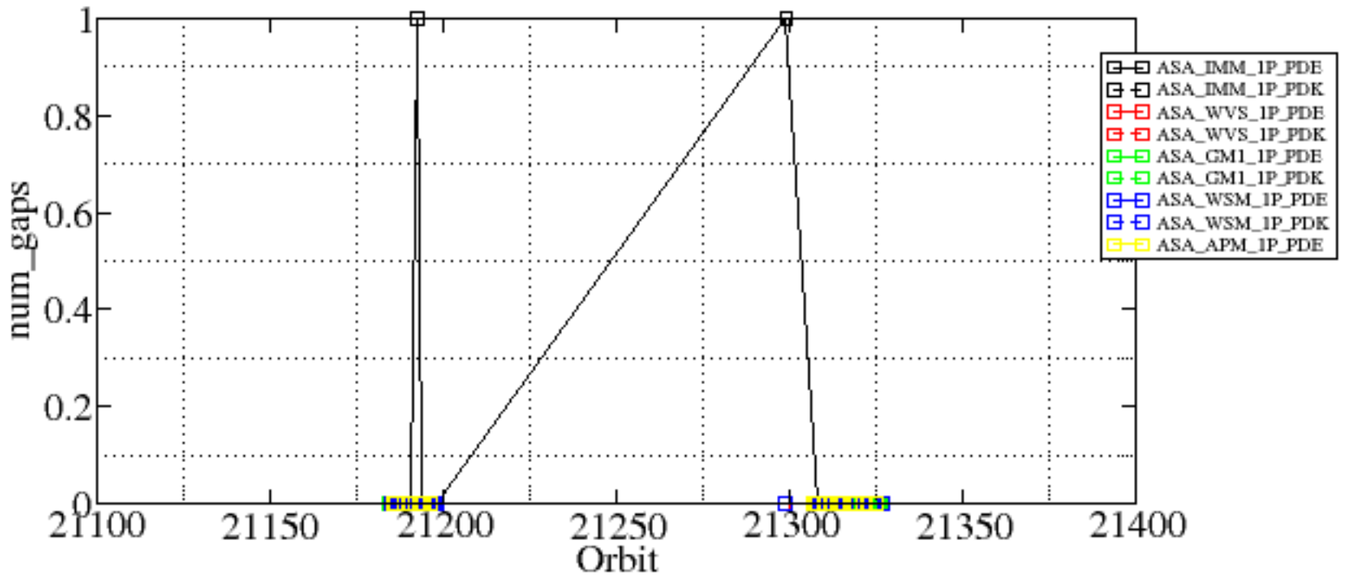
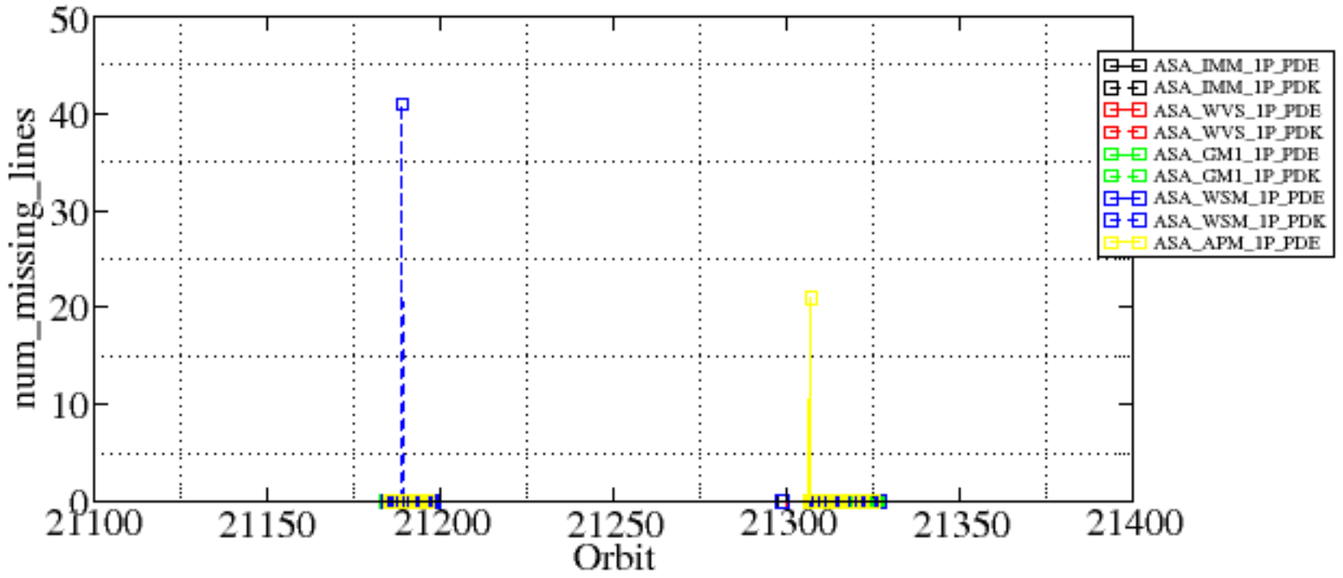
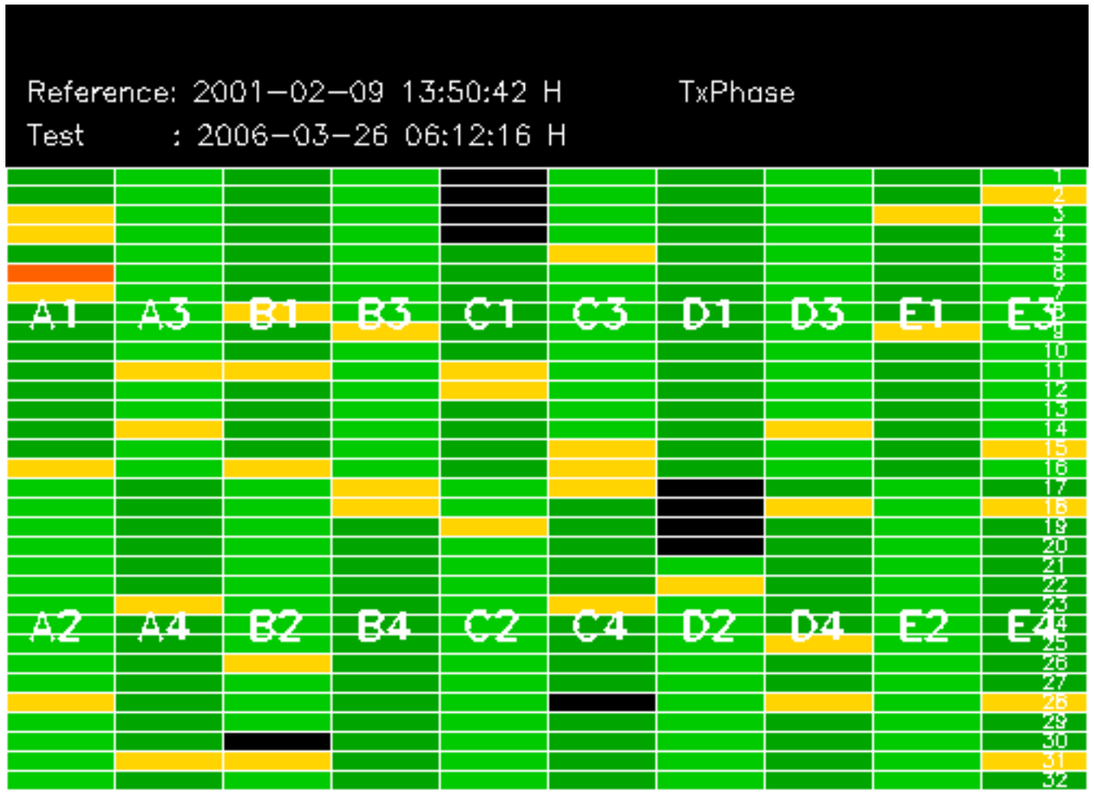
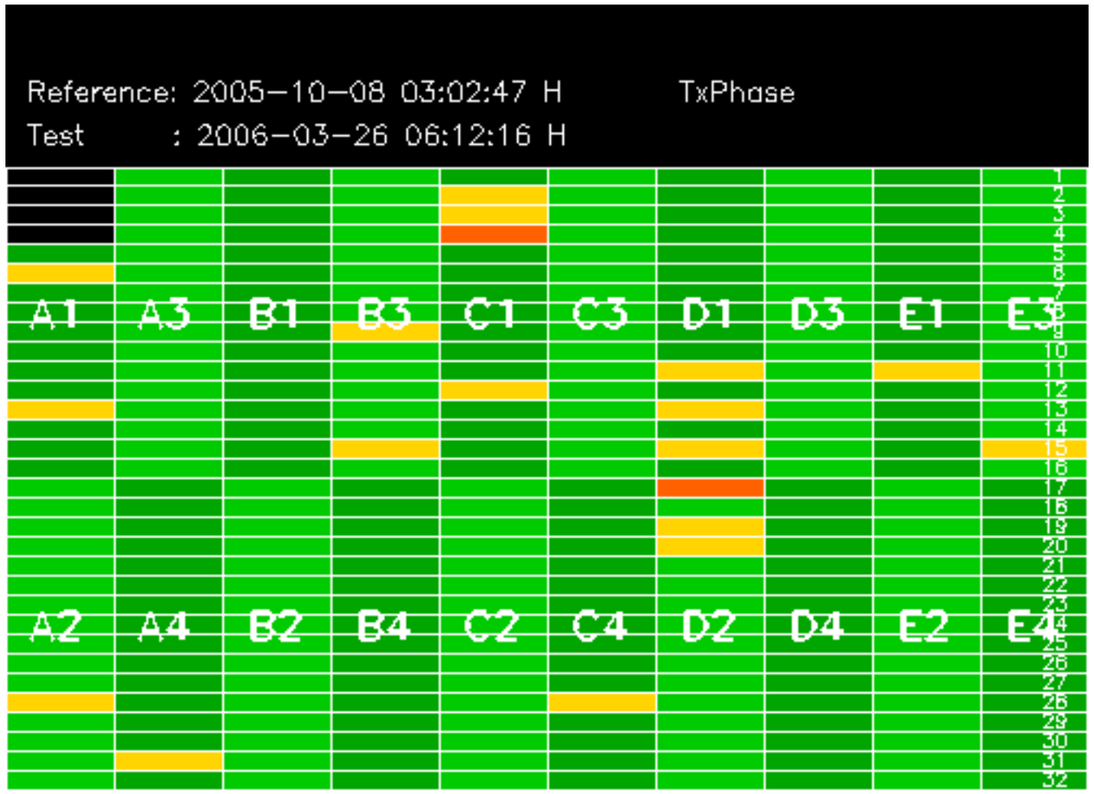
Summary of analysis for the last 3 days 2006032[890]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060320_141119_000001602046_00096_21192_1254.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060328_003704_000001362046_00202_21298_1625.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20060320_081910_000000862046_00093_21189_0874.N1 </td> <td>0 </td> <td>41 </td></tr>
<tr> <td>ASA_APM_1PNPDE20060328_141116_000000822046_00211_21307_0671.N1 </td> <td>0 </td> <td>21 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
21100
21150
21200
21250
21300
21350
21400
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


num_missing_lines
Orbit
50
40
30
20
10
0
21100
21150
21200
21250
21300
21350
21400
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


Reference: 2001-02-09 13:50:42 H
Test : 2006-03-26 06:12:16 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 : 2006-03-26 06:12:16 H
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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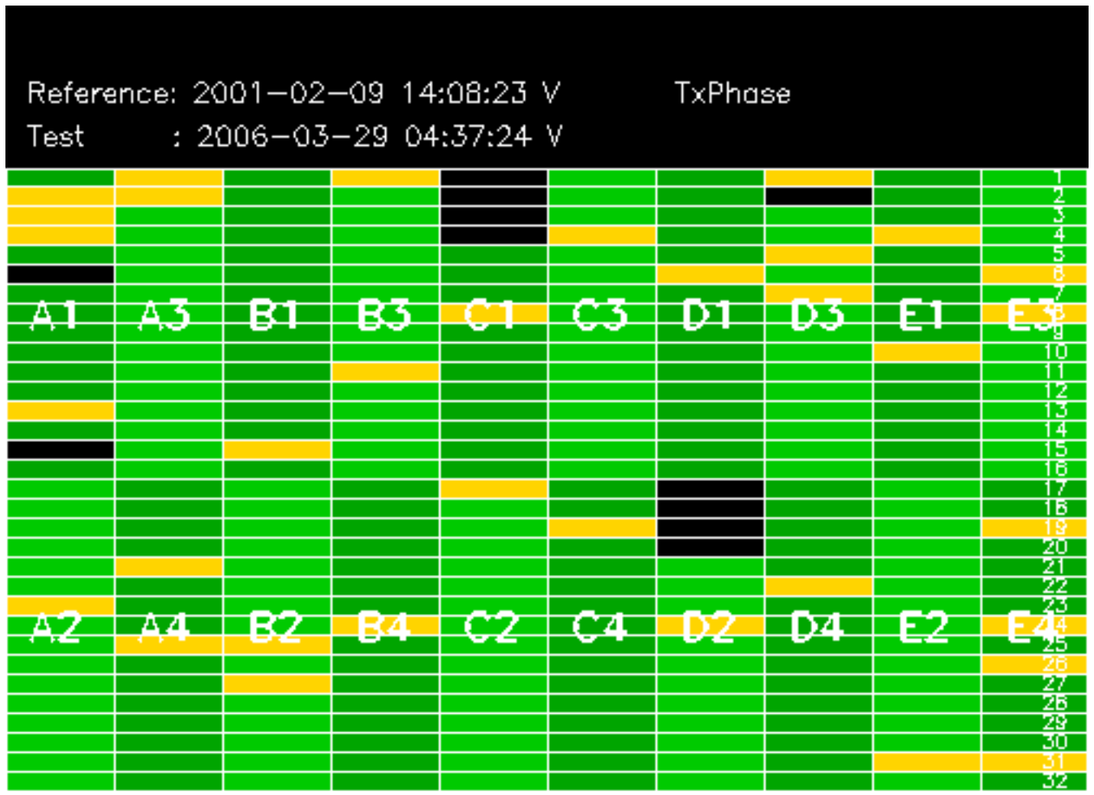
Reference: 2001-02-09 14:08:23 V
Test : 2006-03-29 04:37:24 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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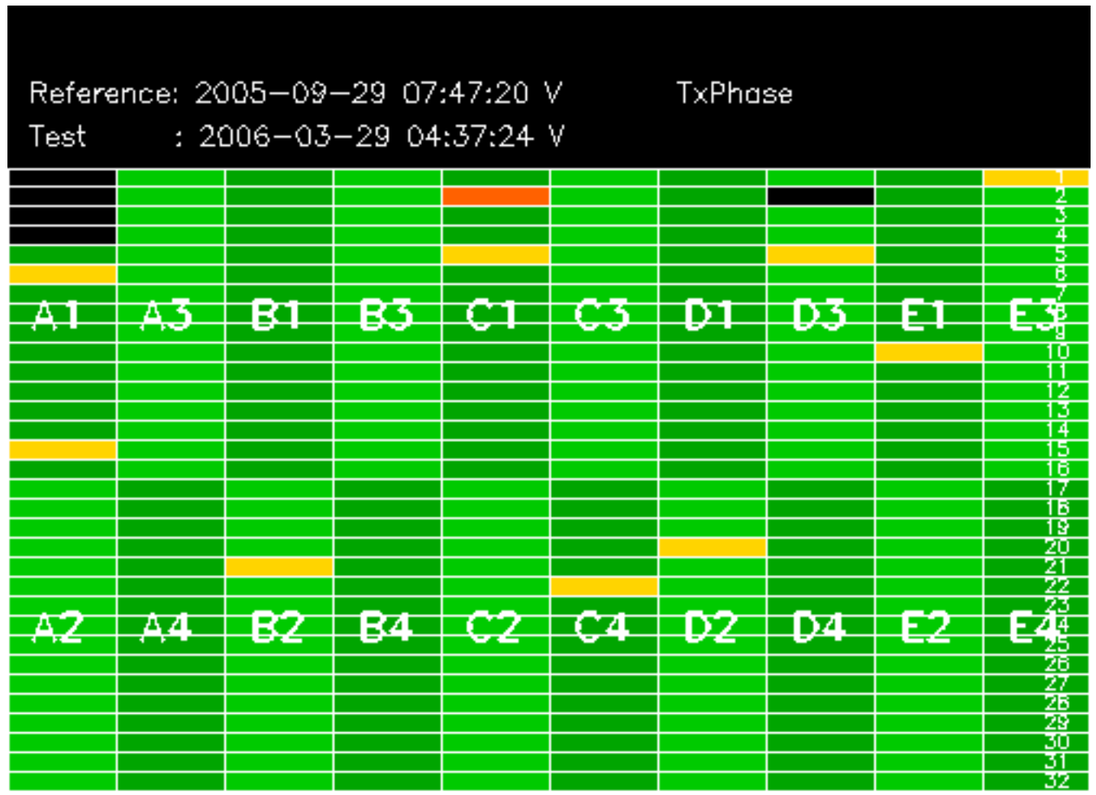
Reference: 2005-09-29 07:47:20 V
TxPhase
Test : 2006-03-29 04:37:24 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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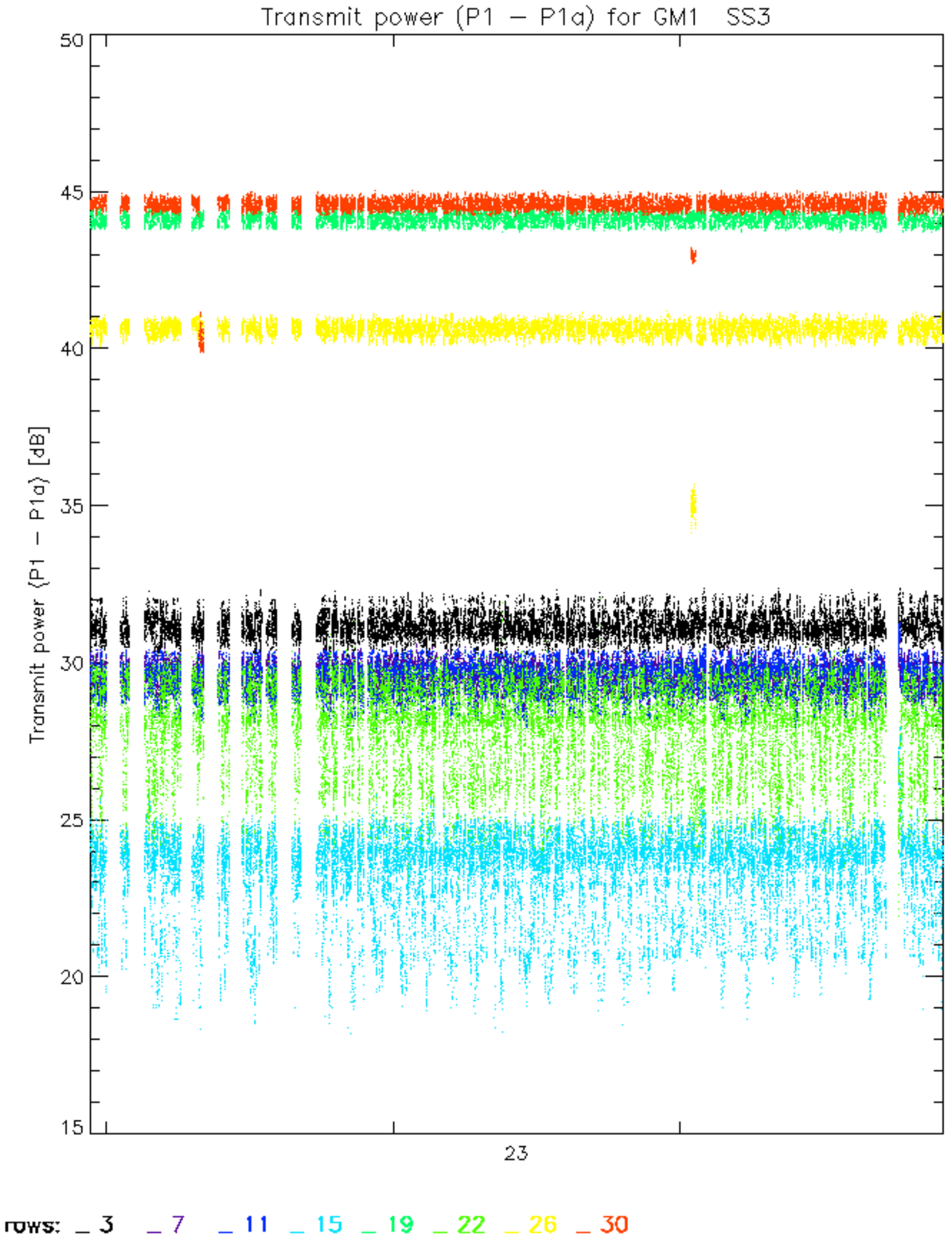
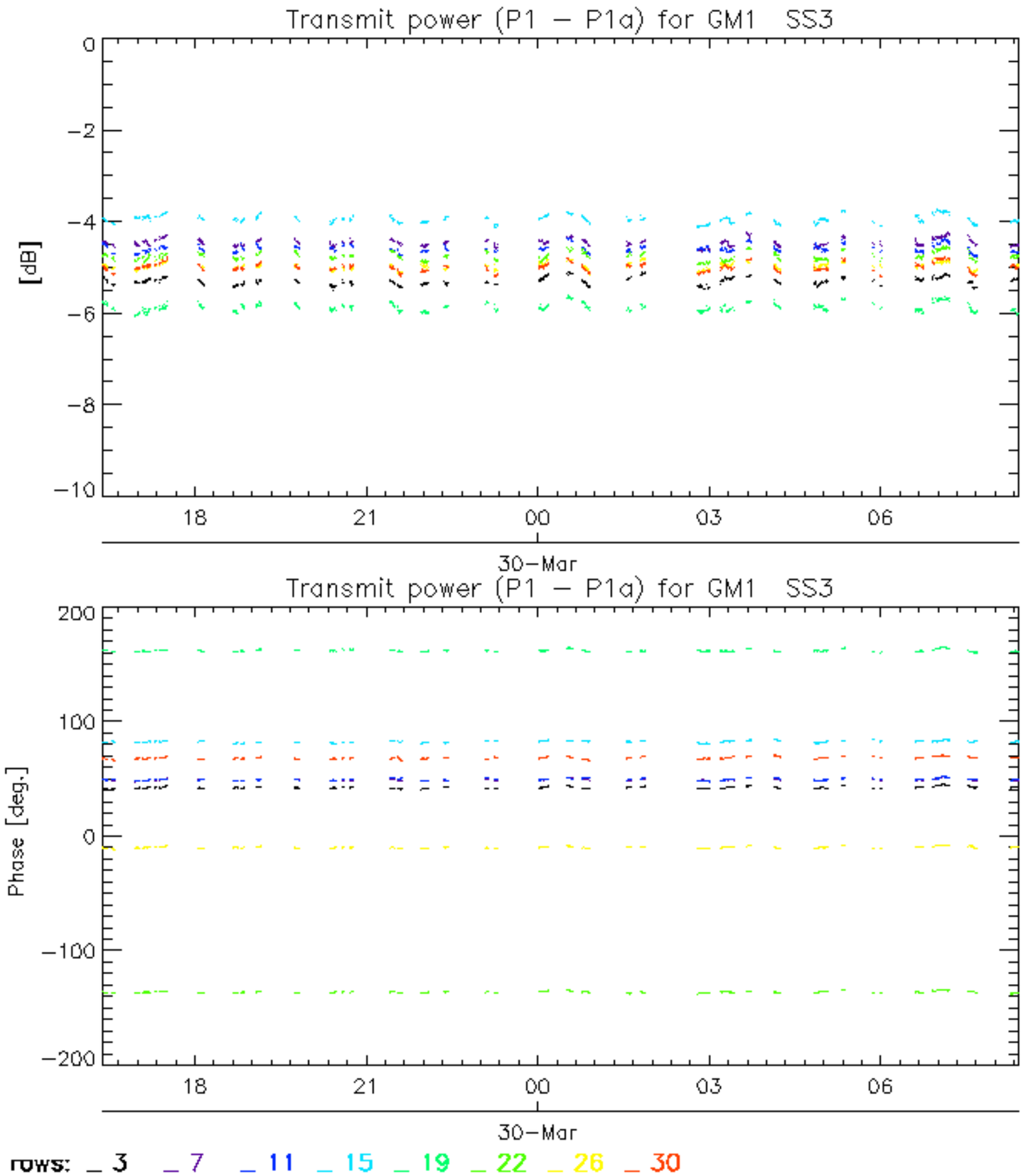
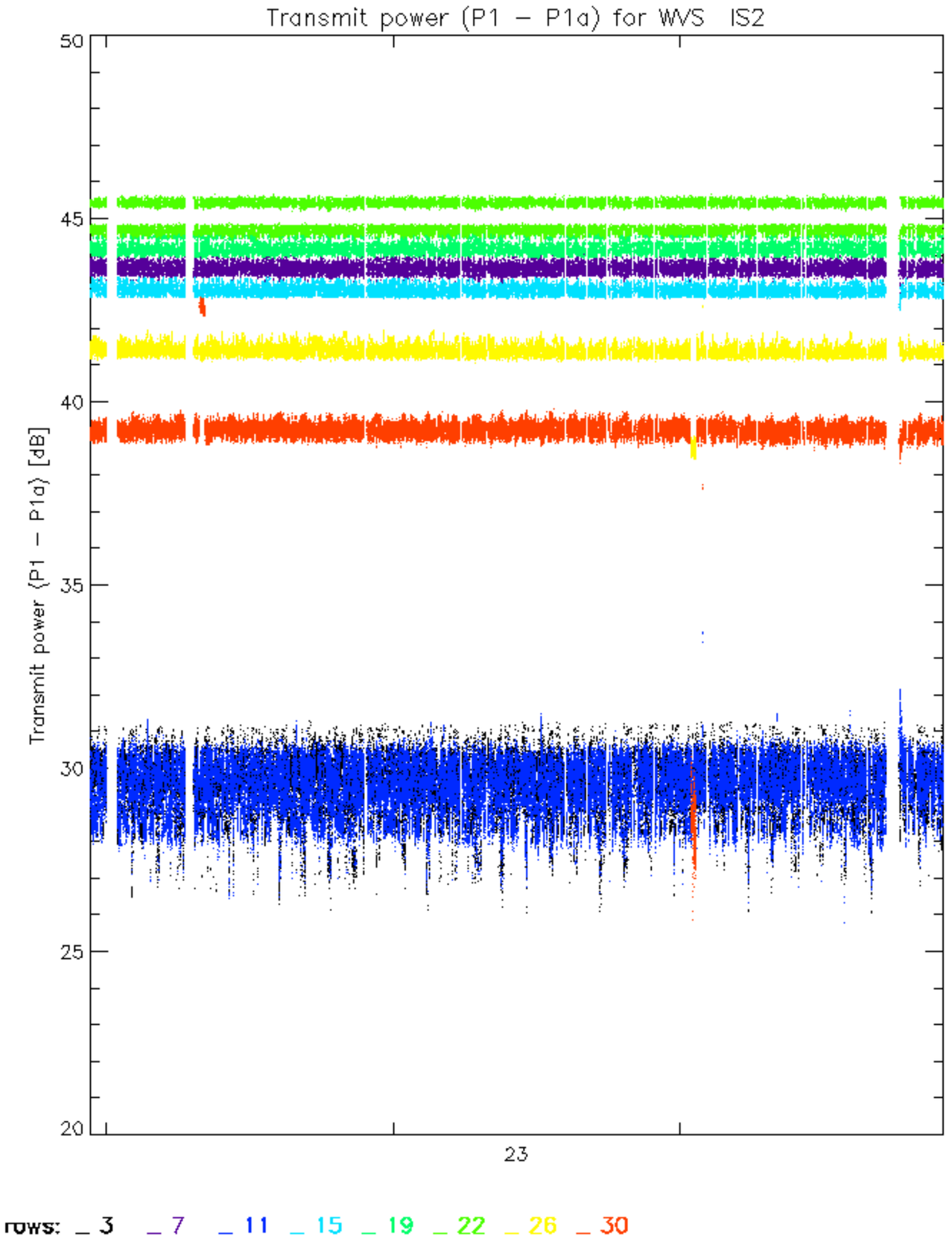
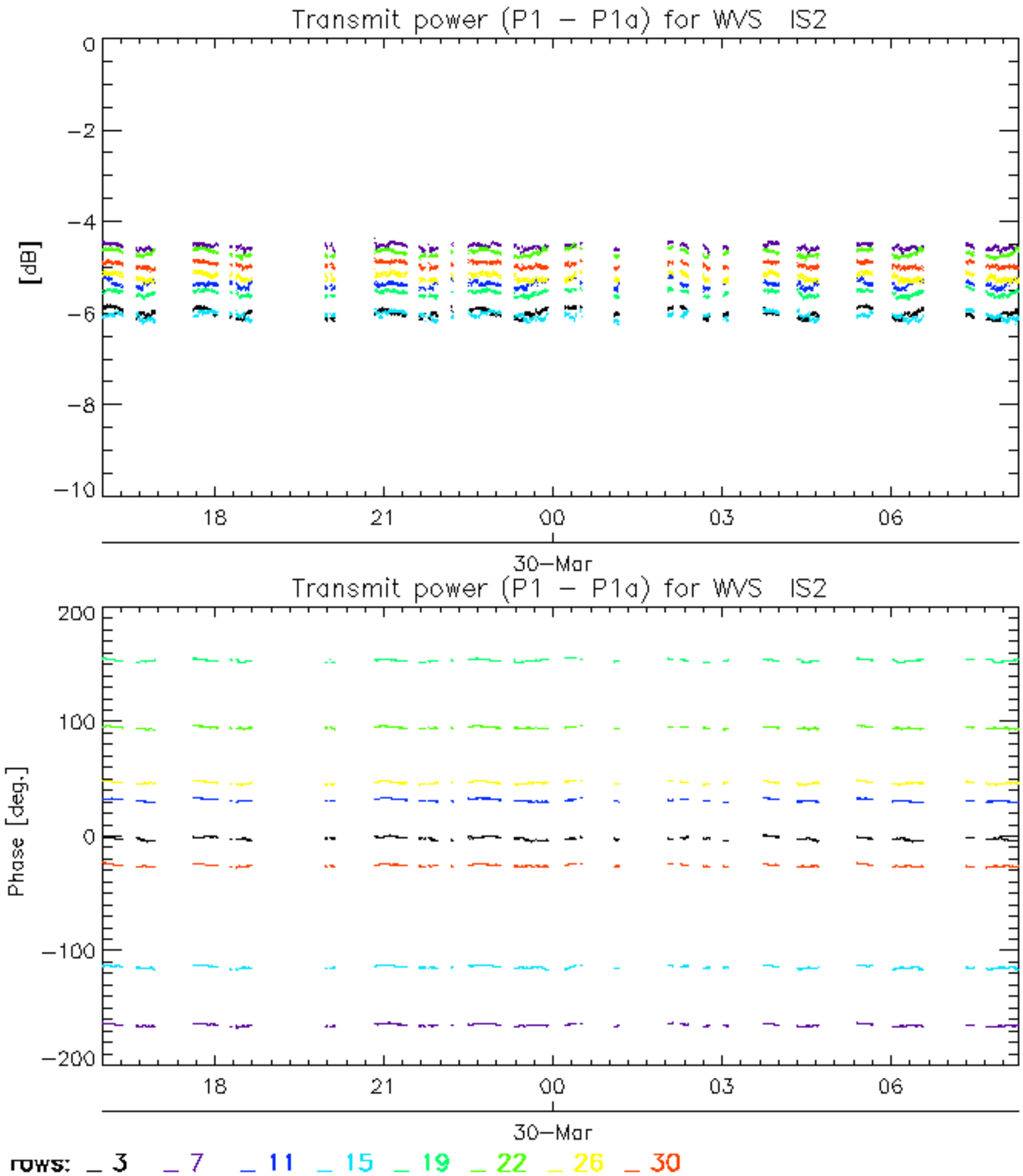

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
45
40
35
30
25
20
15
23
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
30−Mar
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
30−Mar
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
23
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
30–Mar
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
30–Mar
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.