PRELIMINARY REPORT OF 060328

last update on Tue Mar 28 16:44:32 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 2006-03-27 00:00:00 to 2006-03-28 16:44:32

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	20060325 064353
H	20060326 061216

MSM in V/V polarisation

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

MSM in H/H polarisation

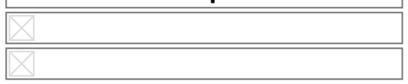
Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

4.1.1 - Evolution for WVS

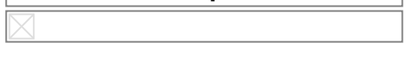
Evolution of cal pulses for WVS


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	-4.001176	0.009123	0.008583
7	P1	-3.013453	0.008475	-0.021775
11	P1	-4.059324	0.018102	-0.010653
15	P1	-6.097416	0.020067	-0.055379
19	P1	-3.303520	0.006475	-0.046152
22	P1	-4.463439	0.014206	-0.025619
26	P1	-4.173111	0.114459	0.268388
30	P1	-5.784202	0.173325	0.184035
3	P1	-16.964939	0.256801	0.081313
7	P1	-16.750723	0.102200	-0.104103
11	P1	-16.474442	0.308672	0.032922
15	P1	-13.054842	0.093437	-0.024686
19	P1	-13.962567	0.050201	-0.093684
22	P1	-15.591927	0.458898	-0.094757
26	P1	-15.747046	0.358291	-0.028056
30	P1	-16.513603	0.317606	-0.158638

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.374876	0.086824	0.070536
7	P2	-22.341642	0.096380	0.132655
11	P2	-16.215012	0.100707	0.037313
15	P2	-7.166296	0.097517	-0.011735
19	P2	-9.135147	0.089589	-0.025750
22	P2	-17.957788	0.087917	-0.074636
26	P2	-16.224104	0.093747	-0.075463
30	P2	-19.652668	0.084024	-0.011915

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.195725	0.005528	-0.001934
7	P3	-8.195725	0.005528	-0.001934
11	P3	-8.195725	0.005528	-0.001934
15	P3	-8.195725	0.005528	-0.001934
19	P3	-8.195725	0.005528	-0.001934
22	P3	-8.195725	0.005528	-0.001934

26	P3	-8.195725	0.005528	-0.001934
30	P3	-8.195725	0.005528	-0.001931

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	-3.828815	2.490879	0.419913
7	P1	-2.805329	2.616152	0.480319
11	P1	-3.007195	2.634174	0.479569
15	P1	-3.652705	2.611175	0.516658
19	P1	-3.451165	2.529281	0.435438
22	P1	-5.251814	2.325936	0.403732
26	P1	-5.903667	2.494998	0.786721
30	P1	-5.251488	2.364434	0.518017
3	P1	-11.639522	1.642402	0.304266
7	P1	-10.030011	1.820128	0.339574
11	P1	-10.337232	1.813443	0.356461
15	P1	-10.887476	1.830683	0.349273
19	P1	-15.446894	1.353713	0.287875
22	P1	-20.324587	2.024048	0.066377
26	P1	-16.265242	1.835393	0.076070
30	P1	-18.314293	1.574246	0.323293

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.066675	1.727773	0.088492
7	P2	-22.517822	2.030486	-0.081474

11	P2	-11.252482	1.875094	0.213873
15	P2	-4.897457	2.434865	0.407467
19	P2	-6.904809	2.191180	0.374098
22	P2	-8.199206	2.054641	0.324116
26	P2	-23.920317	2.071574	-0.342891
30	P2	-22.043276	1.952479	-0.204536

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.022762	0.002334	0.005802
7	P3	-8.022703	0.002331	0.006166
11	P3	-8.022698	0.002346	0.006019
15	P3	-8.022807	0.002336	0.006445
19	P3	-8.022748	0.002339	0.005972
22	P3	-8.022852	0.002333	0.006284
26	P3	-8.022826	0.002331	0.005964
30	P3	-8.022686	0.002341	0.005908

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	0.000567855
	stdev	1.68355e-07
MEAN Q	mean	0.000525547

stdev	2.16856e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.139247
	stdev	0.00116927
STDEV Q	mean	0.139620
	stdev	0.00118814

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006032[678]
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_1PNPDE20060328_003704_000001362046_00202_21298_1625.N1	1	0
ASA_WSM_1PNPDE20060327_001933_000002262046_00188_21284_2752.N1	0	35
ASA_WSM_1PNPDE20060327_065041_000000672046_00192_21288_2792.N1	0	7
ASA_WSM_1PNPDE20060327_162329_000002082046_00198_21294_2814.N1	0	49

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

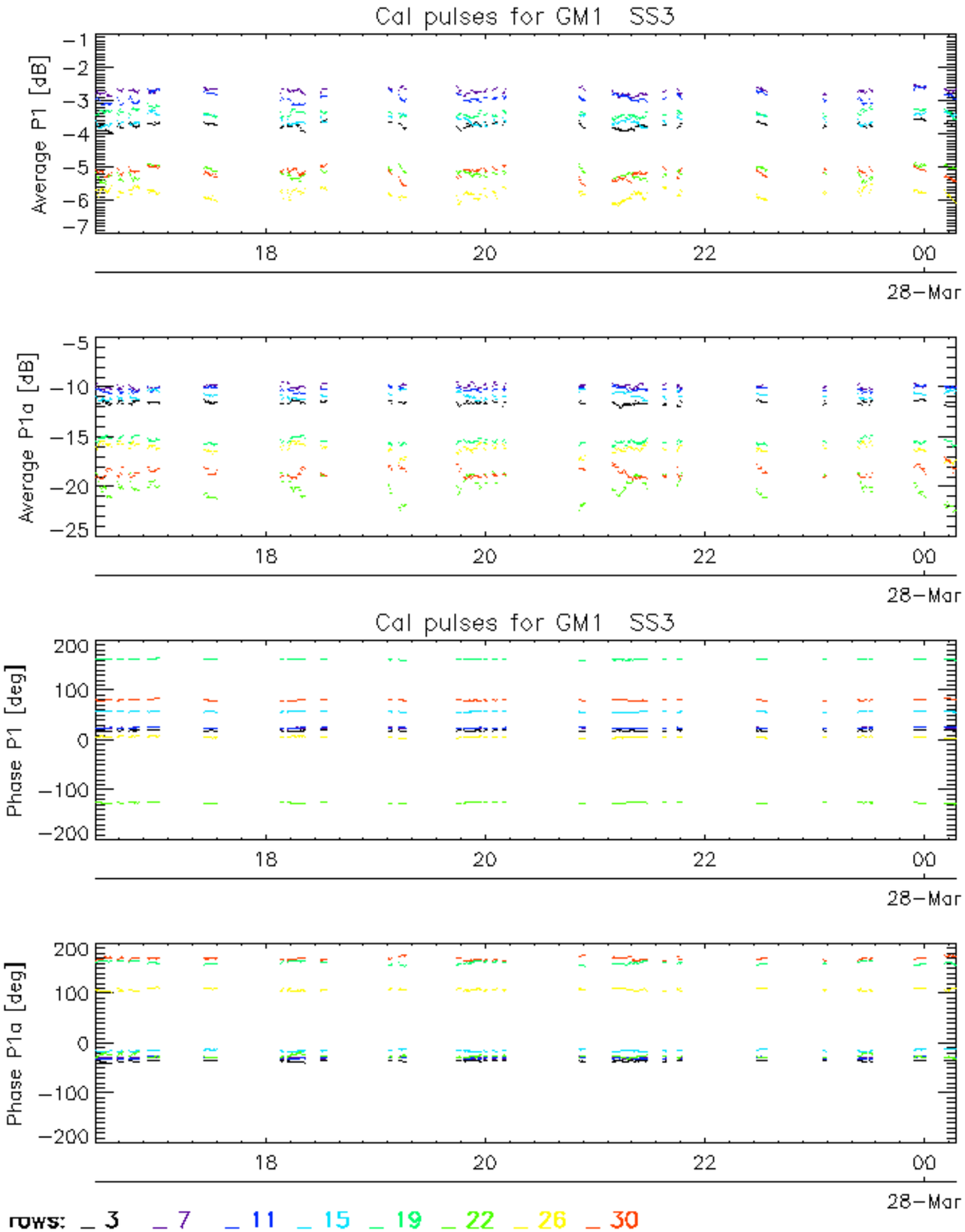
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

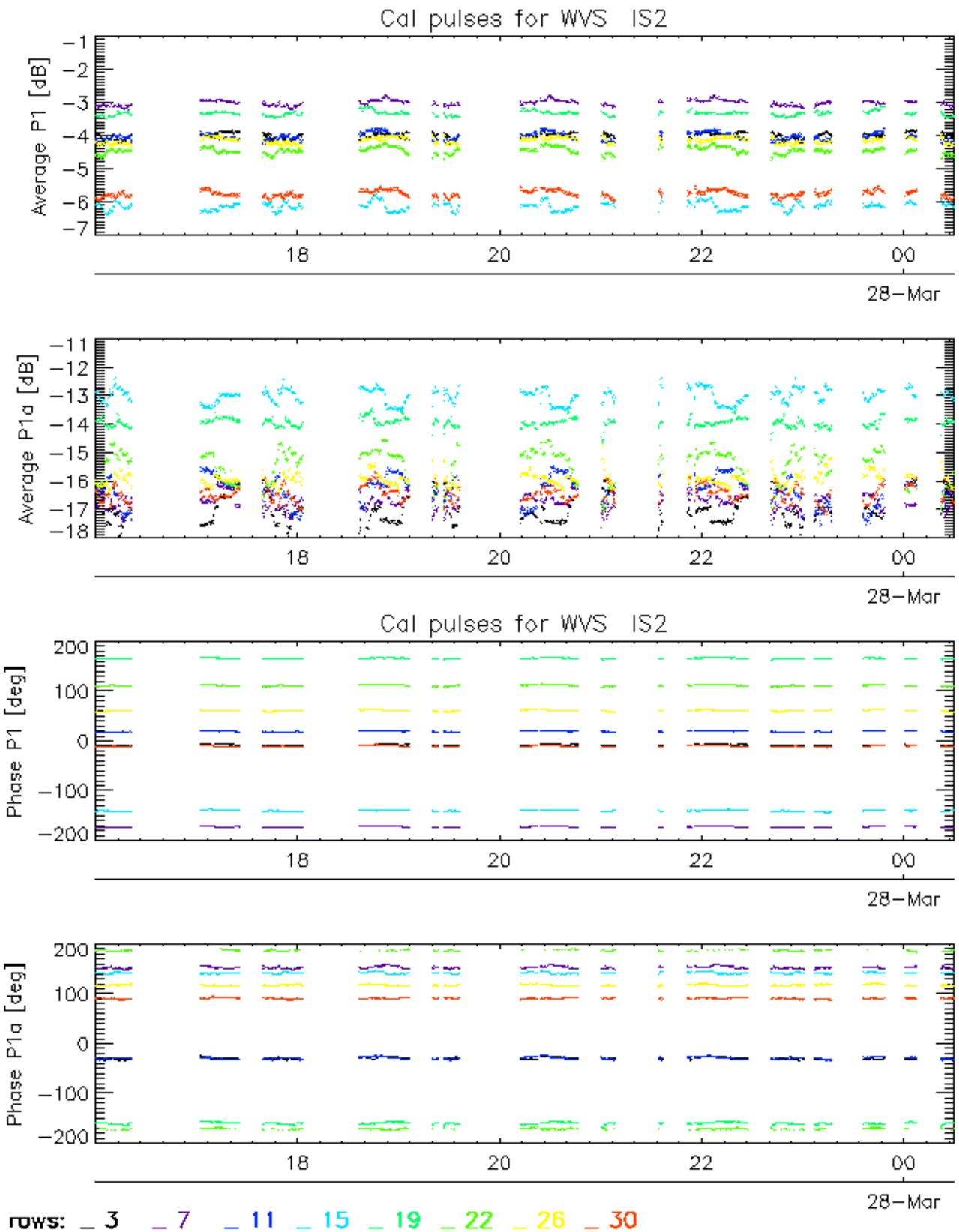
7.5 - Absolute Doppler for GM1

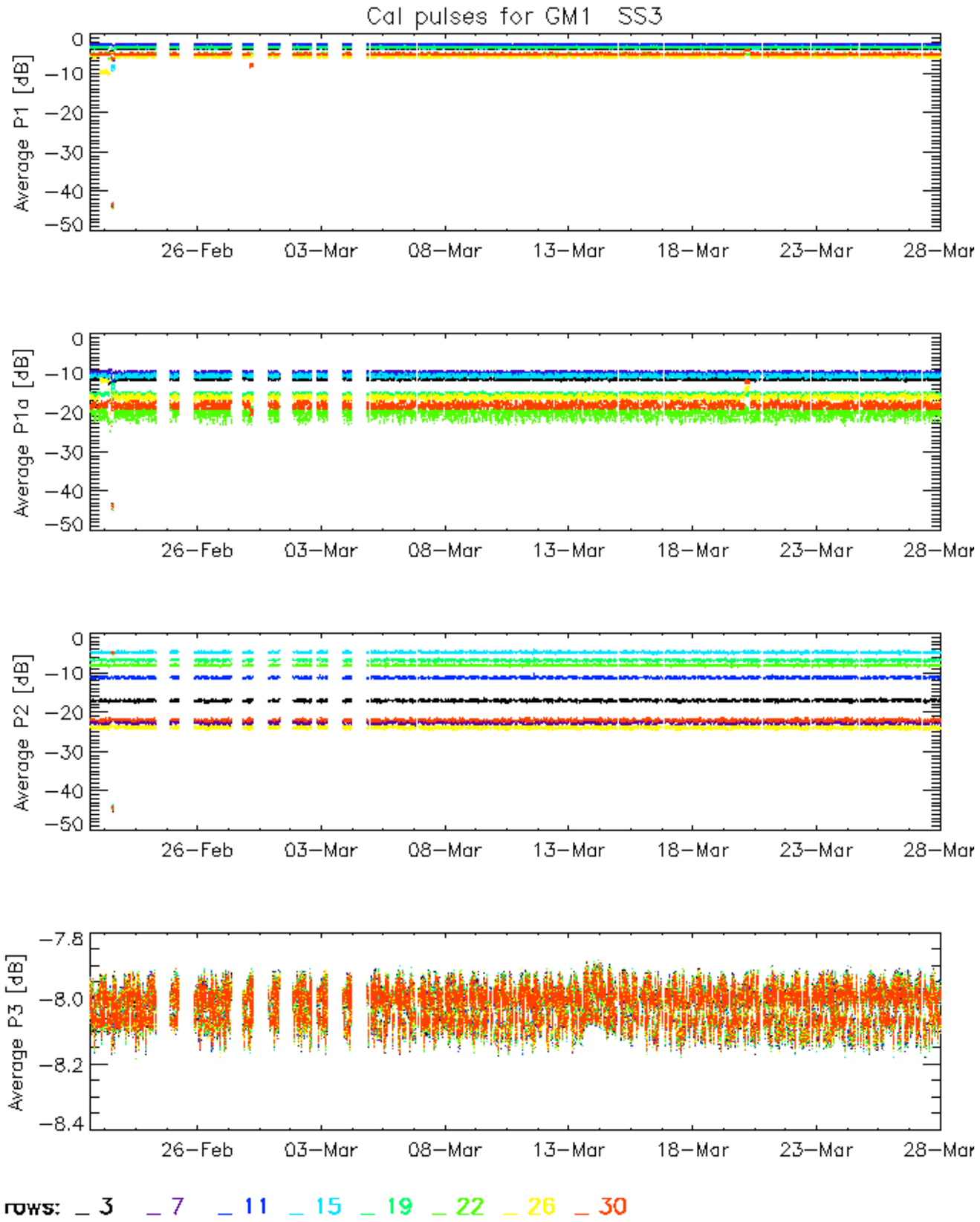
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

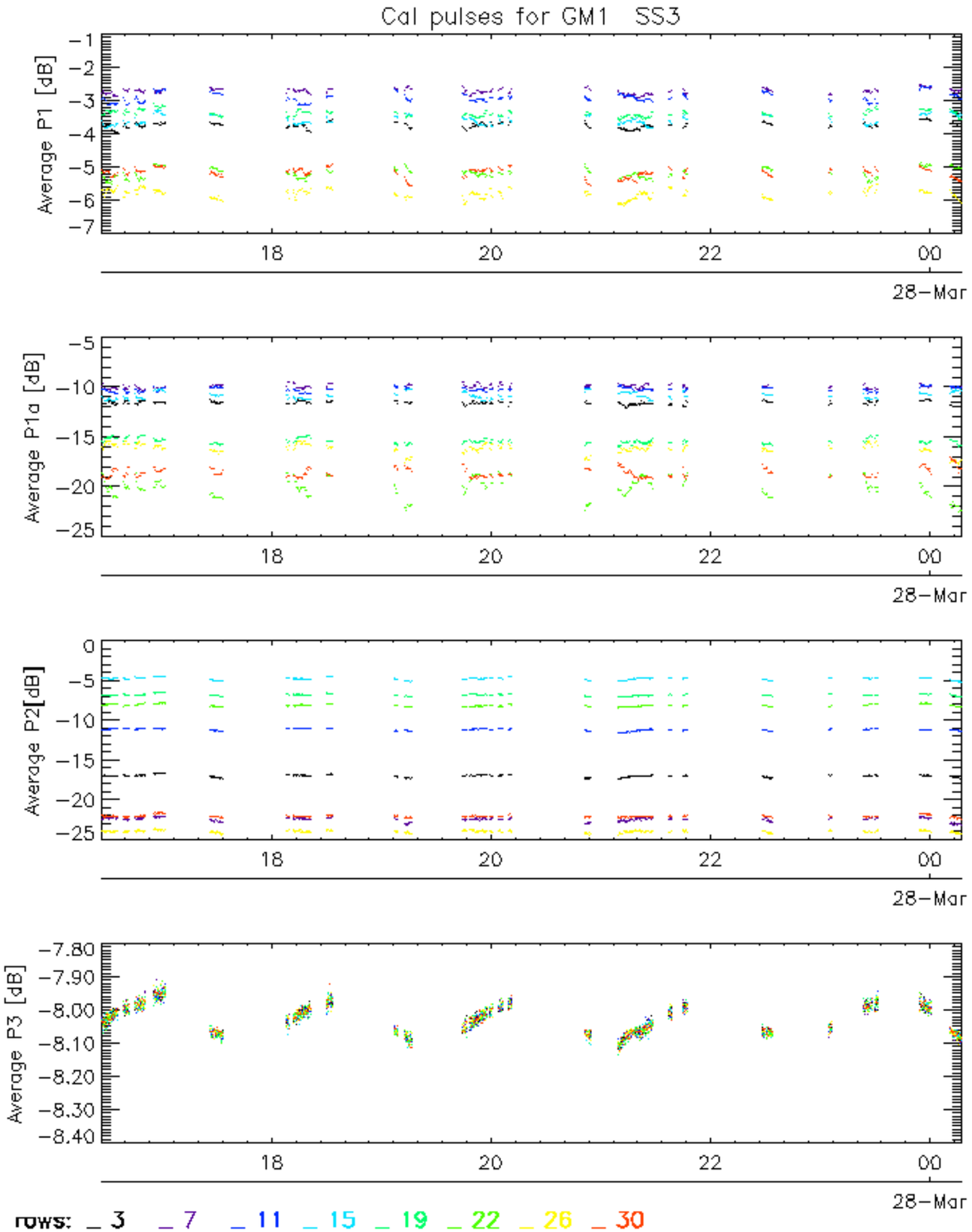
7.6 - Doppler evolution versus ANX for GM1

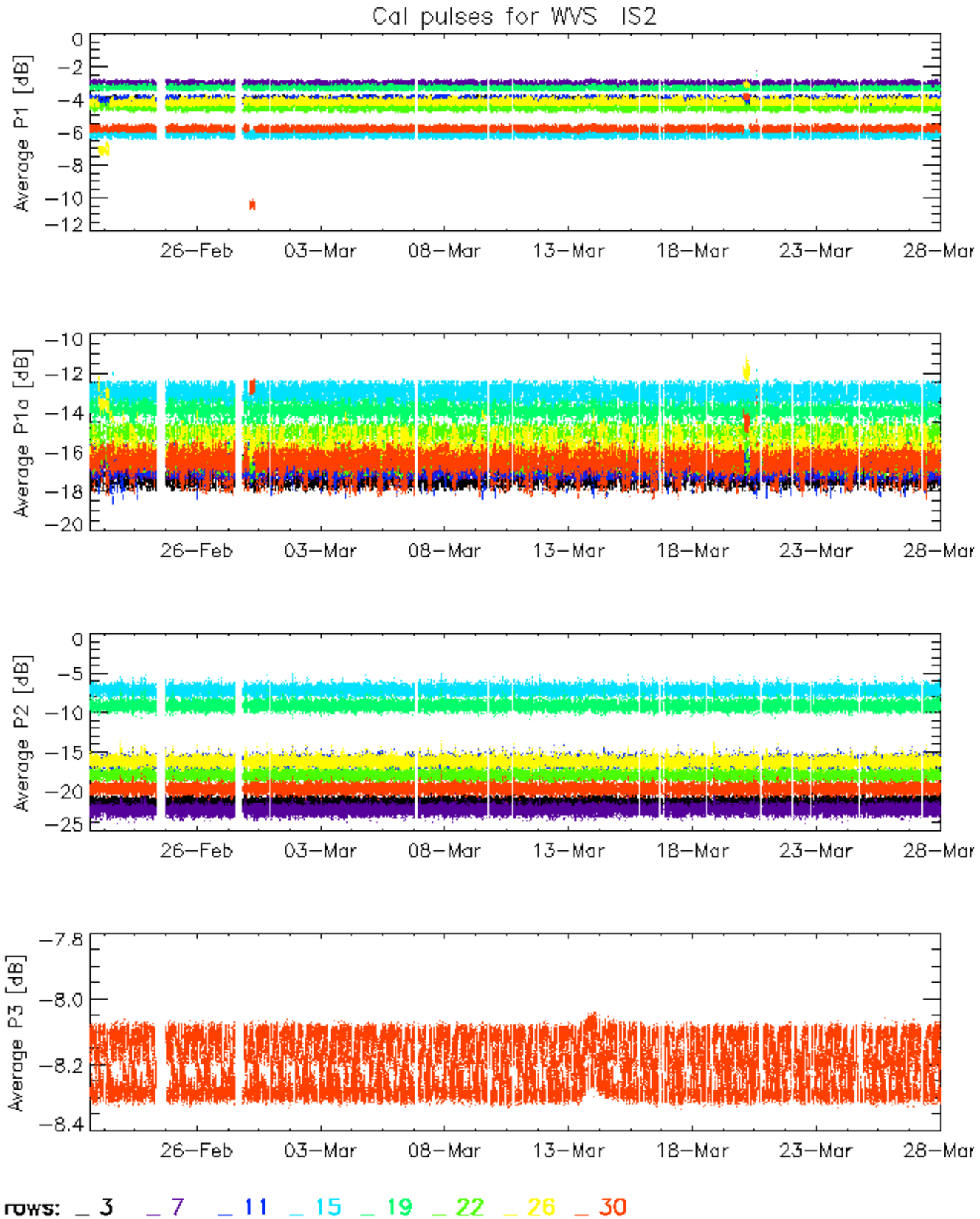
Evolution Doppler error versus ANX
☒

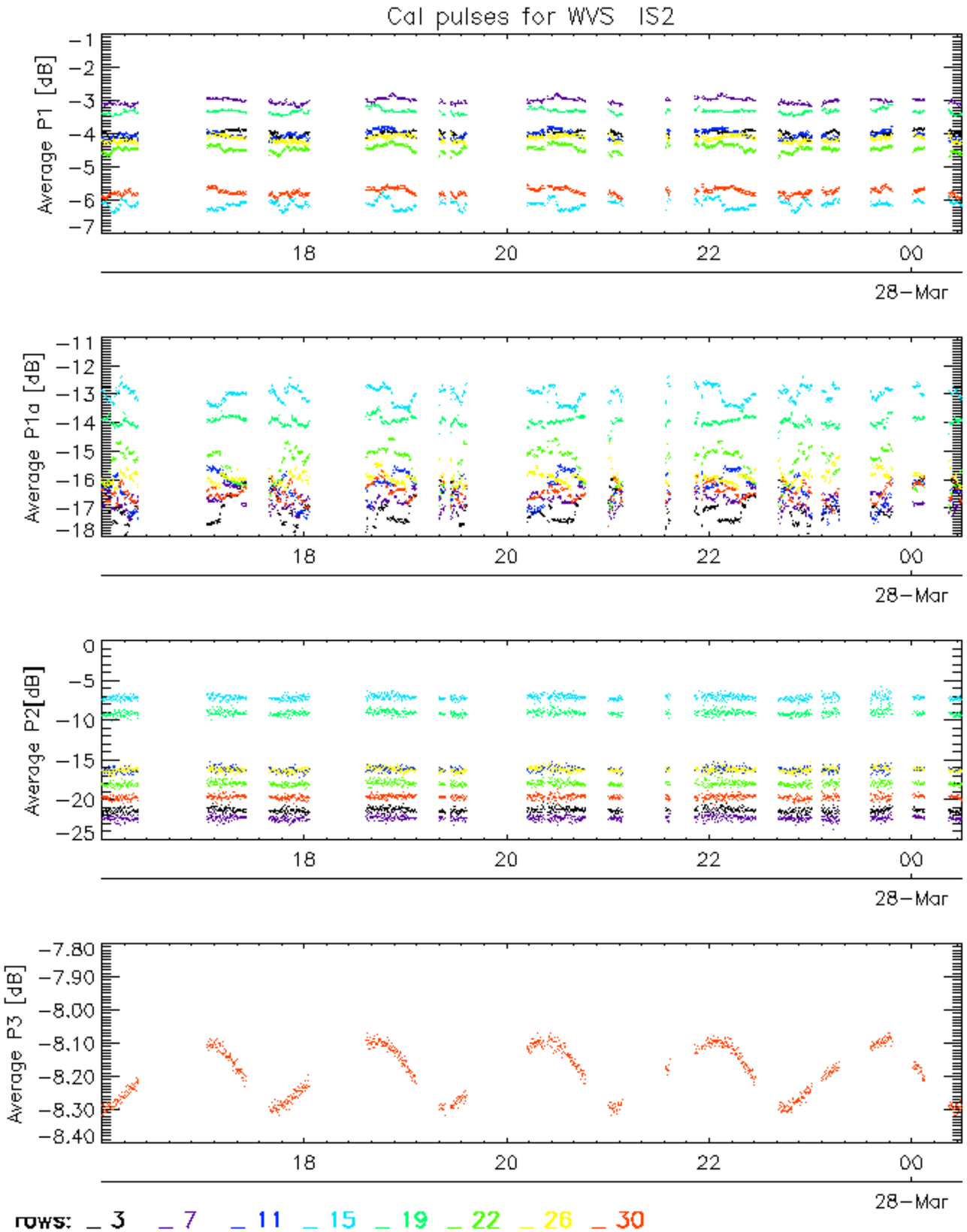

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
20
22
00
28−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
18
20
22
00
28−Mar
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
20
22
00
28−Mar
Phase P1a [deg]
200
100
0
−100
−200
18
20
22
00
28−Mar
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
20
22
00
28−Mar
Average P1a [dB]
−11
−12
−13
−14
−15
−16
−17
−18
18
20
22
00
28−Mar
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
20
22
00
28−Mar
Phase P1a [deg]
200
100
0
−100
−200
18
20
22
00
28−Mar
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for GM1 SS3
Average P1 [dB]
0
−10
−20
−30
−40
−50
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar
23−Mar
28−Mar
Average P1a [dB]
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30

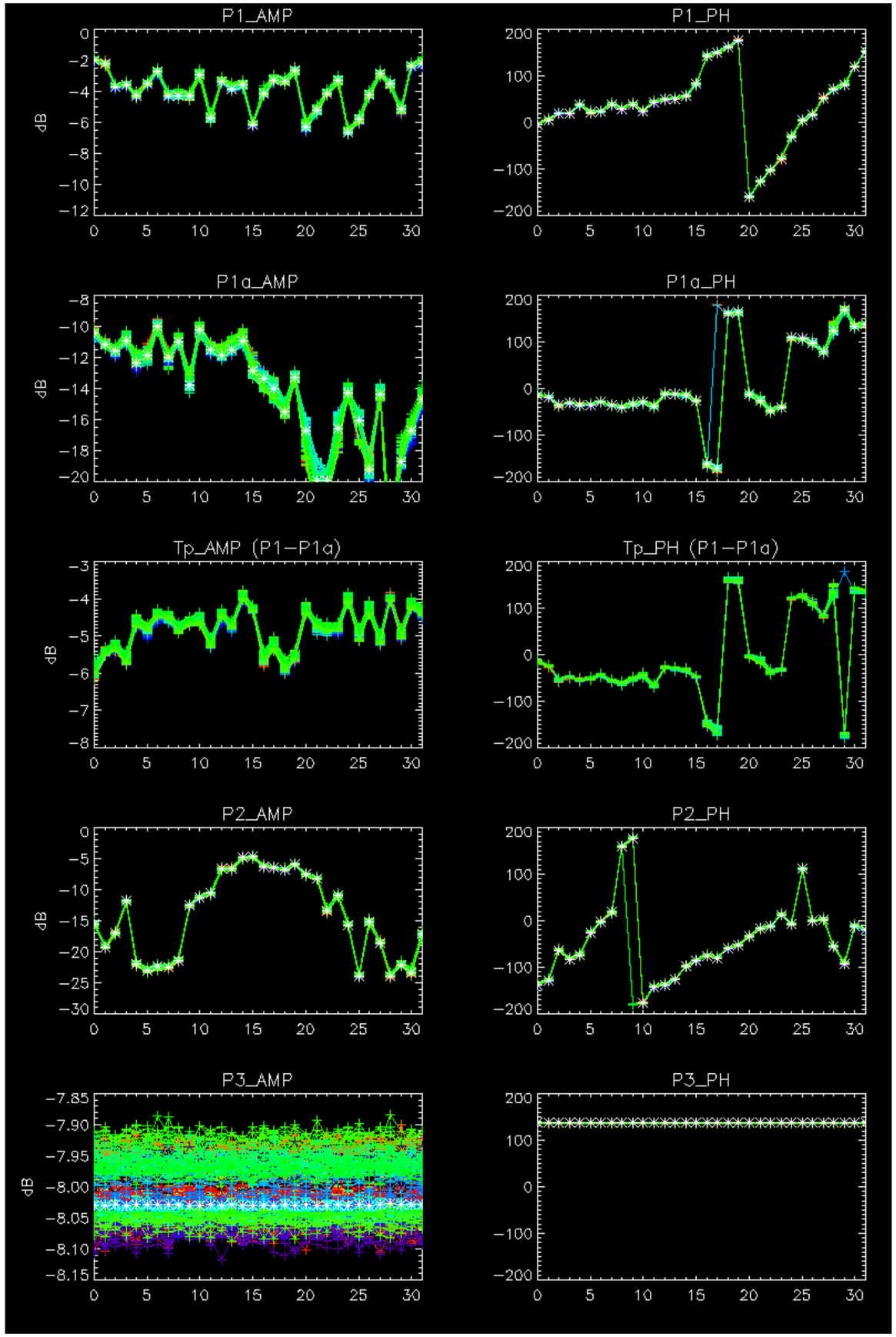

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
20
22
00
28−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
18
20
22
00
28−Mar
Average P2[dB]
0
−5
−10
−15
−20
−25
18
20
22
00
28−Mar
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
20
22
00
28−Mar
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _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

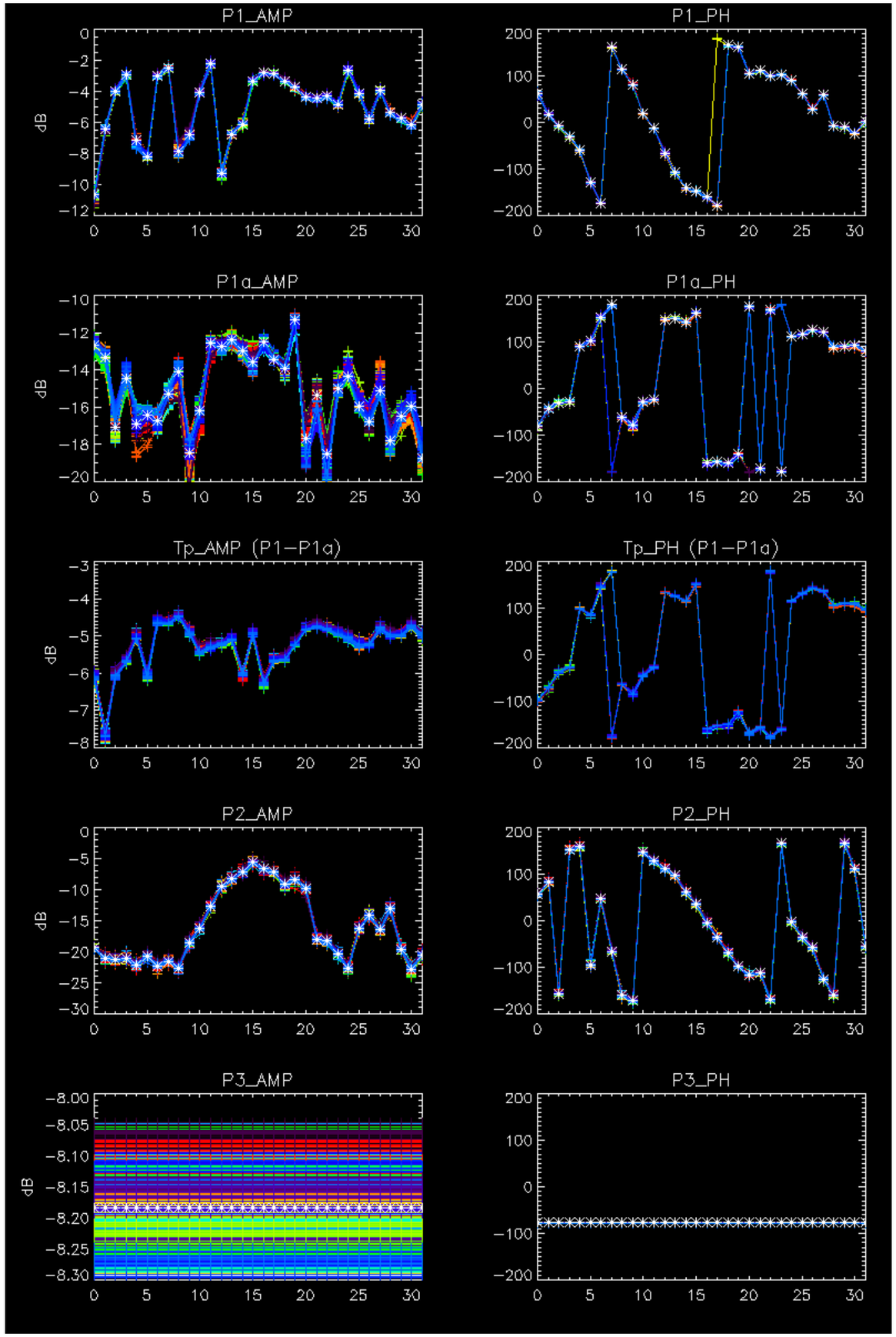

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar
23−Mar
28−Mar
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
20
22
00
28−Mar
Average P1a [dB]
−11
−12
−13
−14
−15
−16
−17
−18
18
20
22
00
28−Mar
Average P2[dB]
0
−5
−10
−15
−20
−25
18
20
22
00
28−Mar
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
20
22
00
28−Mar
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

No anomalies observed on available browse products

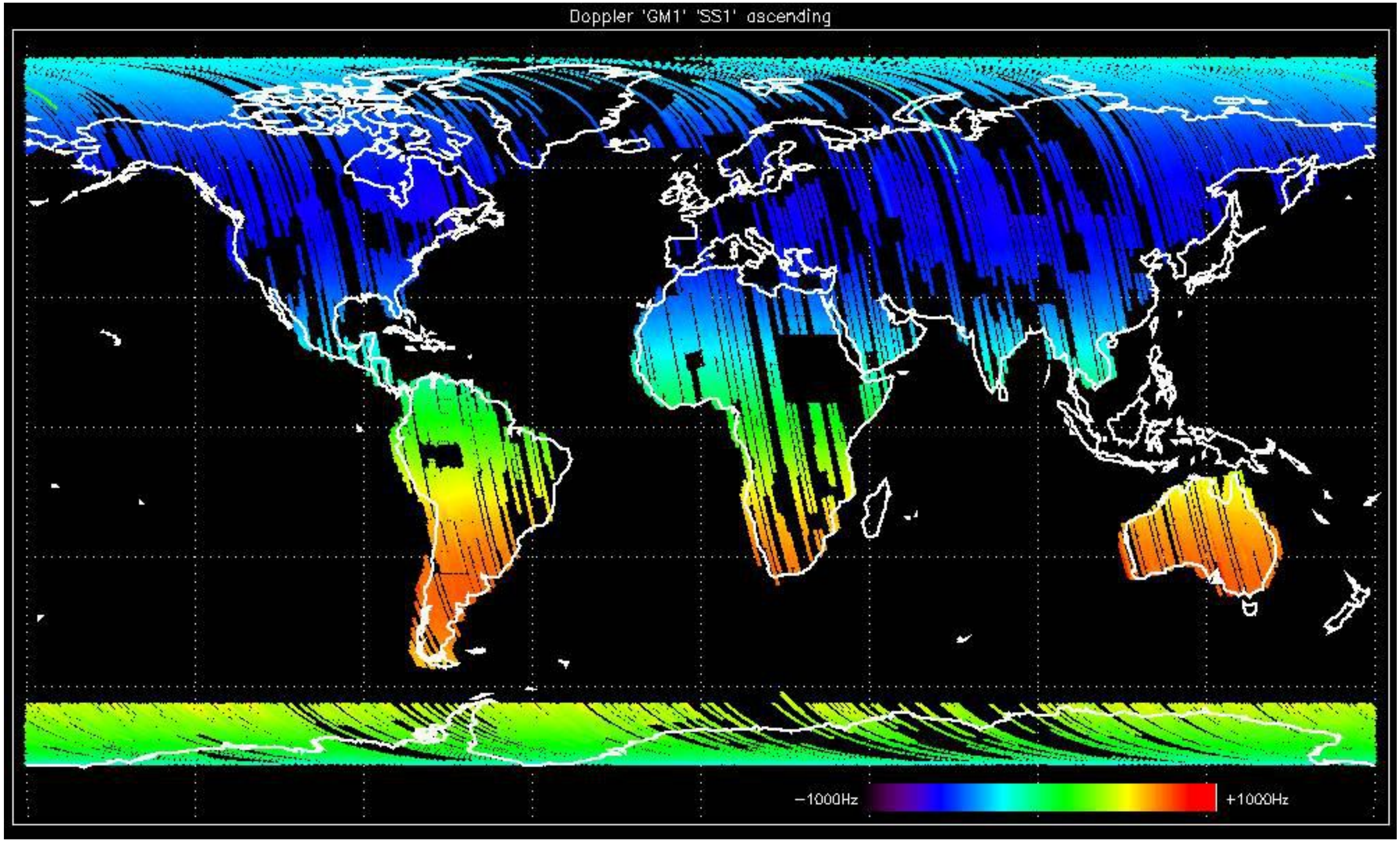
No anomalies observed.

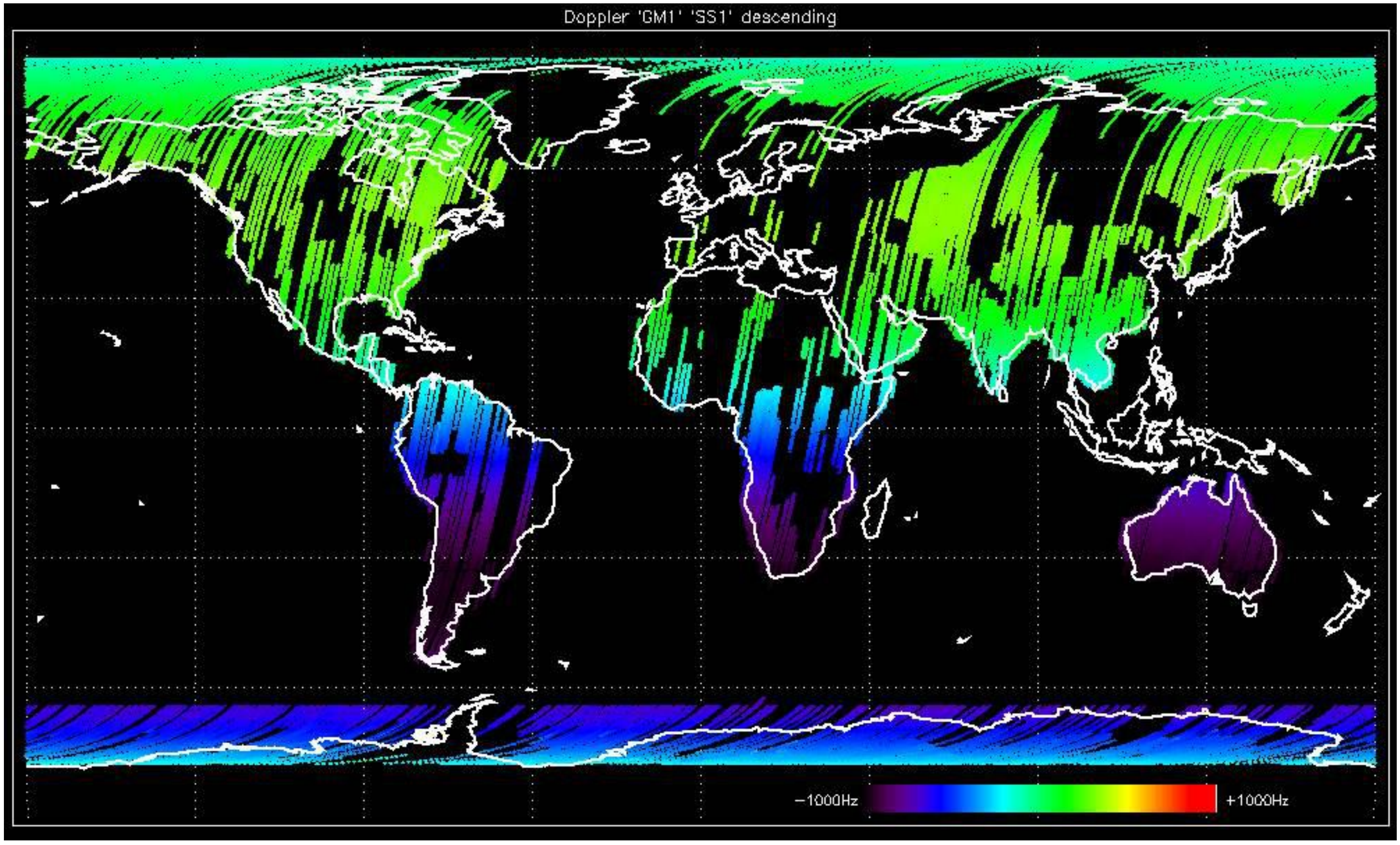

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

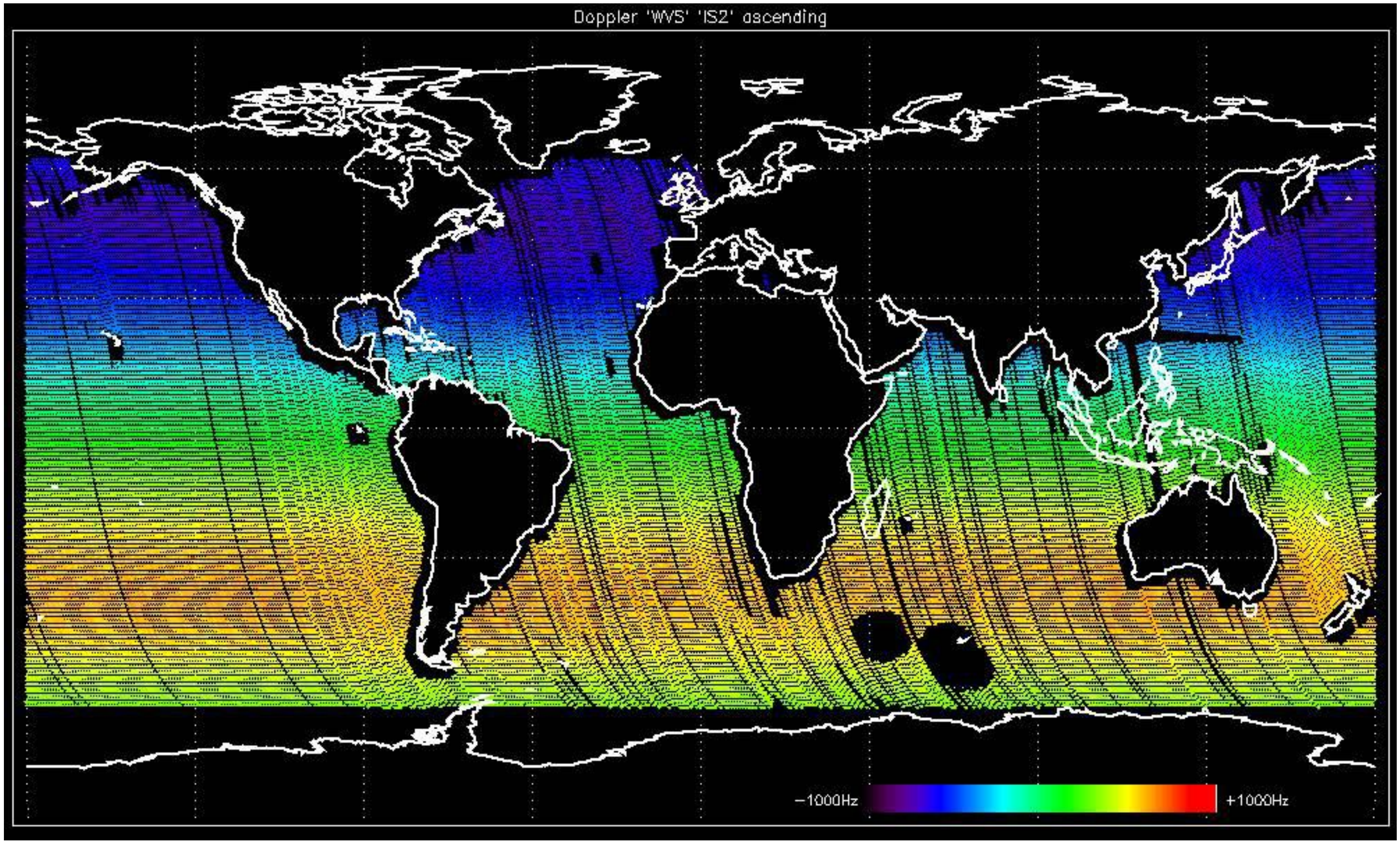

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

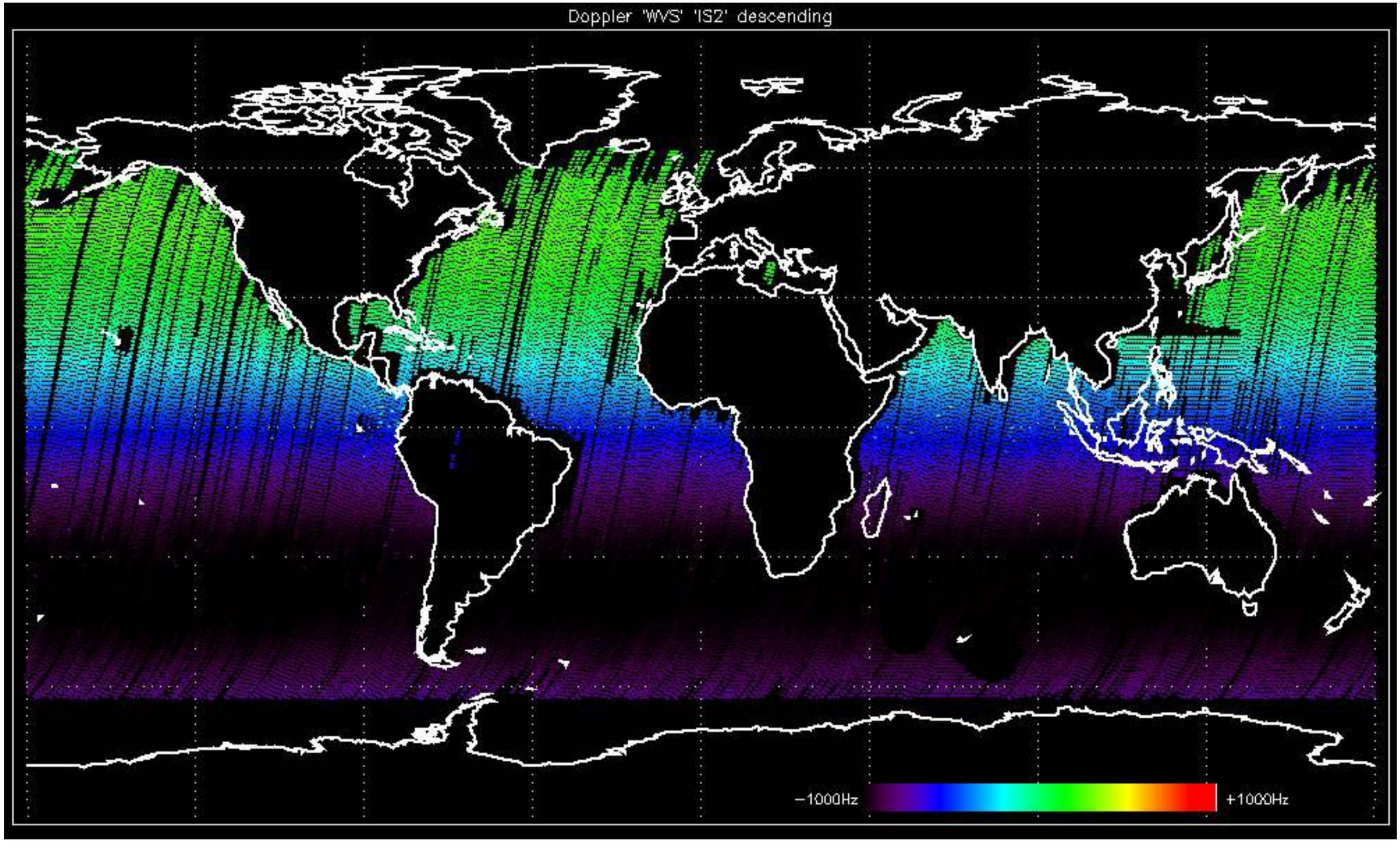
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

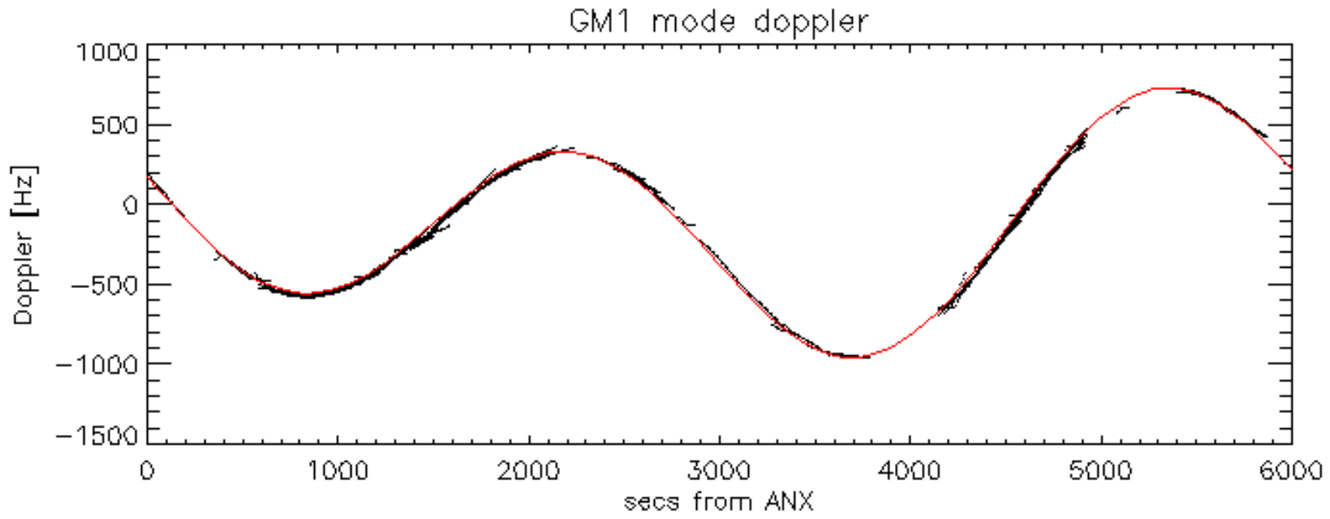
Preliminary report.The data is not yet controled

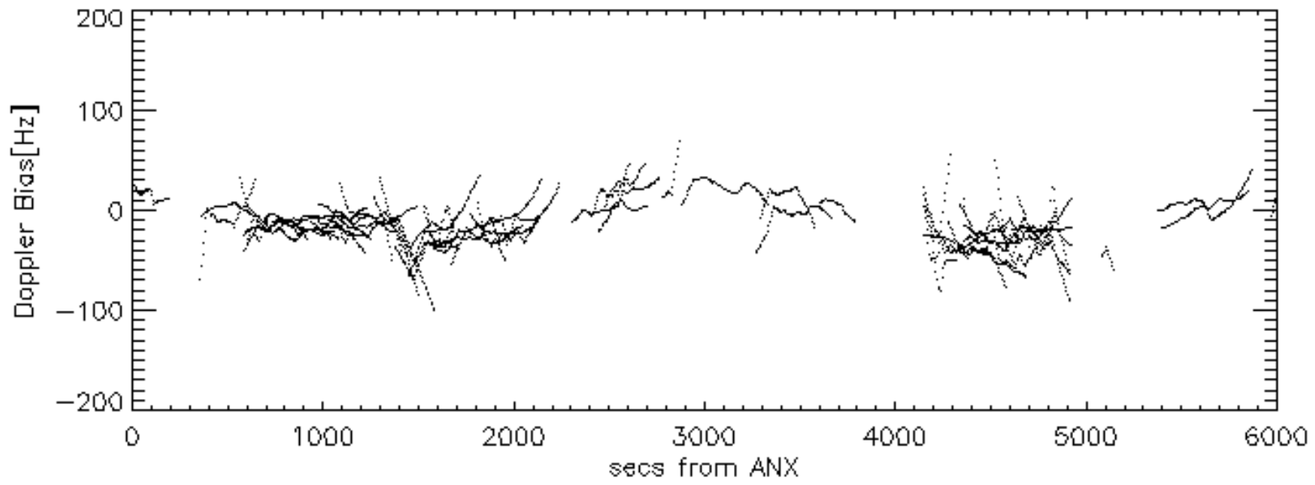

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

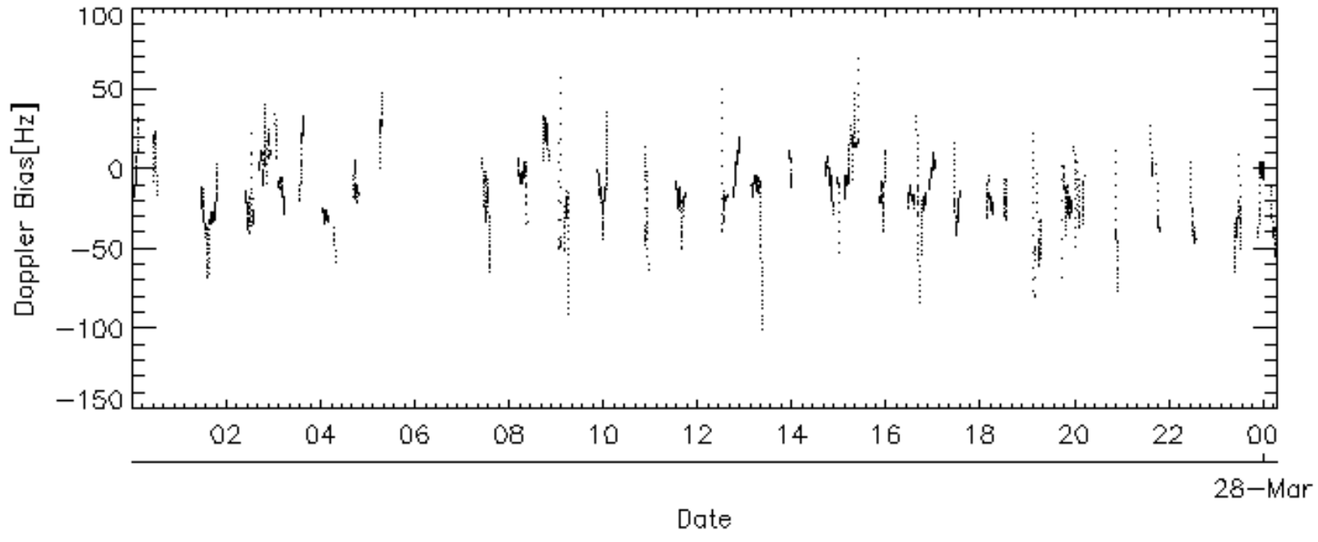

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

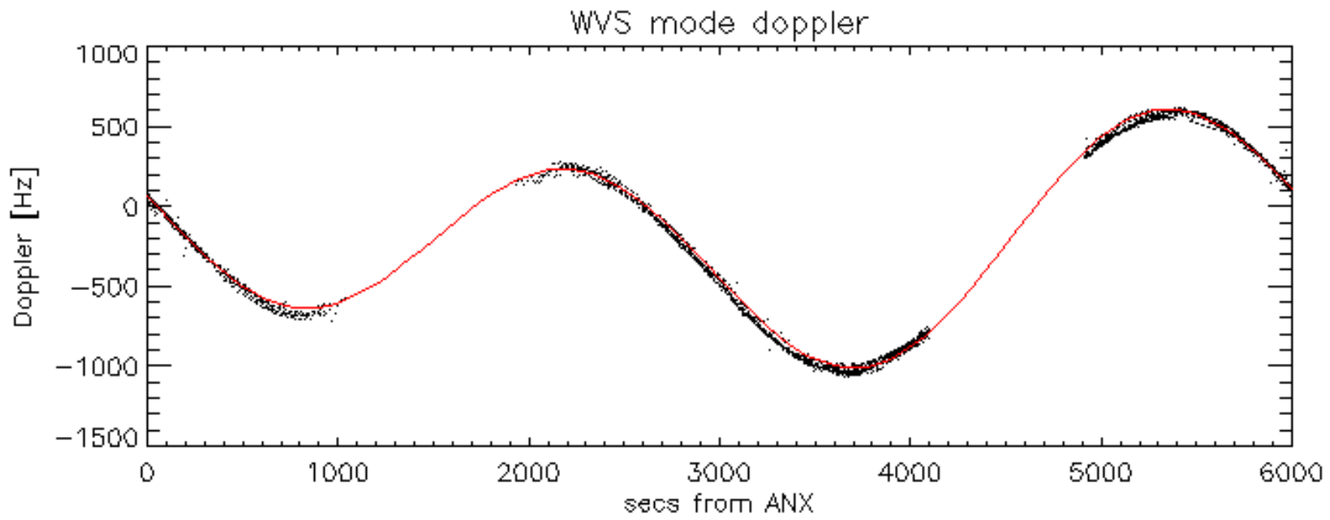

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

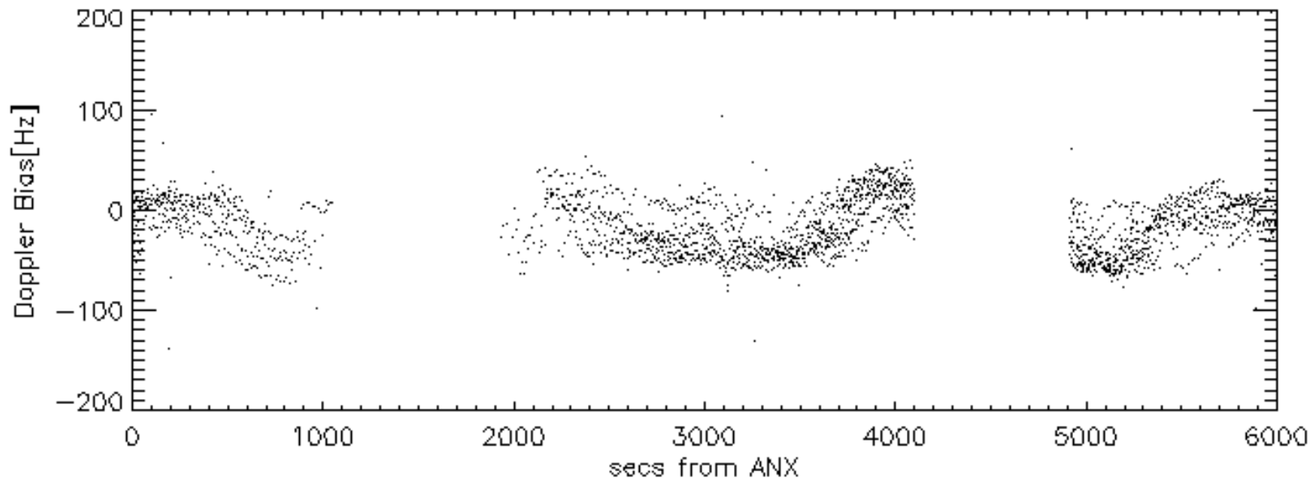

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

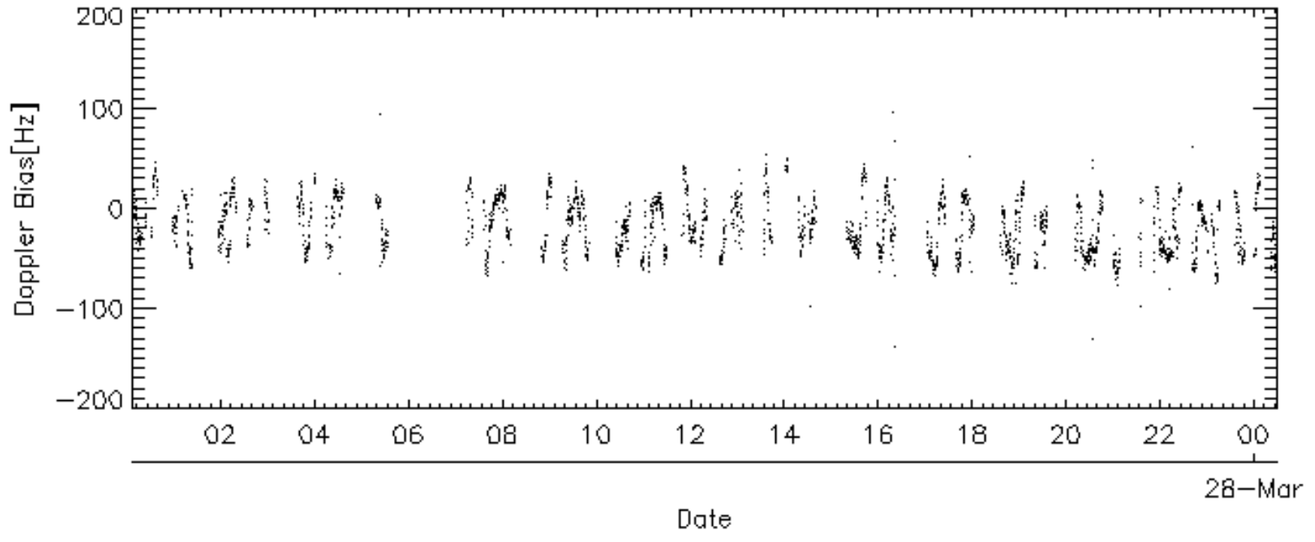

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

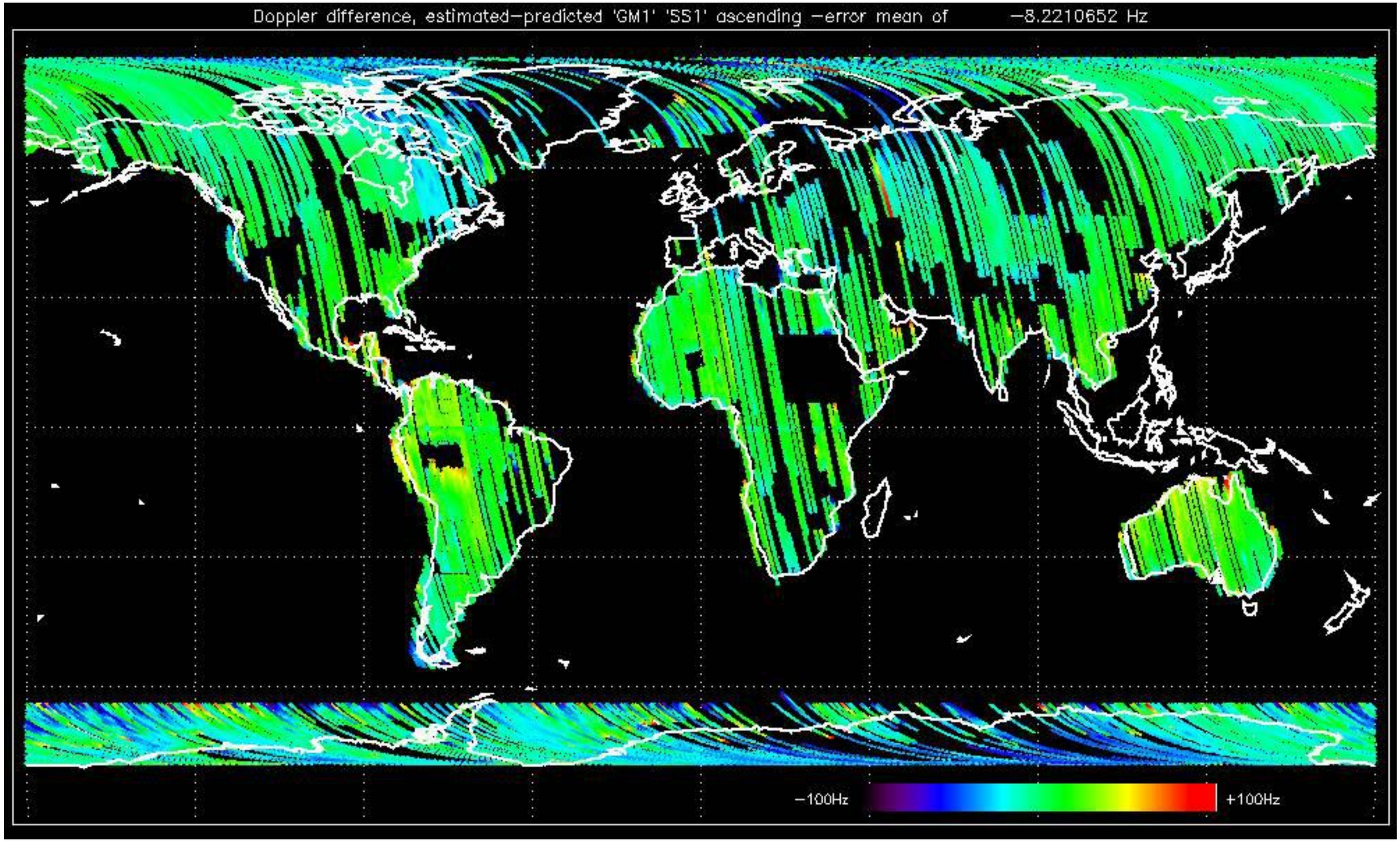

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

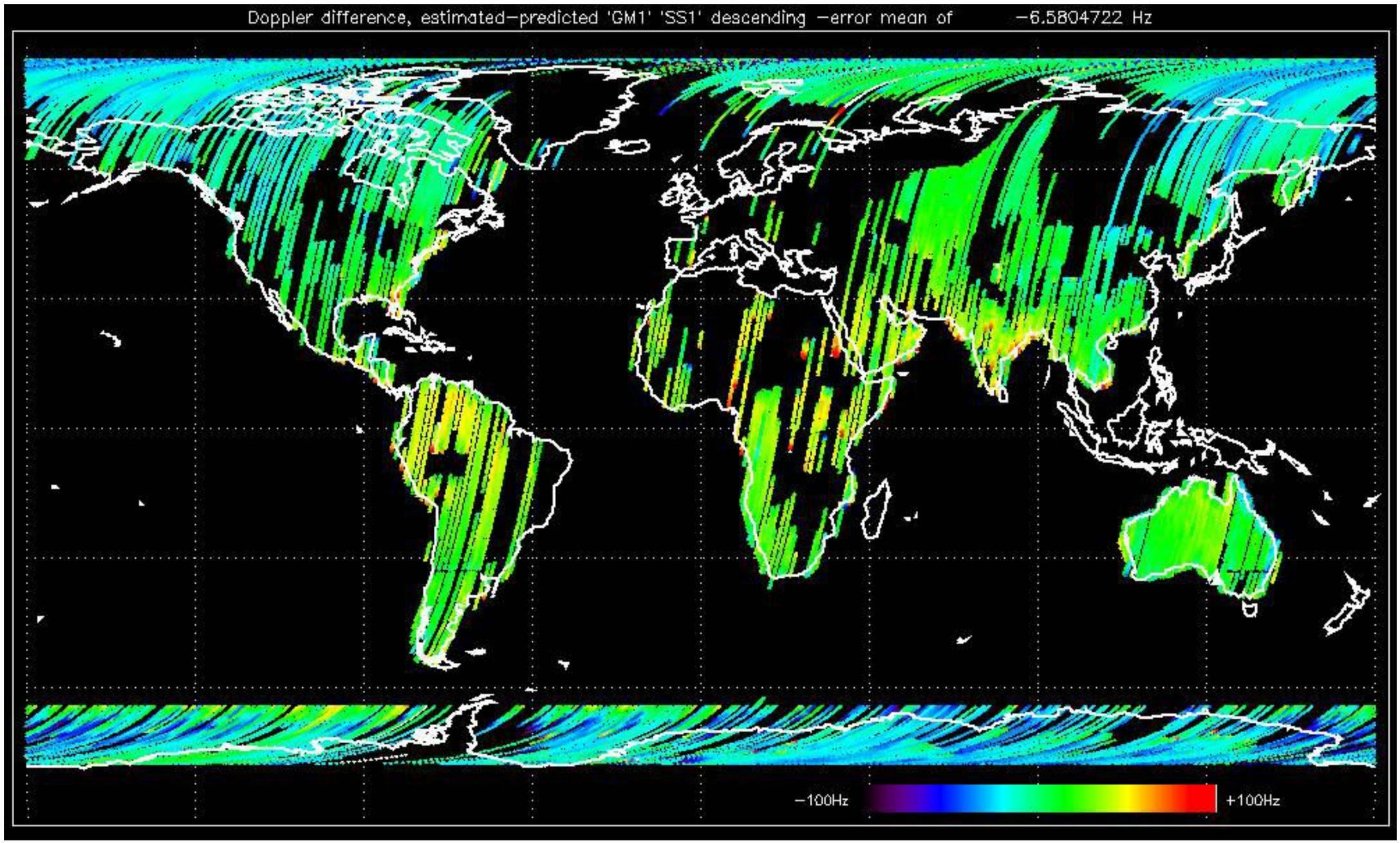

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
28−Mar
Date

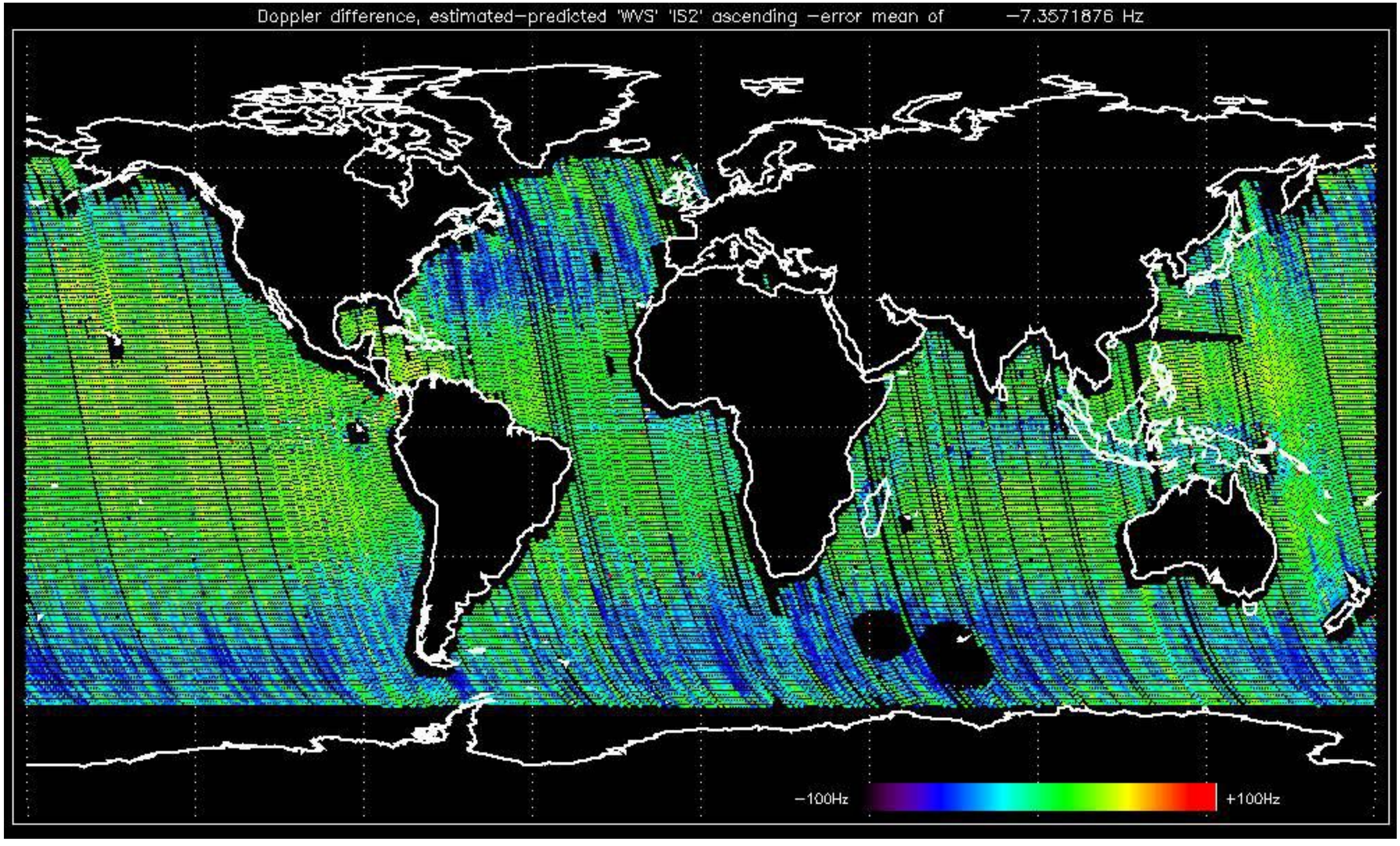

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

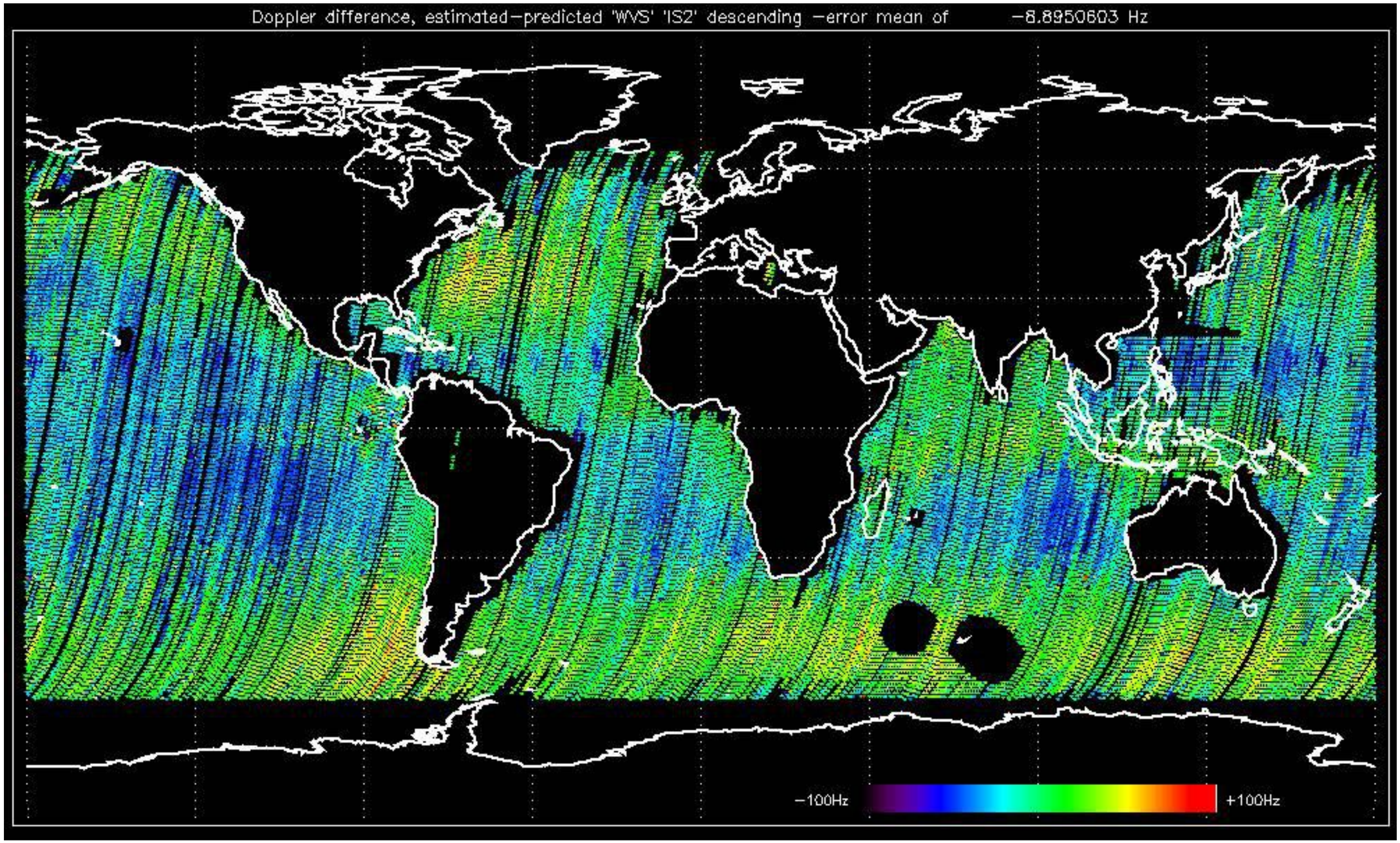

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −8.2210652 Hz
−100Hz
+100Hz

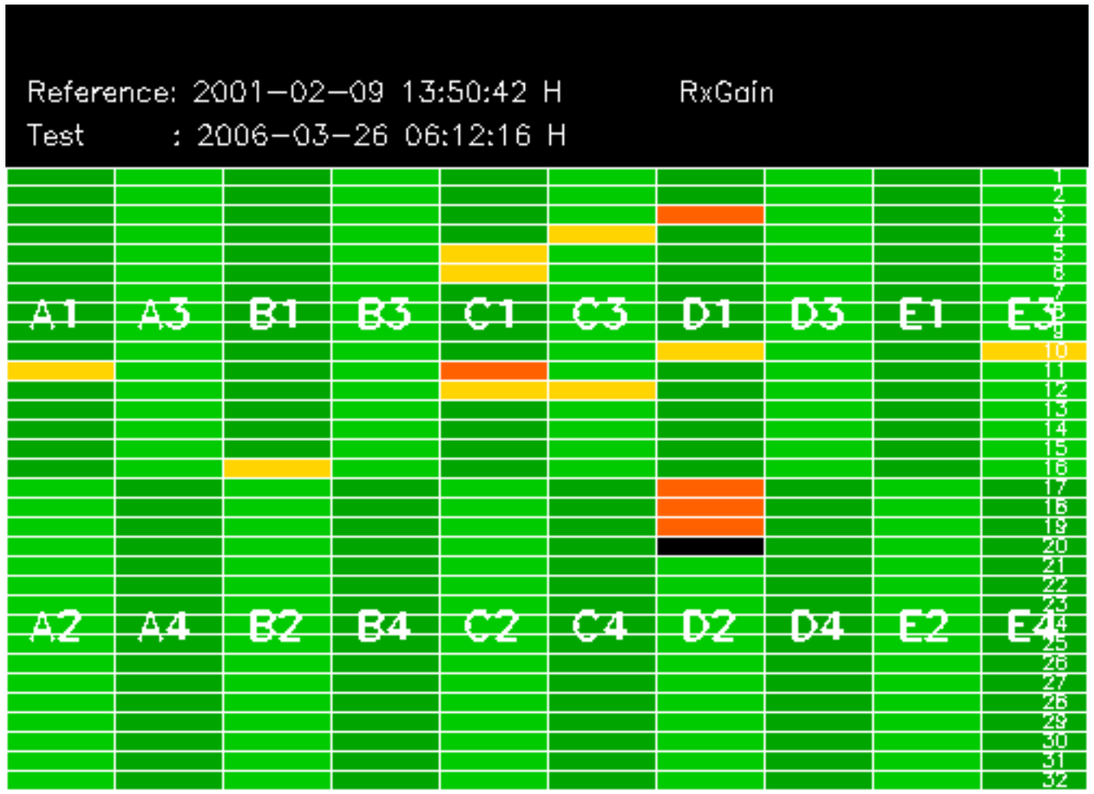

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -6.5804722 Hz
-100Hz
+100Hz

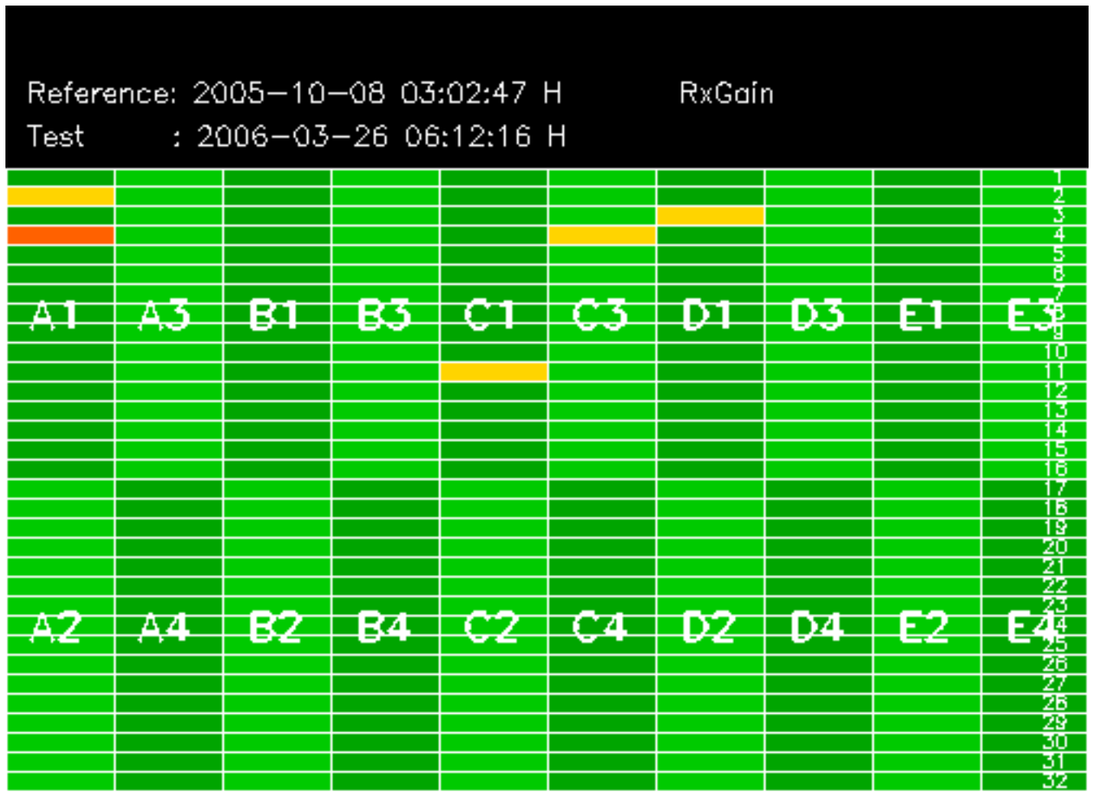

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −7.3571876 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −8.8950603 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
2
3
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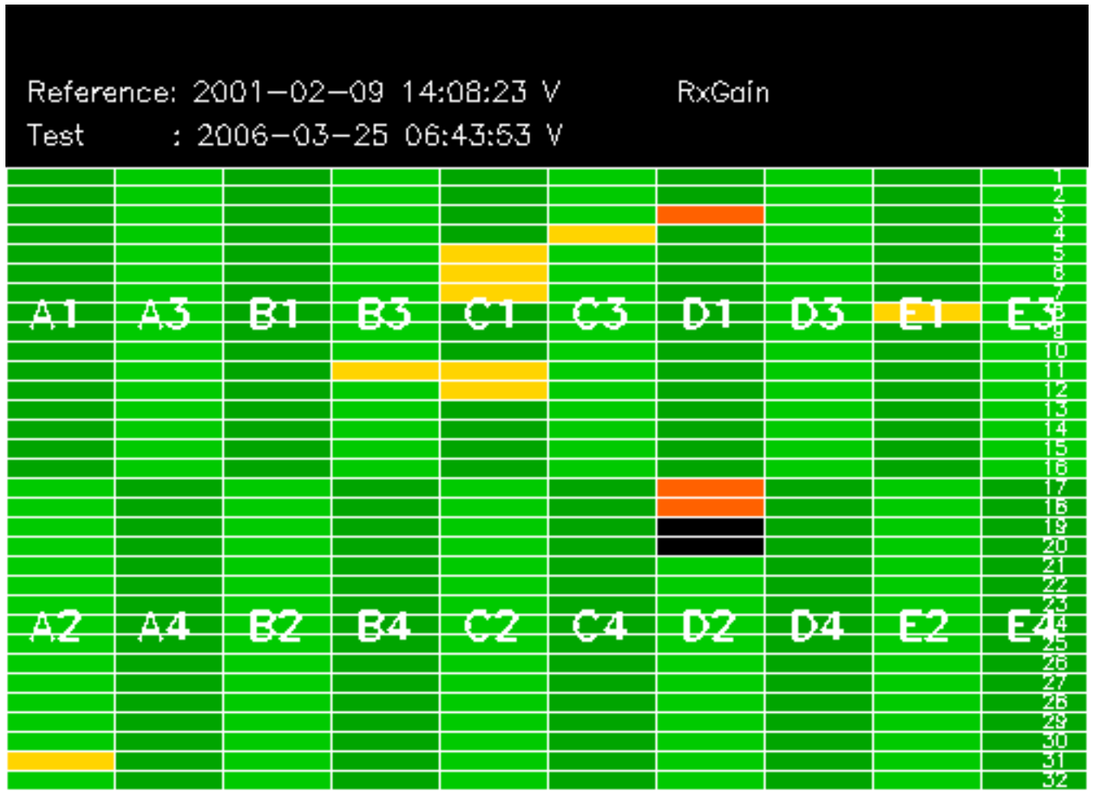
Reference: 2001-02-09 14:08:23 V
Test : 2006-03-25 06:43:53 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
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8
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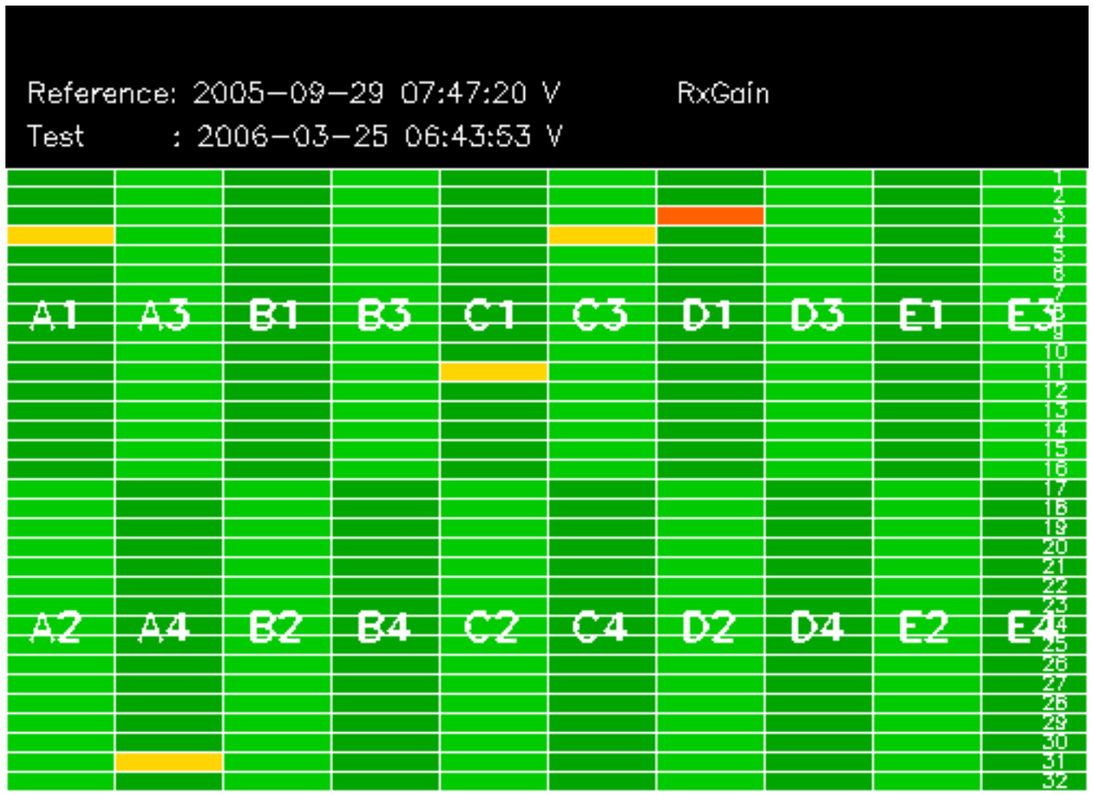
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-25 06:43:53 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
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8
9
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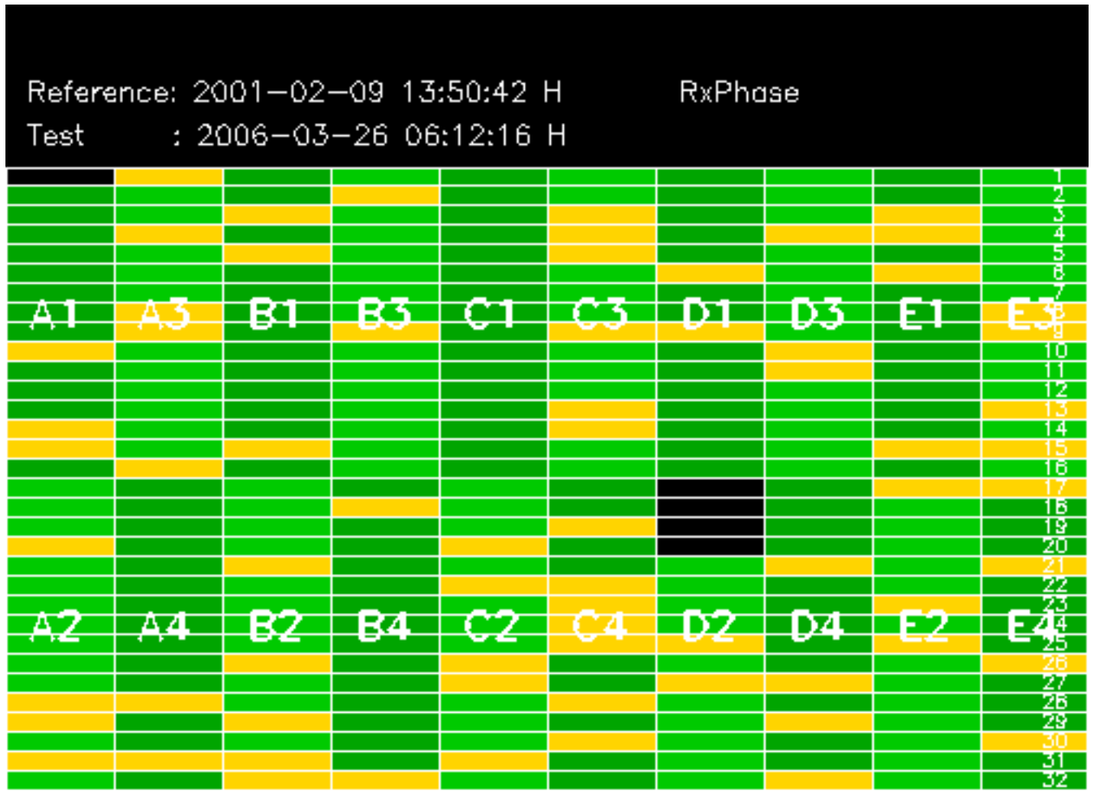
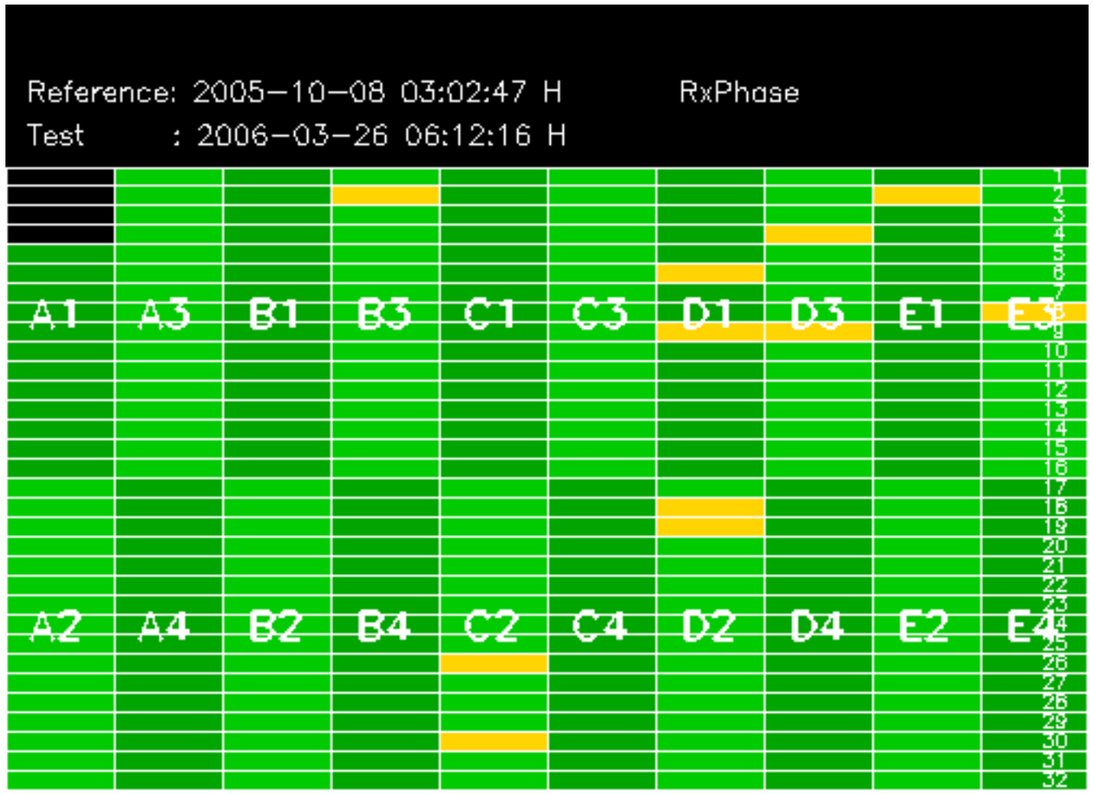
32


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
1
2
3
4
5
6
7
8
9
10
11
12
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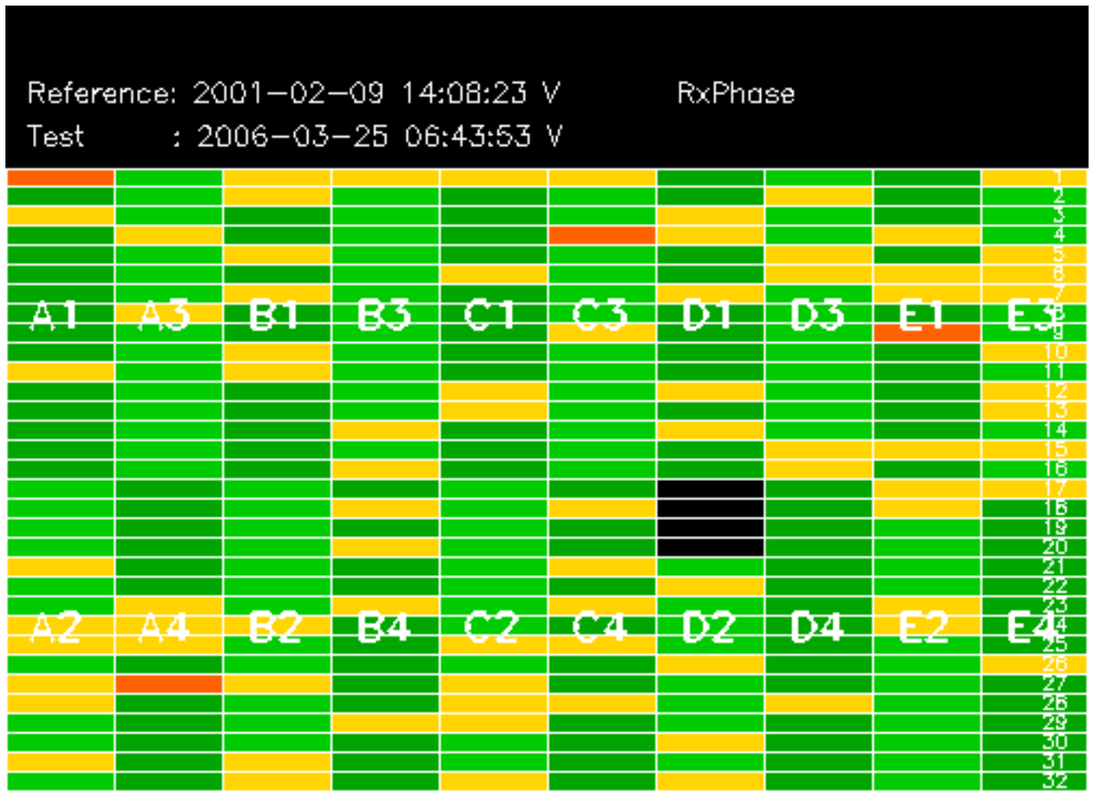
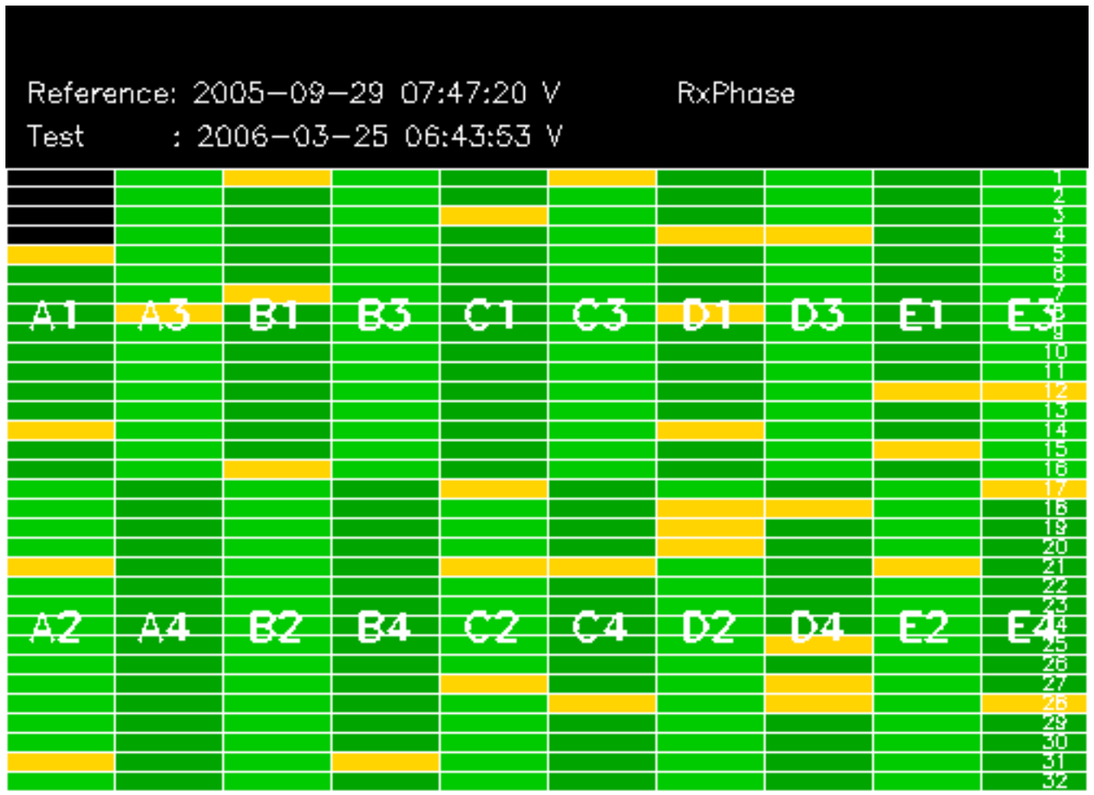
32


Reference: 2001-02-09 14:08:23 V
Test : 2006-03-25 06:43:53 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 : 2006-03-25 06:43:53 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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16
17
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19
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23
24
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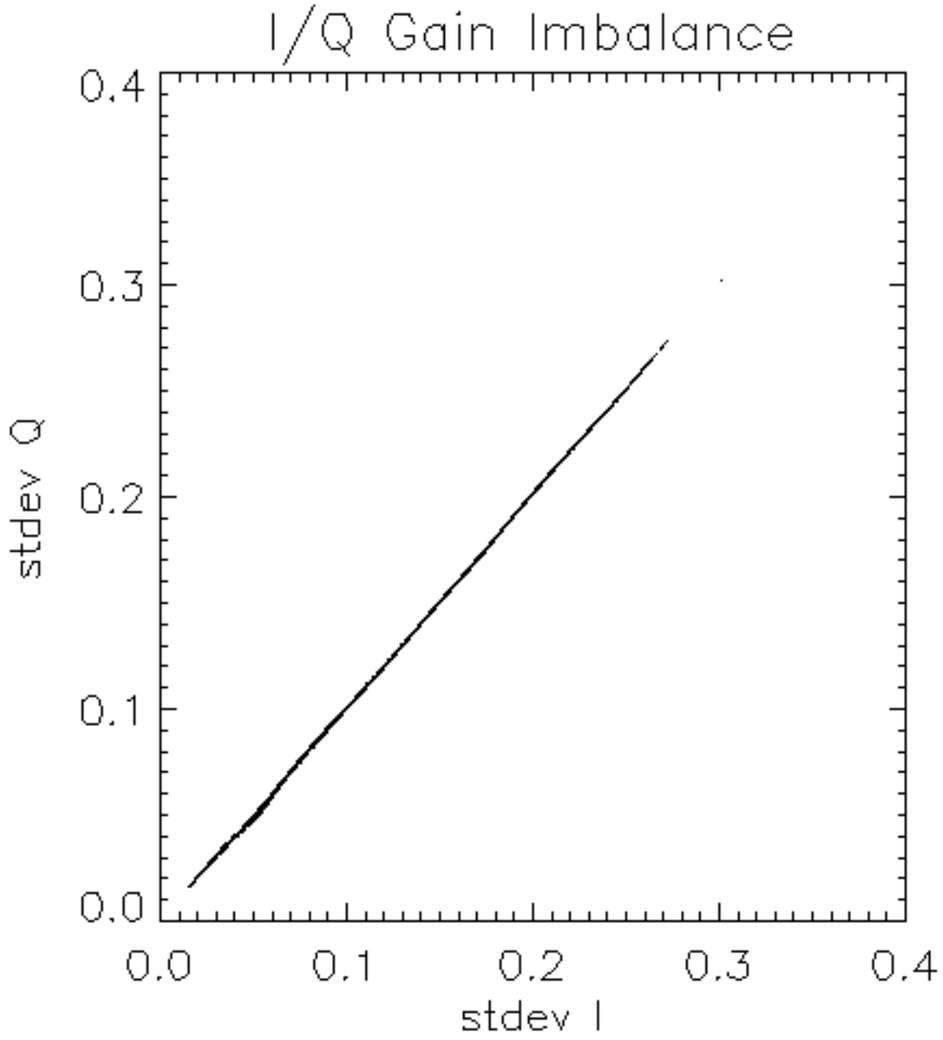
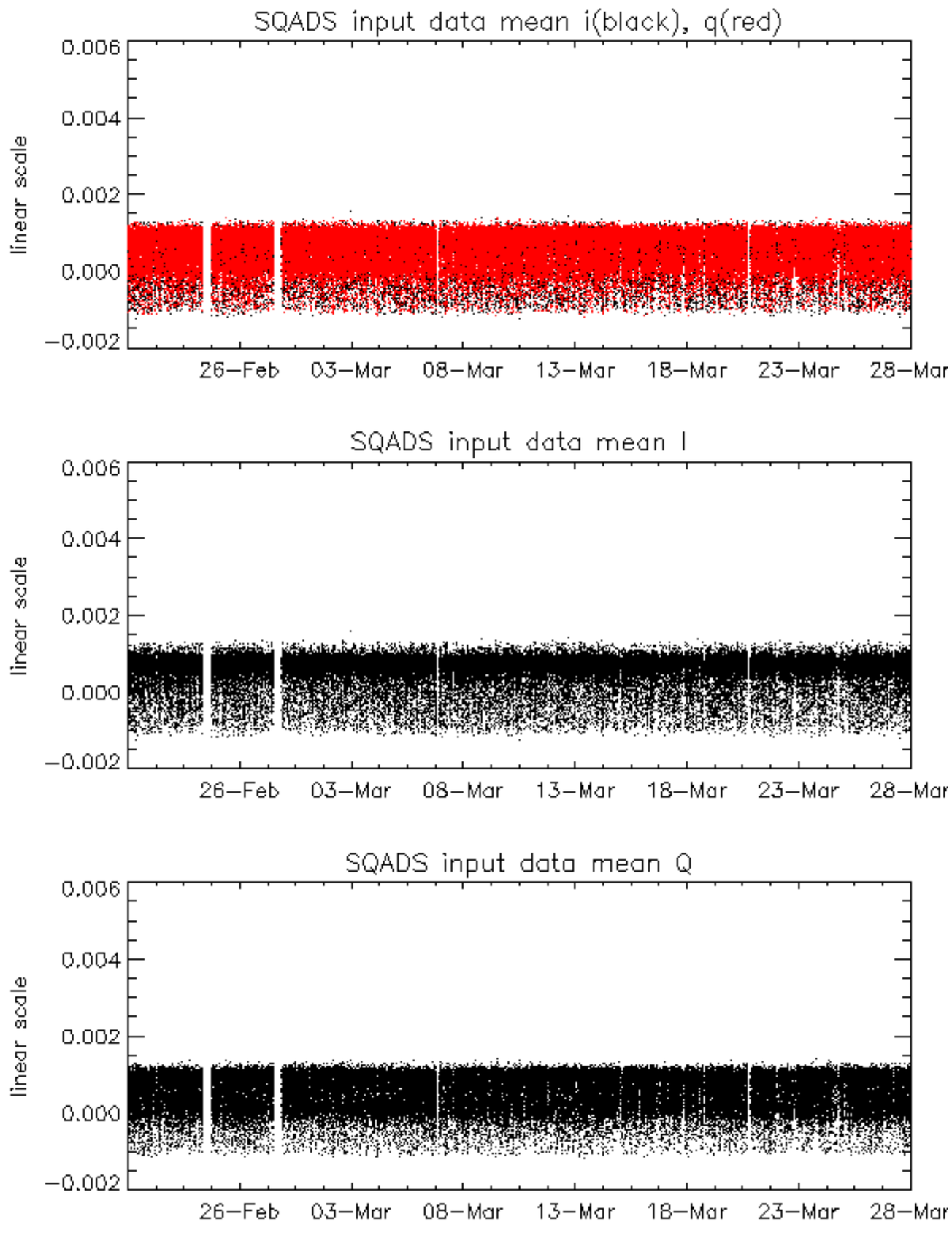
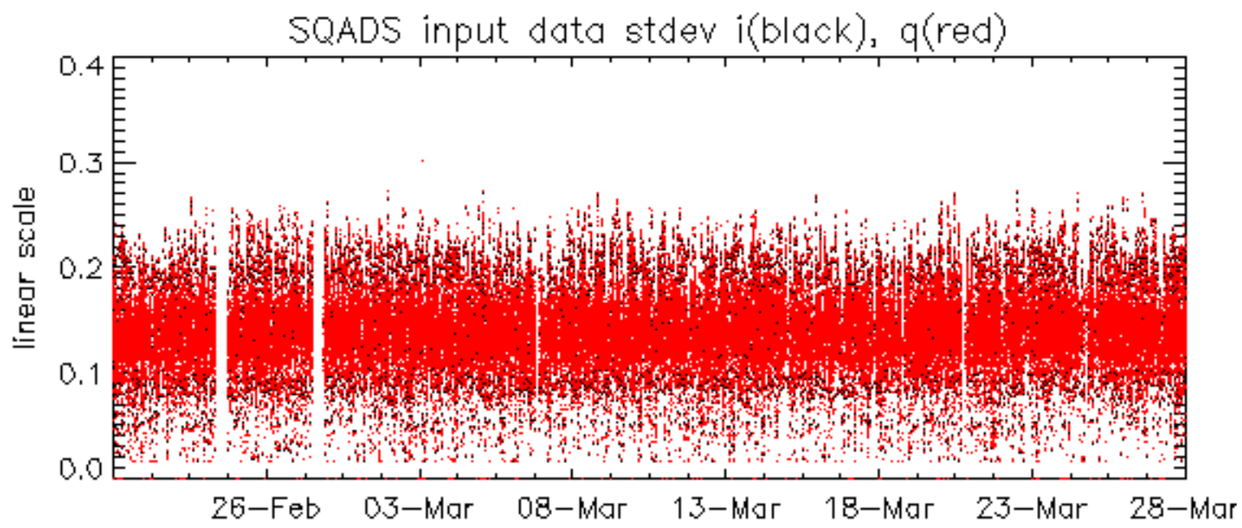
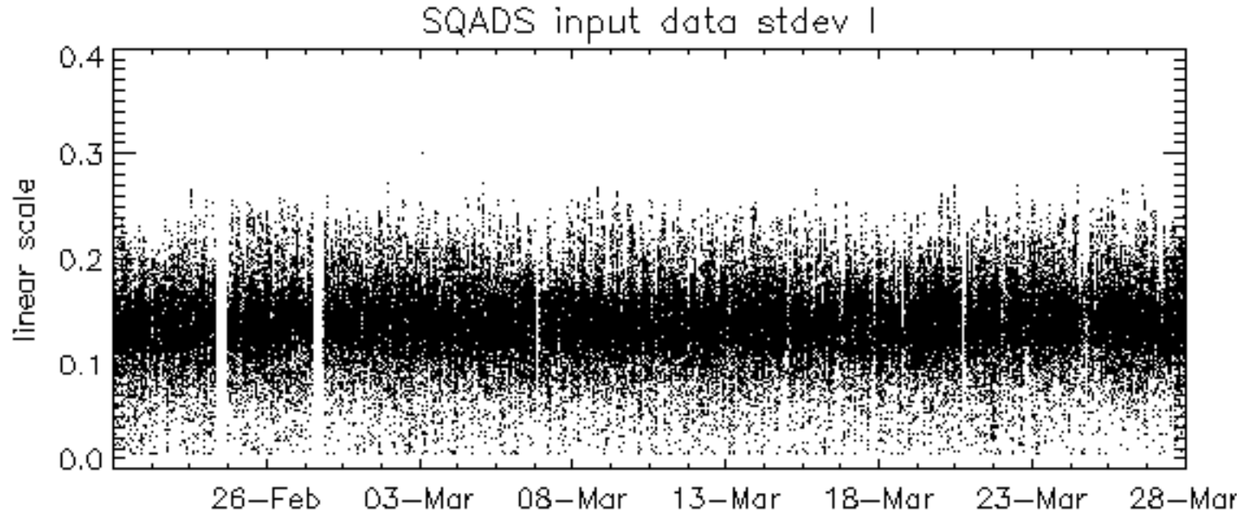
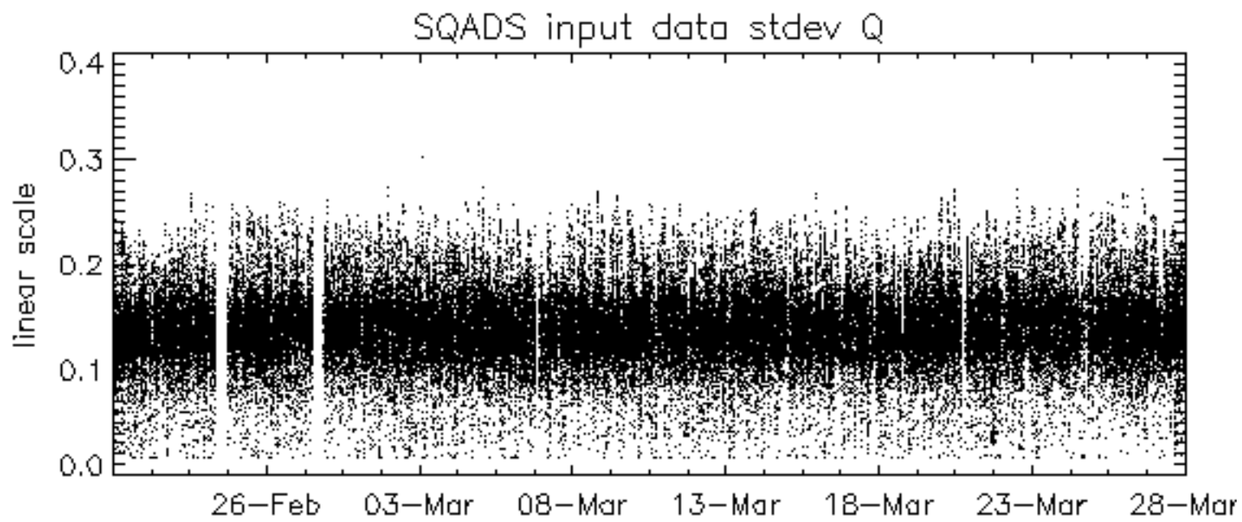
28
29
30
31
32

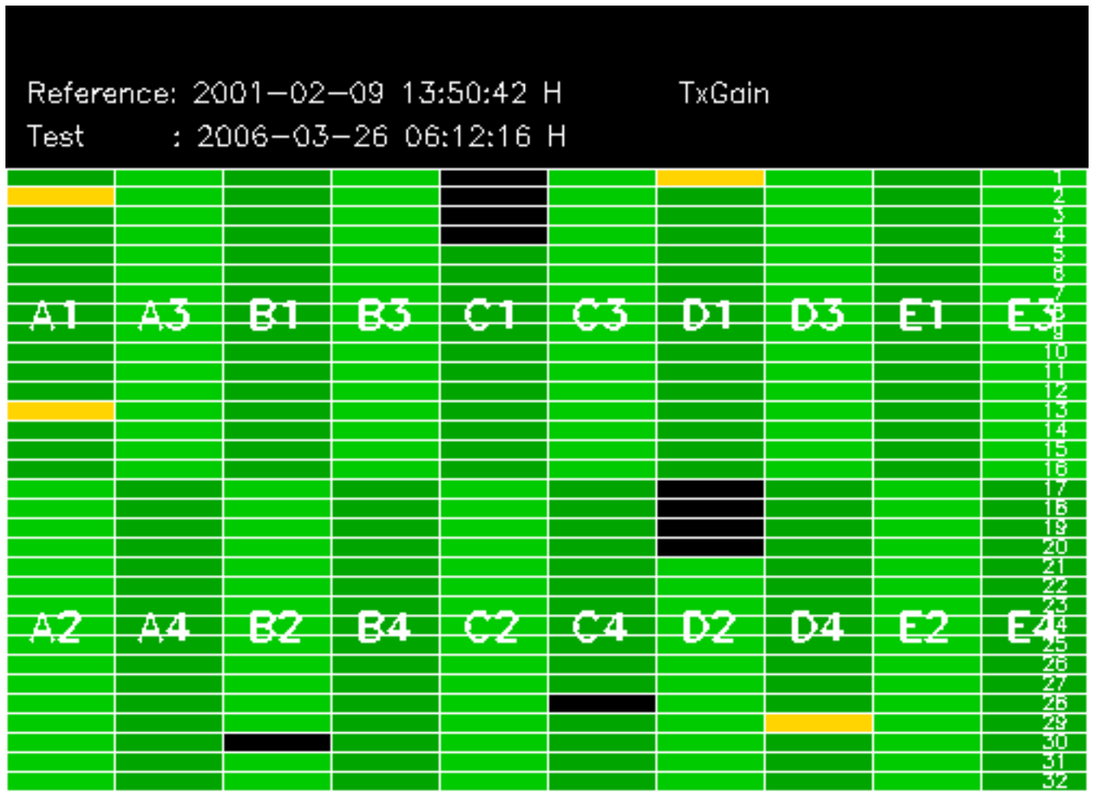

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I


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
1
2
3
4
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9
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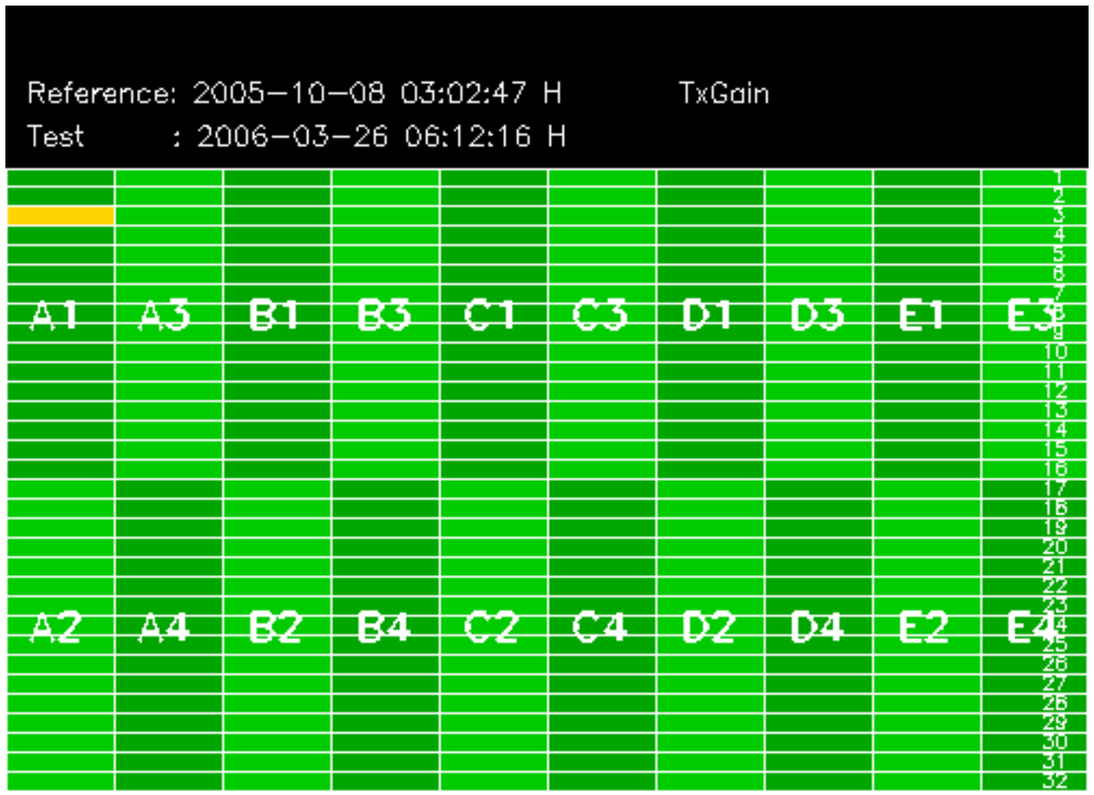
31
32


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
1
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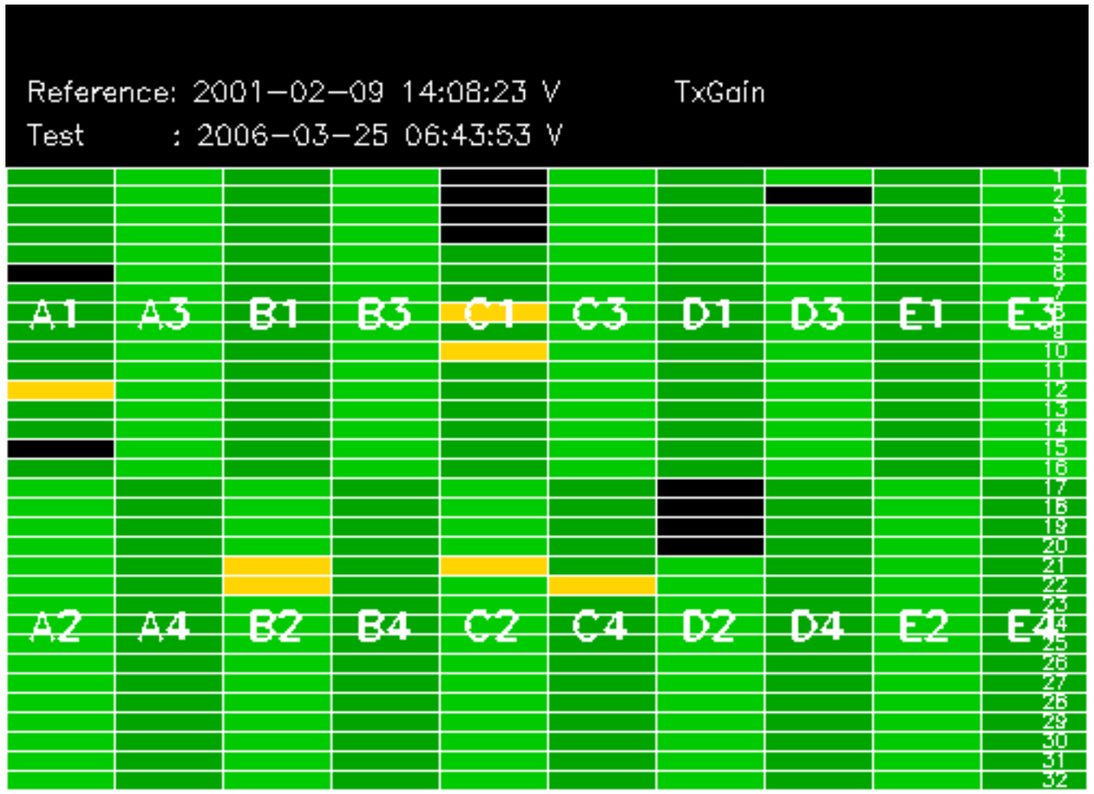
26
27
28
29
30
31
32


Reference: 2001-02-09 14:08:23 V
Test : 2006-03-25 06:43:53 V
TxGain
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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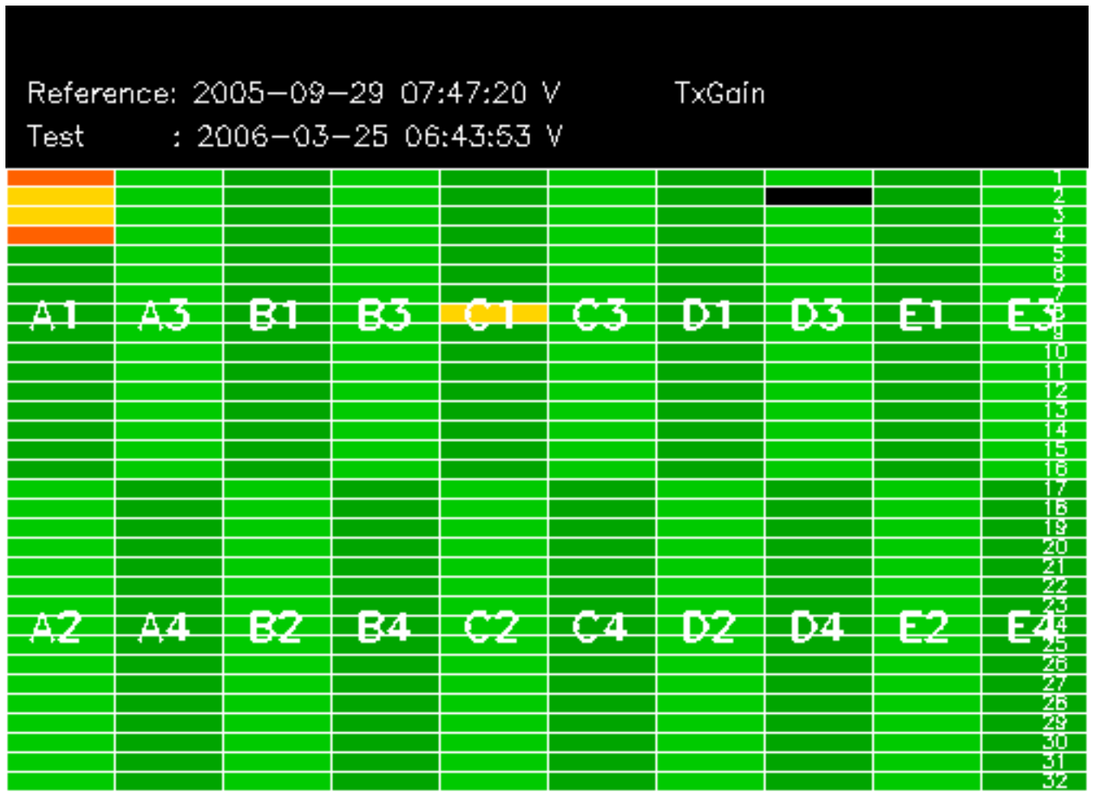
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-25 06:43:53 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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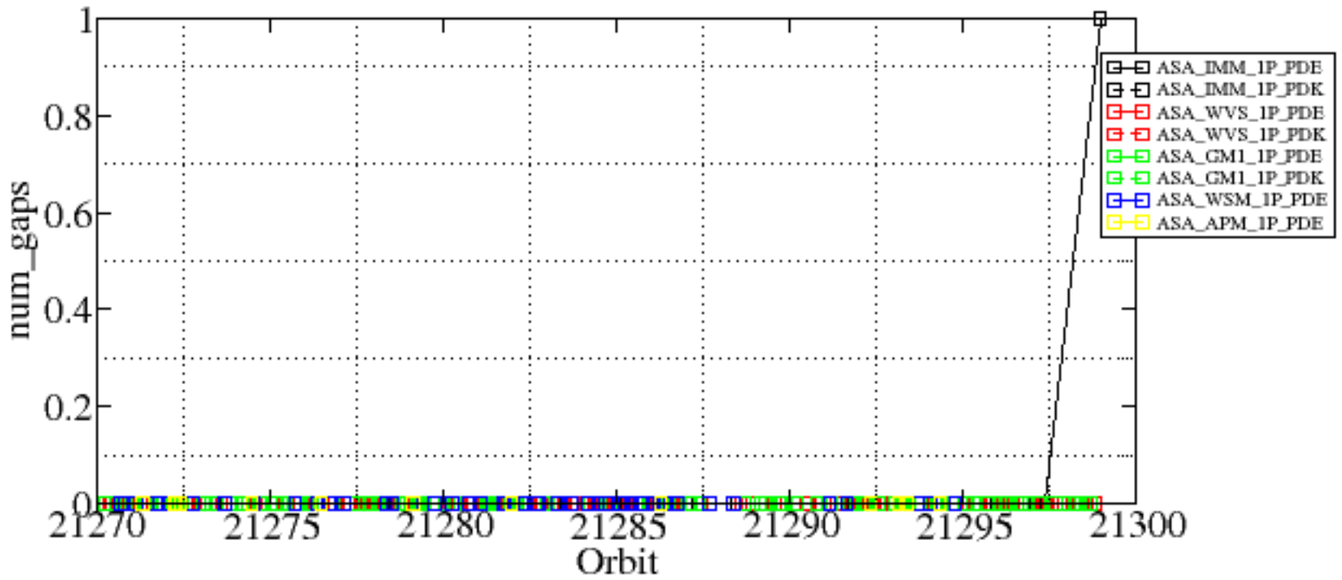
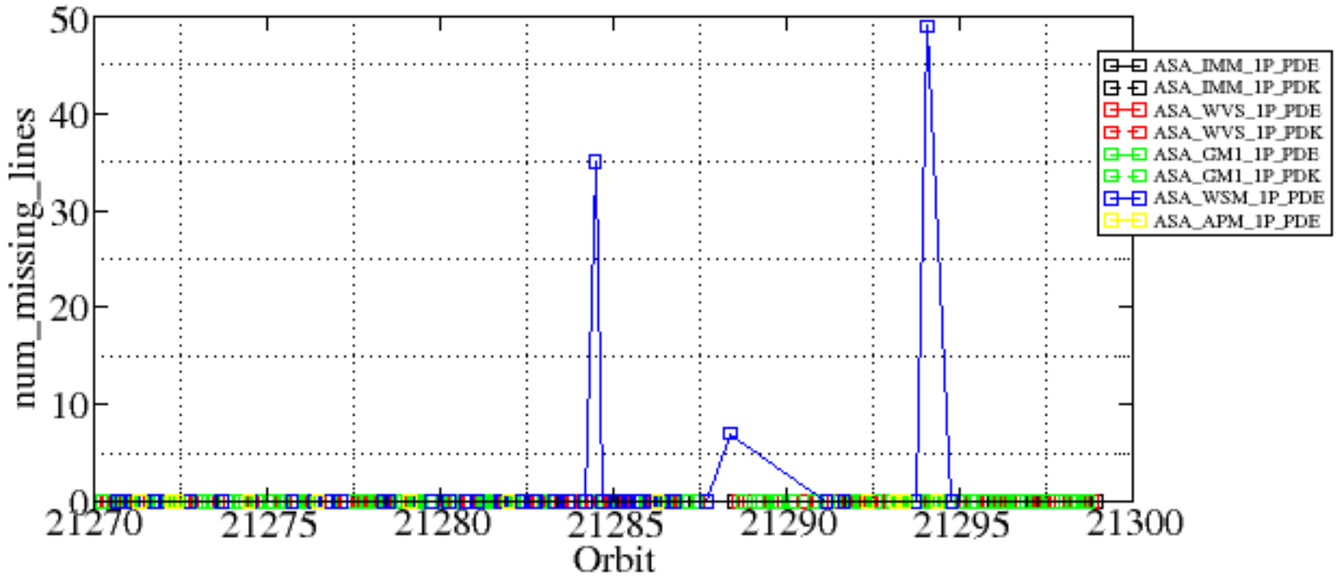
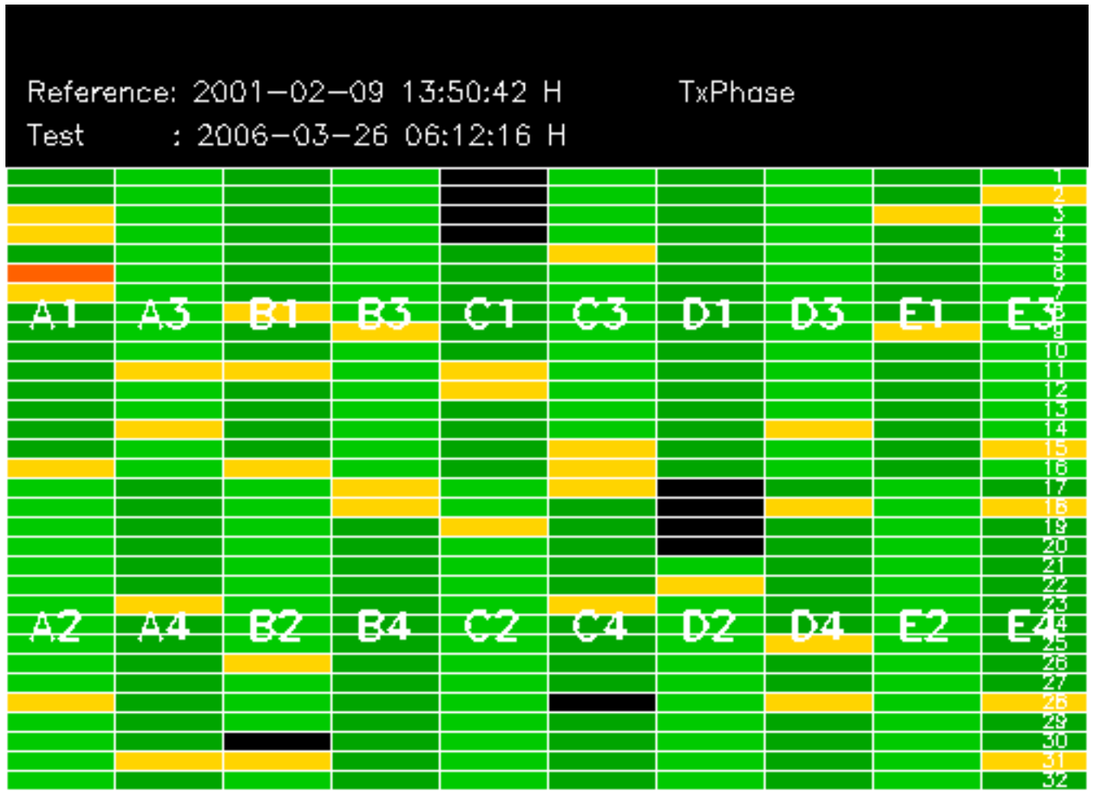
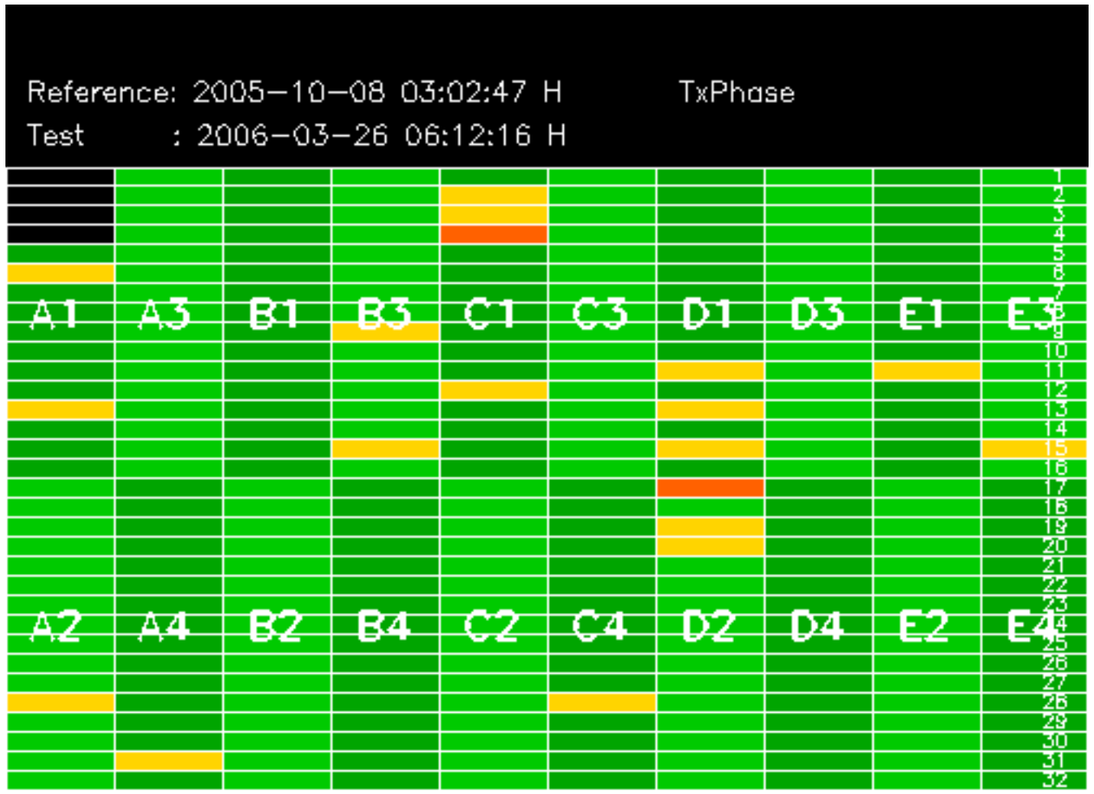
32

Summary of analysis for the last 3 days 2006032[678]
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_1PNPDE20060328_003704_000001362046_00202_21298_1625.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060327_001933_000002262046_00188_21284_2752.N1 </td> <td>0 </td> <td>35 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060327_065041_000000672046_00192_21288_2792.N1 </td> <td>0 </td> <td>7 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060327_162329_000002082046_00198_21294_2814.N1 </td> <td>0 </td> <td>49 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
21270
21275
21280
21285
21290
21295
21300
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


num_missing_lines
50
40
30
20
10
0
21270
21275
21280
21285
21290
21295
21300
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


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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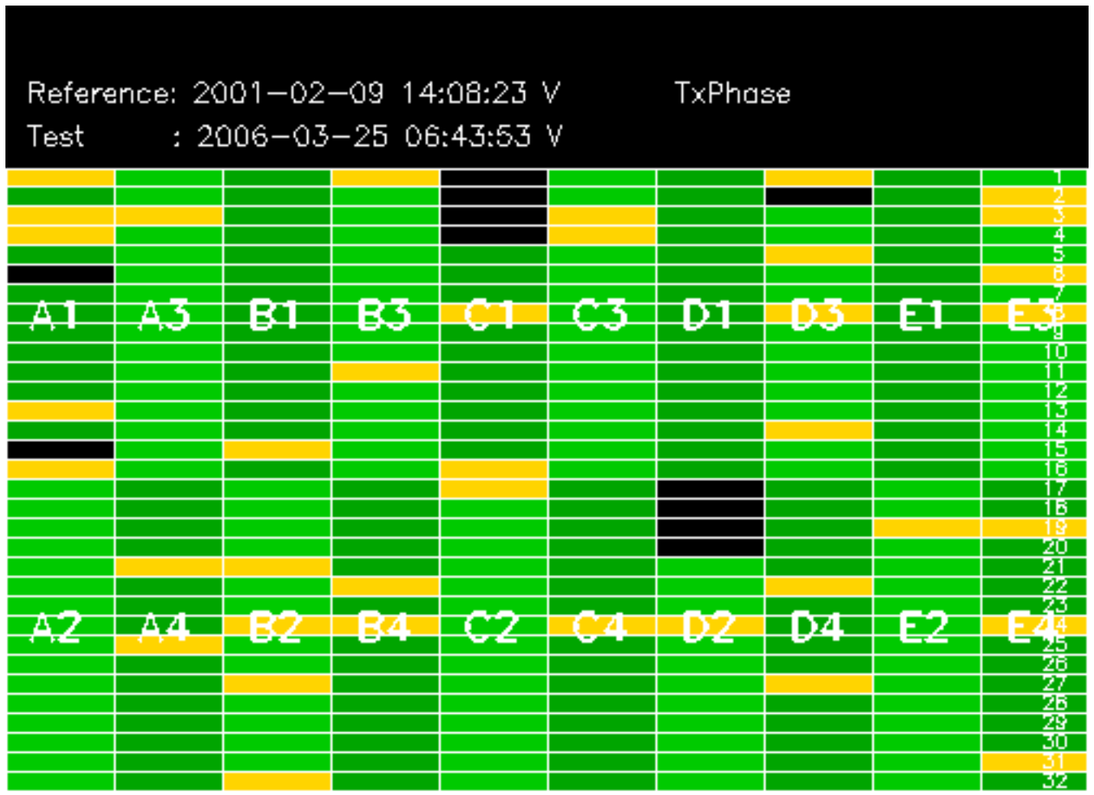
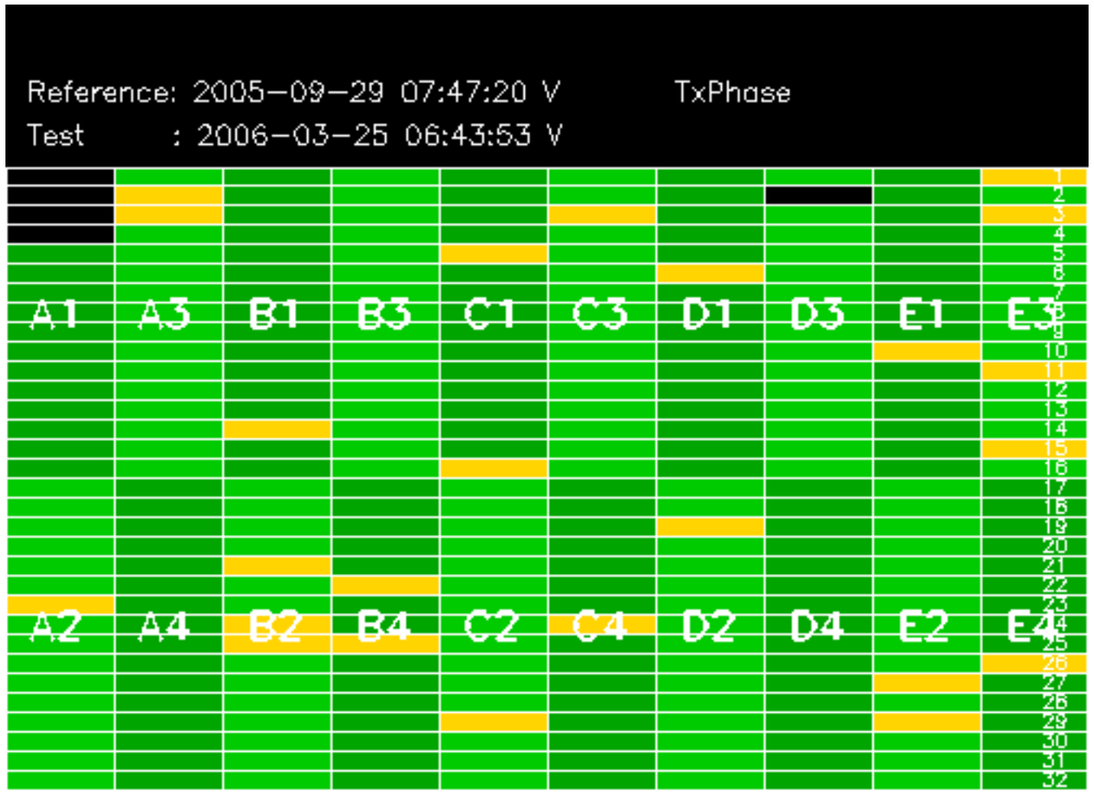
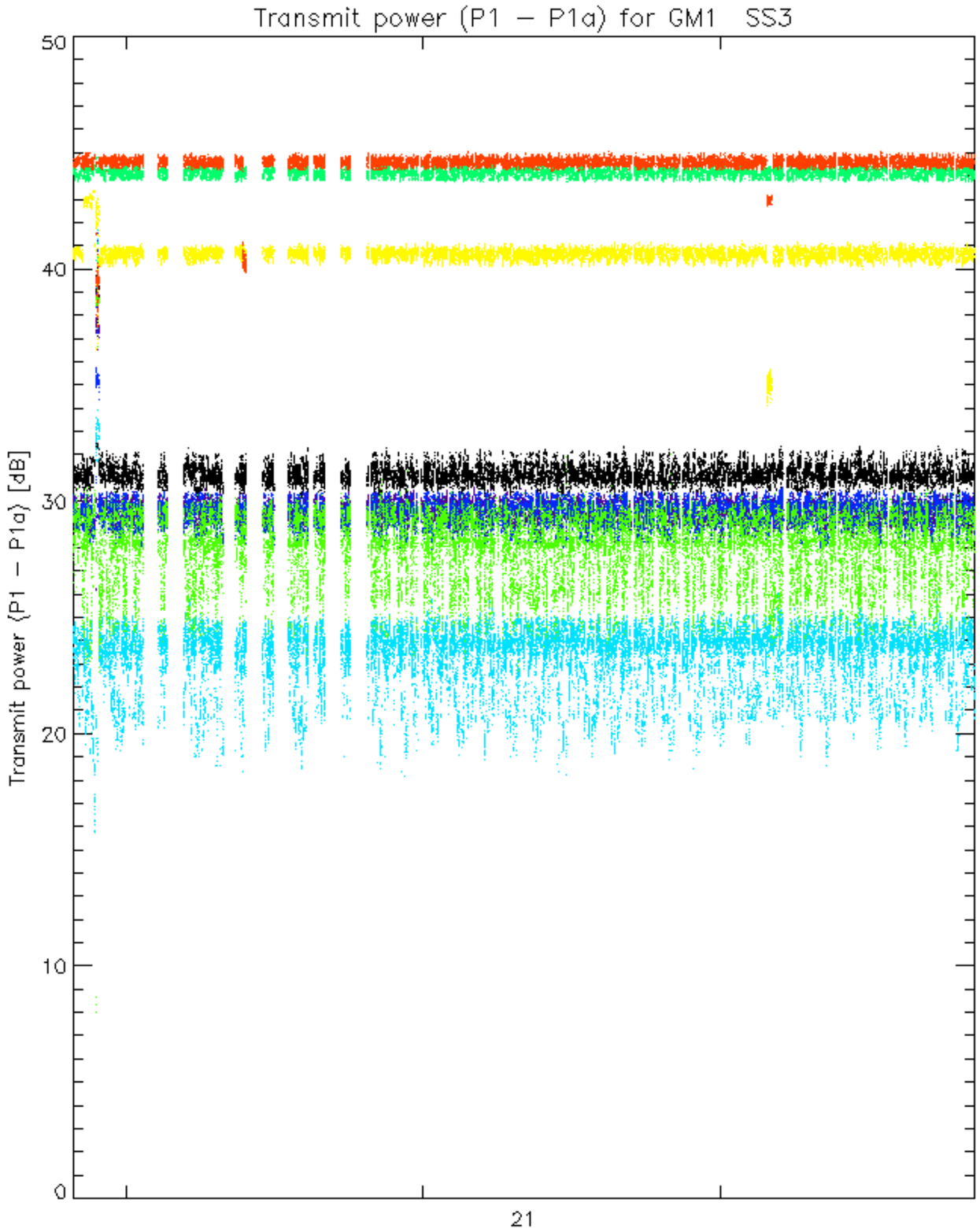
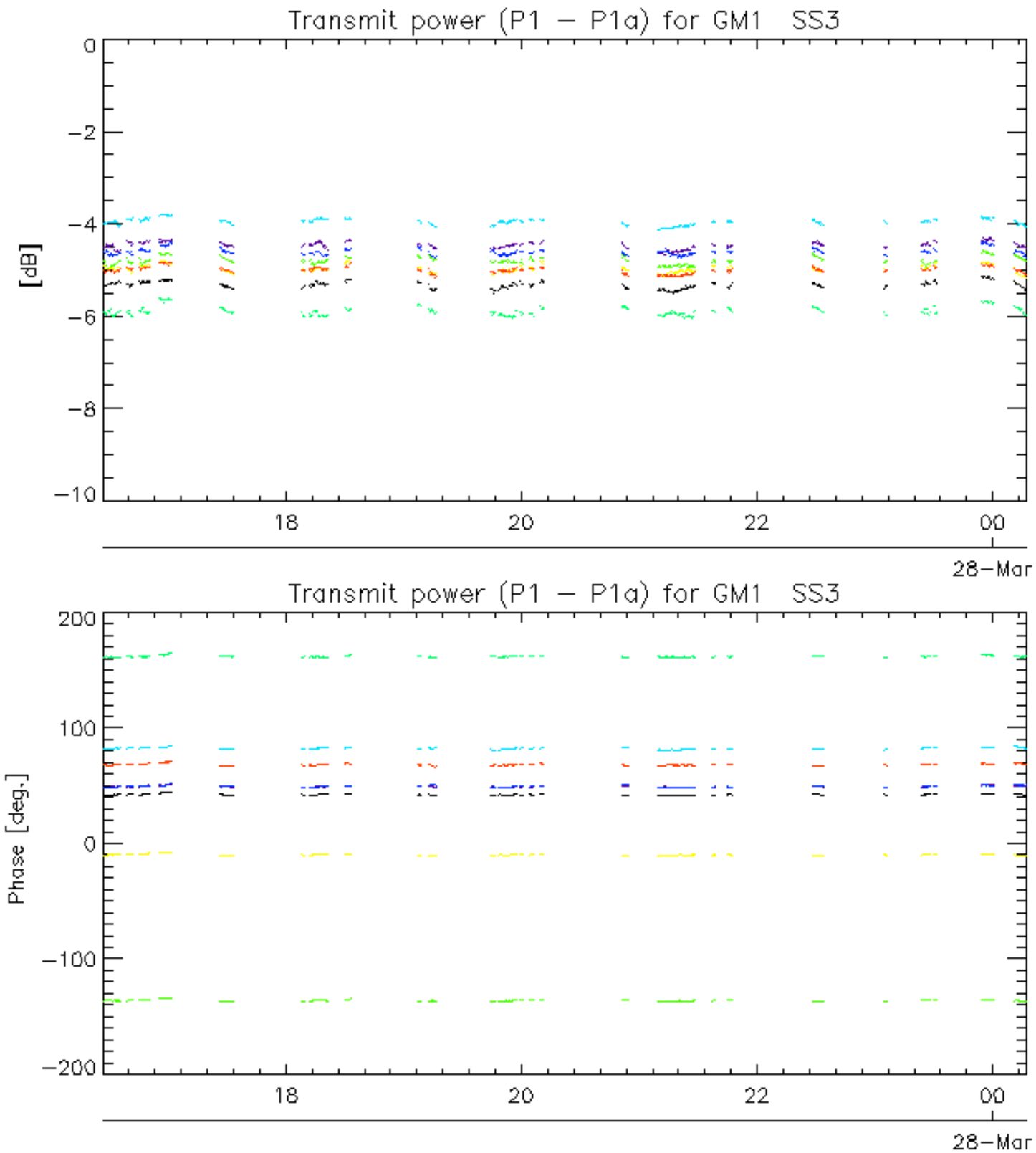
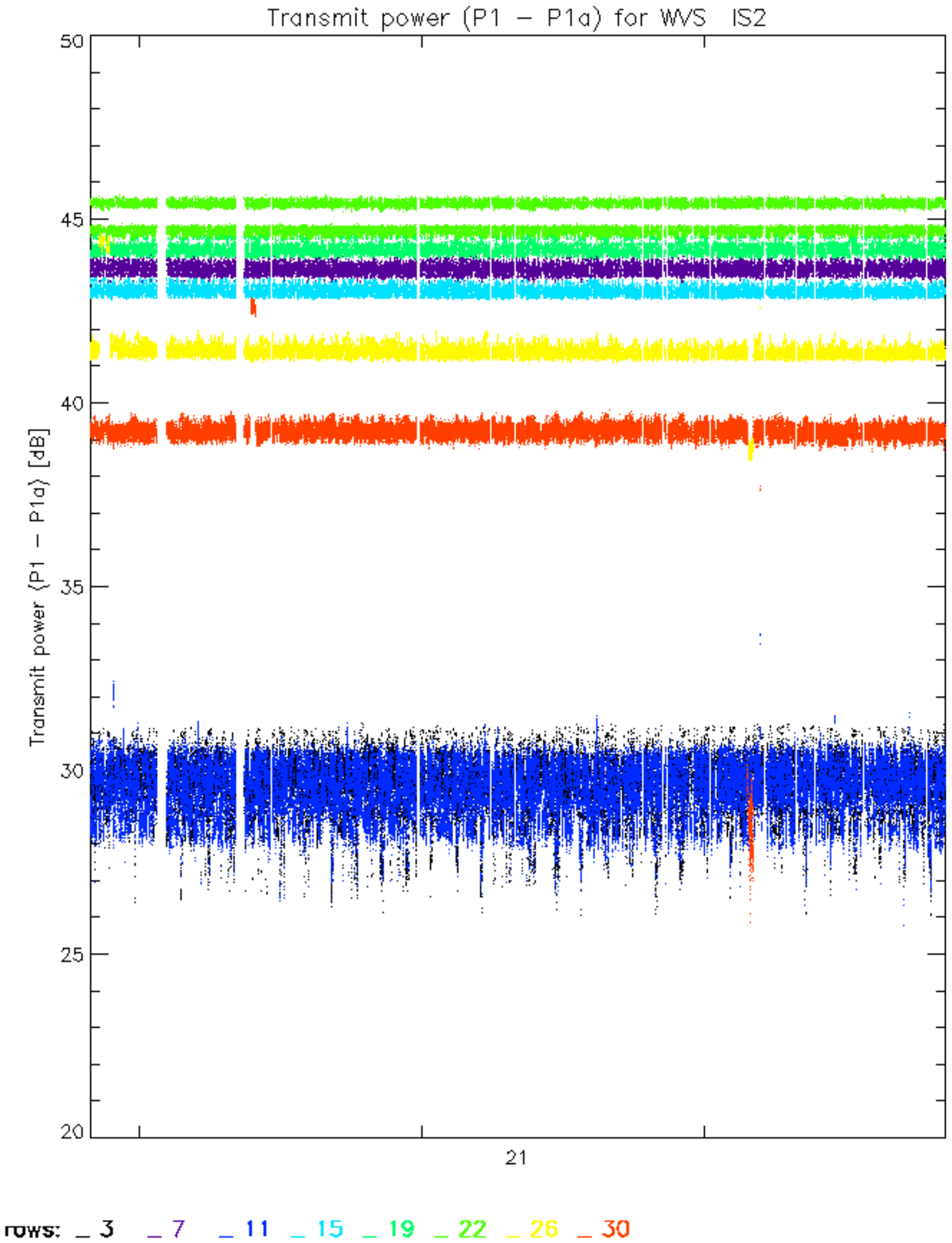
32

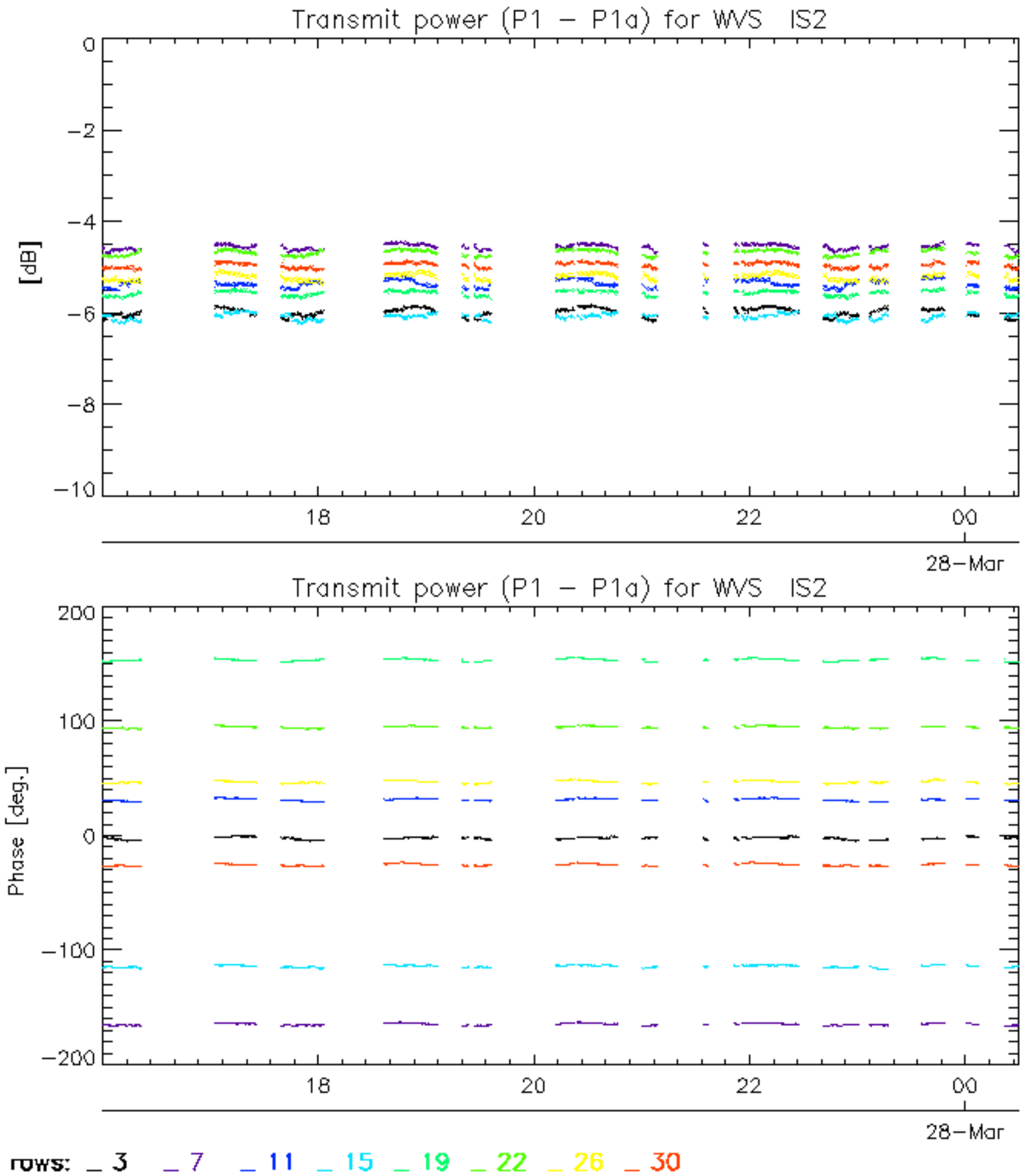

Reference: 2001-02-09 14:08:23 V
Test : 2006-03-25 06:43:53 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-03-25 06:43:53 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


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

No unavailabilities during the reported period.