PRELIMINARY REPORT OF 060512

last update on Fri May 12 16:37:14 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 2006-05-11 00:00:00 to 2006-05-12 16:37:14

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	38	61	9	0	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	38	61	9	0	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	38	61	9	0	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	38	61	9	0	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	40	61	26	19	69
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	40	61	26	19	69
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	40	61	26	19	69
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	40	61	26	19	69

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	20060512 063524
H	20060511 070701

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	-3.971133	0.011865	0.004061
7	P1	-3.062418	0.013352	-0.096779
11	P1	-4.092759	0.015724	-0.051181
15	P1	-6.105670	0.012382	-0.099567
19	P1	-3.308913	0.007827	-0.011696
22	P1	-4.521369	0.011096	-0.028306
26	P1	-4.031407	0.020343	0.102700
30	P1	-5.738027	0.021172	-0.038744
3	P1	-16.662861	0.316618	0.155229
7	P1	-16.992100	0.149318	-0.276715
11	P1	-16.771591	0.321768	-0.437855
15	P1	-13.117746	0.141073	-0.295241
19	P1	-14.162644	0.048711	-0.255718
22	P1	-16.072561	0.460223	-0.270173
26	P1	-15.413162	0.270920	0.423478
30	P1	-16.815498	0.324138	-0.537140

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.281754	0.085488	0.103766
7	P2	-22.179693	0.100537	0.125098
11	P2	-16.021107	0.111946	0.153354
15	P2	-7.163594	0.096362	-0.029492
19	P2	-9.153744	0.089178	-0.037894
22	P2	-18.064003	0.087977	-0.139850
26	P2	-16.317591	0.093095	-0.118645
30	P2	-19.602610	0.087486	-0.008691

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.189567	0.004355	-0.018812
7	P3	-8.189567	0.004355	-0.018812
11	P3	-8.189567	0.004355	-0.018812
15	P3	-8.189567	0.004355	-0.018812
19	P3	-8.189567	0.004355	-0.018812
22	P3	-8.189567	0.004355	-0.018812
26	P3	-8.189586	0.004356	-0.018789
30	P3	-8.189586	0.004356	-0.018789

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	-3.742188	0.040909	0.042710
7	P1	-2.655194	0.110652	0.119610
11	P1	-2.880332	0.032936	0.056298
15	P1	-3.510636	0.030599	0.051969
19	P1	-3.383625	0.013878	-0.015402
22	P1	-5.114959	0.022478	0.062504
26	P1	-5.816990	0.023534	-0.045866
30	P1	-5.180017	0.046744	-0.000965
3	P1	-11.589016	0.142547	0.040356
7	P1	-9.982094	0.169113	0.003091
11	P1	-10.224546	0.085977	0.078268
15	P1	-10.676290	0.131919	0.146411
19	P1	-15.456629	0.089581	-0.077109
22	P1	-20.707397	1.292295	-0.456065

26	P1	-16.403685	0.411797	-0.247183
30	P1	-18.219353	0.496706	0.437431

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.947115	0.070513	0.079258
7	P2	-22.510223	0.183949	-0.092540
11	P2	-11.191842	0.050881	-0.011720
15	P2	-4.872388	0.042842	-0.075752
19	P2	-6.861240	0.041829	-0.049667
22	P2	-8.159101	0.055534	-0.085756
26	P2	-24.056484	0.131384	-0.115821
30	P2	-22.051020	0.089641	-0.025832

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.024029	0.003793	-0.007797
7	P3	-8.023986	0.003807	-0.008211
11	P3	-8.024134	0.003788	-0.007534
15	P3	-8.023880	0.003801	-0.007530
19	P3	-8.024118	0.003802	-0.007918
22	P3	-8.024023	0.003803	-0.007633
26	P3	-8.023879	0.003790	-0.007408
30	P3	-8.023966	0.003796	-0.007523

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	0.000544034
	stdev	1.85604e-07
MEAN Q	mean	0.000514415
	stdev	2.26392e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.135856
	stdev	0.00118761
STDEV Q	mean	0.136211
	stdev	0.00120494

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006051[012]
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_1PNPDE20060512_010614_000000832047_00346_21943_4800.N1	1	0
ASA_GM1_1PNPDK20060511_153006_000003862047_00340_21937_3252.N1	0	50
ASA_WSM_1PNPDE20060511_064141_000000672047_00335_21932_8794.N1	0	42
ASA_WSM_1PNPDE20060511_064141_000001472047_00335_21932_8799.N1	0	42

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

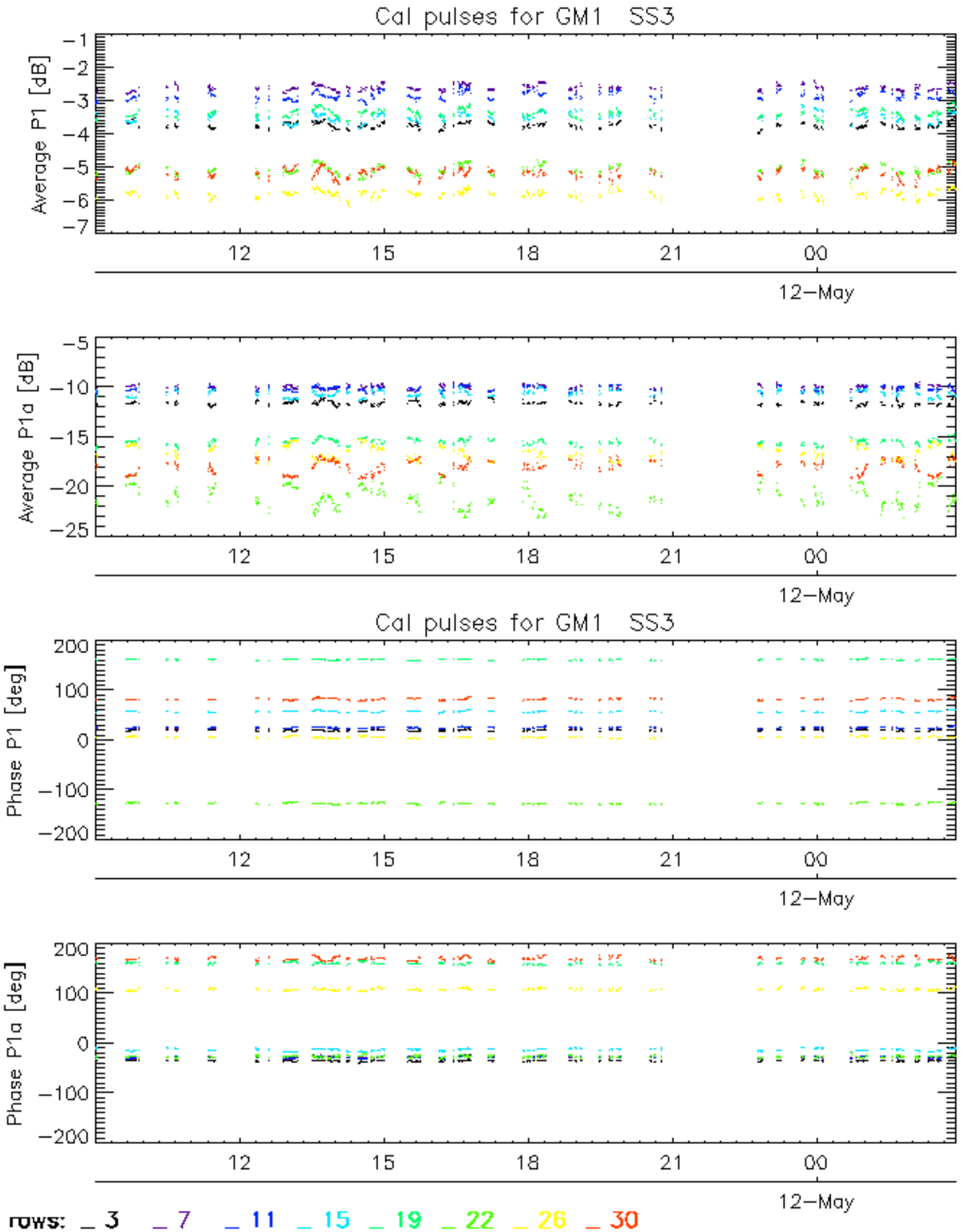
Evolution of Absolute Doppler

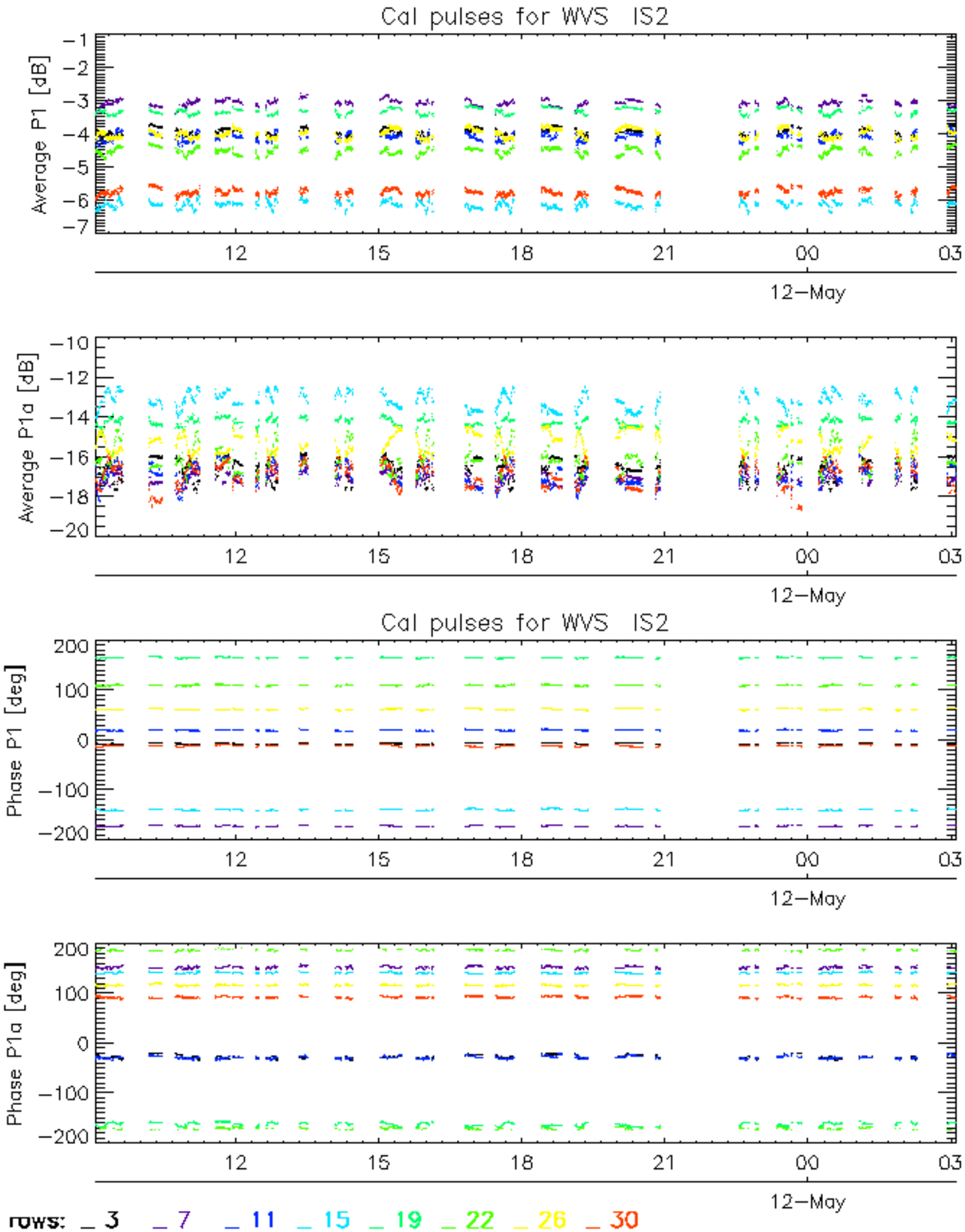
Acsending

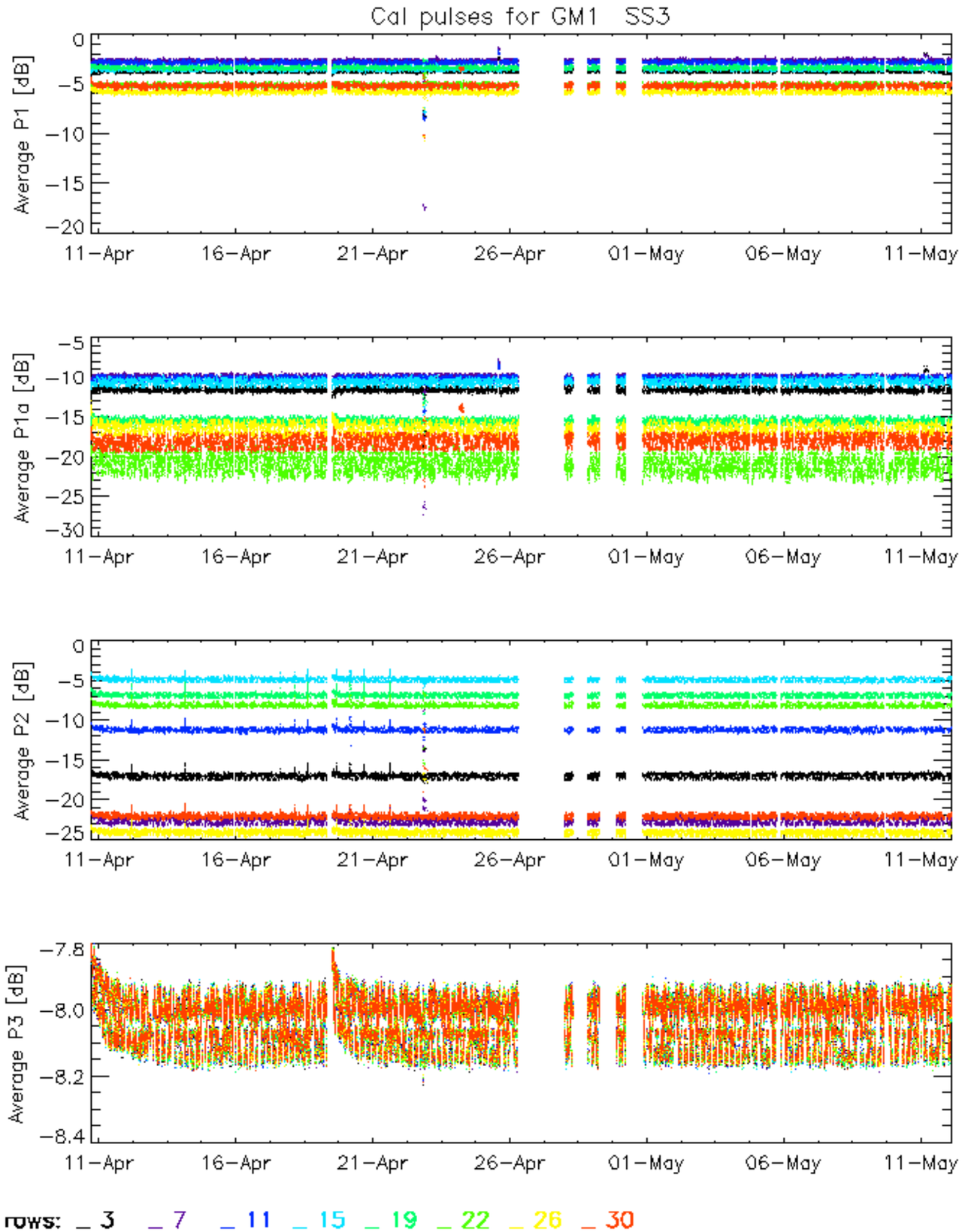
Descending

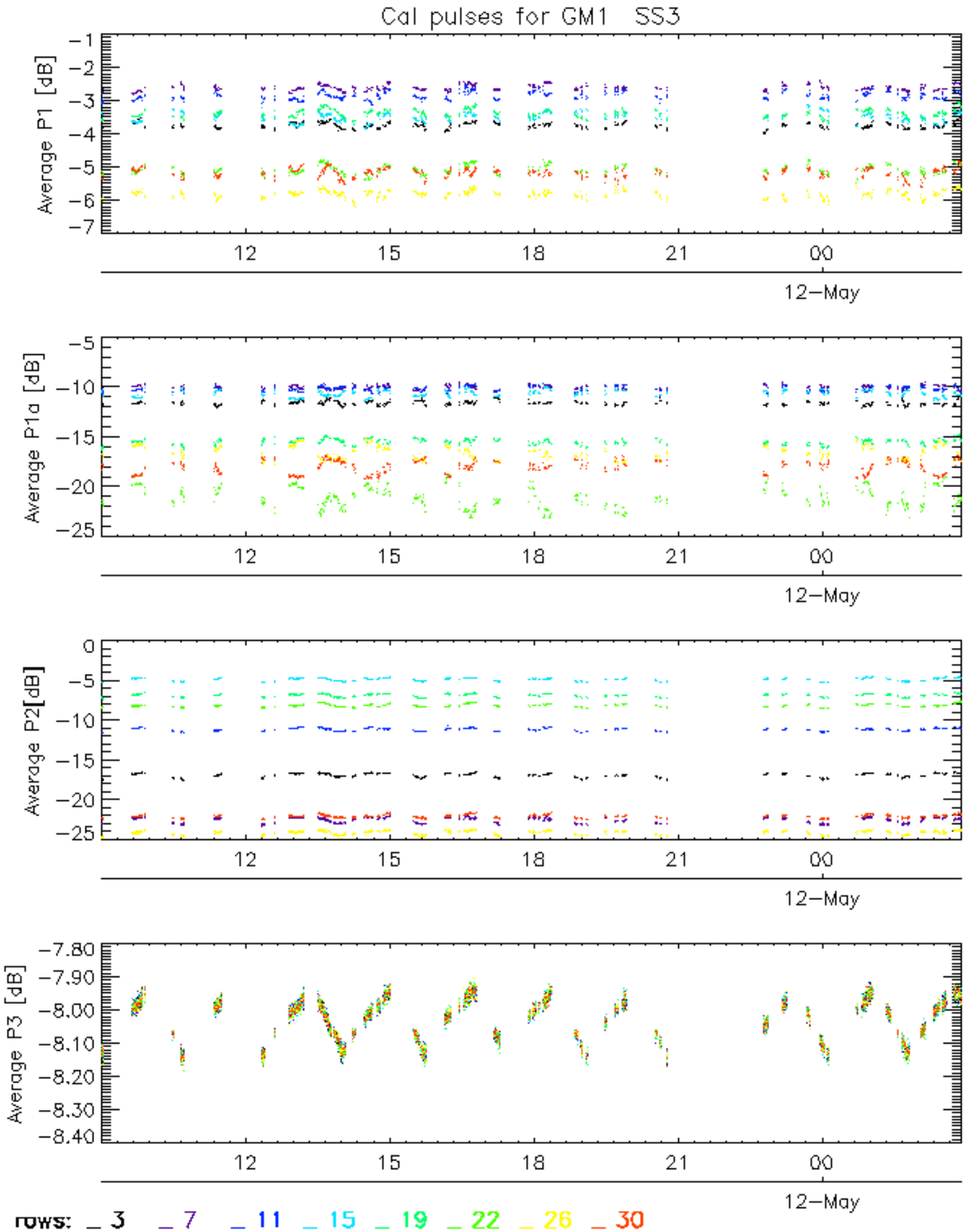
7.6 - Doppler evolution versus ANX for GM1

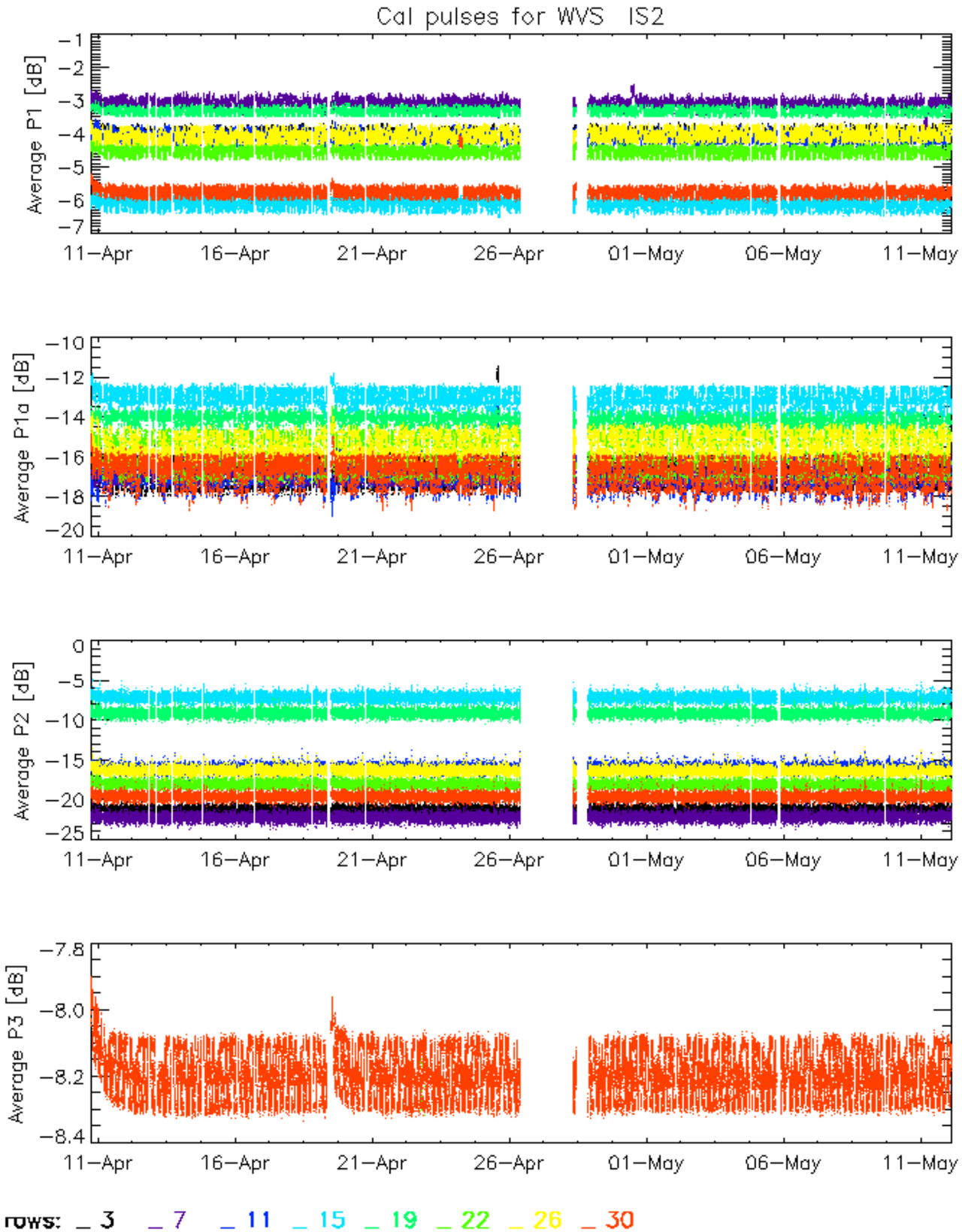
Evolution Doppler error versus ANX

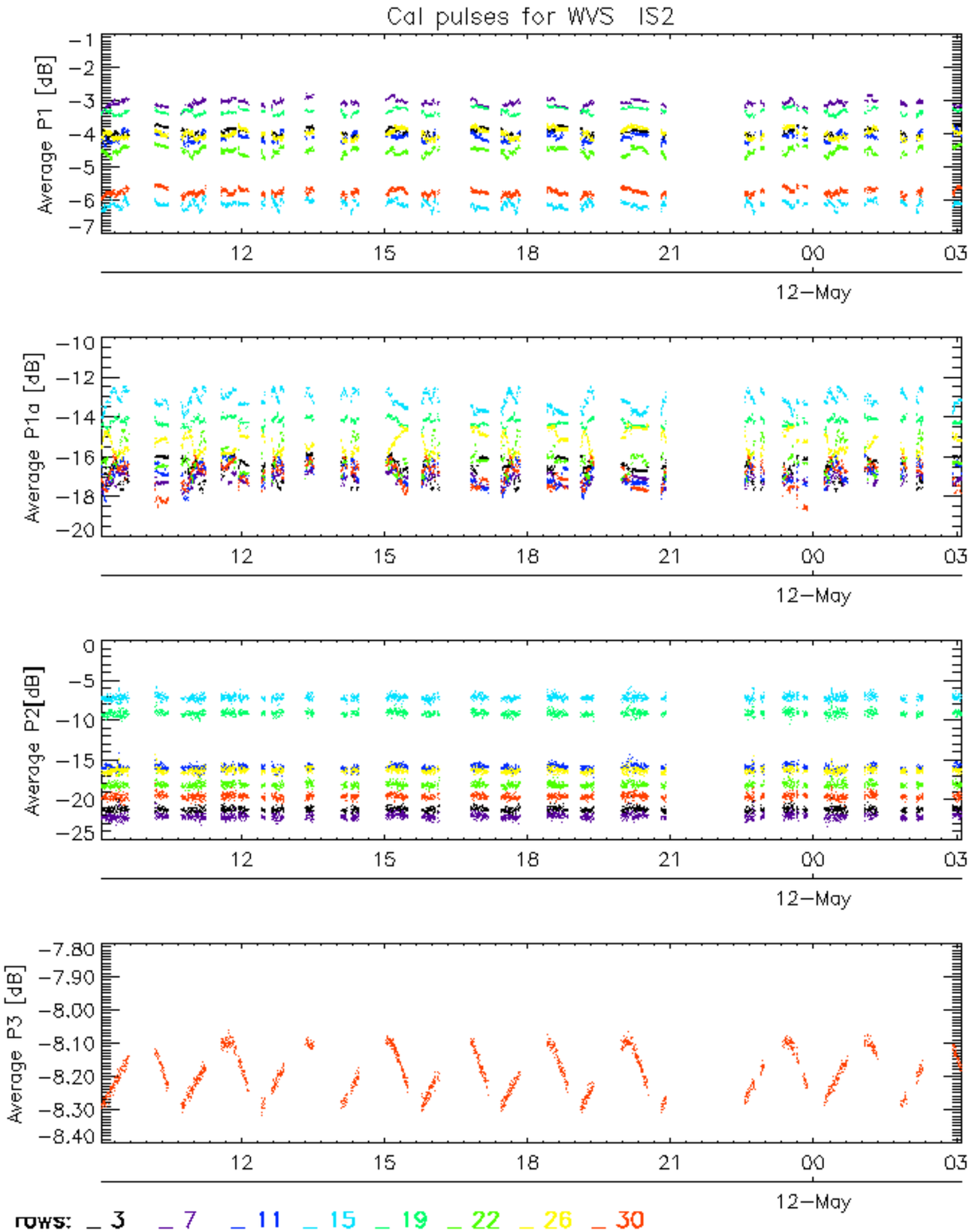


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
12
15
18
21
00
12−May
Average P1a [dB]
−5
−10
−15
−20
−25
12
15
18
21
00
12−May
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
12
15
18
21
00
12−May
Phase P1a [deg]
200
100
0
−100
−200
12
15
18
21
00
12−May
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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


Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
11−Apr
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May
Average P1a [dB]
−5
−10
−15
−20
−25
−30
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

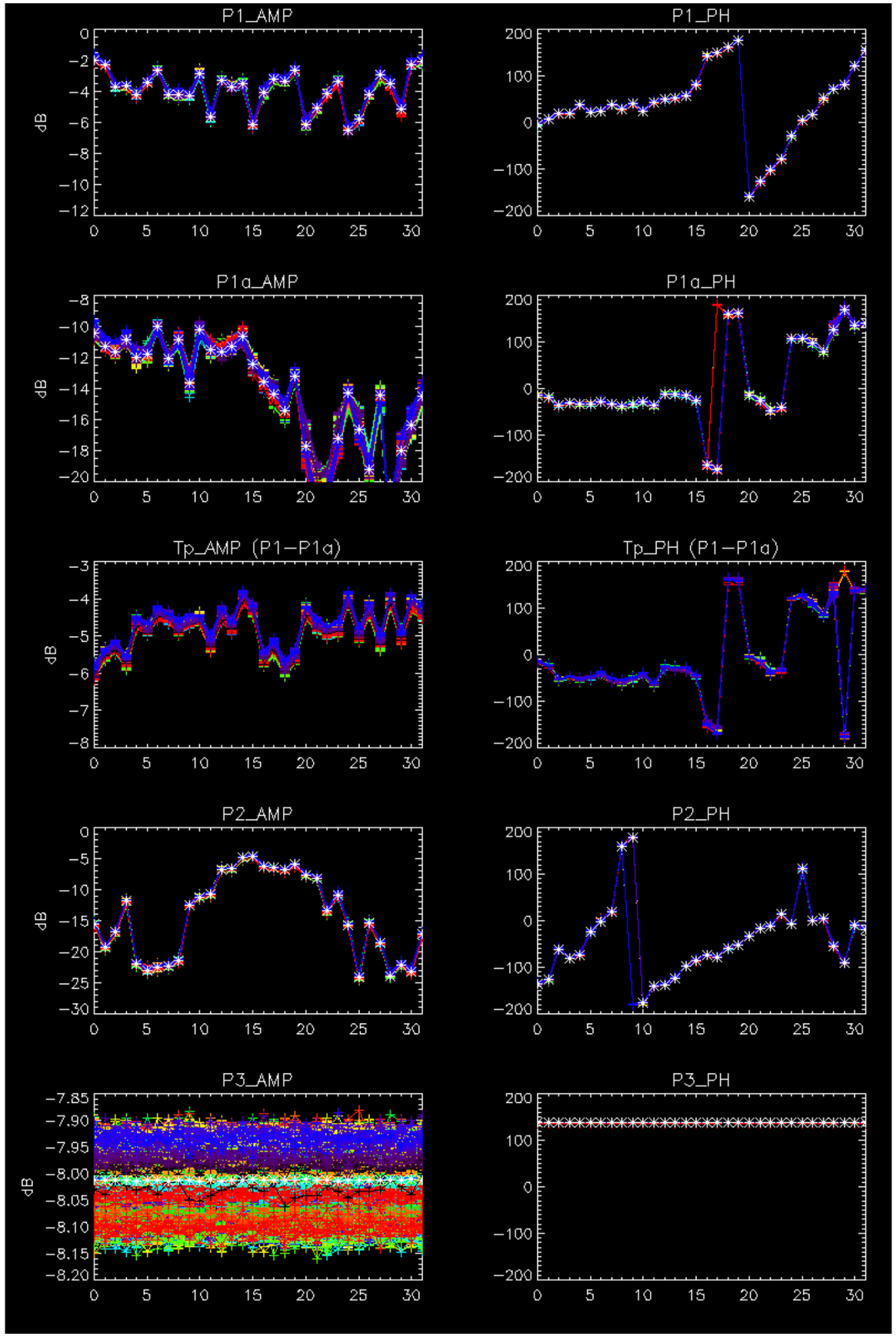

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
12
15
18
21
00
12−May
Average P1a [dB]
−5
−10
−15
−20
−25
12
15
18
21
00
12−May
Average P2[dB]
0
−5
−10
−15
−20
−25
12
15
18
21
00
12−May
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
12
15
18
21
00
12−May
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

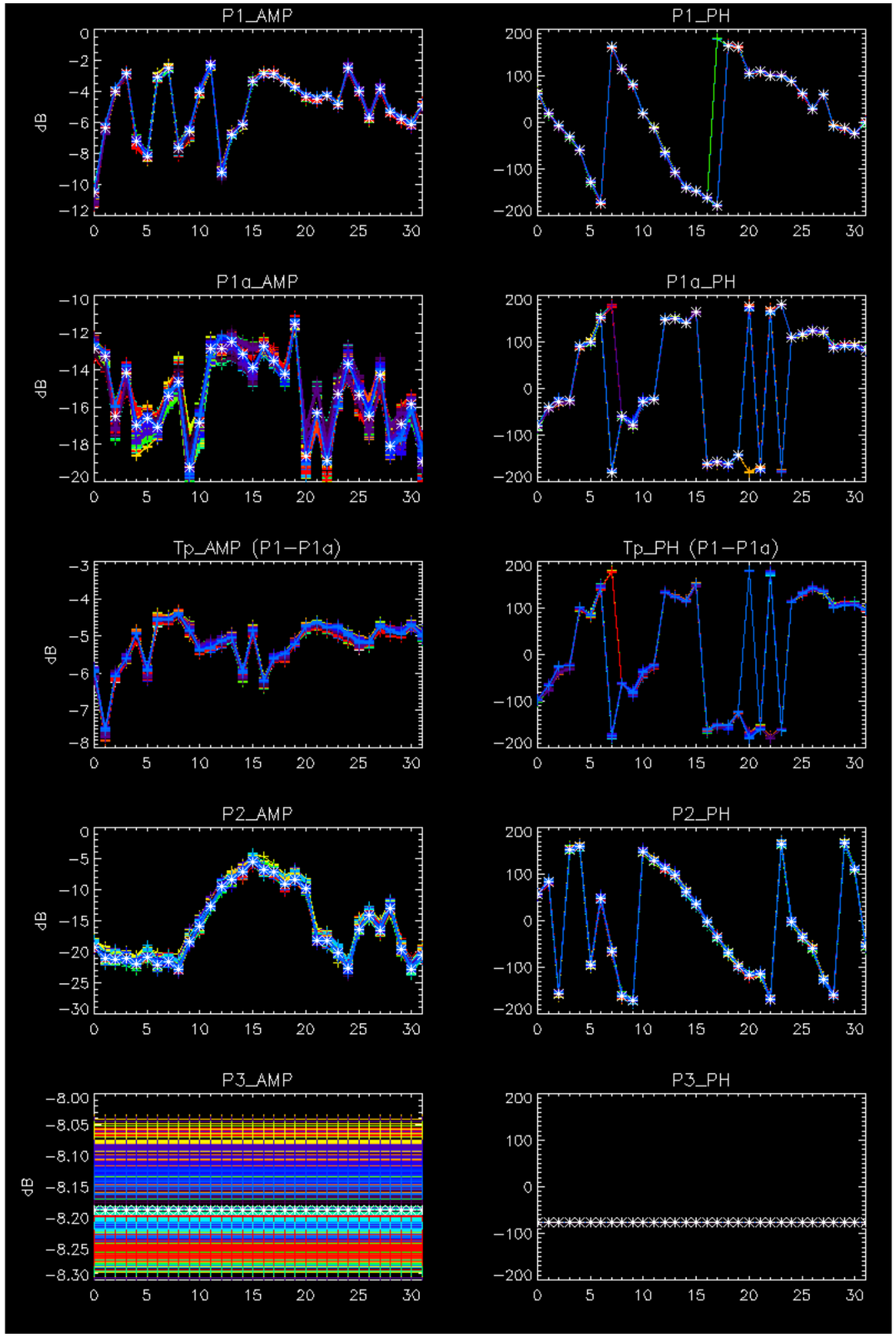

Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
11−Apr
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

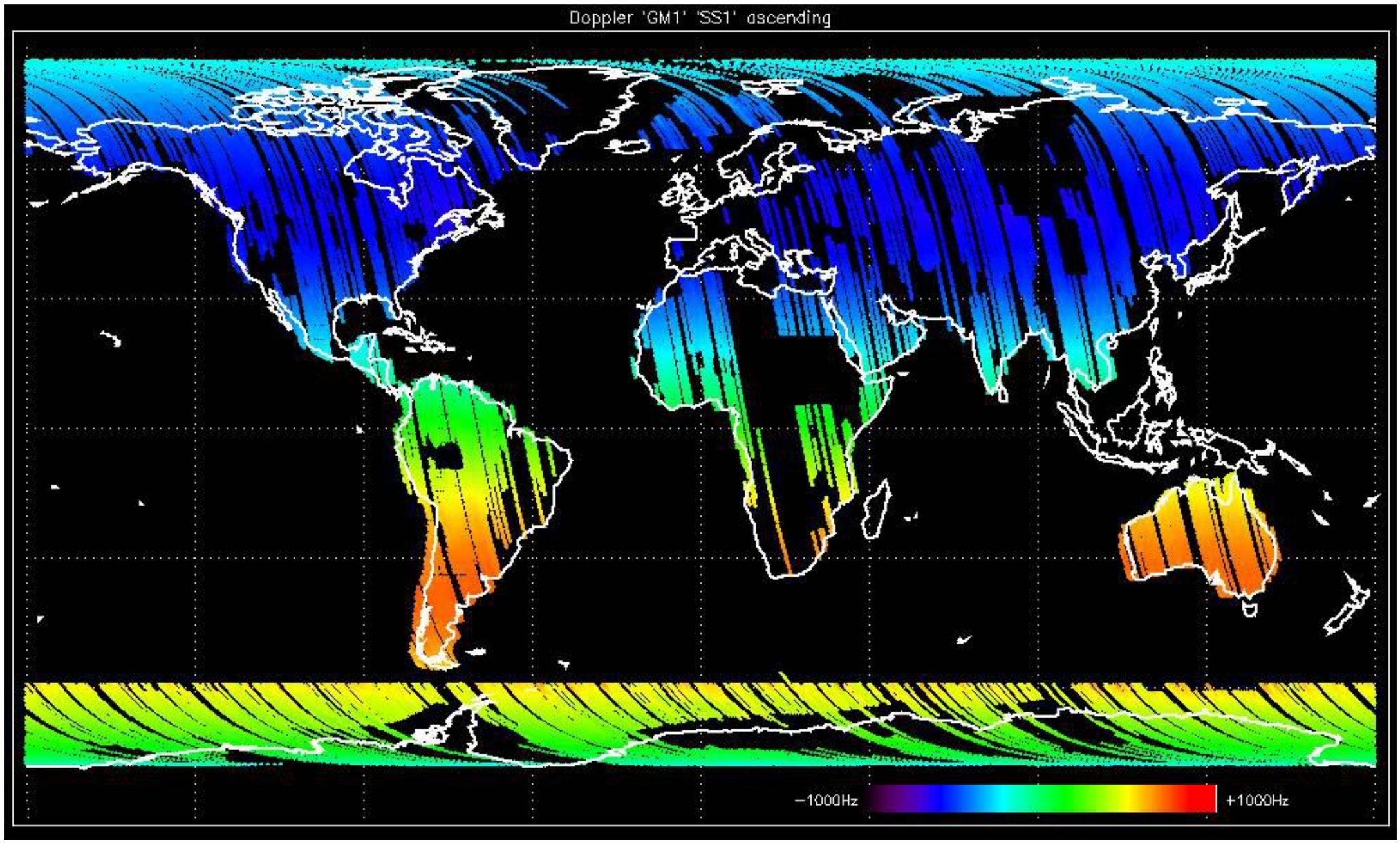
No anomalies observed.

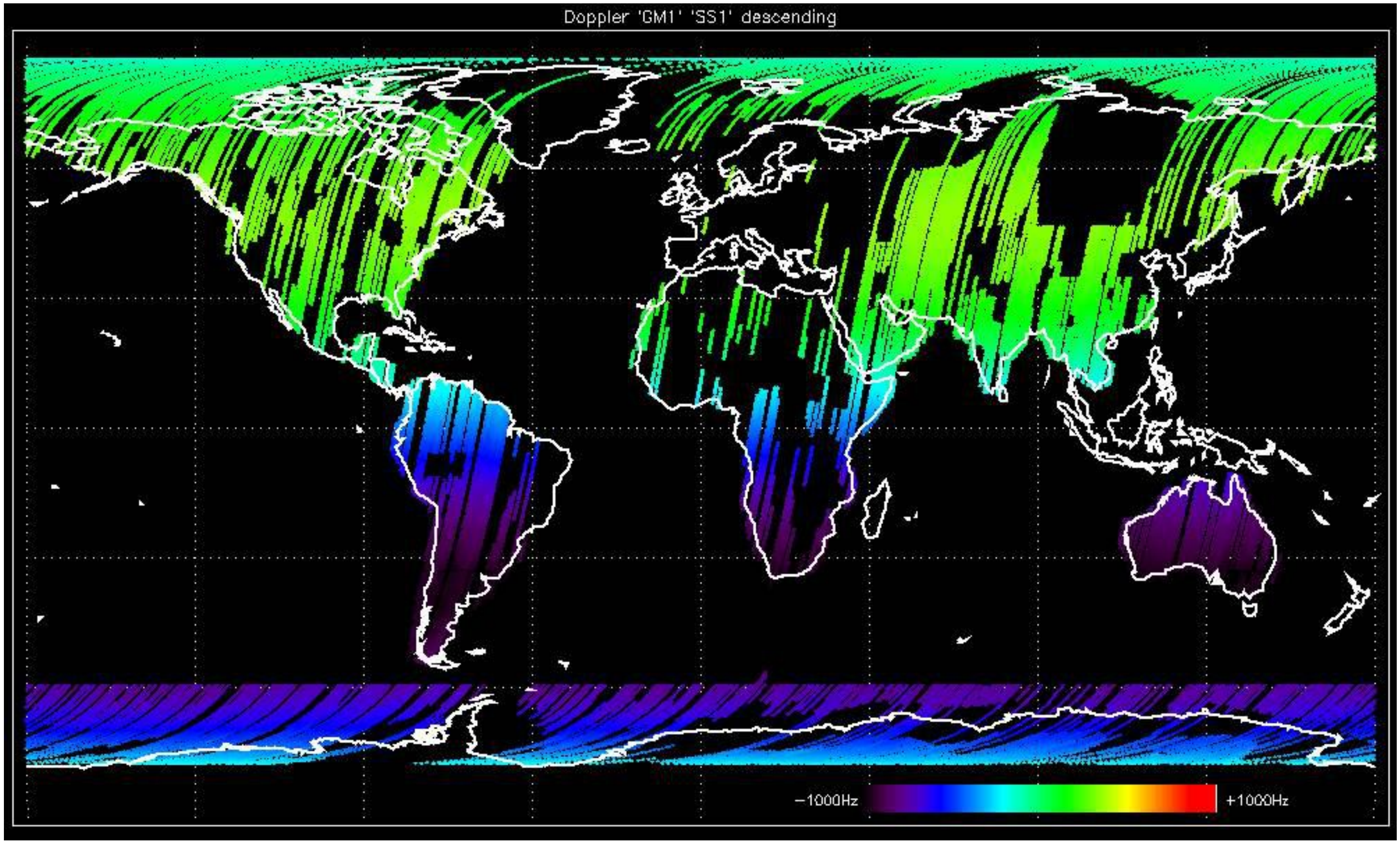

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

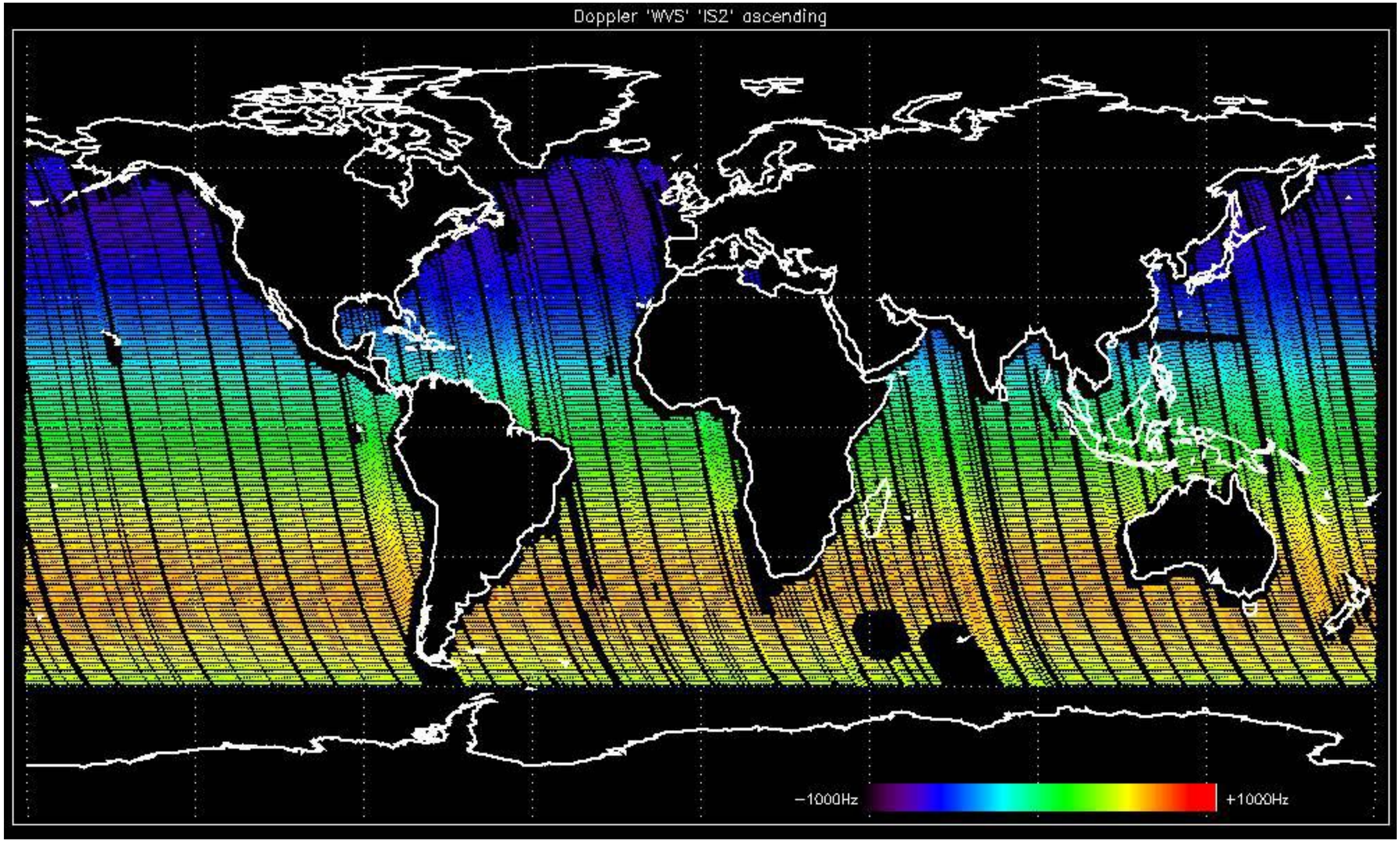

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

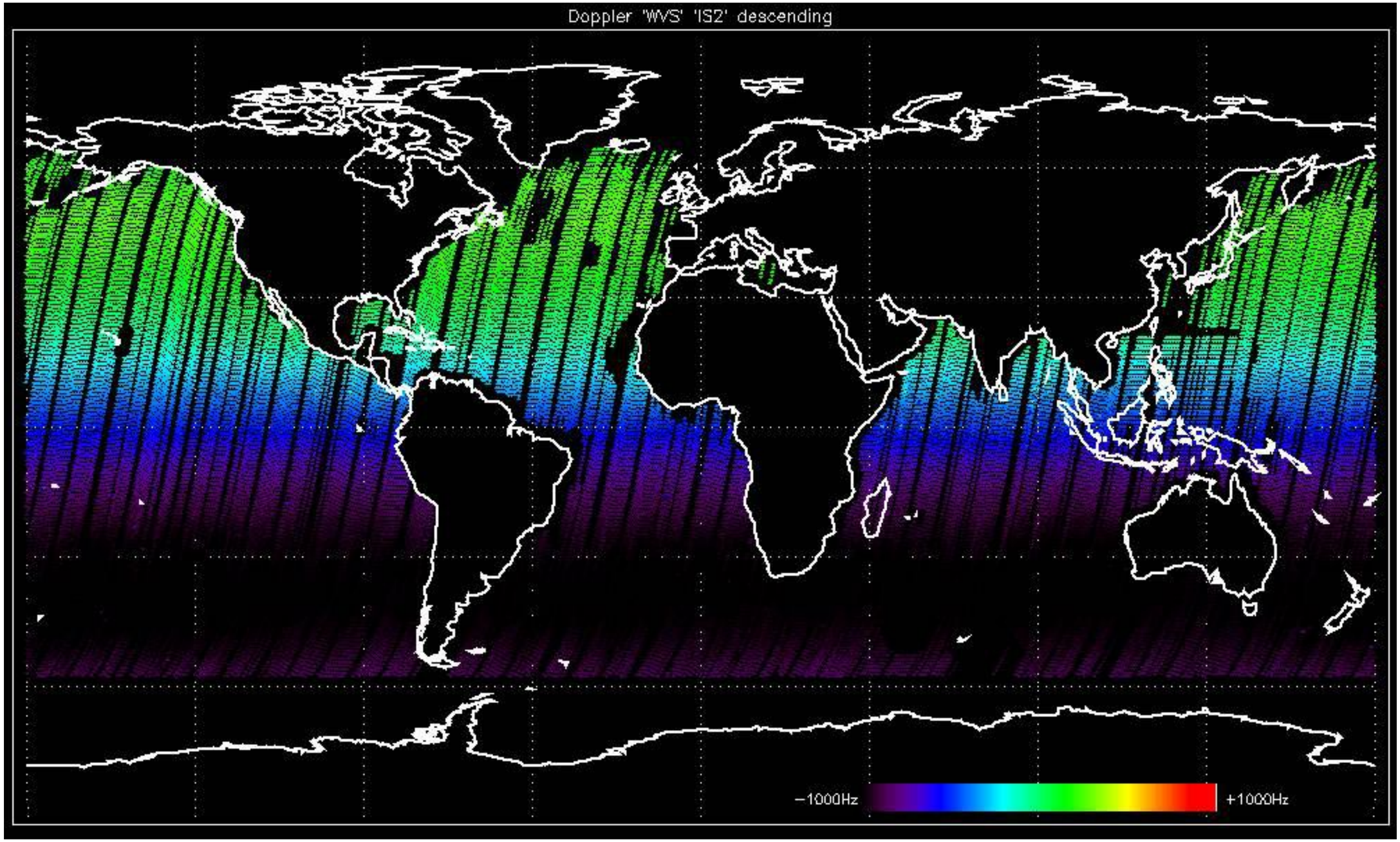
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

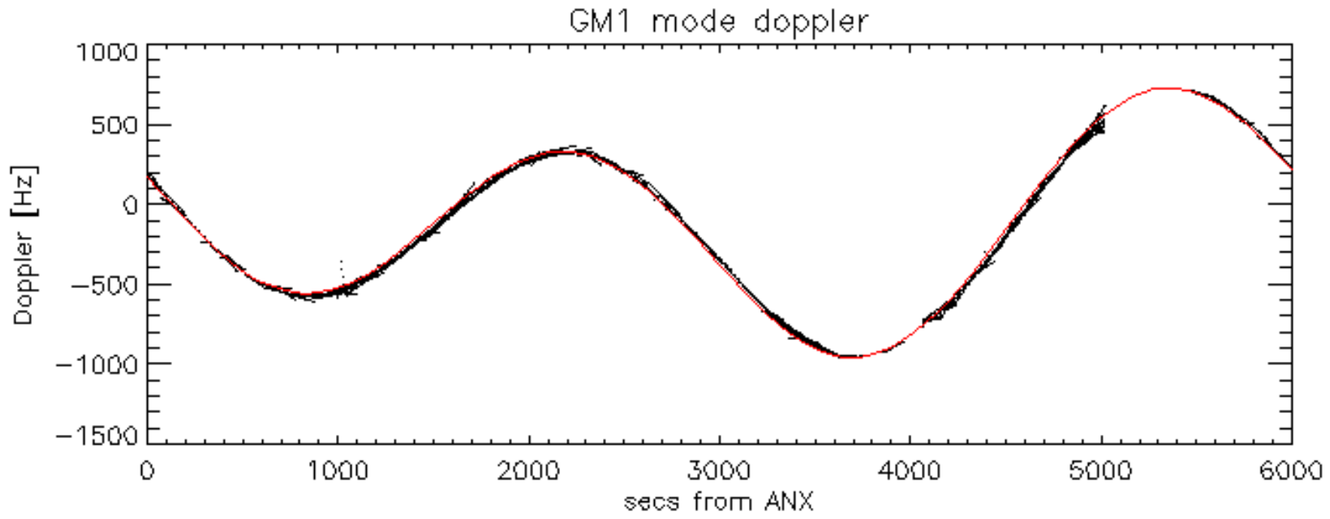
Preliminary report.The data is not yet controled

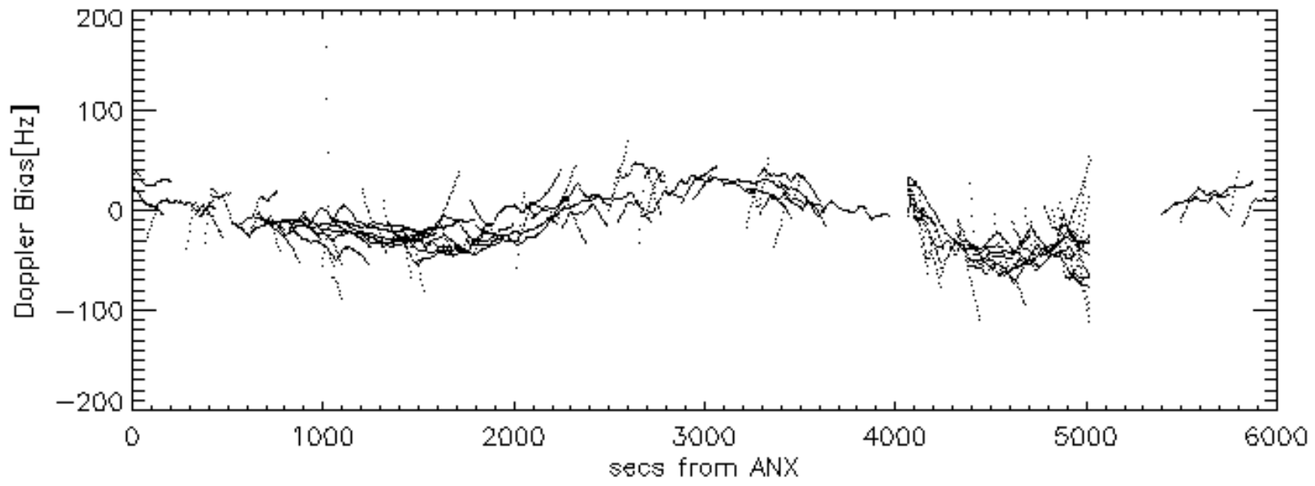

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

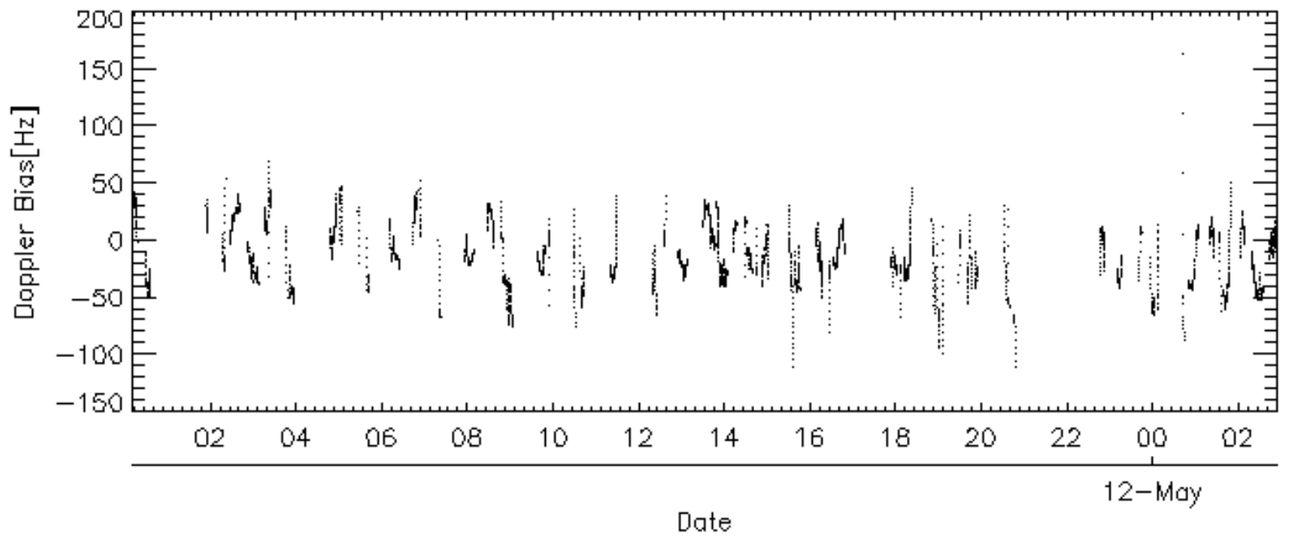

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

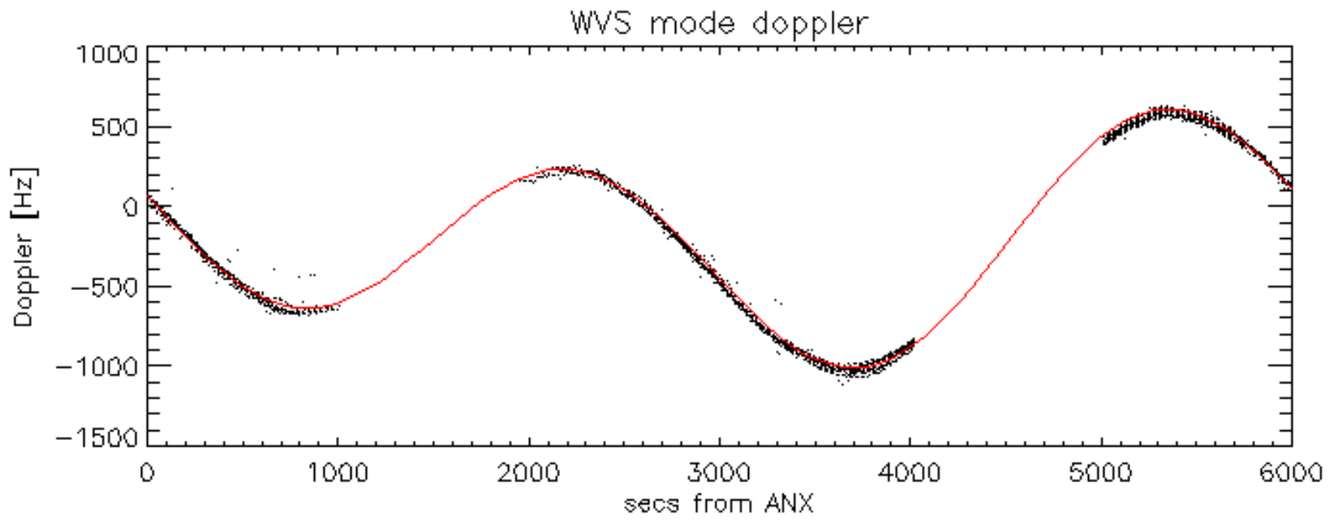

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

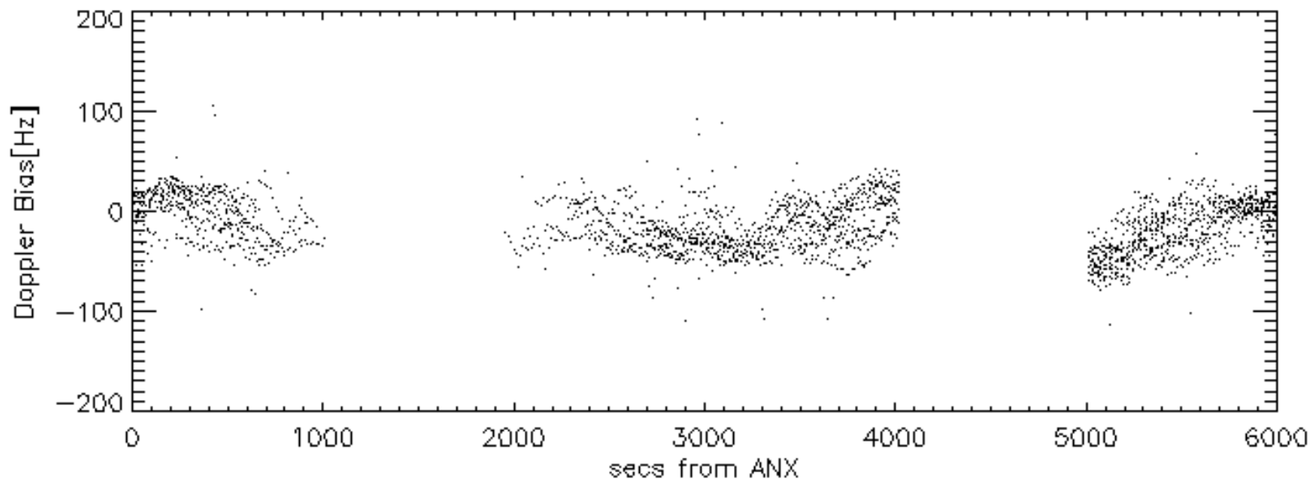

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

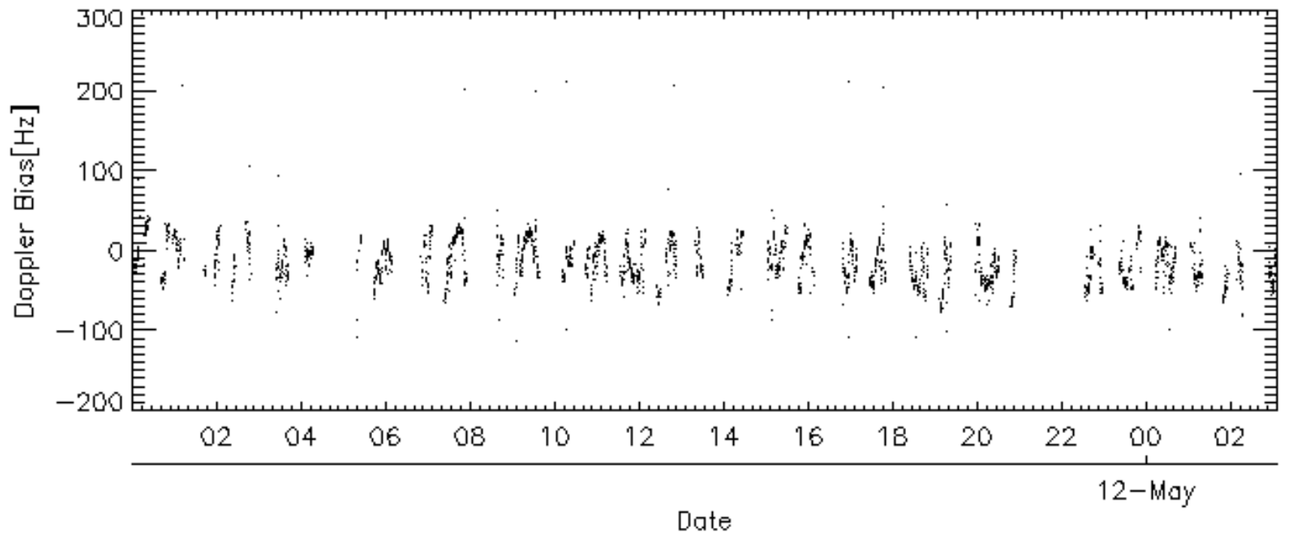

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

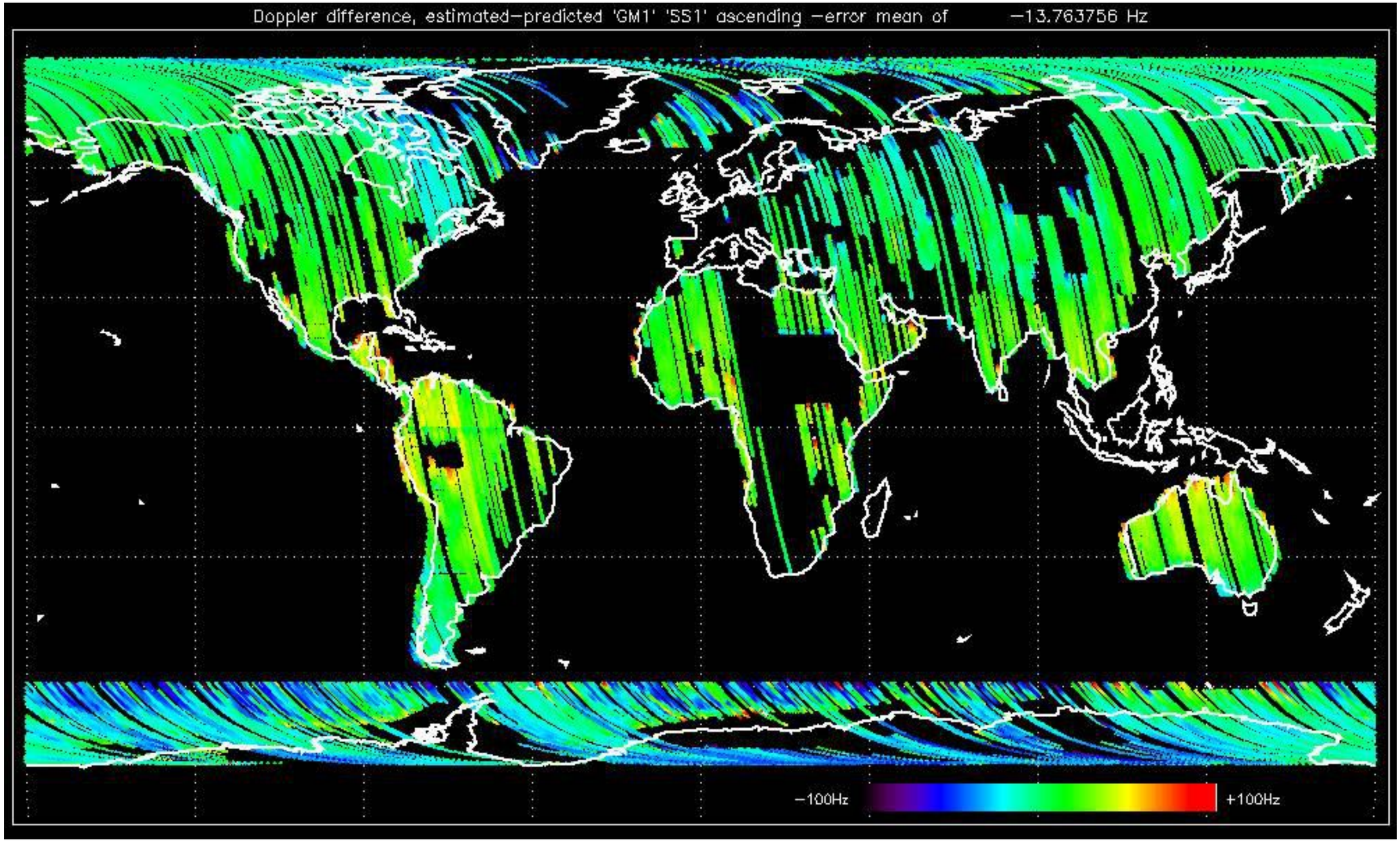

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

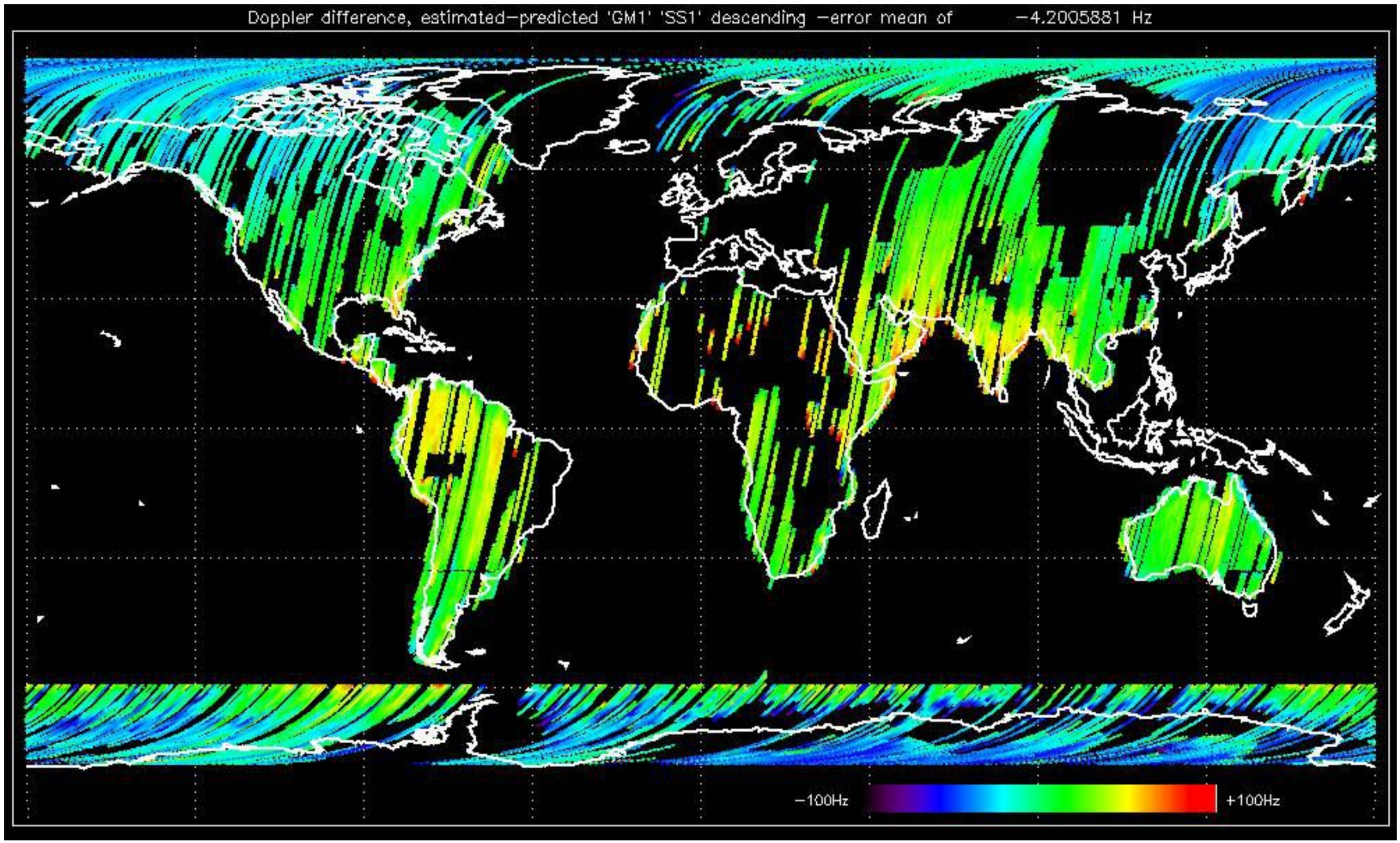

Doppler Bias[Hz]
200
150
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
12−May
Date

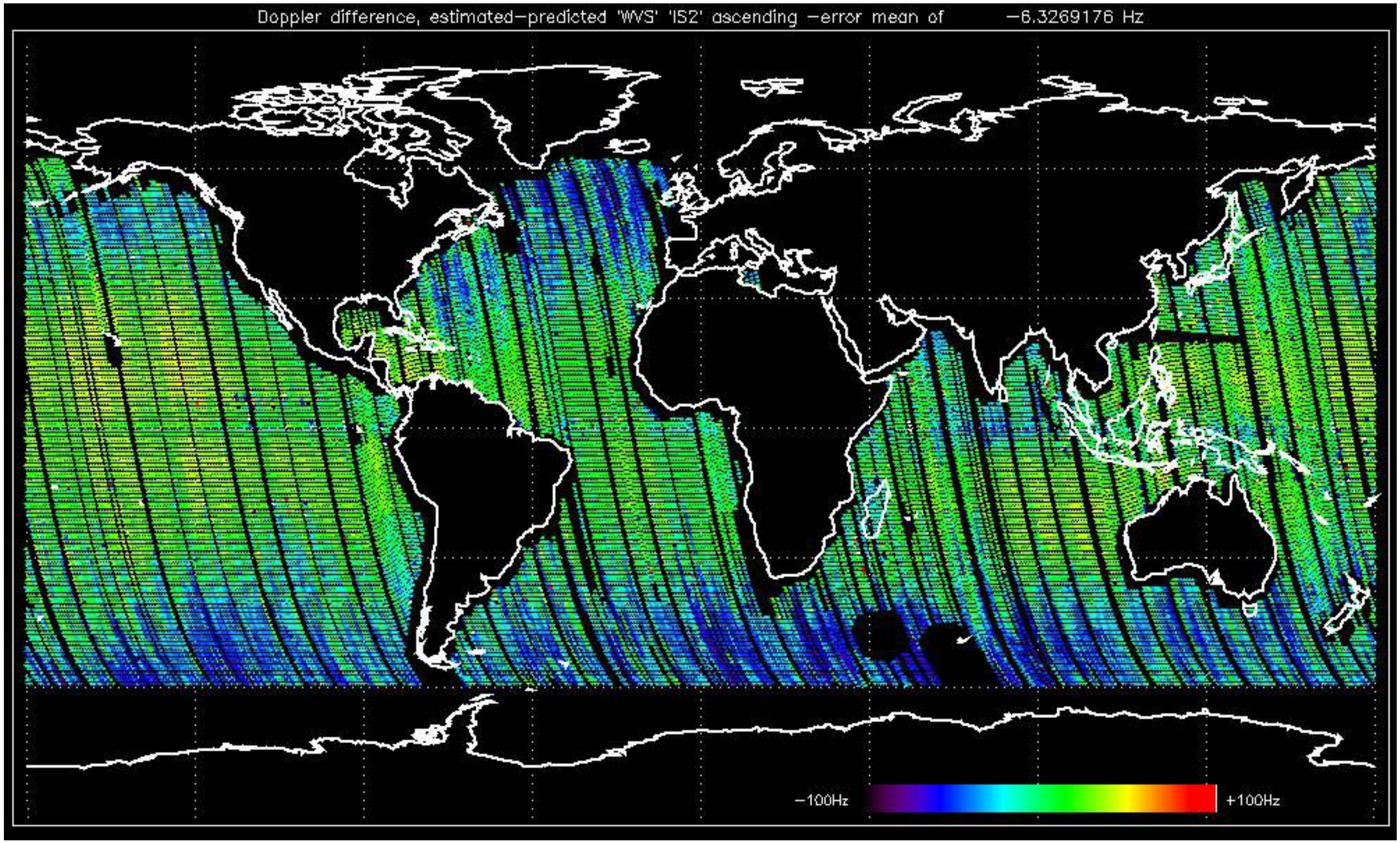

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

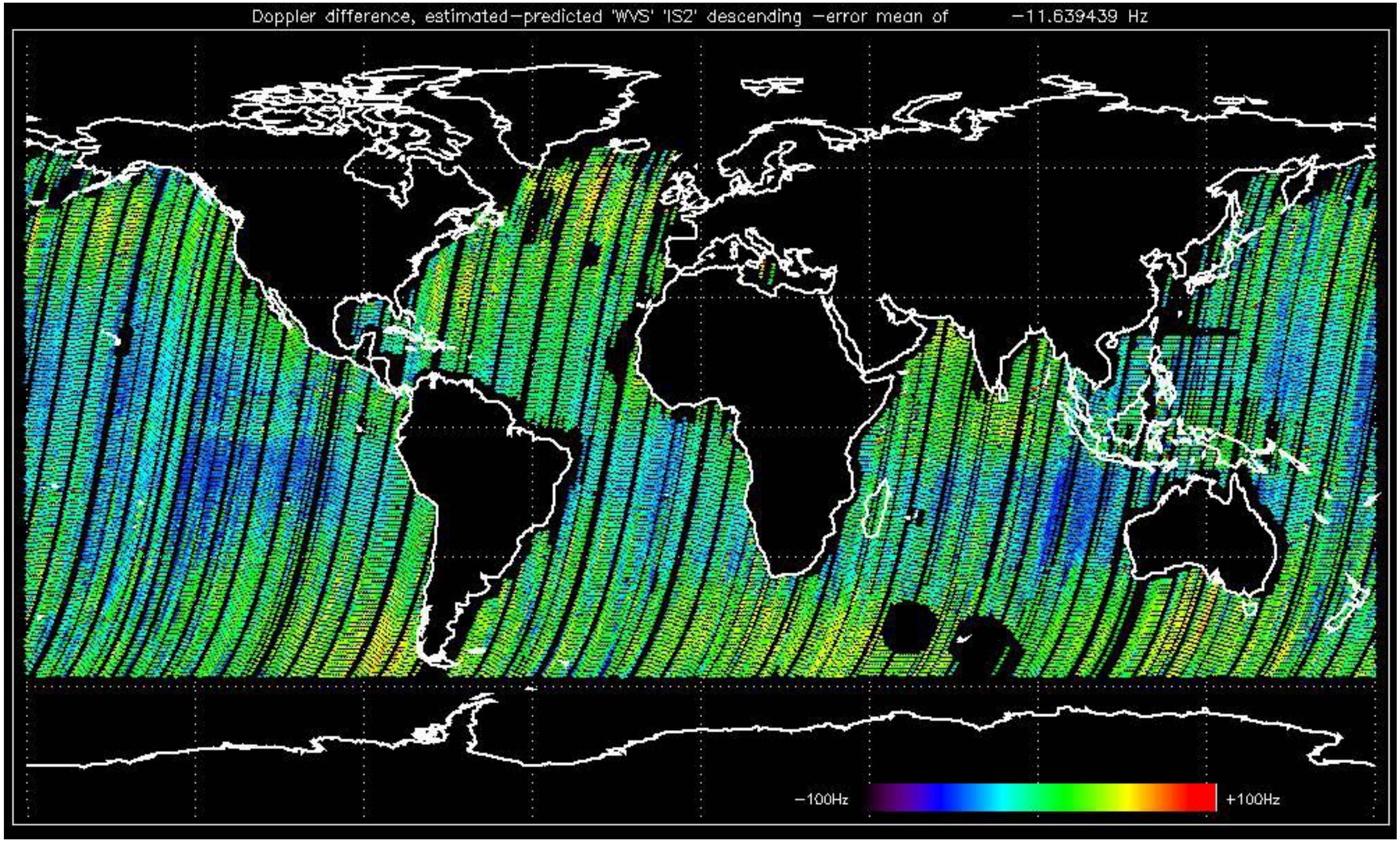

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −13.763756 Hz
−100Hz
+100Hz

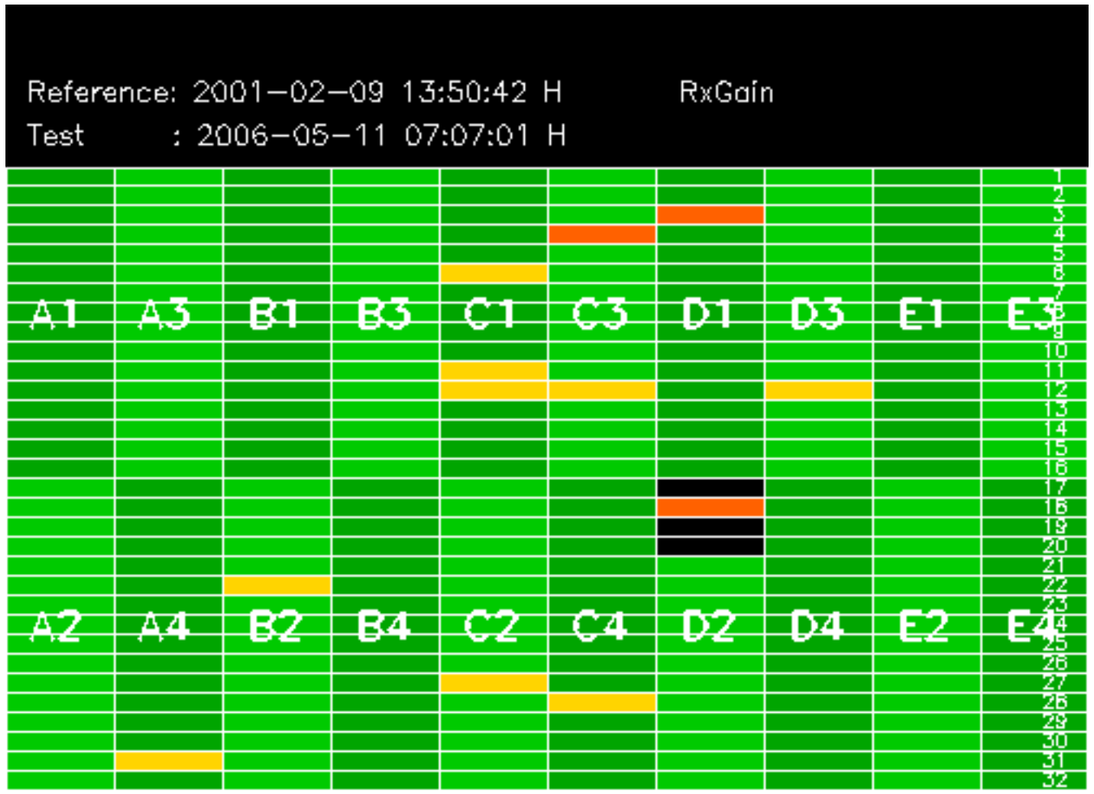

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −4.2005881 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −6.3269176 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −11.639439 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-11 07:07:01 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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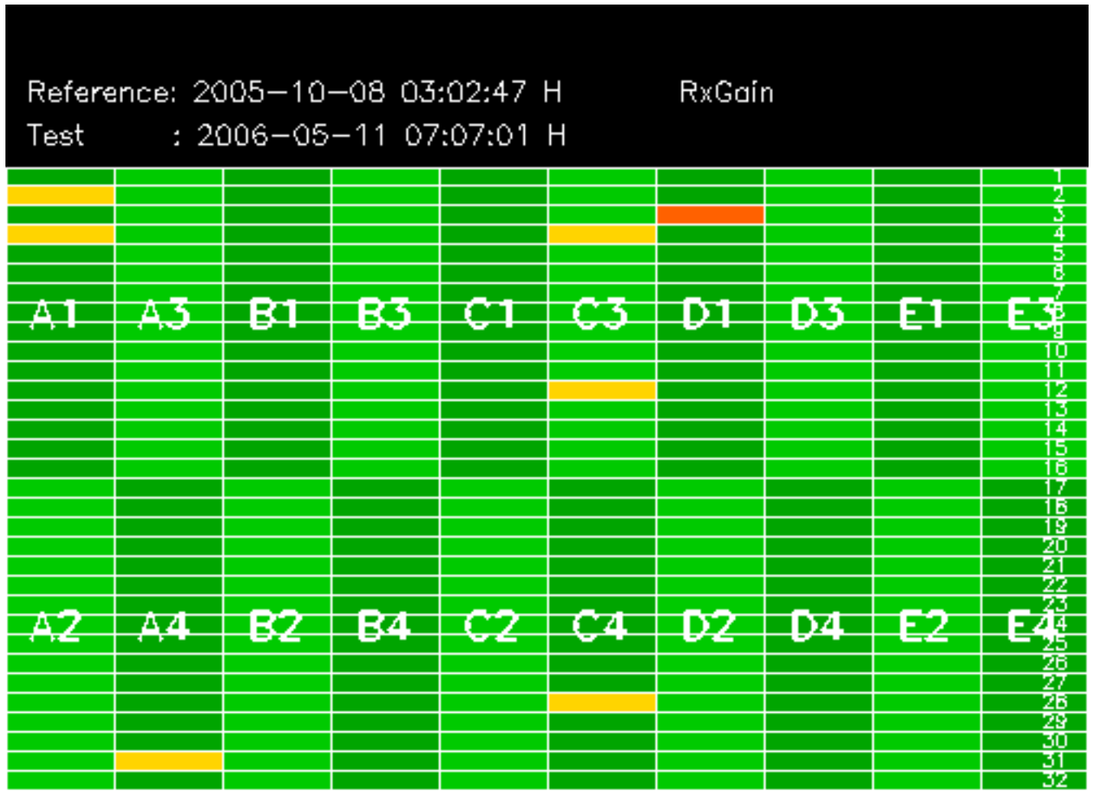
Reference: 2005-10-08 03:02:47 H
Test : 2006-05-11 07:07:01 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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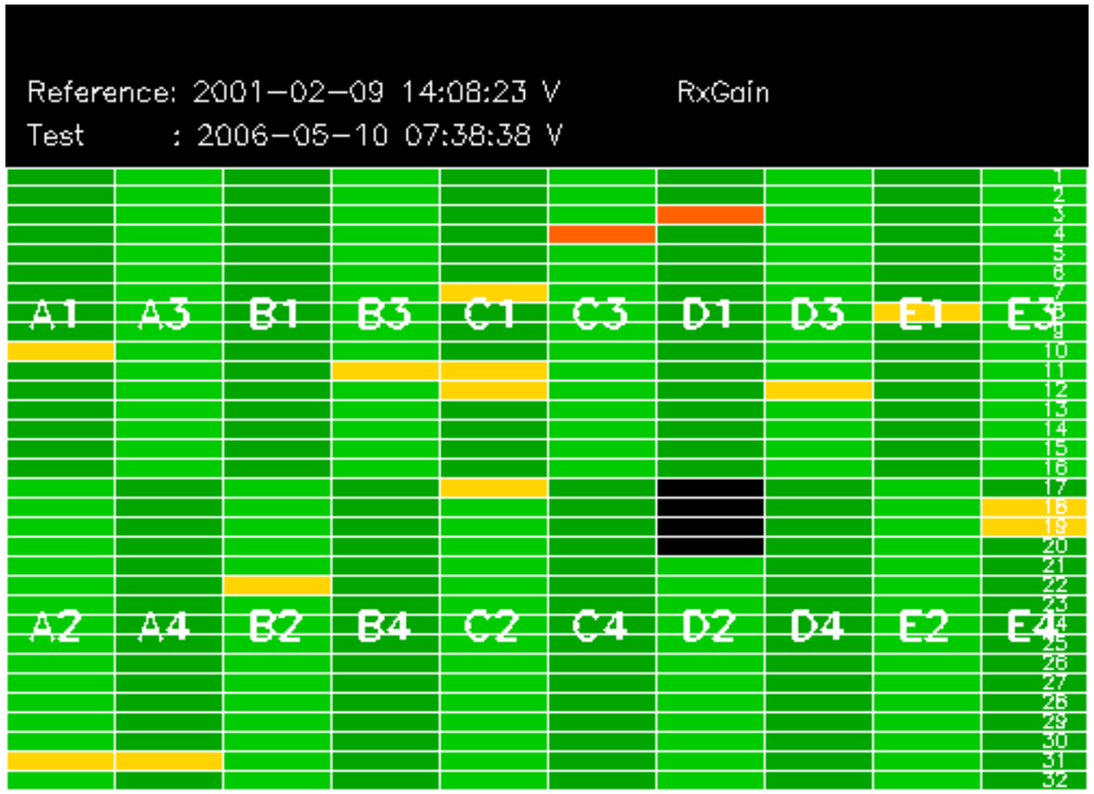
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-10 07:38:38 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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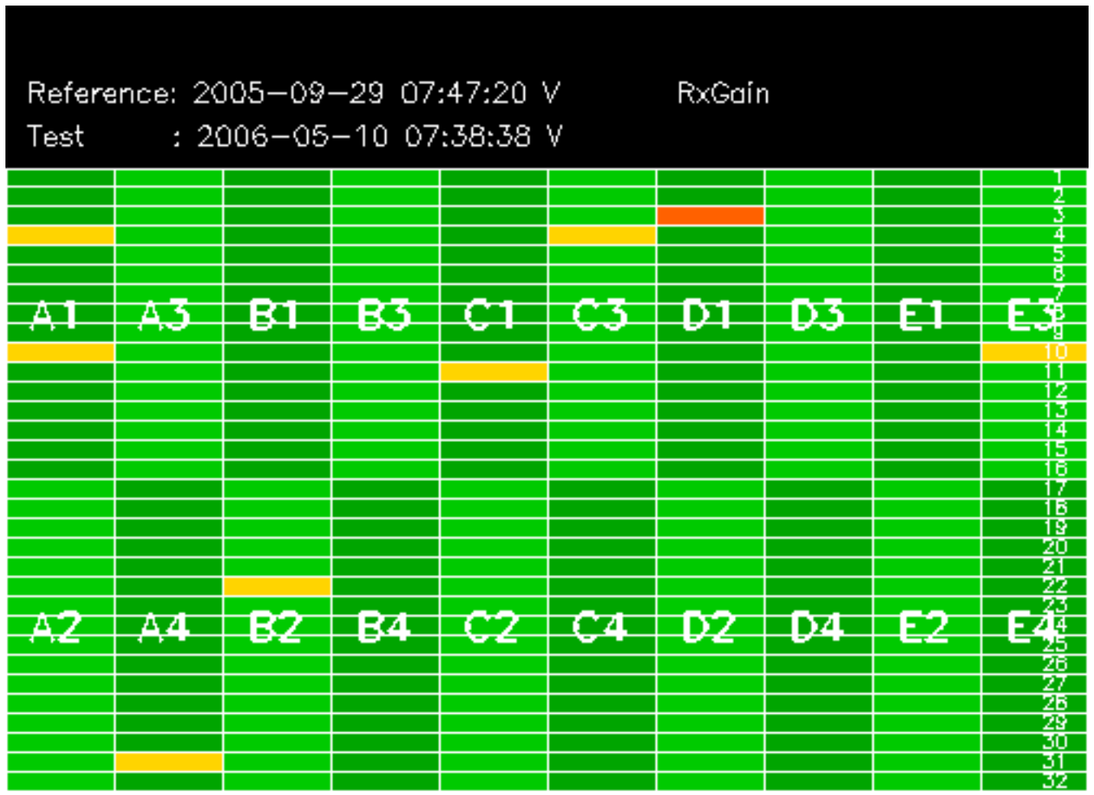
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-10 07:38:38 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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E4
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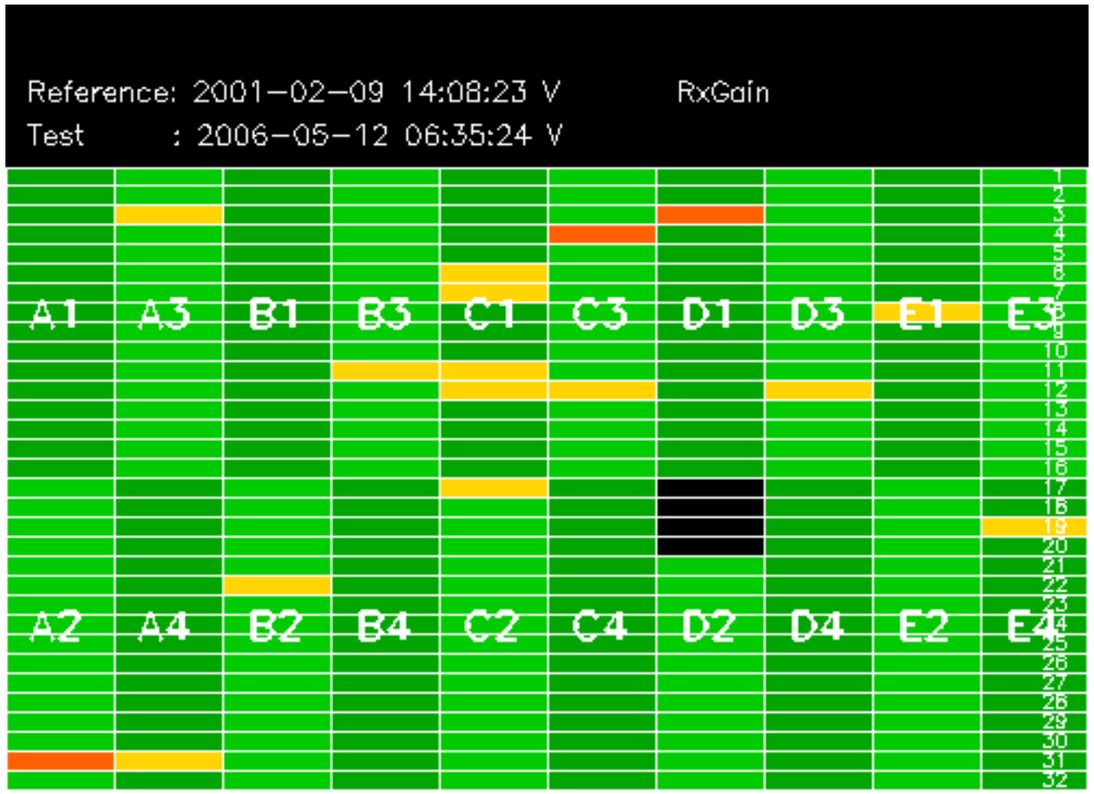
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-12 06:35:24 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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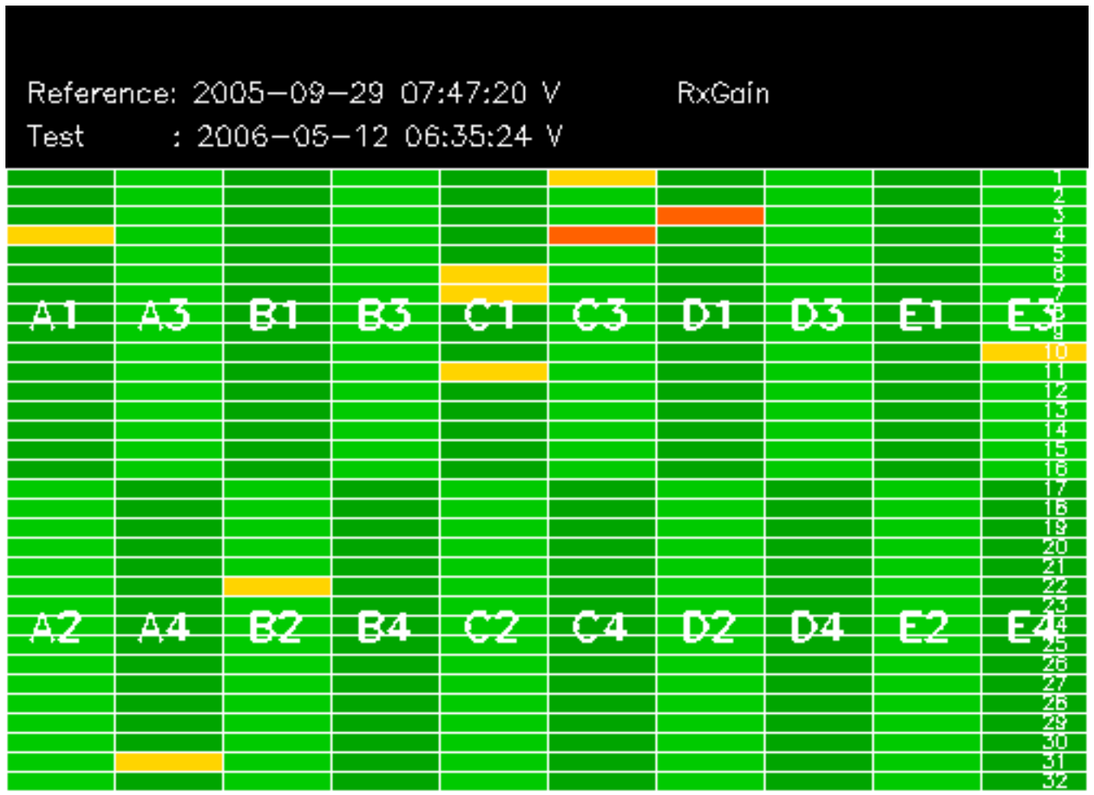
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-12 06:35:24 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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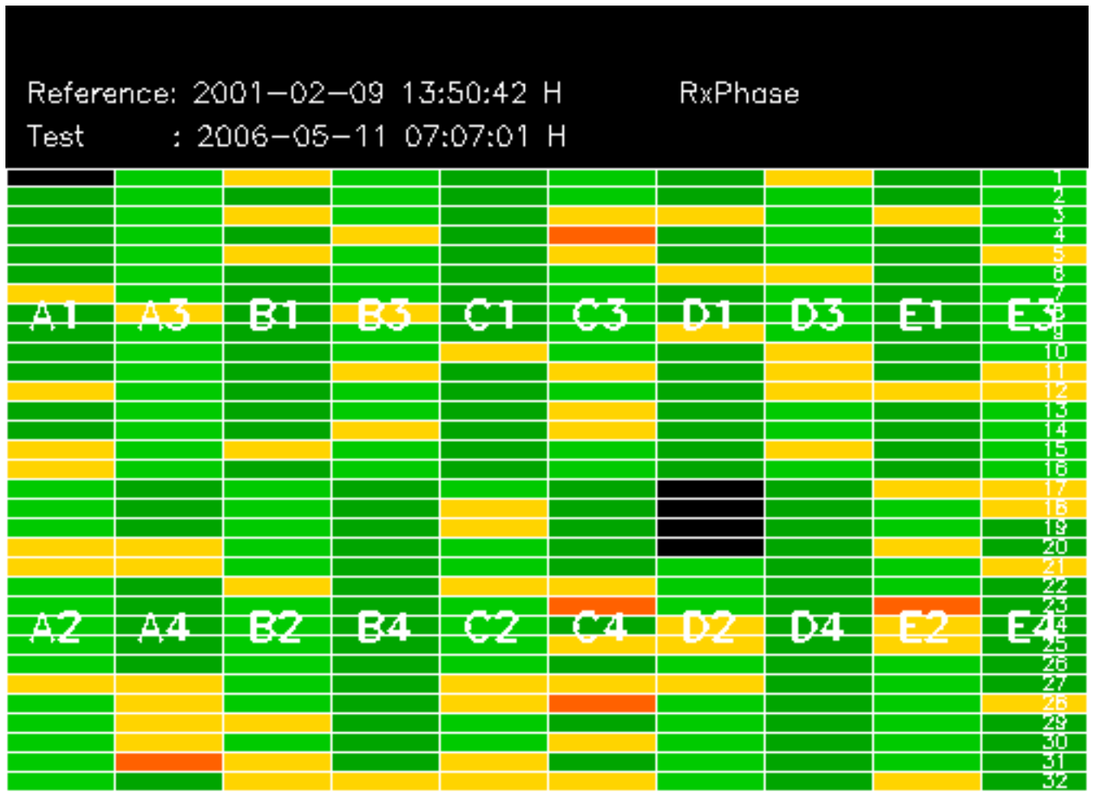
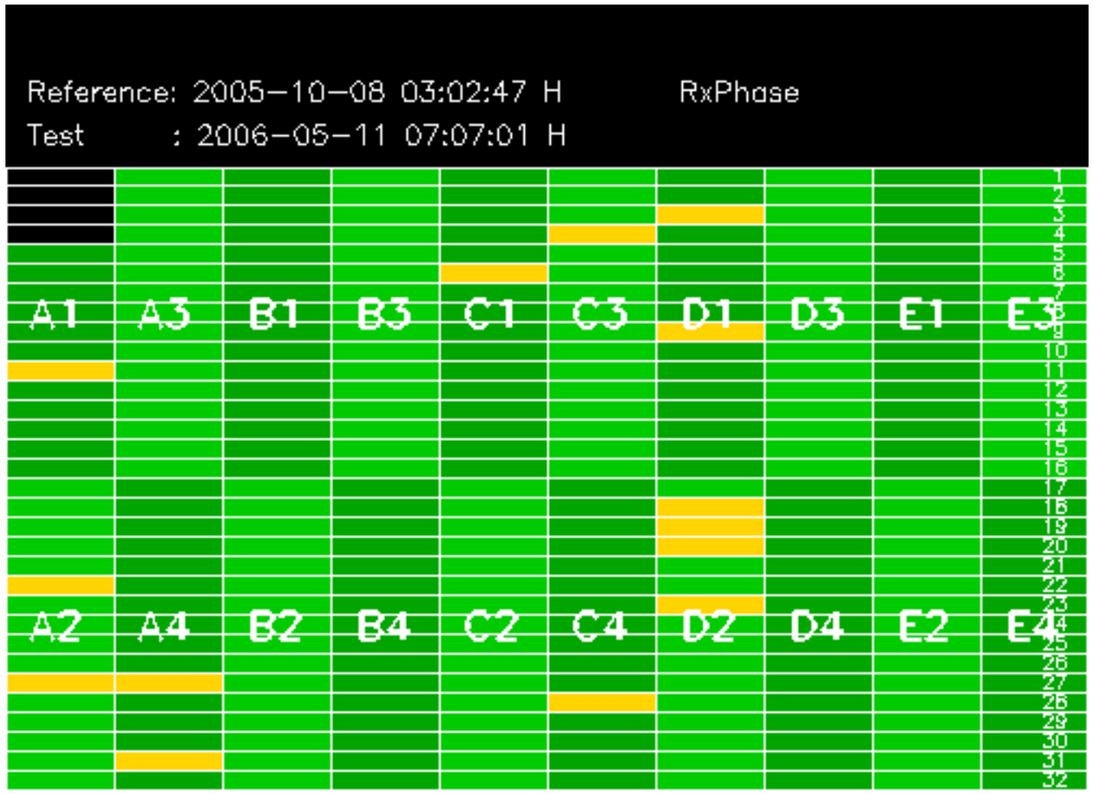

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-05-11 07:07:01 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-05-11 07:07:01 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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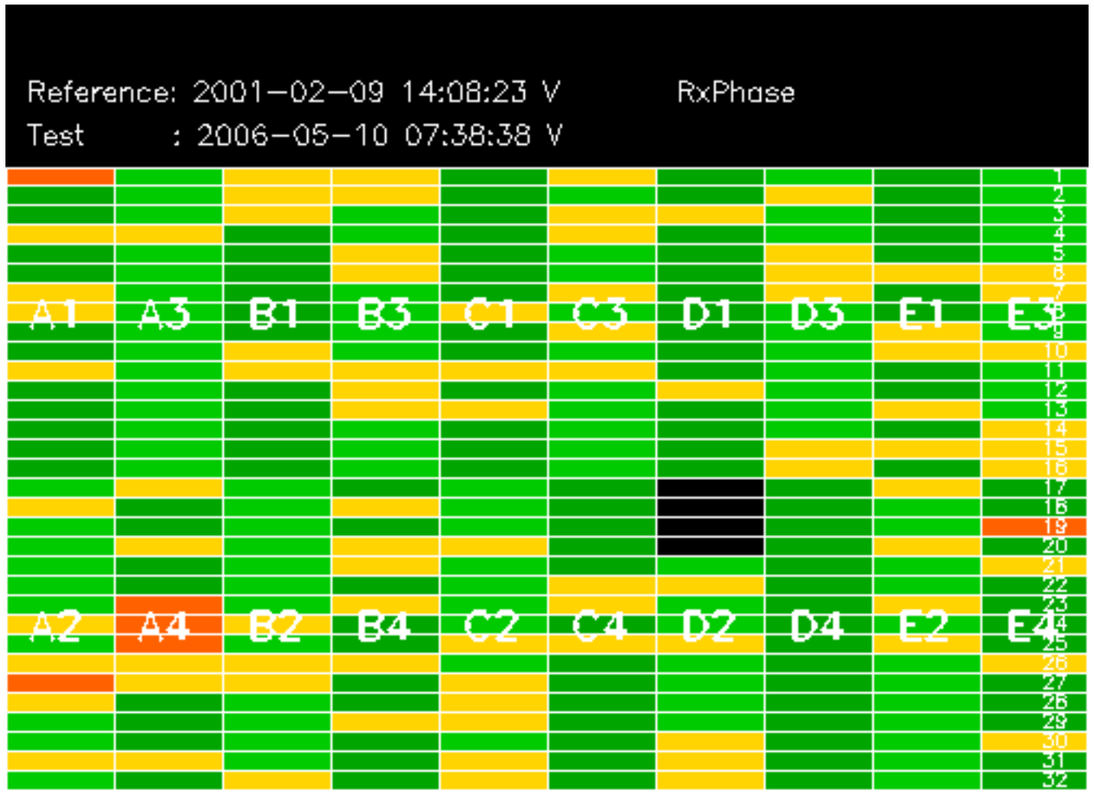
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-10 07:38:38 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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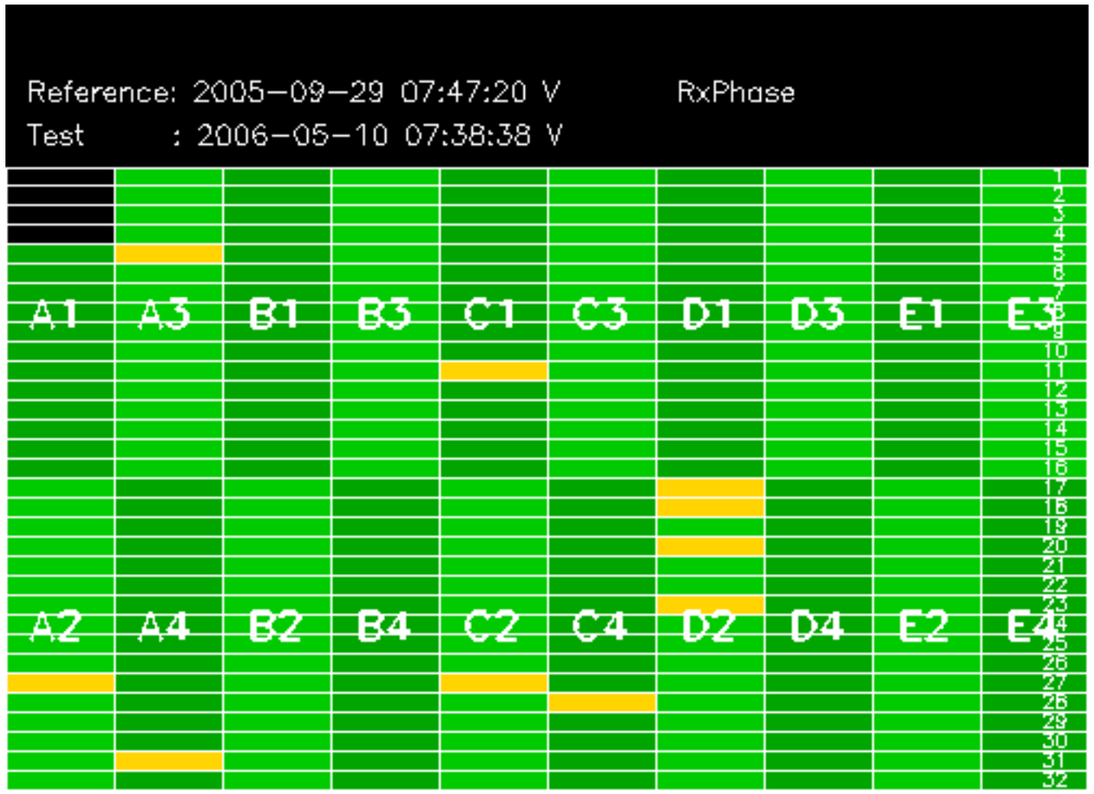
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-10 07:38:38 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
E2
E4
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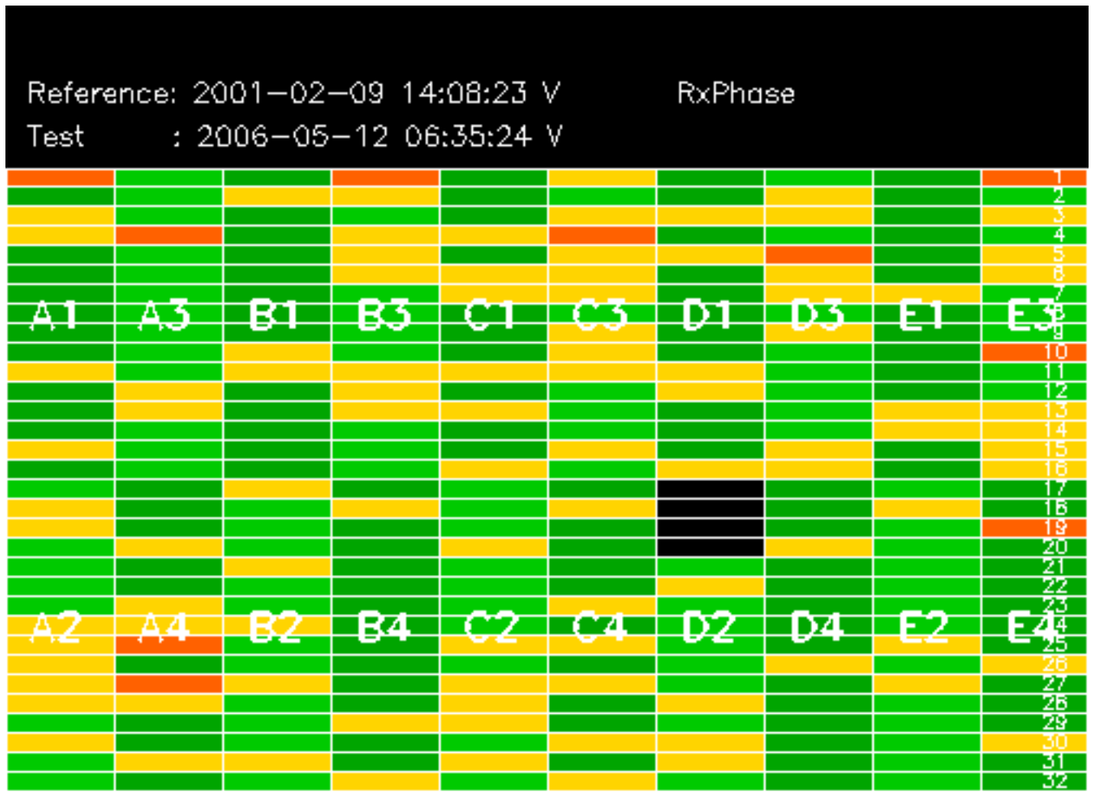
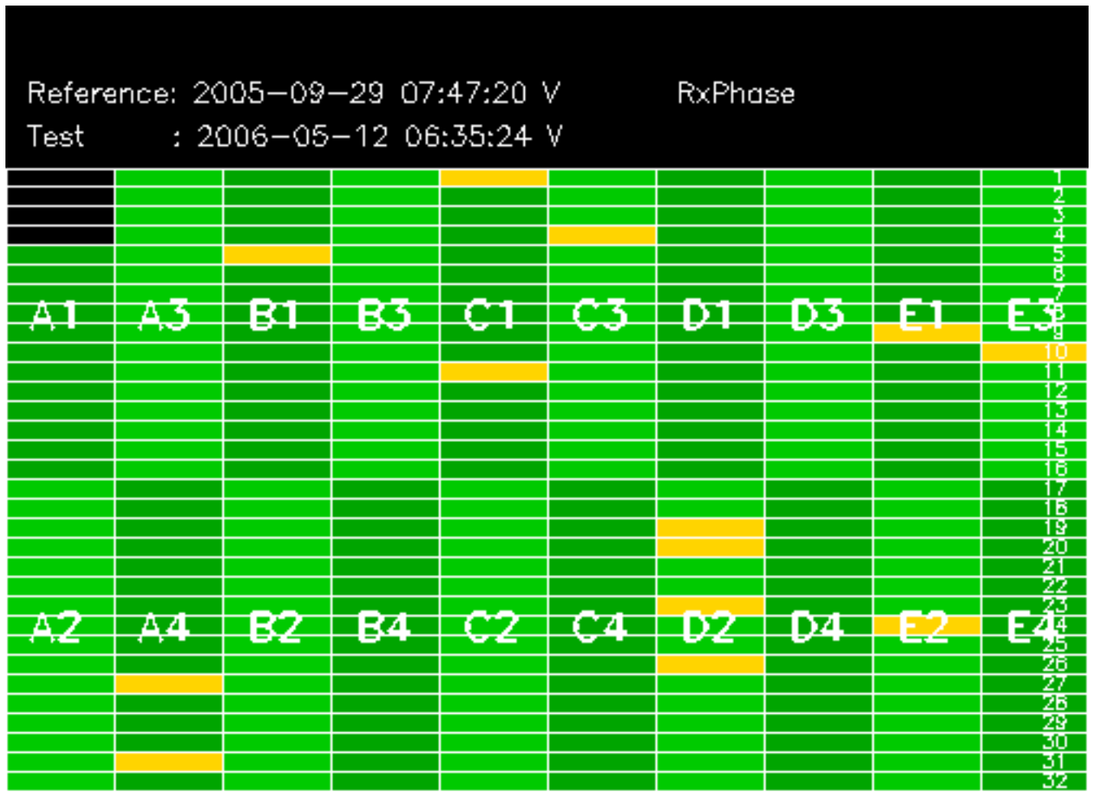

Reference: 2001-02-09 14:08:23 V
Test : 2006-05-12 06:35:24 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-05-12 06:35:24 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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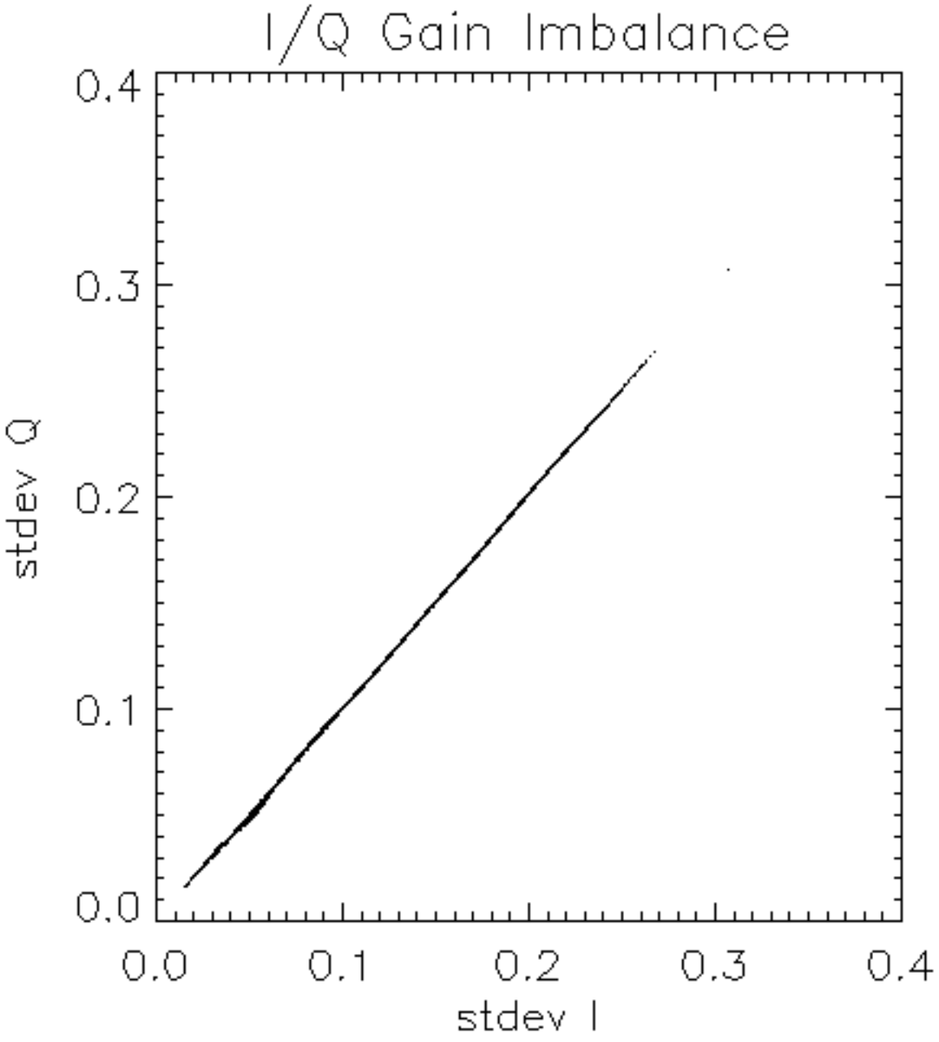
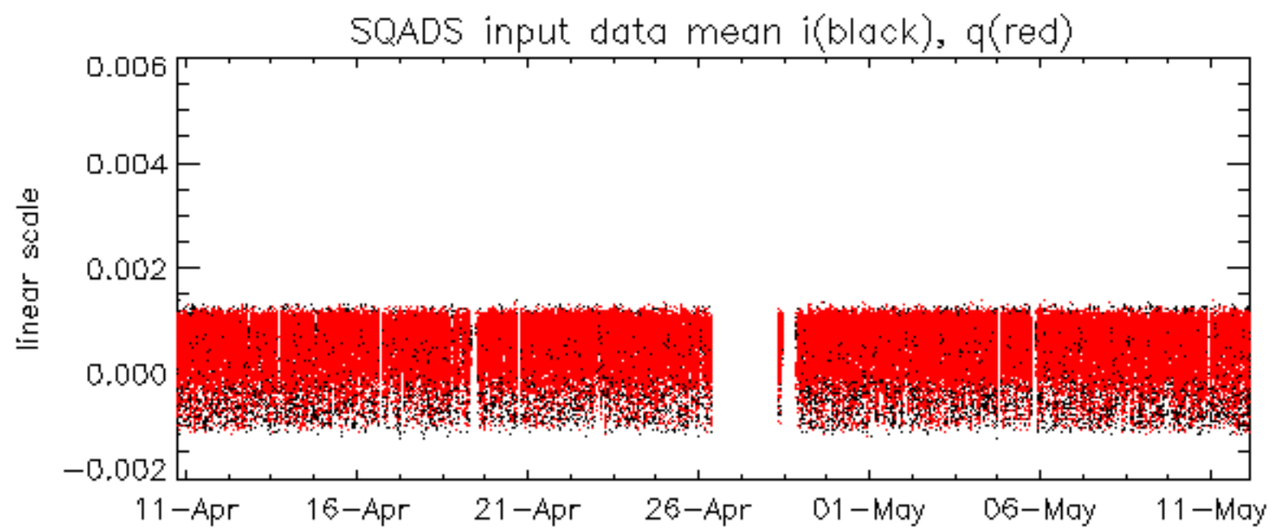
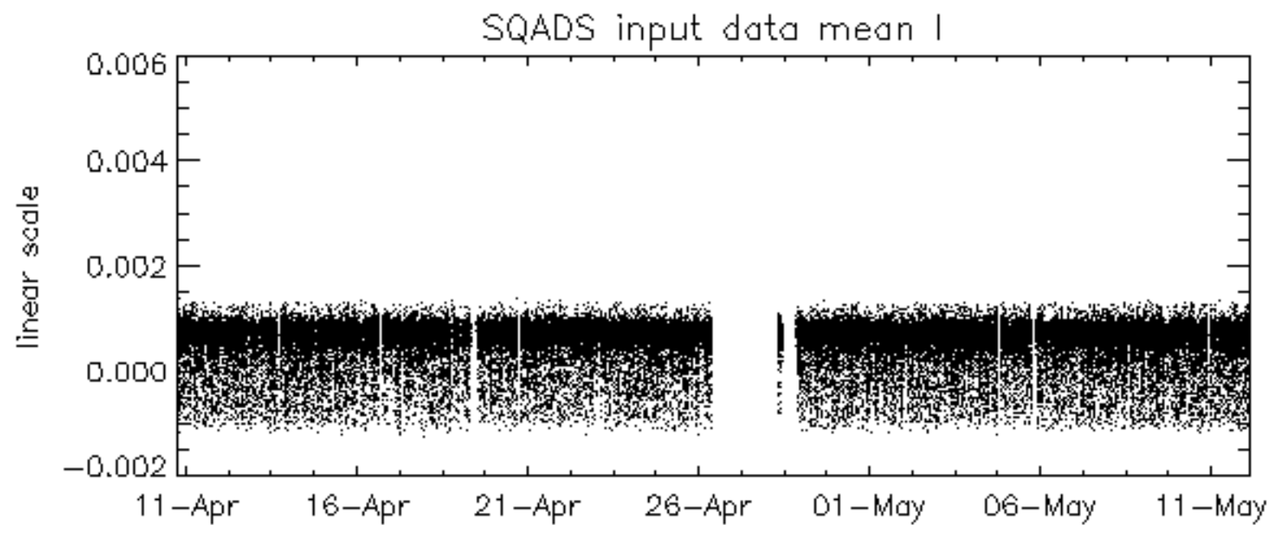
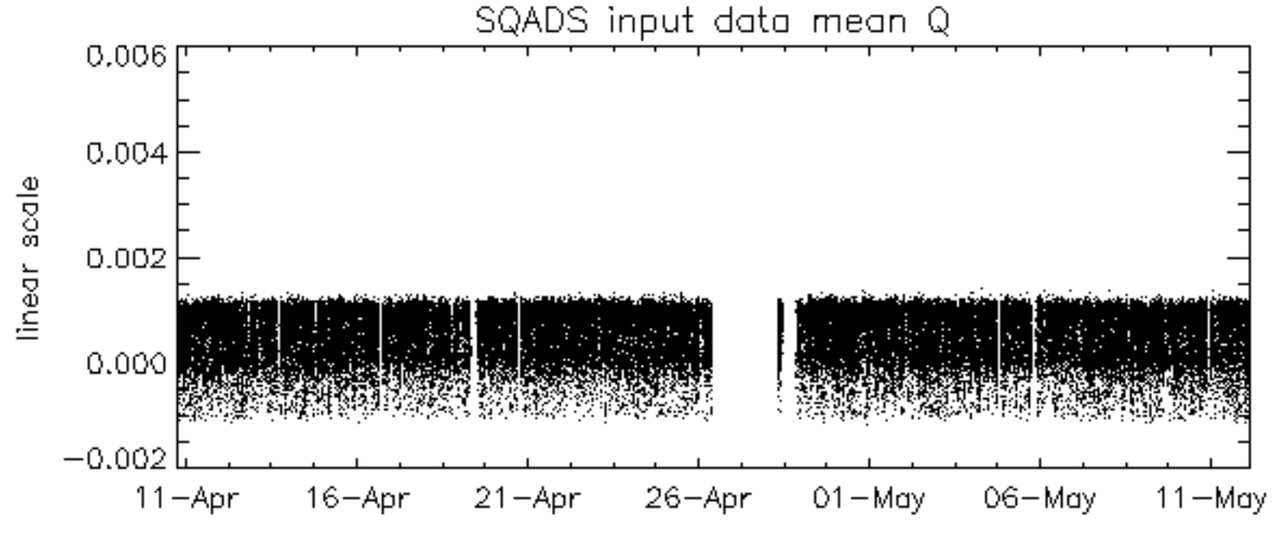
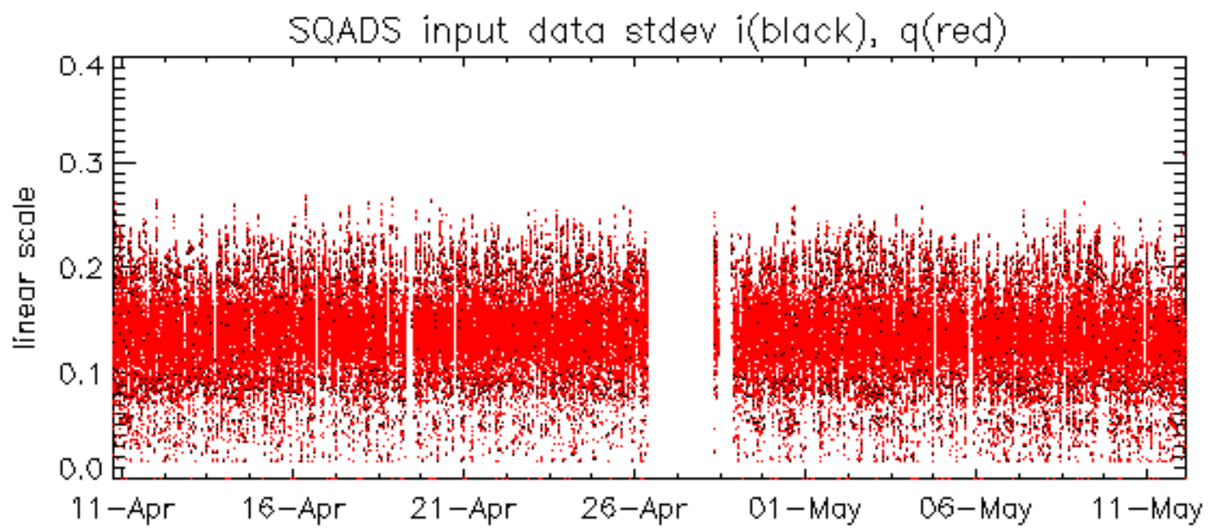
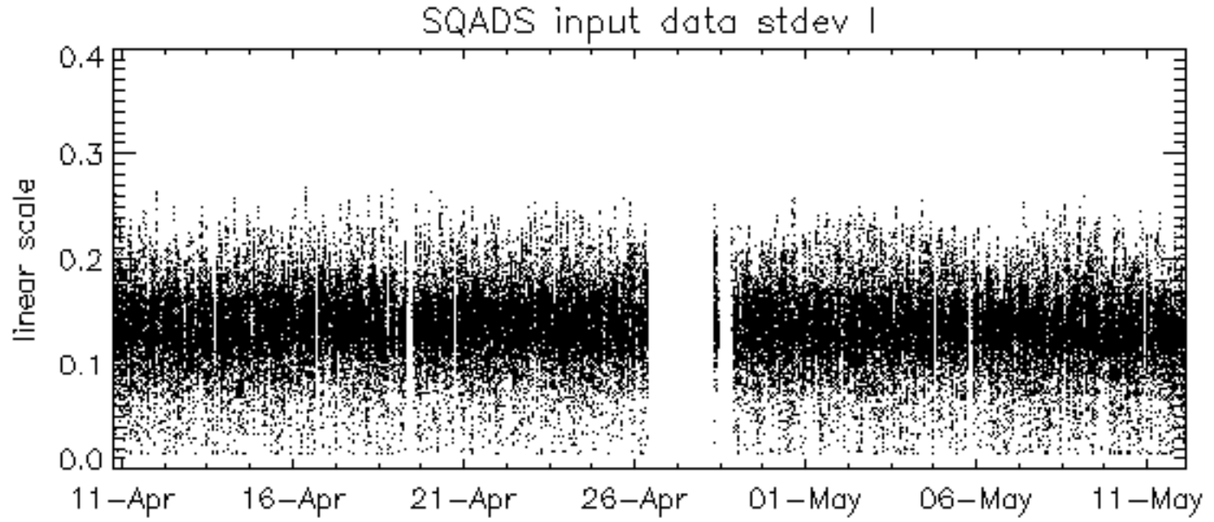

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

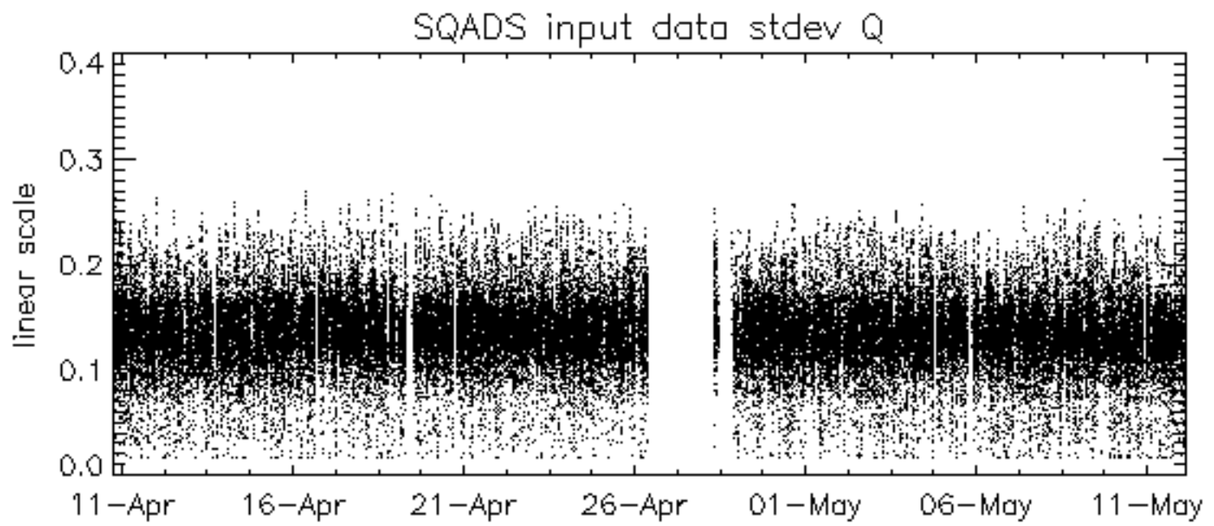

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Apr
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May

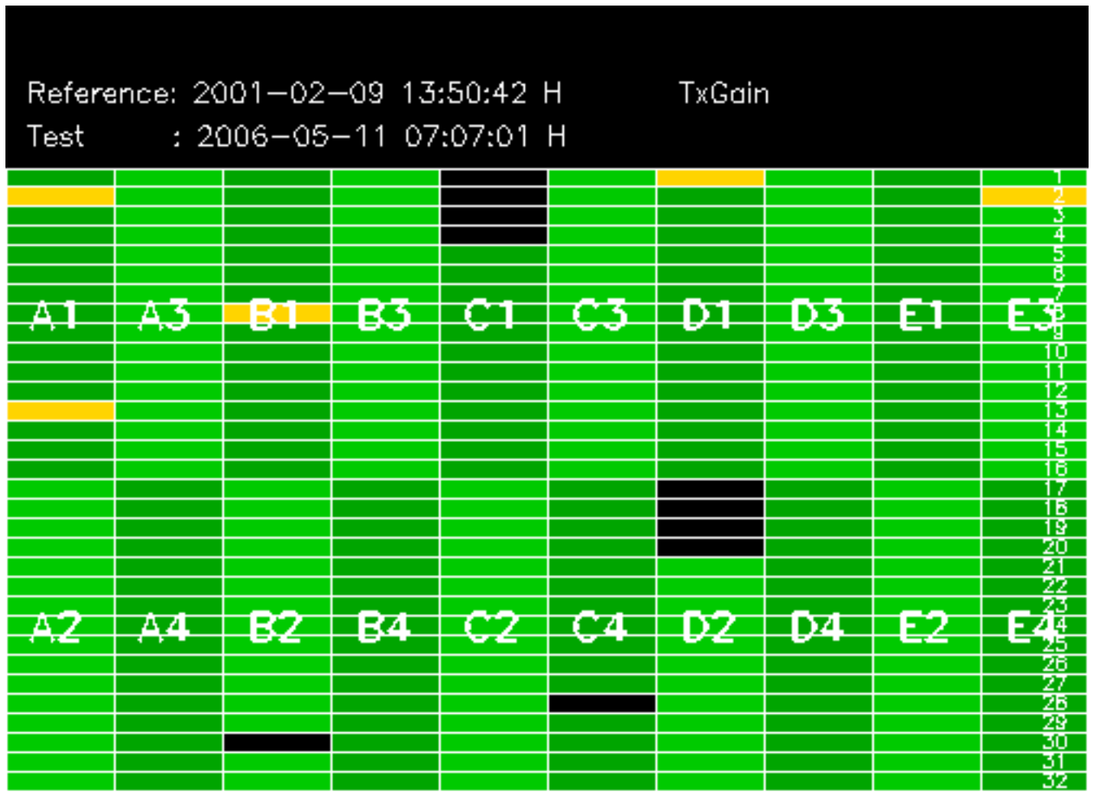

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Apr
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-11 07:07:01 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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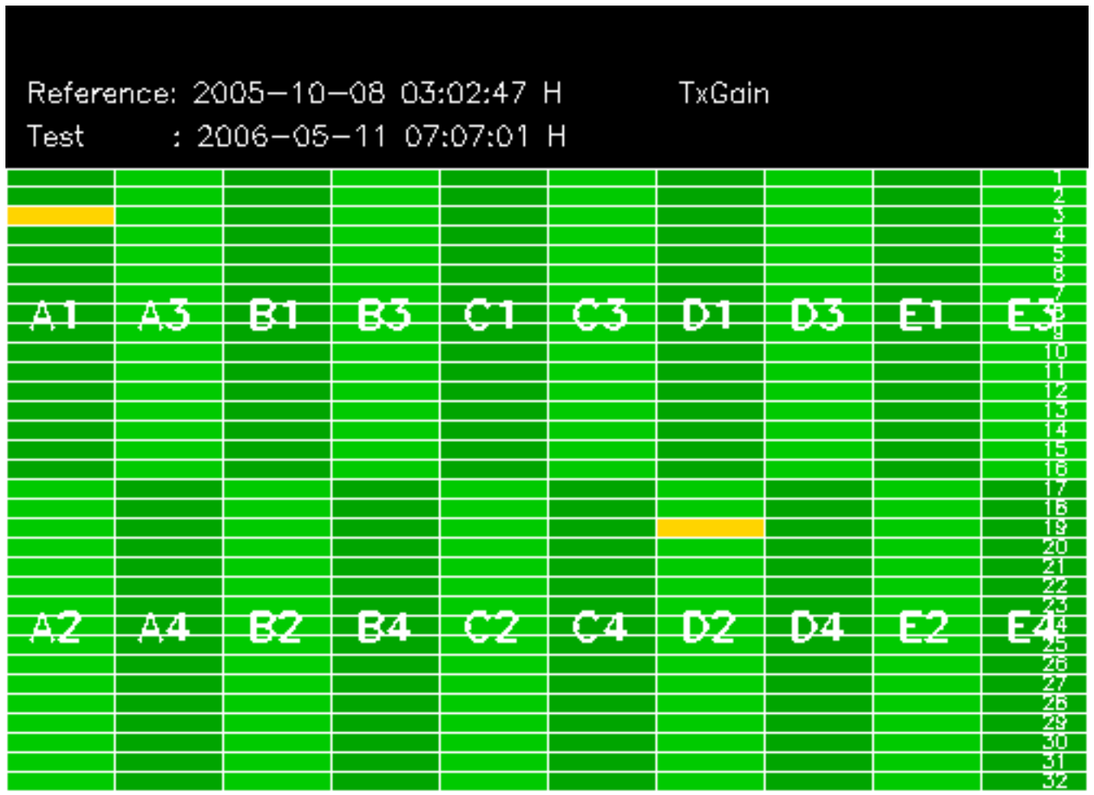
Reference: 2005-10-08 03:02:47 H
Test : 2006-05-11 07:07:01 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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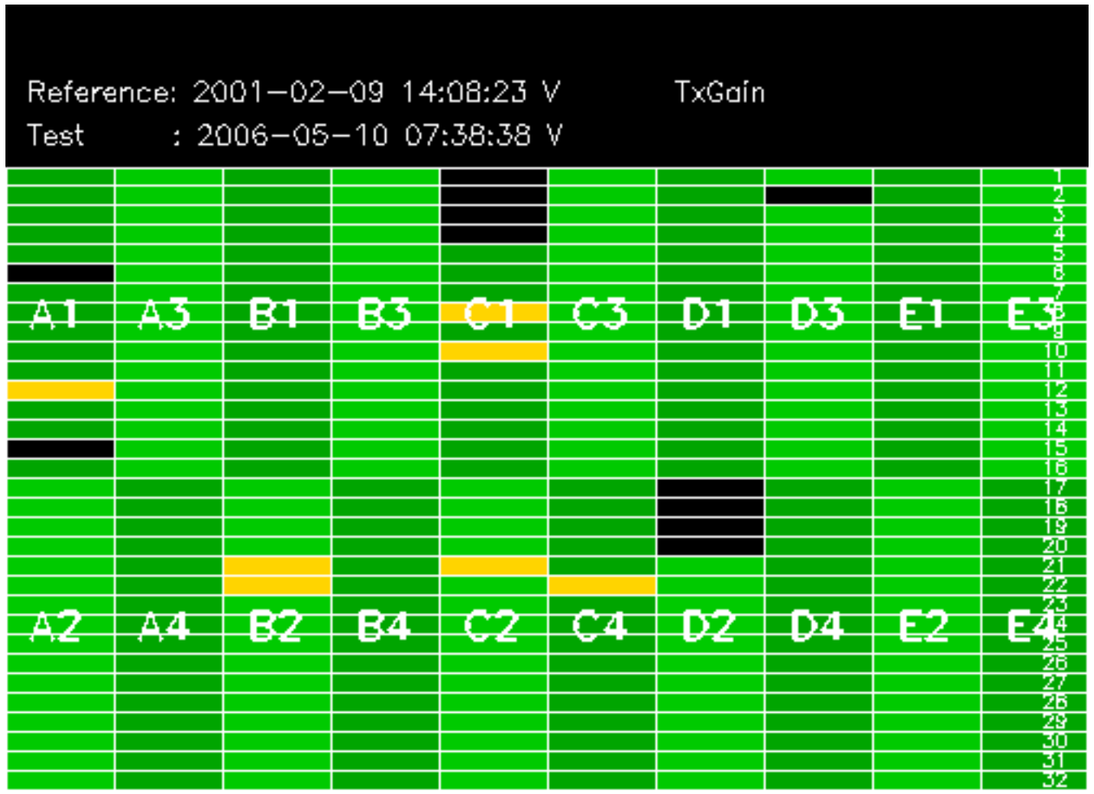
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-10 07:38:38 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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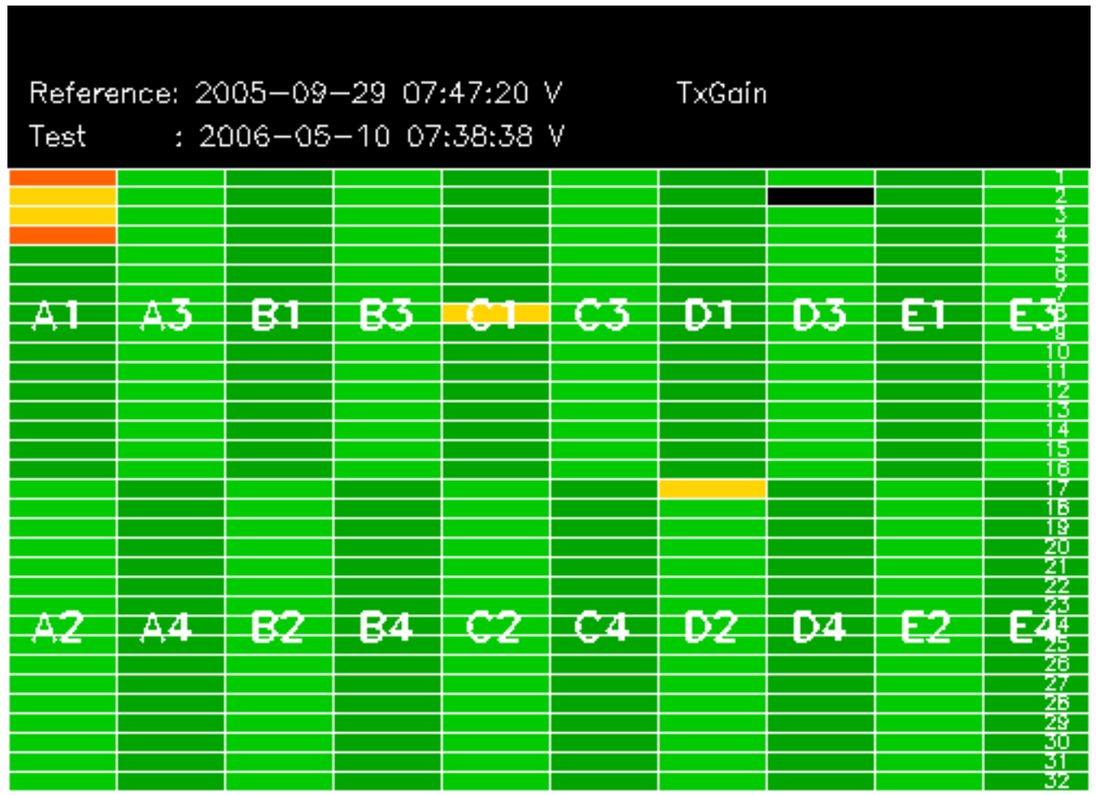
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-10 07:38:38 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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Summary of analysis for the last 3 days 2006051[012]
The assumptions is taken that the SQADS num_gaps and num_missing_lines 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_1PNPDE20060512_010614_000000832047_00346_21943_4800.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20060511_153006_000003862047_00340_21937_3252.N1 </td> <td>0 </td> <td>50 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060511_064141_000000672047_00335_21932_8794.N1 </td> <td>0 </td> <td>42 </td></tr>
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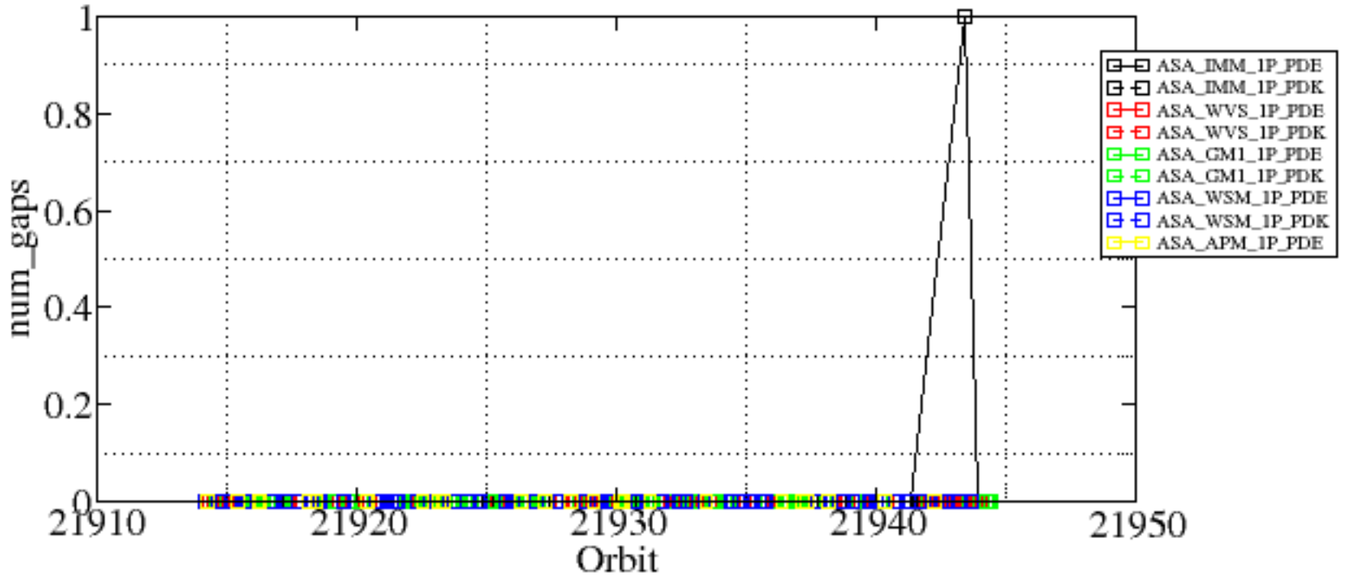
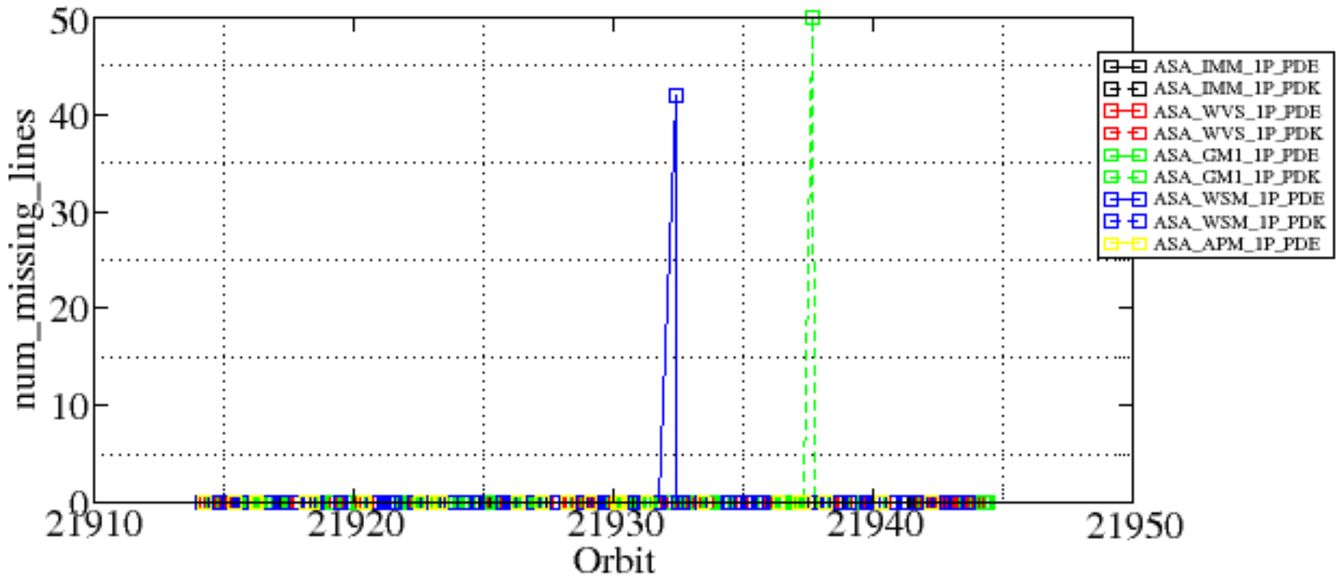
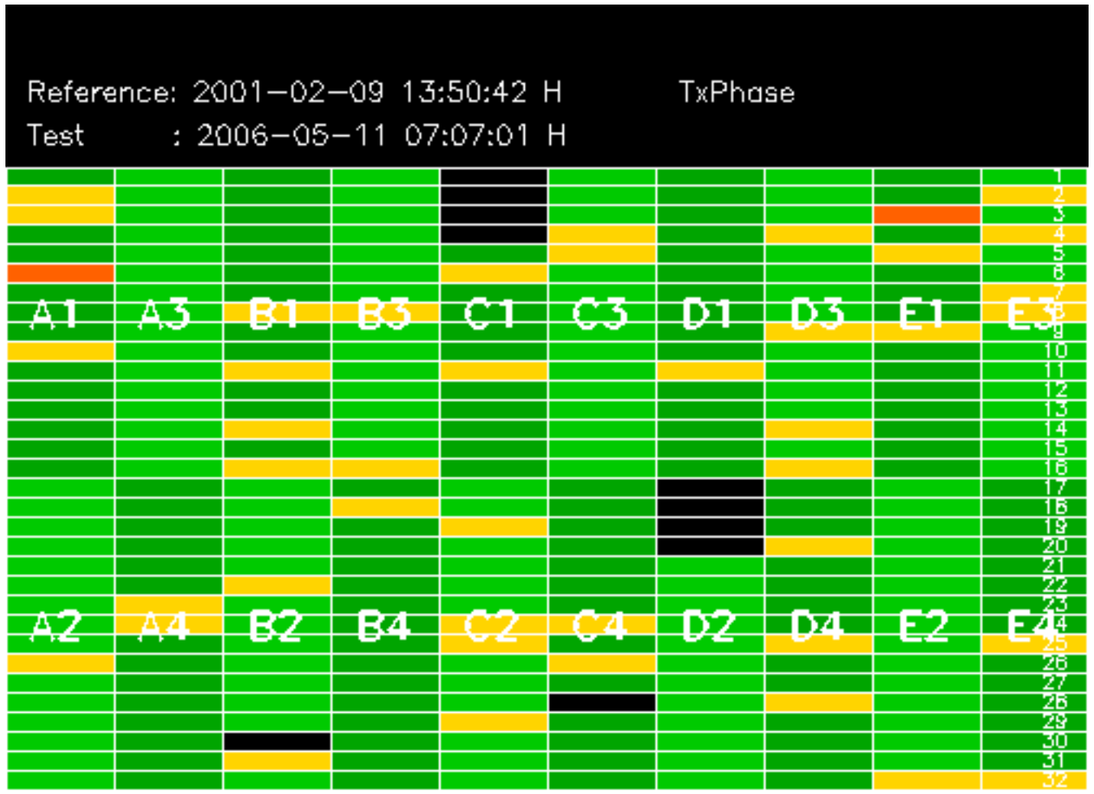
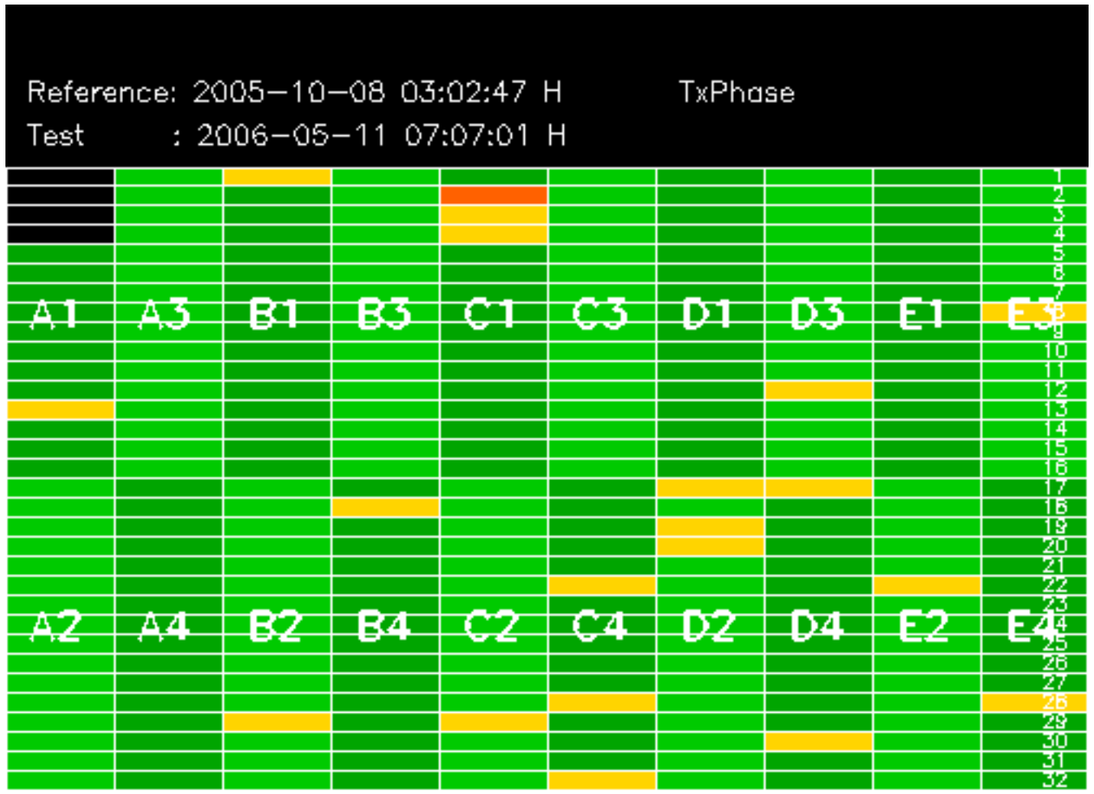
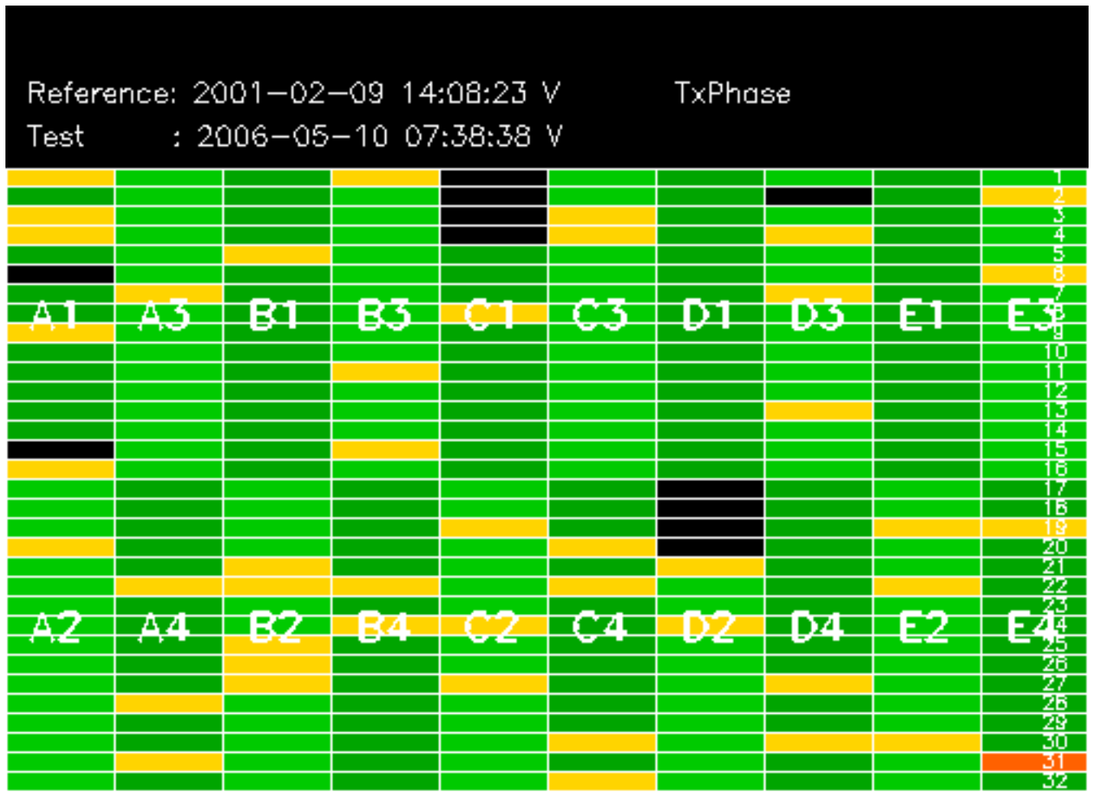
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
21910
21920
21930
21940
21950
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
50
40
30
20
10
0
21910
21920
21930
21940
21950
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


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-11 07:07:01 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 : 2006-05-11 07:07:01 H
TxPhase
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 : 2006-05-10 07:38:38 V
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
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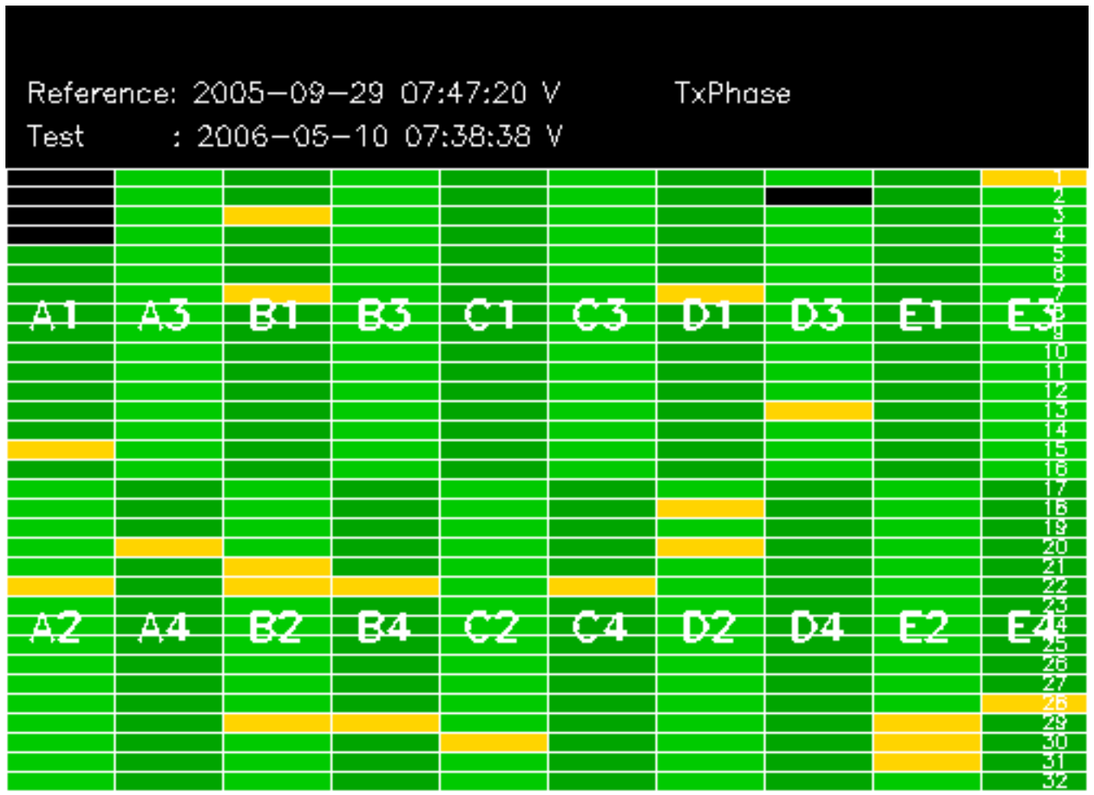
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-10 07:38:38 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
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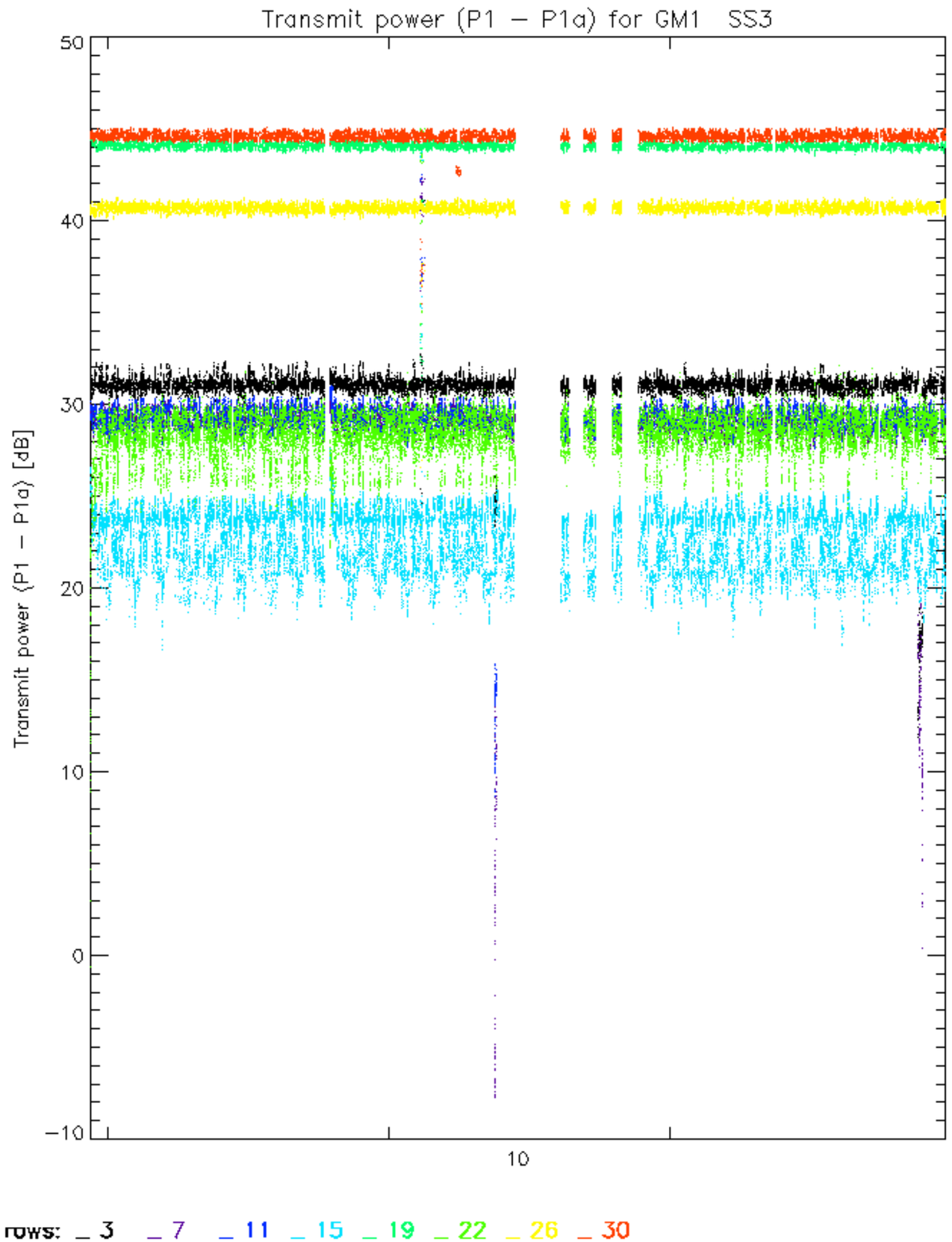
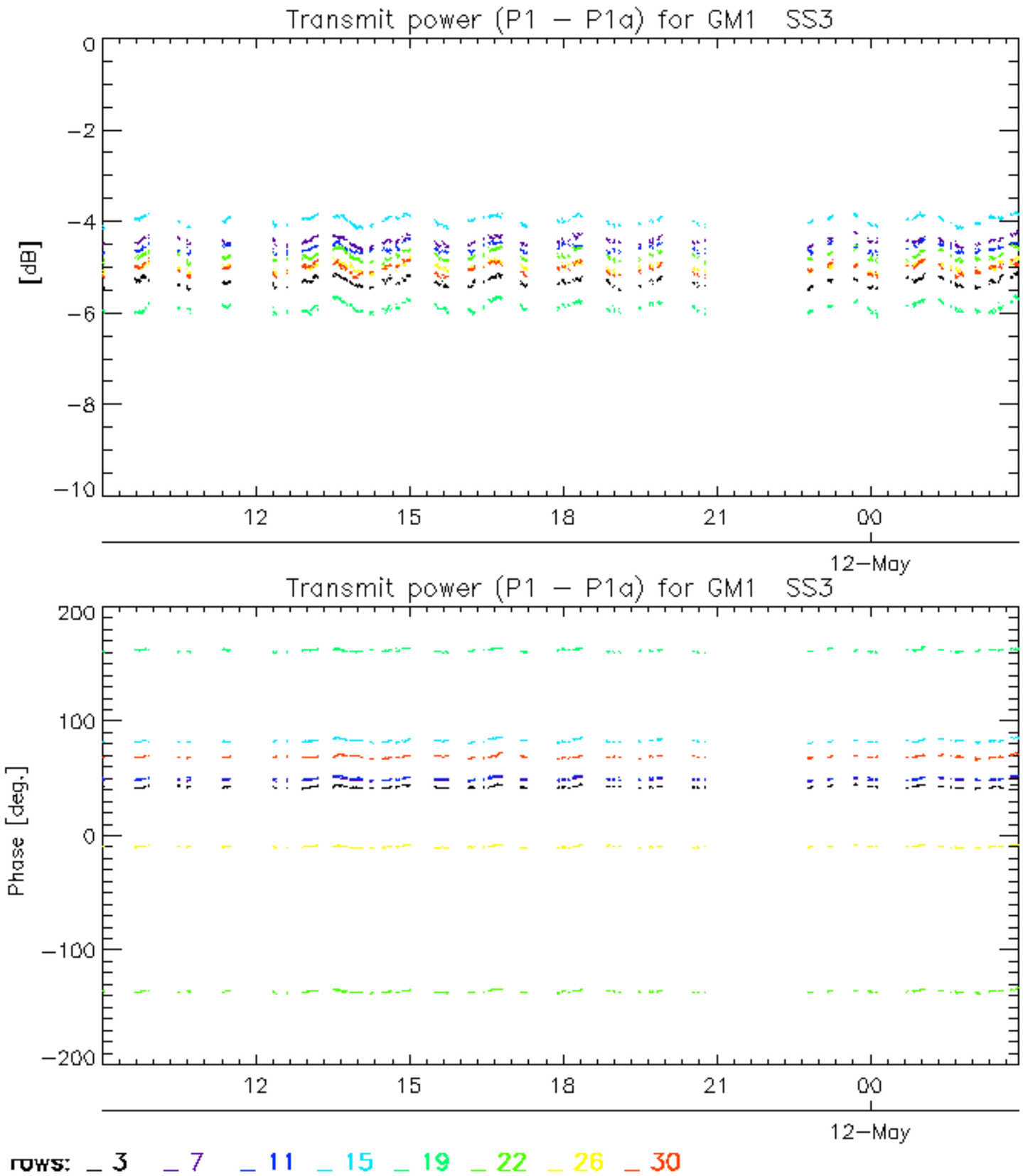
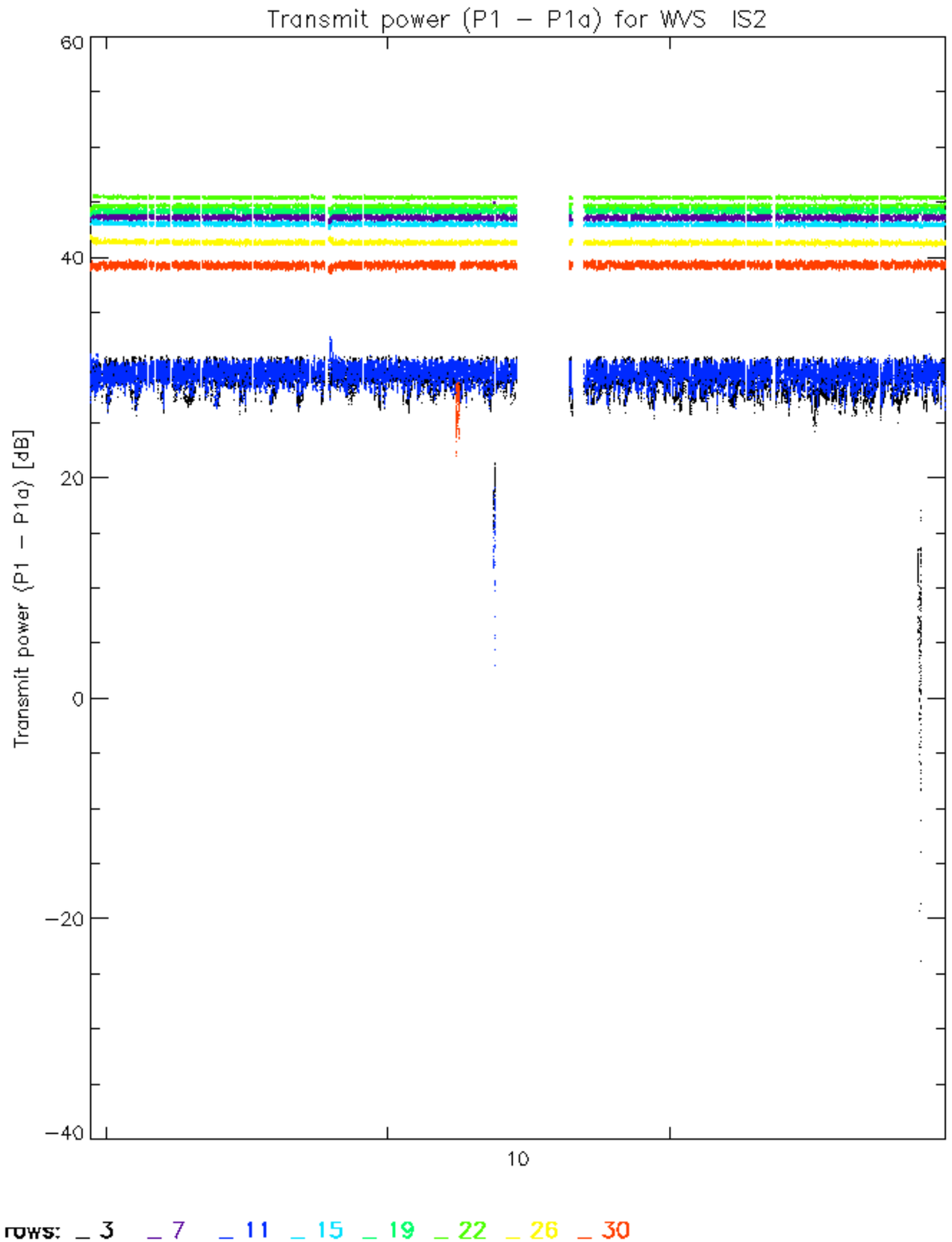
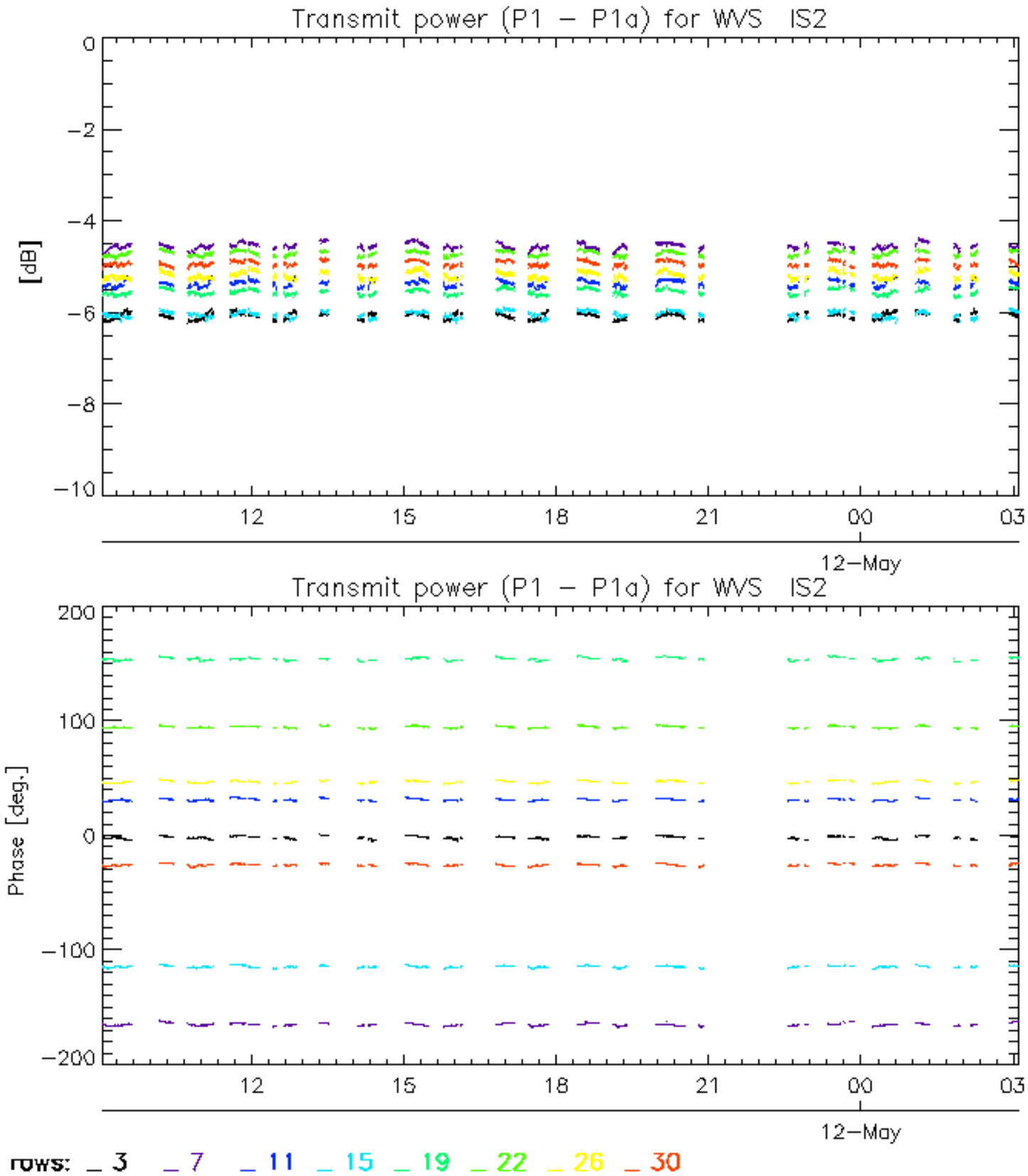

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
10
rows: 3 7 11 15 19 22 26 30


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


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
60
40
20
0
−20
−40
10
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
12–May
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
12
15
18
21
00
03
12–May
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.