PRELIMINARY REPORT OF 060503

last update on Wed May 3 16:34:28 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 2006-05-02 00:00:00 to 2006-05-03 16:34:28

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

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	46	81	7	1	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	46	81	7	1	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	46	81	7	1	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	46	81	7	1	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	35	60	26	27	64
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	35	60	26	27	64
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	35	60	26	27	64
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	35	60	26	27	64

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	20060501 054046
H	20060502 050910

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	-3.976044	0.011702	0.016295
7	P1	-3.045542	0.011228	-0.029543
11	P1	-4.081988	0.016144	-0.035854
15	P1	-6.097387	0.013010	-0.009372
19	P1	-3.311847	0.007136	0.028297
22	P1	-4.512504	0.011461	-0.049393
26	P1	-4.060623	0.019397	0.122996
30	P1	-5.736379	0.022279	0.021478
3	P1	-16.715343	0.317441	0.169194
7	P1	-16.919353	0.147798	-0.137792
11	P1	-16.665722	0.324164	-0.379840
15	P1	-13.079692	0.126087	-0.137904
19	P1	-14.107467	0.047707	-0.206786
22	P1	-15.978356	0.489546	-0.433382
26	P1	-15.526158	0.259439	0.491349
30	P1	-16.719398	0.290192	-0.365532

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.305153	0.086244	0.064817
7	P2	-22.215769	0.100488	0.104624
11	P2	-16.067467	0.110510	0.180398
15	P2	-7.164408	0.097340	0.003897
19	P2	-9.148707	0.089774	-0.016998
22	P2	-18.035772	0.088833	-0.101429
26	P2	-16.292858	0.094430	-0.082211
30	P2	-19.610565	0.088308	0.013982

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.190039	0.004705	0.001223
7	P3	-8.190039	0.004705	0.001223
11	P3	-8.190039	0.004705	0.001223
15	P3	-8.190039	0.004705	0.001223
19	P3	-8.190039	0.004705	0.001223
22	P3	-8.190039	0.004705	0.001223
26	P3	-8.190060	0.004706	0.001184
30	P3	-8.190060	0.004706	0.001184

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	-3.748745	0.029890	0.016842
7	P1	-2.679659	0.121057	0.081171
11	P1	-2.891703	0.036350	0.081189
15	P1	-3.523316	0.031932	0.052339
19	P1	-3.380364	0.013103	-0.011488
22	P1	-5.131915	0.023460	0.086544
26	P1	-5.810060	0.025619	-0.038129
30	P1	-5.177870	0.049748	0.008331
3	P1	-11.590906	0.115008	-0.017790
7	P1	-9.977819	0.182067	0.037787
11	P1	-10.238617	0.090195	0.117080
15	P1	-10.712673	0.138534	0.148943
19	P1	-15.437384	0.090014	-0.089884
22	P1	-20.612133	1.250764	-0.453242

26	P1	-16.358404	0.409269	-0.205914
30	P1	-18.288929	0.480760	0.275827

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.969814	0.071008	0.085128
7	P2	-22.500549	0.190497	-0.057018
11	P2	-11.191790	0.052866	-0.004439
15	P2	-4.857381	0.042633	-0.053183
19	P2	-6.853457	0.050883	-0.029632
22	P2	-8.147616	0.056932	-0.046566
26	P2	-24.030836	0.138517	-0.064525
30	P2	-22.048567	0.094483	0.009084

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.023316	0.003673	-0.004952
7	P3	-8.023255	0.003695	-0.004746
11	P3	-8.023474	0.003658	-0.004335
15	P3	-8.023322	0.003682	-0.004621
19	P3	-8.023483	0.003678	-0.004965
22	P3	-8.023484	0.003683	-0.004402
26	P3	-8.023378	0.003671	-0.004119
30	P3	-8.023360	0.003676	-0.004986

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	0.000553391
	stdev	1.80506e-07
MEAN Q	mean	0.000520208
	stdev	2.24296e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136919
	stdev	0.00117149
STDEV Q	mean	0.137281
	stdev	0.00118932

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006050[123]
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_1PNPDE20060502_003712_000001362047_00202_21799_3993.N1	1	0
ASA_GM1_1PNPDK20060501_081050_000007372047_00193_21790_2679.N1	0	48
ASA_WSM_1PNPDE20060501_230249_000001222047_00202_21799_7447.N1	0	31
ASA_WSM_1PNPDE20060502_012718_000001282047_00203_21800_7473.N1	0	66
ASA_WSM_1PNPDE20060502_112806_000001832047_00209_21806_7544.N1	0	2

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

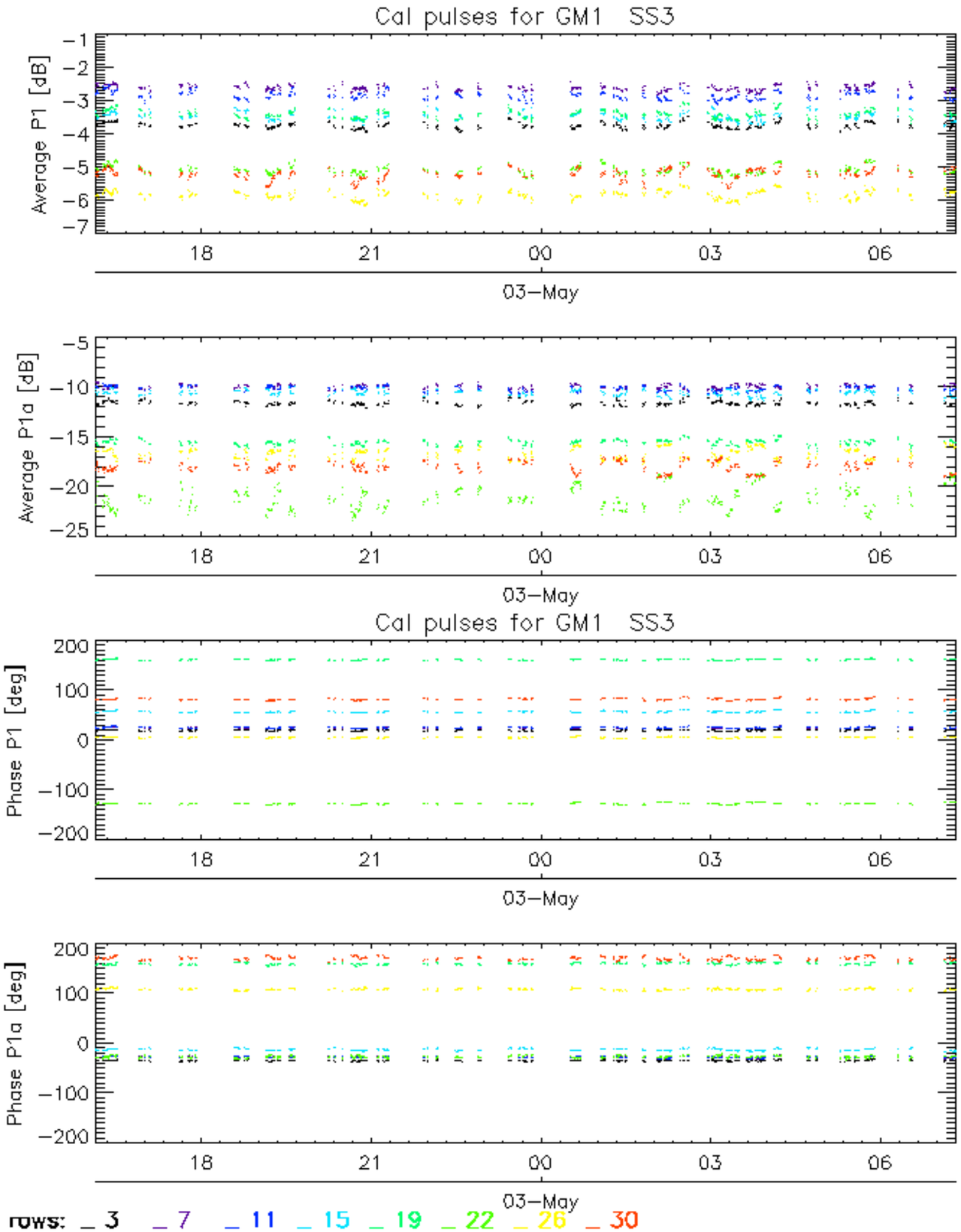
Evolution of Absolute Doppler

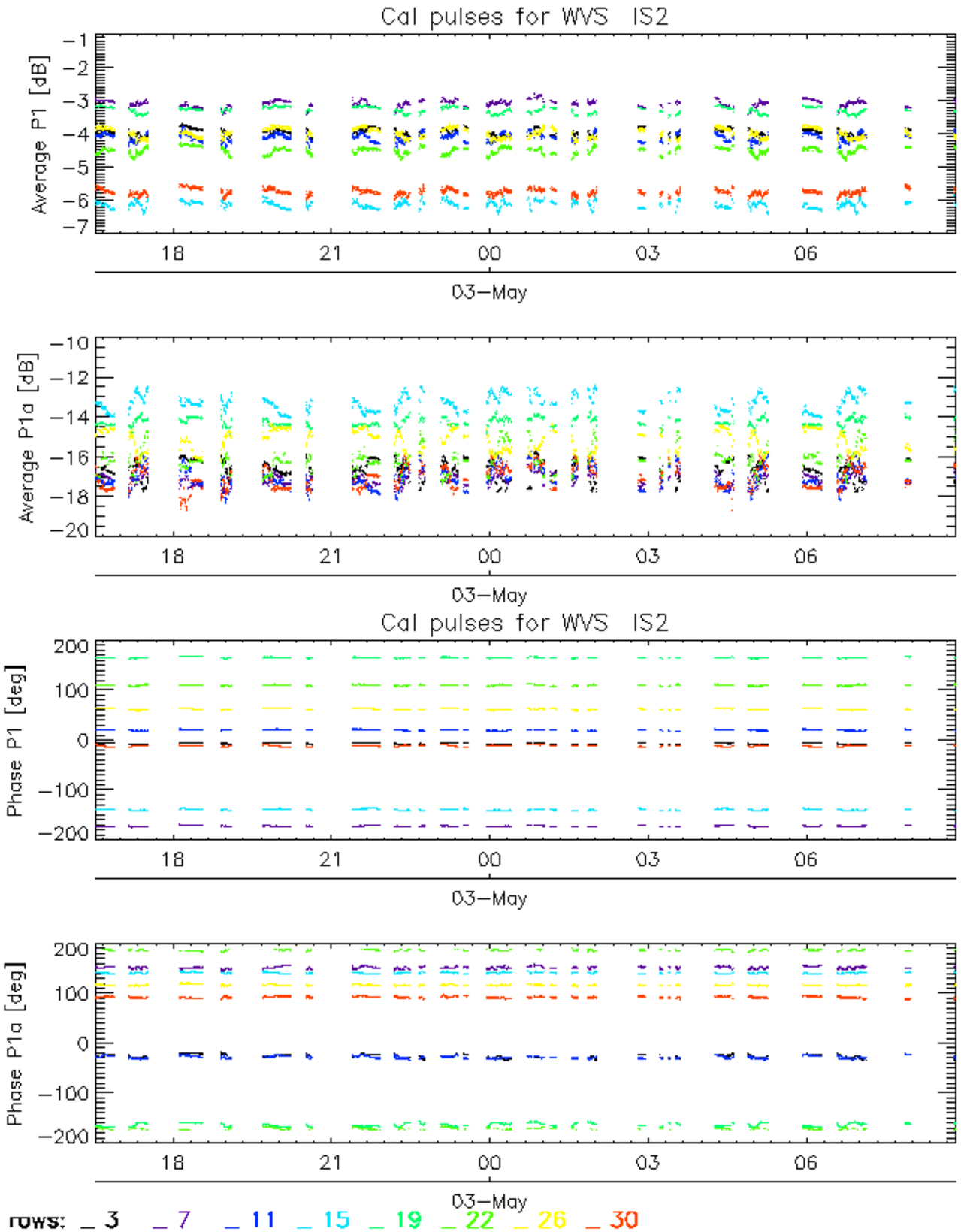
Acsending

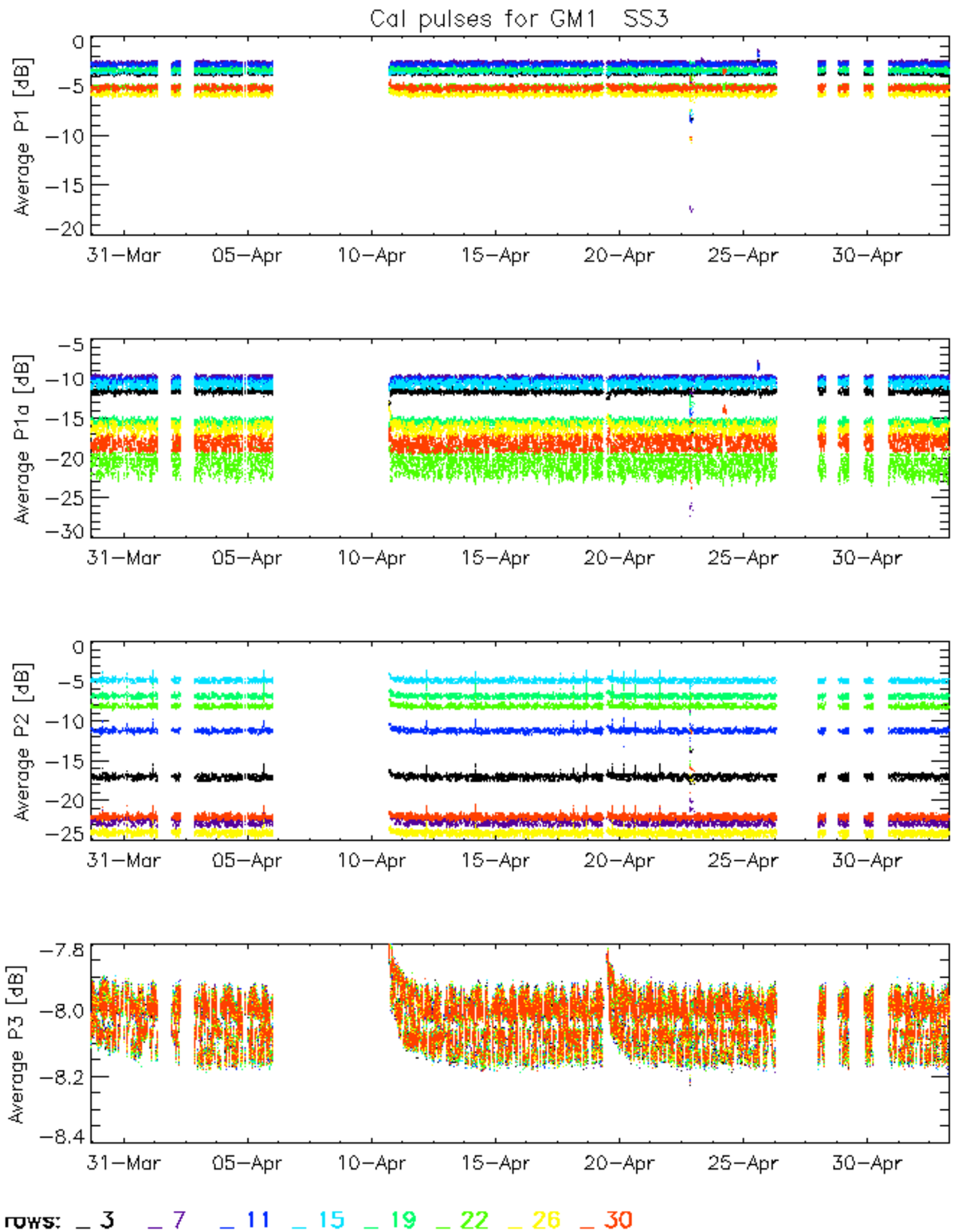
Descending

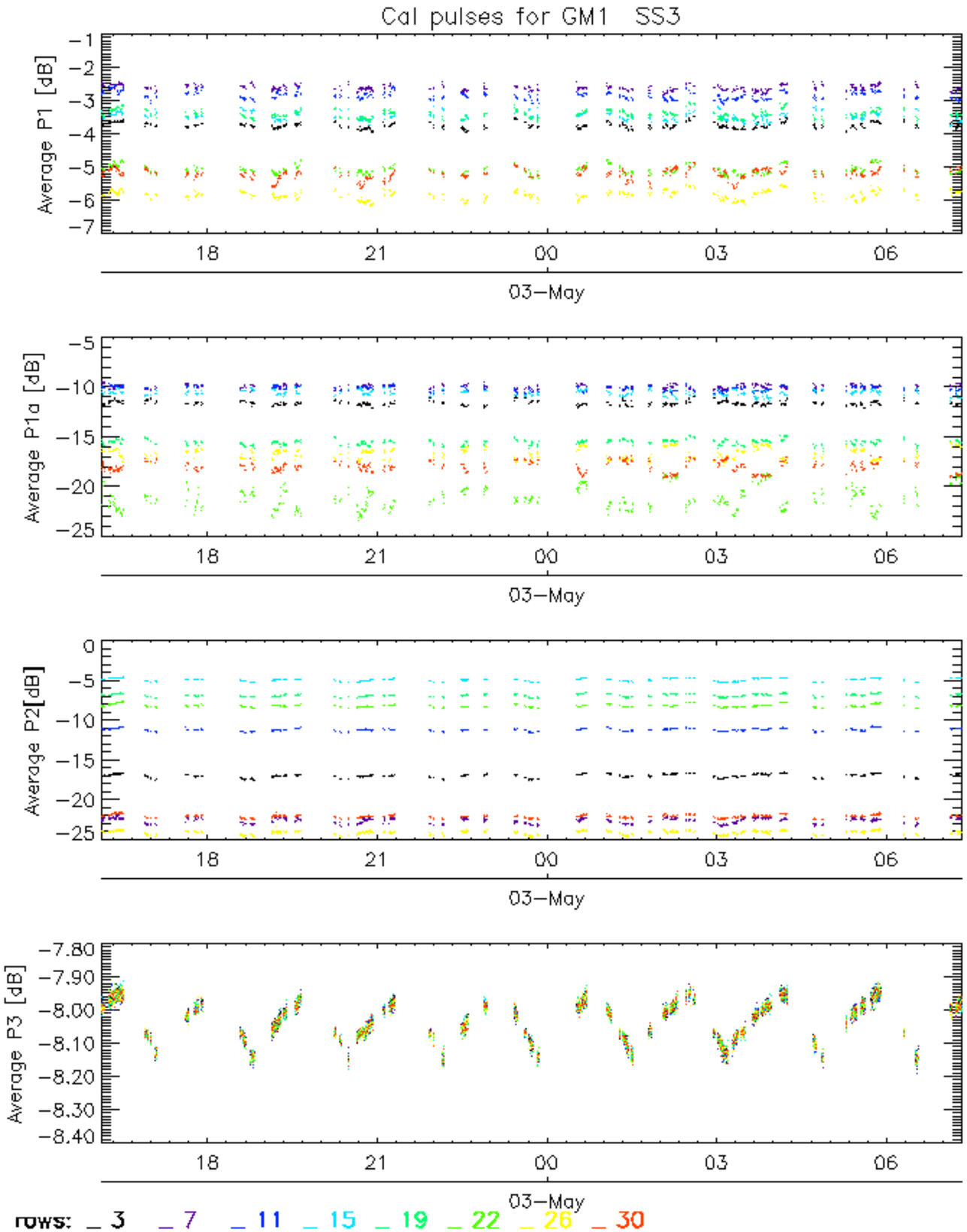
7.6 - Doppler evolution versus ANX for GM1

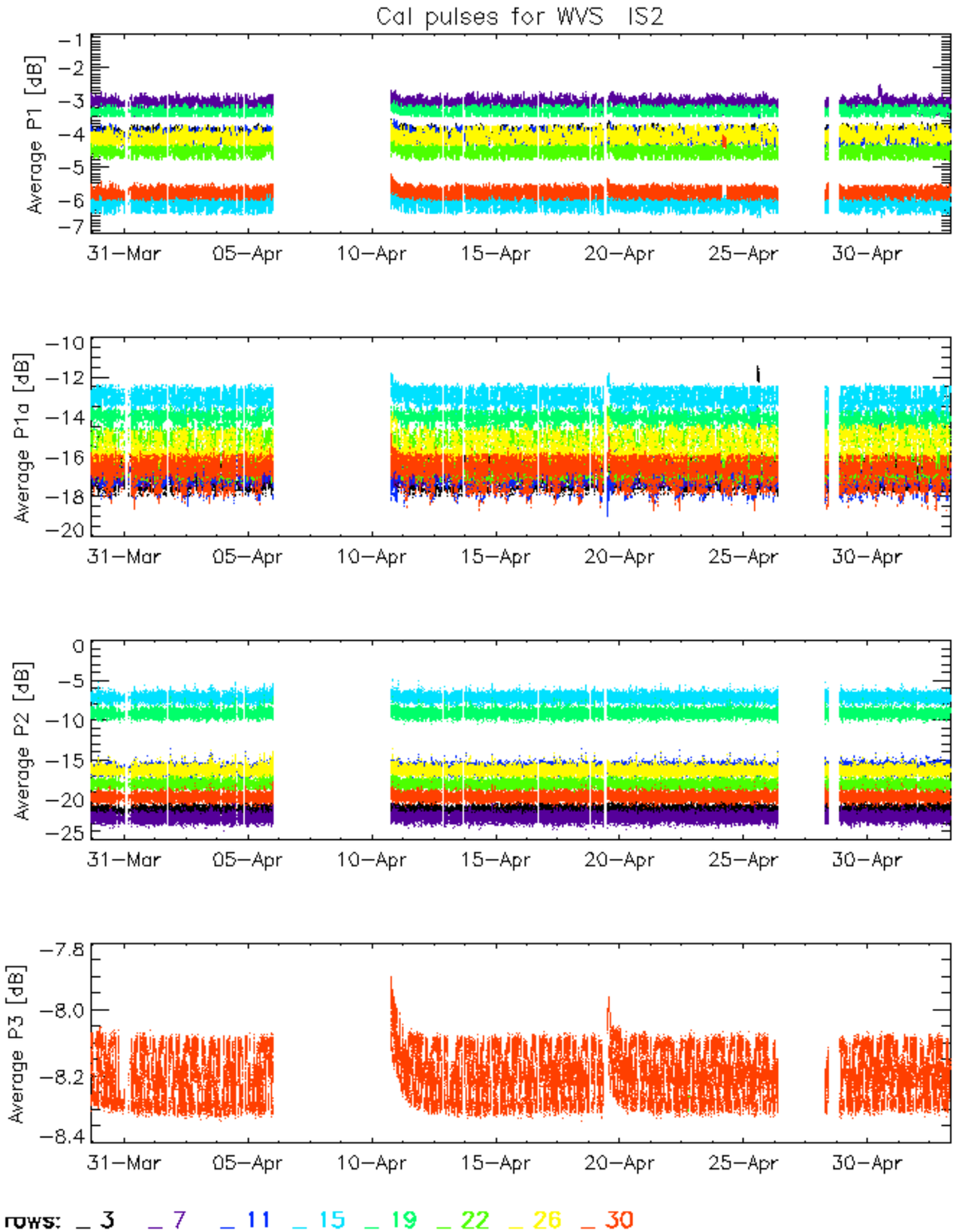
Evolution Doppler error versus ANX

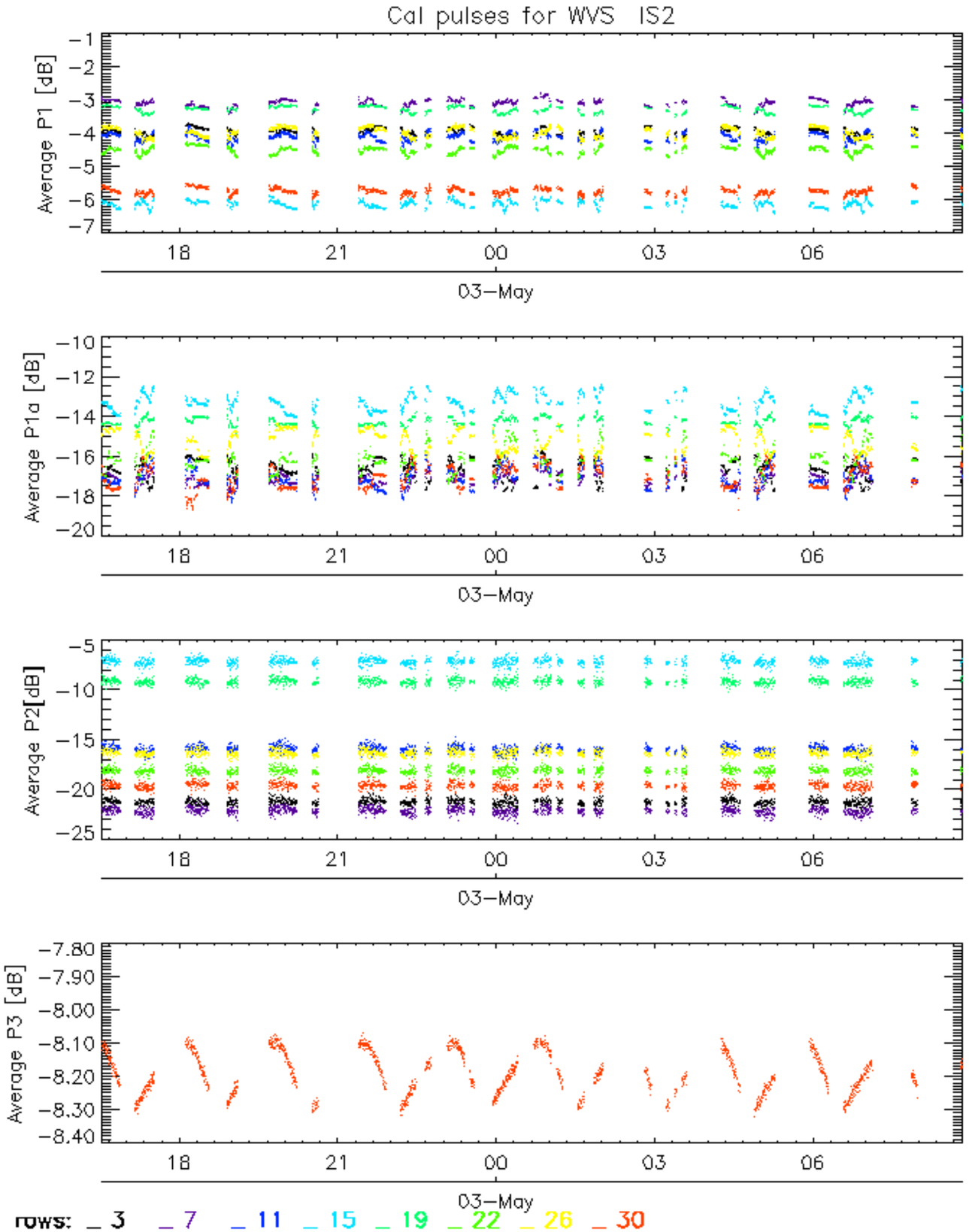


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
03−May
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
03−May
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
03−May
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
03−May
rows: _ 3 _ 7 _ 11 _ 15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


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


Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
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
31−Mar
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

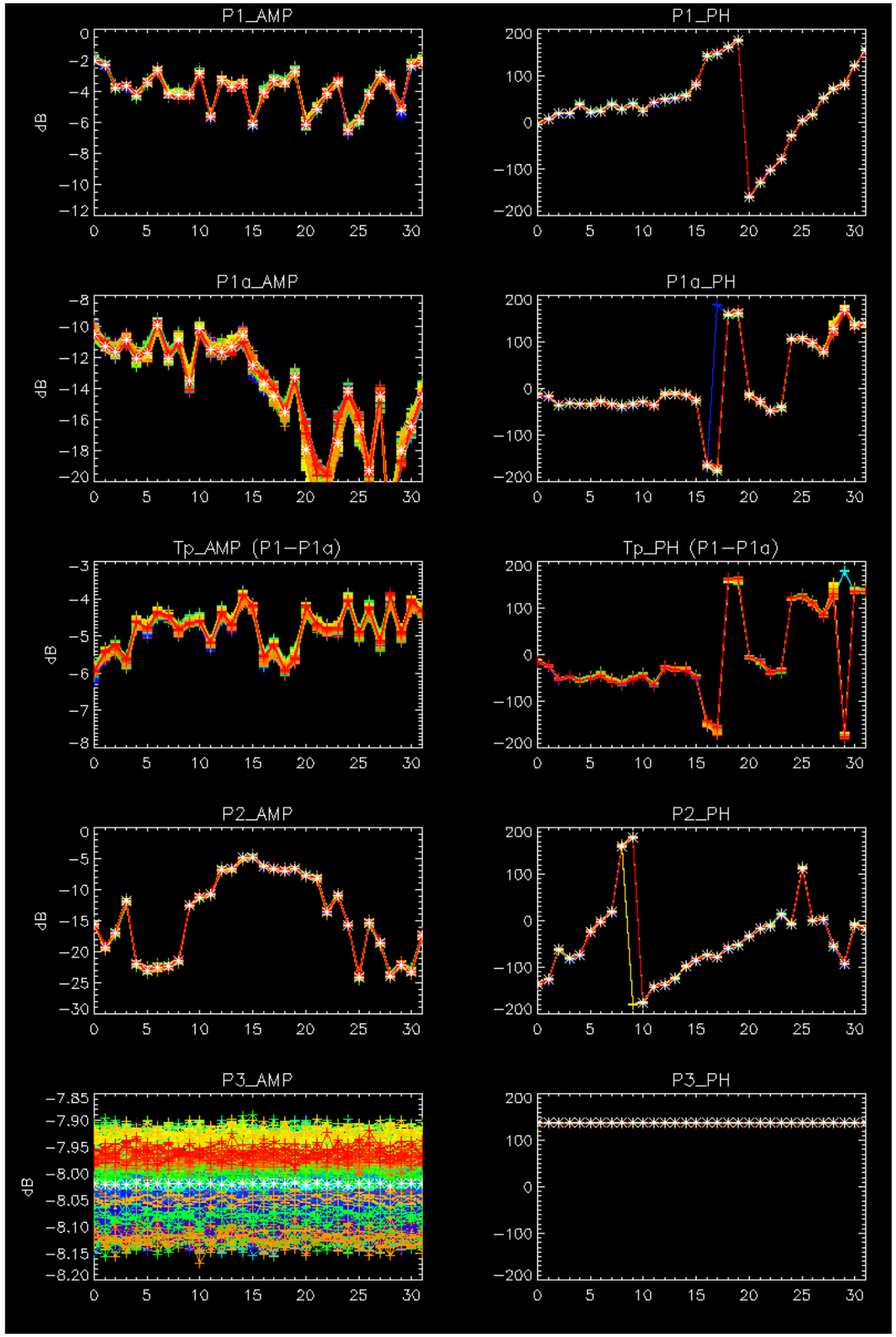

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
03−May
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
03−May
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
03−May
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
03−May
rows: _ 3 _ 7 _ 11 _ 15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

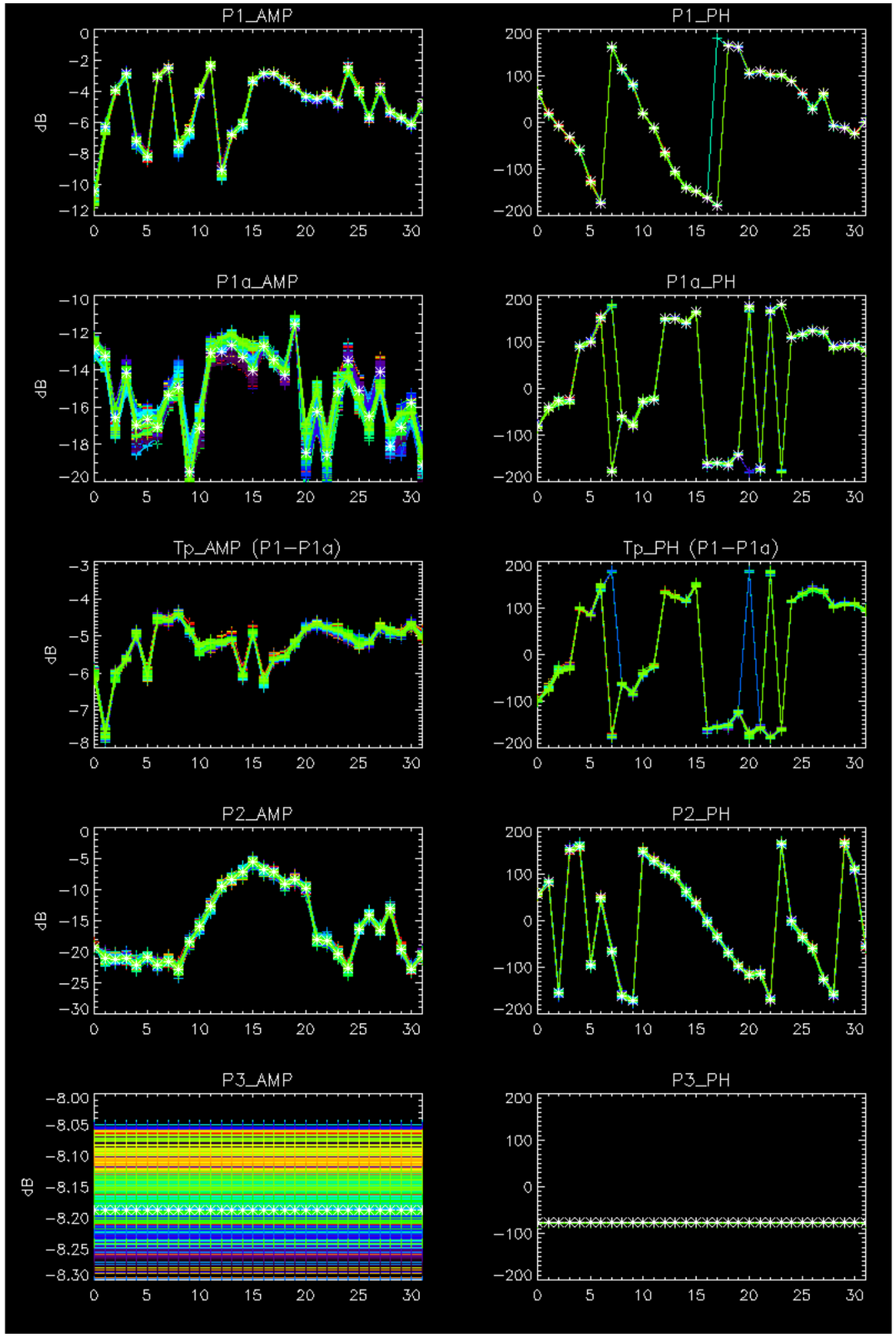

Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
31−Mar
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30


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

No anomalies observed on available browse products

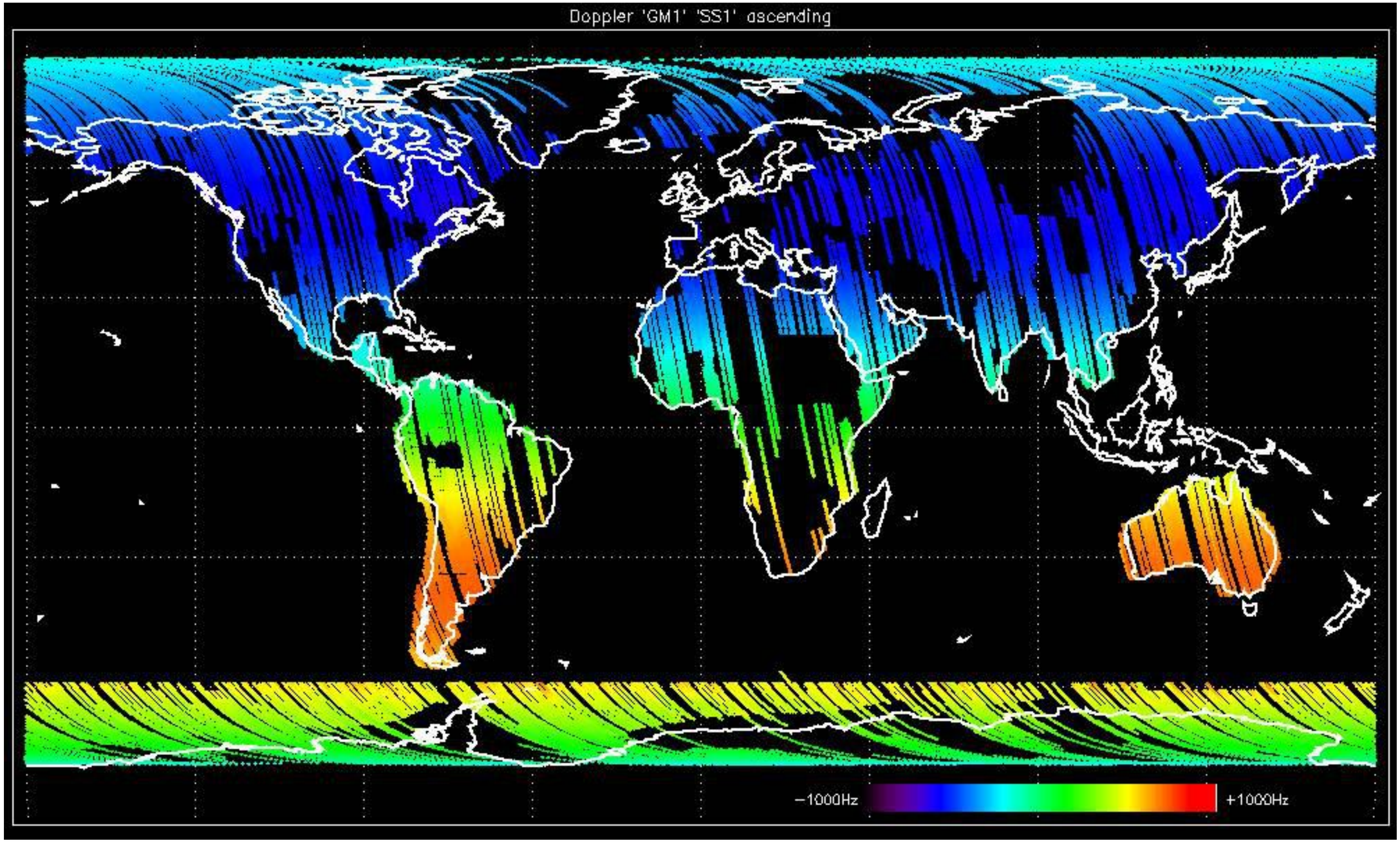
No anomalies observed.

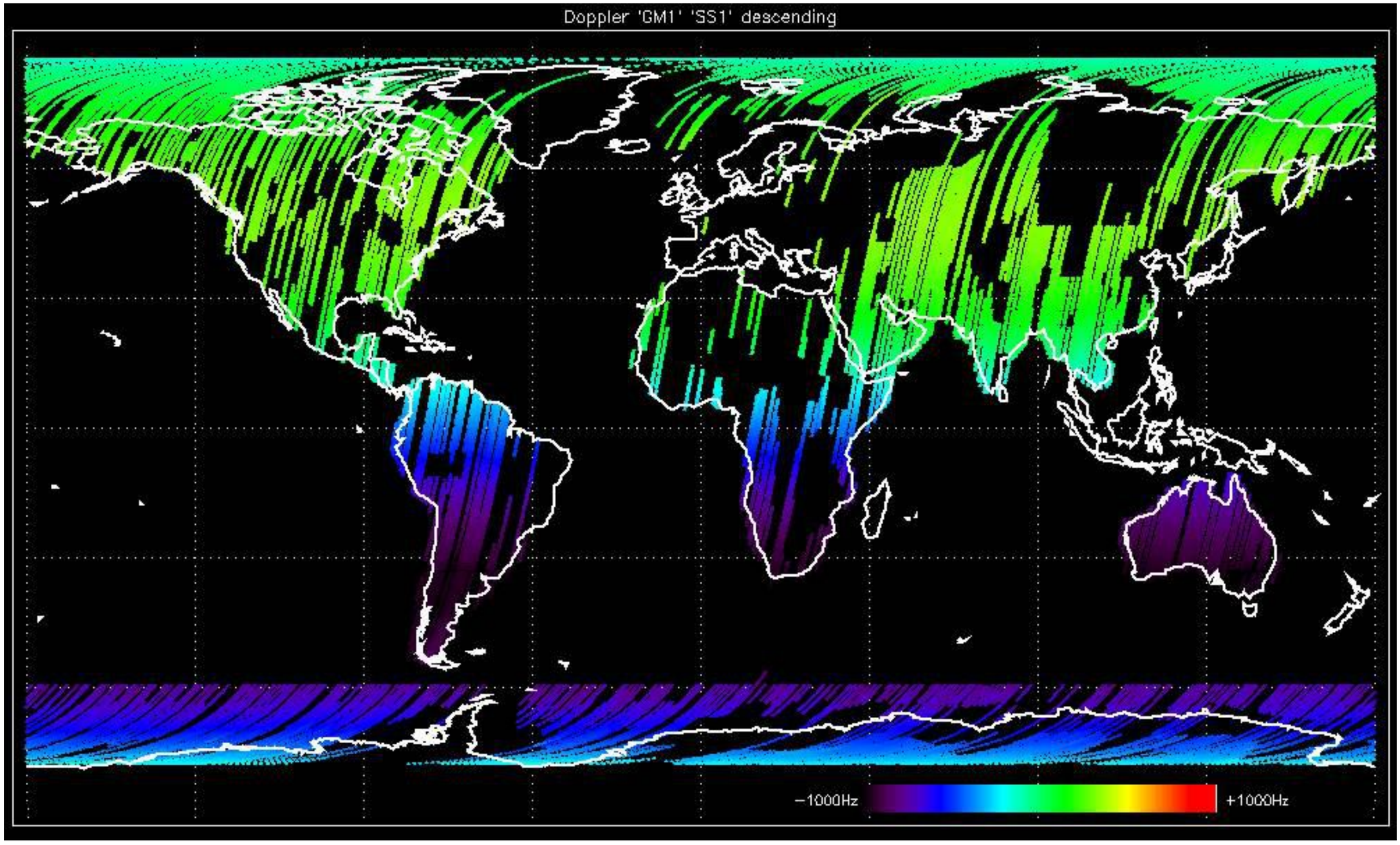

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

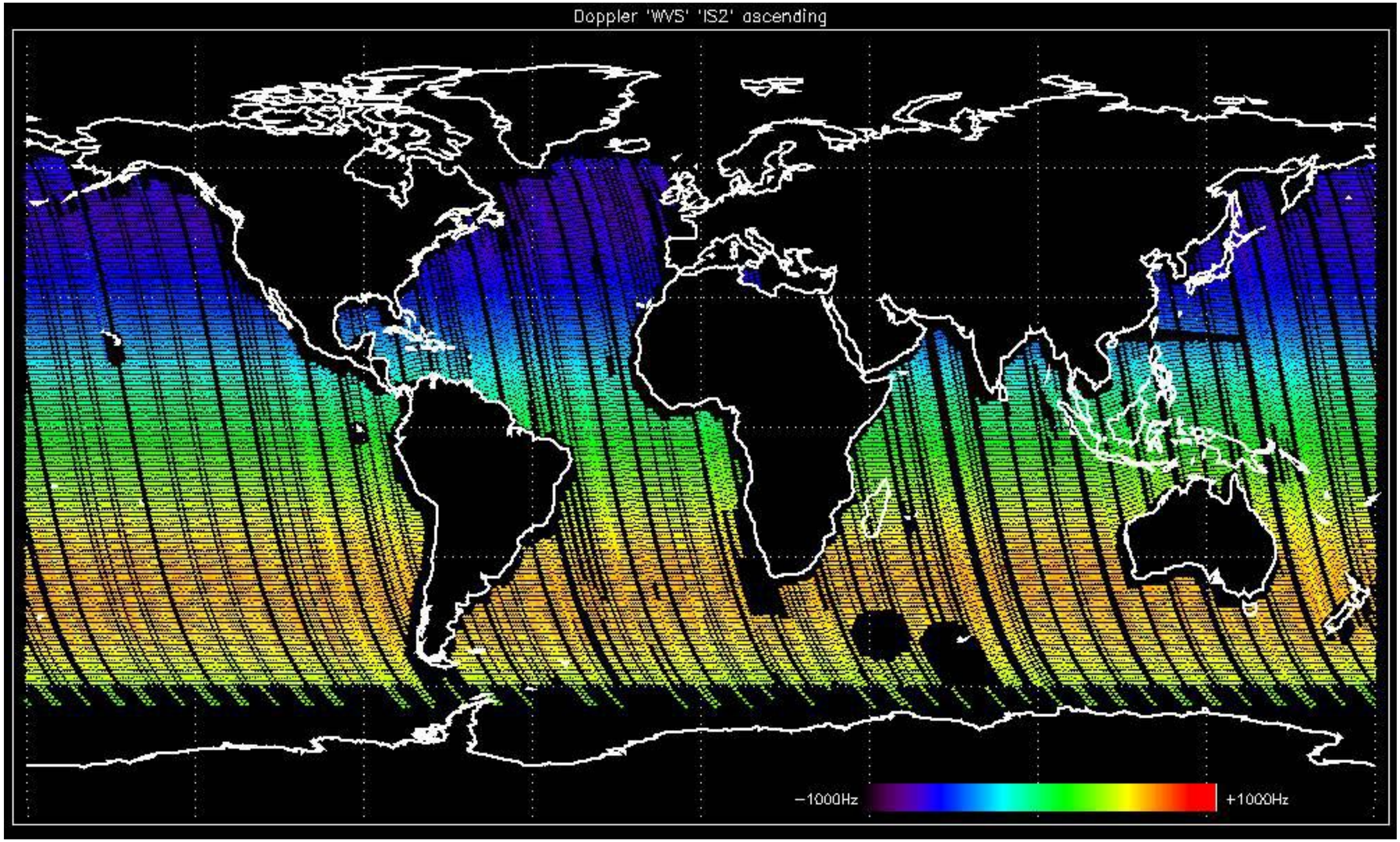

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

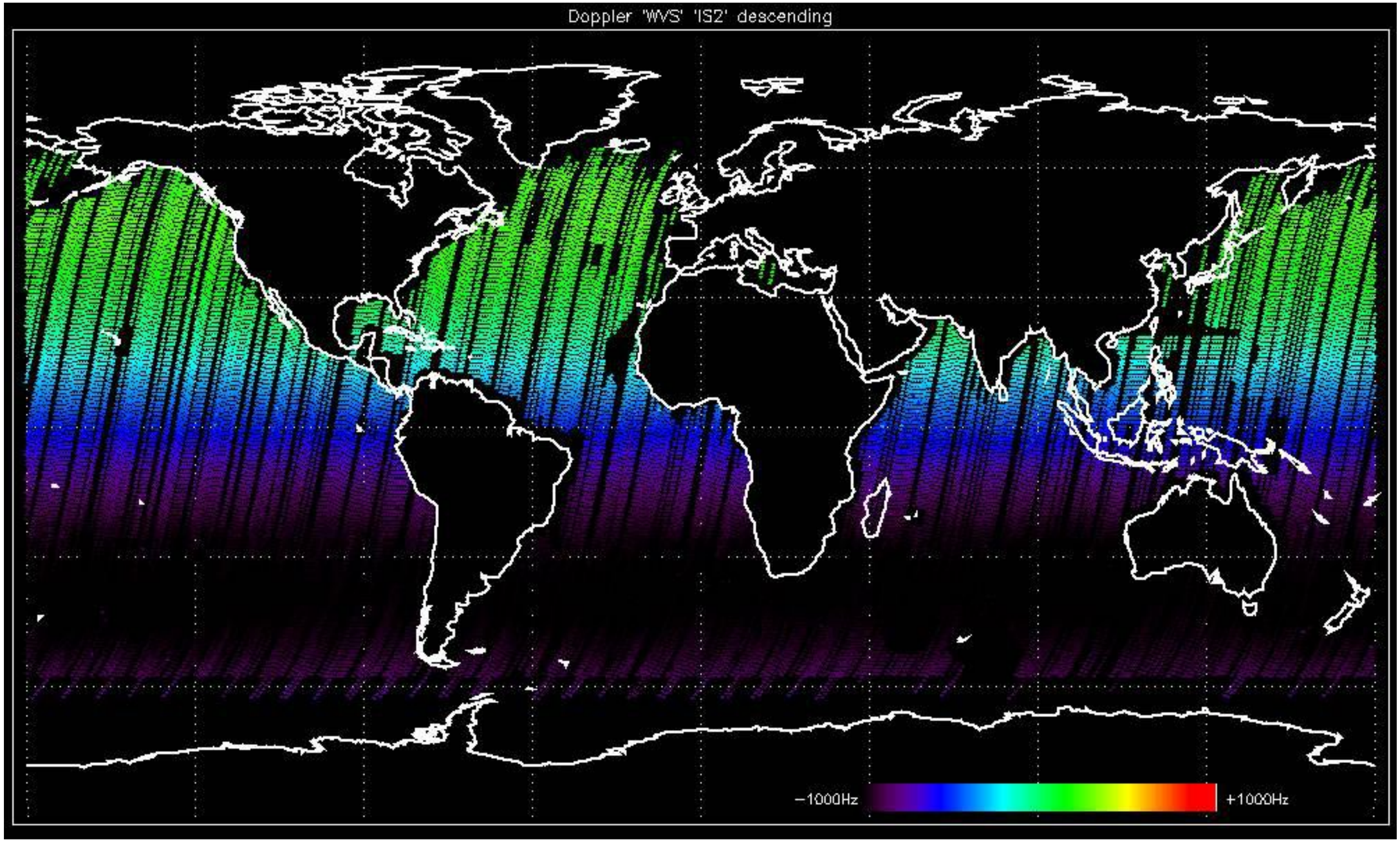
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

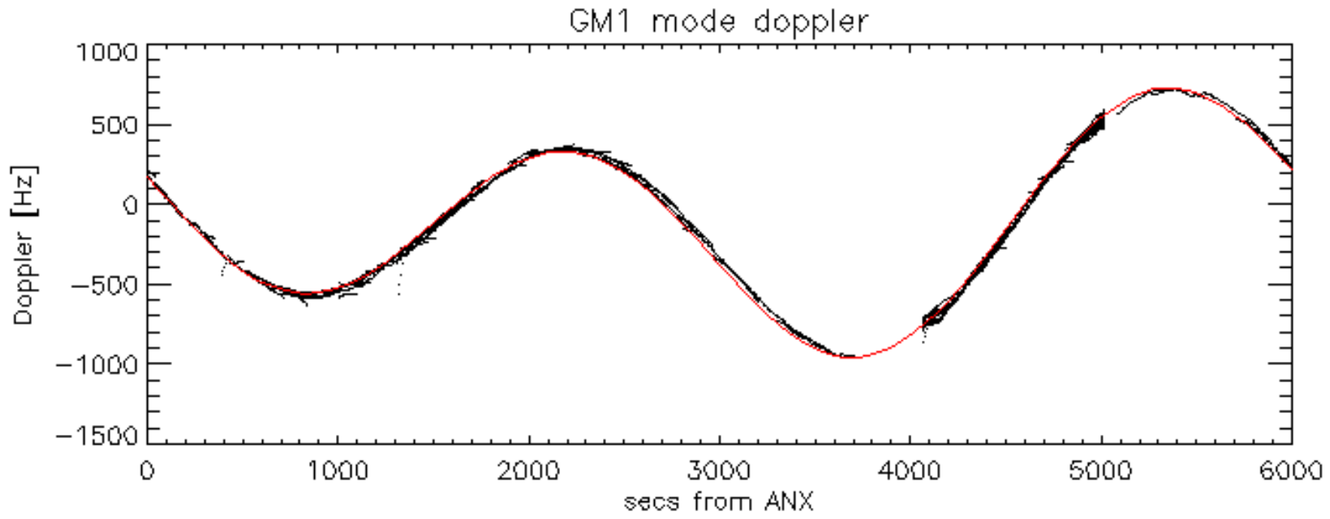
Preliminary report.The data is not yet controled

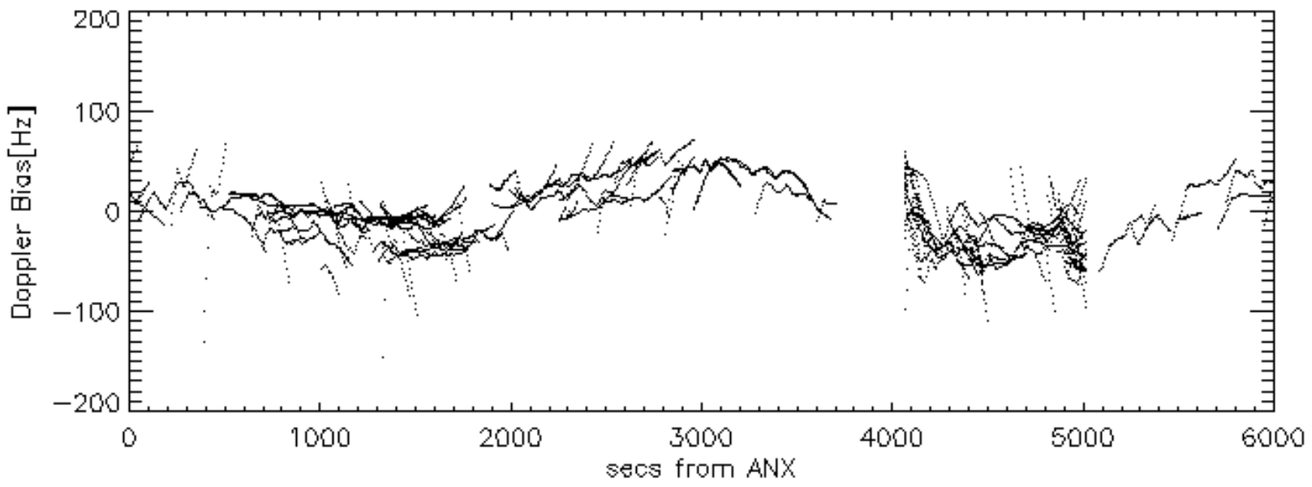

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

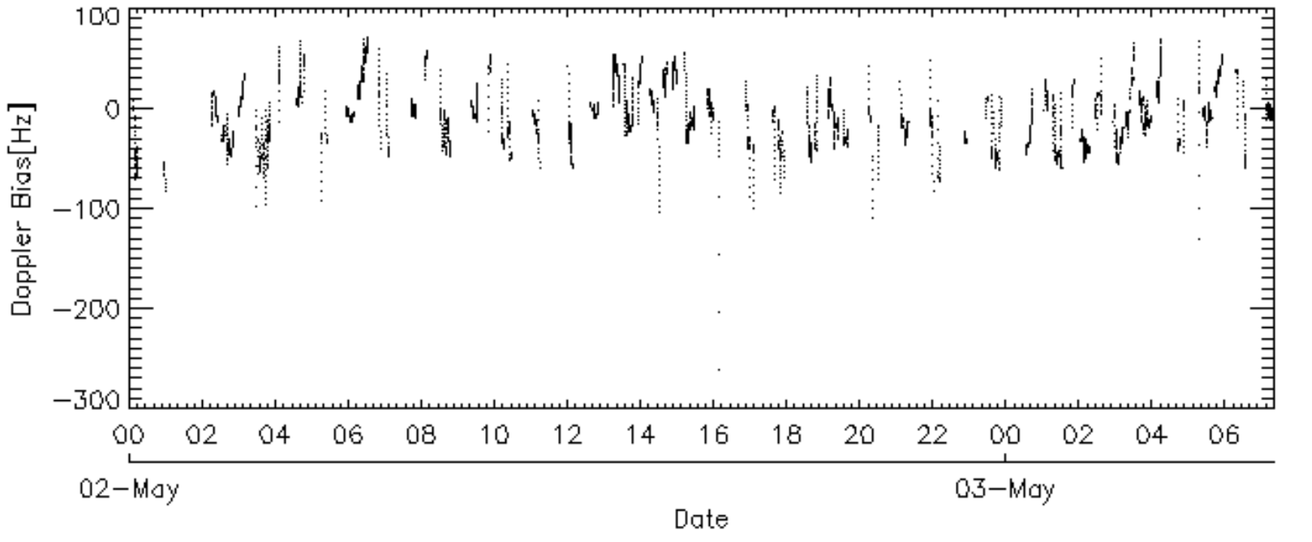

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

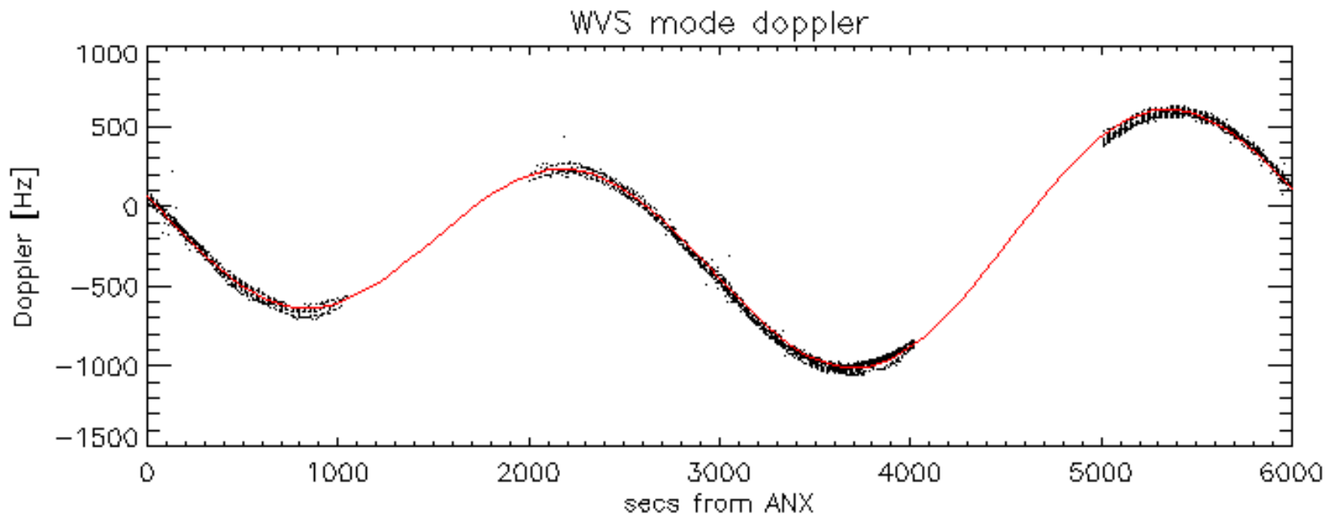

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

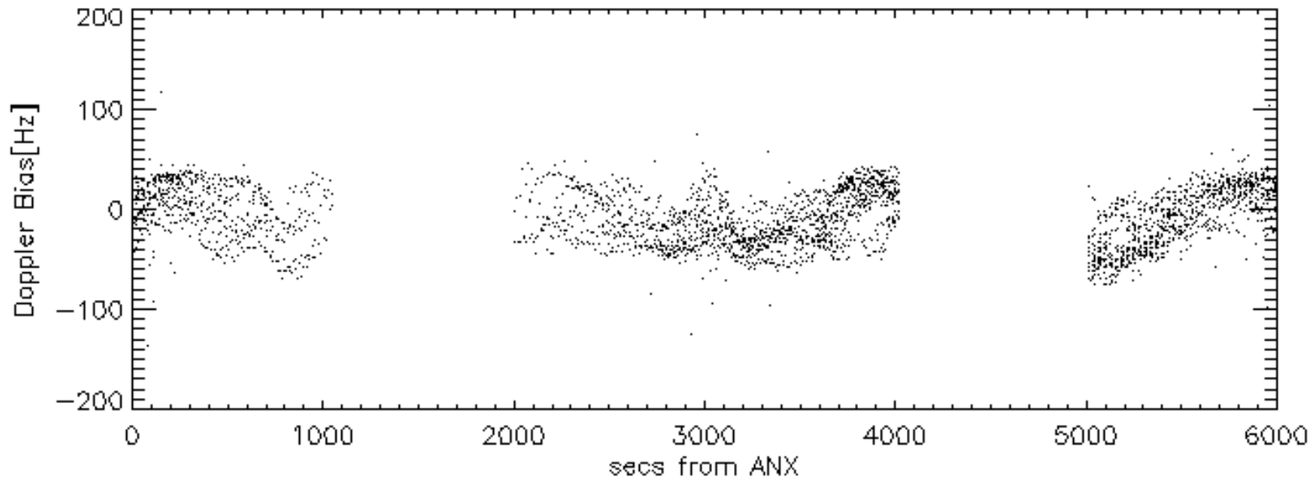

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

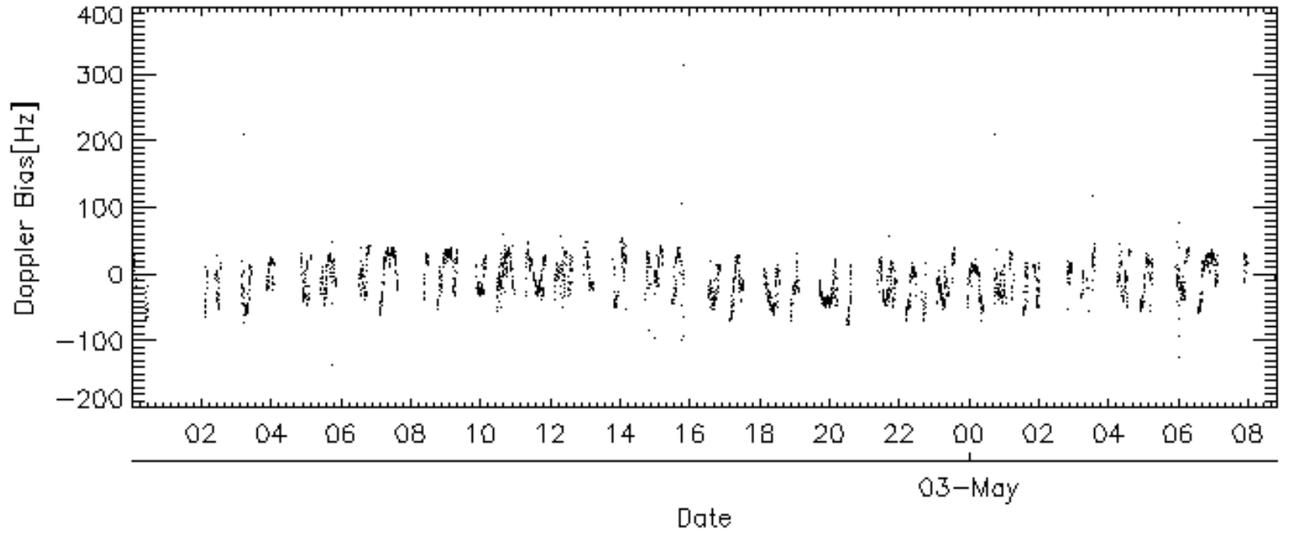

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

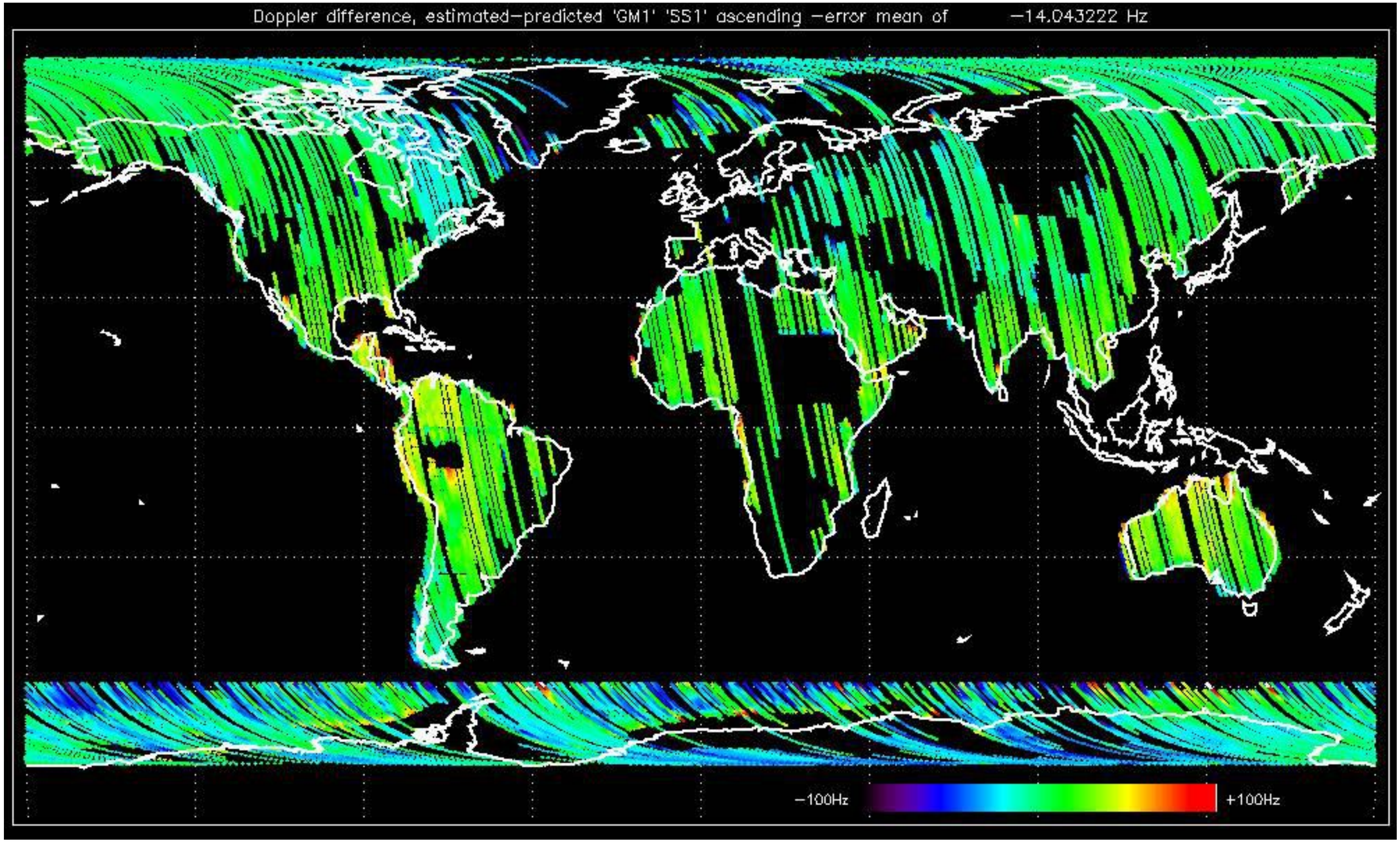

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

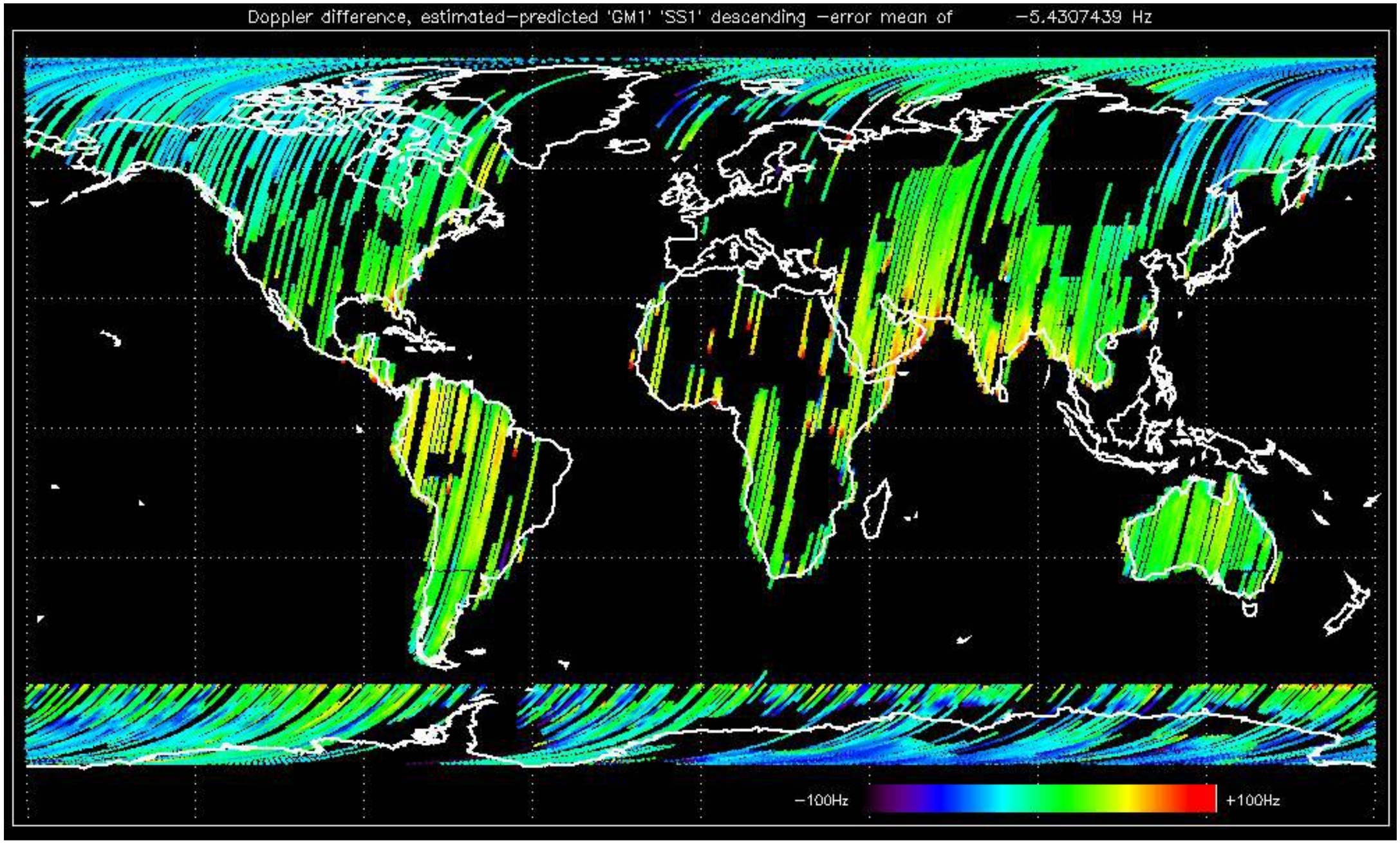

Doppler Bias[Hz]
100
0
−100
−200
−300
00
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
02−May
03−May
Date

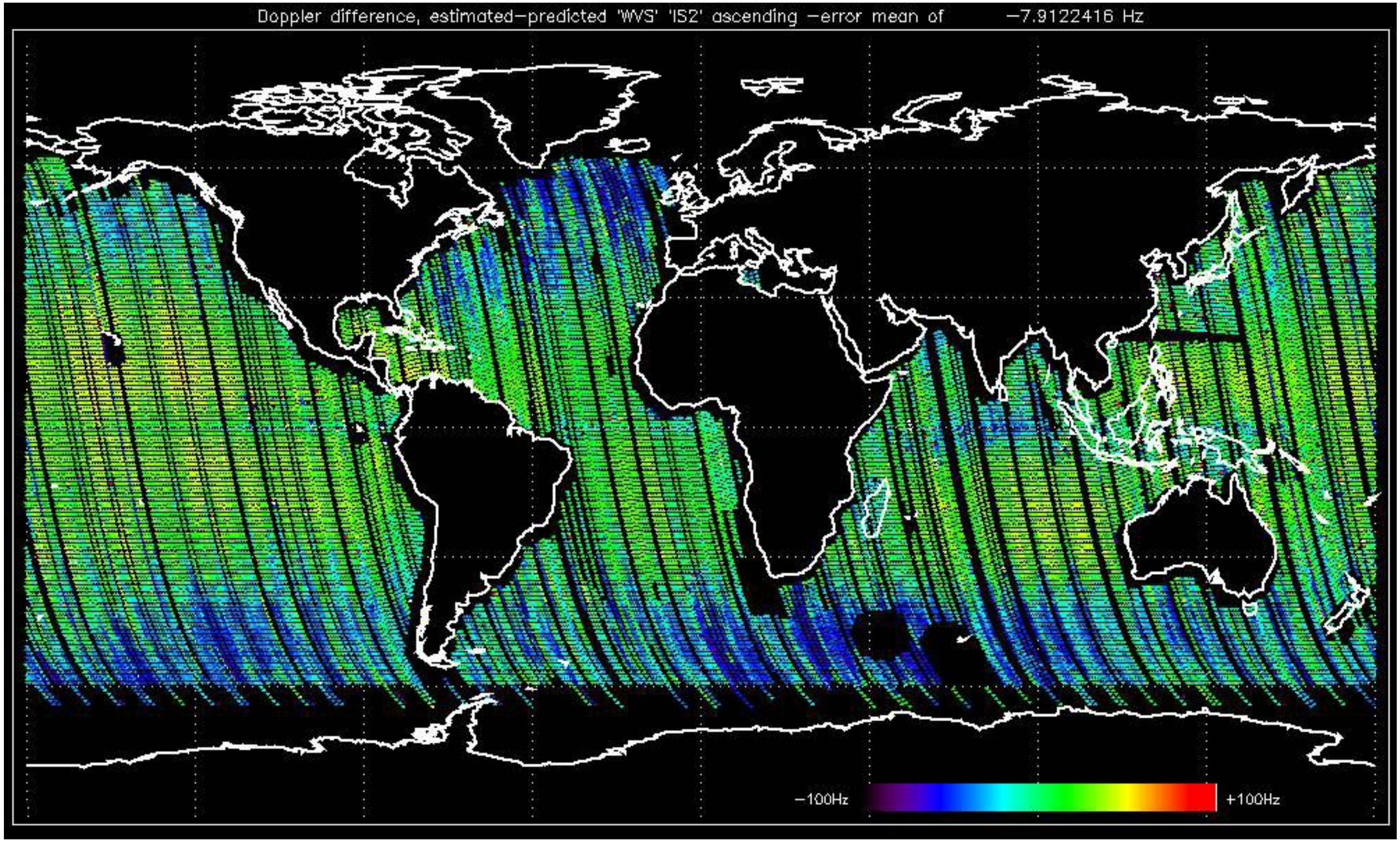

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

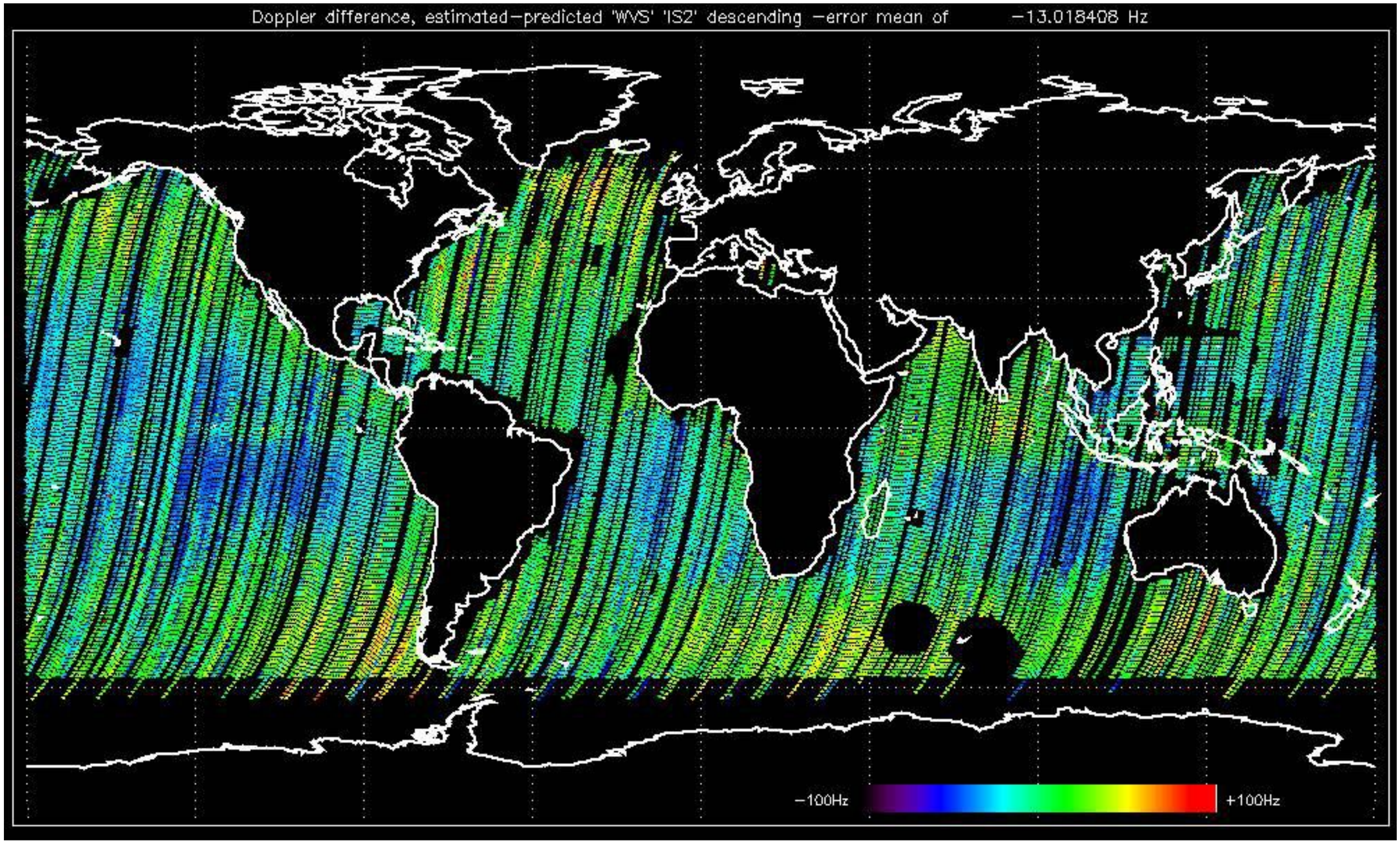

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


Doppler Bias[Hz]
400
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
03−May
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −14.043222 Hz
−100Hz
+100Hz

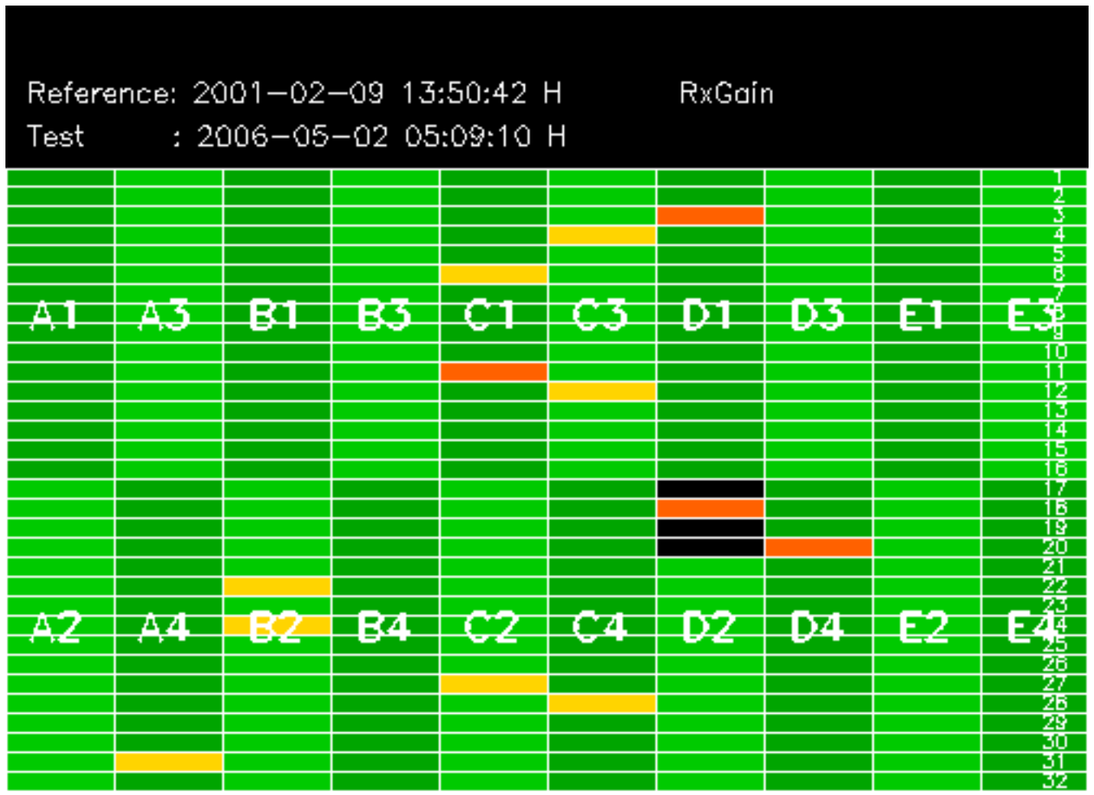

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −5.4307439 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −7.9122416 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −13.018408 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-02 05:09:10 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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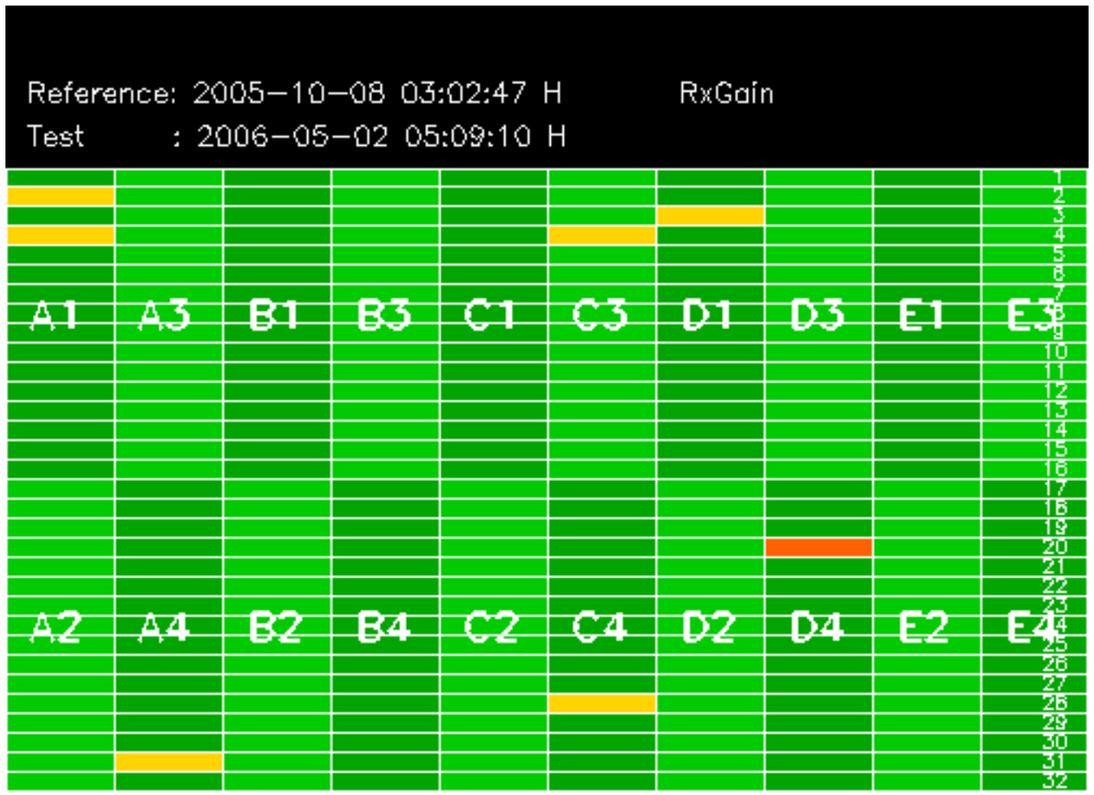
Reference: 2005-10-08 03:02:47 H
Test : 2006-05-02 05:09:10 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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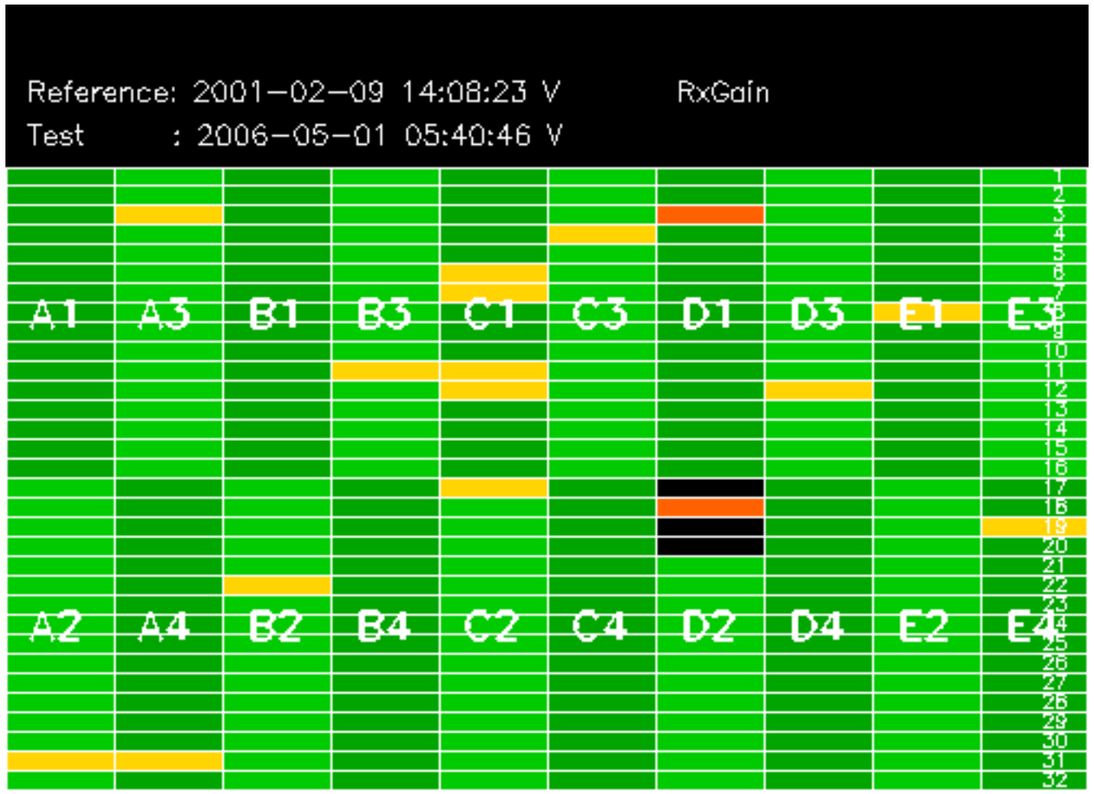
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-01 05:40:46 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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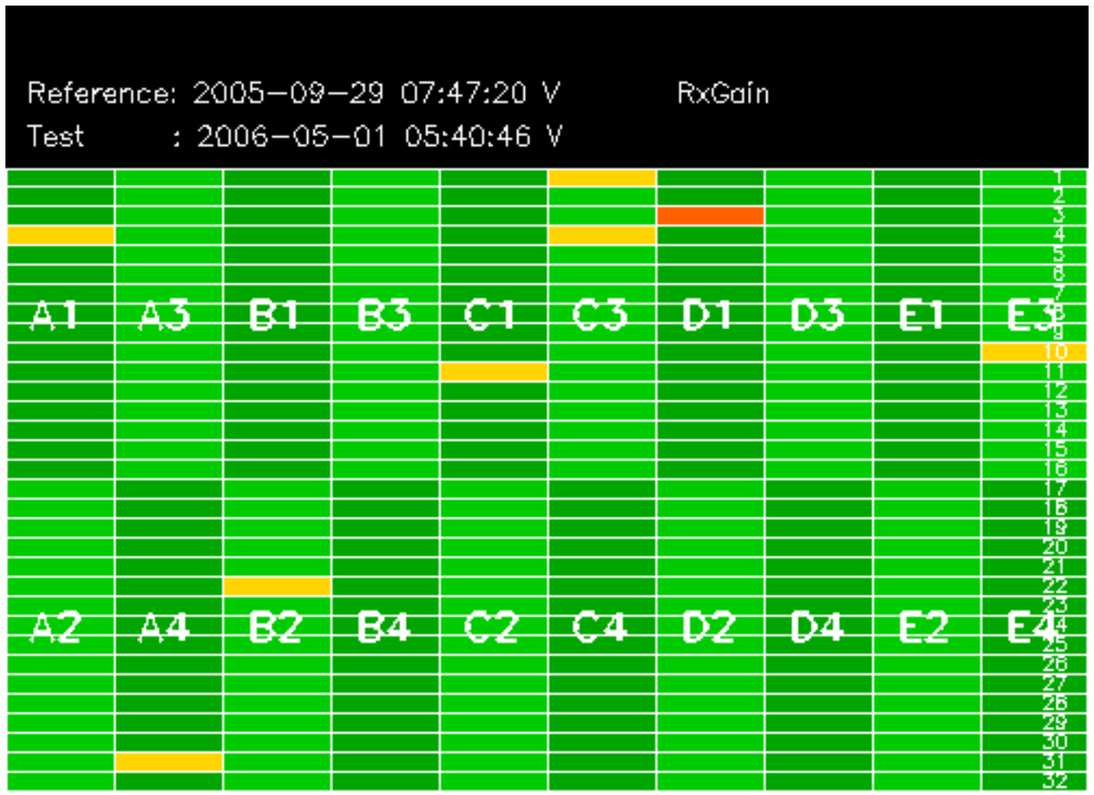
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-01 05:40:46 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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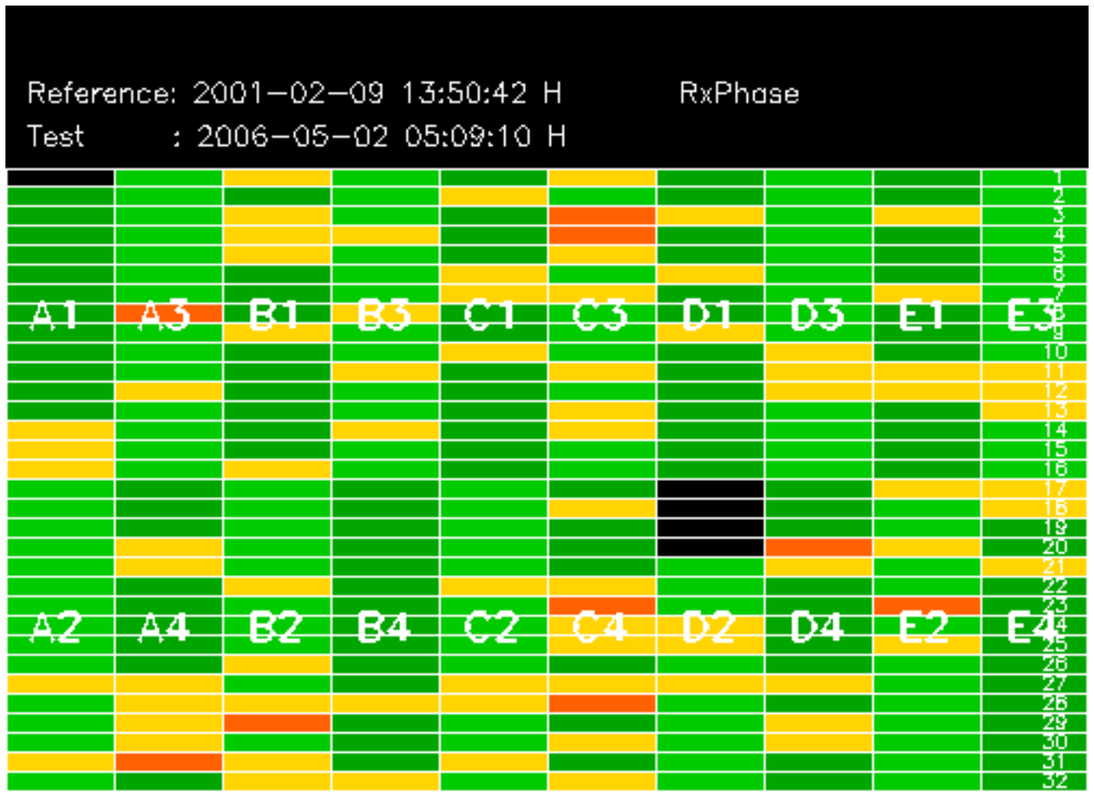
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-05-02 05:09:10 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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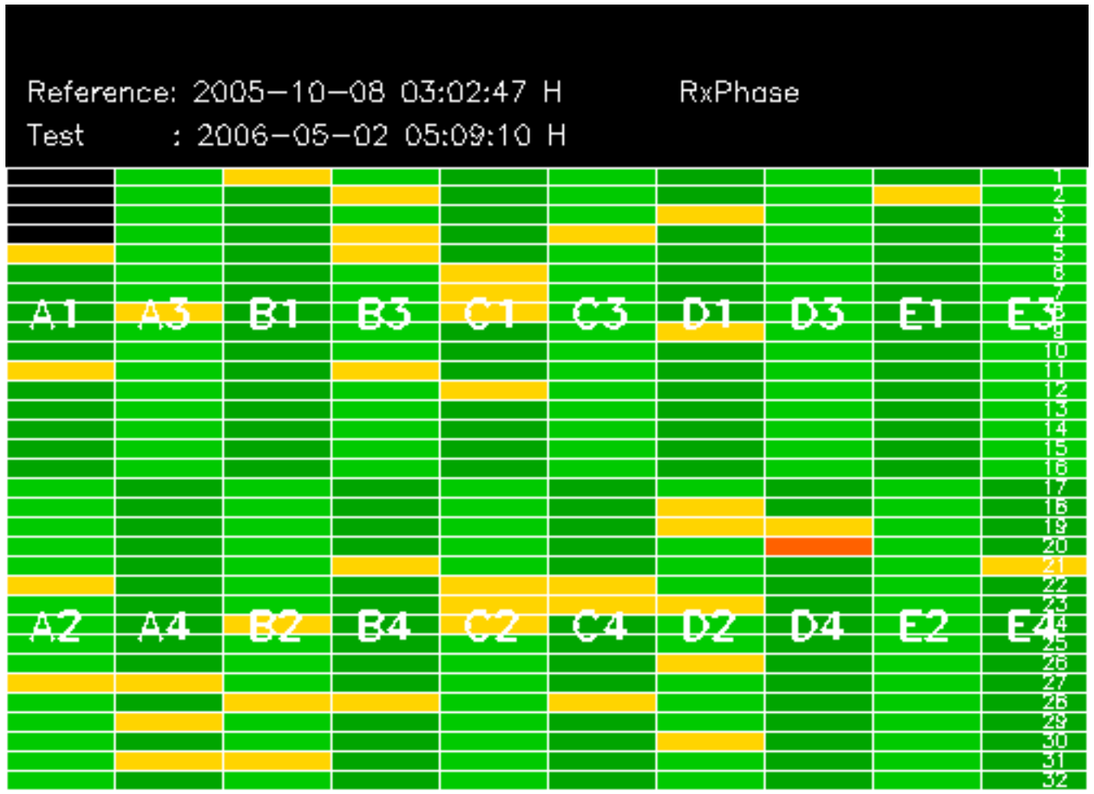
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-05-02 05:09:10 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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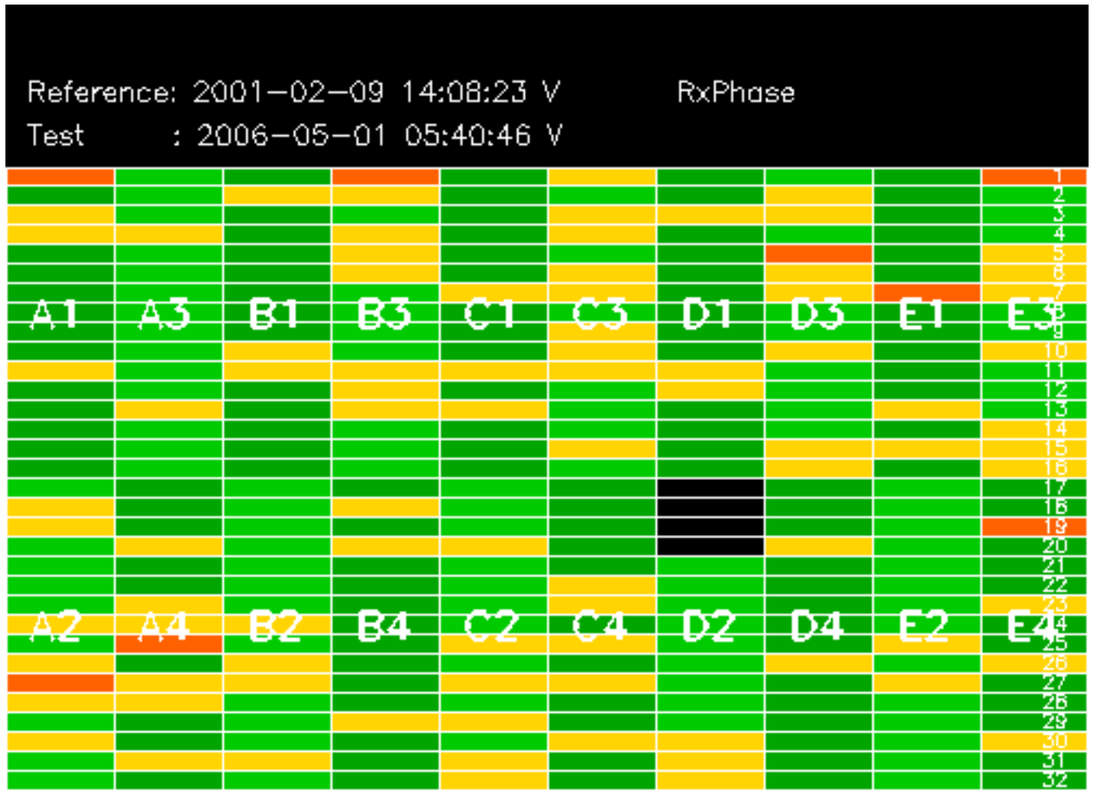
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-01 05:40:46 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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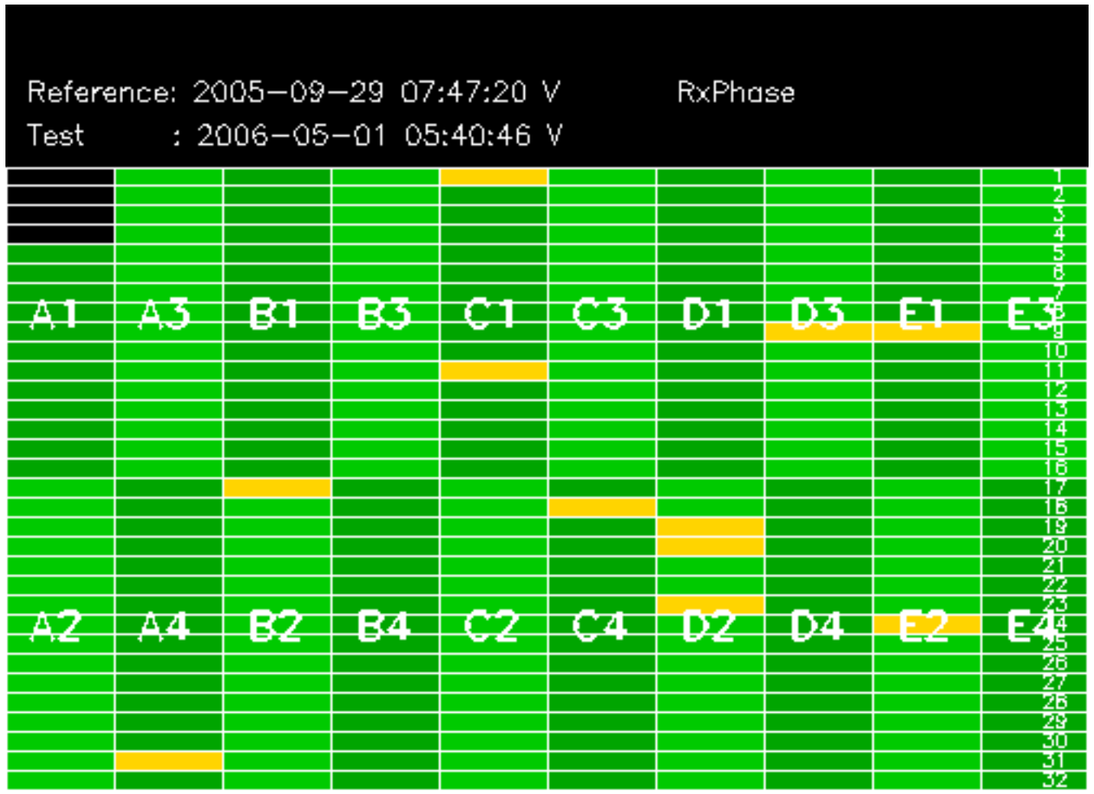
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-01 05:40:46 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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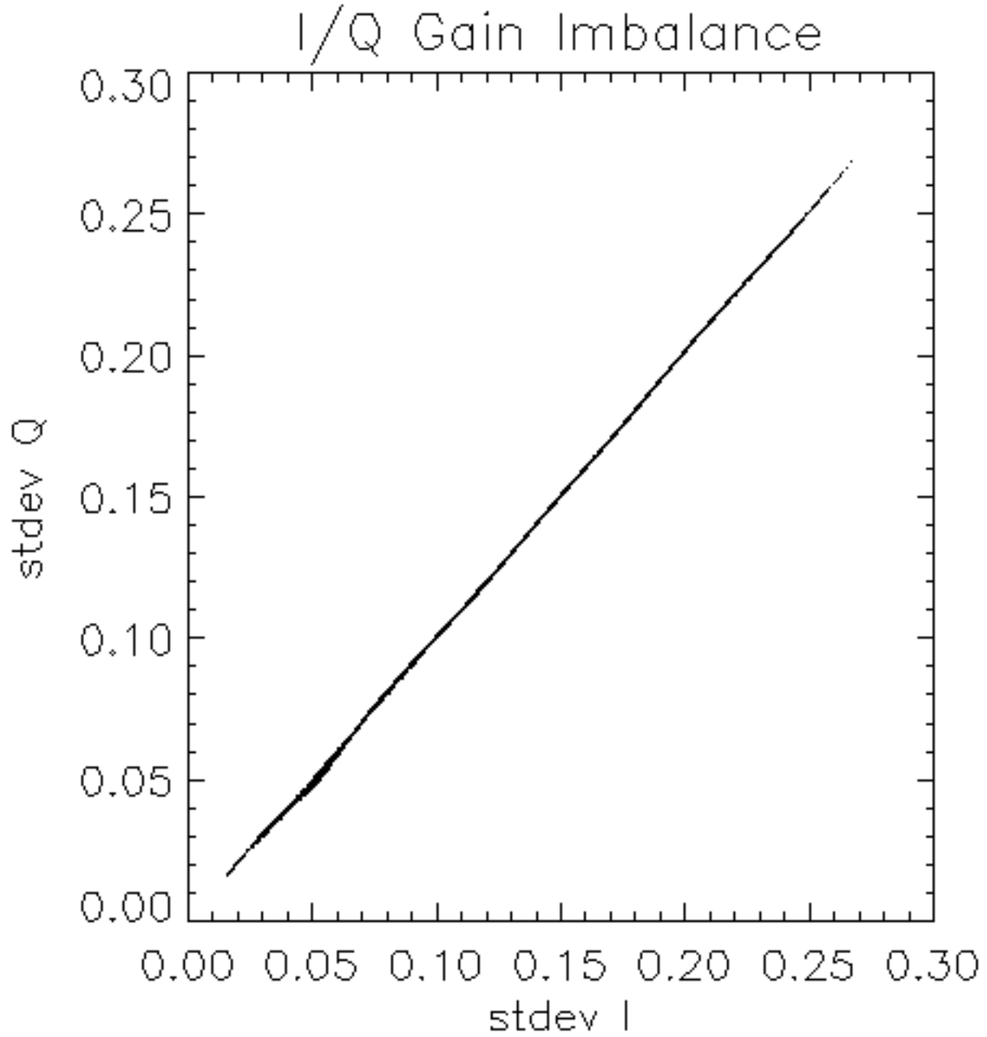
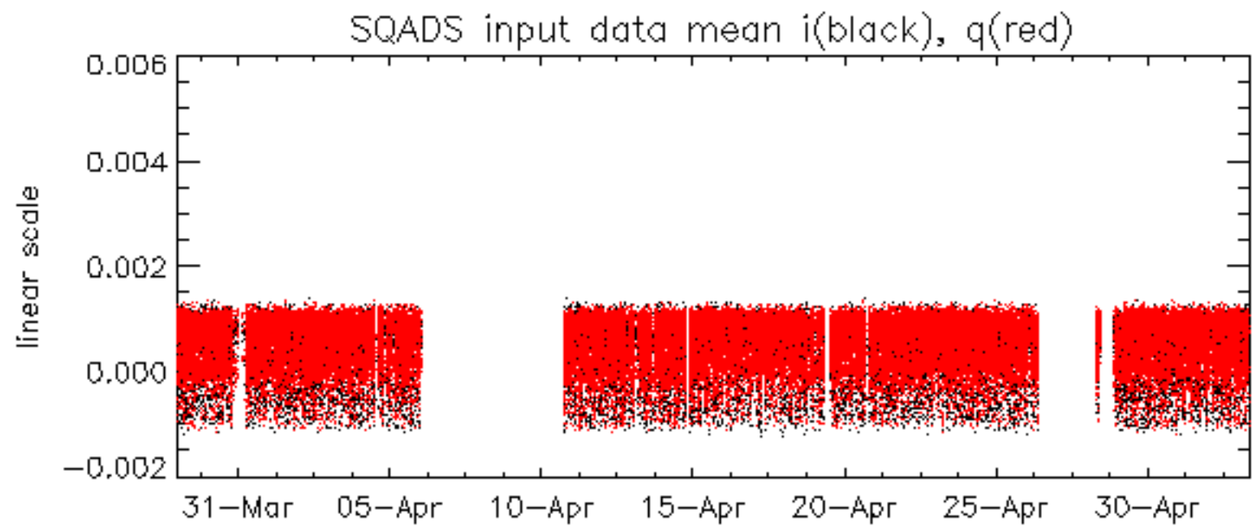
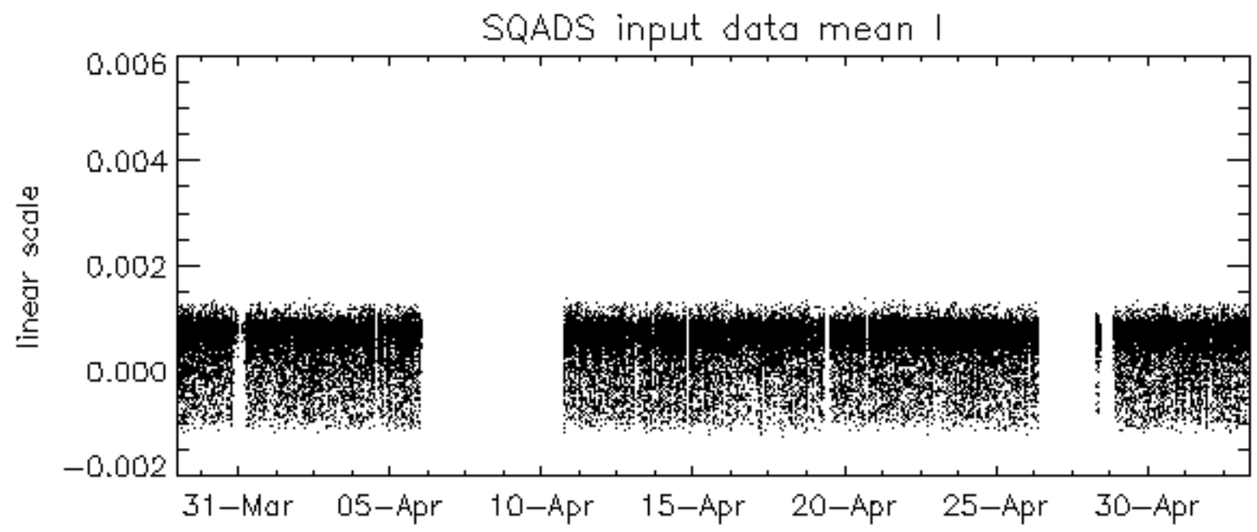
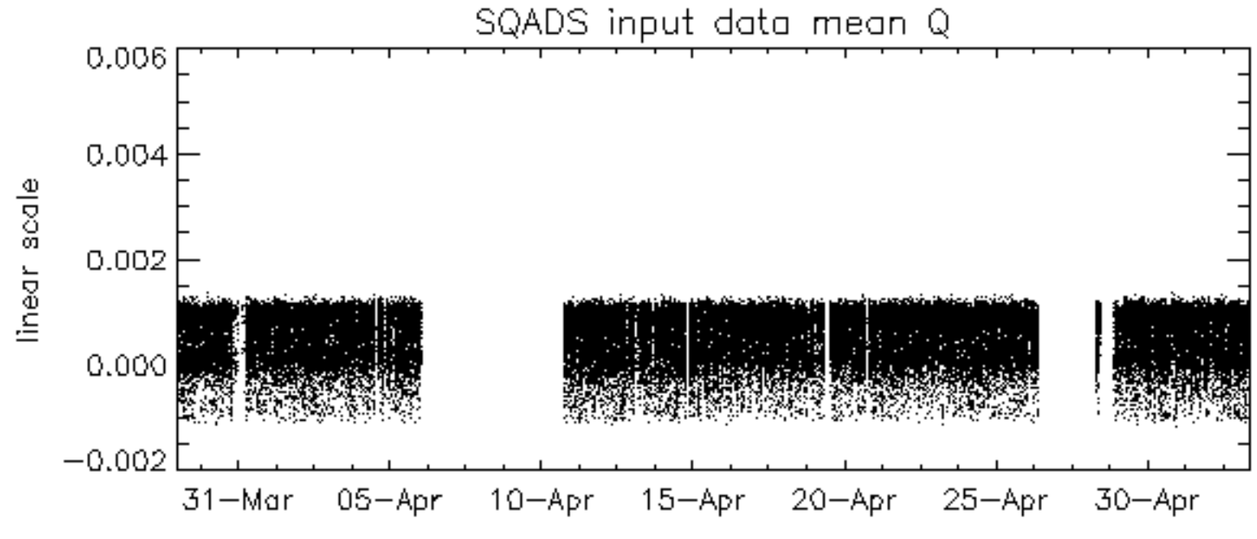
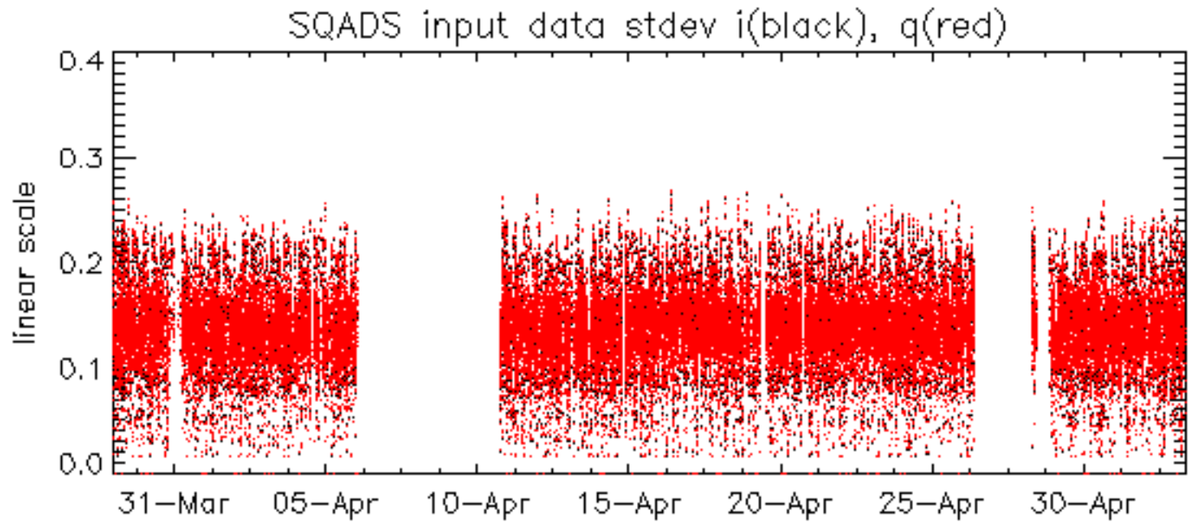
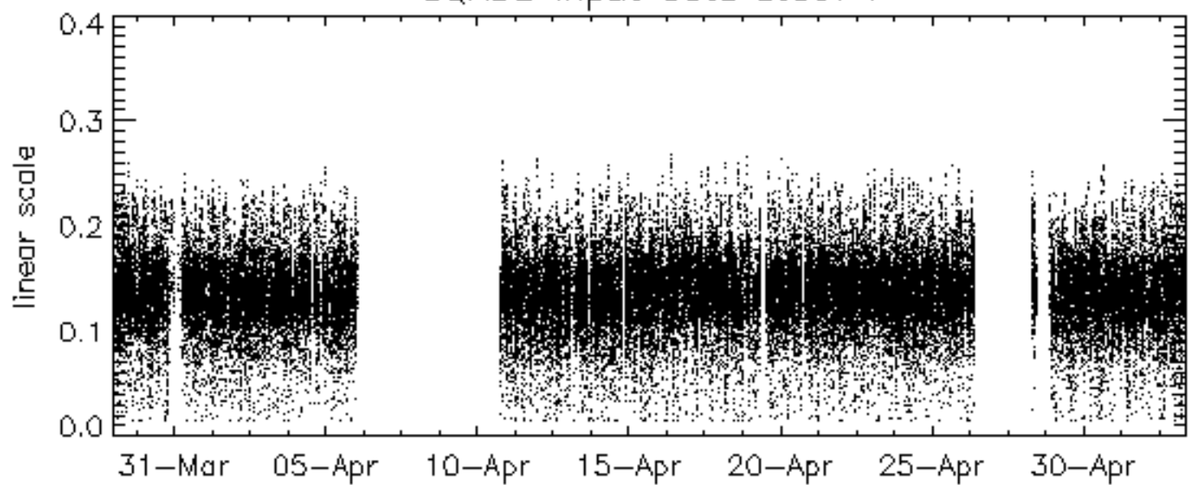

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

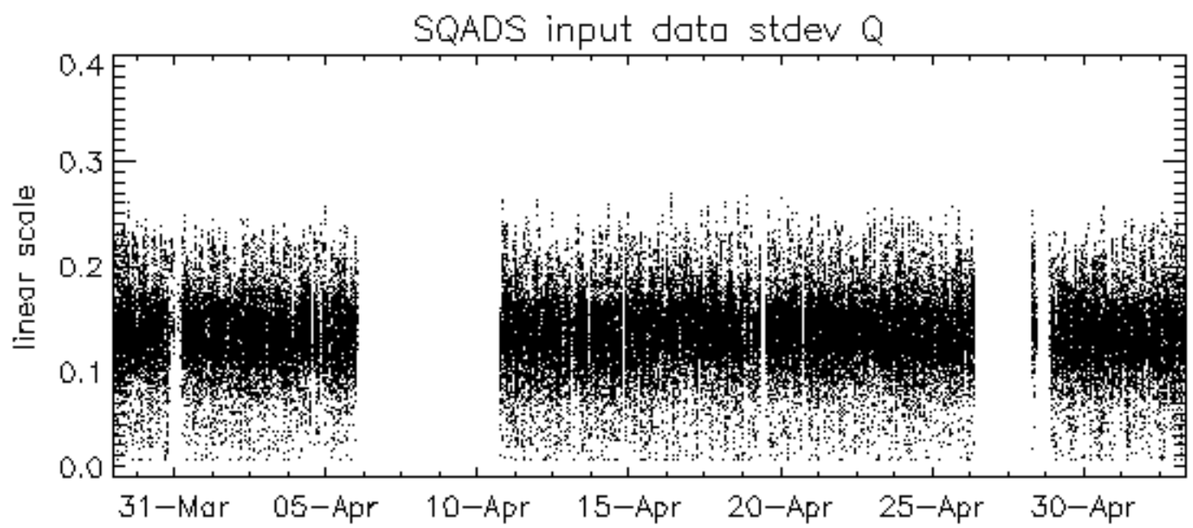

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Mar
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr

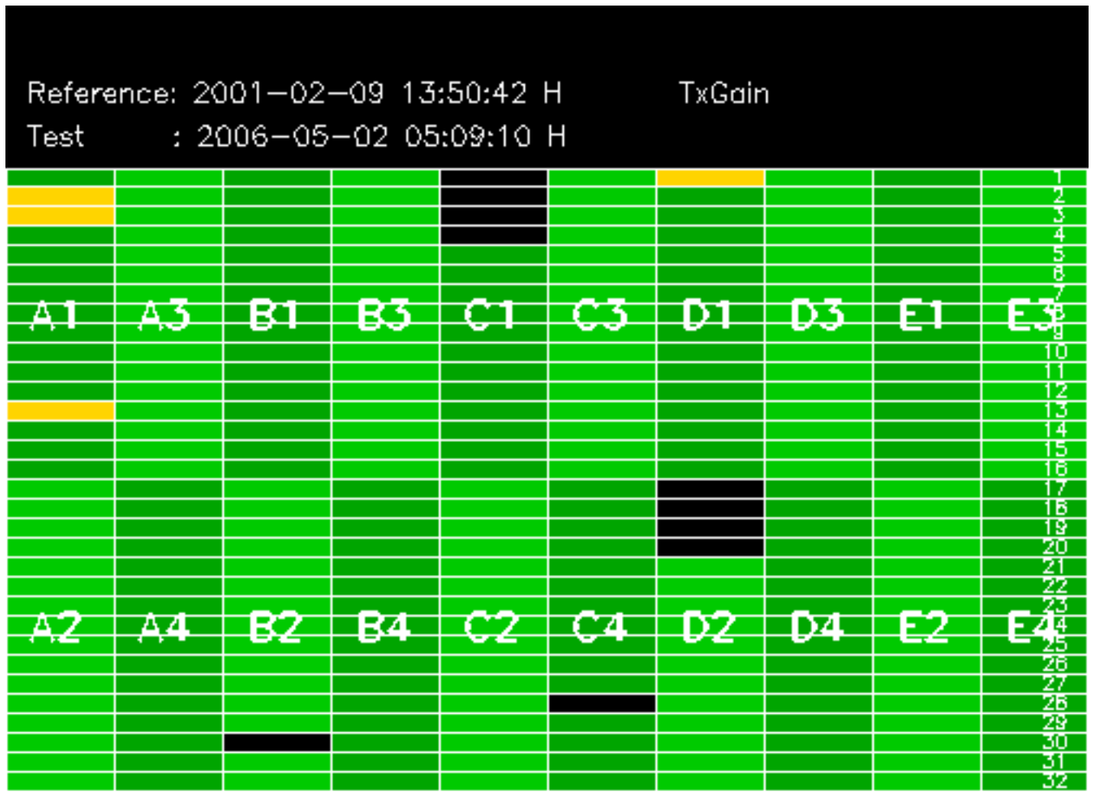

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Mar
05−Apr
10−Apr
15−Apr
20−Apr
25−Apr
30−Apr


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-02 05:09:10 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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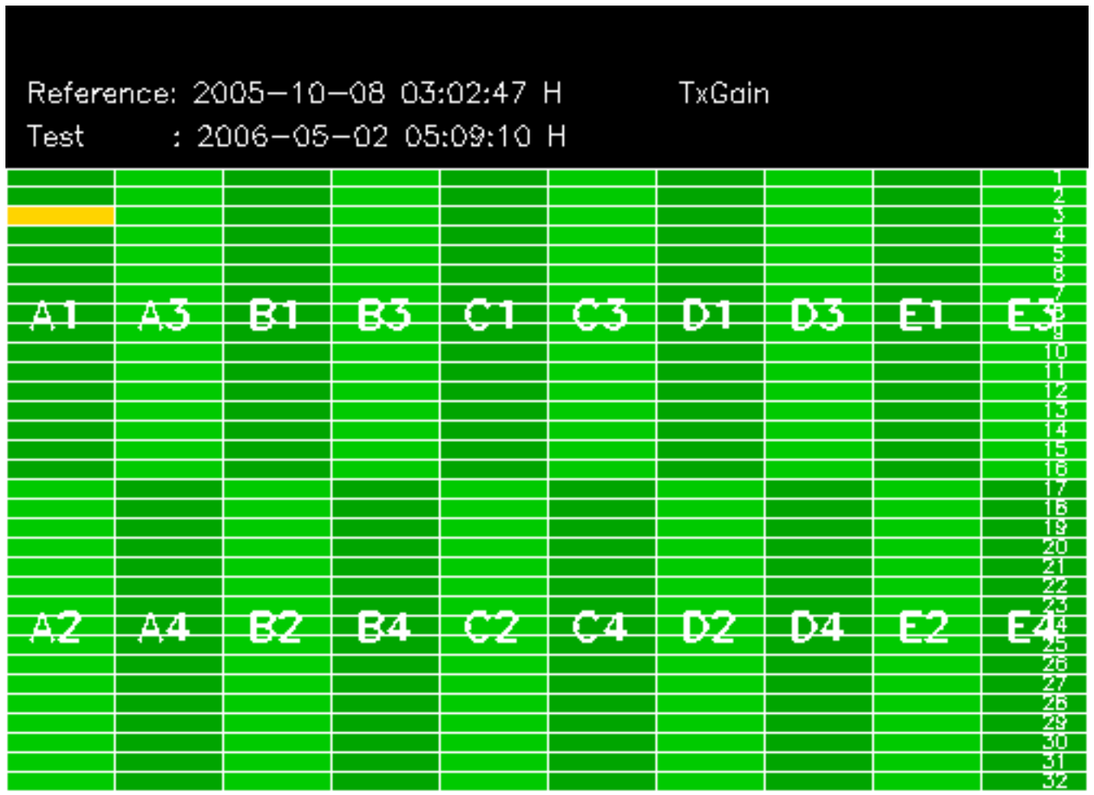
Reference: 2005-10-08 03:02:47 H
Test : 2006-05-02 05:09:10 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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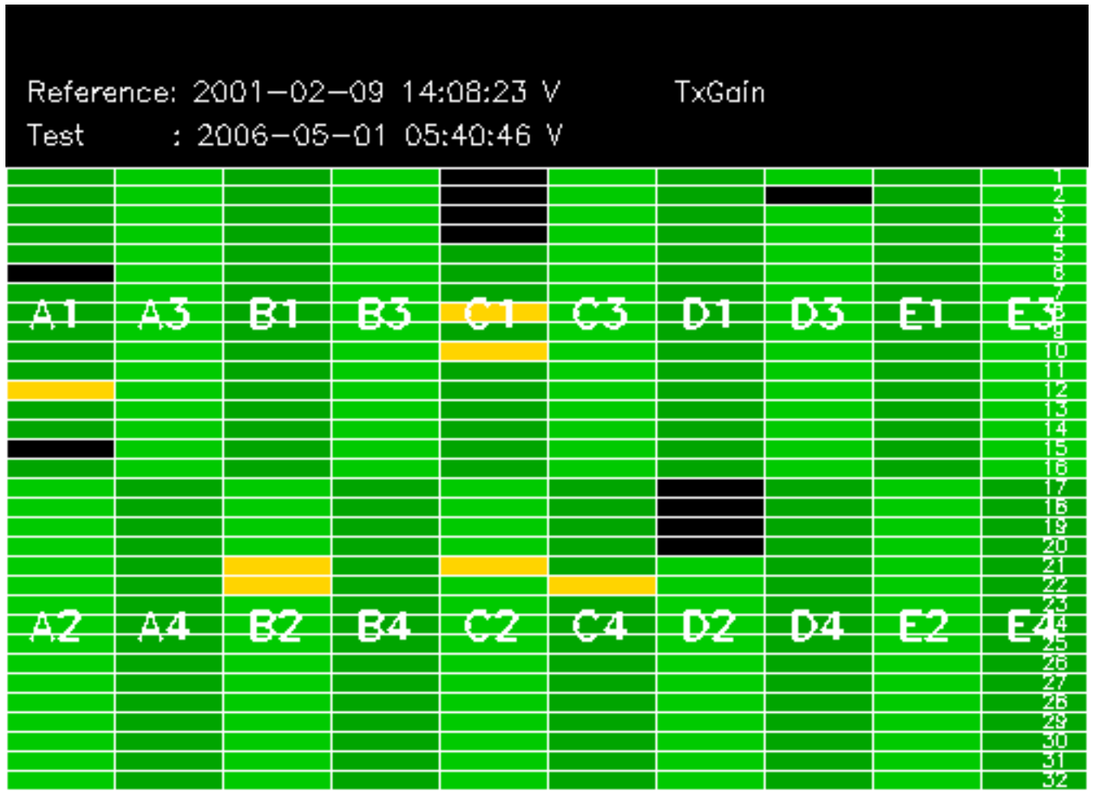
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-01 05:40:46 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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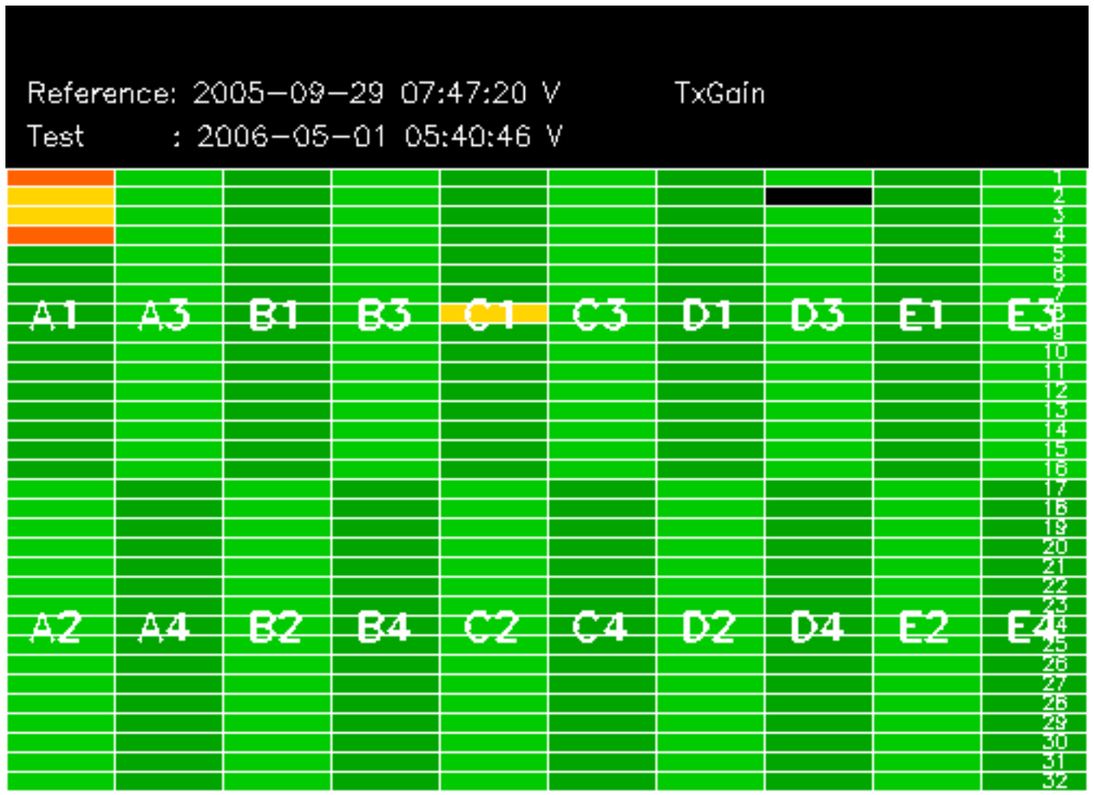
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-01 05:40:46 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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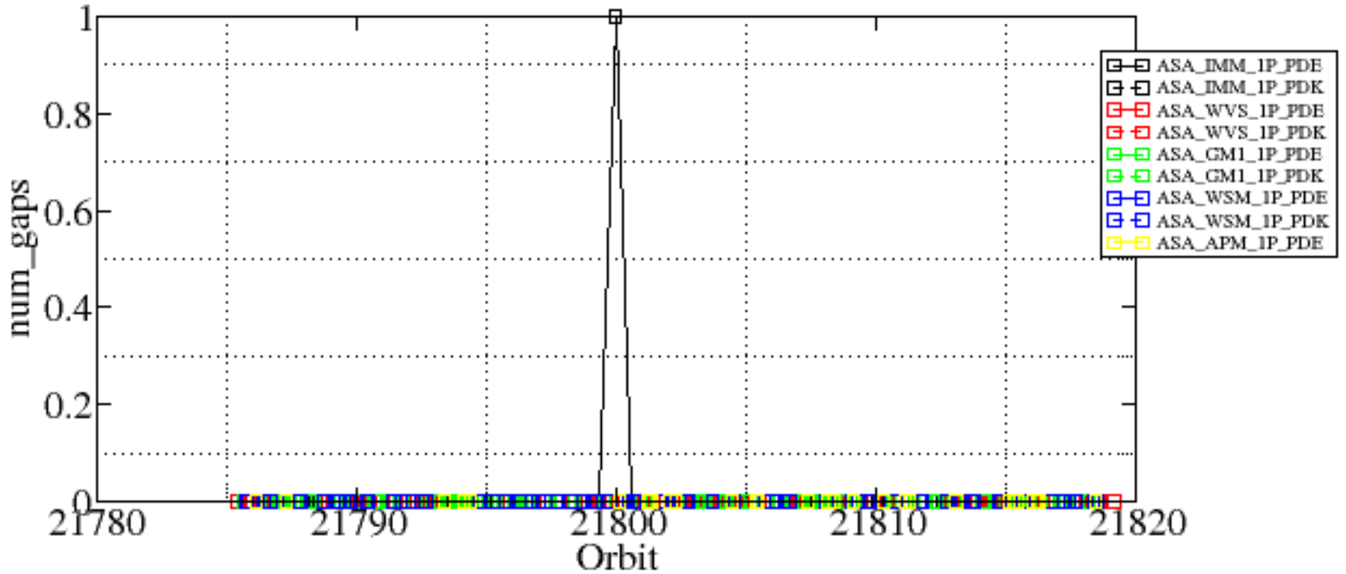
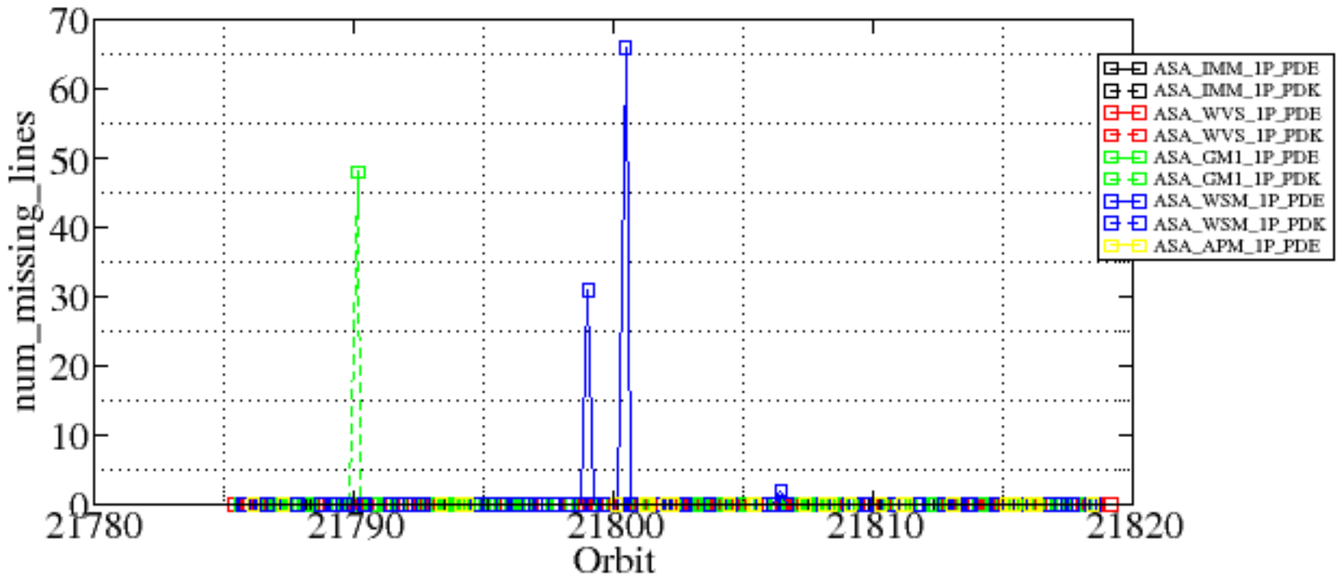
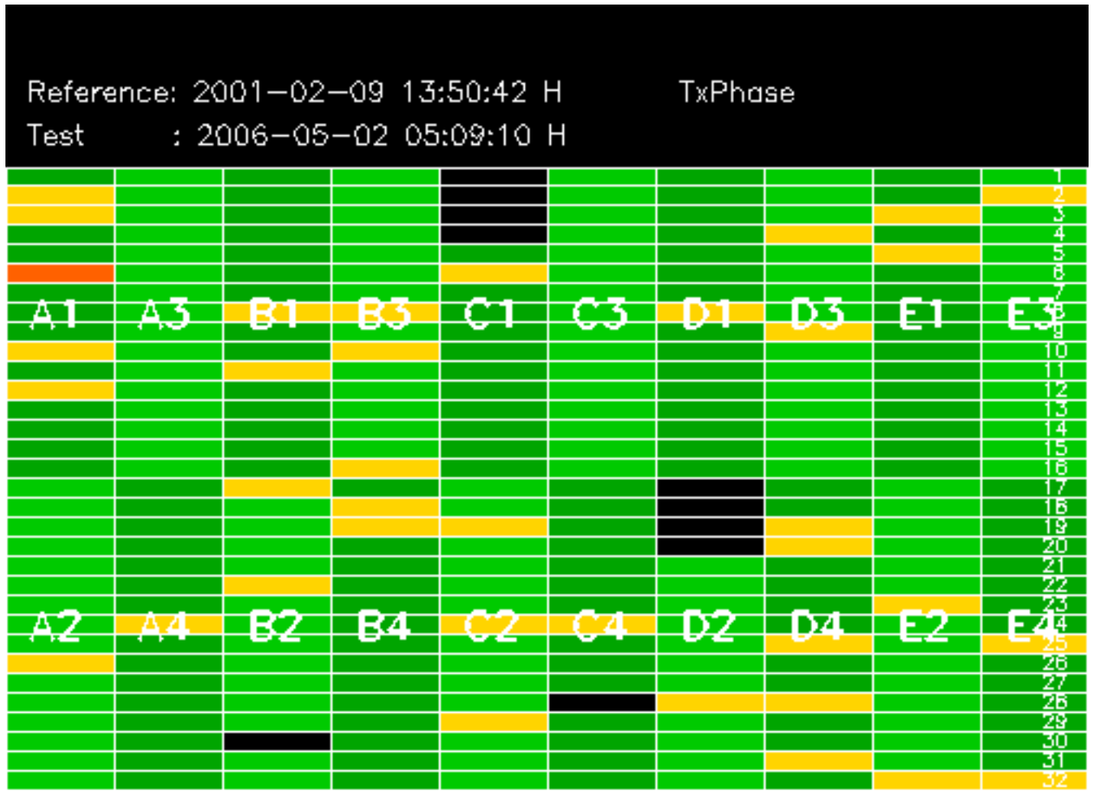
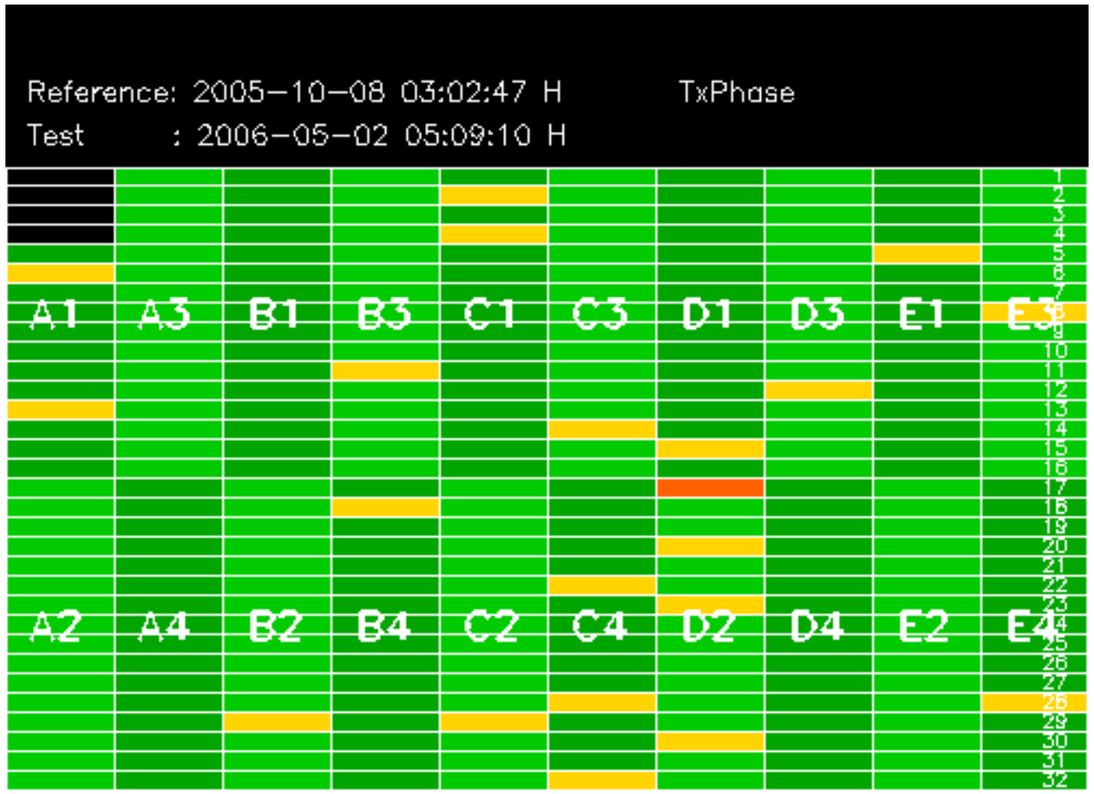
Summary of analysis for the last 3 days 2006050[123]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060502_003712_000001362047_00202_21799_3993.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20060501_081050_000007372047_00193_21790_2679.N1 </td> <td>0 </td> <td>48 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060501_230249_000001222047_00202_21799_7447.N1 </td> <td>0 </td> <td>31 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060502_012718_000001282047_00203_21800_7473.N1 </td> <td>0 </td> <td>66 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060502_112806_000001832047_00209_21806_7544.N1 </td> <td>0 </td> <td>2 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
21780
21790
21800
21810
21820
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
70
60
50
40
30
20
10
0
21780
21790
21800
21810
21820
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
TxPhase
Test : 2006-05-02 05:09:10 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
Test : 2006-05-02 05:09:10 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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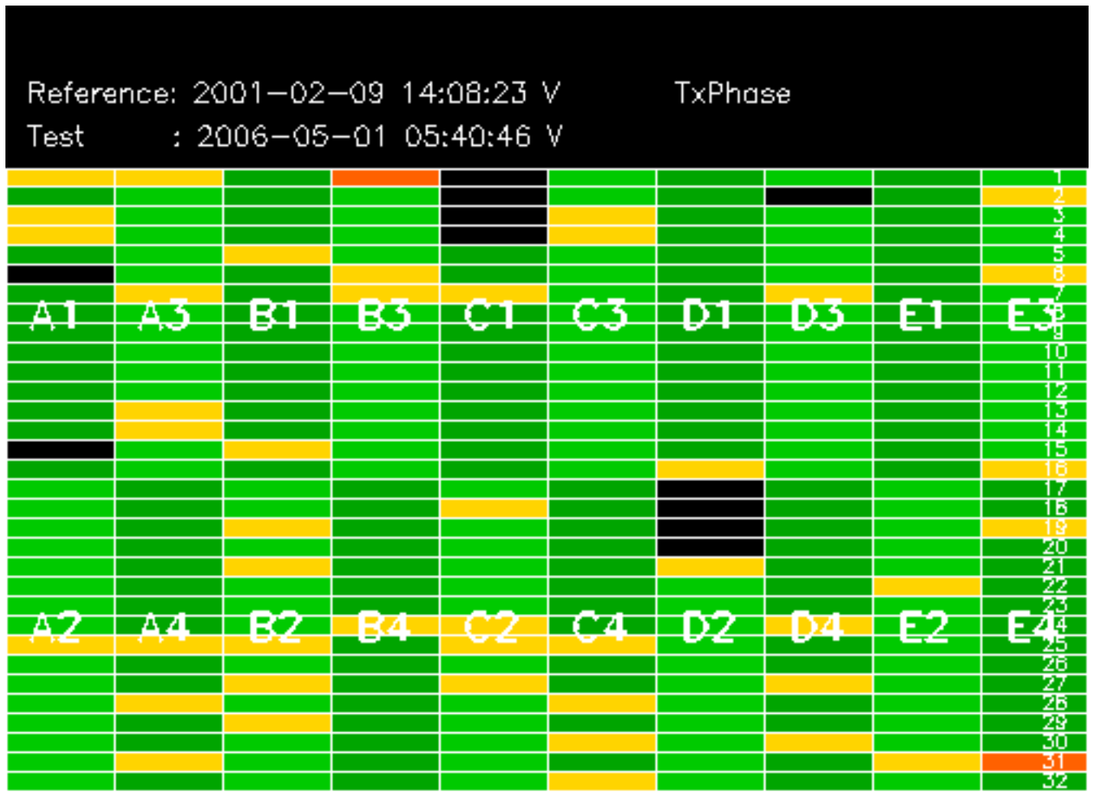
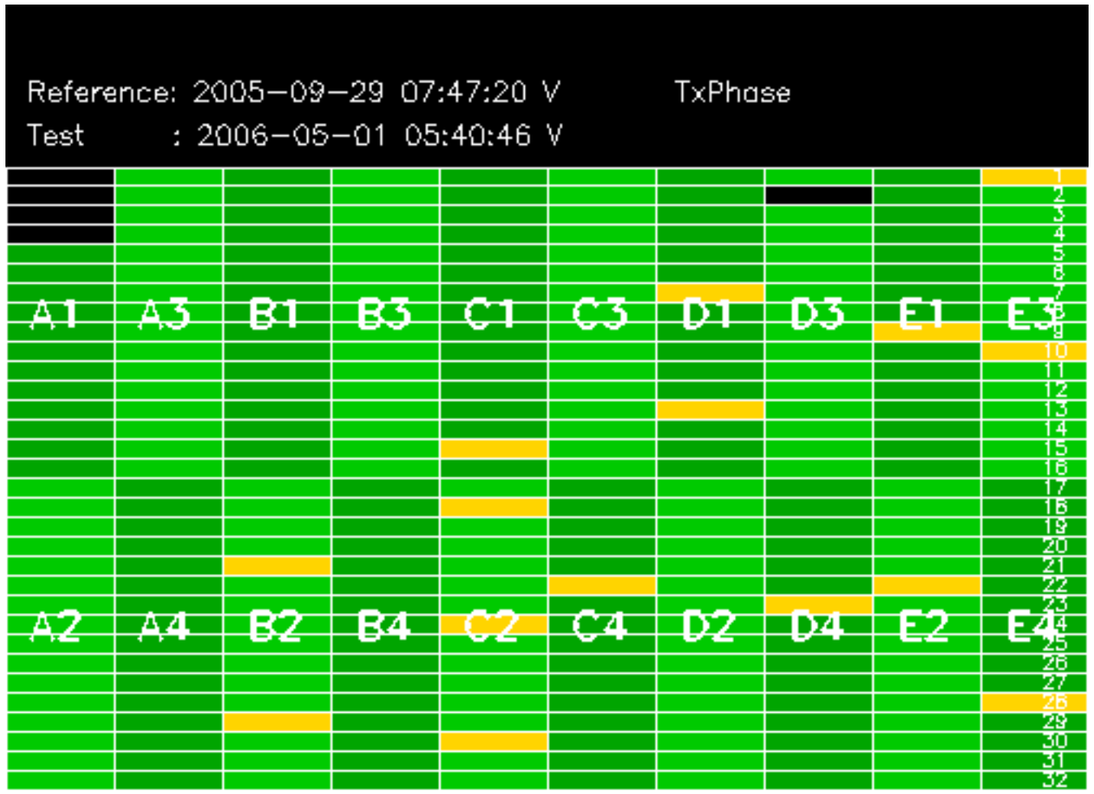

Reference: 2001-02-09 14:08:23 V
Test : 2006-05-01 05:40:46 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-05-01 05:40:46 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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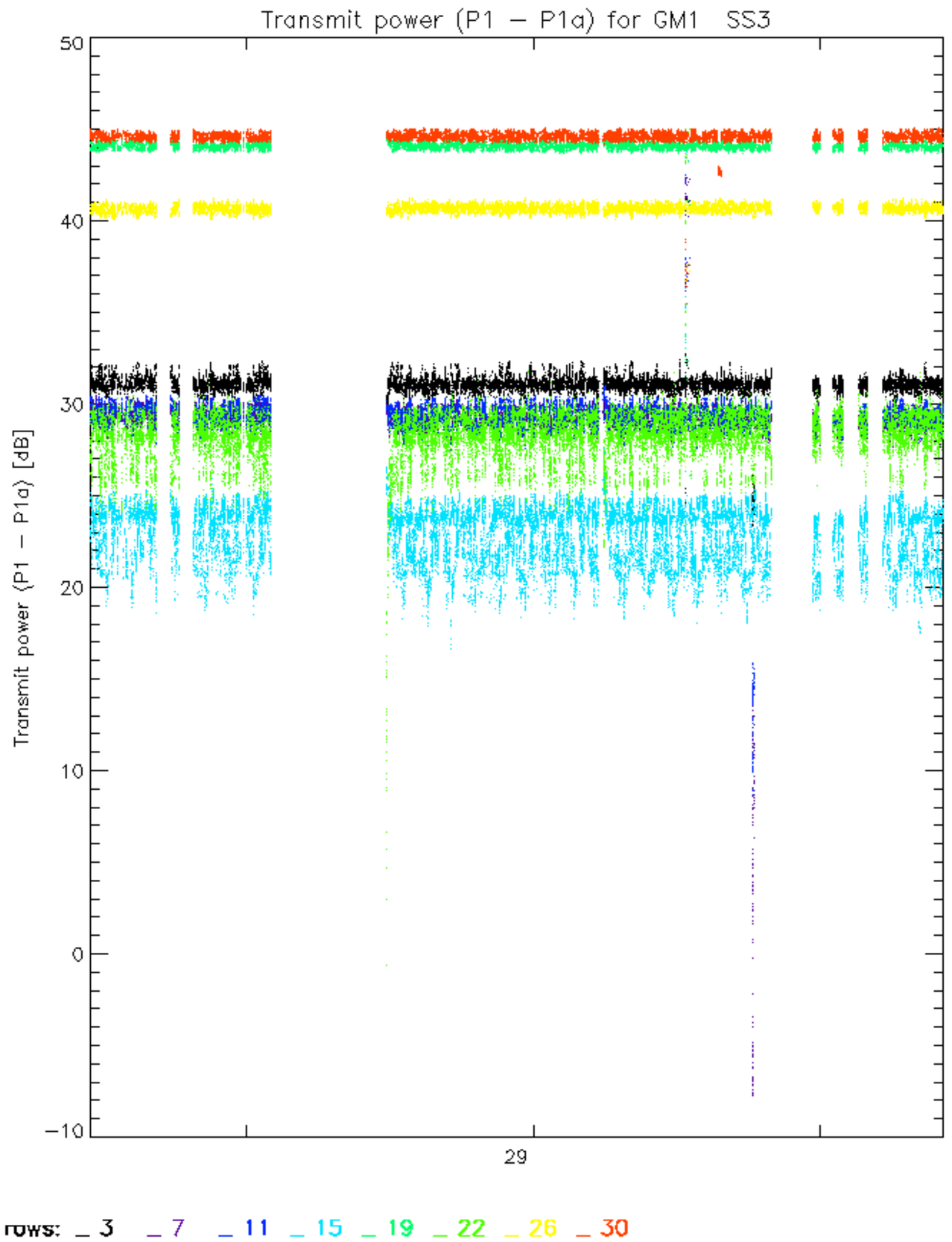
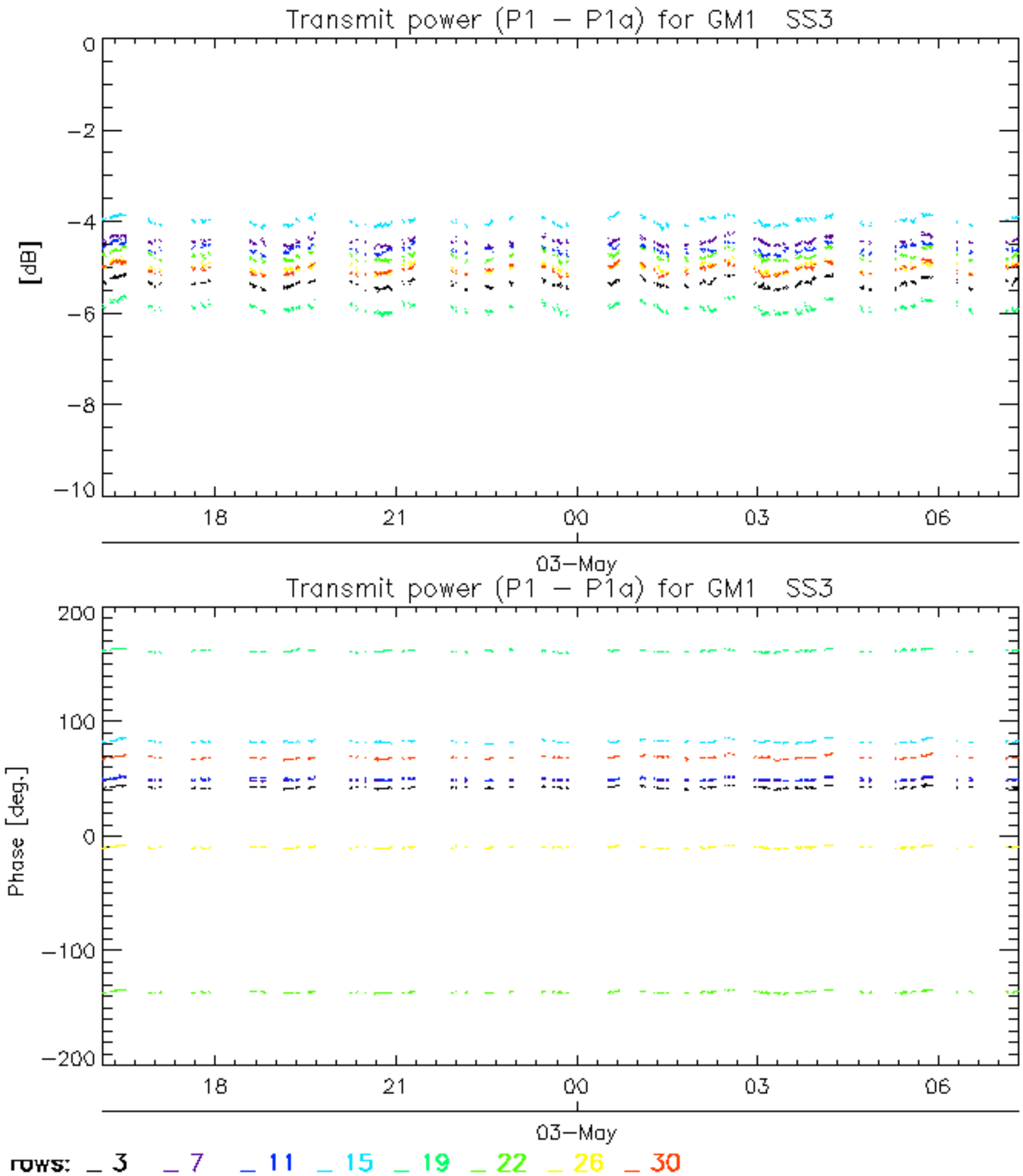
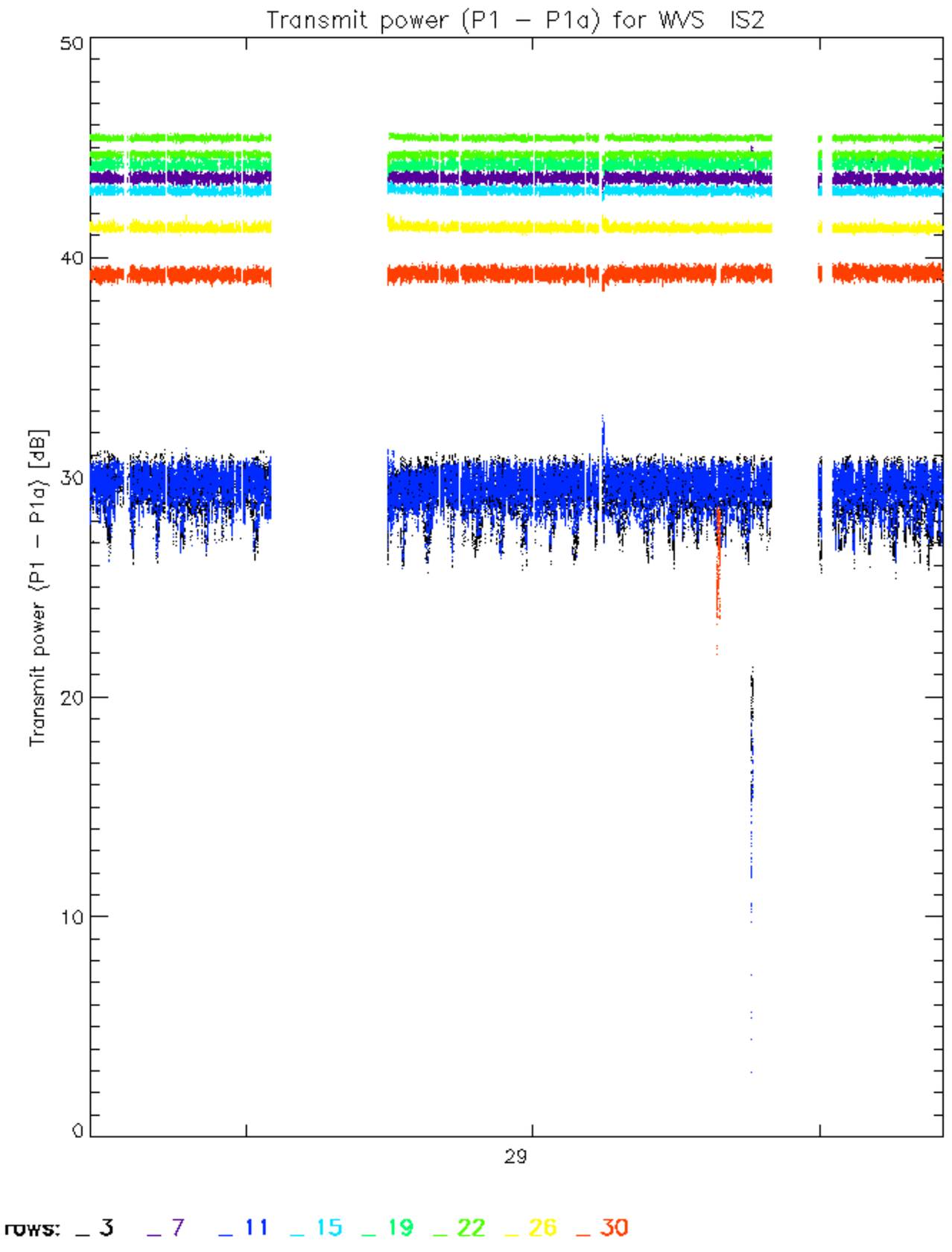
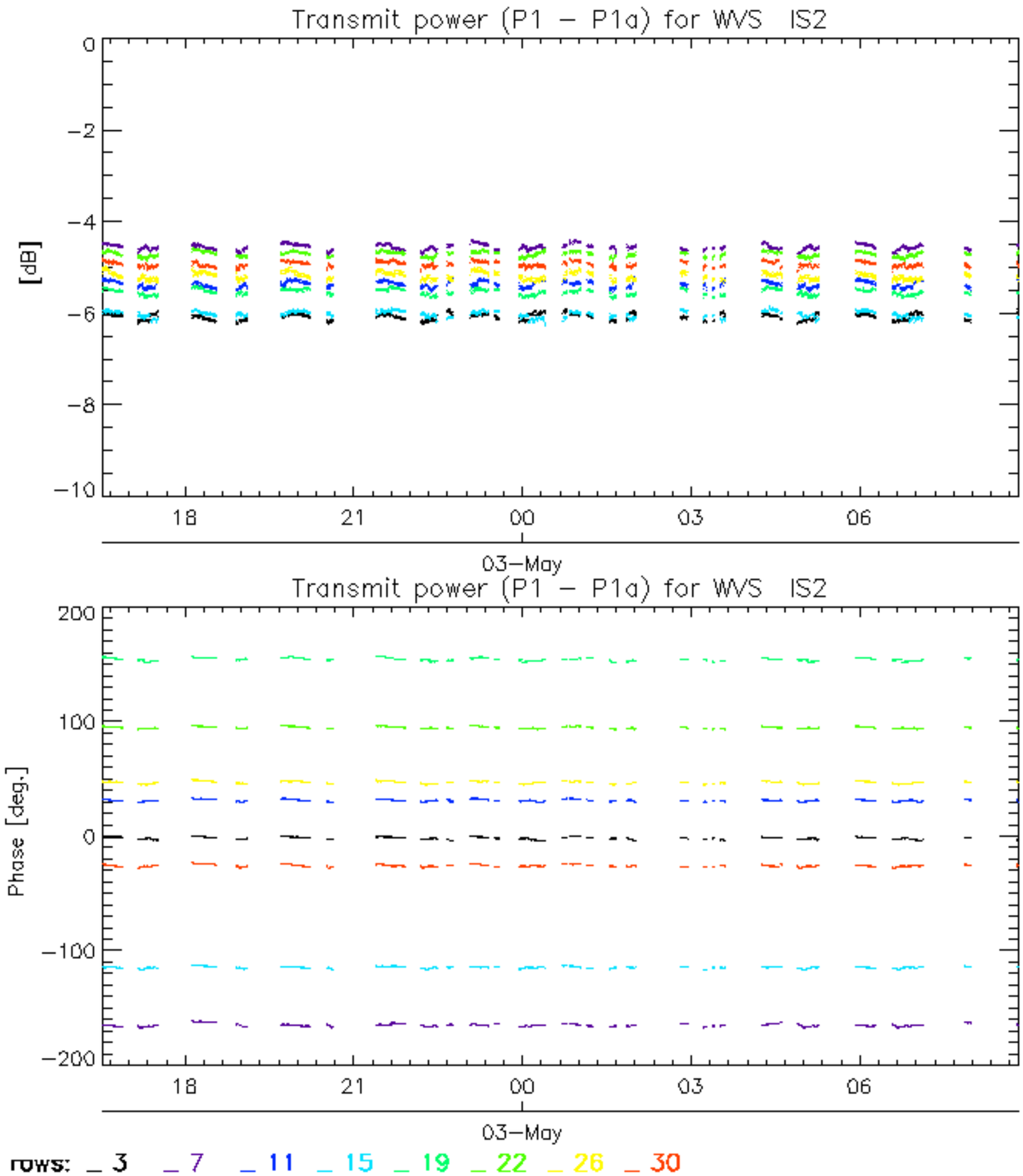

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
29
rows: 3 7 11 15 19 22 26 30


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


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
29
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
03–May
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
03–May
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.