PRELIMINARY REPORT OF 070517

last update on Thu May 17 23:13:48 GMT 2007

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 2007-05-16 00:00:00 to 2007-05-17 23:13:48

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

ASA_INS_AXVIEC20070306_164819_20070307_060000_20071231_000000	48	101	9	6	39
ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	9	18	3	0	4
ASA_CON_AXVIEC20070410_140202_20070204_165113_20071231_000000	48	101	9	6	39
ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	39	83	6	6	35
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	48	101	9	6	39

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_INS_AXVIEC20070306_164819_20070307_060000_20071231_000000	41	67	24	13	91
ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	2	5	0	0	8
ASA_CON_AXVIEC20070410_140202_20070204_165113_20071231_000000	41	67	24	13	91
ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	39	62	24	13	83
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	41	67	24	13	91

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	20070517 074715
H	20070516 081852

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
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☒

4.1.2 - Evolution for GM1

Evolution of cal pulses for GM1
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☒

4.2 - Cyclic statistics

4.2.1 - Evolution for WVS

Evolution of cal pulses for WVS
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P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1a	-15.197747	0.134735	-0.297661
7	P1a	-17.590719	0.092764	-0.109039
11	P1a	-17.693018	0.348860	-0.341062
15	P1a	-13.134262	0.149817	-0.288312
19	P1a	-15.425742	0.067546	-0.144145
22	P1a	-15.993923	0.359250	-0.076087
26	P1a	-14.951015	0.216026	0.049512
30	P1a	-17.933260	0.403906	-0.510916

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-5.781947	0.010075	-0.023927
7	P1	-3.162089	0.008994	-0.044779
11	P1	-4.197945	0.016149	0.053545
15	P1	-6.457174	0.019824	-0.108729
19	P1	-3.776999	0.012031	0.003116
22	P1	-4.744713	0.010703	0.032715
26	P1	-3.908132	0.018677	-0.005130
30	P1	-5.963531	0.009290	0.006384

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-22.653143	0.093317	0.043922
7	P2	-21.517677	0.093734	0.106671
11	P2	-15.293066	0.122488	0.125108
15	P2	-7.133050	0.090880	-0.006586
19	P2	-9.121064	0.083224	-0.015594
22	P2	-18.086435	0.078698	0.001430
26	P2	-16.646551	0.084959	-0.065183
30	P2	-19.255367	0.084390	0.065249

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.245628	0.004798	0.003428
7	P3	-8.245628	0.004798	0.003428
11	P3	-8.245628	0.004798	0.003428
15	P3	-8.245628	0.004798	0.003428
19	P3	-8.245628	0.004798	0.003428
22	P3	-8.245628	0.004798	0.003428
26	P3	-8.245628	0.004798	0.003428
30	P3	-8.245628	0.004798	0.003428

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1


P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1a	-11.420715	0.180547	-0.775482
7	P1a	-10.029783	0.163514	0.115334
11	P1a	-10.683049	0.085068	-0.013094
15	P1a	-10.791305	0.145798	0.122226
19	P1a	-15.847094	0.092076	-0.116832
22	P1a	-21.482693	1.419524	-0.041807
26	P1a	-15.558575	0.334259	-0.053694
30	P1a	-18.269615	0.434743	0.020022

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-8.074803	0.327900	1.512890
7	P1	-2.378718	0.086420	0.094705
11	P1	-2.873219	0.022051	0.027217
15	P1	-3.799900	0.035758	0.044443
19	P1	-3.602106	0.015865	-0.039395
22	P1	-4.951407	0.023053	0.028249

26	P1	-6.054865	0.023460	-0.042676
30	P1	-5.352722	0.031907	-0.040711

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-18.207897	0.073919	-0.075786
7	P2	-22.061323	0.168796	-0.071148
11	P2	-10.657210	0.046165	-0.064015
15	P2	-4.953770	0.044395	-0.067870
19	P2	-6.881384	0.042374	-0.022765
22	P2	-8.107851	0.082741	0.019786
26	P2	-24.345320	0.135106	-0.078683
30	P2	-21.703920	0.108840	0.002216

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.092952	0.005123	-0.000948
7	P3	-8.092921	0.005122	-0.000958
11	P3	-8.092883	0.005115	-0.001277
15	P3	-8.092878	0.005122	-0.001365
19	P3	-8.092936	0.005124	-0.001436
22	P3	-8.092785	0.005121	-0.001314
26	P3	-8.092787	0.005130	-0.001216
30	P3	-8.092828	0.005118	-0.001062

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

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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	0.000549934
	stdev	1.93042e-07
MEAN Q	mean	0.000508780
	stdev	2.38374e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136157
	stdev	0.00117660
STDEV Q	mean	0.136547
	stdev	0.00119372

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2007051[567]
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_1PNPDE20070515_014512_000000352058_00103_27211_6080.N1	0	29
ASA_WSM_1PNPDE20070515_201141_000000672058_00114_27222_7296.N1	0	29
ASA_WSM_1PNPDE20070515_233737_000001412058_00116_27224_7642.N1	0	35
ASA_WSM_1PNPDE20070516_161232_000000852058_00126_27234_8519.N1	0	1
ASA_WSM_1PNPDE20070516_171622_000002252058_00127_27235_8573.N1	0	62

ASA_WSM_1PNPDE20070517_035646_000001282058_00133_27241_9322.N1	0	1
ASA_WSM_1PNPDE20070517_164501_000000852058_00141_27249_9765.N1	0	57
ASA_WSM_1PNPDE20070517_182820_000000852058_00142_27250_9815.N1	0	67
ASA_WSM_1PNPDK20070516_135852_000000862058_00125_27233_1603.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

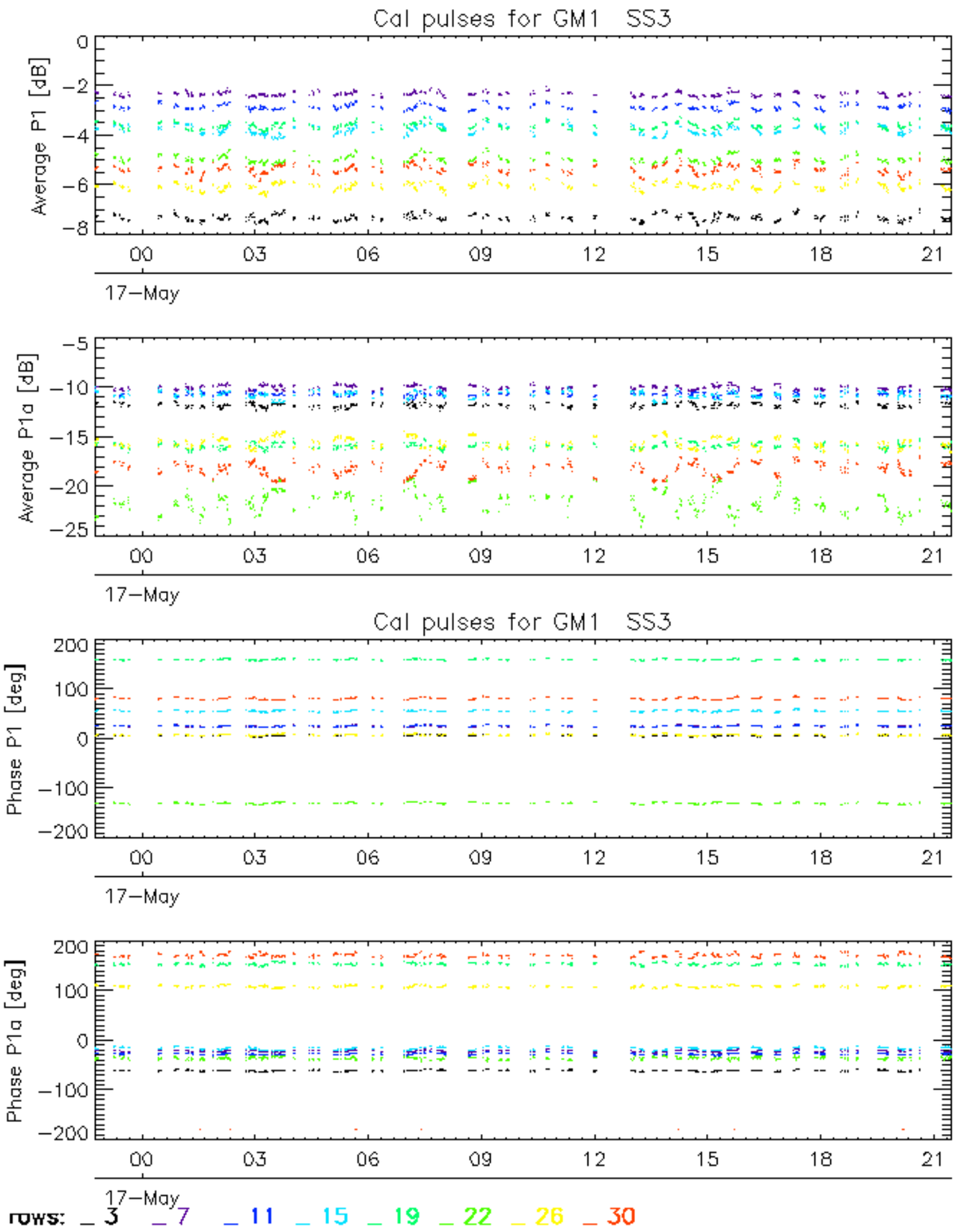
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

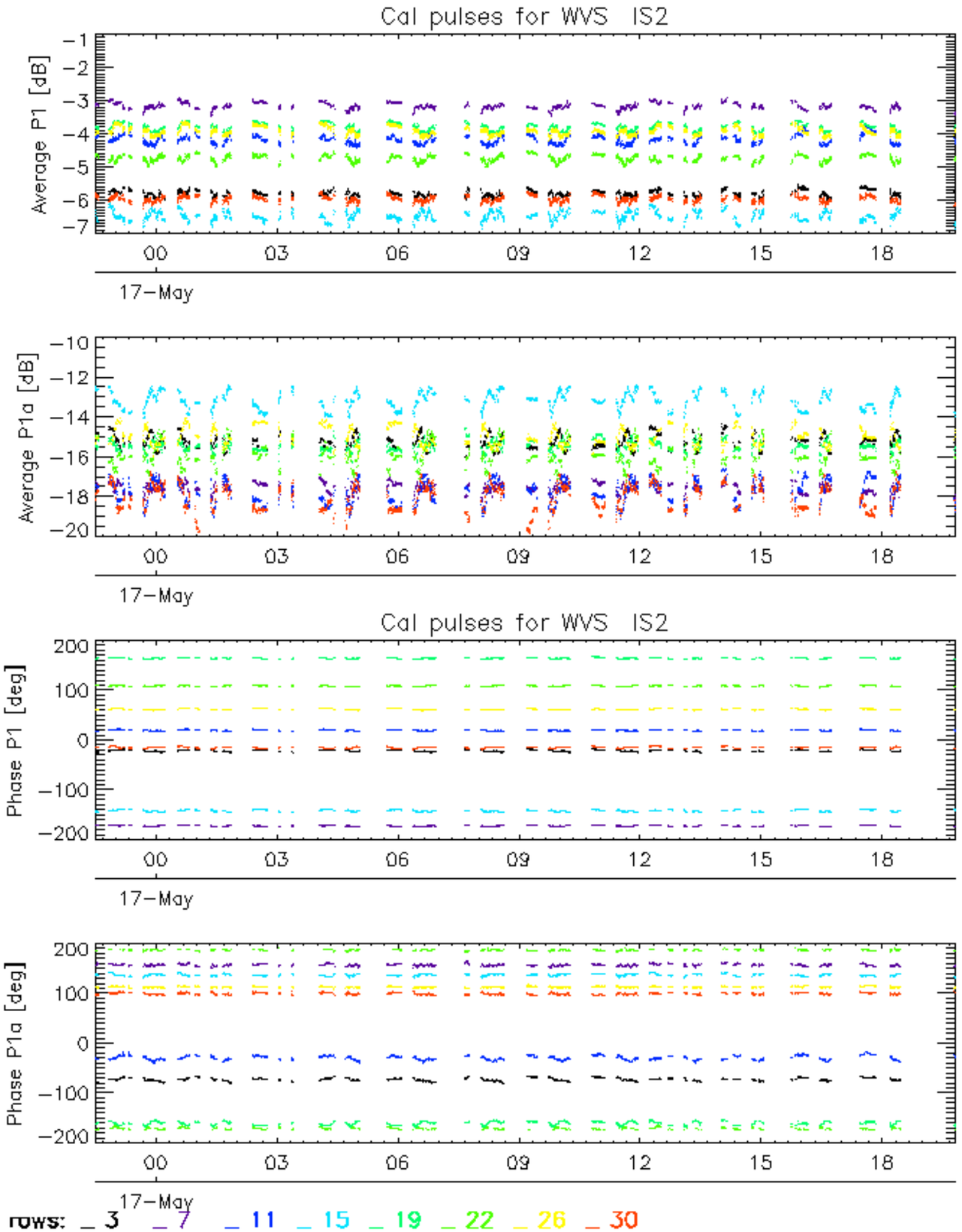
7.5 - Absolute Doppler for GM1

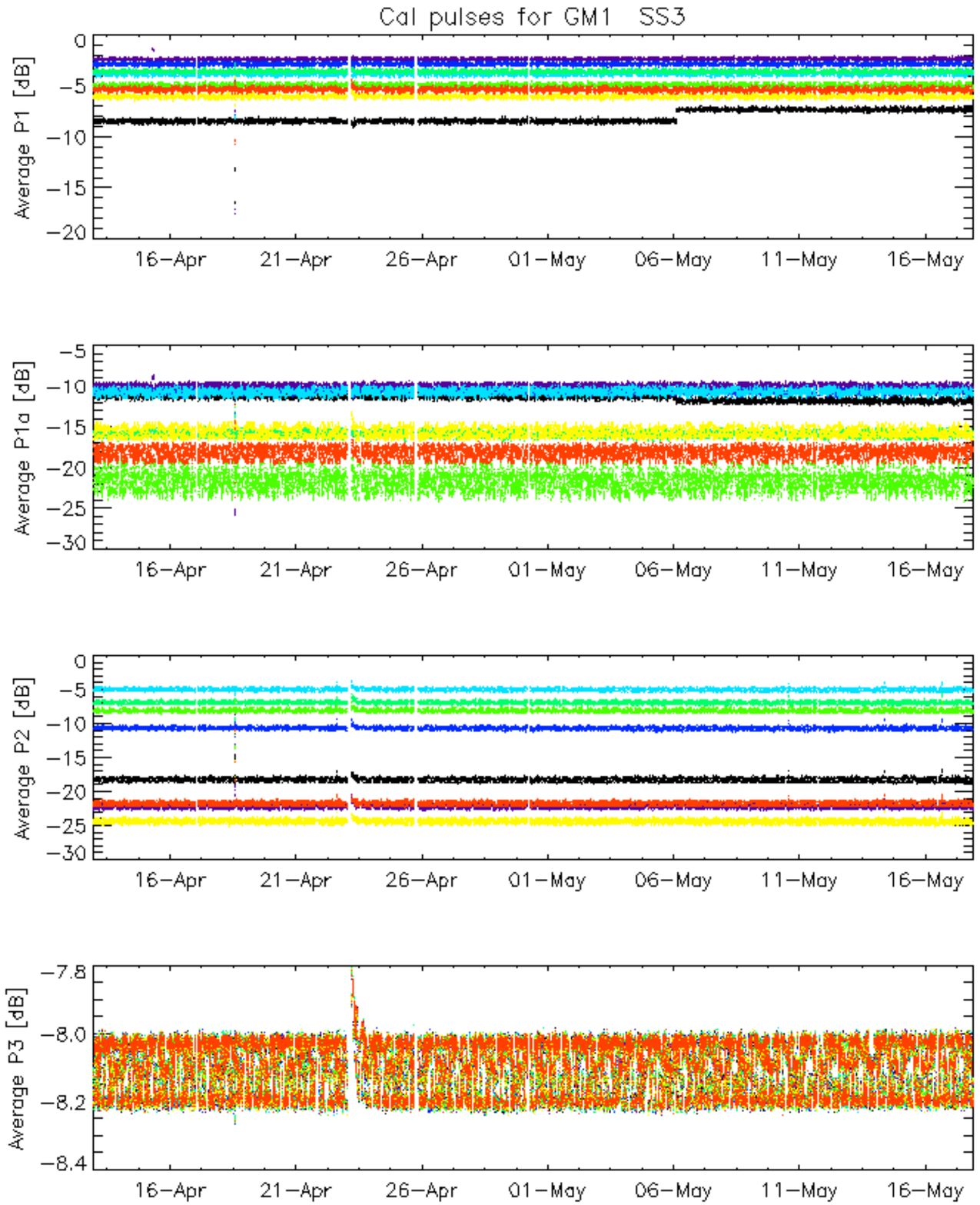
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

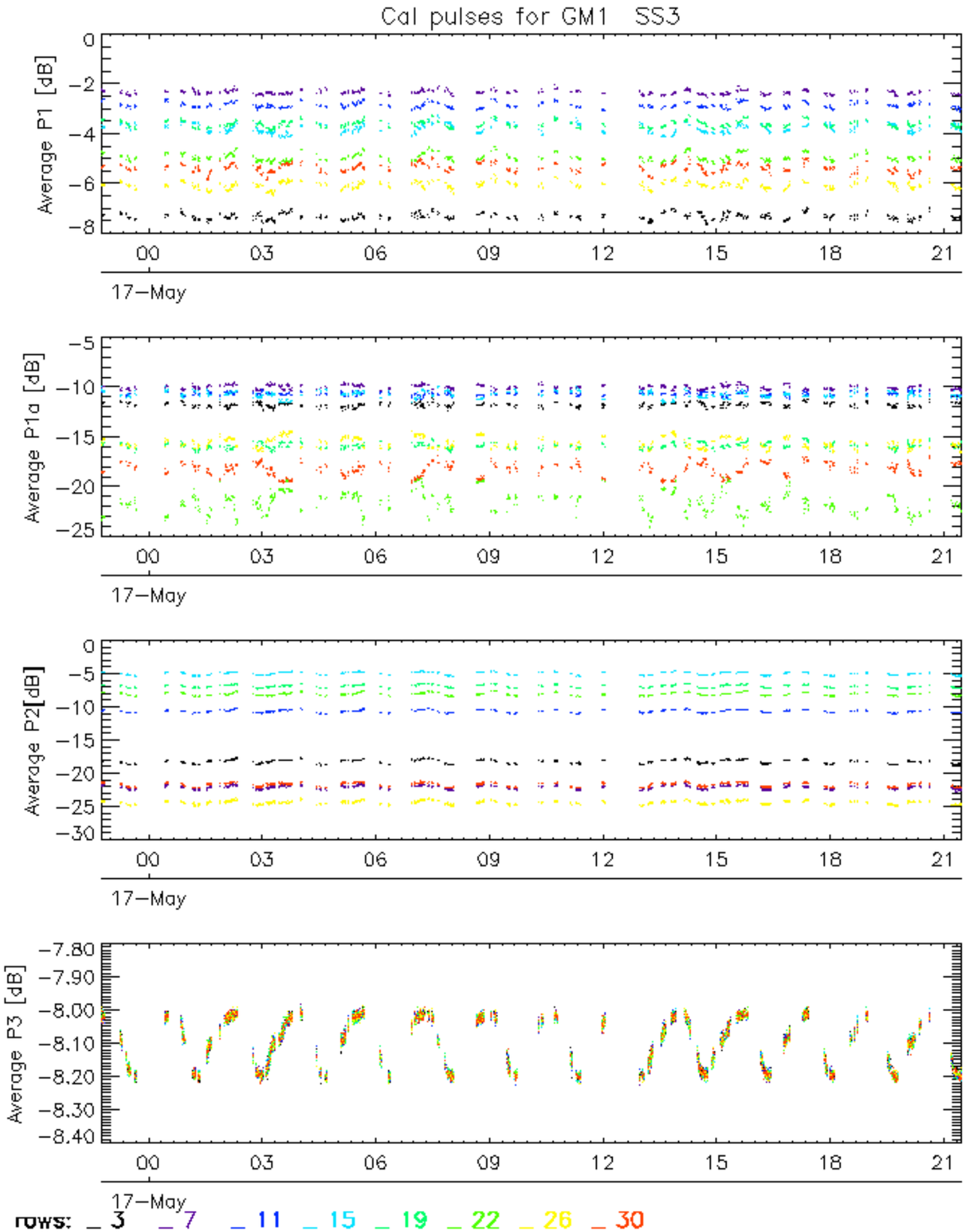
7.6 - Doppler evolution versus ANX for GM1

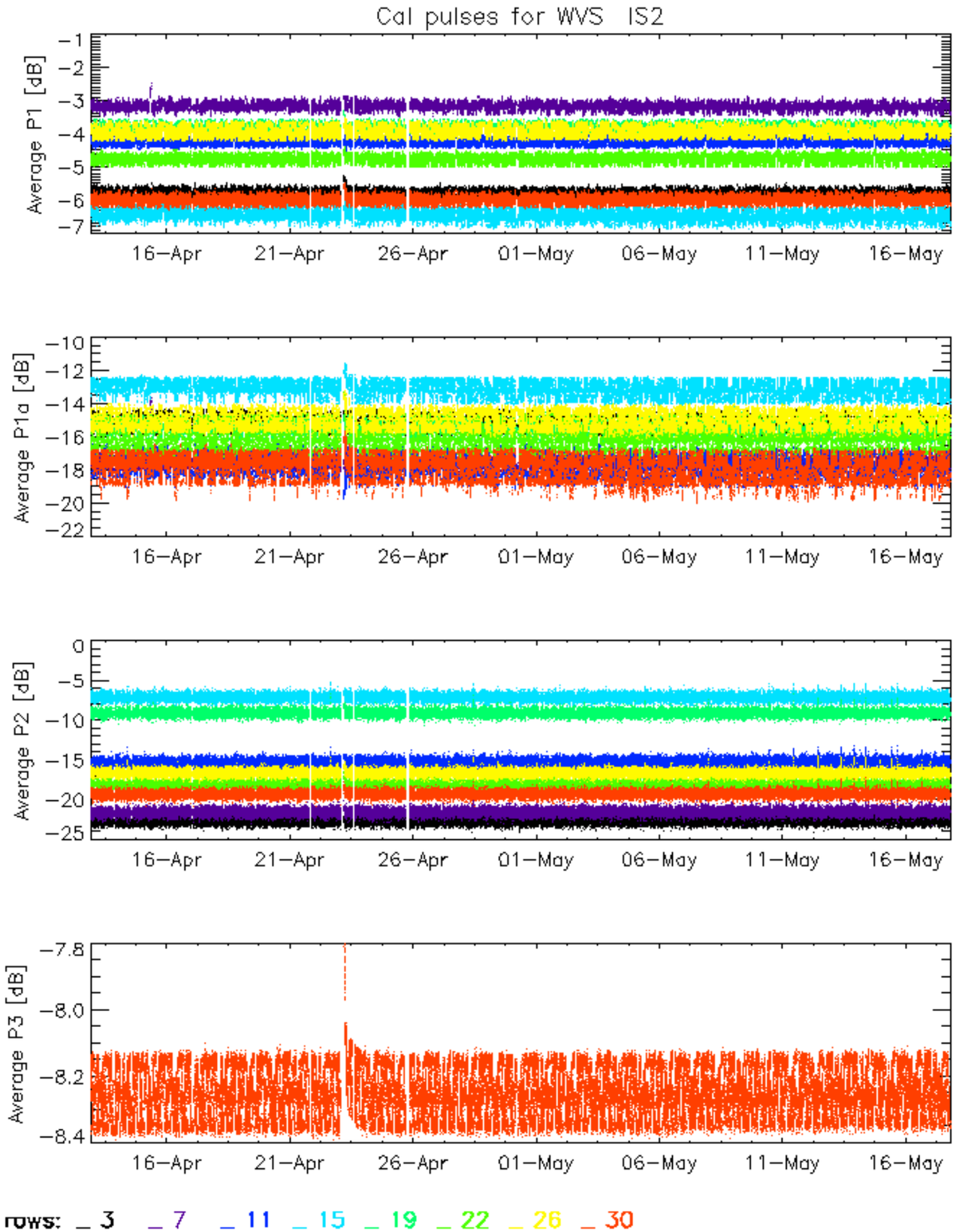
Evolution Doppler error versus ANX
☒

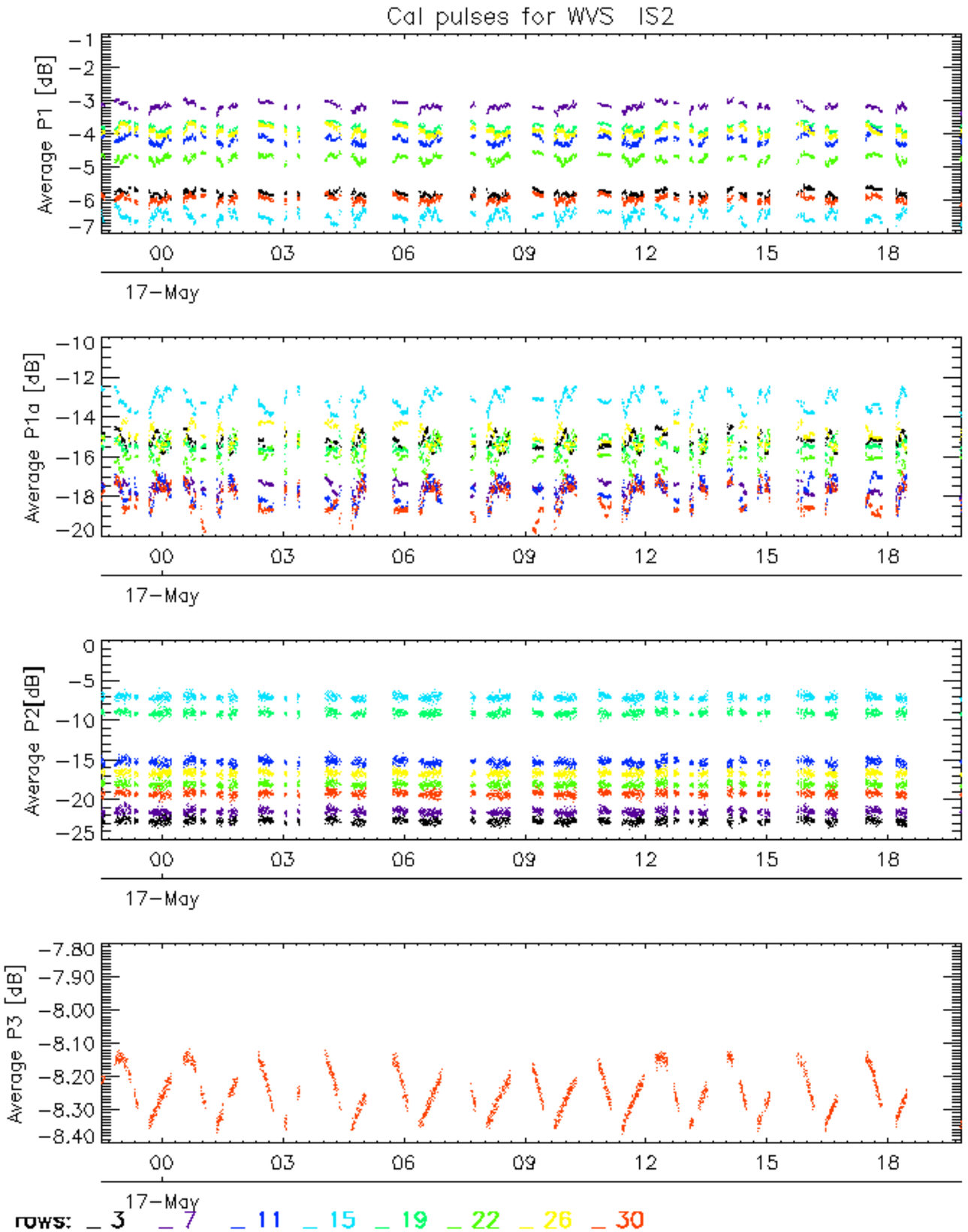

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
00
03
06
09
12
15
18
21
17−May
Average P1a [dB]
−5
−10
−15
−20
−25
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
Phase P1a [deg]
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
00
03
06
09
12
15
18
17−May
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
Phase P1a [deg]
rows: 3 7 11 15 19 22 26 30


Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May
16−May
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30

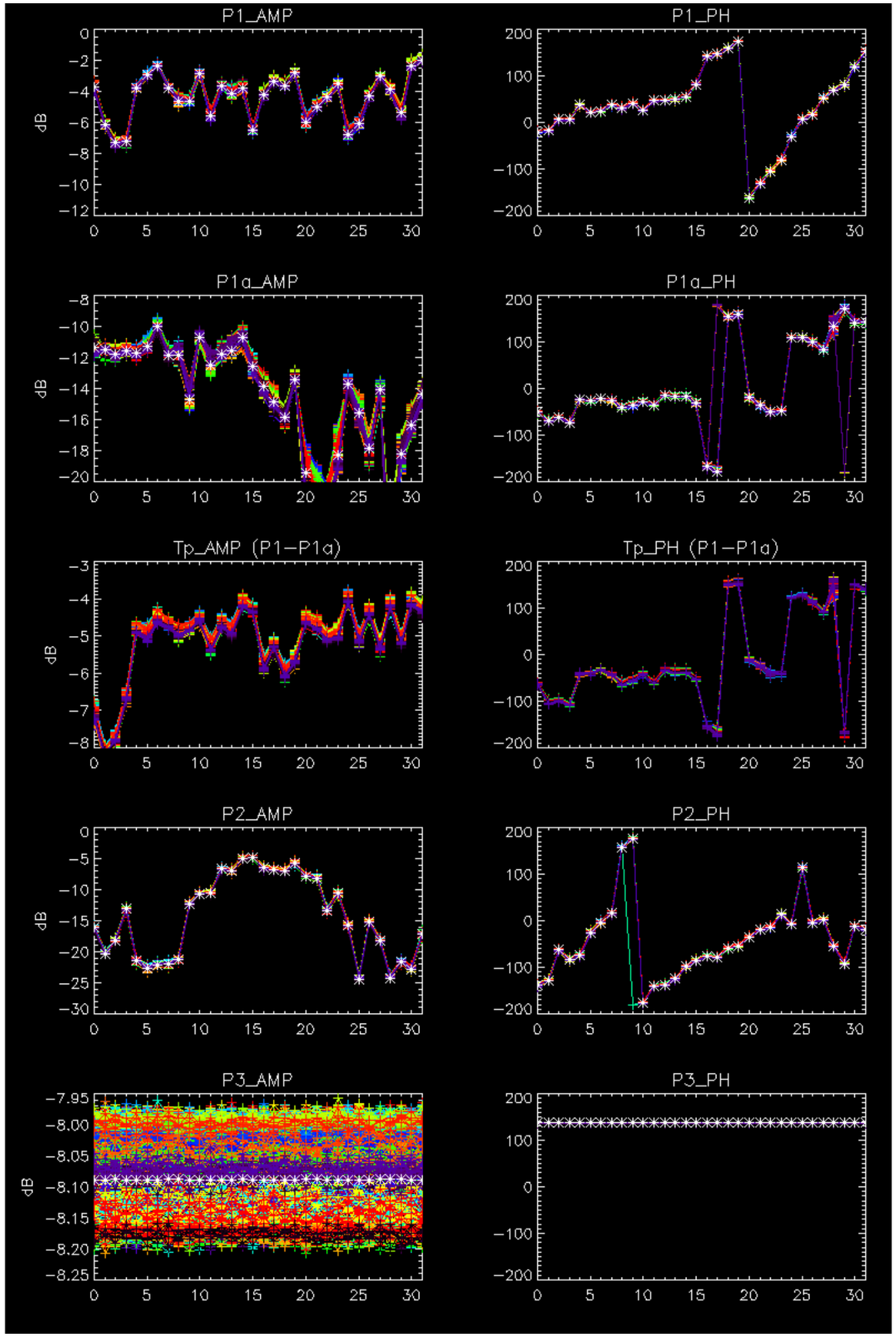

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
00
03
06
09
12
15
18
21
17−May
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2[dB]
−30
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
rows: 3 7 11 15 19 22 26 30

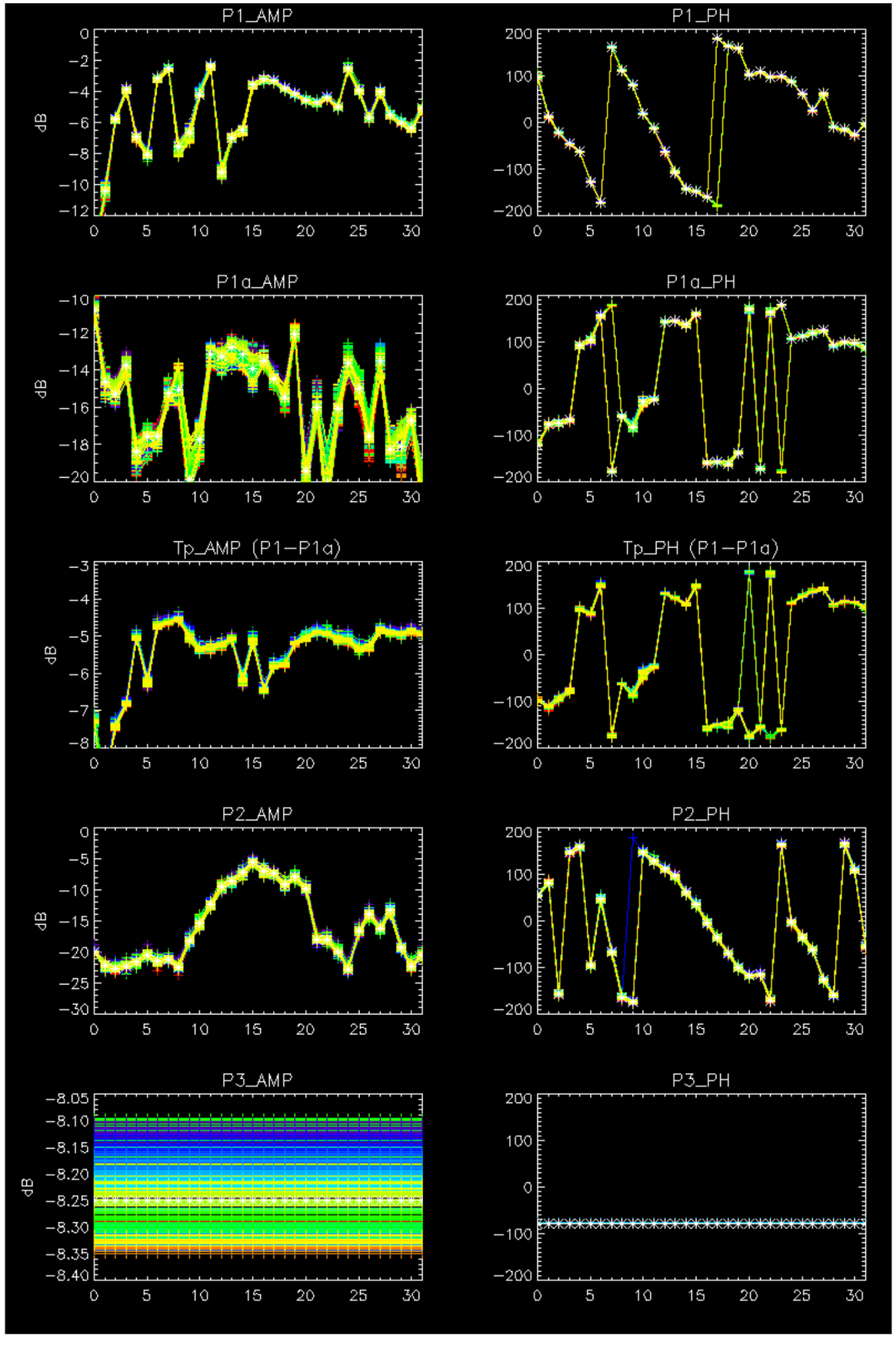

Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May
16−May
Average P1a [dB]
−10
−12
−14
−16
−18
−20
−22
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
00
03
06
09
12
15
18
17−May
Average P1a [dB]
−10
−12
−14
−16
−18
−20
00
03
06
09
12
15
18
17−May
Average P2[dB]
0
−5
−10
−15
−20
−25
00
03
06
09
12
15
18
17−May
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
00
03
06
09
12
15
18
17−May
rows: 3 7 11 15 19 22 26 30

No anomalies observed on available browse products

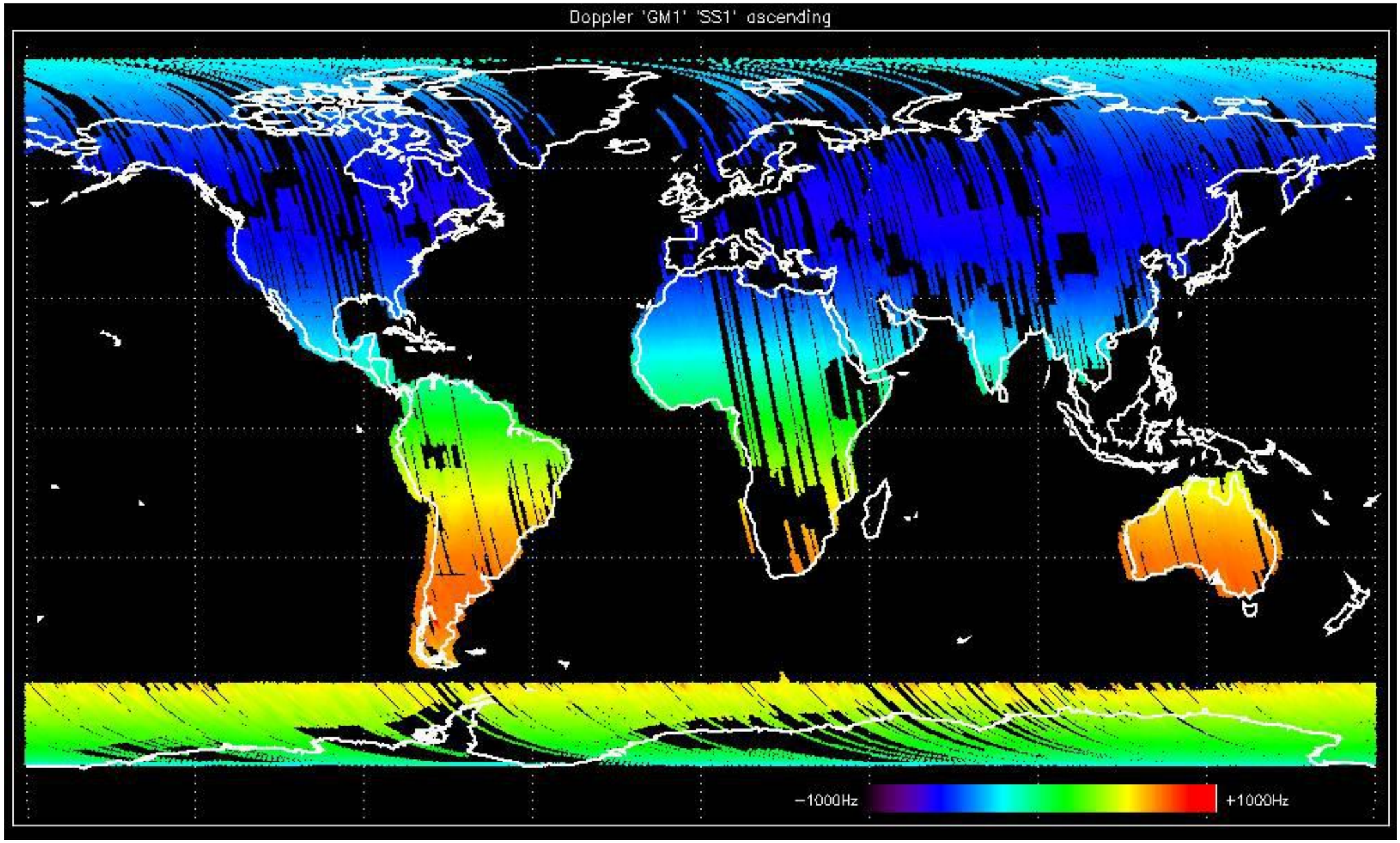
No anomalies observed.

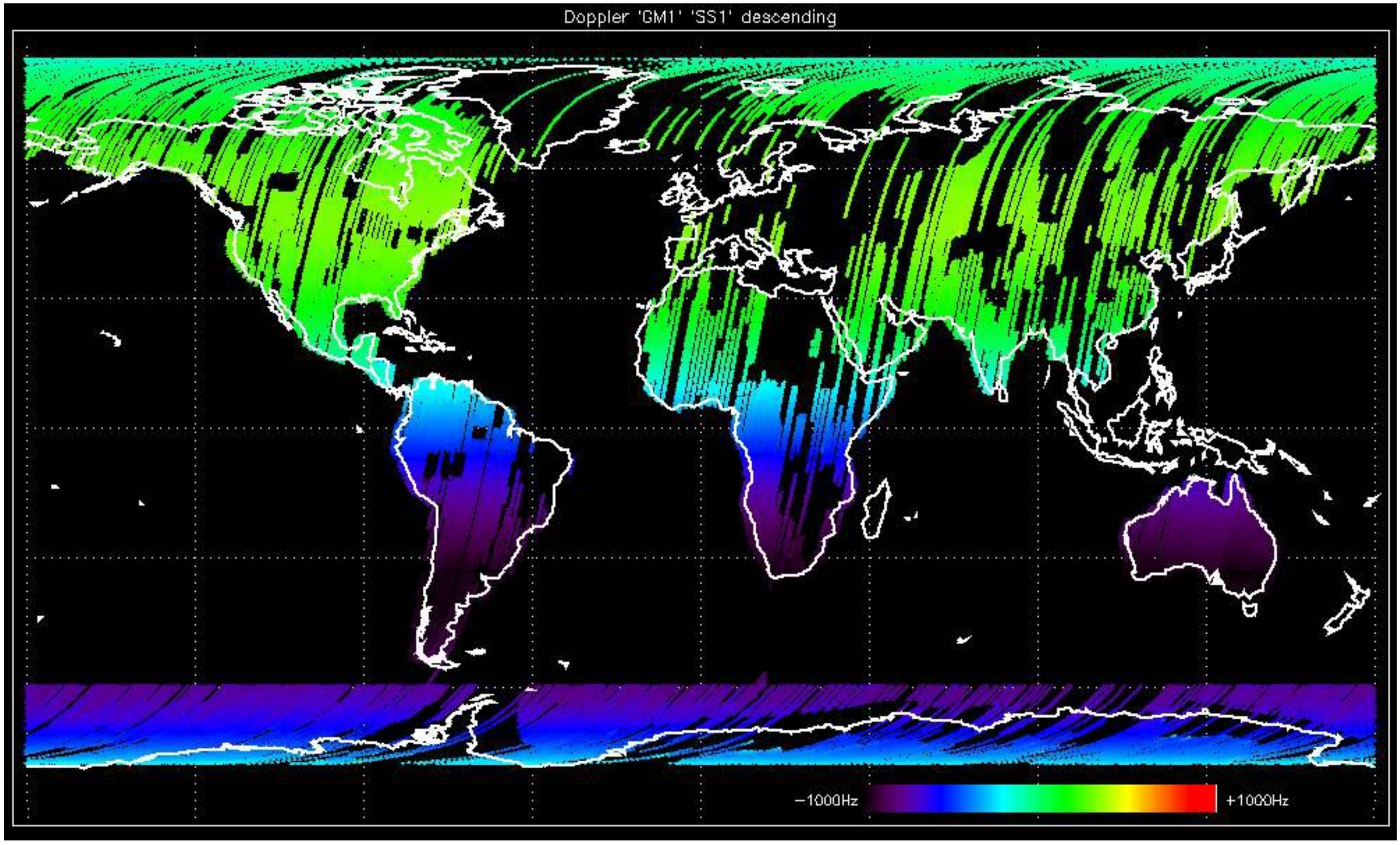

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

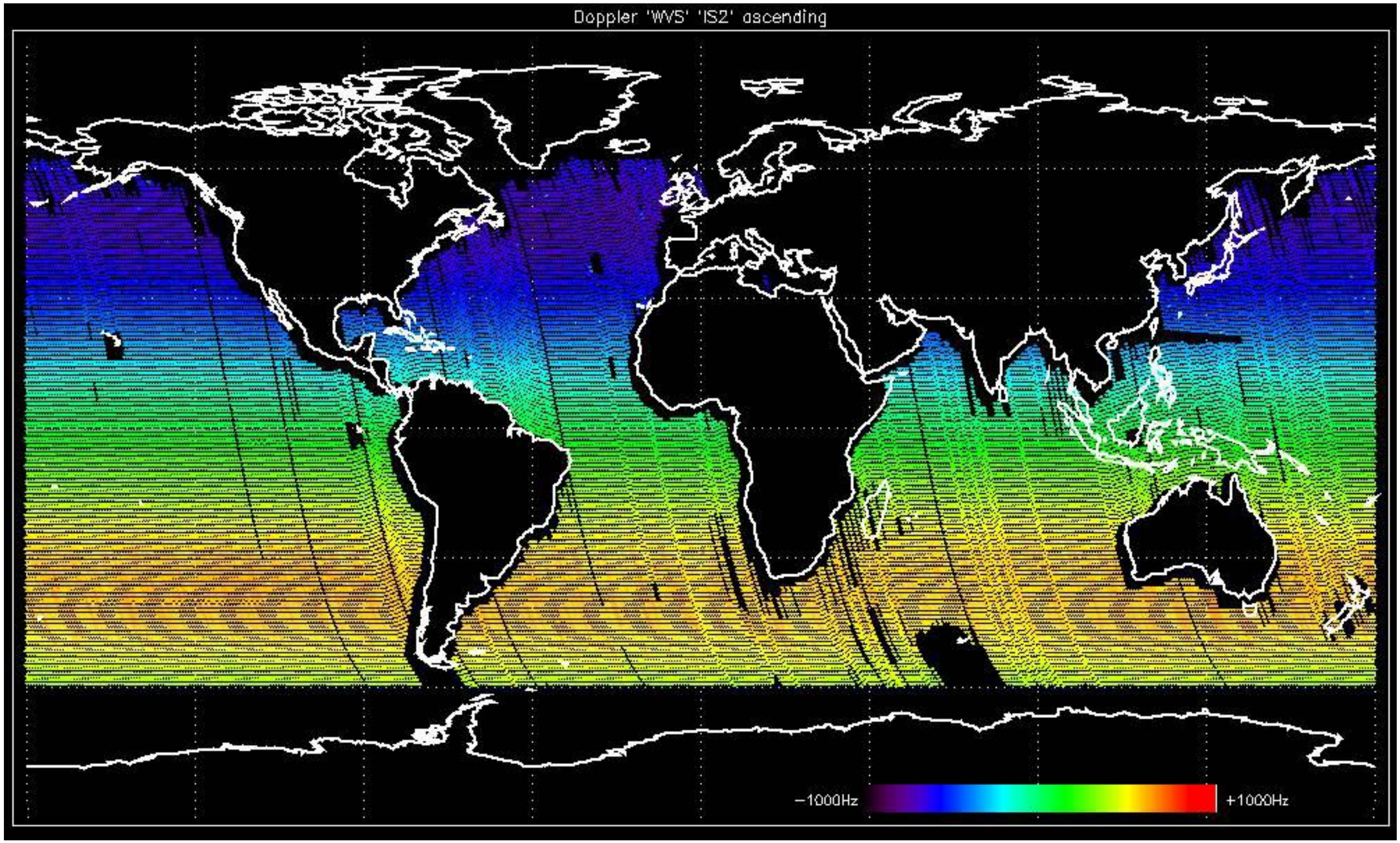

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

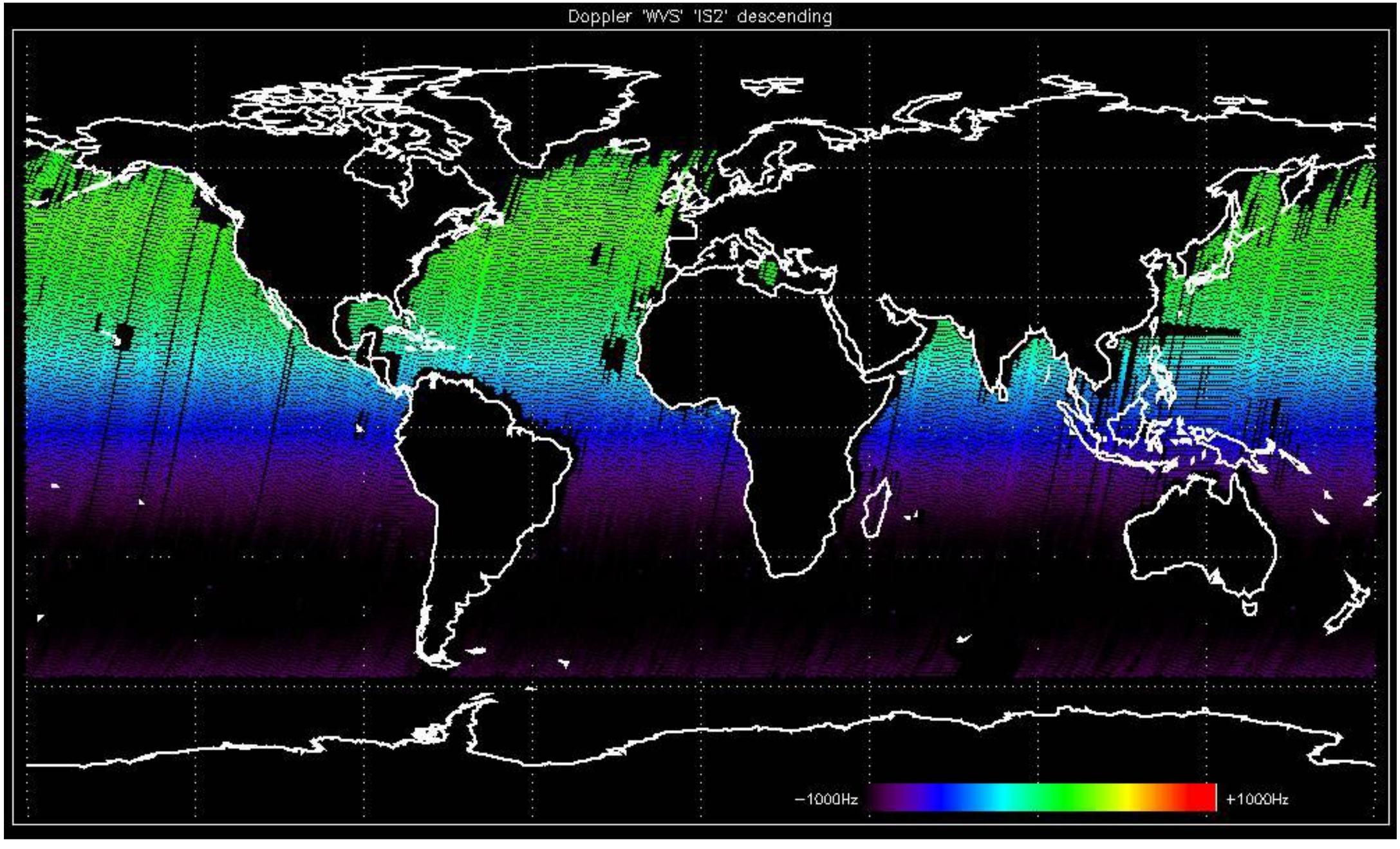
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

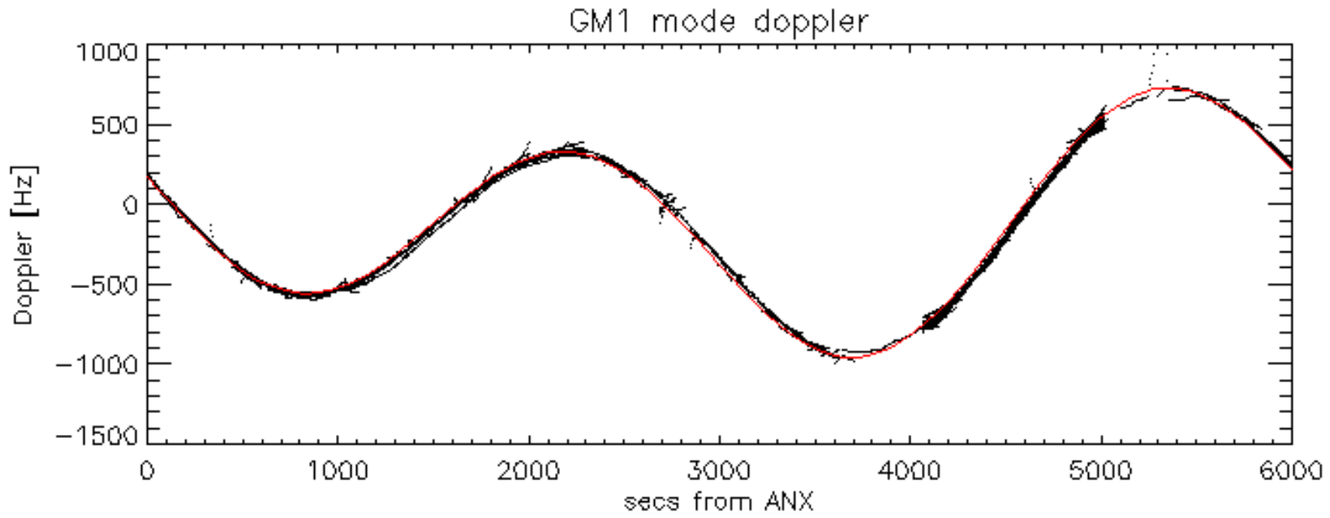
Preliminary report.The data is not yet controled

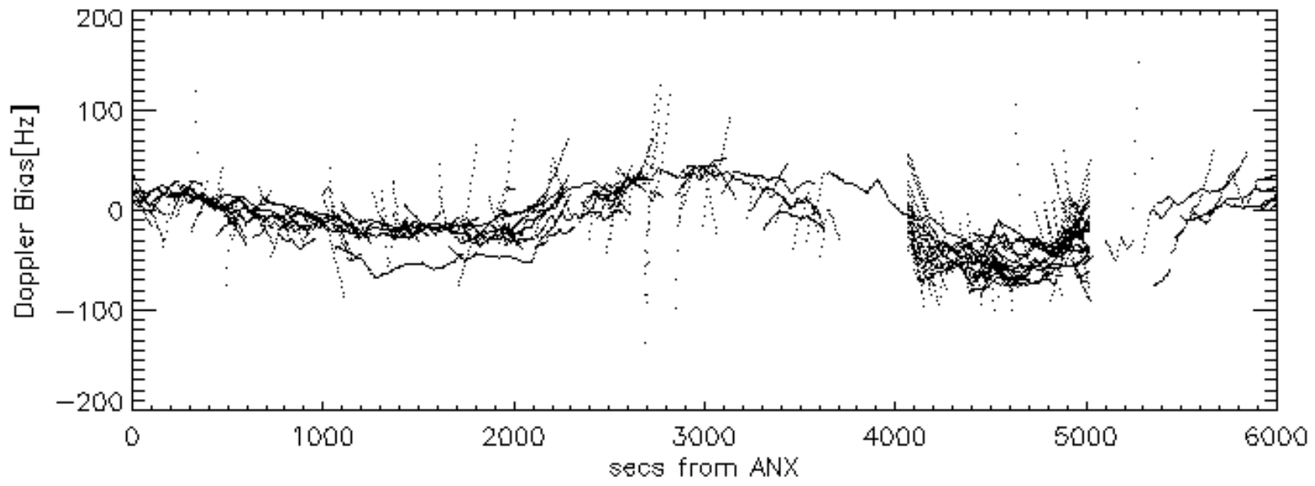

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

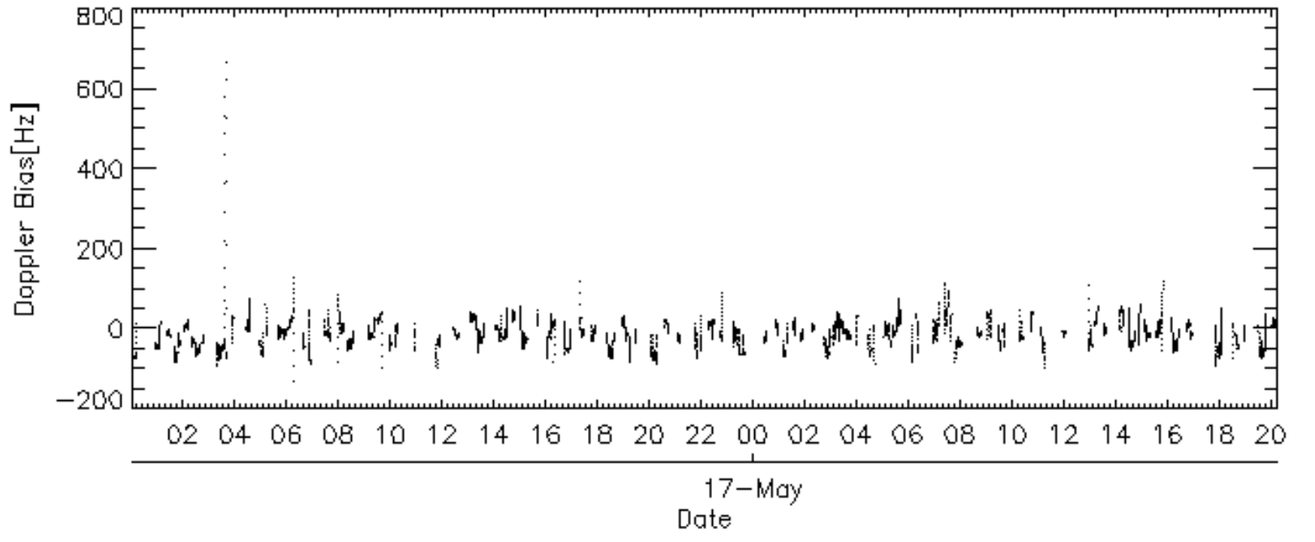

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

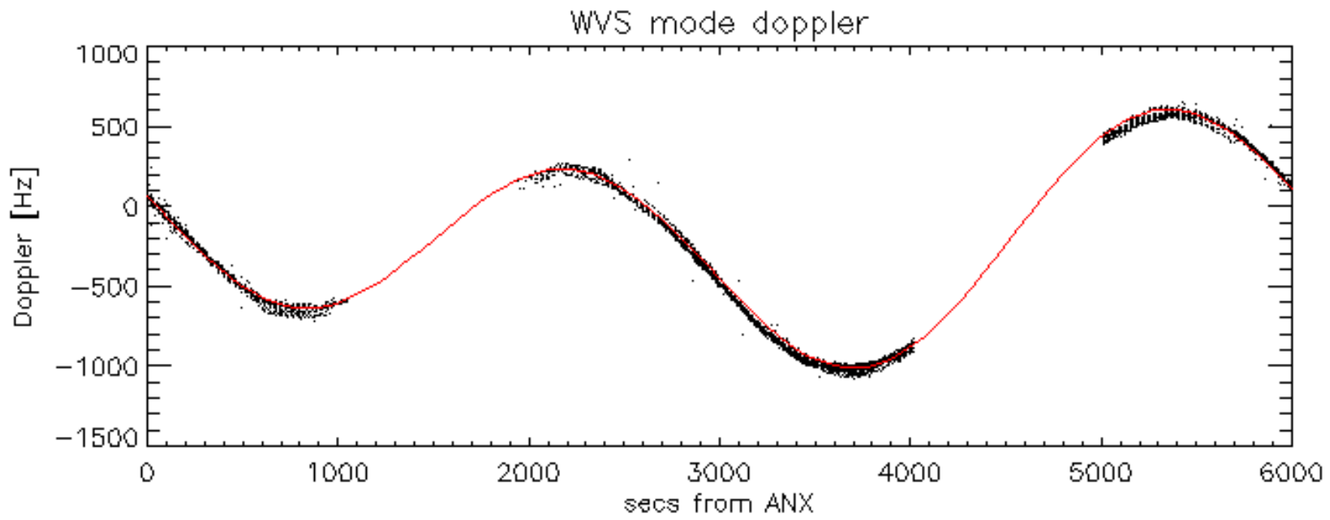

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

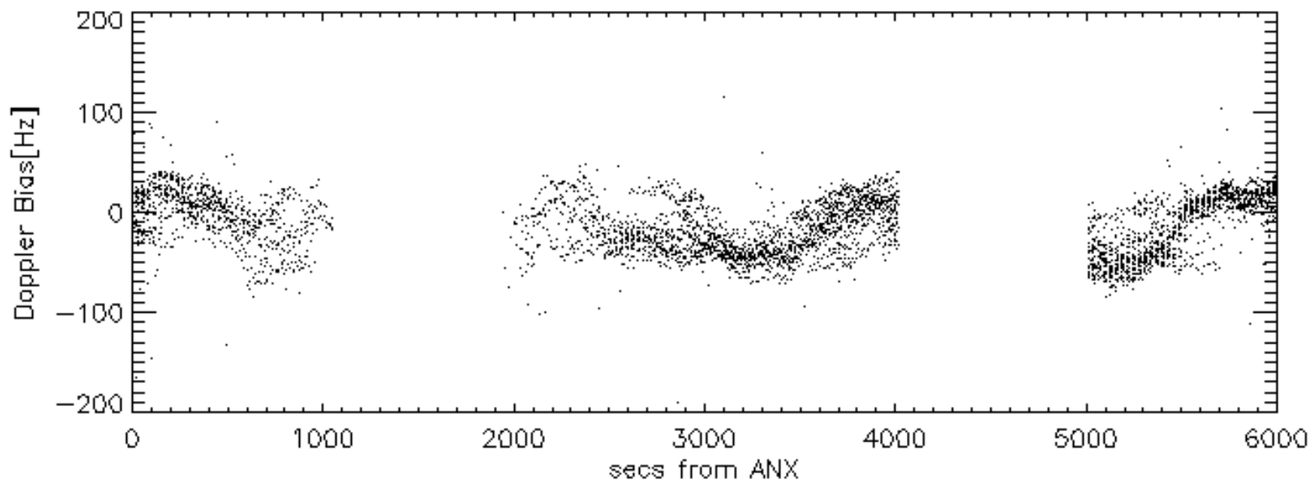

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

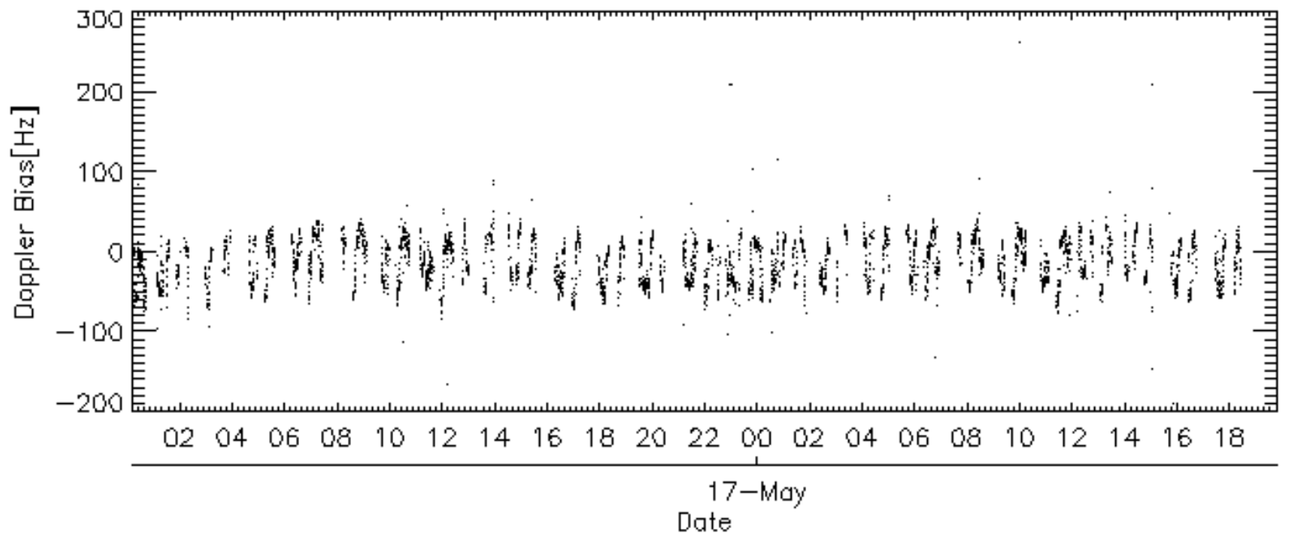

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

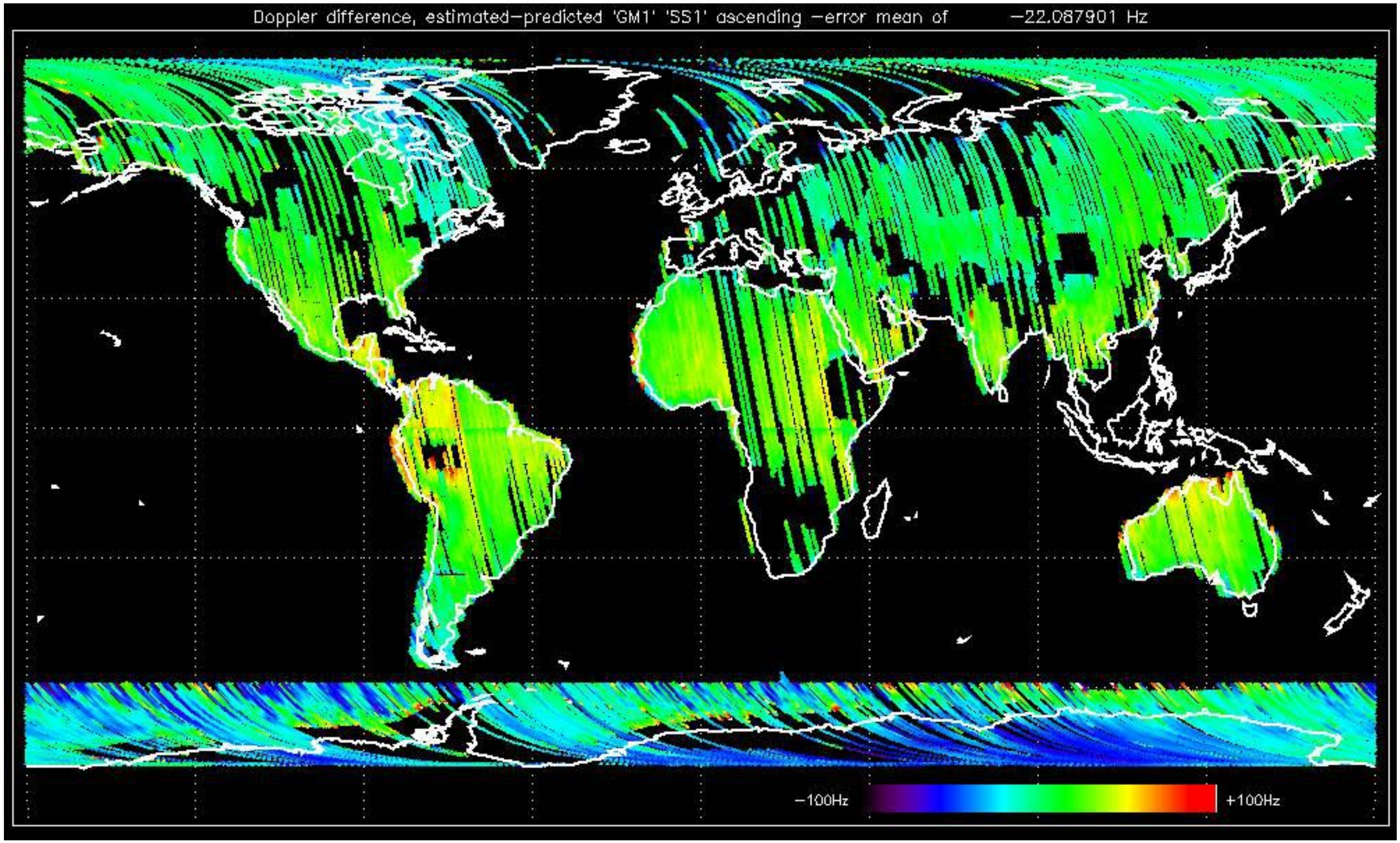

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

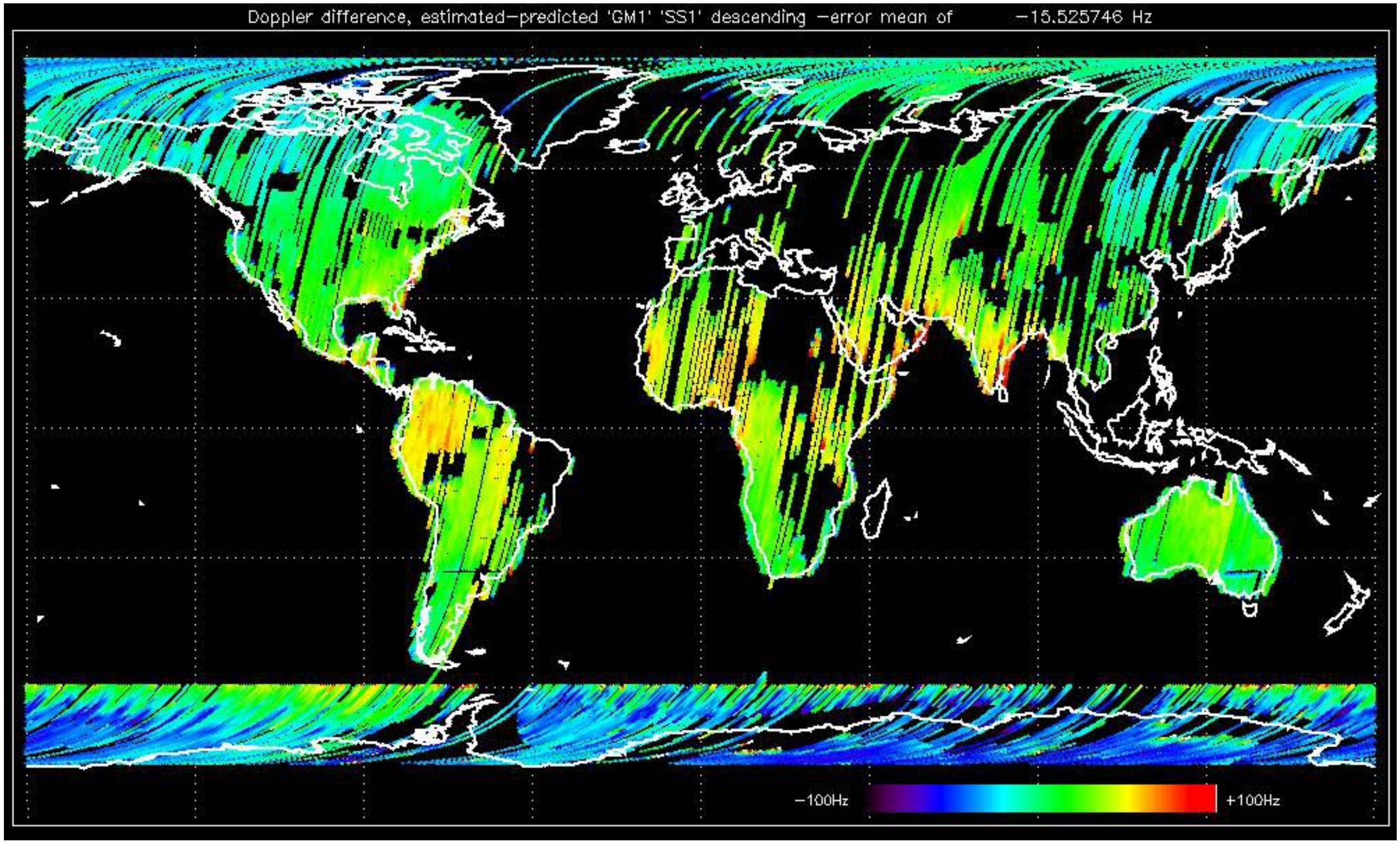

Doppler Bias[Hz]
800
600
400
200
0
−200
02 04 06 08 10 12 14 16 18 20 22 00 02 04 06 08 10 12 14 16 18 20
17−May
Date

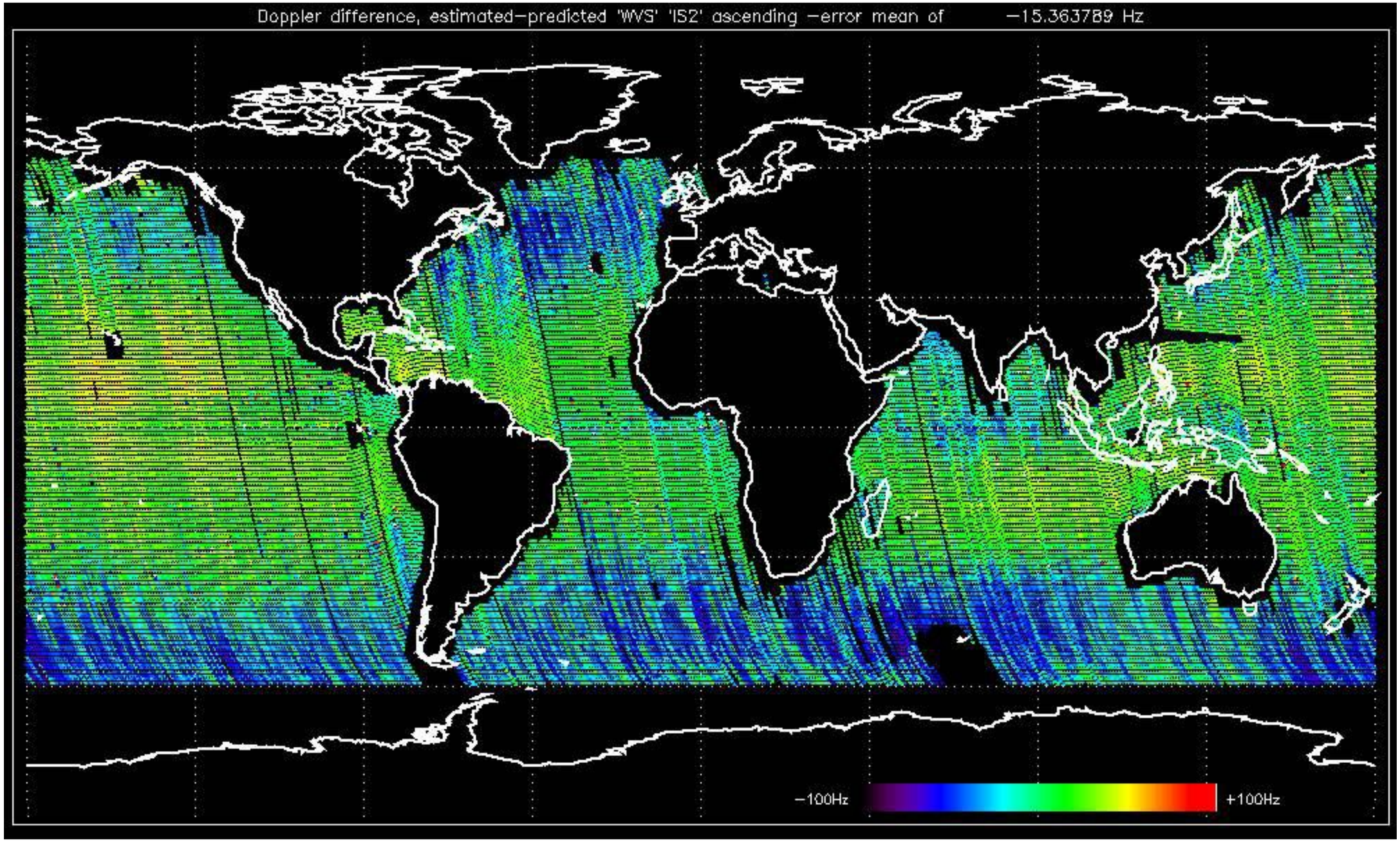

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

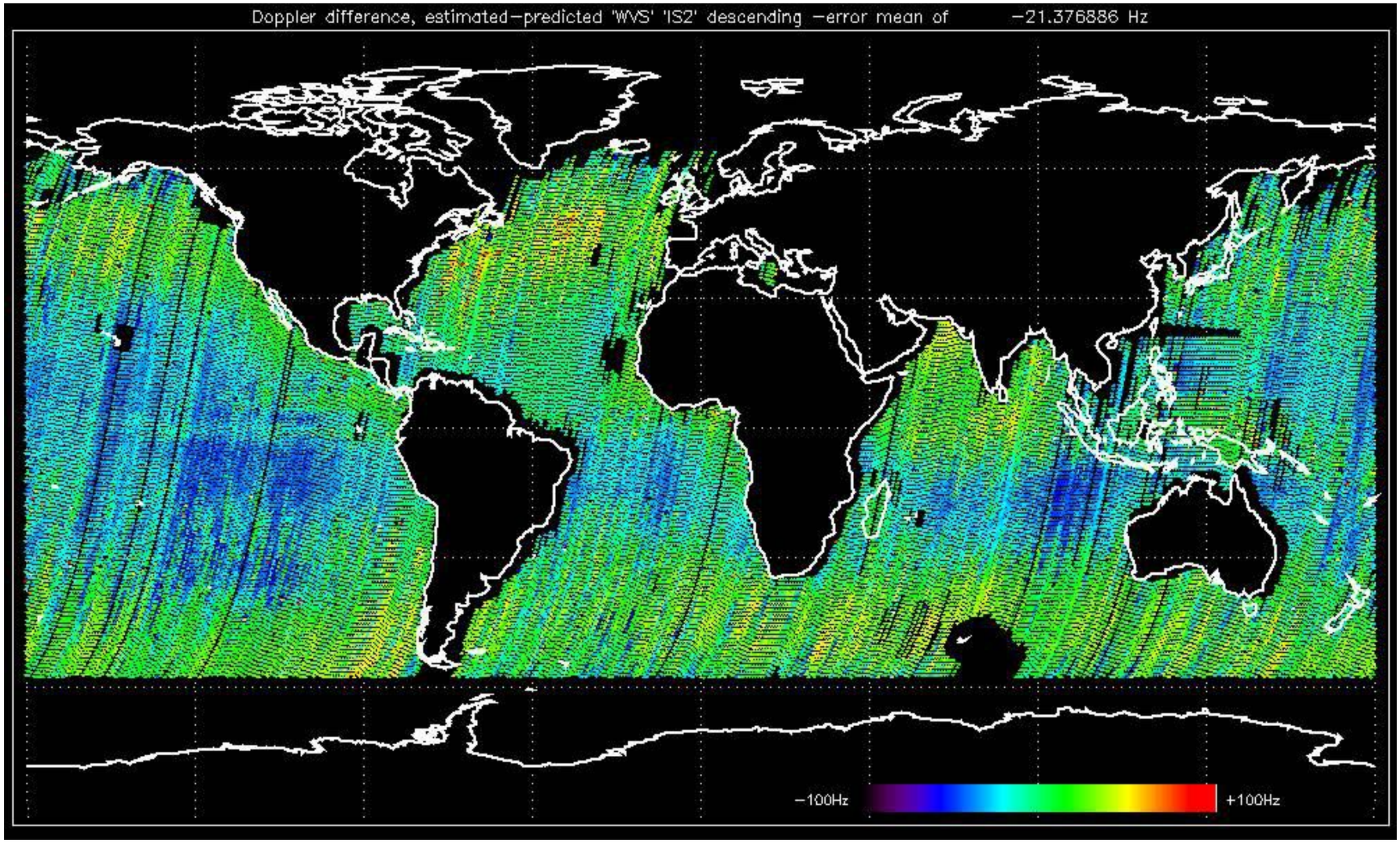

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −22.087901 Hz
−100Hz
+100Hz

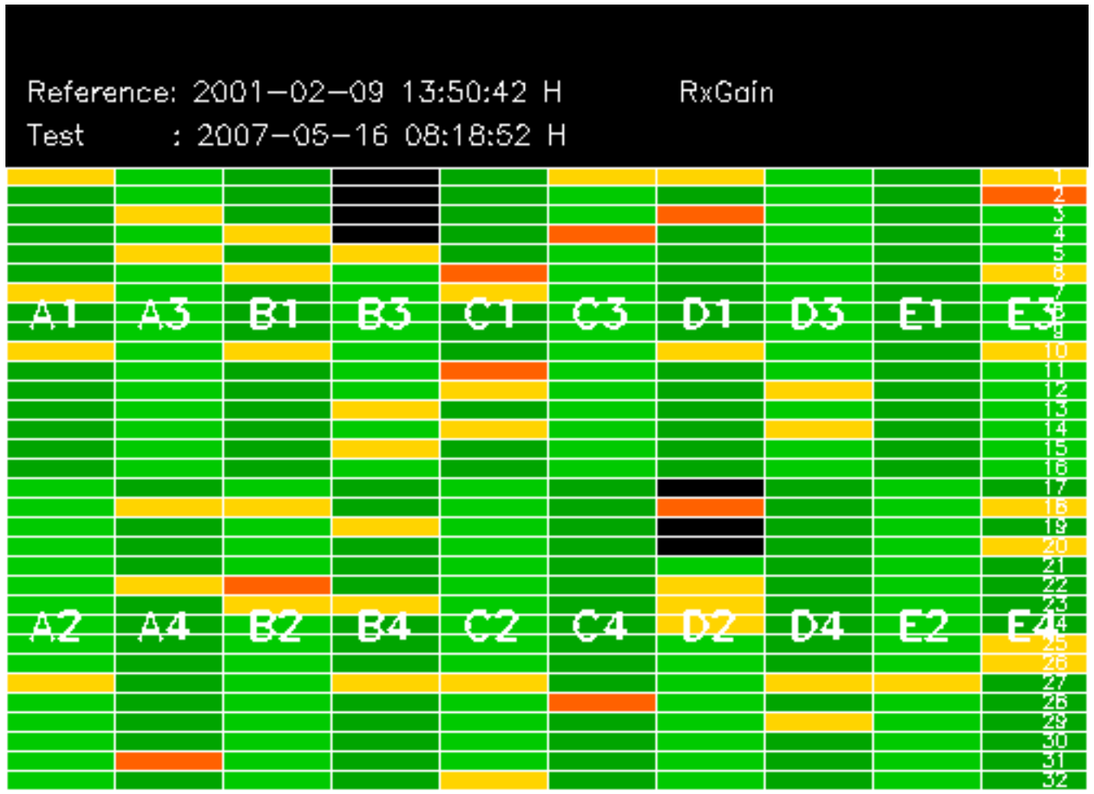

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -15.525746 Hz
-100Hz
+100Hz

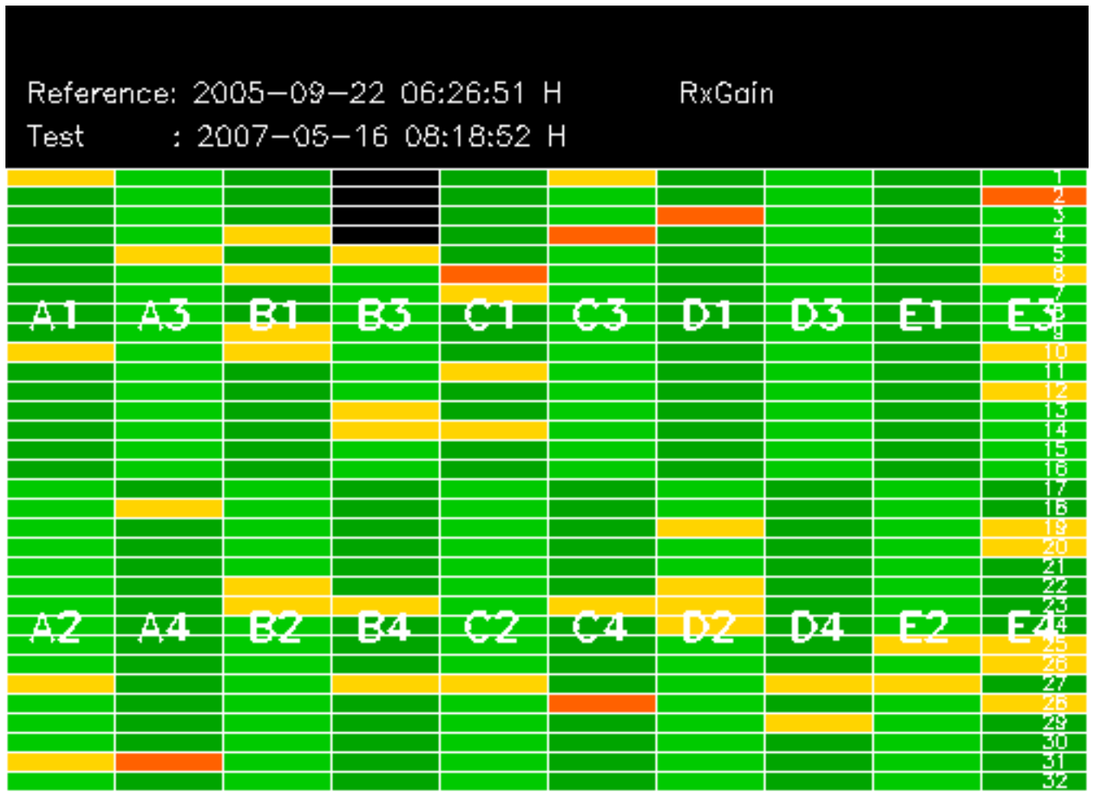

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −15.363789 Hz
−100Hz
+100Hz

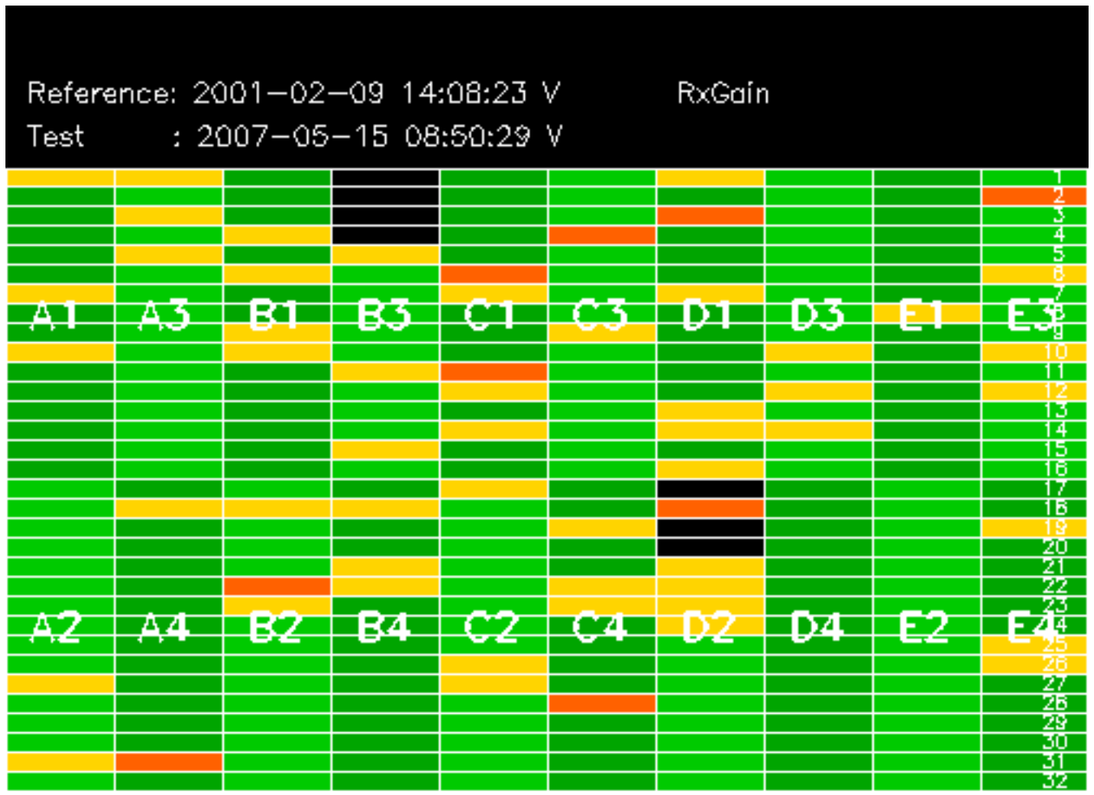

Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −21.376886 Hz
−100Hz
+100Hz

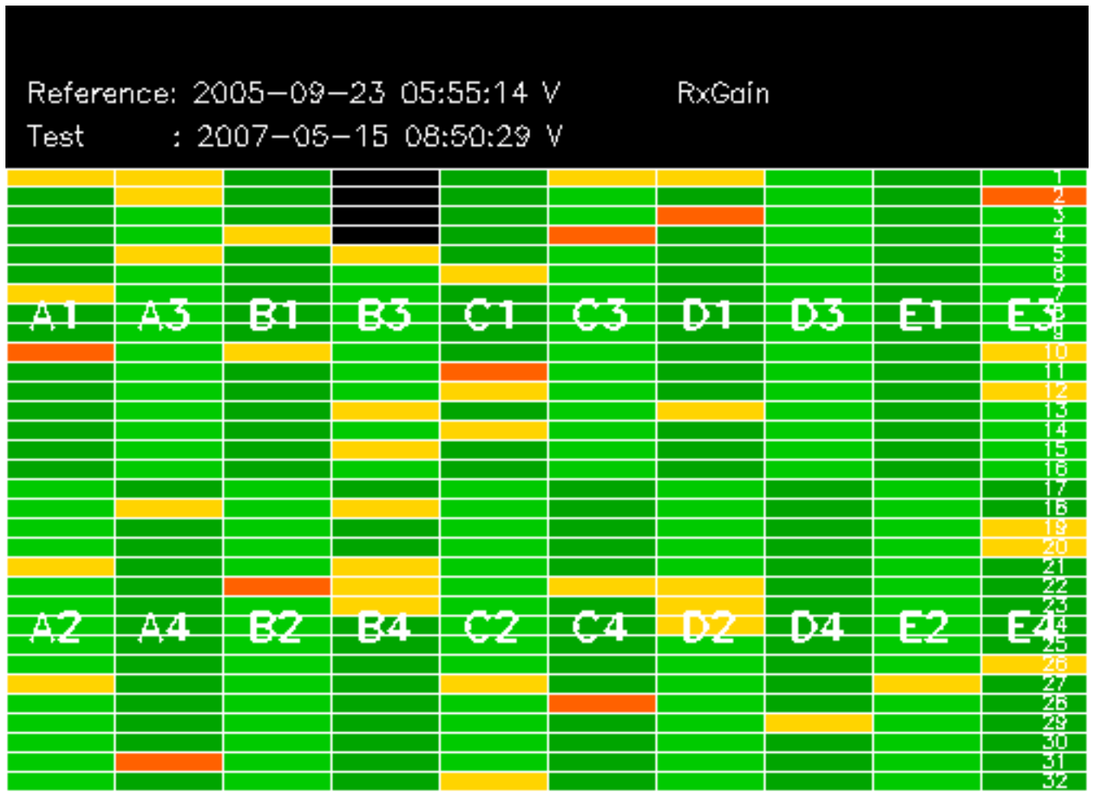
No anomalies observed on available MS products:

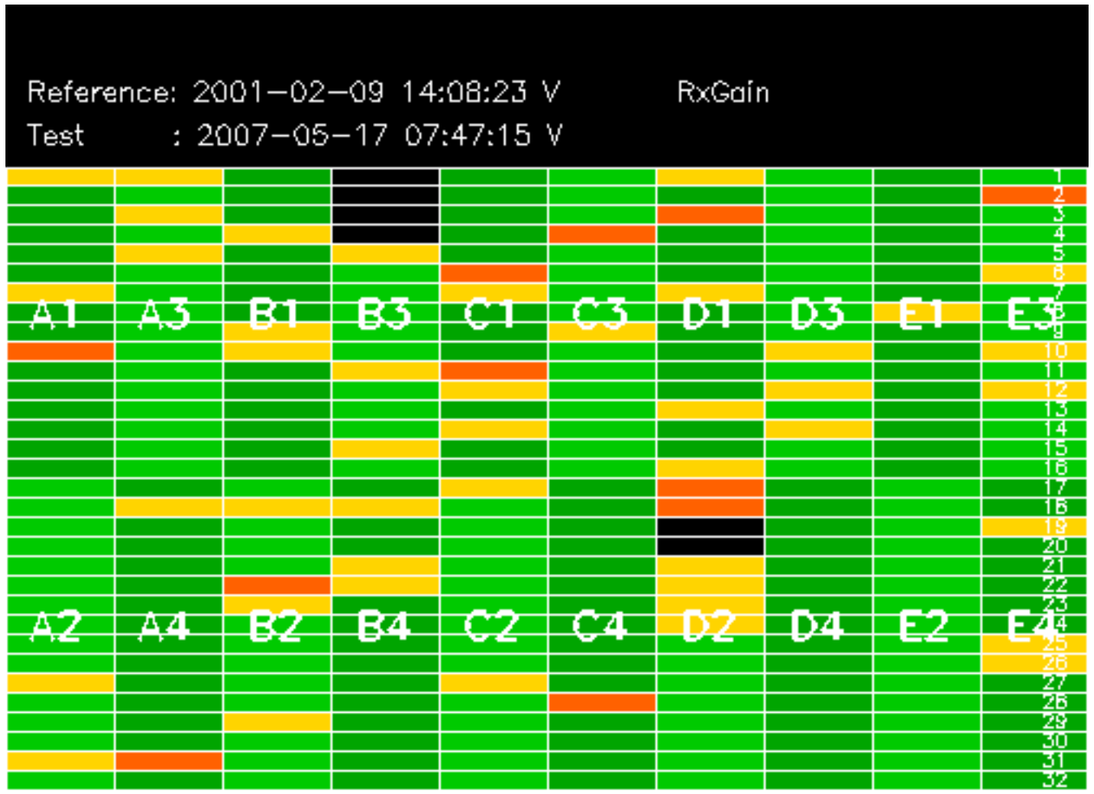
No anomalies observed.

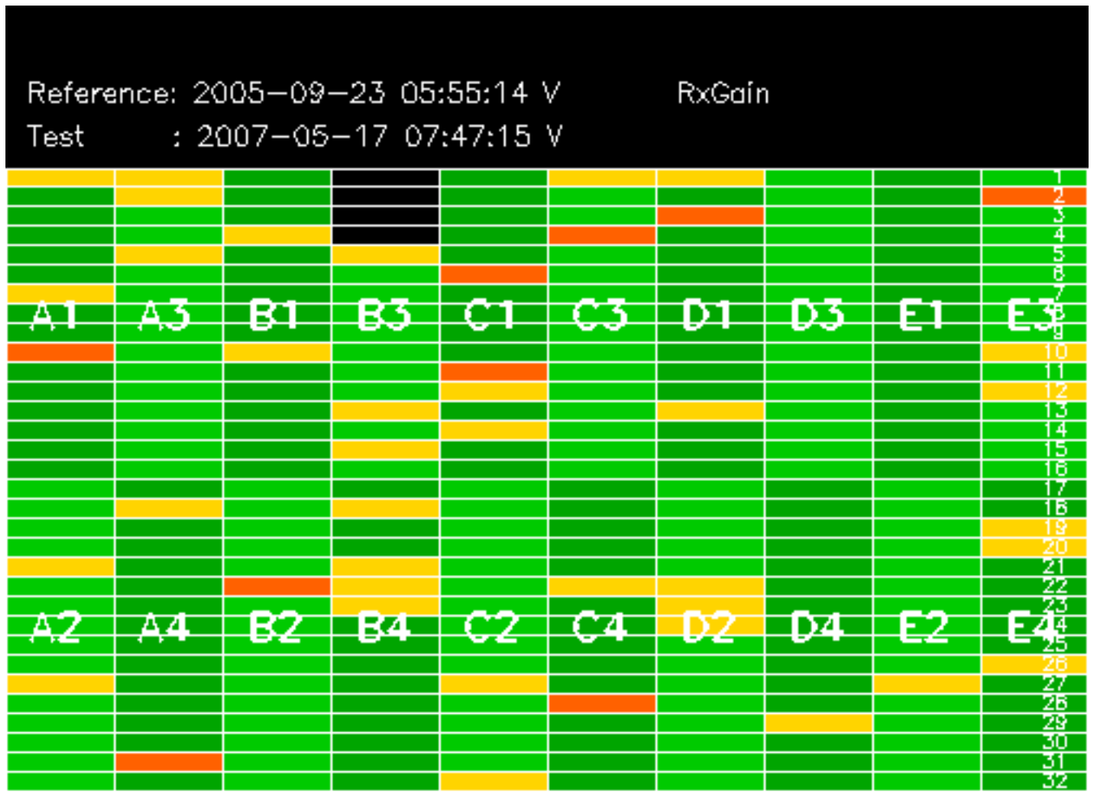

Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2007-05-16 08:18:52 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

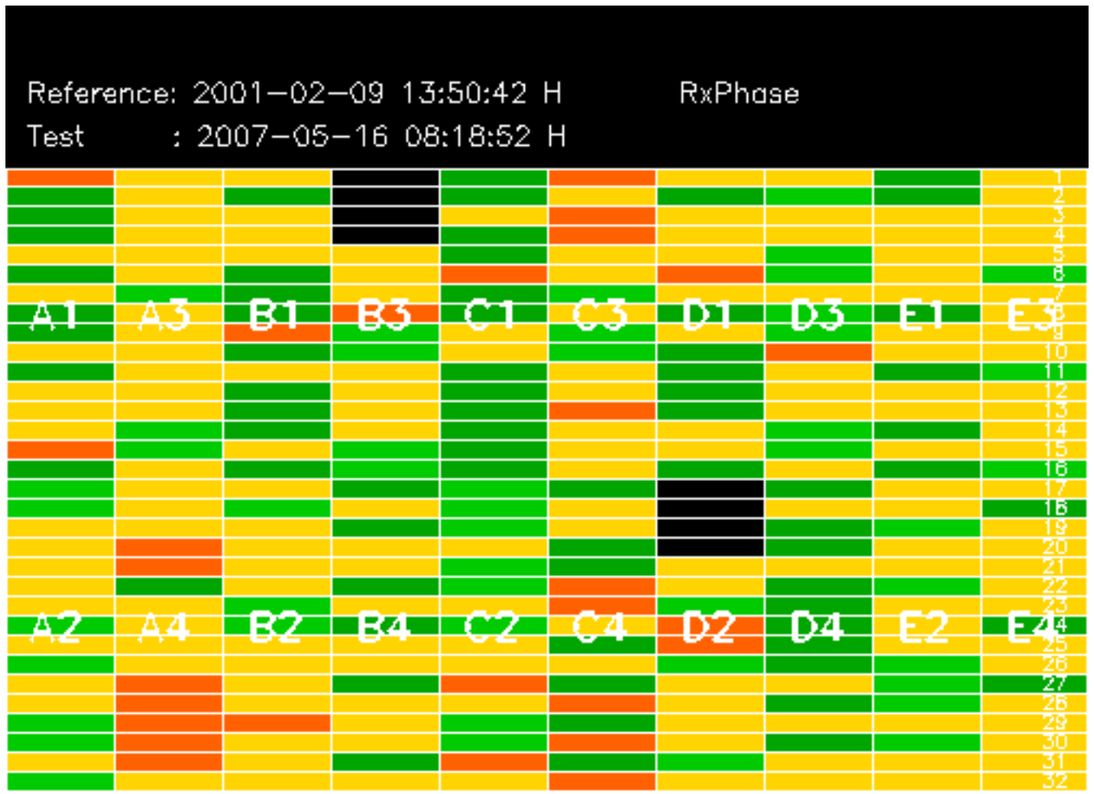

Reference: 2005-09-22 06:26:51 H
Test : 2007-05-16 08:18:52 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

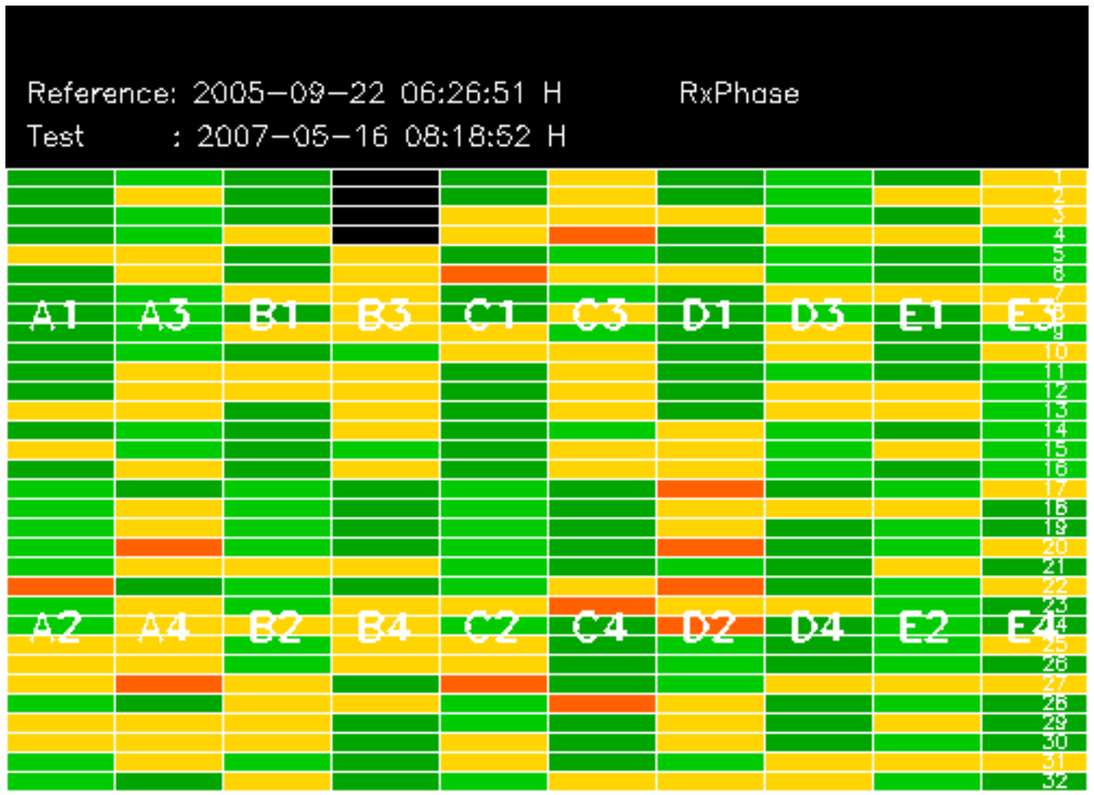

Reference: 2001-02-09 14:08:23 V
Test : 2007-05-15 08:50:29 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-05-15 08:50:29 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

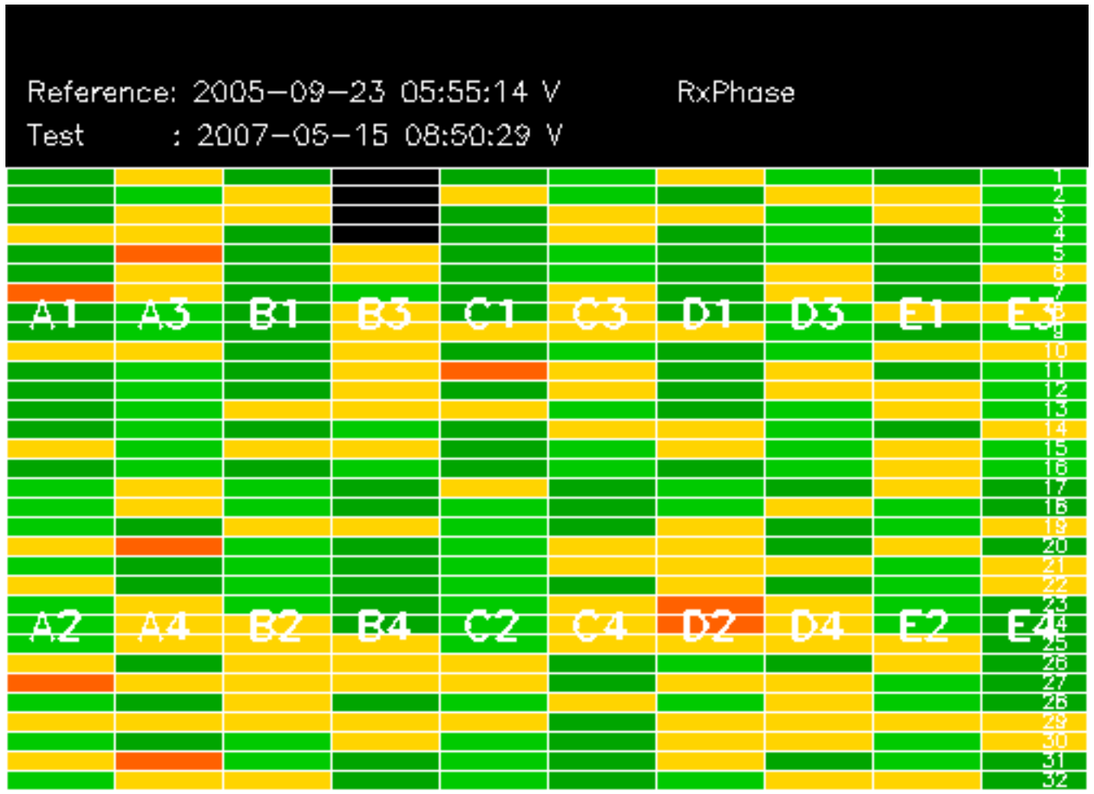

Reference: 2001-02-09 14:08:23 V
Test : 2007-05-17 07:47:15 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-05-17 07:47:15 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2007-05-16 08:18:52 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-05-16 08:18:52 H
RxPhase
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 : 2007-05-15 08:50:29 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-05-15 08:50:29 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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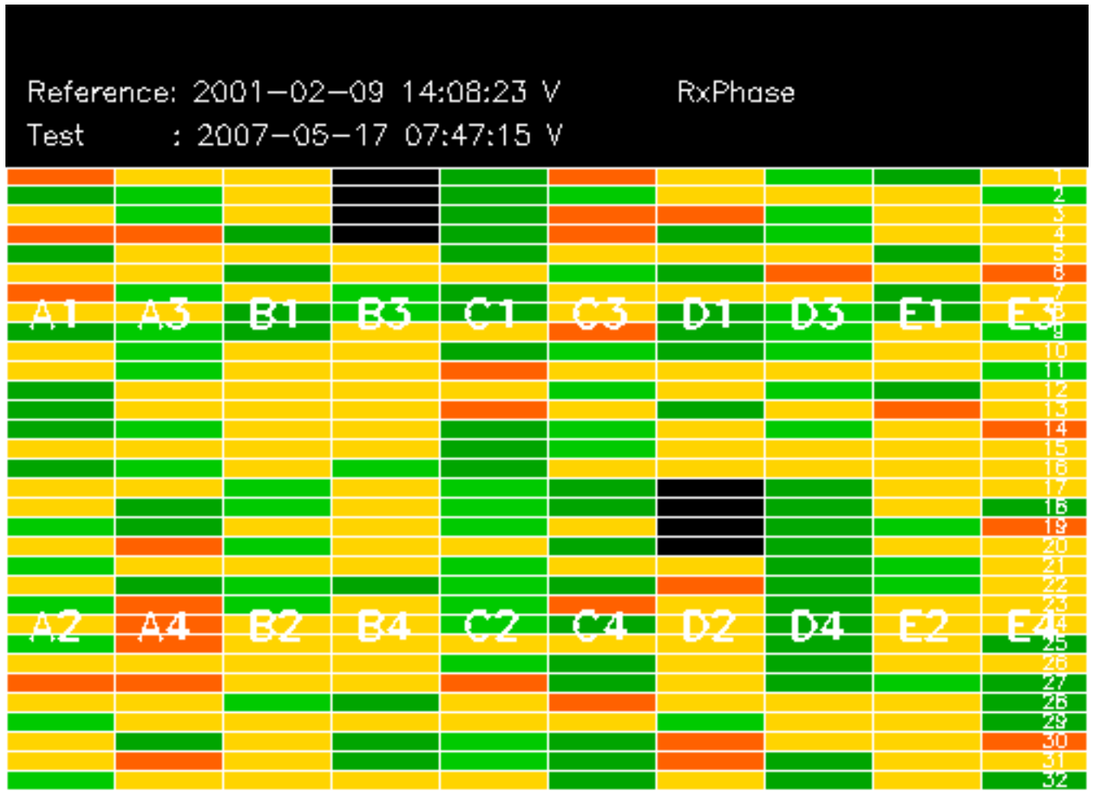
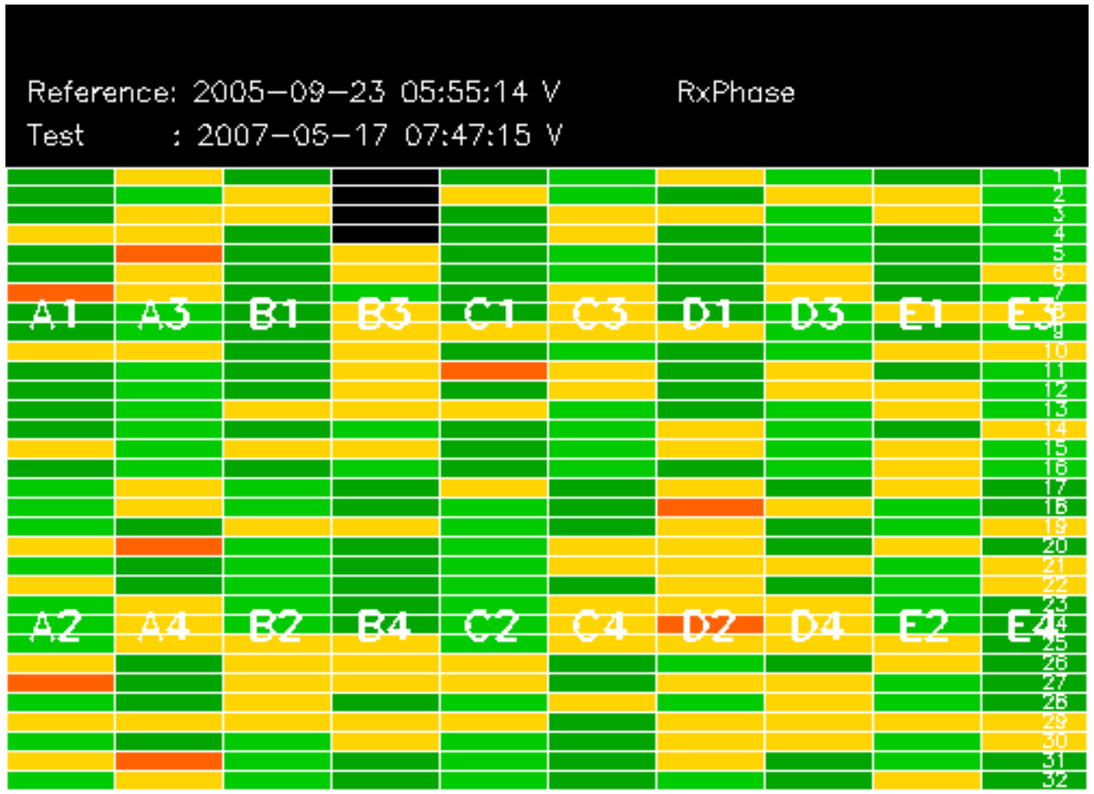

Reference: 2001-02-09 14:08:23 V
RxPhase
Test : 2007-05-17 07:47:15 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-05-17 07:47:15 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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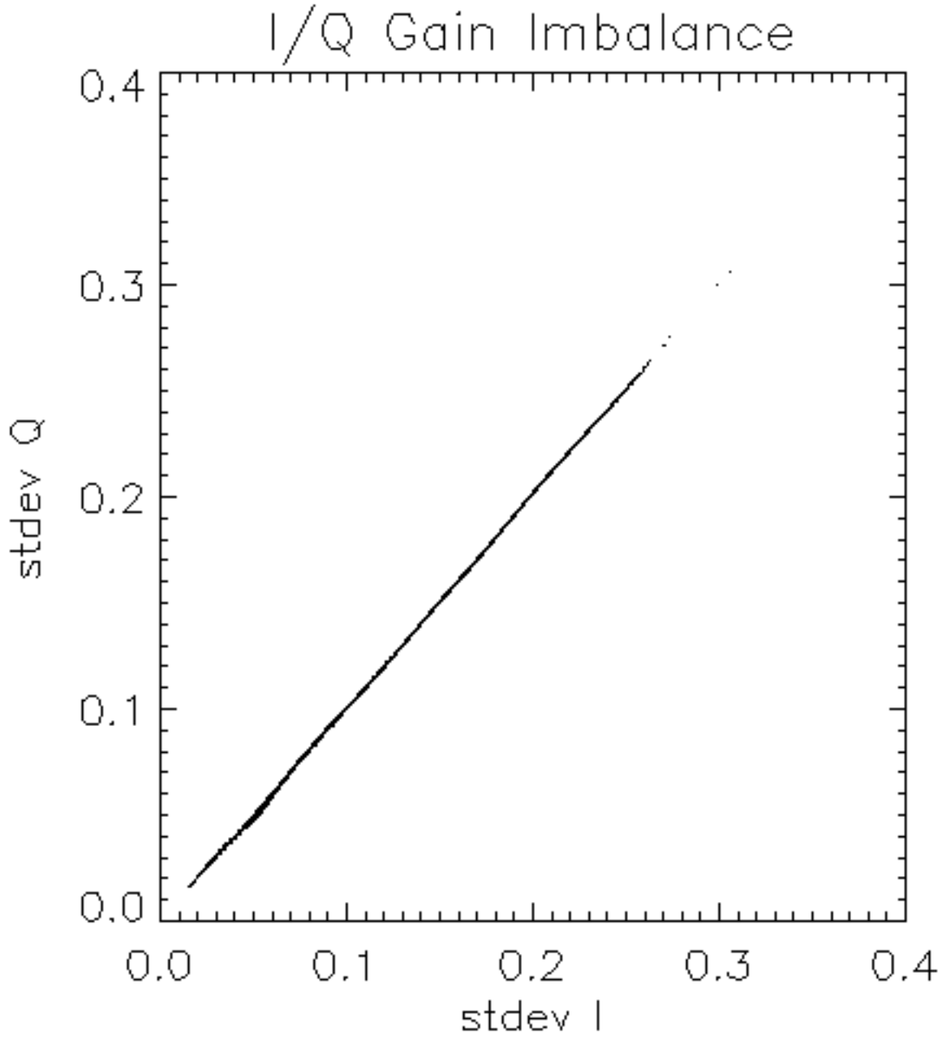
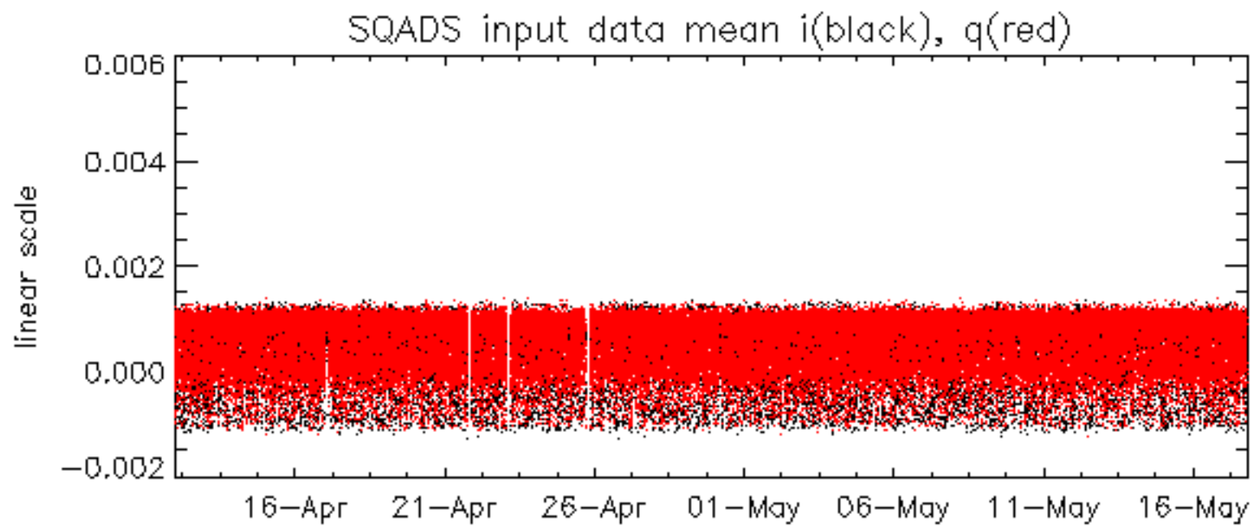
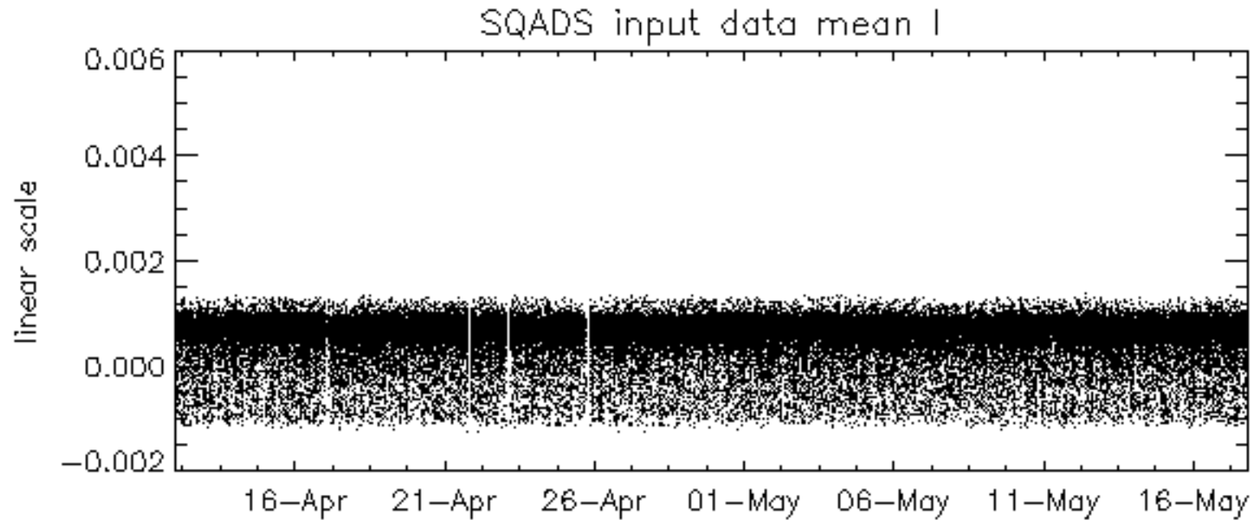
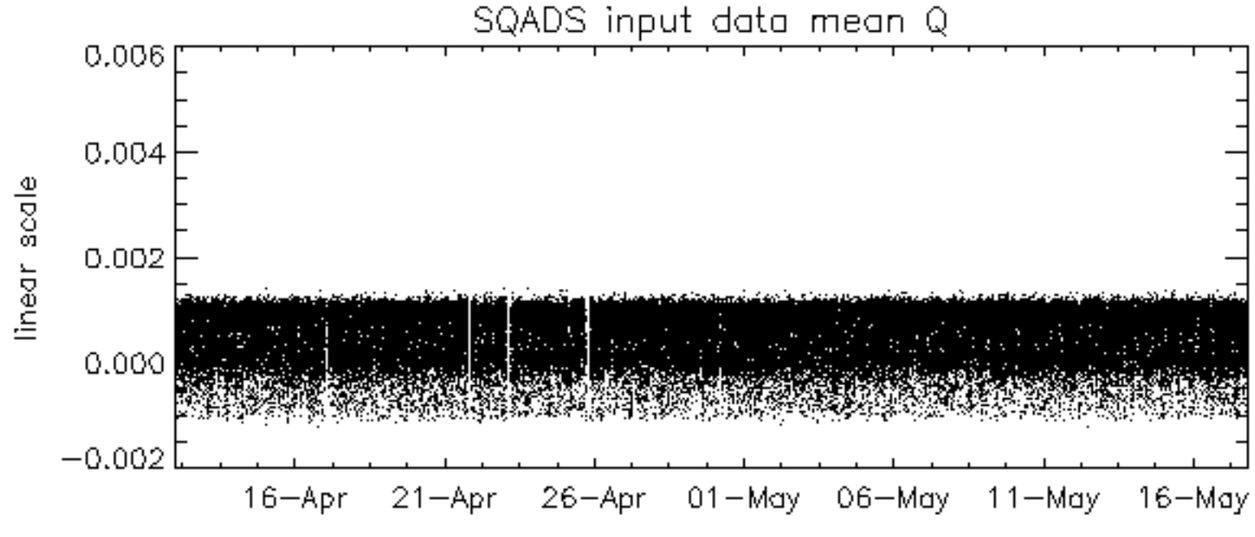
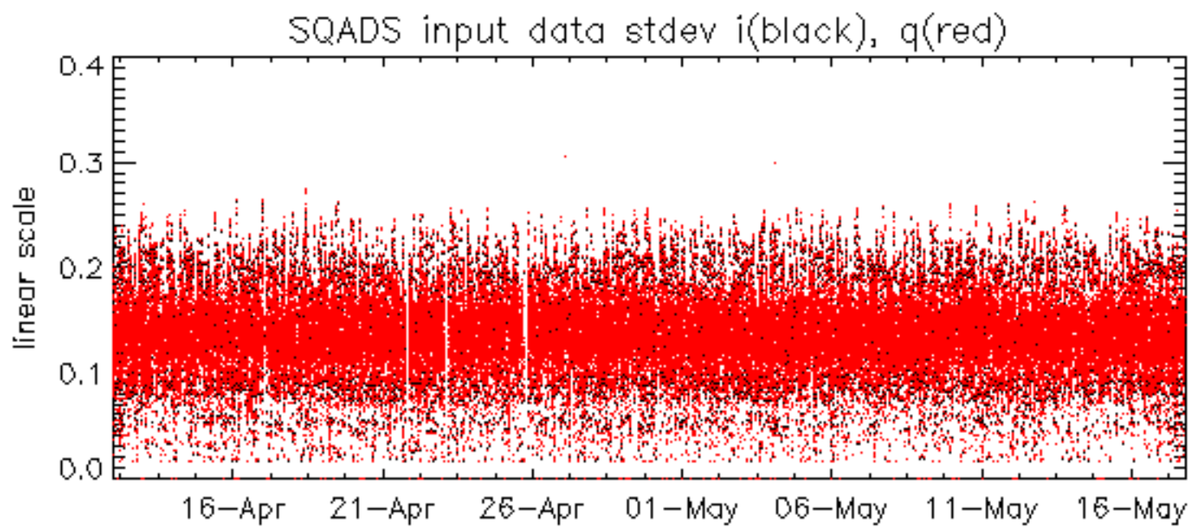
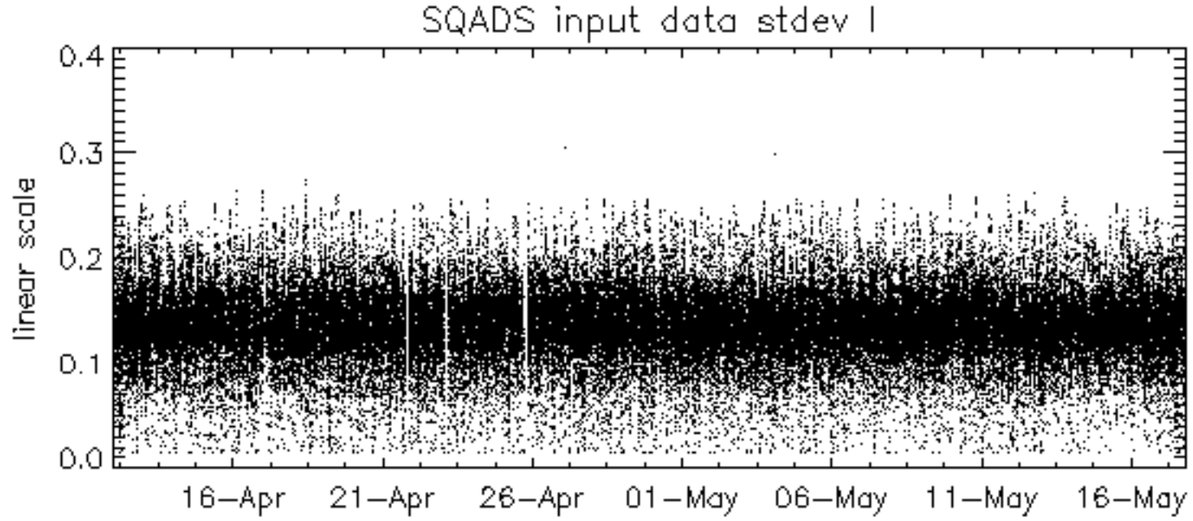

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

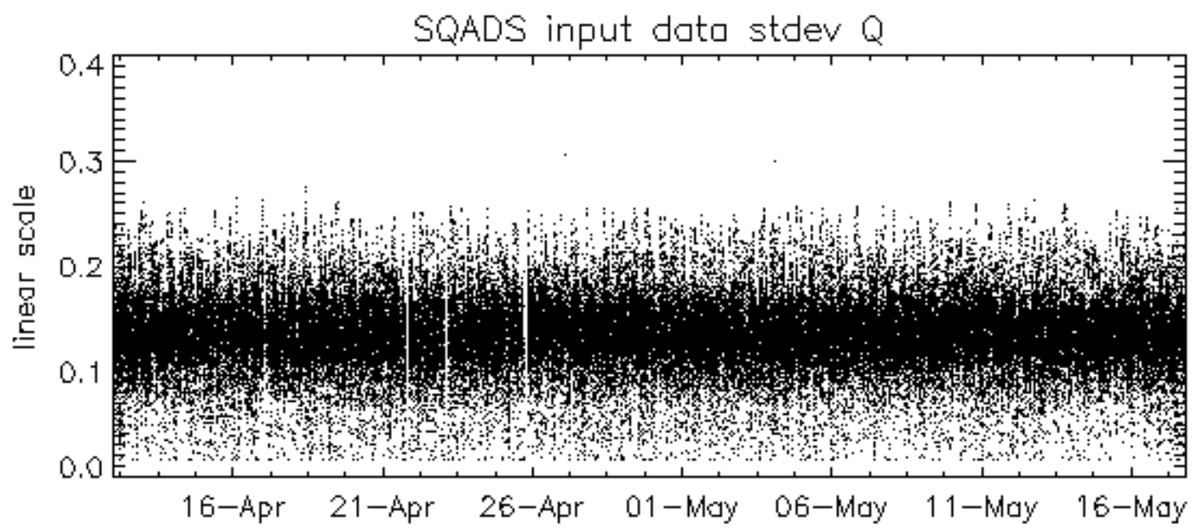

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May
16−May

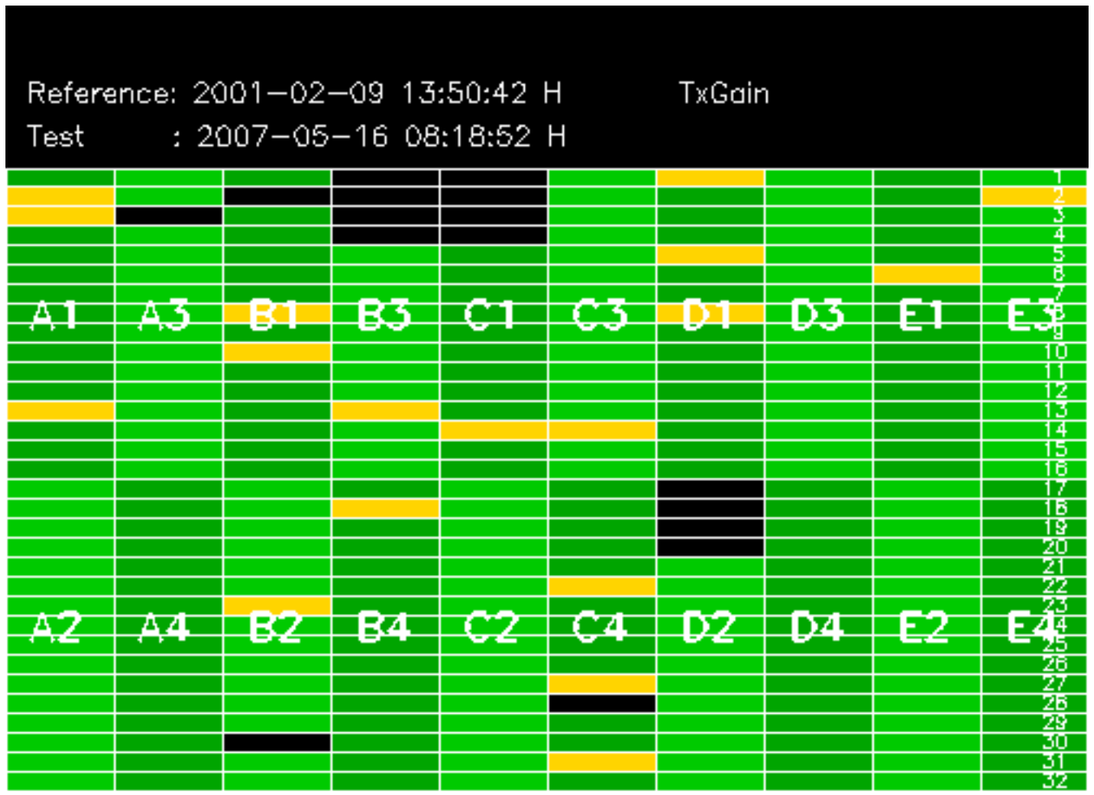

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May
16−May


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2007-05-16 08:18:52 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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B4
C2
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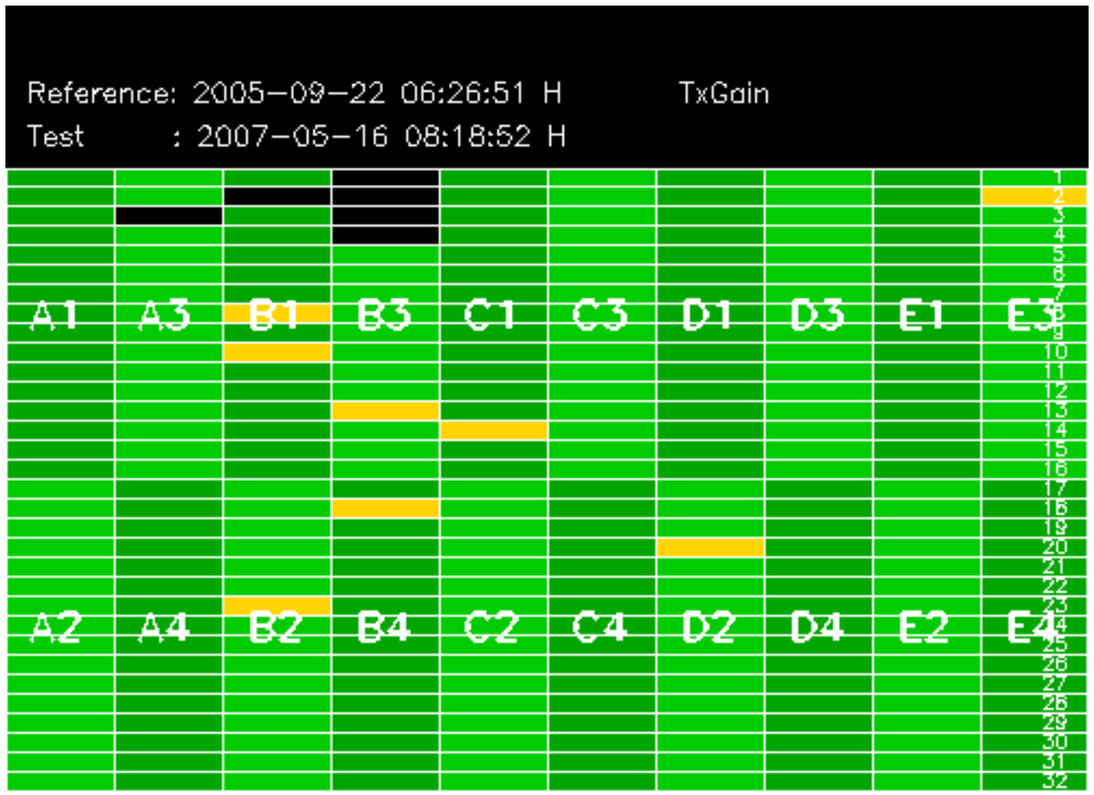
Reference: 2005-09-22 06:26:51 H
TxGain
Test : 2007-05-16 08:18:52 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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B4
C2
C4
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E4
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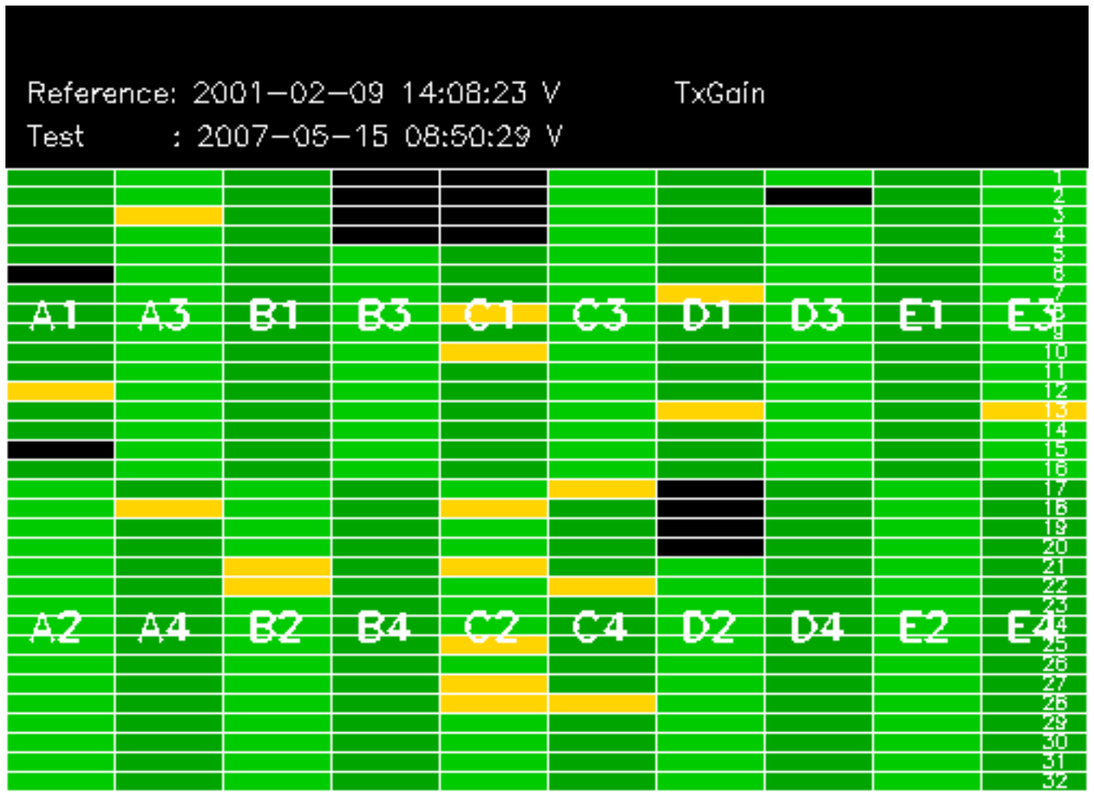
Reference: 2001-02-09 14:08:23 V
Test : 2007-05-15 08:50:29 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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C2
C4
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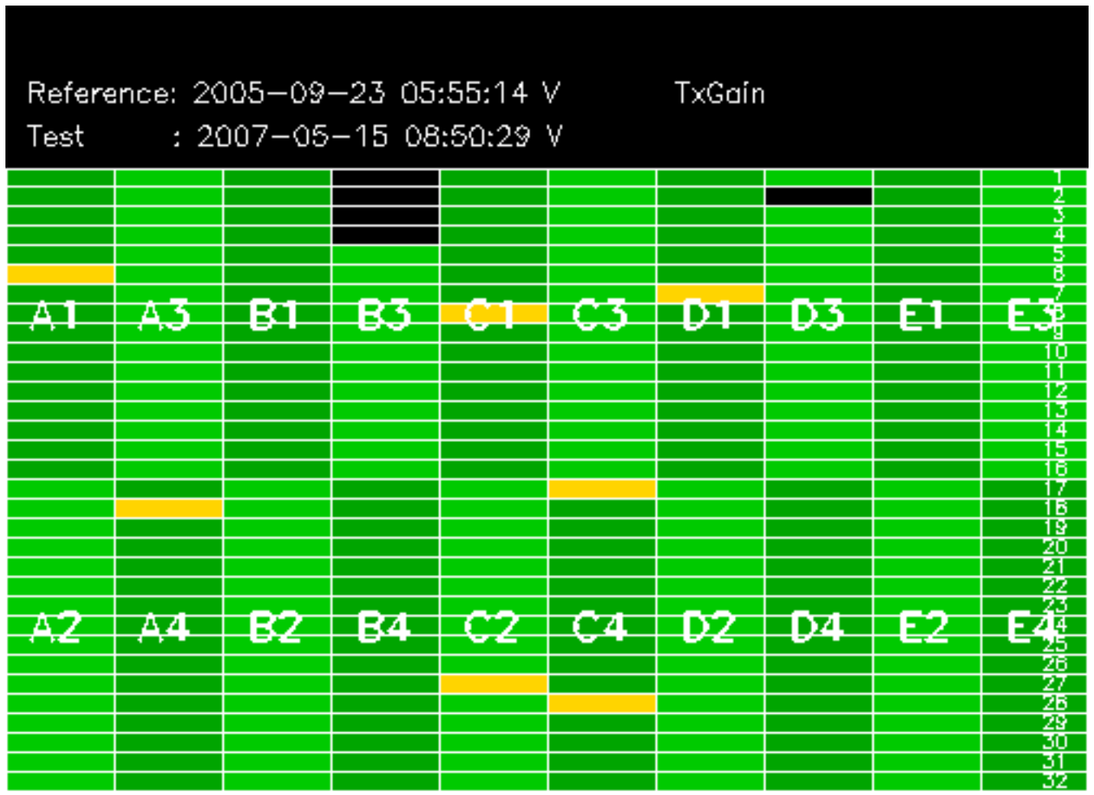
Reference: 2005-09-23 05:55:14 V
Test : 2007-05-15 08:50:29 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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B4
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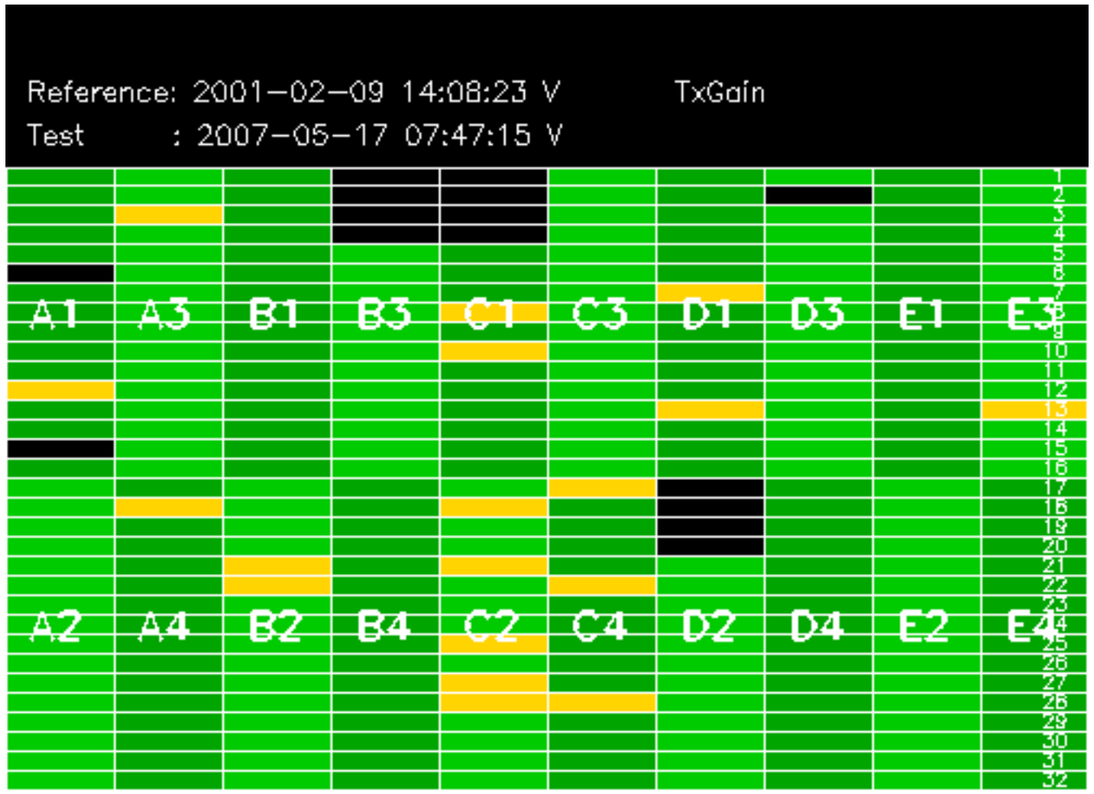
Reference: 2001-02-09 14:08:23 V
Test : 2007-05-17 07:47:15 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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B4
C2
C4
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D4
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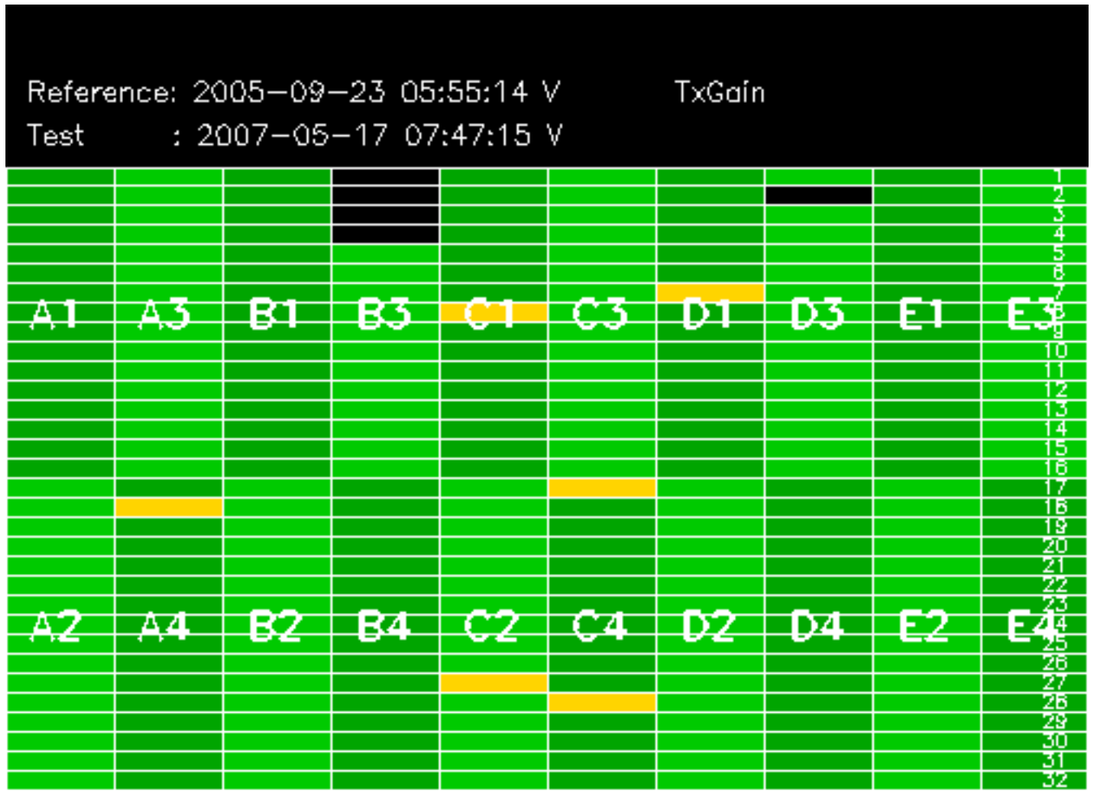
Reference: 2005-09-23 05:55:14 V
Test : 2007-05-17 07:47:15 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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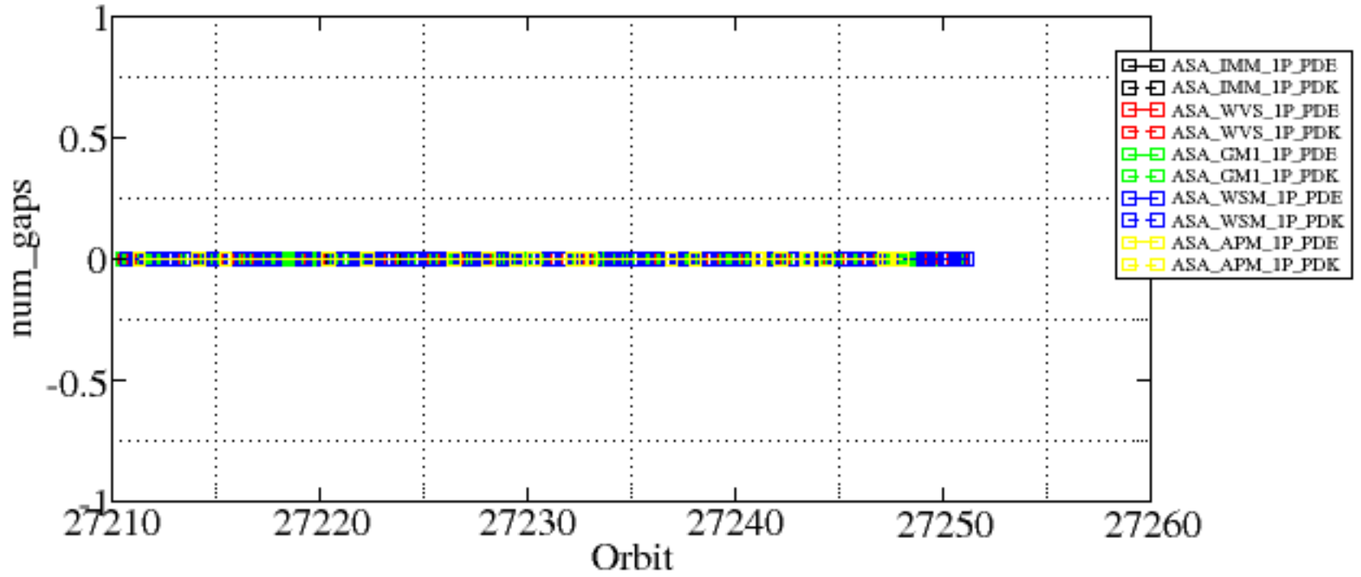
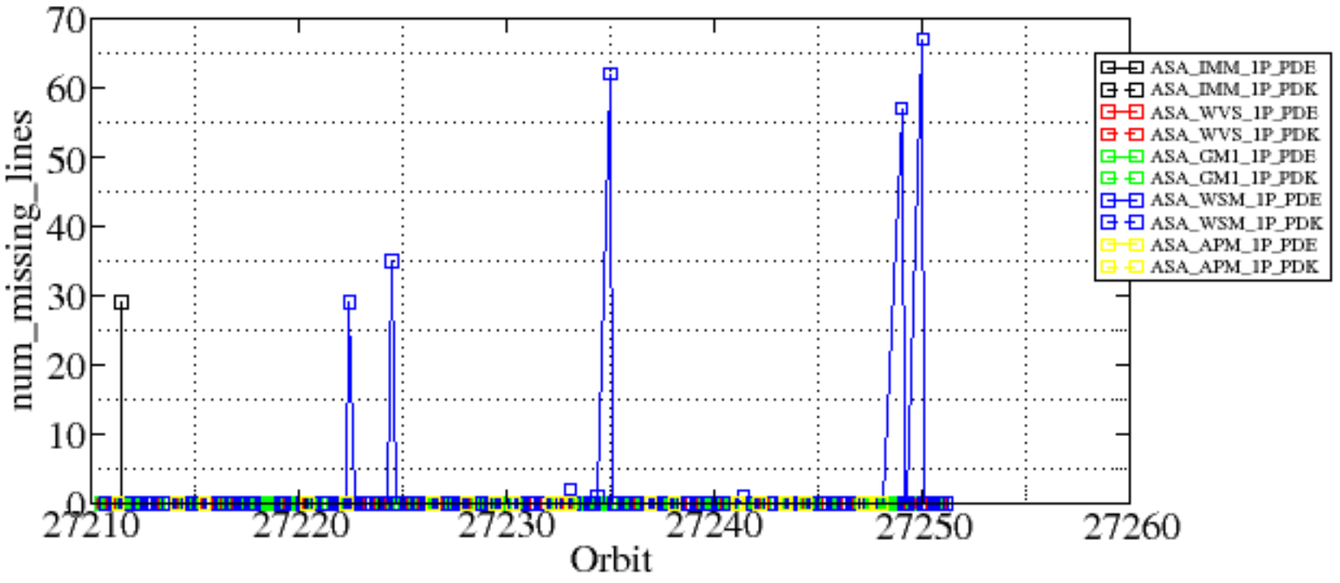
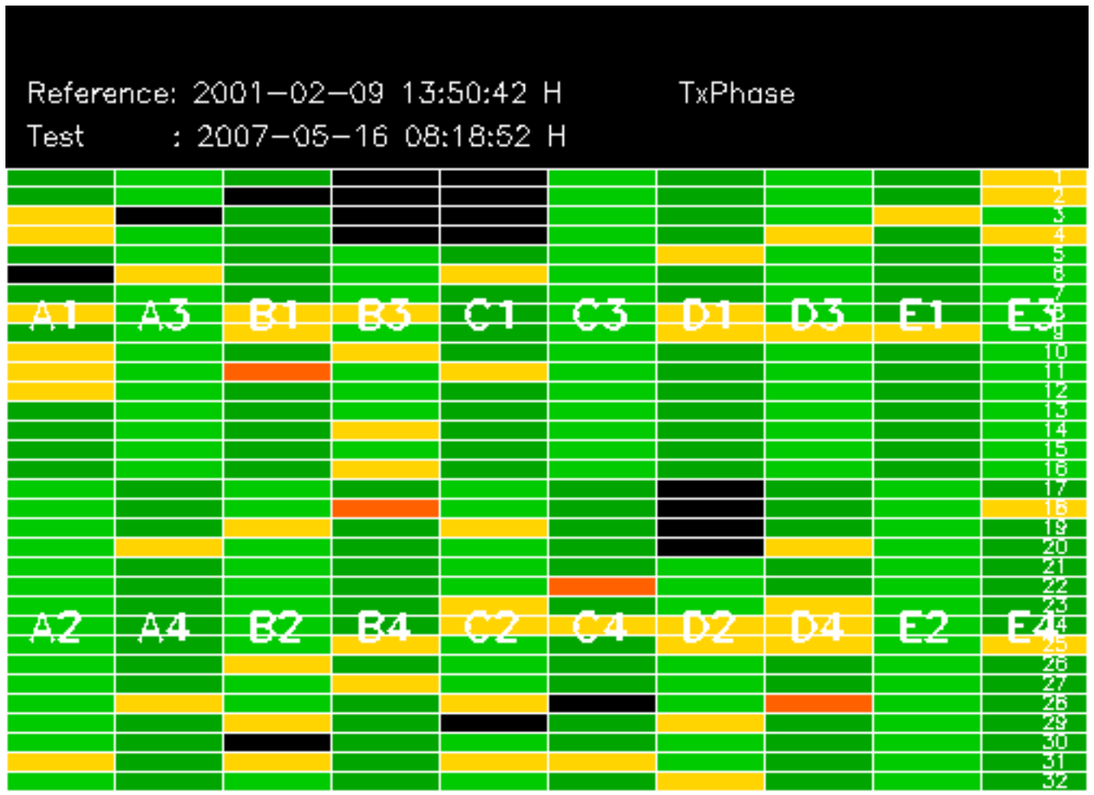
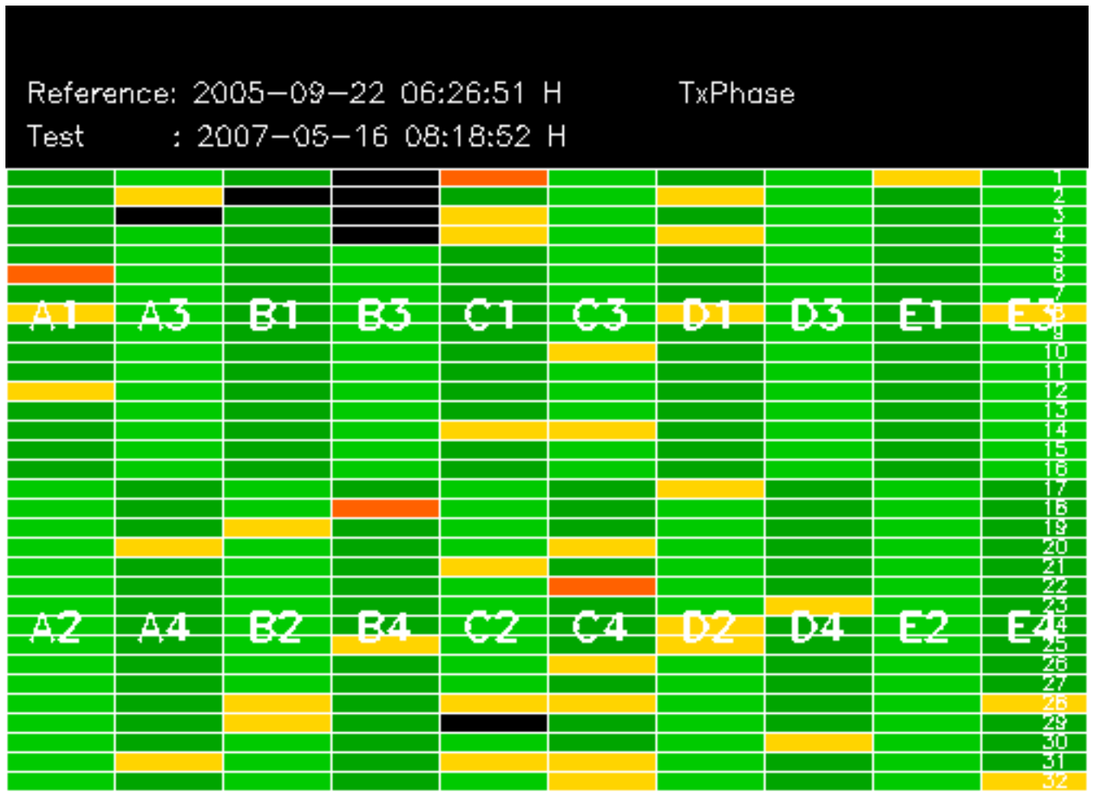
Summary of analysis for the last 3 days 2007051[567]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20070515_014512_000000352058_00103_27211_6080.N1 </td> <td>0 </td> <td>29 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070515_201141_000000672058_00114_27222_7296.N1 </td> <td>0 </td> <td>29 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070515_233737_000001412058_00116_27224_7642.N1 </td> <td>0 </td> <td>35 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070516_161232_000000852058_00126_27234_8519.N1 </td> <td>0 </td> <td>1 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070516_171622_000002252058_00127_27235_8573.N1 </td> <td>0 </td> <td>62 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070517_035646_000001282058_00133_27241_9322.N1 </td> <td>0 </td> <td>1 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070517_164501_000000852058_00141_27249_9765.N1 </td> <td>0 </td> <td>57 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070517_182820_000000852058_00142_27250_9815.N1 </td> <td>0 </td> <td>67 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20070516_135852_000000862058_00125_27233_1603.N1 </td> <td>0 </td> <td>2 </td></tr>
</table>


num_gaps
1
0.5
0
-0.5
-1
27210
27220
27230
27240
27250
27260
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
ASA_APM_1P_PDK


num_missing_lines
70
60
50
40
30
20
10
0
27210
27220
27230
27240
27250
27260
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
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
Test : 2007-05-16 08:18:52 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
TxPhase
Test : 2007-05-16 08:18:52 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
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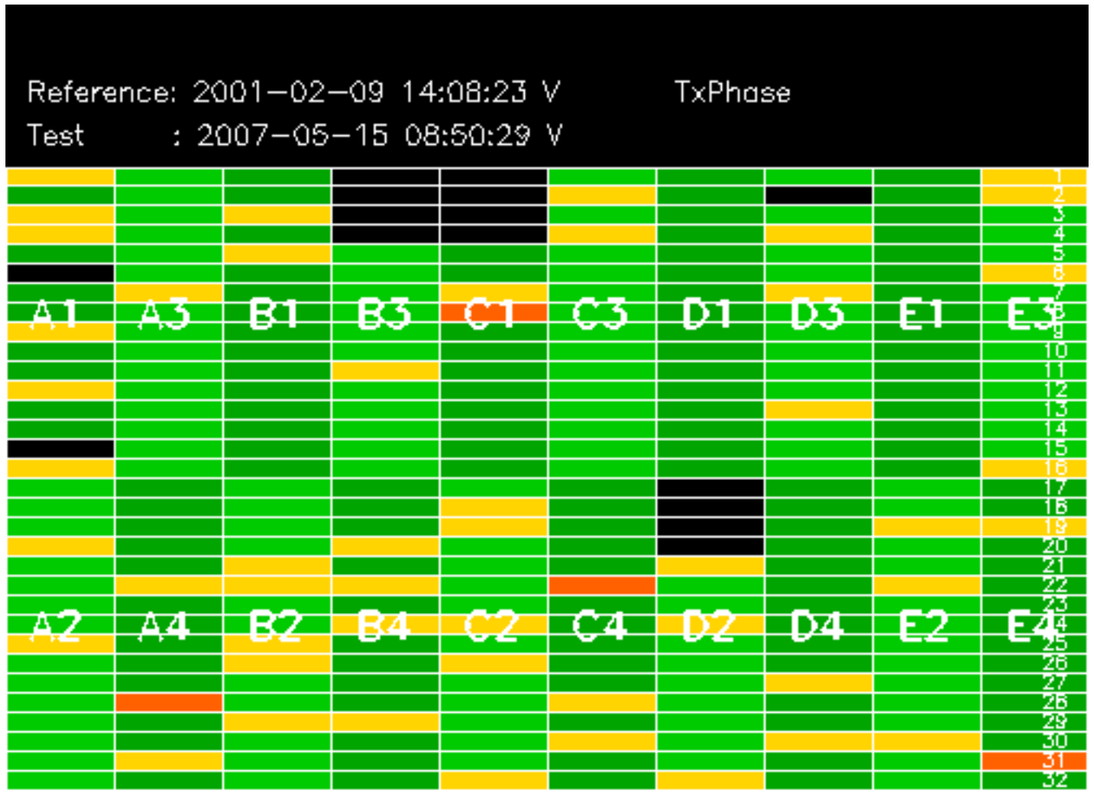
Reference: 2001-02-09 14:08:23 V
Test : 2007-05-15 08:50:29 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
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11
12
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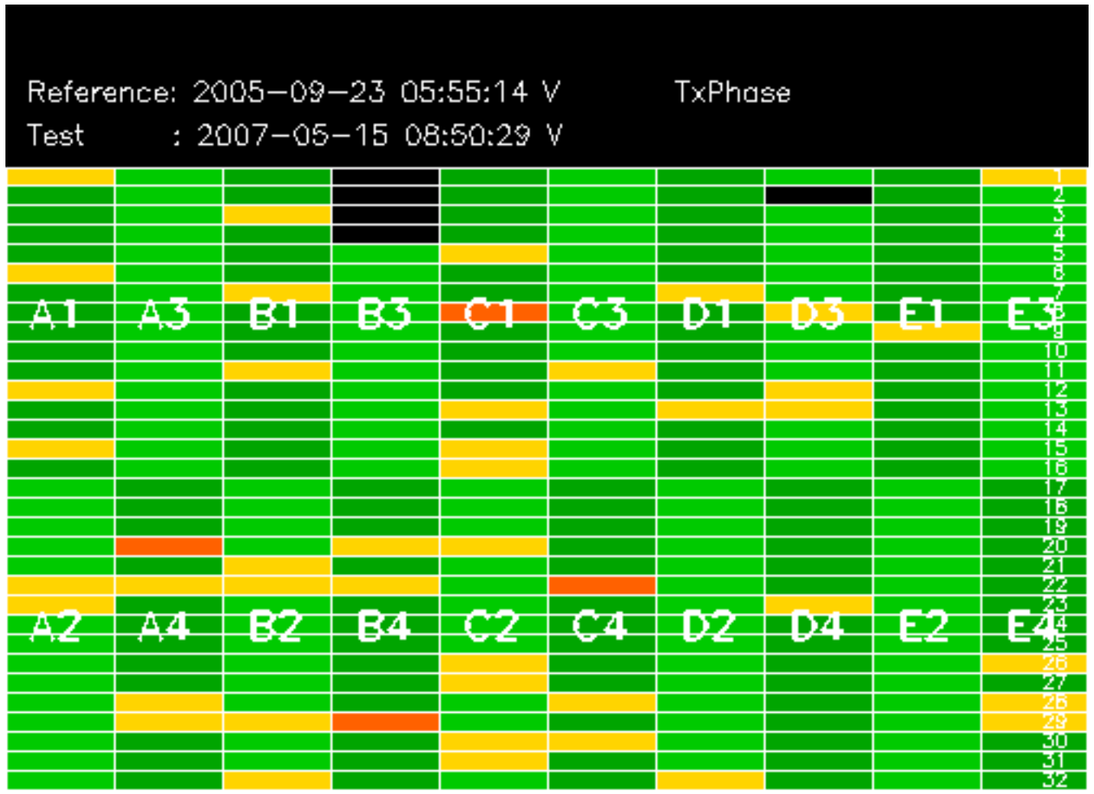
32


Reference: 2005-09-23 05:55:14 V
Test : 2007-05-15 08:50:29 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
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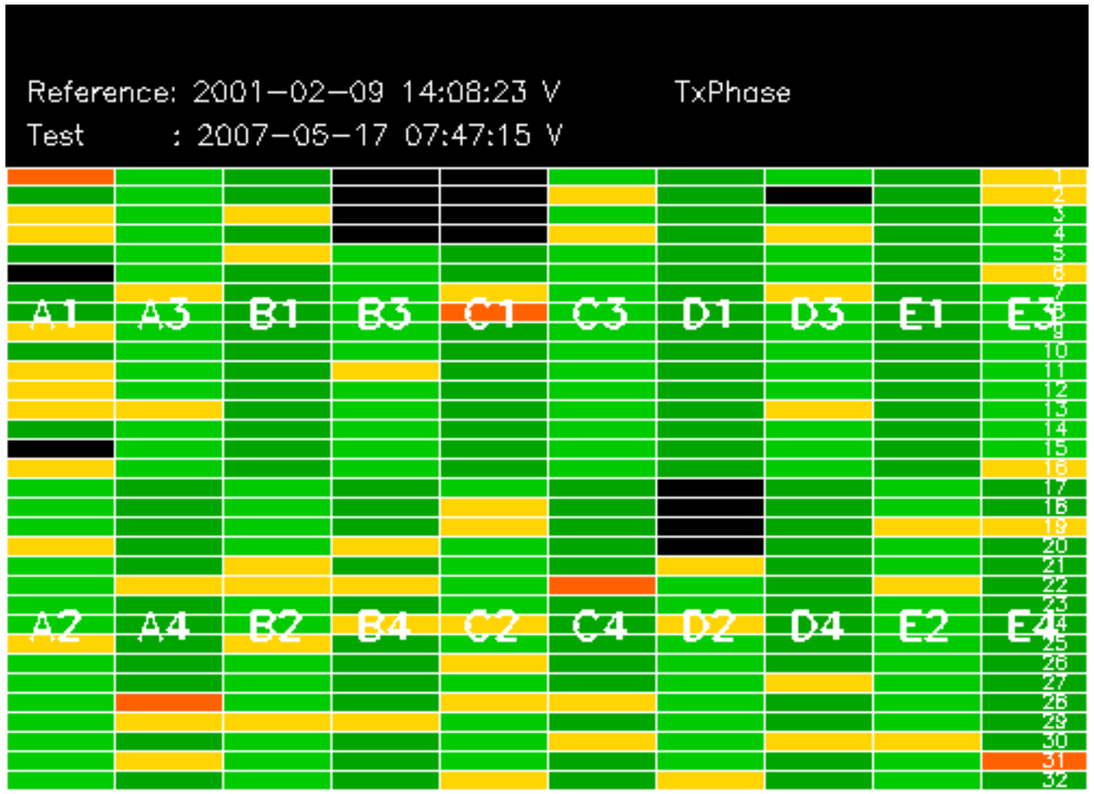
Reference: 2001-02-09 14:08:23 V
Test : 2007-05-17 07:47:15 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
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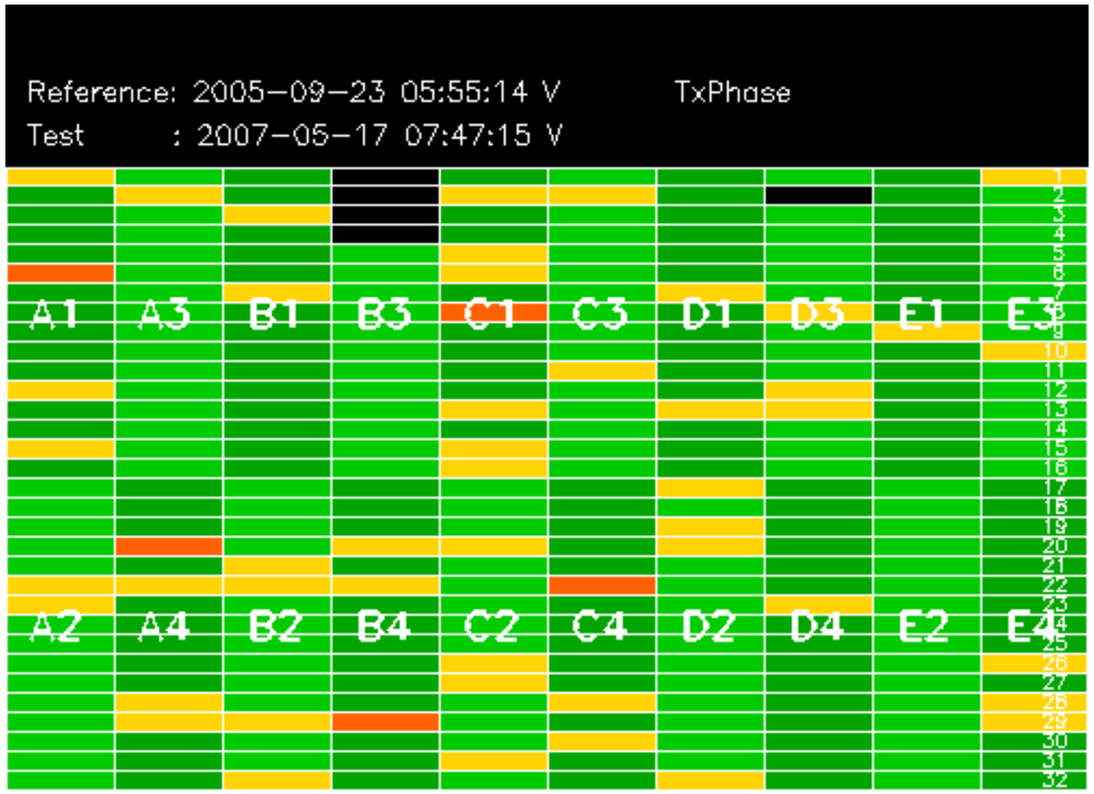
Reference: 2005-09-23 05:55:14 V
Test : 2007-05-17 07:47:15 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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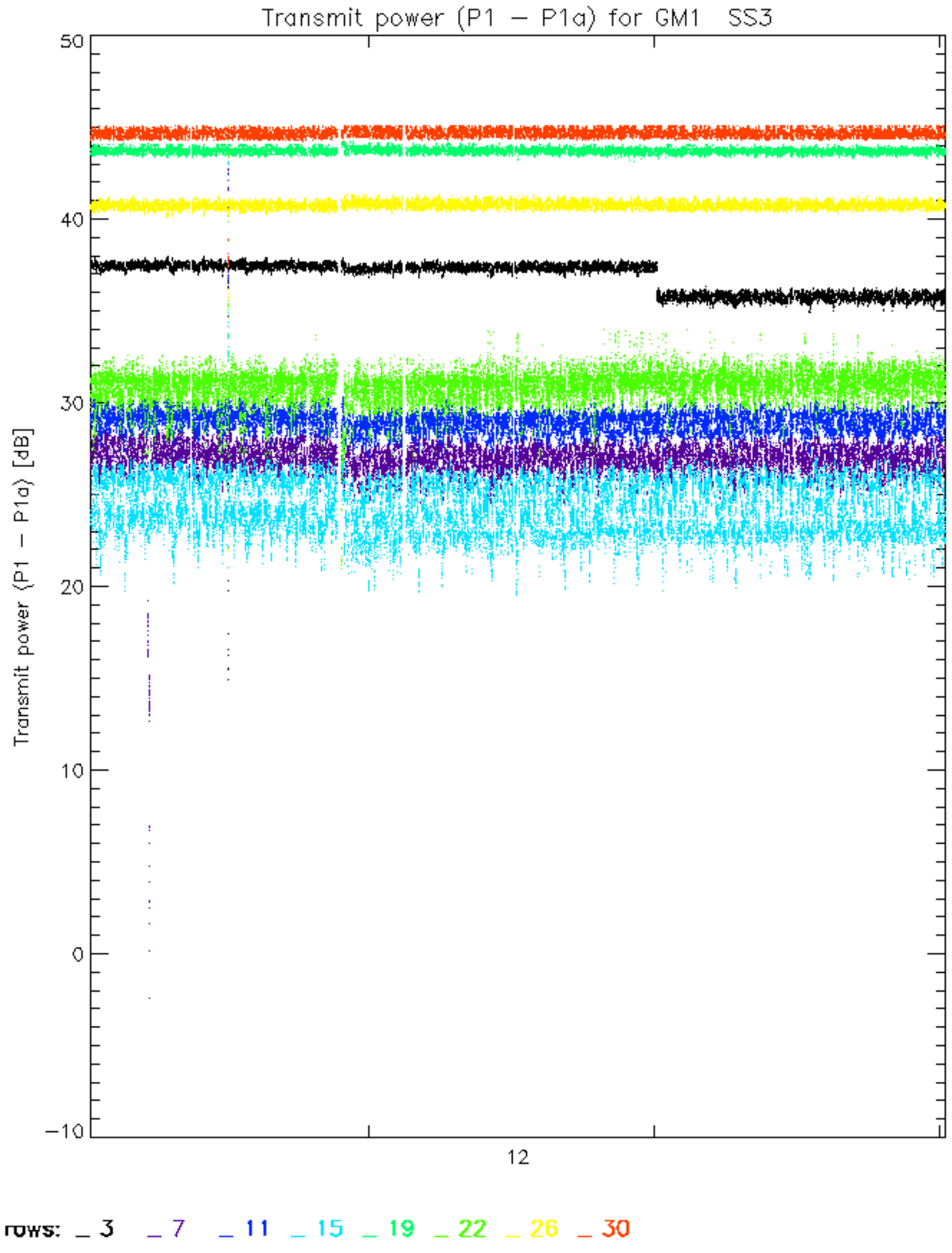
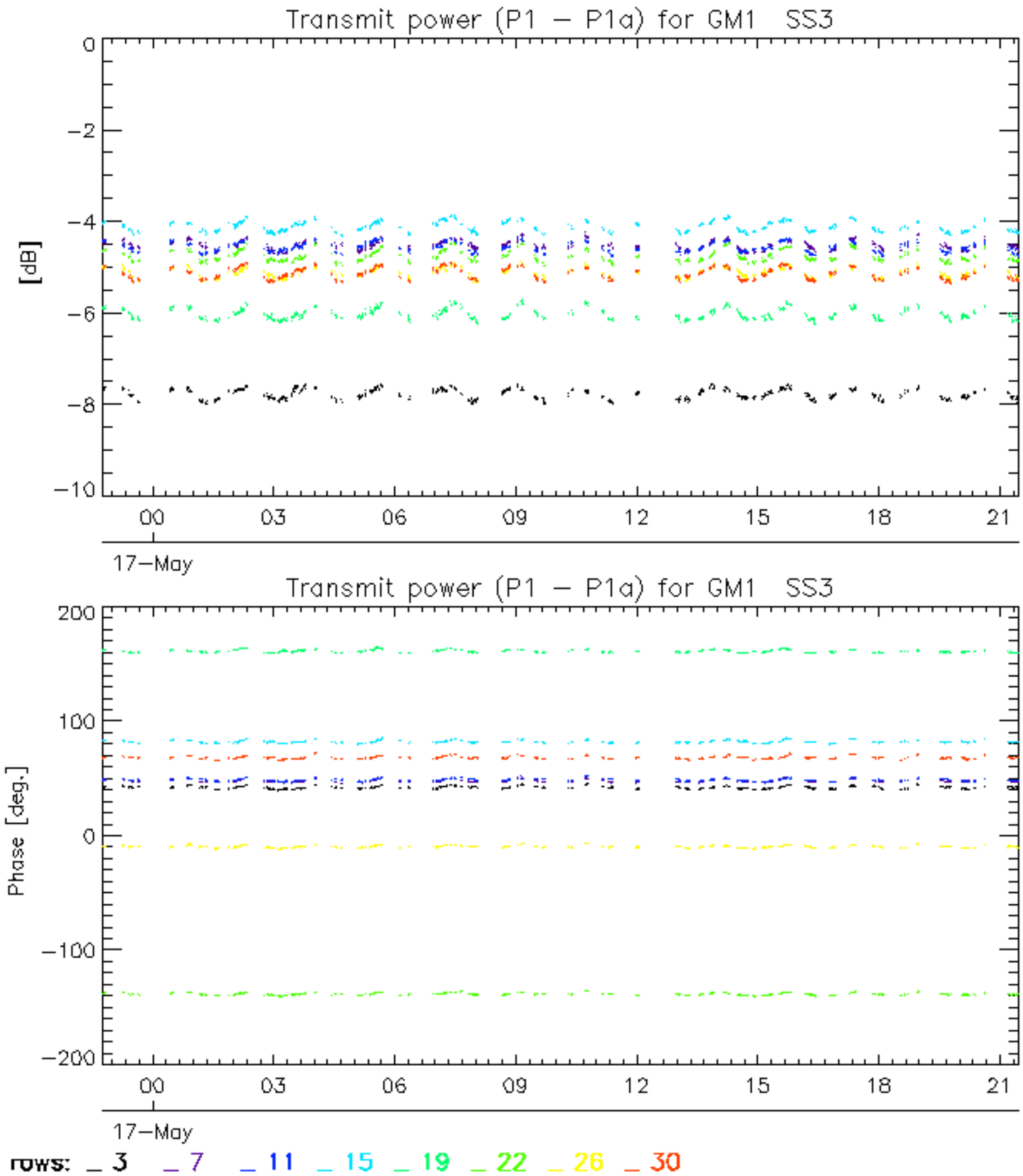
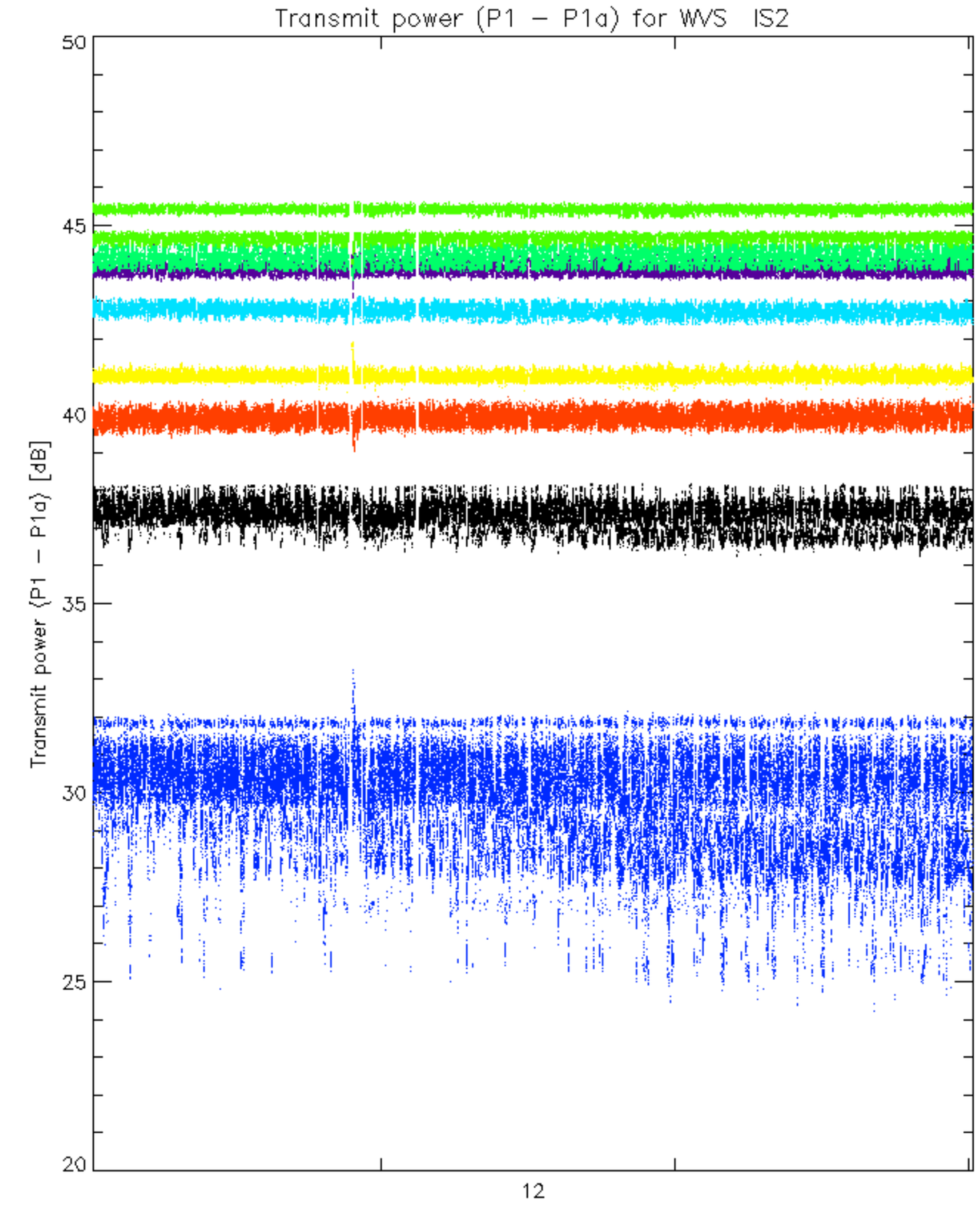
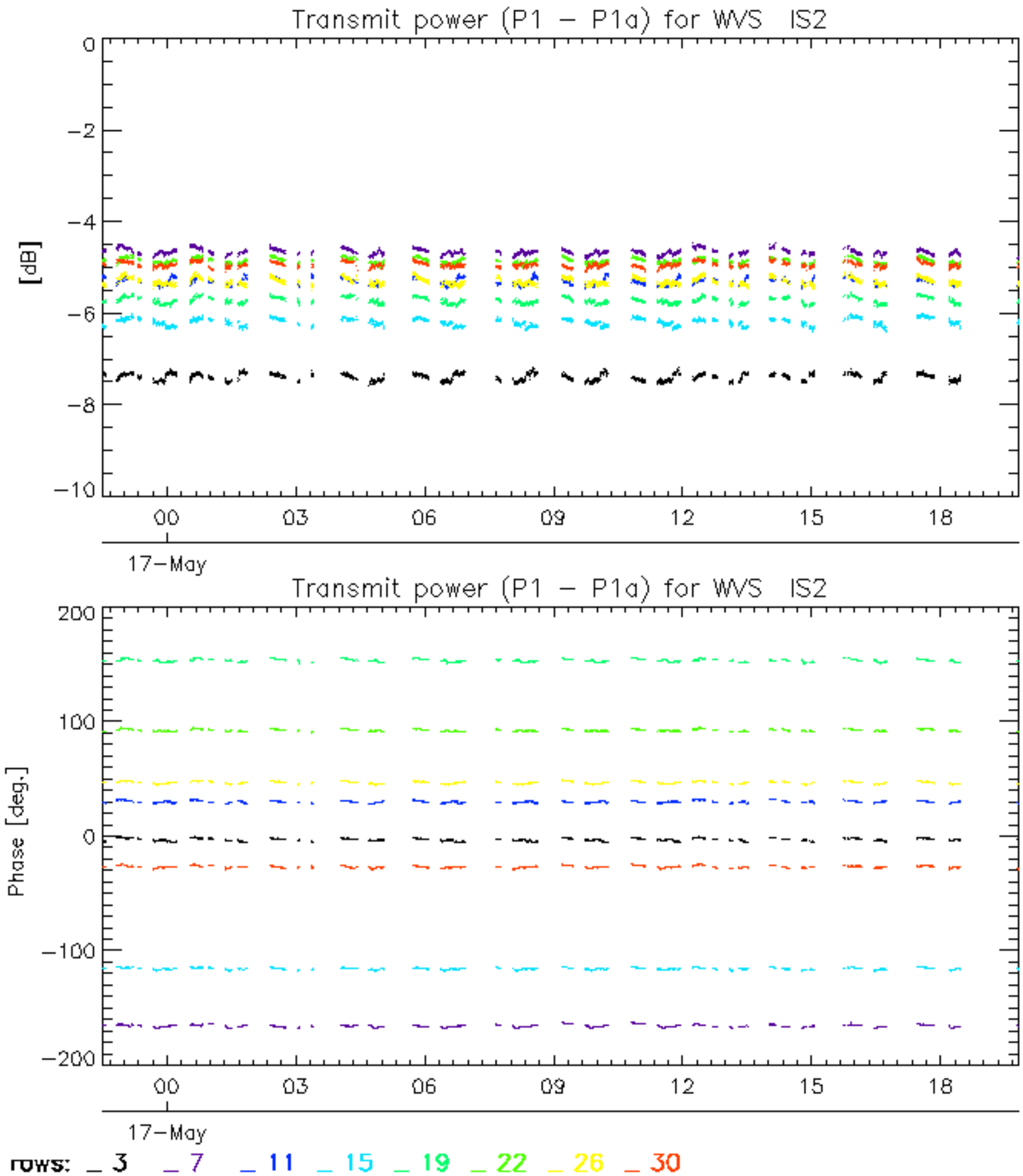

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
12
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
00
03
06
09
12
15
18
21
17–May
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
00
03
06
09
12
15
18
21
17–May
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
12
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
00
03
06
09
12
15
18
17−May
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
00
03
06
09
12
15
18
17−May
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.