PRELIMINARY REPORT OF 070522

last update on Tue May 22 23:32:42 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 2007-05-21 00:00:00 to 2007-05-22 23:32:43

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

ASA_INS_AXVIEC20070306_164819_20070307_060000_20071231_000000	48	98	8	2	61
ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	48	98	8	2	61
ASA_CON_AXVIEC20070410_140202_20070204_165113_20071231_000000	48	98	8	2	61
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	48	98	8	2	61

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_INS_AXVIEC20070306_164819_20070307_060000_20071231_000000	37	54	33	13	79
ASA_XCA_AXVIEC20070517_153558_20070204_165113_20071231_000000	37	54	33	13	79
ASA_CON_AXVIEC20070410_140202_20070204_165113_20071231_000000	37	54	33	13	79
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	37	54	33	13	79

2.3 - Browse Visual Inspection

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	20070519 064401
H	20070522 050911

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)
3	P1a	-15.233436	0.128390	-0.251252
7	P1a	-17.598677	0.071890	-0.059676
11	P1a	-17.733082	0.341553	-0.176622
15	P1a	-13.155350	0.152209	-0.169304
19	P1a	-15.439090	0.068200	-0.065590
22	P1a	-15.994927	0.344680	-0.021738
26	P1a	-14.951416	0.212023	-0.081758
30	P1a	-17.994570	0.418172	-0.433203

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-5.784957	0.009973	-0.014211
7	P1	-3.165820	0.008495	-0.041637
11	P1	-4.191855	0.017514	0.058376
15	P1	-6.467159	0.019302	-0.070871
19	P1	-3.778065	0.012025	-0.014448
22	P1	-4.740706	0.011325	0.037453
26	P1	-3.909176	0.017906	-0.027724
30	P1	-5.961937	0.009347	0.007077

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-22.650955	0.093599	0.016520
7	P2	-21.505335	0.093965	0.092064
11	P2	-15.280492	0.121865	0.061584
15	P2	-7.133161	0.091406	-0.003086
19	P2	-9.121448	0.082954	-0.014308
22	P2	-18.085785	0.077945	0.000441
26	P2	-16.653738	0.084729	-0.052060
30	P2	-19.246767	0.084361	0.056043

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.244431	0.004630	0.002929
7	P3	-8.244431	0.004630	0.002929
11	P3	-8.244431	0.004630	0.002929
15	P3	-8.244431	0.004630	0.002929
19	P3	-8.244431	0.004630	0.002929
22	P3	-8.244431	0.004630	0.002929
26	P3	-8.244411	0.004636	0.003090
30	P3	-8.244411	0.004636	0.003090

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	-11.508673	0.204190	-0.855109
7	P1a	-10.030301	0.211076	0.128372
11	P1a	-10.692807	0.100501	-0.013597
15	P1a	-10.782563	0.166898	0.124848
19	P1a	-15.860440	0.110300	-0.139013
22	P1a	-21.503340	1.374175	-0.103948
26	P1a	-15.563250	0.325102	-0.062714
30	P1a	-18.260963	0.430601	0.039758

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-7.918323	0.380043	1.667805
7	P1	-2.374623	0.131121	0.094140
11	P1	-2.871433	0.025730	0.026887
15	P1	-3.794033	0.040653	0.052129
19	P1	-3.606337	0.018889	-0.047766
22	P1	-4.943588	0.024133	0.031411
26	P1	-6.059729	0.026713	-0.048617
30	P1	-5.357811	0.035321	-0.054210

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-18.210039	0.099188	-0.064406
7	P2	-22.054419	0.273285	-0.061042
11	P2	-10.656968	0.063927	-0.051606
15	P2	-4.962160	0.045795	-0.077753
19	P2	-6.881532	0.046117	-0.027220
22	P2	-8.108372	0.106452	0.003721
26	P2	-24.344992	0.184564	-0.085773
30	P2	-21.698164	0.129703	-0.008136

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.092055	0.005186	-0.003091
7	P3	-8.091920	0.005185	-0.002829
11	P3	-8.091961	0.005177	-0.003181
15	P3	-8.091947	0.005181	-0.003325
19	P3	-8.091961	0.005190	-0.003197
22	P3	-8.091925	0.005186	-0.003518
26	P3	-8.091986	0.005193	-0.003650
30	P3	-8.091885	0.005185	-0.003495

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	0.000551509
	stdev	1.90131e-07
MEAN Q	mean	0.000511767
	stdev	2.36693e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136182
	stdev	0.00116436
STDEV Q	mean	0.136566
	stdev	0.00118143

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2007052[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_WSM_1PNPDE20070520_005022_000002612058_00174_27282_3191.N1	0	35
ASA_WSM_1PNPDE20070520_151026_000003302058_00183_27291_3737.N1	0	52
ASA_WSM_1PNPDE20070520_165036_000000852058_00184_27292_3767.N1	0	31
ASA_WSM_1PNPDE20070520_183356_000000862058_00185_27293_3810.N1	0	36
ASA_WSM_1PNPDE20070521_162341_000002022058_00198_27306_5002.N1	0	46
ASA_WSM_1PNPDE20070521_180340_000001102058_00199_27307_5028.N1	0	5
ASA_WSM_1PNPDK20070521_150502_000001152058_00197_27305_8922.N1	0	89

7 - Doppler Analysis

No anomalies observed Doppler evolution.
Doppler analysis performed over the last 35 days

7.1 - Unbiased Doppler Error for WVS

Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

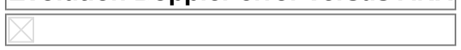
7.2 - Absolute Doppler for WVS

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

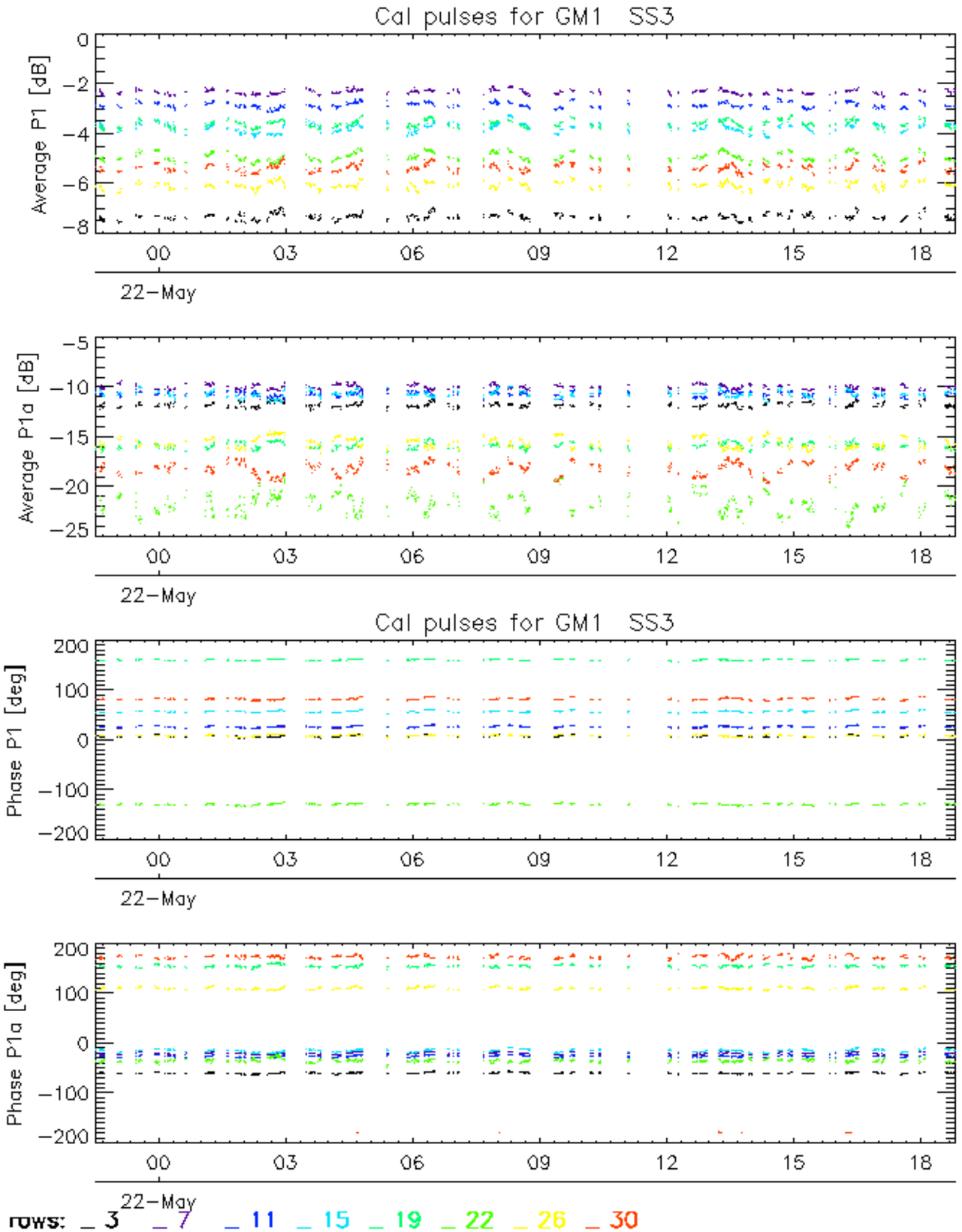
Evolution of Absolute Doppler

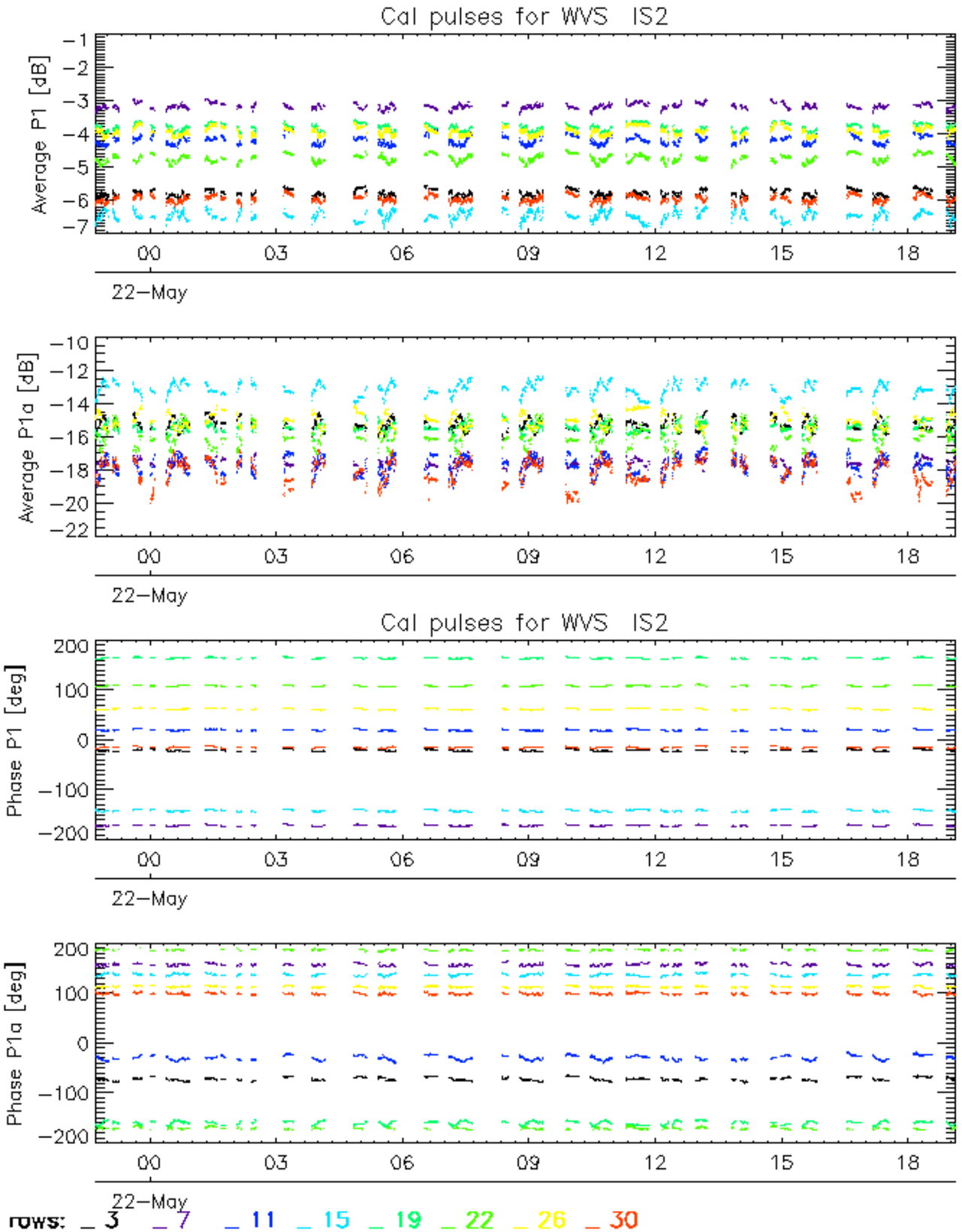
Acsending

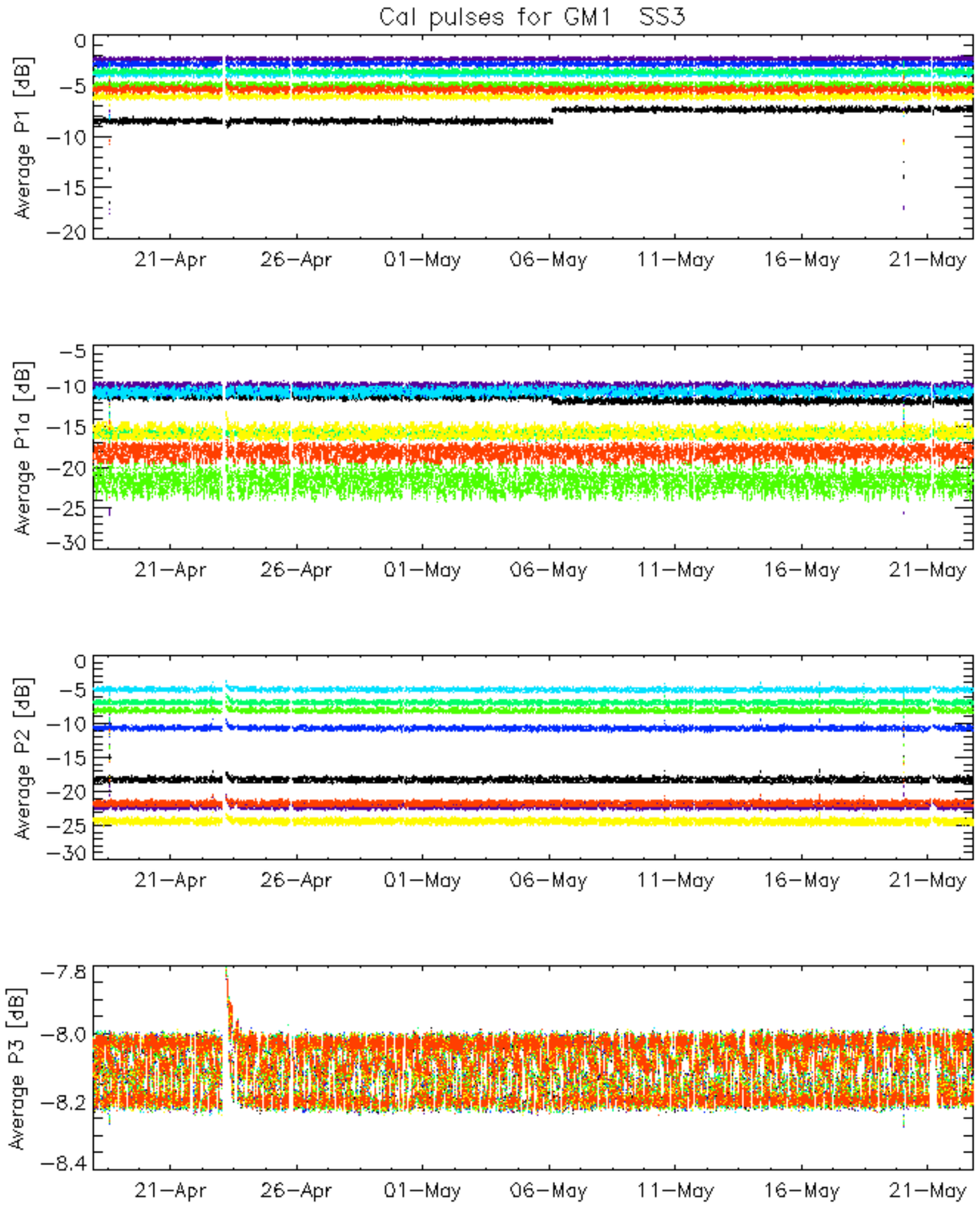
Descending

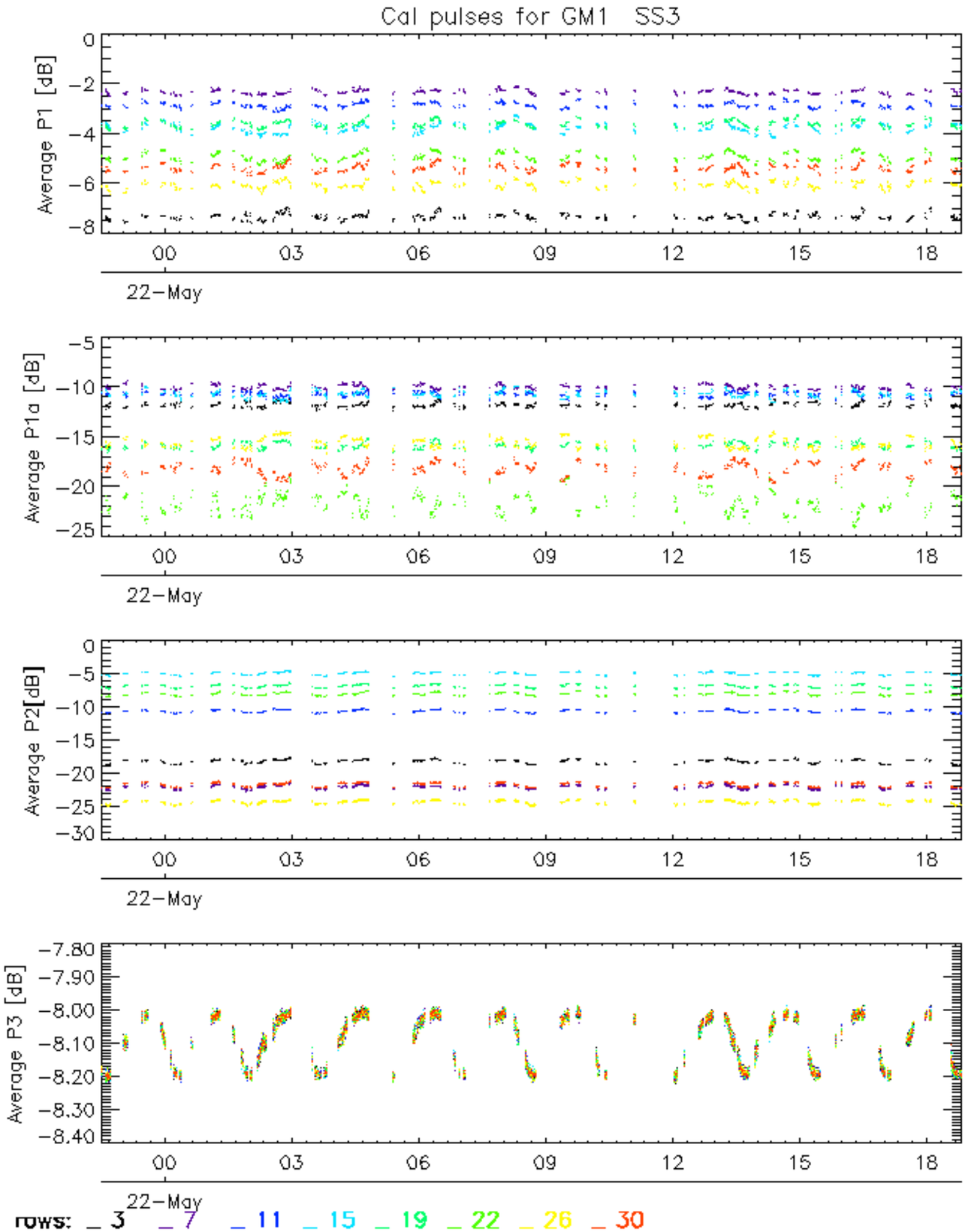
7.6 - Doppler evolution versus ANX for GM1

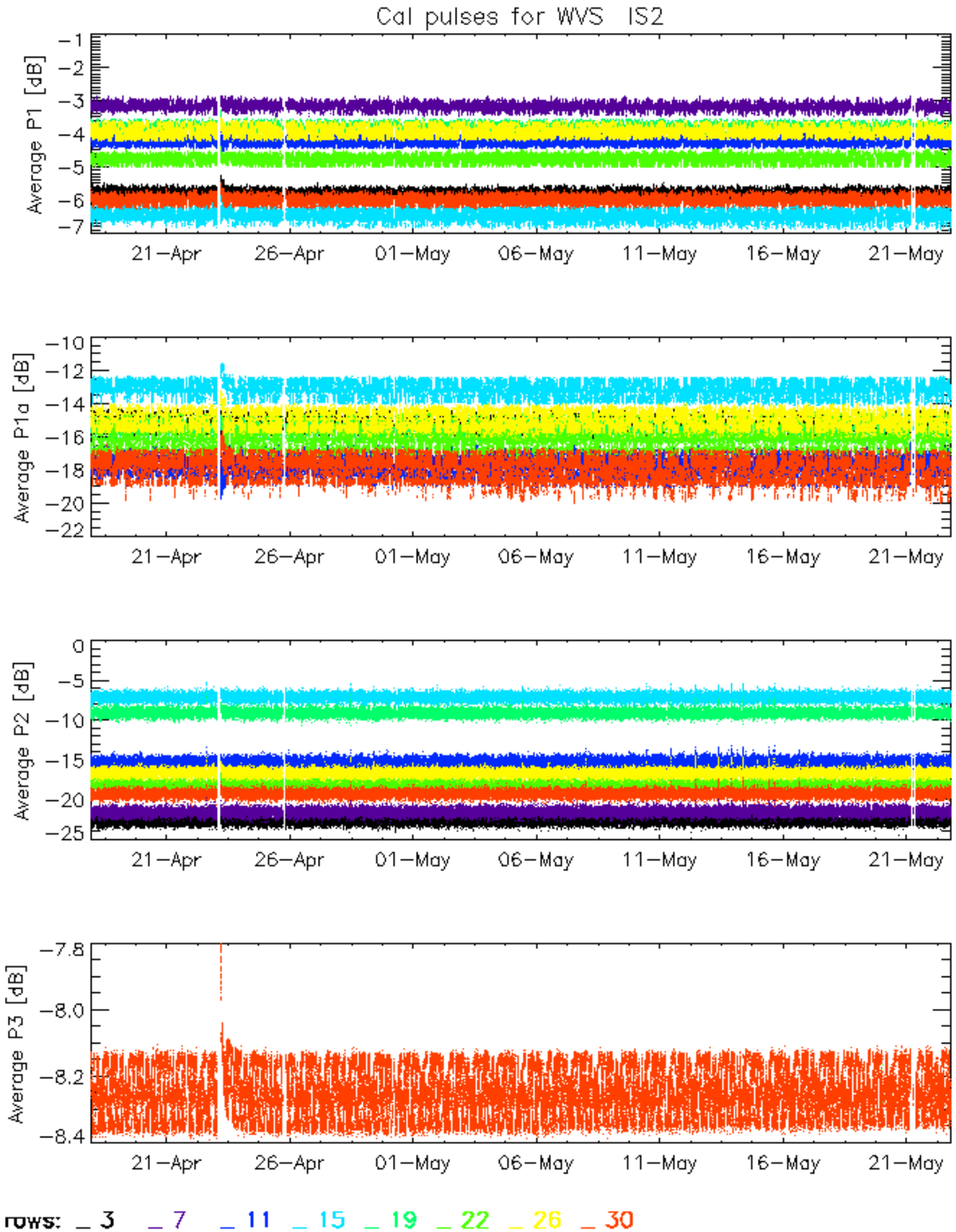
Evolution Doppler error versus ANX

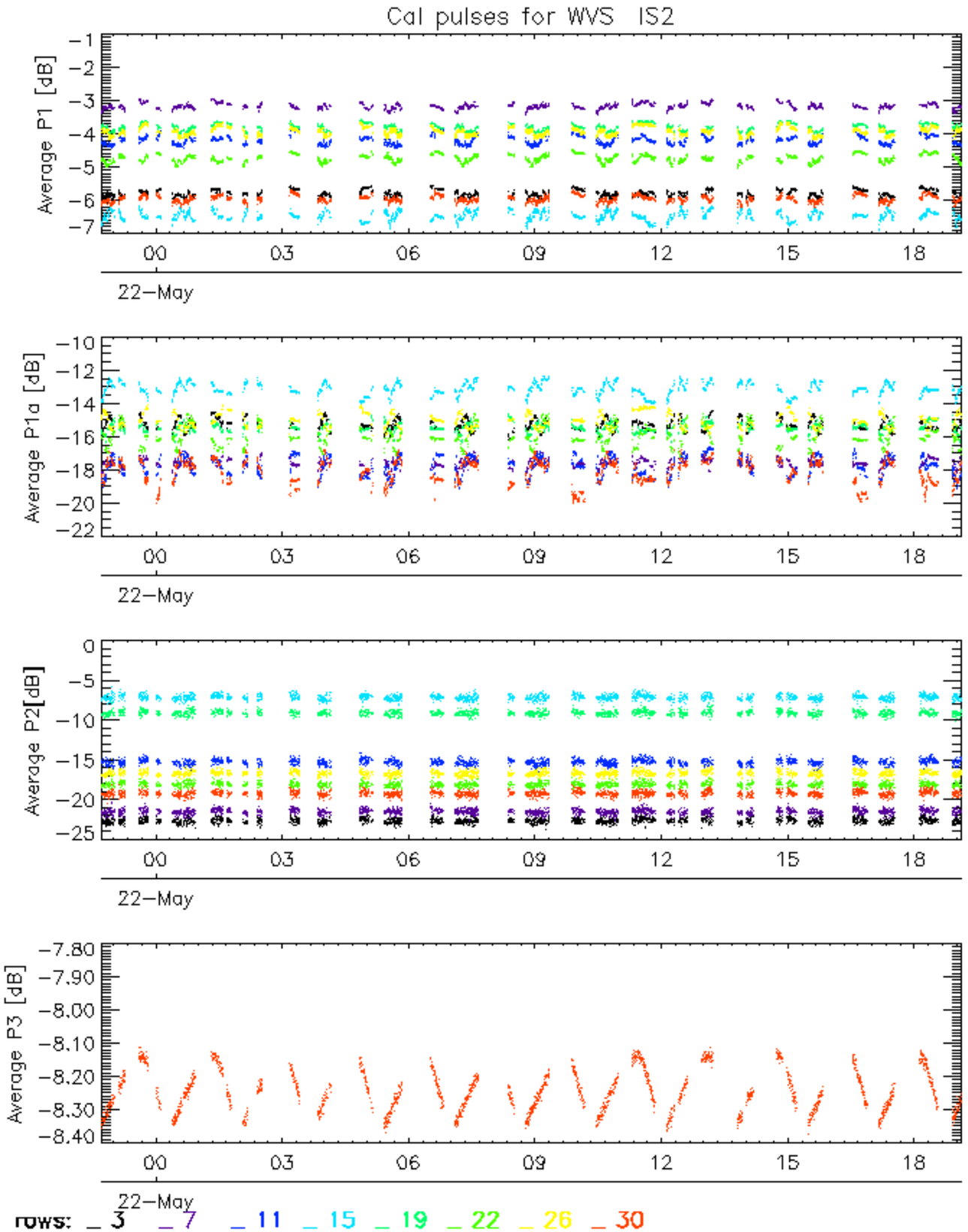


Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
00
03
06
09
12
15
18
22−May
Average P1a [dB]
−5
−10
−15
−20
−25
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
Phase P1a [deg]
rows: 3 7 11 15 19 22 26 30


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

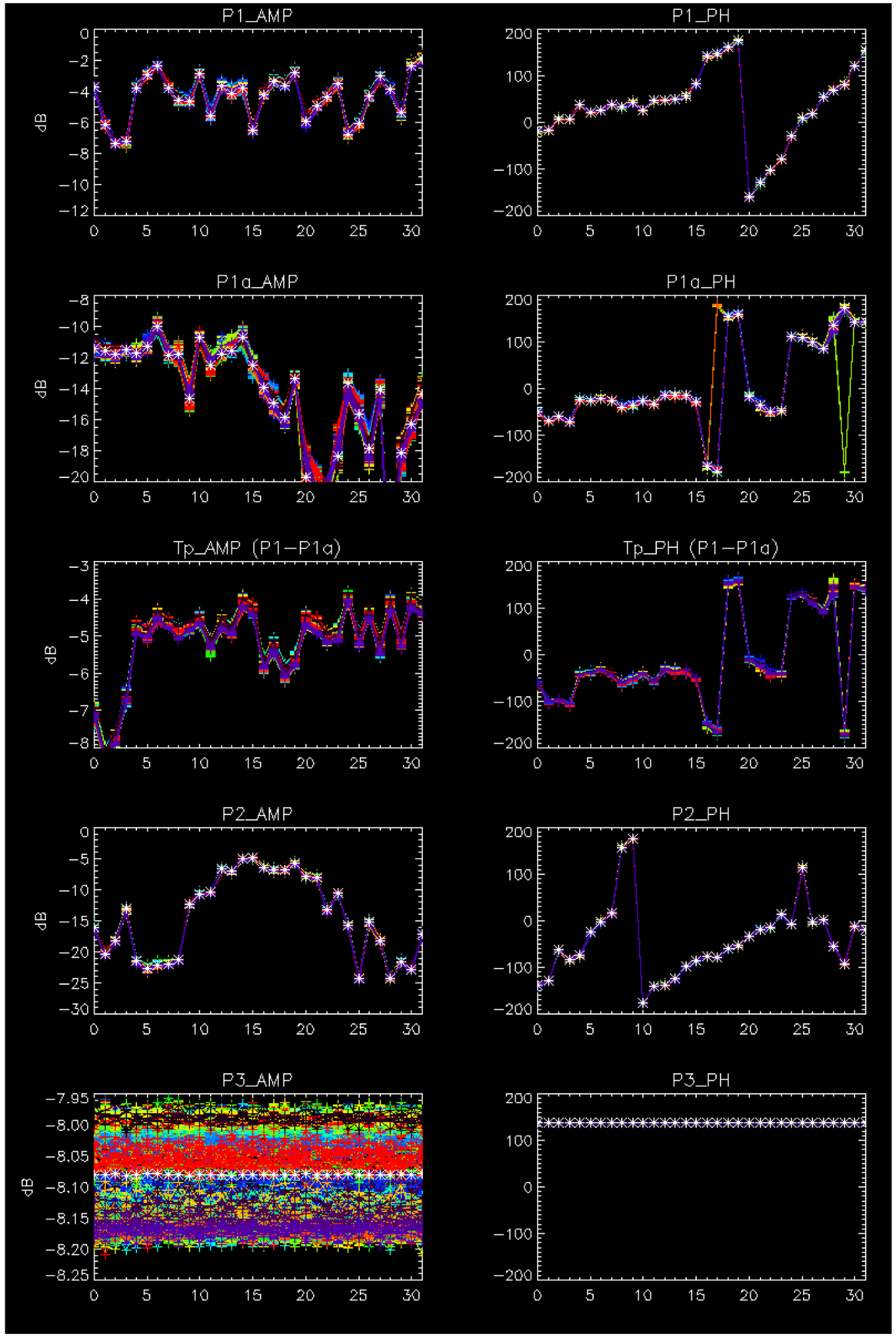

Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
0
−5
−10
−15
−20
−25
−30
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
21−Apr
26−Apr
01−May
06−May
11−May
16−May
21−May
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

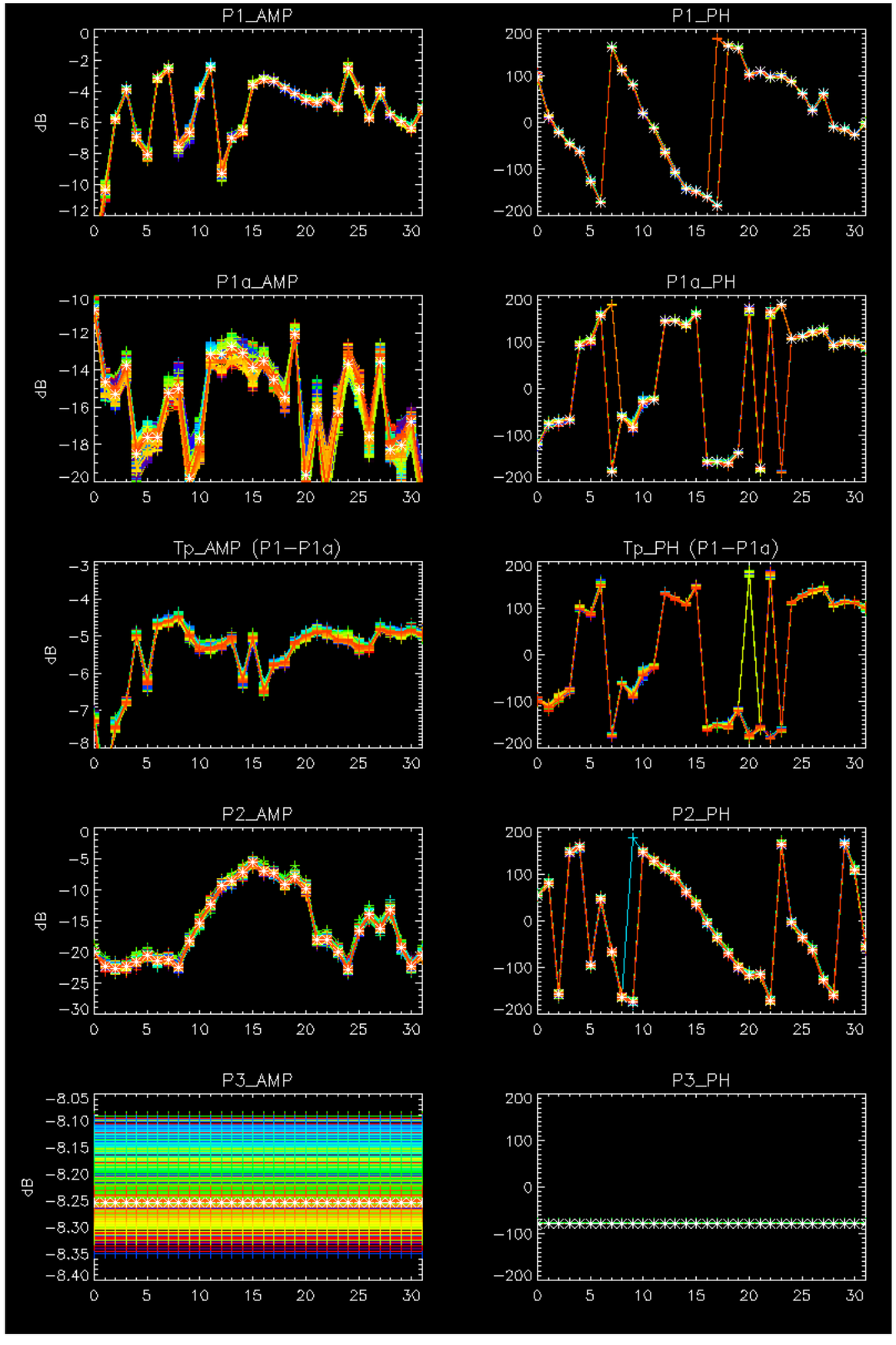

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
00
03
06
09
12
15
18
22−May
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2[dB]
−30
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
21−Apr
26−Apr
01−May
06−May
11−May
16−May
21−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
22−May
Average P1a [dB]
−10
−12
−14
−16
−18
−20
−22
00
03
06
09
12
15
18
22−May
Average P2[dB]
0
−5
−10
−15
−20
−25
00
03
06
09
12
15
18
22−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
22−May
rows: 3 7 11 15 19 22 26 30

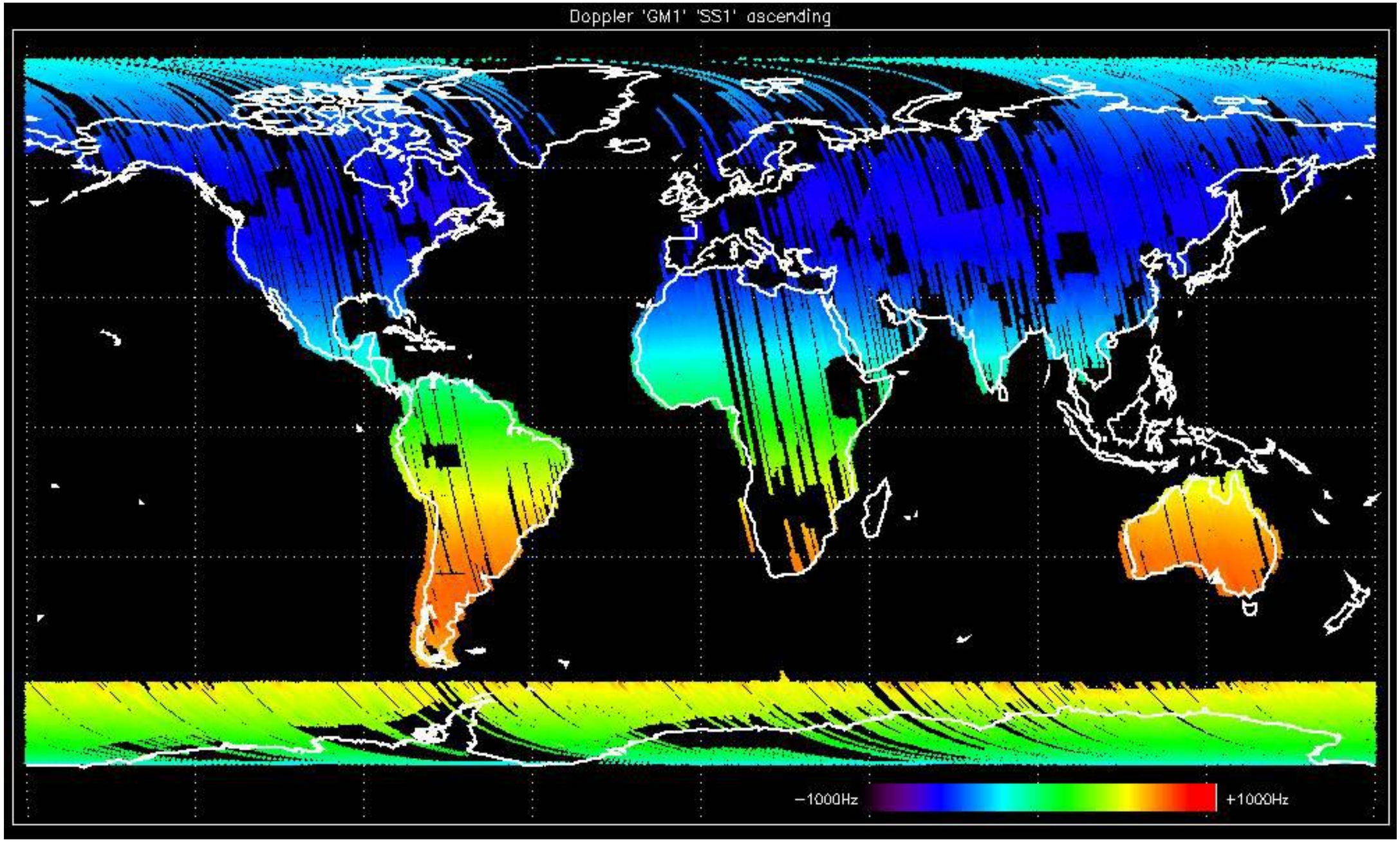
No anomalies observed.

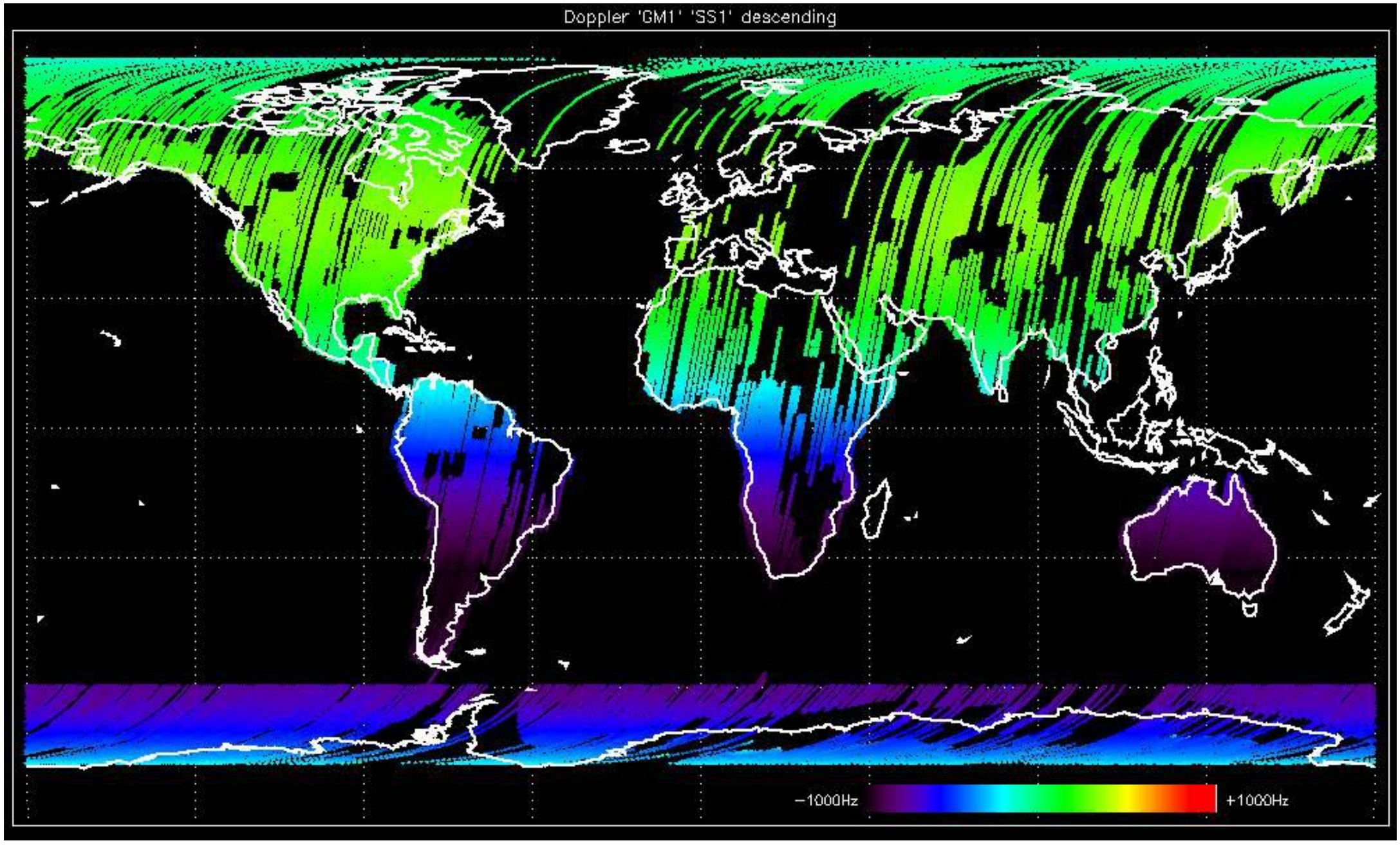

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

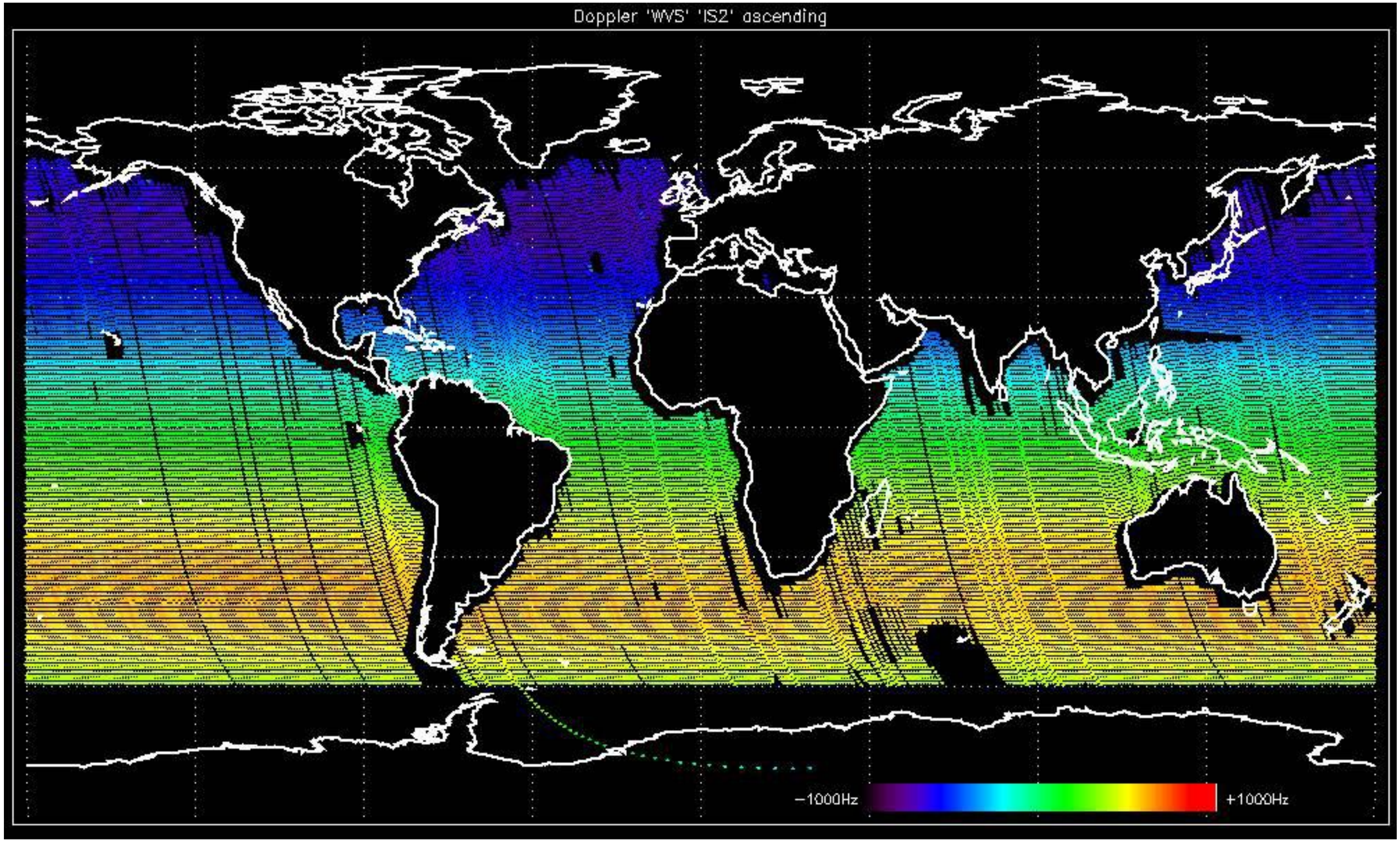

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

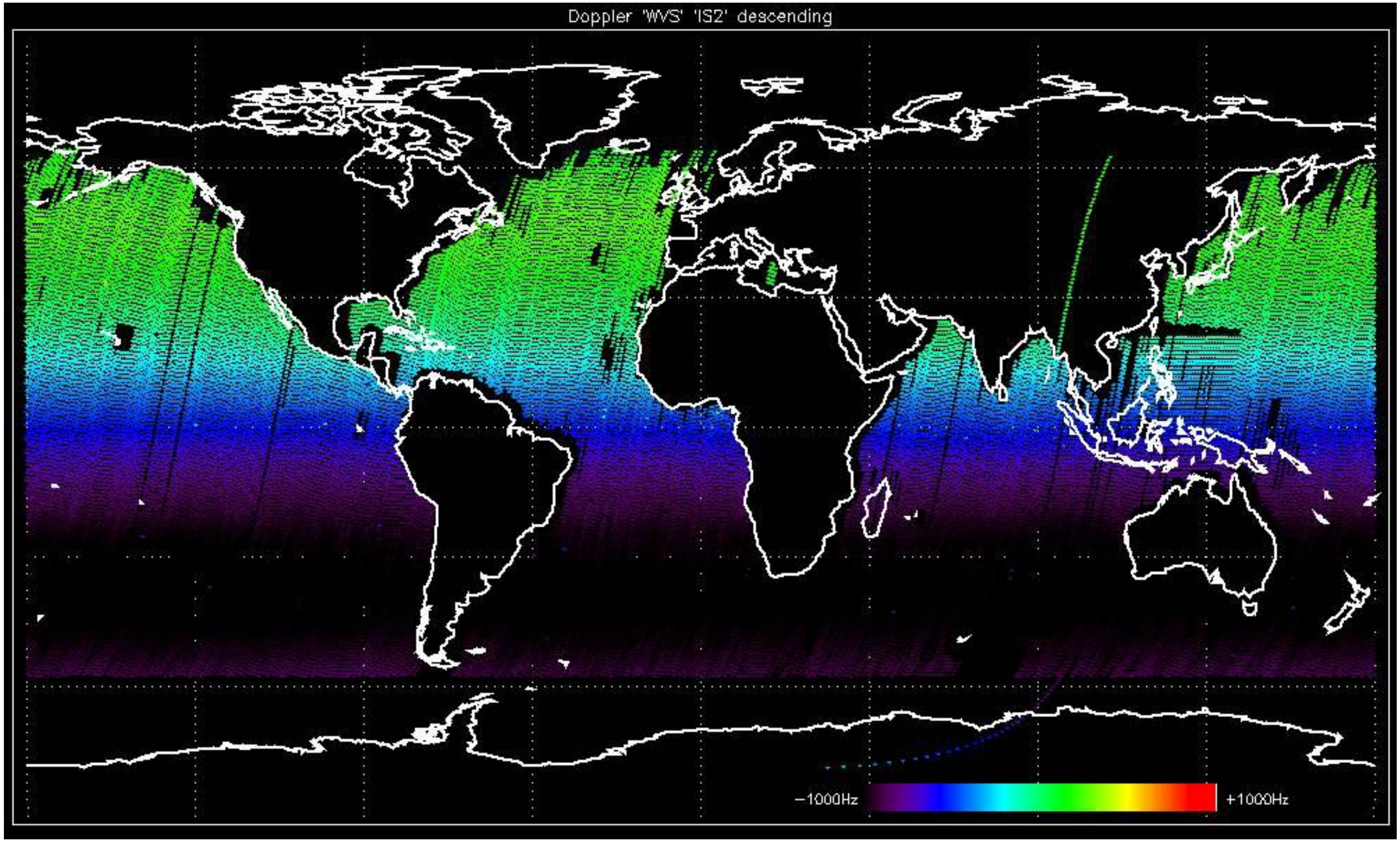
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

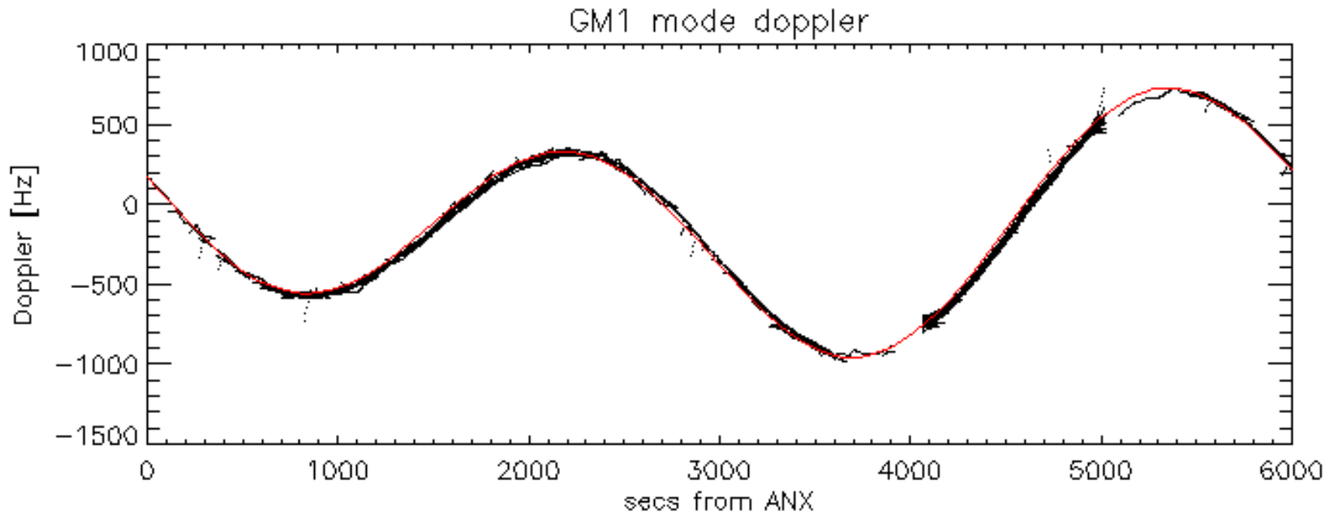
No anomalies observed Doppler evolution.
Doppler analysis performed over the last 35 days

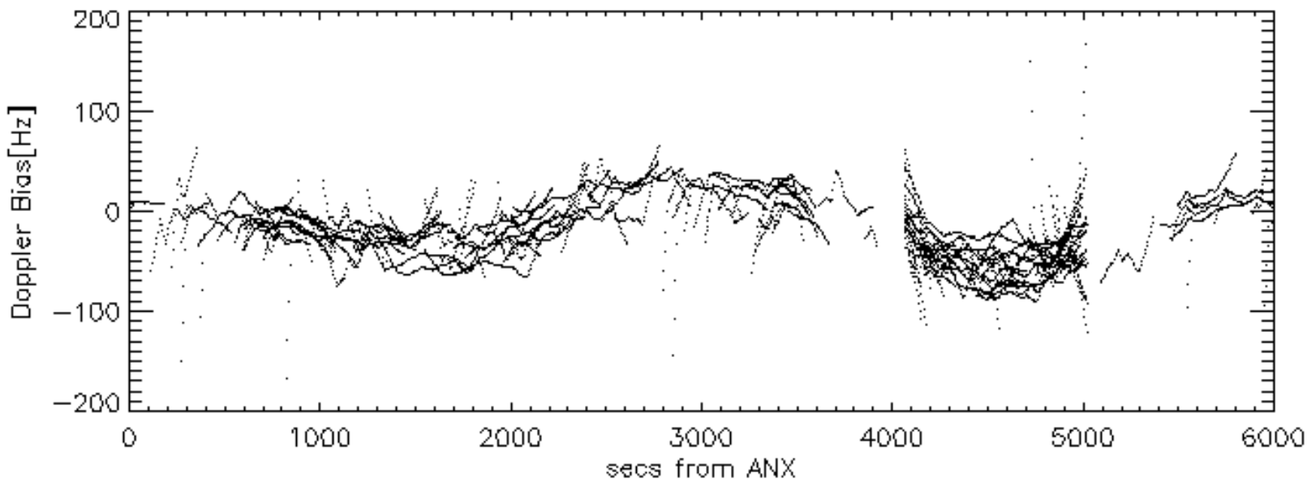

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

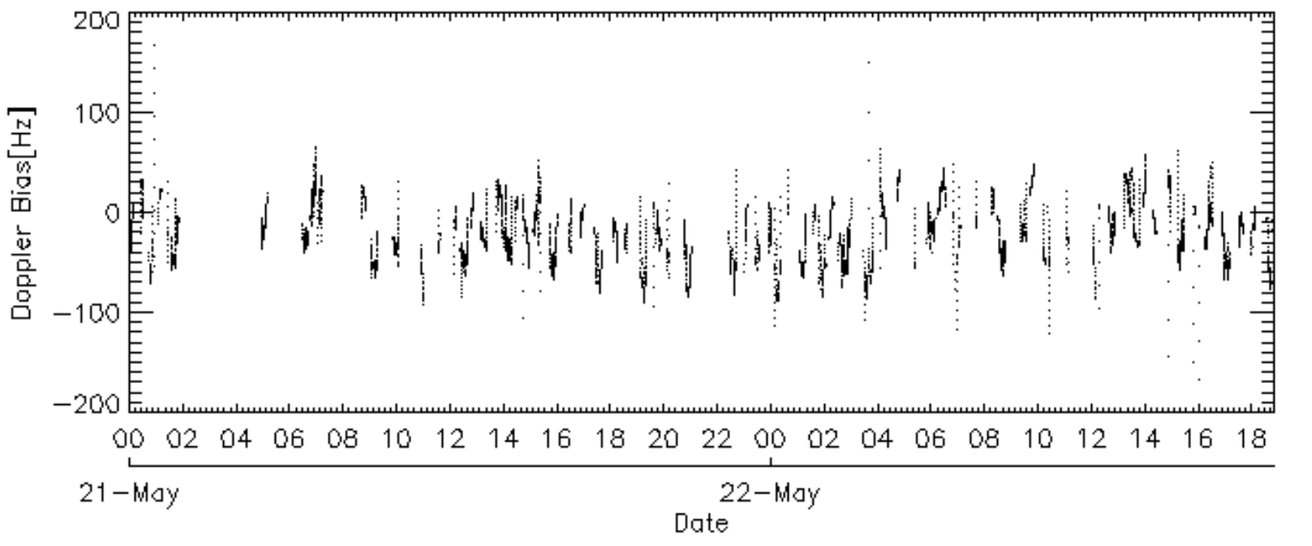

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

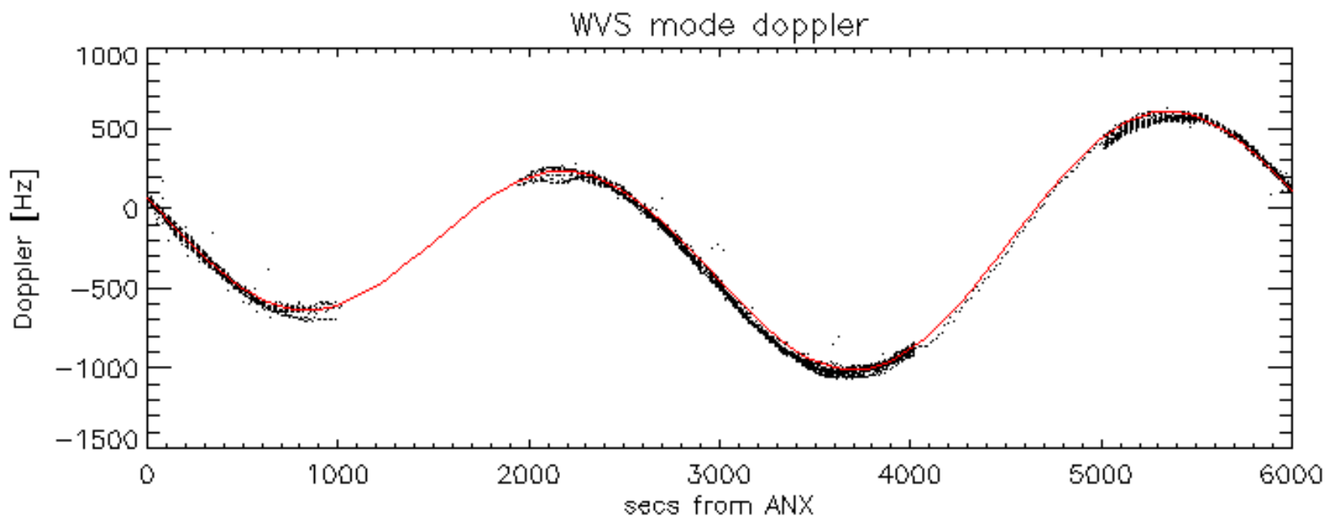

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

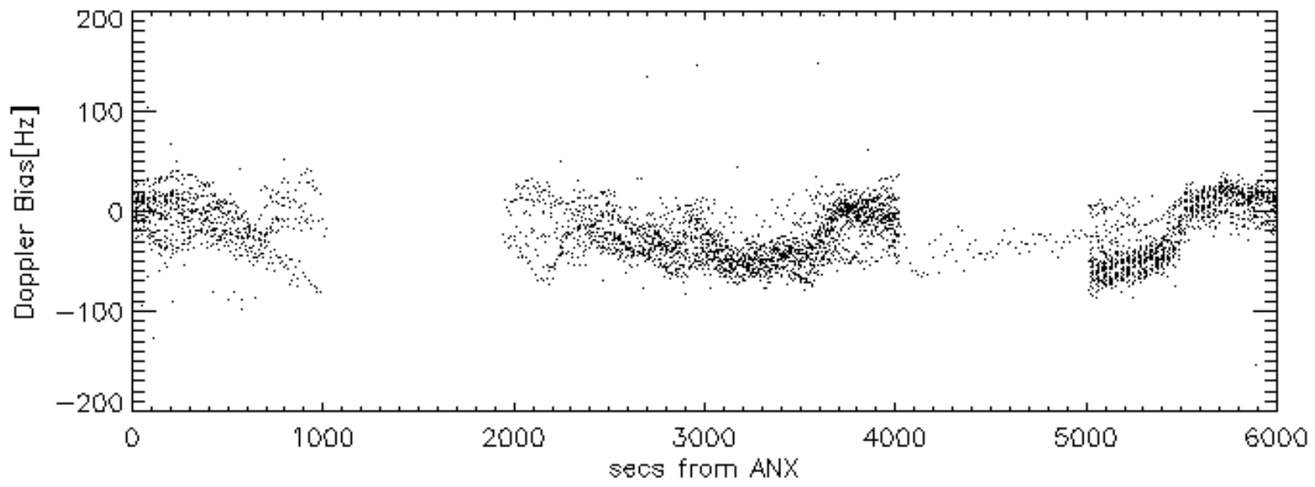

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

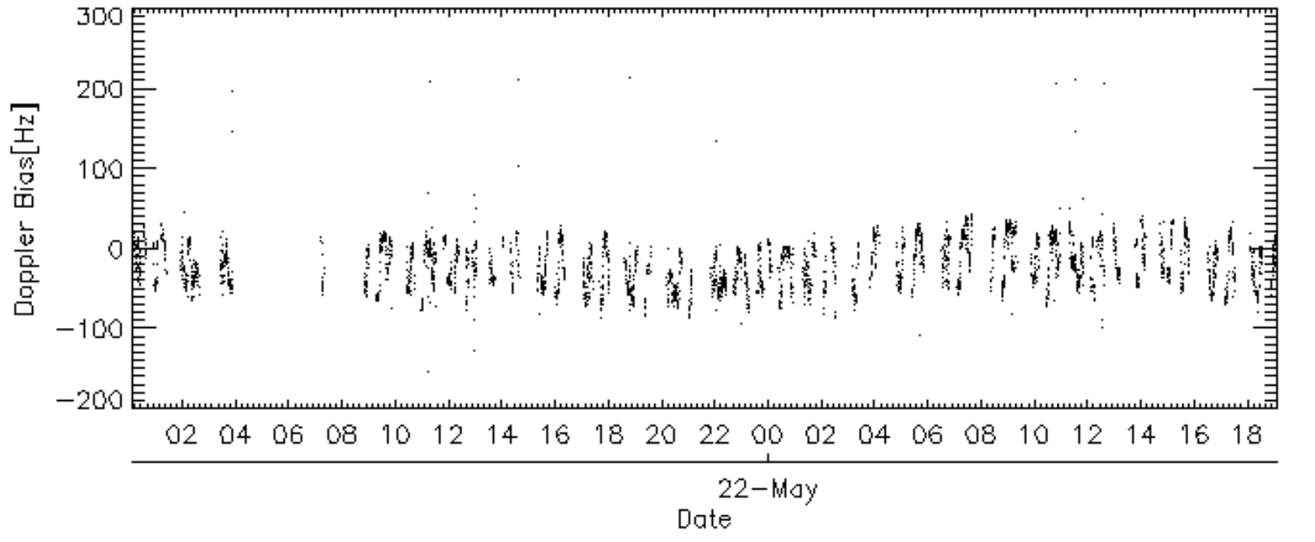

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

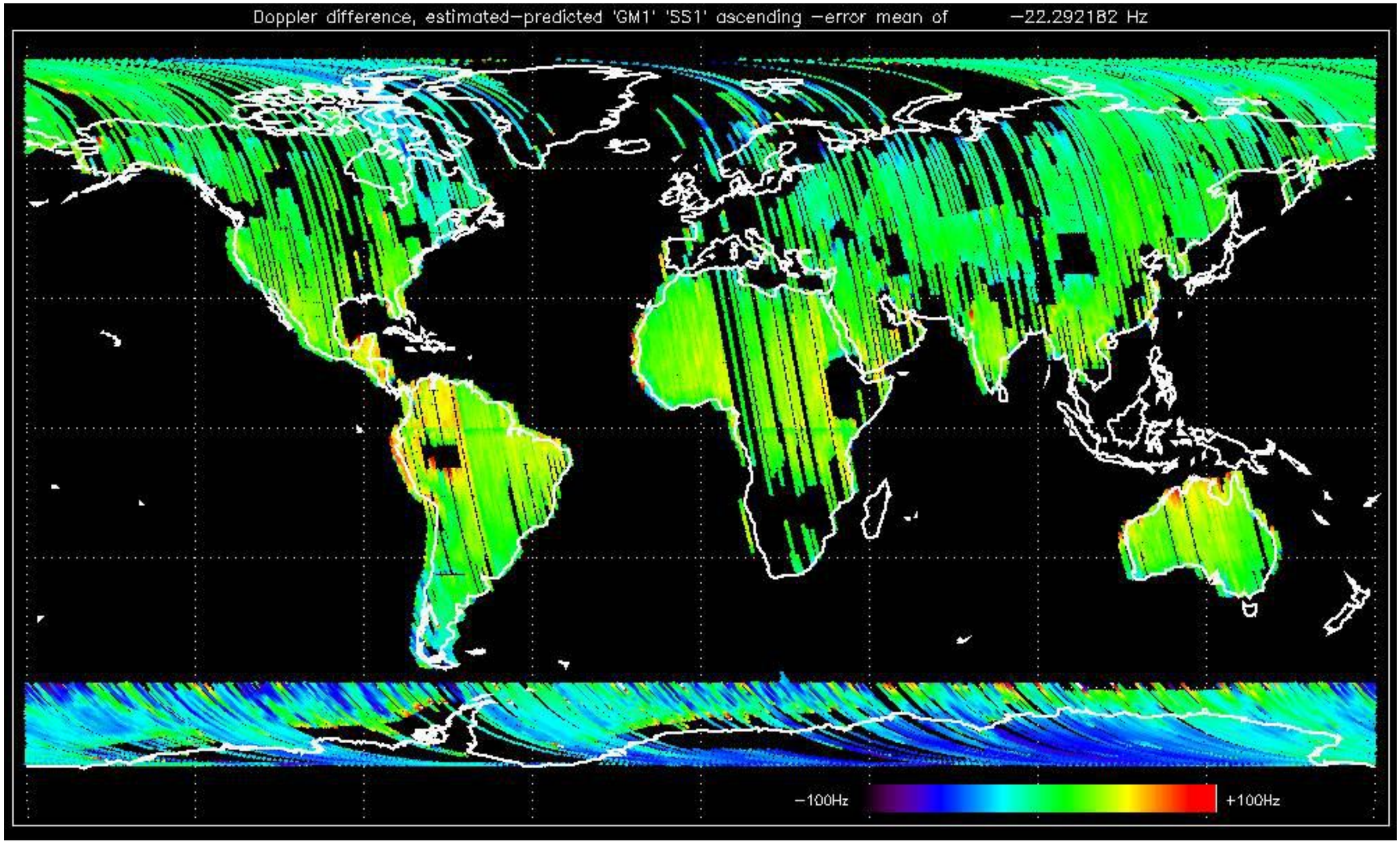

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

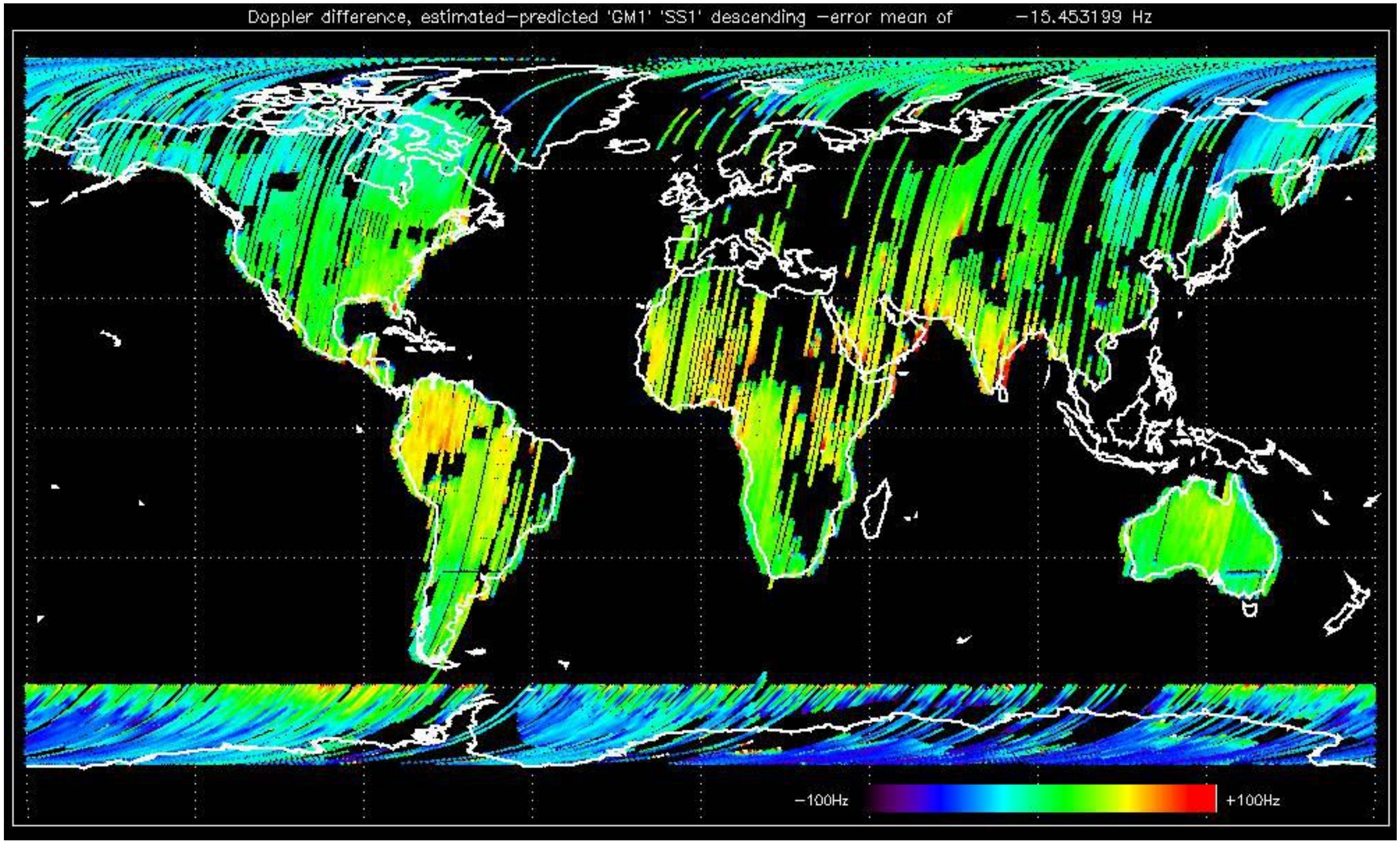

Doppler Bias[Hz]
200
100
0
−100
−200
00 02 04 06 08 10 12 14 16 18 20 22 00 02 04 06 08 10 12 14 16 18
21−May
22−May
Date

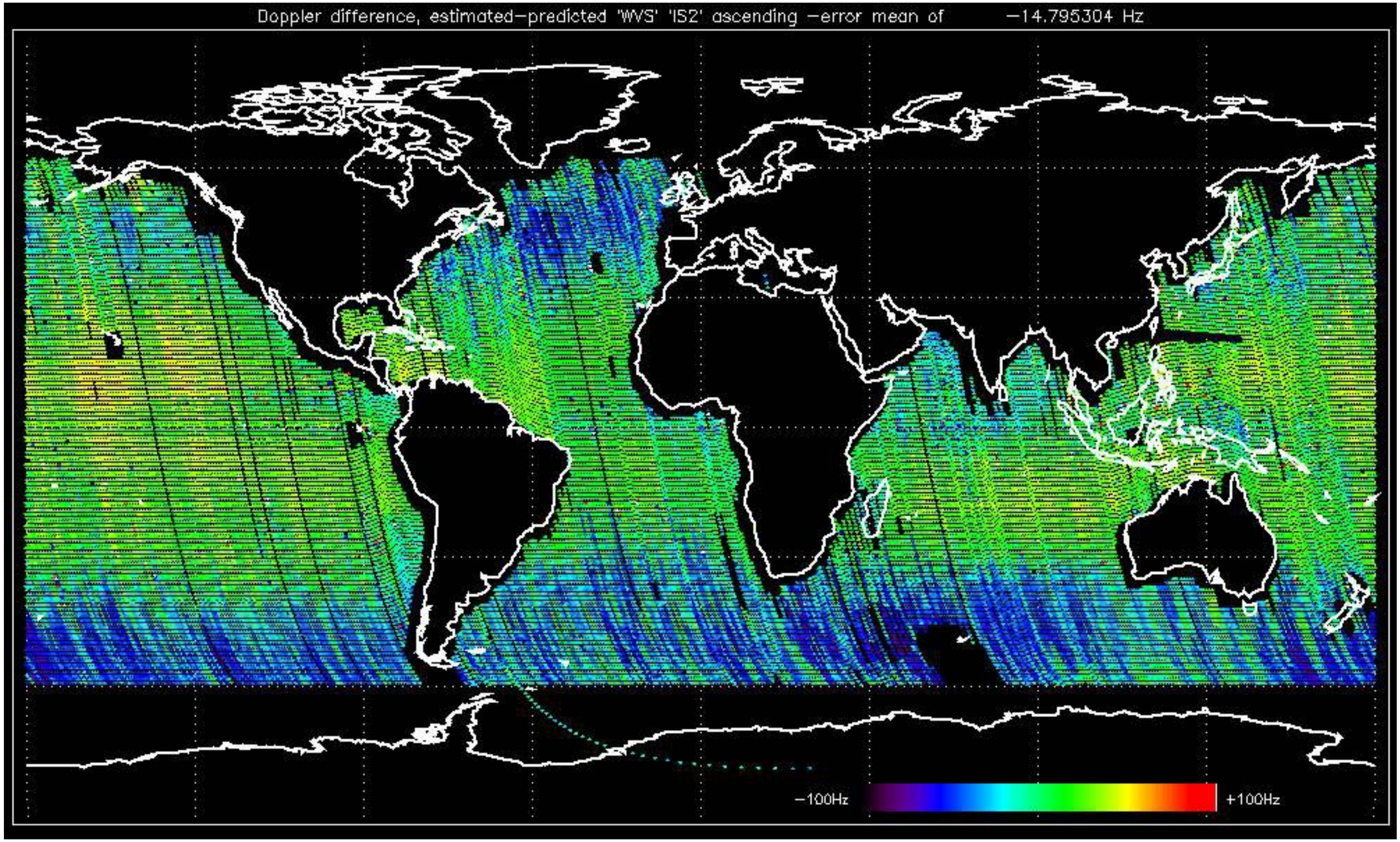

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

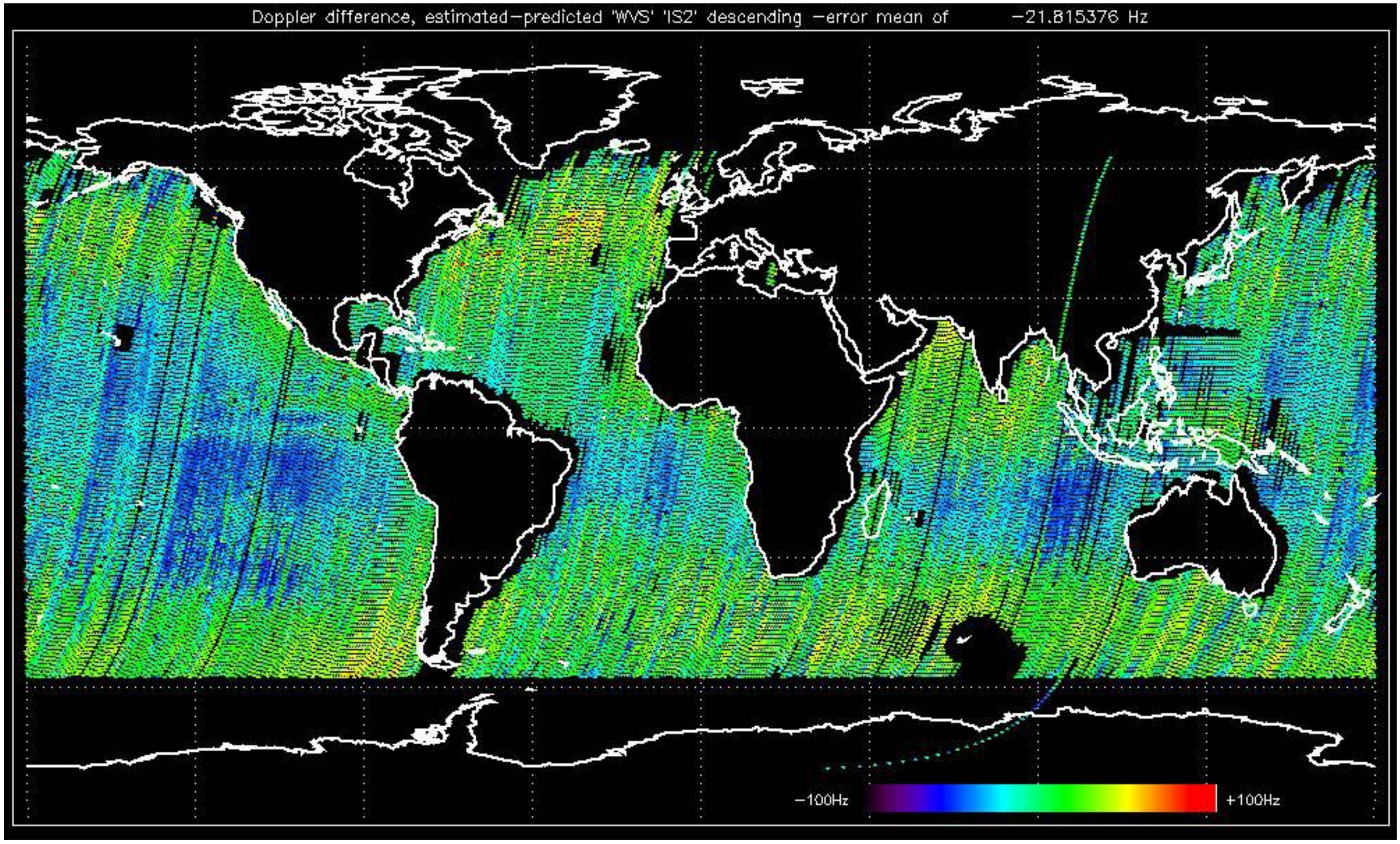

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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
22−May
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −22.292182 Hz
−100Hz
+100Hz

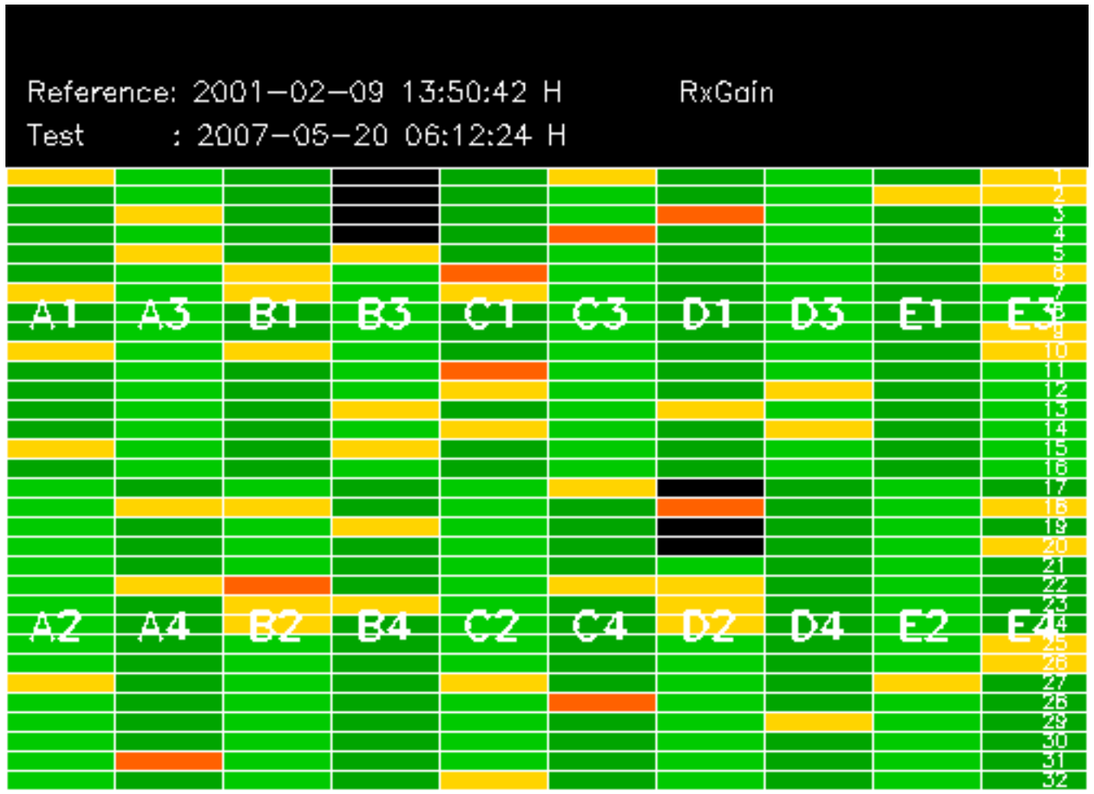

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -15.453199 Hz
-100Hz
+100Hz

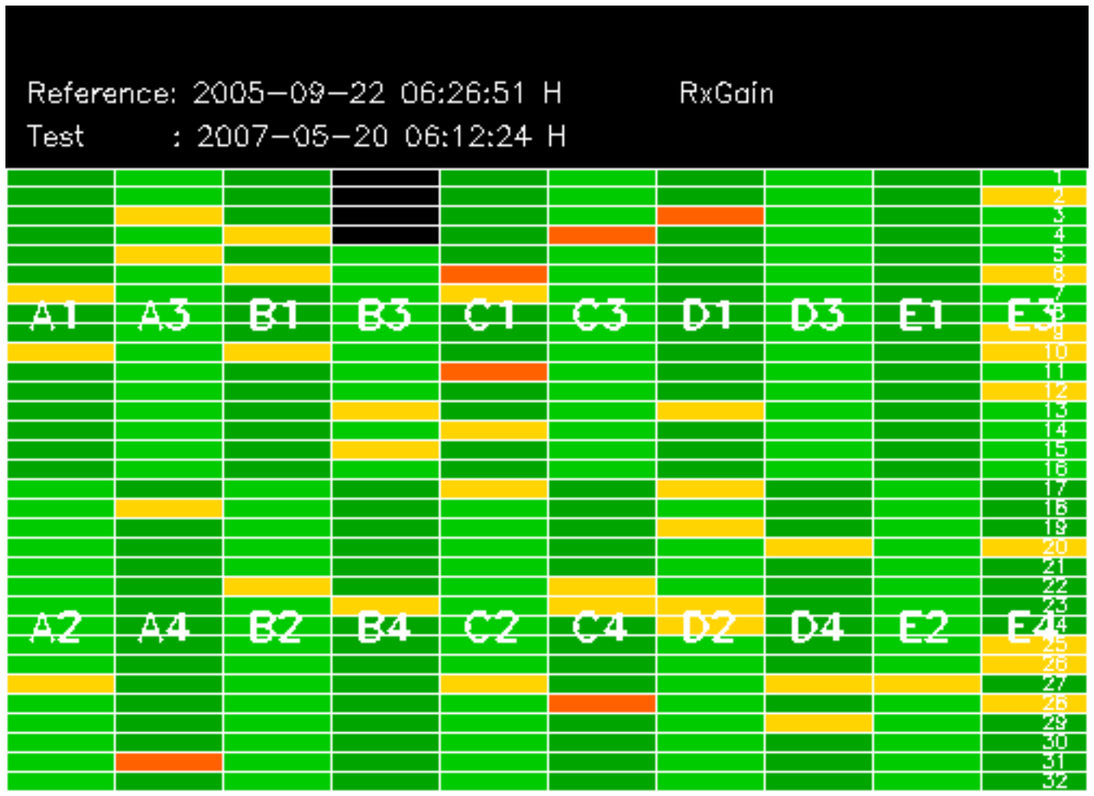

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −14.795304 Hz
−100Hz
+100Hz

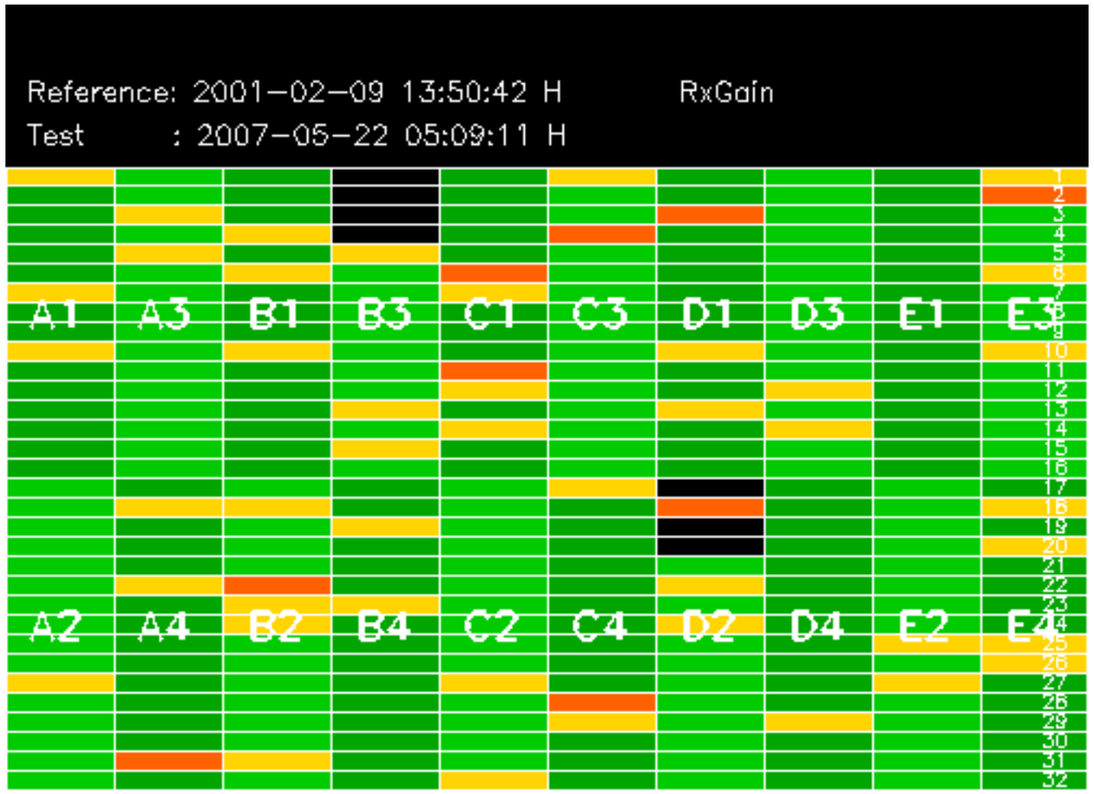

Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −21.815376 Hz
−100Hz
+100Hz

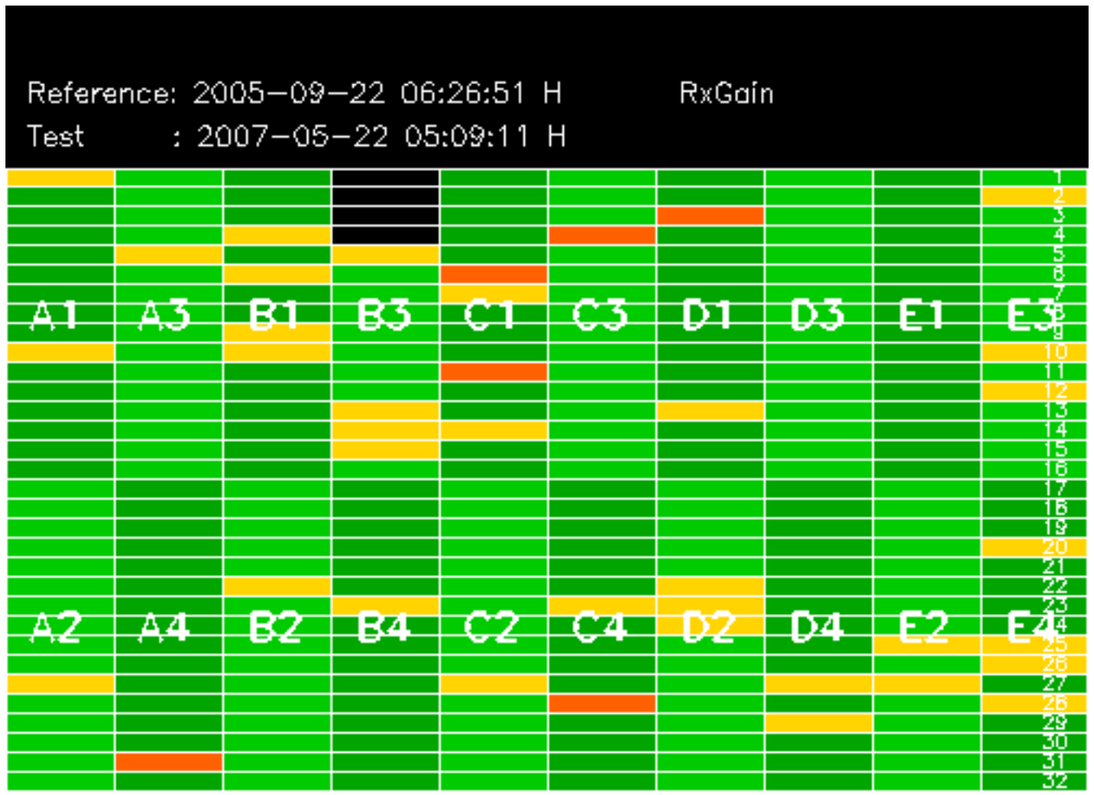
No anomalies observed on available MS products:

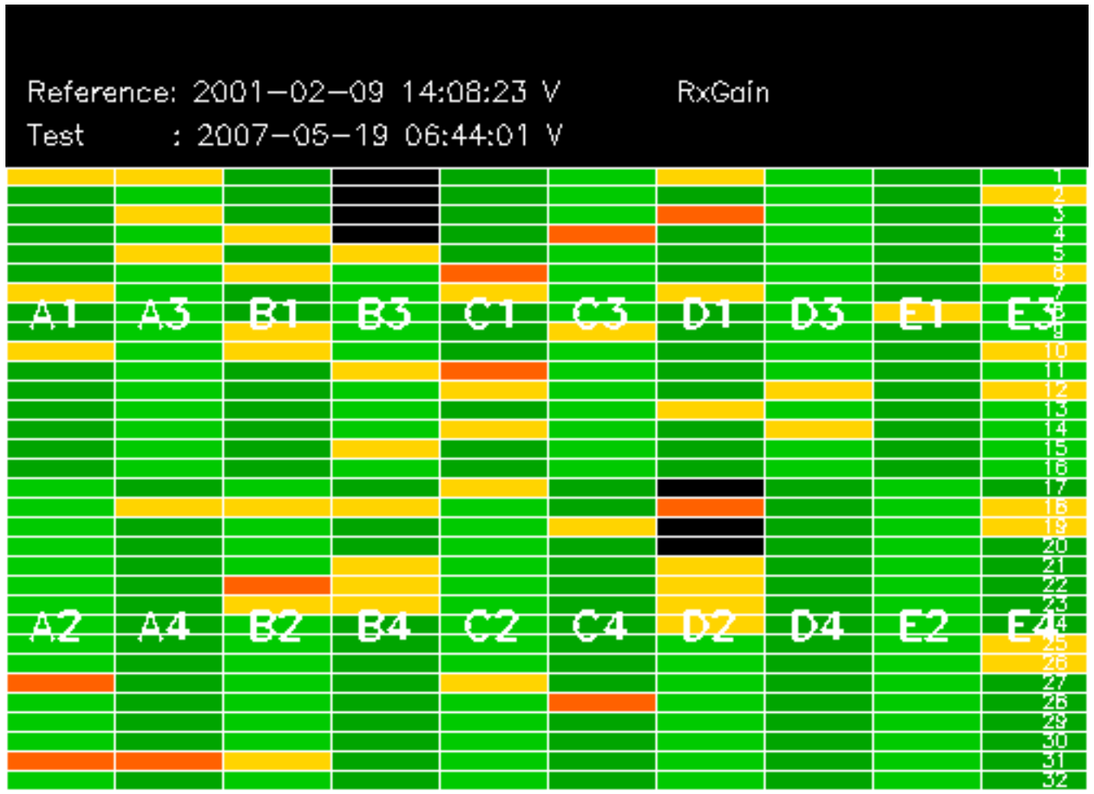
No anomalies observed.

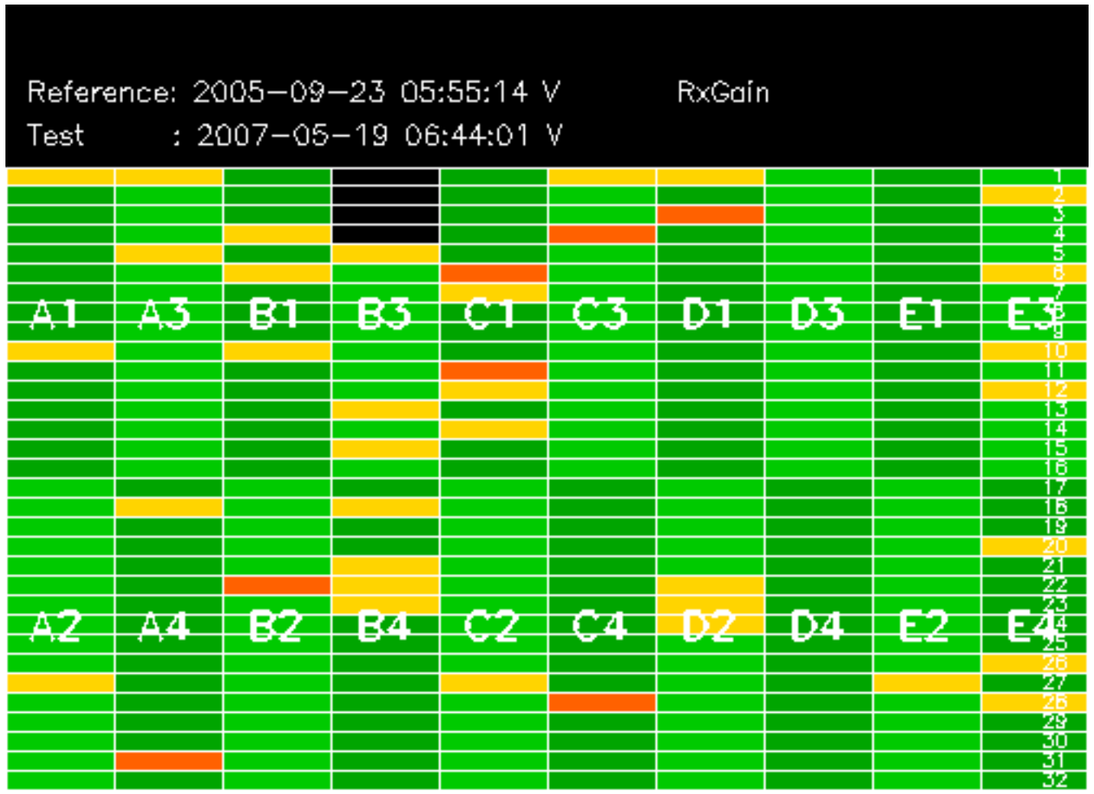

Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2007-05-20 06:12:24 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

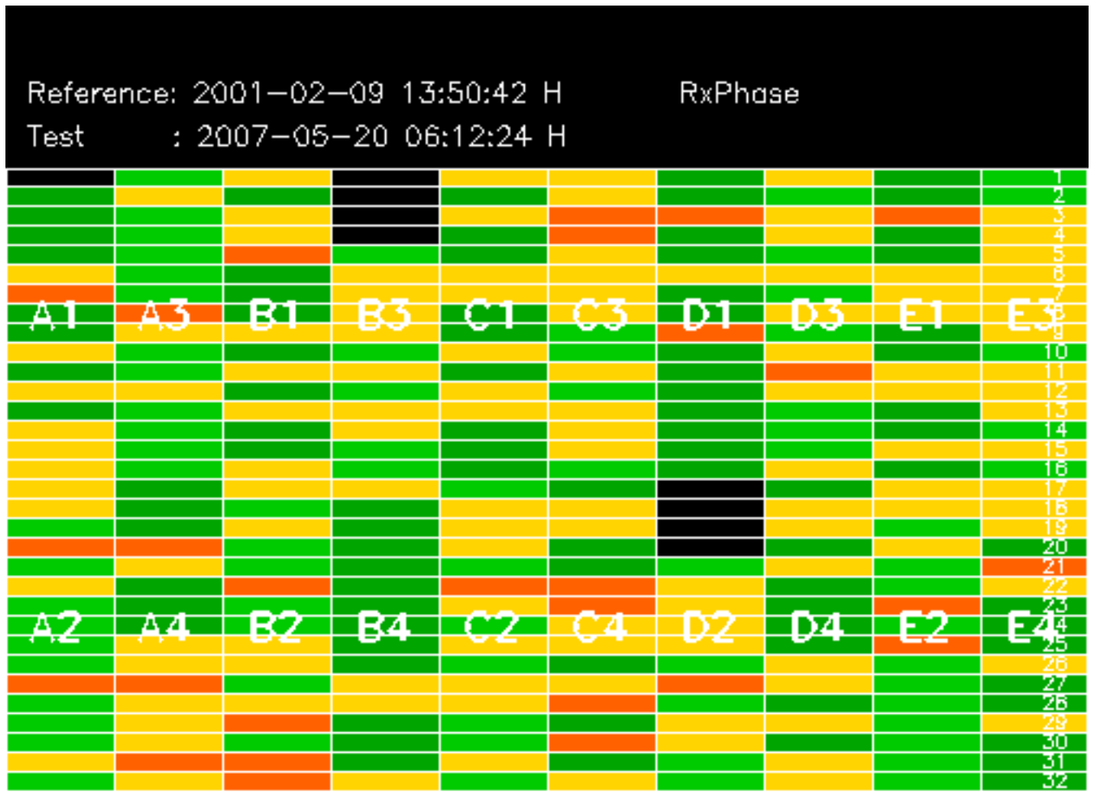

Reference: 2005-09-22 06:26:51 H
Test : 2007-05-20 06:12:24 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

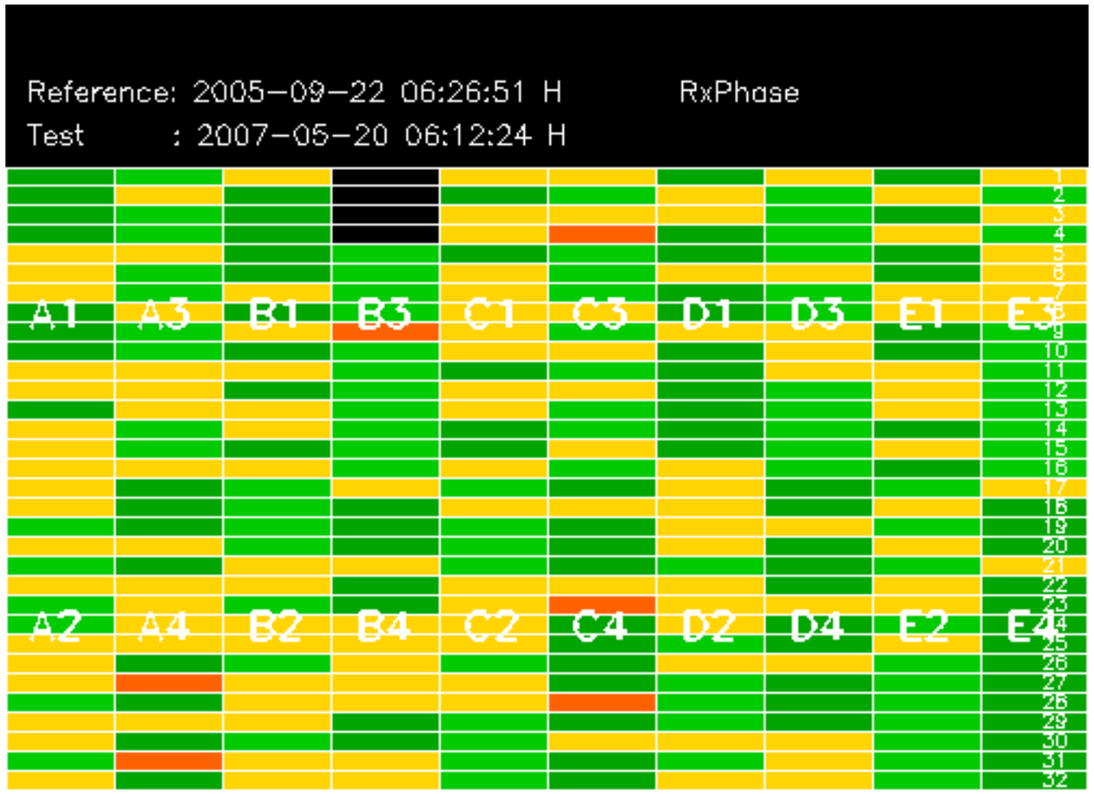

Reference: 2001-02-09 13:50:42 H
Test : 2007-05-22 05:09:11 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

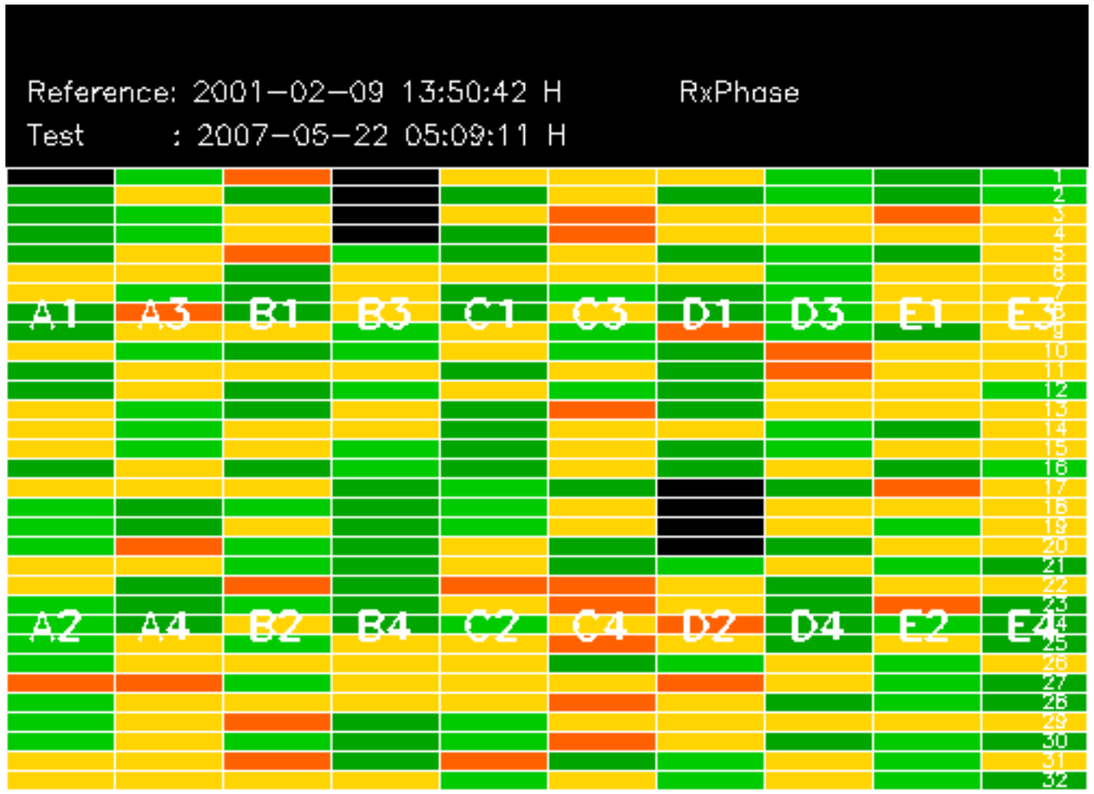

Reference: 2005-09-22 06:26:51 H
Test : 2007-05-22 05:09:11 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2007-05-19 06:44:01 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

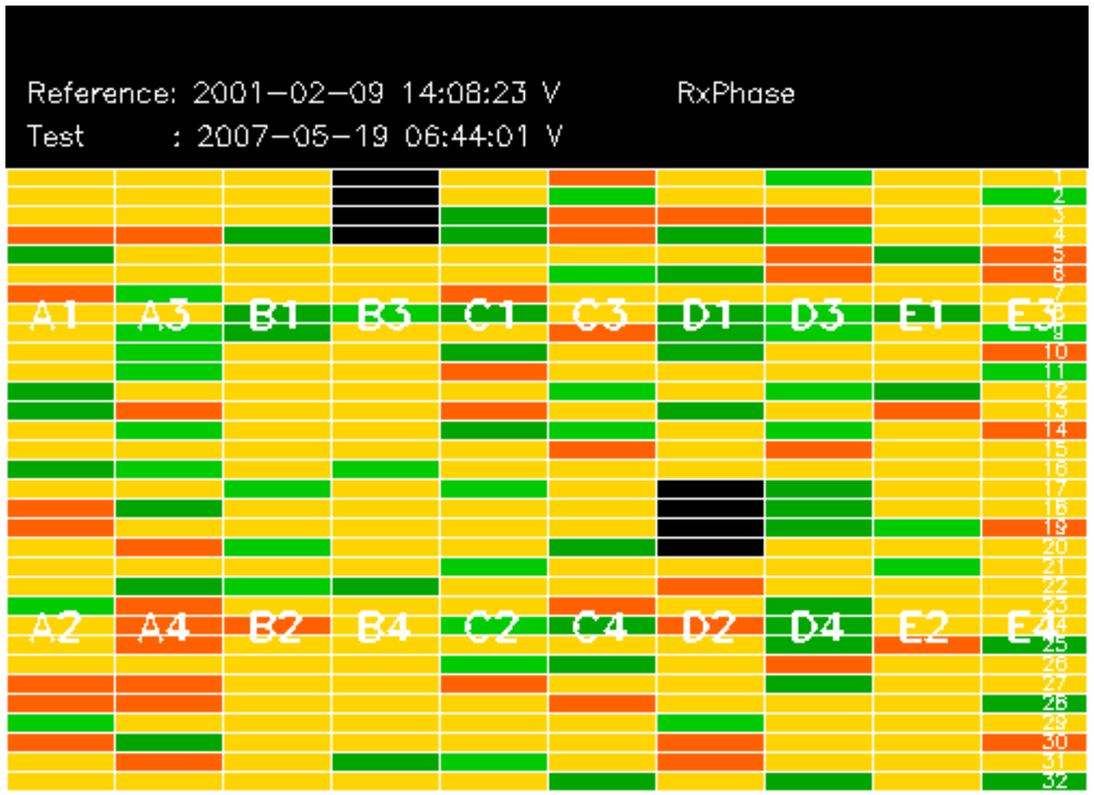

Reference: 2005-09-23 05:55:14 V
Test : 2007-05-19 06:44:01 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

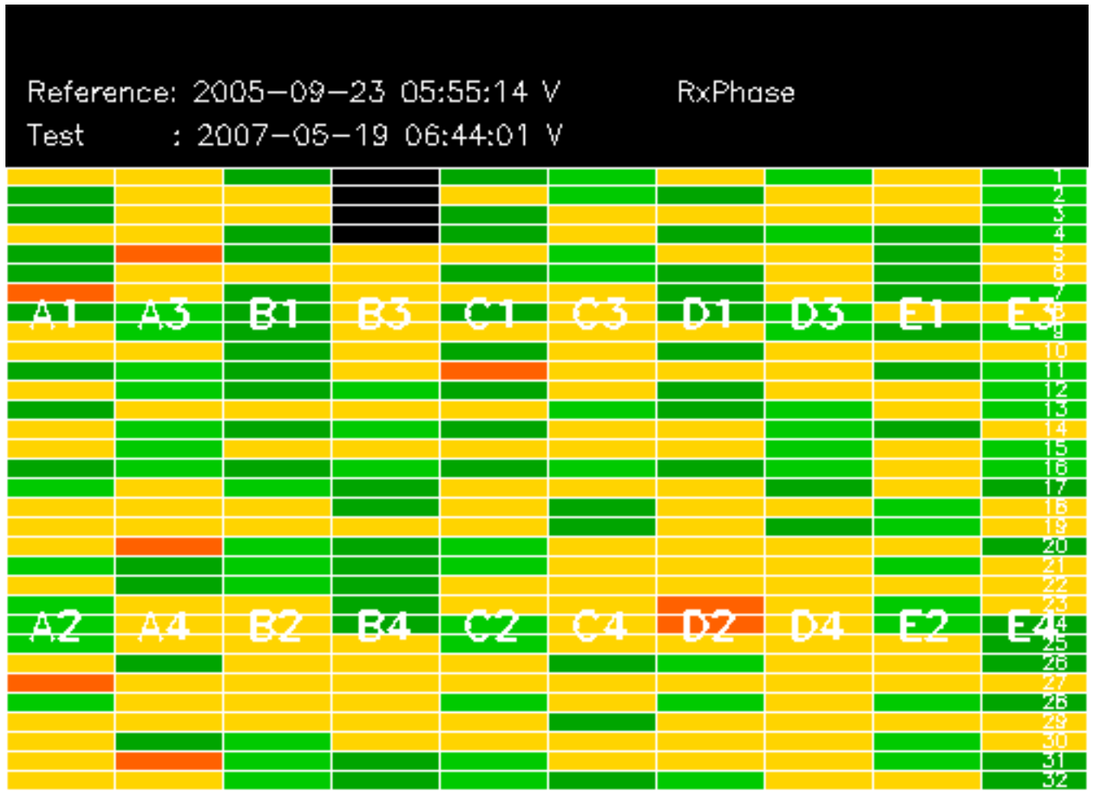

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2007-05-20 06:12:24 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

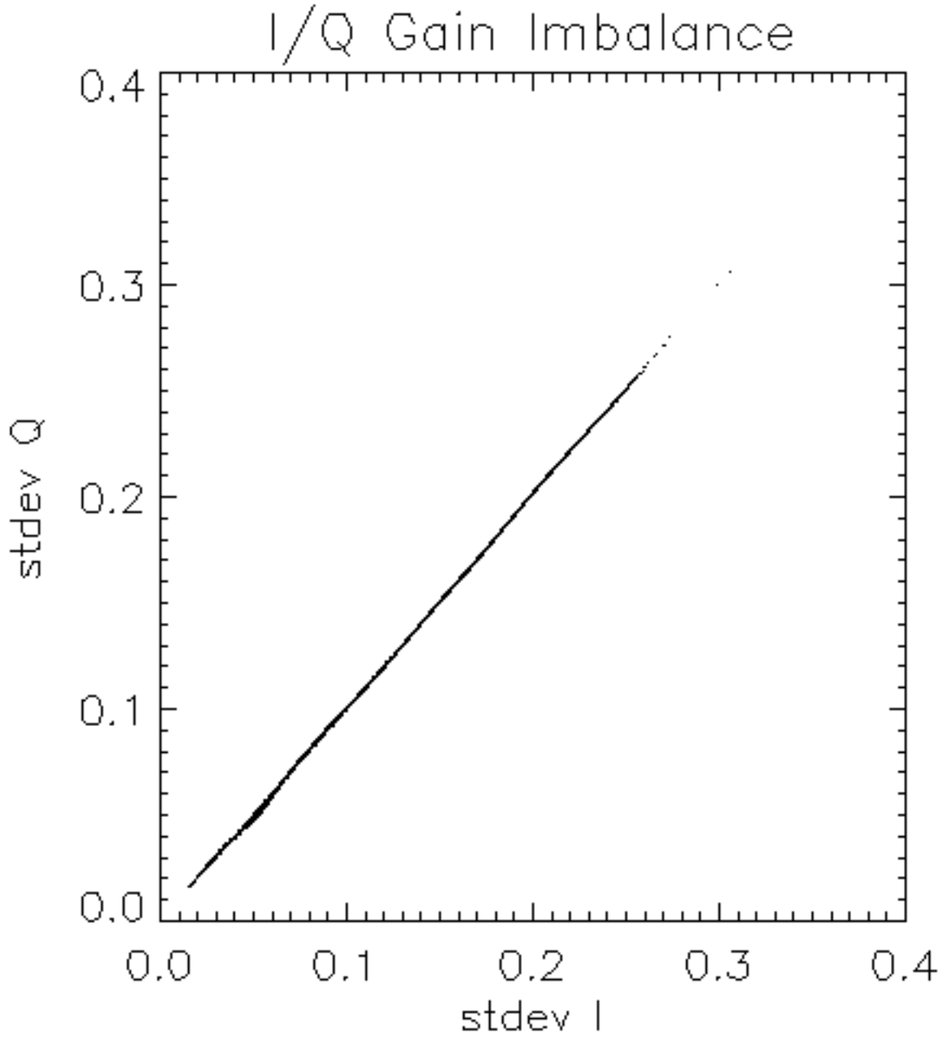

Reference: 2005-09-22 06:26:51 H
RxPhase
Test : 2007-05-20 06:12:24 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

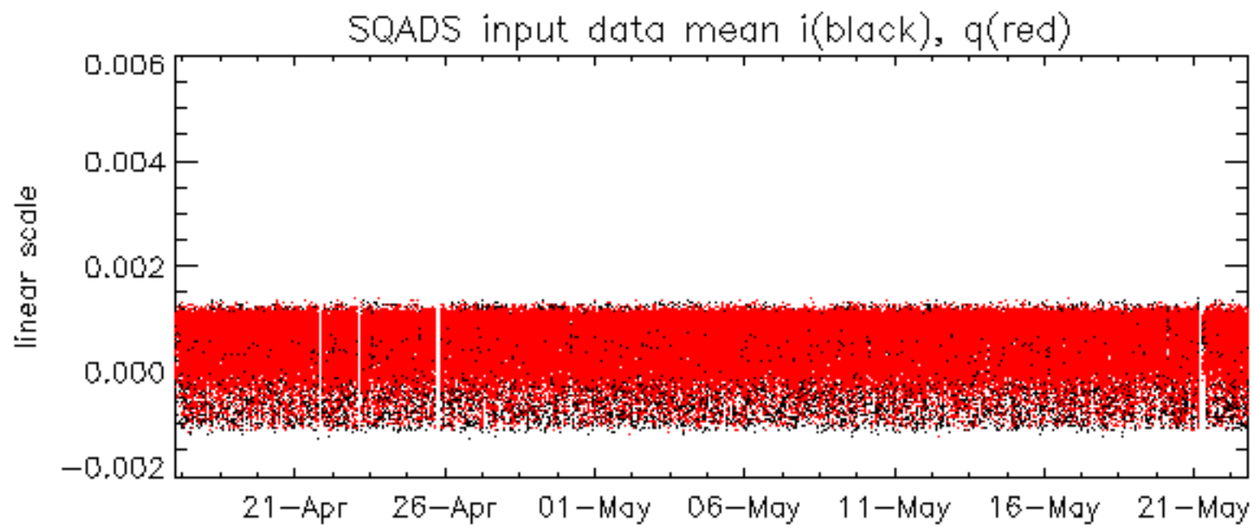

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2007-05-22 05:09:11 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

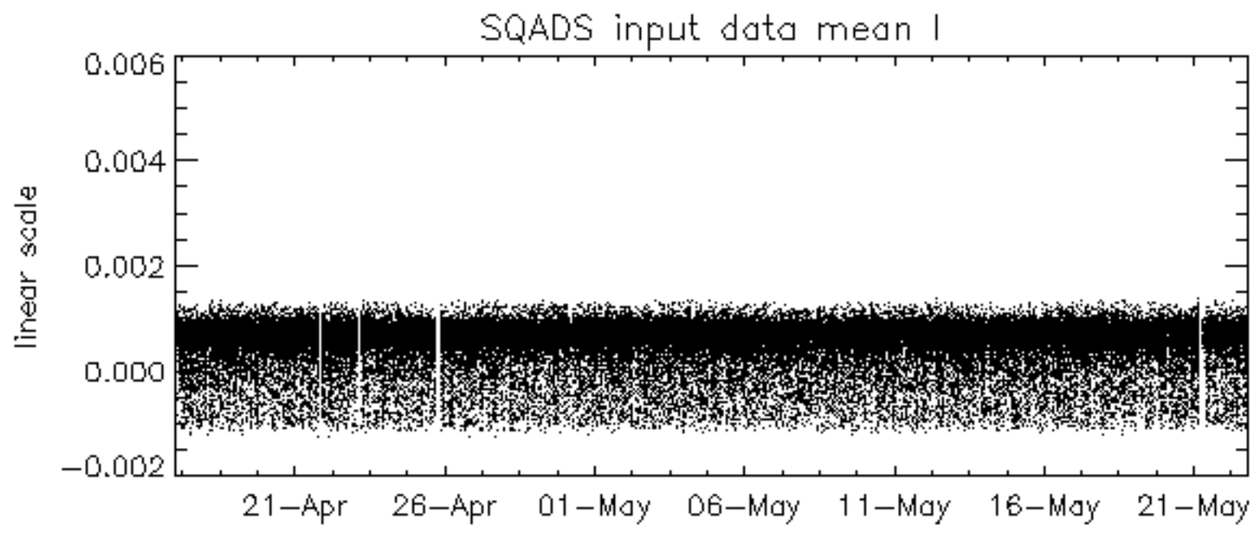

Reference: 2005-09-22 06:26:51 H
RxPhase
Test : 2007-05-22 05:09:11 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

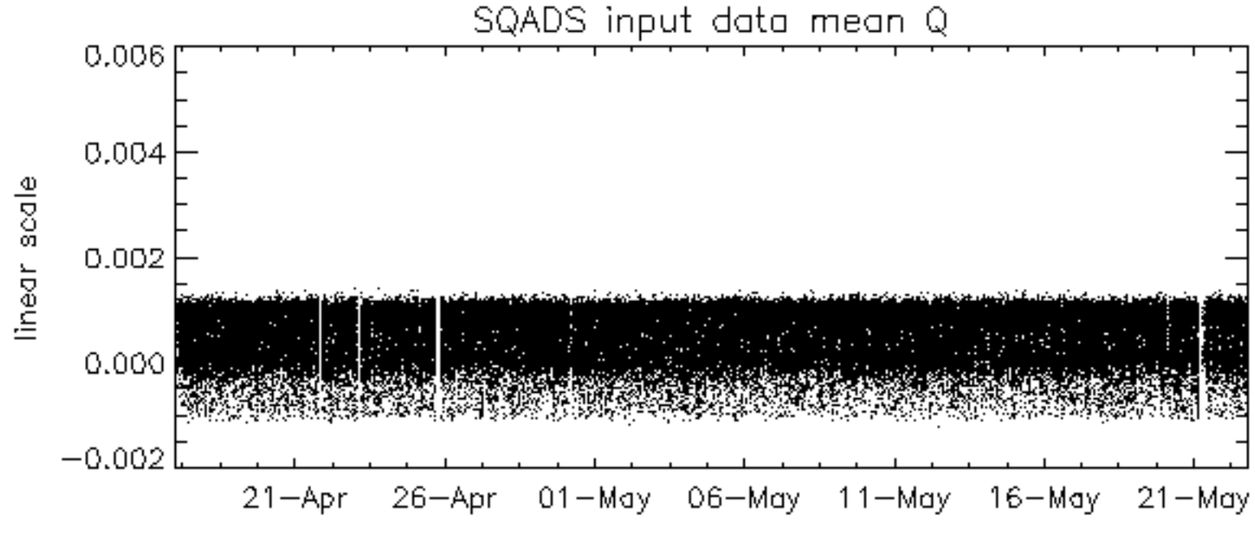

Reference: 2001-02-09 14:08:23 V
Test : 2007-05-19 06:44:01 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

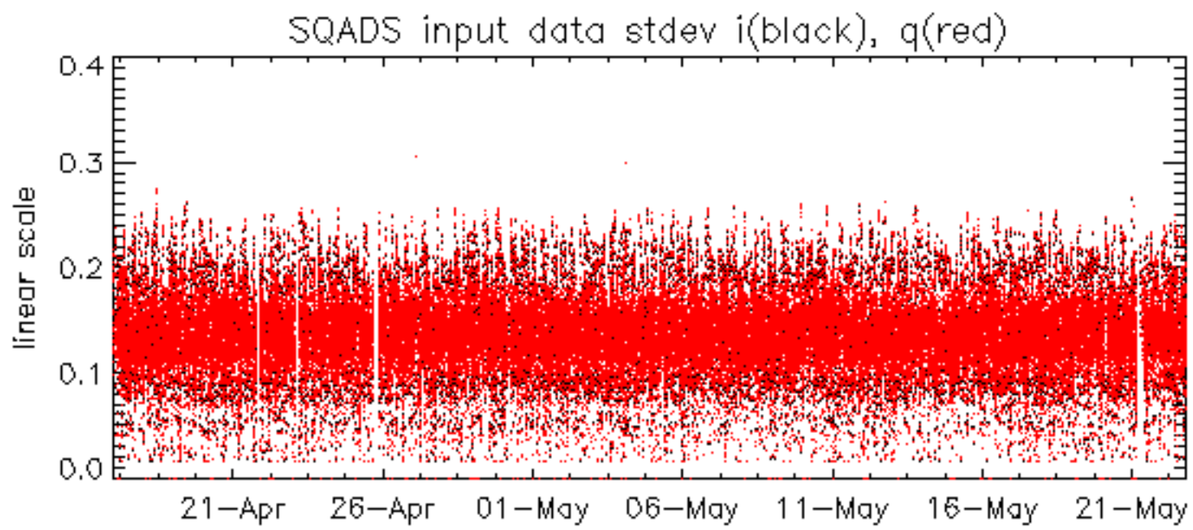

Reference: 2005-09-23 05:55:14 V
Test : 2007-05-19 06:44:01 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

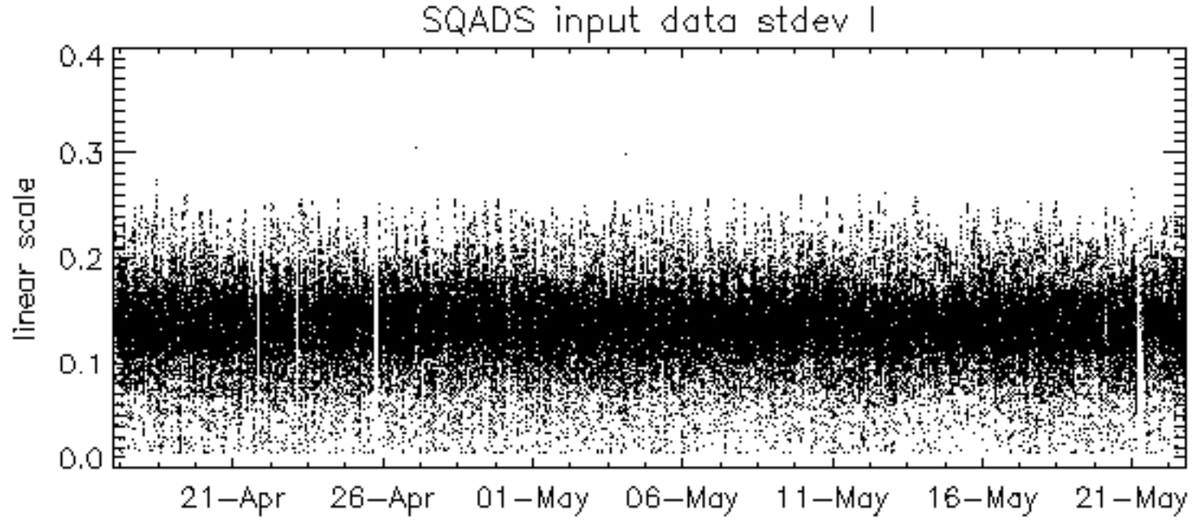

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

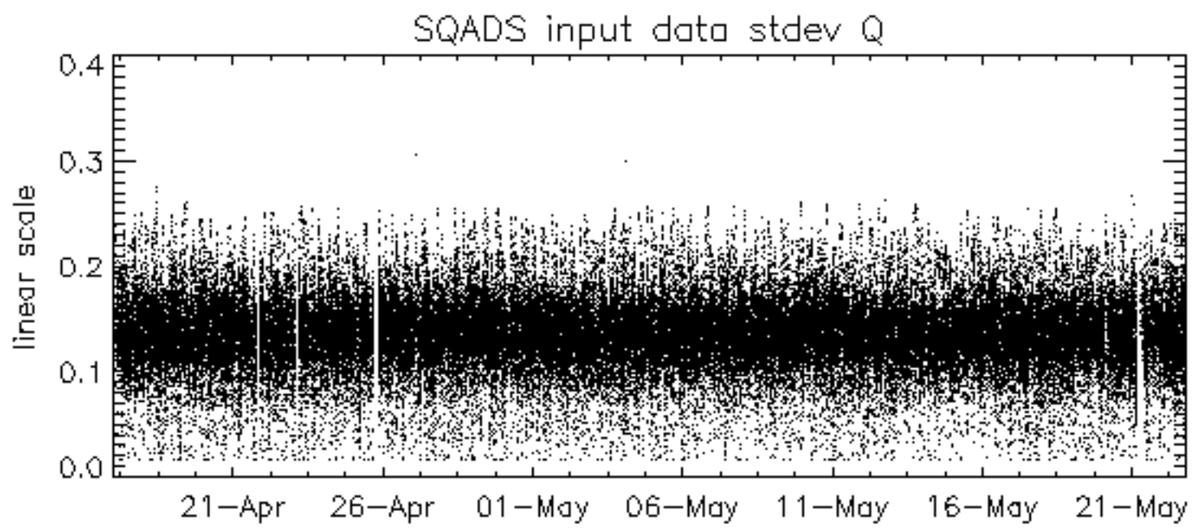

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Apr
26−Apr
01−May
06−May
11−May
16−May
21−May

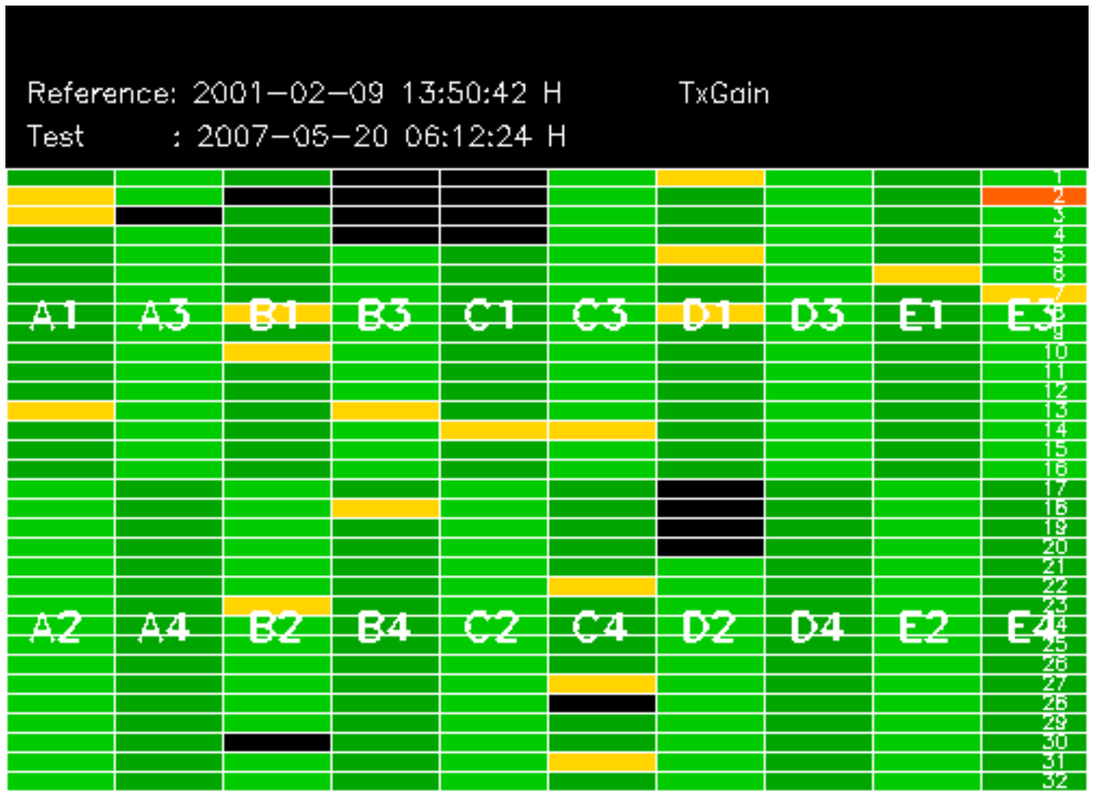

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Apr
26−Apr
01−May
06−May
11−May
16−May
21−May

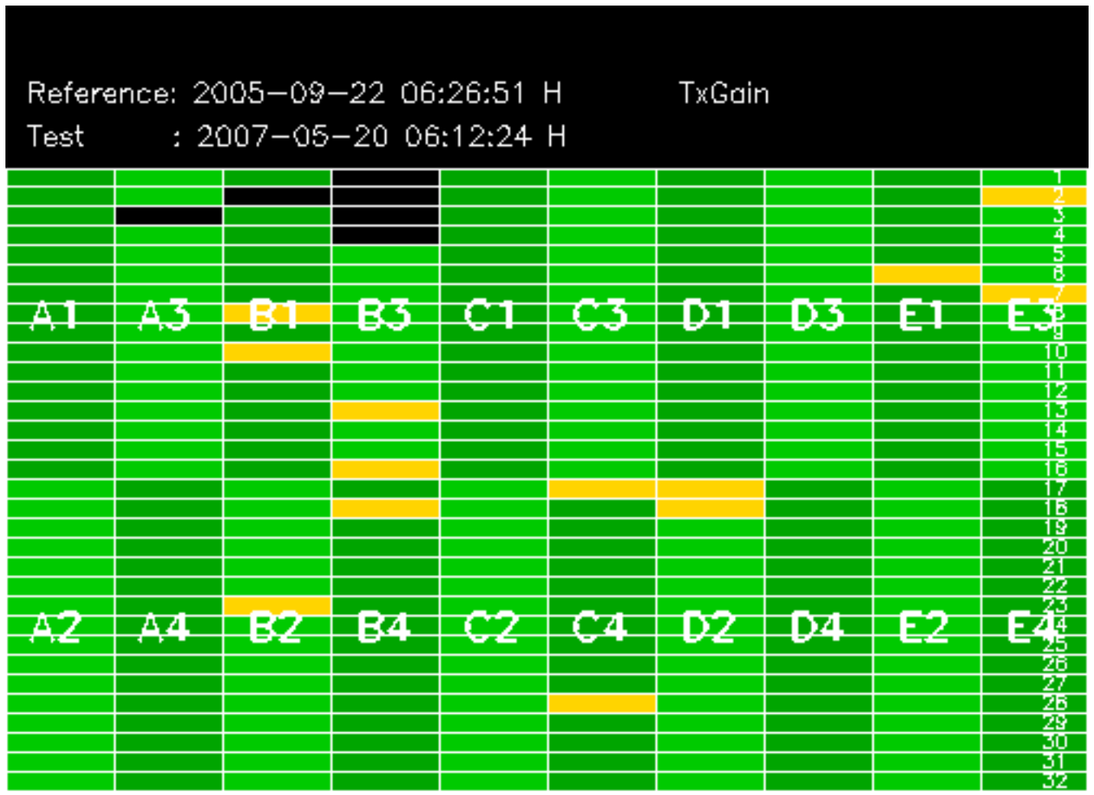

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Apr
26−Apr
01−May
06−May
11−May
16−May
21−May

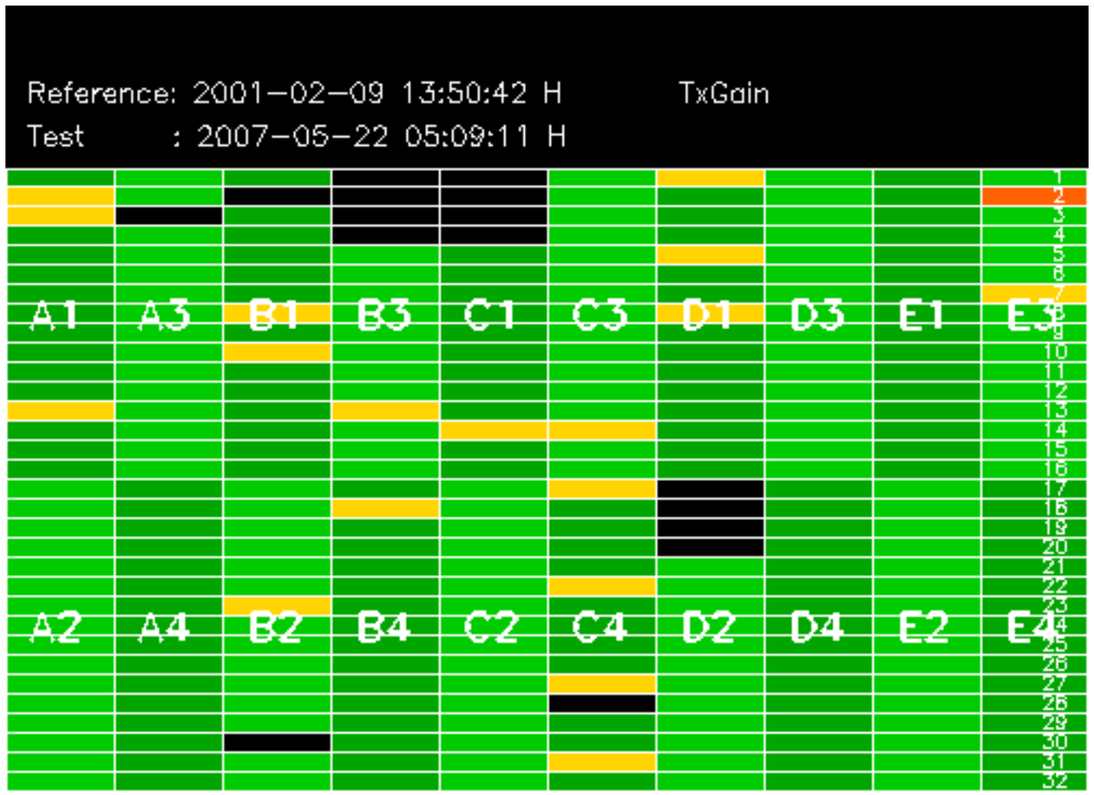

SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
21−Apr
26−Apr
01−May
06−May
11−May
16−May
21−May

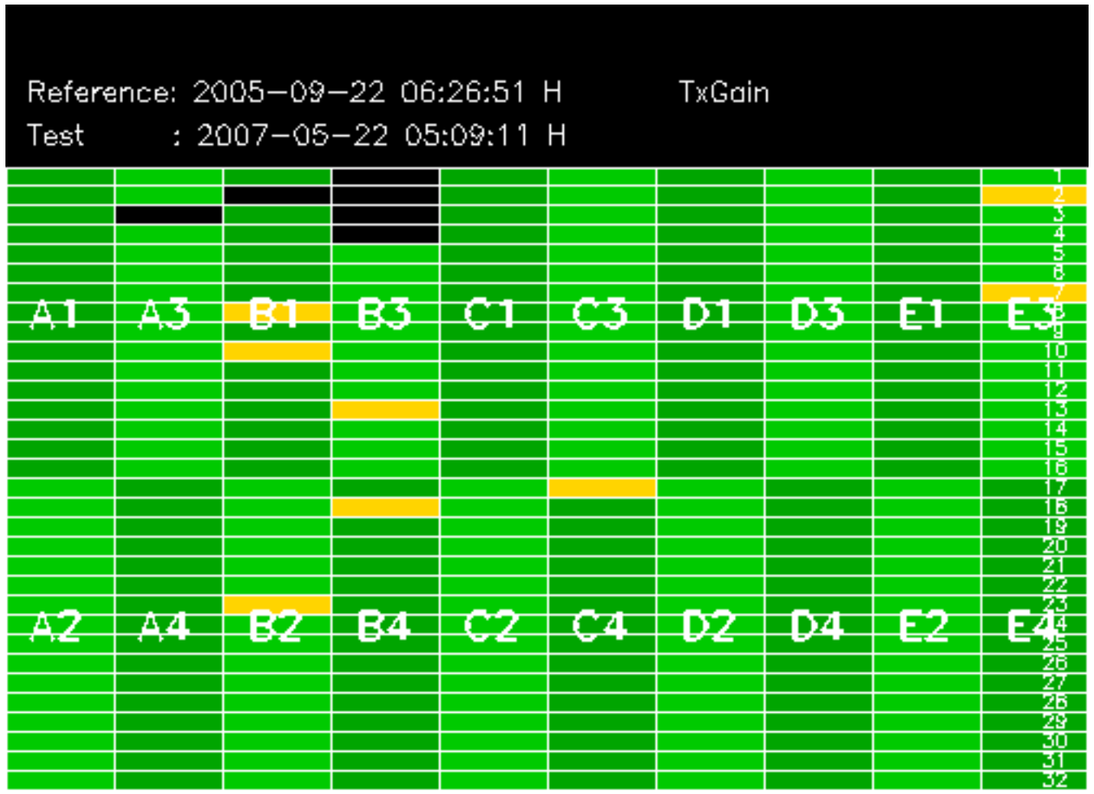

SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
21−Apr
26−Apr
01−May
06−May
11−May
16−May
21−May

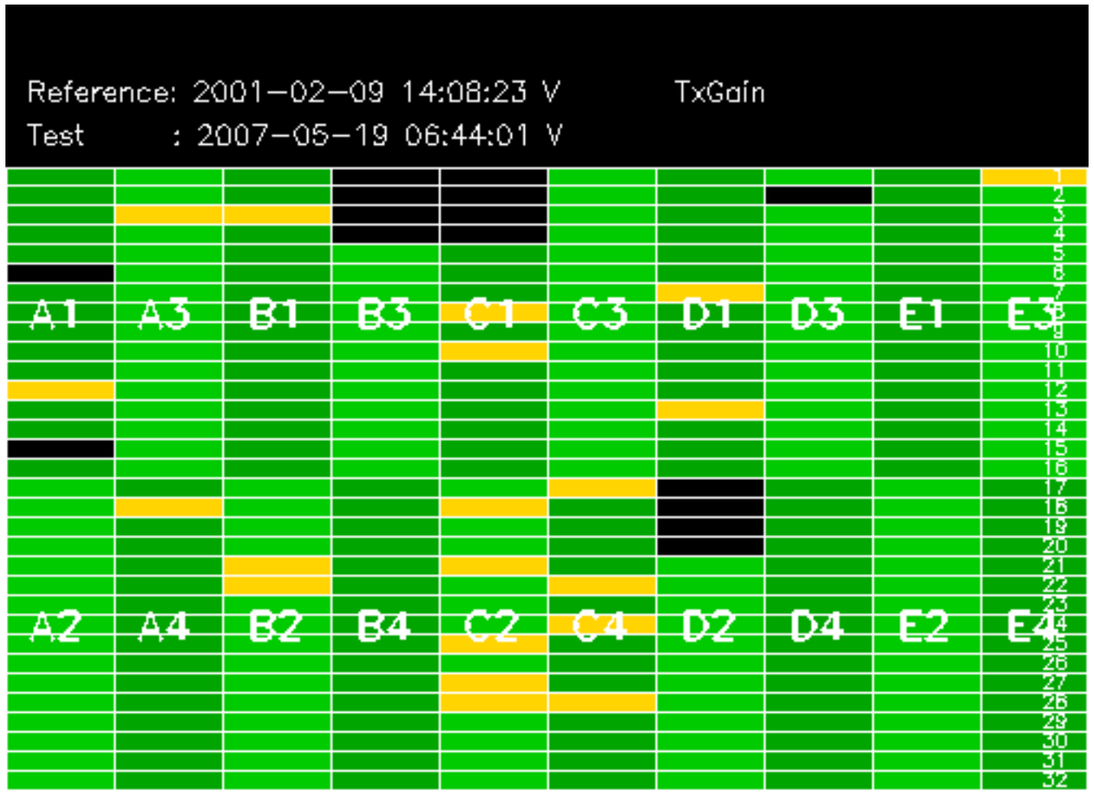

SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
21−Apr
26−Apr
01−May
06−May
11−May
16−May
21−May

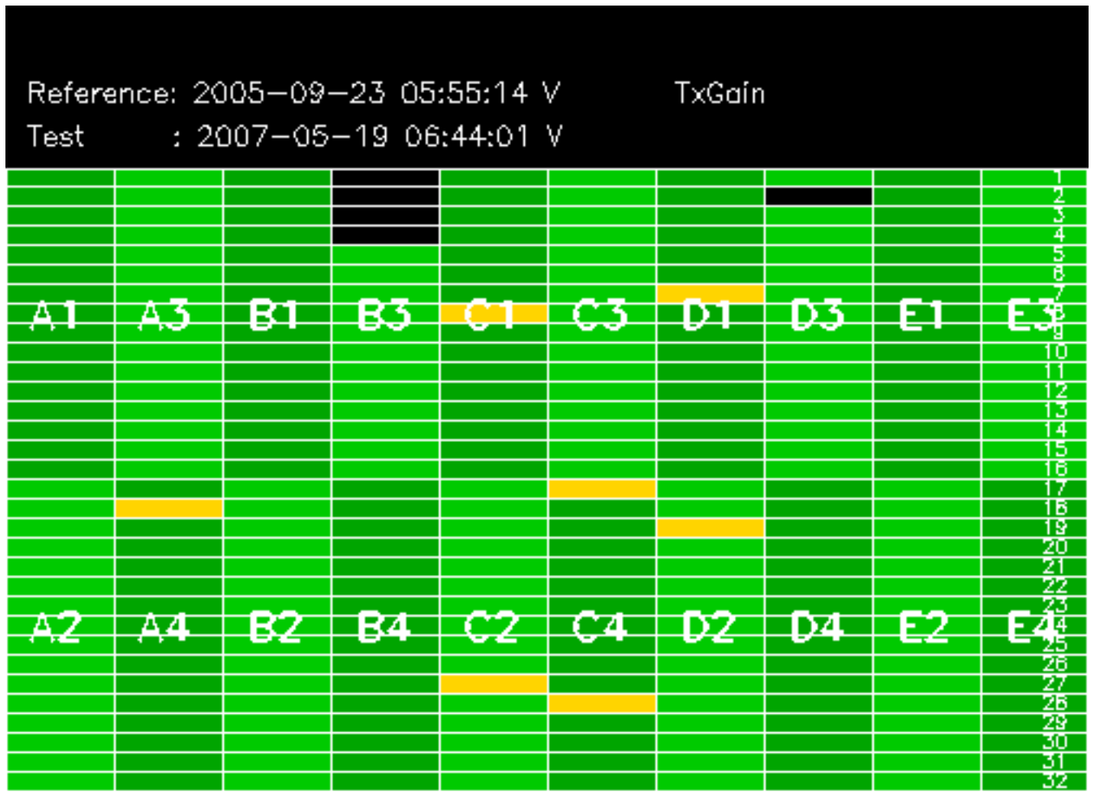

Reference: 2001-02-09 13:50:42 H
Test : 2007-05-20 06:12:24 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-05-20 06:12:24 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
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

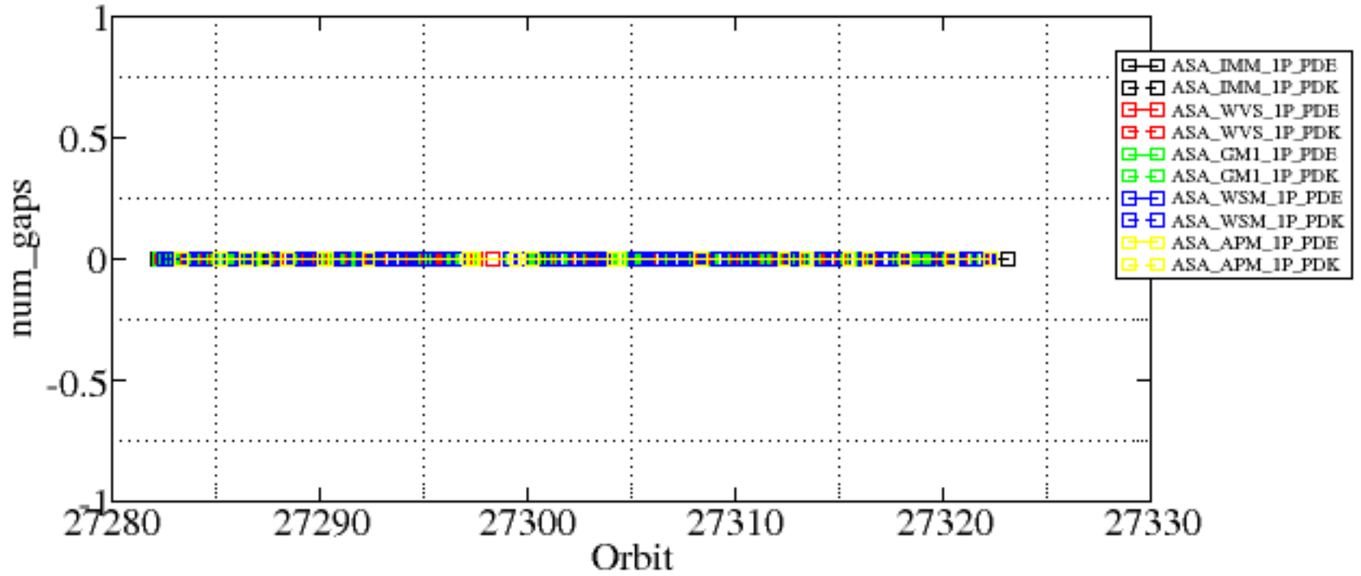

Reference: 2001-02-09 13:50:42 H
Test : 2007-05-22 05:09:11 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

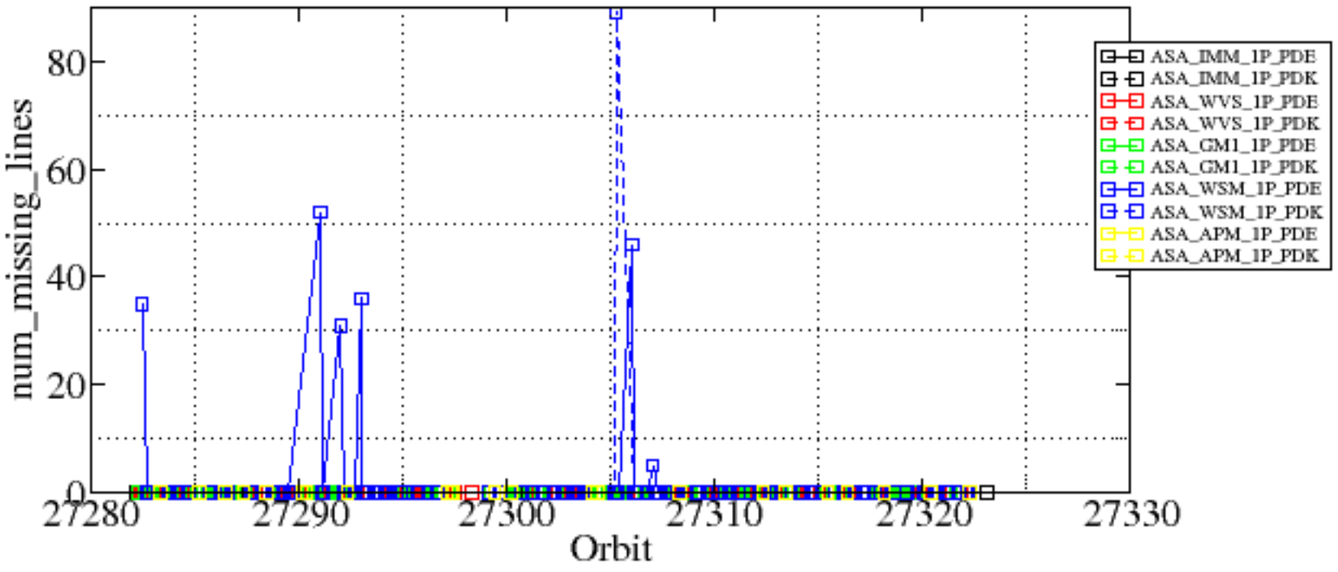

Reference: 2005-09-22 06:26:51 H
Test : 2007-05-22 05:09:11 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

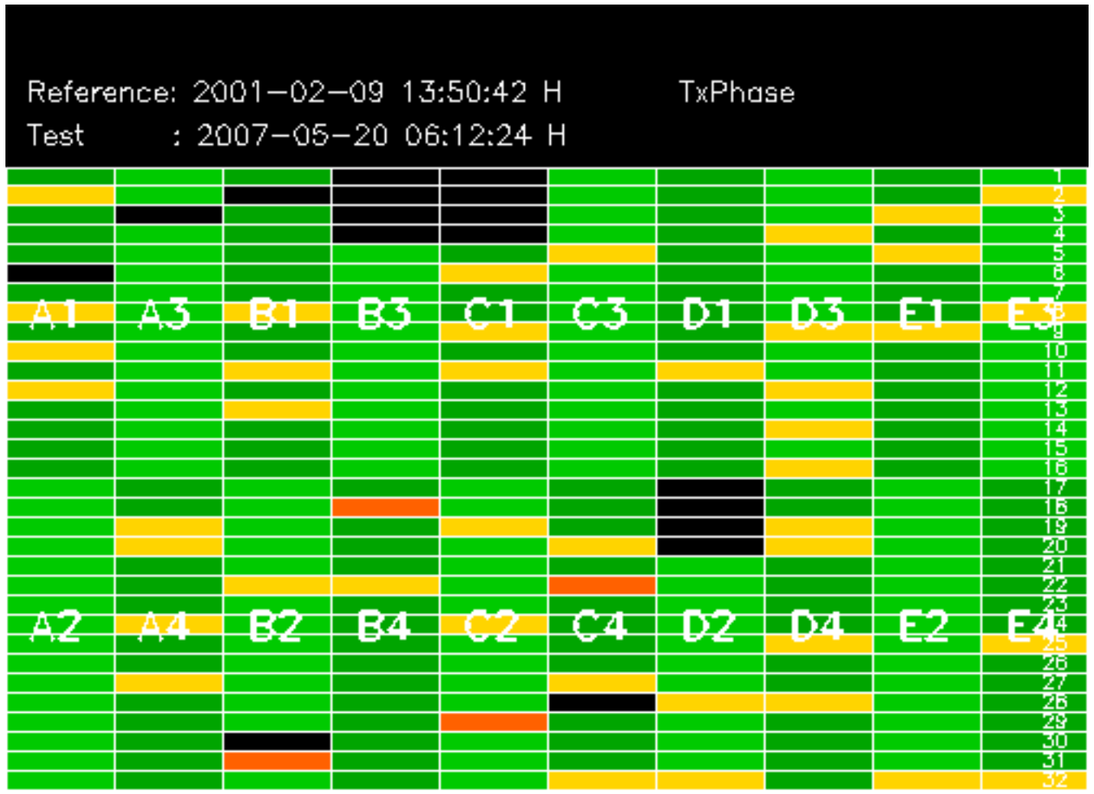

Reference: 2001-02-09 14:08:23 V
Test : 2007-05-19 06:44:01 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

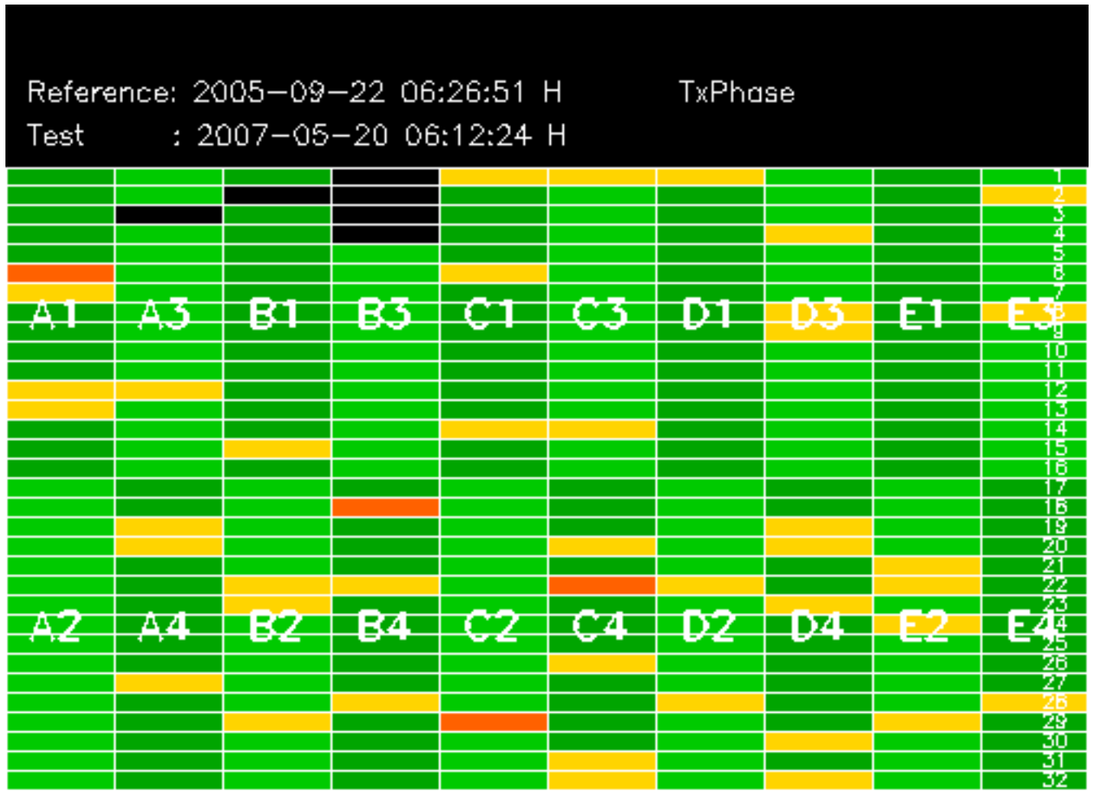

Reference: 2005-09-23 05:55:14 V
Test : 2007-05-19 06:44:01 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

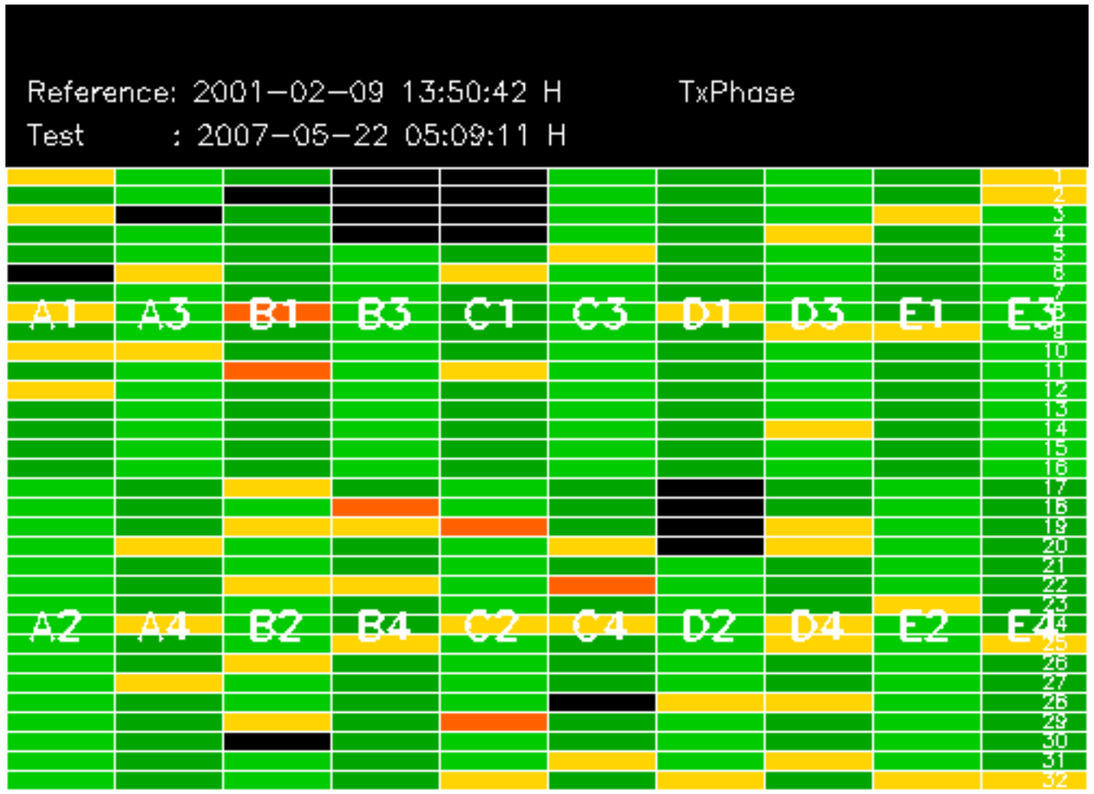
Summary of analysis for the last 3 days 2007052[012]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_WSM_1PNPDE20070520_005022_000002612058_00174_27282_3191.N1 </td> <td>0 </td> <td>35 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070520_151026_000003302058_00183_27291_3737.N1 </td> <td>0 </td> <td>52 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070520_165036_000000852058_00184_27292_3767.N1 </td> <td>0 </td> <td>31 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070520_183356_000000862058_00185_27293_3810.N1 </td> <td>0 </td> <td>36 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070521_162341_000002022058_00198_27306_5002.N1 </td> <td>0 </td> <td>46 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070521_180340_000001102058_00199_27307_5028.N1 </td> <td>0 </td> <td>5 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20070521_150502_000001152058_00197_27305_8922.N1 </td> <td>0 </td> <td>89 </td></tr>
</table>

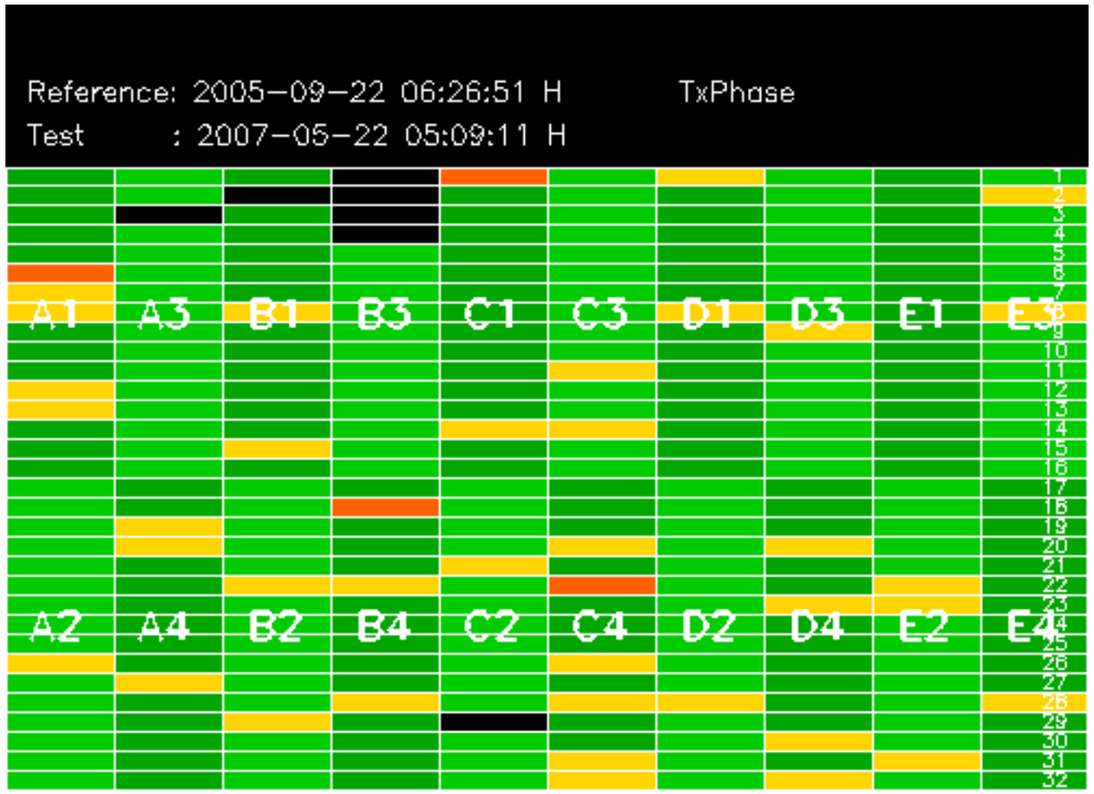

num_gaps
1
0.5
0
-0.5
-1
27280
27290
27300
27310
27320
27330
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK

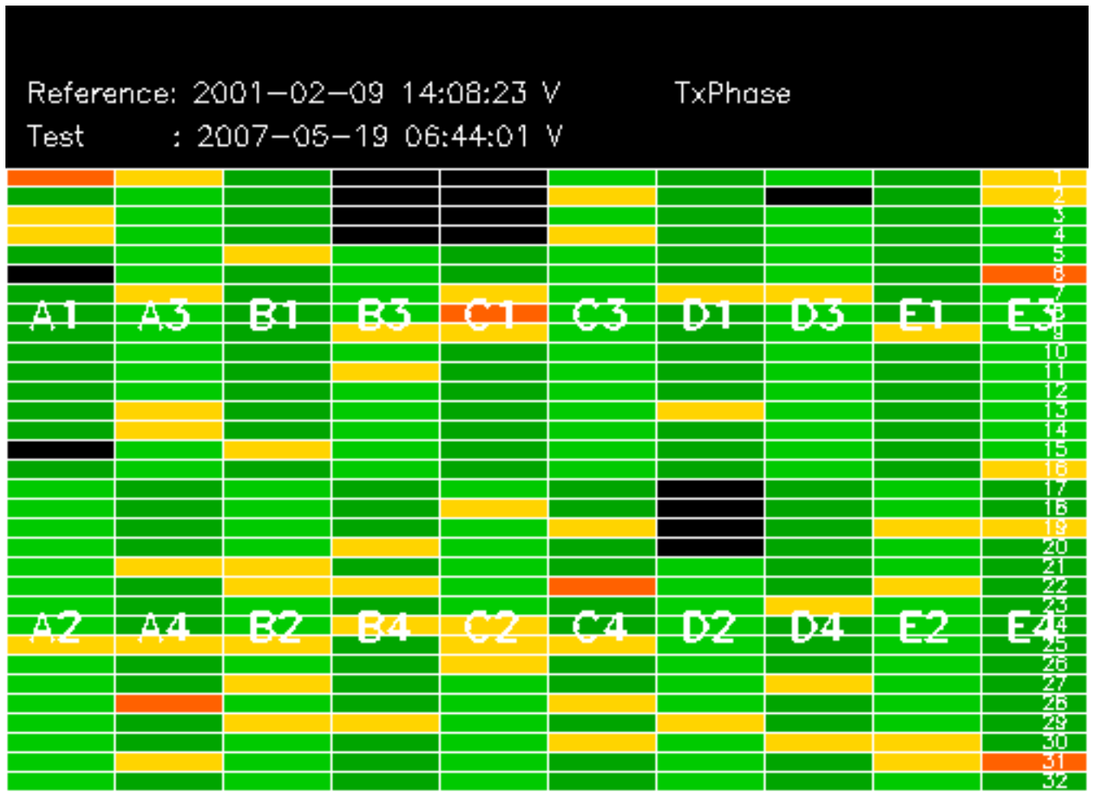

num_missing_lines
80
60
40
20
0
27280
27290
27300
27310
27320
27330
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK

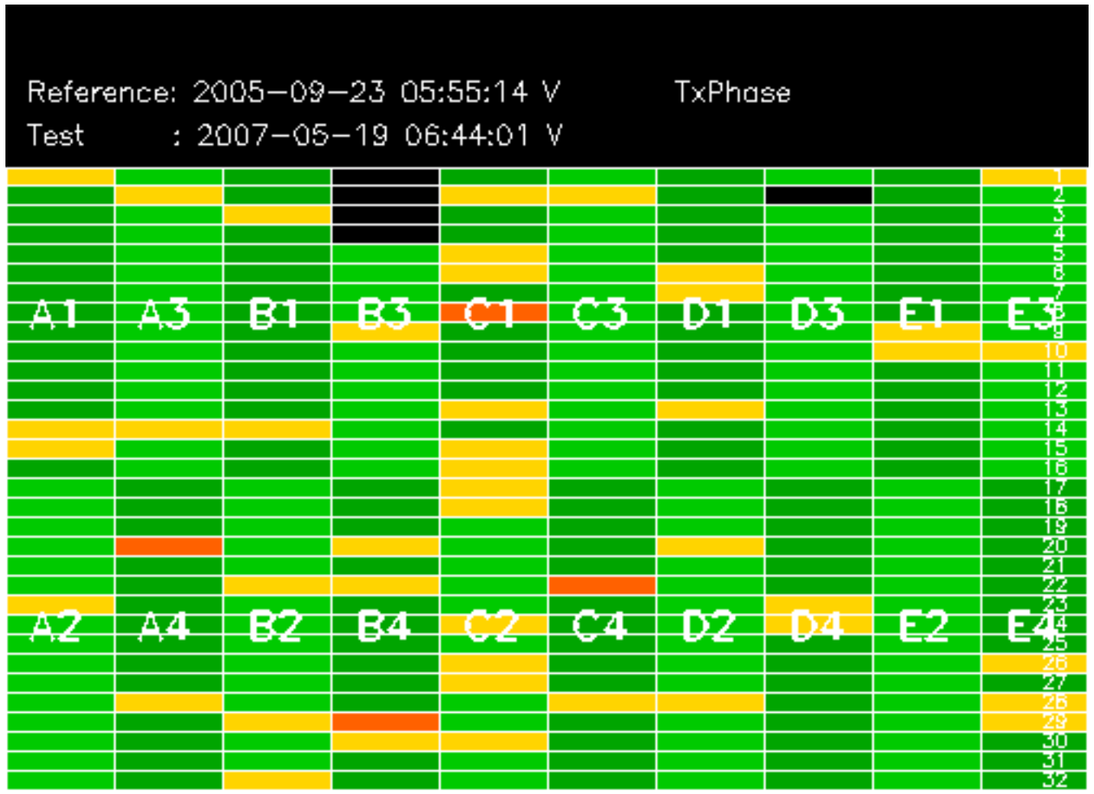

Reference: 2001-02-09 13:50:42 H
TxPhase
Test : 2007-05-20 06:12:24 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

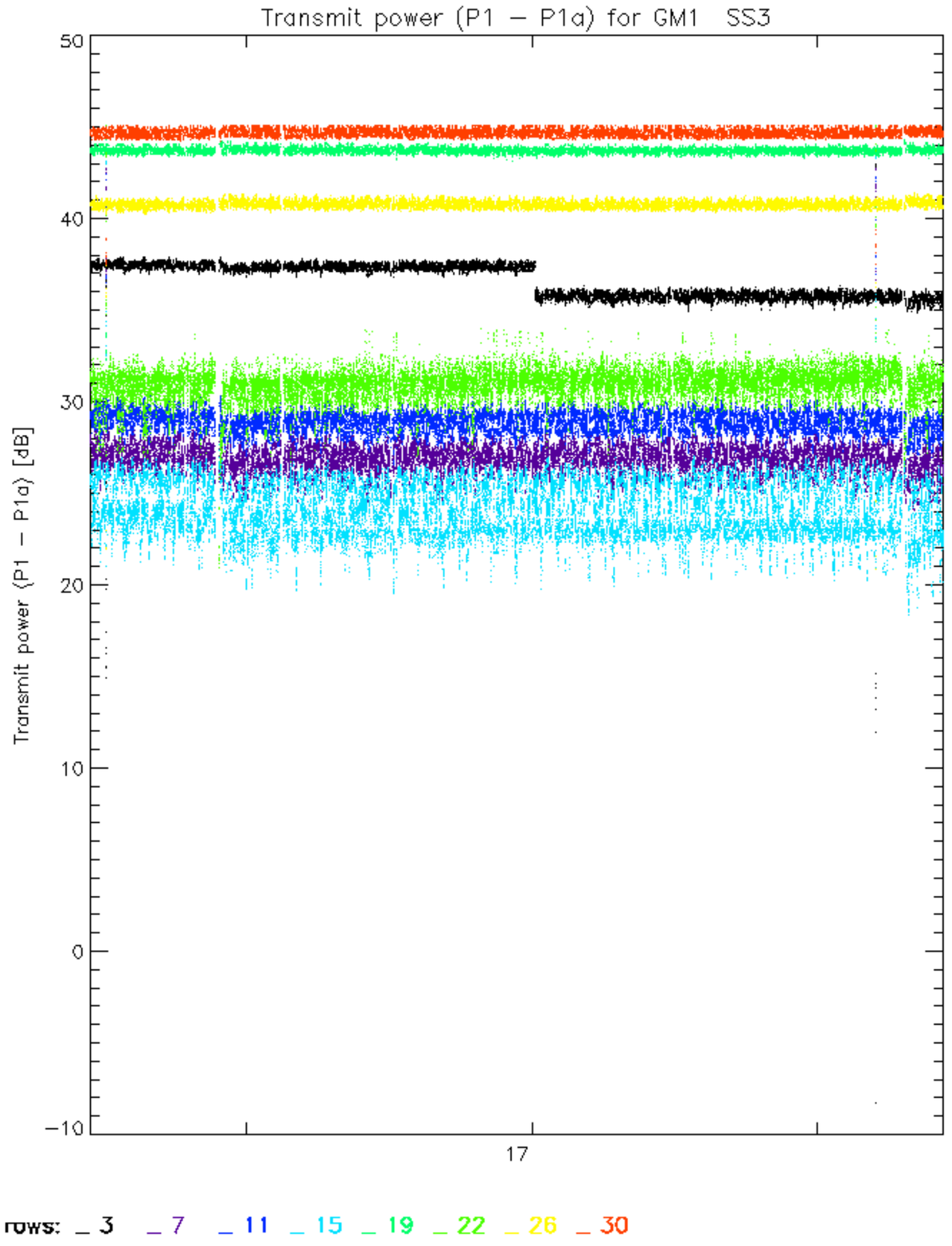

Reference: 2005-09-22 06:26:51 H
Test : 2007-05-20 06:12:24 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

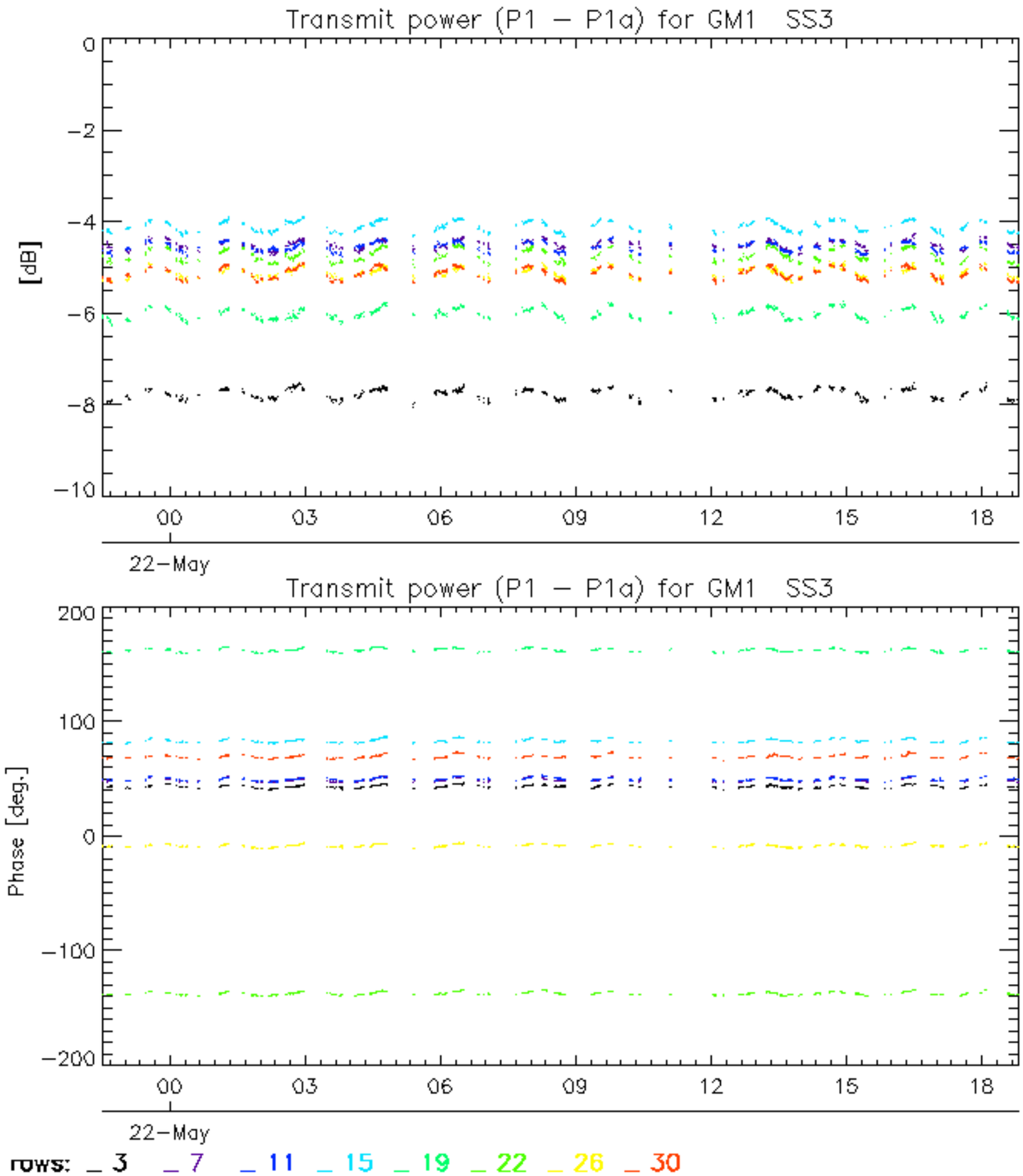

Reference: 2001-02-09 13:50:42 H
Test : 2007-05-22 05:09:11 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

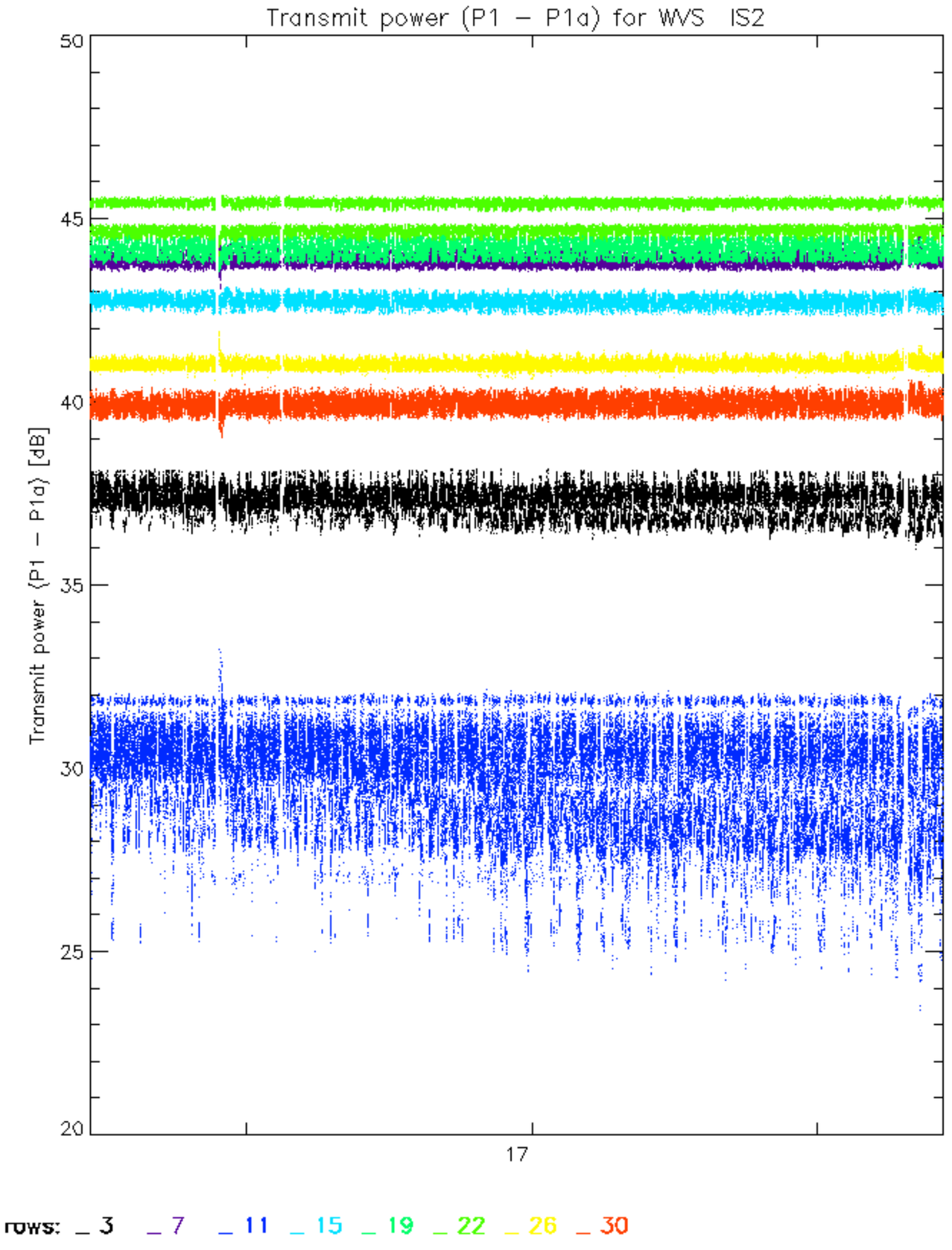

Reference: 2005-09-22 06:26:51 H
Test : 2007-05-22 05:09:11 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

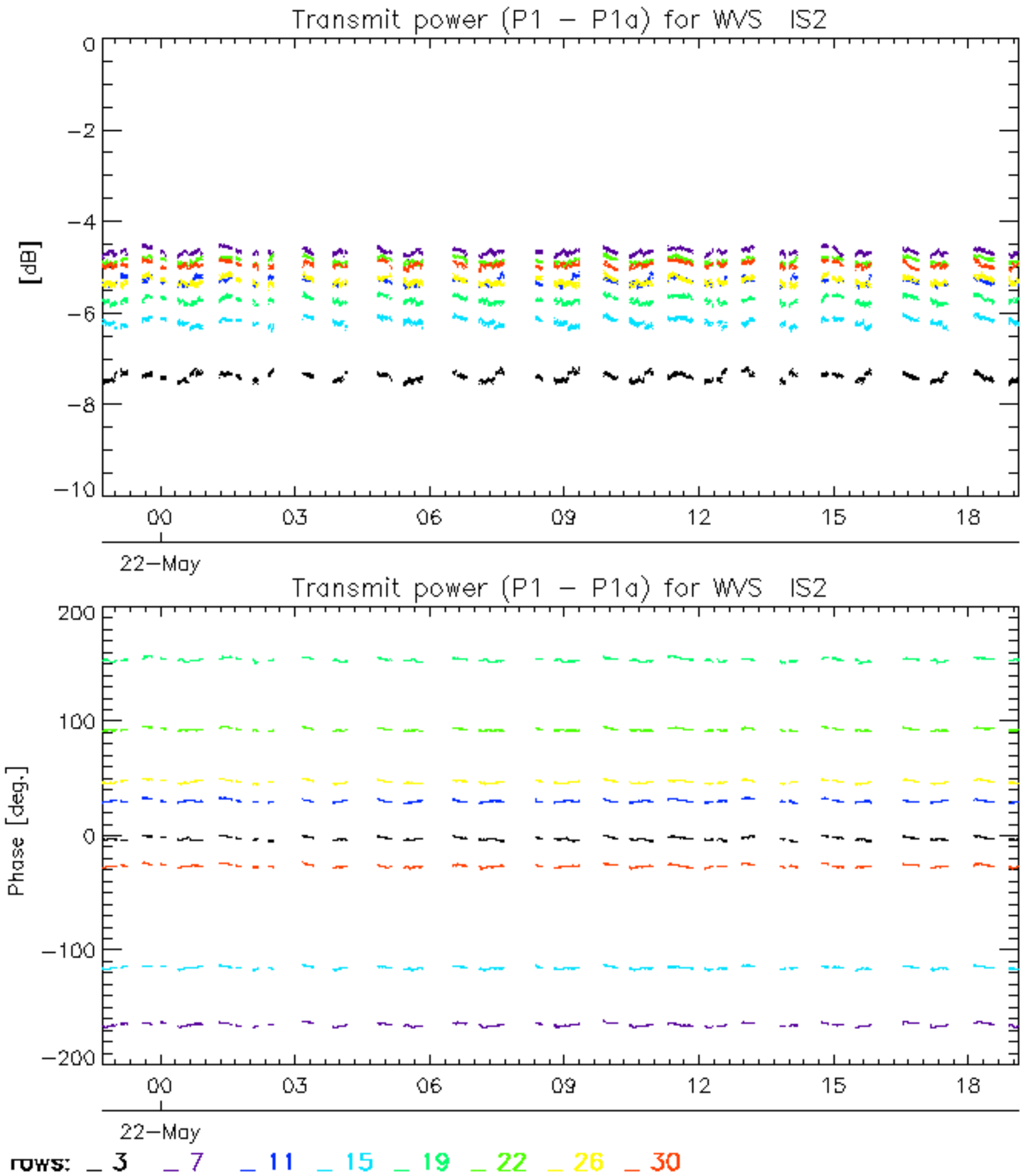

Reference: 2001-02-09 14:08:23 V
Test : 2007-05-19 06:44:01 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32


Reference: 2005-09-23 05:55:14 V
Test : 2007-05-19 06:44:01 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
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
17
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
[dB]
0
−2
−4
−6
−8
−10
00
03
06
09
12
15
18
22−May
Transmit power (P1 – P1a) for GM1 SS3
Phase [deg.]
200
100
0
−100
−200
00
03
06
09
12
15
18
22−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
17
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
22–May
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
00
03
06
09
12
15
18
22–May
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.