PRELIMINARY REPORT OF 070419

last update on Thu Apr 19 18:15:37 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 2007-04-18 00:00:00 to 2007-04-19 18:15:37

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

ASA_INS_AXVIEC20070306_164819_20070307_060000_20071231_000000	44	61	9	1	25
ASA_CON_AXVIEC20070410_140202_20070204_165113_20071231_000000	44	61	9	1	25
ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	44	61	9	1	25
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	44	61	9	1	25

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_INS_AXVIEC20070306_164819_20070307_060000_20071231_000000	41	51	26	10	55
ASA_CON_AXVIEC20070410_140202_20070204_165113_20071231_000000	41	51	26	10	55
ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	41	51	26	10	55
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	41	51	26	10	55

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	20070418 043731
H	20070419 040554

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
☒

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1a	-15.059688	0.151502	-0.032896
7	P1a	-17.541405	0.120181	-0.061068
11	P1a	-17.390808	0.324729	-0.709674
15	P1a	-12.955249	0.103453	-0.434193
19	P1a	-15.291793	0.067674	-0.415292
22	P1a	-15.870145	0.412398	-0.673210
26	P1a	-15.085659	0.190086	0.513369
30	P1a	-17.613575	0.284694	-0.743945

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-5.761759	0.010833	-0.035600
7	P1	-3.146333	0.008950	-0.015969
11	P1	-4.207837	0.012405	-0.026811
15	P1	-6.389356	0.018765	-0.132588
19	P1	-3.790289	0.009731	0.051001
22	P1	-4.744963	0.009157	-0.054981
26	P1	-3.930311	0.018441	0.107205
30	P1	-5.970697	0.009238	0.031107

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-22.662432	0.090356	-0.080627
7	P2	-21.576836	0.086317	0.113153
11	P2	-15.384991	0.112508	0.204370
15	P2	-7.125214	0.087528	-0.040311
19	P2	-9.120663	0.078151	0.032300
22	P2	-18.090311	0.075627	-0.010188
26	P2	-16.610123	0.078977	-0.053096
30	P2	-19.286480	0.081470	0.007162

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.245213	0.005272	-0.023307
7	P3	-8.245213	0.005272	-0.023307
11	P3	-8.245213	0.005272	-0.023307
15	P3	-8.245213	0.005272	-0.023307
19	P3	-8.245213	0.005272	-0.023307
22	P3	-8.245213	0.005272	-0.023307
26	P3	-8.245213	0.005272	-0.023307
30	P3	-8.245213	0.005272	-0.023307

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	-11.196846	0.186665	-0.279928
7	P1a	-10.073293	0.297792	-0.191530
11	P1a	-10.699343	0.135206	-0.010644
15	P1a	-10.858560	0.193824	-0.057167
19	P1a	-15.791793	0.100350	-0.071317
22	P1a	-21.317242	1.455252	-0.772983
26	P1a	-15.468062	0.383215	-0.436163
30	P1a	-18.346540	0.475275	0.398265

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-8.454011	0.073234	-0.036972
7	P1	-2.424187	0.178155	-0.097630
11	P1	-2.900954	0.033327	0.024925
15	P1	-3.827881	0.043341	0.025915
19	P1	-3.586188	0.015171	-0.040613
22	P1	-4.984266	0.023292	0.094676
26	P1	-6.033179	0.033601	-0.075090
30	P1	-5.338944	0.036954	-0.081608

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-18.167656	0.069159	-0.105280
7	P2	-22.028248	0.279257	0.050467
11	P2	-10.633850	0.048517	-0.075971
15	P2	-4.914137	0.038999	-0.181820
19	P2	-6.870245	0.037429	-0.134912
22	P2	-8.122422	0.127003	-0.191146
26	P2	-24.314407	0.206270	0.020601
30	P2	-21.717117	0.132191	0.092349

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.092093	0.004518	-0.040204
7	P3	-8.092154	0.004538	-0.039930
11	P3	-8.091898	0.004528	-0.040241
15	P3	-8.091889	0.004530	-0.040818
19	P3	-8.092029	0.004558	-0.039605
22	P3	-8.092015	0.004511	-0.039546
26	P3	-8.092076	0.004525	-0.040379
30	P3	-8.092022	0.004523	-0.041205

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	0.000540441
	stdev	2.05406e-07
MEAN Q	mean	0.000491783
	stdev	2.44785e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.135347
	stdev	0.00123520
STDEV Q	mean	0.135740
	stdev	0.00125326

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2007041[789]
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_GM1_1PNPDK20070418_201215_000007792057_00228_26835_3683.N1	0	43
ASA_WSM_1PNPDE20070417_112928_000000852057_00209_26816_5448.N1	0	52
ASA_WSM_1PNPDE20070417_190808_000001712057_00214_26821_5641.N1	0	73
ASA_WSM_1PNPDE20070418_005604_000000852057_00217_26824_6083.N1	0	31
ASA_WSM_1PNPDE20070418_165614_000001522057_00227_26834_6862.N1	0	57
ASA_WSM_1PNPDE20070418_184029_000002312057_00228_26835_6864.N1	0	11
ASA_WSM_1PNPDK20070417_122637_000001462057_00210_26817_1935.N1	0	36
ASA_WSM_1PNPDK20070419_094719_000000852057_00237_26844_4060.N1	0	28

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

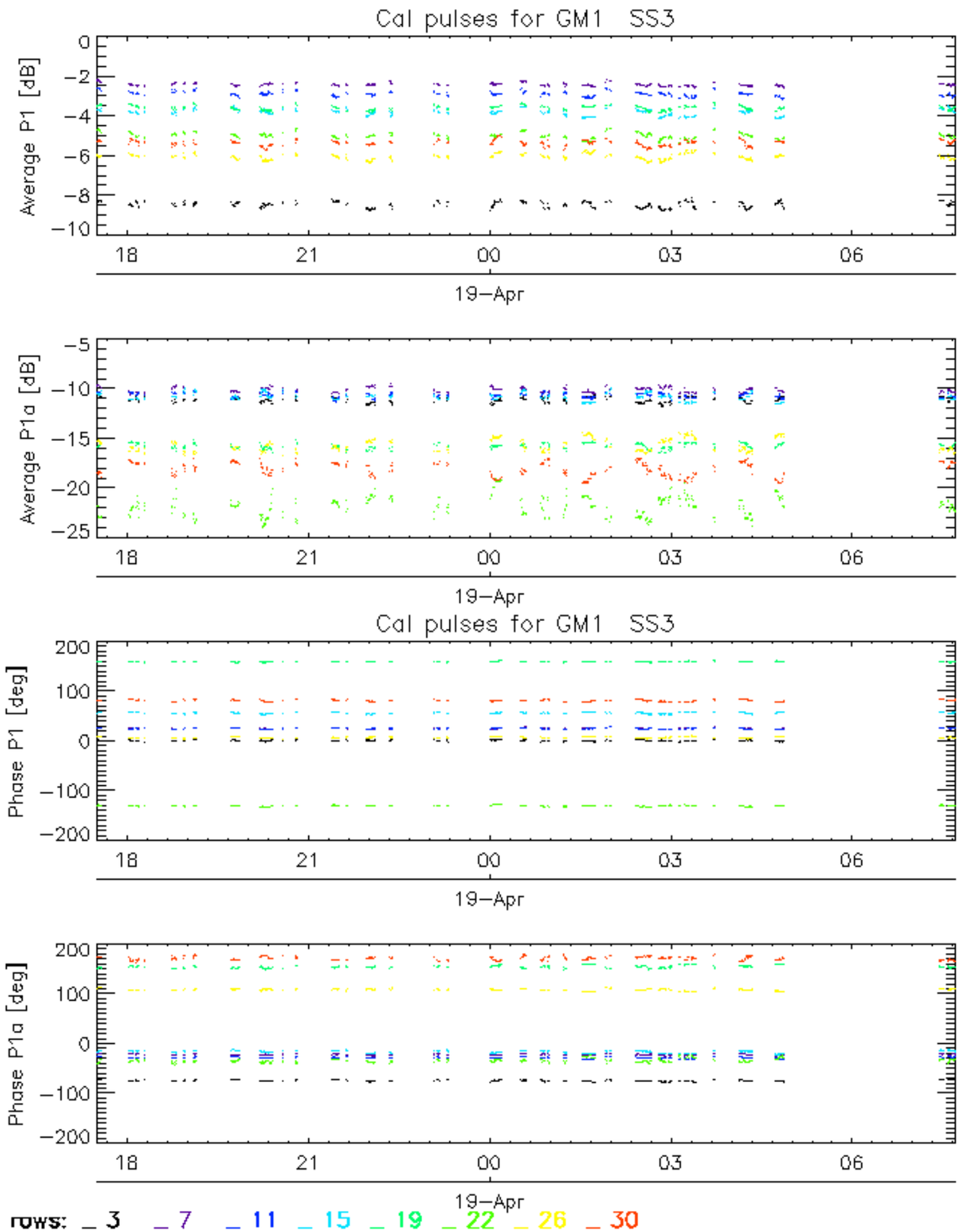
Evolution of Absolute Doppler

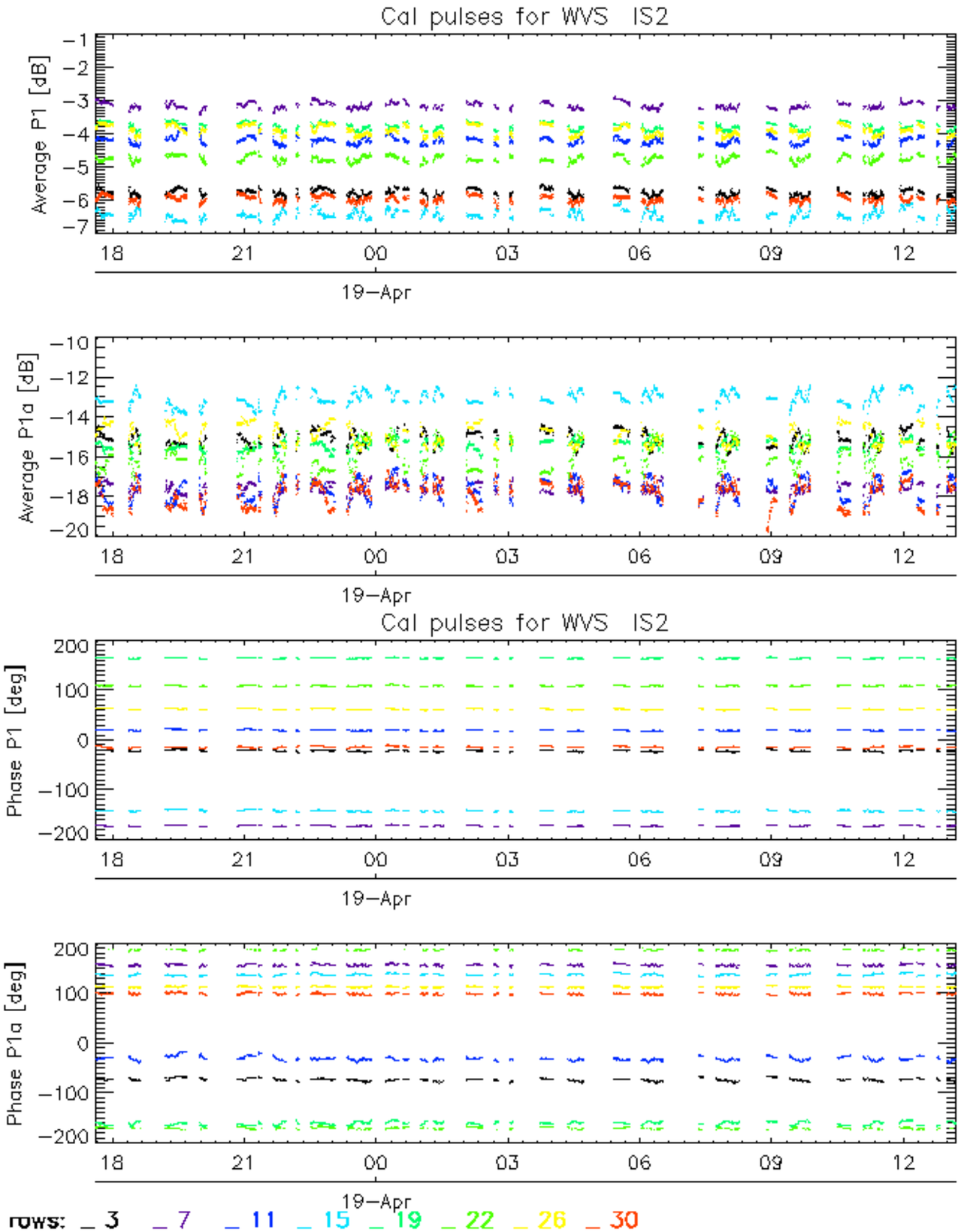
Acsending

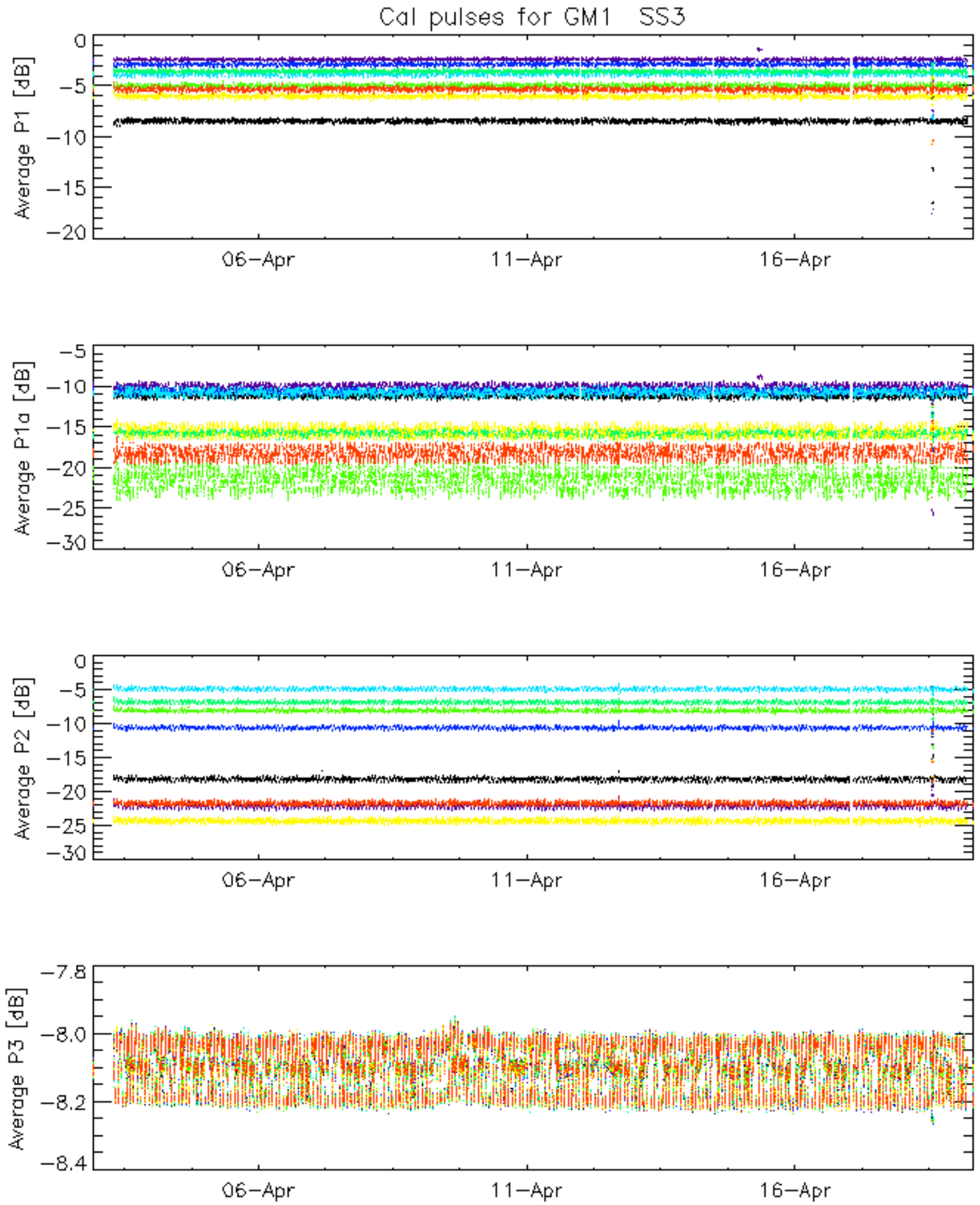
Descending

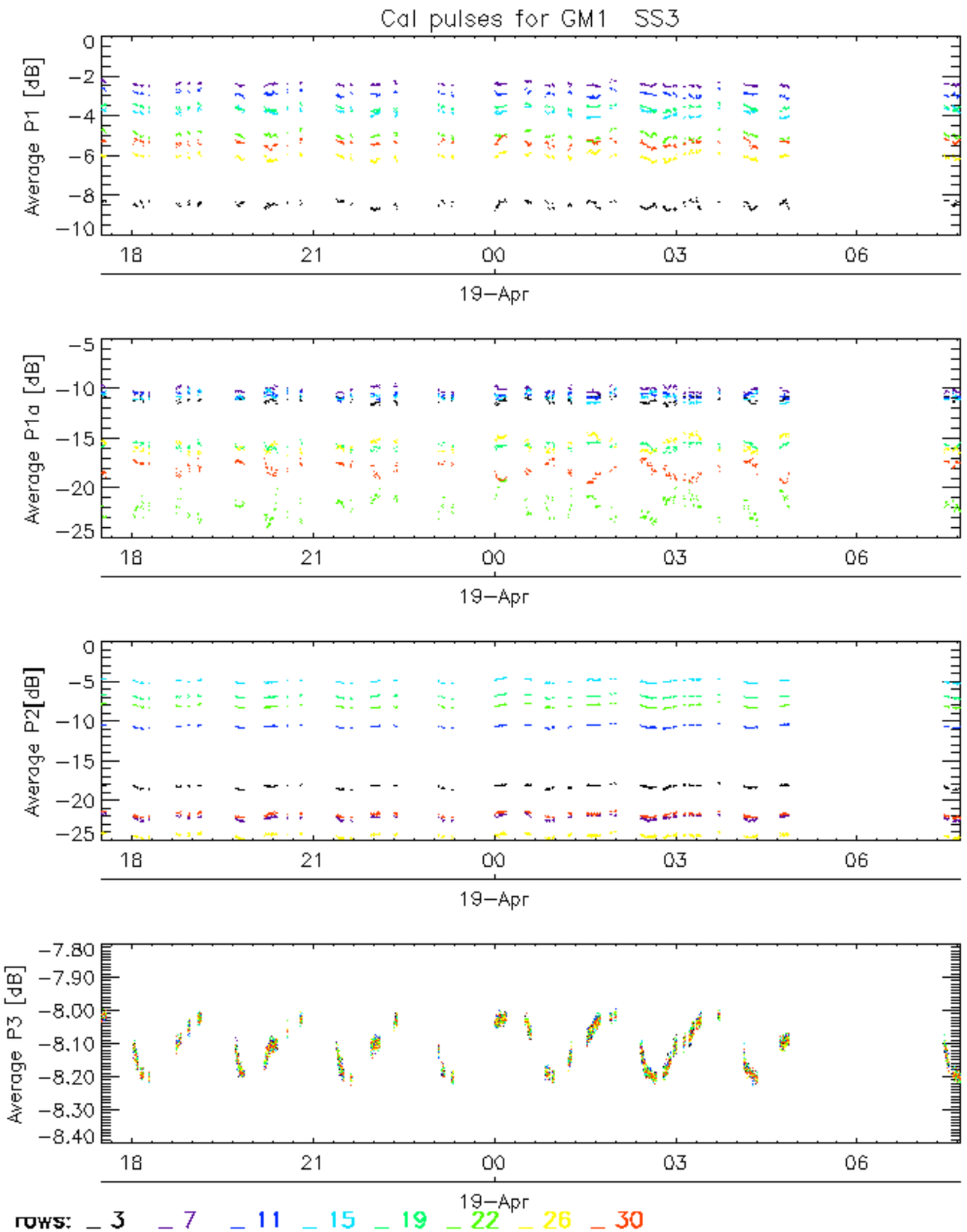
7.6 - Doppler evolution versus ANX for GM1

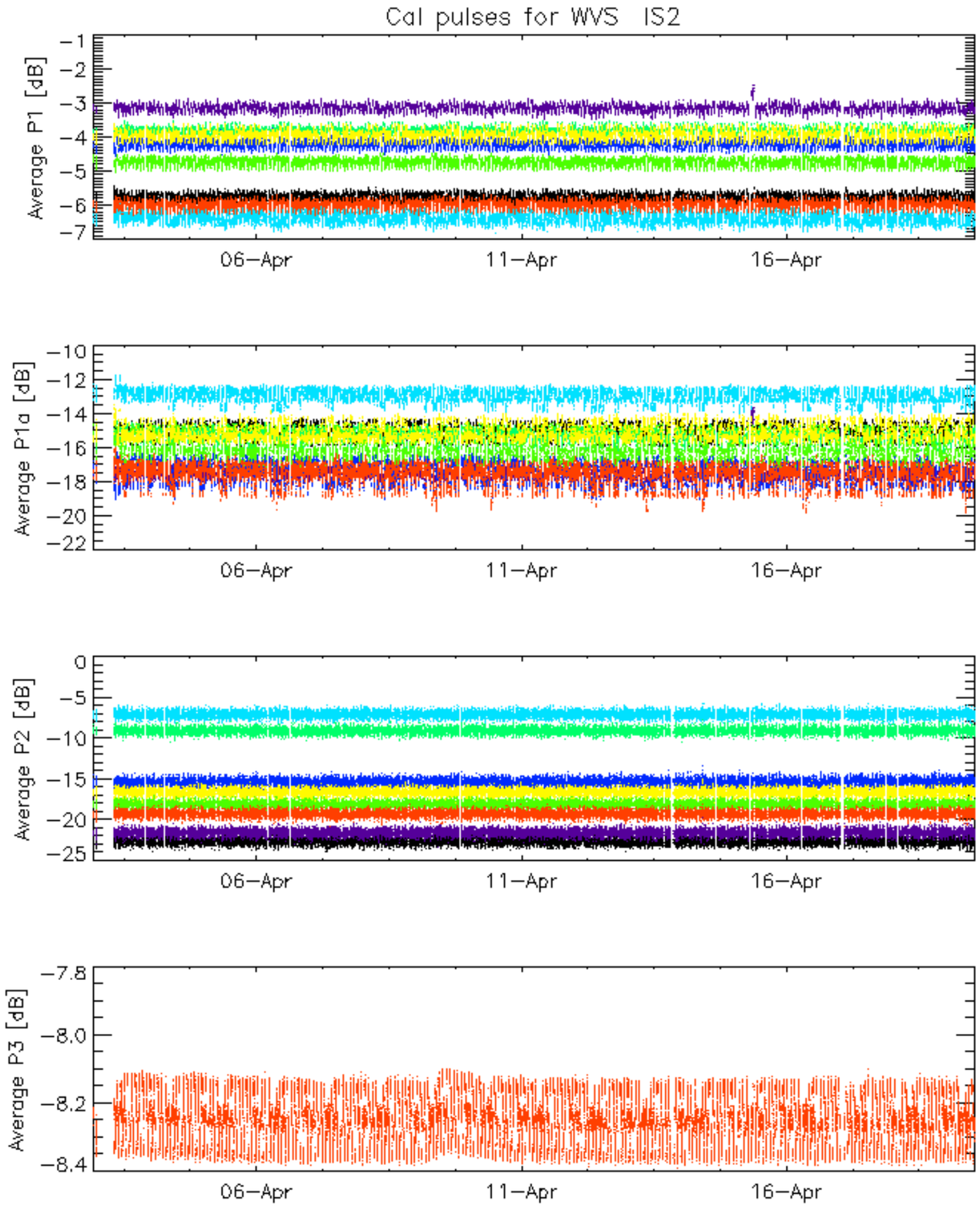
Evolution Doppler error versus ANX

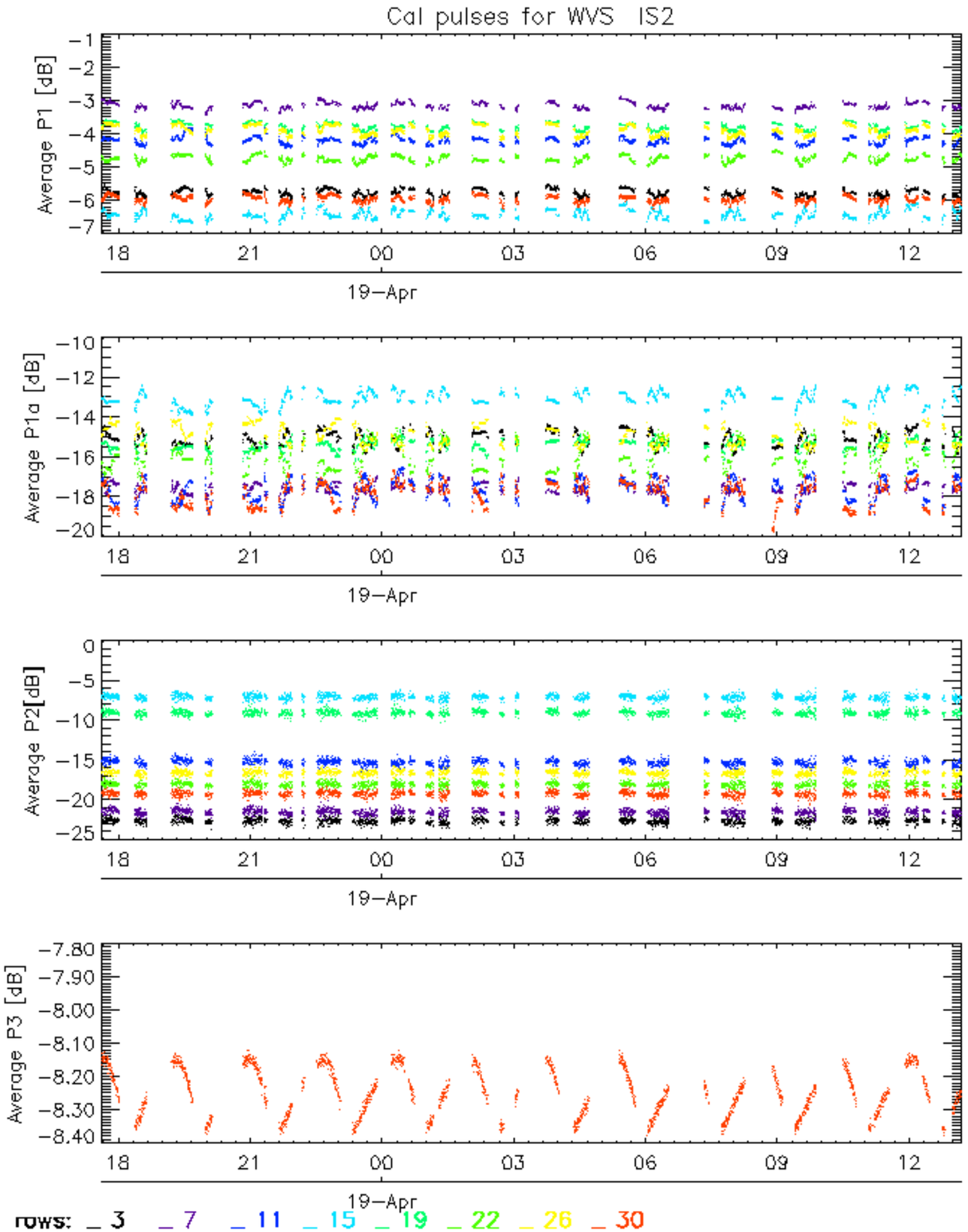


Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
18
21
00
03
06
19−Apr
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
19−Apr
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
19−Apr
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
19−Apr
rows: _ 3 _ 7 _ 11 _ 15 _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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
09
12
19−Apr
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
09
12
19−Apr
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
09
12
19−Apr
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
09
12
19−Apr
rows: 3 7 11 15 19 22 26 30

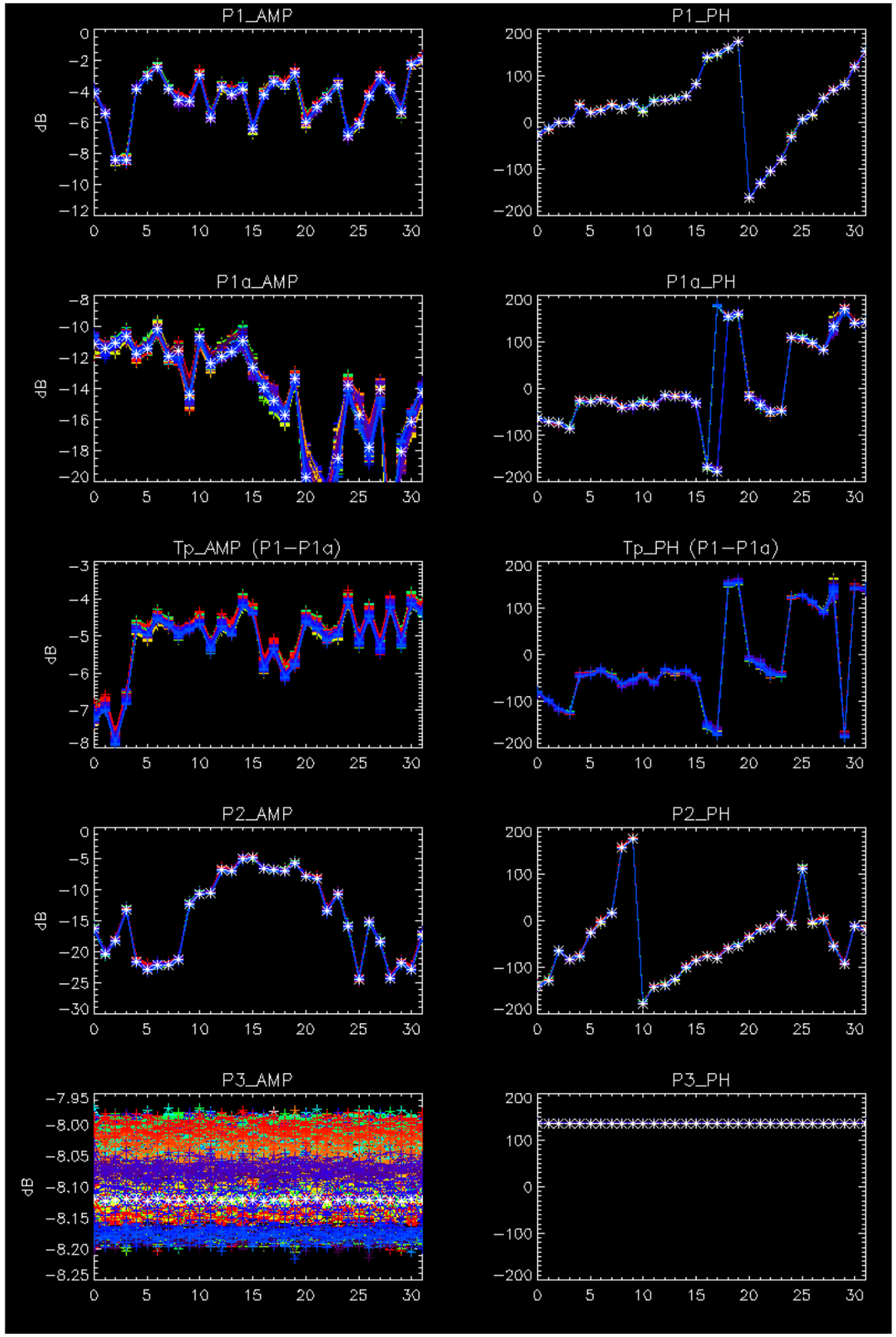

Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
06−Apr
11−Apr
16−Apr
Average P1a [dB]
−5
−10
−15
−20
−25
−30
06−Apr
11−Apr
16−Apr
Average P2 [dB]
0
−5
−10
−15
−20
−25
−30
06−Apr
11−Apr
16−Apr
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
06−Apr
11−Apr
16−Apr
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

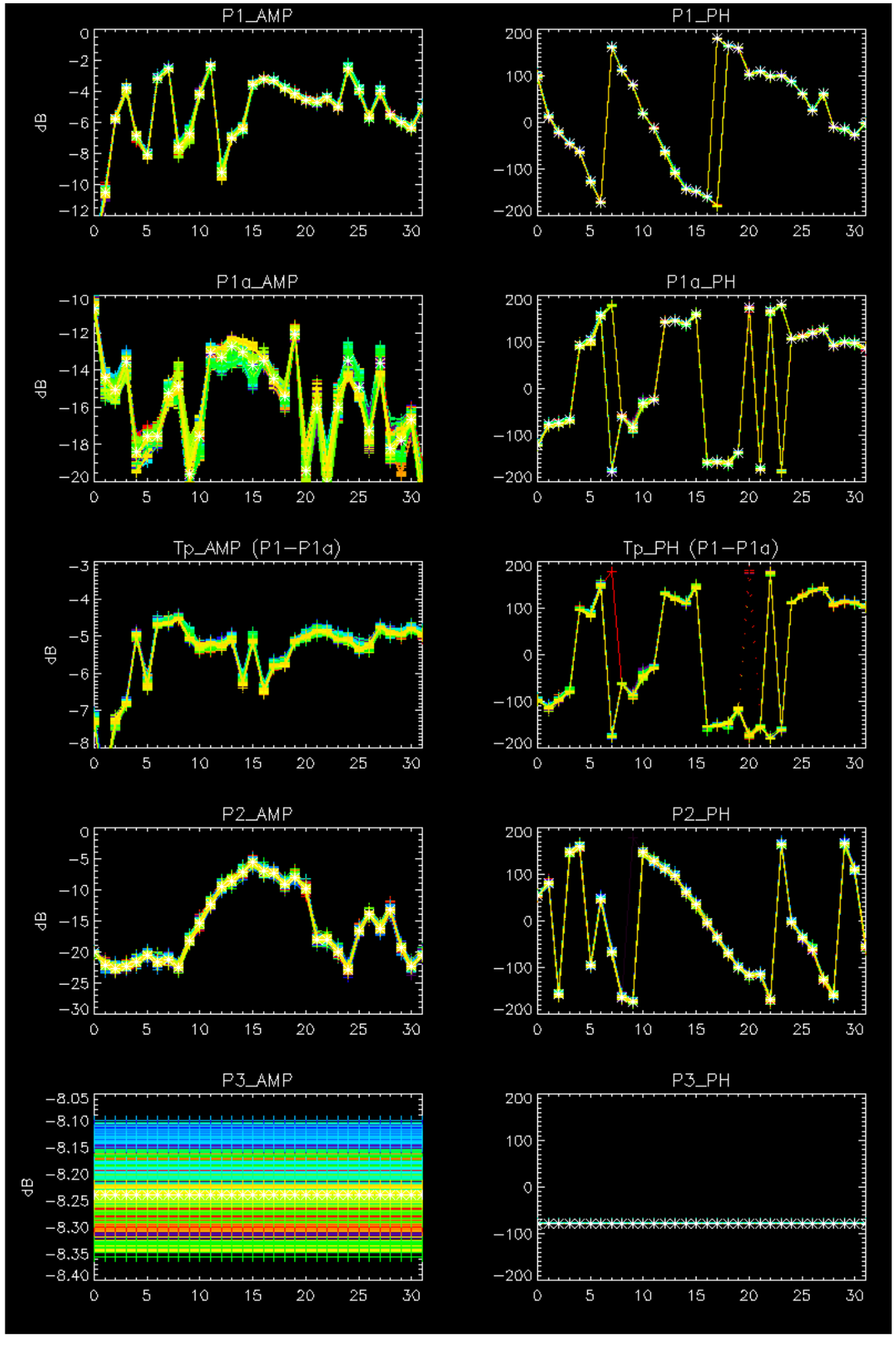

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
18
21
00
03
06
19−Apr
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
19−Apr
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
19−Apr
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
19−Apr
rows: _ 3 _ 7 _ 11 _ 15 _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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
06−Apr
11−Apr
16−Apr
Average P1a [dB]
−10
−12
−14
−16
−18
−20
−22
06−Apr
11−Apr
16−Apr
Average P2 [dB]
0
−5
−10
−15
−20
−25
06−Apr
11−Apr
16−Apr
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
06−Apr
11−Apr
16−Apr
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
09
12
19−Apr
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
09
12
19−Apr
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
09
12
19−Apr
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
09
12
19−Apr
rows: 3 7 11 15 19 22 26 30

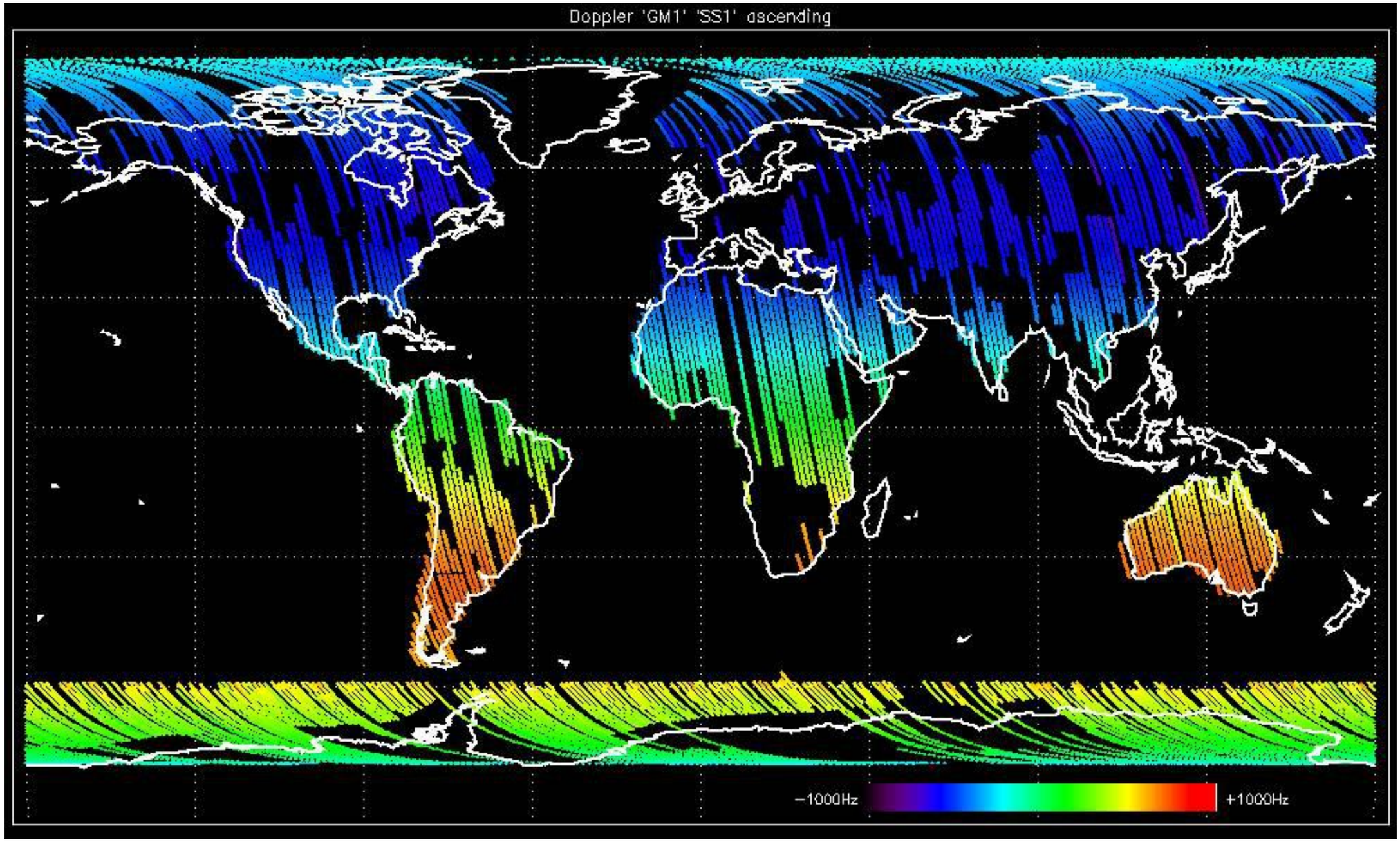
No anomalies observed.

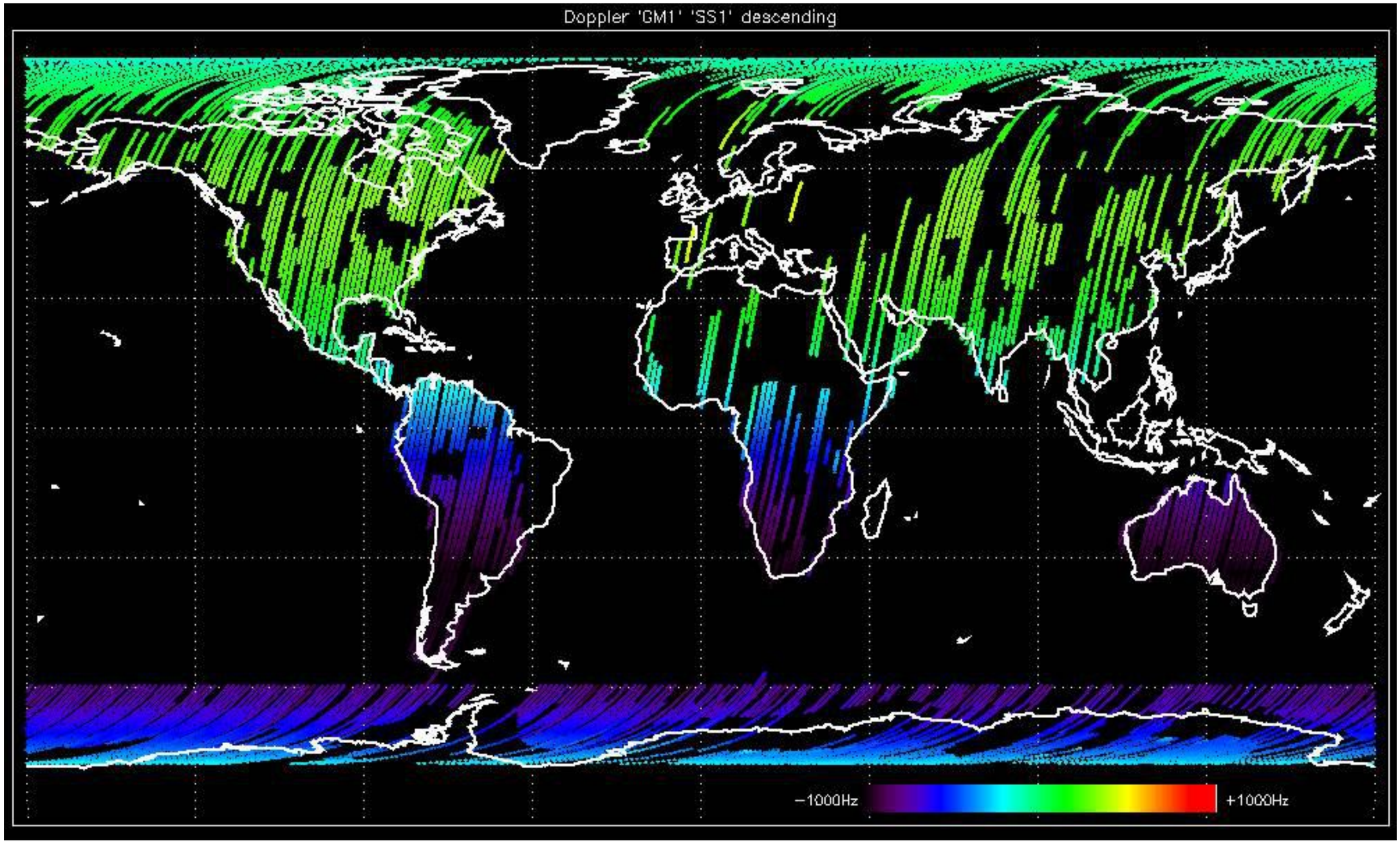

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

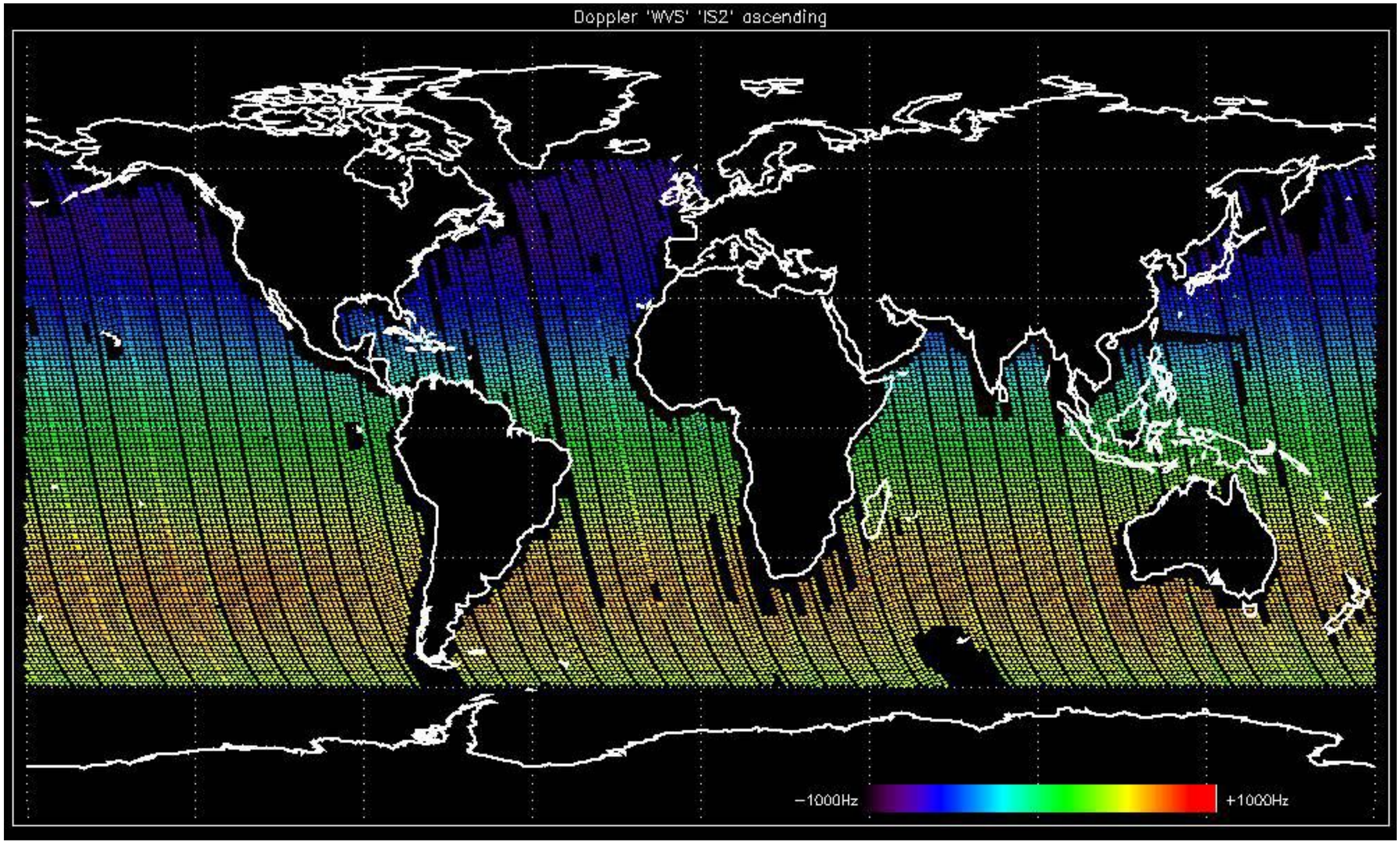

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

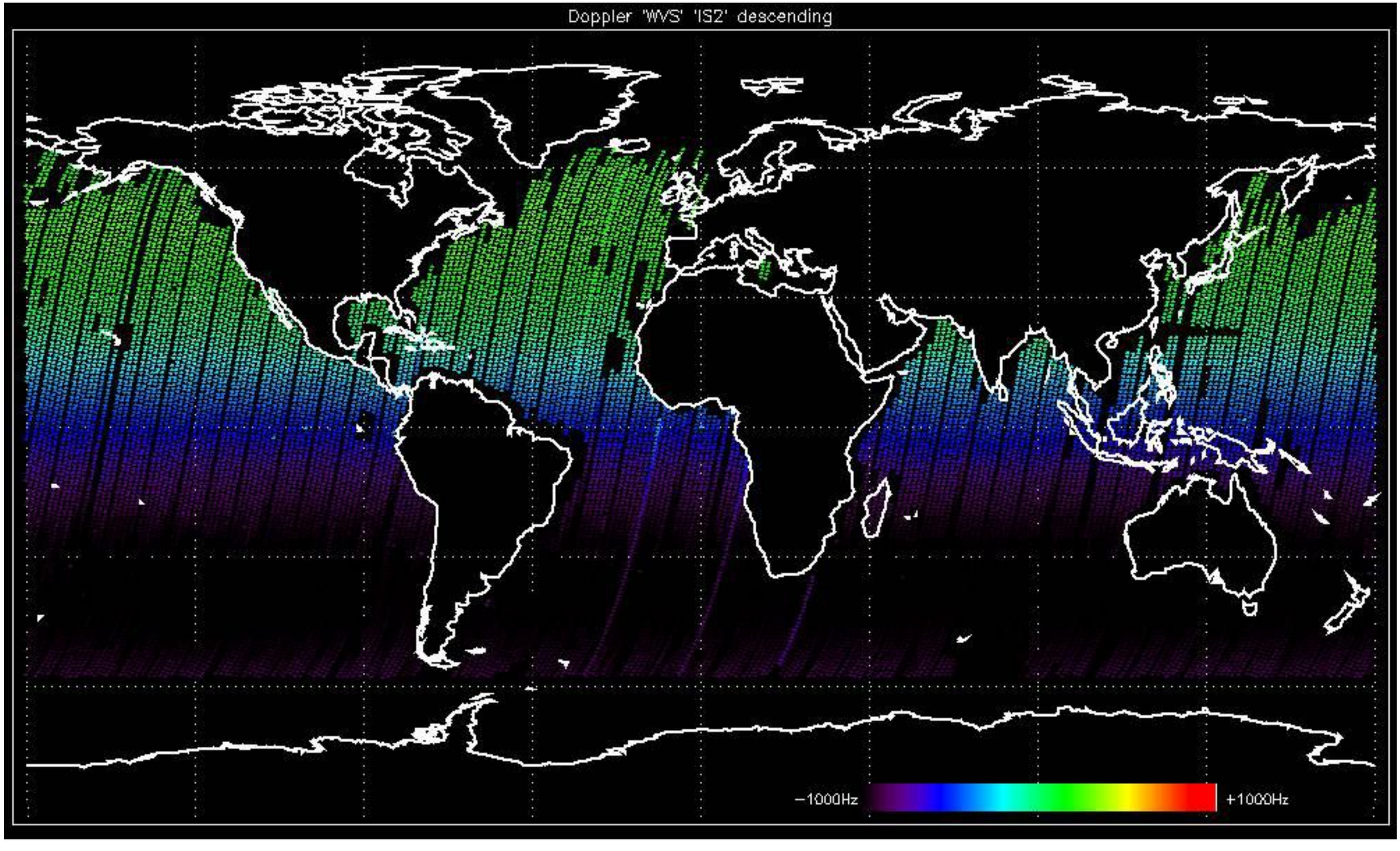
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

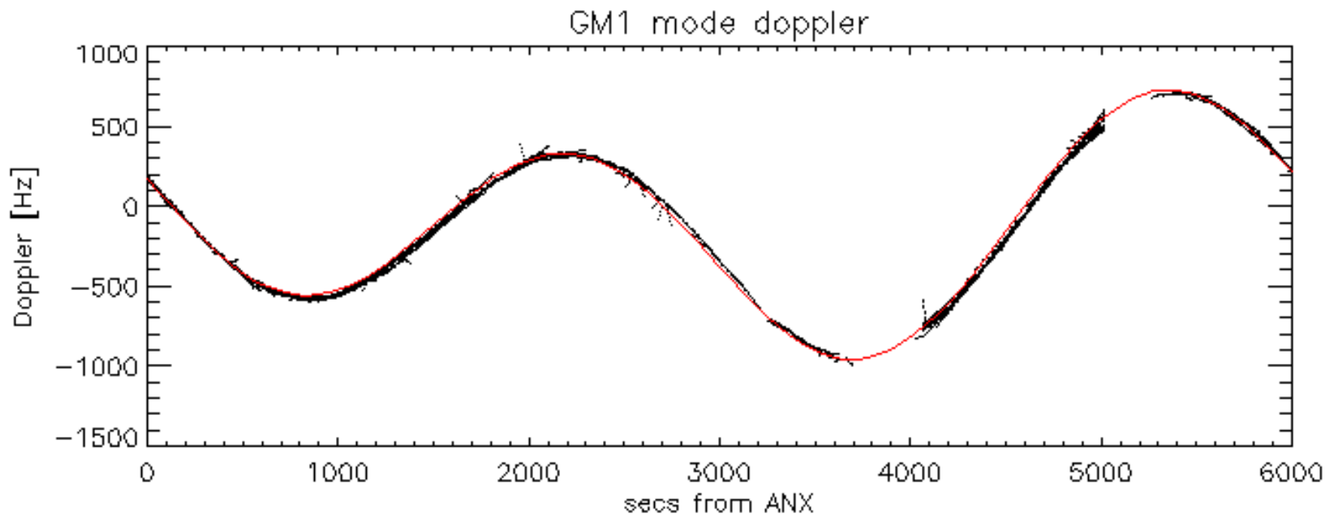
Preliminary report.The data is not yet controled

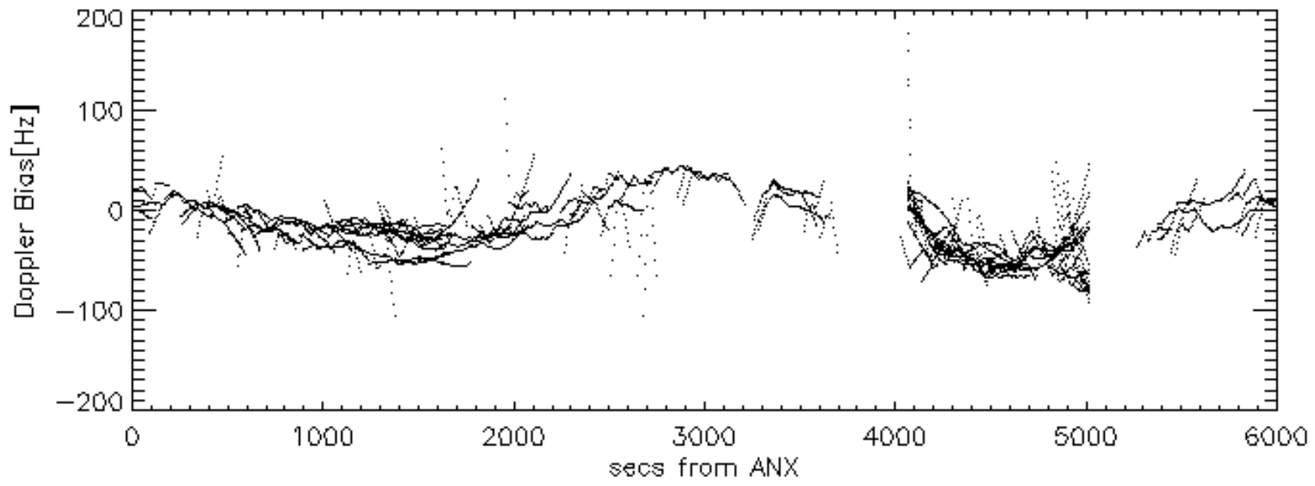

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

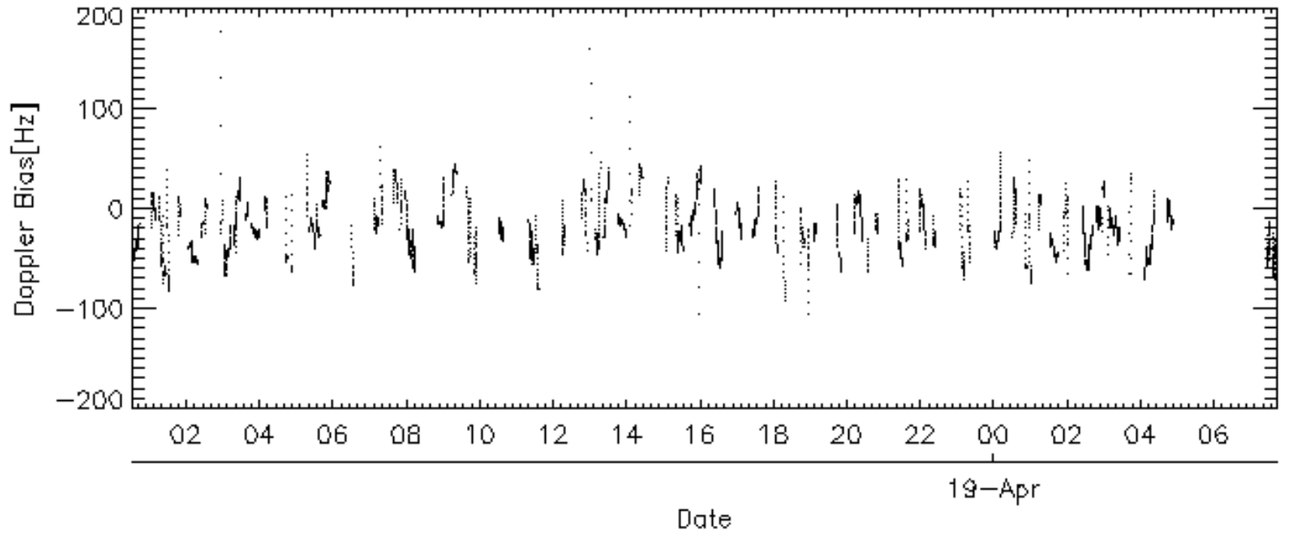

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

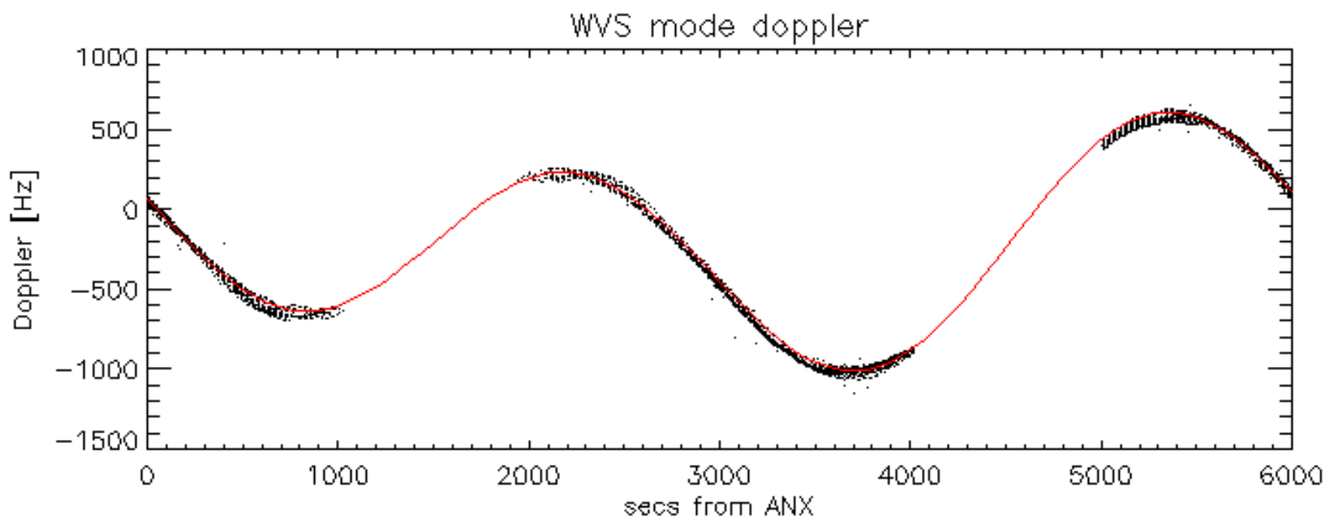

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

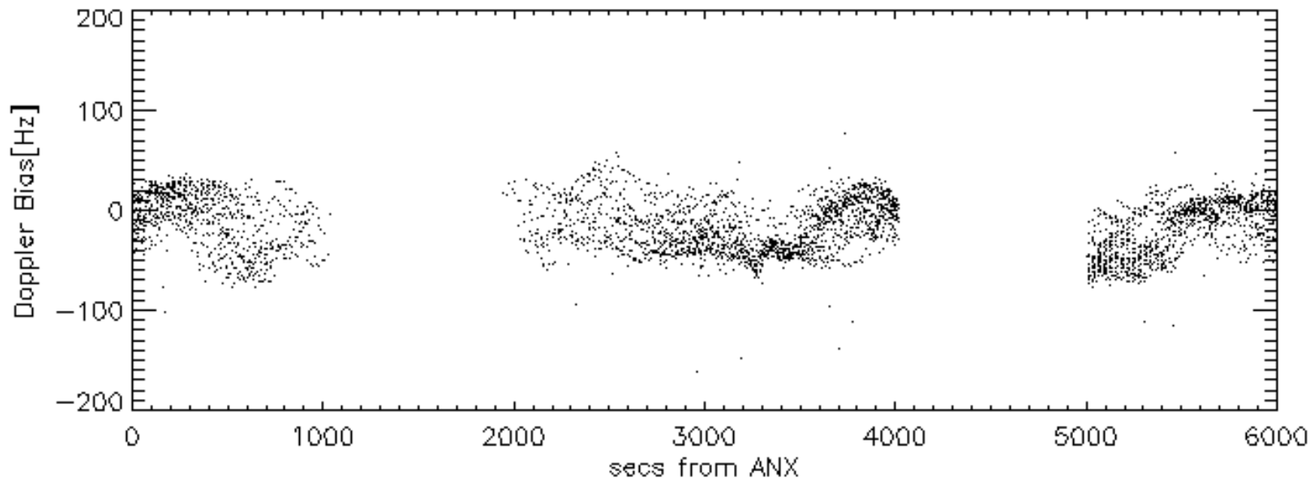

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

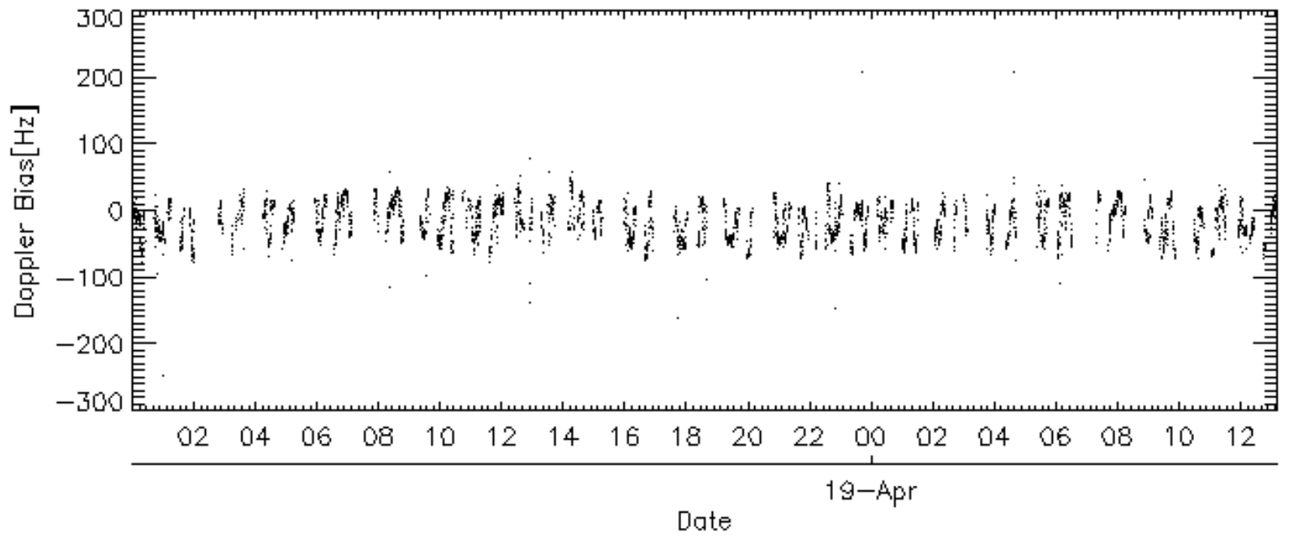

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

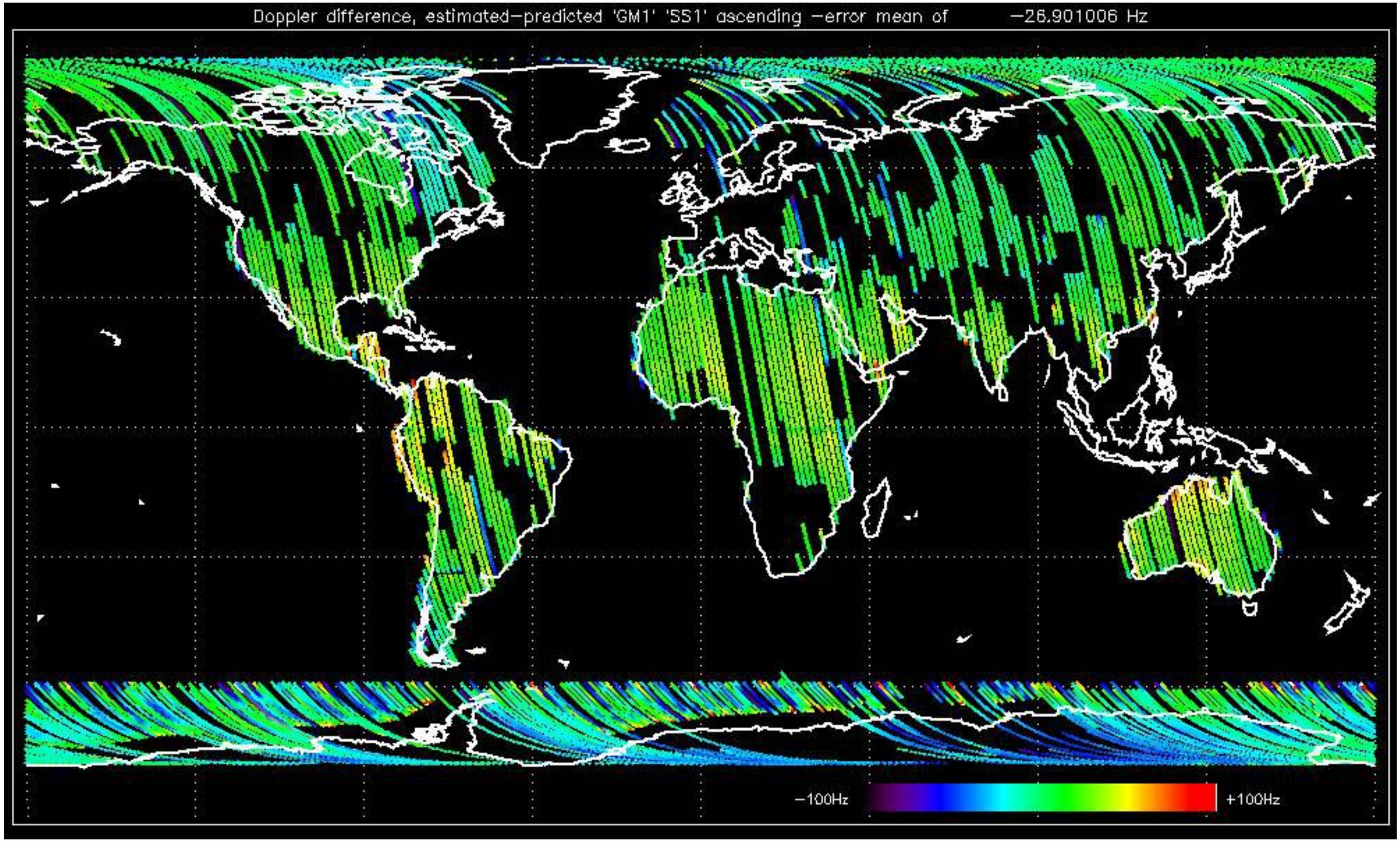

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

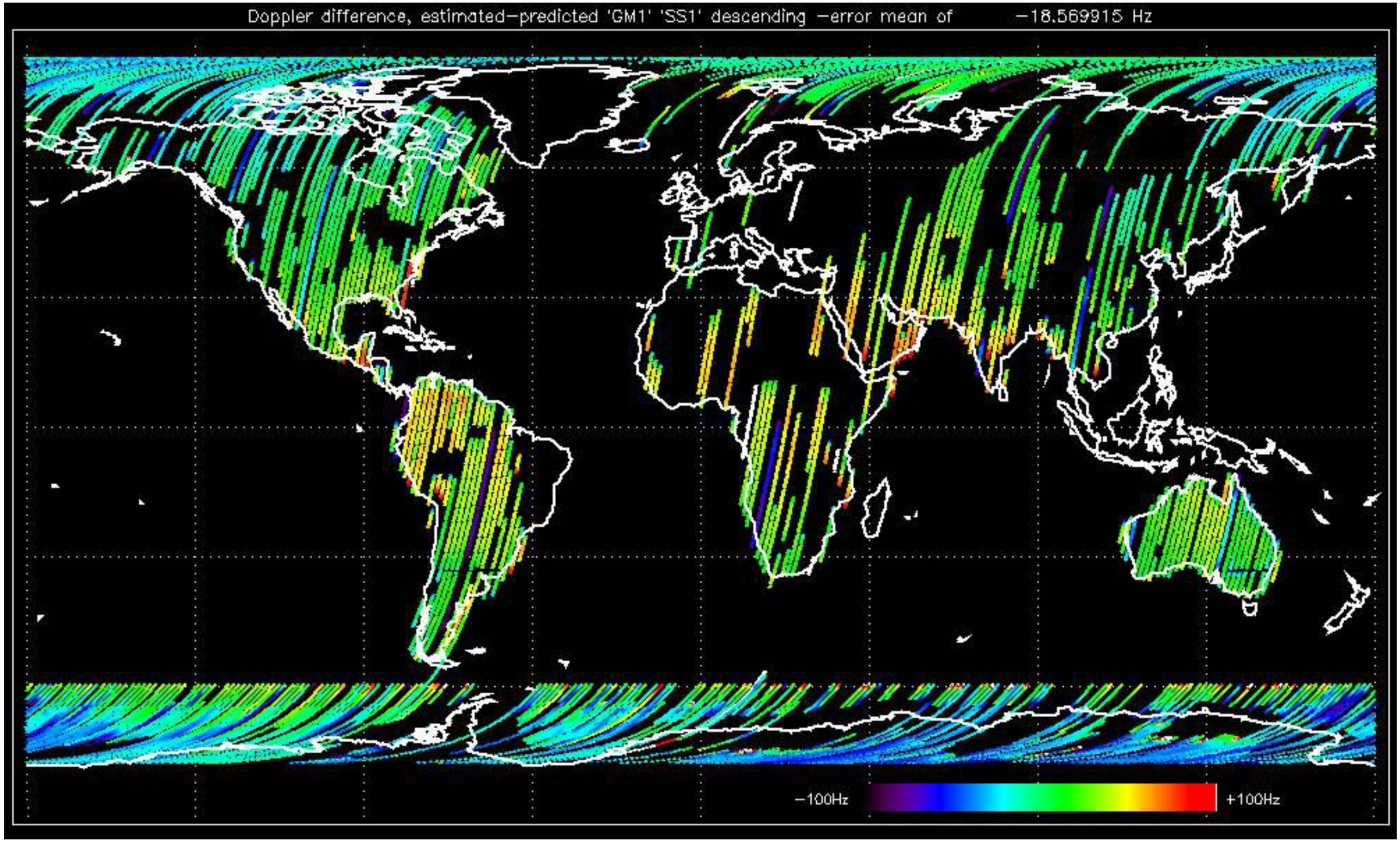

Doppler Bias[Hz]
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
19−Apr
Date

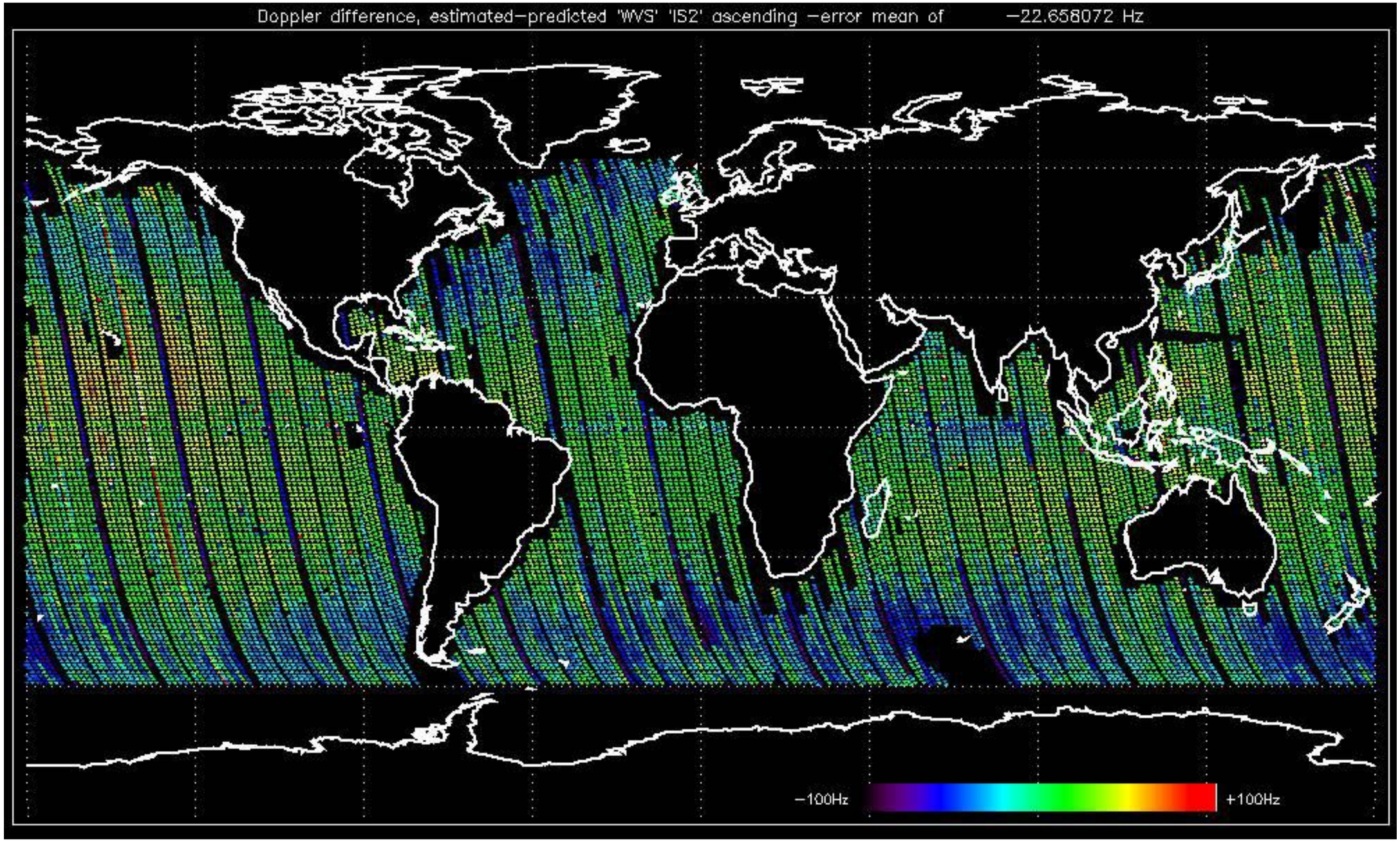

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

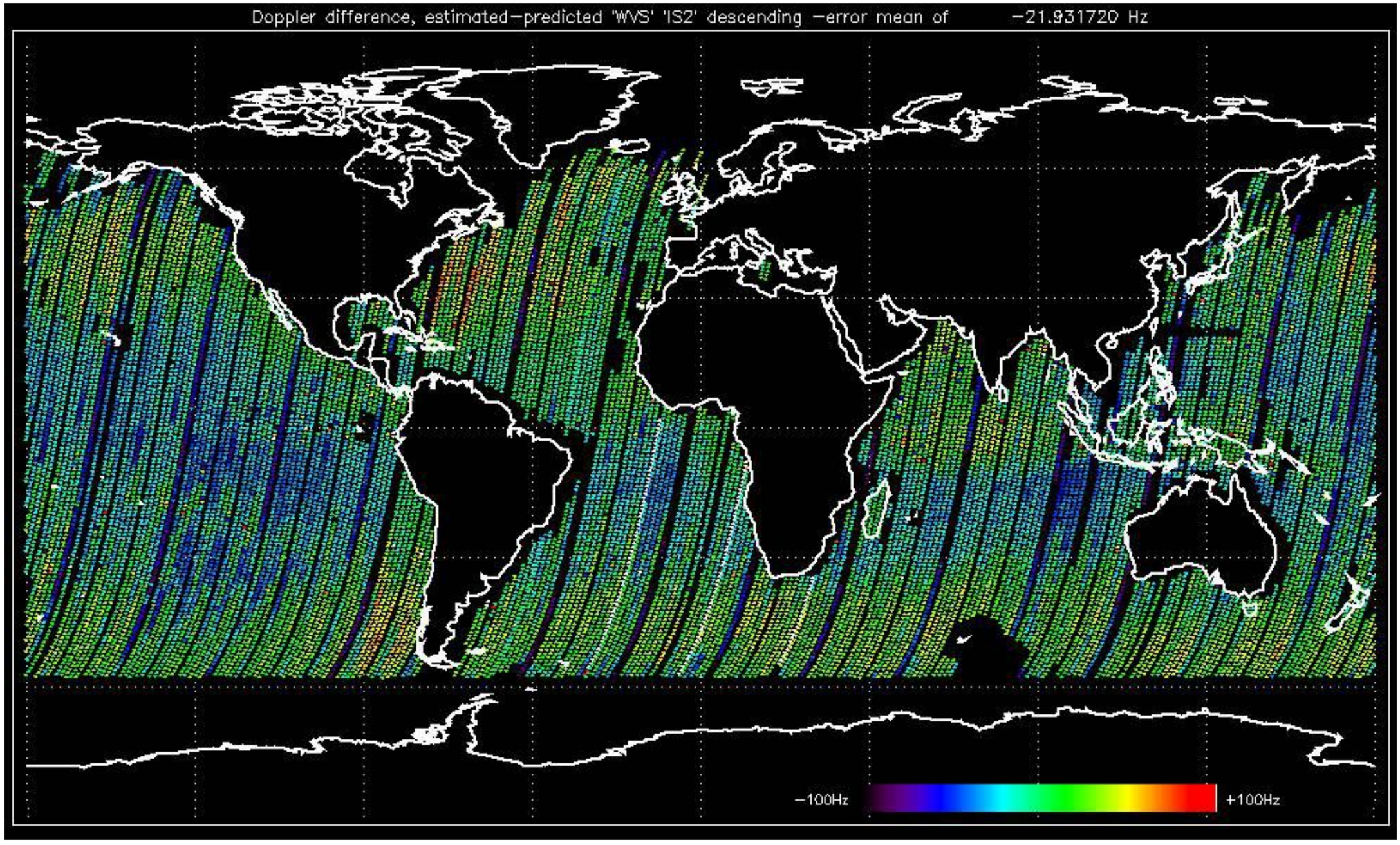

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −26.901006 Hz
−100Hz
+100Hz

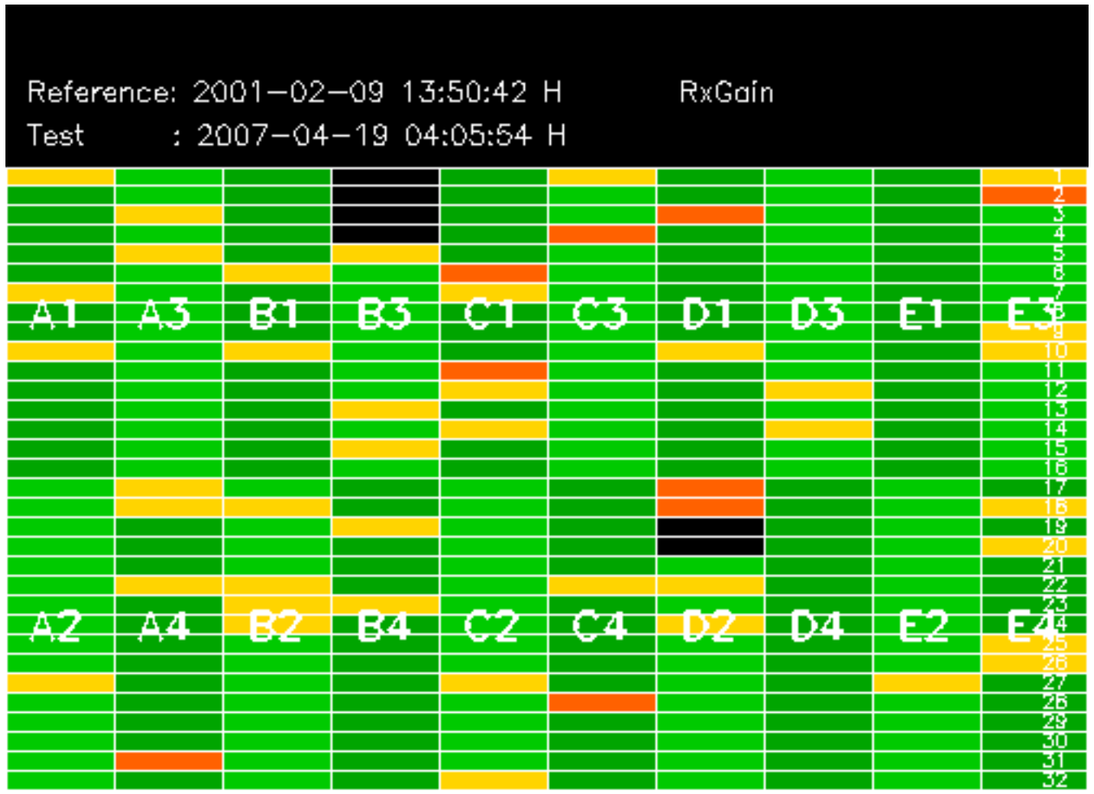

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -18.569915 Hz
-100Hz
+100Hz

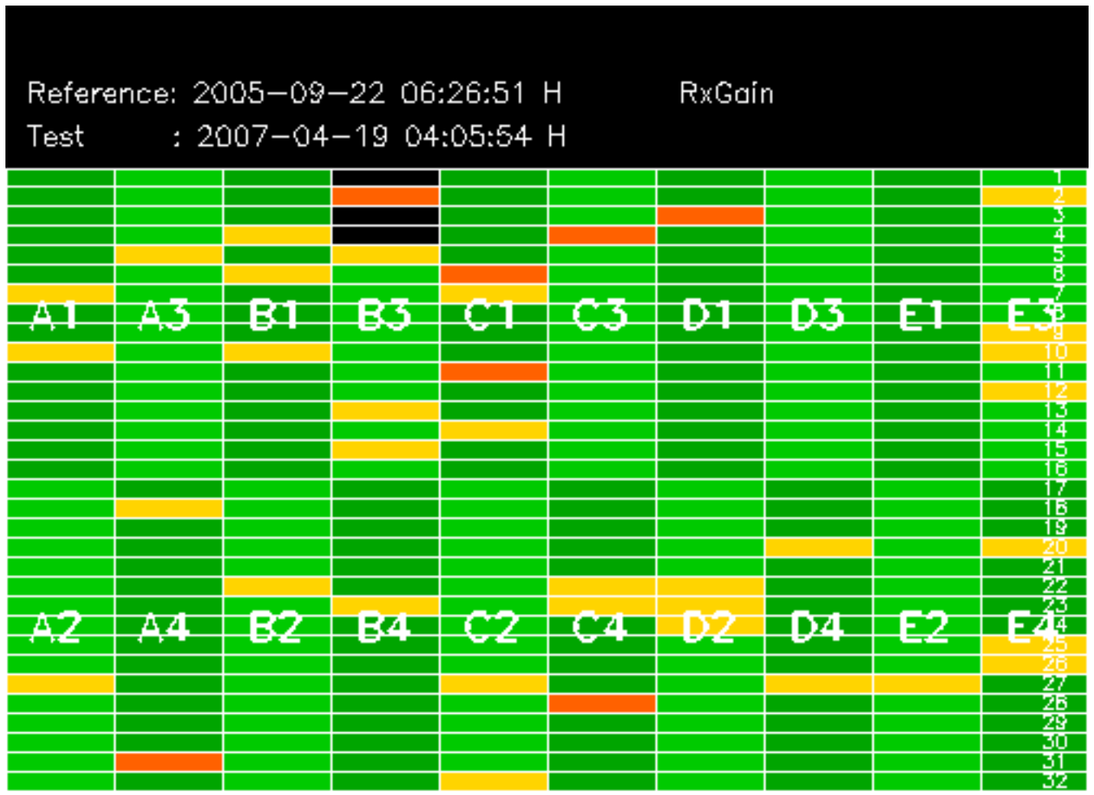

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −22.658072 Hz
−100Hz
+100Hz

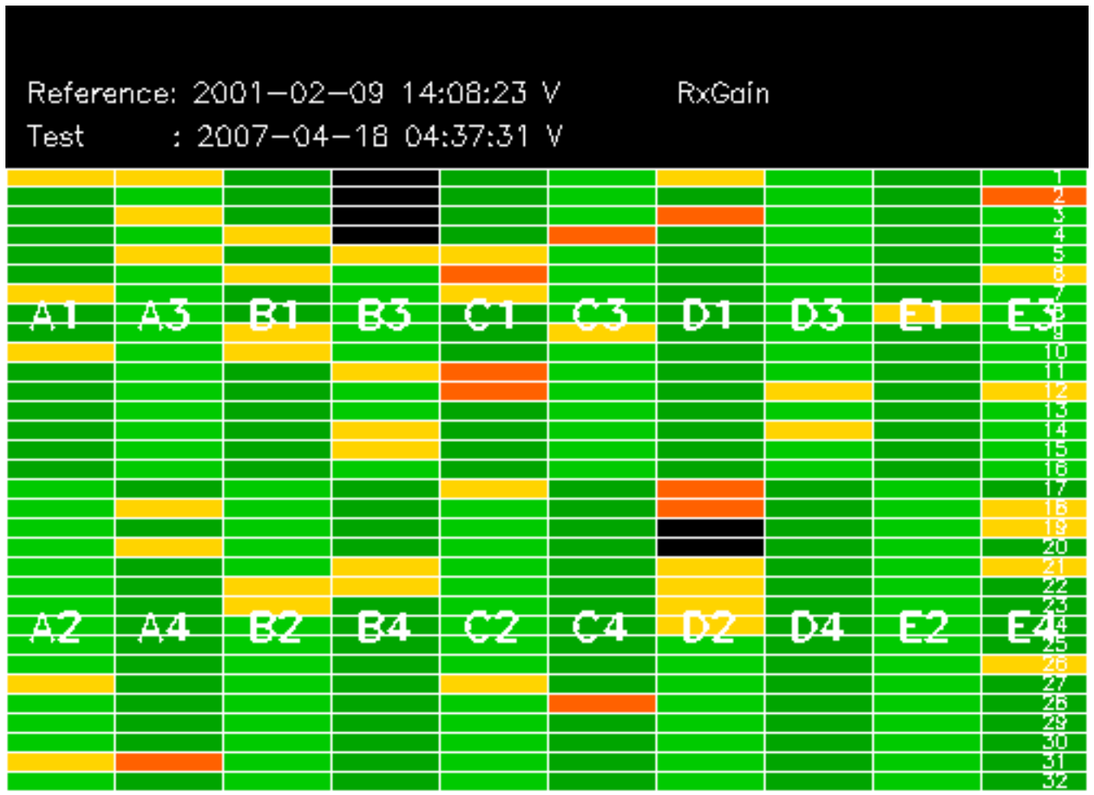

Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −21.931720 Hz
−100Hz
+100Hz

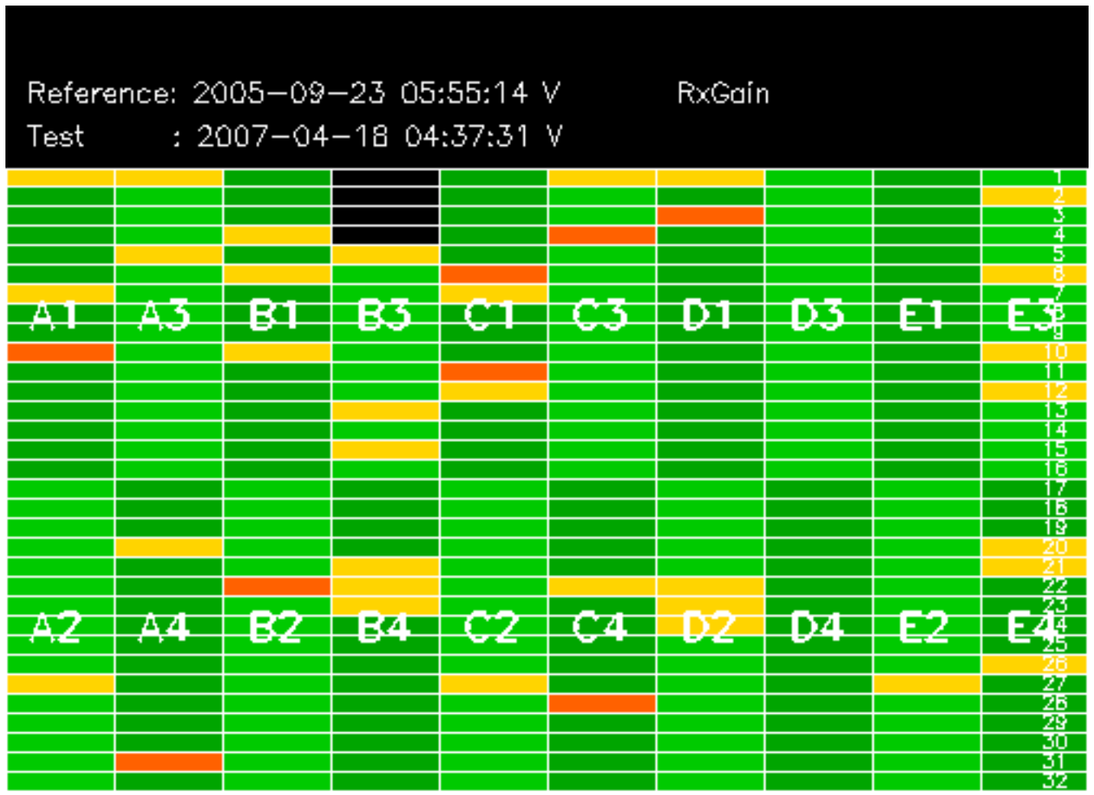
No anomalies observed on available MS products:

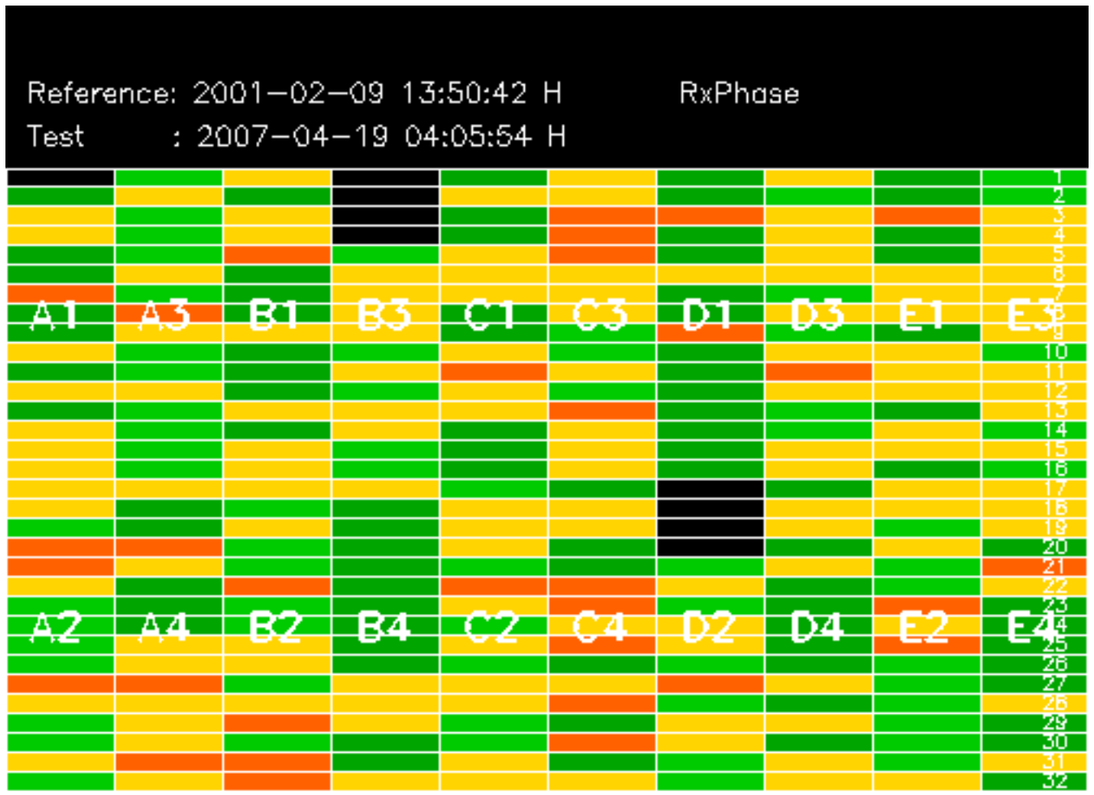
No anomalies observed.


Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2007-04-19 04:05:54 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 : 2007-04-19 04:05:54 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 : 2007-04-18 04:37:31 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 : 2007-04-18 04:37:31 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 : 2007-04-19 04:05:54 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: 2005-09-22 06:26:51 H
RxPhase
Test : 2007-04-19 04:05:54 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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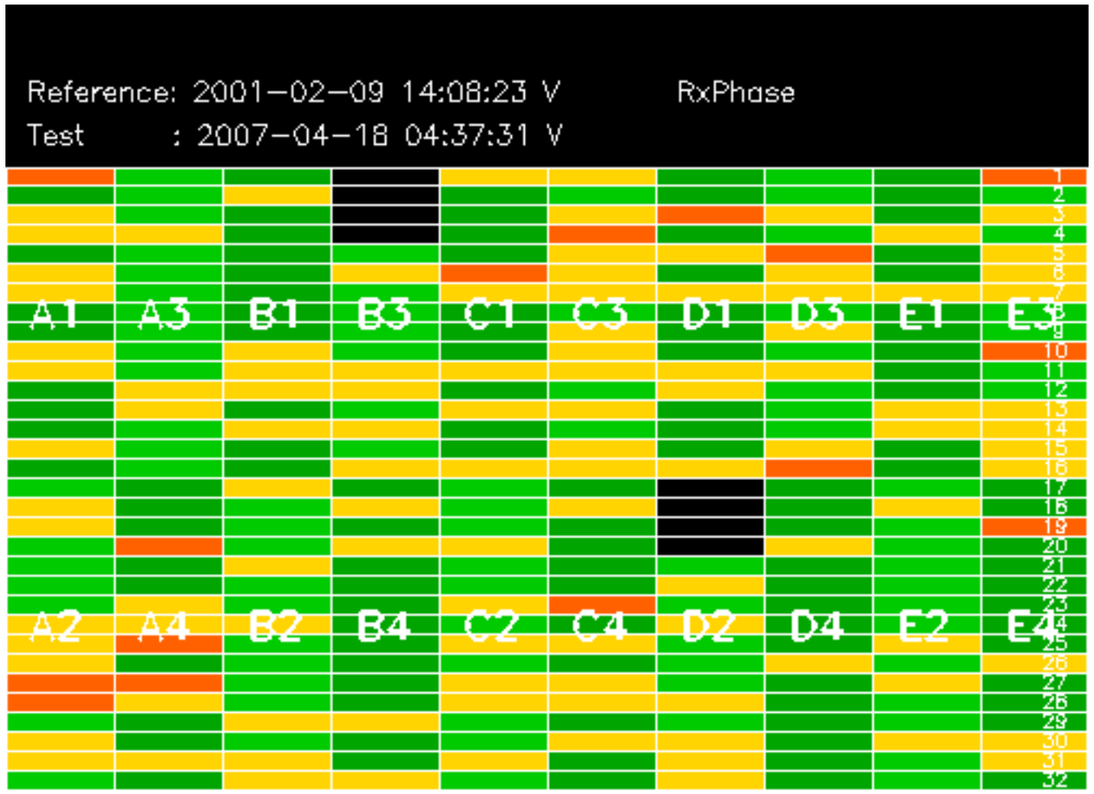
Reference: 2001-02-09 14:08:23 V
RxPhase
Test : 2007-04-18 04:37:31 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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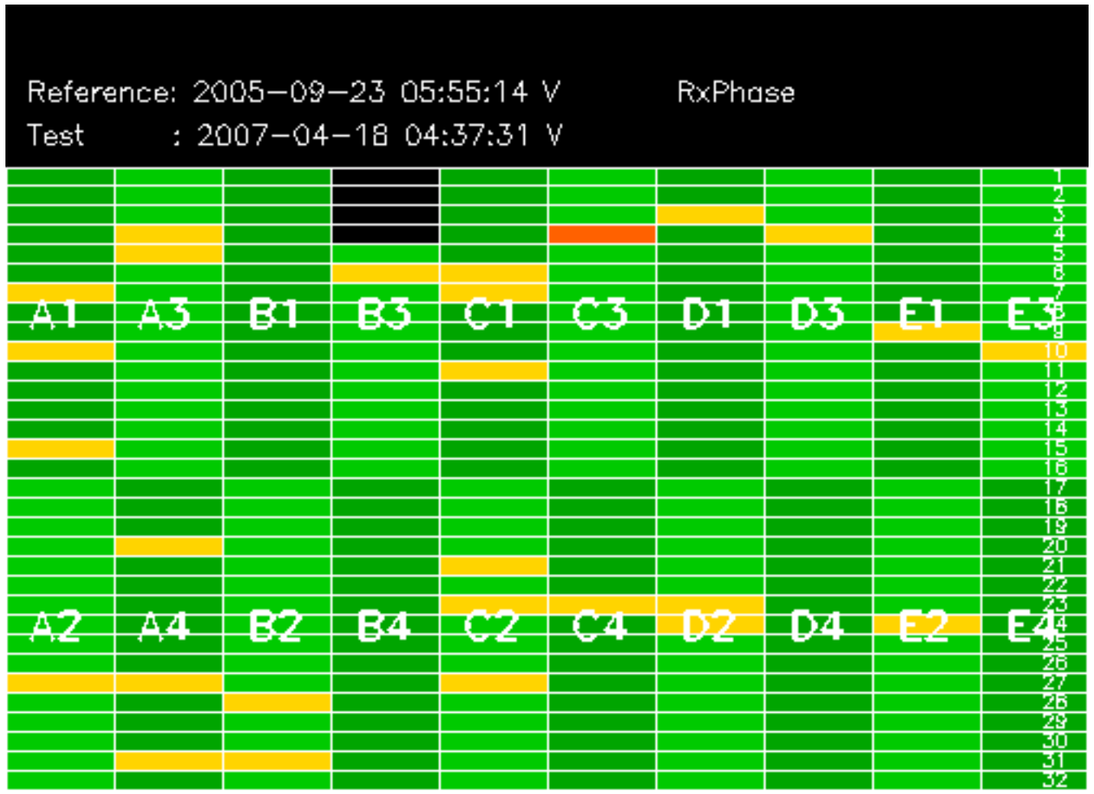
Reference: 2005-09-23 05:55:14 V
Test : 2007-04-18 04:37:31 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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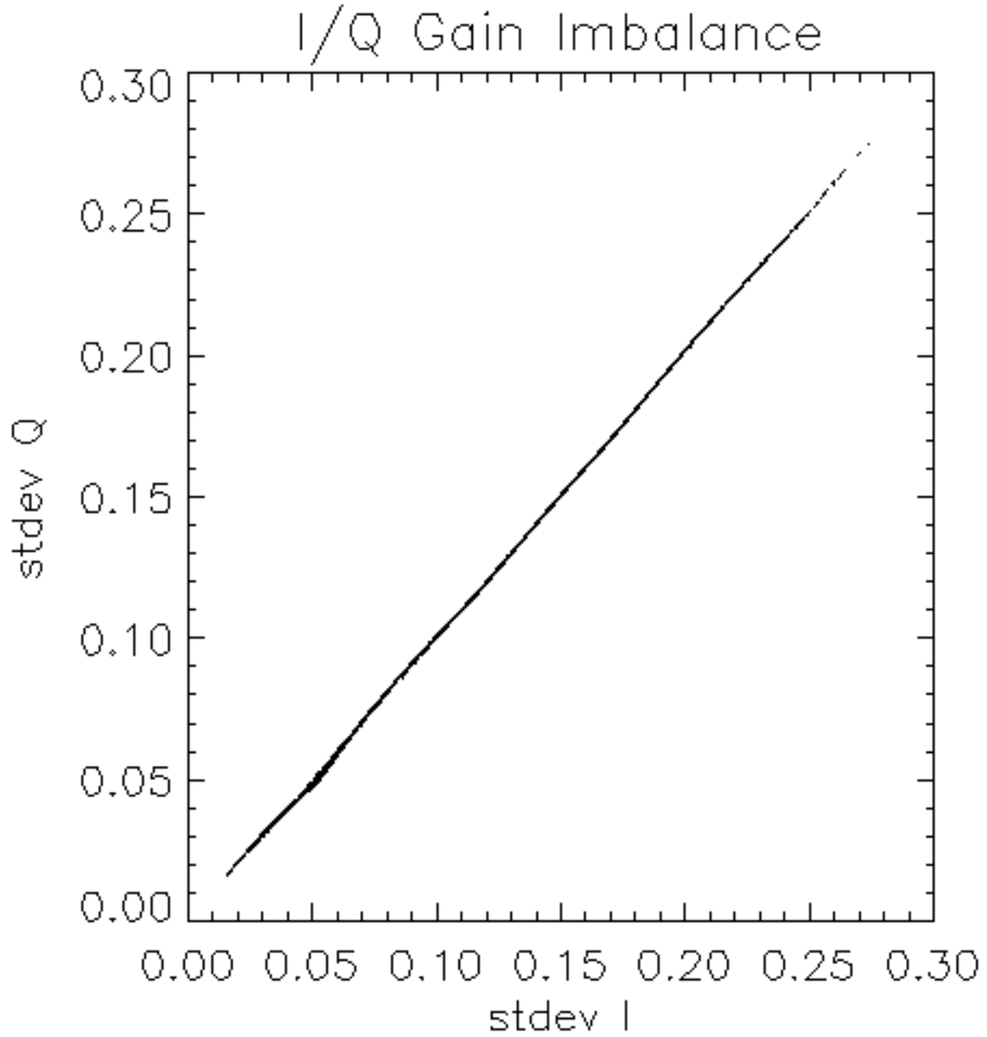
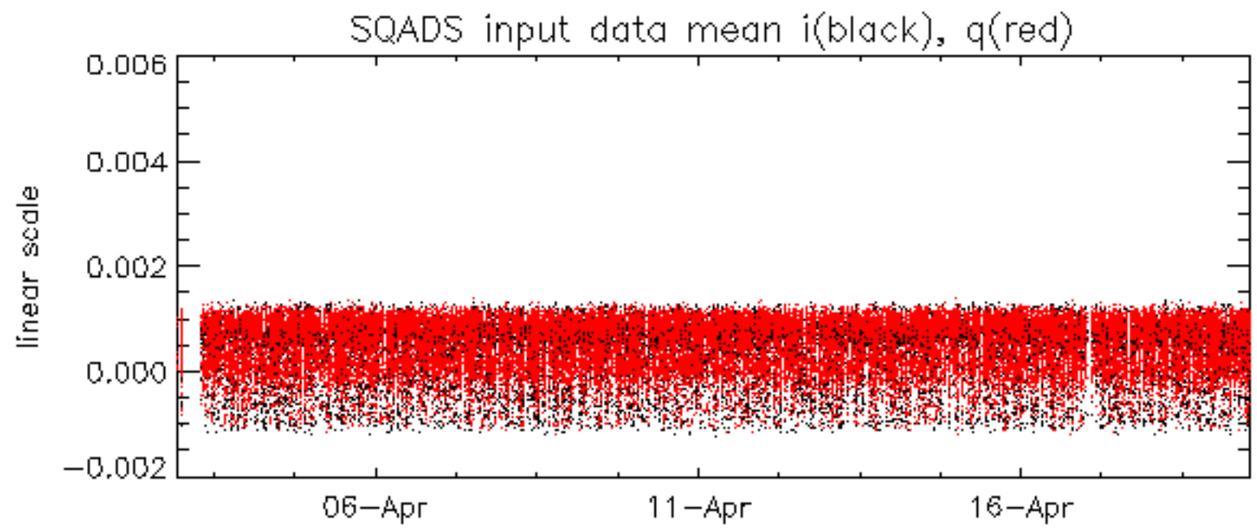
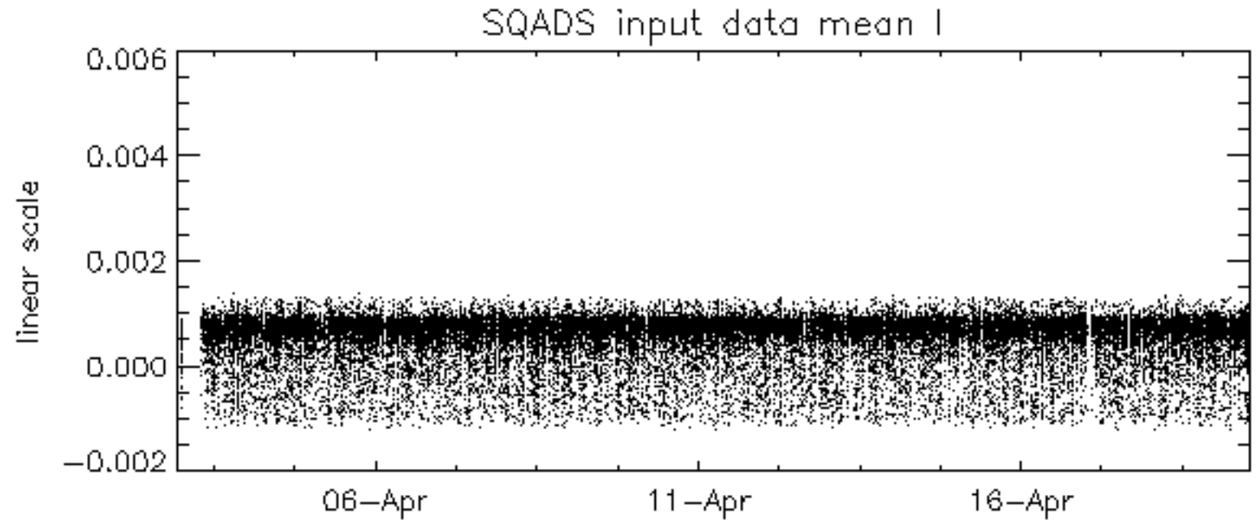
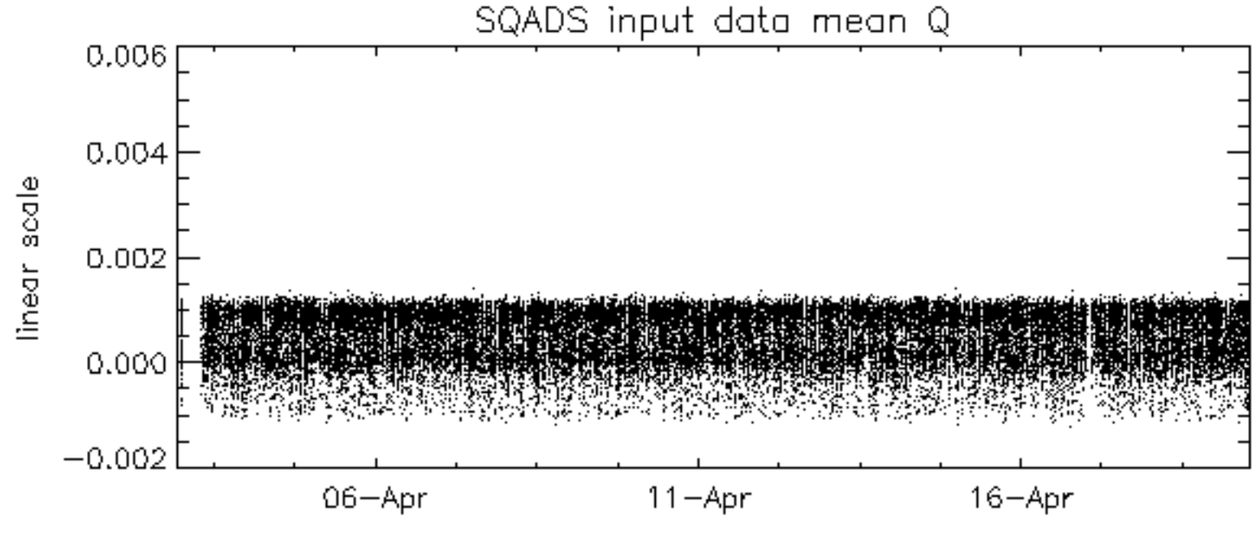
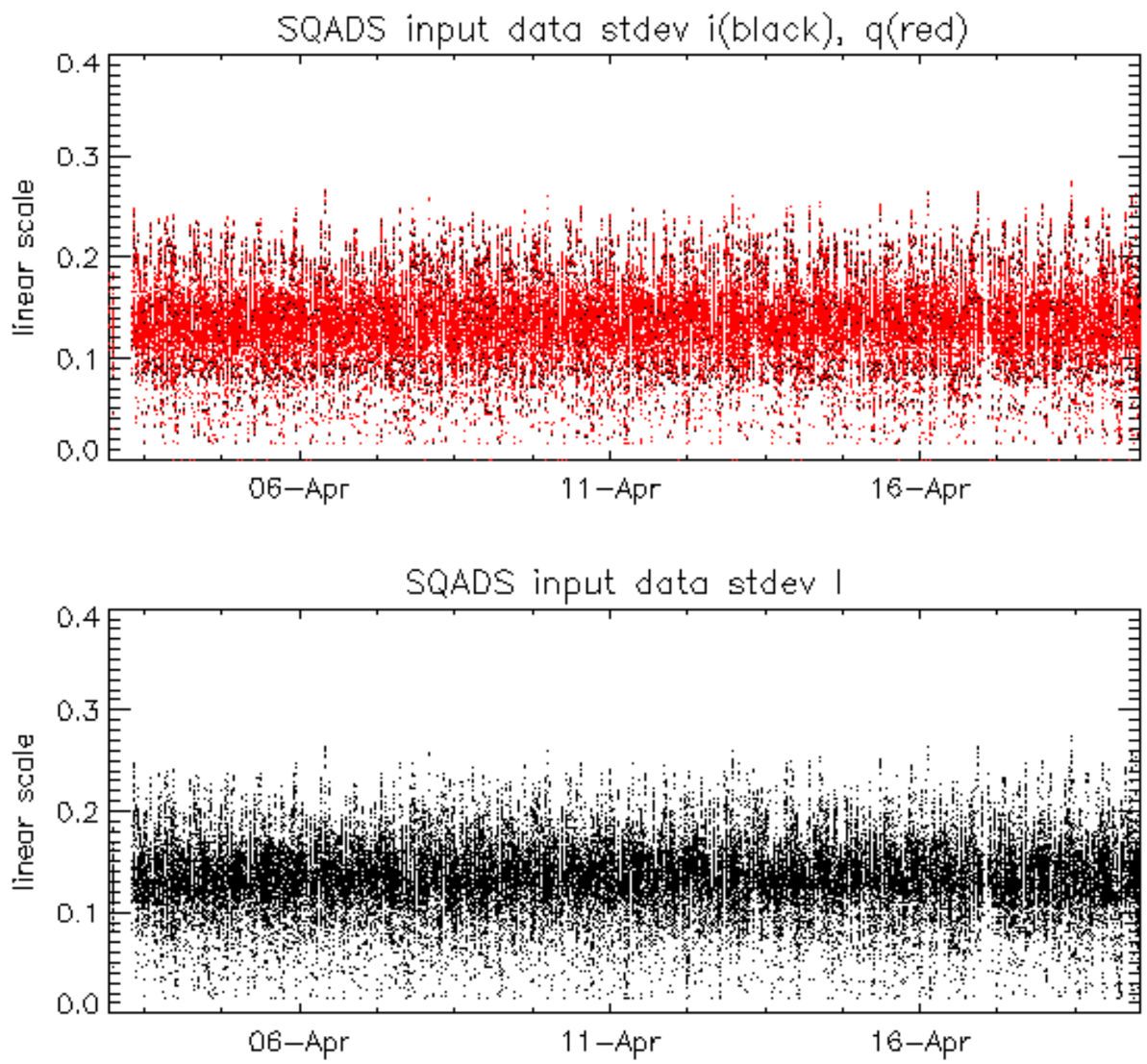
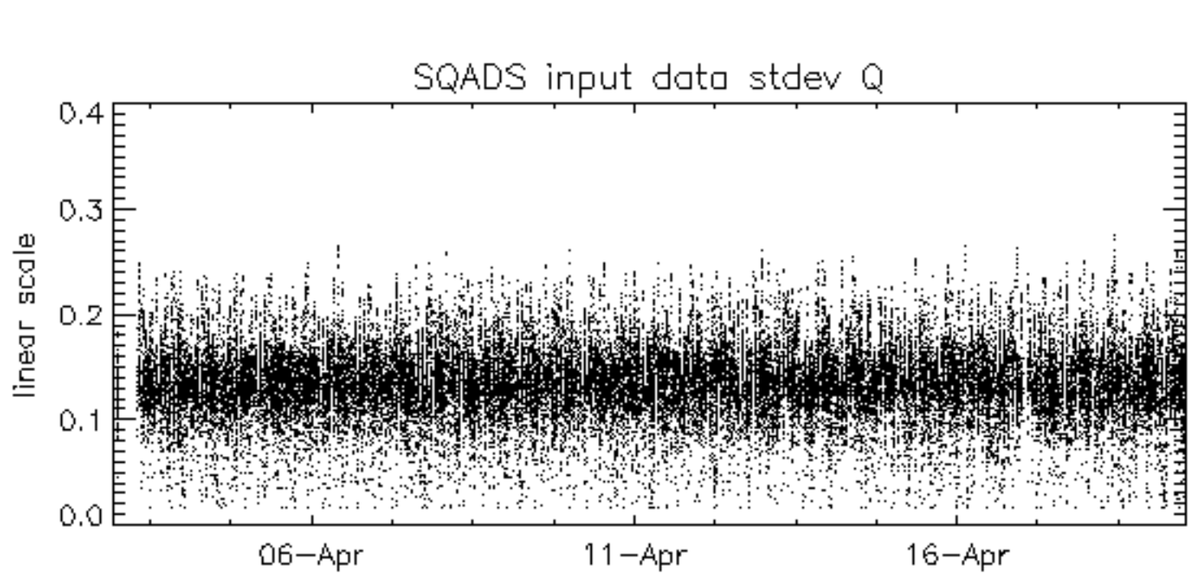

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I


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

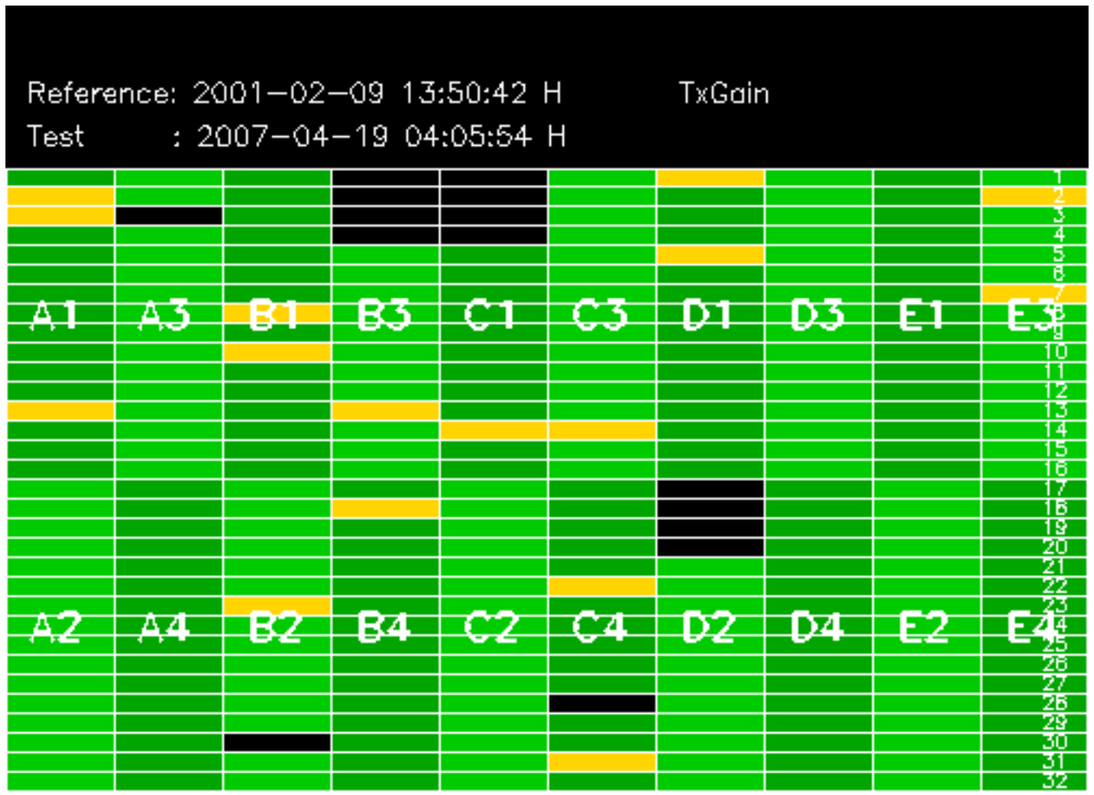

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Apr
11−Apr
16−Apr

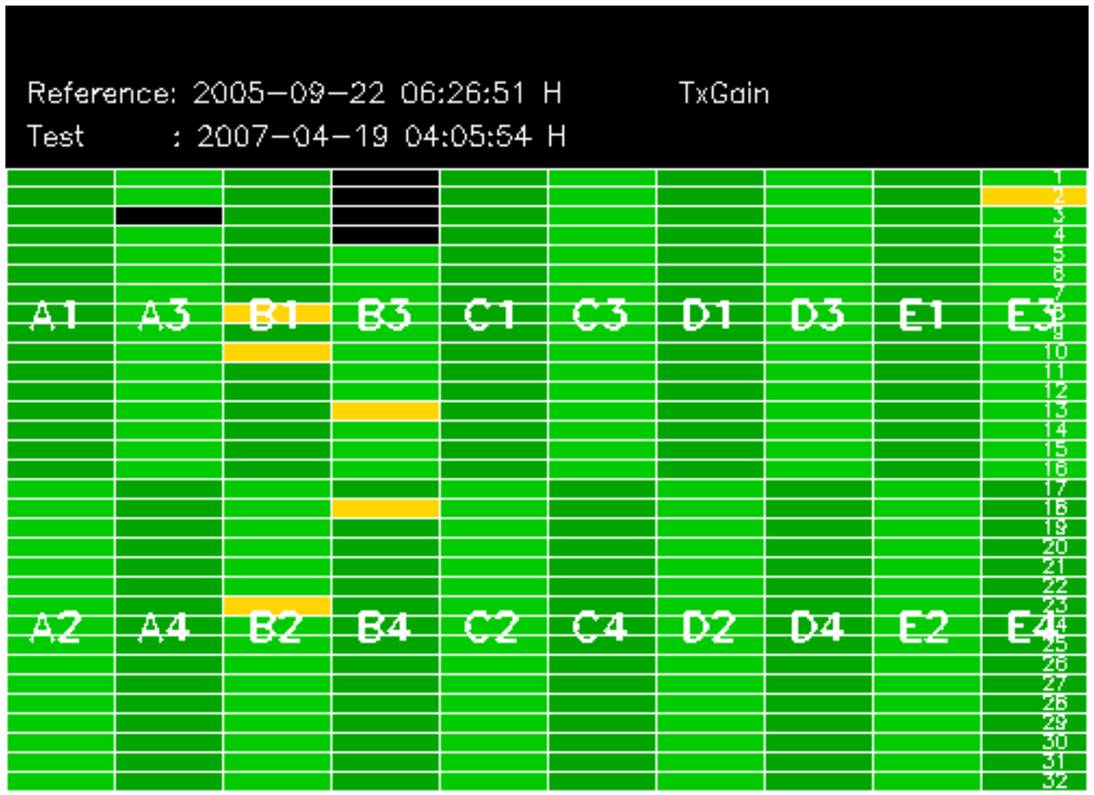

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Apr
11−Apr
16−Apr


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


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

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


Reference: 2001-02-09 13:50:42 H
Test : 2007-04-19 04:05:54 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 : 2007-04-19 04:05:54 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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E4
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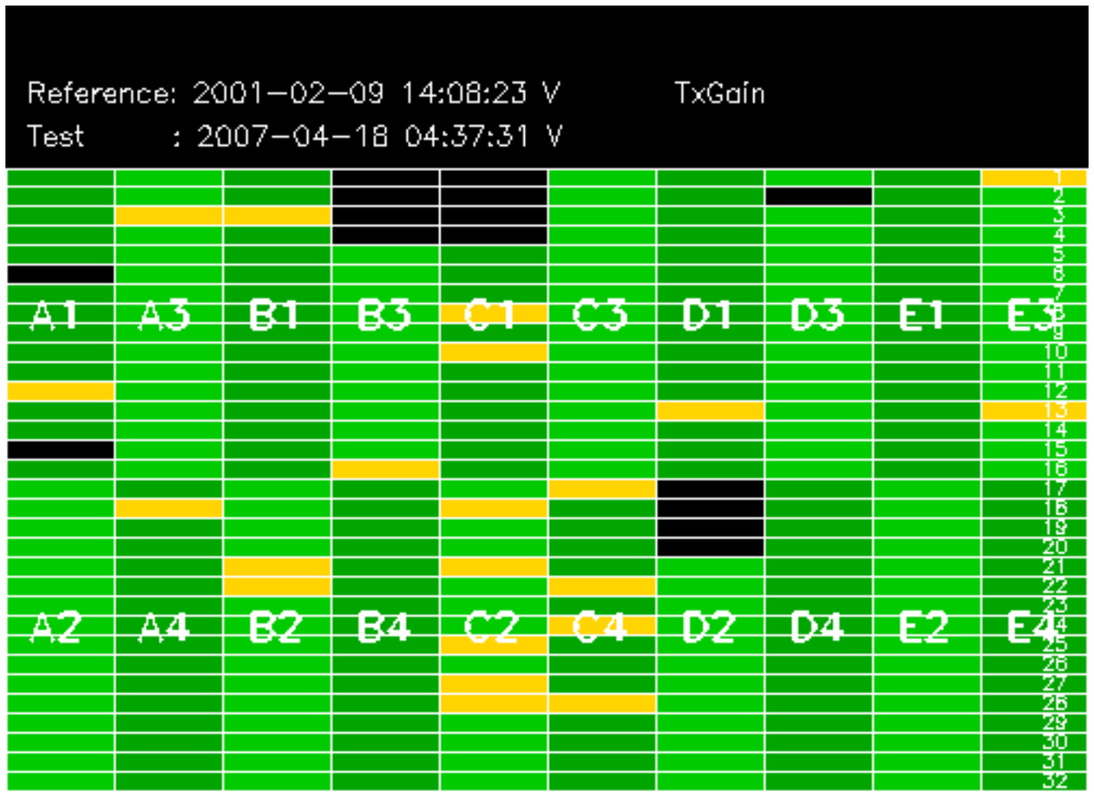
Reference: 2001-02-09 14:08:23 V
Test : 2007-04-18 04:37:31 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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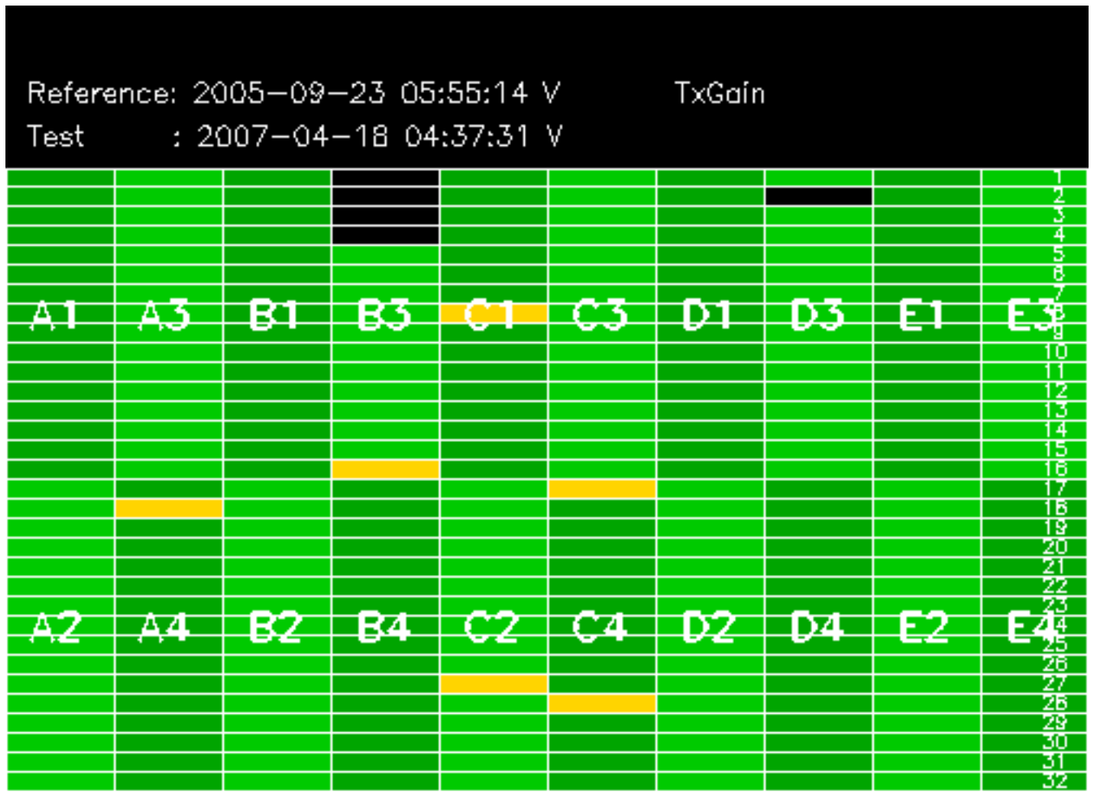
Reference: 2005-09-23 05:55:14 V
Test : 2007-04-18 04:37:31 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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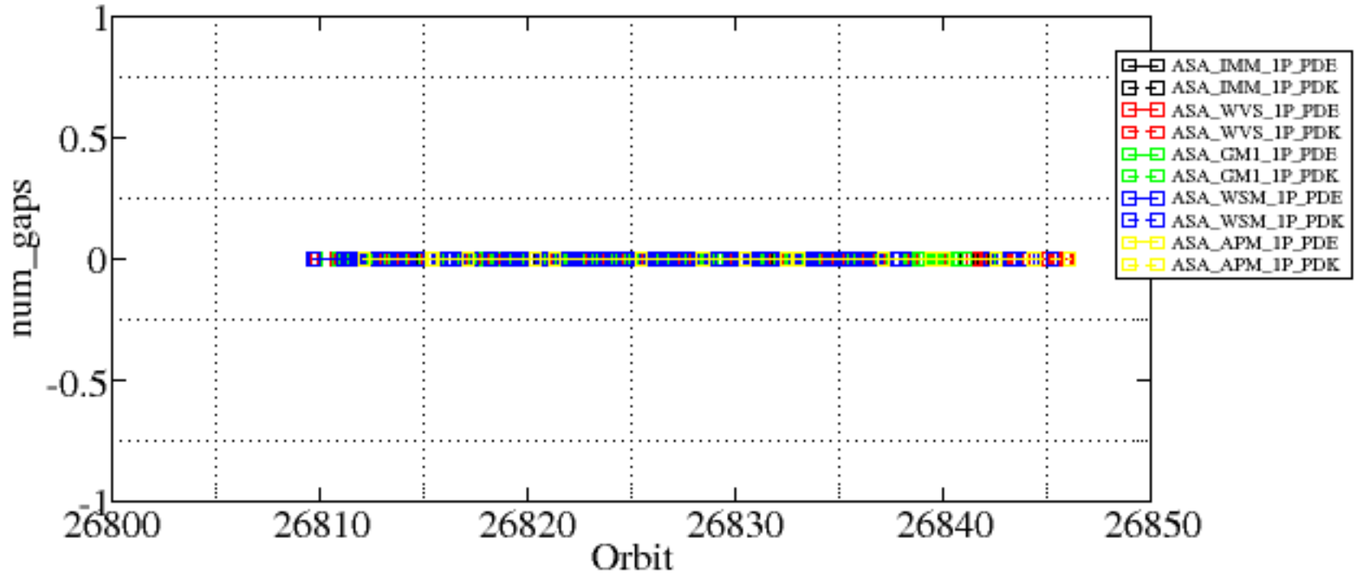
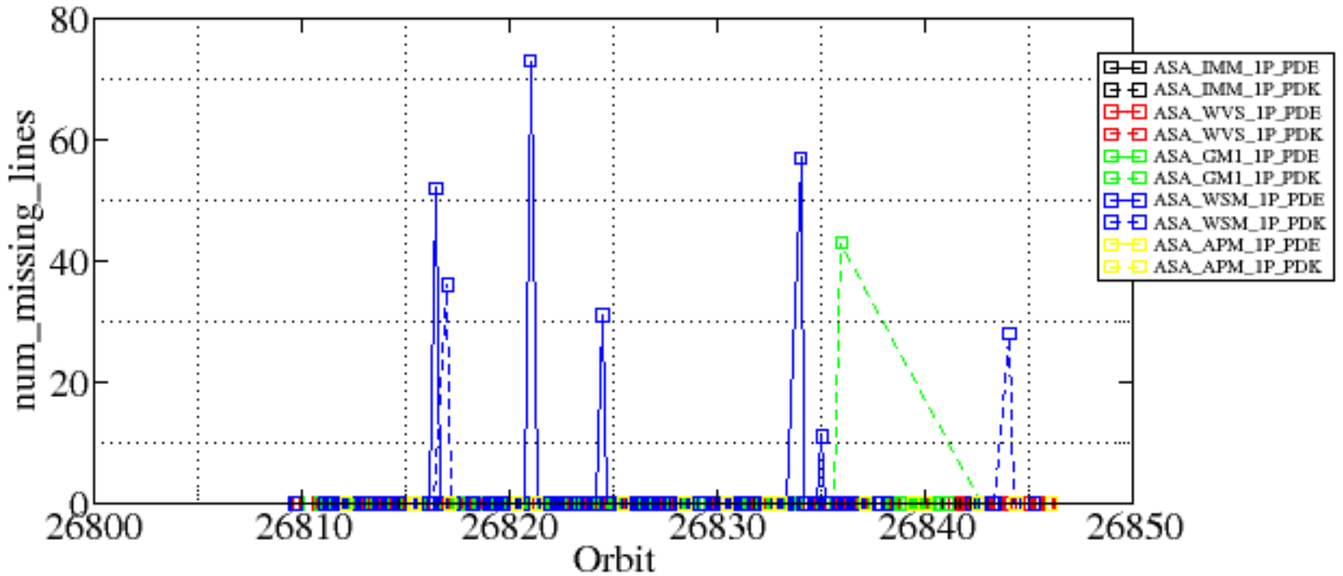
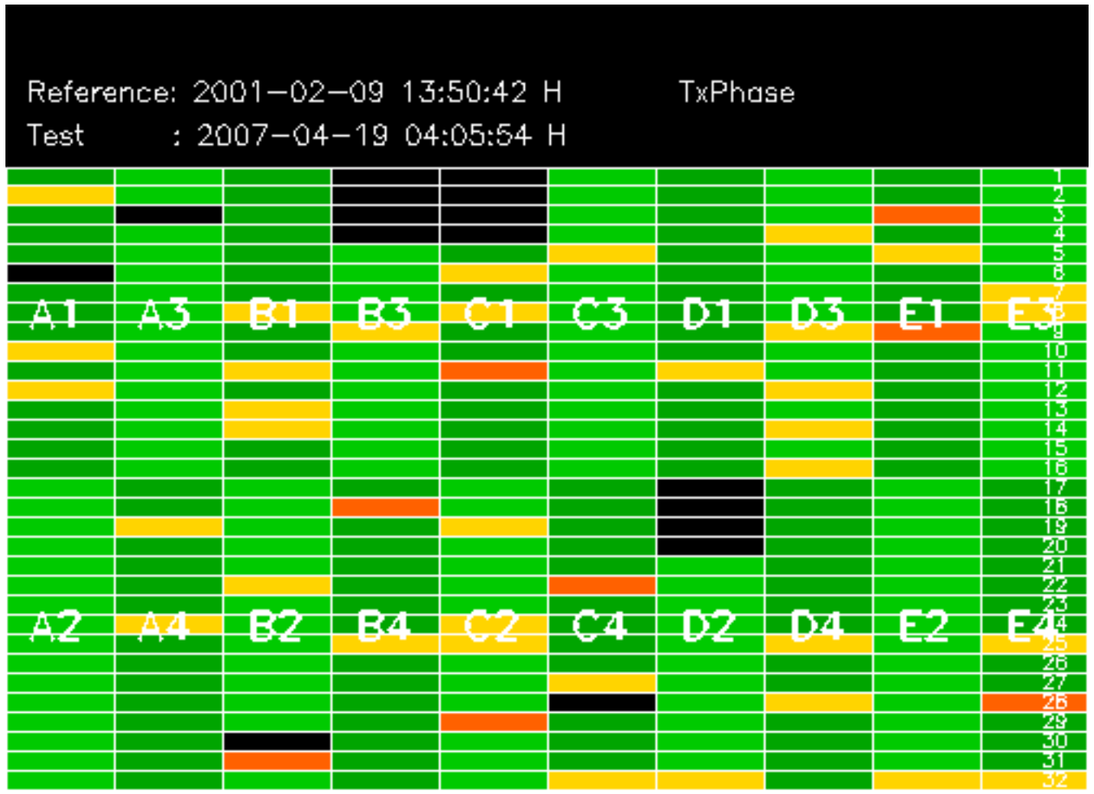
Summary of analysis for the last 3 days 2007041[789]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_GM1_1PNPDK20070418_201215_000007792057_00228_26835_3683.N1 </td> <td>0 </td> <td>43 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070417_112928_000000852057_00209_26816_5448.N1 </td> <td>0 </td> <td>52 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070417_190808_000001712057_00214_26821_5641.N1 </td> <td>0 </td> <td>73 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070418_005604_000000852057_00217_26824_6083.N1 </td> <td>0 </td> <td>31 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070418_165614_000001522057_00227_26834_6862.N1 </td> <td>0 </td> <td>57 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070418_184029_000002312057_00228_26835_6864.N1 </td> <td>0 </td> <td>11 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20070417_122637_000001462057_00210_26817_1935.N1 </td> <td>0 </td> <td>36 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20070419_094719_000000852057_00237_26844_4060.N1 </td> <td>0 </td> <td>28 </td></tr>
</table>


num_gaps
1
0.5
0
-0.5
-1
26800
26810
26820
26830
26840
26850
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
26800
26810
26820
26830
26840
26850
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 : 2007-04-19 04:05:54 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
E2
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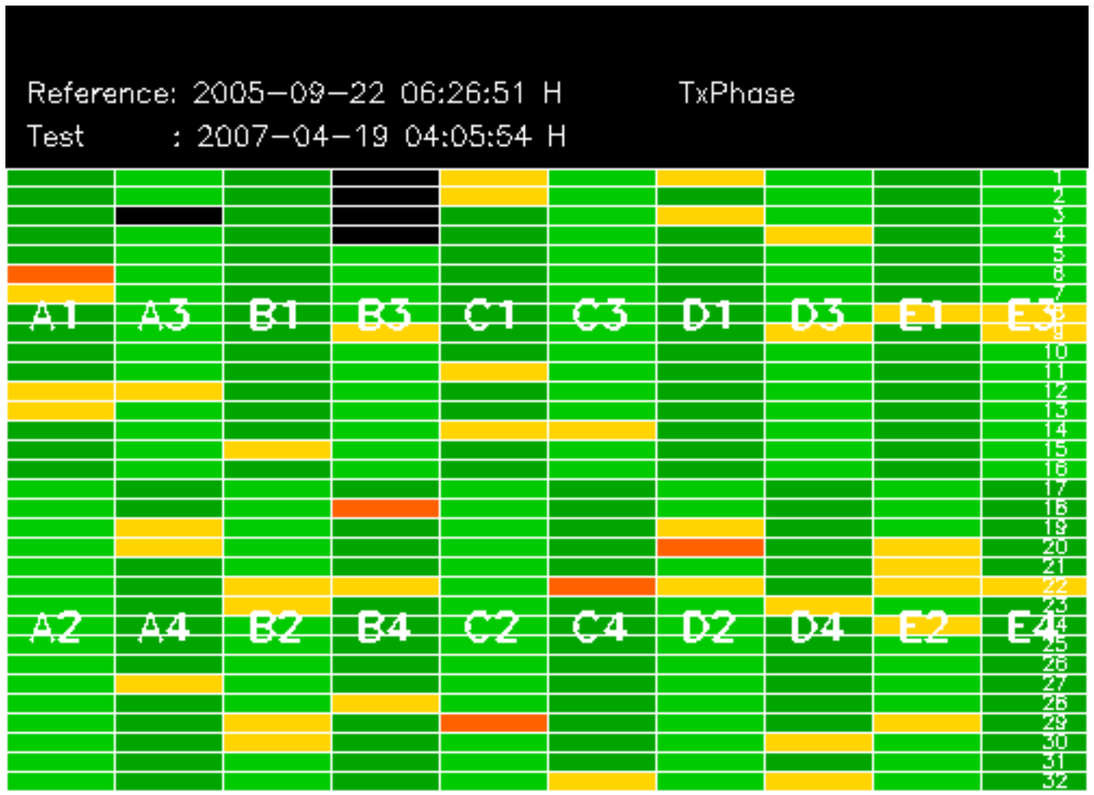
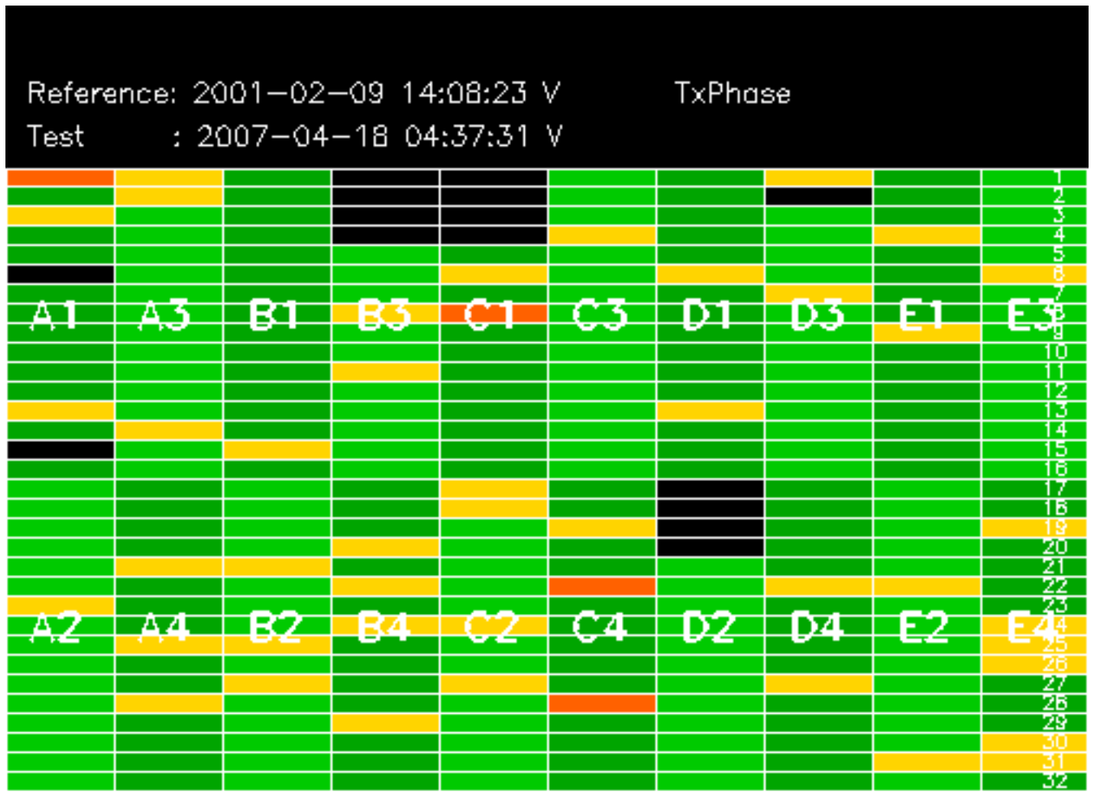

Reference: 2005-09-22 06:26:51 H
TxPhase
Test : 2007-04-19 04:05:54 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2007-04-18 04:37:31 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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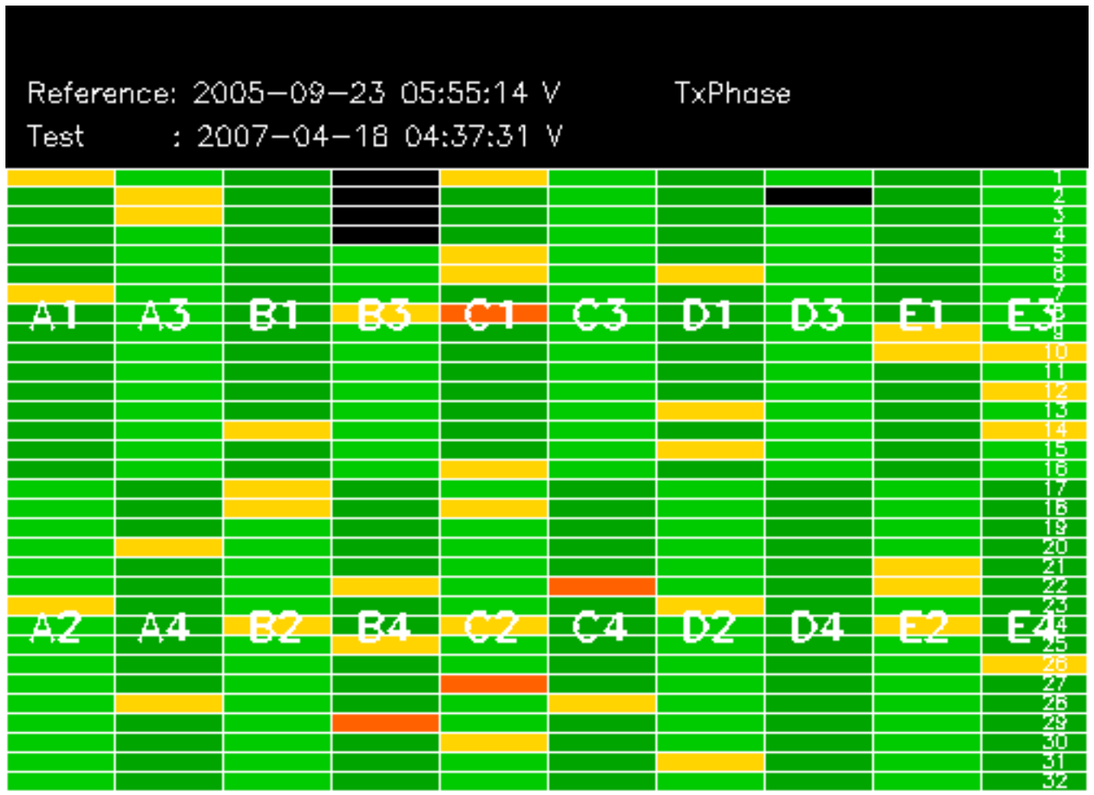
Reference: 2005-09-23 05:55:14 V
Test : 2007-04-18 04:37:31 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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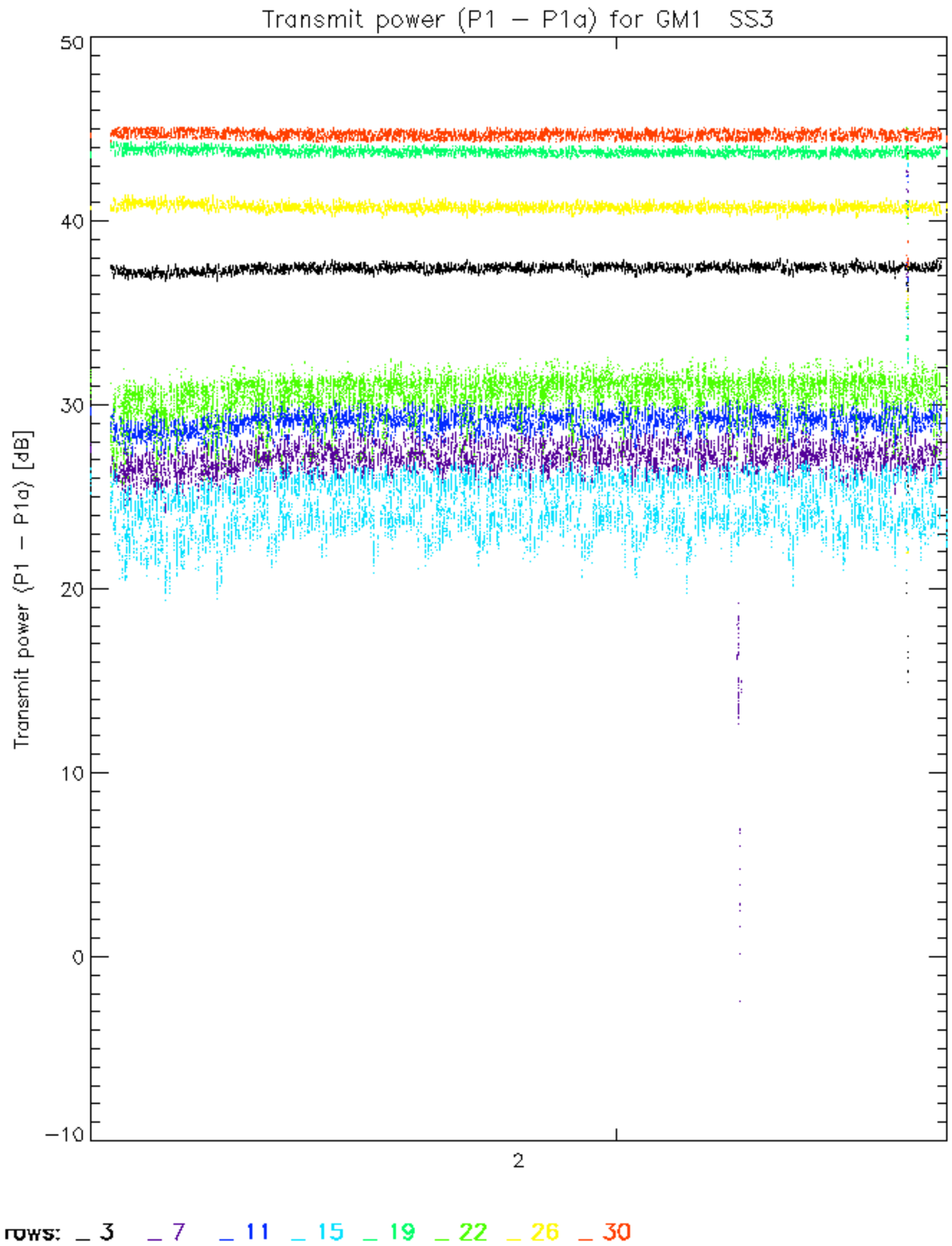
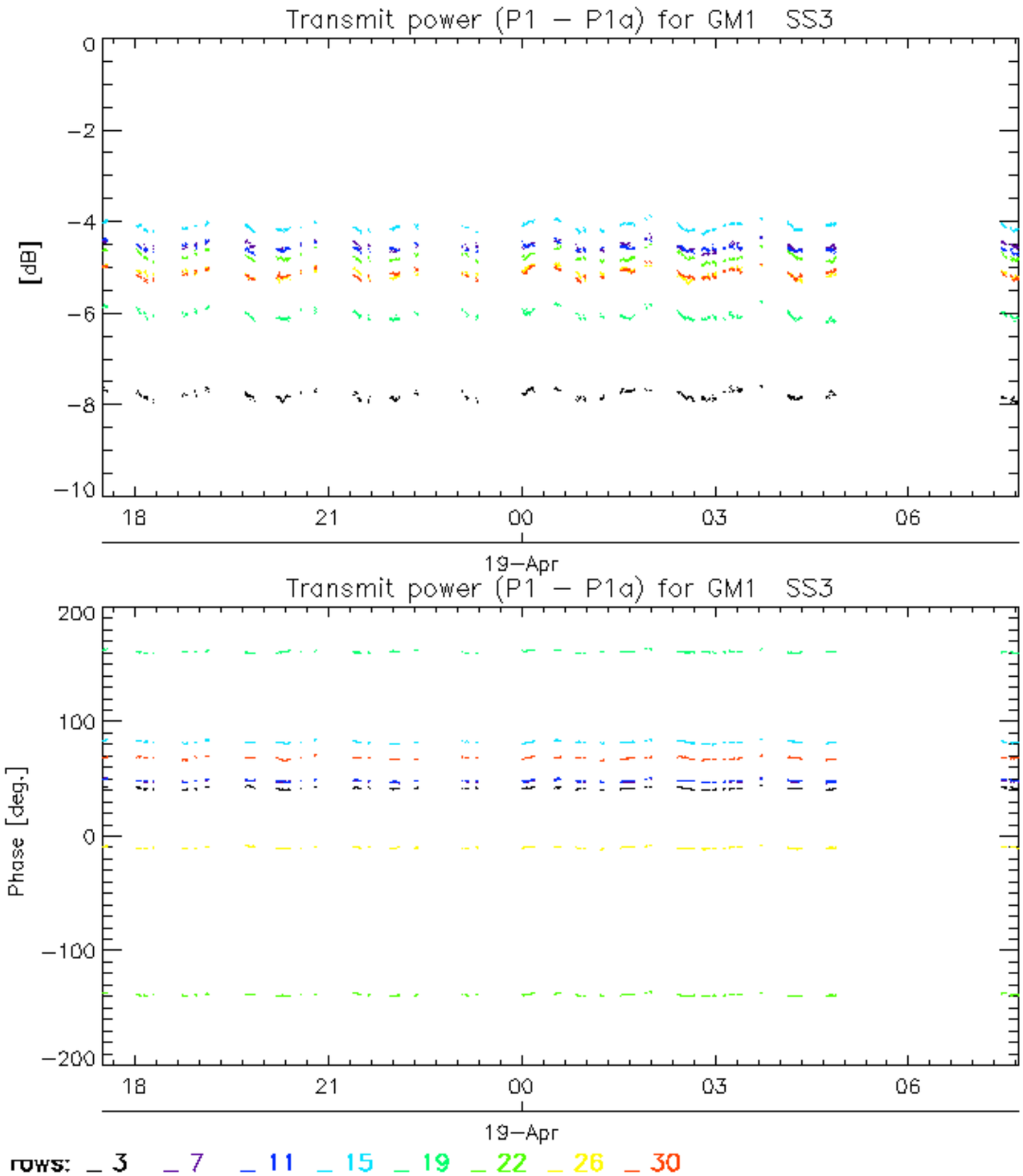
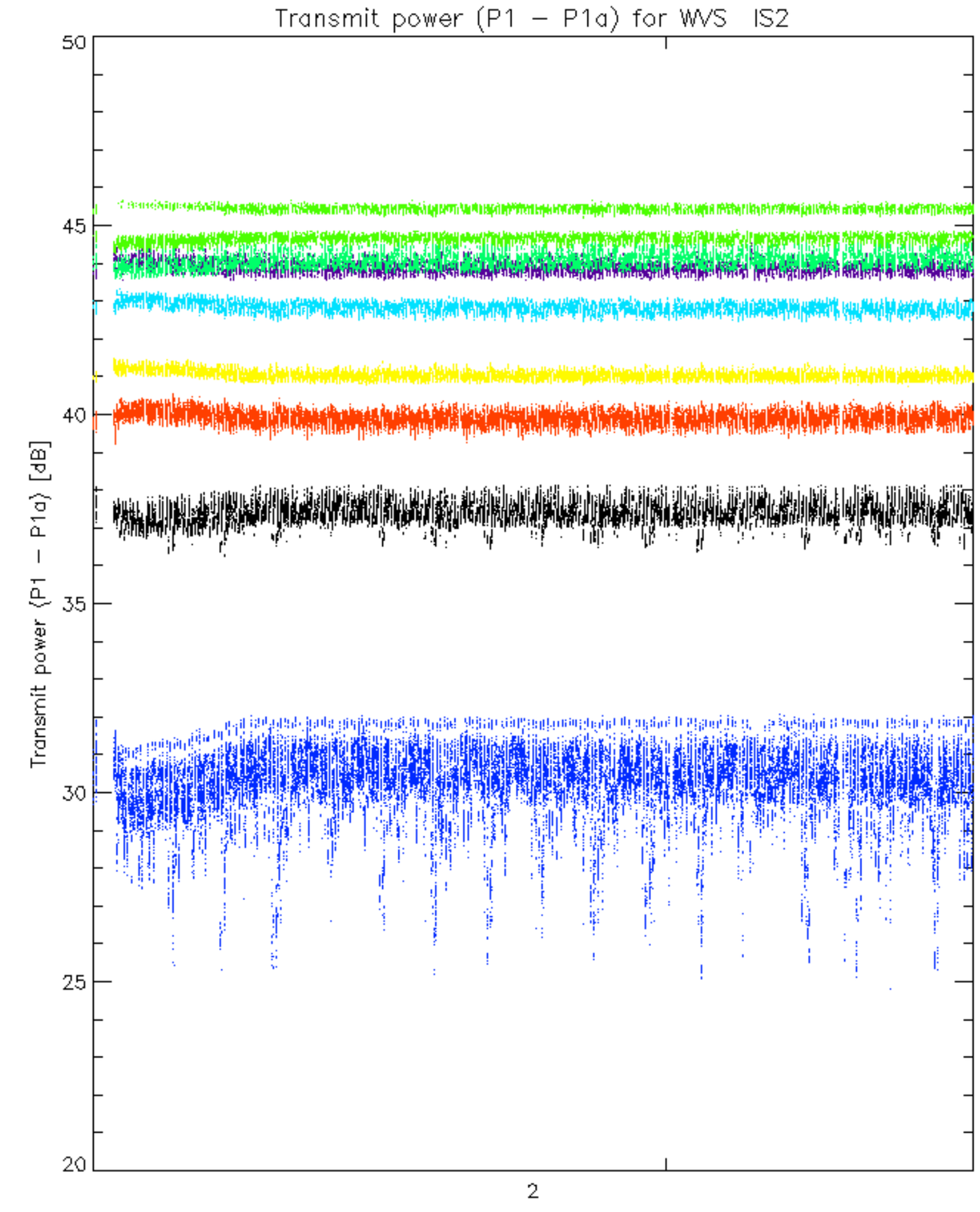
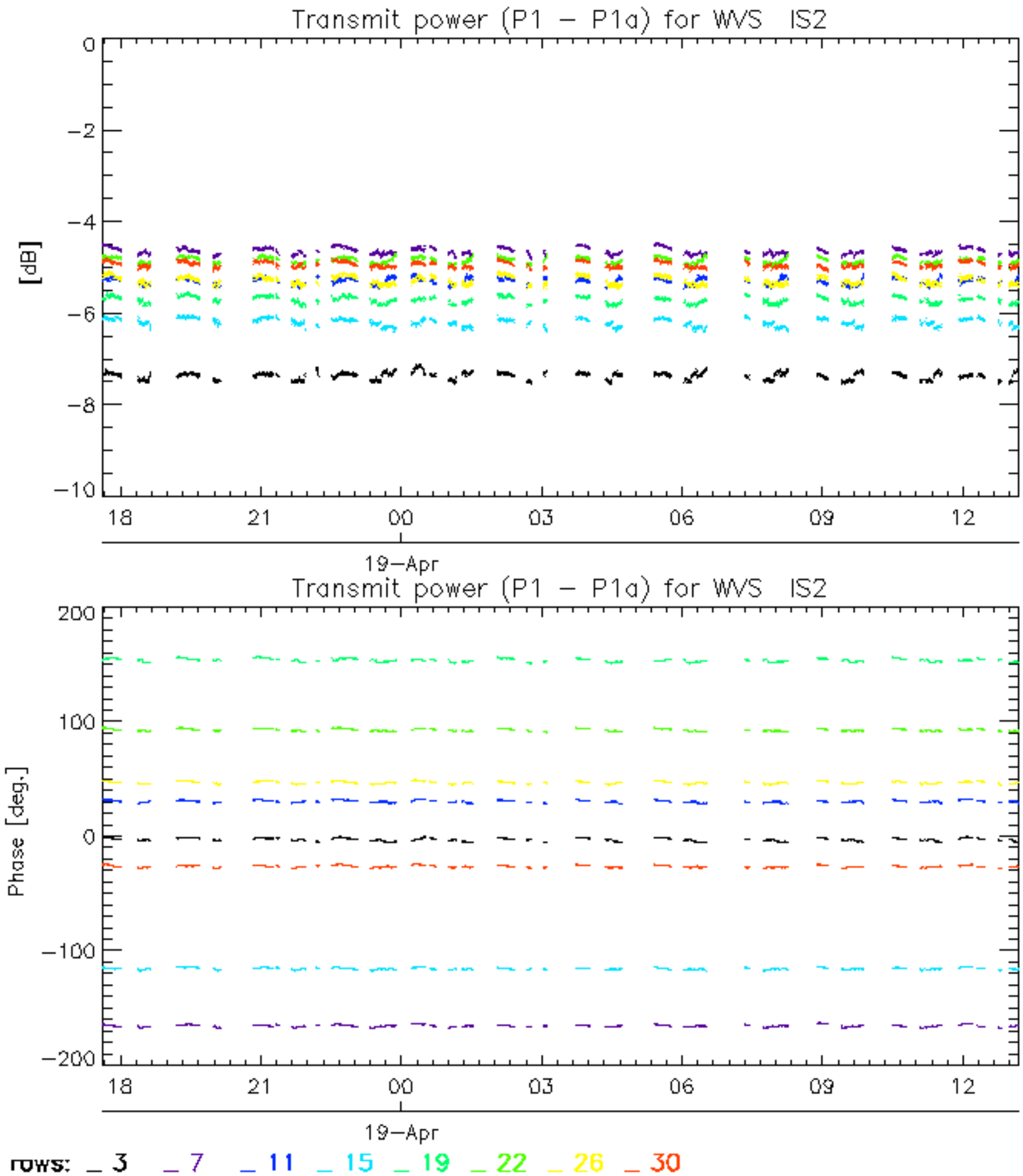

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
2
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
19–Apr
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
19–Apr
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
2
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
09
12
19–Apr
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
09
12
19–Apr
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.