# PRELIMINARY REPORT OF 060514

### last update on Sun May 14 16:38:29 GMT 2006


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## 1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA_WVS_1P), global monitoring products (ASA_GM1_1P), which are the available few hours after the acquisition, on the browse (BP) products and
on the Module Stepping (MS) product.

## 2 - Summary

### 2.1 - Instrument Unavailability

No unavailabilities during the reported period.

### 2.2 - Auxiliary files

**Summary of the auxiliary files used from 2006-05-13 00:00:00 to 2006-05-14 16:38:29**

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

| | | | | | |
|---|---|---|---|---|---|
| ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000 | 41 | 61 | 18 | 0 | 23 |
| ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000 | 41 | 61 | 18 | 0 | 23 |
| ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000 | 41 | 61 | 18 | 0 | 23 |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 41 | 61 | 18 | 0 | 23 |

| PDHS-E | | | | | |
|---|---|---|---|---|---|
| **AUXILIARY FILE** | **WVS** | **GM1** | **IMM** | **APM** | **WSM** |
| ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000 | 36 | 53 | 63 | 17 | 29 |
| ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000 | 36 | 53 | 63 | 17 | 29 |
| ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000 | 36 | 53 | 63 | 17 | 29 |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 36 | 53 | 63 | 17 | 29 |

### 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 | 20060512 063524 |
| H | 20060513 060347 |

**MSM in V/V polarisation**

| Pre-launch Reference | DDS-B (2003-06-12) reference |
|---|---|
| | |
| | |
| | |
| | |

**MSM in H/H polarisation**

| Pre-launch Reference | DDS-B (2003-06-12) reference |
|---|---|
| | |
| | |
| | |
| | |

# 4 - Internal calibration Results

No anomalies observed.

## 4.1 - Daily statistics

### 4.1.1 - Evolution for WVS

| Evolution of cal pulses for WVS |
|---|
| |
| |

### 4.1.2 - Evolution for GM1

| Evolution of cal pulses for GM1 |
|---|
| |
| |

## 4.2 - Cyclic statistics

### 4.2.1 - Evolution for WVS

| Evolution of cal pulses for WVS |
|---|
| |

### P1a Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|

### P1 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P1 | -3.970910 | 0.011792 | 0.004716 |
| 7 | P1 | -3.064865 | 0.013434 | -0.094748 |
| 11 | P1 | -4.093958 | 0.015729 | -0.049605 |
| 15 | P1 | -6.107543 | 0.012335 | -0.094029 |
| 19 | P1 | -3.309570 | 0.007837 | -0.013500 |
| 22 | P1 | -4.520994 | 0.011103 | -0.021628 |
| 26 | P1 | -4.029122 | 0.020300 | 0.098841 |
| 30 | P1 | -5.738584 | 0.020411 | -0.035621 |
| 3 | P1 | -16.660807 | 0.311712 | 0.141770 |
| 7 | P1 | -17.002153 | 0.148847 | -0.288179 |
| 11 | P1 | -16.782032 | 0.322855 | -0.425241 |
| 15 | P1 | -13.122110 | 0.141664 | -0.272157 |
| 19 | P1 | -14.168444 | 0.049178 | -0.246743 |
| 22 | P1 | -16.075455 | 0.457979 | -0.242034 |
| 26 | P1 | -15.405436 | 0.270638 | 0.398466 |
| 30 | P1 | -16.826496 | 0.328290 | -0.510836 |

### P2 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P2 | -21.277895 | 0.085187 | 0.108396 |
| 7 | P2 | -22.174726 | 0.100502 | 0.132285 |
| 11 | P2 | -16.017384 | 0.111787 | 0.149382 |
| 15 | P2 | -7.164225 | 0.096006 | -0.028213 |
| 19 | P2 | -9.154450 | 0.088871 | -0.035702 |
| 22 | P2 | -18.067495 | 0.087707 | -0.136598 |
| 26 | P2 | -16.320862 | 0.093132 | -0.117762 |
| 30 | P2 | -19.602068 | 0.087114 | -0.004199 |

### P3 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P3 | -8.189743 | 0.004312 | -0.016491 |
| 7 | P3 | -8.189743 | 0.004312 | -0.016491 |
| 11 | P3 | -8.189743 | 0.004312 | -0.016491 |
| 15 | P3 | -8.189743 | 0.004312 | -0.016491 |
| 19 | P3 | -8.189743 | 0.004312 | -0.016491 |
| 22 | P3 | -8.189743 | 0.004312 | -0.016491 |
| 26 | P3 | -8.189761 | 0.004313 | -0.016467 |
| 30 | P3 | -8.189761 | 0.004313 | -0.016467 |

### 4.2.2 - Evolution for GM1

| Evolution of cal pulses for GM1 |
|---|
| |

**P1a Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|

**P1 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P1 | -3.744000 | 0.038844 | 0.025231 |
| 7 | P1 | -2.651213 | 0.104196 | 0.120411 |
| 11 | P1 | -2.878457 | 0.031792 | 0.056835 |
| 15 | P1 | -3.508367 | 0.029941 | 0.055355 |
| 19 | P1 | -3.384686 | 0.013881 | -0.018497 |
| 22 | P1 | -5.112708 | 0.022478 | 0.064060 |
| 26 | P1 | -5.819247 | 0.023018 | -0.050303 |
| 30 | P1 | -5.181697 | 0.045542 | -0.009954 |
| 3 | P1 | -11.591717 | 0.136733 | 0.018314 |
| 7 | P1 | -9.980081 | 0.160290 | 0.013877 |
| 11 | P1 | -10.222680 | 0.084357 | 0.074778 |
| 15 | P1 | -10.668414 | 0.130387 | 0.164337 |
| 19 | P1 | -15.461385 | 0.088867 | -0.089859 |
| 22 | P1 | -20.725197 | 1.293968 | -0.472776 |
| 26 | P1 | -16.410658 | 0.408181 | -0.240902 |
| 30 | P1 | -18.208050 | 0.489377 | 0.421218 |

**P2 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P2 | -16.944363 | 0.070243 | 0.080789 |
| 7 | P2 | -22.510086 | 0.179994 | -0.074972 |
| 11 | P2 | -11.191429 | 0.050566 | -0.007069 |
| 15 | P2 | -4.874942 | 0.043061 | -0.076099 |
| 19 | P2 | -6.861793 | 0.042089 | -0.043556 |
| 22 | P2 | -8.161144 | 0.054779 | -0.081694 |
| 26 | P2 | -24.058615 | 0.127273 | -0.106225 |
| 30 | P2 | -22.051395 | 0.087561 | -0.023031 |

**P3 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P3 | -8.023879 | 0.003803 | -0.005482 |
| 7 | P3 | -8.023908 | 0.003819 | -0.006108 |
| 11 | P3 | -8.024056 | 0.003797 | -0.005555 |
| 15 | P3 | -8.023730 | 0.003819 | -0.005228 |
| 19 | P3 | -8.023999 | 0.003816 | -0.005684 |
| 22 | P3 | -8.023922 | 0.003813 | -0.005617 |
| 26 | P3 | -8.023753 | 0.003803 | -0.005273 |
| 30 | P3 | -8.023843 | 0.003807 | -0.005283 |

### 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 | 0.000541934 |
| | stdev | 1.87308e-07 |
| MEAN Q | mean | 0.000514117 |
| | stdev | 2.27261e-07 |



### 5.2 - Input stdev I/Q

| channel | stat | DSS-B |
|---|---|---|
| STDEV I | mean | 0.135499 |
| | stdev | 0.00118716 |
| STDEV Q | mean | 0.135851 |
| | stdev | 0.00120419 |



### 5.3 - Gain imbalance I/Q



## 6 - Telemetry analysis

Summary of analysis for the last 3 days 2006051[234]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

| Filename | num_gaps | num_missing_lines |
|---|---|---|
| ASA_IMM_1PNPDE20060512_010614_000000832047_00346_21943_4800.N1 | 1 | 0 |
| ASA_IMM_1PNPDE20060513_182646_000000352047_00371_21968_4970.N1 | 0 | 15 |
| ASA_GM1_1PNPDK20060512_174532_000002112047_00356_21953_3153.N1 | 0 | 919 |
| ASA_GM1_1PNPDK20060512_181941_000001262047_00356_21953_3154.N1 | 0 | 339 |
| ASA_GM1_1PNPDK20060512_202829_000003742047_00357_21954_3164.N1 | 0 | 15 |
| ASA_WSM_1PNPDE20060514_014737_000000862047_00375_21972_9156.N1 | 0 | 45 |
| ASA_WSM_1PNPDK20060512_191044_000000672047_00357_21954_4898.N1 | 0 | 184 |
| ASA_WSM_1PNPDK20060513_052729_000000122047_00363_21960_4998.N1 | 0 | 472 |
| ASA_WSM_1PNPDK20060513_103058_000001292047_00366_21963_4958.N1 | 0 | 15 |

| | | |
|---|---|---|
| ASA_APM_1PNPDE20060513_004223_000000562047_00360_21957_2192.N1 | 0 | 19 |

# 7 - Doppler Analysis

Preliminary report.The data is not yet controled

## 7.1 - Unbiased Doppler Error for WVS

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

## 7.2 - Absolute Doppler for WVS

| Evolution of Absolute Doppler |
|---|
| |
| Acsending |
| |
| Descending |

## 7.3 - Doppler evolution versus ANX for WVS

| Evolution Doppler error versus ANX |
|---|
| |

## 7.4 - Unbiased Doppler Error for GM1

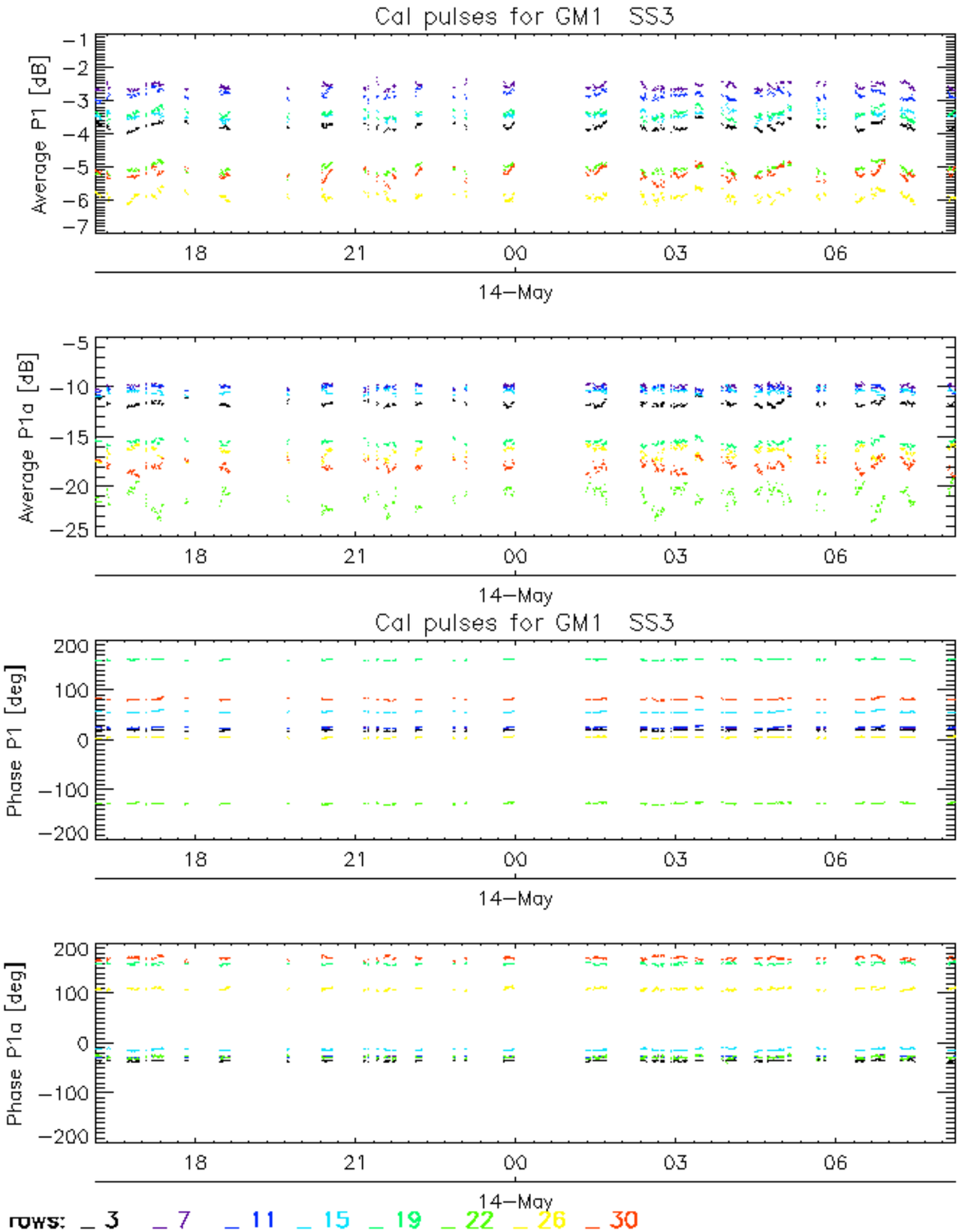
| Evolution of unbiased Doppler error (Real - Expected) |
| --- |
| ☒ |
| Acsending |
| ☒ |
| Descending |

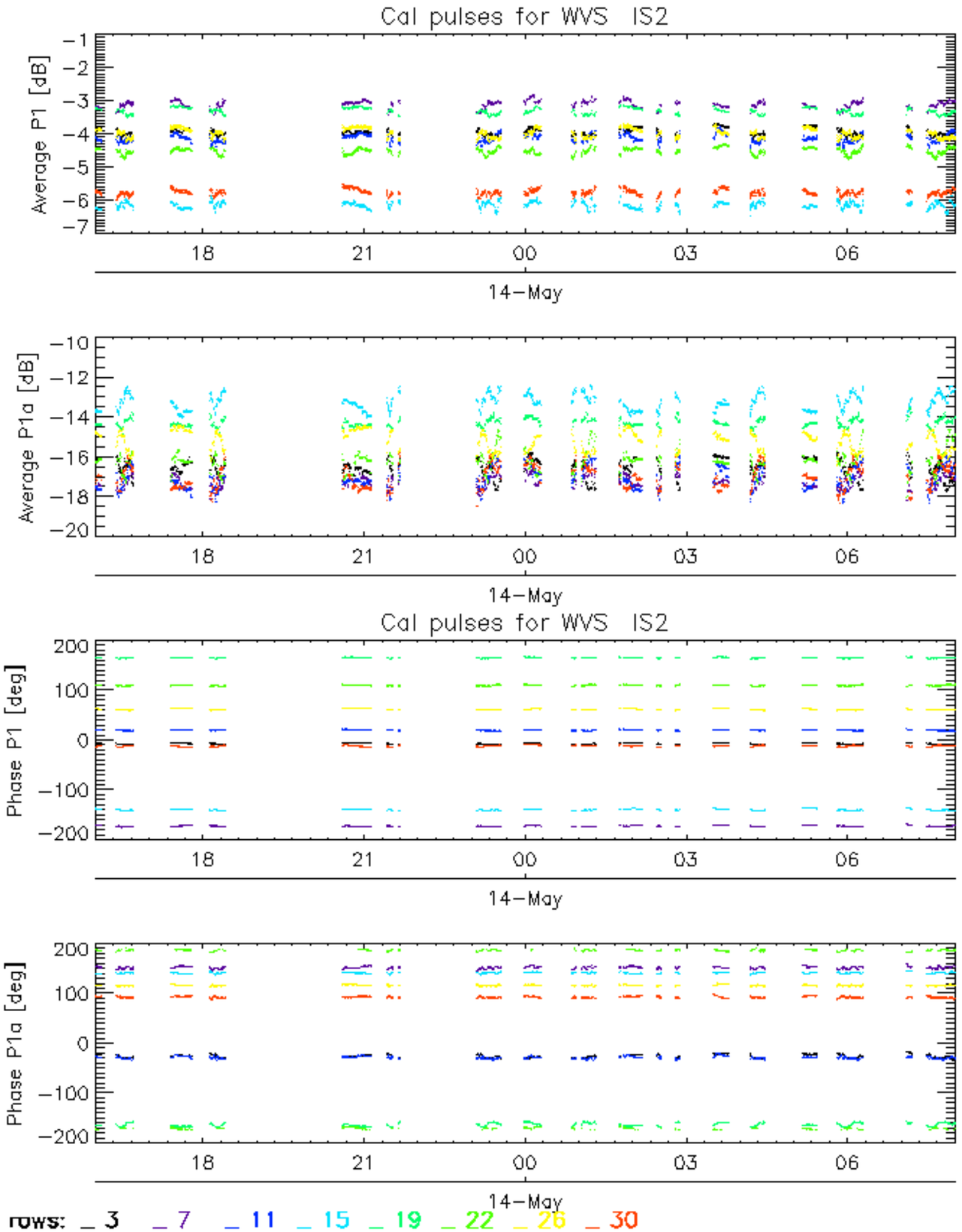
## 7.5 - Absolute Doppler for GM1

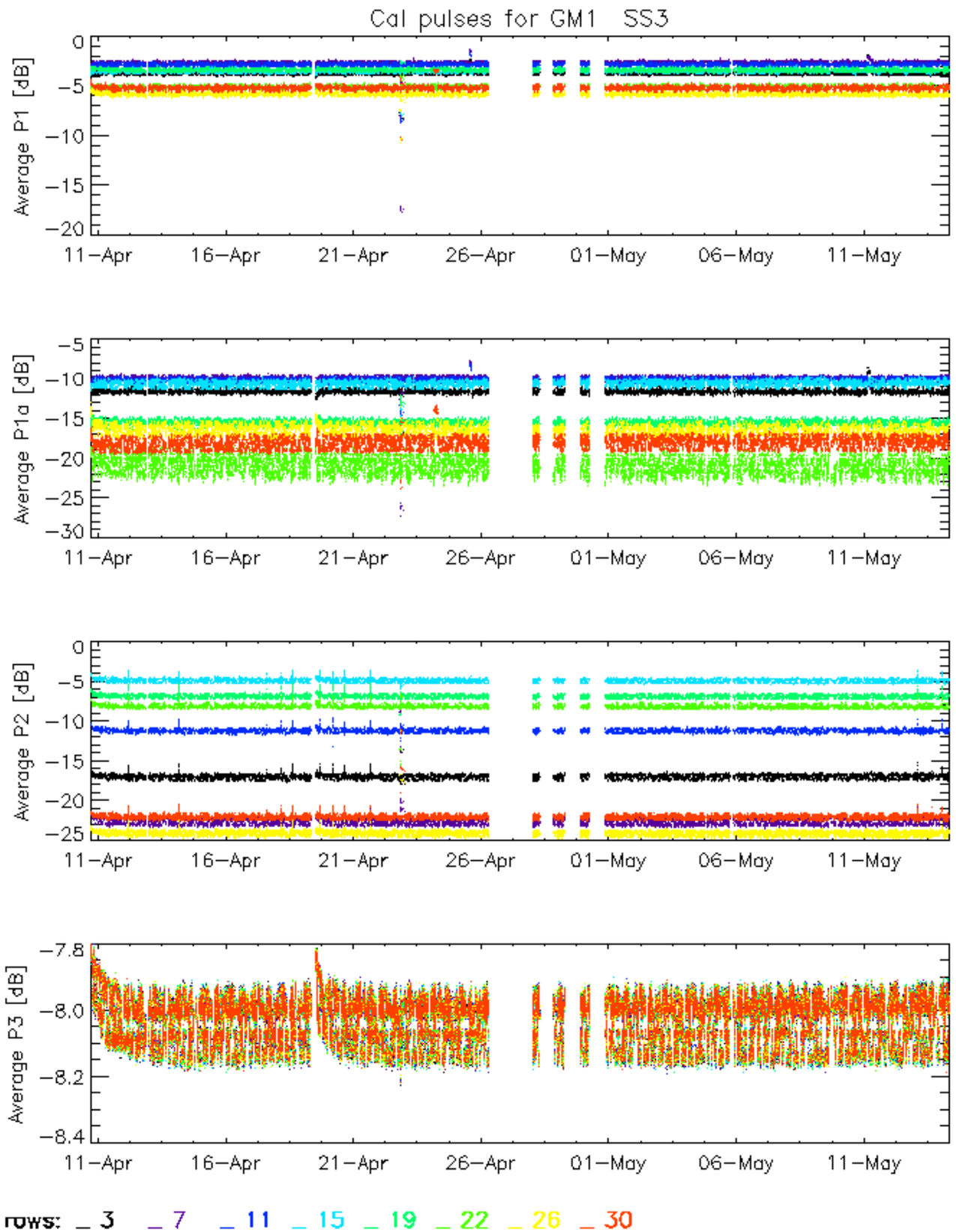
| Evolution of Absolute Doppler |
| --- |
| ☒ |
| Acsending |
| ☒ |
| Descending |

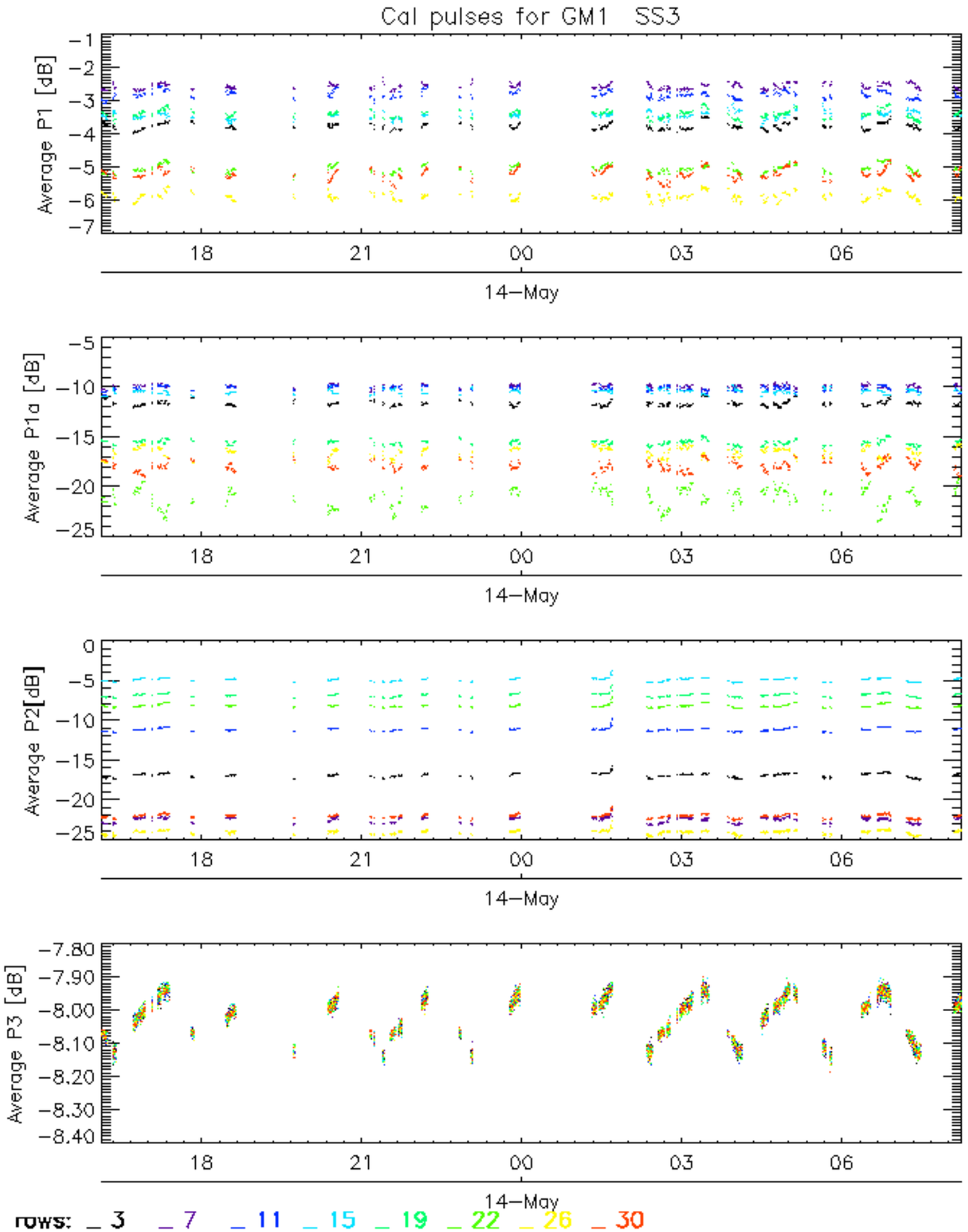
## 7.6 - Doppler evolution versus ANX for GM1

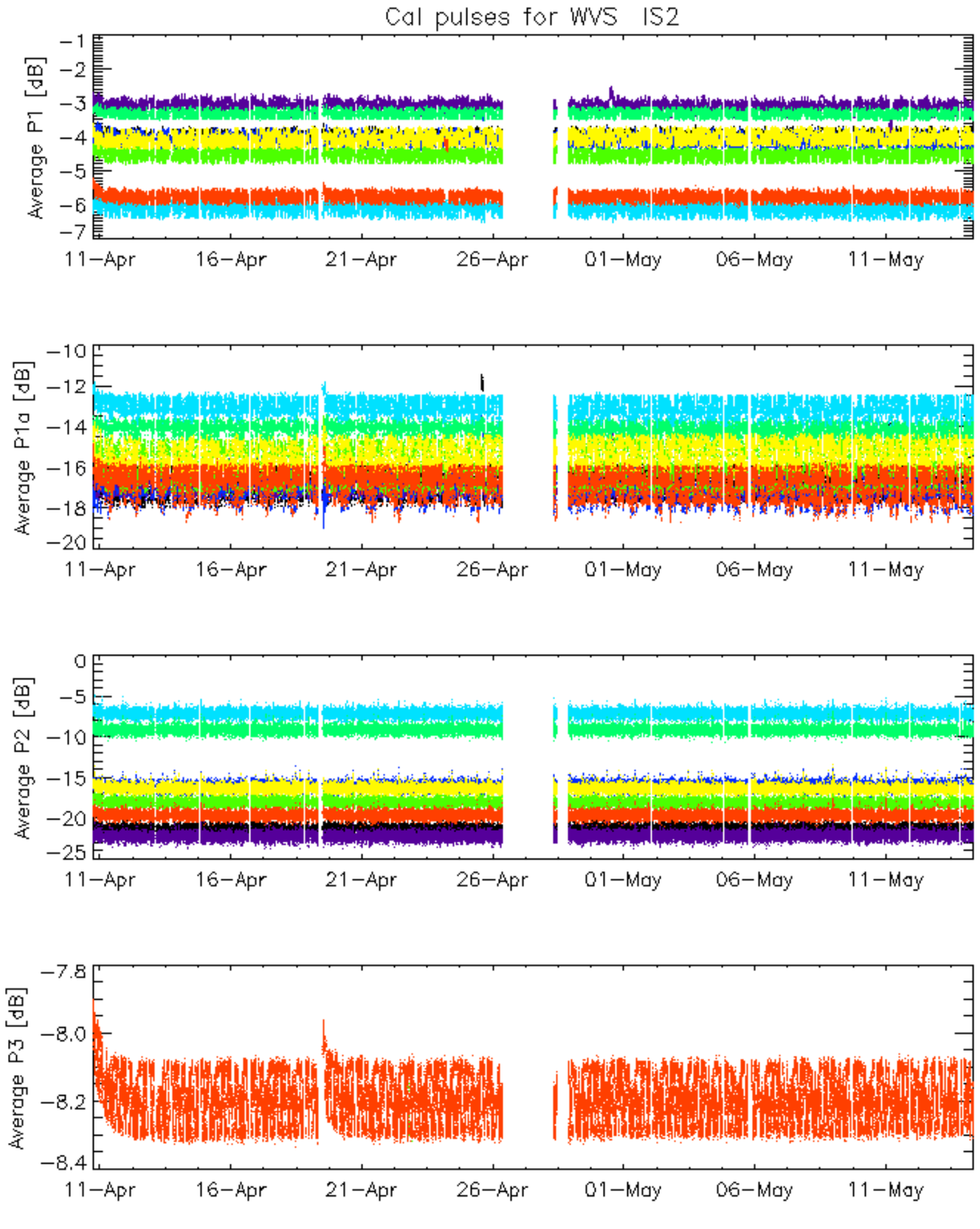
| Evolution Doppler error versus ANX |
| --- |
| ☒ |

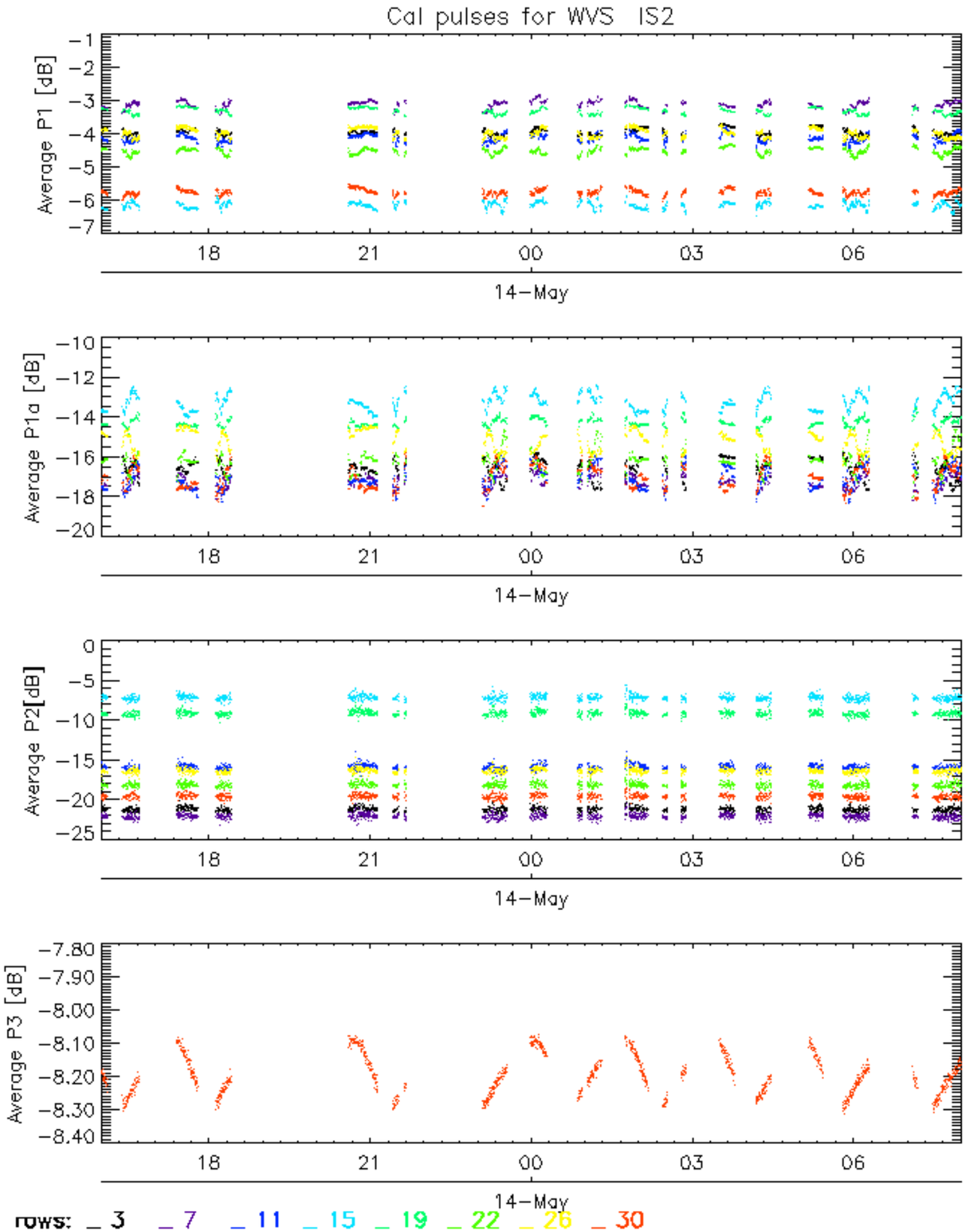

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
14−May
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
14−May
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
14−May
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
14−May
rows: _ 3 _ 7 _ 11 _ 15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


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

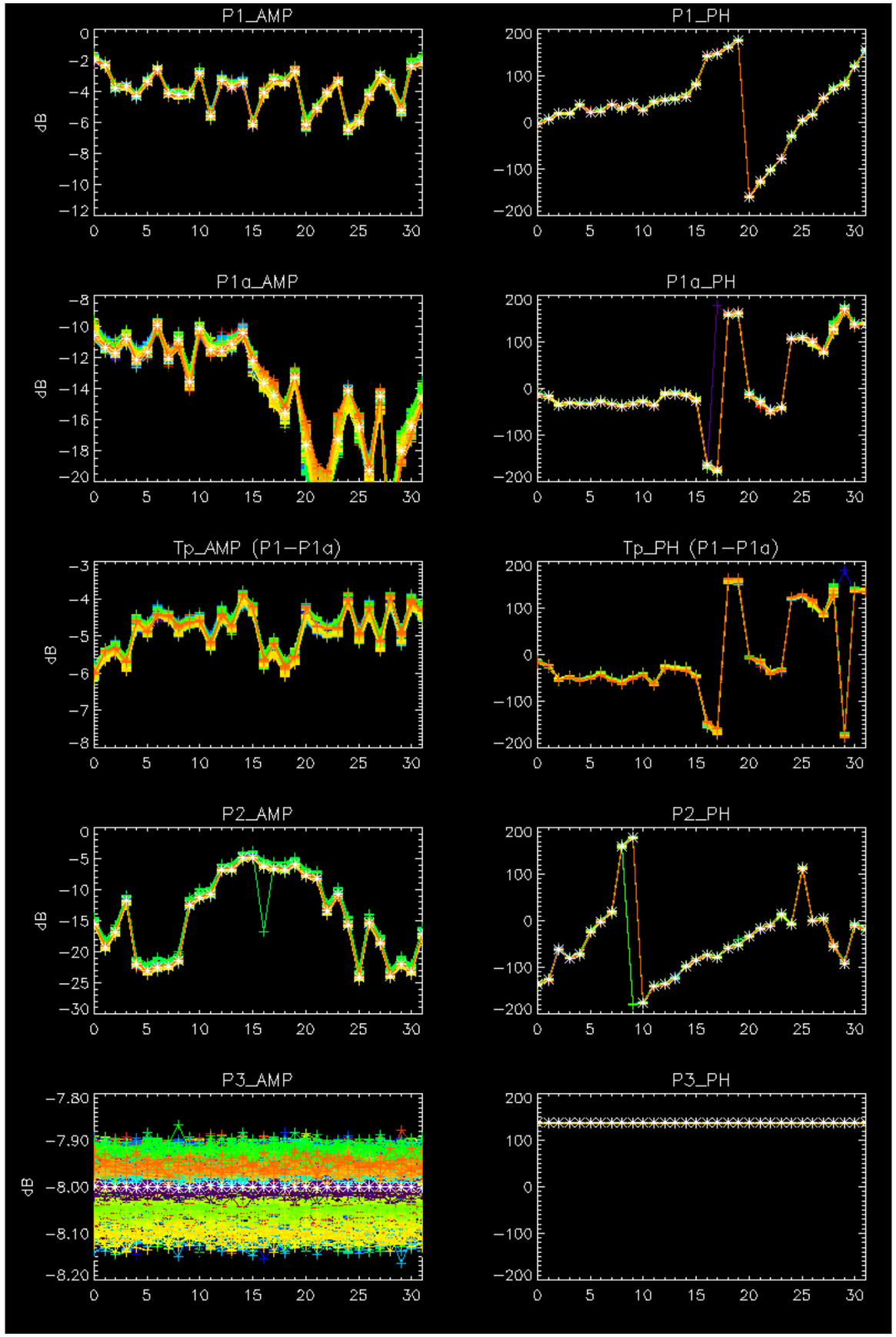

Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
11−Apr
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

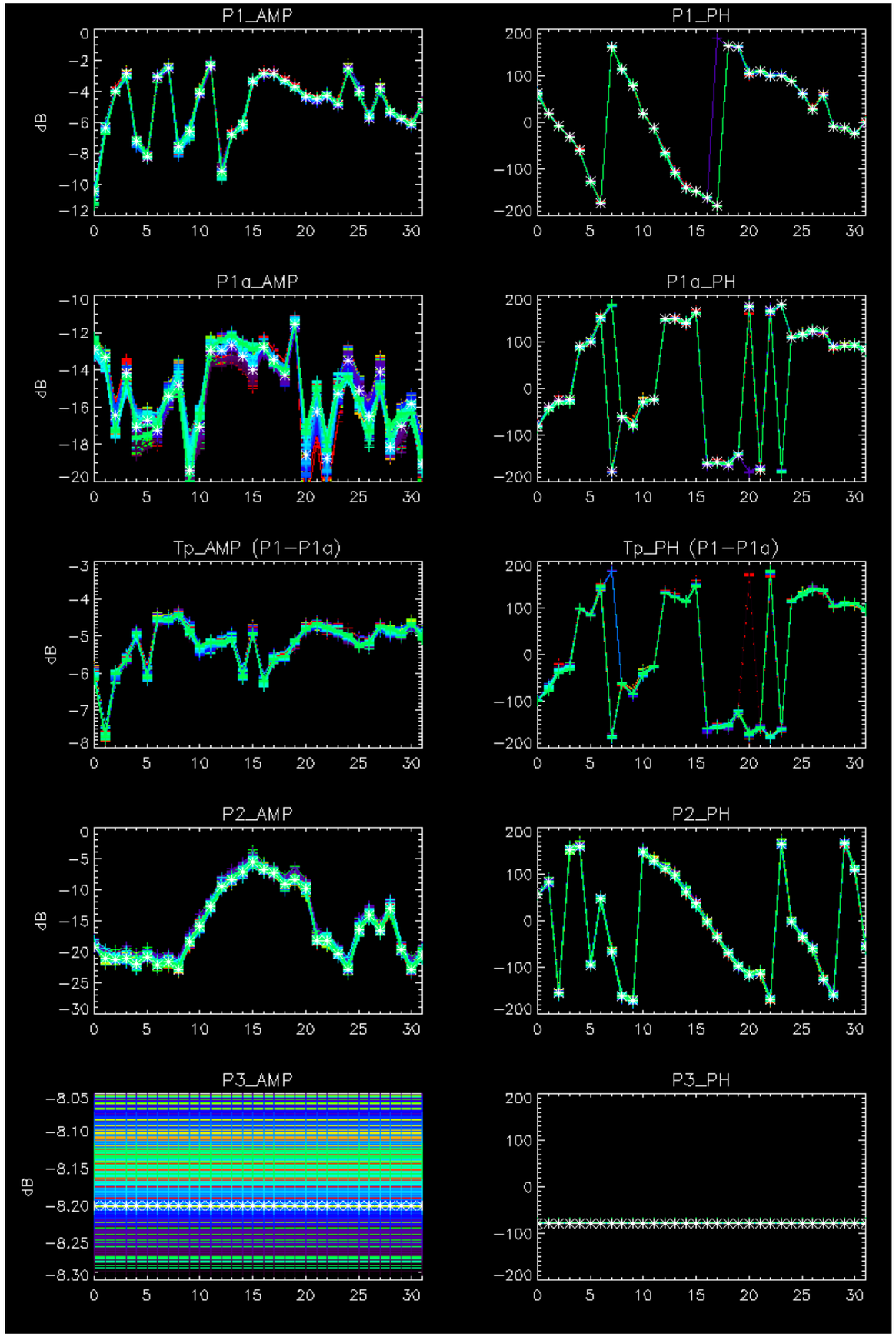

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
14−May
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
14−May
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
14−May
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
14−May
rows: _ 3 _ 7 _ 11 _ 15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


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


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

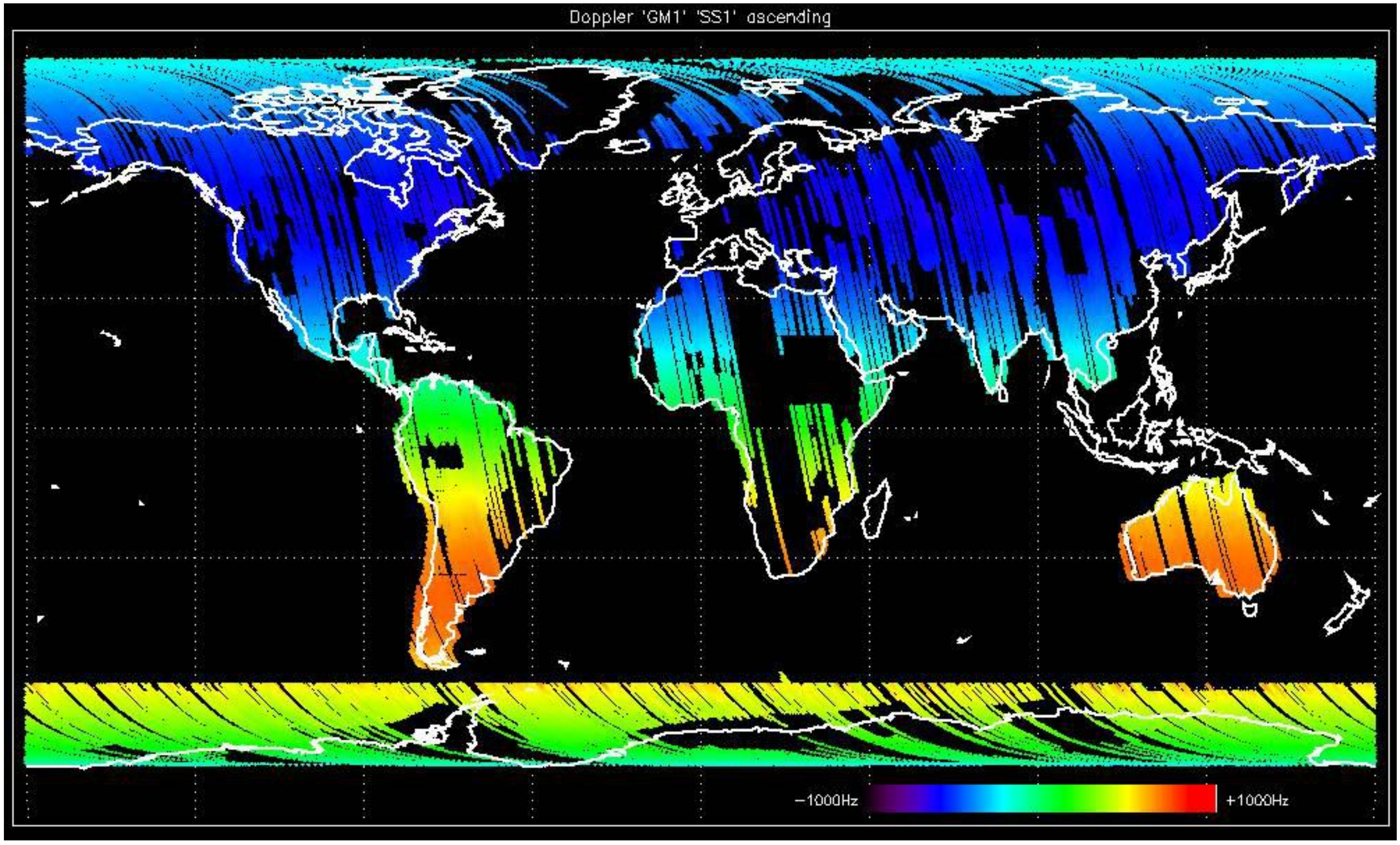
No anomalies observed.

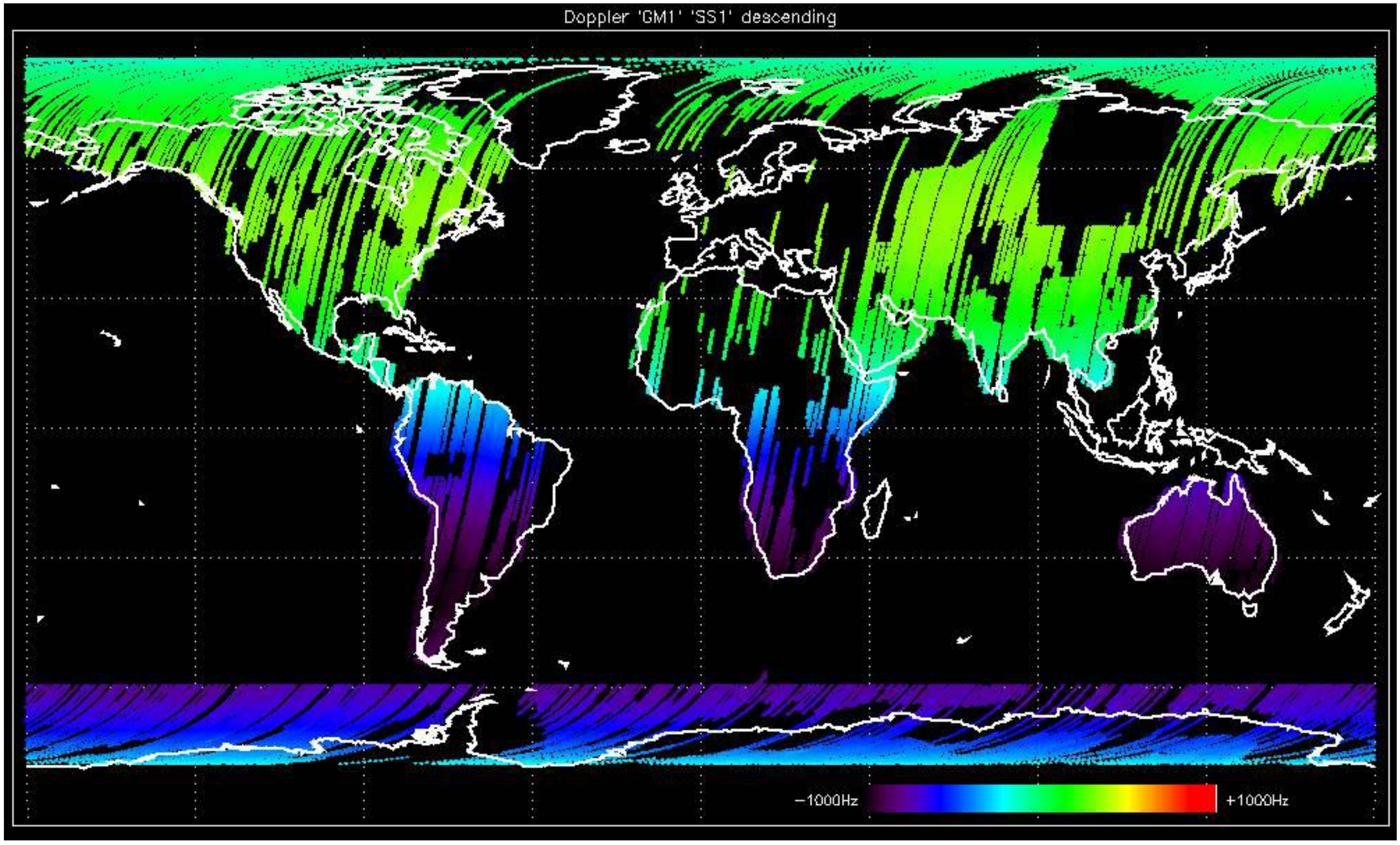

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

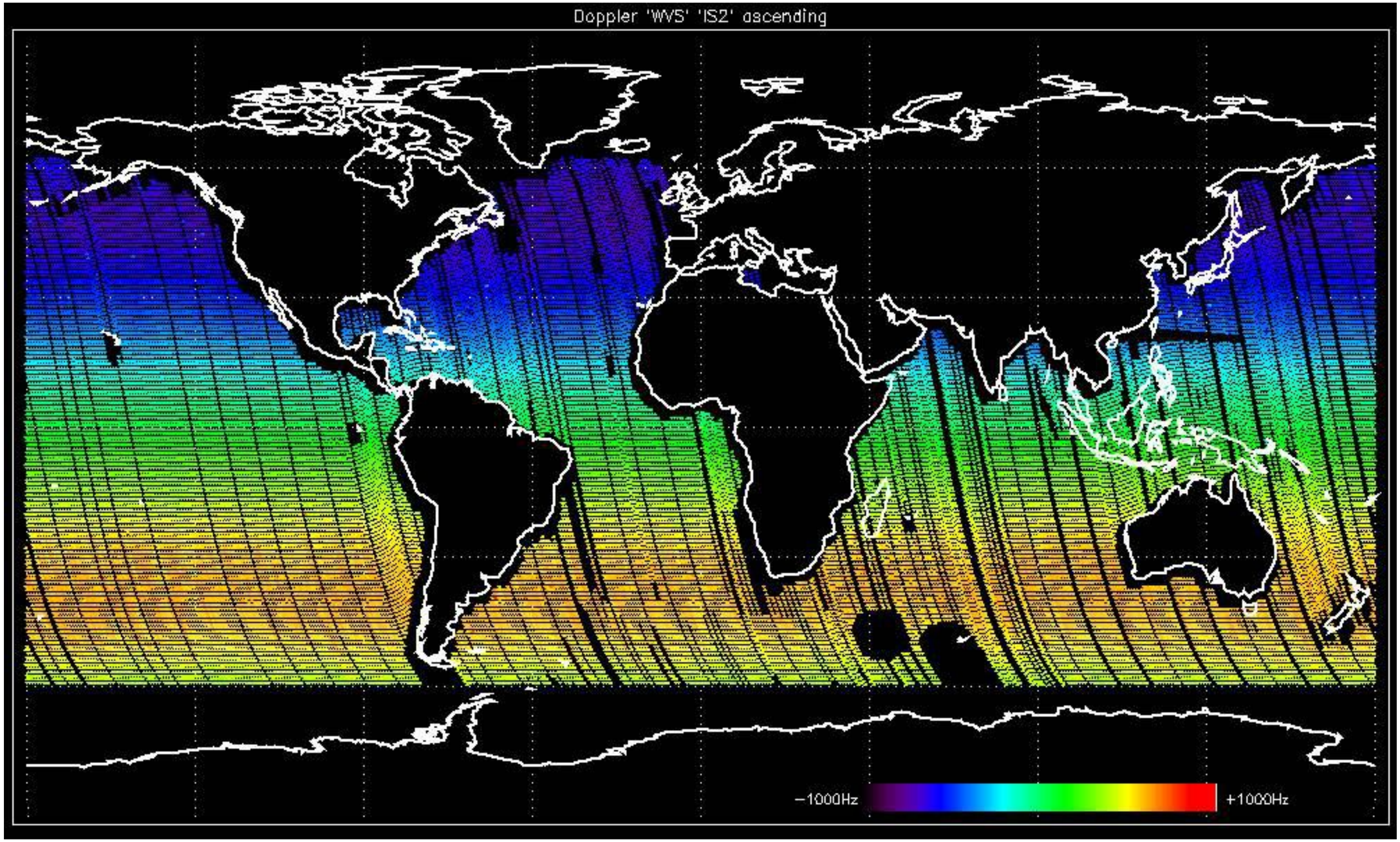

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

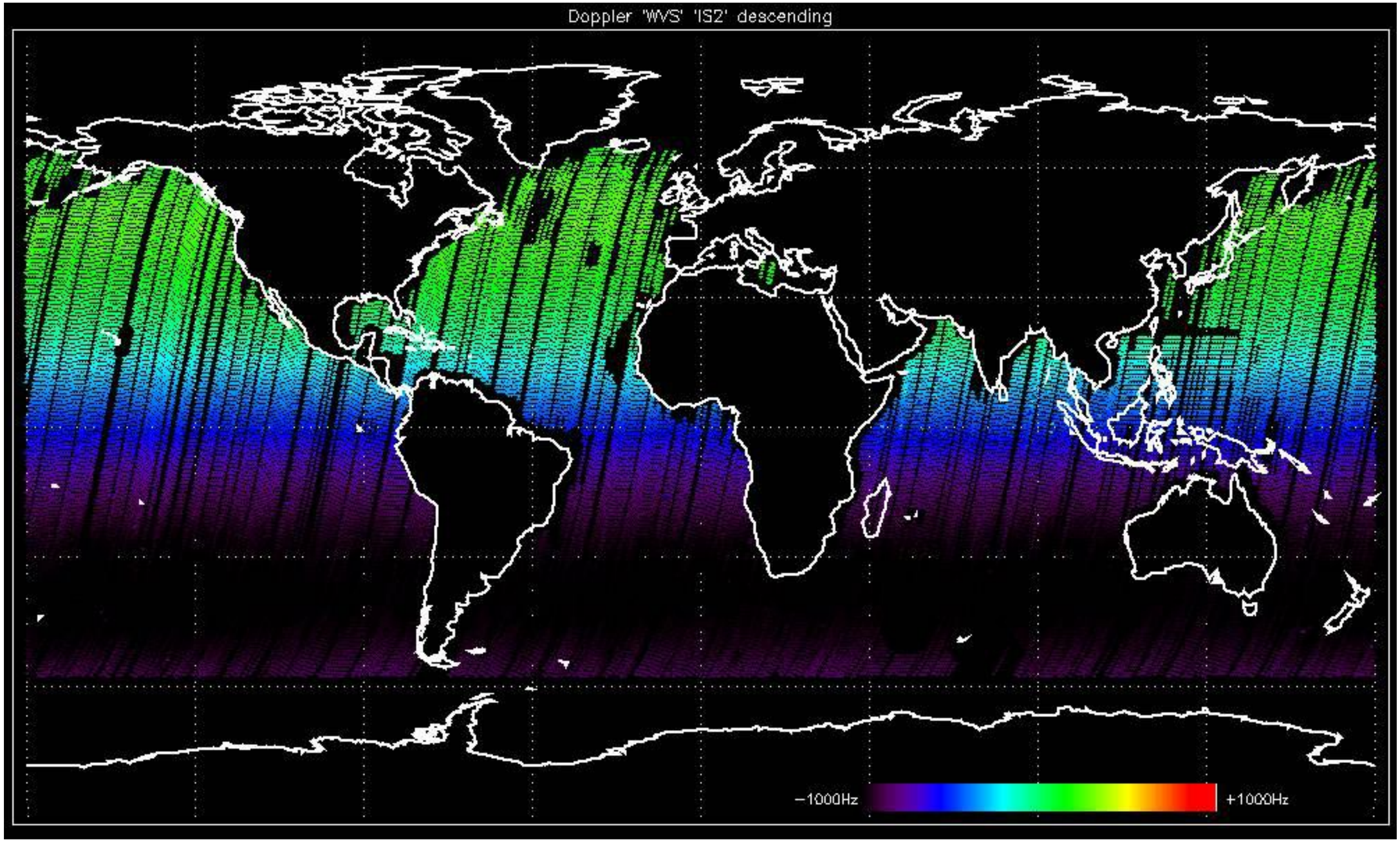
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

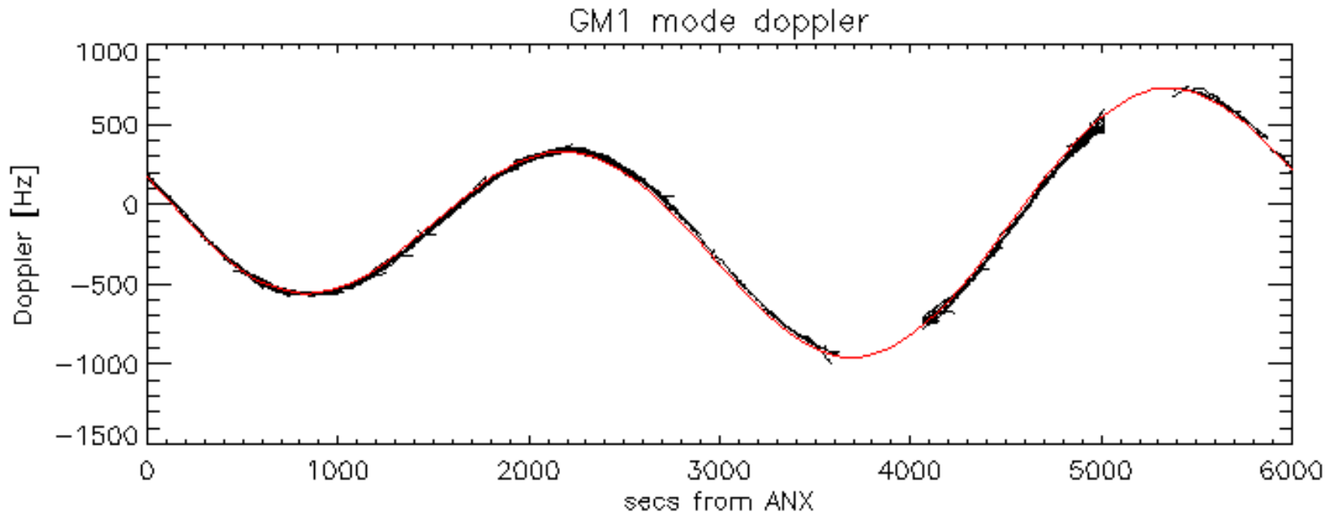
Preliminary report.The data is not yet controled

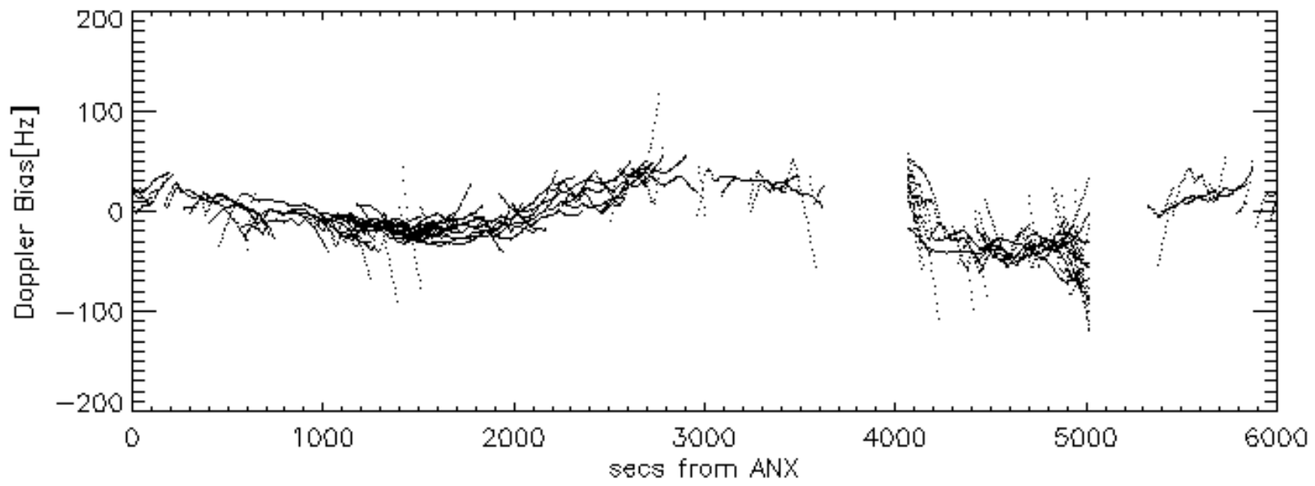

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

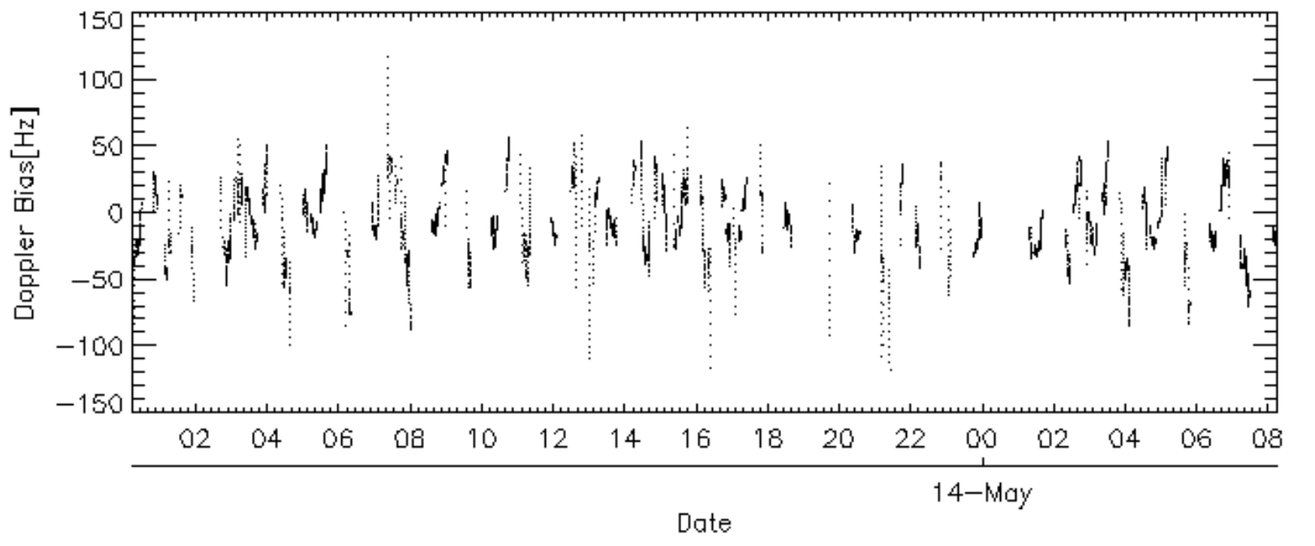

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

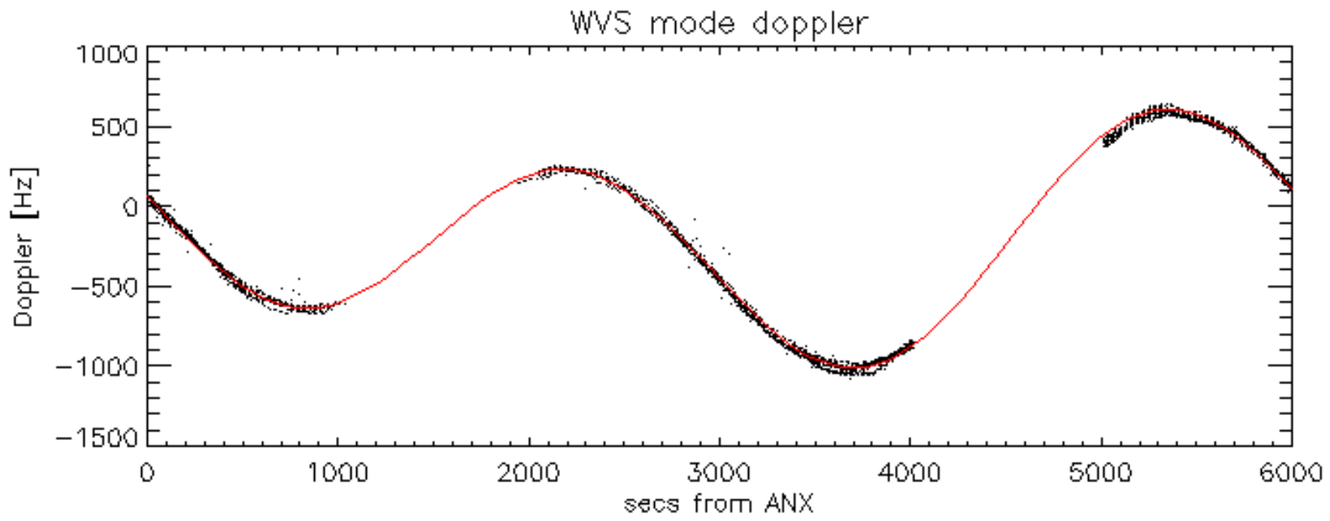

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

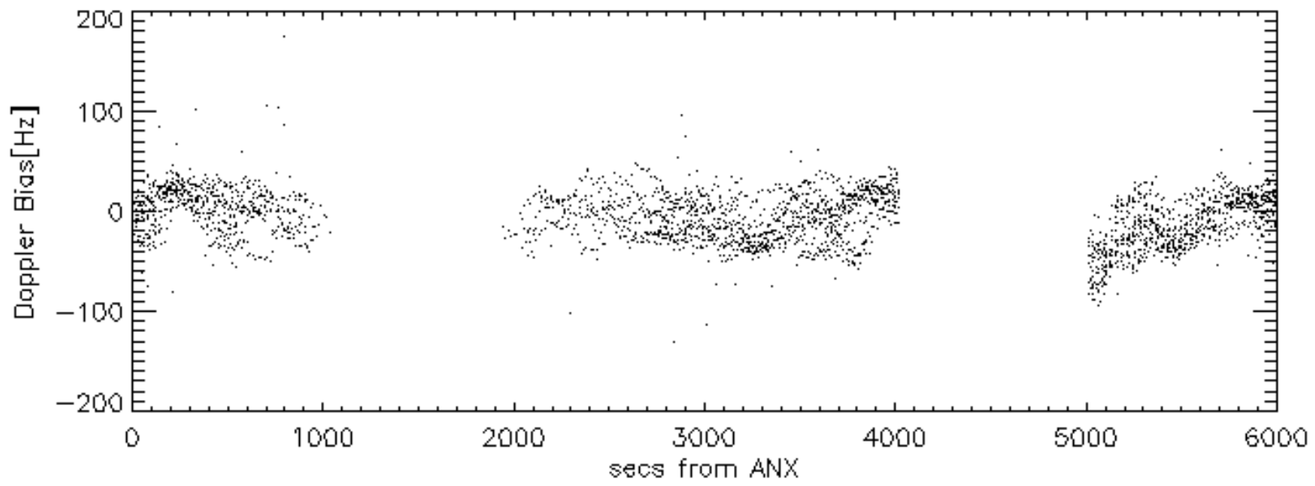

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

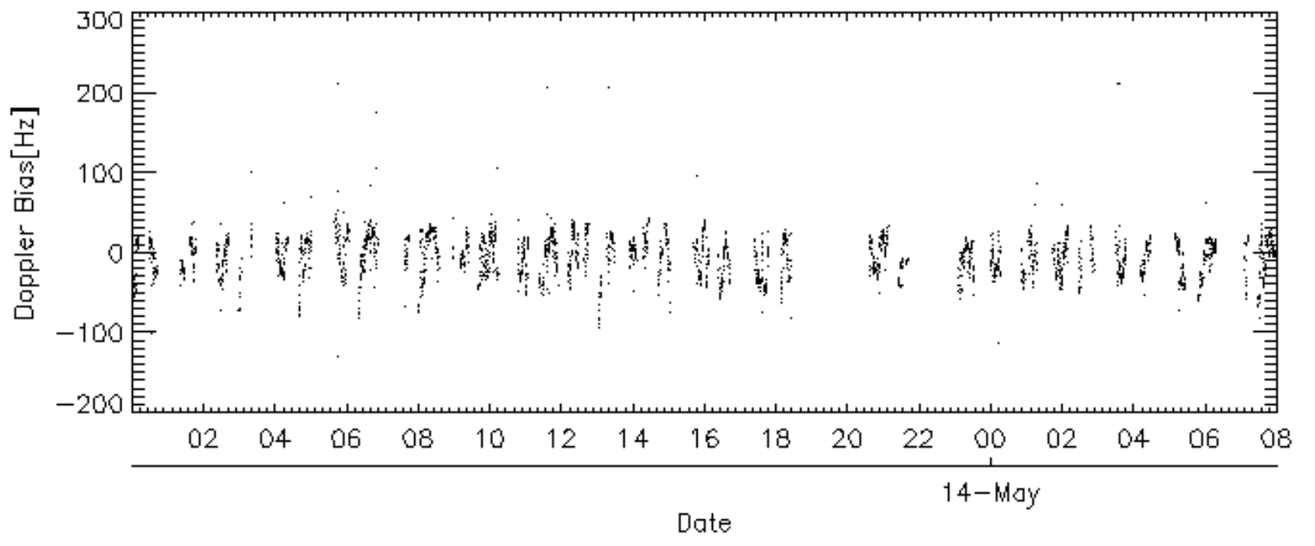

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

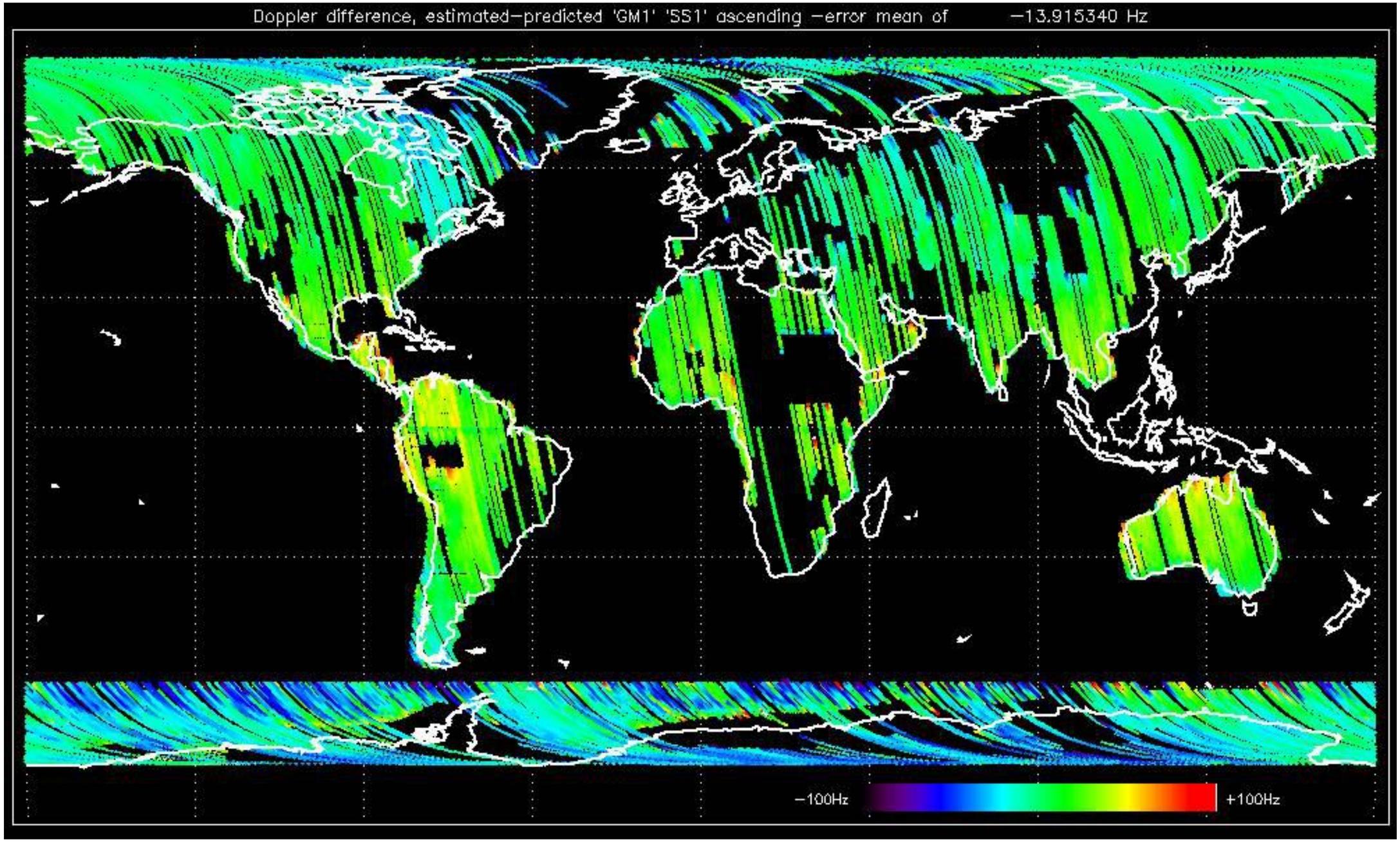

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

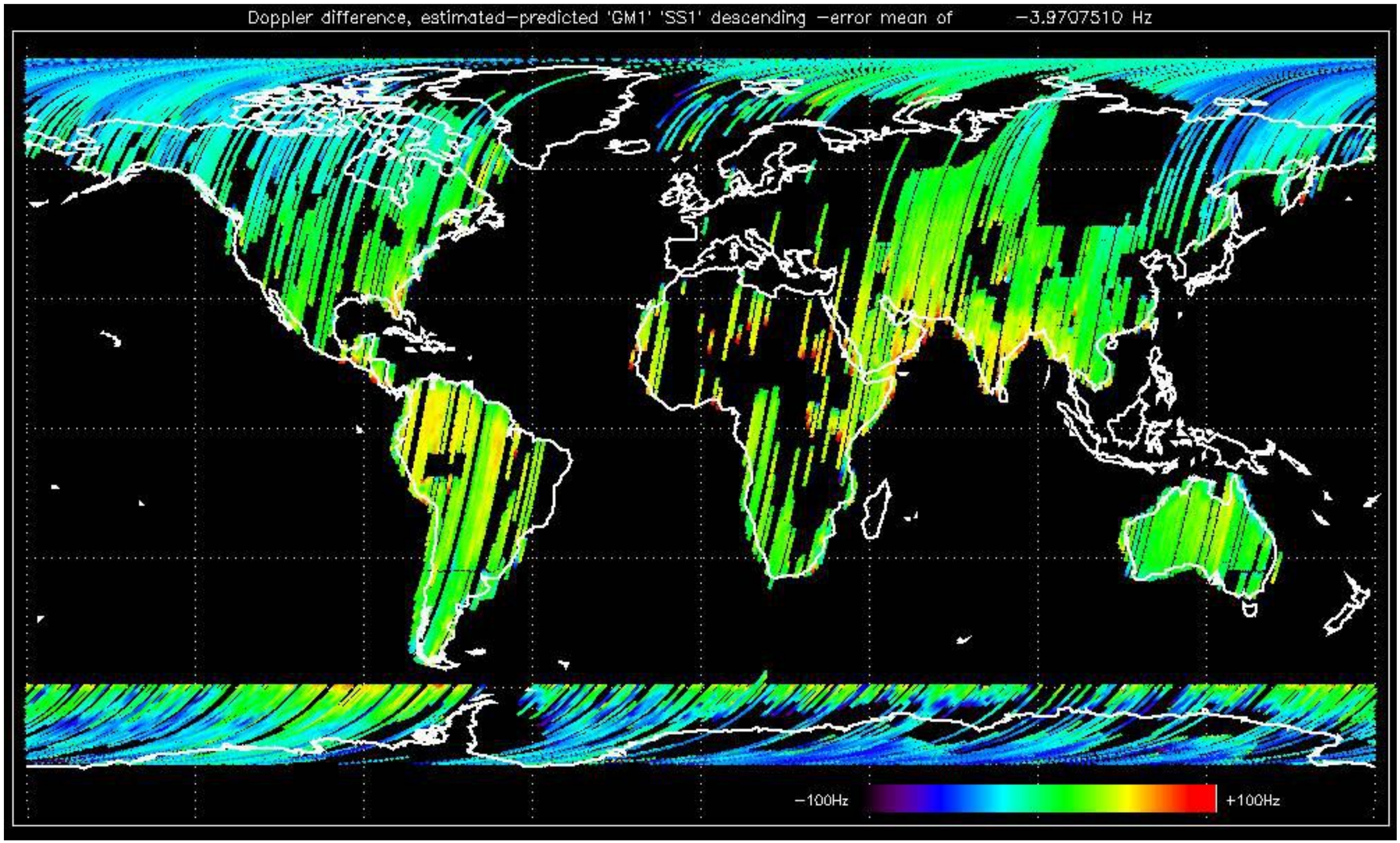

Doppler Bias[Hz]
150
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
14−May
Date

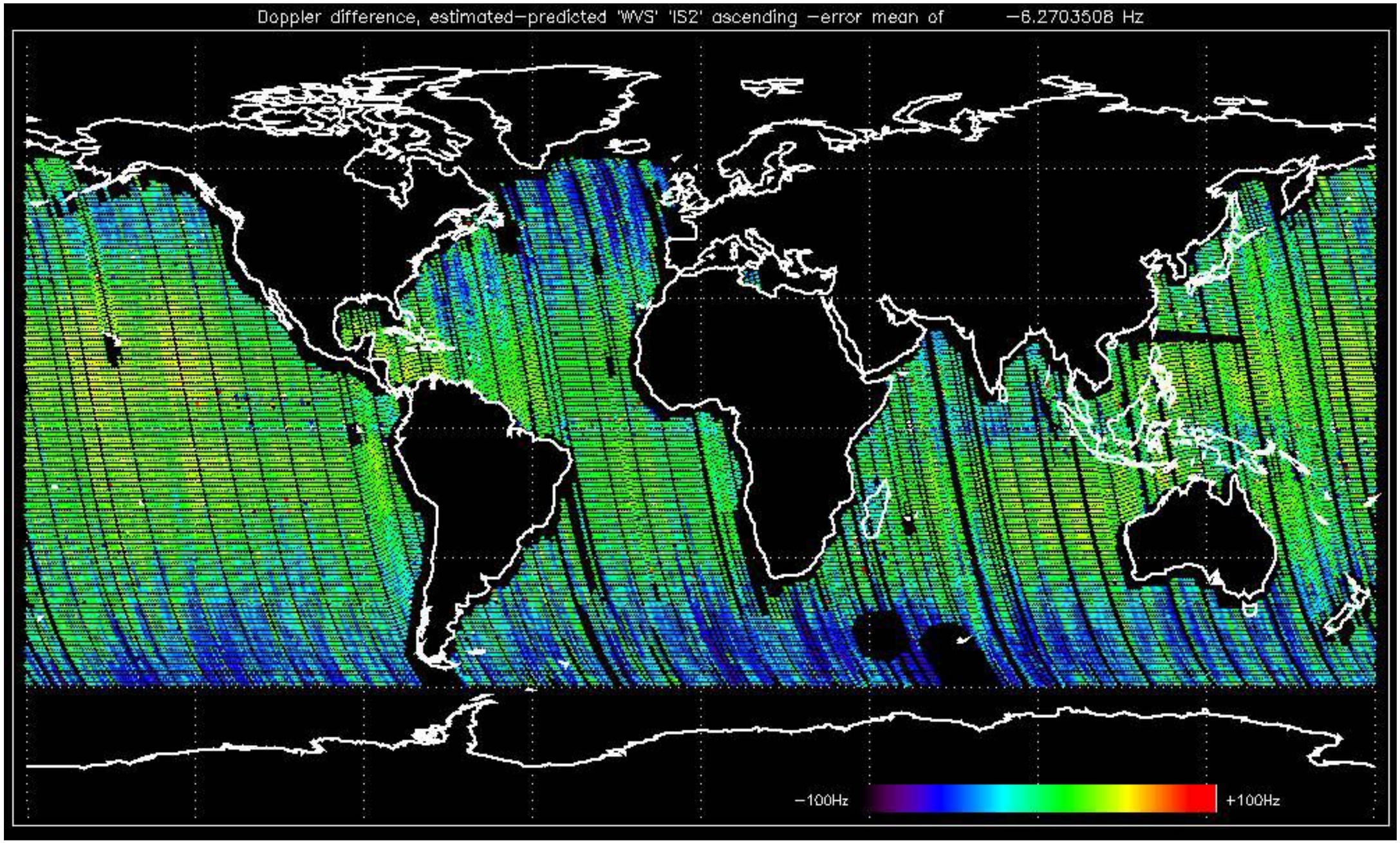

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

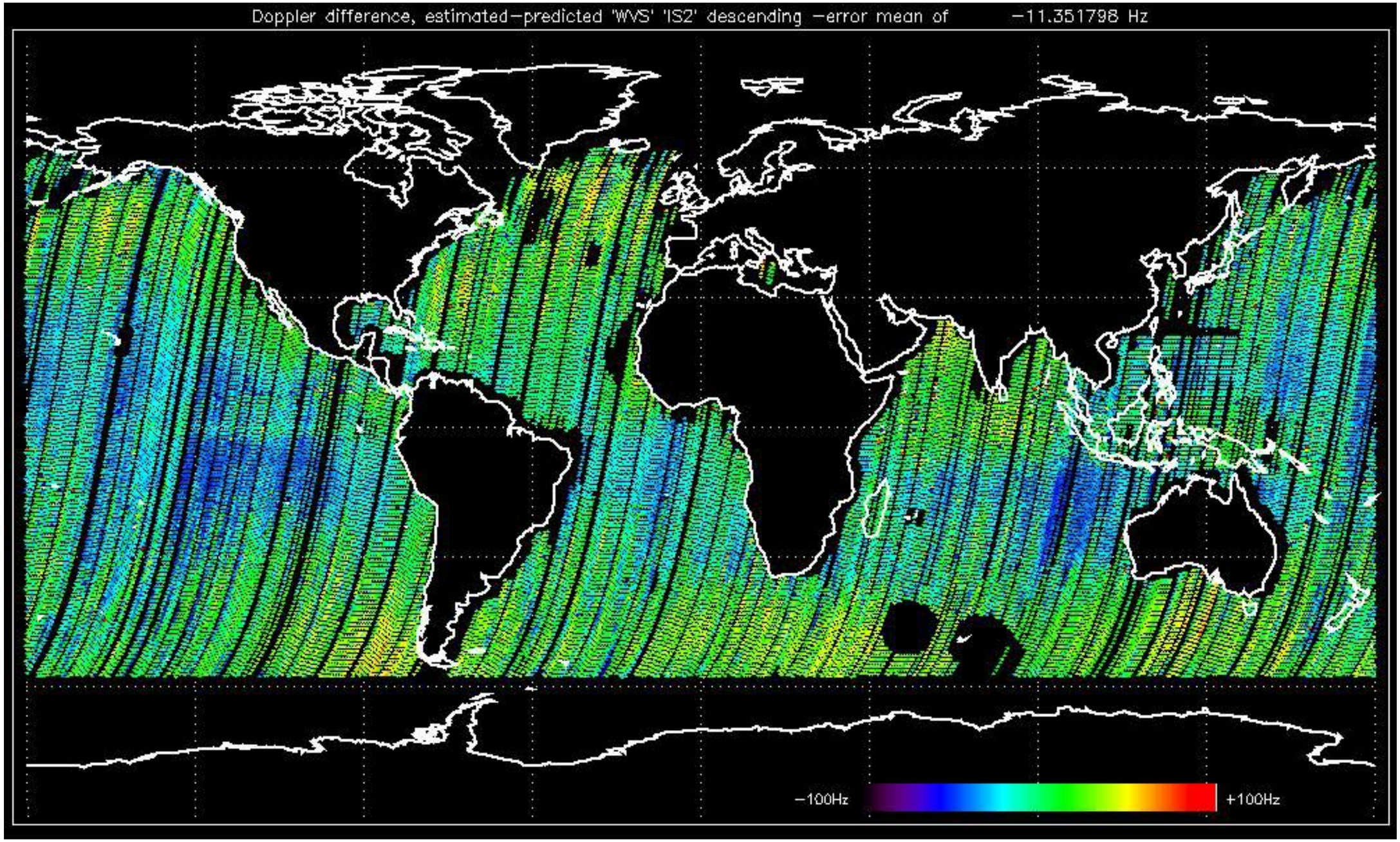

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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
14−May
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −13.915340 Hz
−100Hz
+100Hz

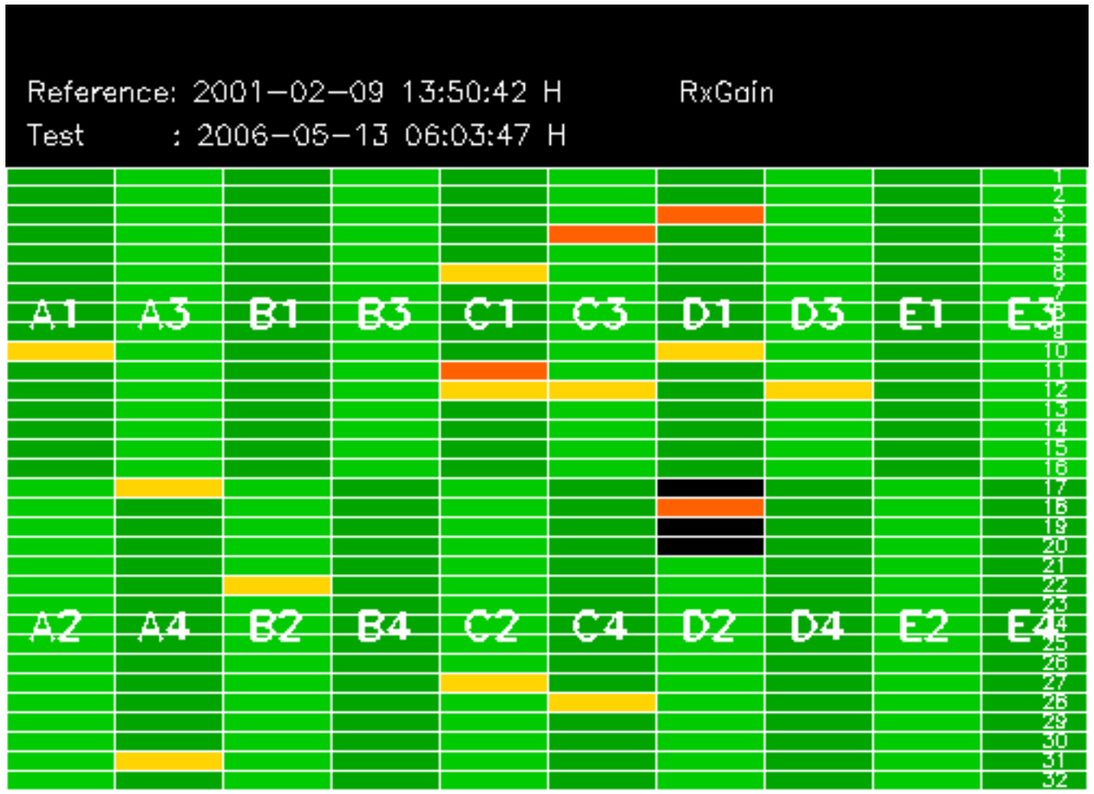

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -3.9707510 Hz
-100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −6.2703508 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −11.351798 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-13 06:03:47 H
RxGain
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
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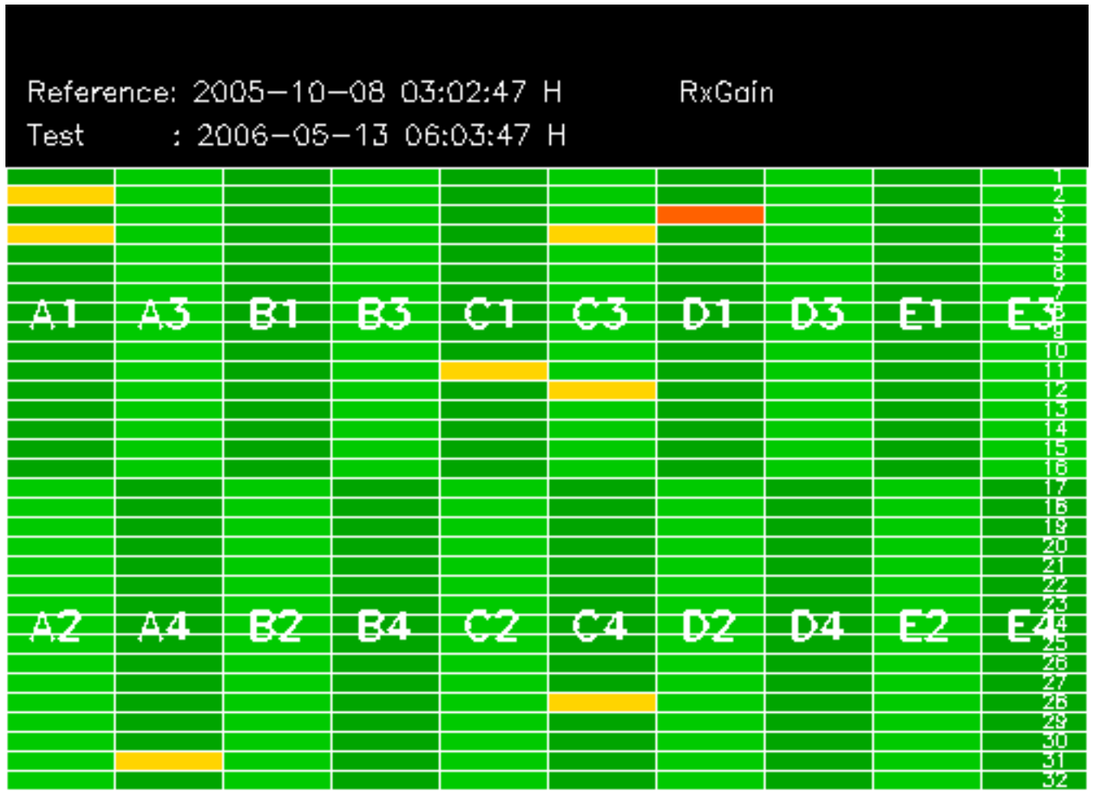
31
32


Reference: 2005-10-08 03:02:47 H
Test : 2006-05-13 06:03:47 H
RxGain
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
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8
9
10
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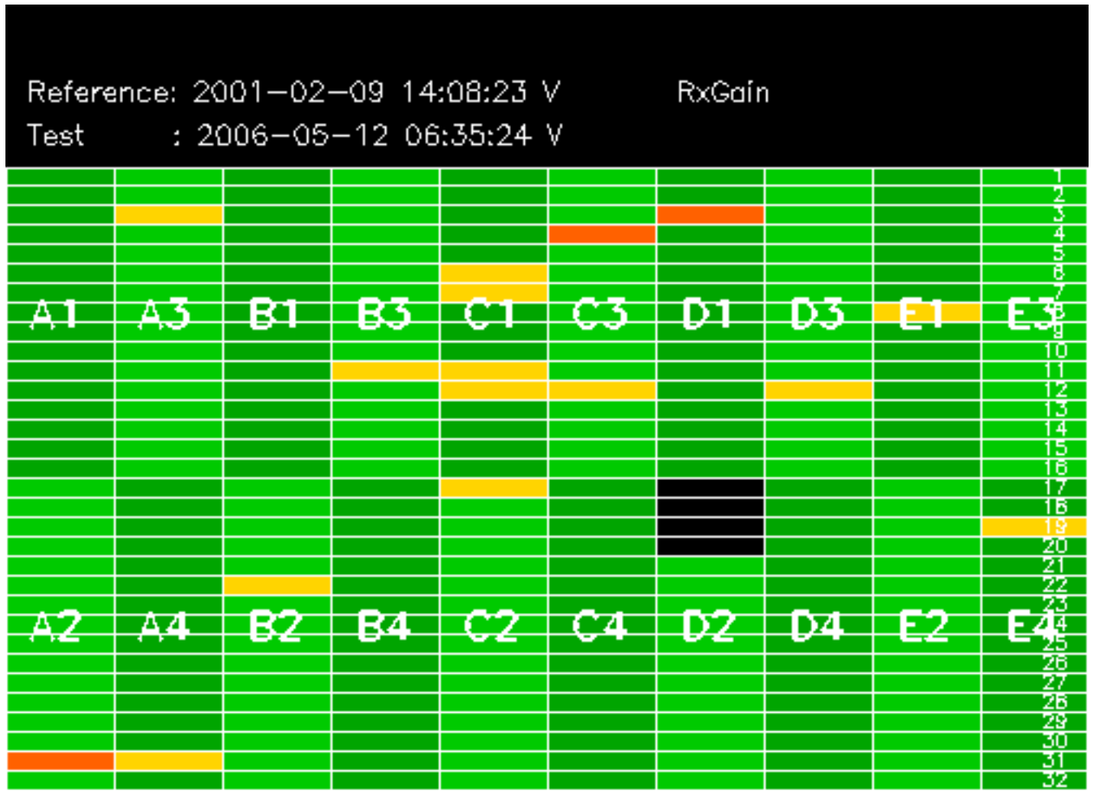
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-12 06:35:24 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
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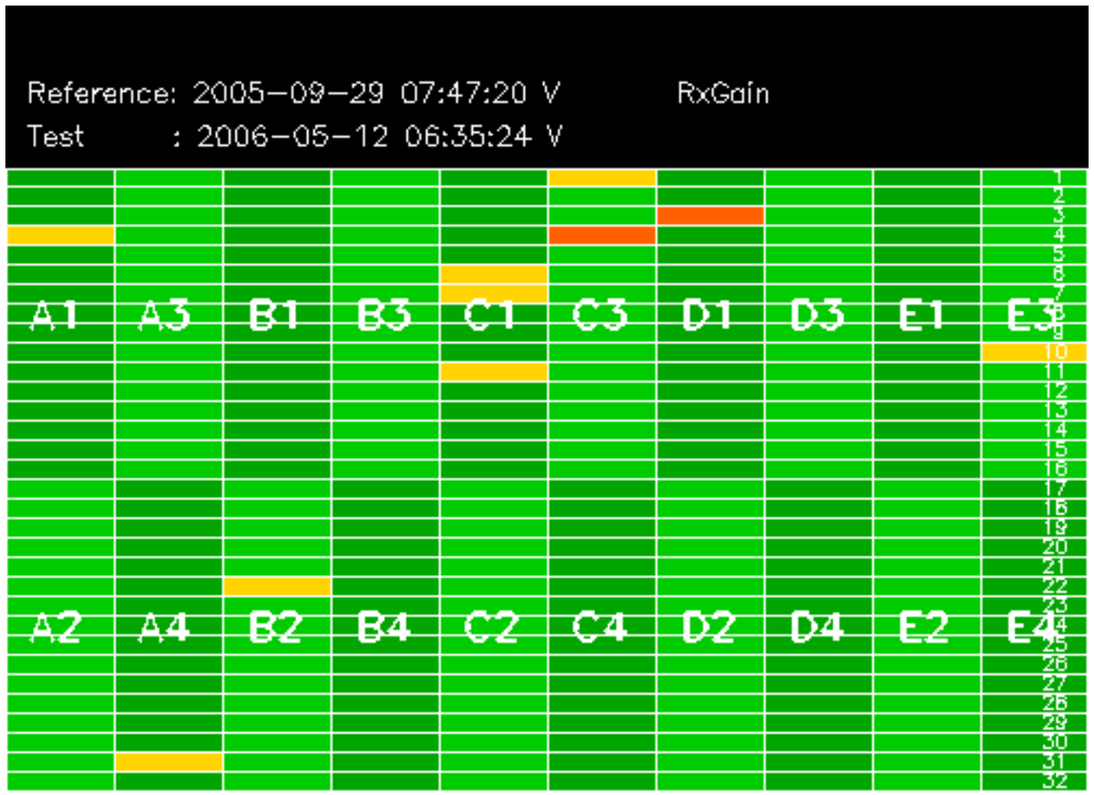
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-12 06:35:24 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
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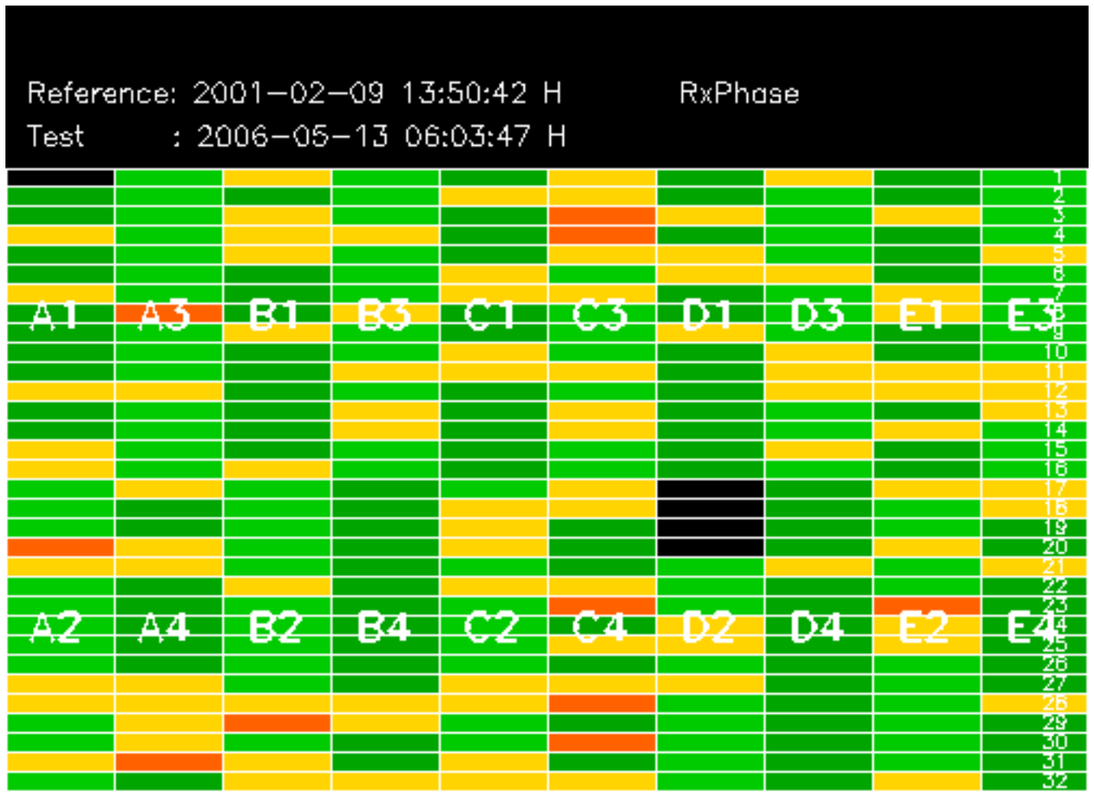
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-05-13 06:03:47 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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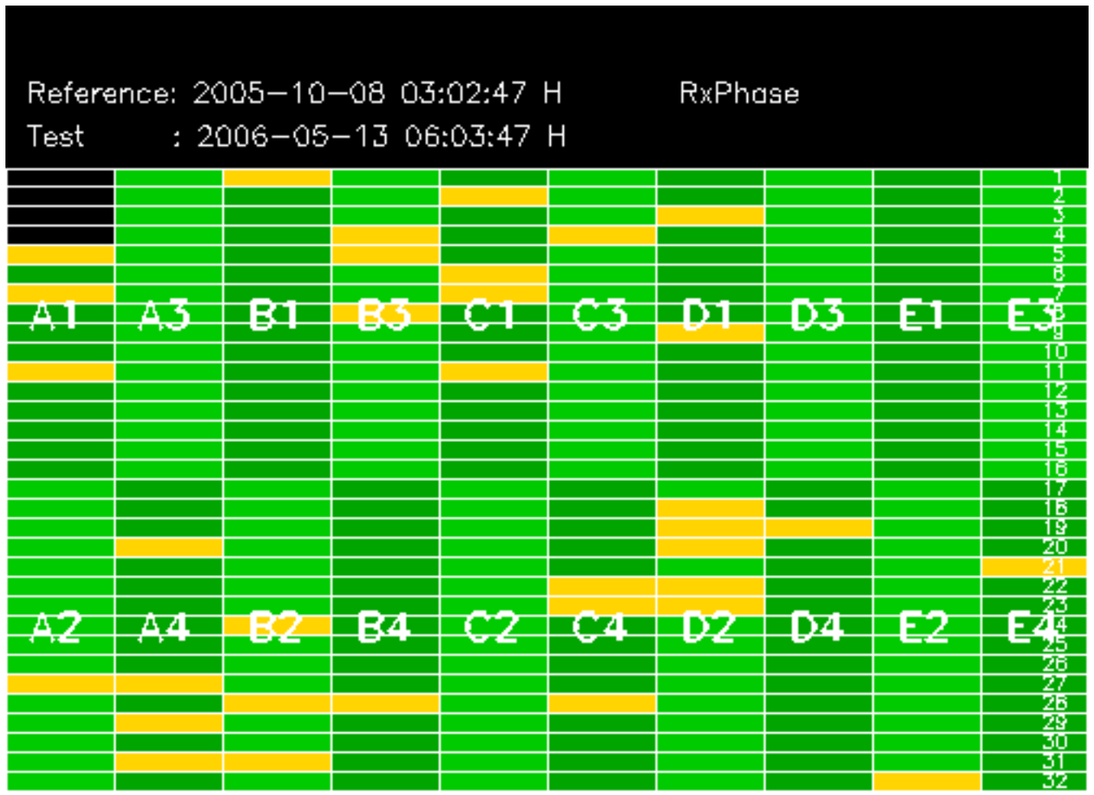
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-05-13 06:03:47 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
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8
9
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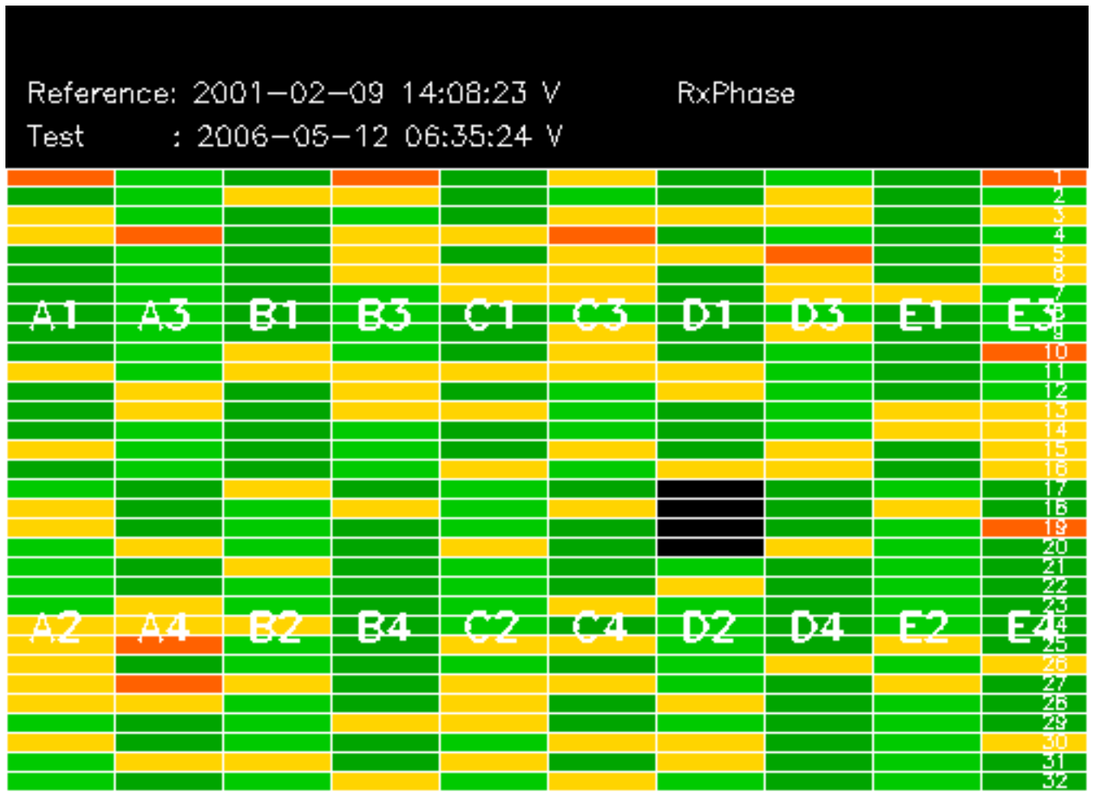
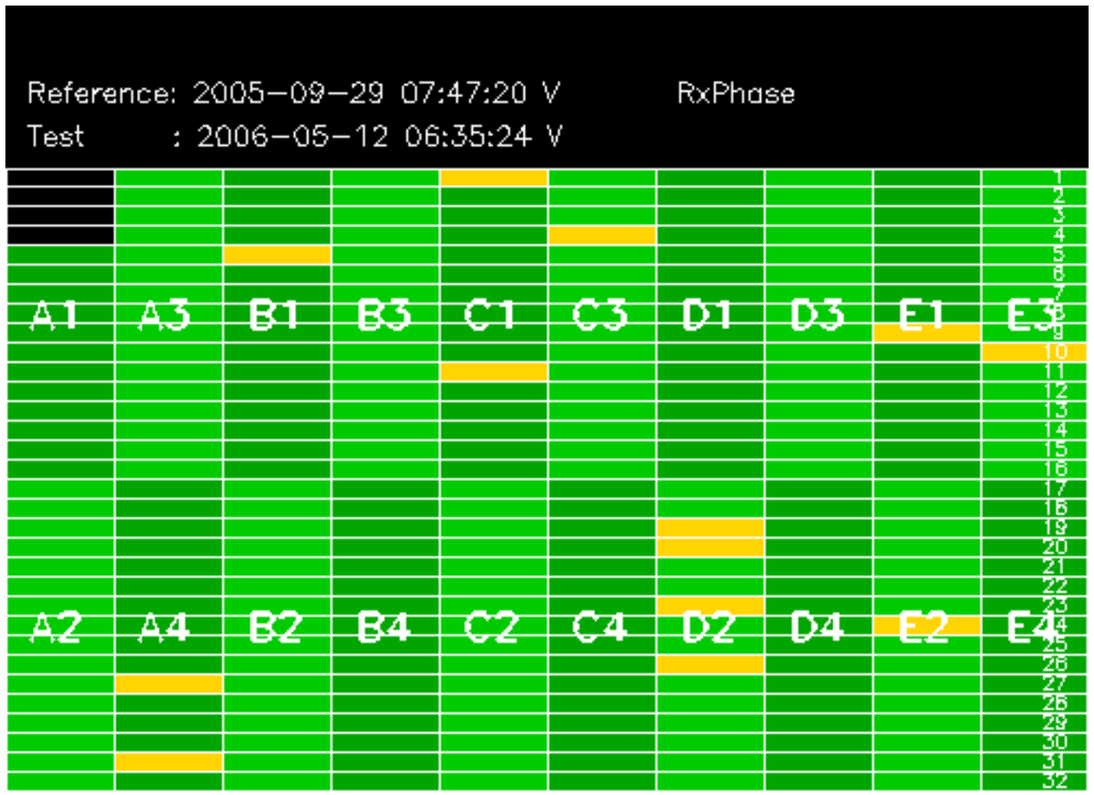

Reference: 2001-02-09 14:08:23 V
Test : 2006-05-12 06:35:24 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-05-12 06:35:24 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
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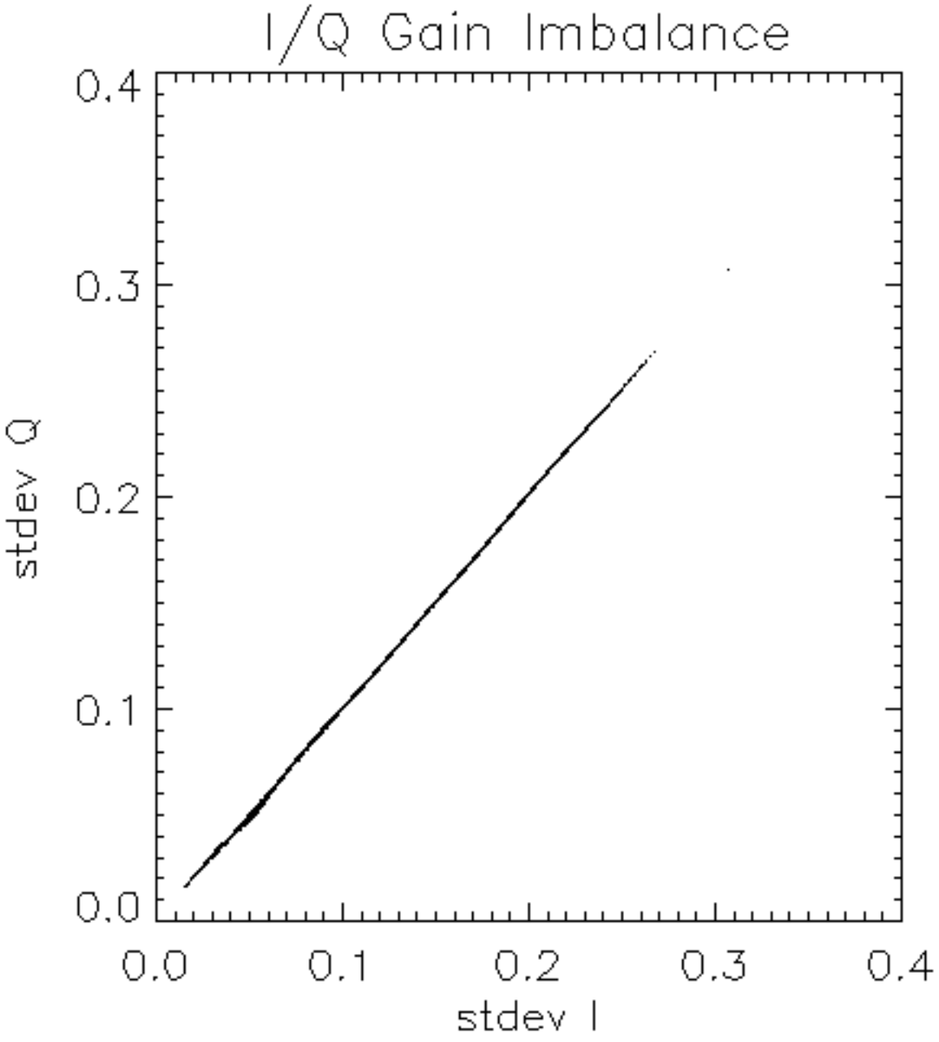
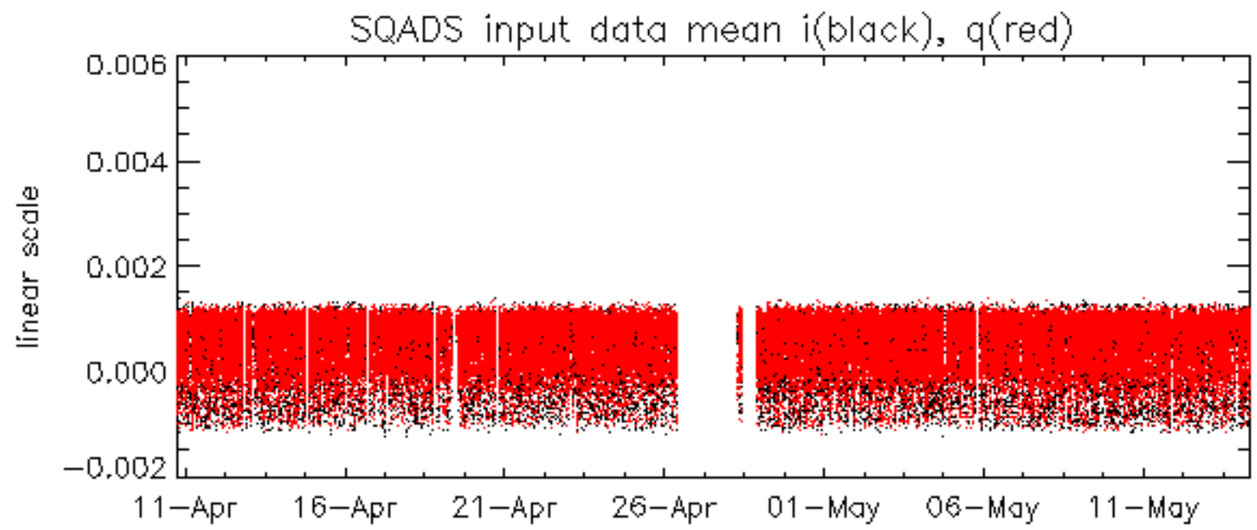
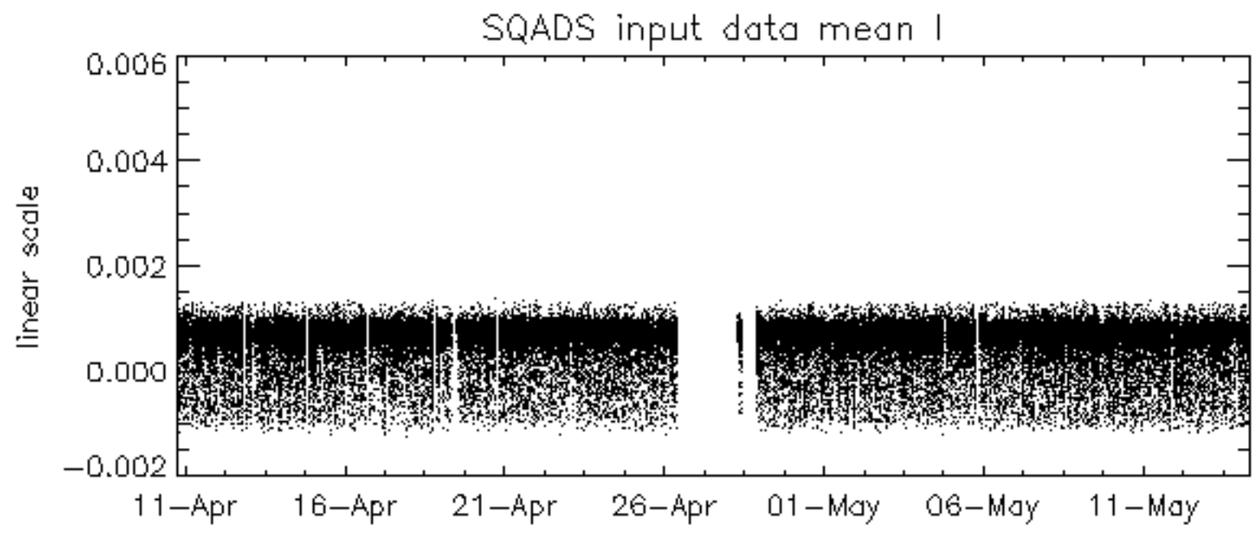
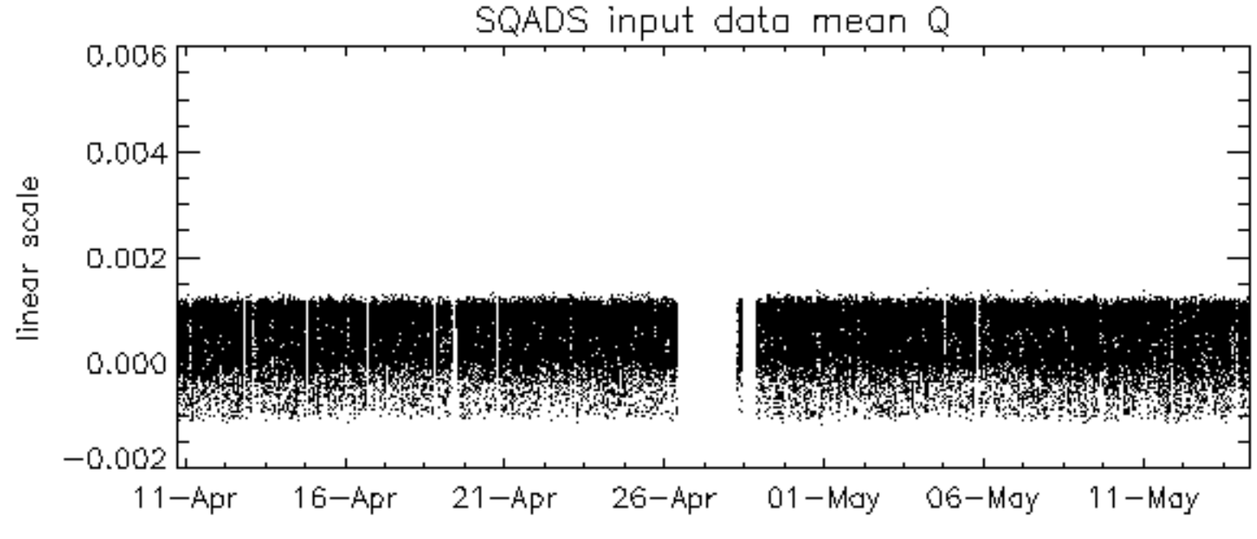
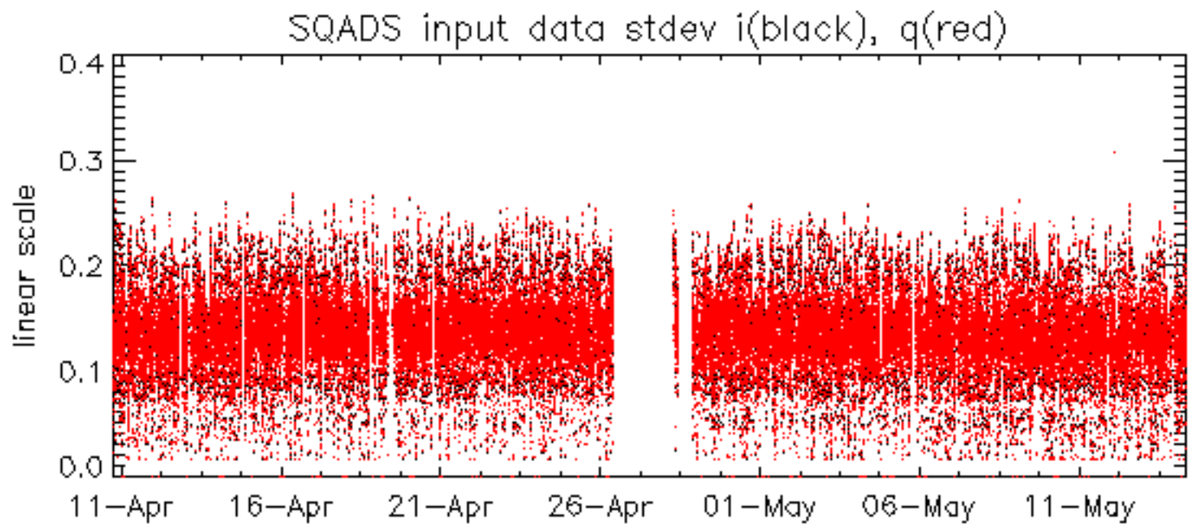
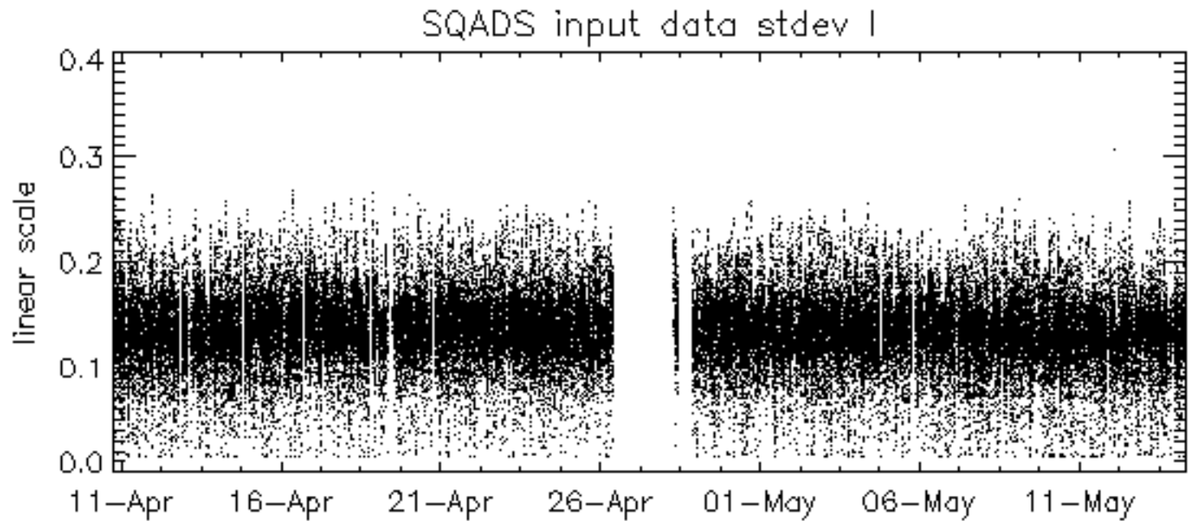

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

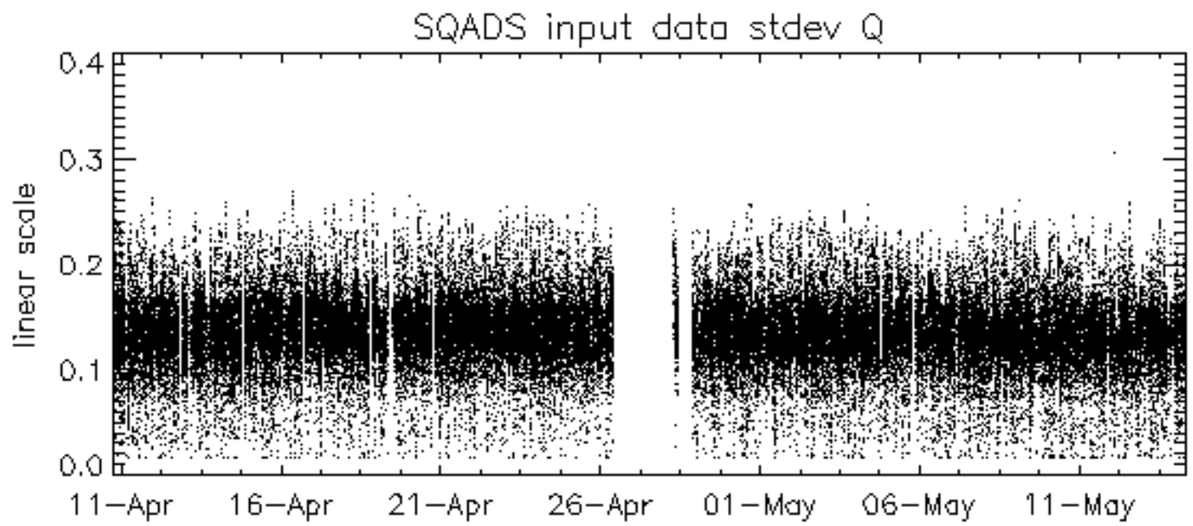

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Apr
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May

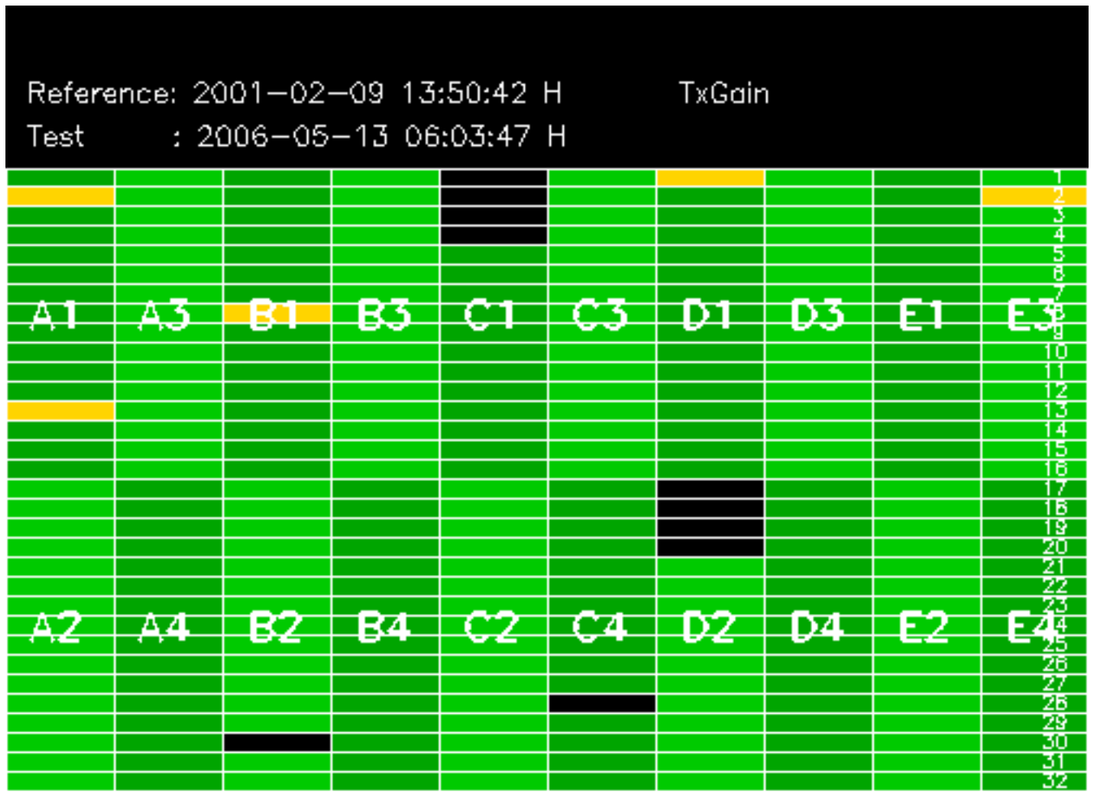

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Apr
16−Apr
21−Apr
26−Apr
01−May
06−May
11−May


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-13 06:03:47 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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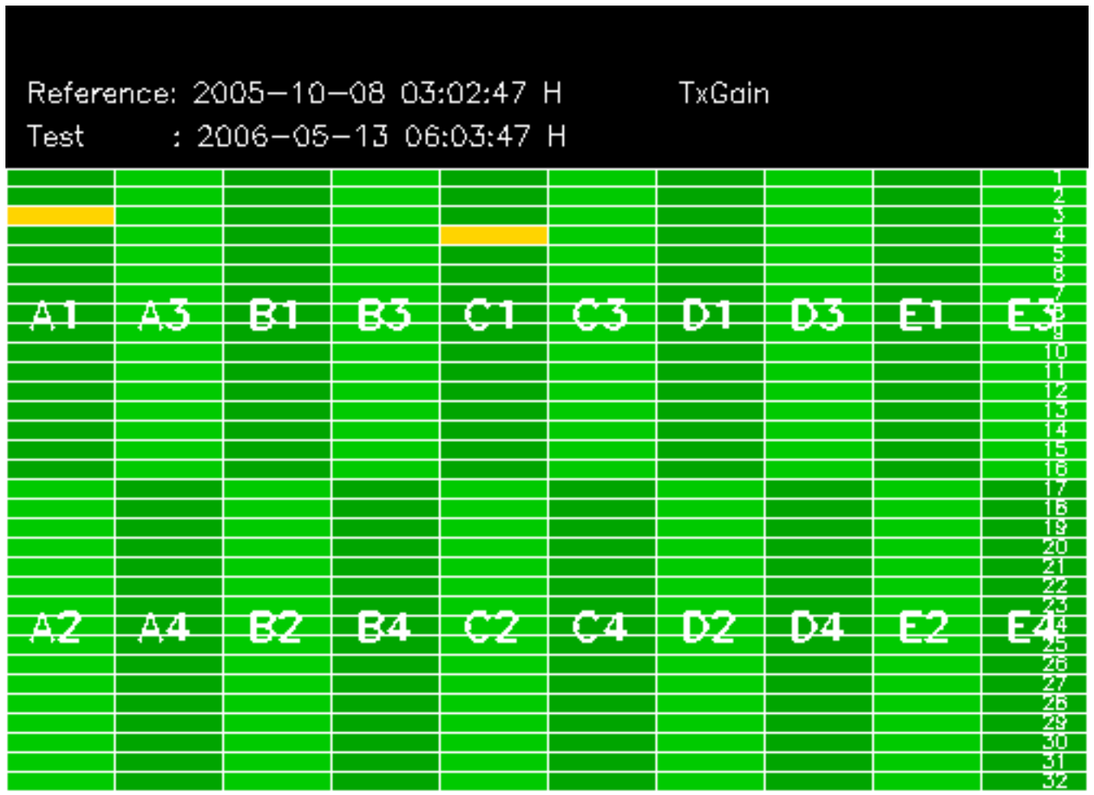
Reference: 2005-10-08 03:02:47 H
Test : 2006-05-13 06:03:47 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
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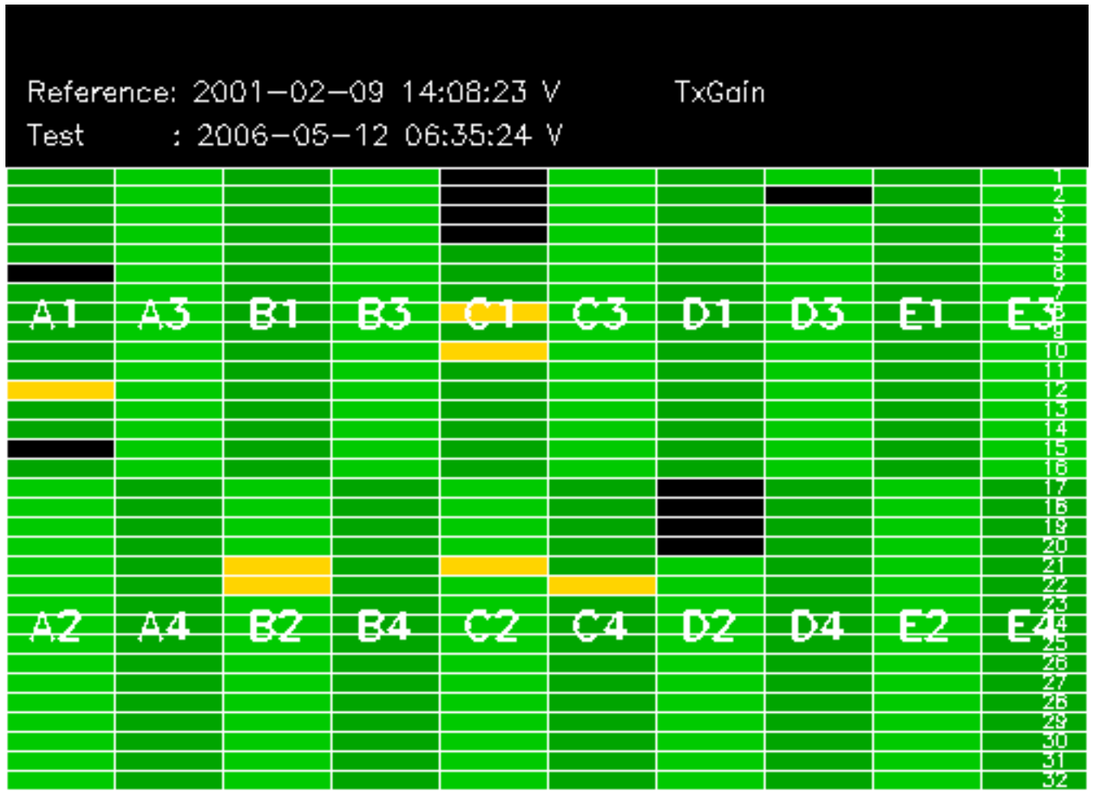
Reference: 2001-02-09 14:08:23 V
Test : 2006-05-12 06:35:24 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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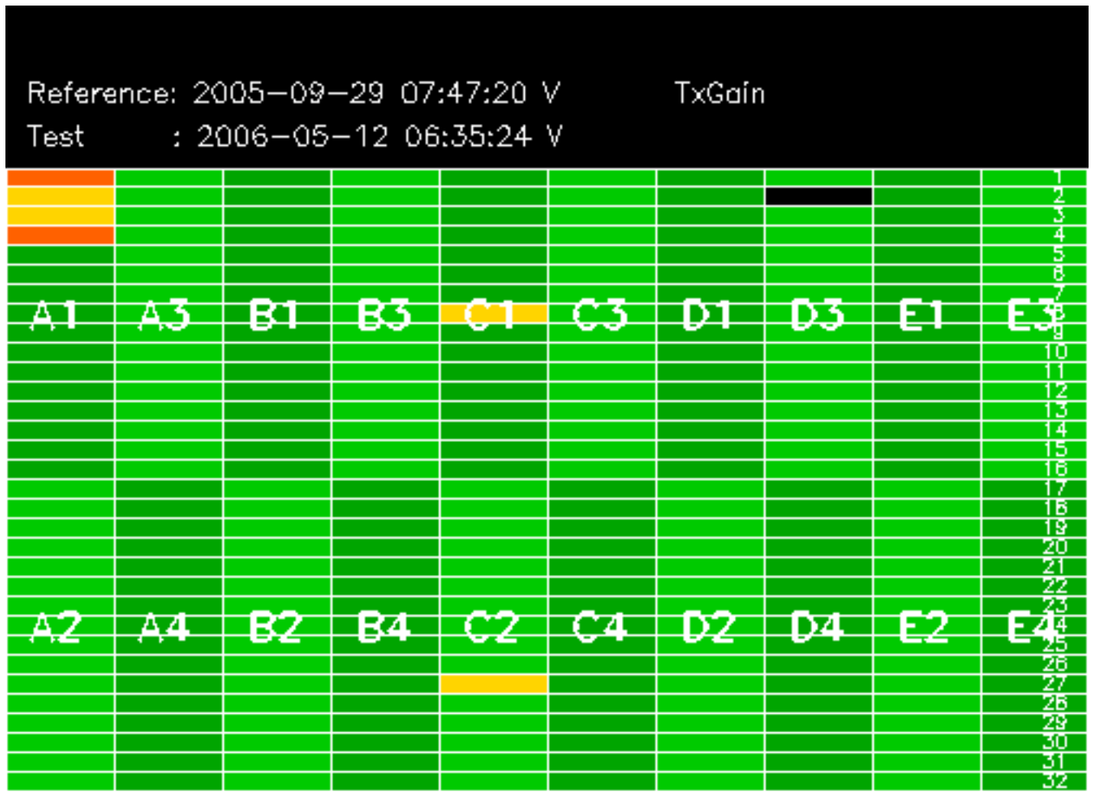
Reference: 2005-09-29 07:47:20 V
Test : 2006-05-12 06:35:24 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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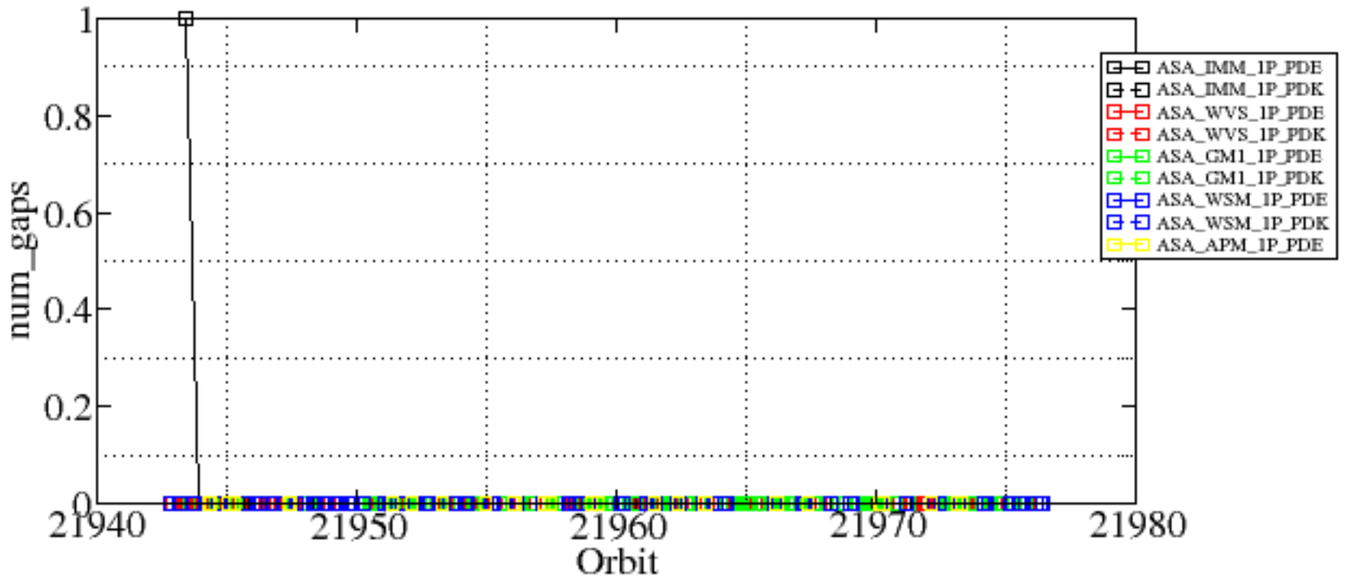
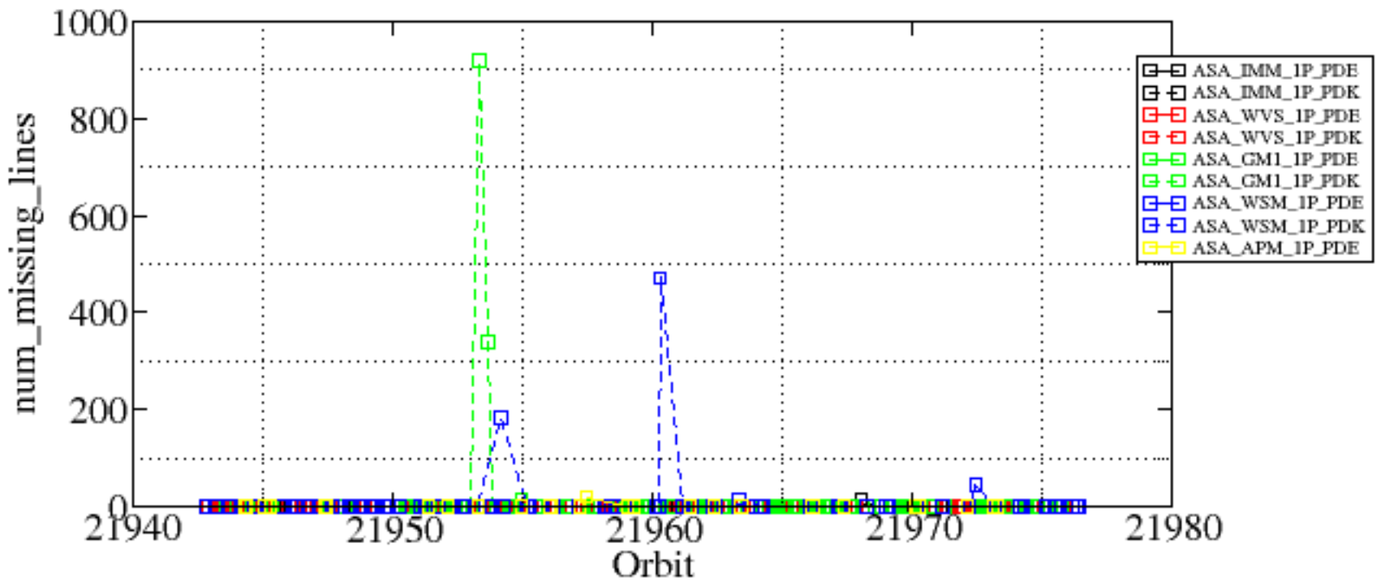
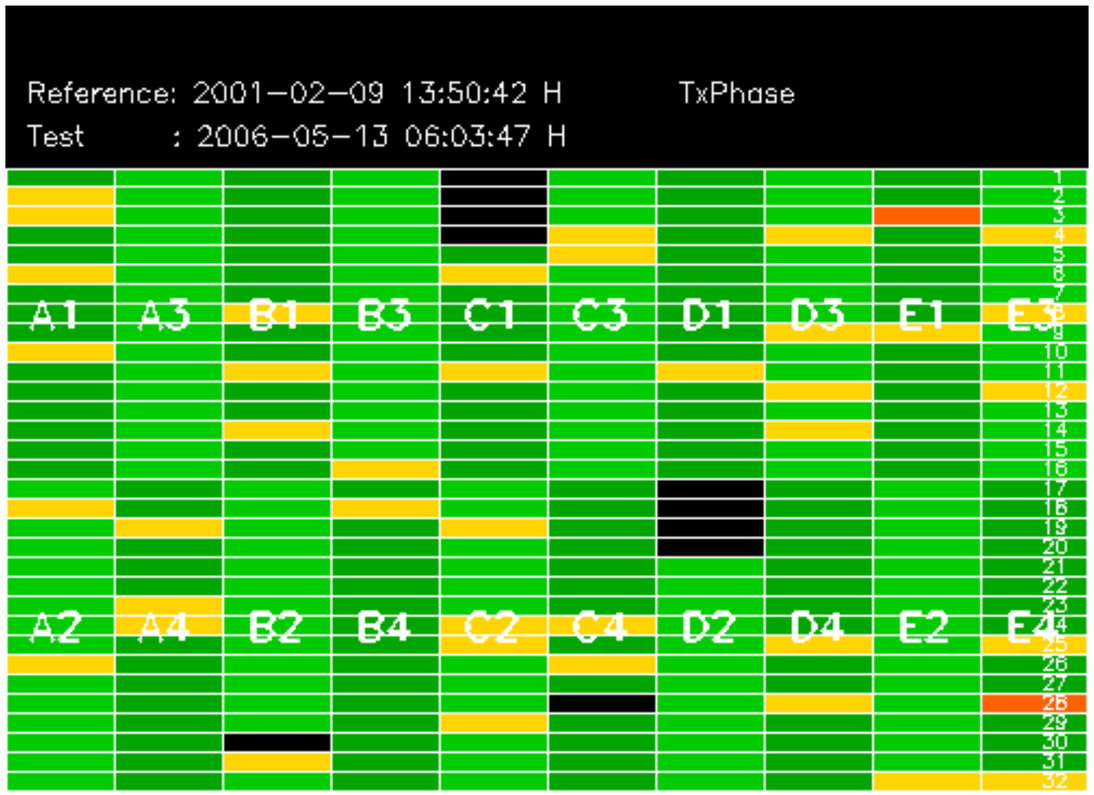
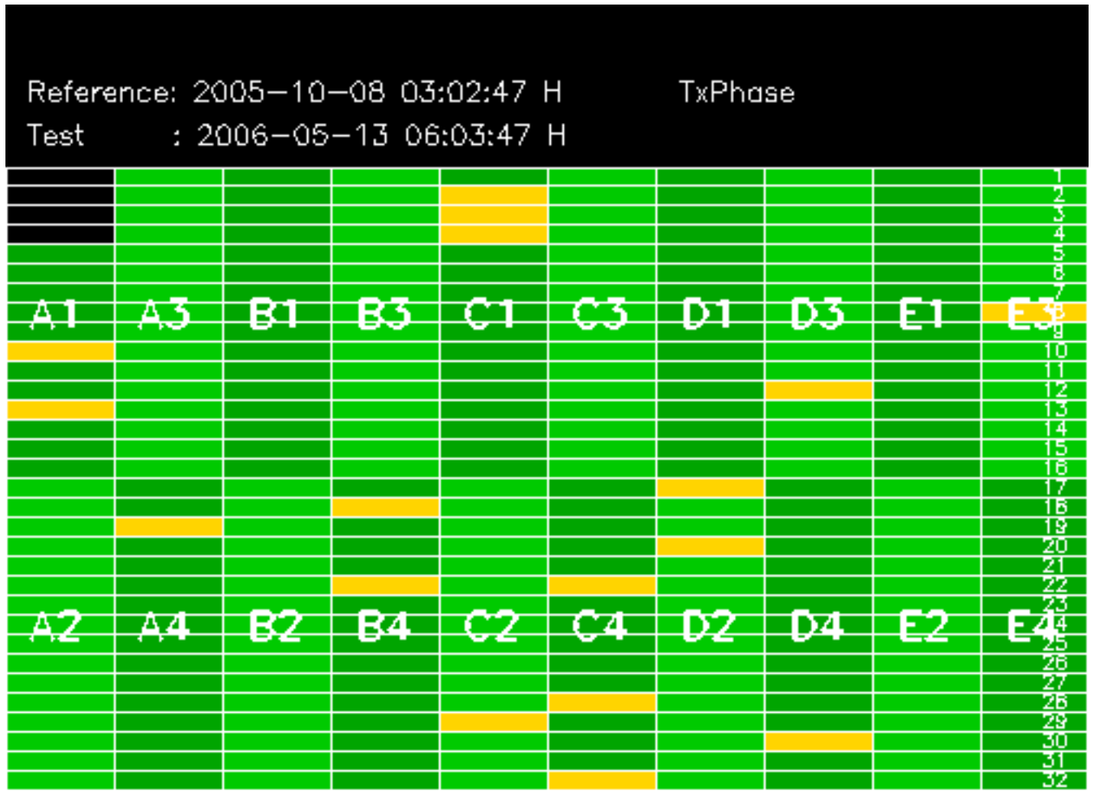
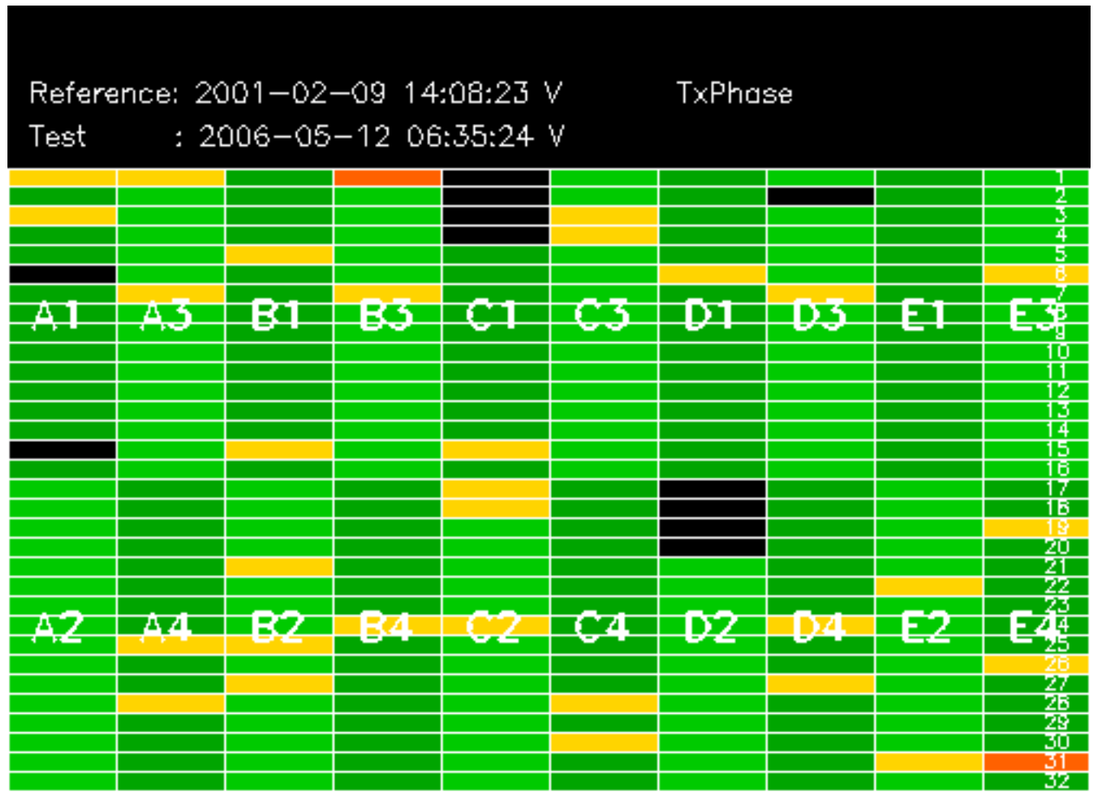
Summary of analysis for the last 3 days 2006051[234]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th>  num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060512_010614_000000832047_00346_21943_4800.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060513_182646_000000352047_00371_21968_4970.N1 </td> <td>0 </td> <td>15 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20060512_174532_000002112047_00356_21953_3153.N1 </td> <td>0 </td> <td>919 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20060512_181941_000001262047_00356_21953_3154.N1 </td> <td>0 </td> <td>339 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20060512_202829_000003742047_00357_21954_3164.N1 </td> <td>0 </td> <td>15 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060514_014737_000000862047_00375_21972_9156.N1 </td> <td>0 </td> <td>45 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20060512_191044_000000672047_00357_21954_4898.N1 </td> <td>0 </td> <td>184 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20060513_052729_000000122047_00363_21960_4998.N1 </td> <td>0 </td> <td>472 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20060513_103058_000001292047_00366_21963_4958.N1 </td> <td>0 </td> <td>15 </td></tr>
<tr> <td>ASA_APM_1PNPDE20060513_004223_000000562047_00360_21957_2192.N1 </td> <td>0 </td> <td>19 </td></tr>
</table><br><br><br>


num_gaps
1
0.8
0.6
0.4
0.2
0
21940
21950
21960
21970
21980
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


num_missing_lines
1000
800
600
400
200
0
21940
21950
21960
21970
21980
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


Reference: 2001-02-09 13:50:42 H
Test : 2006-05-13 06:03:47 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2006-05-13 06:03:47 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2006-05-12 06:35:24 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
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29
30
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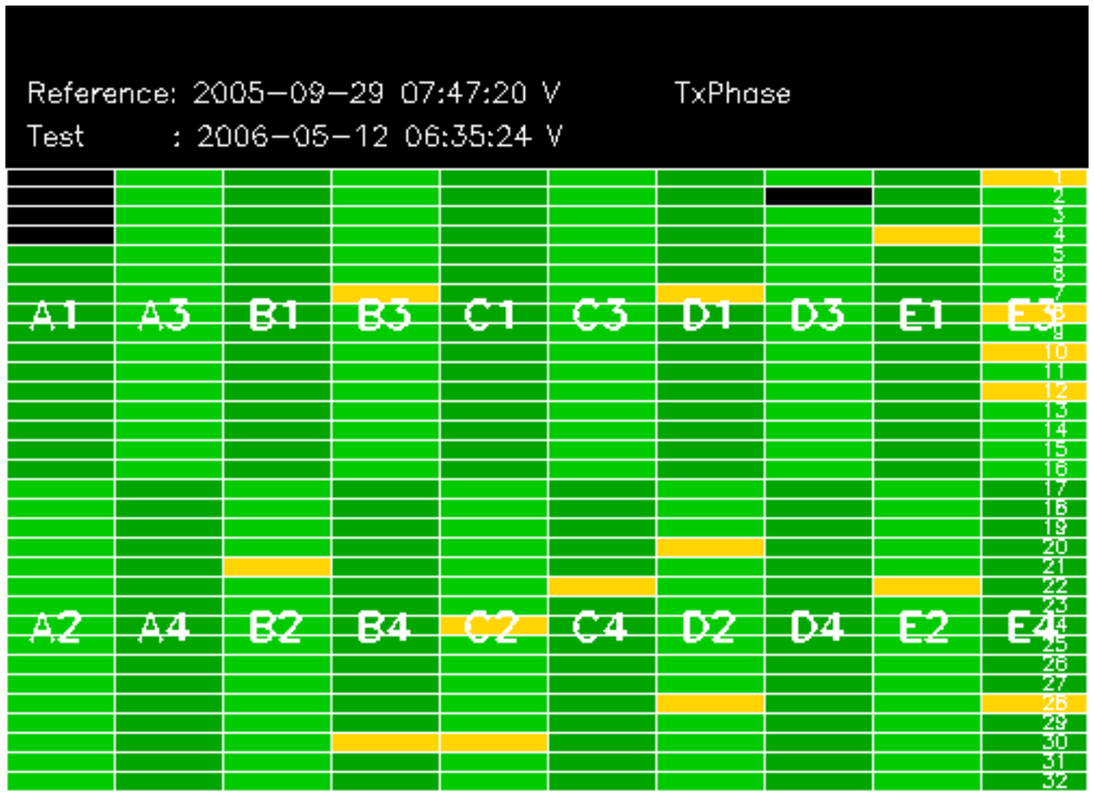
32


Reference: 2005-09-29 07:47:20 V
Test : 2006-05-12 06:35:24 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
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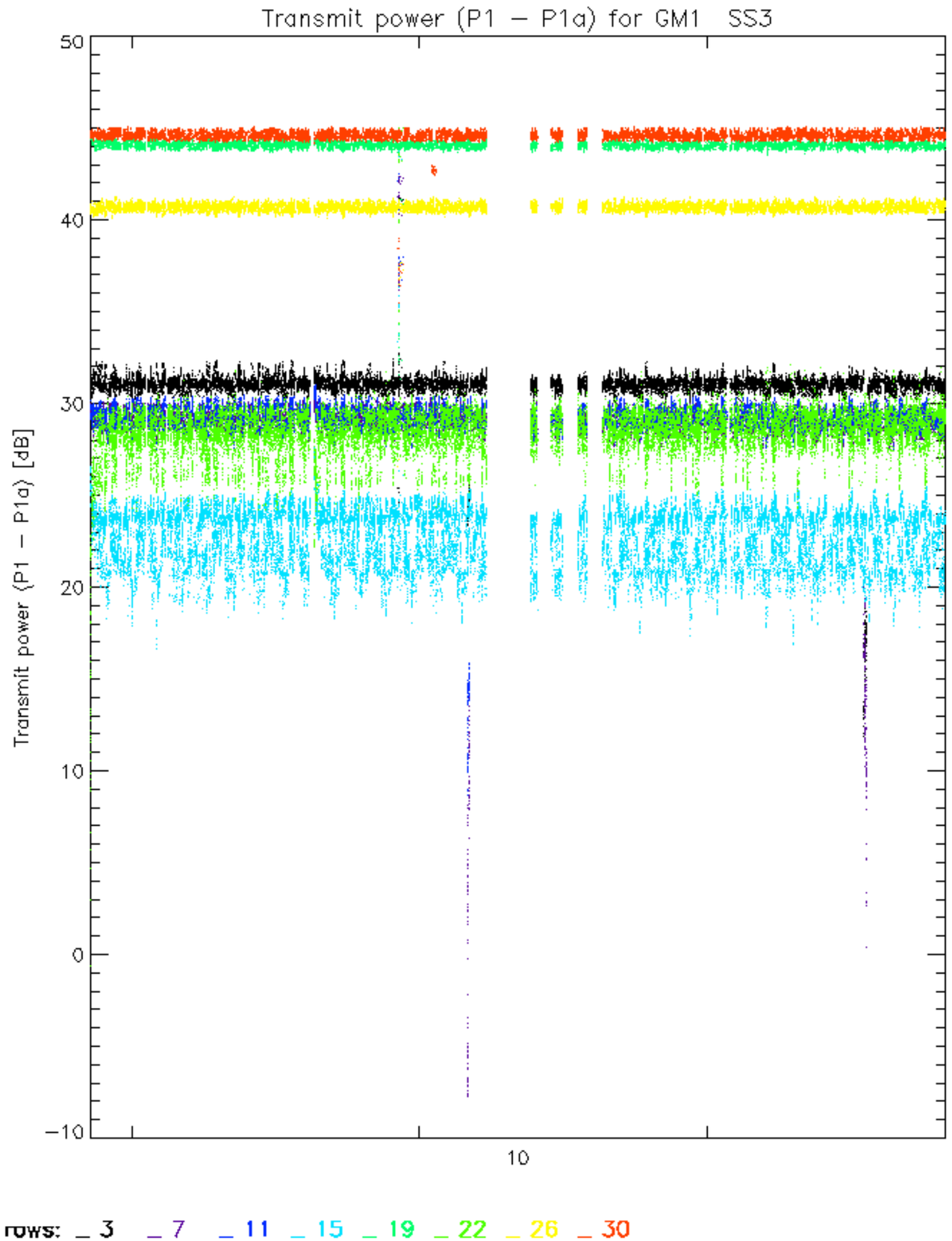
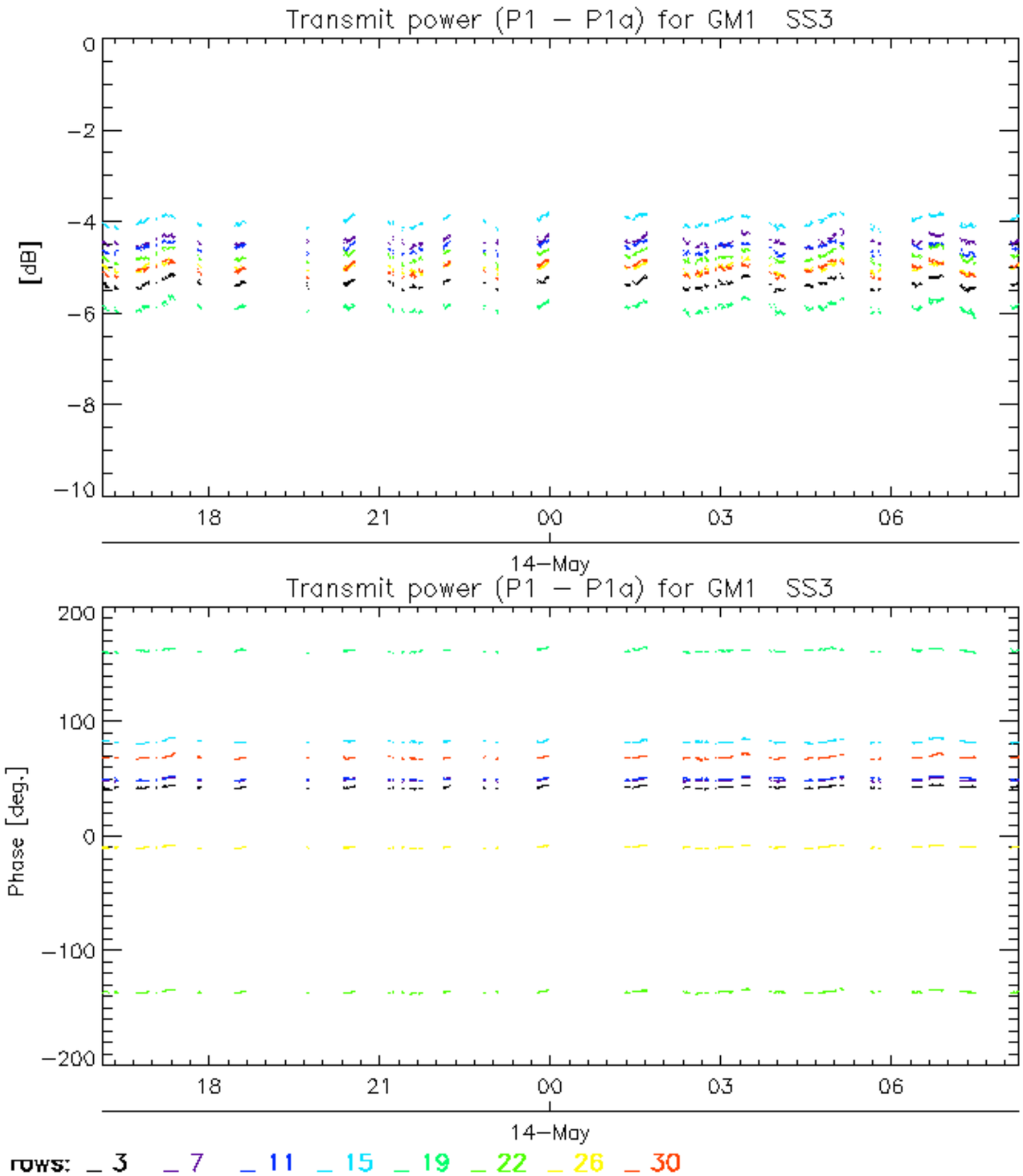
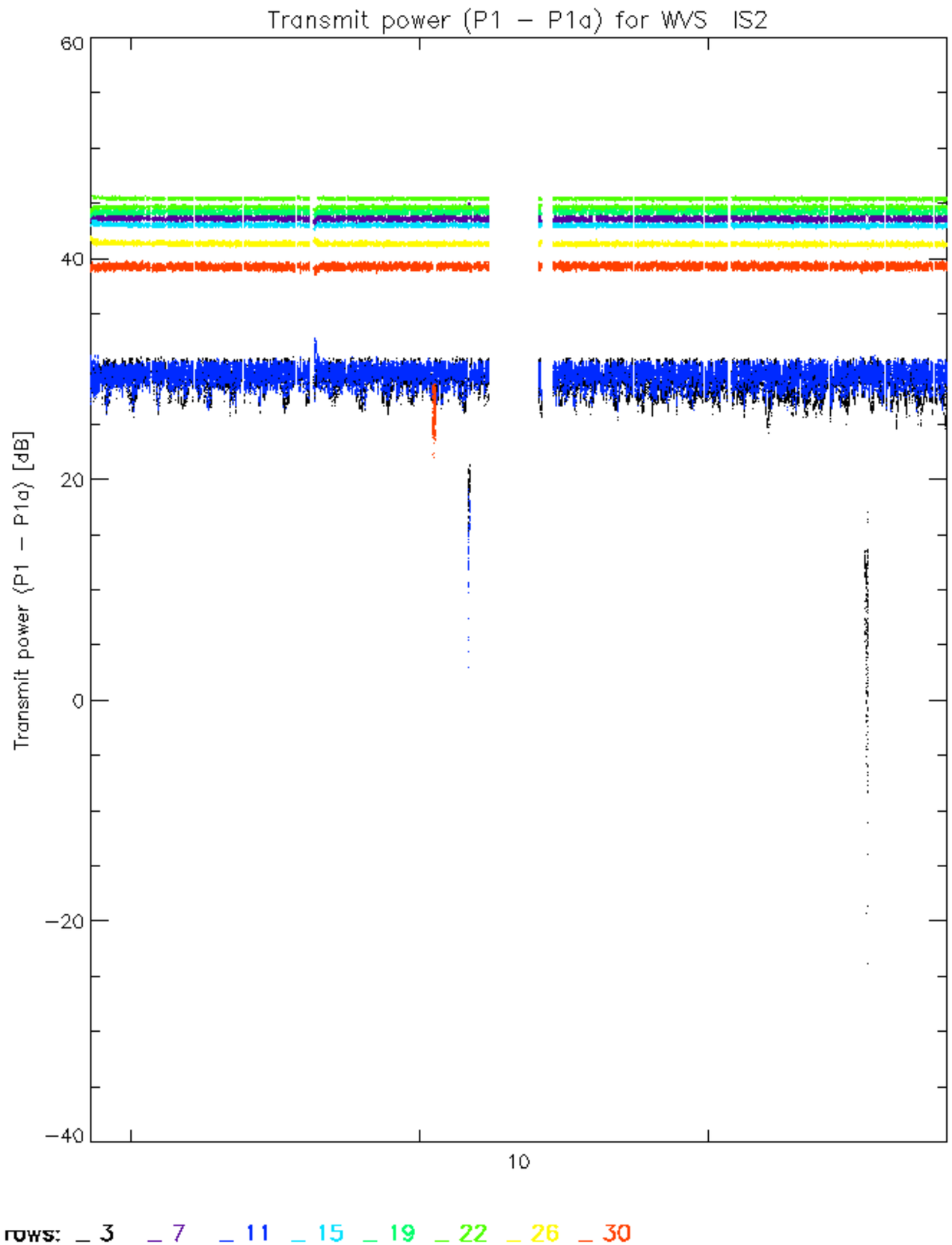
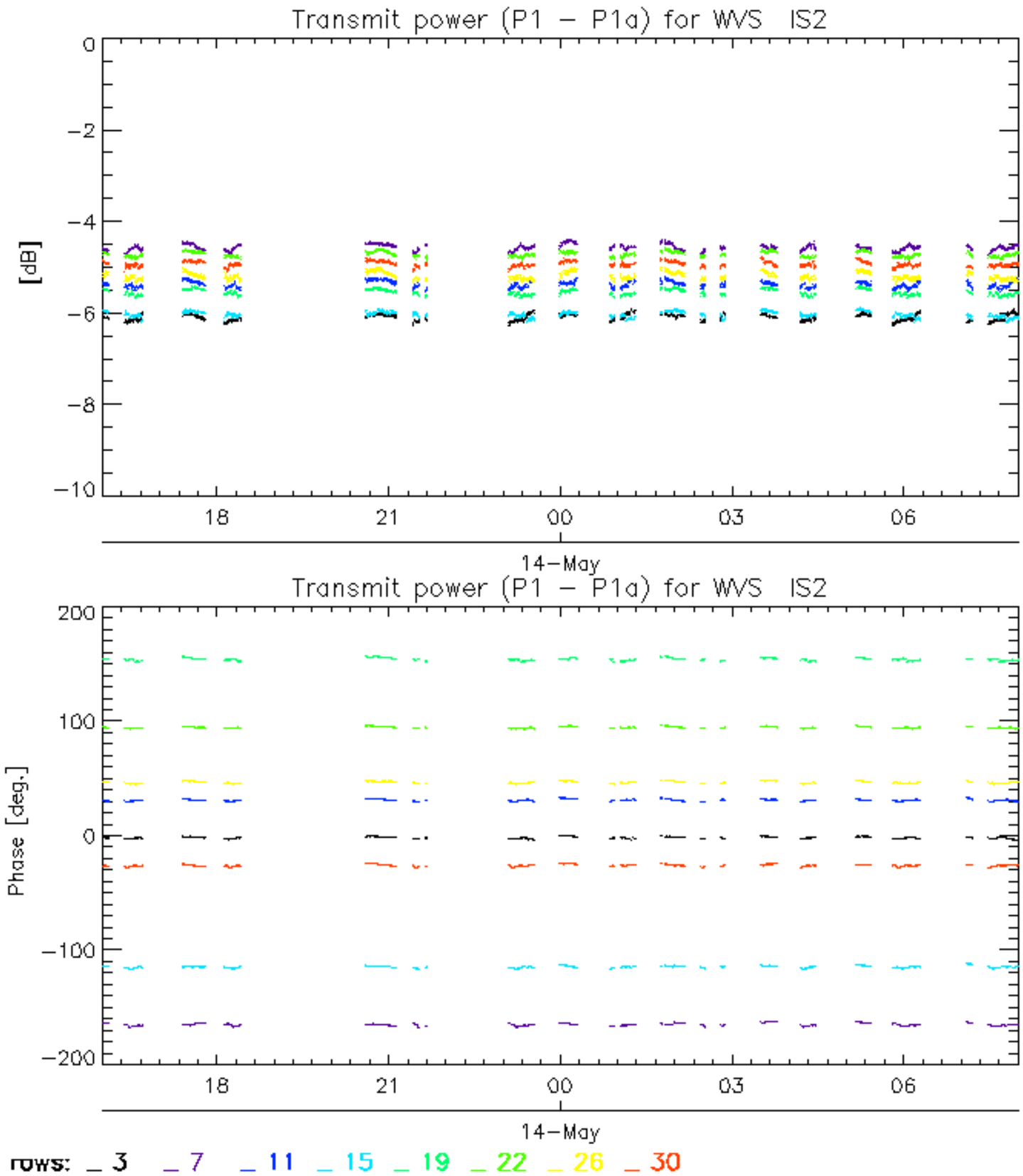
29
30
31
32


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


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


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
60
40
20
0
−20
−40
10
rows: 3 7 11 15 19 22 26 30


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

No unavailabilities during the reported period.