# PRELIMINARY REPORT OF 070216

### last update on Fri Feb 16 16:19:20 GMT 2007

Due to an ASAR test acquisition campaign, the daily analysis on WVS products will be based on IS4 instead of IS2 during the following periods:

From orbit 25621 (23-Jan-2007) to 25720 (30-Jan-2007) in HH polarization
From orbit 26122 (27-Feb-2007) to 26221 (06-Mar-2007) in HH polarization
From orbit 25721 (30-Jan-2007) to 25820 (06-Feb-2007) in VV polarization
From orbit 26222 (06-Mar-2007) to 26321 (13-Mar-2007) in VV polarization



## 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 2007-02-15 00:00:00 to 2007-02-16 16:19:20**

| PDHS-K | | | | | |
|---|---|---|---|---|---|
| **AUXILIARY FILE** | **WVS** | **GM1** | **IMM** | **APM** | **WSM** |
| ASA_XCA_AXVIEC20070215_184638_20070204_165113_20071231_000000 | 16 | 28 | 10 | 0 | 21 |
| ASA_CON_AXVIEC20070215_184018_20070204_165113_20071231_000000 | 16 | 28 | 10 | 0 | 21 |
| ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000 | 21 | 42 | 5 | 1 | 15 |
| ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000 | 21 | 42 | 5 | 1 | 15 |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 37 | 70 | 15 | 1 | 36 |
| ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000 | 37 | 70 | 15 | 1 | 36 |

| PDHS-E | | | | | |
|---|---|---|---|---|---|
| **AUXILIARY FILE** | **WVS** | **GM1** | **IMM** | **APM** | **WSM** |
| ASA_XCA_AXVIEC20070215_184638_20070204_165113_20071231_000000 | 28 | 38 | 18 | 5 | 31 |
| ASA_CON_AXVIEC20070215_184018_20070204_165113_20071231_000000 | 28 | 38 | 18 | 5 | 31 |
| ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000 | 12 | 14 | 19 | 7 | 21 |
| ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000 | 12 | 14 | 19 | 7 | 21 |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 40 | 52 | 37 | 12 | 52 |
| ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000 | 40 | 52 | 37 | 12 | 52 |

## 2.3 - Browse Visual Inspection

No anomalies observed on available browse products

## 2.4 - Data Analysis

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

# 3 - Module Stepping Mode

No anomalies observed on available MS products:

| **Polarisation** | **Start Time** |
|---|---|

| | |
|---|---|
| V | 20070216 063522 |
| H | 20070215 070659 |

**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 |
|---|
| ☒ |
| ☒ |

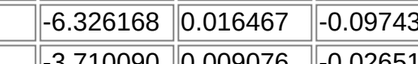
### 4.1.2 - Evolution for GM1

| 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 | -15.203314 | 0.294098 | 2.362852 |
| 7 | P1a | -17.404604 | 0.109207 | -0.324169 |
| 11 | P1a | -17.330994 | 0.358049 | 0.000797 |
| 15 | P1a | -12.836306 | 0.117143 | -0.271513 |
| 19 | P1a | -15.094521 | 0.095163 | -0.127022 |
| 22 | P1a | -15.505094 | 0.480787 | -0.347004 |
| 26 | P1a | -14.996137 | 0.238289 | -0.149962 |
| 30 | P1a | -17.300682 | 0.373223 | -0.466422 |

### P1\t Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P1 | -5.572452 | 0.229411 | -2.604057 |
| 7 | P1 | -3.107977 | 0.009359 | -0.091670 |
| 11 | P1 | -4.132878 | 0.019621 | -0.114285 |
| 15 | P1 | -6.326168 | 0.016467 | -0.097437 |
| 19 | P1 | -3.710090 | 0.009076 | -0.026513 |
| 22 | P1 | -4.677085 | 0.014208 | -0.024282 |
| 26 | P1 | -3.930768 | 0.014079 | -0.012112 |
| 30 | P1 | -5.920091 | 0.012361 | -0.055851 |

### P2 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P2 | -22.498819 | 0.357122 | -2.898067 |

| | | | | |
|---|---|---|---|---|
| 7 | P2 | -21.614876 | 0.084597 | 0.057745 |
| 11 | P2 | -15.485585 | 0.102544 | 0.031732 |
| 15 | P2 | -7.018648 | 0.099818 | -0.077204 |
| 19 | P2 | -9.085103 | 0.087740 | -0.063461 |
| 22 | P2 | -18.103121 | 0.083824 | -0.099754 |
| 26 | P2 | -16.508102 | 0.098225 | -0.096364 |
| 30 | P2 | -19.337212 | 0.079512 | -0.045554 |

**P3 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P3 | -8.204117 | 0.007861 | -0.015006 |
| 7 | P3 | -8.204117 | 0.007861 | -0.015006 |
| 11 | P3 | -8.204117 | 0.007861 | -0.015006 |
| 15 | P3 | -8.204117 | 0.007861 | -0.015006 |
| 19 | P3 | -8.204117 | 0.007861 | -0.015006 |
| 22 | P3 | -8.204117 | 0.007861 | -0.015006 |
| 26 | P3 | -8.204117 | 0.007861 | -0.015006 |
| 30 | P3 | -8.204117 | 0.007861 | -0.015006 |

### 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 | -11.370852 | 0.148533 | 1.386409 |
| 7 | P1a | -10.035319 | 0.059543 | -0.081427 |
| 11 | P1a | -10.573668 | 0.060910 | -0.339520 |
| 15 | P1a | -10.849572 | 0.130640 | -0.114231 |
| 19 | P1a | -15.746413 | 0.063549 | -0.006834 |
| 22 | P1a | -20.883410 | 1.291424 | 0.450727 |
| 26 | P1a | -15.447363 | 0.259652 | 0.255016 |
| 30 | P1a | -18.334860 | 0.364691 | -0.116379 |

**P1\t Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P1 | -6.537130 | 4.210361 | -8.949886 |
| 7 | P1 | -2.440630 | 0.005887 | -0.000585 |
| 11 | P1 | -2.882783 | 0.016812 | -0.143814 |
| 15 | P1 | -3.796737 | 0.033788 | -0.123437 |
| 19 | P1 | -3.552304 | 0.012991 | -0.022560 |
| 22 | P1 | -5.026338 | 0.023308 | -0.017814 |
| 26 | P1 | -5.994056 | 0.023243 | 0.027416 |
| 30 | P1 | -5.290174 | 0.023016 | 0.000177 |

**P2 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P2 | -17.288784 | 0.854688 | -3.889144 |
| 7 | P2 | -22.011208 | 0.050695 | 0.120358 |
| 11 | P2 | -10.681533 | 0.031394 | 0.073372 |
| 15 | P2 | -4.832828 | 0.027030 | 0.051345 |
| 19 | P2 | -6.831304 | 0.028291 | 0.056833 |
| 22 | P2 | -8.139917 | 0.030242 | 0.057346 |
| 26 | P2 | -24.254021 | 0.032095 | 0.006199 |
| 30 | P2 | -21.789282 | 0.034285 | 0.059275 |

**P3 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P3 | -8.051433 | 0.002900 | 0.022528 |
| 7 | P3 | -8.051457 | 0.002912 | 0.021622 |
| 11 | P3 | -8.051484 | 0.002898 | 0.022001 |
| 15 | P3 | -8.051476 | 0.002900 | 0.022112 |
| 19 | P3 | -8.051416 | 0.002892 | 0.022284 |
| 22 | P3 | -8.051510 | 0.002898 | 0.022188 |
| 26 | P3 | -8.051351 | 0.002895 | 0.022433 |
| 30 | P3 | -8.051408 | 0.002903 | 0.022194 |

## 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 | 0.000640224 |
| | stdev | 2.52207e-07 |
| MEAN Q | mean | 0.000356015 |
| | stdev | 2.52557e-07 |



## 5.2 - Input stdev I/Q

| channel | stat | DSS-B |
|---|---|---|
| STDEV I | mean | 0.0940939 |
| | stdev | 0.00252470 |
| STDEV Q | mean | 0.0940055 |
| | stdev | 0.00257404 |



## 5.3 - Gain imbalance I/Q



# 6 - Telemetry analysis

Summary of analysis for the last 3 days 2007021[456]
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_1PNPDE20070215_081235_000003682055_00336_25941_8530.N1 | 15 | 2459 |
| ASA_IMM_1PNPDE20070216_012024_000000352055_00346_25951_9272.N1 | 1 | 0 |
| ASA_GM1_1PNPDK20070214_130229_000004652055_00324_25929_5768.N1 | 0 | 9 |
| ASA_GM1_1PNPDK20070216_072909_000004652055_00350_25955_7551.N1 | 0 | 14 |

# 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 |

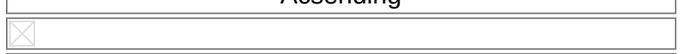
## 7.2 - Absolute Doppler for WVS

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

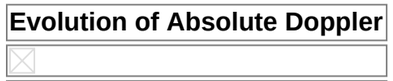
## 7.3 - Doppler evolution versus ANX for WVS

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

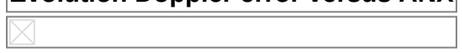
## 7.4 - Unbiased Doppler Error for GM1

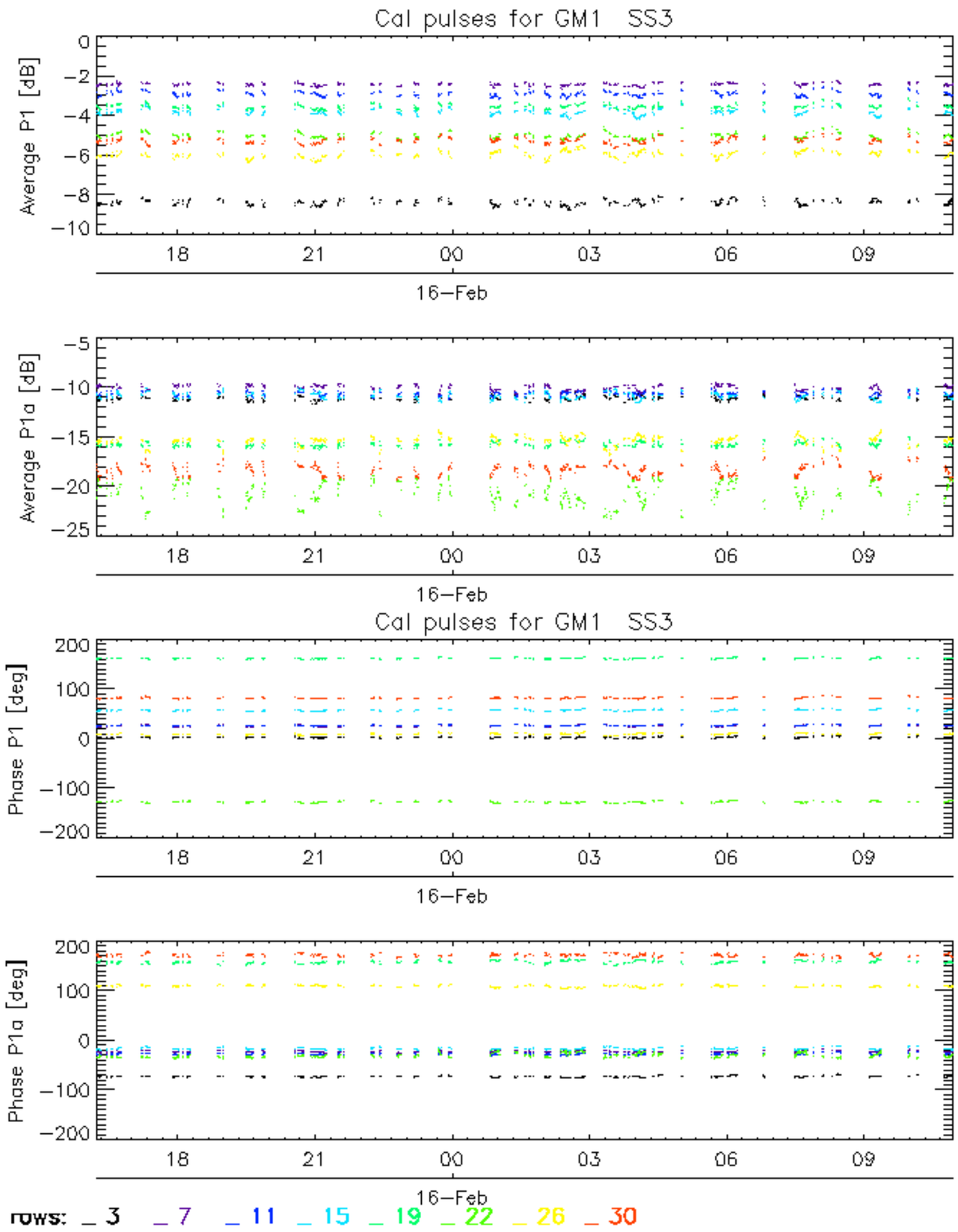
| Evolution of unbiased Doppler error (Real - Expected) |
| --- |
|  |
| Acsending |
|  |
| Descending |

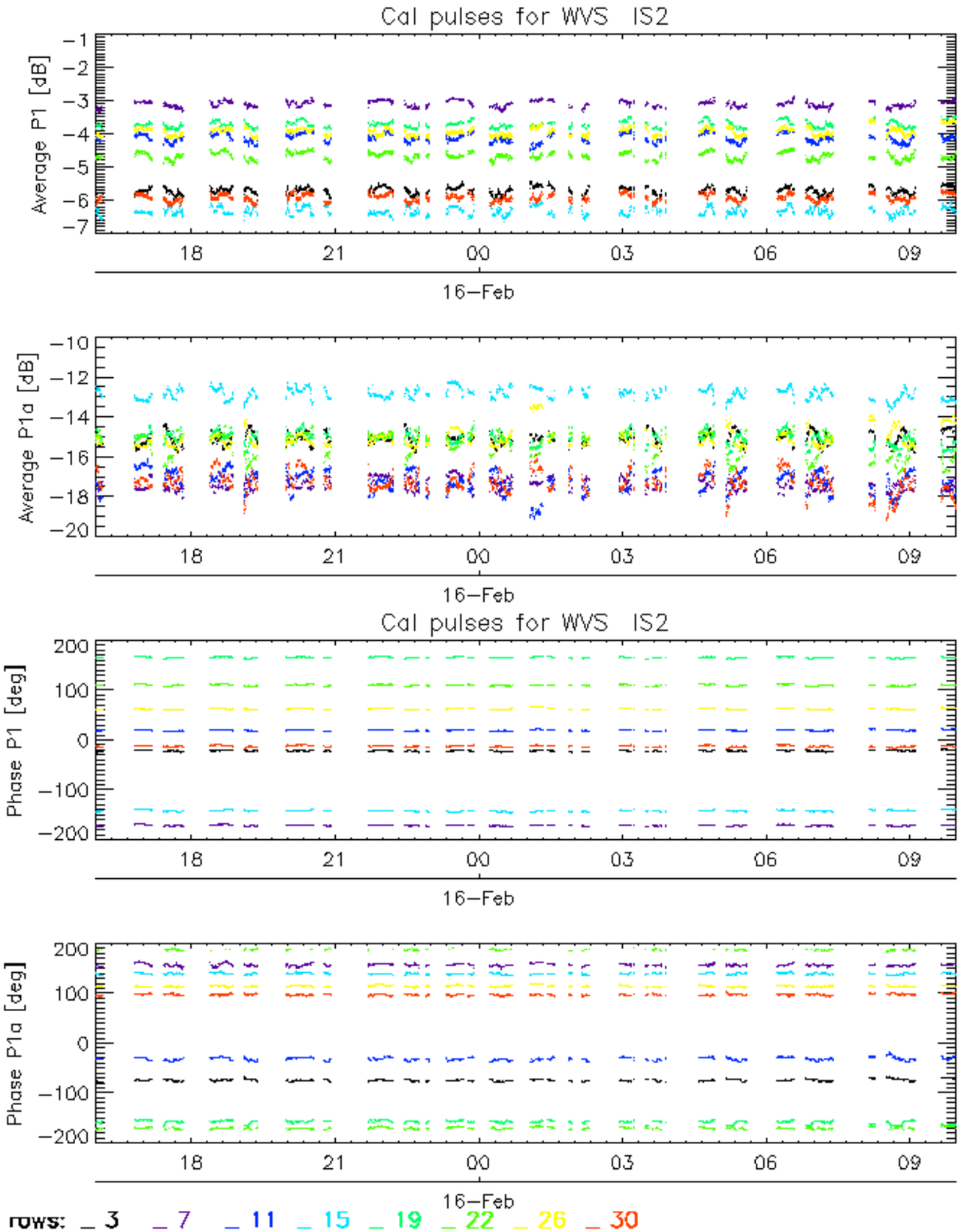
## 7.5 - Absolute Doppler for GM1

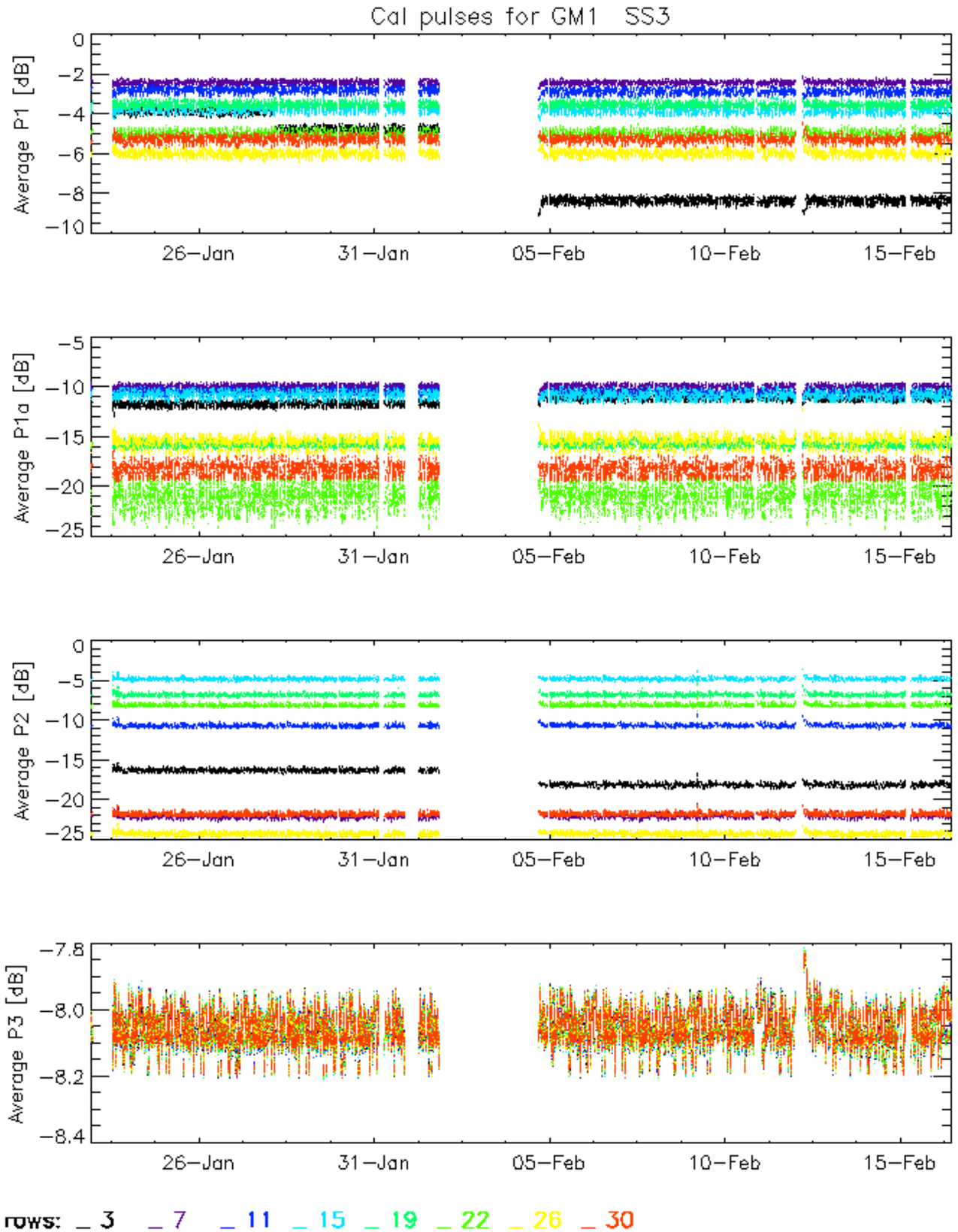
| Evolution of Absolute Doppler |
| --- |
|  |
| Acsending |
|  |
| Descending |

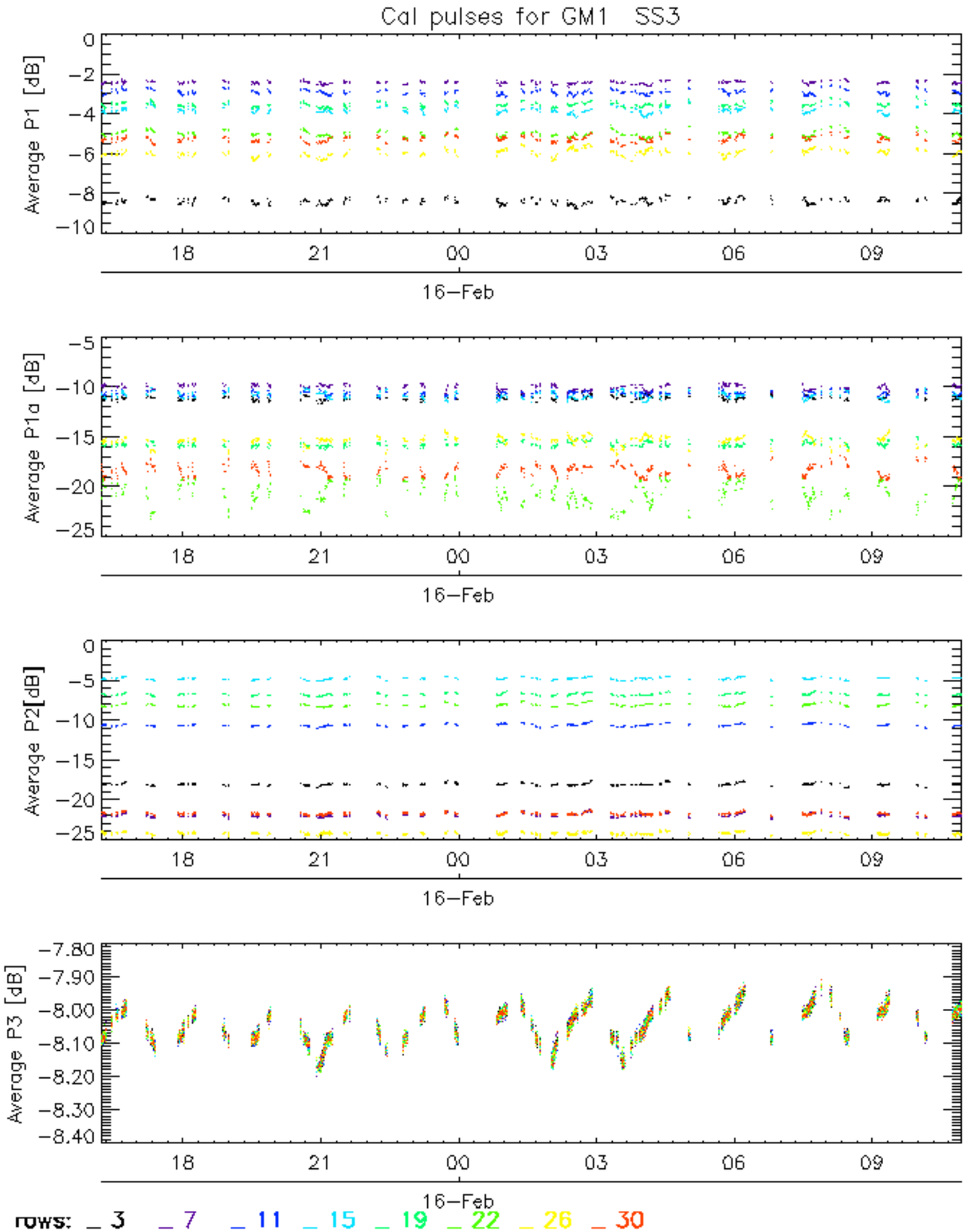
## 7.6 - Doppler evolution versus ANX for GM1

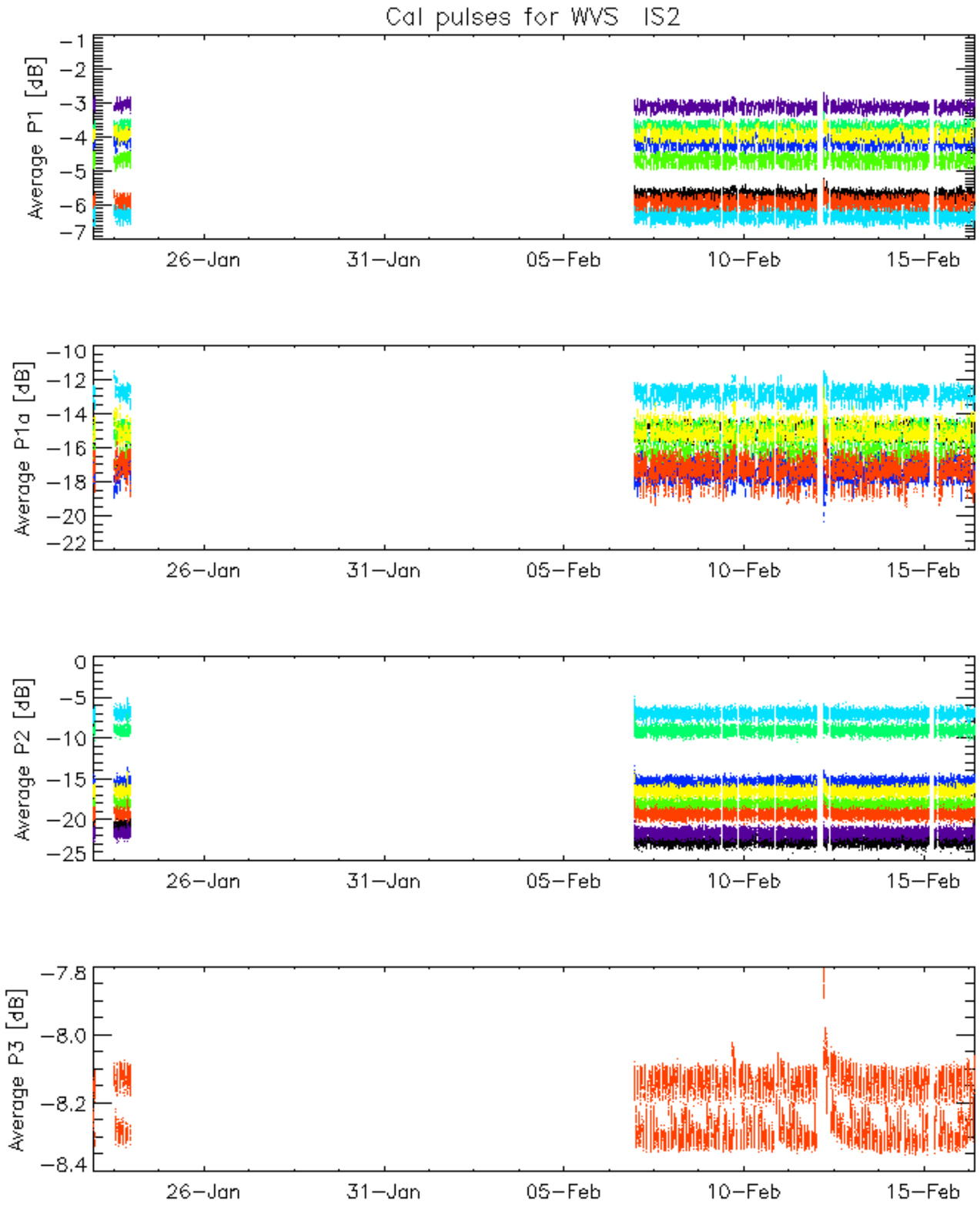
| Evolution Doppler error versus ANX |
| --- |
|  |

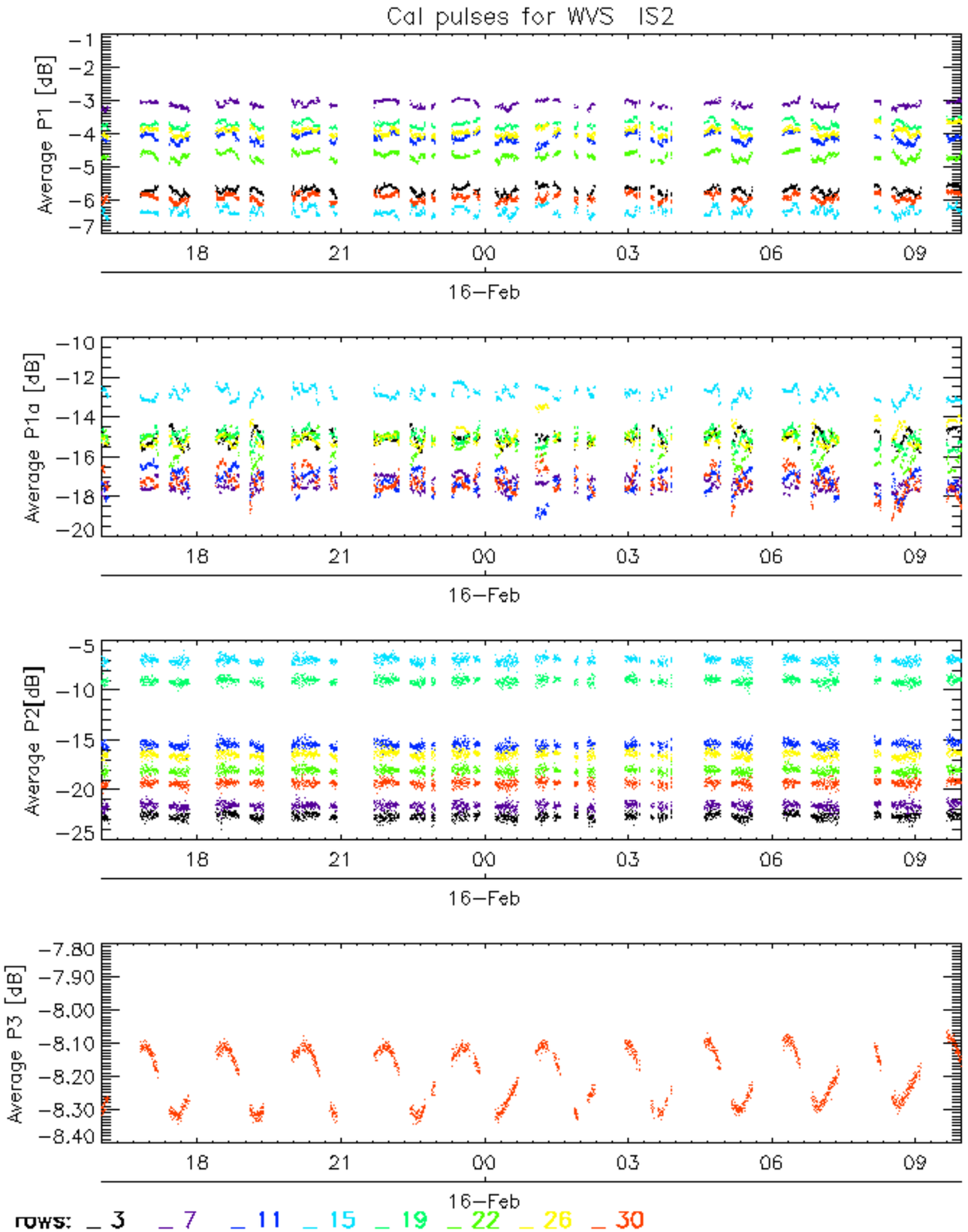

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
18
21
00
03
06
09
16−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
09
16−Feb
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
09
16−Feb
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
09
16−Feb
rows: 3 7 11 15 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
16−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
09
16−Feb
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
09
16−Feb
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
09
16−Feb
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30

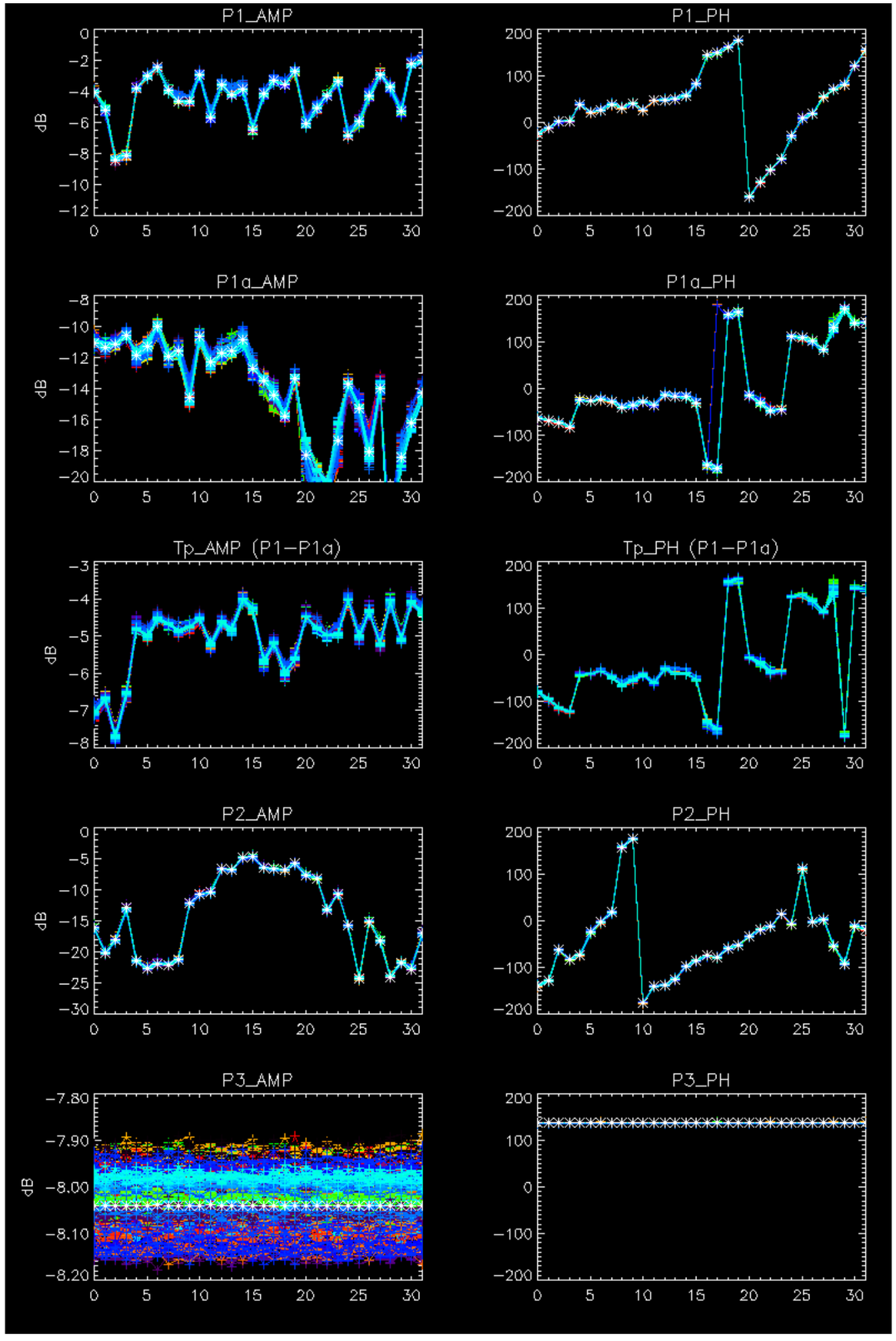

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
18
21
00
03
06
09
16−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
09
16−Feb
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
09
16−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
09
16−Feb
rows: _ 3 _ 7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

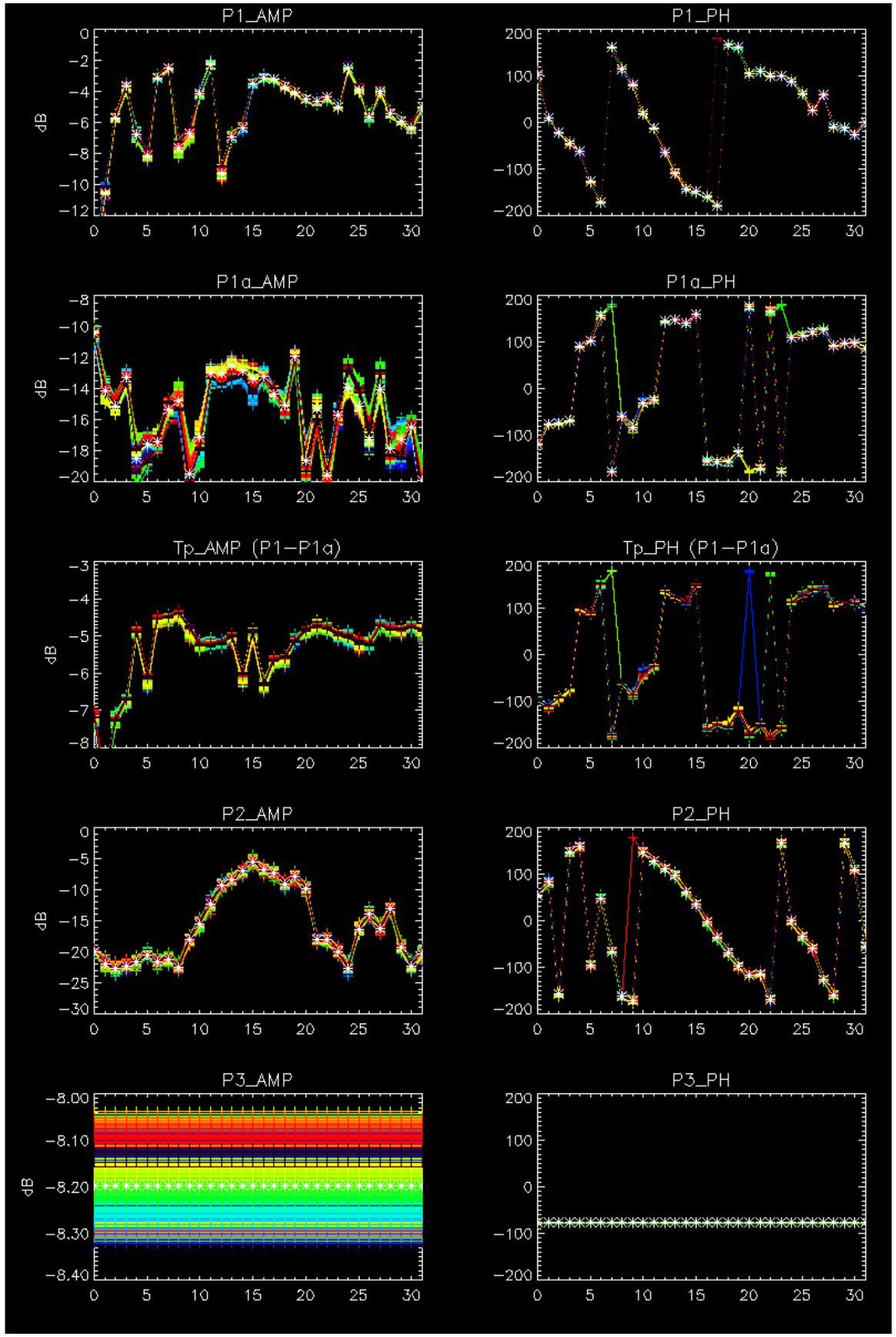

Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
−22
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30


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

No anomalies observed on available browse products

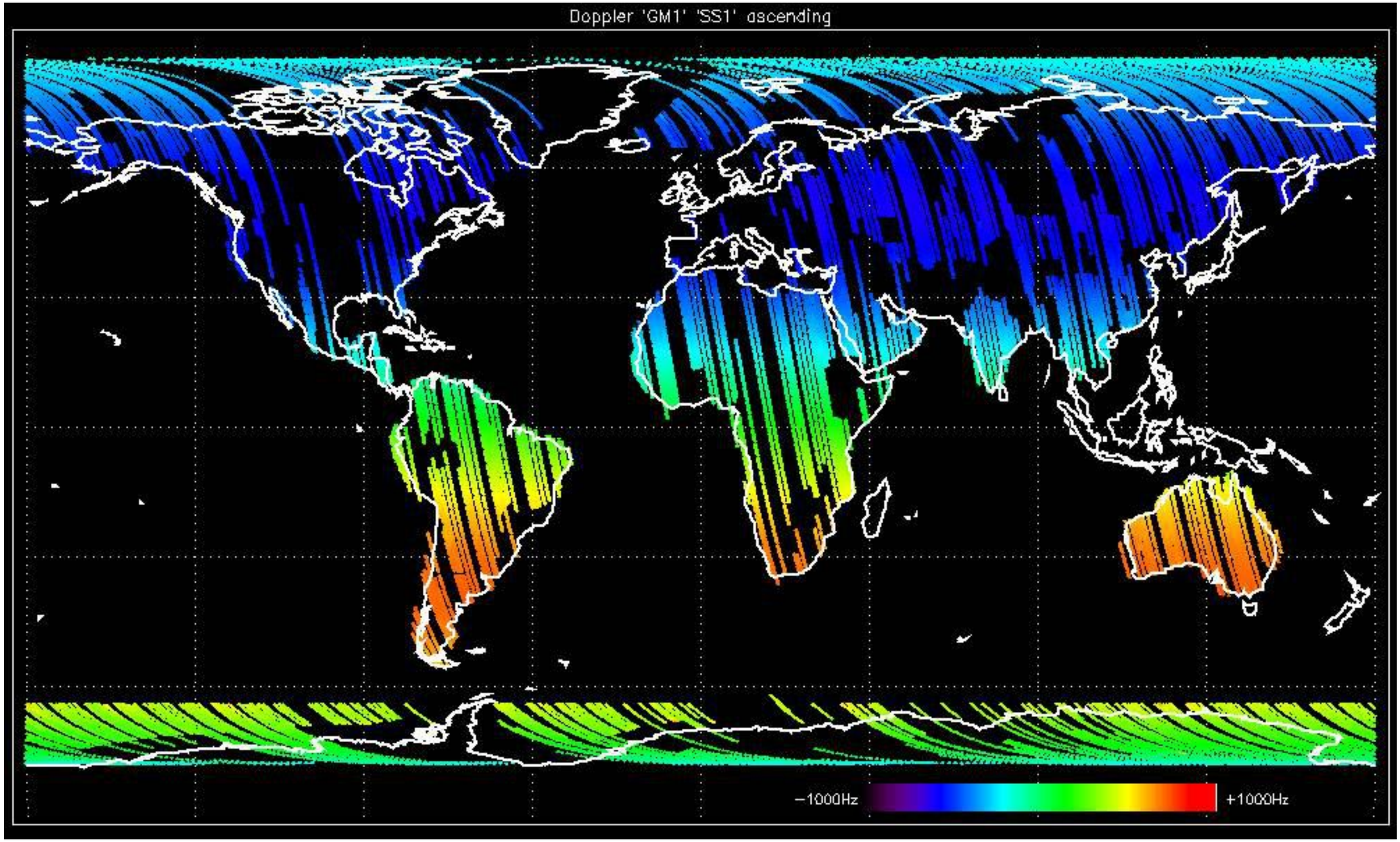
No anomalies observed.

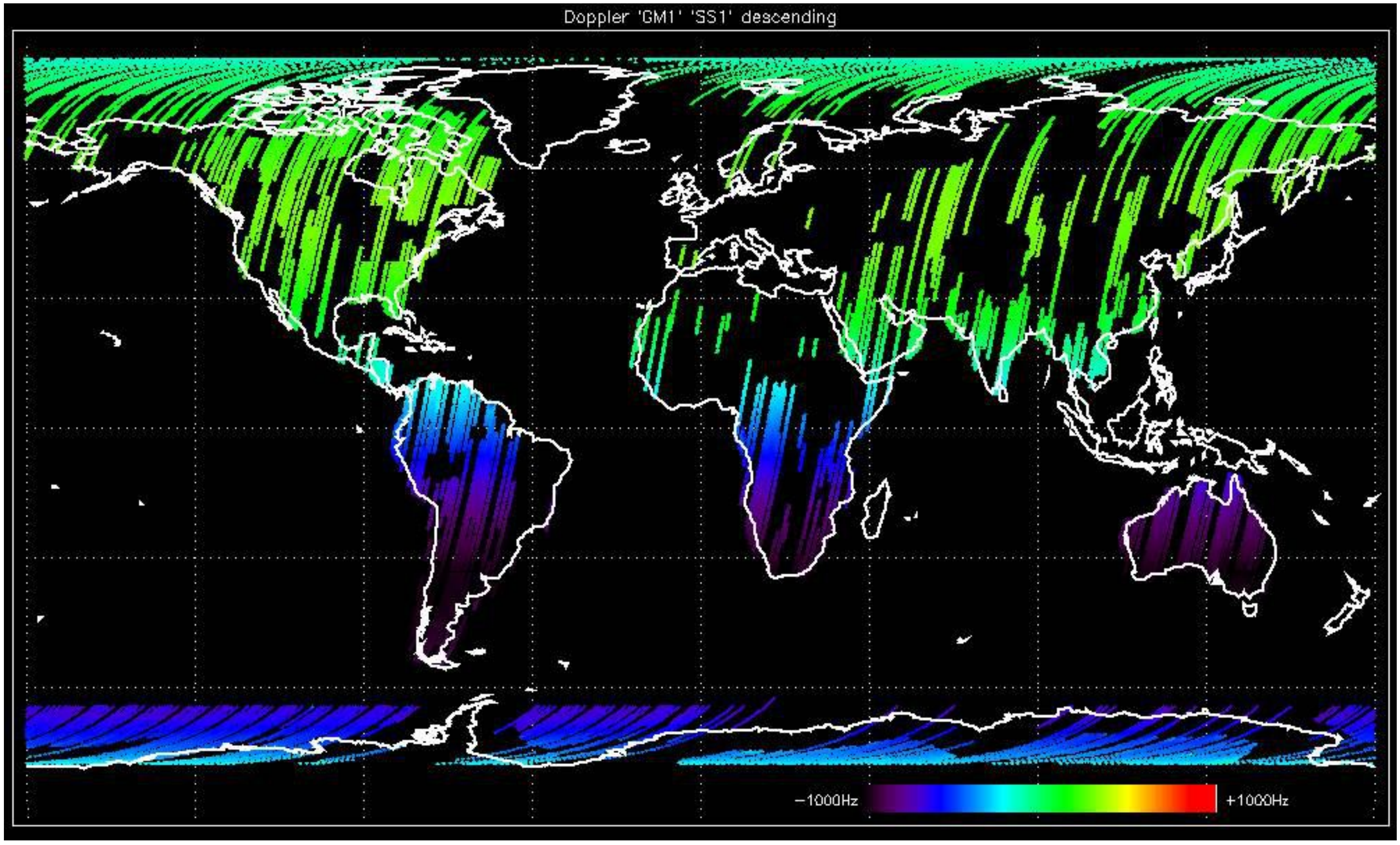

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

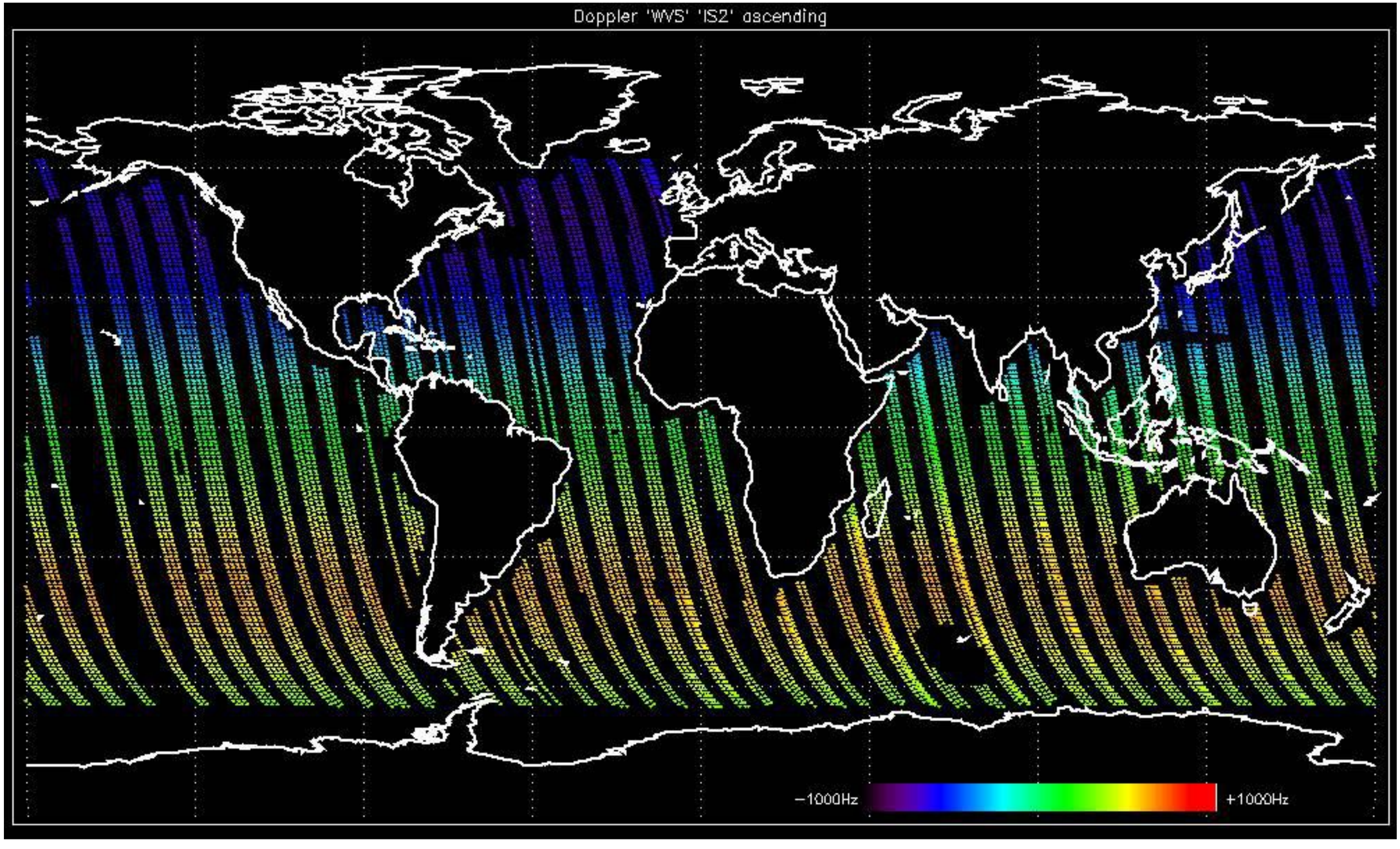

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

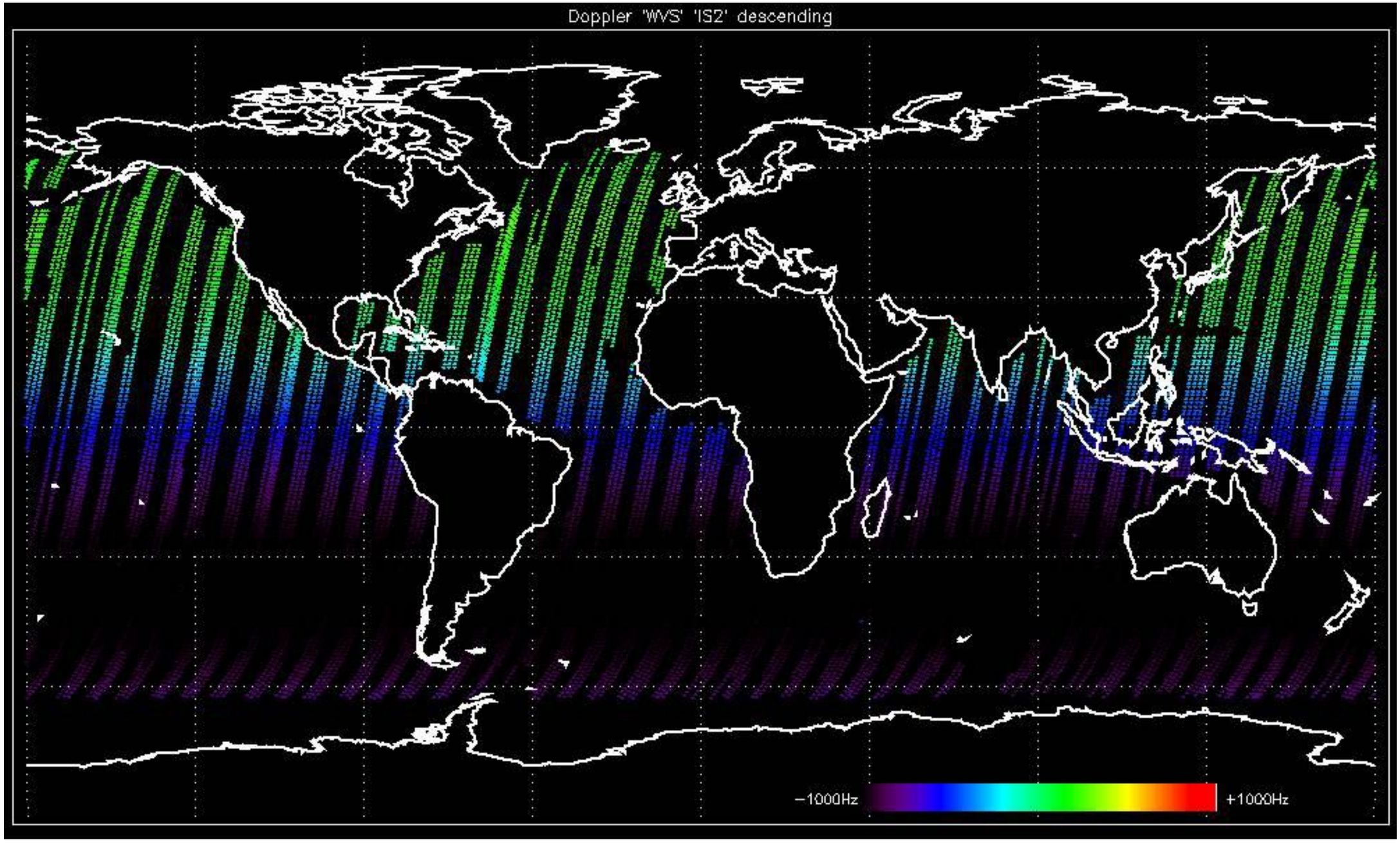
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

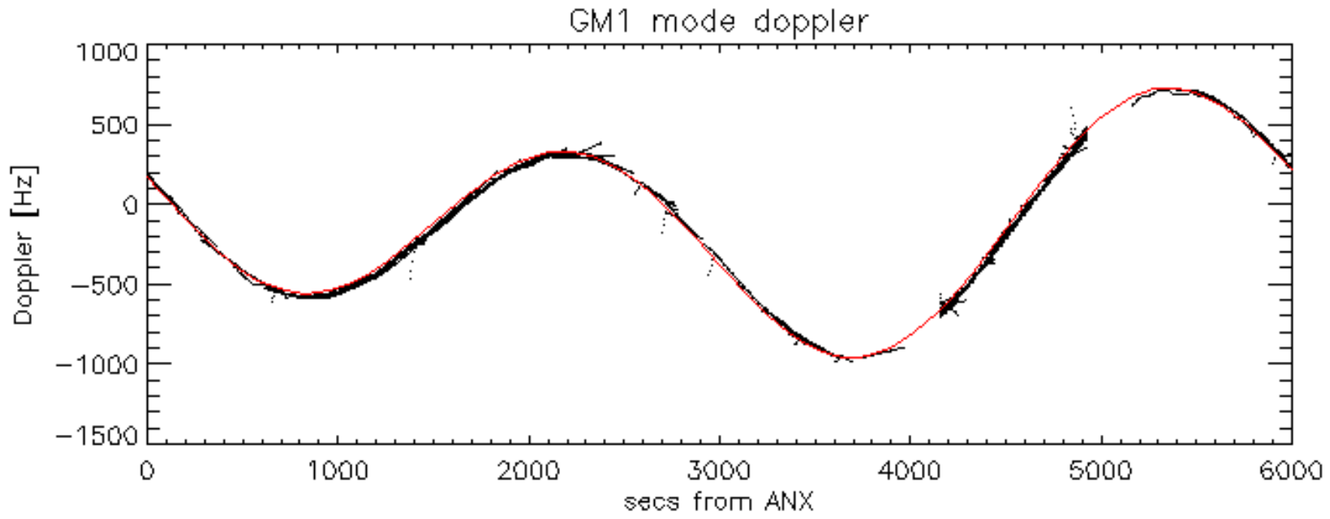
Preliminary report.The data is not yet controled

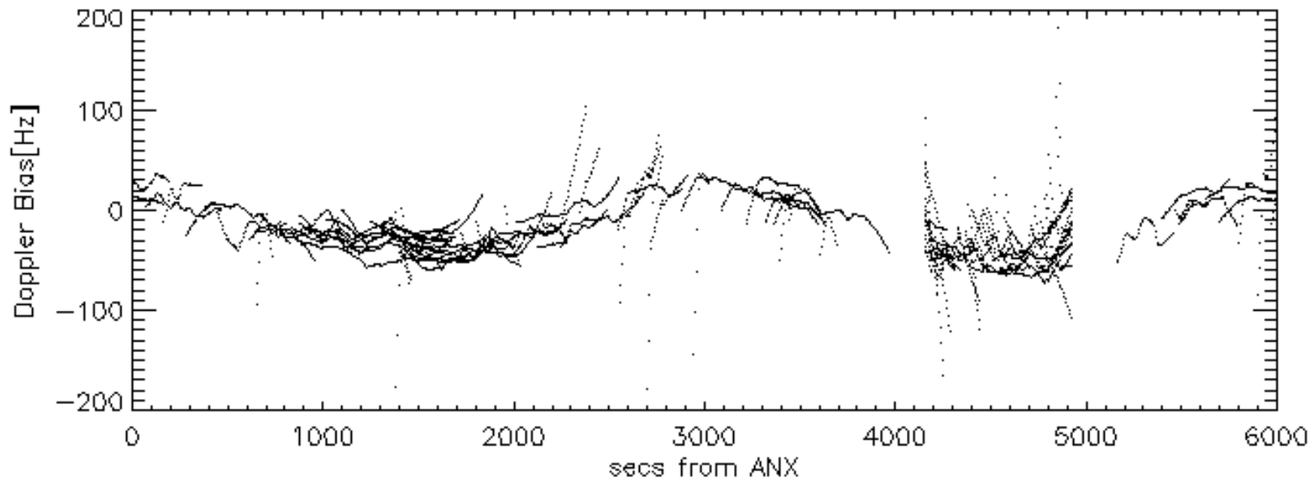

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

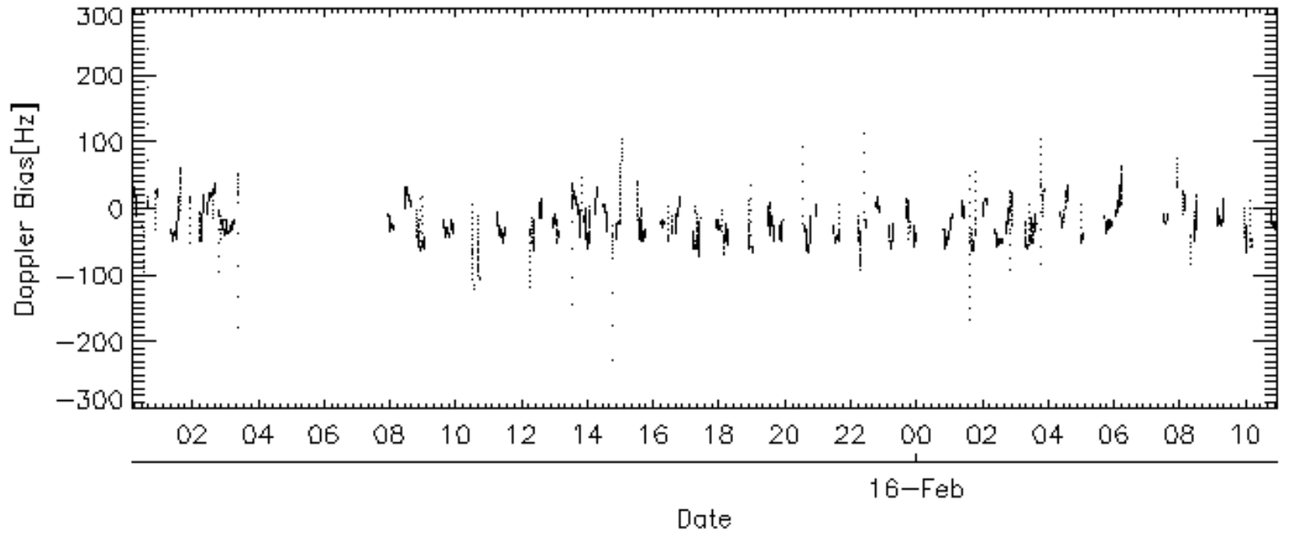

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

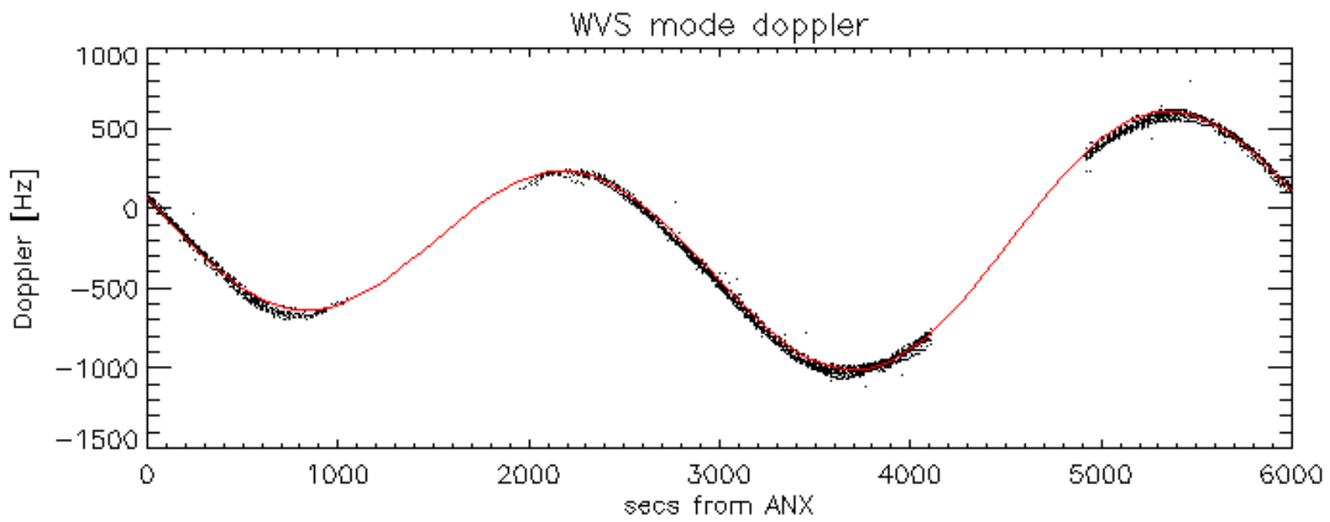

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

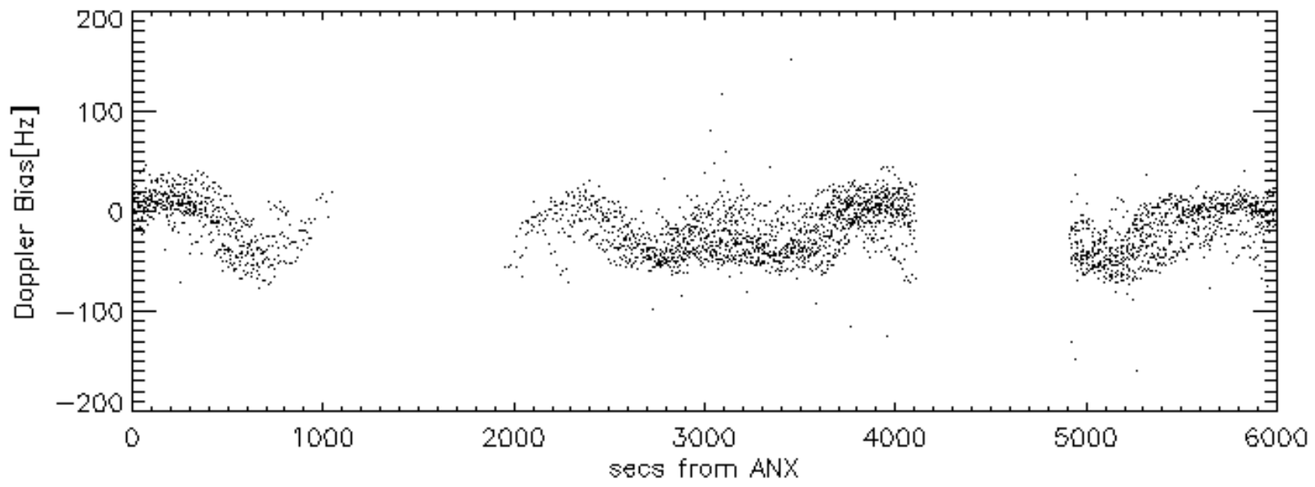

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

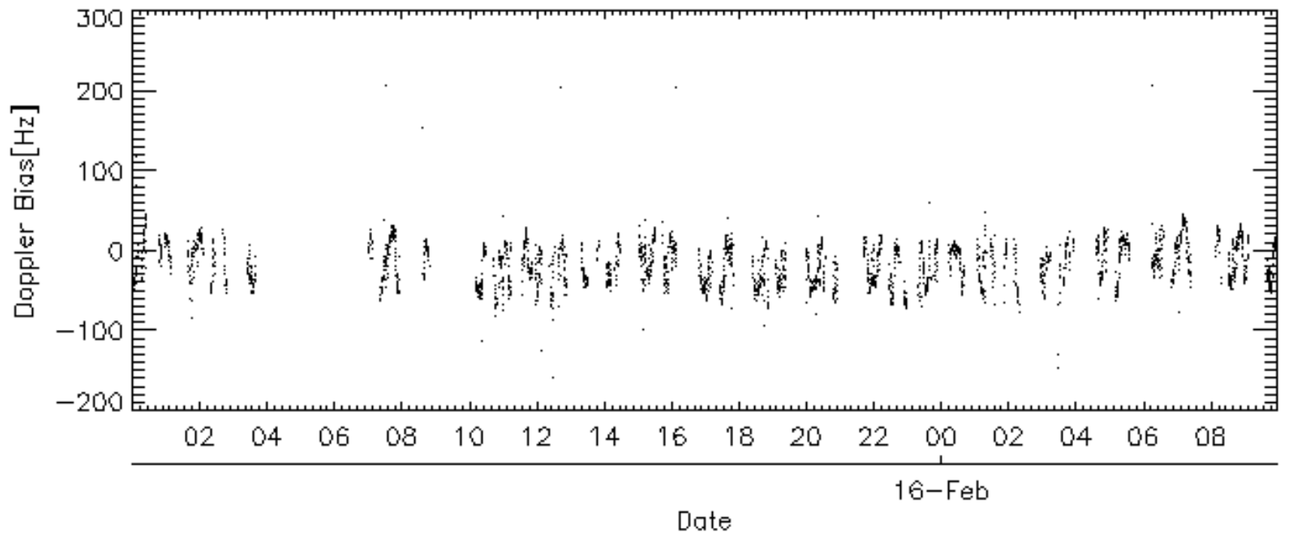

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

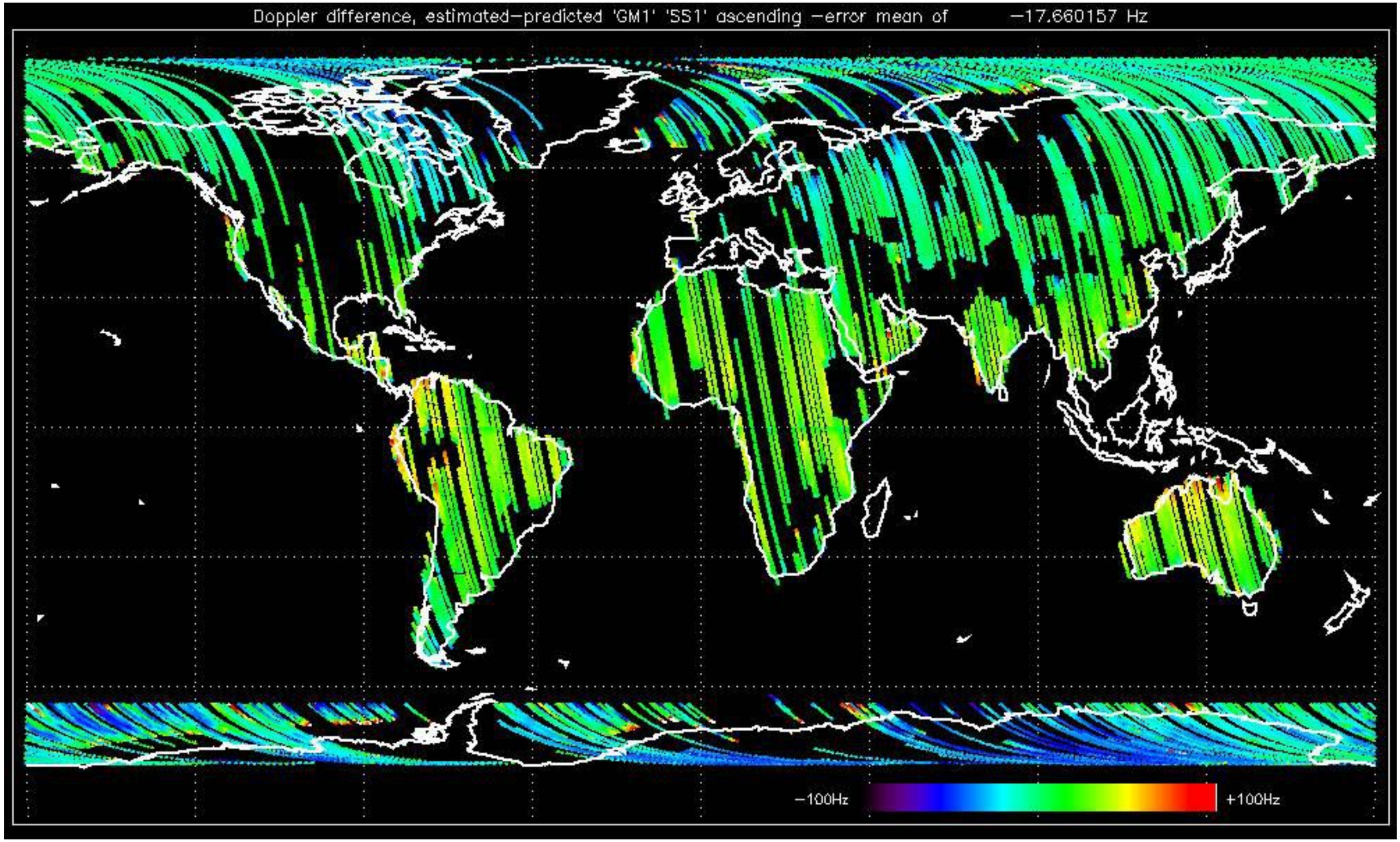

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

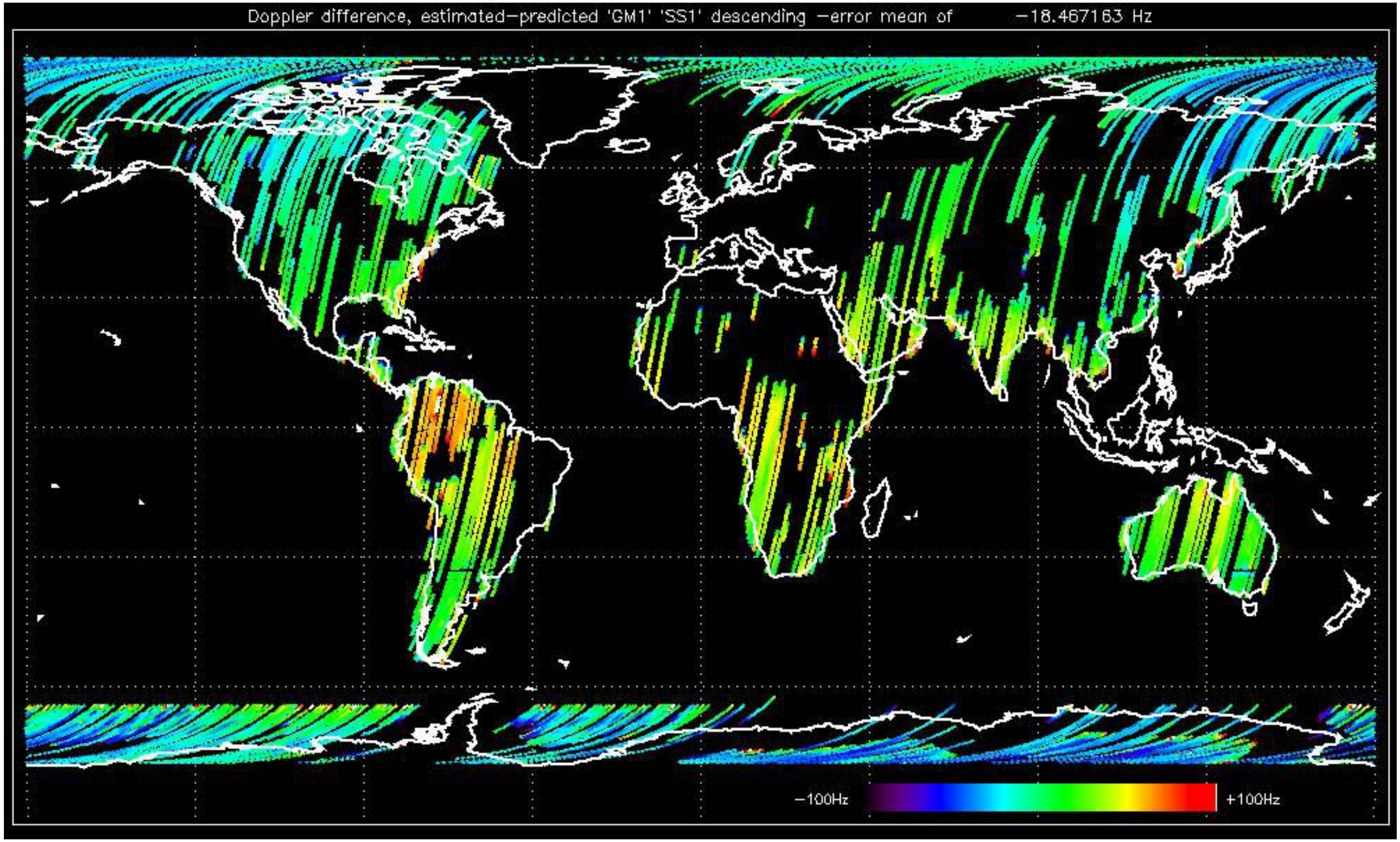

Doppler Bias[Hz]
300
200
100
0
−100
−200
−300
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
10
16−Feb
Date

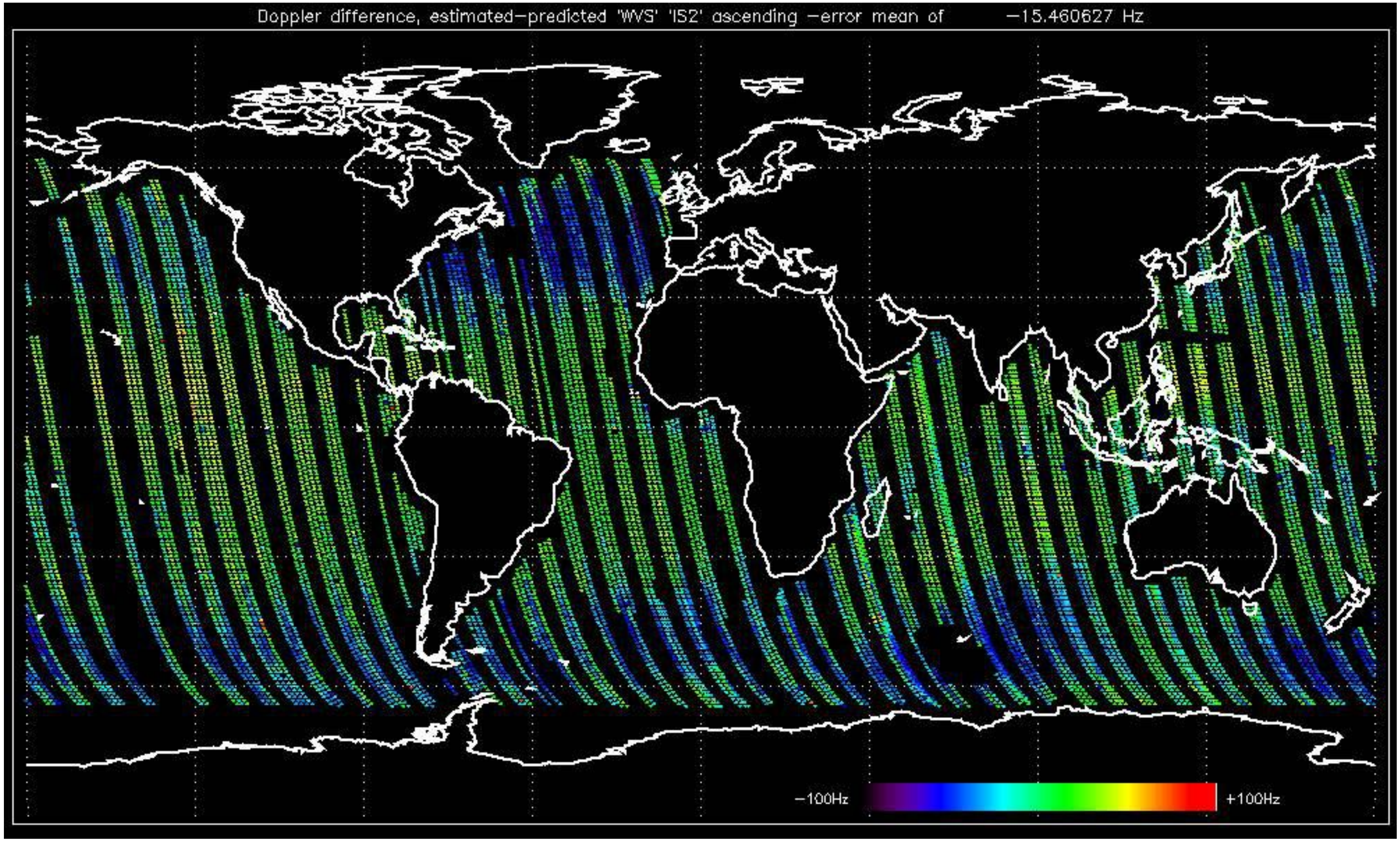

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

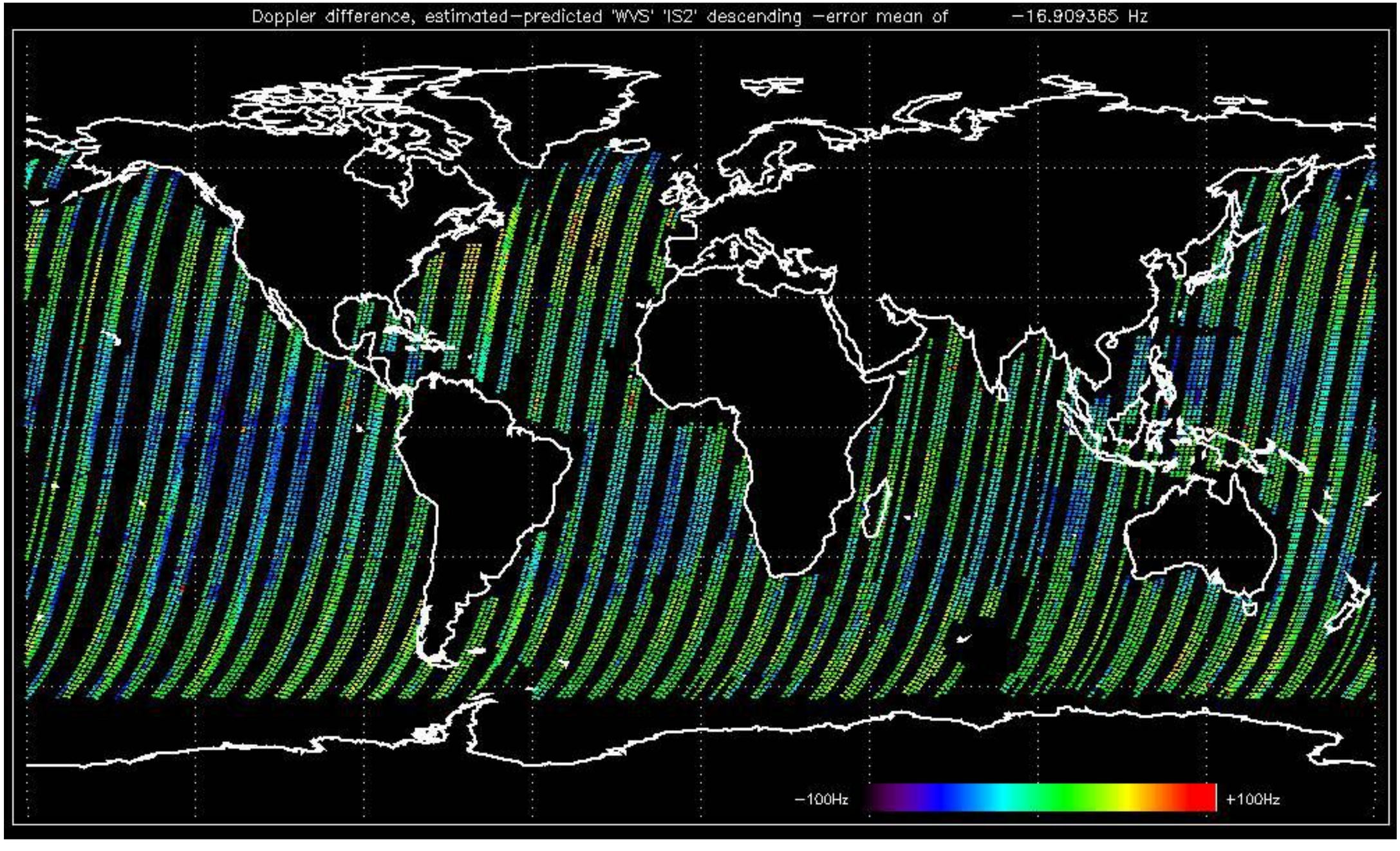

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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
16−Feb
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −17.660157 Hz
−100Hz
+100Hz

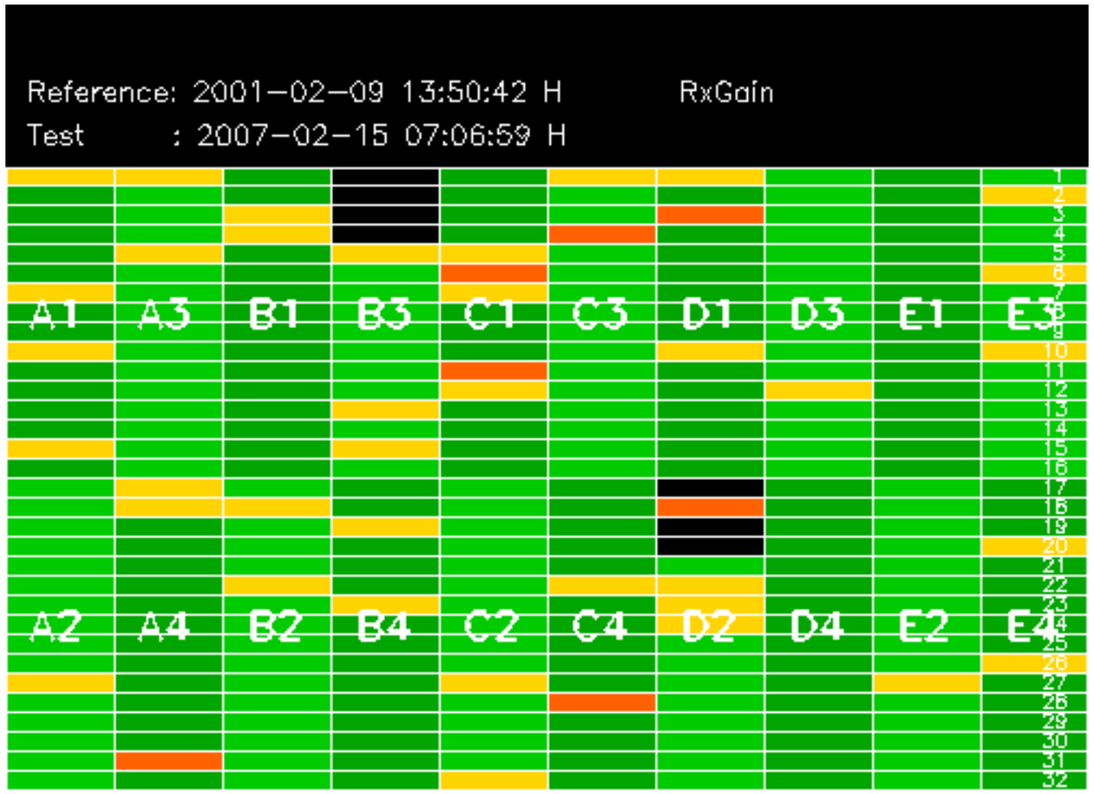

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −18.467163 Hz
−100Hz
+100Hz

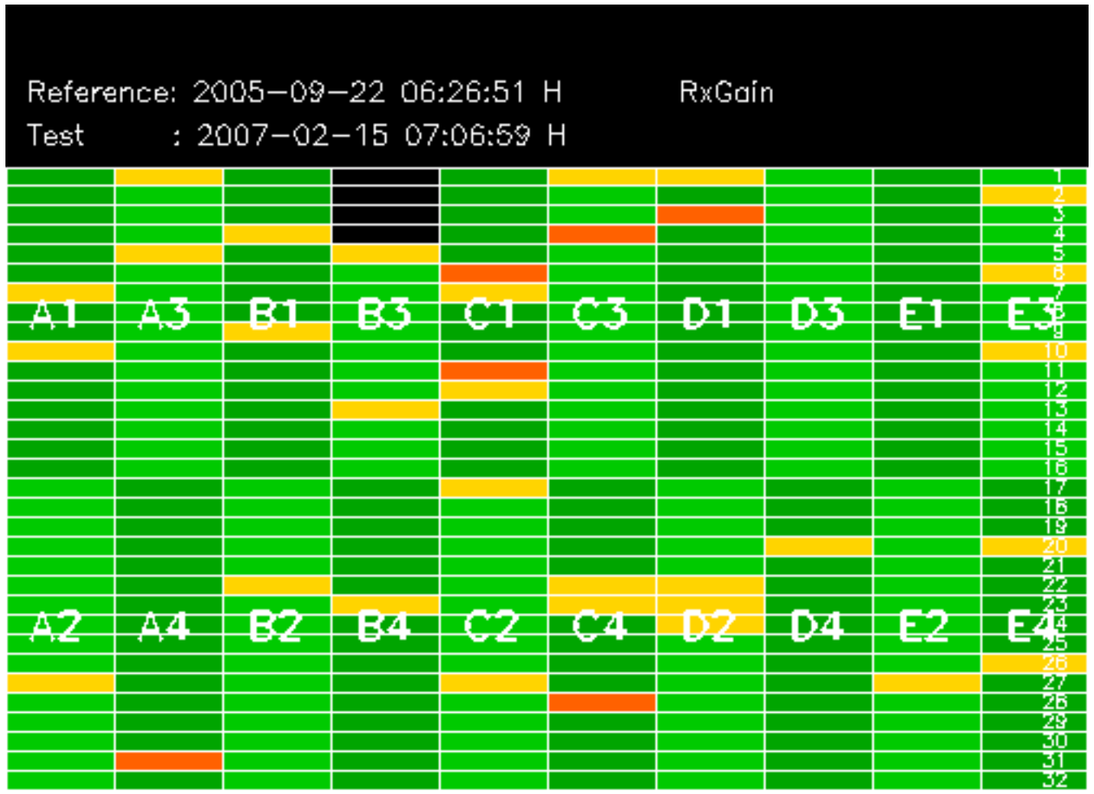

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −15.460627 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −16.909365 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2007-02-15 07:06:59 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 : 2007-02-15 07:06:59 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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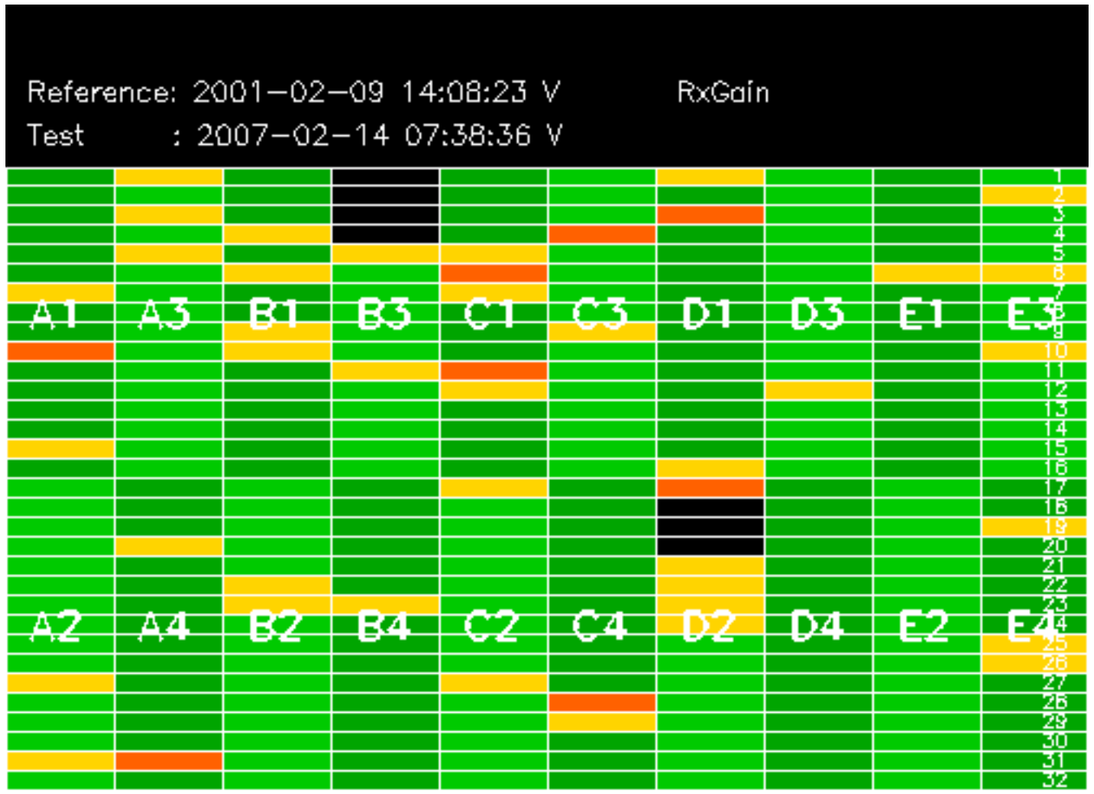
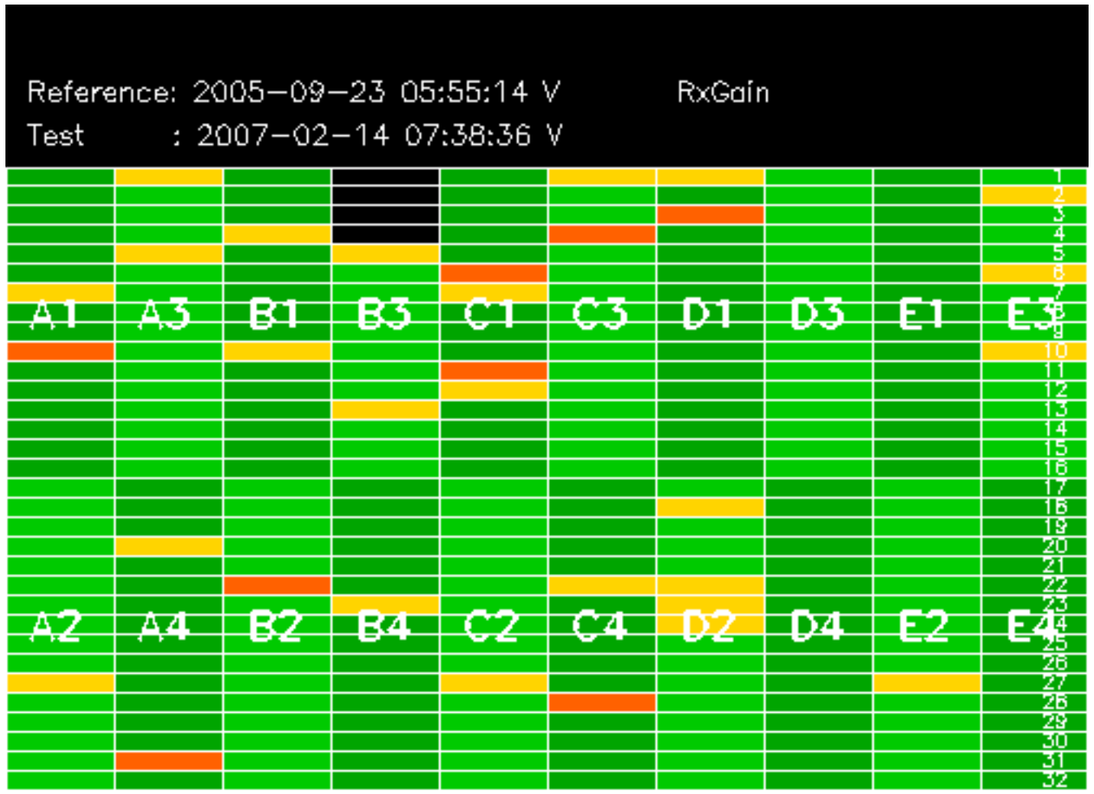

Reference: 2001-02-09 14:08:23 V
RxGain
Test : 2007-02-14 07:38:36 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-02-14 07:38:36 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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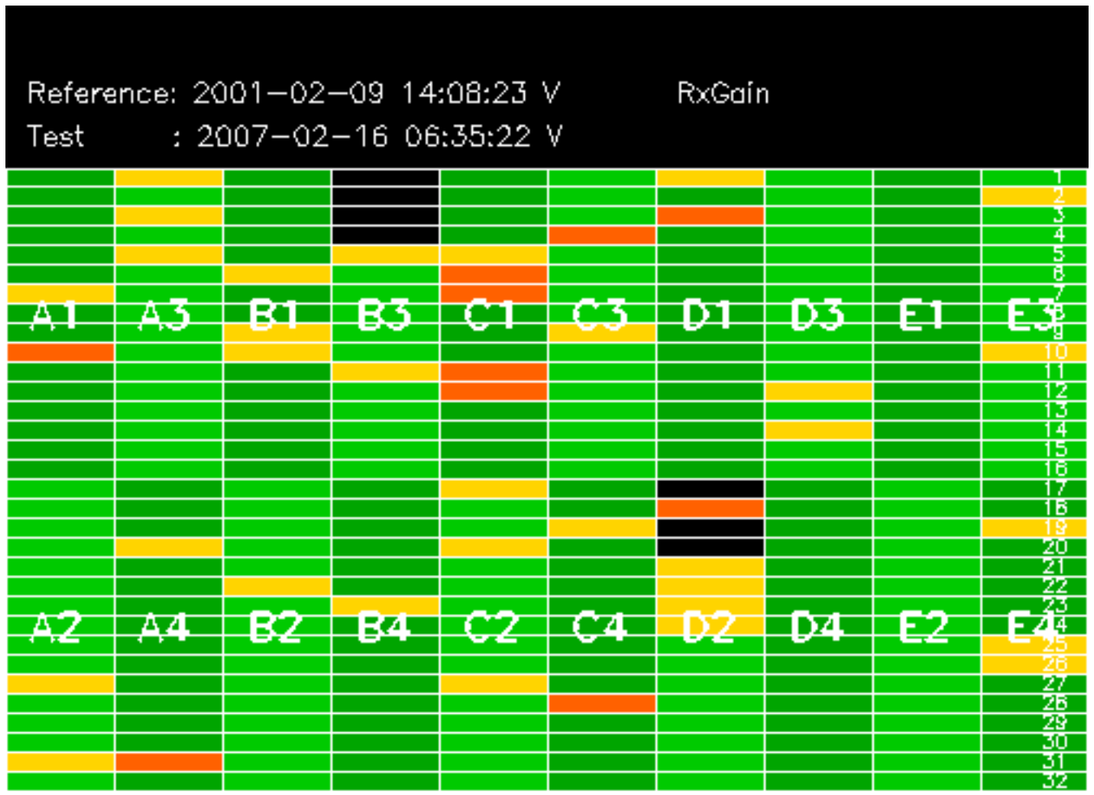
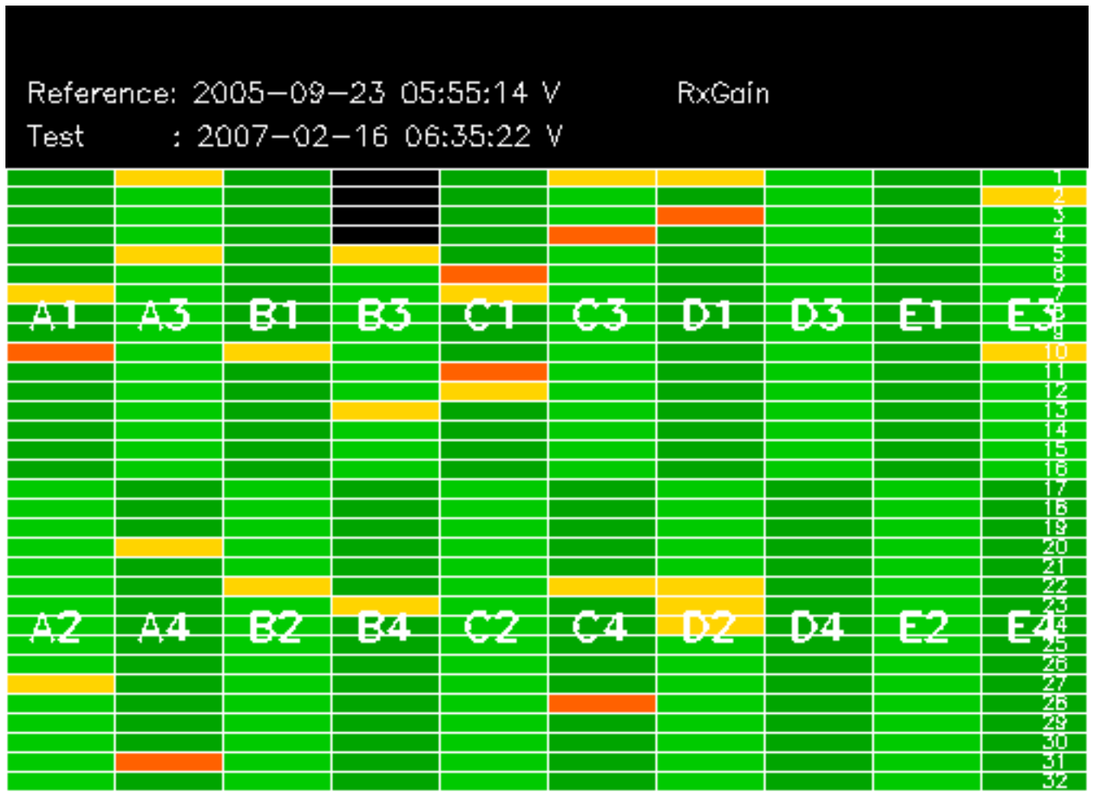
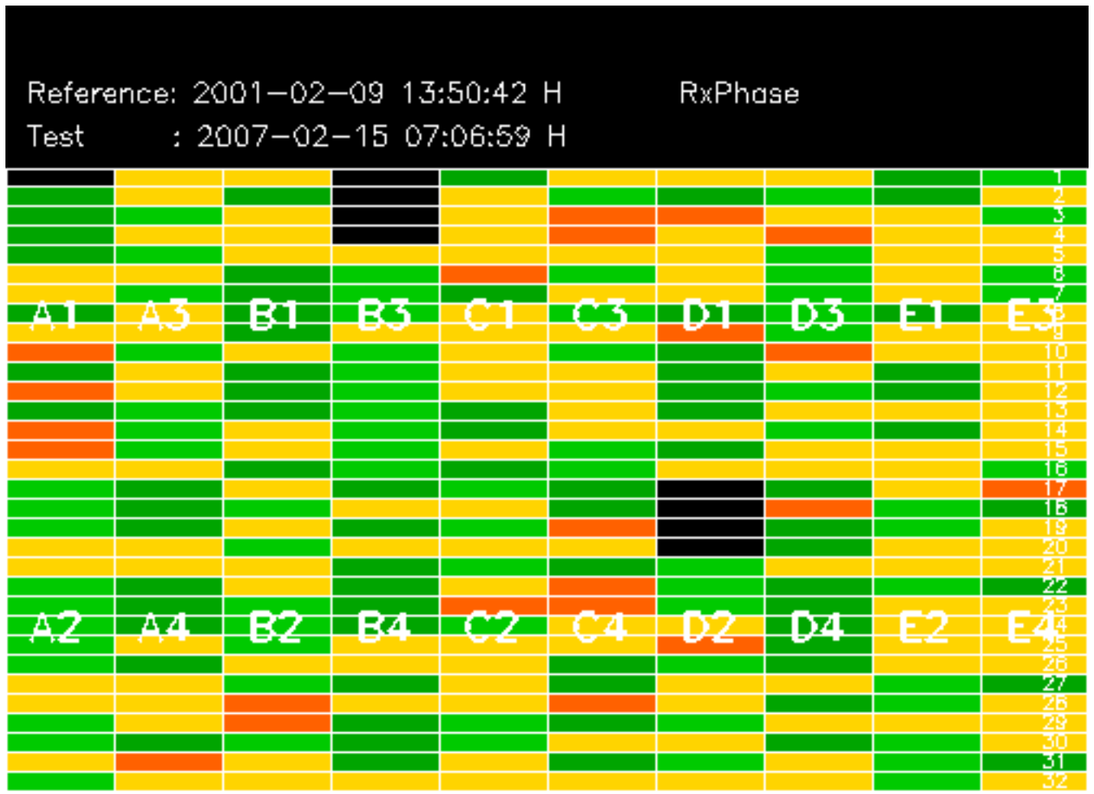
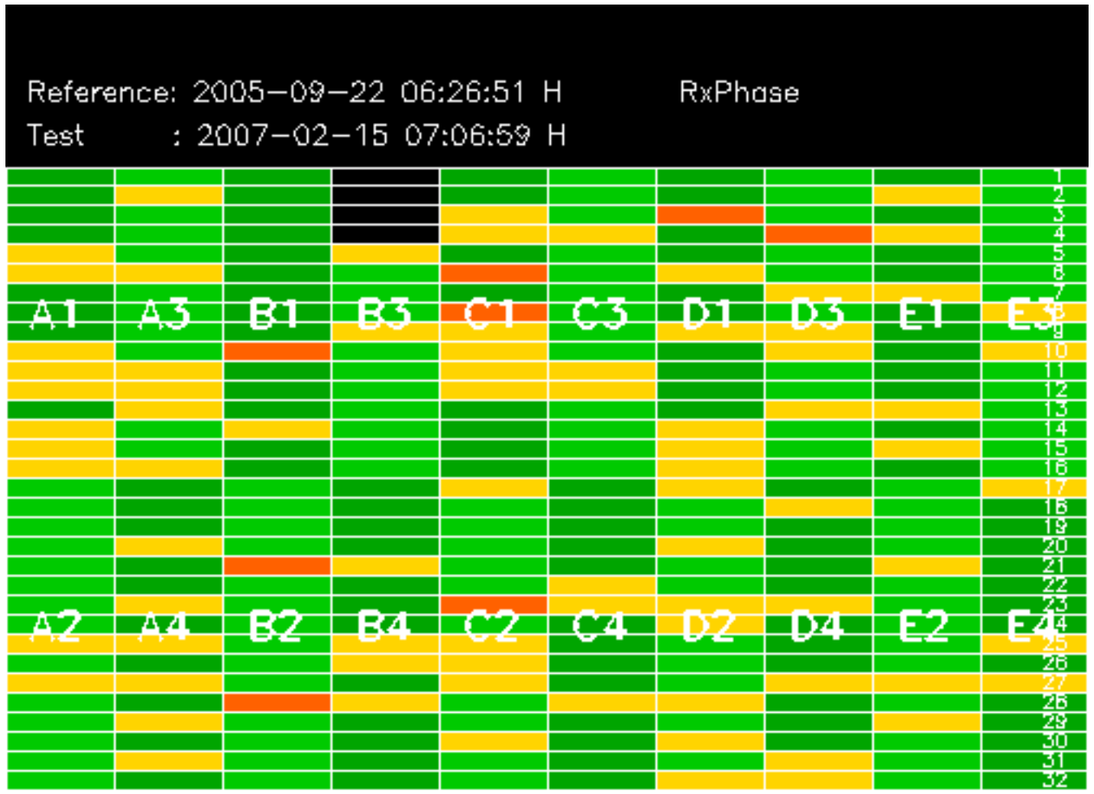
32


Reference: 2001-02-09 14:08:23 V
RxGain
Test : 2007-02-16 06:35:22 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-02-16 06:35:22 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 : 2007-02-15 07:06:59 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
RxPhase
Test : 2007-02-15 07:06:59 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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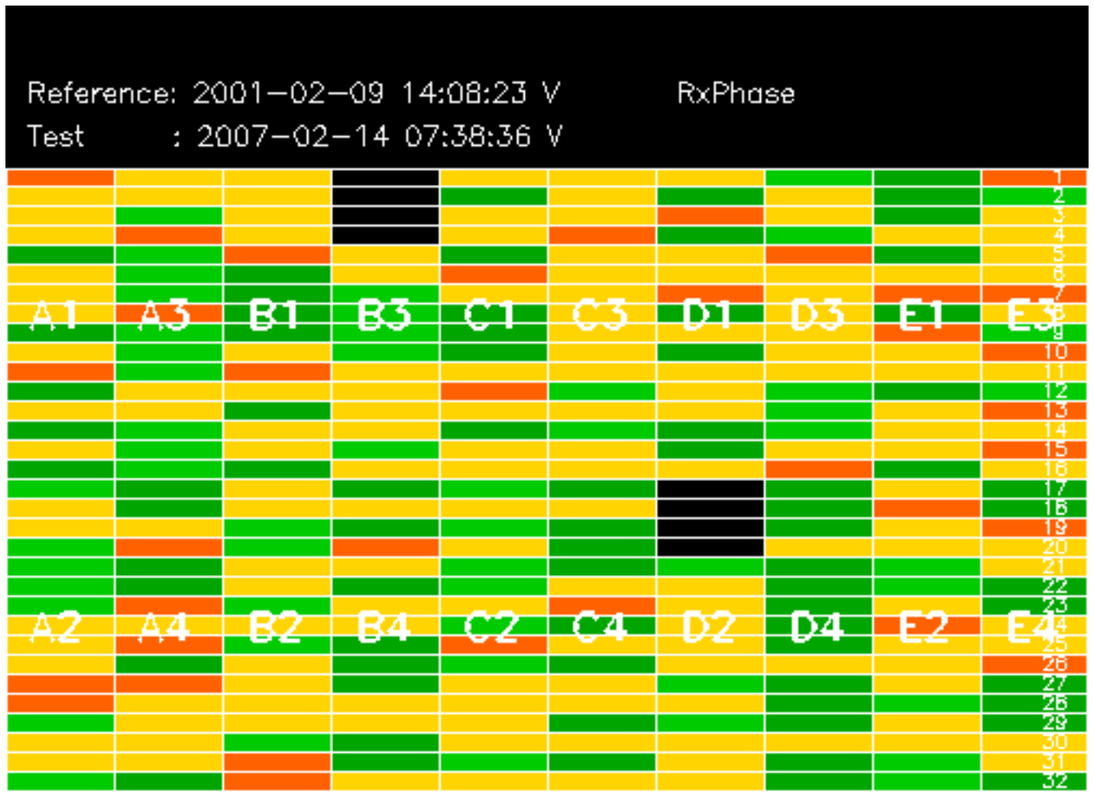
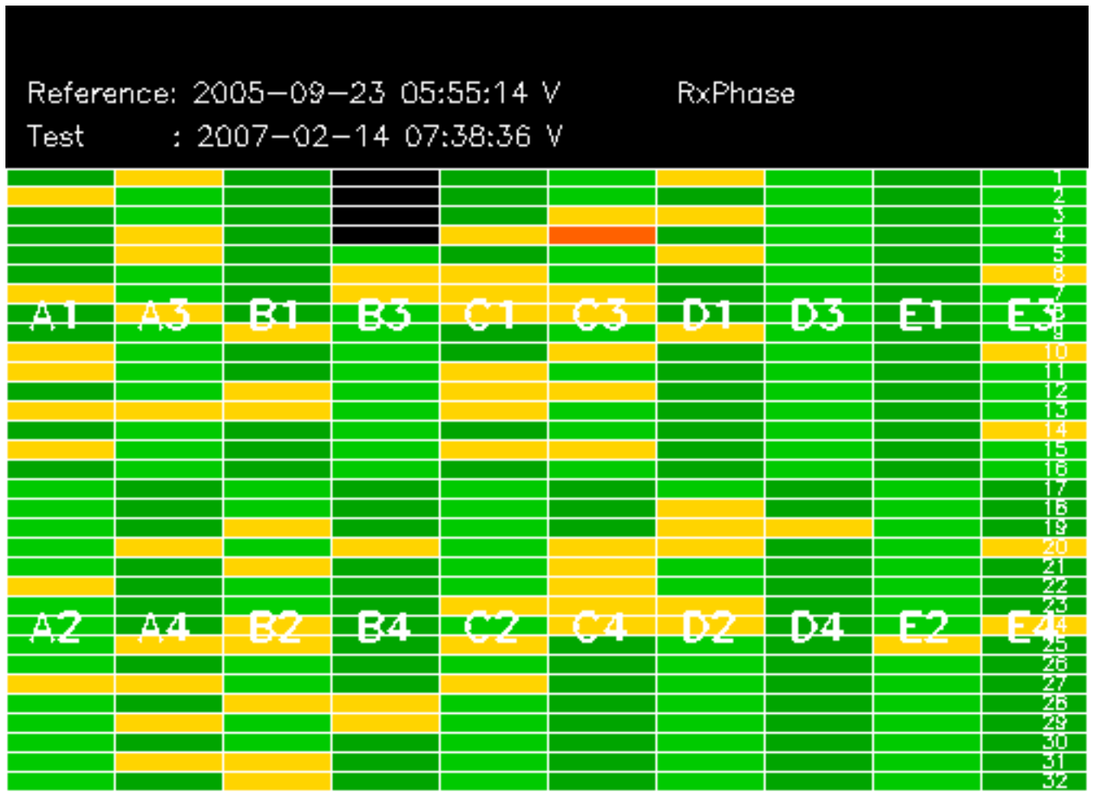

Reference: 2001-02-09 14:08:23 V
Test : 2007-02-14 07:38:36 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-02-14 07:38:36 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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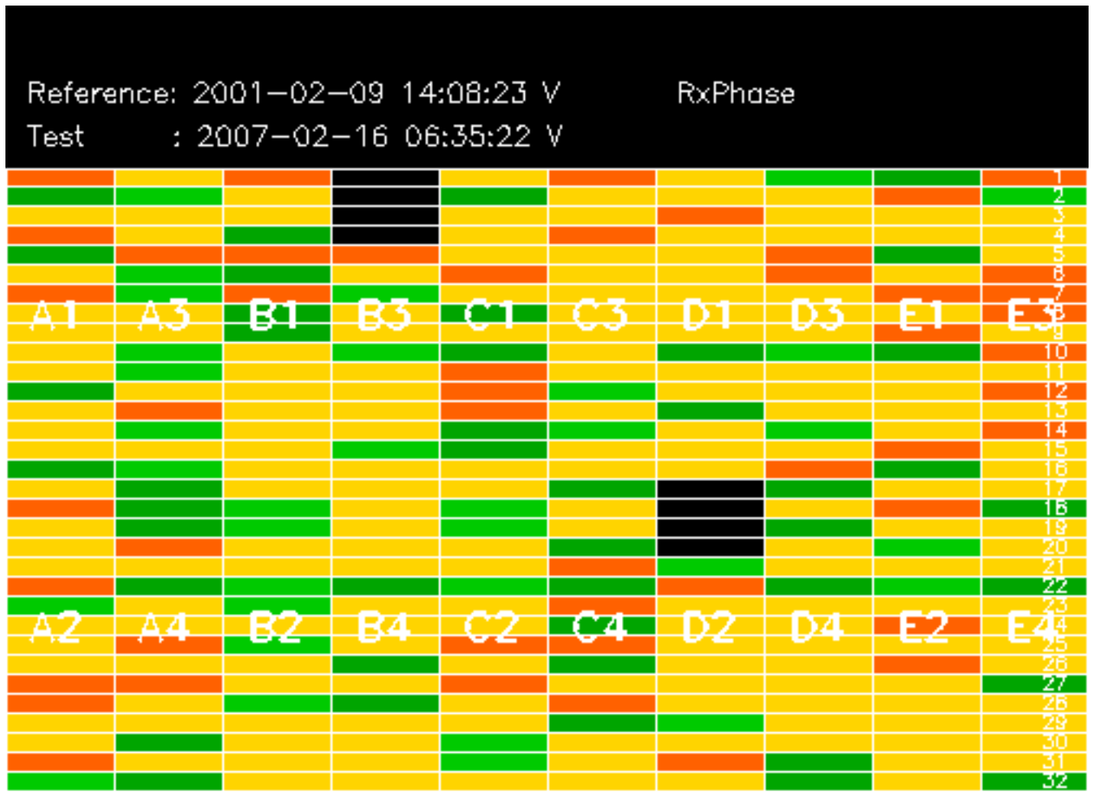
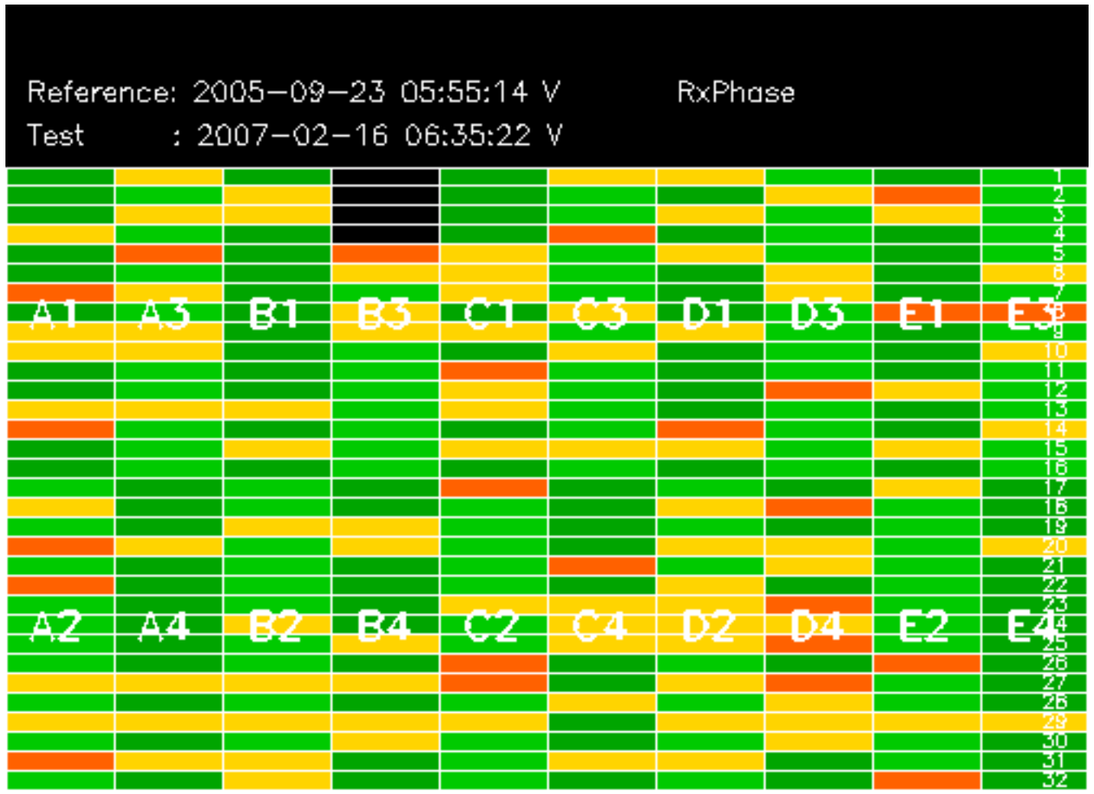

Reference: 2001-02-09 14:08:23 V
Test : 2007-02-16 06:35:22 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-02-16 06:35:22 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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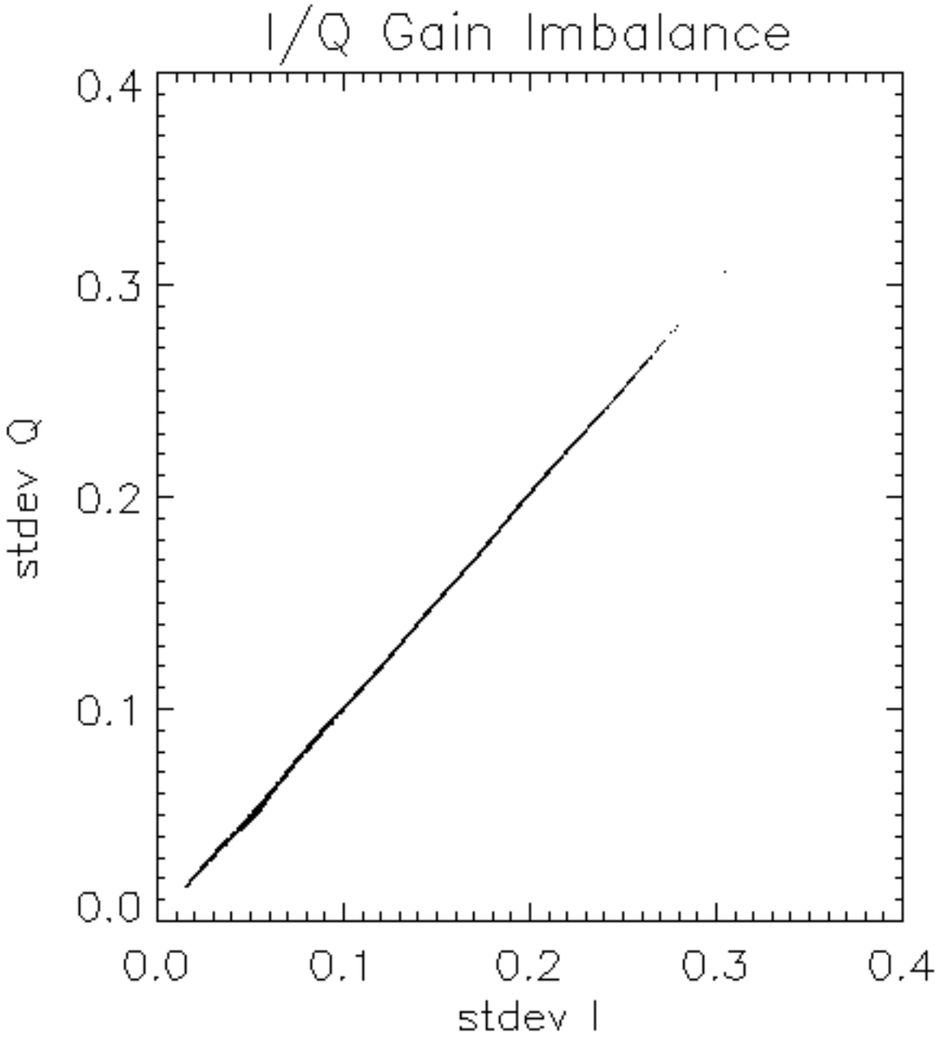
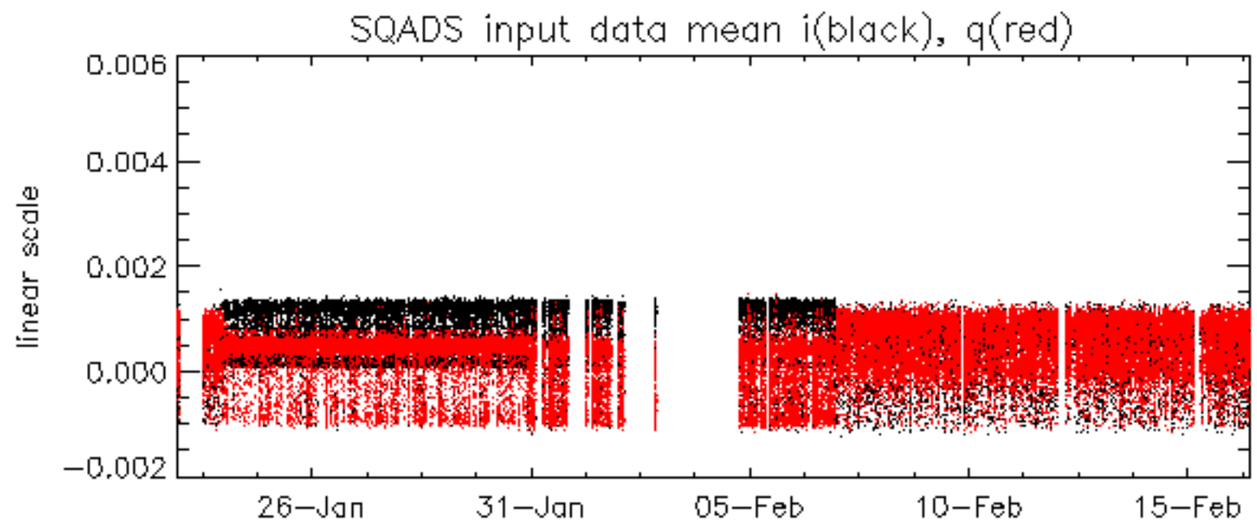
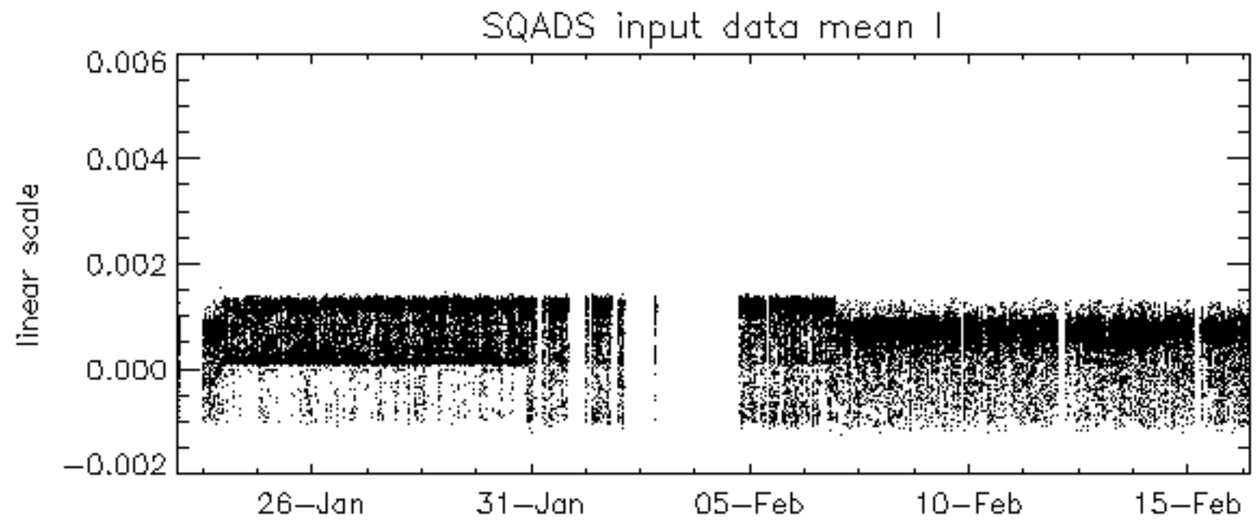
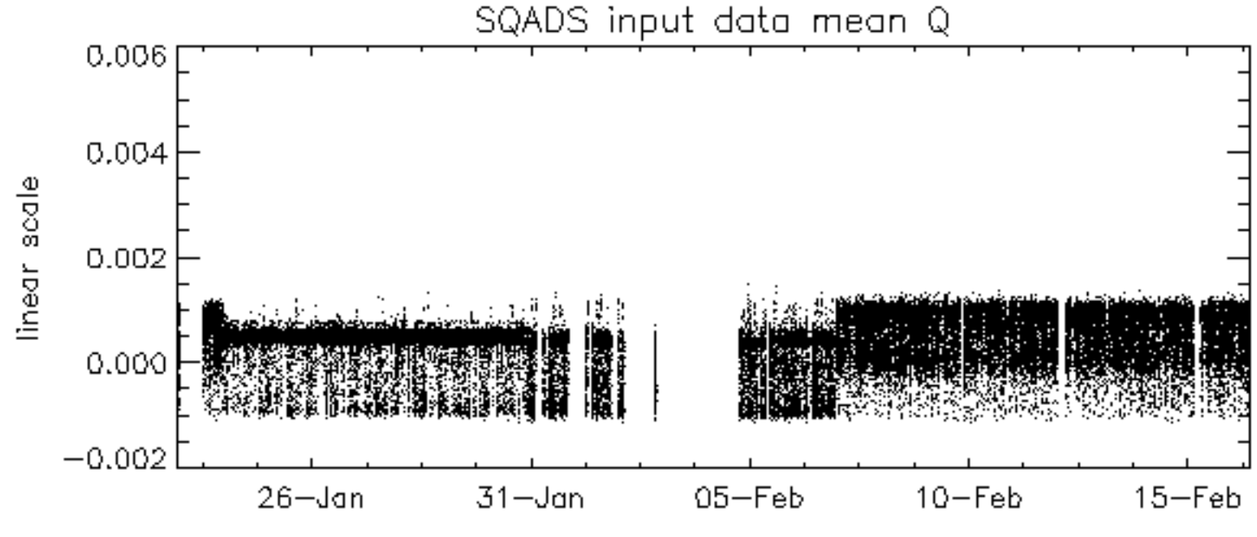
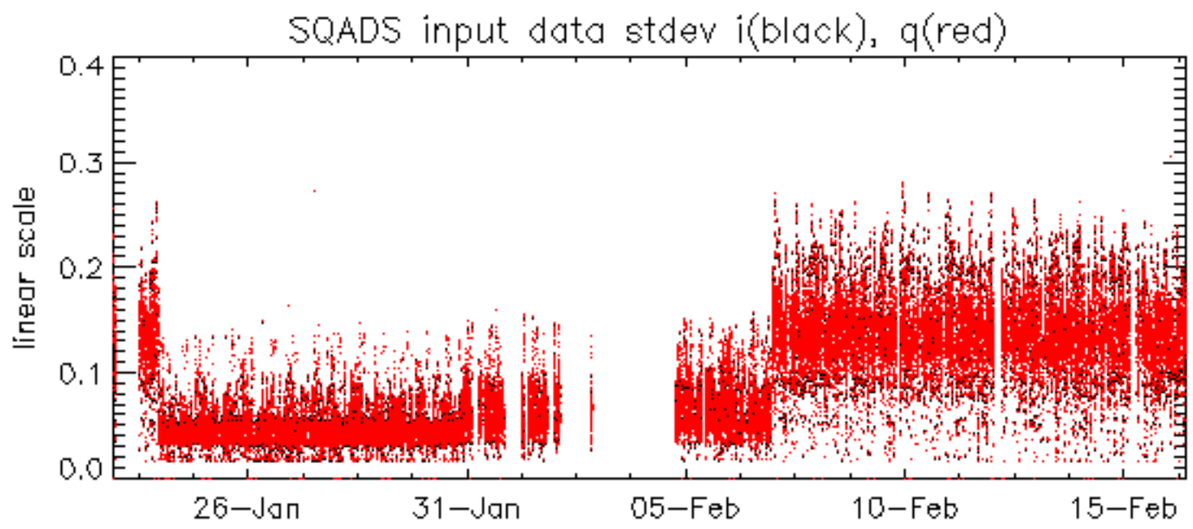
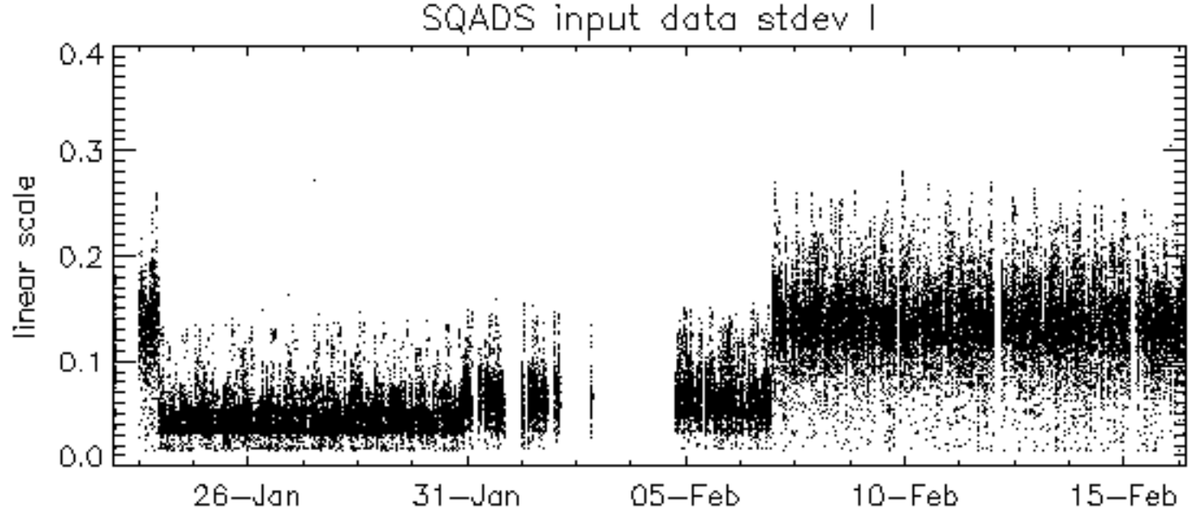

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

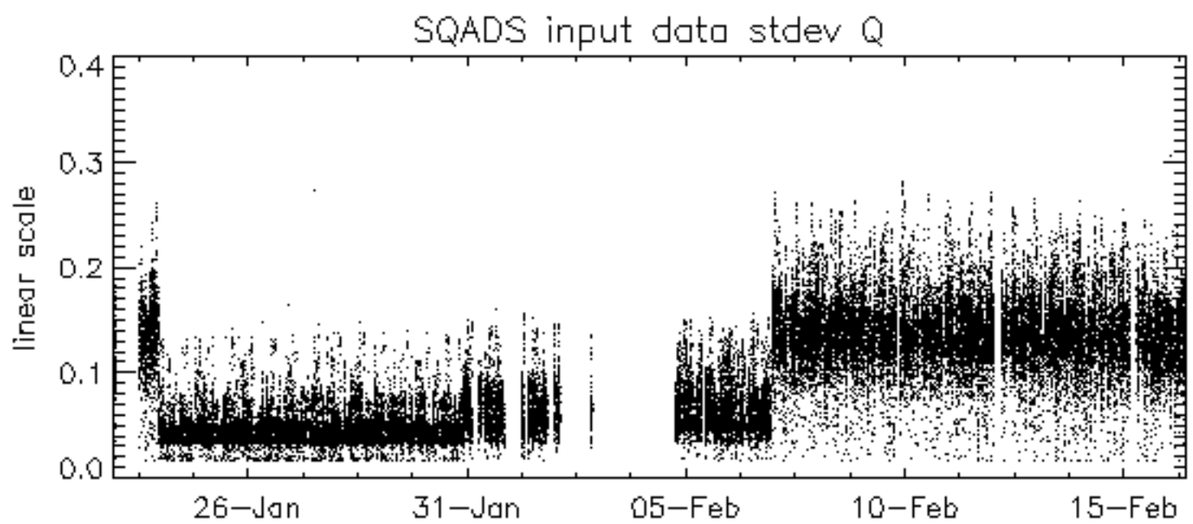

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb

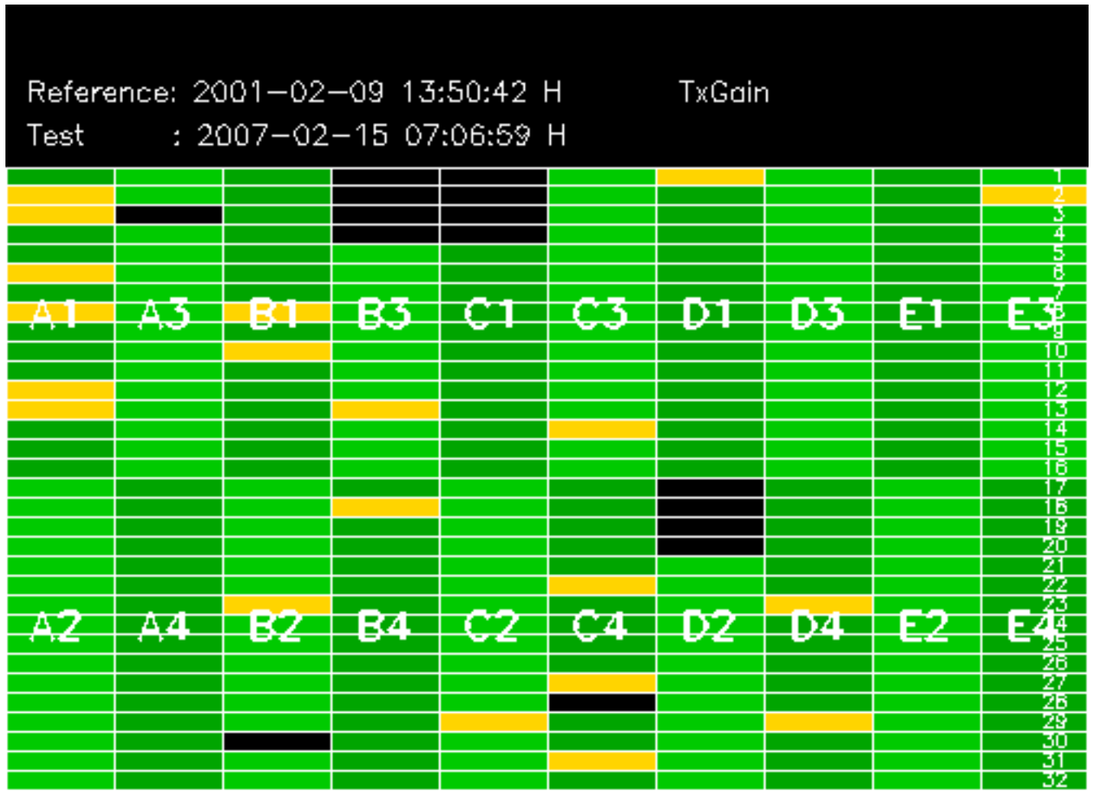

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
26–Jan
31–Jan
05–Feb
10–Feb
15–Feb


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
26–Jan
31–Jan
05–Feb
10–Feb
15–Feb


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
26–Jan
31–Jan
05–Feb
10–Feb
15–Feb


Reference: 2001-02-09 13:50:42 H
Test : 2007-02-15 07:06:59 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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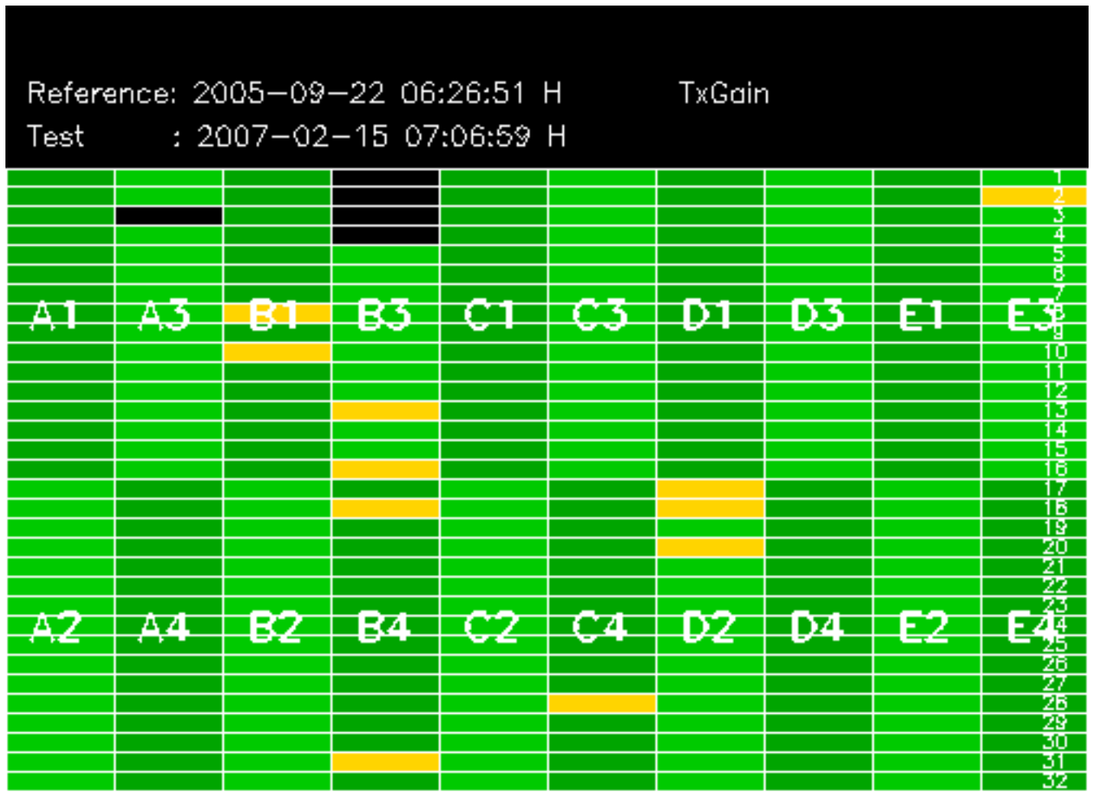
Reference: 2005-09-22 06:26:51 H
Test : 2007-02-15 07:06:59 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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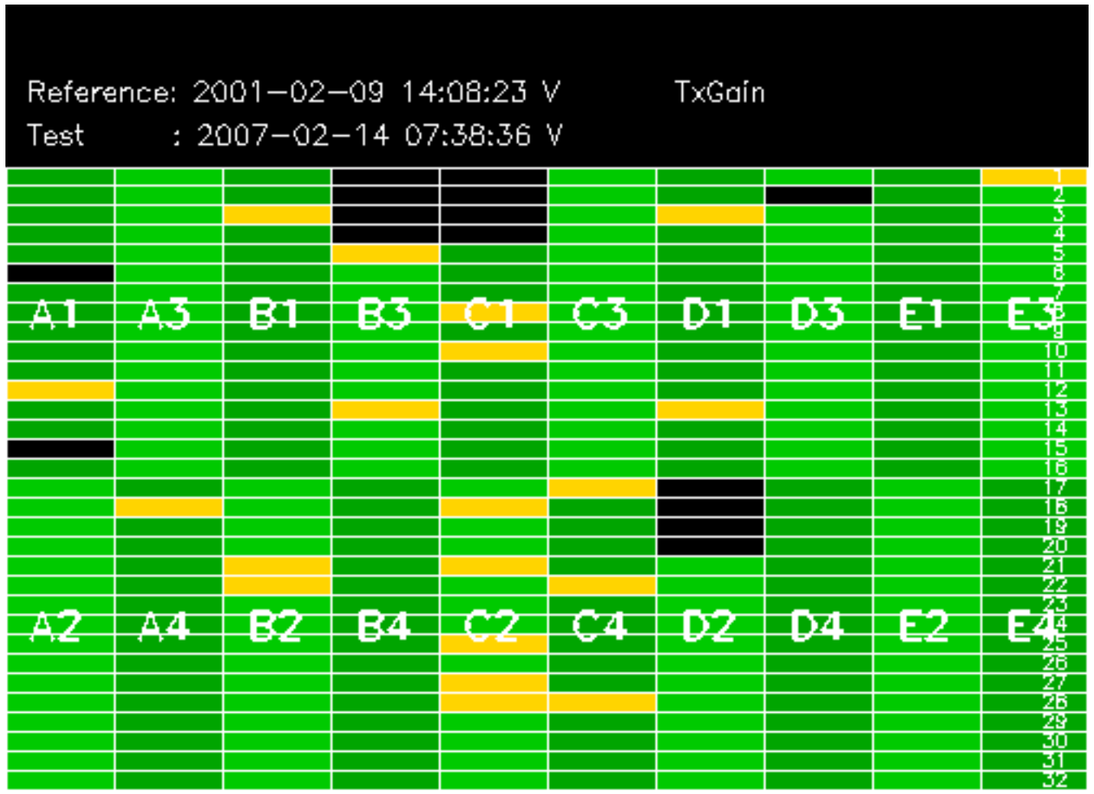
Reference: 2001-02-09 14:08:23 V
Test : 2007-02-14 07:38:36 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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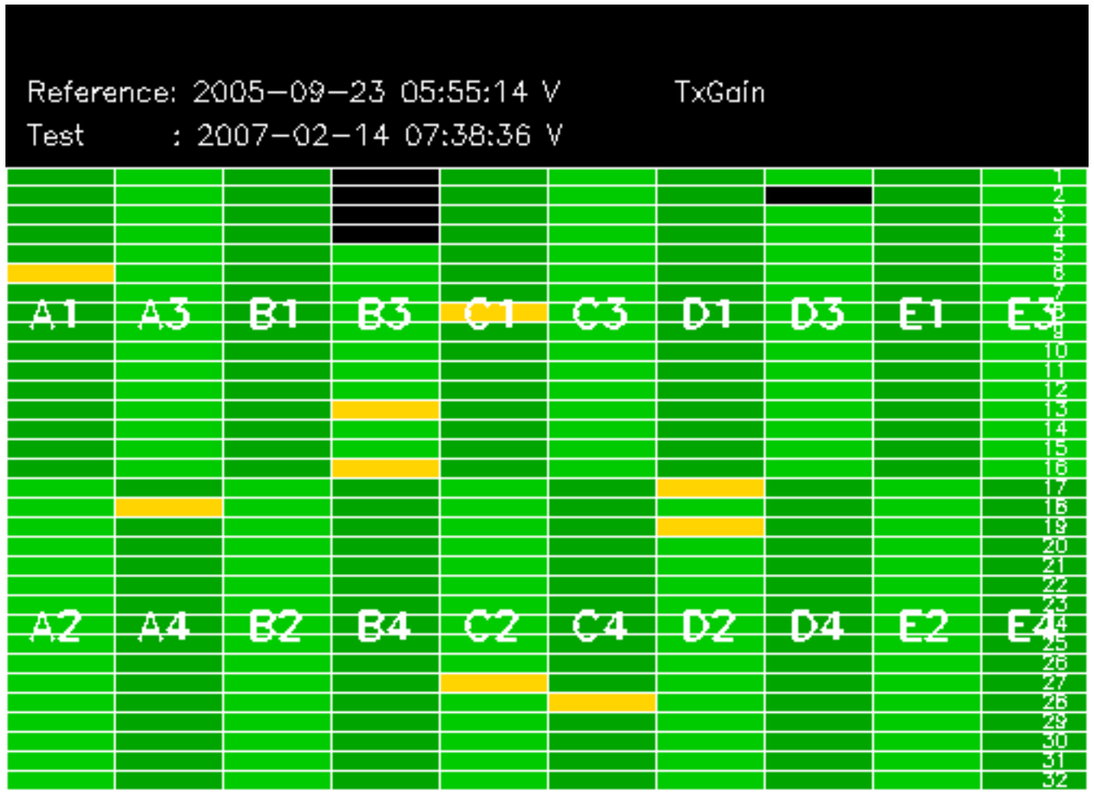
Reference: 2005-09-23 05:55:14 V
Test : 2007-02-14 07:38:36 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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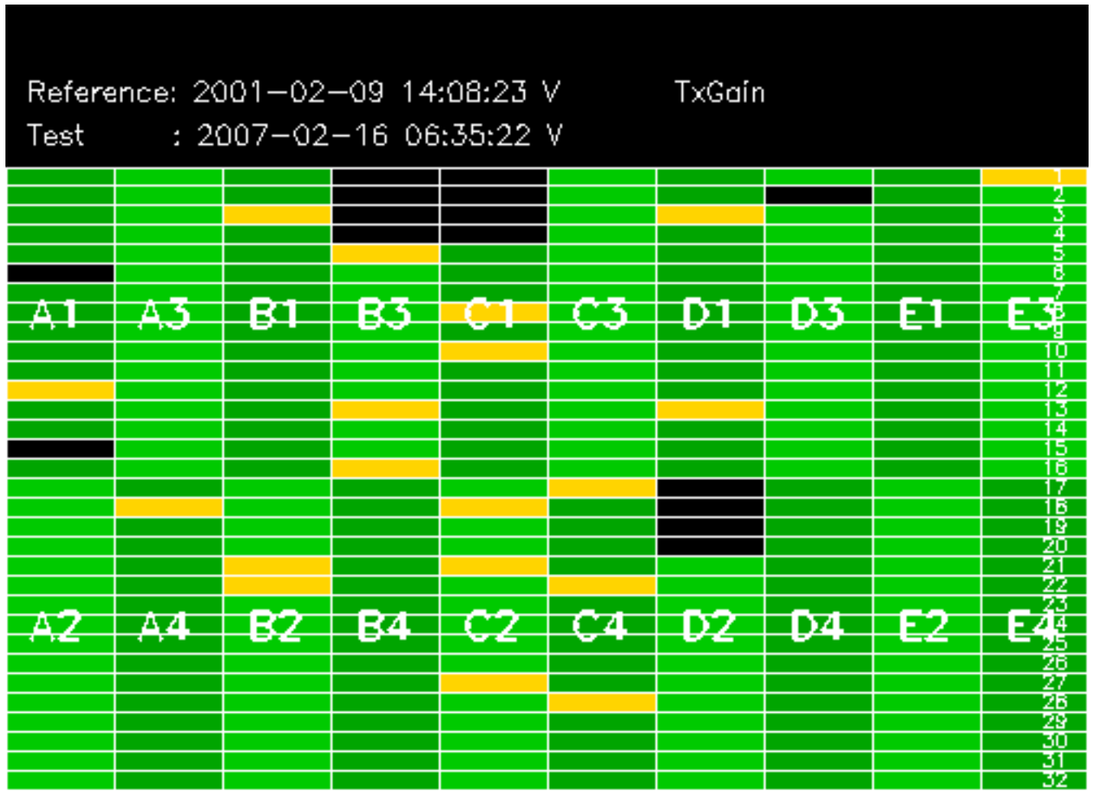
Reference: 2001-02-09 14:08:23 V
Test : 2007-02-16 06:35:22 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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E4
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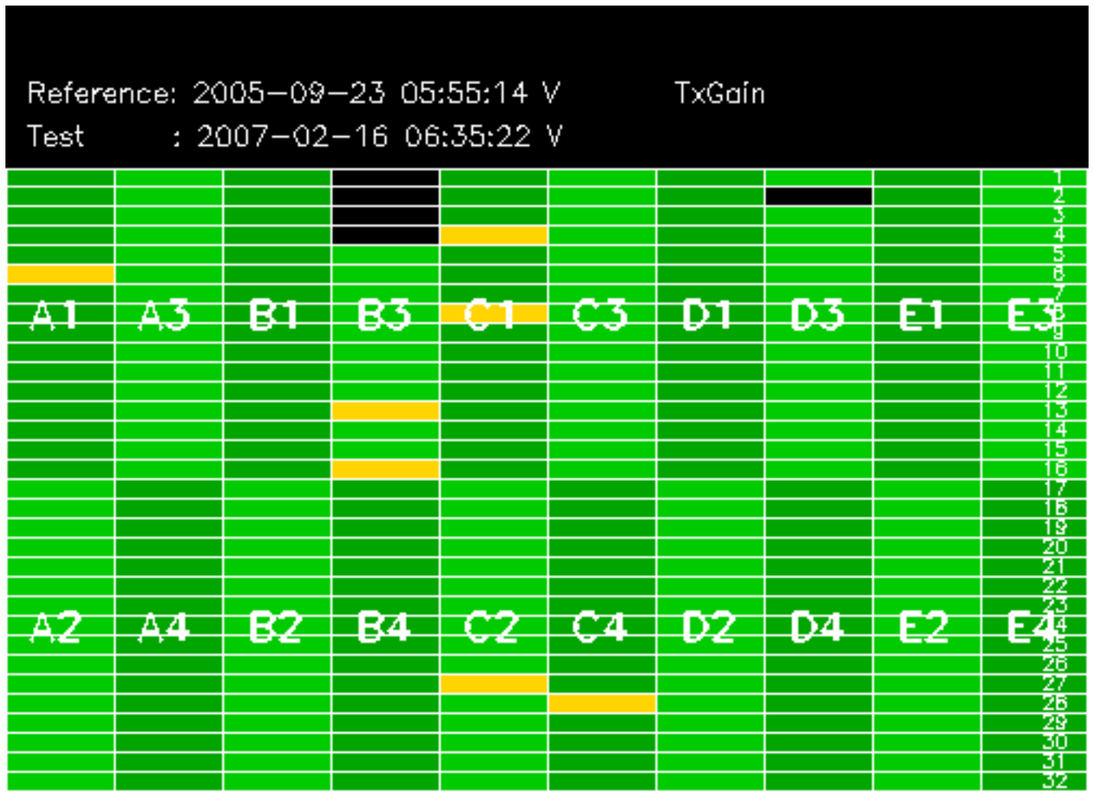
Reference: 2005-09-23 05:55:14 V
Test : 2007-02-16 06:35:22 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
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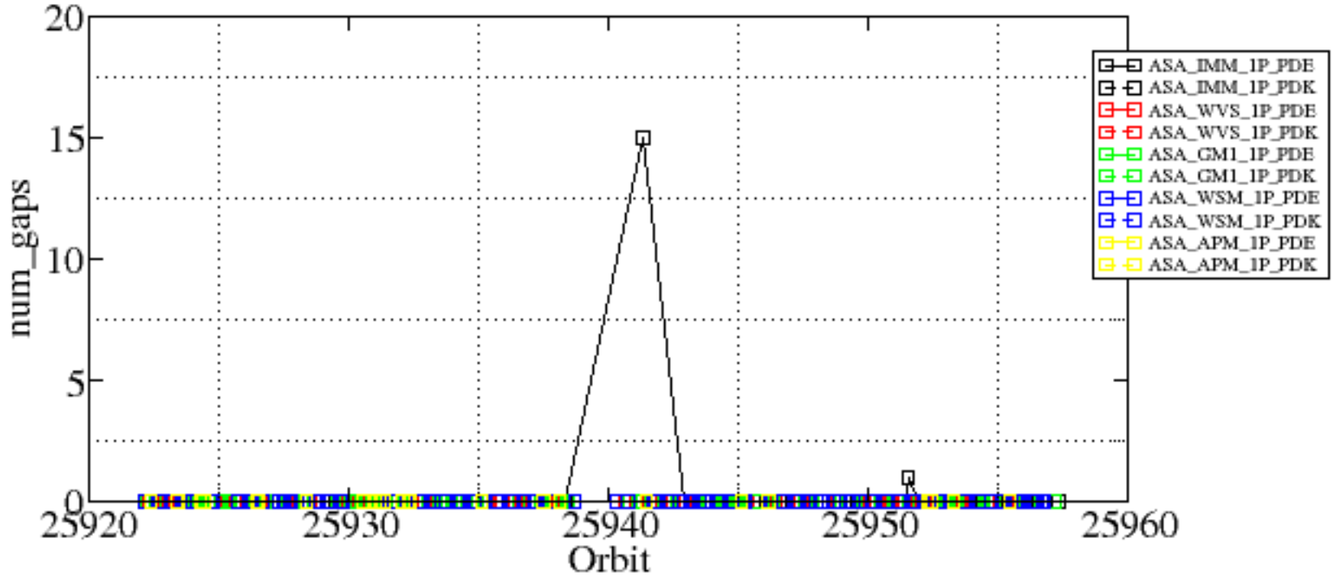
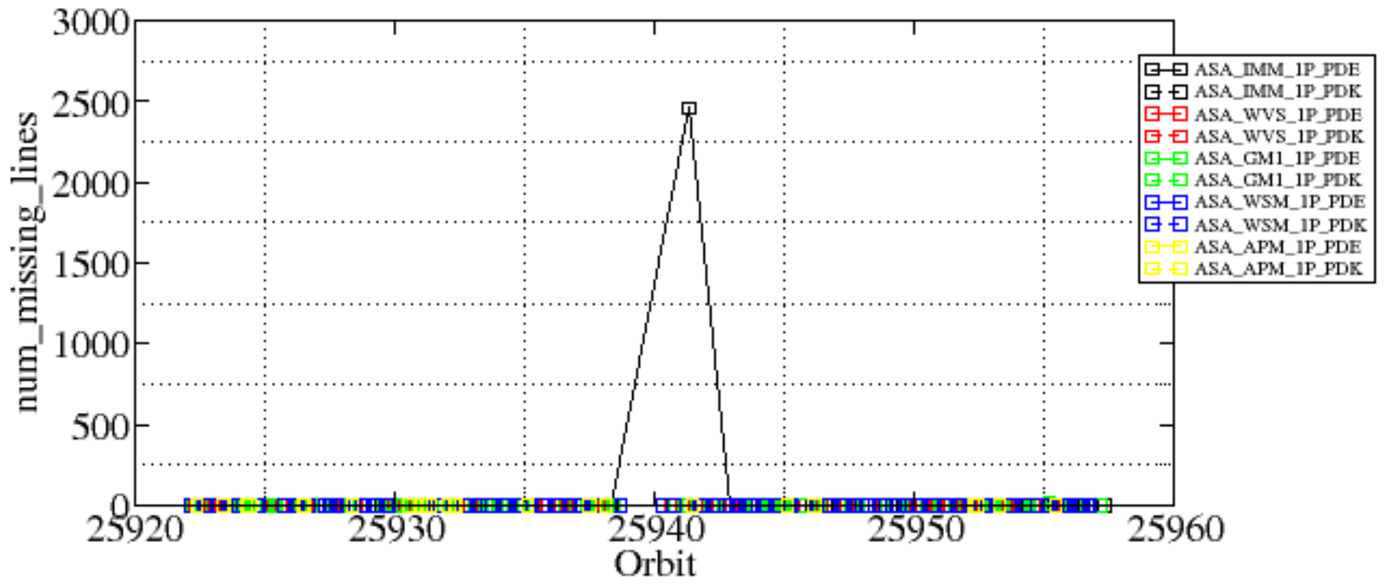
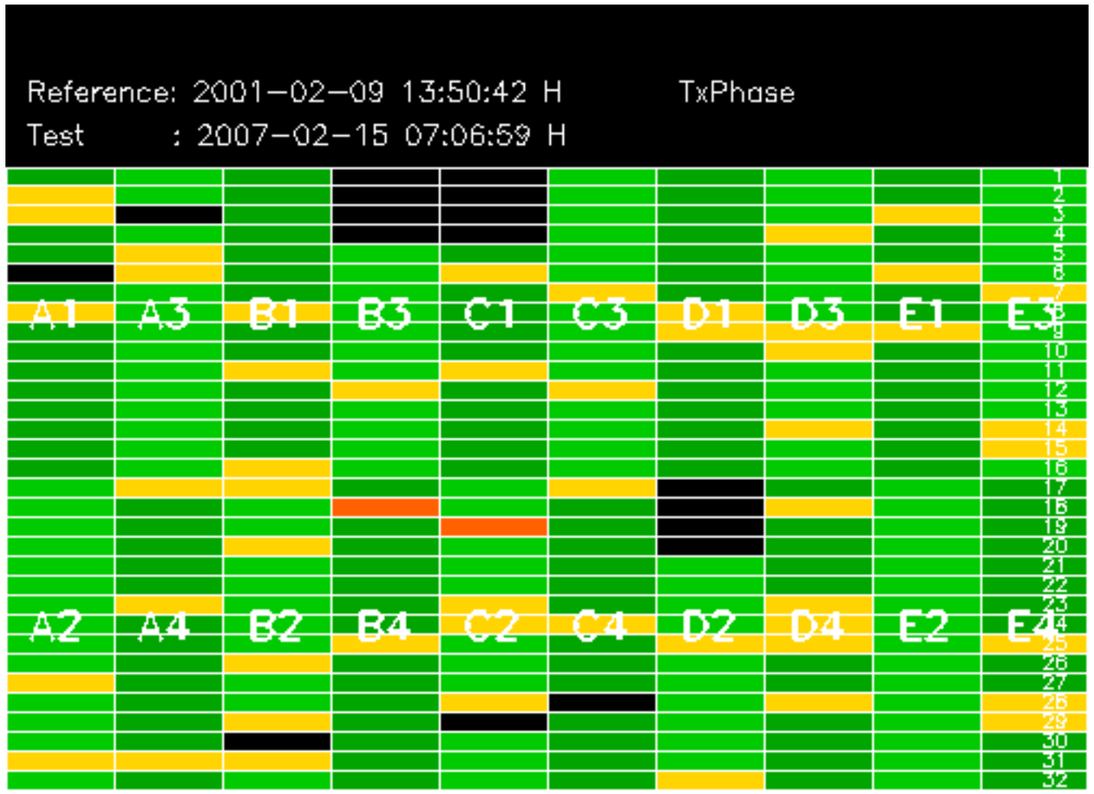
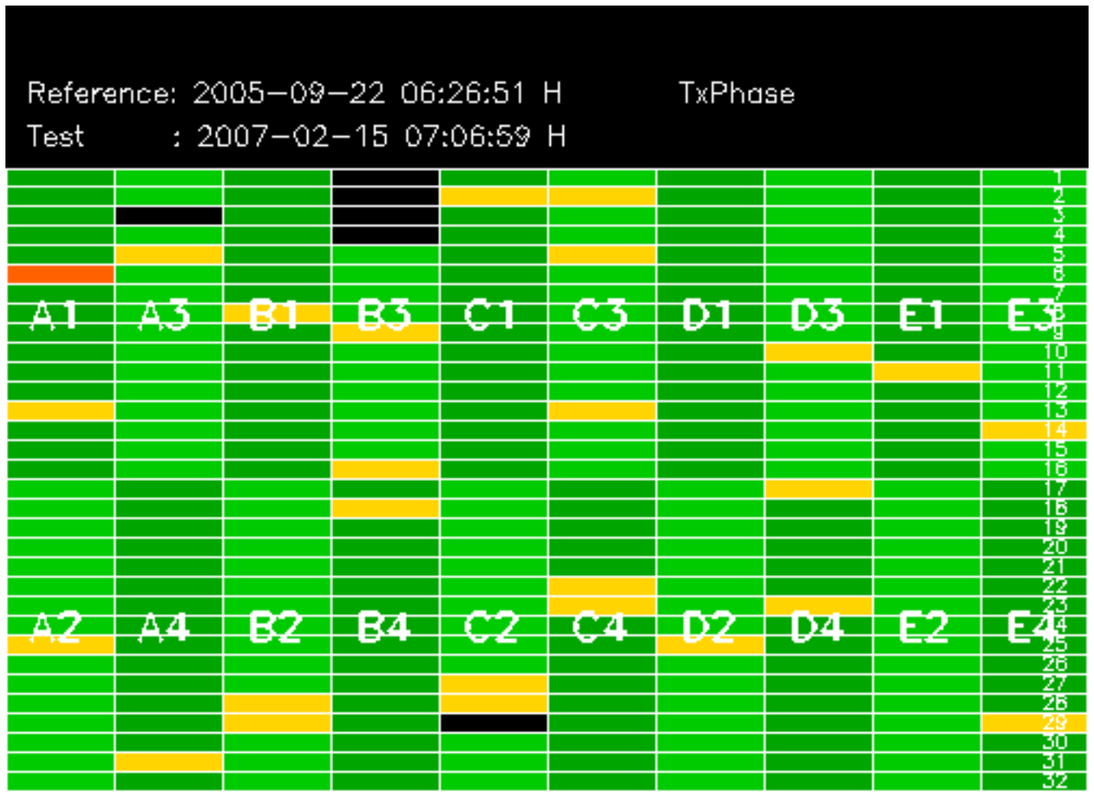
31
32

Summary of analysis for the last 3 days 2007021[456]
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_1PNPDE20070215_081235_000003682055_00336_25941_8530.N1 </td> <td>15 </td> <td>2459 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20070216_012024_000000352055_00346_25951_9272.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20070214_130229_000004652055_00324_25929_5768.N1 </td> <td>0 </td> <td>9 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20070216_072909_000004652055_00350_25955_7551.N1 </td> <td>0 </td> <td>14 </td></tr>
</table><br><br><br>


num_gaps
20
15
10
5
0
25920
25930
25940
25950
25960
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
3000
2500
2000
1500
1000
500
0
25920
25930
25940
25950
25960
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
Test : 2007-02-15 07:06:59 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
TxPhase
Test : 2007-02-15 07:06:59 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
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14
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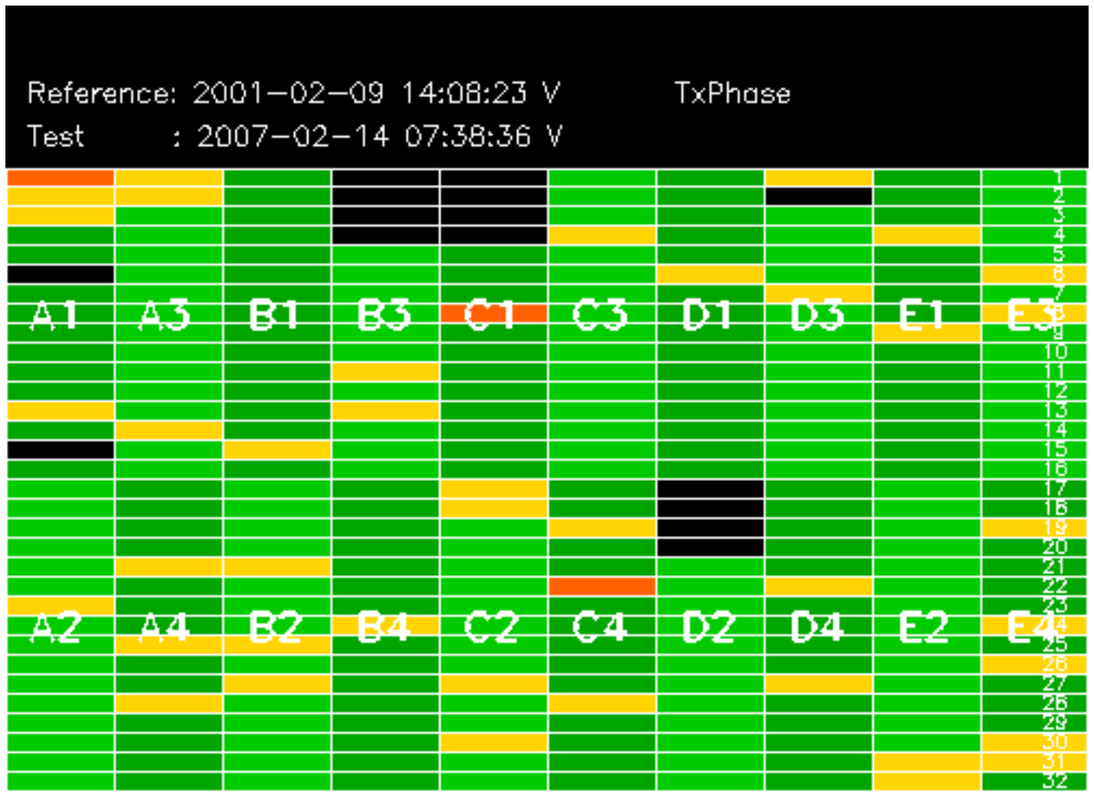
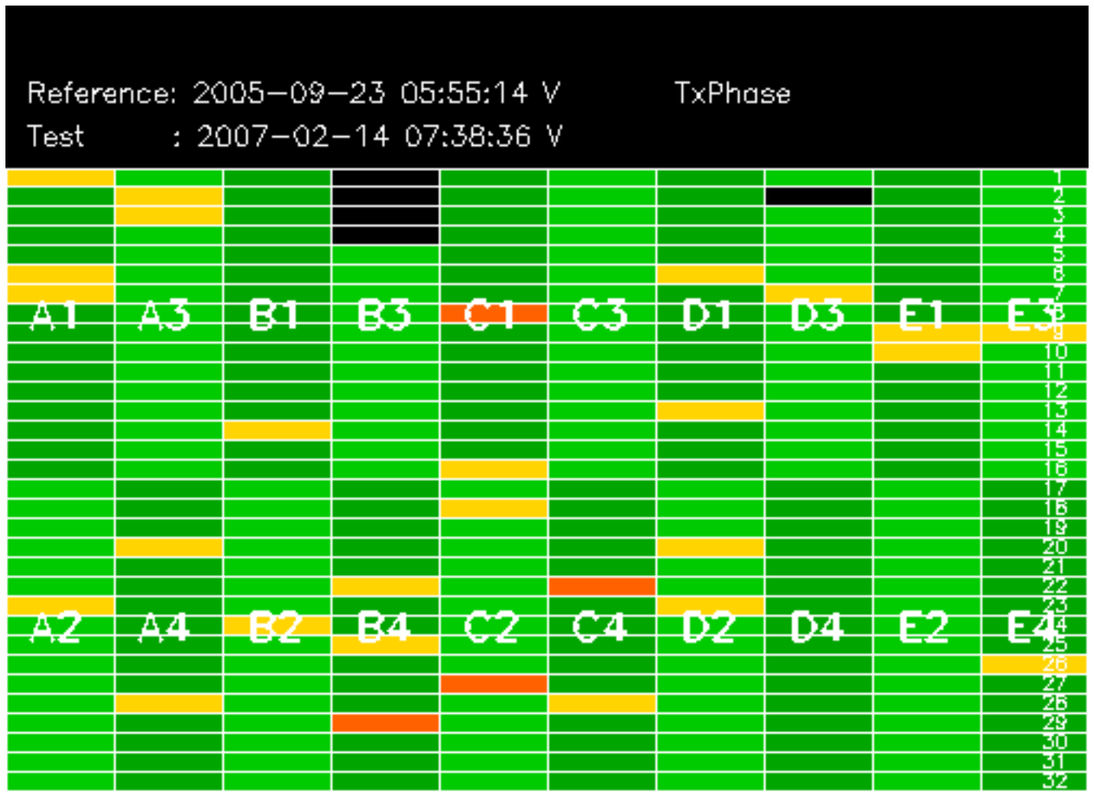
32


Reference: 2001-02-09 14:08:23 V
Test : 2007-02-14 07:38:36 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
TxPhase
Test : 2007-02-14 07:38:36 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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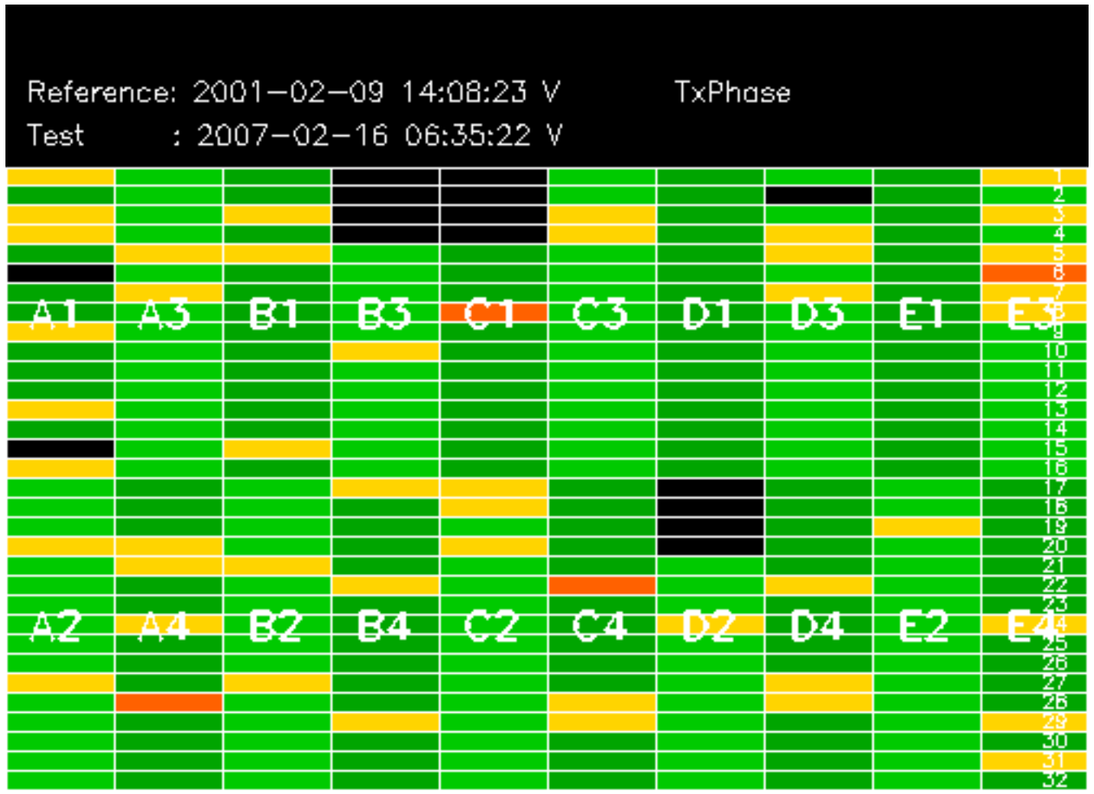
Reference: 2001-02-09 14:08:23 V
Test : 2007-02-16 06:35:22 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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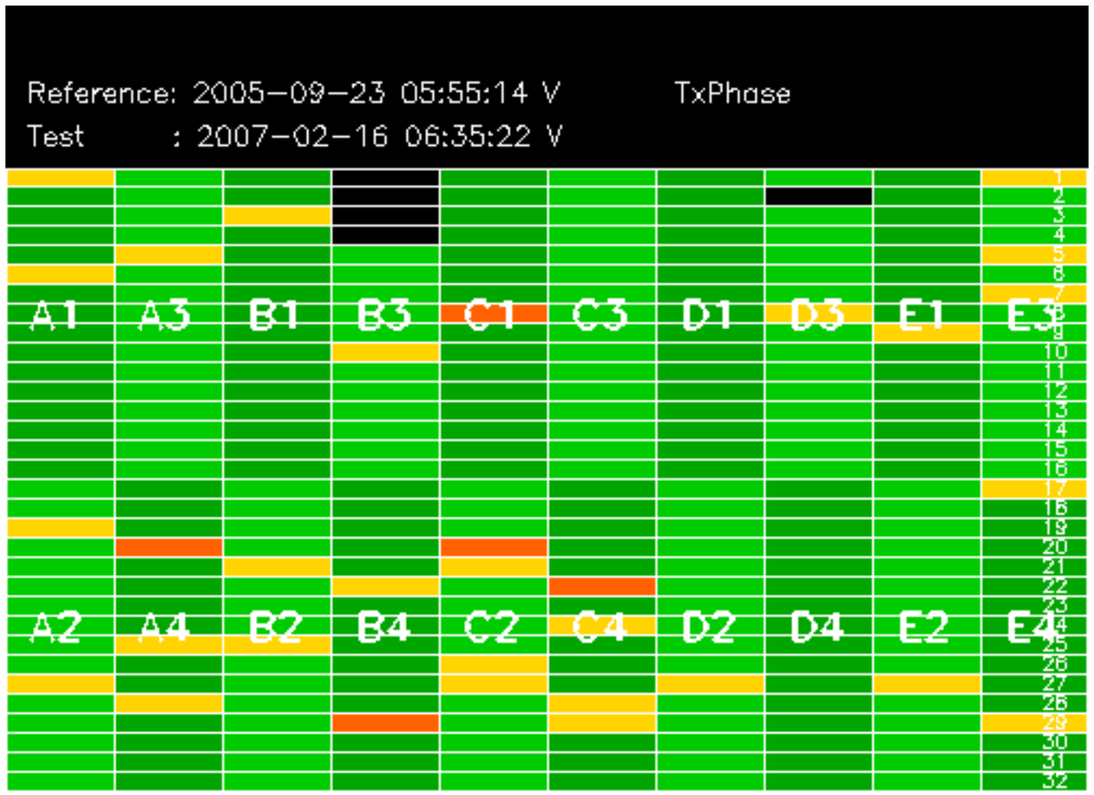
Reference: 2005-09-23 05:55:14 V
TxPhase
Test : 2007-02-16 06:35:22 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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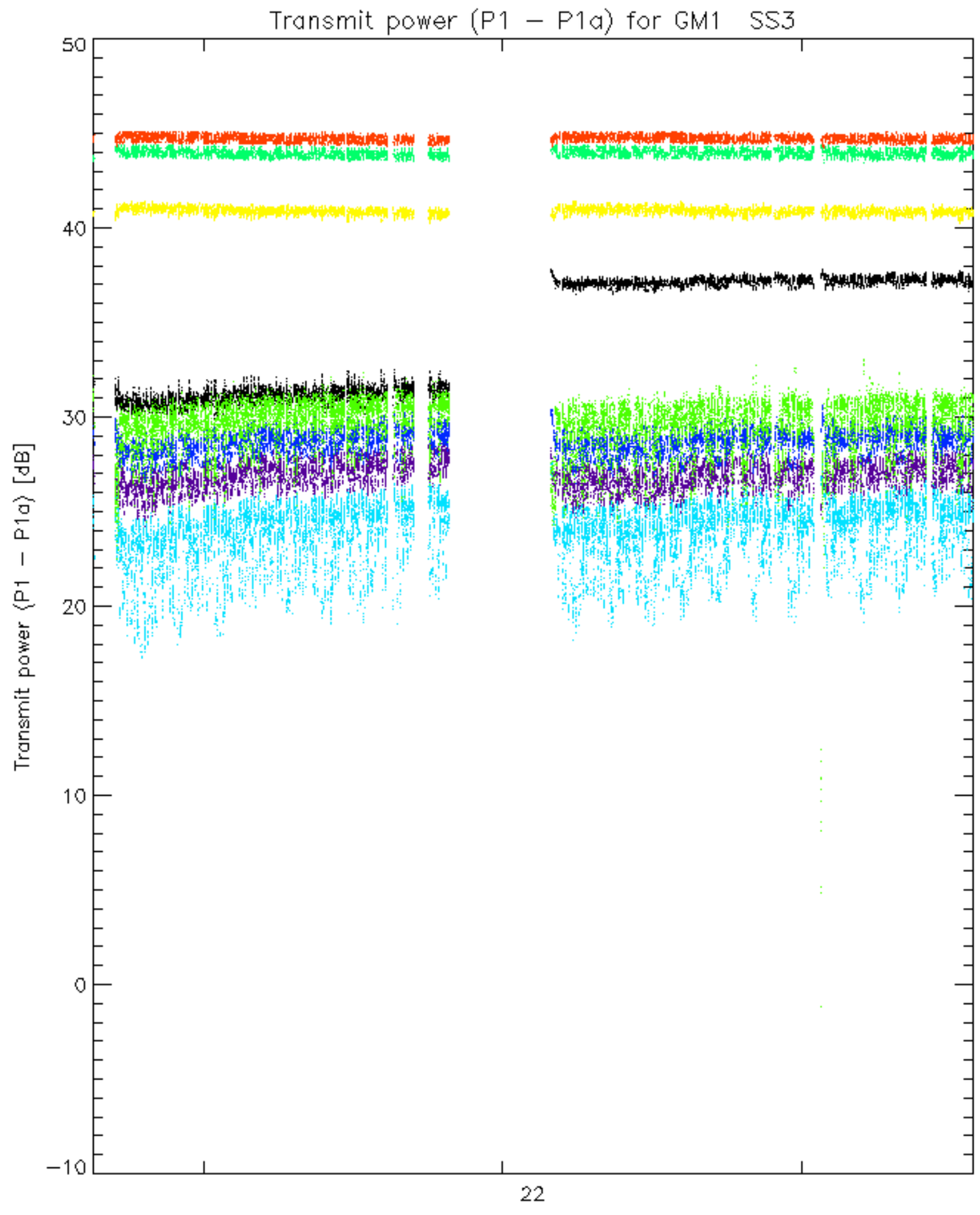
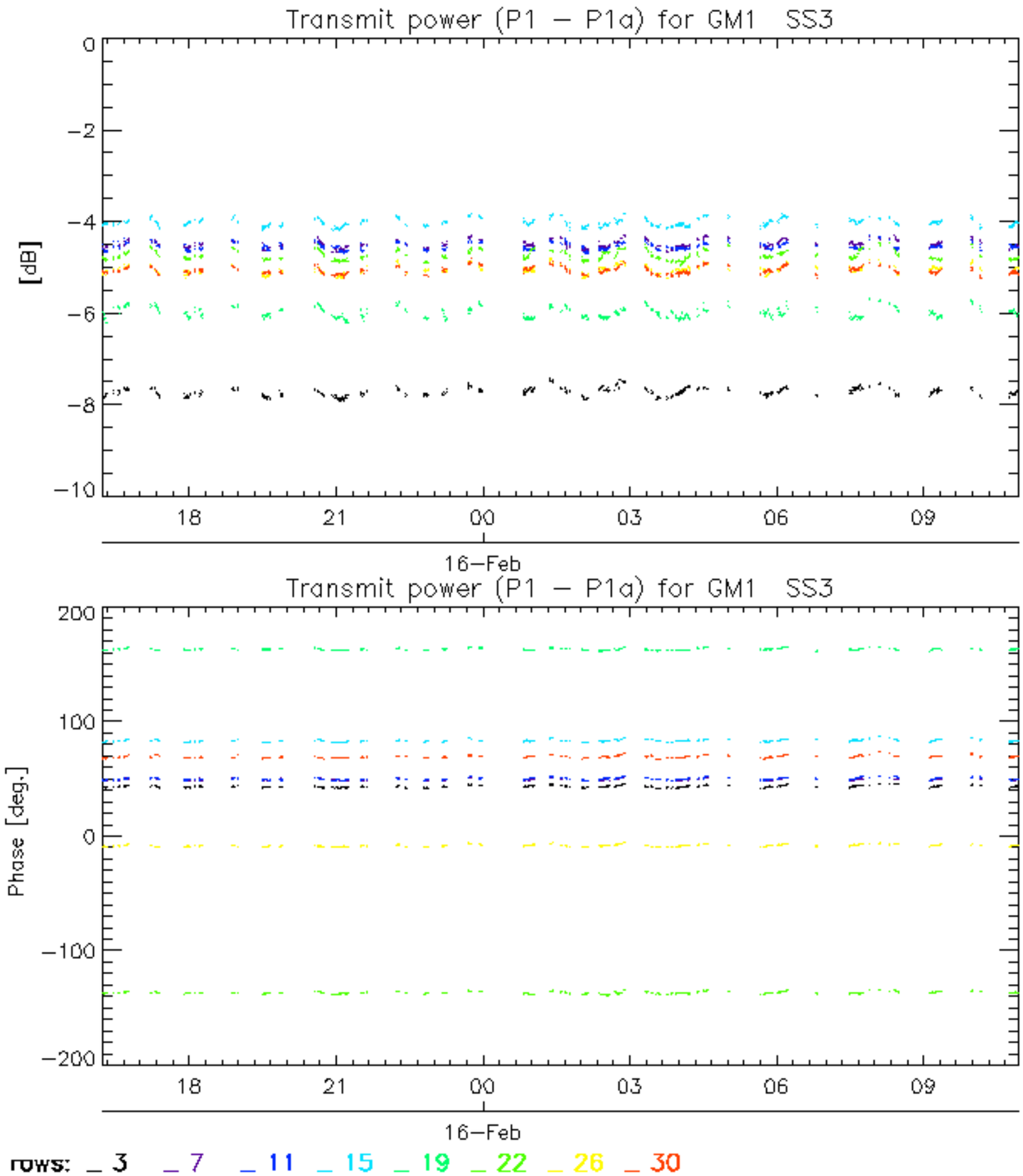
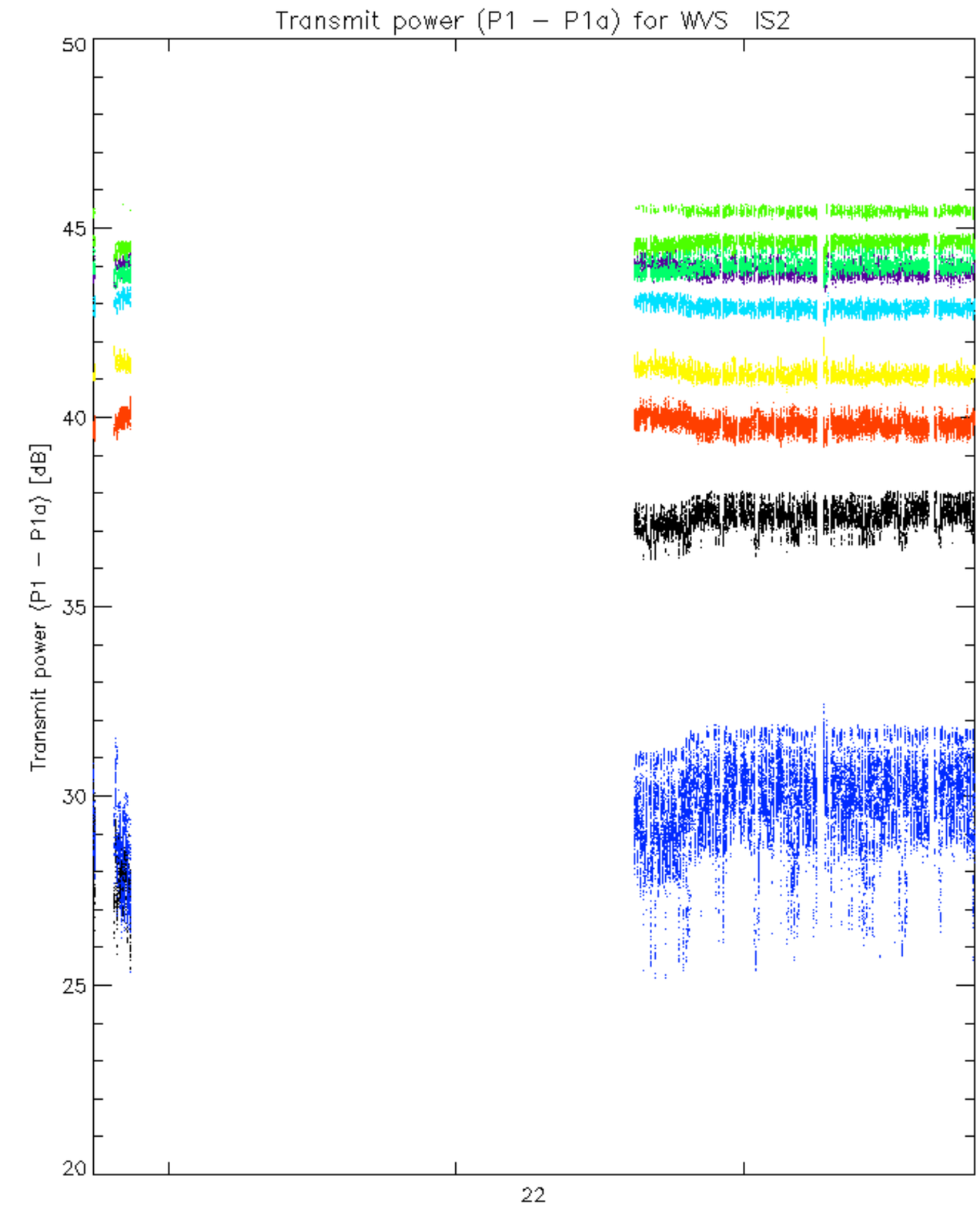
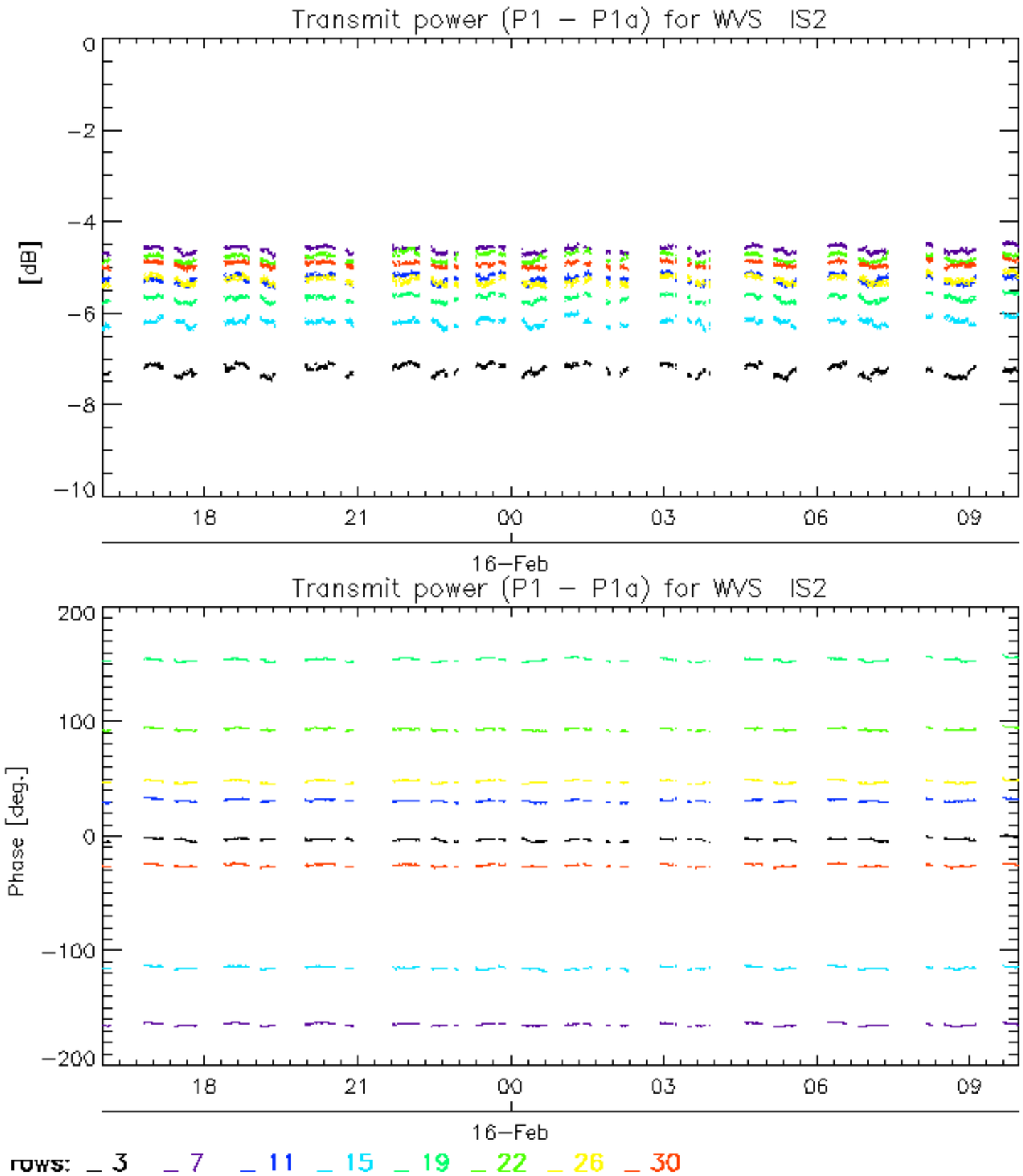

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
22
rows: 3 7 11 15 19 22 26 30


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

No unavailabilities during the reported period.