# REPORT OF 041102

### last update on Mon Nov 8 13:43:26 GMT 2004



## 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

ASAR ANTENNA reset due to tile E2 transmit power drop that began on 02-NOV-2004 14:17:25 UTC
From 03 Nov 2004 09:59:30.000 UTC (Orbit = 14004) to 03 Nov 2004 10:04:58.000 UTC (Orbit = 14004)

### 2.2 - Browse Visual Inspection

Impact visible on Scansar products.

### 2.3 - Data Analysis

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

# 3 - Module Stepping Mode

The MS mode provides an internal health check on an individual module basis.
The purpose of this mode is to identify to identify any malfunctionning modules and to identify modules for which calibration offsets are to be applied.
No anomalies observed on available MS products:

| Polarisation | Start Time |
|---|---|
| V | 20041031 053217 |
| H | 20041030 060354 |

**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 | -3.479783 | 0.006376 | -0.004869 |
| 7 | P1 | -3.355586 | 0.012115 | -0.021419 |
| 11 | P1 | -4.612120 | 0.018788 | 0.044739 |
| 15 | P1 | -5.690234 | 0.032666 | 0.064935 |
| 19 | P1 | -3.562864 | 0.005542 | -0.090115 |
| 22 | P1 | -4.573473 | 0.013387 | -0.042791 |
| 24 | P1 | -4.963149 | 0.009118 | 0.027623 |
| 30 | P1 | -7.055600 | 0.016349 | -0.023923 |
| 3 | P1 | -16.076162 | 0.092518 | 0.092263 |

| | | | | |
|---|---|---|---|---|
| 7 | P1 | -14.041747 | 0.063830 | 0.017257 |
| 11 | P1 | -20.505421 | 0.202860 | -0.353513 |
| 15 | P1 | -11.708203 | 0.031938 | 0.065684 |
| 19 | P1 | -14.024243 | 0.025084 | -0.052595 |
| 22 | P1 | -16.206017 | 0.387426 | -0.179221 |
| 24 | P1 | -14.612480 | 0.253657 | -0.202220 |
| 30 | P1 | -18.034128 | 0.294740 | 0.125872 |

**P2 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P2 | -22.360149 | 0.088485 | -0.049133 |
| 7 | P2 | -22.609877 | 0.126110 | -0.008504 |
| 11 | P2 | -15.109988 | 0.121447 | 0.061356 |
| 15 | P2 | -7.119231 | 0.106432 | -0.067393 |
| 19 | P2 | -9.669287 | 0.125739 | -0.134255 |
| 22 | P2 | -17.273781 | 0.107836 | 0.064440 |
| 24 | P2 | -20.796438 | 0.092088 | -0.015986 |
| 30 | P2 | -19.076275 | 0.084677 | 0.079030 |

**P3 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P3 | -8.188868 | 0.005367 | -0.035428 |
| 7 | P3 | -8.188867 | 0.005367 | -0.035427 |
| 11 | P3 | -8.188866 | 0.005367 | -0.035433 |
| 15 | P3 | -8.188865 | 0.005367 | -0.035434 |
| 19 | P3 | -8.188868 | 0.005367 | -0.035433 |
| 22 | P3 | -8.188870 | 0.005367 | -0.035438 |
| 24 | P3 | -8.188870 | 0.005367 | -0.035437 |
| 30 | P3 | -8.188996 | 0.005371 | -0.035484 |

### 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 | -2.819318 | 0.013766 | 0.061160 |
| 7 | P1 | -2.965113 | 0.048059 | 0.072817 |
| 11 | P1 | -3.892263 | 0.023099 | -0.012707 |
| 15 | P1 | -3.489703 | 0.024671 | 0.007370 |
| 19 | P1 | -3.561764 | 0.013443 | -0.102487 |
| 22 | P1 | -5.642022 | 0.063378 | 0.079403 |
| 24 | P1 | -3.972800 | 0.022662 | -0.015073 |
| 30 | P1 | -6.235639 | 0.045850 | -0.071931 |
| 3 | P1 | -10.713650 | 0.093170 | 0.441093 |
| 7 | P1 | -10.066870 | 0.168155 | 0.049044 |
| 11 | P1 | -12.292465 | 0.128941 | -0.170302 |
| 15 | P1 | -11.685428 | 0.072793 | -0.002410 |
| 19 | P1 | -15.606182 | 0.060974 | -0.048124 |
| 22 | P1 | -23.741556 | 1.664196 | -0.416189 |
| 24 | P1 | -18.146049 | 0.226837 | -0.084607 |
| 30 | P1 | -20.313522 | 1.048912 | 0.224264 |

### P2 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P2 | -18.039768 | 0.046052 | -0.071243 |
| 7 | P2 | -22.692722 | 0.063332 | 0.037290 |
| 11 | P2 | -10.877528 | 0.045071 | 0.005017 |
| 15 | P2 | -5.020626 | 0.028891 | -0.064132 |
| 19 | P2 | -6.885369 | 0.041539 | -0.199725 |
| 22 | P2 | -7.392347 | 0.038102 | 0.043781 |
| 24 | P2 | -11.143565 | 0.052113 | -0.093536 |
| 30 | P2 | -22.103121 | 0.036586 | 0.026179 |

### P3 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P3 | -8.030814 | 0.003292 | -0.033946 |

| | | | | |
|---|---|---|---|---|
| 7 | P3 | -8.030733 | 0.003297 | -0.033840 |
| 11 | P3 | -8.030792 | 0.003285 | -0.033657 |
| 15 | P3 | -8.030712 | 0.003288 | -0.033701 |
| 19 | P3 | -8.030740 | 0.003291 | -0.033803 |
| 22 | P3 | -8.030781 | 0.003292 | -0.033923 |
| 24 | P3 | -8.030913 | 0.003307 | -0.033825 |
| 30 | P3 | -8.030783 | 0.003299 | -0.033969 |

### 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 | 0.000478404 |
| | stdev | 2.13772e-07 |
| MEAN Q | mean | 0.000552182 |
| | stdev | 2.32961e-07 |



### 5.2 - Input stdev I/Q

| channel | stat | DSS-B |
|---|---|---|
| STDEV I | mean | 0.127239 |
| | stdev | 0.000925800 |
| STDEV Q | mean | 0.127456 |

| | |
|---|---|
| stdev | 0.000934764 |

### 5.3 - Gain imbalance I/Q

## 6 - Doppler Analysis

Preliminary report.The data is not yet controled

### 6.1 - Unbiased Doppler Error for WVS

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

### 6.2 - Absolute Doppler for WVS

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

### 6.3 - Doppler evolution versus ANX for WVS

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

## 6.4 - Unbiased Doppler Error for GM1

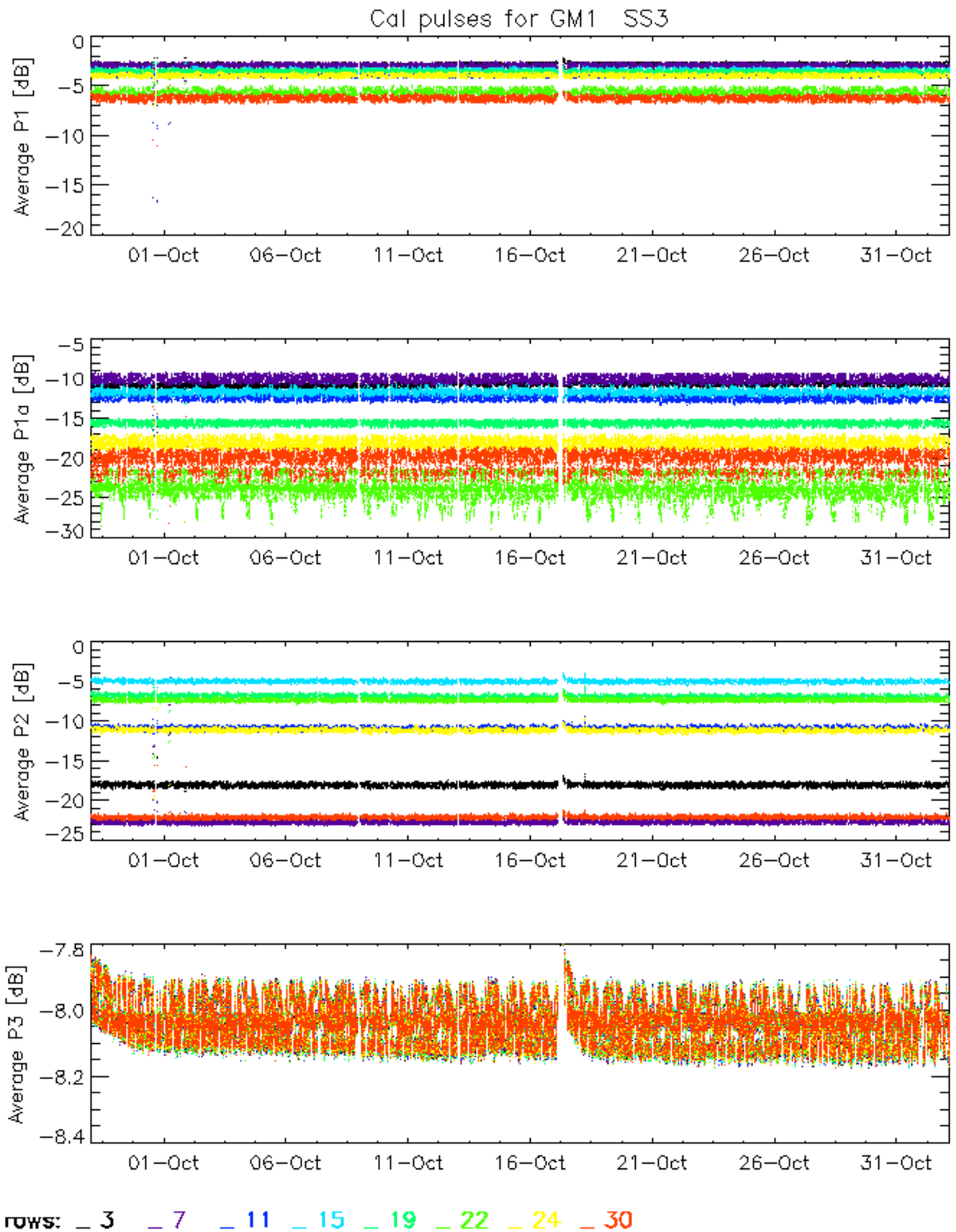
| Evolution of unbiased Doppler error (Real - Expected) |
| --- |
|  |
| Acsending |
|  |
| Descending |

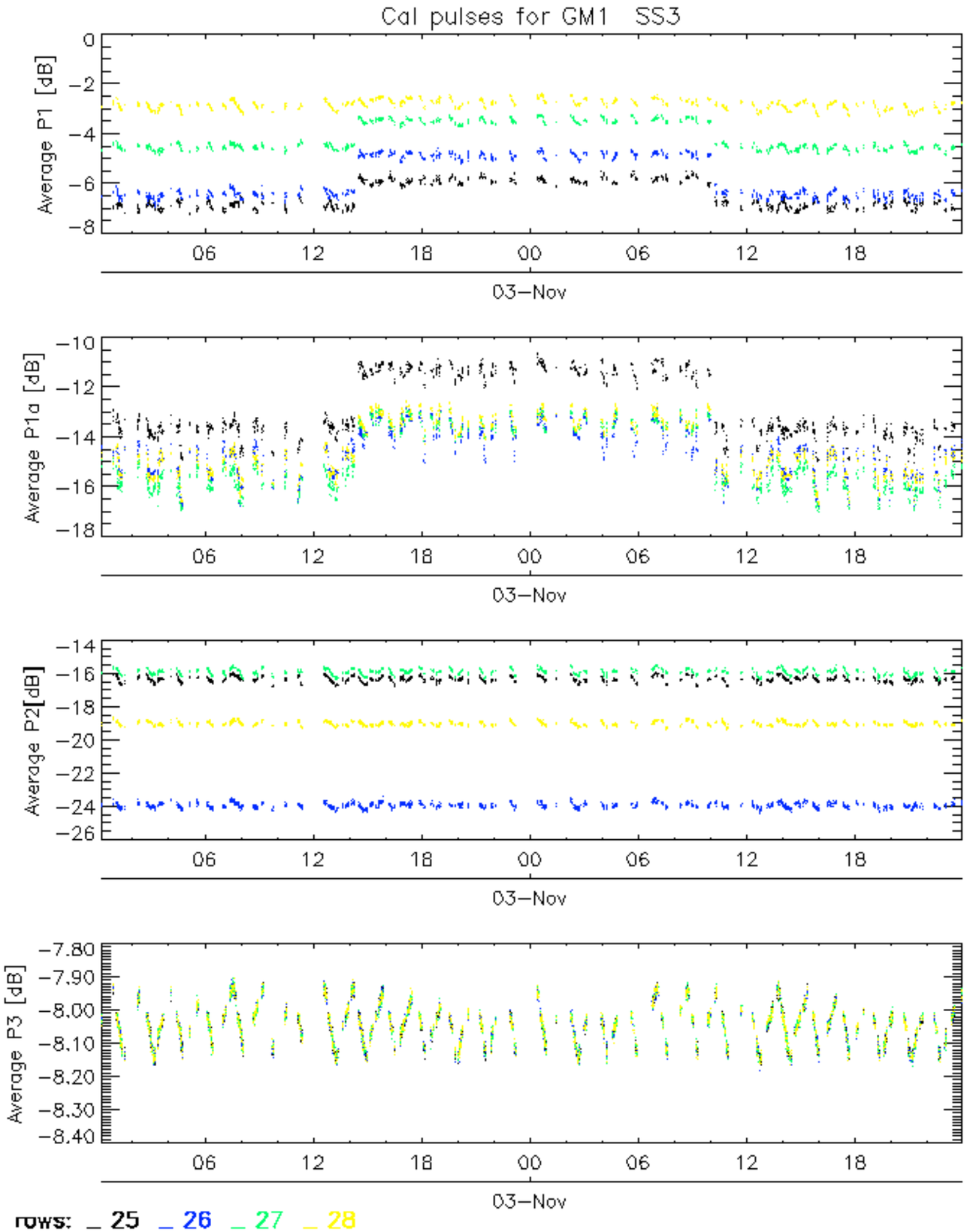
## 6.5 - Absolute Doppler for GM1

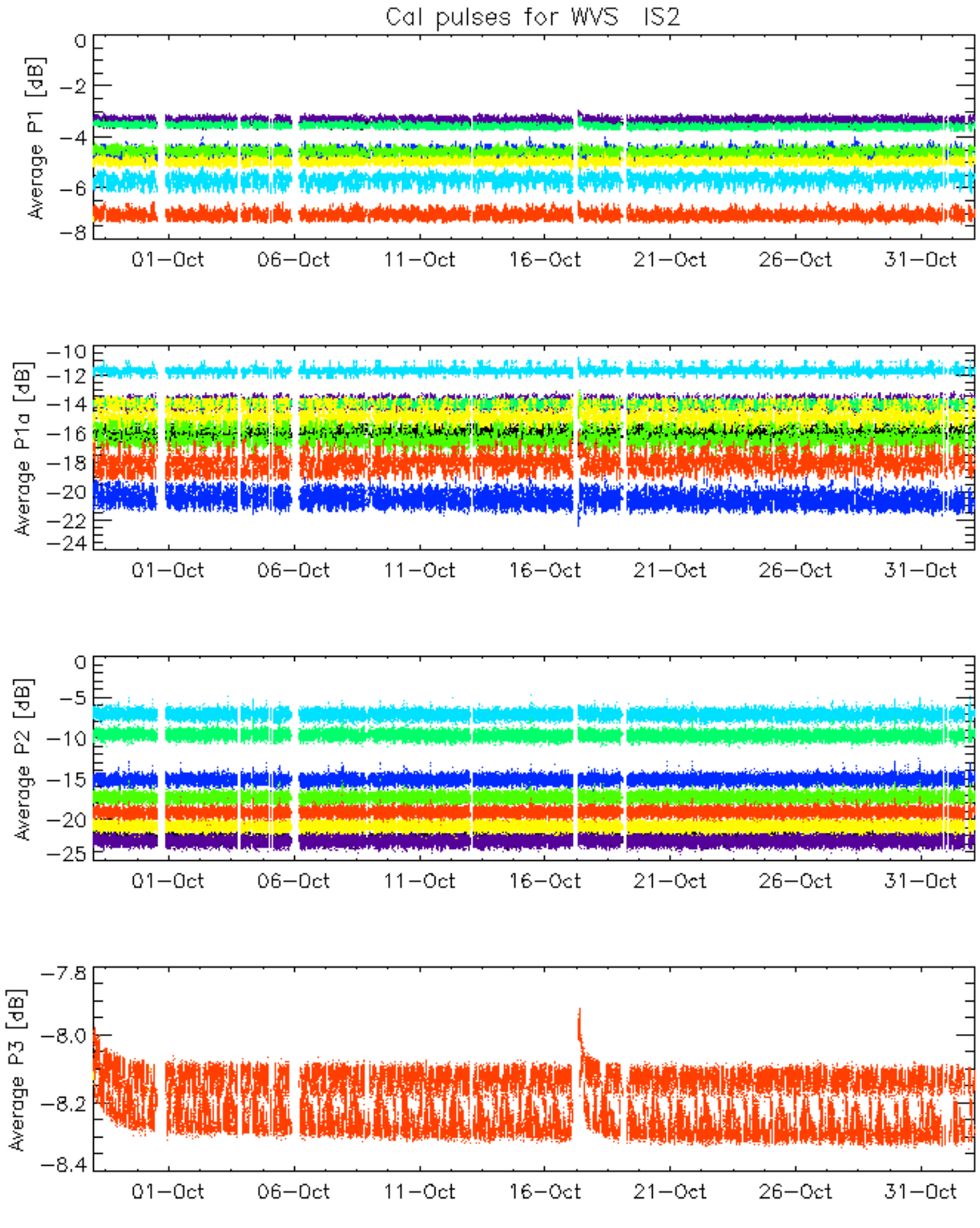
| Evolution of Absolute Doppler |
| --- |
|  |
| Acsending |
|  |
| Descending |

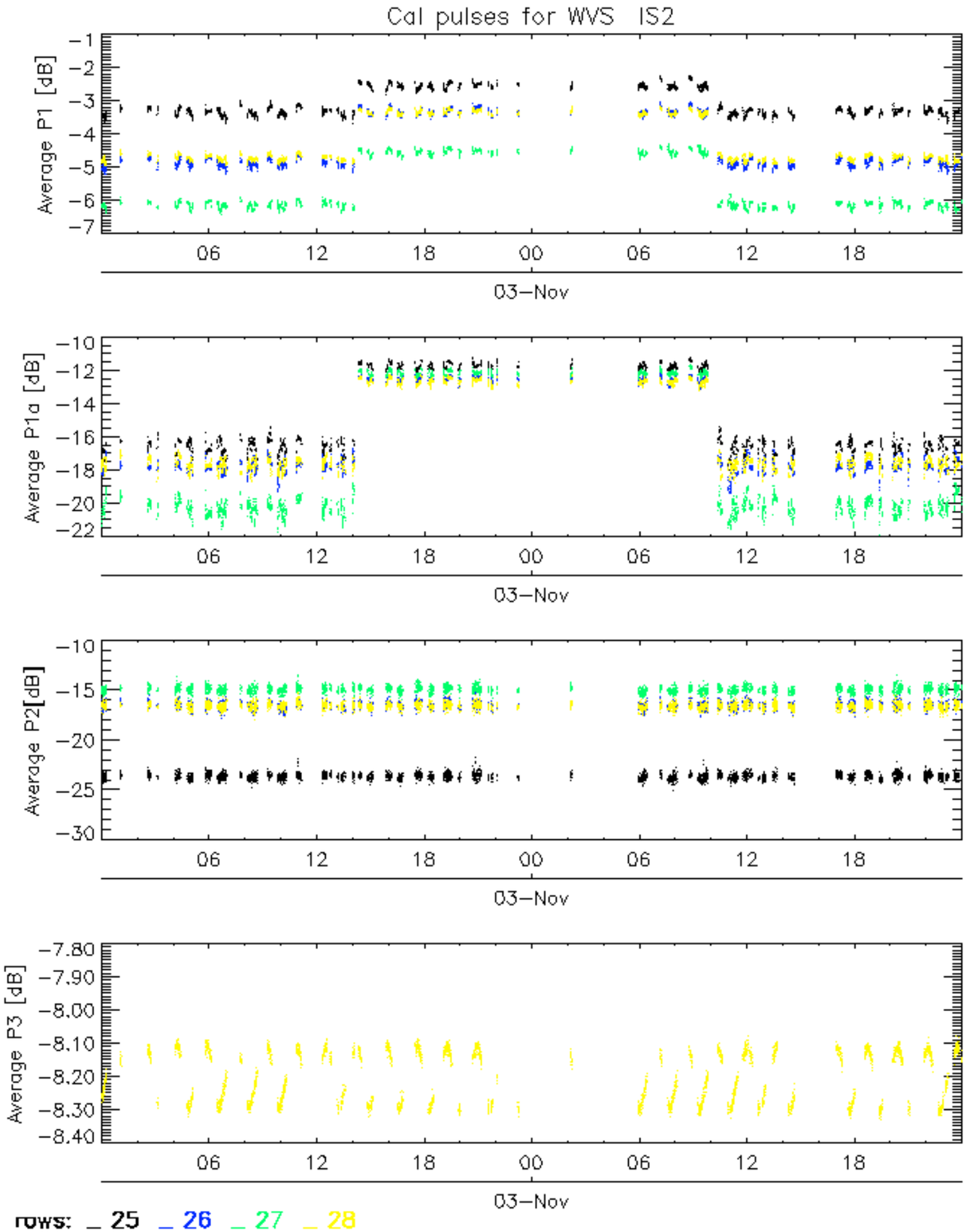
## 6.6 - Doppler evolution versus ANX for GM1

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


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
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct
31−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 24 _ 30

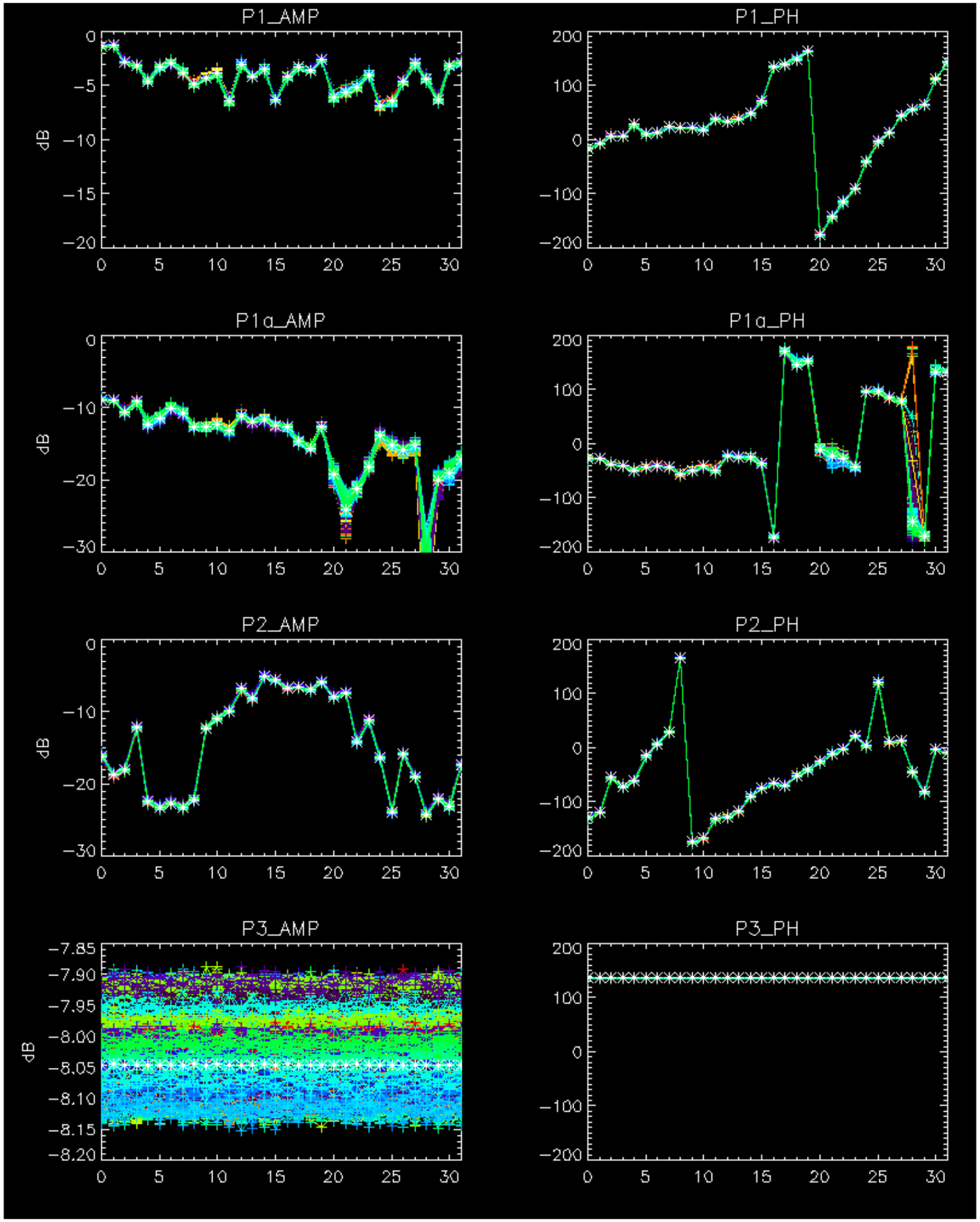

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
06
12
18
00
06
12
18
03−Nov
Average P1a [dB]
−10
−12
−14
−16
−18
06
12
18
00
06
12
18
03−Nov
Average P2[dB]
−14
−16
−18
−20
−22
−24
−26
06
12
18
00
06
12
18
03−Nov
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
06
12
18
00
06
12
18
03−Nov
rows: _ 25 _ 26 _ 27 _ 28

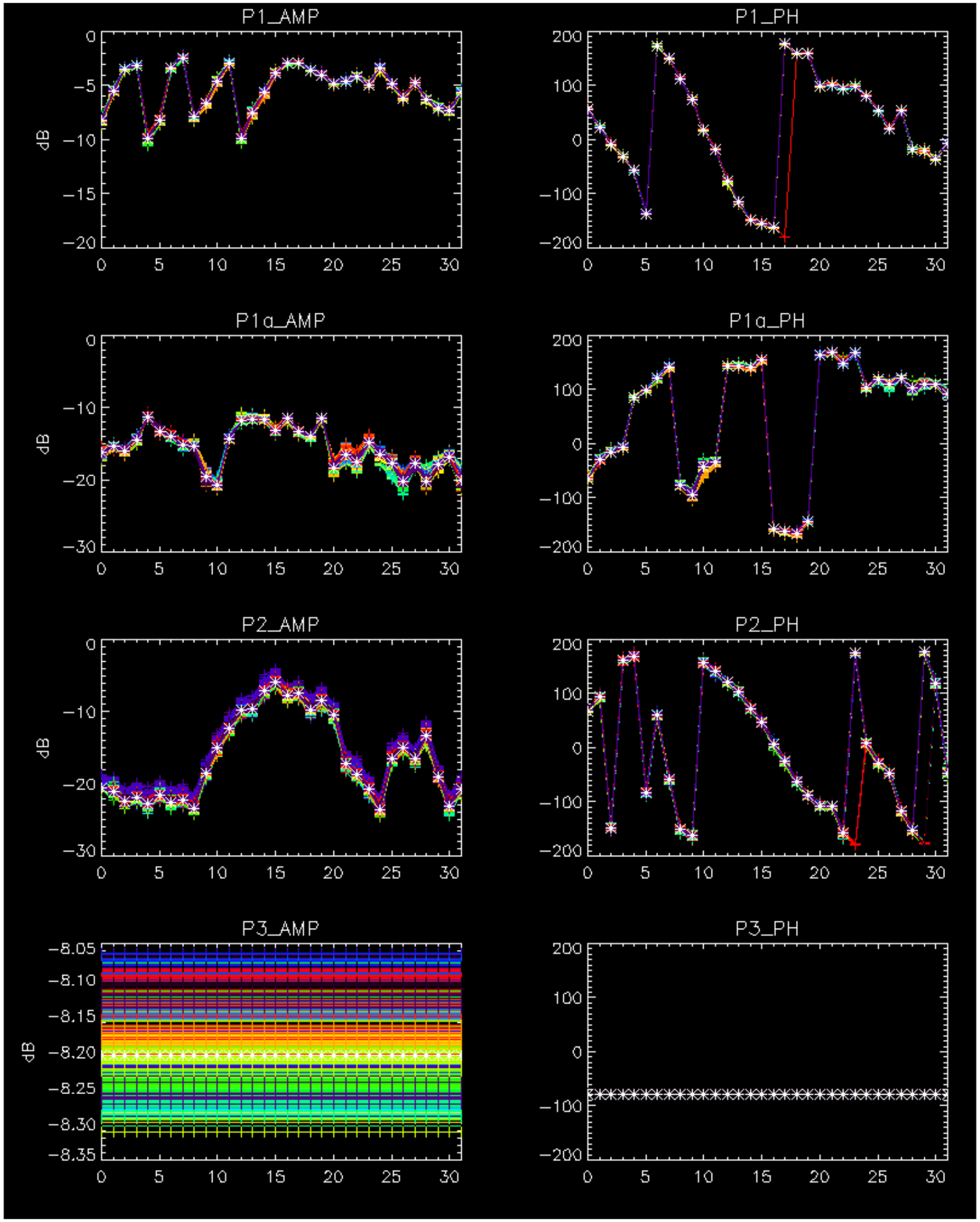

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
−10
−12
−14
−16
−18
−20
−22
−24
Average P2 [dB]
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct
31−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 24 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
06
12
18
00
06
12
18
03−Nov
Average P1a [dB]
−10
−12
−14
−16
−18
−20
−22
06
12
18
00
06
12
18
03−Nov
Average P2[dB]
−10
−15
−20
−25
−30
06
12
18
00
06
12
18
03−Nov
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
06
12
18
00
06
12
18
03−Nov
rows: _ 25 _ 26 _ 27 _ 28

Impact visible on Scansar products.

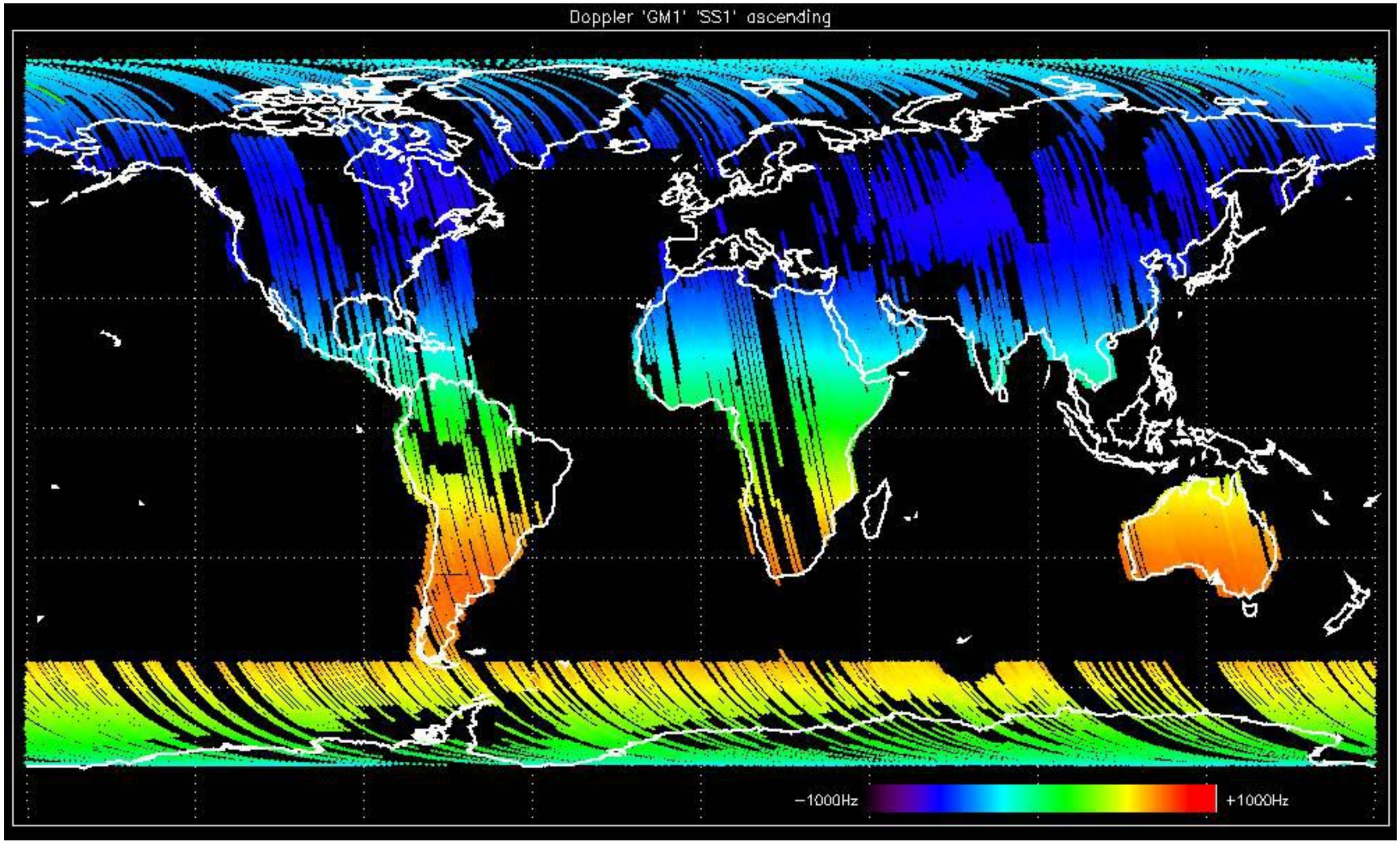
No anomalies observed.

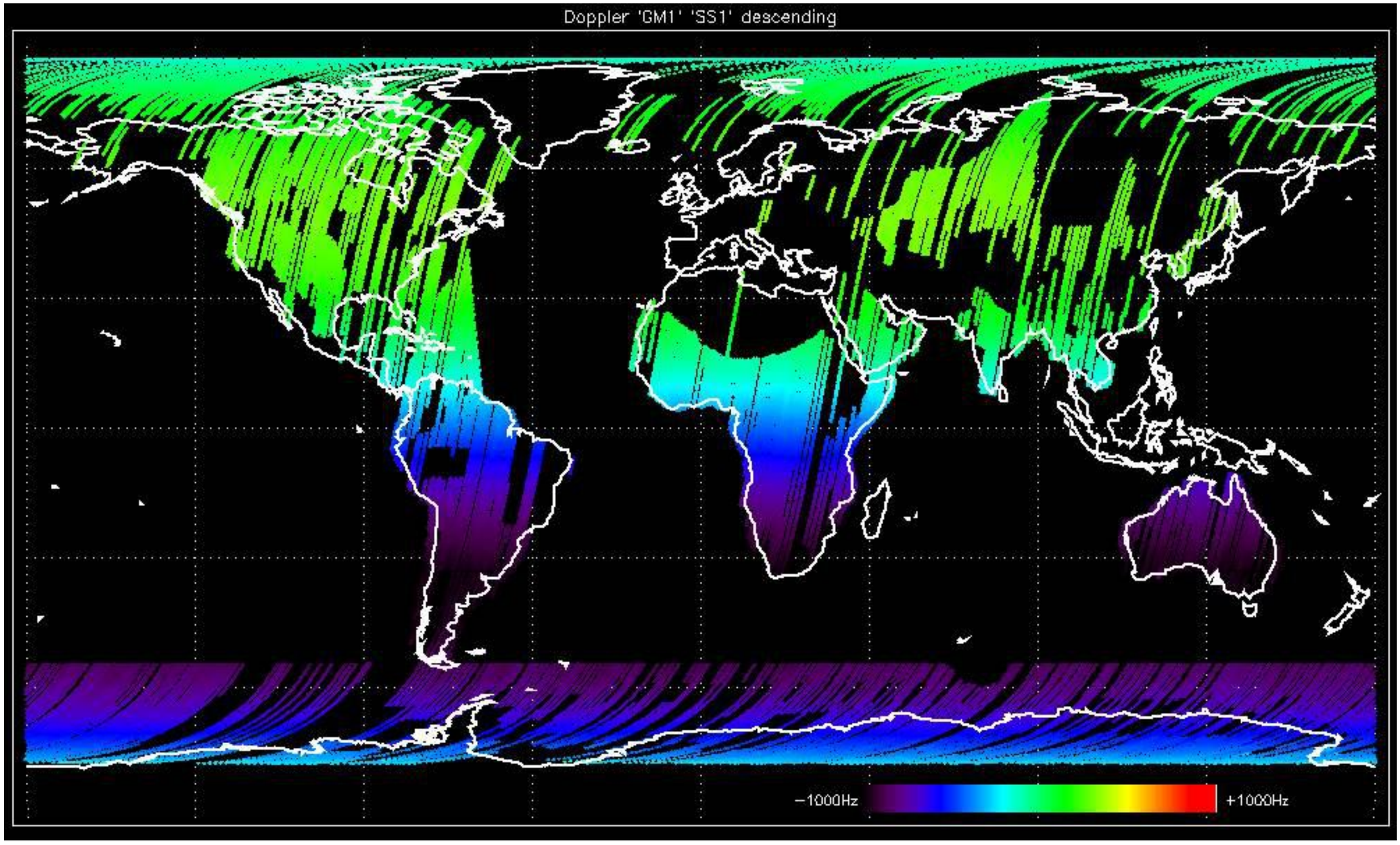

P1_AMP
dB
0
−5
−10
−15
−20
0 5 10 15 20 25 30
P1_PH
200
100
0
−100
−200
0 5 10 15 20 25 30
P1a_AMP
dB
0
−10
−20
−30
0 5 10 15 20 25 30
P1a_PH
200
100
0
−100
−200
0 5 10 15 20 25 30
P2_AMP
dB
0
−10
−20
−30
0 5 10 15 20 25 30
P2_PH
200
100
0
−100
−200
0 5 10 15 20 25 30
P3_AMP
dB
−7.85
−7.90
−7.95
−8.00
−8.05
−8.10
−8.15
−8.20
0 5 10 15 20 25 30
P3_PH
200
100
0
−100
−200
0 5 10 15 20 25 30

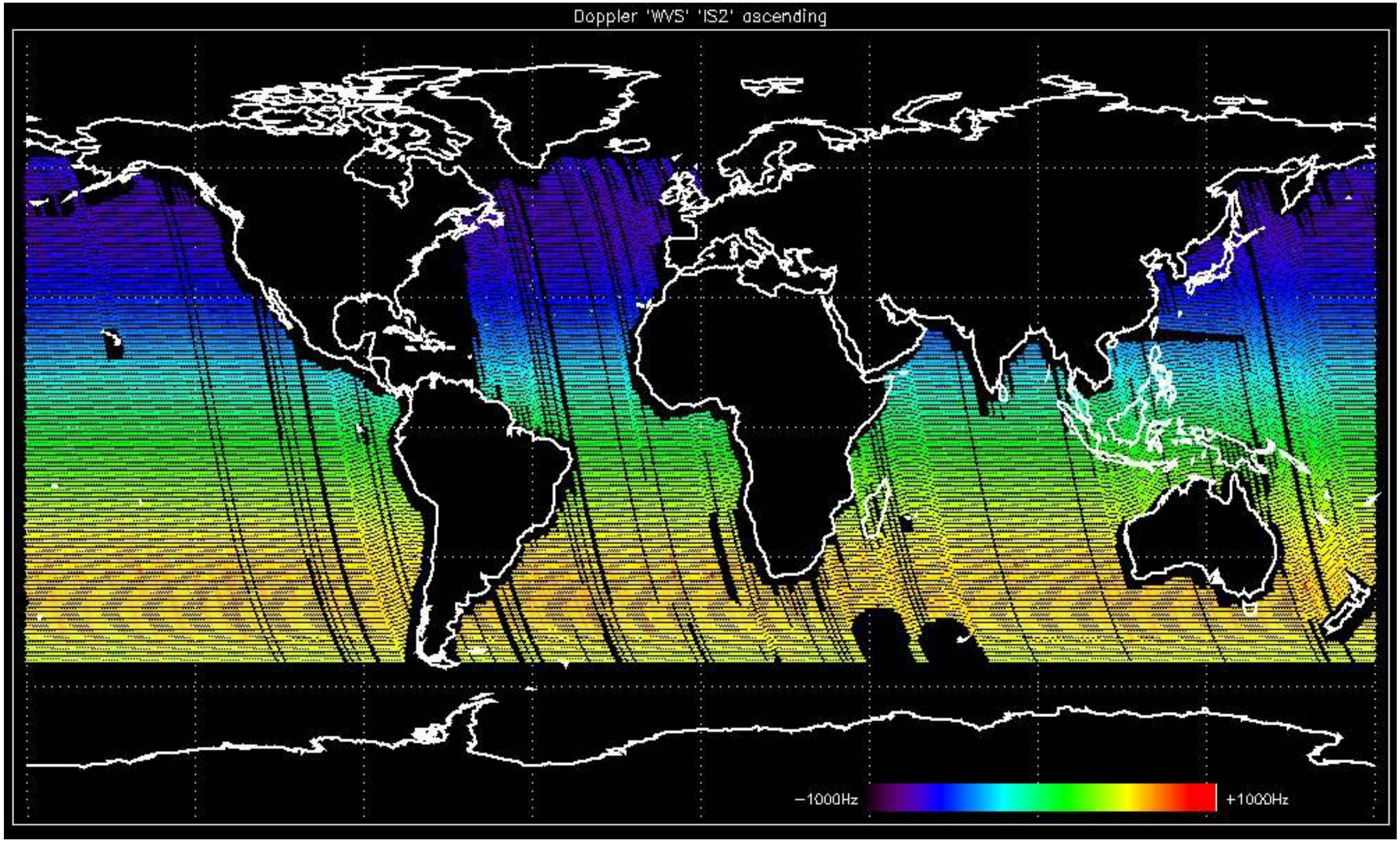

P1_AMP
dB
0
−5
−10
−15
−20
0 5 10 15 20 25 30
P1_PH
200
100
0
−100
−200
0 5 10 15 20 25 30
P1a_AMP
dB
0
−10
−20
−30
0 5 10 15 20 25 30
P1a_PH
200
100
0
−100
−200
0 5 10 15 20 25 30
P2_AMP
dB
0
−10
−20
−30
0 5 10 15 20 25 30
P2_PH
200
100
0
−100
−200
0 5 10 15 20 25 30
P3_AMP
dB
−8.05
−8.10
−8.15
−8.20
−8.25
−8.30
−8.35
0 5 10 15 20 25 30
P3_PH
200
100
0
−100
−200
0 5 10 15 20 25 30

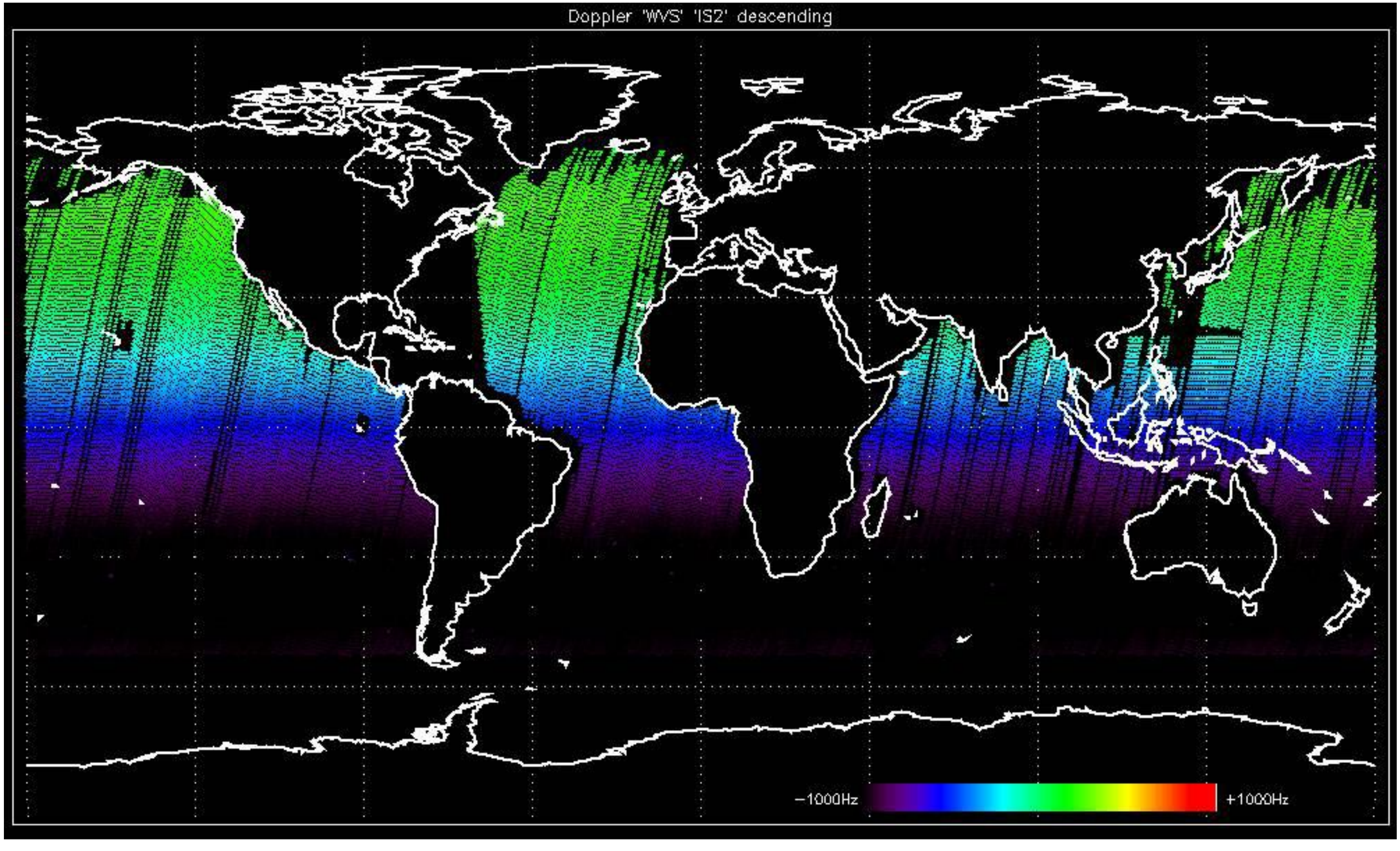
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

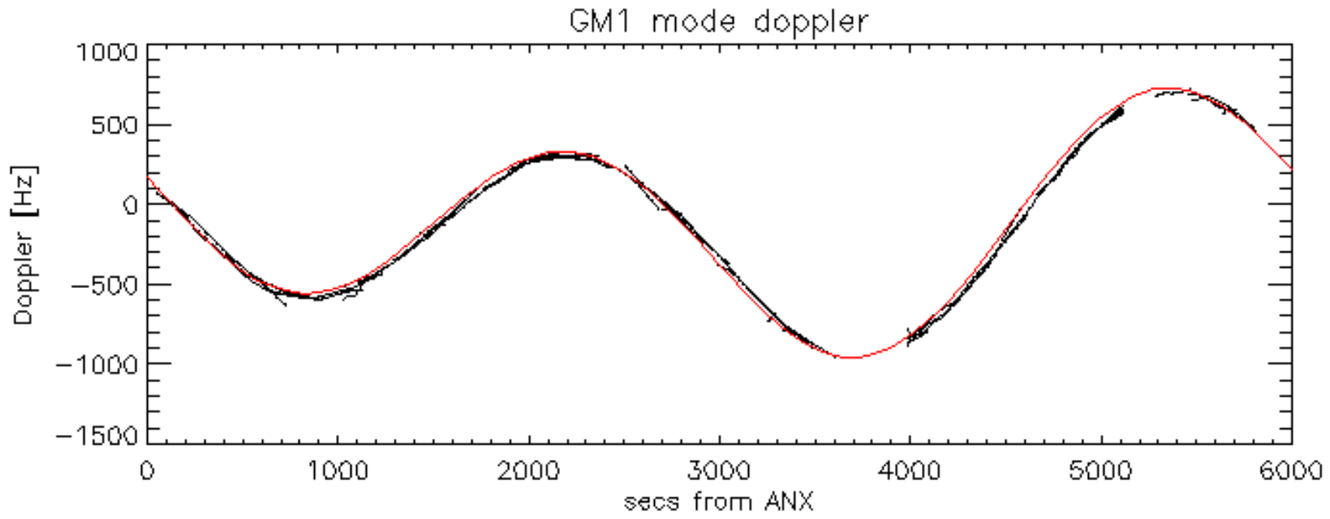
Preliminary report.The data is not yet controled

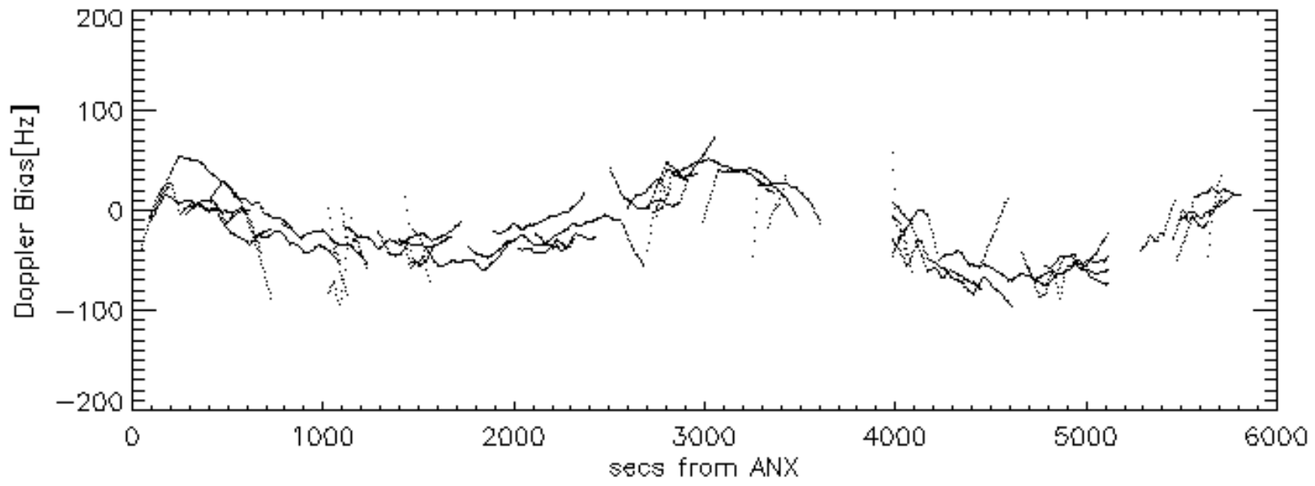

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

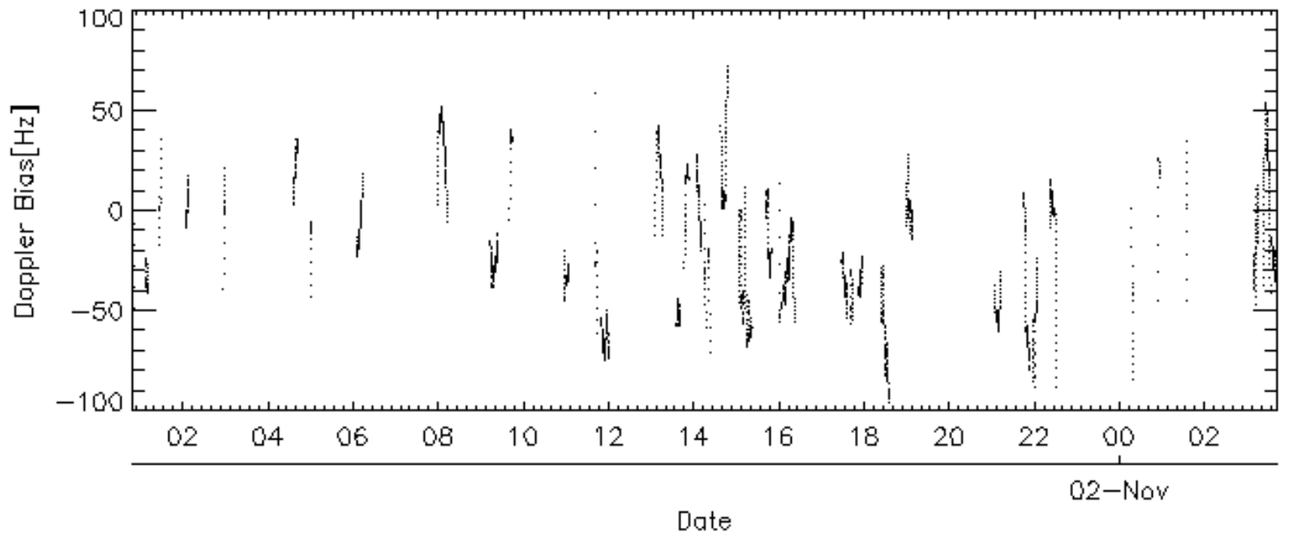

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

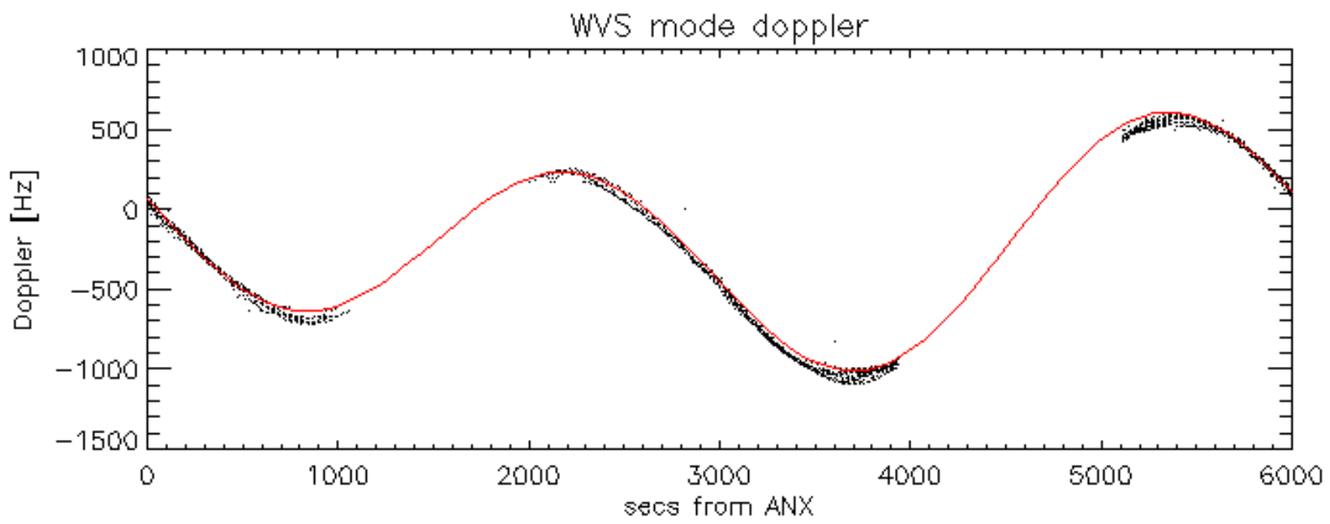

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

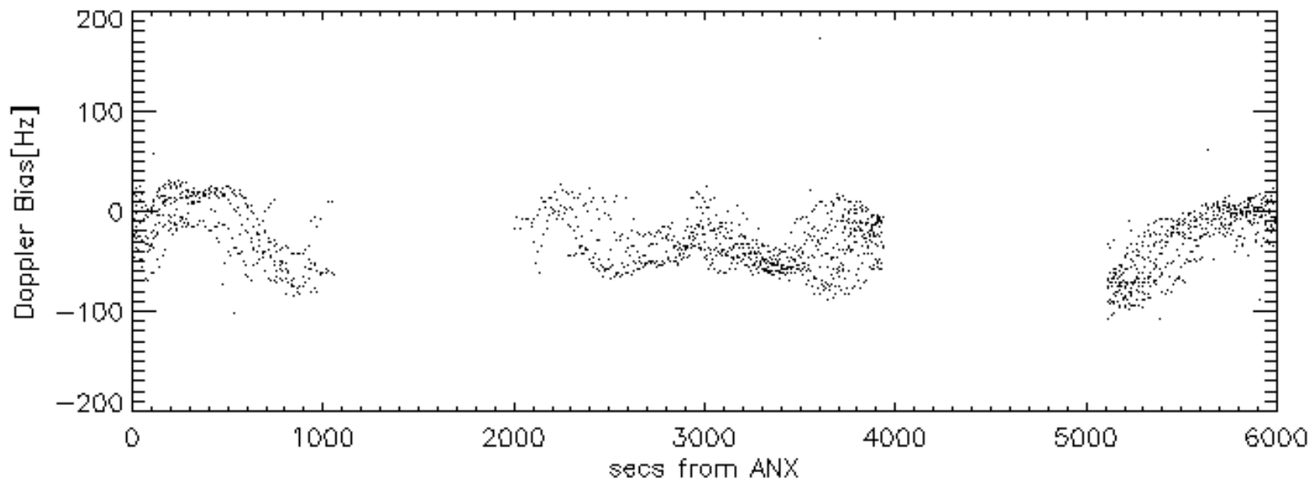

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

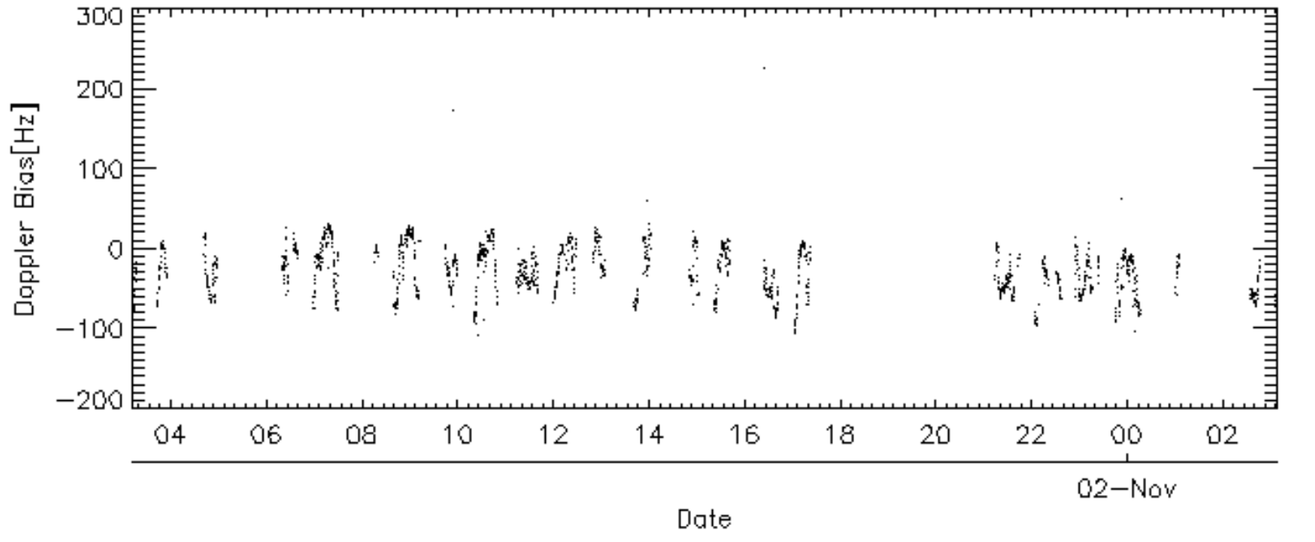

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

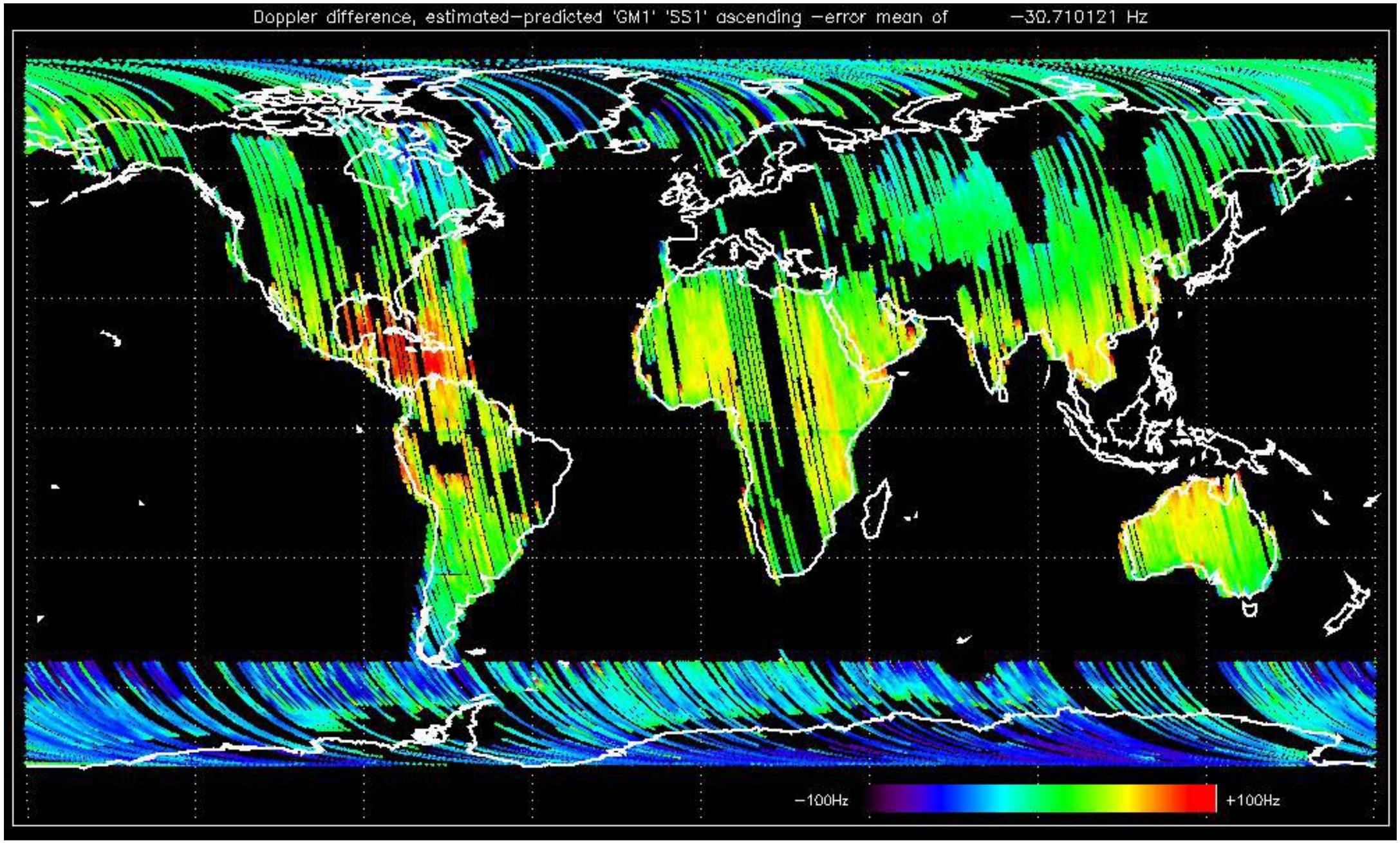

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

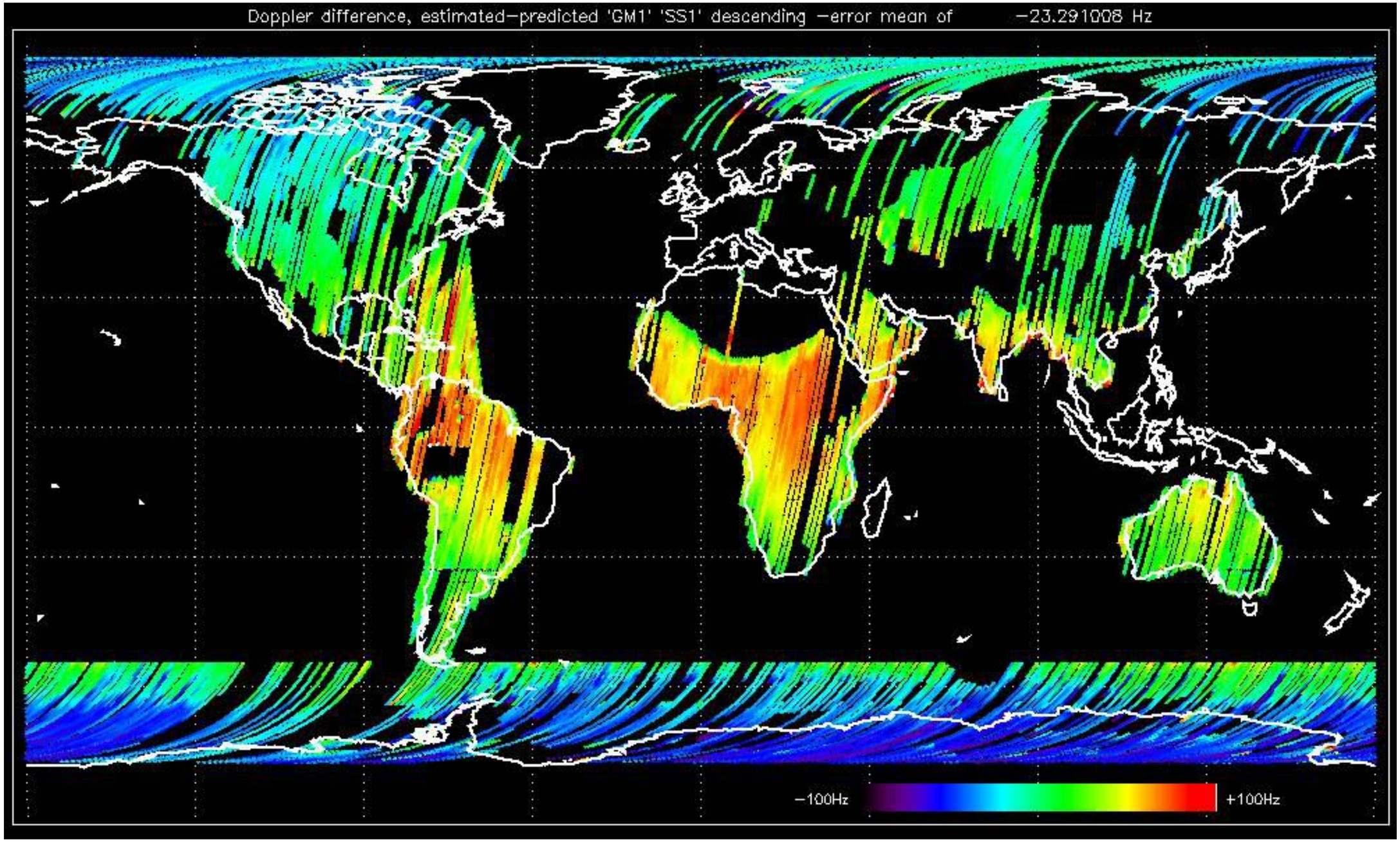

Doppler Bias[Hz]
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
00
02
02−Nov
Date

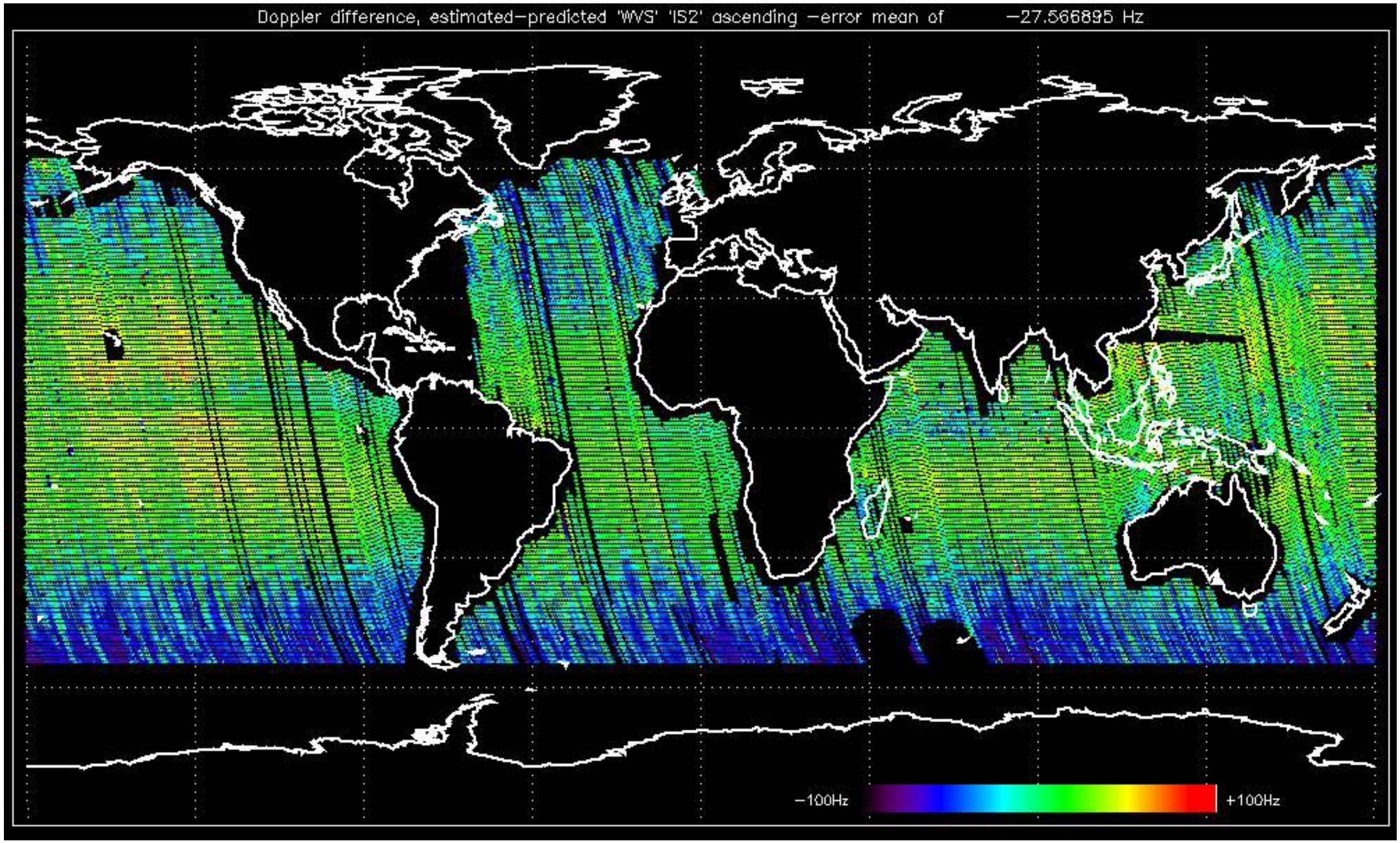

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

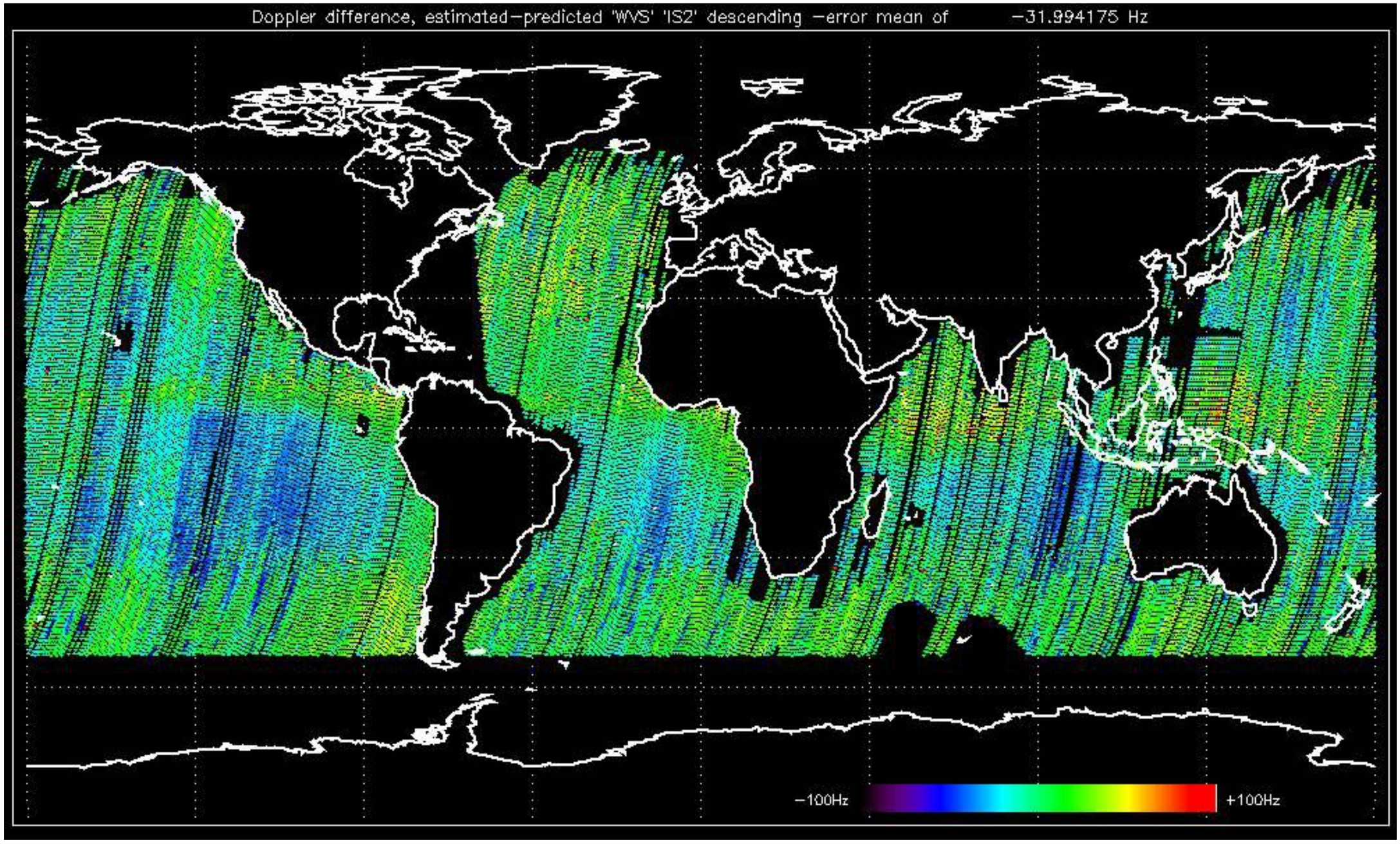

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −30.710121 Hz
−100Hz
+100Hz

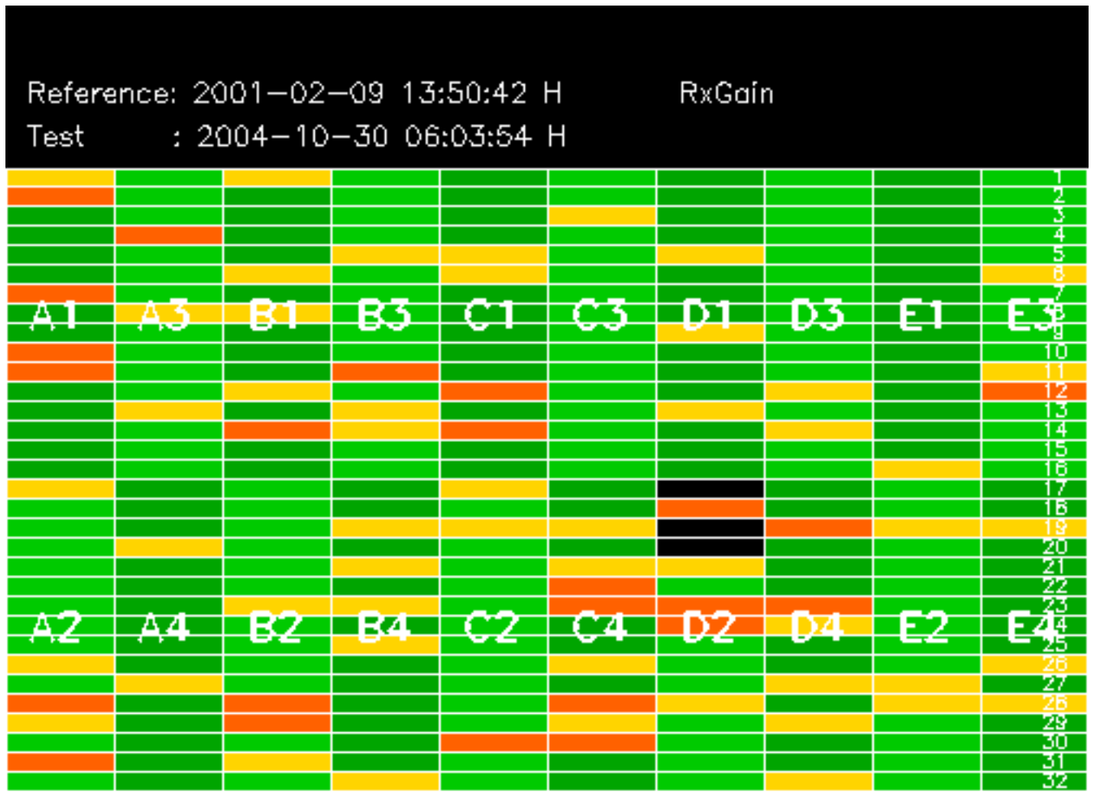

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −23.291008 Hz
−100Hz
+100Hz

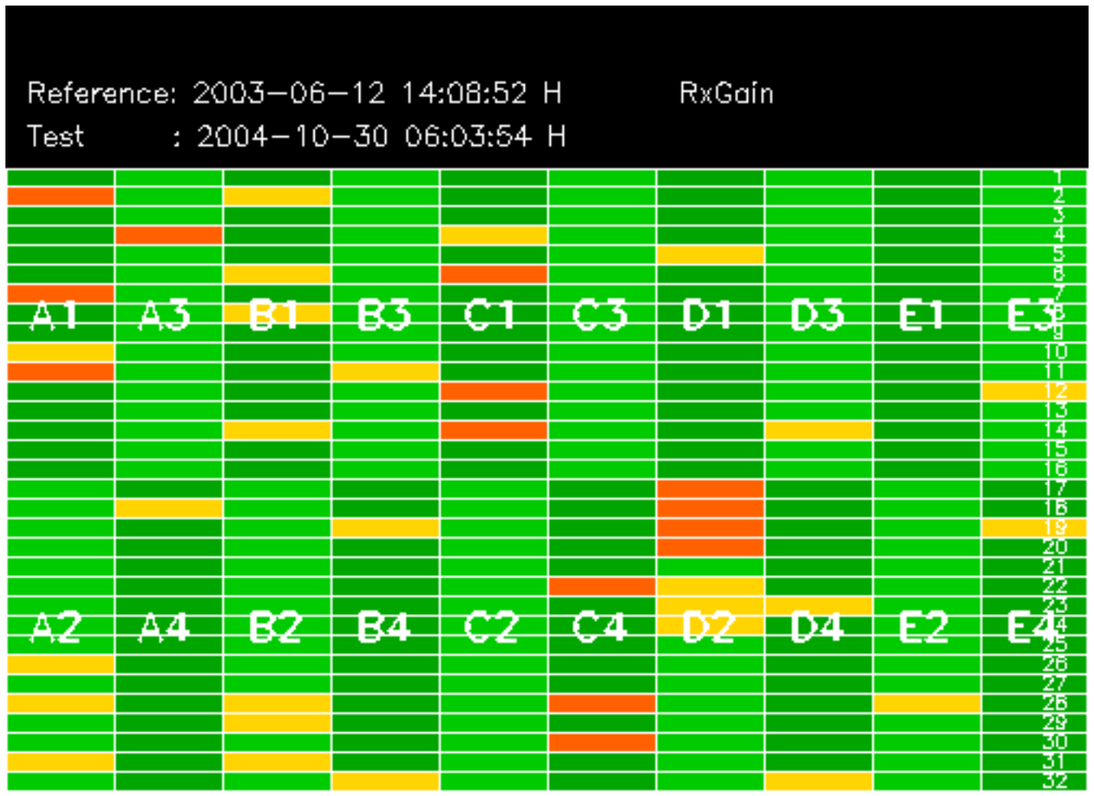

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −27.566895 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −31.994175 Hz
−100Hz
+100Hz

The MS mode provides an internal health check on an individual module basis.
The purpose of this mode is to identify to identify any malfunctionning modules and
to identify modules for which calibration offsets are to be applied.
No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2004-10-30 06:03:54 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2003-06-12 14:08:52 H
Test : 2004-10-30 06:03:54 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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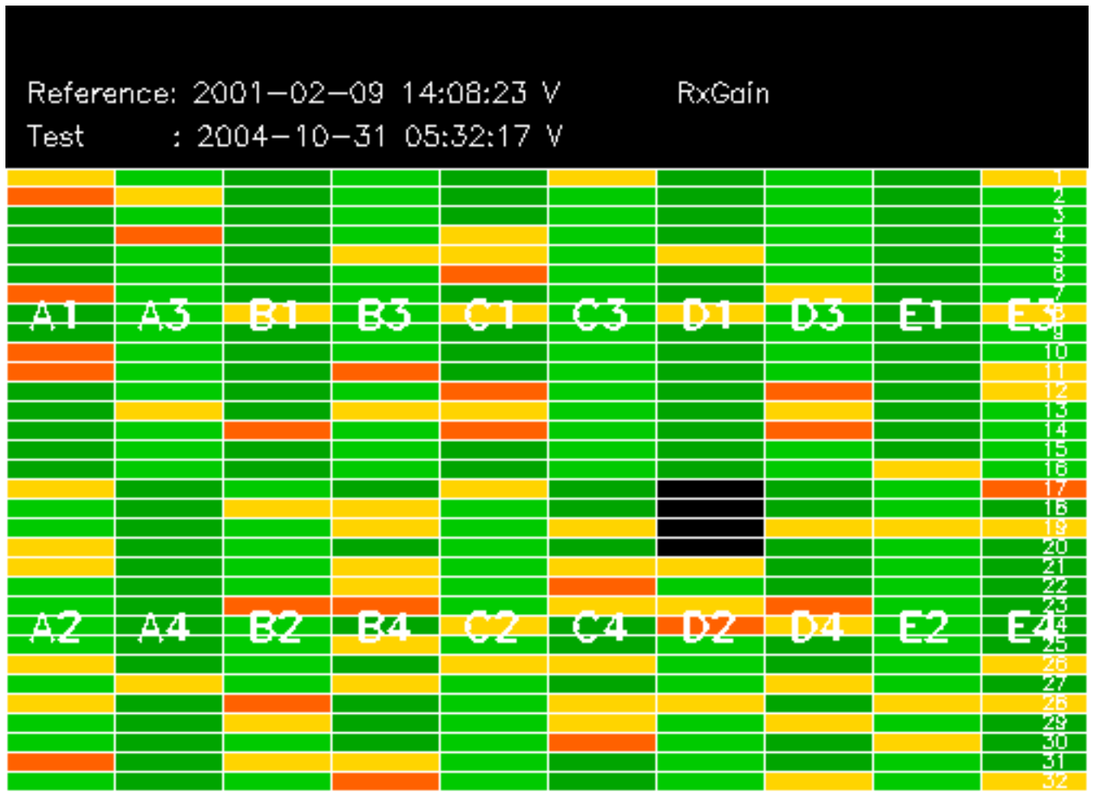
Reference: 2001-02-09 14:08:23 V
Test : 2004-10-31 05:32:17 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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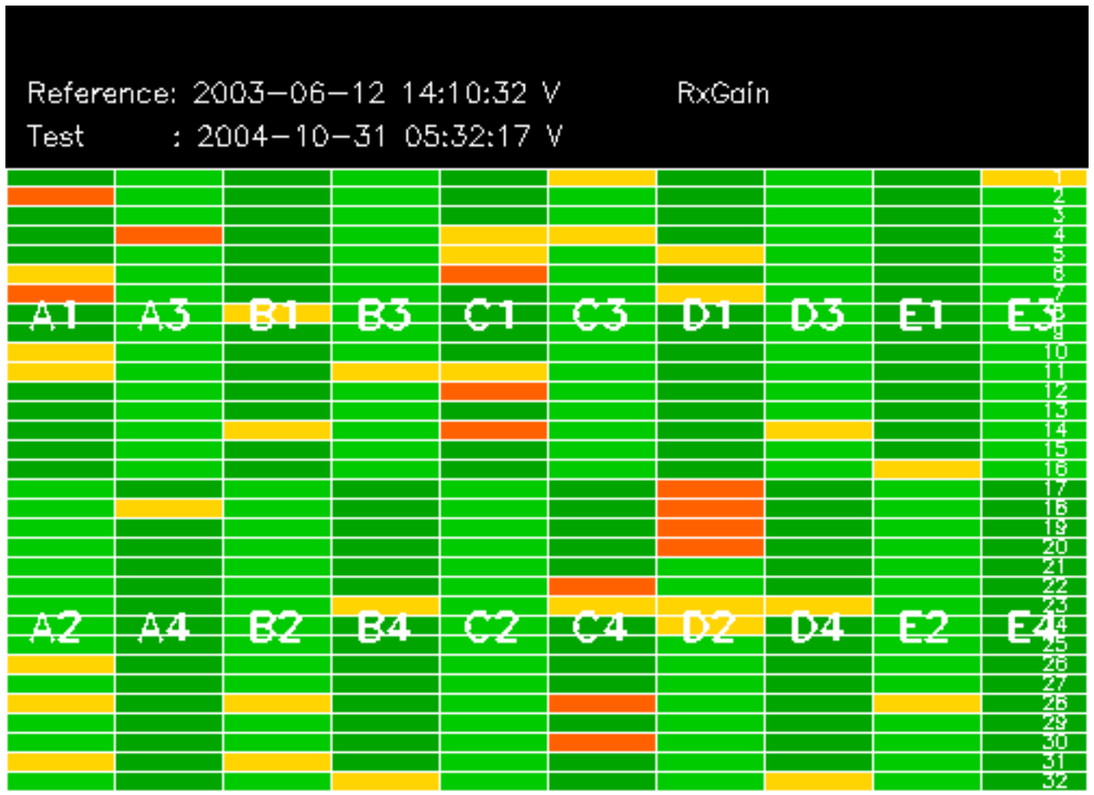
Reference: 2003-06-12 14:10:32 V
Test : 2004-10-31 05:32:17 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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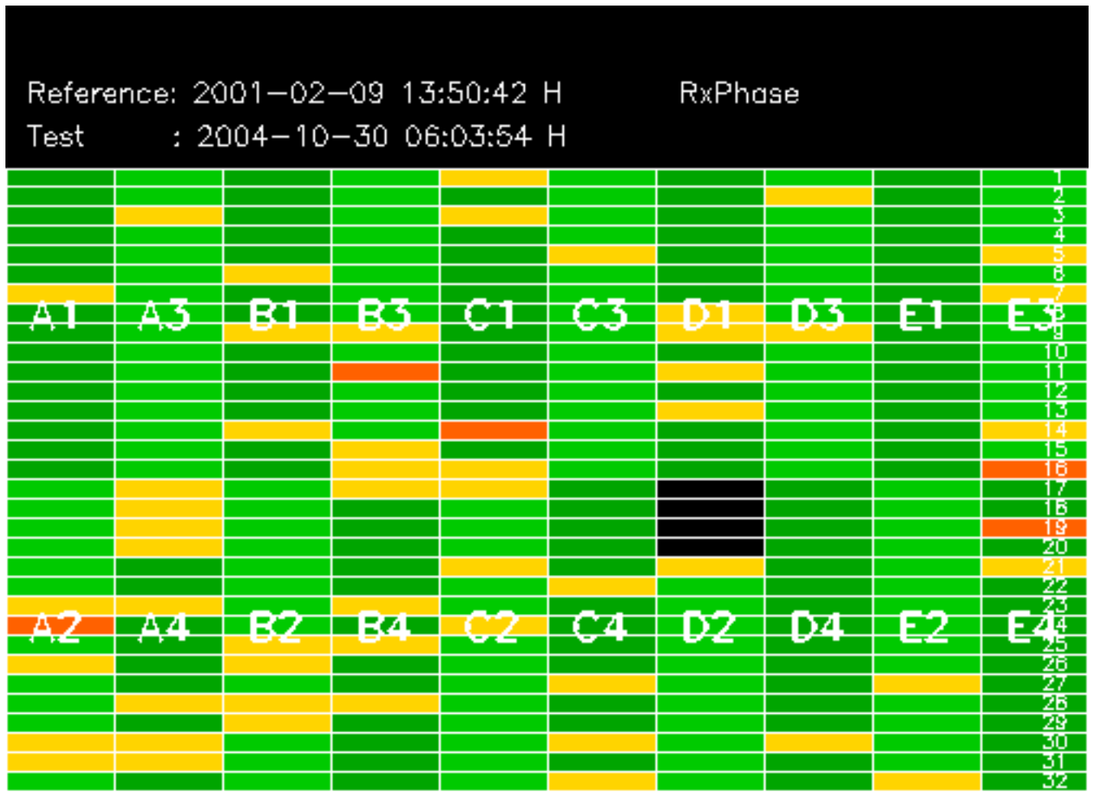
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2004-10-30 06:03:54 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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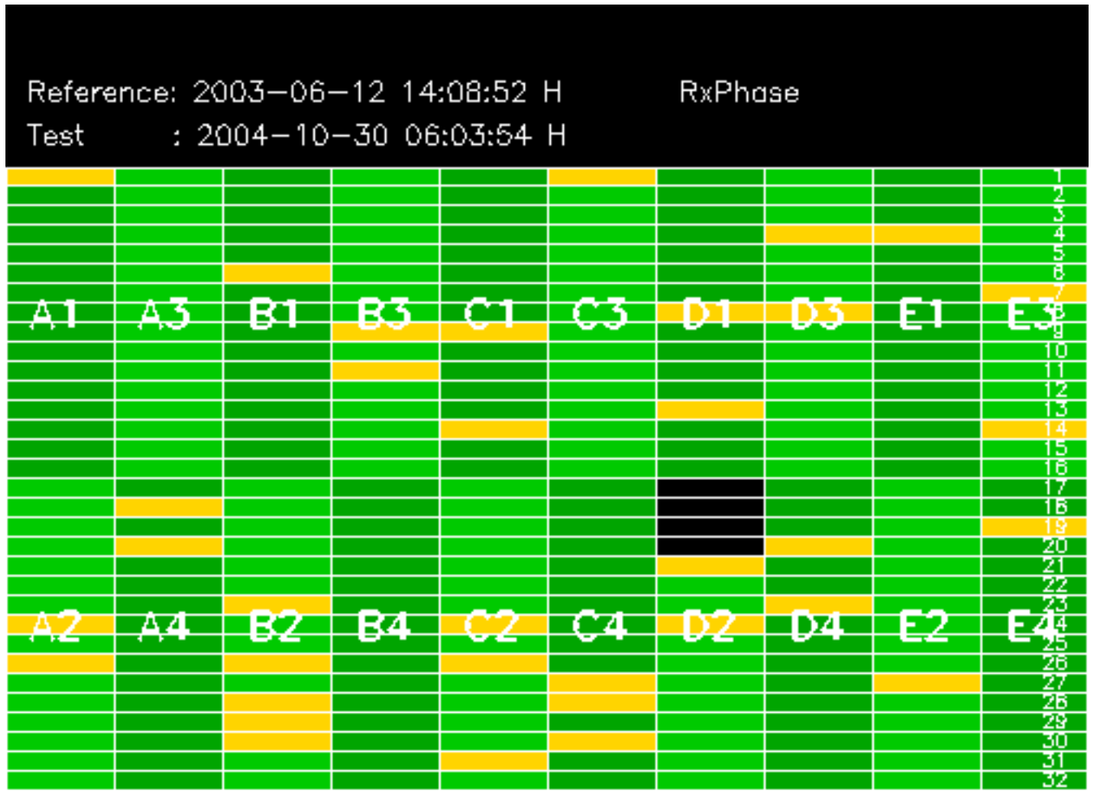
Reference: 2003-06-12 14:08:52 H
Test : 2004-10-30 06:03:54 H
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
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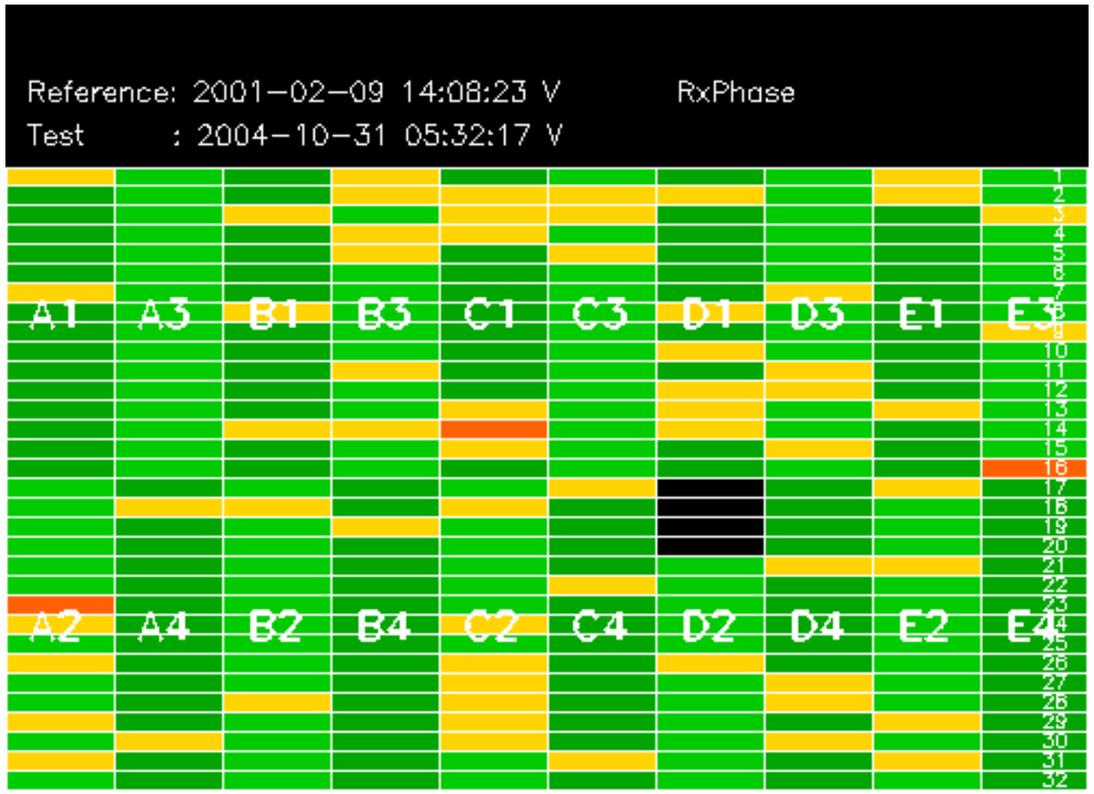
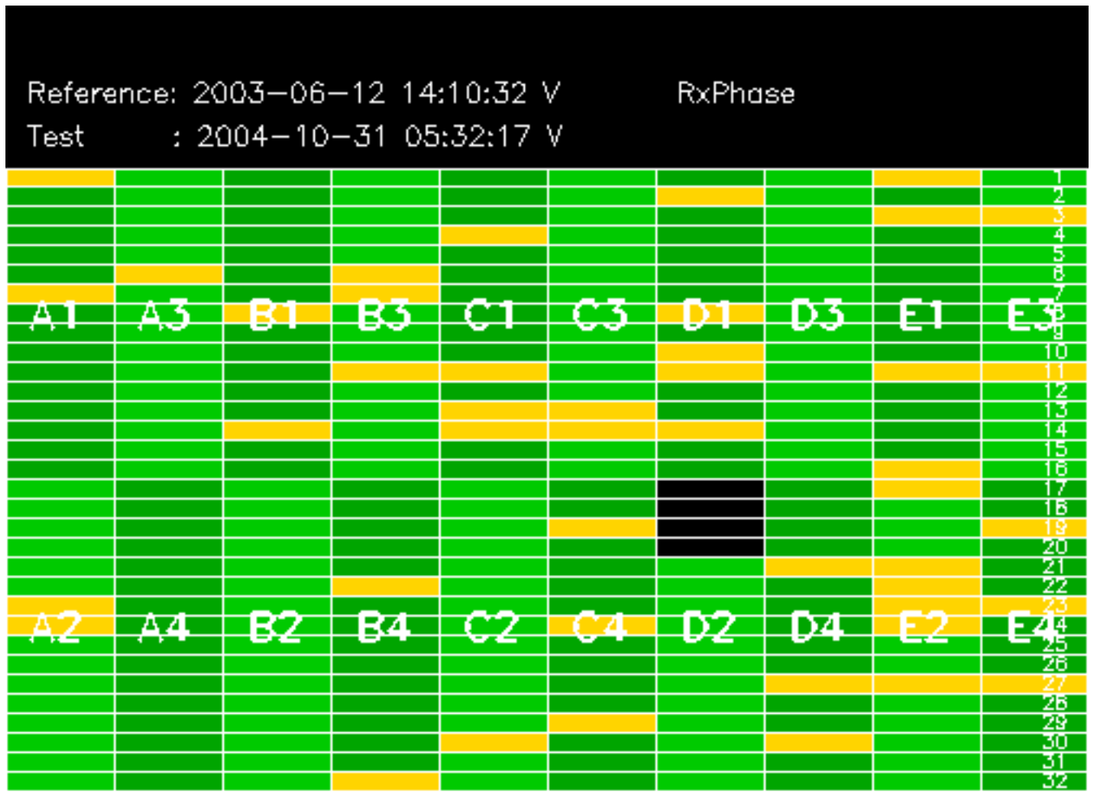
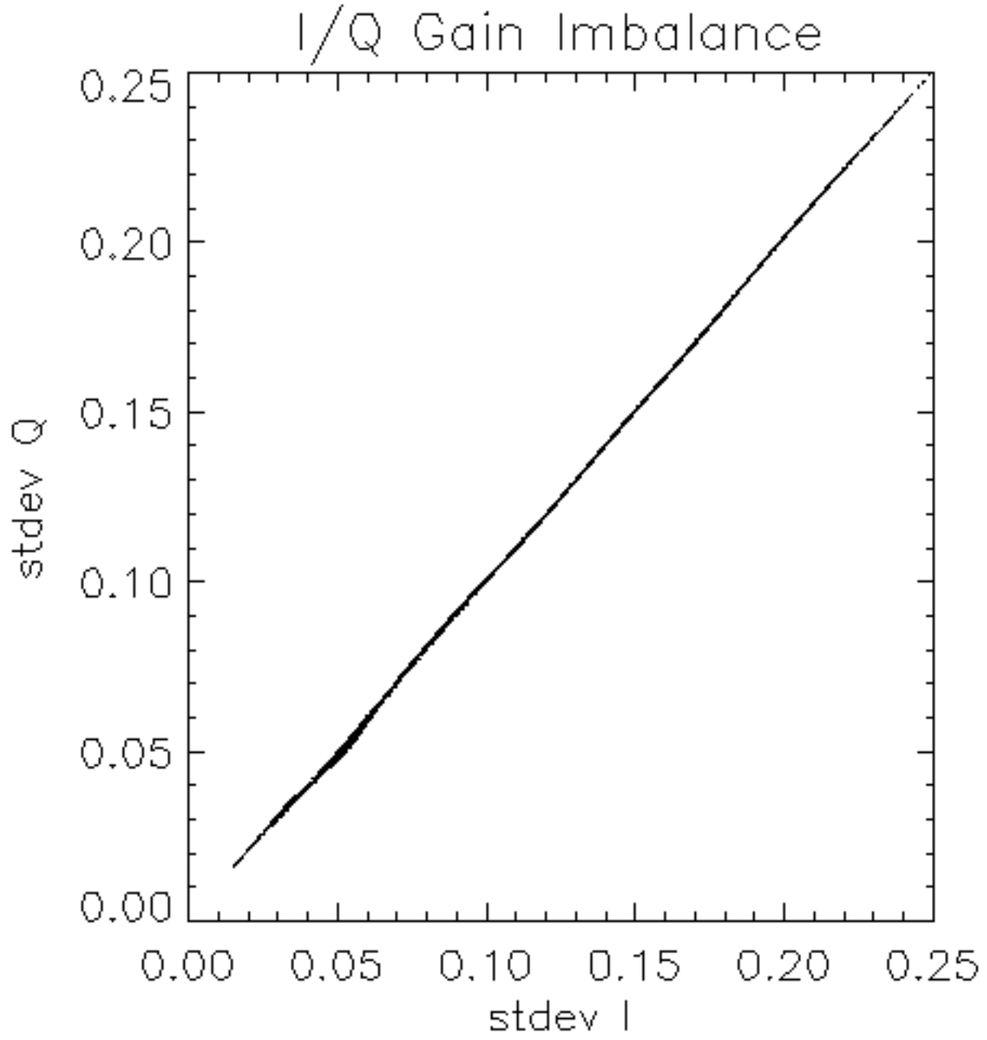
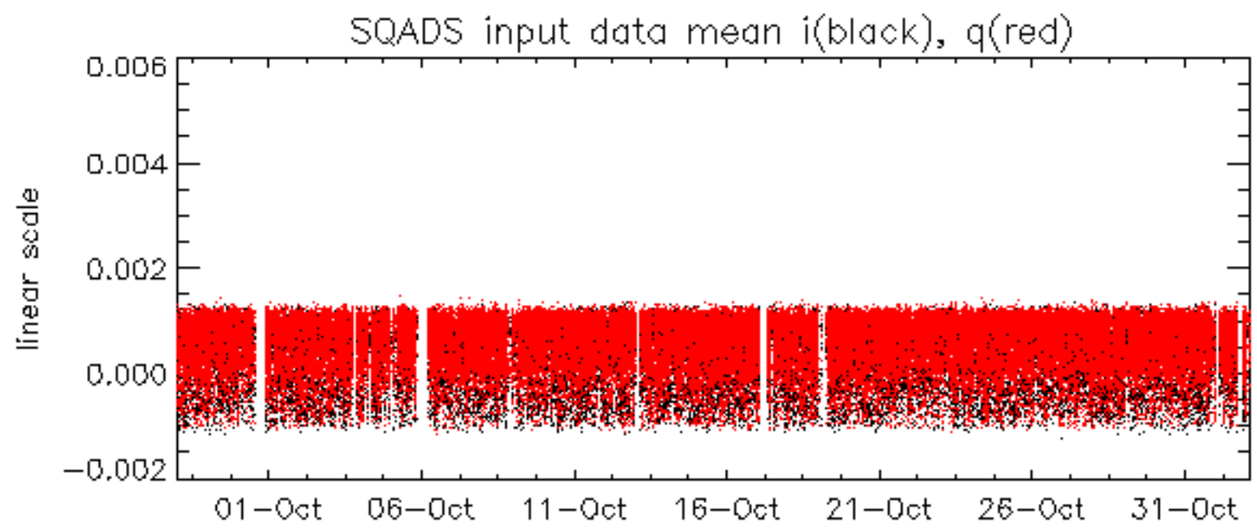
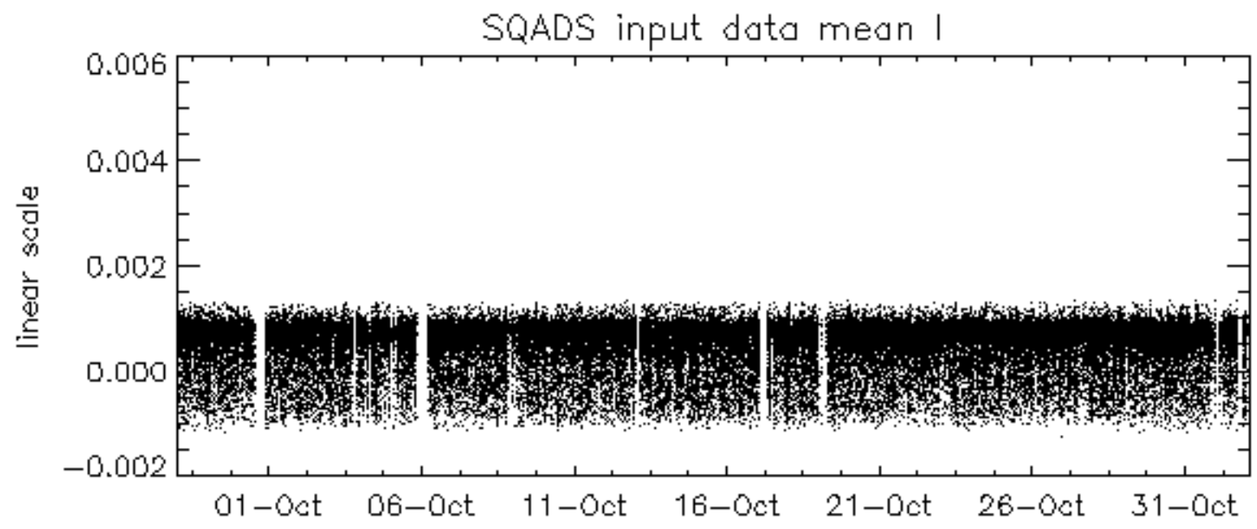
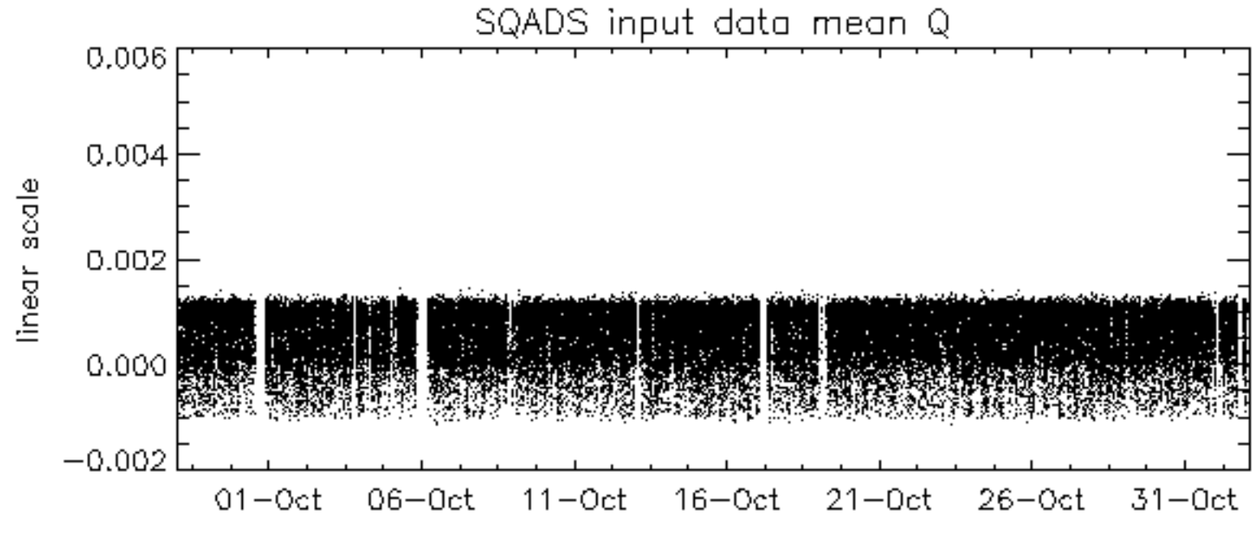

Reference: 2001-02-09 14:08:23 V
Test : 2004-10-31 05:32:17 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

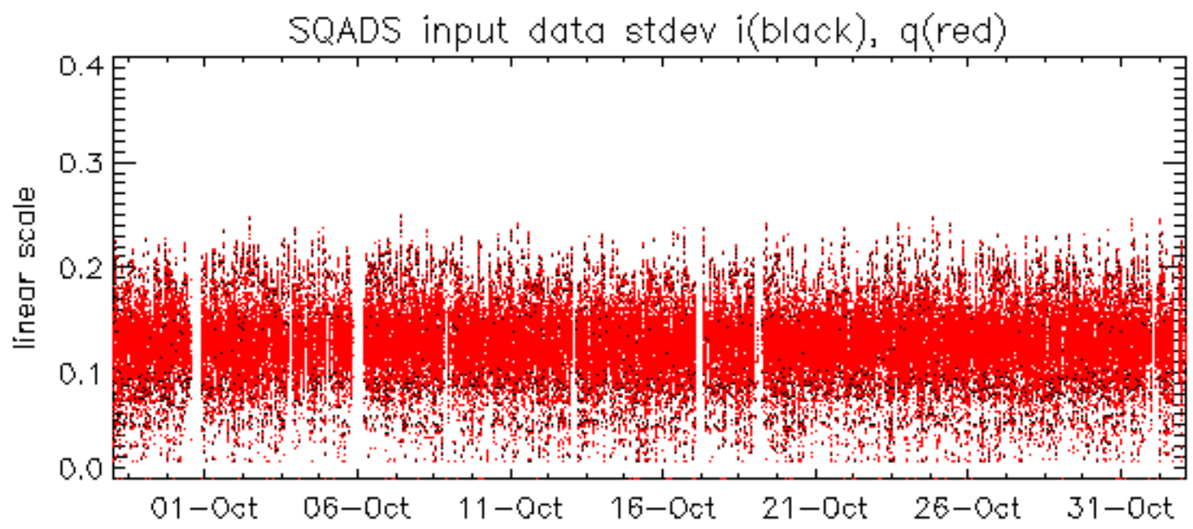

Reference: 2003-06-12 14:10:32 V
Test : 2004-10-31 05:32:17 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

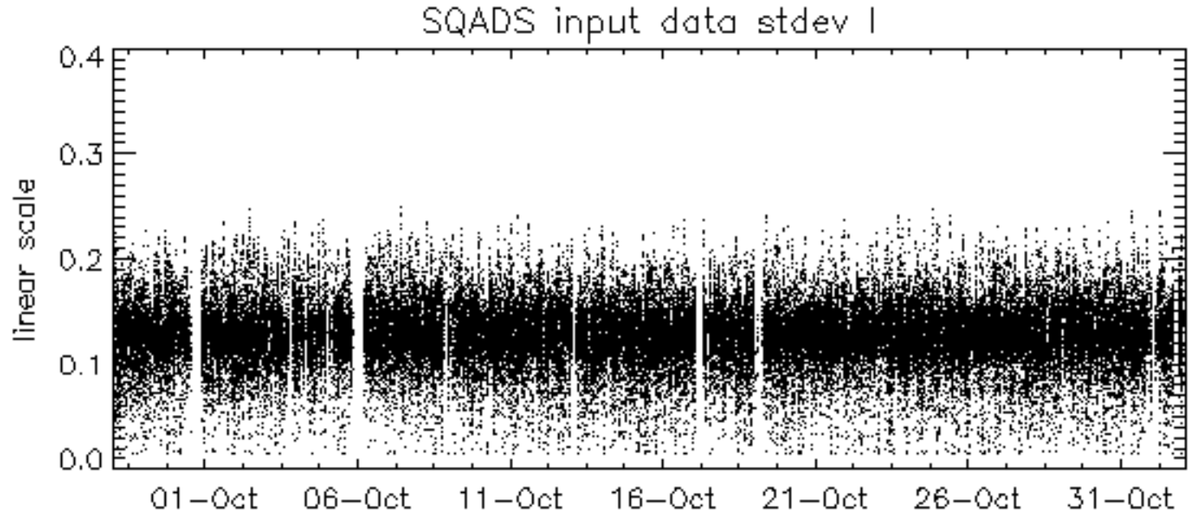

I/Q Gain Imbalance
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00
0.05
0.10
0.15
0.20
0.25
stdev I

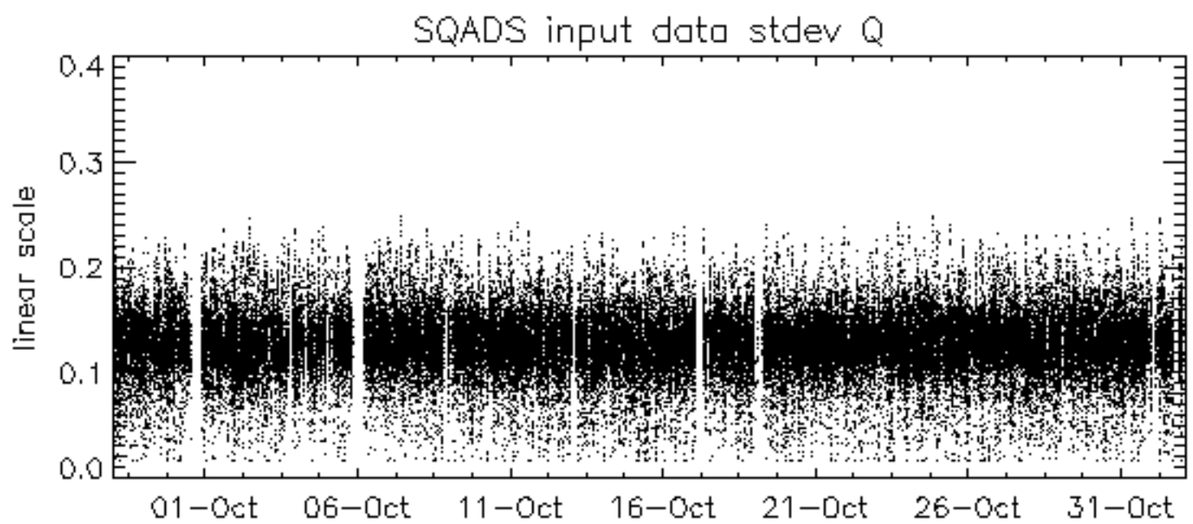

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct
31−Oct

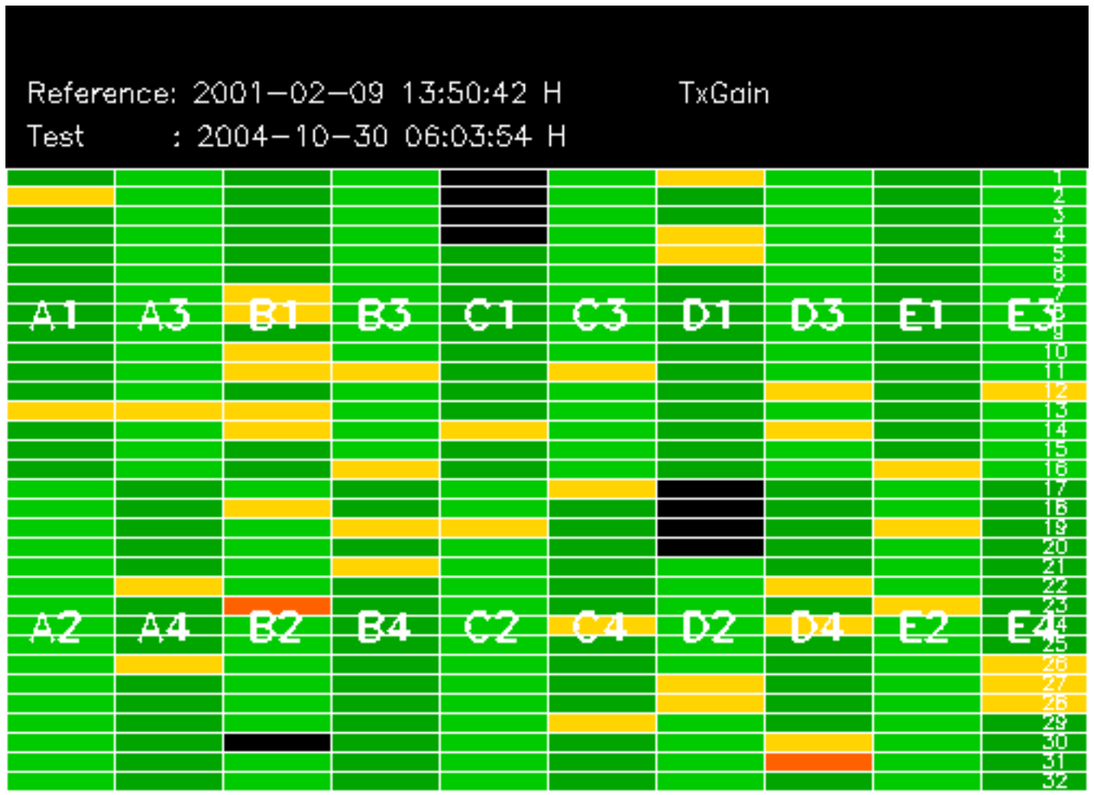

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct
31−Oct

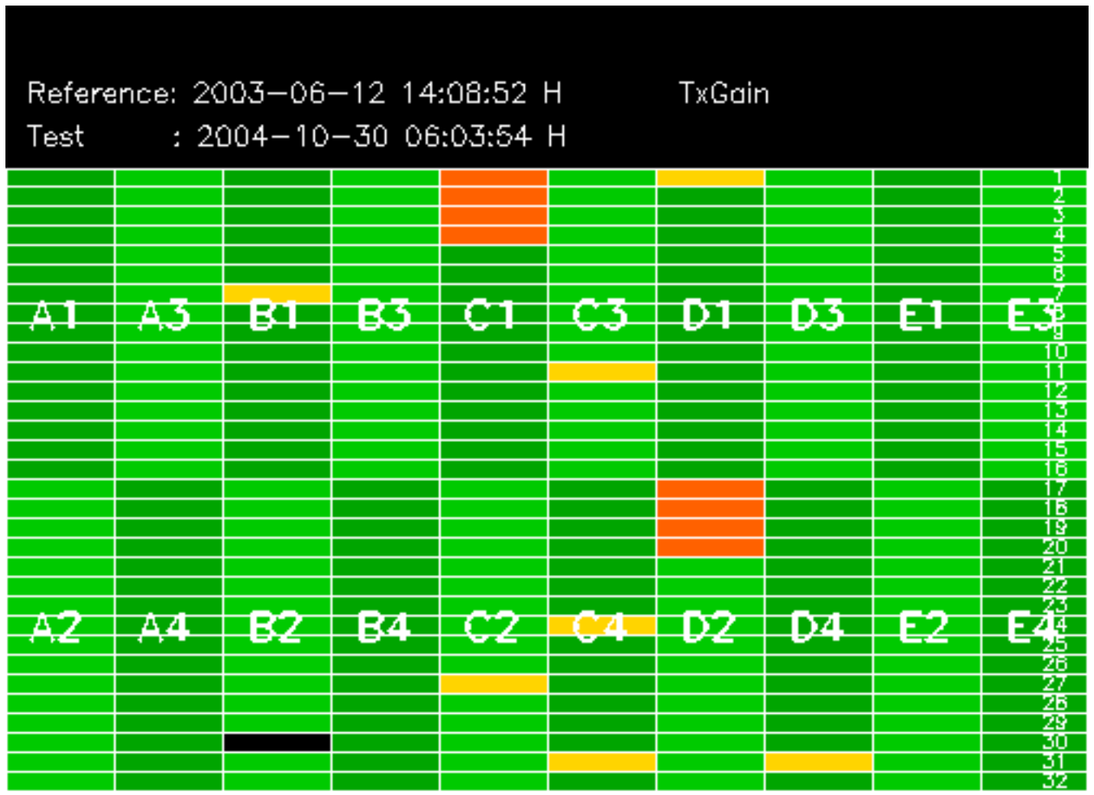

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct
31−Oct


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2004-10-30 06:03:54 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2003-06-12 14:08:52 H
Test : 2004-10-30 06:03:54 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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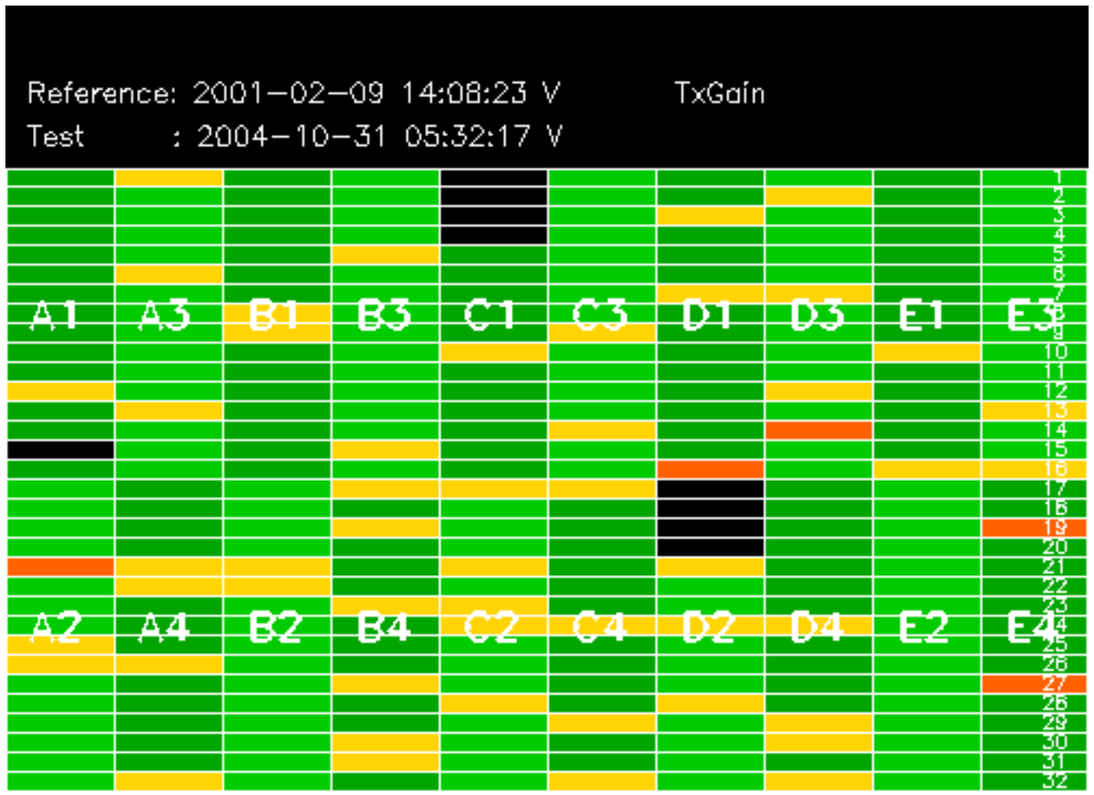
Reference: 2001-02-09 14:08:23 V
Test : 2004-10-31 05:32:17 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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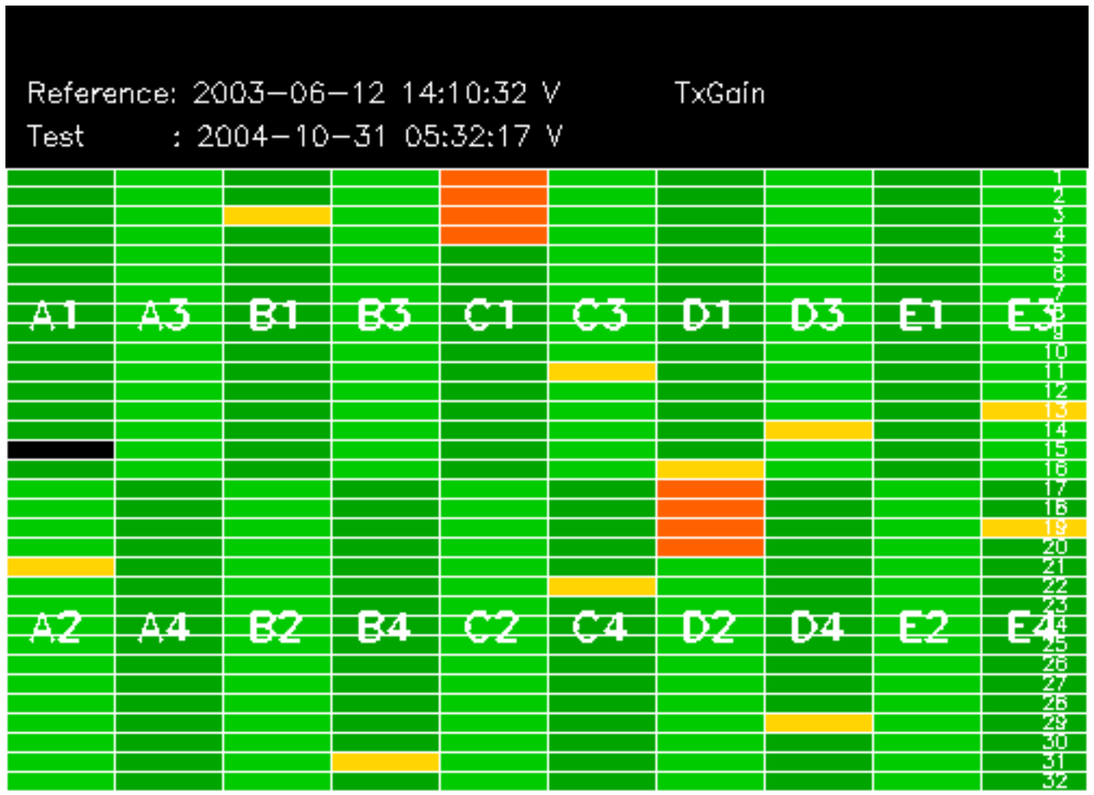
Reference: 2003-06-12 14:10:32 V
Test : 2004-10-31 05:32:17 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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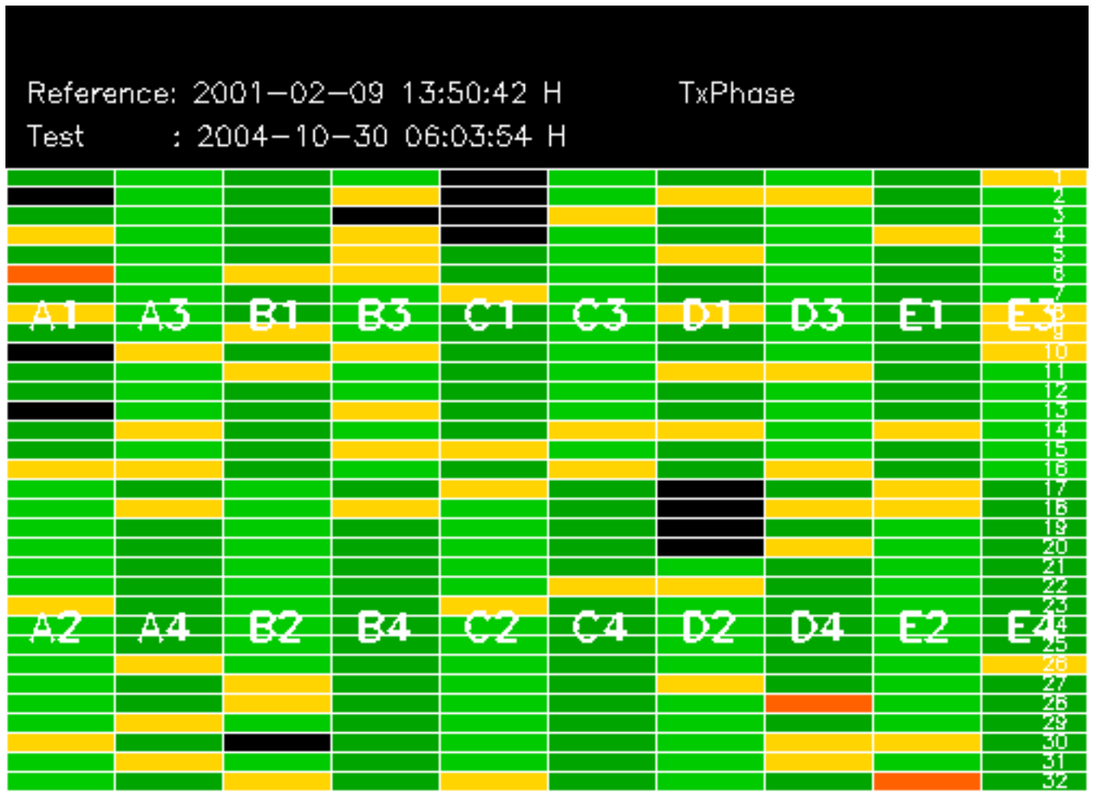
Reference: 2001-02-09 13:50:42 H
TxPhase
Test : 2004-10-30 06:03:54 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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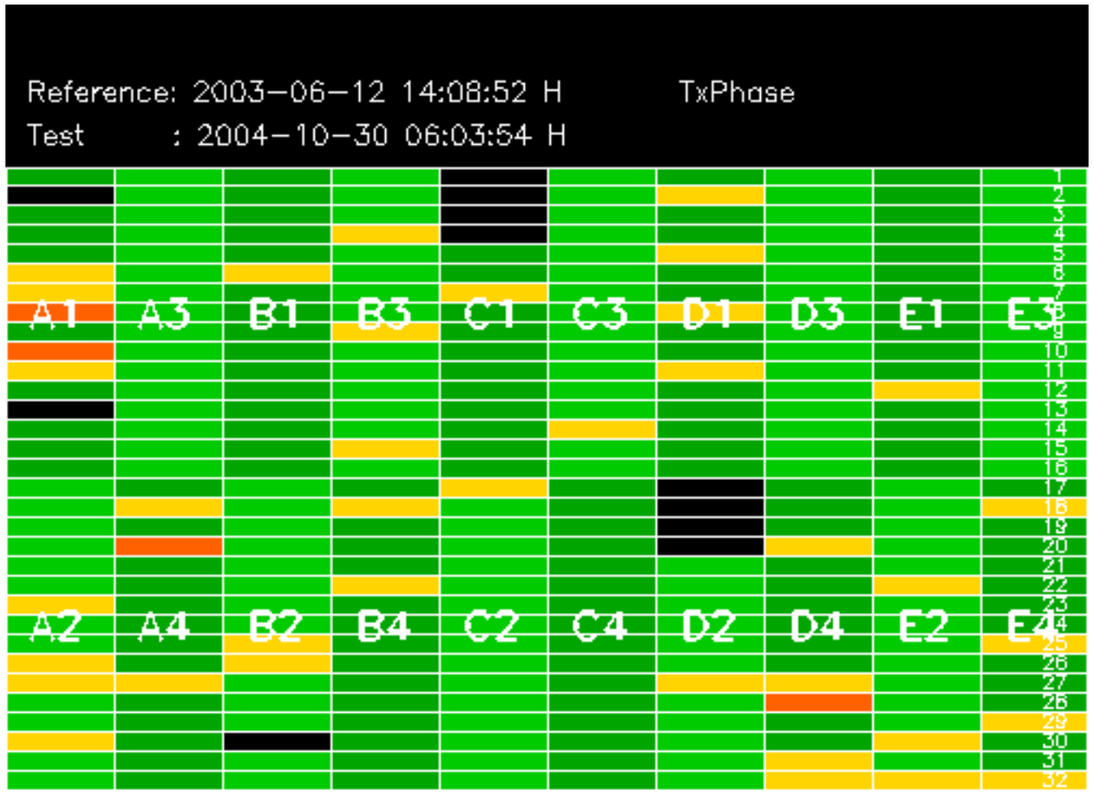
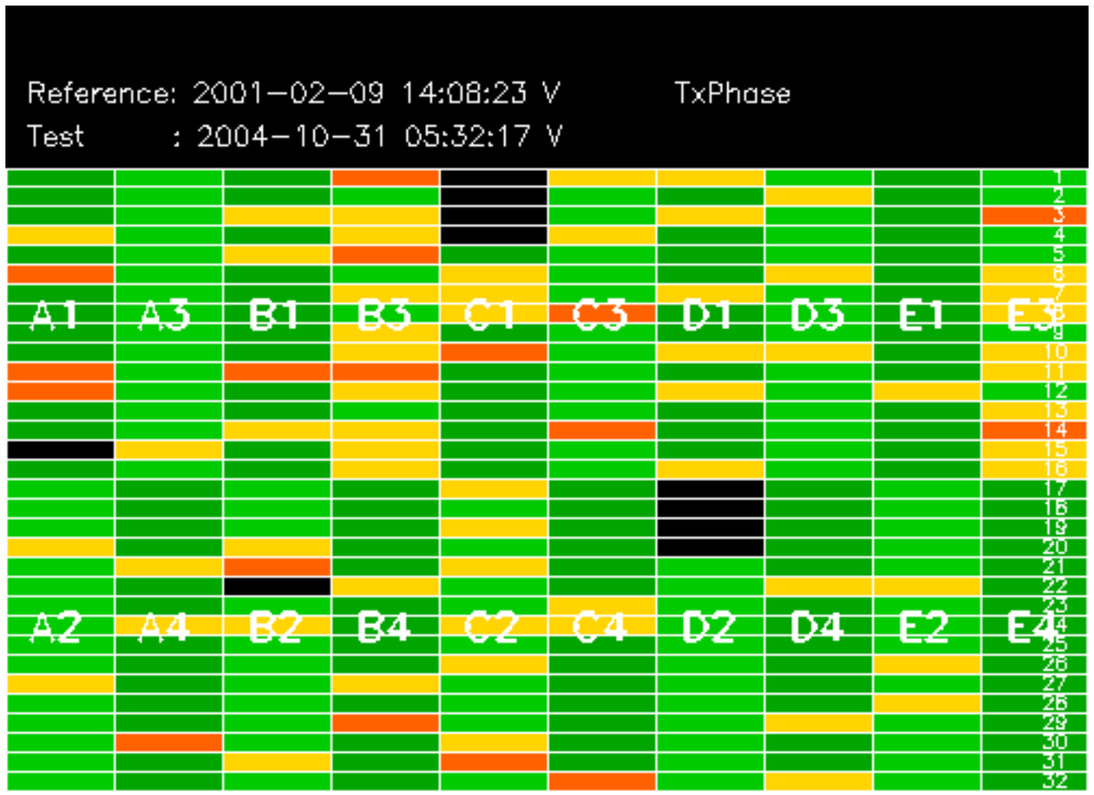
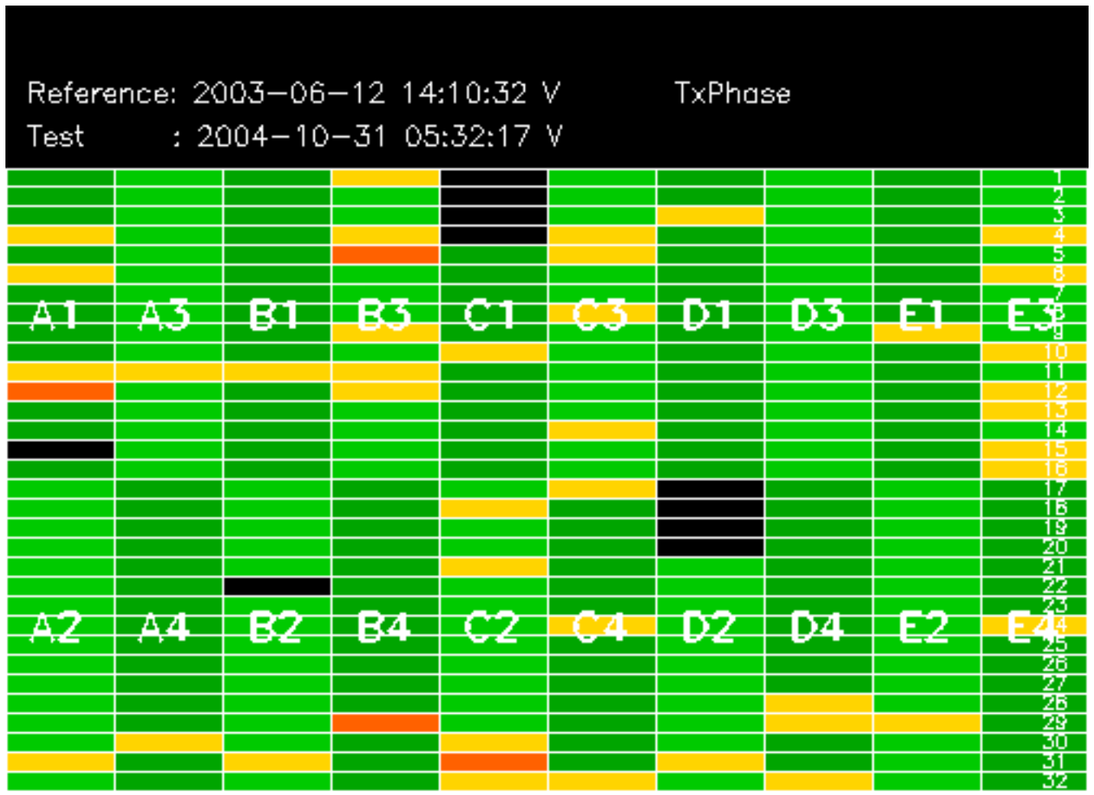

Reference: 2003-06-12 14:08:52 H
Test : 2004-10-30 06:03:54 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2004-10-31 05:32:17 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2003-06-12 14:10:32 V
Test : 2004-10-31 05:32:17 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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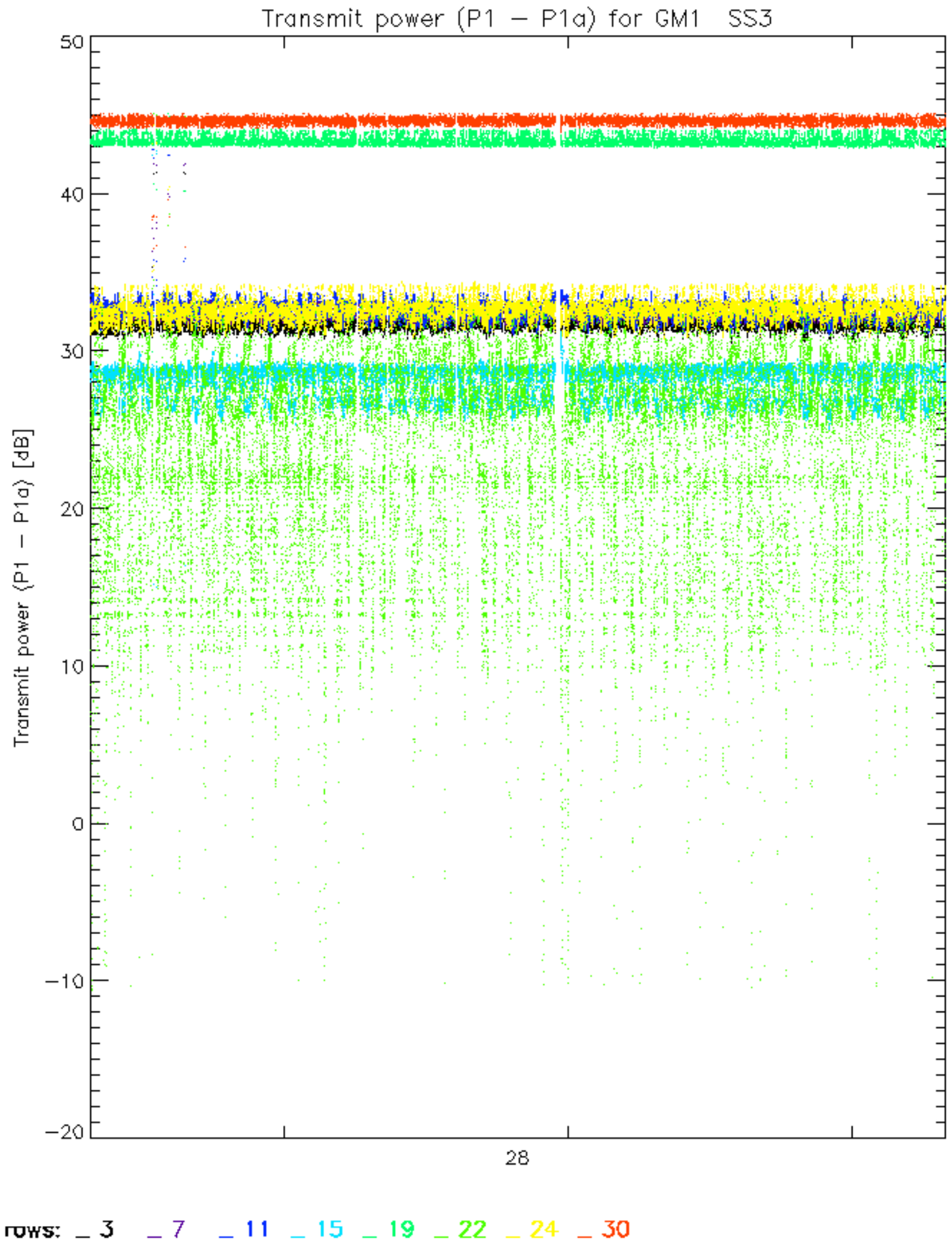
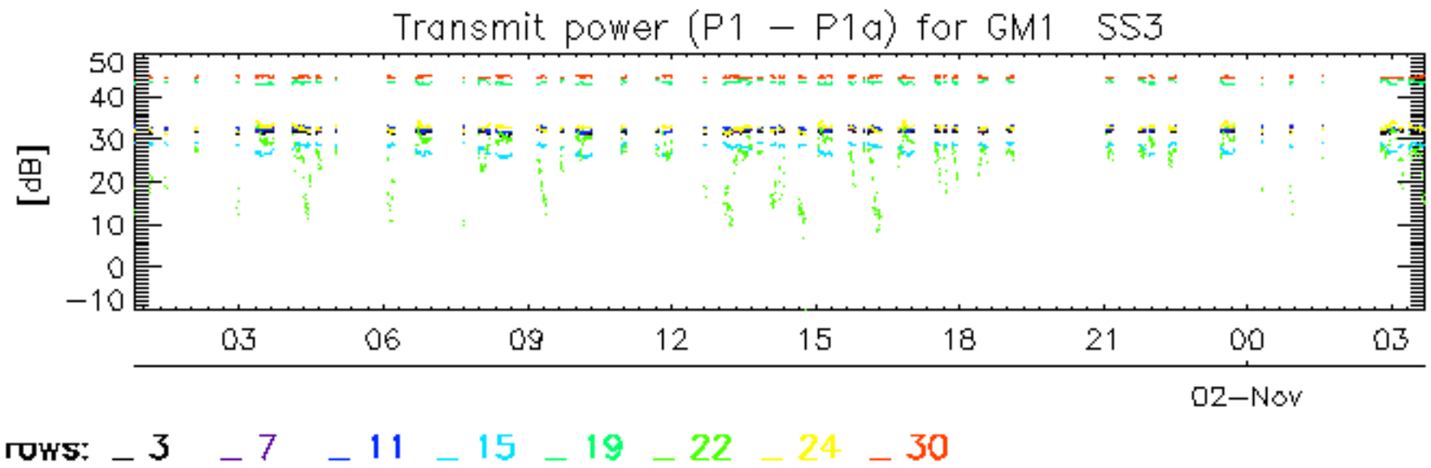
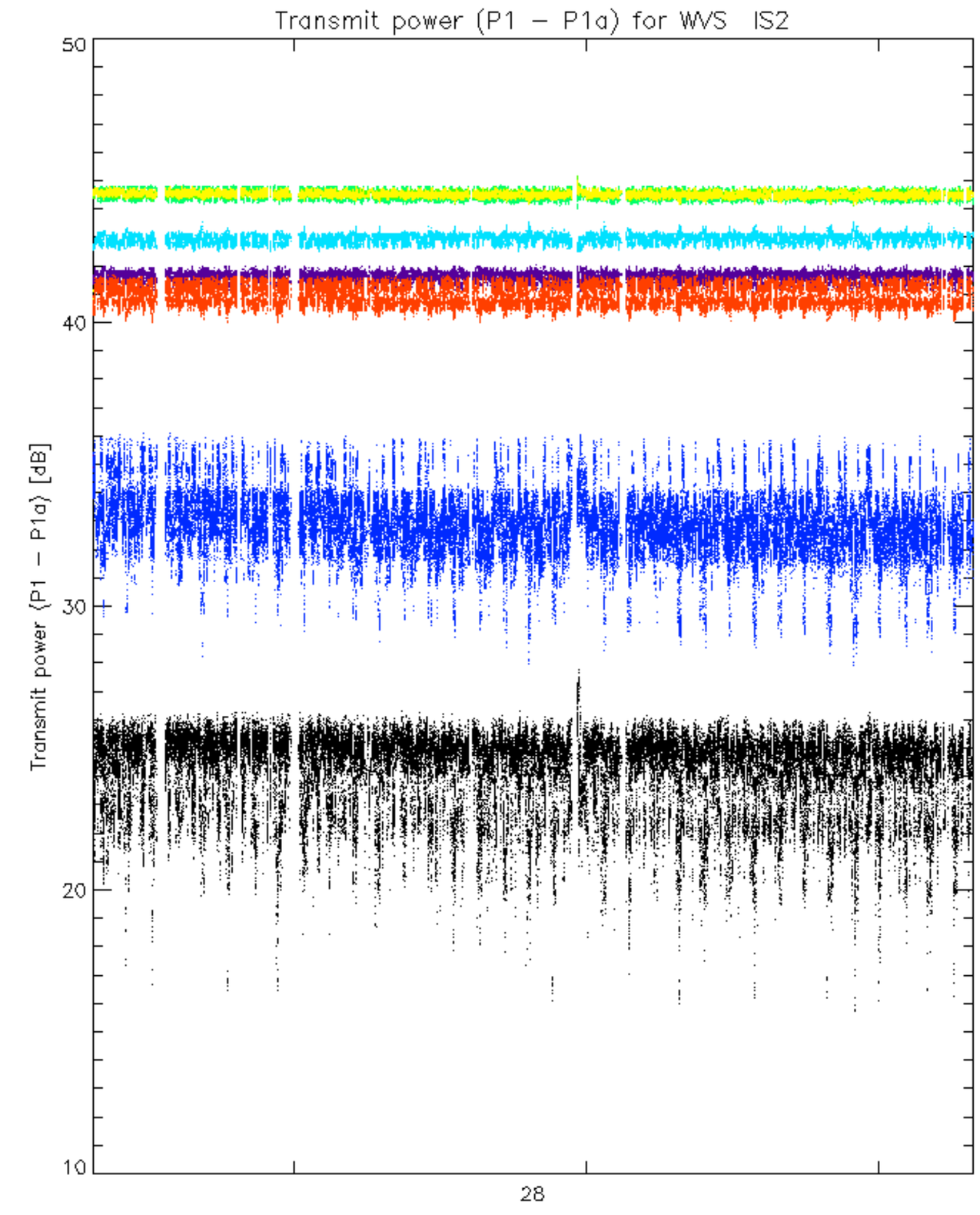
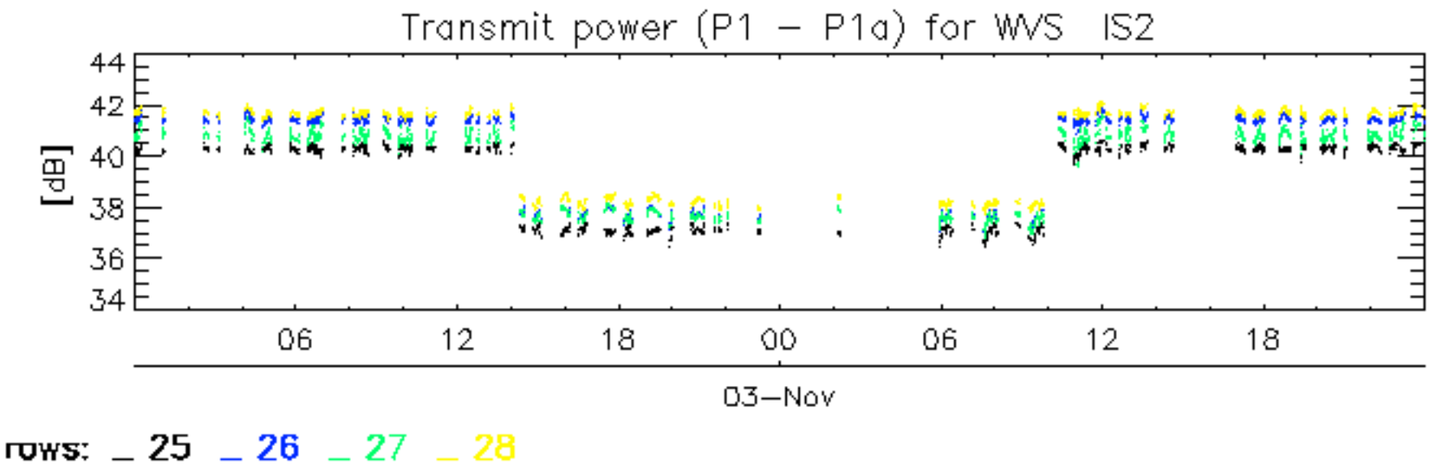

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
−20
28
rows: 3 7 11 15 19 22 24 30


Transmit power (P1 – P1a) for GM1 SS3
[dB]
50
40
30
20
10
0
−10
03
06
09
12
15
18
21
00
03
02–Nov
rows: 3 7 11 15 19 22 24 30


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
28
rows: 3 7 11 15 19 22 24 30


Transmit power (P1 – P1a) for WVS IS2
[dB]
44
42
40
38
36
34
06
12
18
00
06
12
18
03–Nov
rows: _ 25 _ 26 _ 27 _ 28

ASAR ANTENNA reset due to tile E2 transmit power drop that began on 02-NOV-2004 14:17:25 UTC
From 03 Nov 2004 09:59:30.000 UTC (Orbit = 14004) to 03 Nov 2004 10:04:58.000 UTC (Orbit = 14004)