# PRELIMINARY REPORT OF 061129

### last update on Wed Nov 29 16:39:29 GMT 2006



## 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 2006-11-28 00:00:00 to 2006-11-29 16:39:29**

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

| PDHS-E | | | | | |
|---|---|---|---|---|---|
| **AUXILIARY FILE** | **WVS** | **GM1** | **IMM** | **APM** | **WSM** |
| ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000 | 19 | 24 | 8 | 4 | 13 |
| ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000 | 19 | 24 | 8 | 4 | 13 |
| ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000 | 19 | 24 | 8 | 4 | 13 |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 19 | 24 | 8 | 4 | 13 |

## 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:

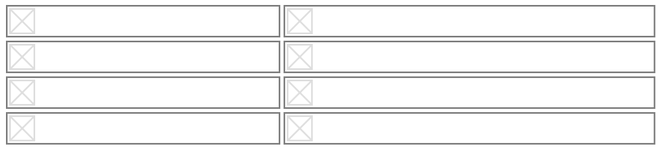
| Polarisation | Start Time |
|---|---|
| V | 20061127 054051 |
| H | 20061128 050914 |

### 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 |
|---|---|



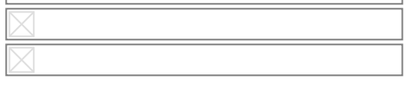
# 4 - Internal calibration Results

No anomalies observed.

## 4.1 - Daily statistics

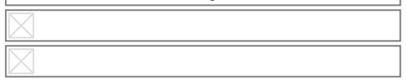
### 4.1.1 - Evolution for WVS

**Evolution of cal pulses for WVS**



### 4.1.2 - Evolution for GM1

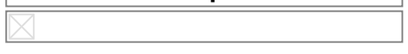
**Evolution of cal pulses for GM1**



## 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 | -3.960221 | 0.008328 | -0.026595 |
| 7 | P1 | -3.153407 | 0.023579 | -0.011120 |
| 11 | P1 | -4.131088 | 0.024788 | 0.004230 |
| 15 | P1 | -6.299335 | 0.014398 | -0.049221 |
| 19 | P1 | -3.611026 | 0.006381 | -0.057690 |
| 22 | P1 | -4.646544 | 0.012786 | -0.019559 |
| 26 | P1 | -3.949872 | 0.010661 | 0.005606 |
| 30 | P1 | -5.865753 | 0.009418 | -0.047441 |
| 3 | P1 | -16.513556 | 0.235696 | -0.103407 |
| 7 | P1 | -17.282598 | 0.175703 | -0.035558 |
| 11 | P1 | -17.173042 | 0.458027 | -0.159856 |
| 15 | P1 | -13.071035 | 0.132703 | -0.027543 |
| 19 | P1 | -14.908098 | 0.090566 | -0.166385 |
| 22 | P1 | -15.861143 | 0.509184 | 0.139838 |
| 26 | P1 | -15.055109 | 0.197131 | 0.067362 |
| 30 | P1 | -17.477634 | 0.473027 | -0.082490 |

**P2 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P2 | -20.842855 | 0.091165 | 0.029365 |
| 7 | P2 | -21.731722 | 0.094076 | -0.008801 |
| 11 | P2 | -15.650301 | 0.102167 | 0.032461 |
| 15 | P2 | -7.124038 | 0.106181 | -0.004710 |
| 19 | P2 | -9.192016 | 0.104241 | 0.004642 |
| 22 | P2 | -18.235798 | 0.096418 | -0.033530 |
| 26 | P2 | -16.553568 | 0.110798 | -0.047344 |
| 30 | P2 | -19.476429 | 0.087984 | -0.000335 |

**P3 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P3 | -8.241633 | 0.008414 | -0.030000 |
| 7 | P3 | -8.241633 | 0.008414 | -0.030000 |
| 11 | P3 | -8.241633 | 0.008414 | -0.030000 |

| | | | | |
|---|---|---|---|---|
| 15 | P3 | -8.241633 | 0.008414 | -0.030000 |
| 19 | P3 | -8.241633 | 0.008414 | -0.030000 |
| 22 | P3 | -8.241633 | 0.008414 | -0.030000 |
| 26 | P3 | -8.241670 | 0.008428 | -0.030179 |
| 30 | P3 | -8.241670 | 0.008428 | -0.030179 |

#### 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 | -3.912850 | 0.052094 | 0.015805 |
| 7 | P1 | -2.519987 | 0.308088 | 0.134736 |
| 11 | P1 | -2.860671 | 0.048635 | 0.050207 |
| 15 | P1 | -3.683973 | 0.055997 | 0.005501 |
| 19 | P1 | -3.523370 | 0.020613 | -0.036481 |
| 22 | P1 | -5.034508 | 0.024167 | 0.022150 |
| 26 | P1 | -6.002564 | 0.038680 | -0.044223 |
| 30 | P1 | -5.321677 | 0.049431 | -0.040661 |
| 3 | P1 | -11.727521 | 0.138547 | 0.000206 |
| 7 | P1 | -10.063593 | 0.418356 | 0.104922 |
| 11 | P1 | -10.328184 | 0.162761 | 0.054234 |
| 15 | P1 | -10.751674 | 0.211314 | 0.130884 |
| 19 | P1 | -15.692660 | 0.138755 | -0.089306 |
| 22 | P1 | -21.465231 | 1.455788 | -0.357896 |
| 26 | P1 | -16.067486 | 0.321672 | -0.006588 |
| 30 | P1 | -17.889956 | 0.408643 | 0.061866 |

#### P2 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P2 | -16.458372 | 0.129887 | -0.045103 |
| 7 | P2 | -22.214252 | 0.456602 | -0.130202 |
| 11 | P2 | -10.937084 | 0.137118 | -0.027209 |
| 15 | P2 | -4.971663 | 0.183015 | -0.049499 |
| 19 | P2 | -6.953866 | 0.218821 | -0.022640 |
| 22 | P2 | -8.263838 | 0.215243 | 0.022502 |
| 26 | P2 | -24.314692 | 0.333588 | -0.119241 |
| 30 | P2 | -21.943277 | 0.216040 | -0.034718 |

**P3 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P3 | -8.088153 | 0.003297 | -0.029982 |
| 7 | P3 | -8.088224 | 0.003284 | -0.029937 |
| 11 | P3 | -8.088274 | 0.003293 | -0.030027 |
| 15 | P3 | -8.088150 | 0.003290 | -0.030091 |
| 19 | P3 | -8.088202 | 0.003295 | -0.029925 |
| 22 | P3 | -8.088139 | 0.003296 | -0.030177 |
| 26 | P3 | -8.088312 | 0.003292 | -0.030440 |
| 30 | P3 | -8.088337 | 0.003295 | -0.029897 |

### 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 | 0.000545161 |
| | stdev | 1.78691e-07 |
| MEAN Q | mean | 0.000522721 |
| | stdev | 2.20646e-07 |

### 5.2 - Input stdev I/Q

| channel | stat | DSS-B |
|---|---|---|
| STDEV I | mean | 0.136118 |
| | stdev | 0.00111060 |
| STDEV Q | mean | 0.136477 |
| | stdev | 0.00112764 |



### 5.3 - Gain imbalance I/Q



## 6 - Telemetry analysis

Summary of analysis for the last 3 days 2006112[789]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

| Filename | num_gaps | num_missing_lines |
|---|---|---|
| ASA_GM1_1PNPDK20061127_154433_000009242053_00197_24800_9420.N1 | 0 | 36 |





## 7 - Doppler Analysis

## 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

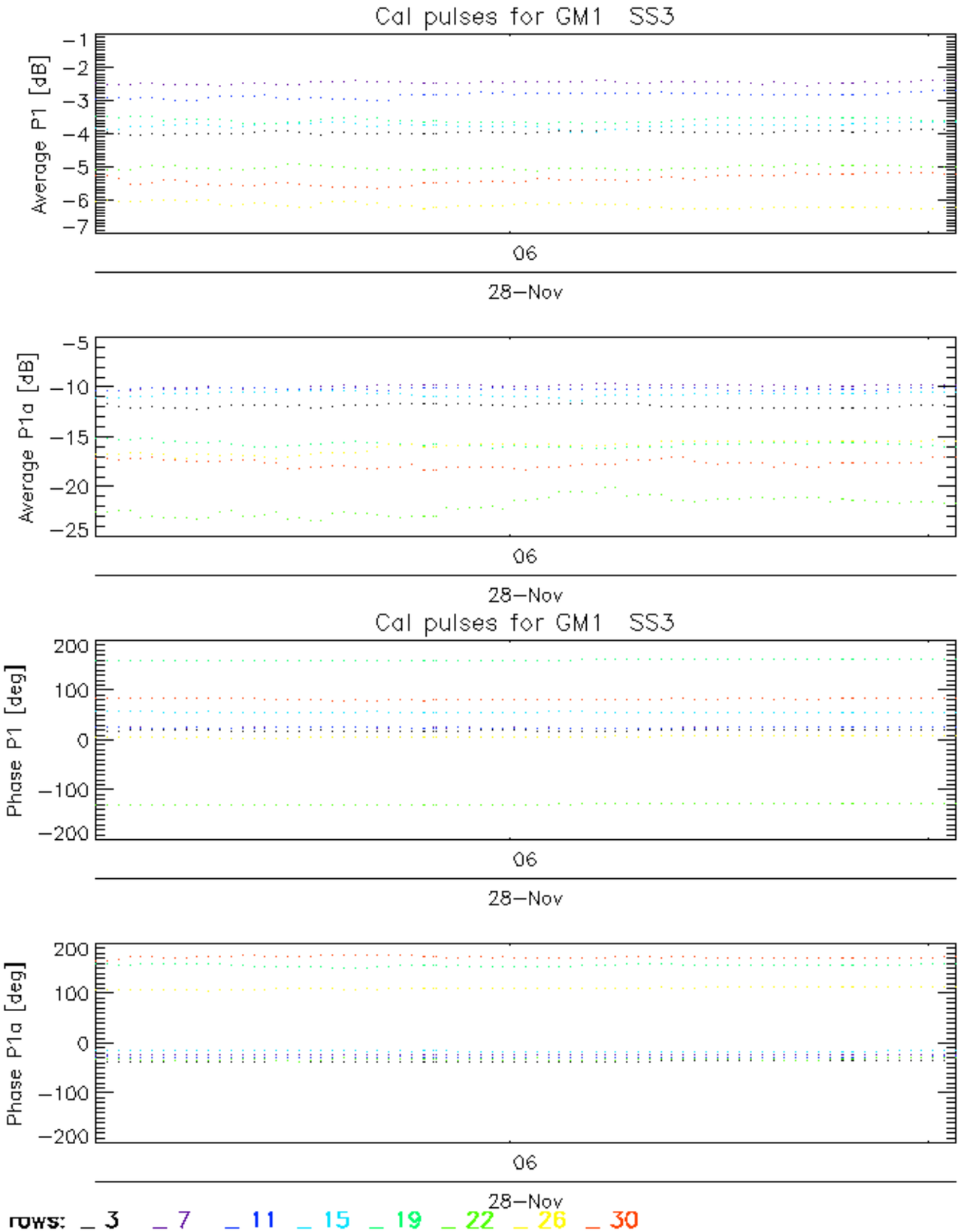
| Evolution of unbiased Doppler error (Real - Expected) |
| --- |
| ☒ |
| Acsending |
| ☒ |
| Descending |

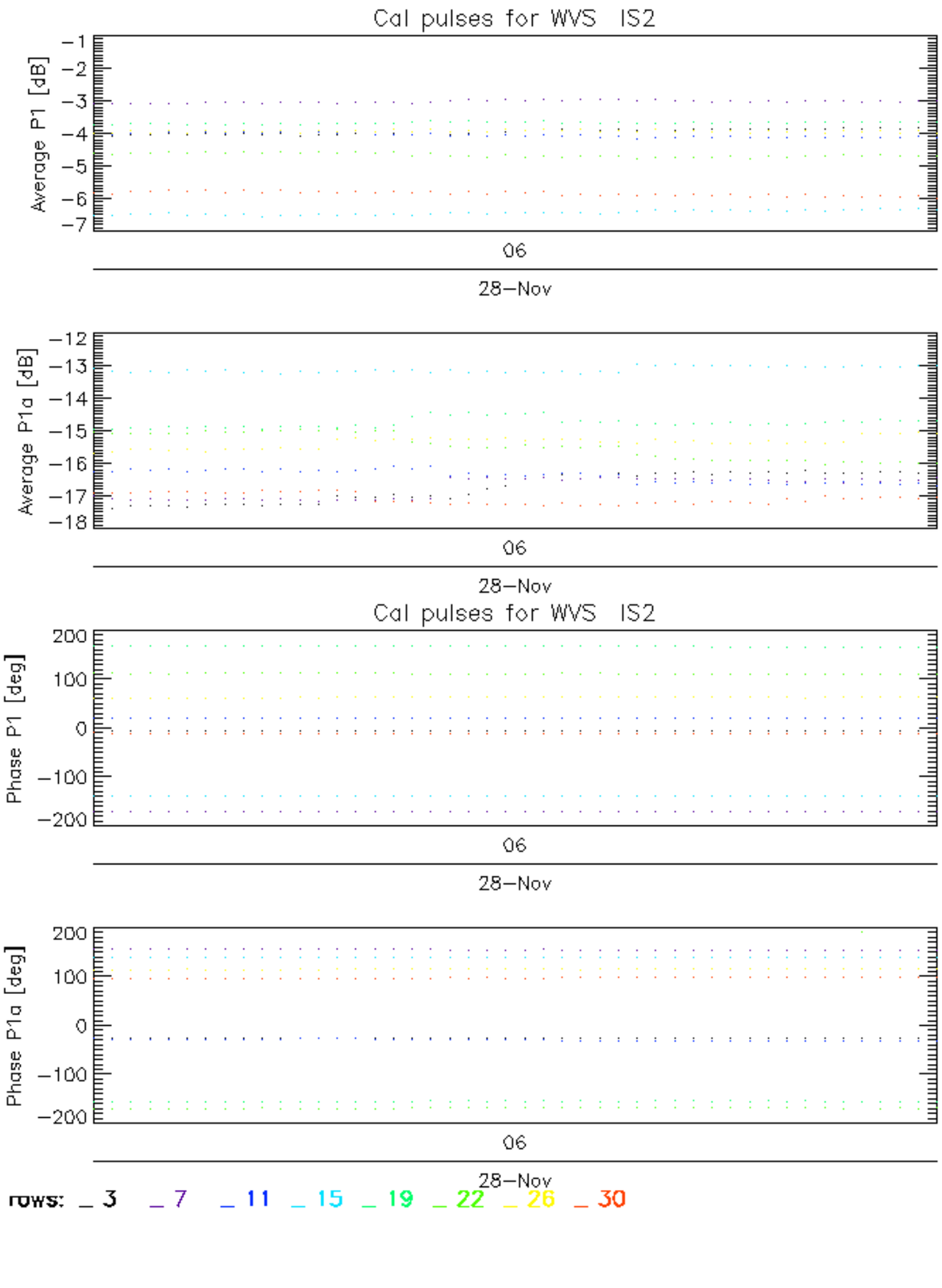
## 7.5 - Absolute Doppler for GM1

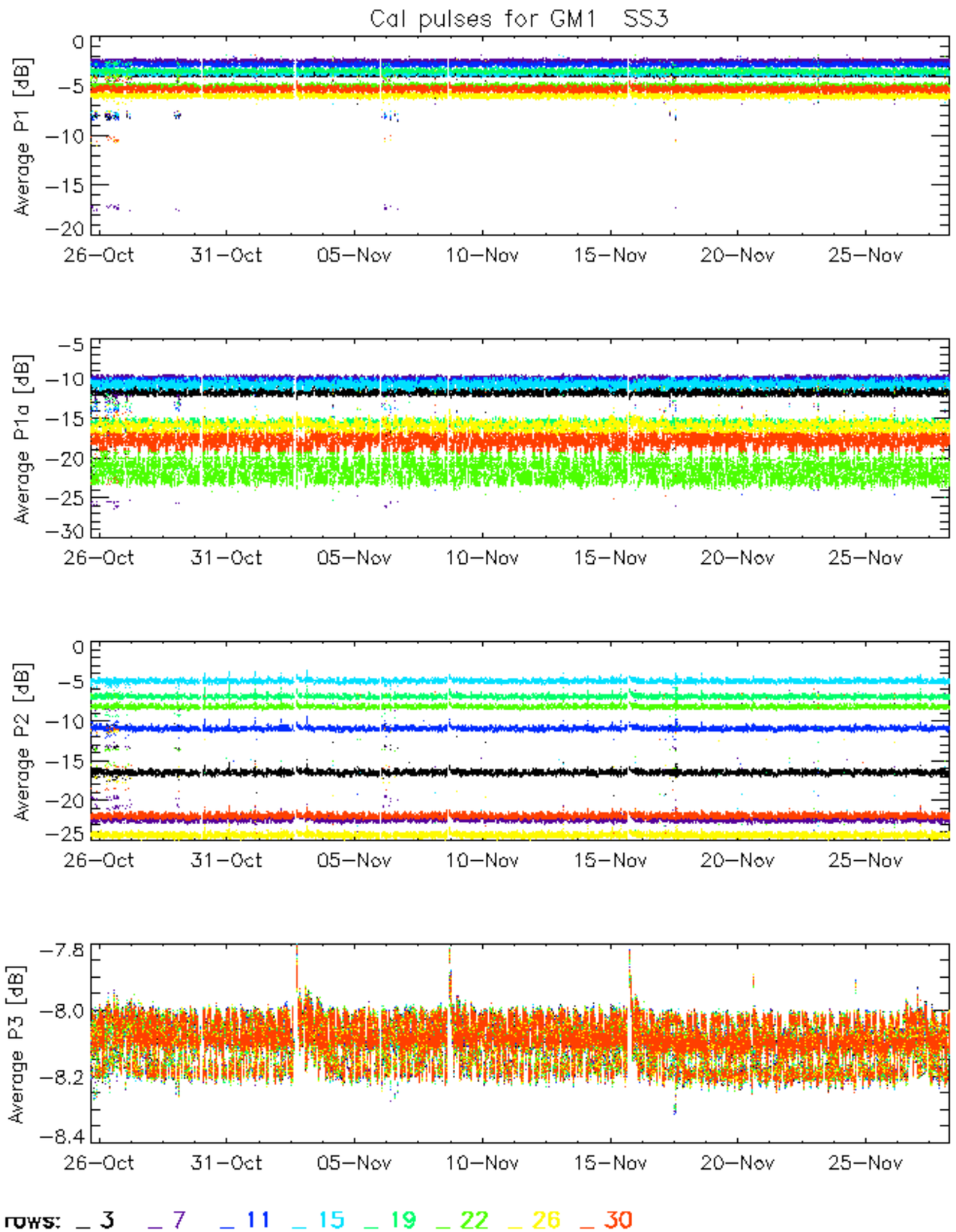
| Evolution of Absolute Doppler |
| --- |
| ☒ |
| Acsending |
| ☒ |
| Descending |

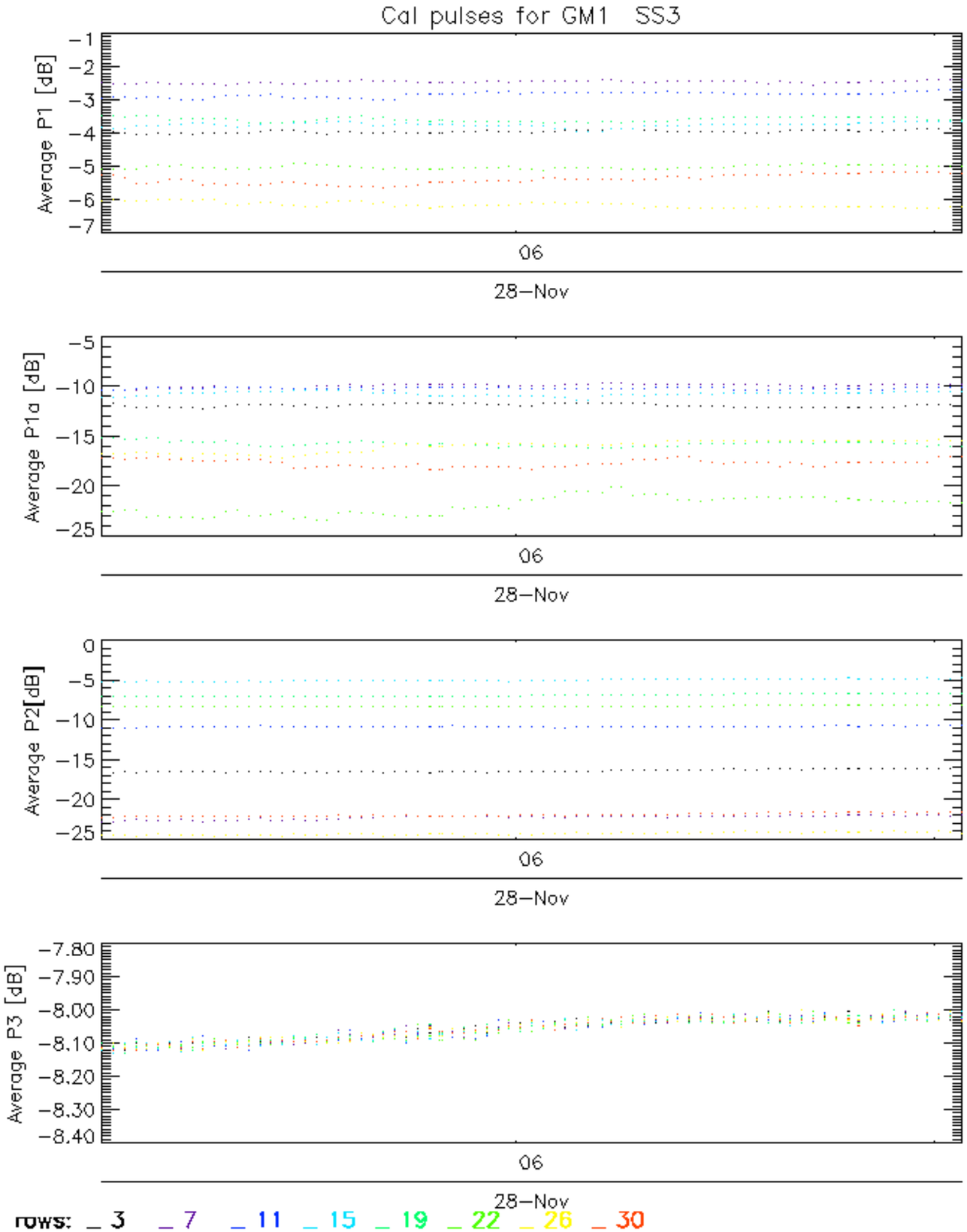
## 7.6 - Doppler evolution versus ANX for GM1

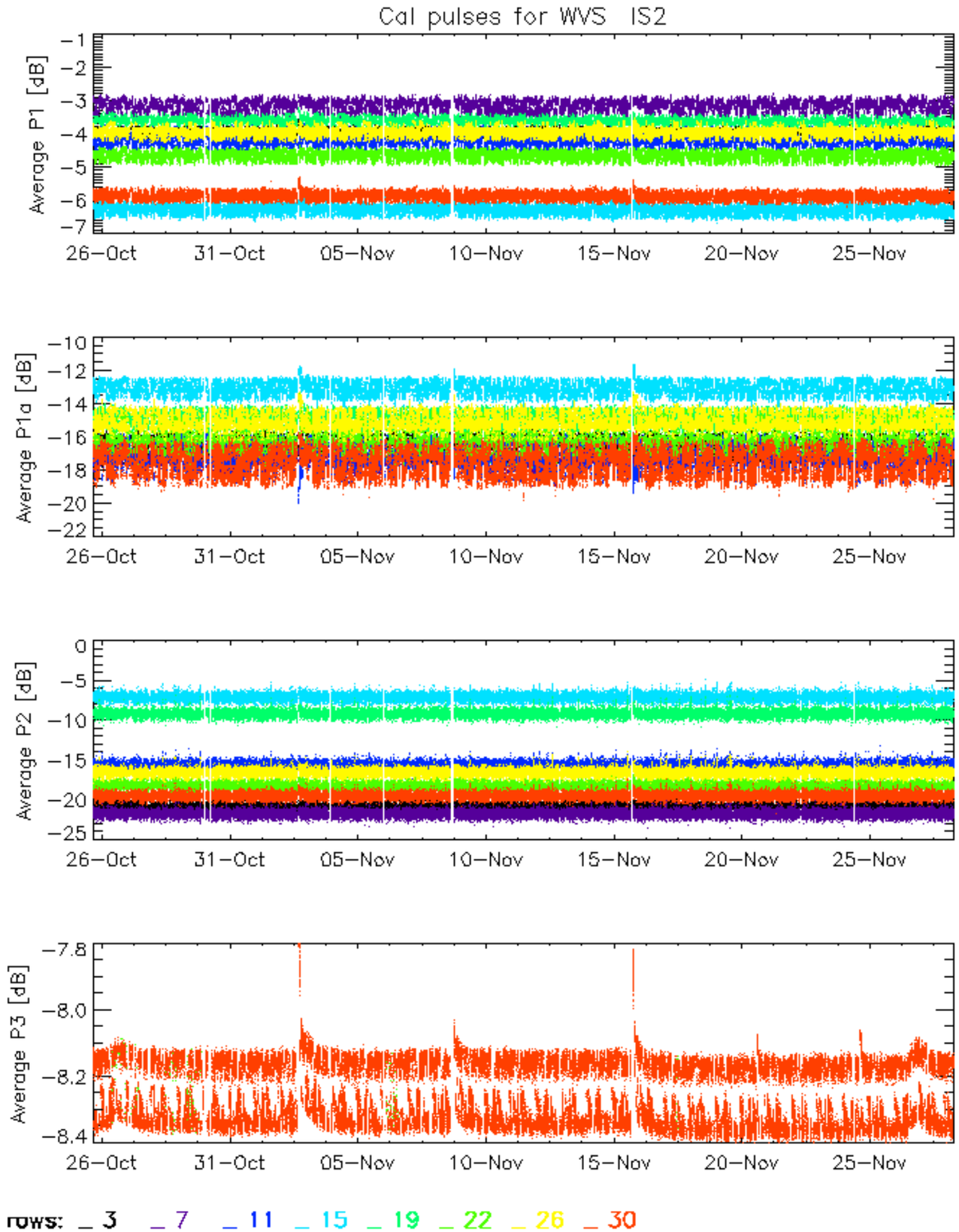
| Evolution Doppler error versus ANX |
| --- |
| ☒ |

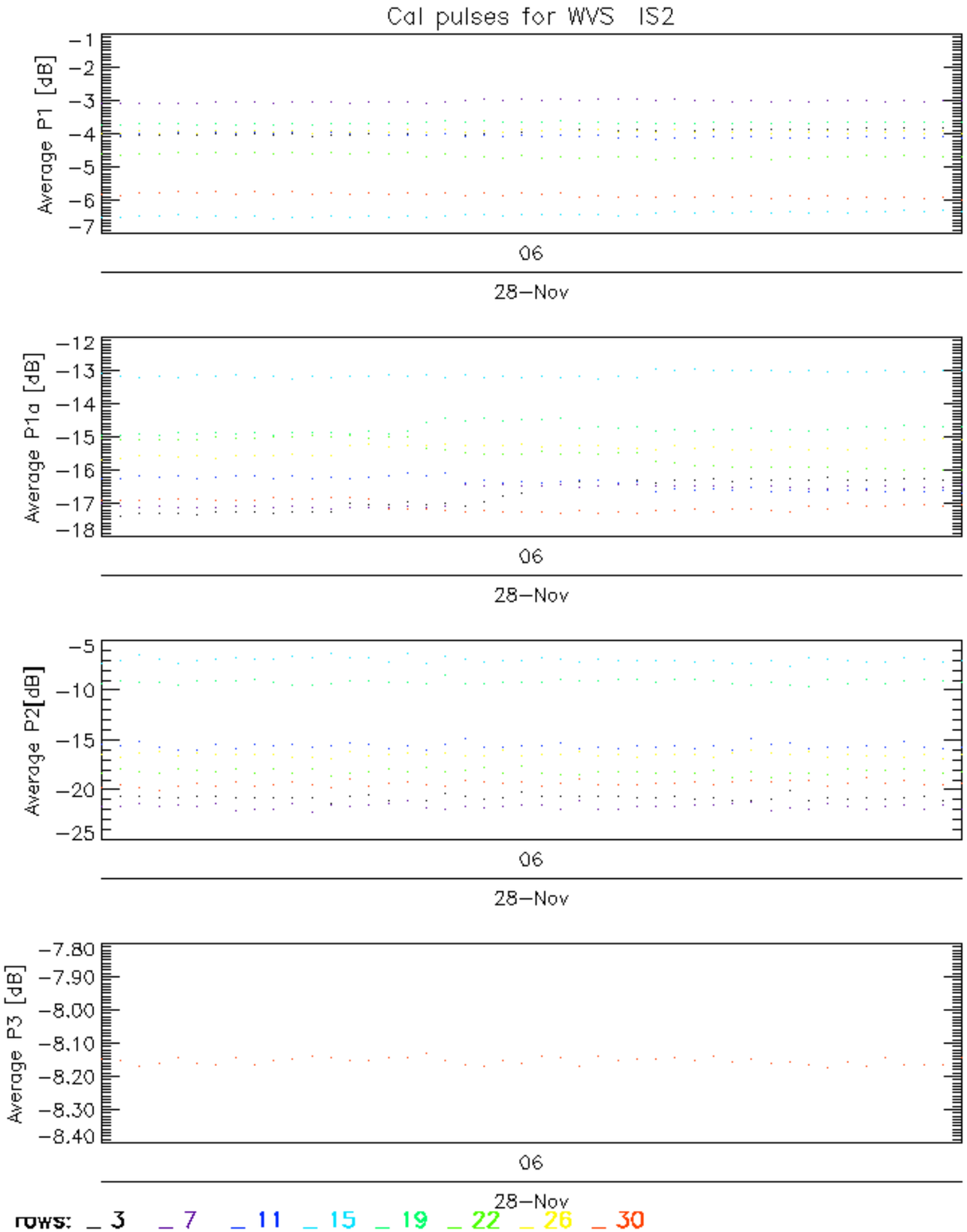

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
06
28−Nov
Average P1a [dB]
−5
−10
−15
−20
−25
06
28−Nov
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
06
28−Nov
Phase P1a [deg]
200
100
0
−100
−200
06
28−Nov
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
06
28−Nov
Average P1a [dB]
−12
−13
−14
−15
−16
−17
−18
06
28−Nov
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
06
28−Nov
Phase P1a [deg]
200
100
0
−100
−200
06
28−Nov
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

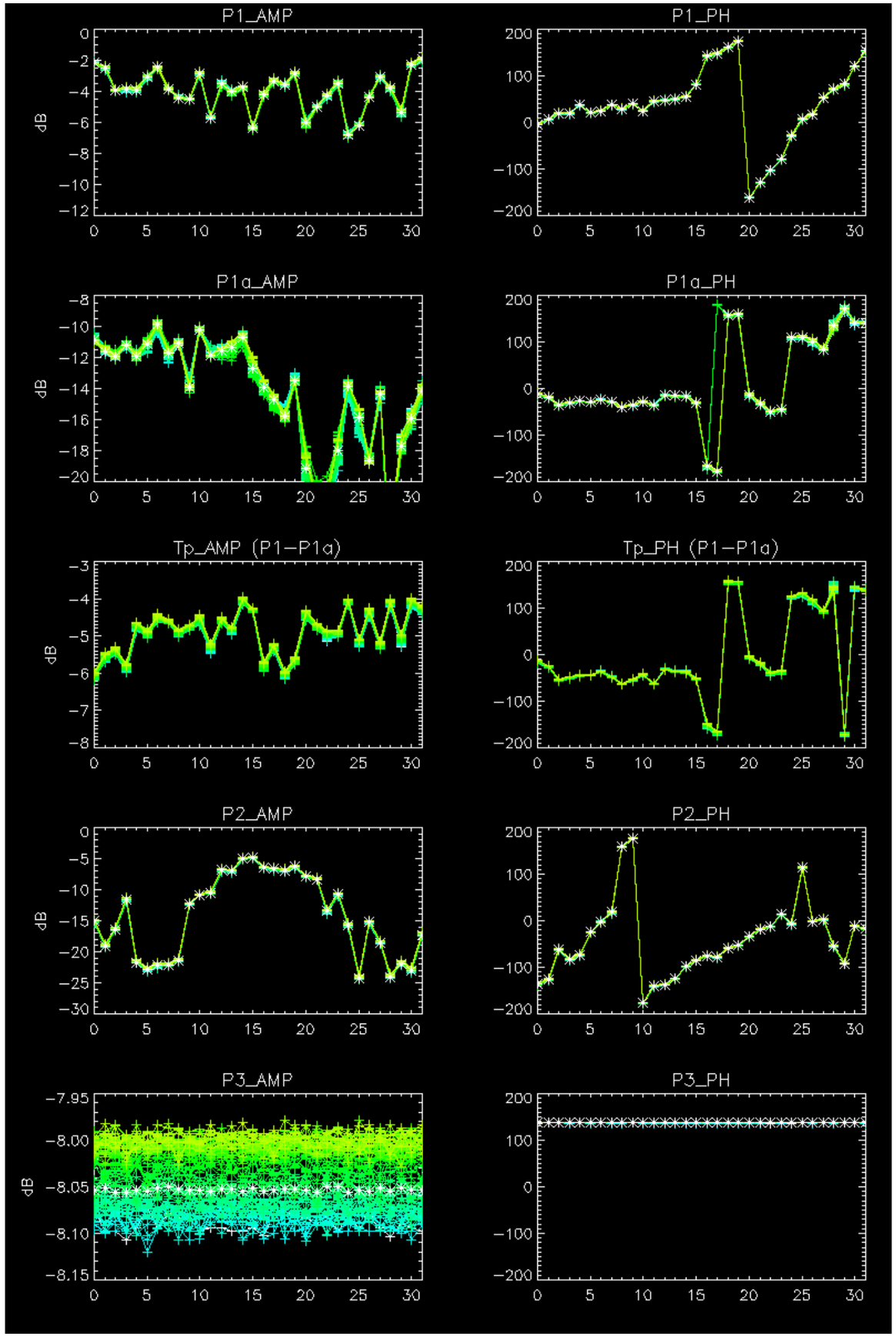

Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

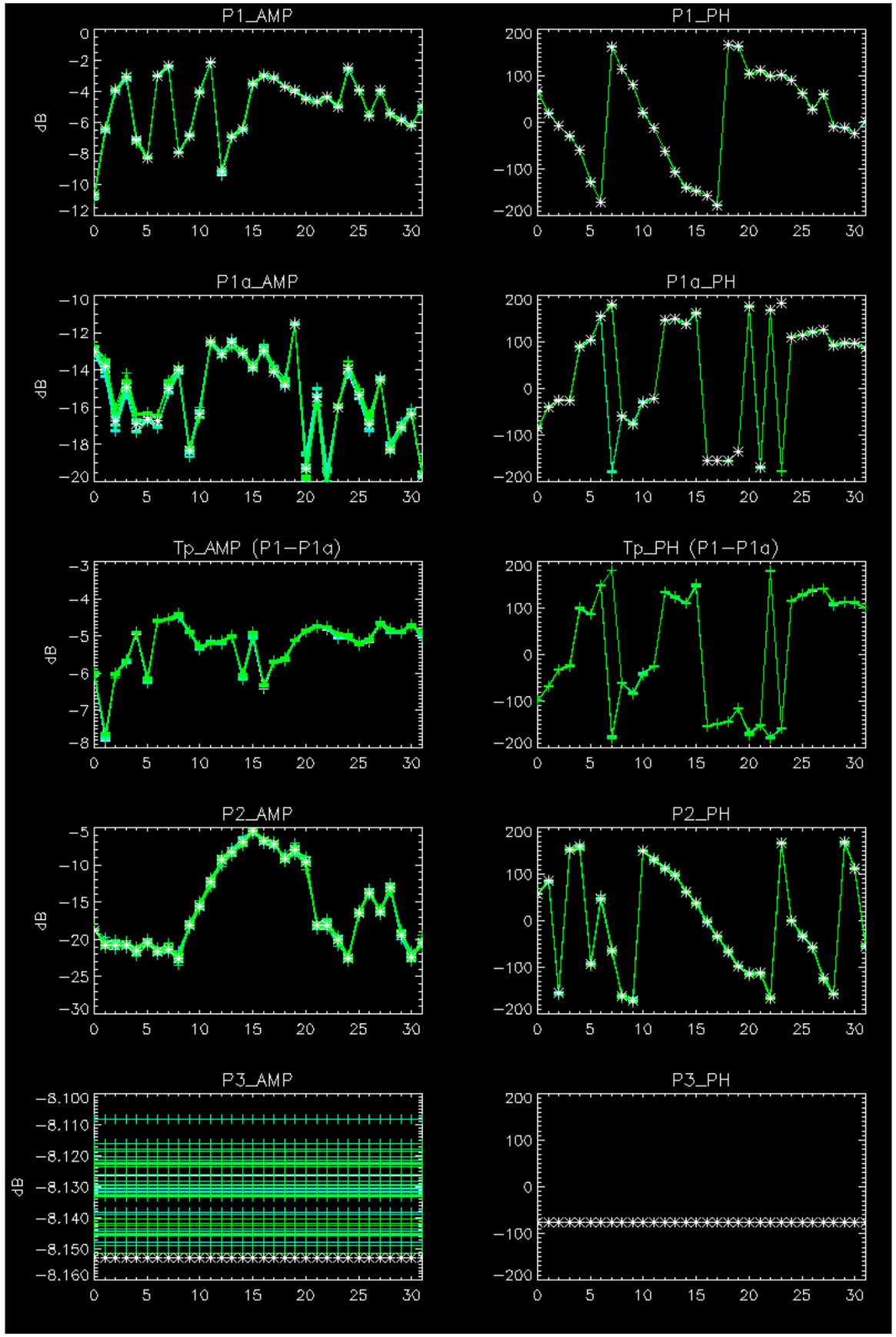

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
06
28−Nov
Average P1a [dB]
−5
−10
−15
−20
−25
06
28−Nov
Average P2[dB]
0
−5
−10
−15
−20
−25
06
28−Nov
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
06
28−Nov
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
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
06
28−Nov
Average P1a [dB]
−12
−13
−14
−15
−16
−17
−18
06
28−Nov
Average P2[dB]
−5
−10
−15
−20
−25
06
28−Nov
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
06
28−Nov
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

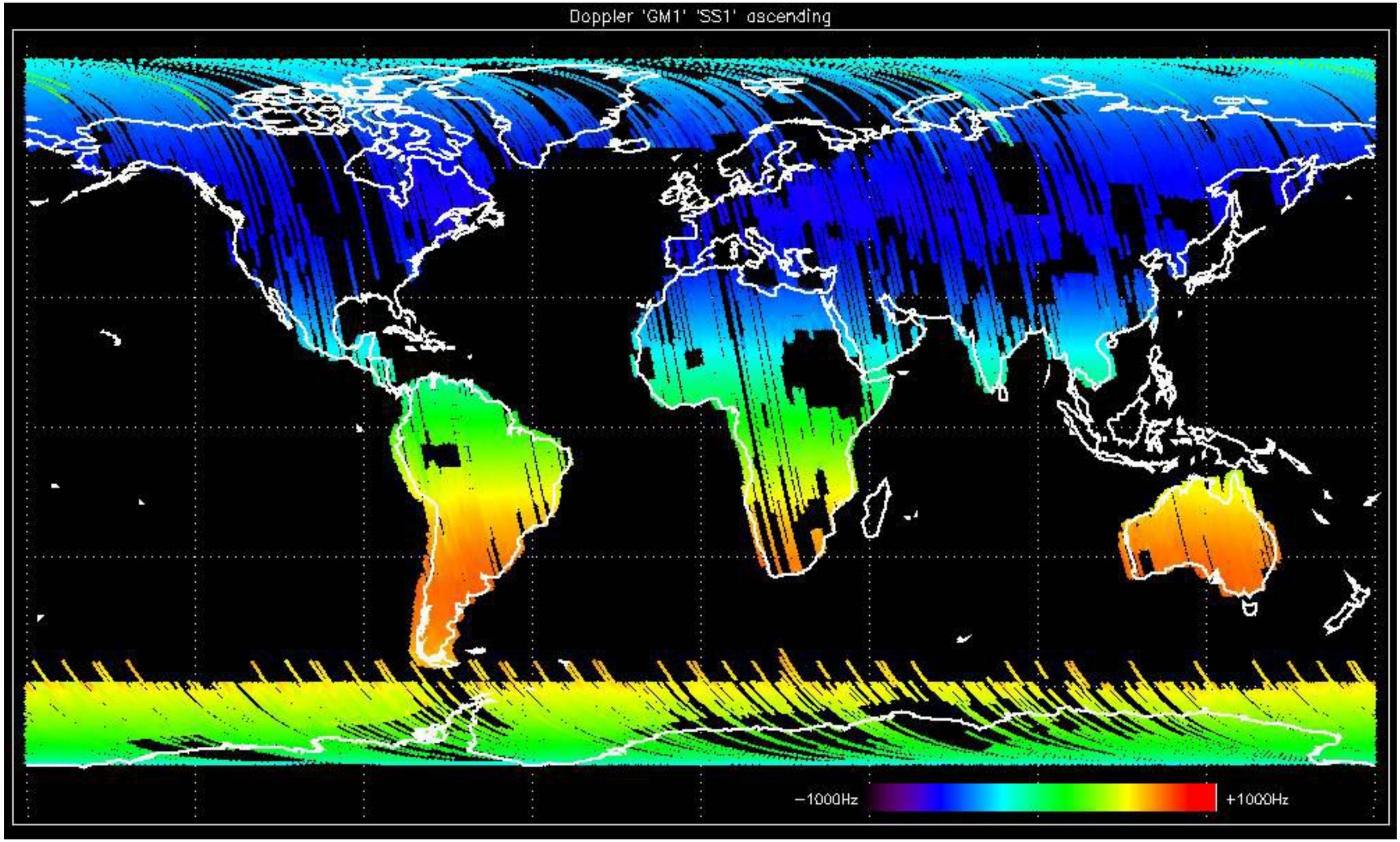
No anomalies observed.

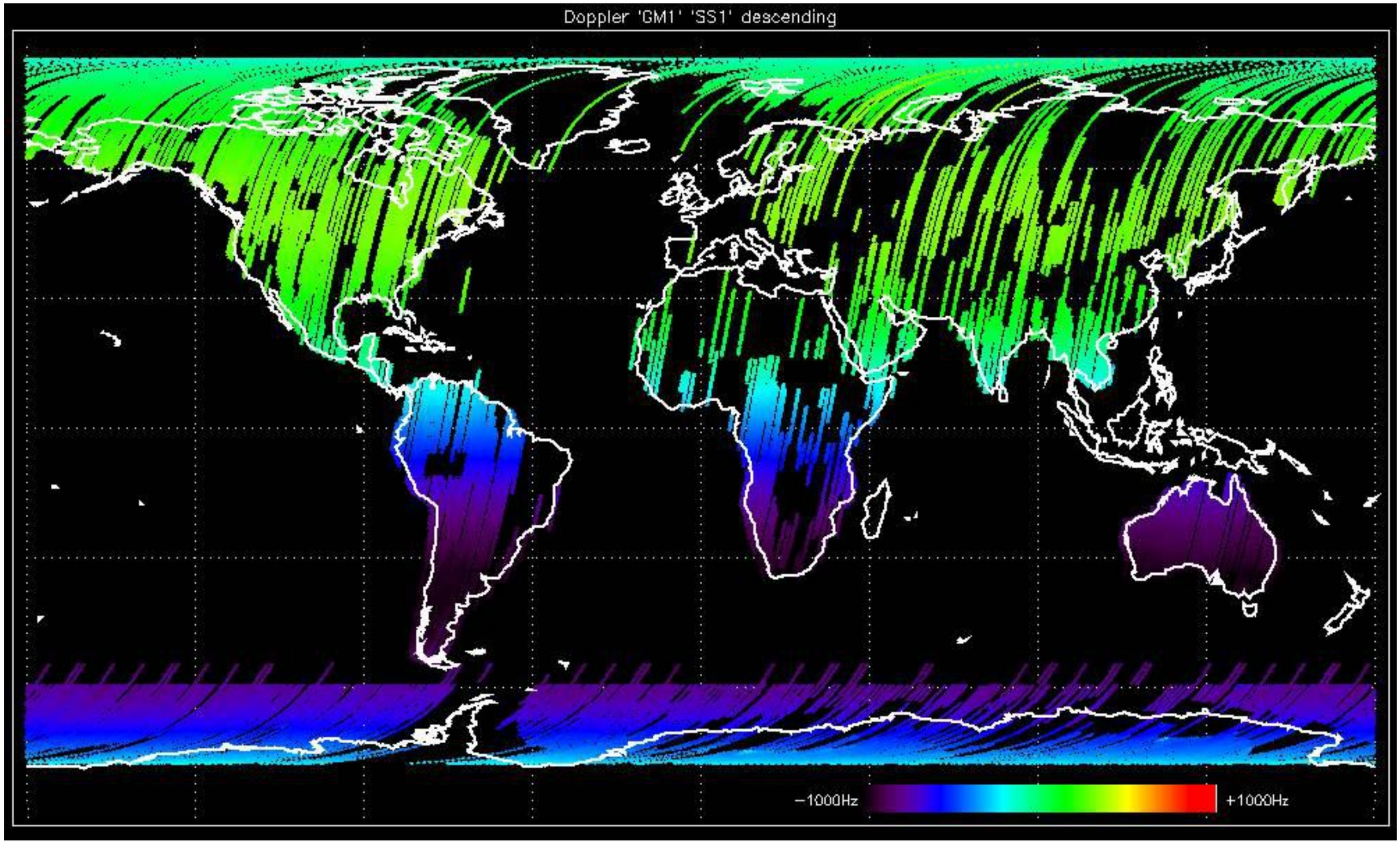

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

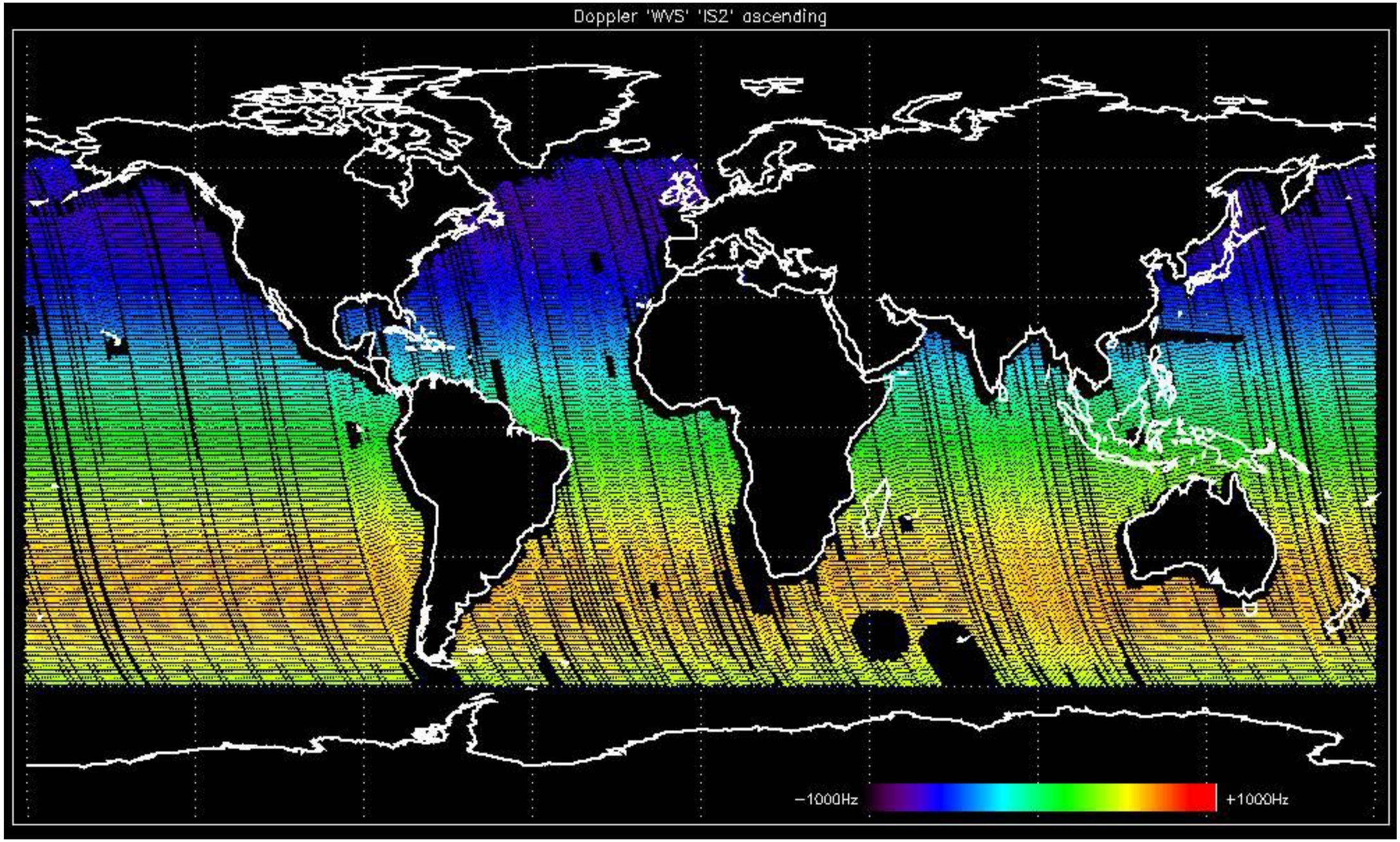

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

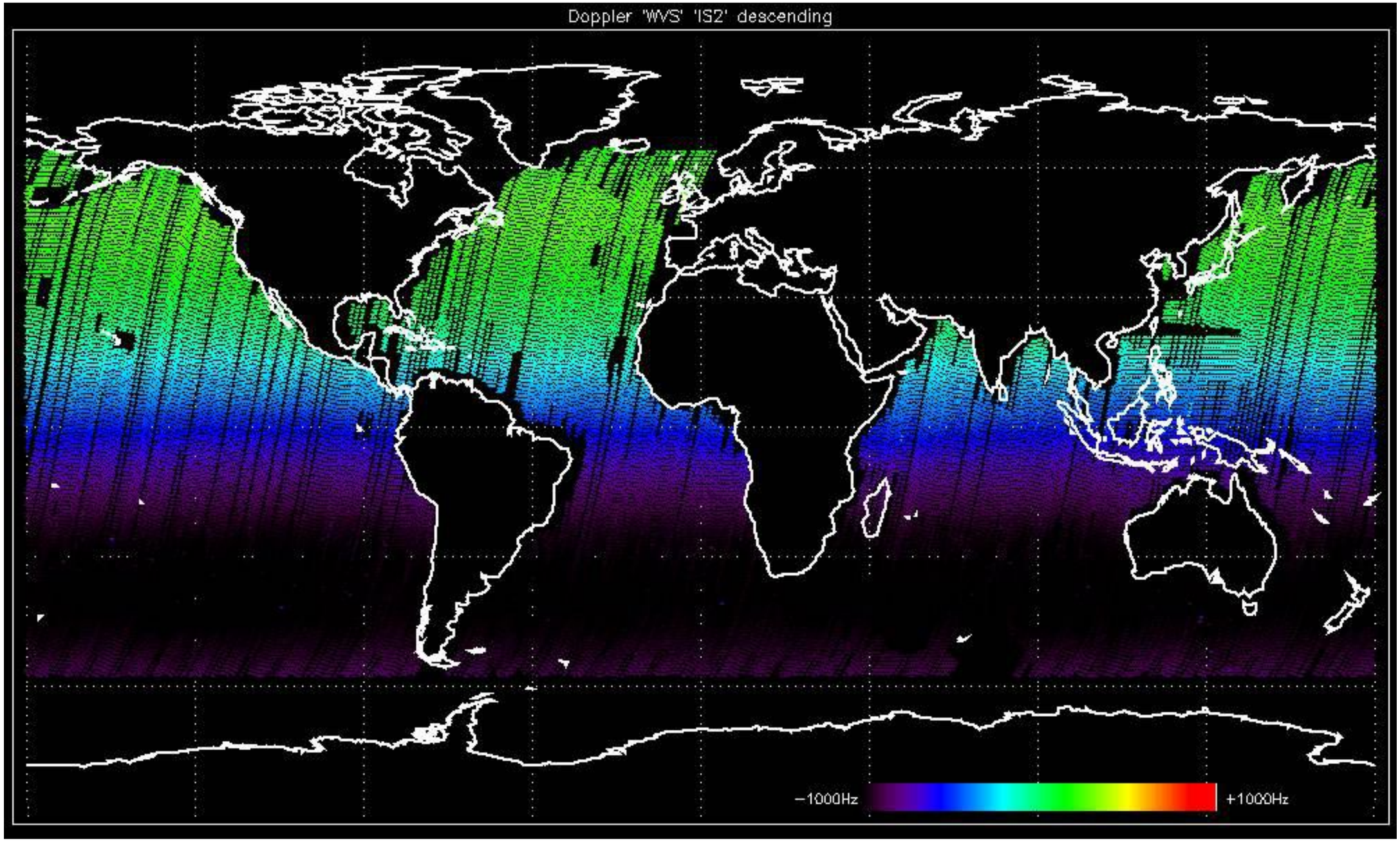
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

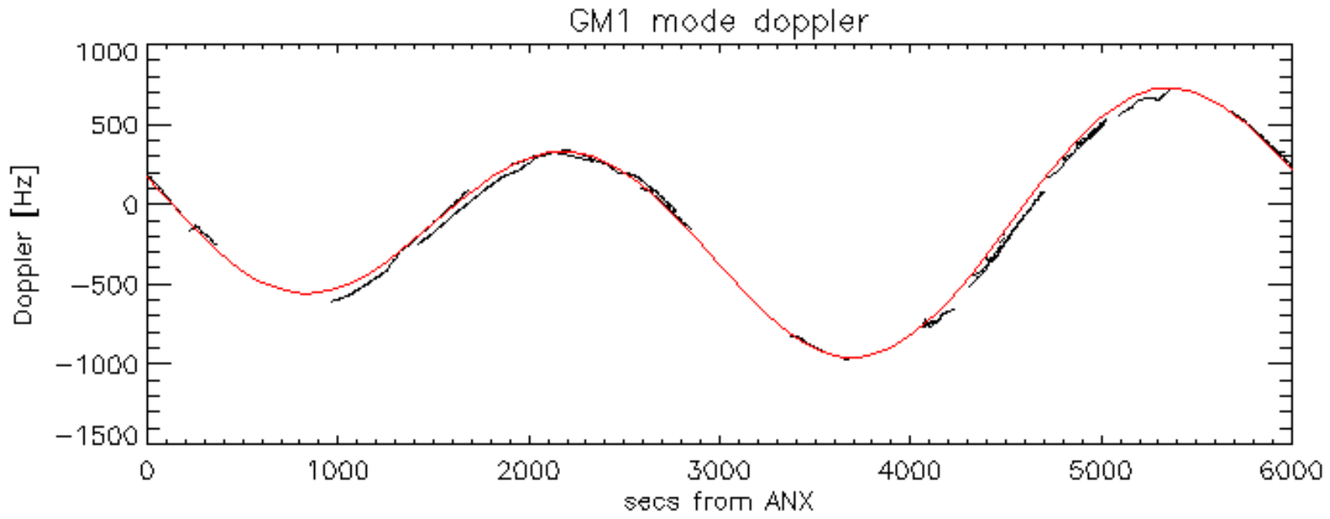
Preliminary report.The data is not yet controled

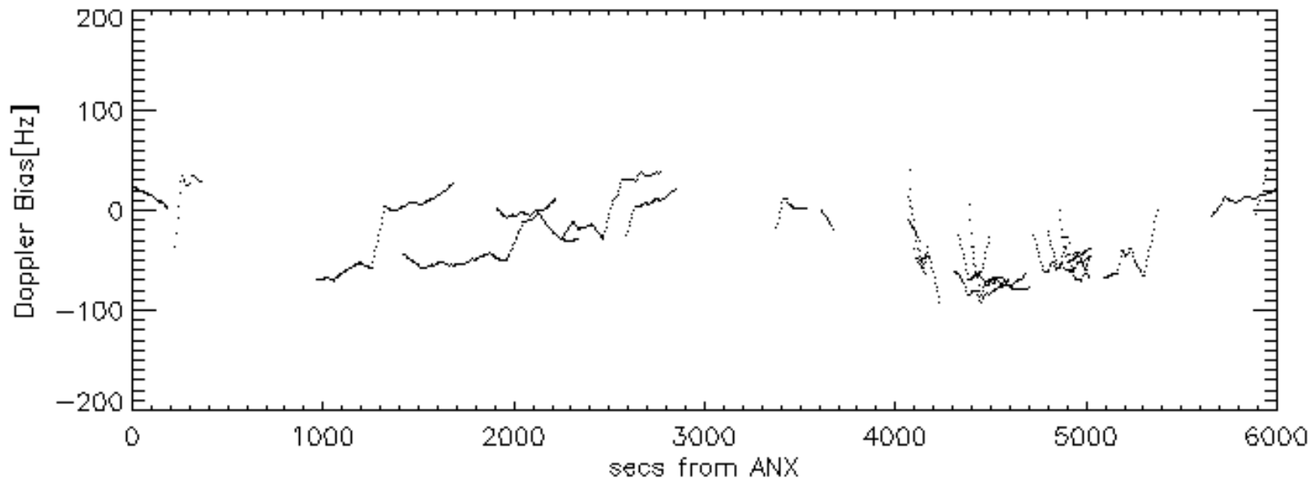

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

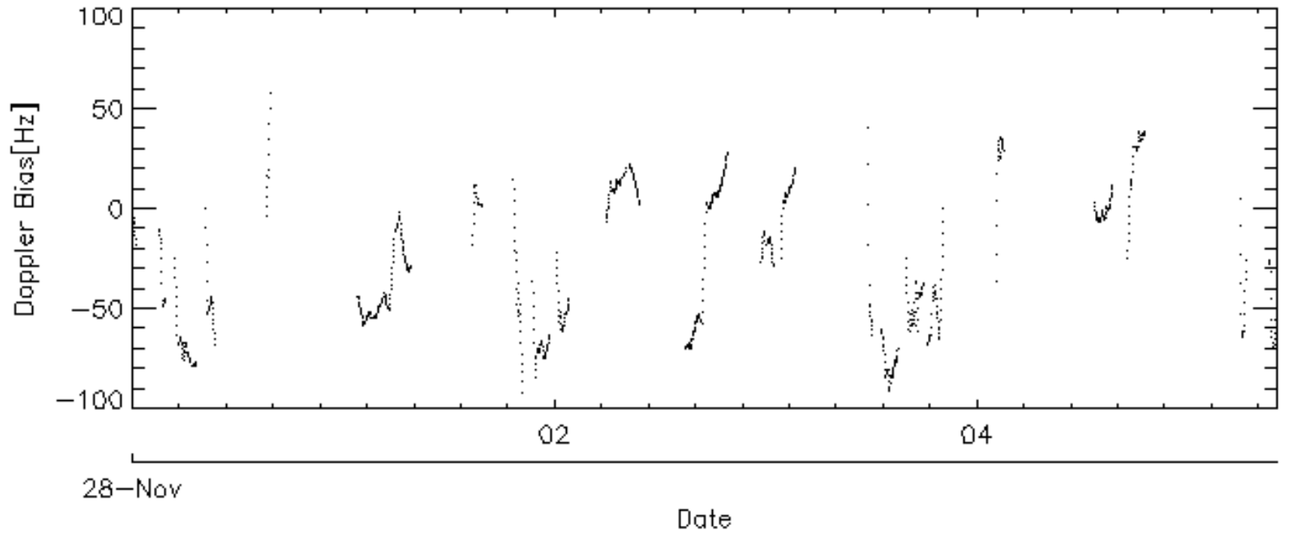

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

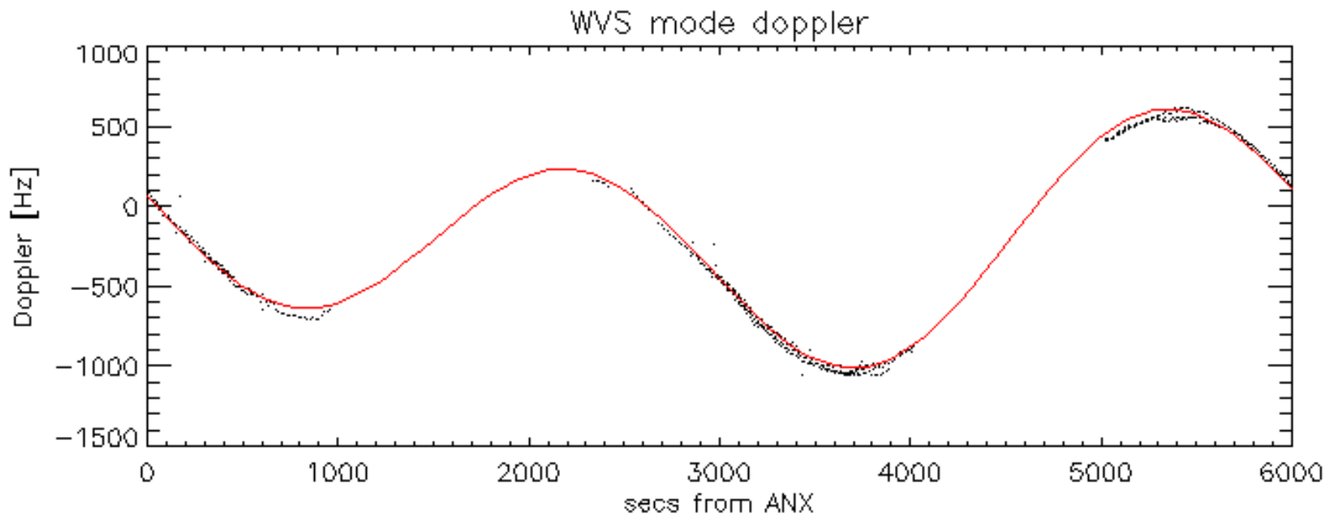

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

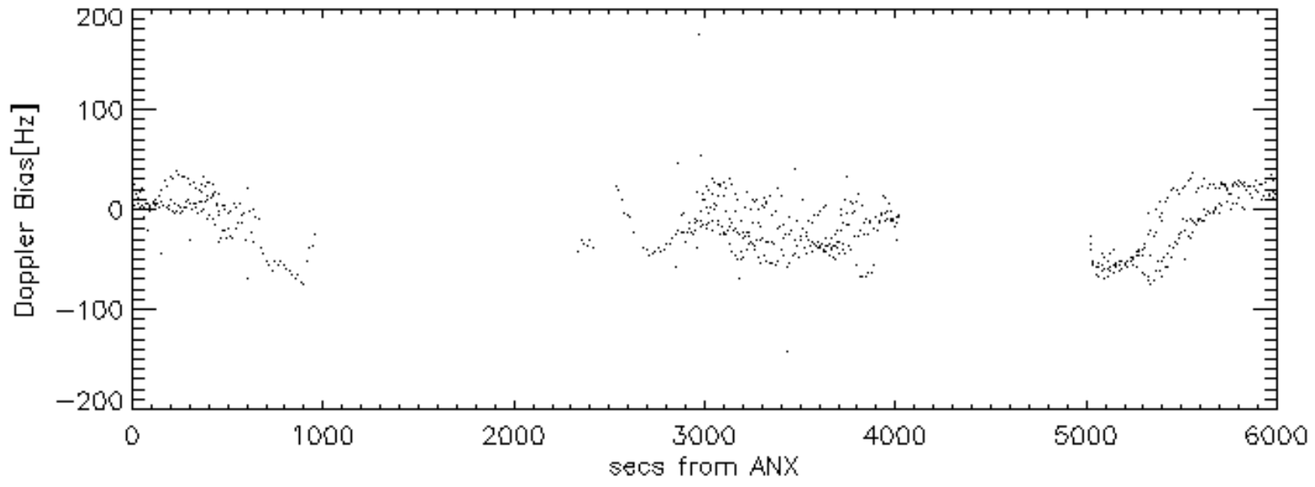

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

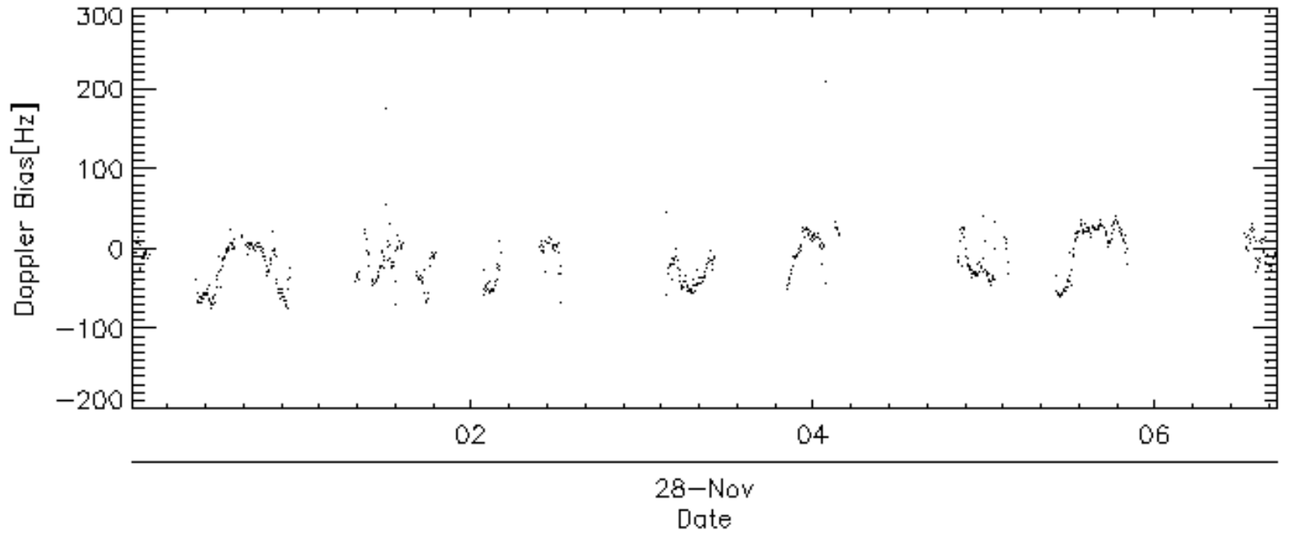

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

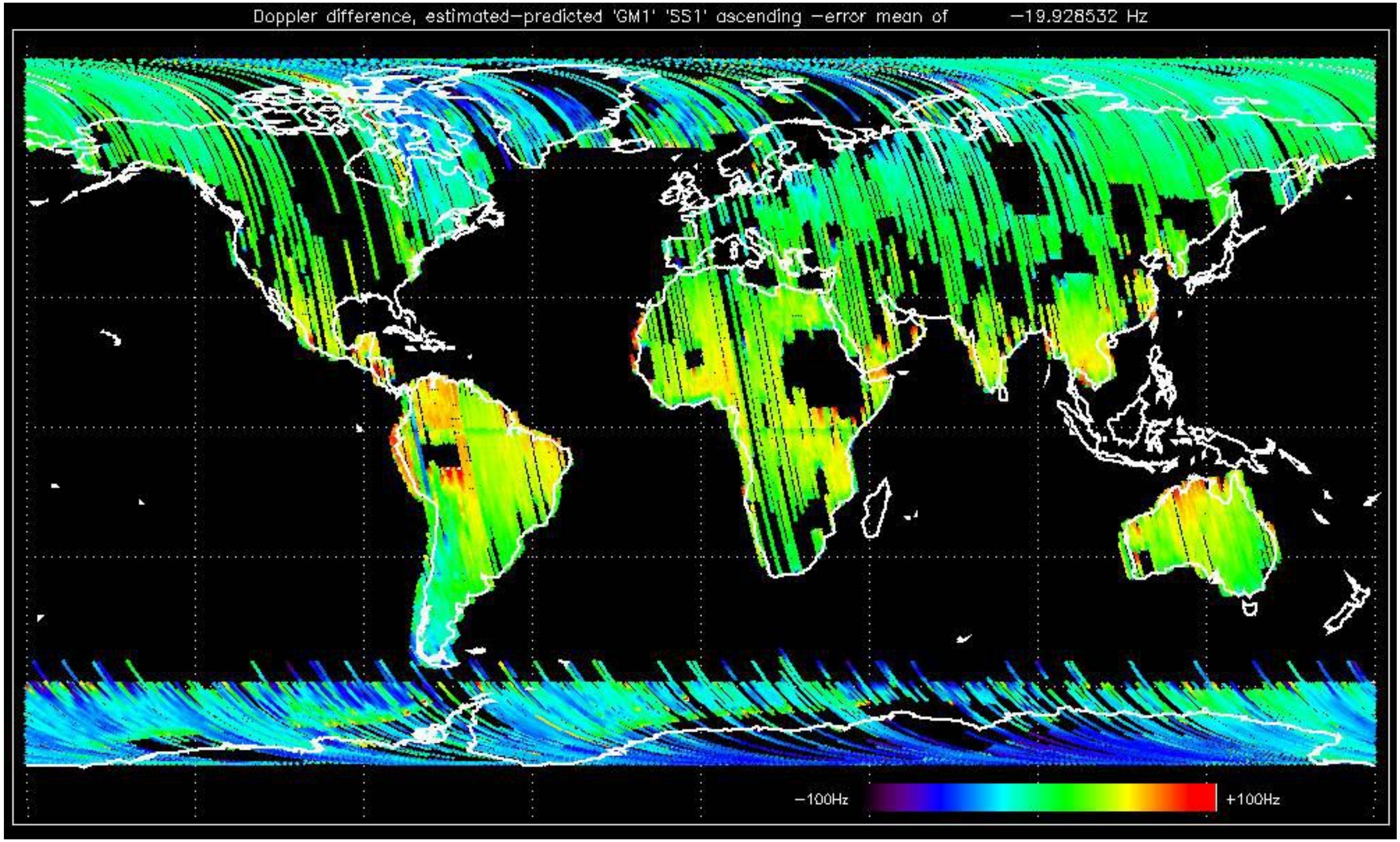

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

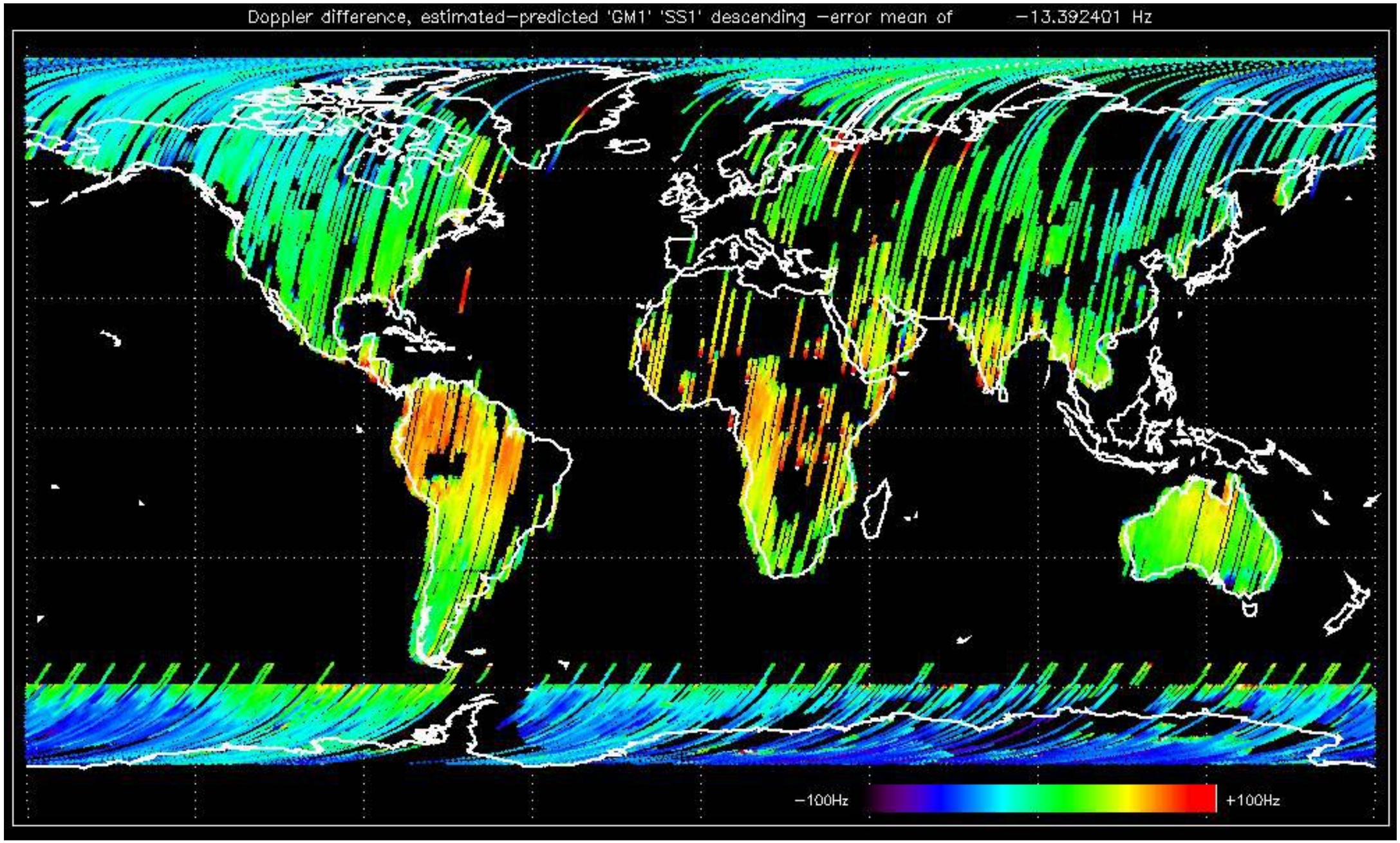

Doppler Bias[Hz]
100
50
0
−50
−100
02
04
28−Nov
Date

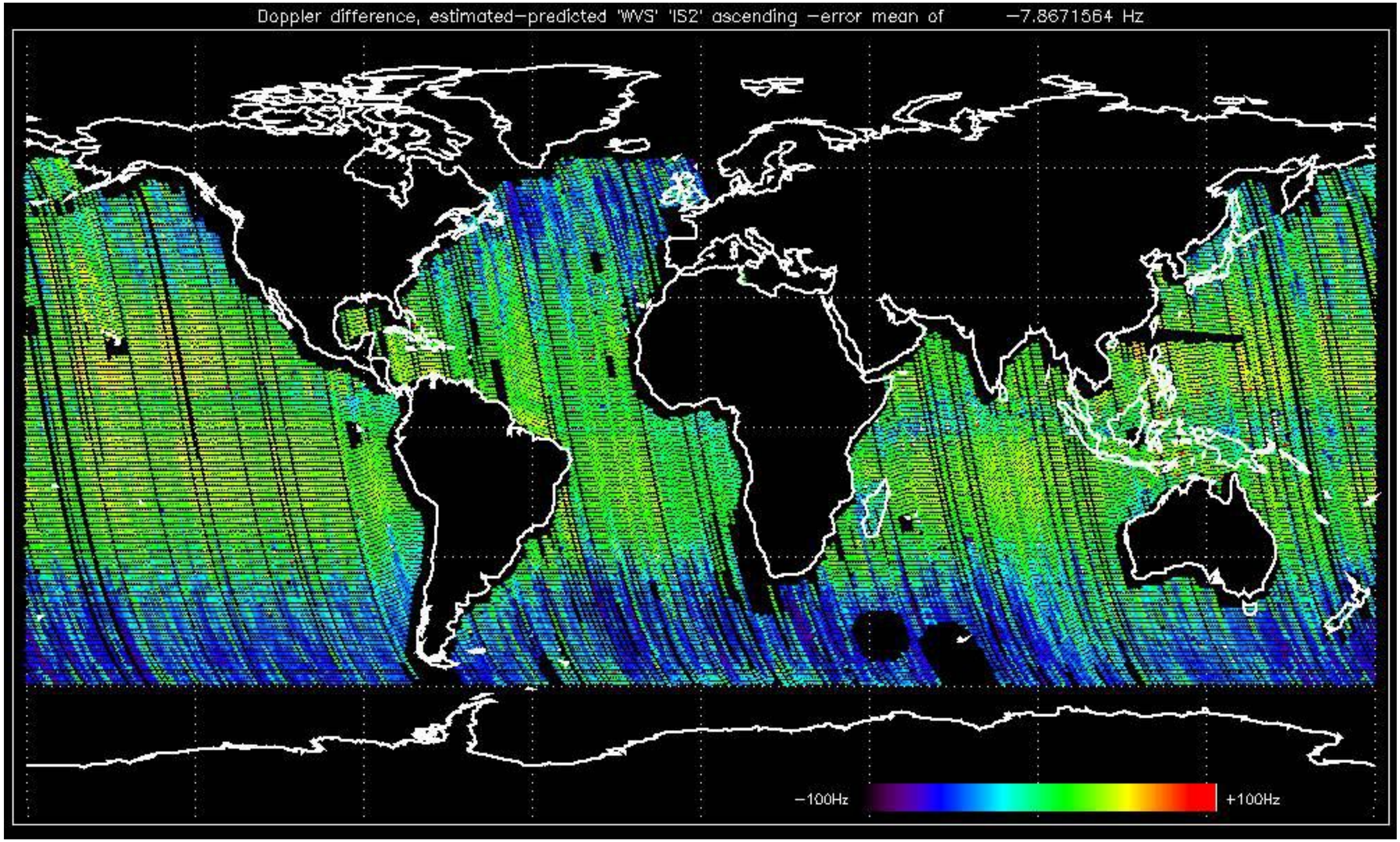

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

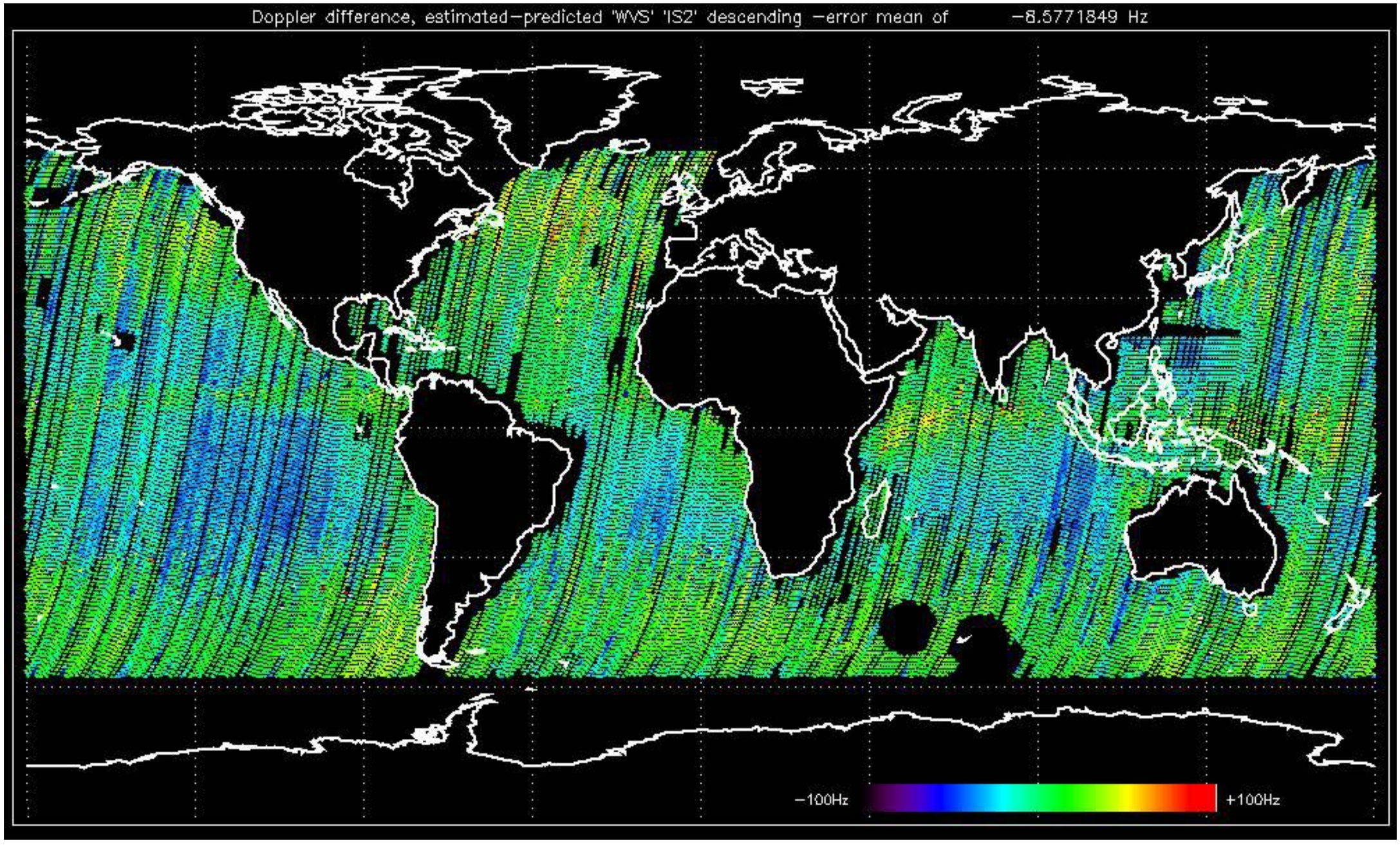

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


Doppler Bias[Hz]
300
200
100
0
−100
−200
02
04
06
28−Nov
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −19.928532 Hz
−100Hz
+100Hz

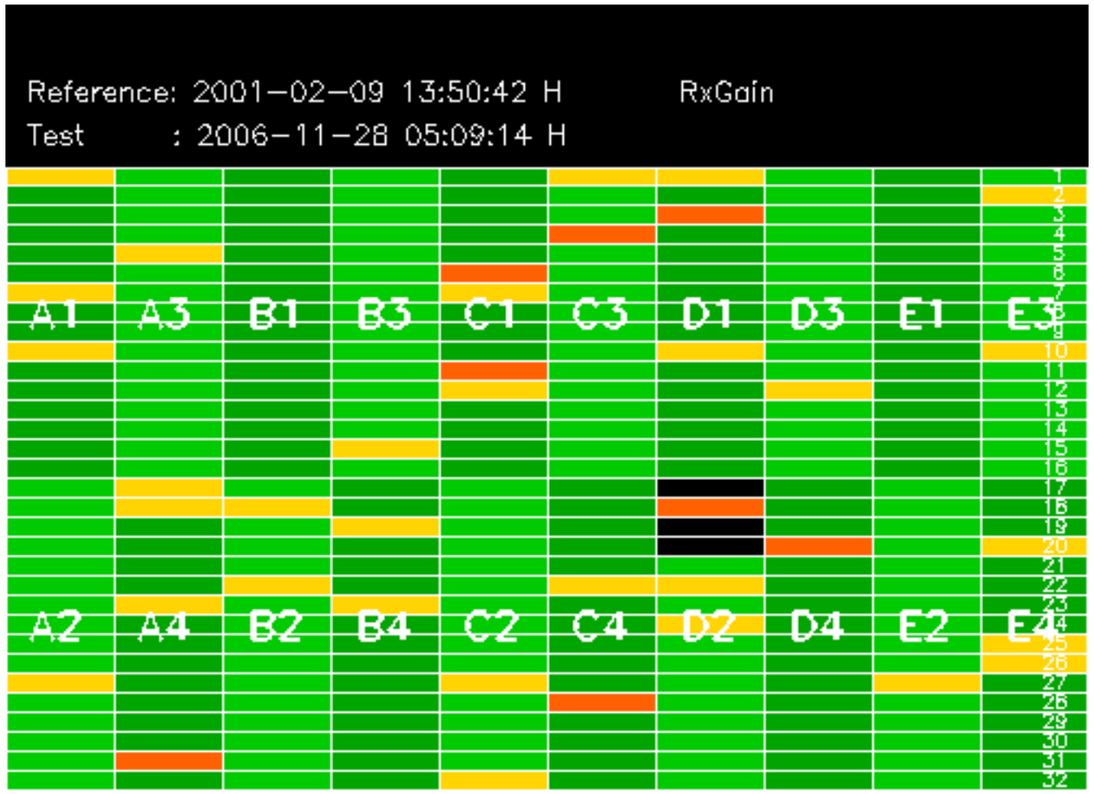

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −13.392401 Hz
−100Hz
+100Hz

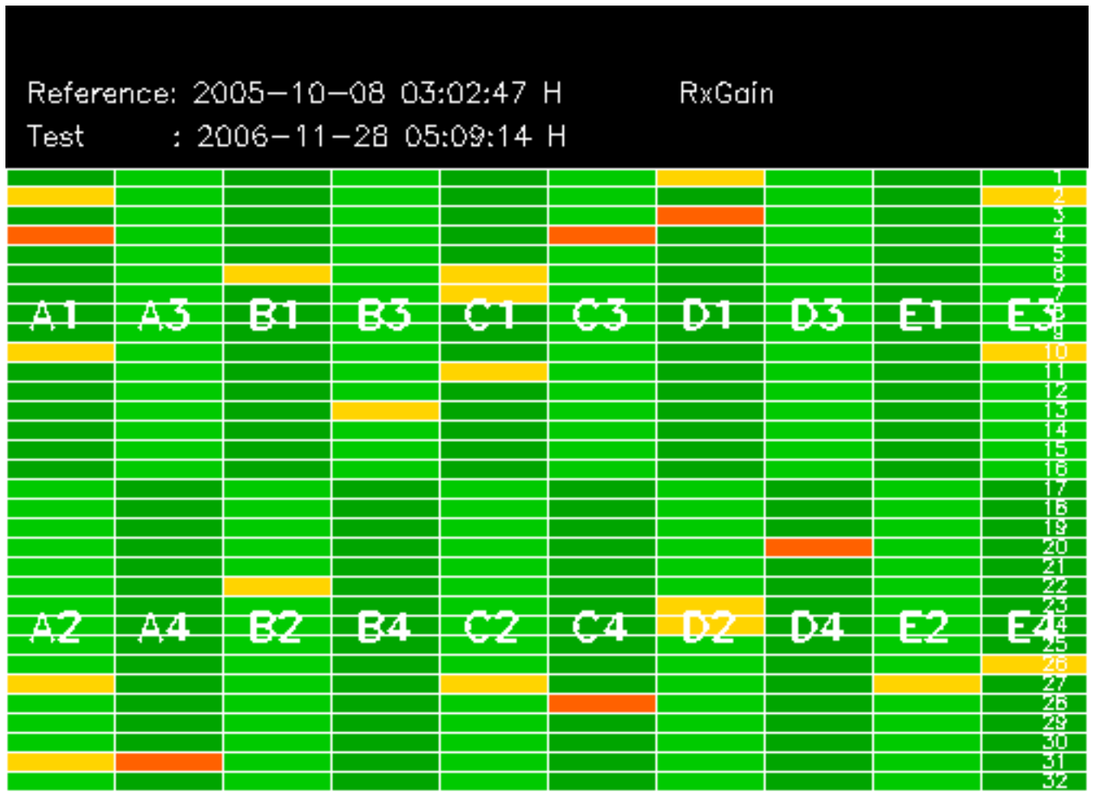

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −7.8671564 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −8.5771849 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-11-28 05:09:14 H
RxGain
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 : 2006-11-28 05:09:14 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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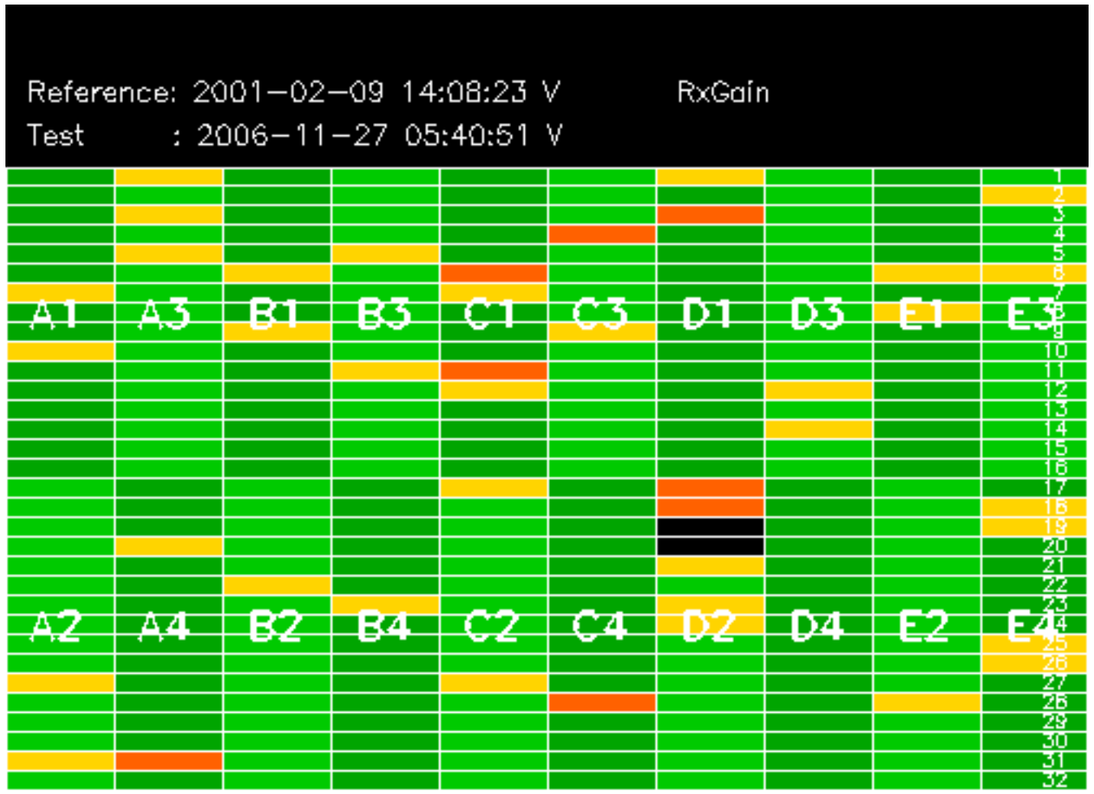
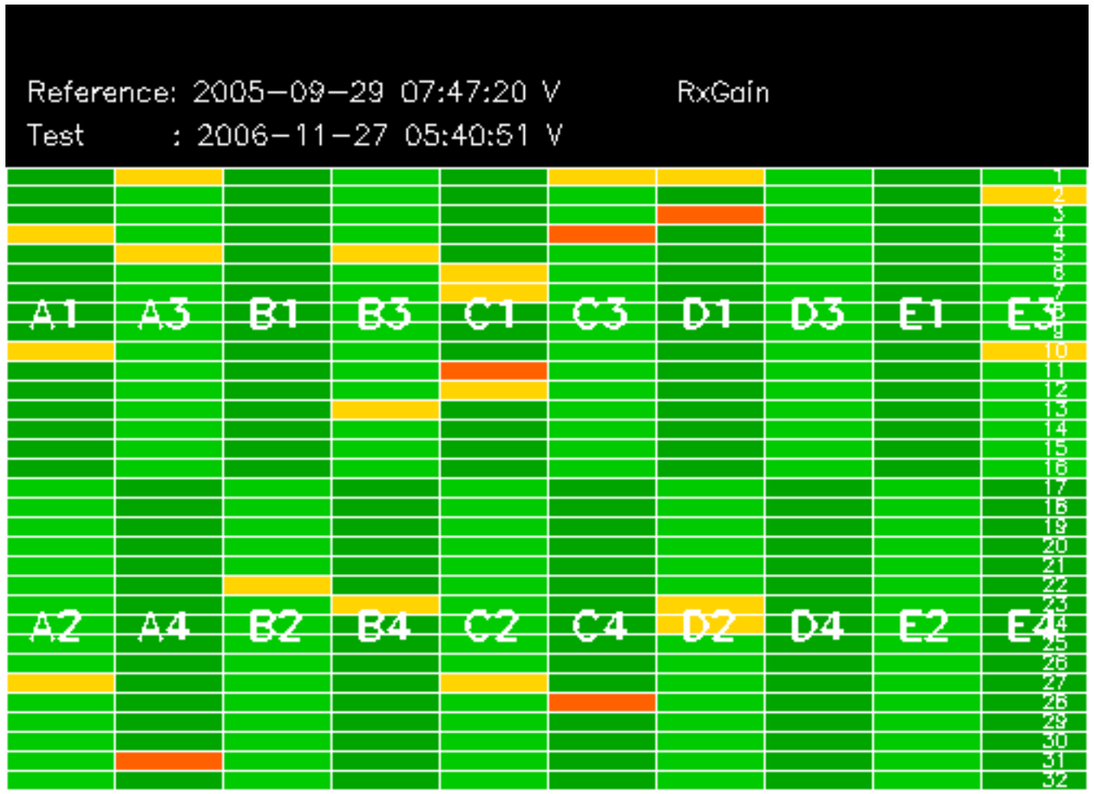

Reference: 2001-02-09 14:08:23 V
Test : 2006-11-27 05:40:51 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-11-27 05:40:51 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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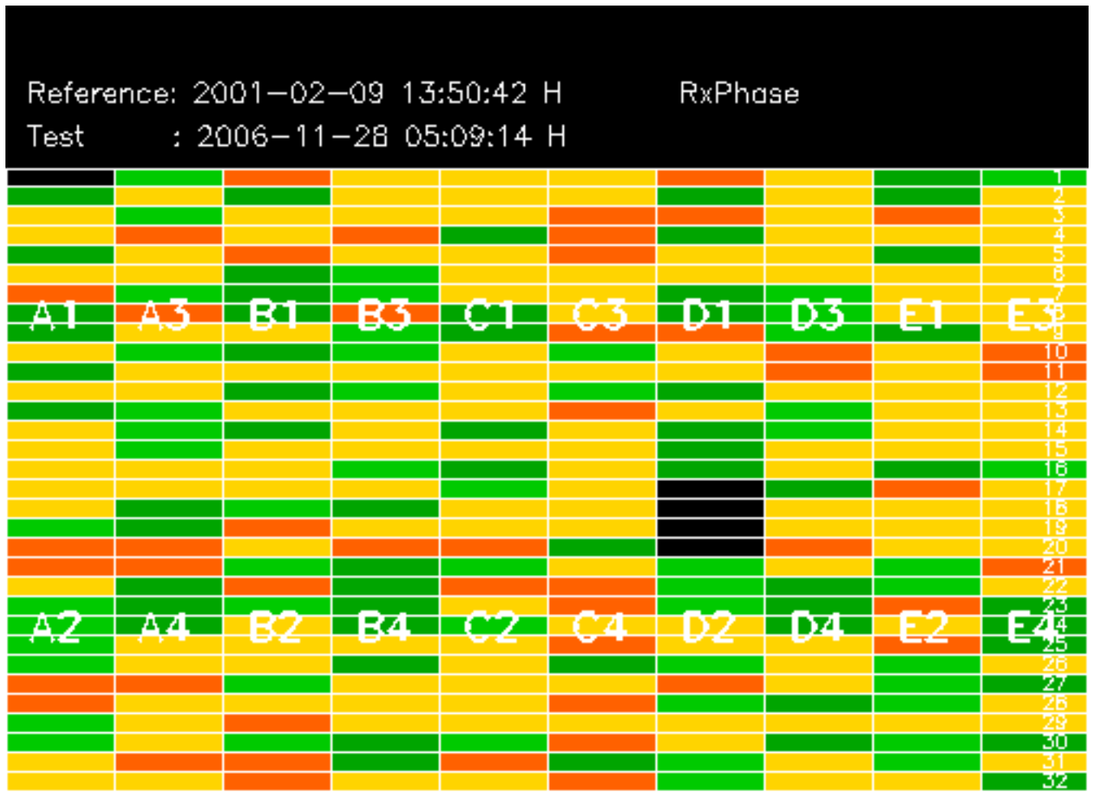
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-11-28 05:09:14 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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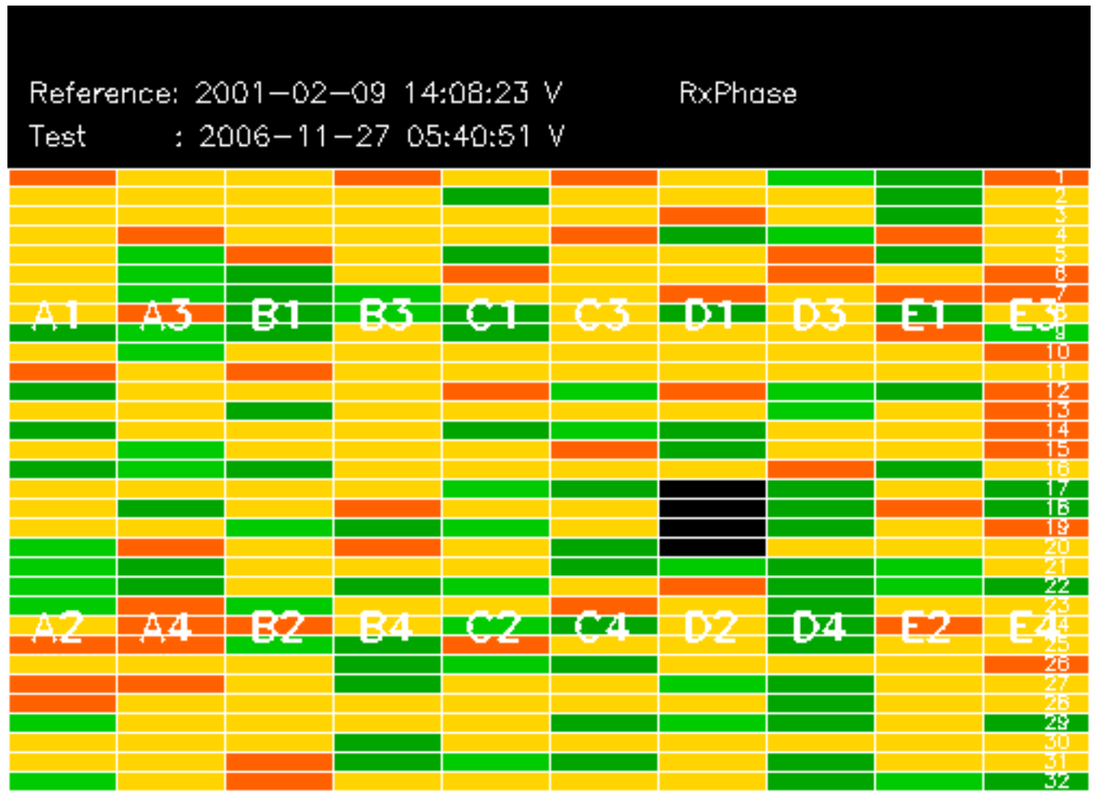
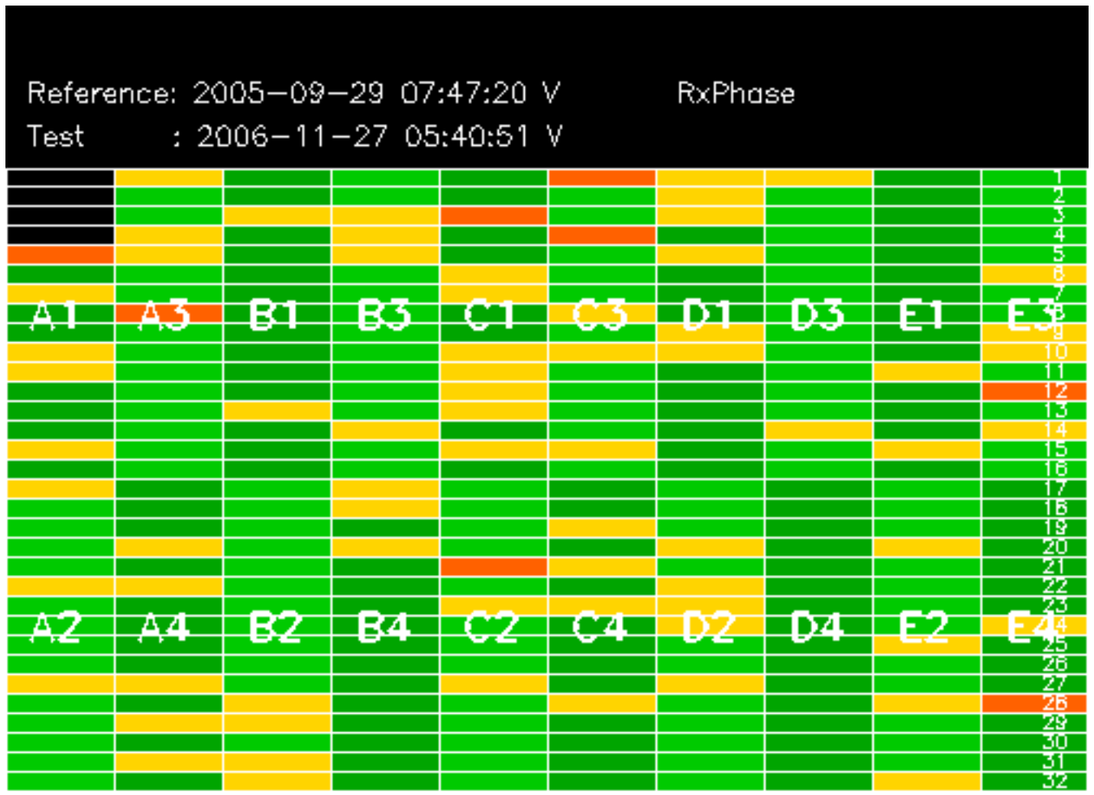
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-11-28 05:09:14 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2006-11-27 05:40:51 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 : 2006-11-27 05:40:51 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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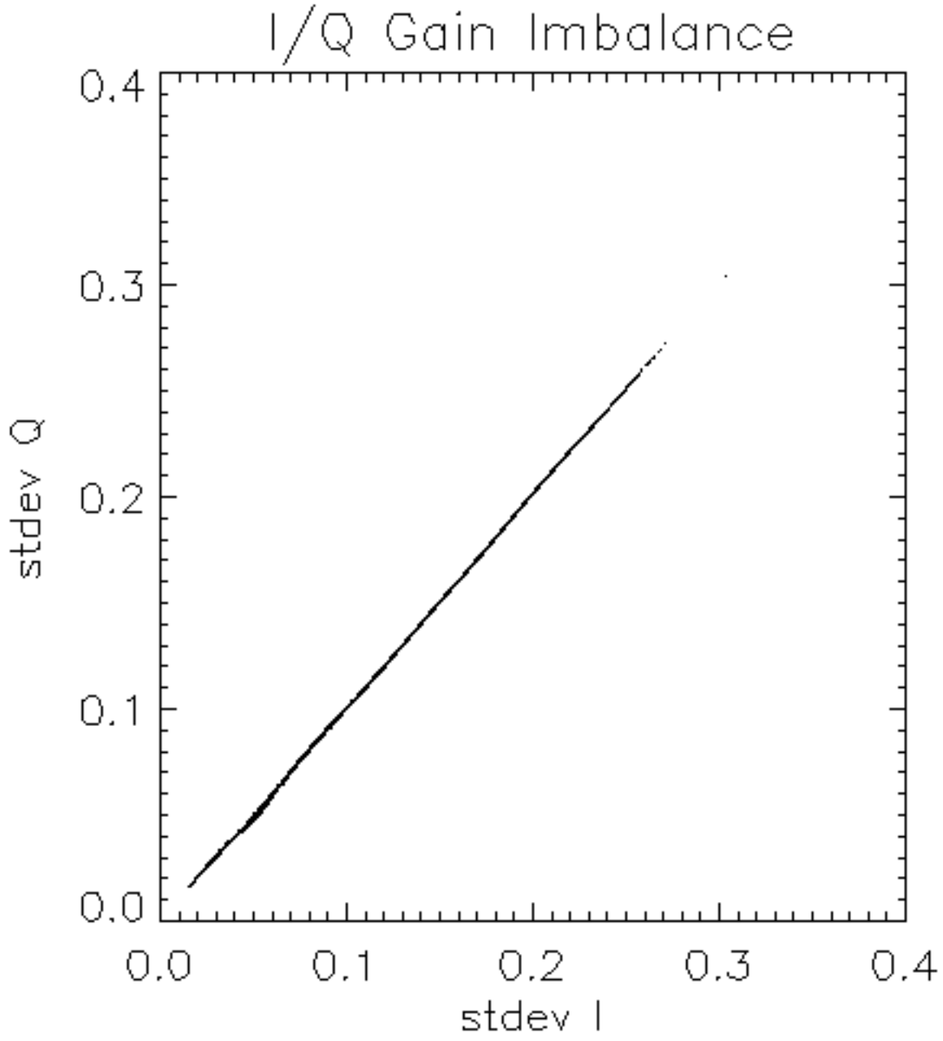
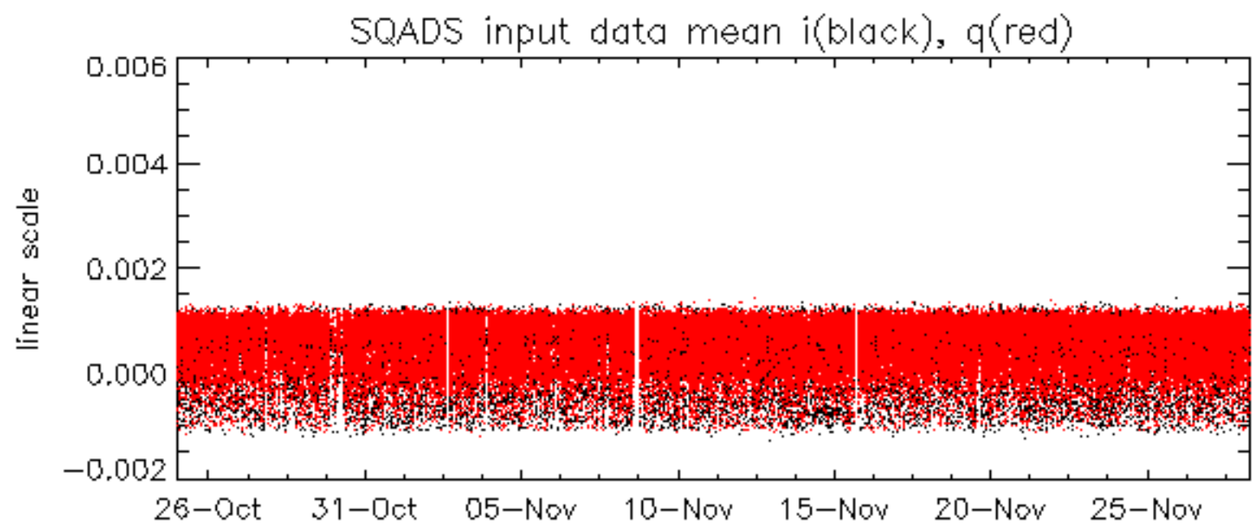
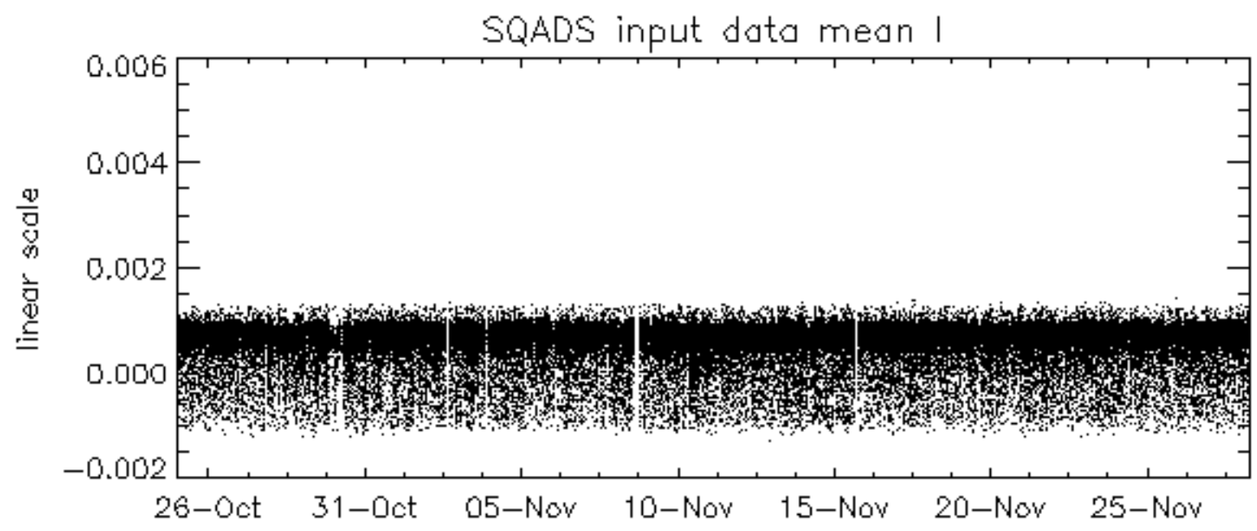
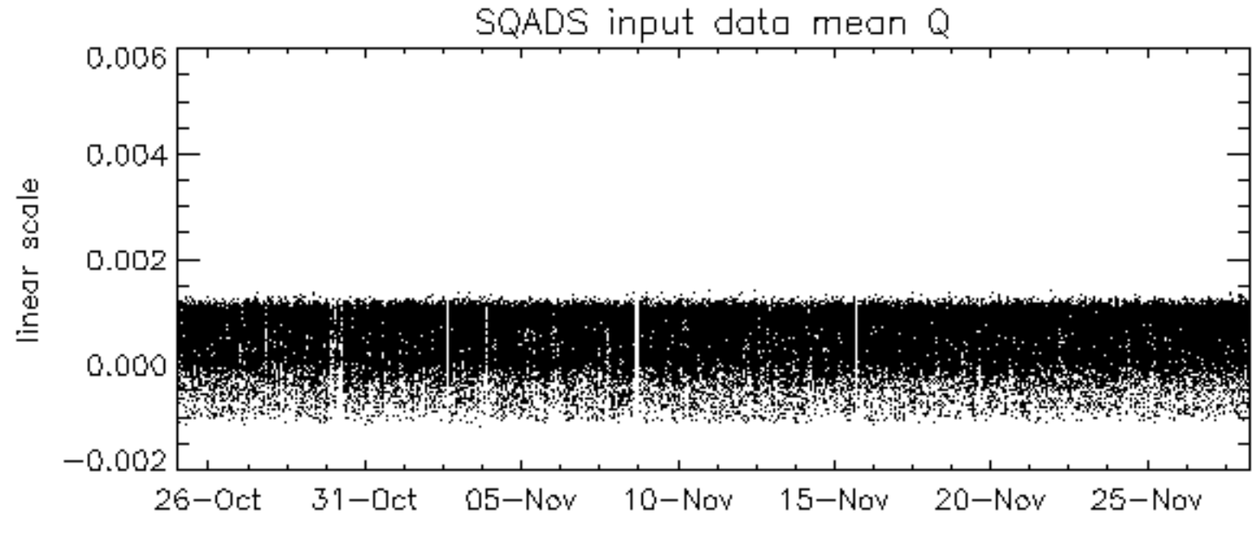
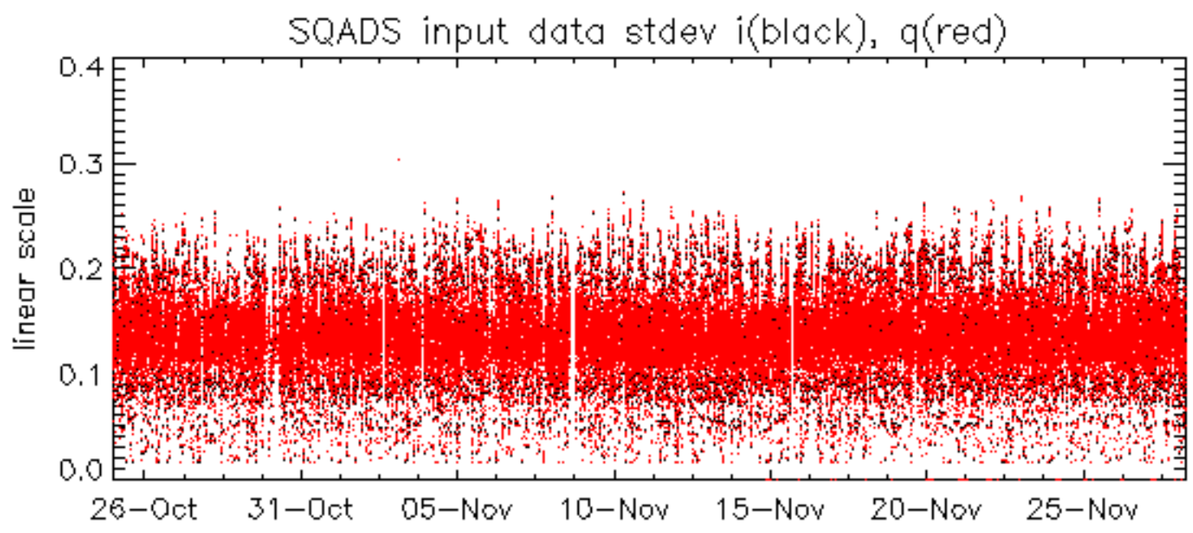
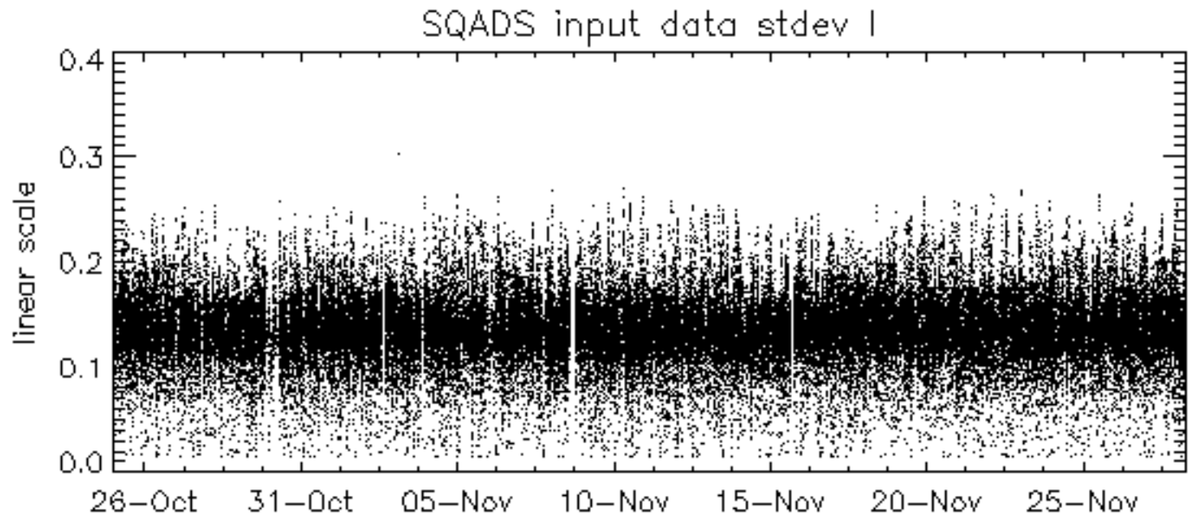

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

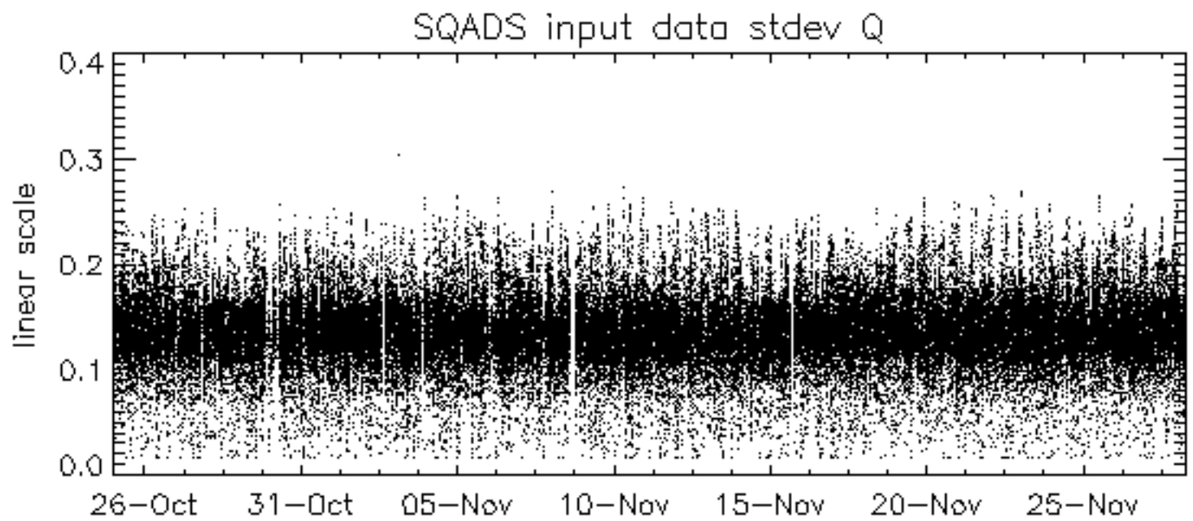

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov

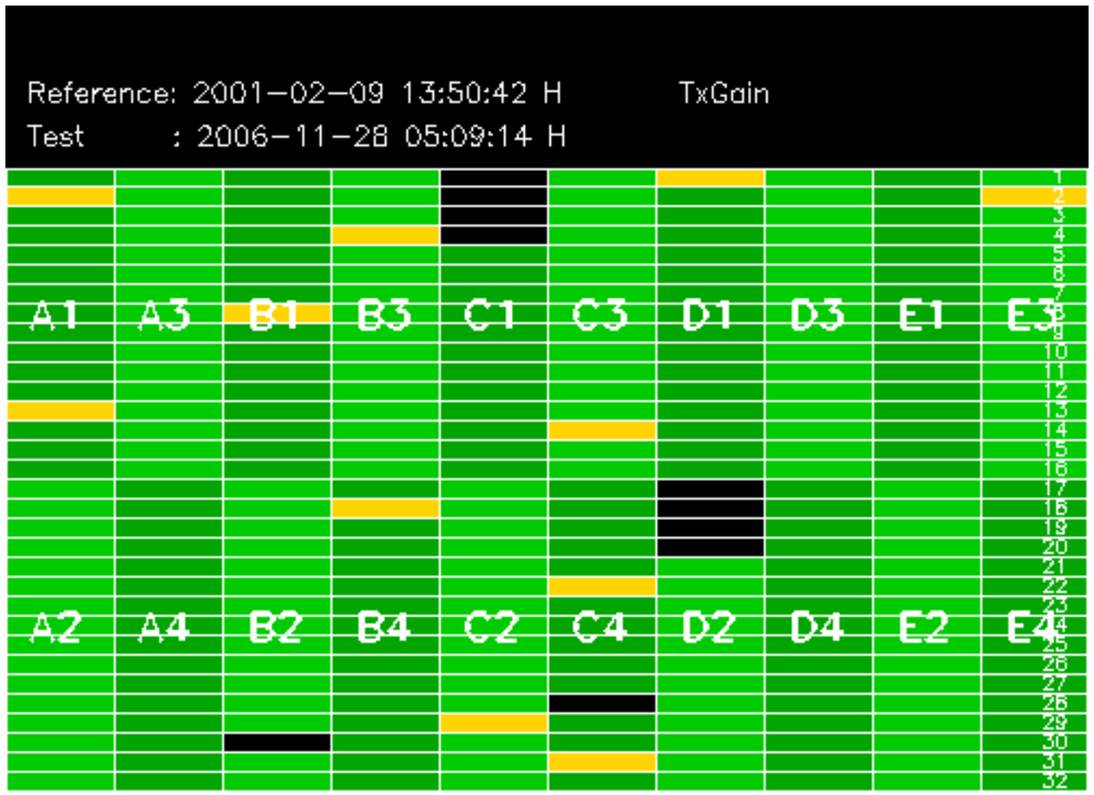

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov


Reference: 2001-02-09 13:50:42 H
Test : 2006-11-28 05:09:14 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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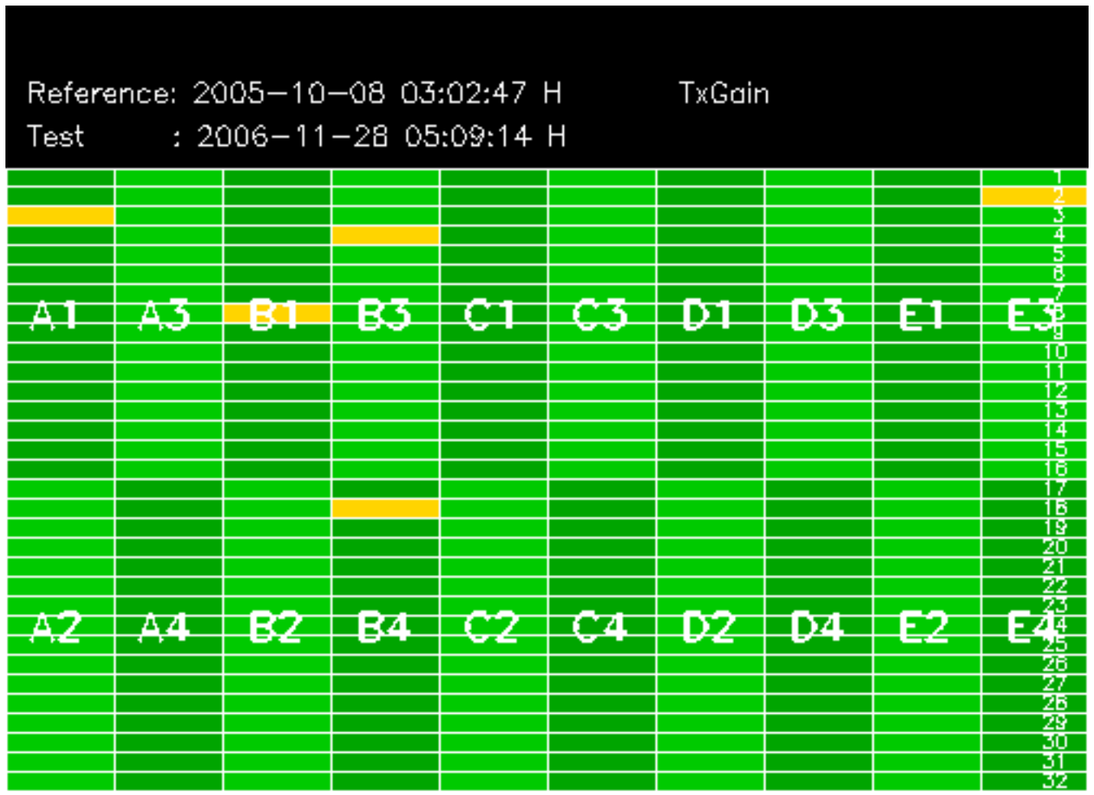
Reference: 2005-10-08 03:02:47 H
Test : 2006-11-28 05:09:14 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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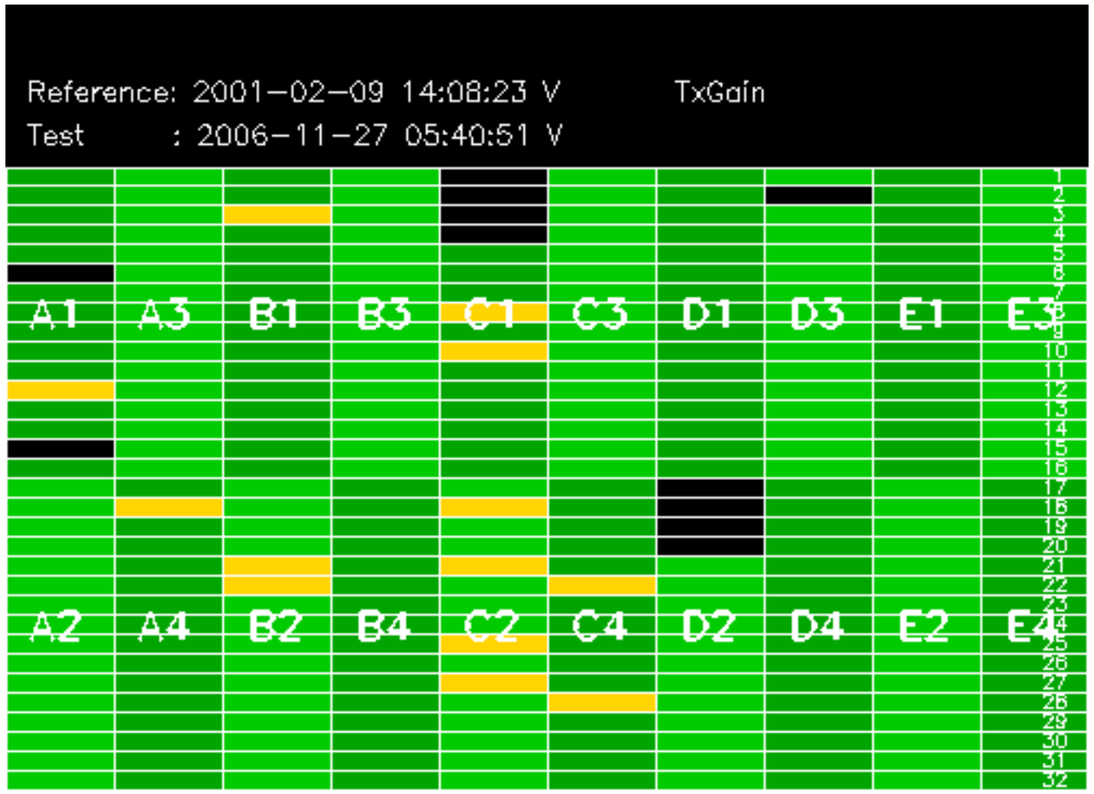
Reference: 2001-02-09 14:08:23 V
Test : 2006-11-27 05:40:51 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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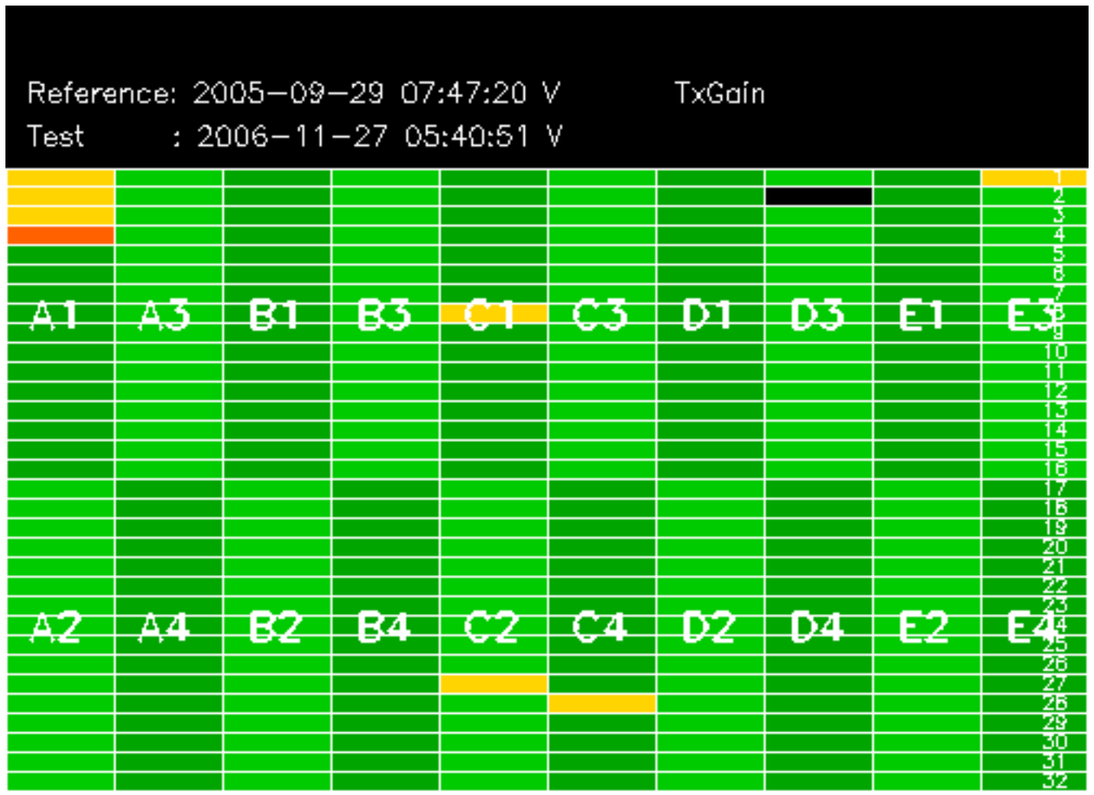
Reference: 2005-09-29 07:47:20 V
Test : 2006-11-27 05:40:51 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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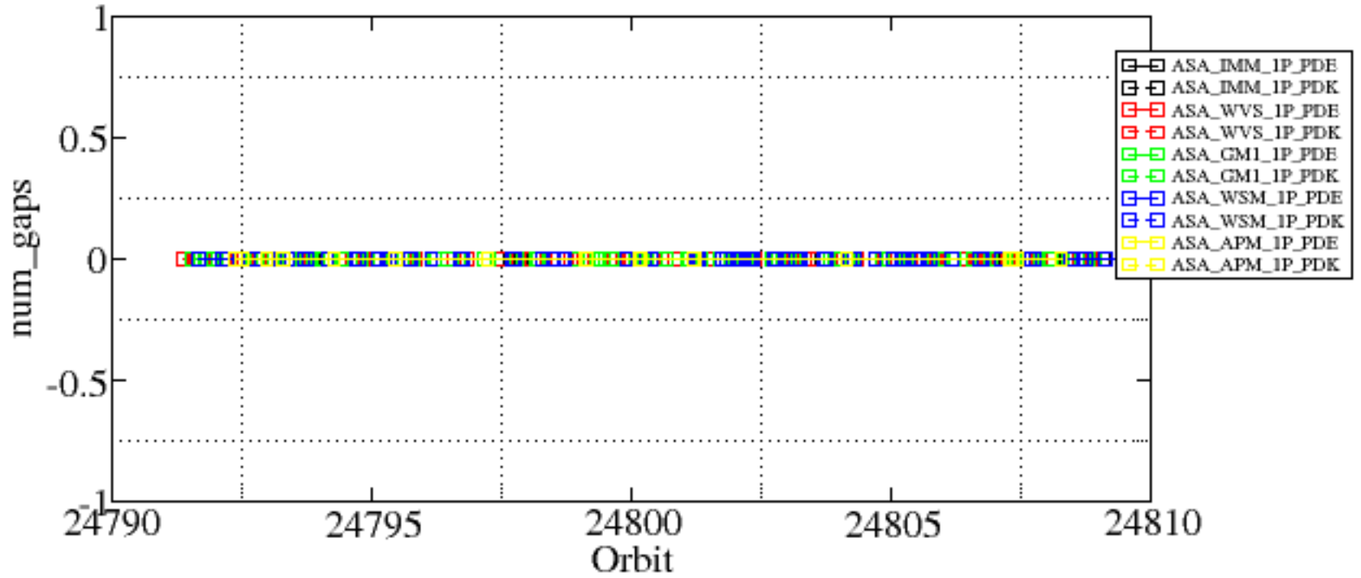
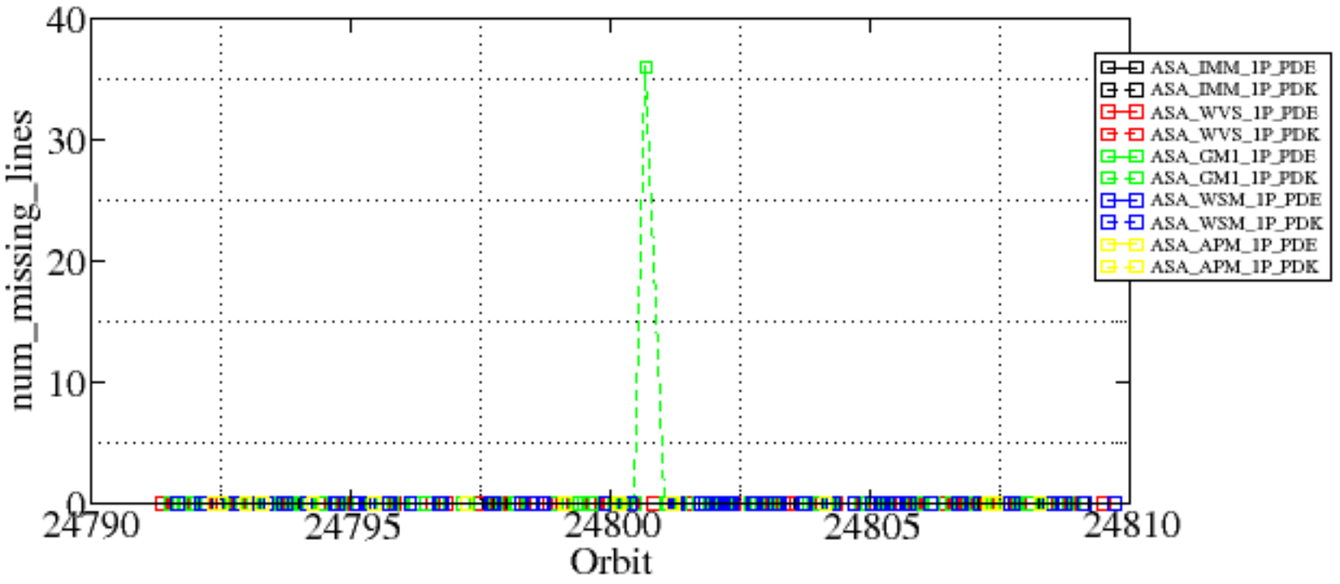
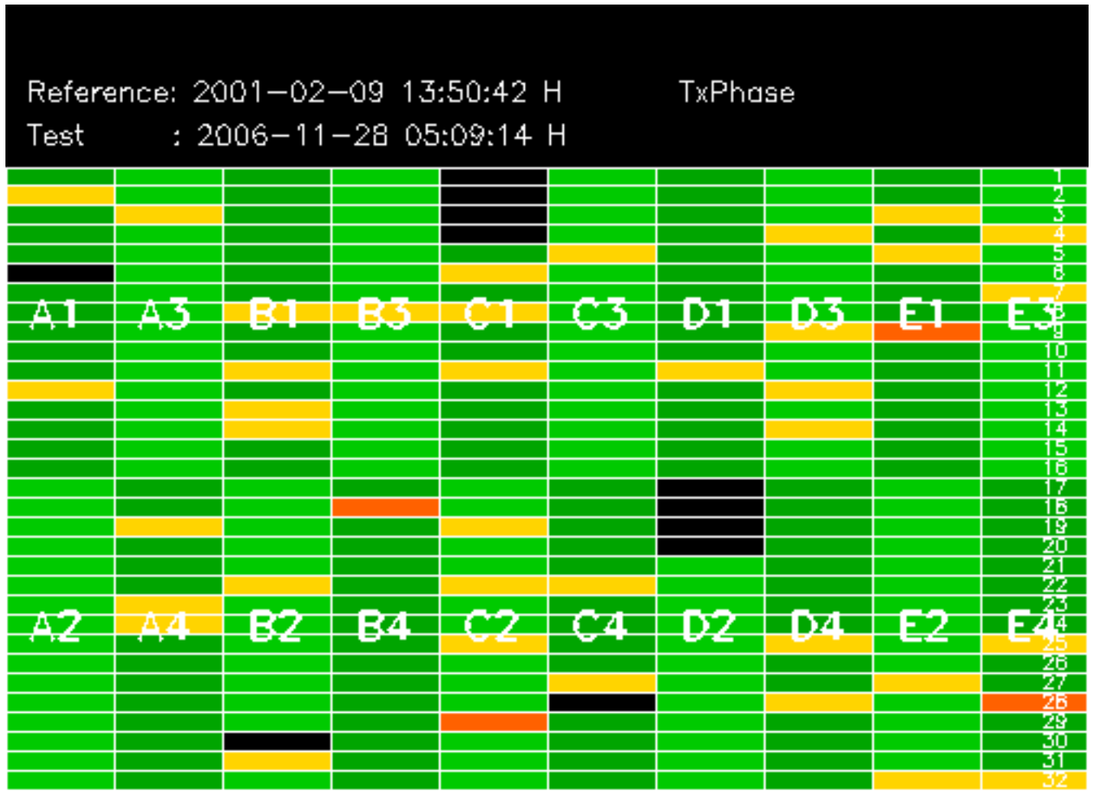
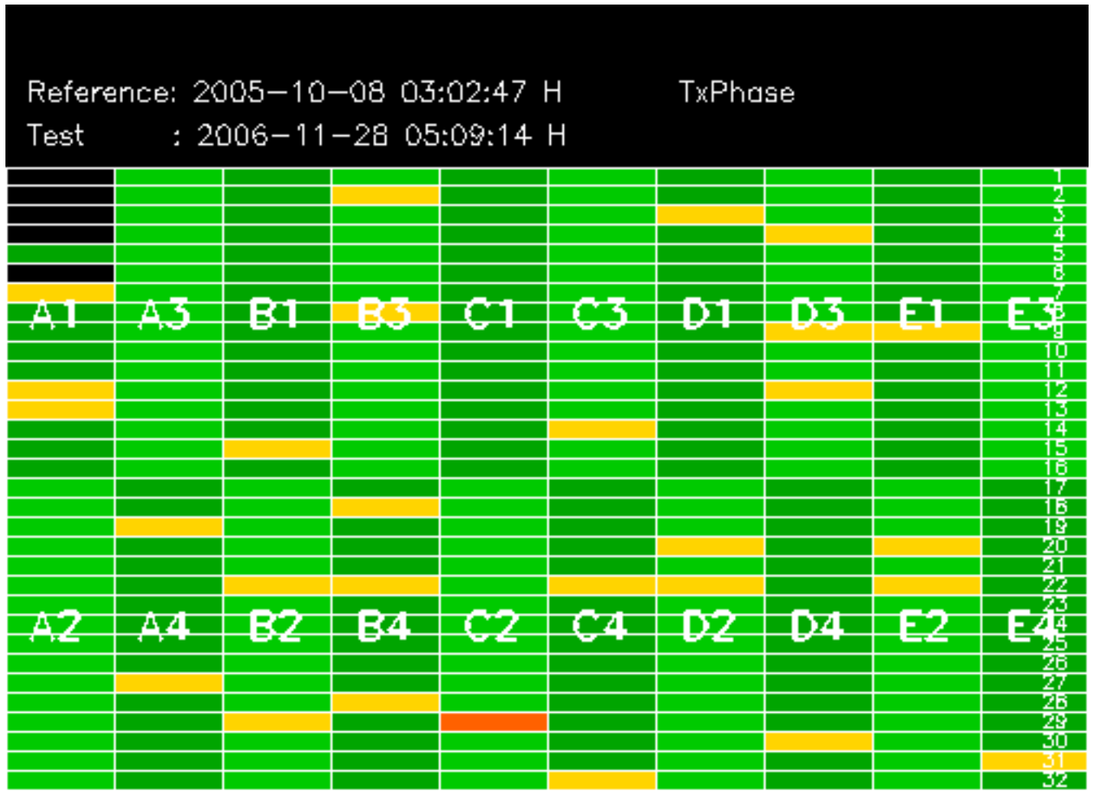
Summary of analysis for the last 3 days 2006112[789]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename                                                    </th><th>  num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_GM1_1PNPDK20061127_154433_000009242053_00197_24800_9420.N1 </td> <td>0         </td> <td>36        </td></tr>
</table><br><br><br>


num_gaps
1
0.5
0
-0.5
-1
24790
24795
24800
24805
24810
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
40
30
20
10
0
24790
24795
24800
24805
24810
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 : 2006-11-28 05:09:14 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 : 2006-11-28 05:09:14 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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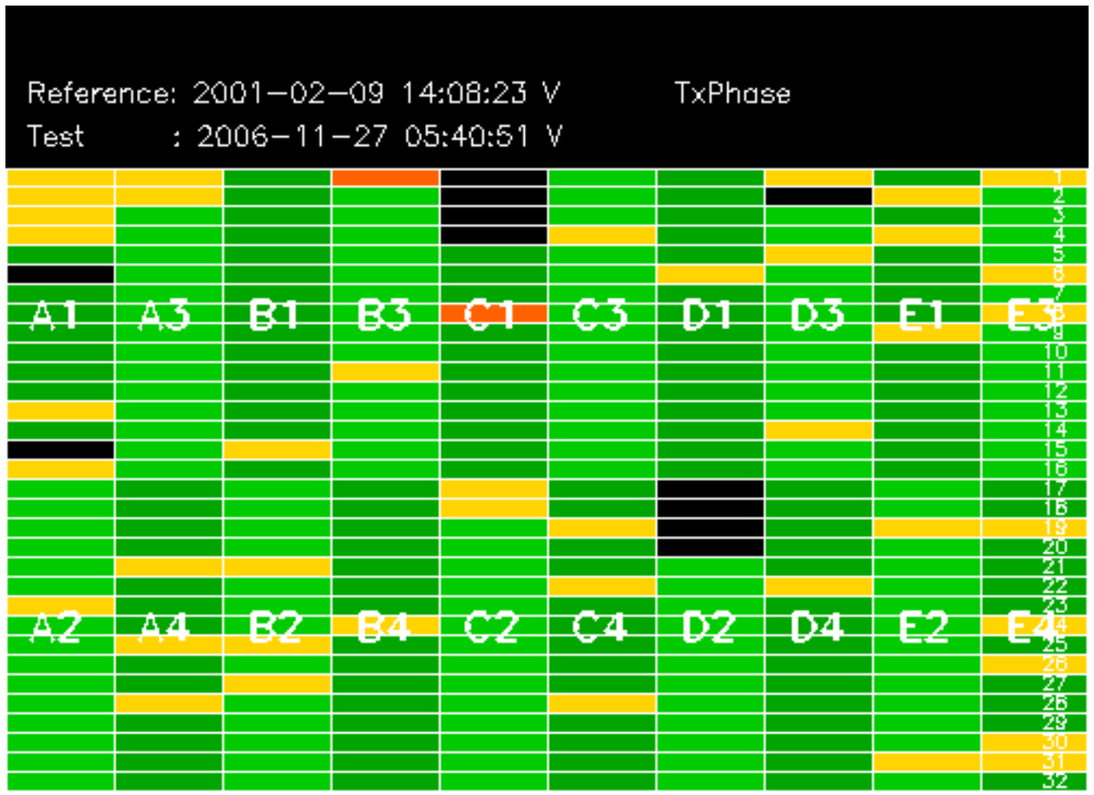
Reference: 2001-02-09 14:08:23 V
Test : 2006-11-27 05:40:51 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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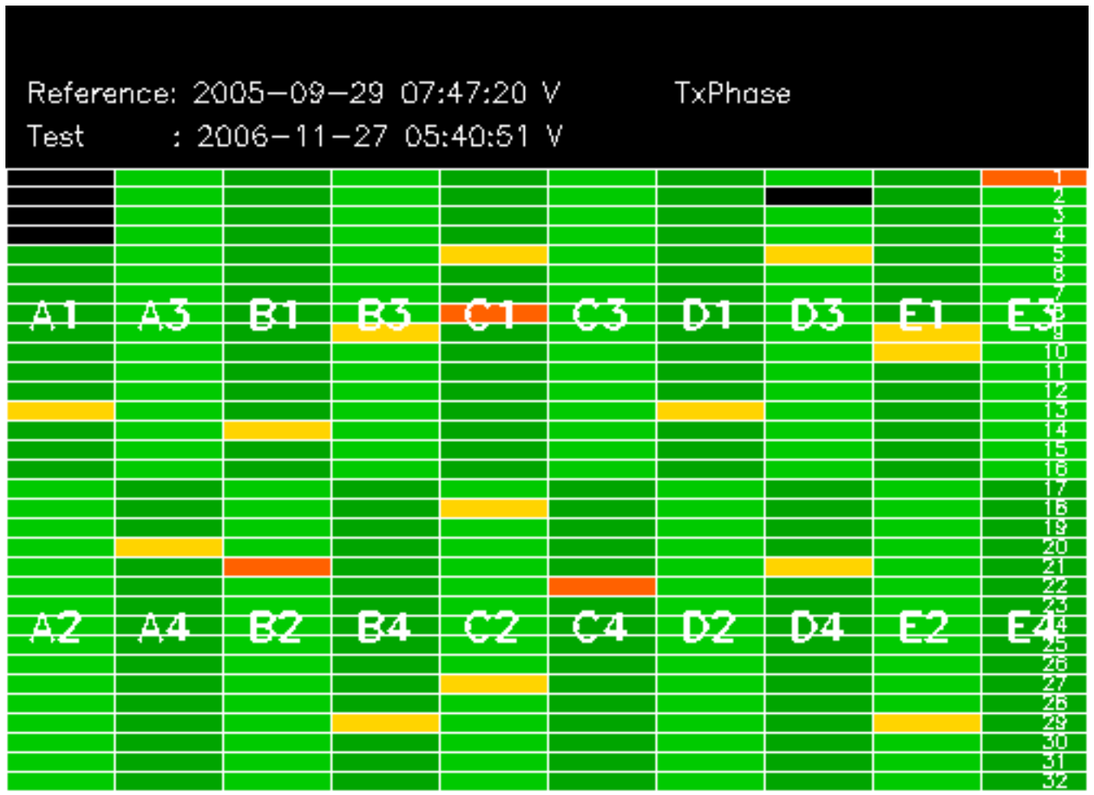
Reference: 2005-09-29 07:47:20 V
TxPhase
Test : 2006-11-27 05:40:51 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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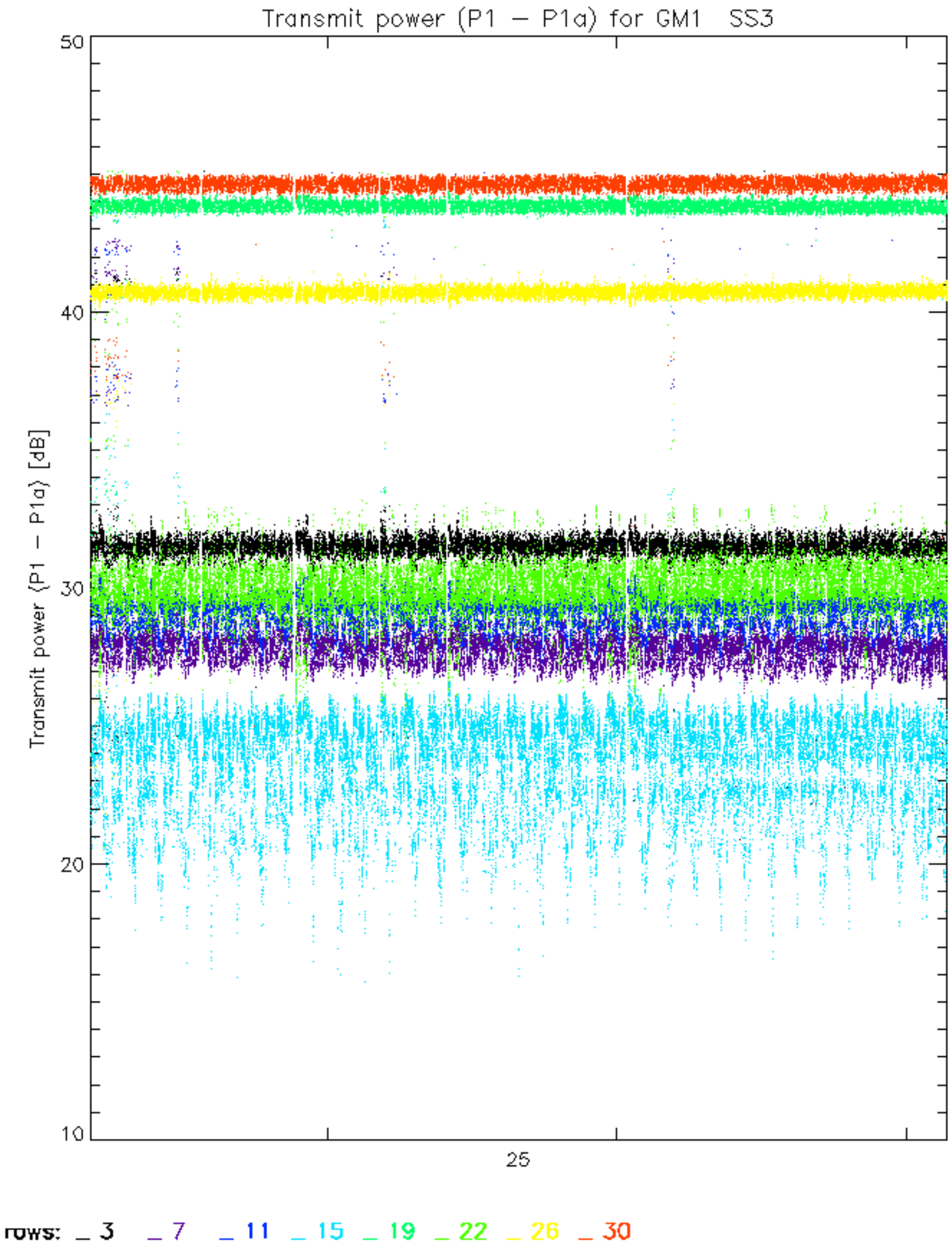
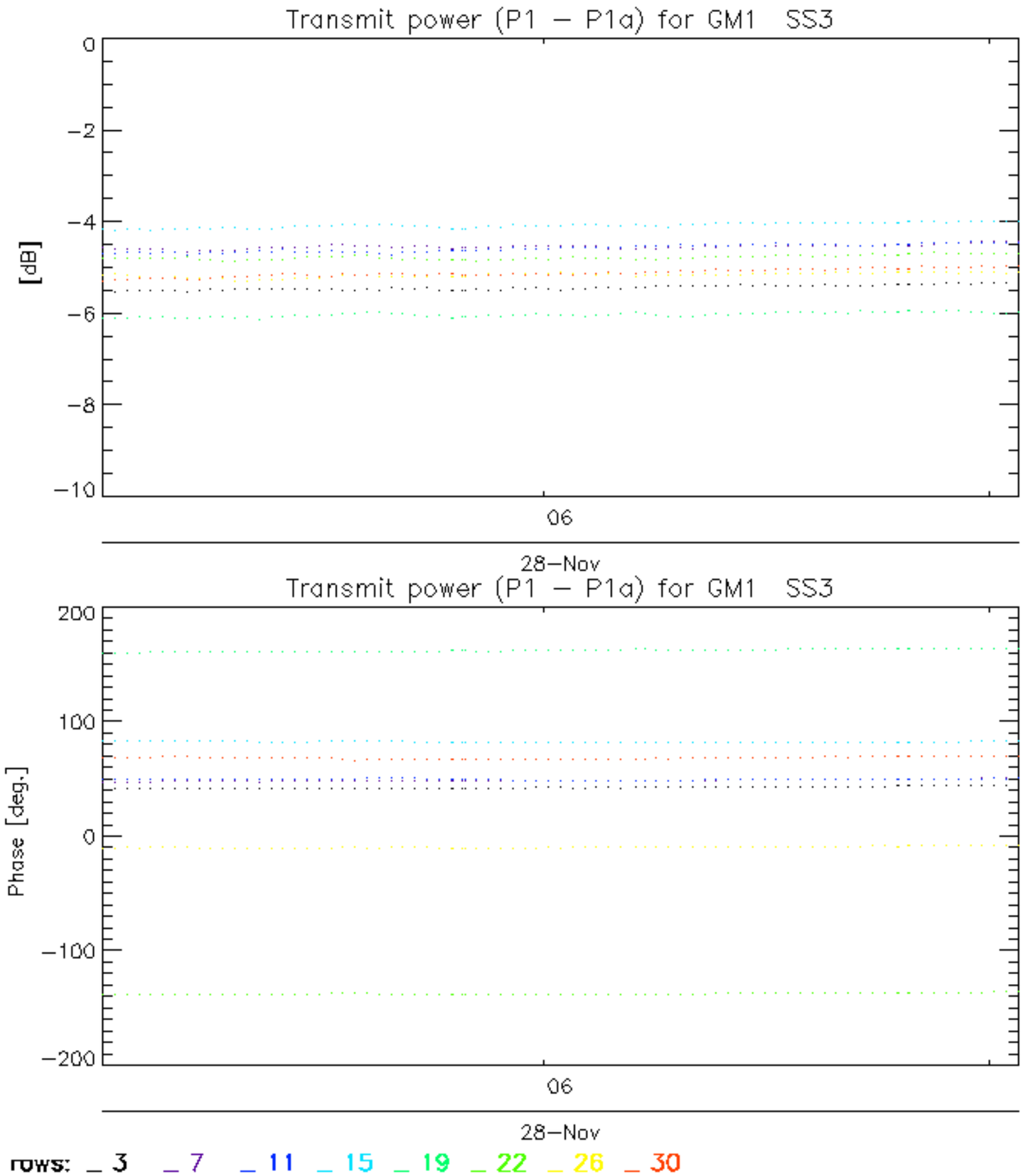
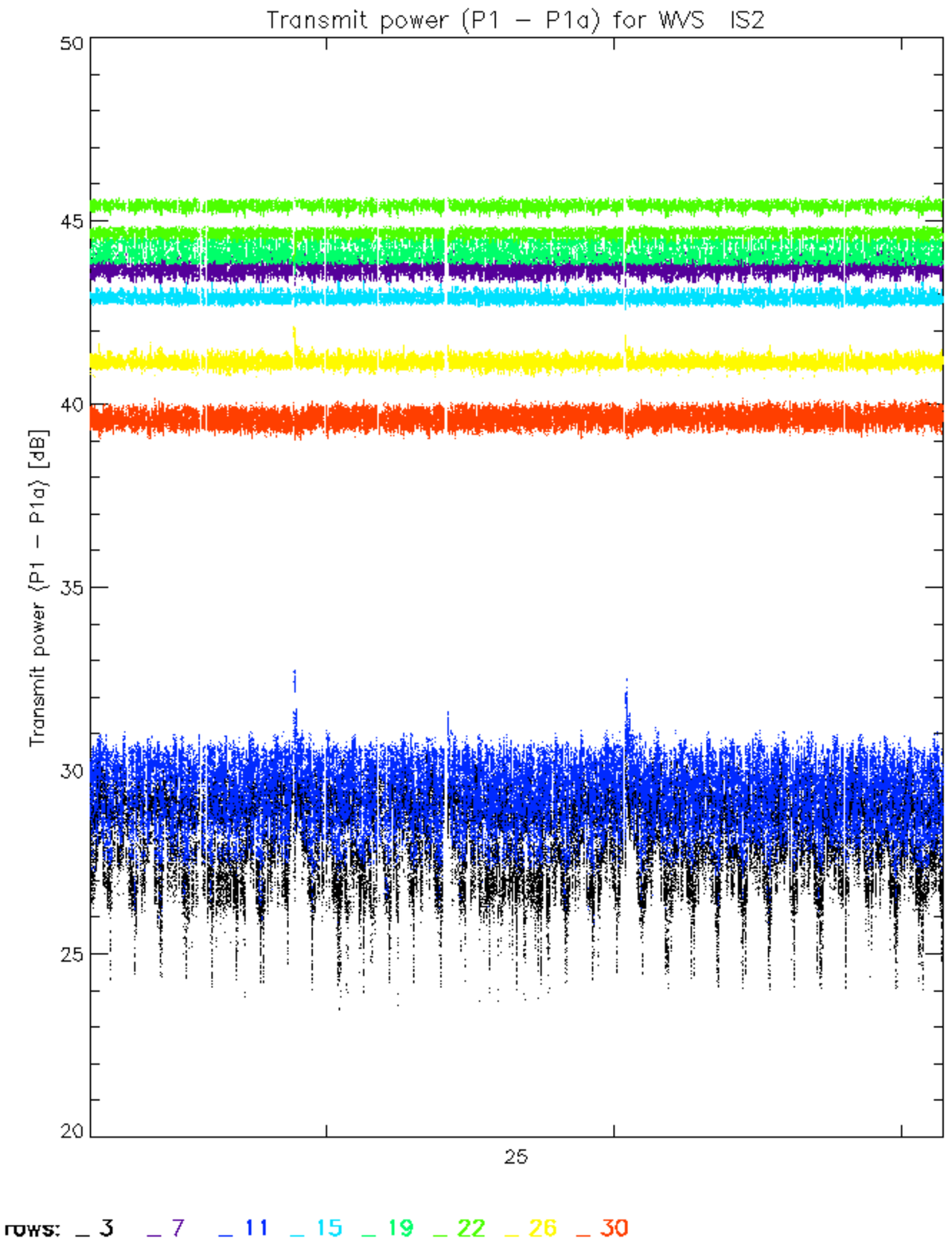
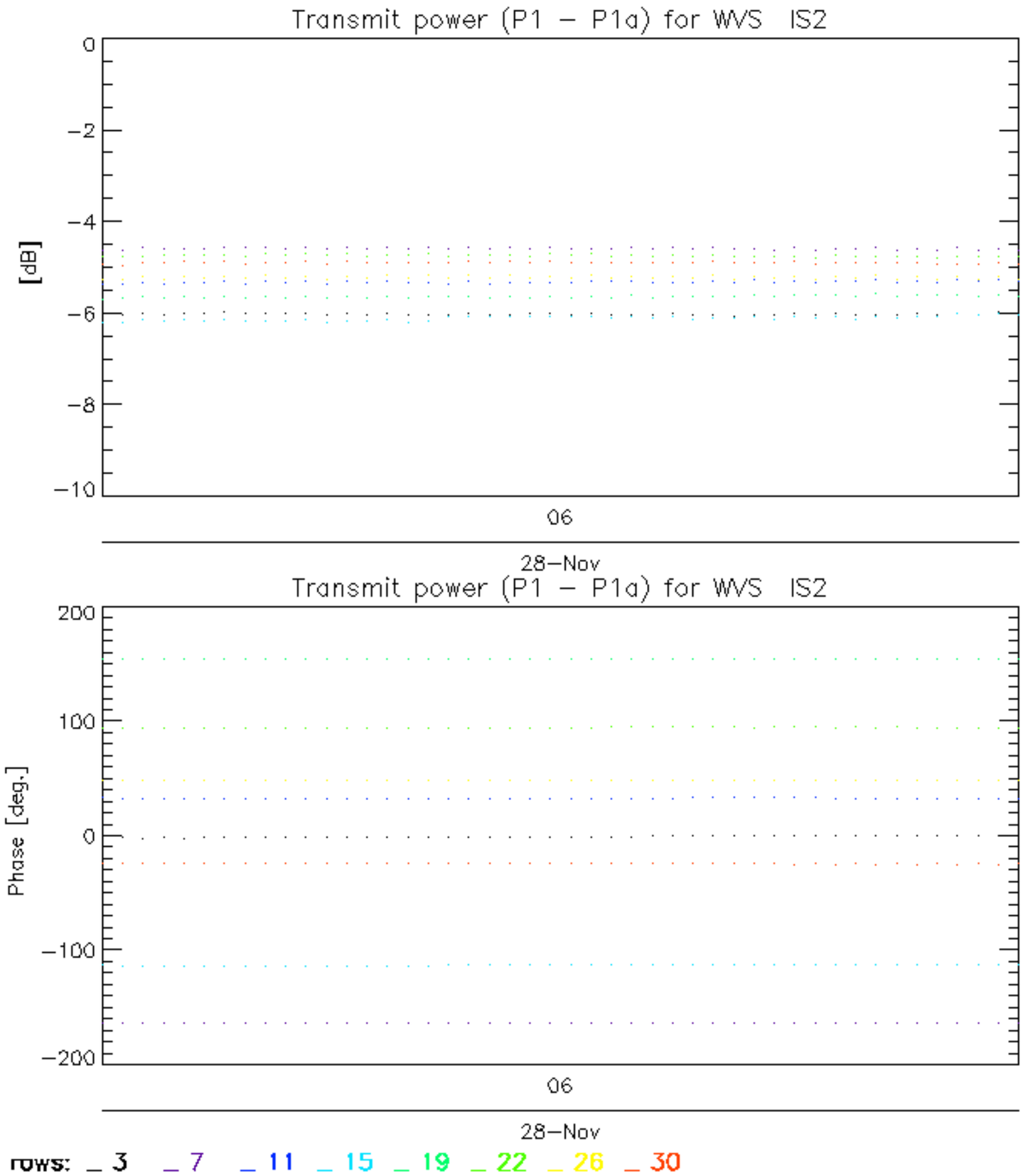

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
25
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
06
28–Nov
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
06
28–Nov
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
25
rows: 3 7 11 15 19 22 26 30


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

No unavailabilities during the reported period.