# PRELIMINARY REPORT OF 061122

### last update on Wed Nov 22 16:44:35 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 2006-11-21 00:00:00 to 2006-11-22 16:44:35**

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

| | | | | | |
|---|---|---|---|---|---|
| ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000 | 37 | 64 | 4 | 3 | 23 |
| ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000 | 37 | 64 | 4 | 3 | 23 |
| ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000 | 37 | 64 | 4 | 3 | 23 |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 37 | 64 | 4 | 3 | 23 |

| PDHS-E | | | | | |
|---|---|---|---|---|---|
| **AUXILIARY FILE** | **WVS** | **GM1** | **IMM** | **APM** | **WSM** |
| ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000 | 49 | 64 | 29 | 9 | 53 |
| ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000 | 49 | 64 | 29 | 9 | 53 |
| ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000 | 49 | 64 | 29 | 9 | 53 |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 49 | 64 | 29 | 9 | 53 |

### 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 | 20061121 085033 |
| H | 20061122 081856 |

**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 | -3.957686 | 0.008804 | -0.019487 |
| 7 | P1 | -3.149307 | 0.022898 | -0.040755 |
| 11 | P1 | -4.132443 | 0.024398 | -0.011901 |
| 15 | P1 | -6.286619 | 0.014470 | -0.071262 |
| 19 | P1 | -3.618684 | 0.063780 | 0.016186 |
| 22 | P1 | -4.670716 | 0.129489 | 0.087413 |
| 26 | P1 | -3.972284 | 0.086778 | 0.097744 |
| 30 | P1 | -5.890513 | 0.166906 | 0.086372 |
| 3 | P1 | -16.500521 | 0.235422 | -0.076708 |
| 7 | P1 | -17.271505 | 0.170378 | -0.076359 |
| 11 | P1 | -17.152479 | 0.452085 | -0.113161 |
| 15 | P1 | -13.056404 | 0.131025 | -0.087293 |
| 19 | P1 | -14.916549 | 0.372896 | 0.001328 |
| 22 | P1 | -15.868688 | 0.508663 | -0.012416 |
| 26 | P1 | -15.060122 | 0.203381 | 0.053538 |
| 30 | P1 | -17.411329 | 0.610863 | -0.371939 |

### P2 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P2 | -20.846375 | 0.090842 | 0.012627 |
| 7 | P2 | -21.732349 | 0.093998 | 0.001792 |
| 11 | P2 | -15.659116 | 0.103016 | 0.019937 |
| 15 | P2 | -7.121798 | 0.106524 | -0.024378 |
| 19 | P2 | -9.188802 | 0.104040 | -0.028754 |
| 22 | P2 | -18.226877 | 0.096508 | -0.052201 |
| 26 | P2 | -16.540791 | 0.110016 | -0.081596 |
| 30 | P2 | -19.474827 | 0.088893 | -0.011562 |

### P3 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P3 | -8.236784 | 0.008331 | -0.037054 |
| 7 | P3 | -8.236784 | 0.008331 | -0.037054 |
| 11 | P3 | -8.236784 | 0.008331 | -0.037054 |
| 15 | P3 | -8.236784 | 0.008331 | -0.037054 |
| 19 | P3 | -8.236784 | 0.008331 | -0.037054 |
| 22 | P3 | -8.236784 | 0.008331 | -0.037054 |
| 26 | P3 | -8.236807 | 0.008343 | -0.037162 |
| 30 | P3 | -8.236807 | 0.008343 | -0.037162 |

#### 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 | -3.907965 | 0.055281 | -0.015001 |
| 7 | P1 | -2.525512 | 0.326850 | 0.062381 |
| 11 | P1 | -2.863975 | 0.049785 | 0.022772 |
| 15 | P1 | -3.678387 | 0.057759 | -0.032422 |
| 19 | P1 | -3.539597 | 0.112351 | 0.060322 |
| 22 | P1 | -5.060720 | 0.087658 | 0.094056 |
| 26 | P1 | -6.023060 | 0.183957 | 0.076194 |
| 30 | P1 | -5.328663 | 0.111277 | 0.030879 |
| 3 | P1 | -11.715497 | 0.134523 | -0.049416 |
| 7 | P1 | -10.059582 | 0.421579 | -0.003202 |
| 11 | P1 | -10.333978 | 0.145663 | 0.033922 |
| 15 | P1 | -10.763058 | 0.216022 | 0.063080 |
| 19 | P1 | -15.789869 | 2.128568 | 0.402400 |
| 22 | P1 | -21.366713 | 1.538246 | -0.442927 |
| 26 | P1 | -16.041986 | 0.395638 | -0.083194 |
| 30 | P1 | -17.908957 | 0.414528 | 0.054337 |

**P2 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P2 | -16.454554 | 0.118040 | -0.041319 |
| 7 | P2 | -22.208286 | 0.445722 | -0.084284 |
| 11 | P2 | -10.936979 | 0.115135 | -0.041246 |
| 15 | P2 | -4.959456 | 0.123954 | -0.053457 |
| 19 | P2 | -6.942118 | 0.173271 | -0.057310 |
| 22 | P2 | -8.256680 | 0.190285 | -0.021220 |
| 26 | P2 | -24.304453 | 0.315743 | -0.103015 |
| 30 | P2 | -21.947506 | 0.191297 | -0.026815 |

**P3 Cyclic statistics**

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|---|---|---|---|---|
| 3 | P3 | -8.083058 | 0.003293 | -0.029467 |
| 7 | P3 | -8.083076 | 0.003275 | -0.029843 |
| 11 | P3 | -8.083136 | 0.003276 | -0.029853 |
| 15 | P3 | -8.083031 | 0.003277 | -0.029776 |
| 19 | P3 | -8.083037 | 0.003289 | -0.029821 |
| 22 | P3 | -8.082989 | 0.003285 | -0.029861 |
| 26 | P3 | -8.083015 | 0.003279 | -0.029554 |
| 30 | P3 | -8.083054 | 0.003287 | -0.029710 |

### 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 | 0.000543641 |
| | stdev | 1.79441e-07 |
| MEAN Q | mean | 0.000519969 |
| | stdev | 2.21113e-07 |



### 5.2 - Input stdev I/Q

| channel | stat | DSS-B |
|---|---|---|
| STDEV I | mean | 0.135991 |
| | stdev | 0.00111173 |
| STDEV Q | mean | 0.136349 |
| | stdev | 0.00112851 |



### 5.3 - Gain imbalance I/Q



## 6 - Telemetry analysis

Summary of analysis for the last 3 days 2006112[012]
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_1PNPDK20061121_175710_000004892053_00113_24716_9089.N1 | 0 | 23 |
| ASA_WSM_1PNPDE20061120_140442_000002022053_00096_24699_0001.N1 | 0 | 34 |
| ASA_WSM_1PNPDE20061120_182348_000001652053_00099_24702_0001.N1 | 0 | 18 |
| ASA_WSM_1PNPDE20061121_133205_000001592053_00110_24713_3226.N1 | 0 | 34 |

# 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 |

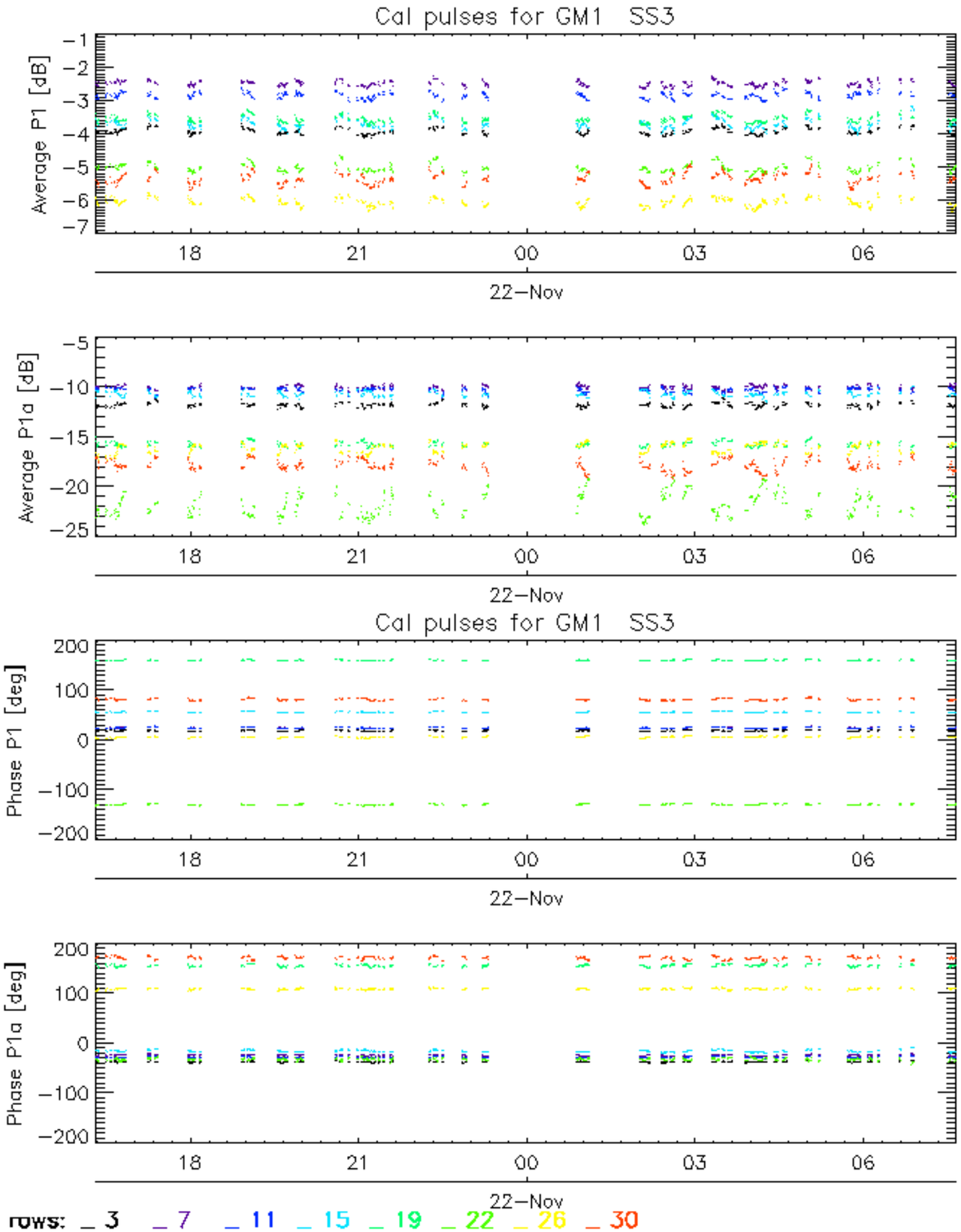
| |
|---|
| Descending |

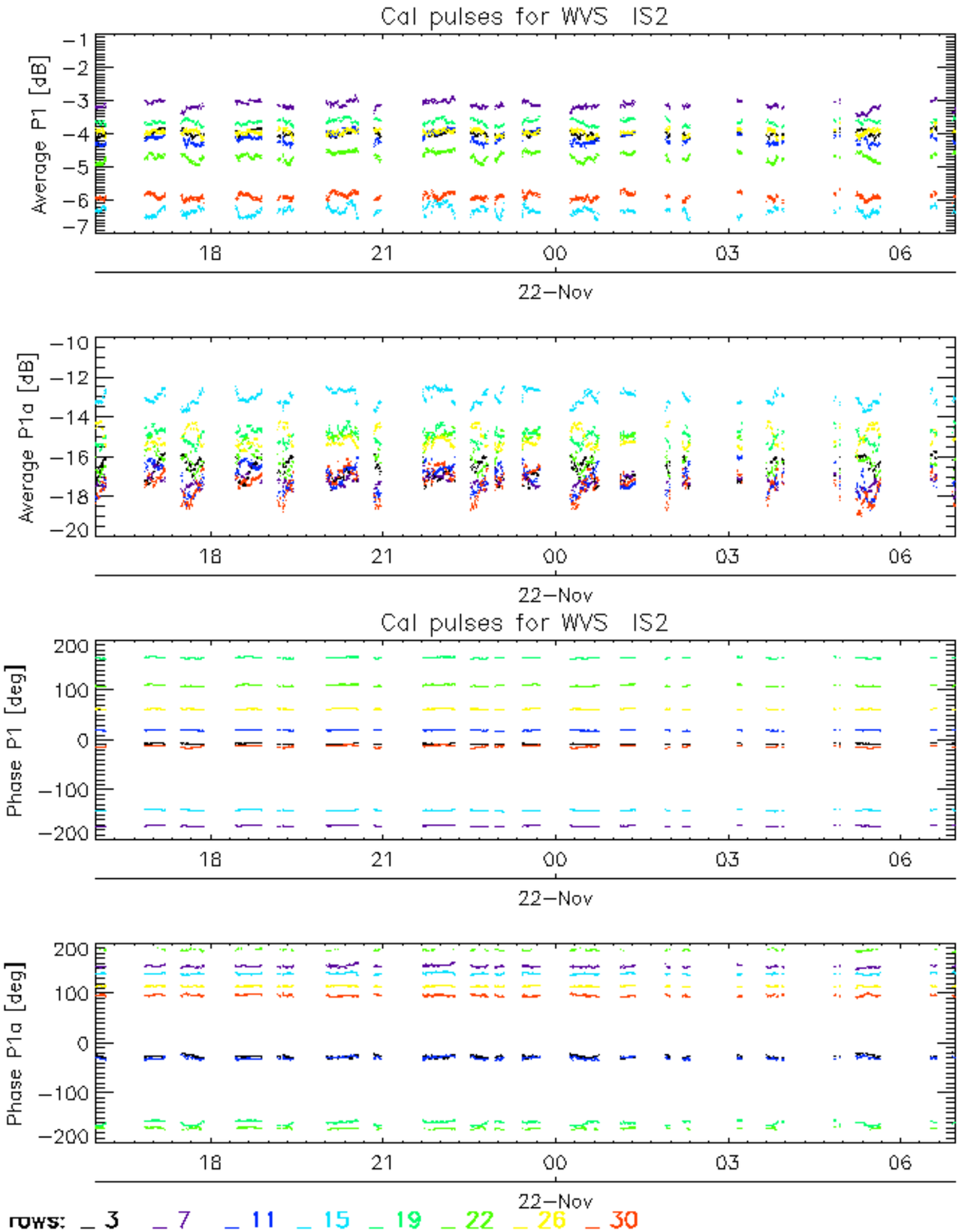
## 7.5 - Absolute Doppler for GM1

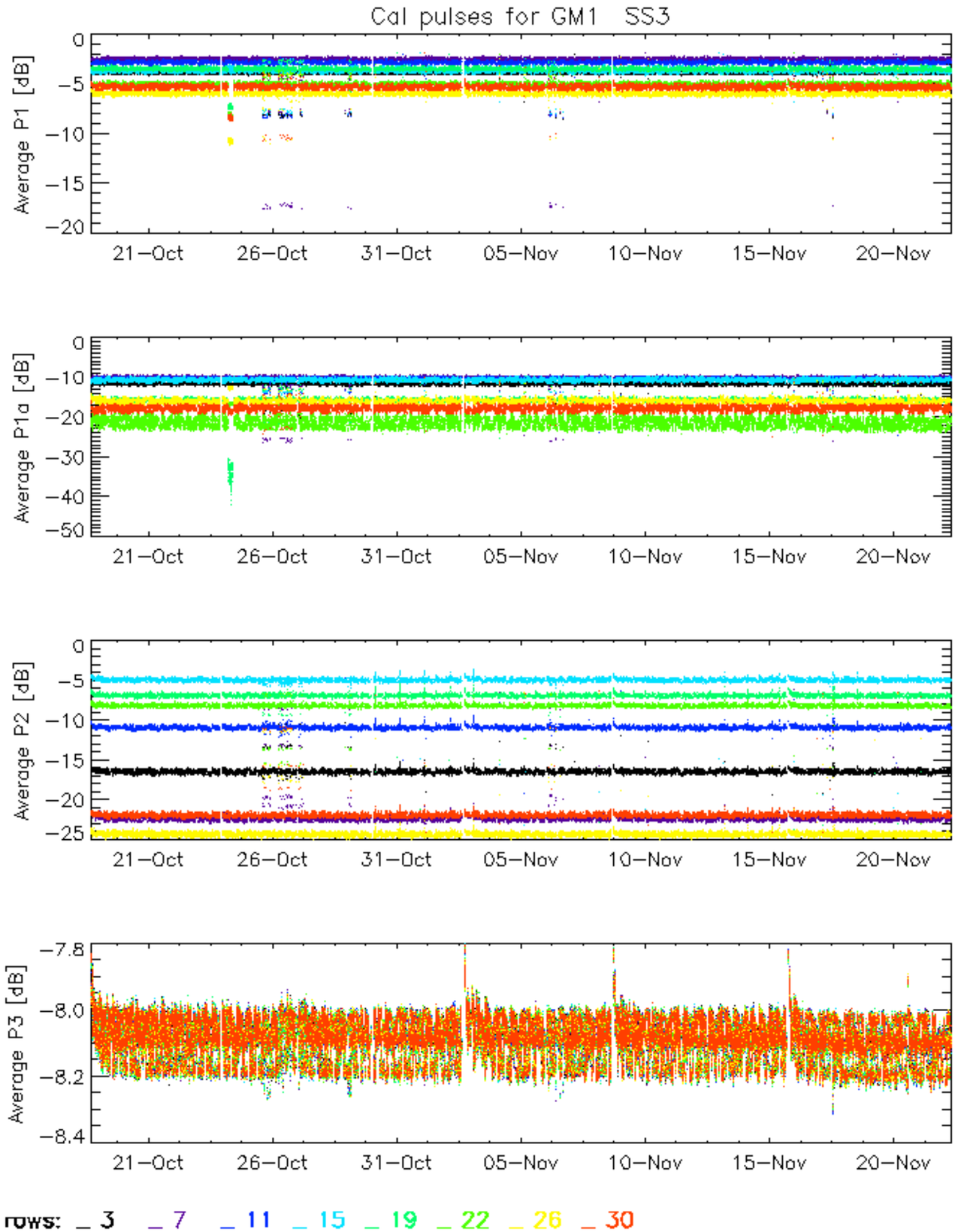
| **Evolution of Absolute Doppler** |
|---|
| |
| Acsending |
| |
| Descending |

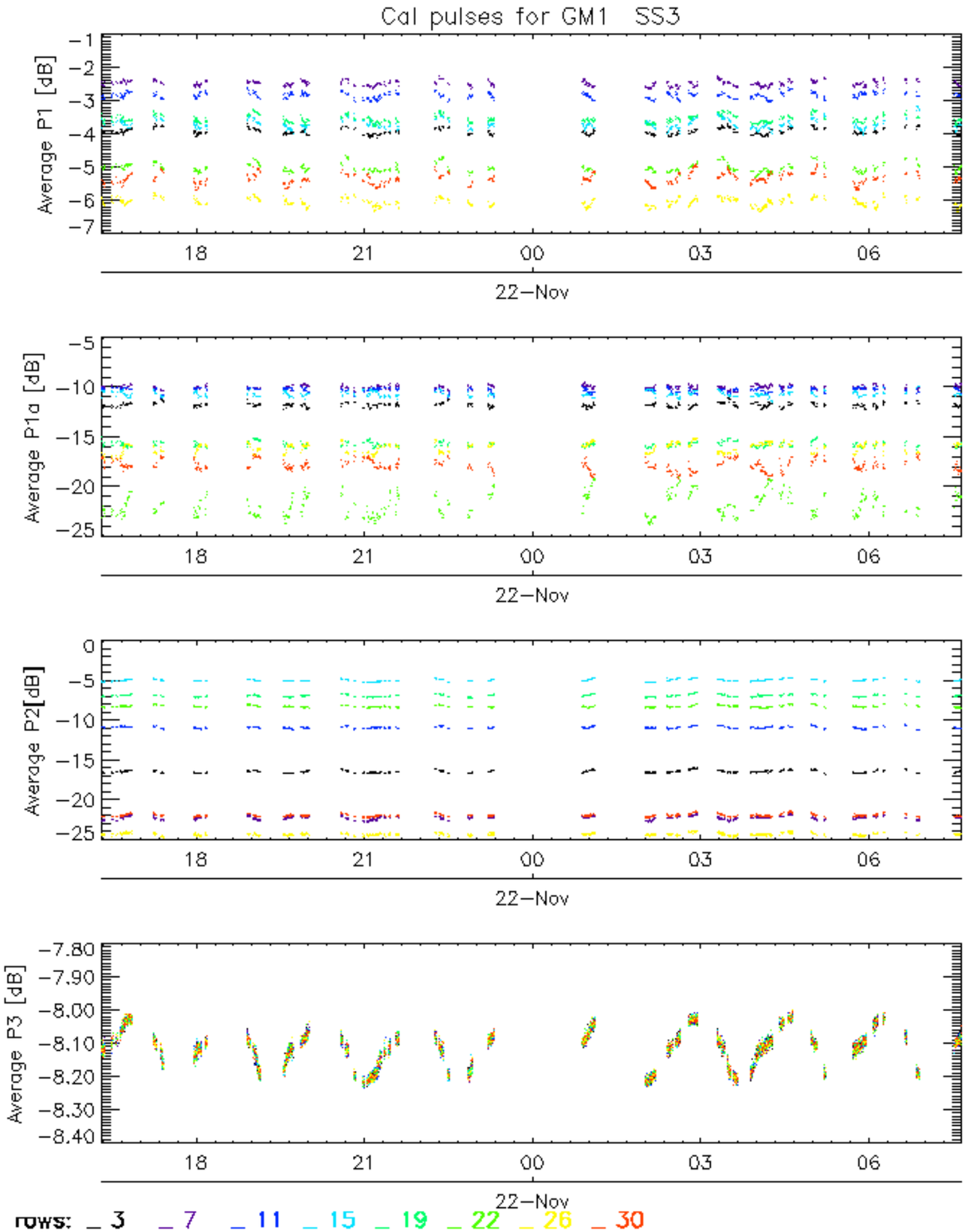
## 7.6 - Doppler evolution versus ANX for GM1

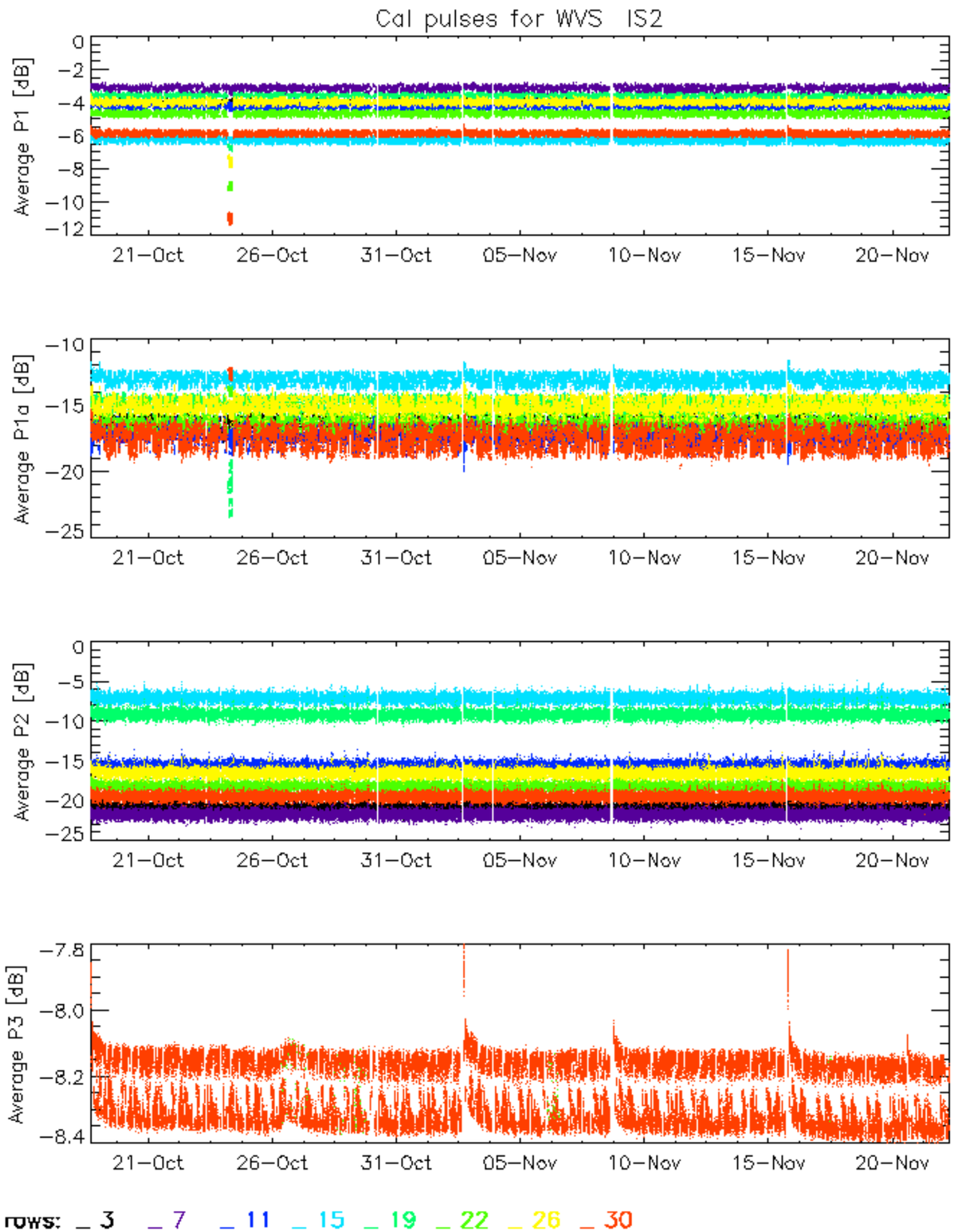
| **Evolution Doppler error versus ANX** |
|---|
| |

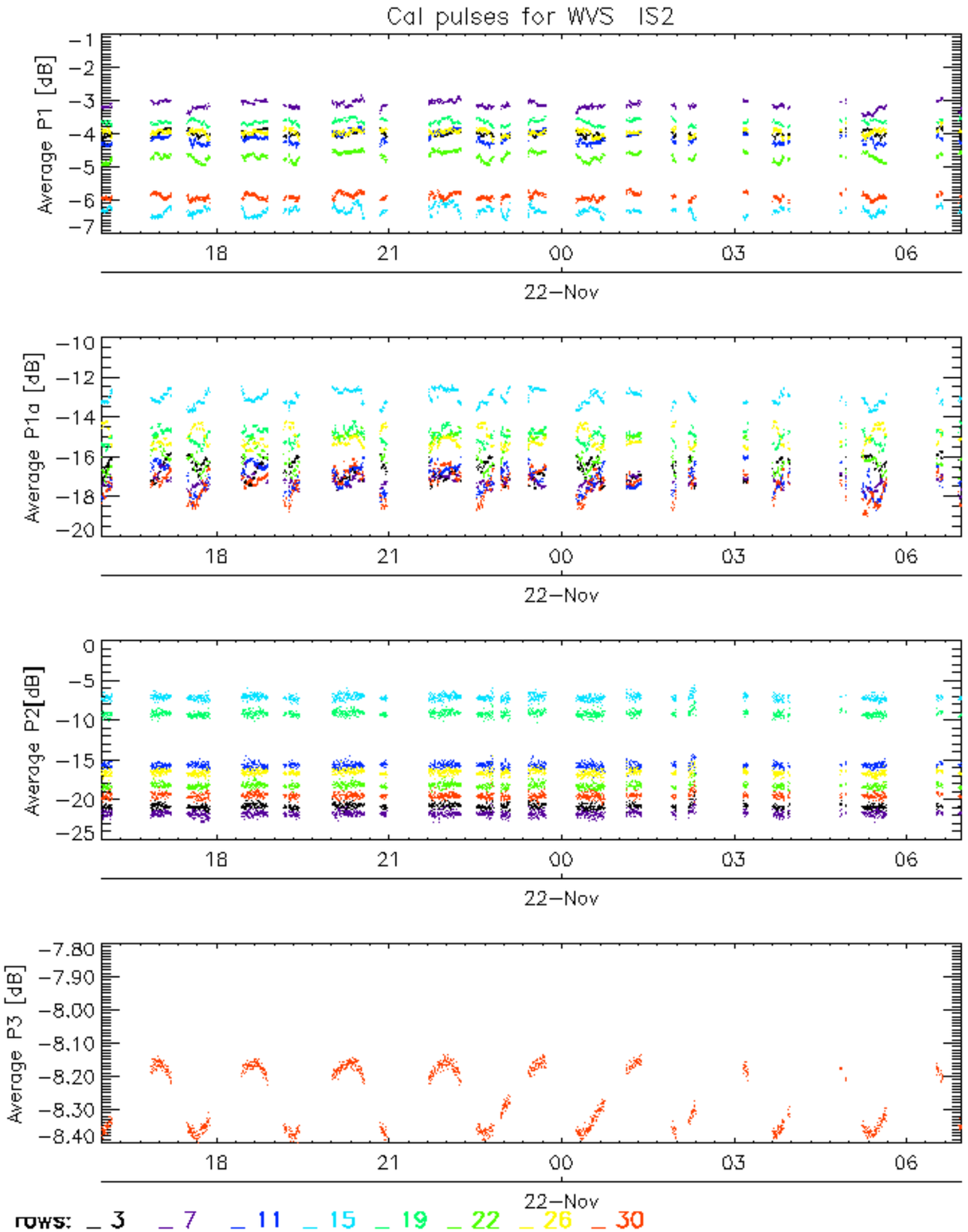

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
22−Nov
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
22−Nov
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
22−Nov
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
22−Nov
rows: _ 3 _ 7 _ 11 _ 15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


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

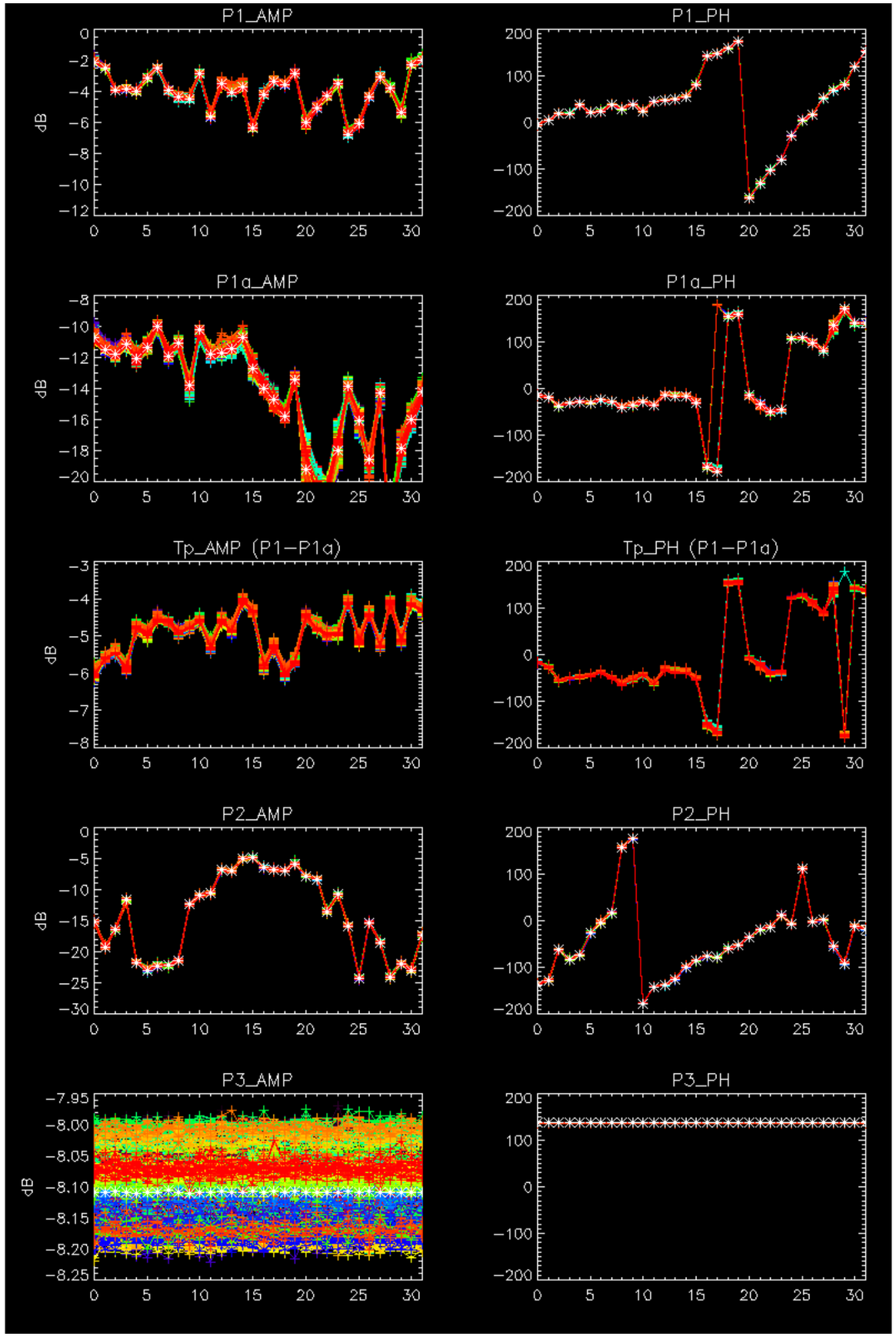

Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
Average P1a [dB]
0
−10
−20
−30
−40
−50
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
Average P2 [dB]
0
−5
−10
−15
−20
−25
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

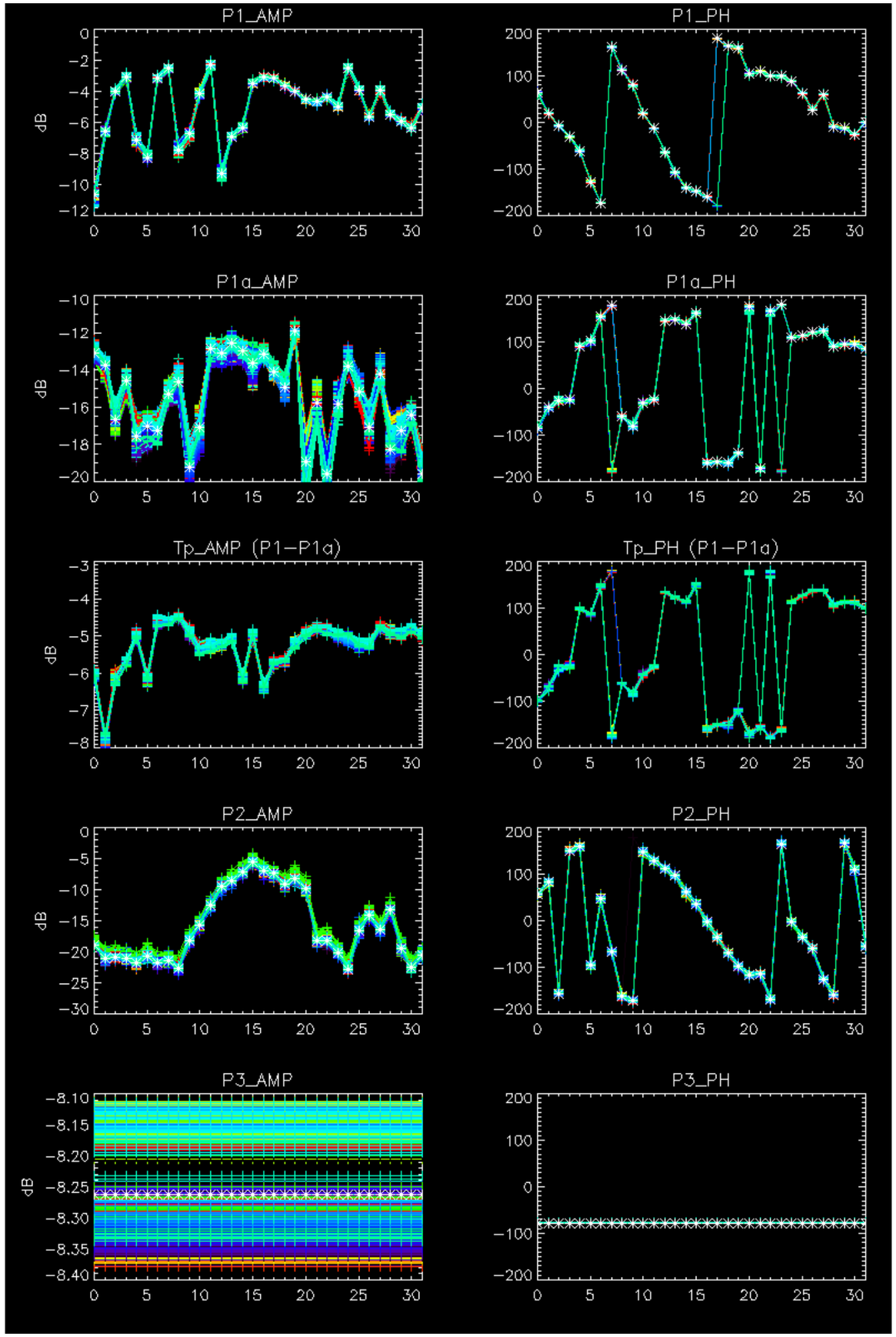

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
22−Nov
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
22−Nov
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
22−Nov
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
22−Nov
rows: _ 3 _ 7 _ 11 _ 15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


Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
Average P1a [dB]
−10
−15
−20
−25
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
22−Nov
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
22−Nov
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
22−Nov
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
22−Nov
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

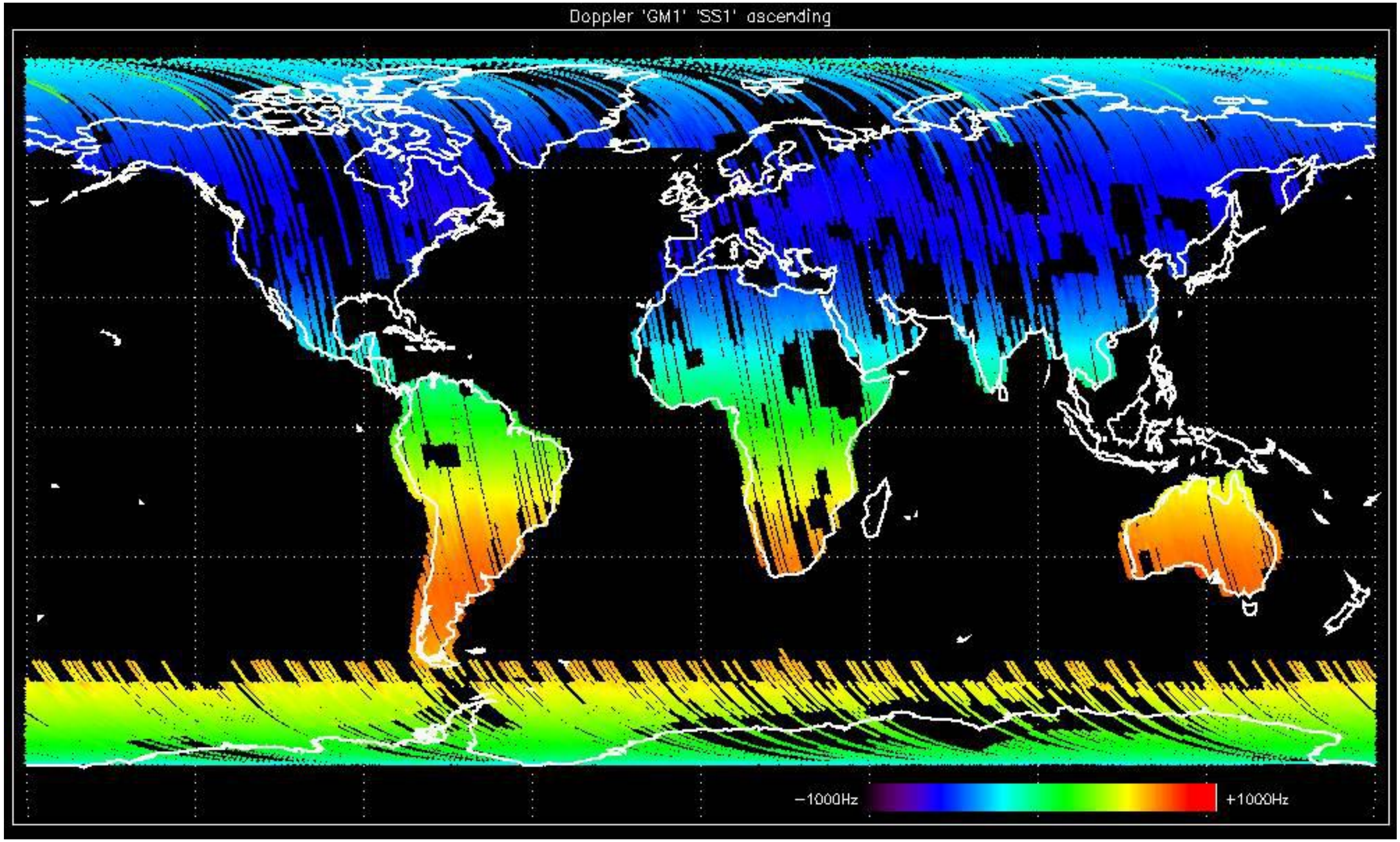
No anomalies observed.

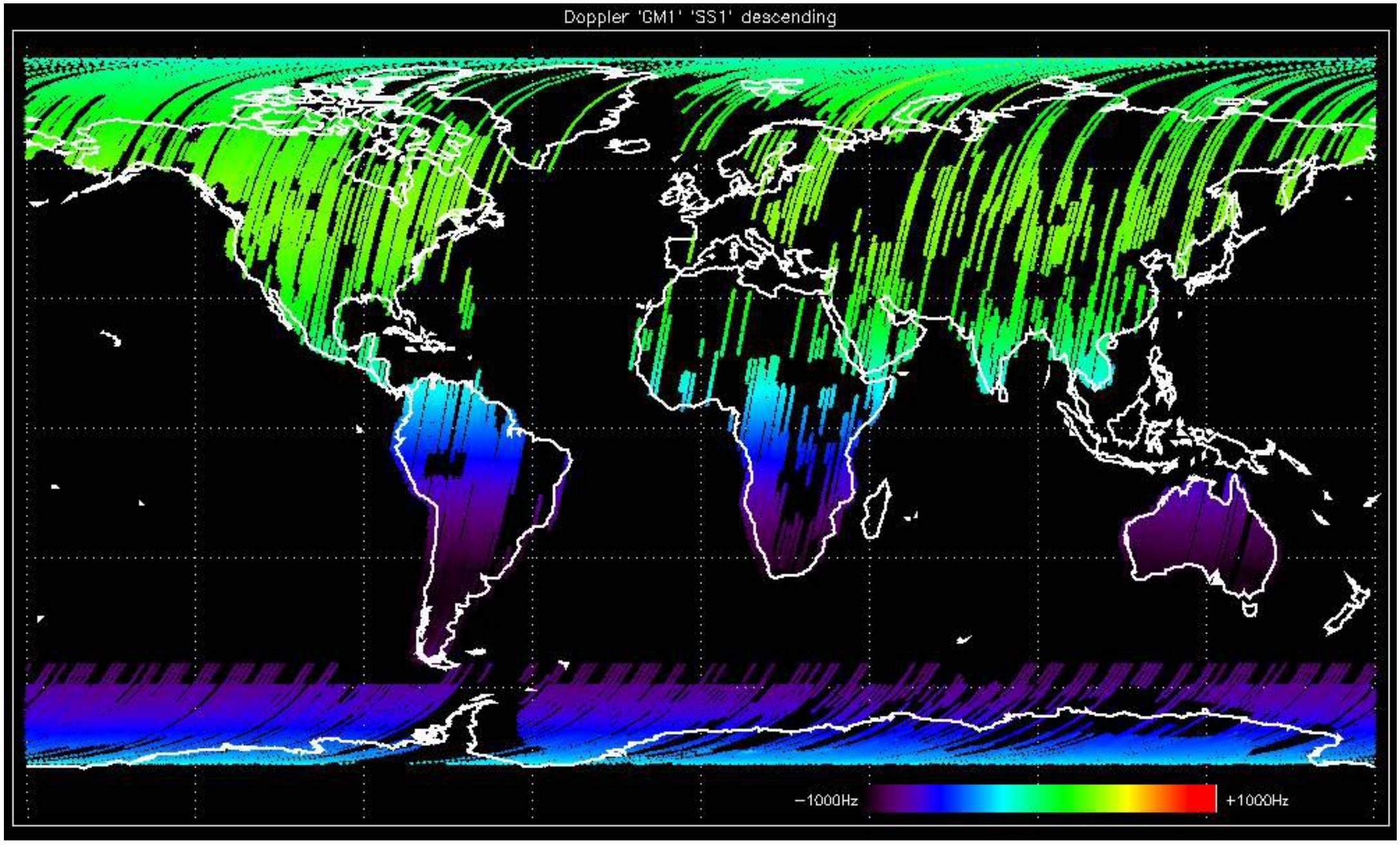

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

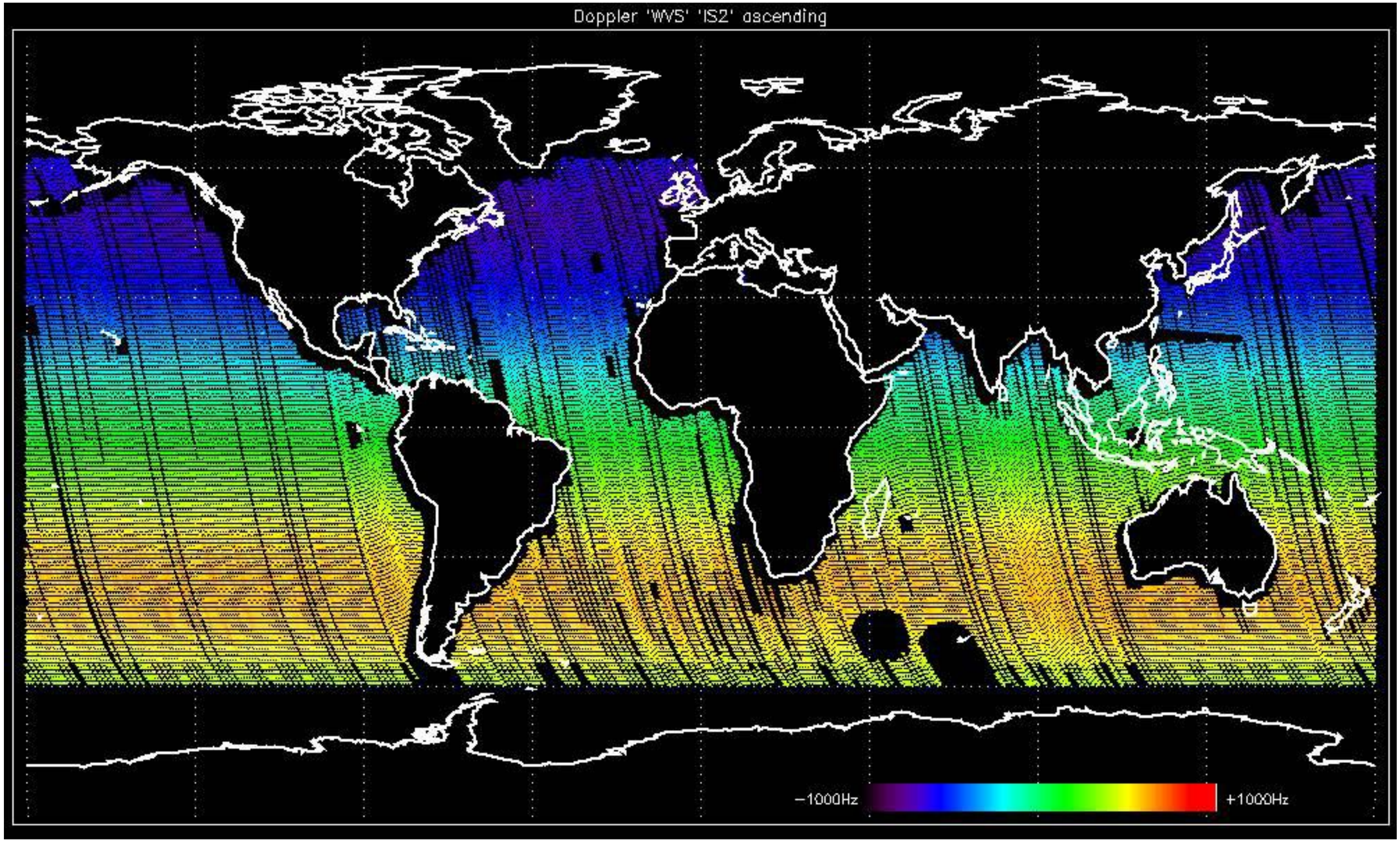

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

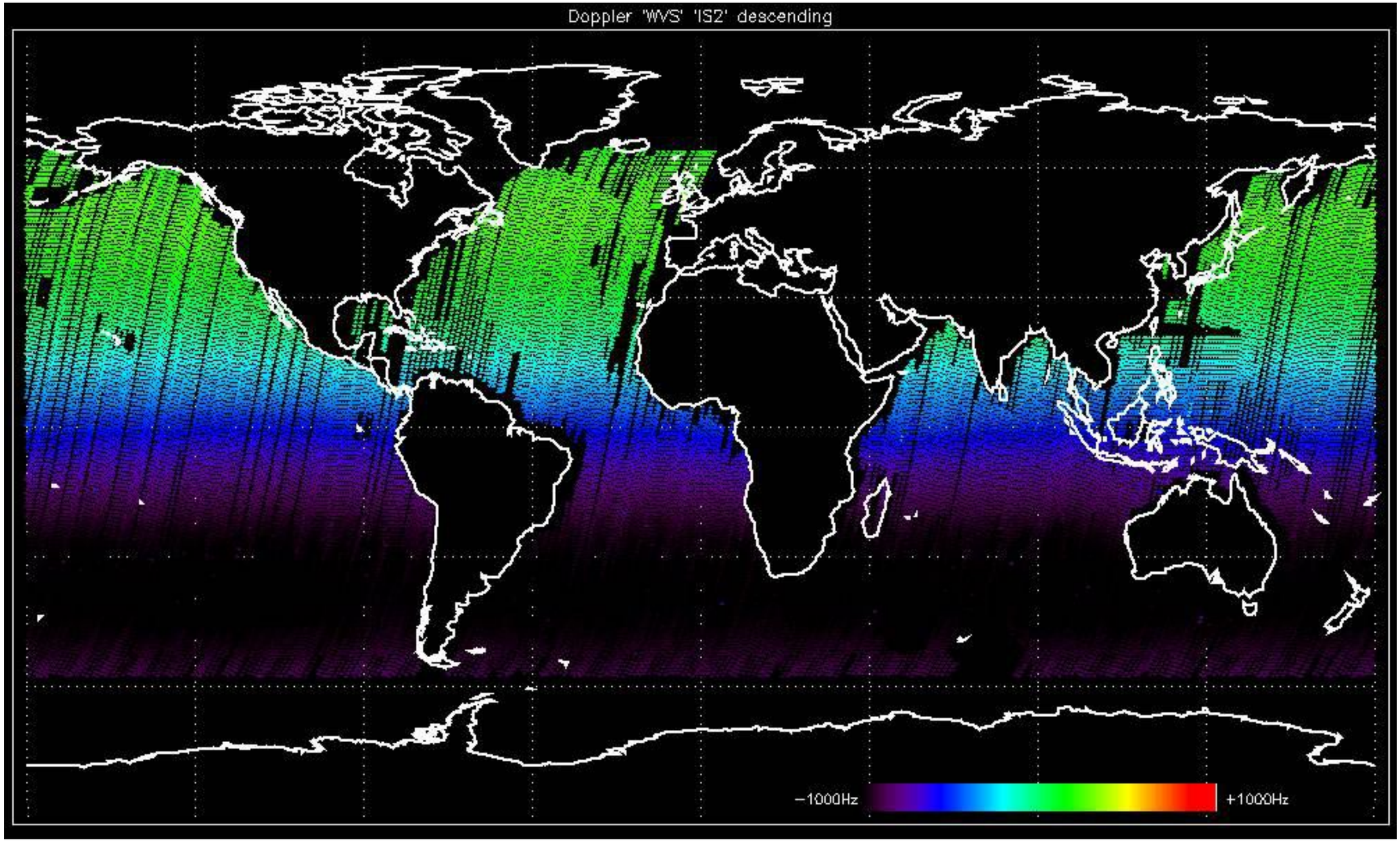
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

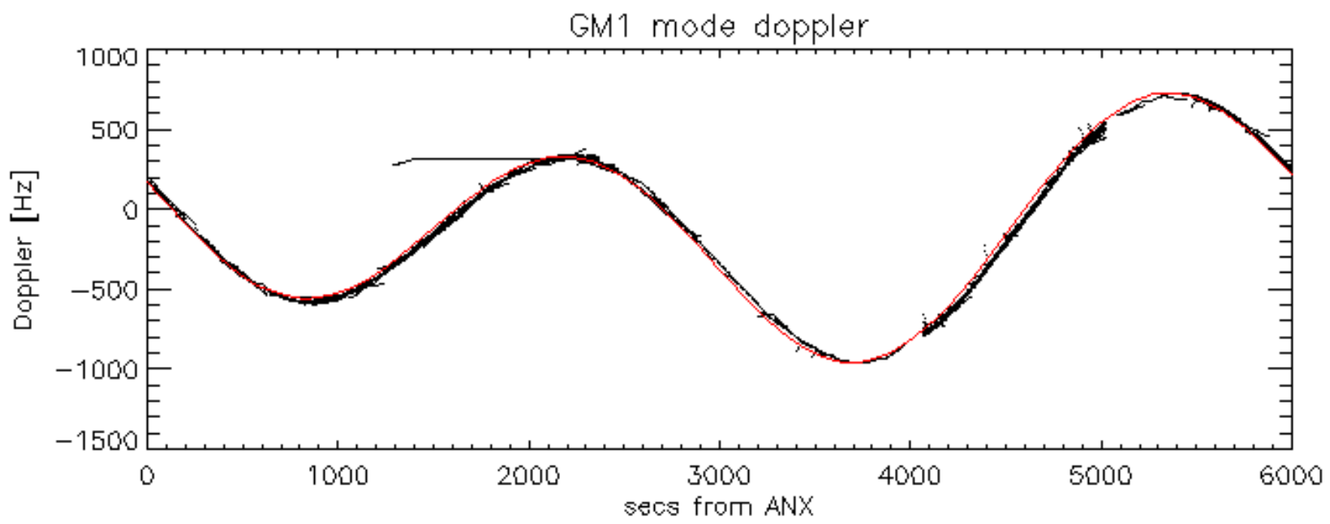
Preliminary report.The data is not yet controled

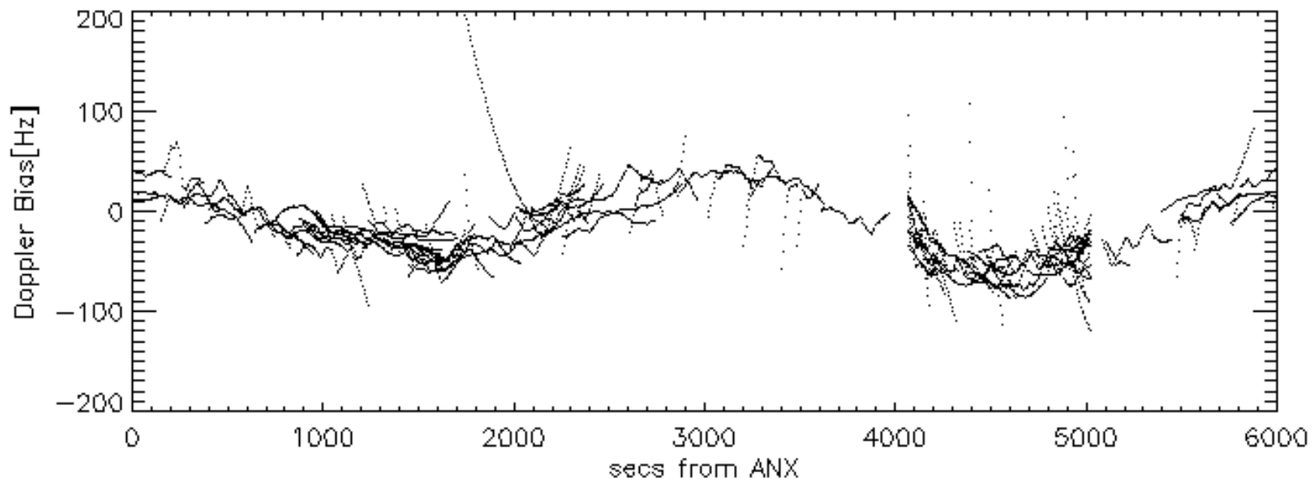

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

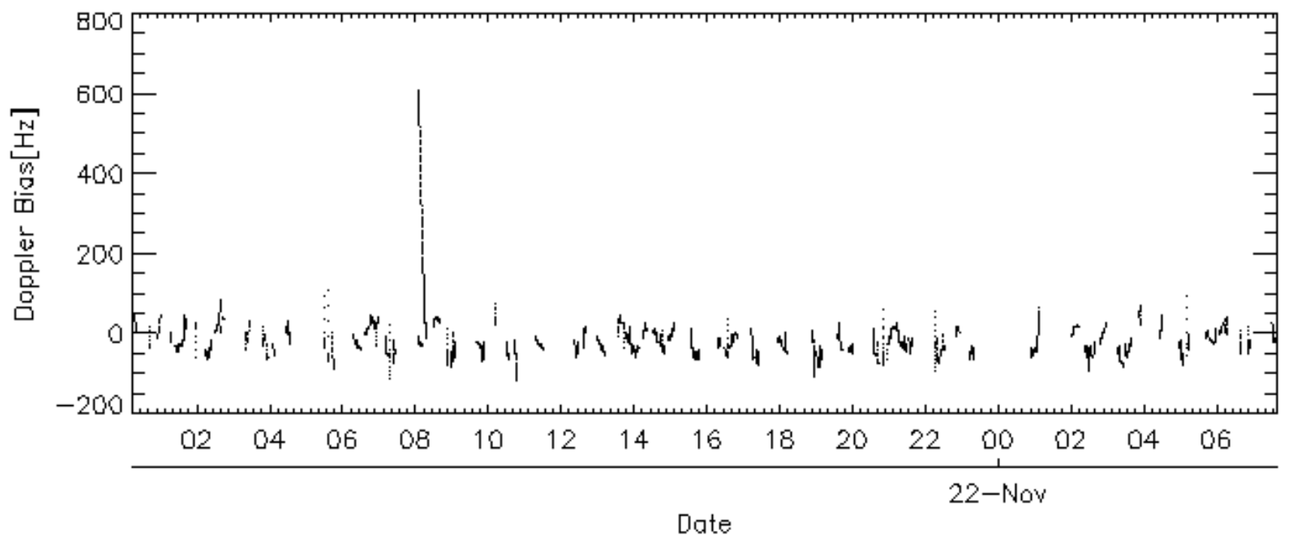

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

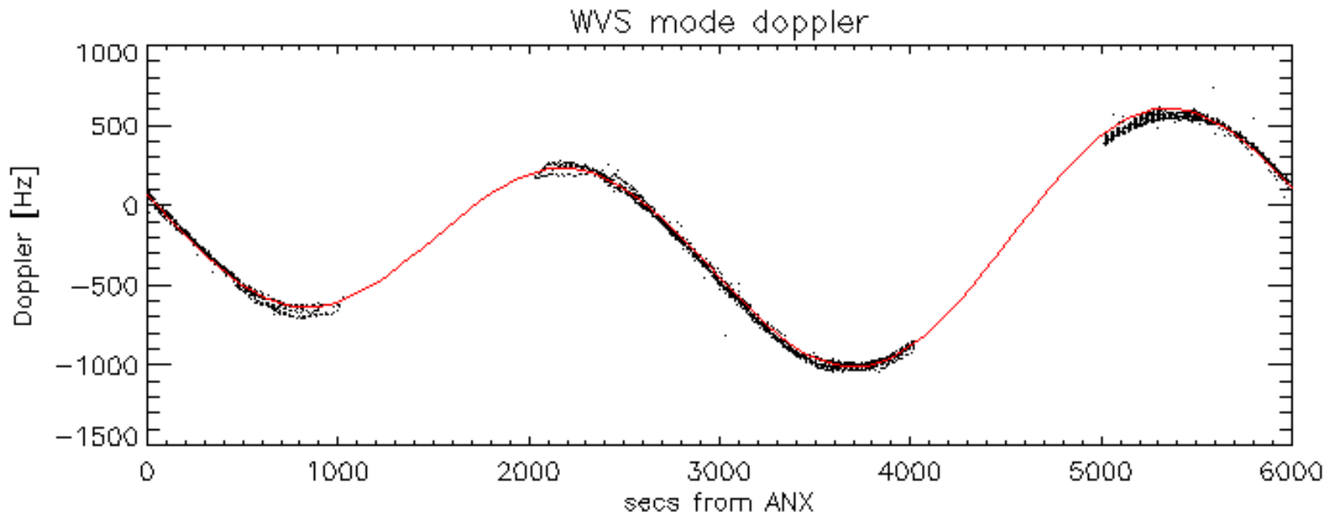

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

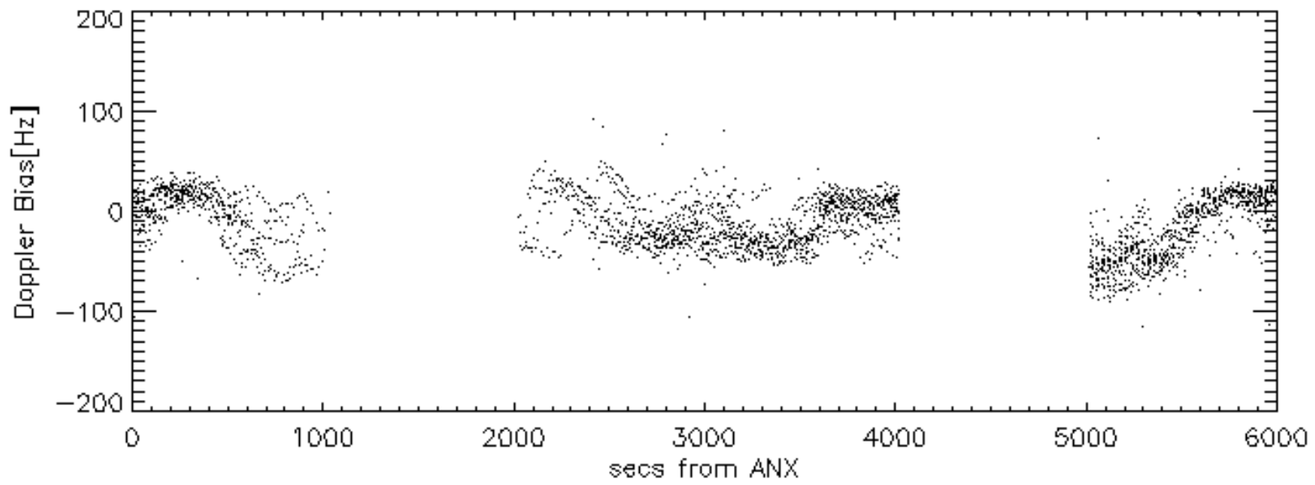

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

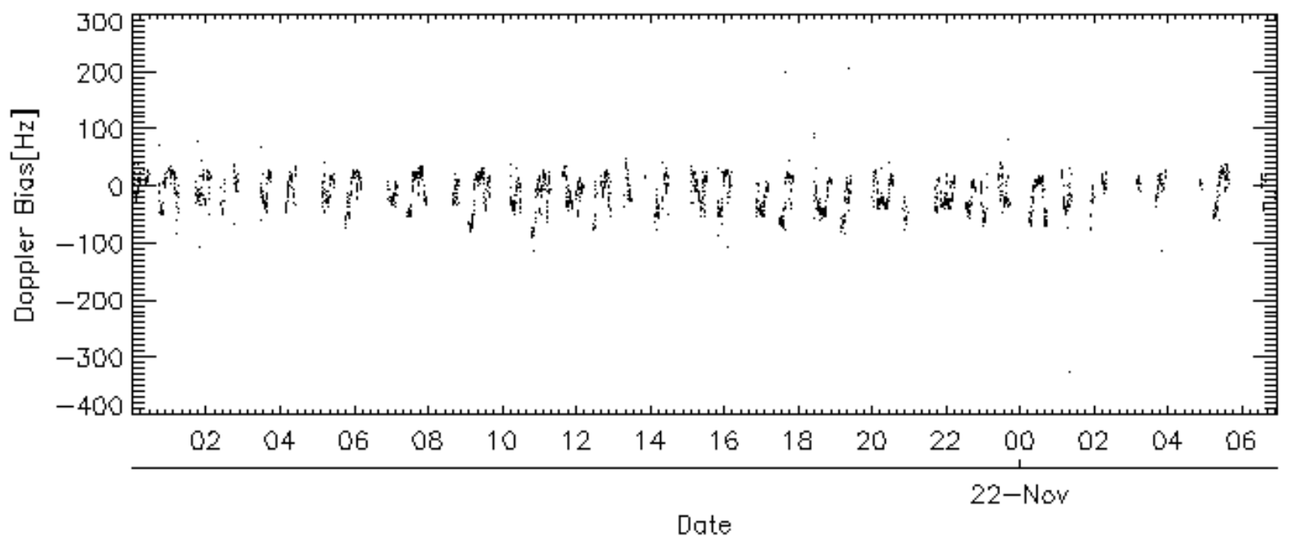

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

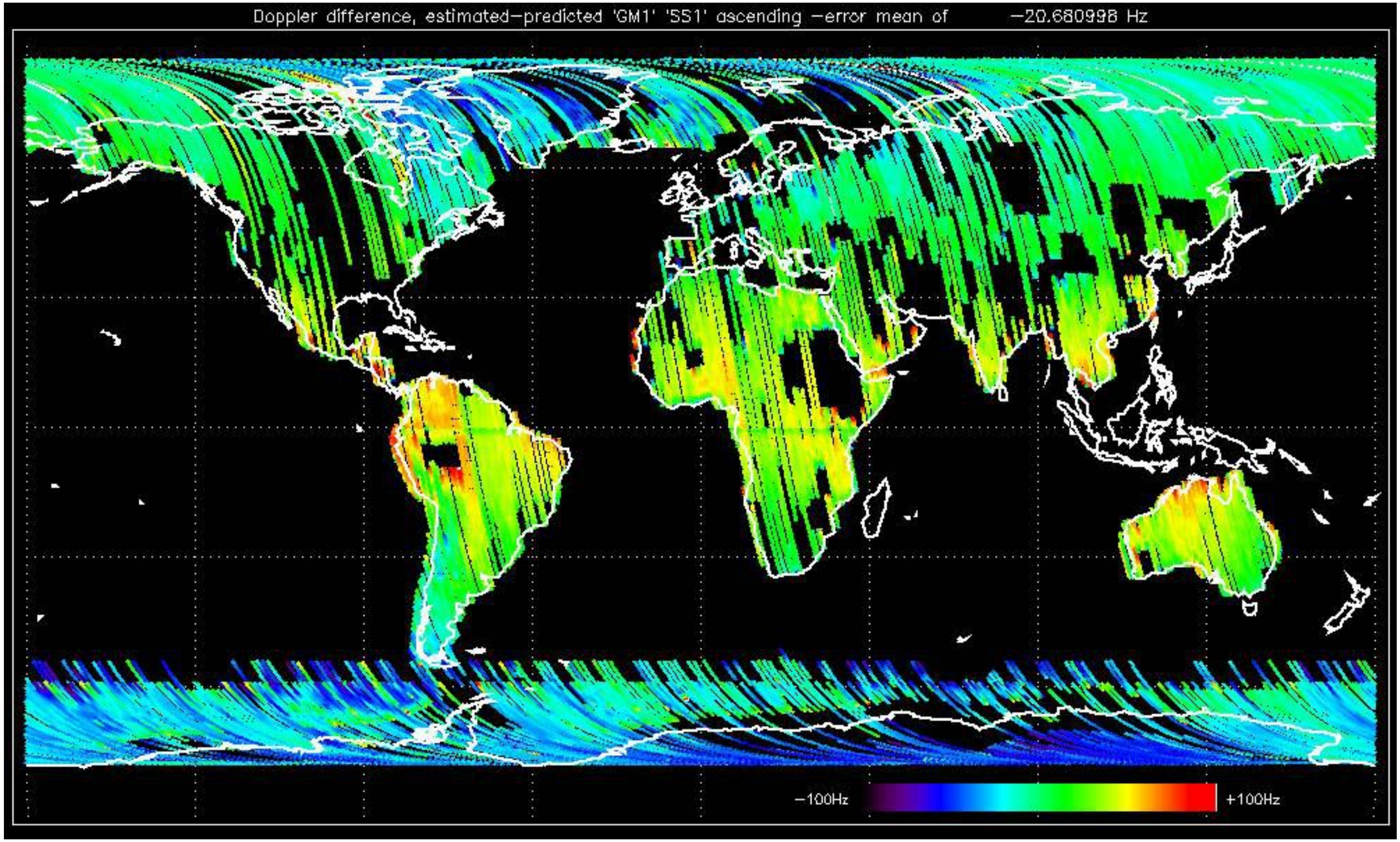

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

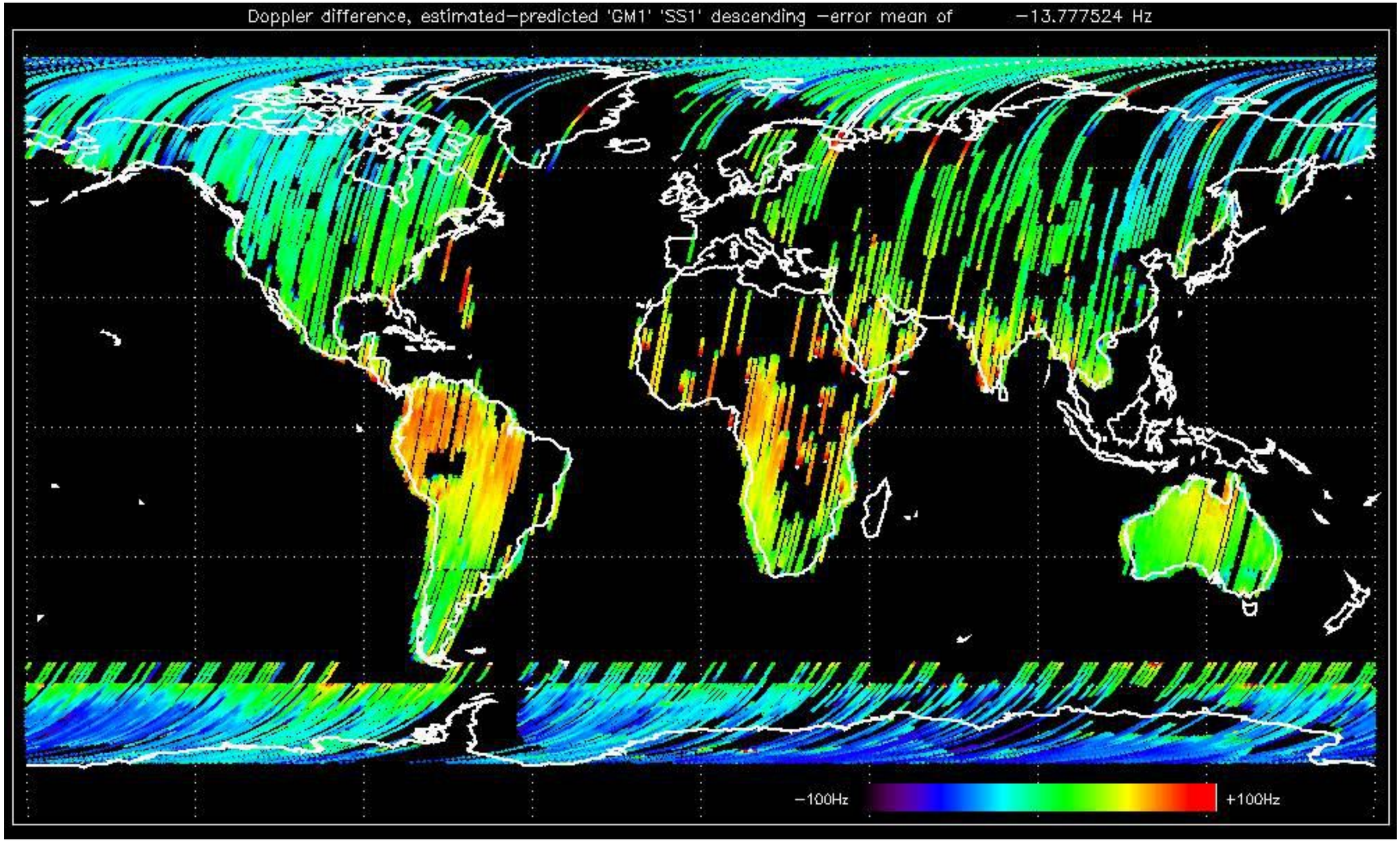

Doppler Bias[Hz]
800
600
400
200
0
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
22−Nov
Date

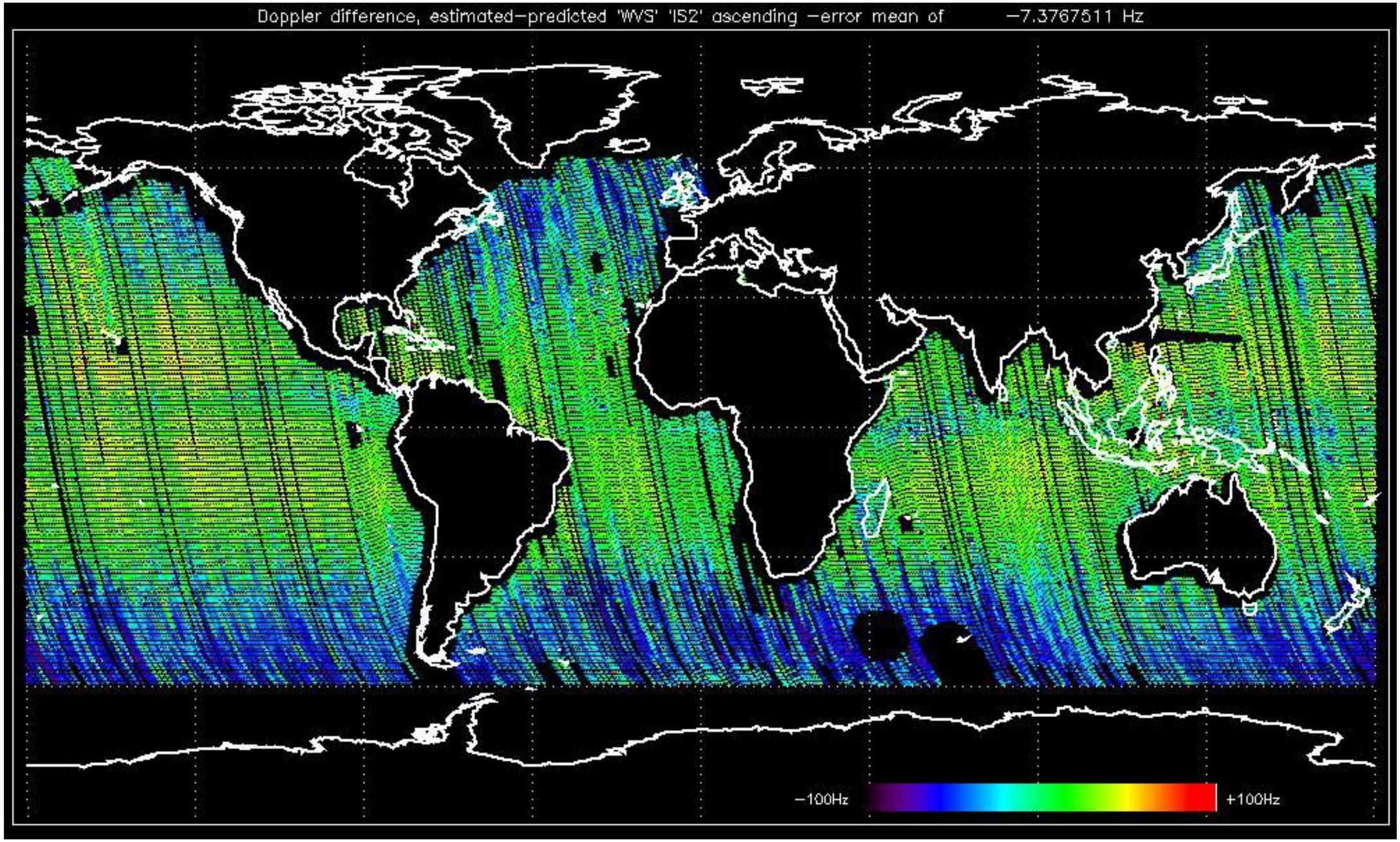

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

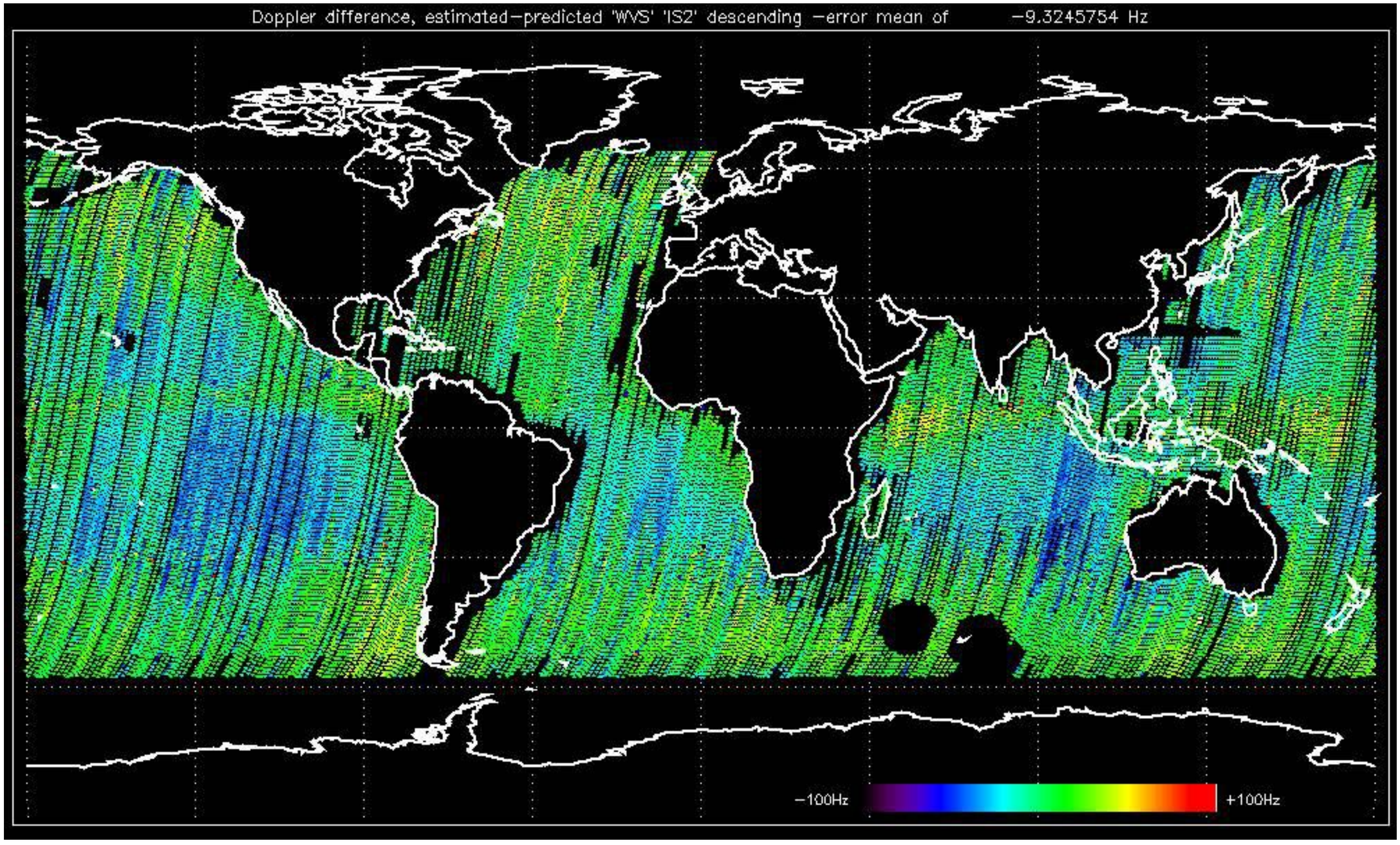

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


Doppler Bias[Hz]
300
200
100
0
−100
−200
−300
−400
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
22−Nov
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −20.680998 Hz
−100Hz
+100Hz

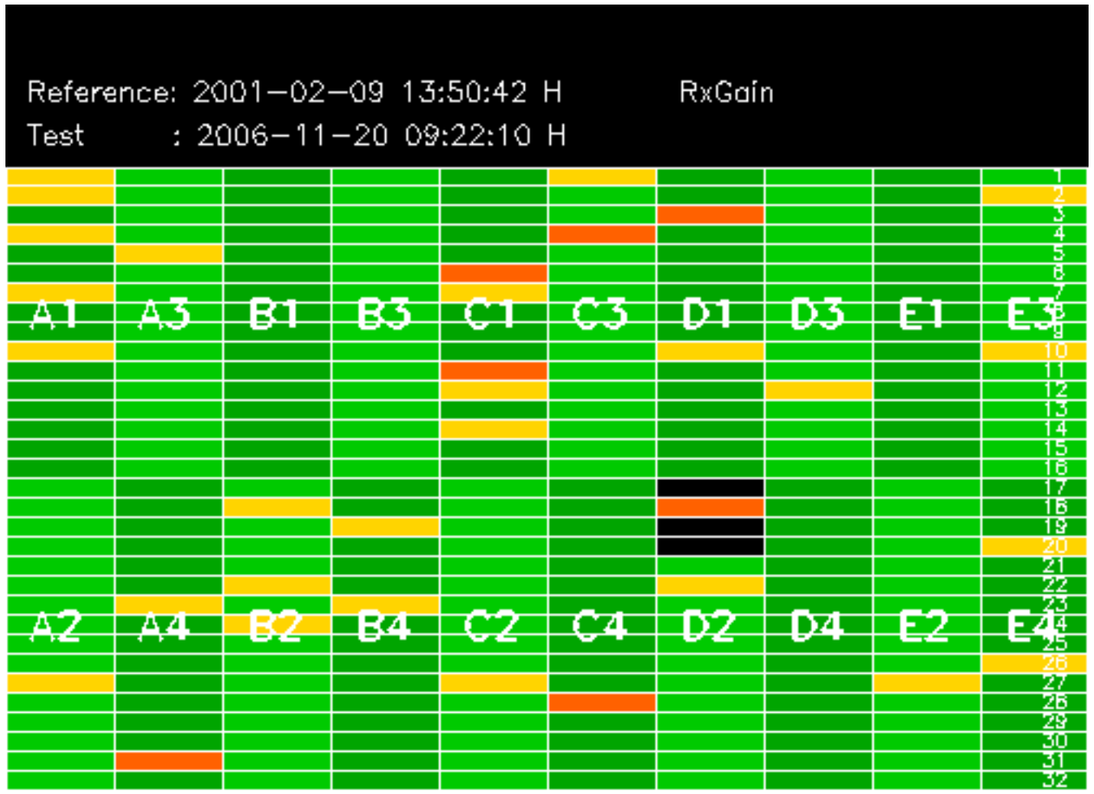

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −13.777524 Hz
−100Hz
+100Hz

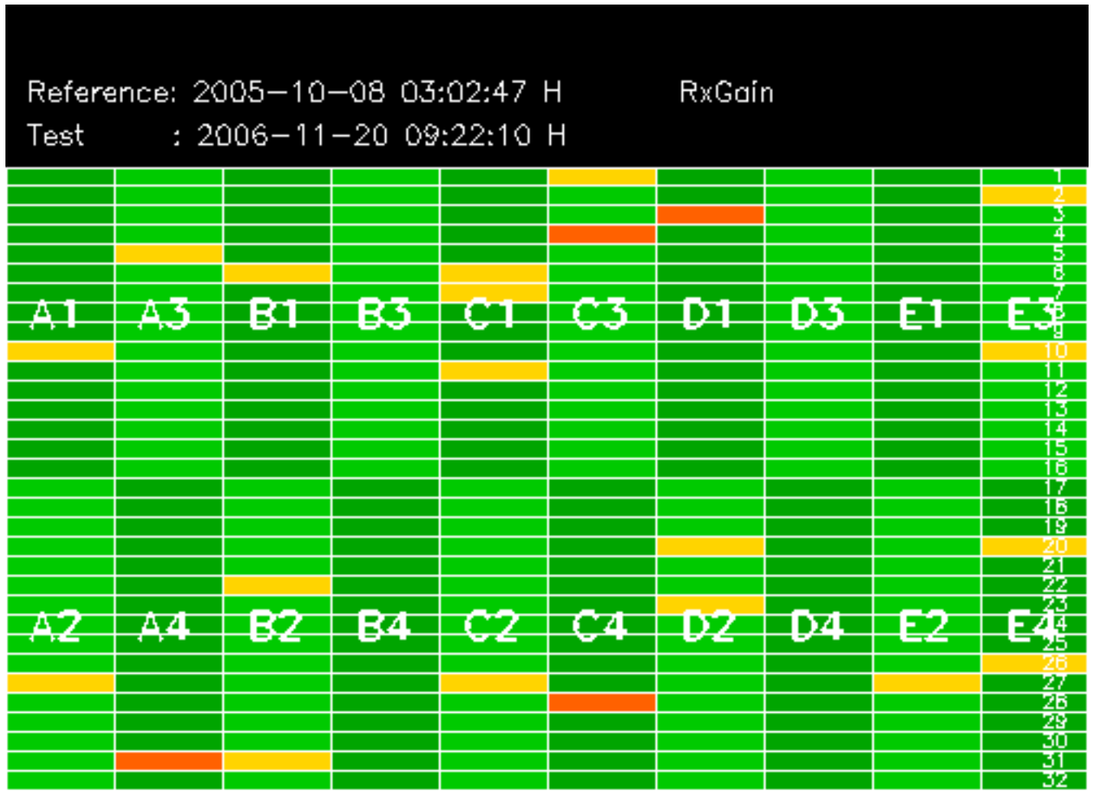

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −7.3767511 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −9.3245754 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-11-20 09:22:10 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 : 2006-11-20 09:22:10 H
RxGain
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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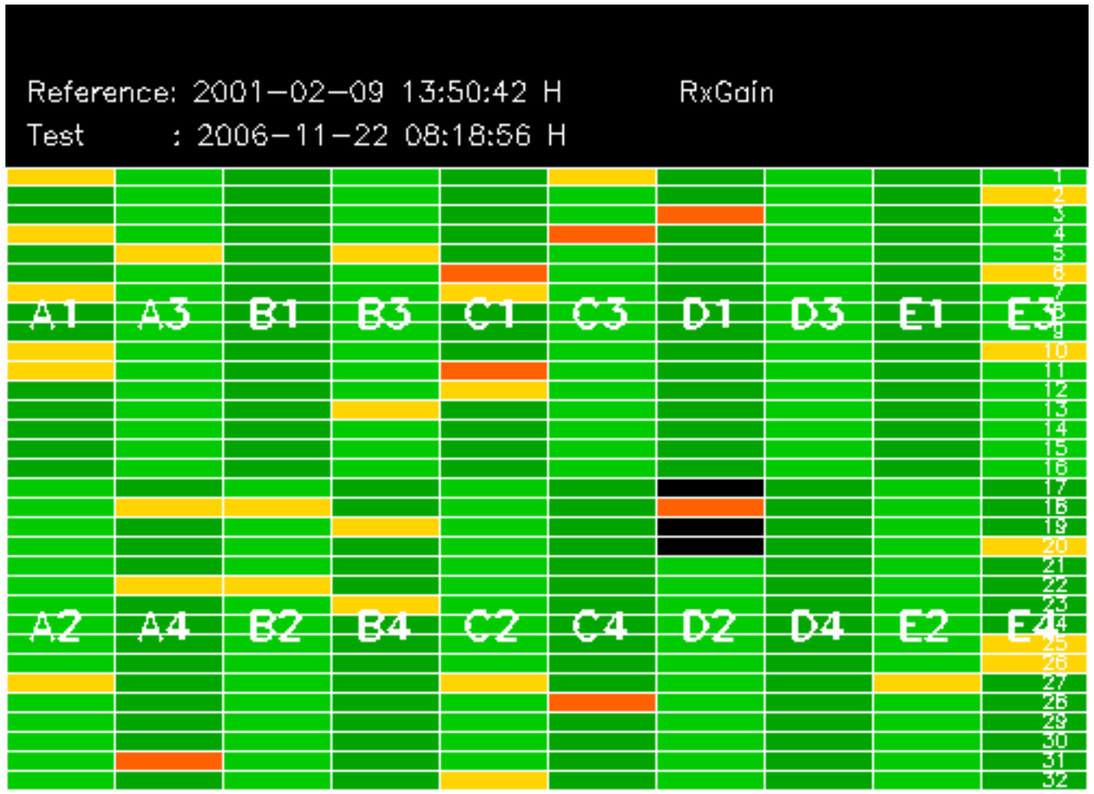
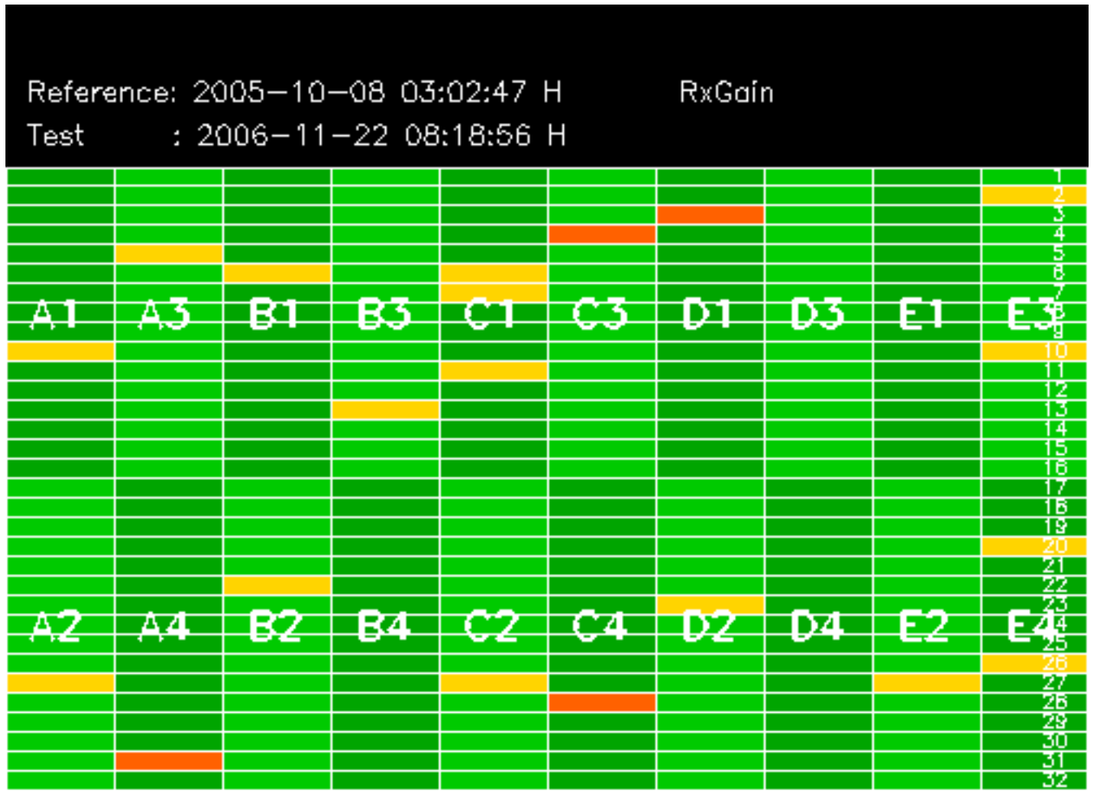

Reference: 2001-02-09 13:50:42 H
Test : 2006-11-22 08:18:56 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2006-11-22 08:18:56 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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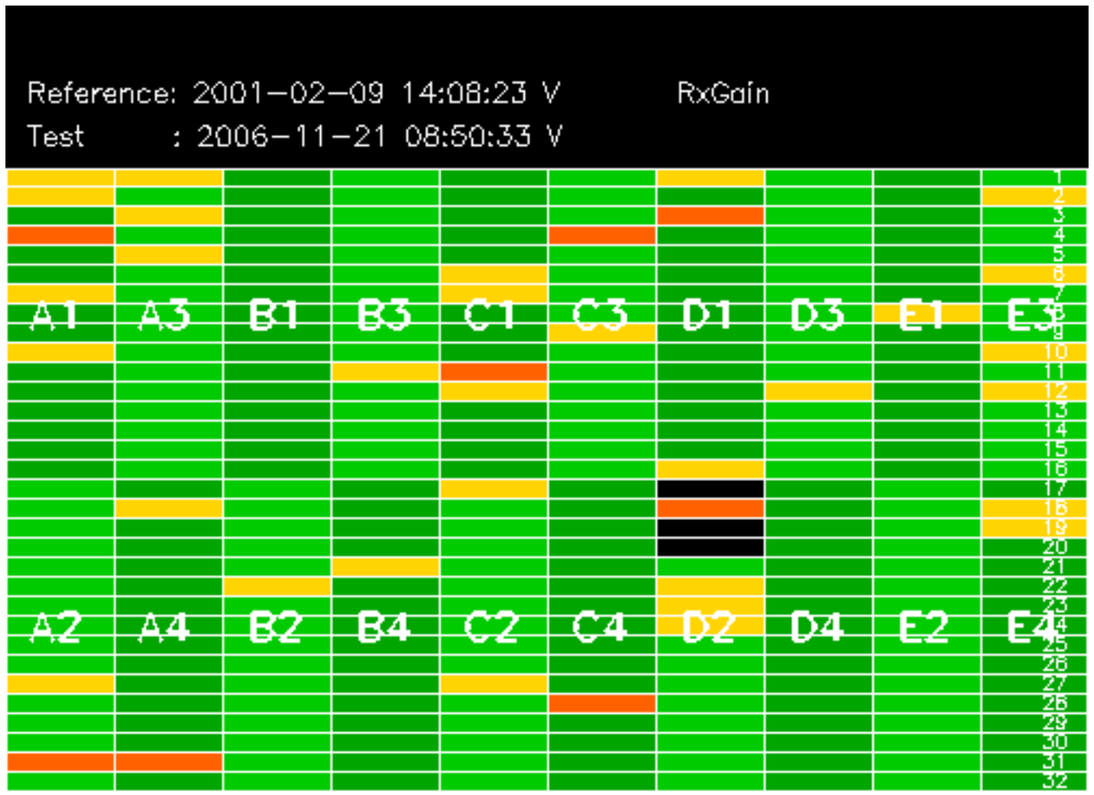
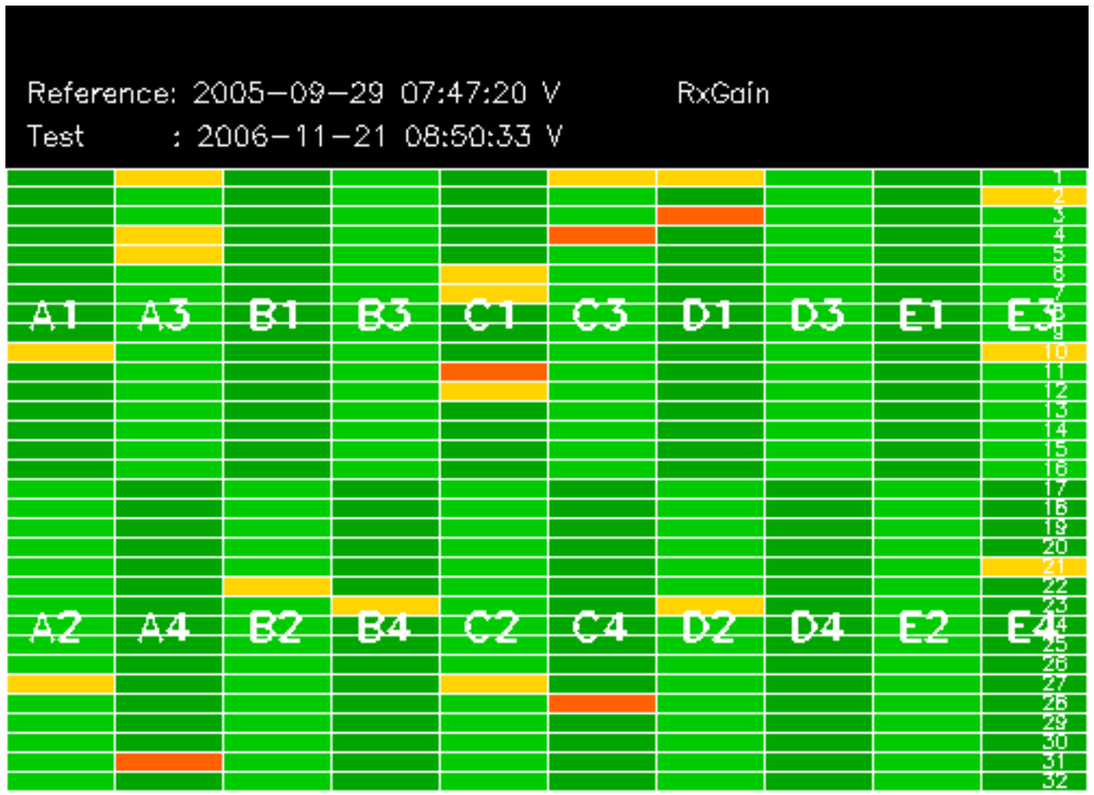

Reference: 2001-02-09 14:08:23 V
Test : 2006-11-21 08:50:33 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-11-21 08:50:33 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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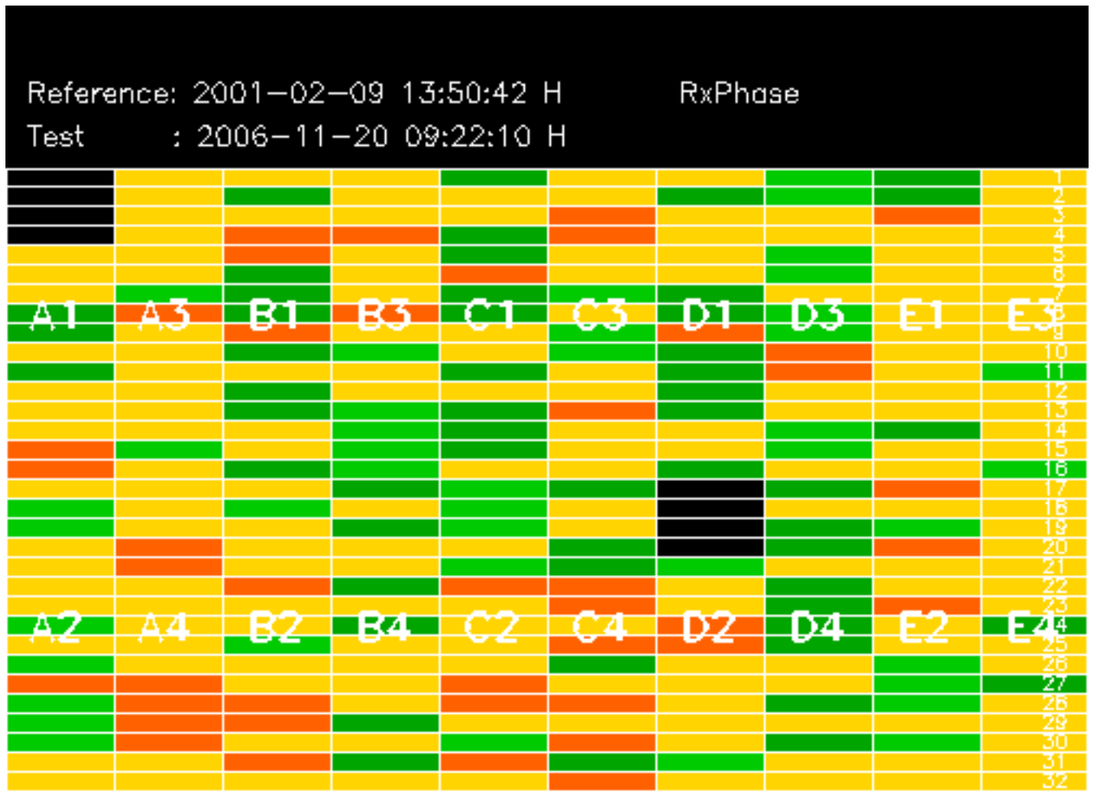
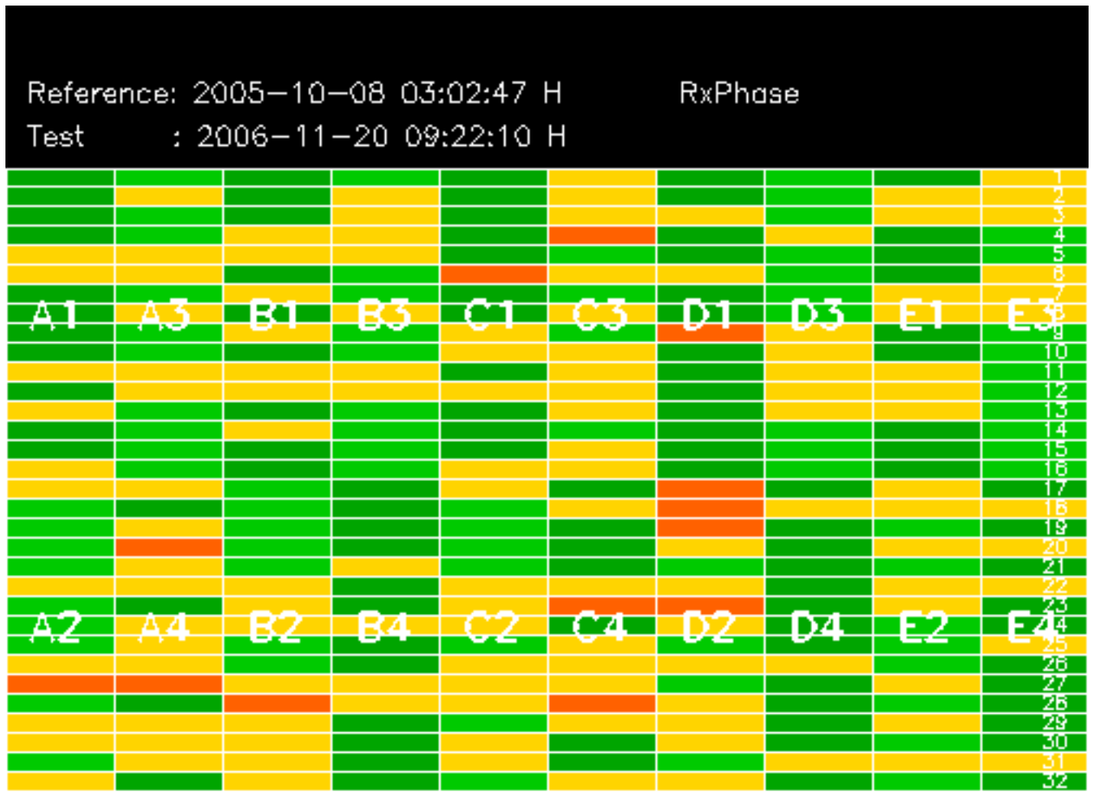

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-11-20 09:22:10 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-11-20 09:22:10 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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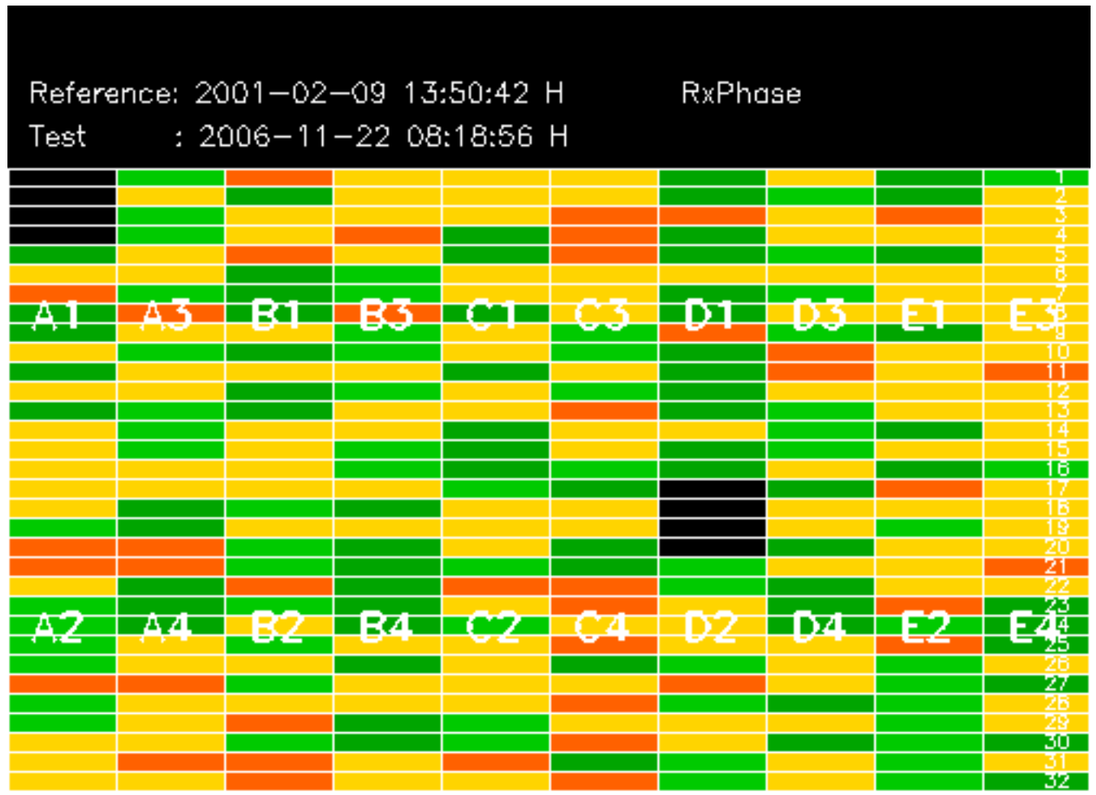
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-11-22 08:18:56 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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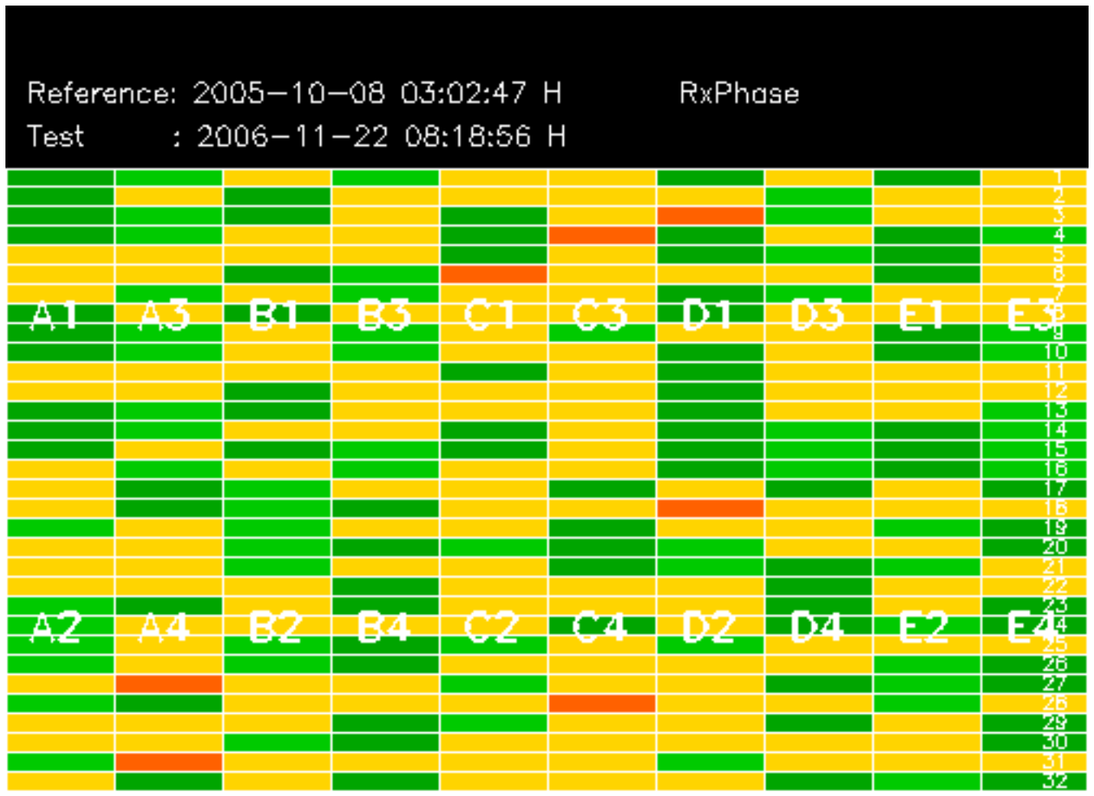
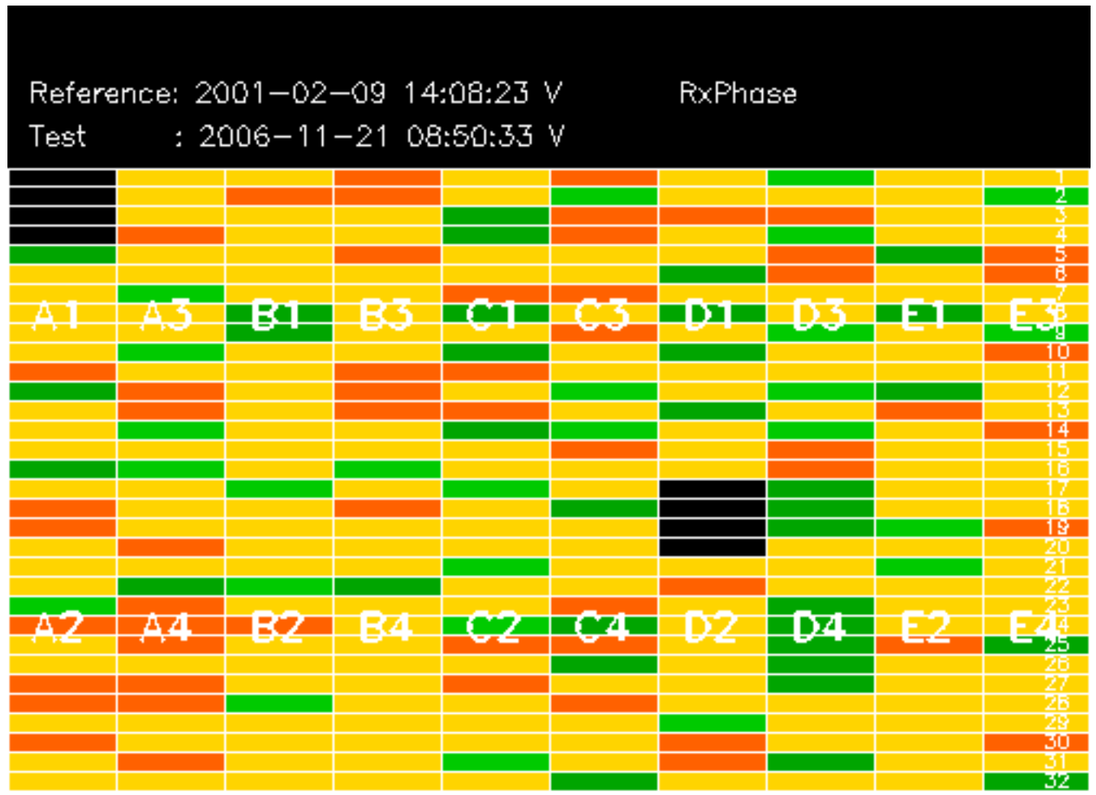
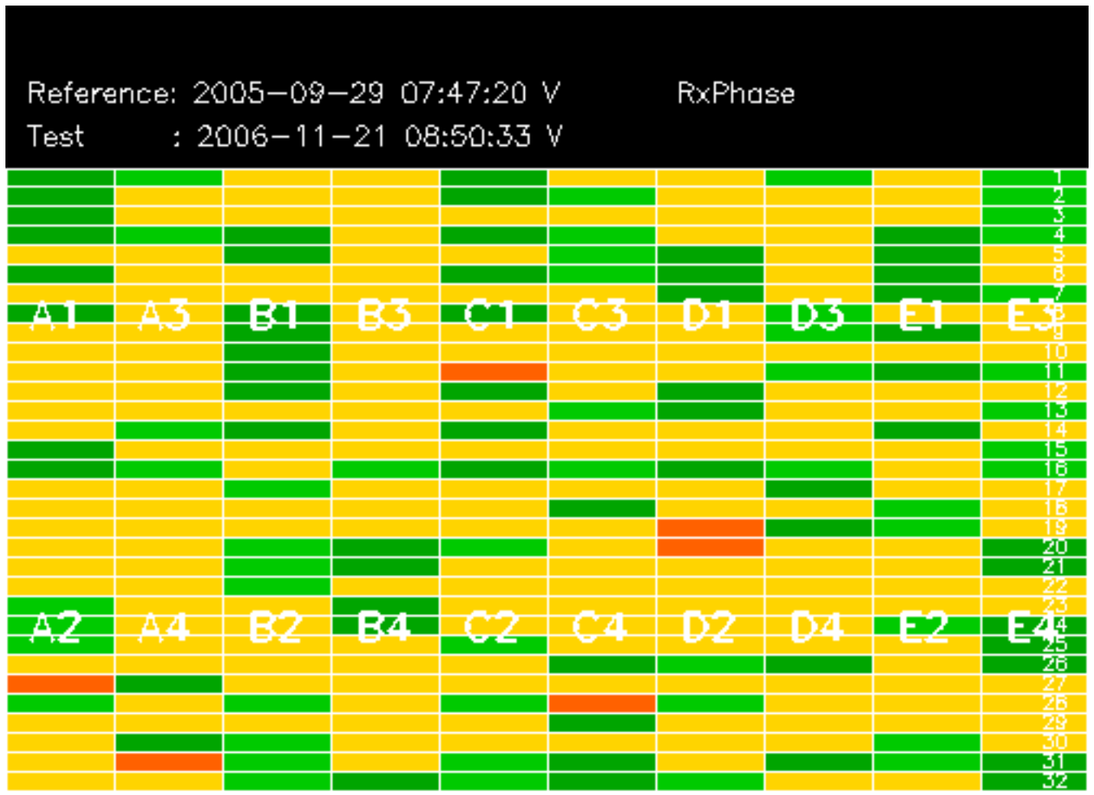

Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-11-22 08:18:56 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2006-11-21 08:50:33 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 : 2006-11-21 08:50:33 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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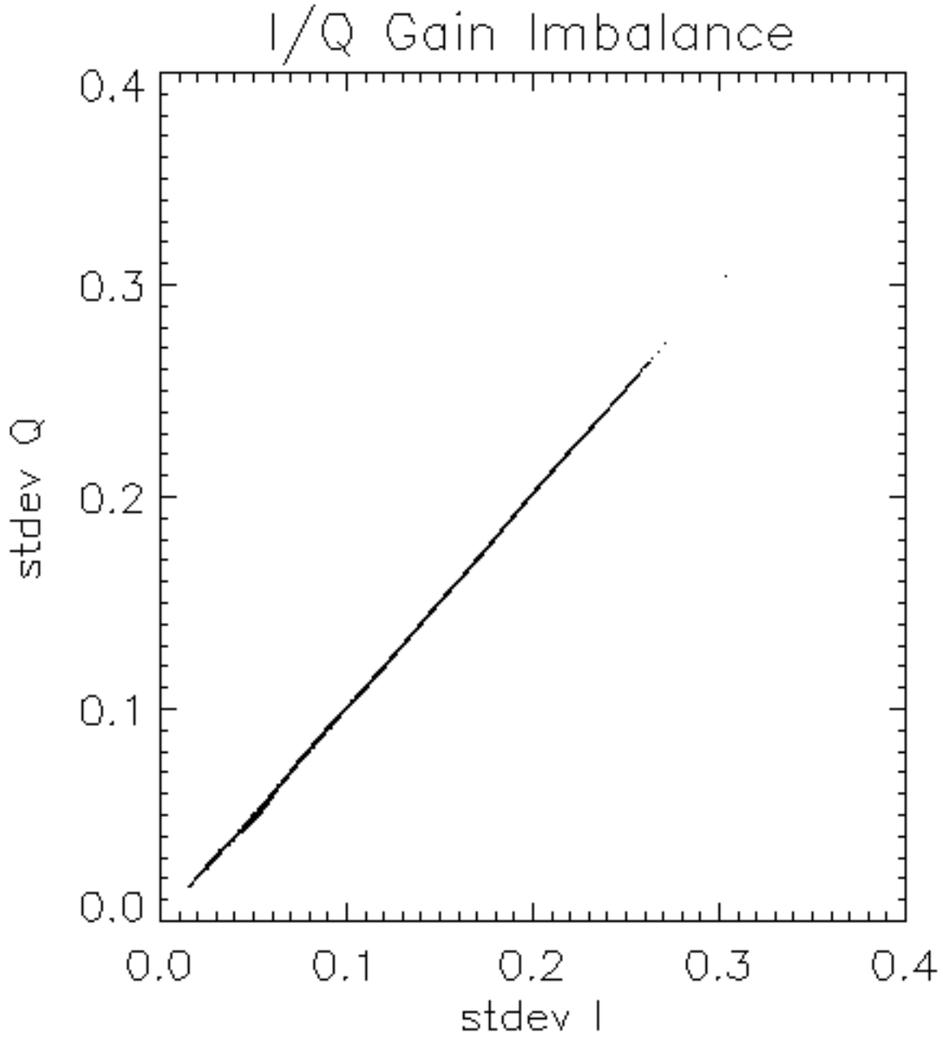
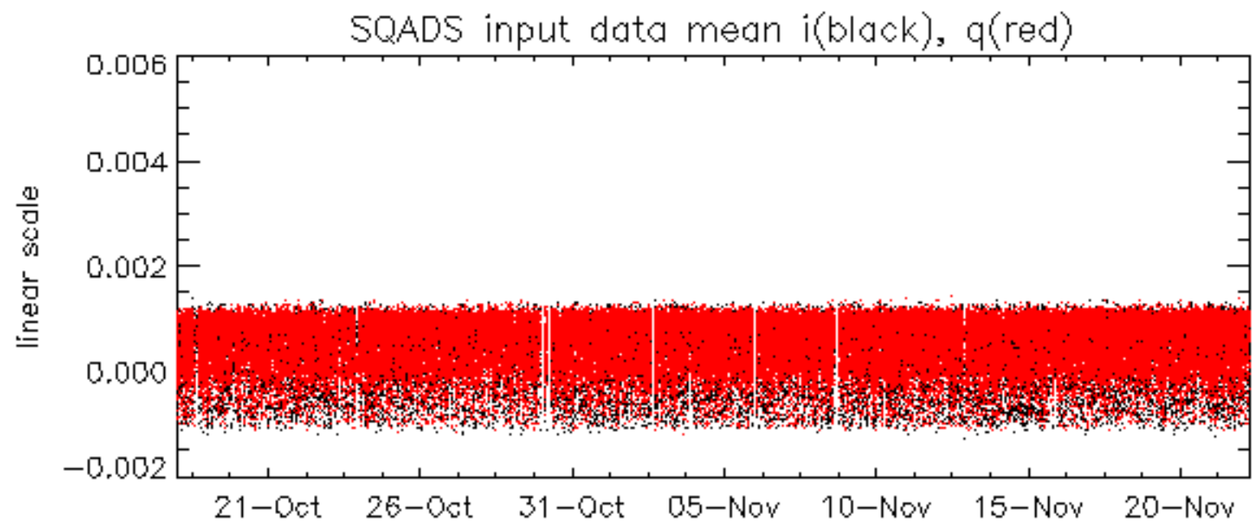
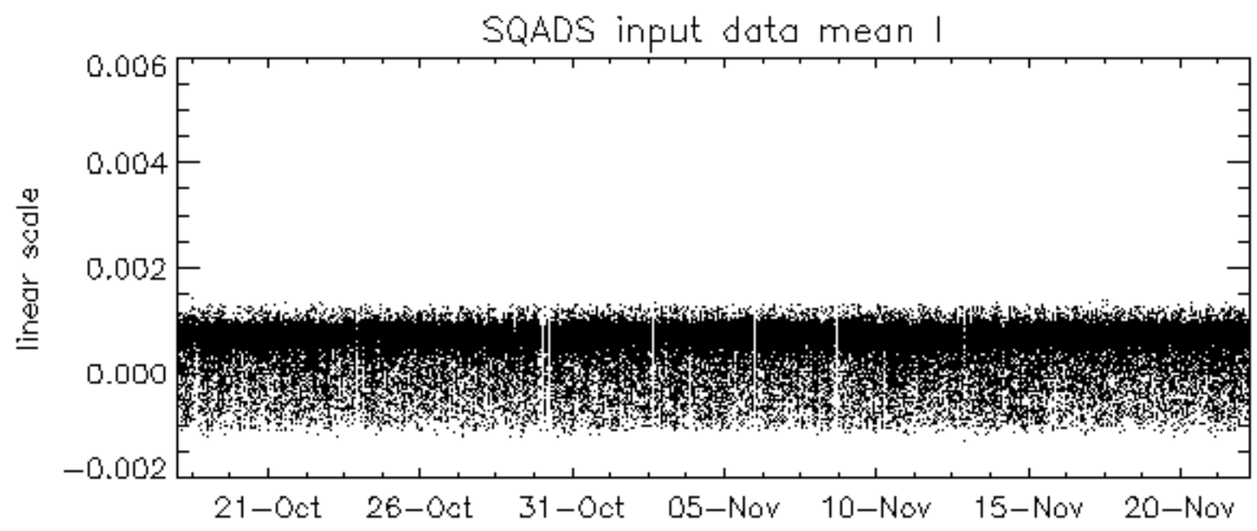
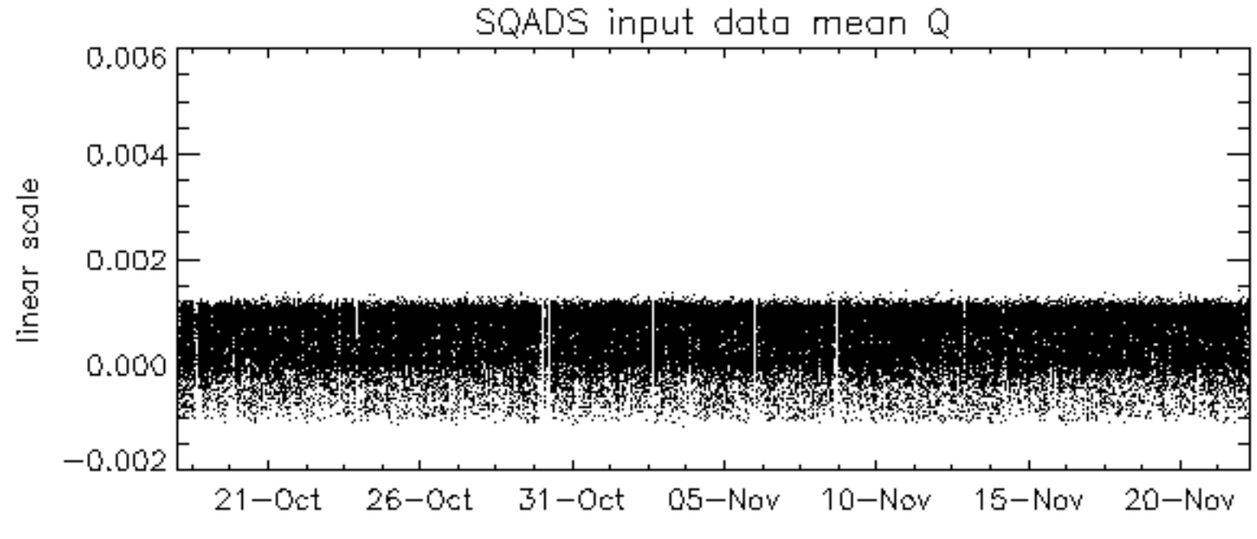
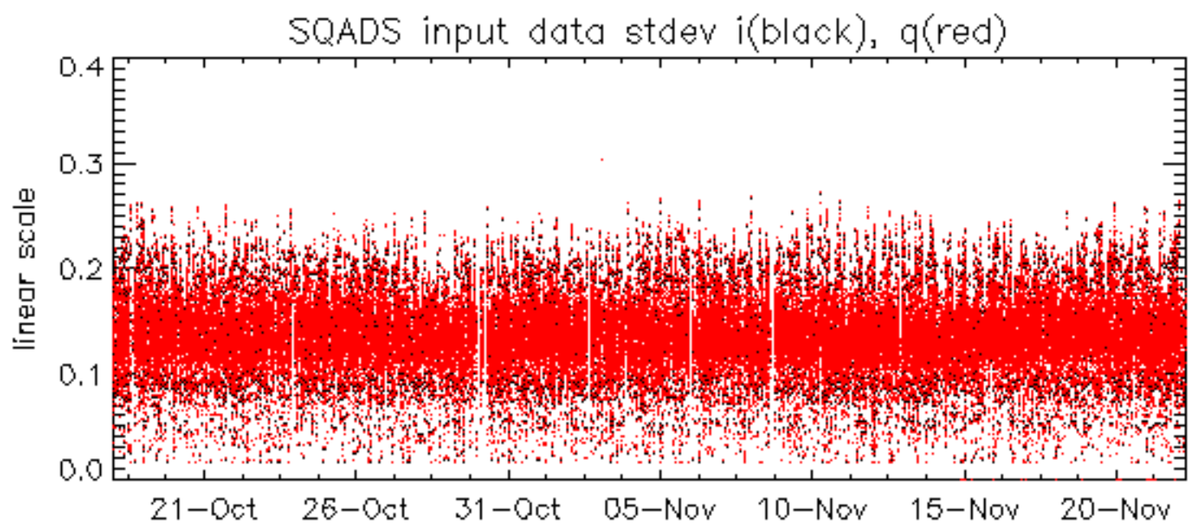
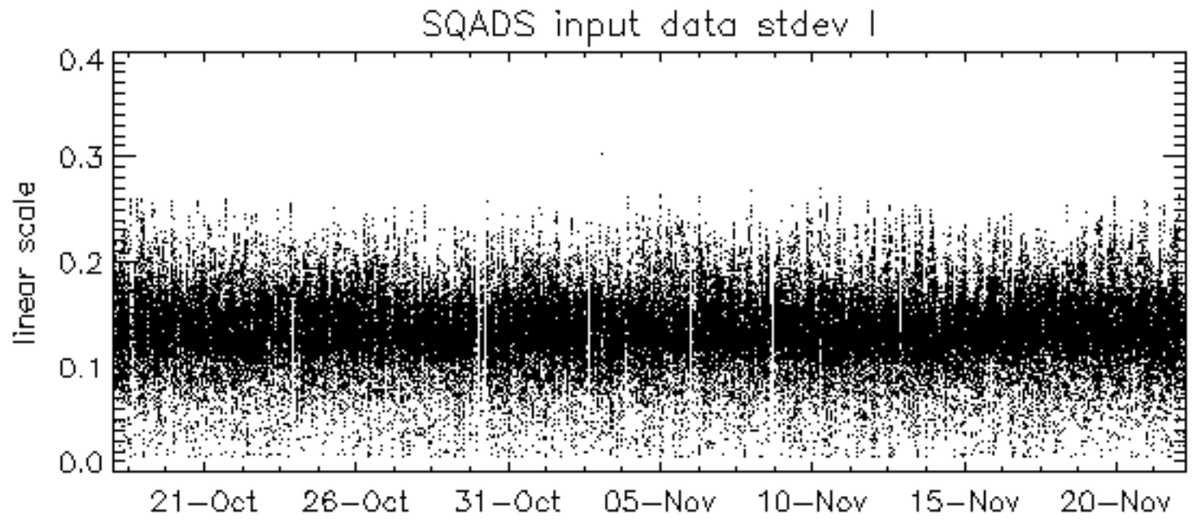

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

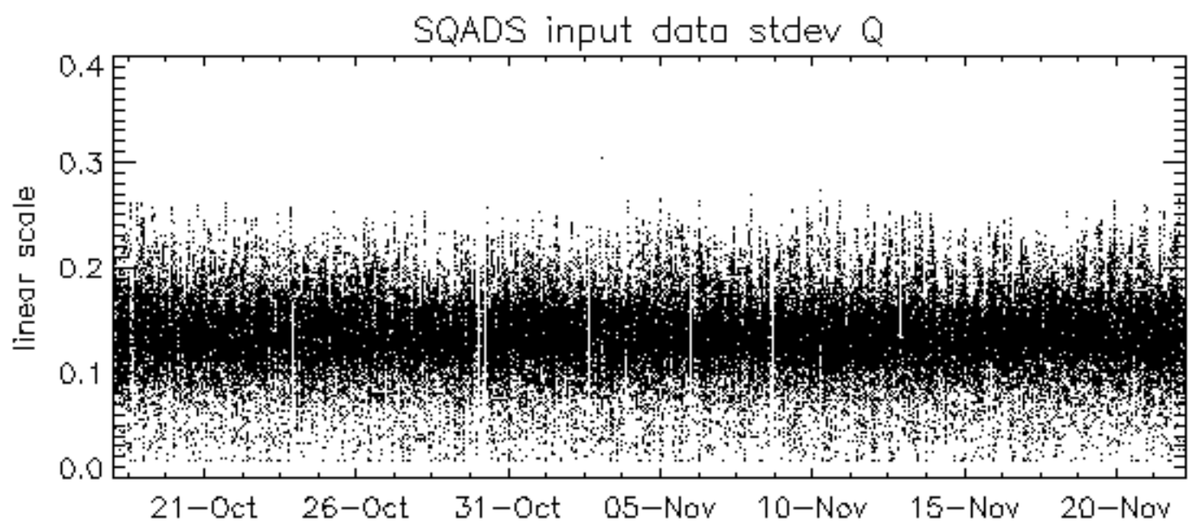

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov

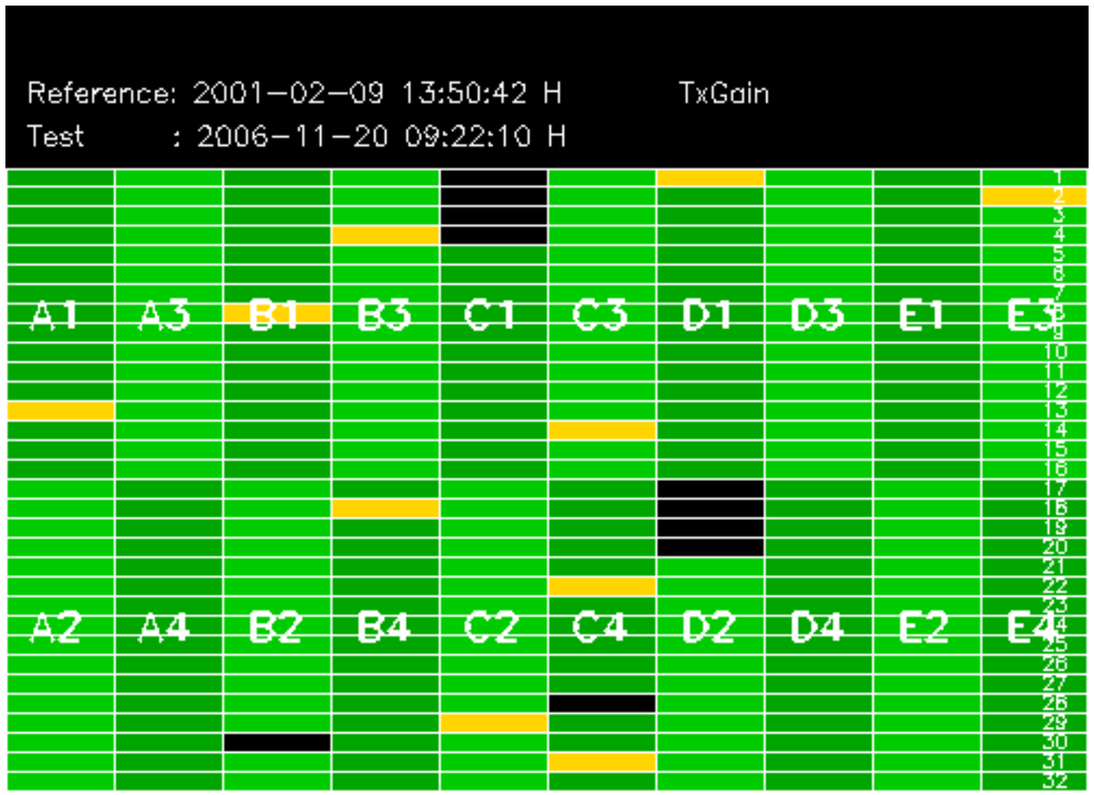

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2006-11-20 09:22:10 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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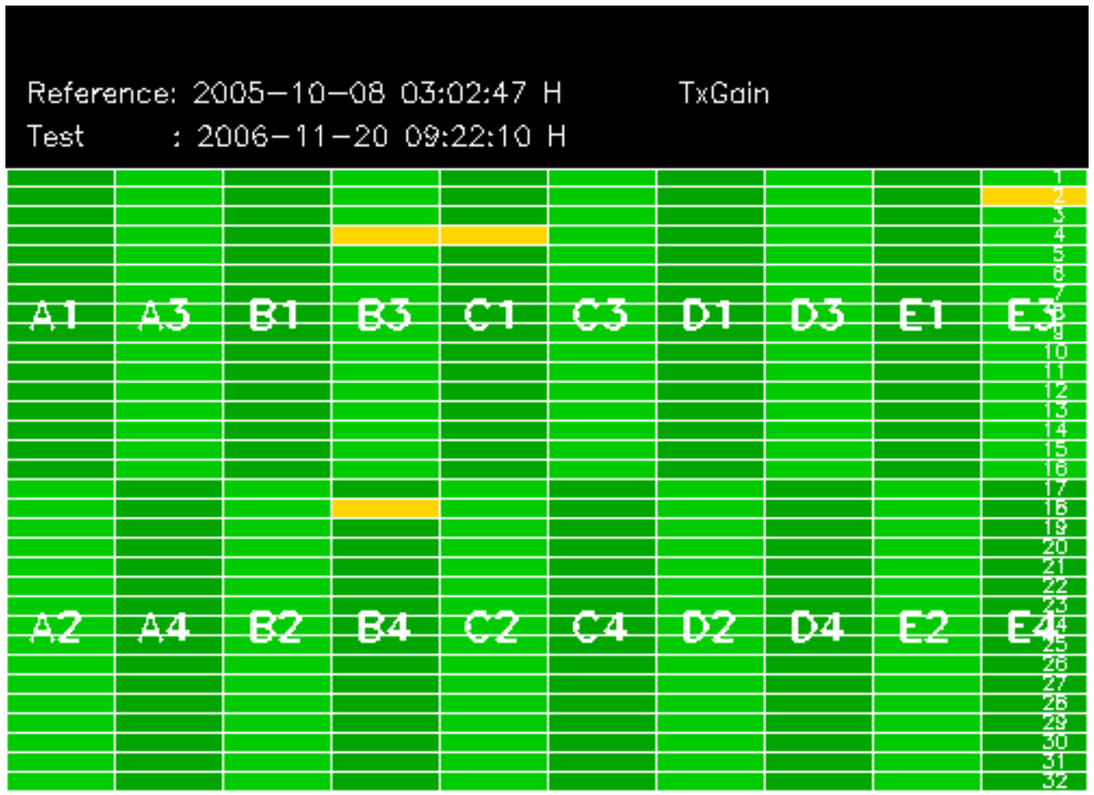
Reference: 2005-10-08 03:02:47 H
Test : 2006-11-20 09:22:10 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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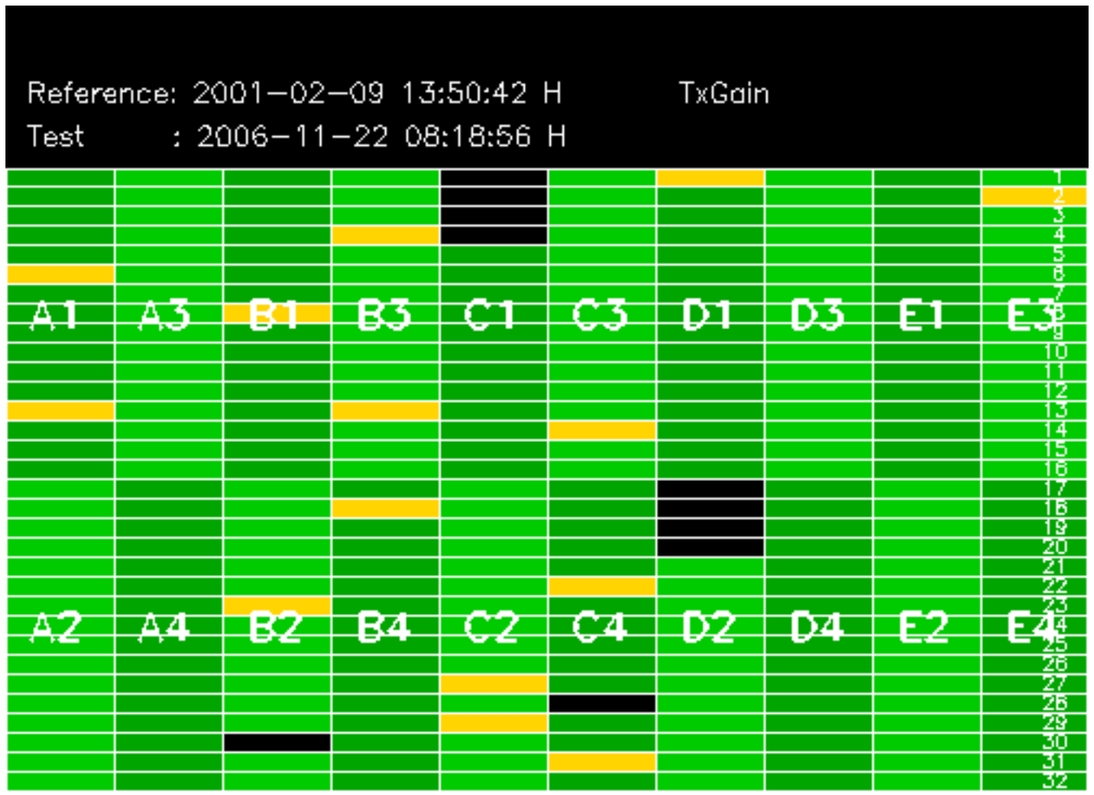
Reference: 2001-02-09 13:50:42 H
Test : 2006-11-22 08:18:56 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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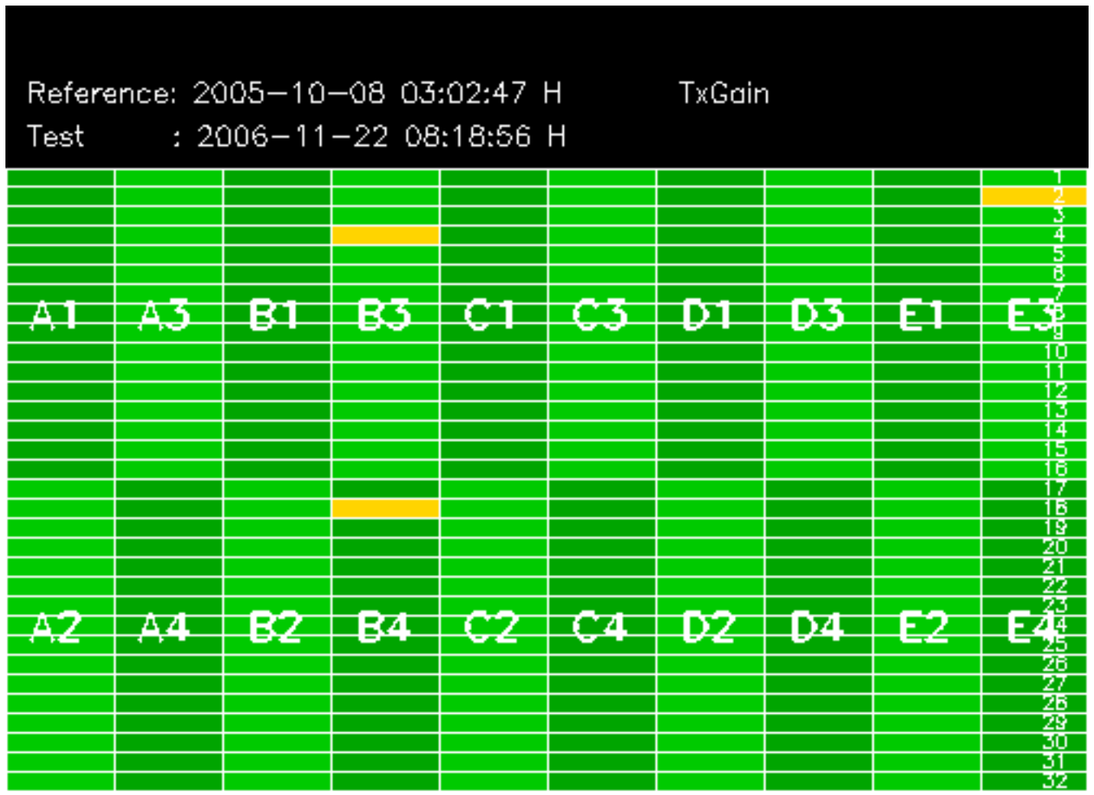
Reference: 2005-10-08 03:02:47 H
Test : 2006-11-22 08:18:56 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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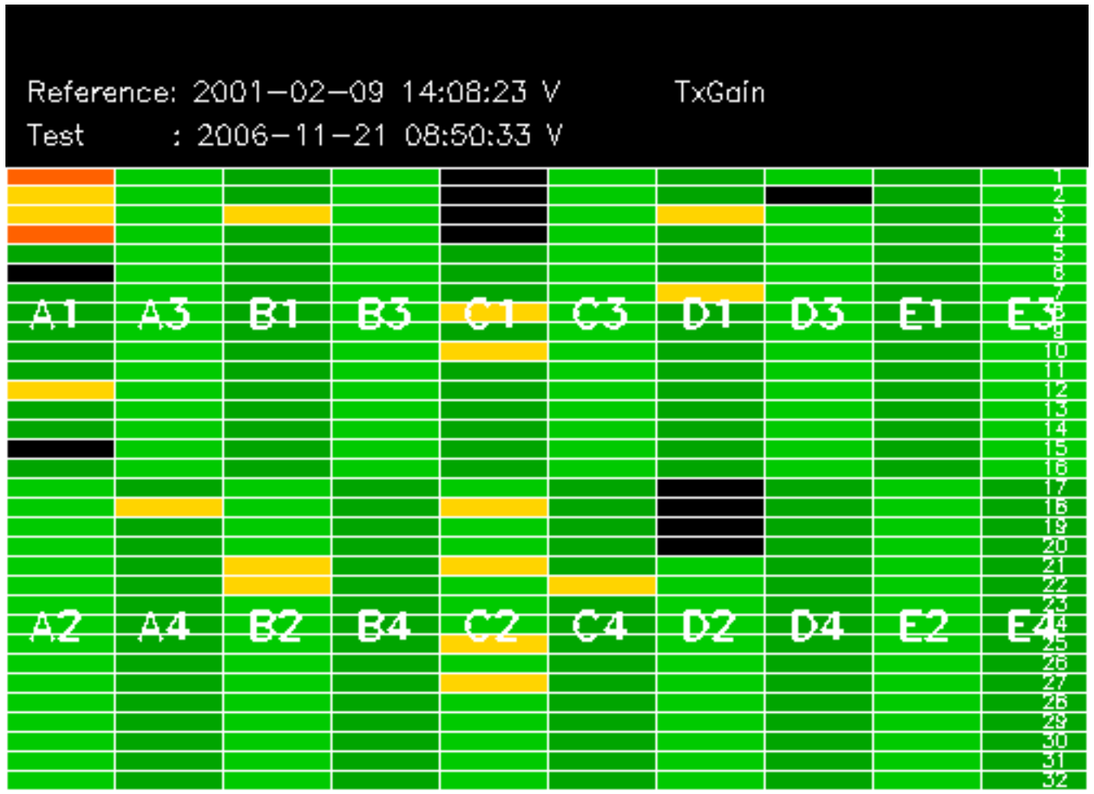
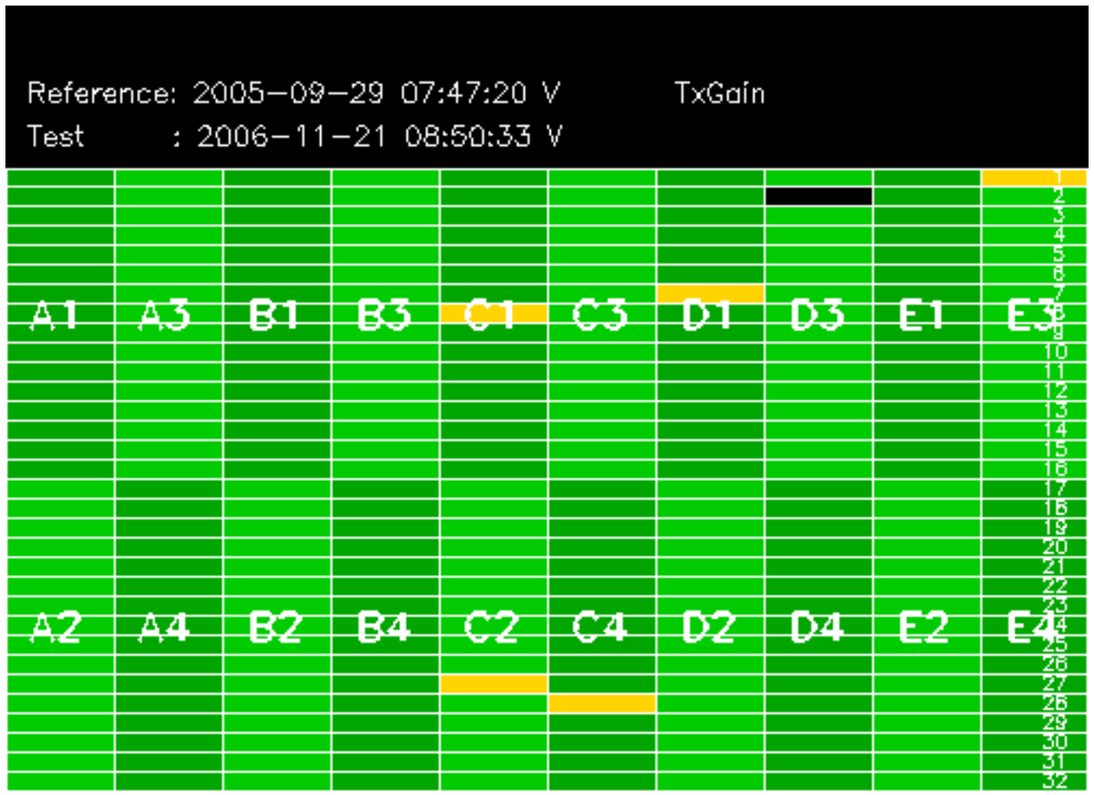

Reference: 2001-02-09 14:08:23 V
Test : 2006-11-21 08:50:33 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-11-21 08:50:33 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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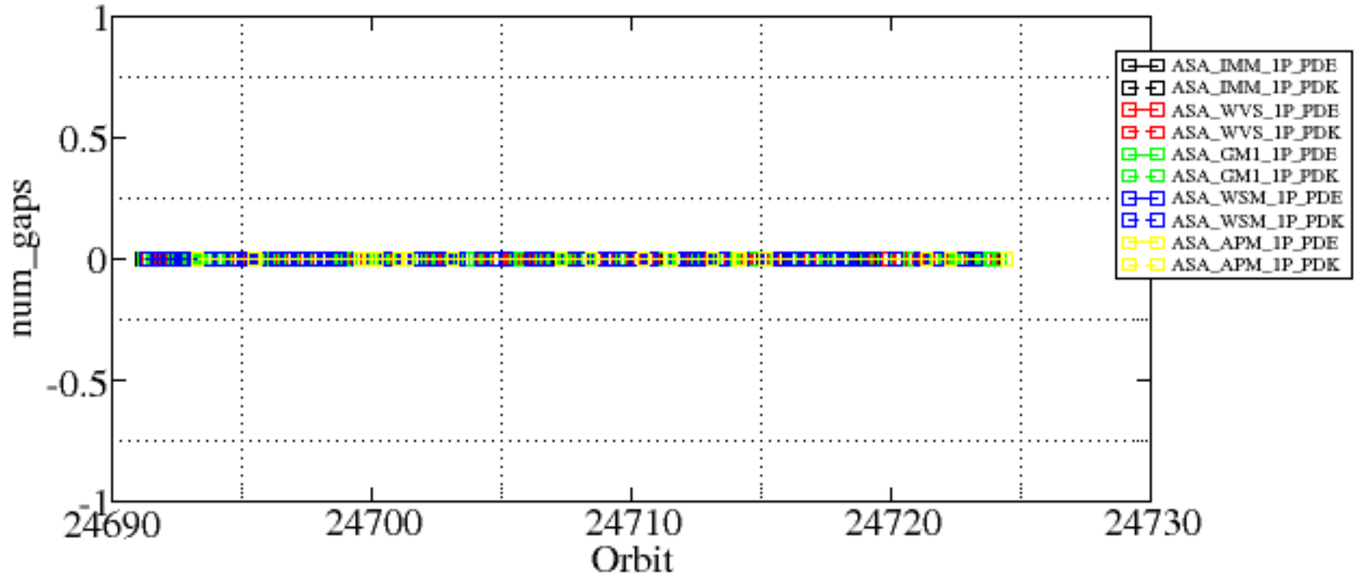
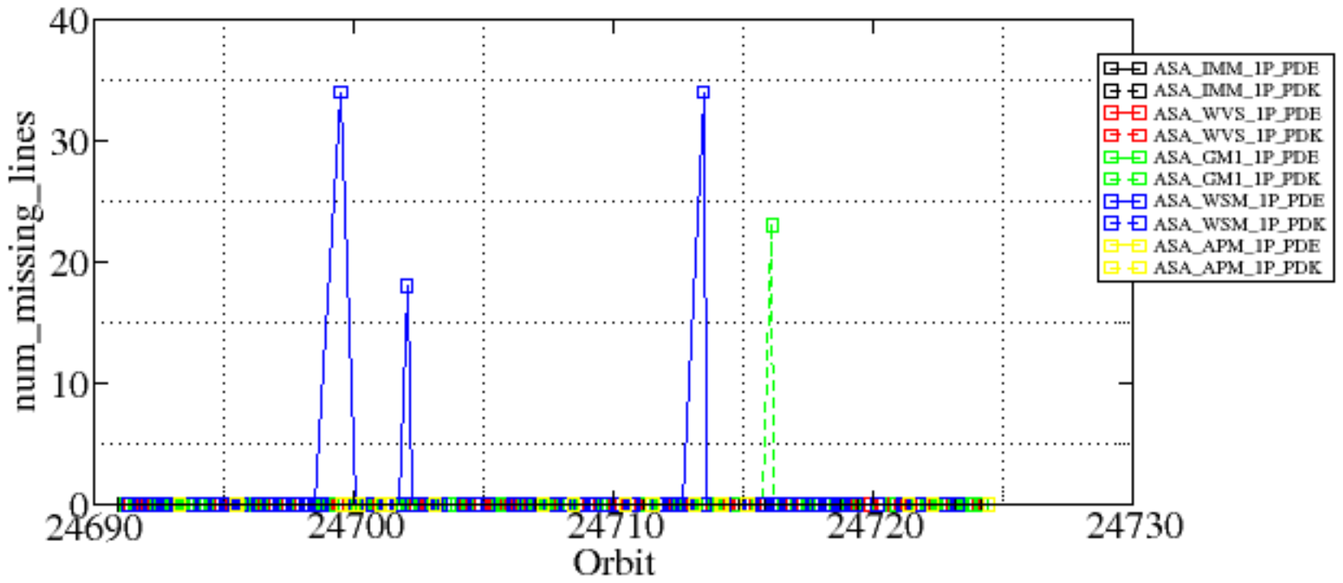
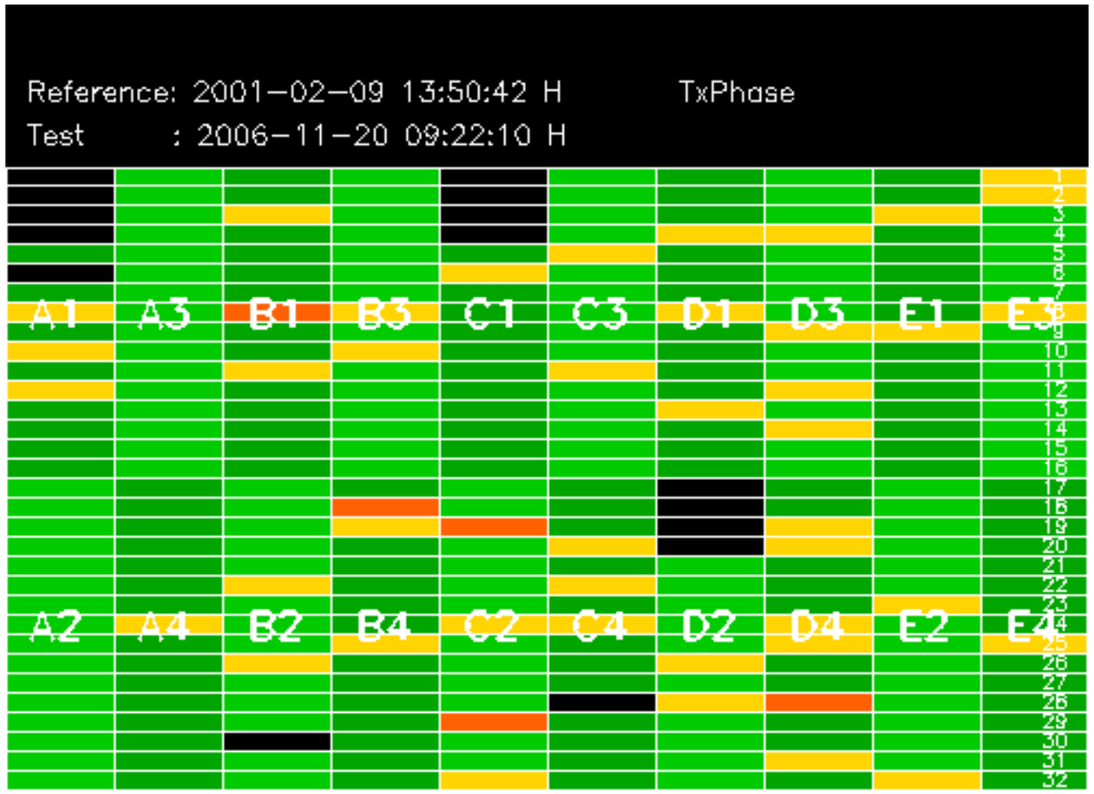
Summary of analysis for the last 3 days 2006112[012]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th>  num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_GM1_1PNPDK20061121_175710_000004892053_00113_24716_9089.N1 </td> <td>0 </td> <td>23 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20061120_140442_000002022053_00096_24699_0001.N1 </td> <td>0 </td> <td>34 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20061120_182348_000001652053_00099_24702_0001.N1 </td> <td>0 </td> <td>18 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20061121_133205_000001592053_00110_24713_3226.N1 </td> <td>0 </td> <td>34 </td></tr>
</table><br><br><br>


num_gaps
1
0.5
0
-0.5
-1
24690
24700
24710
24720
24730
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
24690
24700
24710
24720
24730
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
TxPhase
Test : 2006-11-20 09:22:10 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
13
14
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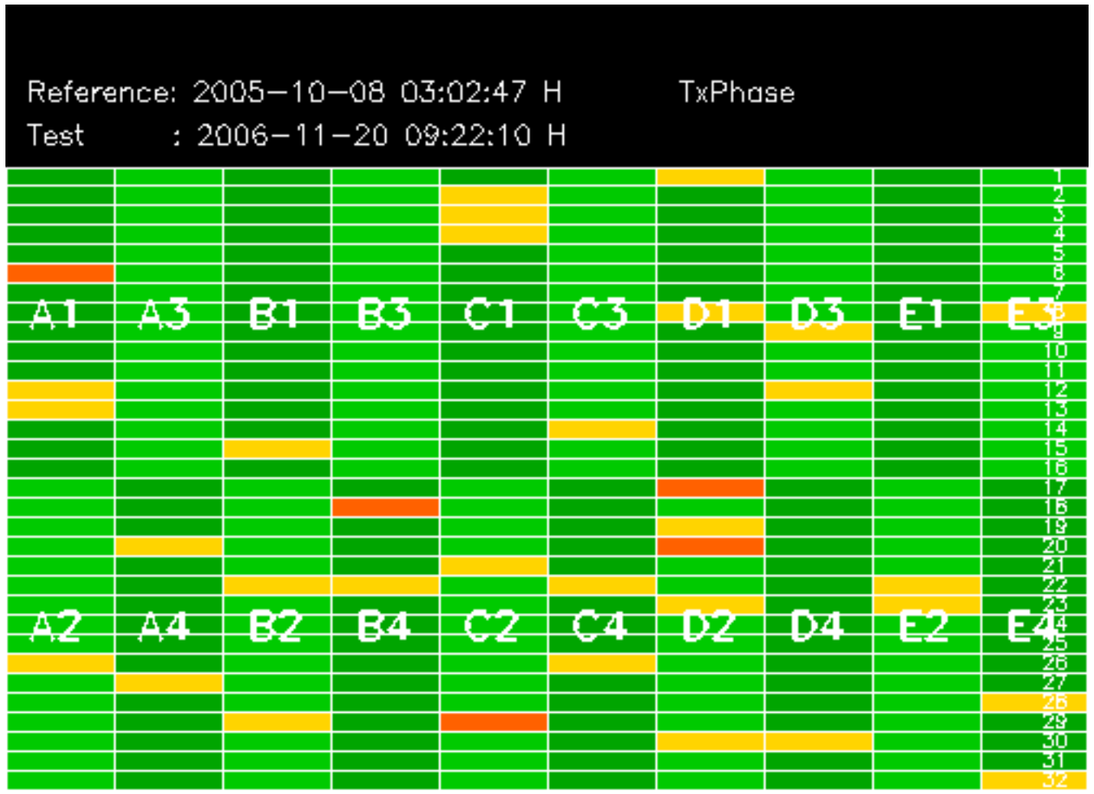
32


Reference: 2005-10-08 03:02:47 H
Test : 2006-11-20 09:22:10 H
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
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8
9
10
11
12
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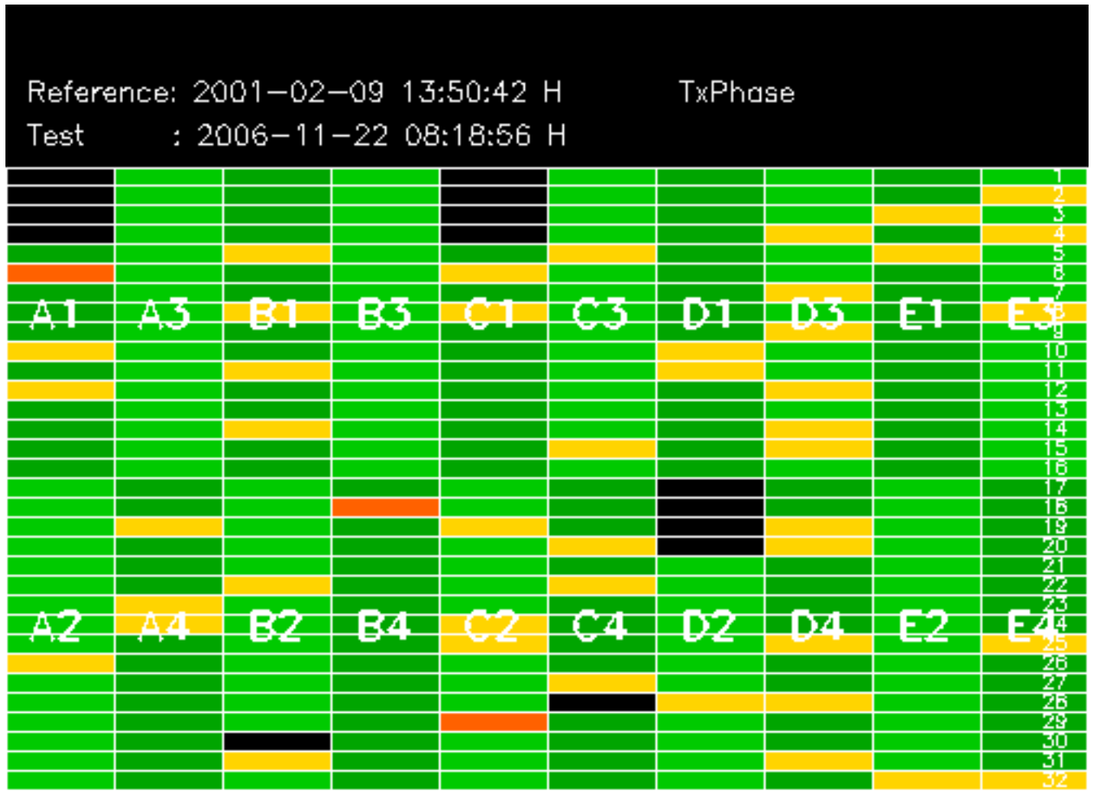
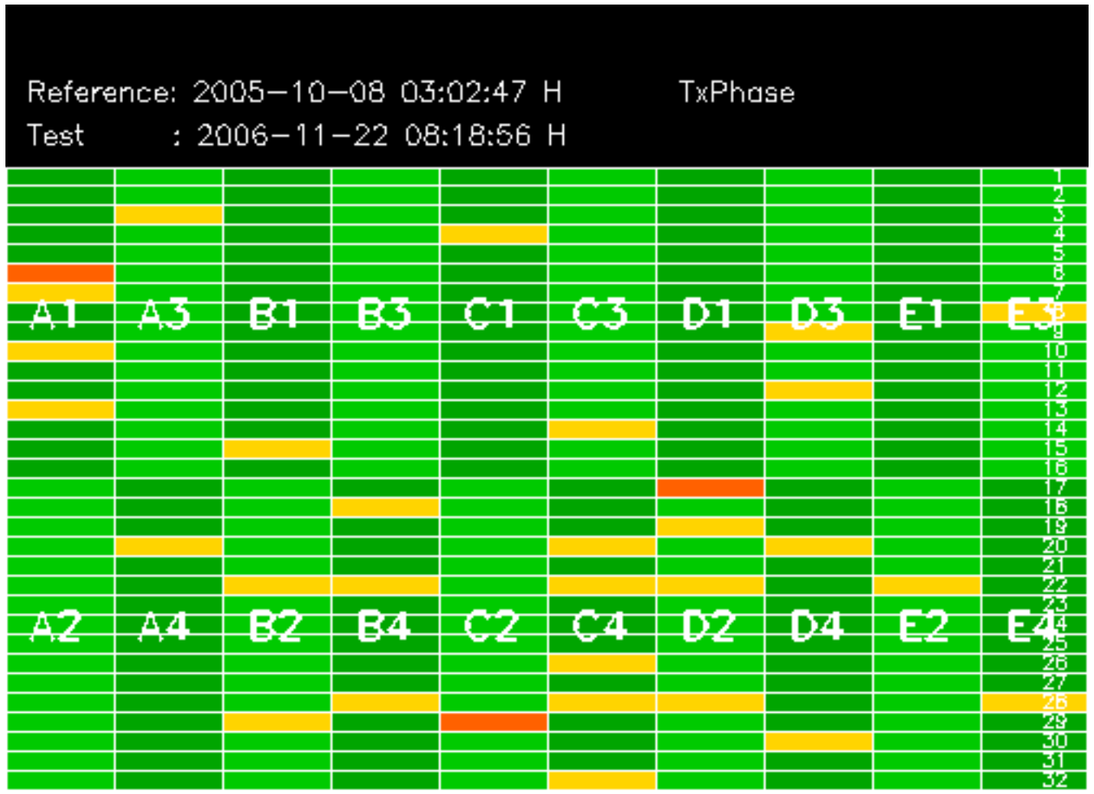
32


Reference: 2001-02-09 13:50:42 H
Test : 2006-11-22 08:18:56 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 : 2006-11-22 08:18:56 H
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
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8
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32


Reference: 2001-02-09 14:08:23 V
Test : 2006-11-21 08:50:33 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
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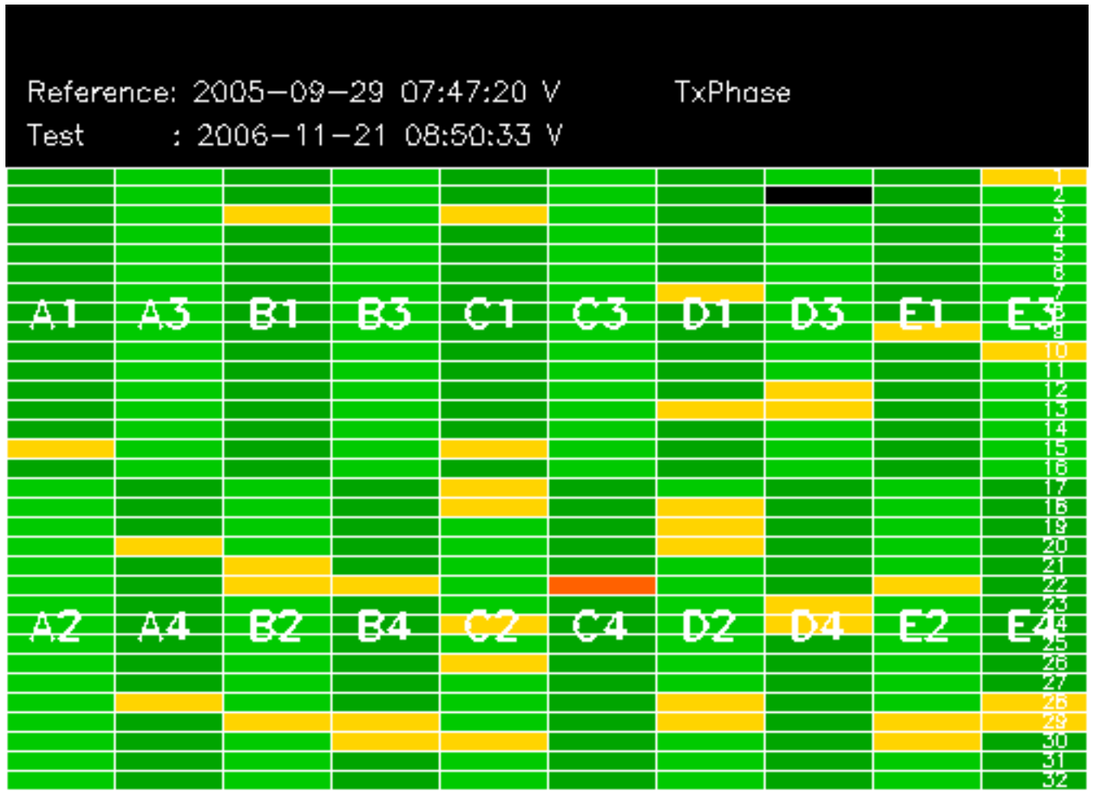
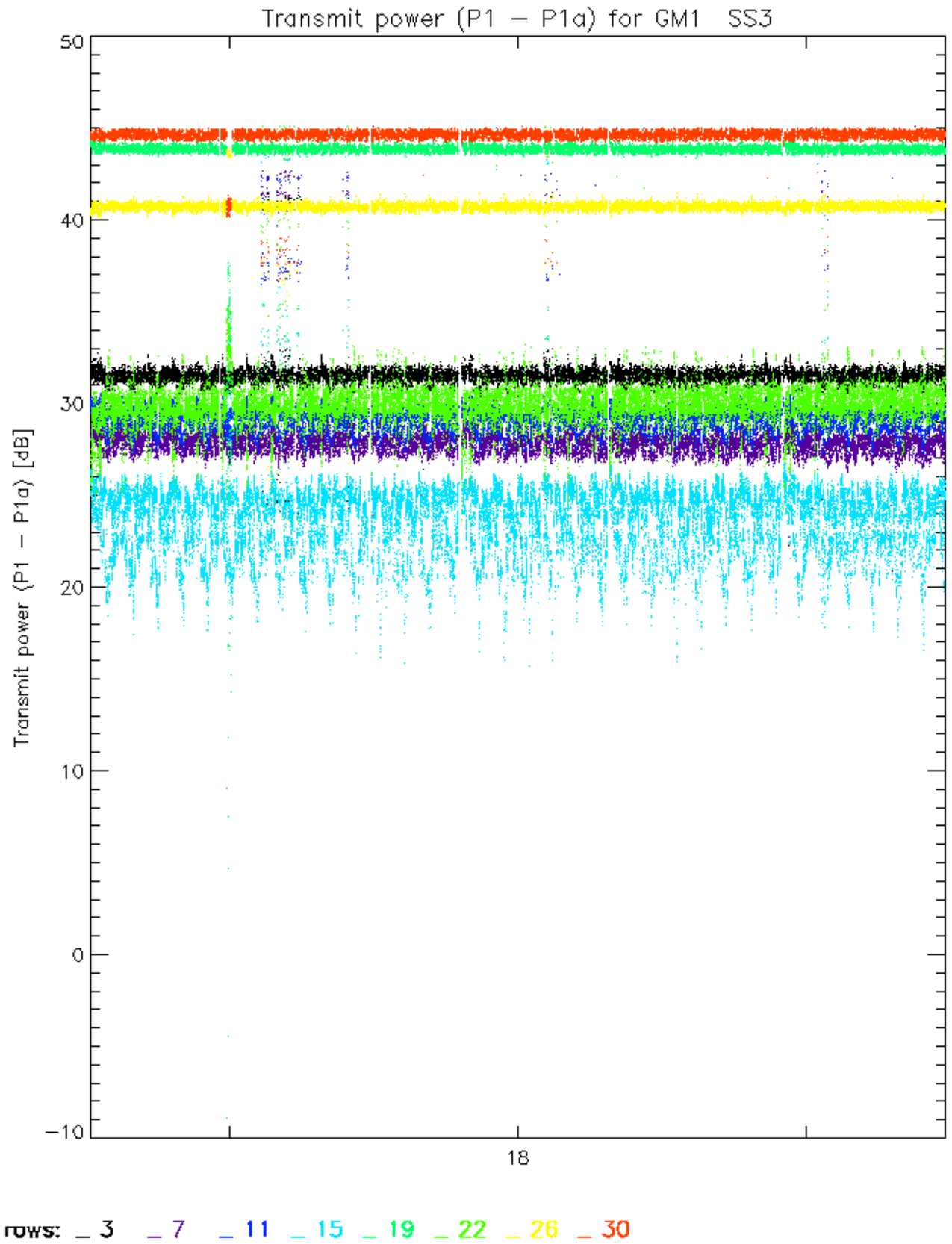
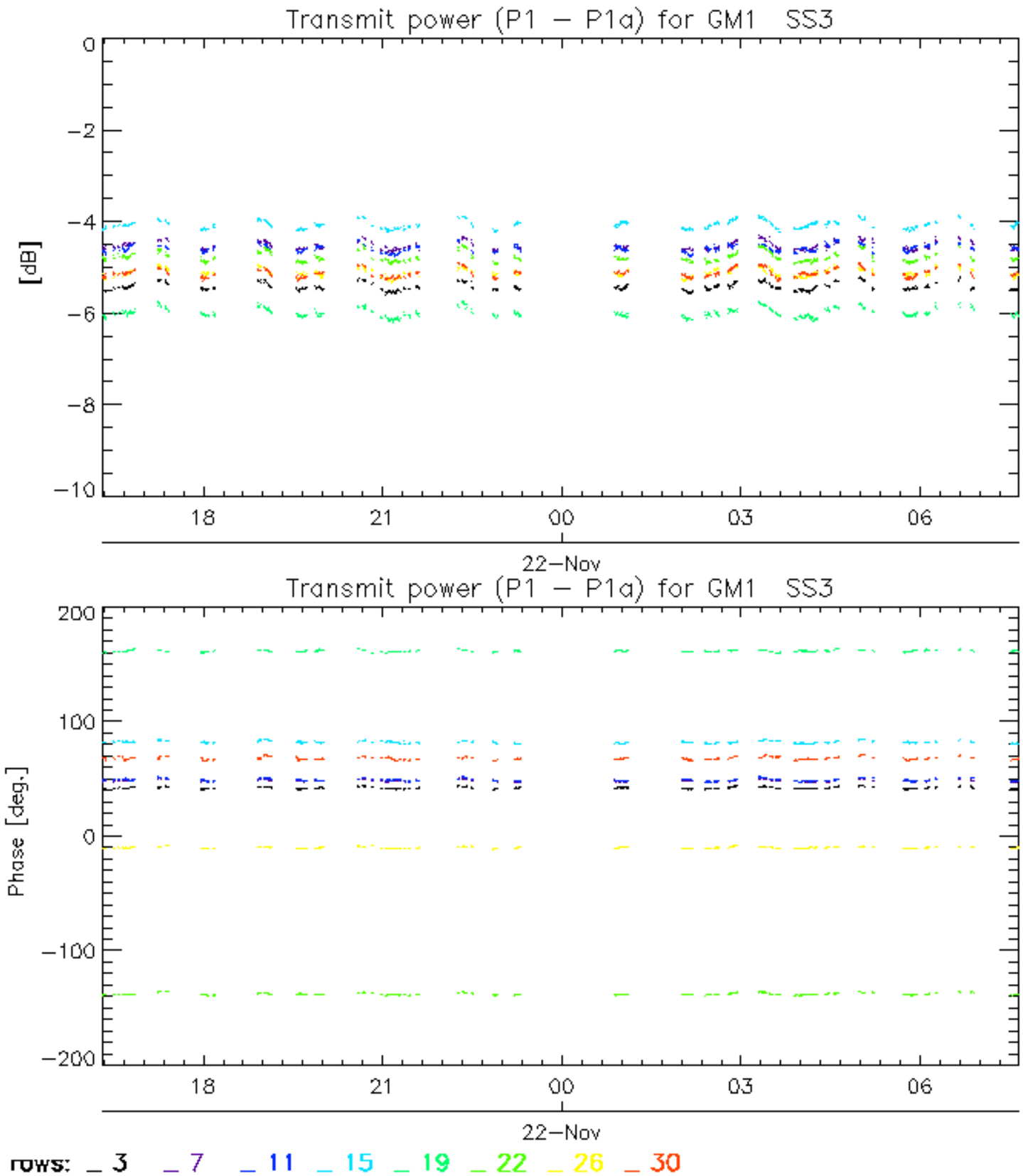
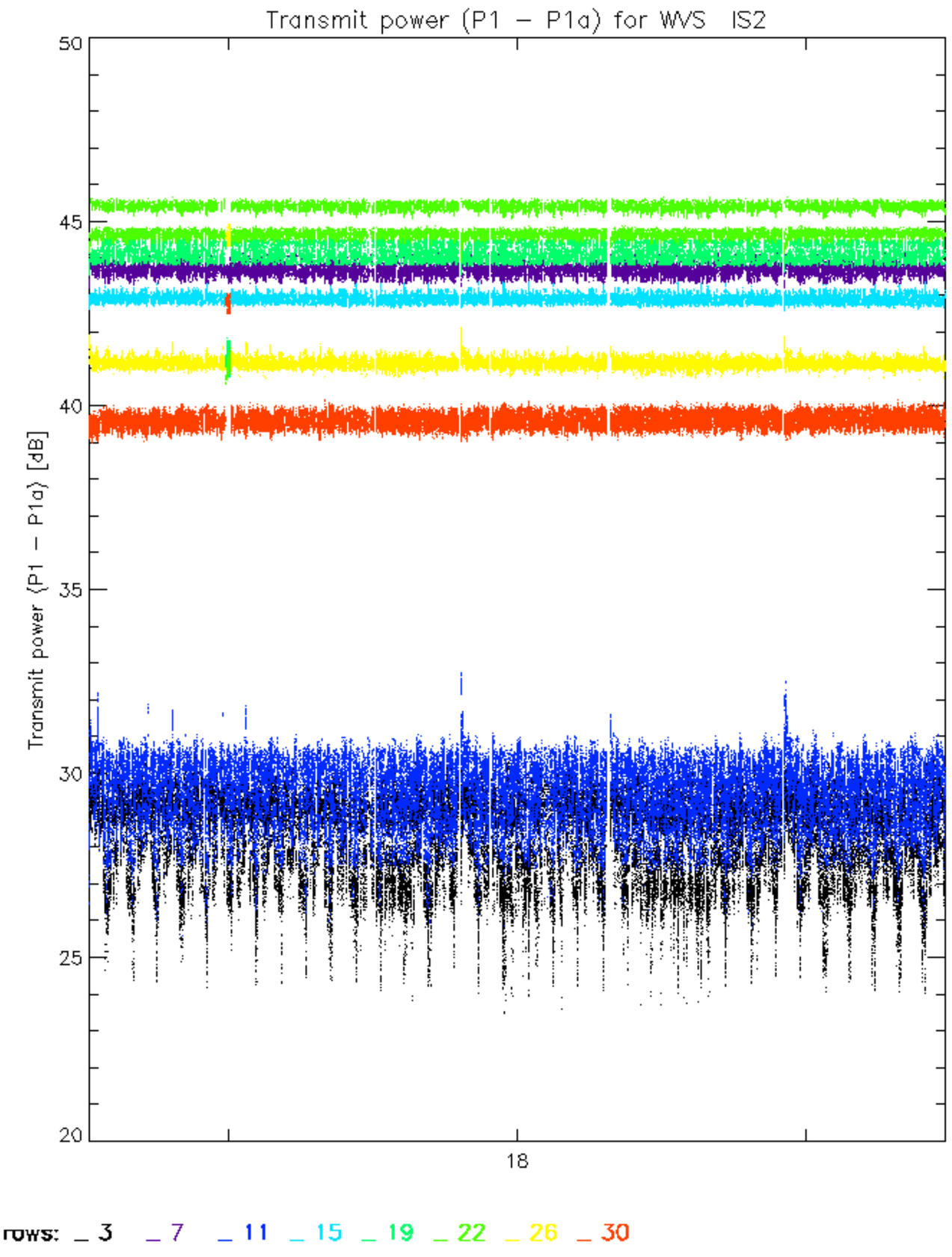
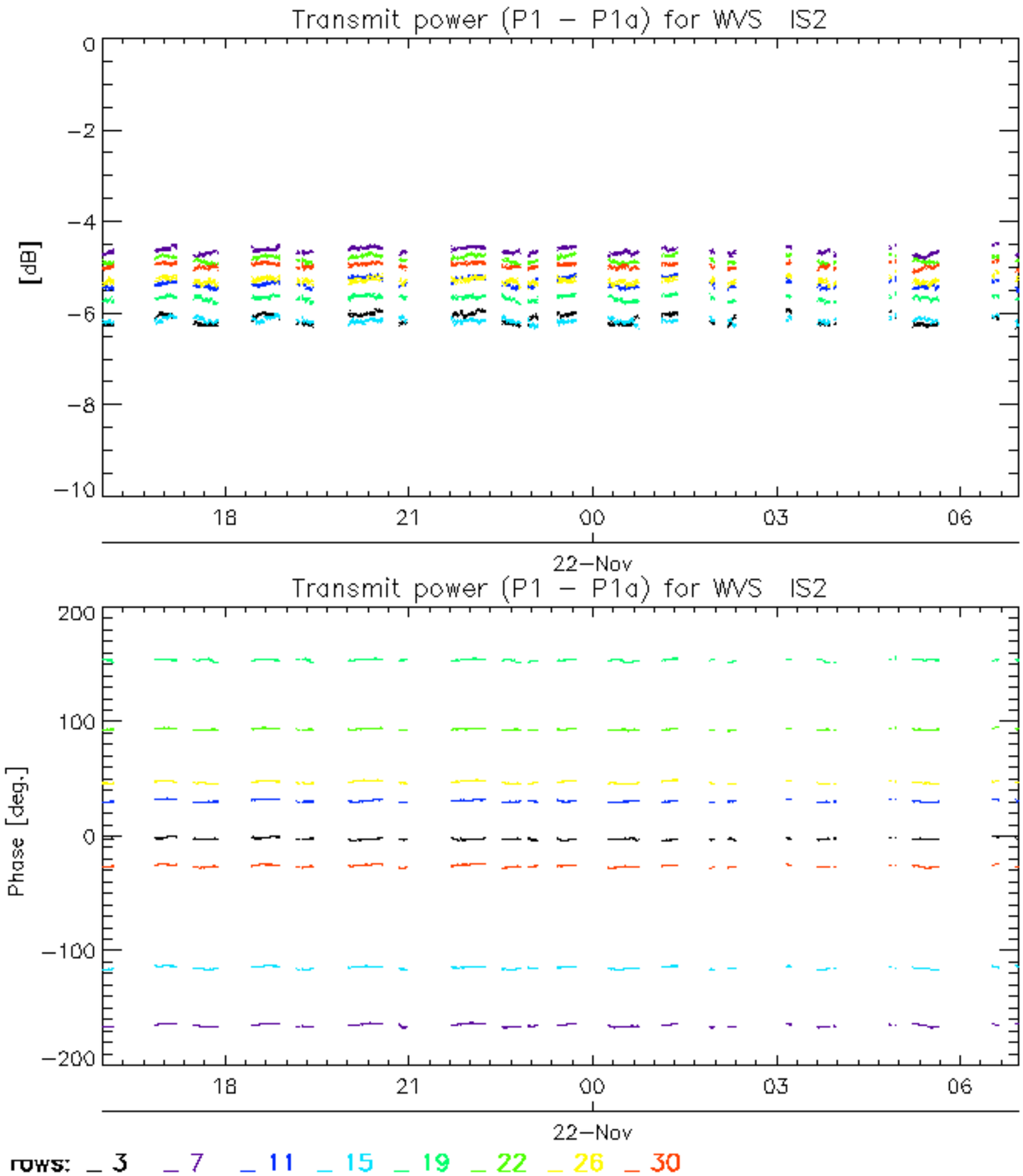
32


Reference: 2005-09-29 07:47:20 V
Test : 2006-11-21 08:50:33 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
18
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
22–Nov
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
22–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
18
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
22−Nov
Transmit power (P1 − P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
22−Nov
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.