

# PRELIMINARY REPORT OF 070117

last update on Wed Jan 17 16:30:38 GMT 2007

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## 1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA\_WVS\_1P), global monitoring products (ASA\_GM1\_1P), which are the available few hours after the acquisition, on the browse (BP) products and on the Module Stepping (MS) product.

## 2 - Summary

### 2.1 - Instrument Unavailability

No unavailabilities during the reported period.

### 2.2 - Auxiliary files

Summary of the auxiliary files used from 2007-01-16 00:00:00 to 2007-01-17 16:30:38

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

|   |    |    |    |   |   |
|---|----|----|----|---|---|
| ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000 | 48 | 66 | 10 | 1 | 0 |
| ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000 | 48 | 66 | 10 | 1 | 0 |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 48 | 66 | 10 | 1 | 0 |
| ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000 | 48 | 66 | 10 | 1 | 0 |

| PDHS-E  |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| AUXILIARY FILE  | WVS | GM1 | IMM | APM | WSM |
| ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000 | 46  | 49  | 38  | 7   | 65  |
| ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000 | 46  | 49  | 38  | 7   | 65  |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 46  | 49  | 38  | 7   | 65  |
| ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000 | 46  | 49  | 38  | 7   | 65  |

## 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            | 20070116 042853 |
| H            | 20070117 071828 |

### 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    | -3.963710  | 0.007413   | -0.012326       |
| 7   | P1    | -3.133477  | 0.046639   | 0.016978        |
| 11  | P1    | -4.116633  | 0.025070   | -0.015072       |
| 15  | P1    | -6.334568  | 0.016716   | -0.039765       |
| 19  | P1    | -3.685434  | 0.006164   | -0.056731       |
| 22  | P1    | -4.679451  | 0.016400   | -0.039696       |
| 26  | P1    | -3.952173  | 0.009969   | 0.010660        |
| 30  | P1    | -5.916870  | 0.008696   | -0.022527       |
| 3   | P1    | -16.518671 | 0.253653   | 0.042802        |
| 7   | P1    | -17.264425 | 0.182901   | 0.039163        |
| 11  | P1    | -17.270805 | 0.447029   | -0.062534       |
| 15  | P1    | -13.035847 | 0.125946   | -0.031872       |
| 19  | P1    | -15.088363 | 0.111337   | -0.121088       |
| 22  | P1    | -15.807001 | 0.549236   | 0.035641        |
| 26  | P1    | -15.025769 | 0.186711   | -0.026581       |
| 30  | P1    | -17.534966 | 0.495524   | -0.075343       |

### P2 Cyclic statistics

| row | pulse | mean (dB)  | stdev (dB) | slope(dB/cycle) |
|-----|-------|------------|------------|-----------------|
| 3   | P2    | -20.781763 | 0.090001   | 0.012090        |
| 7   | P2    | -21.667187 | 0.088413   | 0.030833        |
| 11  | P2    | -15.530748 | 0.099790   | 0.010647        |
| 15  | P2    | -7.092011  | 0.103243   | -0.000564       |
| 19  | P2    | -9.171965  | 0.096852   | 0.012377        |
| 22  | P2    | -18.220367 | 0.089402   | -0.025133       |
| 26  | P2    | -16.593884 | 0.102268   | -0.009398       |
| 30  | P2    | -19.432598 | 0.084369   | 0.017477        |

### P3 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|-----|-------|-----------|------------|-----------------|
| 3   | P3    | -8.236444 | 0.008392   | -0.023481       |
| 7   | P3    | -8.236444 | 0.008392   | -0.023481       |
| 11  | P3    | -8.236444 | 0.008392   | -0.023481       |
| 15  | P3    | -8.236444 | 0.008392   | -0.023481       |
| 19  | P3    | -8.236444 | 0.008392   | -0.023481       |
| 22  | P3    | -8.236444 | 0.008392   | -0.023481       |
| 26  | P3    | -8.236470 | 0.008392   | -0.023410       |
| 30  | P3    | -8.236470 | 0.008392   | -0.023410       |

#### 4.2.2 - Evolution 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    | -3.919557  | 0.013551   | -0.011694       |
| 7   | P1    | -2.471105  | 0.068932   | 0.037372        |
| 11  | P1    | -2.829634  | 0.015908   | 0.017560        |
| 15  | P1    | -3.711867  | 0.032470   | -0.050227       |
| 19  | P1    | -3.549845  | 0.018768   | -0.035802       |
| 22  | P1    | -5.003324  | 0.022812   | 0.011477        |
| 26  | P1    | -6.039058  | 0.025826   | -0.057648       |
| 30  | P1    | -5.346370  | 0.037119   | -0.033454       |
| 3   | P1    | -11.722650 | 0.078588   | -0.008827       |
| 7   | P1    | -10.038004 | 0.092442   | 0.069272        |
| 11  | P1    | -10.364758 | 0.092397   | -0.026301       |
| 15  | P1    | -10.740791 | 0.162210   | -0.034210       |
| 19  | P1    | -15.744360 | 0.106658   | -0.074948       |
| 22  | P1    | -21.517923 | 1.479298   | 0.152077        |
| 26  | P1    | -15.963669 | 0.323368   | 0.132858        |
| 30  | P1    | -17.932899 | 0.379526   | -0.128942       |

## P2 Cyclic statistics

| row | pulse | mean (dB)  | stdev (dB) | slope(dB/cycle) |
|-----|-------|------------|------------|-----------------|
| 3   | P2    | -16.420618 | 0.100260   | 0.070627        |
| 7   | P2    | -22.180468 | 0.237025   | -0.012268       |
| 11  | P2    | -10.826784 | 0.092499   | 0.019653        |
| 15  | P2    | -4.954794  | 0.210480   | 0.002289        |
| 19  | P2    | -6.940860  | 0.214025   | 0.010477        |
| 22  | P2    | -8.229884  | 0.124221   | -0.019469       |
| 26  | P2    | -24.340542 | 0.161652   | -0.059947       |
| 30  | P2    | -21.899519 | 0.140592   | 0.046365        |

## P3 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|-----|-------|-----------|------------|-----------------|
| 3   | P3    | -8.085947 | 0.003224   | -0.013463       |
| 7   | P3    | -8.085716 | 0.003199   | -0.013438       |
| 11  | P3    | -8.085907 | 0.003222   | -0.013360       |
| 15  | P3    | -8.085746 | 0.003212   | -0.013981       |
| 19  | P3    | -8.085846 | 0.003223   | -0.013375       |
| 22  | P3    | -8.085719 | 0.003220   | -0.014212       |
| 26  | P3    | -8.086078 | 0.003217   | -0.013468       |
| 30  | P3    | -8.085803 | 0.003201   | -0.012983       |

## 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  | 0.000571418 |
|         | stdev | 1.62963e-07 |
| MEAN Q  | mean  | 0.000509666 |
|         | stdev | 2.10797e-07 |



## 5.2 - Input stdev I/Q

| channel | stat  | DSS-B      |
|---------|-------|------------|
| STDEV I | mean  | 0.140463   |
|         | stdev | 0.00116591 |
| STDEV Q | mean  | 0.140862   |
|         | stdev | 0.00118573 |



## 5.3 - Gain imbalance I/Q



## 6 - Telemetry analysis

Summary of analysis for the last 3 days 2007011[567]

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_WVS_1PNPDK20070115_150216_000000002054_00397_25501_7820.N1 | 1        | 0                 |
| ASA_WVS_1PNPDK20070115_150216_000000002054_00397_25501_7978.N1 | 1        | 0                 |
| ASA_GM1_1PNPDK20070115_091257_000003202054_00394_25498_7135.N1 | 0        | 7                 |
| ASA_GM1_1PNPDK20070115_134639_000003622054_00396_25500_7796.N1 | 0        | 14                |
| ASA_GM1_1PNPDK20070116_183117_000003082054_00414_25518_9835.N1 | 0        | 19                |
| ASA_WSM_1PNPDE20070115_112055_000000852054_00395_25499_8381.N1 | 0        | 28                |
| ASA_WSM_1PNPDE20070115_185945_000000912054_00400_25504_8532.N1 | 0        | 2                 |
| ASA_WSM_1PNPDE20070116_150734_000001762054_00412_25516_9712.N1 | 0        | 36                |



## 7 - Doppler Analysis

Preliminary report. The data is not yet controlled

### 7.1 - Unbiased Doppler Error for WVS

#### Evolution of unbiased Doppler error (Real - Expected)

|                          |
|--------------------------|
| <input type="checkbox"/> |
| Ascending                |
| <input type="checkbox"/> |
| Descending               |

### 7.2 - Absolute Doppler for WVS

#### Evolution of Absolute Doppler

|                          |
|--------------------------|
| <input type="checkbox"/> |
| Ascending                |
| <input type="checkbox"/> |
| Descending               |

### 7.3 - Doppler evolution versus ANX for WVS

#### Evolution Doppler error versus ANX

|                          |
|--------------------------|
| <input type="checkbox"/> |
|--------------------------|

### 7.4 - Unbiased Doppler Error for GM1

**Evolution of unbiased Doppler error (Real - Expected)**

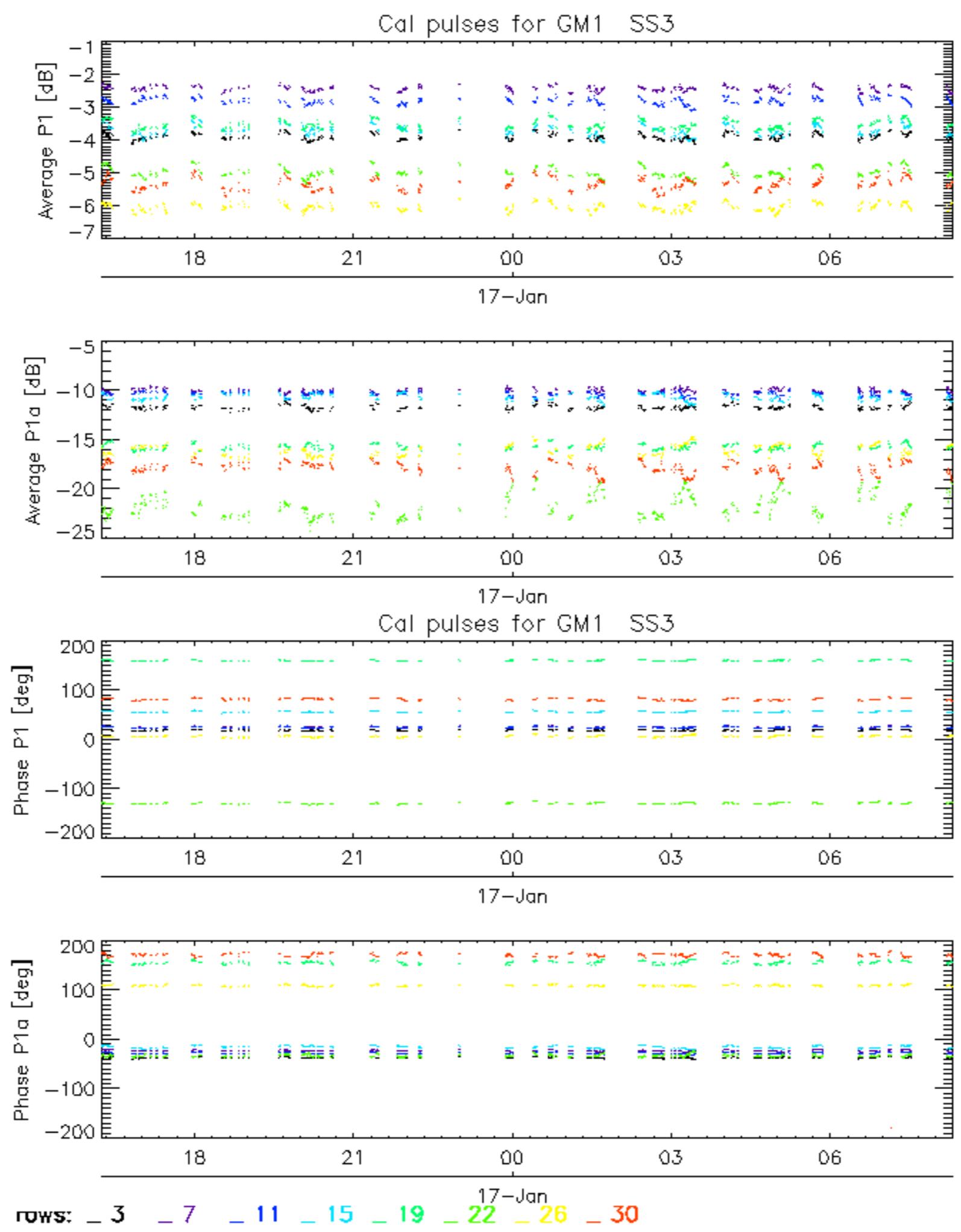
|                                     |
|-------------------------------------|
| <input checked="" type="checkbox"/> |
| Ascending                           |
| <input checked="" type="checkbox"/> |
| Descending                          |

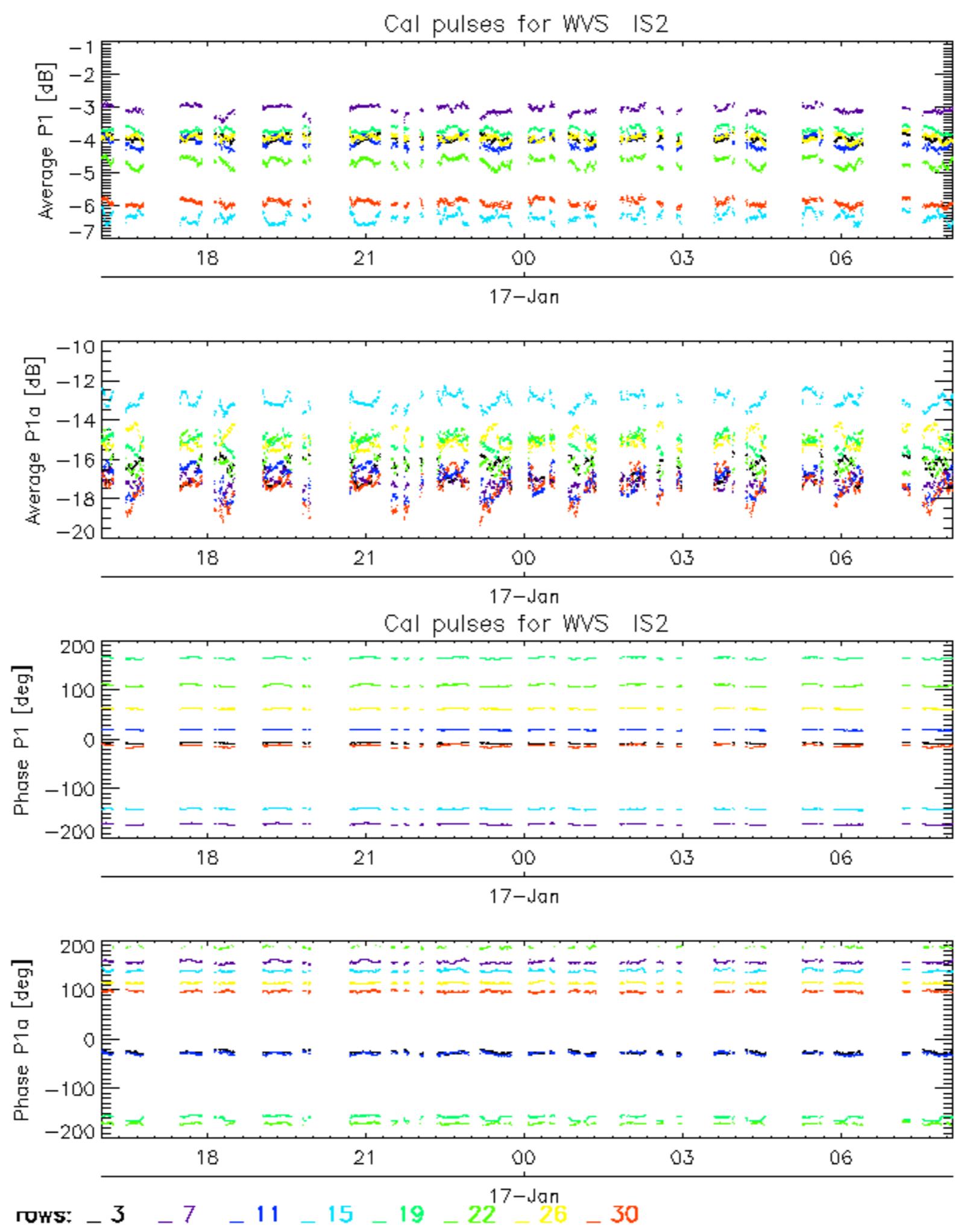
**7.5 - Absolute Doppler for GM1****Evolution of Absolute Doppler**

|                                     |
|-------------------------------------|
| <input checked="" type="checkbox"/> |
| Ascending                           |
| <input checked="" type="checkbox"/> |
| Descending                          |

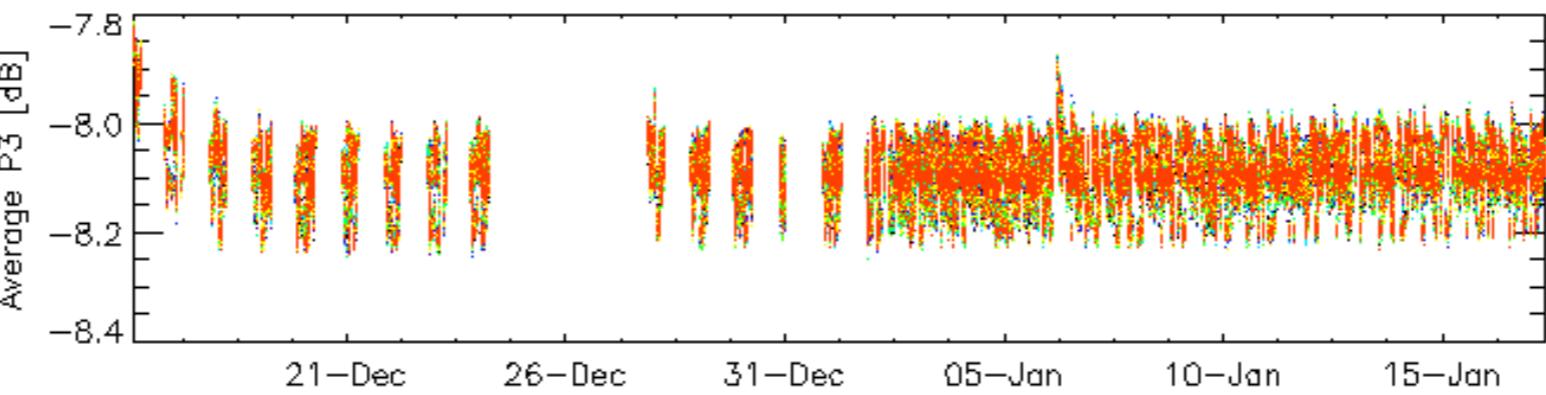
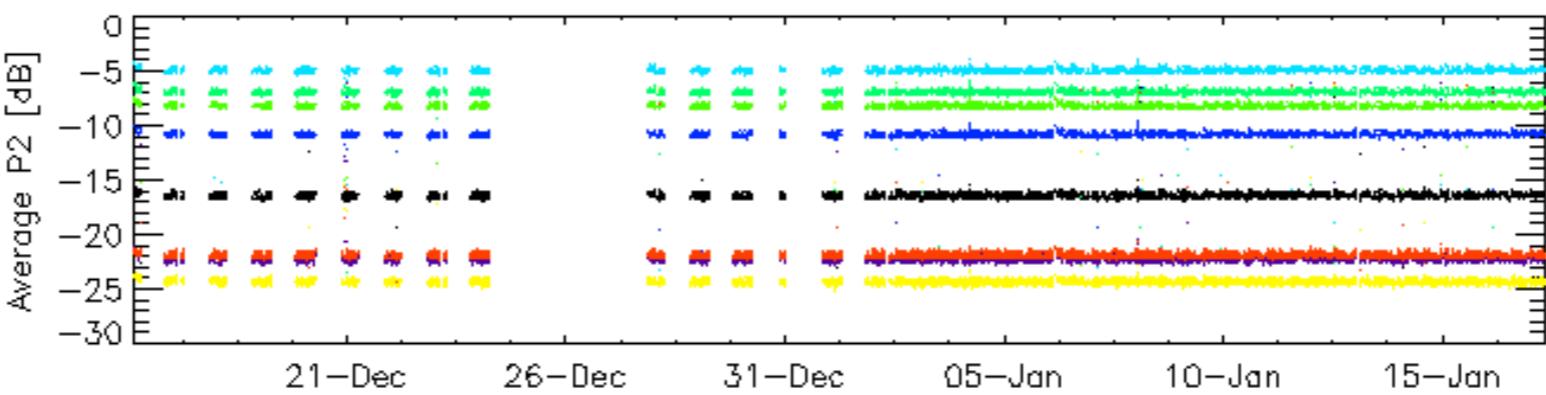
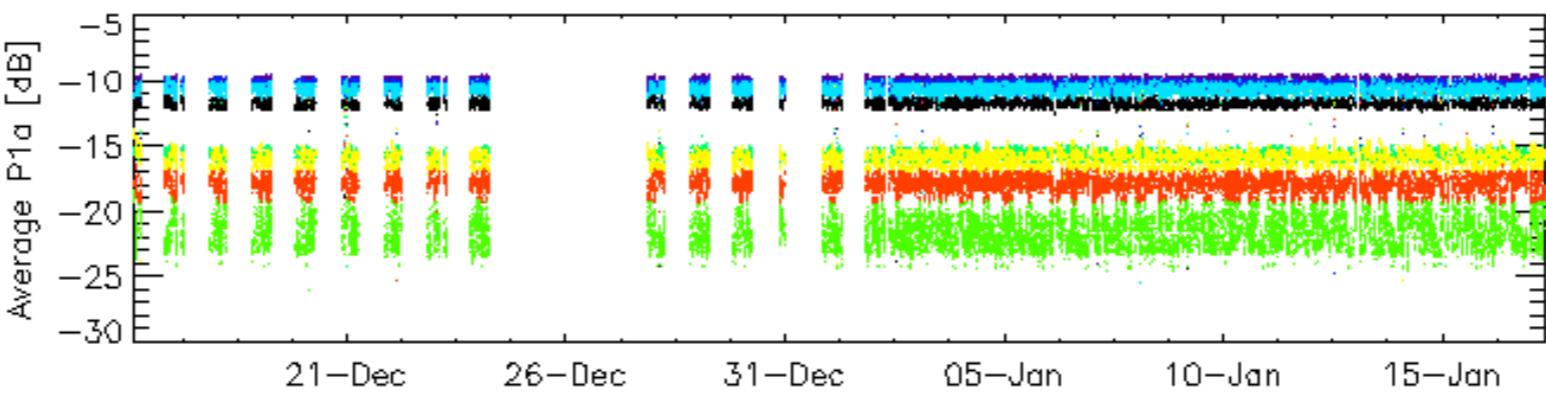
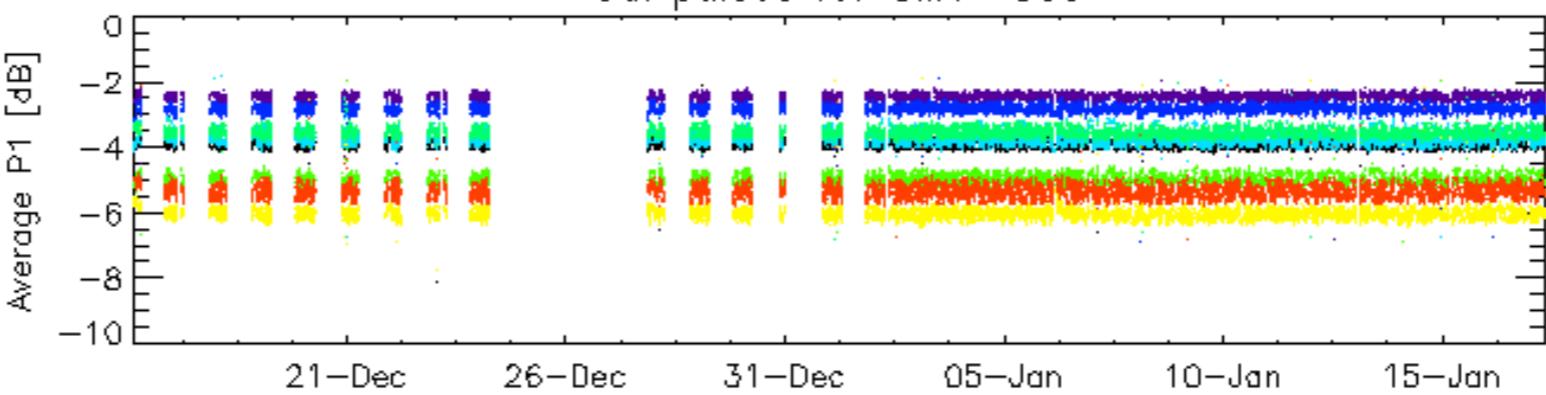
**7.6 - Doppler evolution versus ANX for GM1****Evolution Doppler error versus ANX**

|                                     |
|-------------------------------------|
| <input checked="" type="checkbox"/> |
|-------------------------------------|

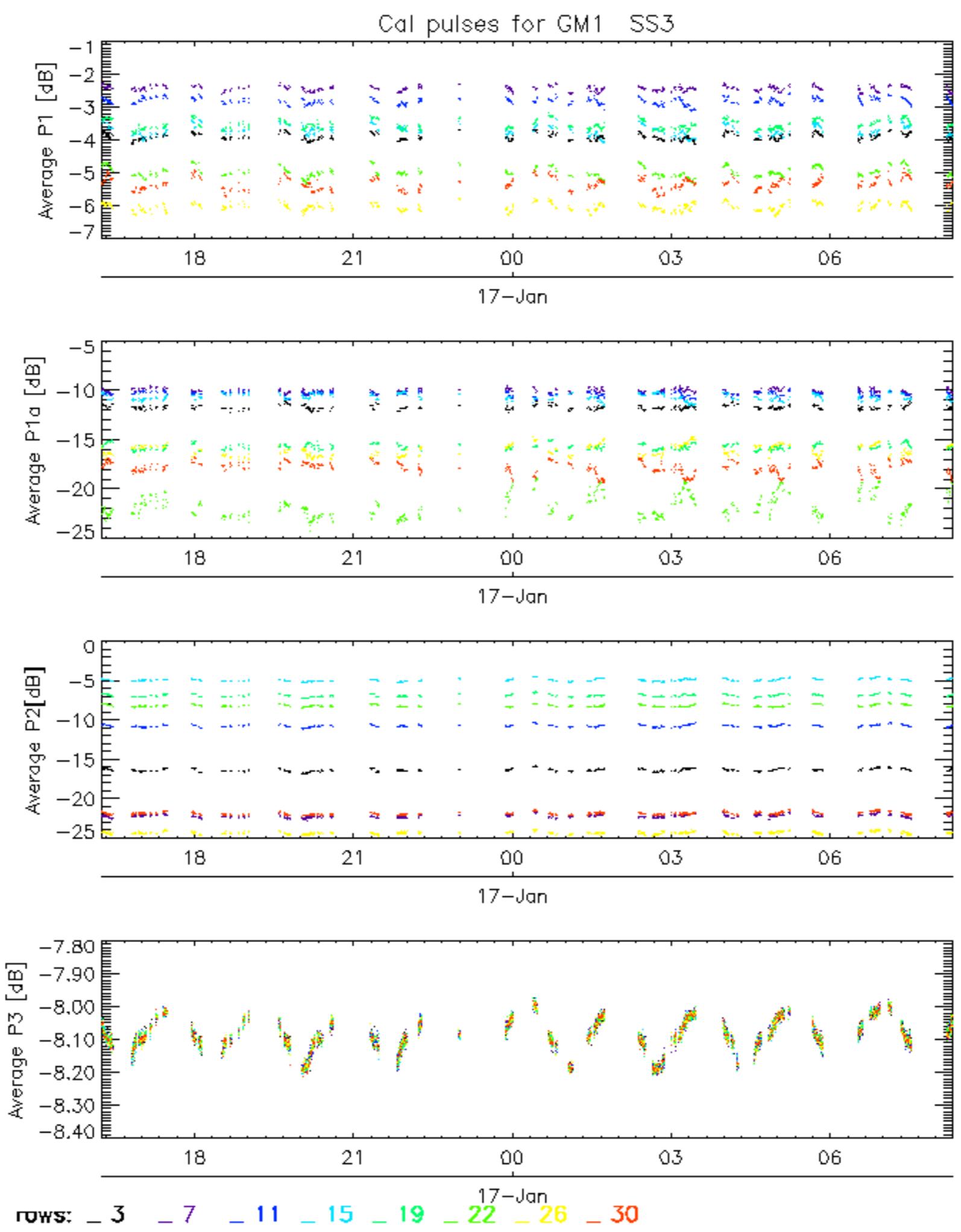




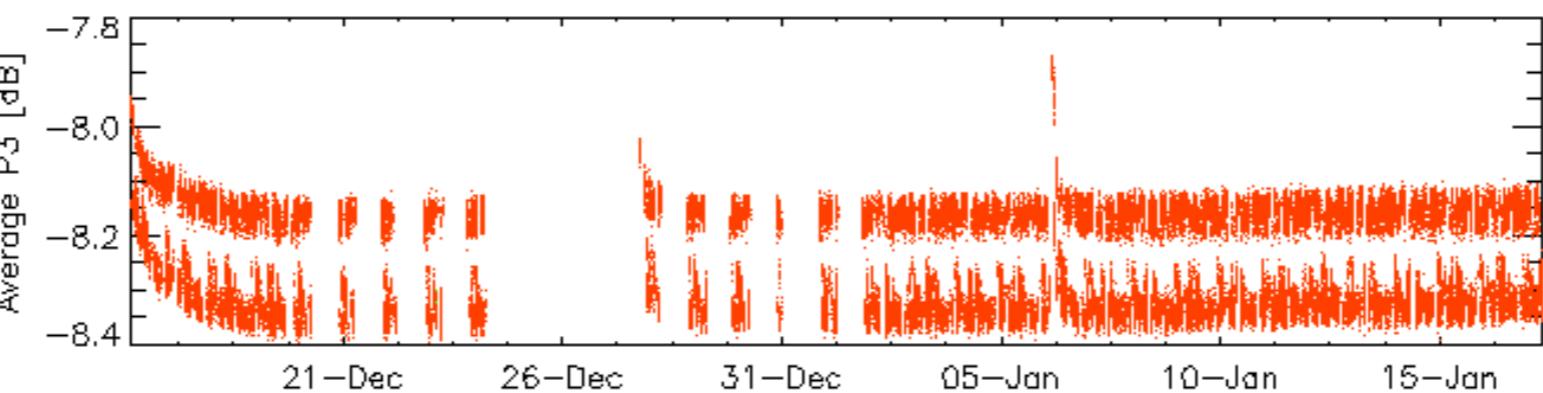
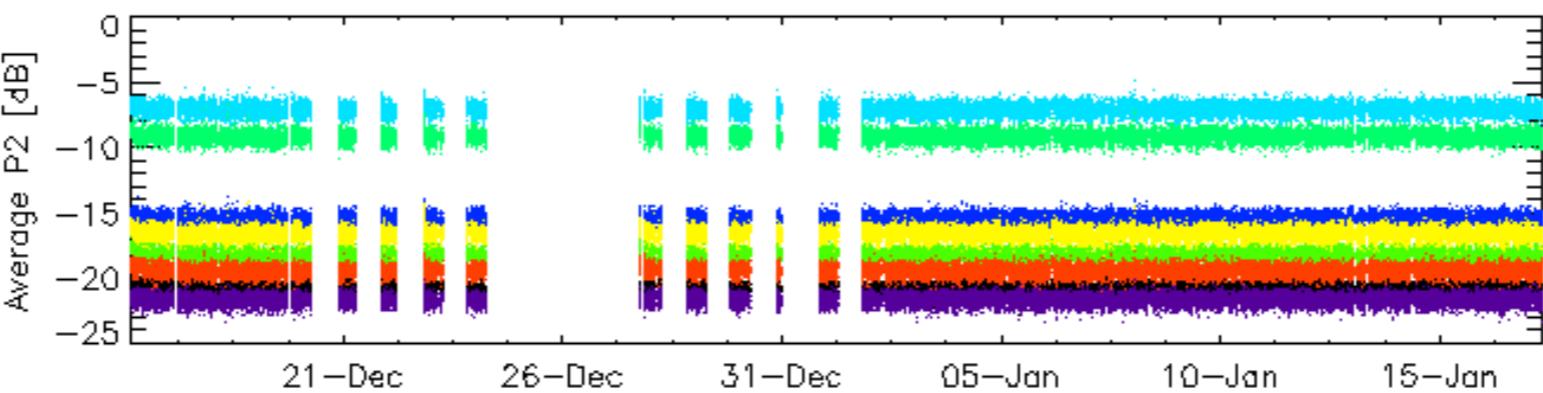
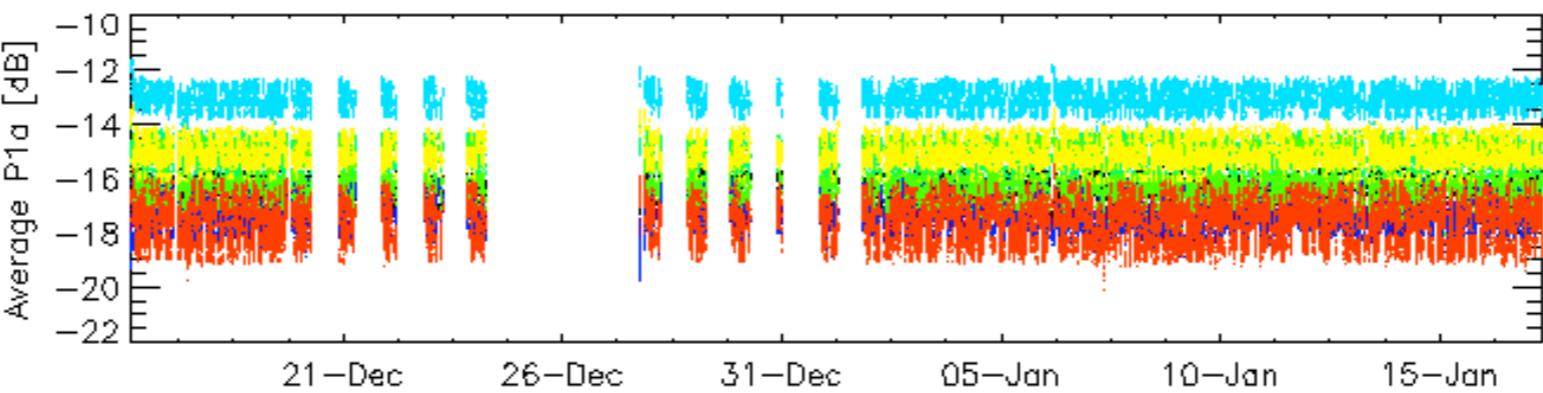
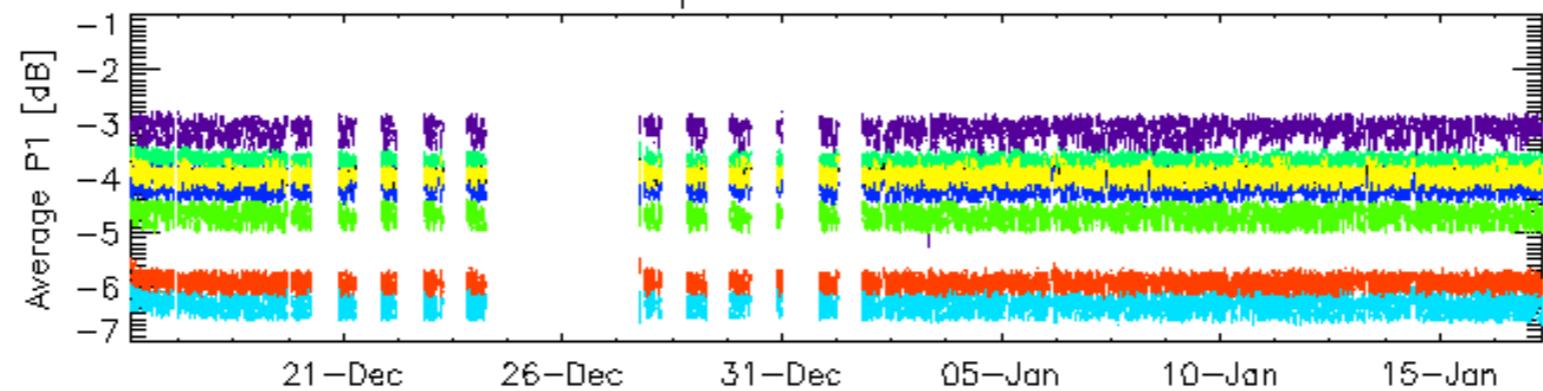
## Cal pulses for GM1 SS3



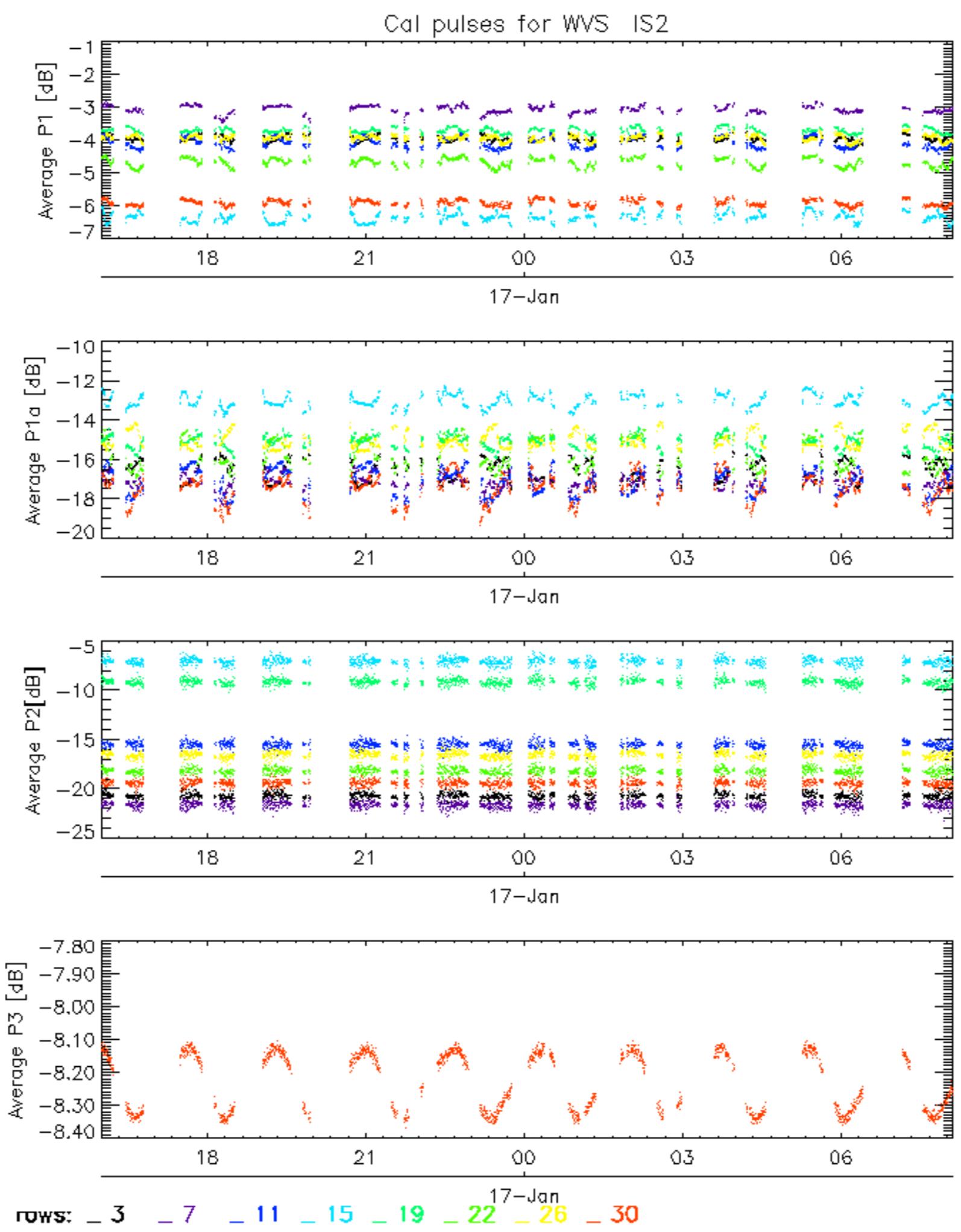
ROWS: \_ 3 \_ 7 \_ 11 \_ 15 \_ 19 \_ 22 \_ 26 \_ 30



## Cal pulses for WVS IS2

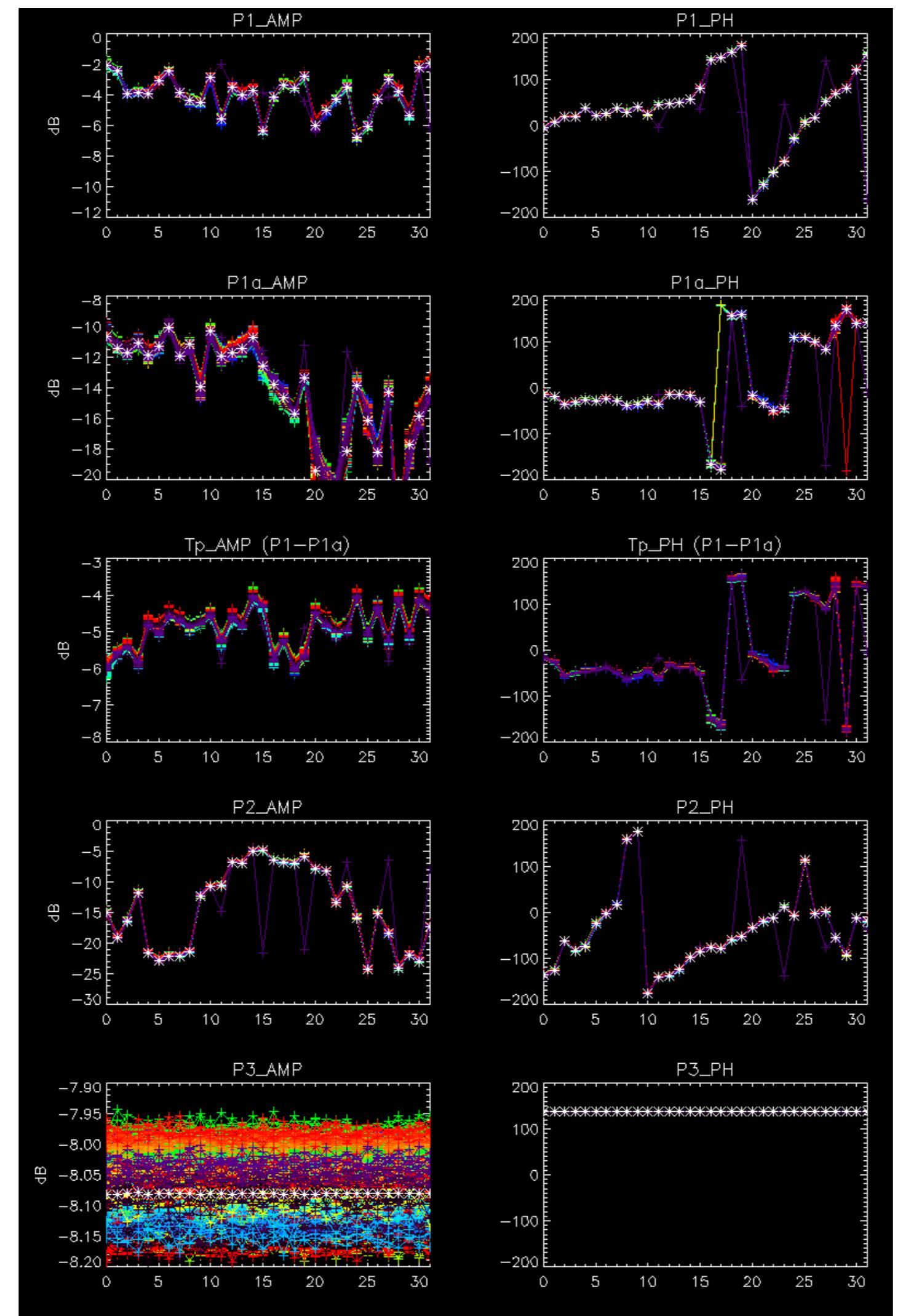


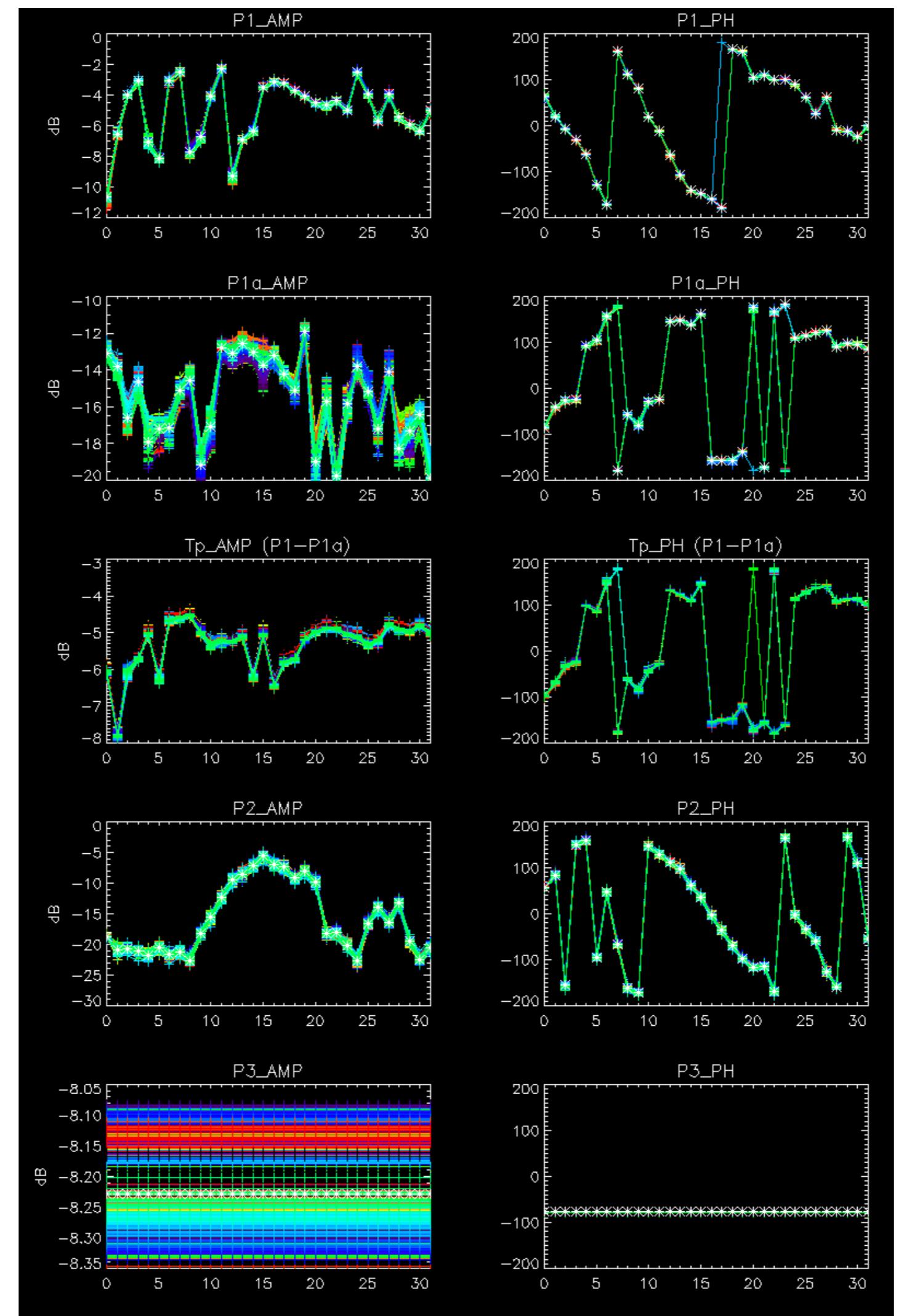
ROWS: \_ 3 \_ 7 \_ 11 \_ 15 \_ 19 \_ 22 \_ 26 \_ 30



No anomalies observed.



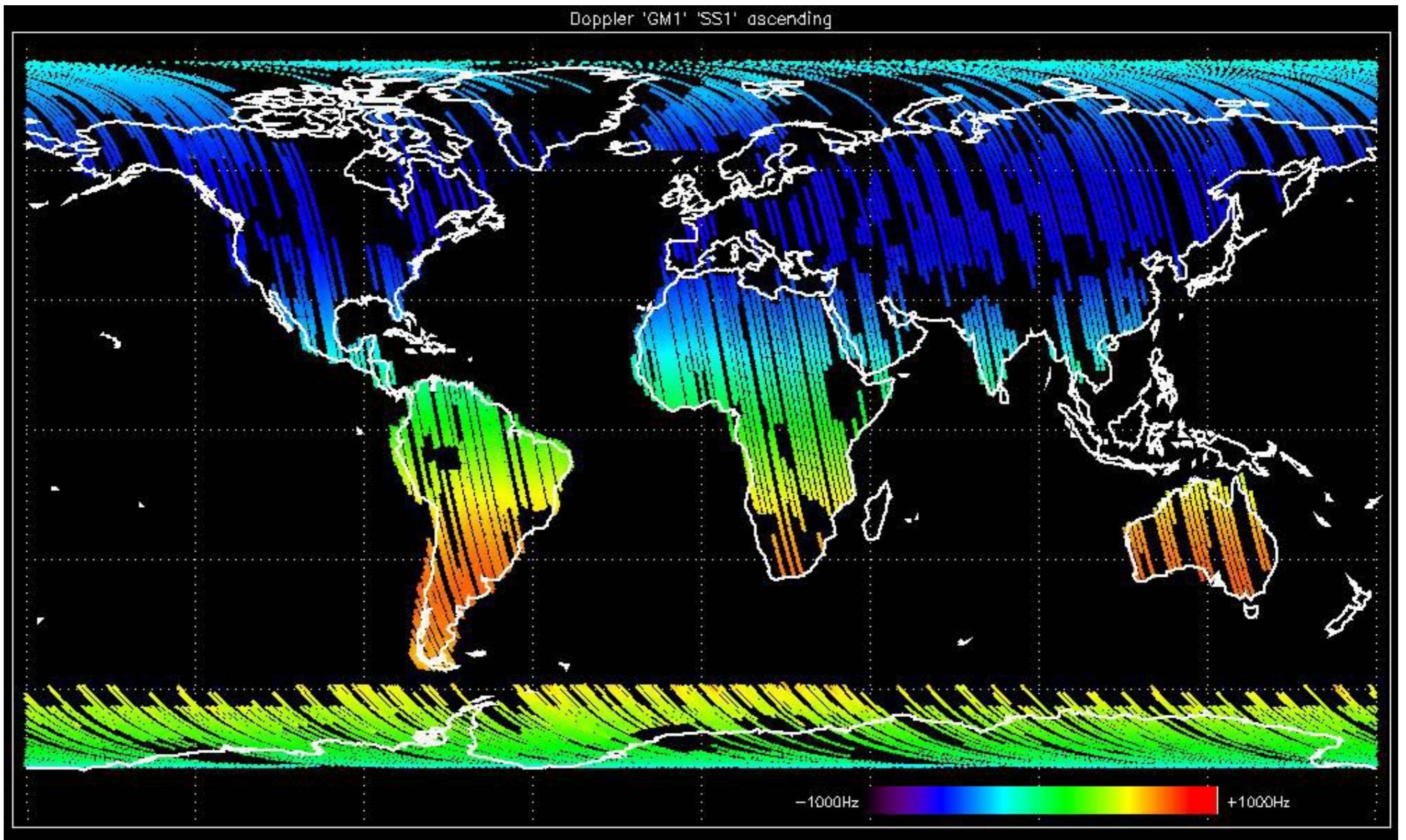


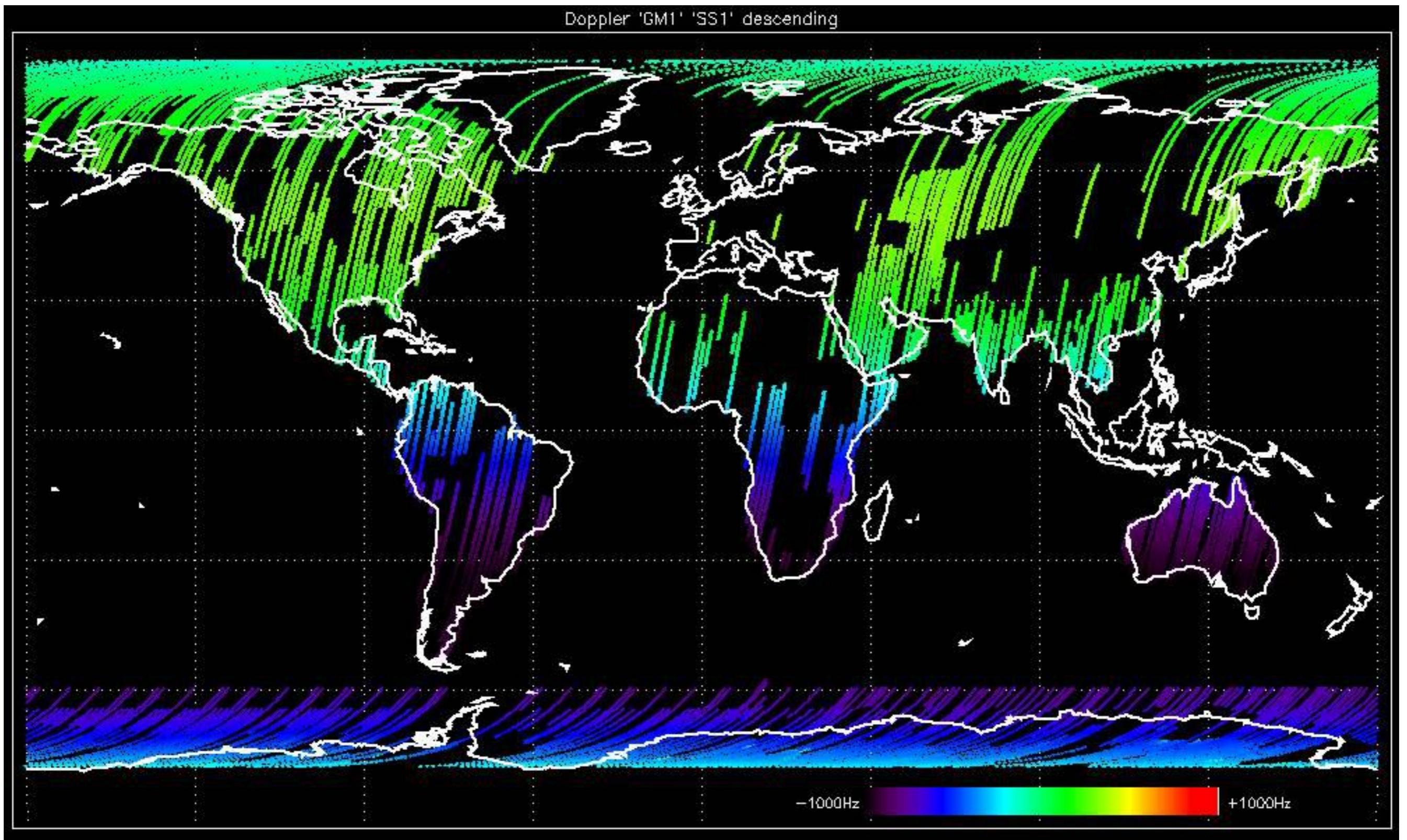


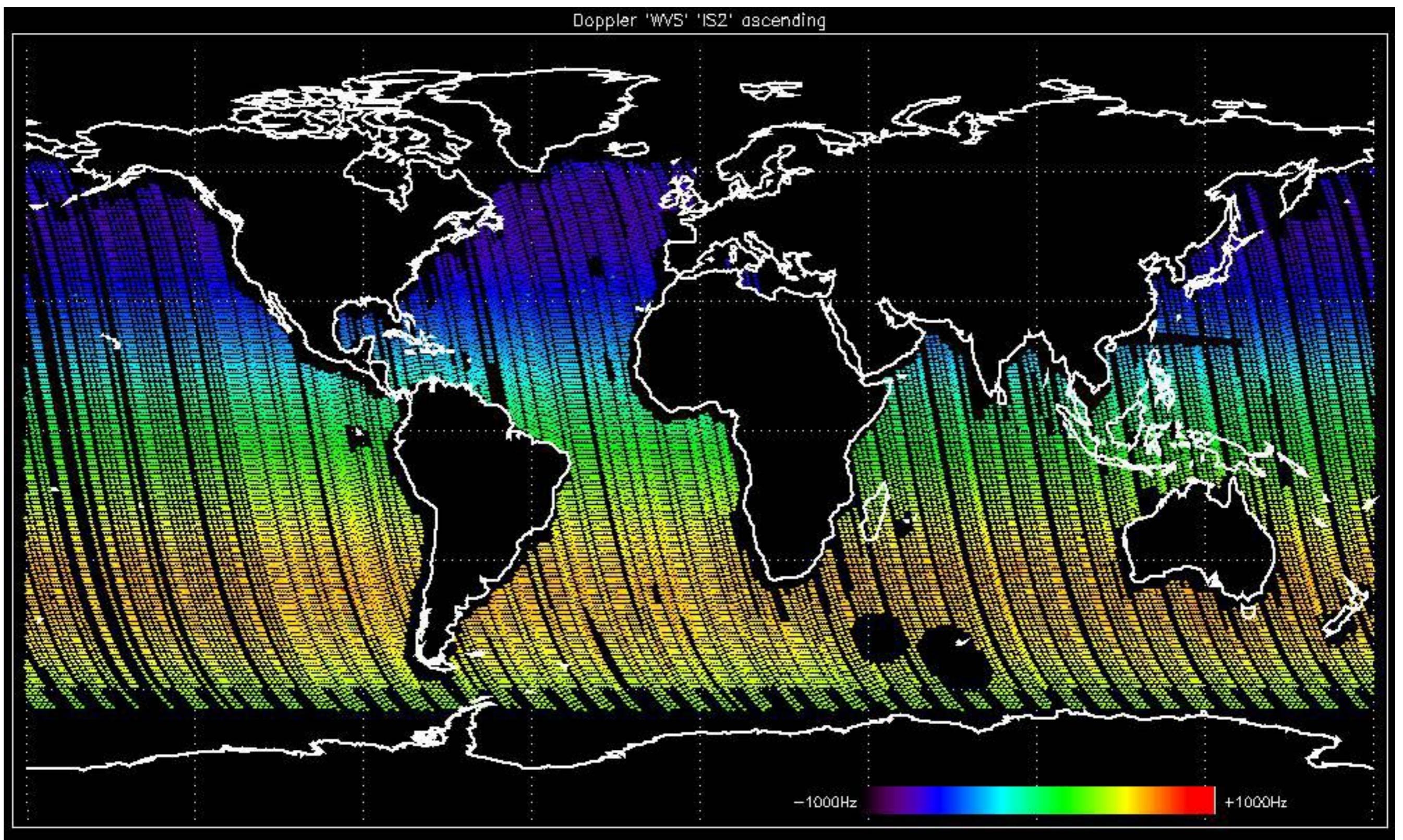
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

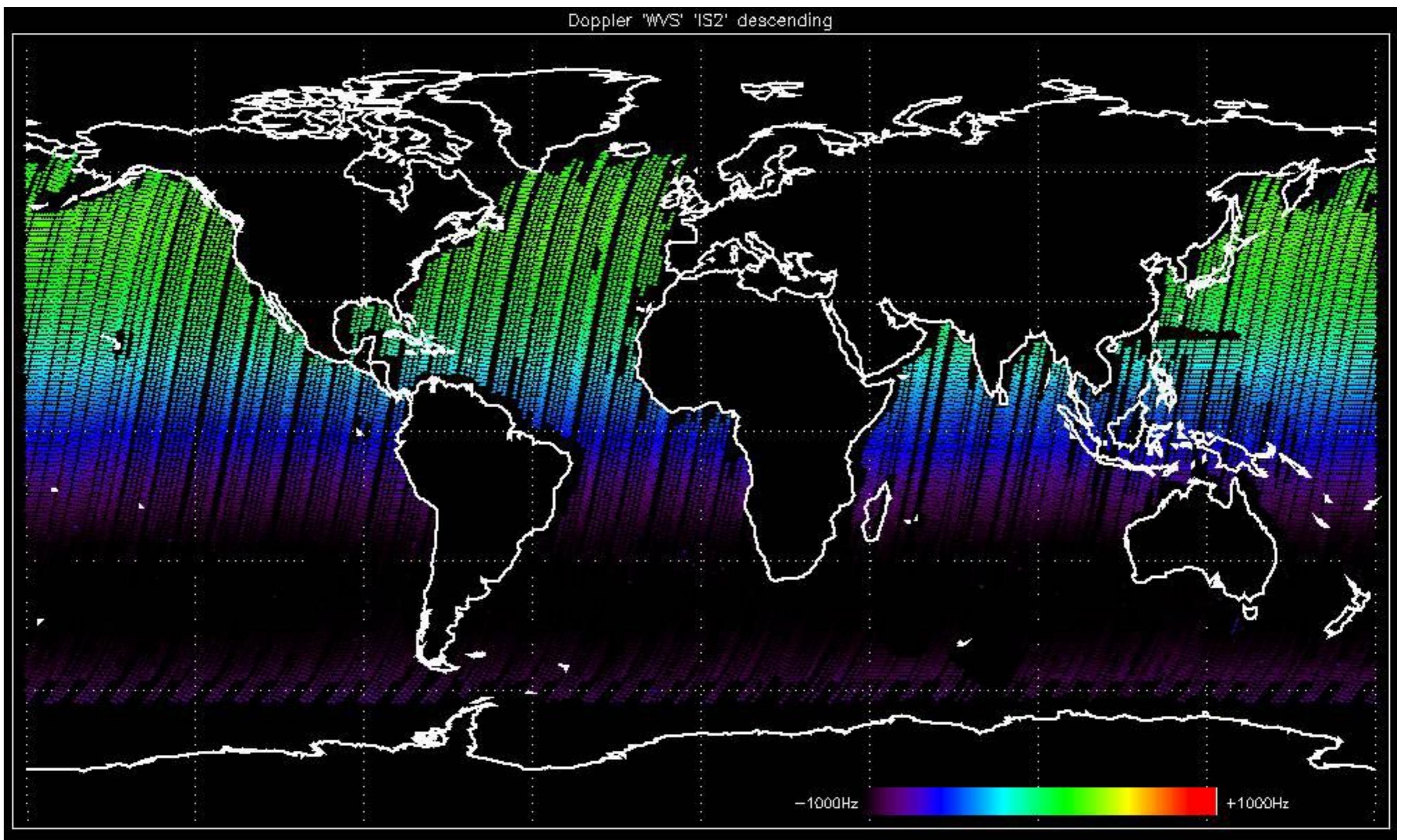


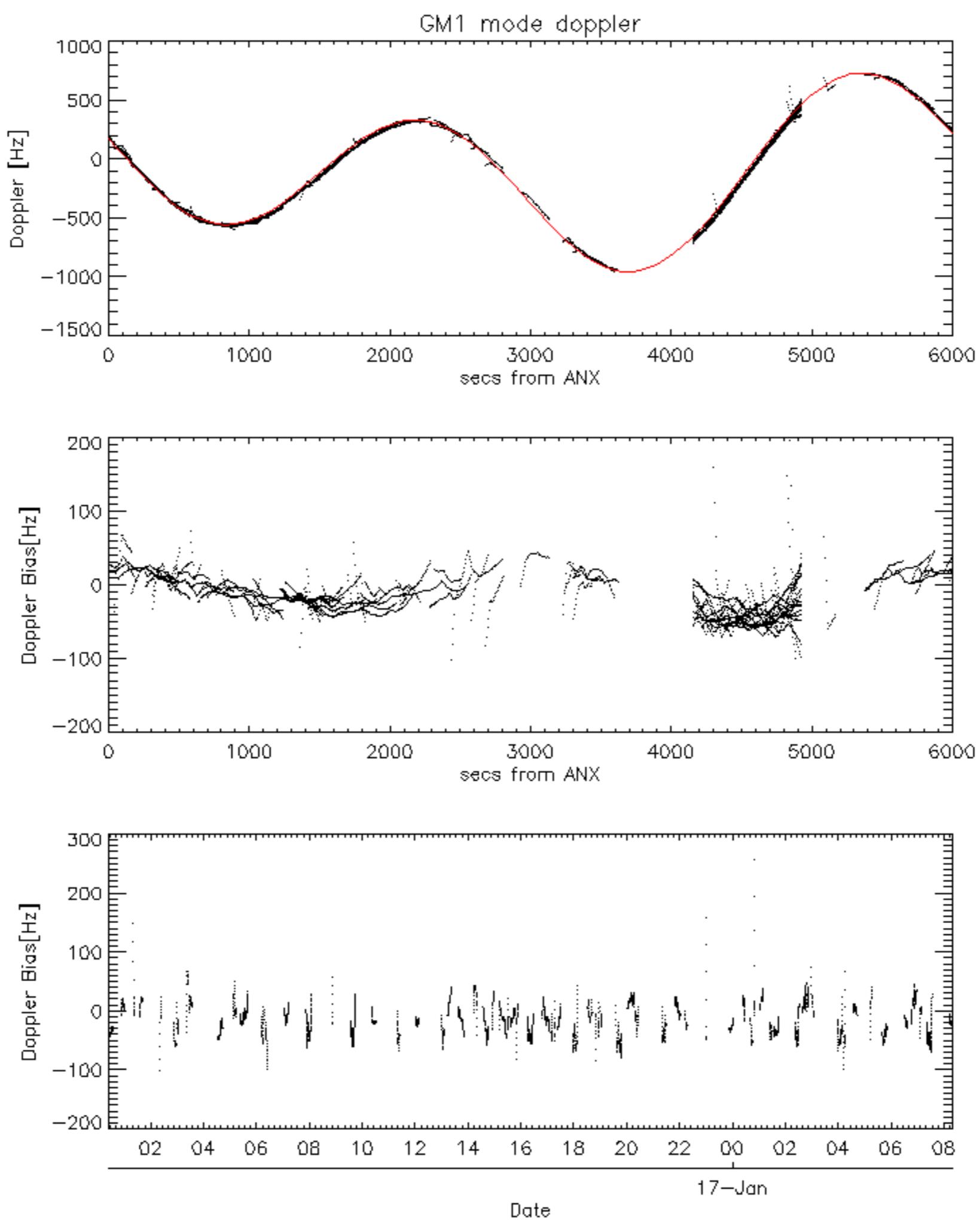


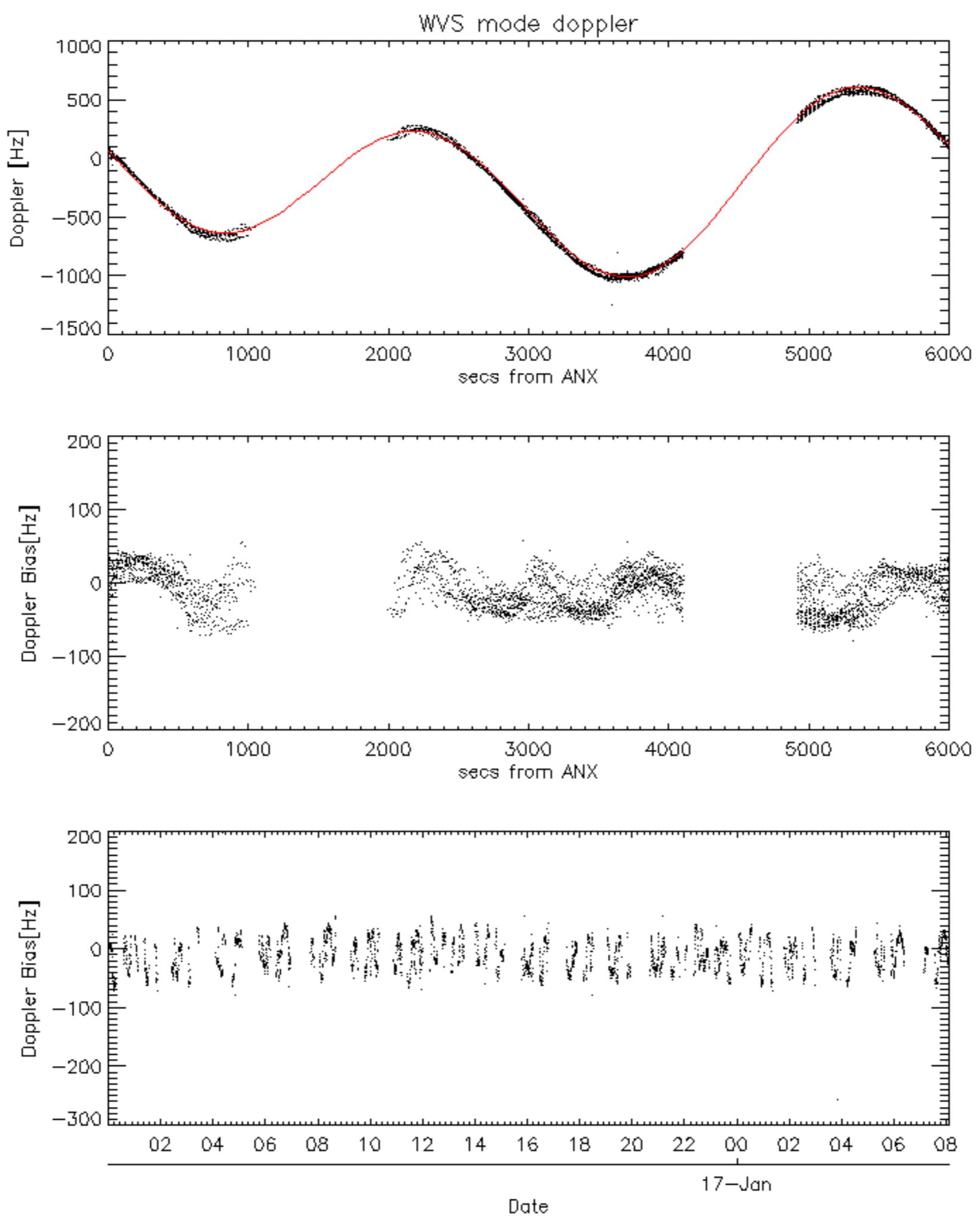


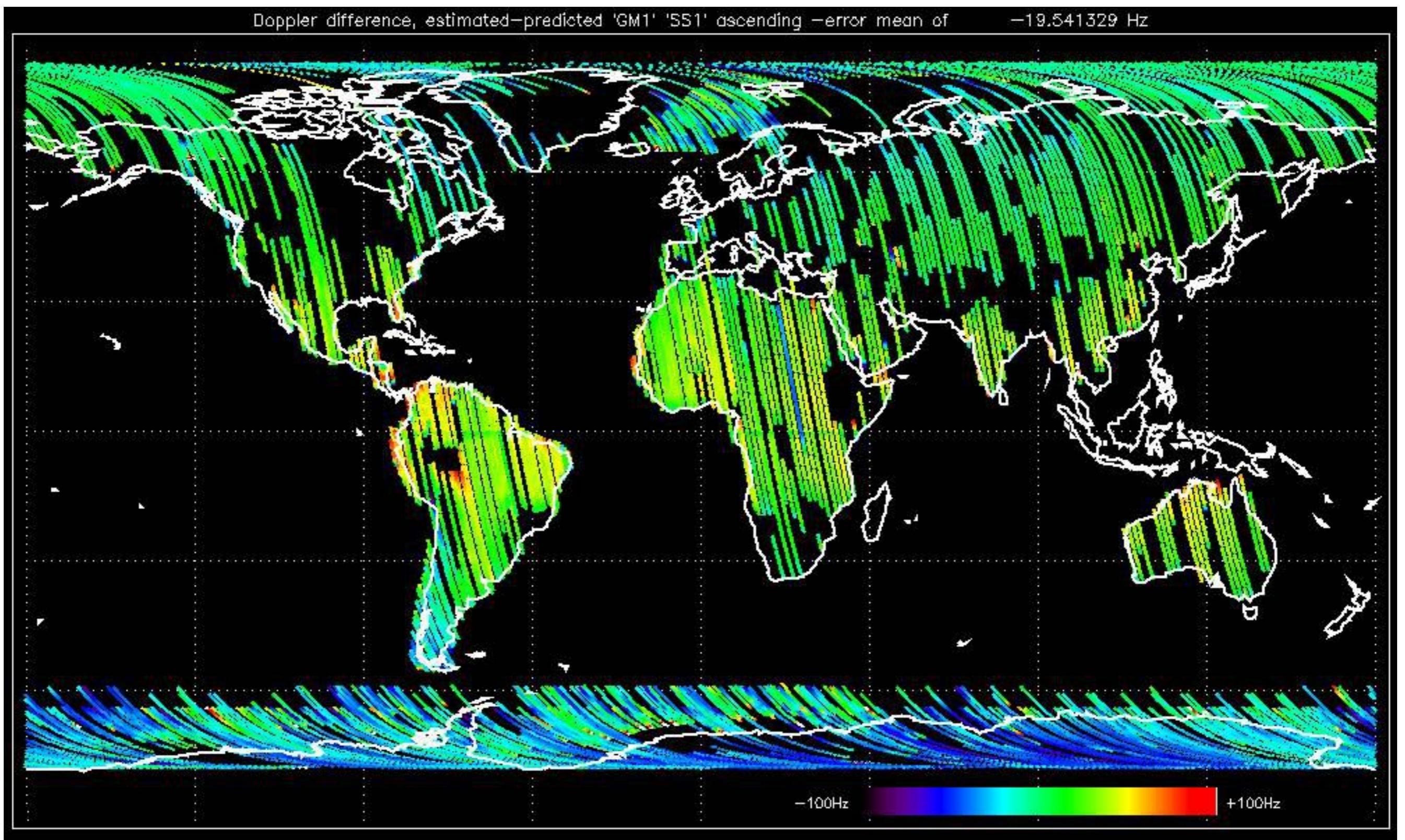


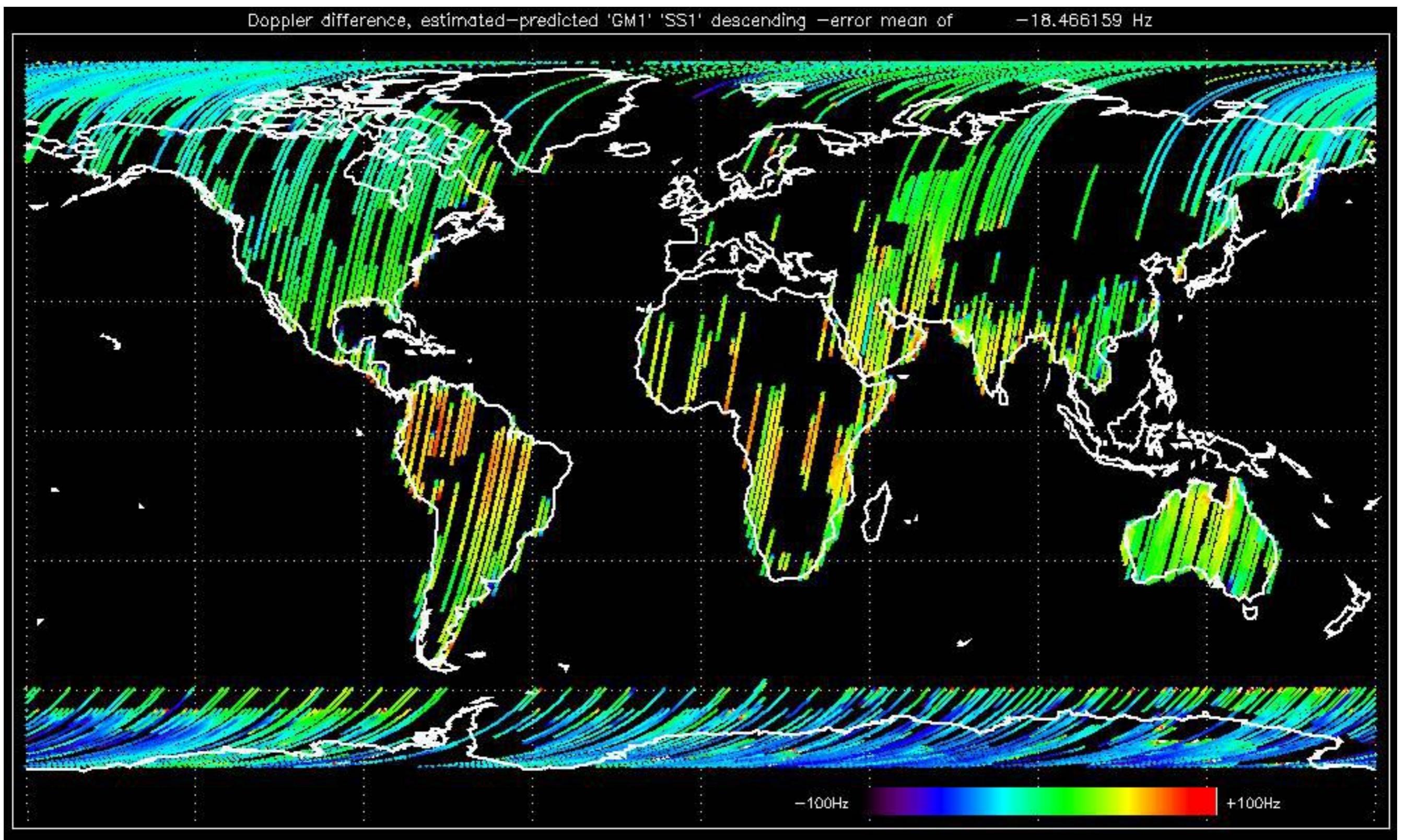


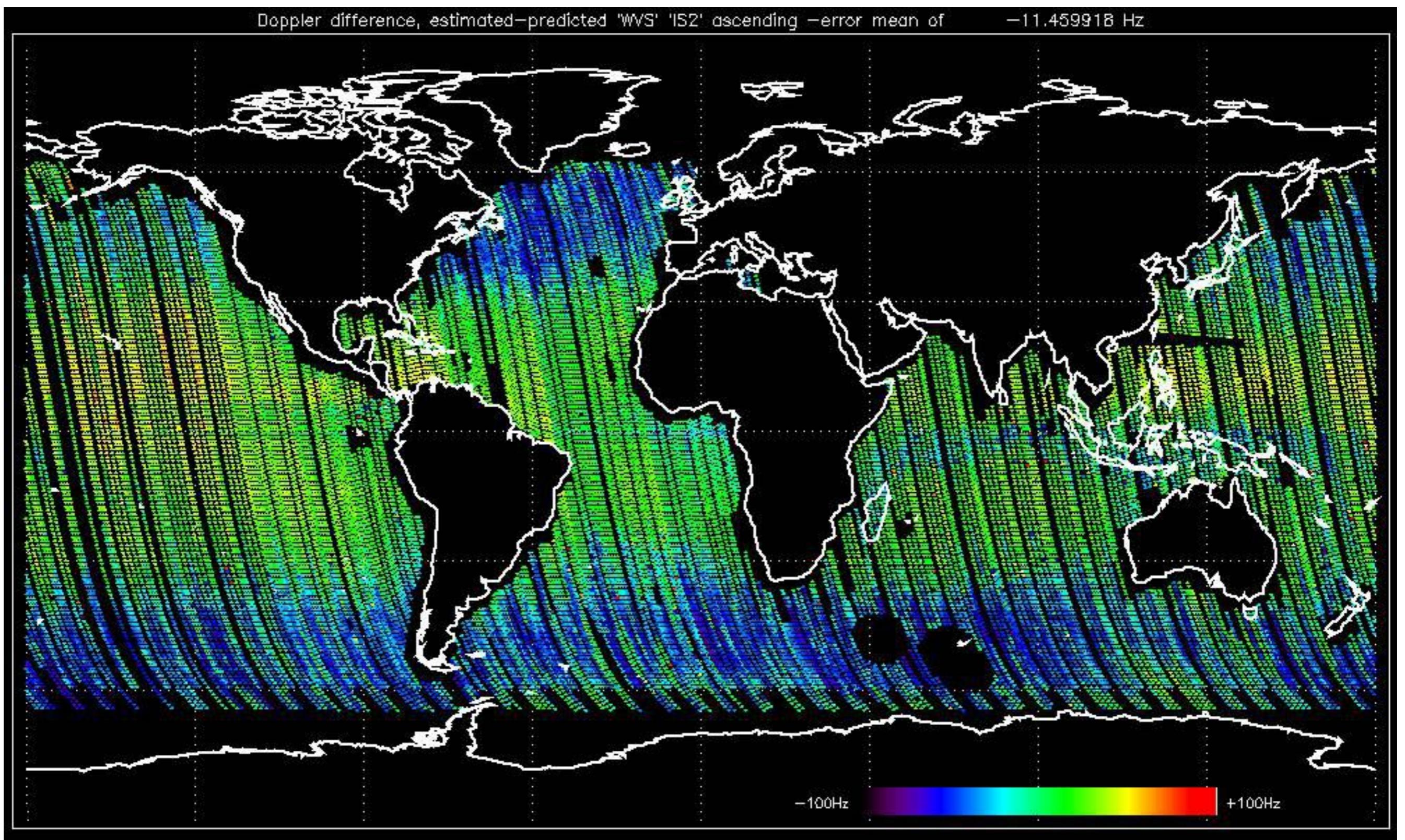


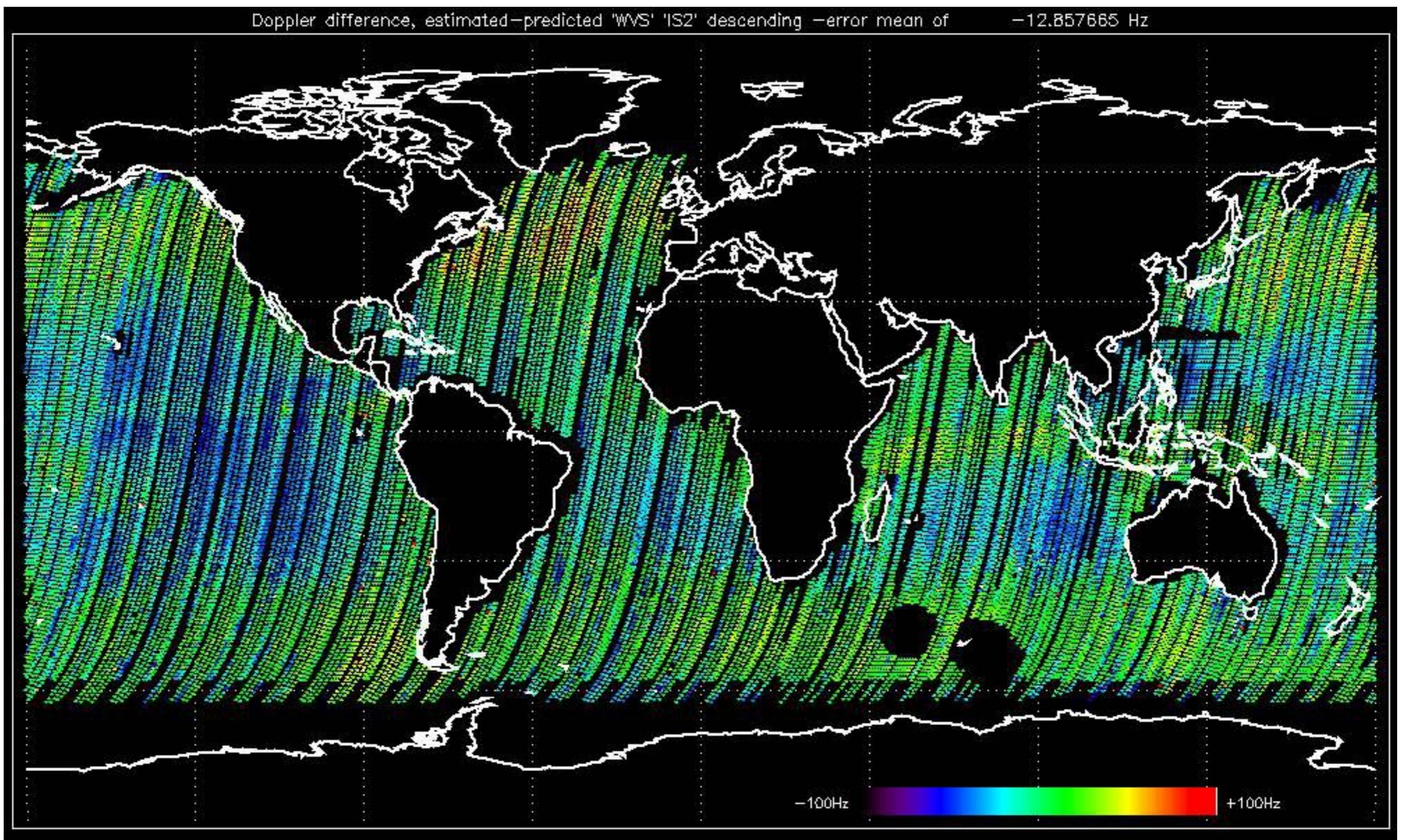










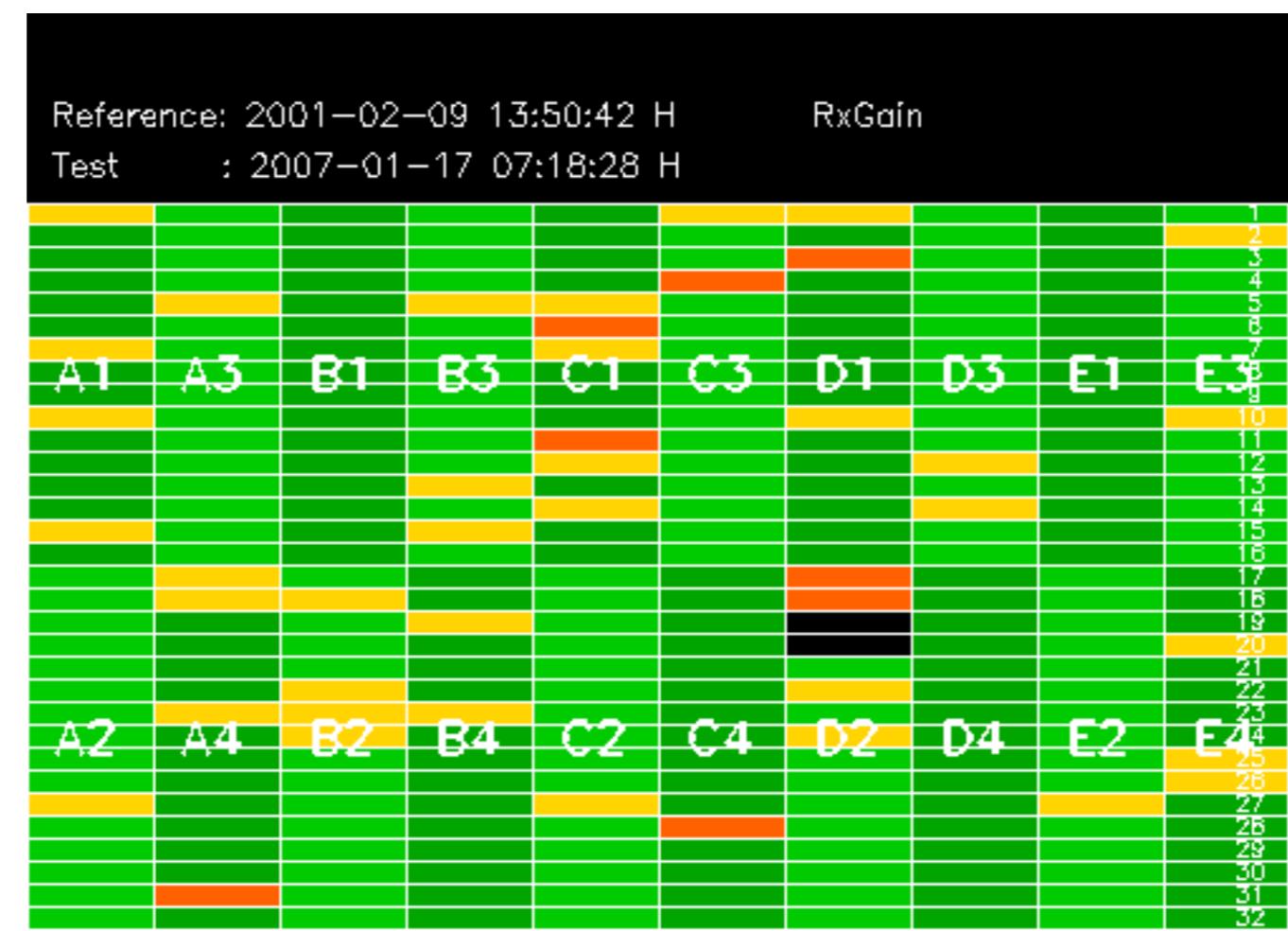


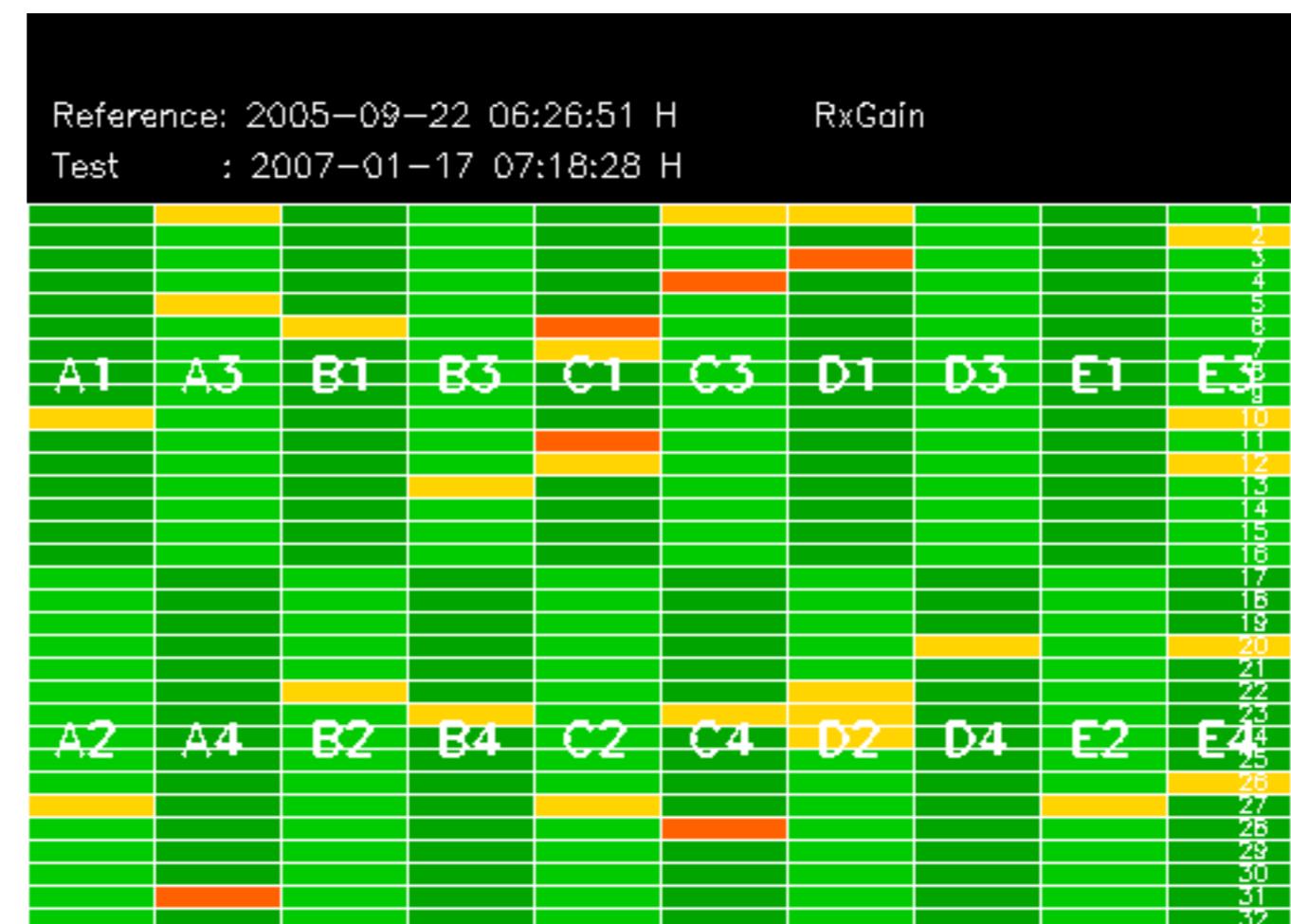
No anomalies observed on available MS products:

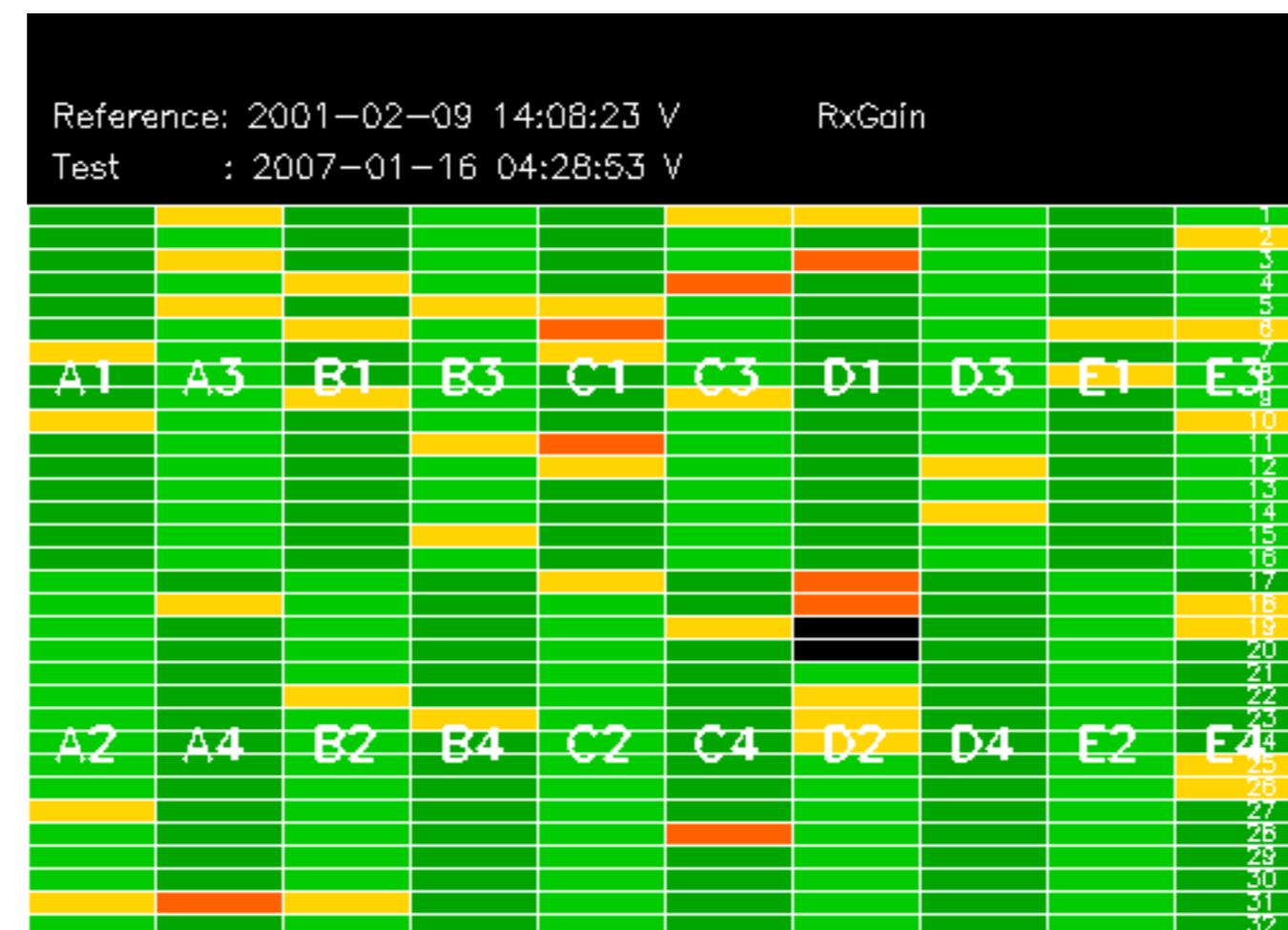


No anomalies observed.









Reference: 2005-09-23 05:55:14 V RxGain

Test : 2007-01-16 04:28:53 V

<img alt="A grid-based visualization showing signal levels across various channels (A1-E4) and time steps (1-32). The grid has 10 columns and 32 rows. Columns are labeled A1 through E4 at the top. Rows are numbered 1 through 32 on the right. Most cells are green, indicating normal signal levels. Some cells are yellow or red, indicating anomalies. Yellow cells are located at (A1, 1), (B1, 1), (C1, 1), (D1, 1), (E1, 1), (A2, 1), (B2, 1), (C2, 1), (D2, 1), (E2, 1), (A1, 2), (B1, 2), (C1, 2), (D1, 2), (E1, 2), (A2, 2), (B2, 2), (C2, 2), (D2, 2), (E2, 2), (A1, 3), (B1, 3), (C1, 3), (D1, 3), (E1, 3), (A2, 3), (B2, 3), (C2, 3), (D2, 3), (E2, 3), (A1, 4), (B1, 4), (C1, 4), (D1, 4), (E1, 4), (A2, 4), (B2, 4), (C2, 4), (D2, 4), (E2, 4), (A1, 5), (B1, 5), (C1, 5), (D1, 5), (E1, 5), (A2, 5), (B2, 5), (C2, 5), (D2, 5), (E2, 5), (A1, 6), (B1, 6), (C1, 6), (D1, 6), (E1, 6), (A2, 6), (B2, 6), (C2, 6), (D2, 6), (E2, 6), (A1, 7), (B1, 7), (C1, 7), (D1, 7), (E1, 7), (A2, 7), (B2, 7), (C2, 7), (D2, 7), (E2, 7), (A1, 8), (B1, 8), (C1, 8), (D1, 8), (E1, 8), (A2, 8), (B2, 8), (C2, 8), (D2, 8), (E2, 8), (A1, 9), (B1, 9), (C1, 9), (D1, 9), (E1, 9), (A2, 9), (B2, 9), (C2, 9), (D2, 9), (E2, 9), (A1, 10), (B1, 10), (C1, 10), (D1, 10), (E1, 10), (A2, 10), (B2, 10), (C2, 10), (D2, 10), (E2, 10), (A1, 11), (B1, 11), (C1, 11), (D1, 11), (E1, 11), (A2, 11), (B2, 11), (C2, 11), (D2, 11), (E2, 11), (A1, 12), (B1, 12), (C1, 12), (D1, 12), (E1, 12), (A2, 12), (B2, 12), (C2, 12), (D2, 12), (E2, 12), (A1, 13), (B1, 13), (C1, 13), (D1, 13), (E1, 13), (A2, 13), (B2, 13), (C2, 13), (D2, 13), (E2, 13), (A1, 14), (B1, 14), (C1, 14), (D1, 14), (E1, 14), (A2, 14), (B2, 14), (C2, 14), (D2, 14), (E2, 14), (A1, 15), (B1, 15), (C1, 15), (D1, 15), (E1, 15), (A2, 15), (B2, 15), (C2, 15), (D2, 15), (E2, 15), (A1, 16), (B1, 16), (C1, 16), (D1, 16), (E1, 16), (A2, 16), (B2, 16), (C2, 16), (D2, 16), (E2, 16), (A1, 17), (B1, 17), (C1, 17), (D1, 17), (E1, 17), (A2, 17), (B2, 17), (C2, 17), (D2, 17), (E2, 17), (A1, 18), (B1, 18), (C1, 18), (D1, 18), (E1, 18), (A2, 18), (B2, 18), (C2, 18), (D2, 18), (E2, 18), (A1, 19), (B1, 19), (C1, 19), (D1, 19), (E1, 19), (A2, 19), (B2, 19), (C2, 19), (D2, 19), (E2, 19), (A1, 20), (B1, 20), (C1, 20), (D1, 20), (E1, 20), (A2, 20), (B2, 20), (C2, 20), (D2, 20), (E2, 20), (A1, 21), (B1, 21), (C1, 21), (D1, 21), (E1, 21), (A2, 21), (B2, 21), (C2, 21), (D2, 21), (E2, 21), (A1, 22), (B1, 22), (C1, 22), (D1, 22), (E1, 22), (A2, 22), (B2, 22), (C2, 22), (D2, 22), (E2, 22), (A1, 23), (B1, 23), (C1, 23), (D1, 23), (E1, 23), (A2, 23), (B2, 23), (C2, 23), (D2, 23), (E2, 23), (A1, 24), (B1, 24), (C1, 24), (D1, 24), (E1, 24), (A2, 24), (B2, 24), (C2, 24), (D2, 24), (E2, 24), (A1, 25), (B1, 25), (C1, 25), (D1, 25), (E1, 25), (A2, 25), (B2, 25), (C2, 25), (D2, 25), (E2, 25), (A1, 26), (B1, 26), (C1, 26), (D1, 26), (E1, 26), (A2, 26), (B2, 26), (C2, 26), (D2, 26), (E2, 26), (A1, 27), (B1, 27), (C1, 27), (D1, 27), (E1, 27), (A2, 27), (B2, 27), (C2, 27), (D2, 27), (E2, 27), (A1, 28), (B1, 28), (C1, 28), (D1, 28), (E1, 28), (A2, 28), (B2, 28), (C2, 28), (D2, 28), (E2, 28), (A1, 29), (B1, 29), (C1, 29), (D1, 29), (E1, 29), (A2, 29), (B2, 29), (C2, 29), (D2, 29), (E2, 29), (A1, 30), (B1, 30), (C1, 30), (D1, 30), (E1, 30), (A2, 30), (B2, 30), (C2, 30), (D2, 30), (E2, 30), (A1, 31), (B1, 31), (C1, 31), (D1, 31), (E1, 31), (A2, 31), (B2, 31), (C2, 31), (D2, 31), (E2, 31), (A1, 32), (B1, 32), (C1, 32), (D1, 32), (E1, 32), (A2, 32), (B2, 32), (C2, 32), (D2, 32), (E2, 32)</div>

|                                  |         |
|----------------------------------|---------|
| Reference: 2001-02-09 13:50:42 H | RxPhase |
| Test : 2007-01-17 07:18:28 H     |         |
|                                  | 1       |
|                                  | 2       |
|                                  | 3       |
|                                  | 4       |
|                                  | 5       |
|                                  | 6       |
| A1                               | 7       |
| A3                               | 8       |
| B1                               | 9       |
| B3                               | 10      |
| C1                               | 11      |
| C3                               | 12      |
| D1                               | 13      |
| D3                               | 14      |
| E1                               | 15      |
| E3                               | 16      |
|                                  | 17      |
|                                  | 18      |
|                                  | 19      |
|                                  | 20      |
|                                  | 21      |
|                                  | 22      |
| A2                               | 23      |
| A4                               | 24      |
| B2                               | 25      |
| B4                               | 26      |
| C2                               | 27      |
| C4                               | 28      |
| D2                               | 29      |
| D4                               | 30      |
| E2                               | 31      |
| E4                               | 32      |

Reference: 2005-09-22 06:26:51 H RxPhase

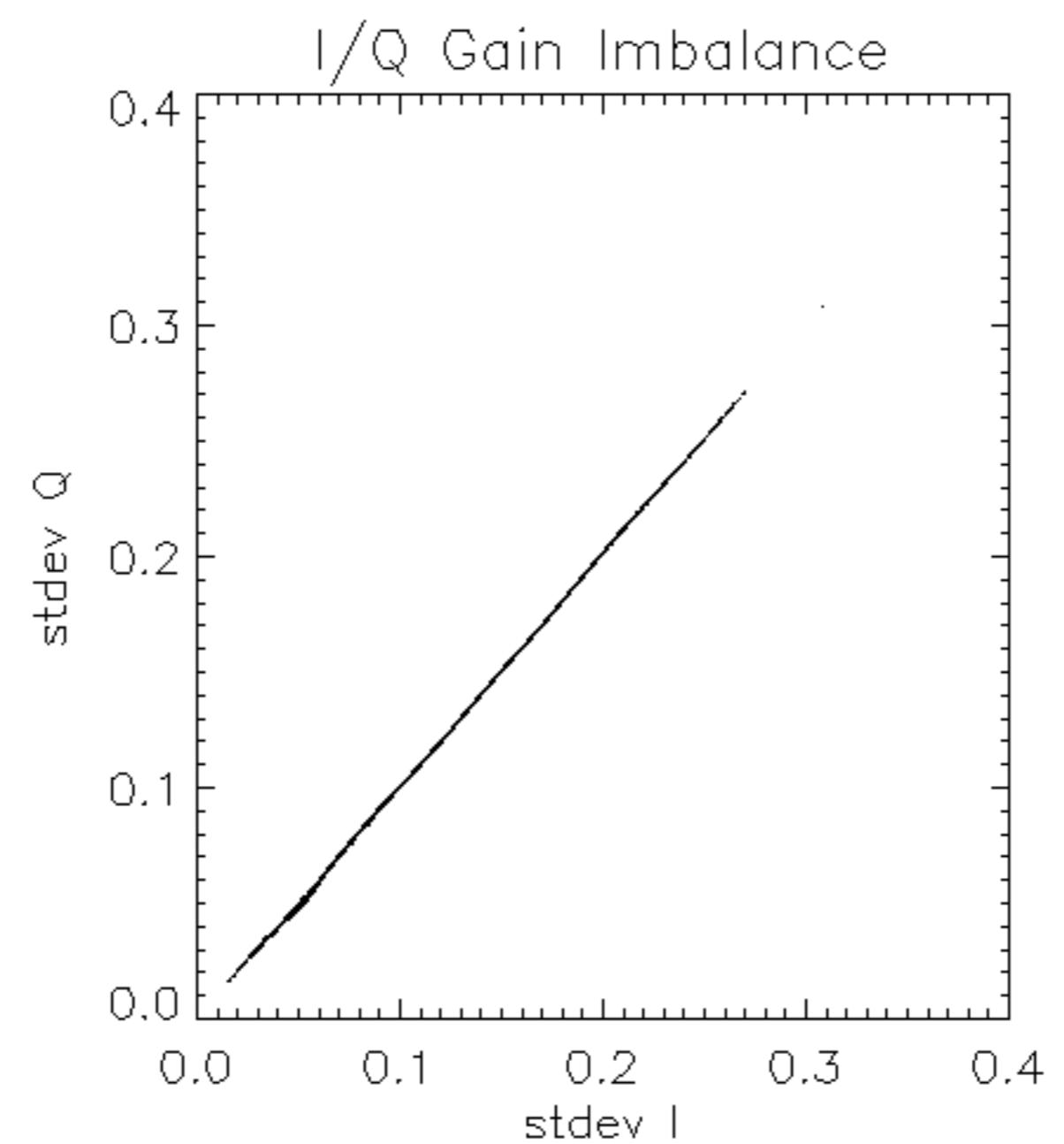
Test : 2007-01-17 07:18:28 H

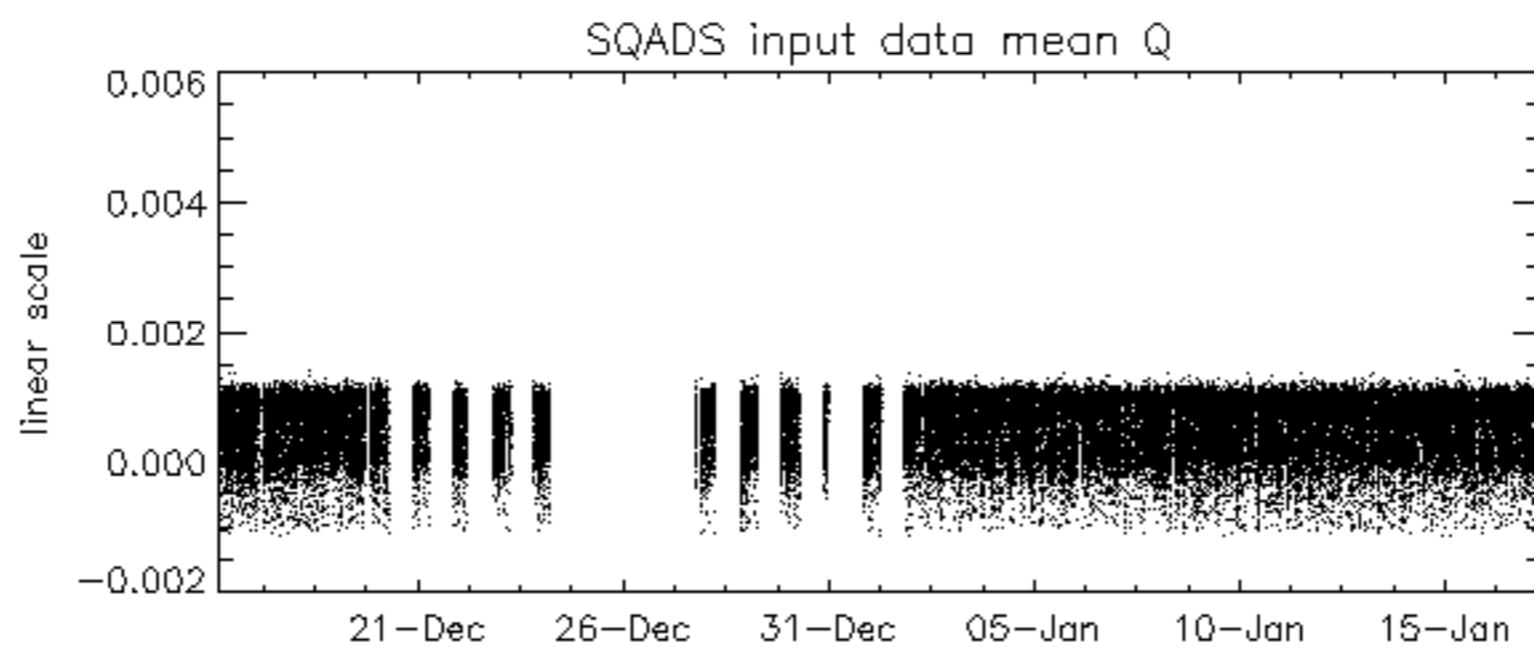
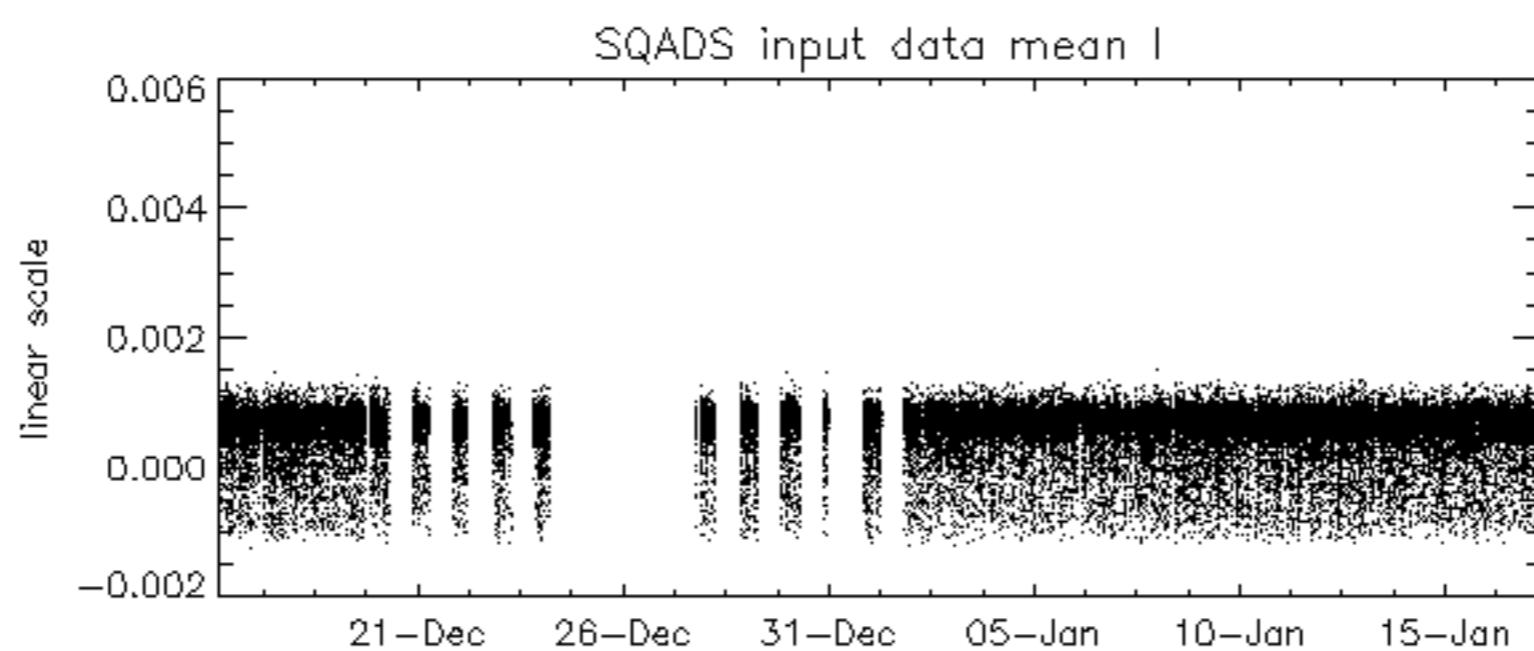
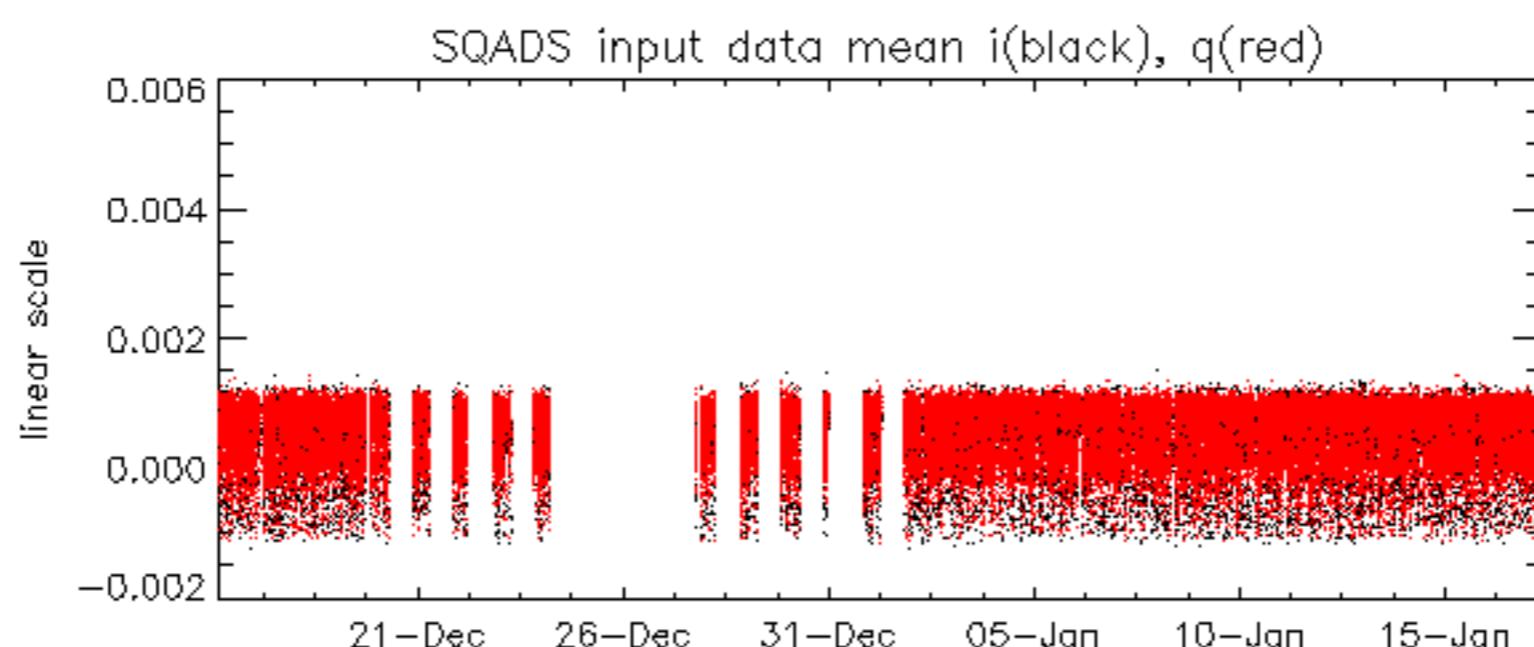
Reference: 2001-02-09 14:08:23 V RxPhase

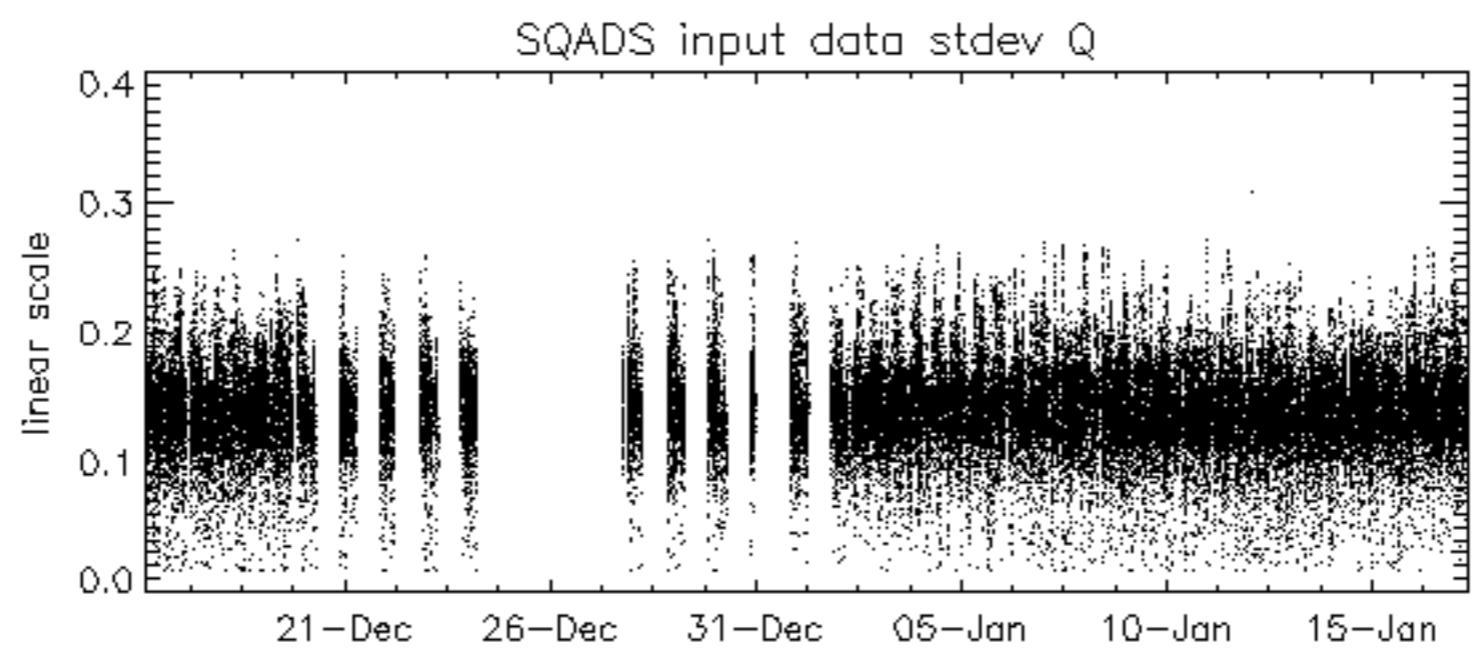
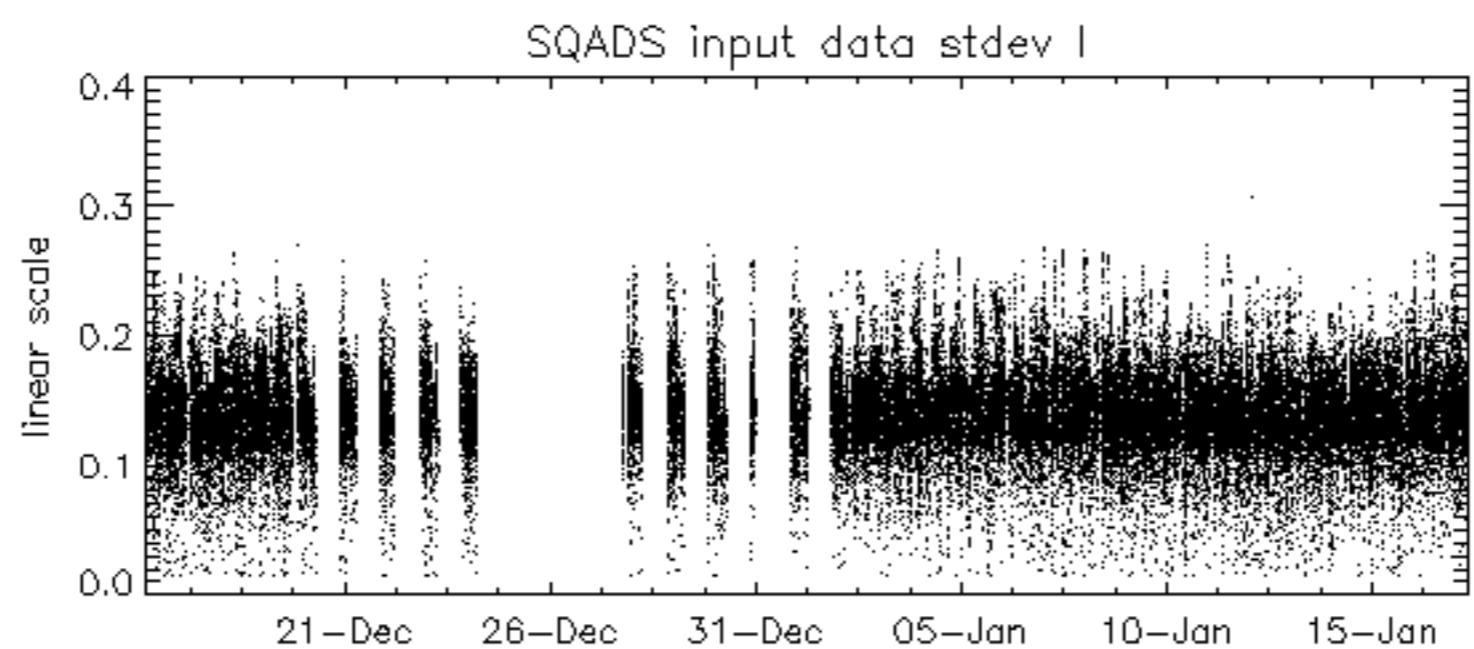
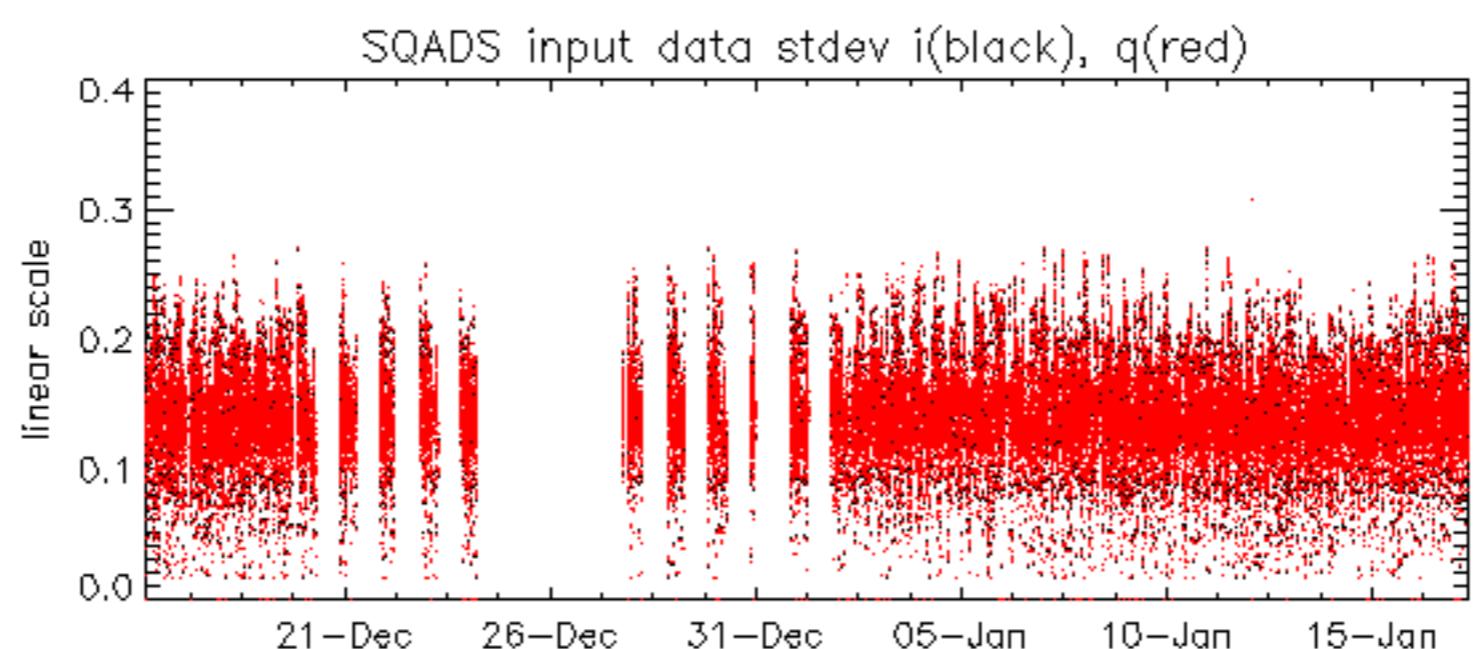
Test : 2007-01-16 04:28:53 V

Reference: 2005-09-23 05:55:14 V RxPhase

Test : 2007-01-16 04:28:53 V







Reference: 2001-02-09 13:50:42 H

TxGain

Test : 2007-01-17 07:18:28 H

|            |                         |        |
|------------|-------------------------|--------|
| Reference: | 2005-09-22 06:26:51 H   | TxGain |
| Test       | : 2007-01-17 07:18:28 H |        |
| A1         | A3                      | B1     |
| A2         | A4                      | B2     |
| C1         | C3                      | D1     |
| C2         | C4                      | D2     |
| D1         | D3                      | E1     |
| D2         | D4                      | E2     |
| E1         | E3                      |        |
|            |                         | 1      |
|            |                         | 2      |
|            |                         | 3      |
|            |                         | 4      |
|            |                         | 5      |
|            |                         | 6      |
|            |                         | 7      |
|            |                         | 8      |
|            |                         | 9      |
|            |                         | 10     |
|            |                         | 11     |
|            |                         | 12     |
|            |                         | 13     |
|            |                         | 14     |
|            |                         | 15     |
|            |                         | 16     |
|            |                         | 17     |
|            |                         | 18     |
|            |                         | 19     |
|            |                         | 20     |
|            |                         | 21     |
|            |                         | 22     |
|            |                         | 23     |
|            |                         | 24     |
|            |                         | 25     |
|            |                         | 26     |
|            |                         | 27     |
|            |                         | 28     |
|            |                         | 29     |
|            |                         | 30     |
|            |                         | 31     |
|            |                         | 32     |



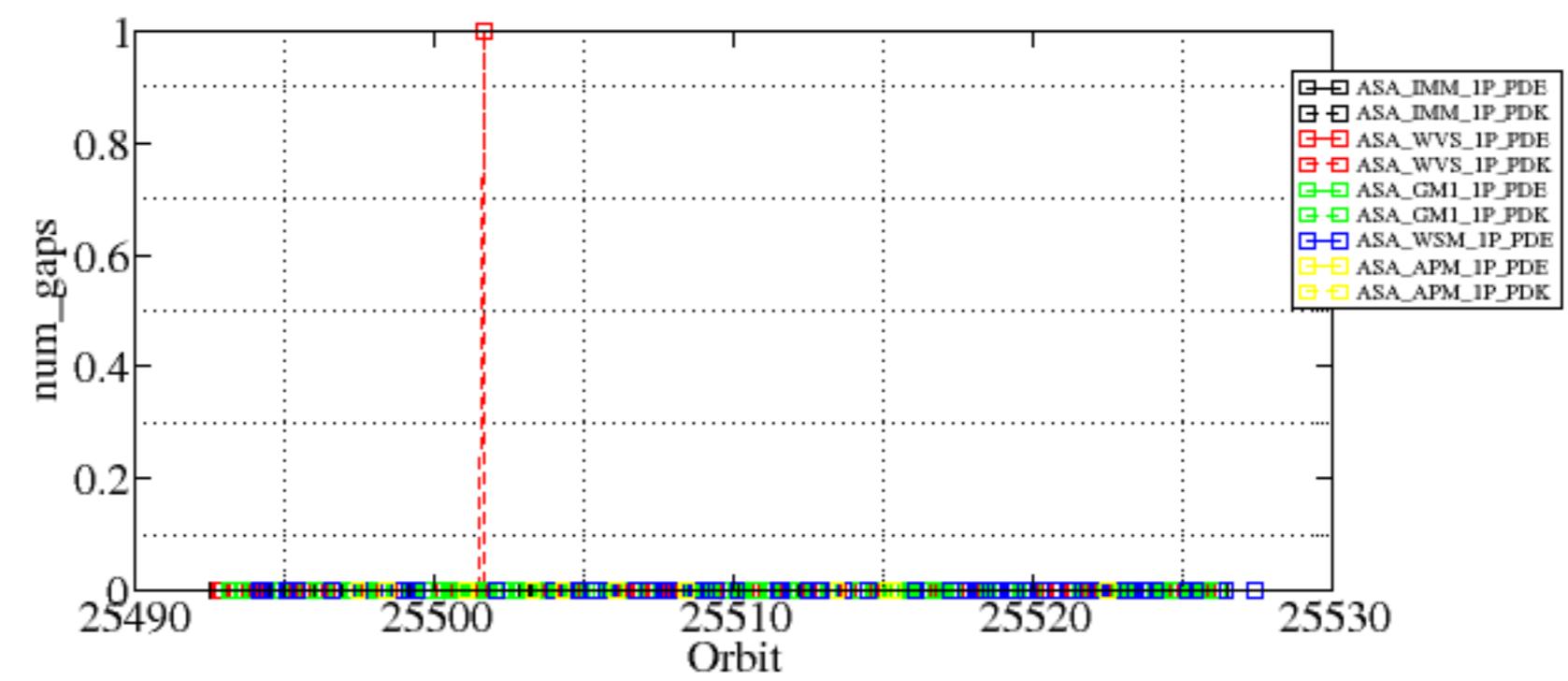
Reference: 2005-09-23 05:55:14 V

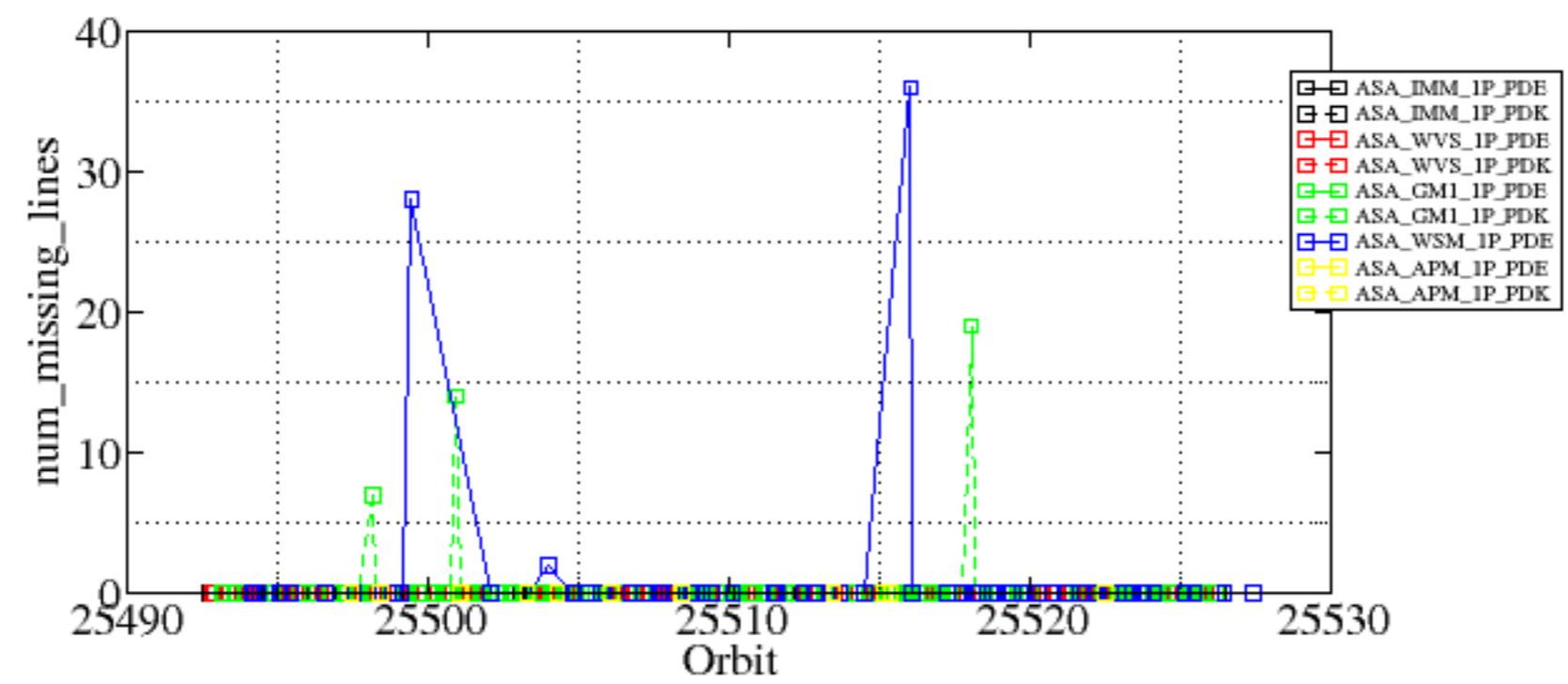
Test : 2007-01-16 04:28:53 V

Summary of analysis for the last 3 days 2007011[567]

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_WVS_1PNPDK20070115_150216_00000002054_00397_25501_7820.N1  | 1        | 0                 |
| ASA_WVS_1PNPDK20070115_150216_00000002054_00397_25501_7978.N1  | 1        | 0                 |
| ASA_GM1_1PNPDK20070115_091257_000003202054_00394_25498_7135.N1 | 0        | 7                 |
| ASA_GM1_1PNPDK20070115_134639_000003622054_00396_25500_7796.N1 | 0        | 14                |
| ASA_GM1_1PNPDK20070116_183117_000003082054_00414_25518_9835.N1 | 0        | 19                |
| ASA_WSM_1PNPDE20070115_112055_000000852054_00395_25499_8381.N1 | 0        | 28                |
| ASA_WSM_1PNPDE20070115_185945_000000912054_00400_25504_8532.N1 | 0        | 2                 |
| ASA_WSM_1PNPDE20070116_150734_000001762054_00412_25516_9712.N1 | 0        | 36                |



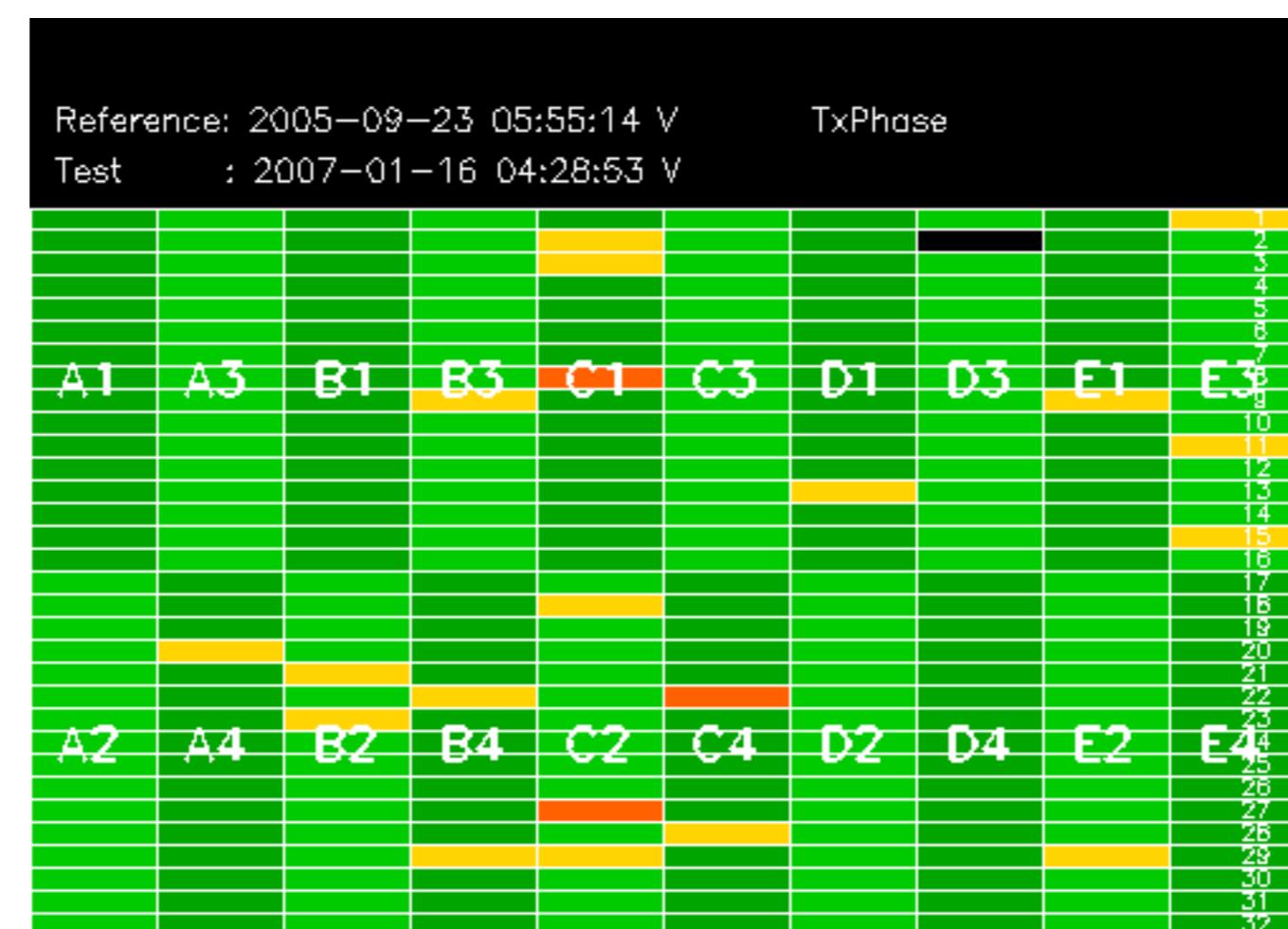


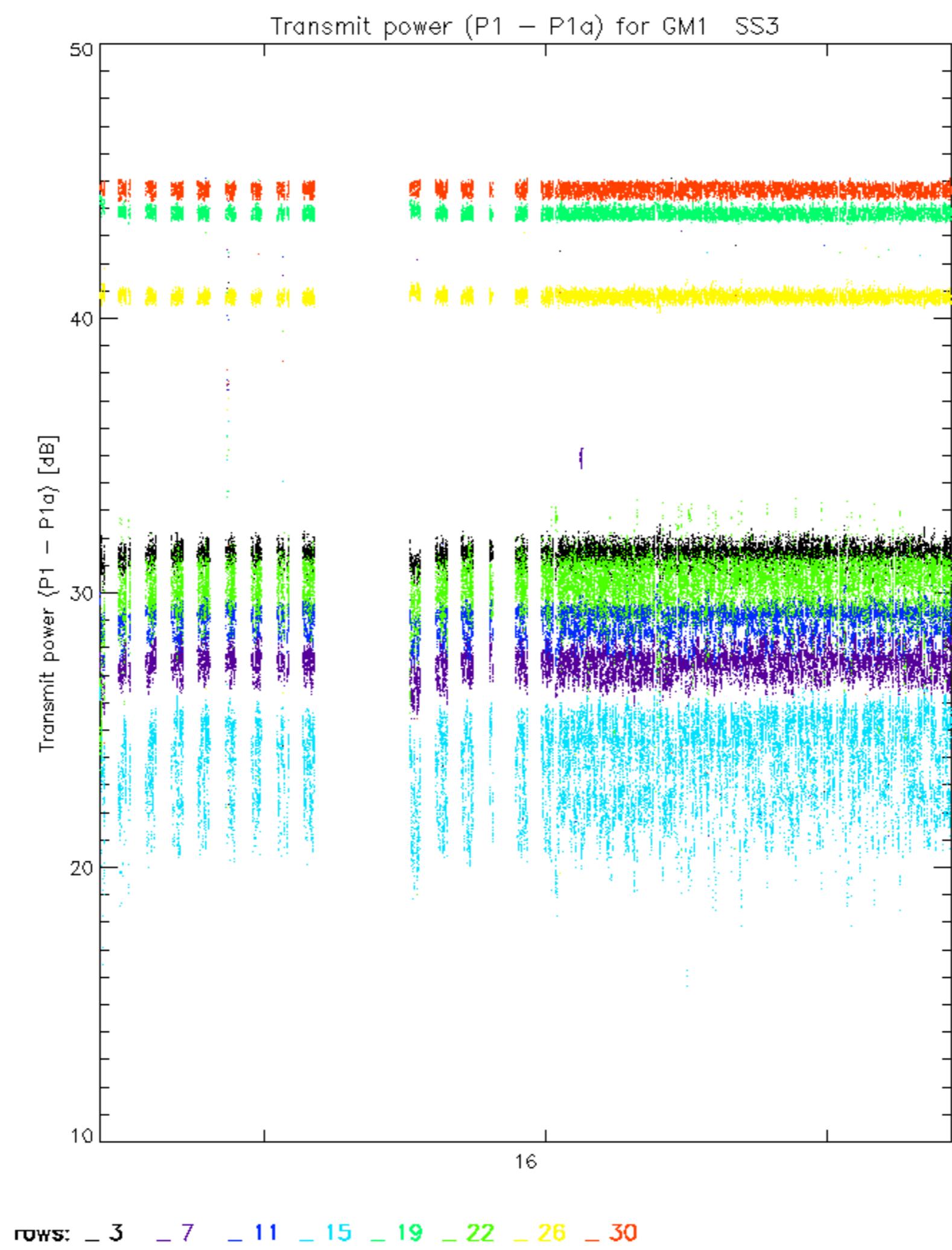
Reference: 2001-02-09 13:50:42 H TxPhase

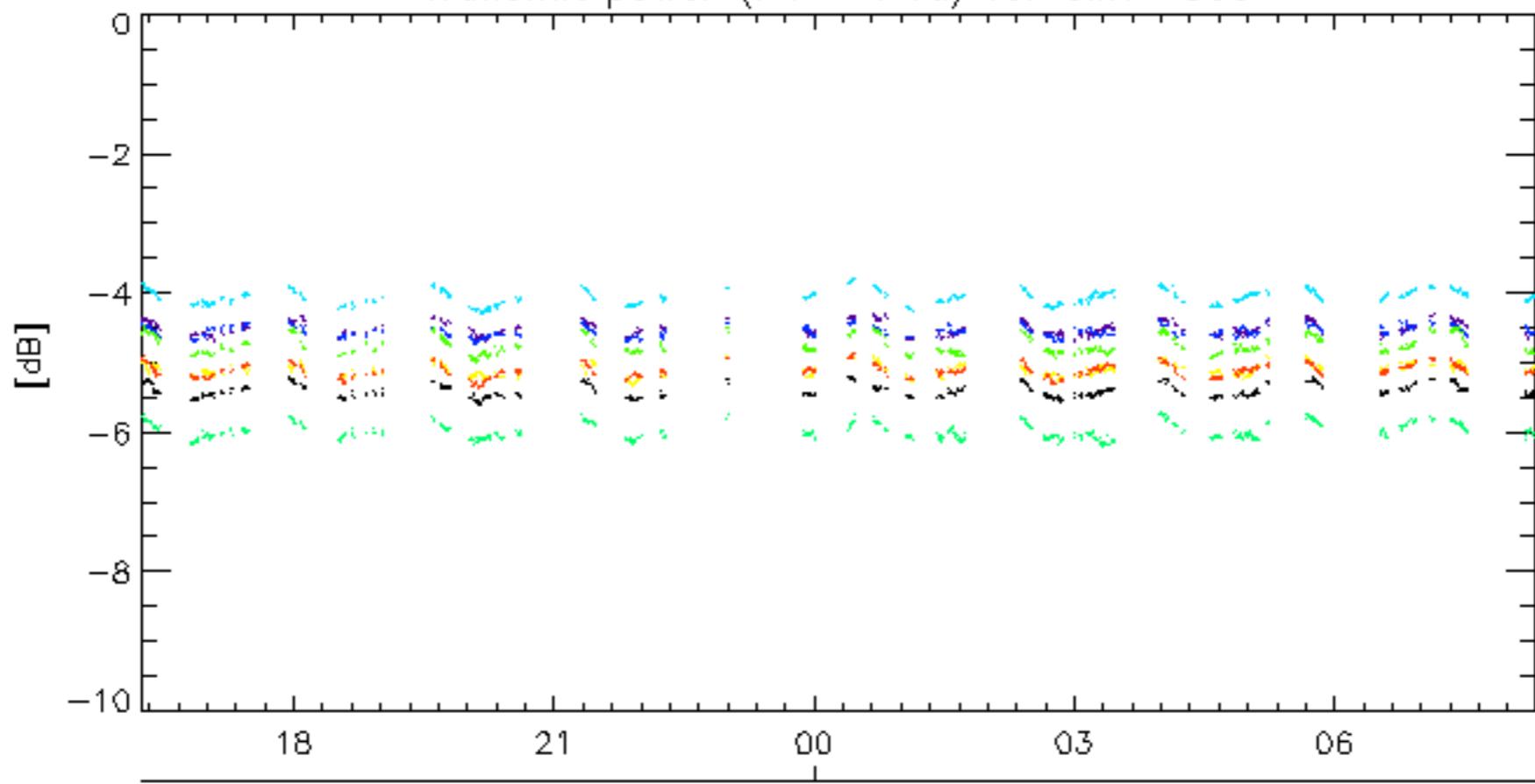
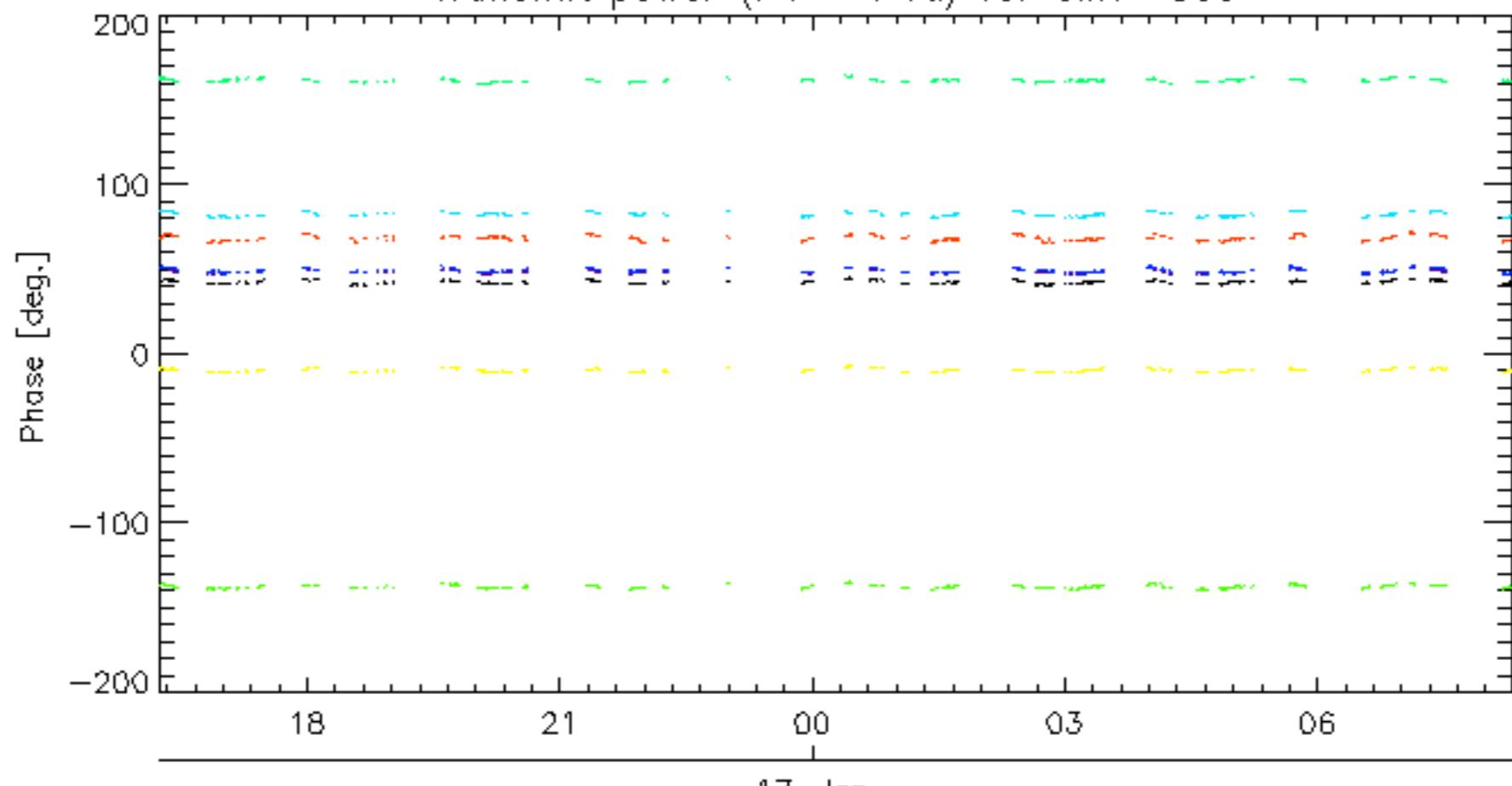
Test : 2007-01-17 07:18:28 H



|            |                     |                     |         |
|------------|---------------------|---------------------|---------|
| Reference: | 2001-02-09 14:08:23 | V                   | TxPhase |
| Test       | :                   | 2007-01-16 04:28:53 | V       |
|            |                     |                     |         |
| A1         | A3                  | B1                  | B3      |
| C1         | C3                  | D1                  | D3      |
| E1         | E3                  |                     |         |
|            |                     |                     |         |
| A2         | A4                  | B2                  | B4      |
| C2         | C4                  | D2                  | D4      |
| E2         | E4                  |                     |         |
|            |                     |                     |         |

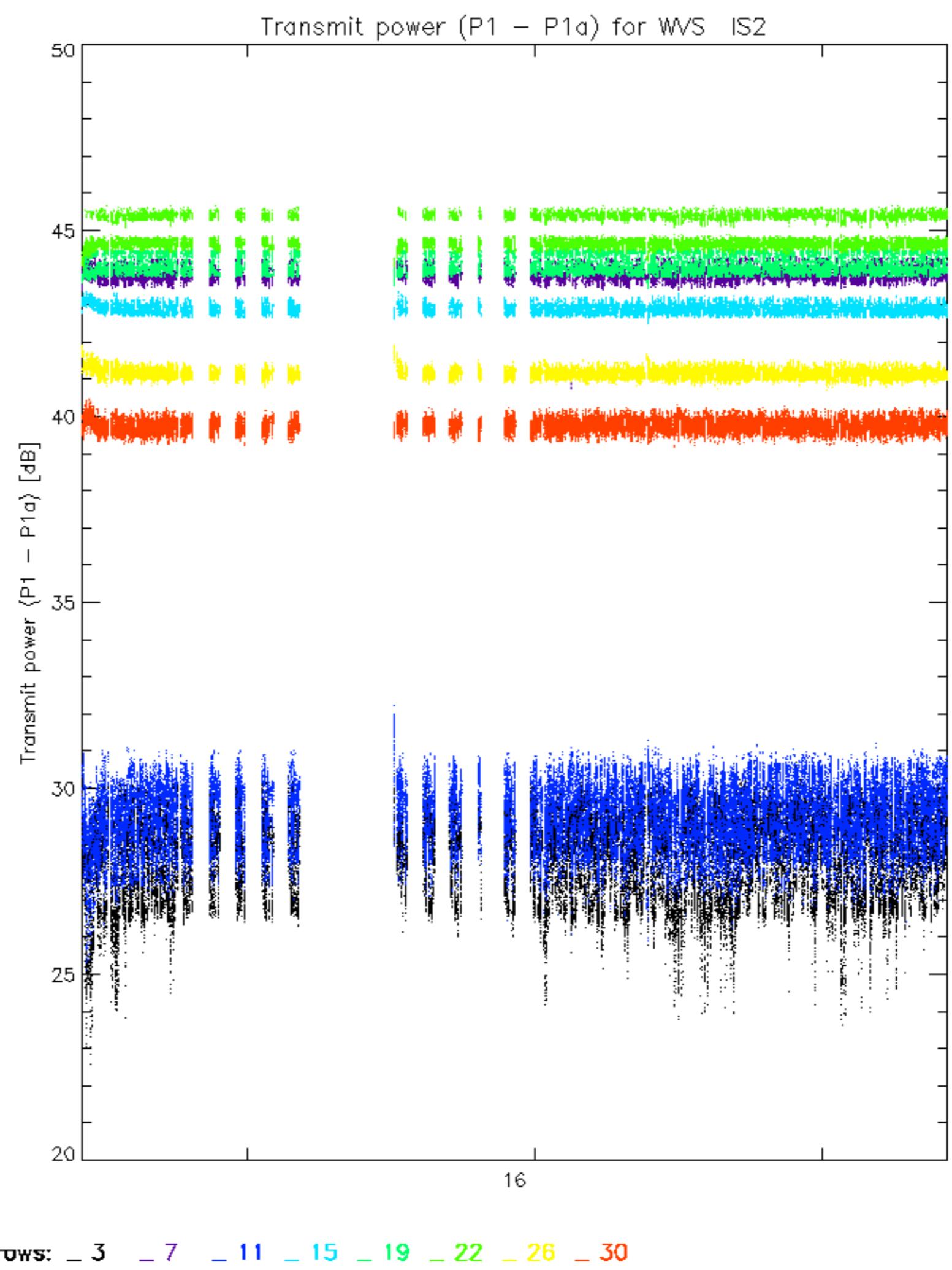


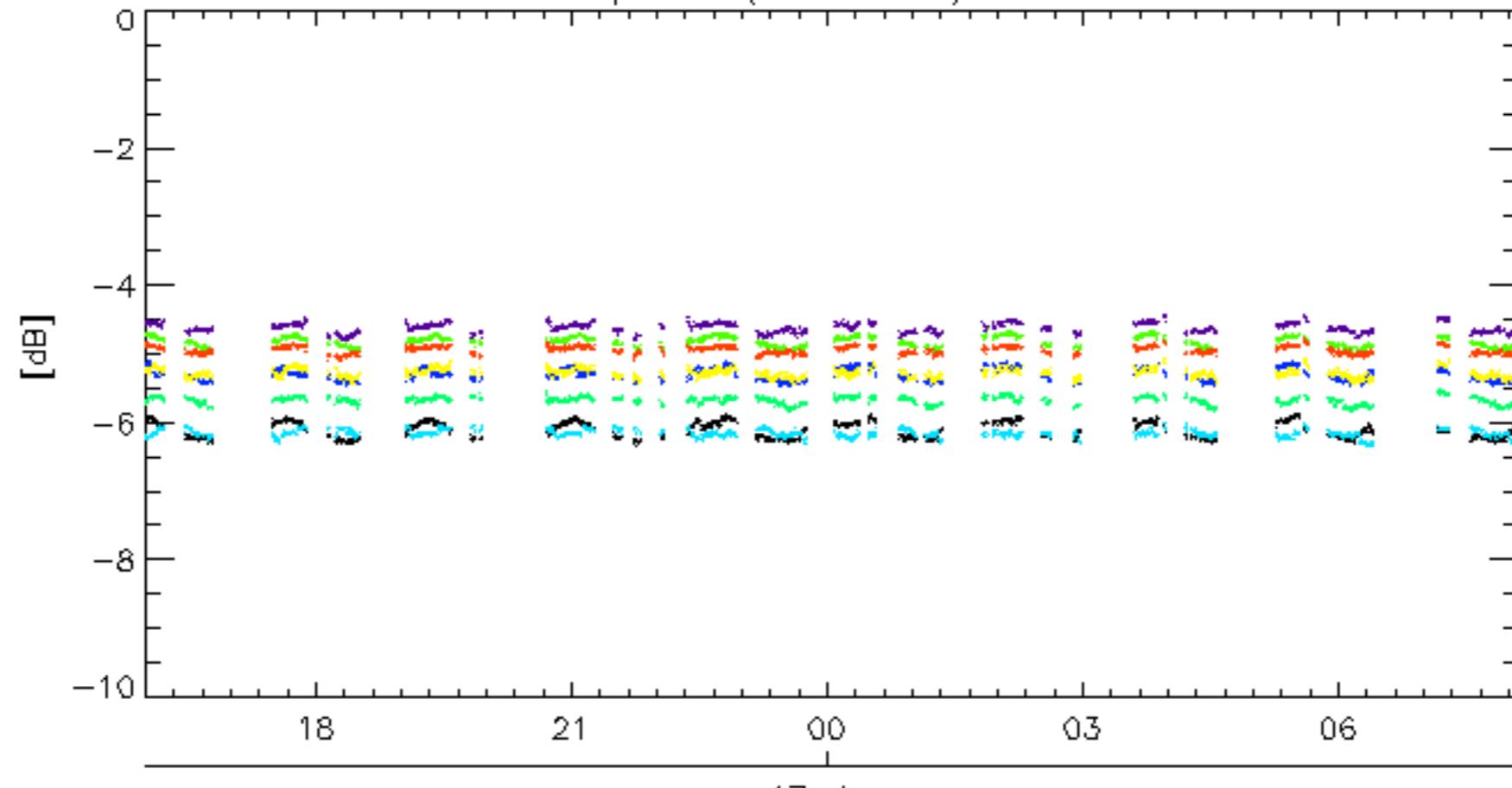
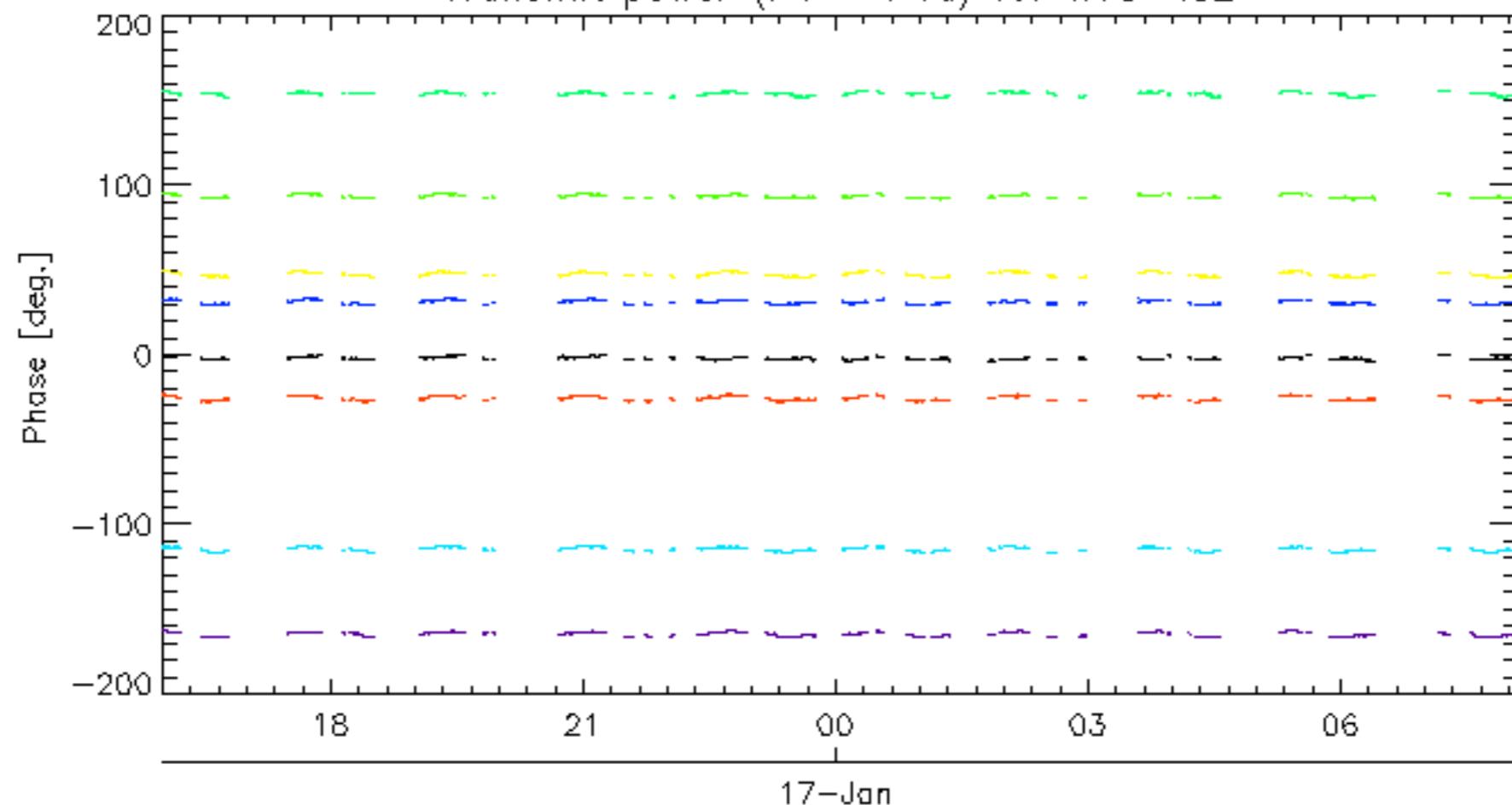


Transmit power ( $P_1 - P_{1a}$ ) for GM1 SS317-Jan  
Transmit power ( $P_1 - P_{1a}$ ) for GM1 SS3

17-Jan

rows: -3 -7 -11 -15 -19 -22 -26 -30



Transmit power ( $P_1 - P_{1a}$ ) for WVS IS217-Jan  
Transmit power ( $P_1 - P_{1a}$ ) for WVS IS2

17-Jan

rows: - 3 - 7 - 11 - 15 - 19 - 22 - 26 - 30

No unavailabilities during the reported period.

