

# PRELIMINARY REPORT OF 060125

last update on Wed Jan 25 16:48:59 GMT 2006

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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 2006-01-24 00:00:00 to 2006-01-25 16:48:59

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

|   |    |   |   |   |    |
|---|----|---|---|---|----|
| ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000 | 41 | 0 | 7 | 0 | 19 |
| ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000 | 41 | 0 | 7 | 0 | 19 |
| ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000 | 41 | 0 | 7 | 0 | 19 |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 41 | 0 | 7 | 0 | 19 |

| PDHS-E  |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| AUXILIARY FILE  | WVS | GM1 | IMM | APM | WSM |
| ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000 | 42  | 45  | 54  | 9   | 53  |
| ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000 | 42  | 45  | 54  | 9   | 53  |
| ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000 | 42  | 45  | 54  | 9   | 53  |
| ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000 | 42  | 45  | 54  | 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            | 20060125 073832 |
| H            | 20060124 081008 |

### 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    | -4.038532  | 0.007333   | 0.058534        |
| 7   | P1    | -3.000459  | 0.013803   | -0.024026       |
| 11  | P1    | -4.102742  | 0.022564   | -0.009385       |
| 15  | P1    | -6.065610  | 0.017009   | -0.000850       |
| 19  | P1    | -3.247263  | 0.005878   | -0.032442       |
| 22  | P1    | -4.487039  | 0.020093   | 0.003925        |
| 26  | P1    | -4.212924  | 0.012659   | 0.032455        |
| 30  | P1    | -5.773925  | 0.009817   | -0.017971       |
| 3   | P1    | -16.953123 | 0.248517   | 0.205581        |
| 7   | P1    | -16.602940 | 0.129912   | -0.144710       |
| 11  | P1    | -16.610003 | 0.312206   | -0.070876       |
| 15  | P1    | -13.249236 | 0.119010   | 0.085981        |
| 19  | P1    | -13.884770 | 0.075947   | -0.044312       |
| 22  | P1    | -15.923114 | 0.566261   | 0.102167        |
| 26  | P1    | -15.765930 | 0.260141   | 0.016587        |
| 30  | P1    | -16.614981 | 0.343581   | -0.024008       |

### P2 Cyclic statistics

| row | pulse | mean (dB)  | stdev (dB) | slope(dB/cycle) |
|-----|-------|------------|------------|-----------------|
| 3   | P2    | -21.623554 | 0.095312   | 0.115522        |
| 7   | P2    | -22.481028 | 0.097743   | 0.097069        |
| 11  | P2    | -16.312037 | 0.103535   | 0.095578        |
| 15  | P2    | -7.222635  | 0.103498   | 0.040652        |
| 19  | P2    | -9.180055  | 0.098624   | 0.029119        |
| 22  | P2    | -17.943241 | 0.095259   | -0.018338       |
| 26  | P2    | -16.225420 | 0.100513   | 0.005244        |
| 30  | P2    | -19.657923 | 0.084216   | 0.032851        |

### P3 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|-----|-------|-----------|------------|-----------------|
| 3   | P3    | -8.216693 | 0.007418   | 0.015457        |
| 7   | P3    | -8.216693 | 0.007418   | 0.015457        |
| 11  | P3    | -8.216693 | 0.007418   | 0.015457        |
| 15  | P3    | -8.216693 | 0.007418   | 0.015457        |
| 19  | P3    | -8.216693 | 0.007418   | 0.015457        |
| 22  | P3    | -8.216693 | 0.007418   | 0.015457        |
| 26  | P3    | -8.216693 | 0.007418   | 0.015457        |
| 30  | P3    | -8.216693 | 0.007418   | 0.015457        |

#### 4.2.2 - Evolution for GM1

| Evolution of cal pulses for GM1 |
|---------------------------------|
|                                 |

#### P1a Cyclic statistics

| row | pulse | mean (dB)  | stdev (dB) | slope(dB/cycle) |
|-----|-------|------------|------------|-----------------|
| 3   | P1    | -3.723823  | 0.008636   | -0.016006       |
| 7   | P1    | -2.752086  | 0.007646   | 0.047193        |
| 11  | P1    | -2.866767  | 0.011141   | 0.012088        |
| 15  | P1    | -3.456874  | 0.018556   | -0.047018       |
| 19  | P1    | -3.381137  | 0.013275   | 0.010965        |
| 22  | P1    | -5.122110  | 0.021561   | 0.002752        |
| 26  | P1    | -5.856829  | 0.015513   | -0.000751       |
| 30  | P1    | -5.250131  | 0.029918   | 0.024592        |
| 3   | P1    | -11.520056 | 0.033743   | -0.058285       |
| 7   | P1    | -9.923875  | 0.050110   | 0.055489        |
| 11  | P1    | -10.075897 | 0.051266   | -0.031192       |
| 15  | P1    | -10.619557 | 0.082098   | -0.041817       |
| 19  | P1    | -15.481421 | 0.063270   | 0.042390        |
| 22  | P1    | -20.659275 | 1.151832   | 0.326700        |
| 26  | P1    | -16.853682 | 0.326894   | 0.363473        |
| 30  | P1    | -18.145542 | 0.308229   | -0.006914       |

#### P1 Cyclic statistics

| row | pulse | mean (dB)  | stdev (dB) | slope(dB/cycle) |
|-----|-------|------------|------------|-----------------|
| 3   | P1    | -3.723823  | 0.008636   | -0.016006       |
| 7   | P1    | -2.752086  | 0.007646   | 0.047193        |
| 11  | P1    | -2.866767  | 0.011141   | 0.012088        |
| 15  | P1    | -3.456874  | 0.018556   | -0.047018       |
| 19  | P1    | -3.381137  | 0.013275   | 0.010965        |
| 22  | P1    | -5.122110  | 0.021561   | 0.002752        |
| 26  | P1    | -5.856829  | 0.015513   | -0.000751       |
| 30  | P1    | -5.250131  | 0.029918   | 0.024592        |
| 3   | P1    | -11.520056 | 0.033743   | -0.058285       |
| 7   | P1    | -9.923875  | 0.050110   | 0.055489        |
| 11  | P1    | -10.075897 | 0.051266   | -0.031192       |
| 15  | P1    | -10.619557 | 0.082098   | -0.041817       |
| 19  | P1    | -15.481421 | 0.063270   | 0.042390        |
| 22  | P1    | -20.659275 | 1.151832   | 0.326700        |
| 26  | P1    | -16.853682 | 0.326894   | 0.363473        |
| 30  | P1    | -18.145542 | 0.308229   | -0.006914       |

## P2 Cyclic statistics

| row | pulse | mean (dB)  | stdev (dB) | slope(dB/cycle) |
|-----|-------|------------|------------|-----------------|
| 3   | P2    | -17.446779 | 0.032100   | 0.211858        |
| 7   | P2    | -22.888781 | 0.058370   | 0.209499        |
| 11  | P2    | -11.447658 | 0.019702   | 0.141123        |
| 15  | P2    | -4.930046  | 0.023417   | 0.074471        |
| 19  | P2    | -6.927273  | 0.022069   | 0.067050        |
| 22  | P2    | -8.197783  | 0.022657   | 0.020835        |
| 26  | P2    | -23.983583 | 0.025206   | 0.073100        |
| 30  | P2    | -22.103275 | 0.017468   | 0.041389        |

## P3 Cyclic statistics

| row | pulse | mean (dB) | stdev (dB) | slope(dB/cycle) |
|-----|-------|-----------|------------|-----------------|
| 3   | P3    | -8.057743 | 0.002402   | 0.036276        |
| 7   | P3    | -8.057688 | 0.002407   | 0.037047        |
| 11  | P3    | -8.057795 | 0.002413   | 0.037150        |
| 15  | P3    | -8.057673 | 0.002419   | 0.036523        |
| 19  | P3    | -8.057868 | 0.002414   | 0.036555        |
| 22  | P3    | -8.057705 | 0.002405   | 0.036120        |
| 26  | P3    | -8.057632 | 0.002398   | 0.035987        |
| 30  | P3    | -8.057833 | 0.002413   | 0.036476        |

## 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  | 0.000558267 |
|         | stdev | 1.71359e-07 |
| MEAN Q  | mean  | 0.000519138 |
|         | stdev | 2.16167e-07 |



## 5.2 - Input stdev I/Q

| channel | stat  | DSS-B      |
|---------|-------|------------|
| STDEV I | mean  | 0.138944   |
|         | stdev | 0.00120728 |
| STDEV Q | mean  | 0.139303   |
|         | stdev | 0.00122679 |



## 5.3 - Gain imbalance I/Q



## 6 - Telemetry analysis

Summary of analysis for the last 3 days 2006012[345]

The assumptions is taken that the SQADS num\_gaps and num\_missing\_lines fields are reliable indicators of telemetry problems

| Filename   | num_gaps | num_missing_lines |
|--|----------|-------------------|
| ASA_IMM_1PNPDE20060123_004758_000002002044_00288_20382_0815.N1 | 1        | 0                 |
| ASA_IMM_1PNPDE20060123_155721_000002312044_00298_20392_0902.N1 | 1        | 0                 |
| ASA_WSM_1PNPDE20060123_160304_000001282044_00298_20392_2090.N1 | 0        | 2                 |

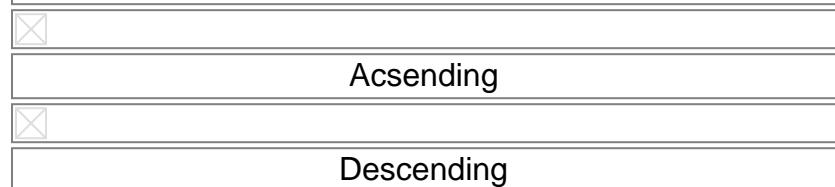


## 7 - Doppler Analysis

Preliminary report. The data is not yet controled

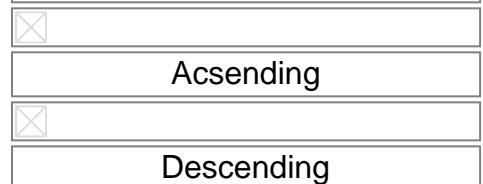
## 7.1 - Unbiased Doppler Error for WVS

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



## 7.2 - Absolute Doppler for WVS

## **Evolution of Absolute Doppler**



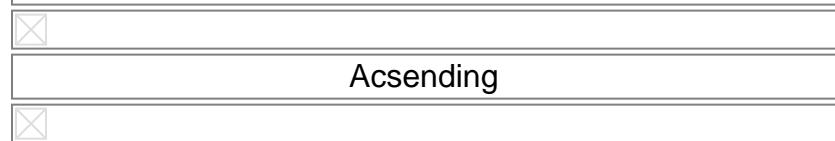
### 7.3 - Doppler evolution versus ANX for WVS

## Evolution Doppler error versus ANX



## 7.4 - Unbiased Doppler Error for GM1

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



Descending

## 7.5 - Absolute Doppler for GM1

**Evolution of Absolute Doppler**



Acsending

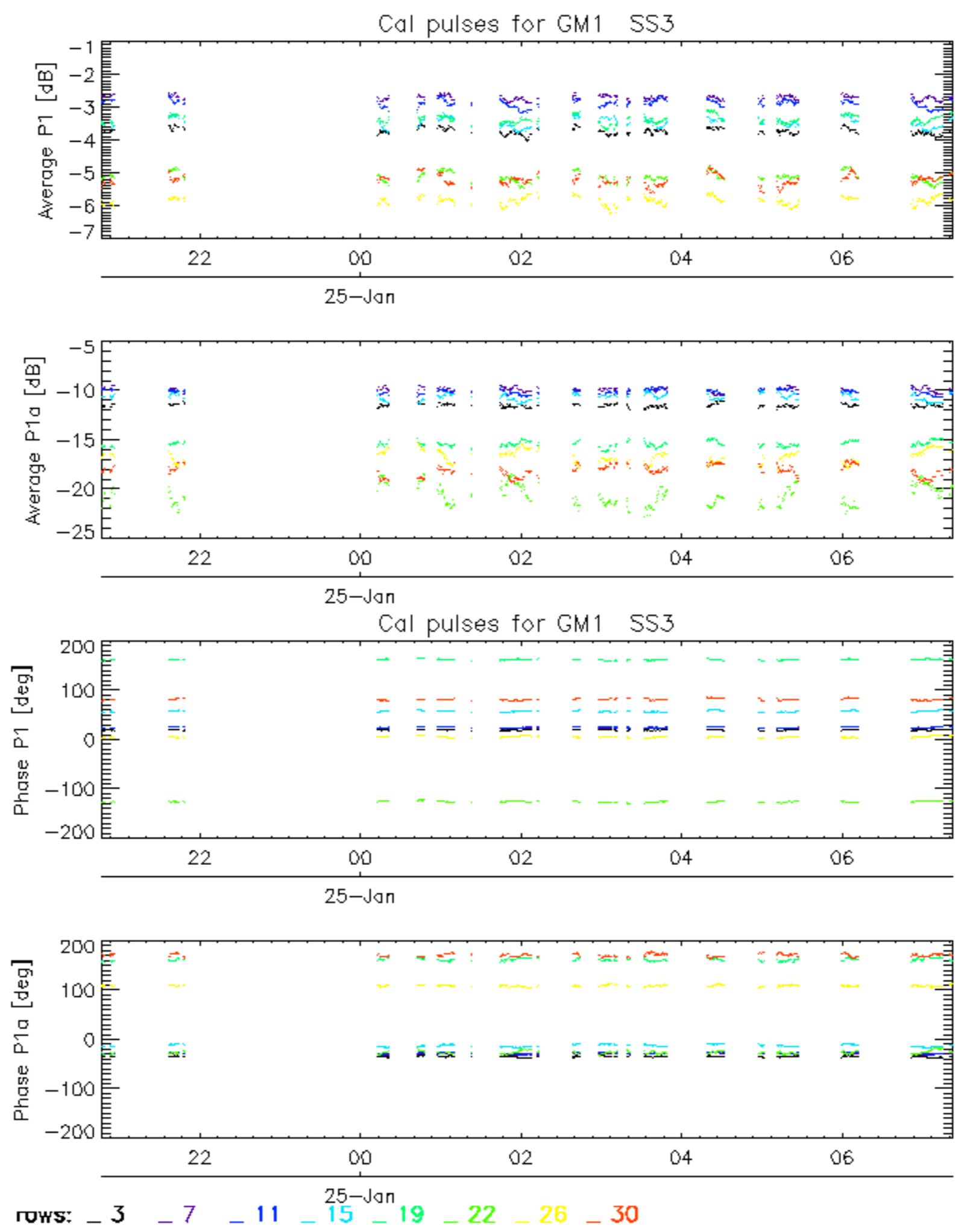


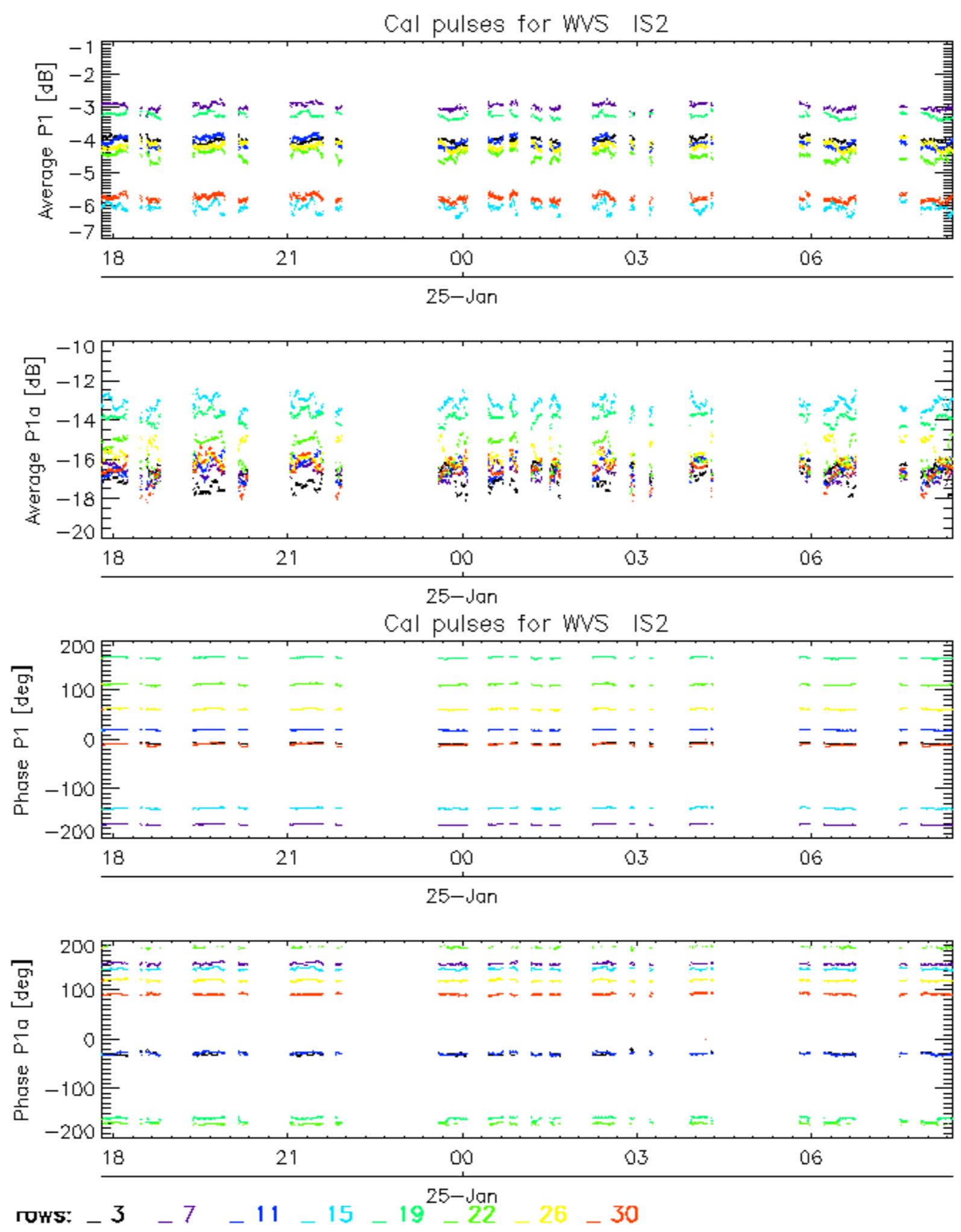
Descending

## 7.6 - Doppler evolution versus ANX for GM1

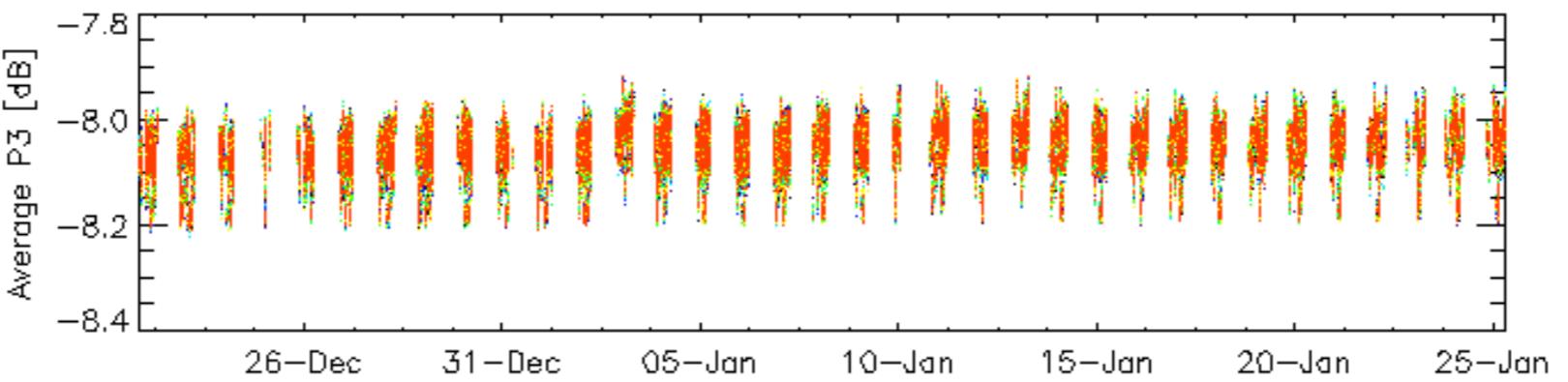
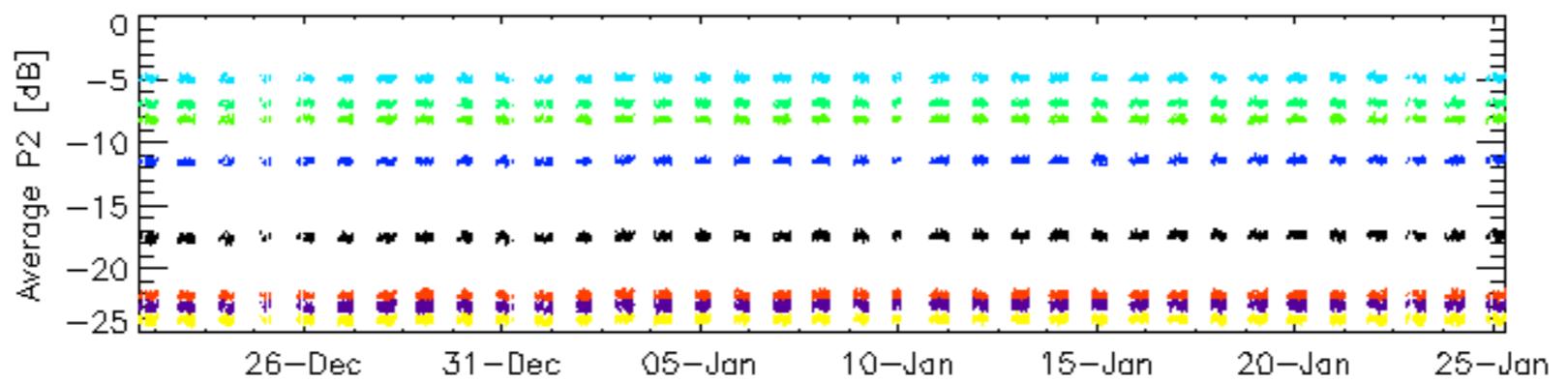
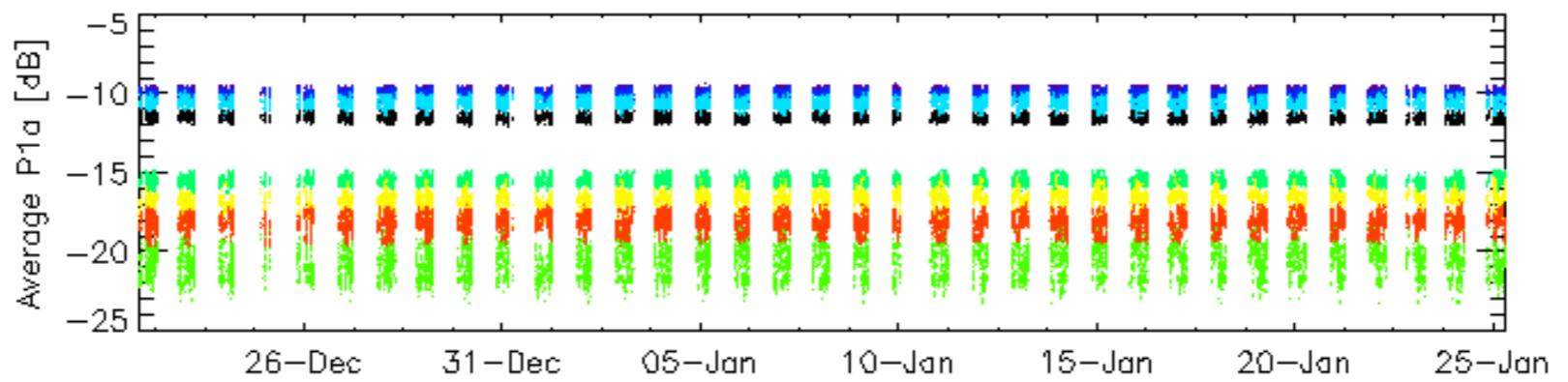
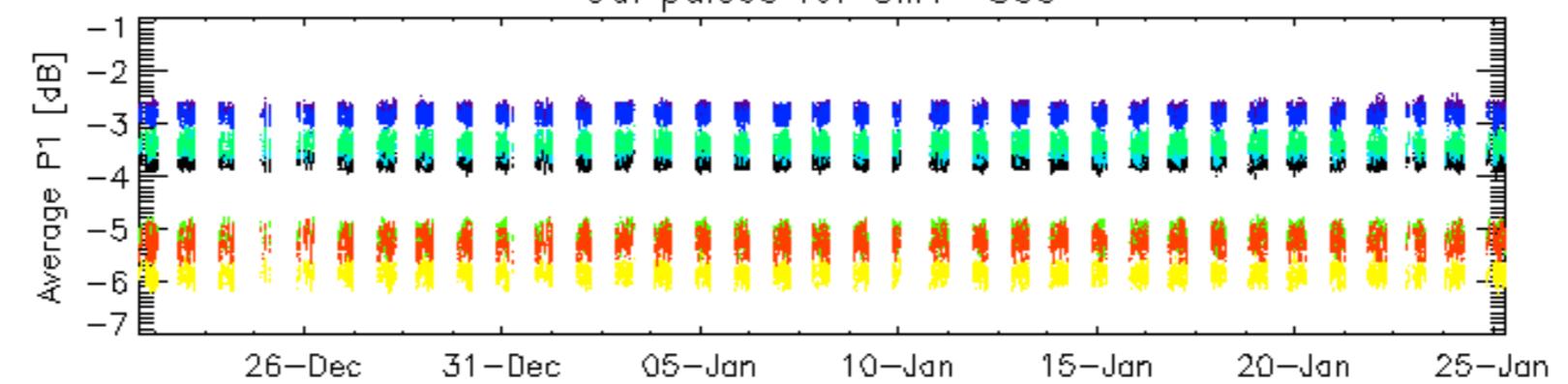
**Evolution Doppler error versus ANX**



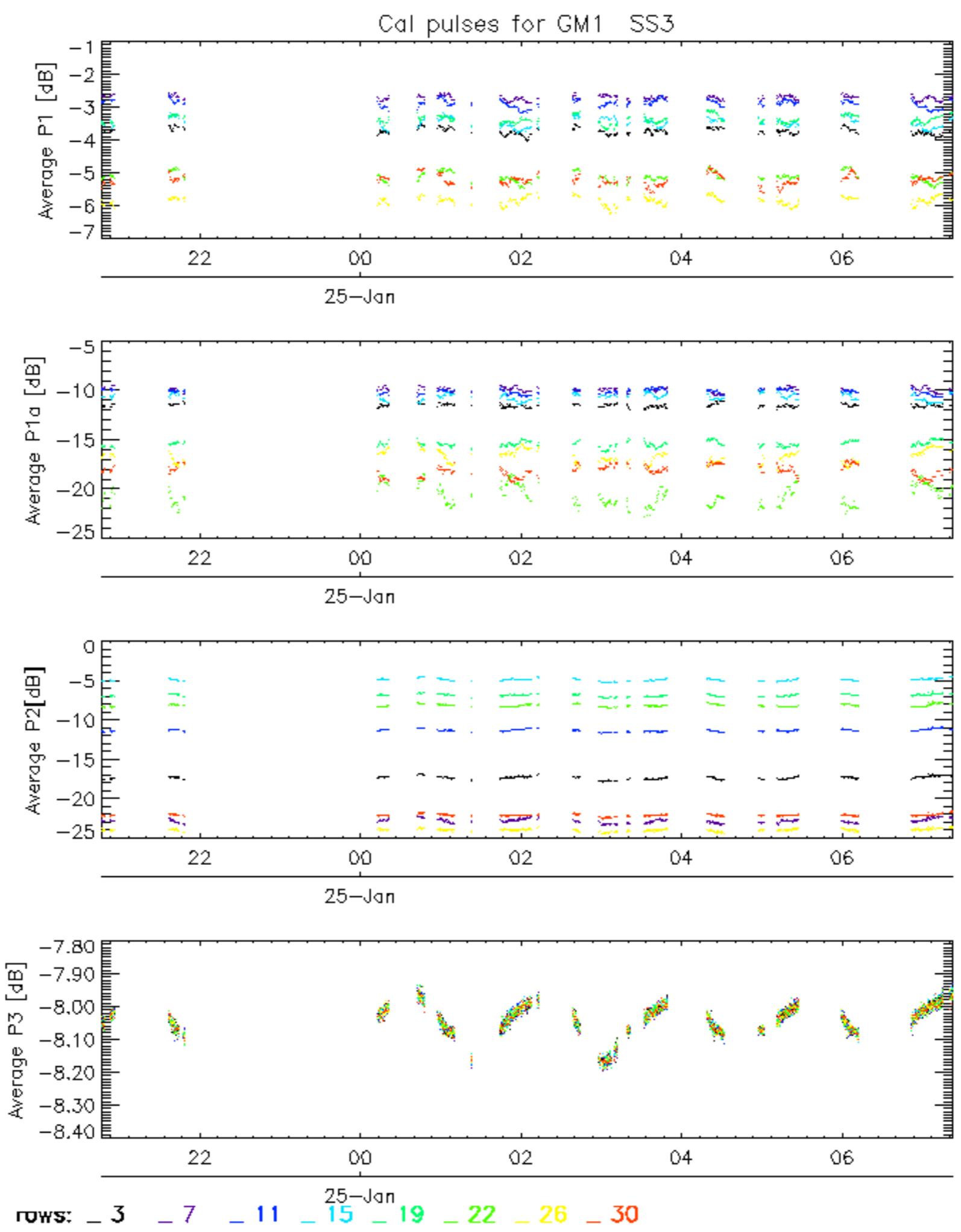




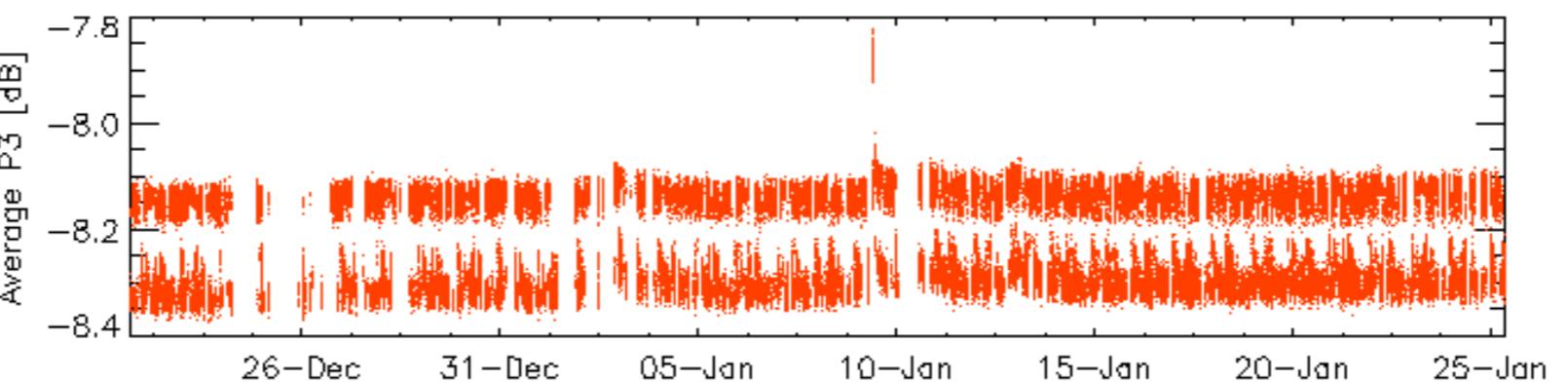
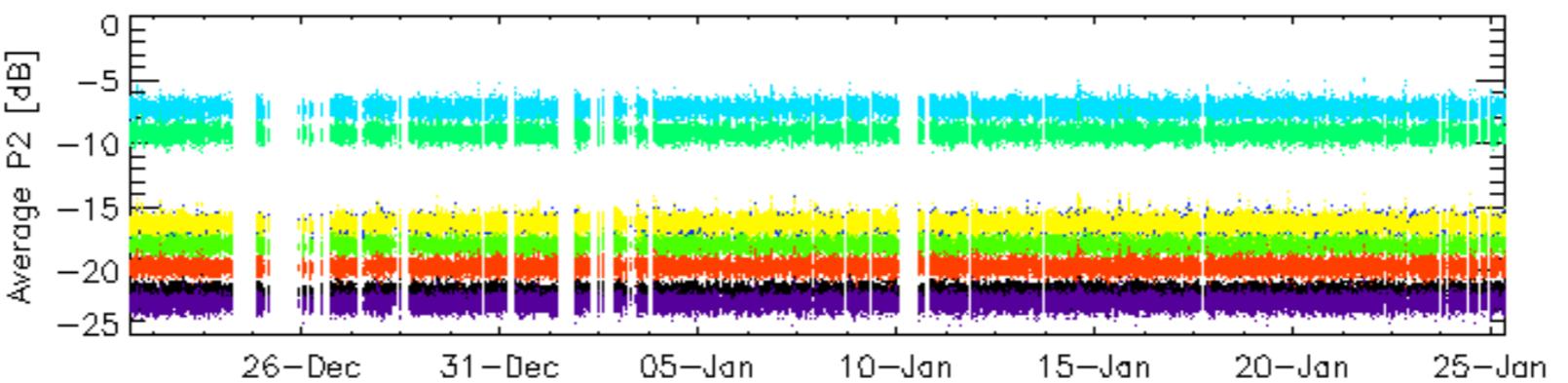
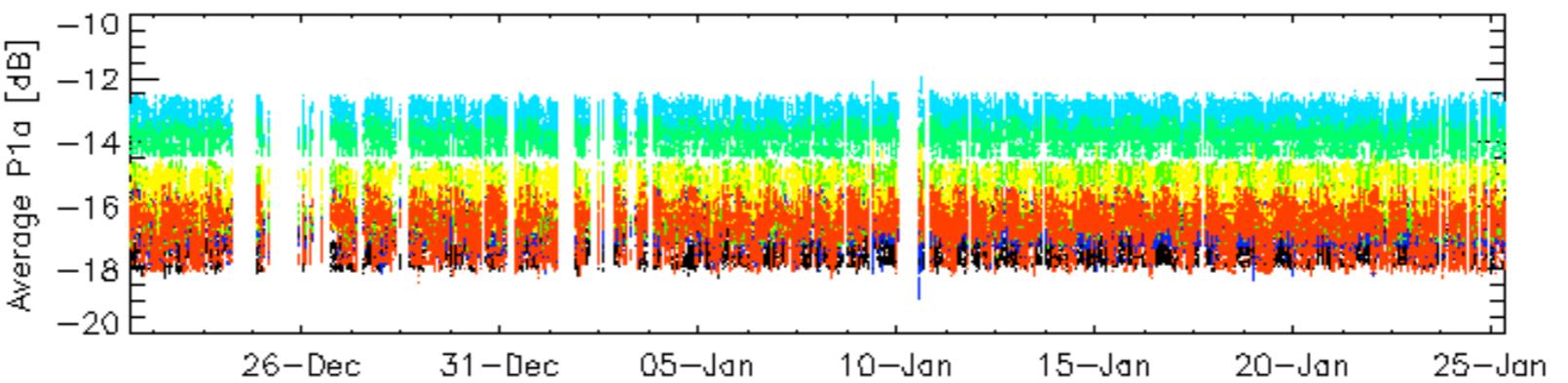
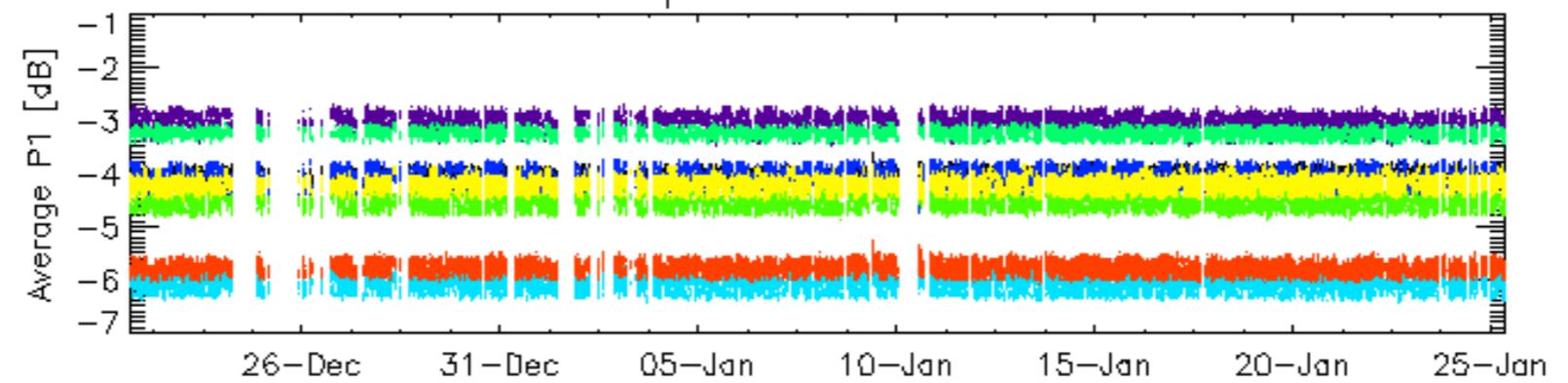
## Cal pulses for GM1 SS3



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

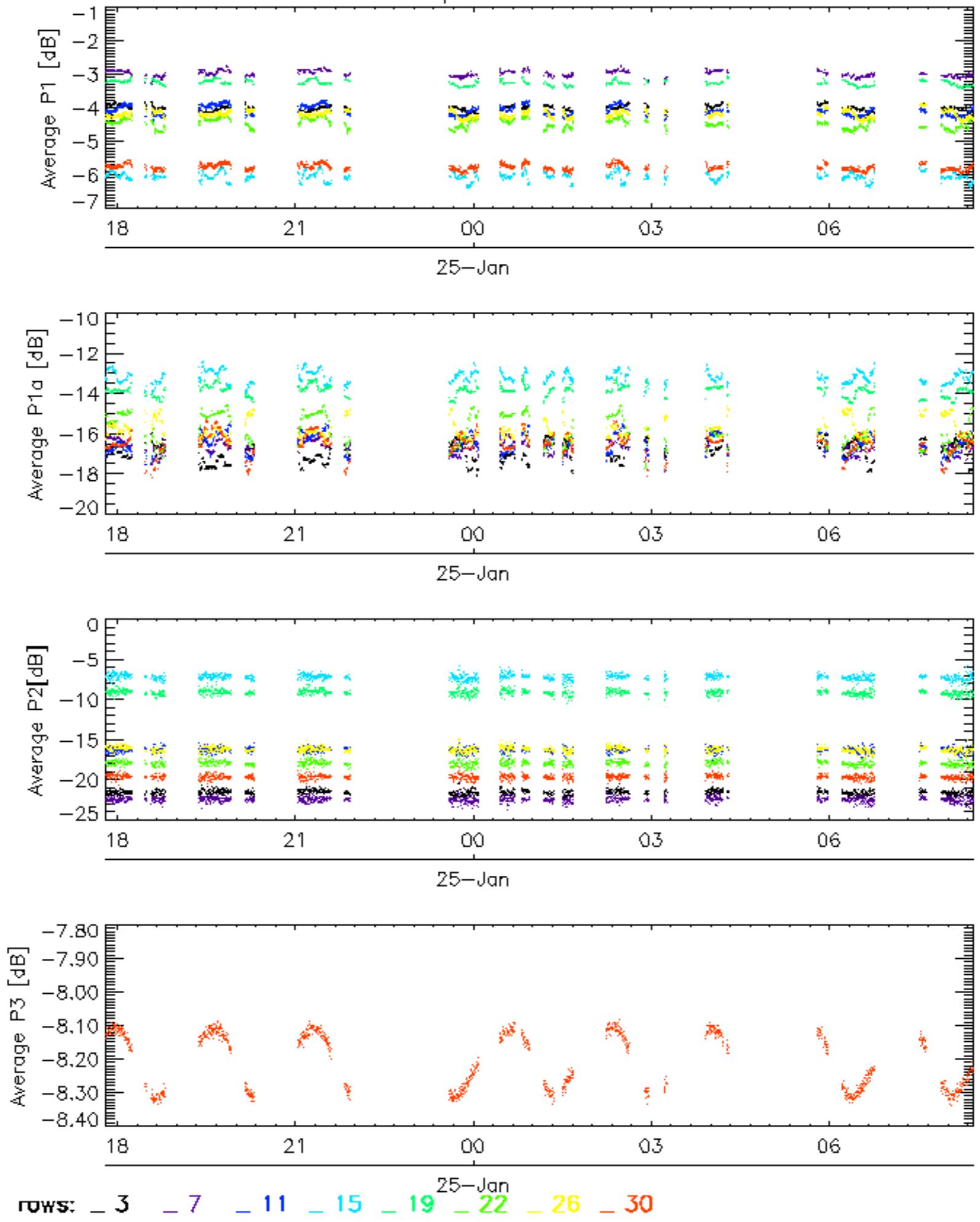


## Cal pulses for WVS IS2



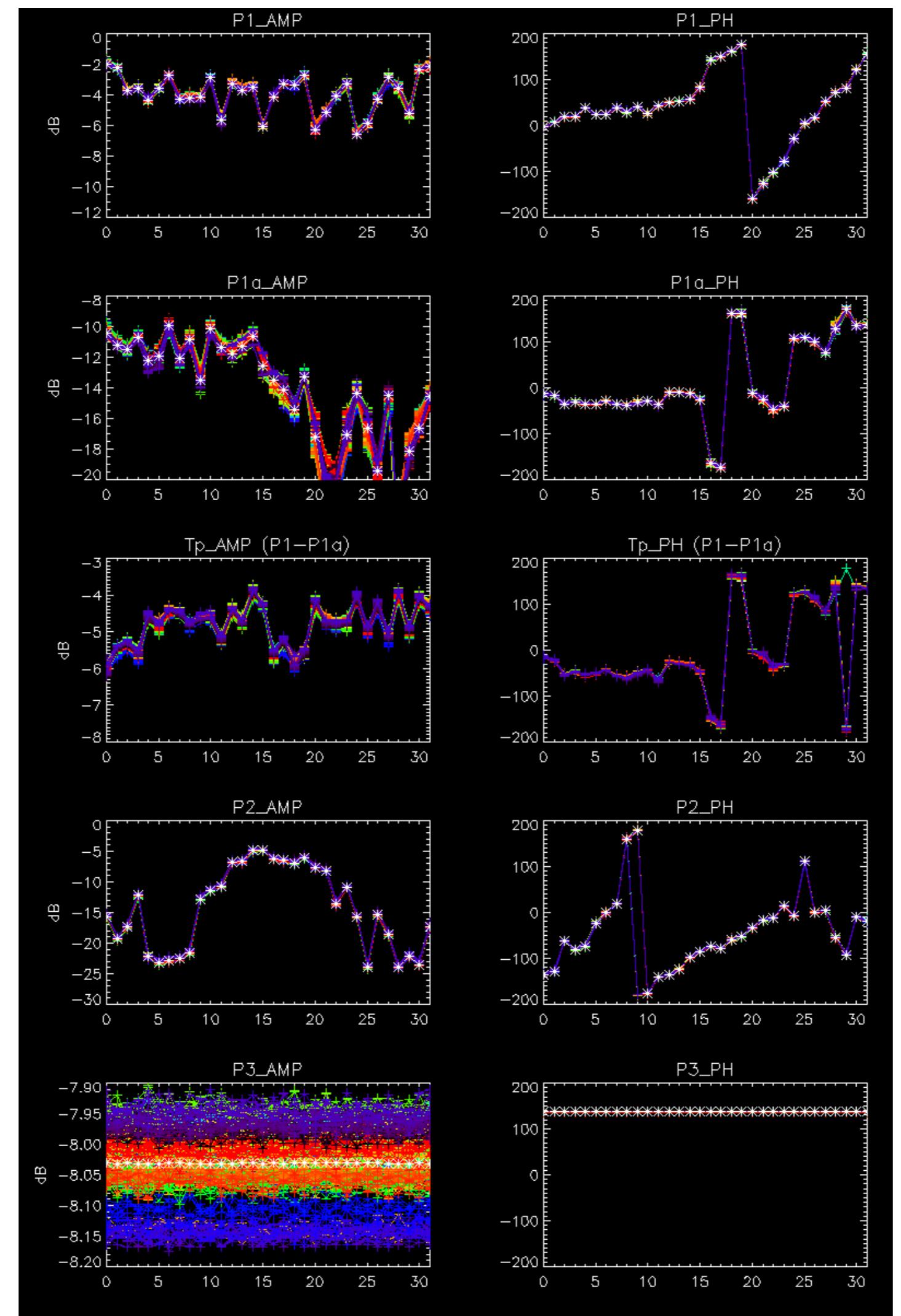
ROWS: \_ 3 \_ 7 \_ 11 \_ 15 \_ 19 \_ 22 \_ 26 \_ 30

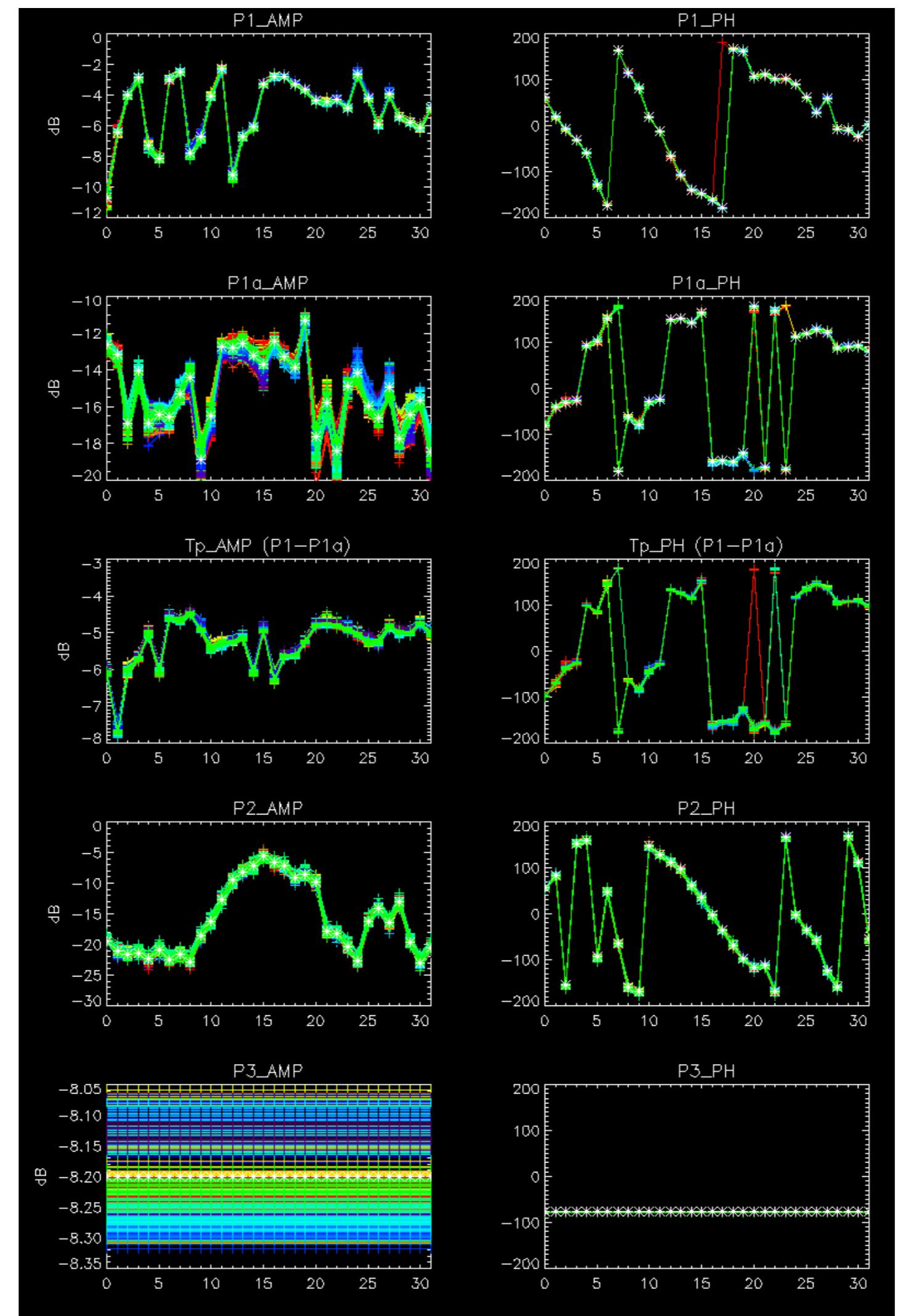
## Cal pulses for WVS IS2



No anomalies observed.



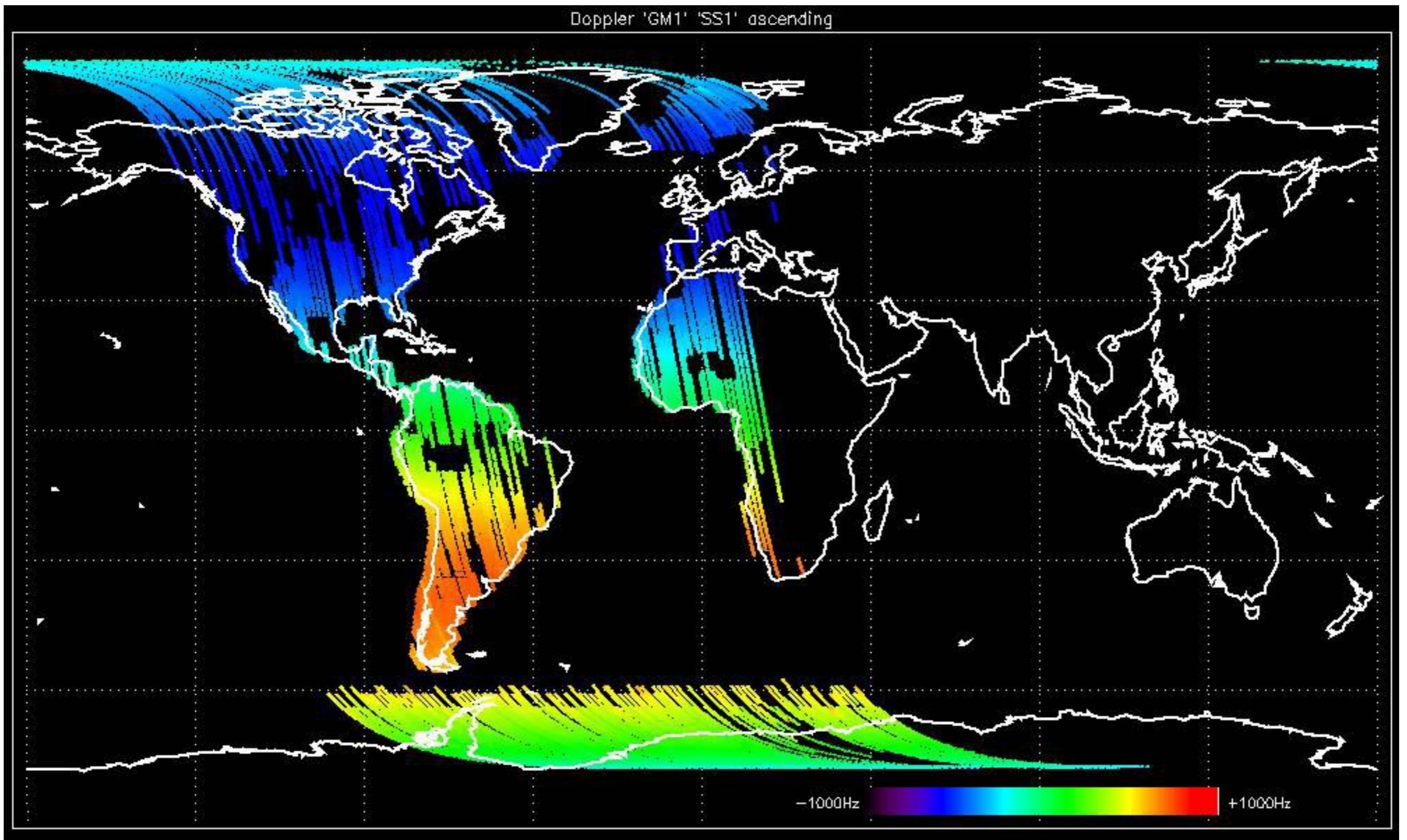


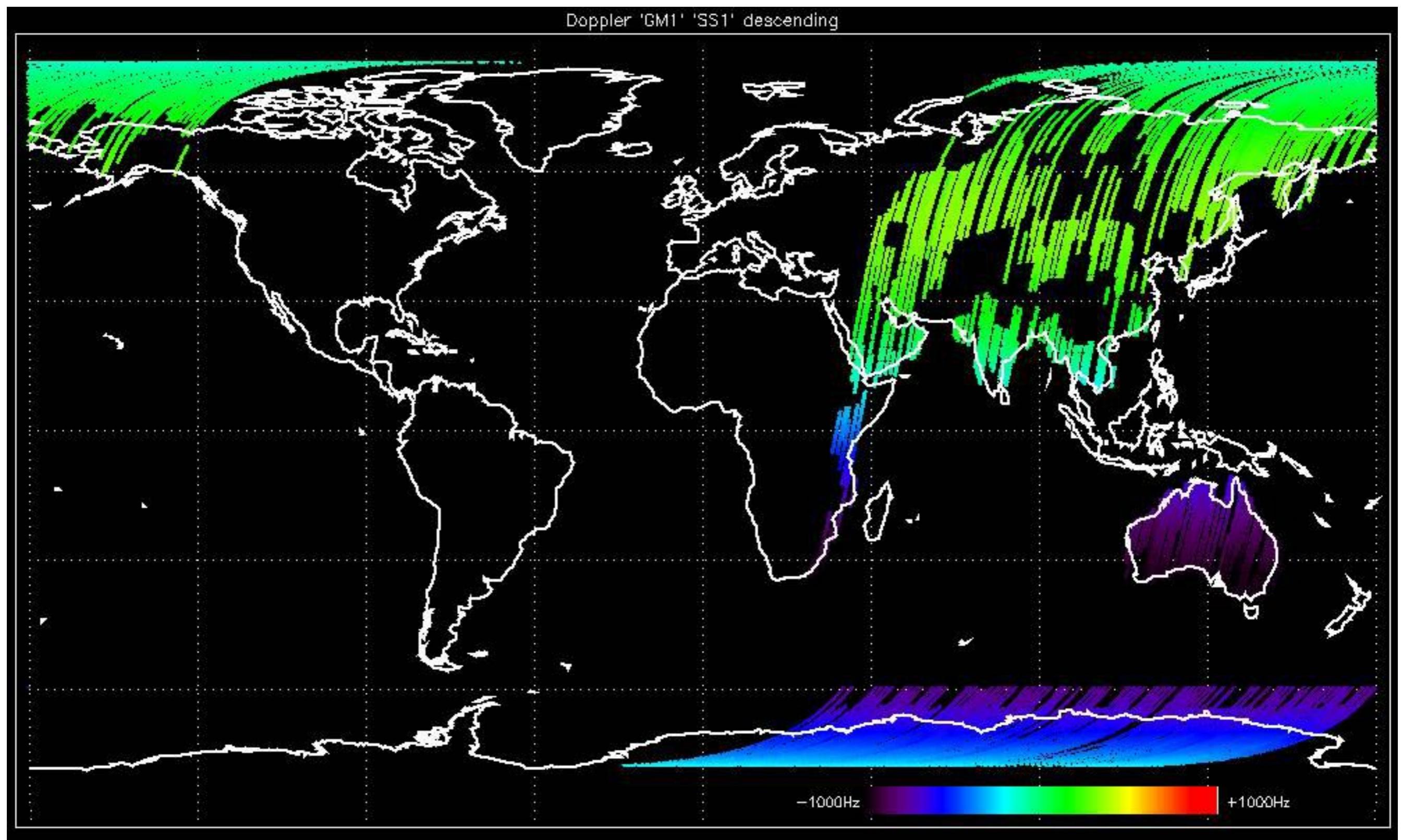


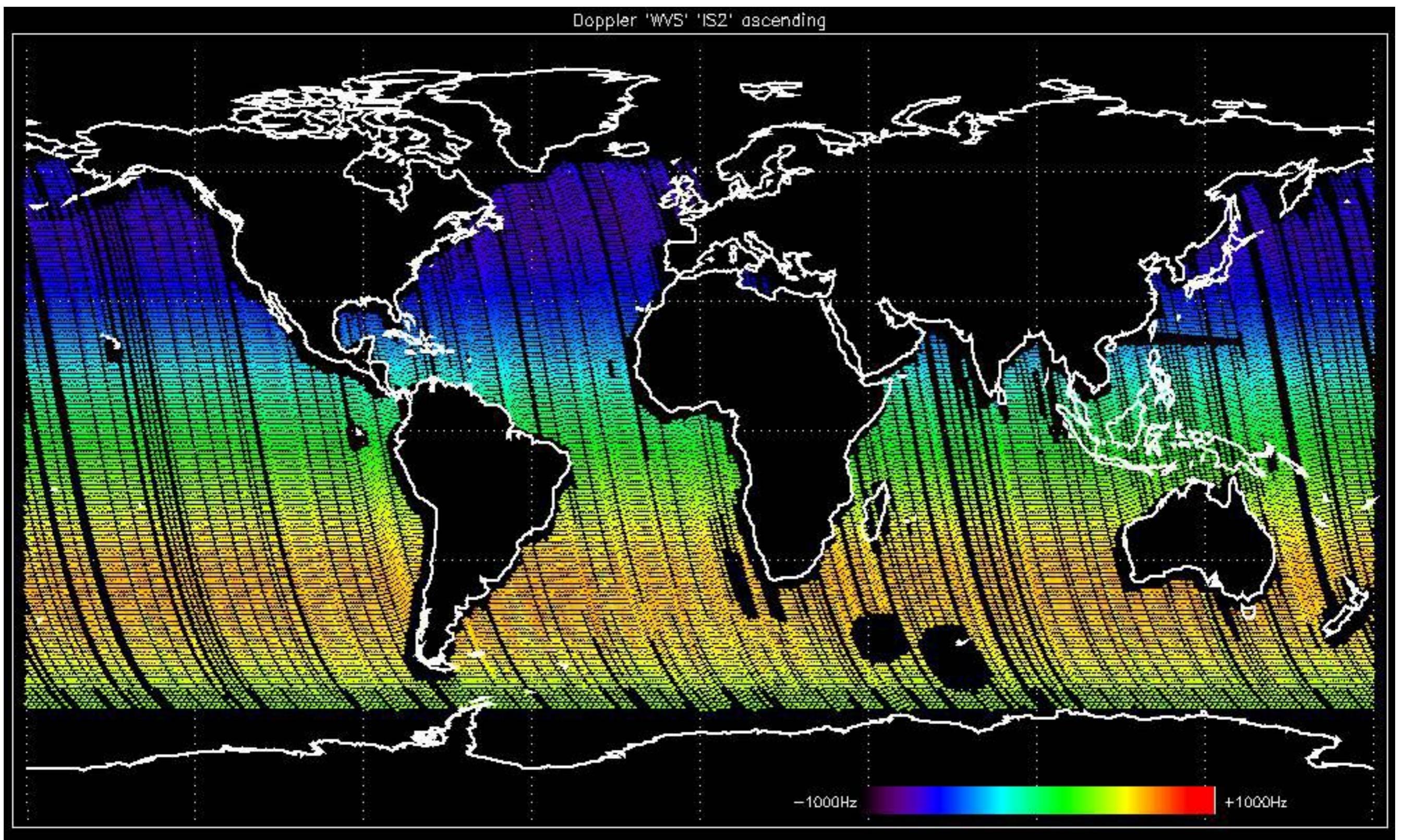
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

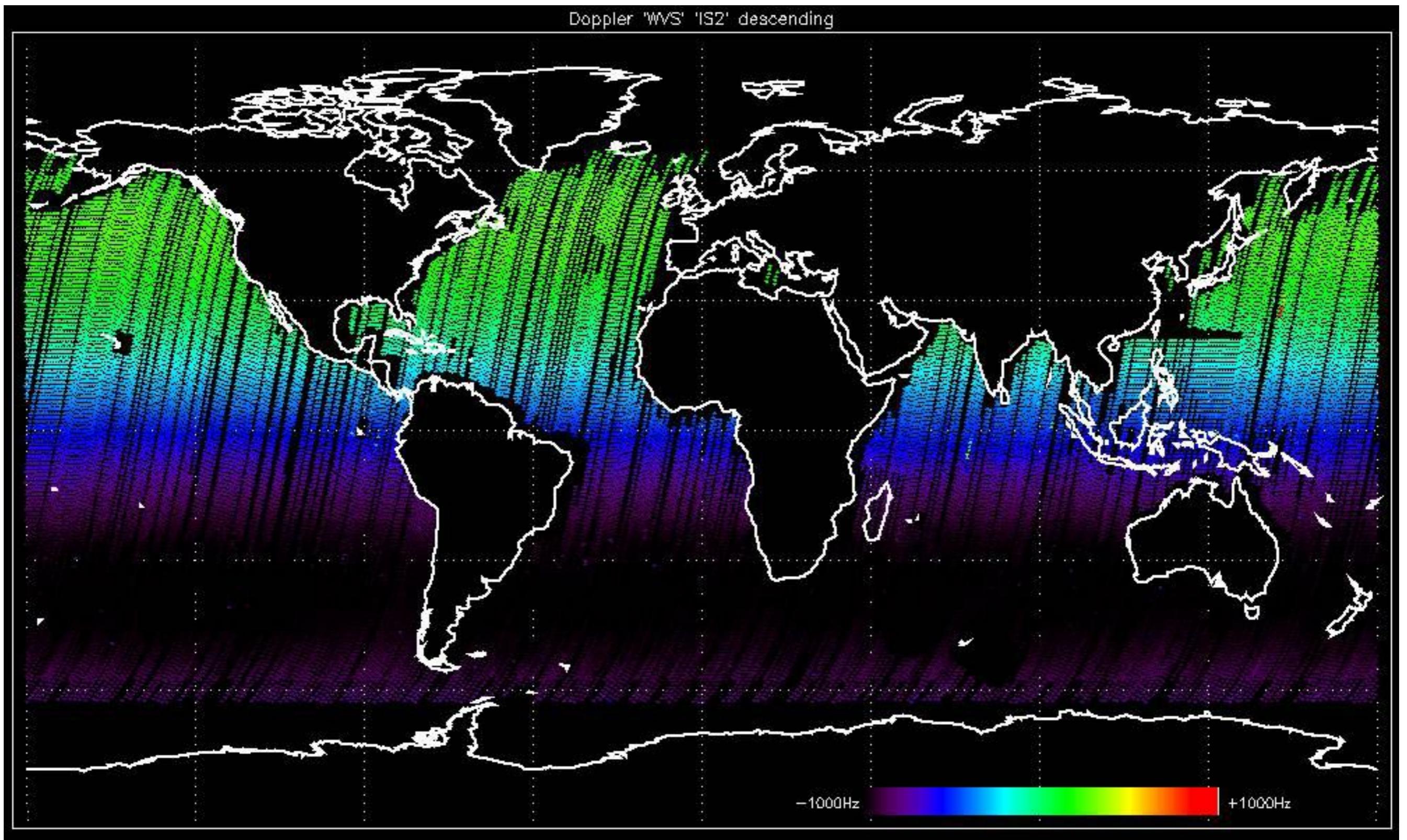


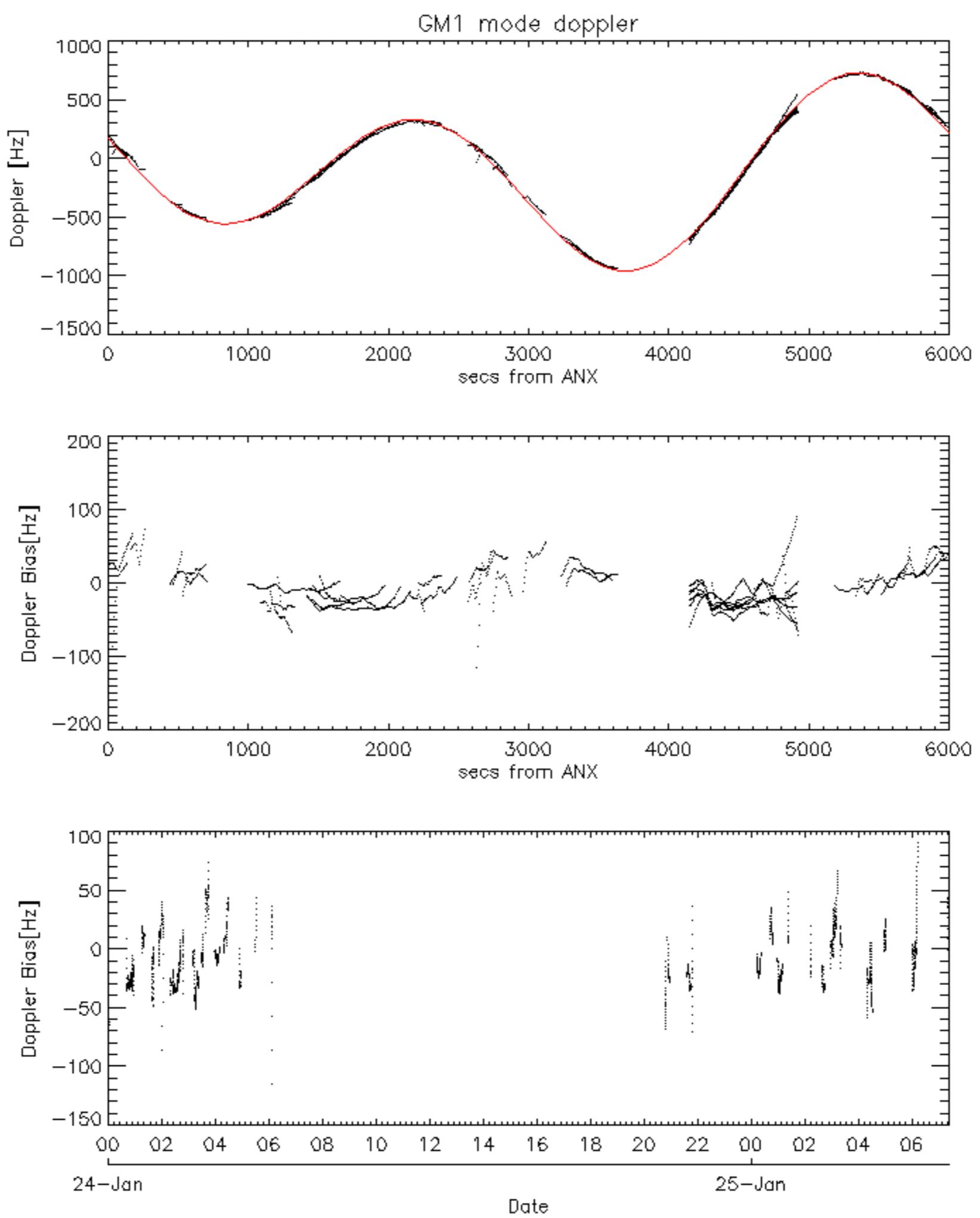


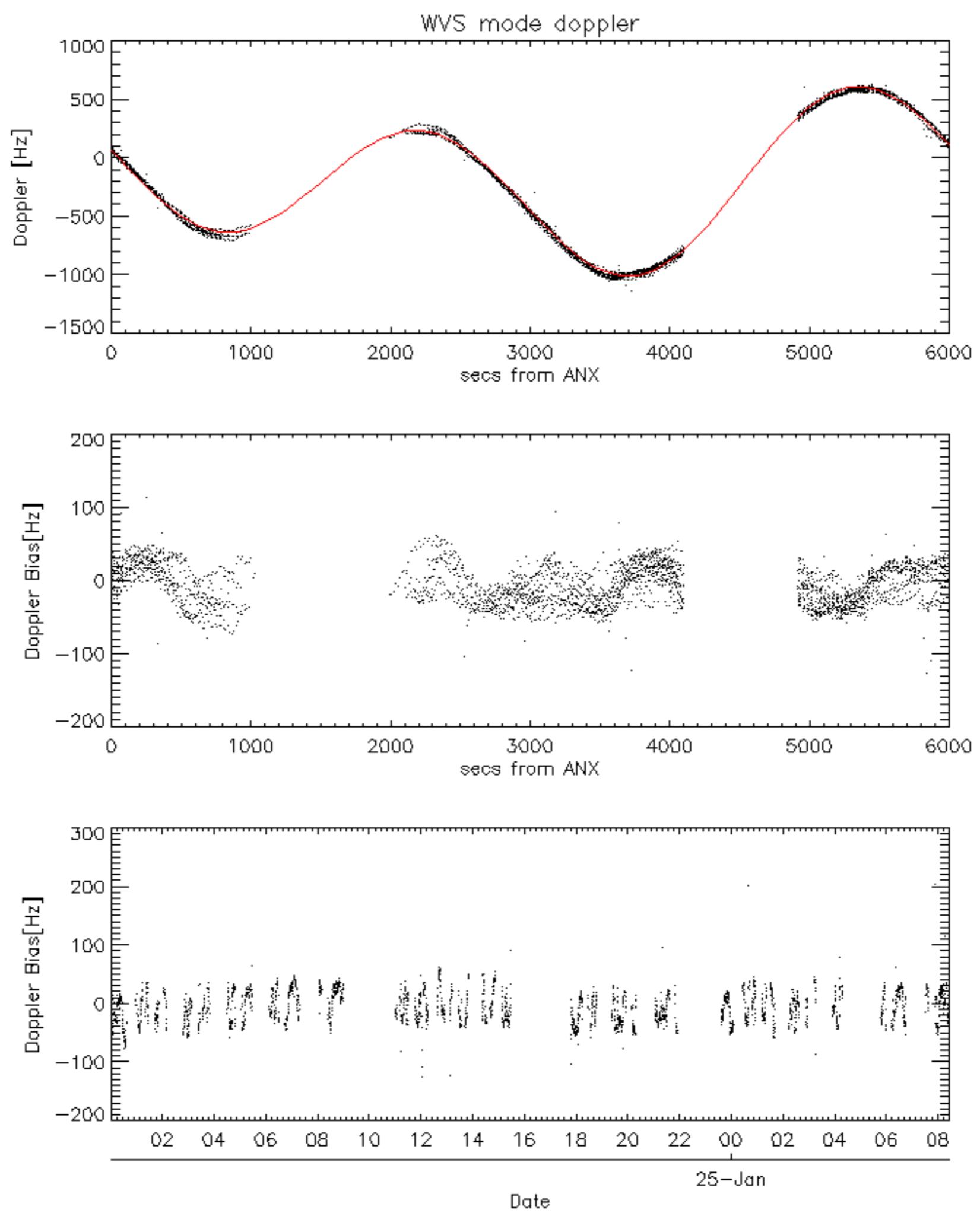


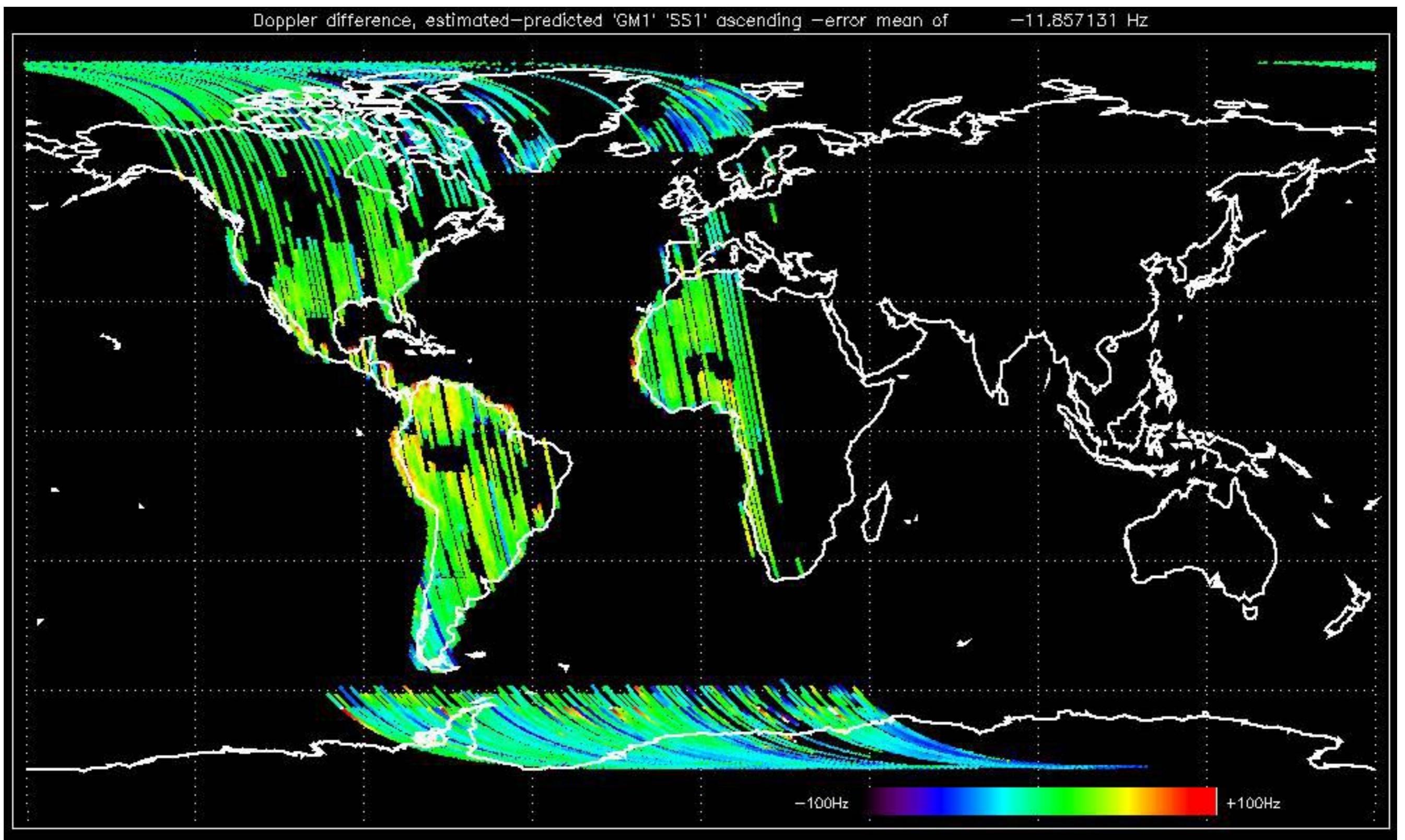


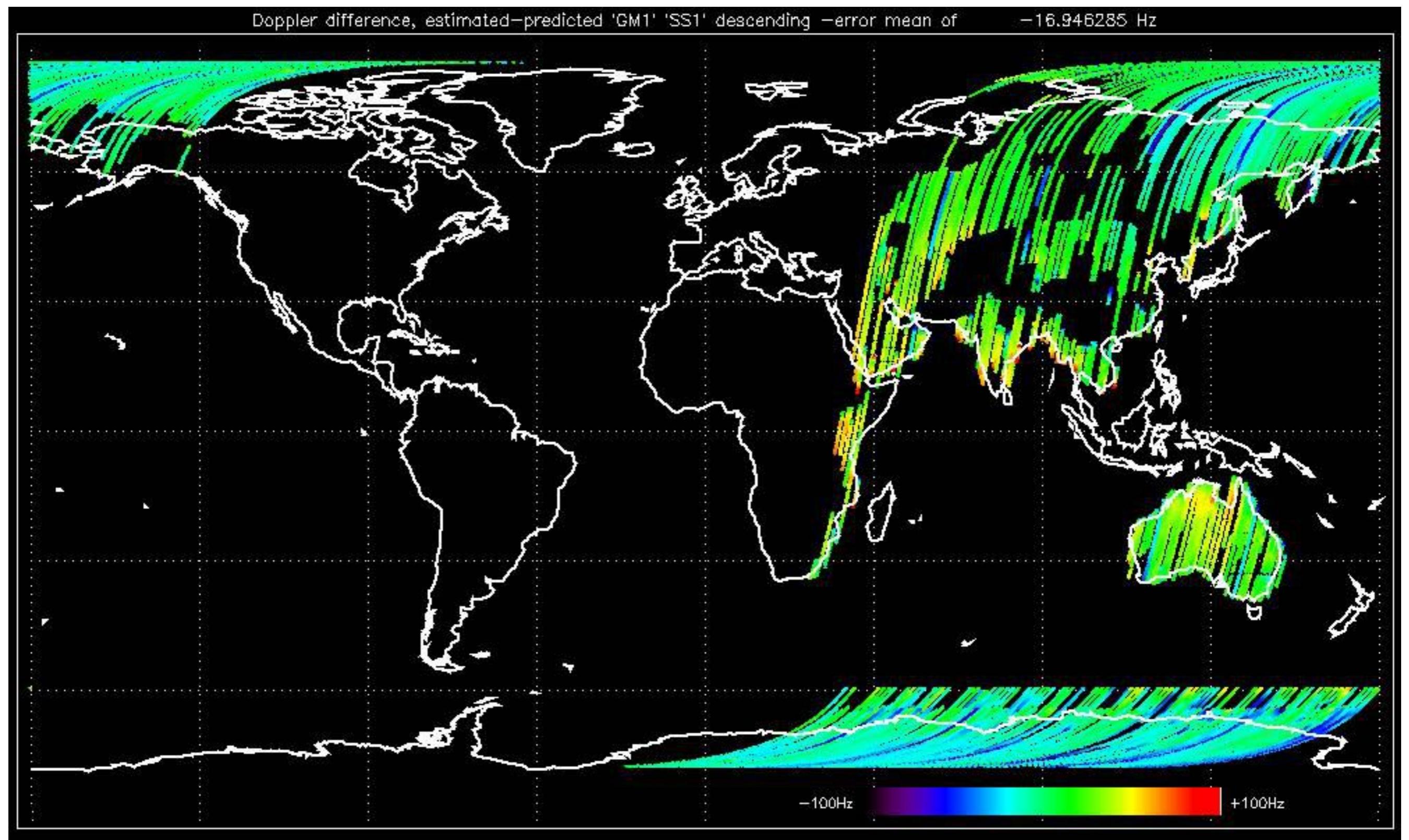


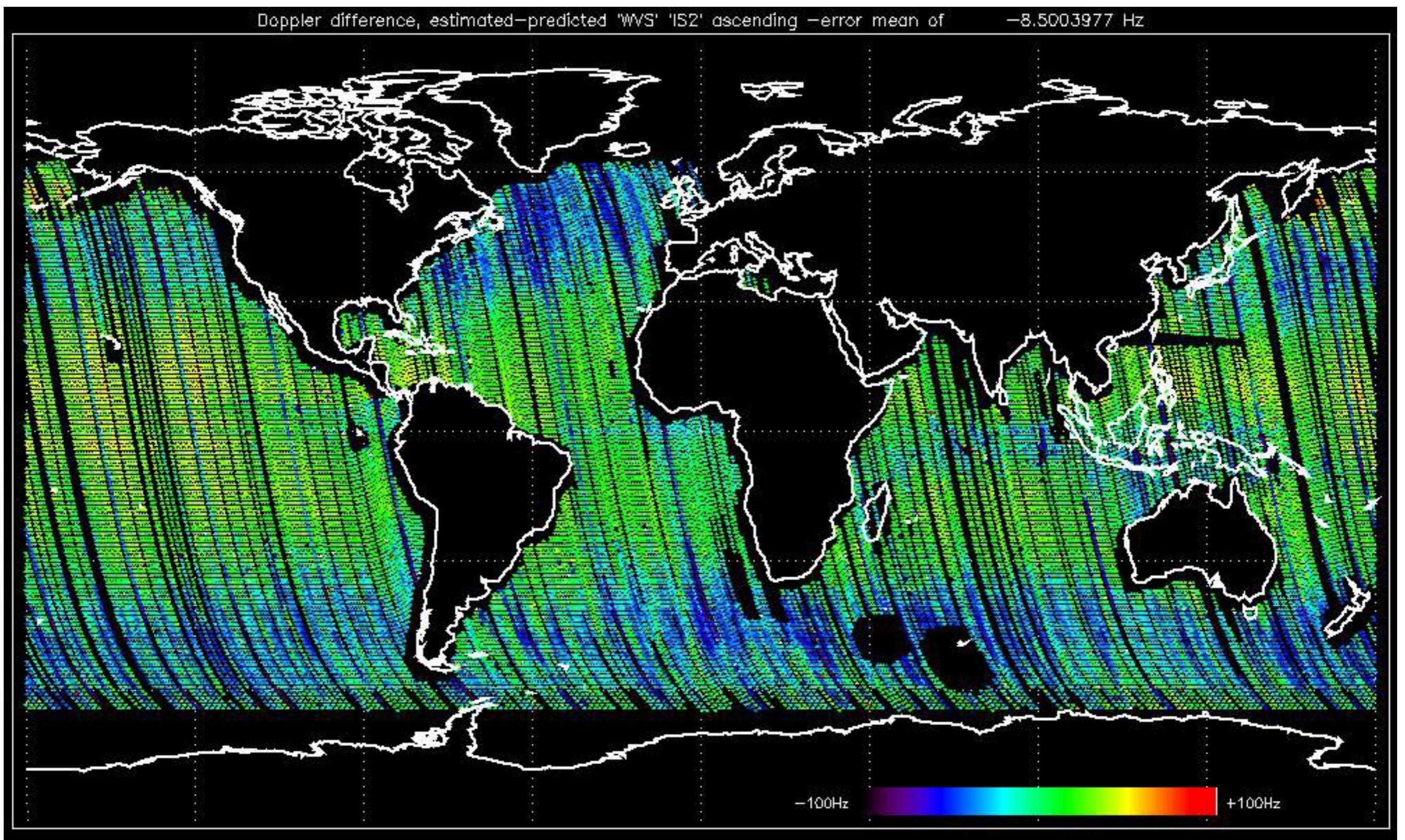


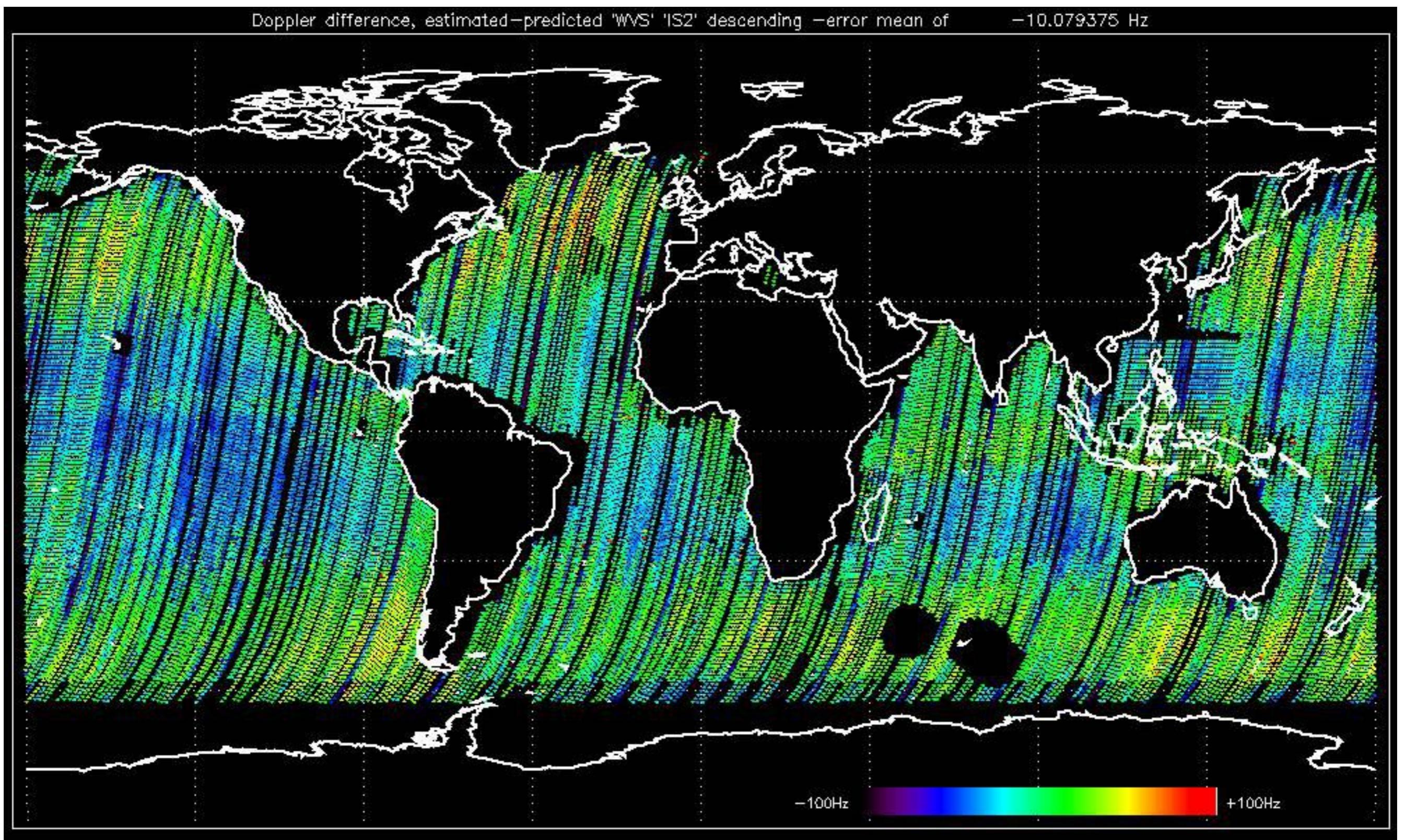












No anomalies observed on available MS products:



No anomalies observed.



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

Test : 2006-01-24 08:10:08 H



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

RxGain

Test : 2006-01-23 08:41:45 V

| RxGain                           |    |    |    |    |    |    |    |    |    |
|----------------------------------|----|----|----|----|----|----|----|----|----|
| Reference: 2005-09-29 07:47:20 V |    |    |    |    |    |    |    |    |    |
| Test : 2006-01-23 08:41:45 V     |    |    |    |    |    |    |    |    |    |
| A1                               | A3 | B1 | B3 | C1 | C3 | D1 | D3 | 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 |    |    |    |    |    |    |    |    |
| A2                               | A4 | B2 | B4 | C2 | C4 | D2 | D4 | E2 | E4 |

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

### RxGain

Test : 2006-01-25 07:38:32 V

Reference: 2005-09-29 07:47:20 V

Test : 2006-01-25 07:38:32 V

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

Test : 2006-01-24 08:10:08 H

|            |            |            |          |         |
|------------|------------|------------|----------|---------|
| Reference: | 2005-10-08 | 03:02:47   | H        | RxPhase |
| Test       | :          | 2006-01-24 | 08:10:08 | H       |
| A1         | A3         | B1         | B3       | C1      |
| A2         | A4         | B2         | B4       | C2      |
| 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         |            |          |         |

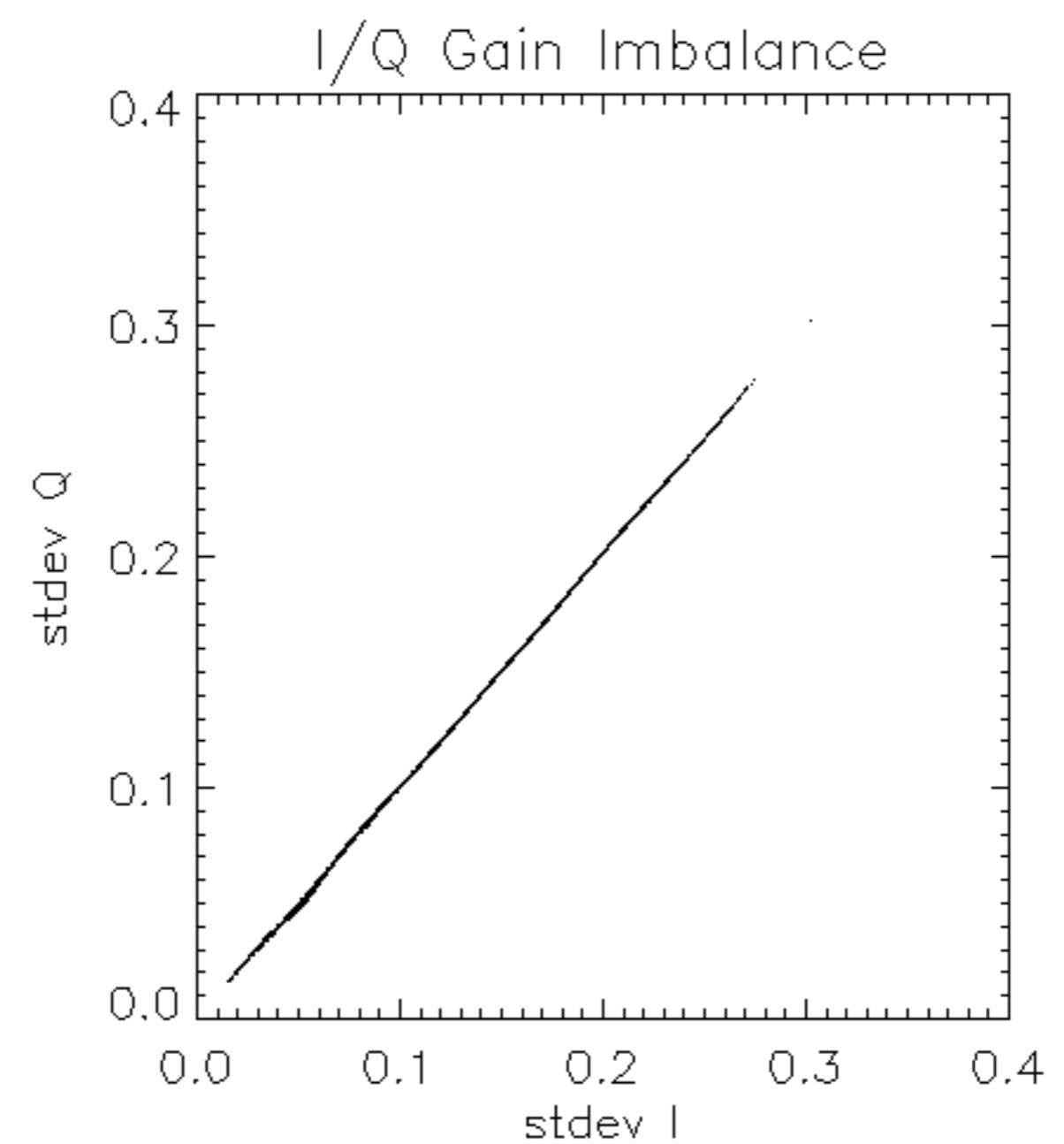


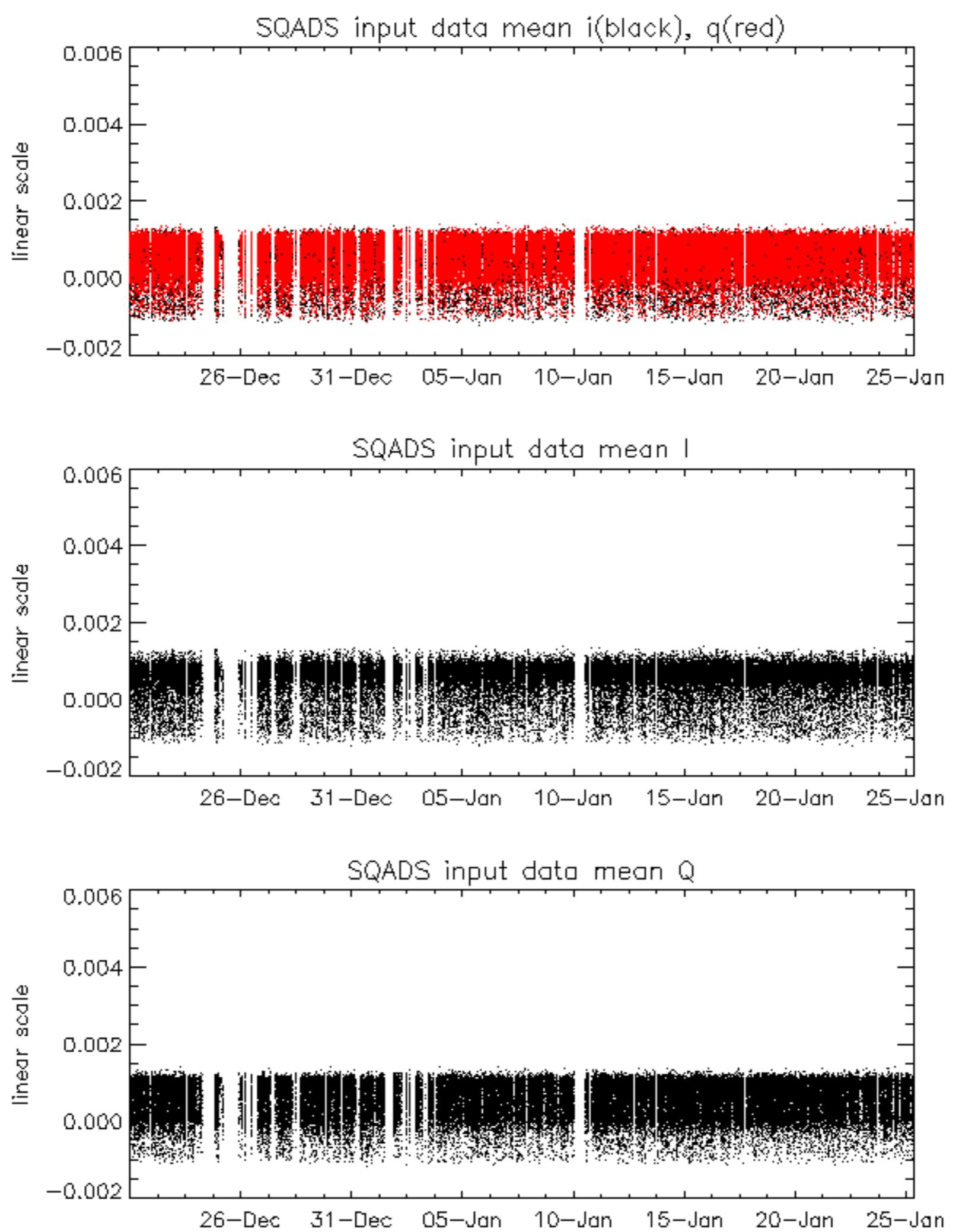
Reference: 2005-09-29 07:47:20 V RxPhase

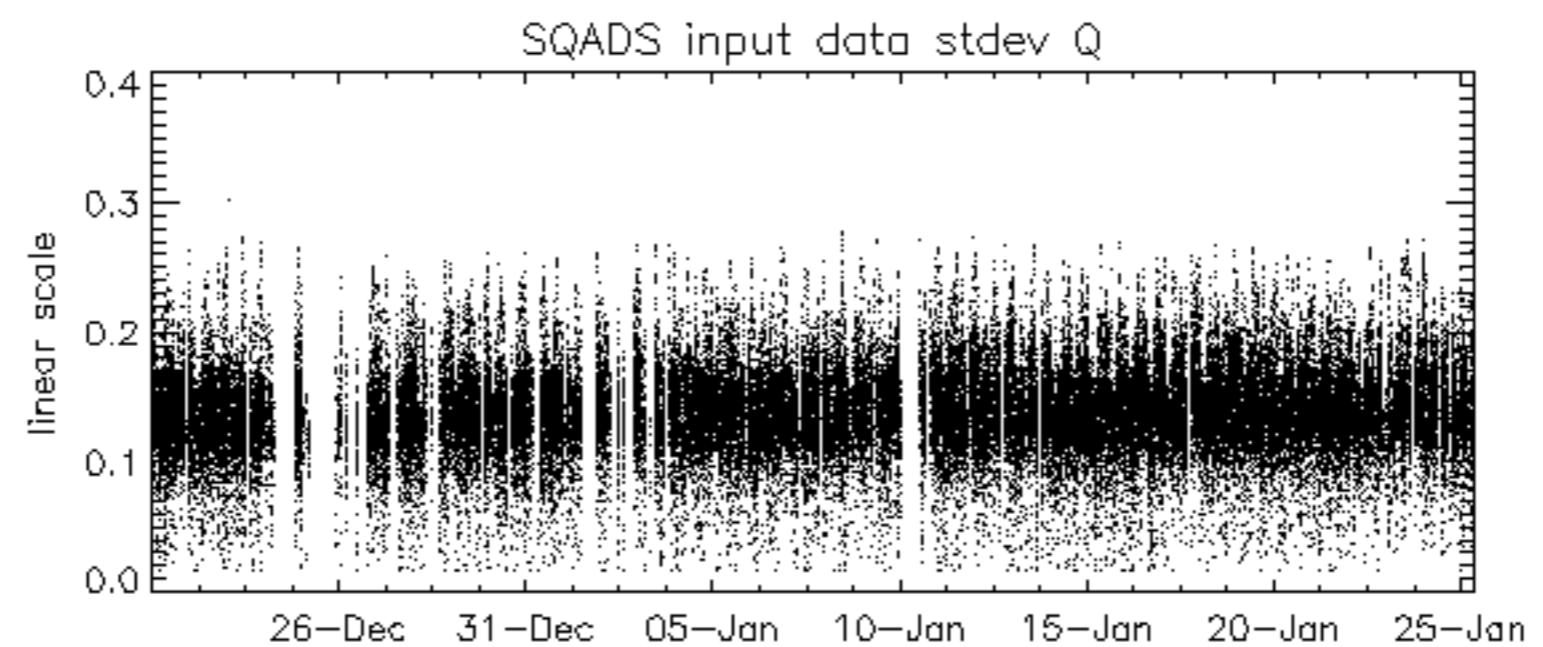
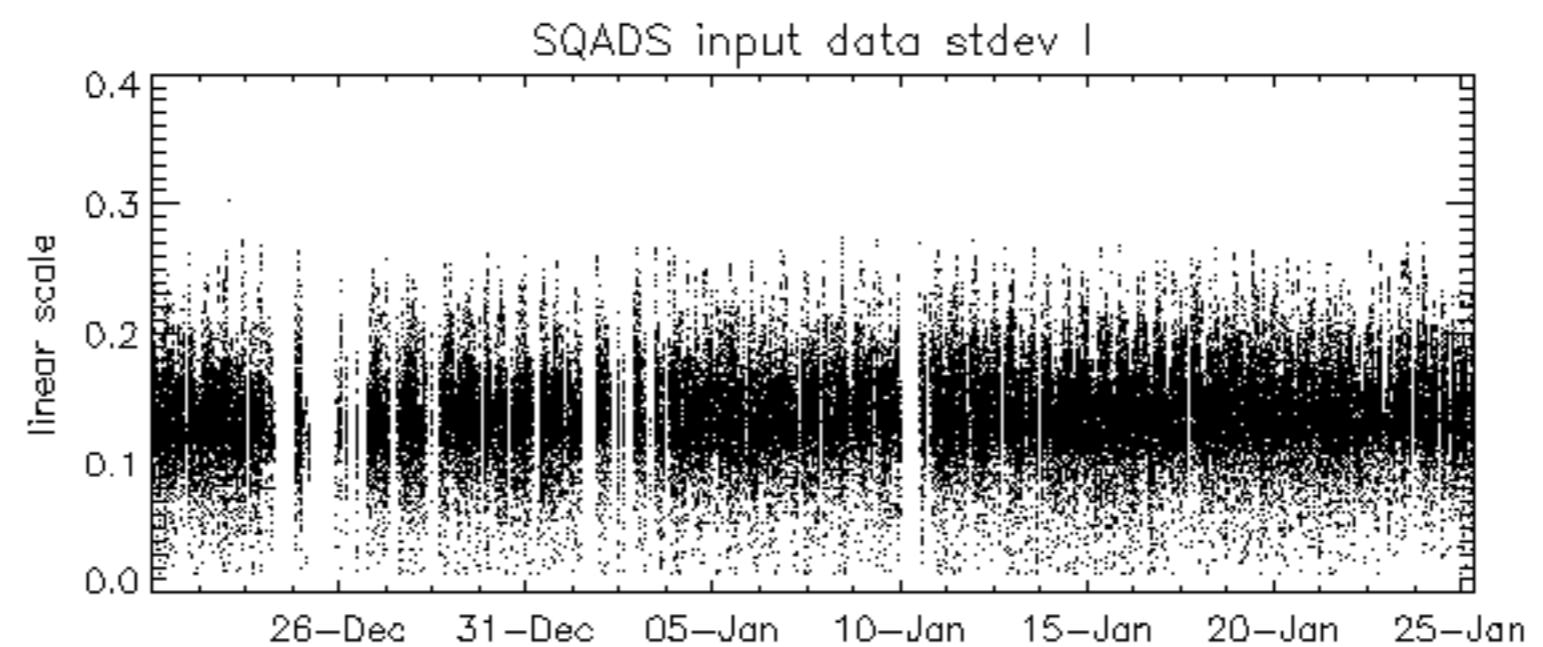
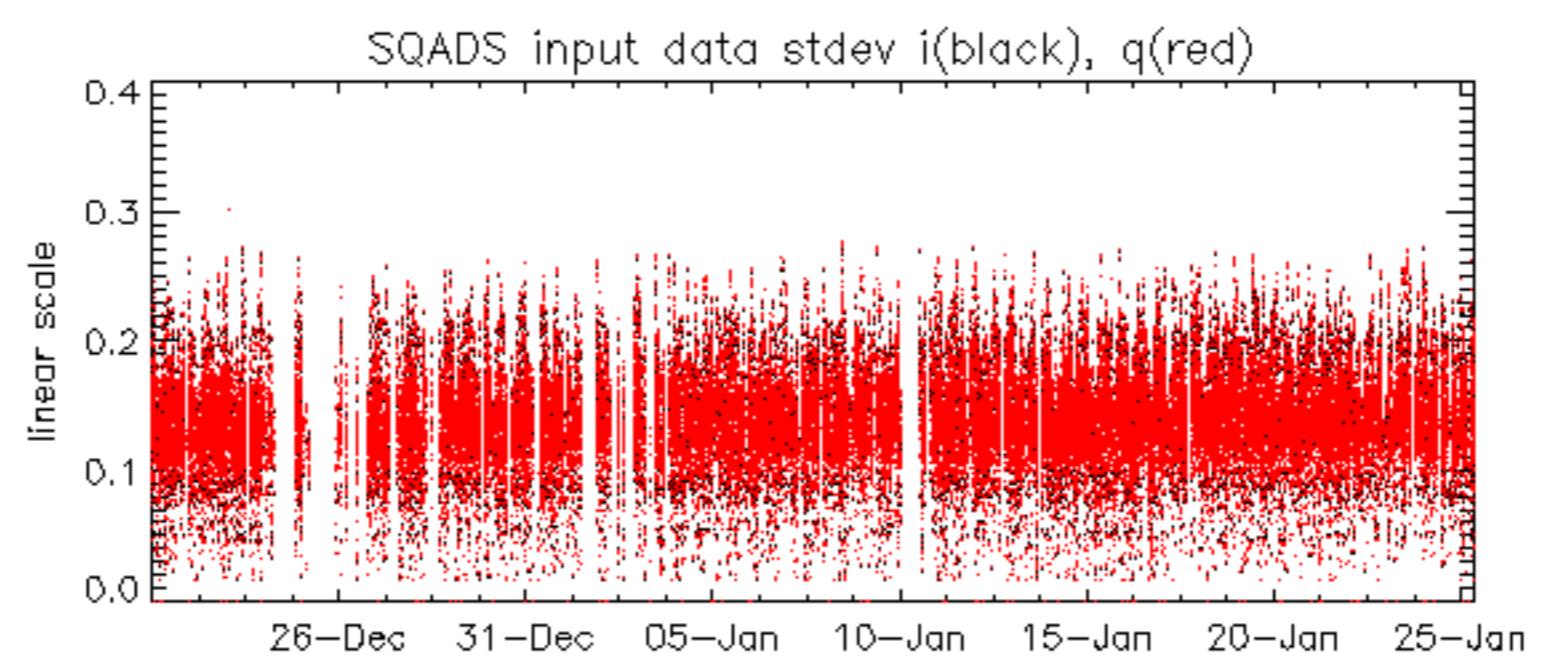
Test : 2006-01-23 08:41:45 V



|            |                         |         |
|------------|-------------------------|---------|
| Reference: | 2005-09-29 07:47:20 V   | RxPhase |
| Test       | : 2006-01-25 07:38:32 V |         |
|            |                         | 1       |
|            |                         | 2       |
|            |                         | 3       |
|            |                         | 4       |
|            |                         | 5       |
|            |                         | 6       |
|            |                         | 7       |
| A1         | A3                      | B1      |
| B3         | C1                      | C3      |
| D1         | D3                      | E1      |
| E3         |                         | 8       |
|            |                         | 9       |
|            |                         | 10      |
|            |                         | 11      |
|            |                         | 12      |
|            |                         | 13      |
|            |                         | 14      |
|            |                         | 15      |
|            |                         | 16      |
|            |                         | 17      |
|            |                         | 18      |
|            |                         | 19      |
|            |                         | 20      |
|            |                         | 21      |
|            |                         | 22      |
|            |                         | 23      |
| A2         | A4                      | B2      |
| B4         | C2                      | C4      |
| D2         | D4                      | E2      |
| E4         |                         | 24      |
|            |                         | 25      |
|            |                         | 26      |
|            |                         | 27      |
|            |                         | 28      |
|            |                         | 29      |
|            |                         | 30      |
|            |                         | 31      |
|            |                         | 32      |







|            |                         |        |
|------------|-------------------------|--------|
| Reference: | 2001-02-09 13:50:42 H   | TxGain |
| Test       | : 2006-01-24 08:10:08 H |        |
|            |                         | 1      |
|            |                         | 2      |
|            |                         | 3      |
|            |                         | 4      |
|            |                         | 5      |
|            |                         | 6      |
|            |                         | 7      |
| A1         | A3                      | B1     |
| B3         | C1                      | C3     |
| D1         | D3                      | E1     |
| E3         |                         | 8      |
|            |                         | 9      |
|            |                         | 10     |
|            |                         | 11     |
|            |                         | 12     |
|            |                         | 13     |
|            |                         | 14     |
|            |                         | 15     |
|            |                         | 16     |
|            |                         | 17     |
|            |                         | 18     |
|            |                         | 19     |
|            |                         | 20     |
|            |                         | 21     |
|            |                         | 22     |
|            |                         | 23     |
| A2         | A4                      | B2     |
| B4         | C2                      | C4     |
| D2         | D4                      | E2     |
| E4         |                         | 24     |
|            |                         | 25     |
|            |                         | 26     |
|            |                         | 27     |
|            |                         | 28     |
|            |                         | 29     |
|            |                         | 30     |
|            |                         | 31     |
|            |                         | 32     |

Reference: 2005-10-08 03:02:47 H

Test : 2006-01-24 08:10:08 H

|            |                         |        |
|------------|-------------------------|--------|
| Reference: | 2001-02-09 14:08:23 V   | TxGain |
| Test       | : 2006-01-23 08:41:45 V |        |
|            |                         | 1      |
|            |                         | 2      |
|            |                         | 3      |
|            |                         | 4      |
|            |                         | 5      |
|            |                         | 6      |
|            |                         | 7      |
| A1         | A3                      | B1     |
| B3         | C1                      | C3     |
| D1         | D3                      | E1     |
|            |                         | E3     |
|            |                         | 8      |
|            |                         | 9      |
|            |                         | 10     |
|            |                         | 11     |
|            |                         | 12     |
|            |                         | 13     |
|            |                         | 14     |
|            |                         | 15     |
|            |                         | 16     |
|            |                         | 17     |
|            |                         | 18     |
|            |                         | 19     |
|            |                         | 20     |
|            |                         | 21     |
|            |                         | 22     |
|            |                         | 23     |
| A2         | A4                      | B2     |
| B4         | C2                      | C4     |
| D2         | D4                      | E2     |
|            |                         | E4     |
|            |                         | 24     |
|            |                         | 25     |
|            |                         | 26     |
|            |                         | 27     |
|            |                         | 28     |
|            |                         | 29     |
|            |                         | 30     |
|            |                         | 31     |
|            |                         | 32     |

|            |            |            |          |        |
|------------|------------|------------|----------|--------|
| Reference: | 2005-09-29 | 07:47:20   | V        | TxGain |
| Test       | :          | 2006-01-23 | 08:41:45 | V      |
|            |            |            |          |        |
|            |            |            |          | 1      |
|            |            |            |          | 2      |
|            |            |            |          | 3      |
|            |            |            |          | 4      |
|            |            |            |          | 5      |
|            |            |            |          | 6      |
|            |            |            |          | 7      |
| A1         | A3         | B1         | B3       | C1     |
|            |            |            |          | C3     |
|            |            |            |          | D1     |
|            |            |            |          | D3     |
|            |            |            |          | E1     |
|            |            |            |          | E3     |
|            |            |            |          | 8      |
|            |            |            |          | 9      |
|            |            |            |          | 10     |
|            |            |            |          | 11     |
|            |            |            |          | 12     |
|            |            |            |          | 13     |
|            |            |            |          | 14     |
|            |            |            |          | 15     |
|            |            |            |          | 16     |
|            |            |            |          | 17     |
|            |            |            |          | 18     |
|            |            |            |          | 19     |
|            |            |            |          | 20     |
|            |            |            |          | 21     |
|            |            |            |          | 22     |
|            |            |            |          | 23     |
| A2         | A4         | B2         | B4       | C2     |
|            |            |            |          | C4     |
|            |            |            |          | D2     |
|            |            |            |          | D4     |
|            |            |            |          | E2     |
|            |            |            |          | E4     |
|            |            |            |          | 24     |
|            |            |            |          | 25     |
|            |            |            |          | 26     |
|            |            |            |          | 27     |
|            |            |            |          | 28     |
|            |            |            |          | 29     |
|            |            |            |          | 30     |
|            |            |            |          | 31     |
|            |            |            |          | 32     |

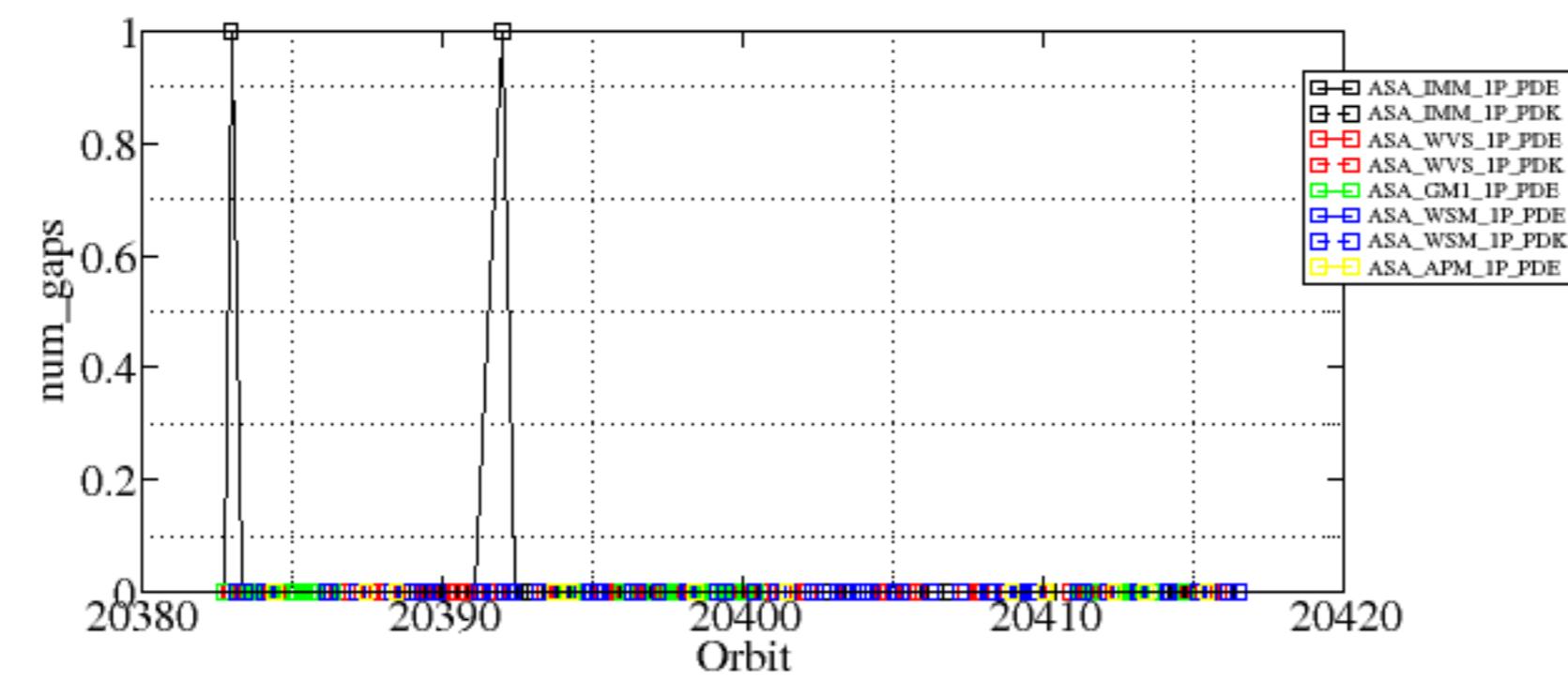


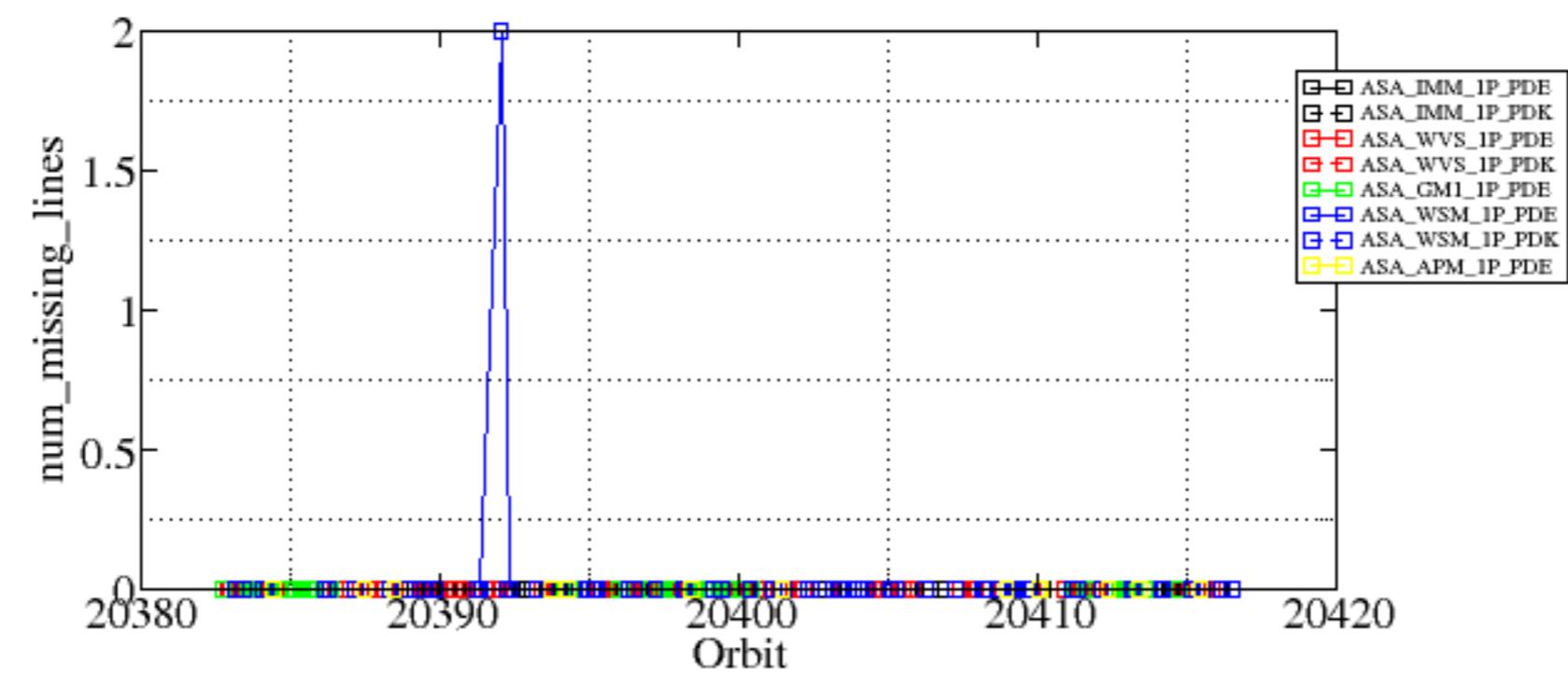


Summary of analysis for the last 3 days 2006012[345]

The assumptions is taken that the SQADS num\_gaps and num\_missing\_lines fields are reliable indicators of telemetry problems

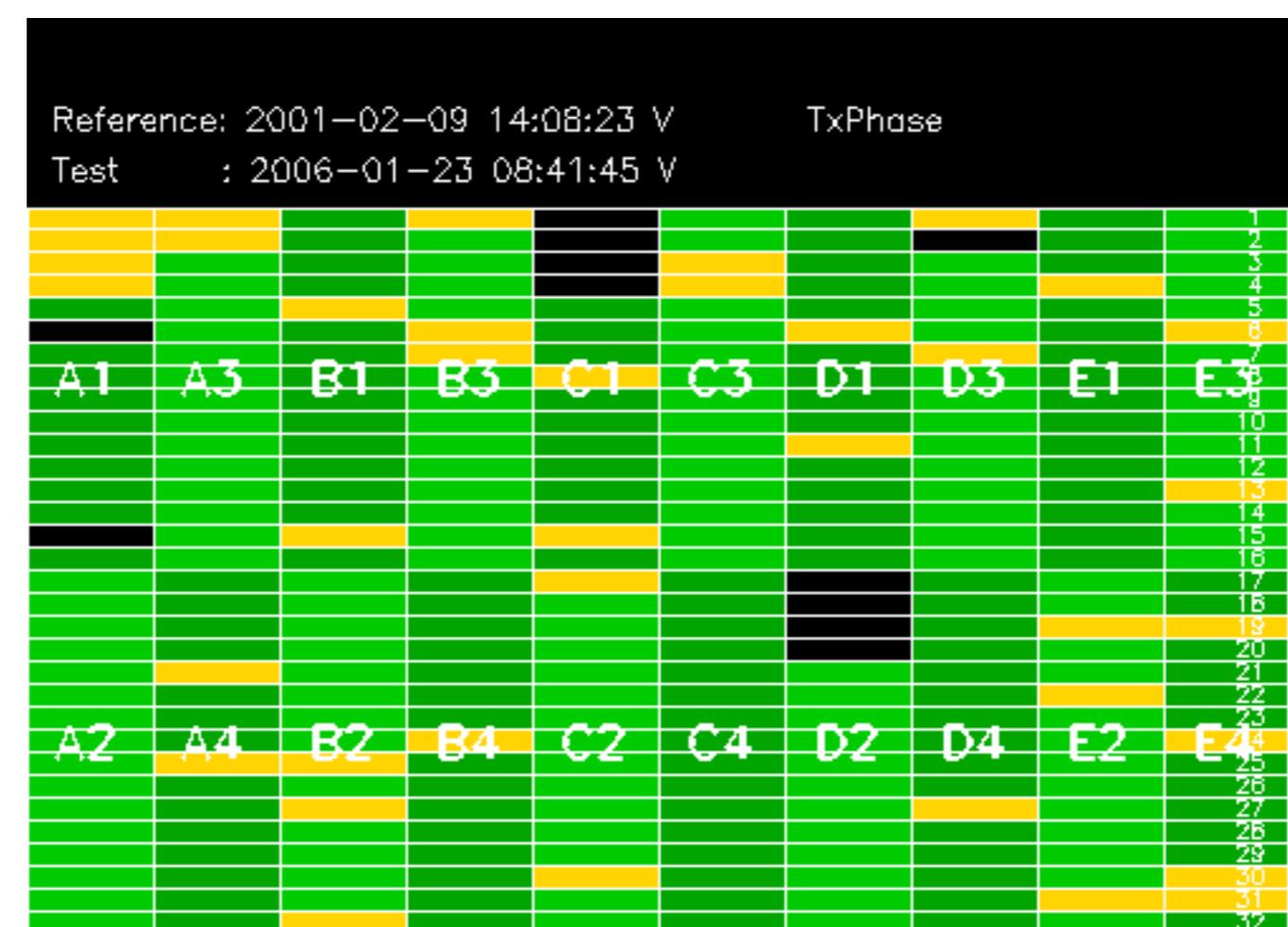
| Filename  | num_gaps | num_missing_lines |
|---|----------|-------------------|
| ASA_IMM_1PNPDE20060123_004758_00002002044_00288_20382_0815.N1 | 1        | 0                 |
| ASA_IMM_1PNPDE20060123_155721_00002312044_00298_20392_0902.N1 | 1        | 0                 |
| ASA_WSM_1PNPDE20060123_160304_00001282044_00298_20392_2090.N1 | 0        | 2                 |







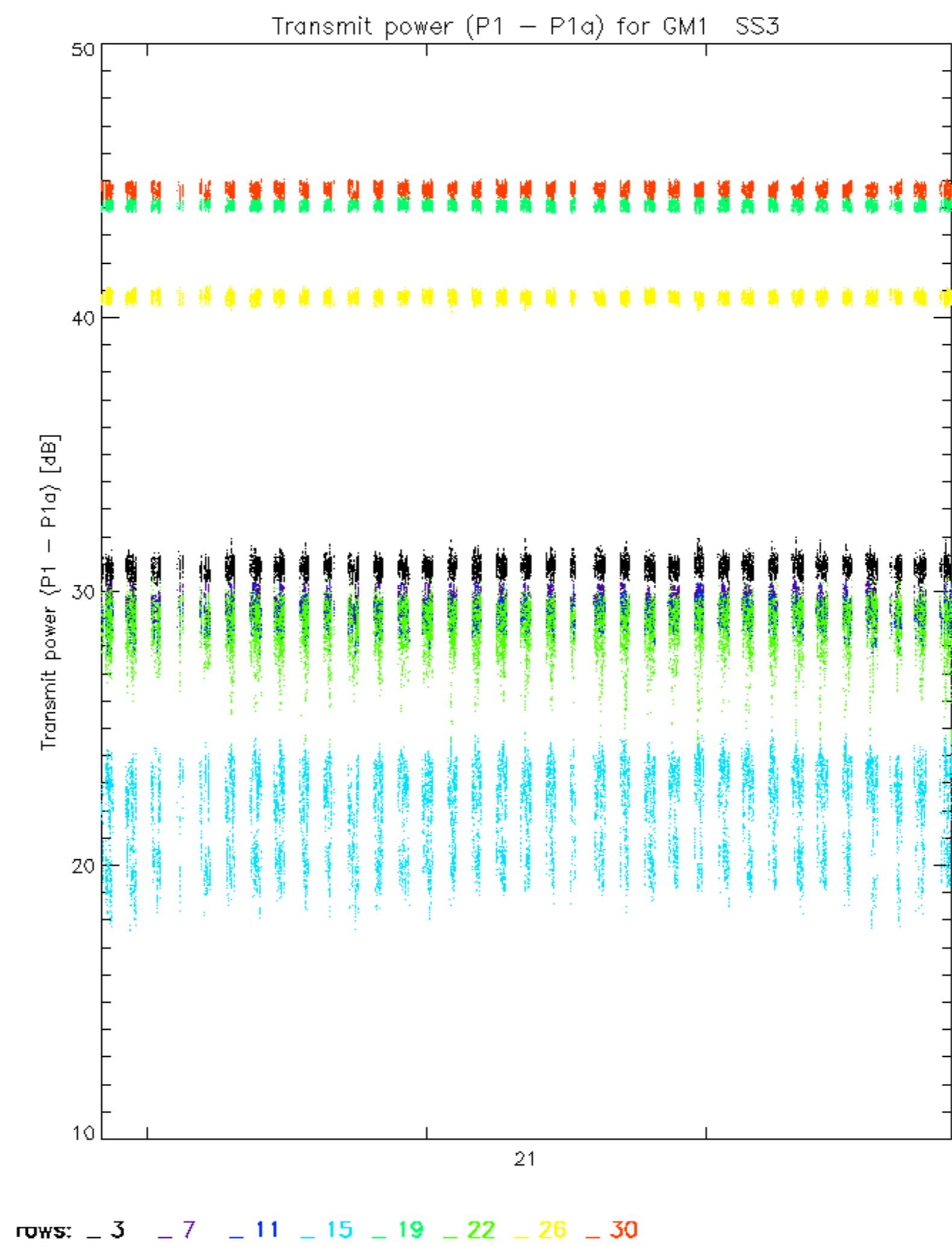


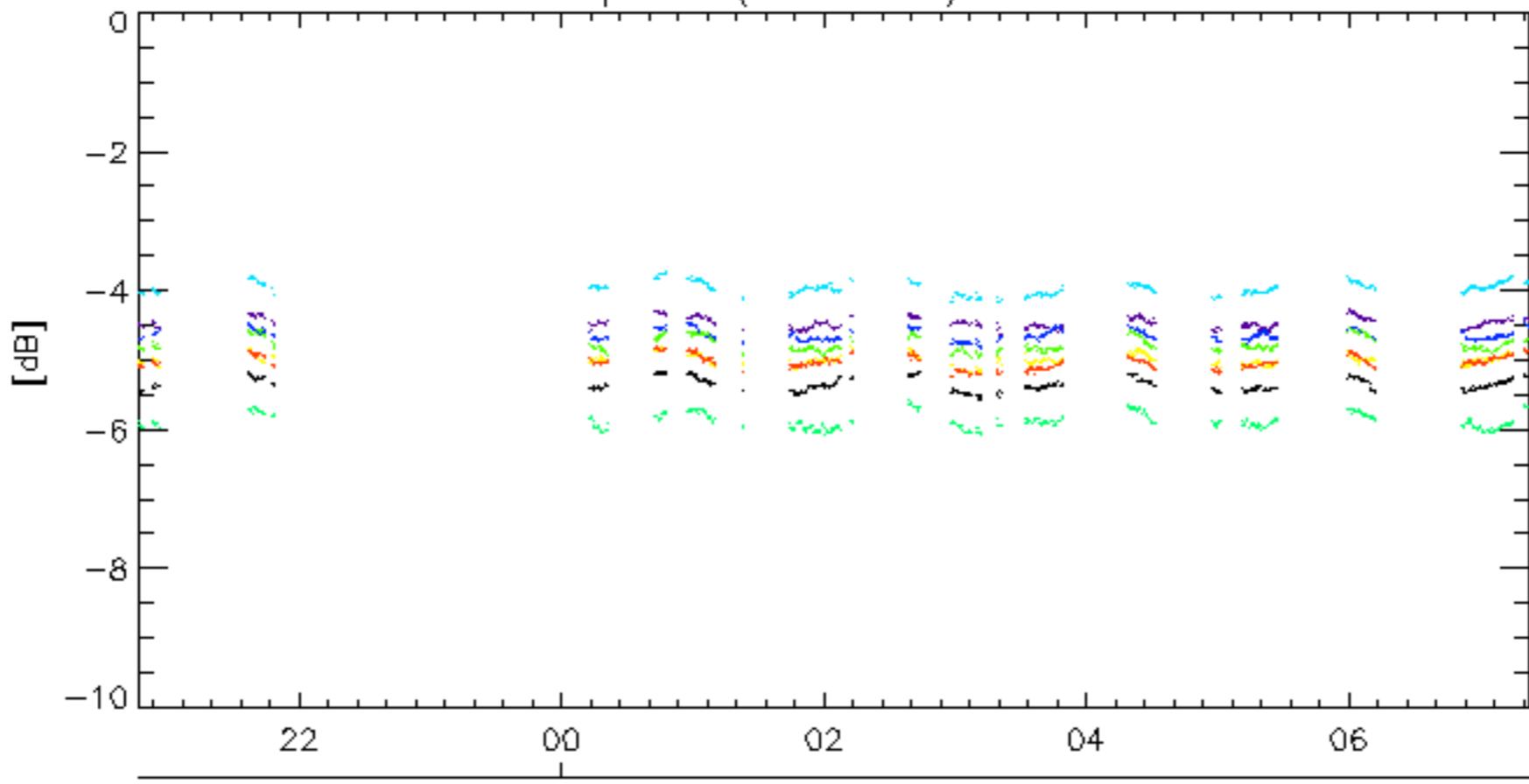
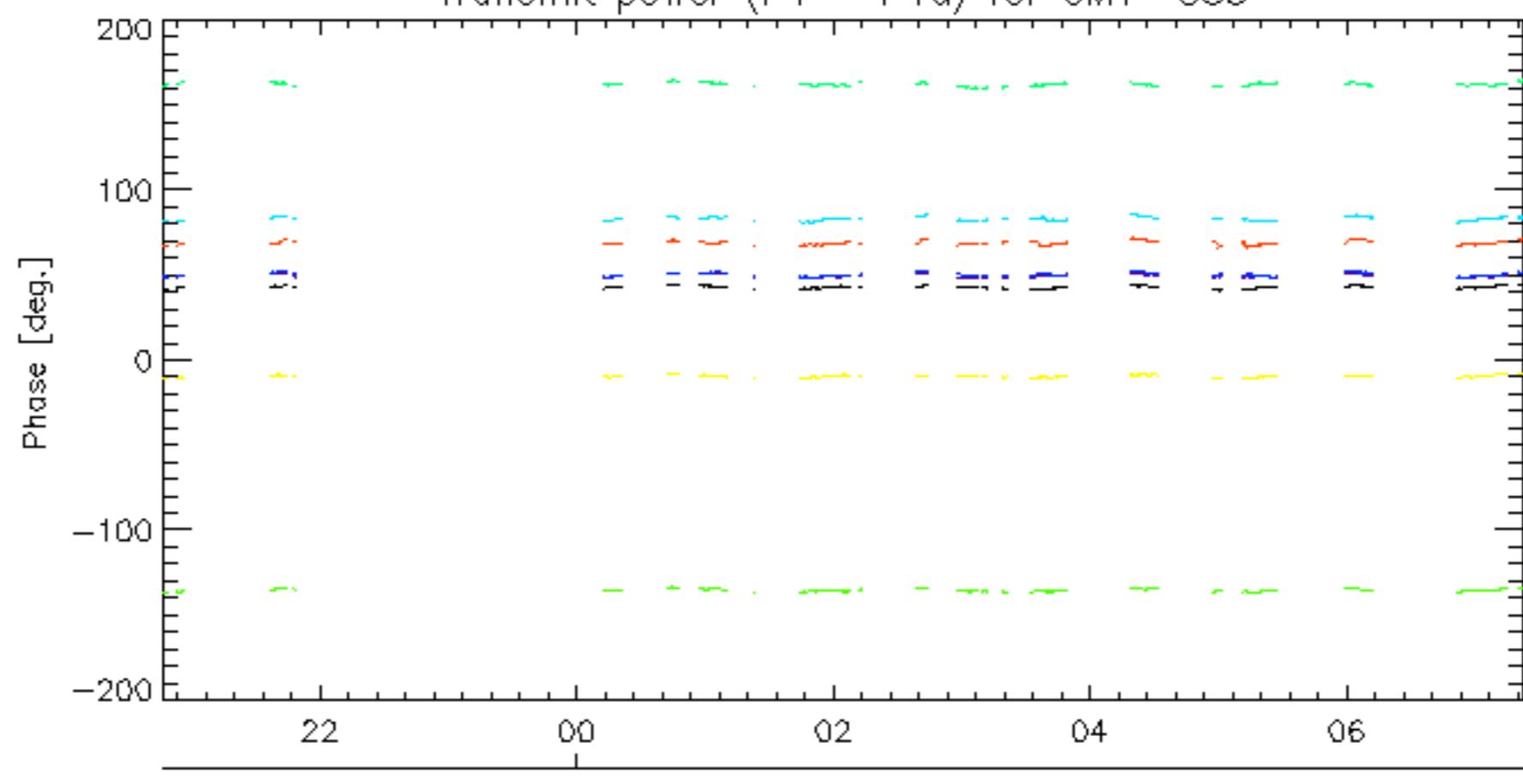






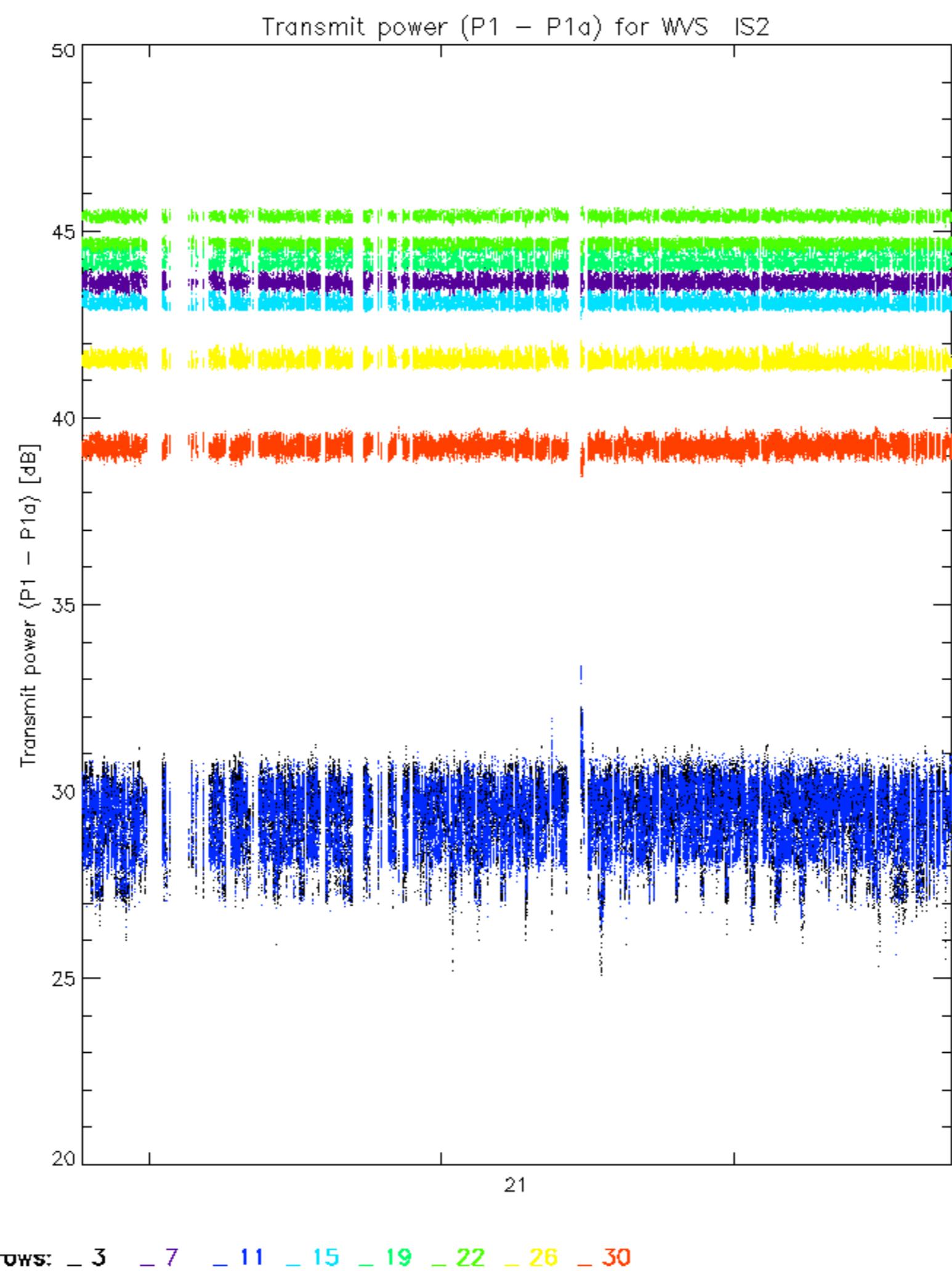


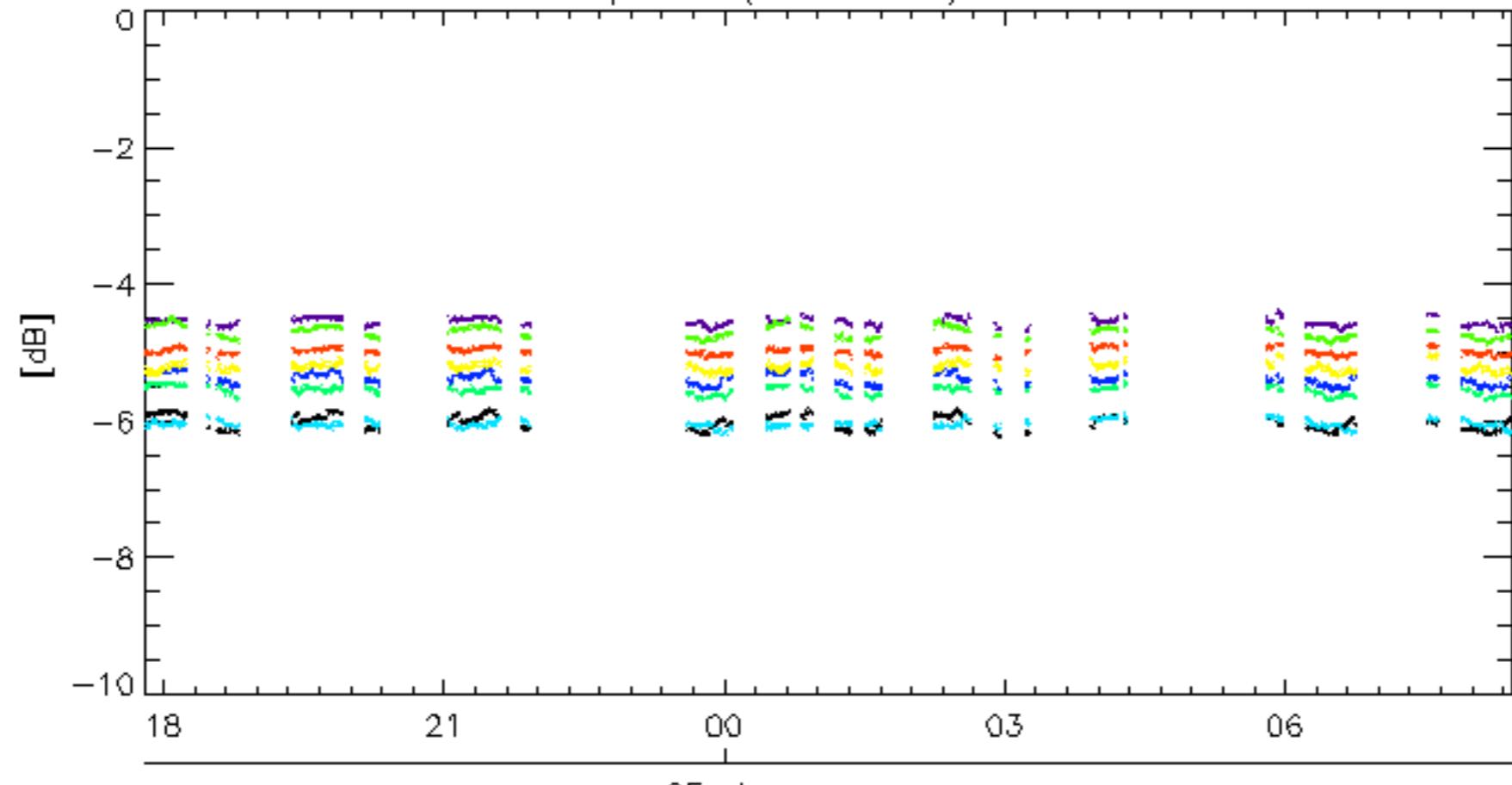
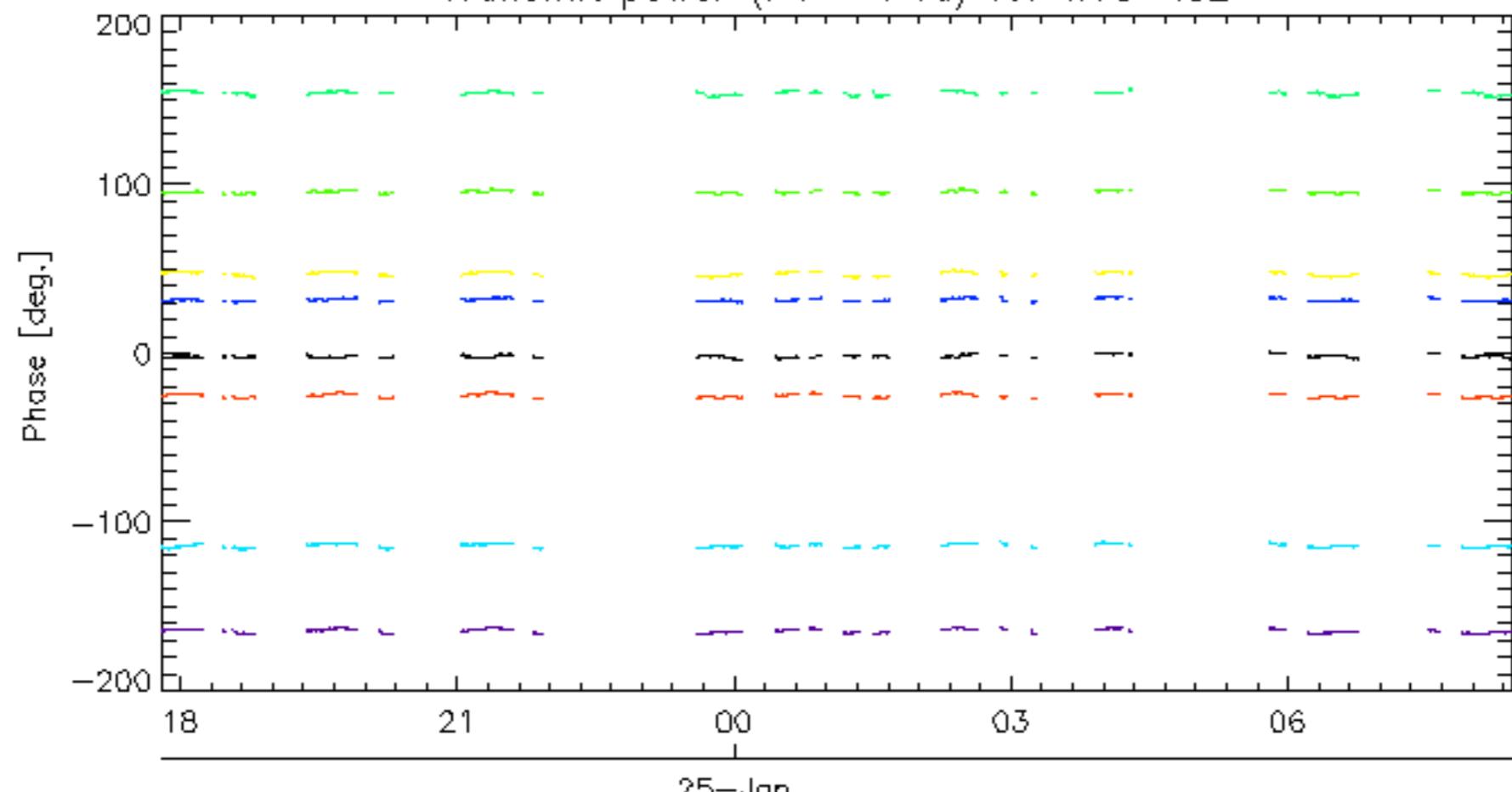


Transmit power ( $P_1 - P_{1a}$ ) for GM1 SS325-Jan  
Transmit power ( $P_1 - P_{1a}$ ) for GM1 SS3

25-Jan

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



Transmit power ( $P_1 - P_{1a}$ ) for WVS IS225-Jan  
Transmit power ( $P_1 - P_{1a}$ ) for WVS IS2

25-Jan

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

No unavailabilities during the reported period.

