PRELIMINARY REPORT OF 060714

last update on Fri Jul 14 16:21:17 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 2006-07-13 00:00:00 to 2006-07-14 16:21:17

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	38	72	12	5	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	38	72	12	5	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	38	72	12	5	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	38	72	12	5	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	34	61	24	15	71
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	34	61	24	15	71
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	34	61	24	15	71
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	34	61	24	15	71

2.3 - Browse Visual Inspection

No anomalies observed on available browse products

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	20060712 043739
H	20060713 040602

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	-3.928893	0.013252	-0.012839
7	P1	-3.103418	0.009856	-0.027210
11	P1	-4.086431	0.013492	-0.001089
15	P1	-6.174435	0.011671	-0.042968
19	P1	-3.391565	0.009400	-0.049801
22	P1	-4.541624	0.010229	0.006396
26	P1	-3.934098	0.019819	0.027675
30	P1	-5.763523	0.007956	-0.026011
3	P1	-16.505583	0.367693	-0.068246
7	P1	-17.190945	0.099819	-0.114497
11	P1	-16.988987	0.277190	-0.148046
15	P1	-13.121265	0.157969	-0.038719
19	P1	-14.435600	0.048075	-0.164131
22	P1	-16.012241	0.417489	0.109639
26	P1	-15.135986	0.241036	0.109193
30	P1	-17.093887	0.341221	-0.075610

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.000370	0.087719	0.132650
7	P2	-21.927973	0.105126	0.097497
11	P2	-15.804832	0.122135	0.052324
15	P2	-7.134394	0.102219	0.009309
19	P2	-9.137105	0.090980	-0.026723
22	P2	-18.151041	0.085835	-0.019869
26	P2	-16.398010	0.093759	-0.050919
30	P2	-19.529392	0.094294	0.033772

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.175157	0.002929	0.005019
7	P3	-8.175157	0.002929	0.005019
11	P3	-8.175157	0.002929	0.005019
15	P3	-8.175157	0.002929	0.005019
19	P3	-8.175157	0.002929	0.005019
22	P3	-8.175157	0.002929	0.005019
26	P3	-8.175157	0.002929	0.005019
30	P3	-8.175157	0.002929	0.005019

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	-3.794228	0.035288	-0.138751
7	P1	-2.564202	0.007914	0.000455
11	P1	-2.861428	0.014658	0.006636
15	P1	-3.564143	0.028786	-0.066988
19	P1	-3.416288	0.013532	-0.016115
22	P1	-5.094396	0.020418	0.013120
26	P1	-5.856198	0.015906	0.004228
30	P1	-5.192956	0.026408	-0.045659
3	P1	-11.576558	0.111425	-0.216257
7	P1	-9.976922	0.033891	-0.008747
11	P1	-10.248379	0.059189	0.020017
15	P1	-10.757564	0.141436	-0.060242
19	P1	-15.527935	0.074924	-0.026125
22	P1	-20.922123	1.218915	-0.178969

26	P1	-16.340923	0.378067	0.062051
30	P1	-17.882128	0.408819	-0.039532

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.656862	0.071523	0.168547
7	P2	-22.423300	0.129758	0.084401
11	P2	-11.063986	0.042804	0.080450
15	P2	-4.918468	0.046638	0.020633
19	P2	-6.880732	0.042568	0.006653
22	P2	-8.199512	0.037921	0.028777
26	P2	-24.191036	0.064297	-0.022299
30	P2	-22.023314	0.050237	0.040792

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.015931	0.003738	0.009000
7	P3	-8.015882	0.003738	0.010725
11	P3	-8.015754	0.003755	0.009754
15	P3	-8.015841	0.003741	0.010605
19	P3	-8.015879	0.003741	0.010304
22	P3	-8.015891	0.003742	0.009917
26	P3	-8.015814	0.003741	0.010437
30	P3	-8.015850	0.003729	0.010809

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	0.000569725
	stdev	1.63797e-07
MEAN Q	mean	0.000544522
	stdev	2.11063e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.138385
	stdev	0.00108504
STDEV Q	mean	0.138745
	stdev	0.00110323

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006071[234]
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_1PNPDE20060714_004241_000001742049_00245_22844_0772.N1	1	0
ASA_IMM_1PNPDE20060714_005914_000000452049_00246_22845_0771.N1	1	0
ASA_WSM_1PNPDE20060712_005610_000000852049_00217_22816_2627.N1	0	33
ASA_WSM_1PNPDE20060712_015512_000000852049_00218_22817_2628.N1	0	54
ASA_WSM_1PNPDE20060712_041730_000000672049_00219_22818_2642.N1	0	69

ASA_WSM_1PNPDE20060712_165619_000001592049_00227_22826_2716.N1	0	59
ASA_WSM_1PNPDE20060713_162646_000001032049_00241_22840_2889.N1	0	38
ASA_WSM_1PNPDE20060713_230852_000001032049_00245_22844_2962.N1	0	55
ASA_WSM_1PNPDE20060713_235456_000003302049_00245_22844_2976.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

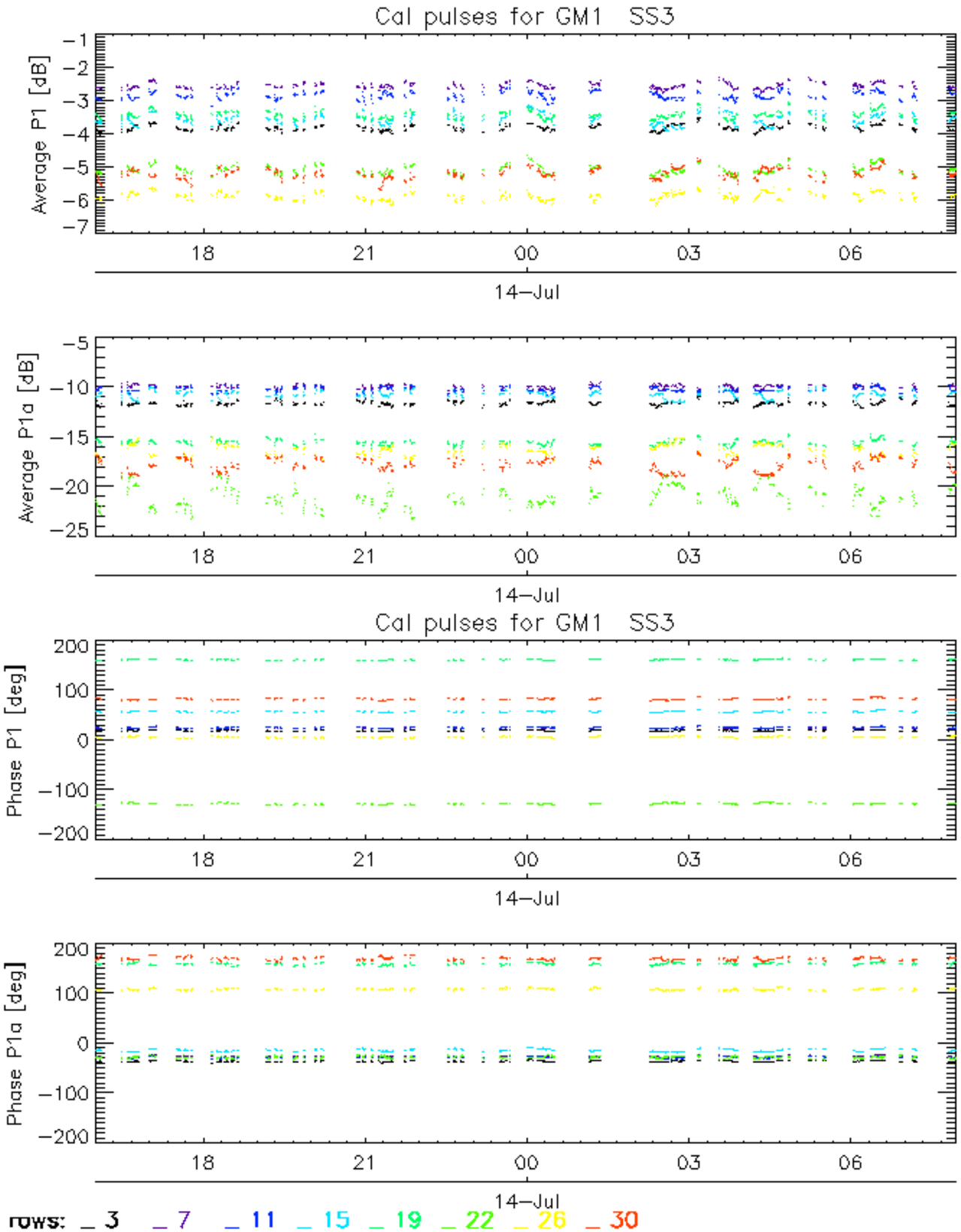
Evolution of Absolute Doppler

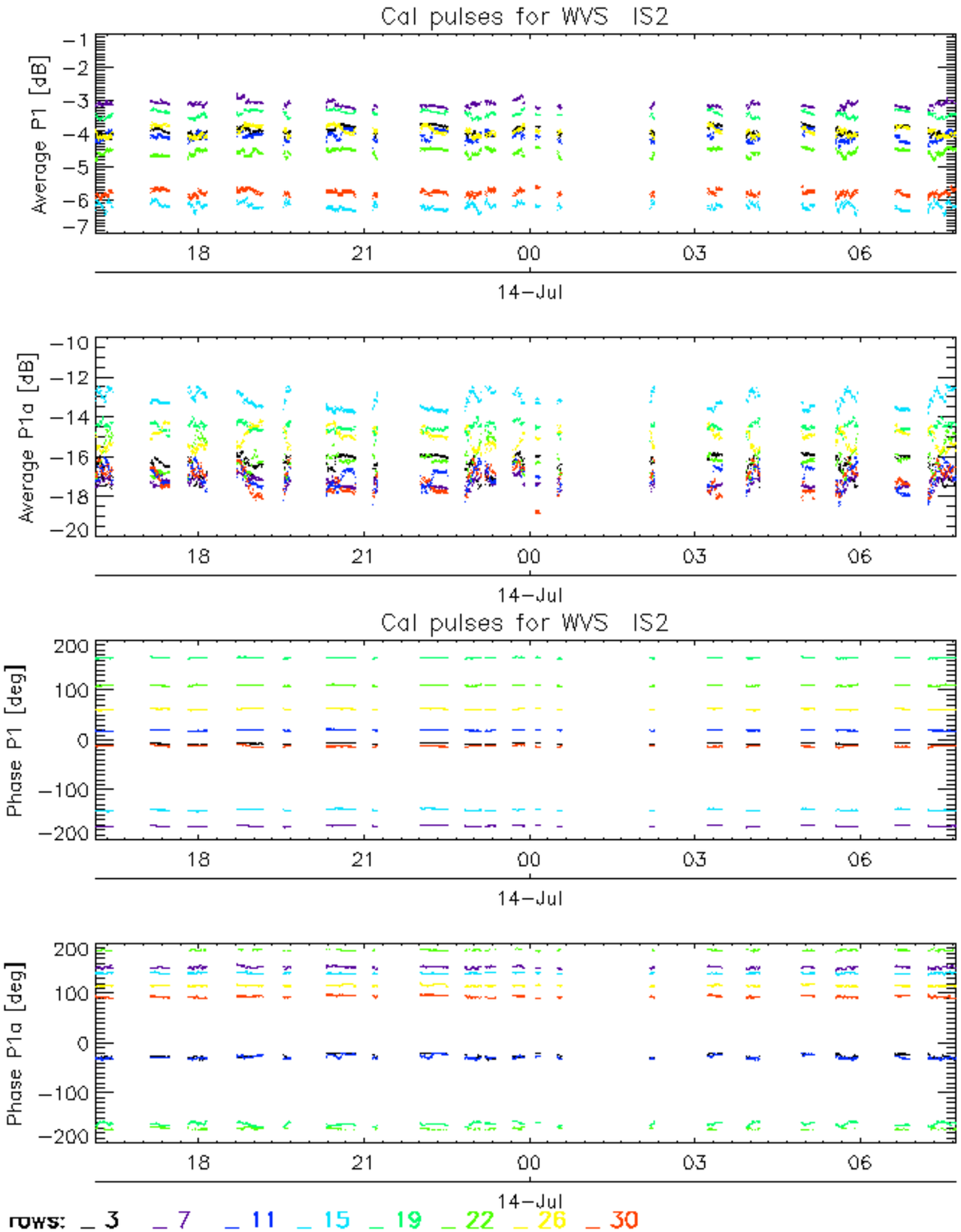
Acsending

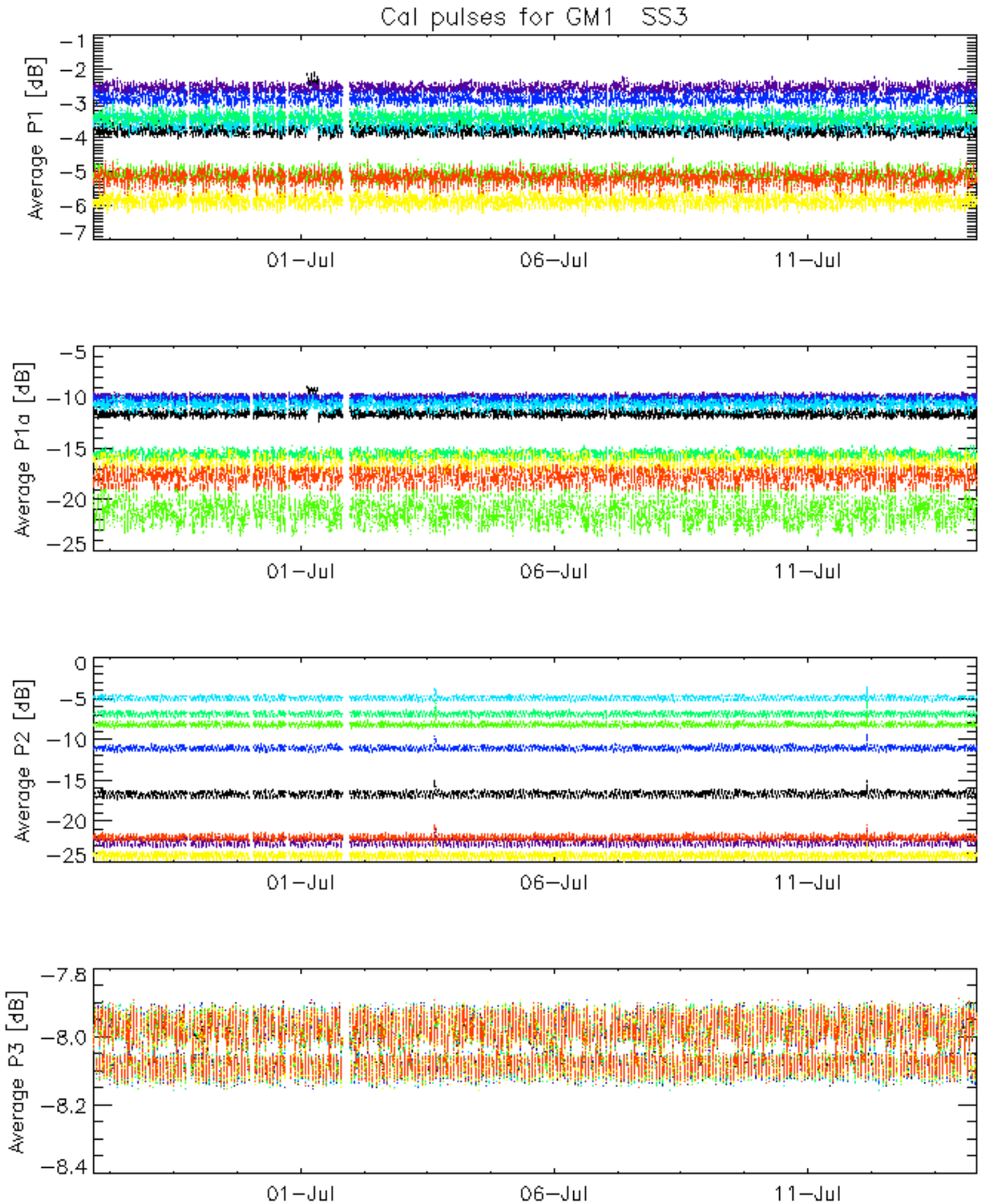
Descending

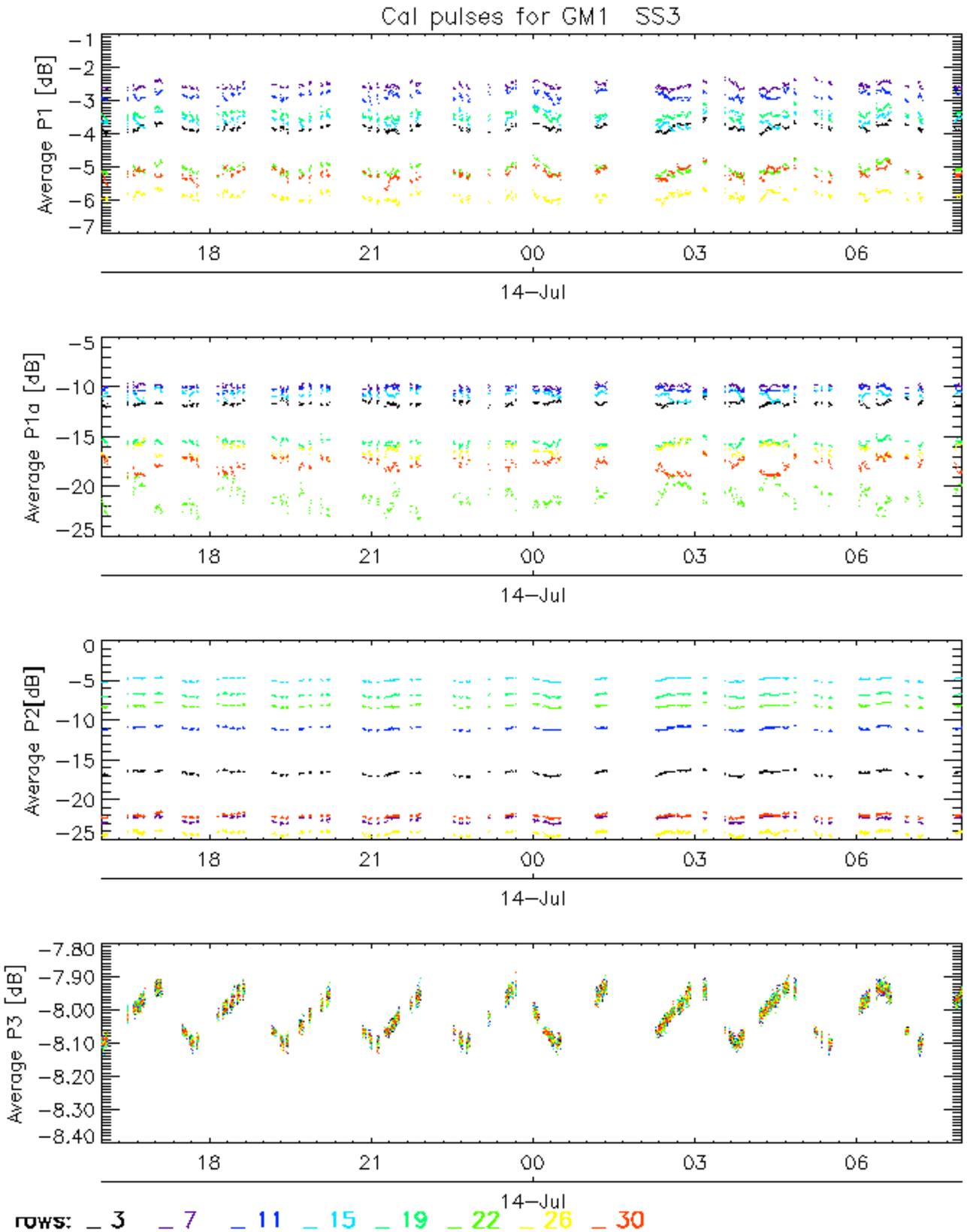
7.6 - Doppler evolution versus ANX for GM1

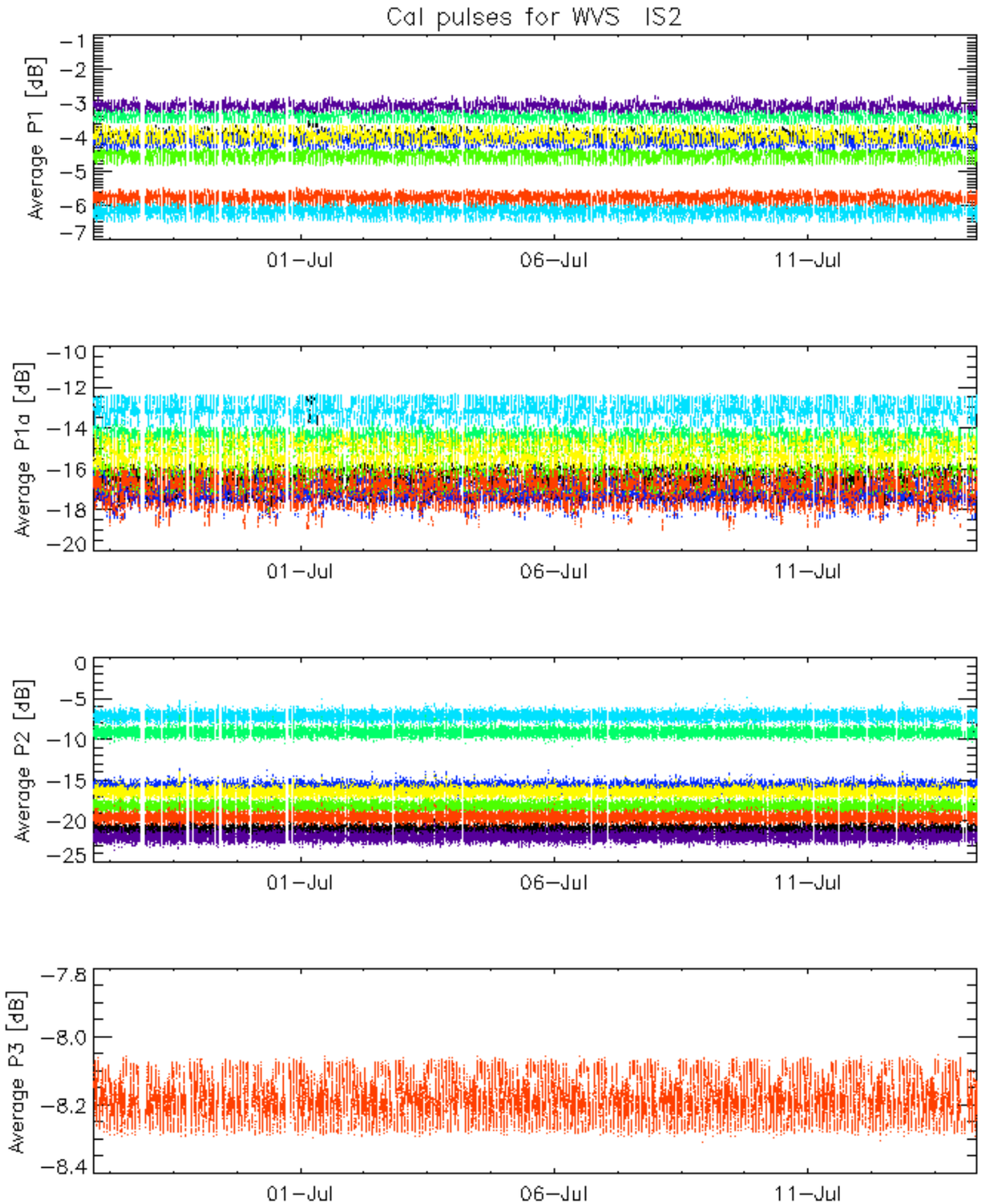
Evolution Doppler error versus ANX

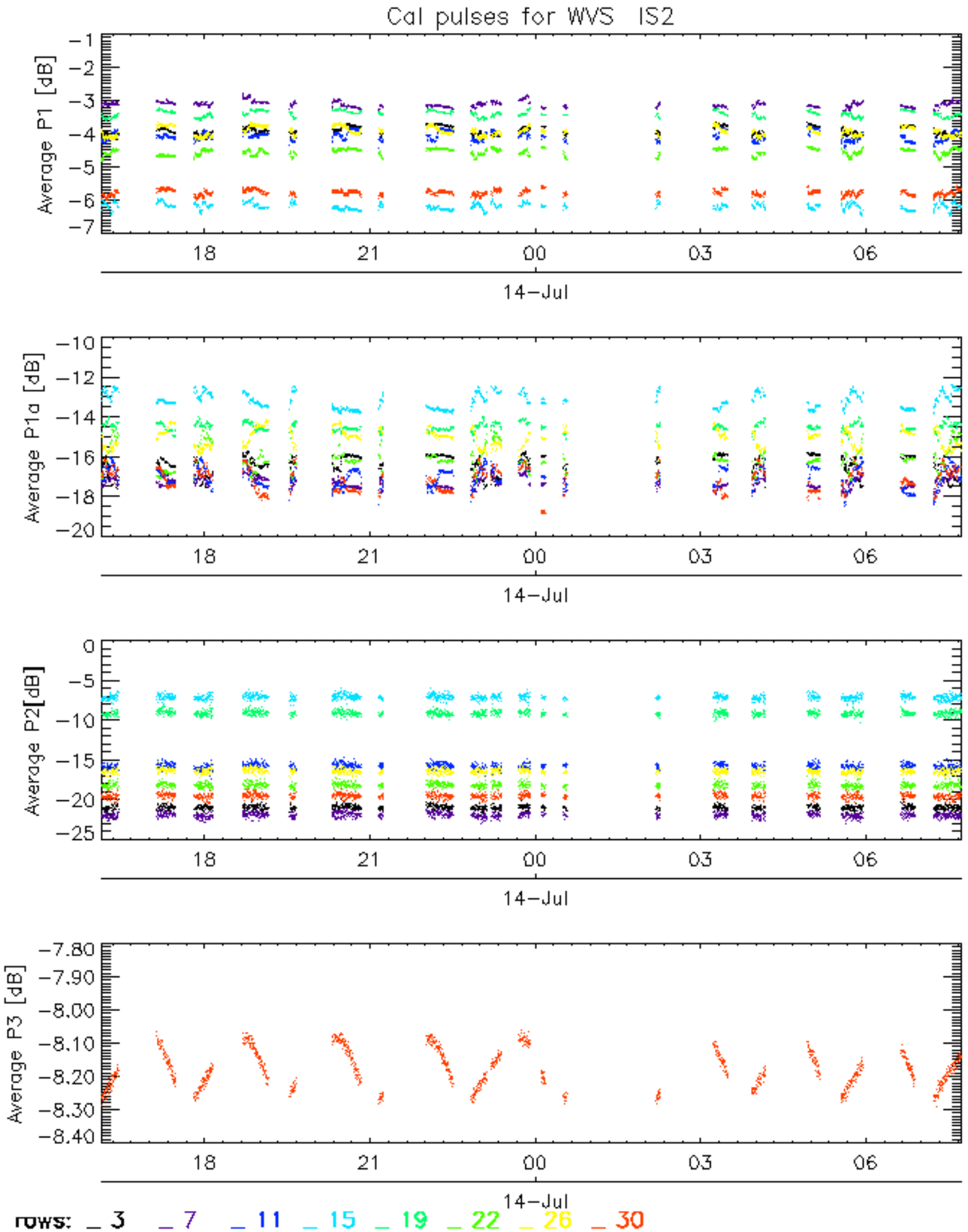


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
14−Jul
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
14−Jul
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
14−Jul
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
14−Jul
rows: _ 3 _ 7 _ 11 _ 15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


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


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
01−Jul
06−Jul
11−Jul
Average P1a [dB]
−5
−10
−15
−20
−25
01−Jul
06−Jul
11−Jul
Average P2 [dB]
0
−5
−10
−15
−20
−25
01−Jul
06−Jul
11−Jul
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
01−Jul
06−Jul
11−Jul
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

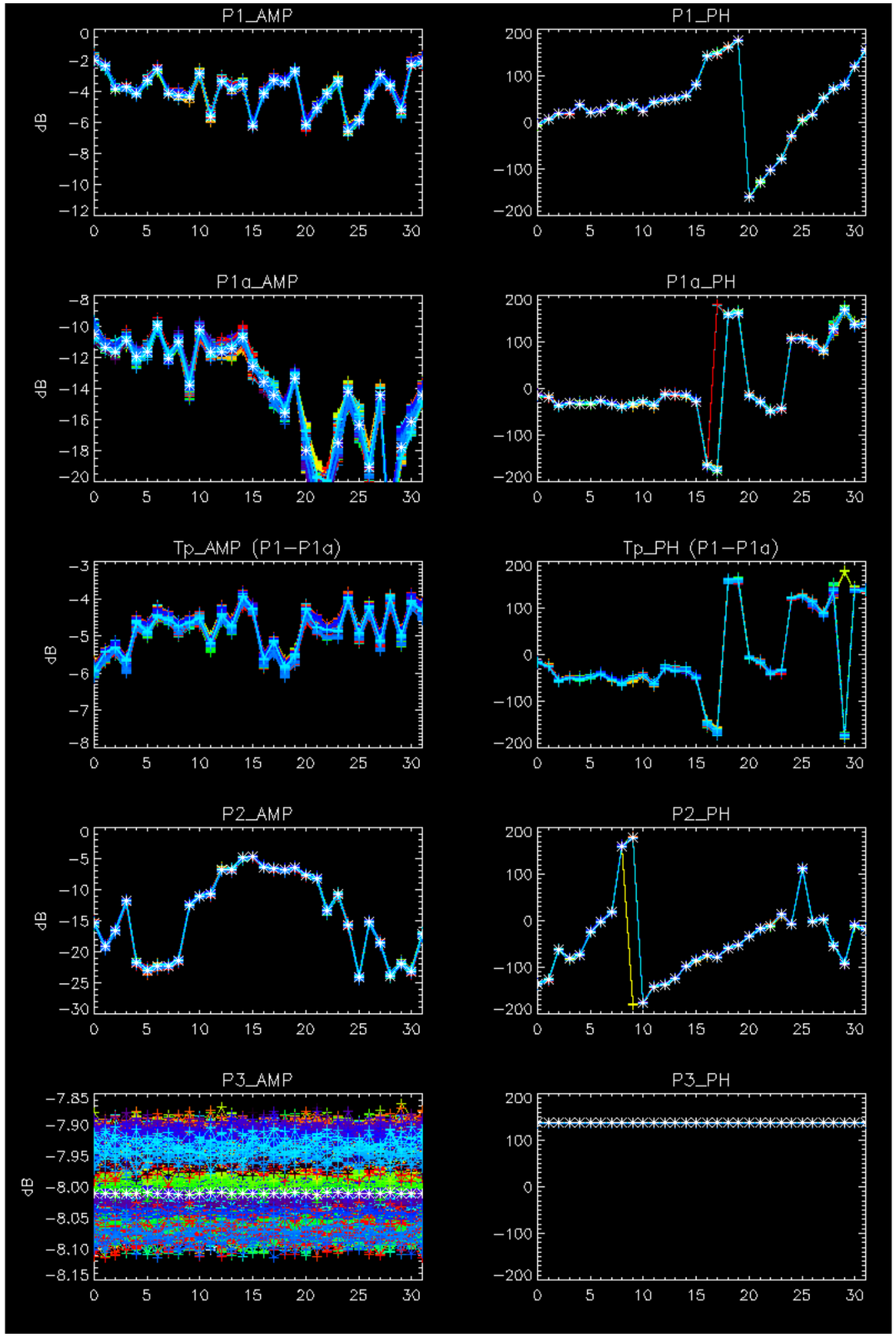

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
14−Jul
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
14−Jul
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
14−Jul
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
14−Jul
rows: _ 3 _ 7 _ 11 _ 15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

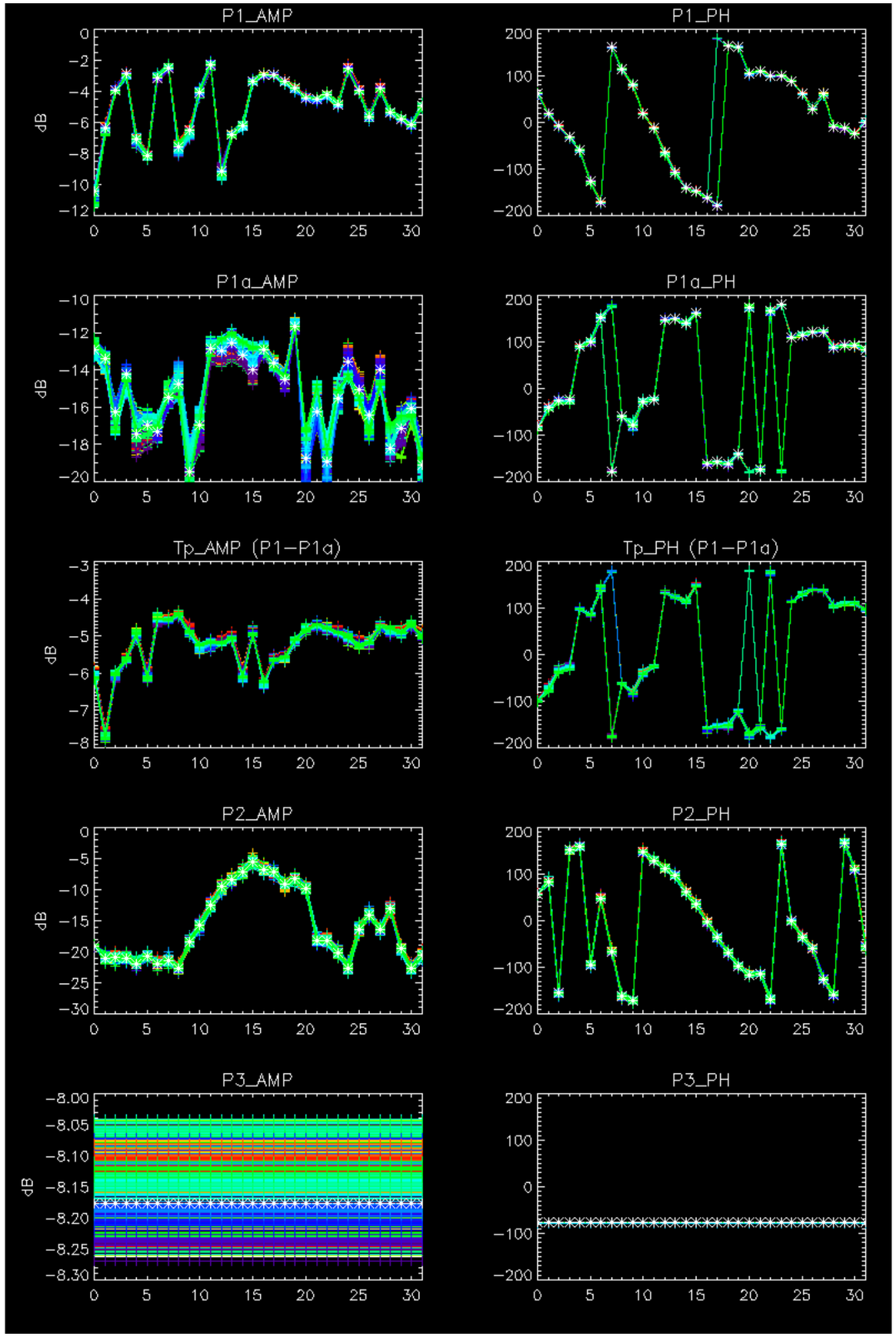

Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
01−Jul
06−Jul
11−Jul
Average P1a [dB]
−10
−12
−14
−16
−18
−20
01−Jul
06−Jul
11−Jul
Average P2 [dB]
0
−5
−10
−15
−20
−25
01−Jul
06−Jul
11−Jul
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
01−Jul
06−Jul
11−Jul
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
14−Jul
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
14−Jul
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
14−Jul
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
14−Jul
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

No anomalies observed on available browse products

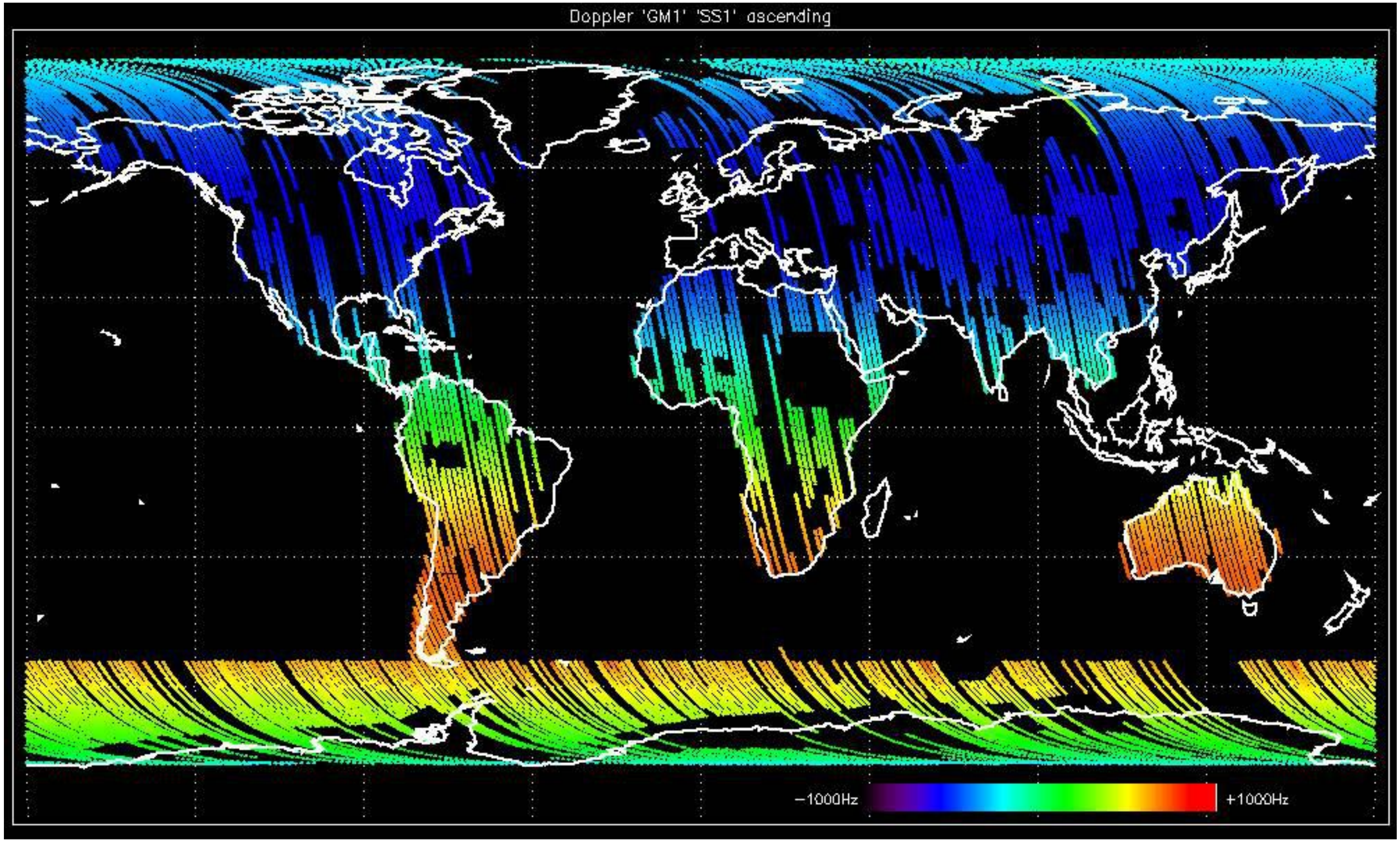
No anomalies observed.

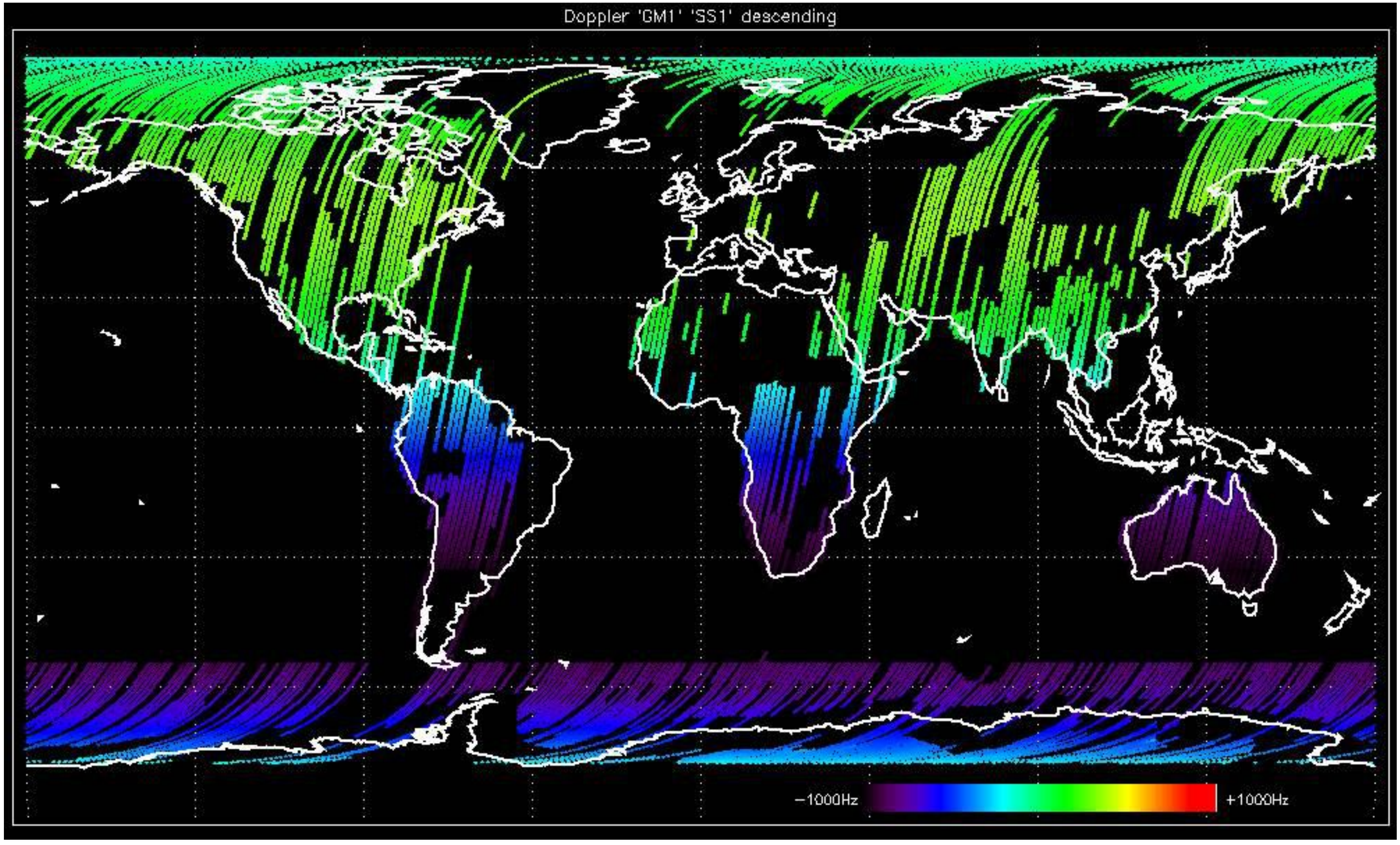

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

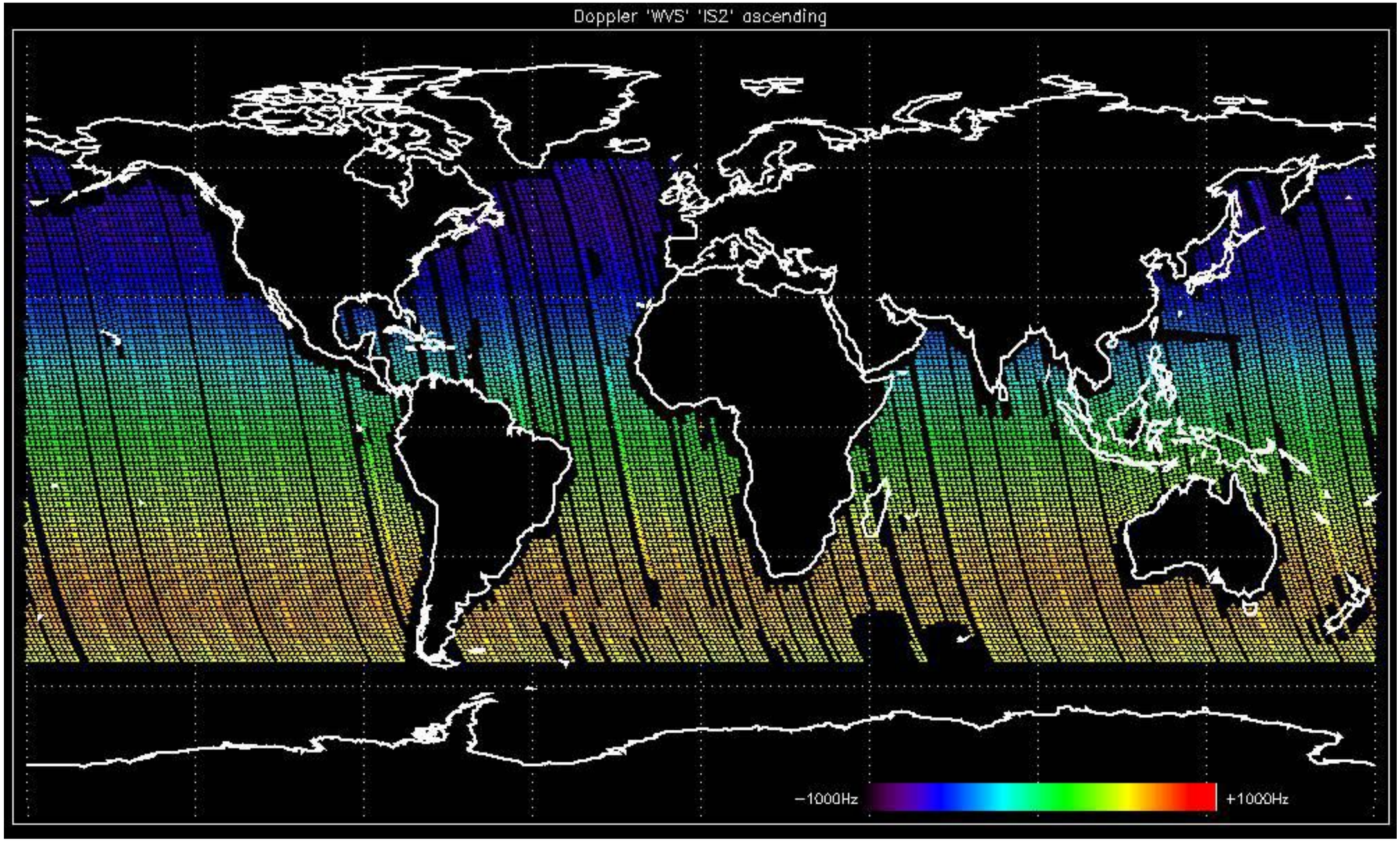

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

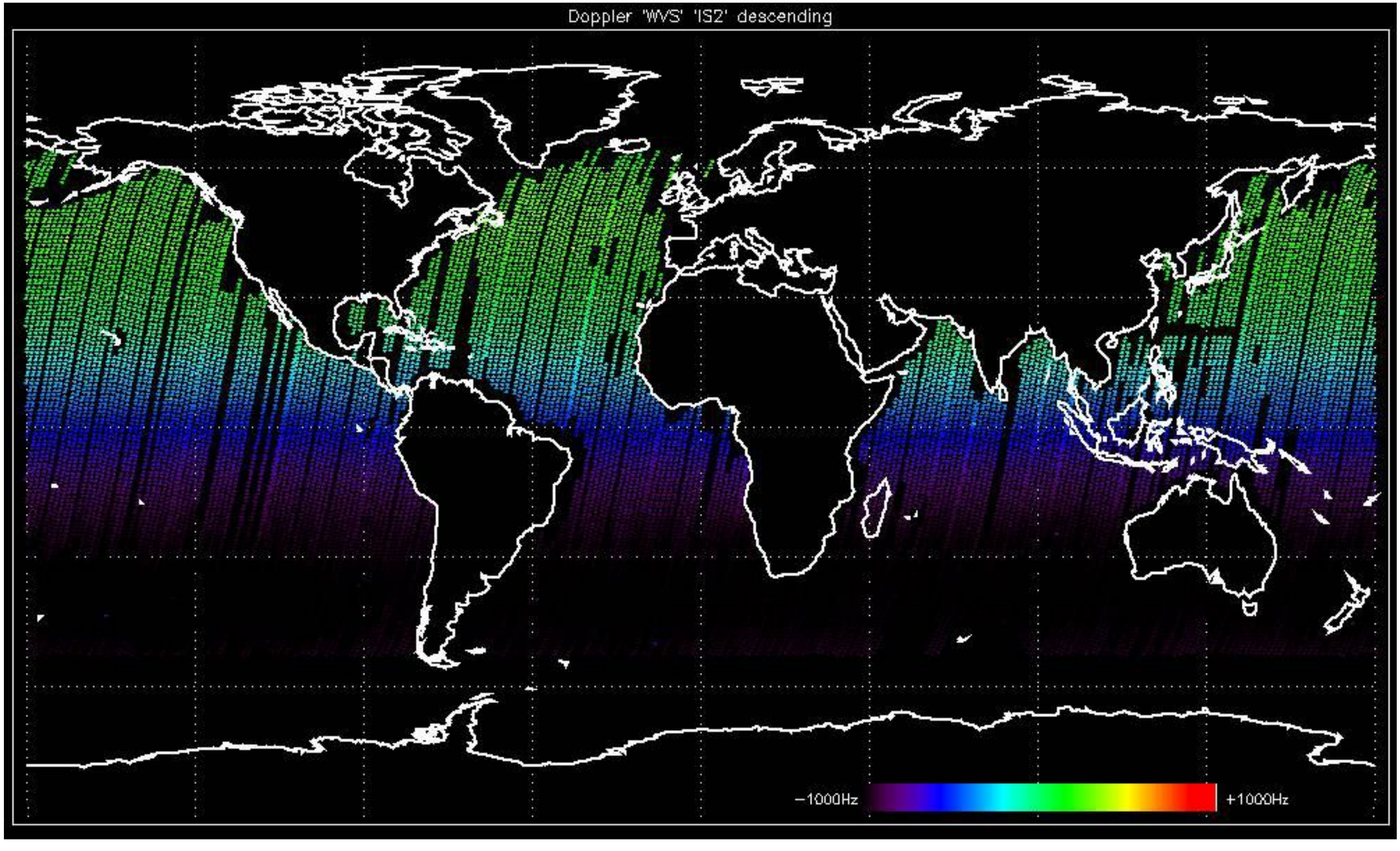
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

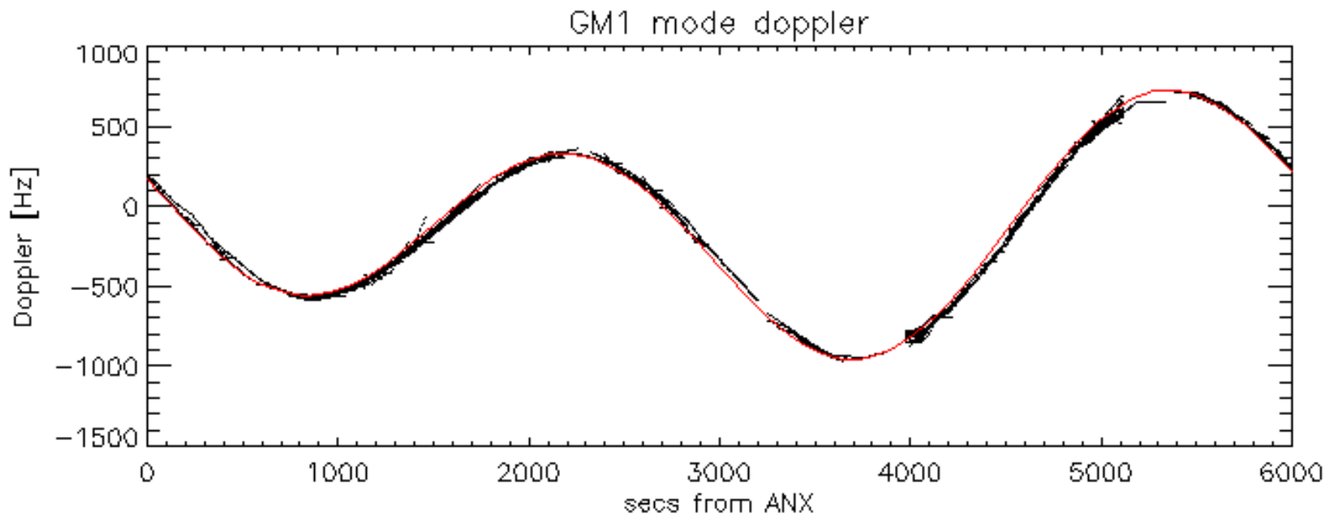
Preliminary report.The data is not yet controled

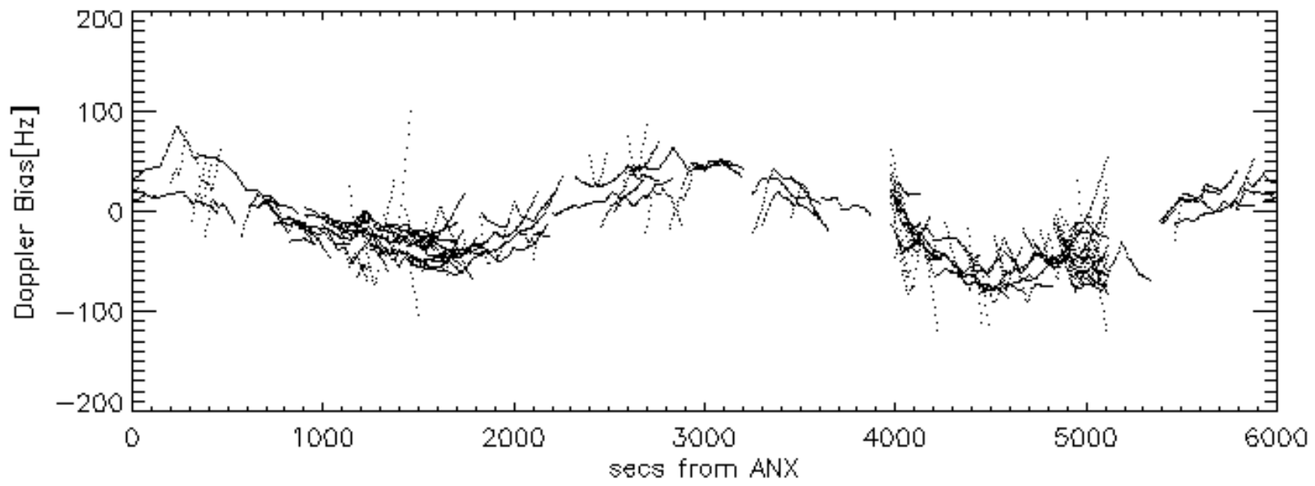

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

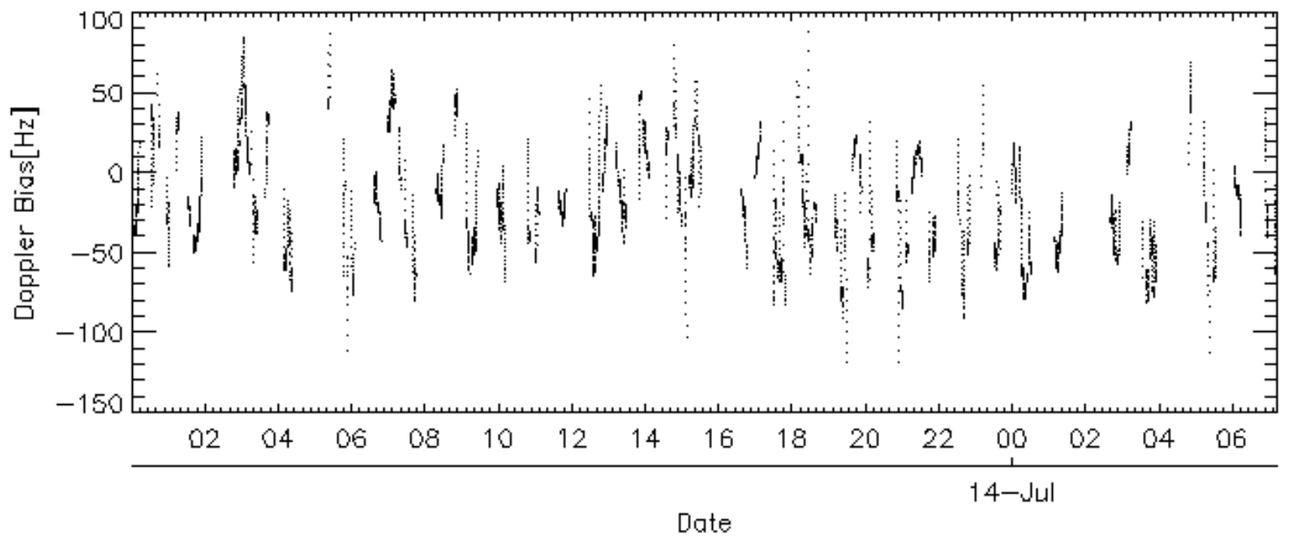

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

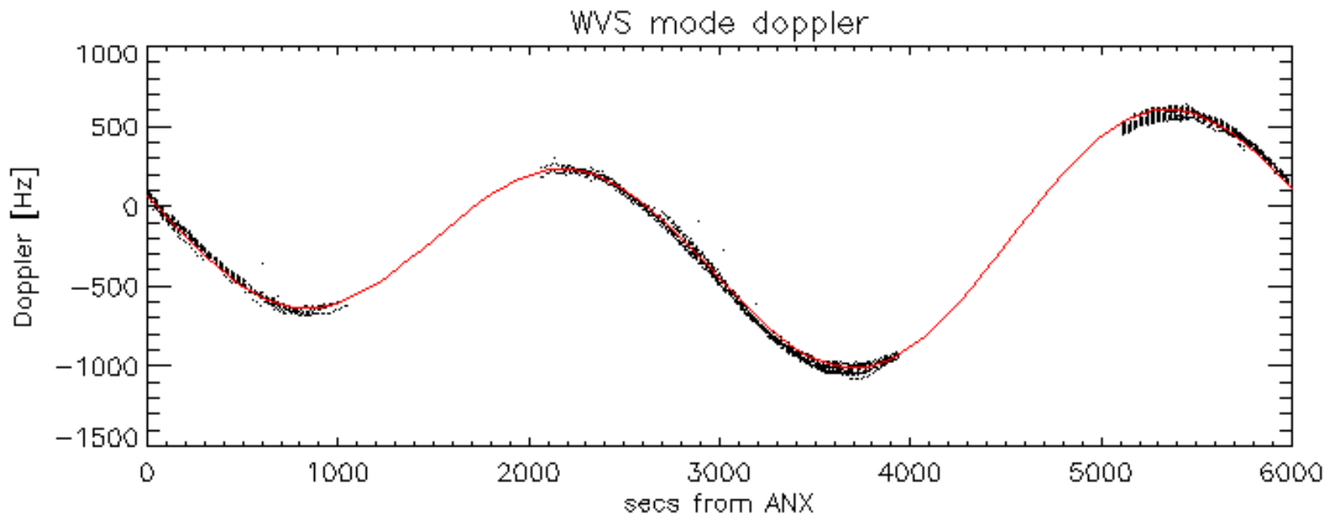

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

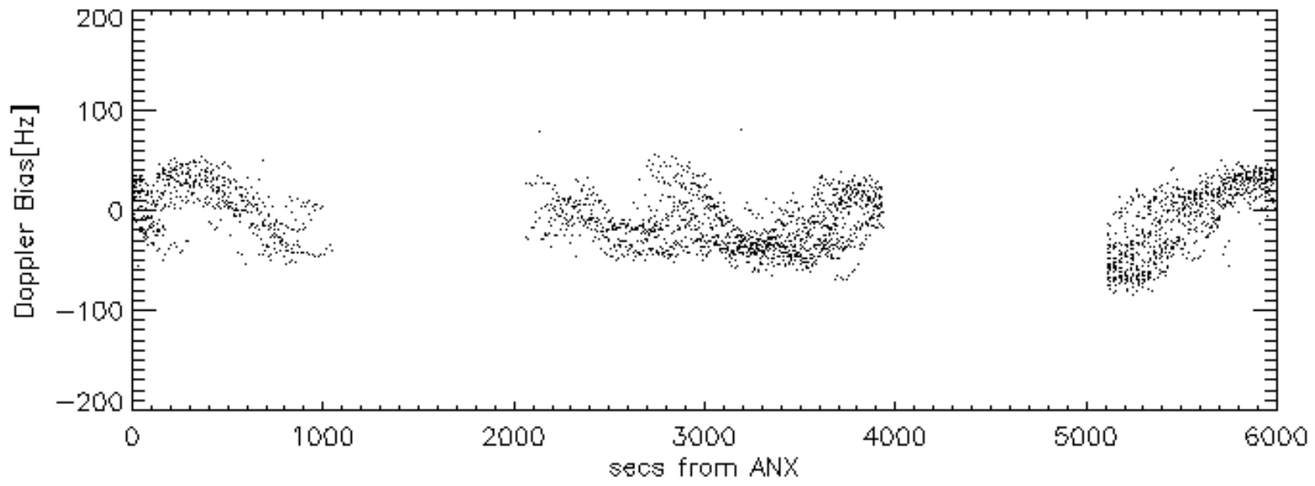

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

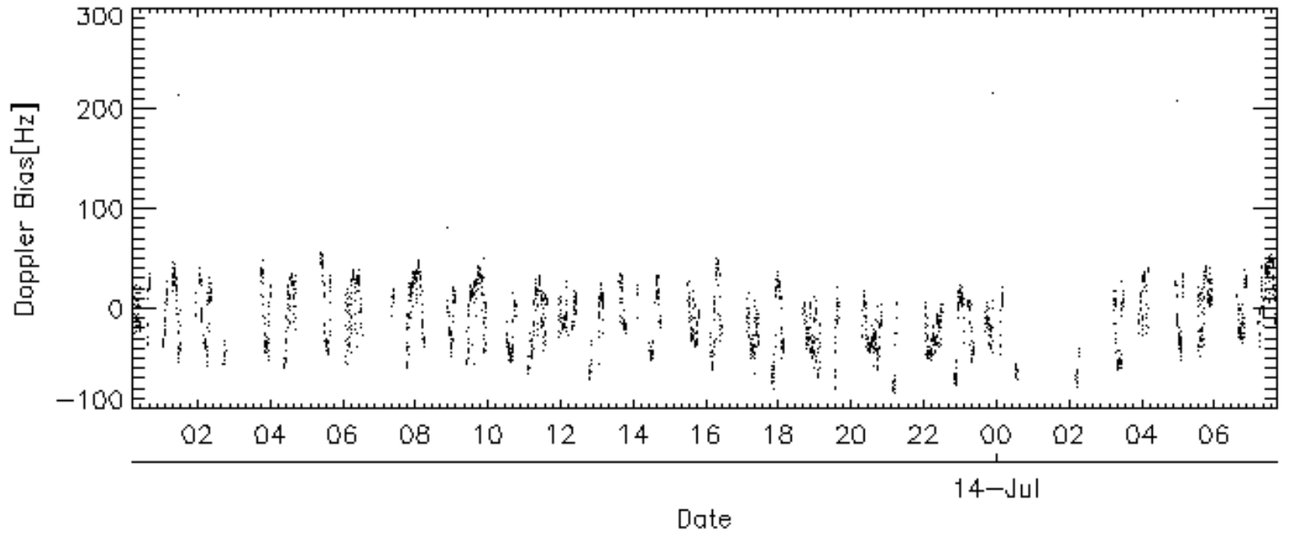

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

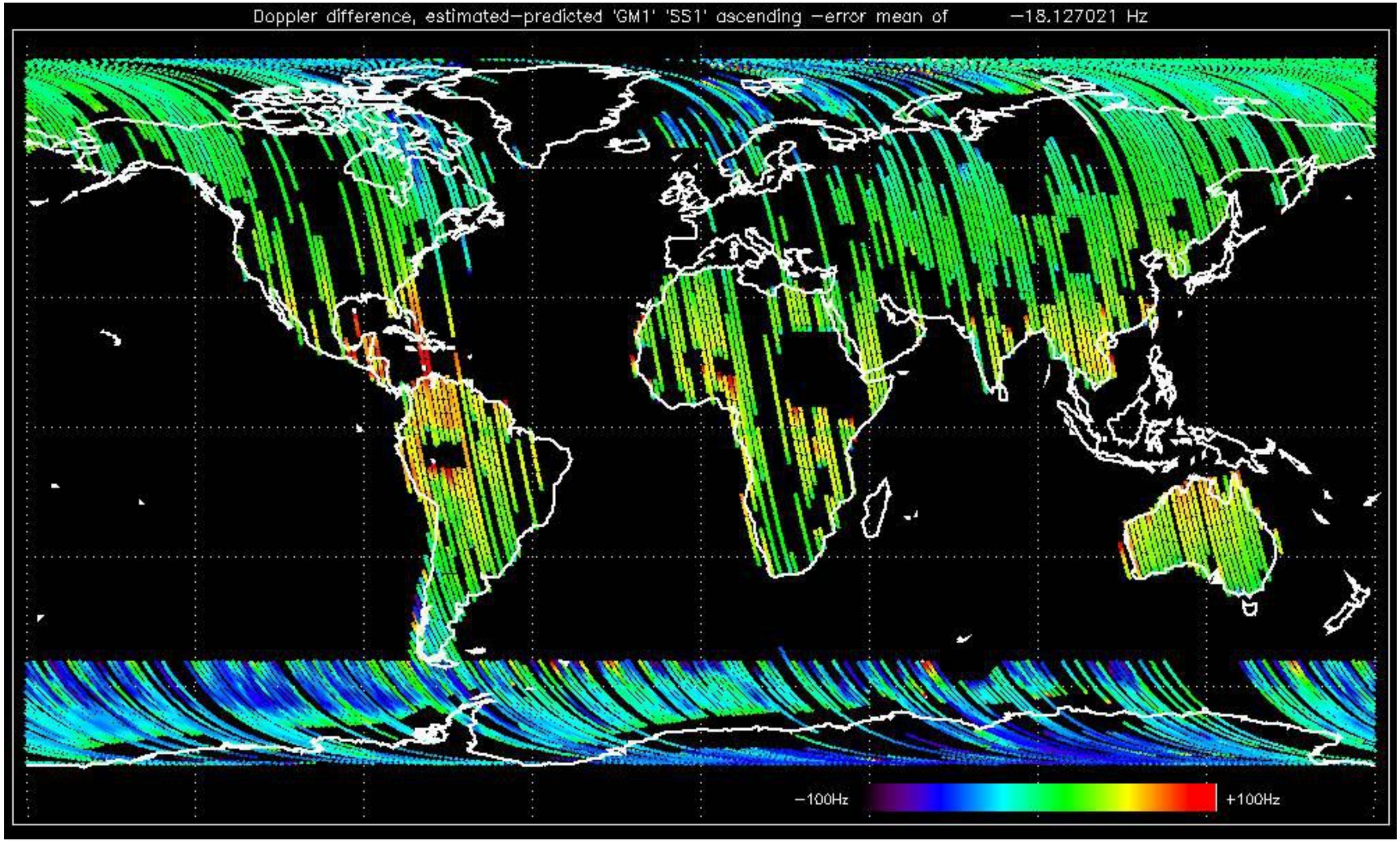

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

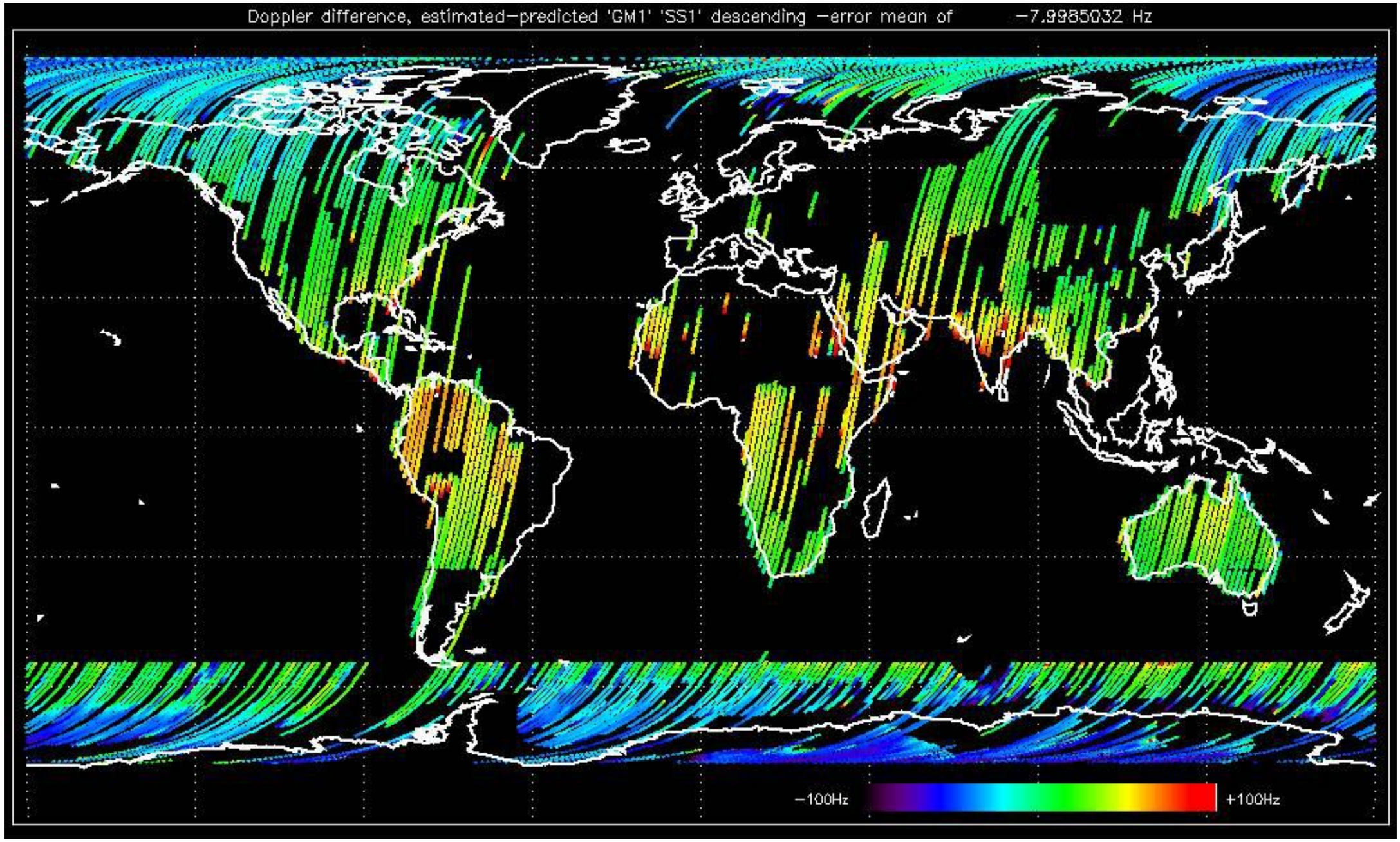

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
14−Jul
Date

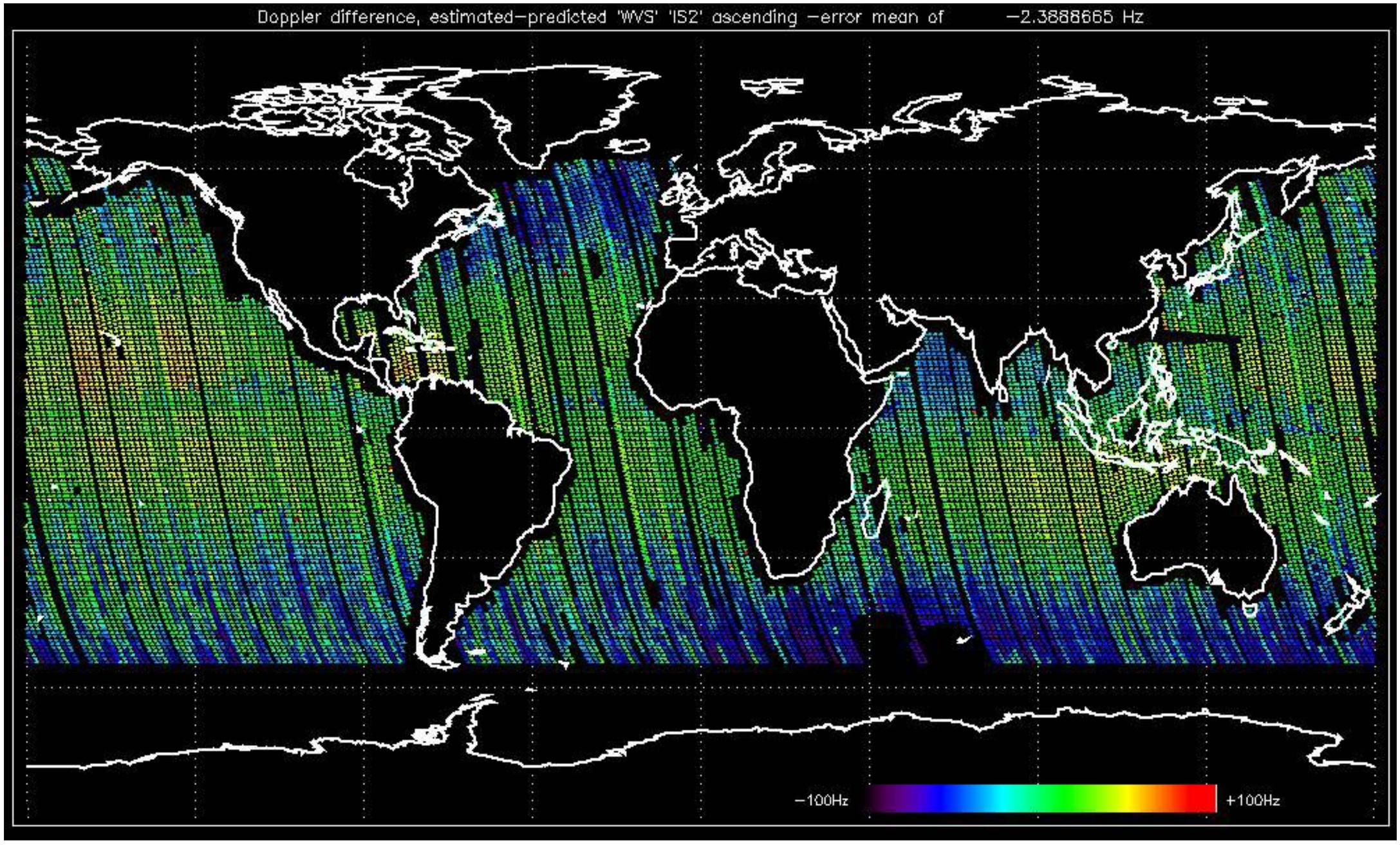

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

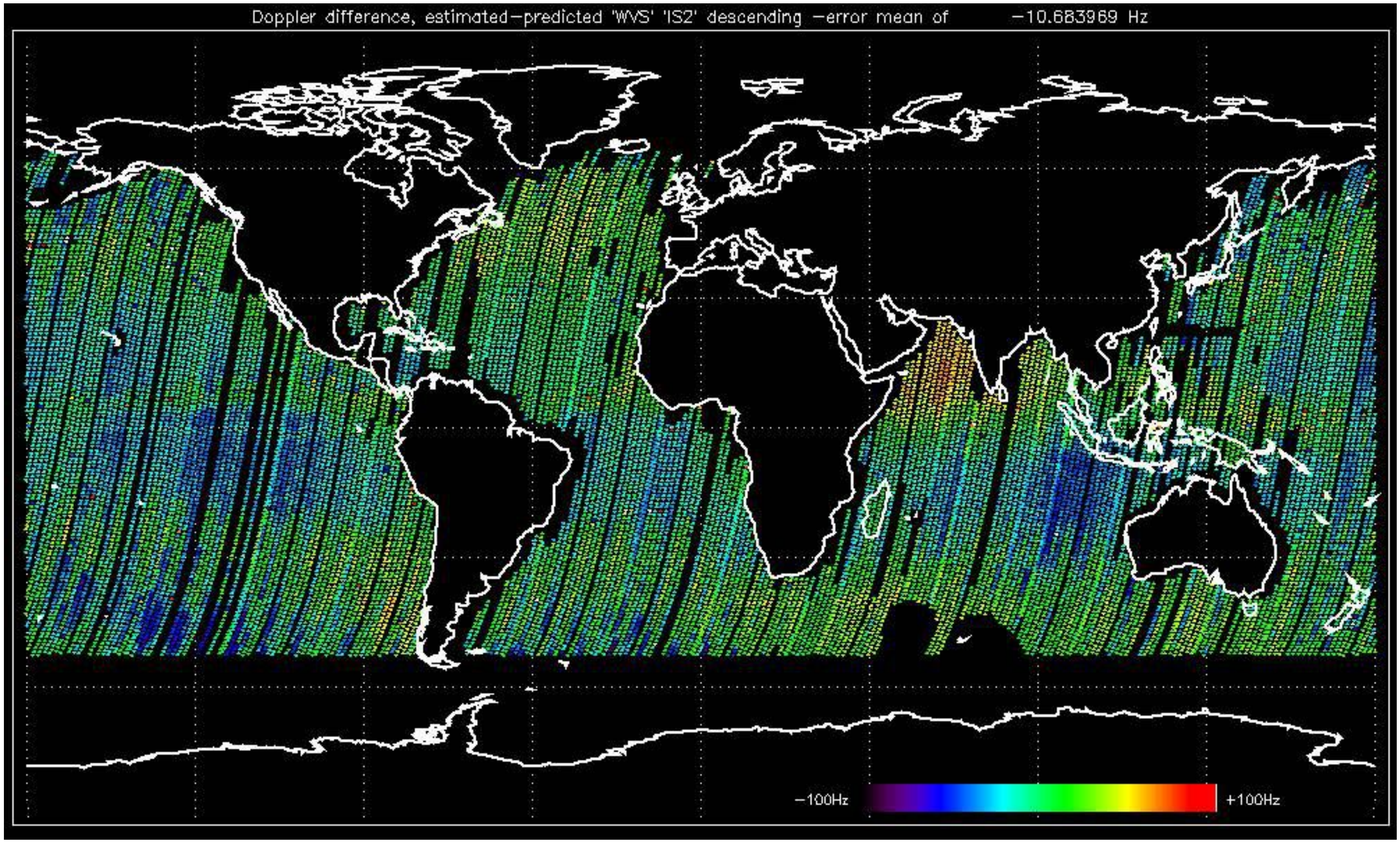

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.127021 Hz
−100Hz
+100Hz

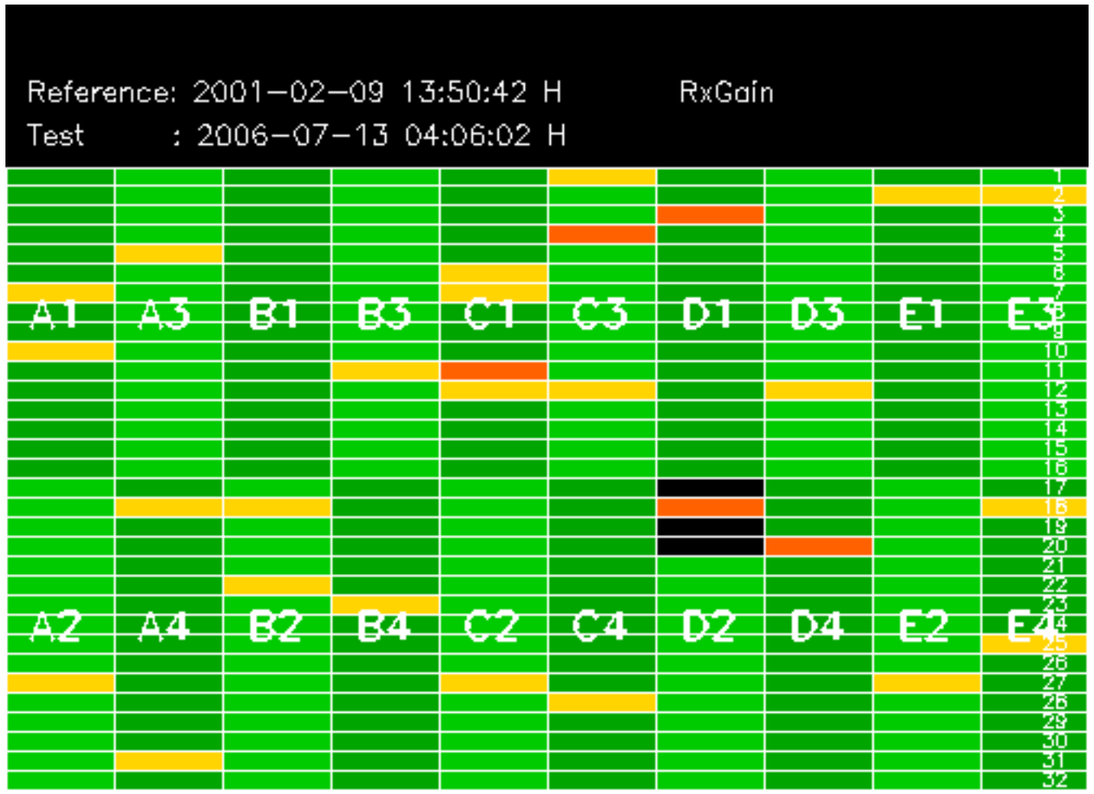

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −7.9985032 Hz
−100Hz
+100Hz

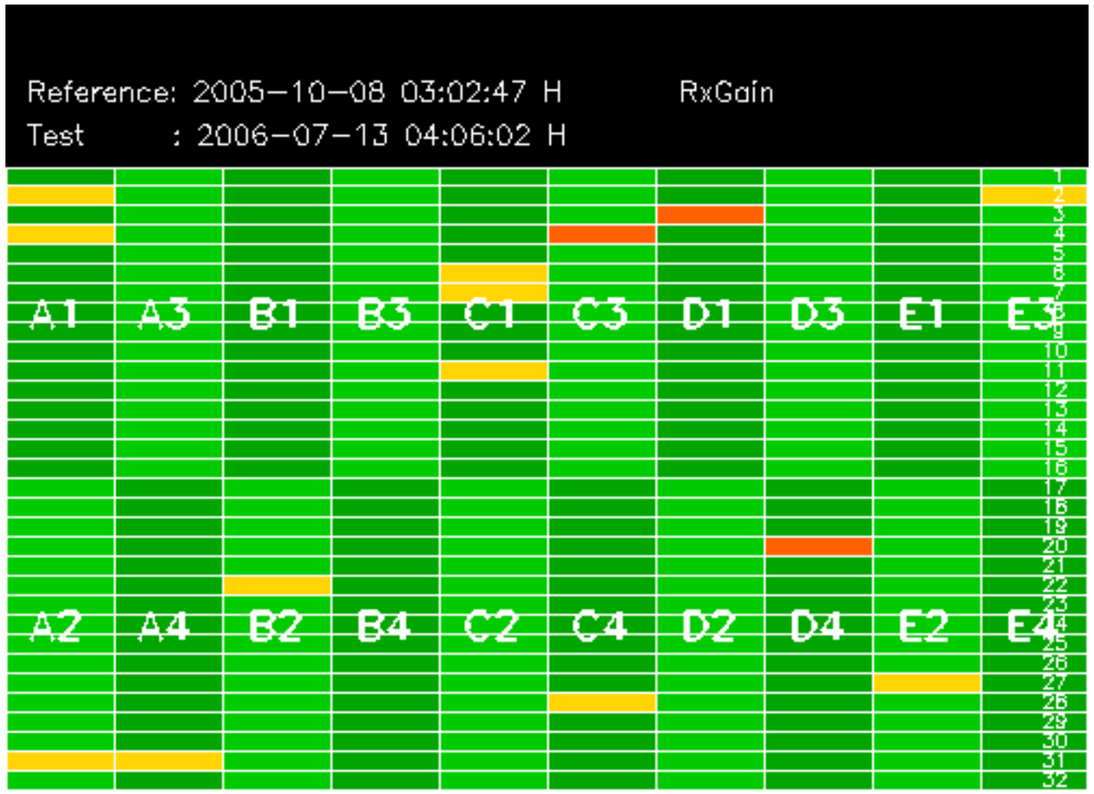

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −2.3888665 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.683969 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-07-13 04:06:02 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 : 2006-07-13 04:06:02 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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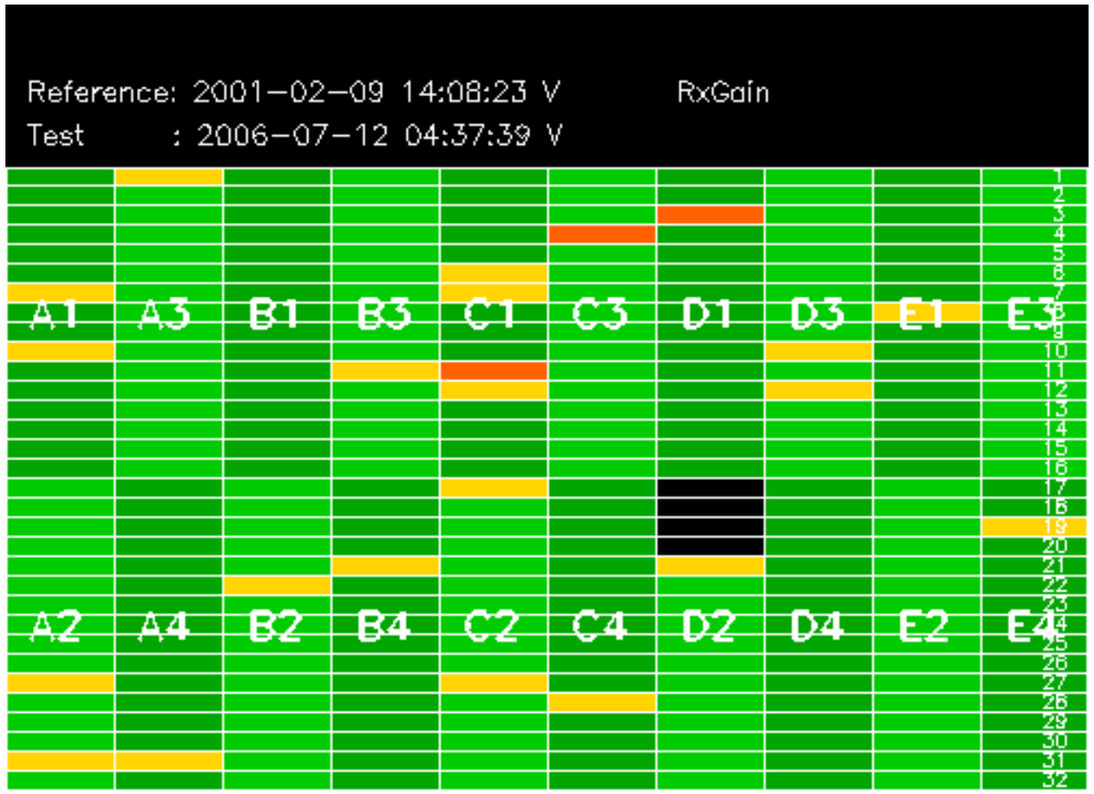
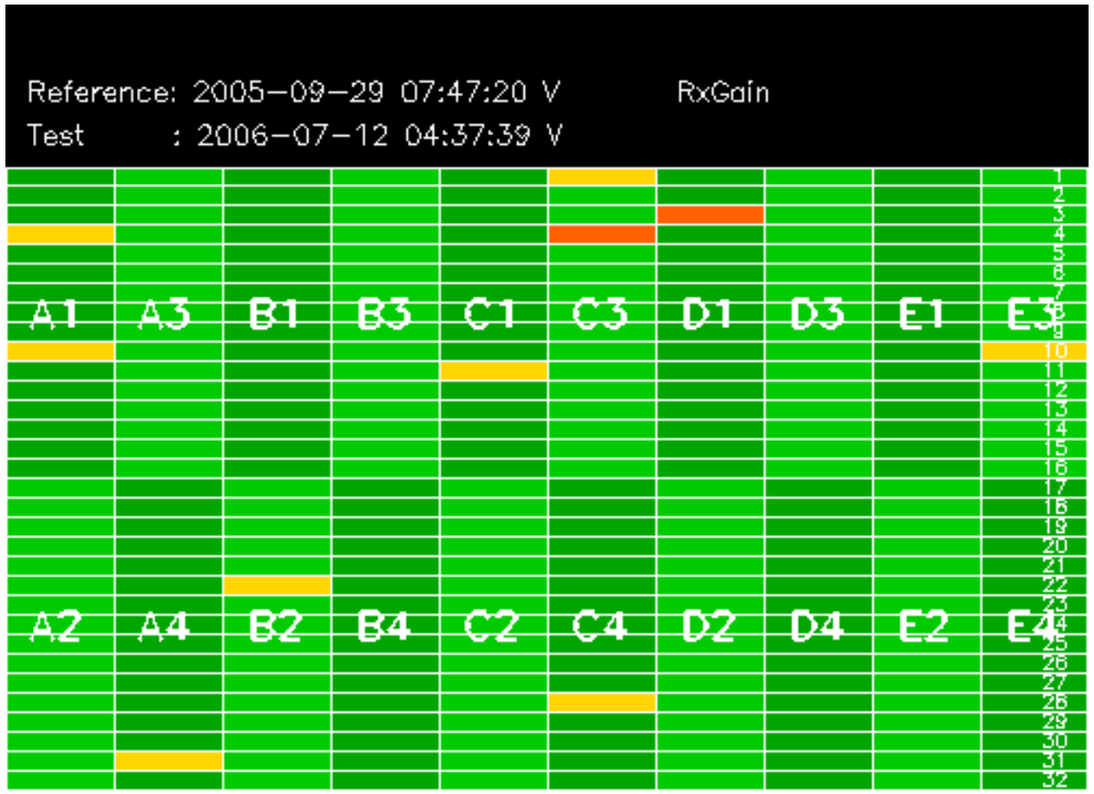
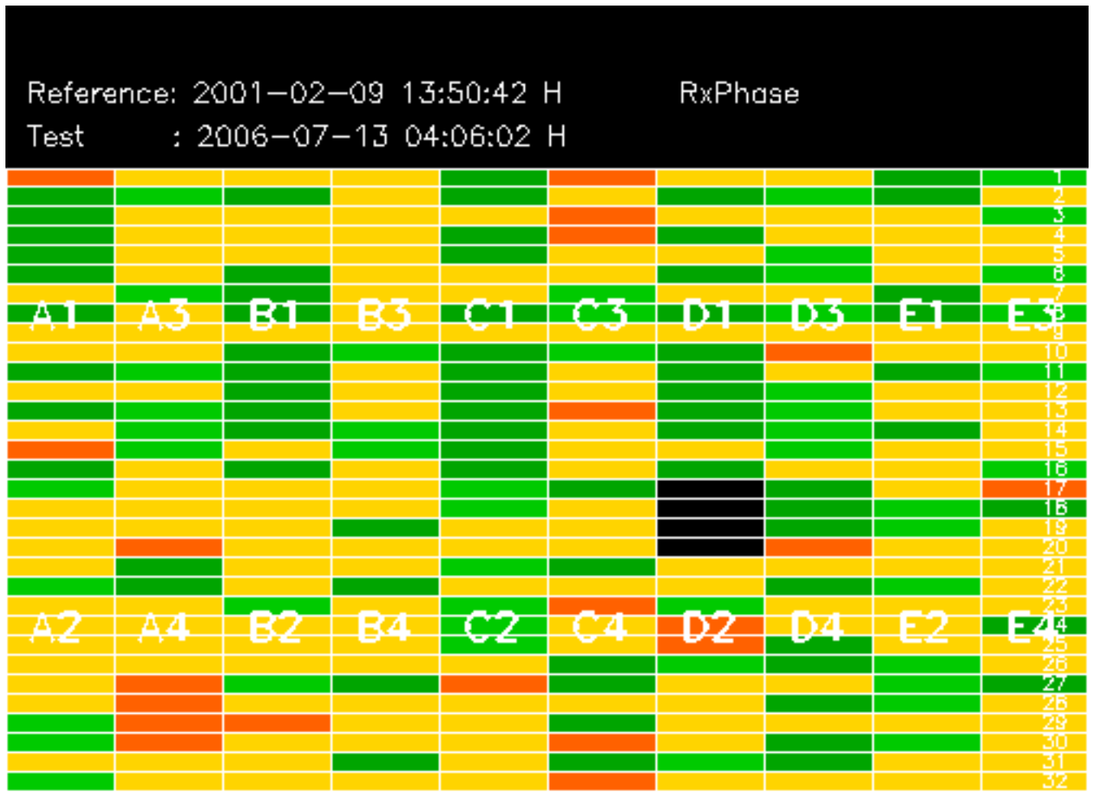
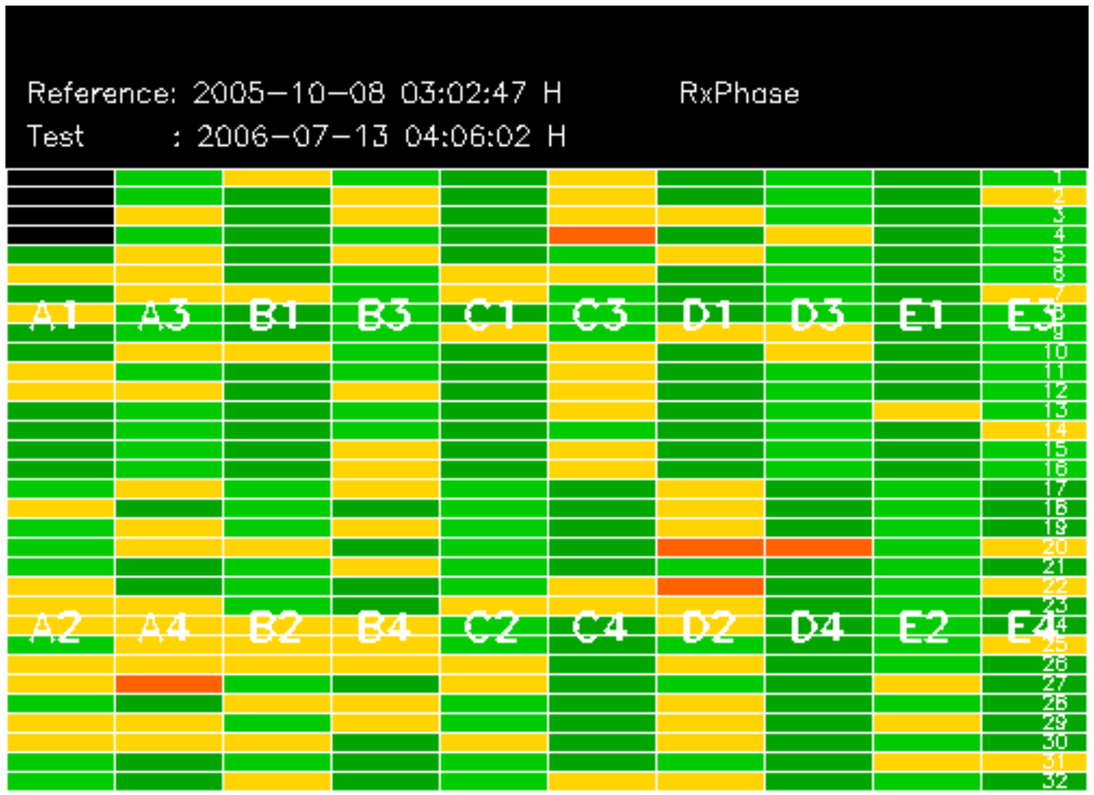

Reference: 2001-02-09 14:08:23 V
Test : 2006-07-12 04:37:39 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-07-12 04:37:39 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-07-13 04:06:02 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 : 2006-07-13 04:06:02 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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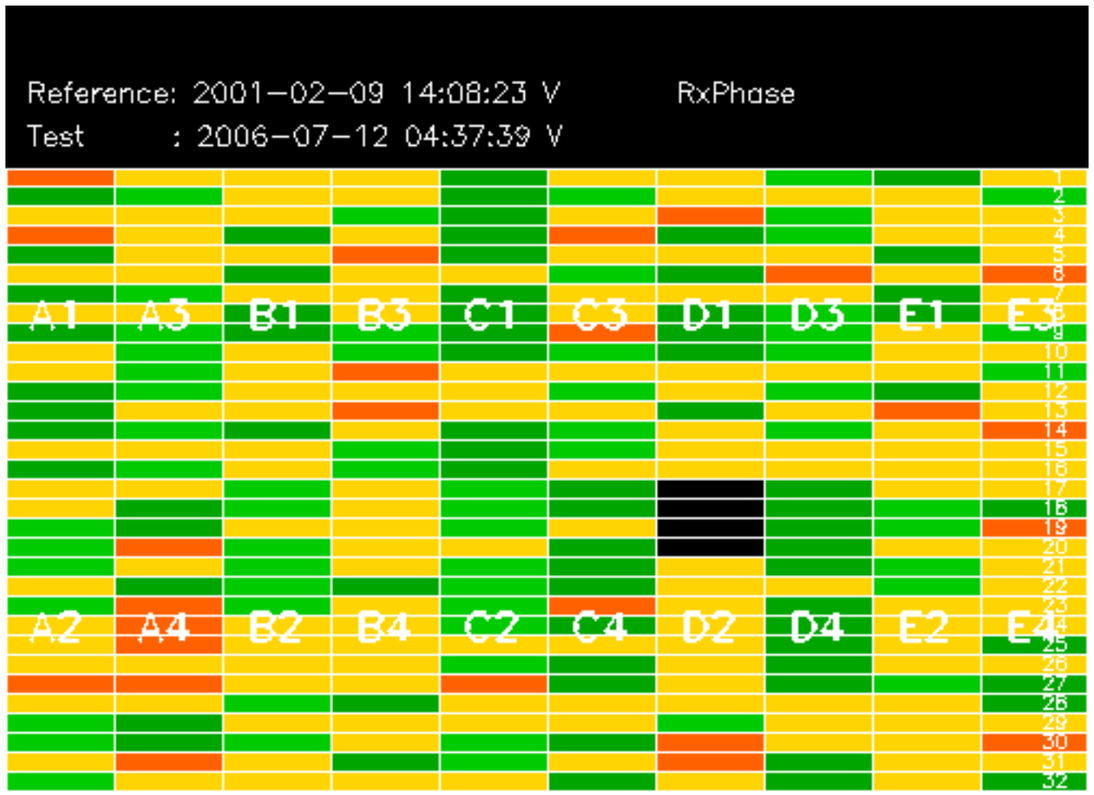
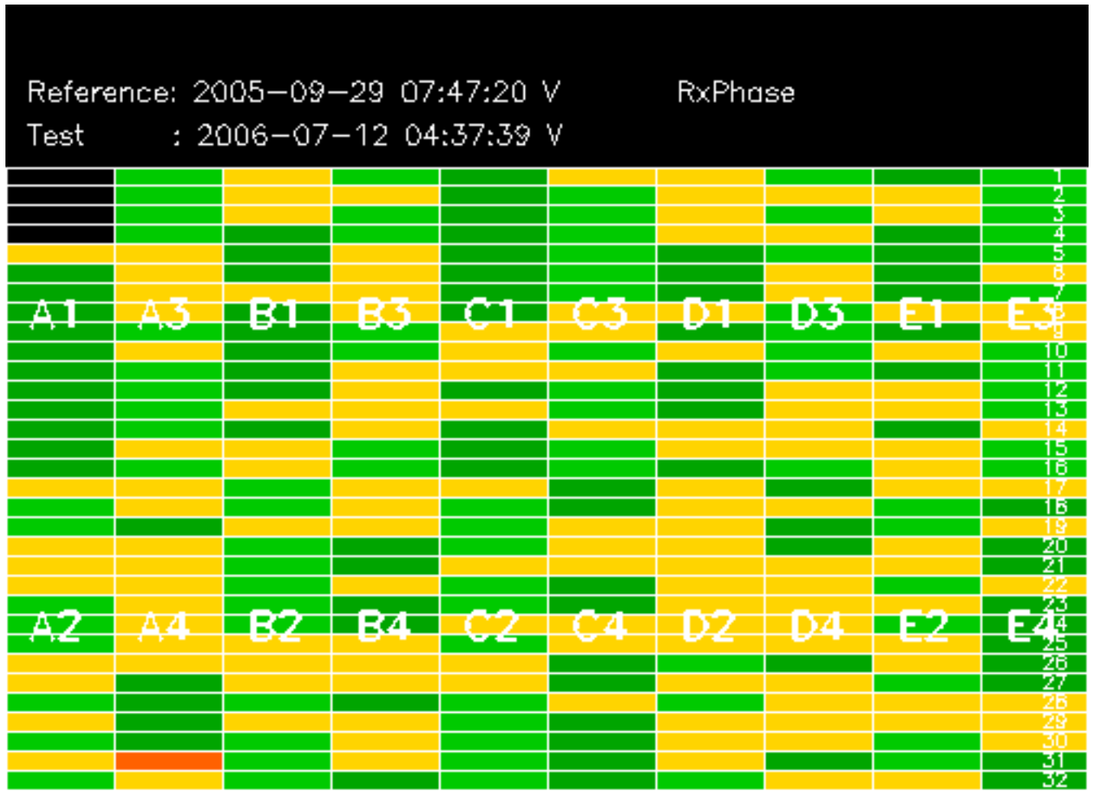

Reference: 2001-02-09 14:08:23 V
Test : 2006-07-12 04:37:39 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
RxPhase
Test : 2006-07-12 04:37:39 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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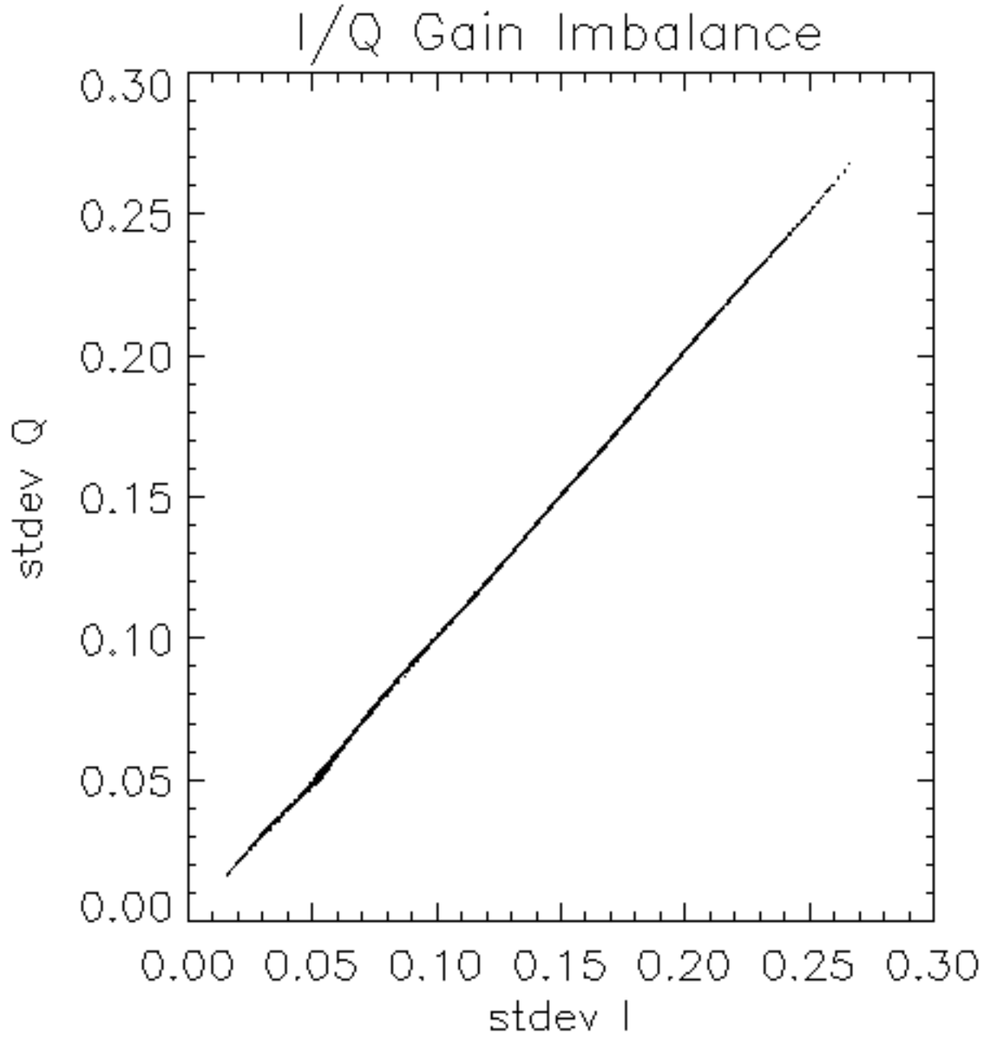
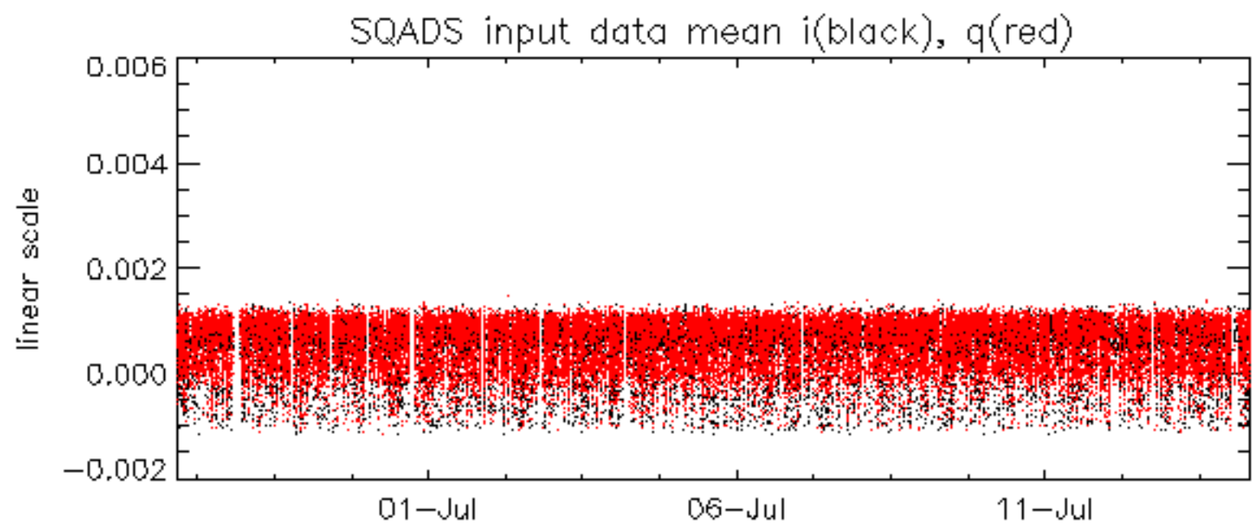
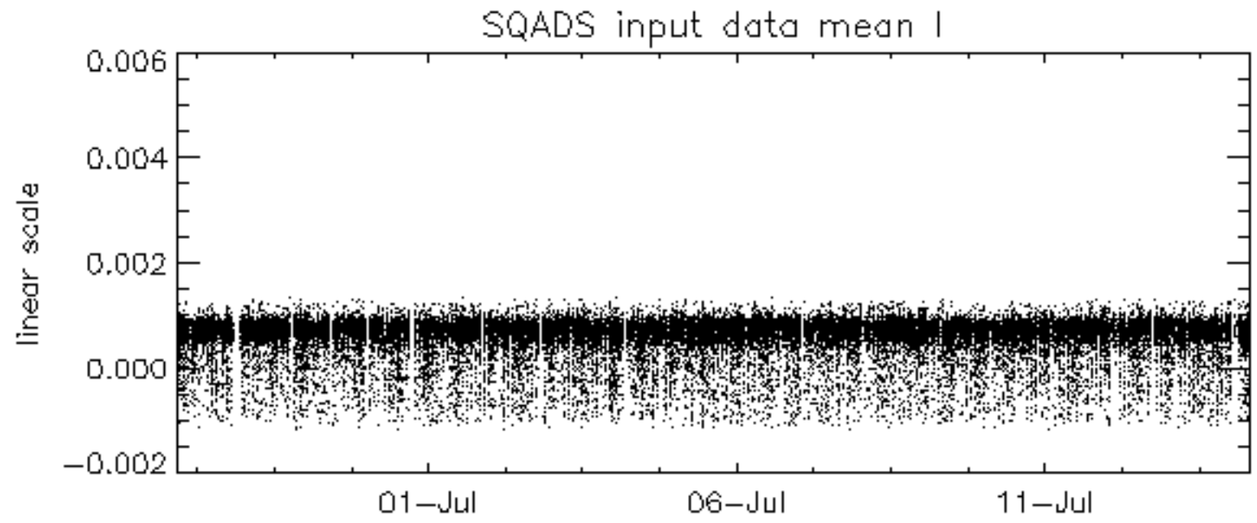
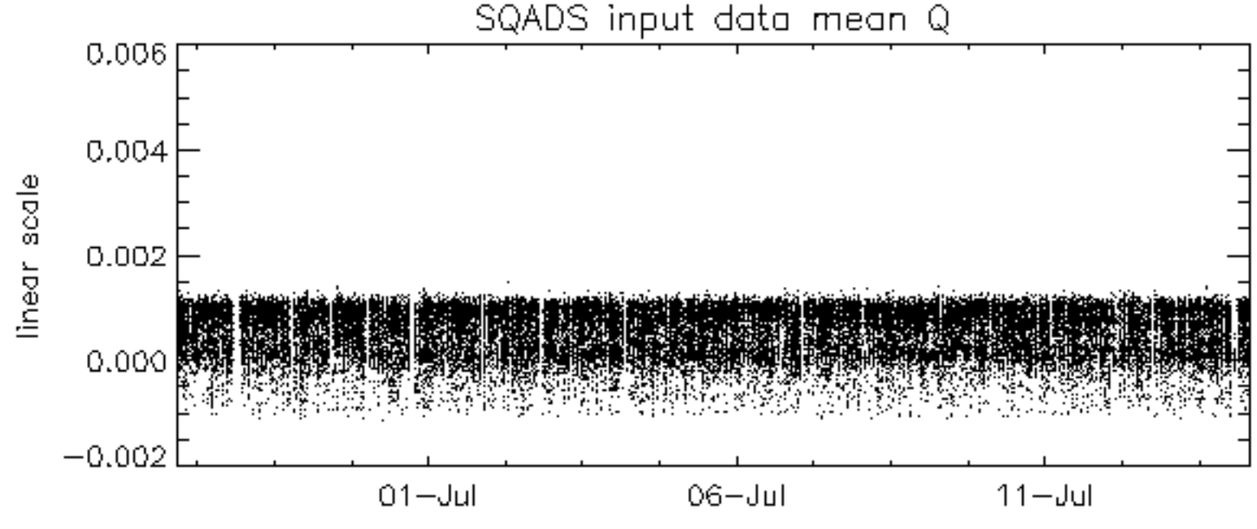
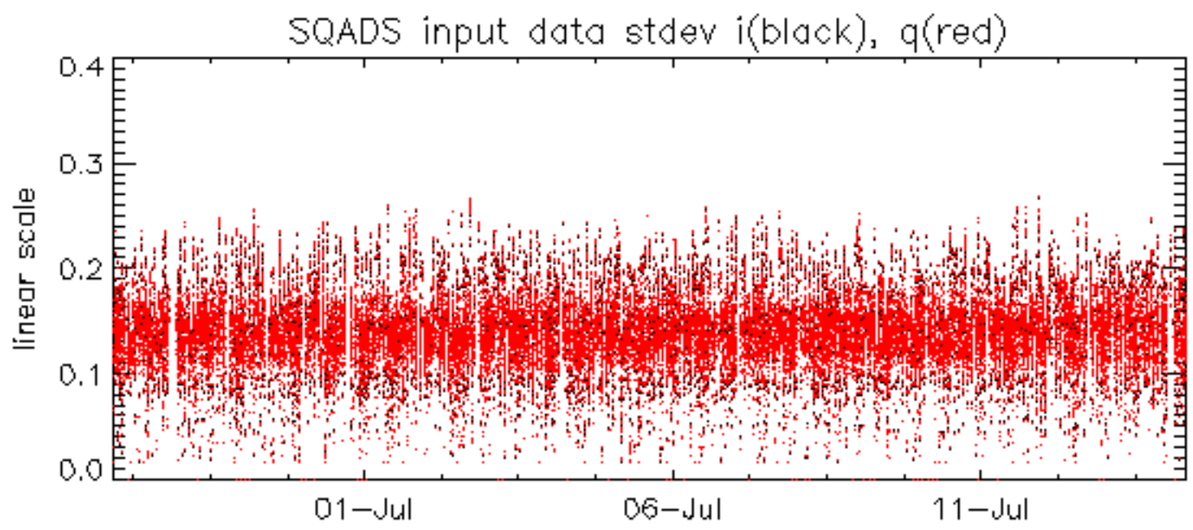
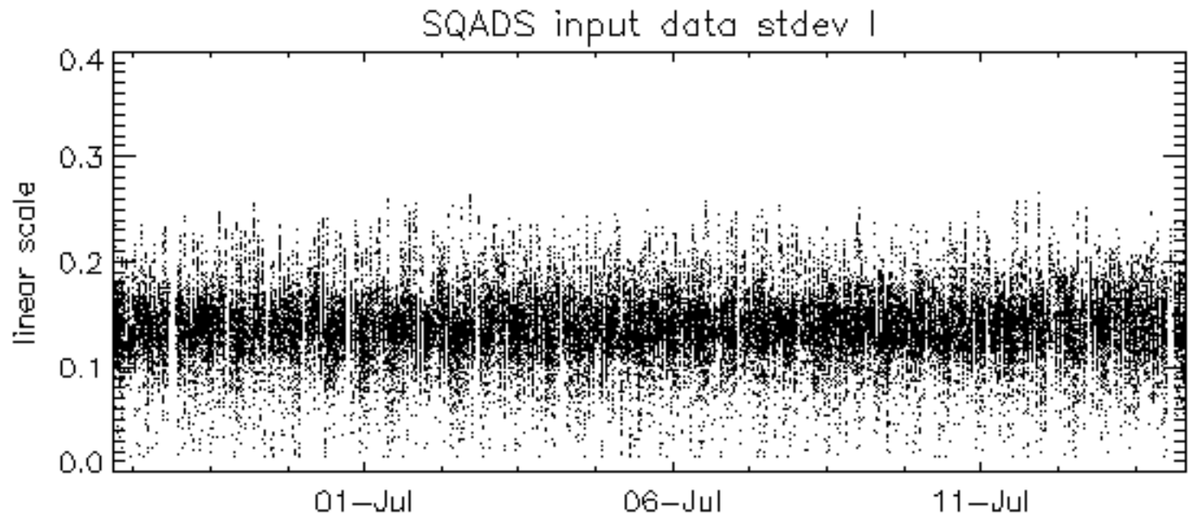

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

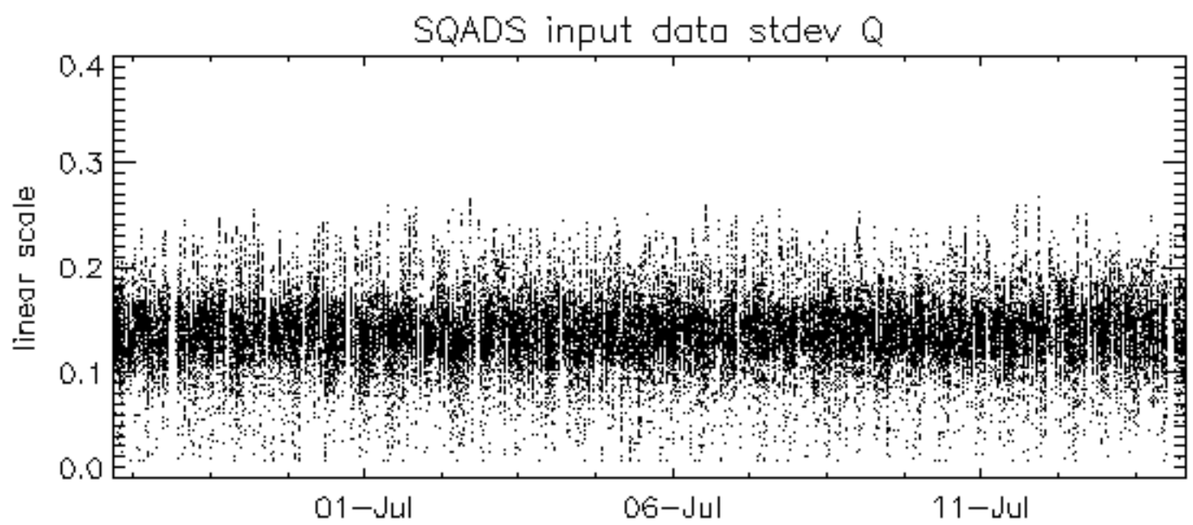

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Jul
06−Jul
11−Jul

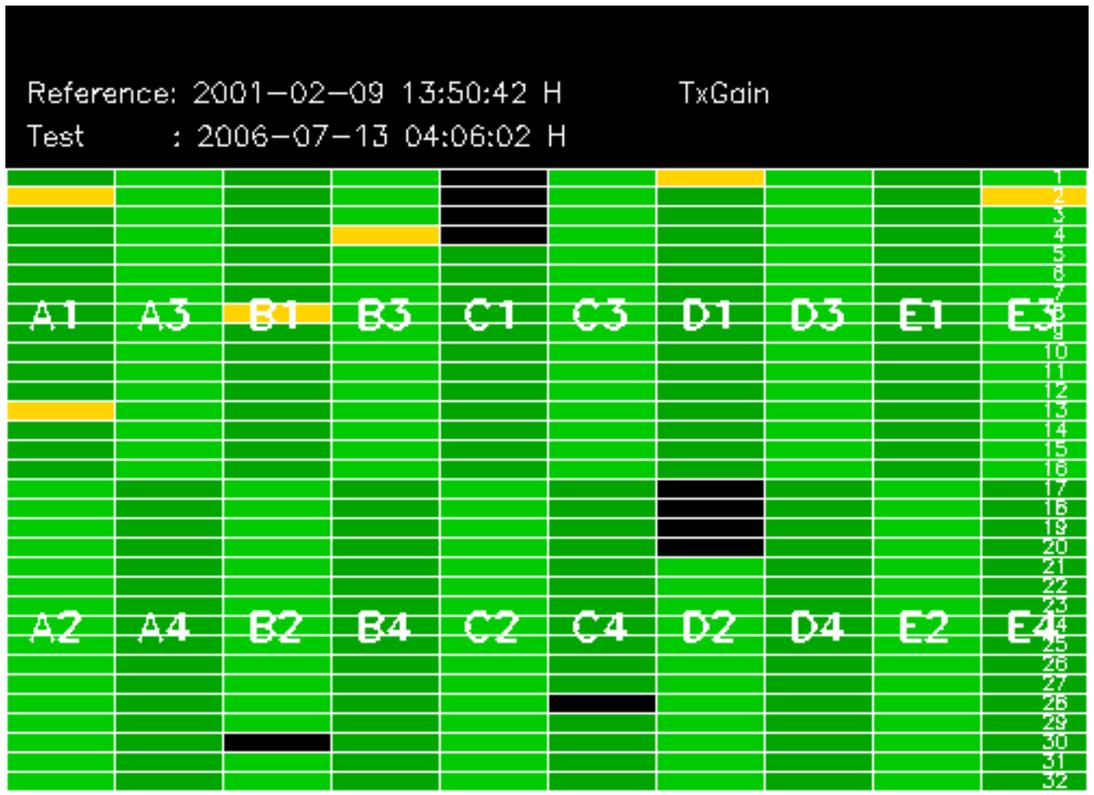

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Jul
06−Jul
11−Jul


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Jul
06−Jul
11−Jul


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
01−Jul
06−Jul
11−Jul


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
01−Jul
06−Jul
11−Jul


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
01−Jul
06−Jul
11−Jul


Reference: 2001-02-09 13:50:42 H
Test : 2006-07-13 04:06:02 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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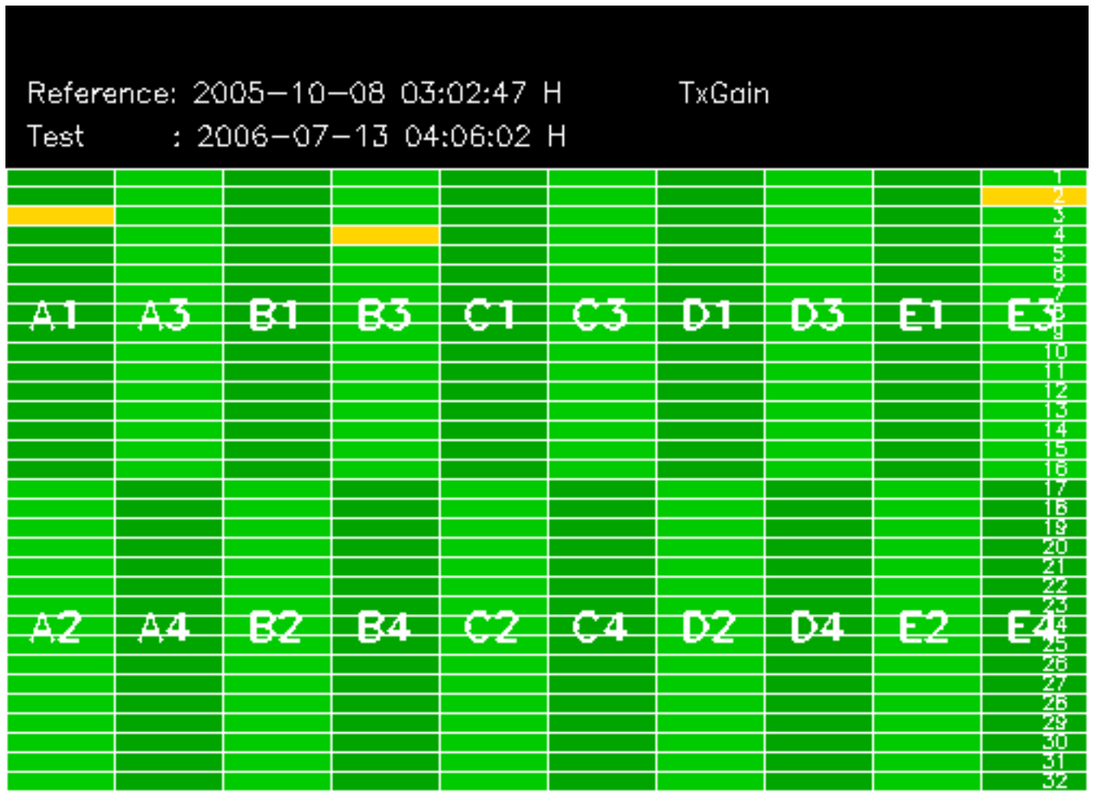
Reference: 2005-10-08 03:02:47 H
Test : 2006-07-13 04:06:02 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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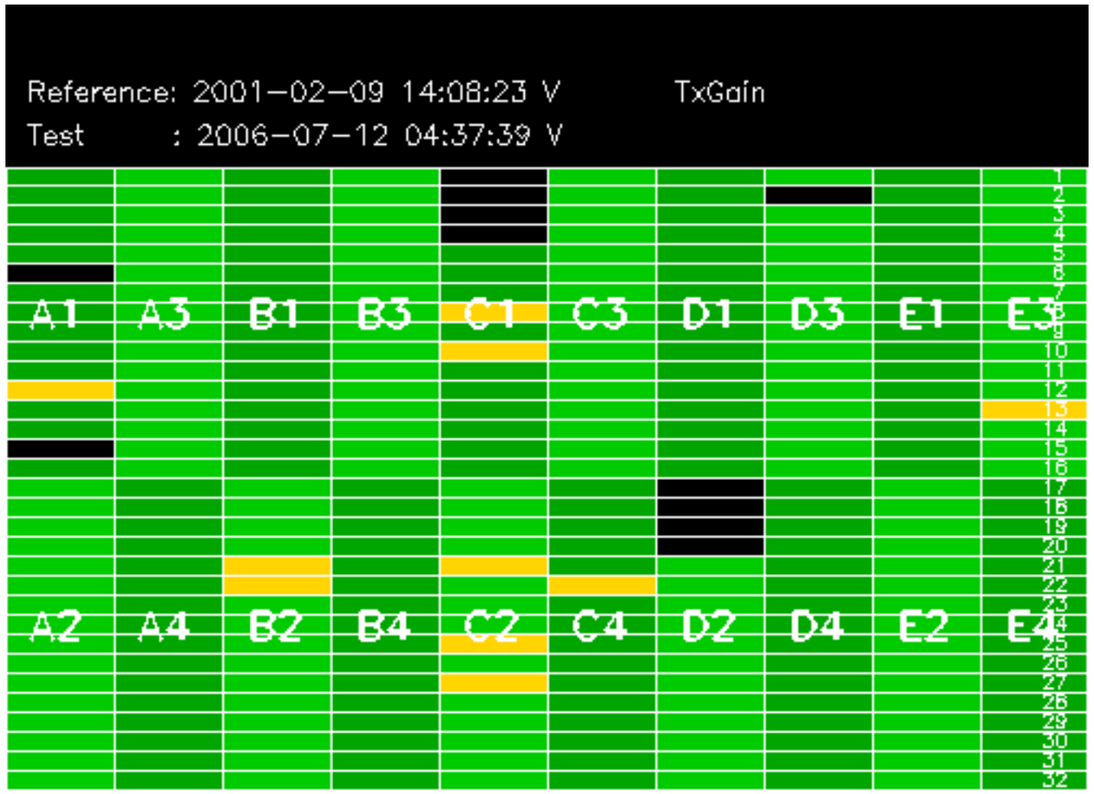
Reference: 2001-02-09 14:08:23 V
Test : 2006-07-12 04:37:39 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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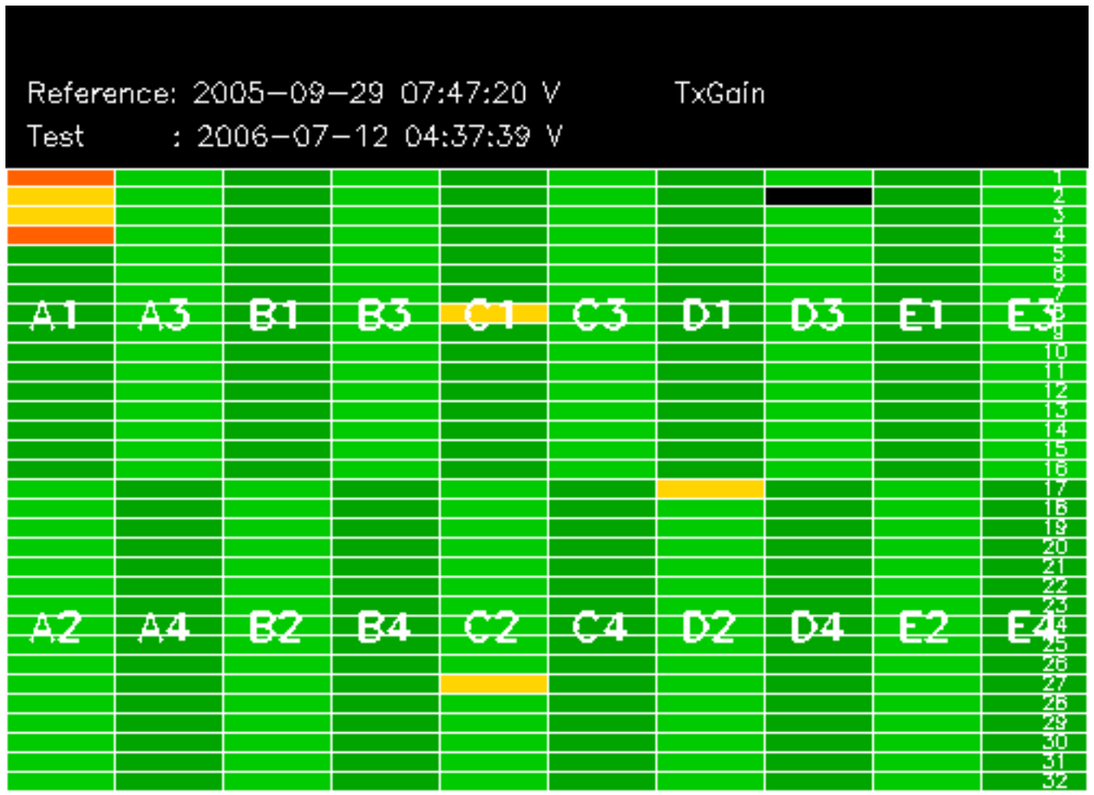
Reference: 2005-09-29 07:47:20 V
Test : 2006-07-12 04:37:39 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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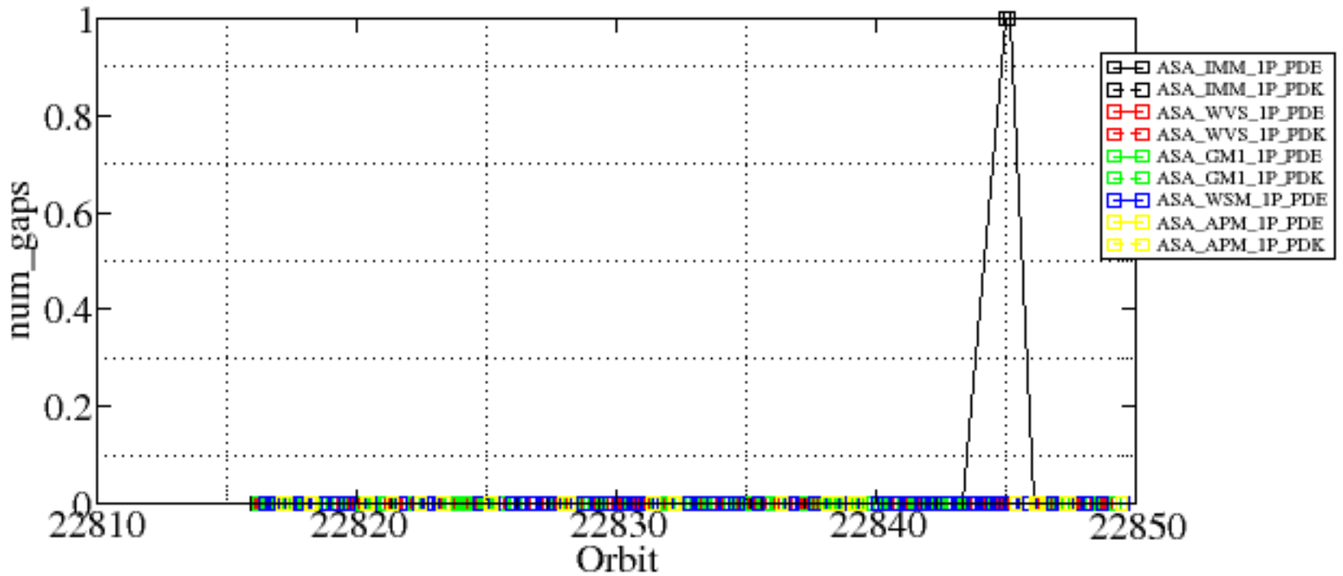
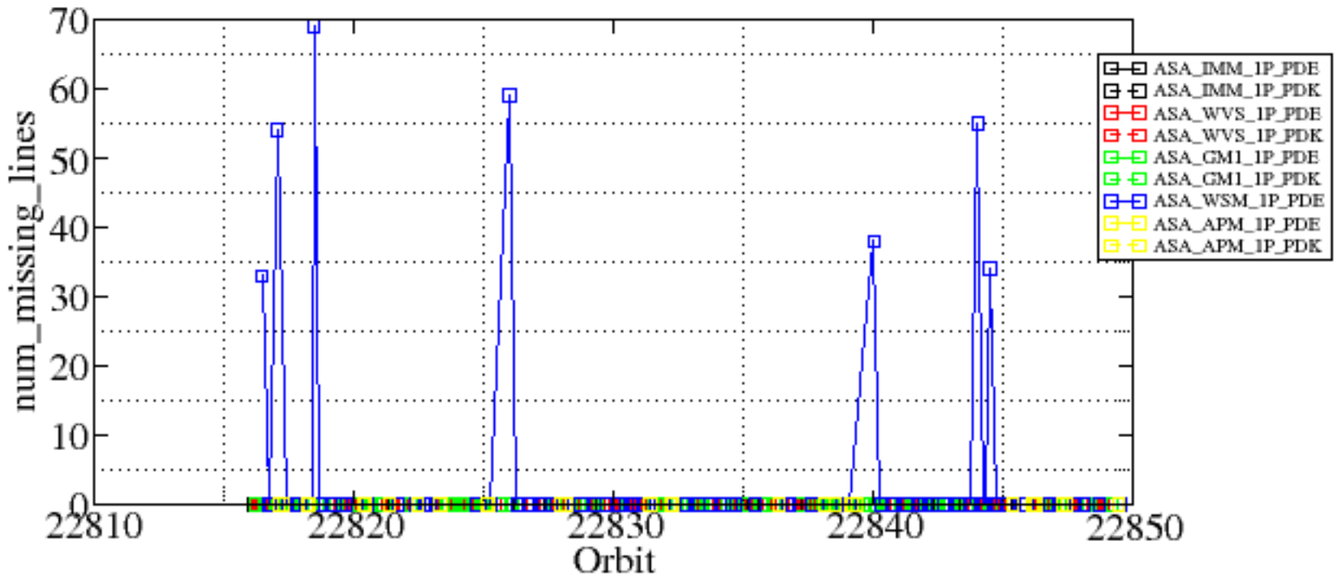
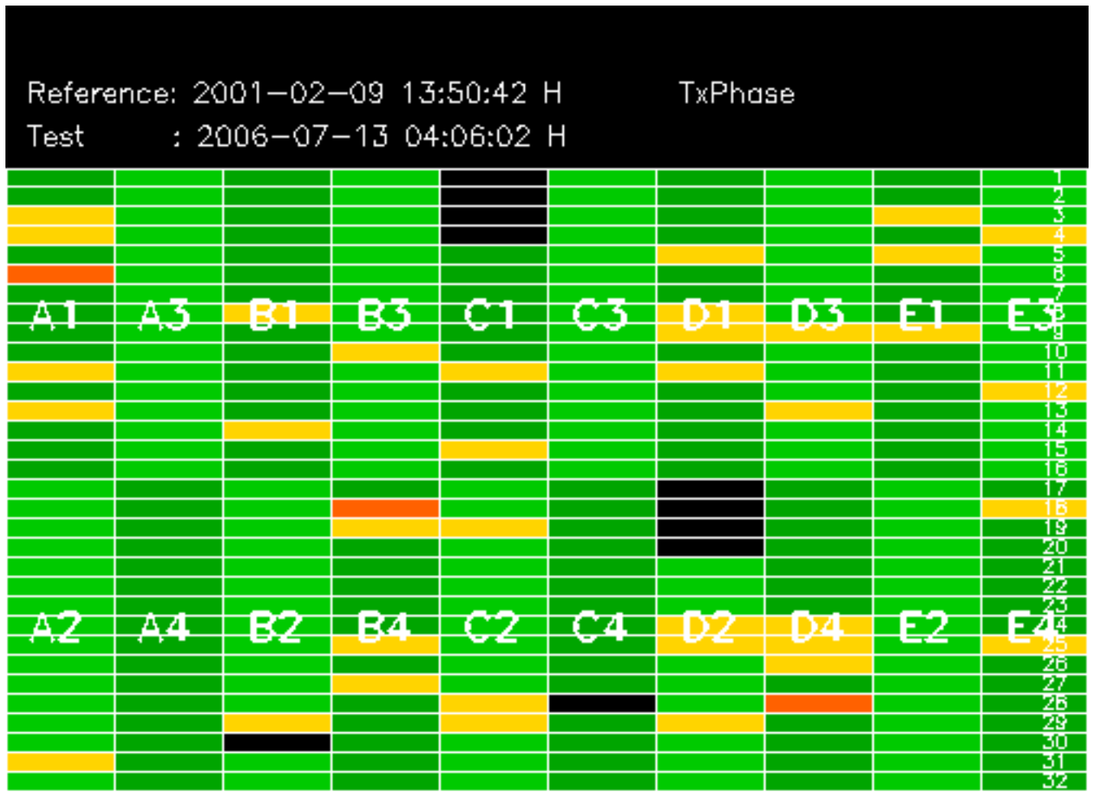
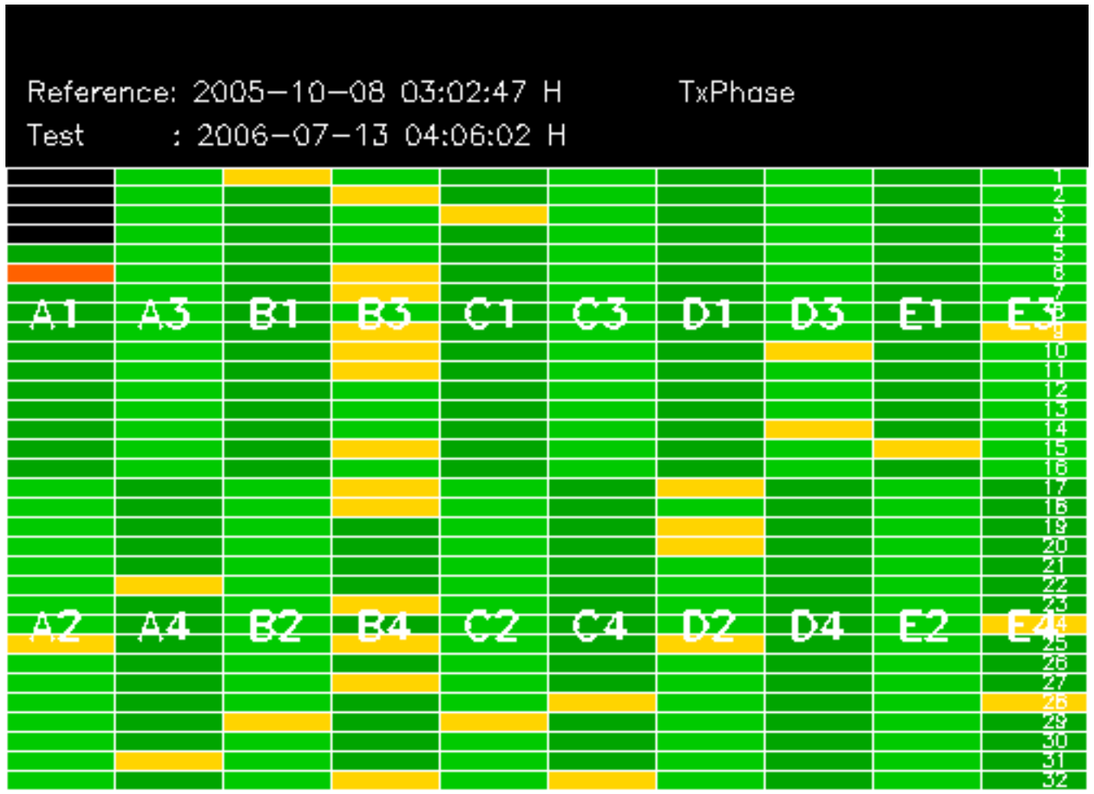
Summary of analysis for the last 3 days 2006071[234]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060714_004241_000001742049_00245_22844_0772.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060714_005914_000000452049_00246_22845_0771.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060712_005610_000000852049_00217_22816_2627.N1 </td> <td>0 </td> <td>33 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060712_015512_000000852049_00218_22817_2628.N1 </td> <td>0 </td> <td>54 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060712_041730_000000672049_00219_22818_2642.N1 </td> <td>0 </td> <td>69 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060712_165619_000001592049_00227_22826_2716.N1 </td> <td>0 </td> <td>59 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060713_162646_000001032049_00241_22840_2889.N1 </td> <td>0 </td> <td>38 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060713_230852_000001032049_00245_22844_2962.N1 </td> <td>0 </td> <td>55 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060713_235456_000003302049_00245_22844_2976.N1 </td> <td>0 </td> <td>34 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
22810
22820
22830
22840
22850
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_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
70
60
50
40
30
20
10
0
22810
22820
22830
22840
22850
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_APM_1P_PDE
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
Test : 2006-07-13 04:06:02 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
TxPhase
Test : 2006-07-13 04:06:02 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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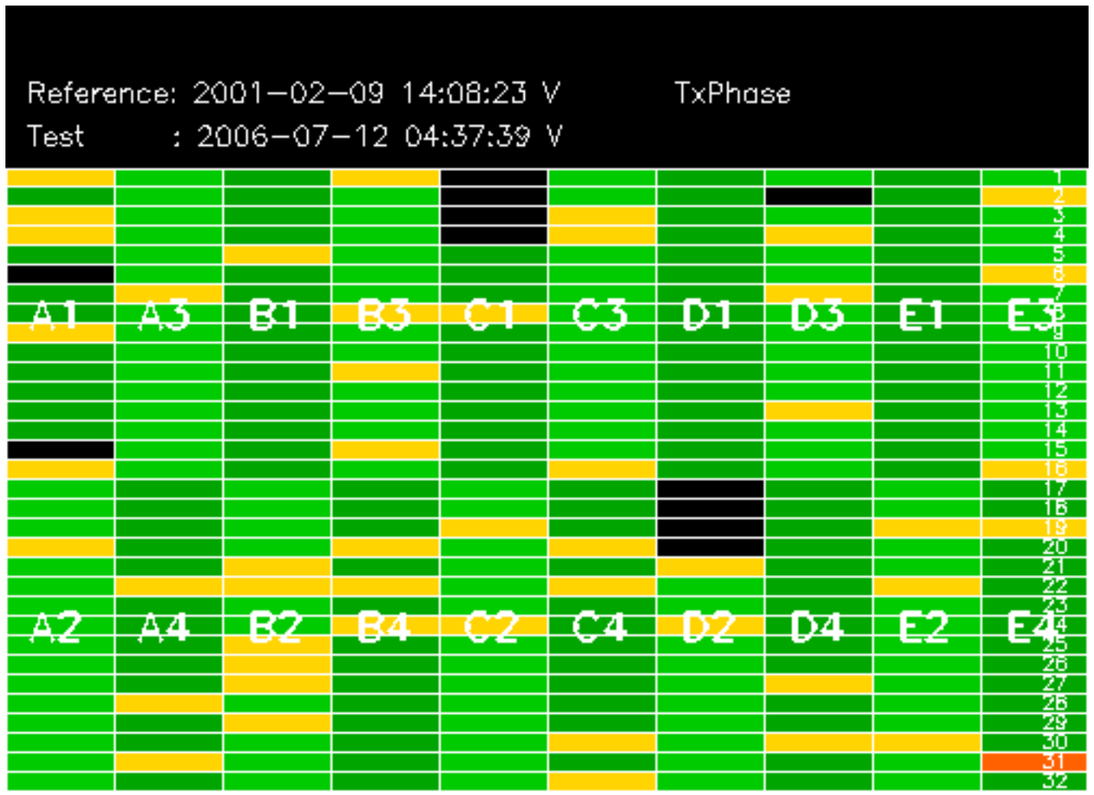
Reference: 2001-02-09 14:08:23 V
Test : 2006-07-12 04:37:39 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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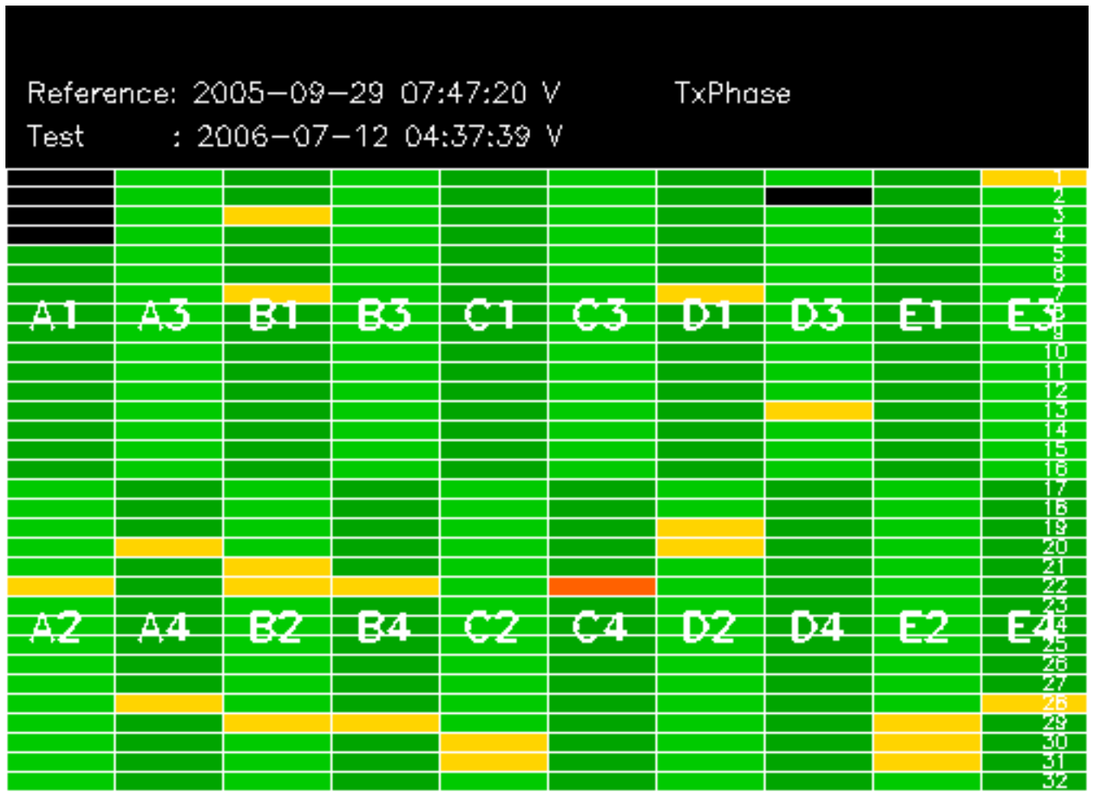
Reference: 2005-09-29 07:47:20 V
TxPhase
Test : 2006-07-12 04:37:39 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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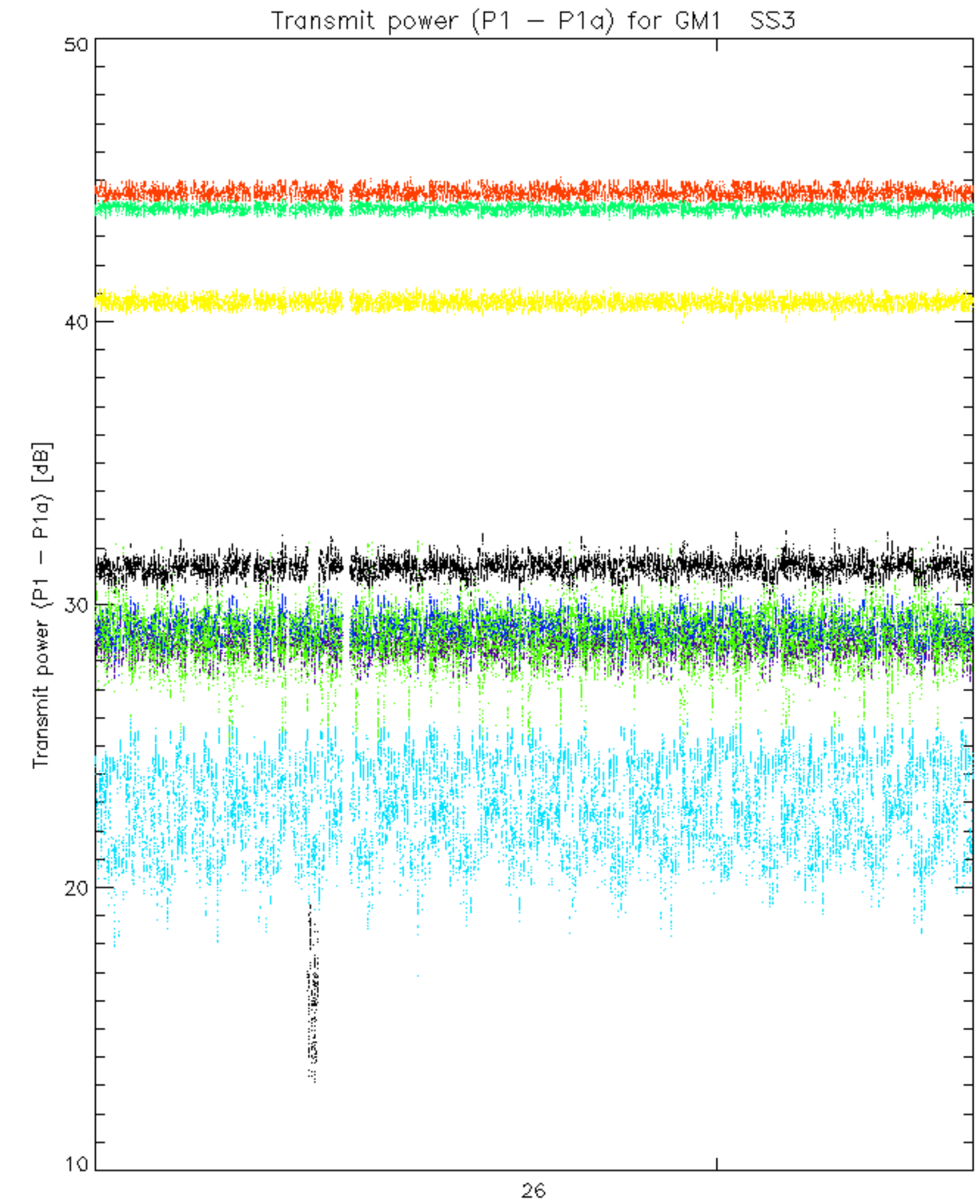
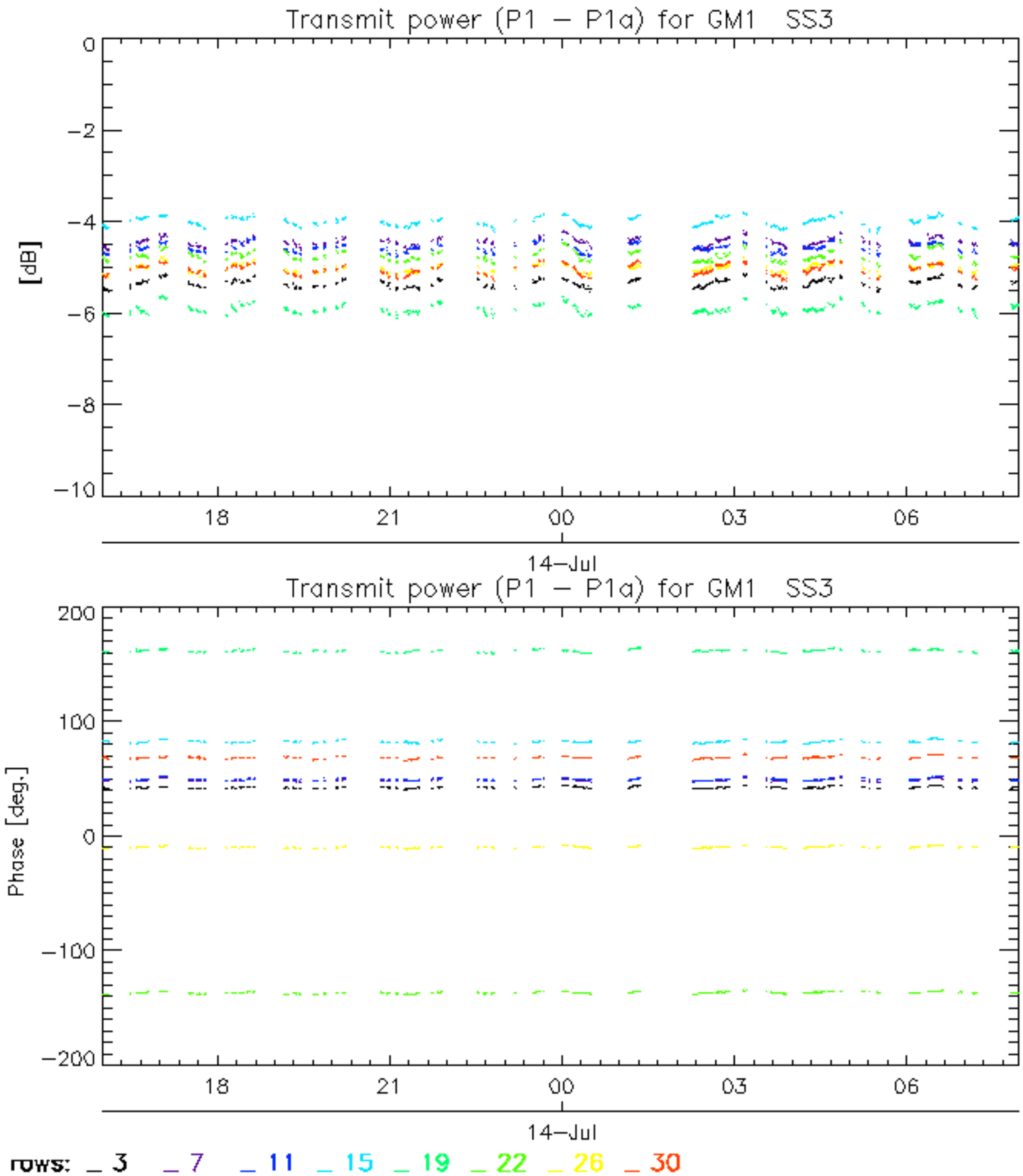
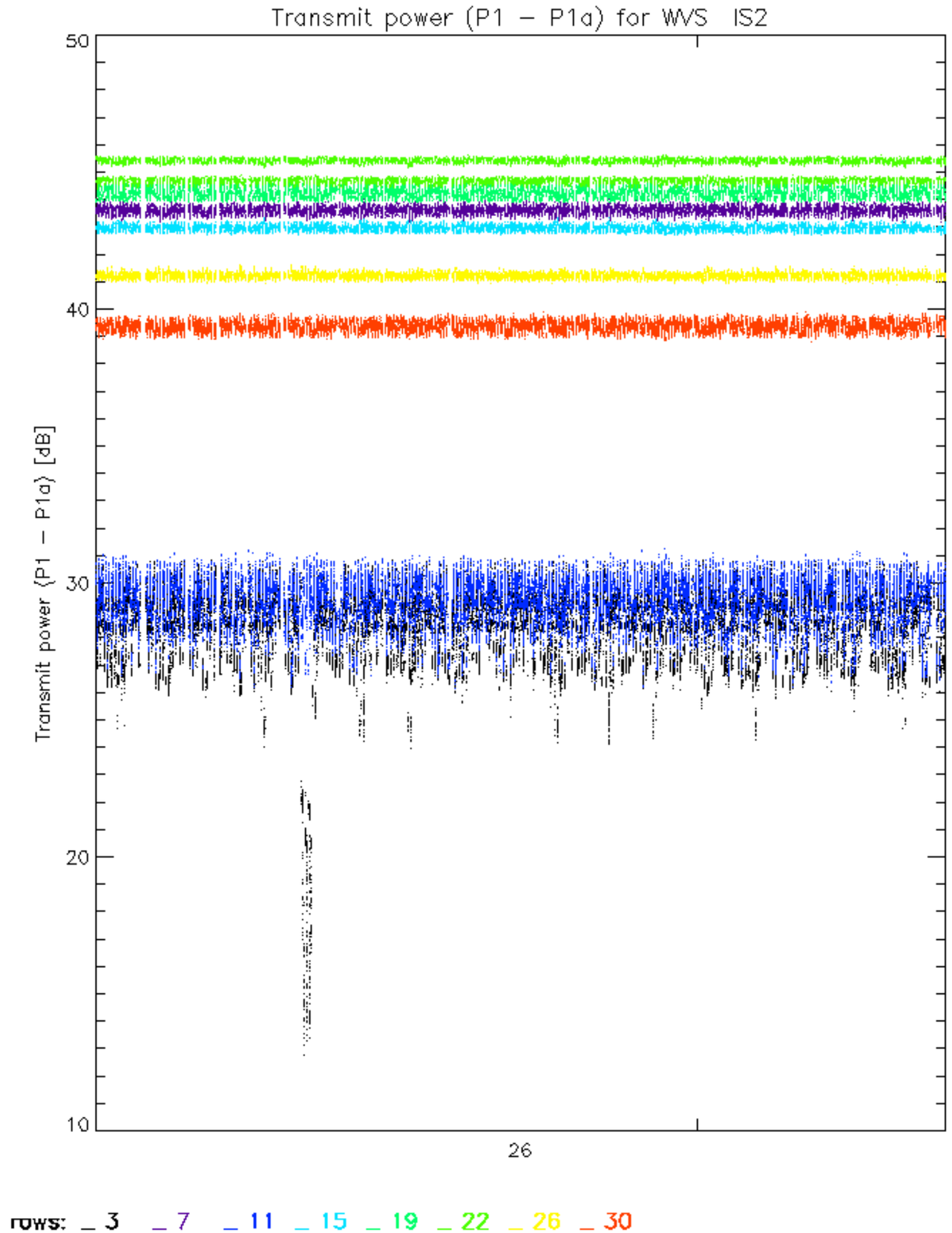
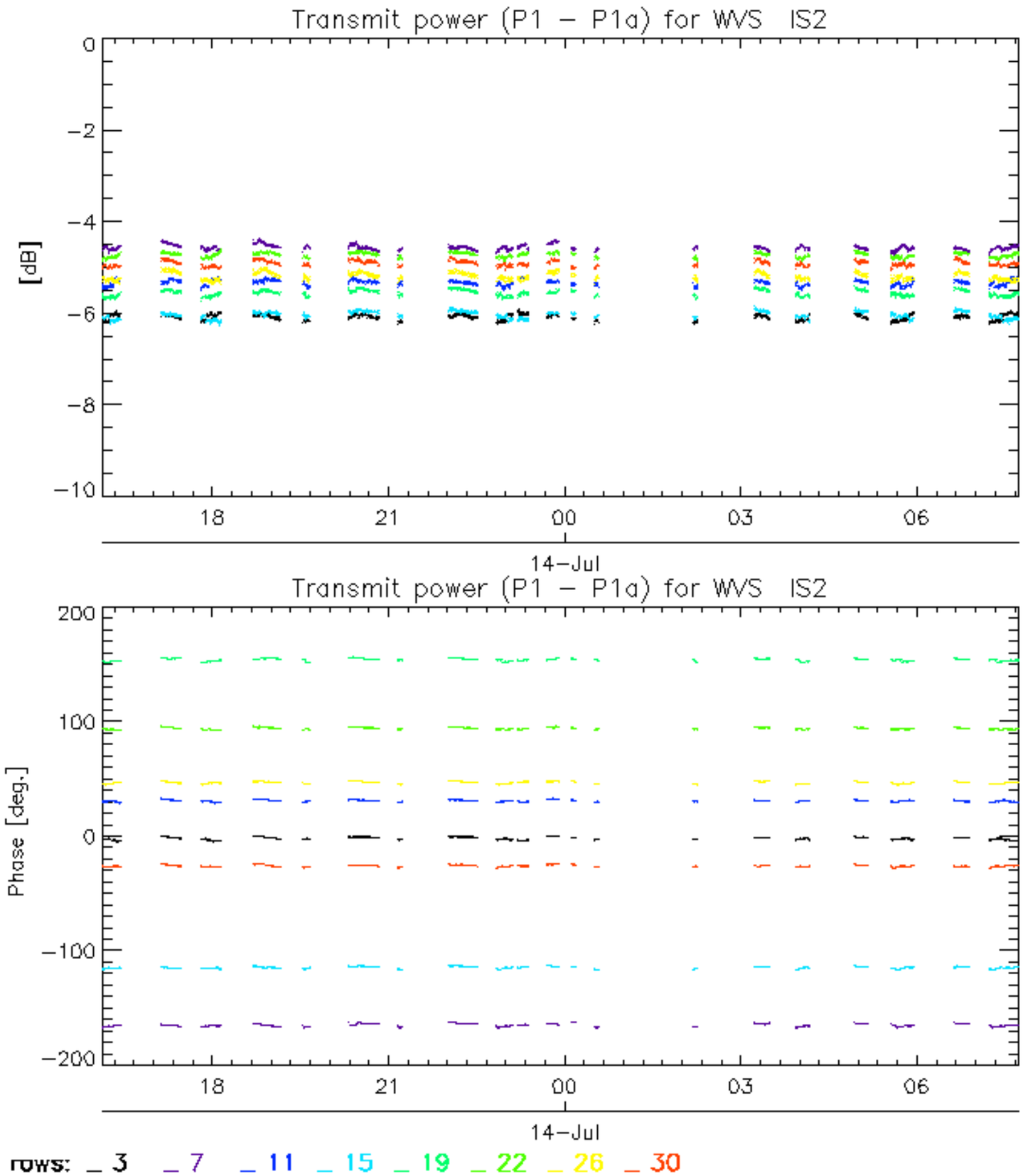

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
26
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
14–Jul
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
14–Jul
rows: 3 7 11 15 19 22 26 30


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

No unavailabilities during the reported period.