PRELIMINARY REPORT OF 060608

last update on Thu Jun 8 16:42:54 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 2006-06-07 00:00:00 to 2006-06-08 16:42:54

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	43	63	10	0	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	43	63	10	0	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	43	63	10	0	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	43	63	10	0	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	42	48	27	31	56
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	42	48	27	31	56
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	42	48	27	31	56
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	42	48	27	31	56

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	20060607 043734
H	20060606 050911

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	-3.949418	0.017662	0.057228
7	P1	-3.117164	0.016706	-0.048705
11	P1	-4.108690	0.018408	0.010035
15	P1	-6.137857	0.019913	-0.007331
19	P1	-3.329376	0.008384	-0.043723
22	P1	-4.515793	0.011428	0.023525
26	P1	-3.980800	0.017932	0.041410
30	P1	-5.747849	0.008504	0.012402
3	P1	-16.547758	0.261780	0.133218
7	P1	-17.176933	0.149389	-0.150316
11	P1	-16.934763	0.310726	-0.055791
15	P1	-13.210230	0.215105	0.022003
19	P1	-14.282209	0.048981	-0.112141
22	P1	-16.164087	0.377818	-0.018369
26	P1	-15.254638	0.241528	0.111209
30	P1	-17.052698	0.384003	-0.237534

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.188509	0.080370	0.137681
7	P2	-22.069082	0.096075	0.139507
11	P2	-15.917932	0.109751	0.140142
15	P2	-7.161719	0.091470	0.025393
19	P2	-9.167042	0.084269	-0.008118
22	P2	-18.134682	0.082238	-0.072265
26	P2	-16.378668	0.086990	-0.051902
30	P2	-19.571066	0.085125	0.068296

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.185303	0.003969	0.018039
7	P3	-8.185303	0.003969	0.018039
11	P3	-8.185303	0.003969	0.018039
15	P3	-8.185303	0.003969	0.018039
19	P3	-8.185303	0.003969	0.018039
22	P3	-8.185303	0.003969	0.018039
26	P3	-8.185303	0.003969	0.018039
30	P3	-8.185303	0.003969	0.018039

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1
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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	-3.782314	0.064381	-0.067163
7	P1	-2.600578	0.031726	0.029912
11	P1	-2.864770	0.023501	0.001454
15	P1	-3.500321	0.049619	-0.028751
19	P1	-3.399339	0.014192	-0.019044
22	P1	-5.084673	0.019867	0.007416
26	P1	-5.841907	0.015596	-0.015960
30	P1	-5.187383	0.026613	0.013808
3	P1	-11.614507	0.081732	-0.024976
7	P1	-9.966575	0.053731	-0.007732
11	P1	-10.207161	0.085987	-0.059453
15	P1	-10.632393	0.150538	-0.121202
19	P1	-15.515748	0.076009	-0.047743
22	P1	-20.895887	1.217579	-0.057012

26	P1	-16.480211	0.348226	0.030519
30	P1	-17.981520	0.386747	0.258777

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.876900	0.067324	0.111867
7	P2	-22.506756	0.125441	0.045656
11	P2	-11.173807	0.045233	0.057337
15	P2	-4.907821	0.046422	-0.018608
19	P2	-6.877242	0.050422	-0.008909
22	P2	-8.198042	0.041268	-0.029942
26	P2	-24.113668	0.064855	-0.067111
30	P2	-22.063906	0.053046	-0.006703

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.018374	0.004649	0.011911
7	P3	-8.018498	0.004651	0.011977
11	P3	-8.018376	0.004644	0.012519
15	P3	-8.018286	0.004651	0.011688
19	P3	-8.018461	0.004649	0.011916
22	P3	-8.018462	0.004642	0.011745
26	P3	-8.018433	0.004634	0.011495
30	P3	-8.018396	0.004640	0.011724

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

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4.3.2 - Evolution for GM1

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5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000529395
	stdev	1.91992e-07
MEAN Q	mean	0.000508299
	stdev	2.30439e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.133937
	stdev	0.00119606
STDEV Q	mean	0.134277
	stdev	0.00121281

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006060[678]
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_1PNPDE20060606_003645_000001642048_00202_22300_6709.N1	1	0
ASA_GM1_1PNPDK20060606_092117_000007552048_00208_22306_4644.N1	0	24
ASA_GM1_1PNPDK20060607_102902_000006702048_00223_22321_4703.N1	0	6
ASA_WSM_1PNPDE20060606_040457_000002692048_00205_22303_2880.N1	0	13
ASA_WSM_1PNPDE20060606_112905_000001292048_00209_22307_2917.N1	0	14

ASA_WSM_1PNPDE20060606_141126_000001522048_00211_22309_2967.N1	0	49
ASA_WSM_1PNPDE20060606_204401_000000862048_00214_22312_3005.N1	0	1
ASA_WSM_1PNPDE20060607_015506_000000852048_00218_22316_3054.N1	0	54
ASA_WSM_1PNPDE20060607_141813_000000972048_00225_22323_3144.N1	0	2
ASA_WSM_1PNPDE20060607_183929_000002072048_00228_22326_3160.N1	0	13

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

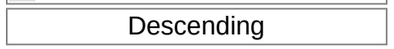
Evolution of unbiased Doppler error (Real - Expected)

Acsending

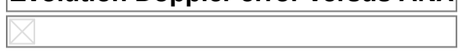
Descending

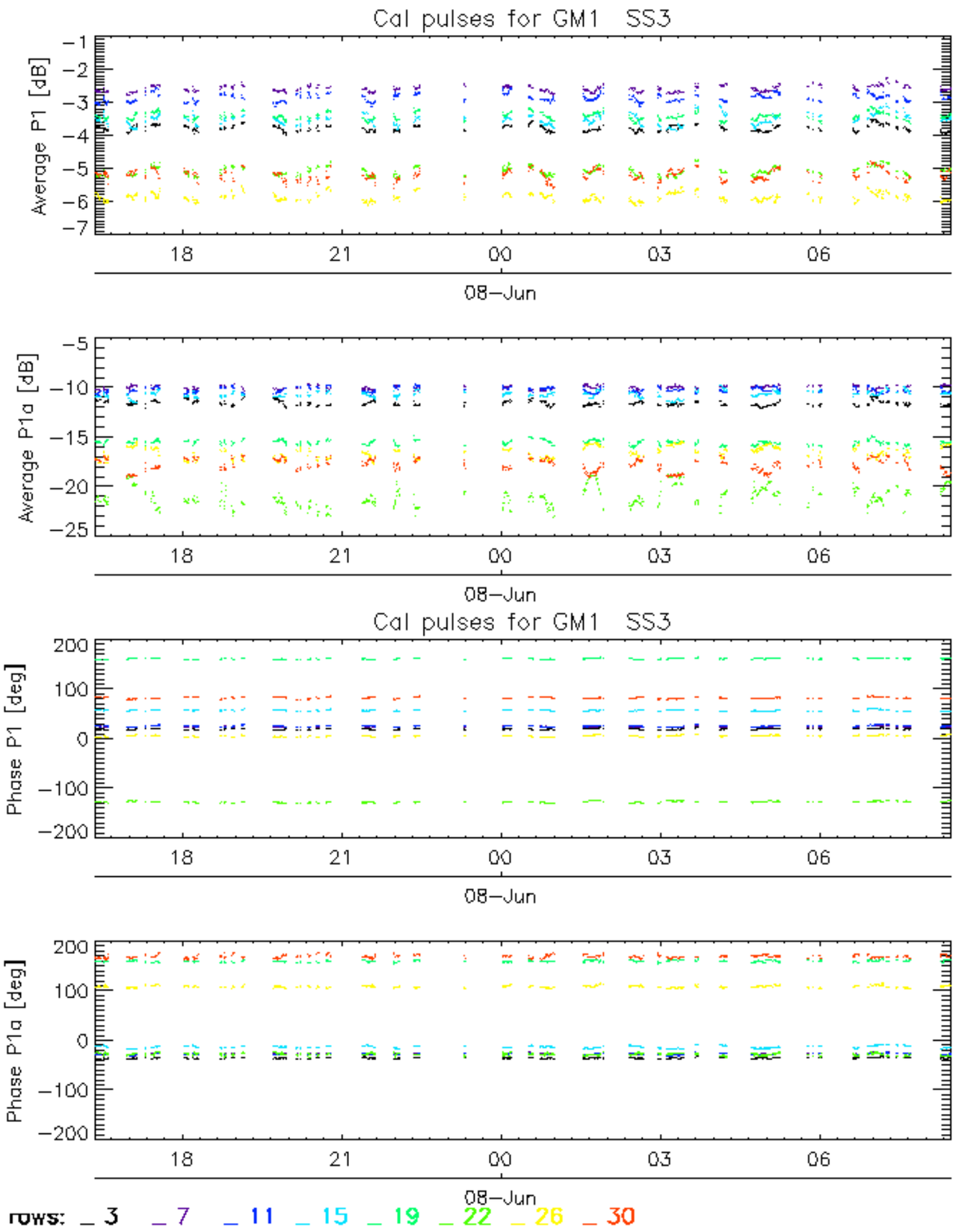
7.5 - Absolute Doppler for GM1

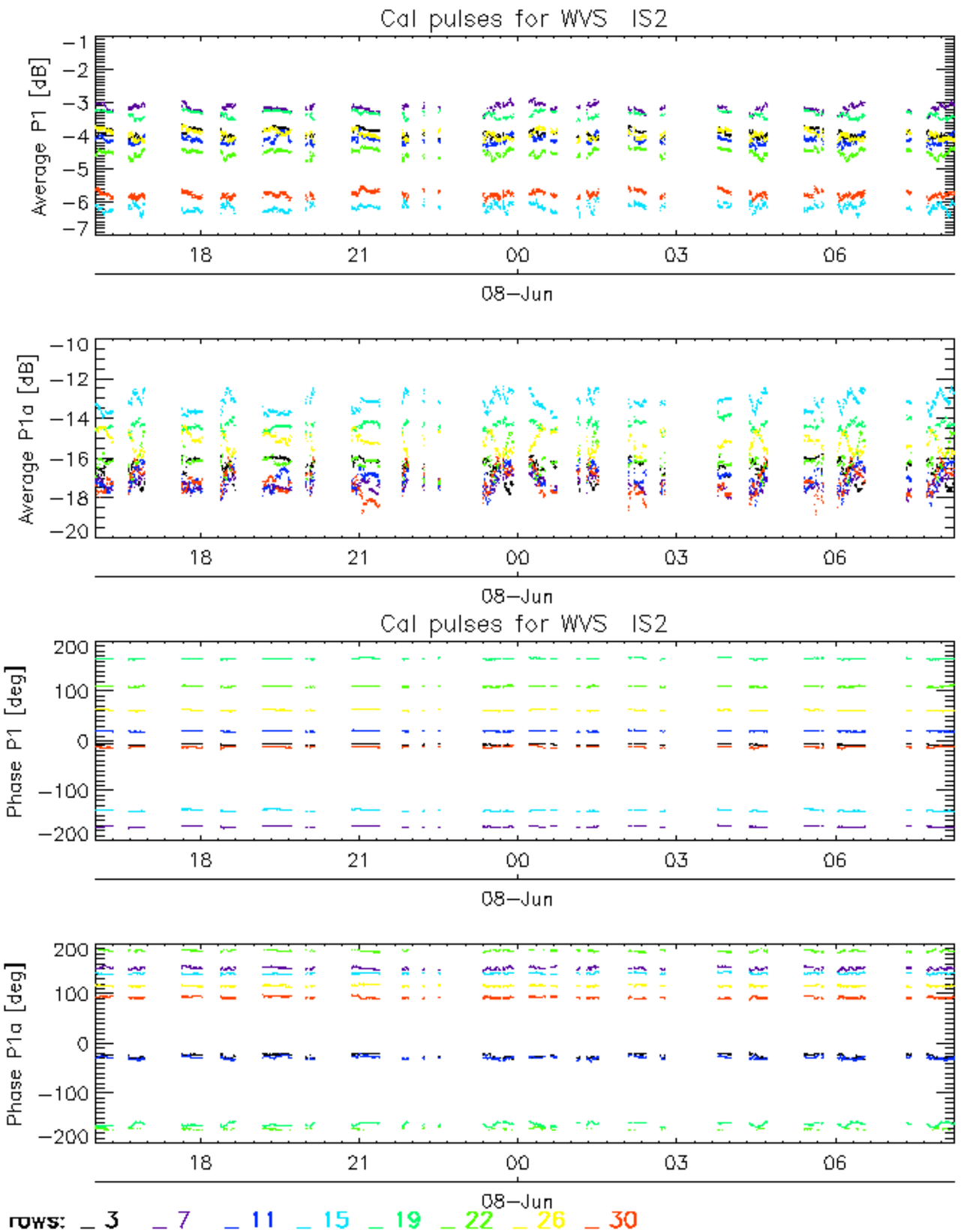
Evolution of Absolute Doppler

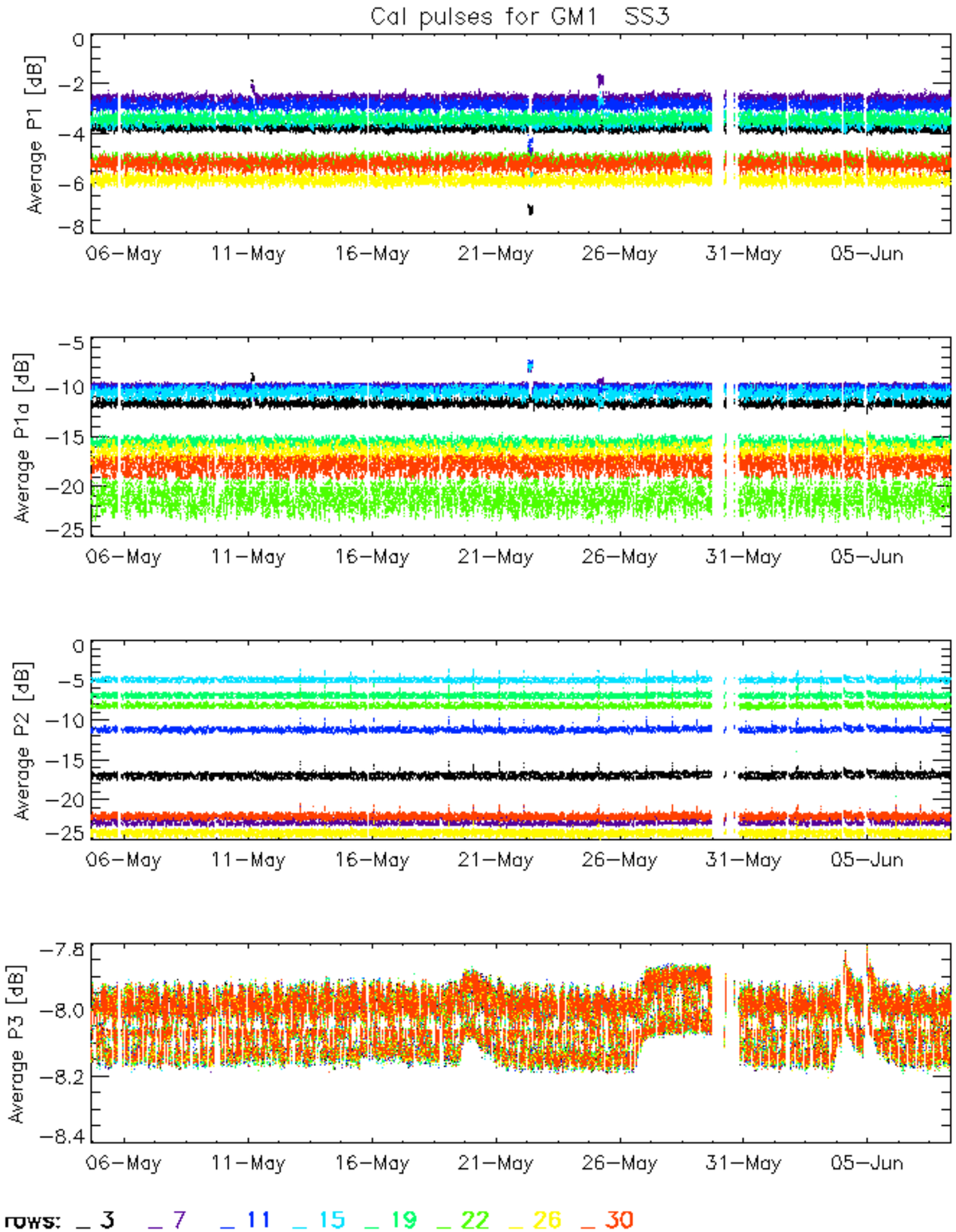
Acsending

Descending

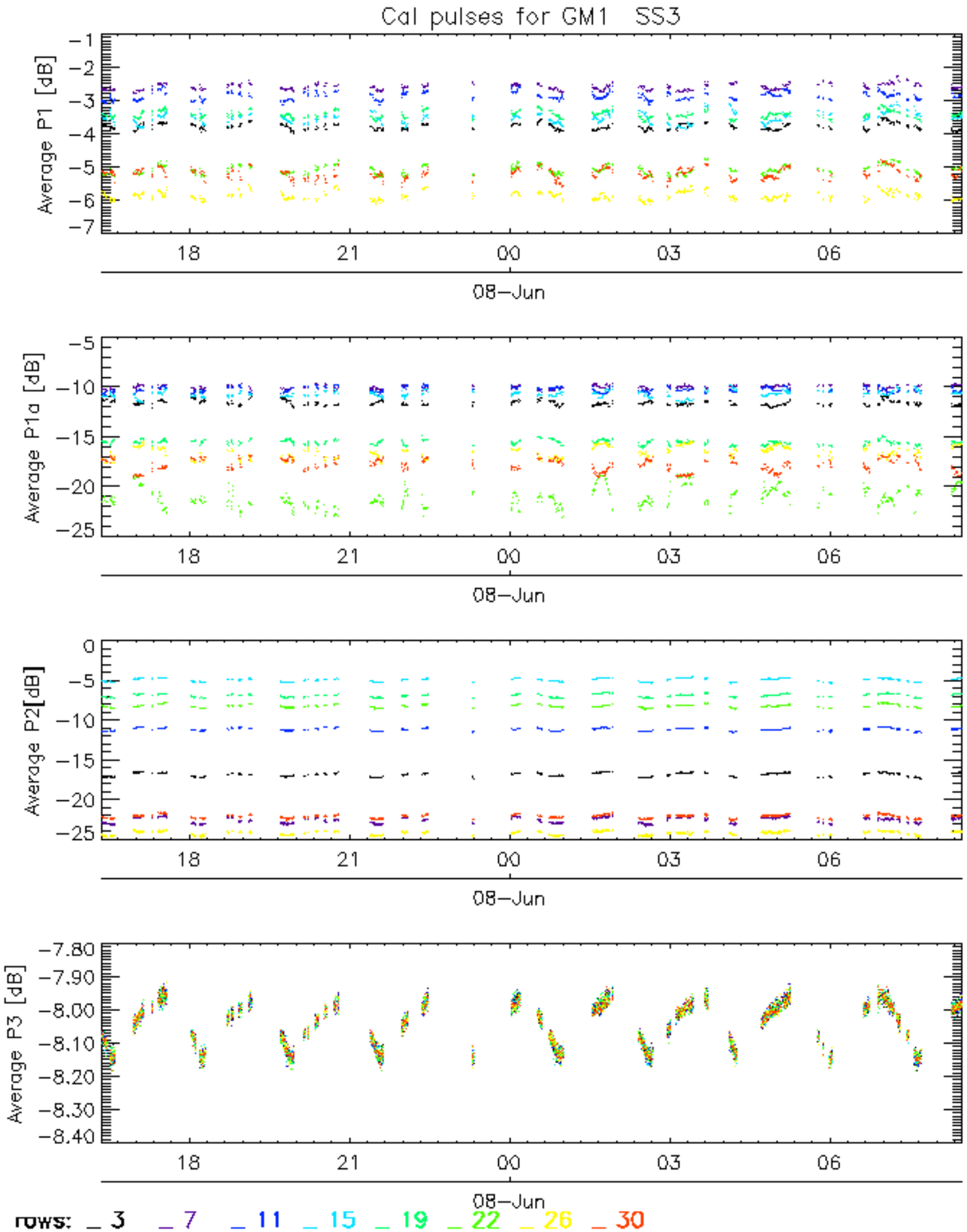
7.6 - Doppler evolution versus ANX for GM1

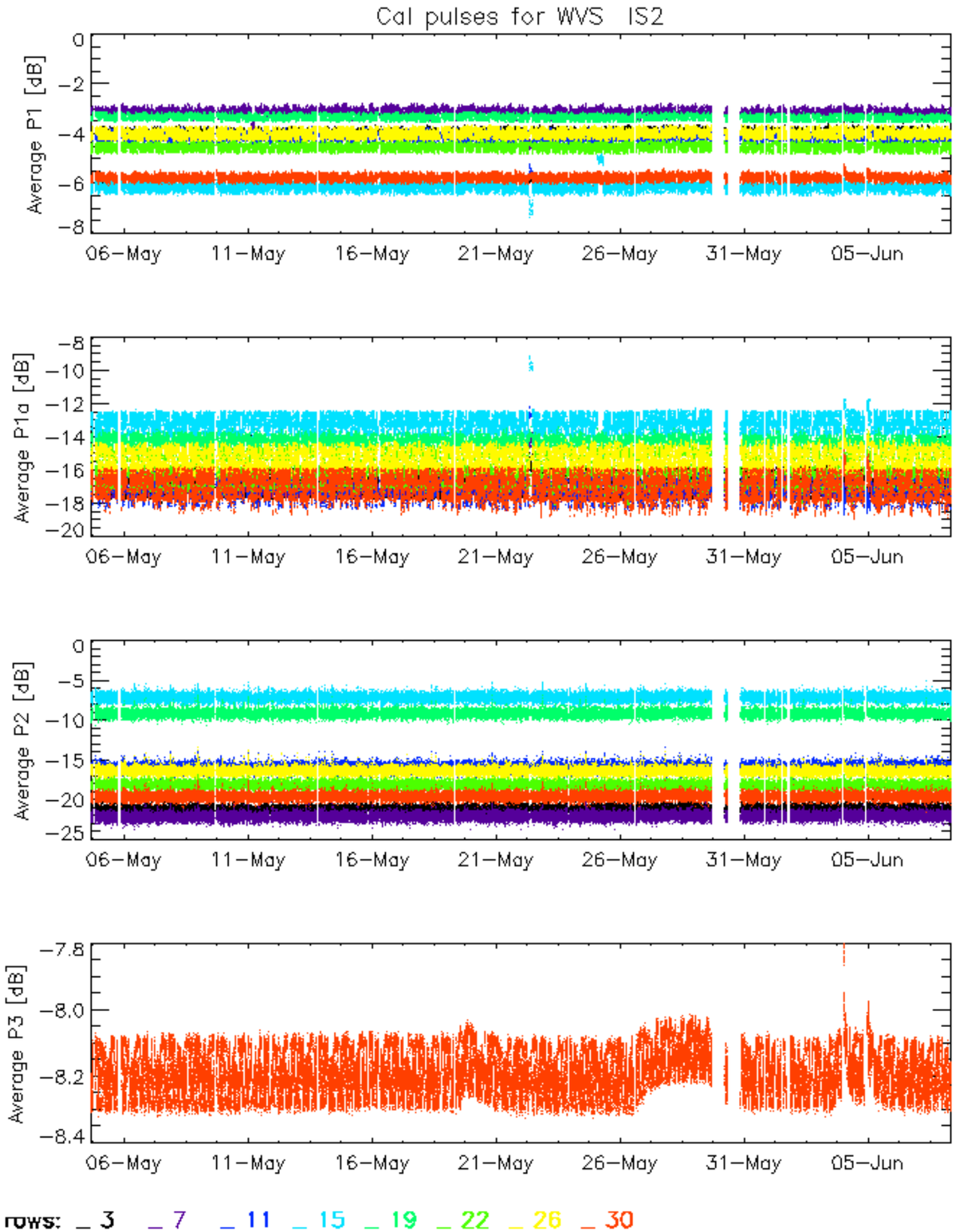
Evolution Doppler error versus ANX


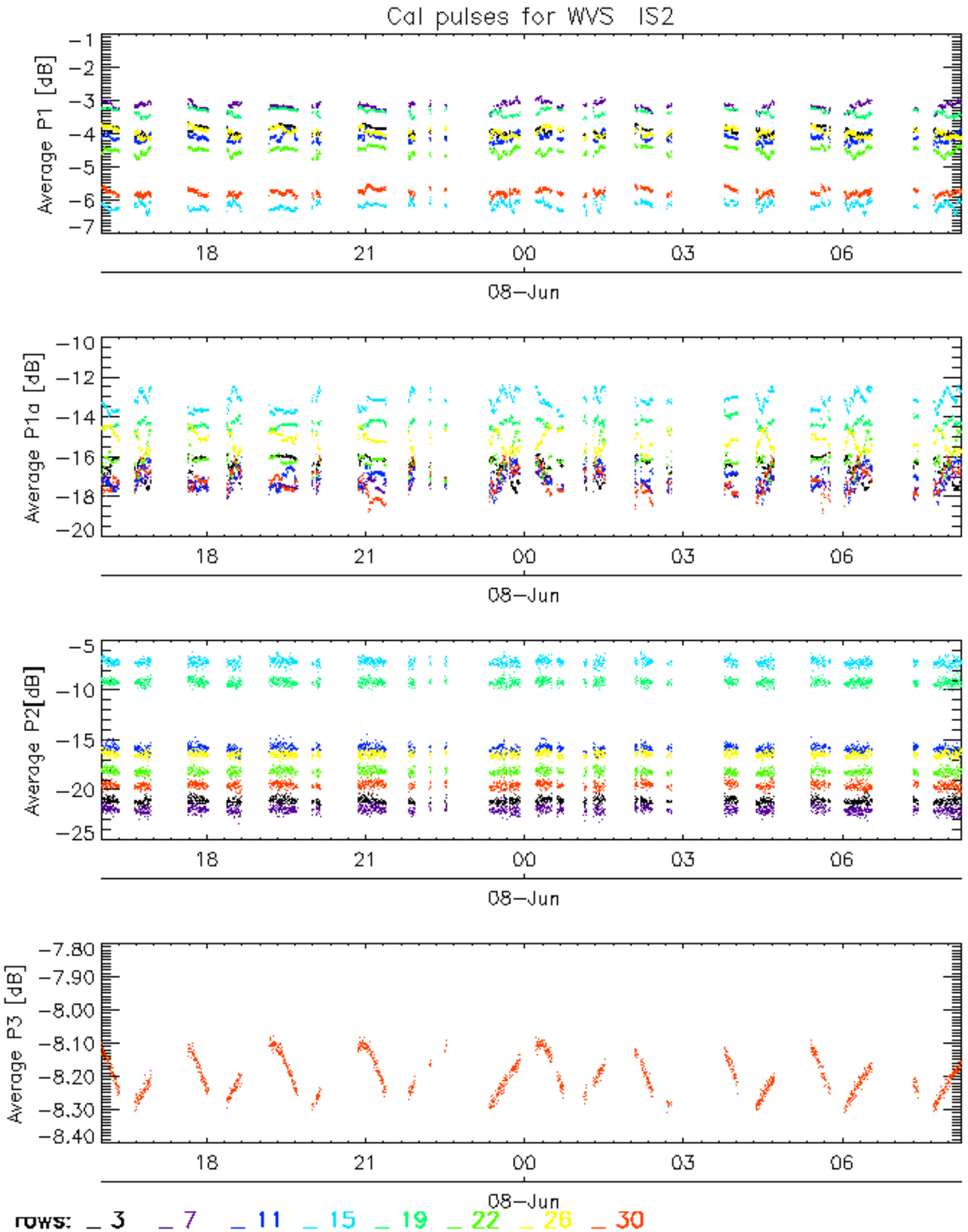

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
08−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
08−Jun
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
08−Jun
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
08−Jun
rows: _ 3 _ 7 _ 11 _ 15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


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


Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
06−May
11−May
16−May
21−May
26−May
31−May
05−Jun
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

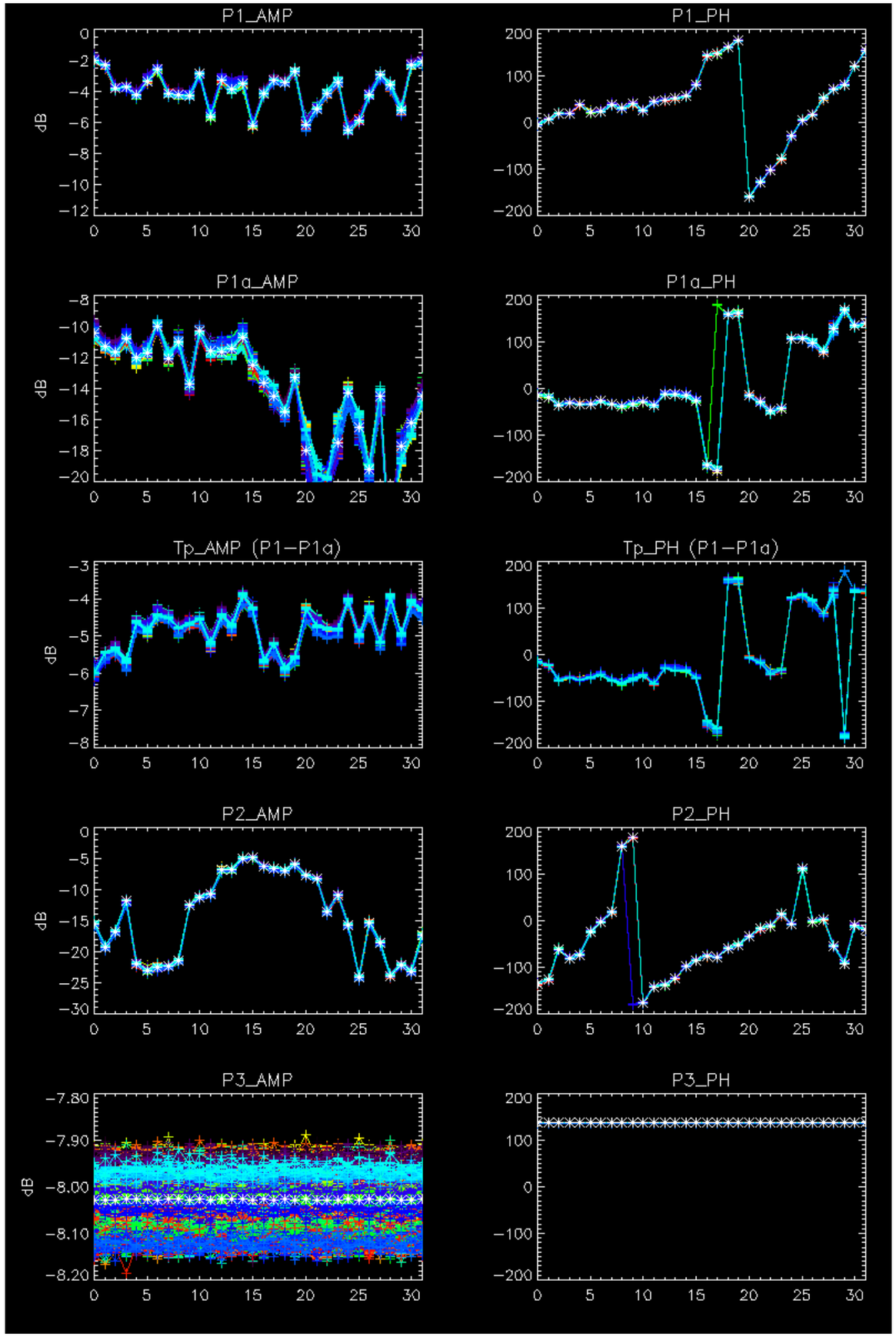

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
08−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
08−Jun
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
08−Jun
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
08−Jun
rows: _ 3 _ 7 _ 11 _ 15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

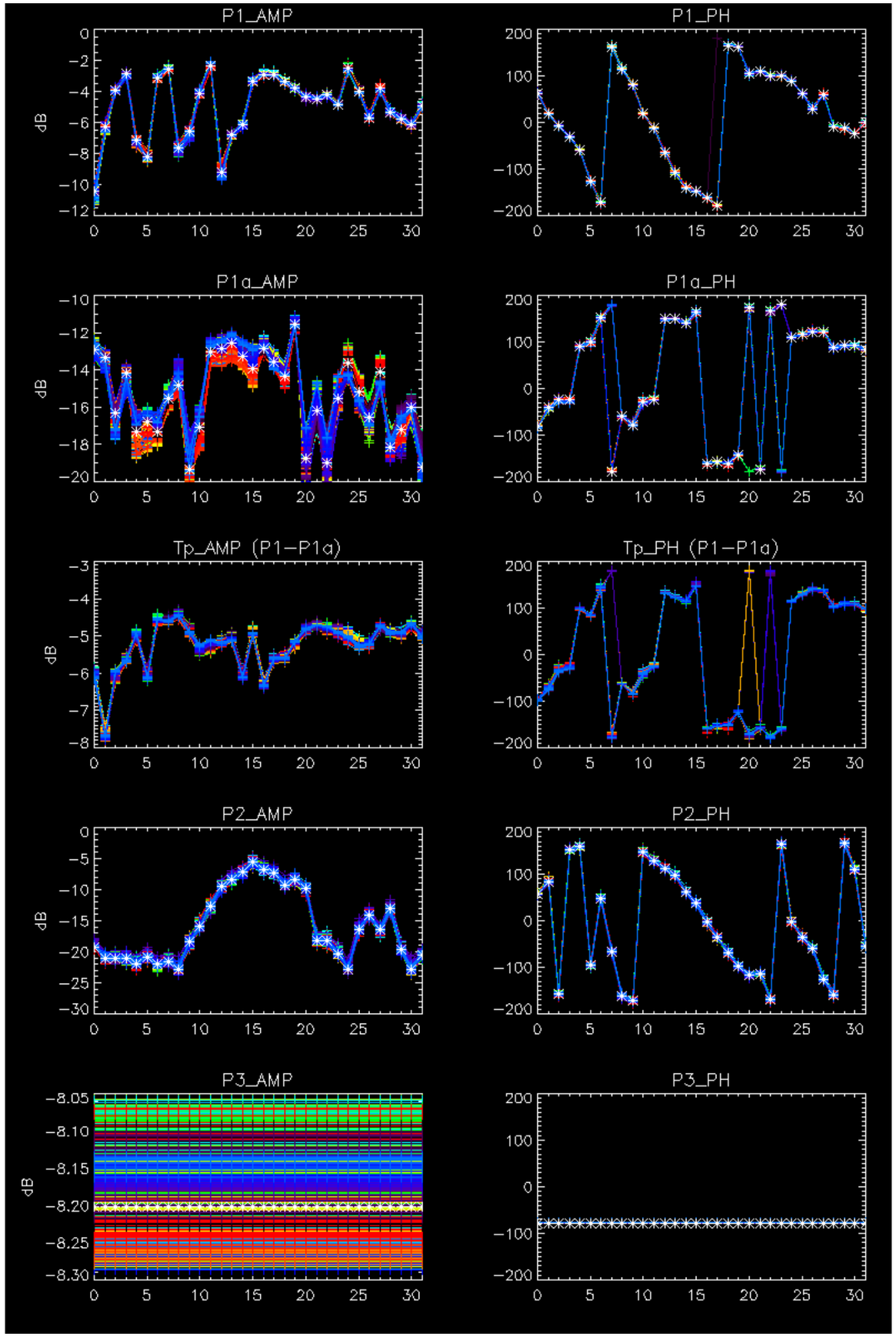

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
−8
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
06−May
11−May
16−May
21−May
26−May
31−May
05−Jun
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

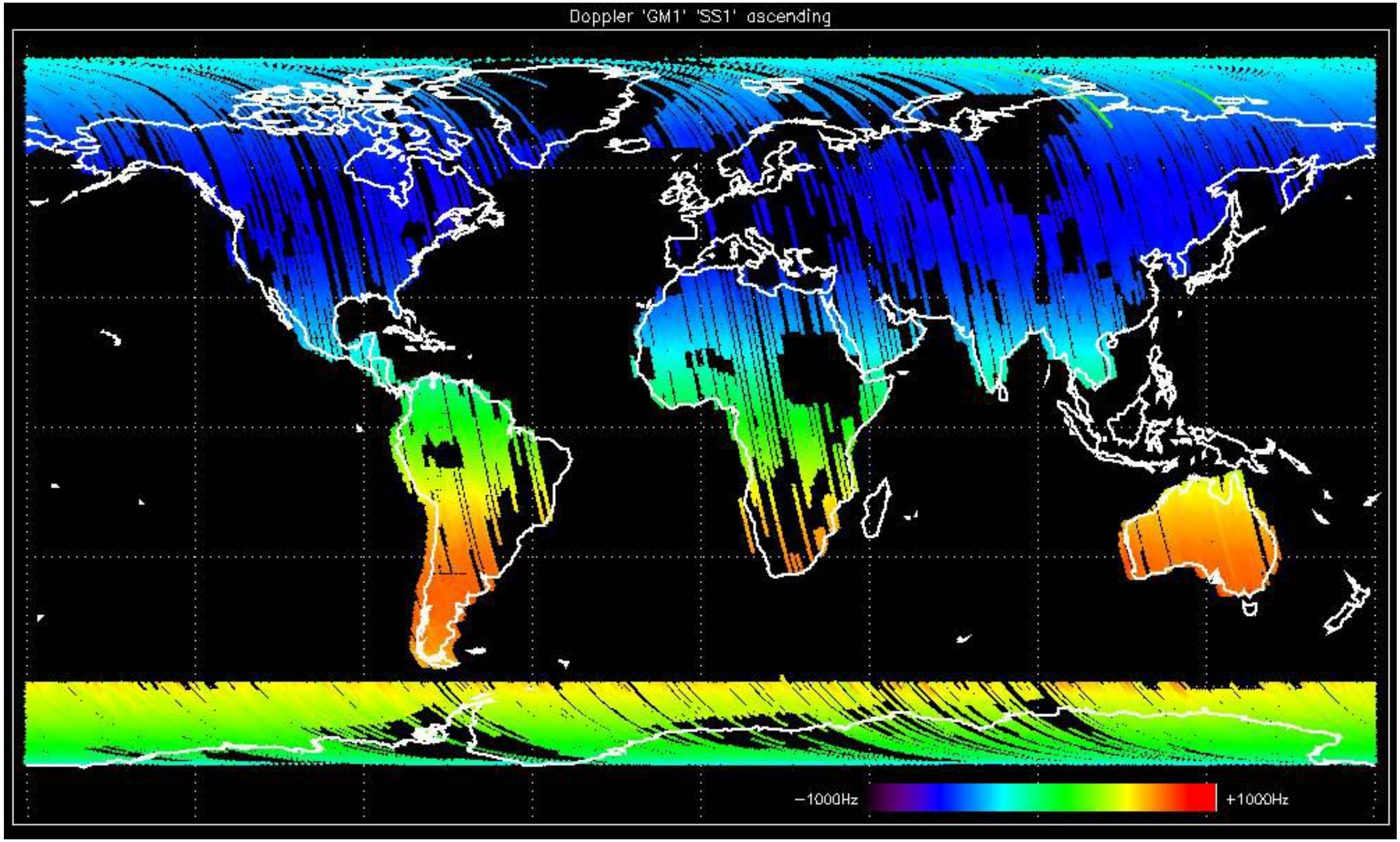
No anomalies observed.

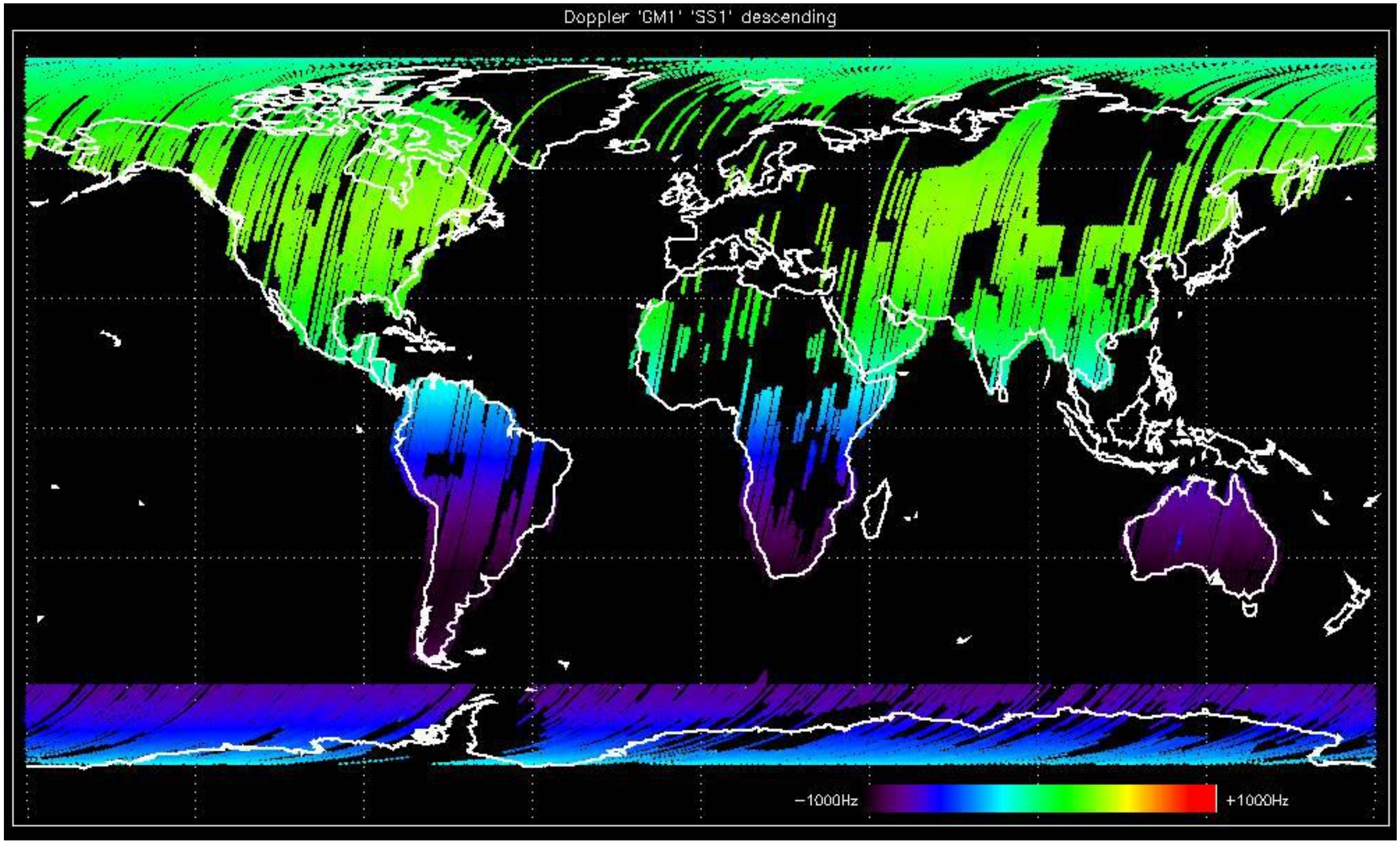

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

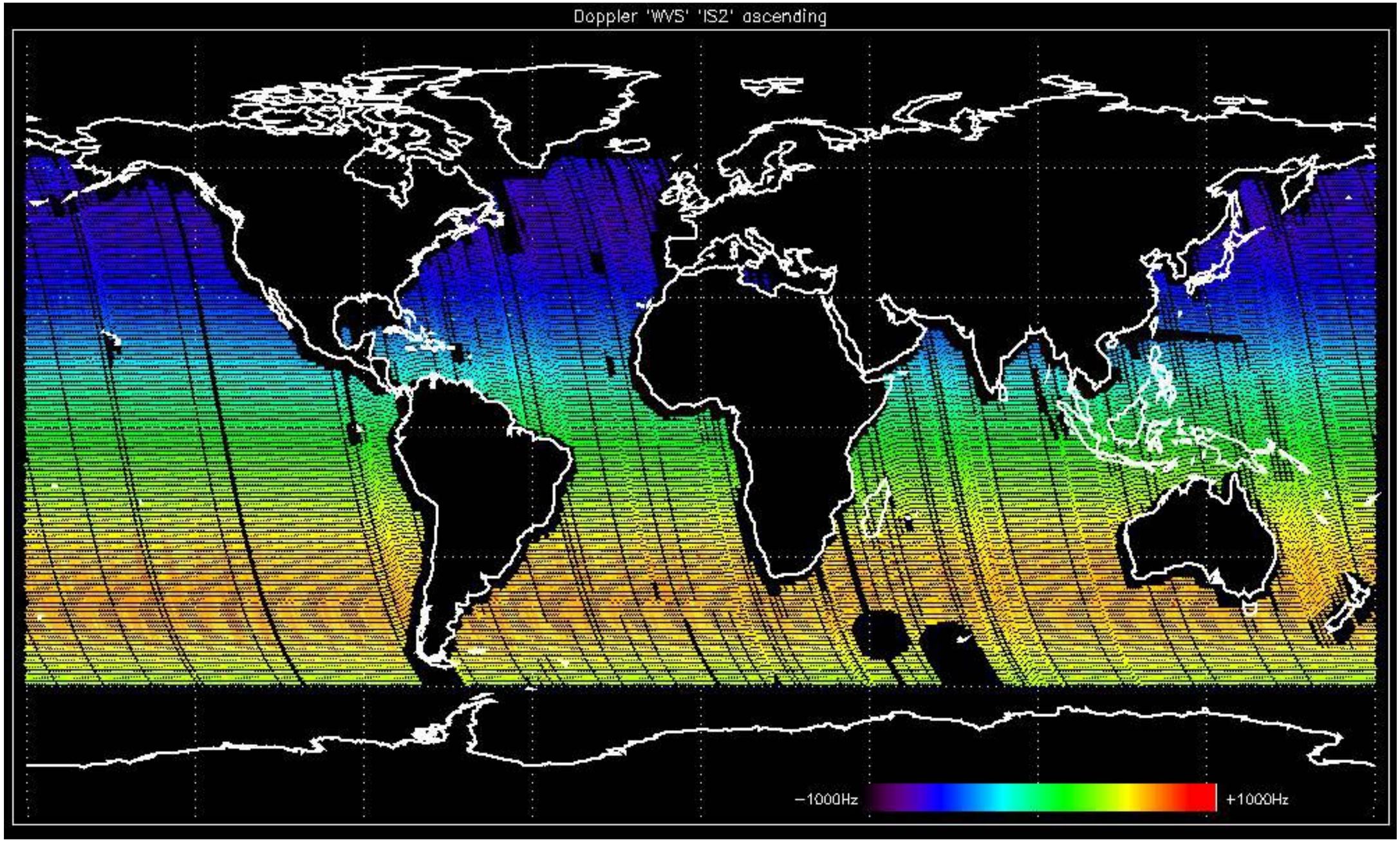

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

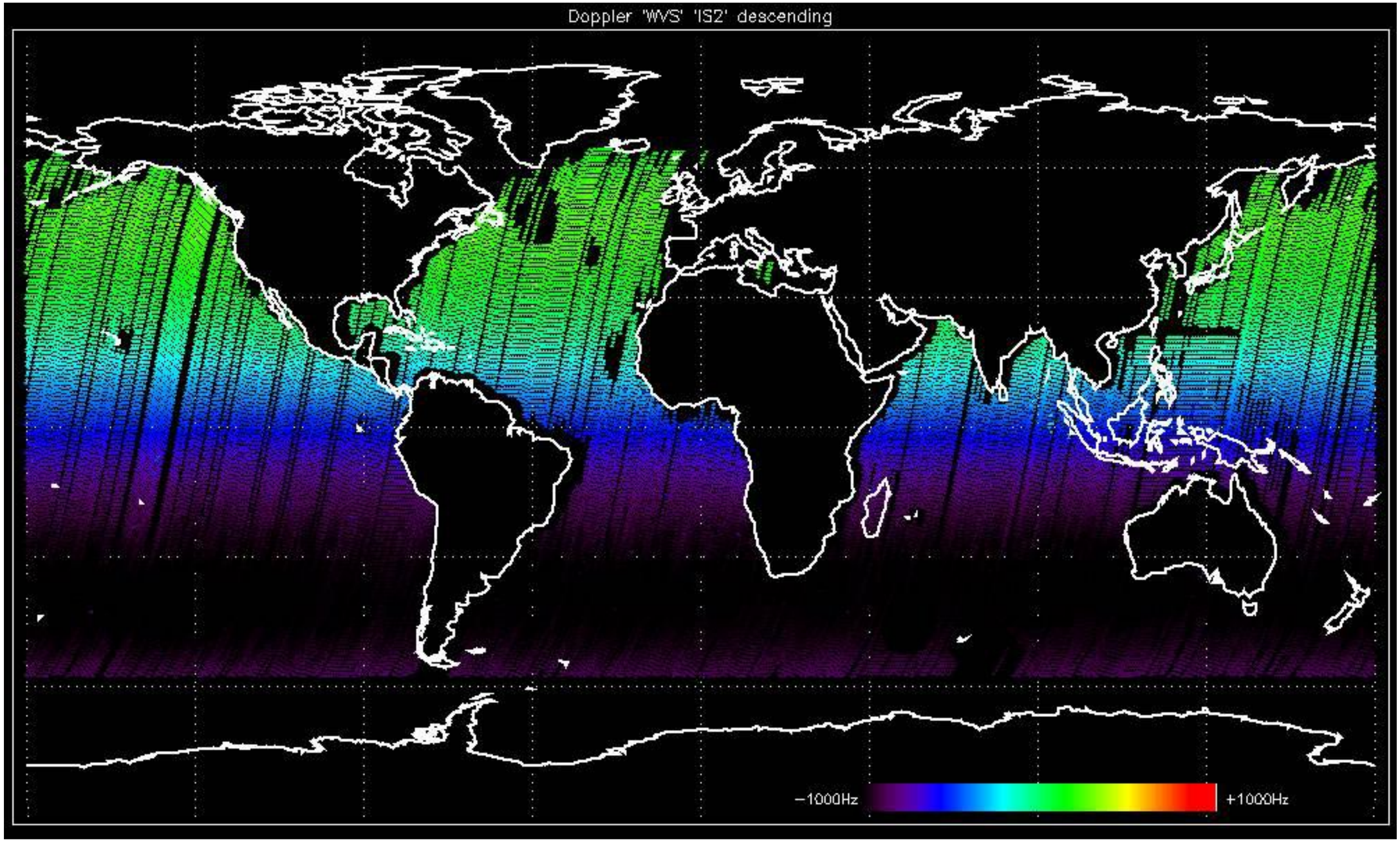
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

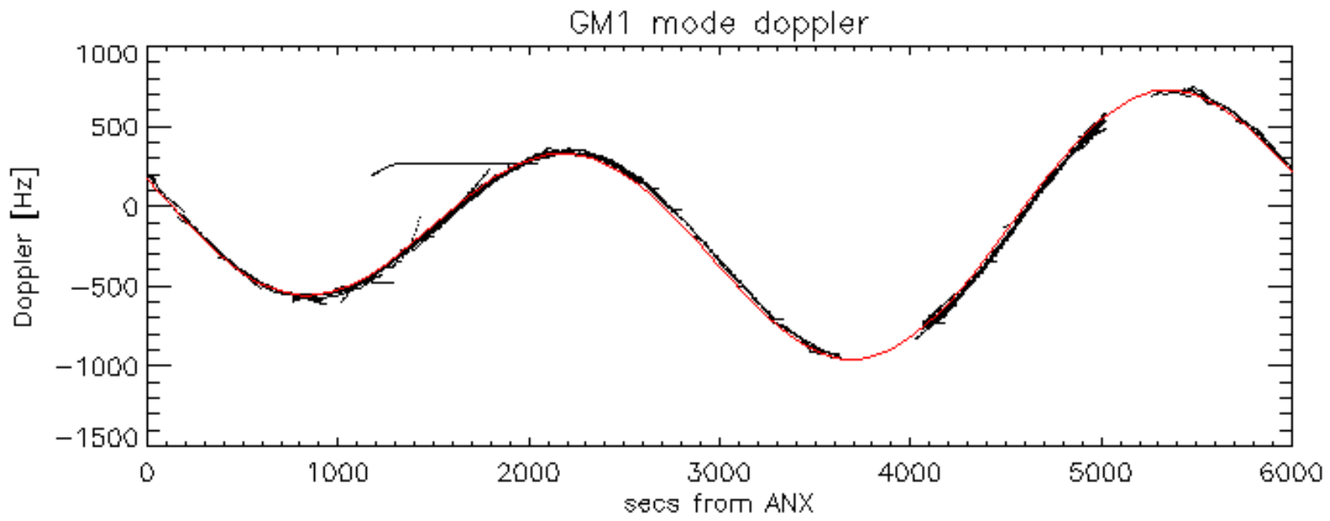
Preliminary report.The data is not yet controled

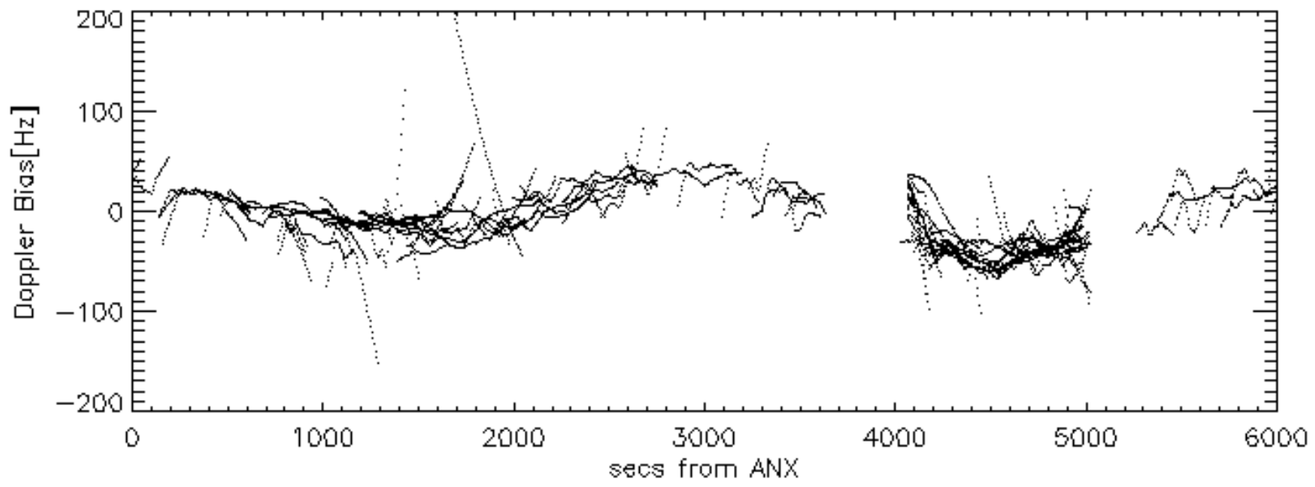

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

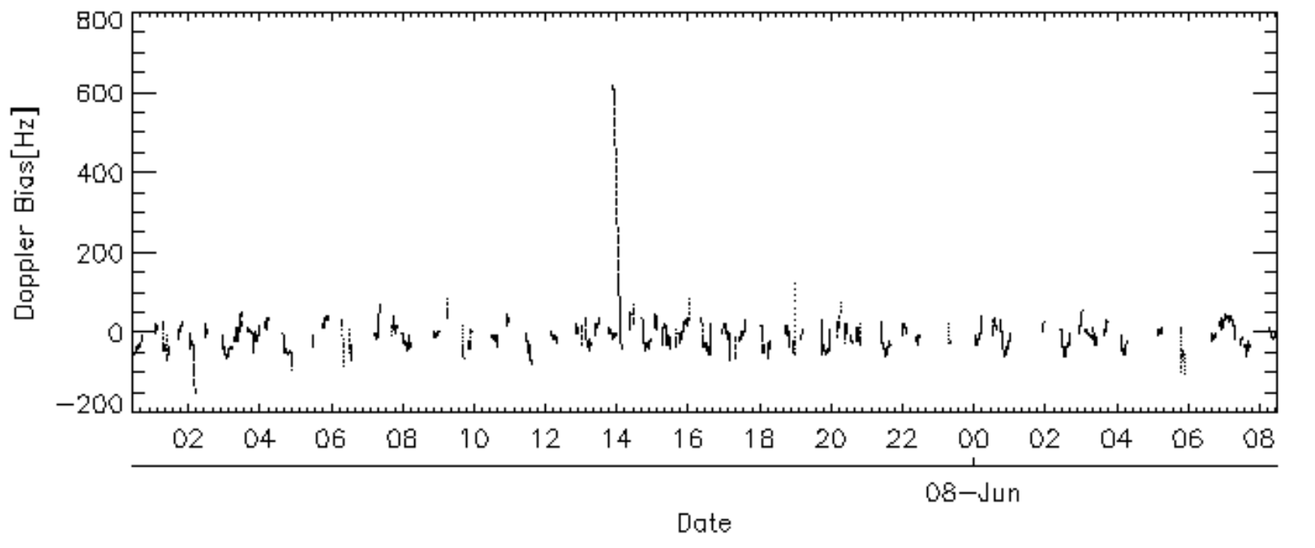

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

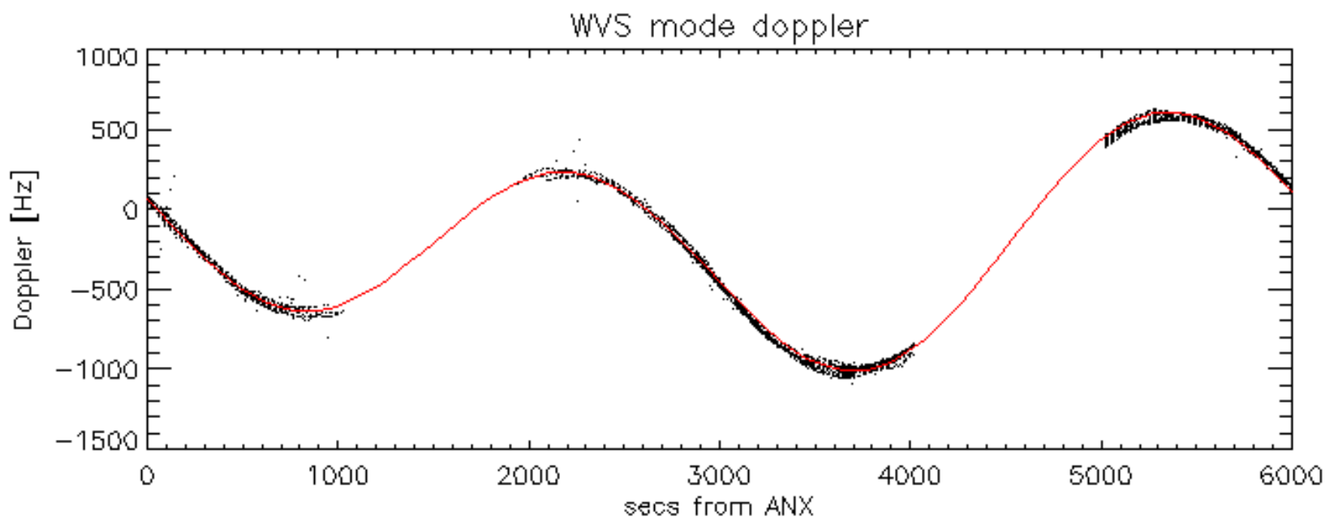

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

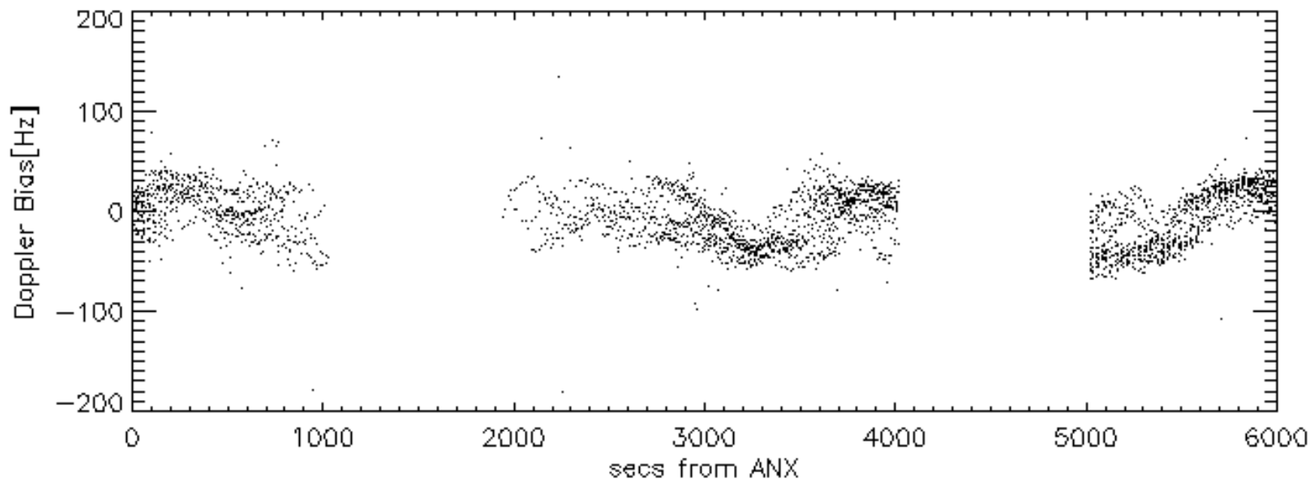

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

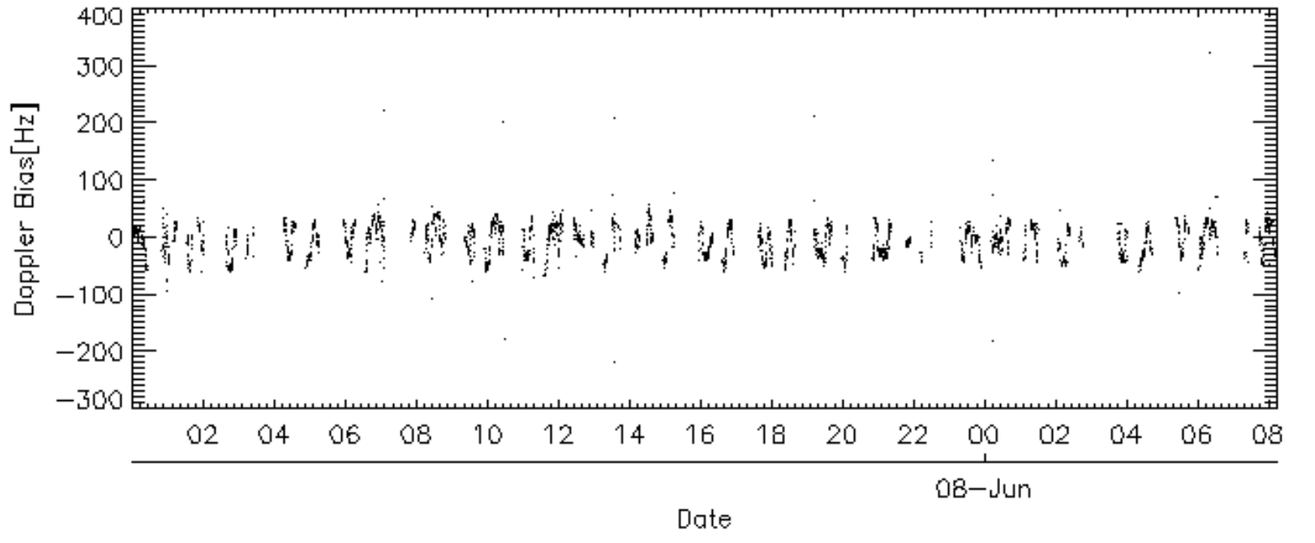

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

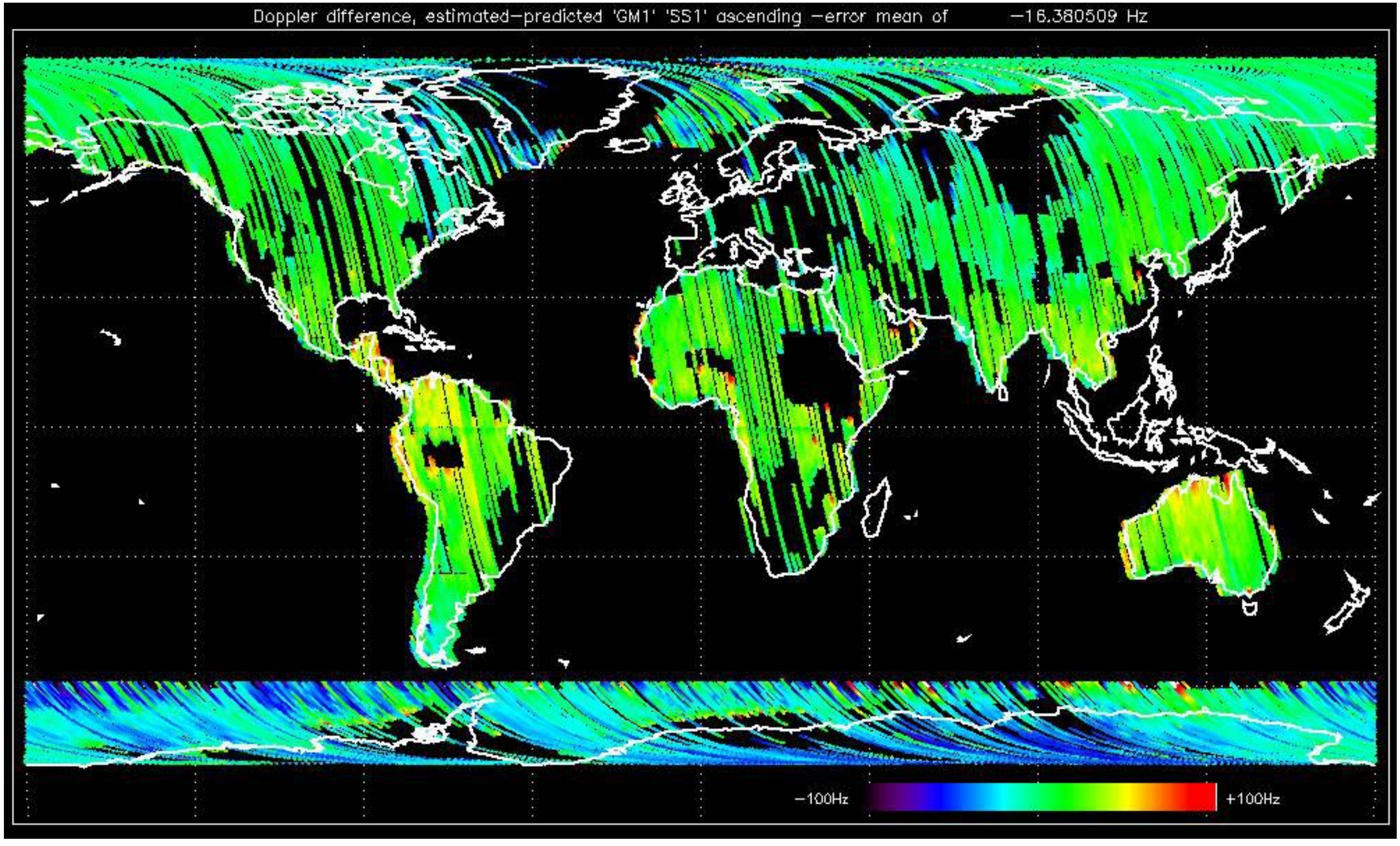

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

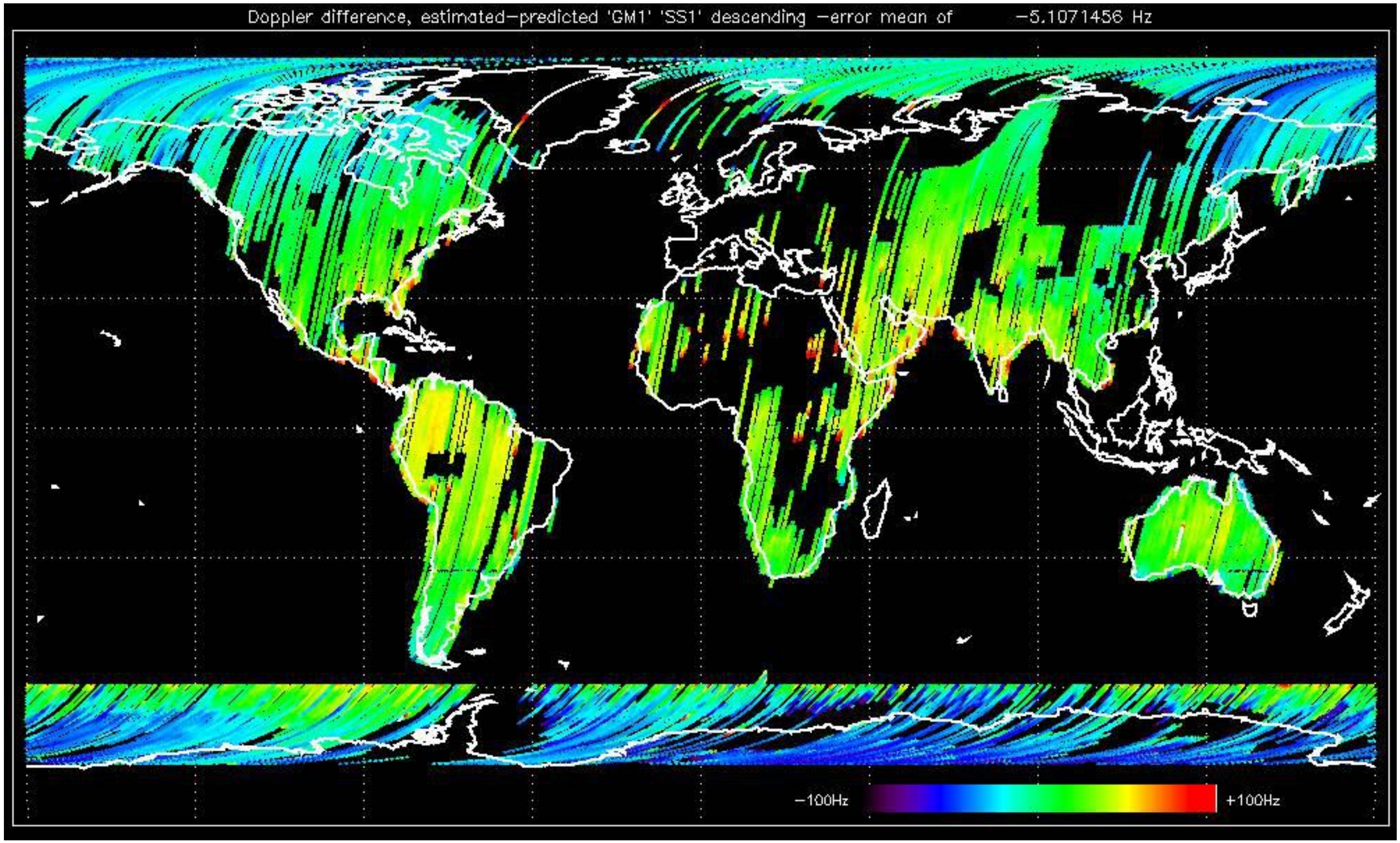

Doppler Bias[Hz]
800
600
400
200
0
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
08−Jun
Date

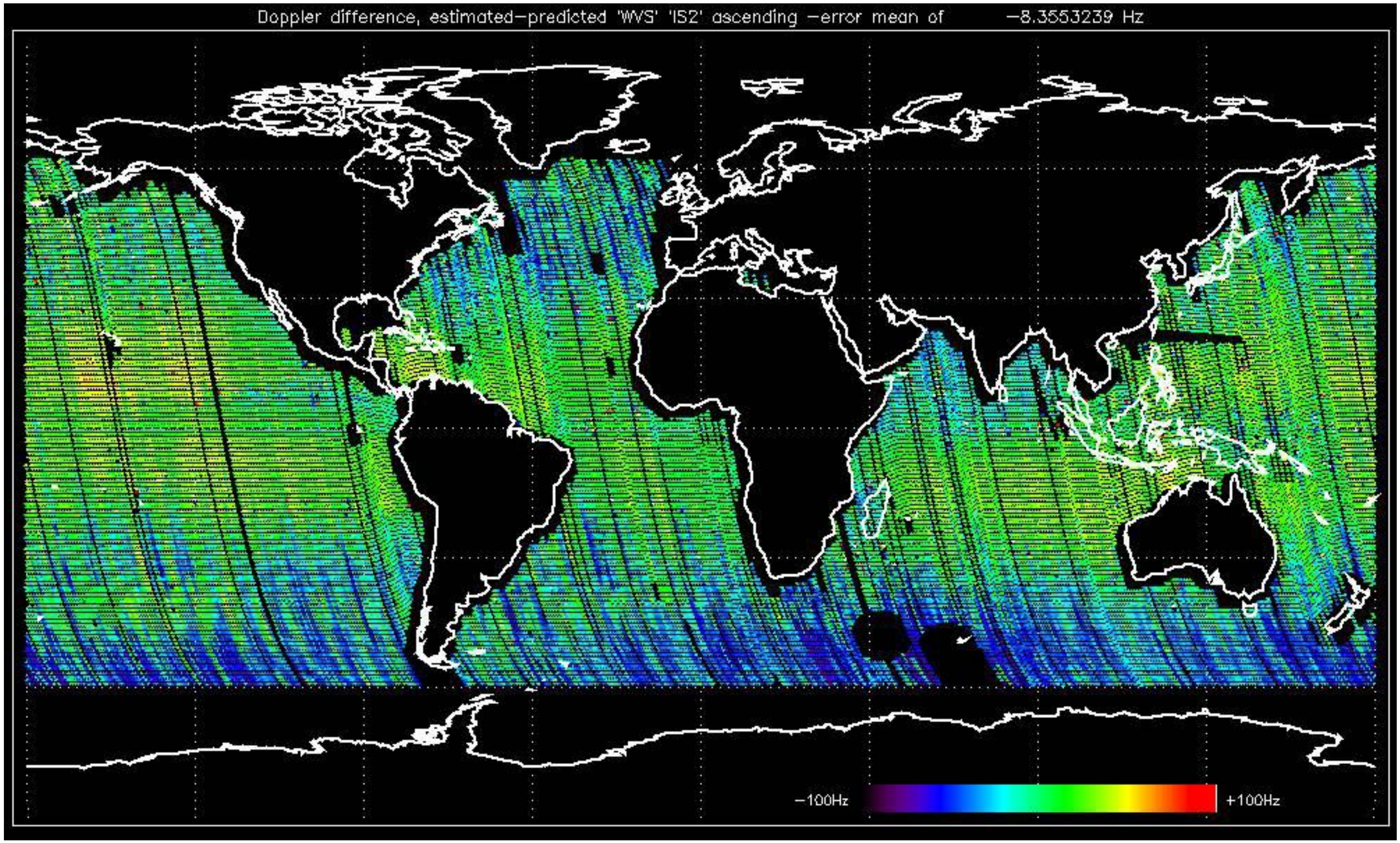

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

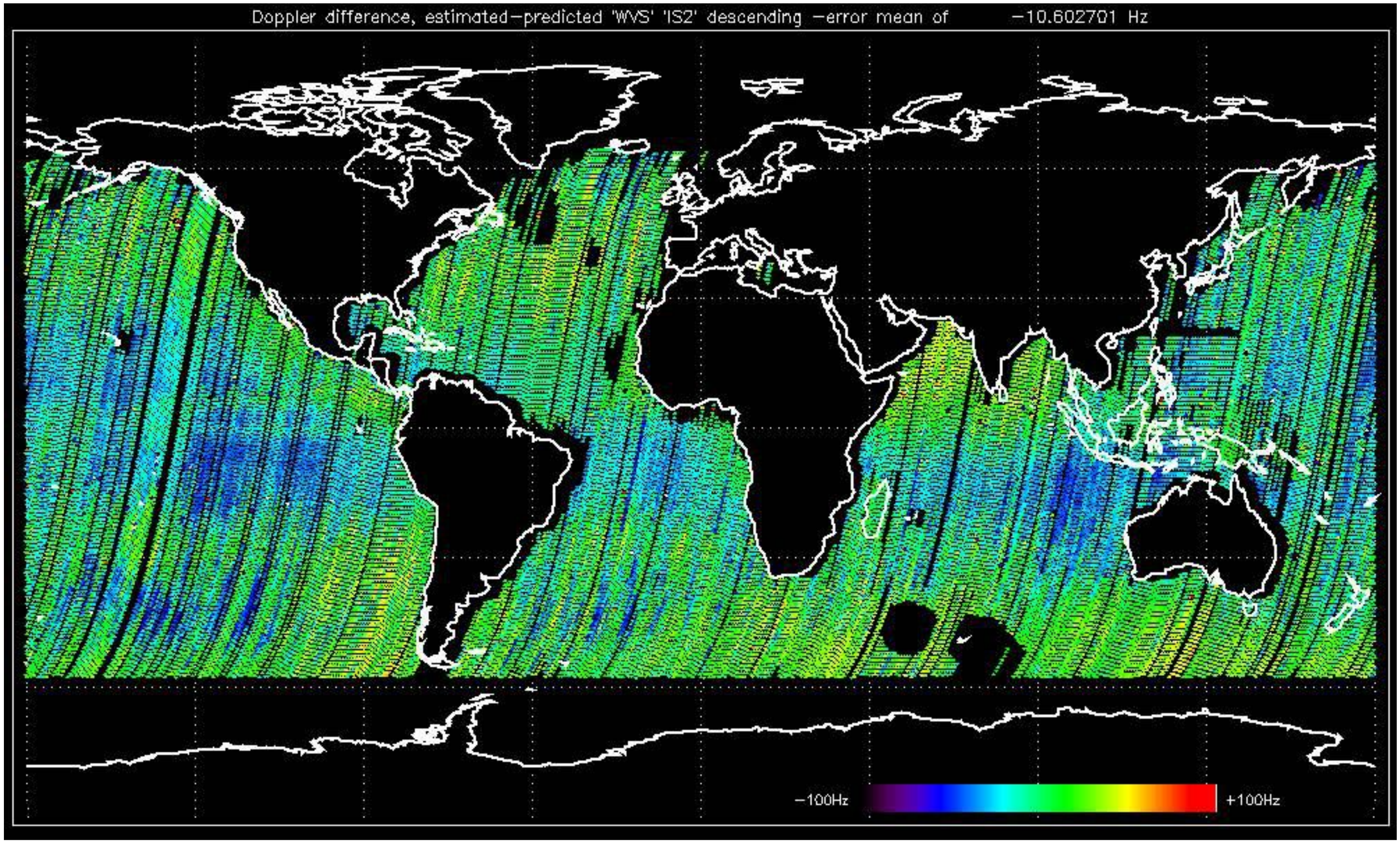

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −16.380509 Hz
−100Hz
+100Hz

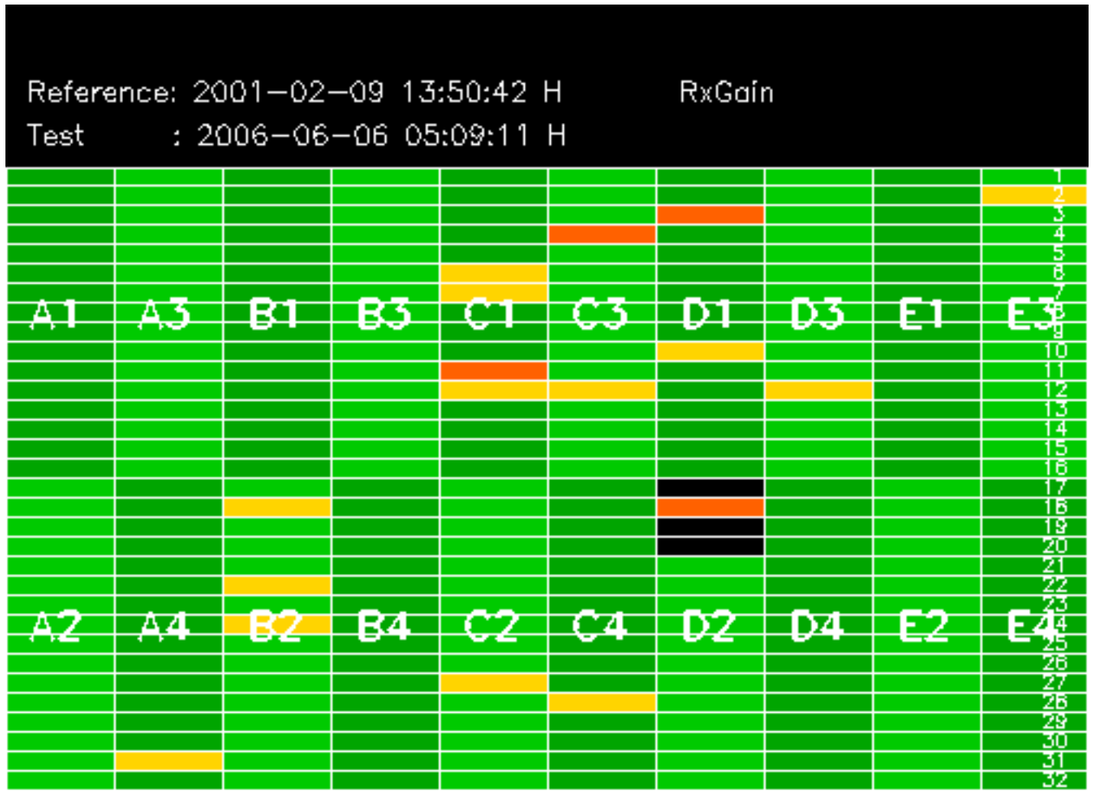

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −5.1071456 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −8.3553239 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.602701 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-06 05:09:11 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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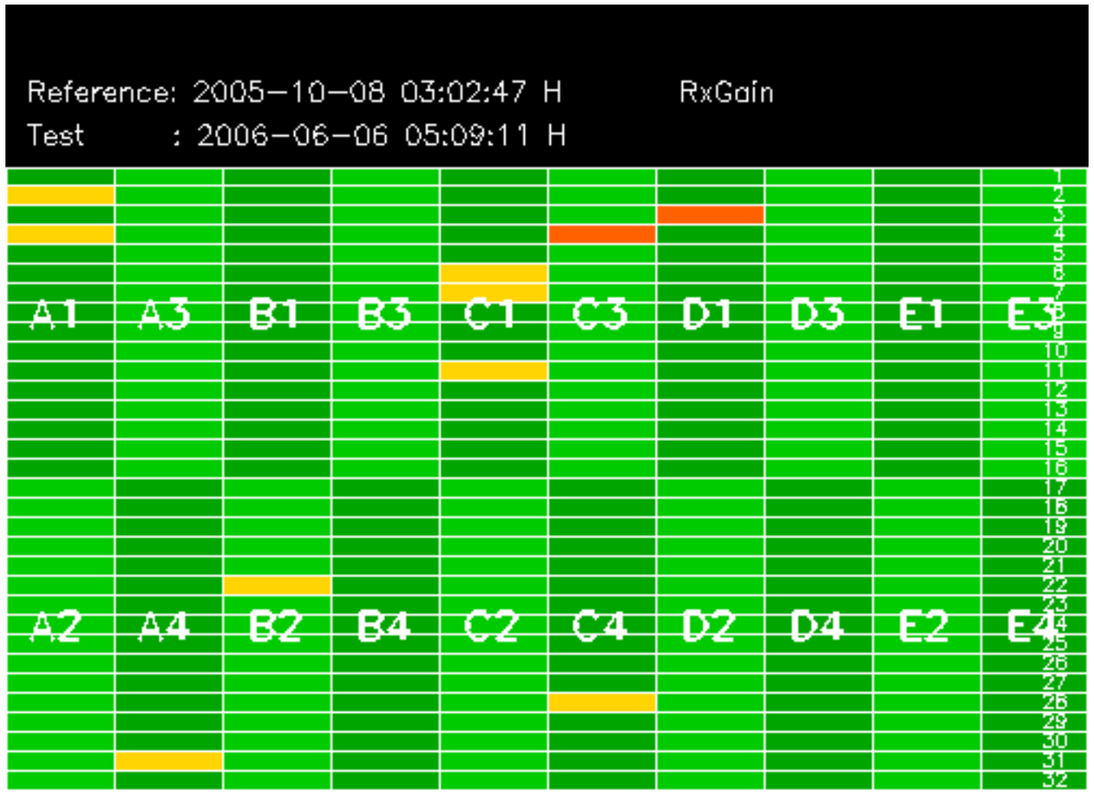
Reference: 2005-10-08 03:02:47 H
Test : 2006-06-06 05:09:11 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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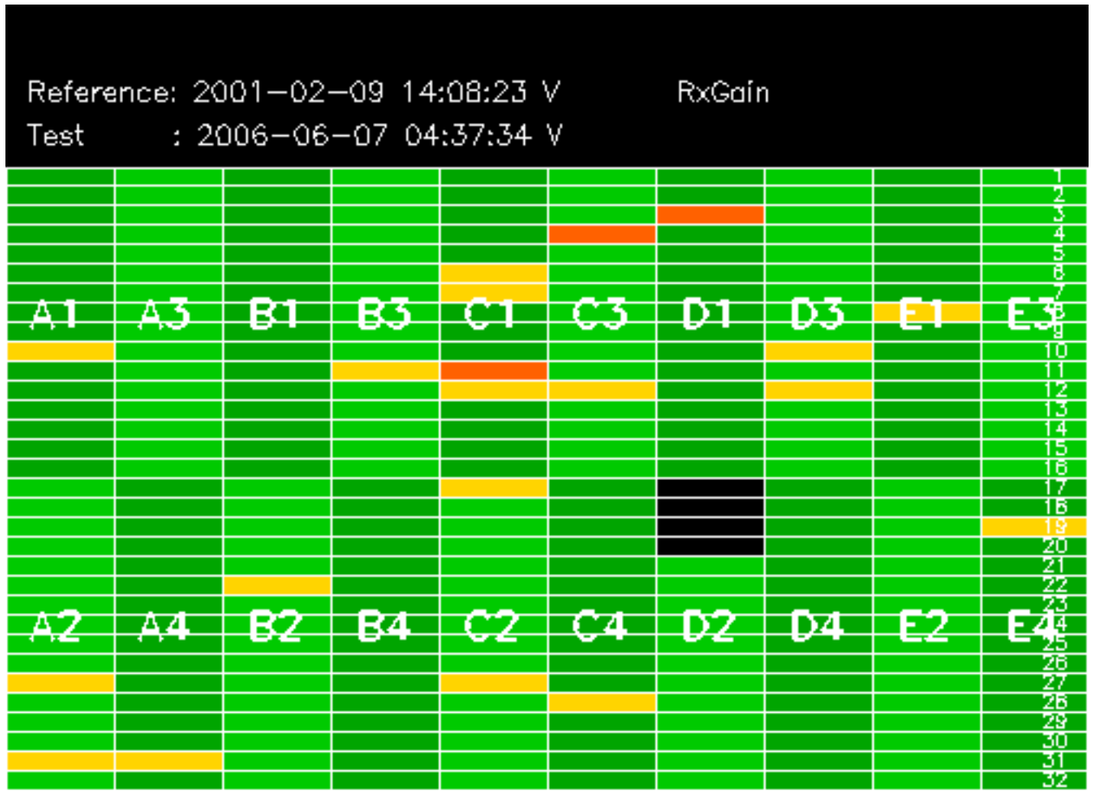
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-07 04:37:34 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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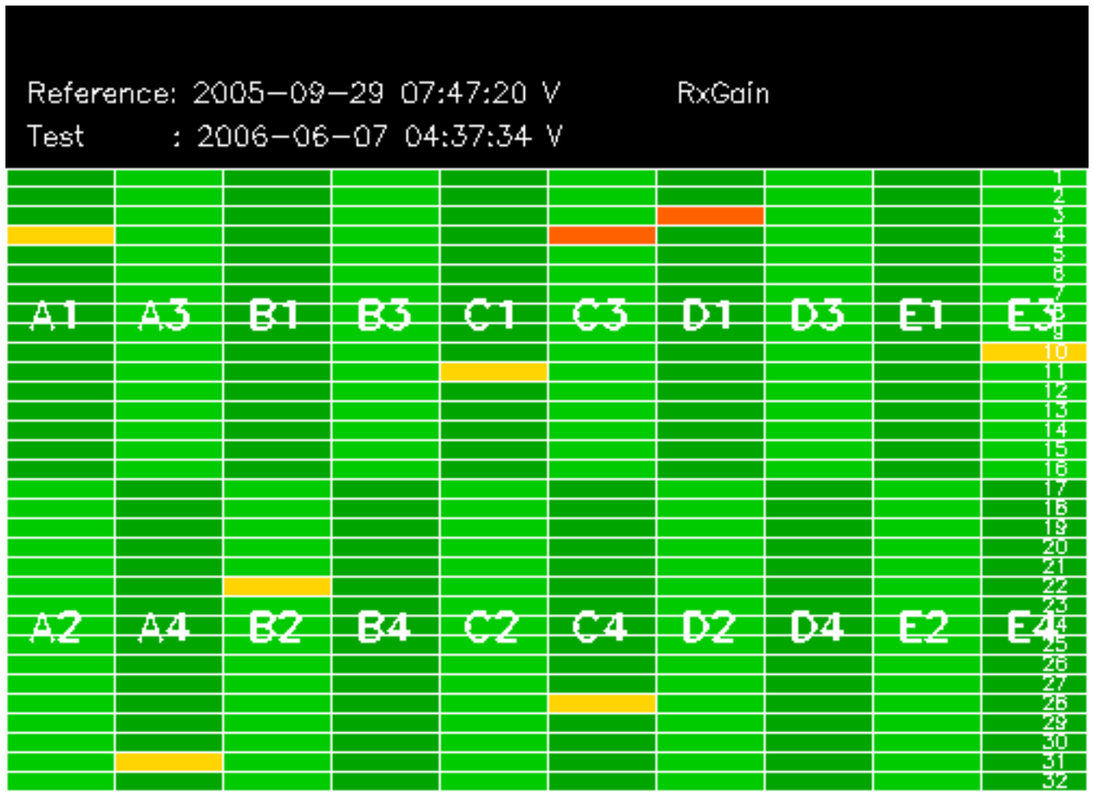
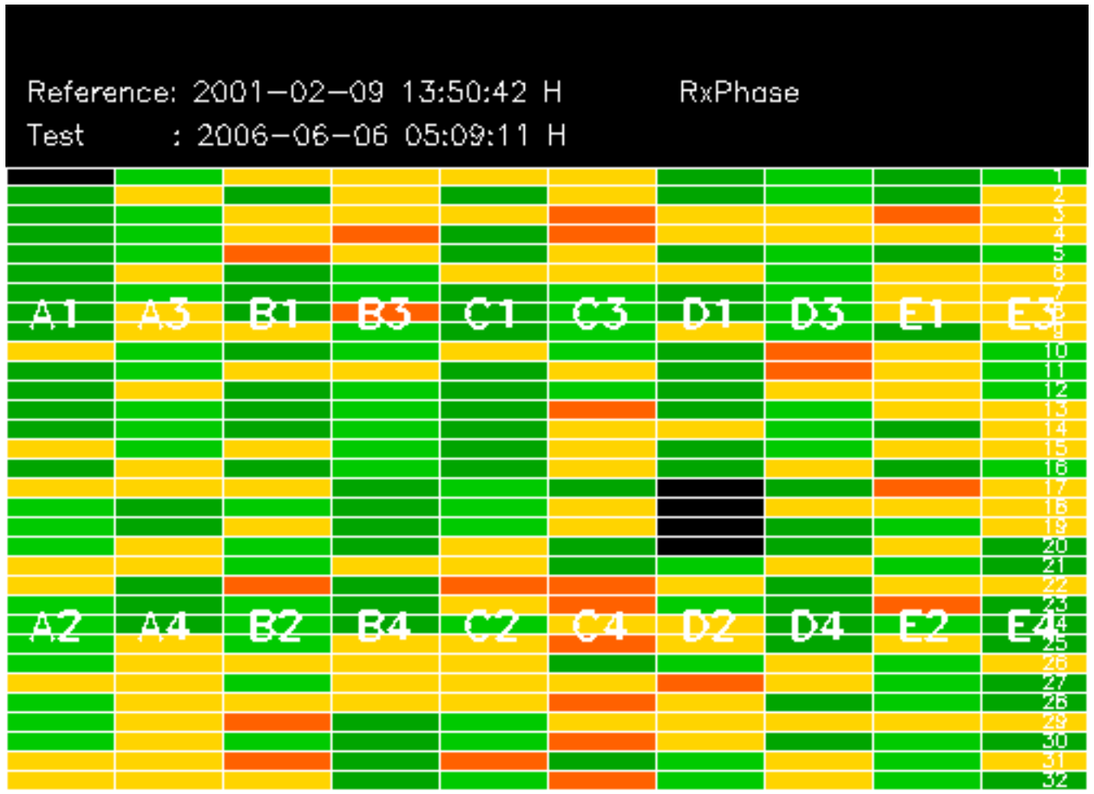

Reference: 2005-09-29 07:47:20 V
Test : 2006-06-07 04:37:34 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-06-06 05:09:11 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-06-06 05:09:11 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
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C4
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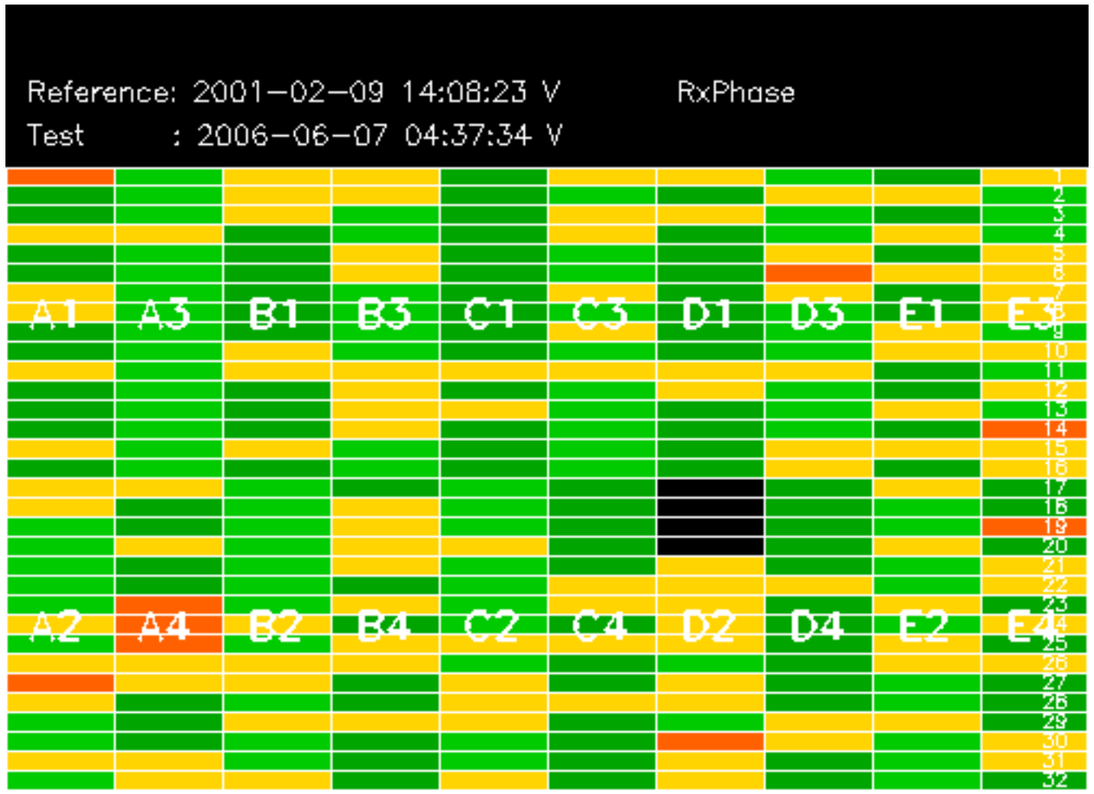
Reference: 2001-02-09 14:08:23 V
RxPhase
Test : 2006-06-07 04:37:34 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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Reference: 2005-09-29 07:47:20 V
RxPhase
Test : 2006-06-07 04:37:34 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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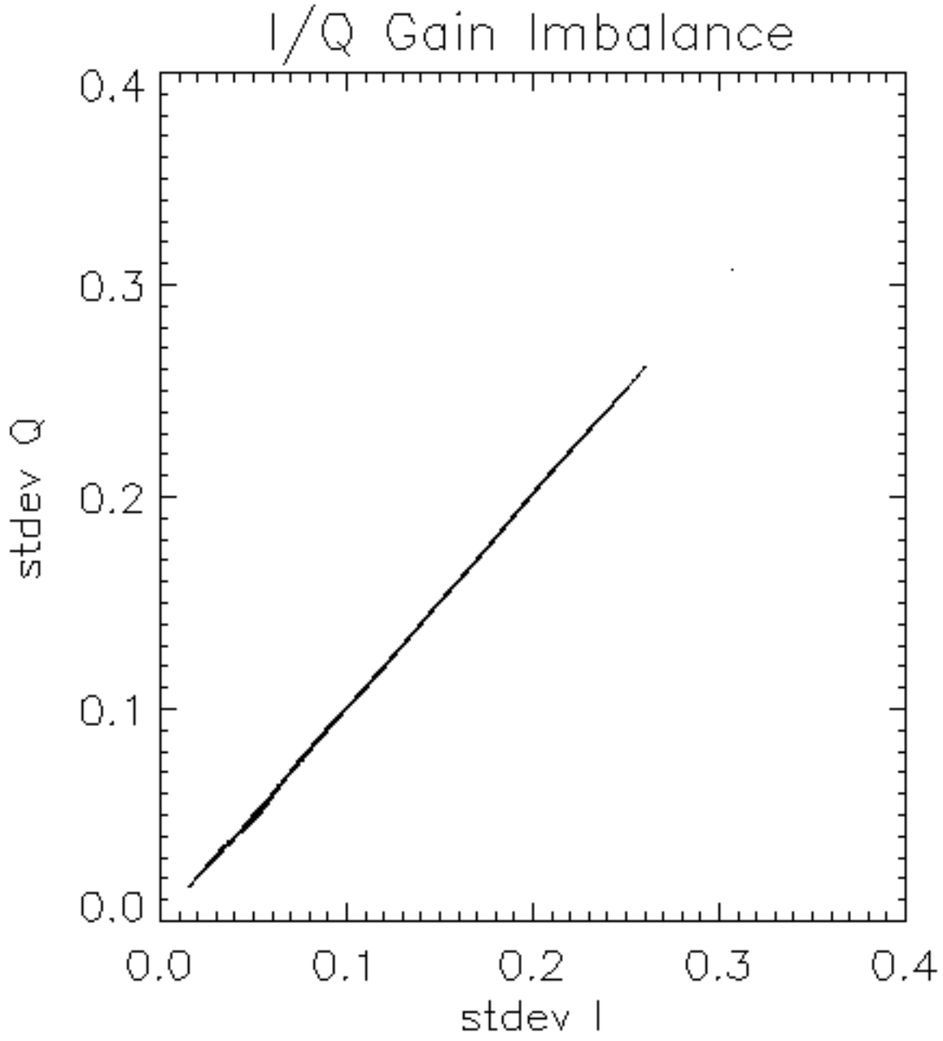
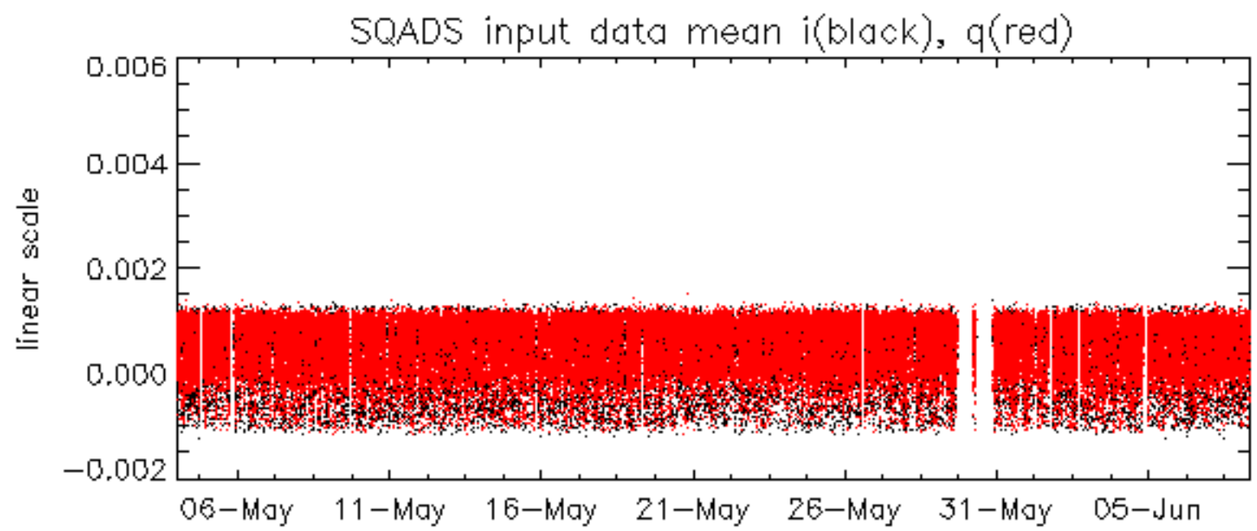
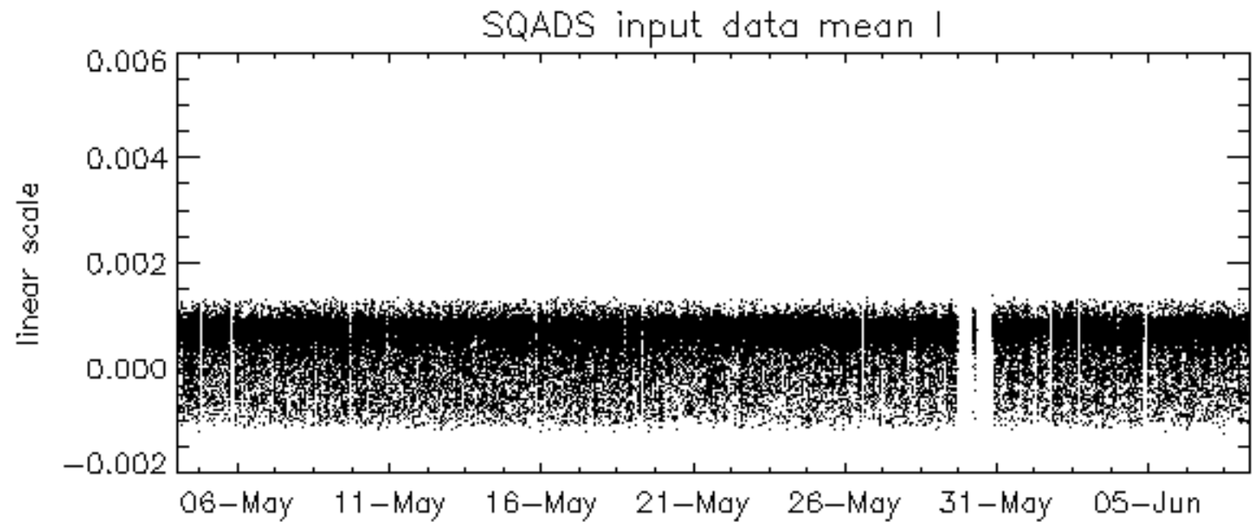
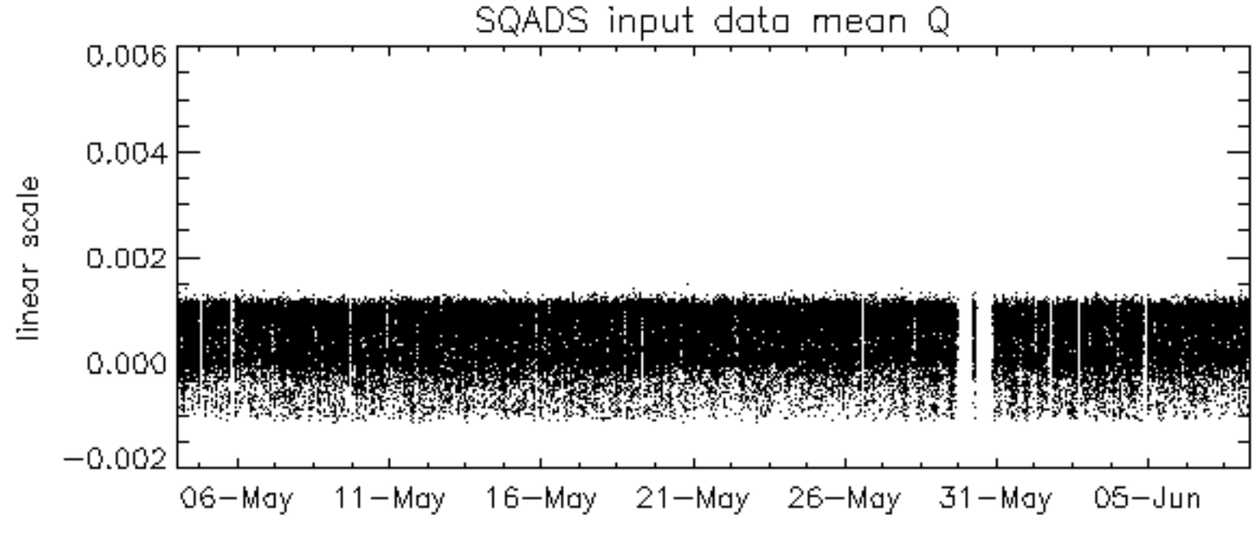
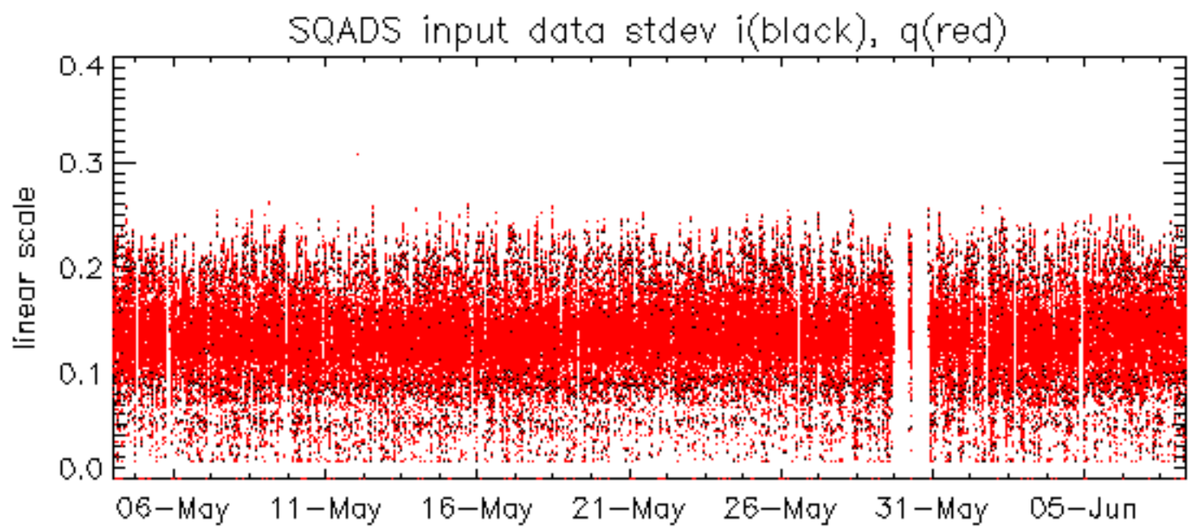
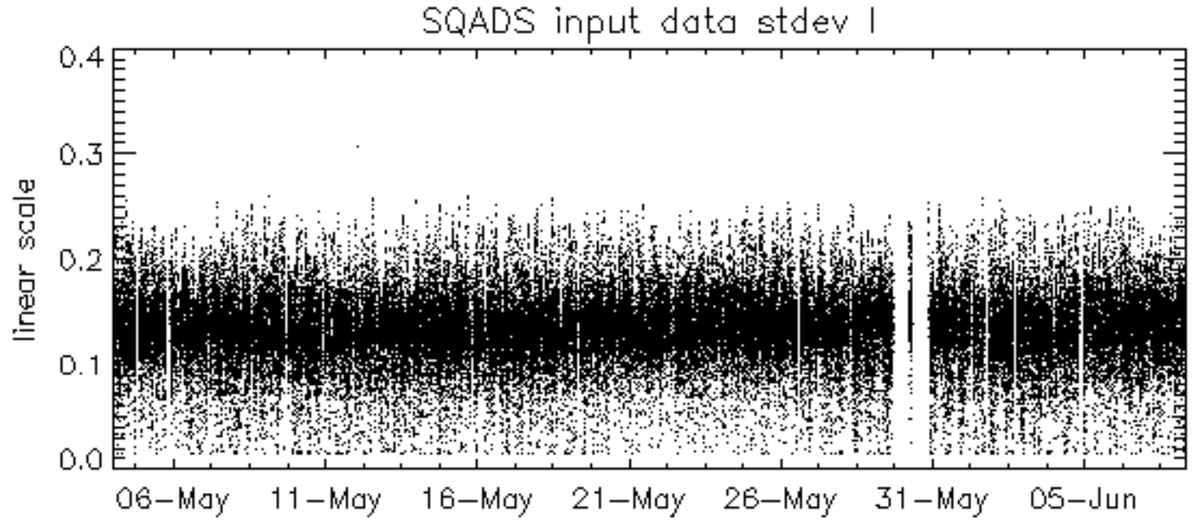

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

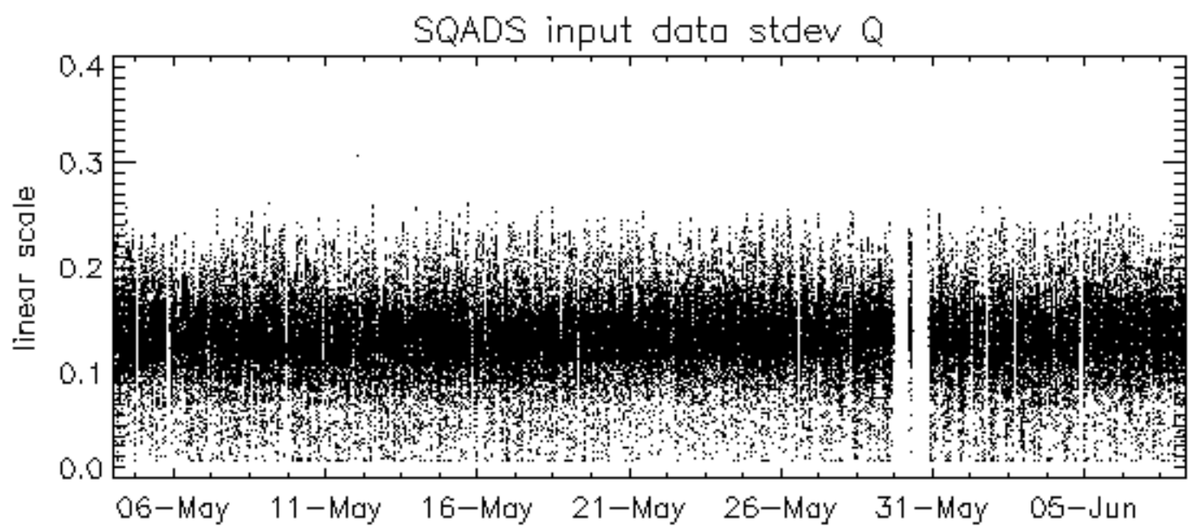

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
06−May
11−May
16−May
21−May
26−May
31−May
05−Jun

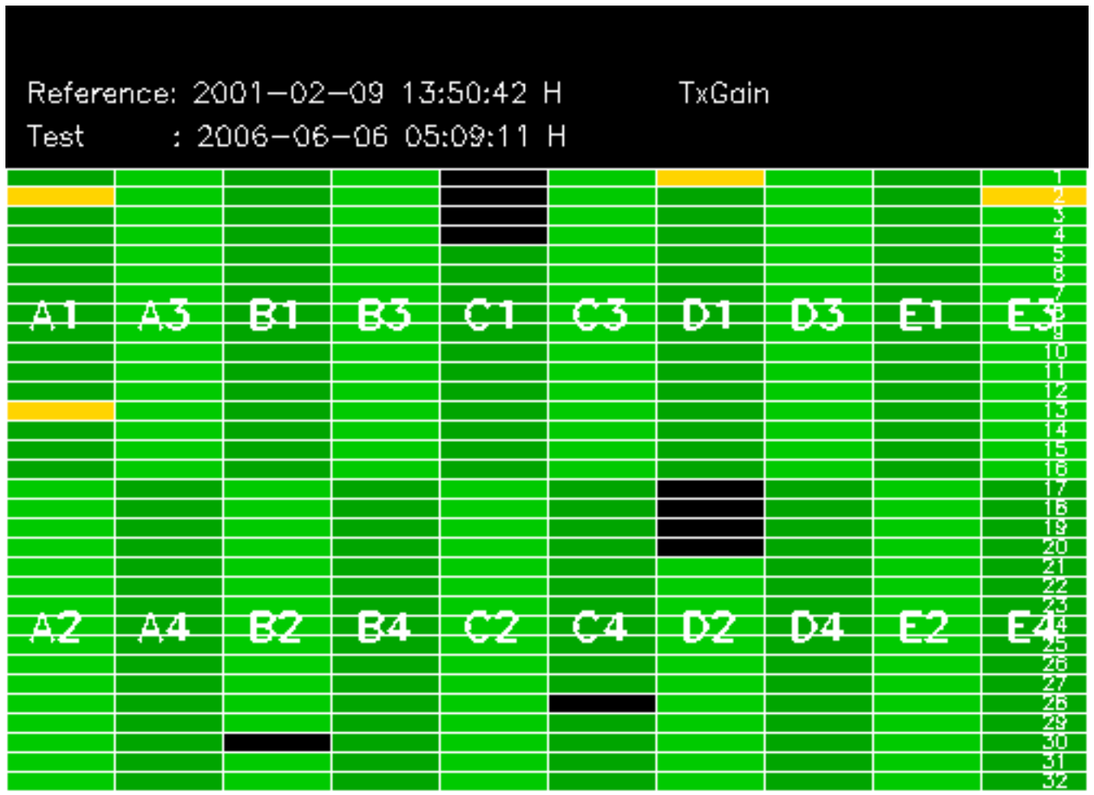

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
06−May
11−May
16−May
21−May
26−May
31−May
05−Jun

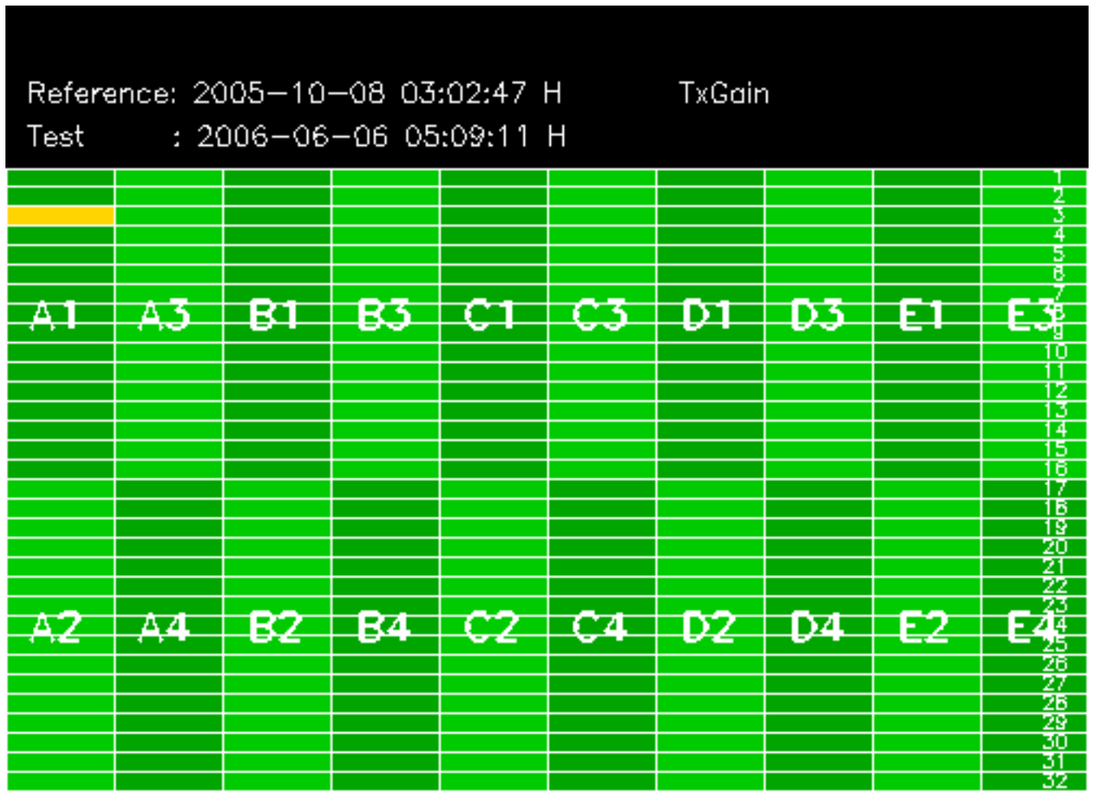

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
06−May
11−May
16−May
21−May
26−May
31−May
05−Jun


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
06−May
11−May
16−May
21−May
26−May
31−May
05−Jun


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
06−May
11−May
16−May
21−May
26−May
31−May
05−Jun


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
06−May
11−May
16−May
21−May
26−May
31−May
05−Jun


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-06 05:09:11 H
TxGain
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 : 2006-06-06 05:09:11 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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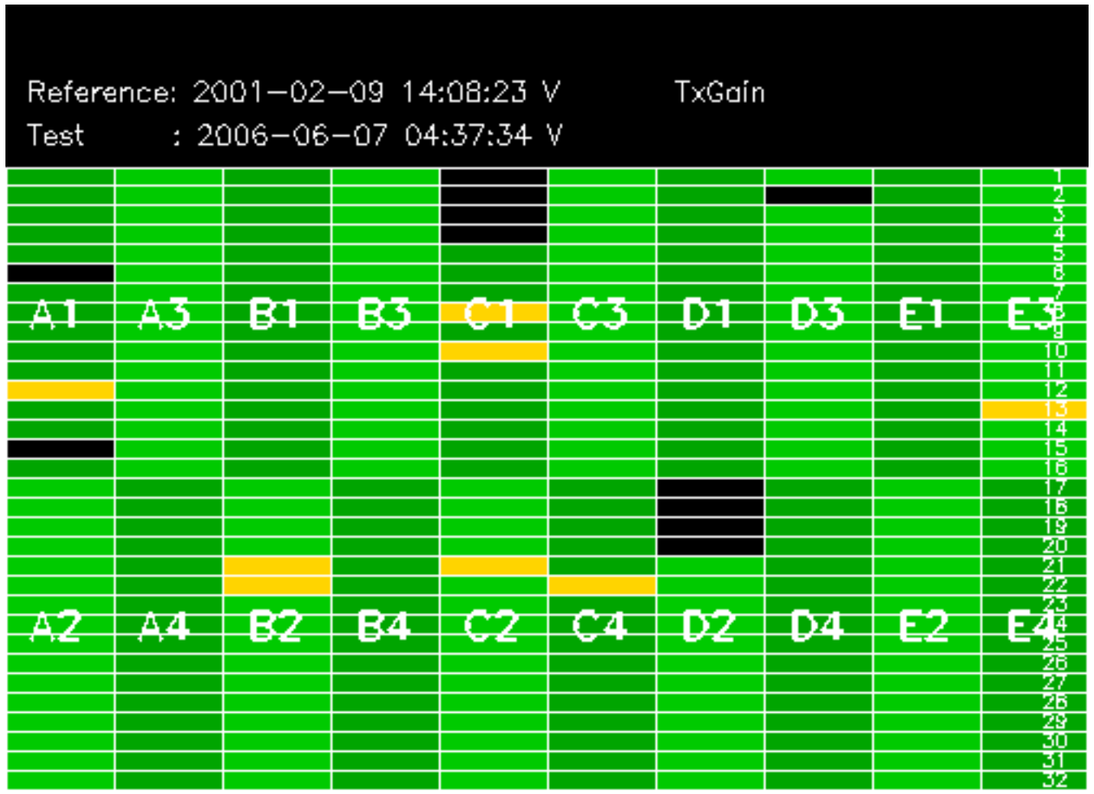
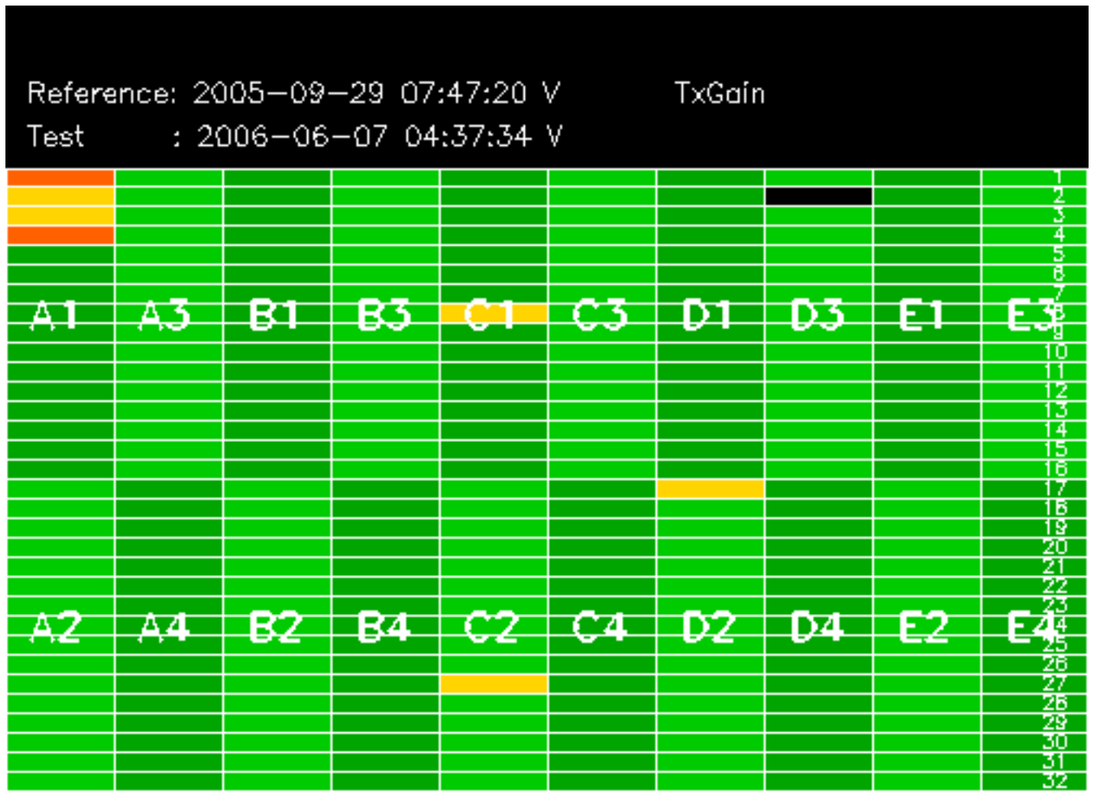

Reference: 2001-02-09 14:08:23 V
Test : 2006-06-07 04:37:34 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-06-07 04:37:34 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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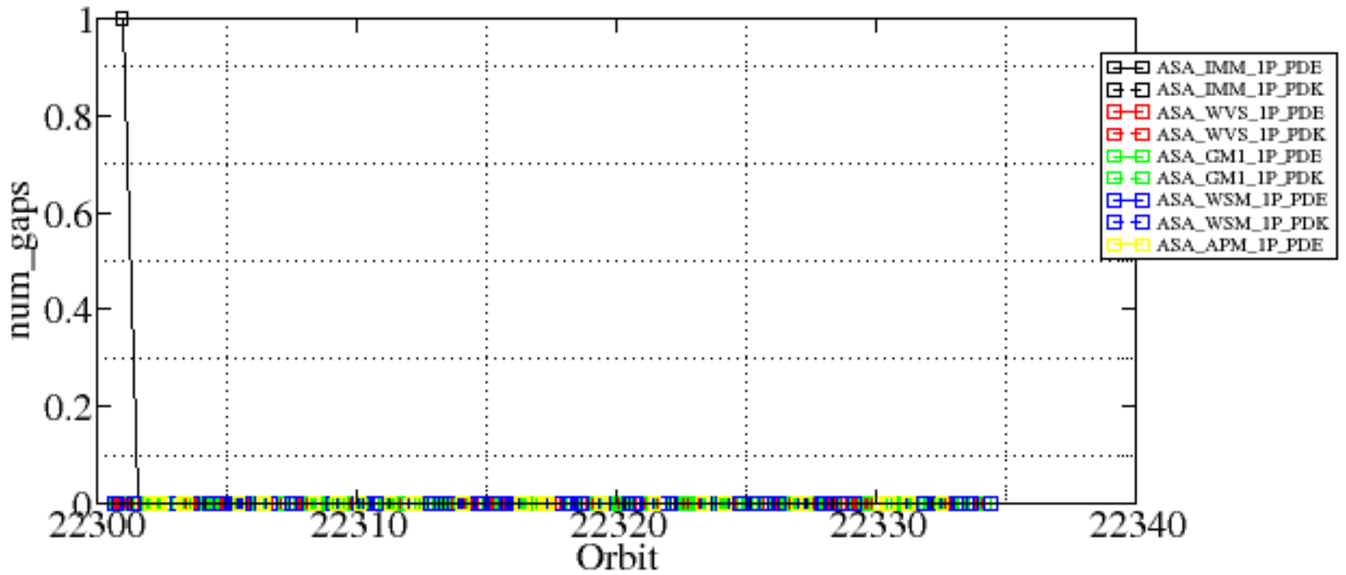
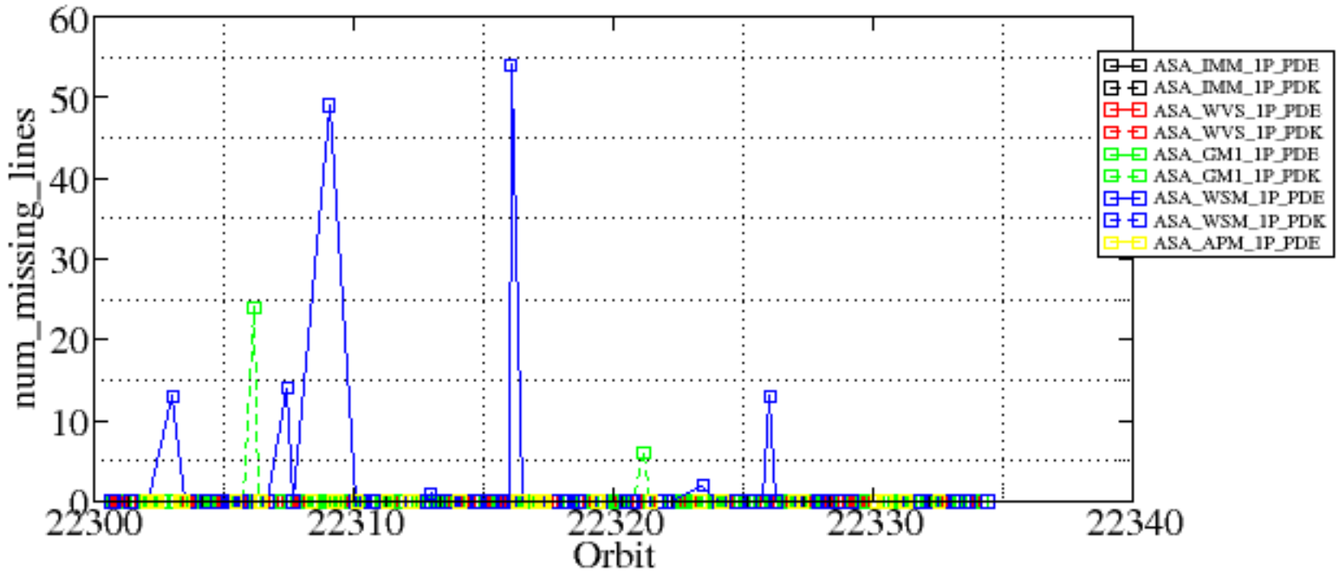
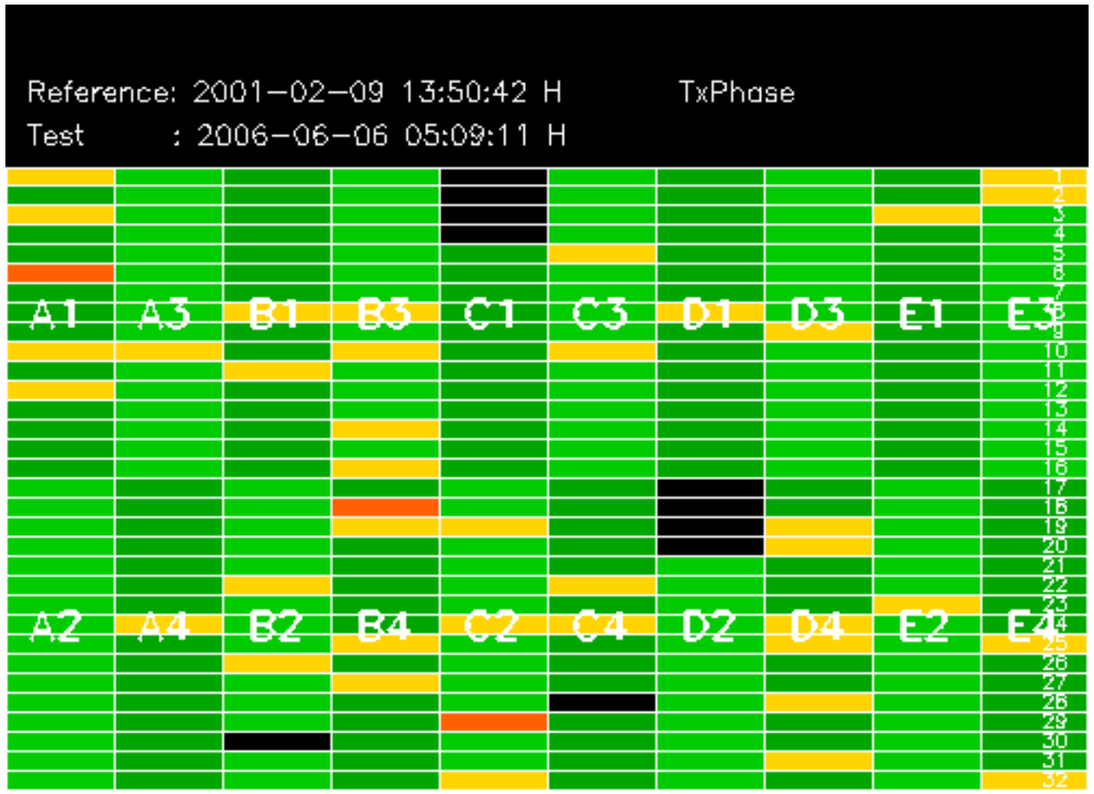
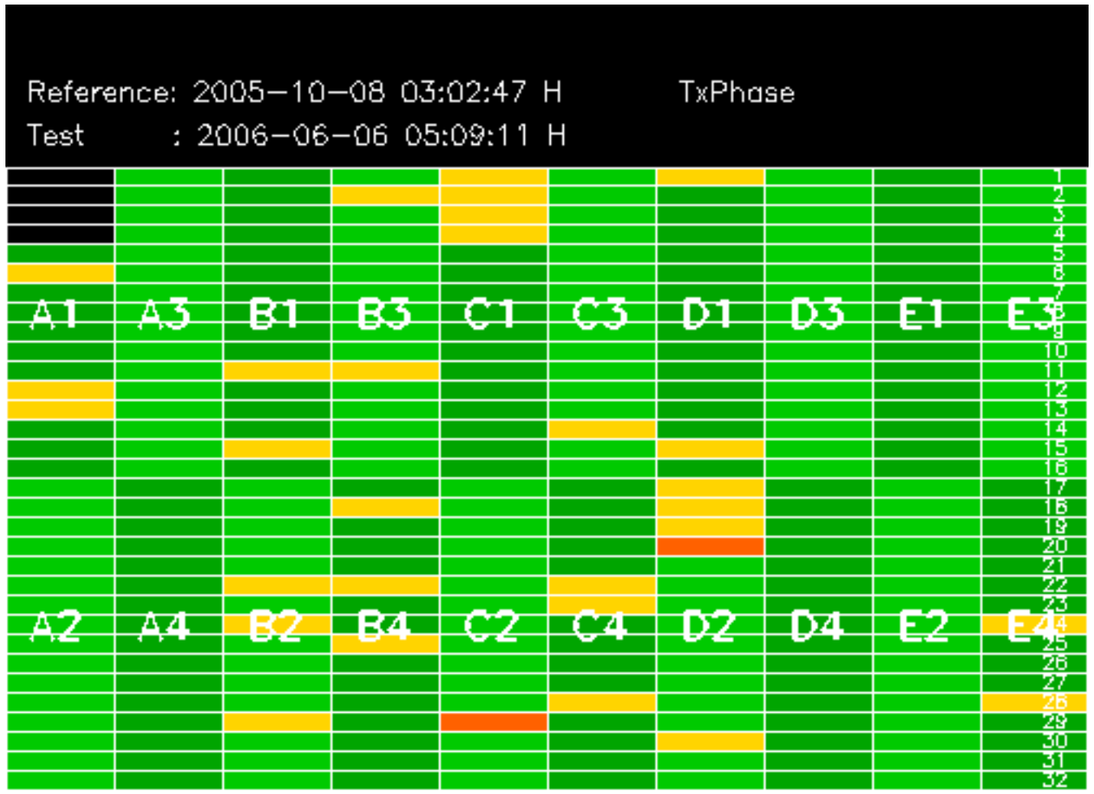
Summary of analysis for the last 3 days 2006060[678]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060606_003645_000001642048_00202_22300_6709.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20060606_092117_000007552048_00208_22306_4644.N1 </td> <td>0 </td> <td>24 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20060607_102902_000006702048_00223_22321_4703.N1 </td> <td>0 </td> <td>6 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060606_040457_000002692048_00205_22303_2880.N1 </td> <td>0 </td> <td>13 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060606_112905_000001292048_00209_22307_2917.N1 </td> <td>0 </td> <td>14 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060606_141126_000001522048_00211_22309_2967.N1 </td> <td>0 </td> <td>49 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060606_204401_000000862048_00214_22312_3005.N1 </td> <td>0 </td> <td>1 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060607_015506_000000852048_00218_22316_3054.N1 </td> <td>0 </td> <td>54 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060607_141813_000000972048_00225_22323_3144.N1 </td> <td>0 </td> <td>2 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060607_183929_000002072048_00228_22326_3160.N1 </td> <td>0 </td> <td>13 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
22300
22310
22320
22330
22340
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


num_missing_lines
60
50
40
30
20
10
0
22300
22310
22320
22330
22340
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-06 05:09:11 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2006-06-06 05:09:11 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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Reference: 2001-02-09 14:08:23 V
Test : 2006-06-07 04:37:34 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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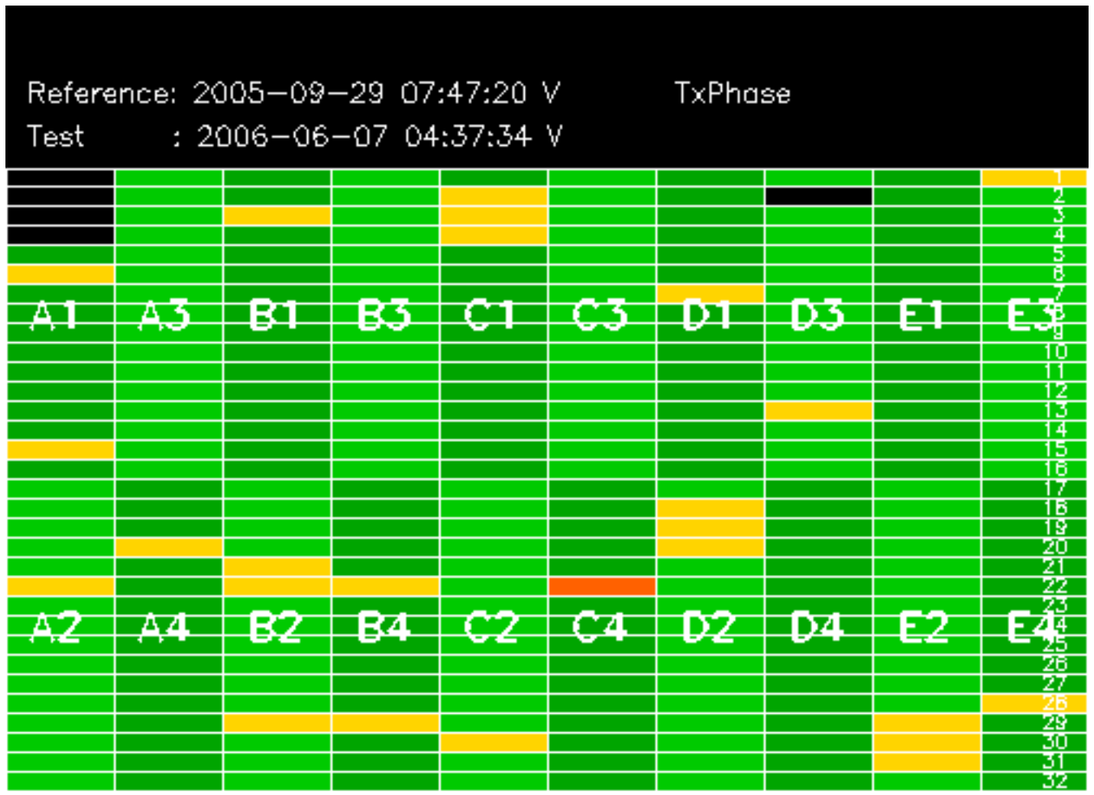
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-07 04:37:34 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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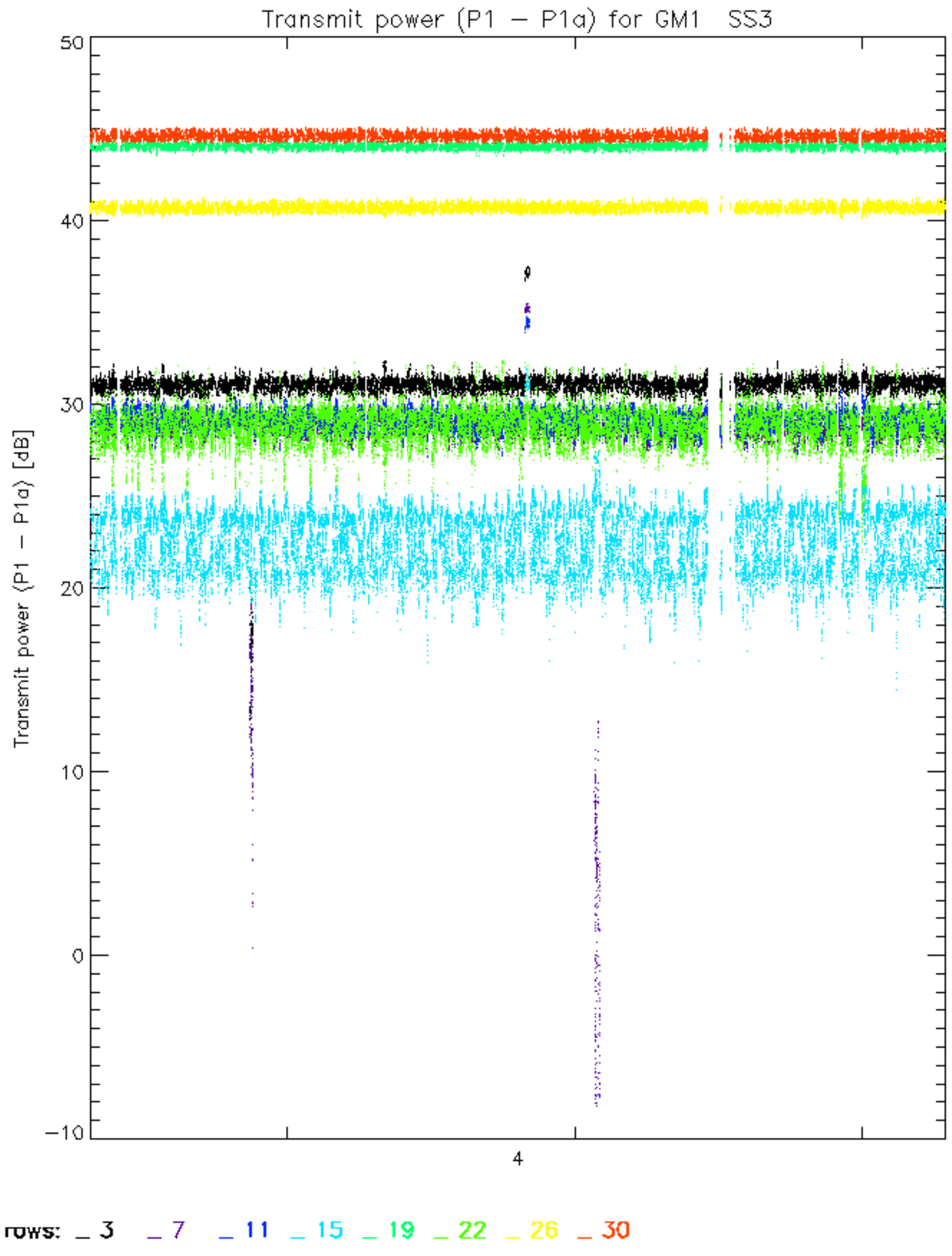
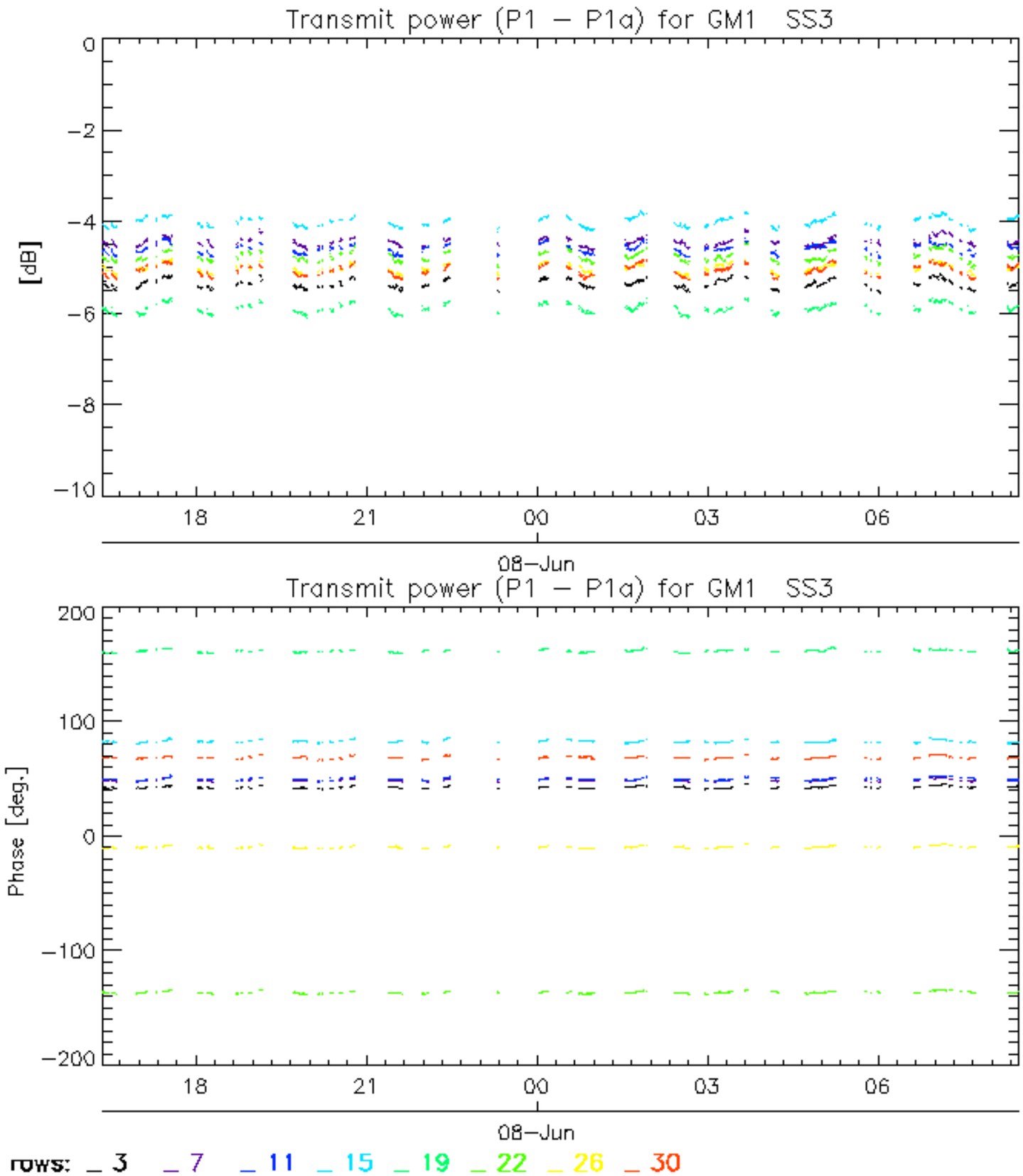
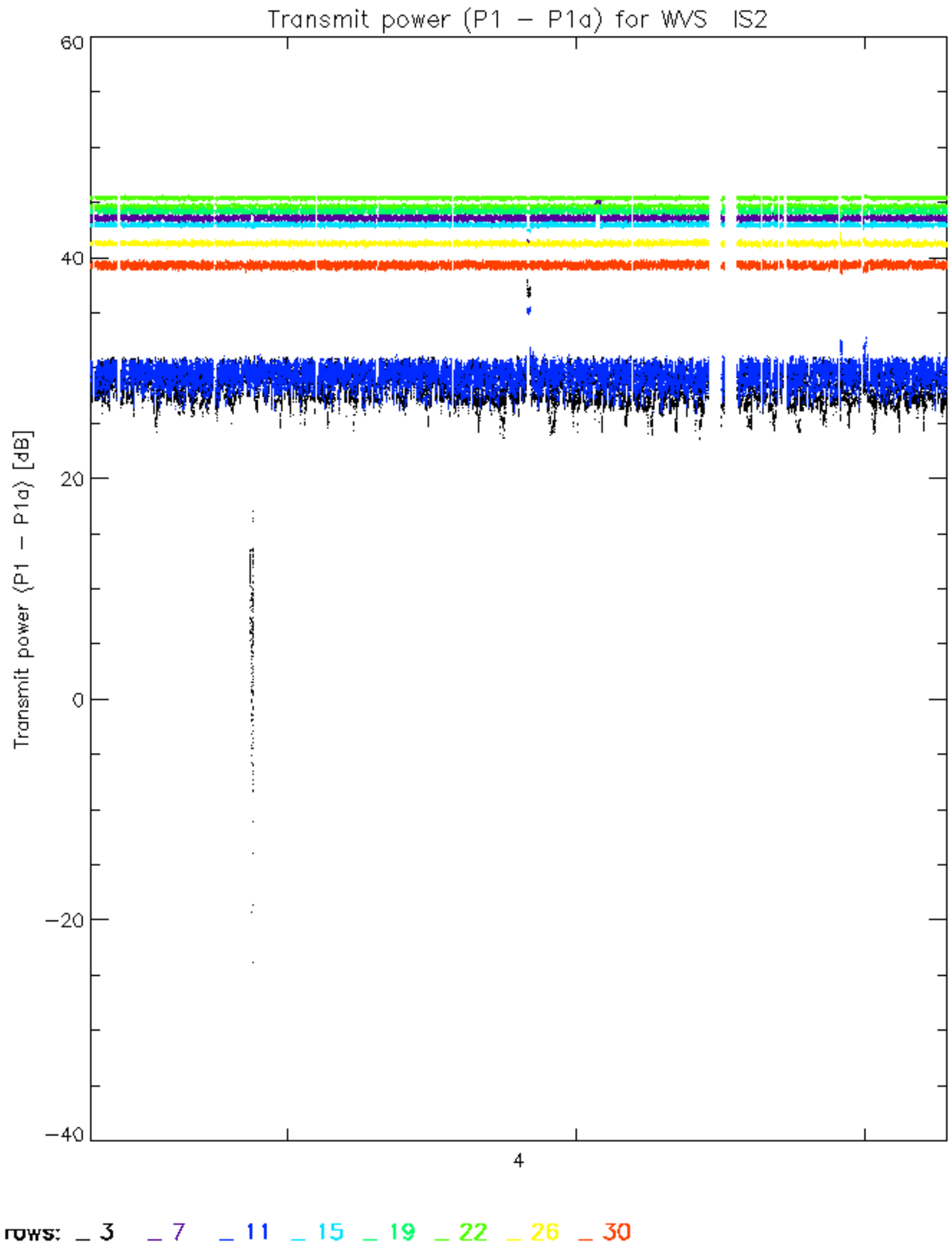
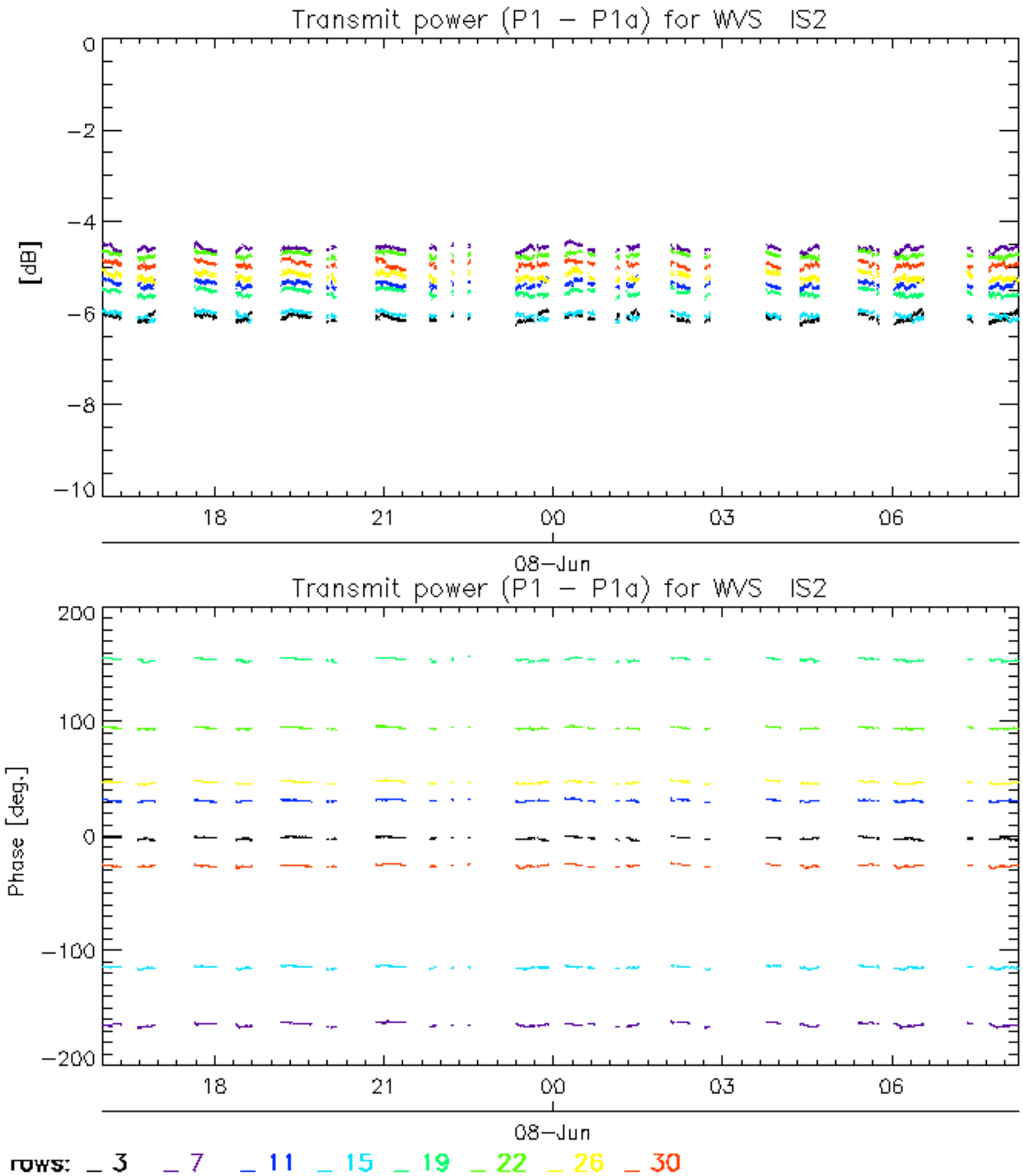

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
4
rows: 3 7 11 15 19 22 26 30


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


Transmit power (P1 − P1a) for WVS IS2
Transmit power ⟨P1 − P1a⟩ [dB]
60
40
20
0
−20
−40
4
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
08–Jun
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
08–Jun
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.