PRELIMINARY REPORT OF 060618

last update on Sun Jun 18 16:44:01 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 2006-06-17 00:00:00 to 2006-06-18 16:44:01

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	44	82	22	0	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	44	82	22	0	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	44	82	22	0	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	44	82	22	0	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	31	46	72	15	25
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	31	46	72	15	25
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	31	46	72	15	25
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	31	46	72	15	25

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	20060616 063527
H	20060617 060350

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
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☒	☒
☒	☒
☒	☒

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

4.1.1 - Evolution for WVS

Evolution of cal pulses for WVS
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4.1.2 - Evolution for GM1

Evolution of cal pulses for GM1
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☒

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	-3.936722	0.018512	0.046936
7	P1	-3.132248	0.015868	-0.048617
11	P1	-4.107486	0.019348	0.011762
15	P1	-6.145723	0.020216	-0.037500
19	P1	-3.345102	0.008537	-0.065004
22	P1	-4.515522	0.011542	-0.009092
26	P1	-3.972949	0.017018	0.011183
30	P1	-5.749384	0.008917	-0.013486
3	P1	-16.513823	0.250007	0.084985
7	P1	-17.217453	0.150505	-0.138630
11	P1	-16.948336	0.308295	-0.051552
15	P1	-13.207389	0.216520	0.067701
19	P1	-14.321479	0.050843	-0.137175
22	P1	-16.169748	0.369874	0.026021
26	P1	-15.228230	0.230440	0.087579
30	P1	-17.113064	0.405359	-0.198980

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.151892	0.079393	0.120827
7	P2	-22.035723	0.095293	0.103894
11	P2	-15.881125	0.109094	0.122557
15	P2	-7.159798	0.092155	0.003409
19	P2	-9.172055	0.083661	-0.016826
22	P2	-18.155897	0.081619	-0.073159
26	P2	-16.397205	0.085367	-0.062288
30	P2	-19.561020	0.085293	0.023077

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.184658	0.004045	-0.006097
7	P3	-8.184658	0.004045	-0.006097
11	P3	-8.184658	0.004045	-0.006097
15	P3	-8.184658	0.004045	-0.006097
19	P3	-8.184658	0.004045	-0.006097
22	P3	-8.184658	0.004045	-0.006097
26	P3	-8.184658	0.004045	-0.006097
30	P3	-8.184658	0.004045	-0.006097

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	-3.800670	0.051603	0.007130
7	P1	-2.592121	0.030785	0.042128
11	P1	-2.861231	0.023204	0.017104
15	P1	-3.507931	0.050739	-0.027619
19	P1	-3.407282	0.014324	-0.028829
22	P1	-5.080930	0.019564	-0.002042
26	P1	-5.852384	0.015759	-0.036149
30	P1	-5.192172	0.026798	-0.015404
3	P1	-11.624854	0.053036	0.022276
7	P1	-9.966015	0.049018	-0.062769
11	P1	-10.214473	0.087130	-0.081362
15	P1	-10.648099	0.154765	-0.113632
19	P1	-15.535001	0.075756	-0.052490
22	P1	-20.932432	1.182632	-0.135495
26	P1	-16.476219	0.331193	0.033096
30	P1	-17.924540	0.370860	0.187990

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.840115	0.071529	0.150811
7	P2	-22.493313	0.129145	0.050563
11	P2	-11.156269	0.048374	0.075917
15	P2	-4.916872	0.048856	-0.034254
19	P2	-6.881167	0.053269	-0.014533
22	P2	-8.206644	0.043047	-0.025839
26	P2	-24.132812	0.068507	-0.095691
30	P2	-22.063007	0.056174	0.008208

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.018926	0.004894	-0.011117
7	P3	-8.018946	0.004872	-0.011032
11	P3	-8.018900	0.004868	-0.011095
15	P3	-8.018893	0.004879	-0.011121
19	P3	-8.018897	0.004872	-0.011069
22	P3	-8.019076	0.004868	-0.011242
26	P3	-8.019028	0.004872	-0.011003
30	P3	-8.019003	0.004870	-0.011103

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

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4.3.2 - Evolution for GM1

☒

5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000543891
	stdev	1.82336e-07
MEAN Q	mean	0.000514893
	stdev	2.25170e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.135550
	stdev	0.00117752
STDEV Q	mean	0.135897
	stdev	0.00119483

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006061[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_1PNPDE20060617_182649_000000352048_00371_22469_7779.N1	0	16
ASA_WSM_1PNPDE20060616_011001_000000672048_00346_22444_4337.N1	0	58
ASA_WSM_1PNPDE20060616_021252_000002692048_00347_22445_4352.N1	0	58
ASA_APM_1PNPDE20060616_143704_000000872048_00354_22452_3436.N1	0	21
ASA_APM_1PNPDE20060617_004226_000000562048_00360_22458_3444.N1	0	19

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
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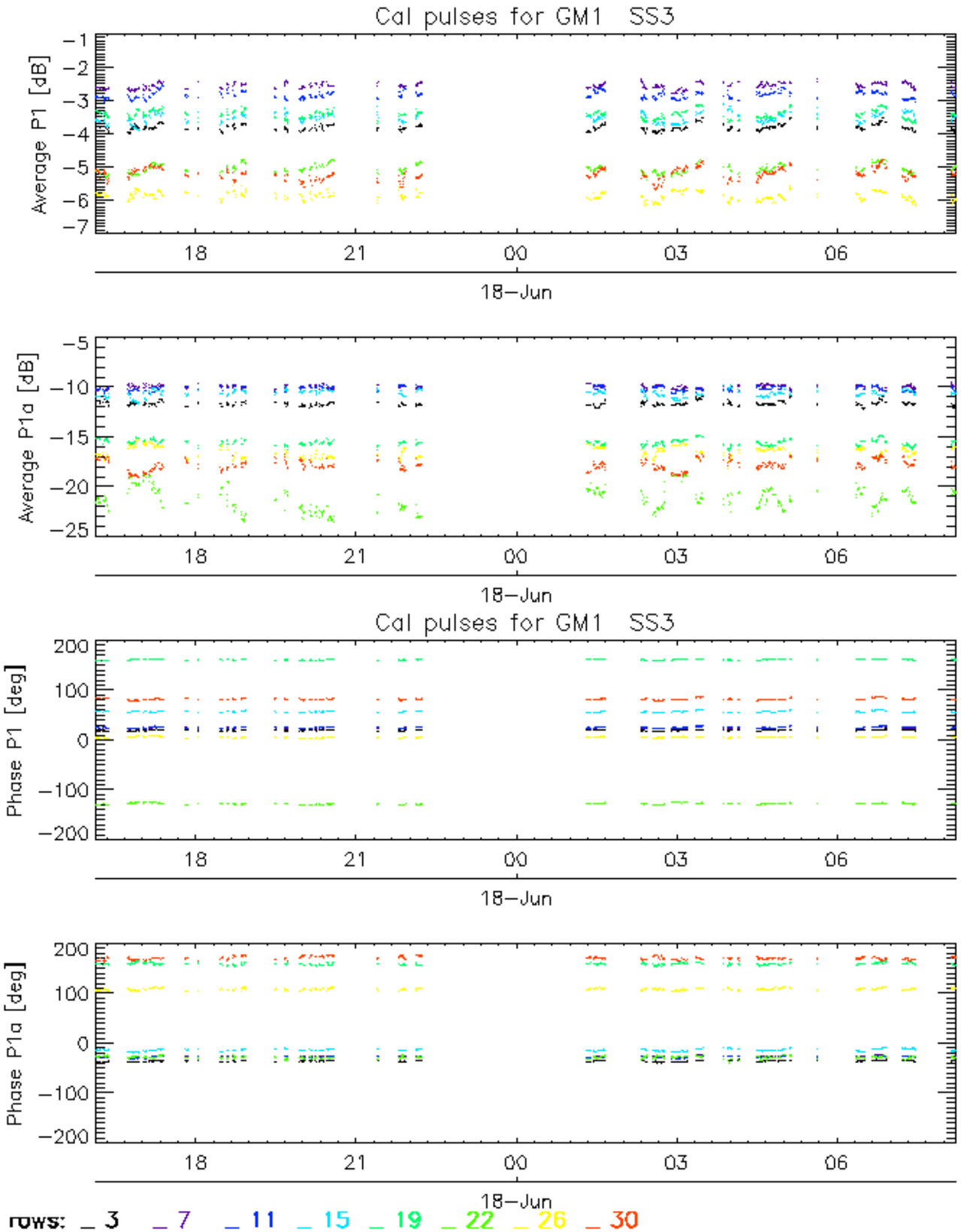
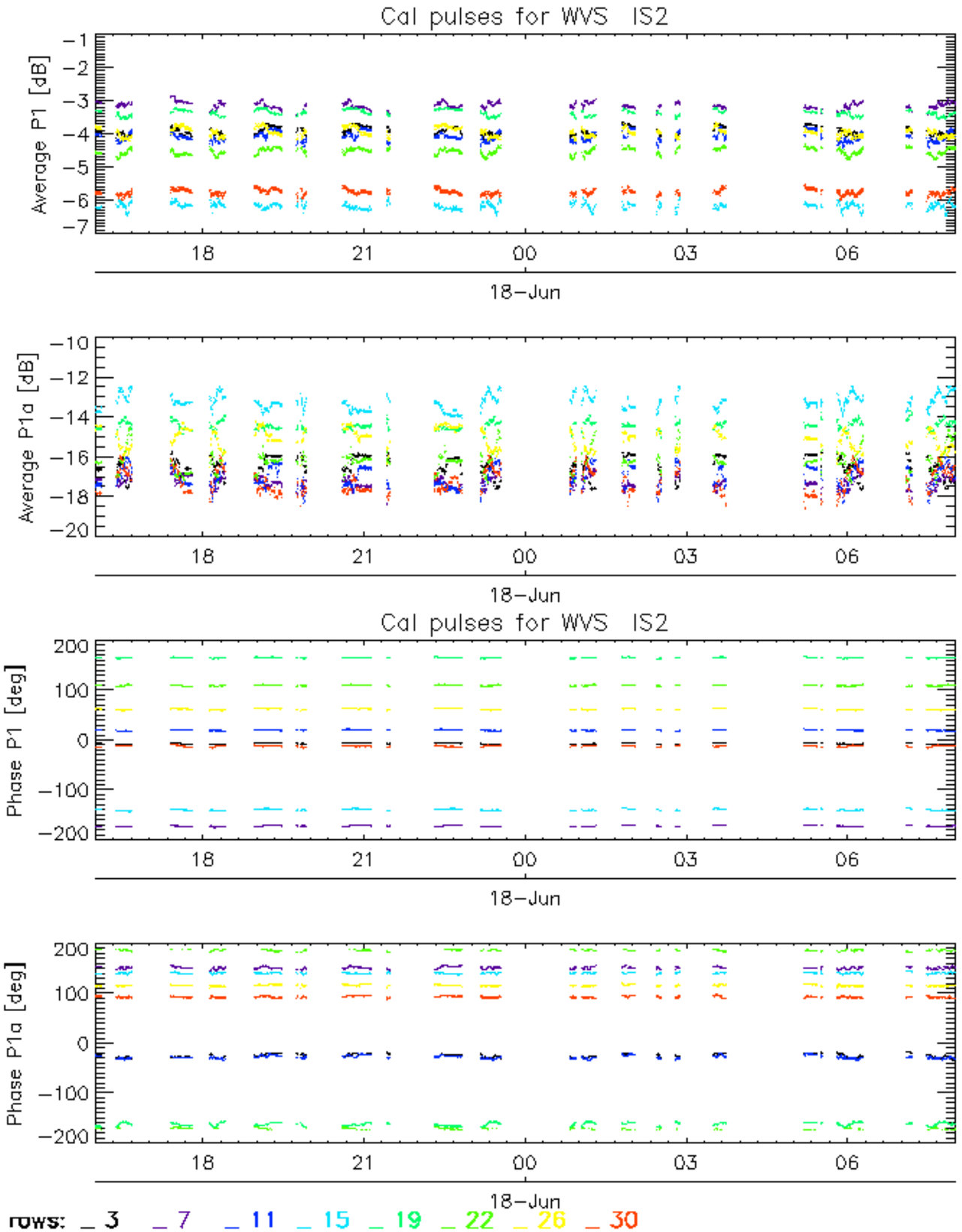
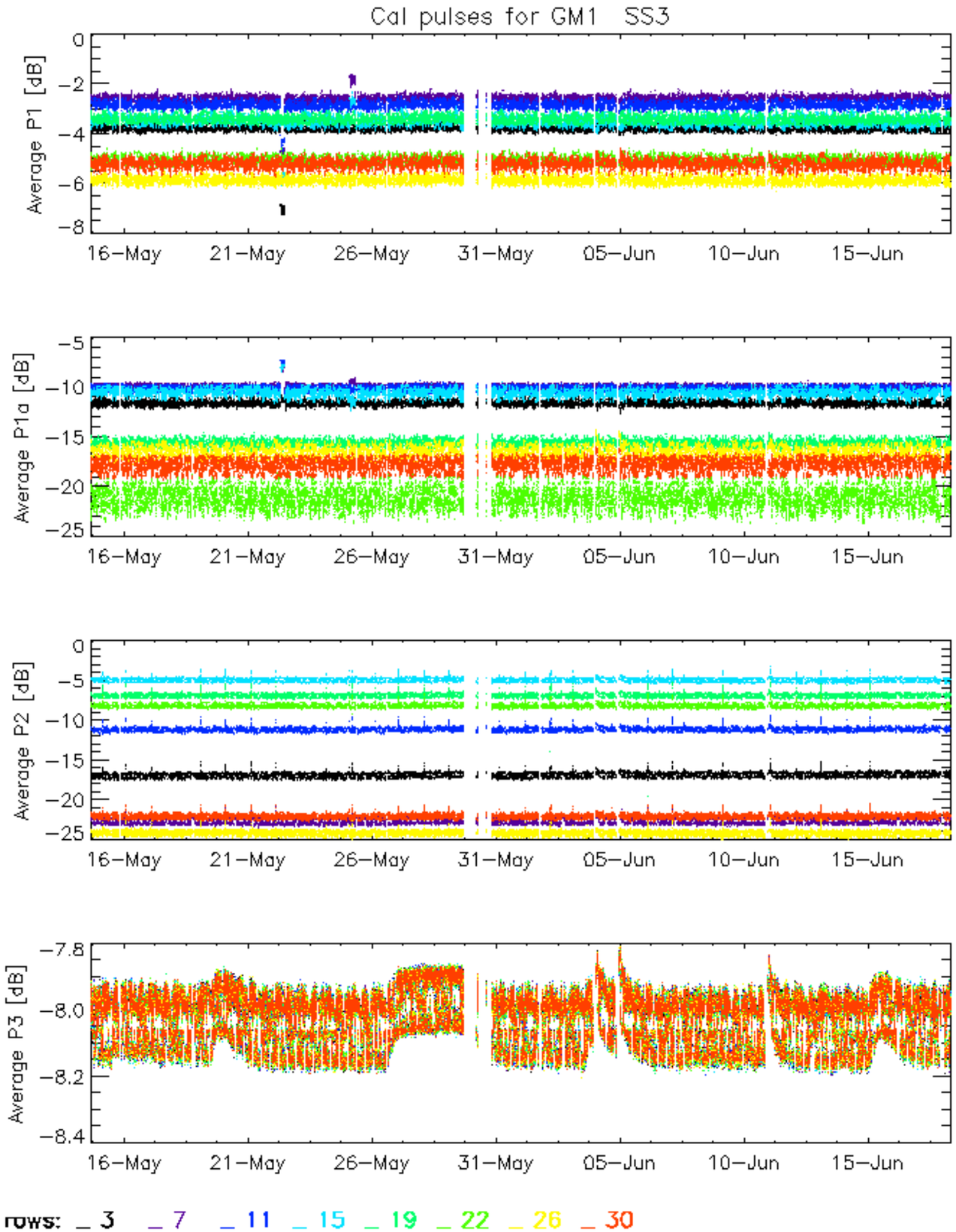
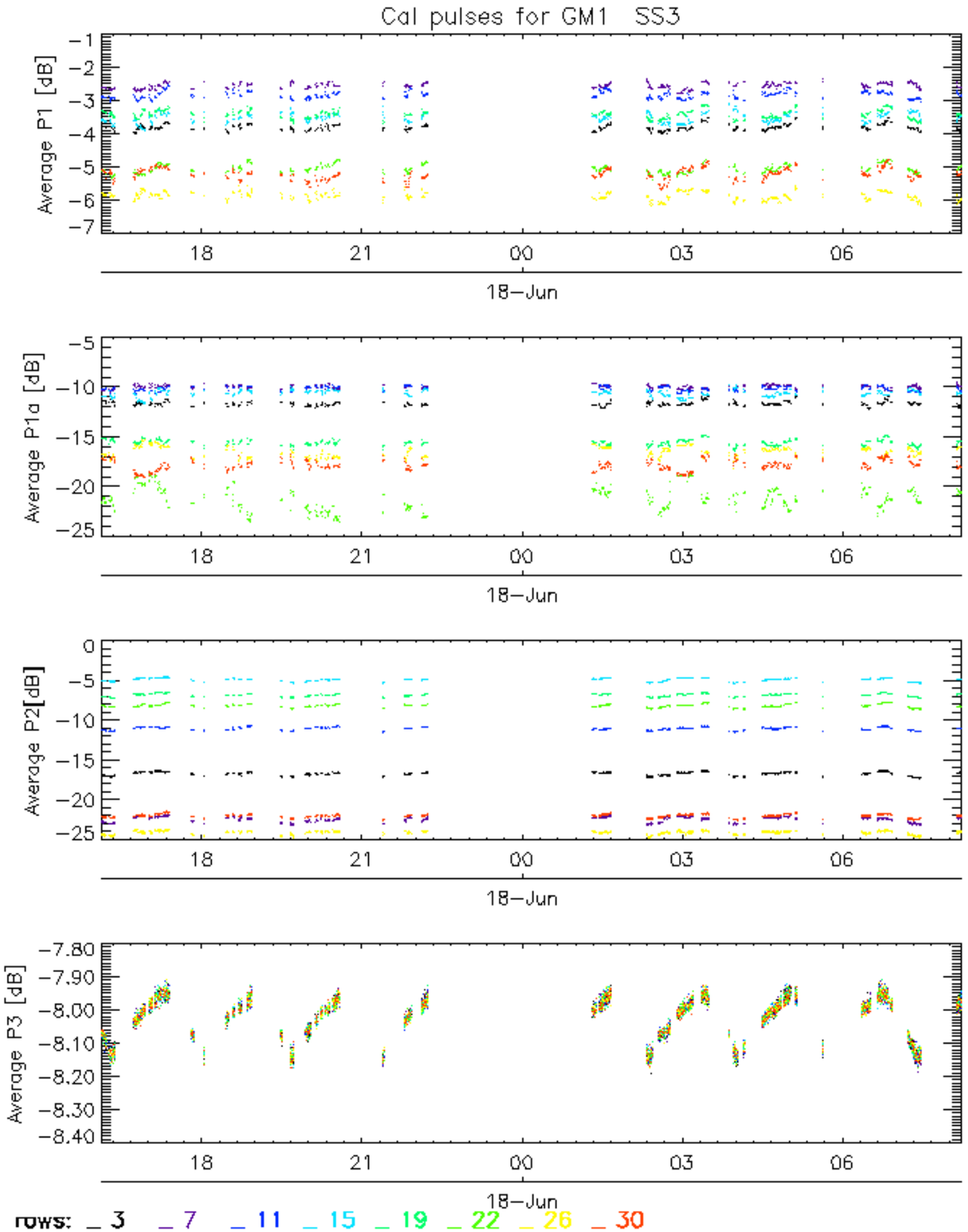
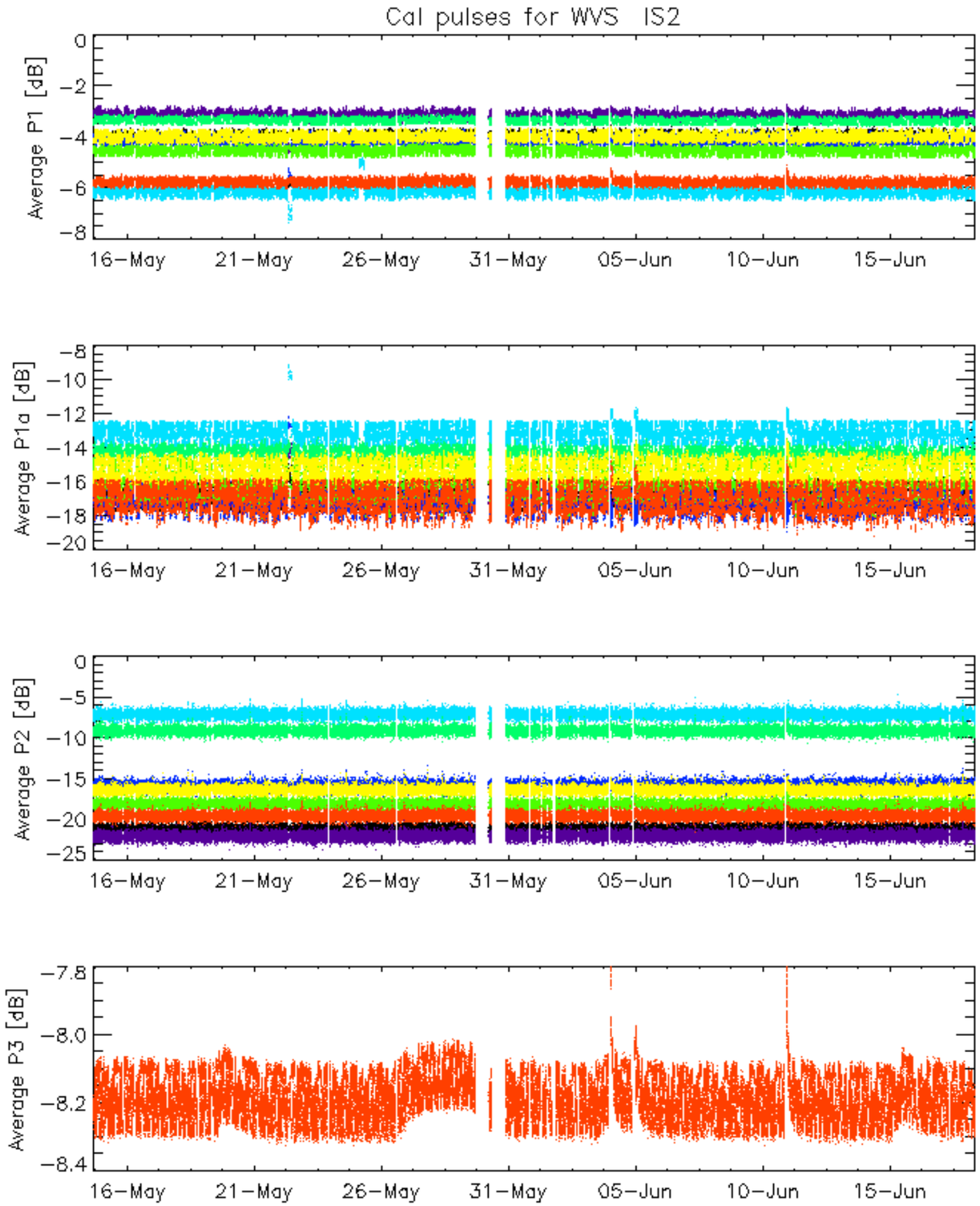
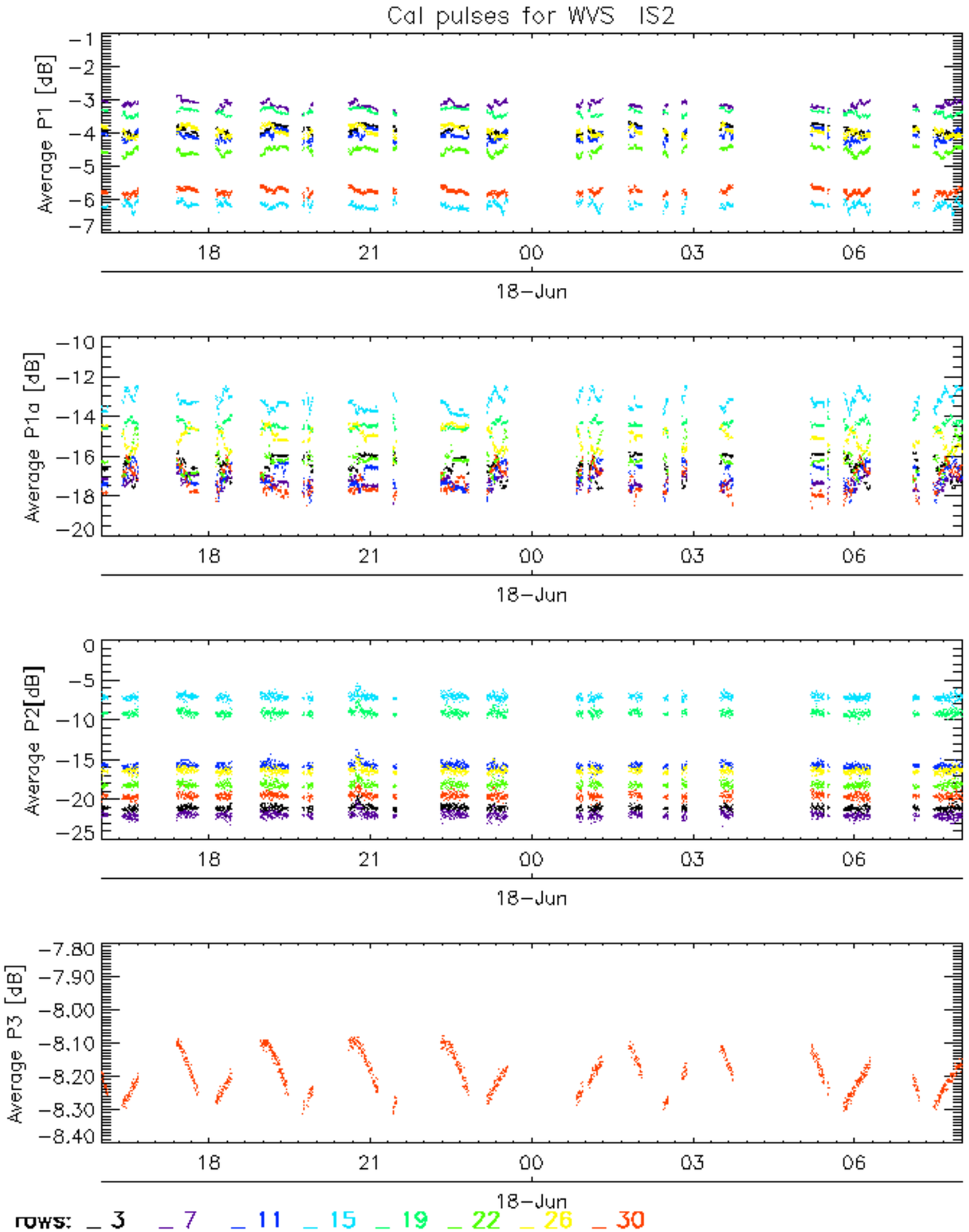

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
18−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
18−Jun
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
18−Jun
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
18−Jun
rows: _ 3 _ 7 _ 11 _ 15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


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

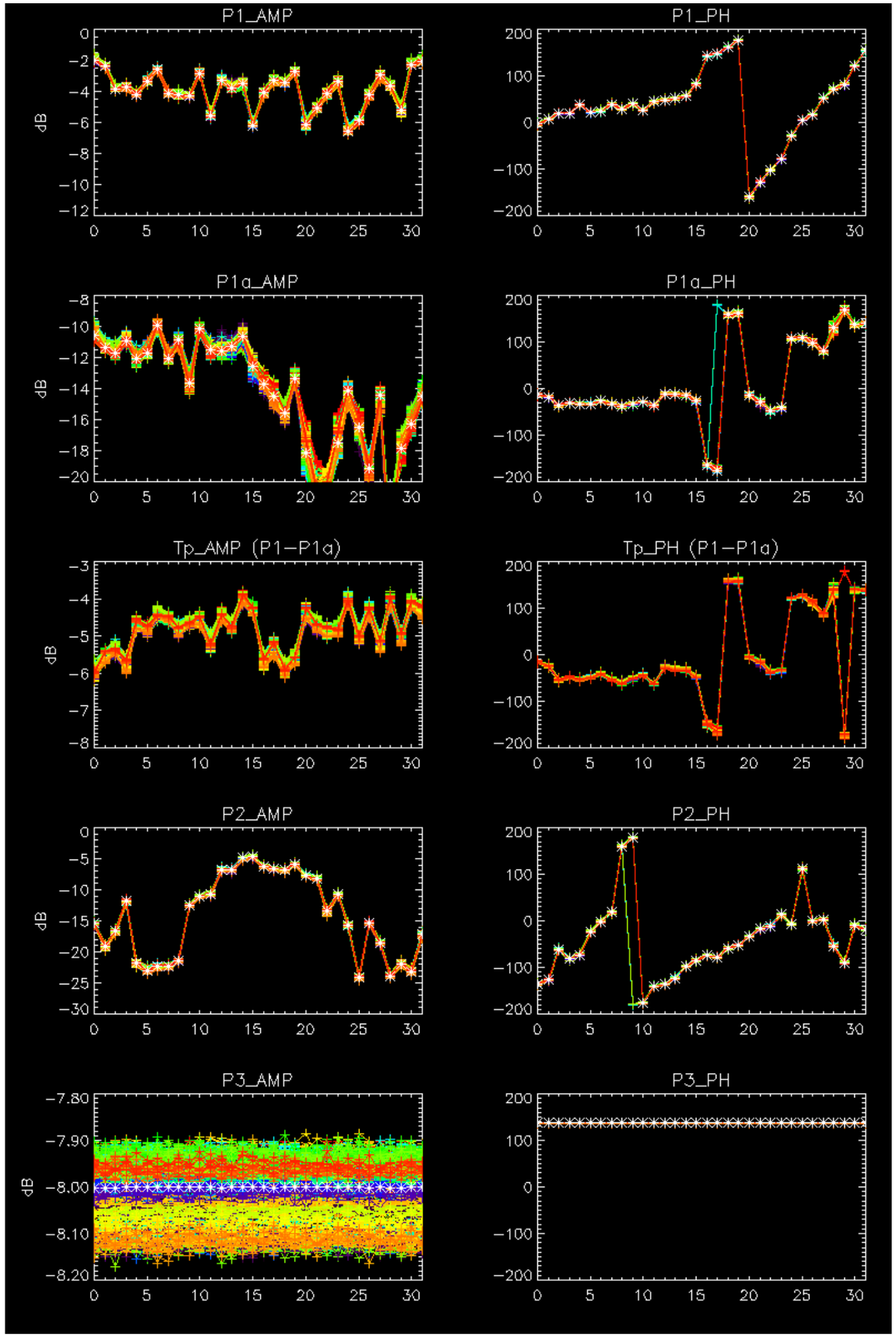

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
16−May
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

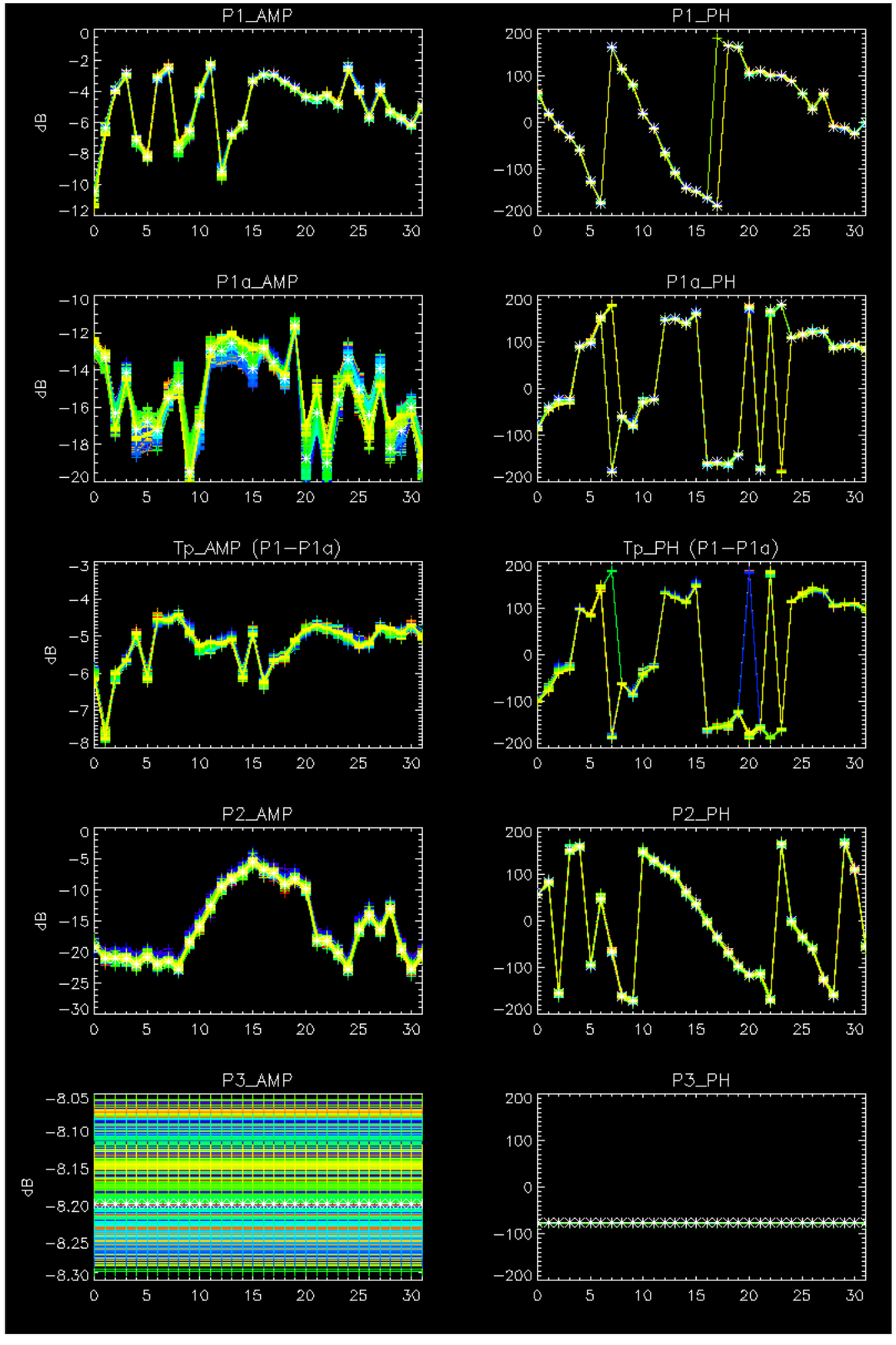

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
18−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
18−Jun
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
18−Jun
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
18−Jun
rows: _ 3 _ 7 _ 11 _ 15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


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

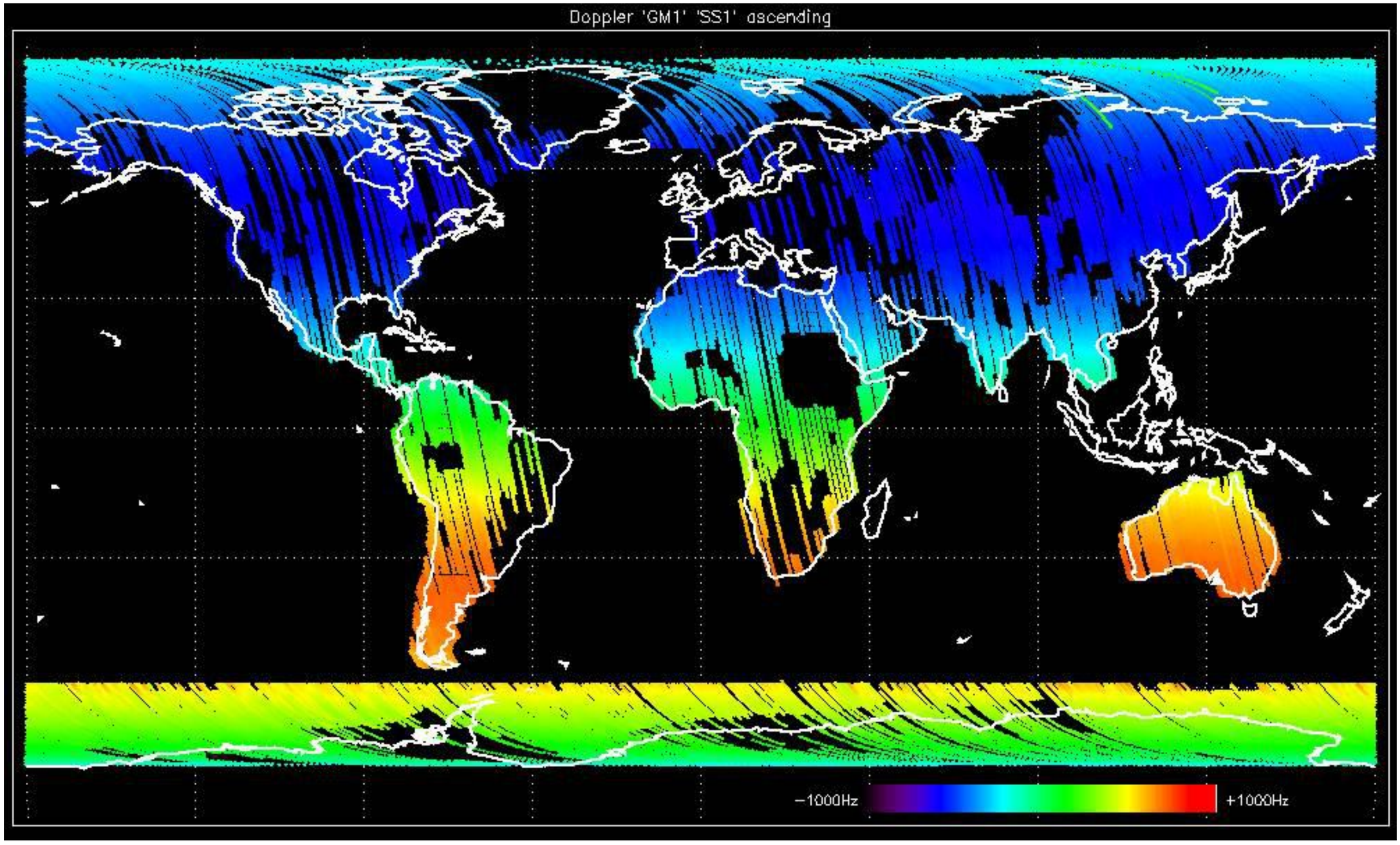
No anomalies observed.

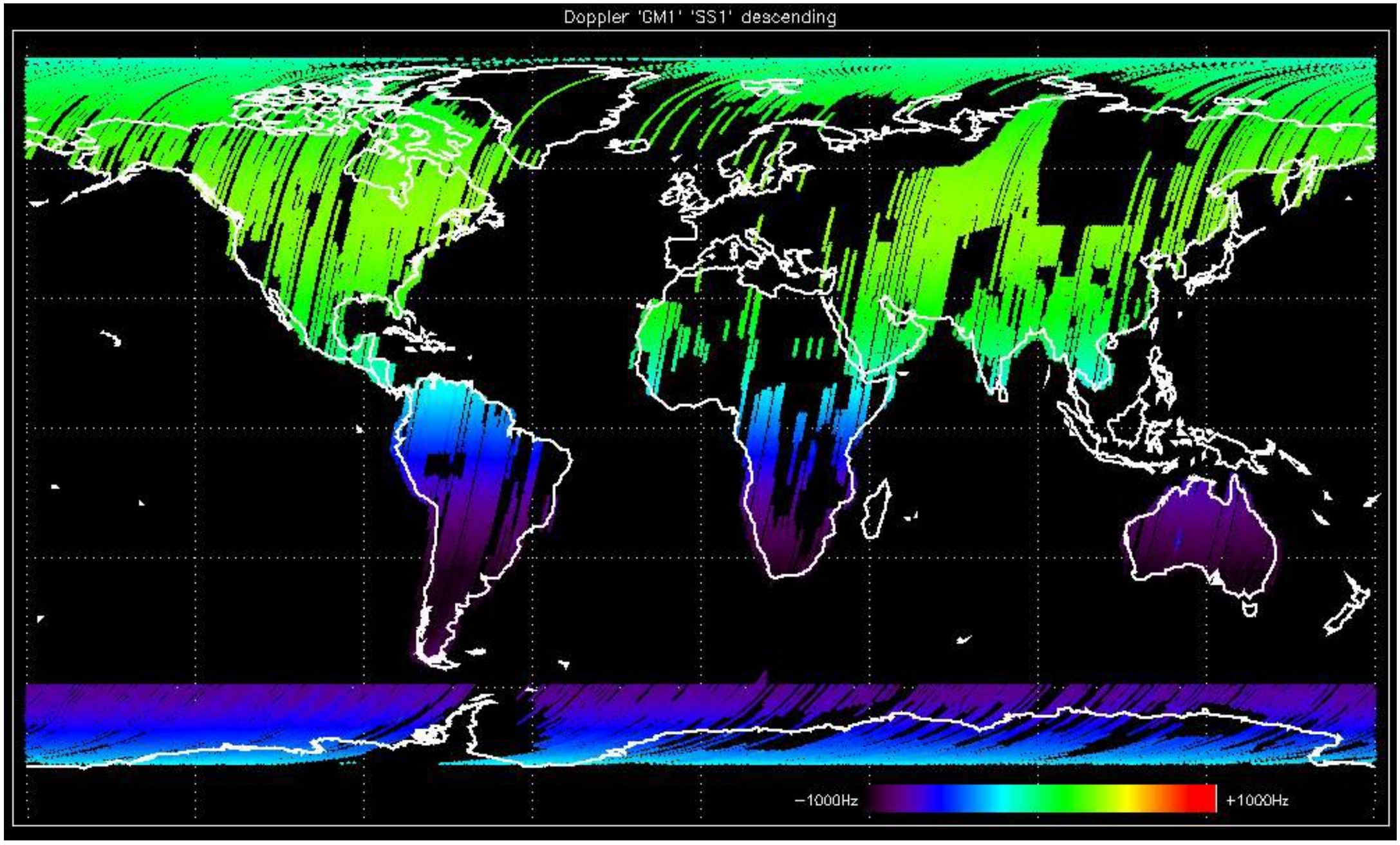

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

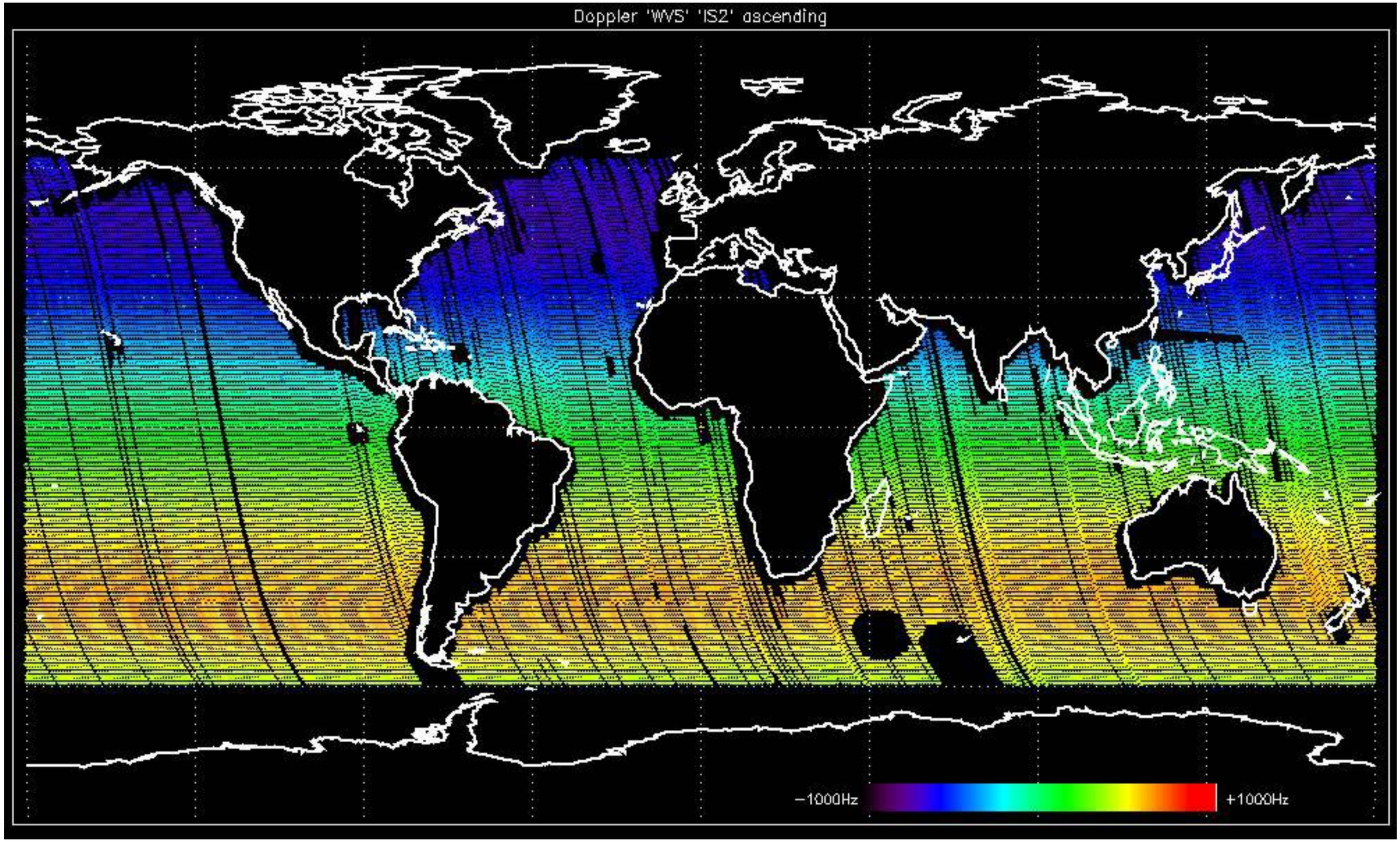

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

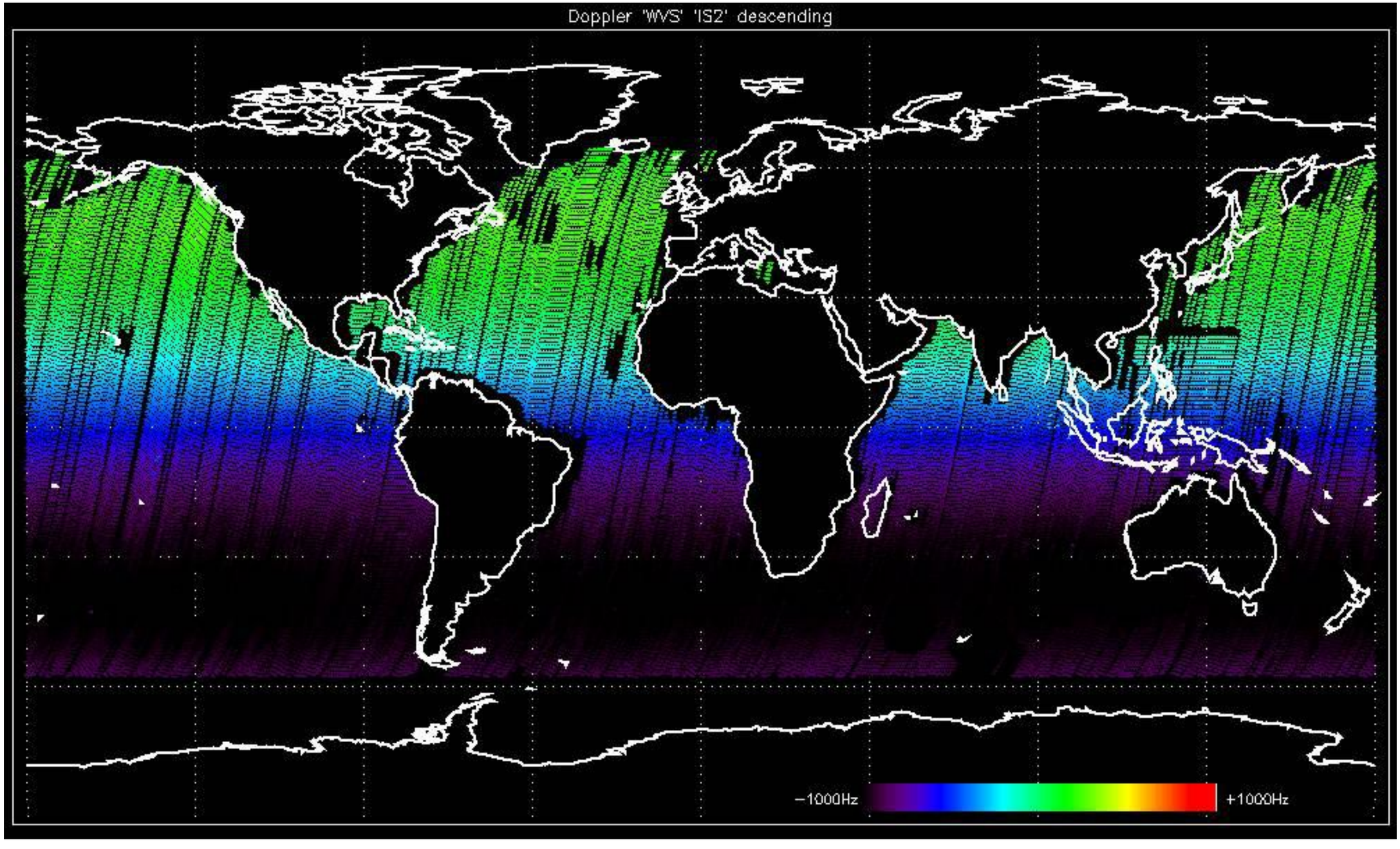
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

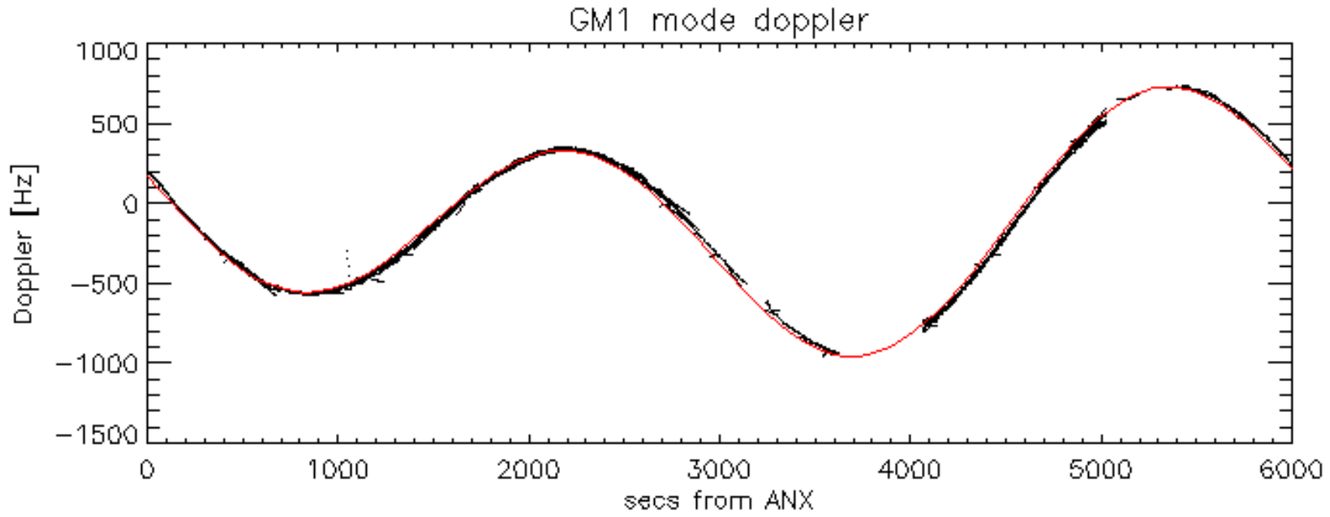
Preliminary report.The data is not yet controled

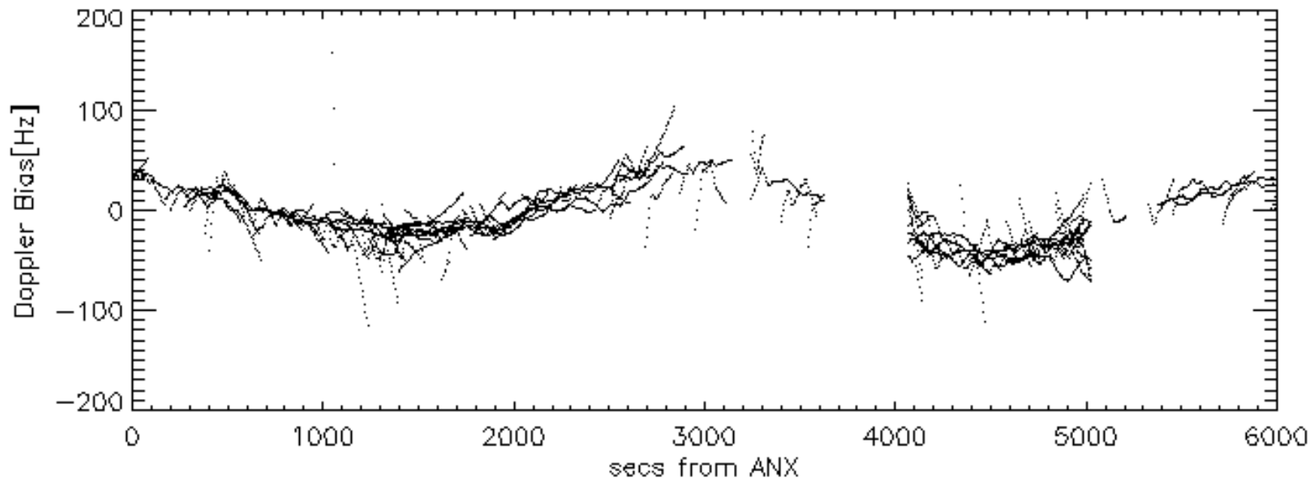

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

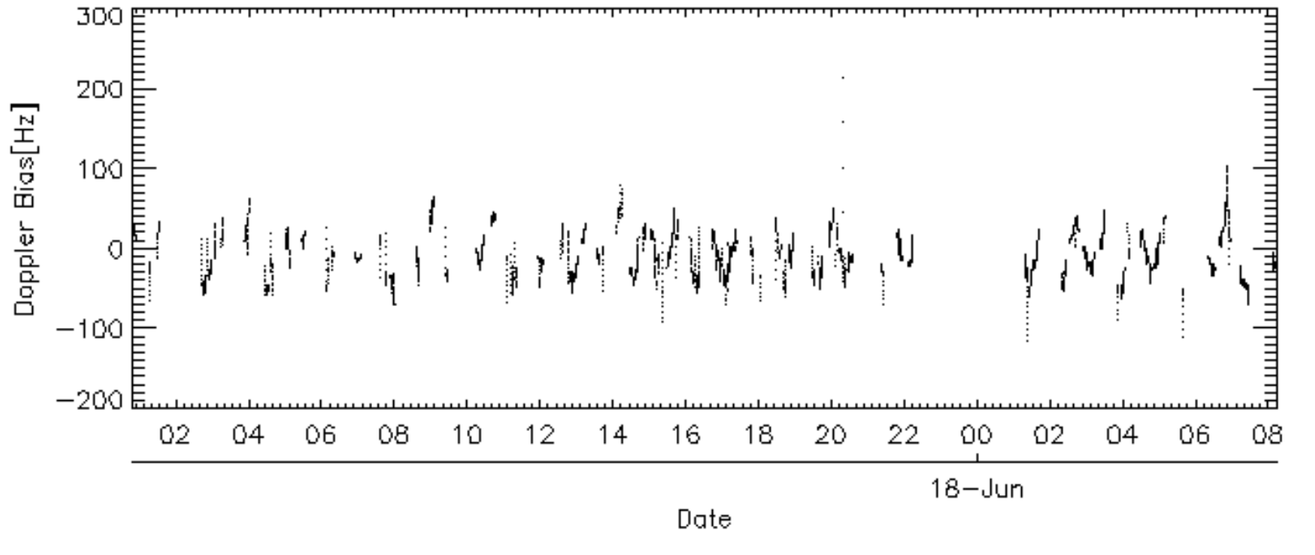

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

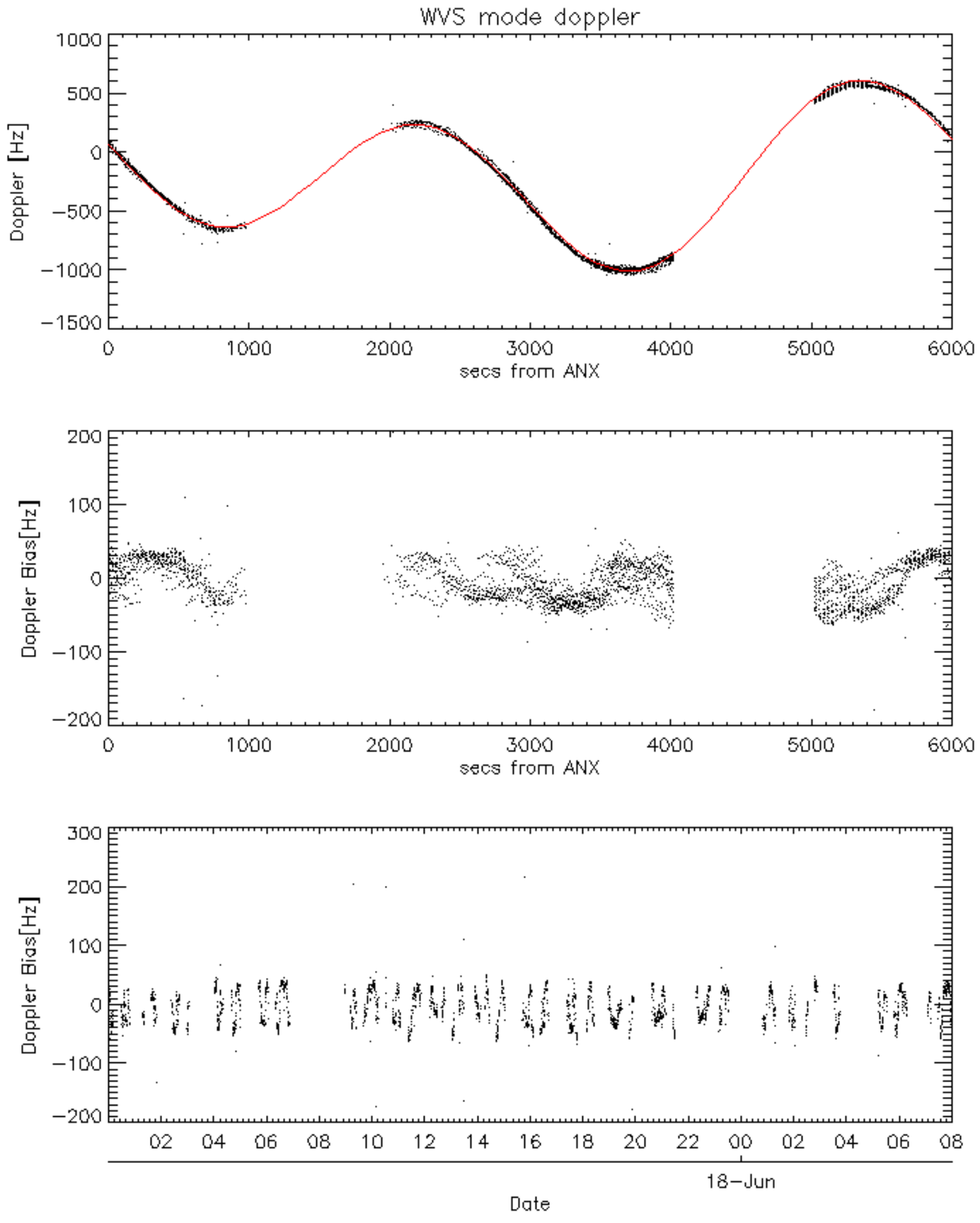

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

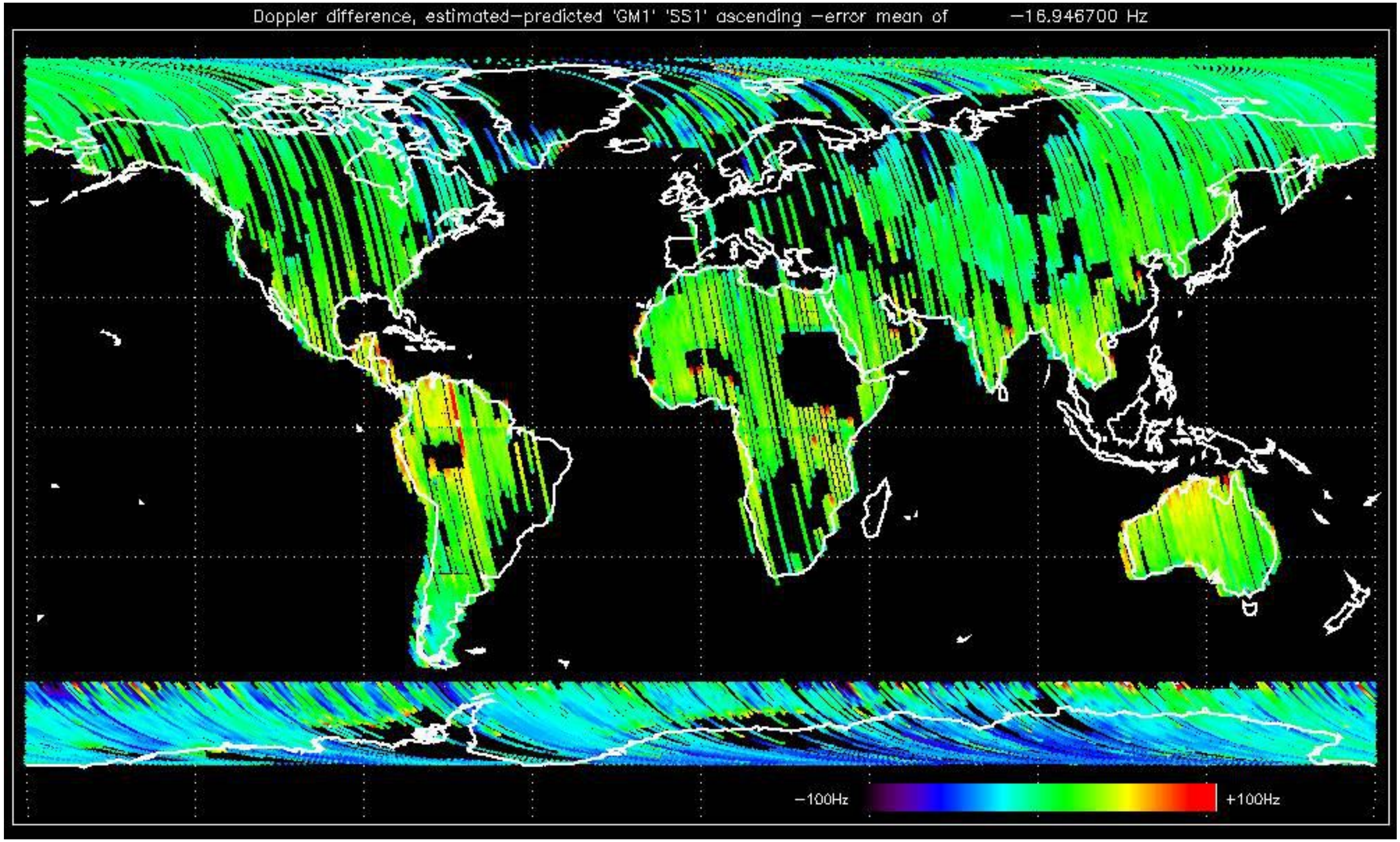

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

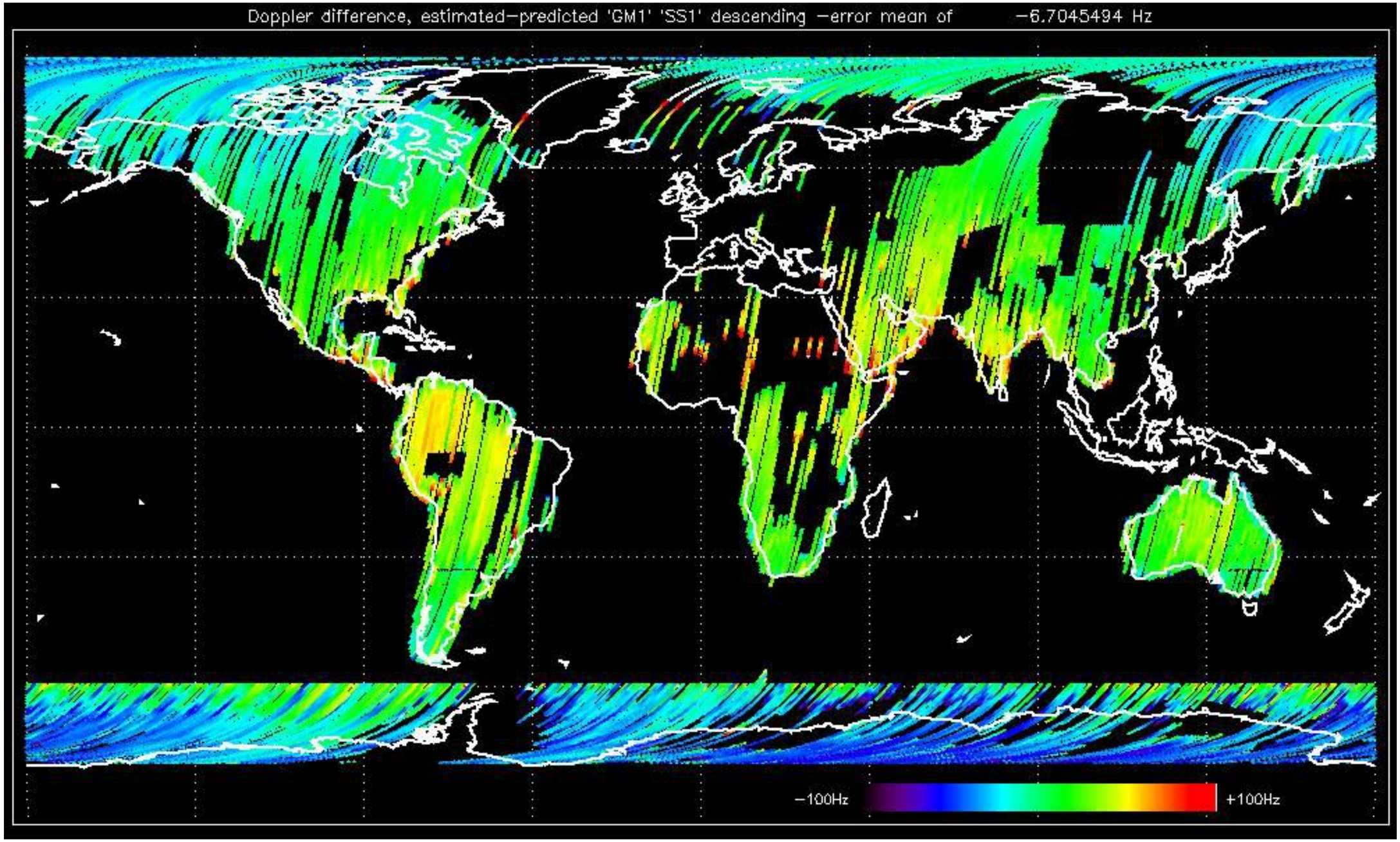

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

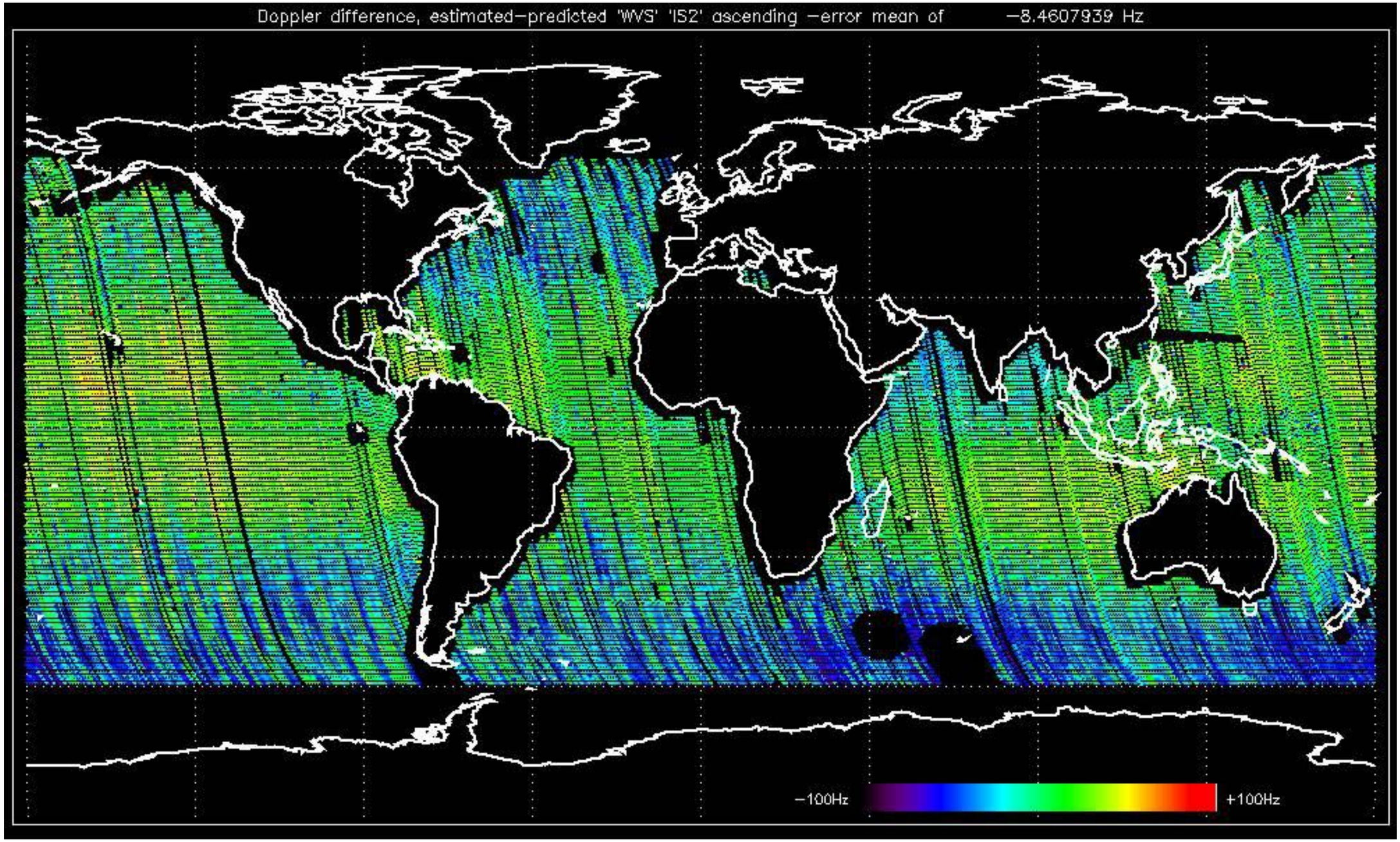

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

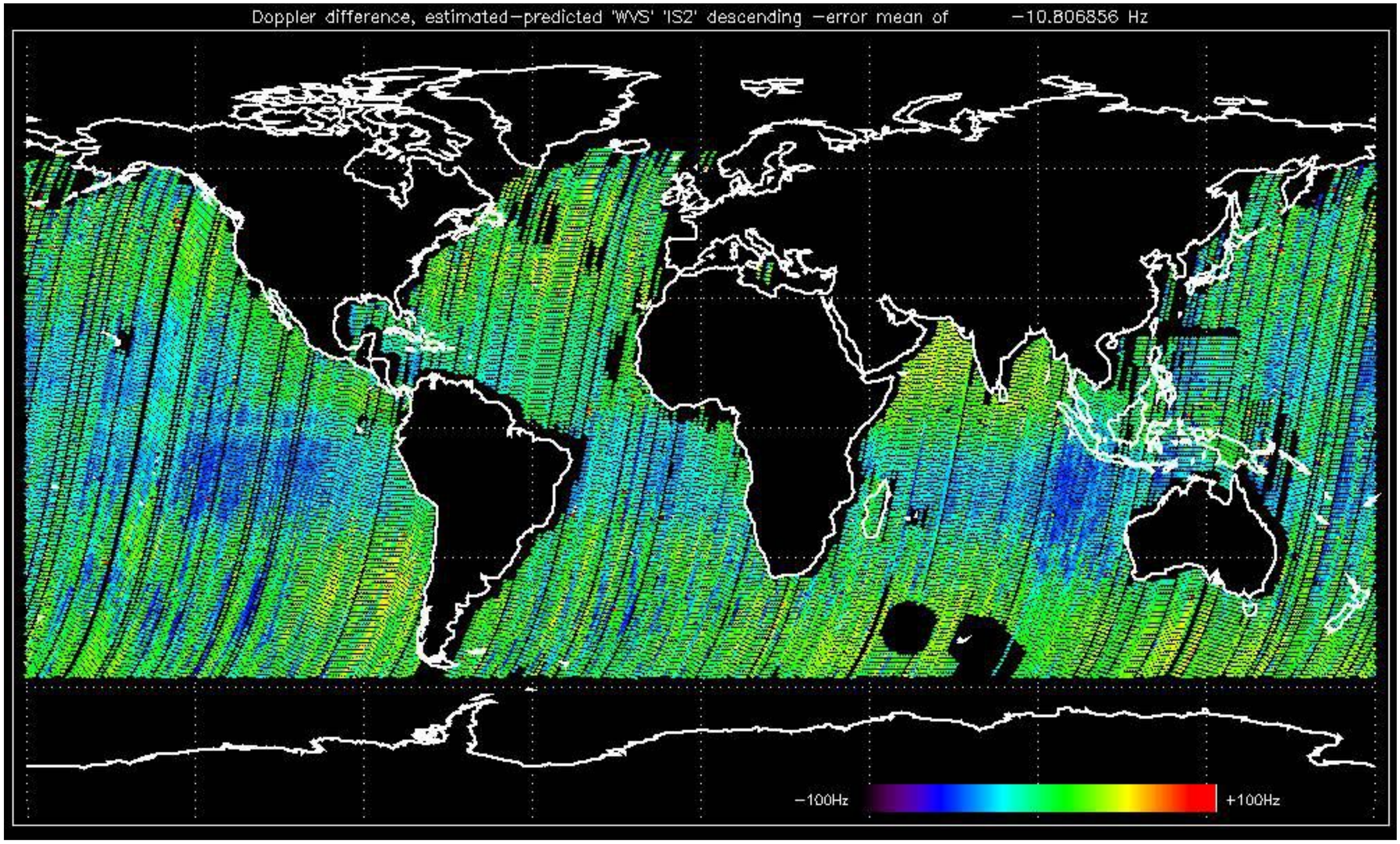

Doppler Bias[Hz]
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
18−Jun
Date


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −16.946700 Hz
−100Hz
+100Hz

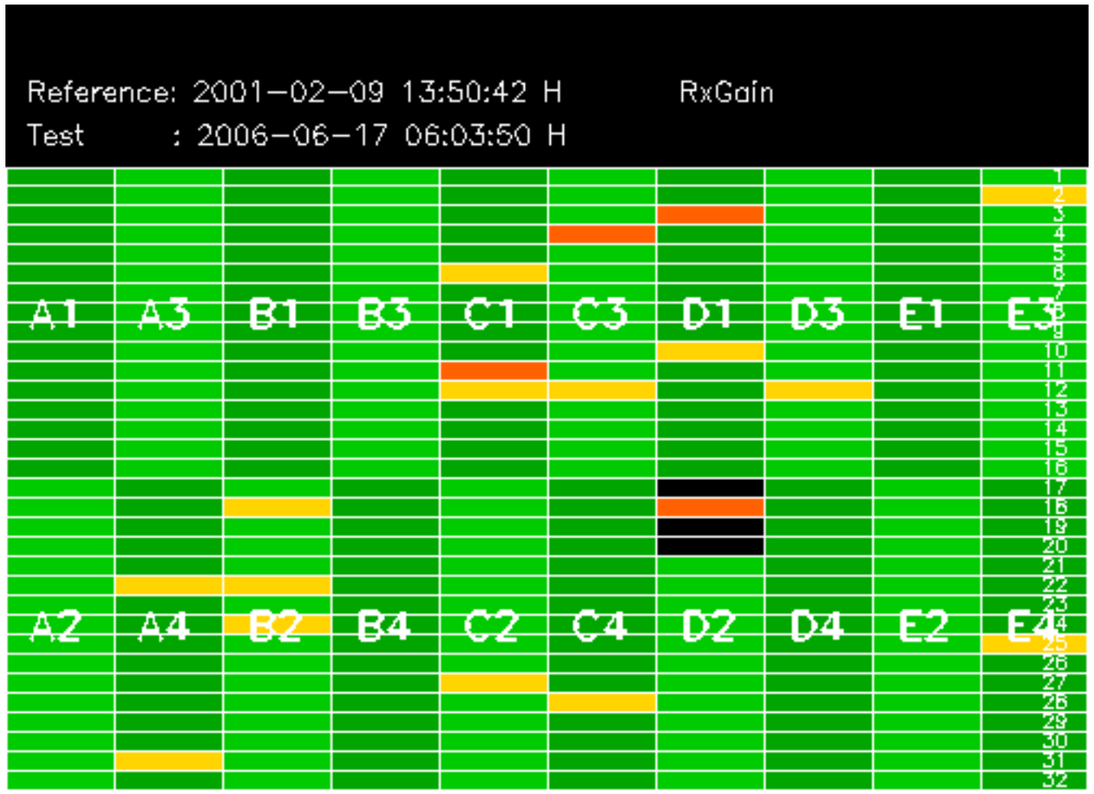

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −6.7045494 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −8.4607939 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.806856 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-17 06:03:50 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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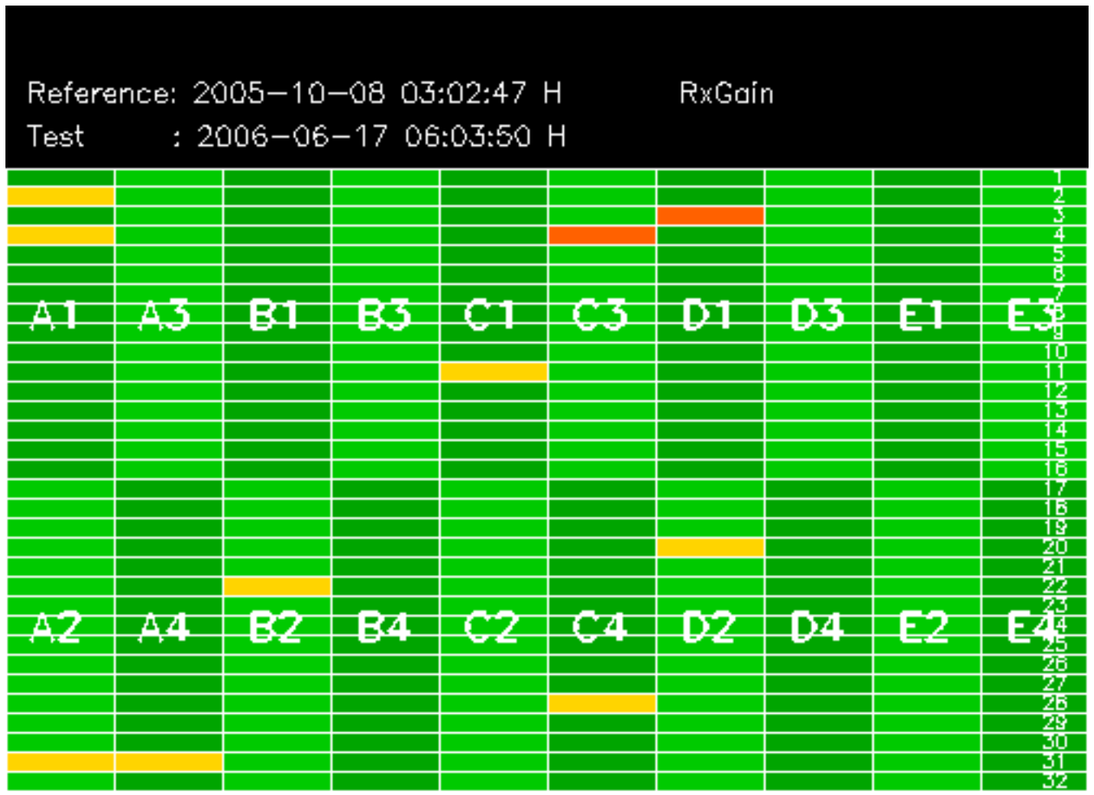
Reference: 2005-10-08 03:02:47 H
Test : 2006-06-17 06:03:50 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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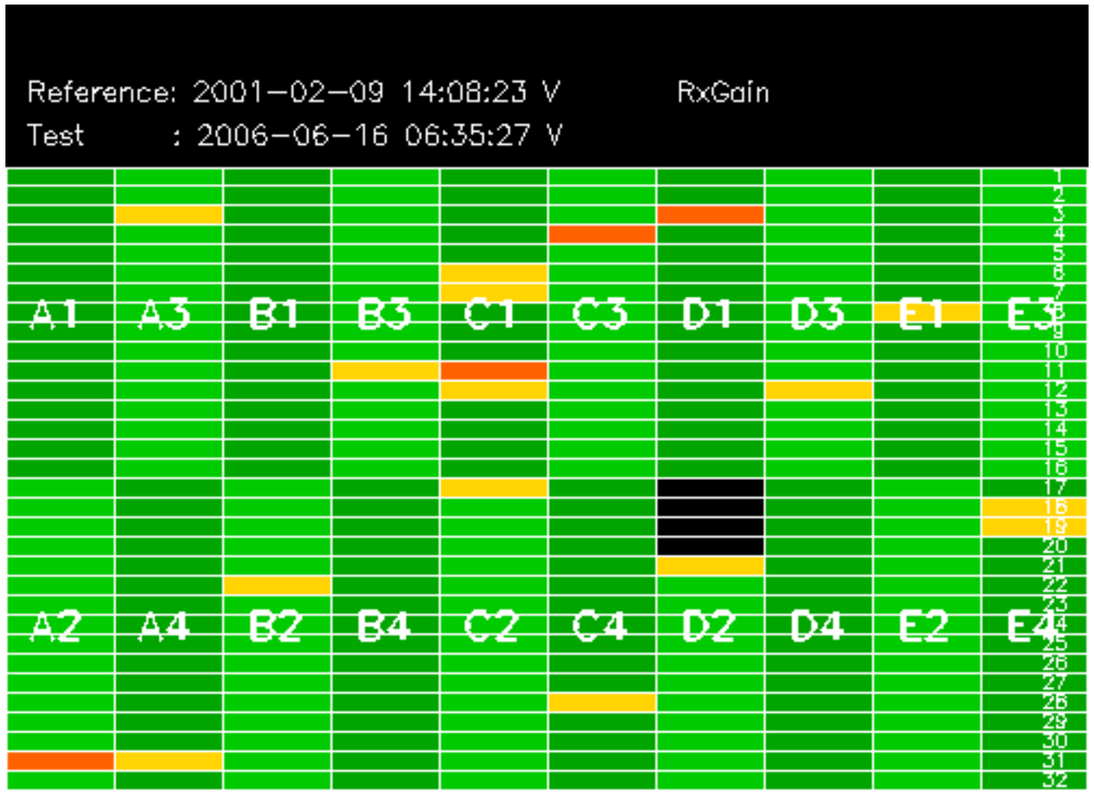
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-16 06:35:27 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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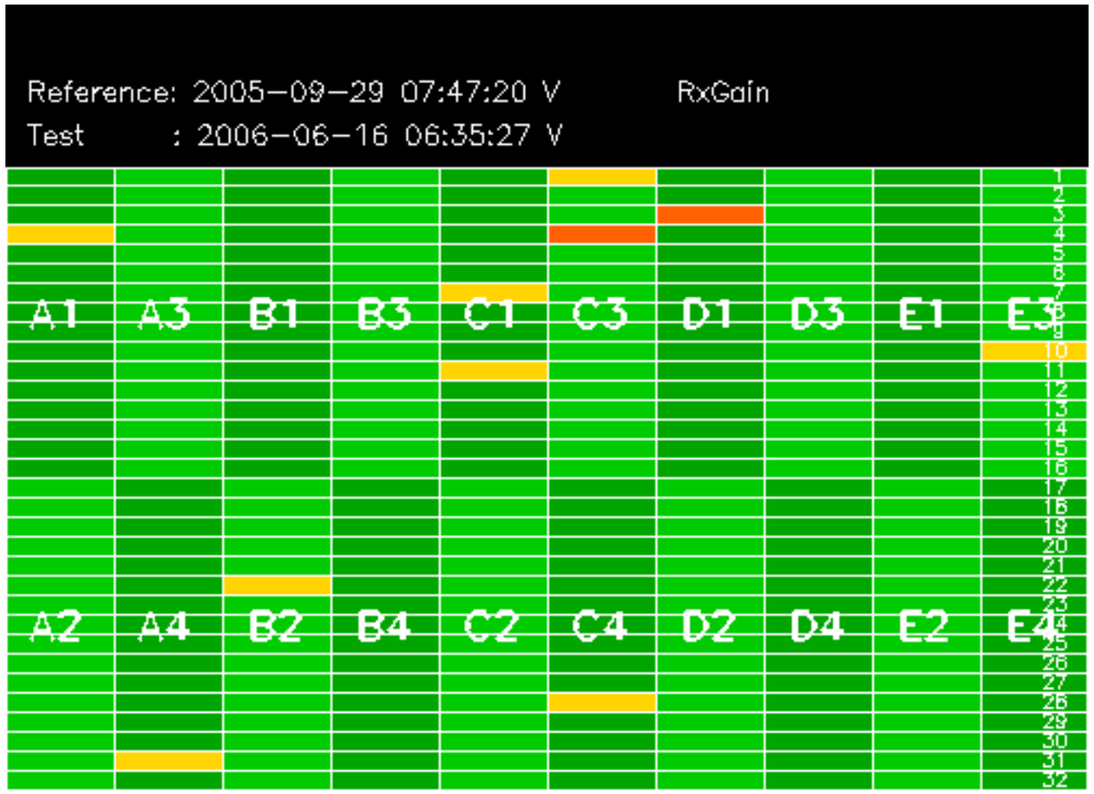
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-16 06:35:27 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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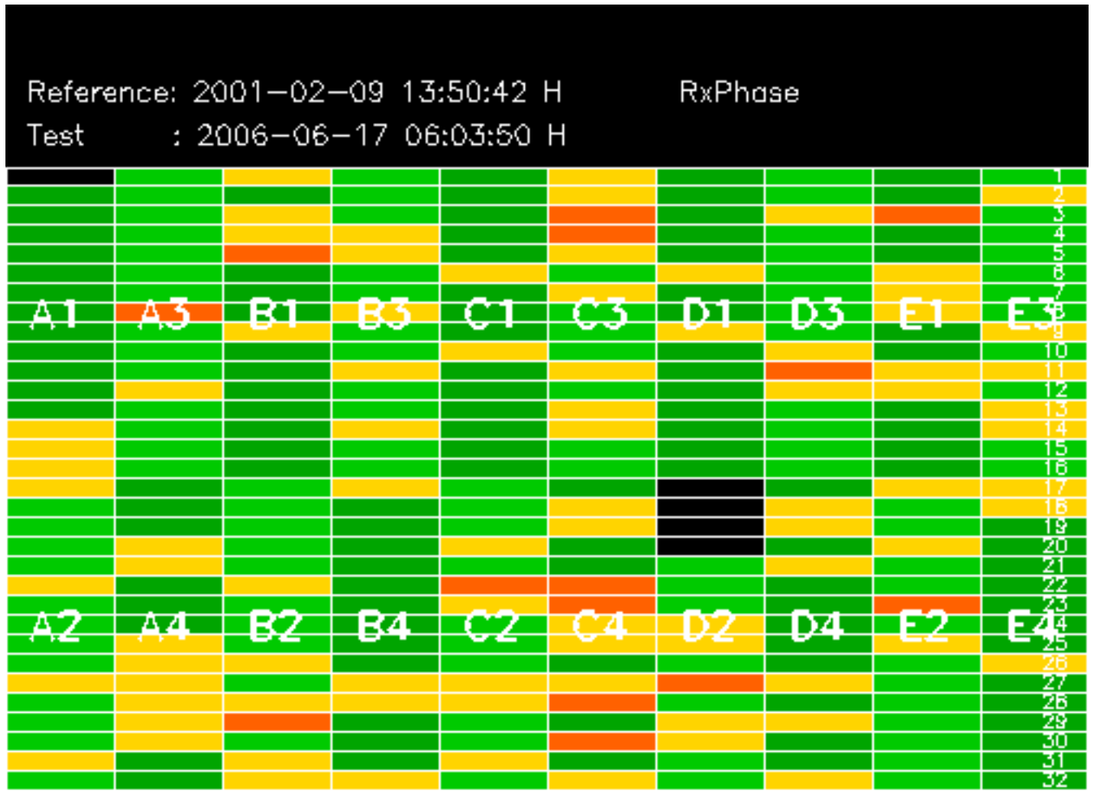
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-06-17 06:03:50 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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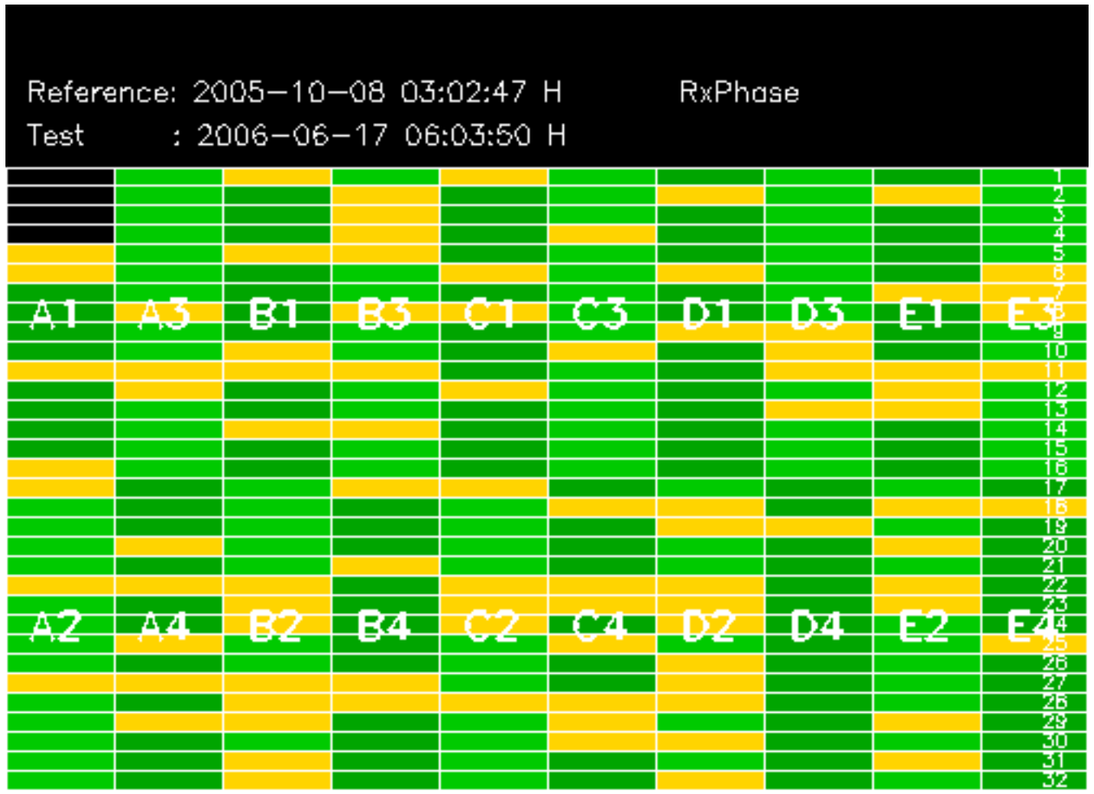
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-06-17 06:03:50 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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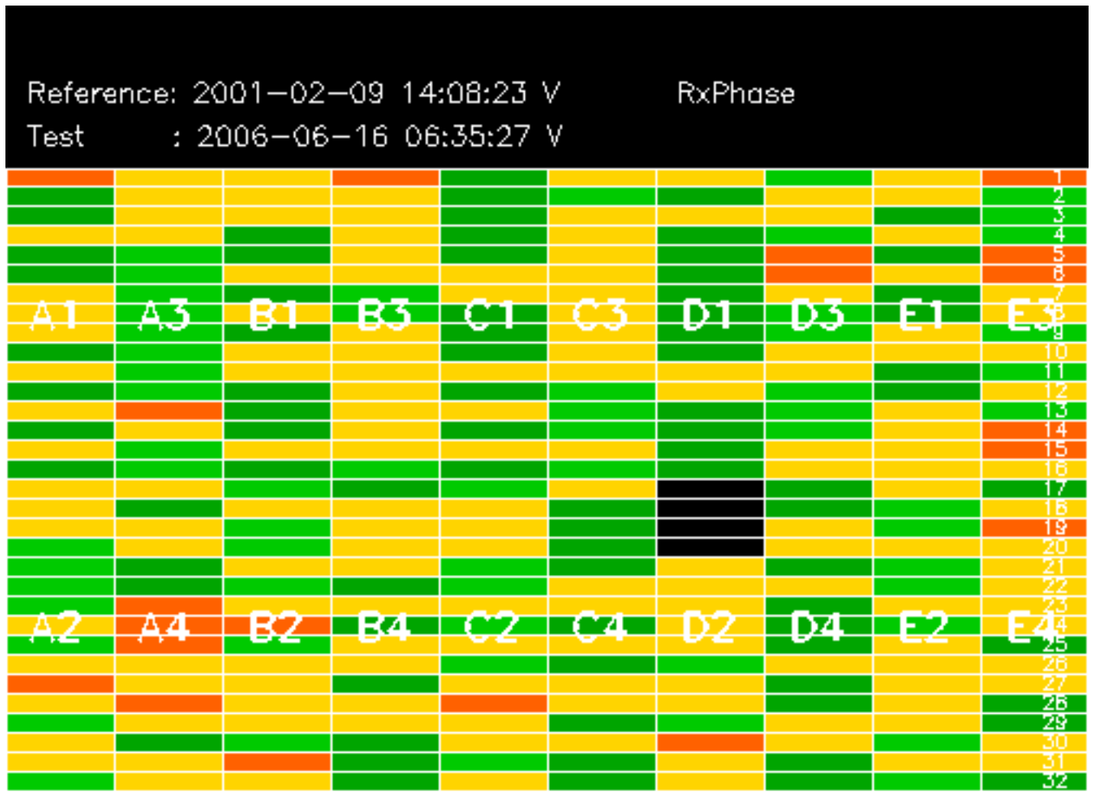
Reference: 2001-02-09 14:08:23 V
RxPhase
Test : 2006-06-16 06:35:27 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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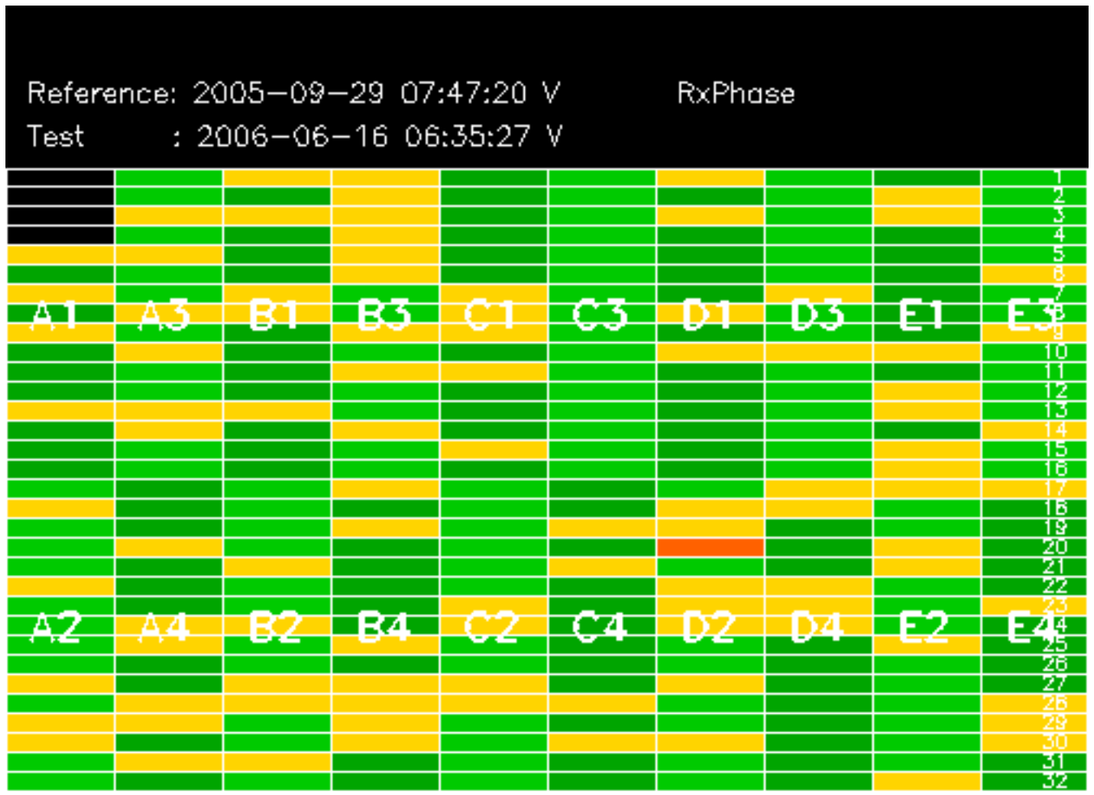
Reference: 2005-09-29 07:47:20 V
RxPhase
Test : 2006-06-16 06:35:27 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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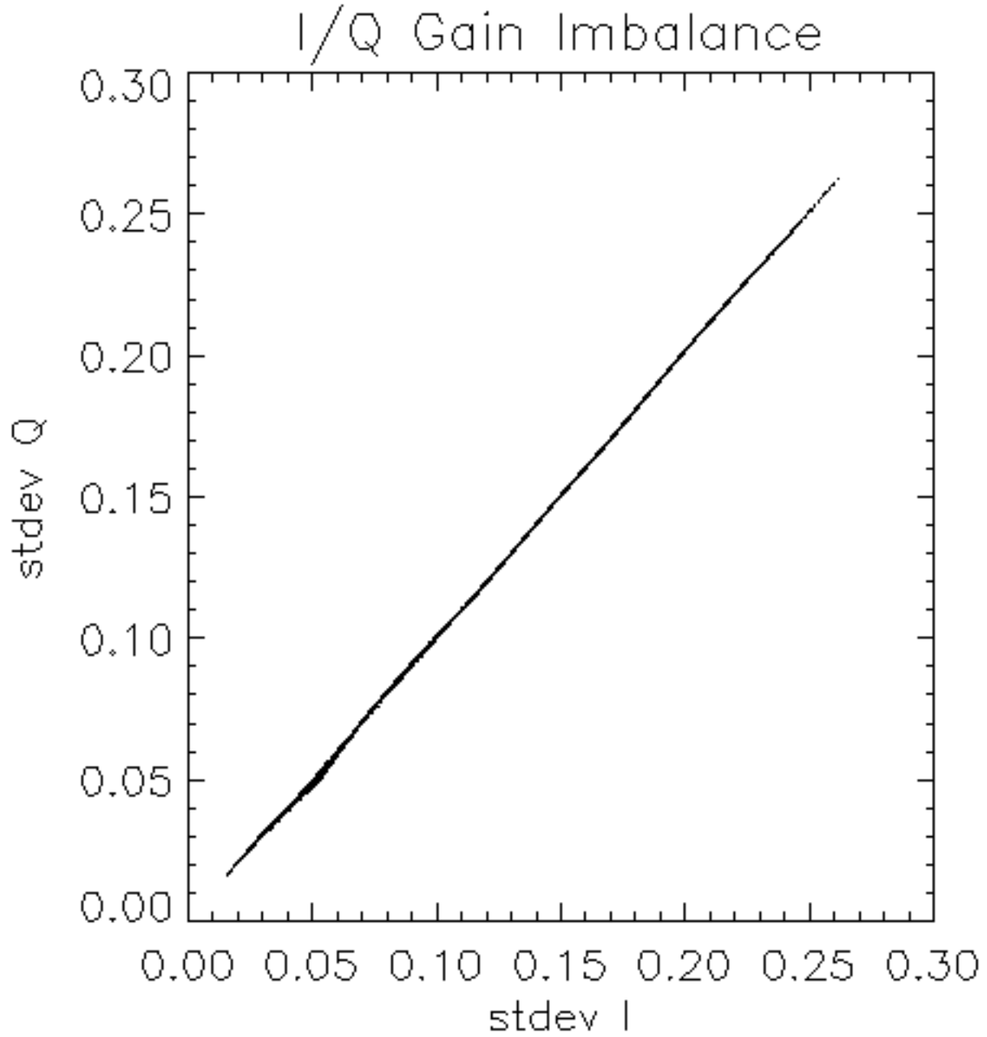
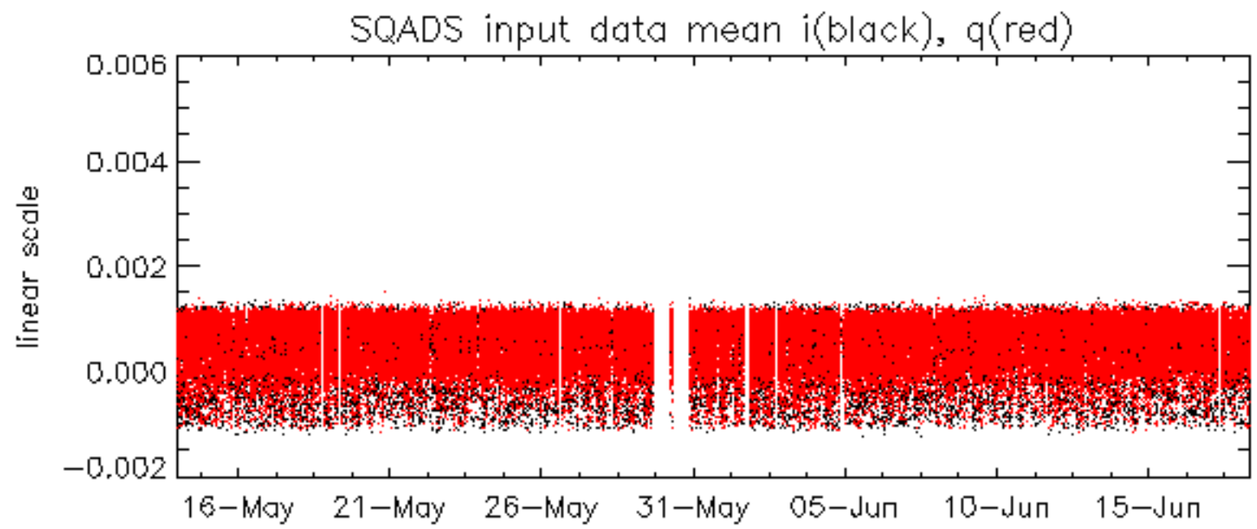
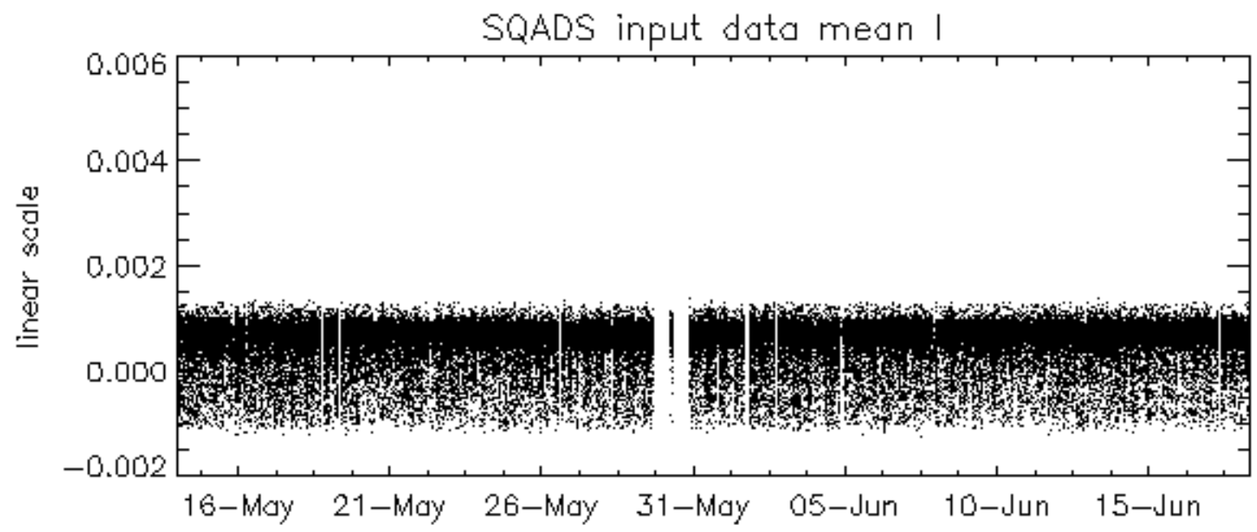
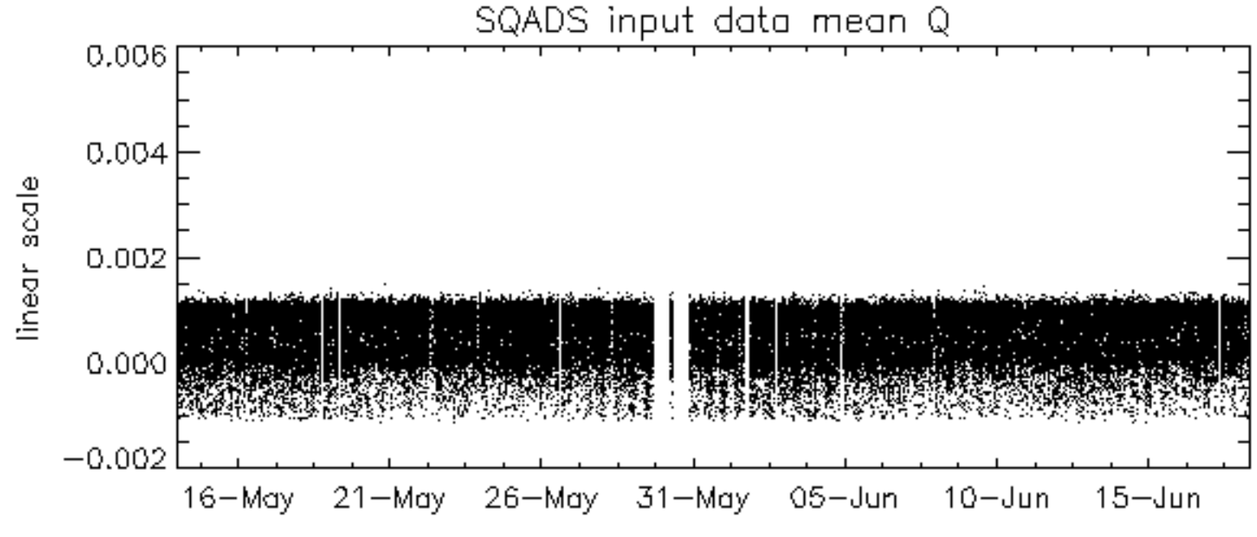
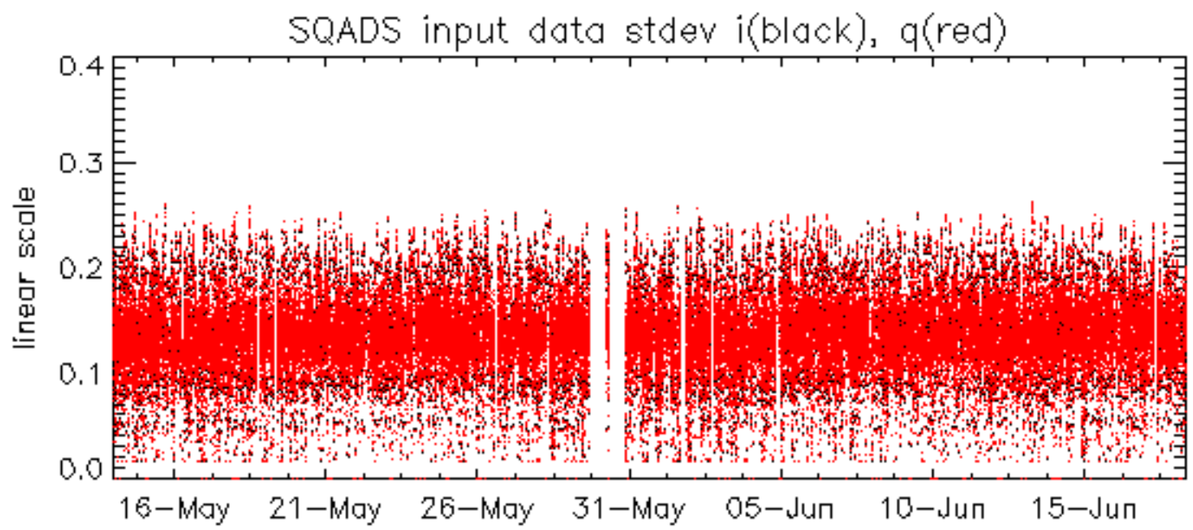
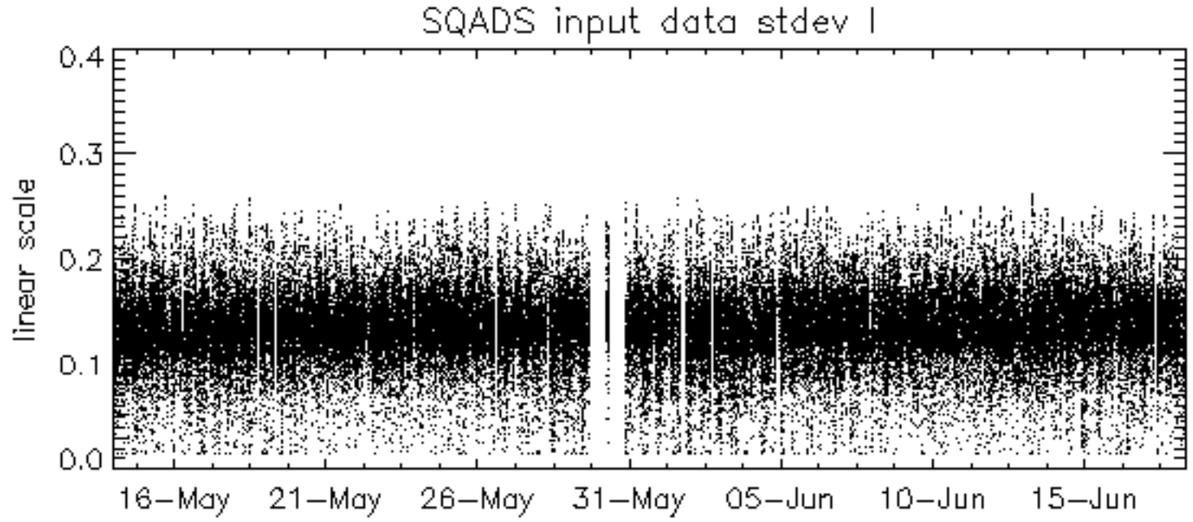

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

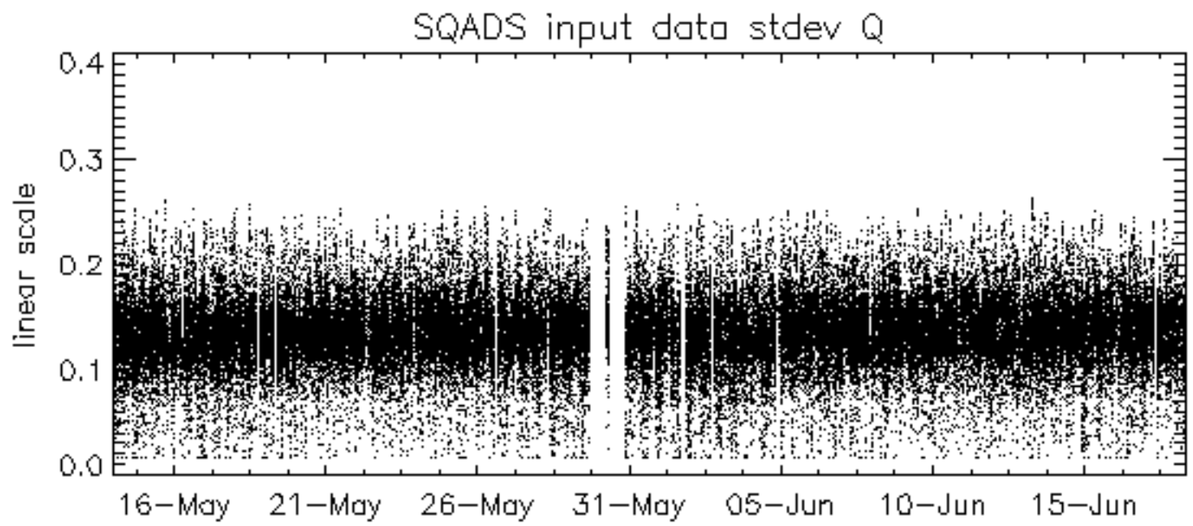

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
16−May
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun

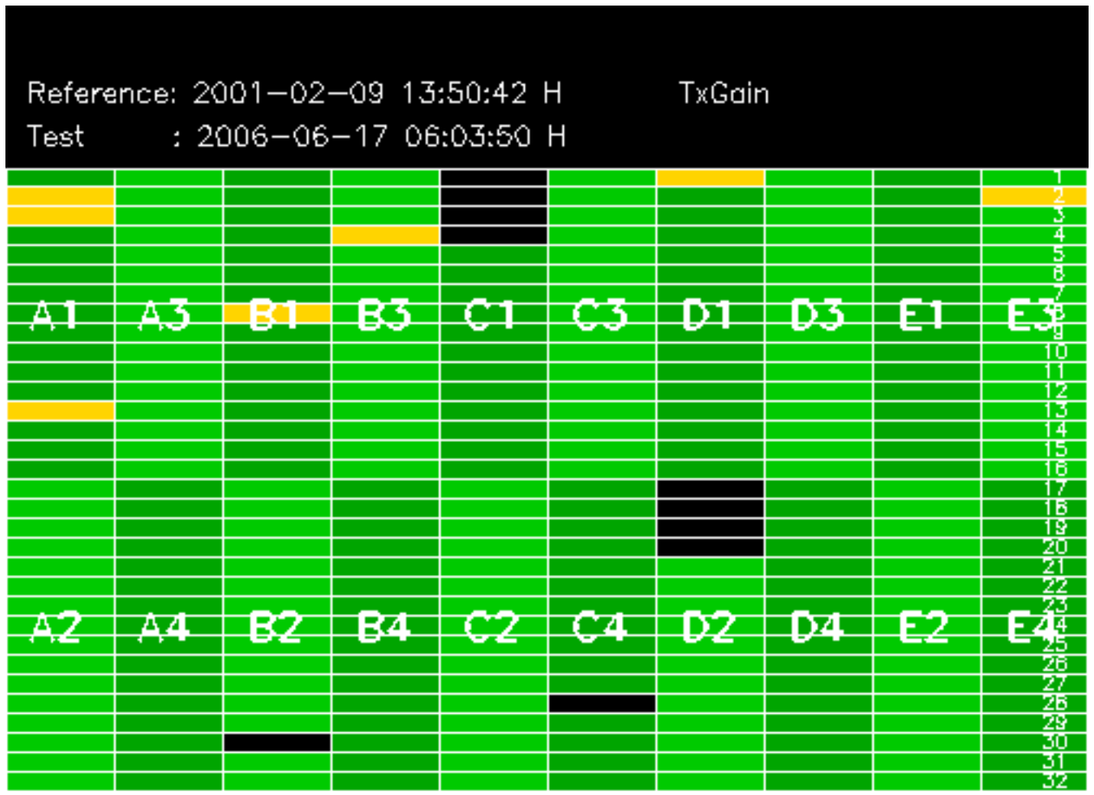

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
16−May
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-17 06:03:50 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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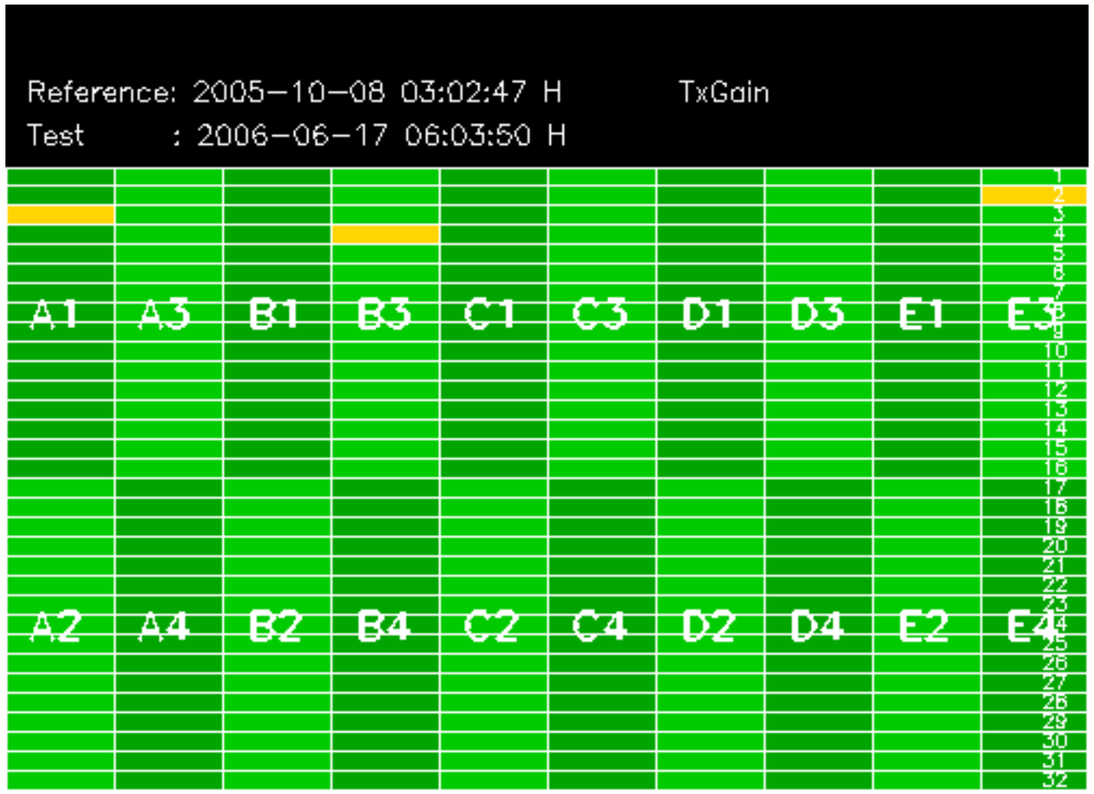
Reference: 2005-10-08 03:02:47 H
Test : 2006-06-17 06:03:50 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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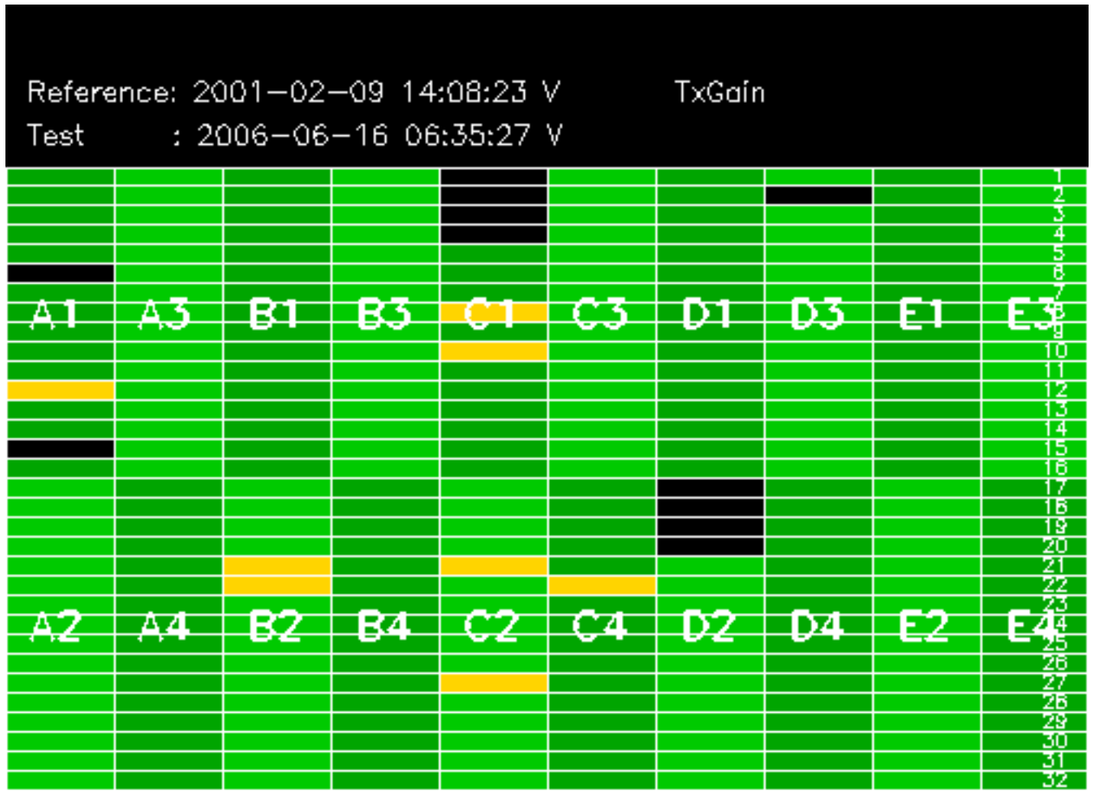
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-16 06:35:27 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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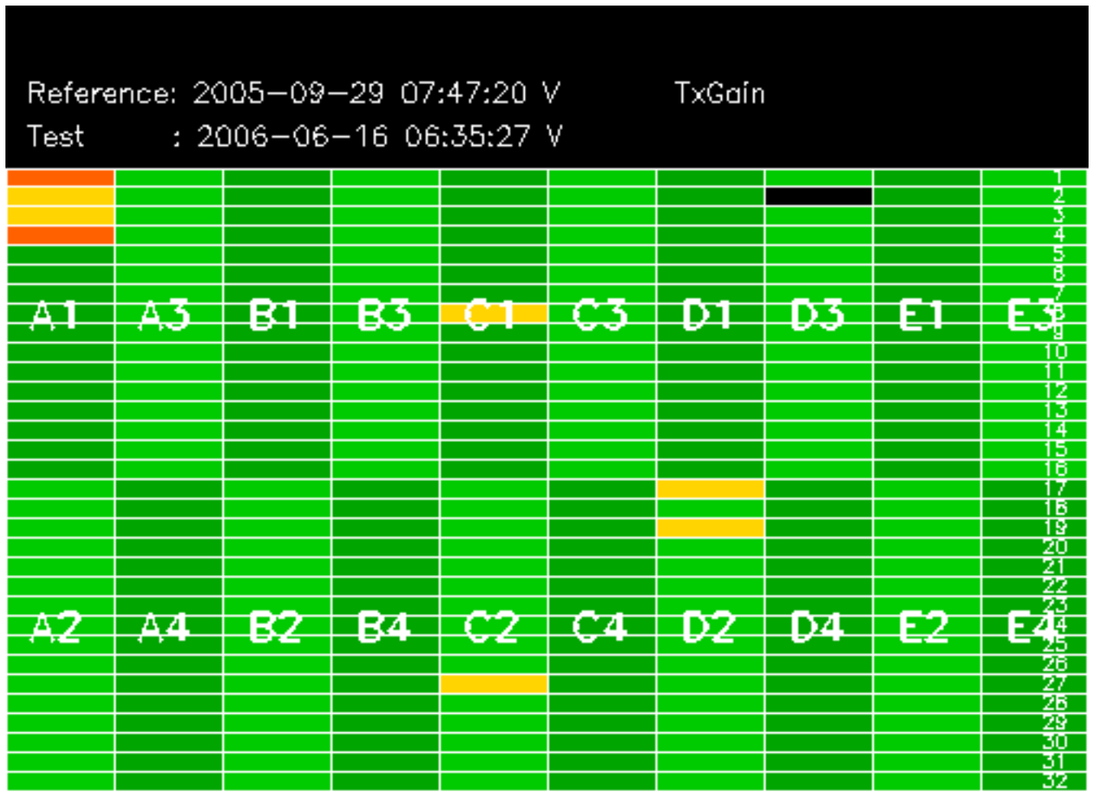
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-16 06:35:27 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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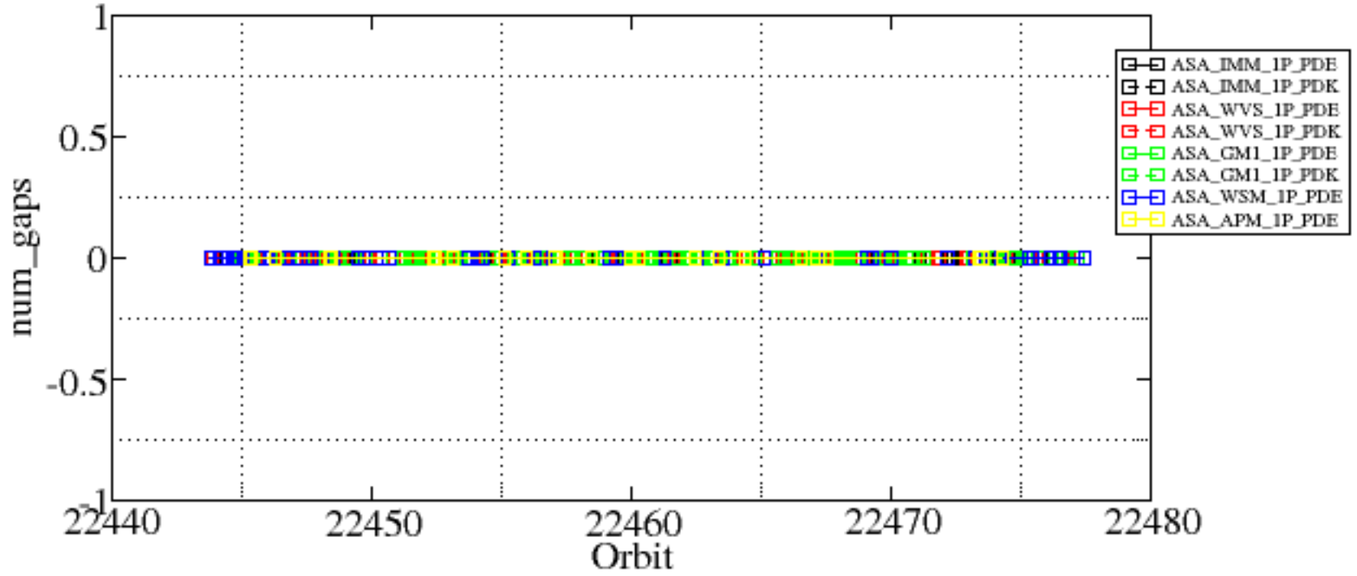
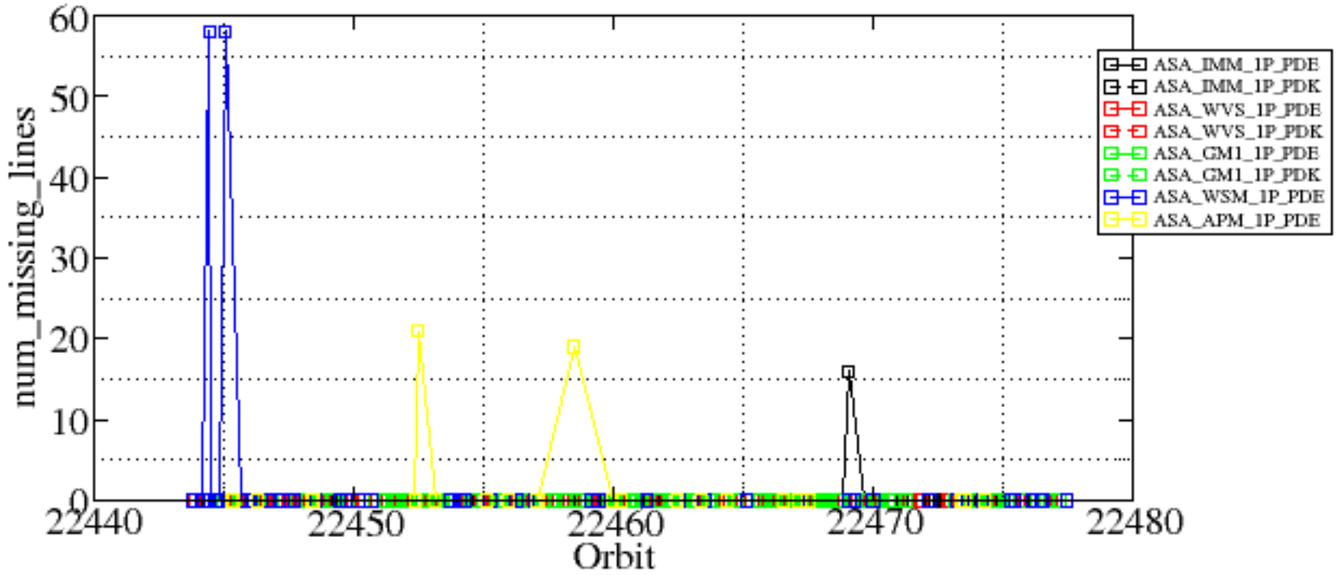
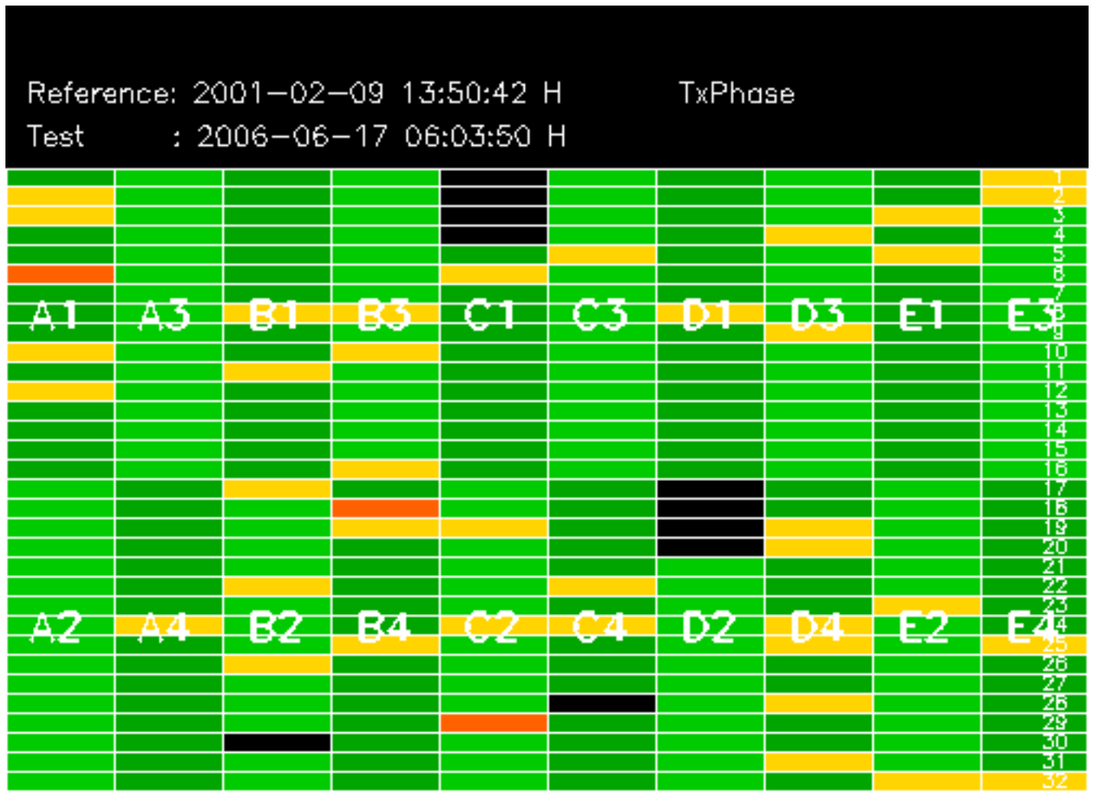
Summary of analysis for the last 3 days 2006061[678]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060617_182649_000000352048_00371_22469_7779.N1 </td> <td>0 </td> <td>16 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060616_011001_000000672048_00346_22444_4337.N1 </td> <td>0 </td> <td>58 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060616_021252_000002692048_00347_22445_4352.N1 </td> <td>0 </td> <td>58 </td></tr>
<tr> <td>ASA_APM_1PNPDE20060616_143704_000000872048_00354_22452_3436.N1 </td> <td>0 </td> <td>21 </td></tr>
<tr> <td>ASA_APM_1PNPDE20060617_004226_000000562048_00360_22458_3444.N1 </td> <td>0 </td> <td>19 </td></tr>
</table>


num_gaps
1
0.5
0
-0.5
-1
22440
22450
22460
22470
22480
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


num_missing_lines
60
50
40
30
20
10
0
22440
22450
22460
22470
22480
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


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-17 06:03:50 H
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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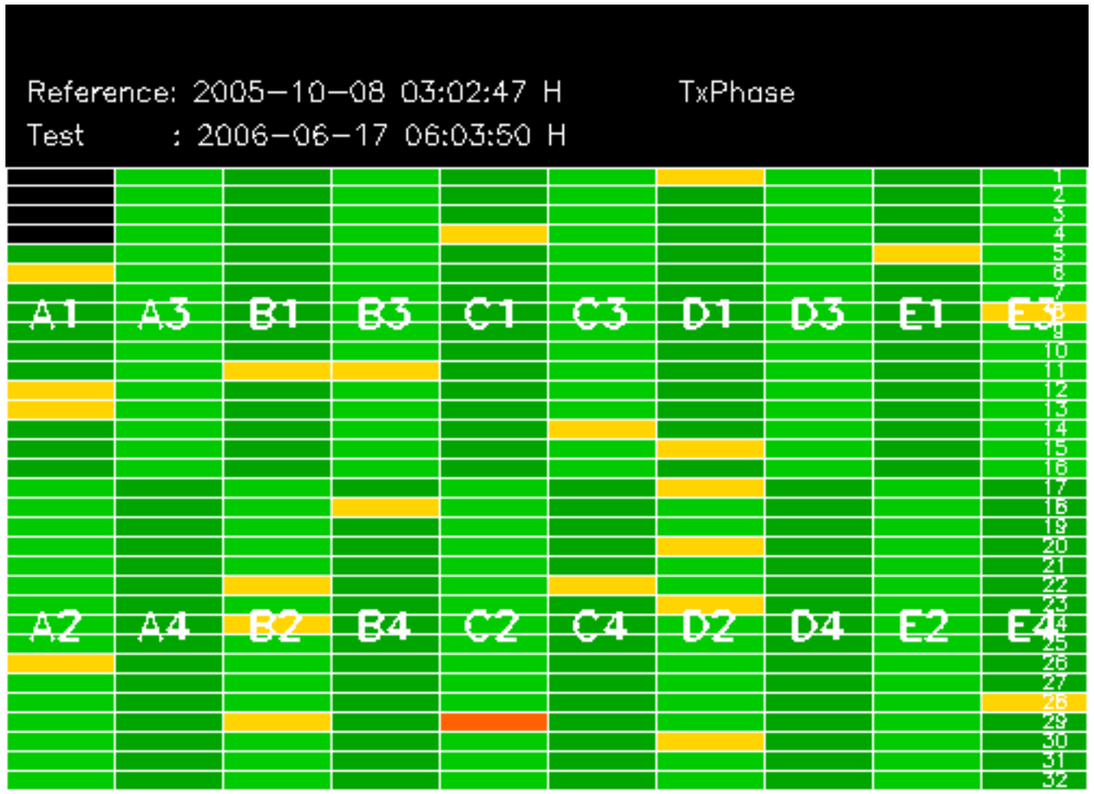
Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2006-06-17 06:03:50 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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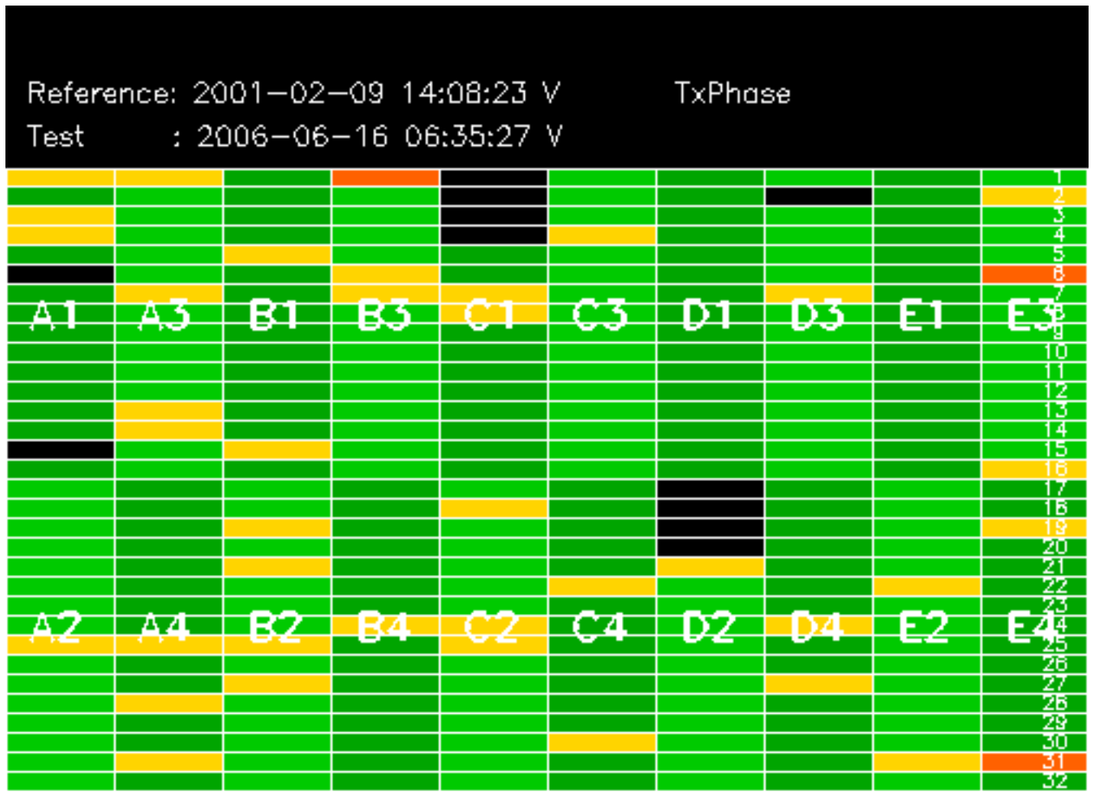
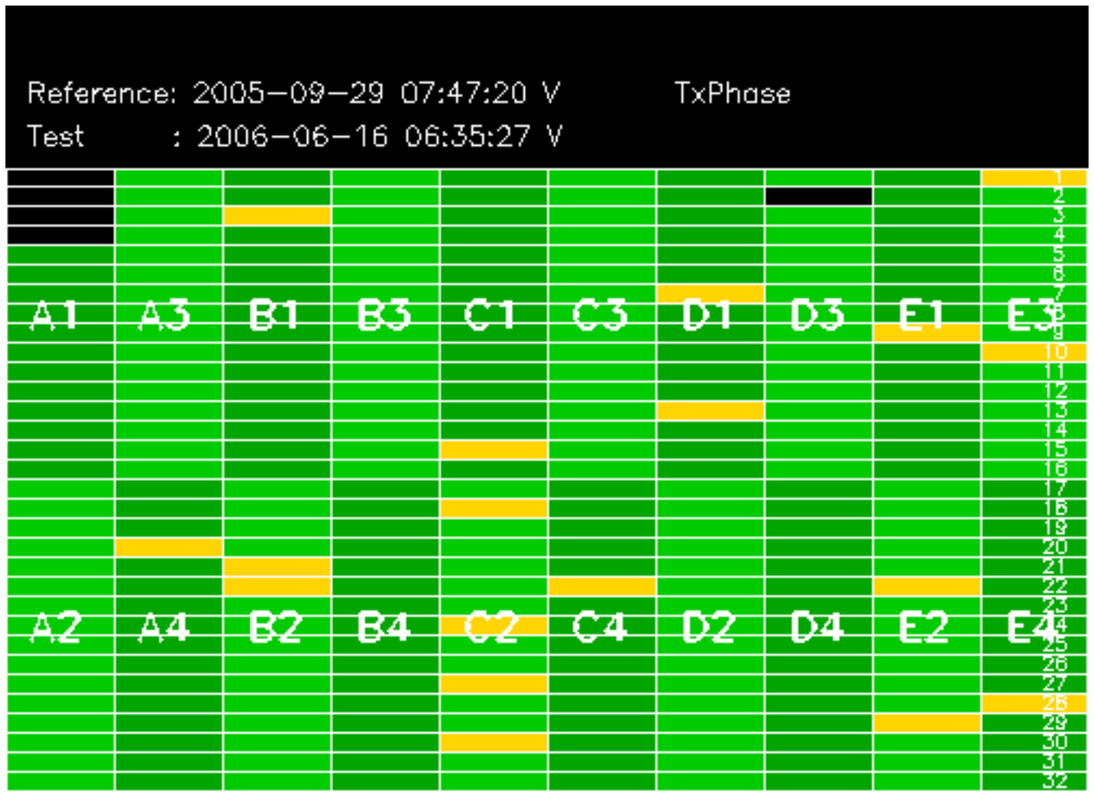

Reference: 2001-02-09 14:08:23 V
Test : 2006-06-16 06:35:27 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-06-16 06:35:27 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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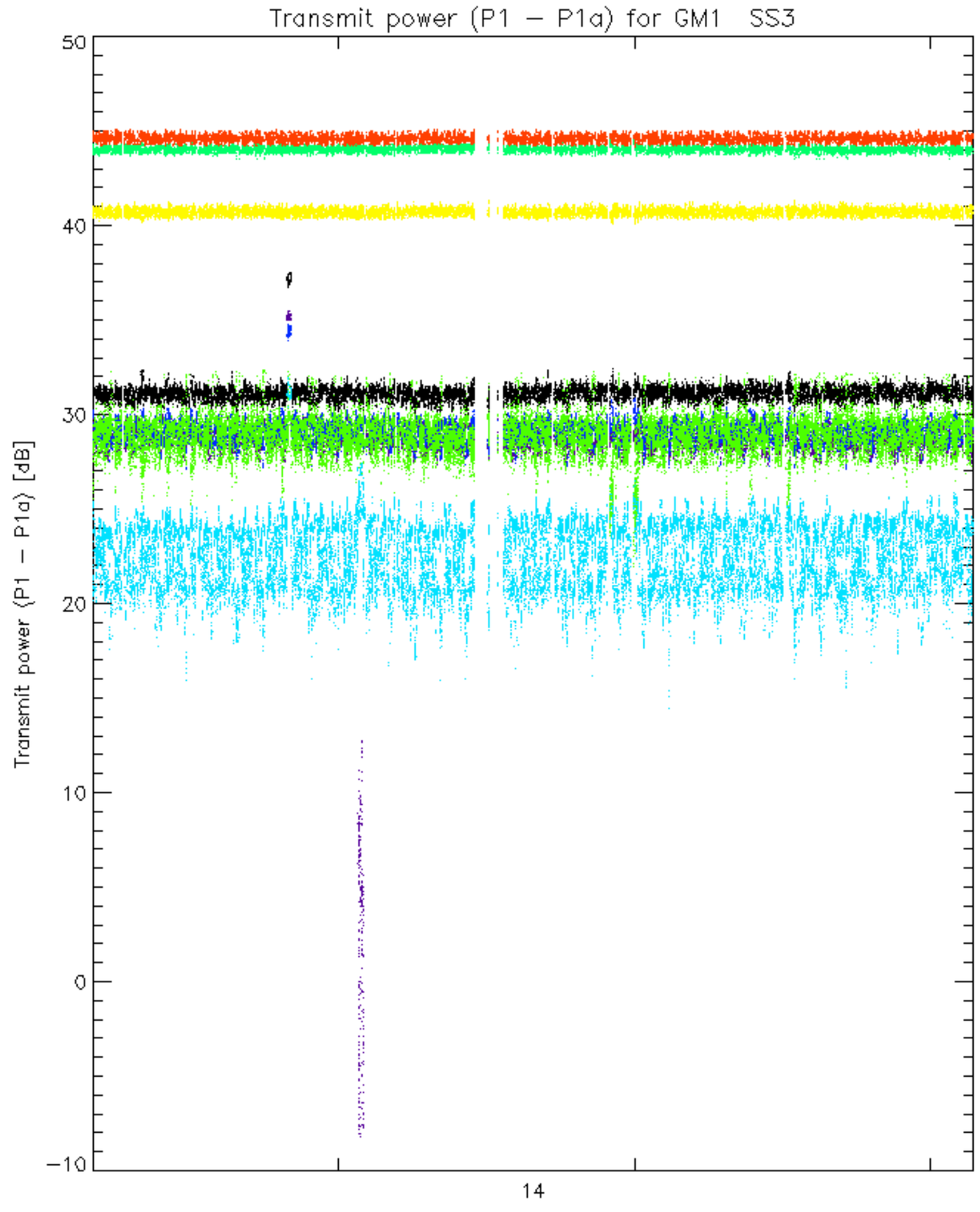
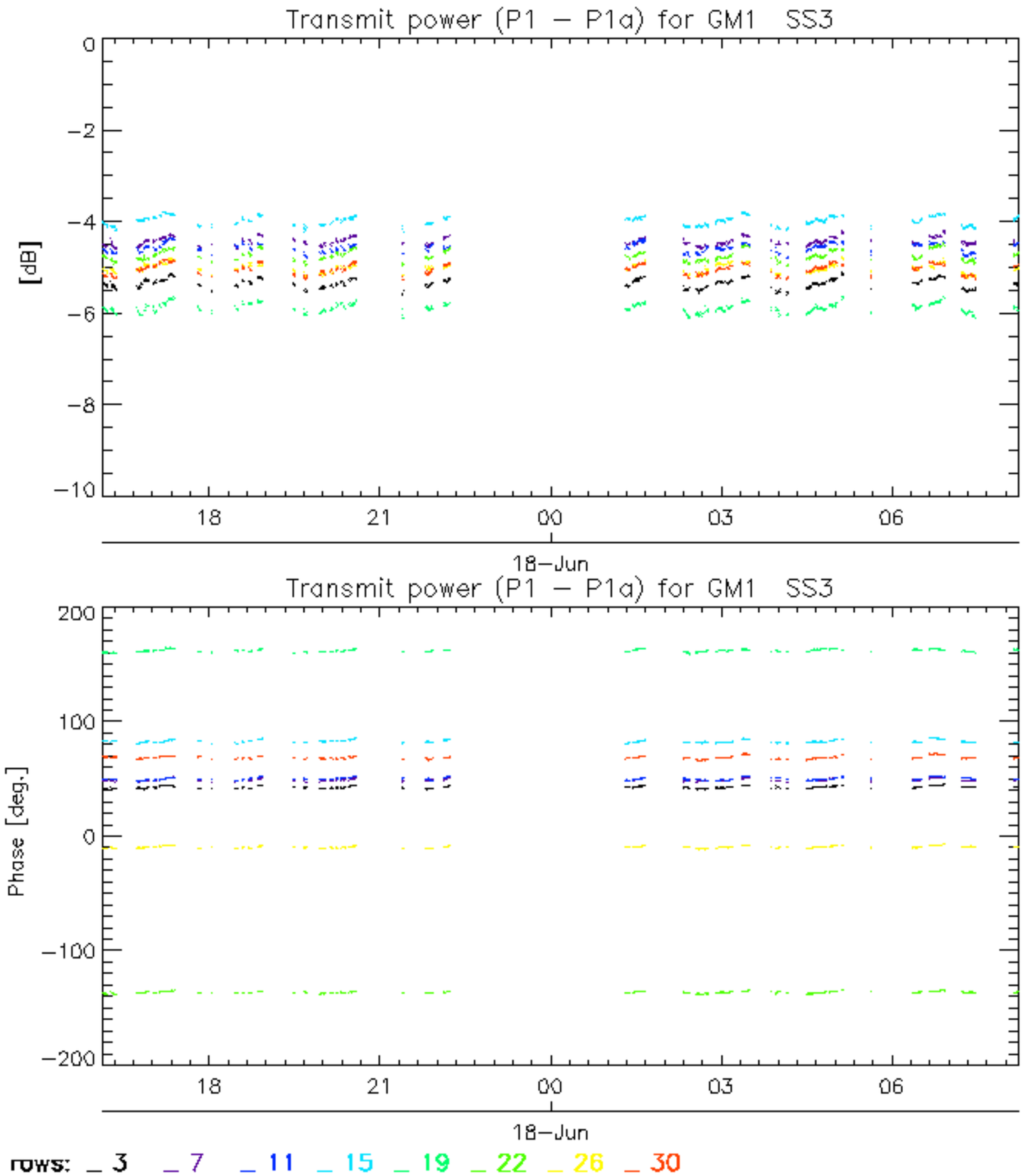
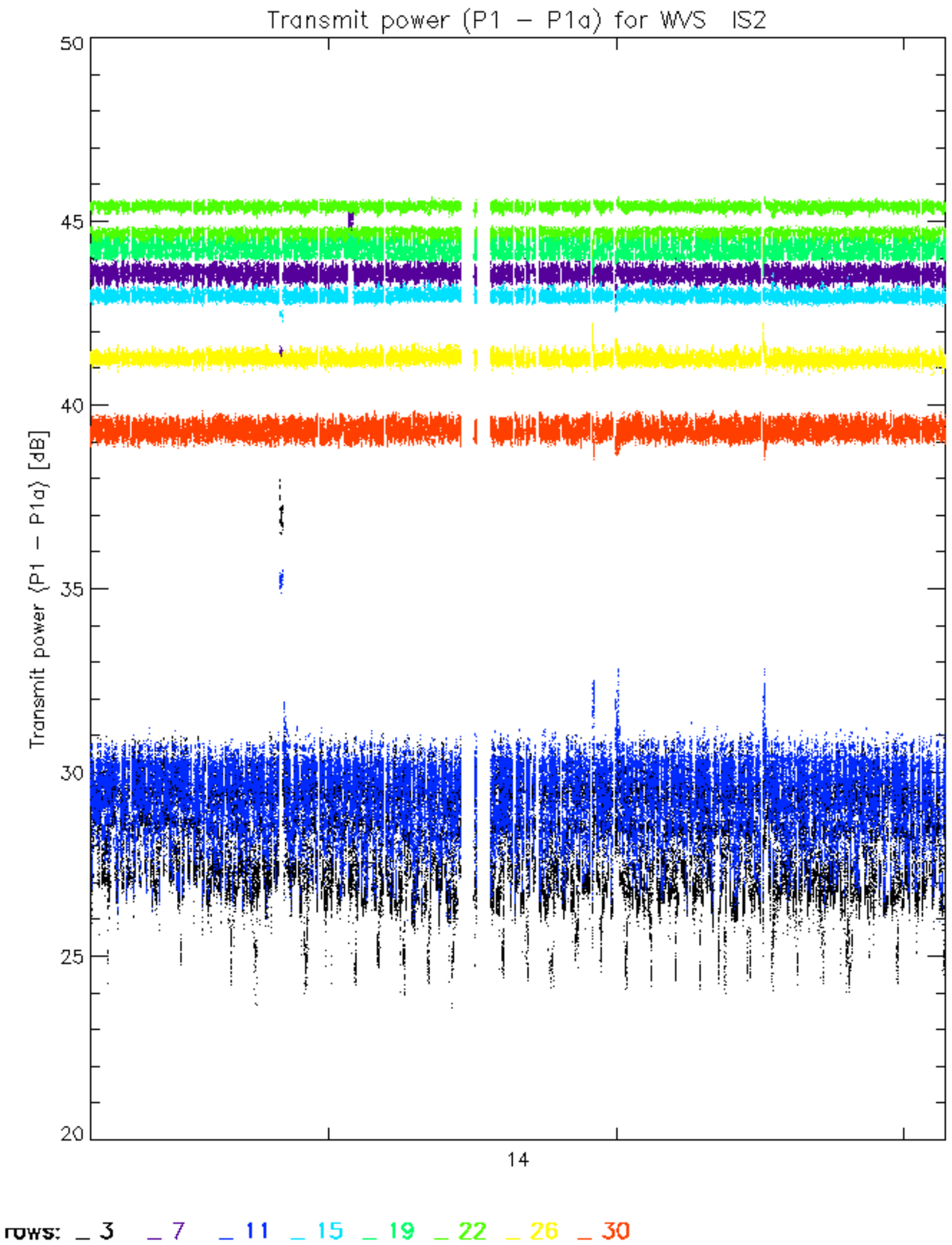
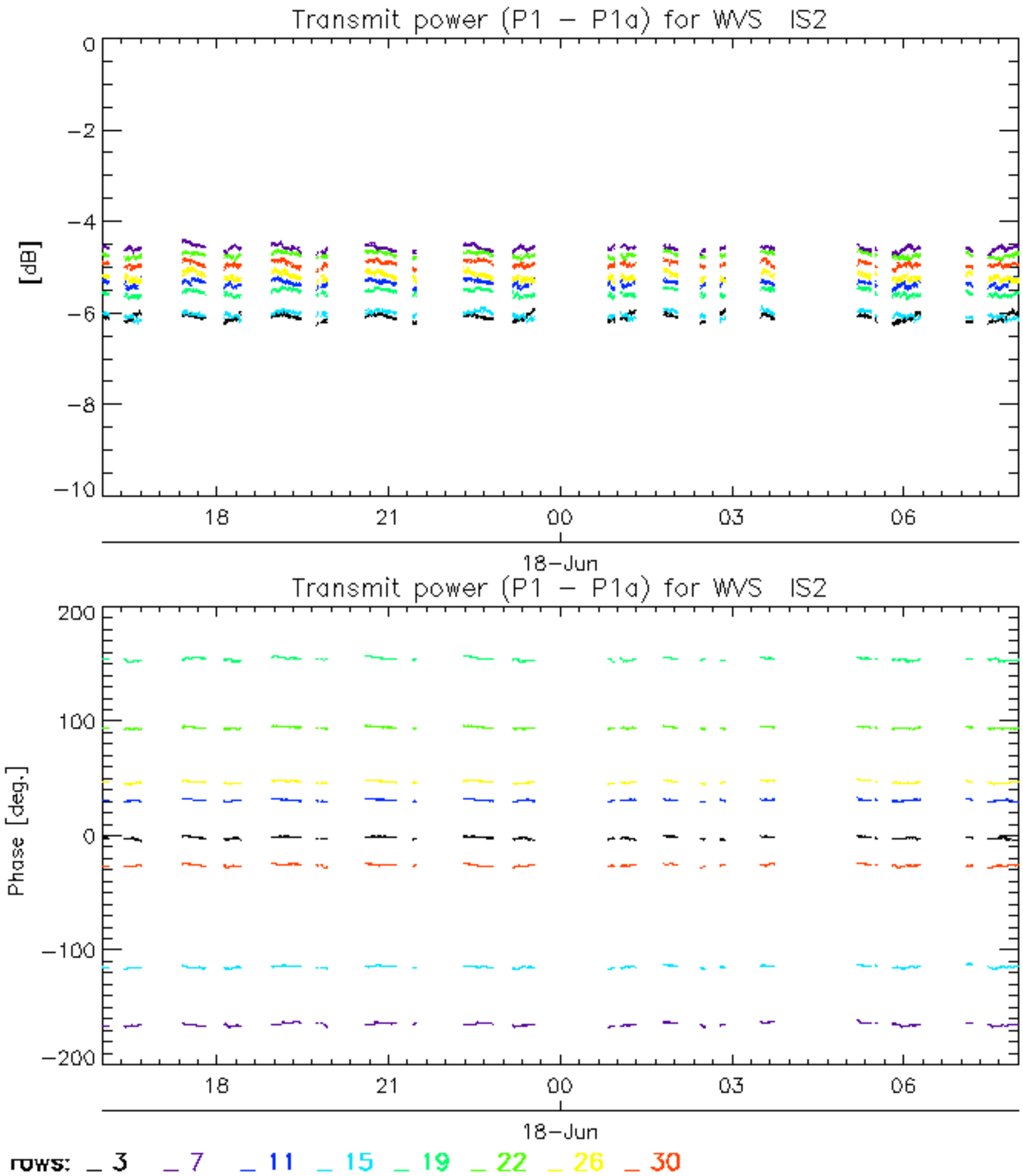

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
14
rows: 3 7 11 15 19 22 26 30


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


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
50
45
40
35
30
25
20
14
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
18–Jun
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
18–Jun
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.