PRELIMINARY REPORT OF 060627

last update on Tue Jun 27 16:48:16 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 2006-06-26 00:00:00 to 2006-06-27 16:48:17

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

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	43	72	13	0	24
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	43	72	13	0	24
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	43	72	13	0	24
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	43	72	13	0	24

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	38	49	27	19	55
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	38	49	27	19	55
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	38	49	27	19	55
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	38	49	27	19	55

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	20060626 180518
H	20060625 183654

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	-3.941021	0.046381	-0.046264
7	P1	-3.135745	0.012823	-0.016227
11	P1	-4.102430	0.016577	-0.003063
15	P1	-6.150878	0.019453	-0.078697
19	P1	-3.359083	0.008554	-0.056361
22	P1	-4.520997	0.011649	-0.044940
26	P1	-3.964936	0.017064	0.030985
30	P1	-5.752470	0.008928	-0.033603
3	P1	-16.542622	0.569853	-0.149912
7	P1	-17.231371	0.136372	-0.092546
11	P1	-16.971004	0.281392	-0.076591
15	P1	-13.199425	0.197426	0.092440
19	P1	-14.356315	0.051934	-0.153909
22	P1	-16.155754	0.371541	0.052180
26	P1	-15.198384	0.227321	0.127364
30	P1	-17.150690	0.412166	-0.033370

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.114168	0.082055	0.137360
7	P2	-22.004364	0.098609	0.104627
11	P2	-15.847548	0.111752	0.103142
15	P2	-7.154795	0.095198	-0.004270
19	P2	-9.167756	0.086970	0.009813
22	P2	-18.167788	0.083687	-0.033334
26	P2	-16.407150	0.089128	-0.049792
30	P2	-19.553698	0.088103	0.001052

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.184292	0.003934	-0.014503
7	P3	-8.184292	0.003934	-0.014503
11	P3	-8.184292	0.003934	-0.014503
15	P3	-8.184292	0.003934	-0.014503
19	P3	-8.184292	0.003934	-0.014503
22	P3	-8.184292	0.003934	-0.014503
26	P3	-8.184292	0.003934	-0.014503
30	P3	-8.184292	0.003934	-0.014503

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	-3.811171	0.052066	-0.098537
7	P1	-2.574022	0.012482	0.003250
11	P1	-2.855336	0.013371	0.005414
15	P1	-3.514780	0.032343	-0.083015
19	P1	-3.412251	0.014378	-0.018965
22	P1	-5.082992	0.019614	0.001234
26	P1	-5.856979	0.016120	-0.026904
30	P1	-5.190512	0.026319	-0.011673
3	P1	-11.644104	0.141160	-0.090647
7	P1	-9.976467	0.034985	-0.022899
11	P1	-10.233123	0.059274	-0.010138
15	P1	-10.693545	0.134343	-0.016294
19	P1	-15.540998	0.076958	-0.014110
22	P1	-20.944788	1.166935	-0.022039

26	P1	-16.449440	0.331133	0.093369
30	P1	-17.879801	0.371443	0.086924

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.792730	0.075656	0.213946
7	P2	-22.474512	0.132226	0.097629
11	P2	-11.129920	0.049001	0.103305
15	P2	-4.919994	0.049501	-0.012253
19	P2	-6.881476	0.054207	0.007548
22	P2	-8.208360	0.043437	0.005364
26	P2	-24.156425	0.069600	-0.062738
30	P2	-22.054167	0.056866	0.047986

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.018942	0.004863	-0.009044
7	P3	-8.018987	0.004845	-0.008951
11	P3	-8.018922	0.004855	-0.009250
15	P3	-8.018854	0.004859	-0.008916
19	P3	-8.018833	0.004856	-0.008557
22	P3	-8.019042	0.004843	-0.008948
26	P3	-8.019072	0.004858	-0.008812
30	P3	-8.018909	0.004840	-0.008820

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	0.000563787
	stdev	1.68594e-07
MEAN Q	mean	0.000528428
	stdev	2.18869e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.137320
	stdev	0.00115788
STDEV Q	mean	0.137678
	stdev	0.00117568

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006062[567]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20060625_003958_000001552048_00474_22572_8683.N1	1	0
ASA_IMM_1PNPDE20060625_005615_000000362048_00475_22573_8684.N1	1	0
ASA_IMM_1PNPDE20060625_022556_000000362048_00476_22574_8697.N1	1	0
ASA_IMM_1PNPDE20060625_063915_000001102048_00478_22576_8747.N1	1	0
ASA_WSM_1PNPDE20060625_113214_000001292048_00481_22579_5331.N1	0	26

ASA_WSM_1PNPDE20060625_141258_000000912048_00483_22581_5337.N1	0	17
ASA_WSM_1PNPDE20060626_033514_000000862048_00491_22589_5429.N1	0	22
ASA_WSM_1PNPDK20060626_134018_000003002048_00497_22595_8394.N1	0	32

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

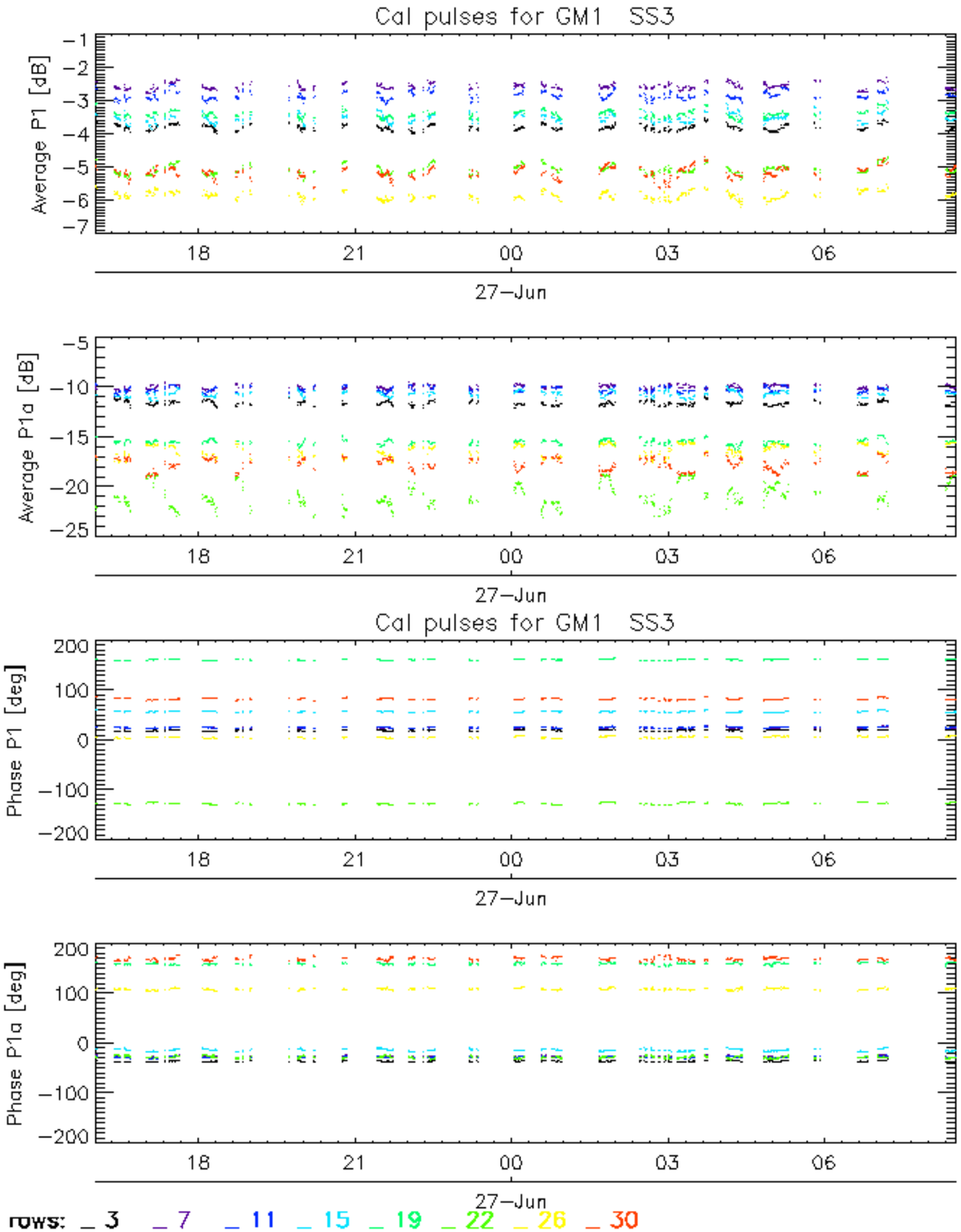
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

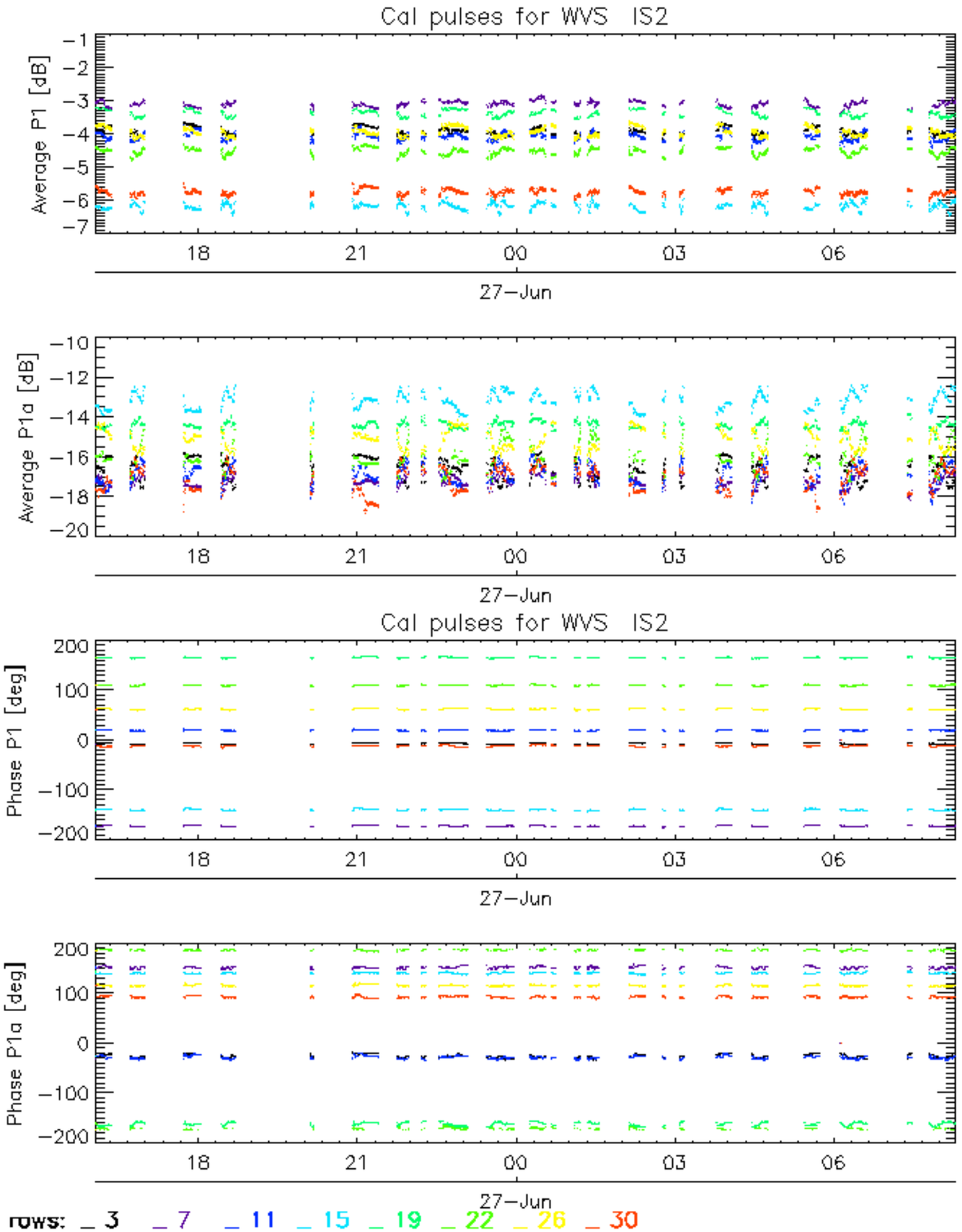
7.5 - Absolute Doppler for GM1

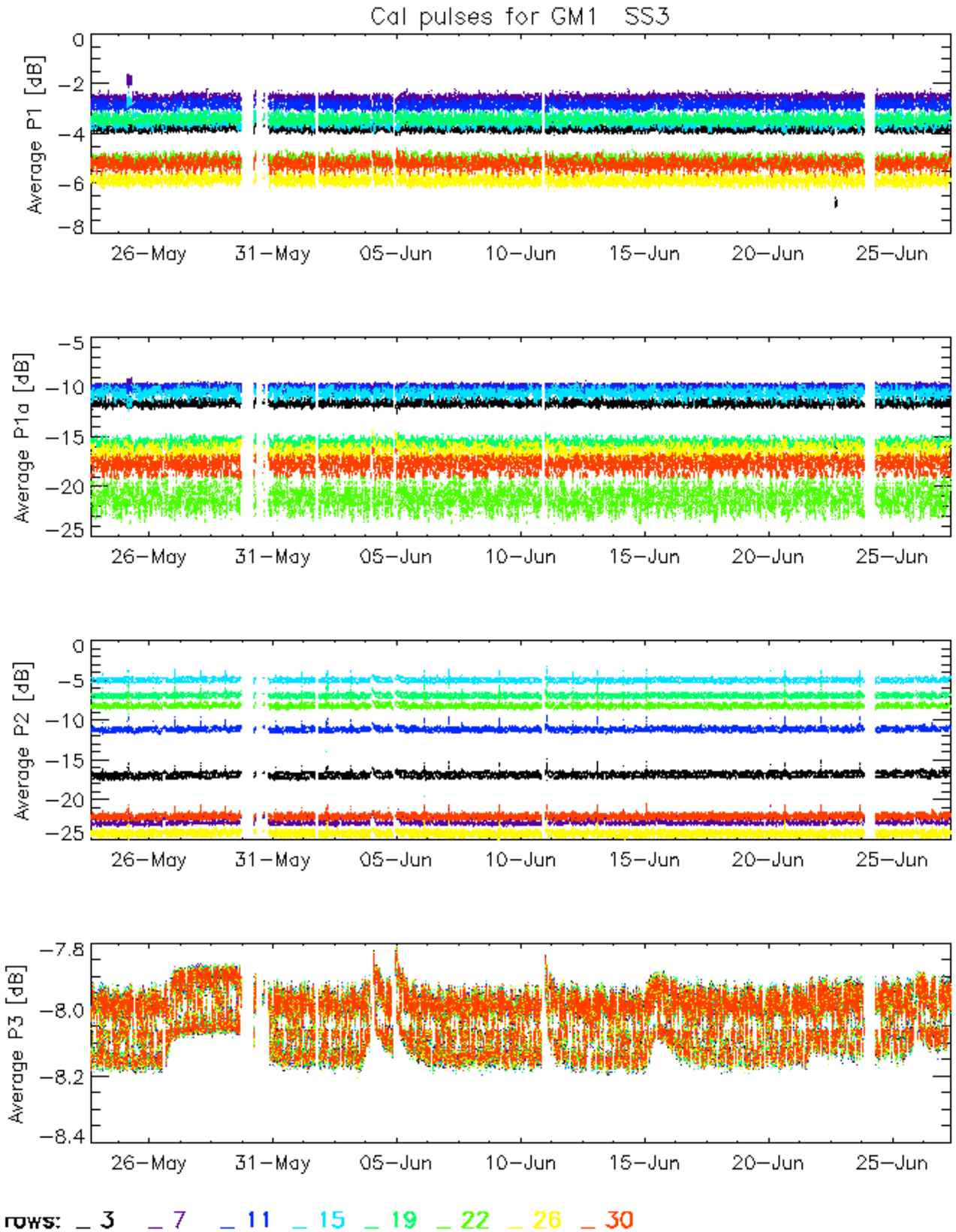
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

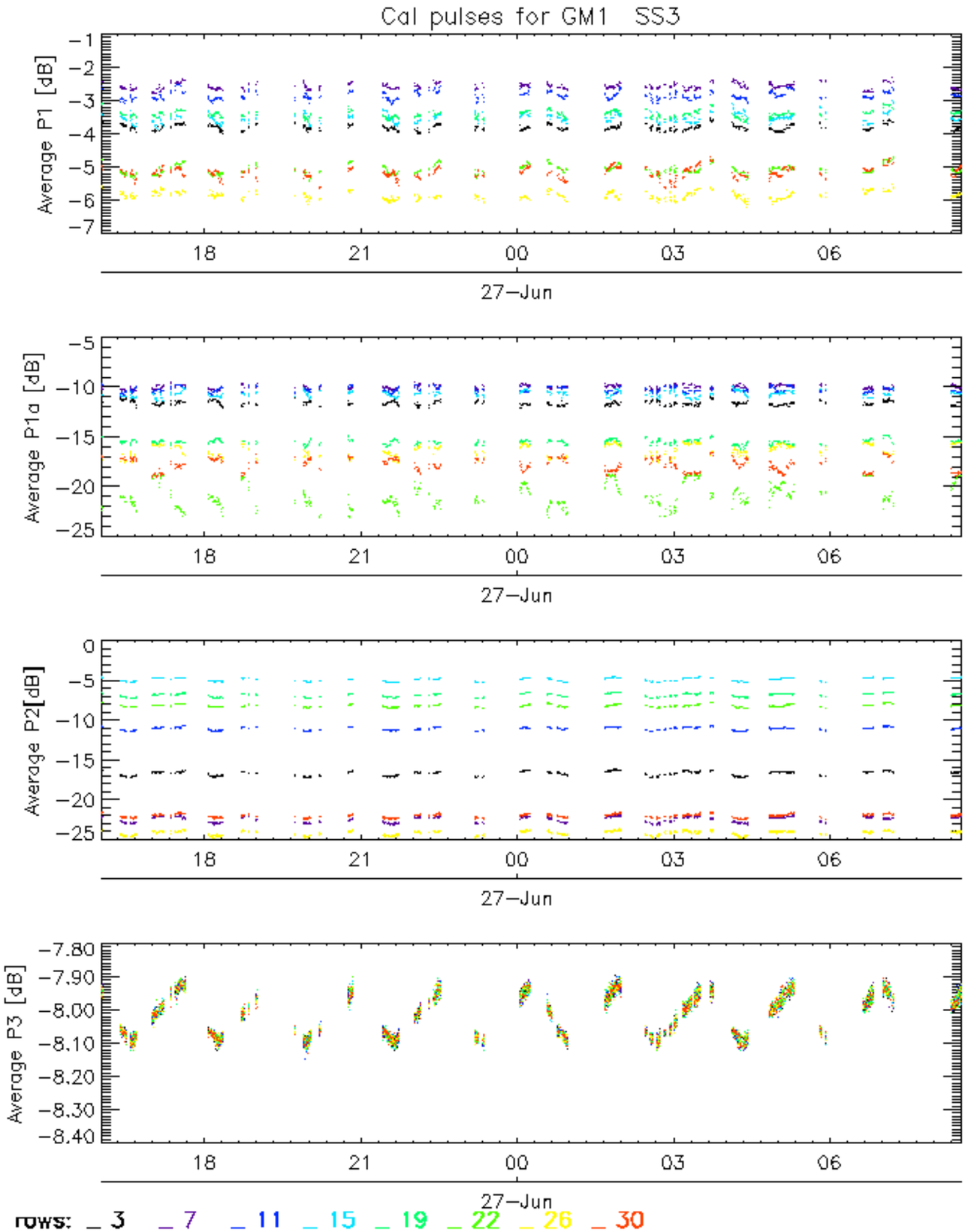
7.6 - Doppler evolution versus ANX for GM1

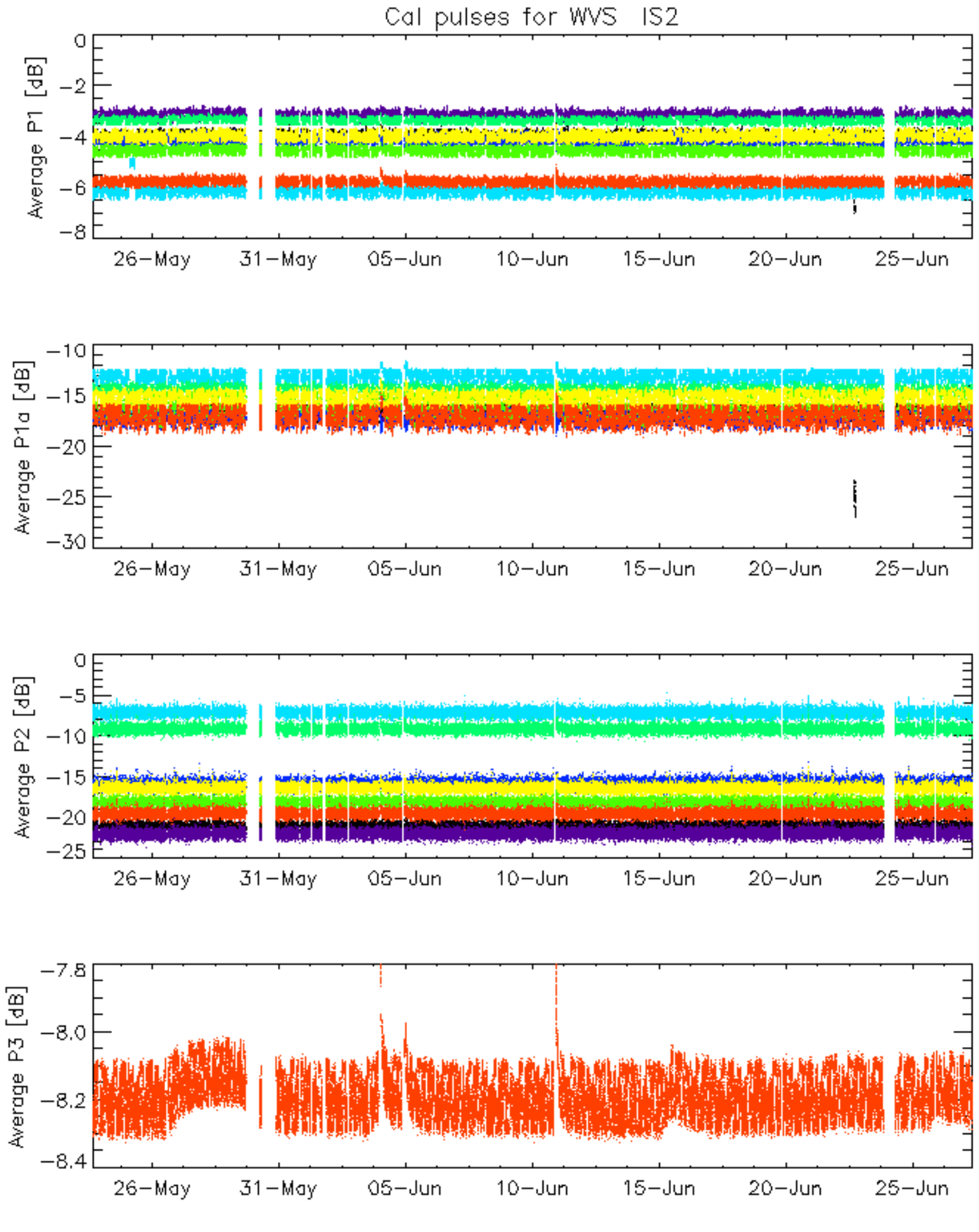
Evolution Doppler error versus ANX
☒

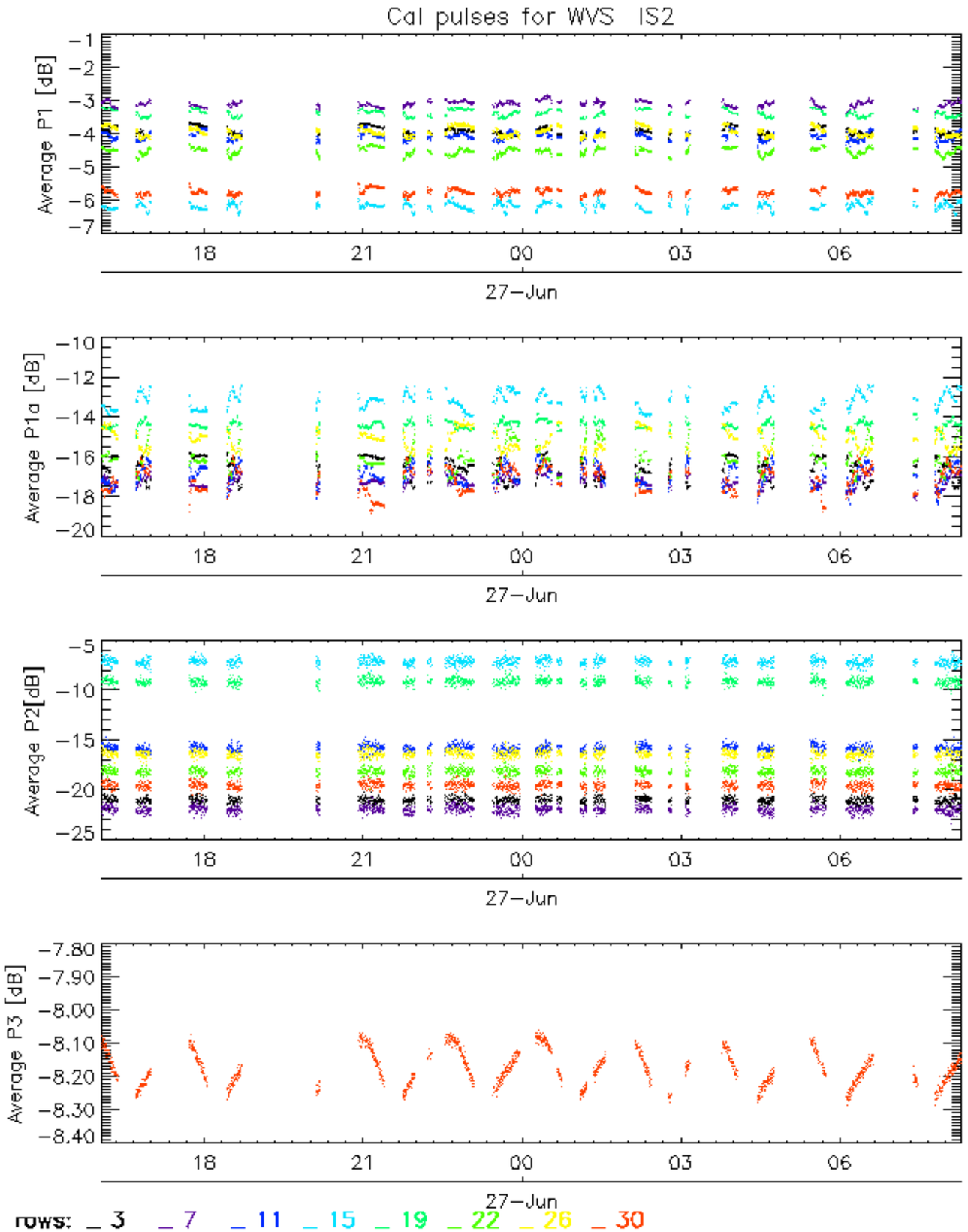

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
27−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
27−Jun
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
27−Jun
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
27−Jun
rows: _ 3 _ 7 _ 11 _ 15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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
27−Jun
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
27−Jun
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
27−Jun
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
27−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
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun
25−Jun
rows: 3 7 11 15 19 22 26 30

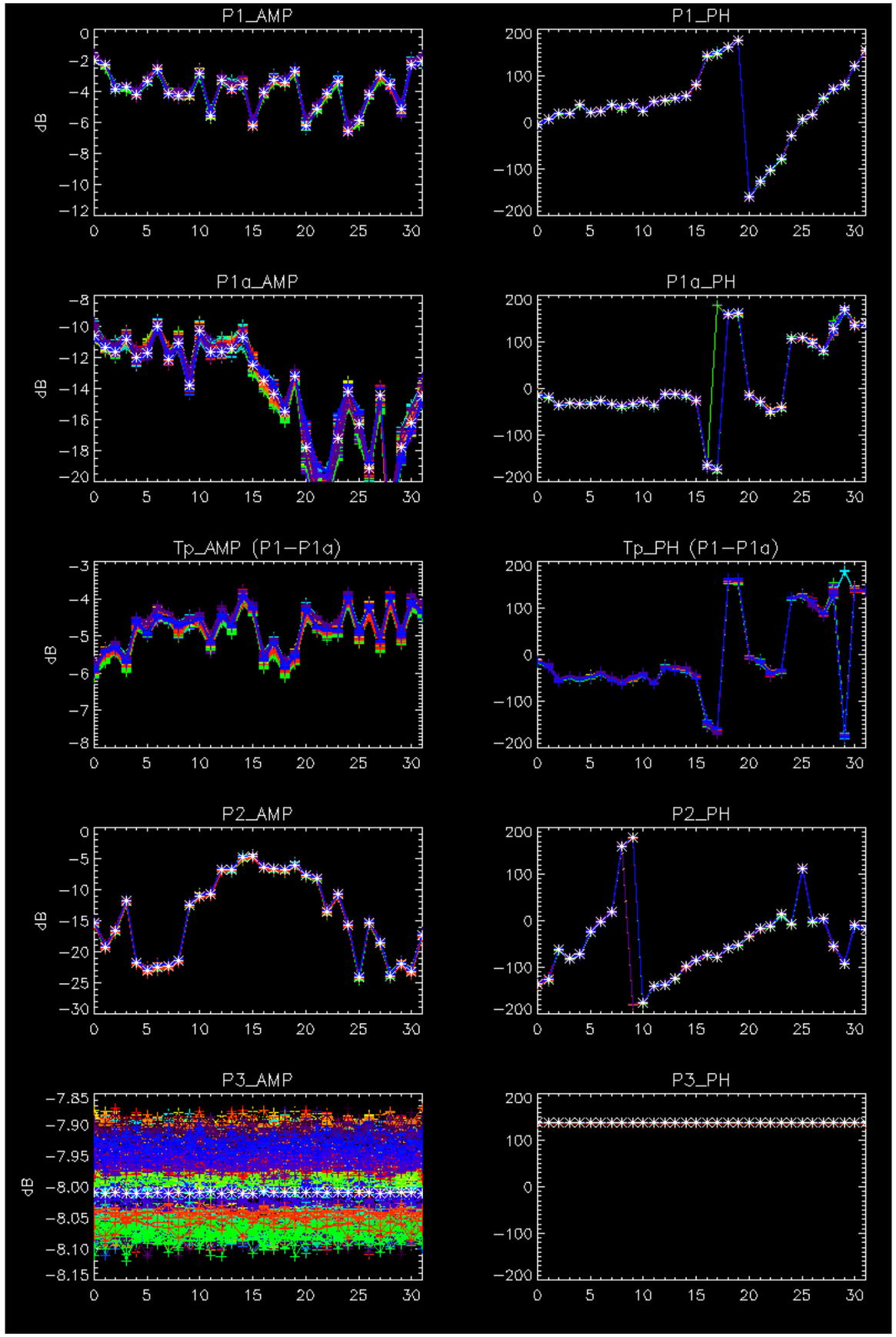

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
27−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
27−Jun
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
27−Jun
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
27−Jun
rows: _ 3 _ 7 _ 11 _ 15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

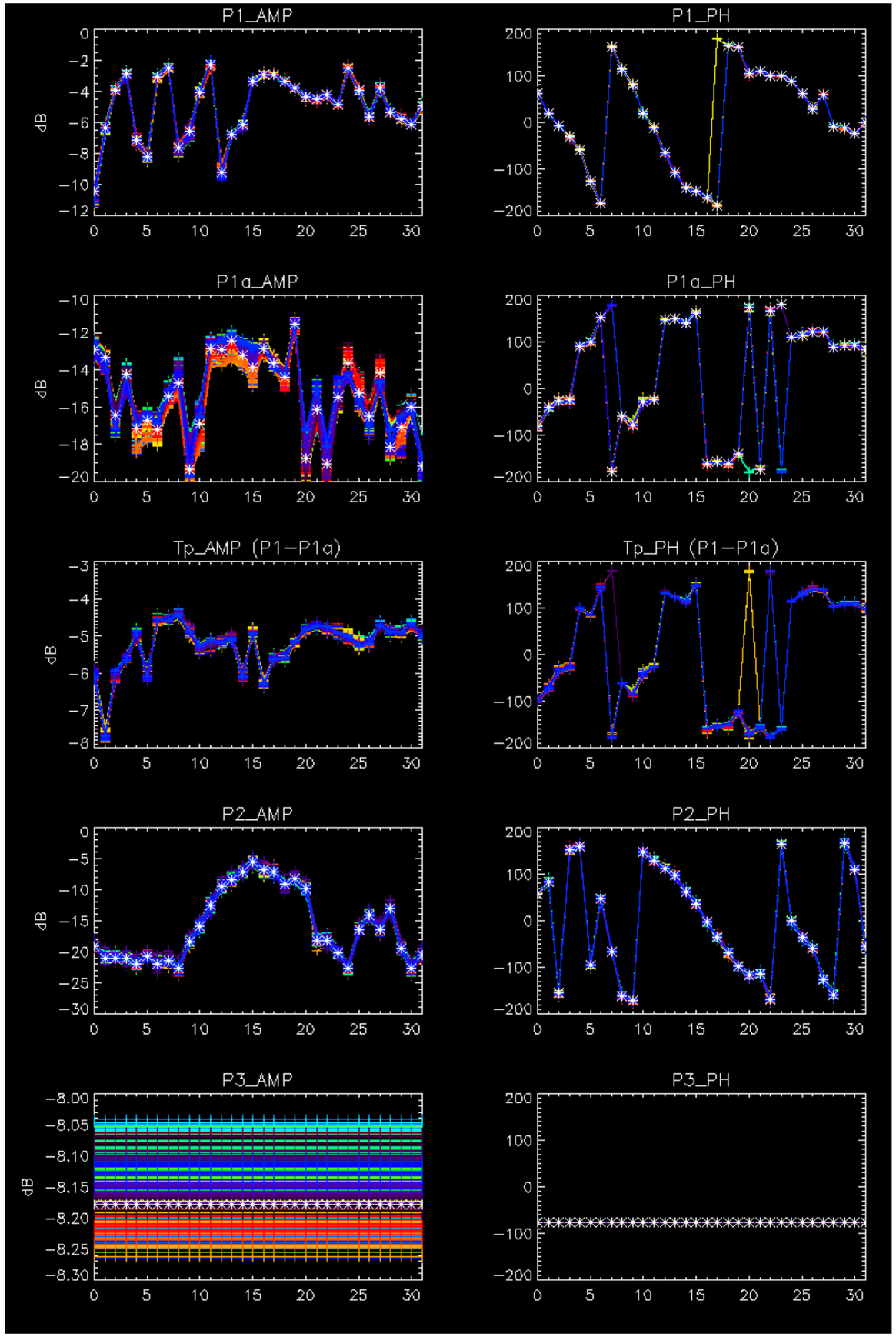

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun
25−Jun
Average P1a [dB]
−10
−15
−20
−25
−30
Average P2 [dB]
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

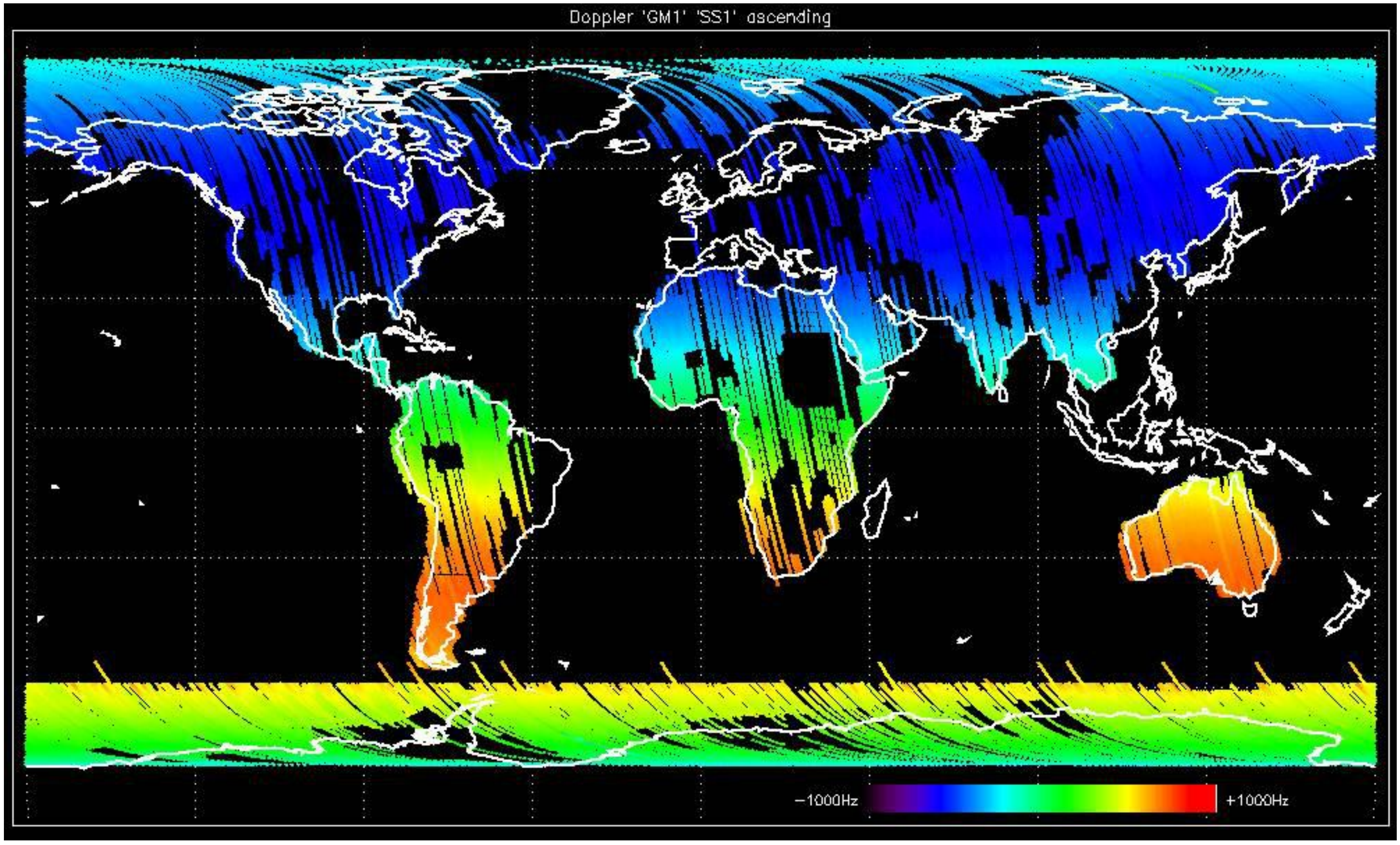
No anomalies observed.

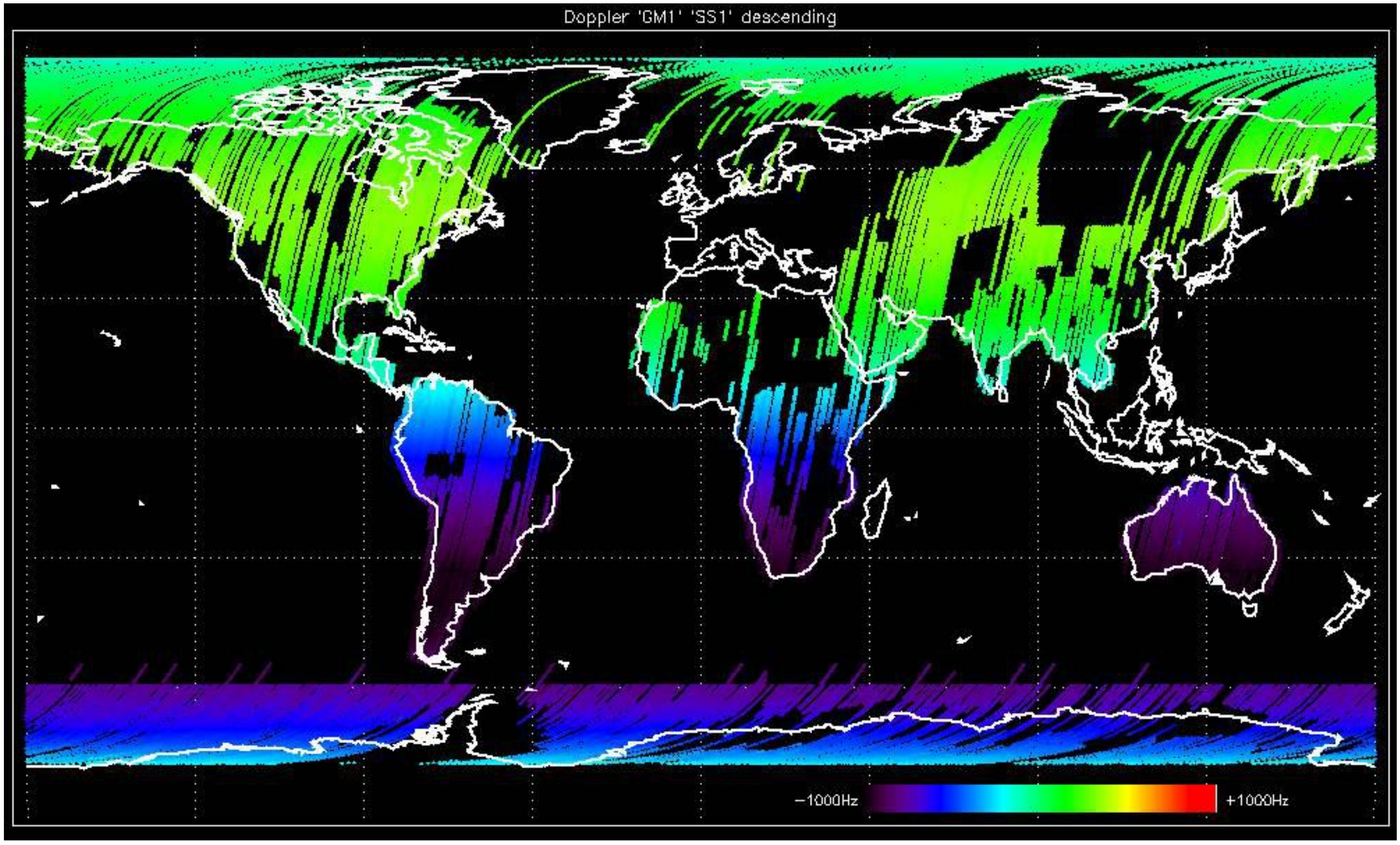

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

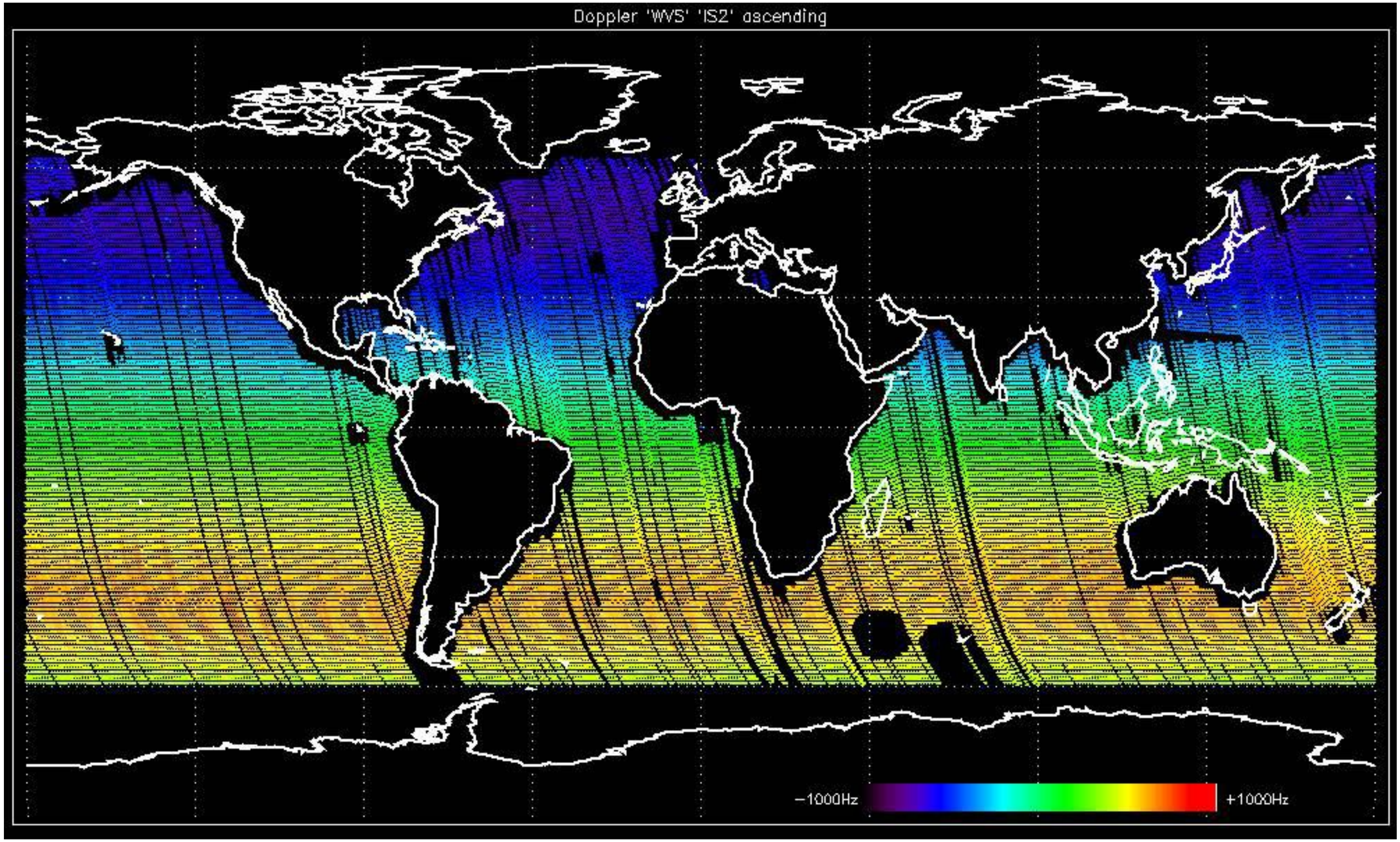

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

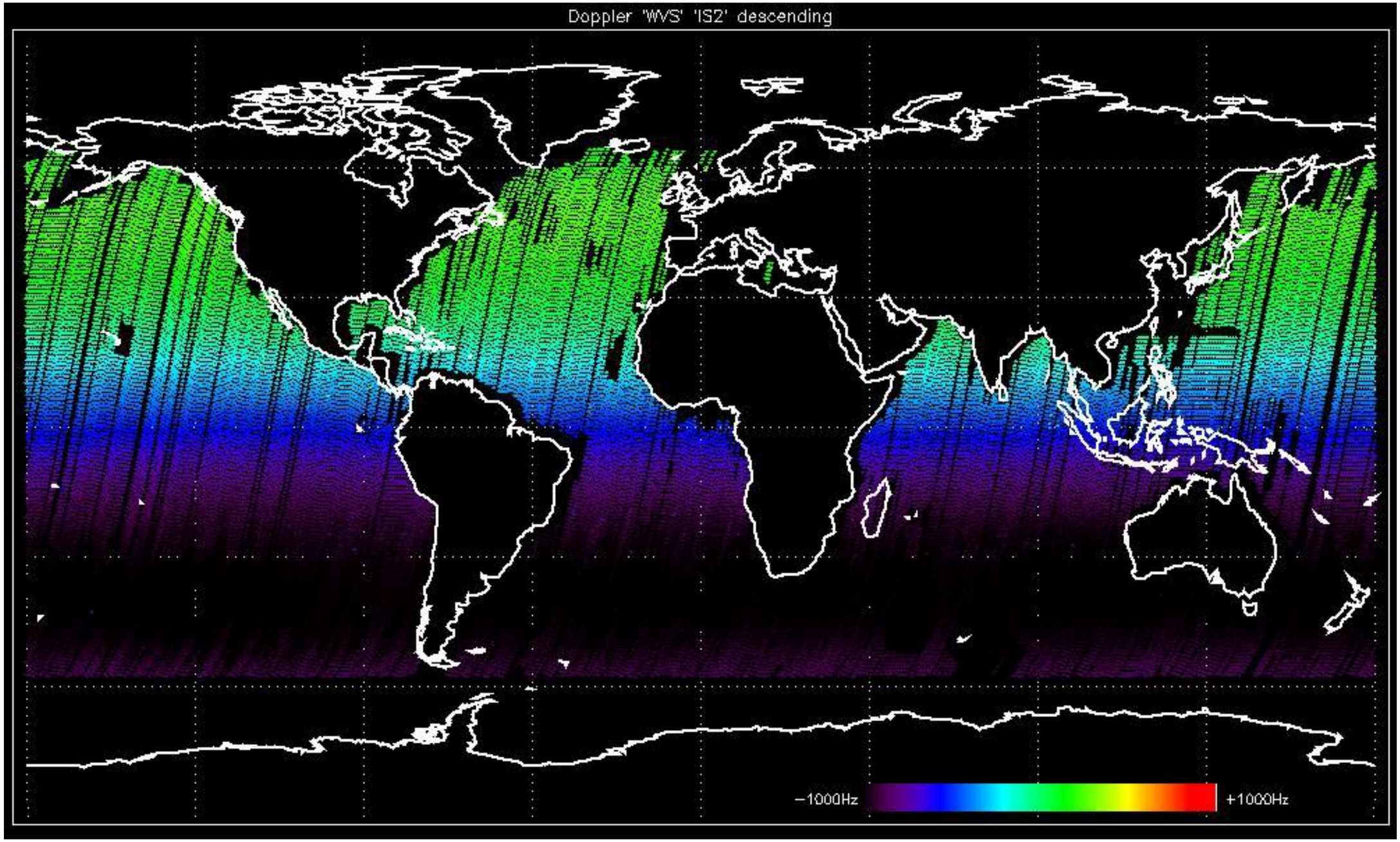
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

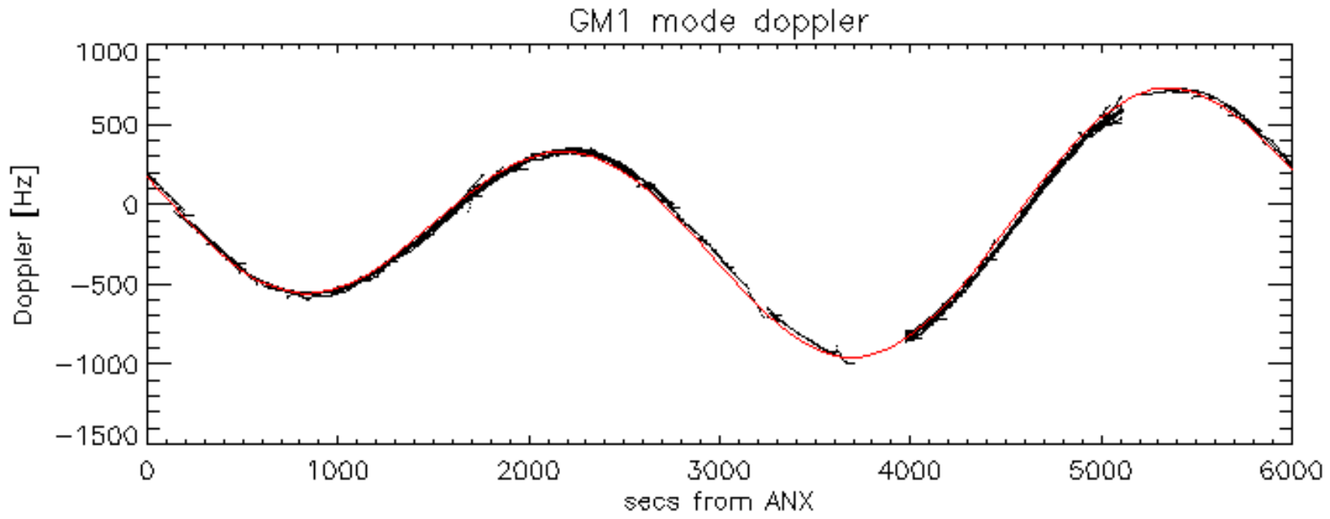
Preliminary report.The data is not yet controled

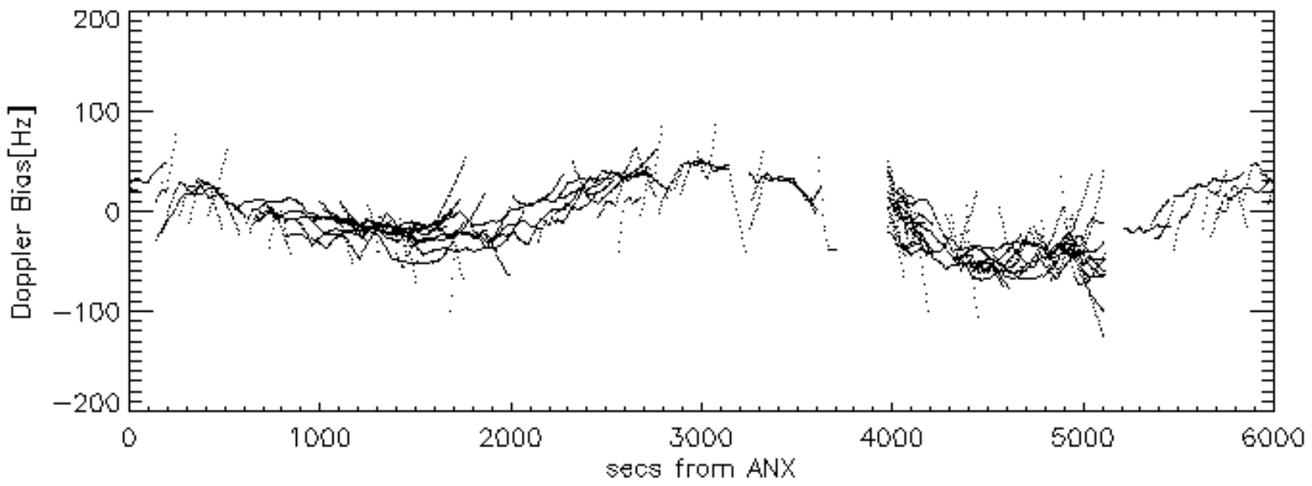

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

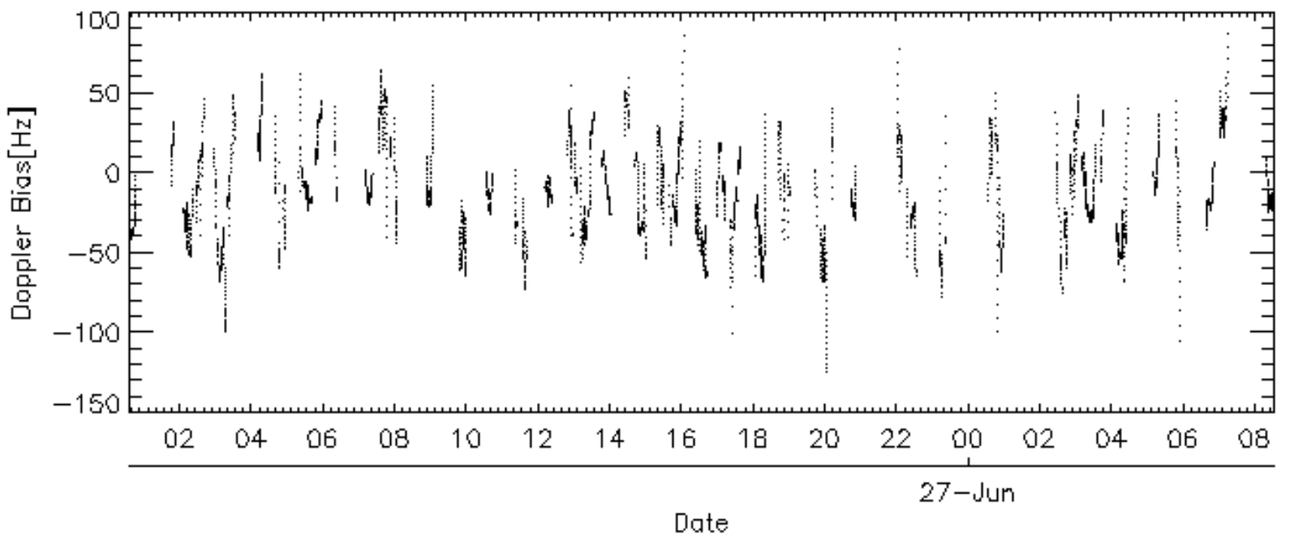

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

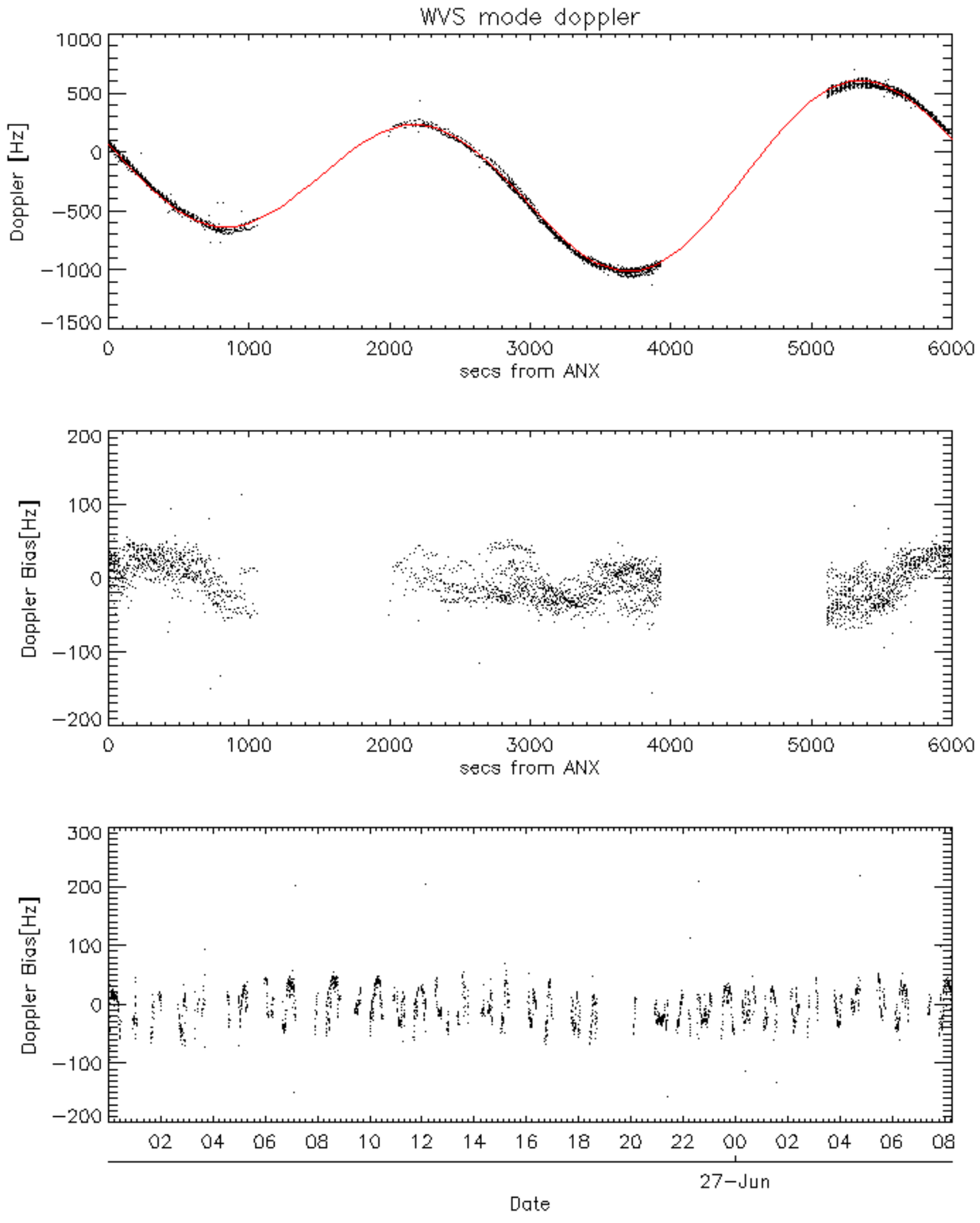

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

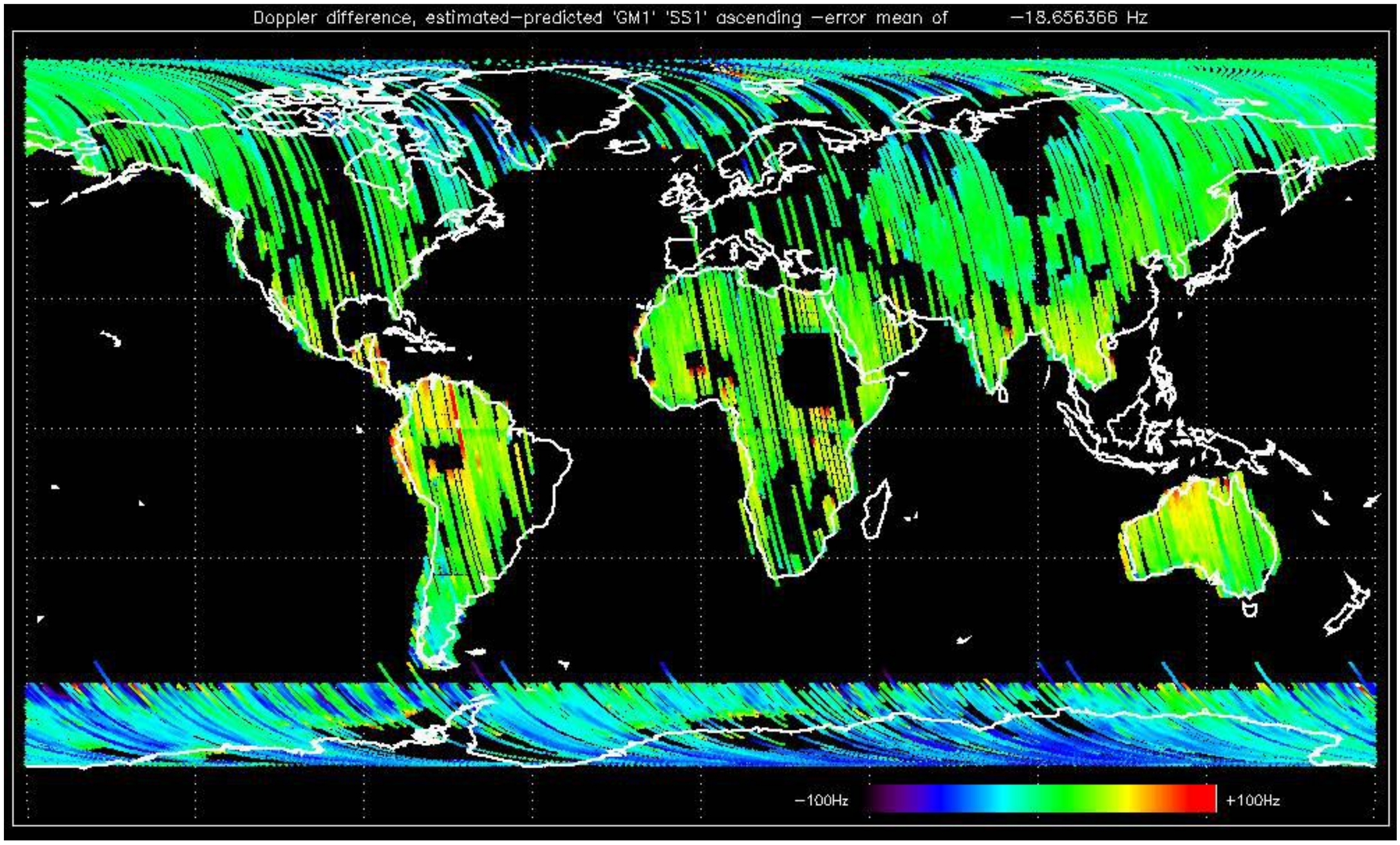

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

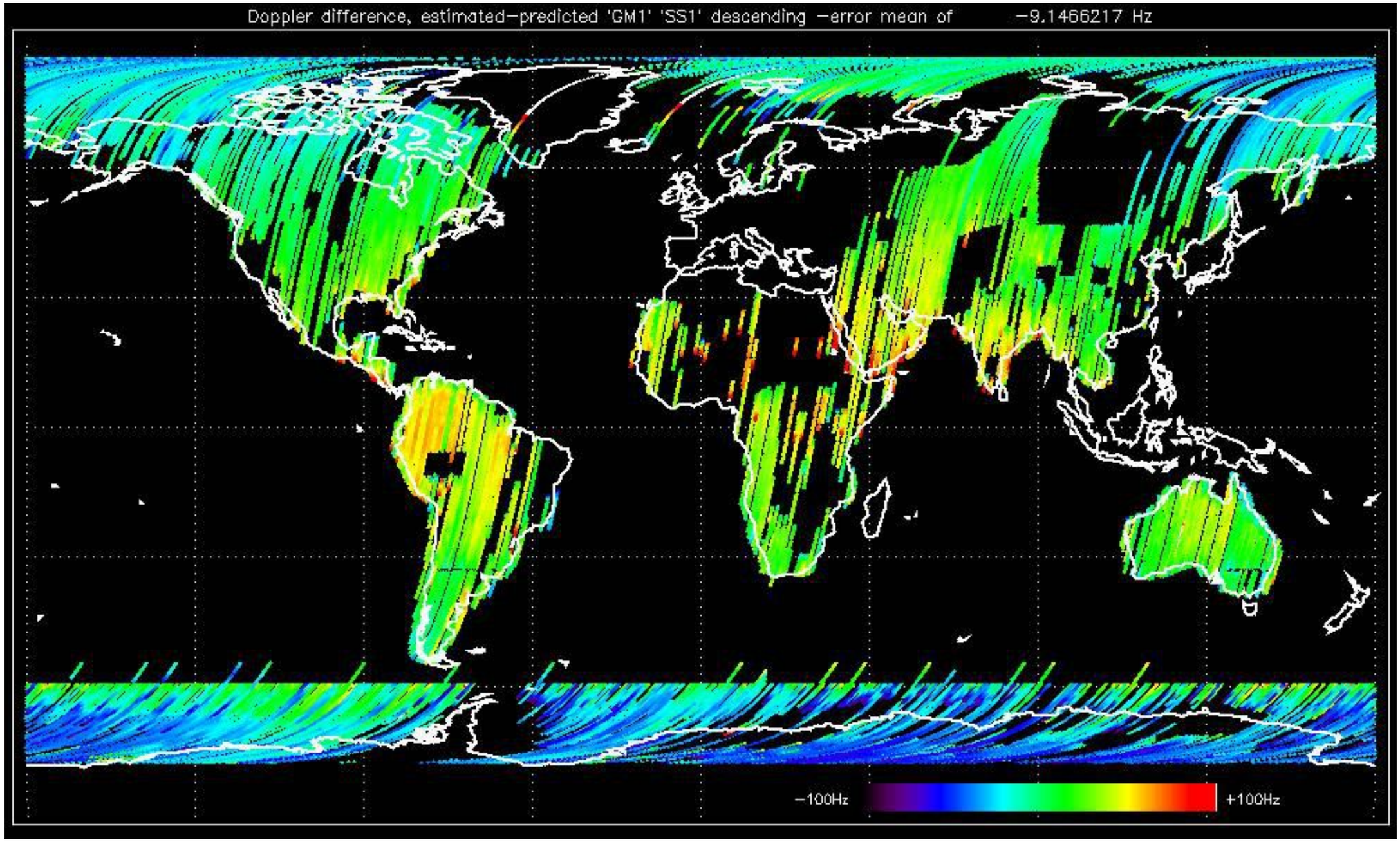

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

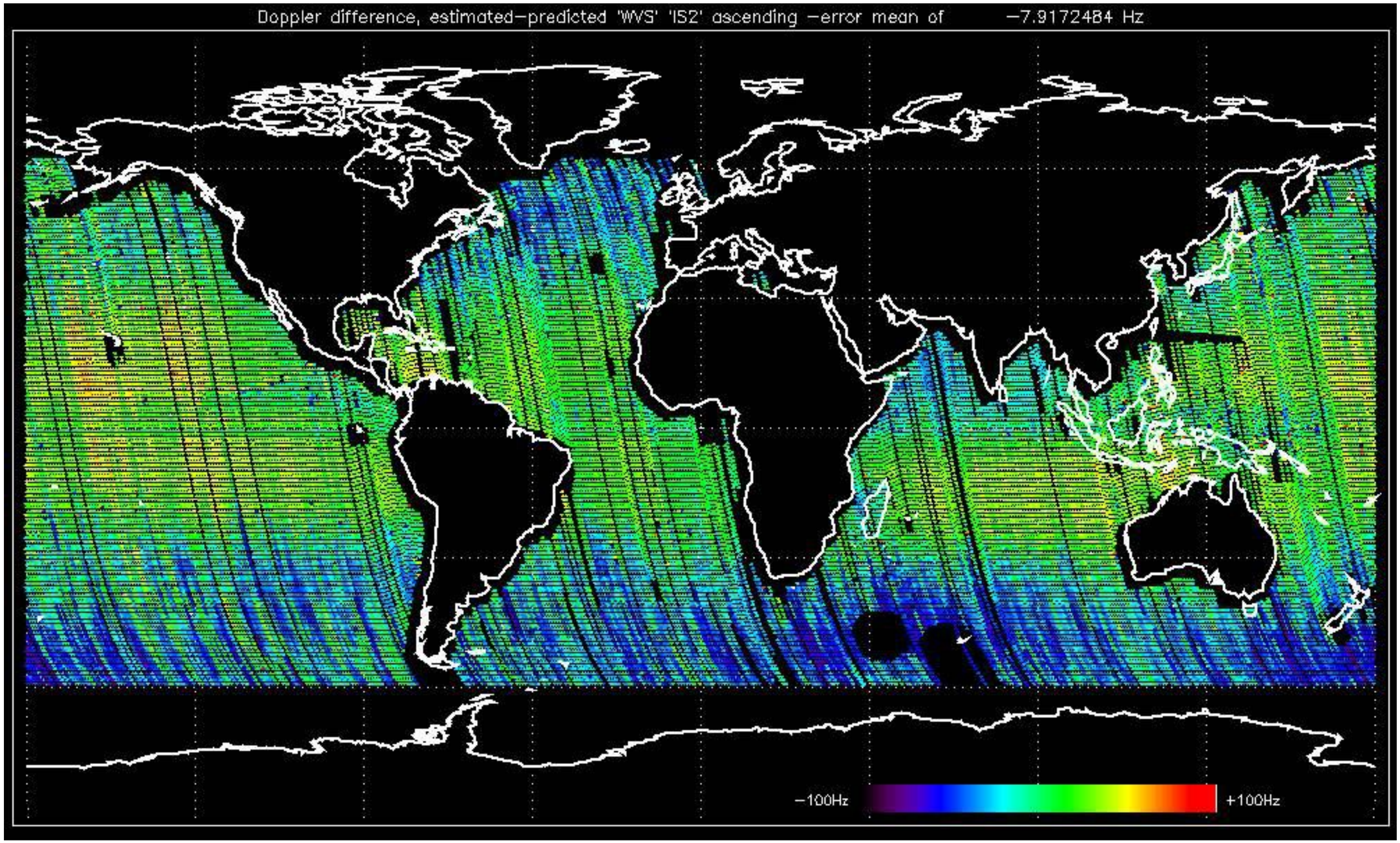

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

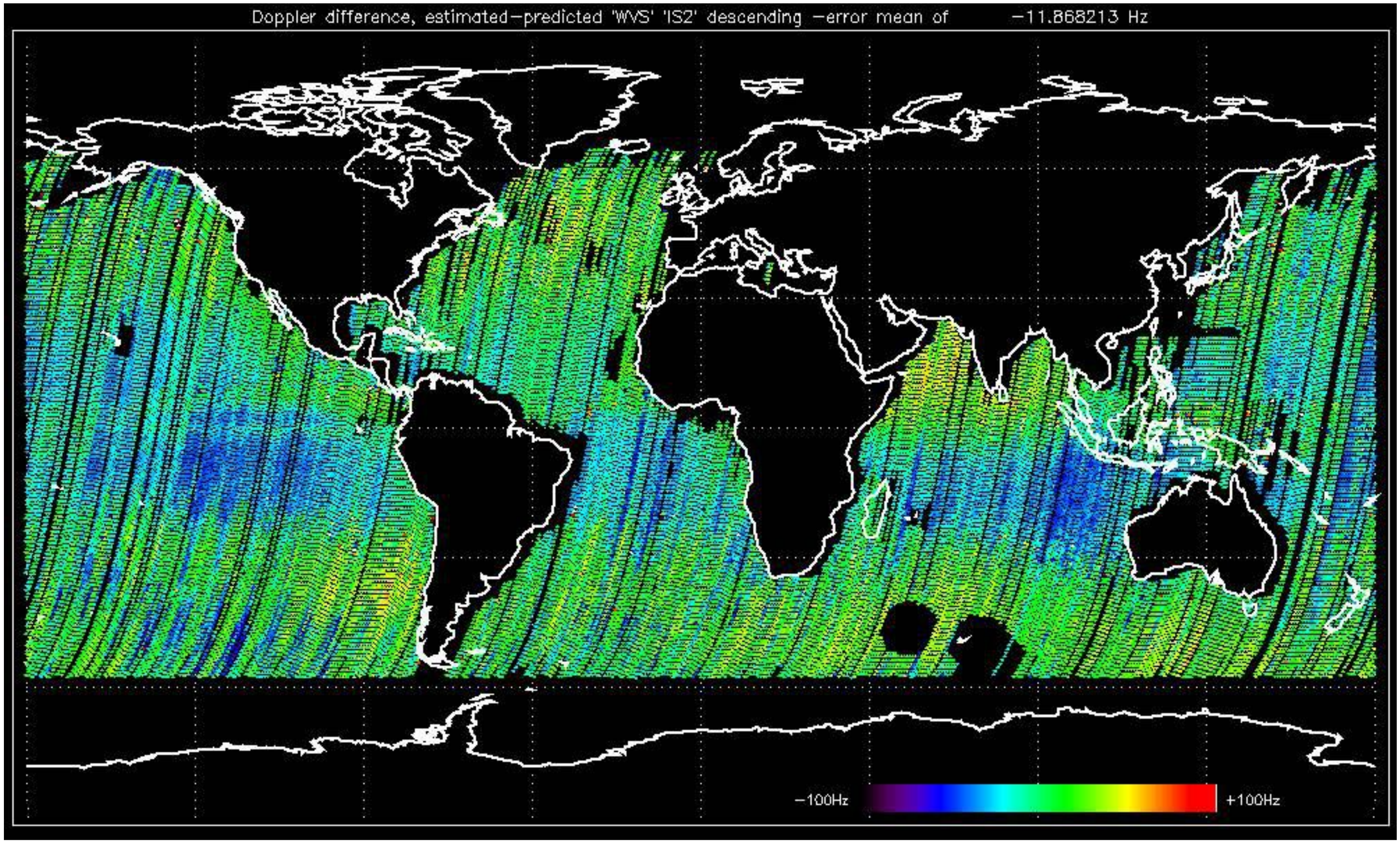

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
27−Jun
Date


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
27−Jun
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.656366 Hz
−100Hz
+100Hz

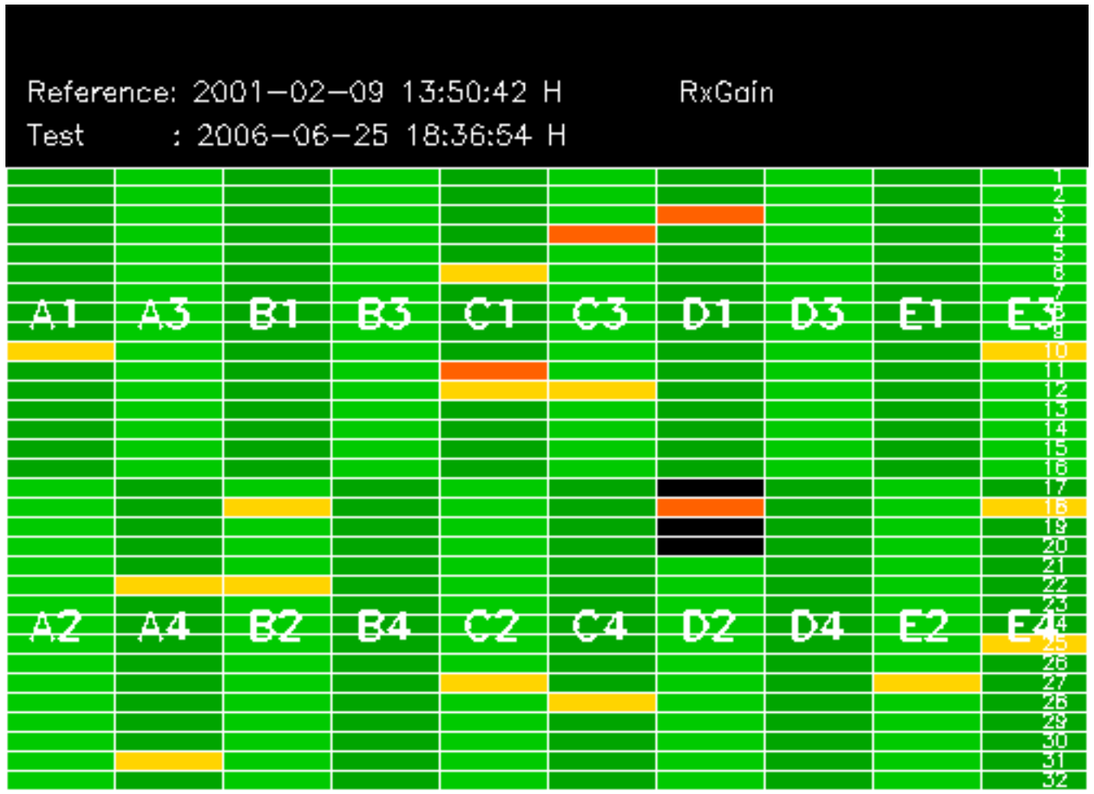

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -9.1466217 Hz
-100Hz
+100Hz

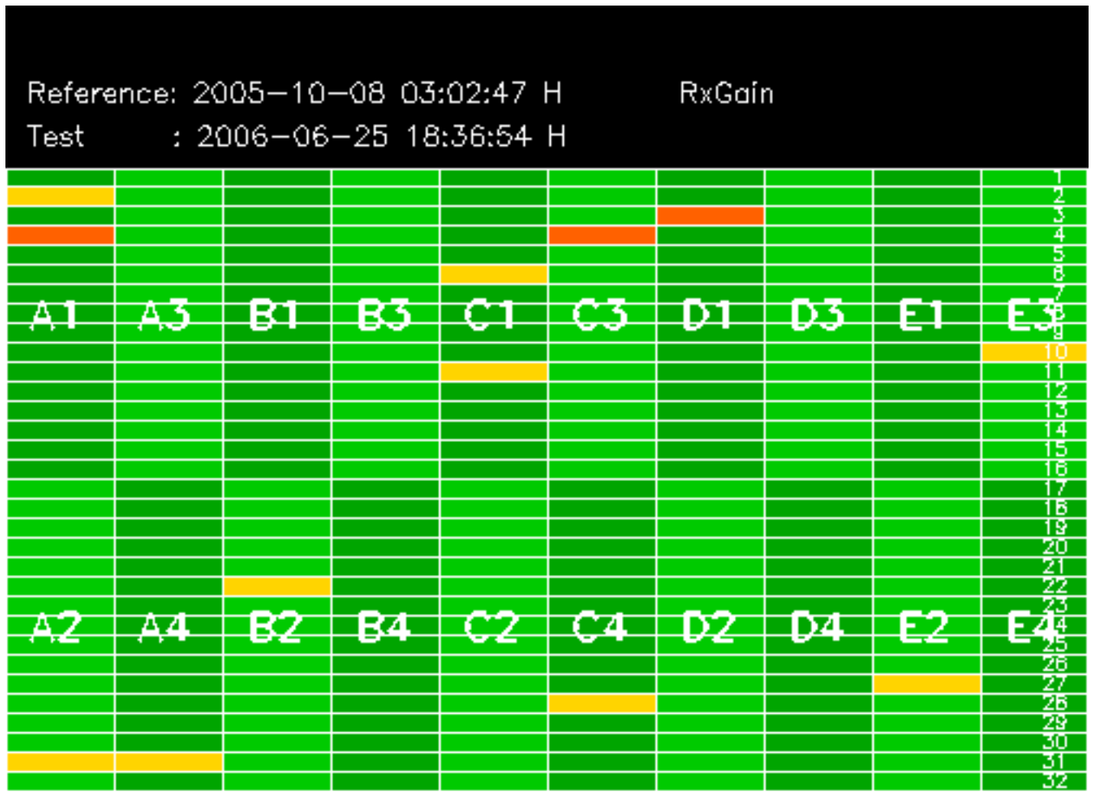

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −7.9172484 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −11.868213 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-25 18:36:54 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 : 2006-06-25 18:36:54 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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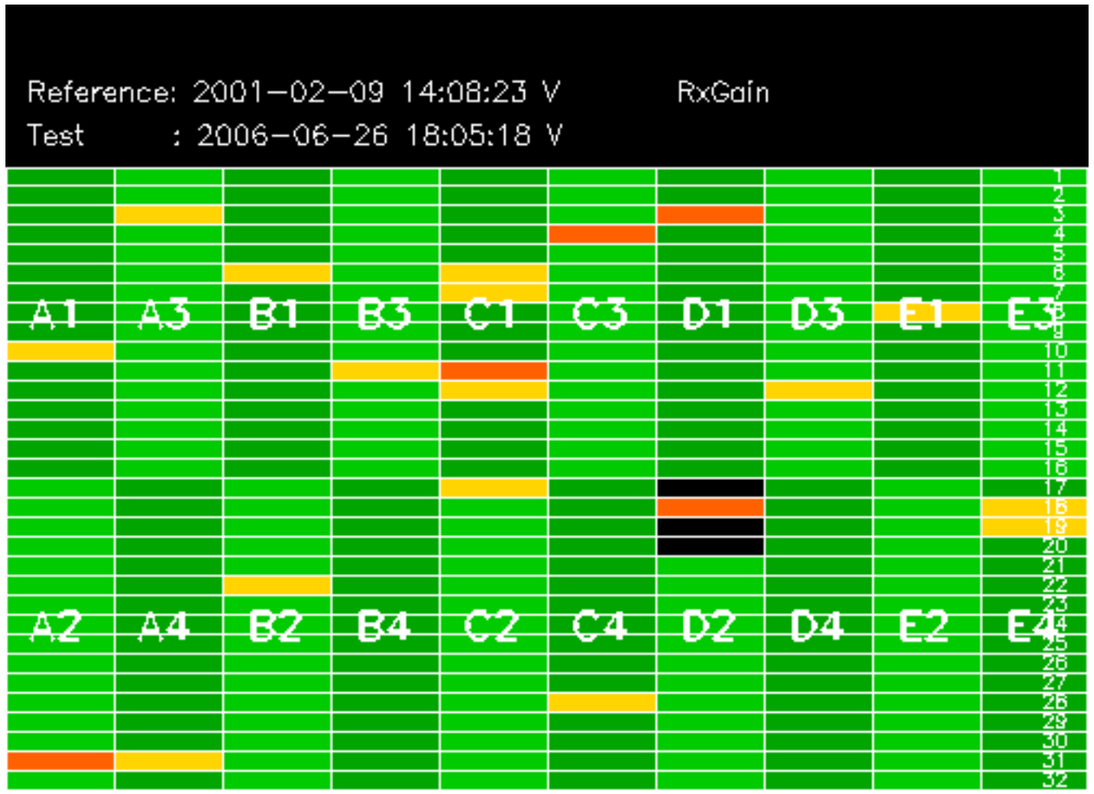
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-26 18:05:18 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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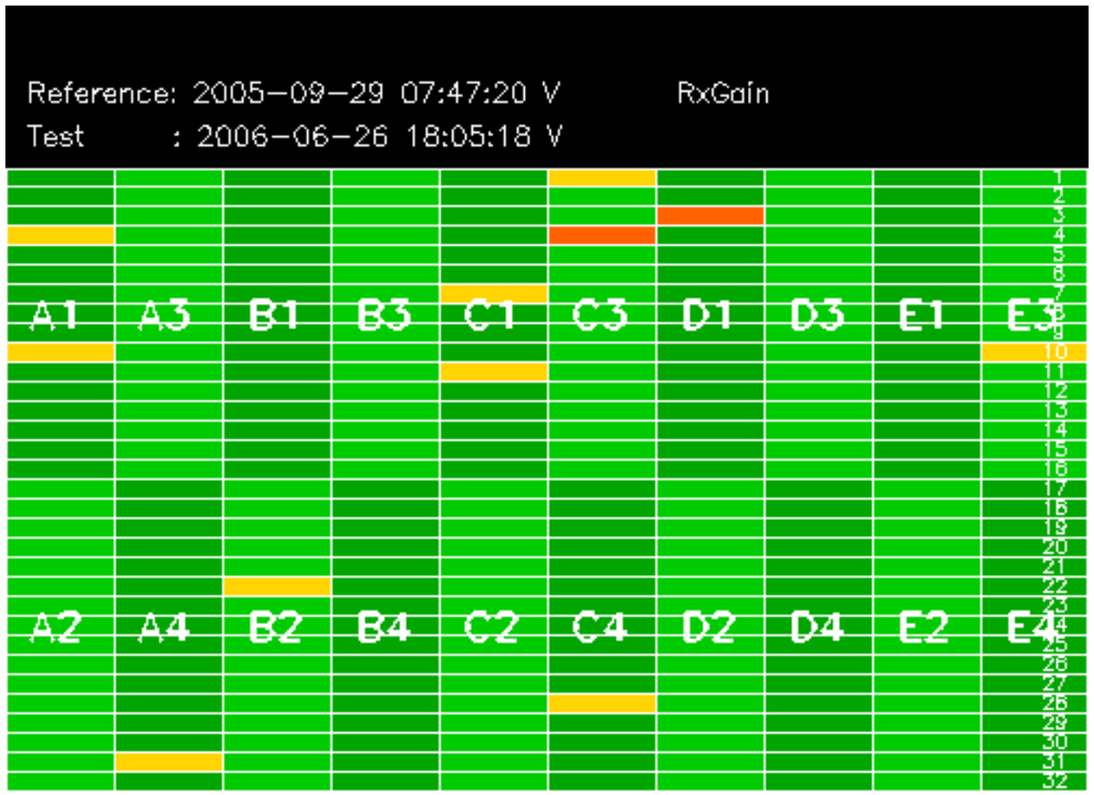
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-26 18:05:18 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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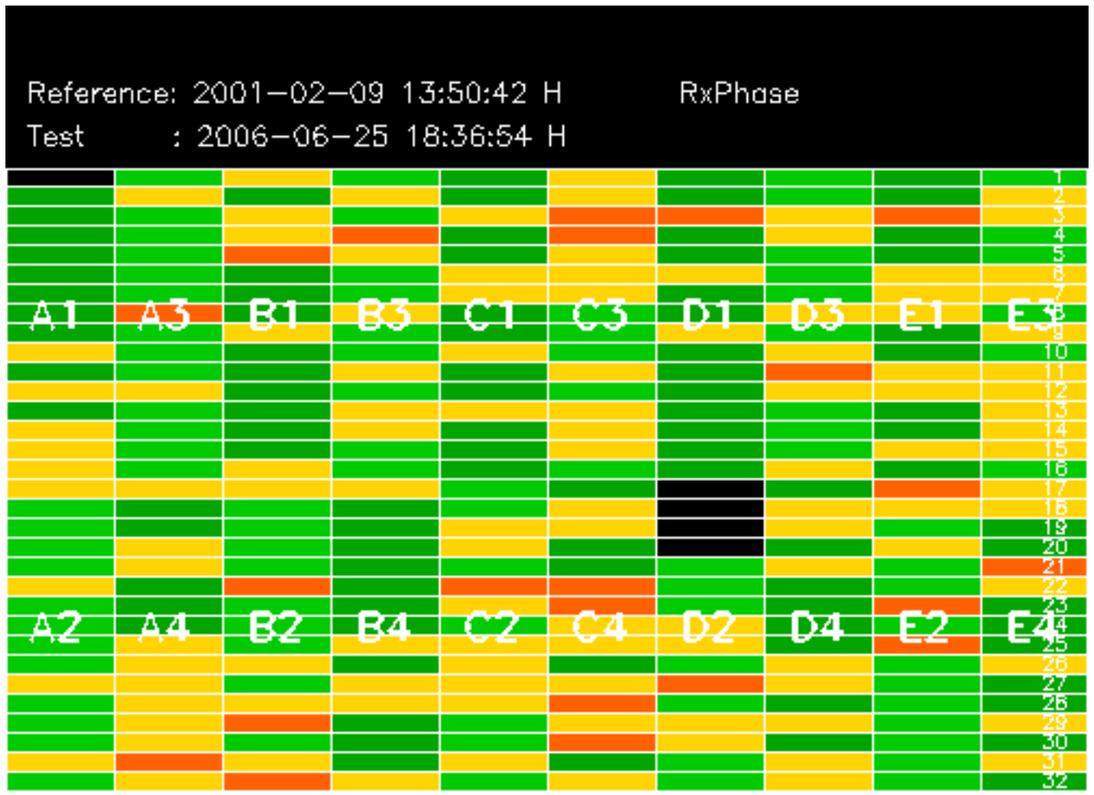
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-06-25 18:36:54 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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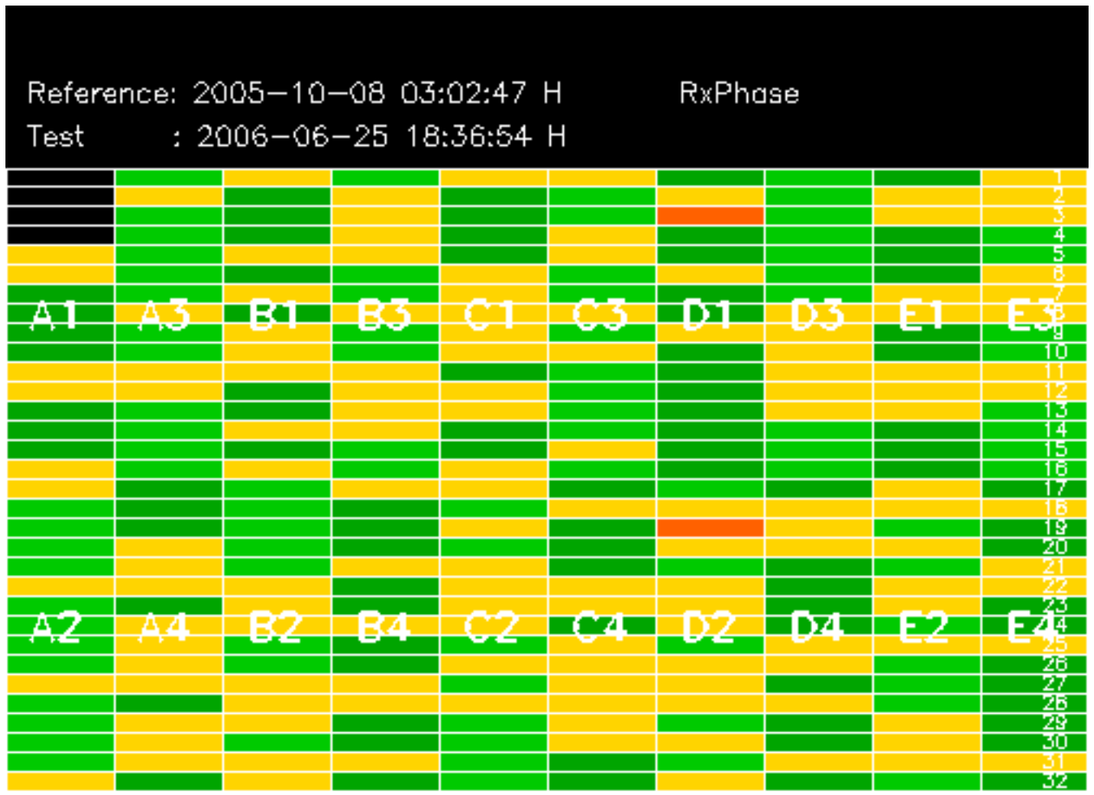
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-06-25 18:36:54 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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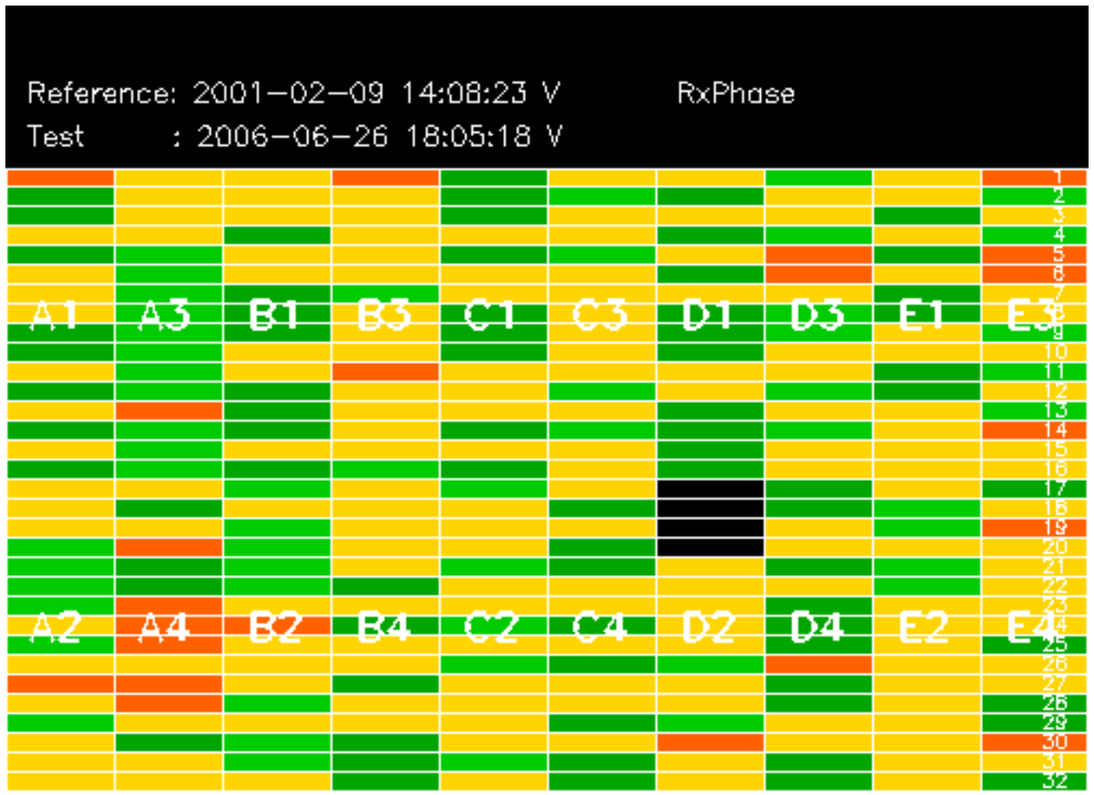
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-26 18:05:18 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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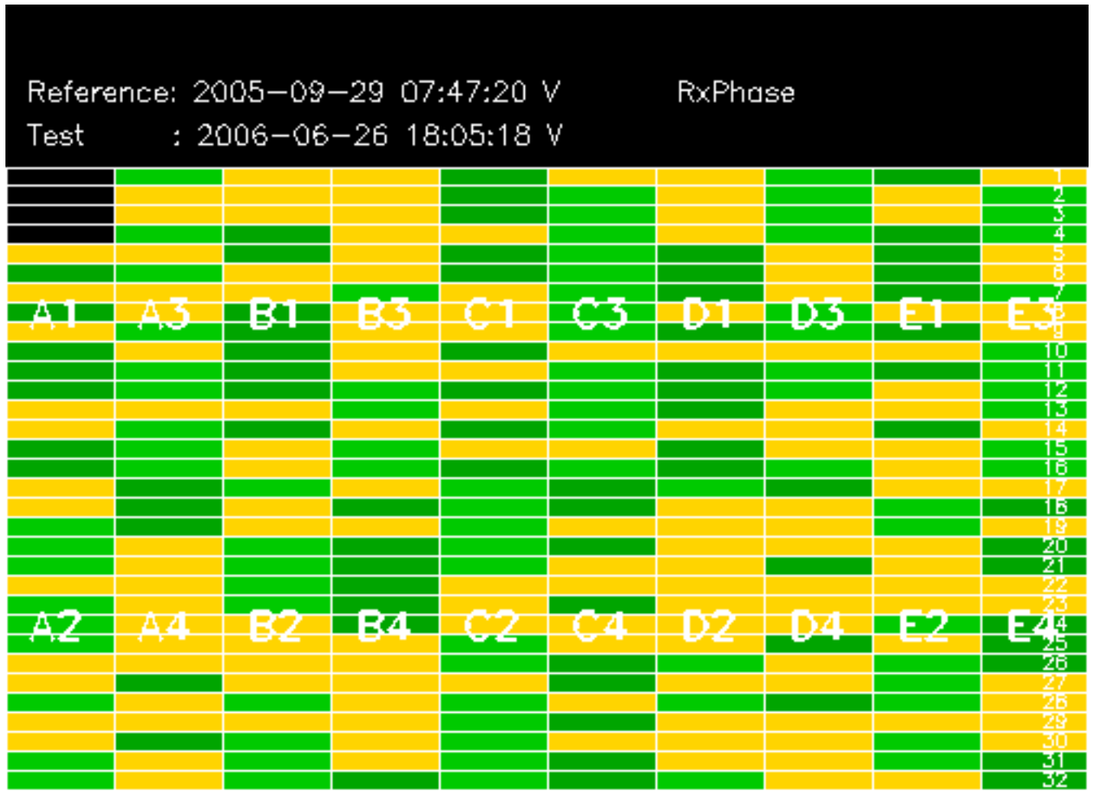
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-26 18:05:18 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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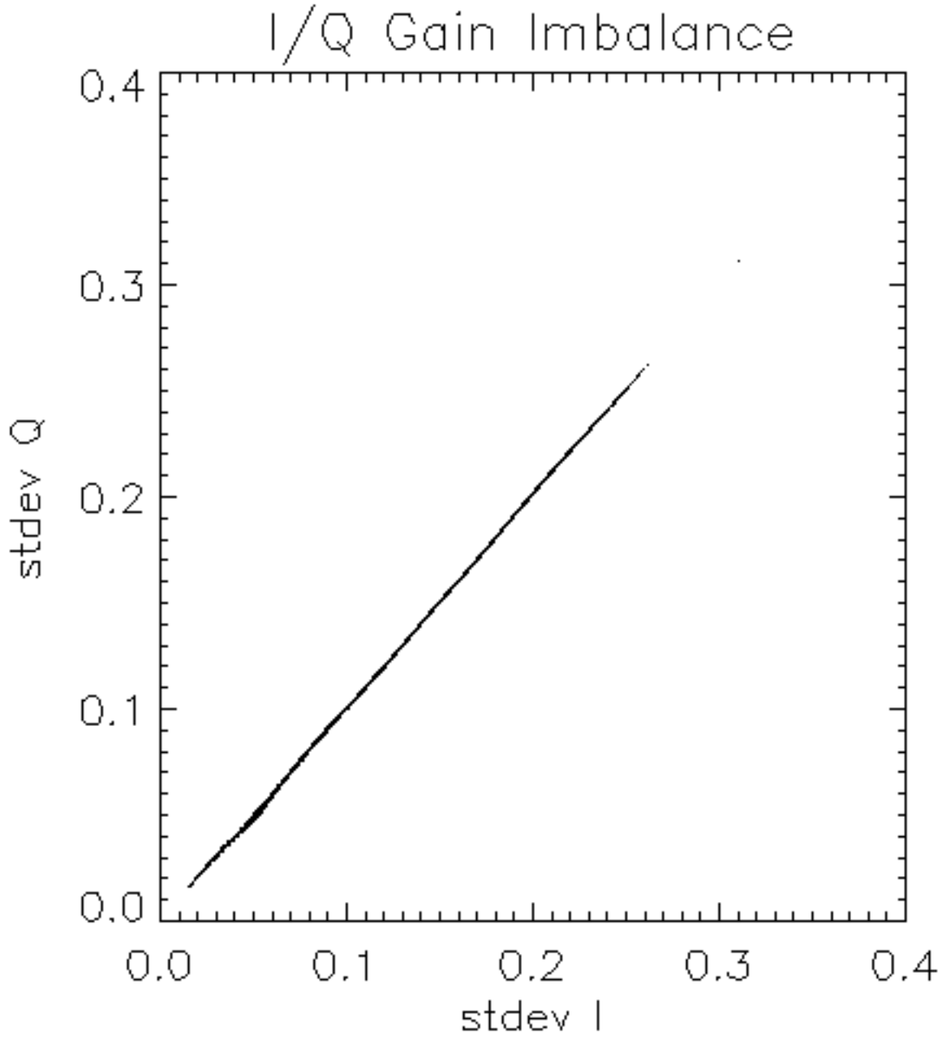
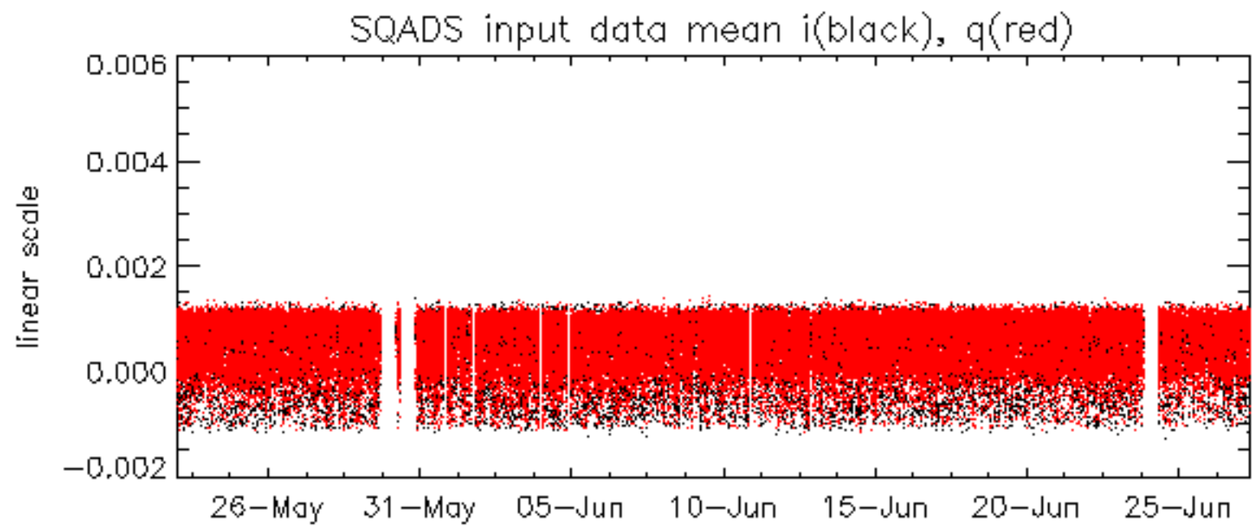
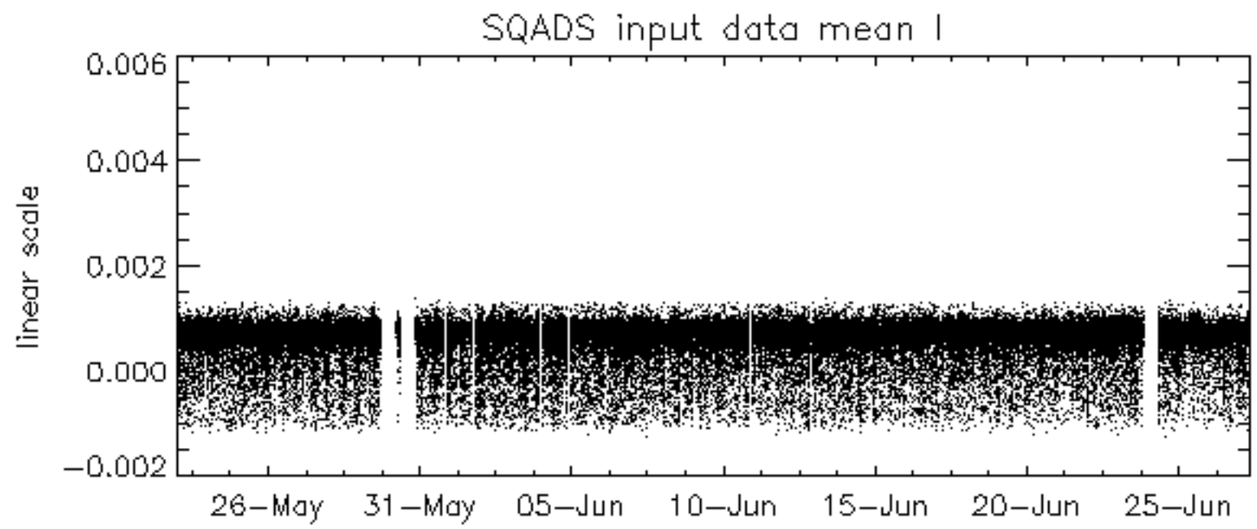
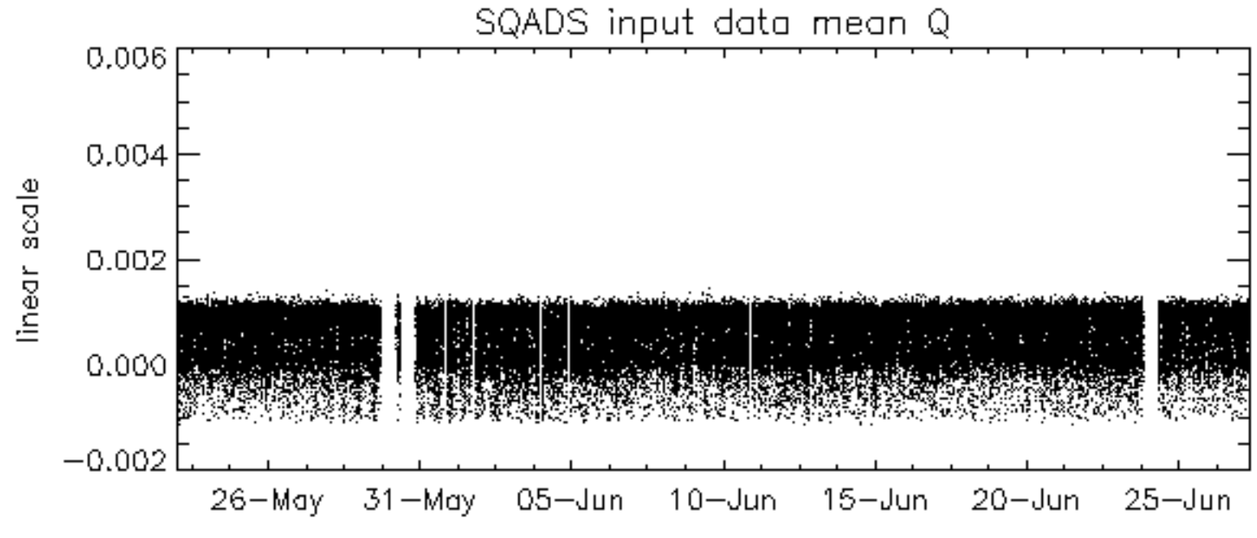
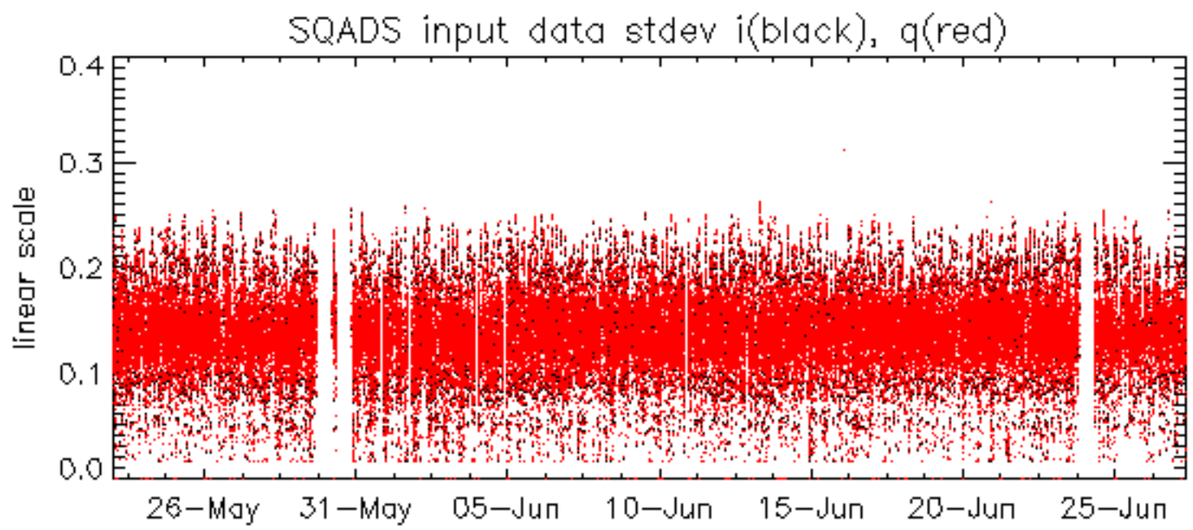
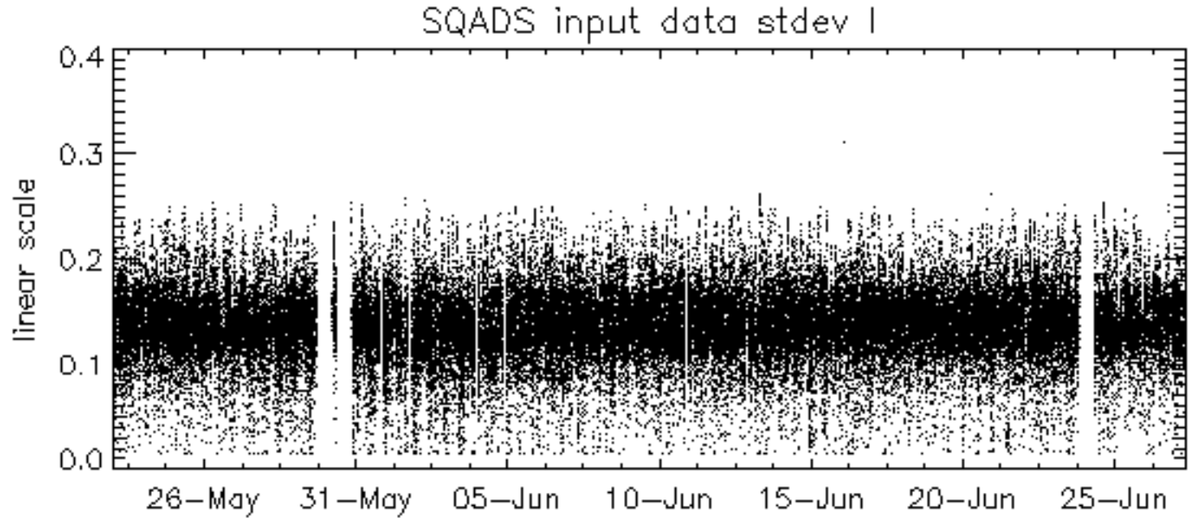

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

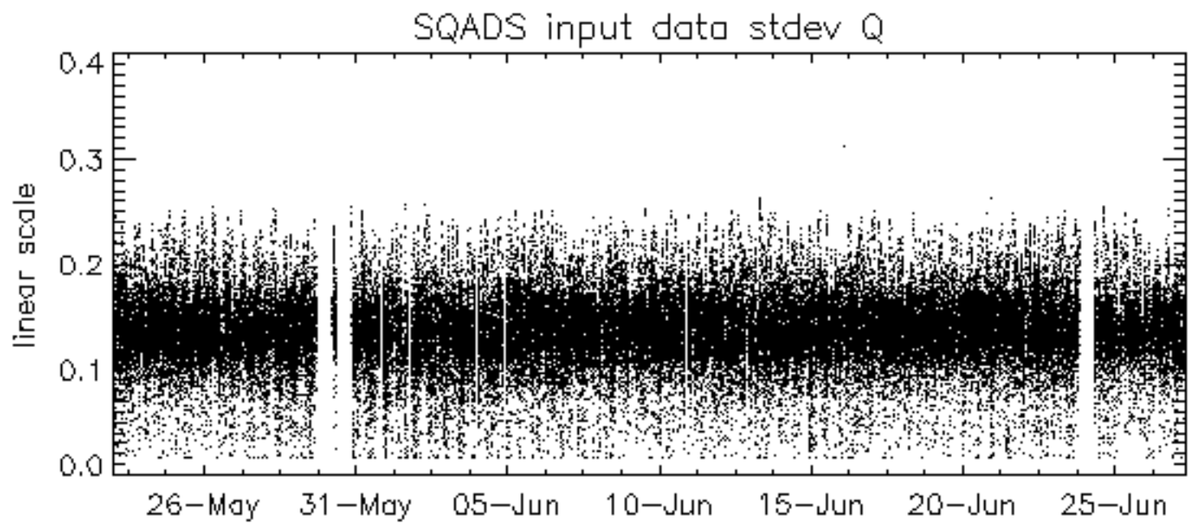

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun
25−Jun

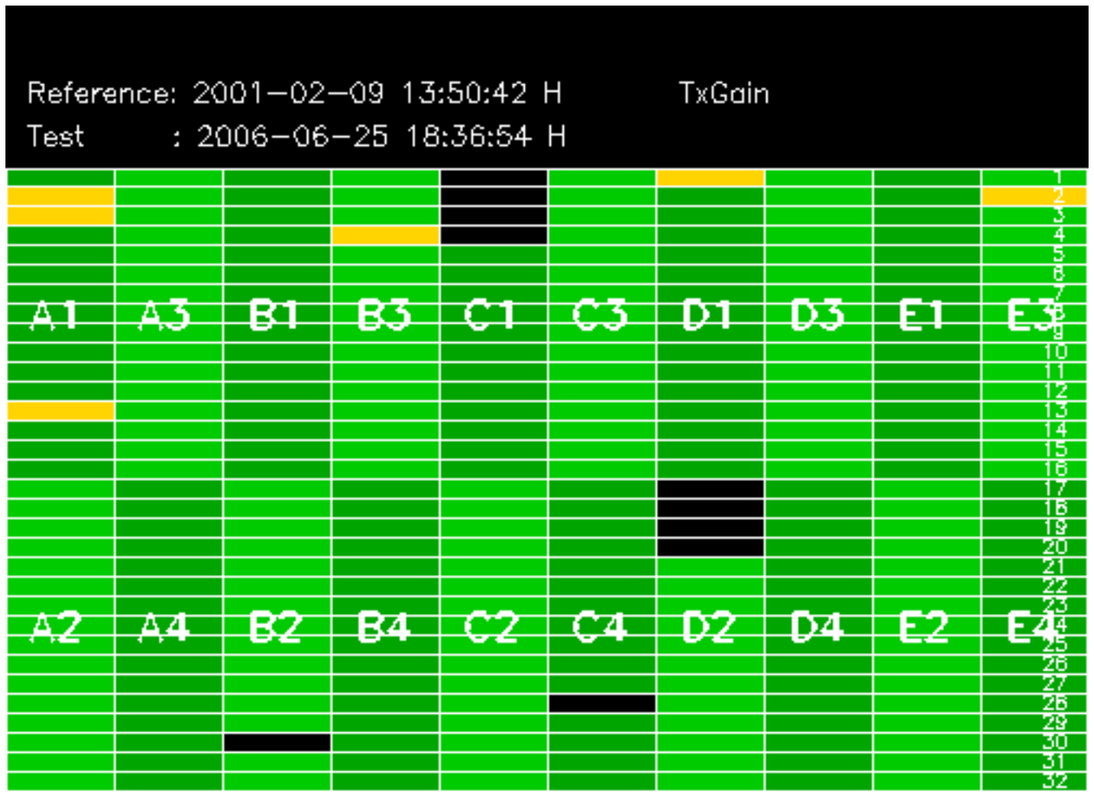

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun
25−Jun


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-25 18:36:54 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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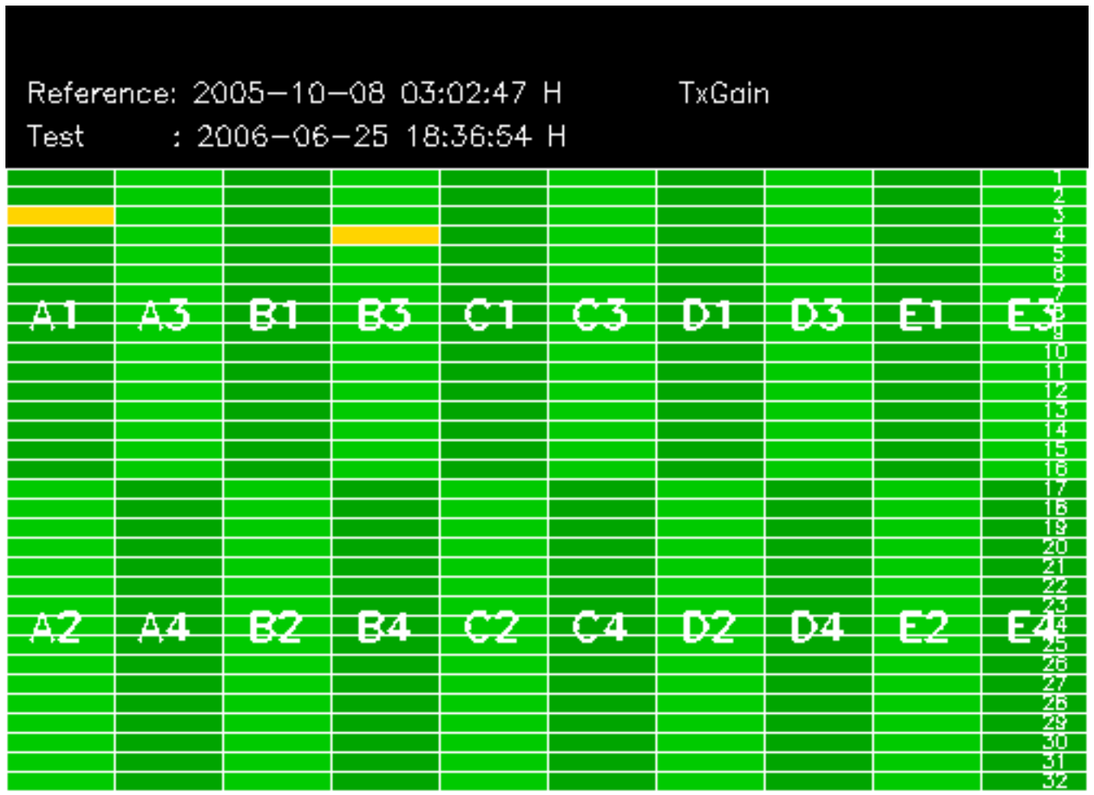
Reference: 2005-10-08 03:02:47 H
Test : 2006-06-25 18:36:54 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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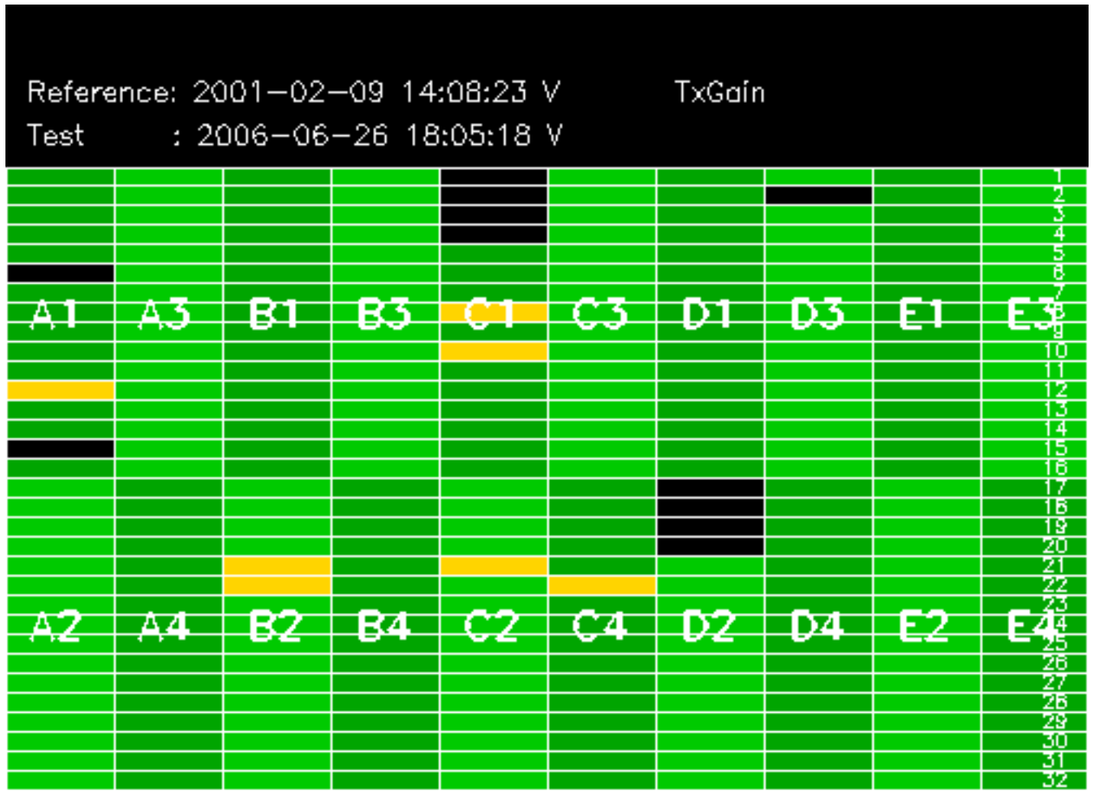
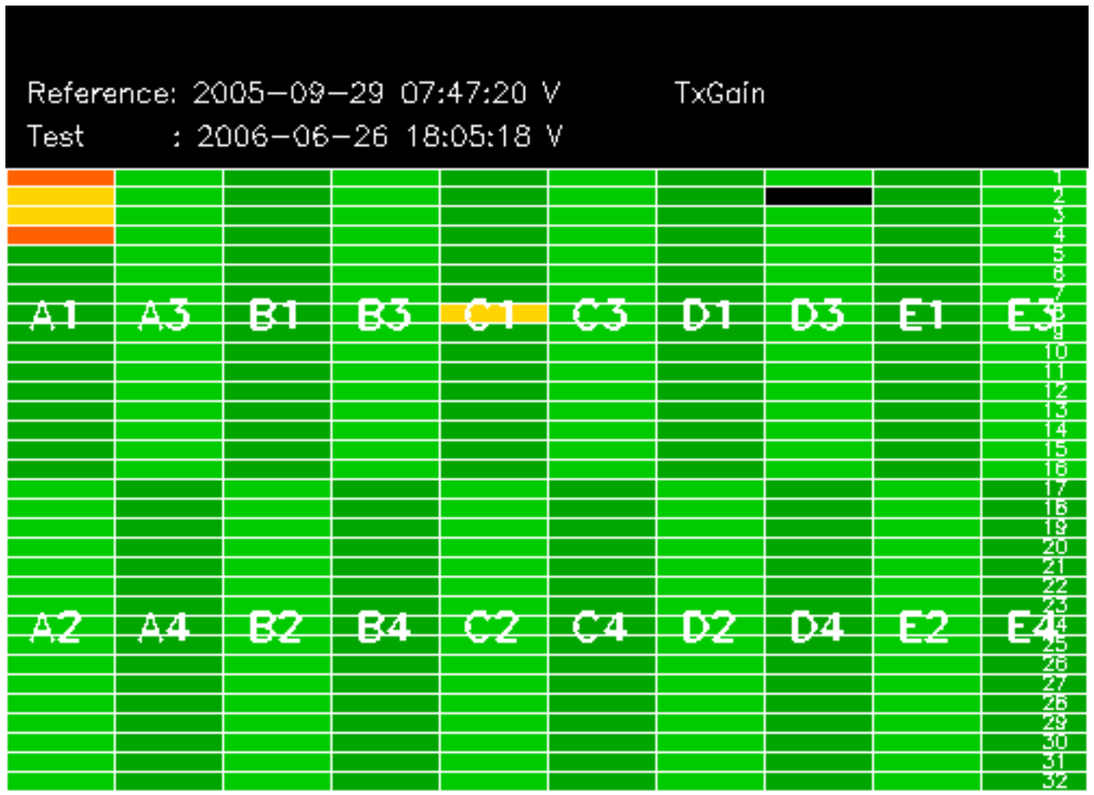

Reference: 2001-02-09 14:08:23 V
Test : 2006-06-26 18:05:18 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-06-26 18:05:18 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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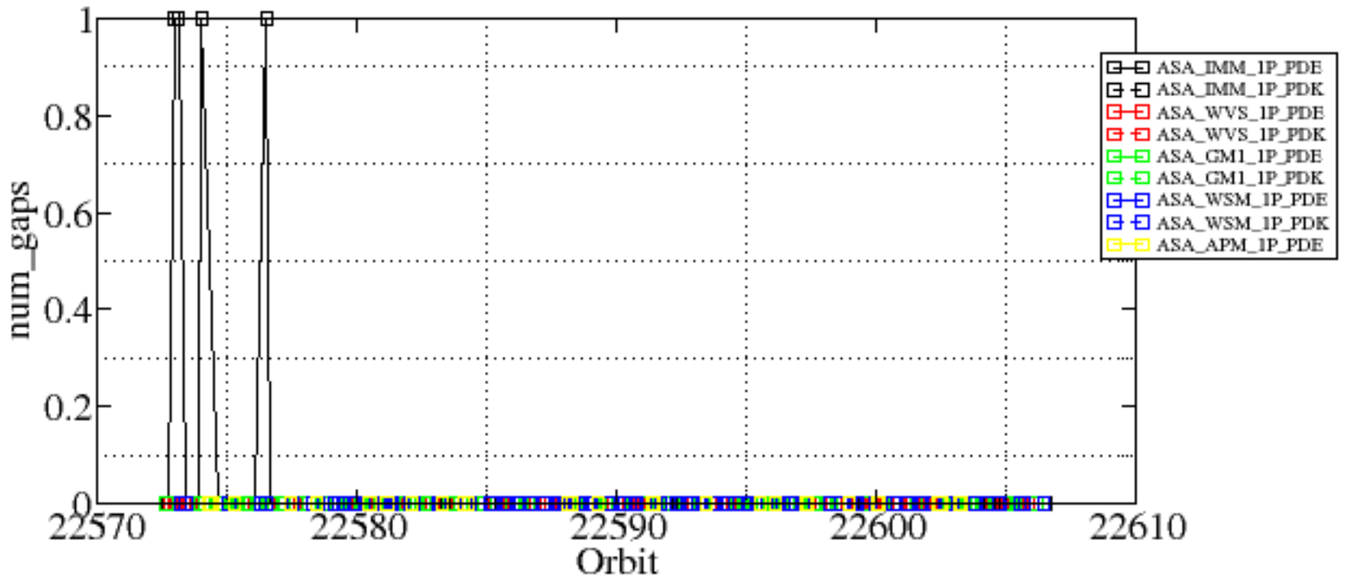
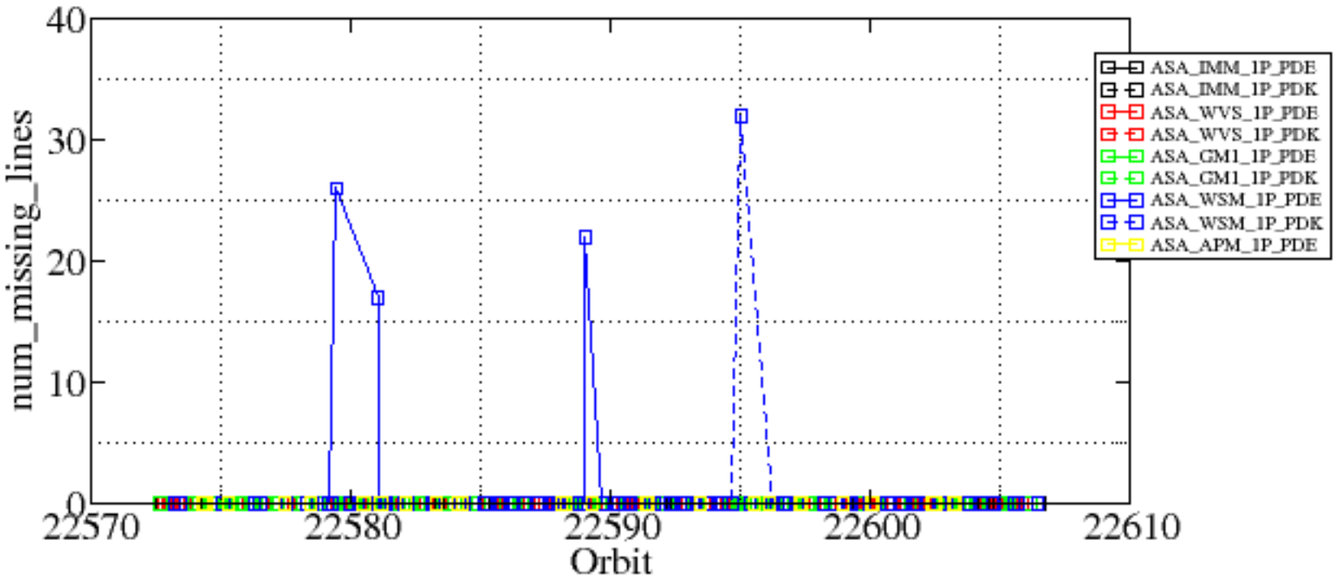
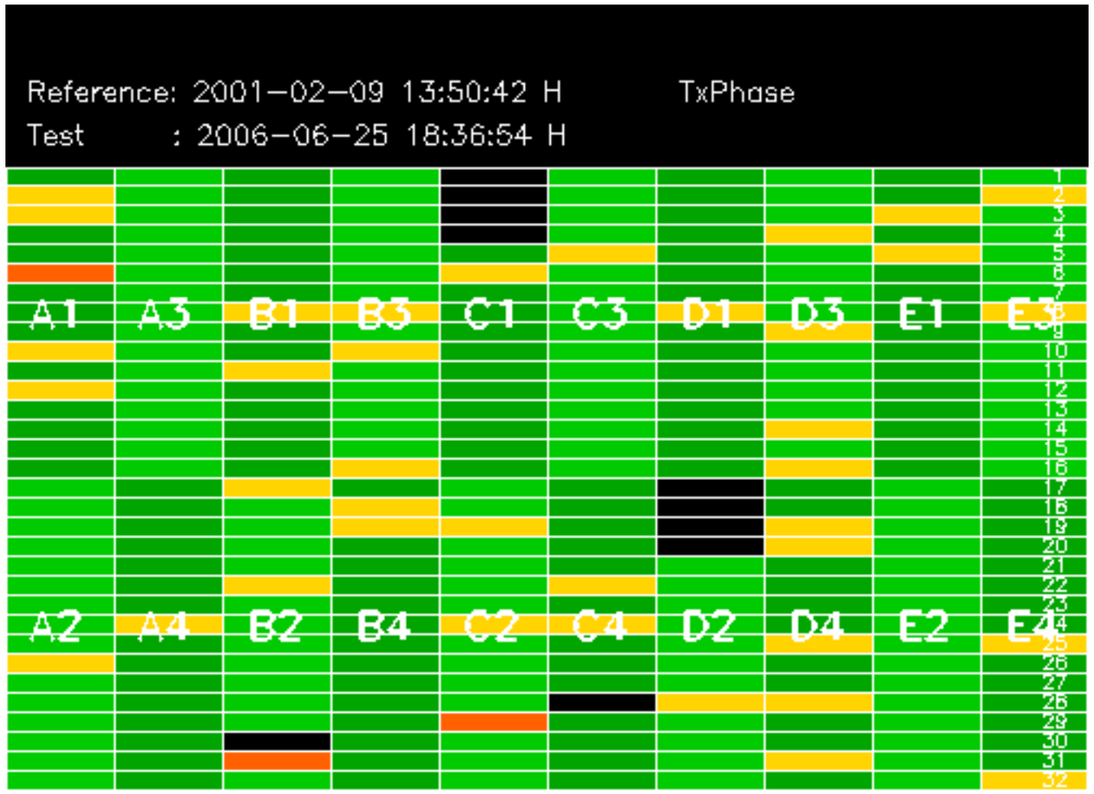
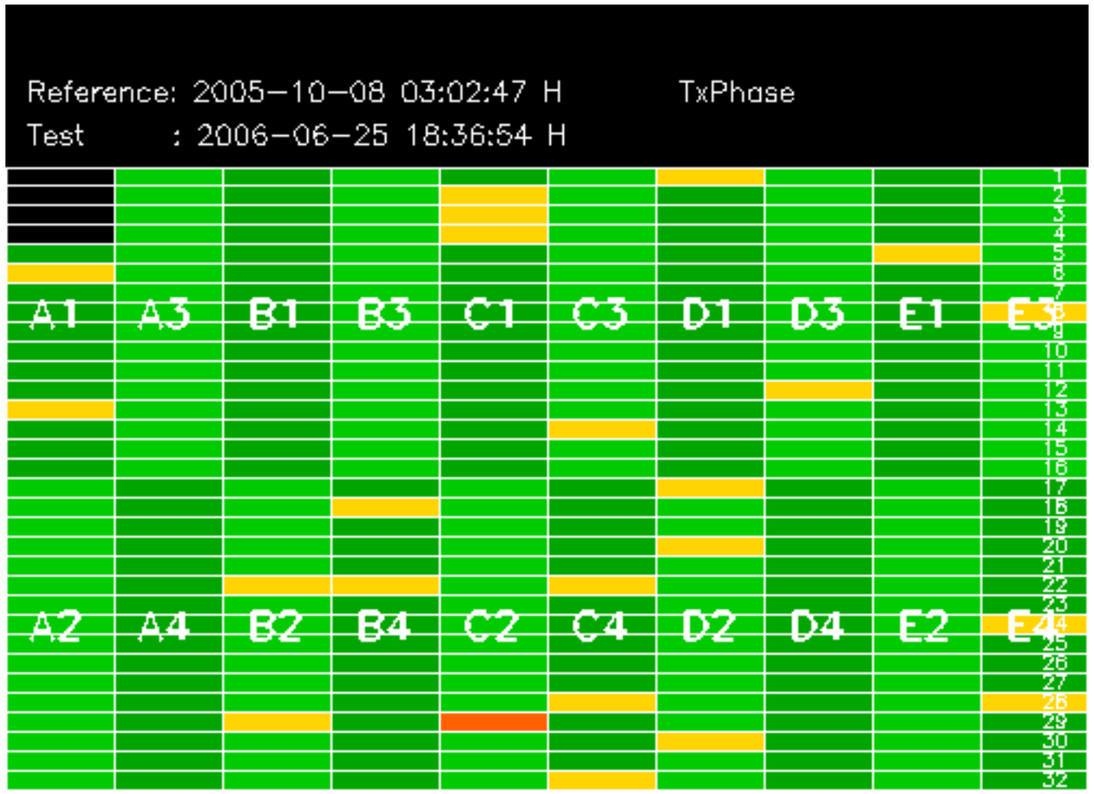
Summary of analysis for the last 3 days 2006062[567]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060625_003958_000001552048_00474_22572_8683.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060625_005615_000000362048_00475_22573_8684.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060625_022556_000000362048_00476_22574_8697.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060625_063915_000001102048_00478_22576_8747.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060625_113214_000001292048_00481_22579_5331.N1 </td> <td>0 </td> <td>26 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060625_141258_000000912048_00483_22581_5337.N1 </td> <td>0 </td> <td>17 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060626_033514_000000862048_00491_22589_5429.N1 </td> <td>0 </td> <td>22 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20060626_134018_000003002048_00497_22595_8394.N1 </td> <td>0 </td> <td>32 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
22570
22580
22590
22600
22610
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
40
30
20
10
0
22570
22580
22590
22600
22610
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
TxPhase
Test : 2006-06-25 18:36:54 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
TxPhase
Test : 2006-06-25 18:36:54 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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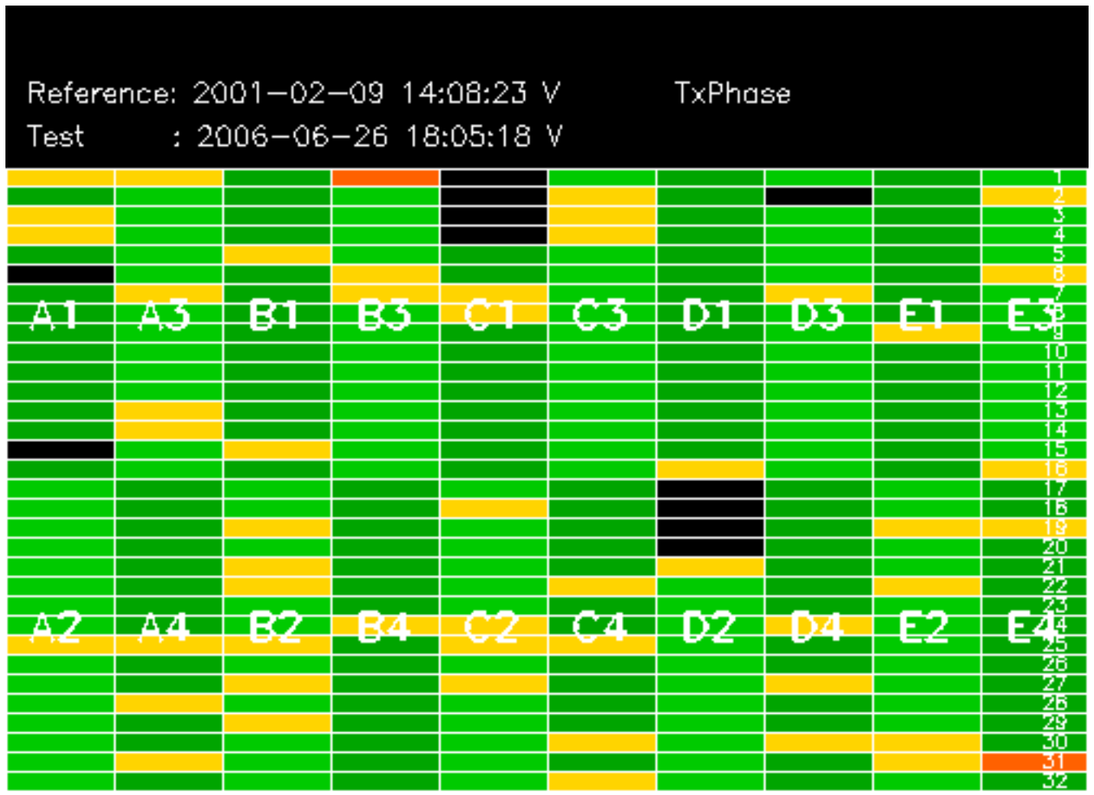
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-26 18:05:18 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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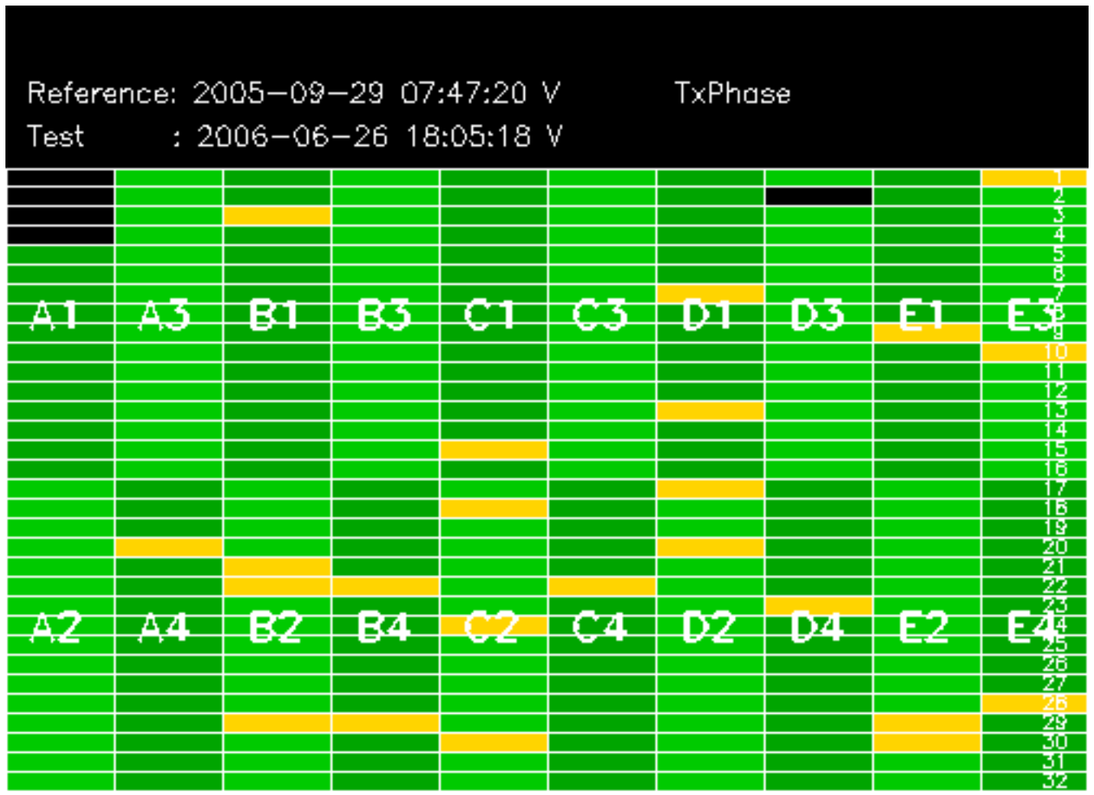
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-26 18:05:18 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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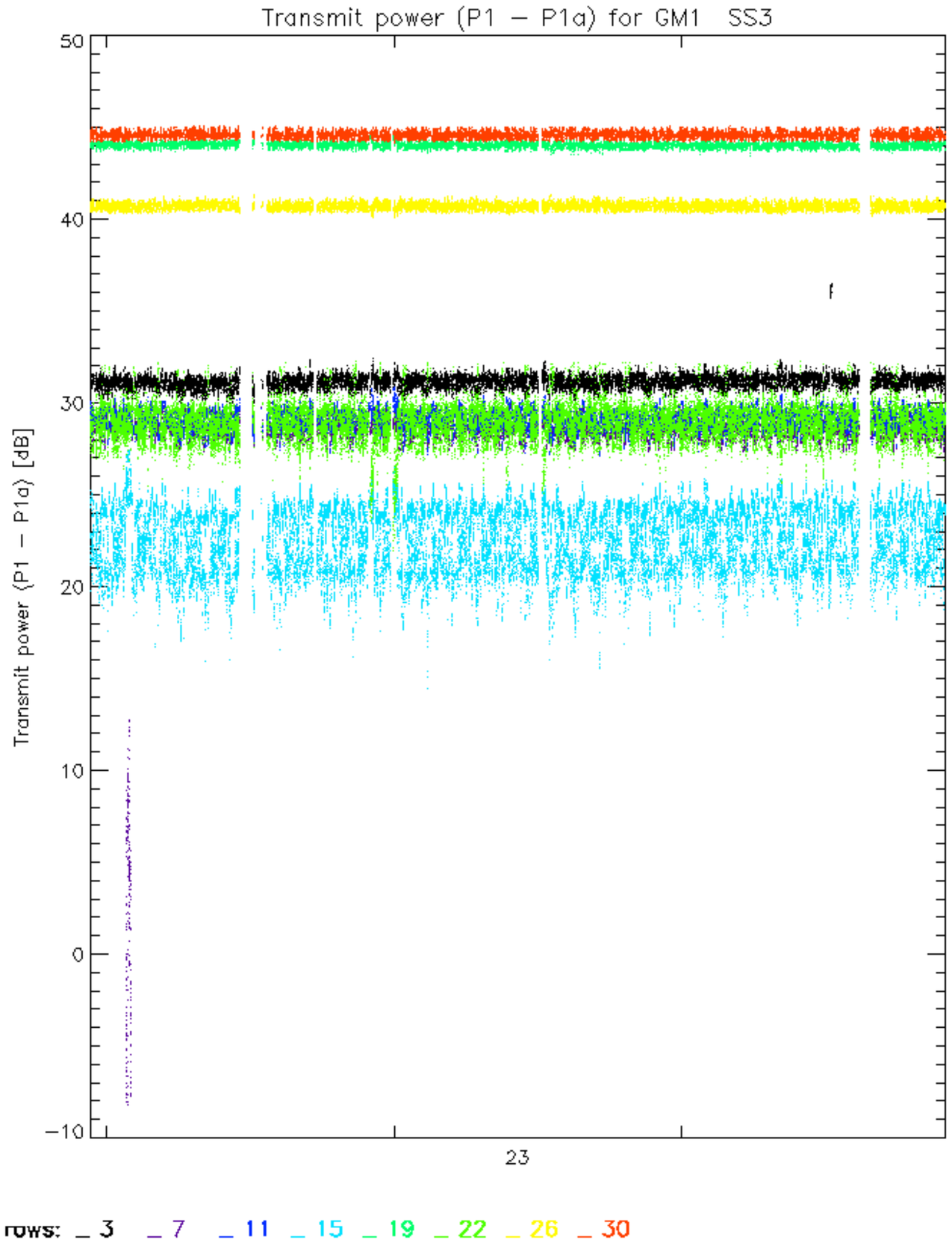
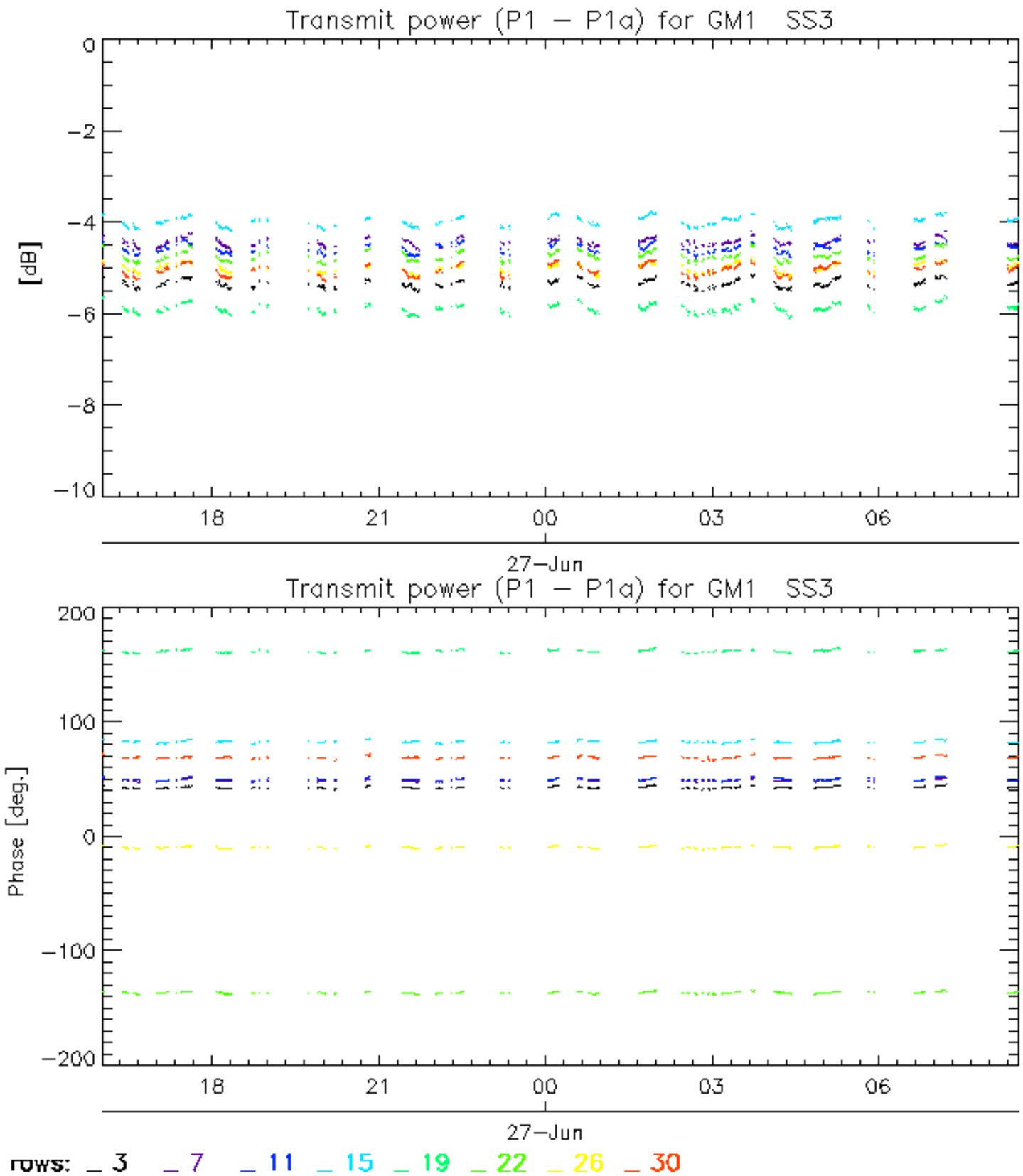
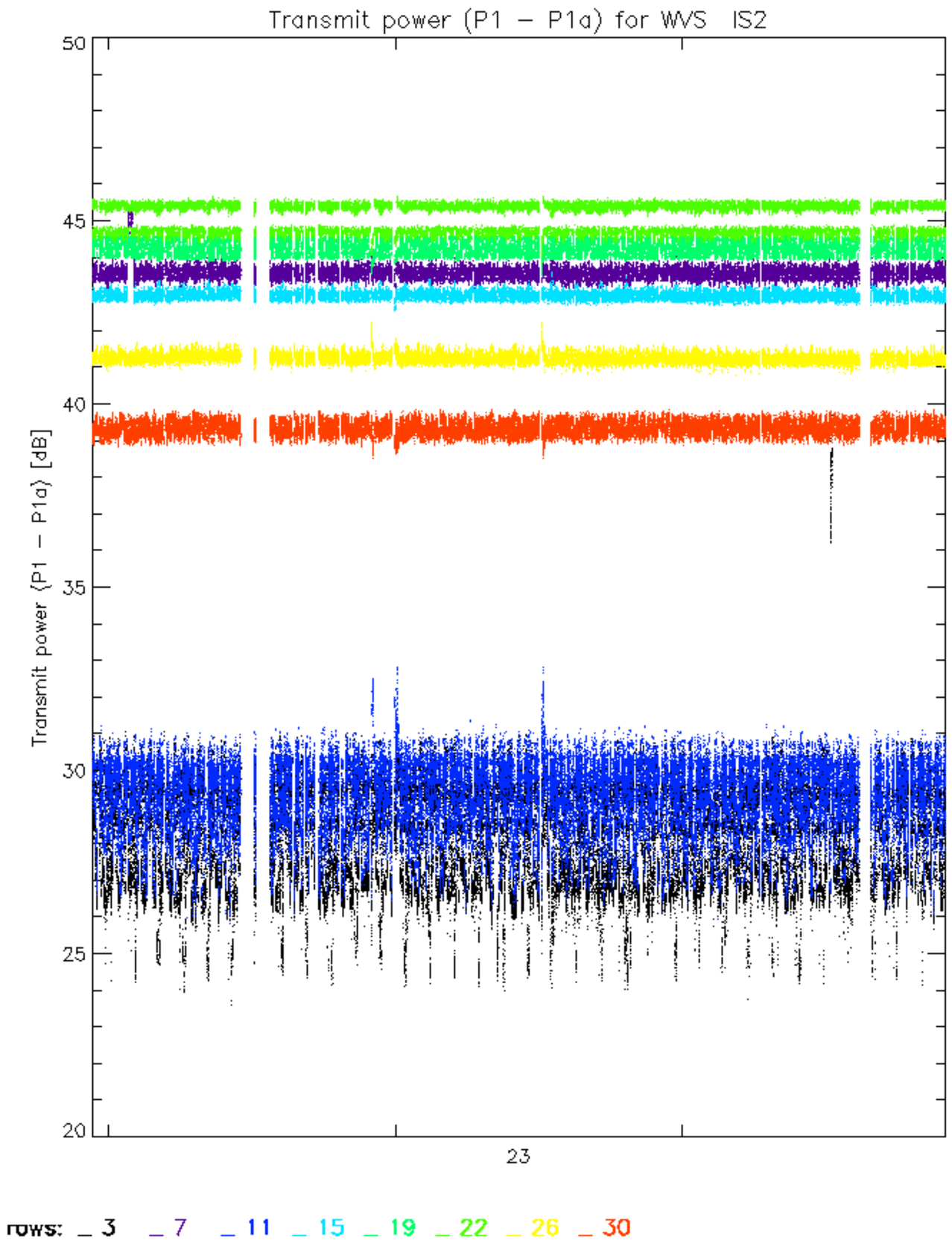
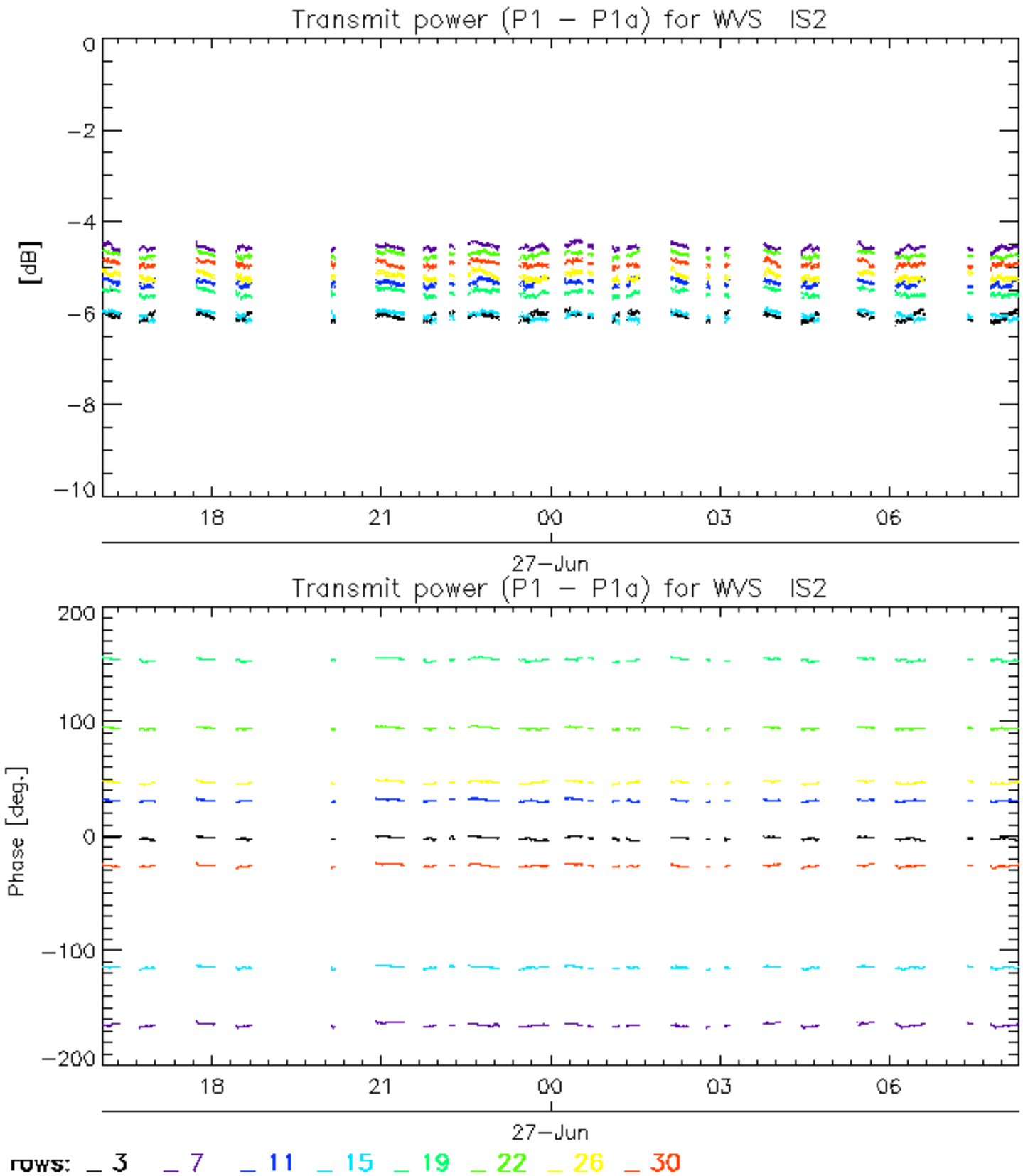

Transmit power (P1 – P1a) for GM1 SS3
Transmit power ⟨P1 – P1a⟩ [dB]
50
40
30
20
10
0
−10
23
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
27–Jun
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
27–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
23
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
27–Jun
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
27–Jun
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.