PRELIMINARY REPORT OF 060626

last update on Mon Jun 26 16:47:38 GMT 2006

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1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA_WVS_1P), global monitoring products (ASA_GM1_1P), which are the available few hours after the acquisition, on the browse (BP) products and
on the Module Stepping (MS) product.

2 - Summary

2.1 - Instrument Unavailability

No unavailabilities during the reported period.

2.2 - Auxiliary files

Summary of the auxiliary files used from 2006-06-25 00:00:00 to 2006-06-26 16:47:38

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	43	67	14	0	14
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	43	67	14	0	14
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	43	67	14	0	14
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	43	67	14	0	14

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	33	44	38	19	51
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	33	44	38	19	51
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	33	44	38	19	51
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	33	44	38	19	51

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	20060624 204907
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	-3.941487	0.046270	-0.046020
7	P1	-3.136697	0.012884	-0.021812
11	P1	-4.103251	0.016573	-0.004757
15	P1	-6.151146	0.019424	-0.068794
19	P1	-3.357678	0.008554	-0.057522
22	P1	-4.520390	0.011649	-0.041720
26	P1	-3.966092	0.017021	0.029324
30	P1	-5.752670	0.008939	-0.030809
3	P1	-16.541477	0.568164	-0.143790
7	P1	-17.233376	0.136767	-0.094102
11	P1	-16.972393	0.282414	-0.086931
15	P1	-13.203499	0.197435	0.097019
19	P1	-14.353179	0.052175	-0.157335
22	P1	-16.161545	0.371441	0.051848
26	P1	-15.201594	0.227172	0.131308
30	P1	-17.150013	0.412078	-0.056536

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.119280	0.082120	0.134708
7	P2	-22.008169	0.098538	0.106328
11	P2	-15.850438	0.112253	0.109371
15	P2	-7.156552	0.095263	-0.003512
19	P2	-9.169600	0.087051	0.006863
22	P2	-18.167944	0.083847	-0.038596
26	P2	-16.407068	0.089049	-0.051941
30	P2	-19.554911	0.087992	0.002228

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.185204	0.003950	-0.013989
7	P3	-8.185204	0.003950	-0.013989
11	P3	-8.185204	0.003950	-0.013989
15	P3	-8.185204	0.003950	-0.013989
19	P3	-8.185204	0.003950	-0.013989
22	P3	-8.185204	0.003950	-0.013989
26	P3	-8.185204	0.003950	-0.013989
30	P3	-8.185204	0.003950	-0.013989

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	-3.810651	0.052152	-0.101084
7	P1	-2.575707	0.012542	0.009561
11	P1	-2.856092	0.013367	0.008921
15	P1	-3.514048	0.032453	-0.083278
19	P1	-3.412847	0.014377	-0.016800
22	P1	-5.083450	0.019579	0.004575
26	P1	-5.857209	0.016042	-0.026266
30	P1	-5.191534	0.026370	-0.011978
3	P1	-11.644447	0.141535	-0.100247
7	P1	-9.977108	0.034823	-0.018523
11	P1	-10.233397	0.059279	0.002908
15	P1	-10.692629	0.135249	-0.022835
19	P1	-15.542275	0.076950	-0.016355
22	P1	-20.947538	1.164912	-0.054465

26	P1	-16.454569	0.330881	0.098725
30	P1	-17.883423	0.372237	0.093885

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.799564	0.075644	0.223582
7	P2	-22.478001	0.132217	0.116855
11	P2	-11.133786	0.049346	0.112692
15	P2	-4.921386	0.049528	-0.004415
19	P2	-6.882727	0.054166	0.015191
22	P2	-8.209692	0.043398	0.013875
26	P2	-24.154907	0.069206	-0.055748
30	P2	-22.057024	0.056931	0.056606

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.019933	0.004905	-0.005660
7	P3	-8.019959	0.004887	-0.005655
11	P3	-8.019903	0.004893	-0.006081
15	P3	-8.019880	0.004899	-0.005612
19	P3	-8.019816	0.004898	-0.005421
22	P3	-8.019998	0.004882	-0.005841
26	P3	-8.020037	0.004899	-0.005660
30	P3	-8.019926	0.004882	-0.005409

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	0.000562564
	stdev	1.69711e-07
MEAN Q	mean	0.000527120
	stdev	2.19493e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.137279
	stdev	0.00116084
STDEV Q	mean	0.137637
	stdev	0.00117872

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006062[456]
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_1PNPDE20060624_113644_000000062048_00467_22565_5356.N1	0	116

ASA_WSM_1PNPDE20060624_230552_000001102048_00474_22572_5298.N1	0	2
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

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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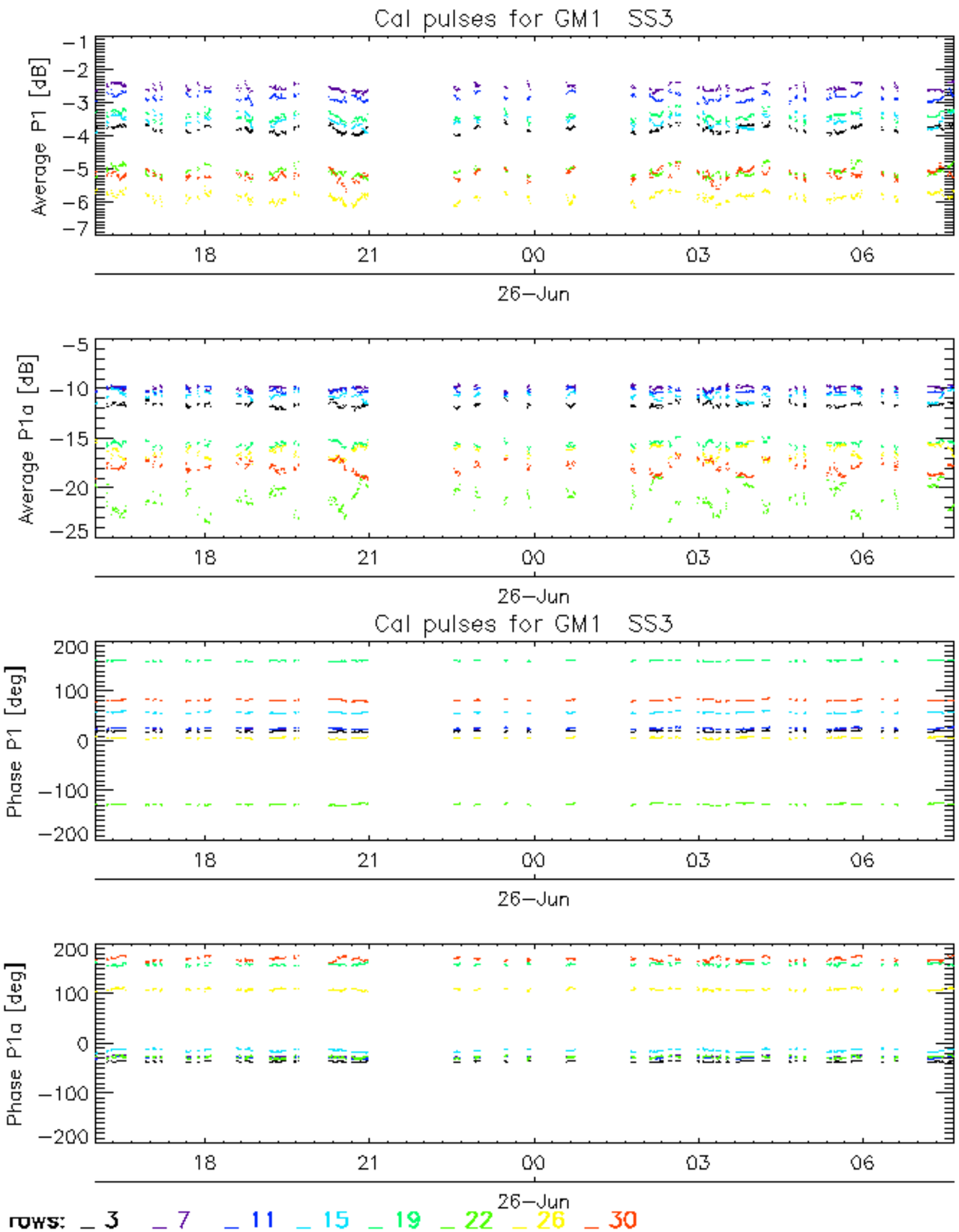
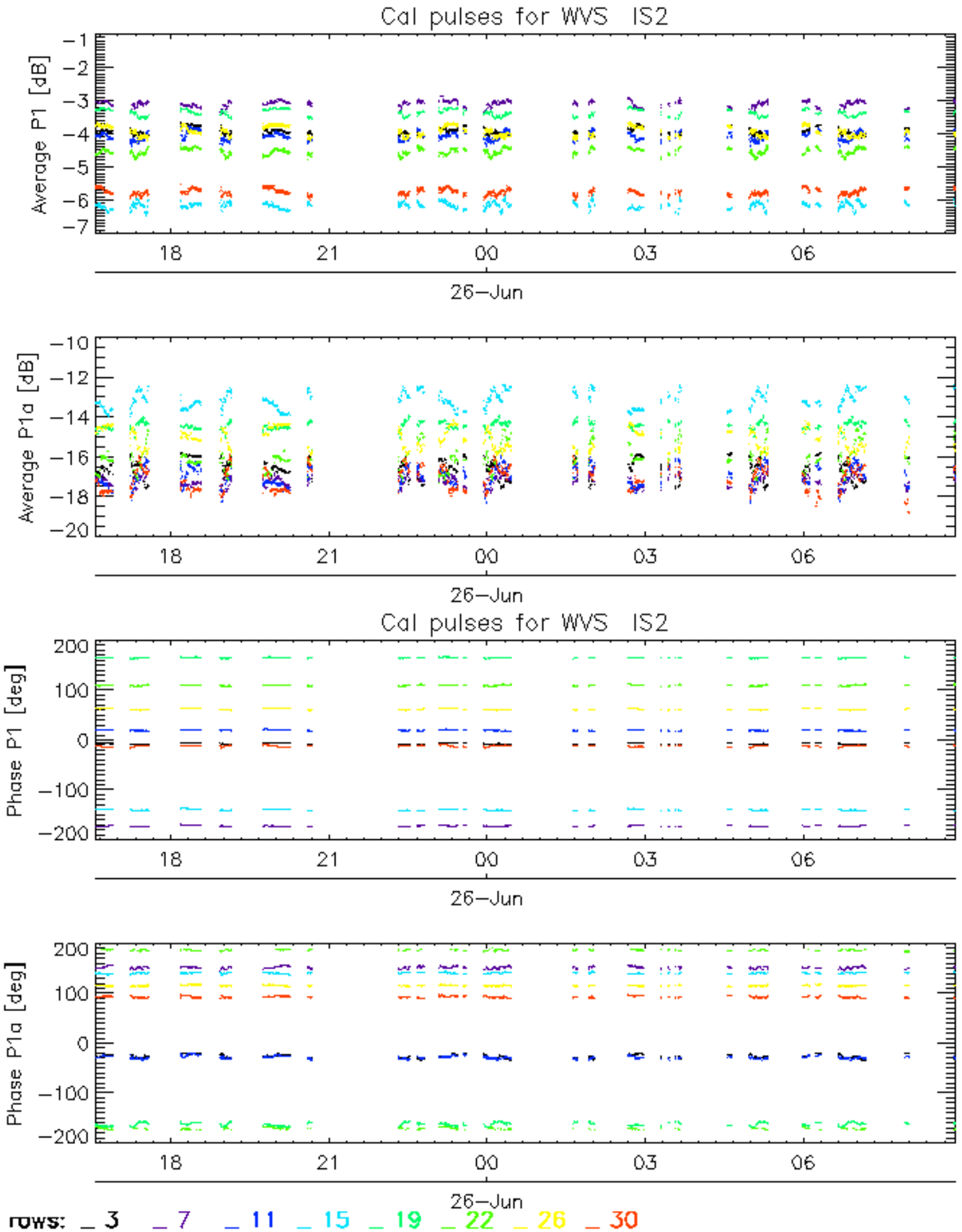
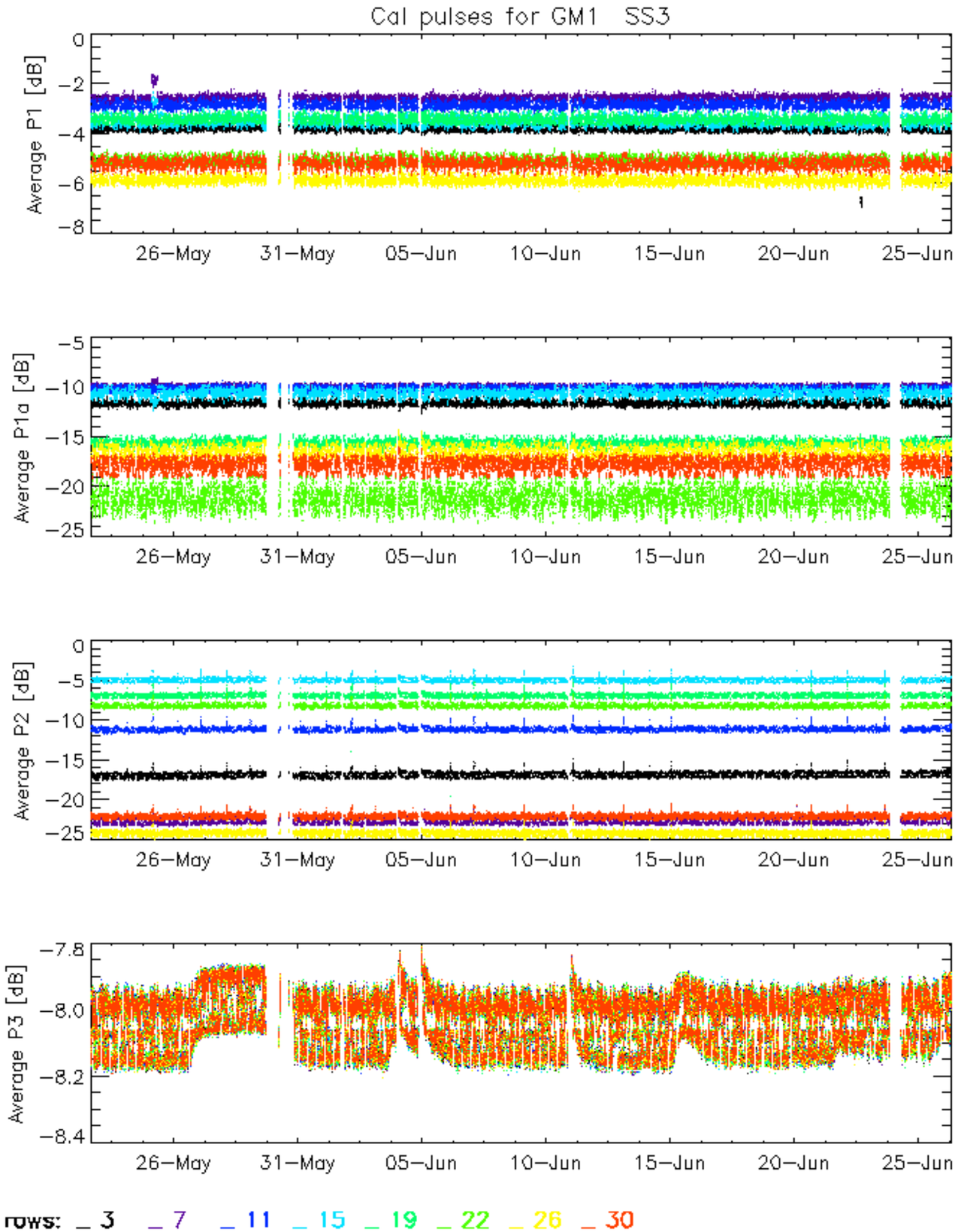
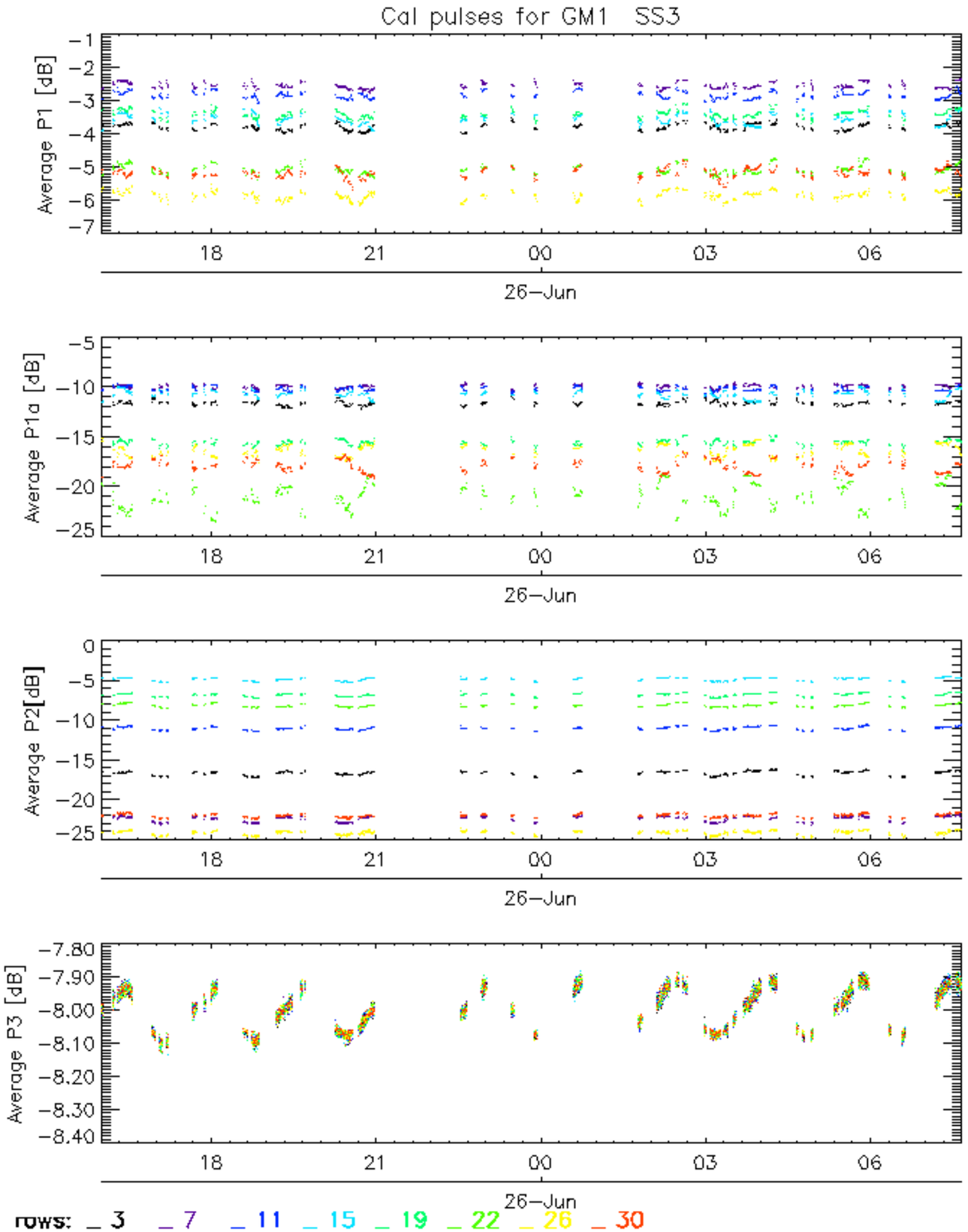
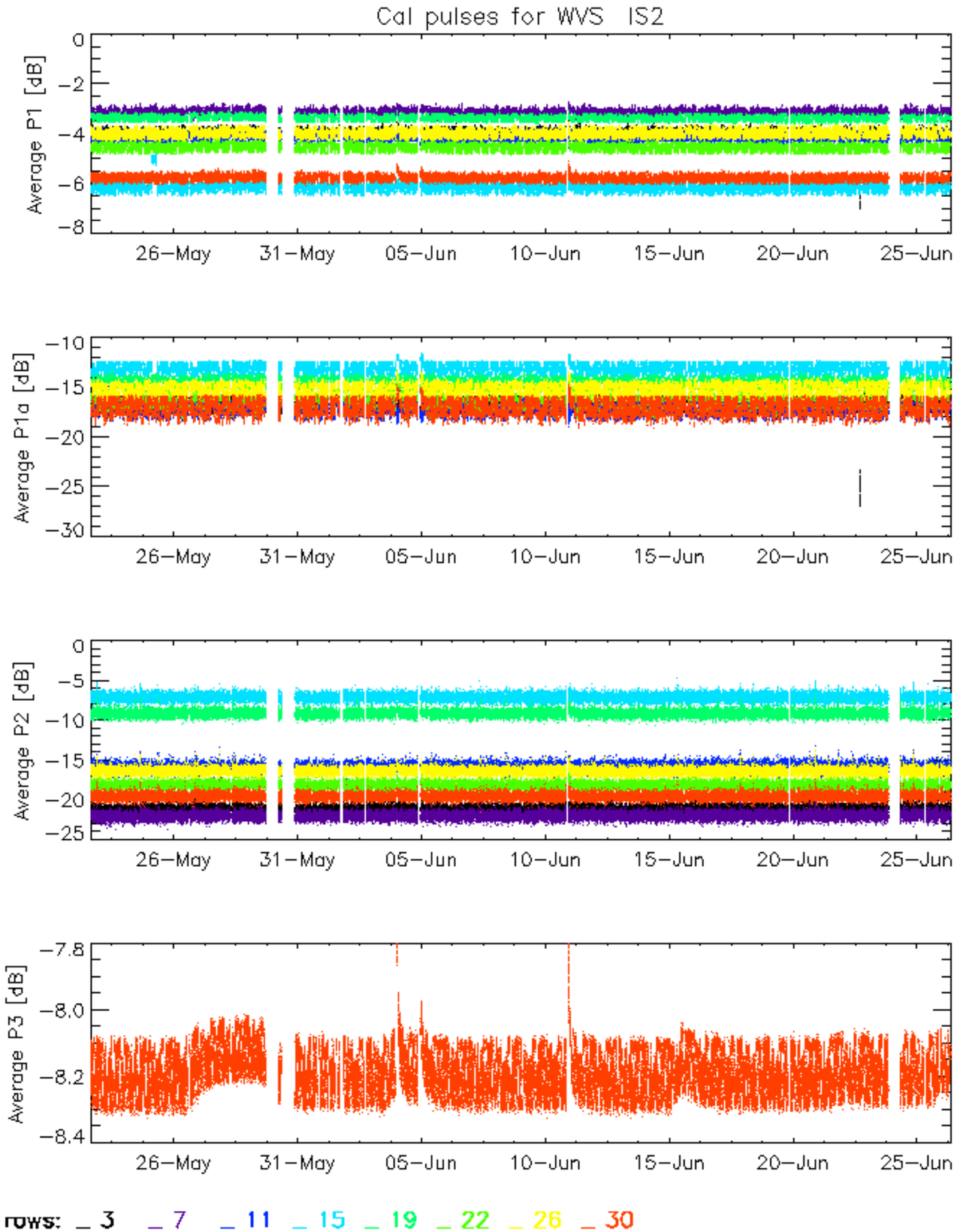
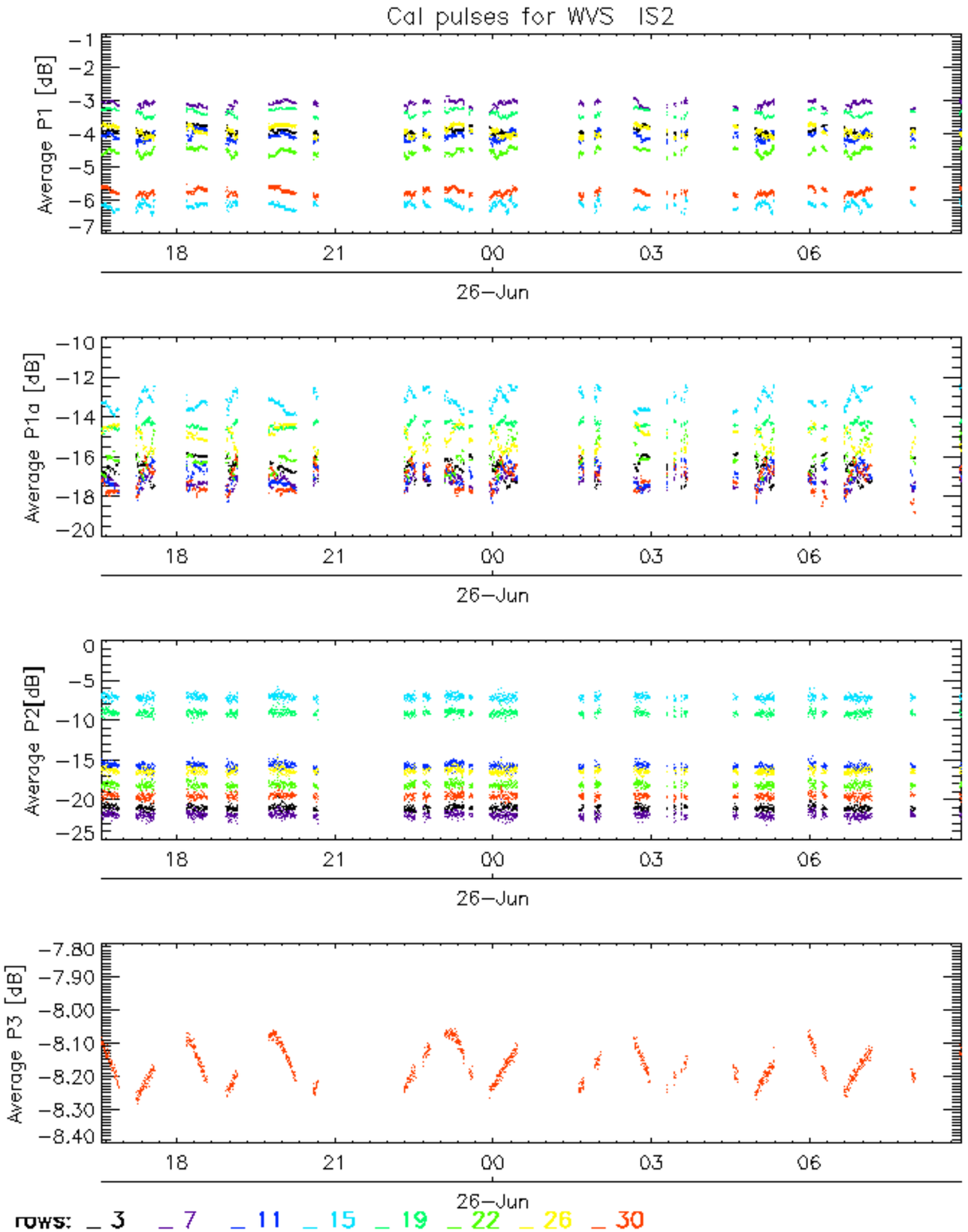

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
26−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
26−Jun
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
26−Jun
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
26−Jun
rows: _ 3 _ 7 _ 11 _ 15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


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

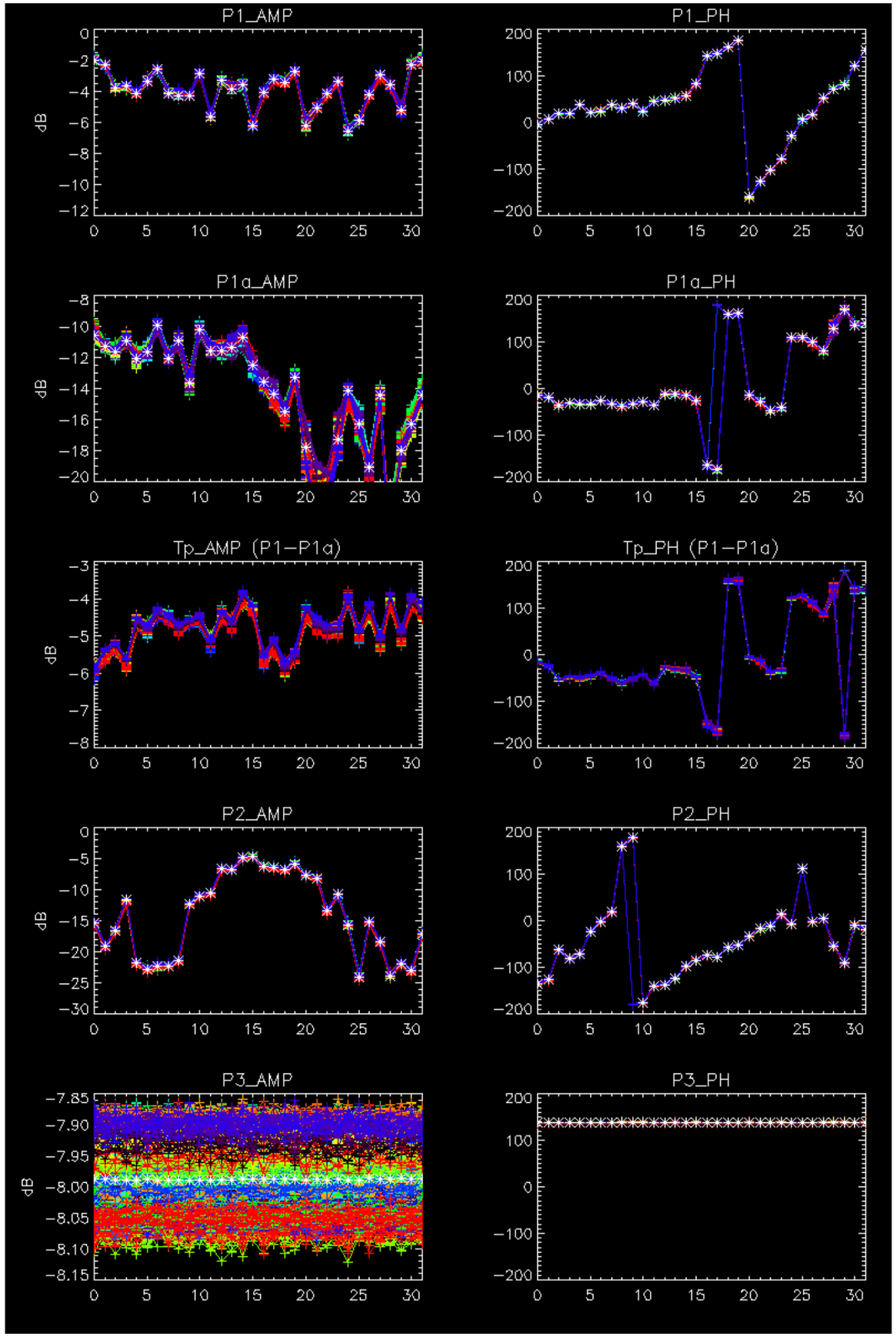

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
26−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
26−Jun
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
26−Jun
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
26−Jun
rows: _ 3 _ 7 _ 11 _ 15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

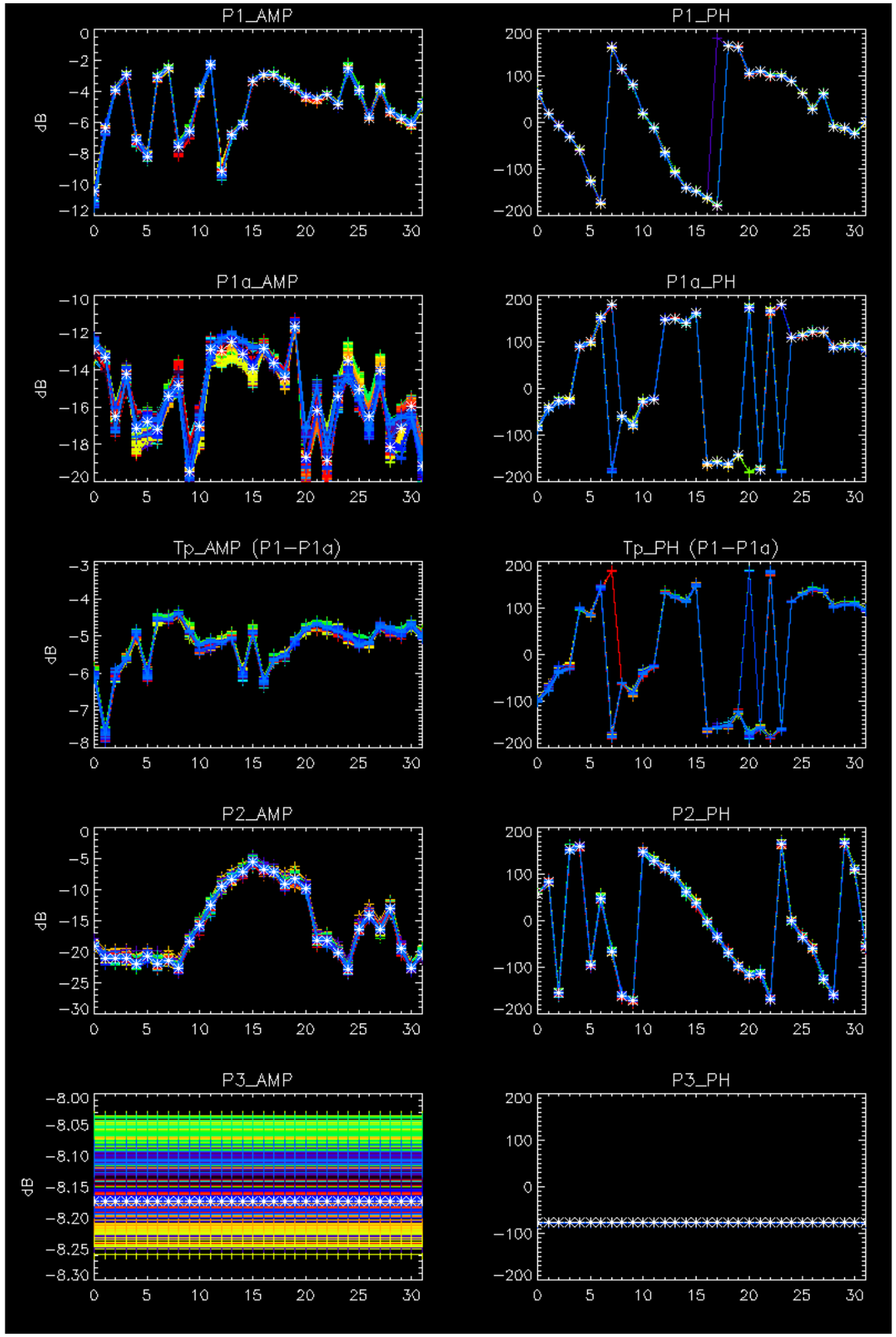

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
−10
−15
−20
−25
−30
Average P2 [dB]
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun
25−Jun
rows: 3 7 11 15 19 22 26 30


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

No anomalies observed on available browse products

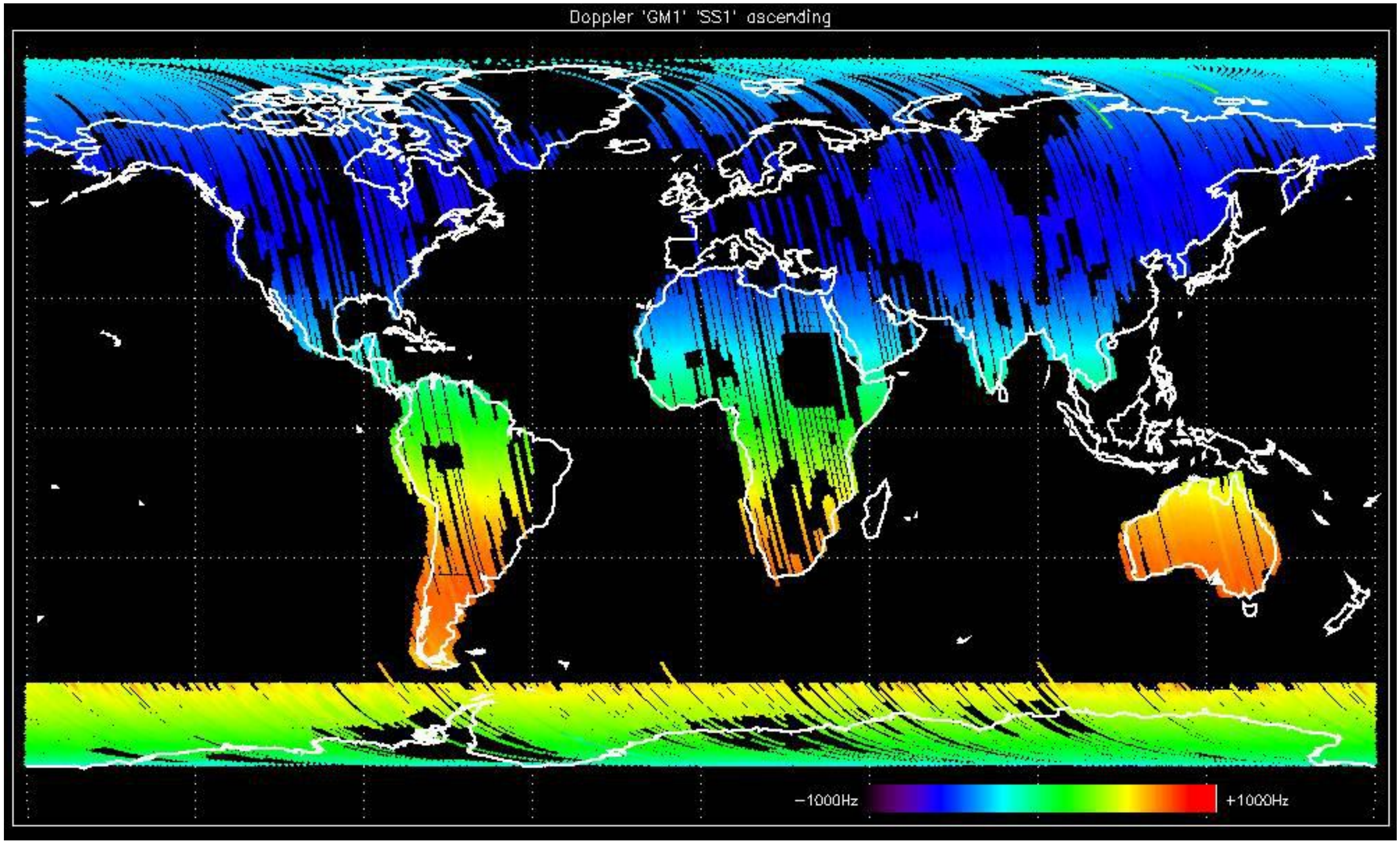
No anomalies observed.

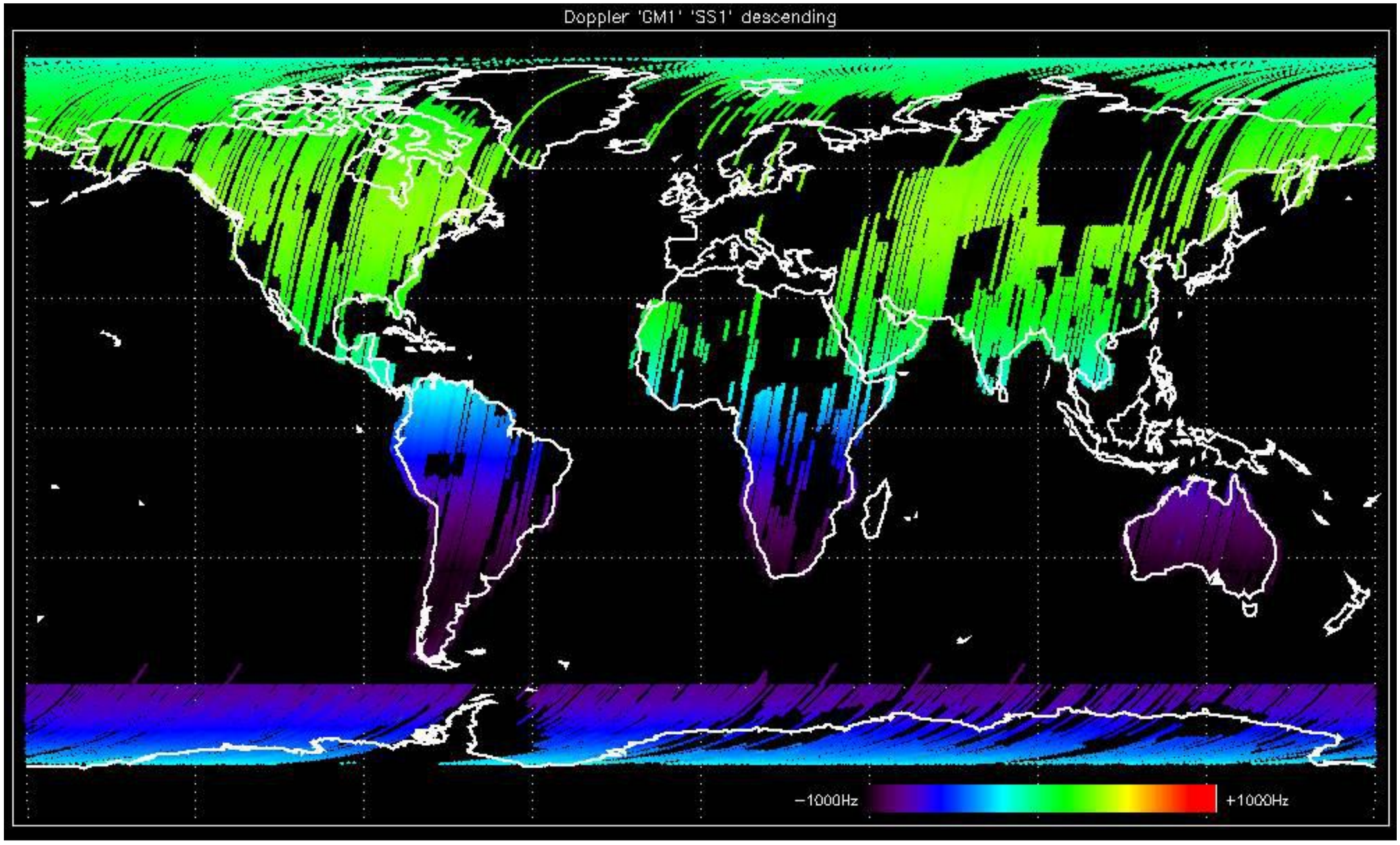

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

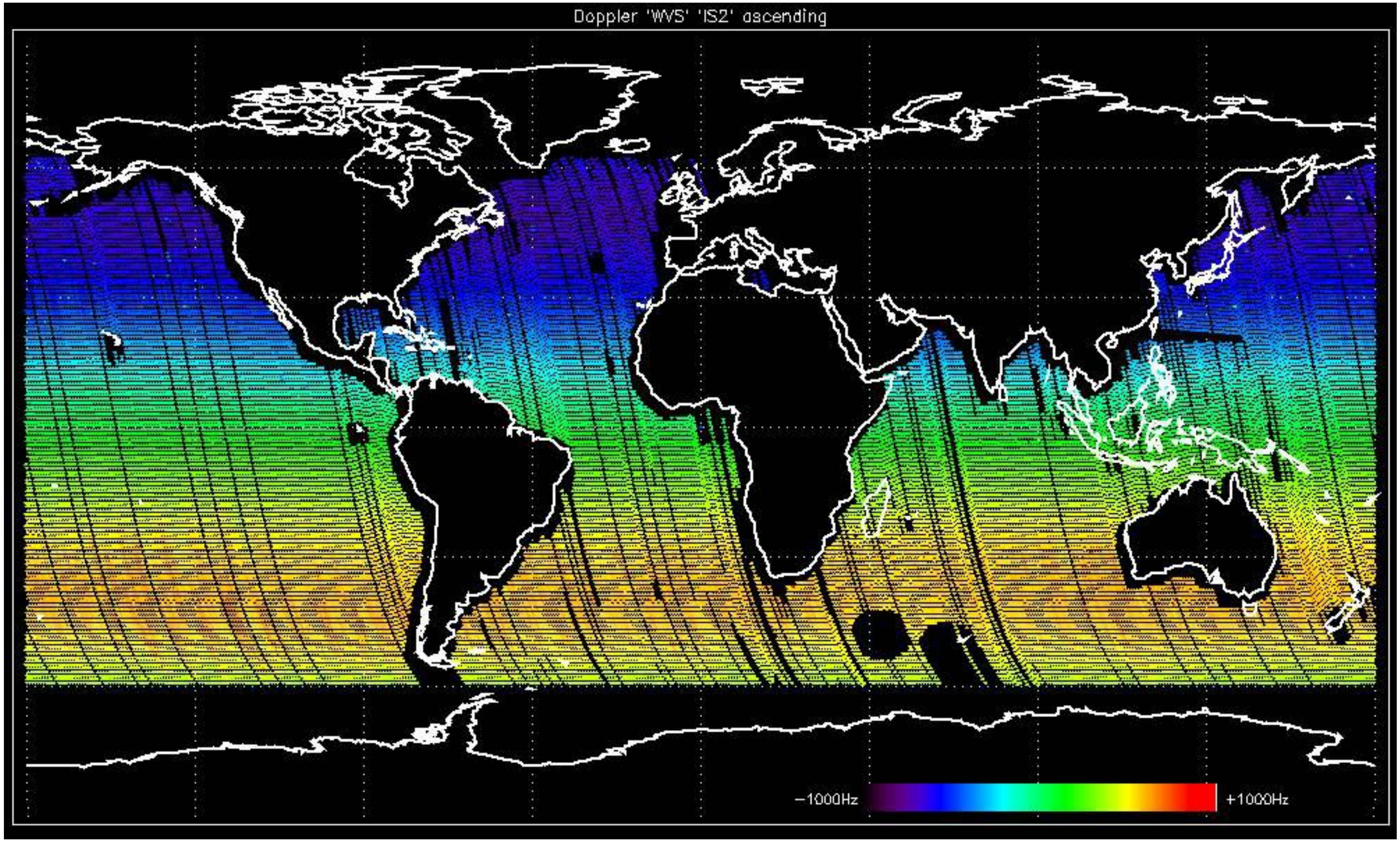

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

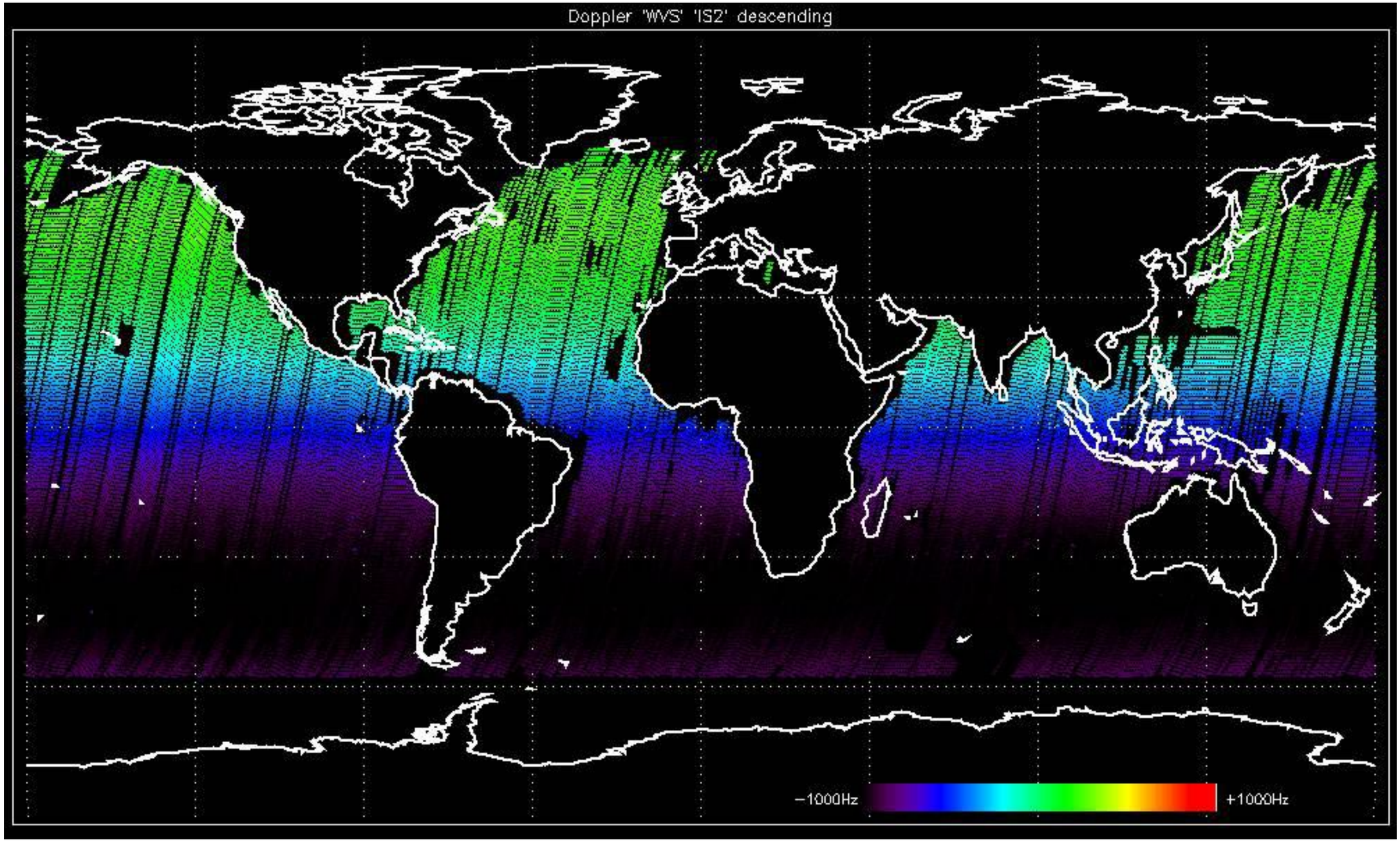
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

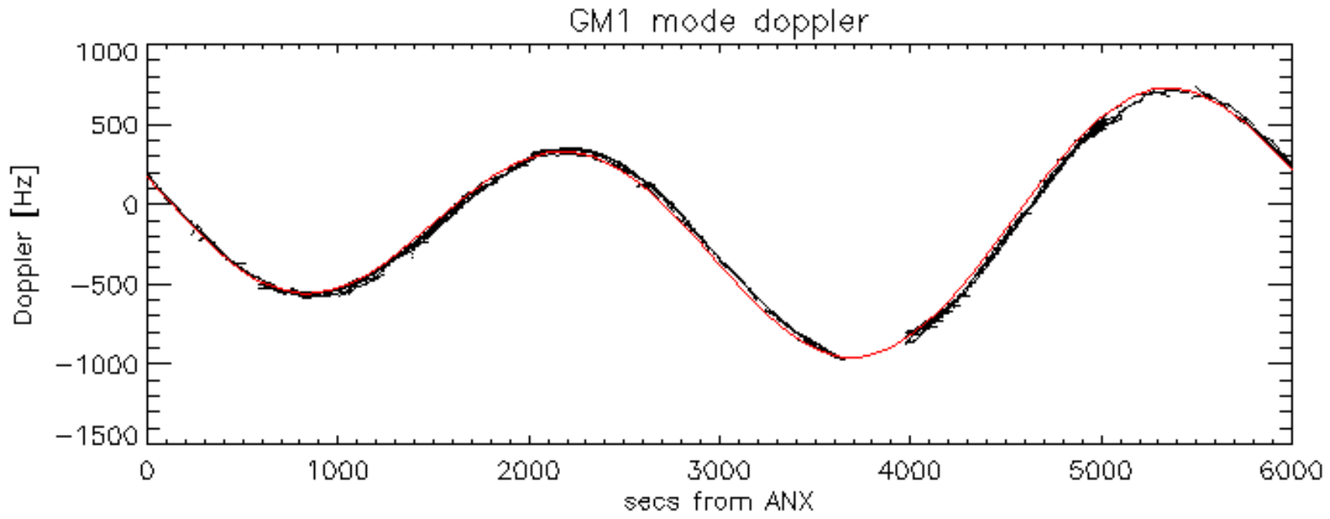
Preliminary report.The data is not yet controled

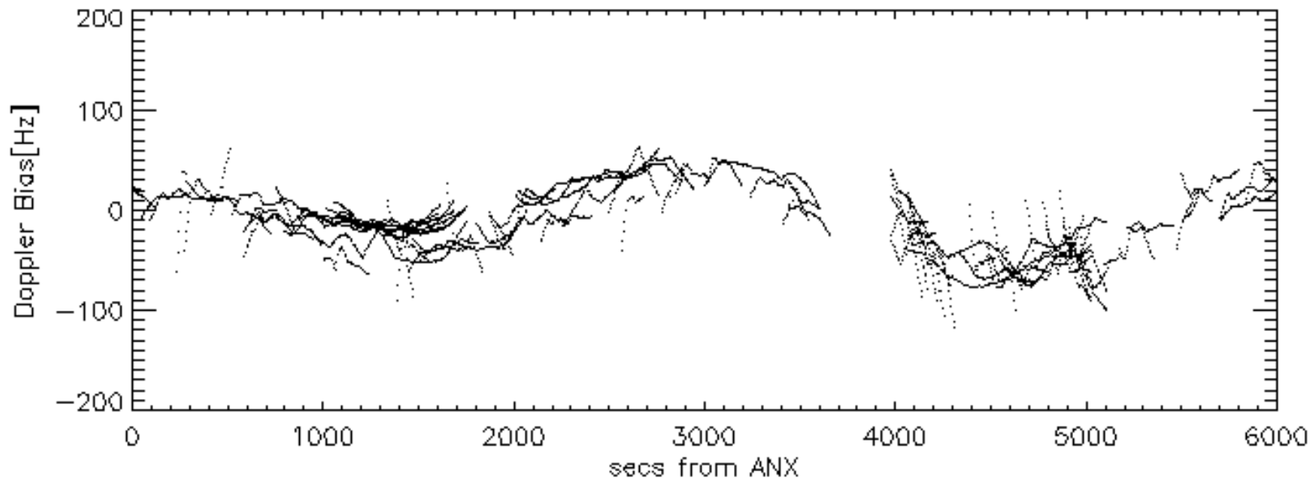

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

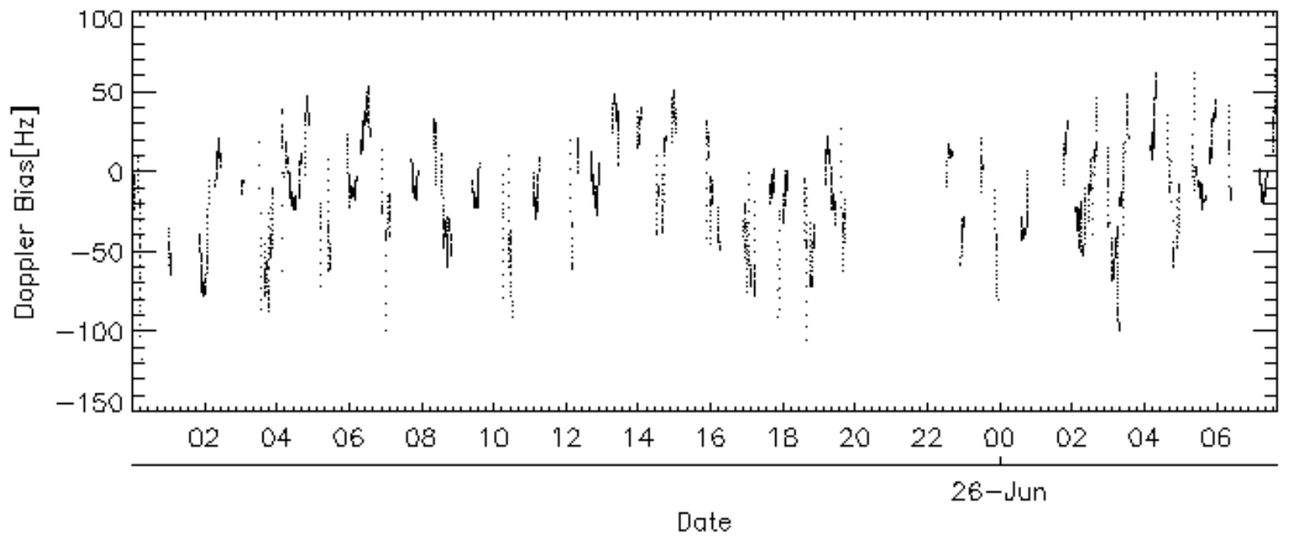

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

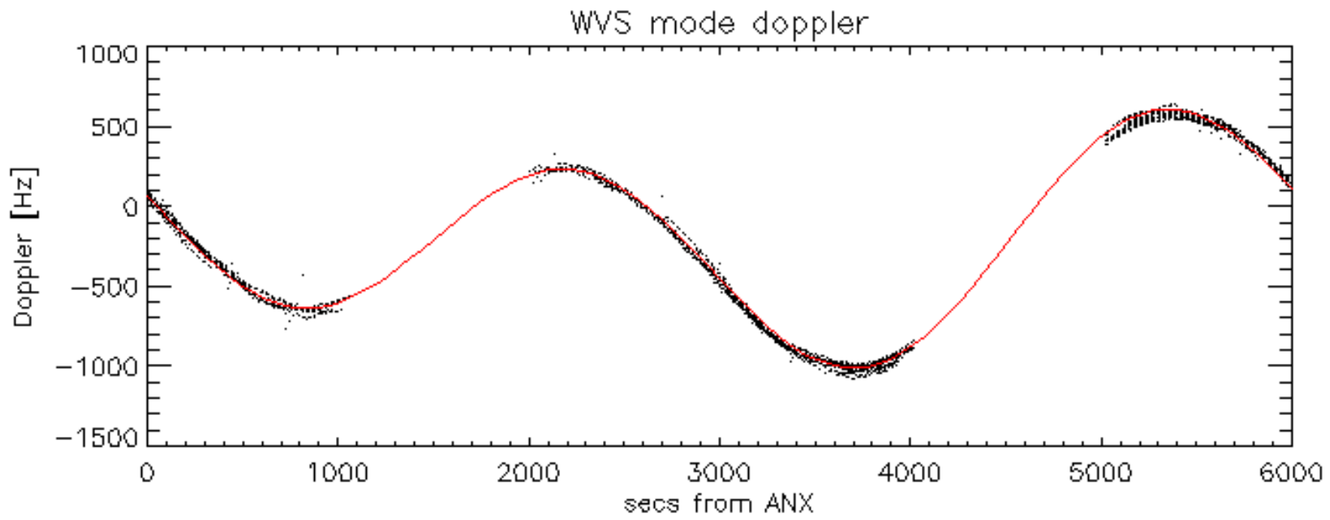

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

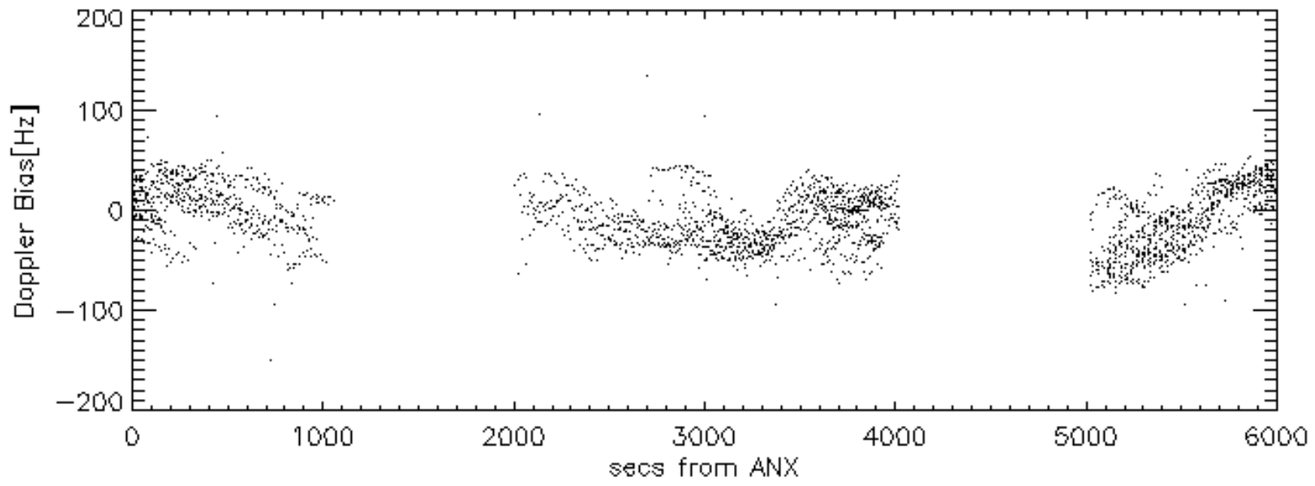

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

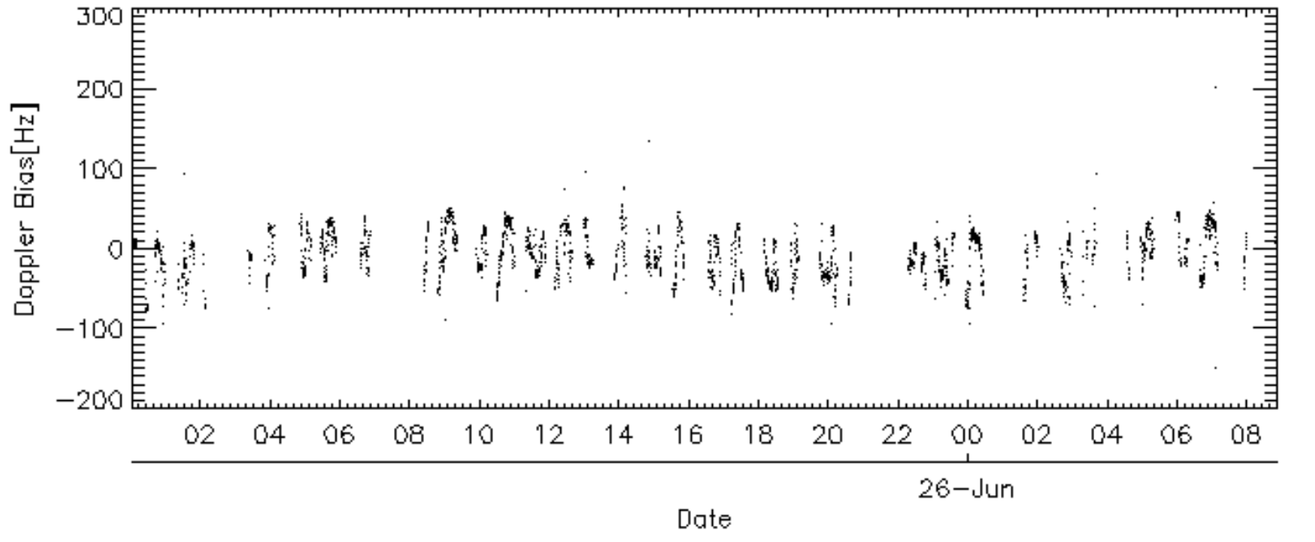

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

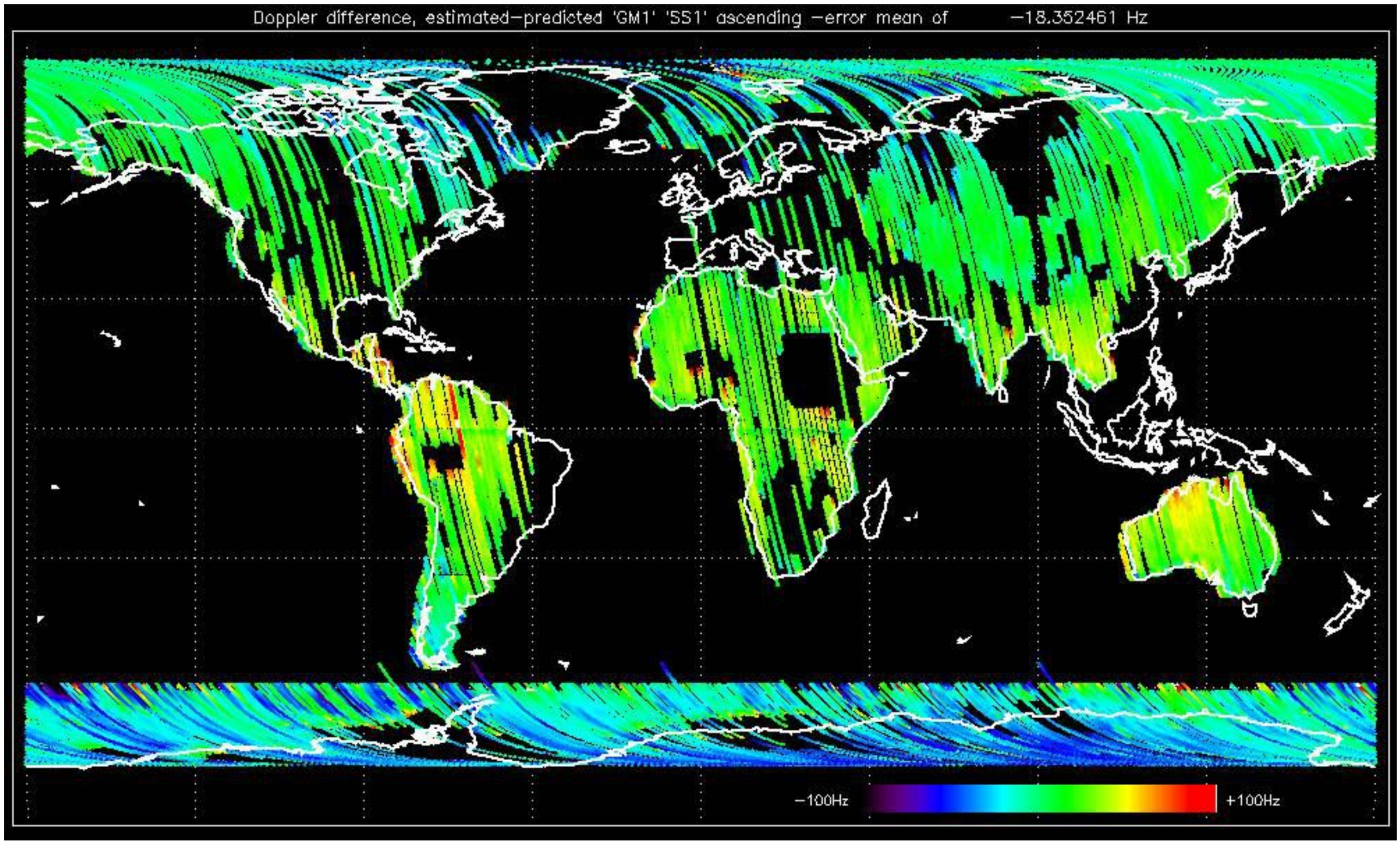

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

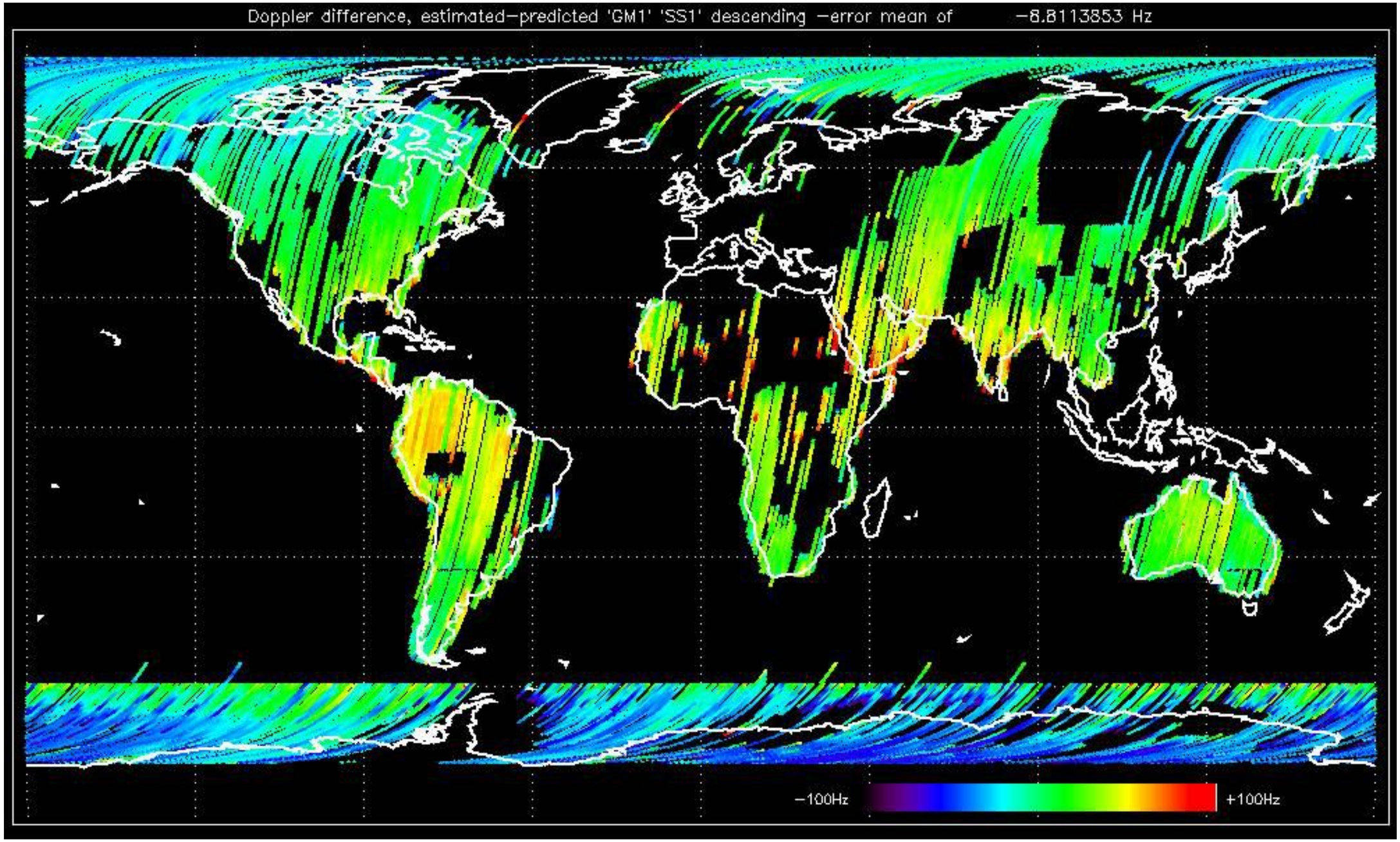

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
26−Jun
Date

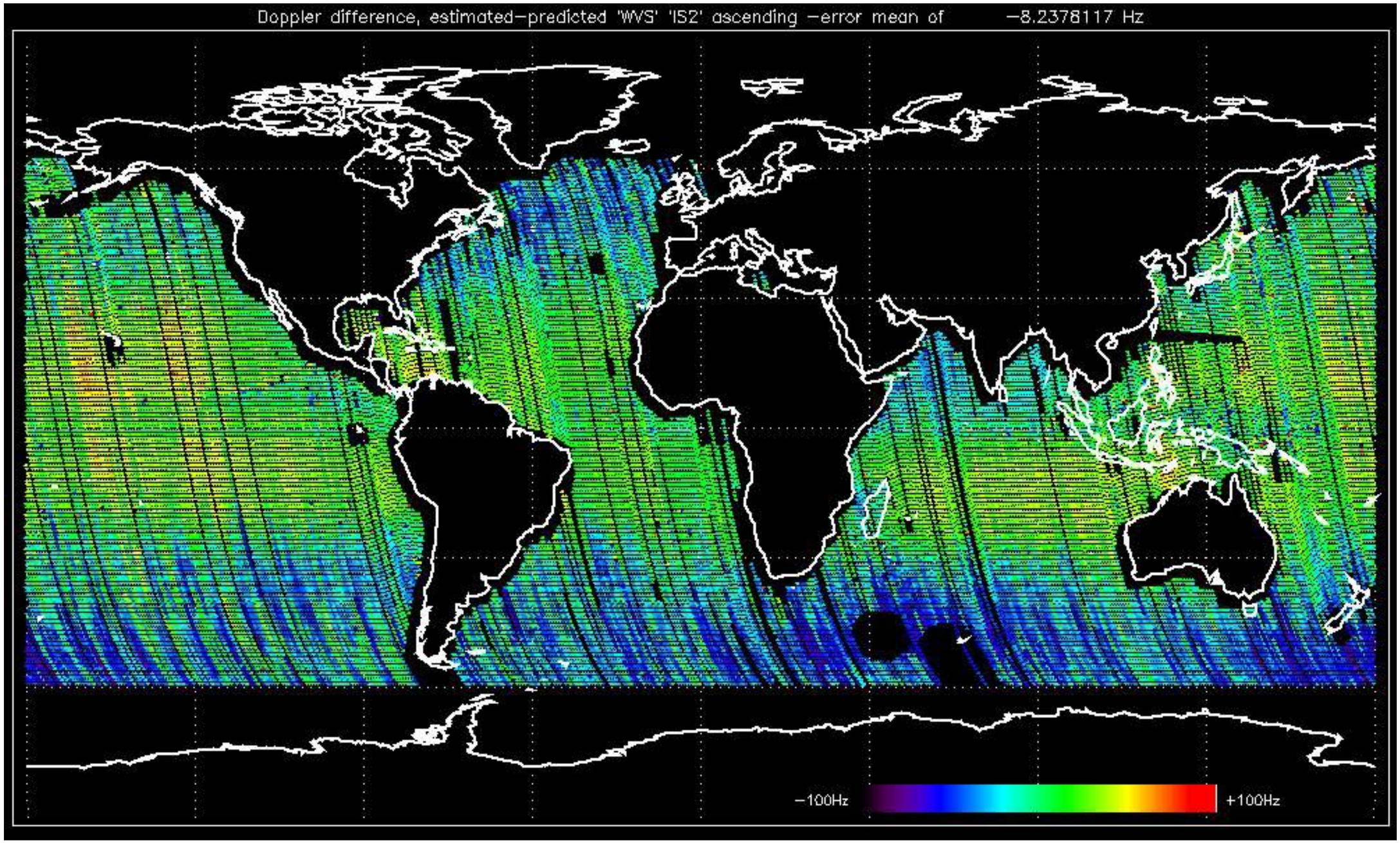

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

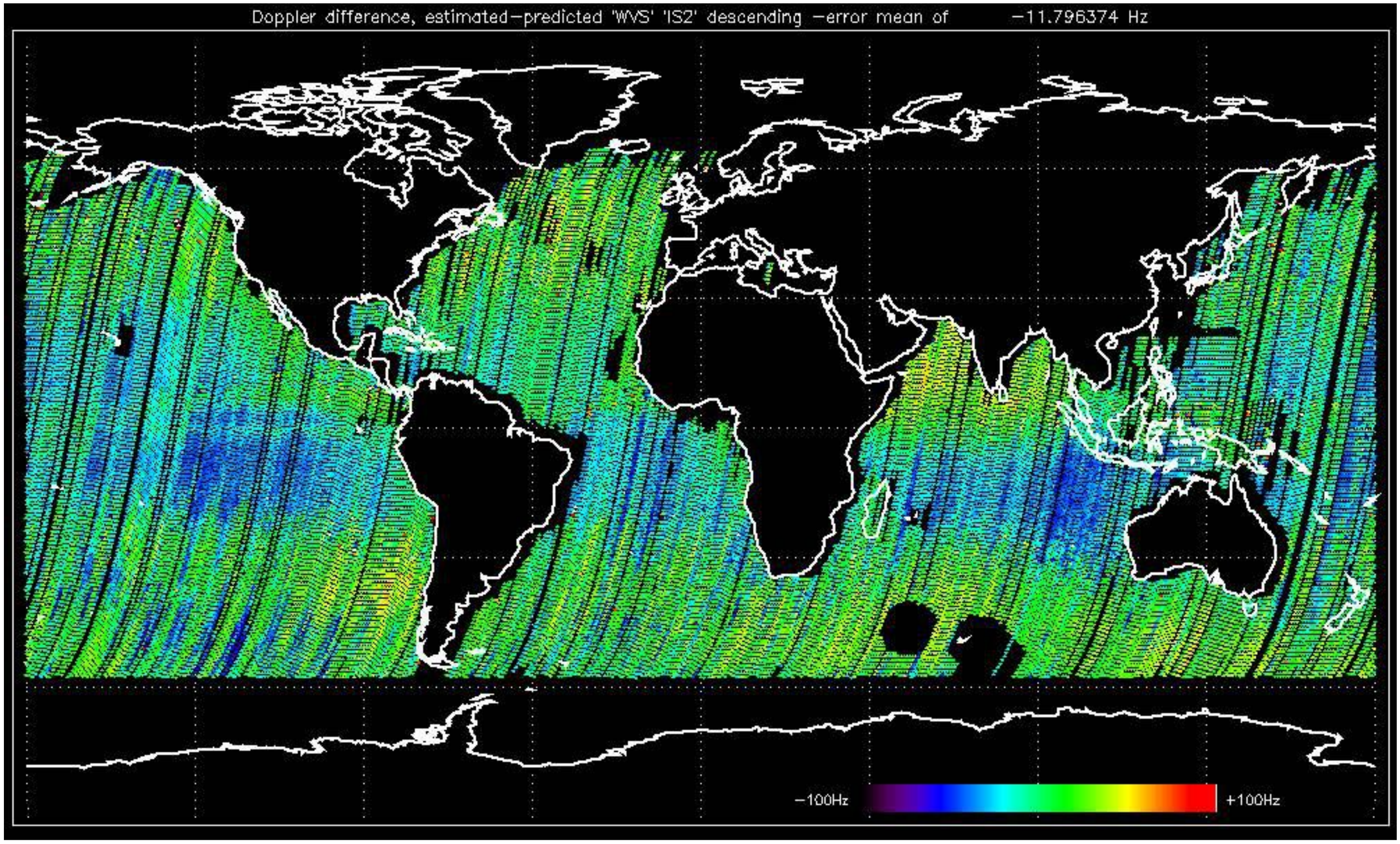

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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
26−Jun
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.352461 Hz
−100Hz
+100Hz

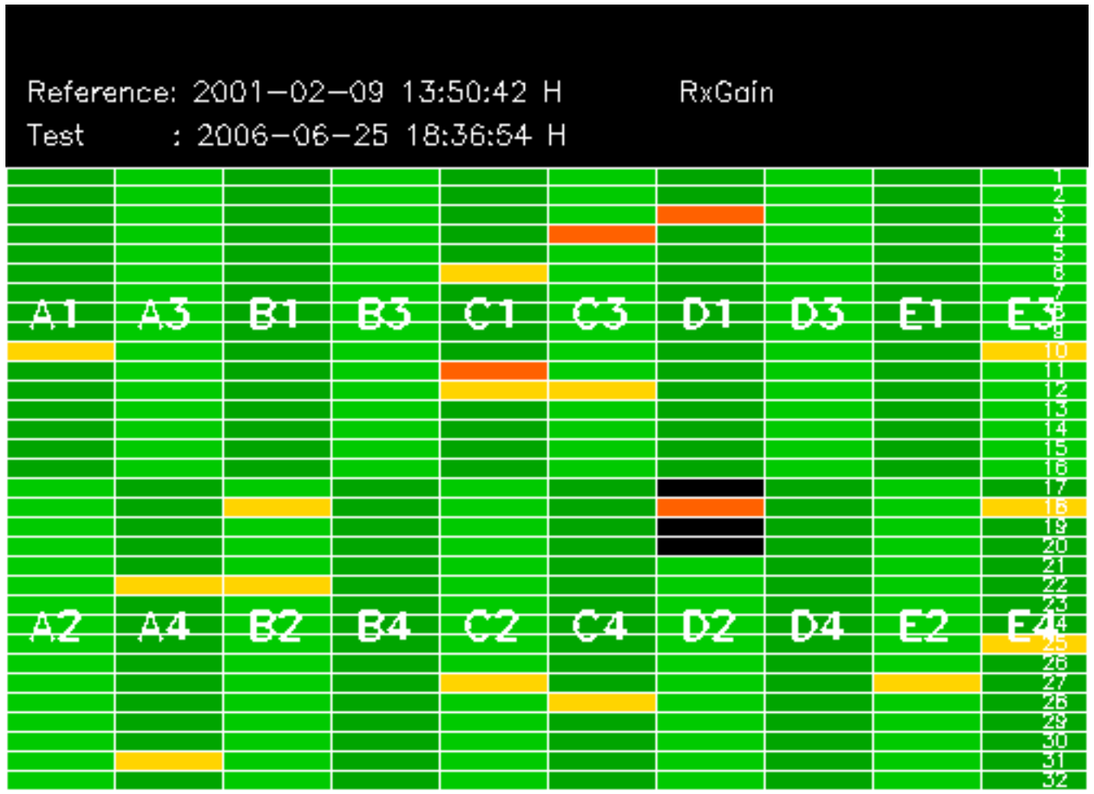

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −8.8113853 Hz
−100Hz
+100Hz

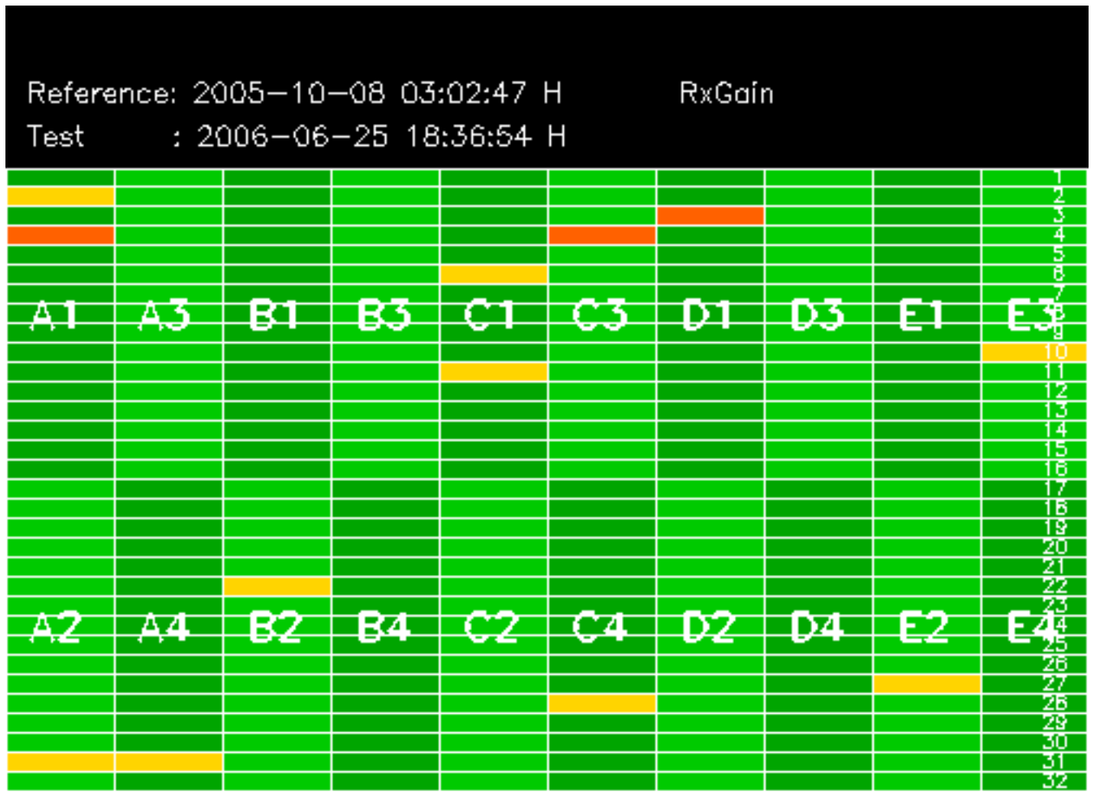

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −8.2378117 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −11.796374 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
1
2
3
4
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9
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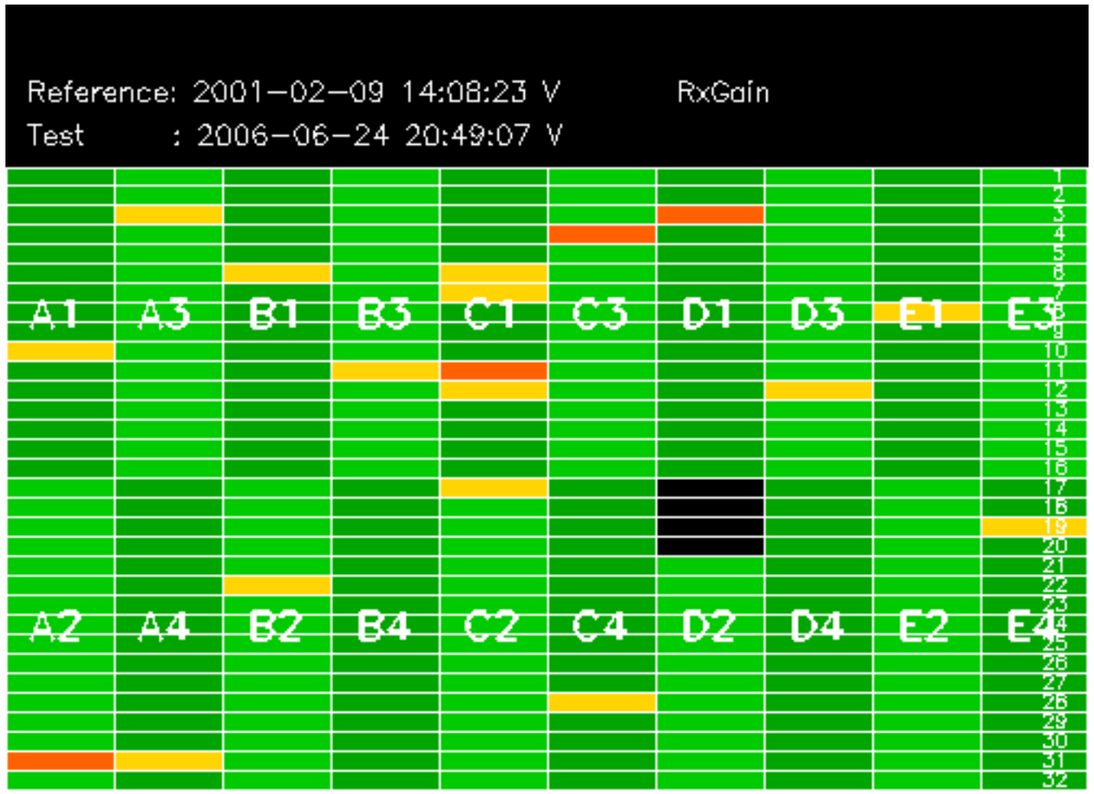
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-24 20:49:07 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
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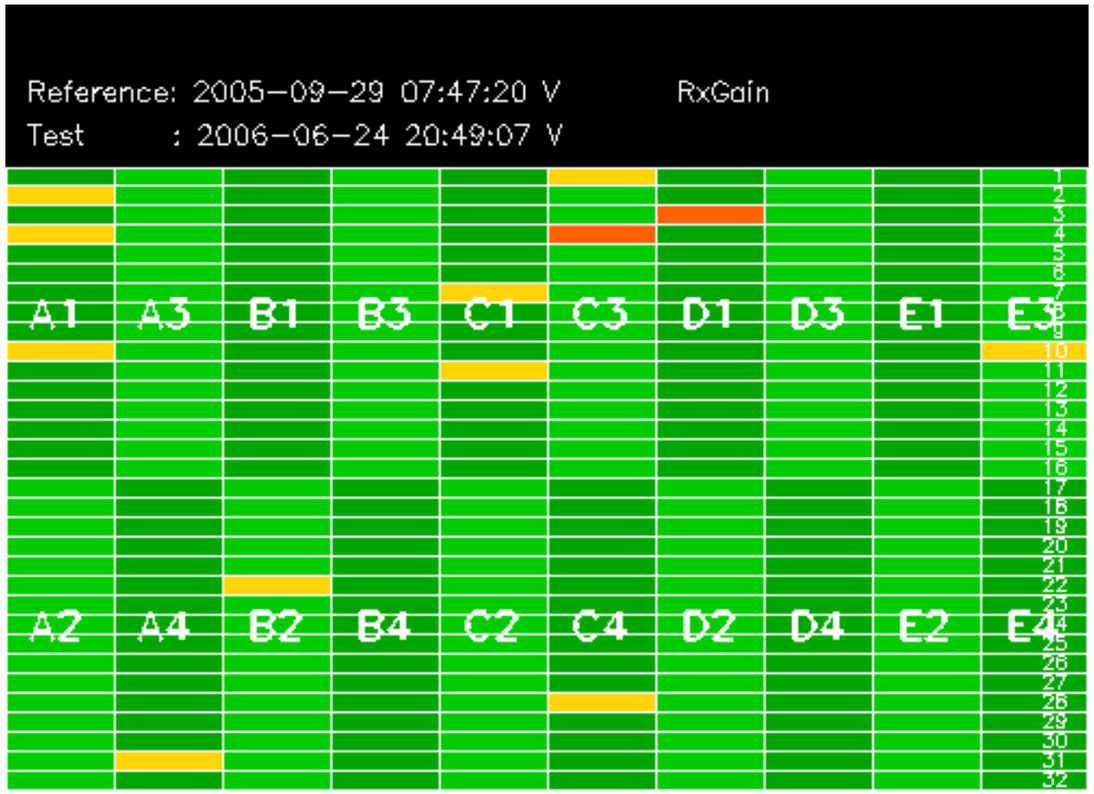
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-24 20:49:07 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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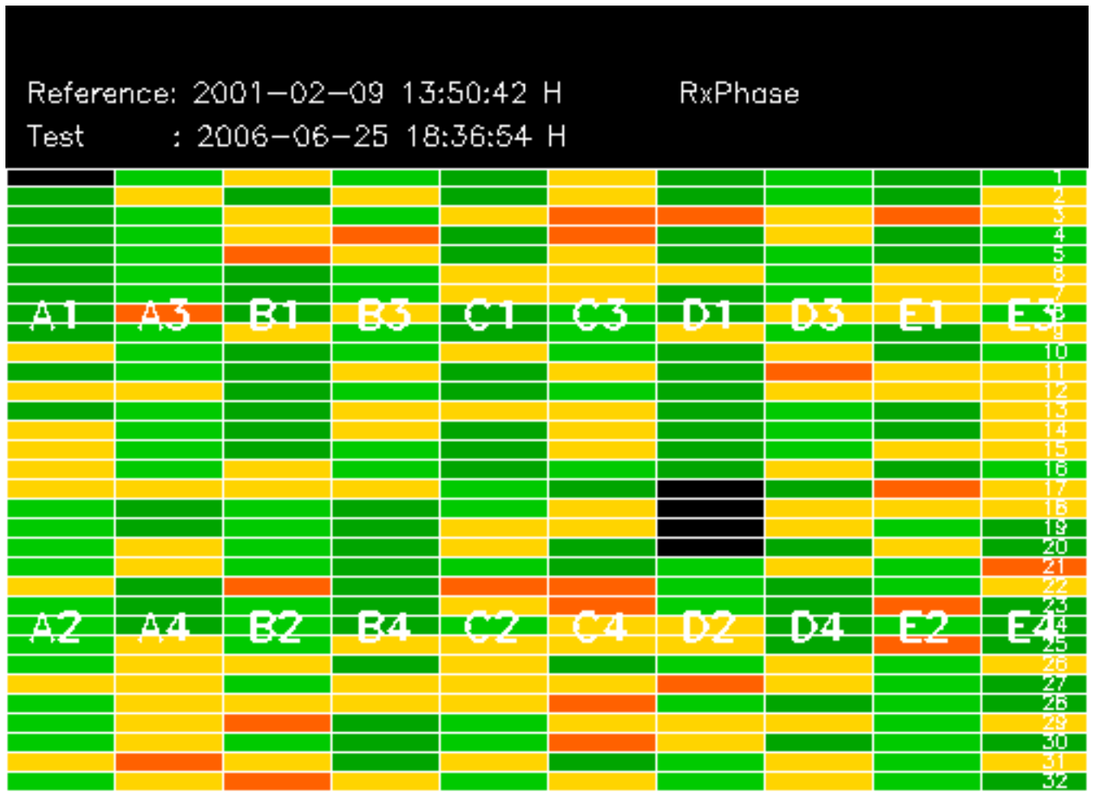
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-06-25 18:36:54 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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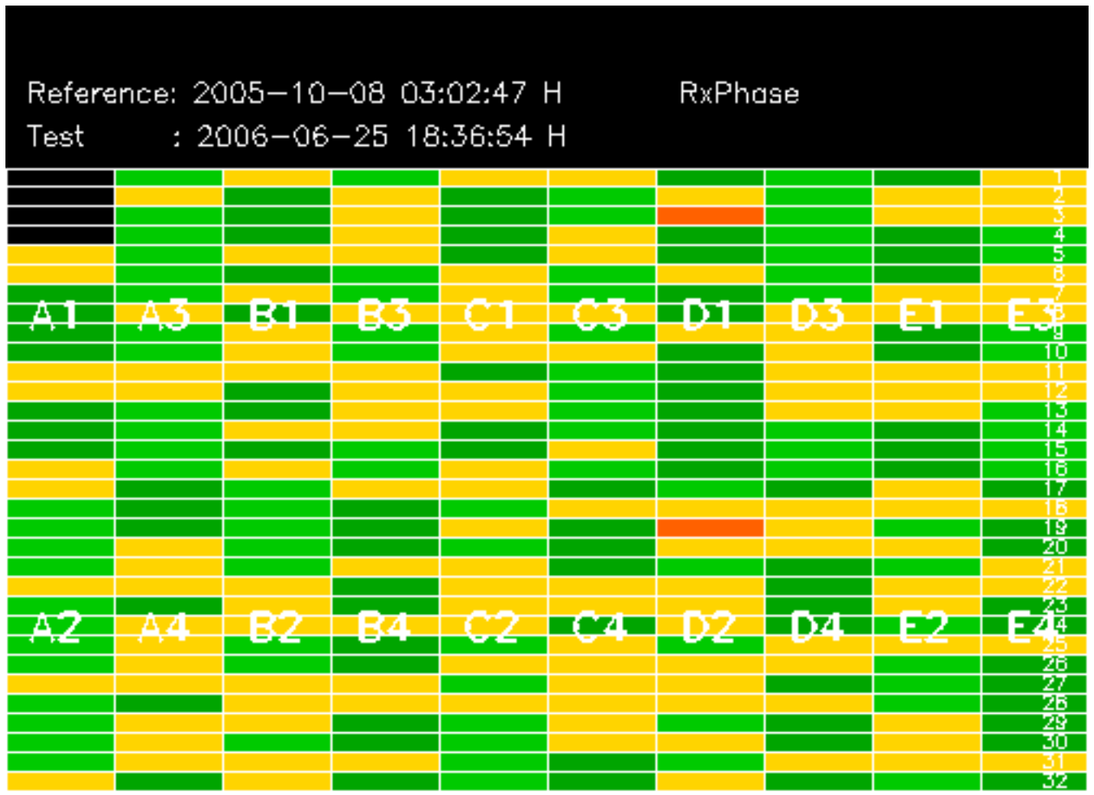
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-06-25 18:36:54 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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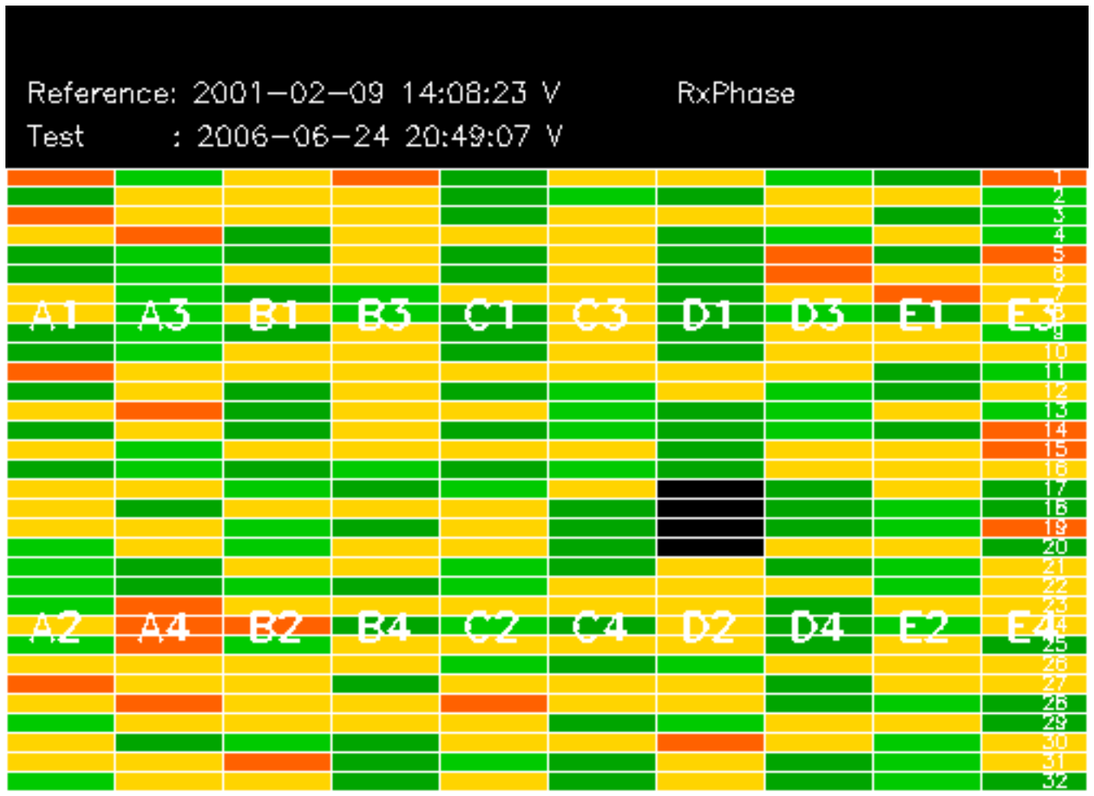
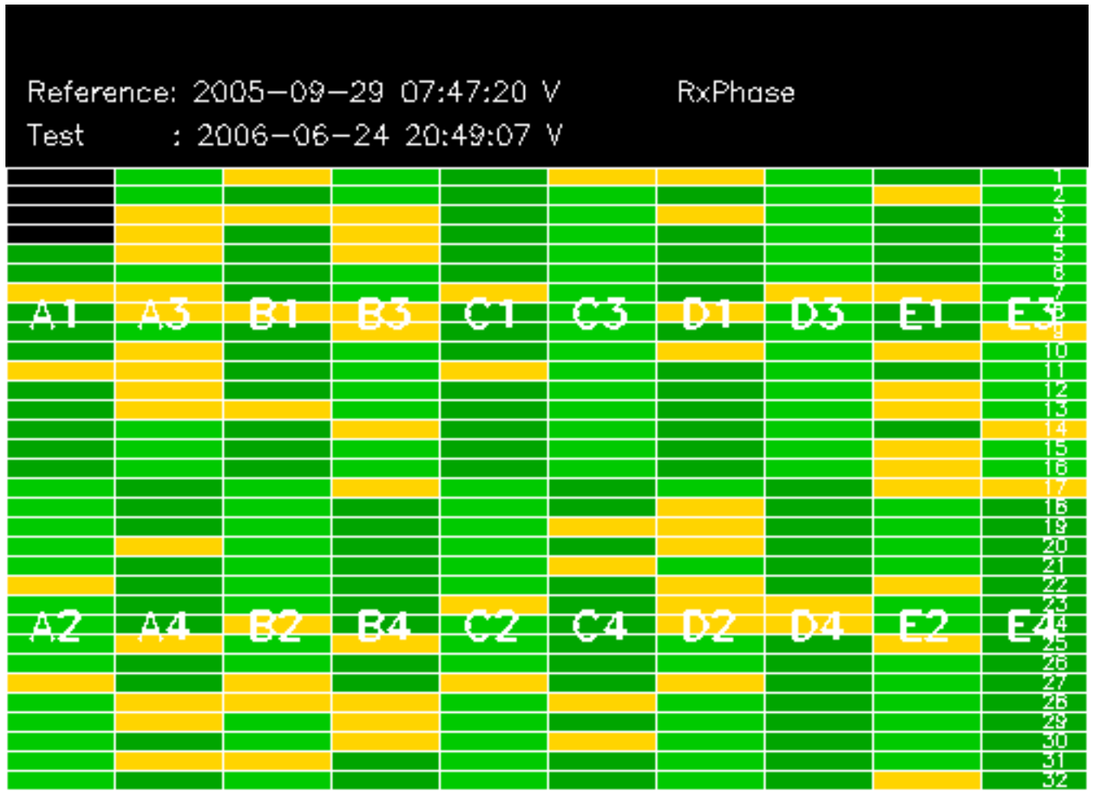

Reference: 2001-02-09 14:08:23 V
Test : 2006-06-24 20:49:07 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-06-24 20:49:07 V
RxPhase
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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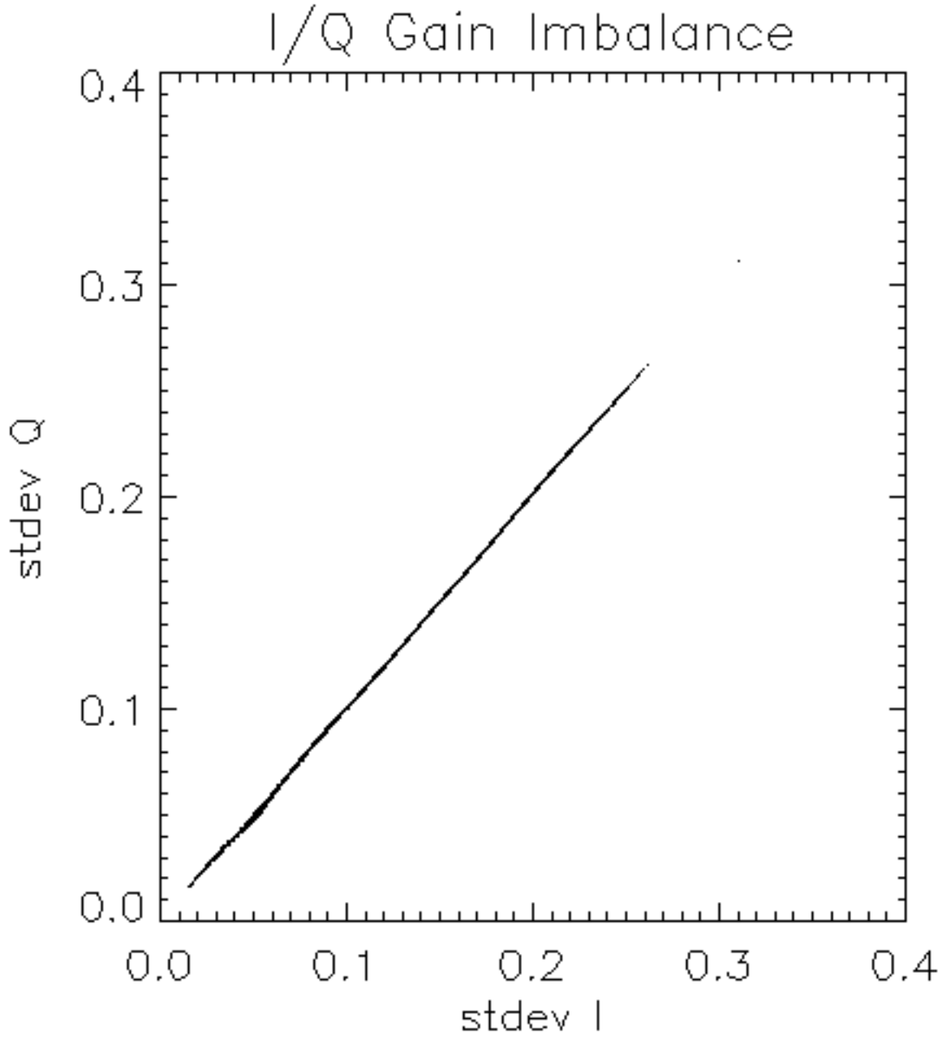
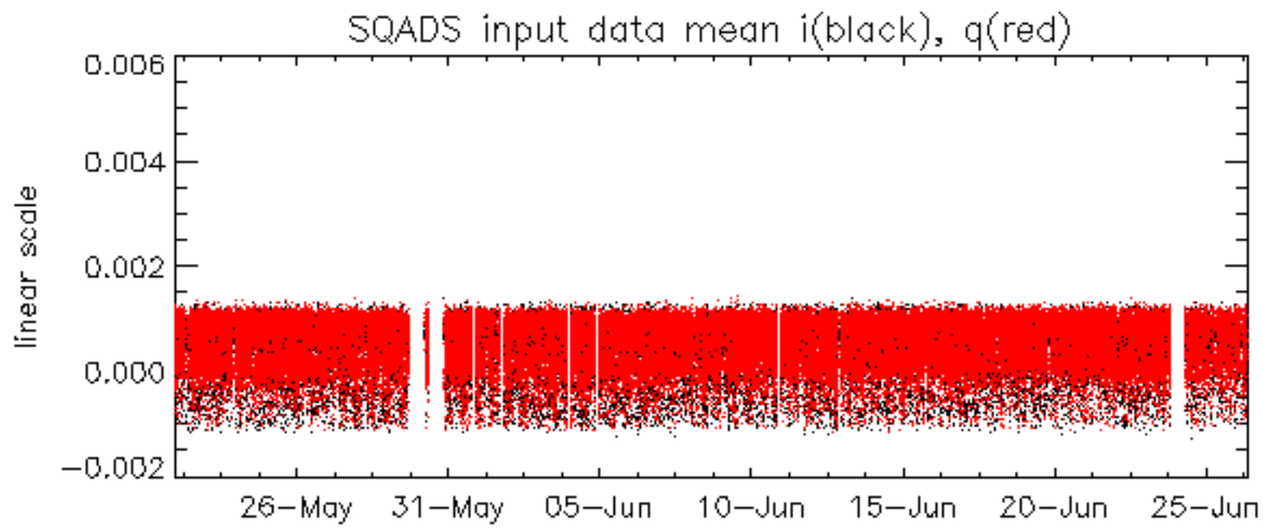
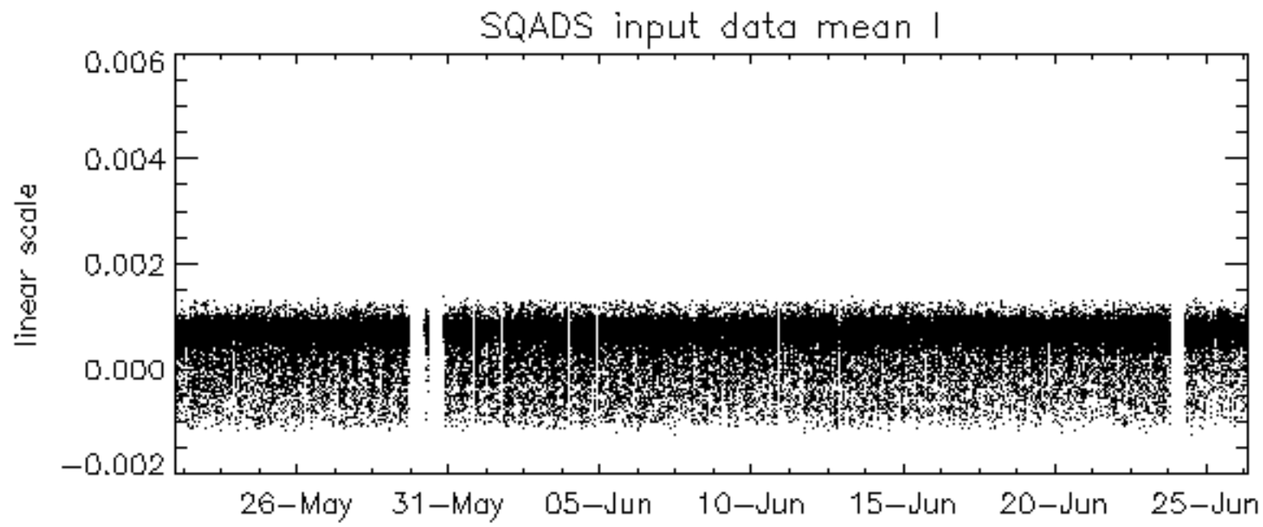
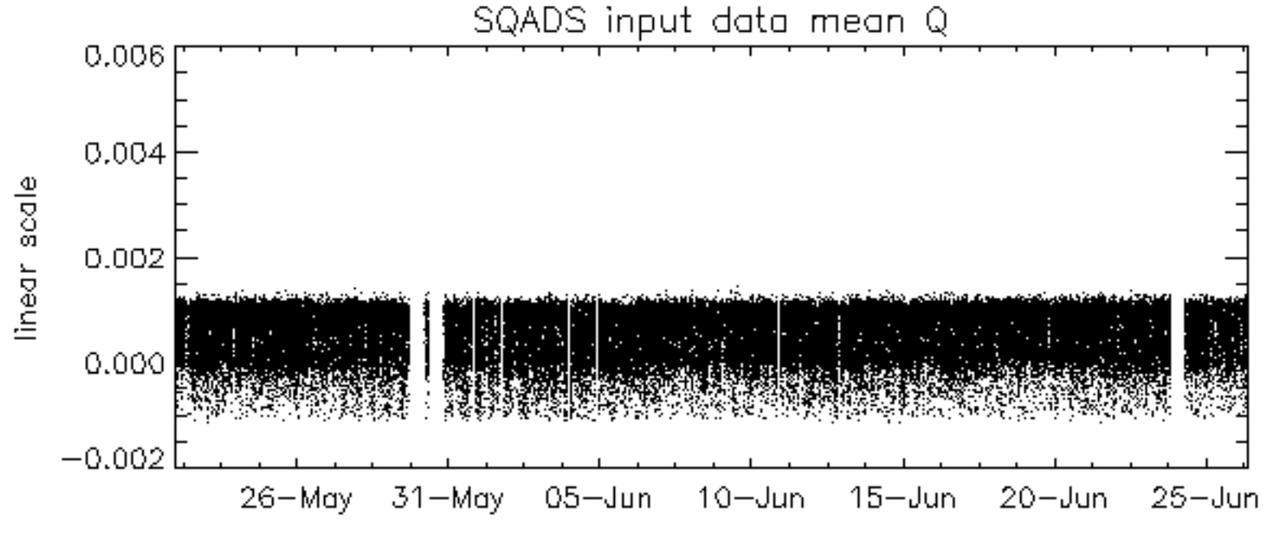
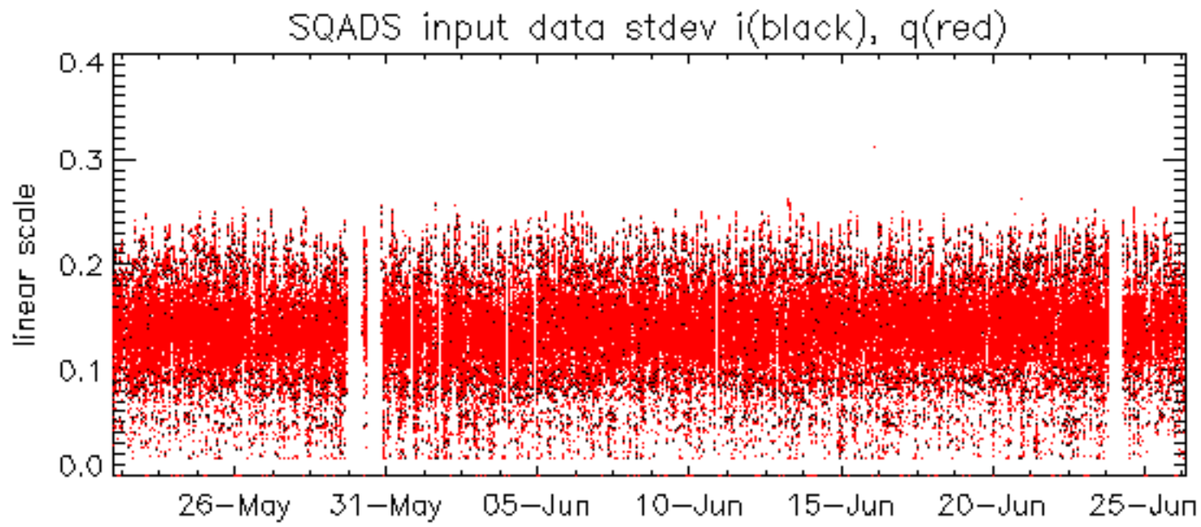
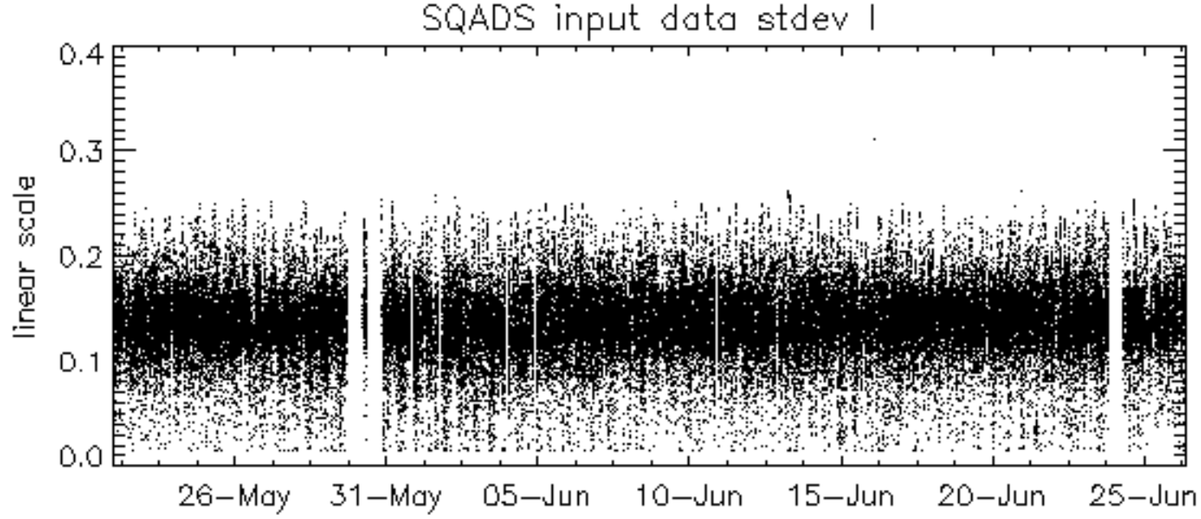

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

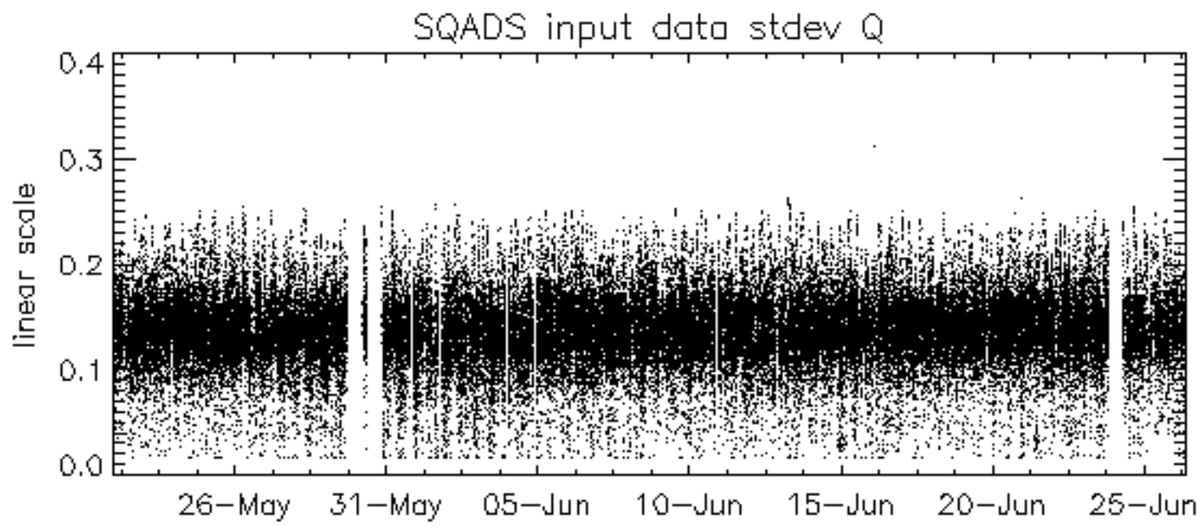

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun
25−Jun

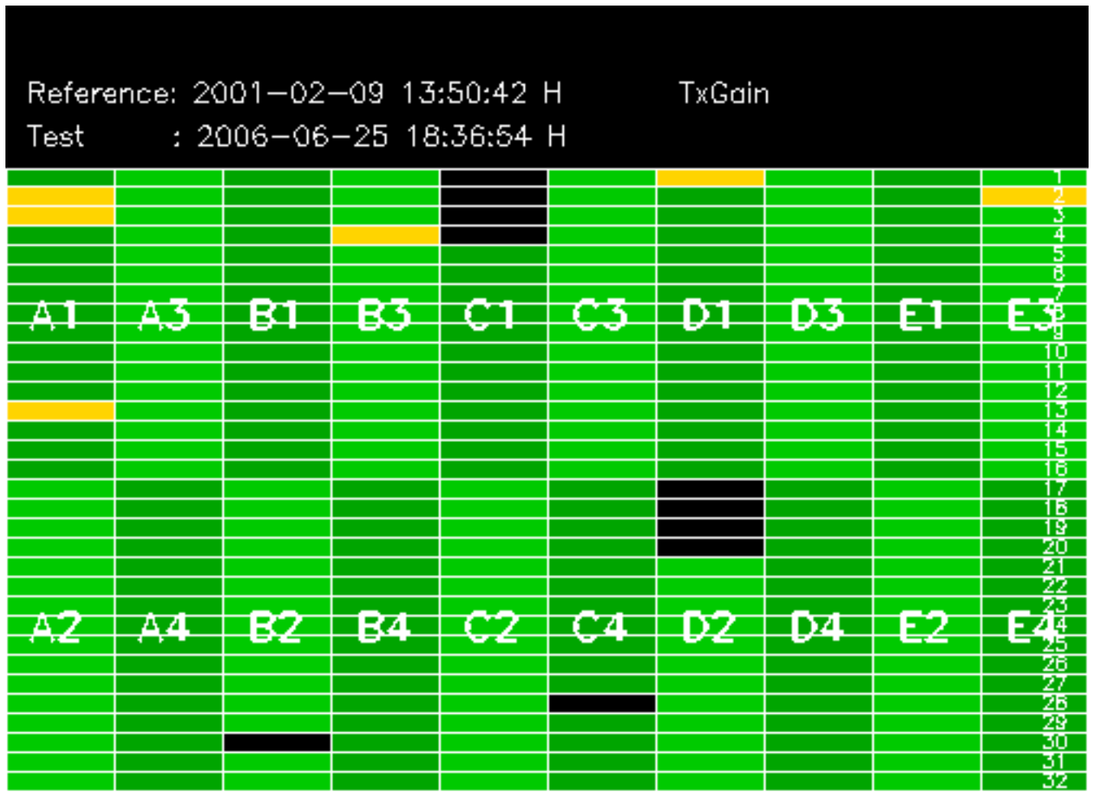

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun
25−Jun


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
E4
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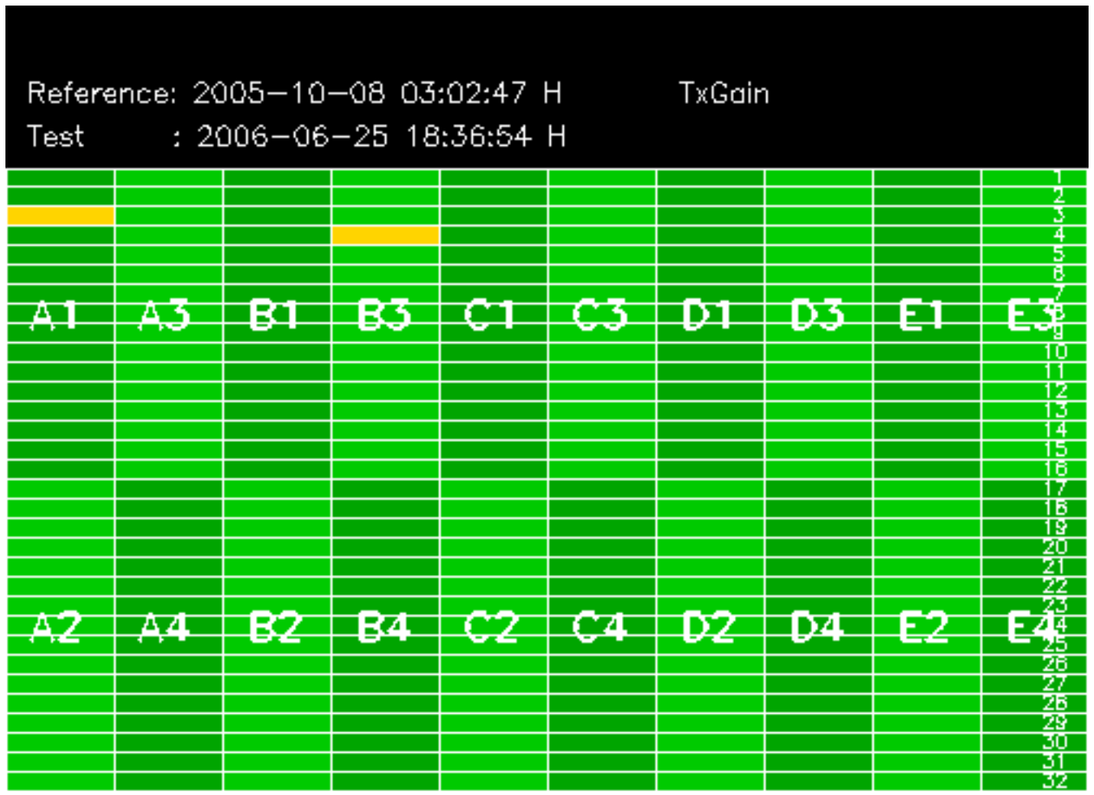
Reference: 2005-10-08 03:02:47 H
Test : 2006-06-25 18:36:54 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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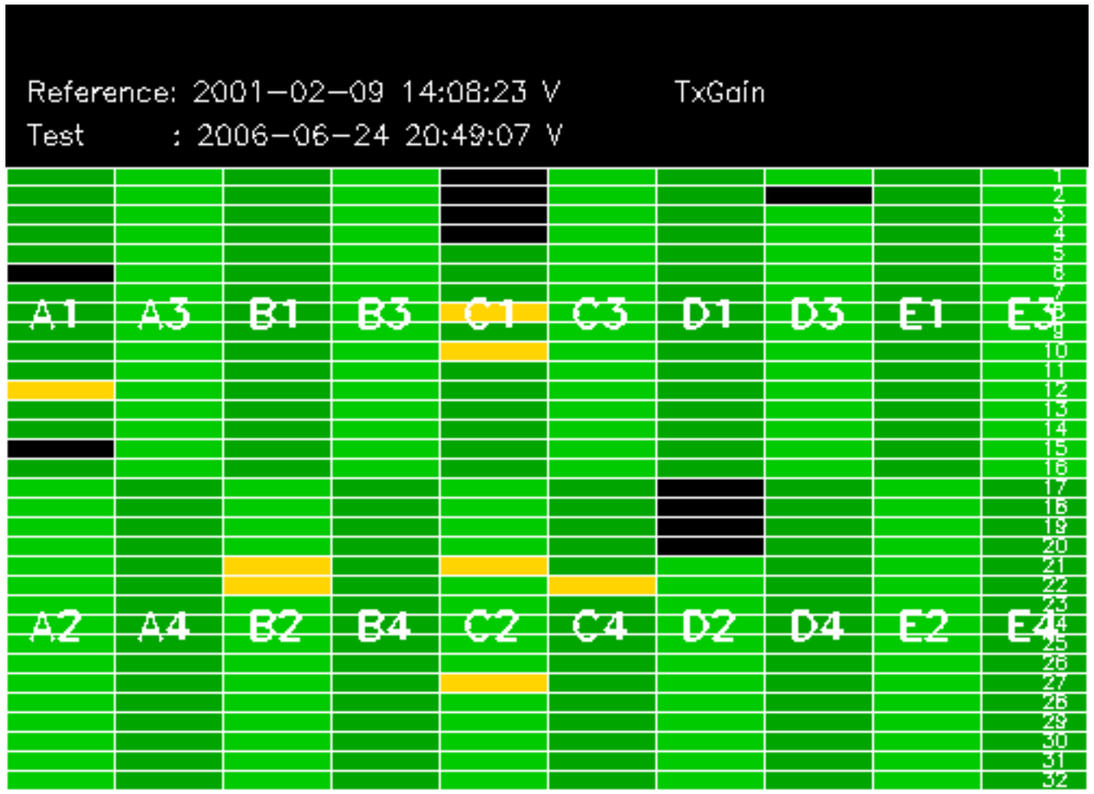
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-24 20:49:07 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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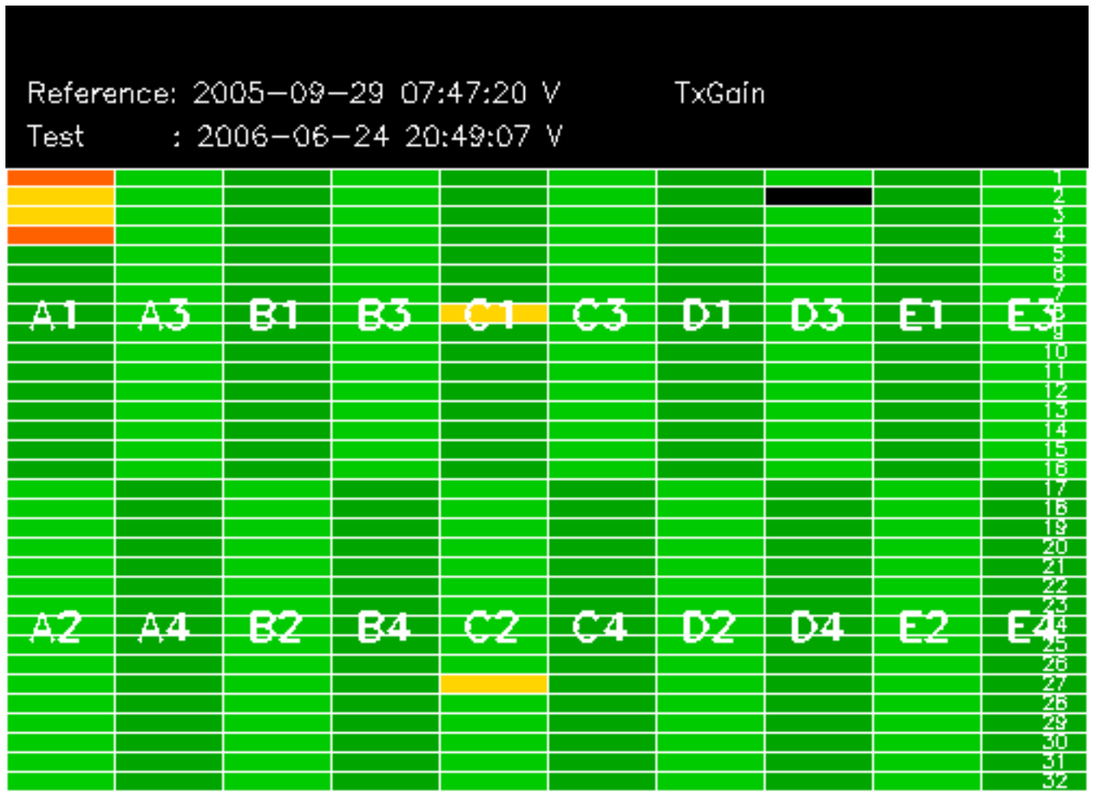
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-24 20:49:07 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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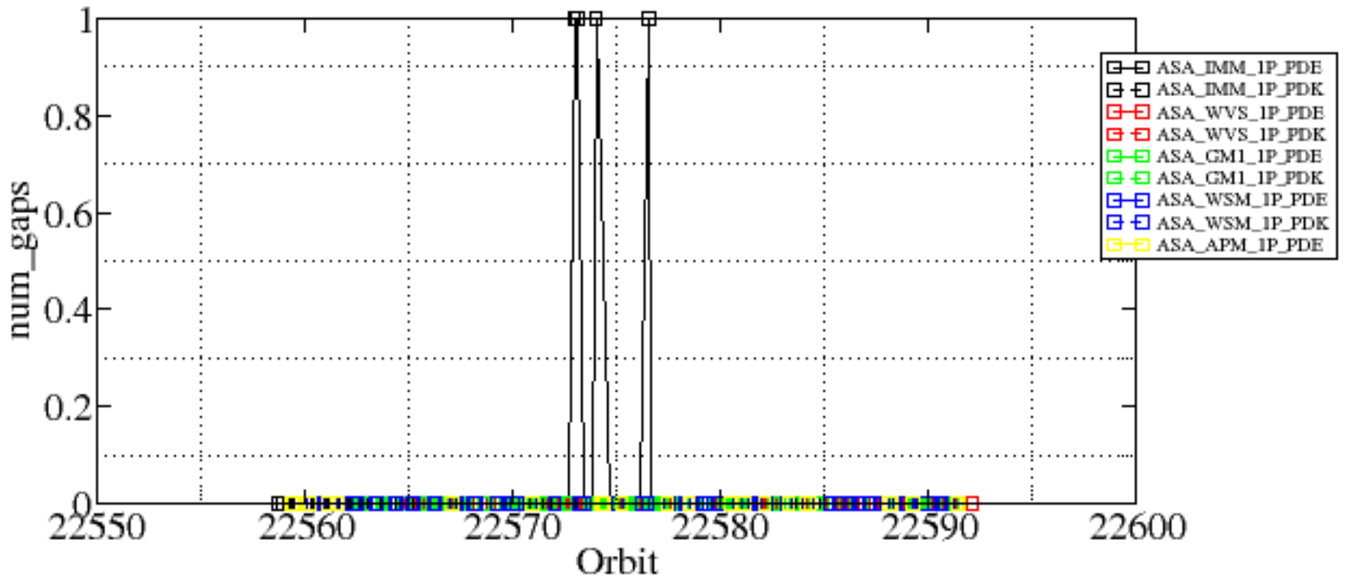
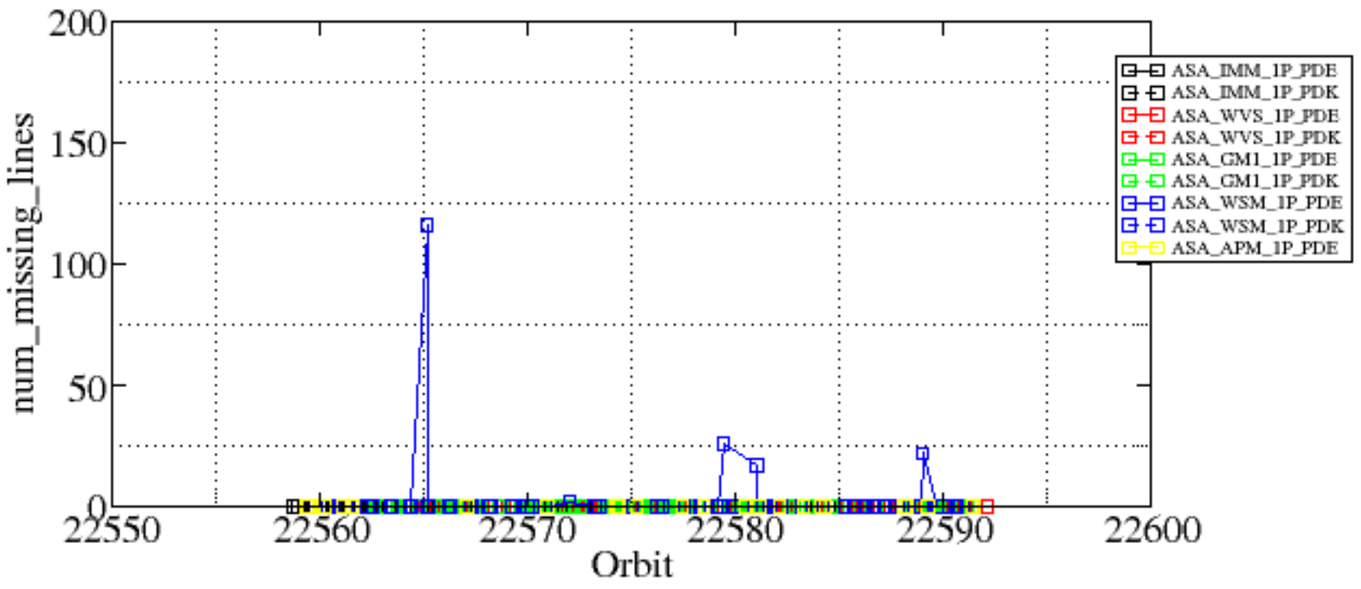
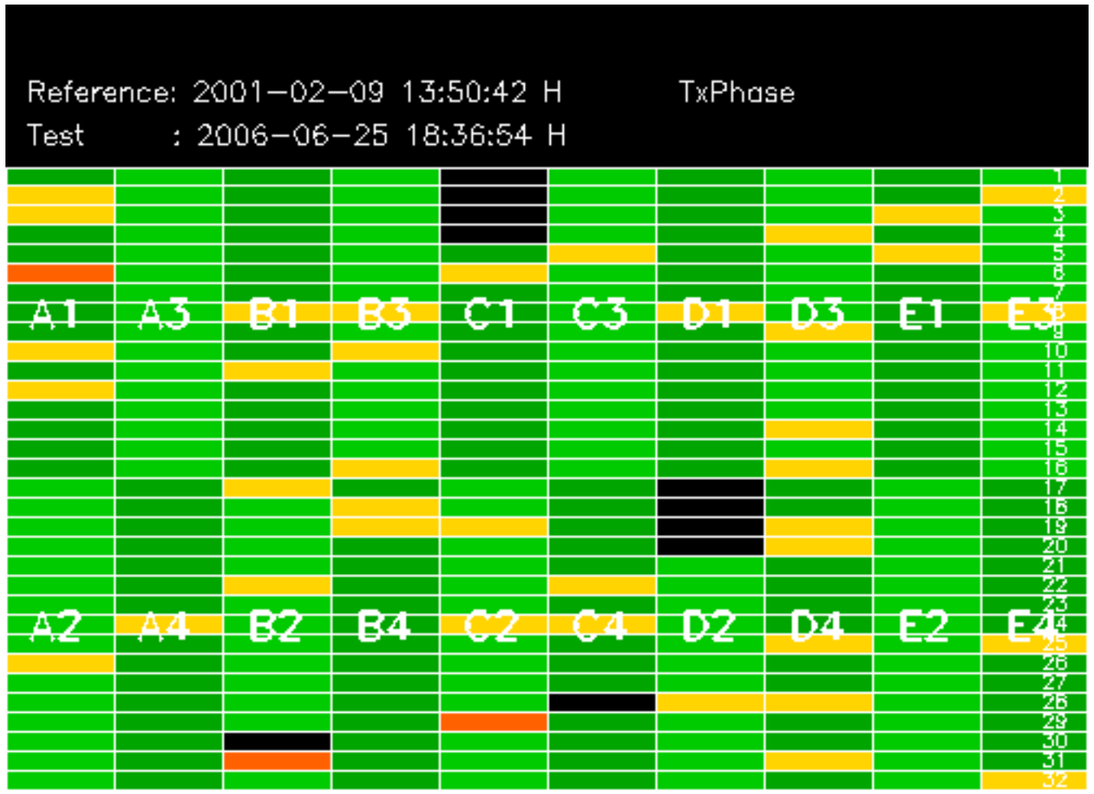
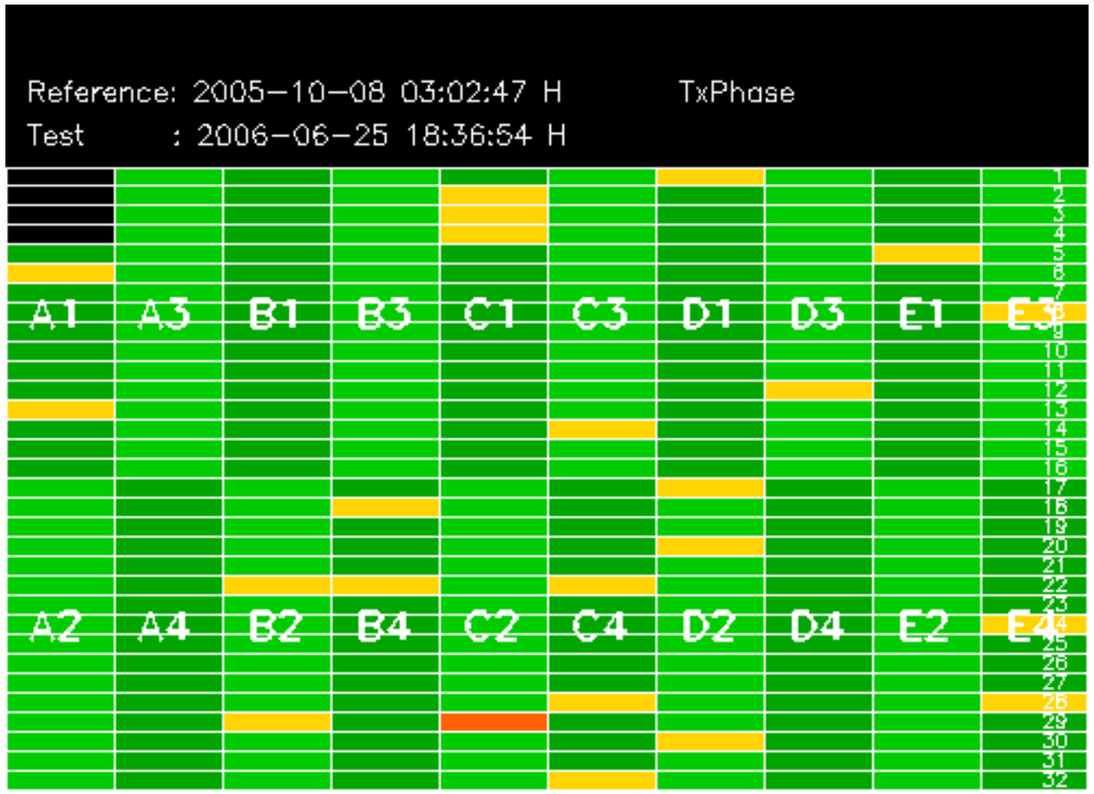
Summary of analysis for the last 3 days 2006062[456]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060625_003958_000001552048_00474_22572_8683.N1 </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_1PNPDE20060624_113644_000000062048_00467_22565_5356.N1 </td> <td>0 </td> <td>116 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060624_230552_000001102048_00474_22572_5298.N1 </td> <td>0 </td> <td>2 </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>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
22550
22560
22570
22580
22590
22600
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
200
150
100
50
0
22550
22560
22570
22580
22590
22600
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
1
2
3
4
5
6
7
8
9
10
11
12
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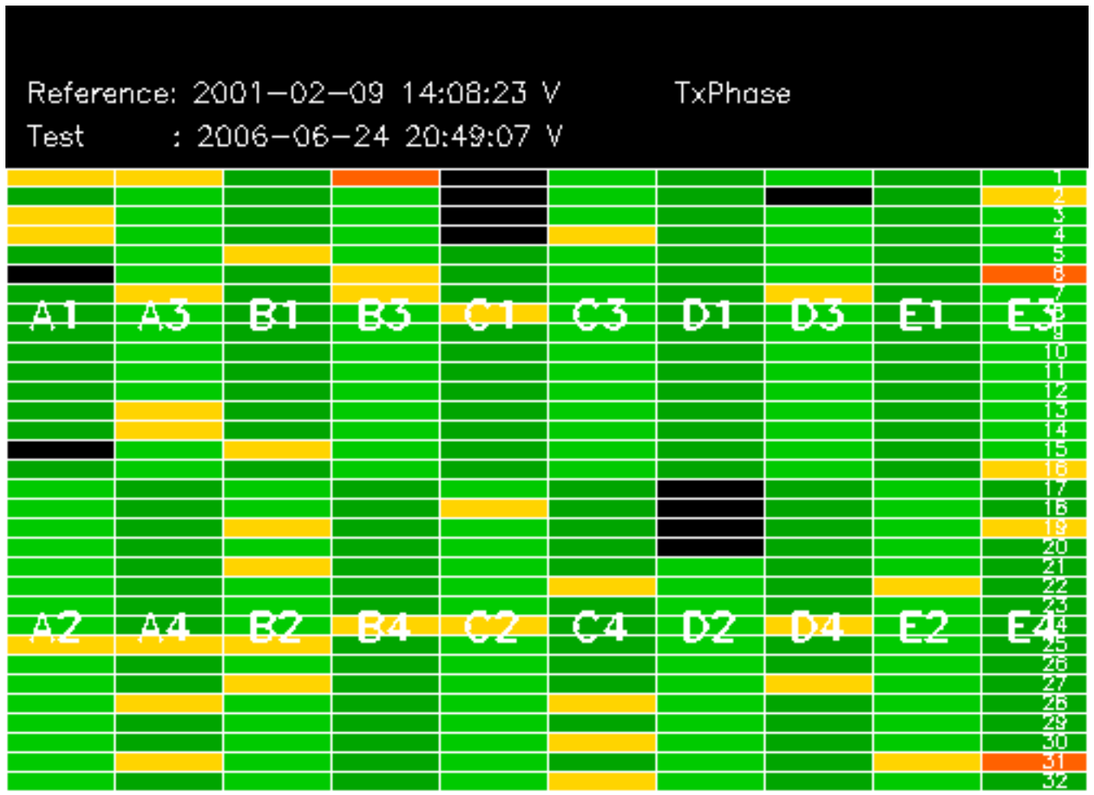
30
31
32


Reference: 2001-02-09 14:08:23 V
Test : 2006-06-24 20:49:07 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
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21
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26
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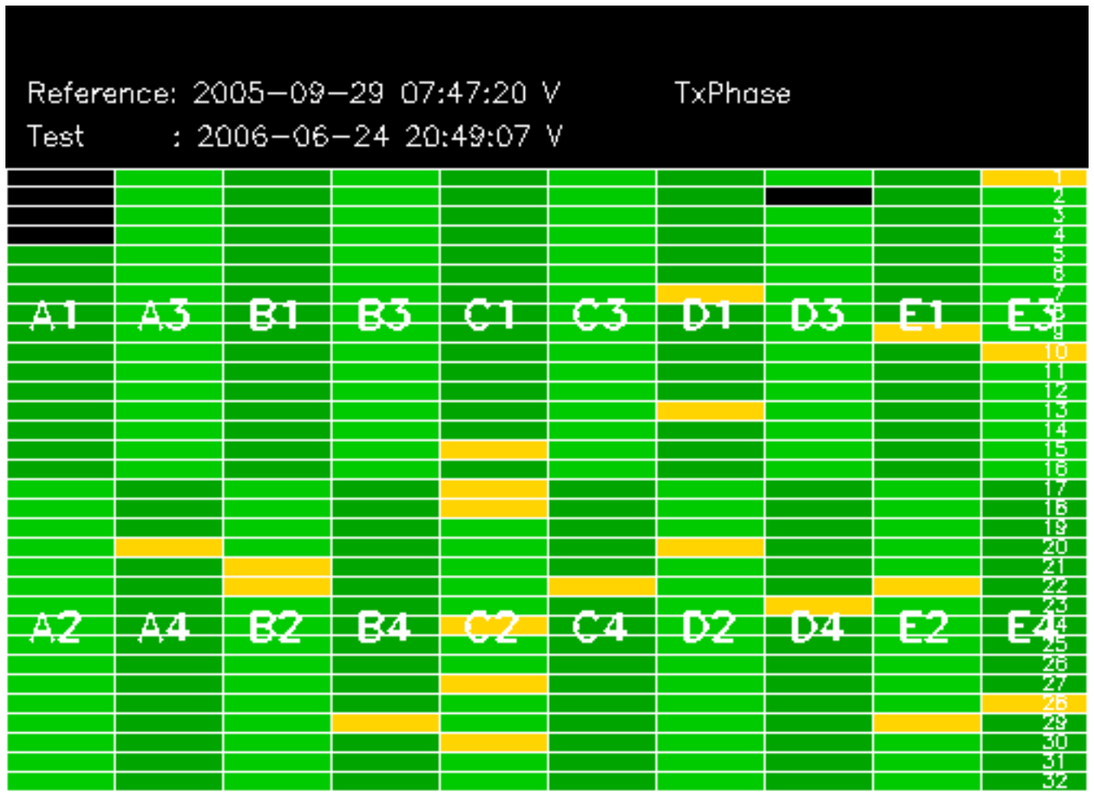
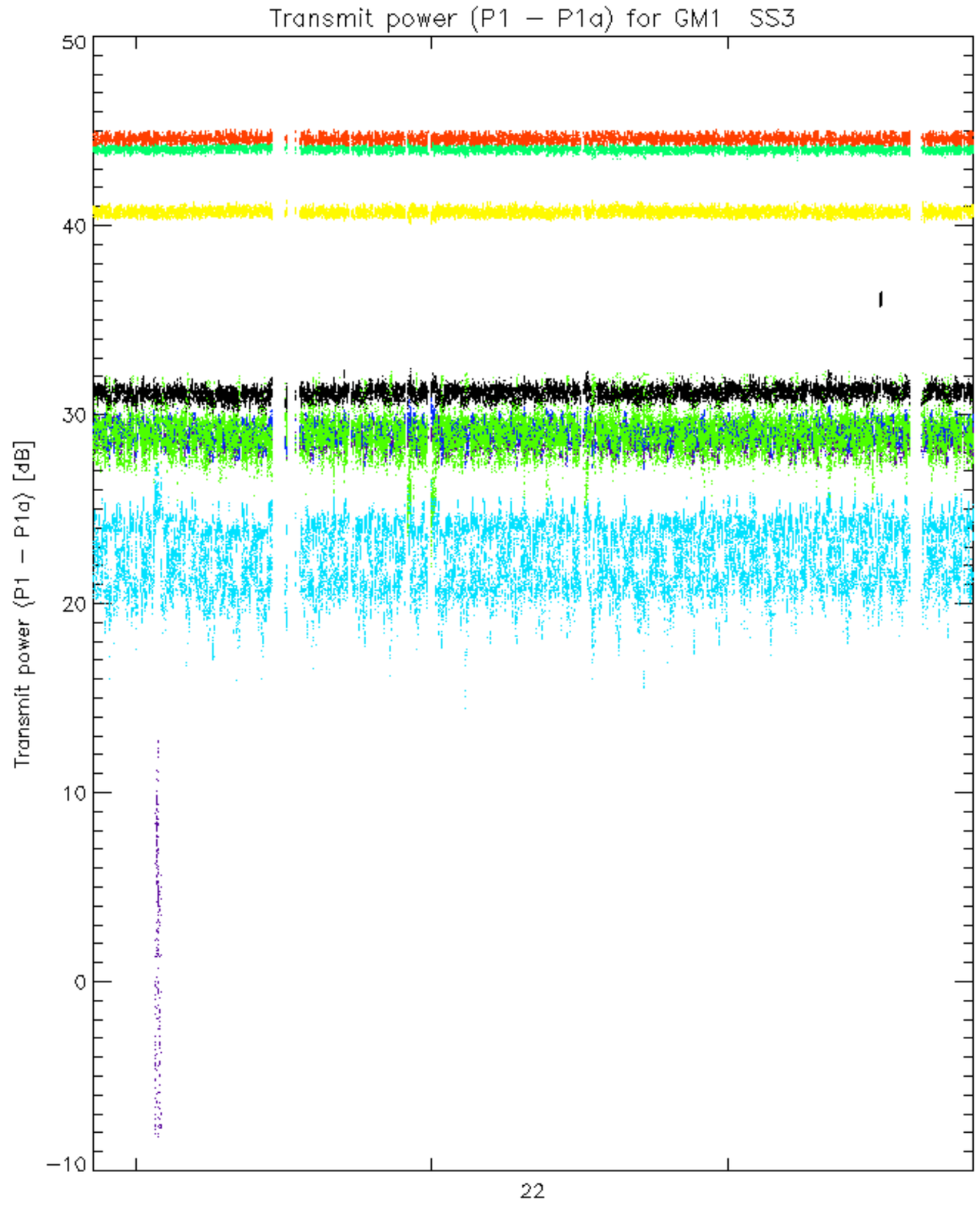
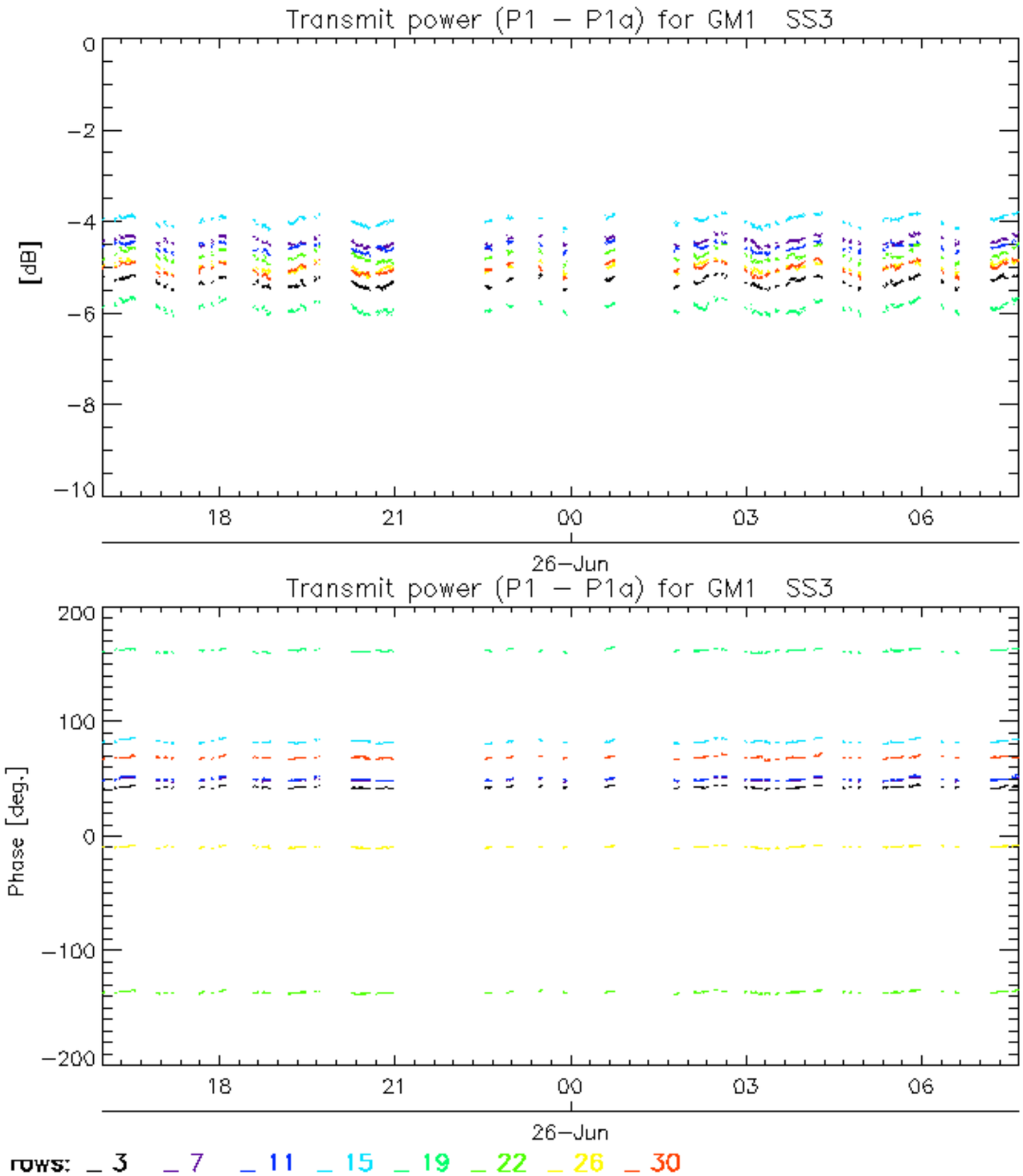
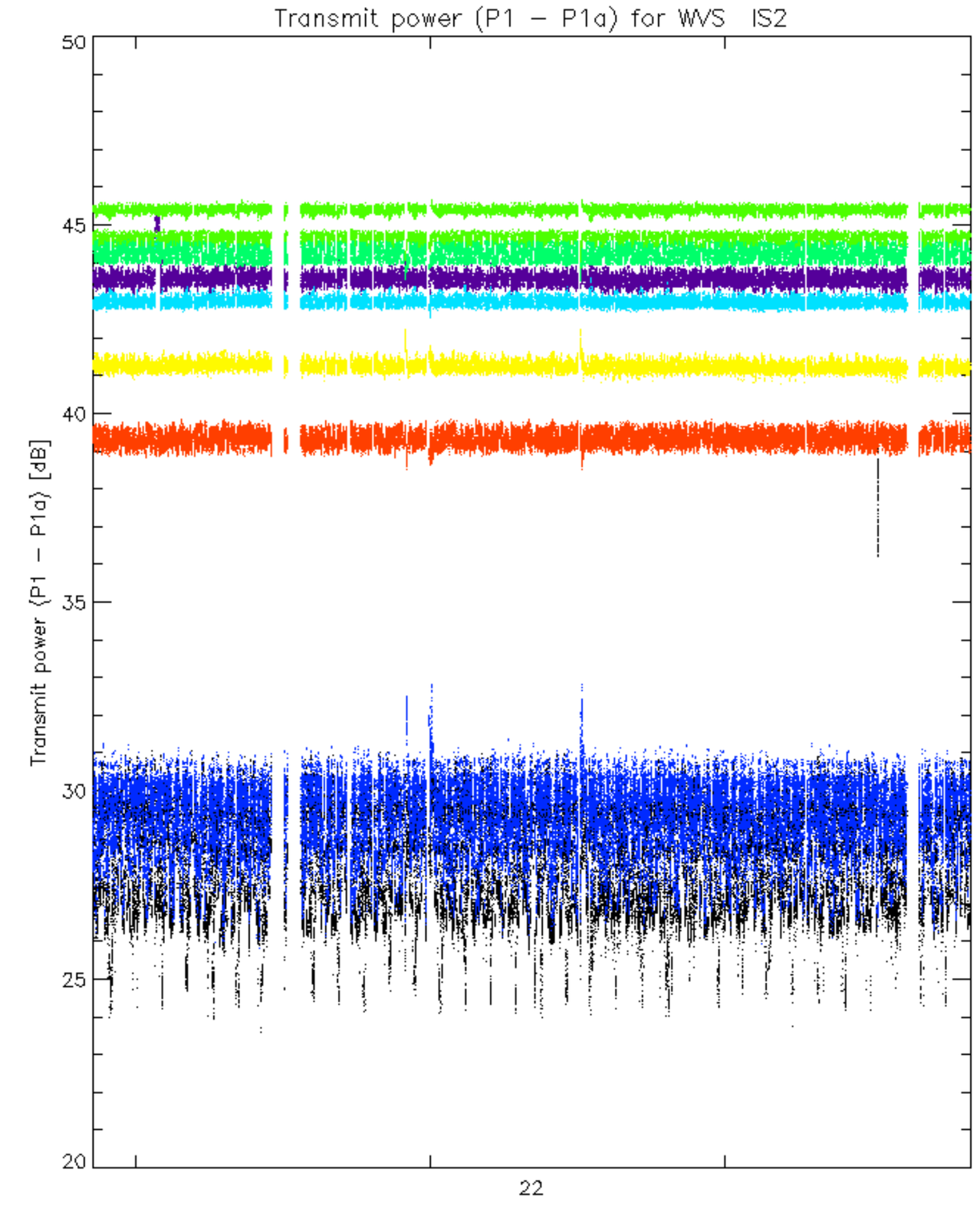
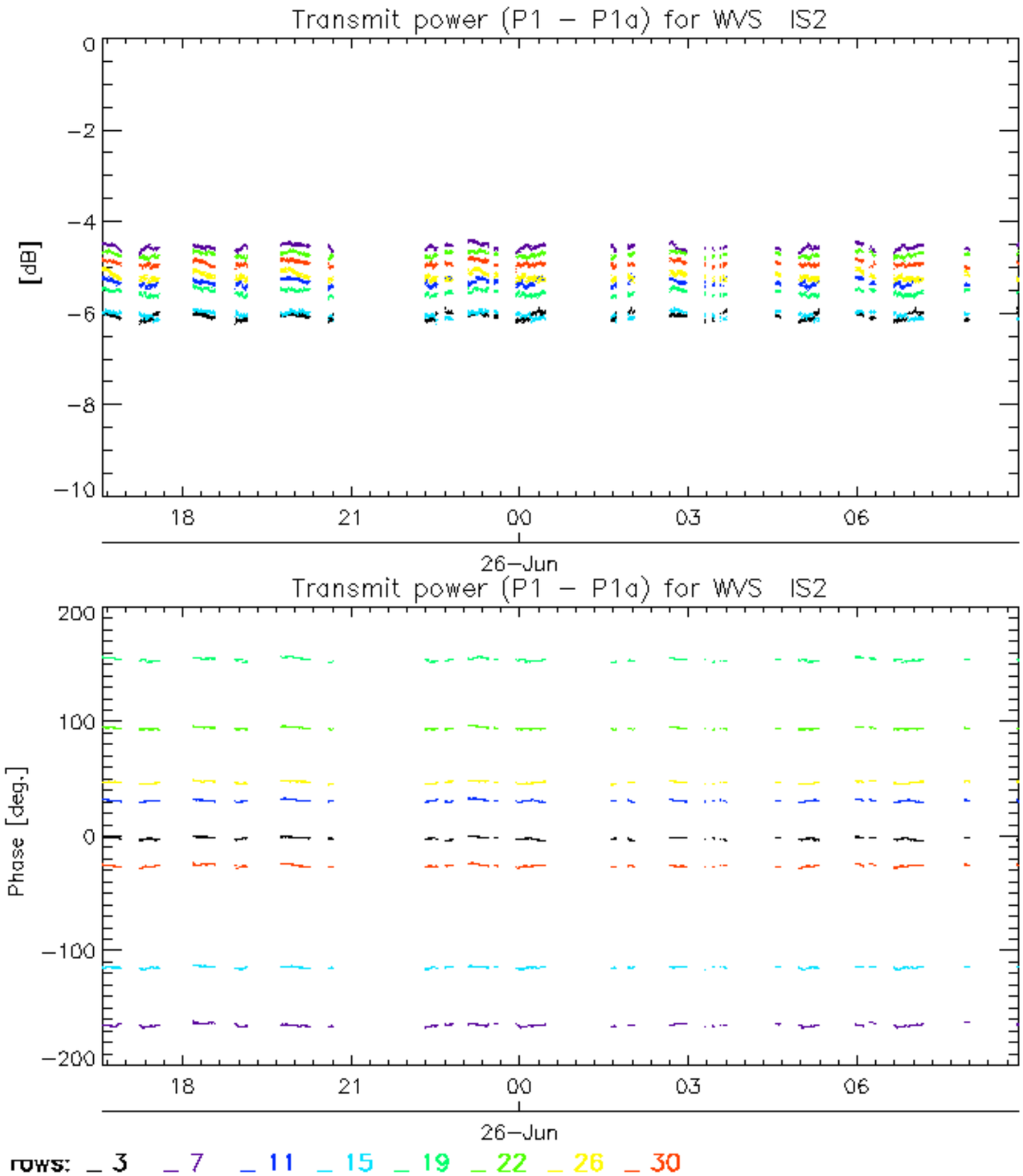
30
31
32


Reference: 2005-09-29 07:47:20 V
Test : 2006-06-24 20:49:07 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Transmit power (P1 – P1a) for GM1 SS3
Transmit power ⟨P1 – P1a⟩ [dB]
50
40
30
20
10
0
−10
22
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
26–Jun
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
26–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
22
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
26–Jun
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
26–Jun
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.