PRELIMINARY REPORT OF 060913

last update on Wed Sep 13 16:35:53 GMT 2006

1. Introduction
2. Summary
   - Instrument Unavailability
   - Auxiliary files used
   - Browse Visual Inspection
   - Module Stepping Results
   - Data Analysis
3. Module Stepping
4. Internal Calibration pulses
   - Daily statistics
   - Cyclic statistics
   - cal pulses monitoring (all rows)
5. Raw Data Statistics
   - raw data mean I and Q
   - raw data stdev I and Q
   - raw gain imbalance
6. TLM analysis
7. Wave Doppler analysis
   - Unbiased Doppler Error for WVS
   - Absolute Doppler for WVS
   - Doppler evolution versus ANX for WVS
   - Unbiased Doppler Error for GM1
   - Absolute Doppler for GM1
   - Doppler evolution versus ANX for GM1

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 2006-09-12 00:00:00 to 2006-09-13 16:35:53

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

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	24	39	5	9	1
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	24	39	5	9	1
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	24	39	5	9	1
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	24	39	5	9	1

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	17	37	23	9	66
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	17	37	23	9	66
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	17	37	23	9	66
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	17	37	23	9	66

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	20060912 085027
H	20060907 062647

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	-3.939933	0.009662	0.017127
7	P1	-3.049223	0.011490	-0.025947
11	P1	-4.057546	0.016761	0.022952
15	P1	-6.179783	0.014925	0.011643
19	P1	-3.504377	0.049941	-0.128395
22	P1	-4.565498	0.026688	0.010267
26	P1	-3.936181	0.020195	-0.040807
30	P1	-5.785806	0.148587	-0.112285
3	P1	-16.568689	0.258962	-0.144986
7	P1	-16.790051	0.666769	-0.704153
11	P1	-16.807444	0.327794	0.057593
15	P1	-12.940748	0.106216	0.206635
19	P1	-14.598421	0.447729	-0.278685
22	P1	-15.752947	0.563074	0.400580
26	P1	-15.193459	0.209718	-0.078641
30	P1	-16.953968	0.410390	0.235923

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.837698	0.083494	0.108564
7	P2	-21.861383	0.097704	-0.002953
11	P2	-15.744998	0.109600	-0.012606
15	P2	-7.092484	0.097829	0.033208
19	P2	-9.112286	0.091172	0.003720
22	P2	-18.122639	0.085591	0.047420
26	P2	-16.398829	0.092487	-0.005736
30	P2	-19.469961	0.090350	0.028113

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.174077	0.004271	0.001598
7	P3	-8.174077	0.004271	0.001598
11	P3	-8.174077	0.004271	0.001598
15	P3	-8.174077	0.004271	0.001598
19	P3	-8.174077	0.004271	0.001598
22	P3	-8.174077	0.004271	0.001598
26	P3	-8.174137	0.004270	0.001884
30	P3	-8.174137	0.004270	0.001884

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	-3.841101	0.023260	-0.013370
7	P1	-2.445954	0.175059	-0.228572
11	P1	-2.876555	0.033433	-0.020658
15	P1	-3.644661	0.035903	-0.045445
19	P1	-3.456263	0.082034	-0.094559
22	P1	-5.093098	0.036920	-0.051784
26	P1	-5.867846	0.030518	0.053369
30	P1	-5.196343	0.086174	-0.040897
3	P1	-11.630558	0.072743	-0.000400
7	P1	-9.910309	0.196220	-0.203748
11	P1	-10.324600	0.082955	-0.087681
15	P1	-10.860033	0.181220	-0.026223
19	P1	-15.673669	3.662013	-0.568633
22	P1	-20.831978	1.733122	0.250494

26	P1	-15.994278	0.414712	0.350989
30	P1	-18.015625	0.838041	-0.184416

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.428019	0.077115	0.105358
7	P2	-22.209738	0.203117	0.097032
11	P2	-10.907189	0.059078	0.079134
15	P2	-4.866548	0.040587	0.072106
19	P2	-6.849538	0.041249	0.044406
22	P2	-8.165934	0.066163	0.091315
26	P2	-24.160496	0.134696	0.011099
30	P2	-21.960415	0.081026	0.018269

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.018040	0.003705	0.000114
7	P3	-8.017898	0.003705	0.000274
11	P3	-8.017777	0.003716	0.000453
15	P3	-8.017876	0.003722	0.000902
19	P3	-8.017990	0.003732	0.000879
22	P3	-8.018051	0.003696	0.000515
26	P3	-8.017946	0.003711	-0.000087
30	P3	-8.017890	0.003707	0.000046

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	0.000547214
	stdev	1.79373e-07
MEAN Q	mean	0.000526561
	stdev	2.18062e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.135794
	stdev	0.00110244
STDEV Q	mean	0.136138
	stdev	0.00111877

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006091[123]
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_1PNPDE20060912_192317_000000512051_00113_23714_5669.N1	1	0
ASA_IMM_1PNPDE20060912_201158_000000372051_00114_23715_5671.N1	0	3
ASA_WSM_1PNPDE20060912_000911_000003242051_00102_23703_1588.N1	0	34
ASA_WSM_1PNPDE20060912_233734_000003242051_00116_23717_1761.N1	0	34

7 - Doppler Analysis

Preliminary report.The data is not yet controled

7.1 - Unbiased Doppler Error for WVS

Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

7.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler

Acsending

Descending

7.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX


7.4 - Unbiased Doppler Error for GM1

Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

7.5 - Absolute Doppler for GM1

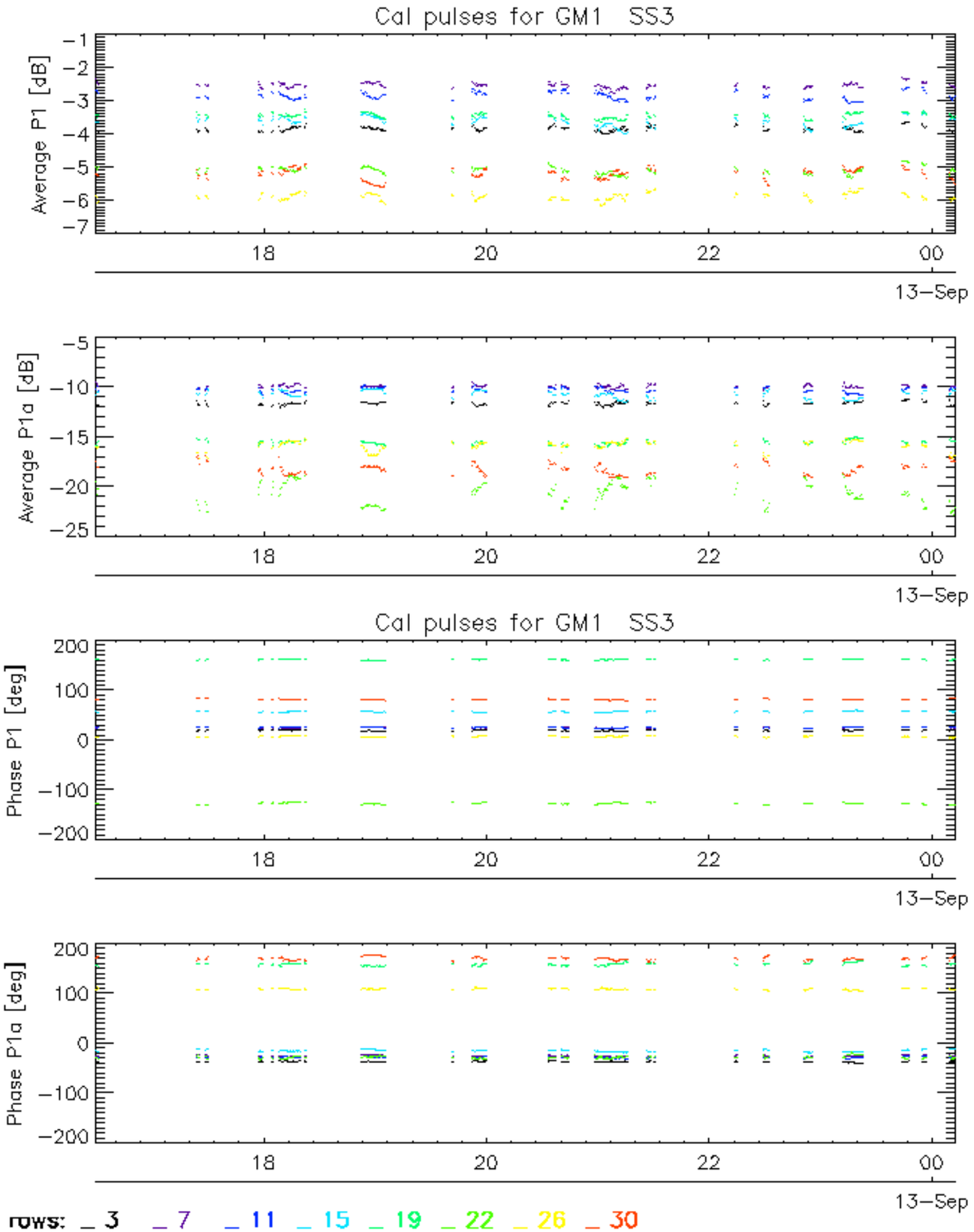
Evolution of Absolute Doppler

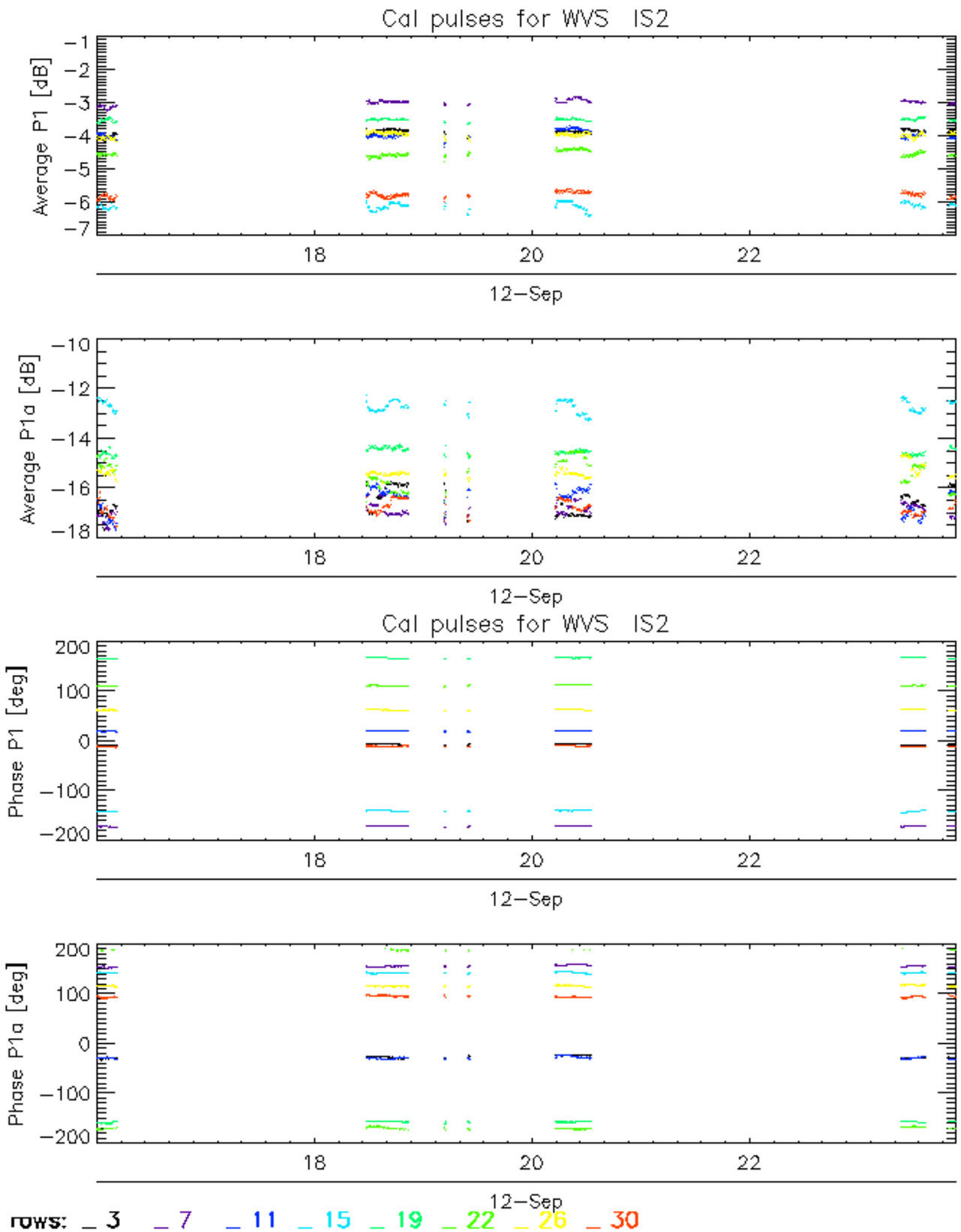
Acsending

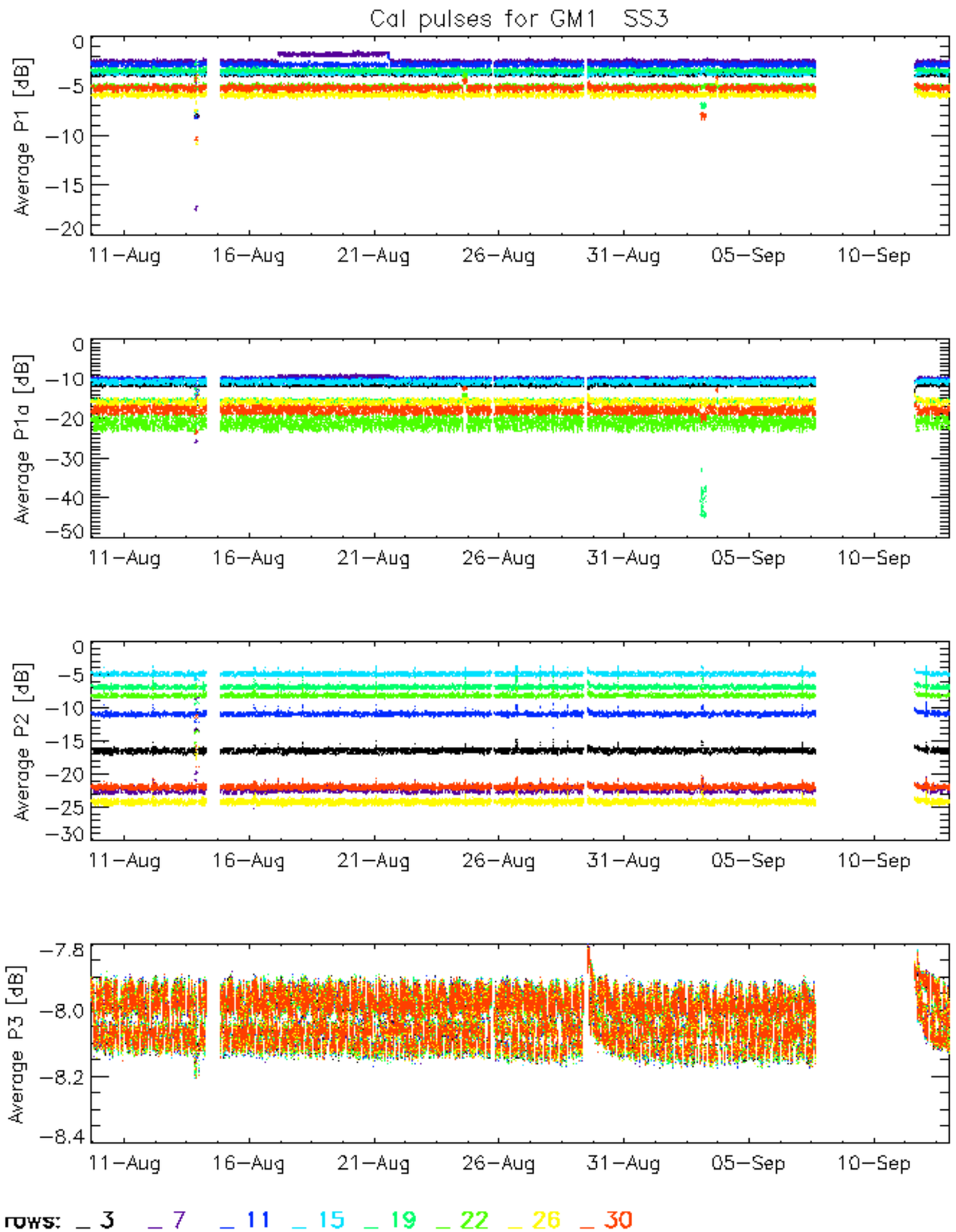
Descending

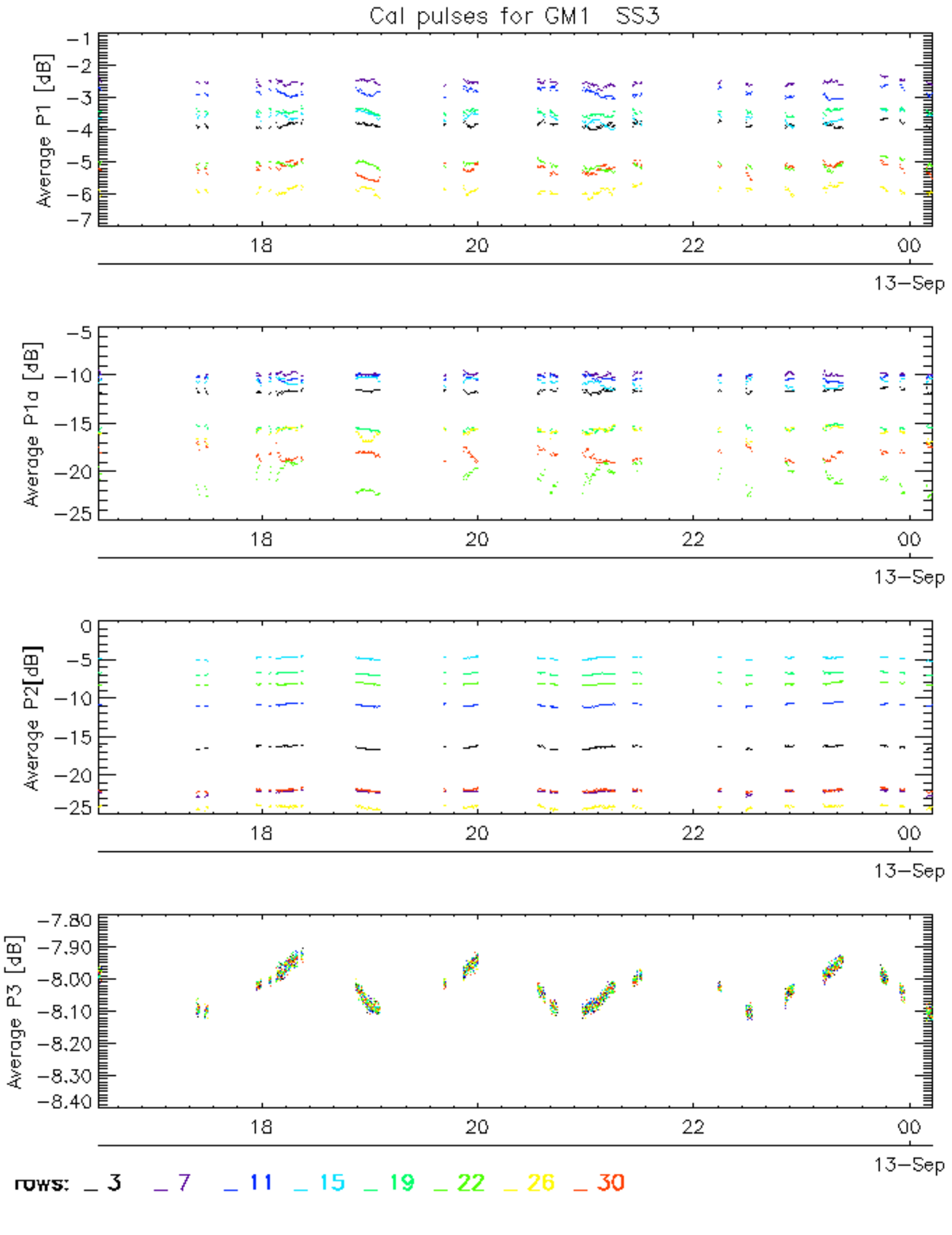
7.6 - Doppler evolution versus ANX for GM1

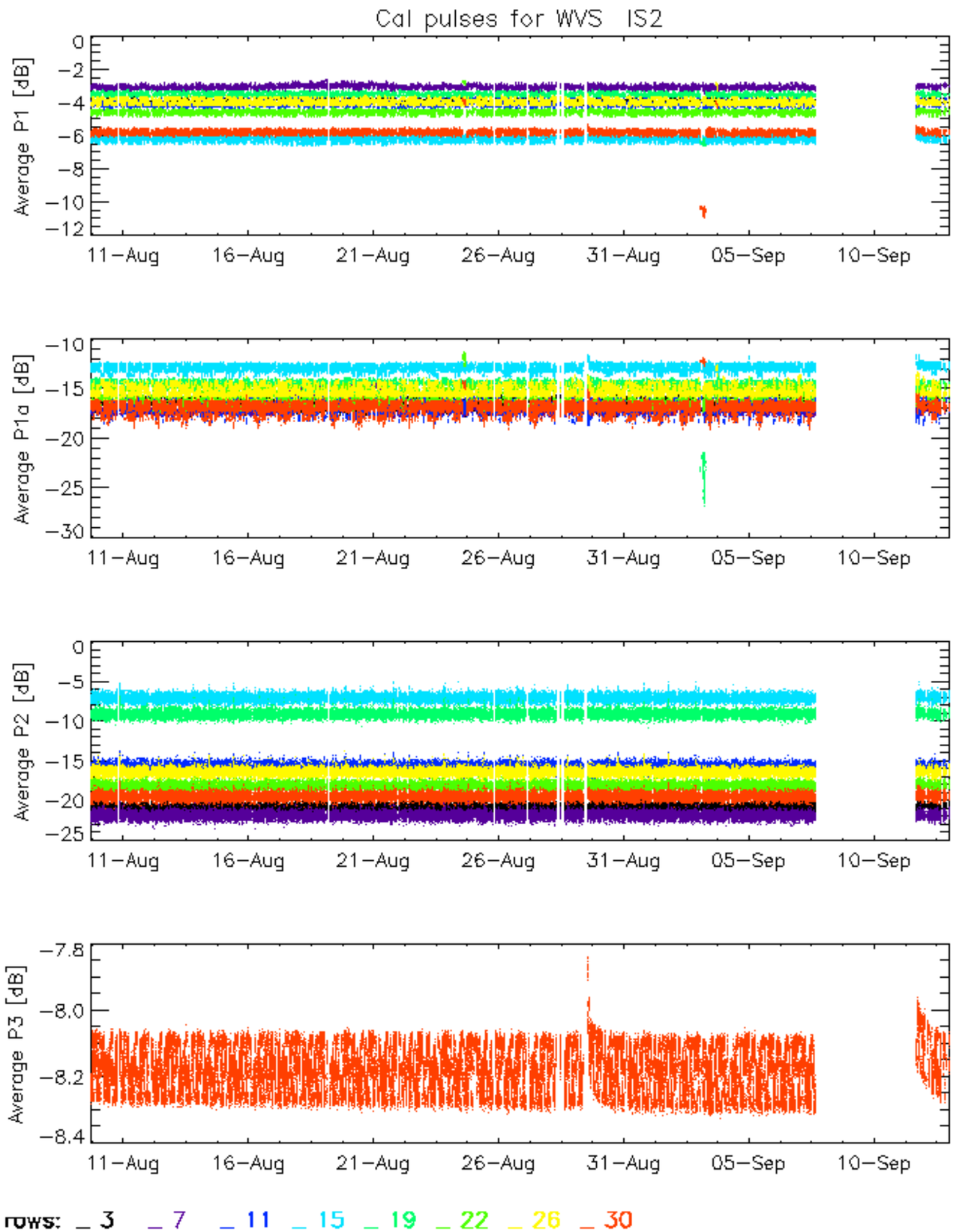
Evolution Doppler error versus ANX

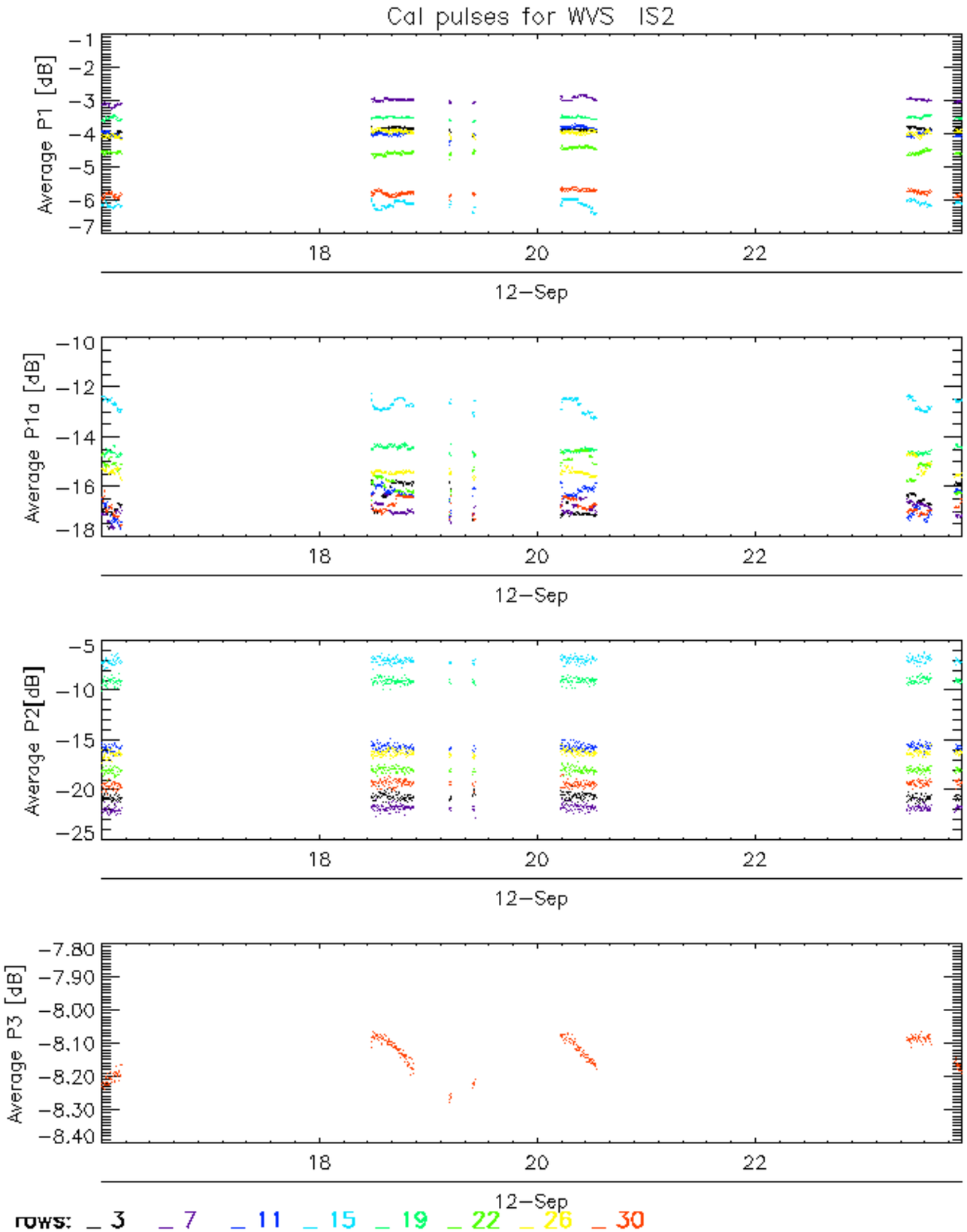


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
20
22
00
13−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
18
20
22
00
13−Sep
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
20
22
00
13−Sep
Phase P1a [deg]
200
100
0
−100
−200
18
20
22
00
13−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _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


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


Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
Average P1a [dB]
0
−10
−20
−30
−40
−50
Average P2 [dB]
0
−5
−10
−15
−20
−25
−30
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
11−Aug
16−Aug
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

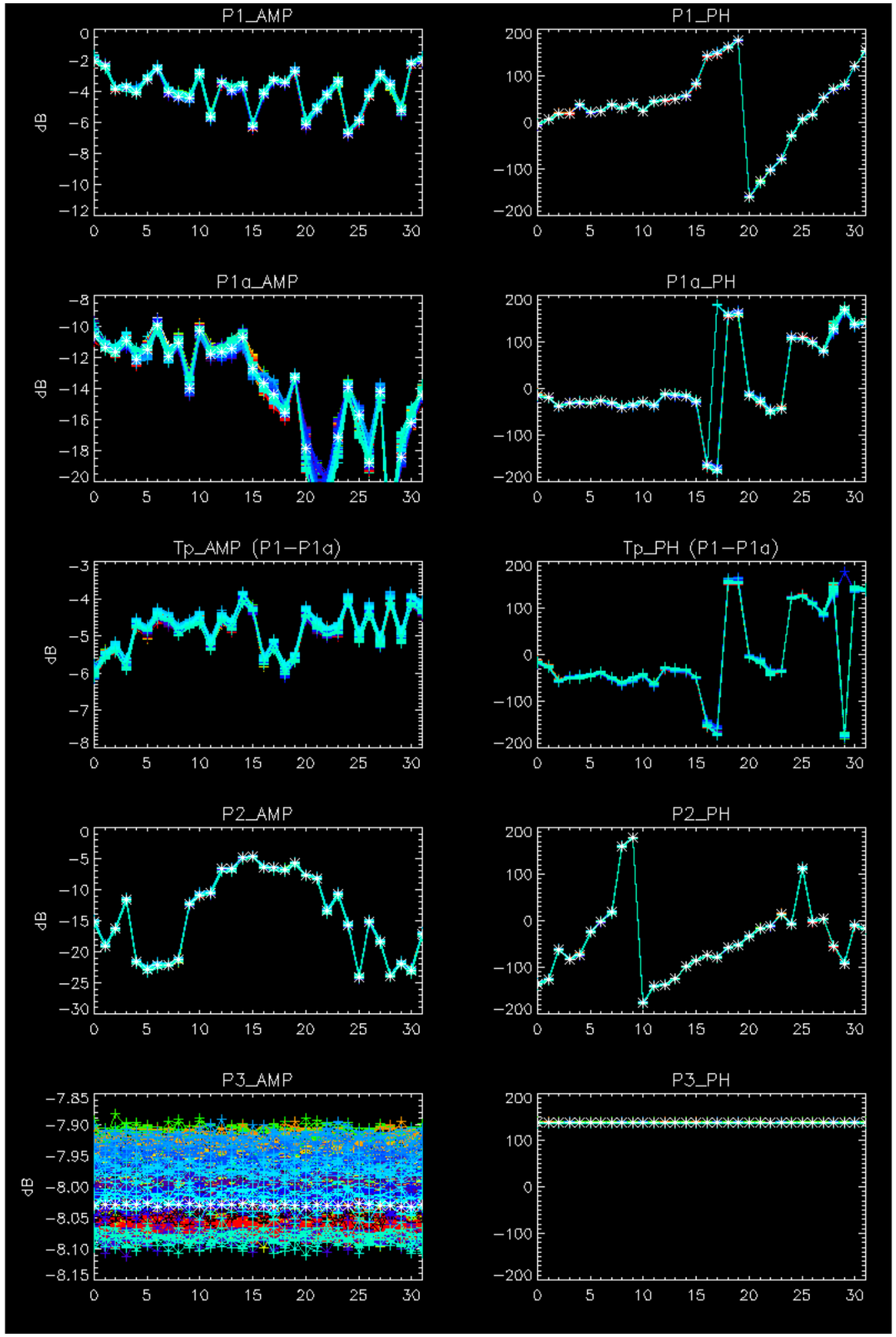

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
20
22
00
13−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
18
20
22
00
13−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
18
20
22
00
13−Sep
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
20
22
00
13−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _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

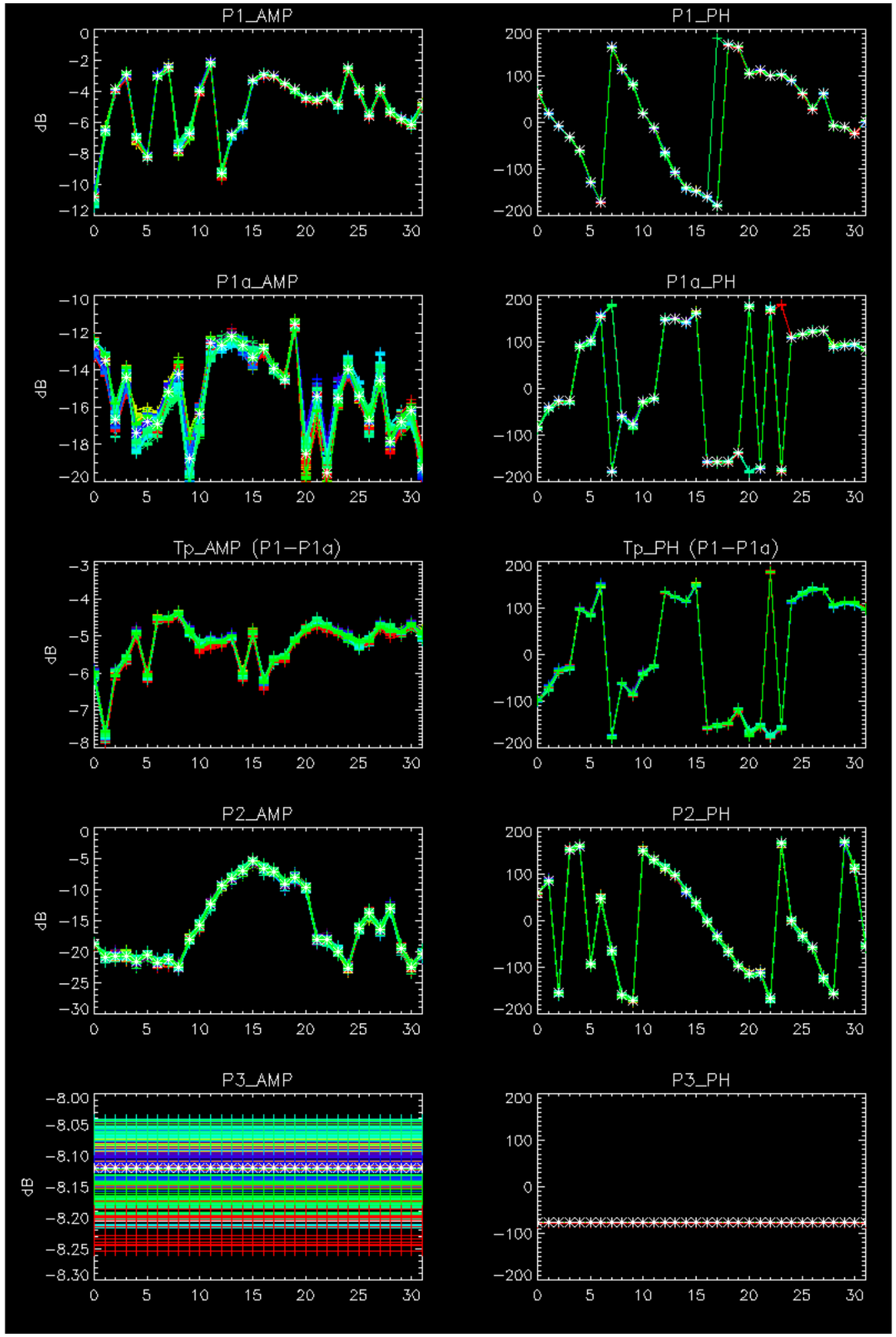

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
11−Aug
16−Aug
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
Average P1a [dB]
−10
−15
−20
−25
−30
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30


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

No anomalies observed on available browse products

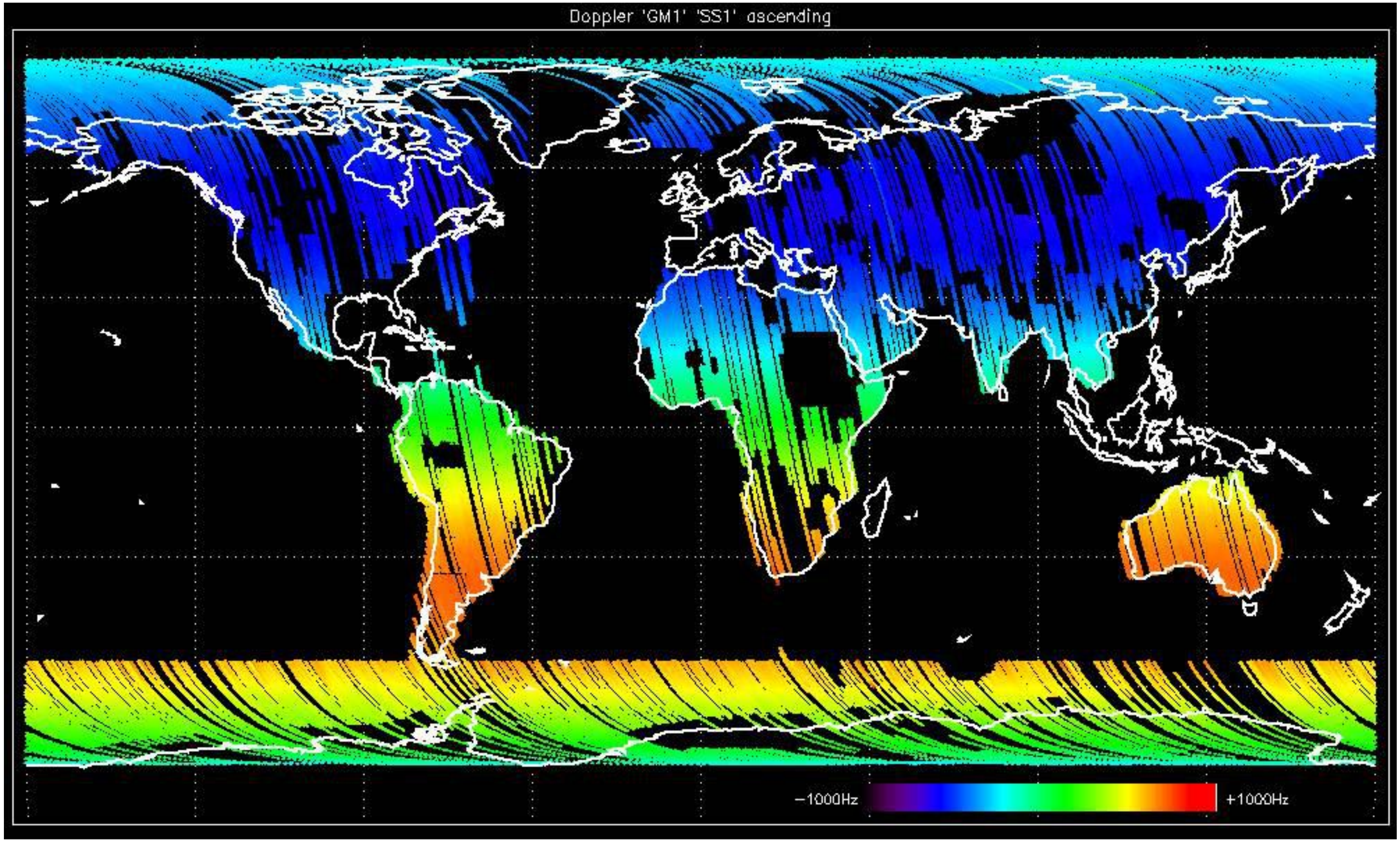
No anomalies observed.

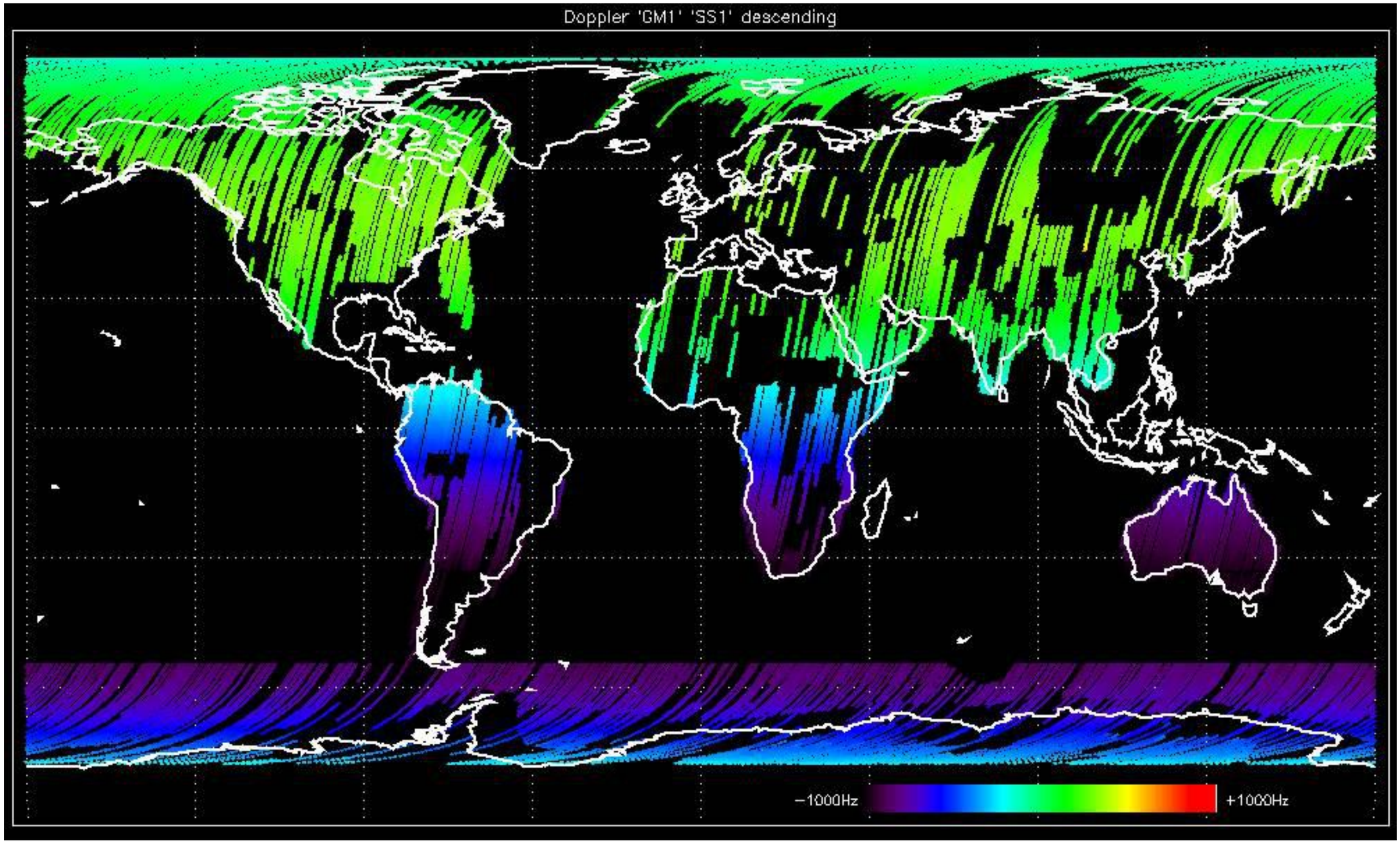

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

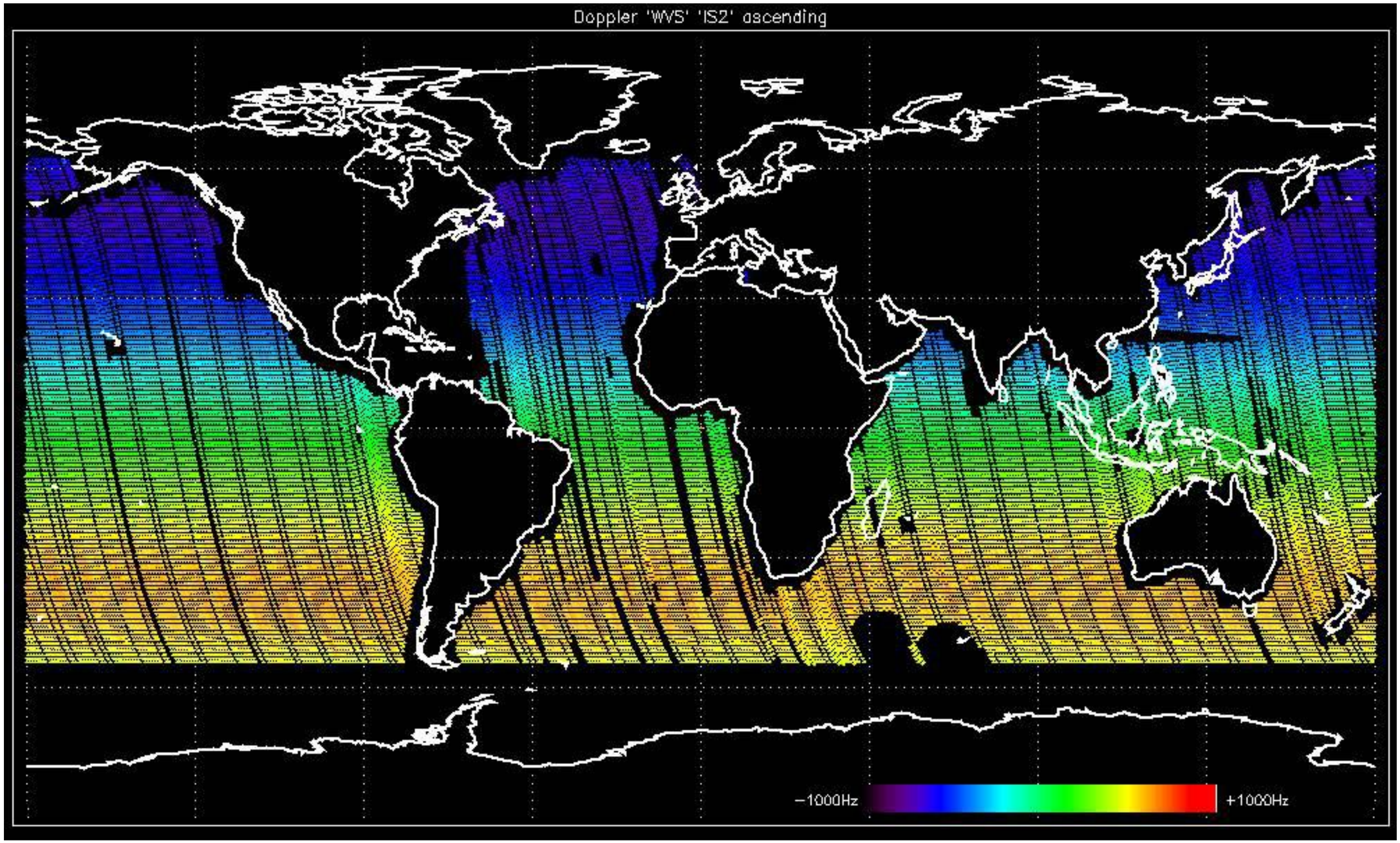

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

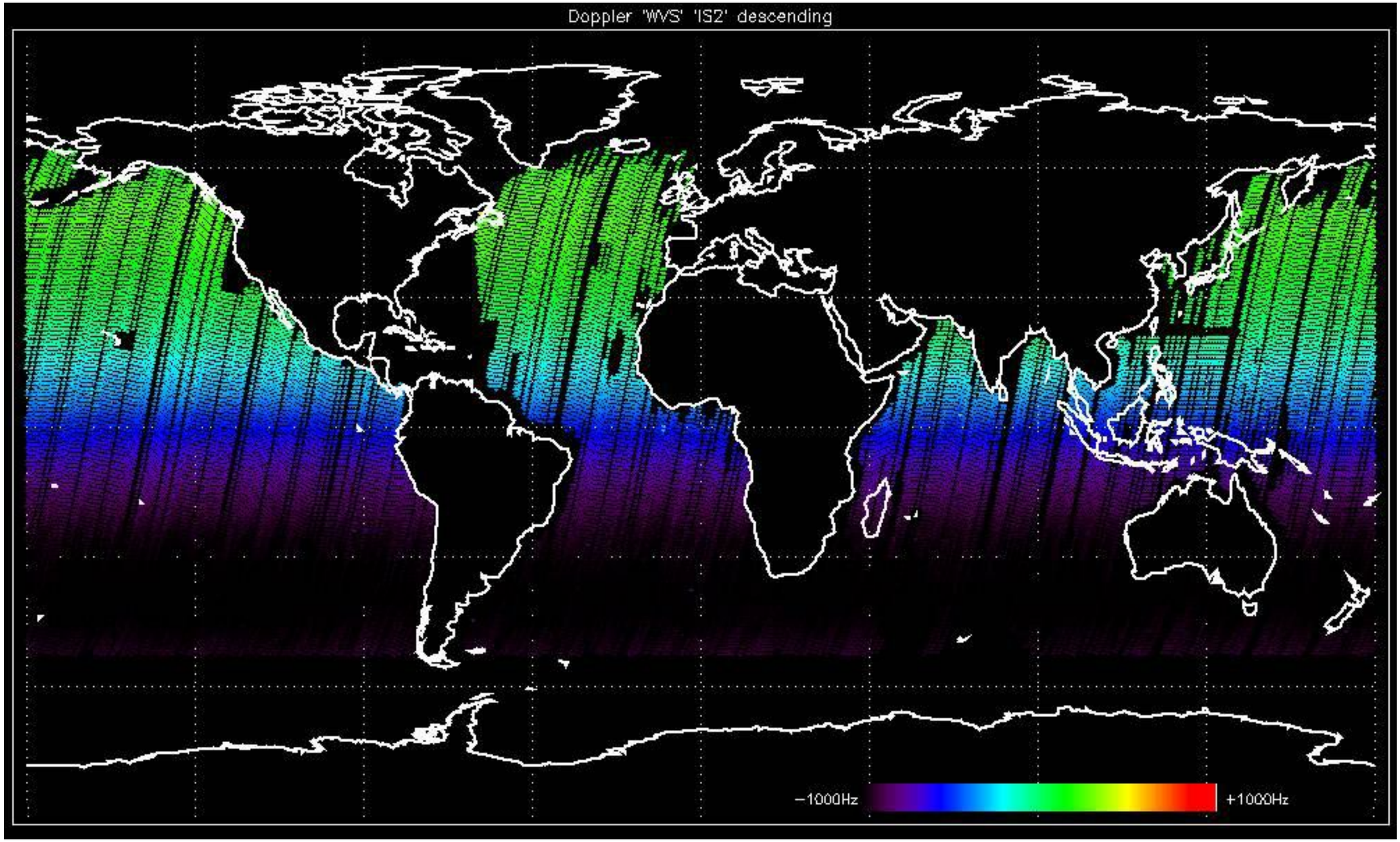
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

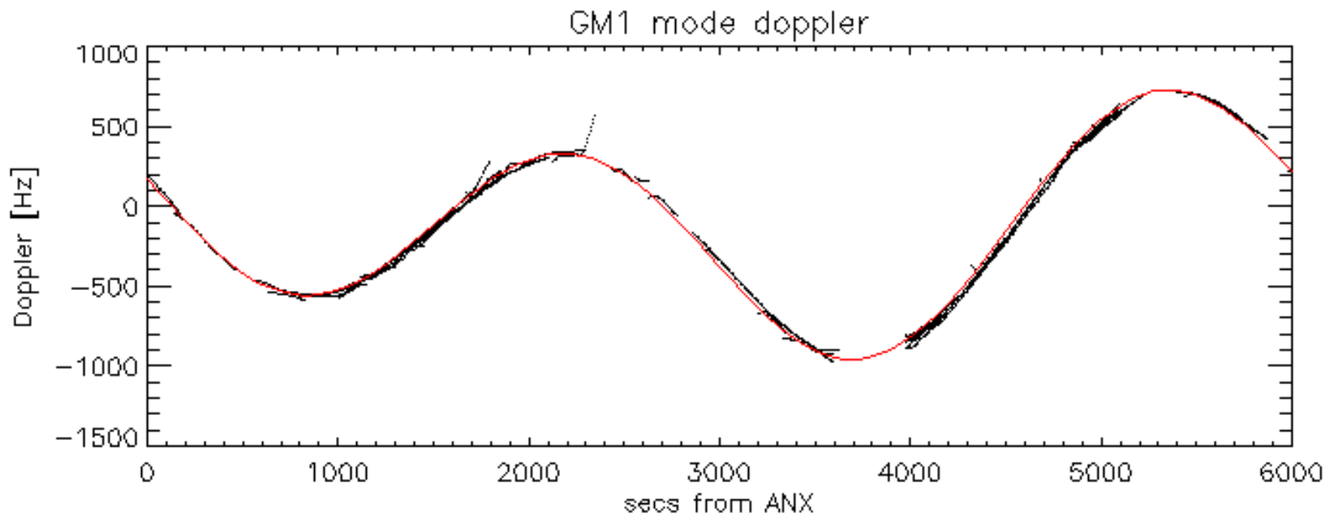
Preliminary report.The data is not yet controled

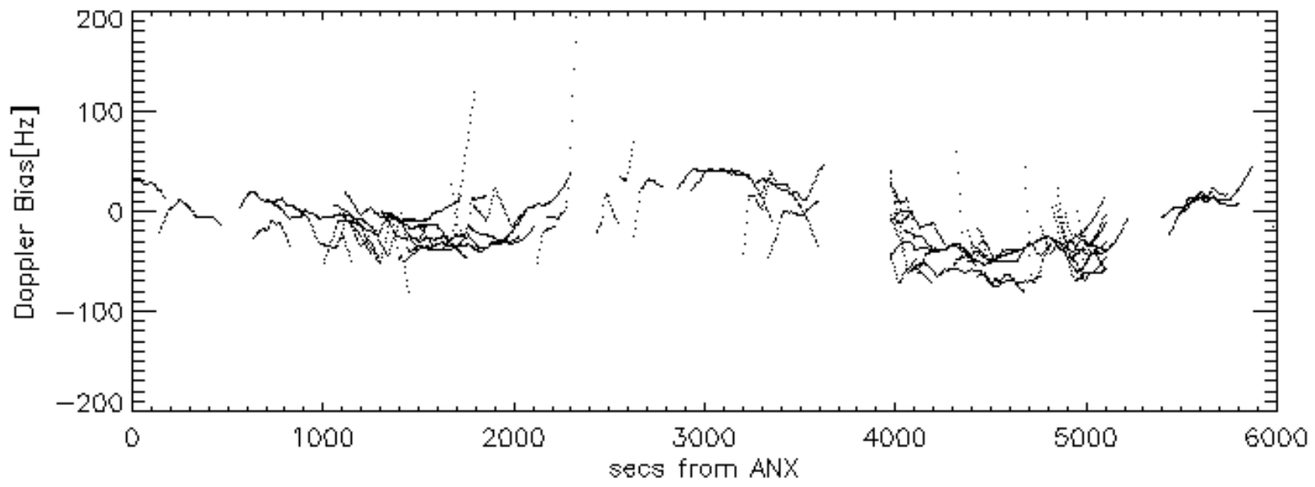

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

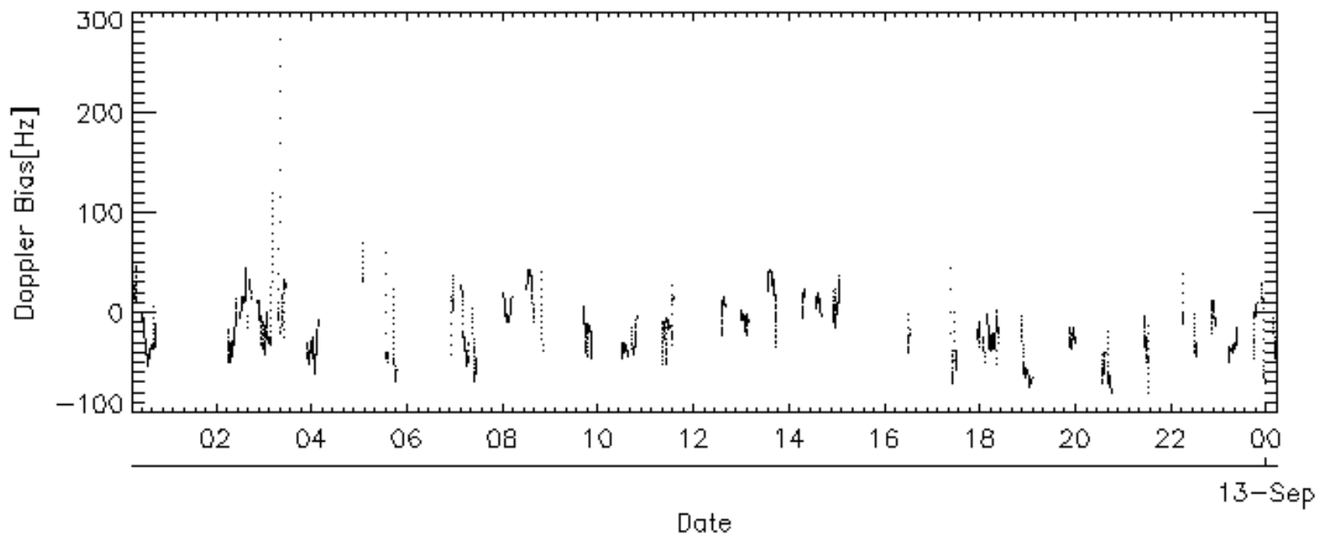

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

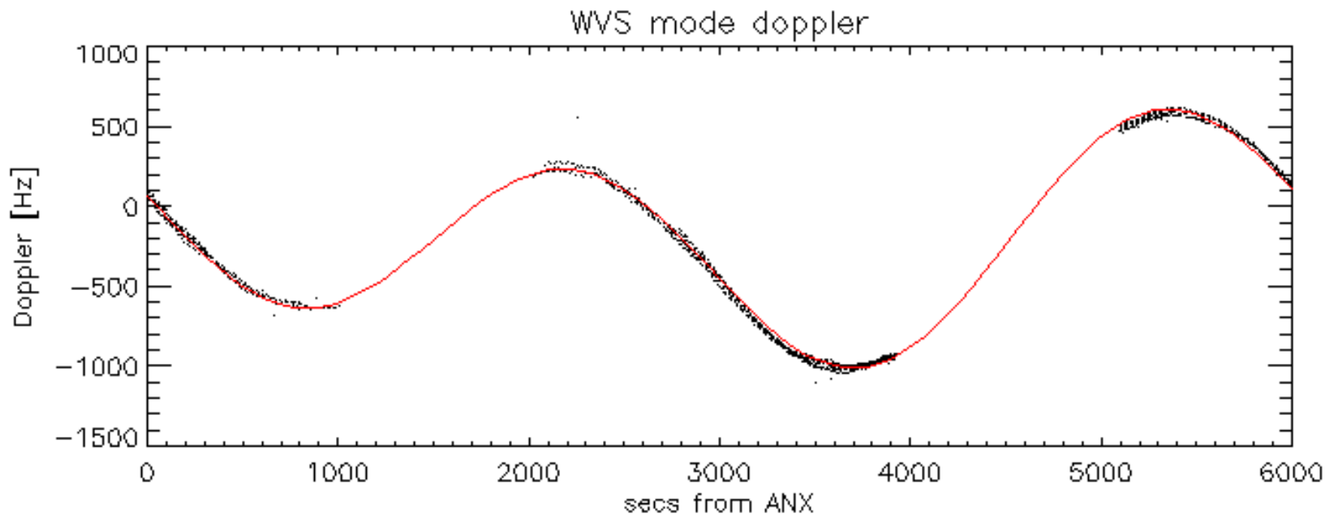

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

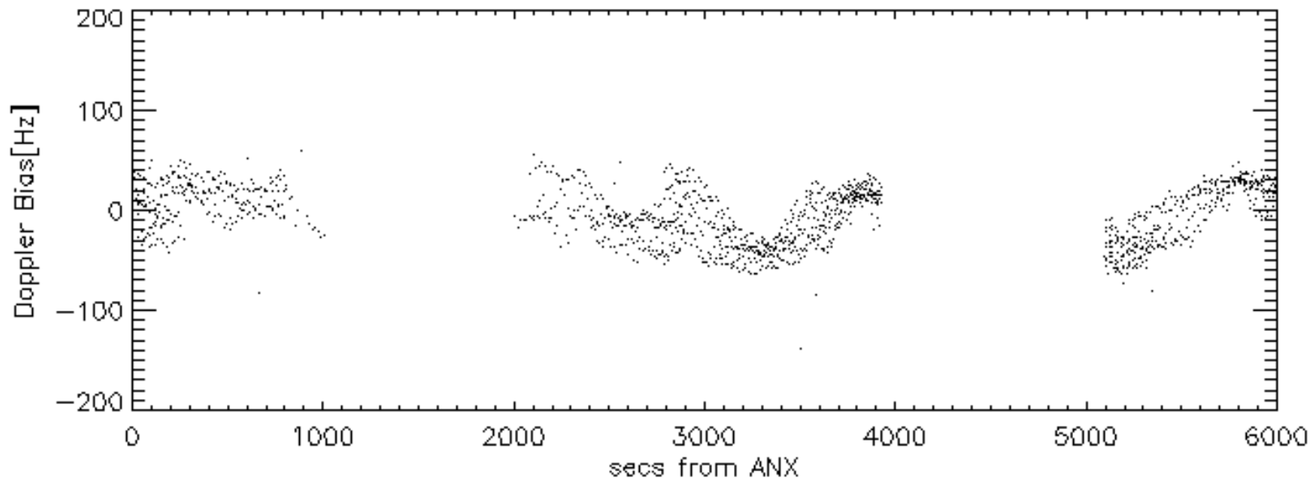

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

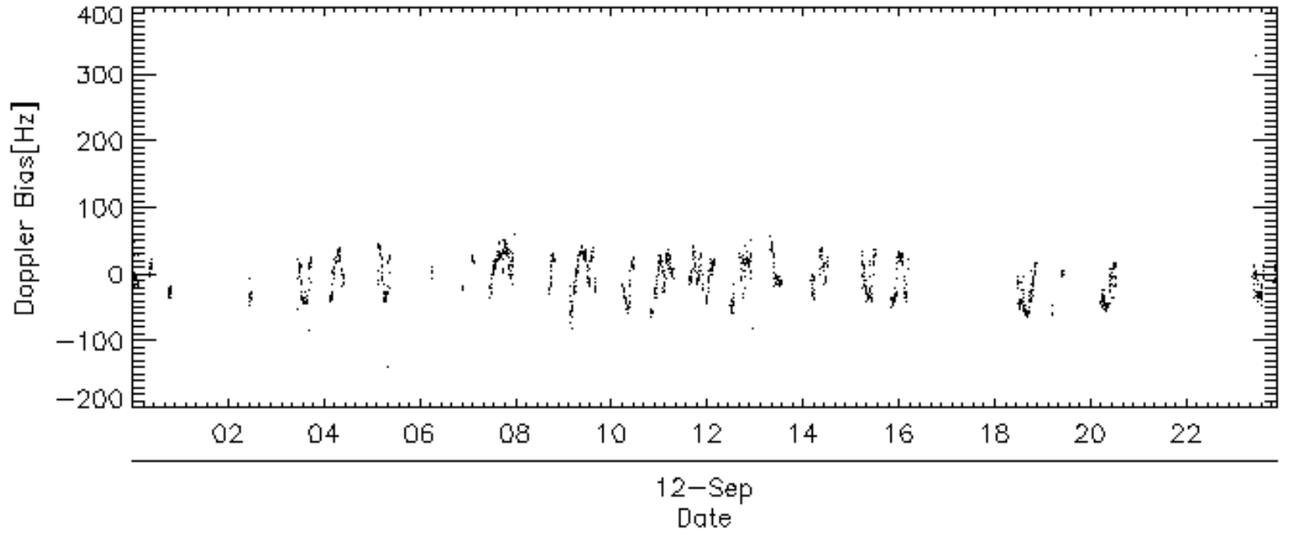

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

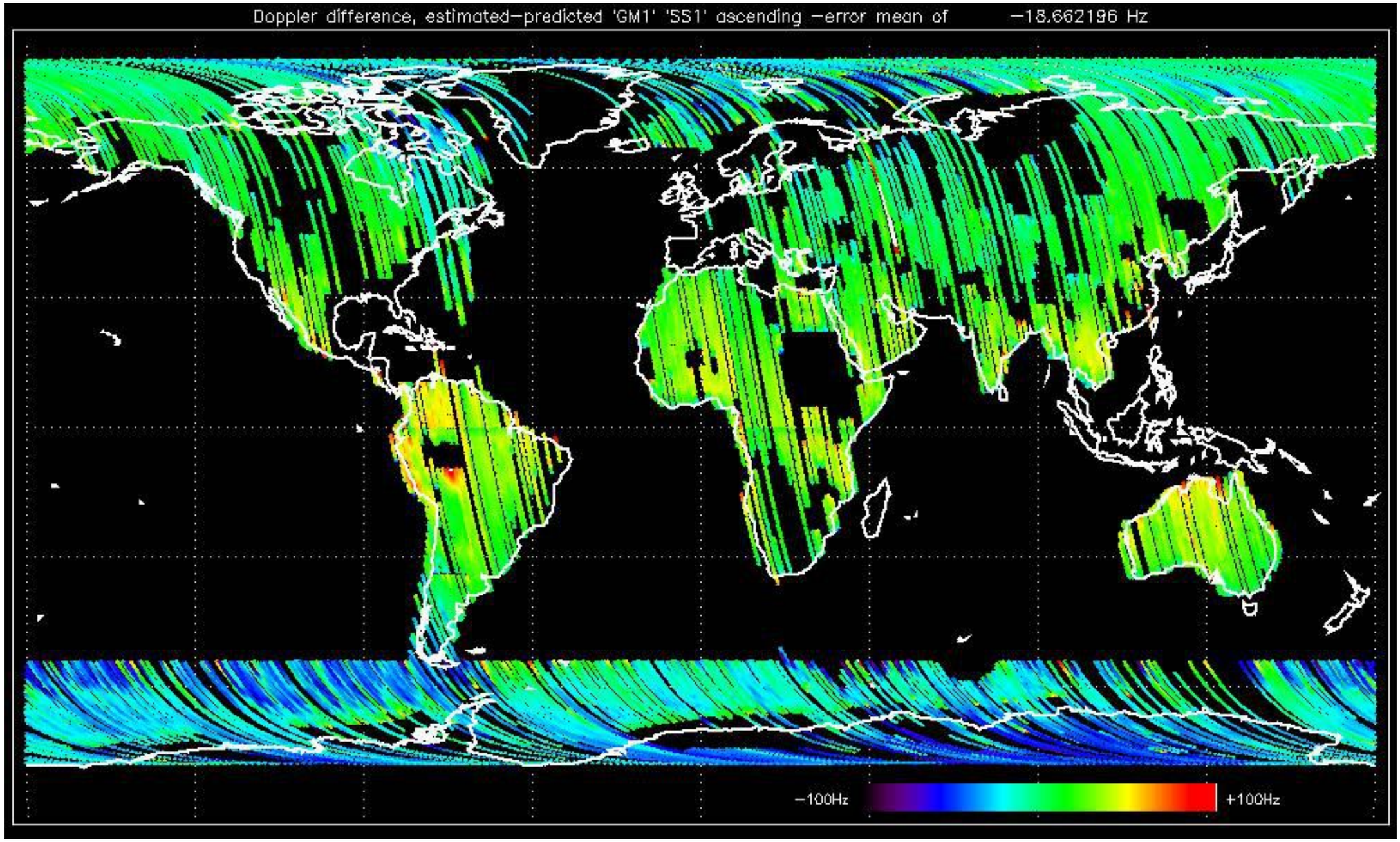

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

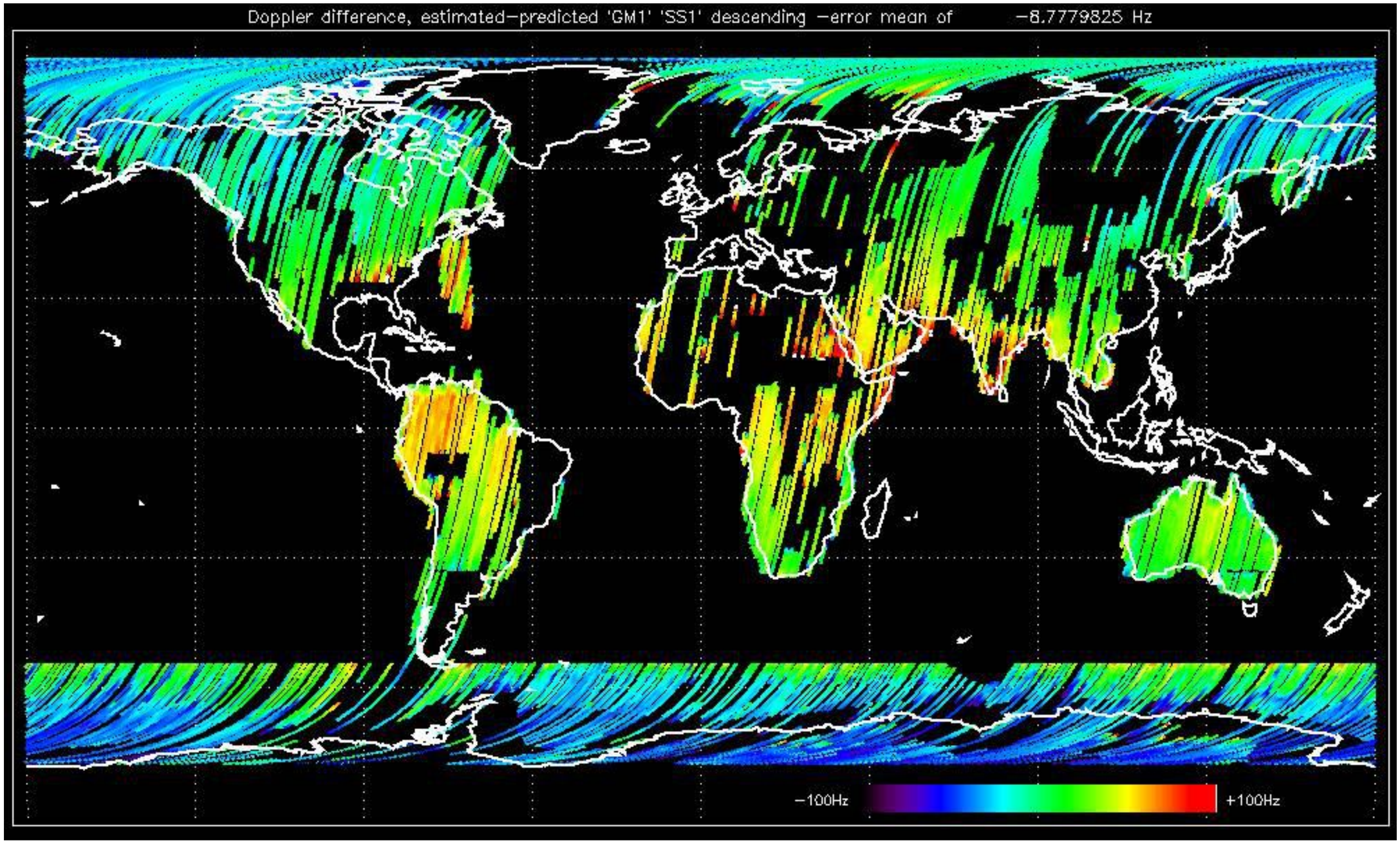

Doppler Bias[Hz]
300
200
100
0
−100
02
04
06
08
10
12
14
16
18
20
22
00
13−Sep
Date

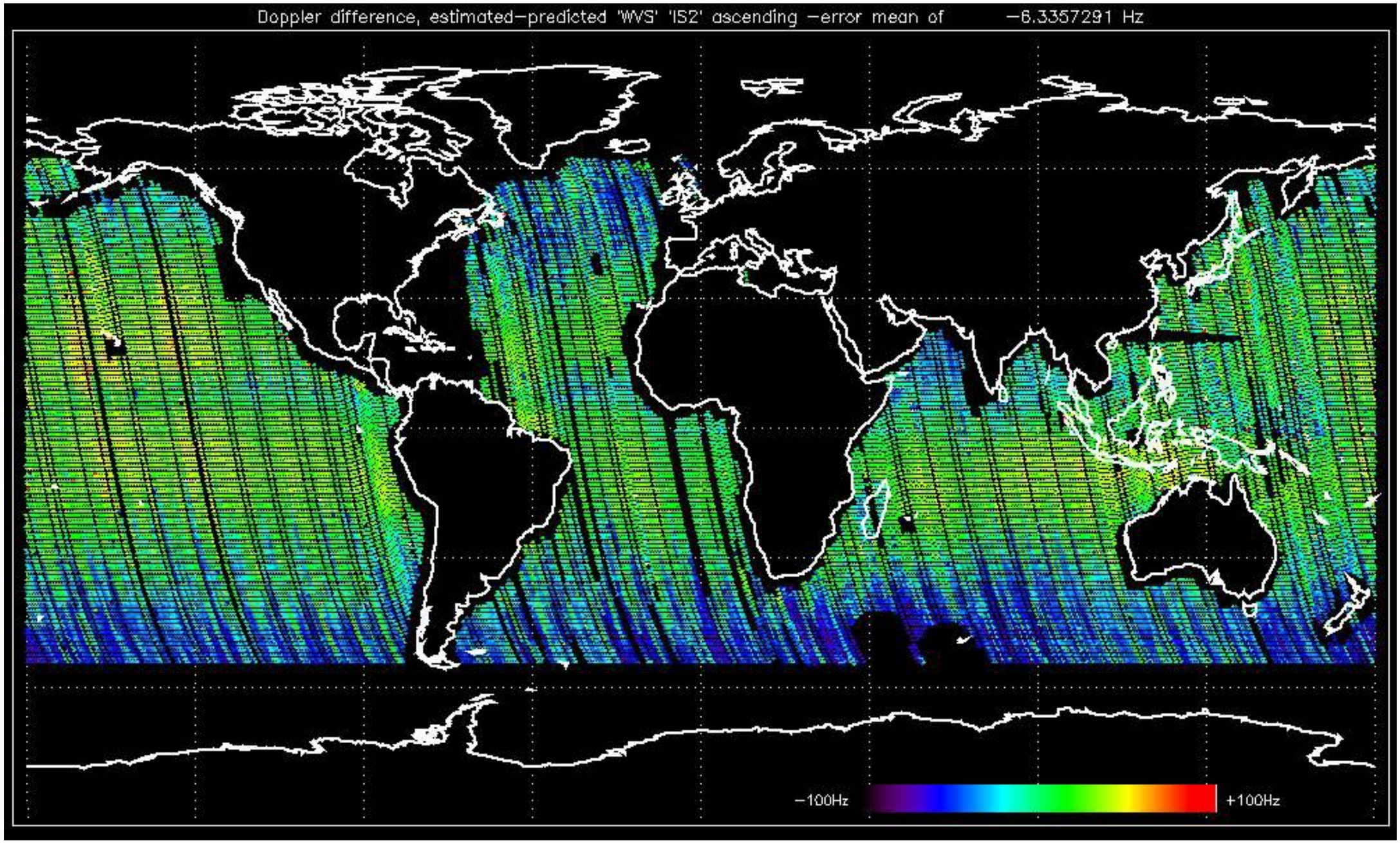

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

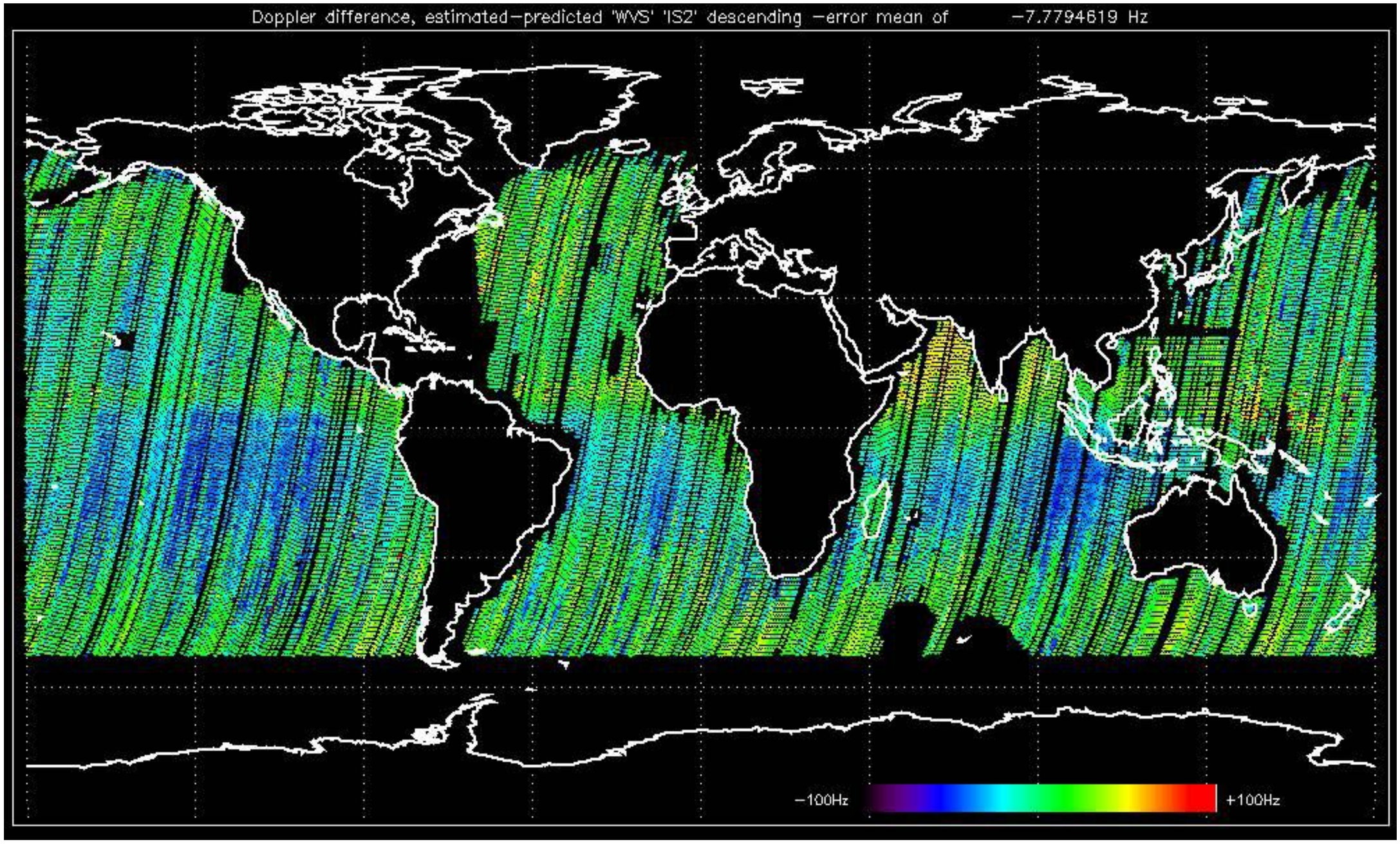

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.662196 Hz
−100Hz
+100Hz

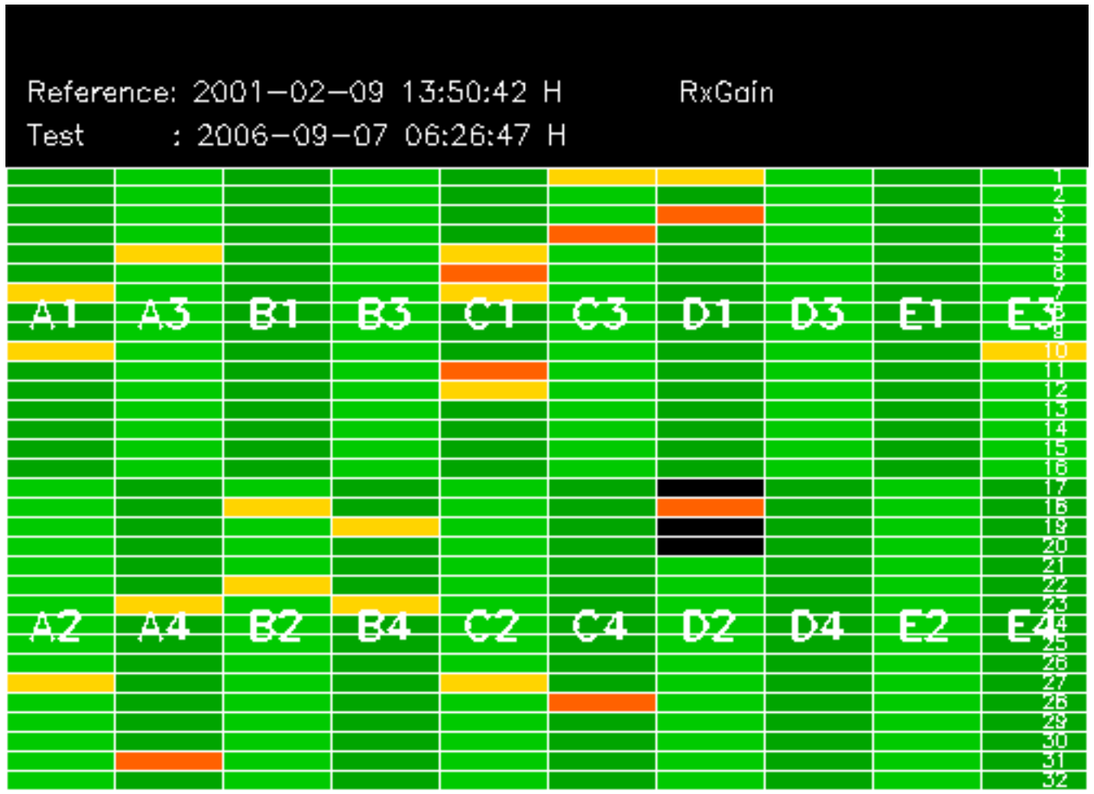

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −8.7779825 Hz
−100Hz
+100Hz

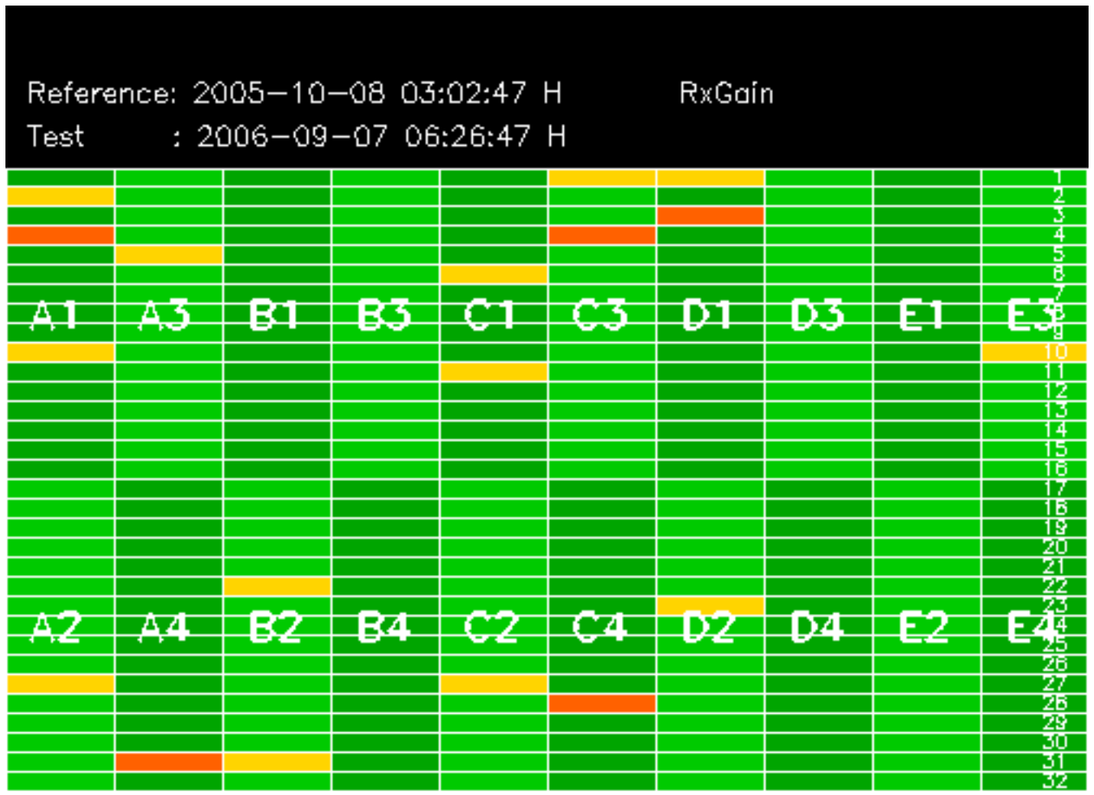

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −6.3357291 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −7.7794619 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-09-07 06:26:47 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 : 2006-09-07 06:26:47 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
5
6
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9
10
11
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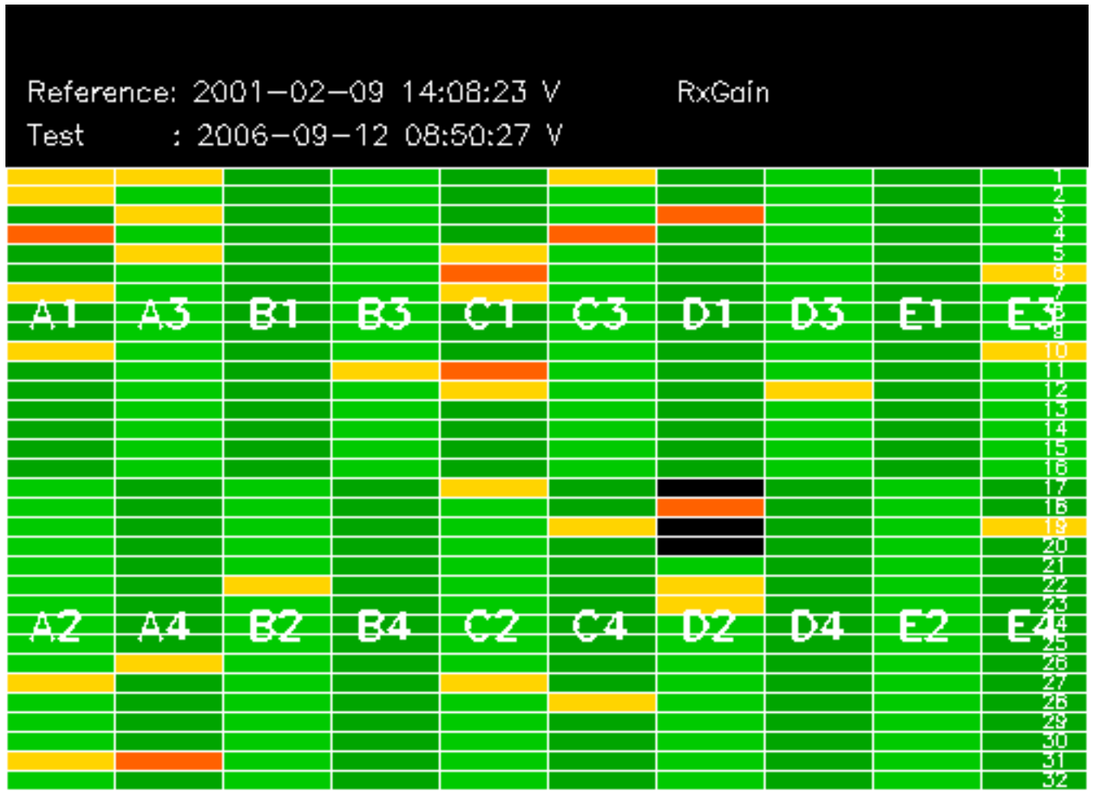
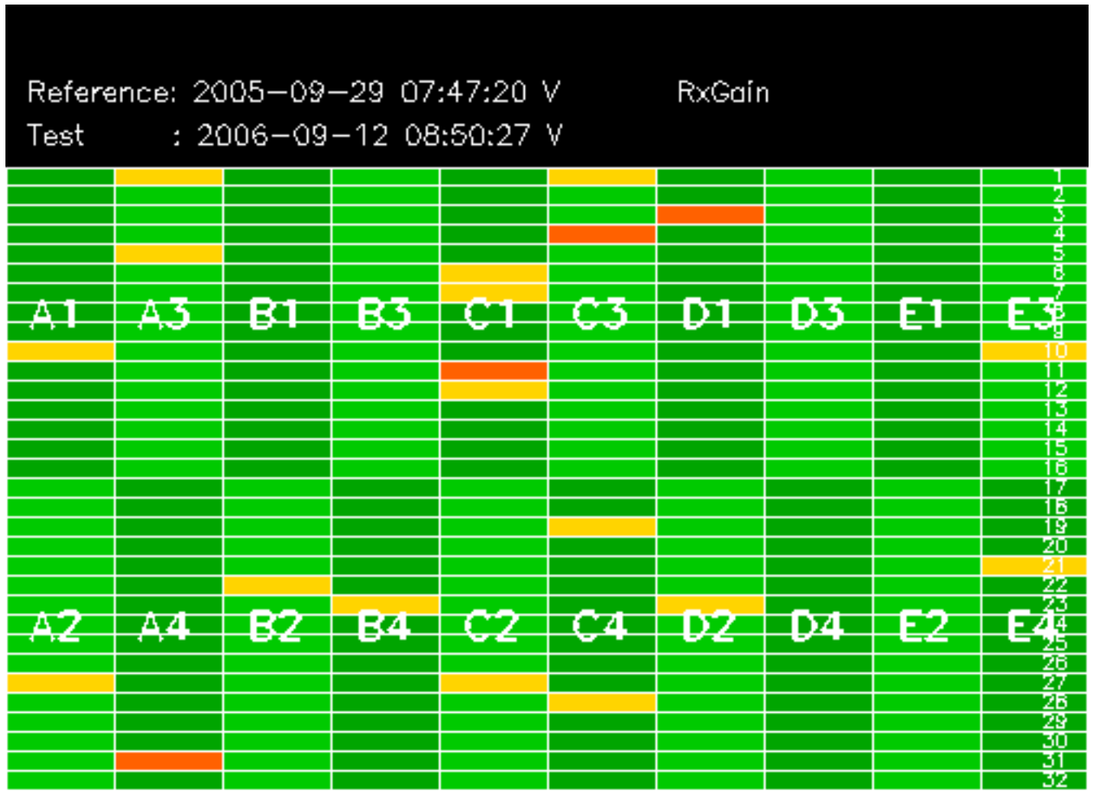

Reference: 2001-02-09 14:08:23 V
Test : 2006-09-12 08:50:27 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-09-12 08:50:27 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
5
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7
8
9
10
11
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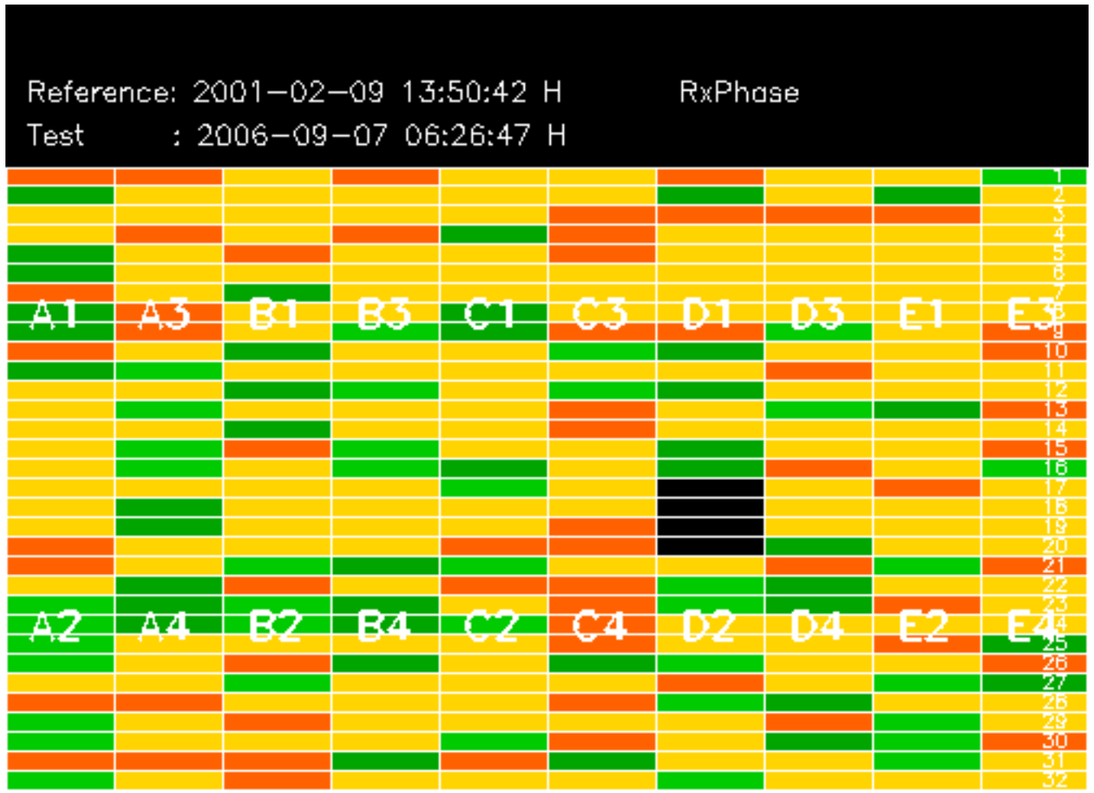
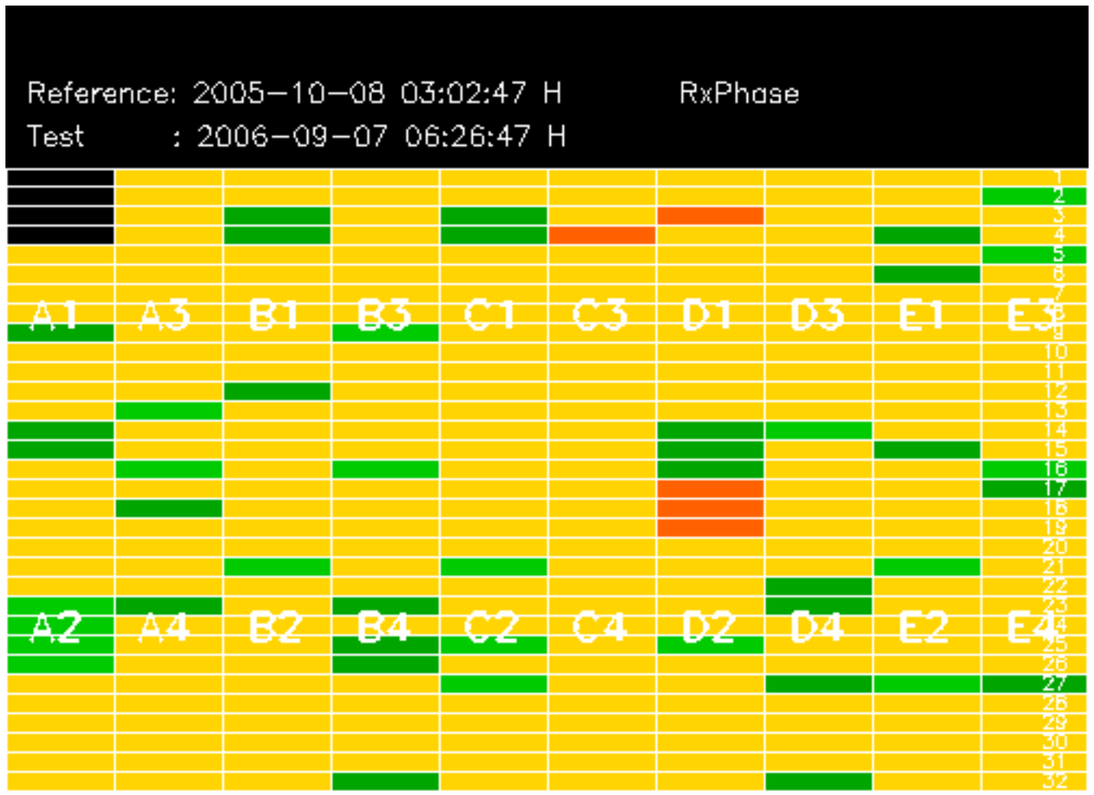
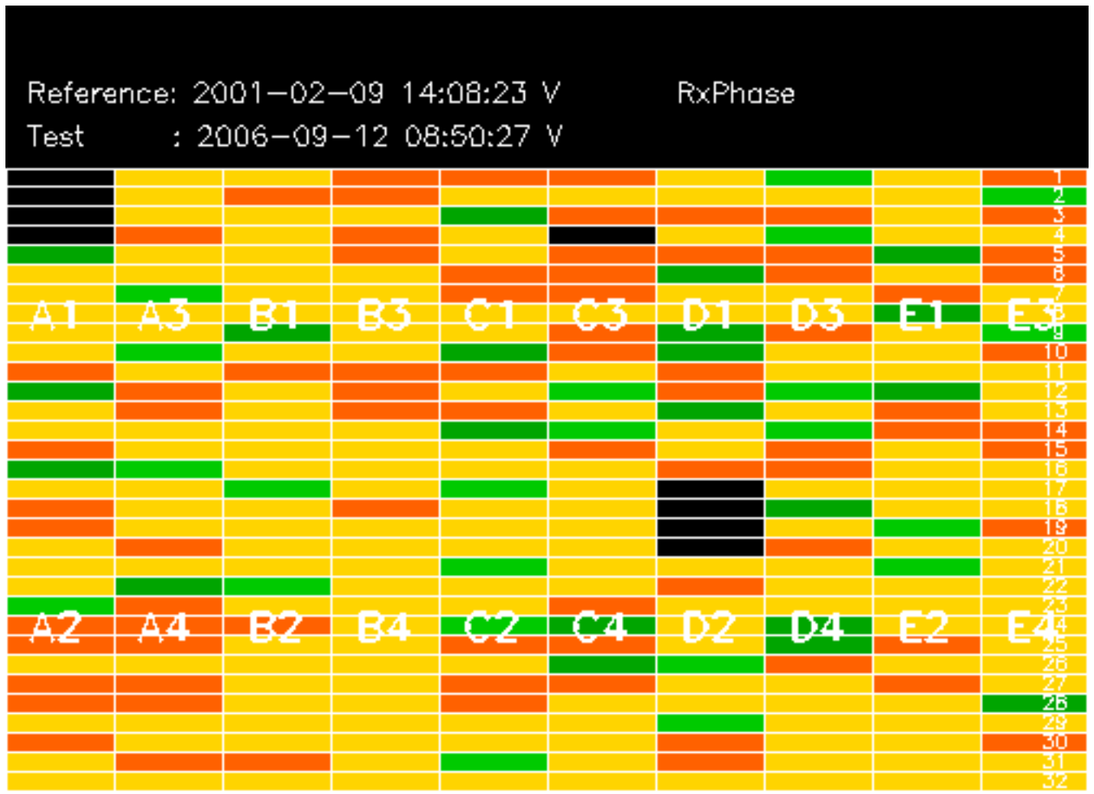
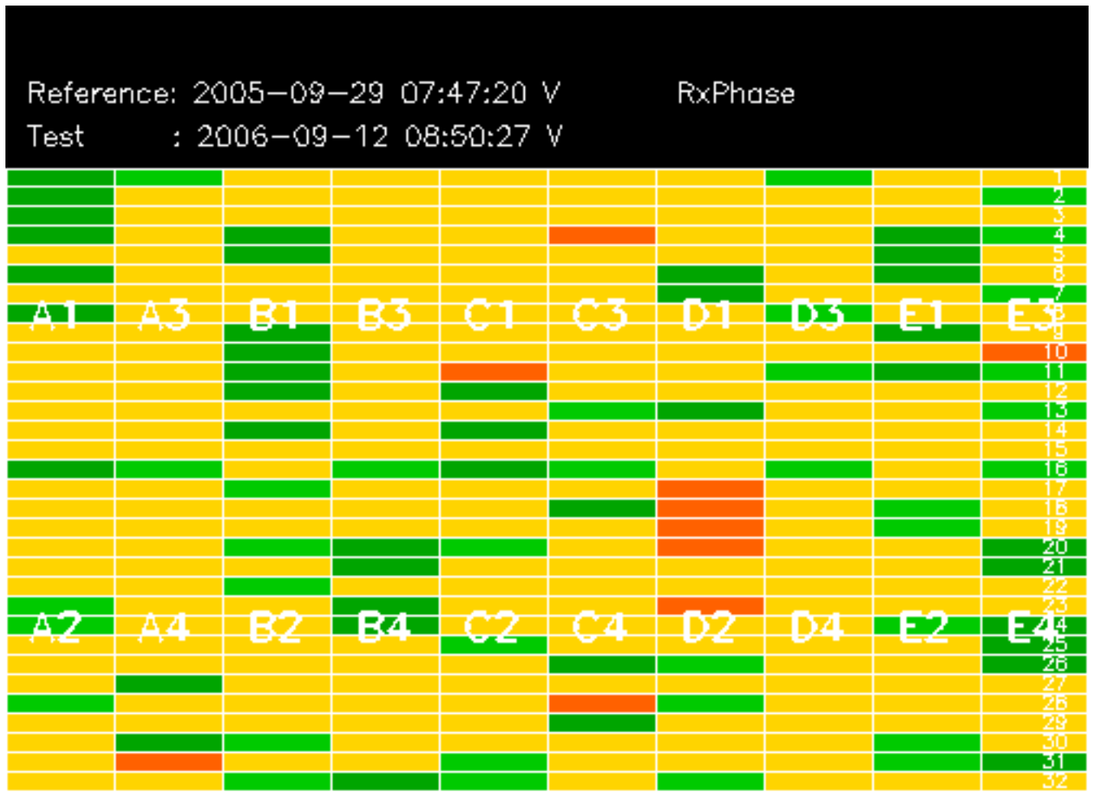
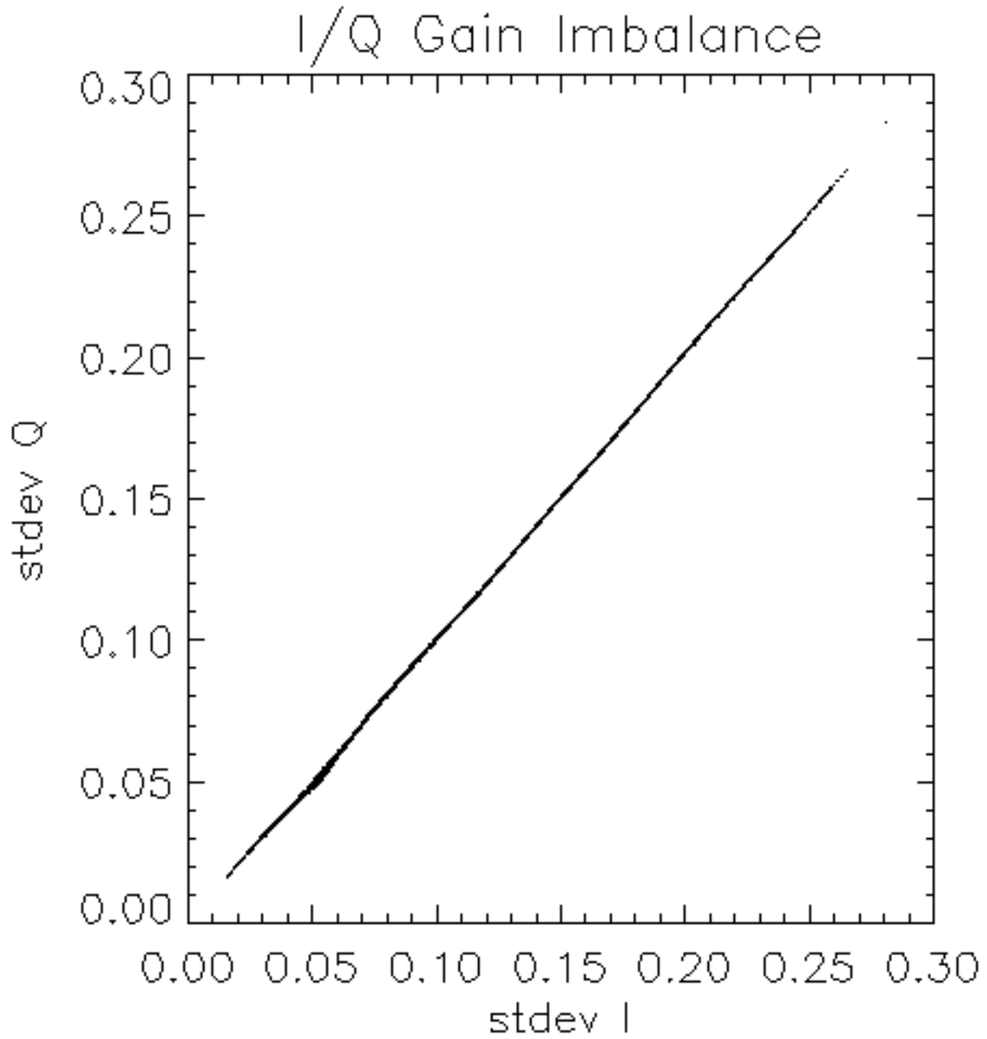
31
32

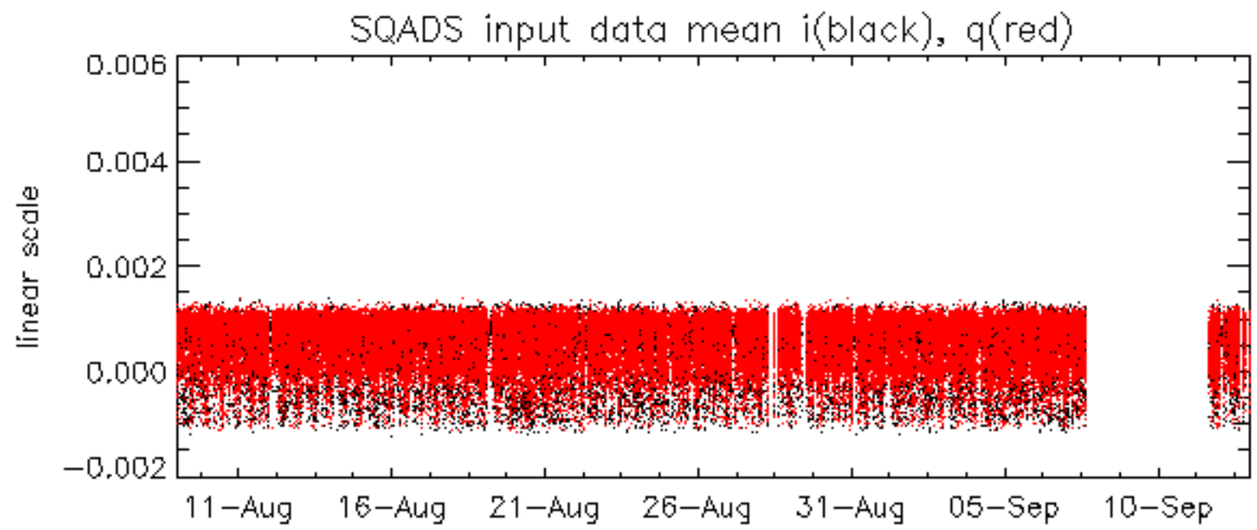

Reference: 2001-02-09 13:50:42 H
Test : 2006-09-07 06:26:47 H
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

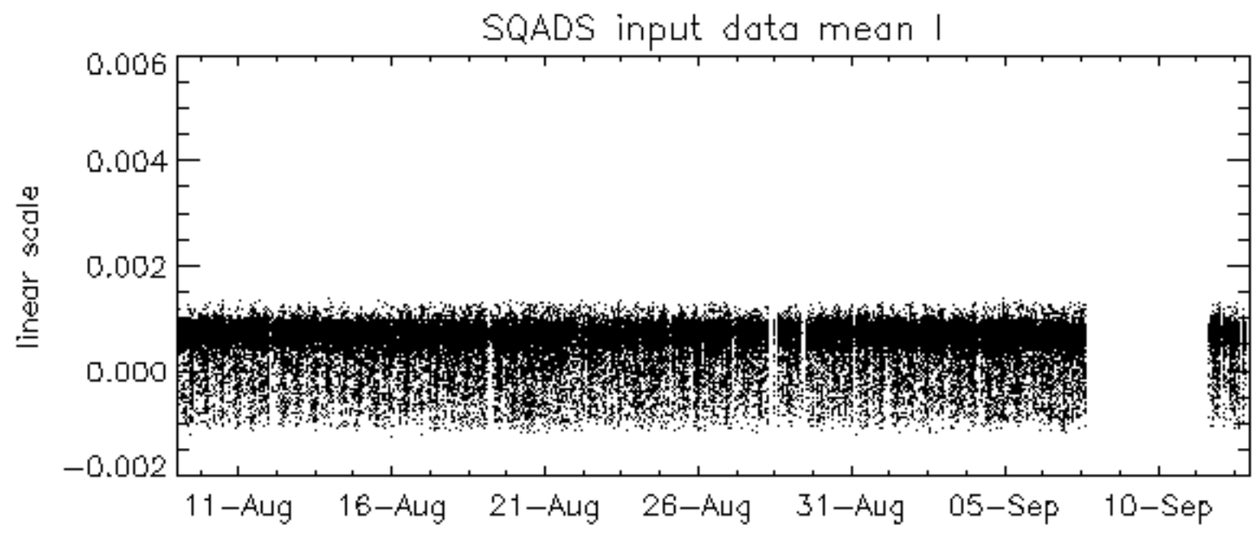

Reference: 2005-10-08 03:02:47 H
Test : 2006-09-07 06:26:47 H
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

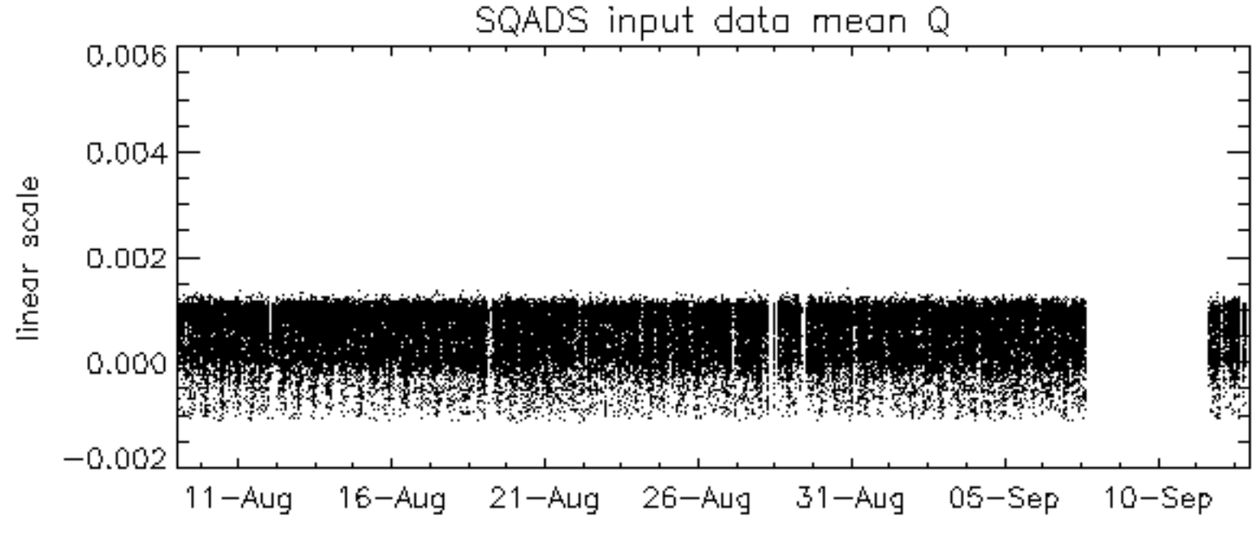

Reference: 2001-02-09 14:08:23 V
RxPhase
Test : 2006-09-12 08:50:27 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

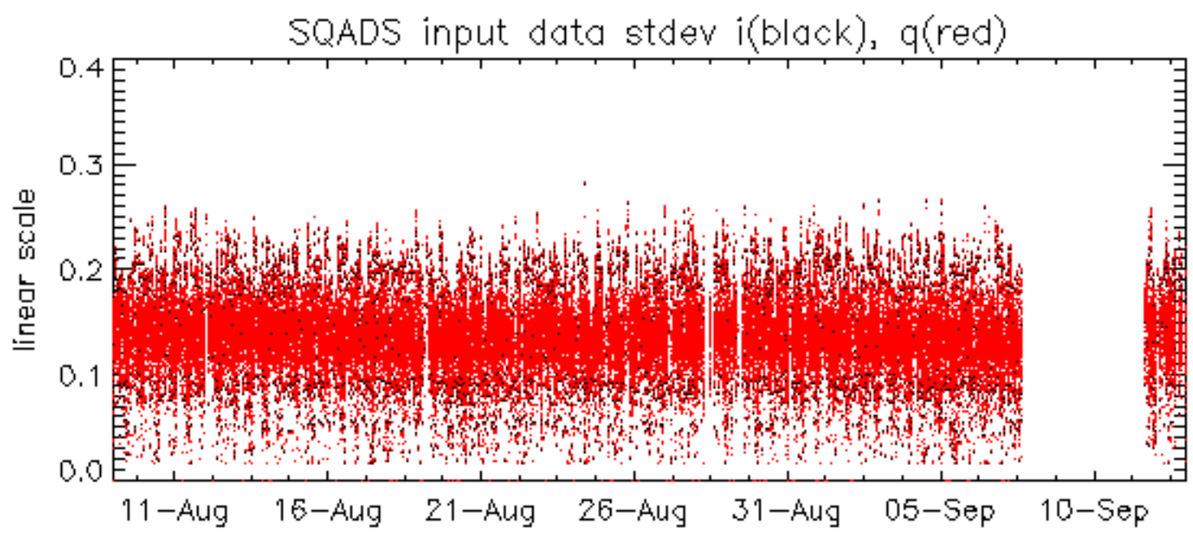

Reference: 2005-09-29 07:47:20 V
Test : 2006-09-12 08:50:27 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

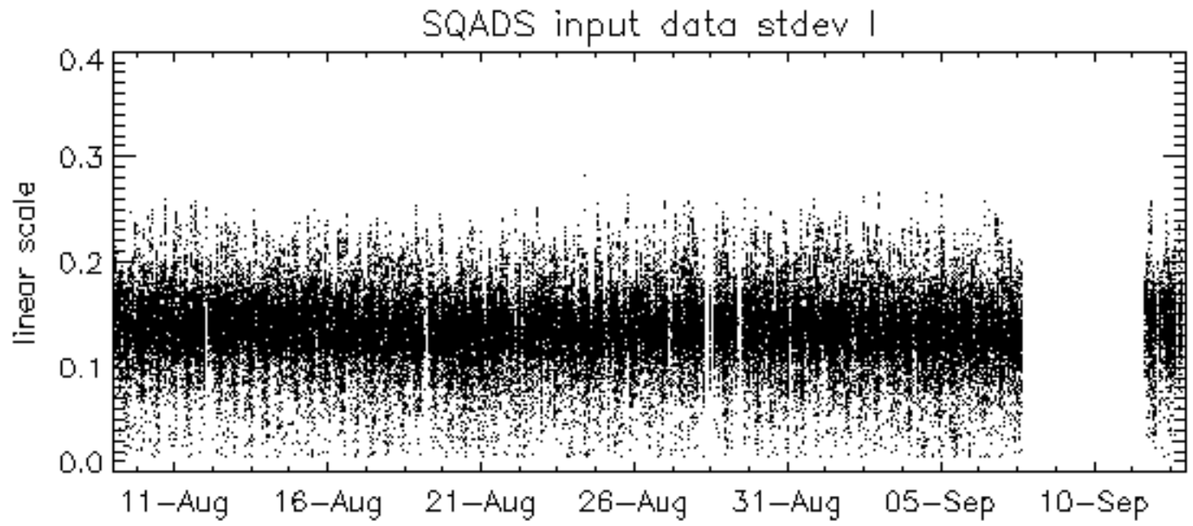

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

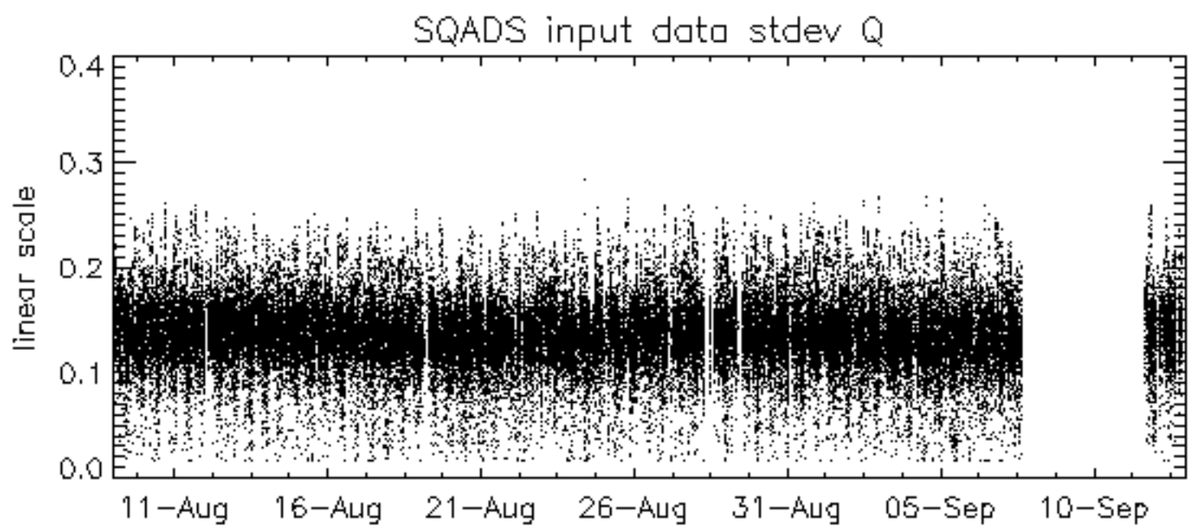

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Aug
16−Aug
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep

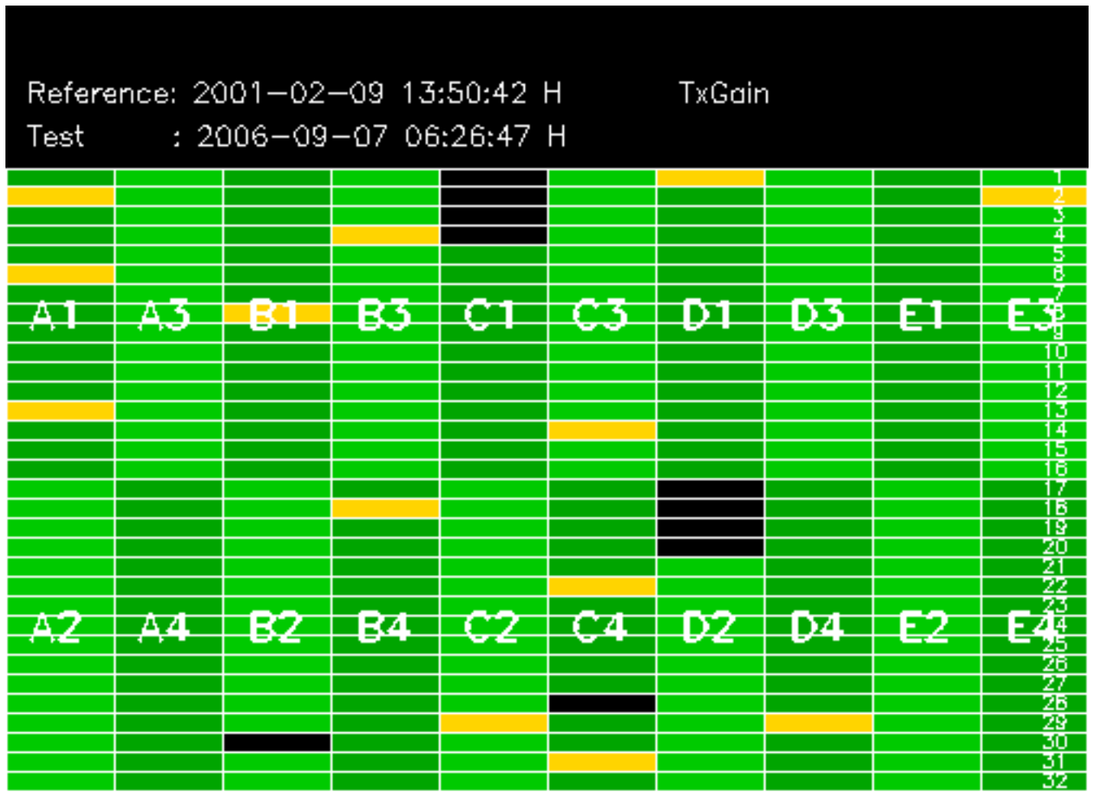

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Aug
16−Aug
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Aug
16−Aug
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
11-Aug
16-Aug
21-Aug
26-Aug
31-Aug
05-Sep
10-Sep


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
11-Aug
16-Aug
21-Aug
26-Aug
31-Aug
05-Sep
10-Sep


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
11-Aug
16-Aug
21-Aug
26-Aug
31-Aug
05-Sep
10-Sep


Reference: 2001-02-09 13:50:42 H
Test : 2006-09-07 06:26:47 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
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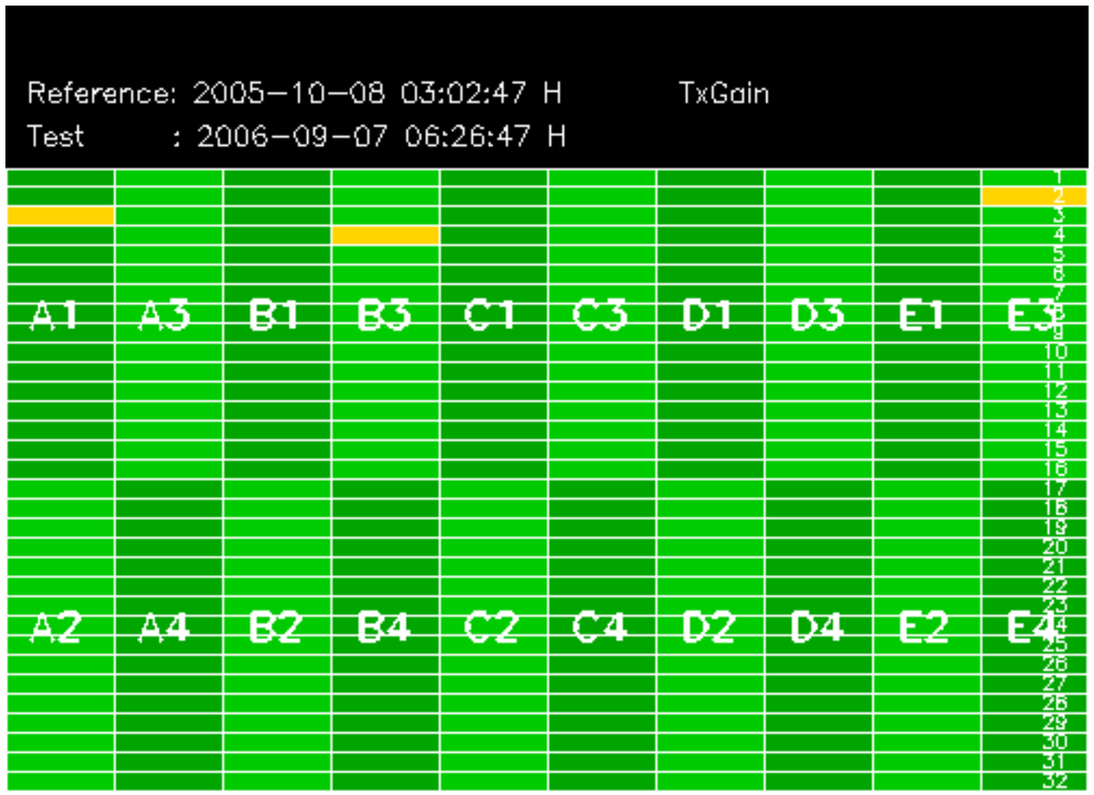
Reference: 2005-10-08 03:02:47 H
Test : 2006-09-07 06:26:47 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
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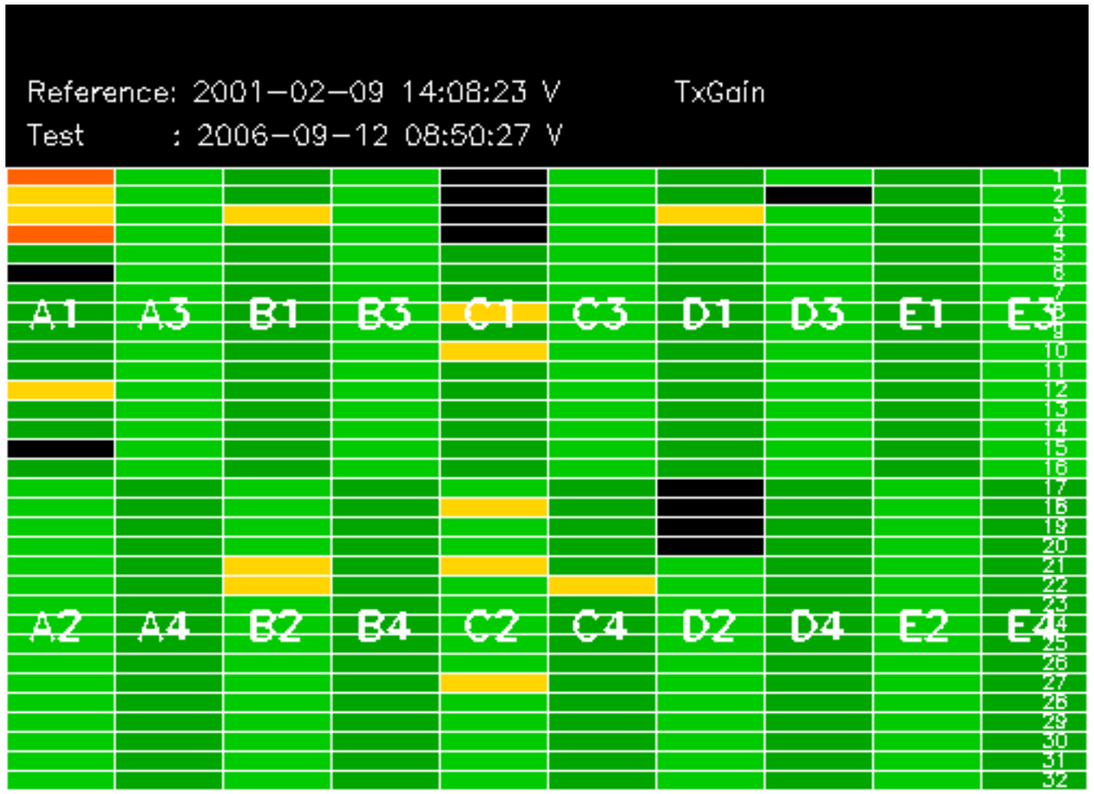
26
27
28
29
30
31
32


Reference: 2001-02-09 14:08:23 V
Test : 2006-09-12 08:50:27 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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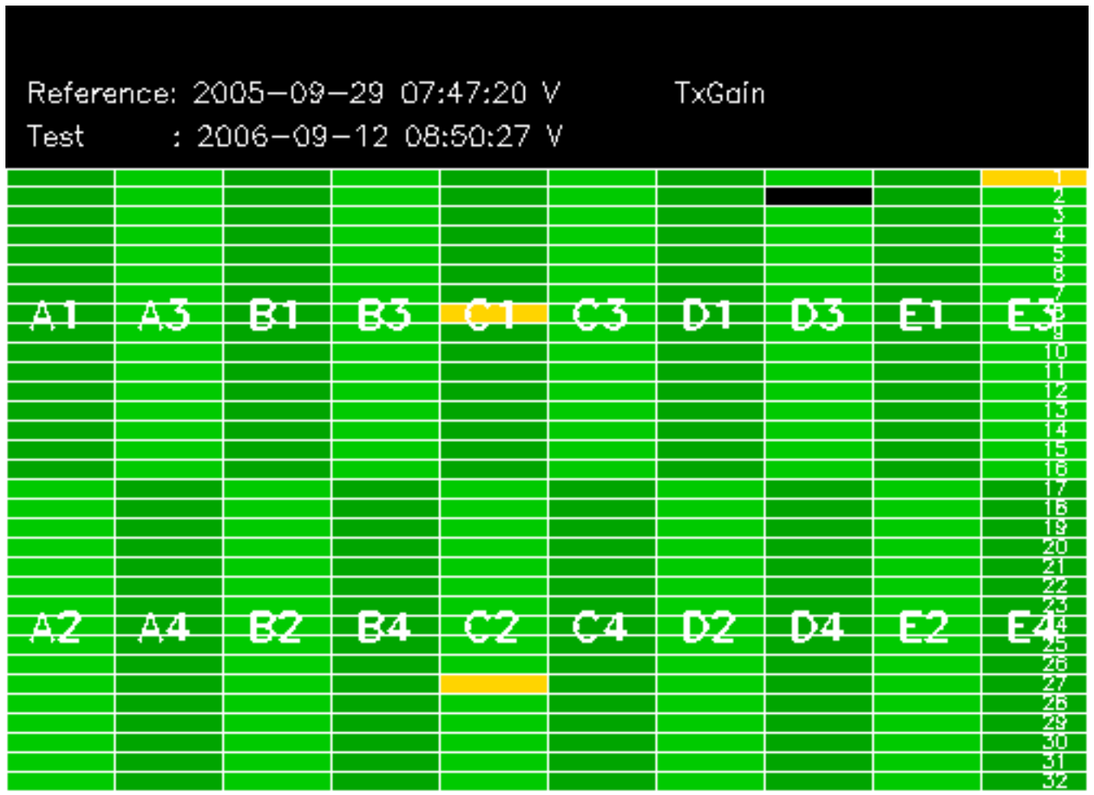
Reference: 2005-09-29 07:47:20 V
Test : 2006-09-12 08:50:27 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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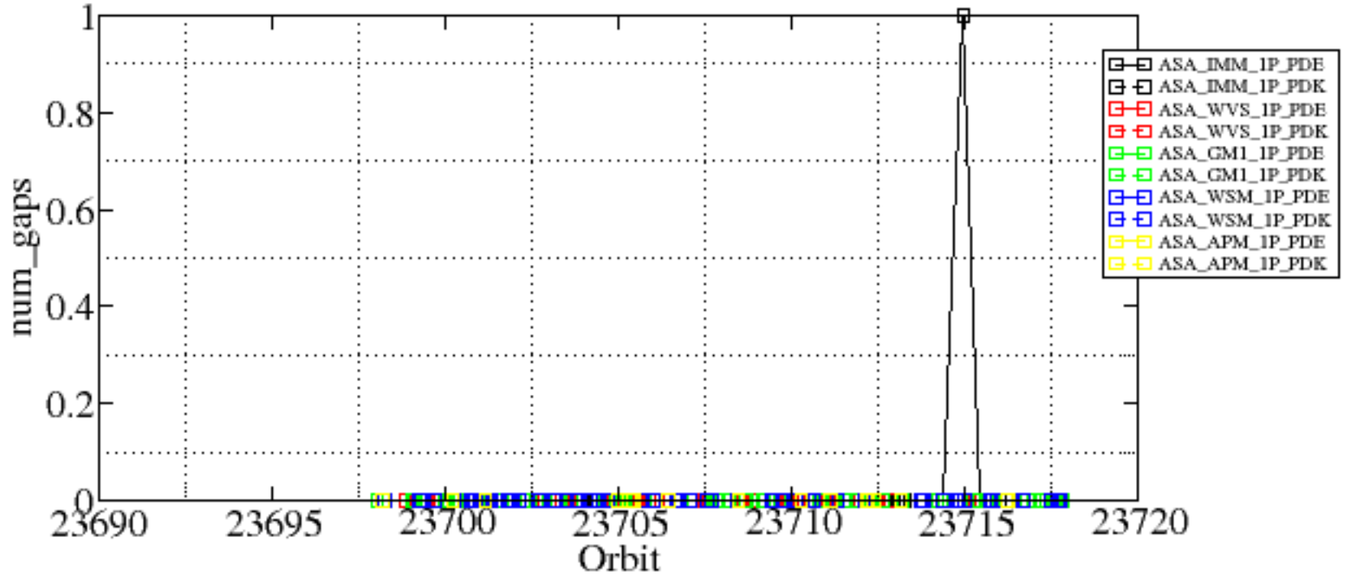
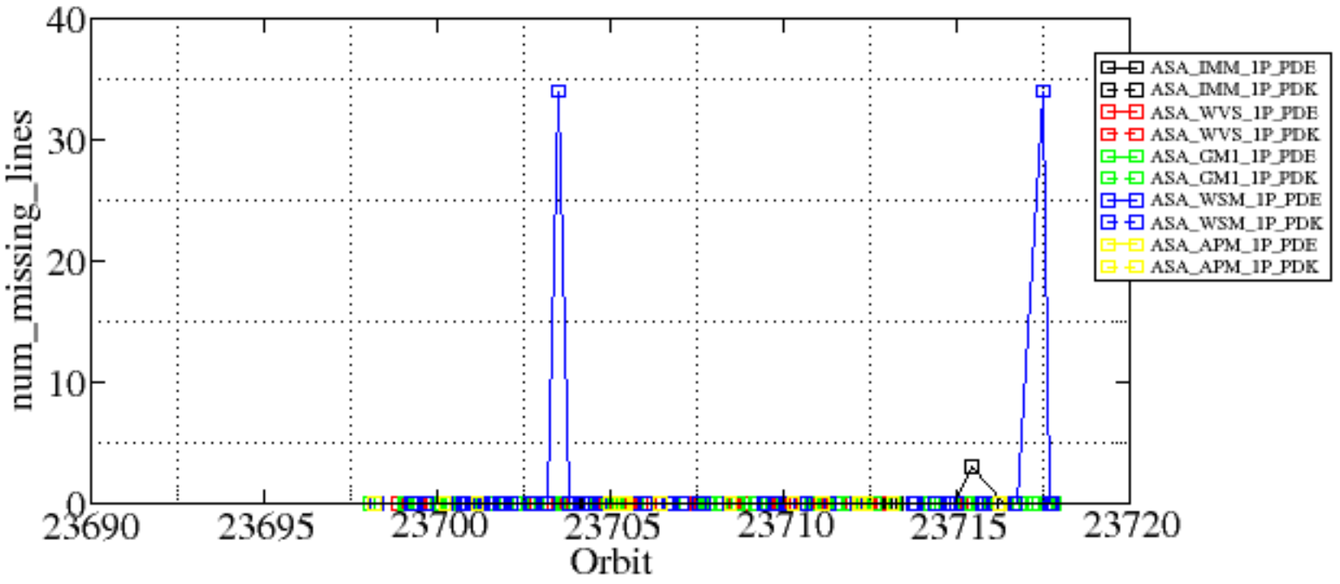
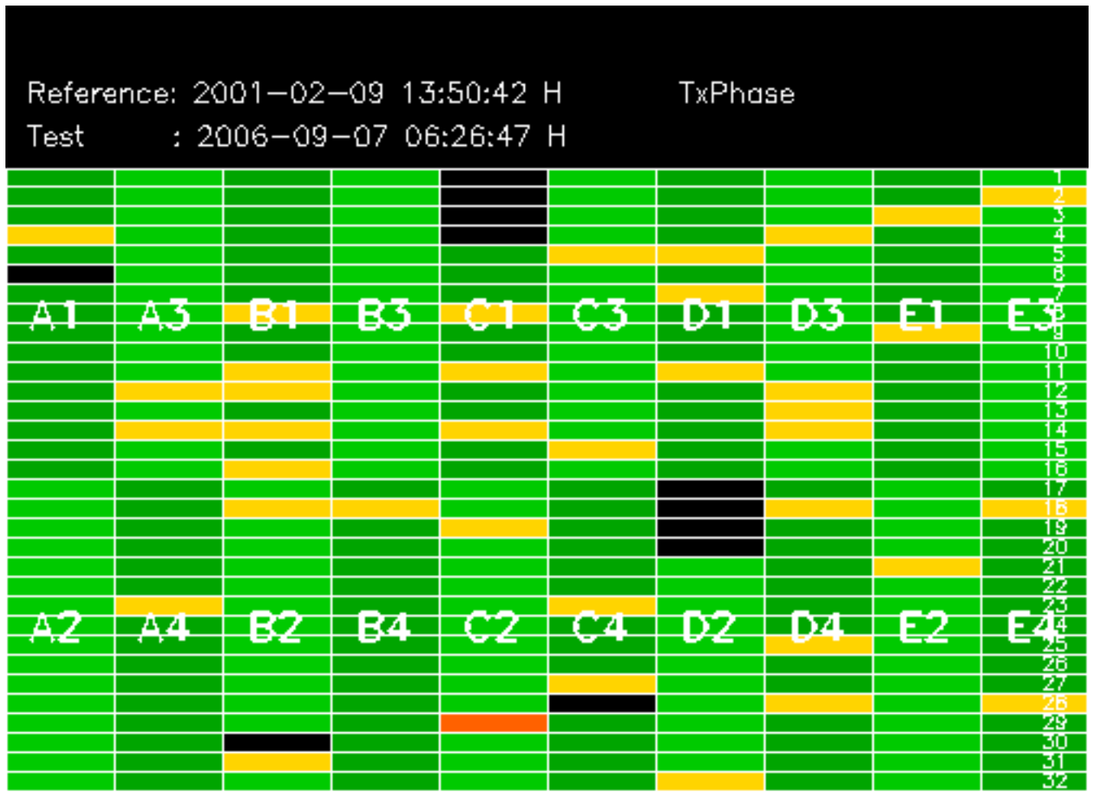
Summary of analysis for the last 3 days 2006091[123]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060912_192317_000000512051_00113_23714_5669.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060912_201158_000000372051_00114_23715_5671.N1 </td> <td>0 </td> <td>3 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060912_000911_000003242051_00102_23703_1588.N1 </td> <td>0 </td> <td>34 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060912_233734_000003242051_00116_23717_1761.N1 </td> <td>0 </td> <td>34 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
23690
23695
23700
23705
23710
23715
23720
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
ASA_APM_1P_PDK


num_missing_lines
40
30
20
10
0
23690
23695
23700
23705
23710
23715
23720
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
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
Test : 2006-09-07 06:26:47 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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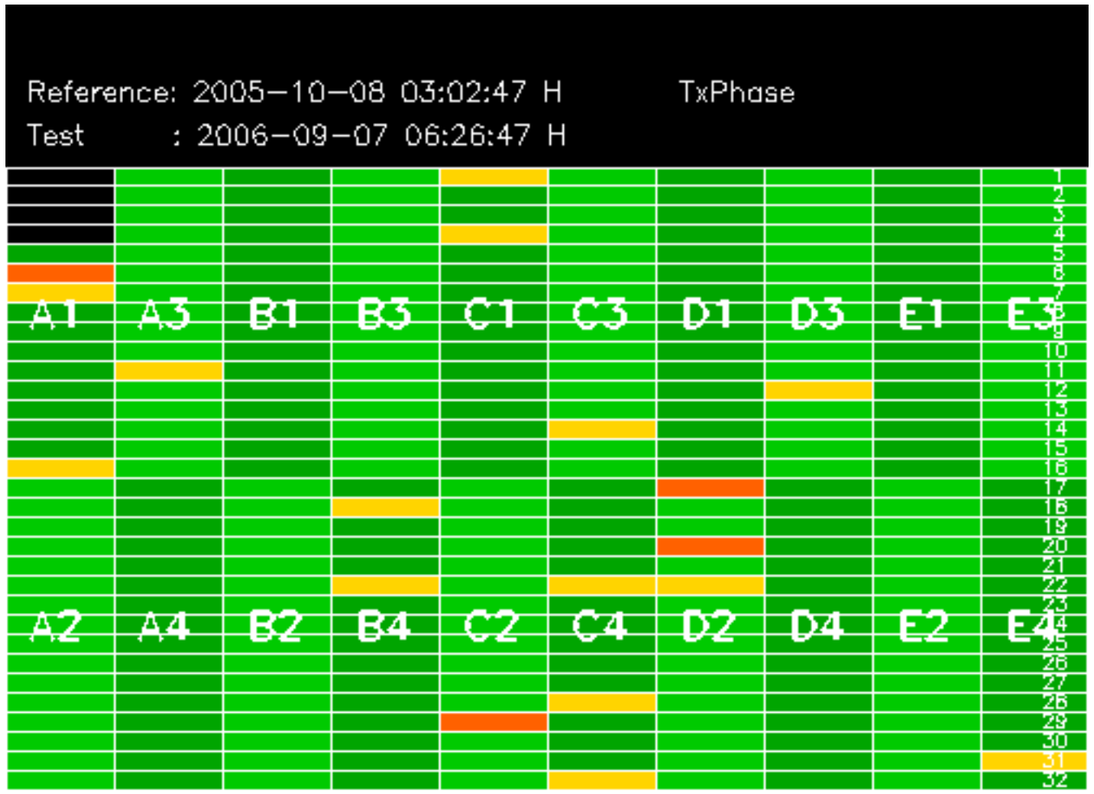
Reference: 2005-10-08 03:02:47 H
Test : 2006-09-07 06:26:47 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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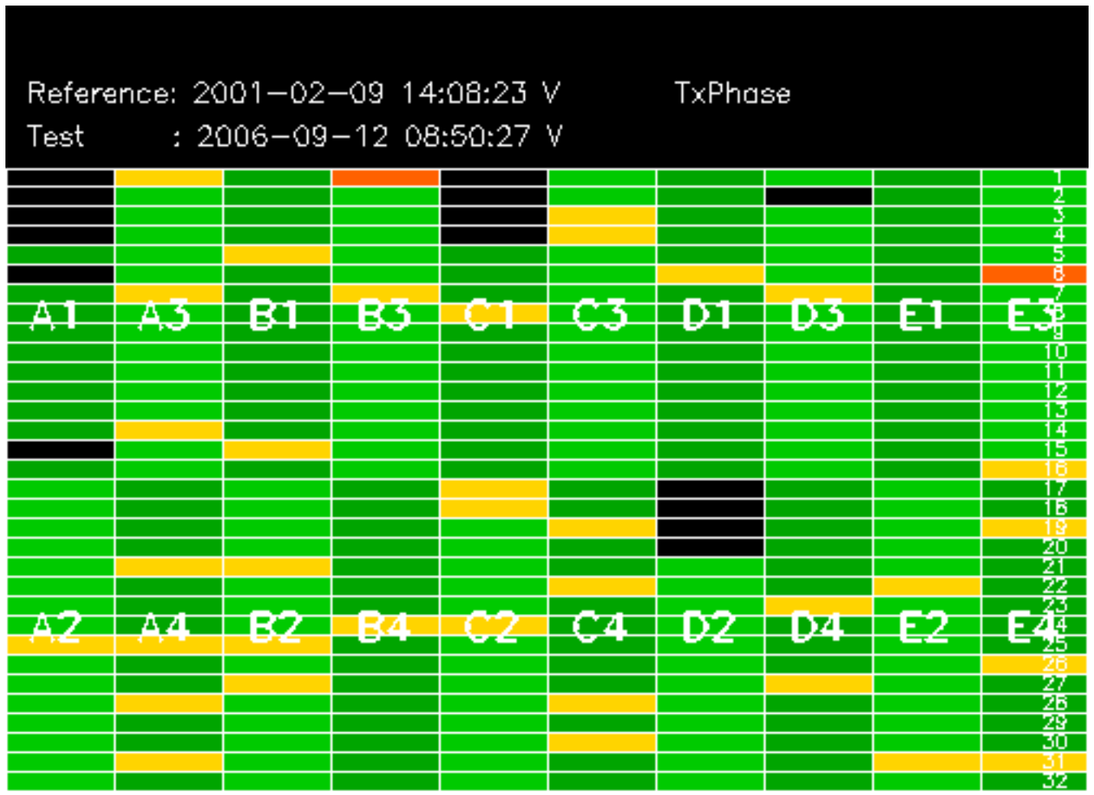
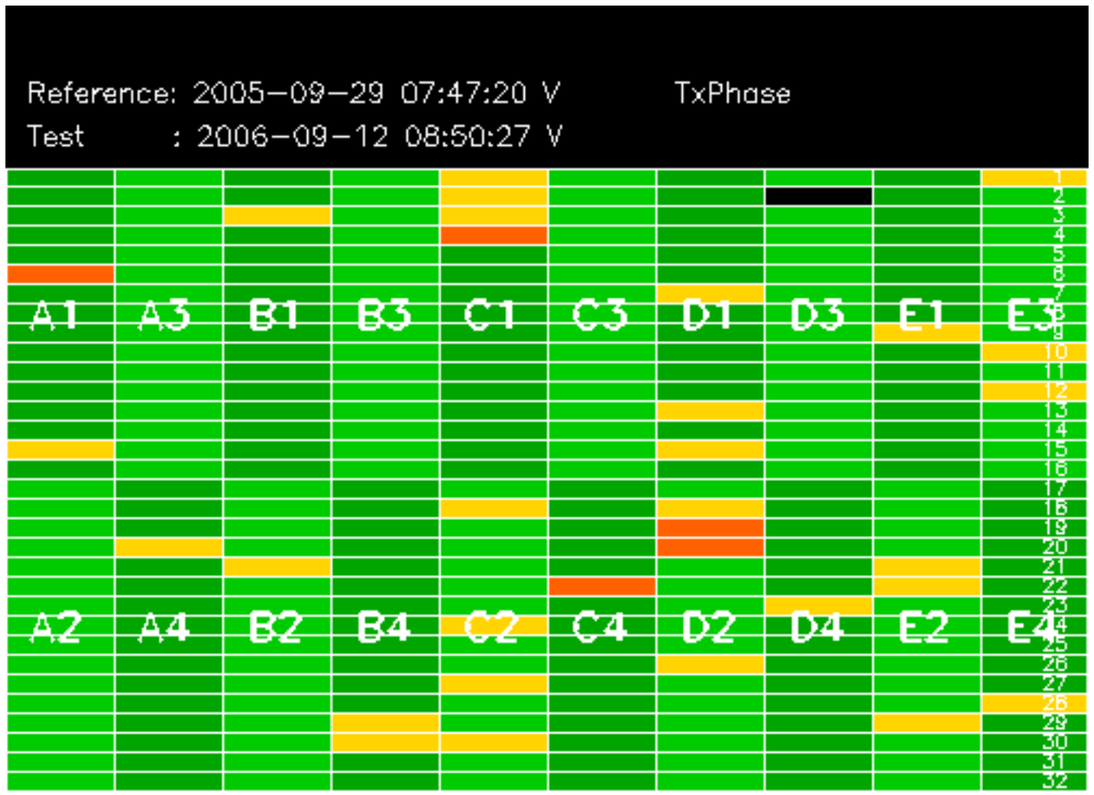
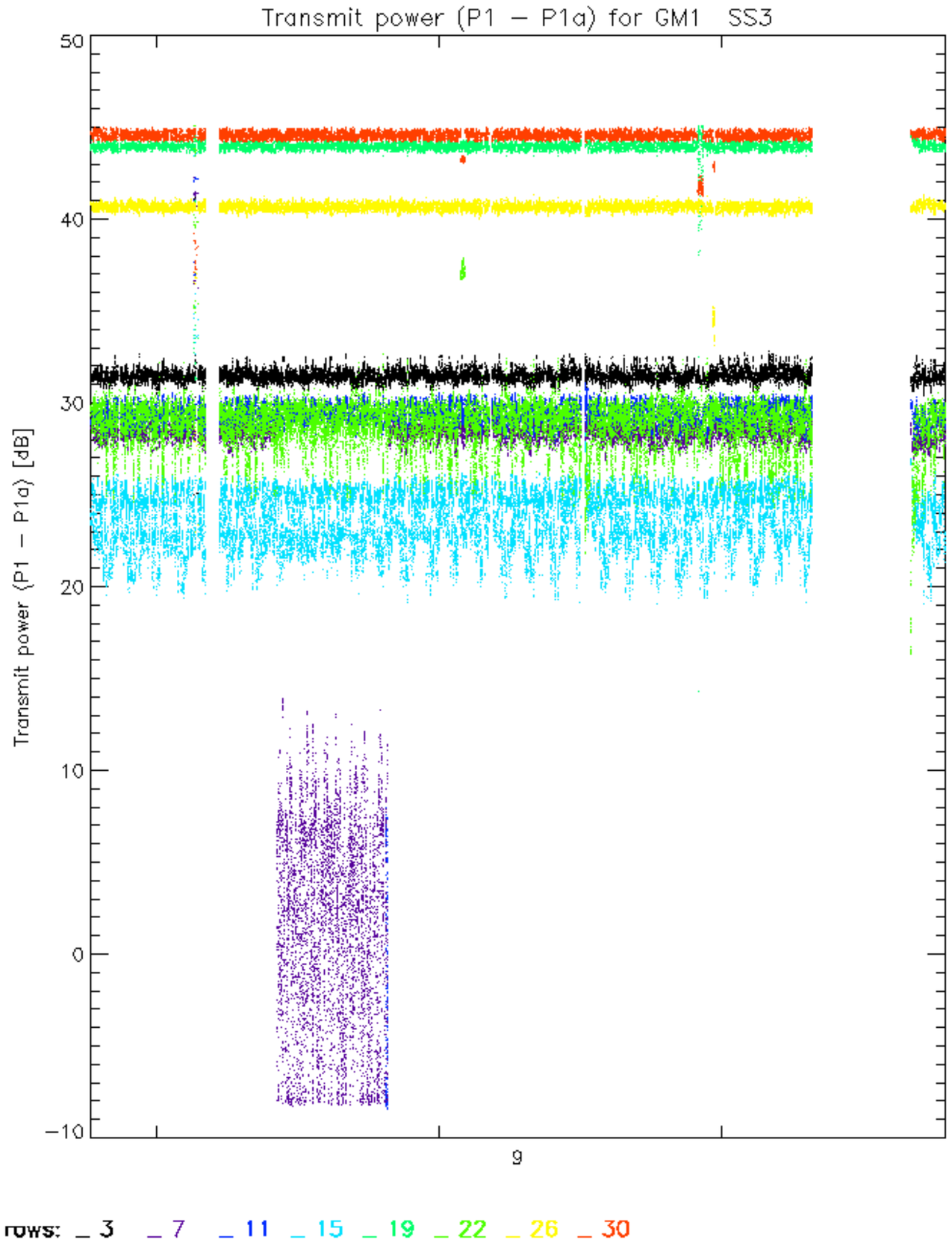
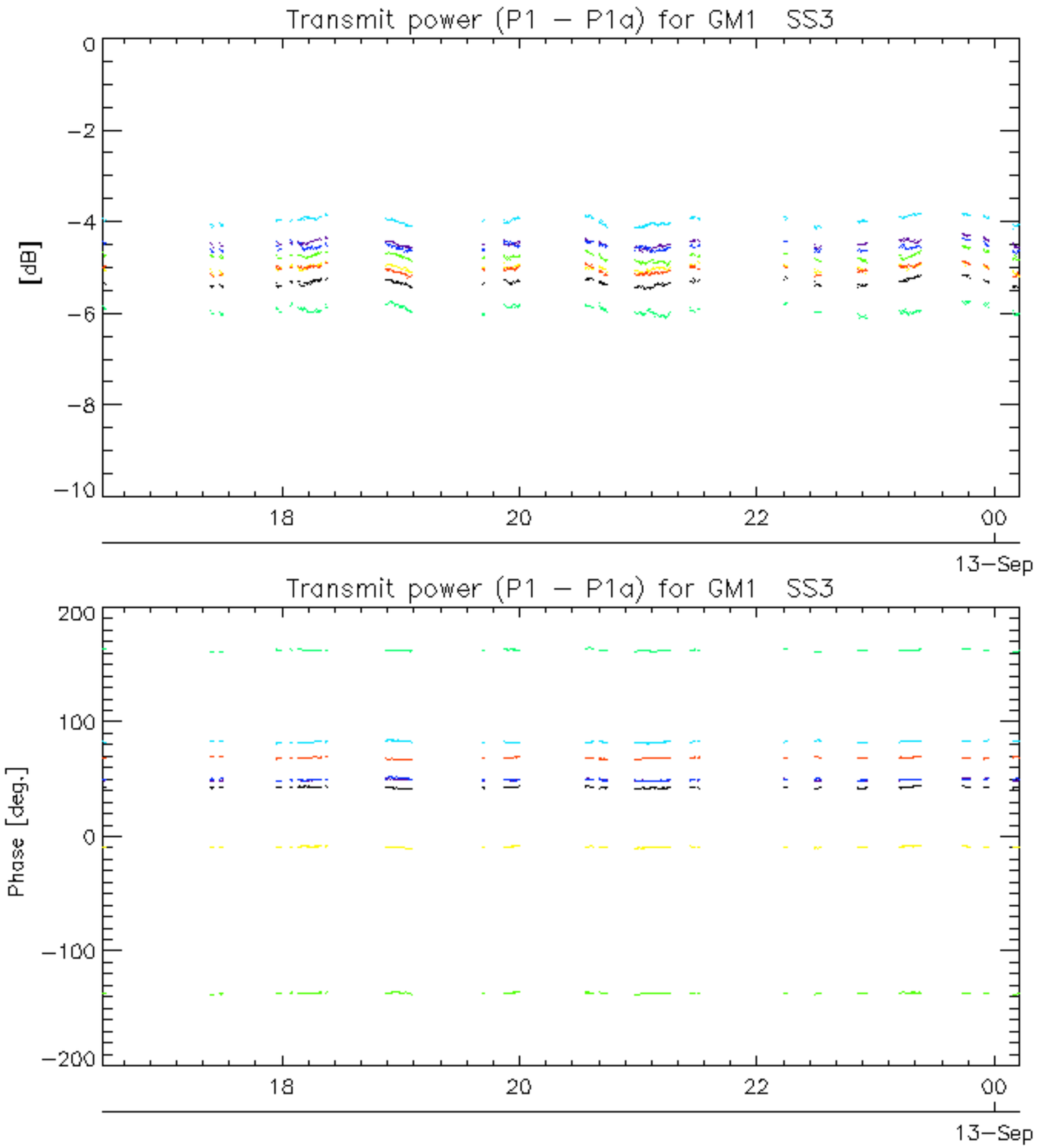
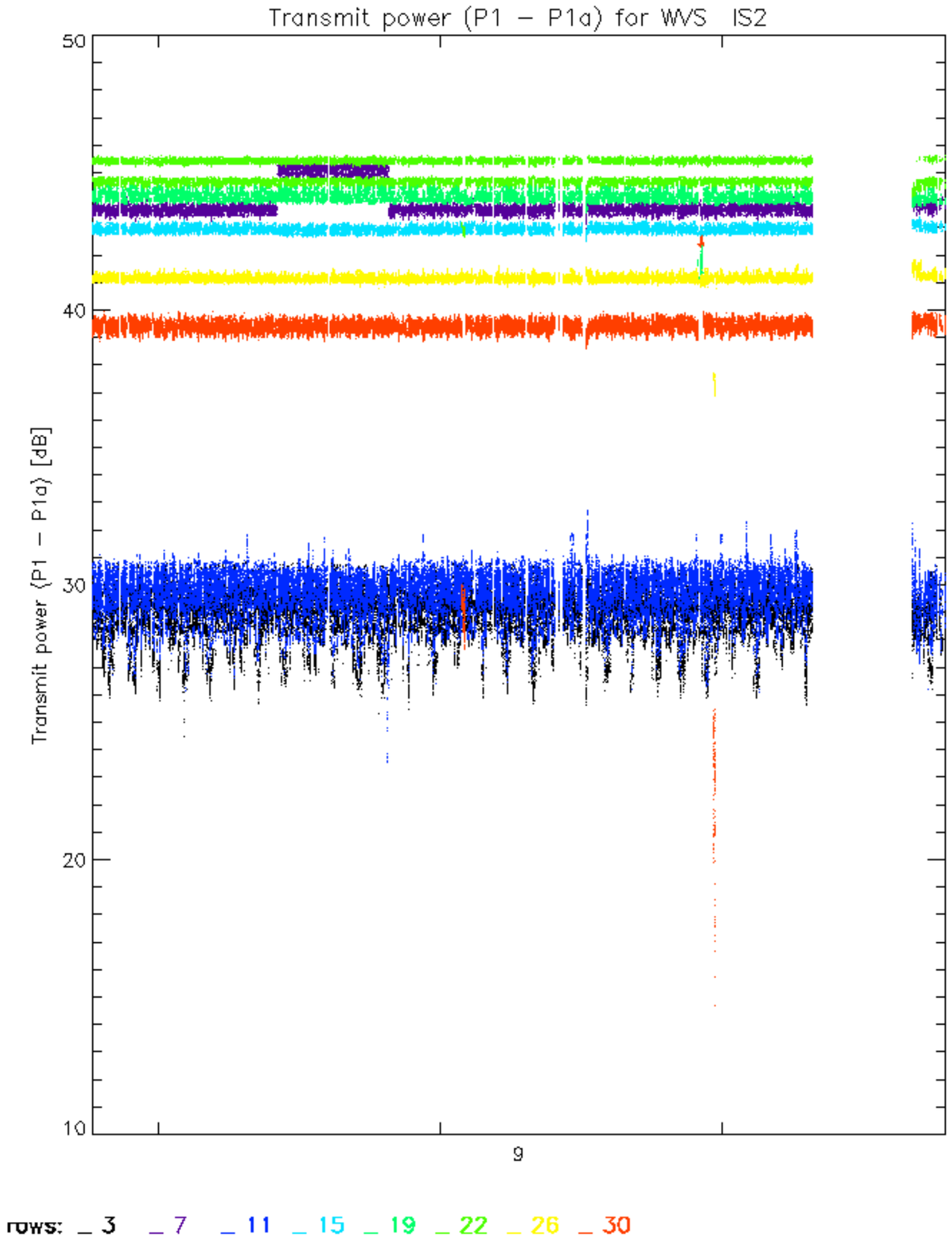
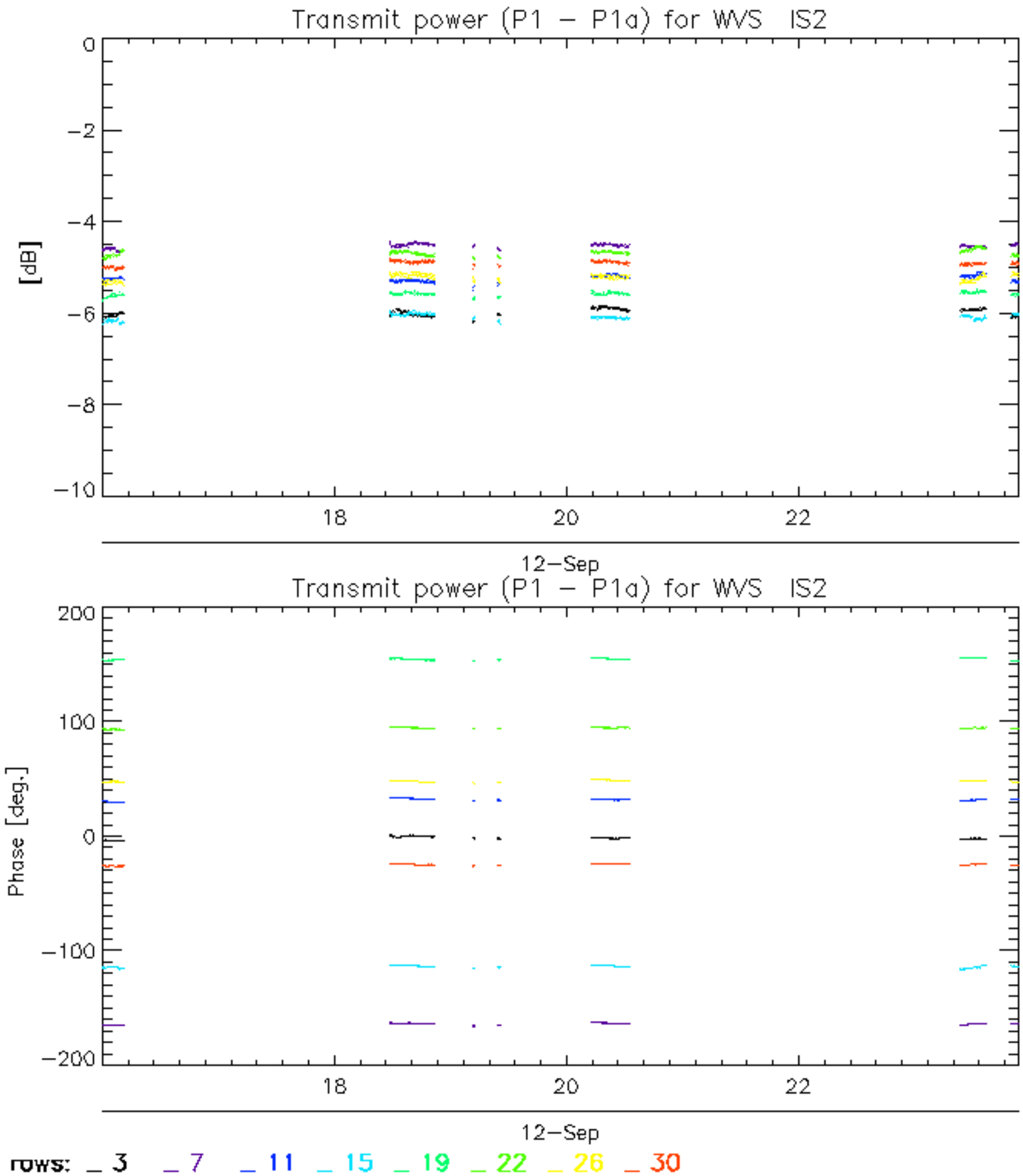

Reference: 2001-02-09 14:08:23 V
Test : 2006-09-12 08:50:27 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-09-12 08:50:27 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
9
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
20
22
00
13–Sep
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
20
22
00
13–Sep
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
50
40
30
20
10
Transmit power (P1 – P1a) [dB]
9
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
18
20
22
12–Sep
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
20
22
12–Sep
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.