PRELIMINARY REPORT OF 050914

last update on Wed Sep 14 16:56:48 GMT 2005

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 2005-09-13 00:00:00 to 2005-09-14 16:56:48

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	33	60	13	2	12
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	33	60	13	2	12
ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_000000	33	60	13	2	12
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	33	60	13	2	12

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	34	45	27	14	38
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	34	45	27	14	38
ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_000000	34	45	27	14	38
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	34	45	27	14	38

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	20050913 042900
H	20050912 050037

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
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P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.285396	0.006692	0.013668
7	P1	-3.177040	0.010114	-0.024991
11	P1	-4.735463	0.032641	-0.046193
15	P1	-5.629661	0.046827	-0.044786
19	P1	-3.822520	0.004453	-0.025777
22	P1	-4.620380	0.011976	-0.015246
26	P1	-4.827500	0.023132	-0.010893
30	P1	-7.267318	0.024391	-0.062963
3	P1	-15.538522	0.069844	0.024310
7	P1	-15.592104	0.081935	-0.029190
11	P1	-21.832726	0.381317	-0.105030
15	P1	-11.325871	0.096765	0.030473
19	P1	-14.532084	0.033722	-0.038454
22	P1	-15.489800	0.326450	0.188453
26	P1	-17.221706	0.164154	0.123033
30	P1	-17.886301	0.320548	-0.147741

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.712019	0.088588	0.110784
7	P2	-21.852640	0.102842	0.088777
11	P2	-13.405334	0.116606	0.174449
15	P2	-7.039462	0.096853	0.000466
19	P2	-9.574415	0.102392	0.014429
22	P2	-16.799412	0.103629	0.016464
26	P2	-16.501982	0.104234	-0.004282
30	P2	-18.804102	0.091999	-0.009429

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.156394	0.004022	-0.009691
7	P3	-8.156394	0.004022	-0.009691
11	P3	-8.156394	0.004022	-0.009691
15	P3	-8.156394	0.004022	-0.009691
19	P3	-8.156394	0.004022	-0.009691
22	P3	-8.156394	0.004022	-0.009691
26	P3	-8.156400	0.004022	-0.009678
30	P3	-8.156400	0.004022	-0.009678

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	-2.778848	0.013090	0.004340
7	P1	-2.955934	0.037587	0.008797
11	P1	-4.044123	0.028295	-0.041866
15	P1	-3.633237	0.026414	-0.046190
19	P1	-3.634149	0.014027	0.004619
22	P1	-5.712935	0.040734	-0.026906
26	P1	-7.359766	0.030328	0.019708
30	P1	-6.288291	0.067942	0.019374
3	P1	-10.959719	0.047323	-0.068638
7	P1	-10.500575	0.150131	0.005244
11	P1	-12.667315	0.098735	-0.073926
15	P1	-11.652914	0.095623	-0.018783
19	P1	-15.458852	0.053640	0.041718
22	P1	-25.426365	1.917969	0.080875
26	P1	-15.160268	0.229975	0.191594
30	P1	-20.078587	1.348478	0.144886

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.416927	0.049937	0.139486
7	P2	-21.967707	0.033877	0.071685
11	P2	-9.454024	0.067953	0.179206
15	P2	-5.074047	0.036971	0.035539
19	P2	-6.838977	0.056062	0.045702
22	P2	-7.017929	0.042554	0.040081
26	P2	-23.946770	0.033788	0.020178
30	P2	-21.926325	0.042354	0.017066

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.001226	0.004129	-0.008264
7	P3	-8.001277	0.004134	-0.008318
11	P3	-8.001191	0.004127	-0.008174
15	P3	-8.001184	0.004138	-0.008039
19	P3	-8.001292	0.004126	-0.008419
22	P3	-8.001073	0.004127	-0.008241
26	P3	-8.001106	0.004139	-0.008766
30	P3	-8.001082	0.004134	-0.008349

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

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4.3.2 - Evolution for GM1

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5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000427581
	stdev	2.35170e-07
MEAN Q	mean	0.000449669
	stdev	2.43886e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.125536
	stdev	0.00106303
STDEV Q	mean	0.125790
	stdev	0.00107287

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005091[234]
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_1PNPDE20050913_115625_000002262040_00410_18500_5479.N1	1	0
ASA_WSM_1PNPDE20050912_011917_000003912040_00389_18479_8359.N1	0	67
ASA_WSM_1PNPDE20050912_035553_000001642040_00391_18481_8375.N1	0	21
ASA_WSM_1PNPDK20050912_122252_000003972040_00396_18486_3937.N1	0	21
ASA_WSM_1PNPDK20050912_122252_000003972040_00396_18486_3988.N1	0	21

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)

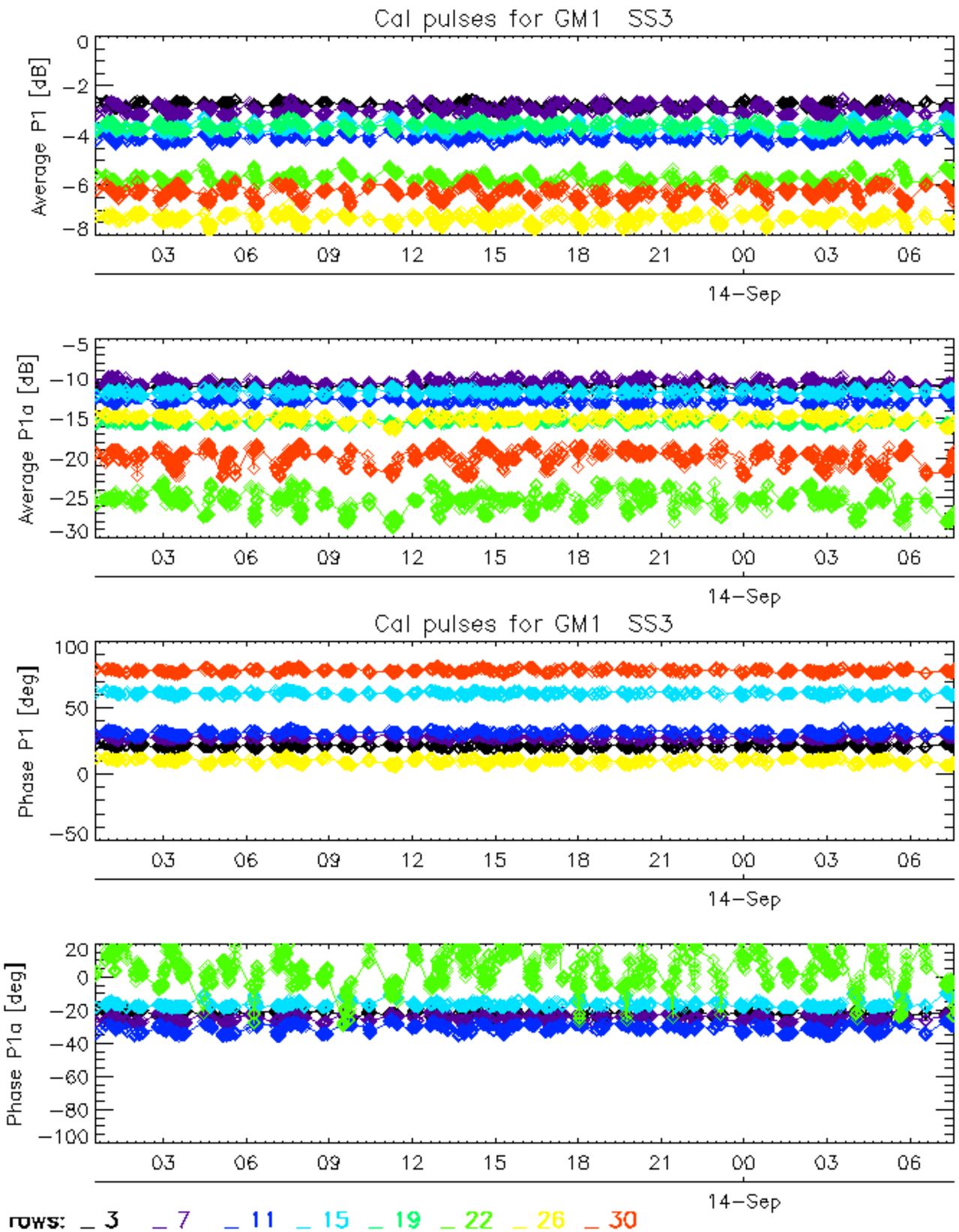

Acsending
☒
Descending

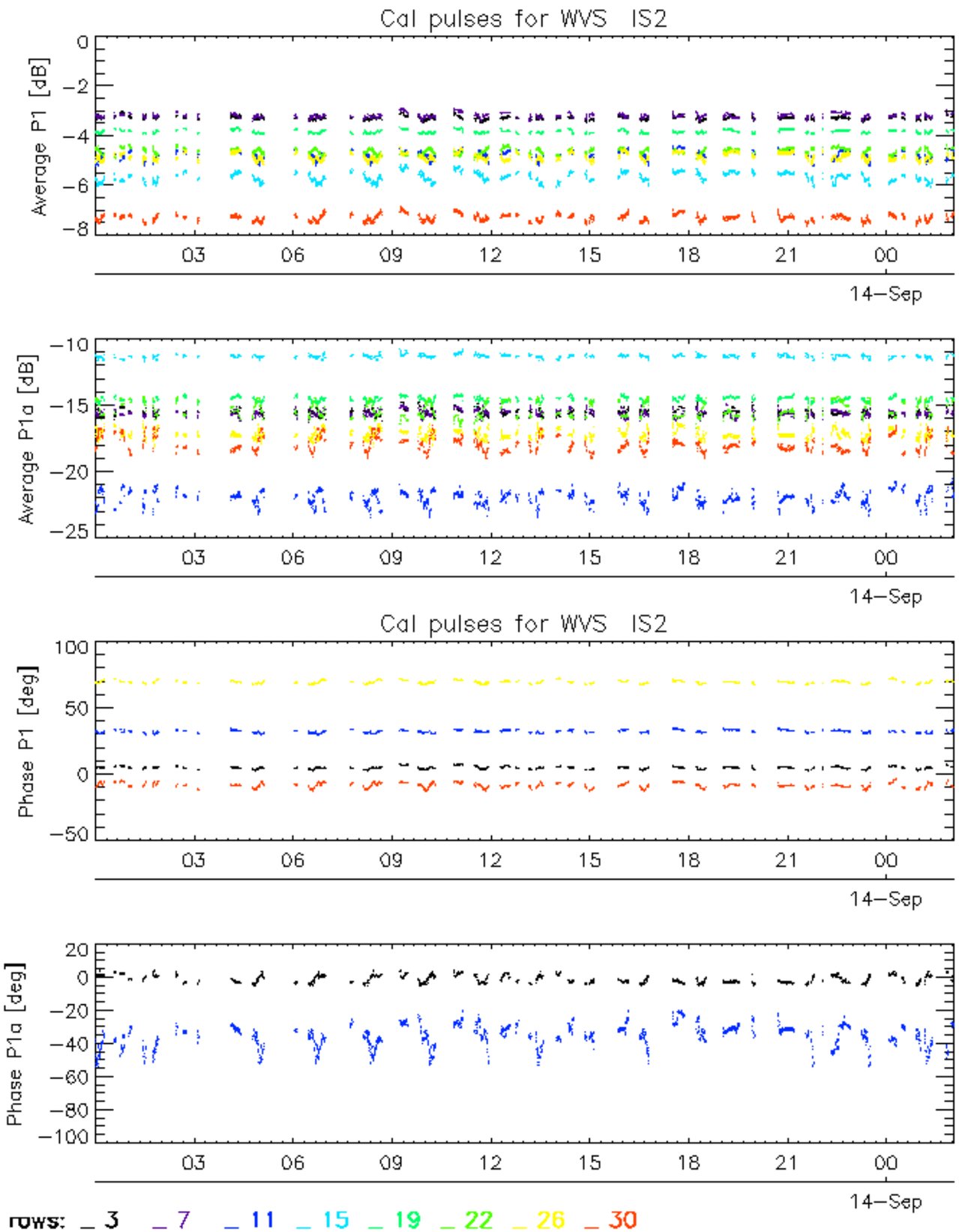
7.5 - Absolute Doppler for GM1

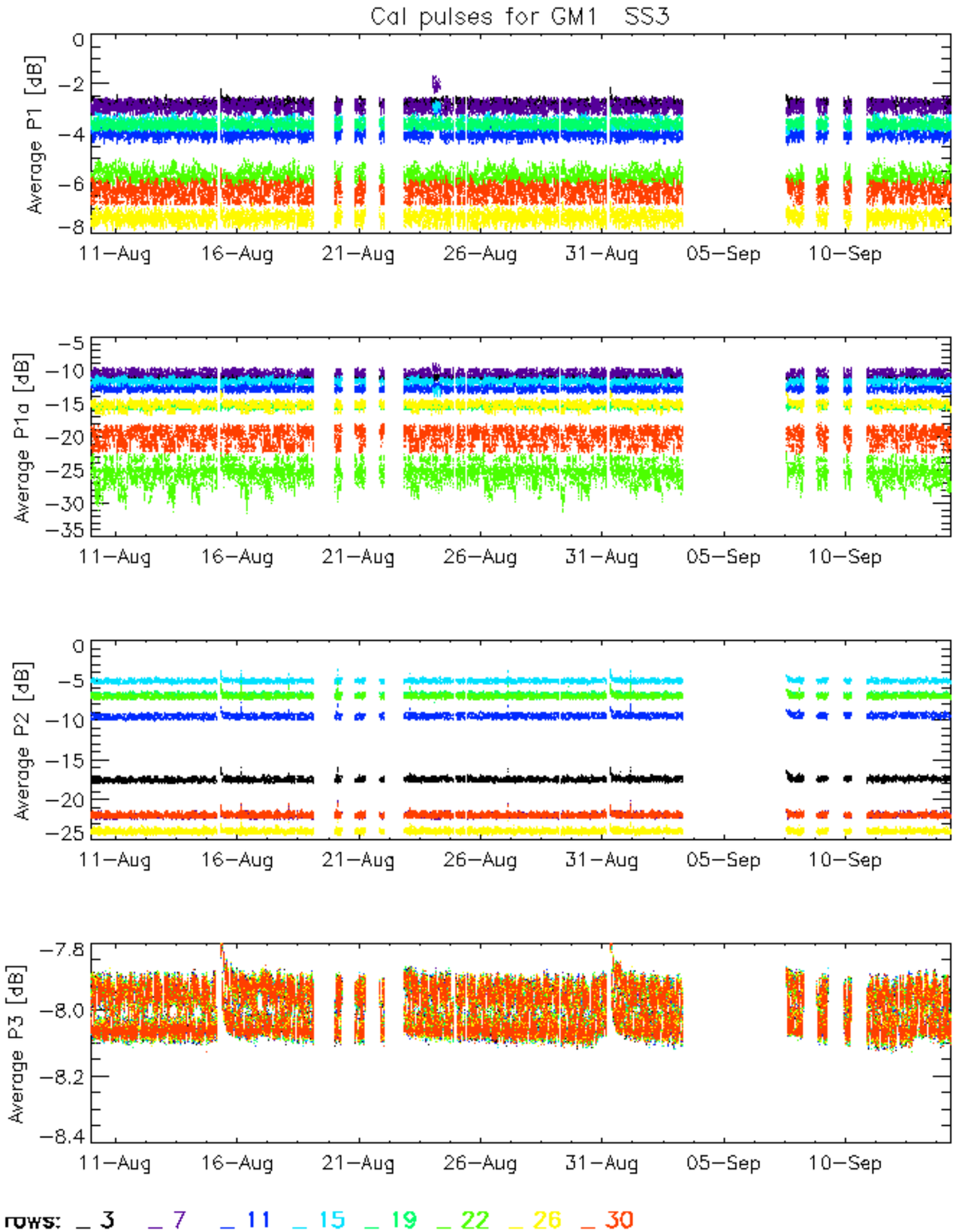
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

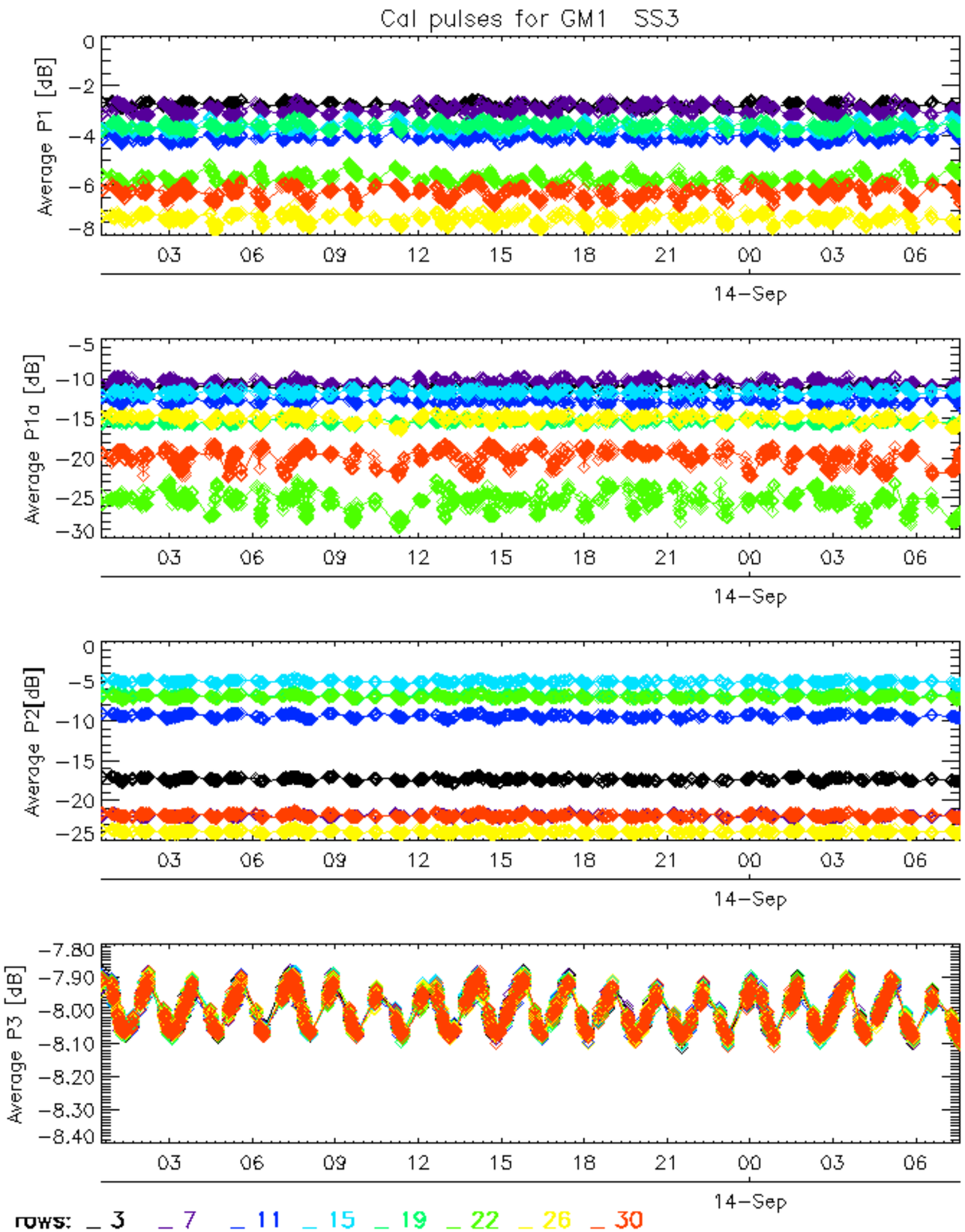
7.6 - Doppler evolution versus ANX for GM1

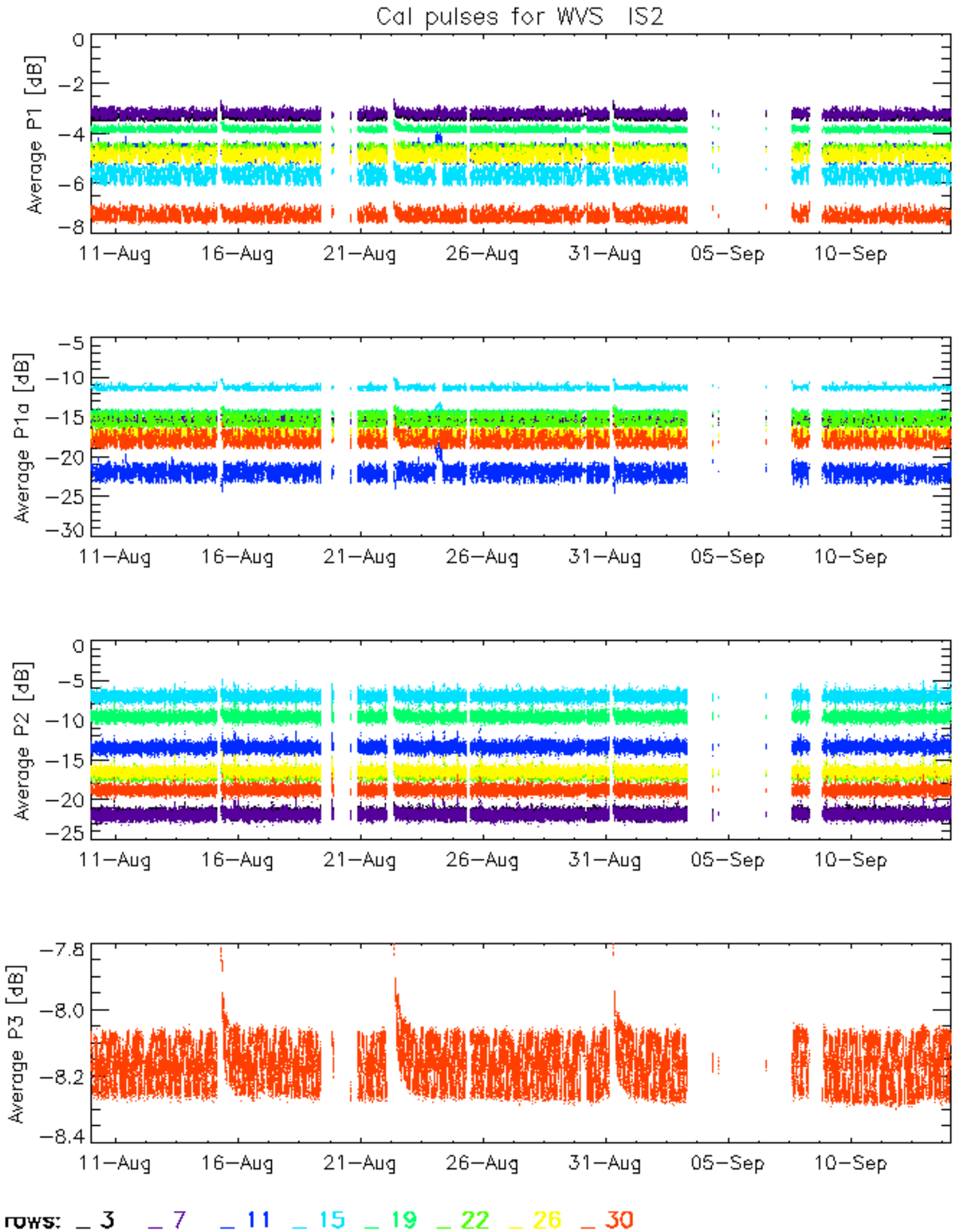
Evolution Doppler error versus ANX
☒

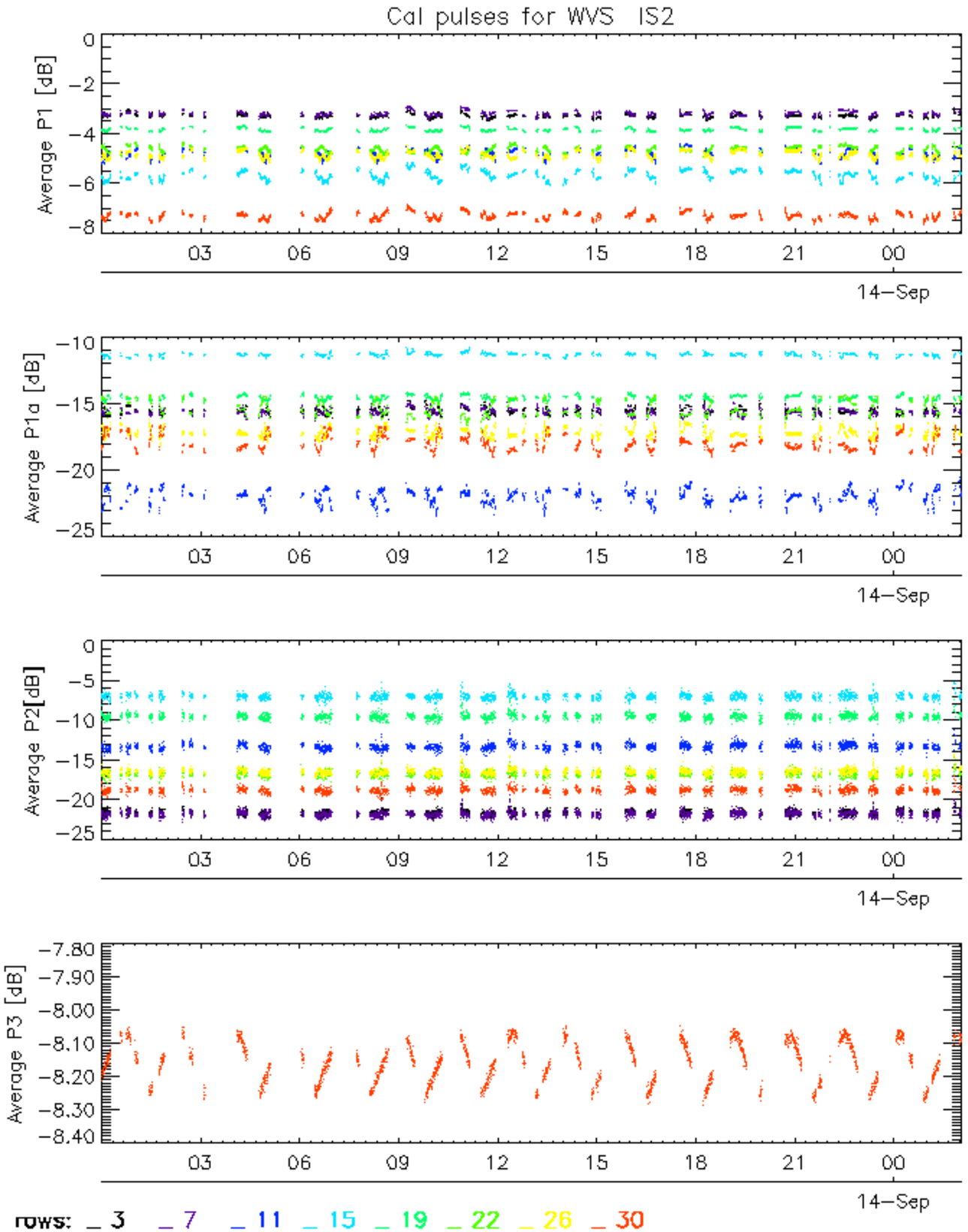

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
03
06
09
12
15
18
21
00
03
06
14−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Cal pulses for GM1 SS3
Phase P1 [deg]
100
50
0
−50
Phase P1a [deg]
20
0
−20
−40
−60
−80
−100
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
03
06
09
12
15
18
21
00
14−Sep
Average P1a [dB]
−10
−15
−20
−25
Cal pulses for WVS IS2
Phase P1 [deg]
100
50
0
−50
Phase P1a [deg]
20
0
−20
−40
−60
−80
−100
rows: 3 7 11 15 19 22 26 30

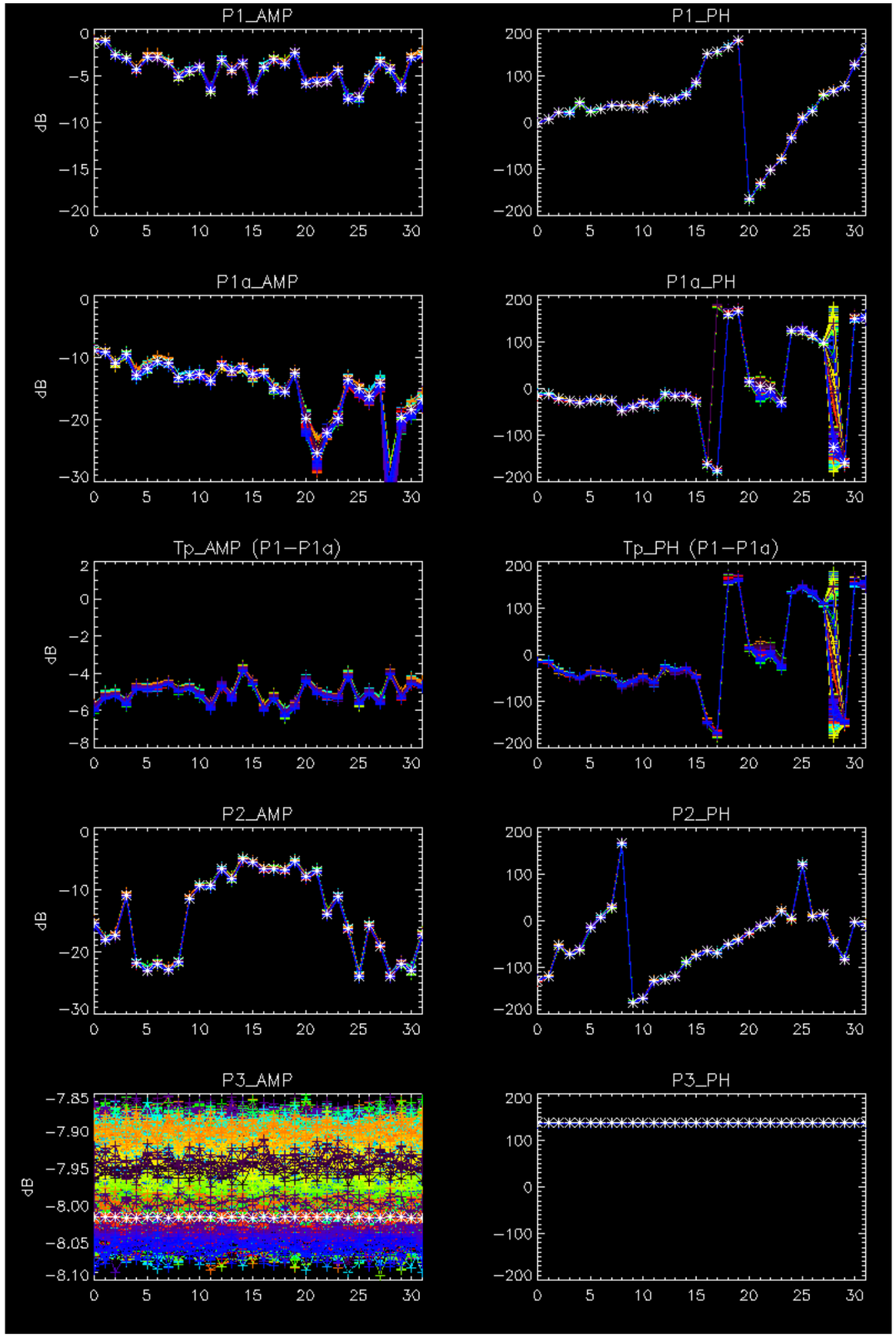

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
−5
−10
−15
−20
−25
−30
−35
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
11−Aug
16−Aug
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

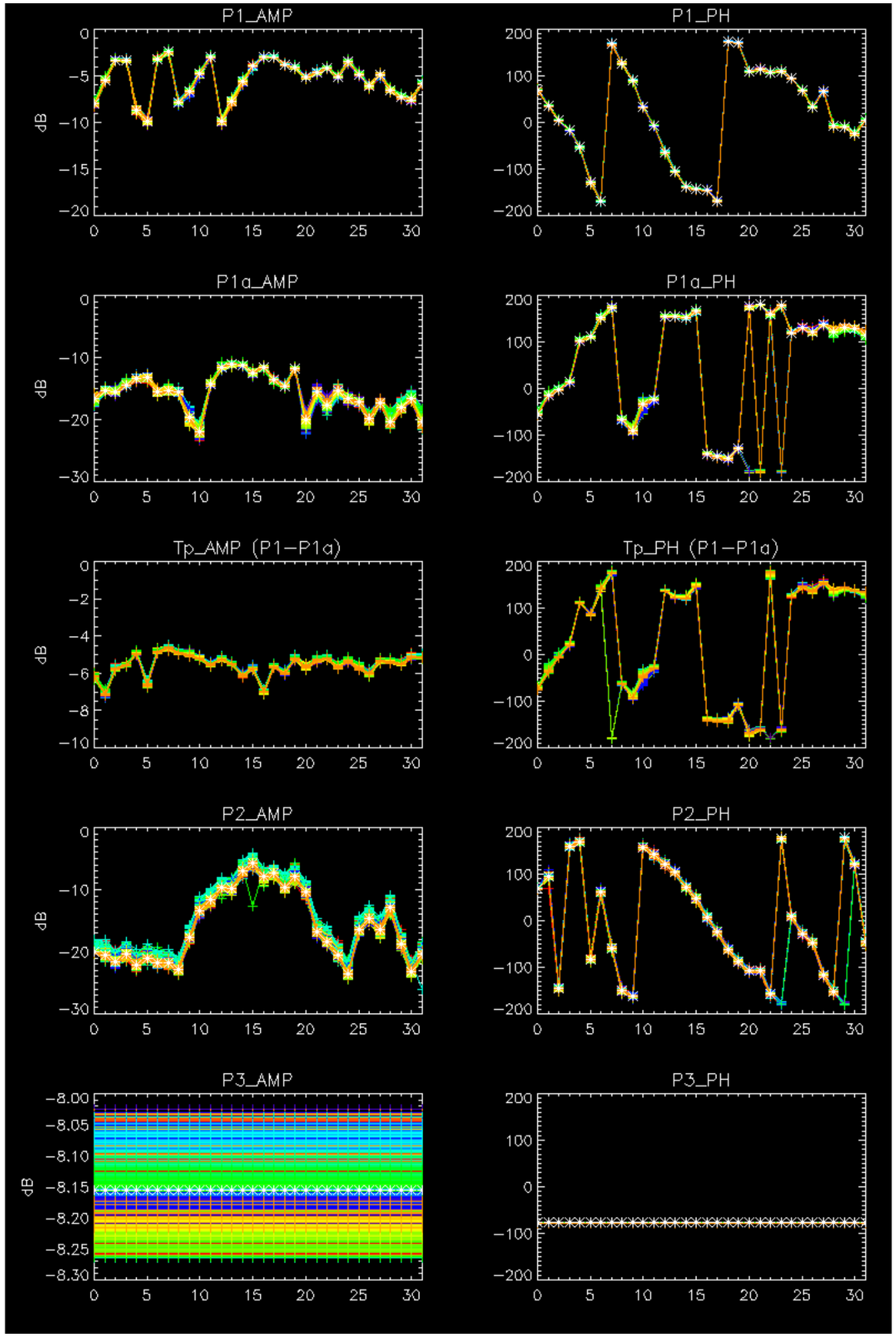

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
03
06
09
12
15
18
21
00
03
06
14−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2[dB]
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
11−Aug
16−Aug
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
−30
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 WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
03
06
09
12
15
18
21
00
14−Sep
Average P1a [dB]
−10
−15
−20
−25
Average P2[dB]
−5
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

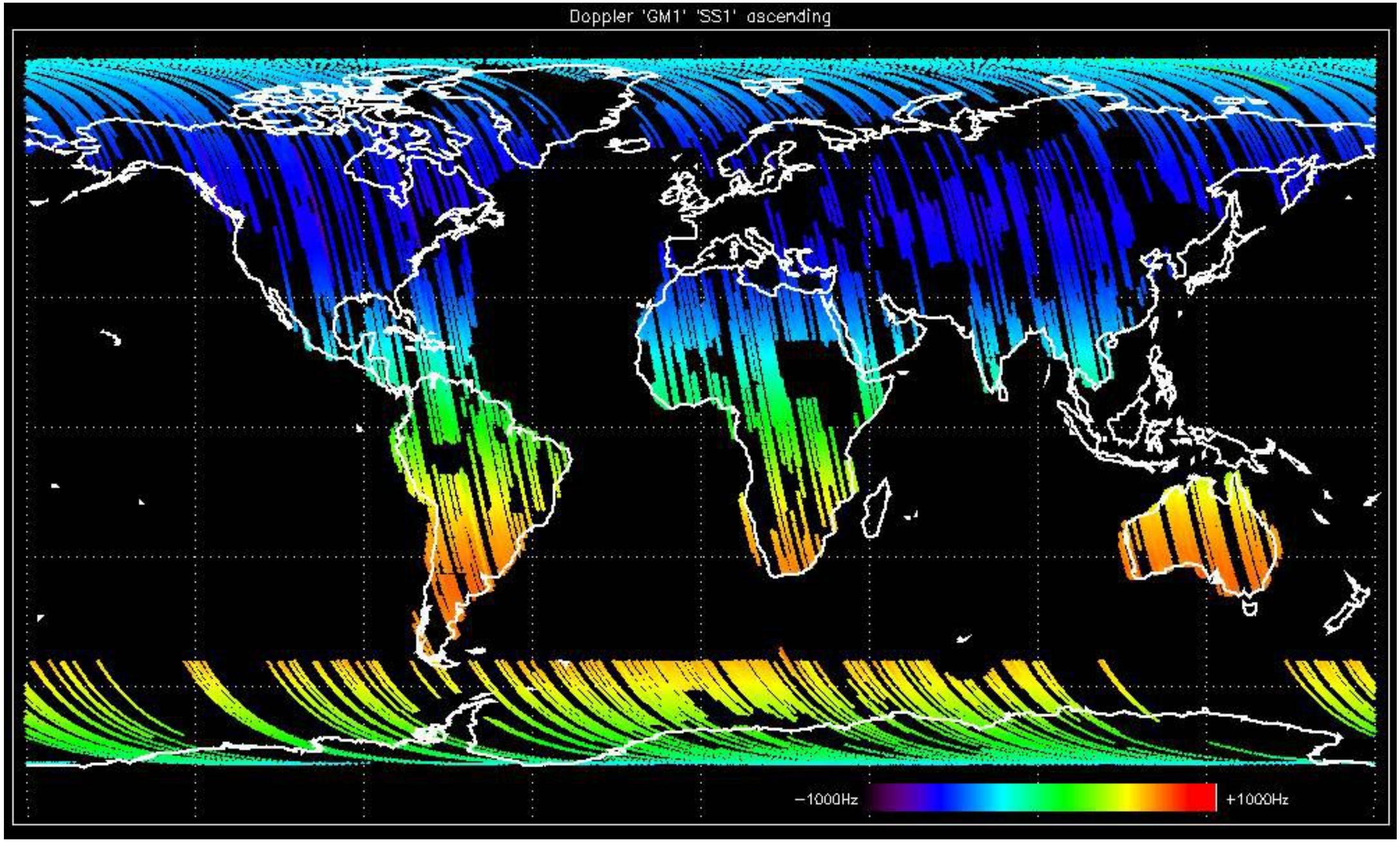
No anomalies observed.

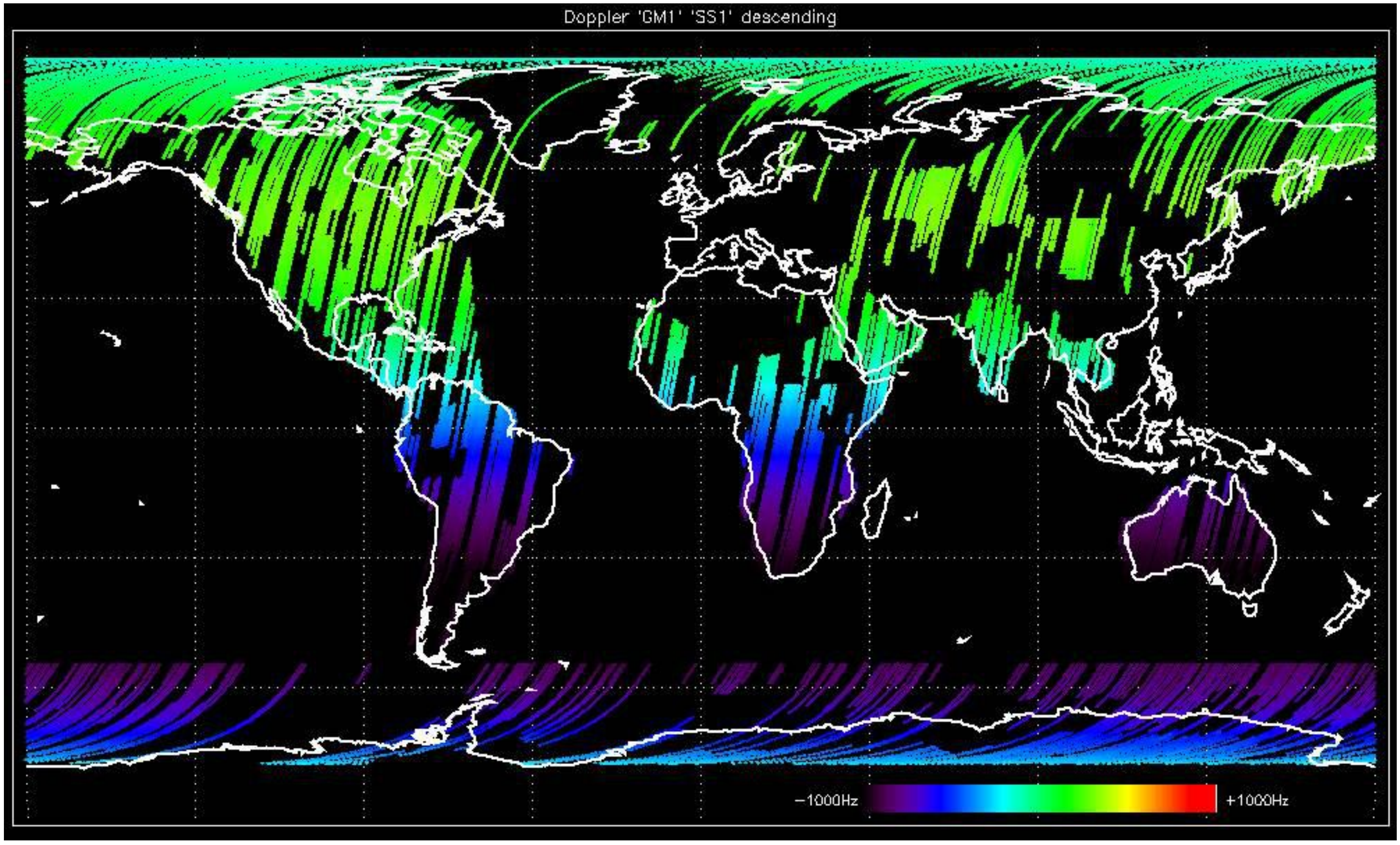

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

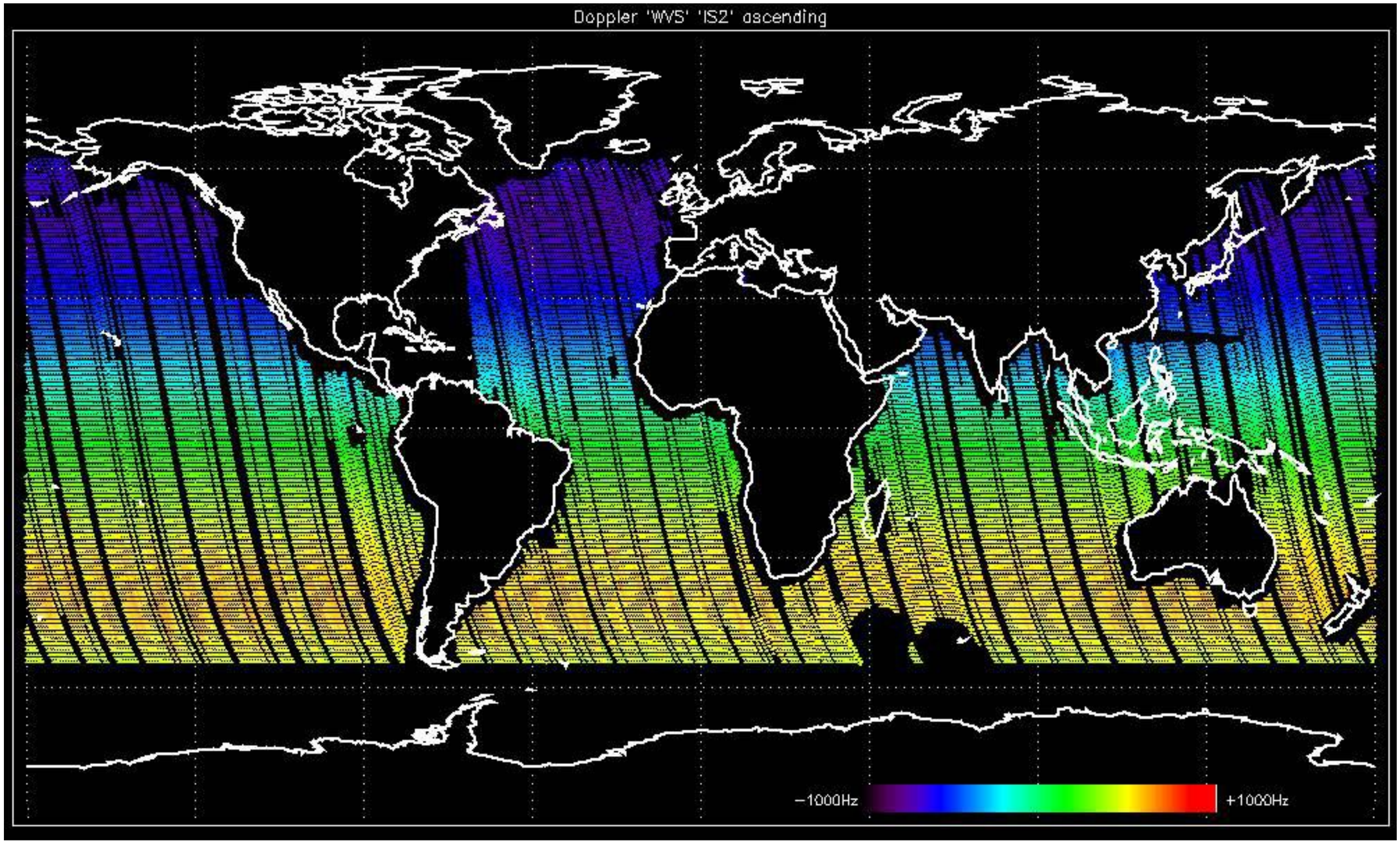

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

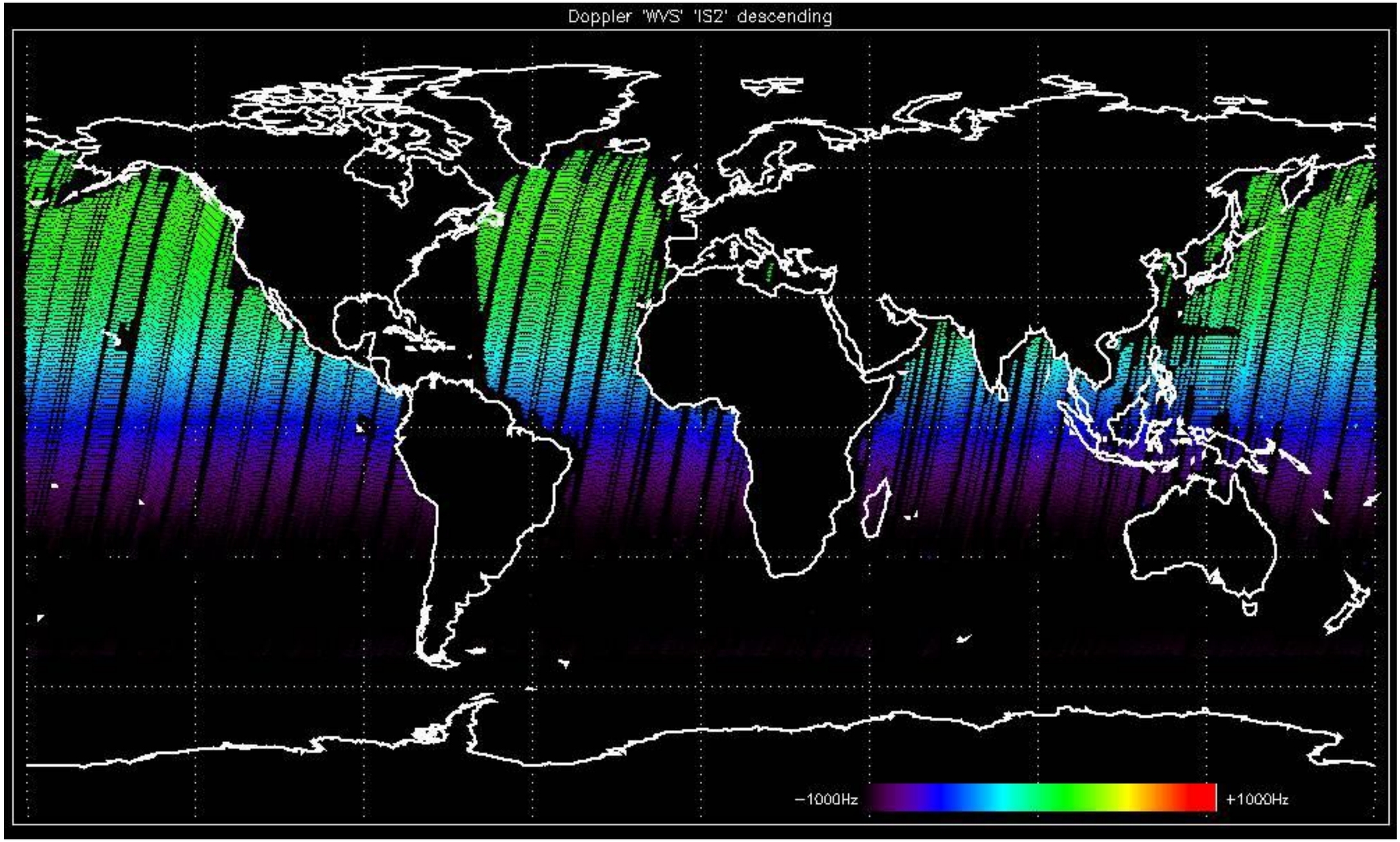
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

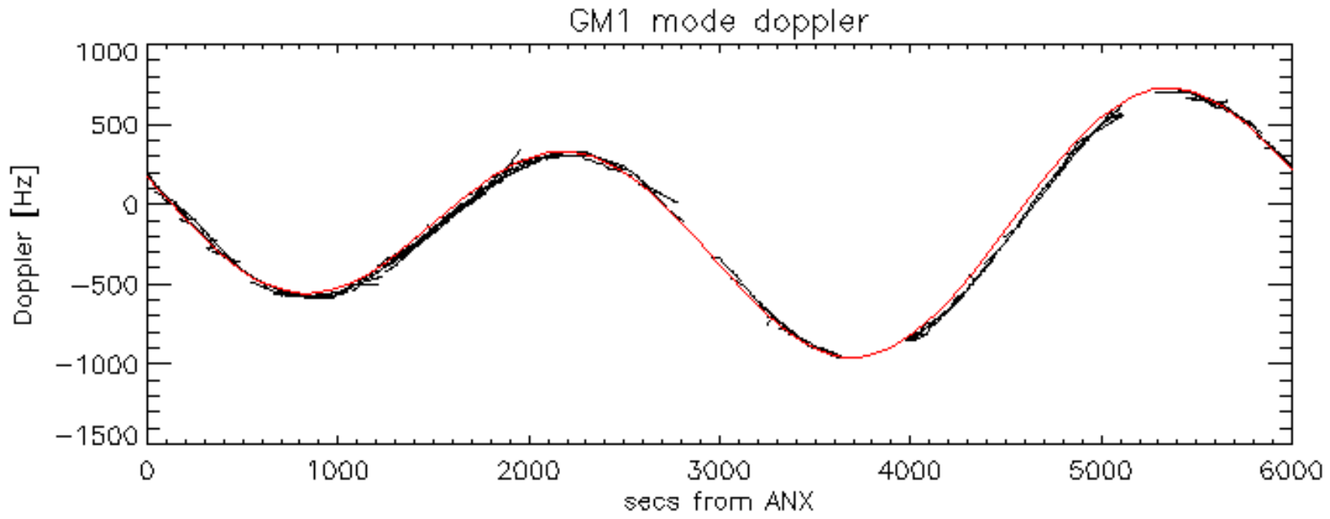
Preliminary report.The data is not yet controled

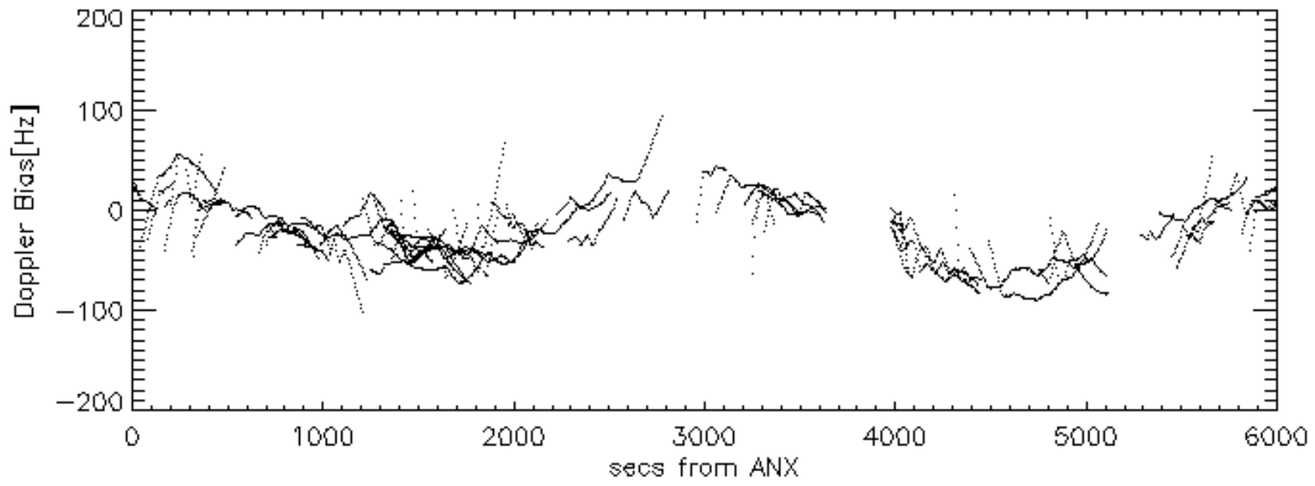

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

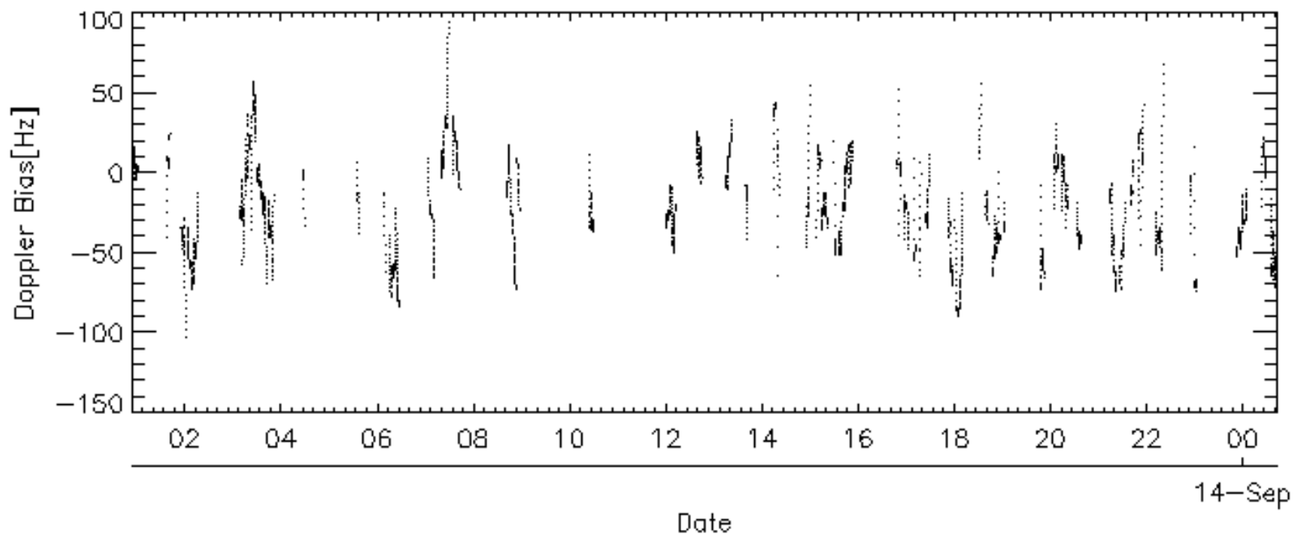

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

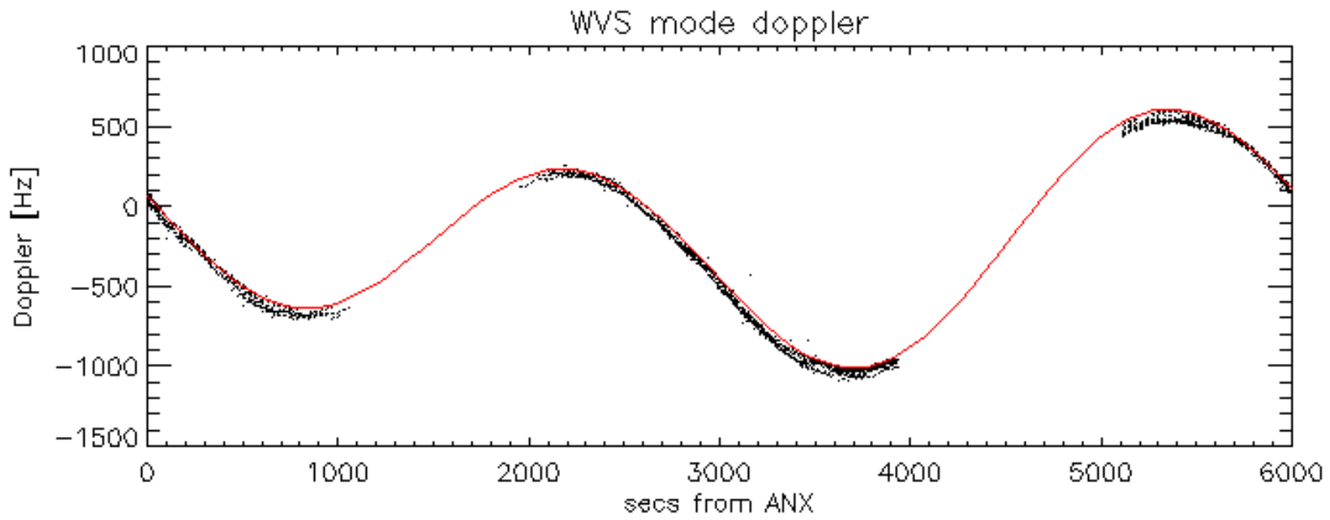

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

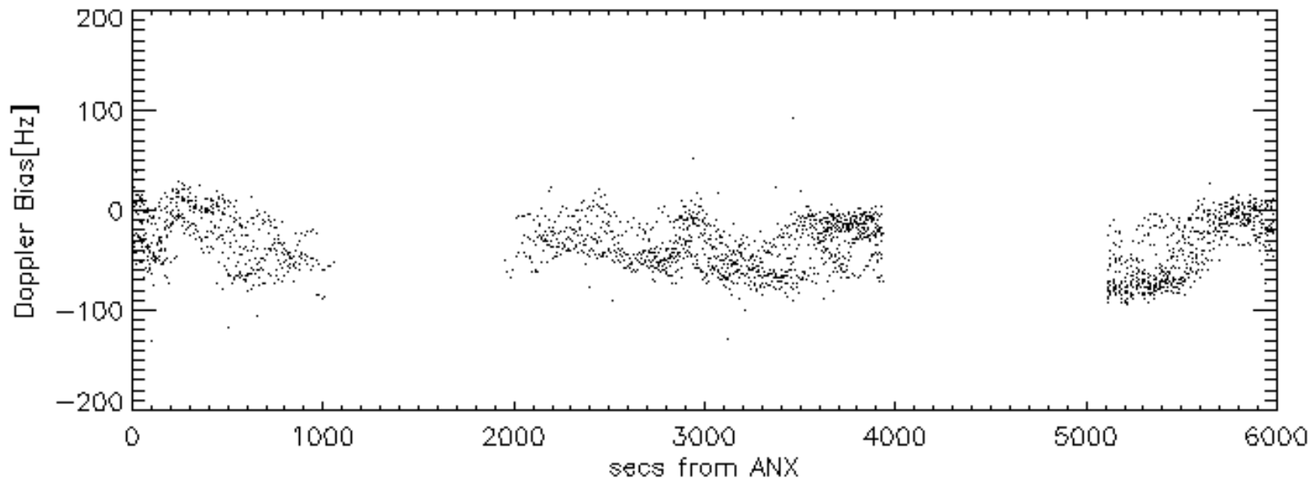

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

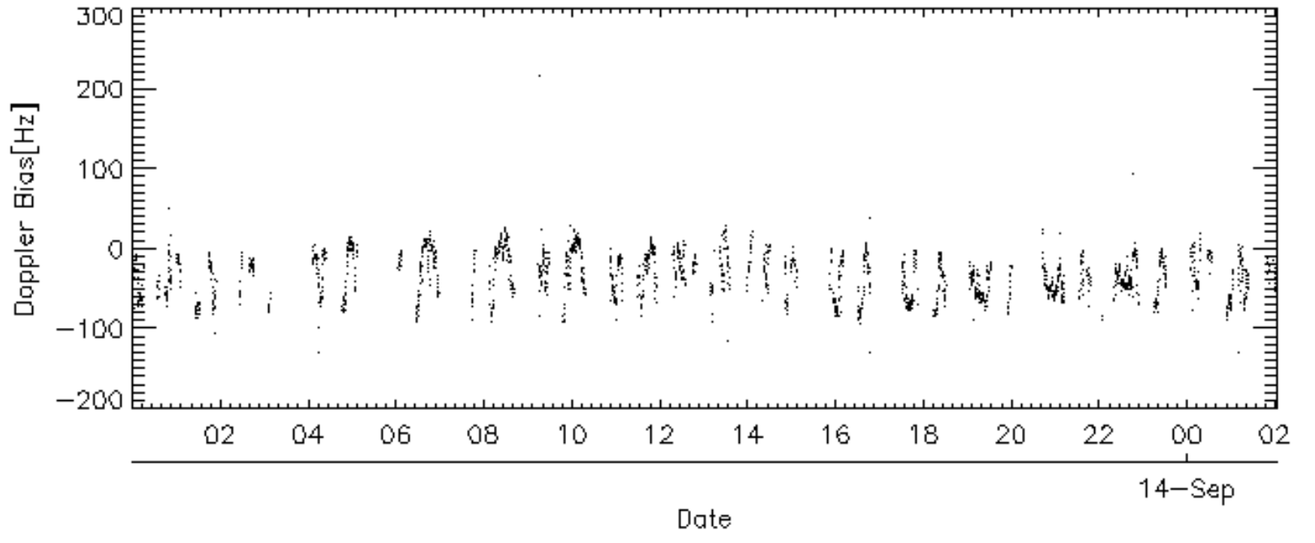

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

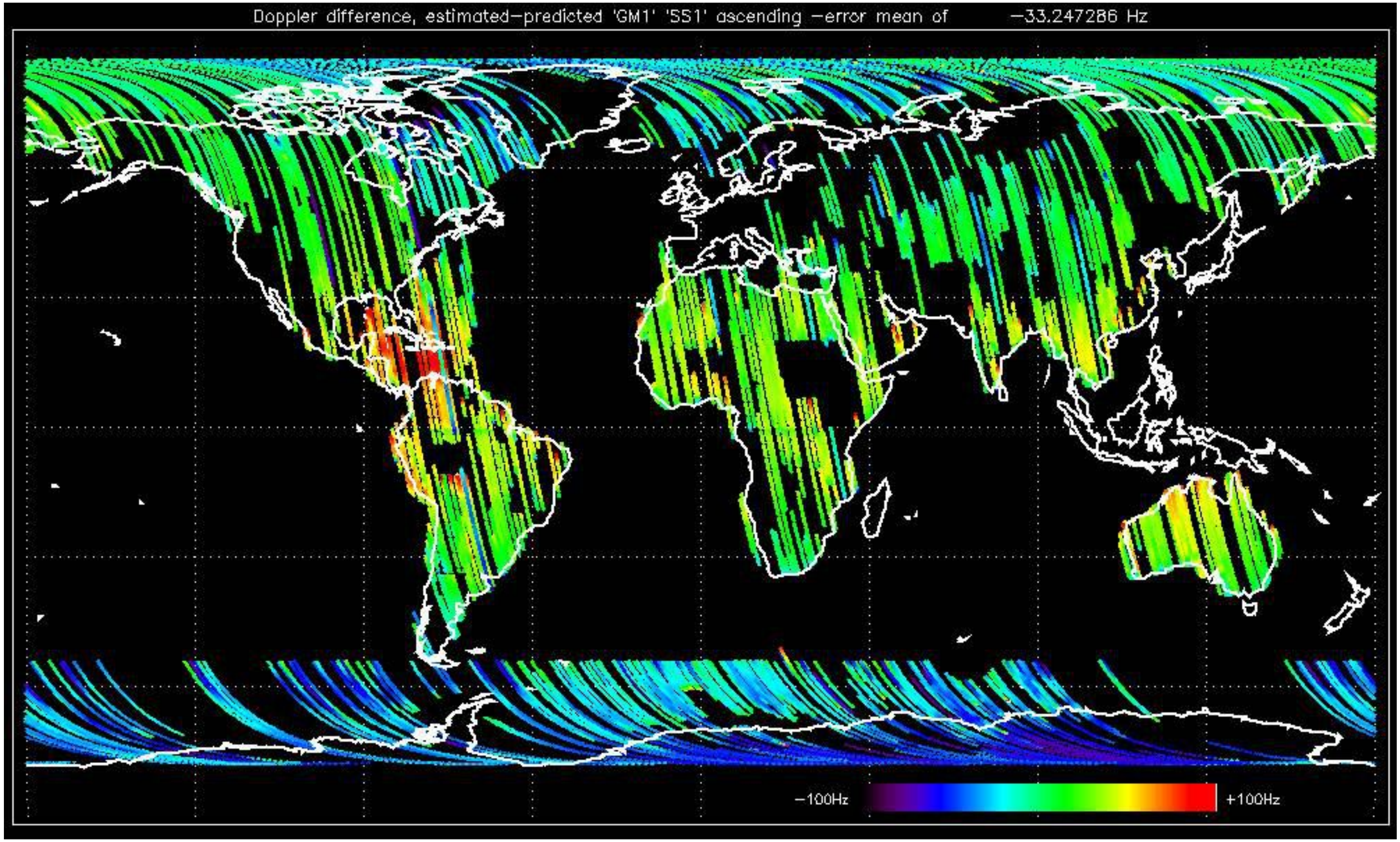

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

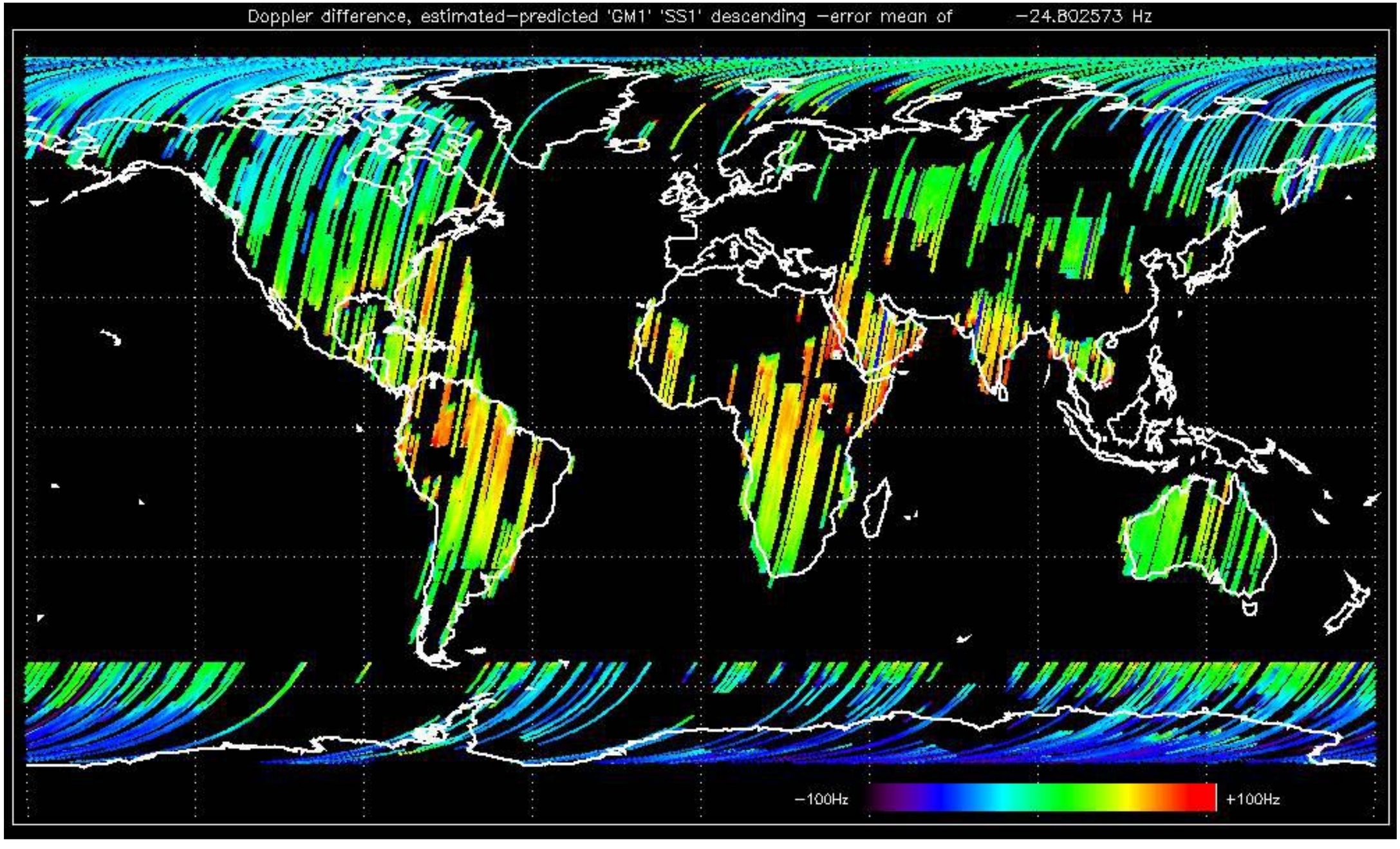

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
14−Sep
Date

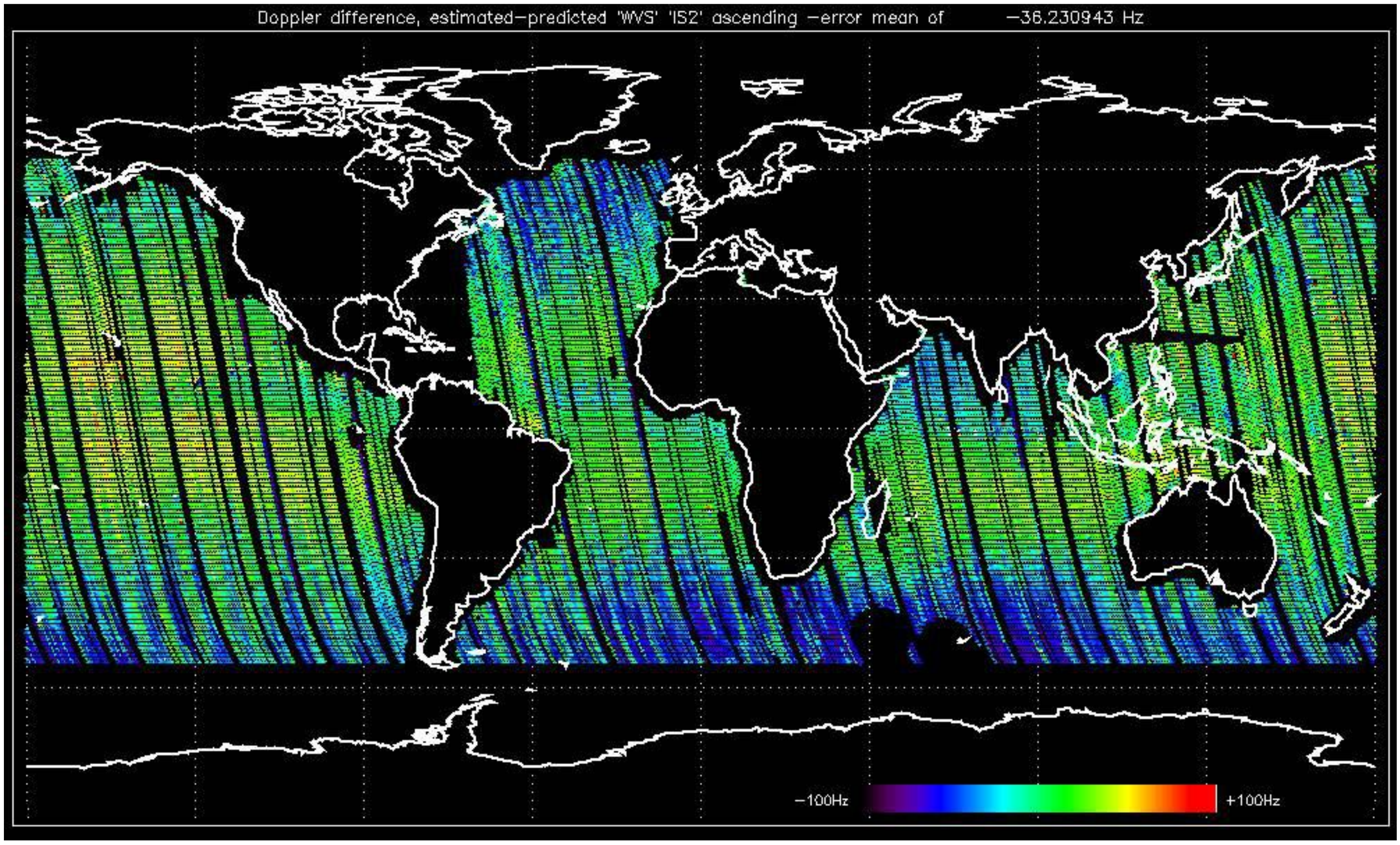

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

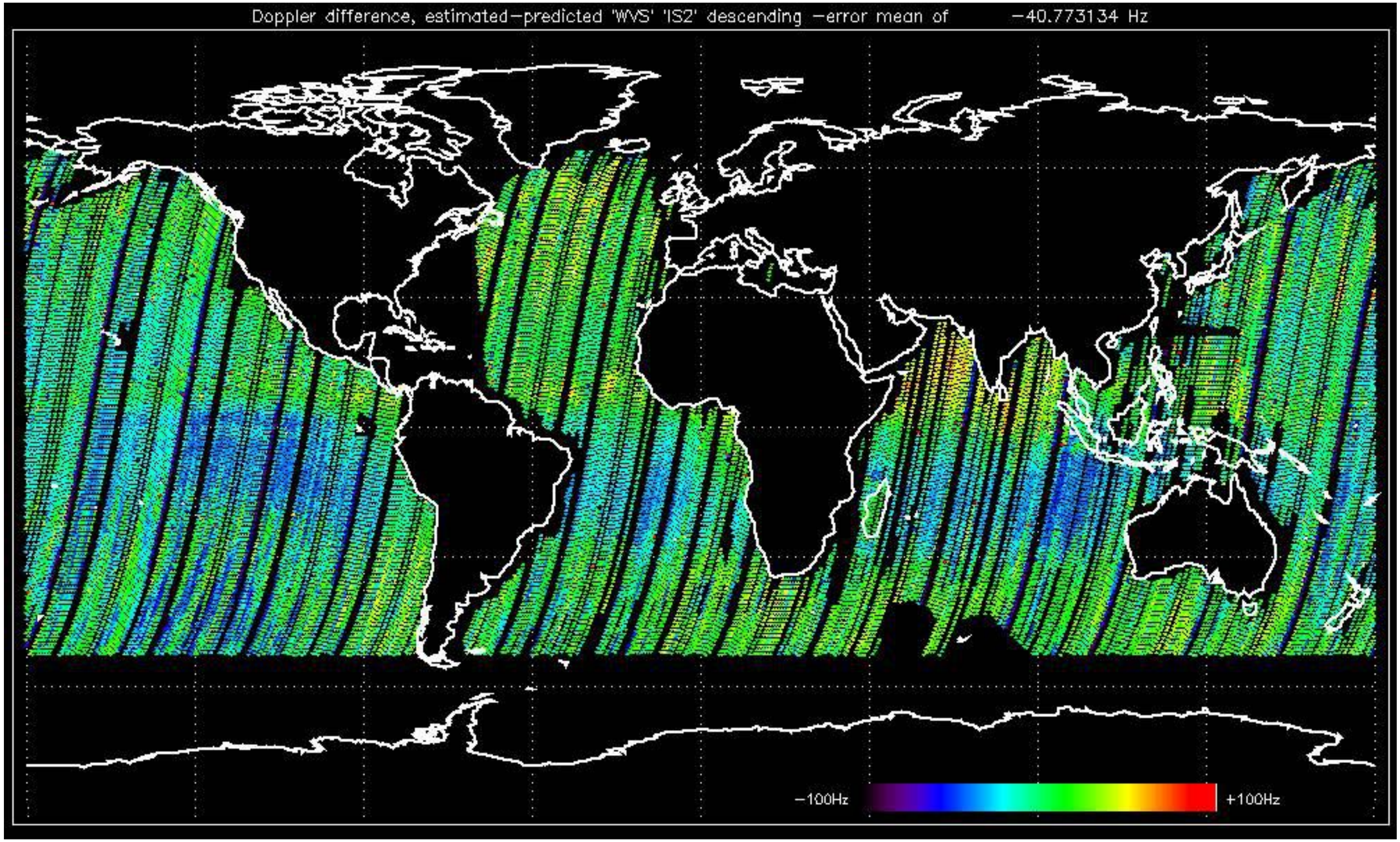

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −33.247286 Hz
−100Hz
+100Hz


Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -24.802573 Hz
-100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −36.230943 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −40.773134 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2005-09-12 05:00:37 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
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Reference: 2003-06-12 14:08:52 H
Test : 2005-09-12 05:00:37 H
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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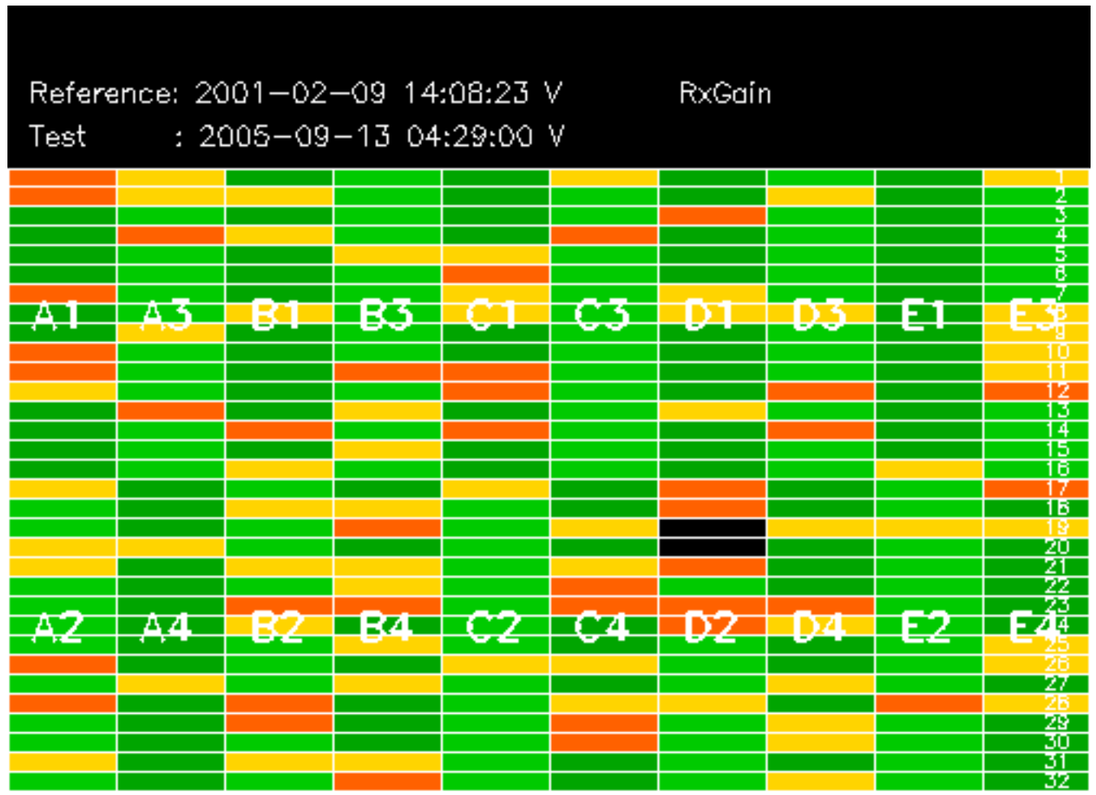
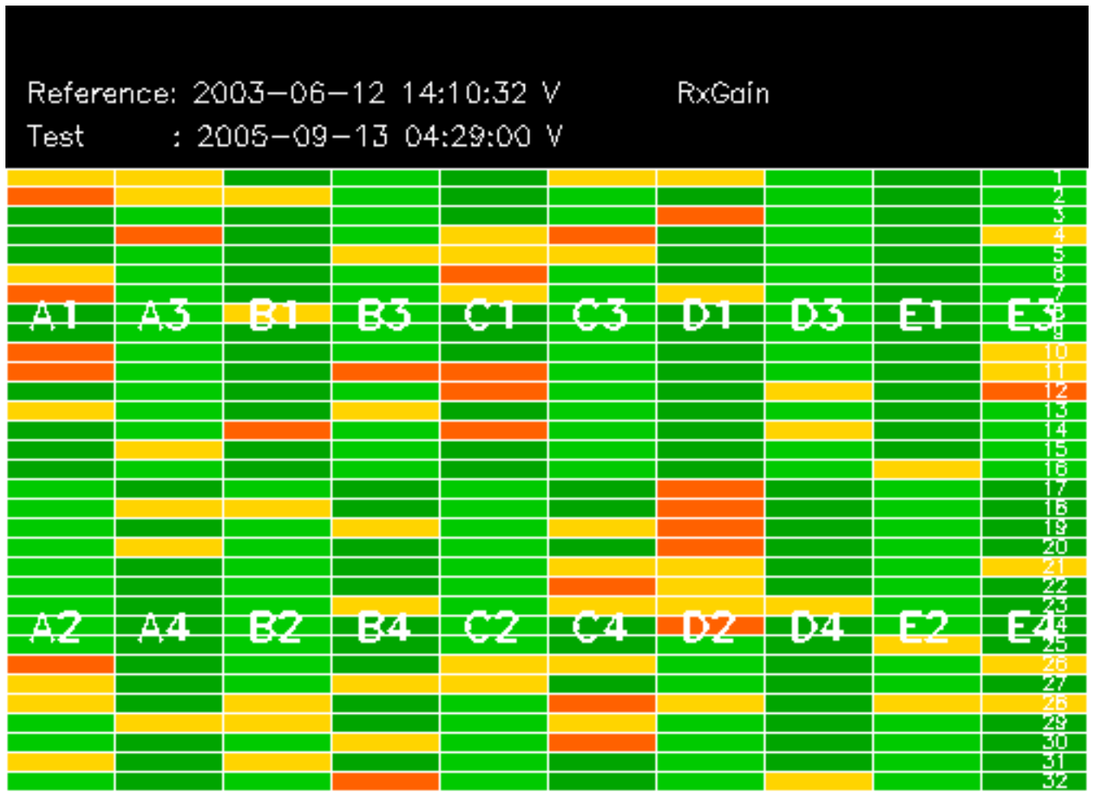

Reference: 2001-02-09 14:08:23 V
Test : 2005-09-13 04:29:00 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2003-06-12 14:10:32 V
Test : 2005-09-13 04:29:00 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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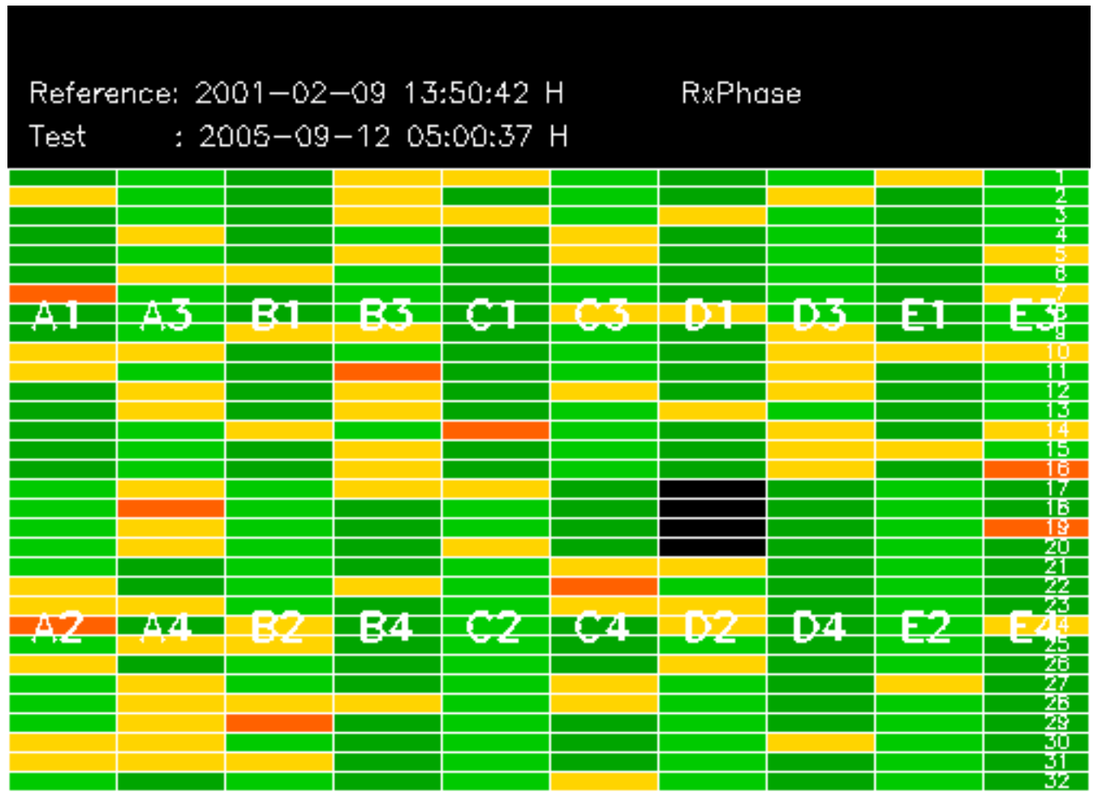
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2005-09-12 05:00:37 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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31
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Reference: 2003-06-12 14:08:52 H
Test : 2005-09-12 05:00:37 H
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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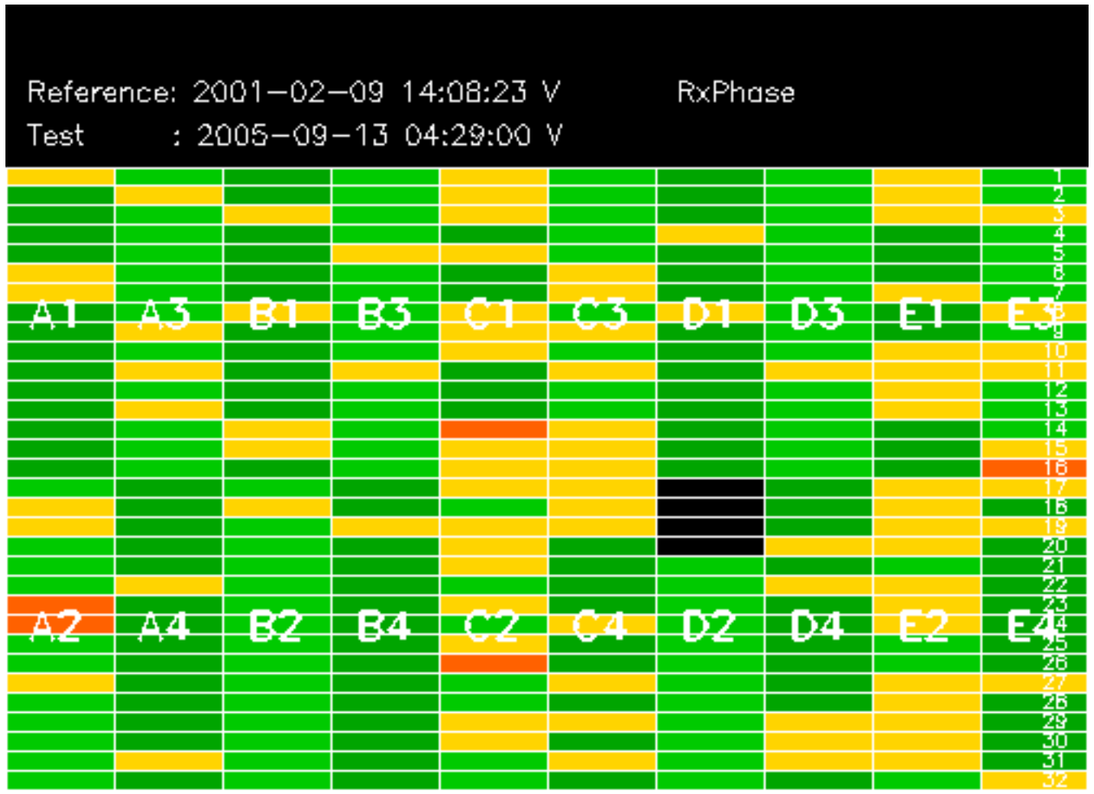
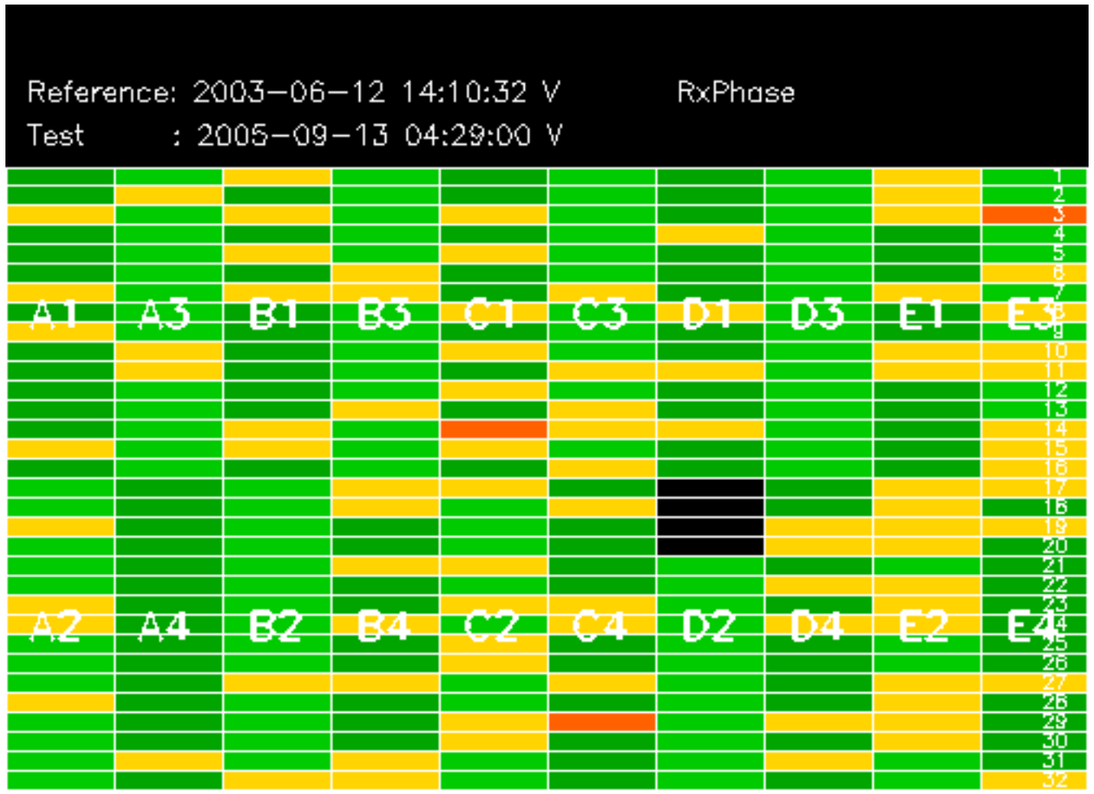
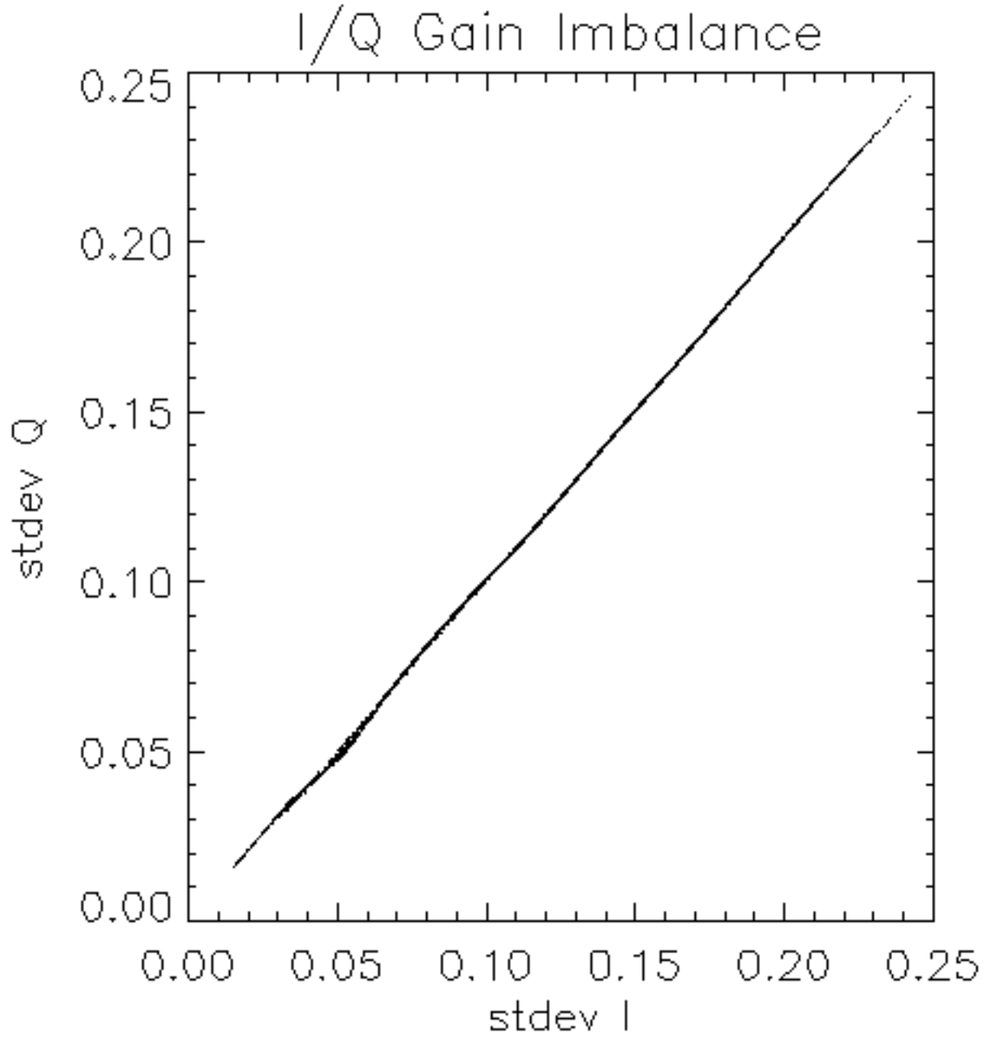
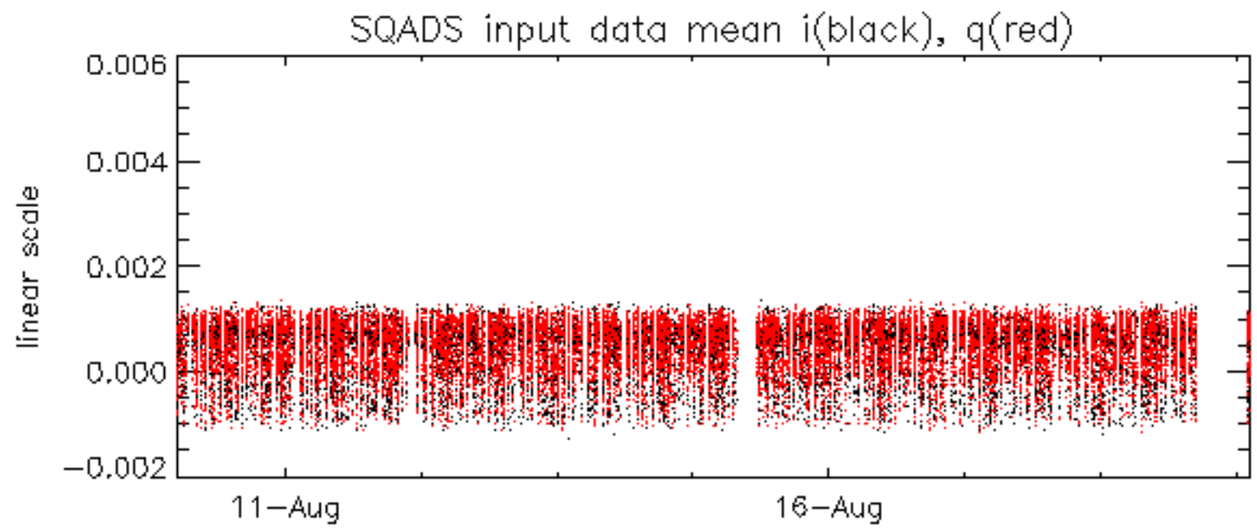
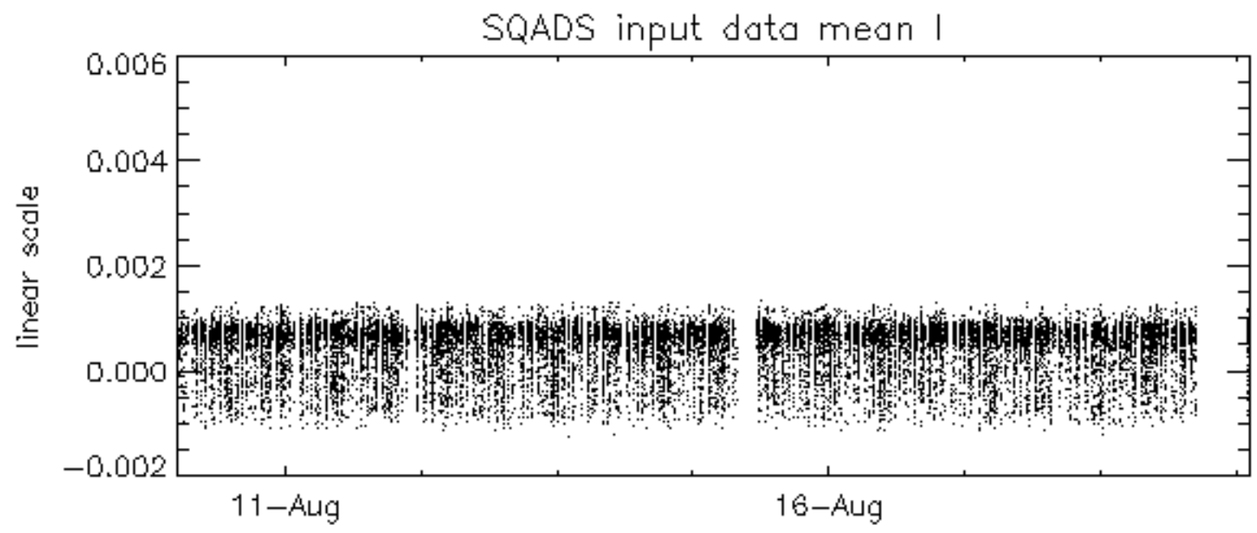
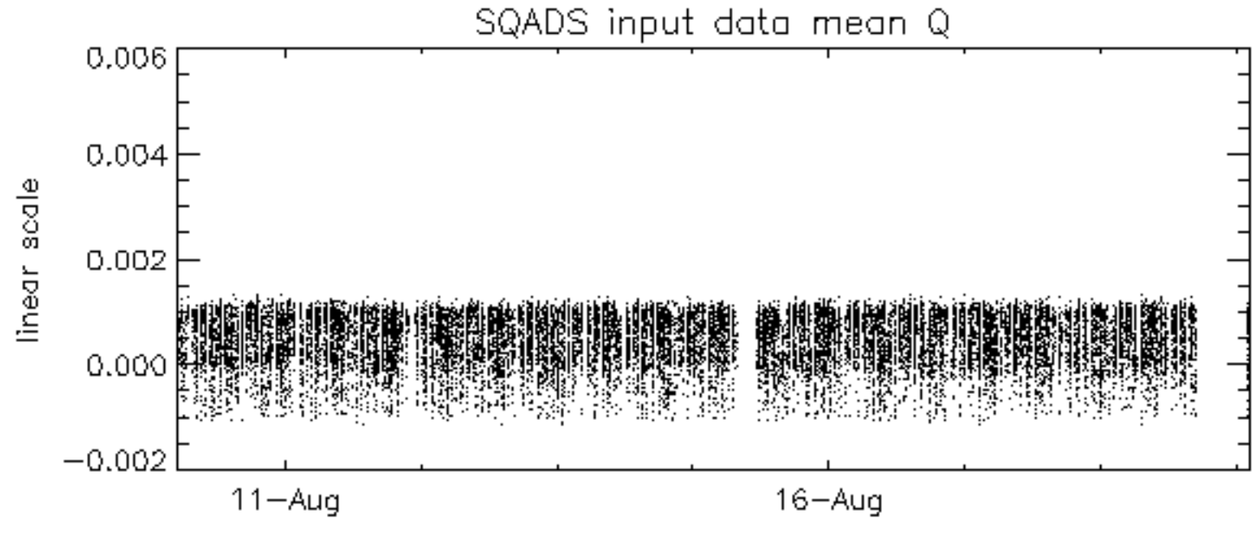

Reference: 2001-02-09 14:08:23 V
Test : 2005-09-13 04:29:00 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

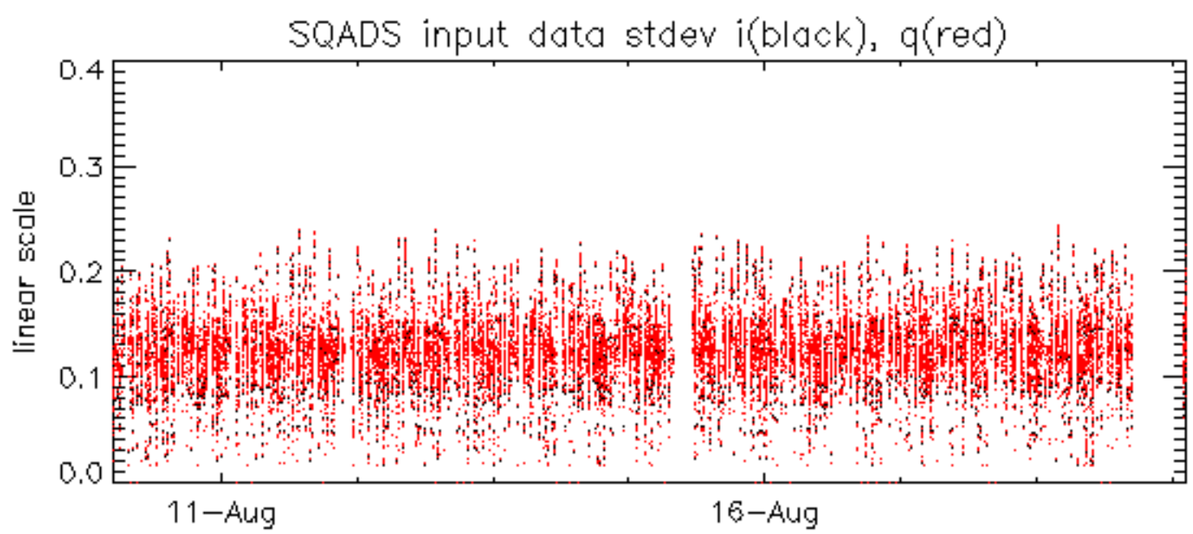

Reference: 2003-06-12 14:10:32 V
Test : 2005-09-13 04:29:00 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

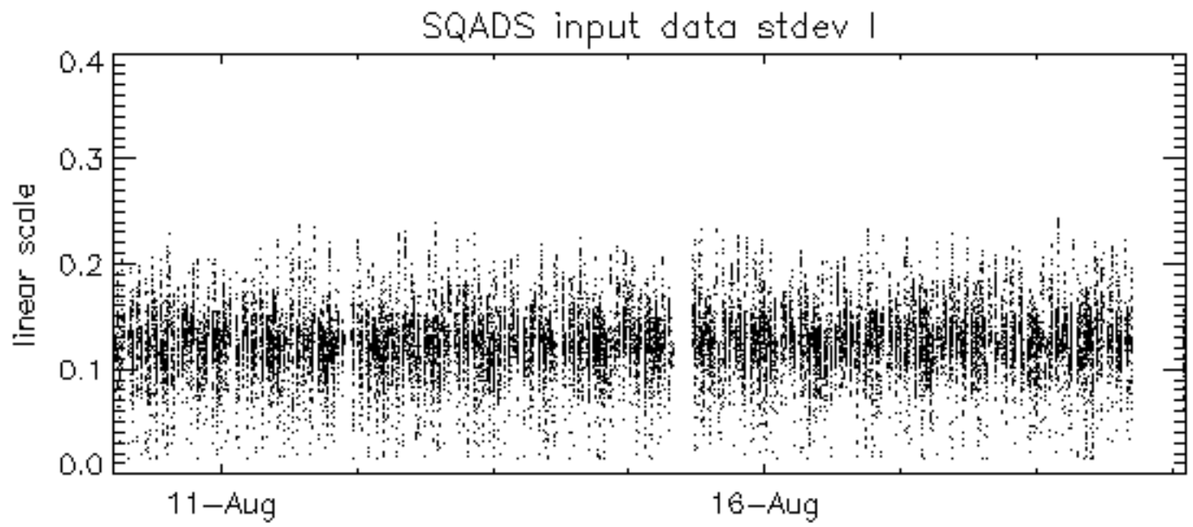

I/Q Gain Imbalance
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00
0.05
0.10
0.15
0.20
0.25
stdev I

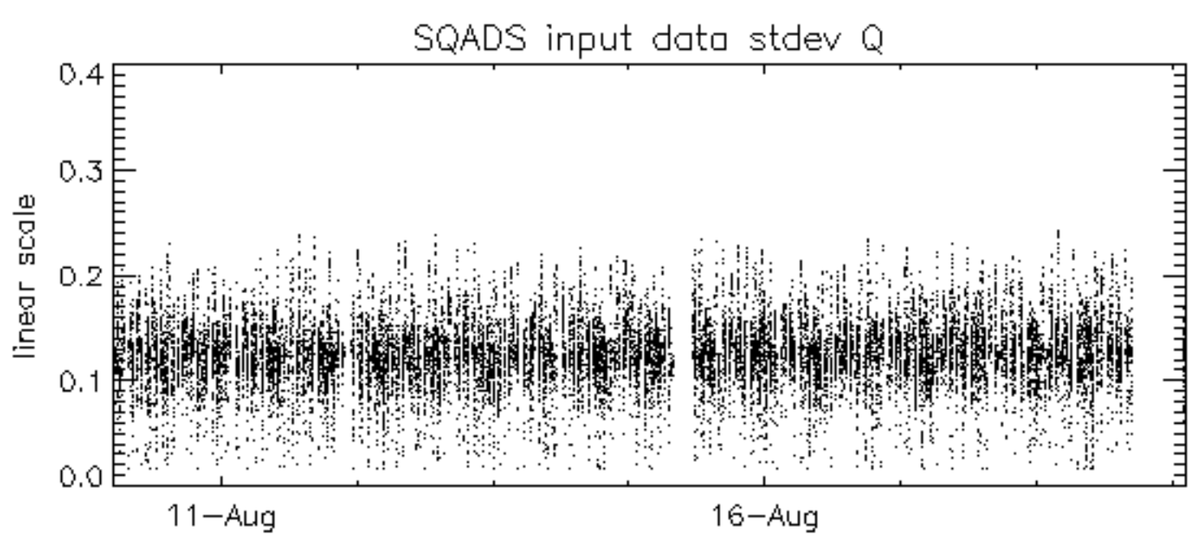

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Aug
16−Aug

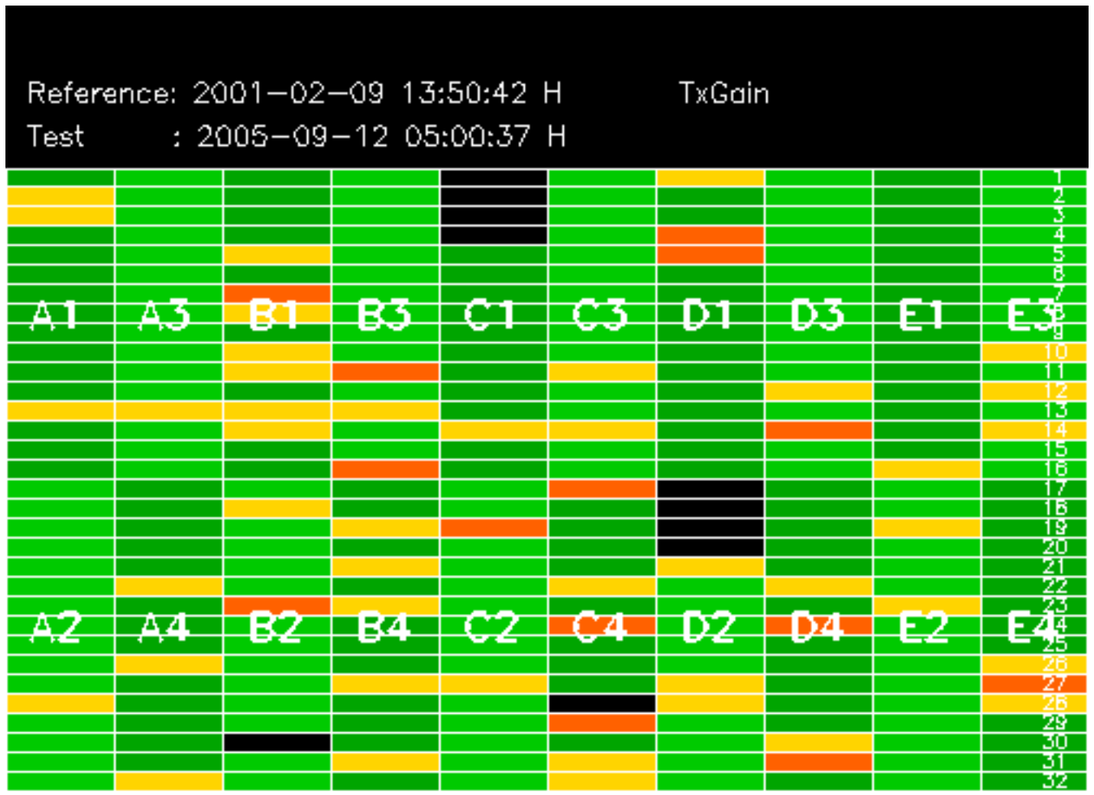

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Aug
16−Aug

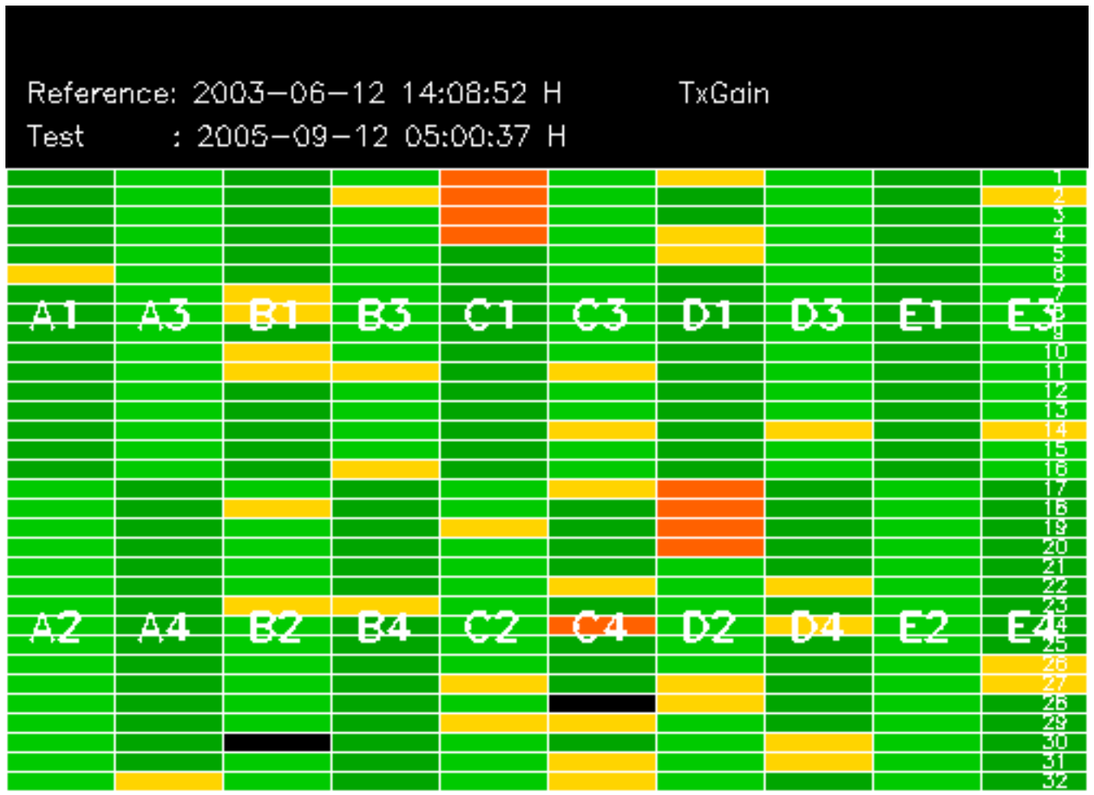

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Aug
16−Aug

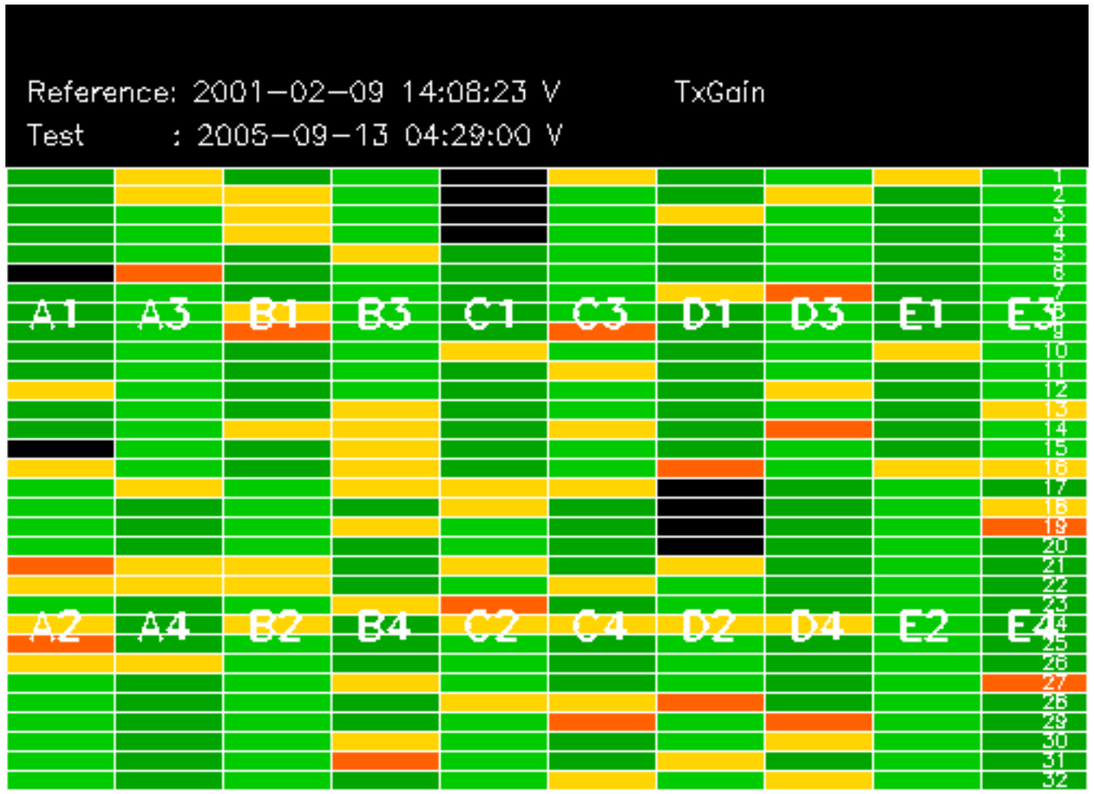

SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
11–Aug
16–Aug


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
11–Aug
16–Aug


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
11–Aug
16–Aug


Reference: 2001-02-09 13:50:42 H
Test : 2005-09-12 05:00:37 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2003-06-12 14:08:52 H
Test : 2005-09-12 05:00:37 H
TxGain
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
Test : 2005-09-13 04:29:00 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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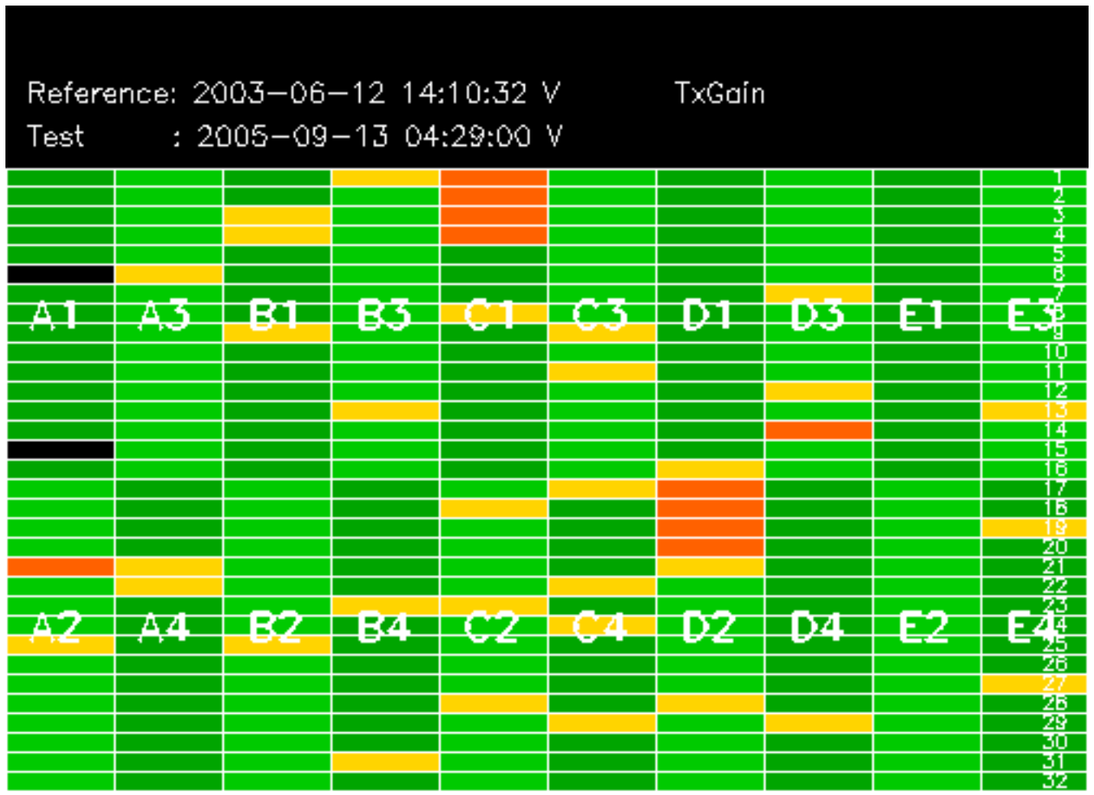
Reference: 2003-06-12 14:10:32 V
Test : 2005-09-13 04:29:00 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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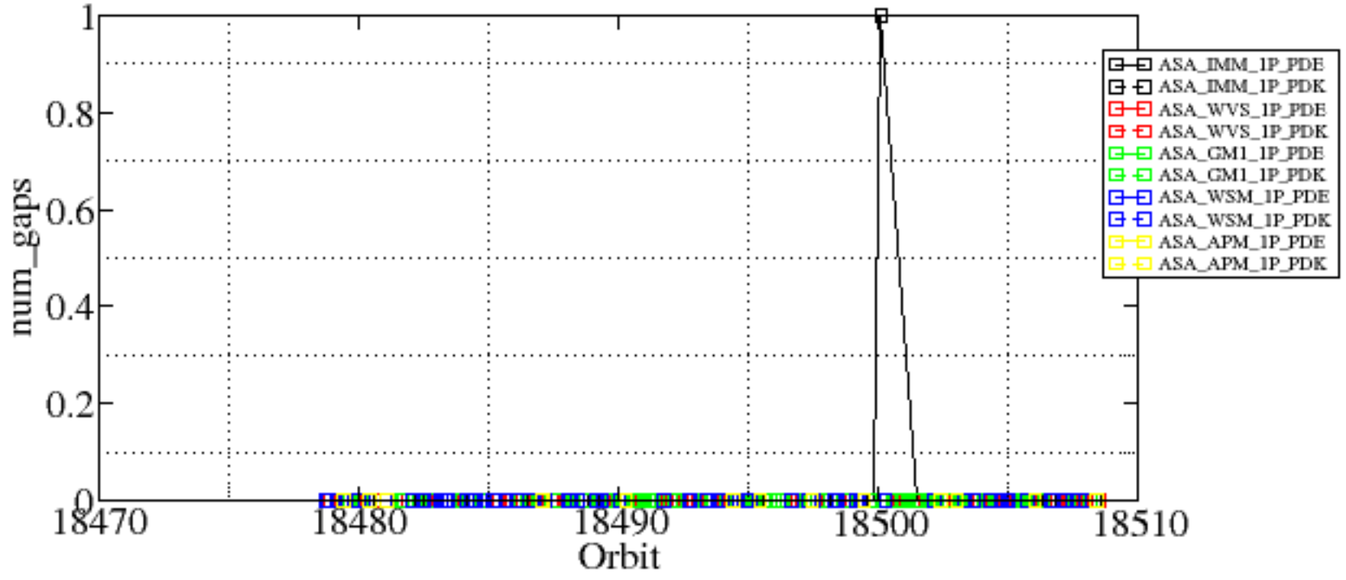
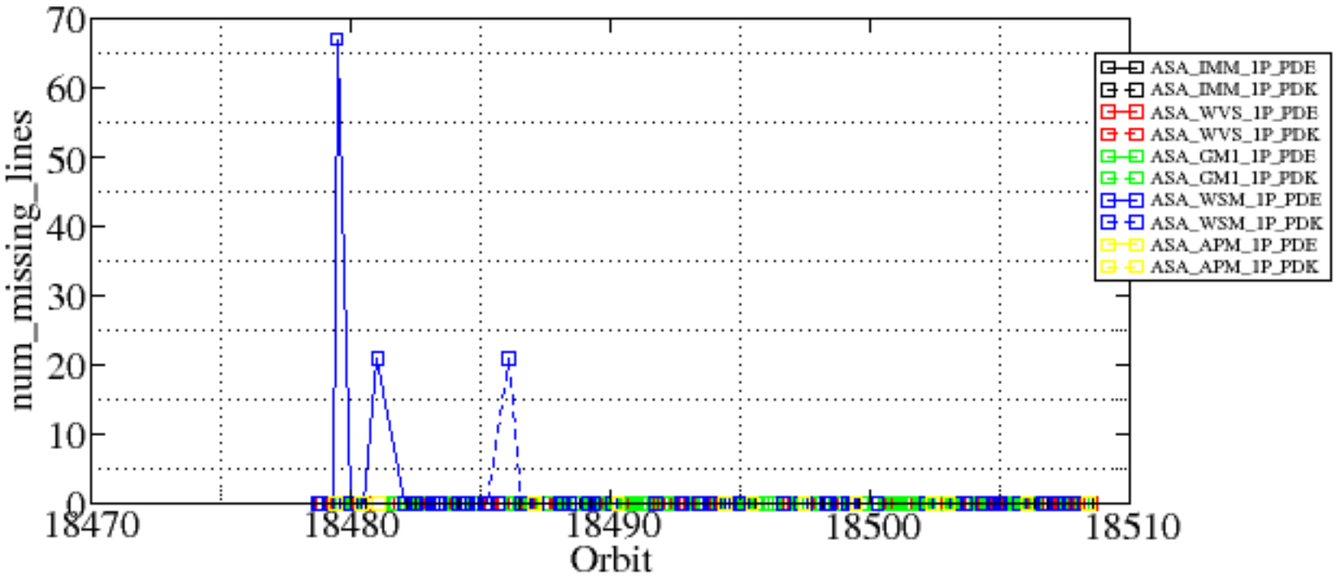
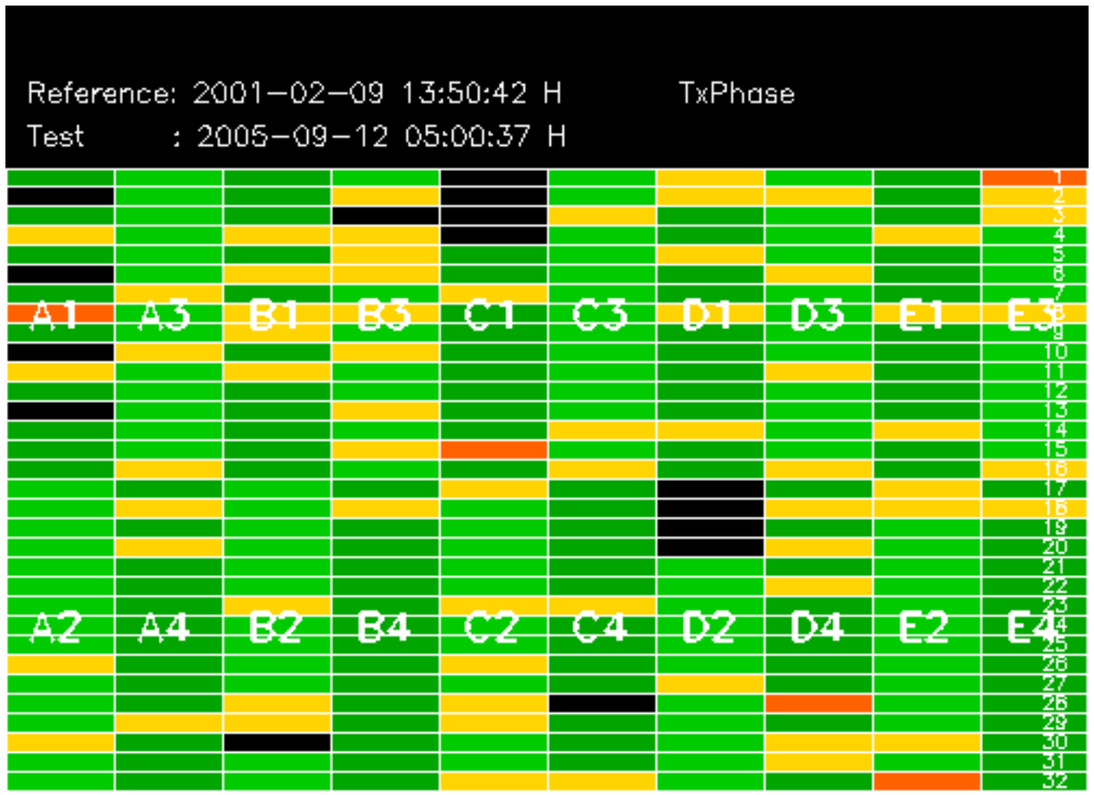
Summary of analysis for the last 3 days 2005091[234]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20050913_115625_000002262040_00410_18500_5479.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20050912_011917_000003912040_00389_18479_8359.N1 </td> <td>0 </td> <td>67 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20050912_035553_000001642040_00391_18481_8375.N1 </td> <td>0 </td> <td>21 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20050912_122252_000003972040_00396_18486_3937.N1 </td> <td>0 </td> <td>21 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20050912_122252_000003972040_00396_18486_3988.N1 </td> <td>0 </td> <td>21 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
18470
18480
18490
18500
18510
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
70
60
50
40
30
20
10
0
18470
18480
18490
18500
18510
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
TxPhase
Test : 2005-09-12 05:00:37 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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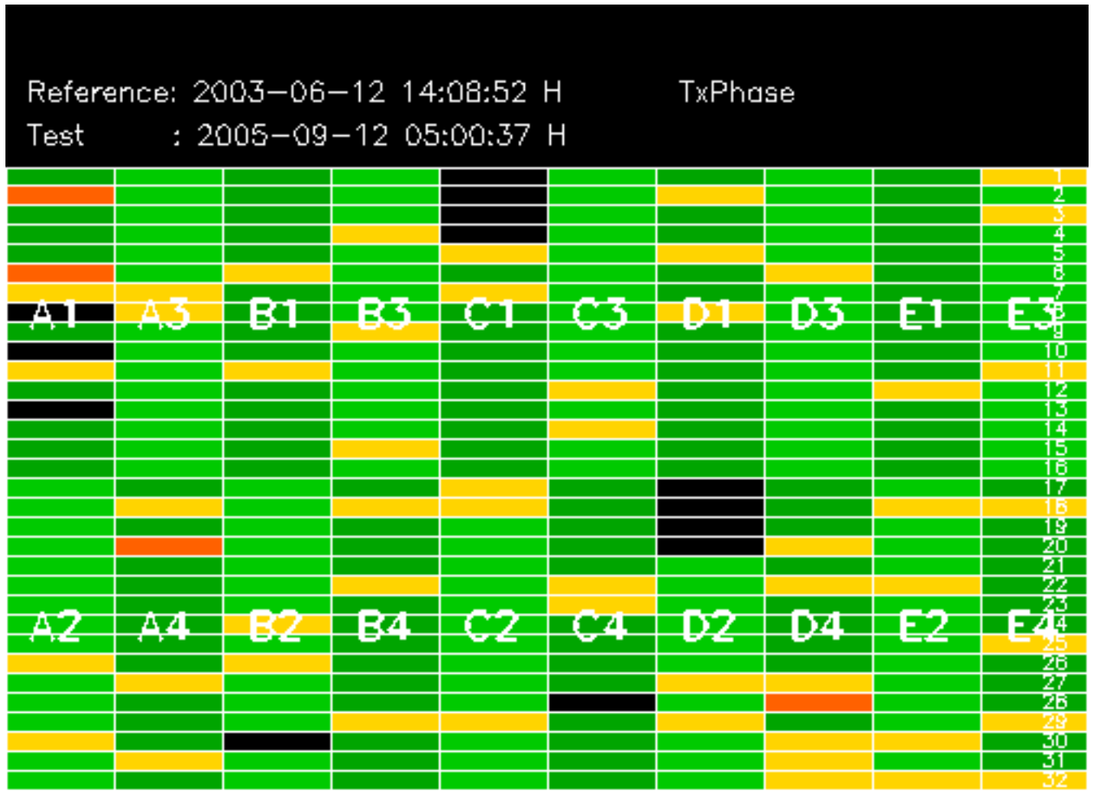
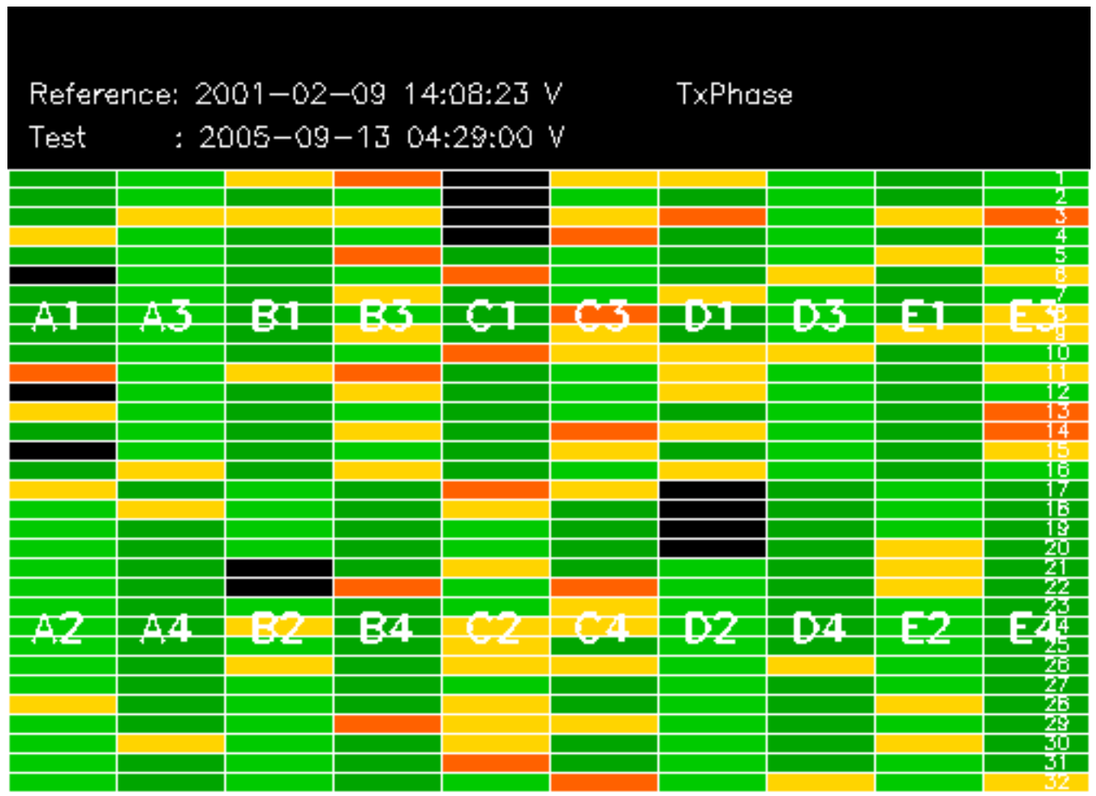
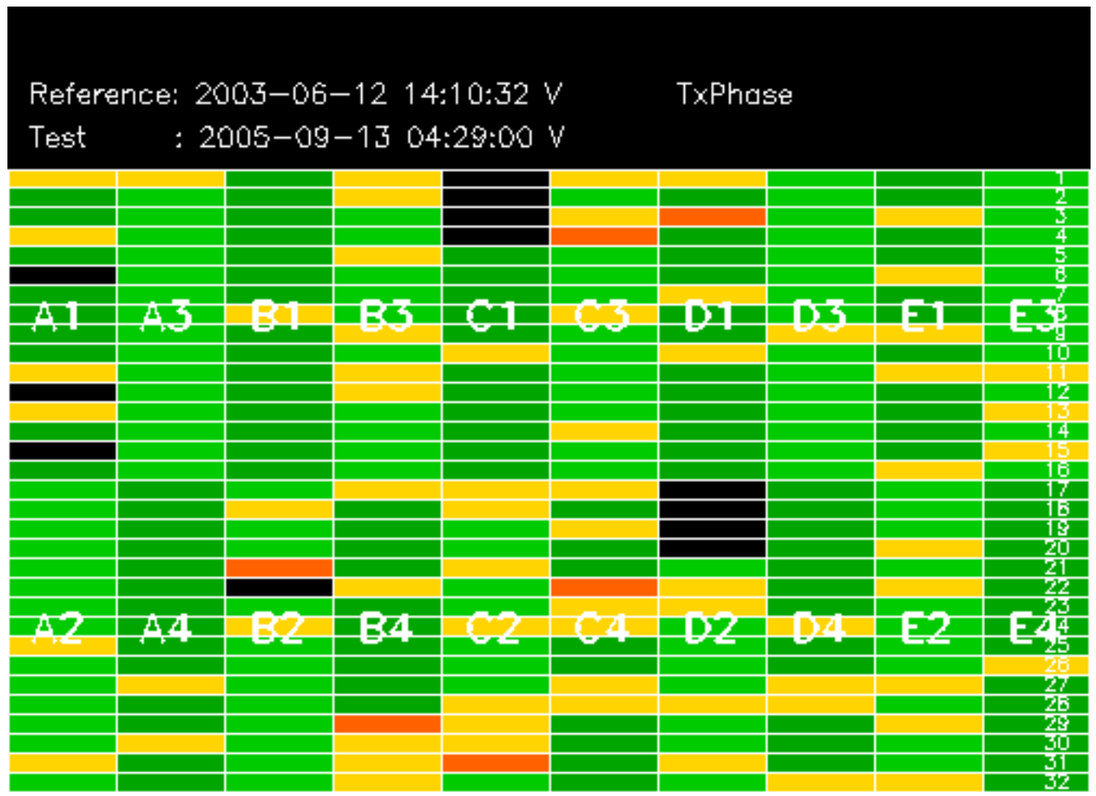

Reference: 2003-06-12 14:08:52 H
Test : 2005-09-12 05:00:37 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
TxPhase
Test : 2005-09-13 04:29:00 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2003-06-12 14:10:32 V
Test : 2005-09-13 04:29:00 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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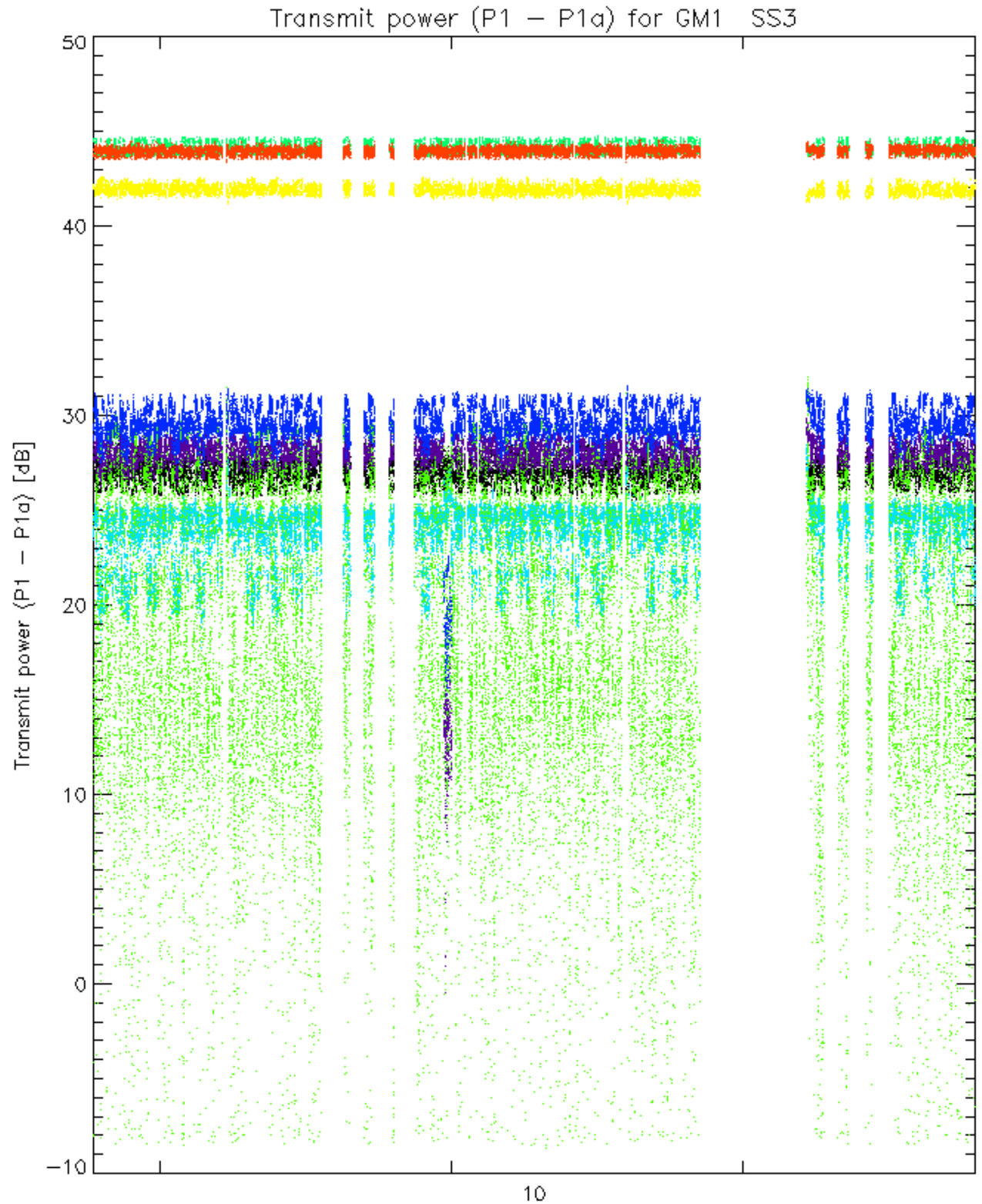
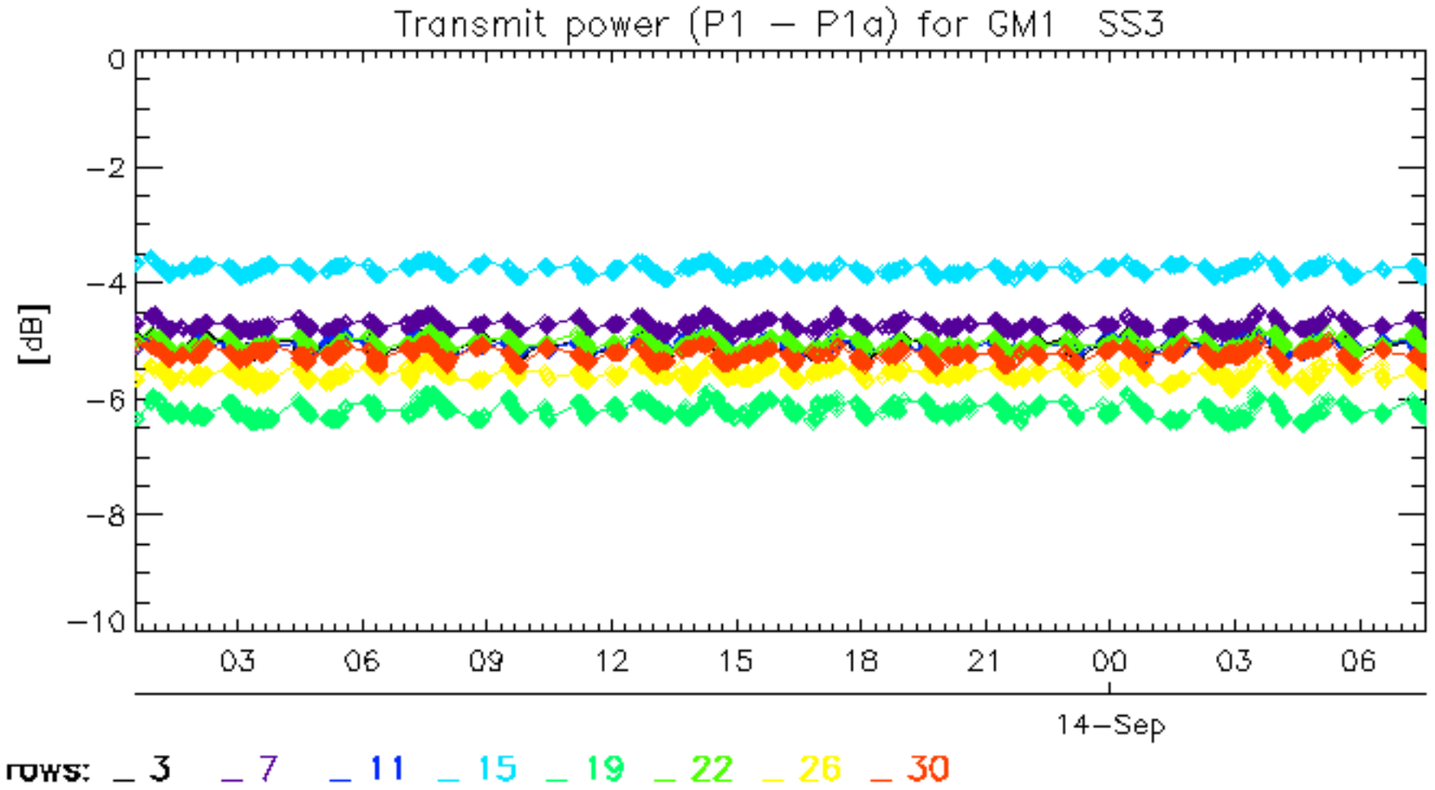
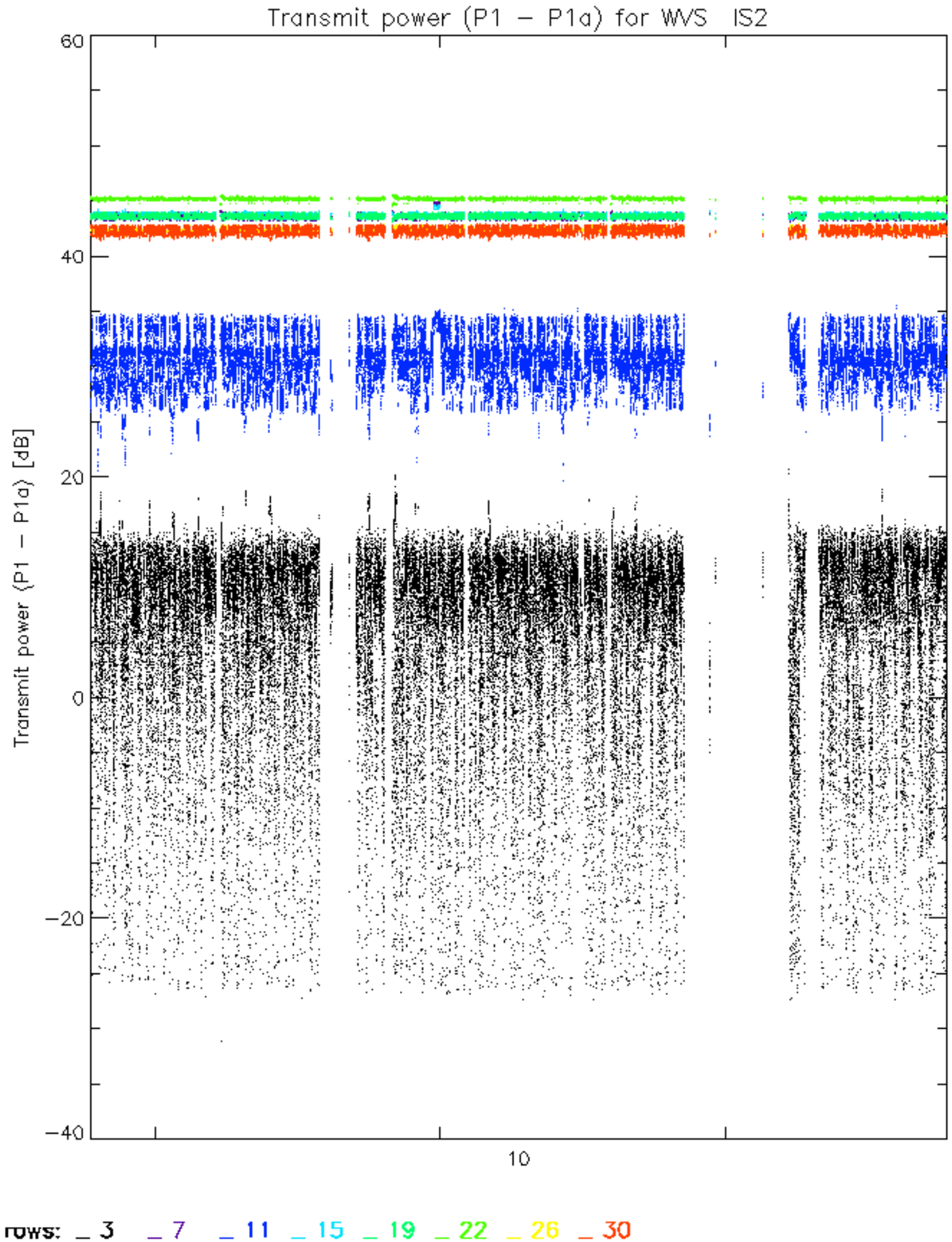
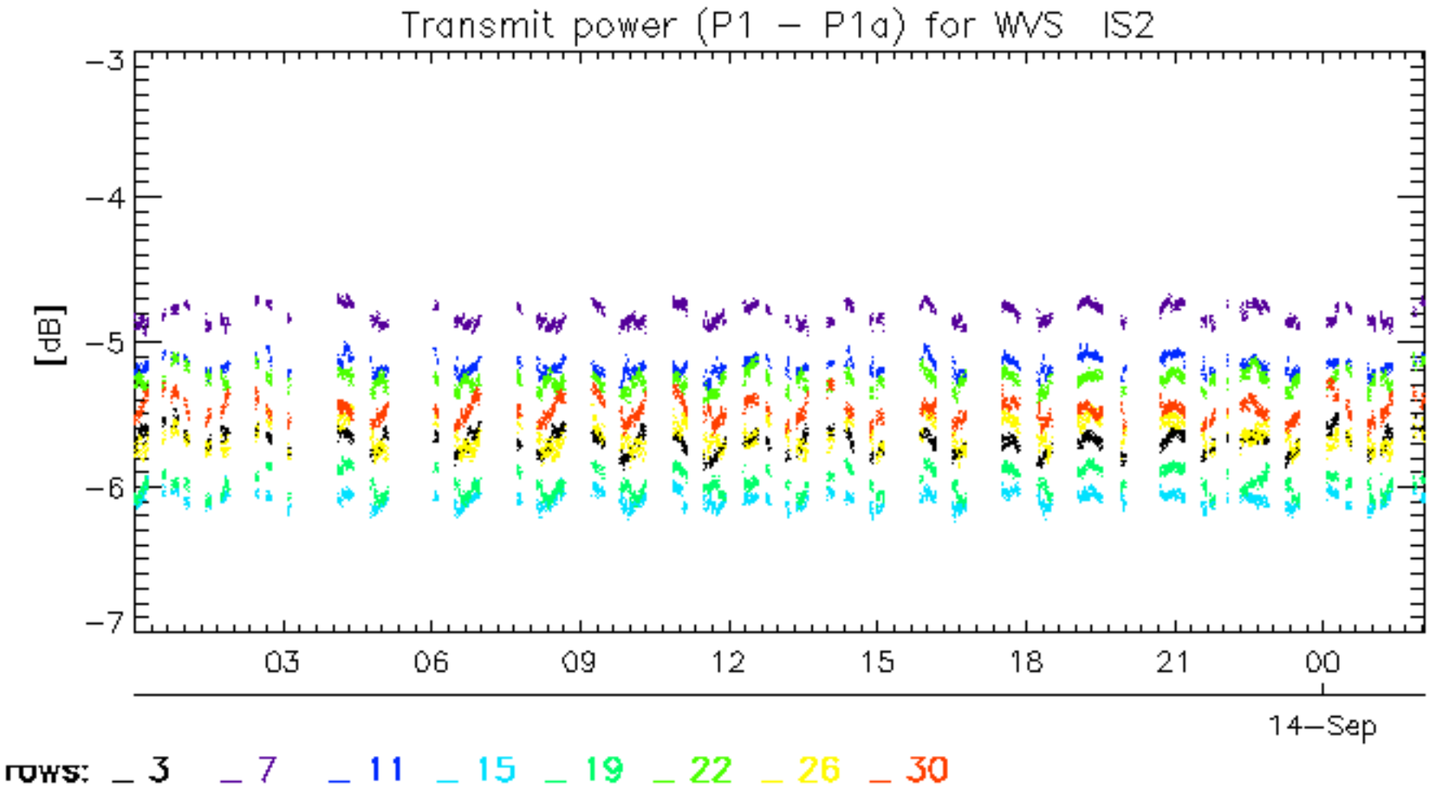

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
10
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
[dB]
0
−2
−4
−6
−8
−10
03
06
09
12
15
18
21
00
03
06
14−Sep
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 − P1a) for WVS IS2
60
40
20
0
−20
−40
Transmit power ⟨P1 − P1a⟩ [dB]
10
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
[dB]
−3
−4
−5
−6
−7
03
06
09
12
15
18
21
00
14–Sep
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.