PRELIMINARY REPORT OF 050924

last update on Sat Sep 24 10:50:01 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 2005-09-23 00:00:00 to 2005-09-24 10:50:01

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	28	8	3	2	0
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	28	8	3	2	0
ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_000000	28	8	3	2	0
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	28	8	3	2	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	37	49	23	10	57
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	37	49	23	10	57
ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_000000	37	49	23	10	57
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	37	49	23	10	57

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	20050923 055514
H	20050922 062651

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	-3.429533	0.087177	-0.485325
7	P1	-3.113672	0.033236	0.274281
11	P1	-4.576913	0.132957	0.666541
15	P1	-5.757023	0.068251	-0.486526
19	P1	-3.522043	0.238014	1.021235
22	P1	-4.577028	0.021914	0.178618
26	P1	-4.713988	0.091468	0.491367
30	P1	-6.715889	0.653500	2.032206
3	P1	-15.904746	1.860321	-0.901636
7	P1	-16.428238	5.459565	-2.425414
11	P1	-20.822729	10.805448	4.679125
15	P1	-12.841530	11.543560	-4.575734
19	P1	-14.158954	0.339512	1.318761
22	P1	-17.043242	25.419146	-4.301311
26	P1	-18.274405	21.893700	-2.414861
30	P1	-18.285070	8.635999	-0.429507

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.756521	0.099056	-0.206138
7	P2	-22.158123	0.318439	-1.173401
11	P2	-14.569857	2.977720	-4.346707
15	P2	-7.123092	0.124294	-0.292026
19	P2	-9.358424	0.236697	0.694438
22	P2	-17.038910	0.245294	-0.971617
26	P2	-16.385794	0.136966	0.444597
30	P2	-19.101839	0.271807	-1.080578

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.161328	0.004512	-0.028282
7	P3	-8.161328	0.004512	-0.028282
11	P3	-8.161328	0.004512	-0.028282
15	P3	-8.161328	0.004512	-0.028282
19	P3	-8.161328	0.004512	-0.028282
22	P3	-8.161328	0.004512	-0.028282
26	P3	-8.161325	0.004512	-0.028300
30	P3	-8.161325	0.004512	-0.028300

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	-2.929466	0.218624	-0.741863
7	P1	-2.991230	0.083280	-0.101580
11	P1	-3.734426	0.288070	1.256249
15	P1	-3.576146	0.036192	0.230253
19	P1	-3.475789	0.089520	0.533215
22	P1	-5.437442	0.252489	0.983084
26	P1	-6.683999	1.033718	2.415531
30	P1	-5.809271	0.591705	1.698458
3	P1	-11.308592	0.569008	-1.088894
7	P1	-11.774600	21.288504	-3.297226
11	P1	-13.851588	38.324215	-2.240849
15	P1	-13.226664	35.440804	-3.812370
19	P1	-15.320614	0.223157	0.349748
22	P1	-23.933556	6.130473	5.584808
26	P1	-16.413099	6.867671	-4.200578
30	P1	-20.039049	2.062617	0.411952

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.487001	0.064354	-0.341736
7	P2	-22.338955	0.341317	-1.426196
11	P2	-10.201365	1.244209	-2.943826
15	P2	-5.021262	0.049826	0.198961
19	P2	-6.752930	0.125860	0.194156
22	P2	-7.297603	0.244192	-1.172974
26	P2	-23.924812	0.040175	0.091895
30	P2	-22.017128	0.076152	-0.305019

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.005774	0.003561	-0.017182
7	P3	-8.005751	0.003564	-0.016707
11	P3	-8.005701	0.003561	-0.016395
15	P3	-8.005681	0.003568	-0.016888
19	P3	-8.005863	0.003554	-0.017214
22	P3	-8.005667	0.003554	-0.016727
26	P3	-8.005746	0.003558	-0.017015
30	P3	-8.005638	0.003579	-0.017338

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	0.000484791
	stdev	2.05993e-07
MEAN Q	mean	0.000505249
	stdev	2.24011e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.130838
	stdev	0.00100041
STDEV Q	mean	0.131110
	stdev	0.00101217

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005092[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_GM1_1PNPDK20050922_104238_000006162041_00037_18628_6169.N1	0	58
ASA_GM1_1PNPDK20050922_113749_000005012041_00037_18628_6240.N1	0	29
ASA_WSM_1PNPDE20050922_170449_000002442041_00041_18632_9995.N1	0	22
ASA_WSM_1PNPDE20050922_184757_000003042041_00042_18633_0010.N1	0	13
ASA_WSM_1PNPDE20050922_191352_000000672041_00042_18633_0013.N1	0	601
ASA_WSM_1PNPDE20050923_163431_000001522041_00055_18646_0167.N1	0	2
ASA_WSM_1PNPDE20050923_181716_000000672041_00056_18647_0174.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

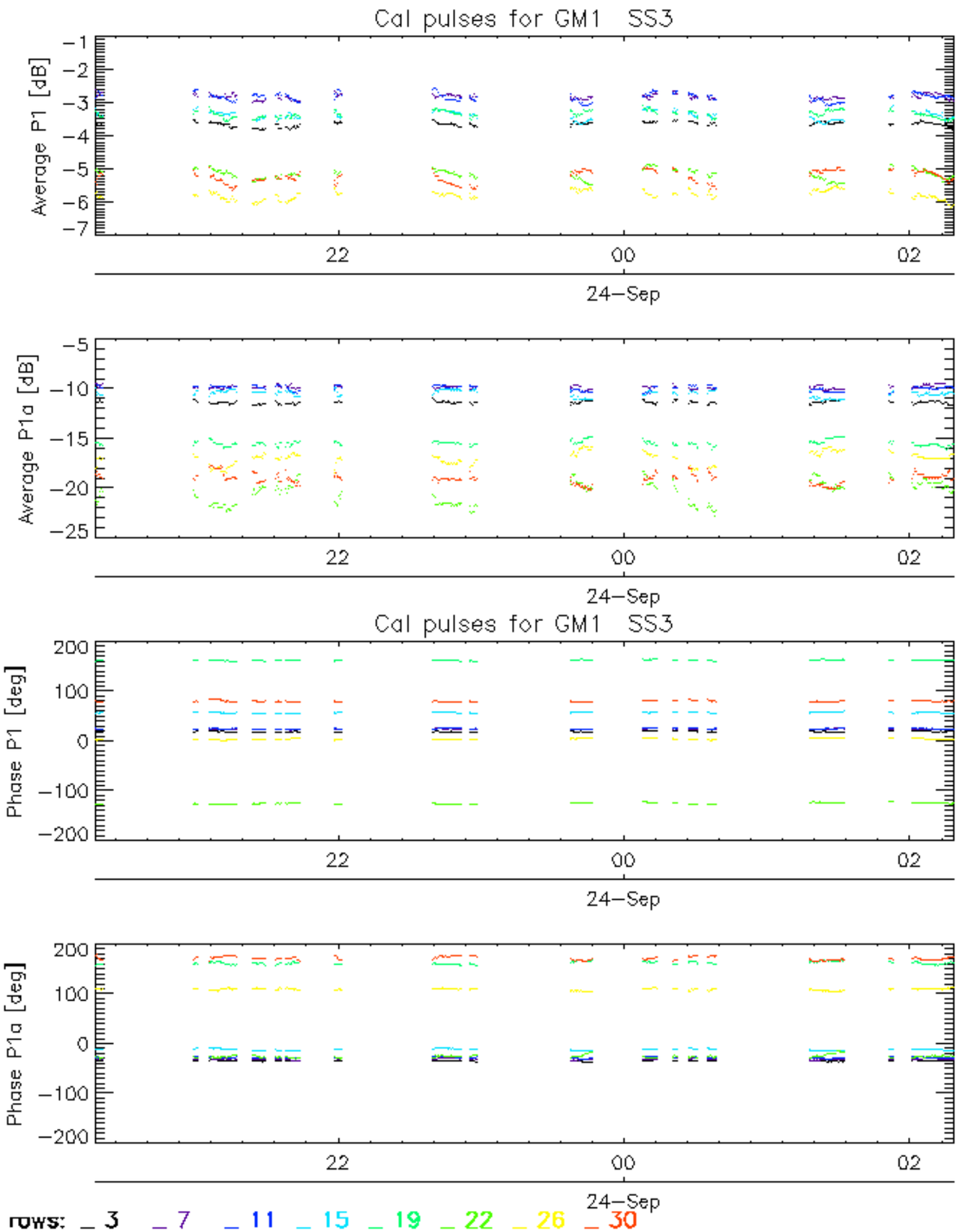
Evolution of Absolute Doppler

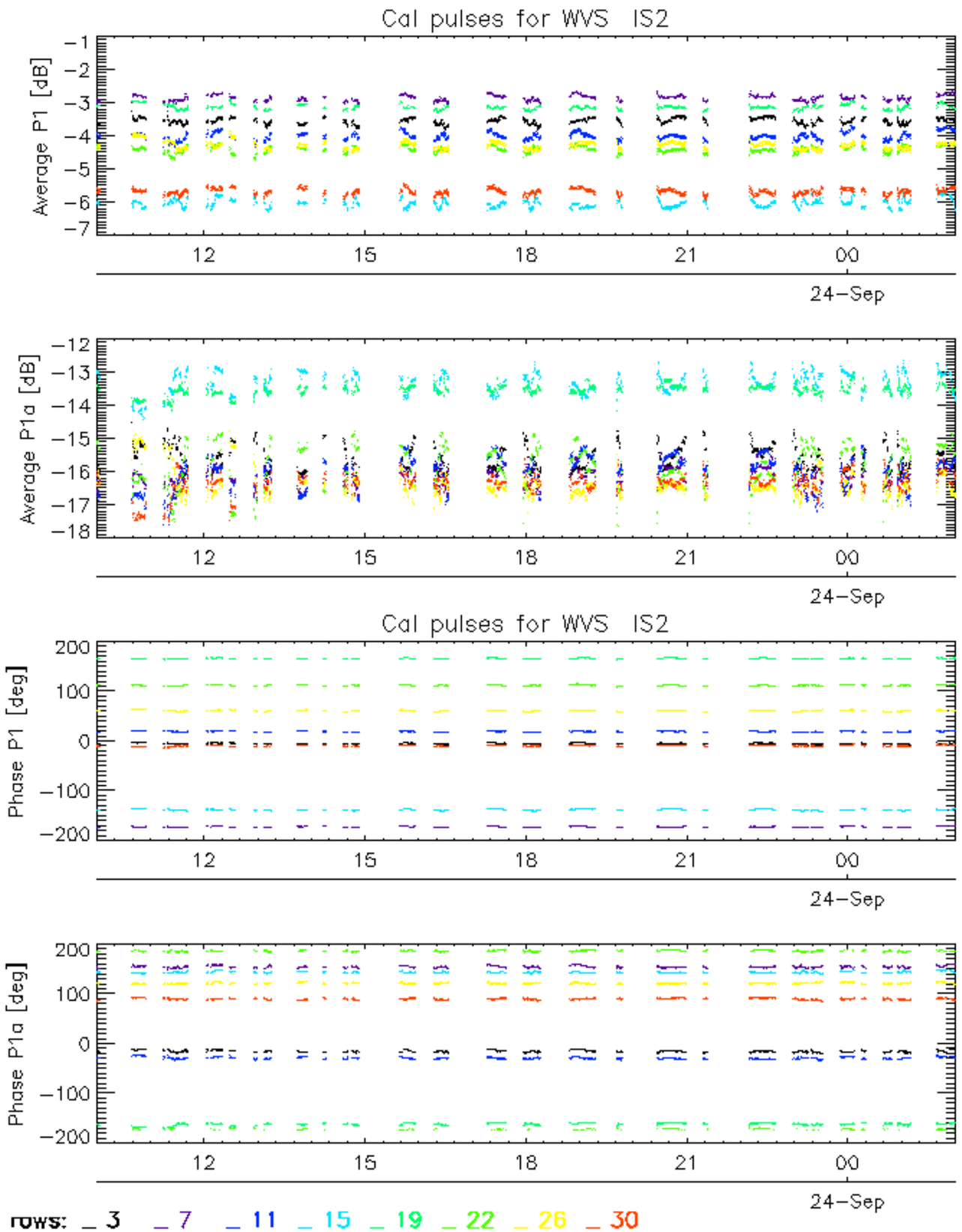
Acsending

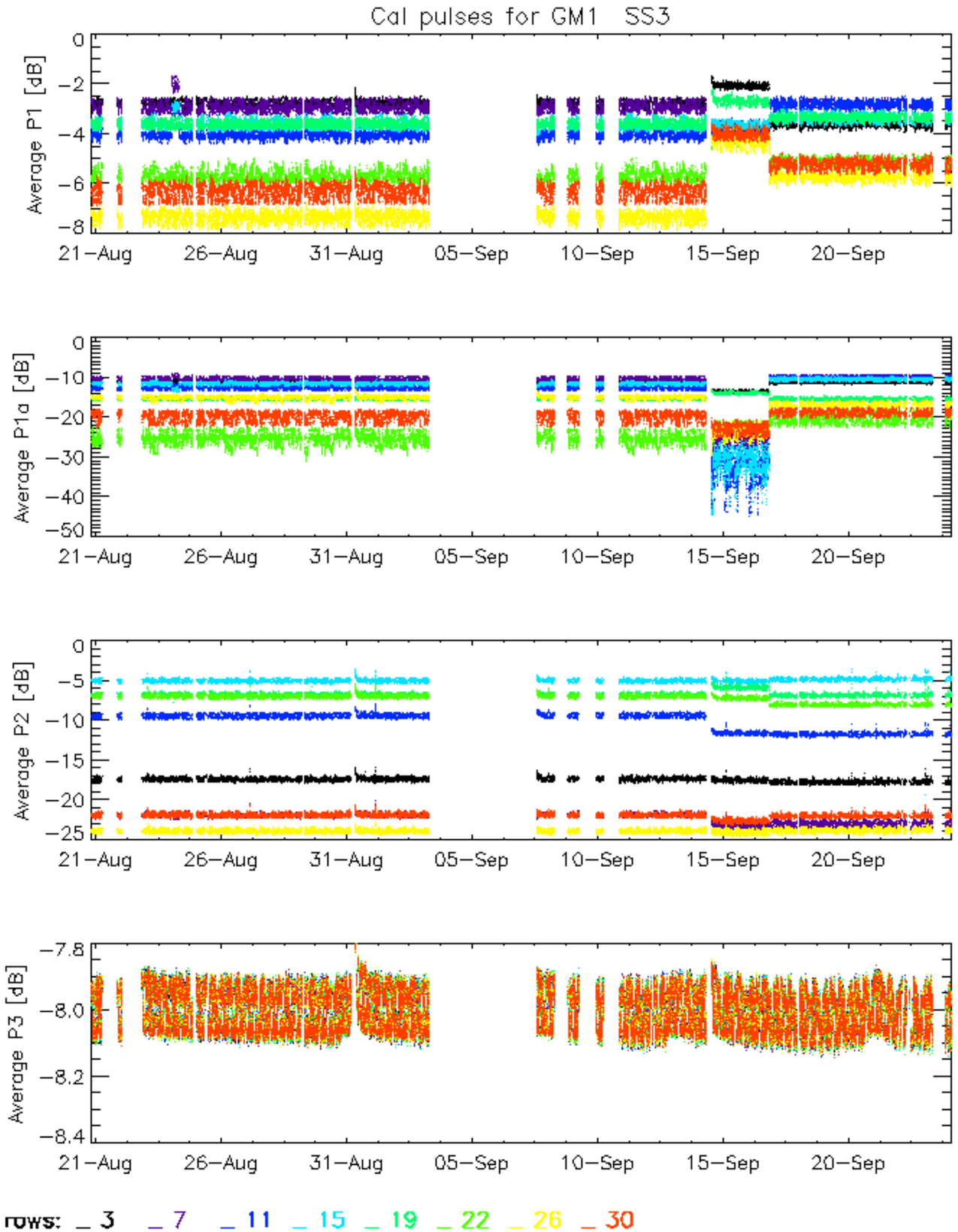
Descending

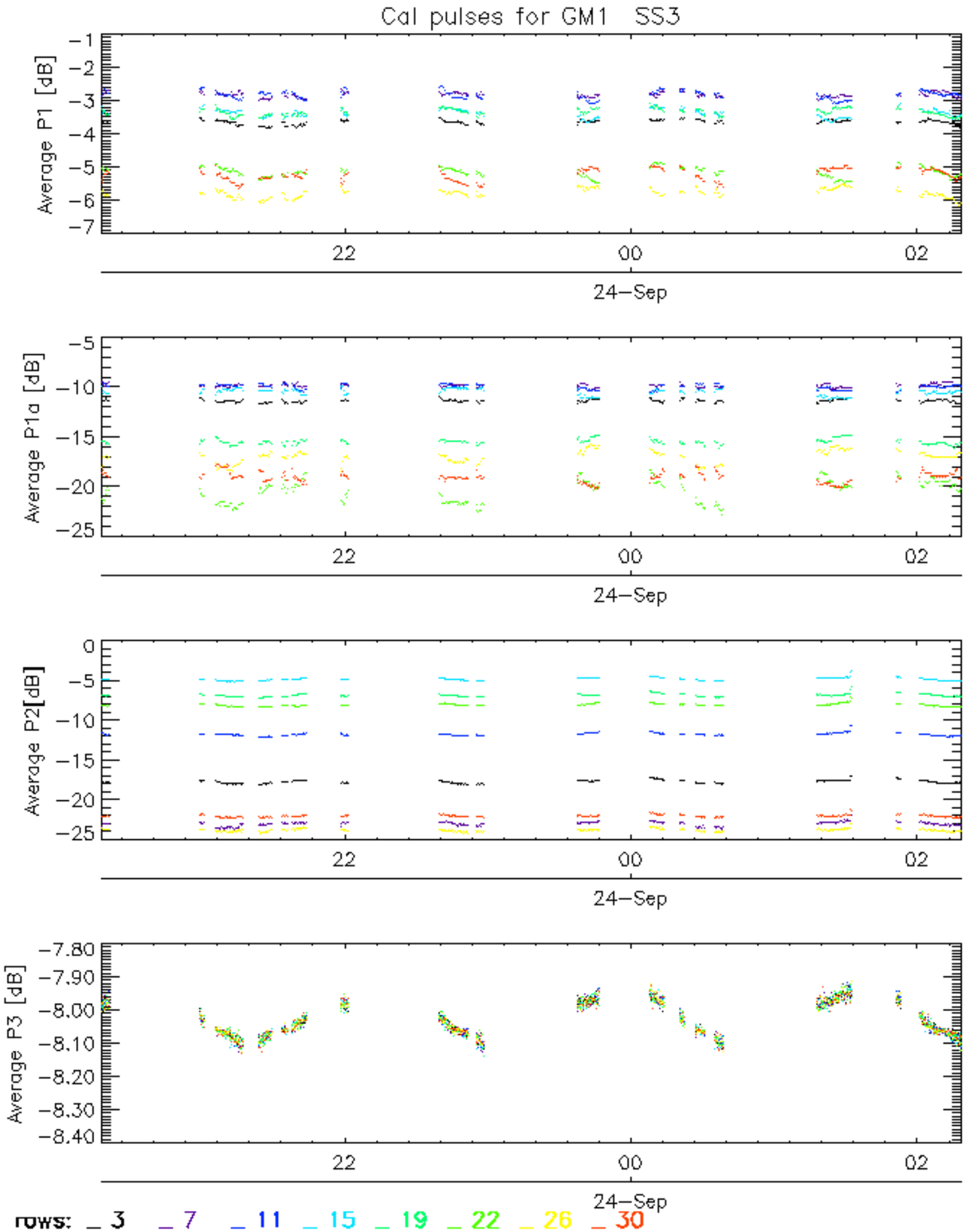
7.6 - Doppler evolution versus ANX for GM1

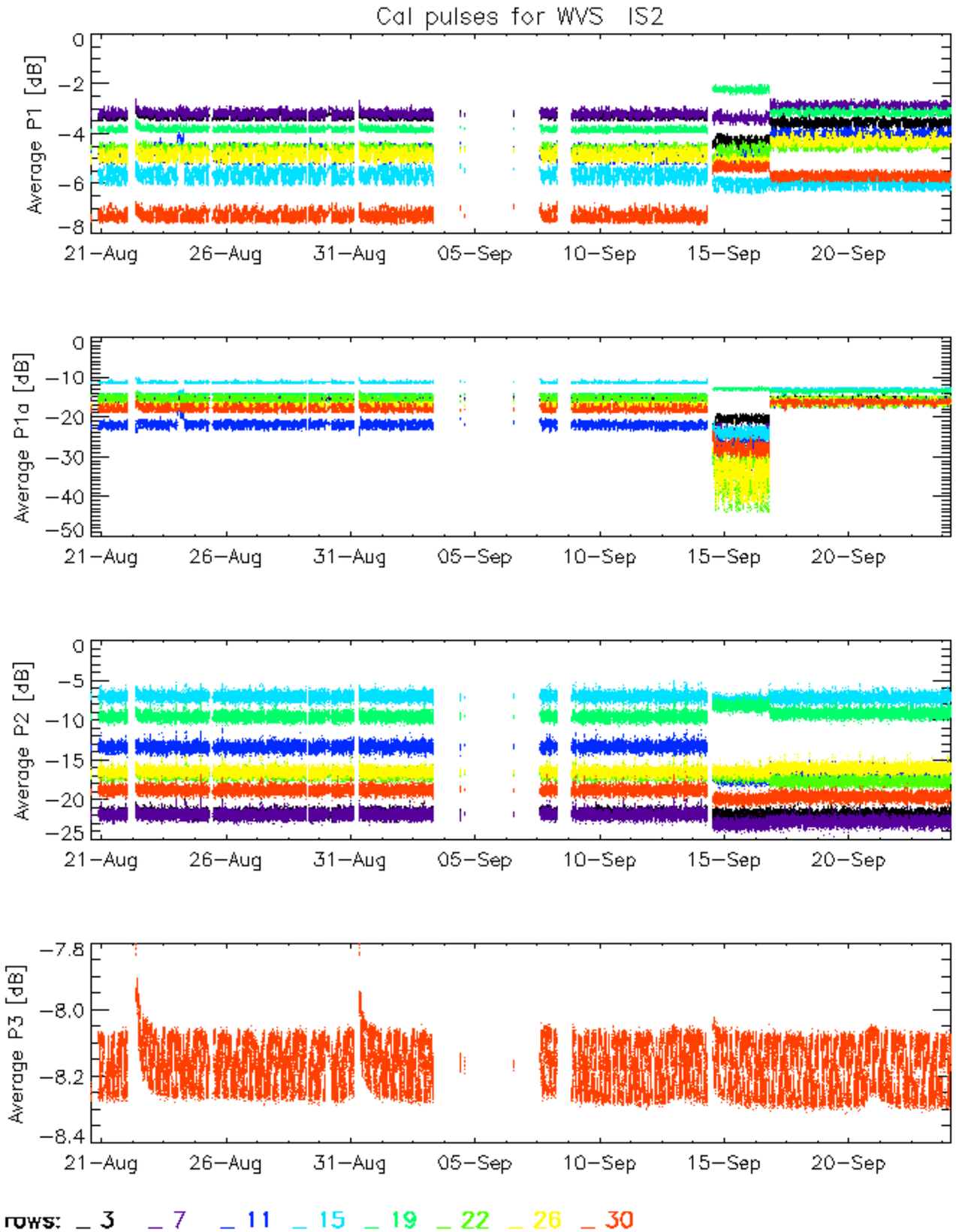
Evolution Doppler error versus ANX

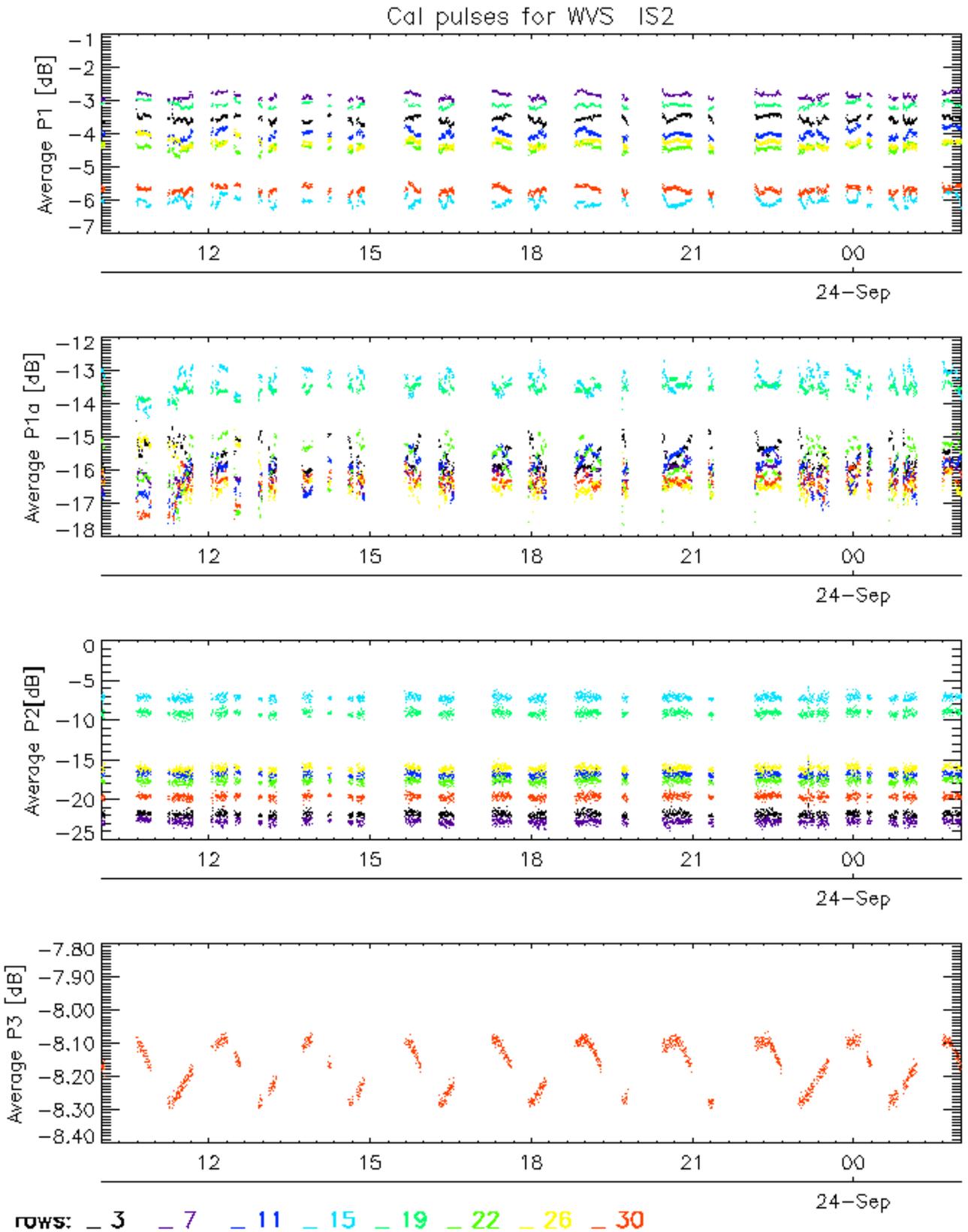


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
22
00
02
24−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
22
00
02
24−Sep
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
22
00
02
24−Sep
Phase P1a [deg]
200
100
0
−100
−200
22
00
02
24−Sep
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
12
15
18
21
00
24−Sep
Average P1a [dB]
−12
−13
−14
−15
−16
−17
−18
12
15
18
21
00
24−Sep
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
12
15
18
21
00
24−Sep
Phase P1a [deg]
200
100
0
−100
−200
12
15
18
21
00
24−Sep
rows: 3 7 11 15 19 22 26 30

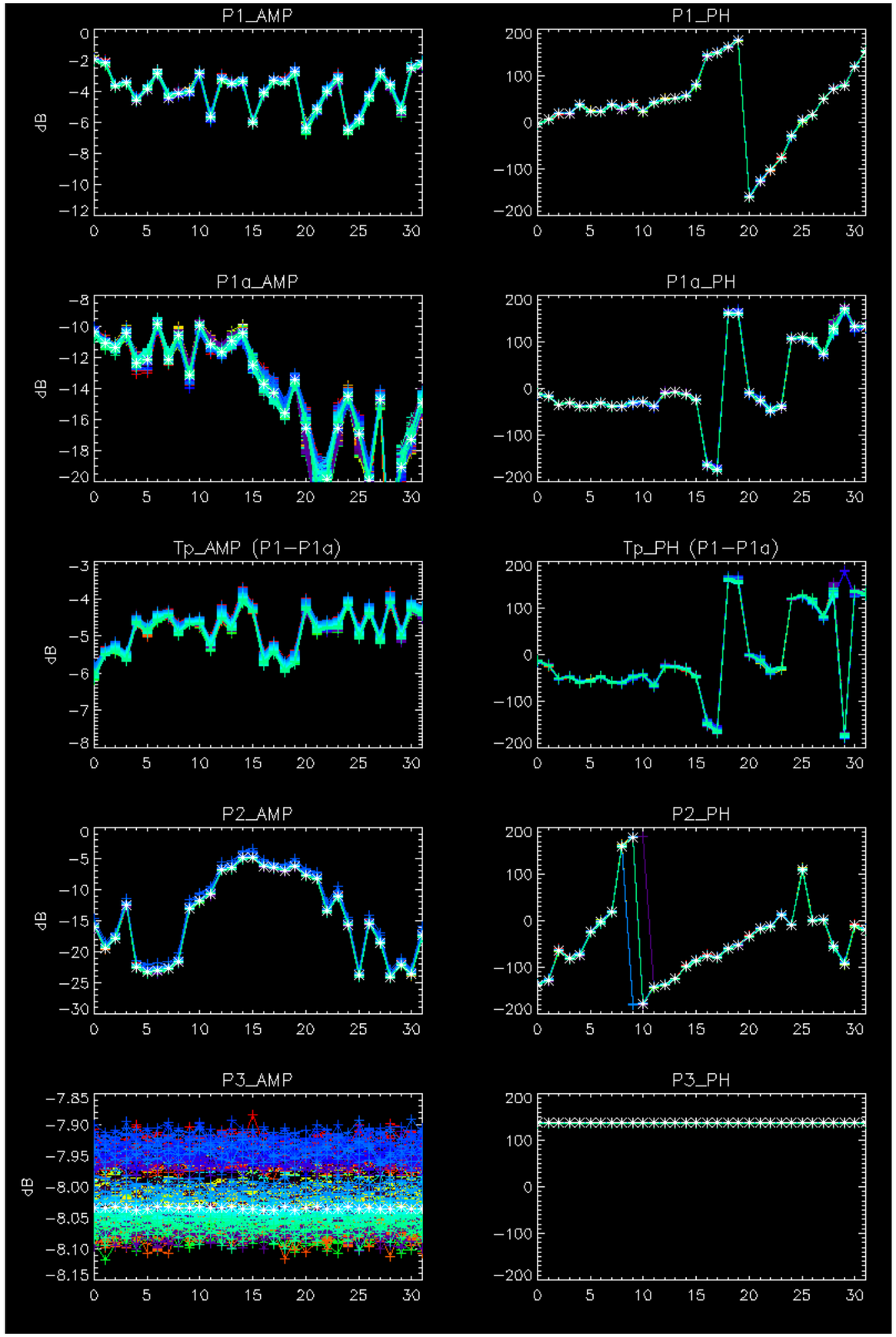

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
0
−10
−20
−30
−40
−50
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep
rows: 3 7 11 15 19 22 26 30

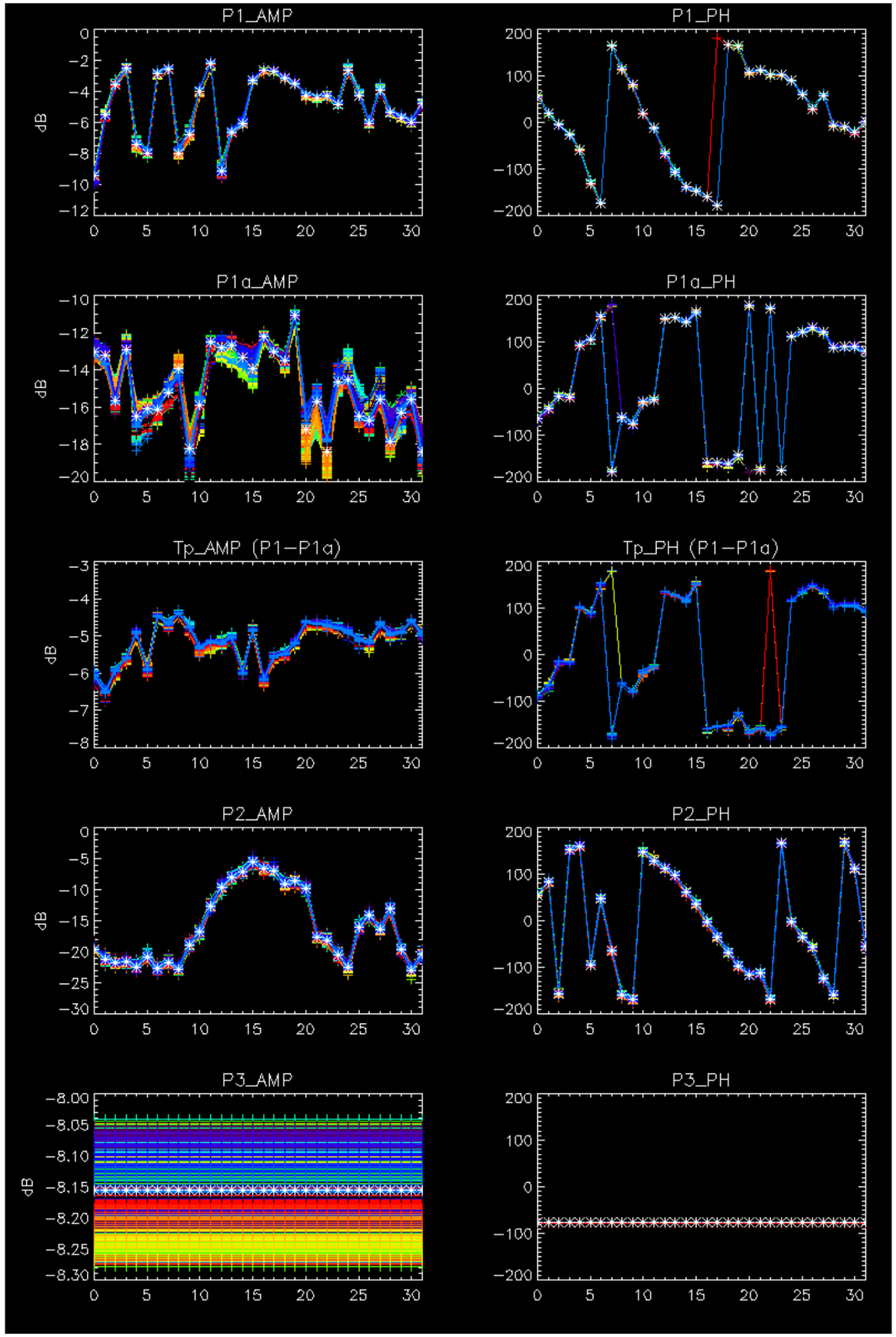

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
22
00
02
24−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
22
00
02
24−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
22
00
02
24−Sep
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
22
00
02
24−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep
Average P1a [dB]
0
−10
−20
−30
−40
−50
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
12
15
18
21
00
24−Sep
Average P1a [dB]
−12
−13
−14
−15
−16
−17
−18
12
15
18
21
00
24−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
12
15
18
21
00
24−Sep
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
12
15
18
21
00
24−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

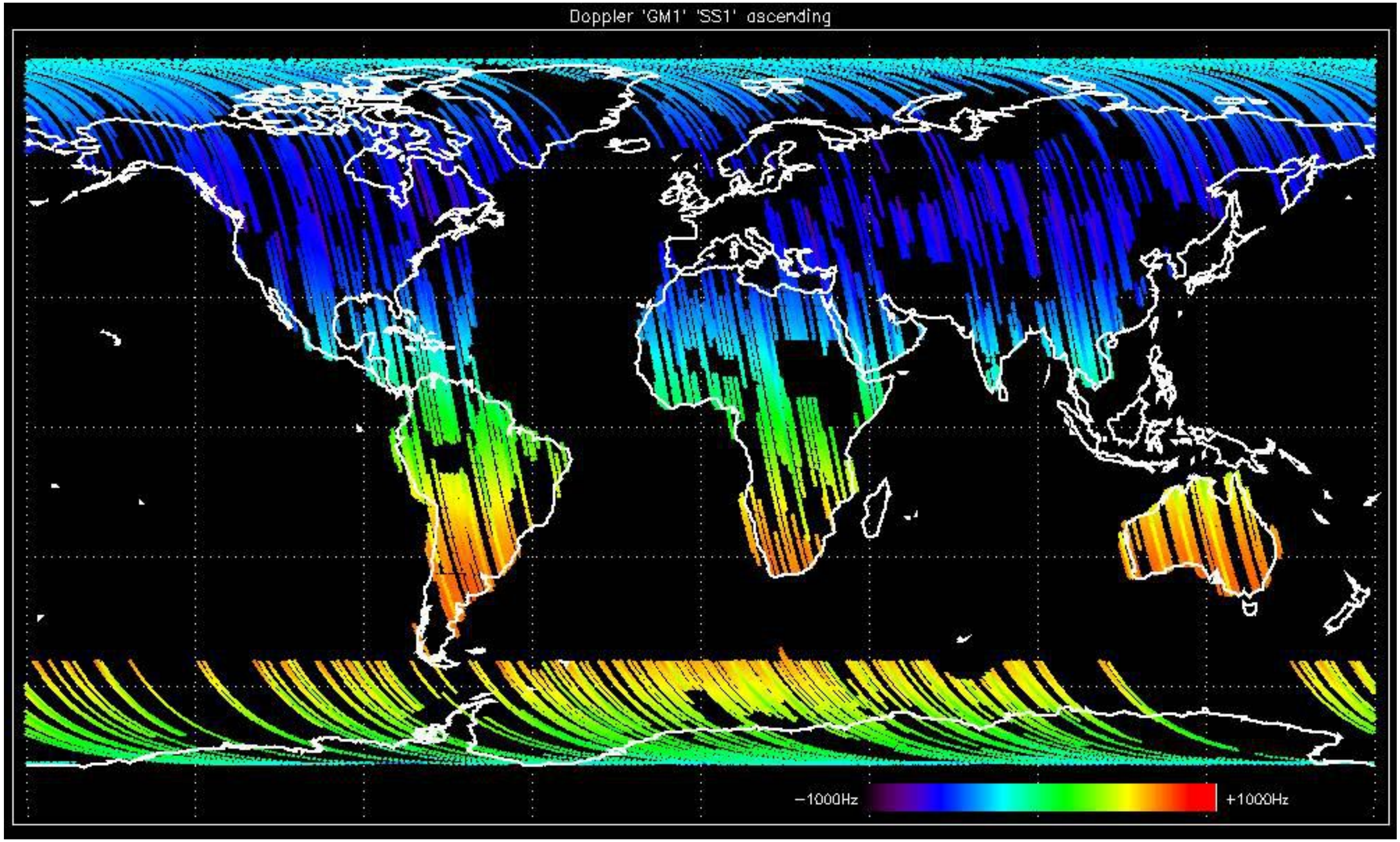
No anomalies observed.

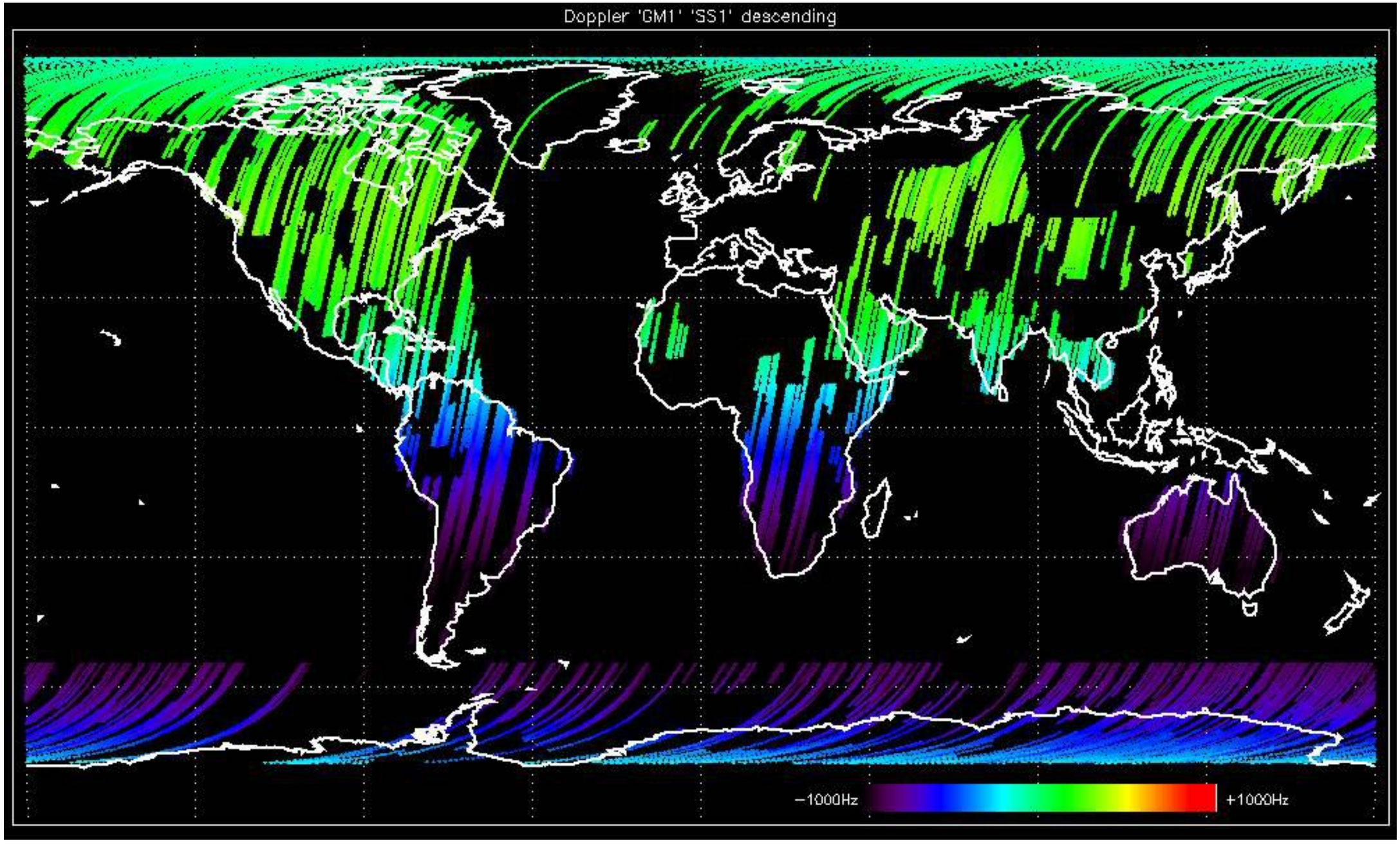

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

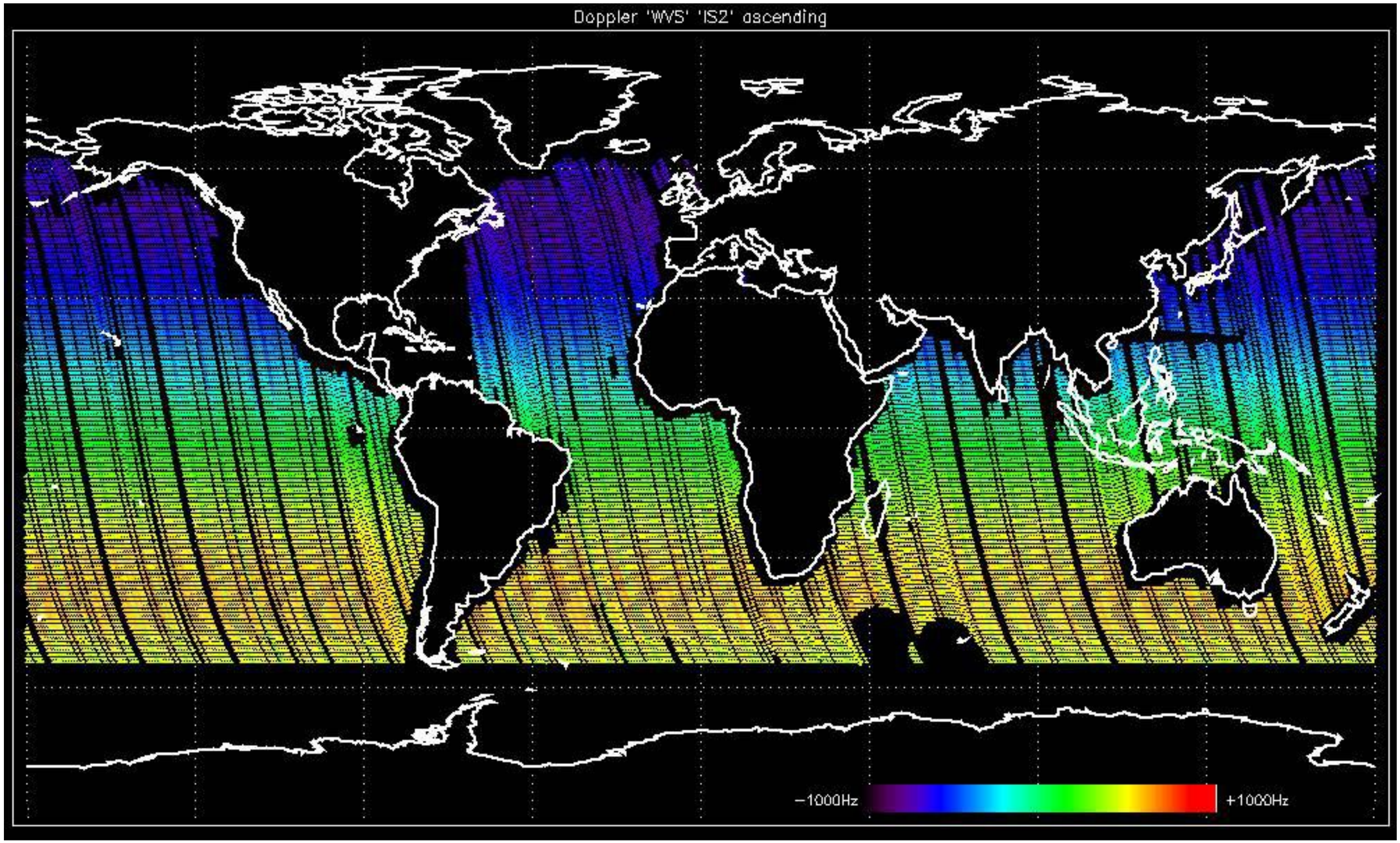

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

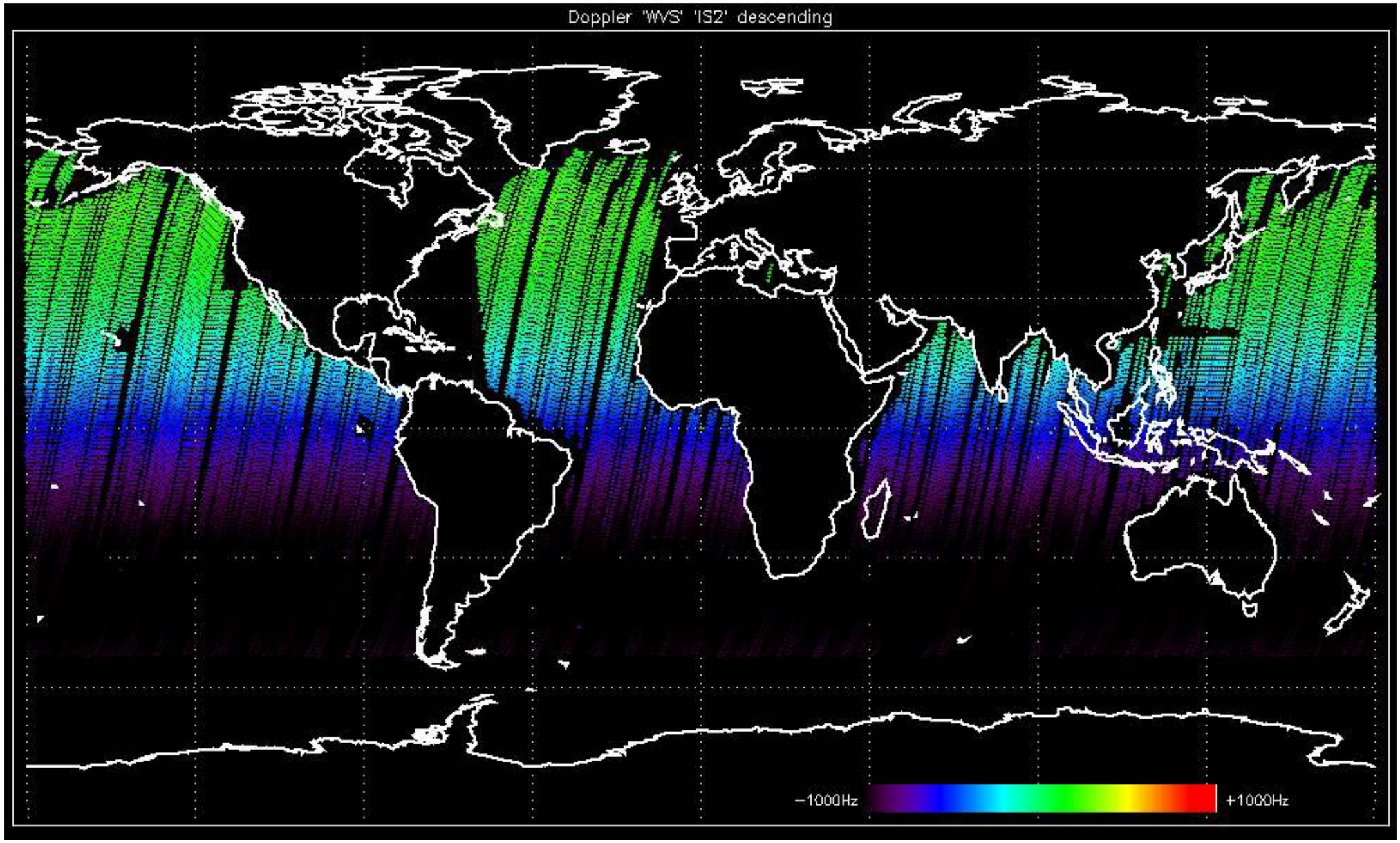
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

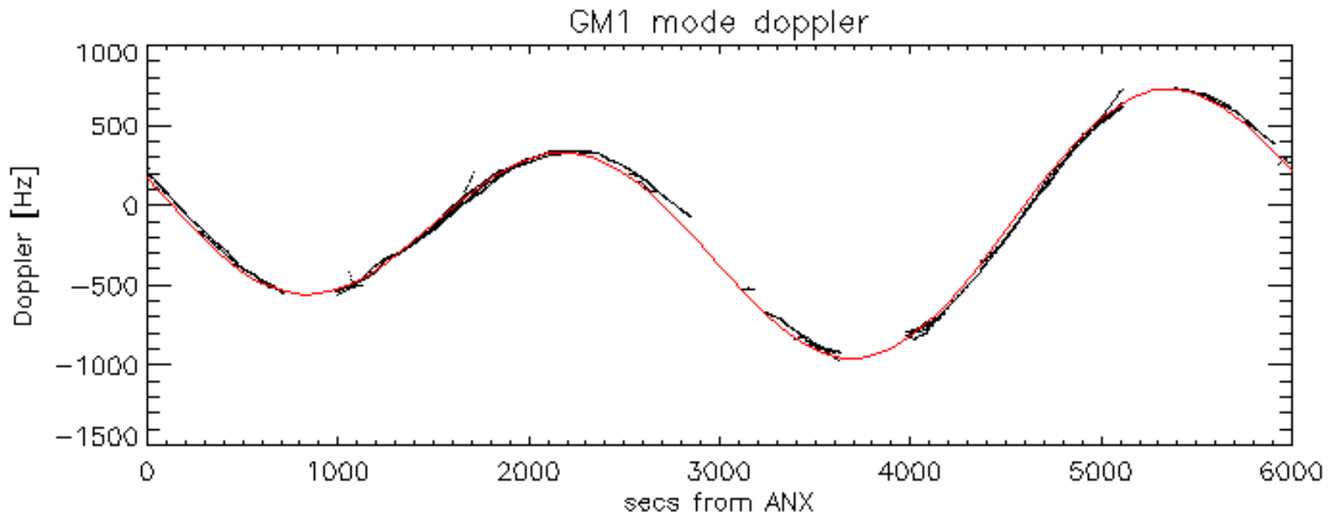
Preliminary report.The data is not yet controled

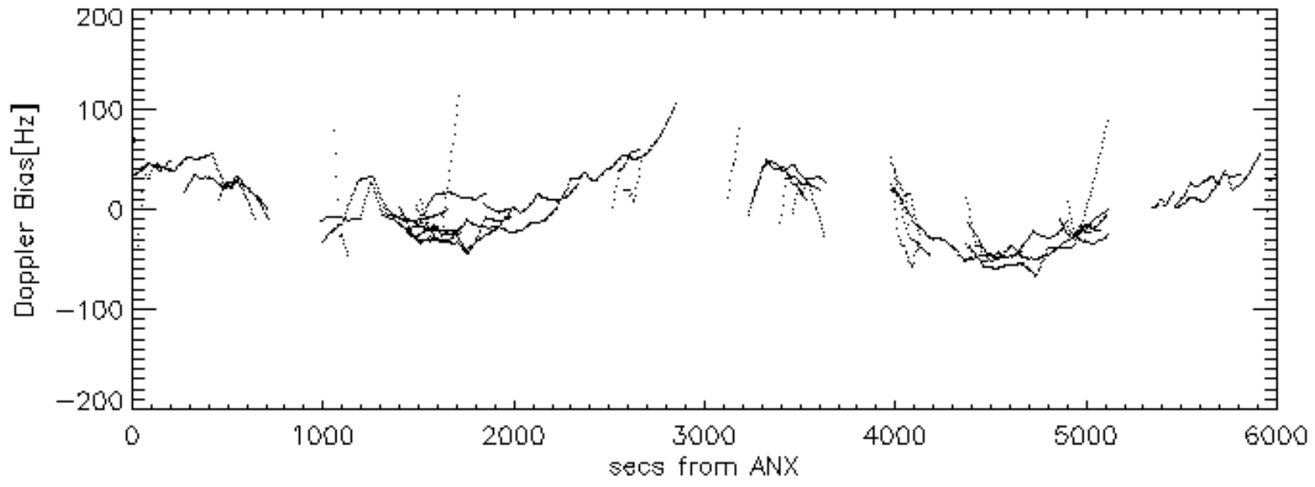

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

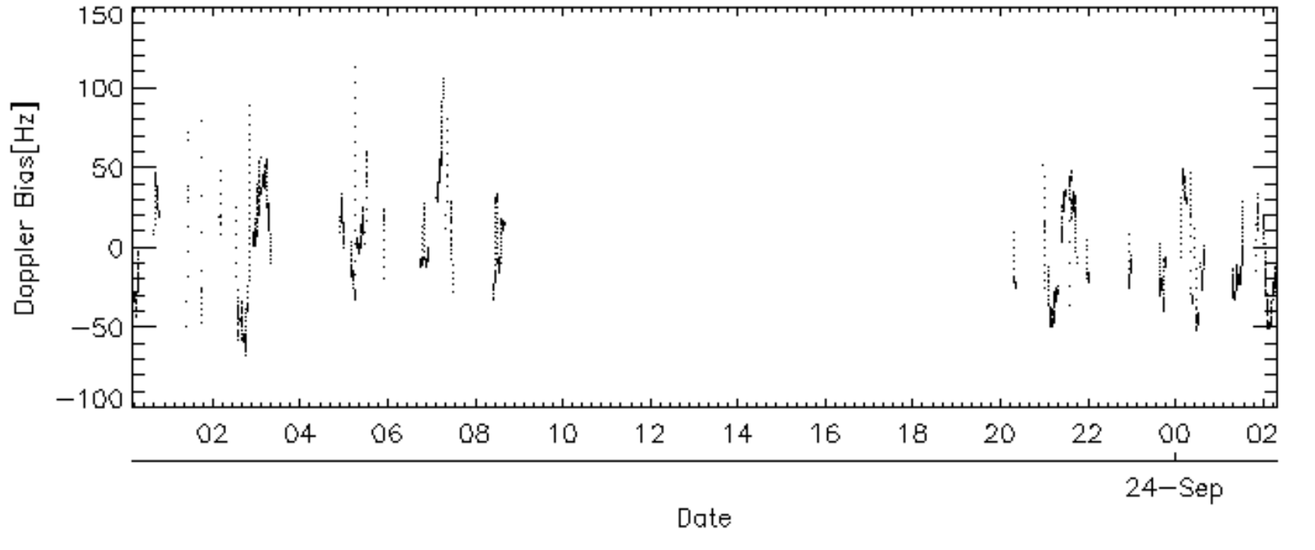

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

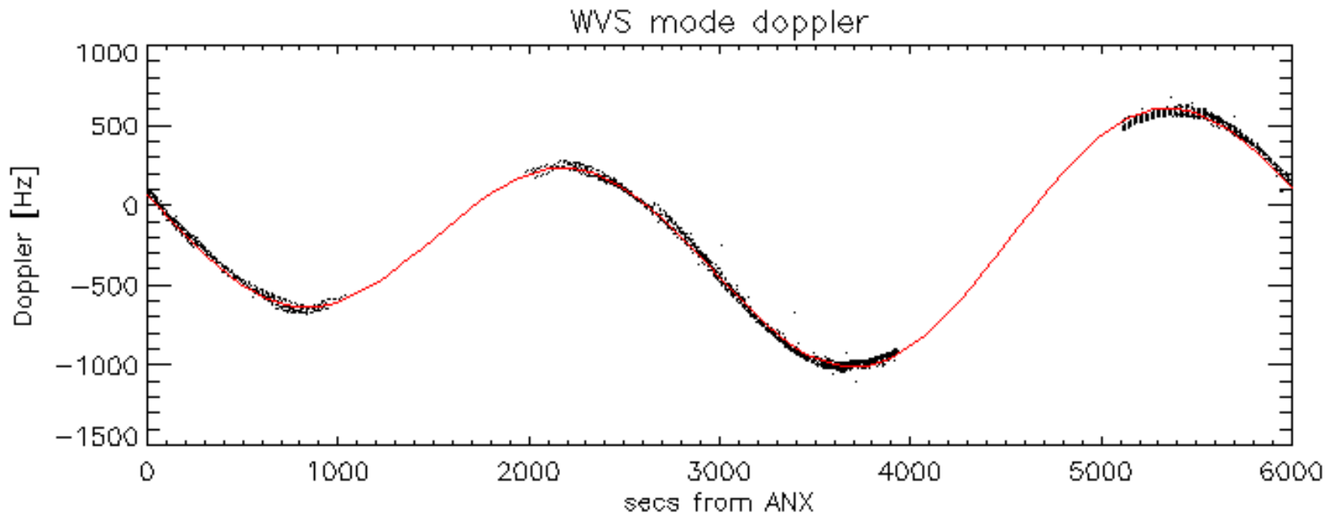

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

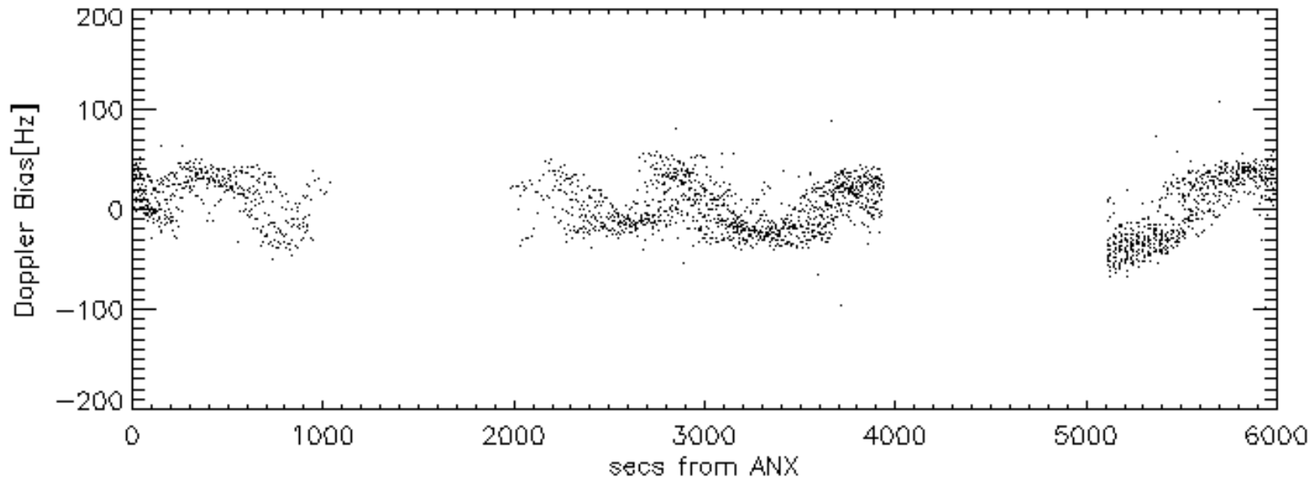

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

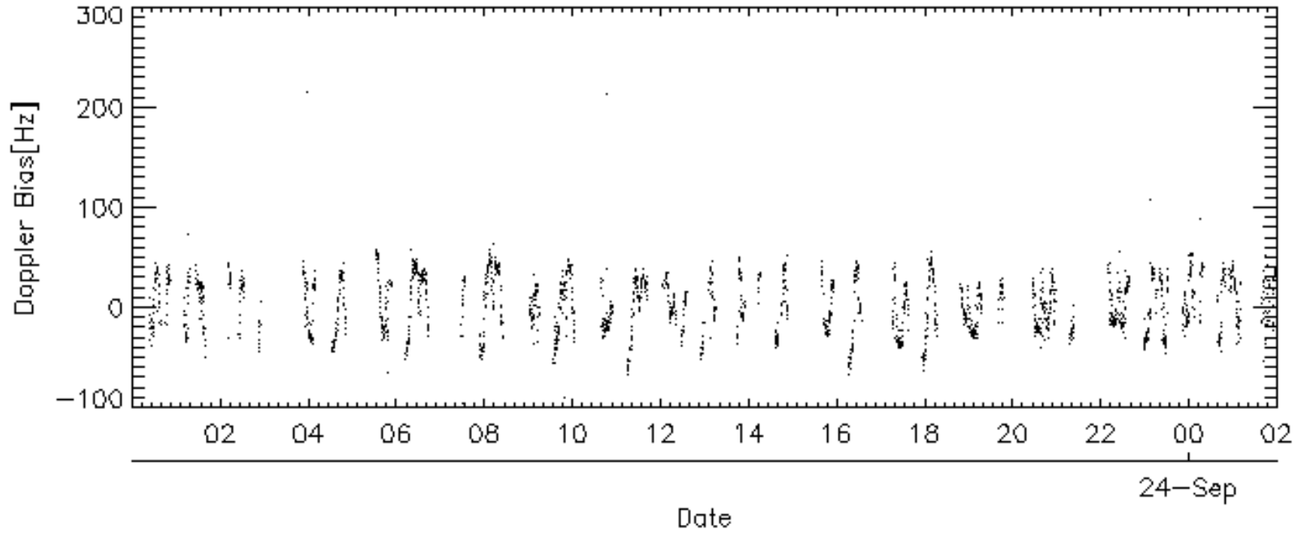

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

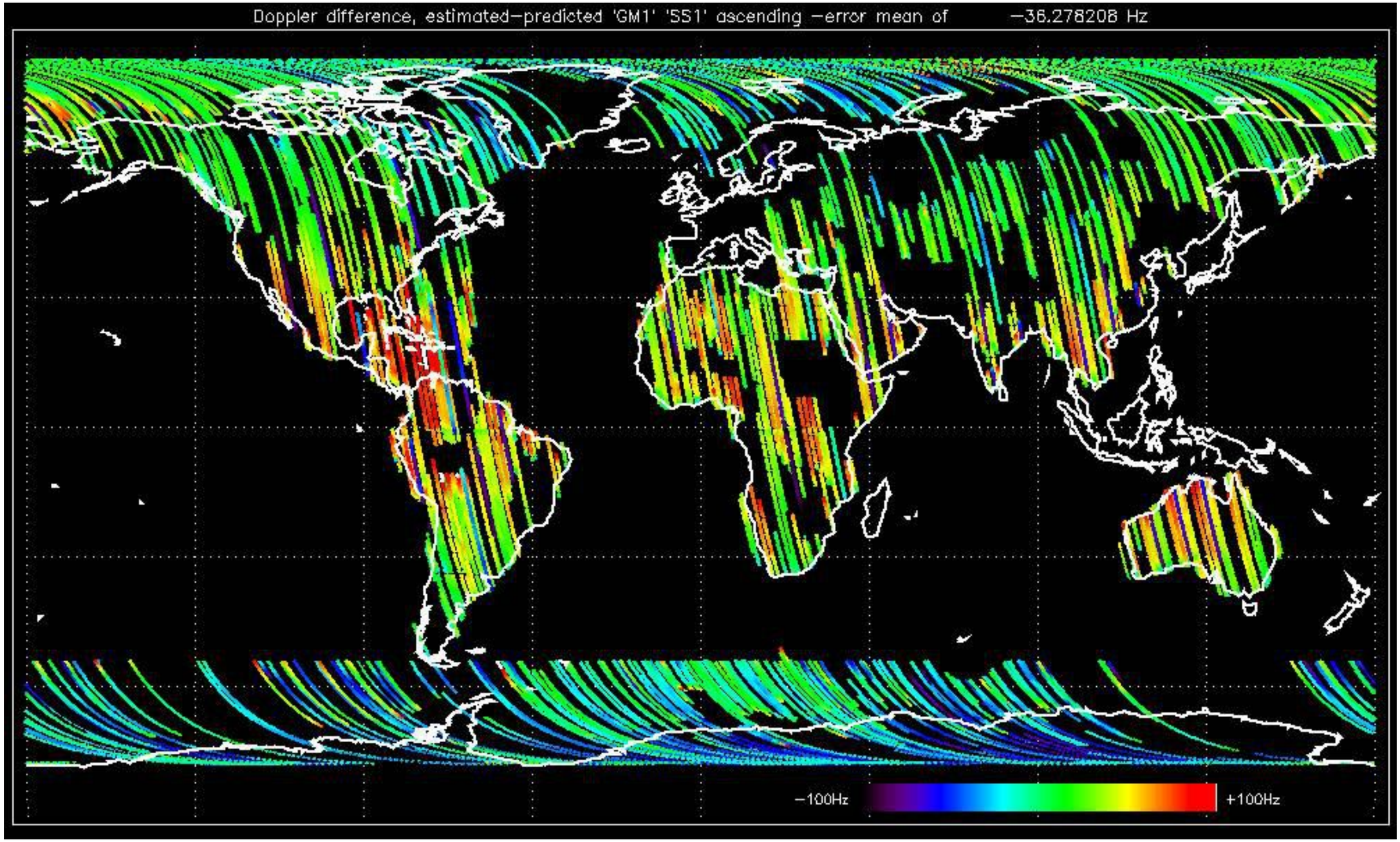

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

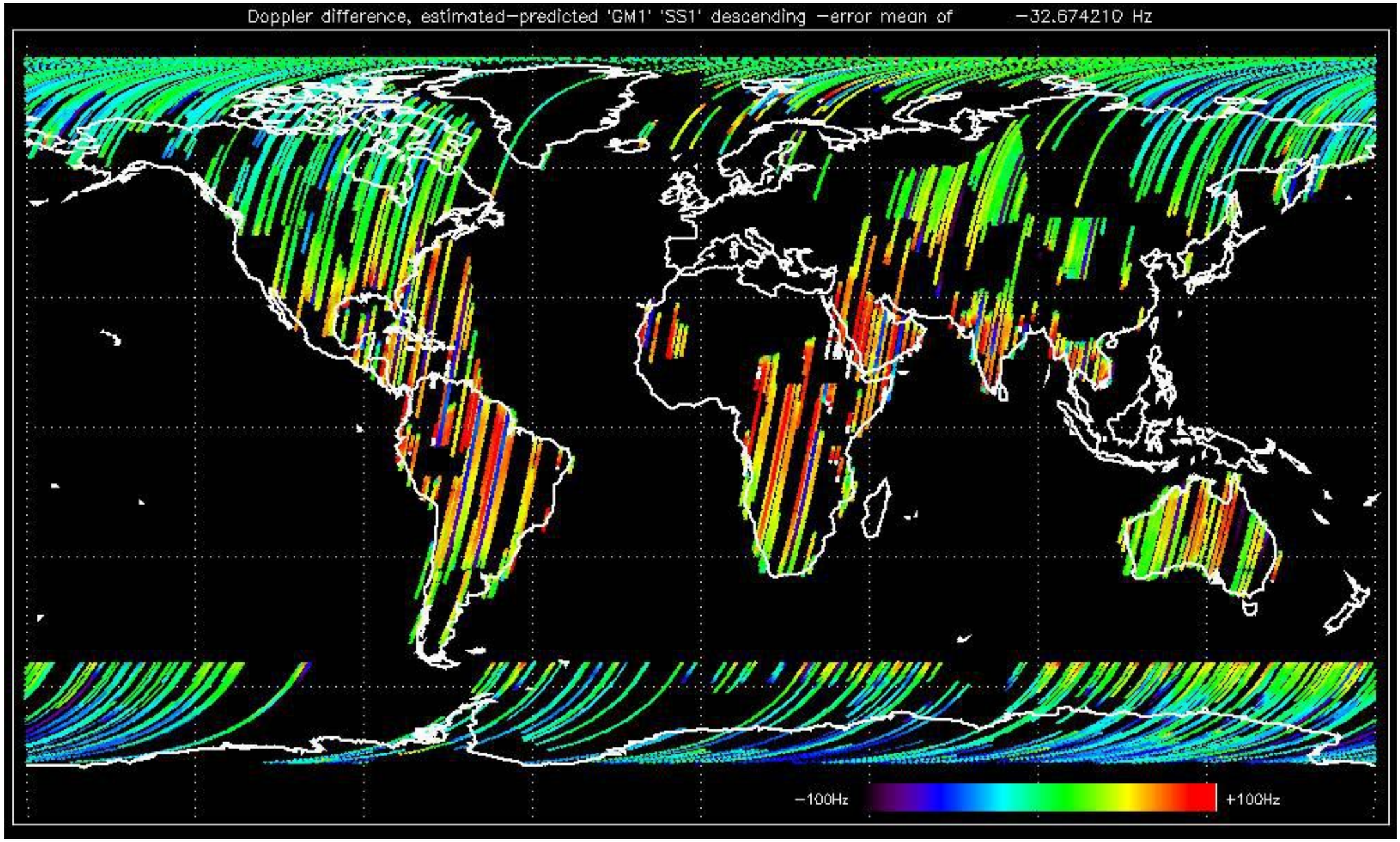

Doppler Bias[Hz]
150
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
00
02
24−Sep
Date

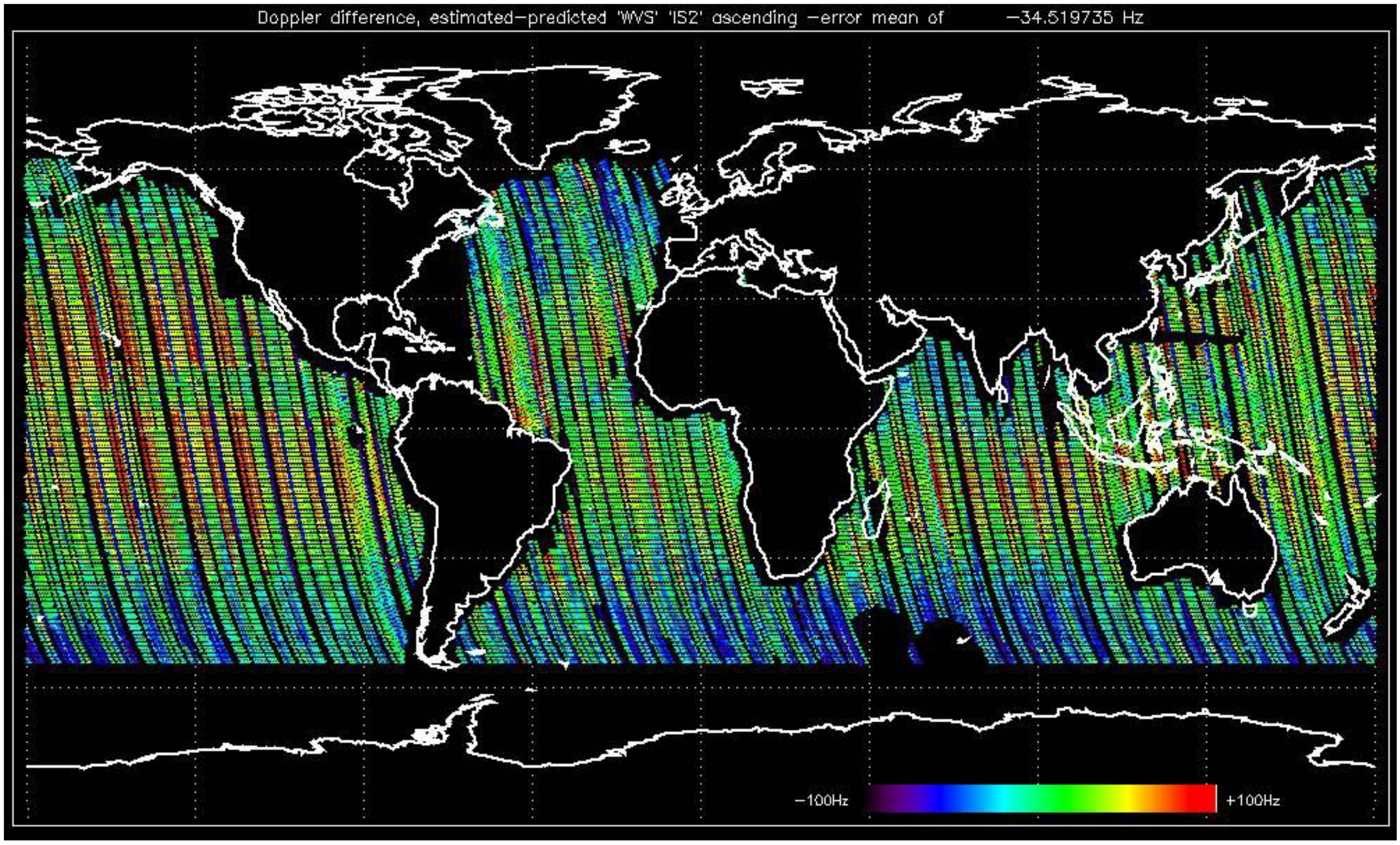

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

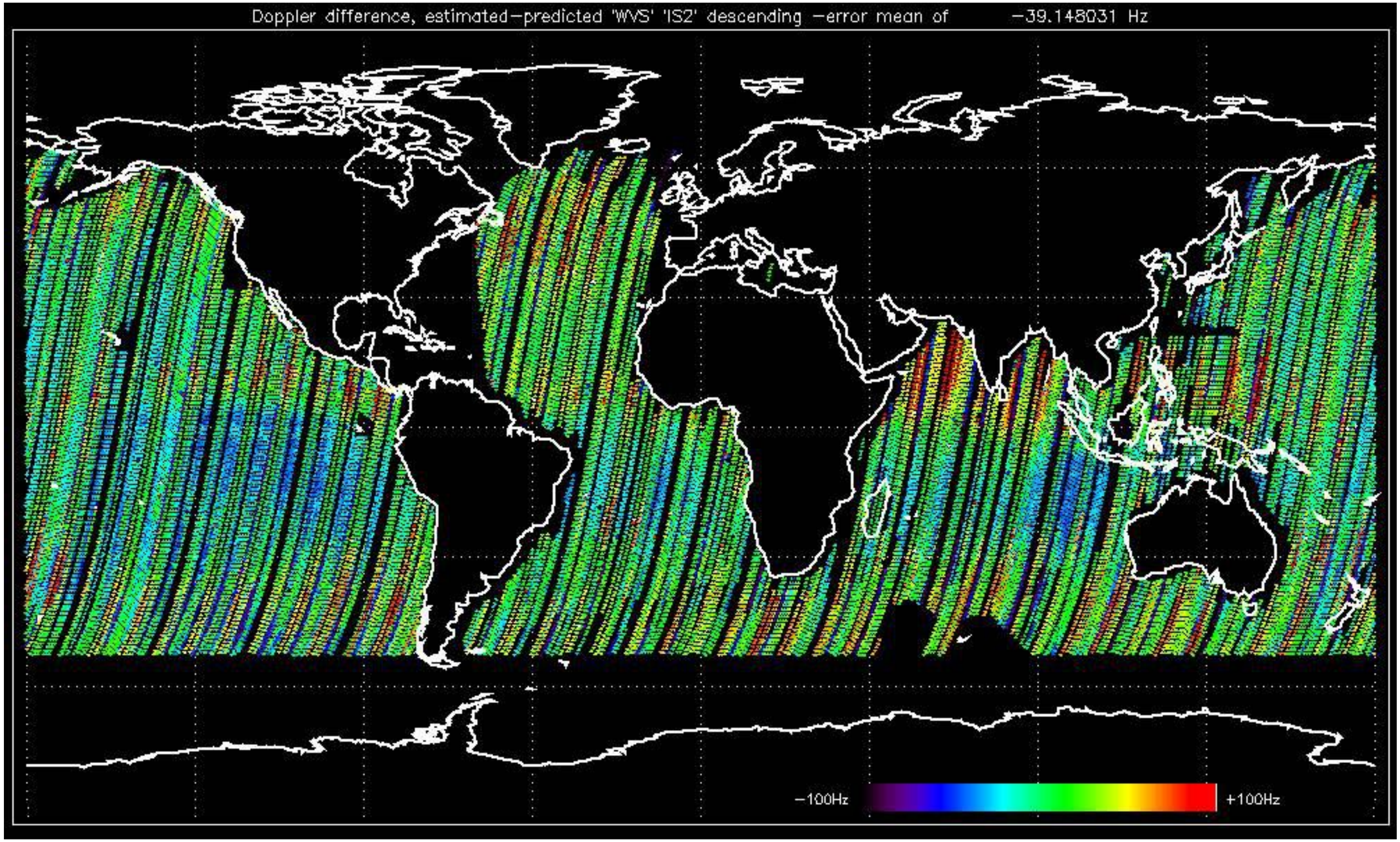

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −36.278208 Hz
−100Hz
+100Hz

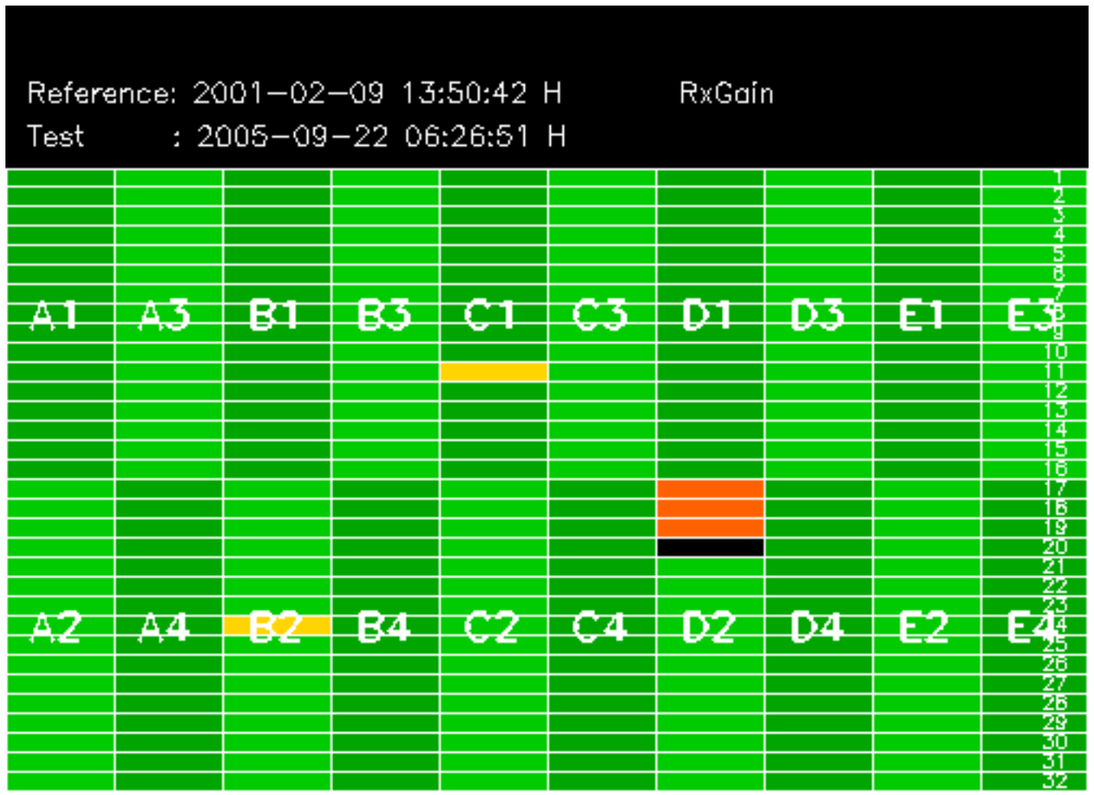

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -32.674210 Hz
-100Hz
+100Hz

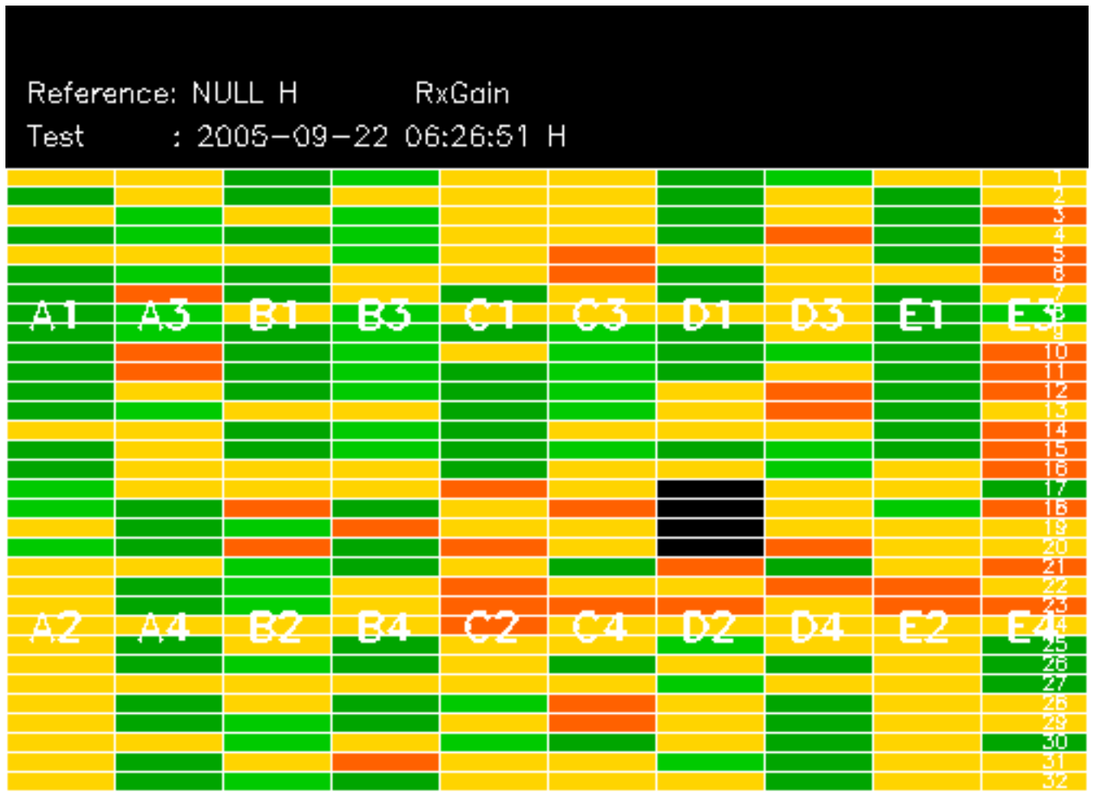

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −34.519735 Hz
−100Hz
+100Hz

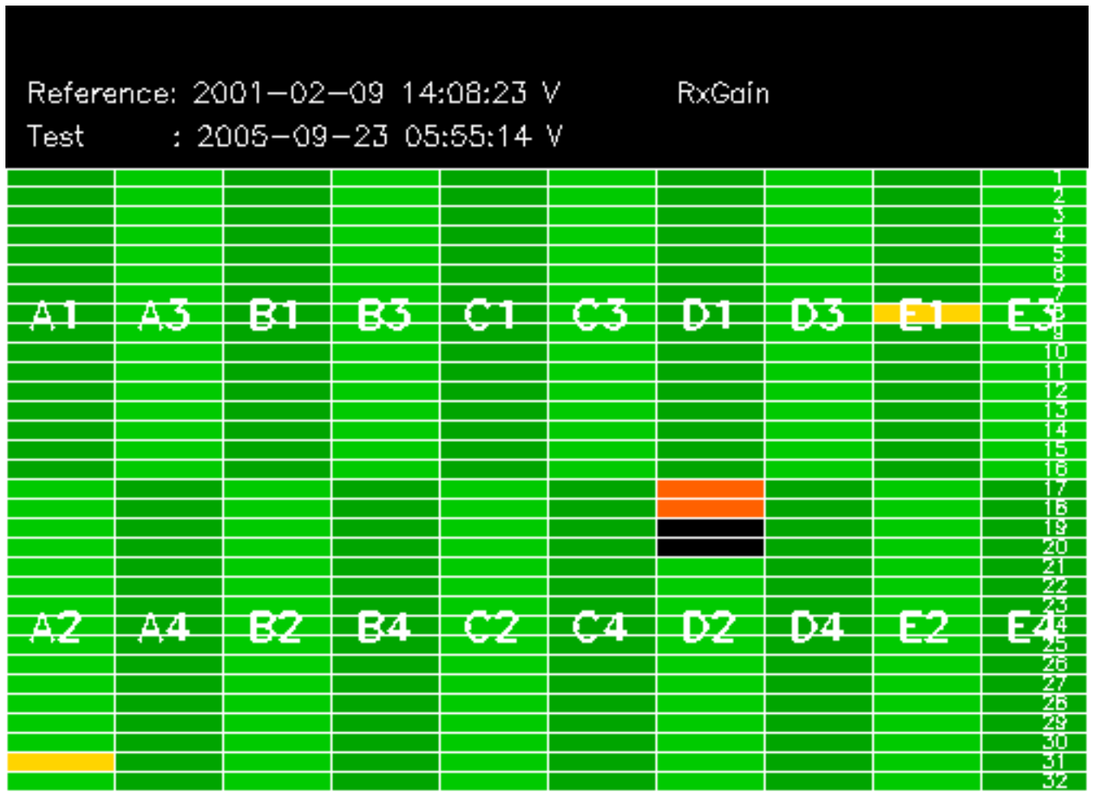

Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −39.148031 Hz
−100Hz
+100Hz

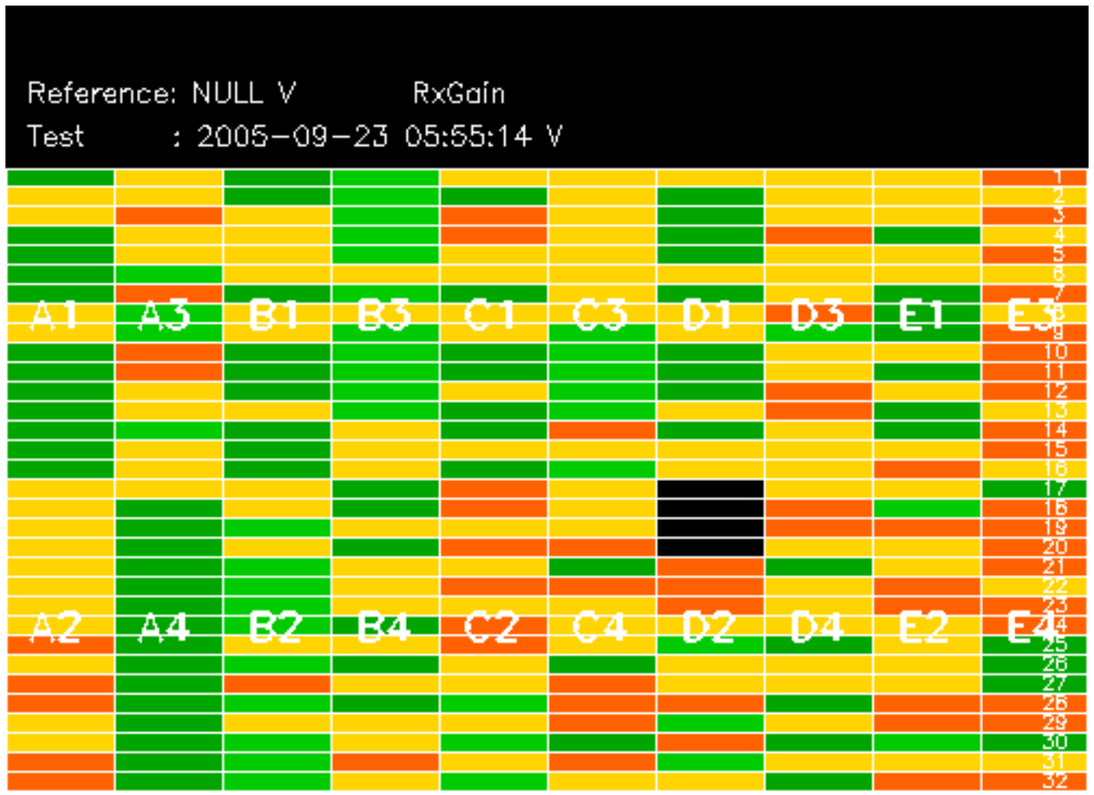
No anomalies observed on available MS products:

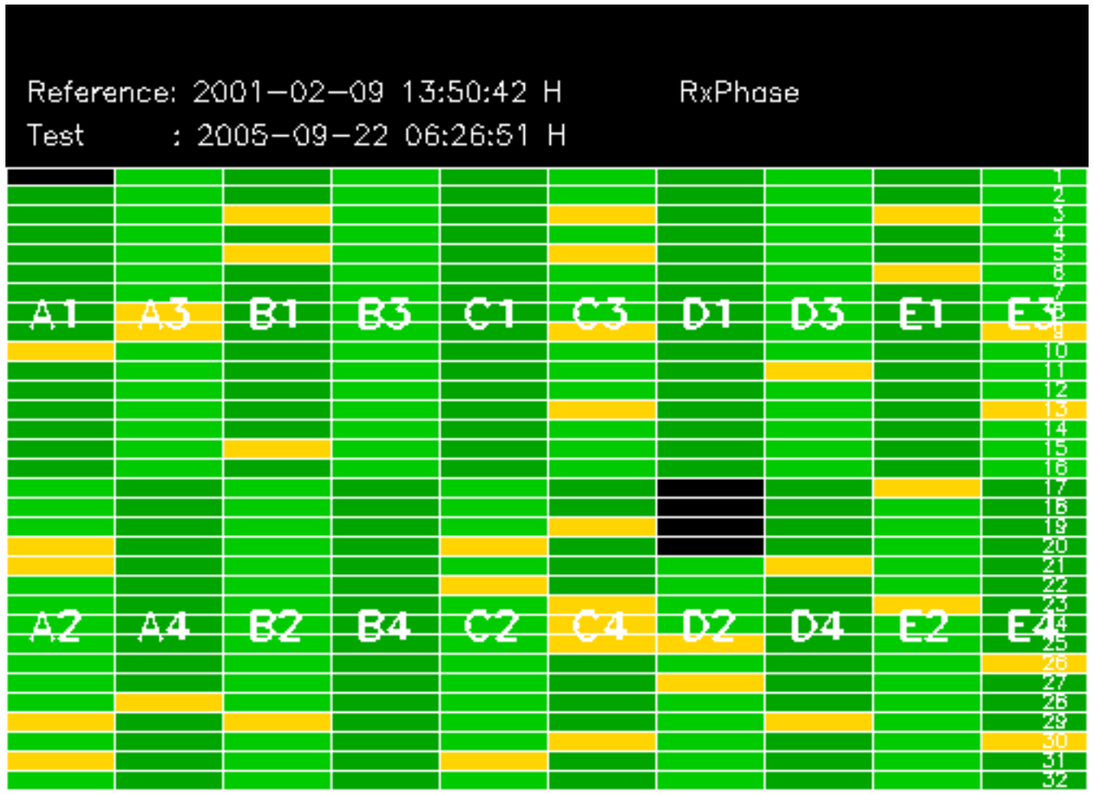
No anomalies observed.

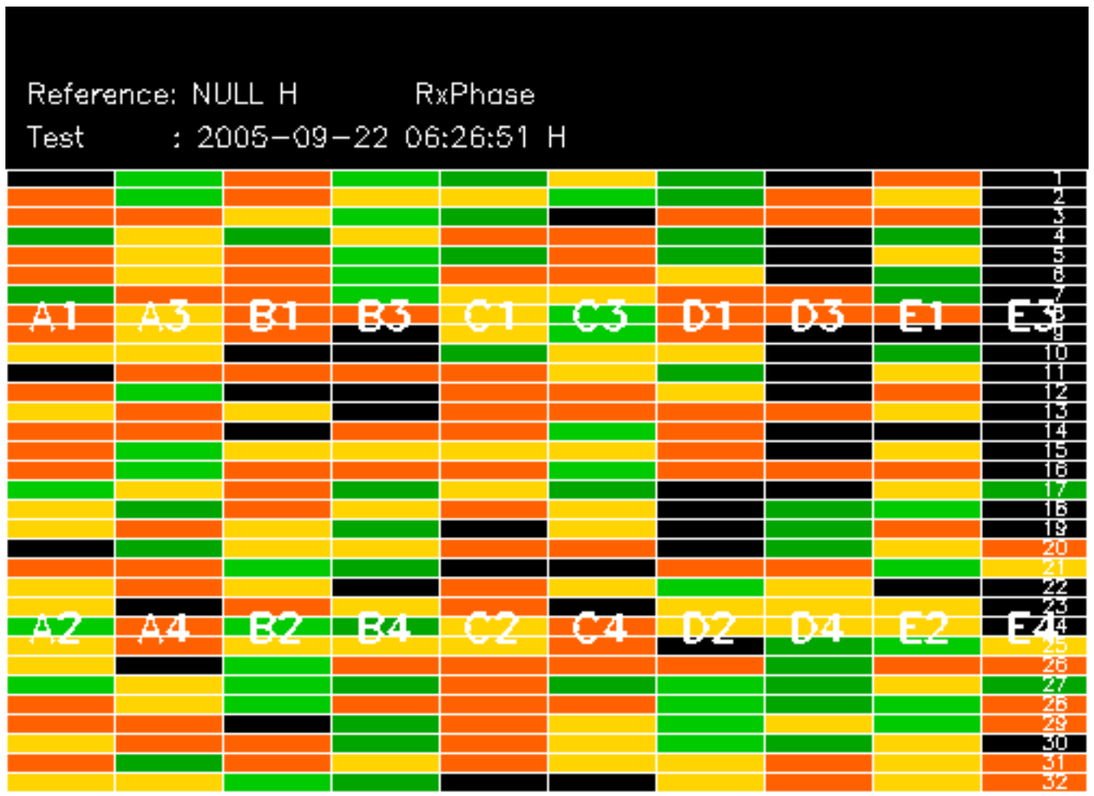

Reference: 2001-02-09 13:50:42 H
Test : 2005-09-22 06:26:51 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

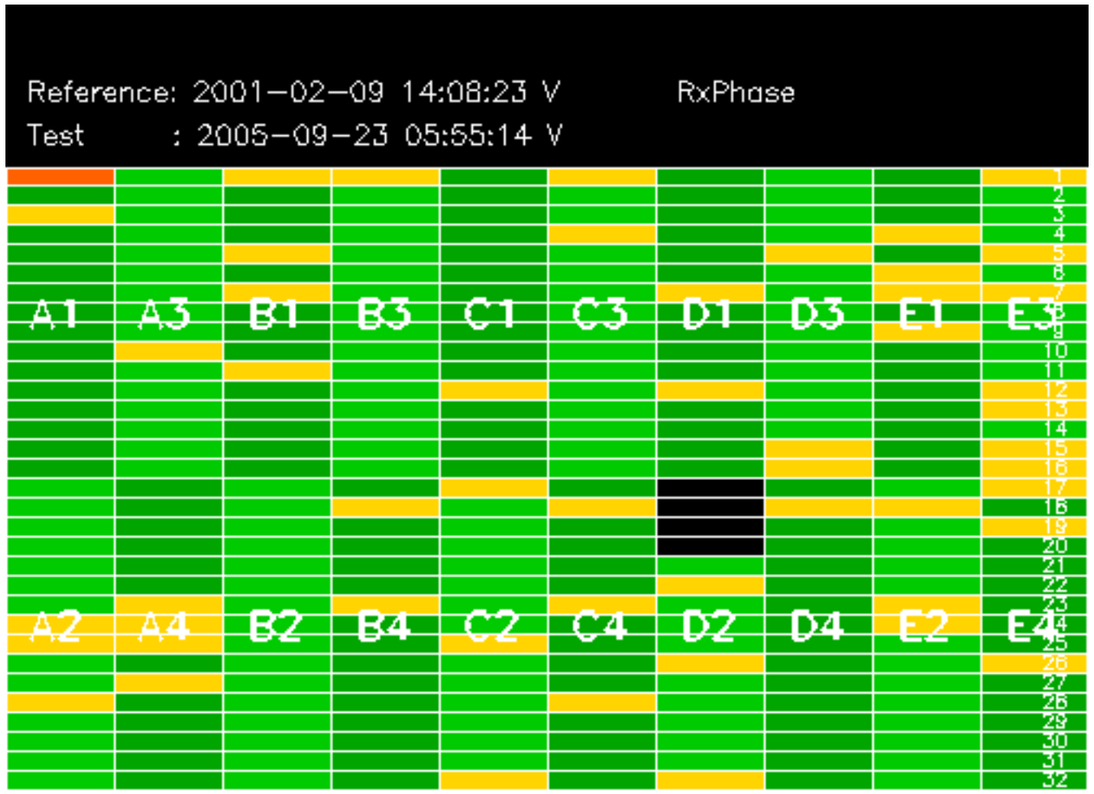

Reference: NULL H RxGain
Test : 2005-09-22 06:26:51 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

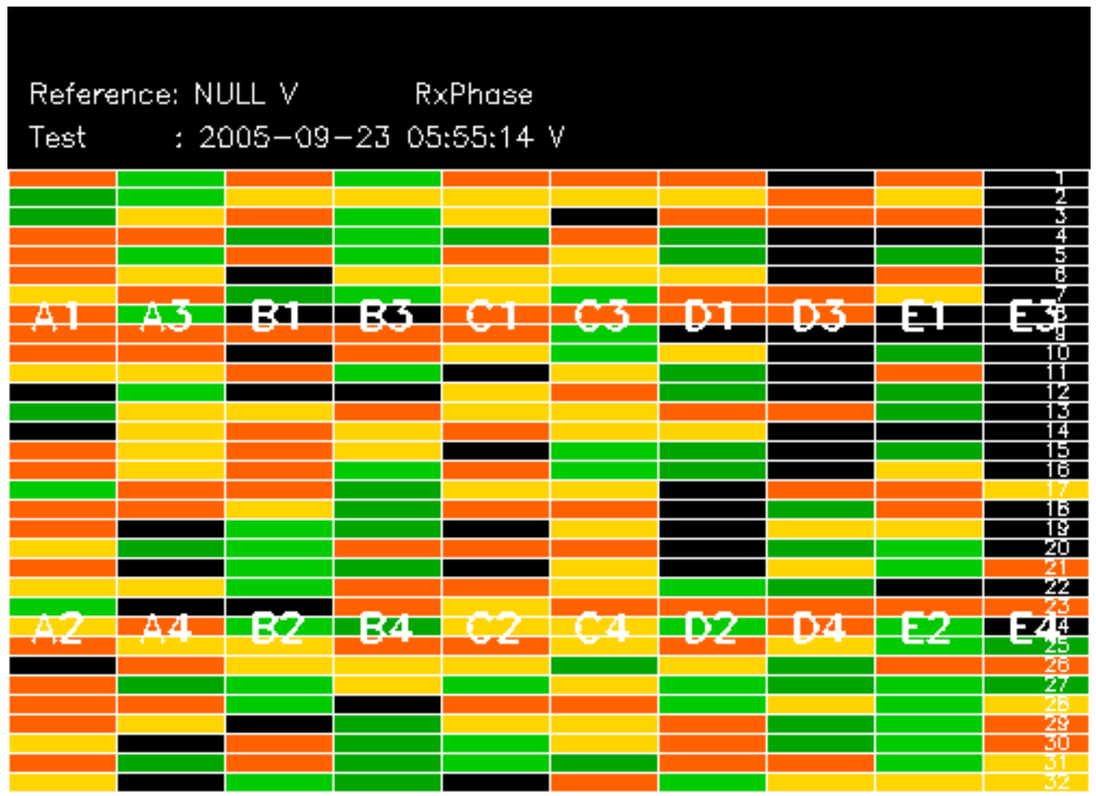

Reference: 2001-02-09 14:08:23 V
Test : 2005-09-23 05:55:14 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

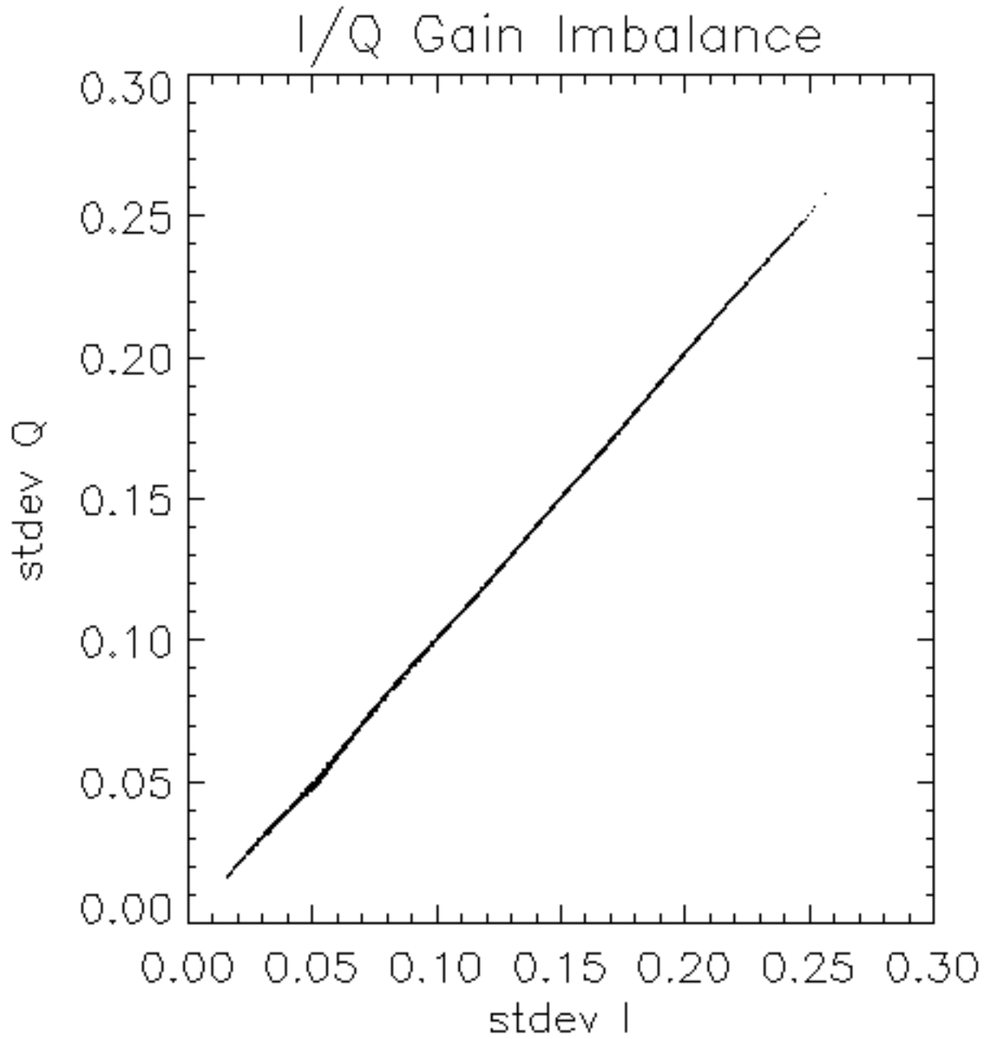

Reference: NULL V RxGain
Test : 2005-09-23 05:55:14 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

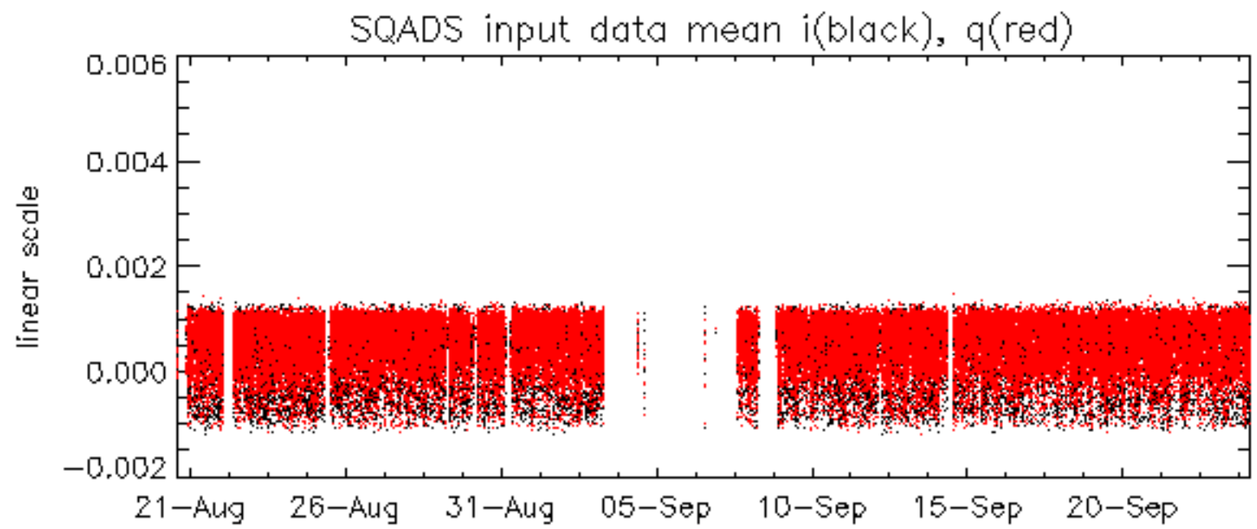

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2005-09-22 06:26:51 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

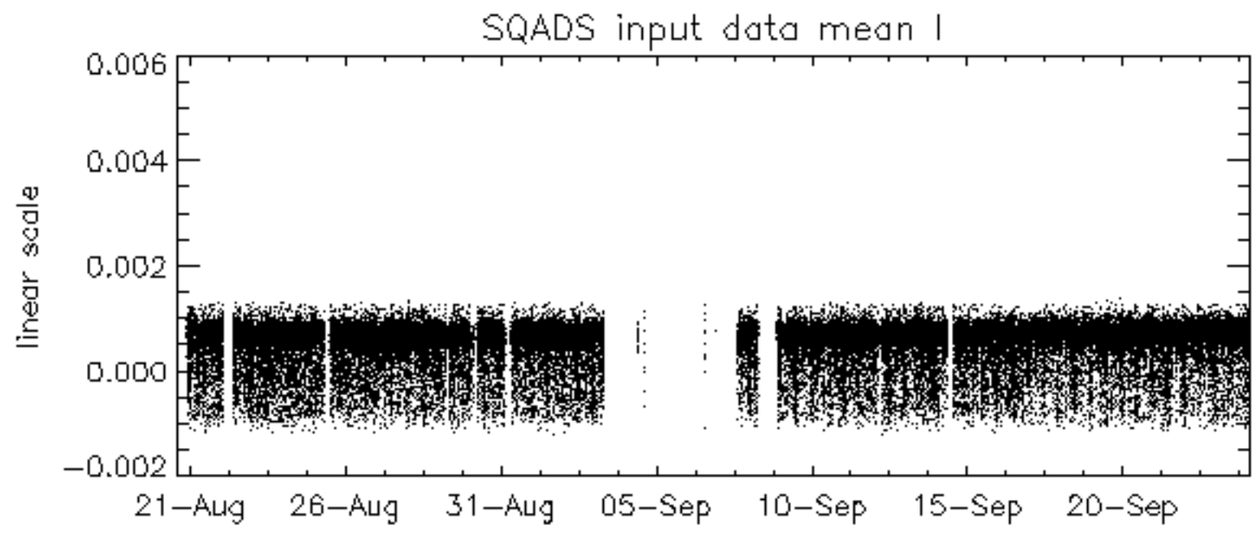

Reference: NULL H RxPhase
Test : 2005-09-22 06:26:51 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

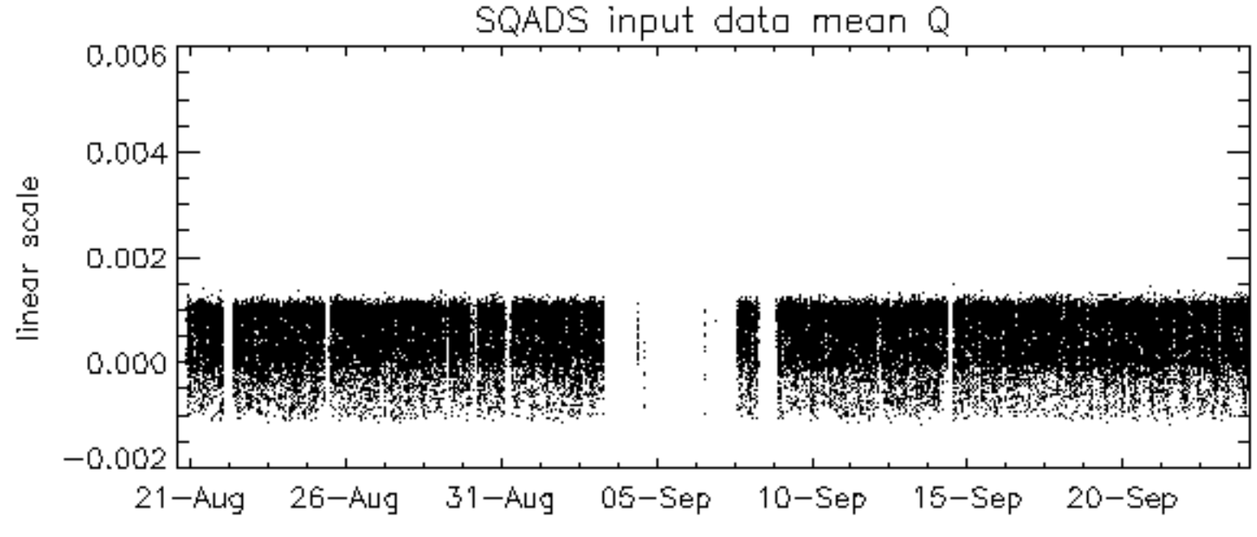

Reference: 2001-02-09 14:08:23 V
Test : 2005-09-23 05:55:14 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

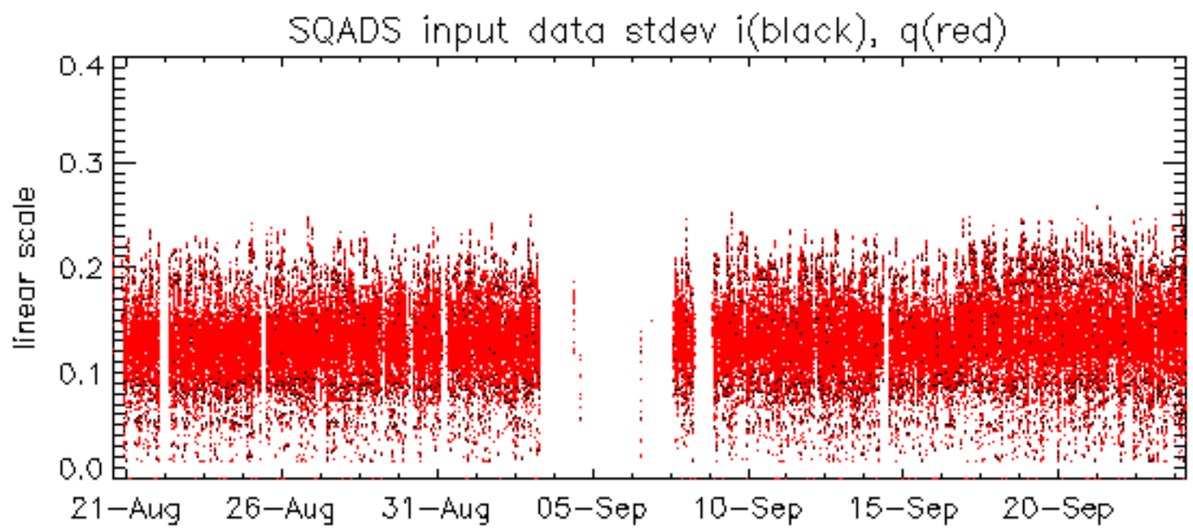

Reference: NULL V RxPhase
Test : 2005-09-23 05:55:14 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

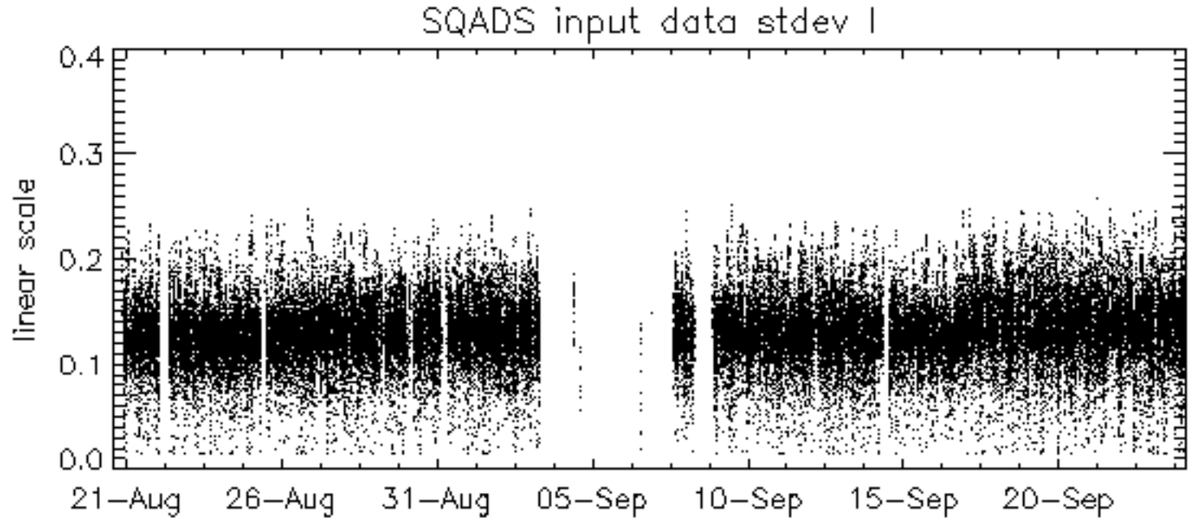

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

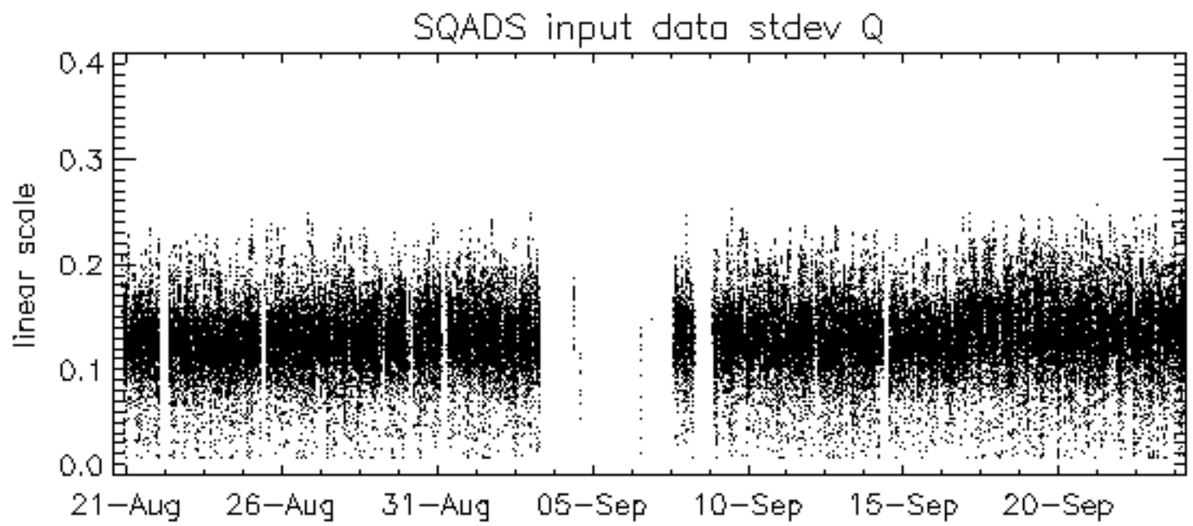

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep

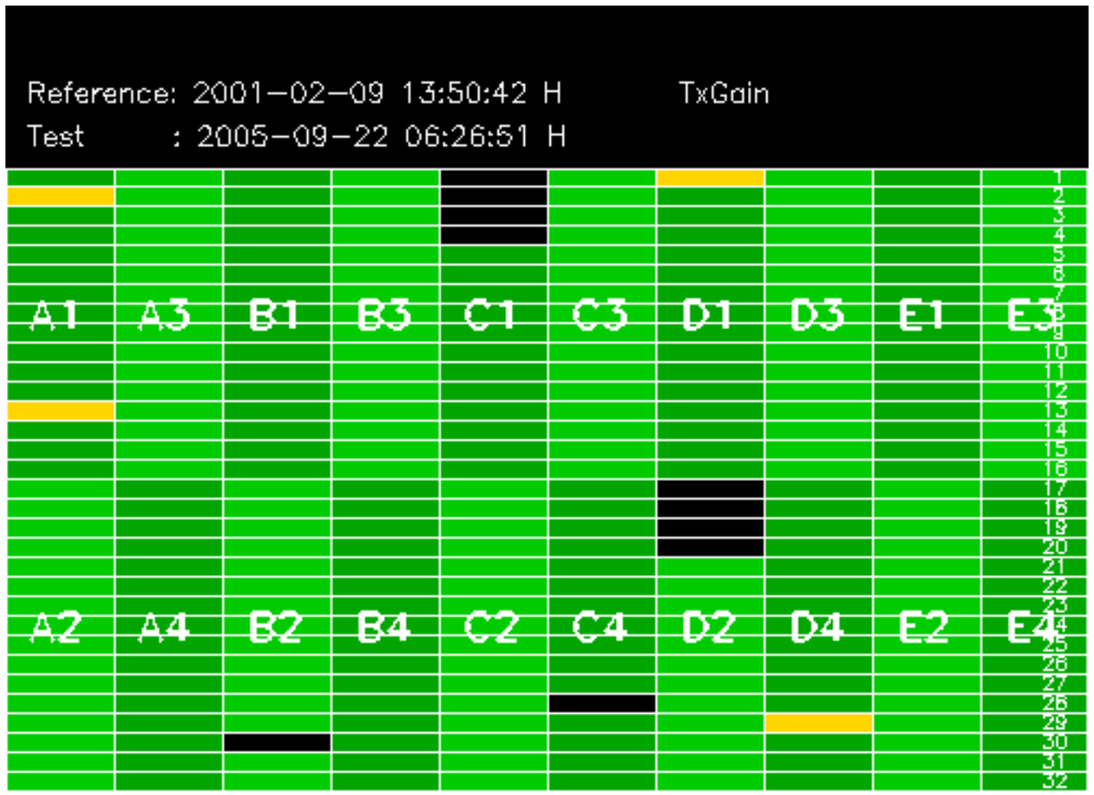

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep

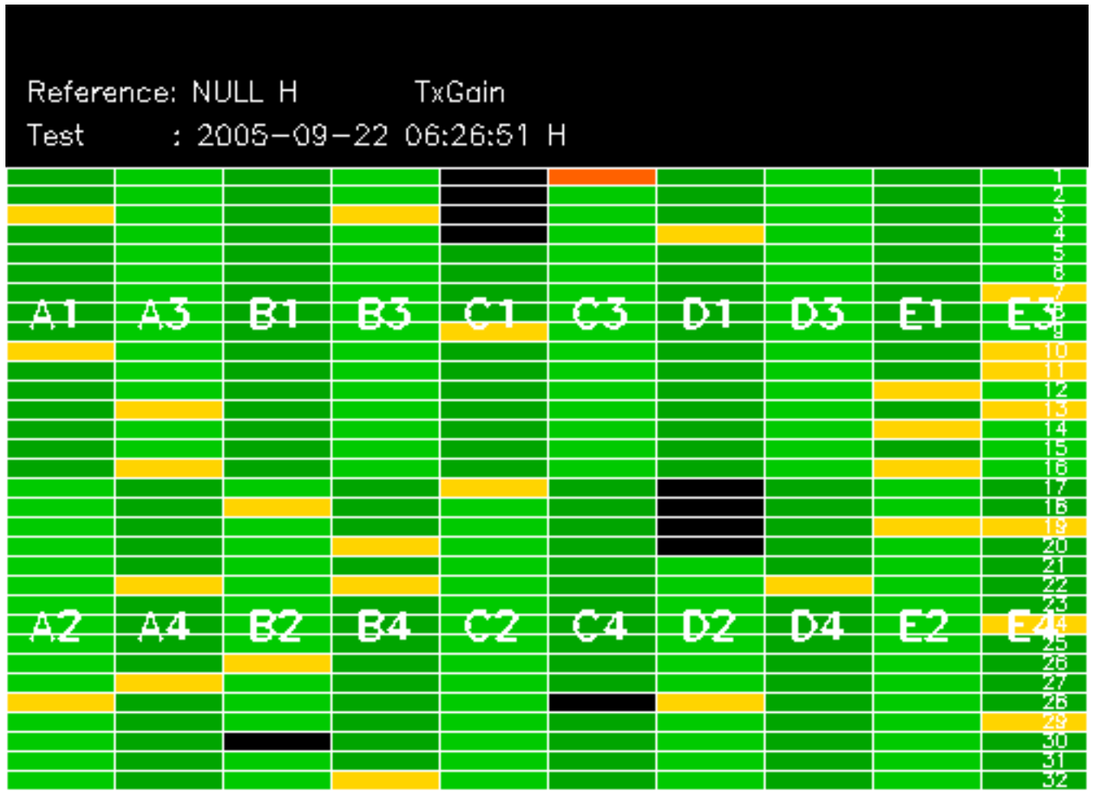

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep

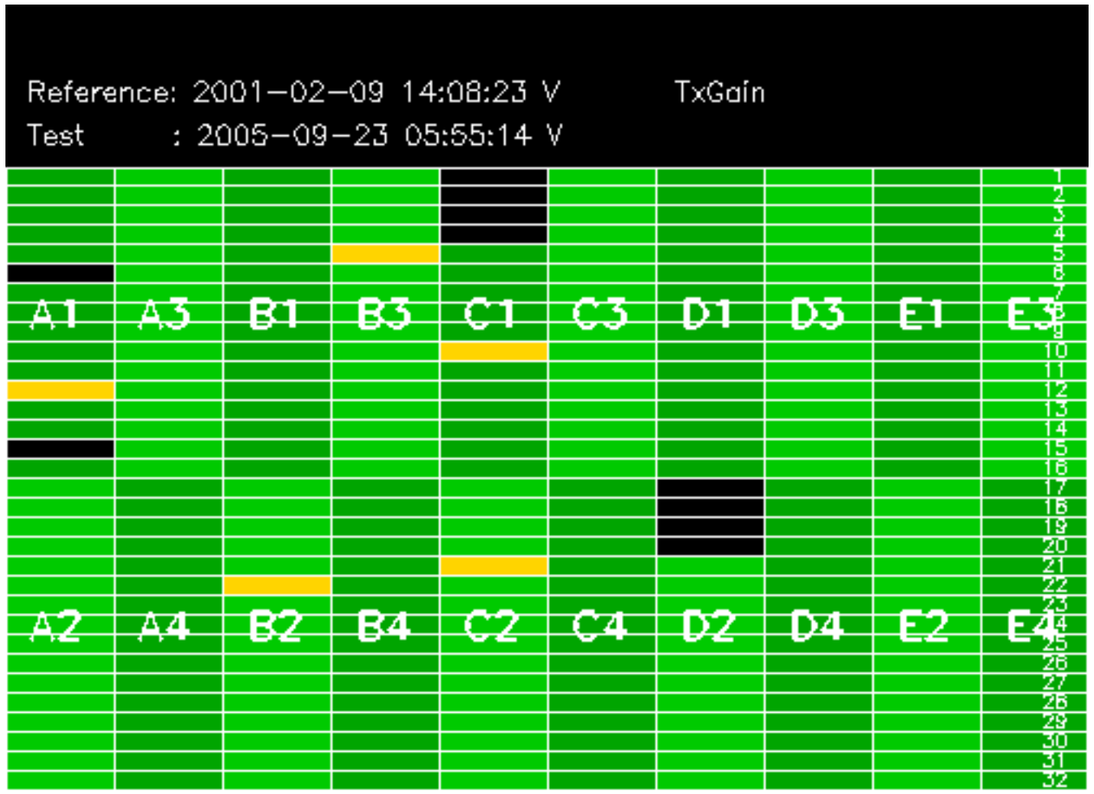

SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep

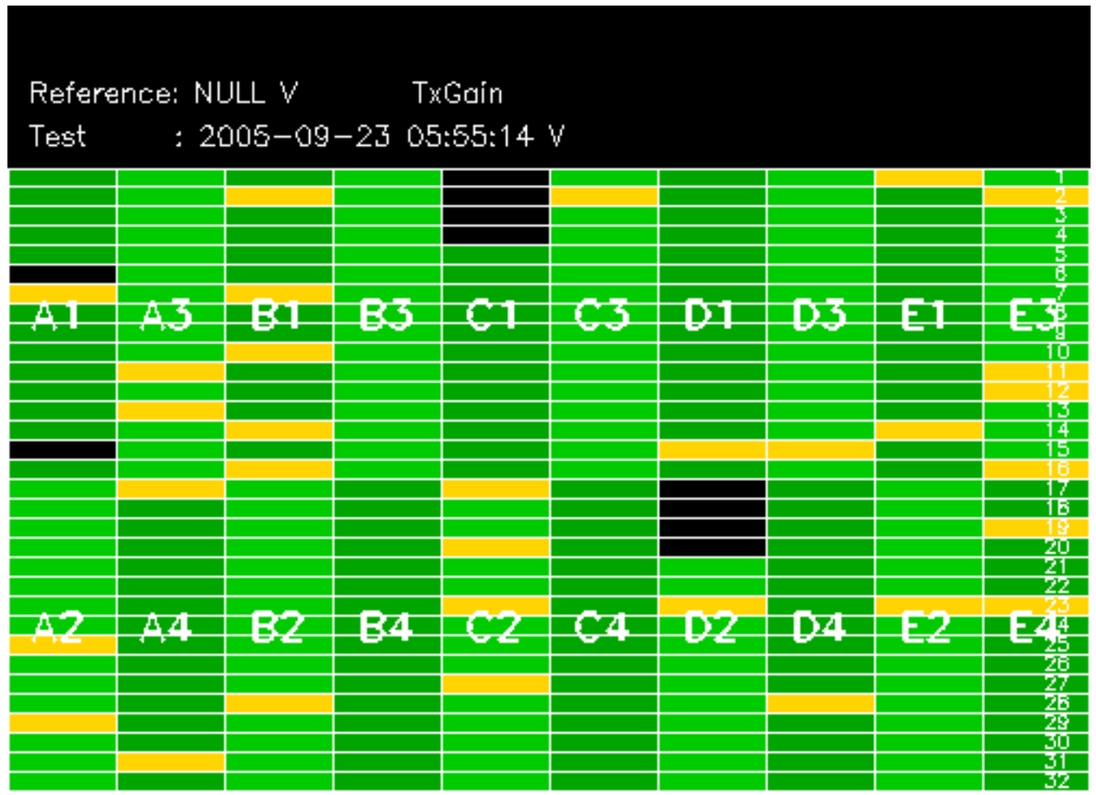

SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep

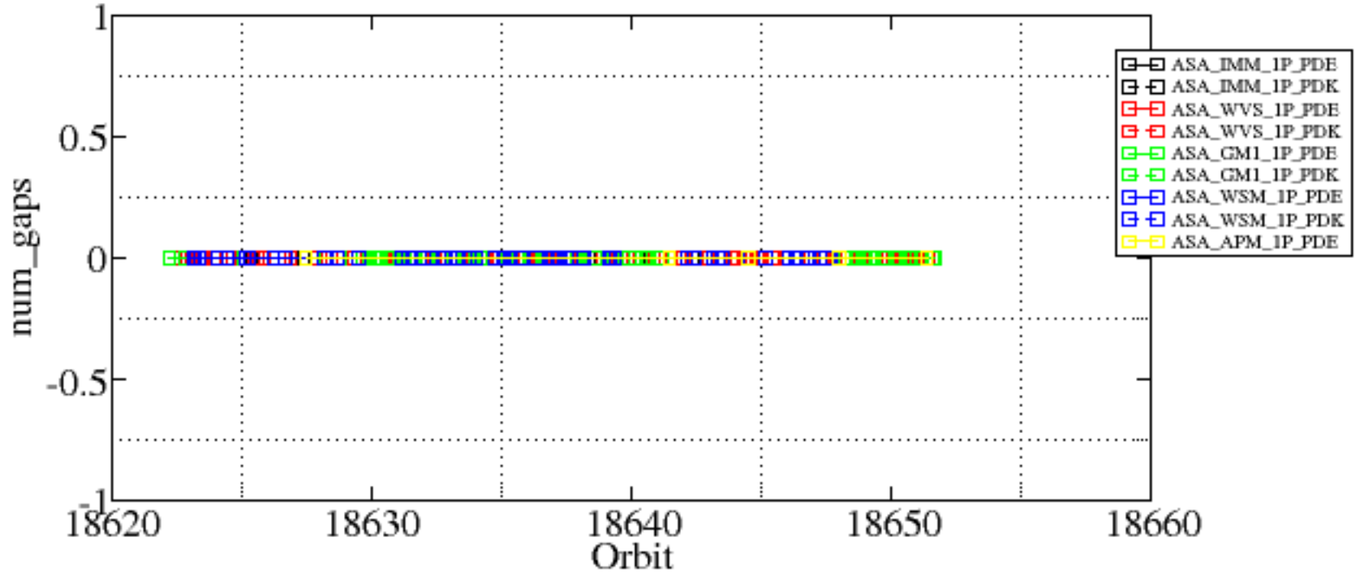

Reference: 2001-02-09 13:50:42 H
Test : 2005-09-22 06:26:51 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

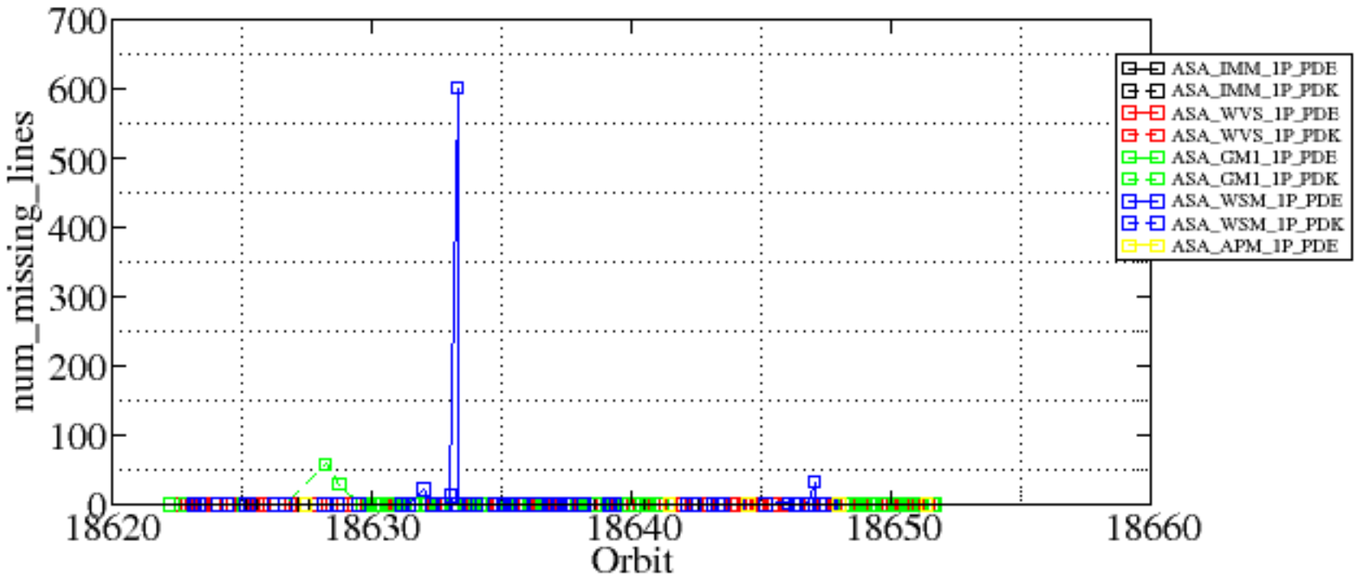

Reference: NULL H TxGain
Test : 2005-09-22 06:26:51 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

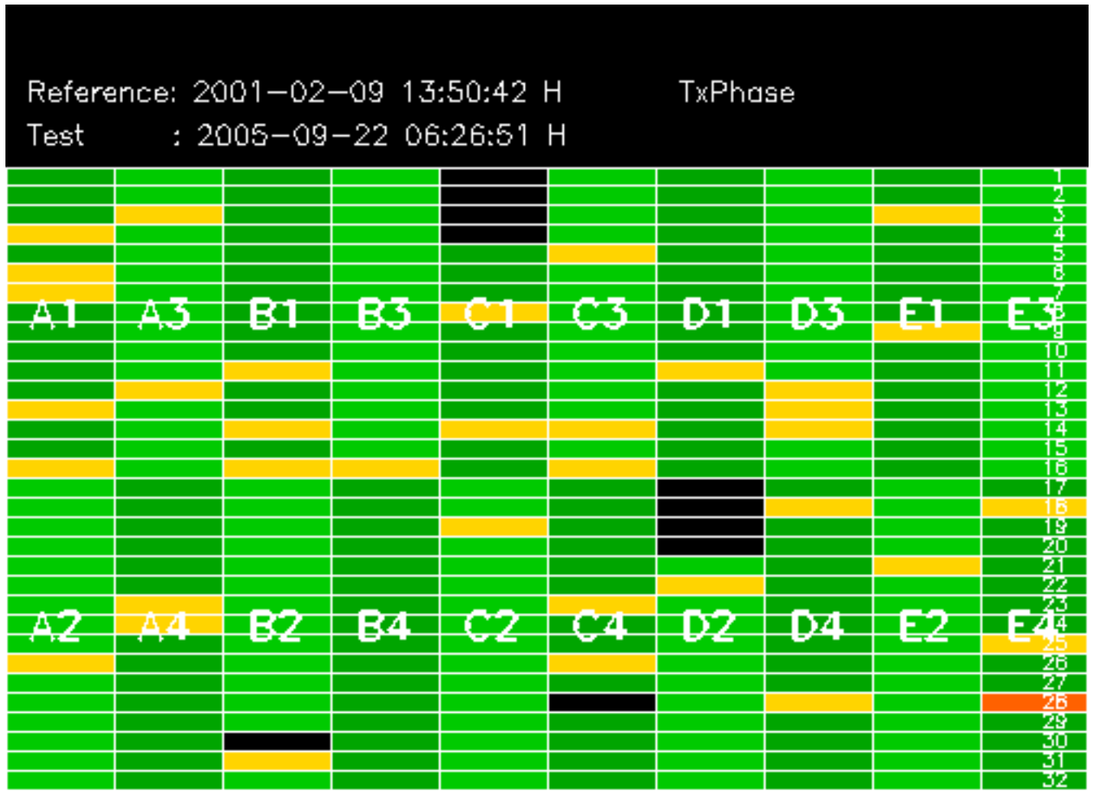

Reference: 2001-02-09 14:08:23 V
Test : 2005-09-23 05:55:14 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

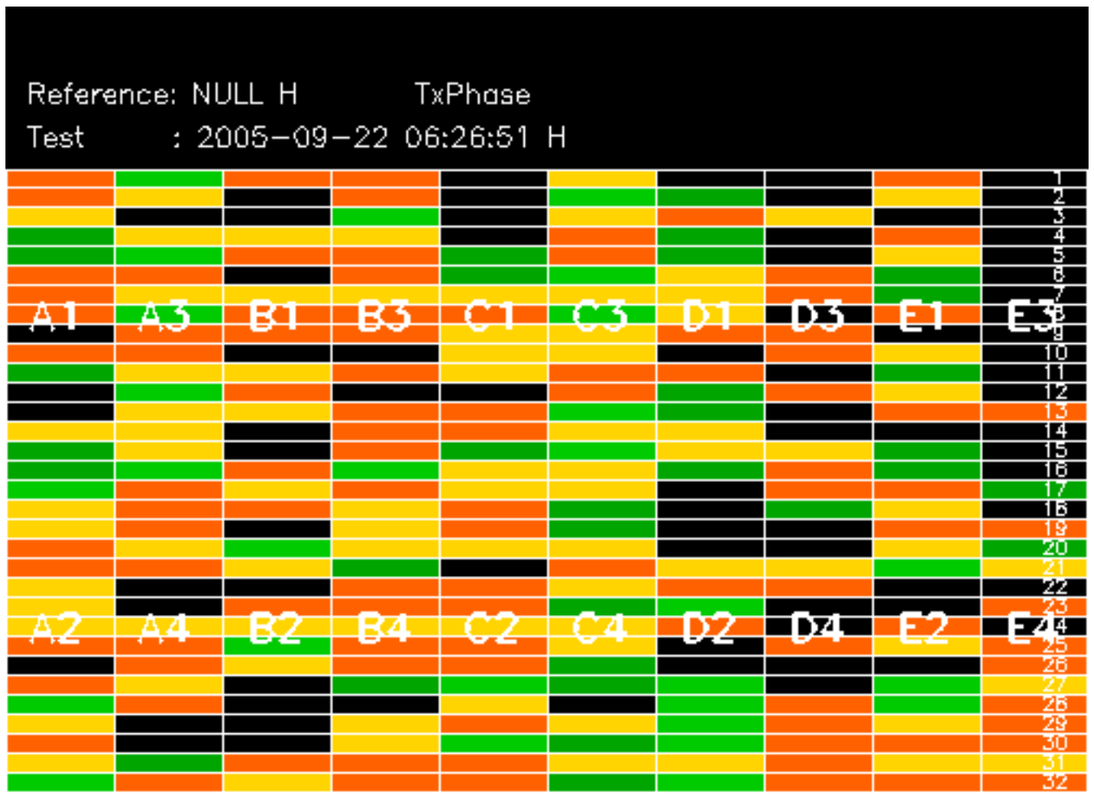

Reference: NULL V TxGain
Test : 2005-09-23 05:55:14 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

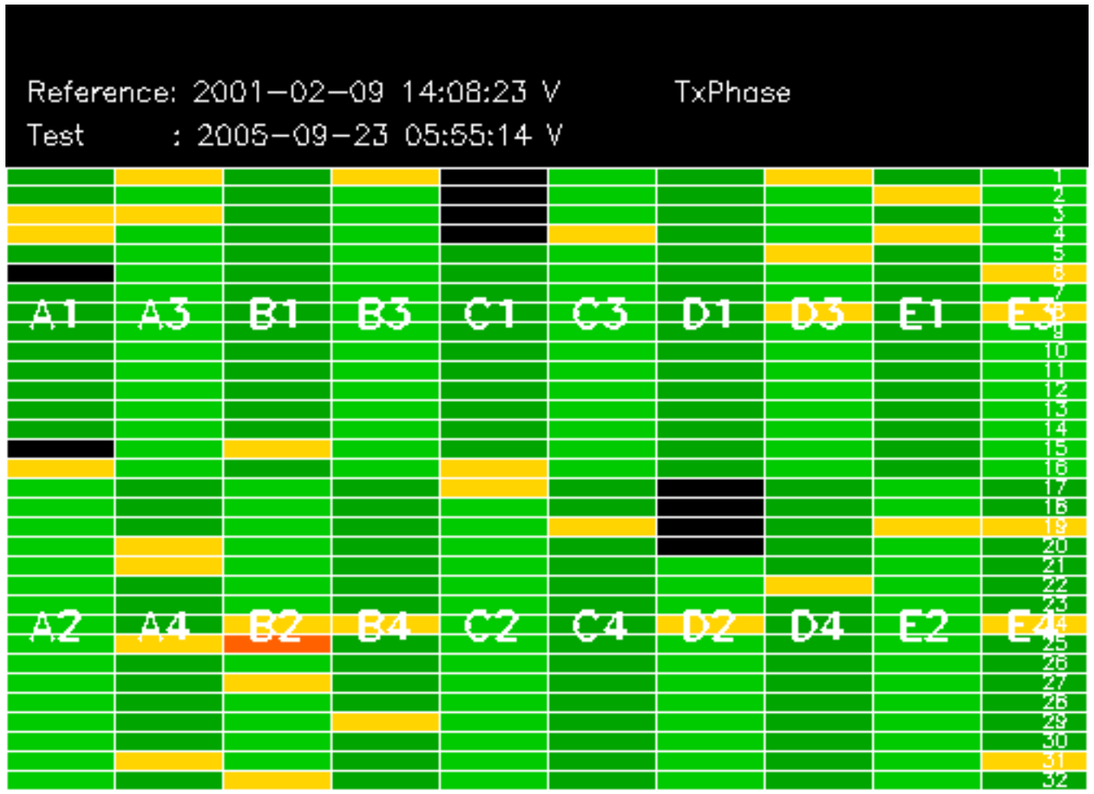
Summary of analysis for the last 3 days 2005092[234]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_GM1_1PNPDK20050922_104238_000006162041_00037_18628_6169.N1 </td> <td>0 </td> <td>58 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20050922_113749_000005012041_00037_18628_6240.N1 </td> <td>0 </td> <td>29 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20050922_170449_000002442041_00041_18632_9995.N1 </td> <td>0 </td> <td>22 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20050922_184757_000003042041_00042_18633_0010.N1 </td> <td>0 </td> <td>13 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20050922_191352_000000672041_00042_18633_0013.N1 </td> <td>0 </td> <td>601 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20050923_163431_000001522041_00055_18646_0167.N1 </td> <td>0 </td> <td>2 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20050923_181716_000000672041_00056_18647_0174.N1 </td> <td>0 </td> <td>32 </td></tr>
</table>

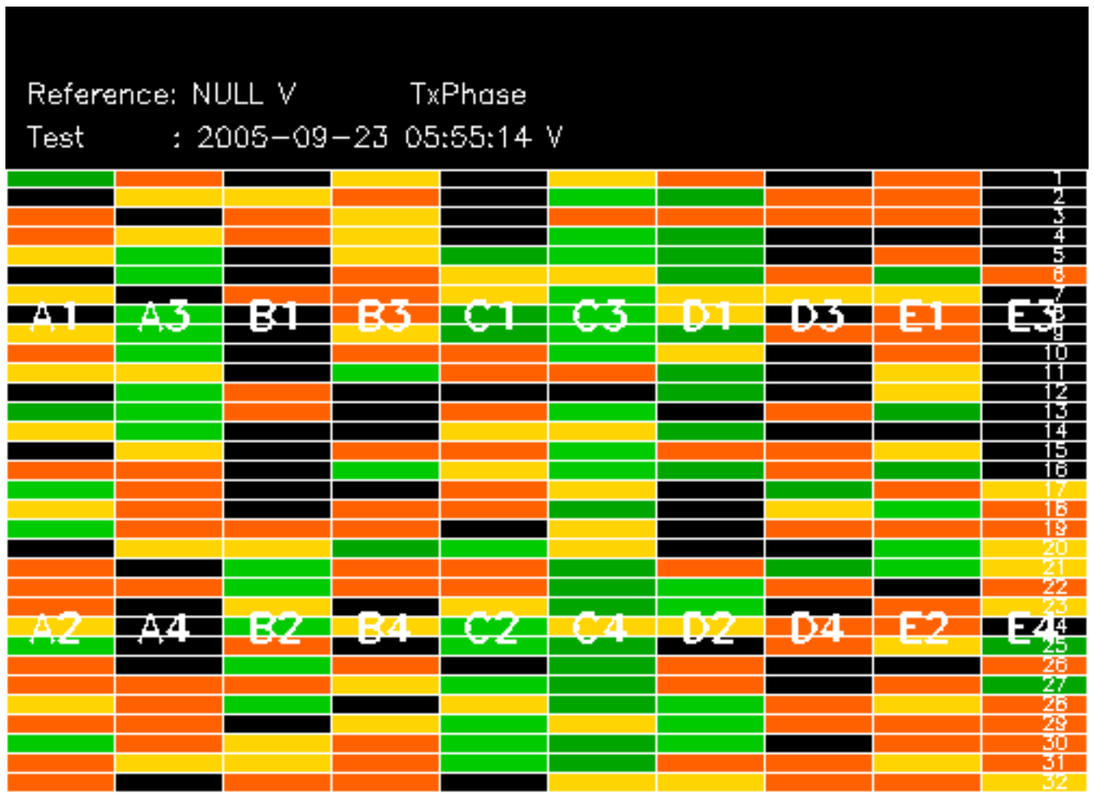

num_gaps
1
0.5
0
-0.5
-1
18620
18630
18640
18650
18660
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE

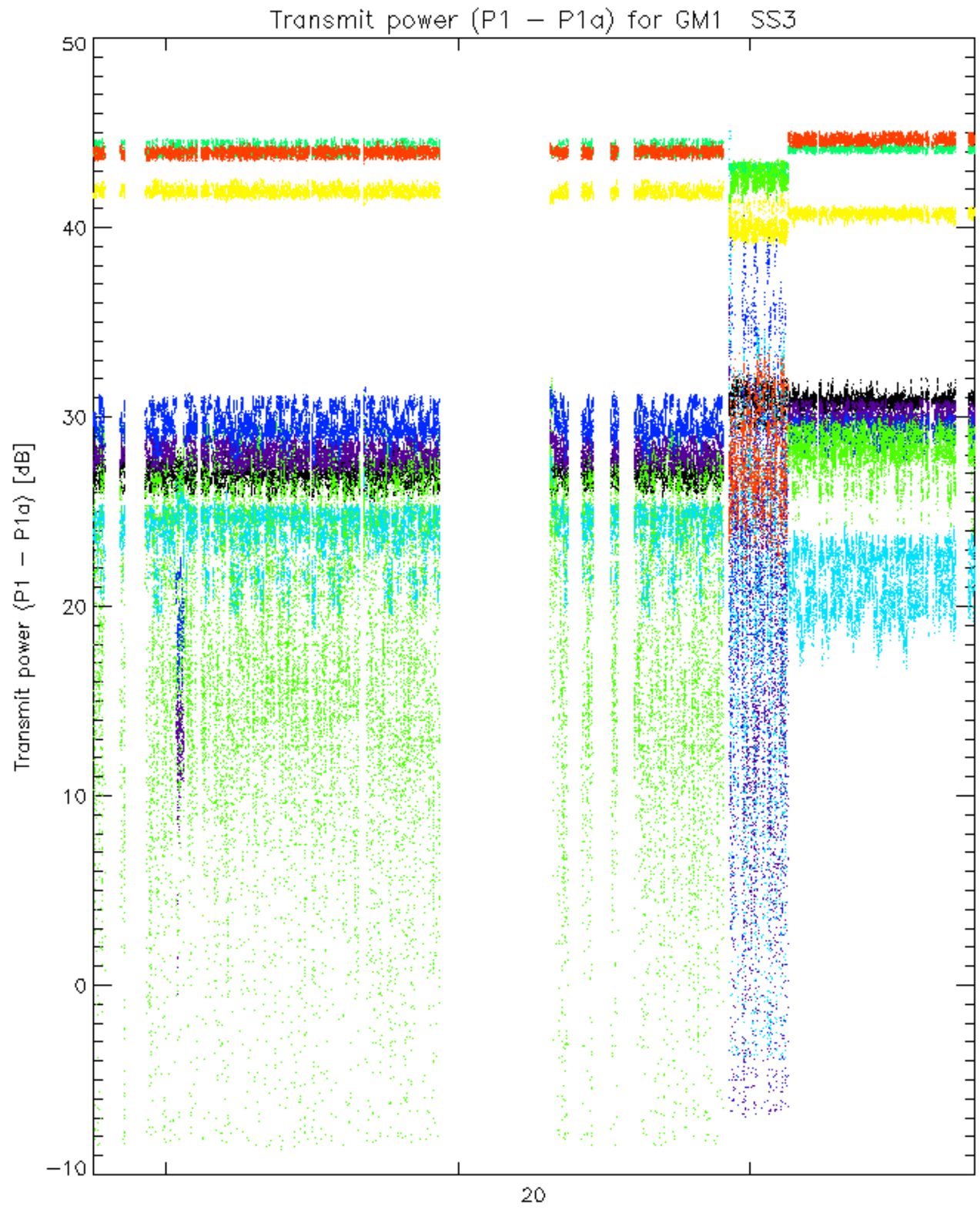

num_missing_lines
700
600
500
400
300
200
100
0
18620
18630
18640
18650
18660
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE

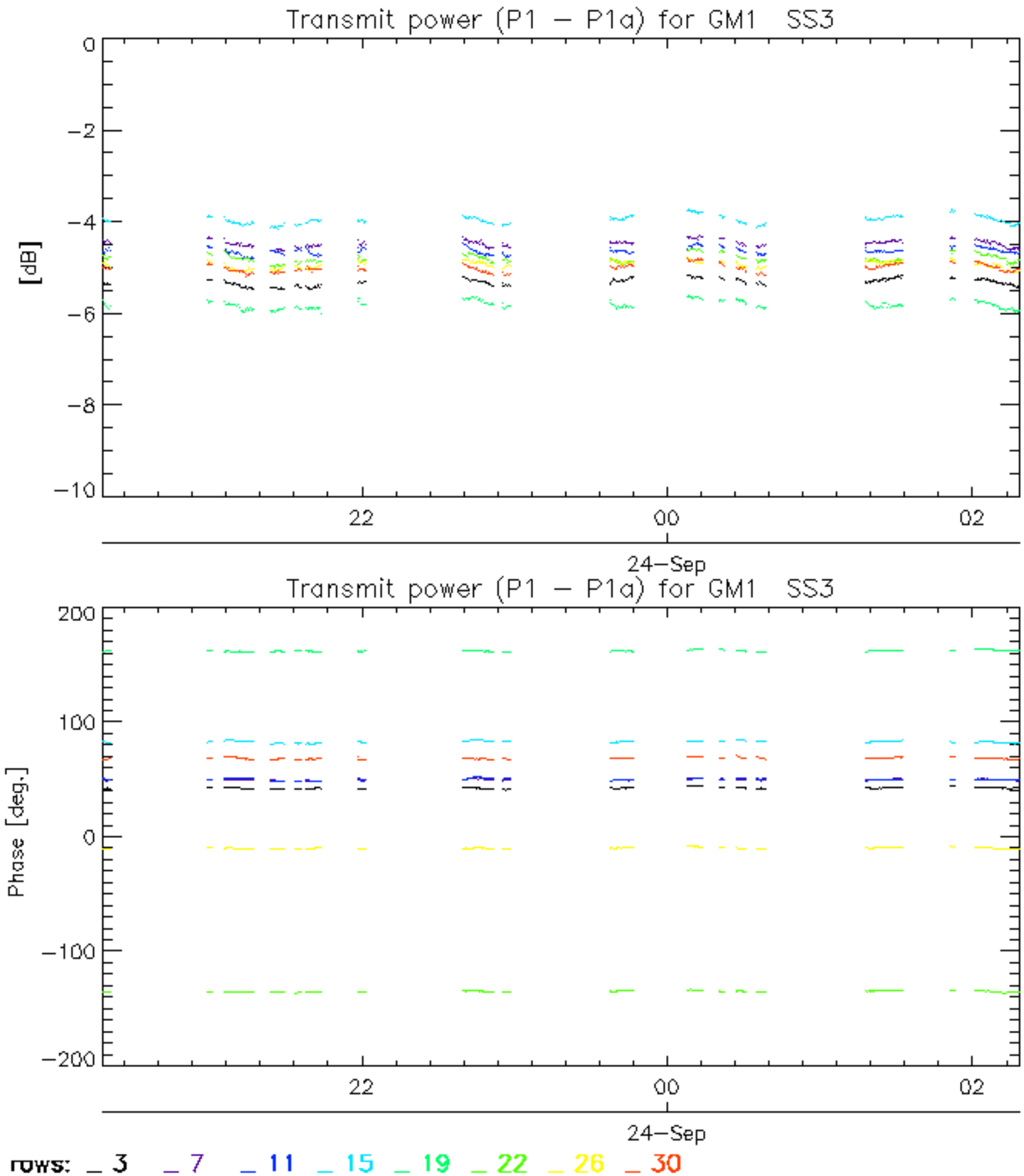

Reference: 2001-02-09 13:50:42 H
Test : 2005-09-22 06:26:51 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

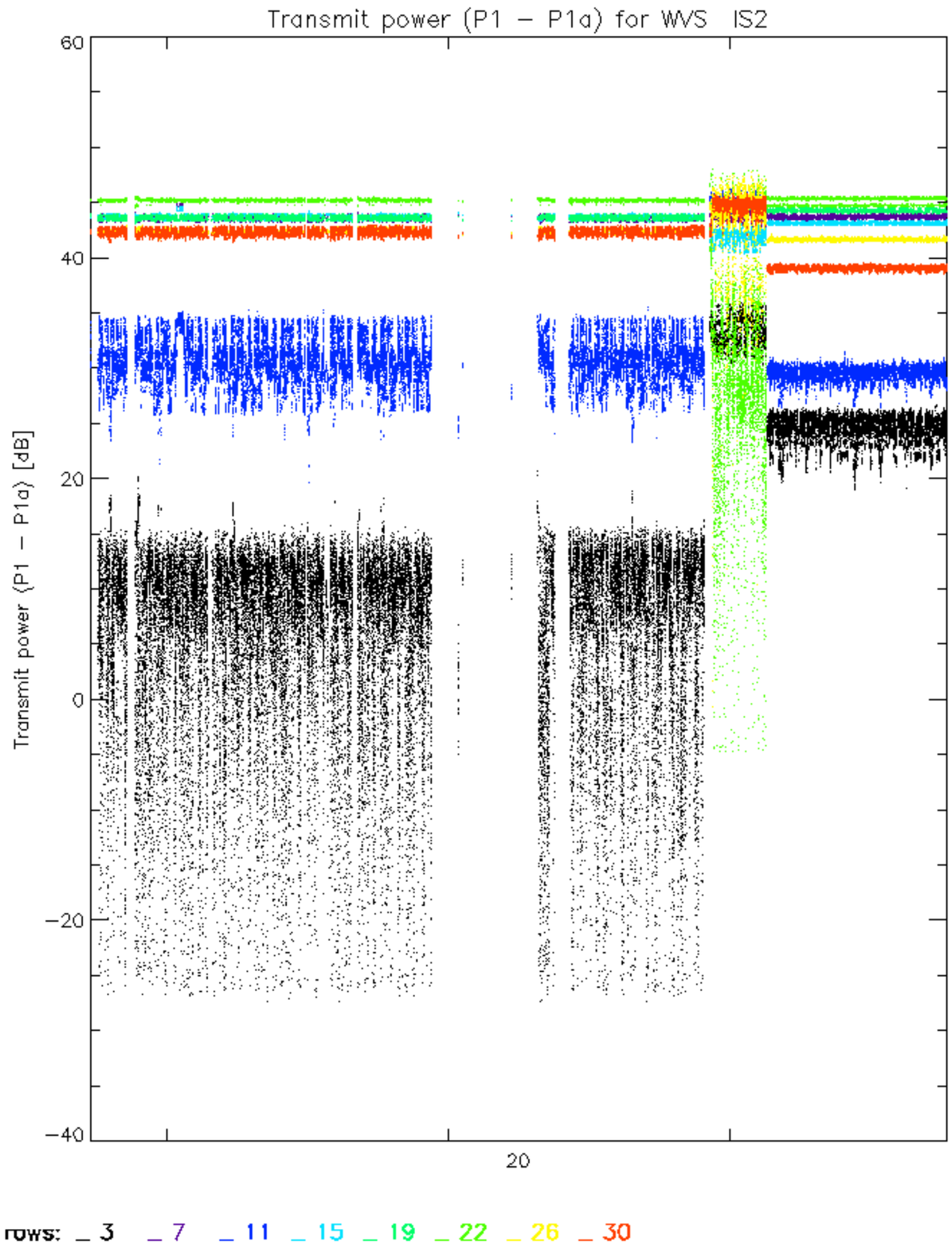

Reference: NULL H TxPhase
Test : 2005-09-22 06:26:51 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

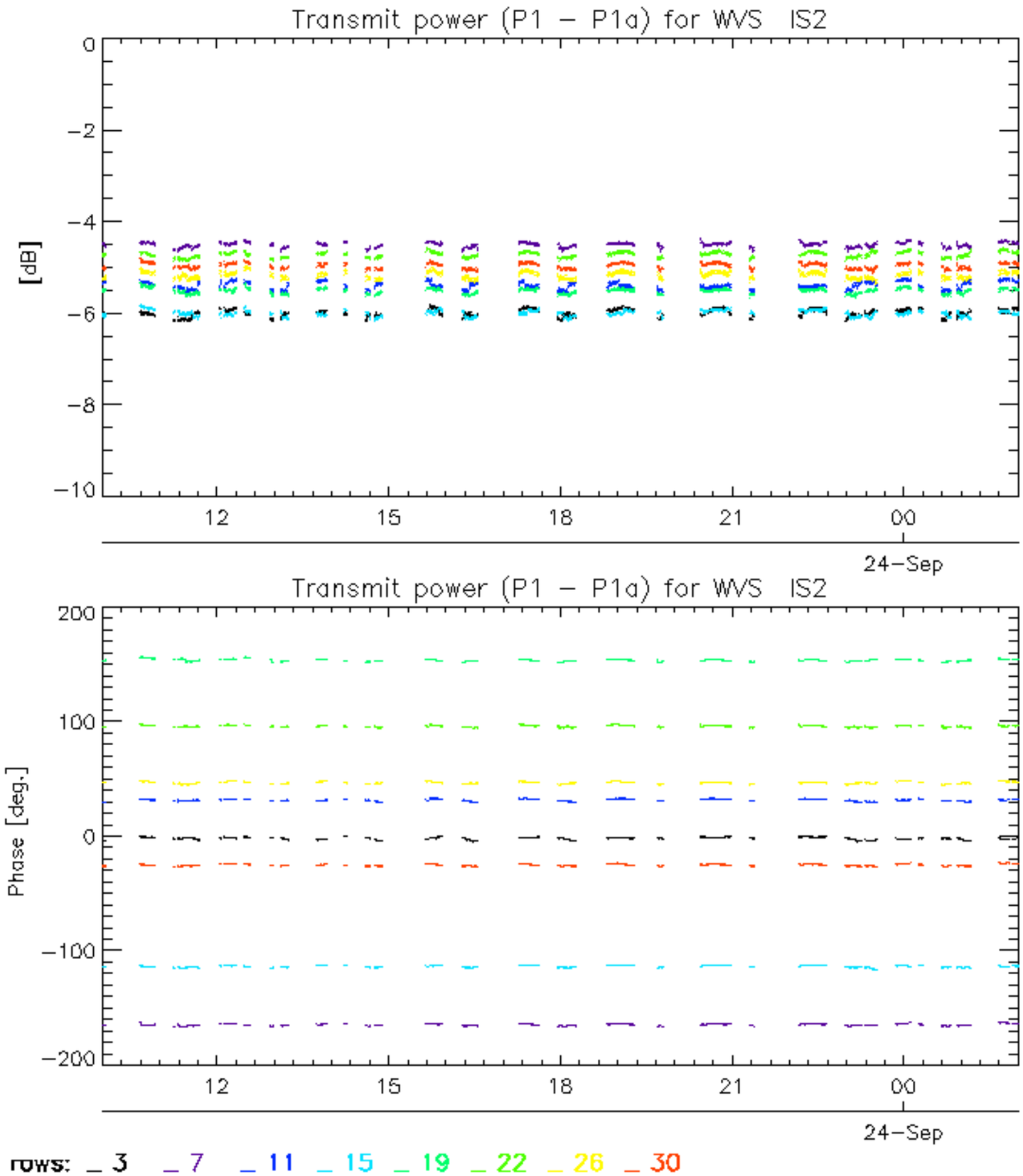

Reference: 2001-02-09 14:08:23 V
TxPhase
Test : 2005-09-23 05:55:14 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32


Reference: NULL V TxPhase
Test : 2005-09-23 05:55:14 V
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
19
20
21
22
23
24
25
26
27
28
29
30
31
32


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


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
22
00
02
24–Sep
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
22
00
02
24–Sep
rows: 3 7 11 15 19 22 26 30


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


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
12
15
18
21
00
24−Sep
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
12
15
18
21
00
24−Sep
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.