PRELIMINARY REPORT OF 050915

last update on Thu Sep 15 14:21:44 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

Preliminary report. Instrument unavailabilities are not yet reported

2.2 - Auxiliary files

Summary of the auxiliary files used from 2005-09-14 00:00:00 to 2005-09-15 14:21:44

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	21	28	5	3	12
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	21	28	5	3	12
ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_000000	21	28	5	3	12
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	21	28	5	3	12

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	37	58	22	18	43
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	37	58	22	18	43
ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_000000	37	58	22	18	43
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	37	58	22	18	43

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

-Preliminary report. MS data is not yet controled

Polarisation	Start Time
V	20050915 100810
H	20050914 222358

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

-Preliminary report.The data is not yet controled

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	-3.308723	0.030347	-0.128721
7	P1	-3.182266	0.010672	-0.044083
11	P1	-4.741959	0.033398	-0.074956
15	P1	-5.639692	0.049084	-0.086182
19	P1	-3.784190	0.065598	0.200691
22	P1	-4.623192	0.012731	-0.032504
26	P1	-4.835169	0.025556	-0.052328
30	P1	-7.222688	0.112641	0.214834
3	P1	-15.659028	0.671548	-0.668015
7	P1	-15.800175	1.831201	-1.220205
11	P1	-21.970945	1.181617	-0.900083
15	P1	-11.627829	3.806079	-1.708558
19	P1	-14.493743	0.094152	0.187565
22	P1	-15.930877	8.733503	-2.442877
26	P1	-17.603586	6.449015	-2.135306
30	P1	-18.123175	2.561225	-1.495907

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.713614	0.089335	0.074708
7	P2	-21.877497	0.135556	-0.097203
11	P2	-13.493941	0.474957	-0.387979
15	P2	-7.051486	0.103777	-0.082019
19	P2	-9.541667	0.145411	0.203432
22	P2	-16.803432	0.104661	-0.016646
26	P2	-16.501482	0.103976	0.000209
30	P2	-18.830664	0.120997	-0.165135

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.156289	0.004080	-0.010194
7	P3	-8.156289	0.004080	-0.010194
11	P3	-8.156289	0.004080	-0.010194
15	P3	-8.156289	0.004080	-0.010194
19	P3	-8.156289	0.004080	-0.010194
22	P3	-8.156289	0.004080	-0.010194
26	P3	-8.156294	0.004080	-0.010179
30	P3	-8.156294	0.004080	-0.010179

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	-2.759559	0.025993	0.107052
7	P1	-2.975086	0.051581	-0.106283
11	P1	-4.041455	0.028627	-0.012917
15	P1	-3.634790	0.025901	-0.037720
19	P1	-3.608995	0.038310	0.147830
22	P1	-5.676516	0.095528	0.211574
26	P1	-7.283225	0.254928	0.466790
30	P1	-6.229432	0.198526	0.355945
3	P1	-11.025462	0.208182	-0.440501
7	P1	-10.921945	7.276340	-2.470748
11	P1	-13.187325	10.687007	-3.098144
15	P1	-12.182605	11.210307	-3.083501
19	P1	-15.419548	0.108675	0.248670
22	P1	-25.355402	2.014700	0.304522

26	P1	-15.386259	2.407026	-1.229796
30	P1	-20.139278	1.522464	-0.281358

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.414024	0.049611	0.105726
7	P2	-21.995462	0.068129	-0.111294
11	P2	-9.502144	0.174466	-0.152345
15	P2	-5.071209	0.036957	0.030742
19	P2	-6.809745	0.083545	0.188839
22	P2	-7.019802	0.043246	0.009521
26	P2	-23.947977	0.034288	0.003584
30	P2	-21.940392	0.052137	-0.084821

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.000658	0.004147	-0.007161
7	P3	-8.000651	0.004152	-0.007046
11	P3	-8.000582	0.004140	-0.006930
15	P3	-8.000562	0.004156	-0.006867
19	P3	-8.000720	0.004143	-0.007302
22	P3	-8.000481	0.004143	-0.007030
26	P3	-8.000530	0.004154	-0.007633
30	P3	-8.000473	0.004150	-0.007320

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

☒

4.3.2 - Evolution for GM1

☒

5 - RAW data statistics

-Preliminary report. The data is not yet controled

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000430567
	stdev	2.34111e-07
MEAN Q	mean	0.000452995
	stdev	2.41794e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.125912
	stdev	0.00106381
STDEV Q	mean	0.126167
	stdev	0.00107404

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005091[345]
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_1PNPDE20050914_225857_000003002040_00431_18521_8744.N1	0	65
ASA_WSM_1PNPDE20050915_012427_000004282040_00432_18522_8770.N1	0	16

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

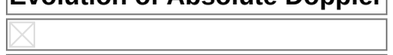
Evolution of unbiased Doppler error (Real - Expected)

Acsending

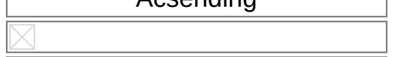
Descending

7.5 - Absolute Doppler for GM1

Evolution of Absolute Doppler



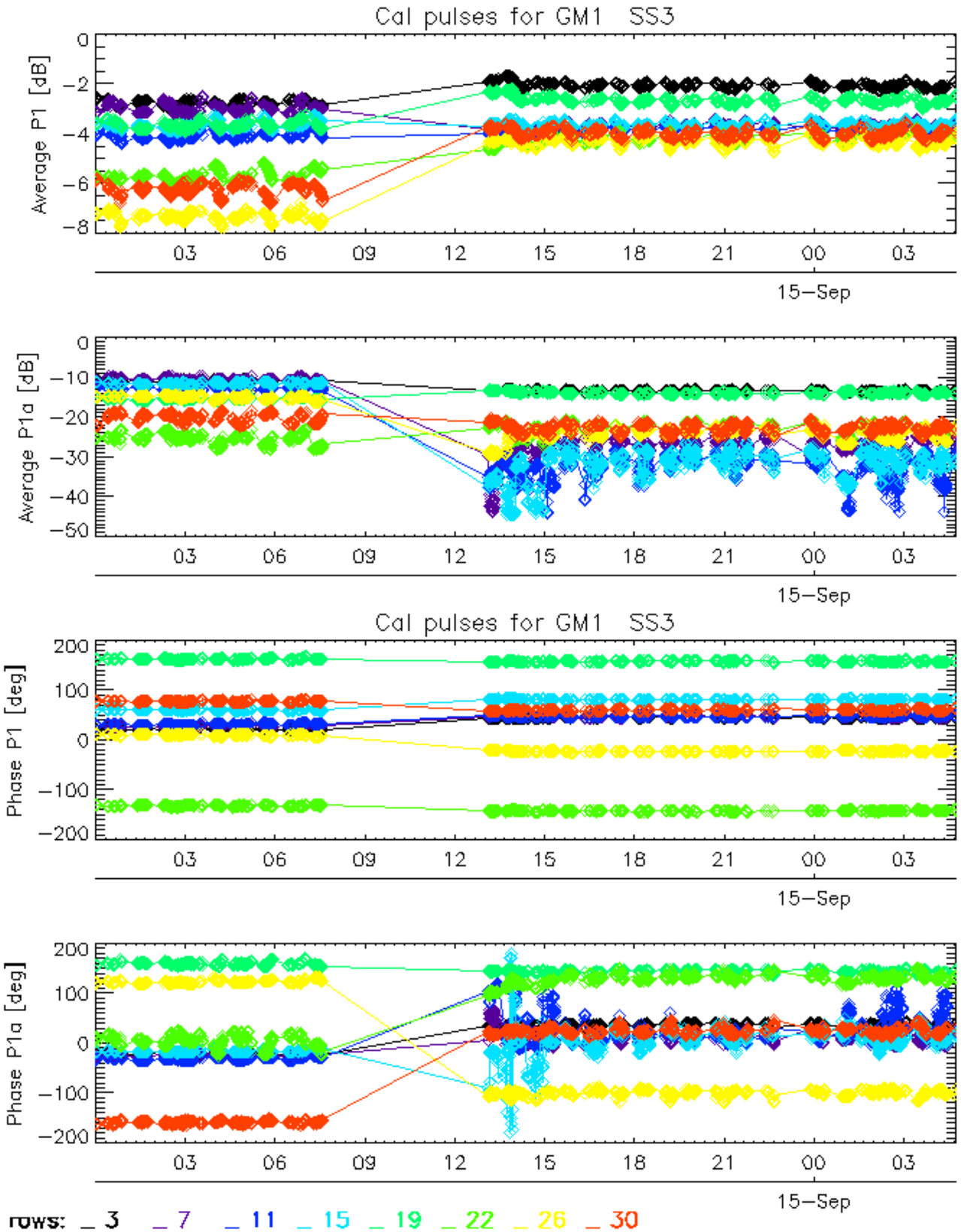
Acsending

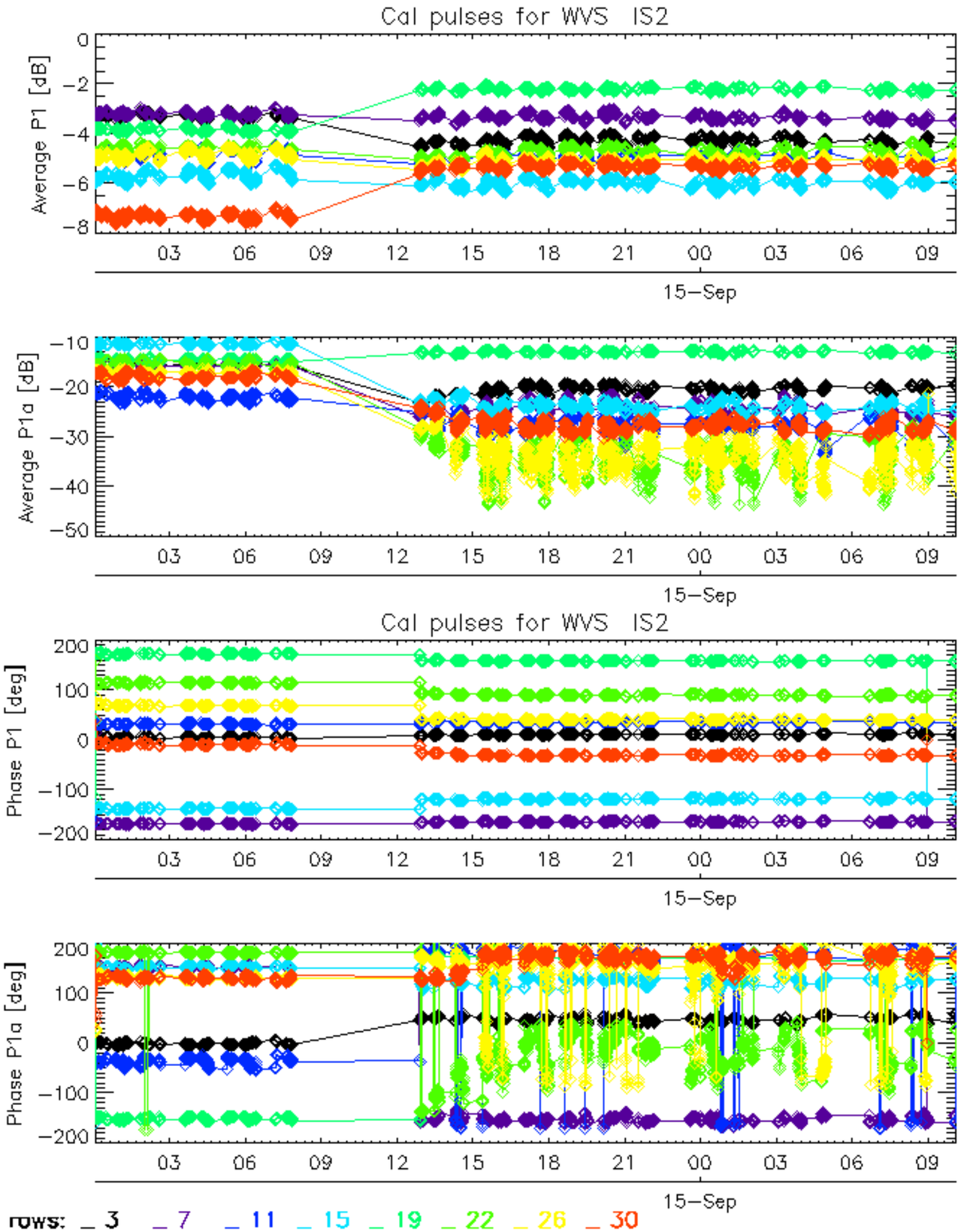


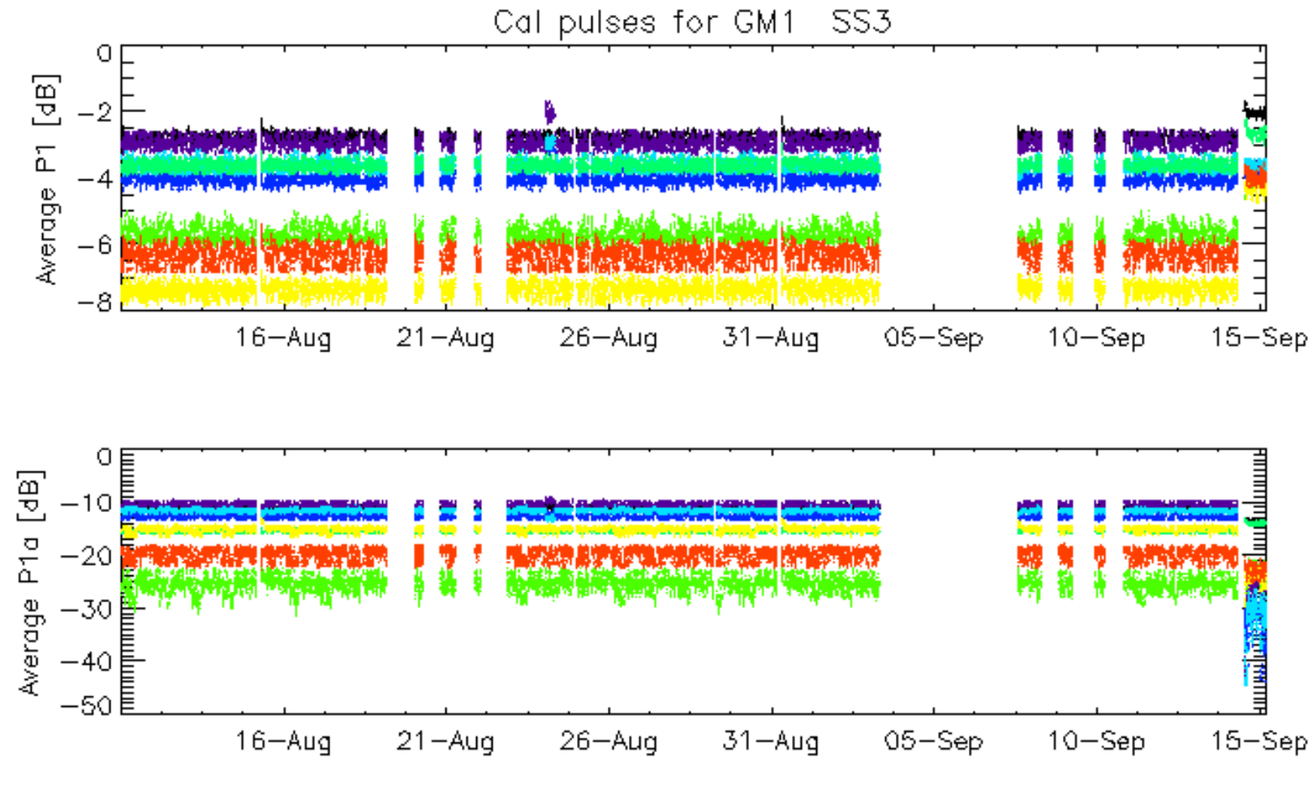
Descending

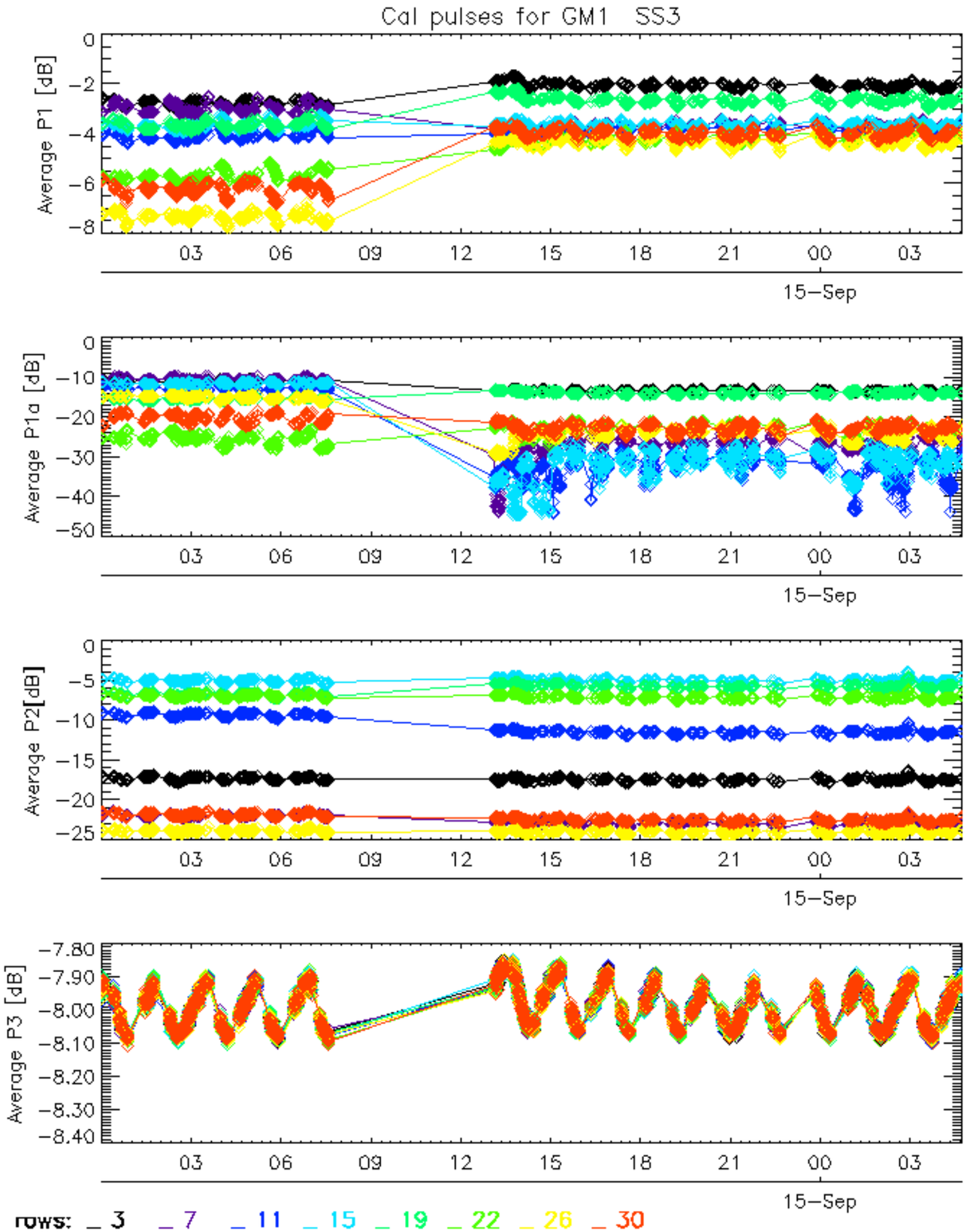
7.6 - Doppler evolution versus ANX for GM1

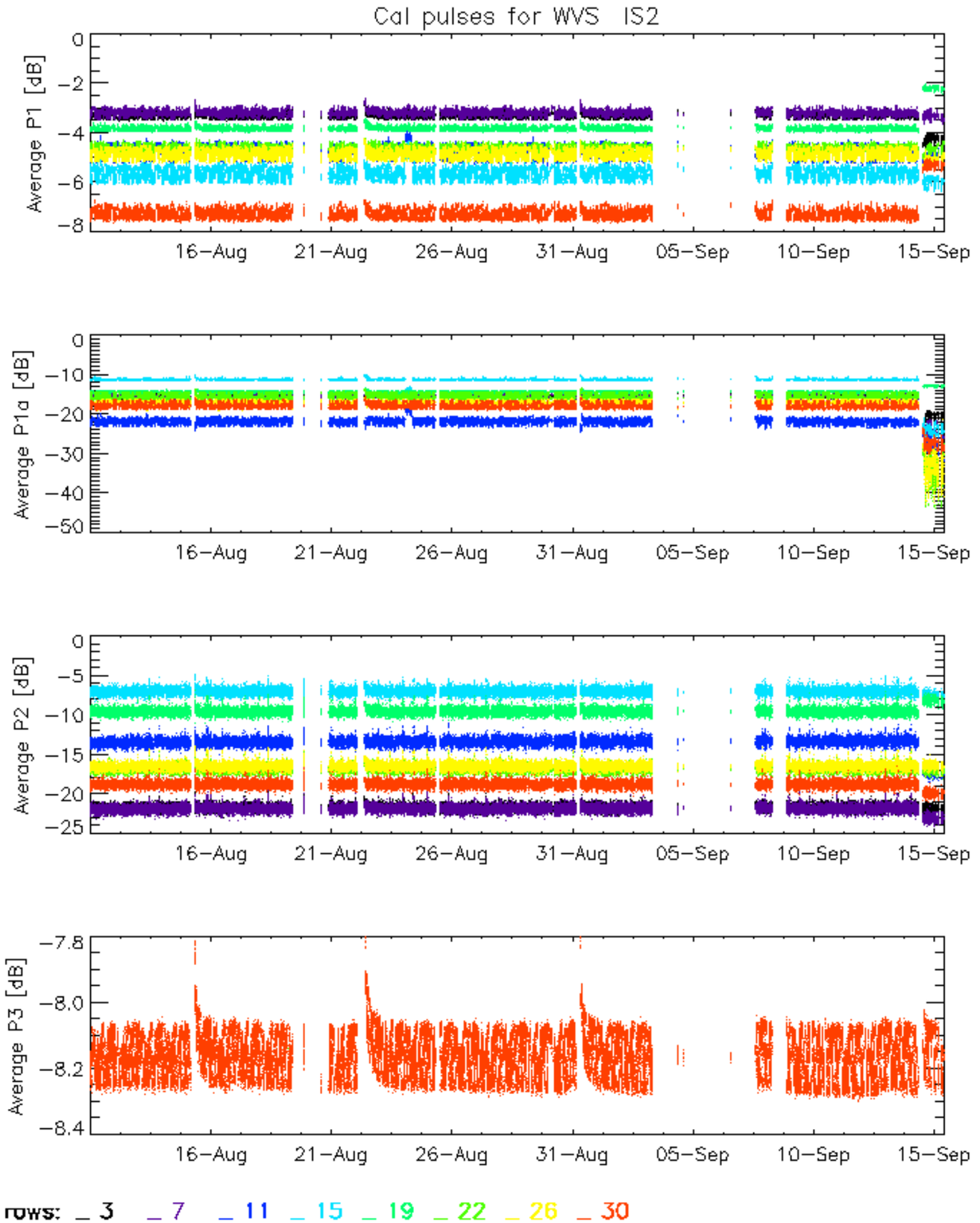
Evolution Doppler error versus ANX

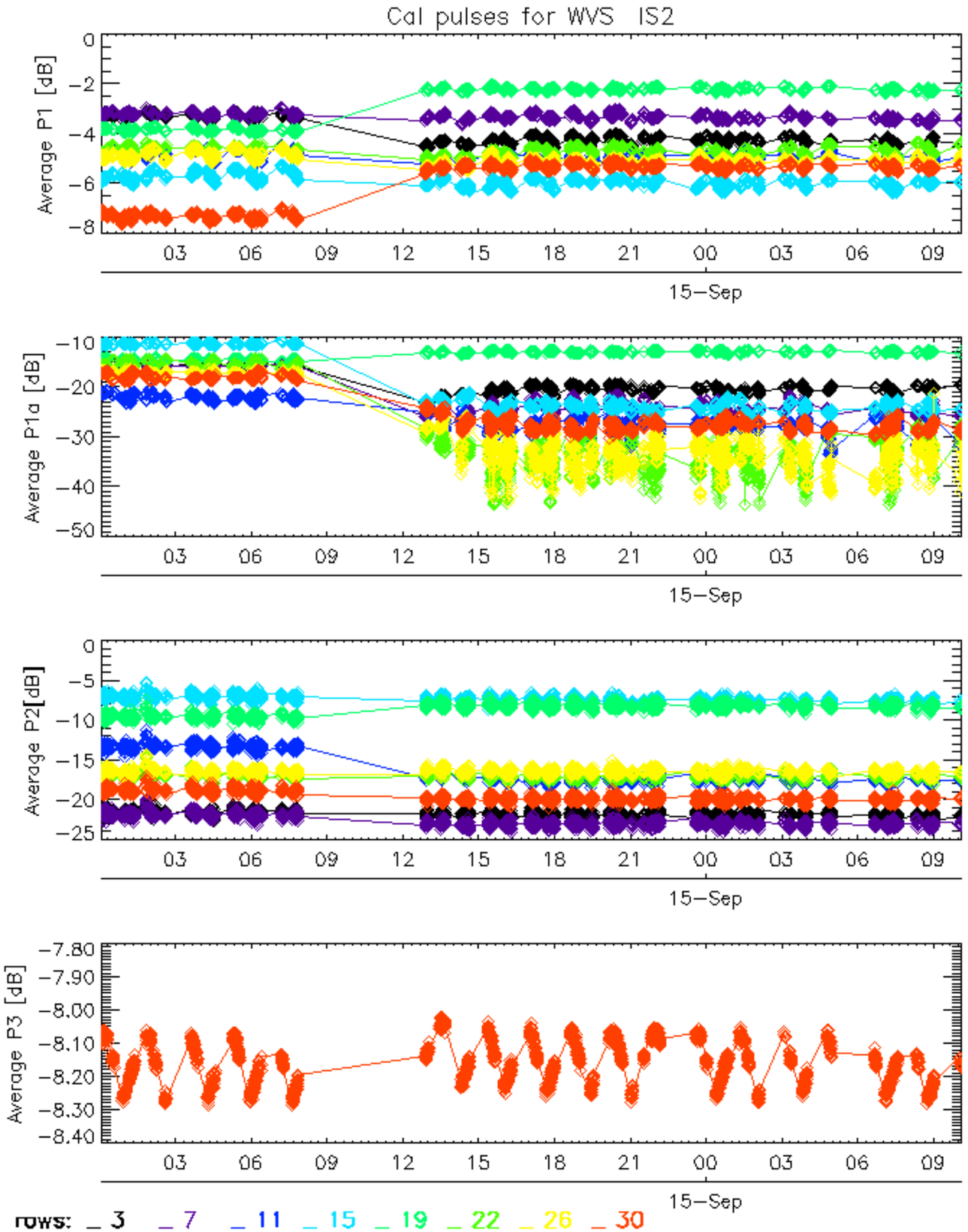

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
03
06
09
12
15
18
21
00
03
15−Sep
Average P1a [dB]
0
−10
−20
−30
−40
−50
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
Phase P1a [deg]
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
03
06
09
12
15
18
21
00
03
06
09
15−Sep
Average P1a [dB]
−10
−20
−30
−40
−50
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
Phase P1a [deg]
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
16−Aug
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

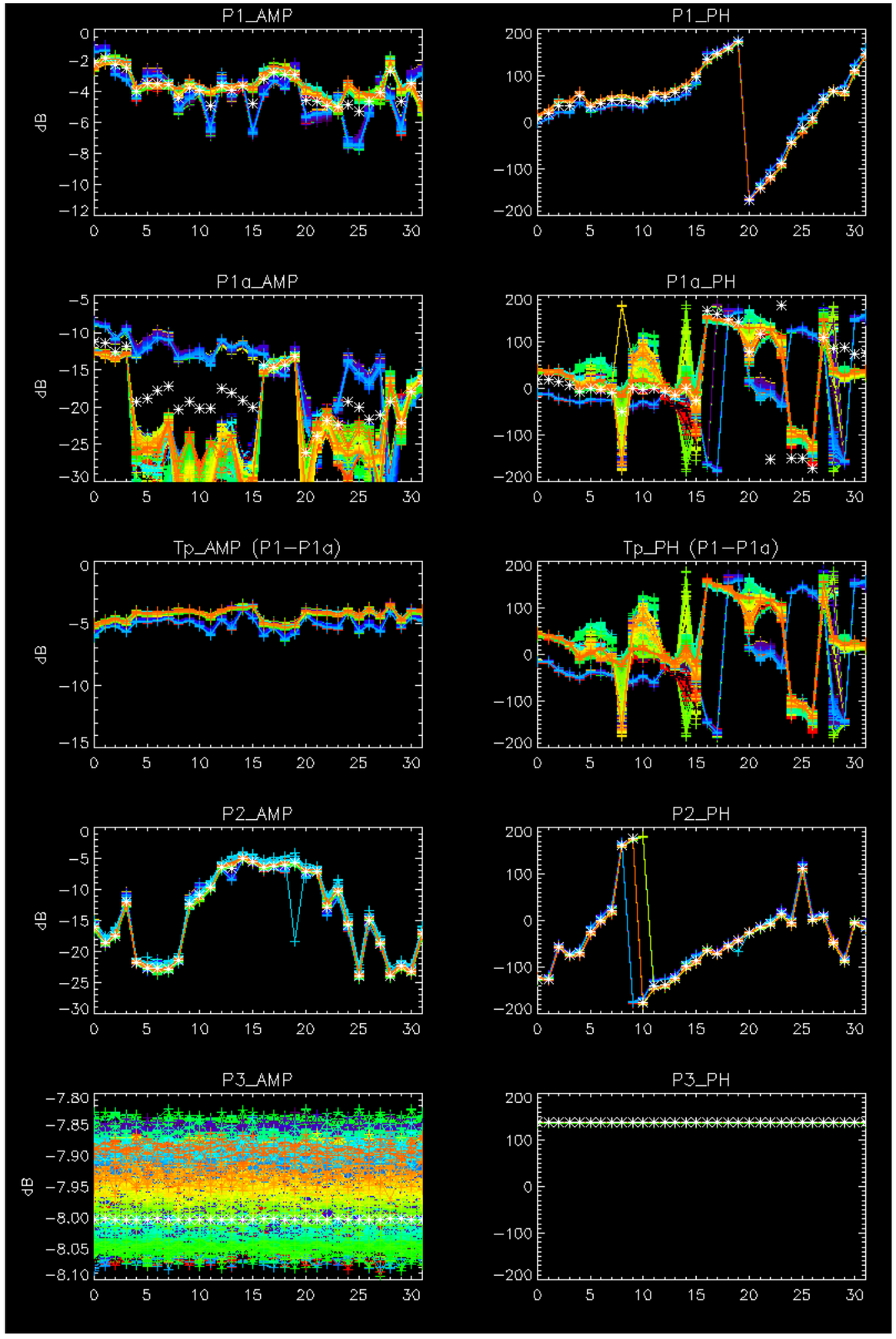

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
03
06
09
12
15
18
21
00
03
15−Sep
Average P1a [dB]
0
−10
−20
−30
−40
−50
Average P2[dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
rows: 3 7 11 15 19 22 26 30

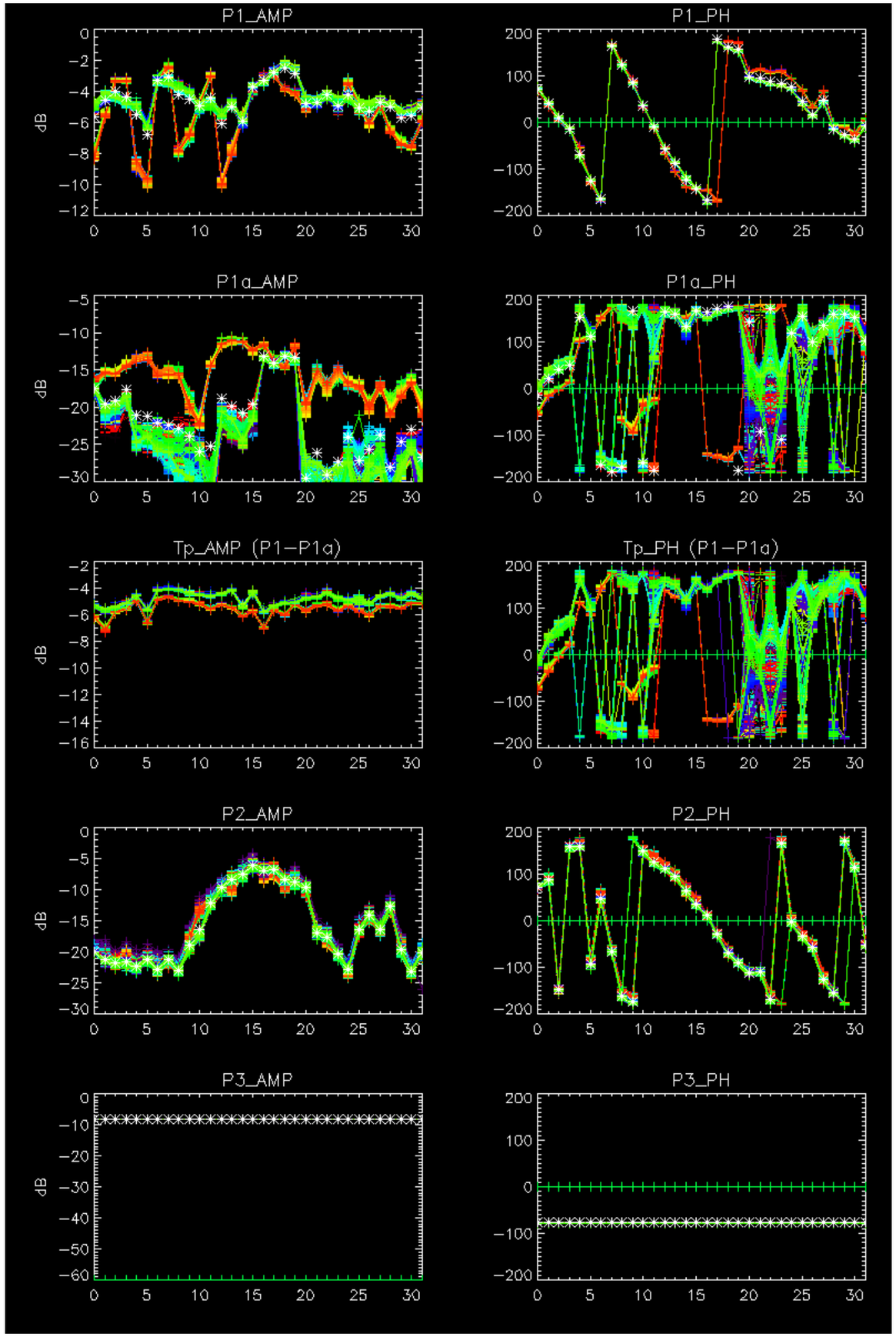

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
16−Aug
21−Aug
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
Average P1a [dB]
0
−10
−20
−30
−40
−50
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
03
06
09
12
15
18
21
00
03
06
09
15−Sep
Average P1a [dB]
−10
−20
−30
−40
−50
Average P2[dB]
−5
−10
−15
−20
−25
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 on available browse products

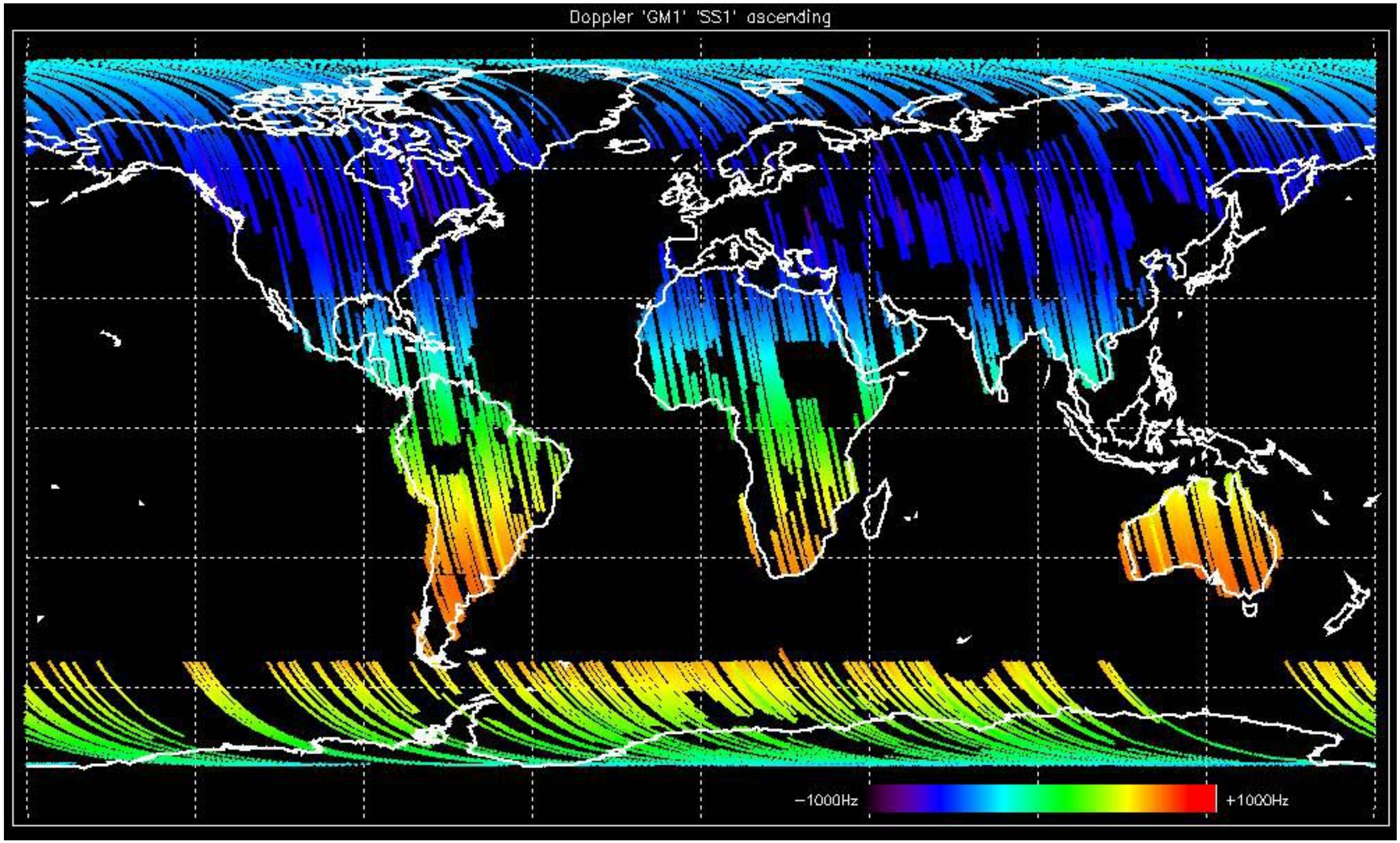
-Preliminary report.The data is not yet controled

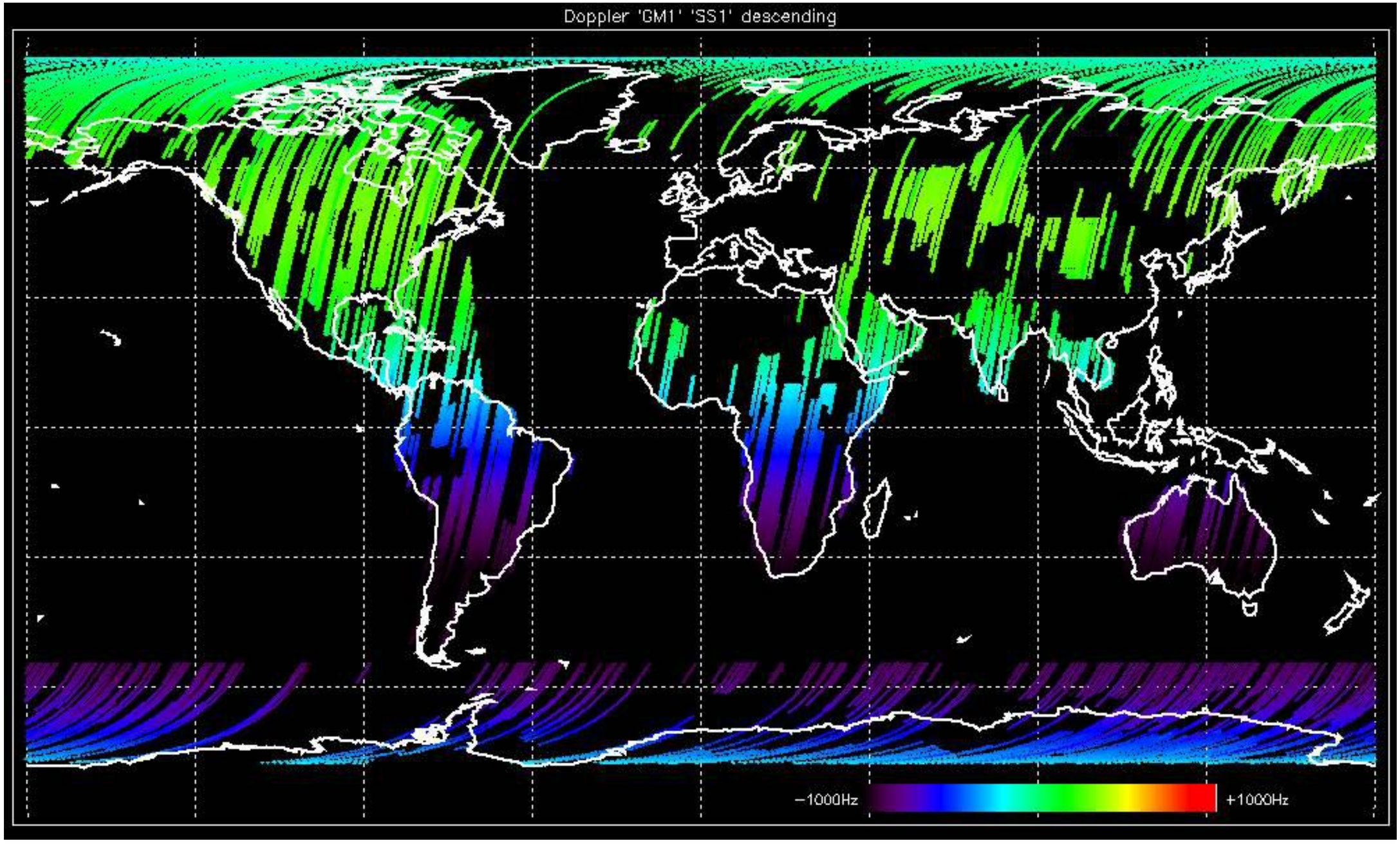

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

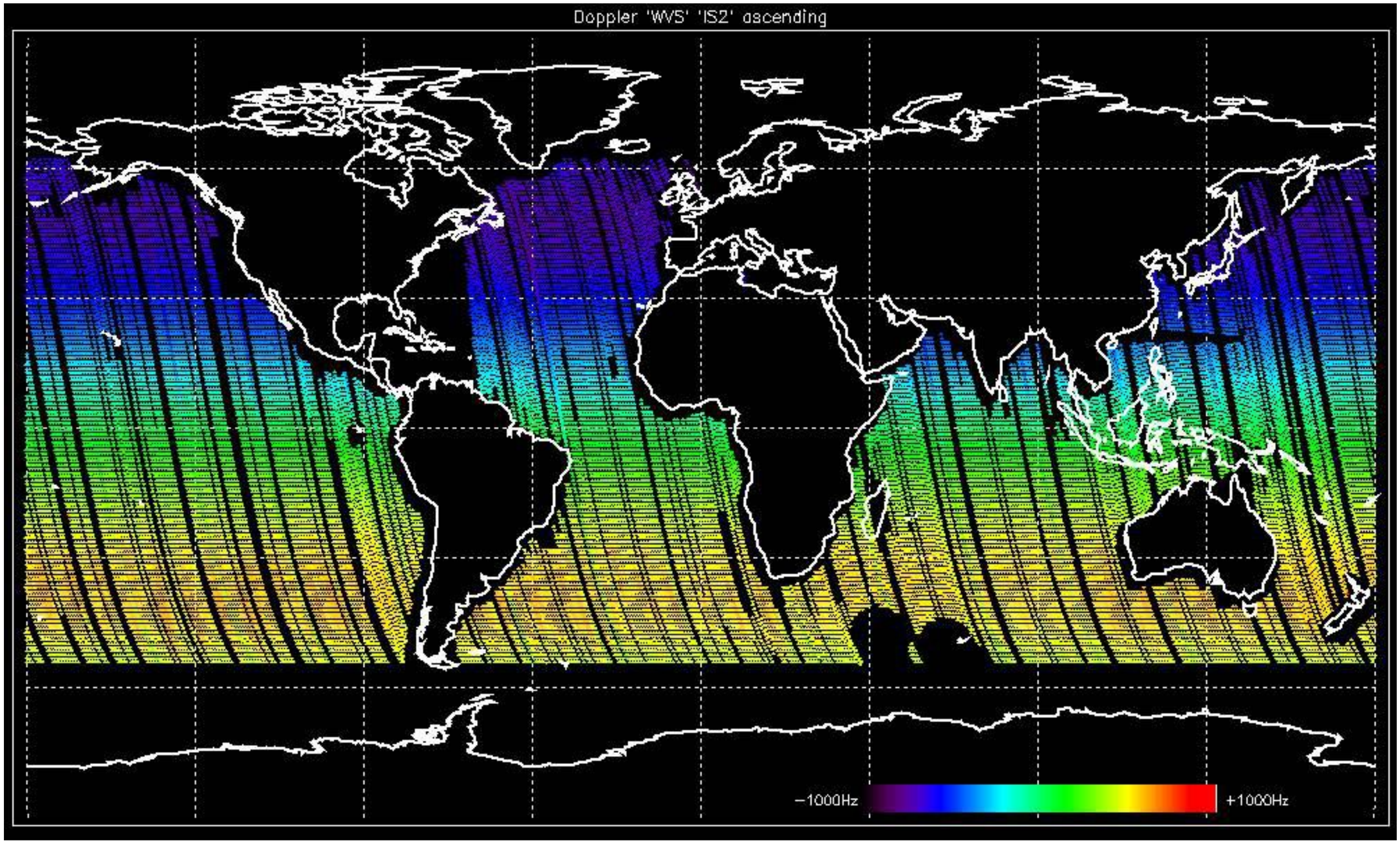

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

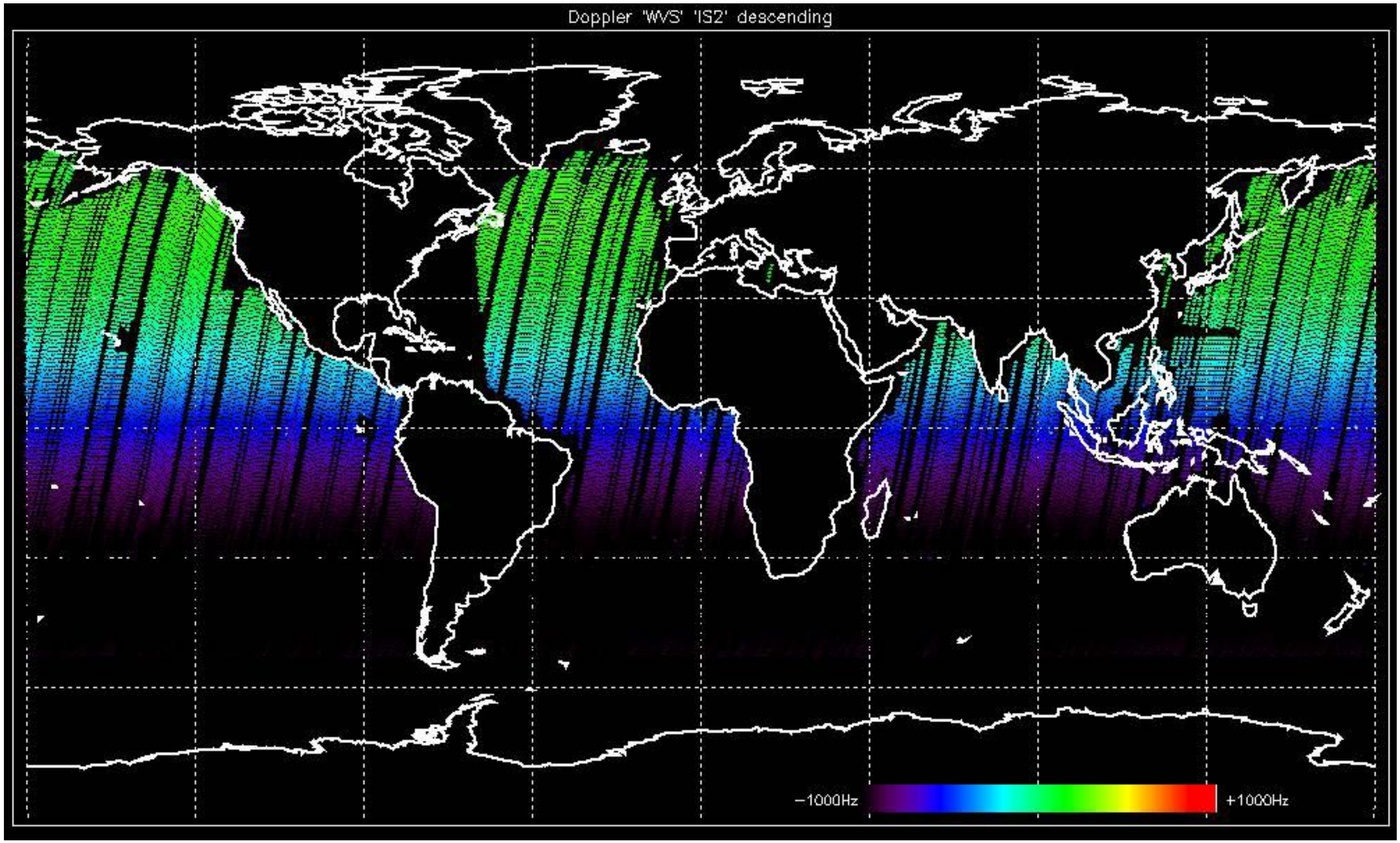
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

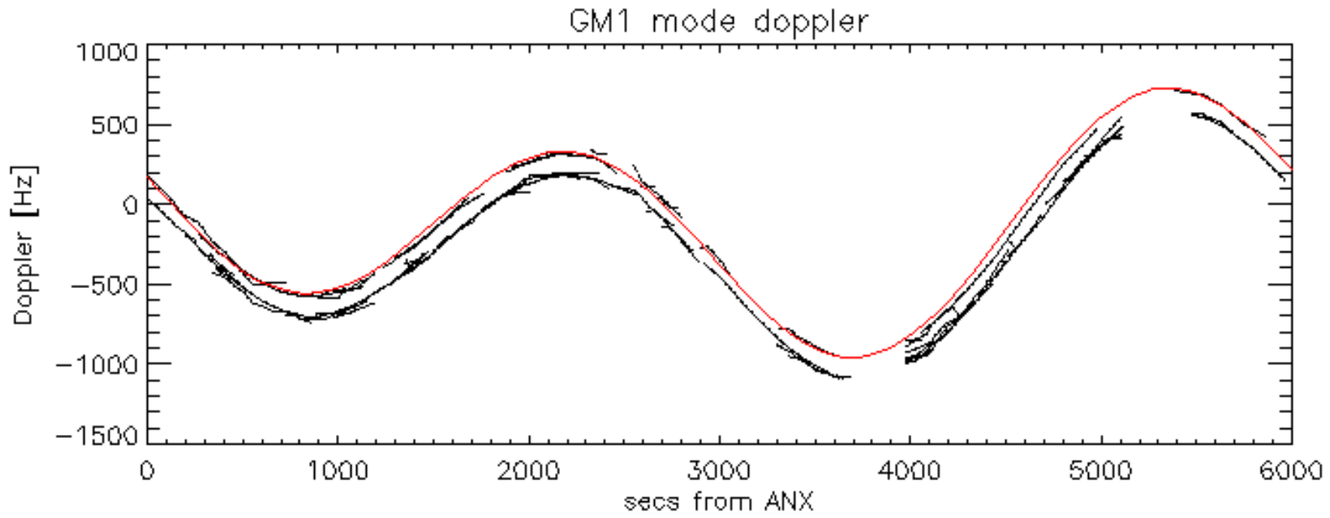
Preliminary report.The data is not yet controled

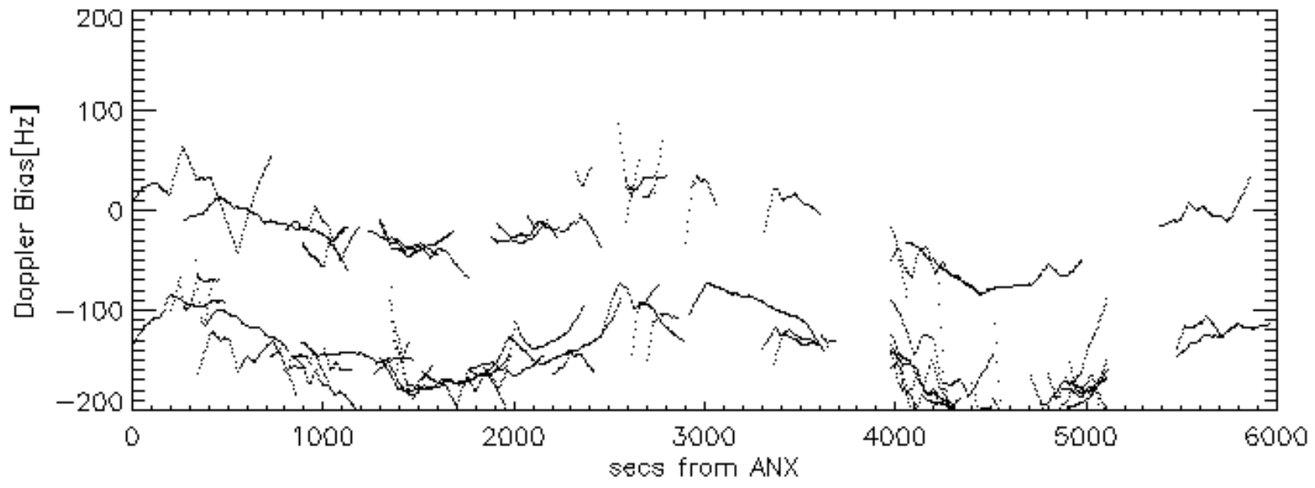

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

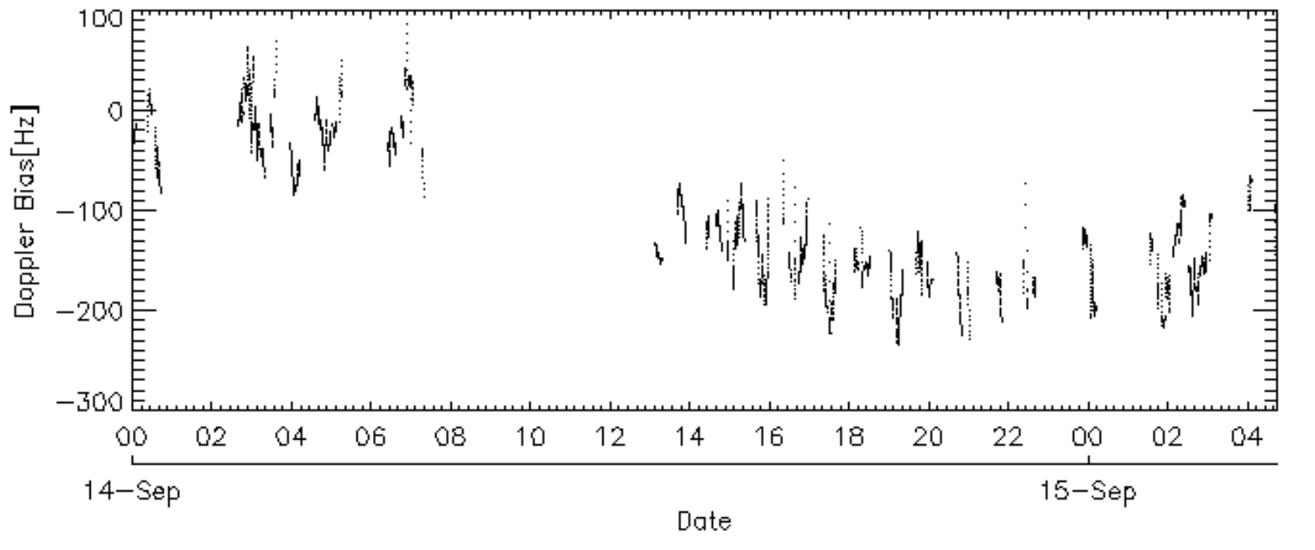

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

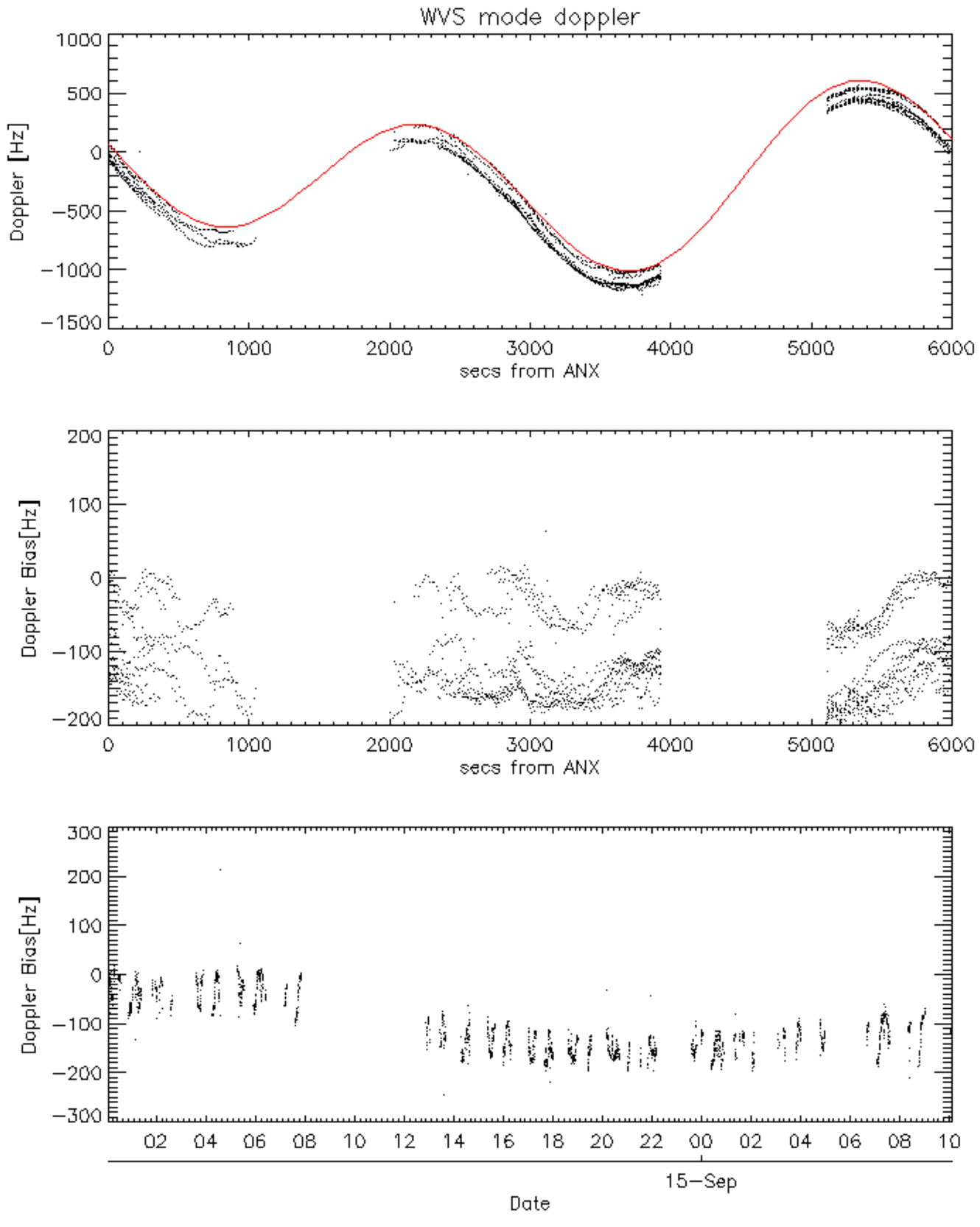

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

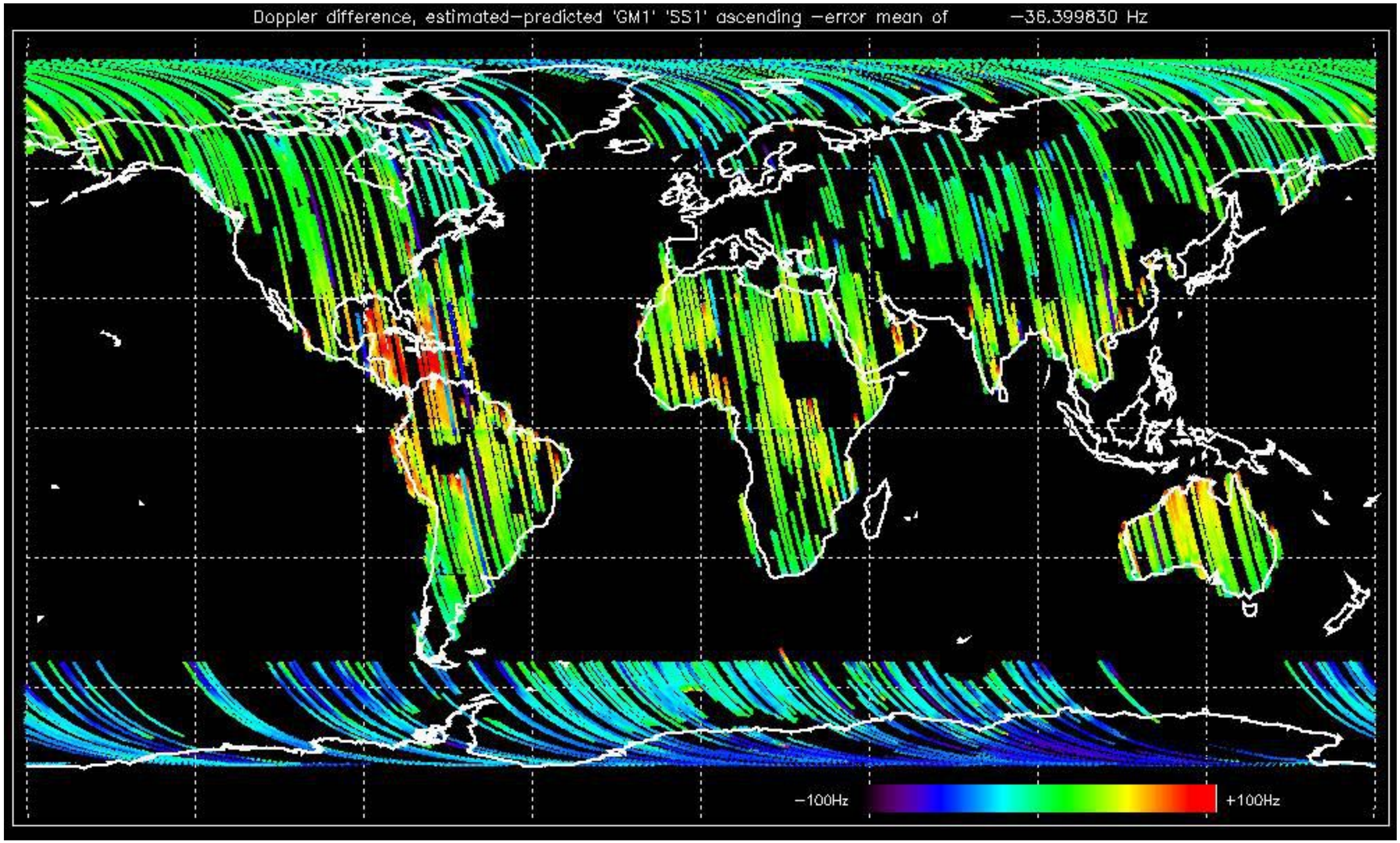

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

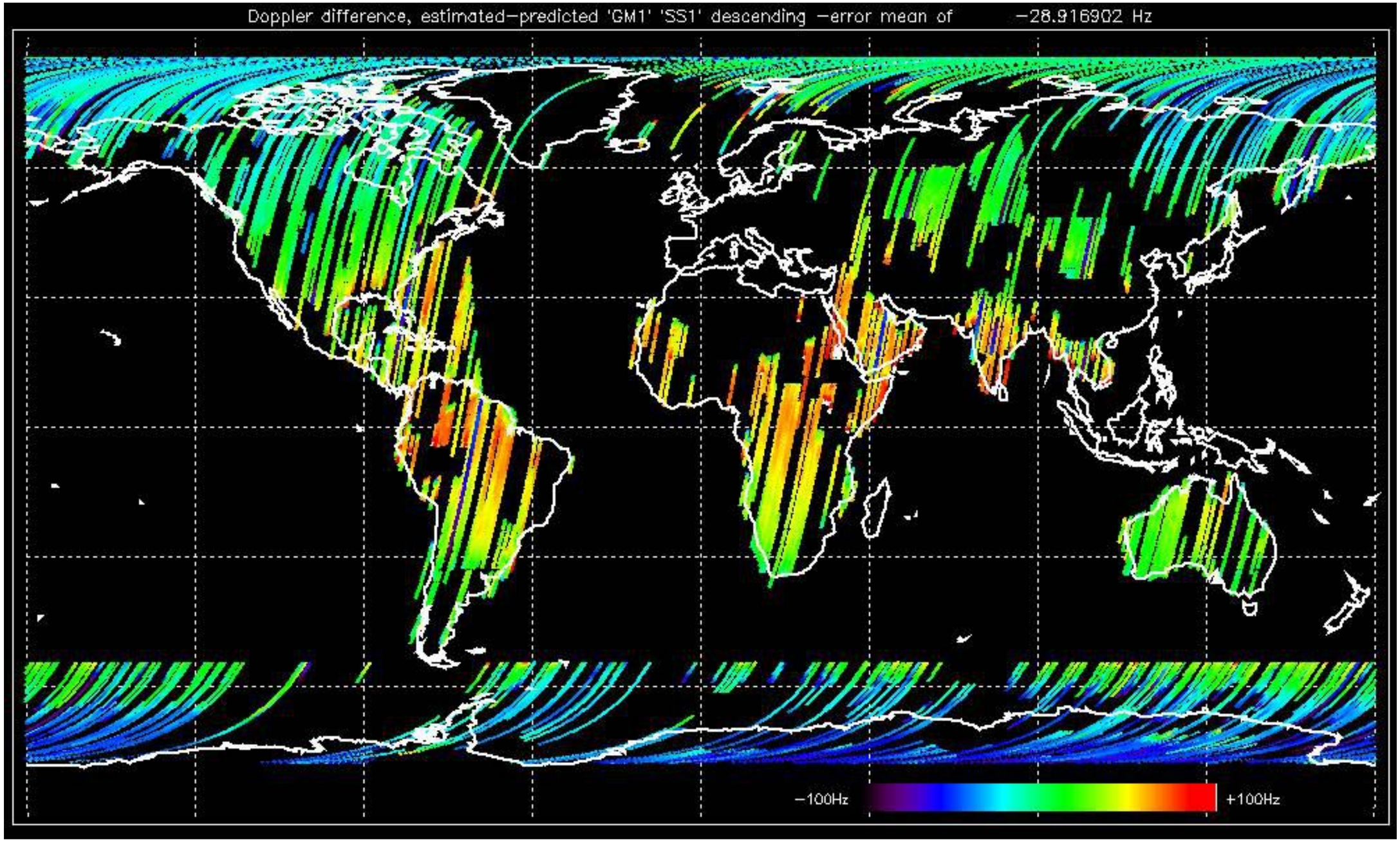

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

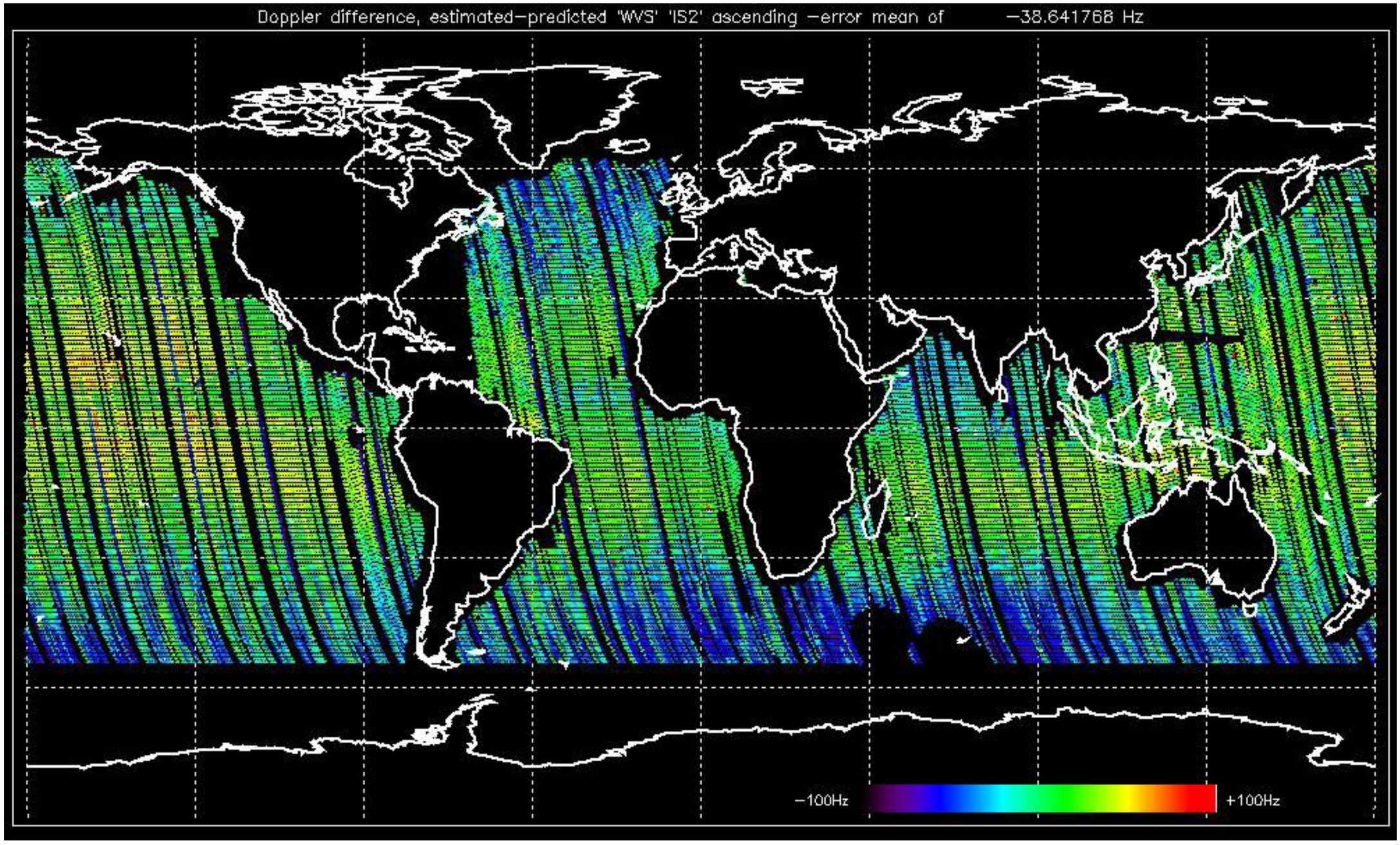

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

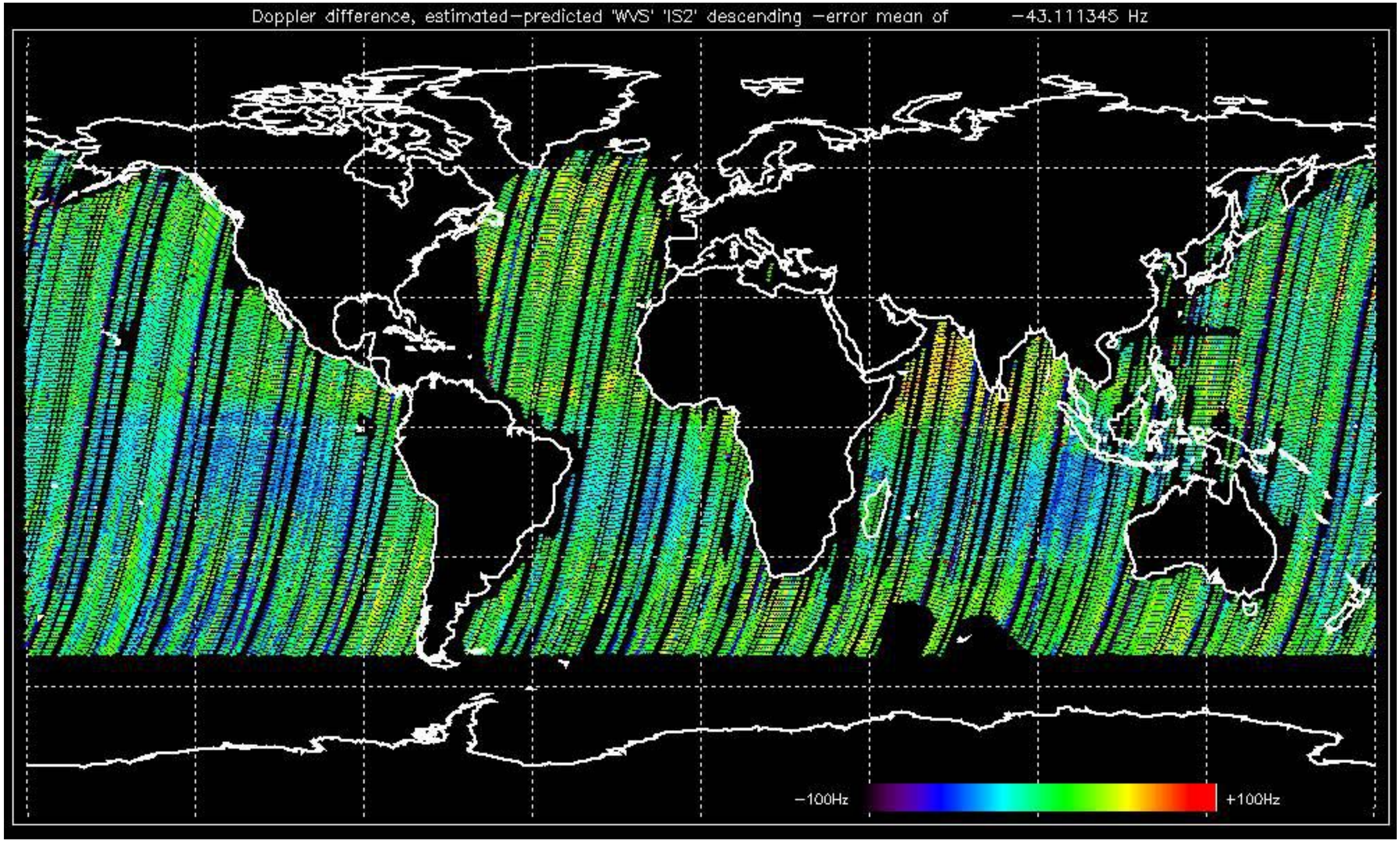

Doppler Bias[Hz]
100
0
−100
−200
−300
00
02
04
06
08
10
12
14
16
18
20
22
00
02
04
14−Sep
15−Sep
Date


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
−300
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
10
15−Sep
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −36.399830 Hz
−100Hz
+100Hz

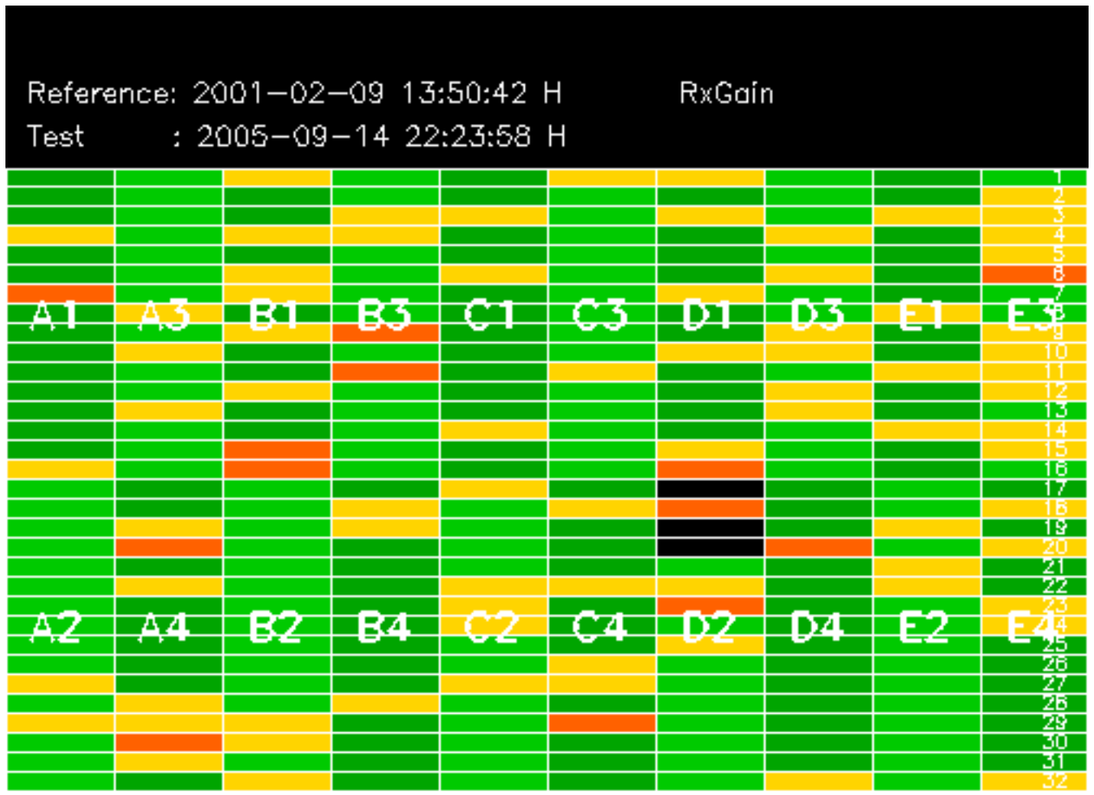

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -28.916902 Hz
-100Hz
+100Hz

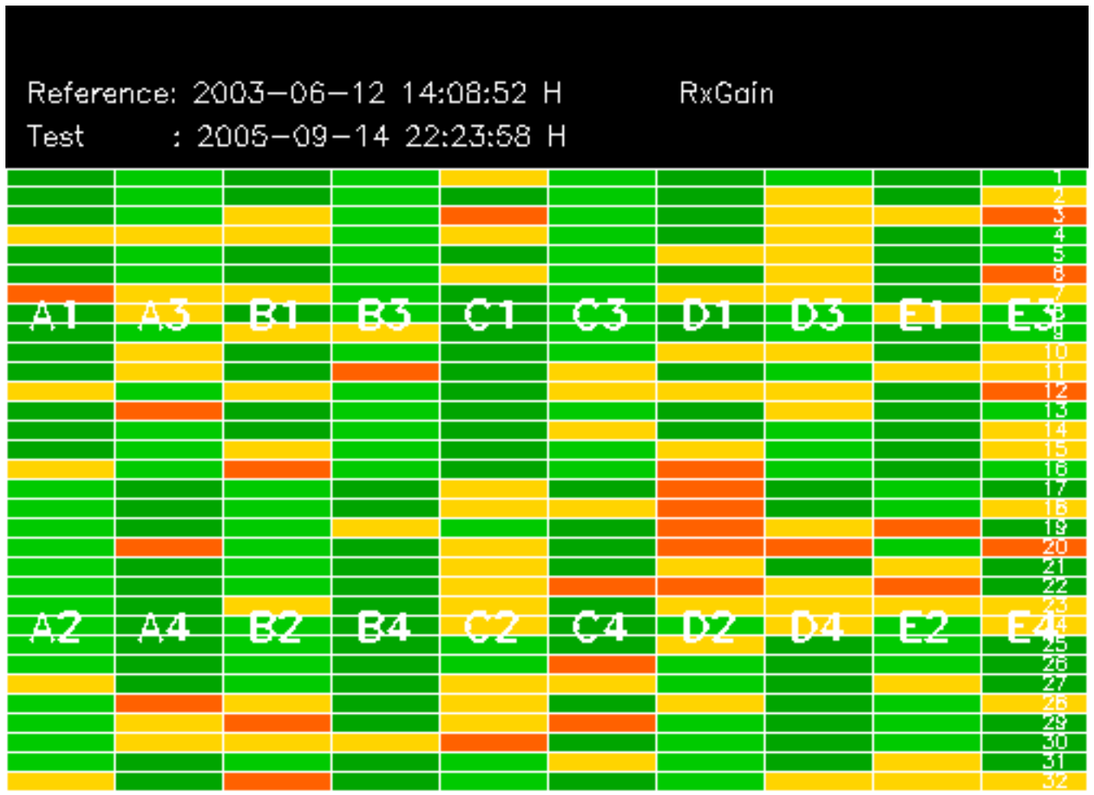

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −38.641768 Hz
−100Hz
+100Hz

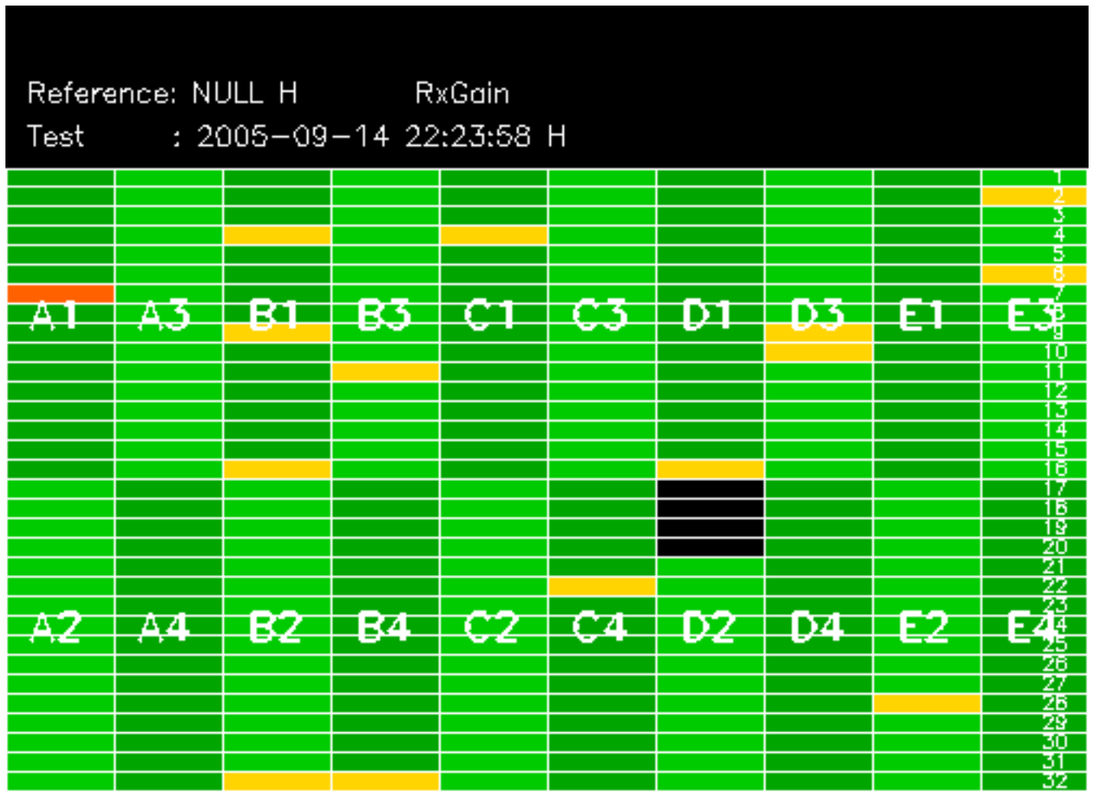

Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −43.111345 Hz
−100Hz
+100Hz

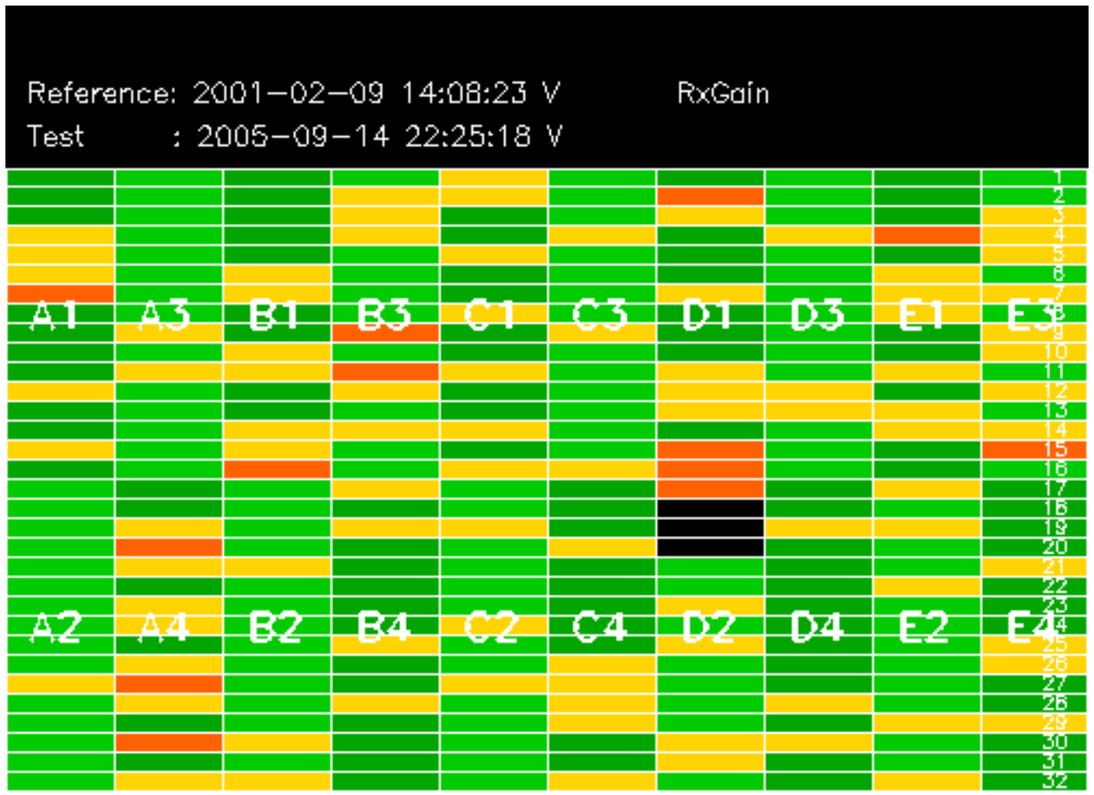
-Preliminary report. MS data is not yet controled

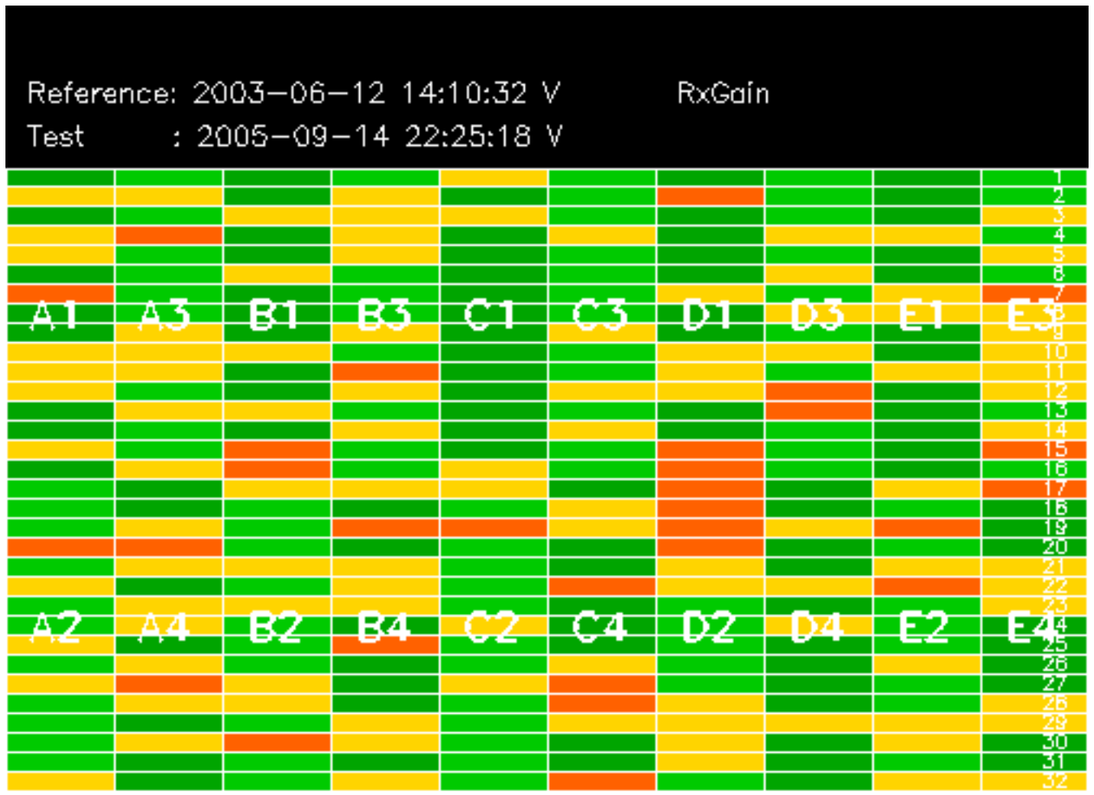
-Preliminary report. The data is not yet controled

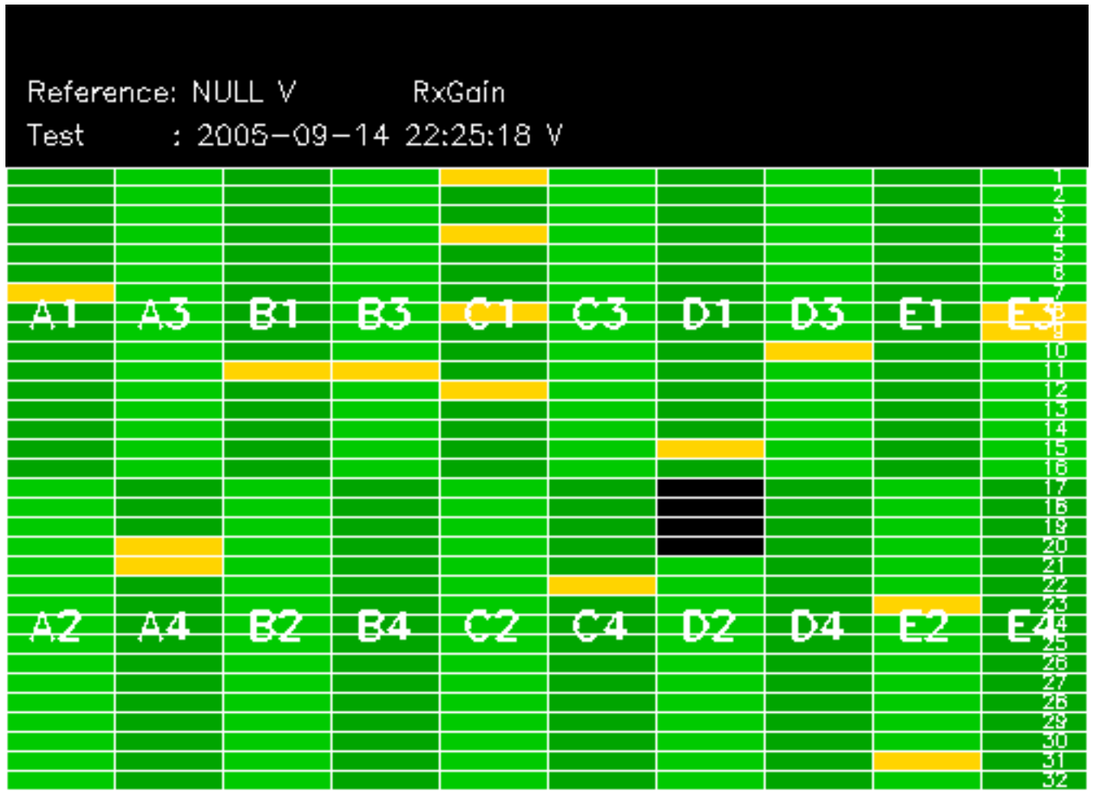

Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2005-09-14 22:23:58 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

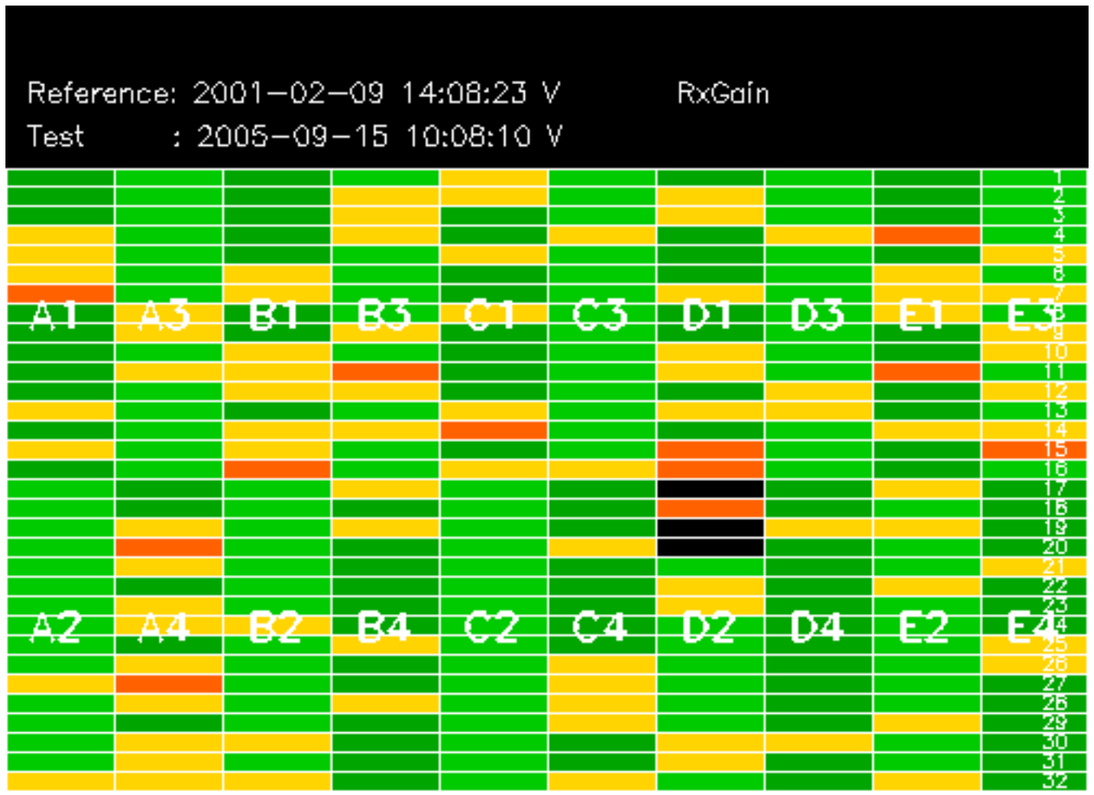

Reference: 2003-06-12 14:08:52 H
Test : 2005-09-14 22:23:58 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: NULL H RxGain
Test : 2005-09-14 22:23:58 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
RxGain
Test : 2005-09-14 22:25:18 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 : 2005-09-14 22:25:18 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: NULL V RxGain
Test : 2005-09-14 22:25:18 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 14:08:23 V
RxGain
Test : 2005-09-15 10:08:10 V
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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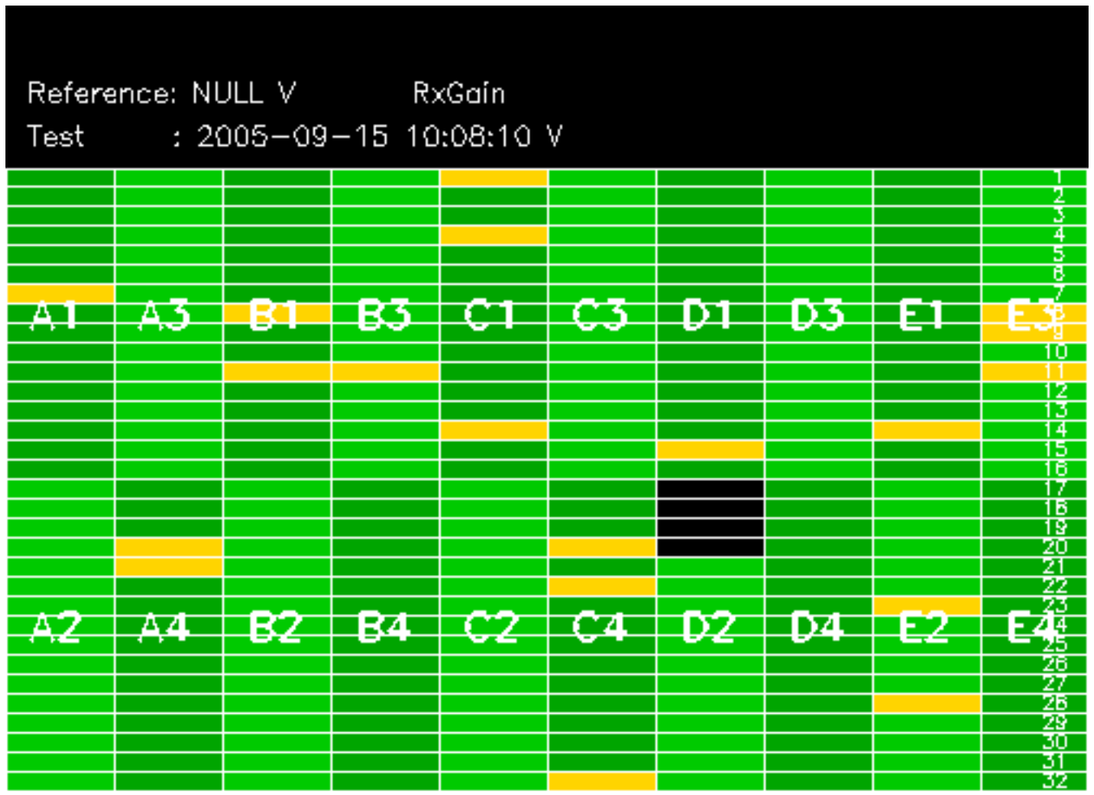
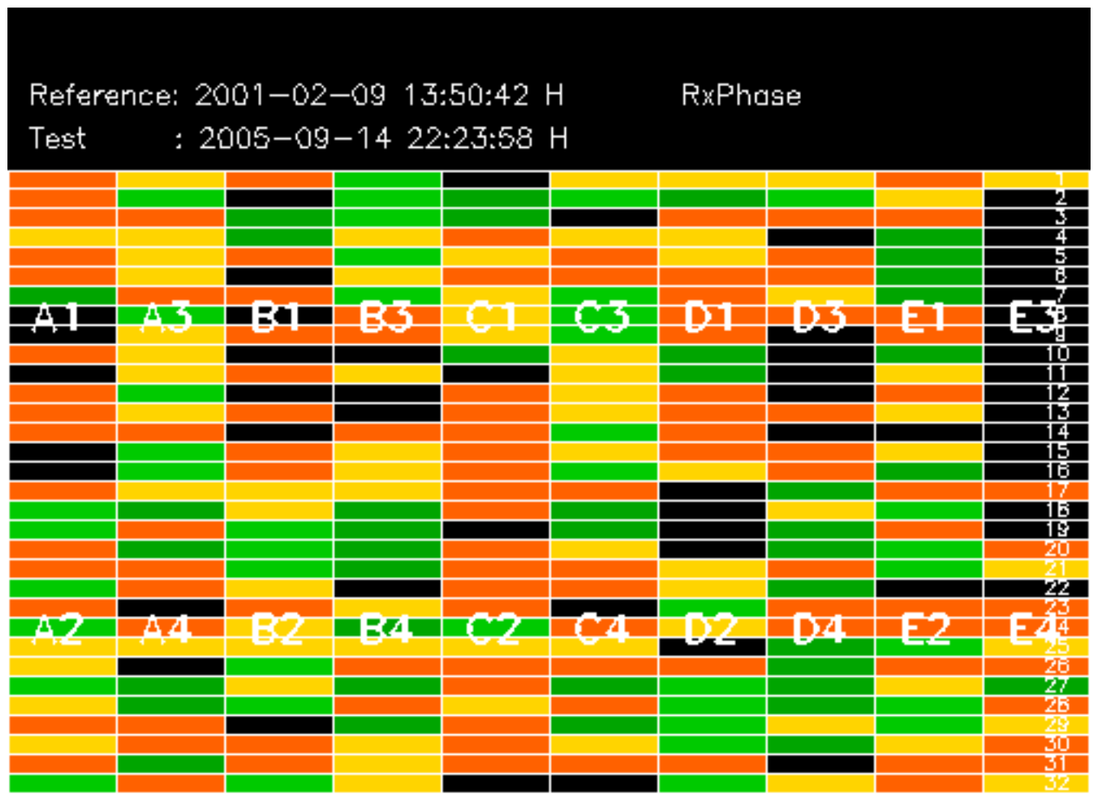
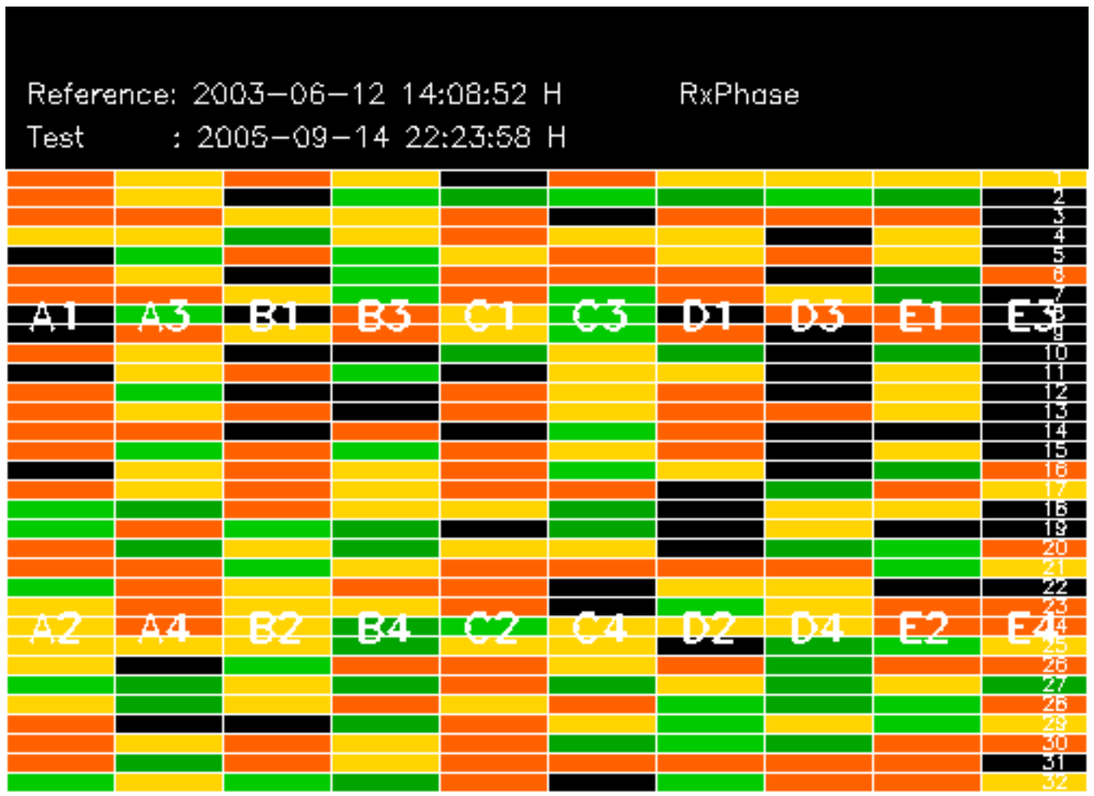
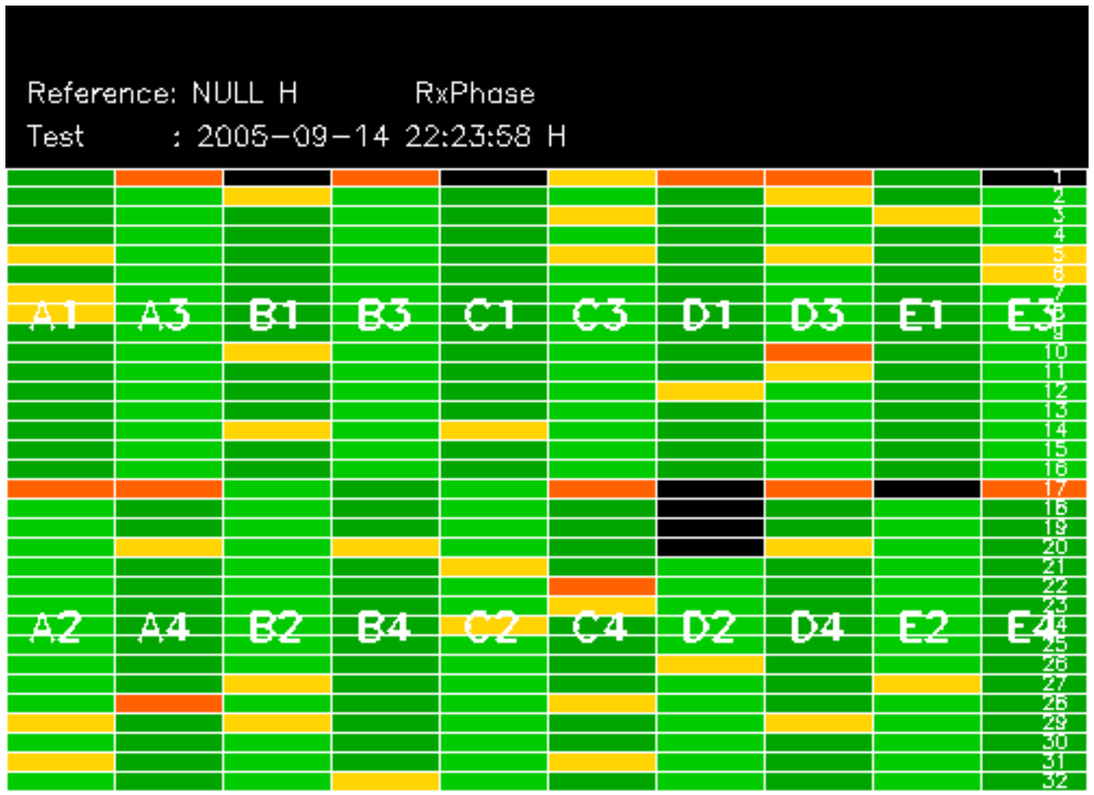
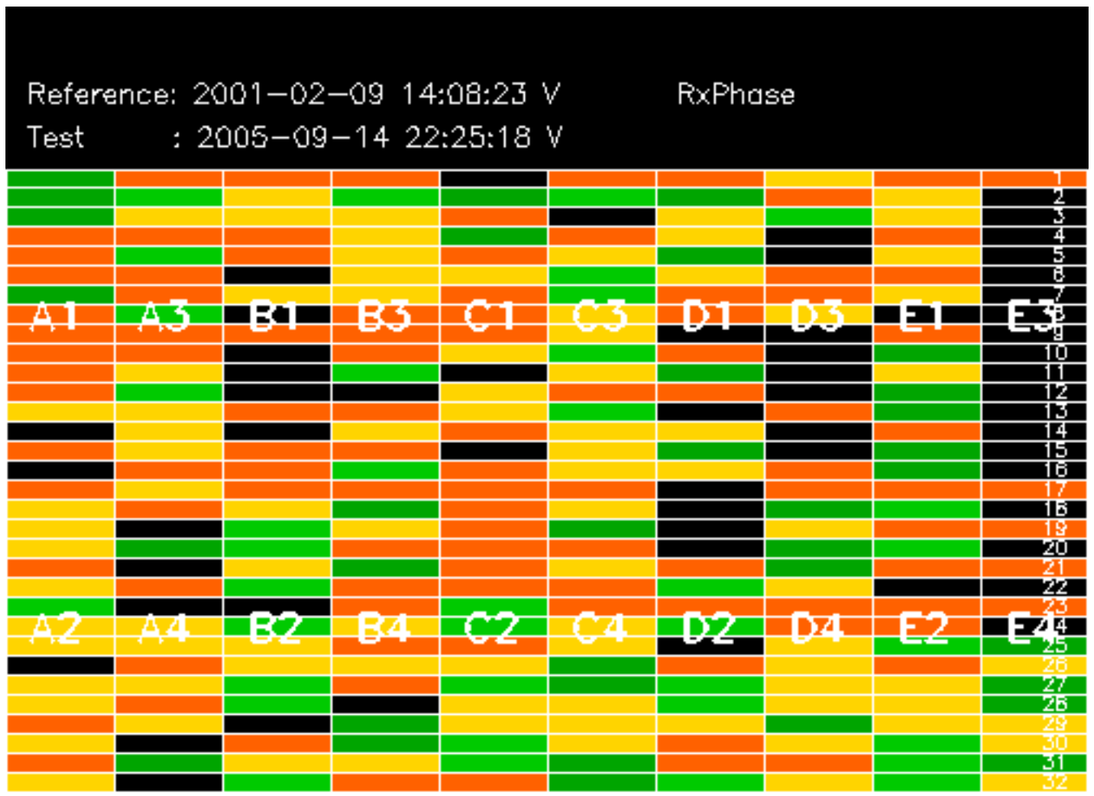
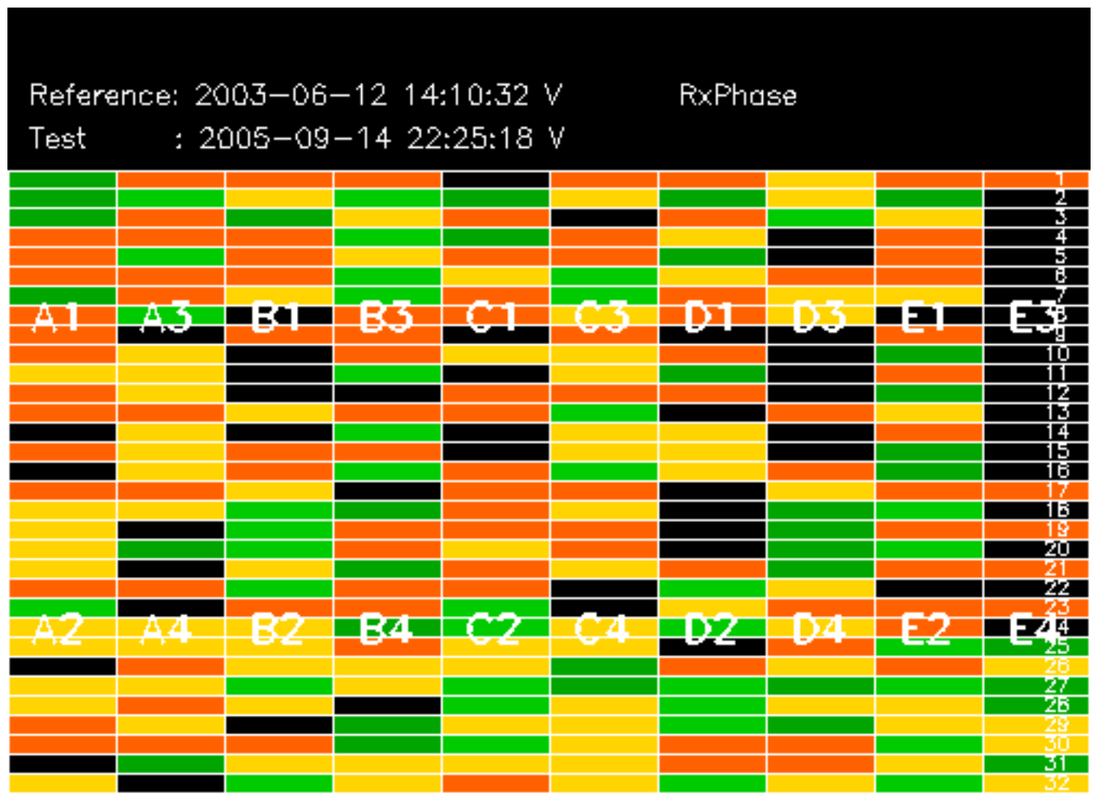

Reference: NULL V RxGain
Test : 2005-09-15 10:08:10 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2005-09-14 22:23:58 H
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
RxPhase
Test : 2005-09-14 22:23:58 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 : 2005-09-14 22:23:58 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
RxPhase
Test : 2005-09-14 22:25:18 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 : 2005-09-14 22:25:18 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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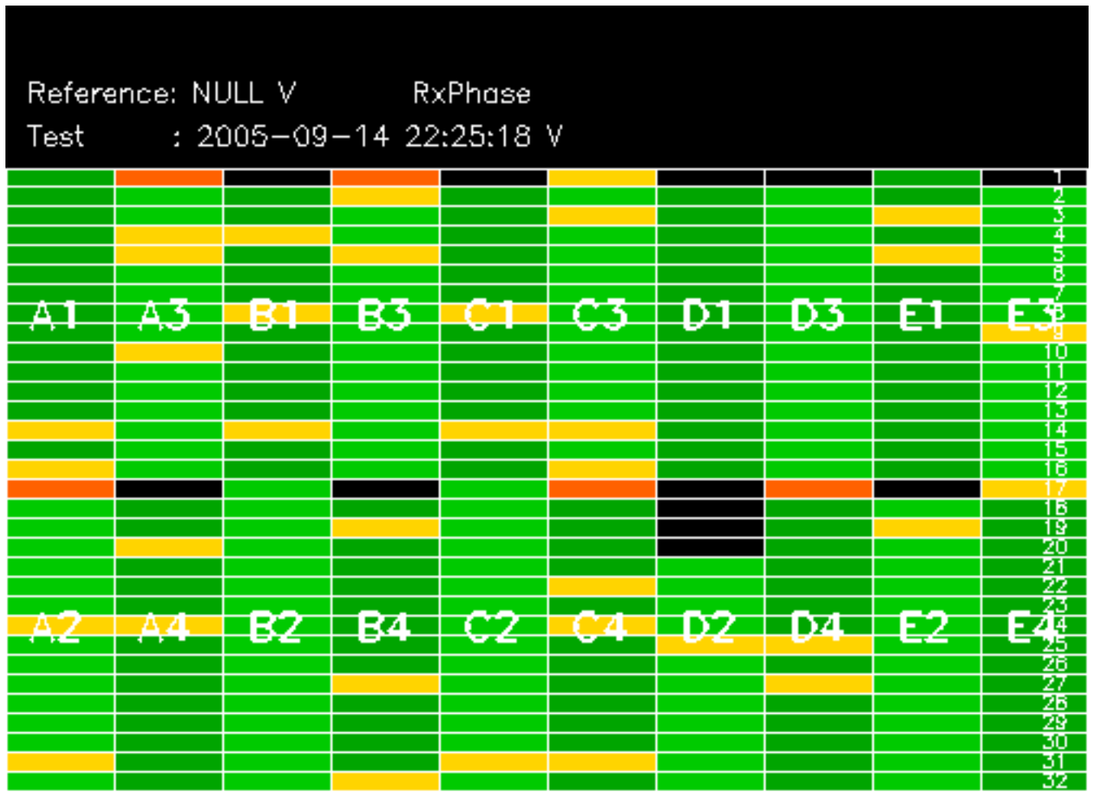
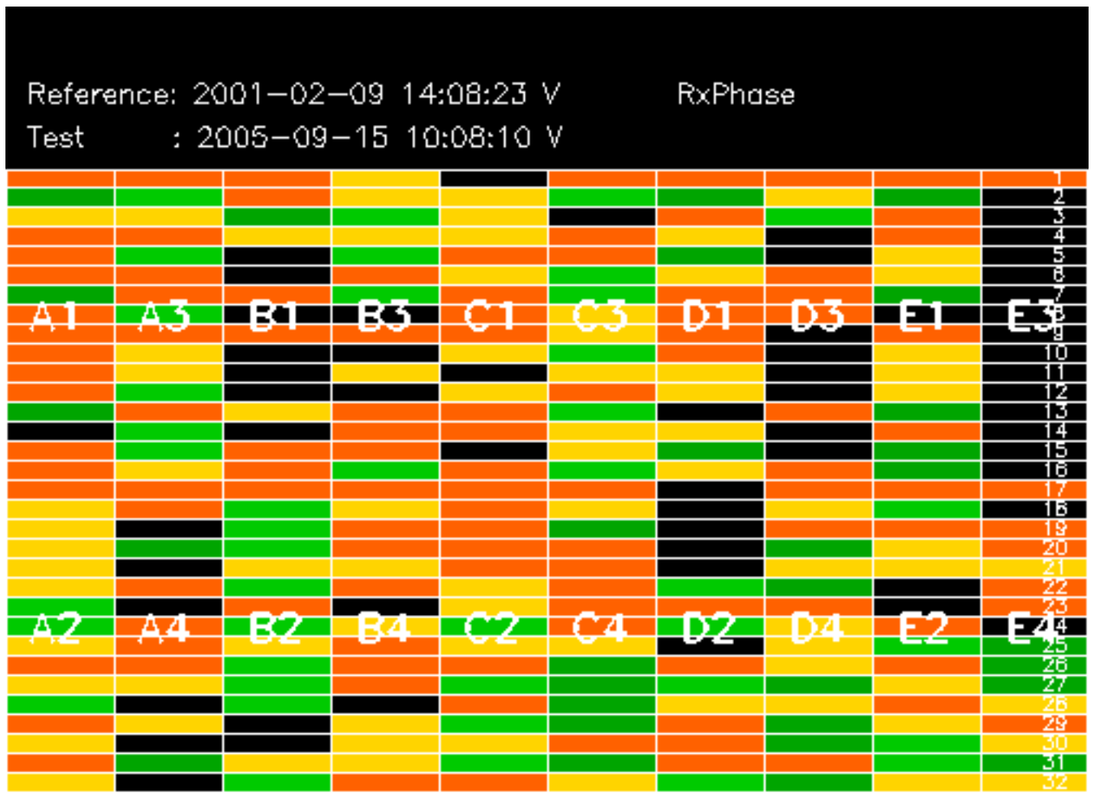
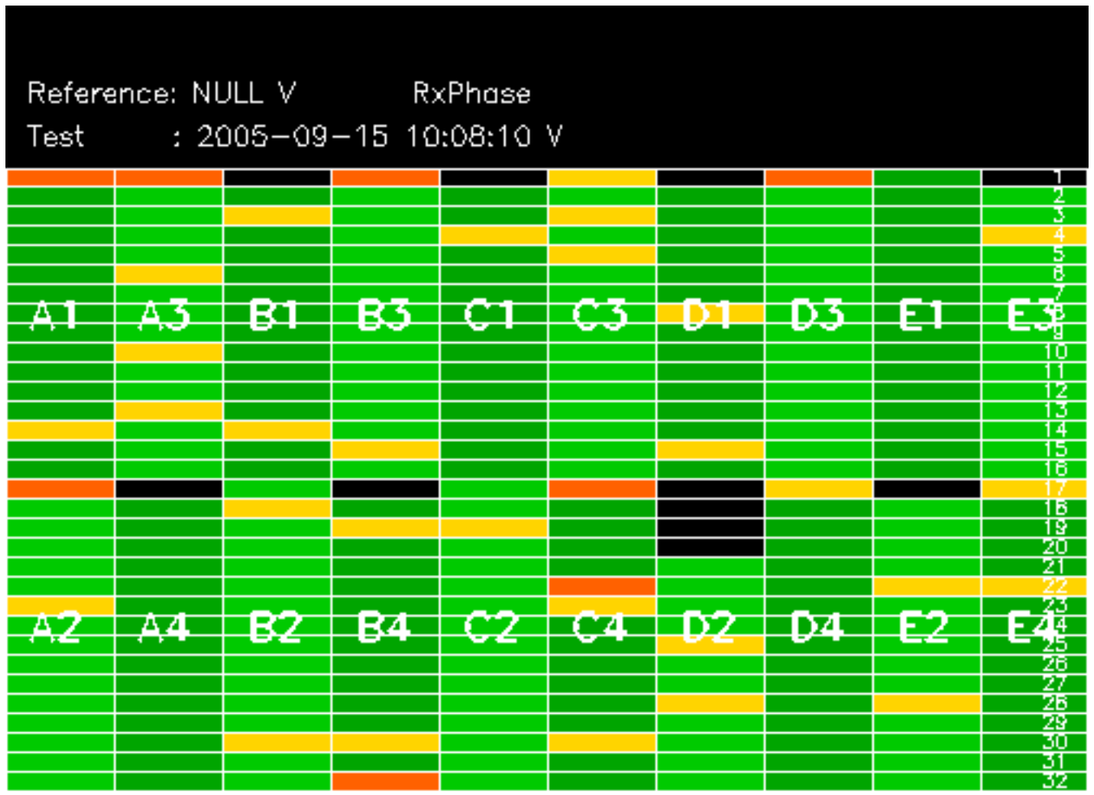
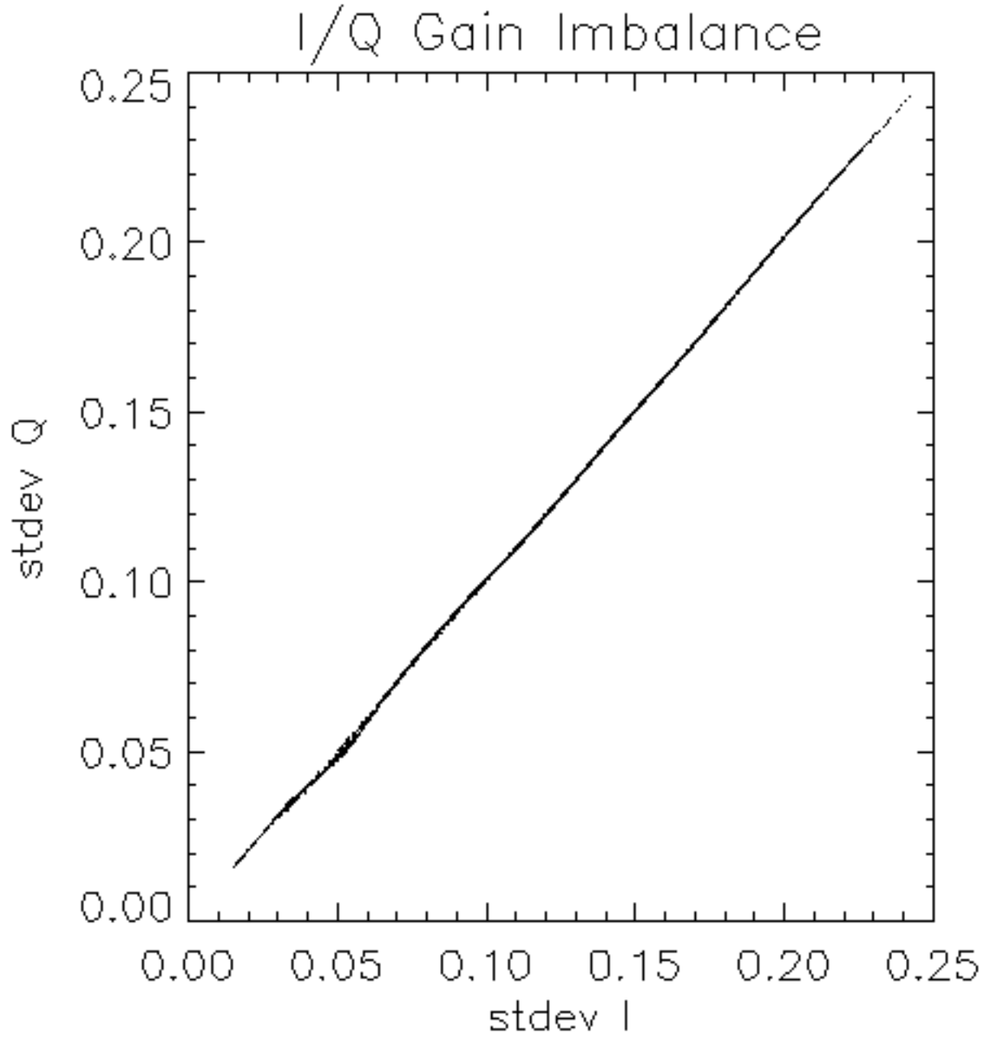
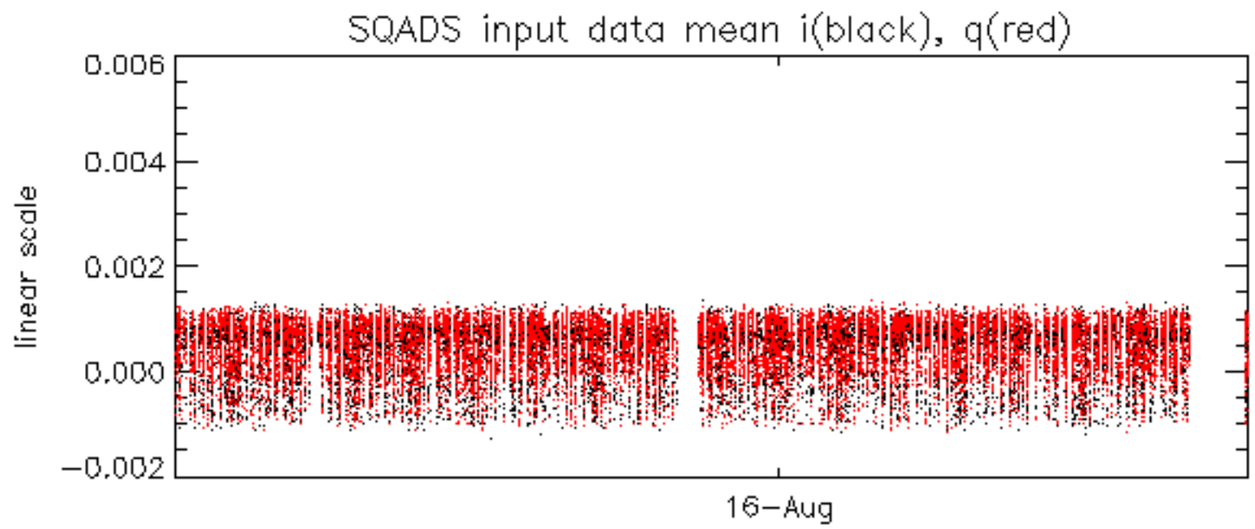
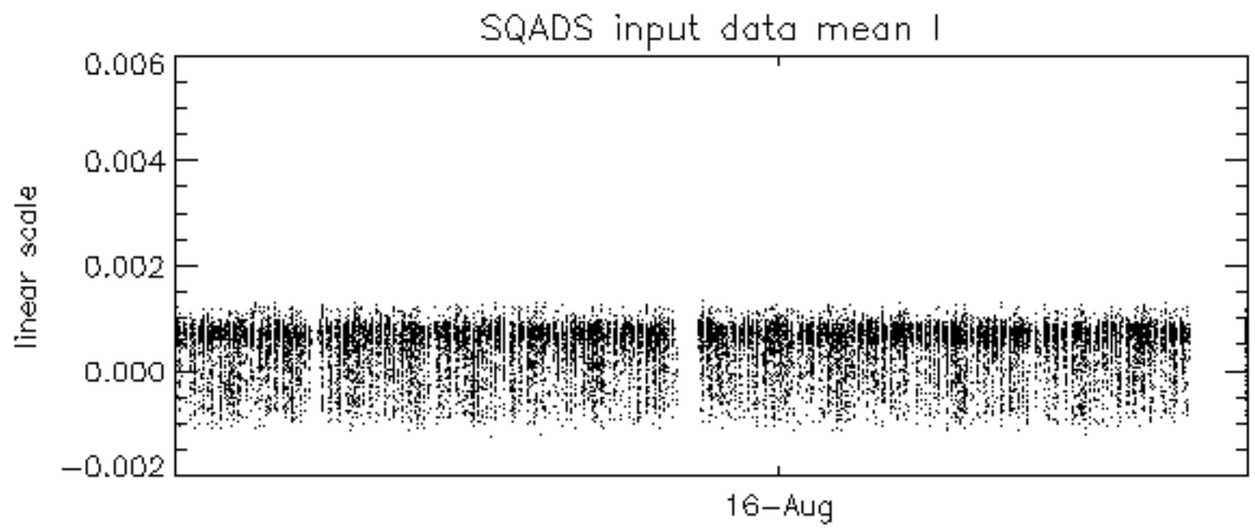

Reference: NULL V RxPhase
Test : 2005-09-14 22:25:18 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

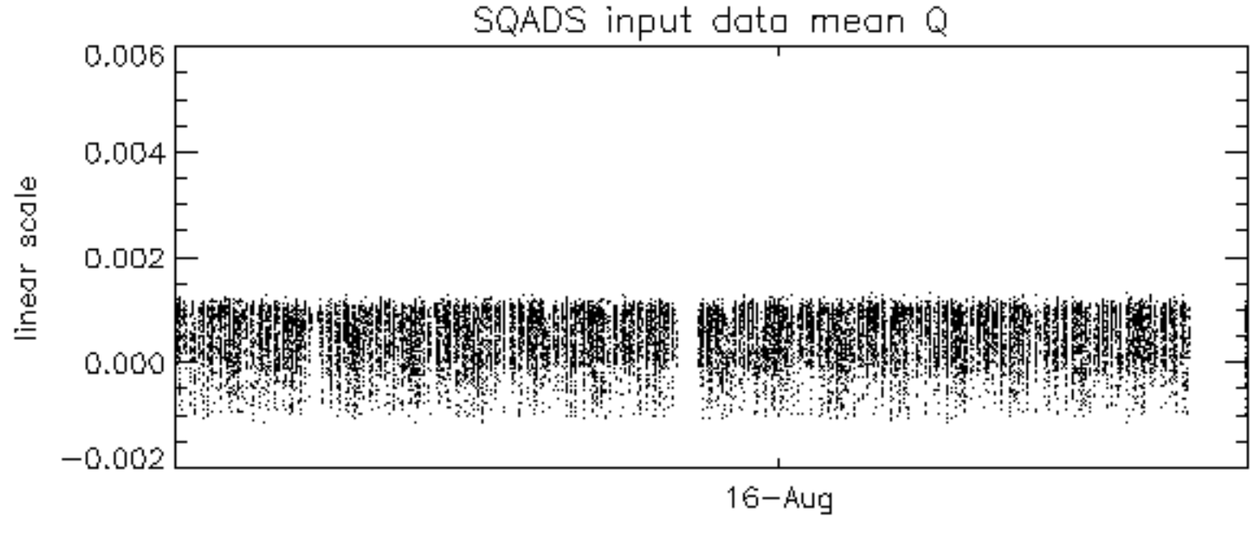

Reference: 2001-02-09 14:08:23 V
Test : 2005-09-15 10:08:10 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

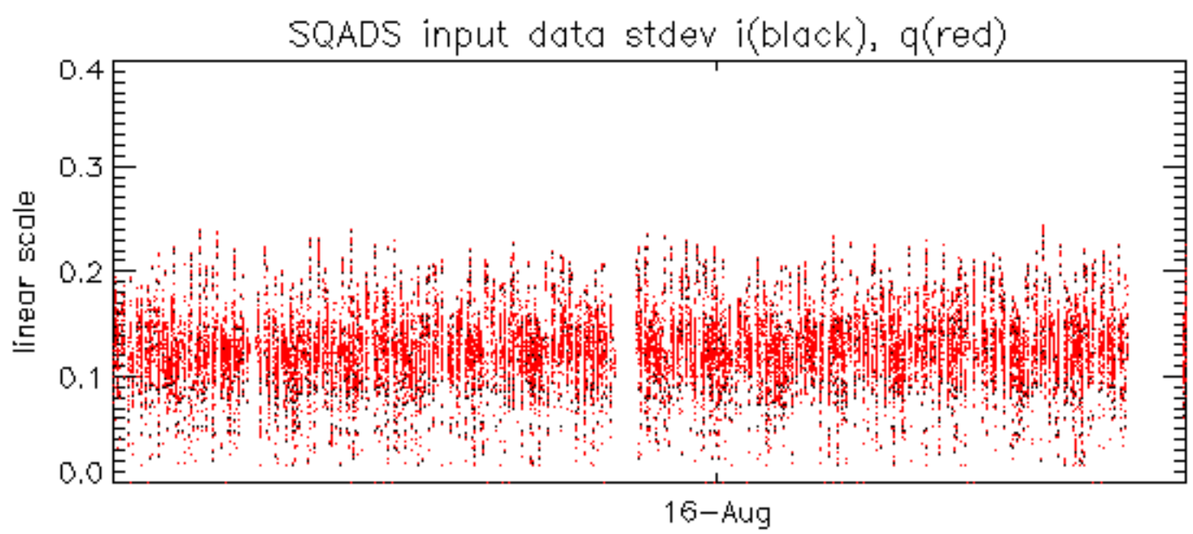

Reference: NULL V RxPhase
Test : 2005-09-15 10:08:10 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

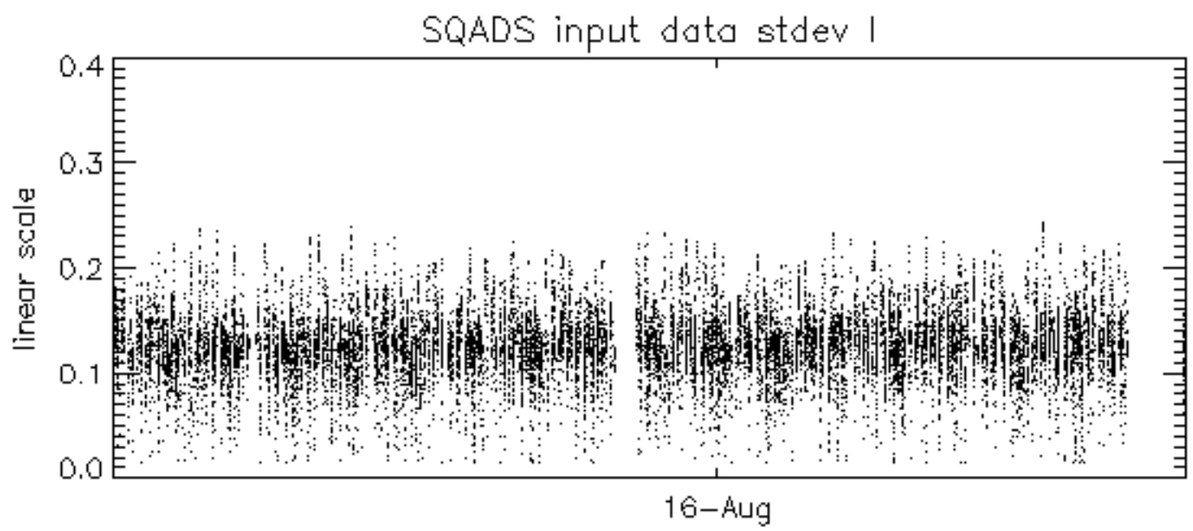

I/Q Gain Imbalance
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00
0.05
0.10
0.15
0.20
0.25
stdev I

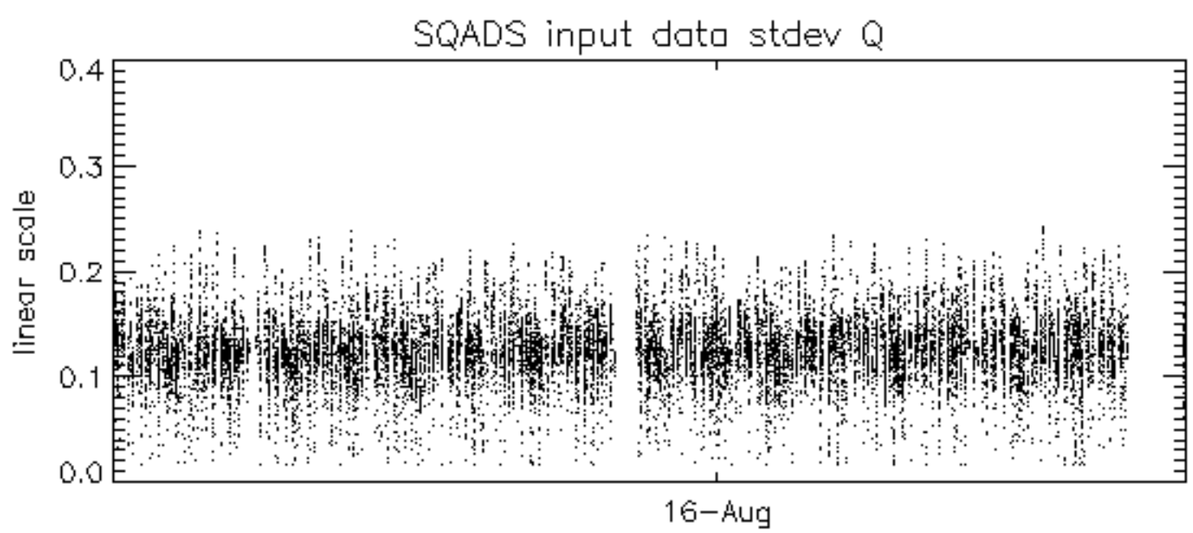

SQADS input data mean i(black), q(red)
0.006
0.004
0.002
0.000
−0.002
linear scale
16−Aug

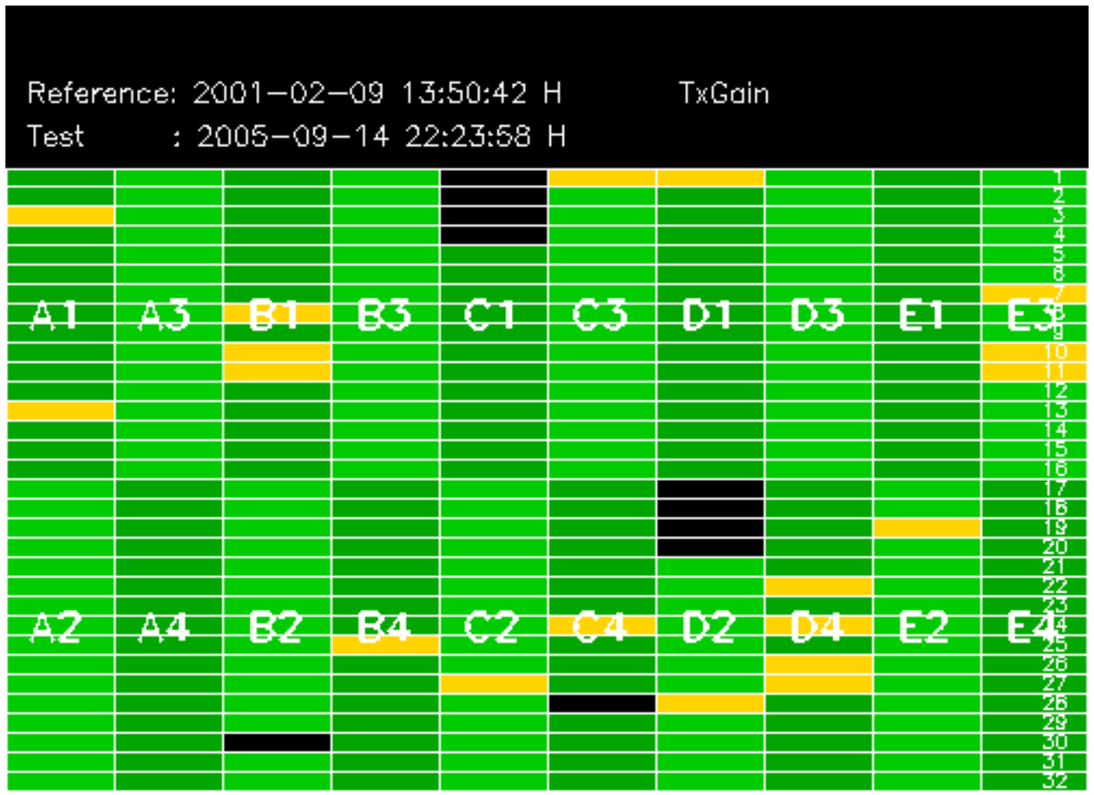

SQADS input data mean I
0.006
0.004
0.002
0.000
−0.002
linear scale
16−Aug

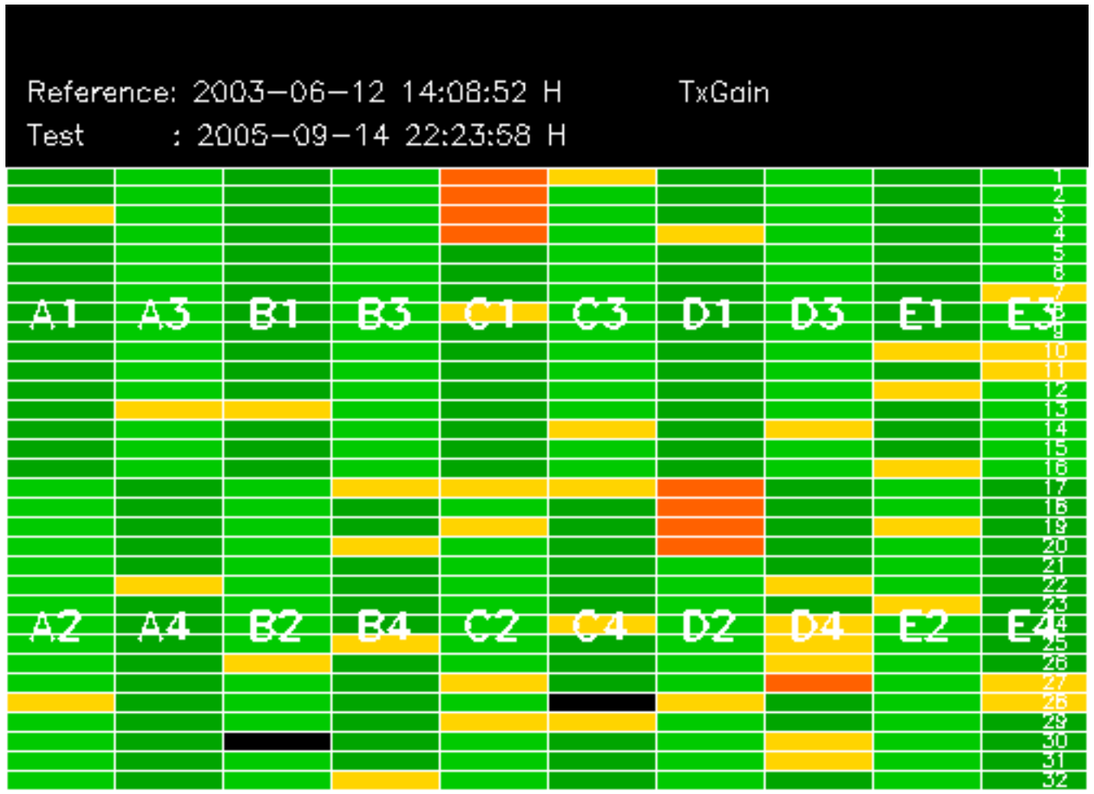

SQADS input data mean Q
0.006
0.004
0.002
0.000
−0.002
linear scale
16−Aug

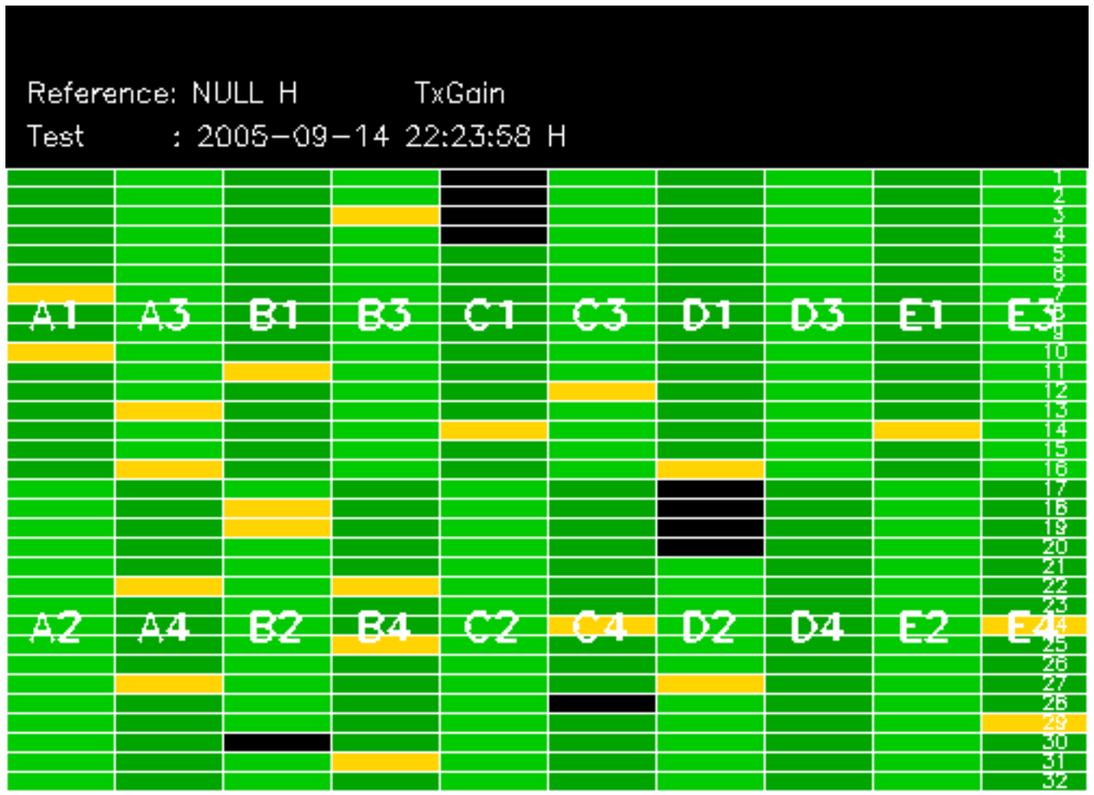

SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
16-Aug

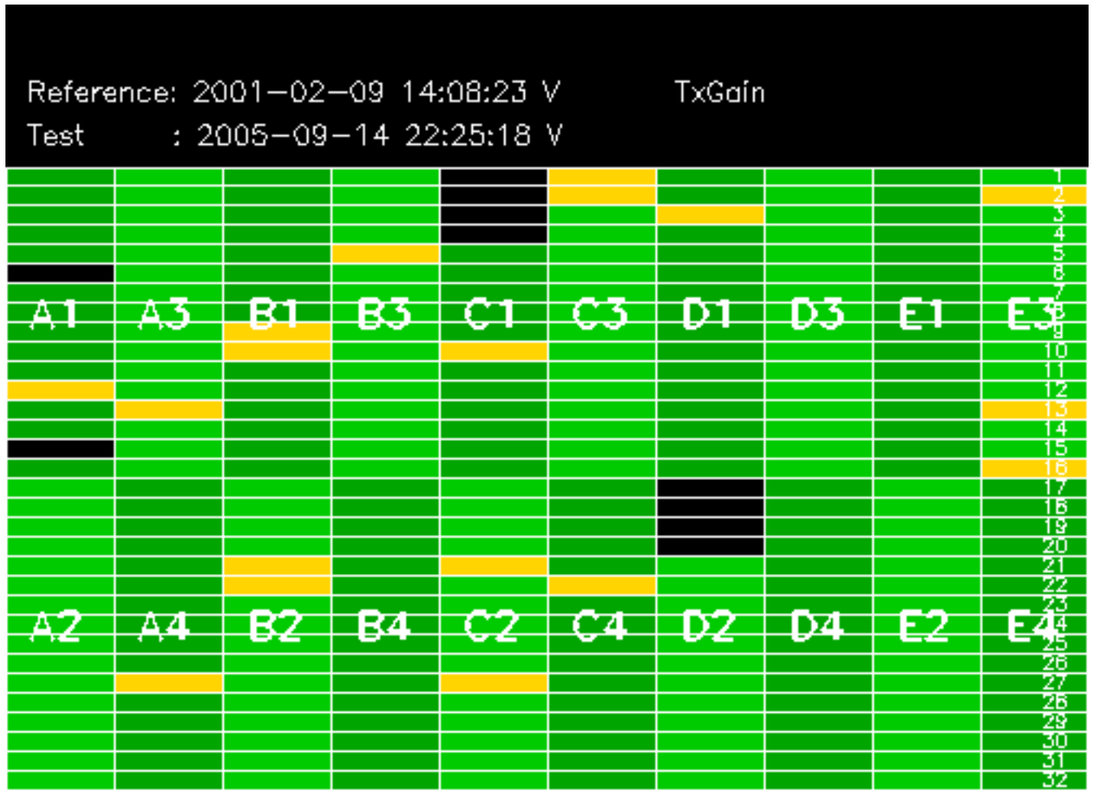

SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
16-Aug


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


Reference: 2001-02-09 13:50:42 H
Test : 2005-09-14 22:23:58 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 : 2005-09-14 22:23:58 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: NULL H TxGain
Test : 2005-09-14 22:23:58 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 : 2005-09-14 22:25:18 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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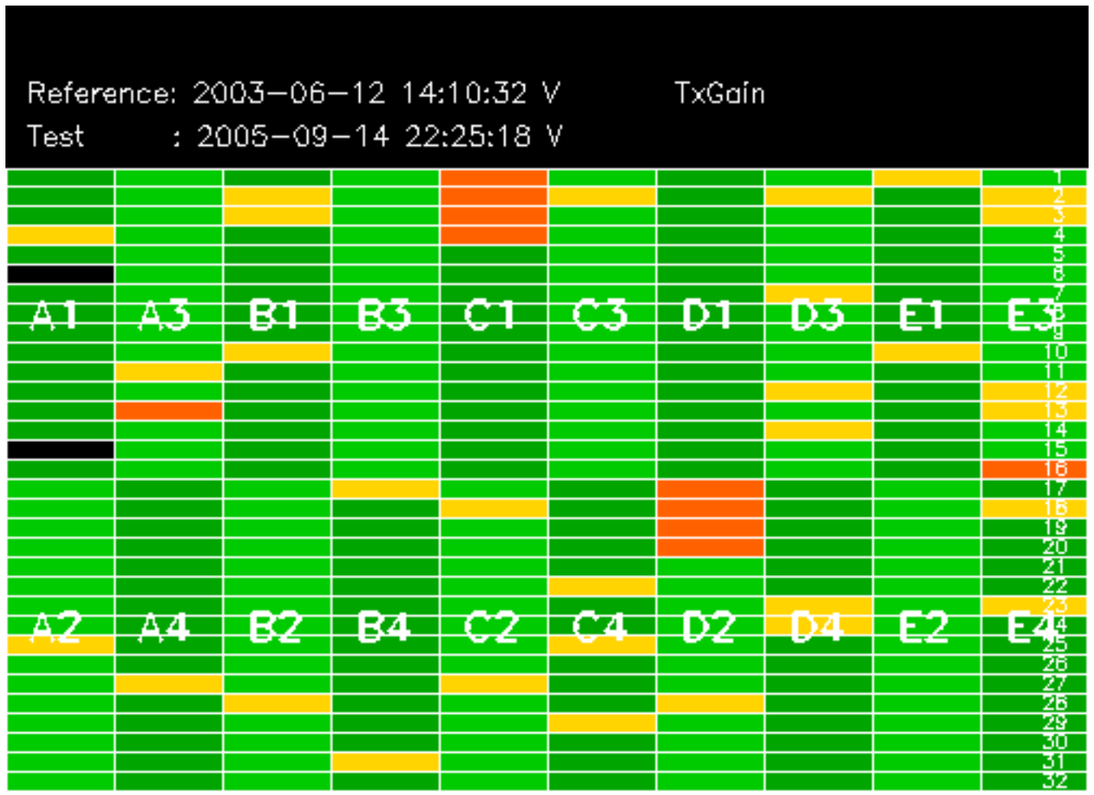
Reference: 2003-06-12 14:10:32 V
Test : 2005-09-14 22:25:18 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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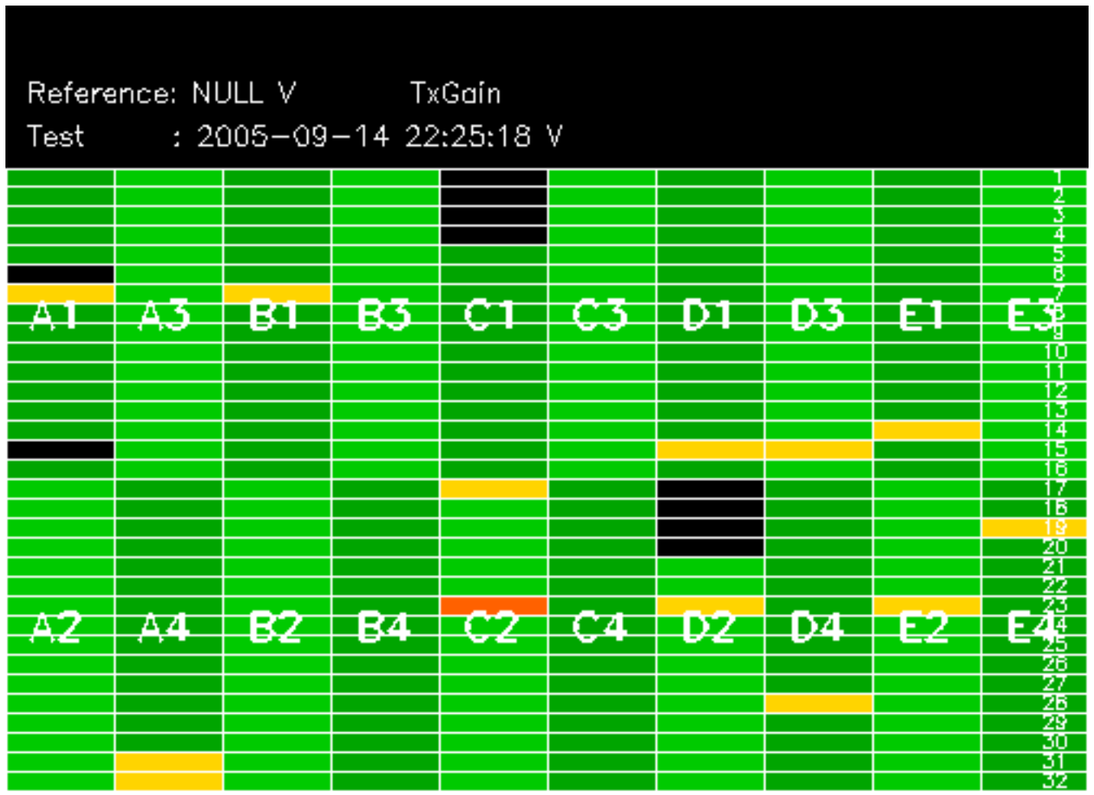
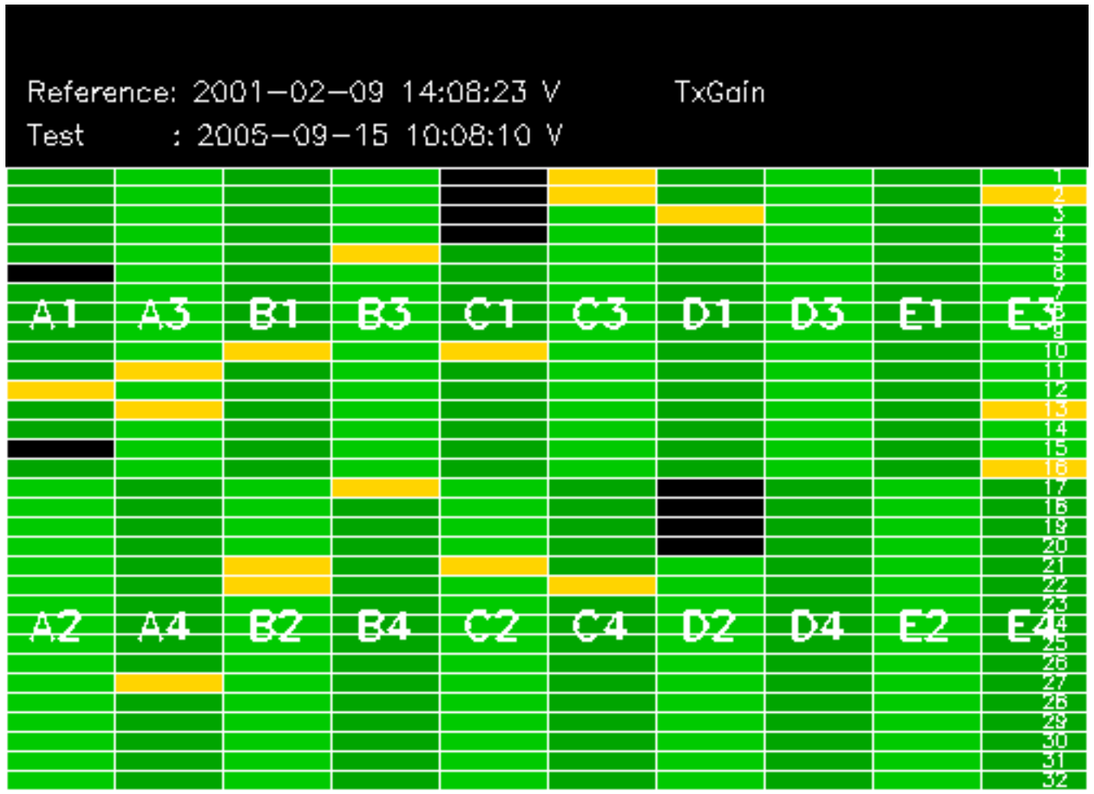

Reference: NULL V TxGain
Test : 2005-09-14 22:25:18 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2005-09-15 10:08:10 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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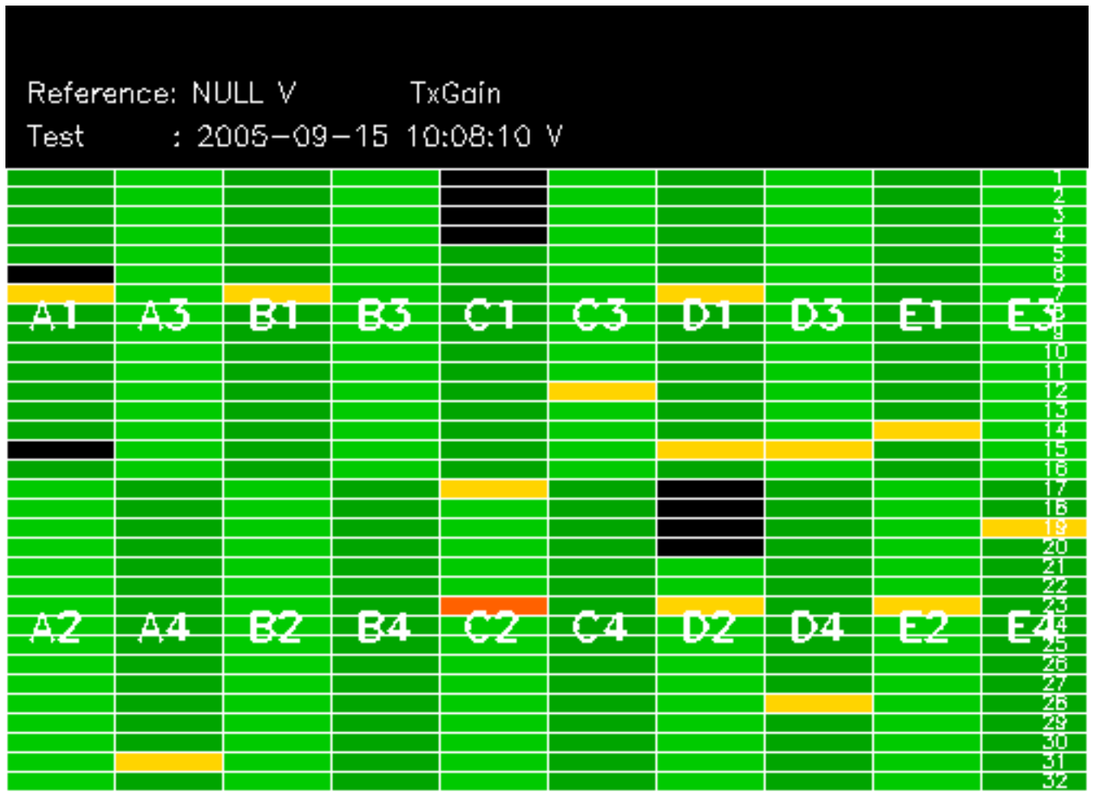
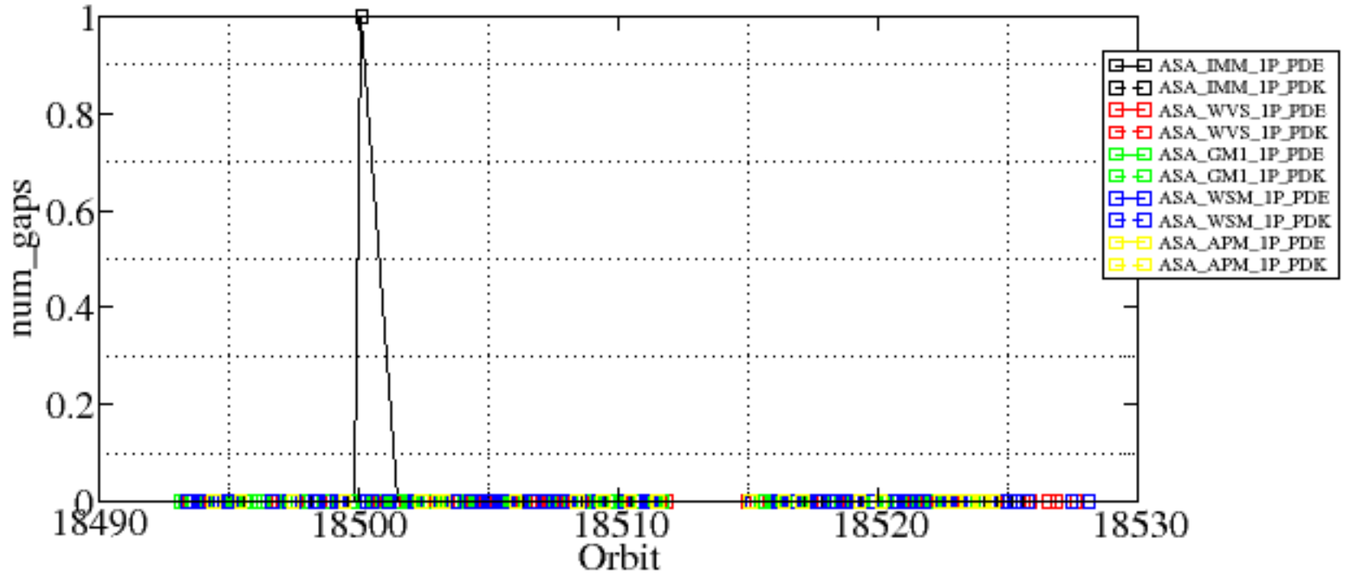
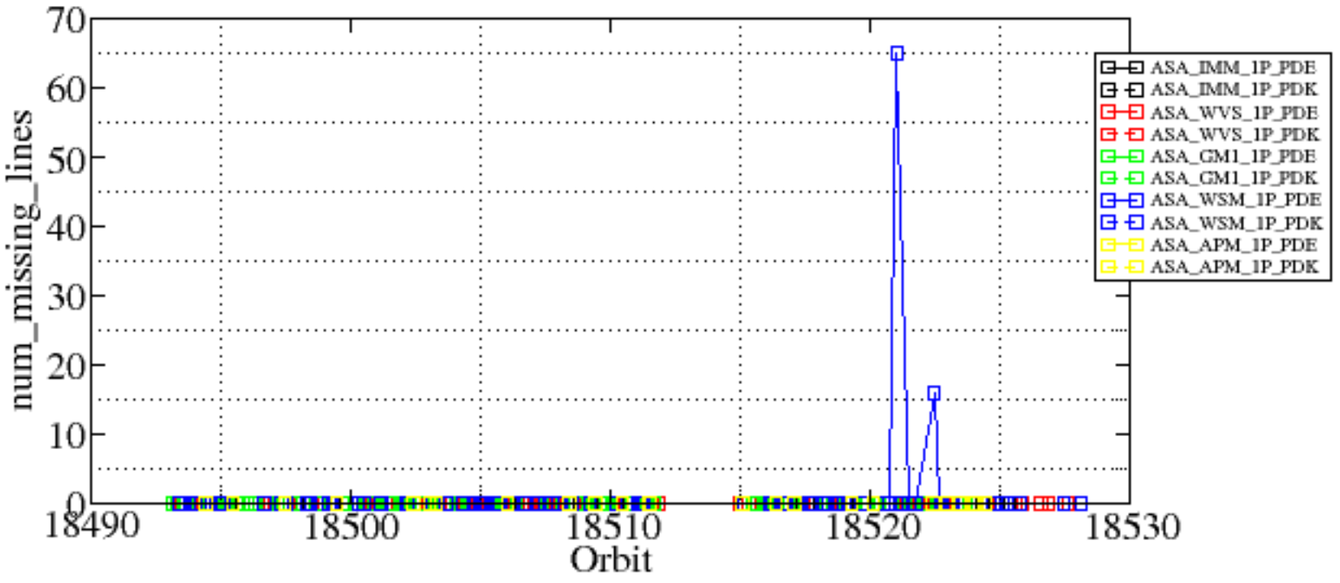
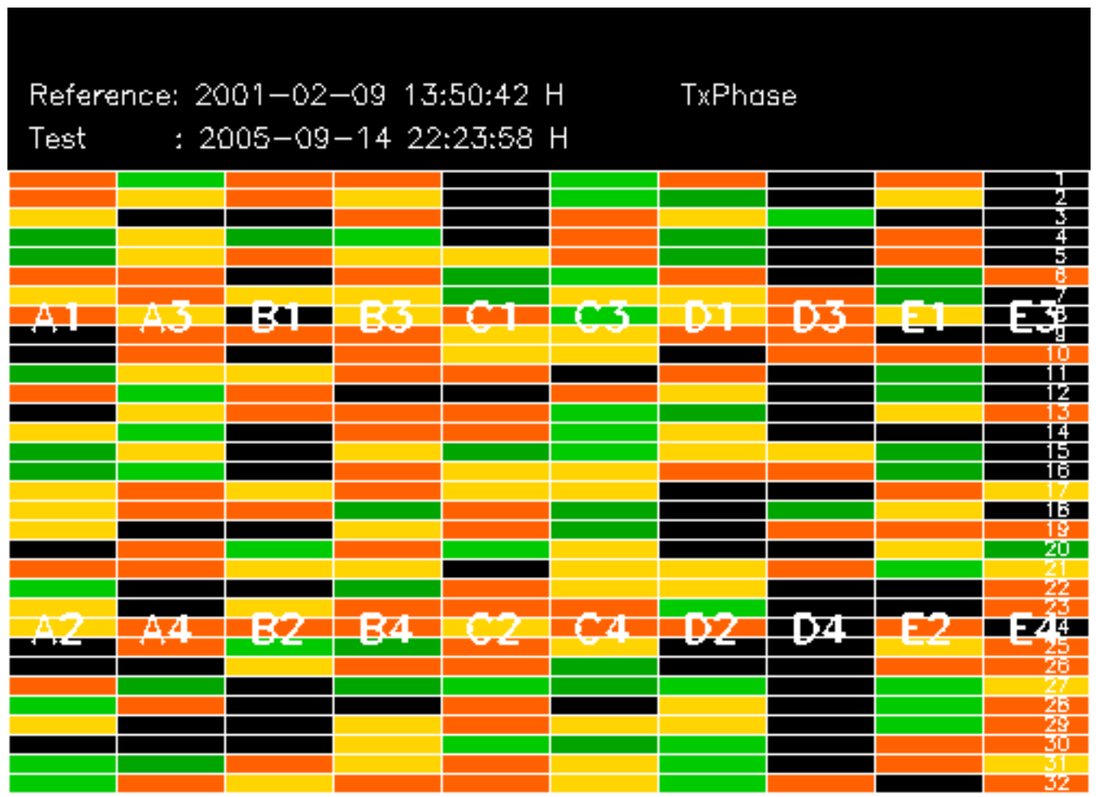
32

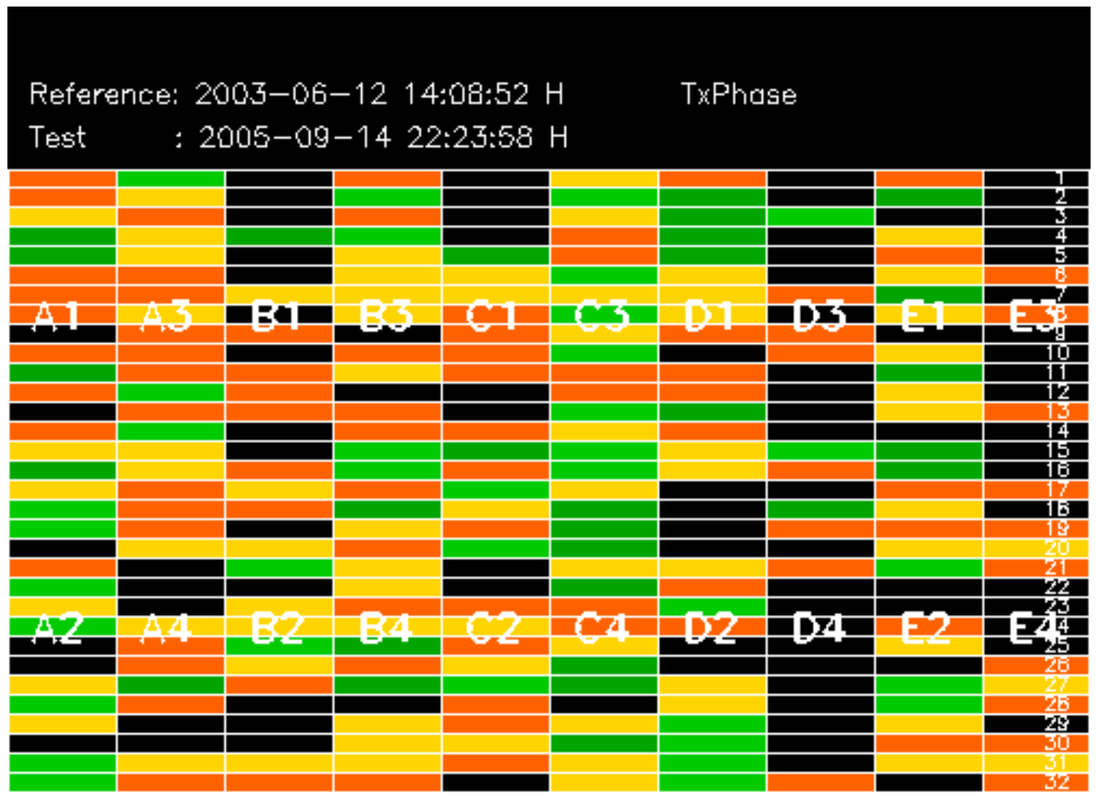

Reference: NULL V TxGain
Test : 2005-09-15 10:08:10 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

Summary of analysis for the last 3 days 2005091[345]
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_1PNPDE20050914_225857_000003002040_00431_18521_8744.N1 </td> <td>0 </td> <td>65 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20050915_012427_000004282040_00432_18522_8770.N1 </td> <td>0 </td> <td>16 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
18490
18500
18510
18520
18530
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
18490
18500
18510
18520
18530
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 : 2005-09-14 22:23:58 H
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
TxPhase
Test : 2005-09-14 22:23:58 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
13
14
15
16
17
18
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21
22
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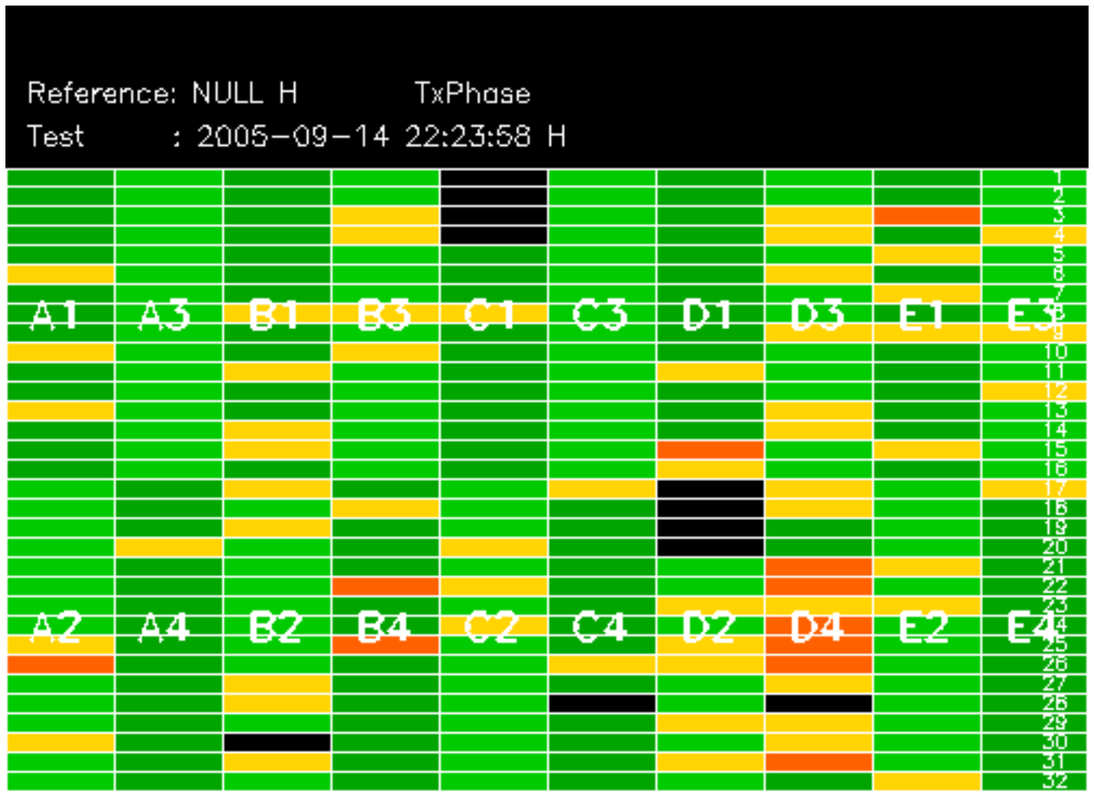
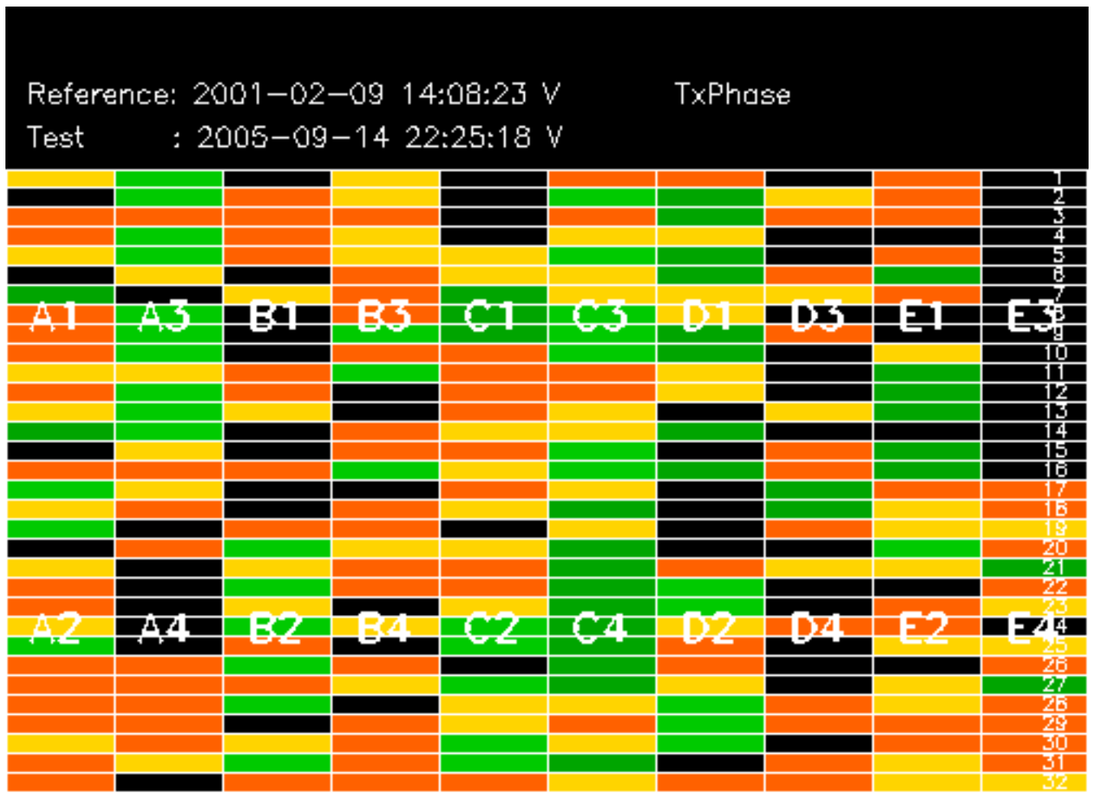
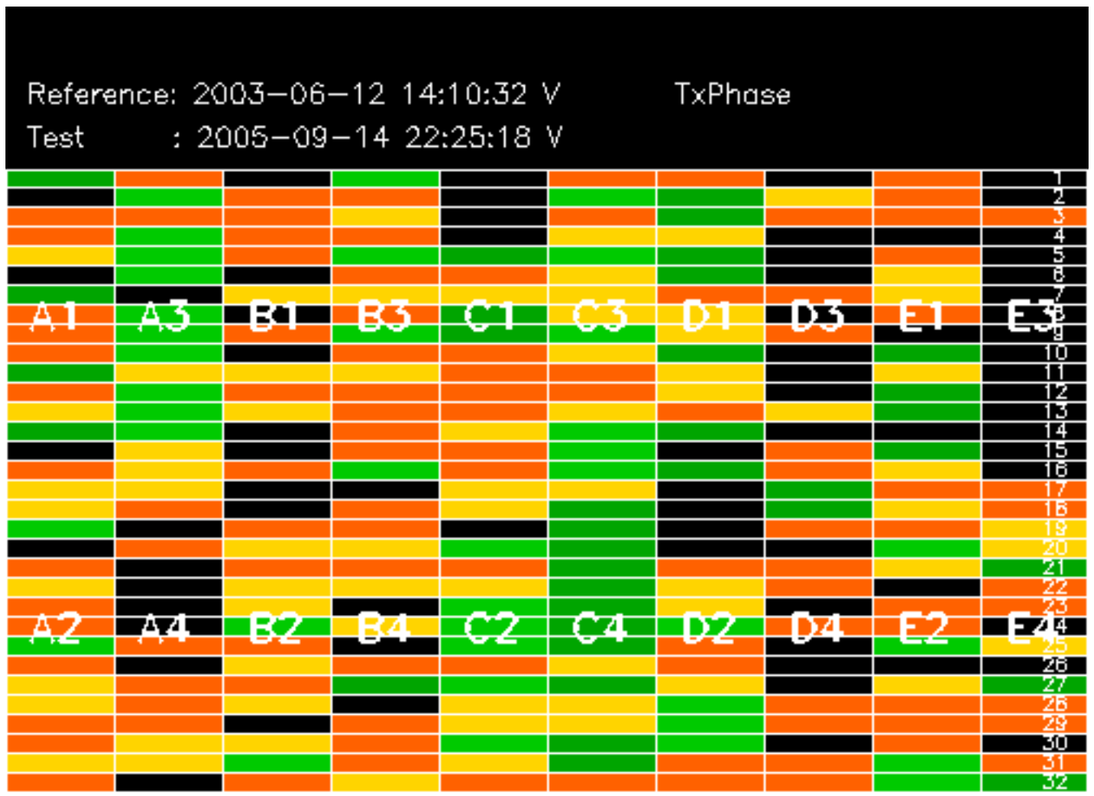
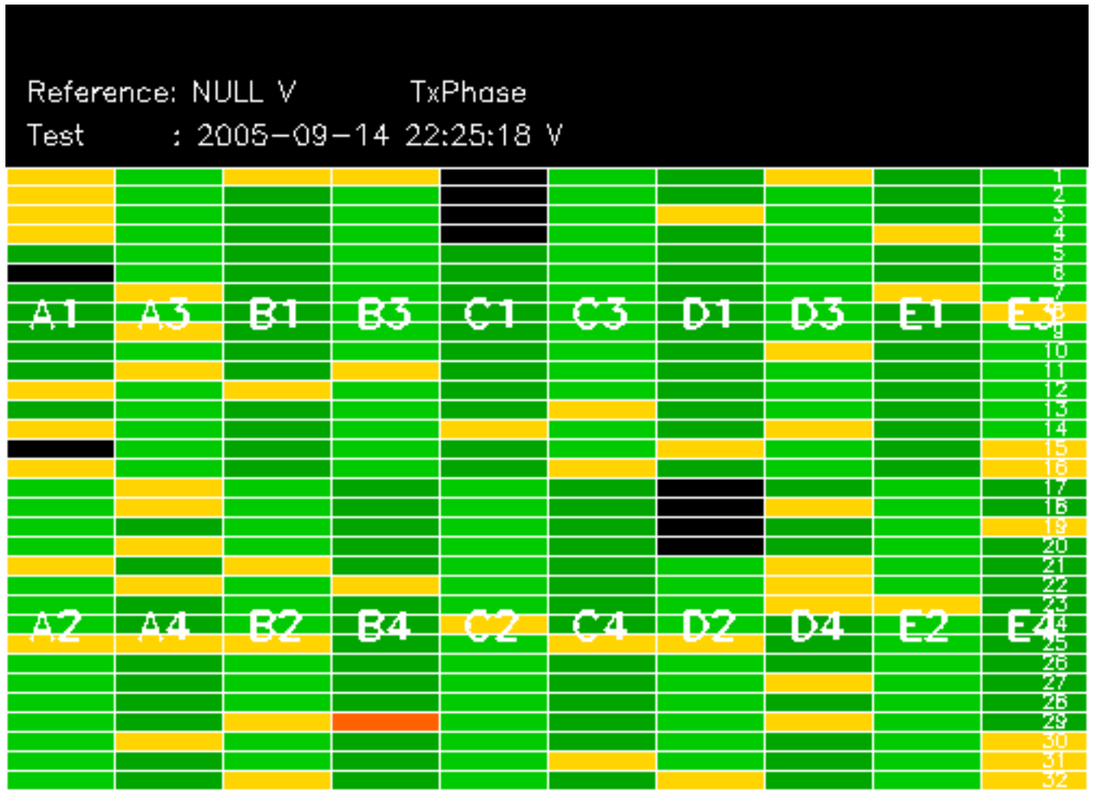
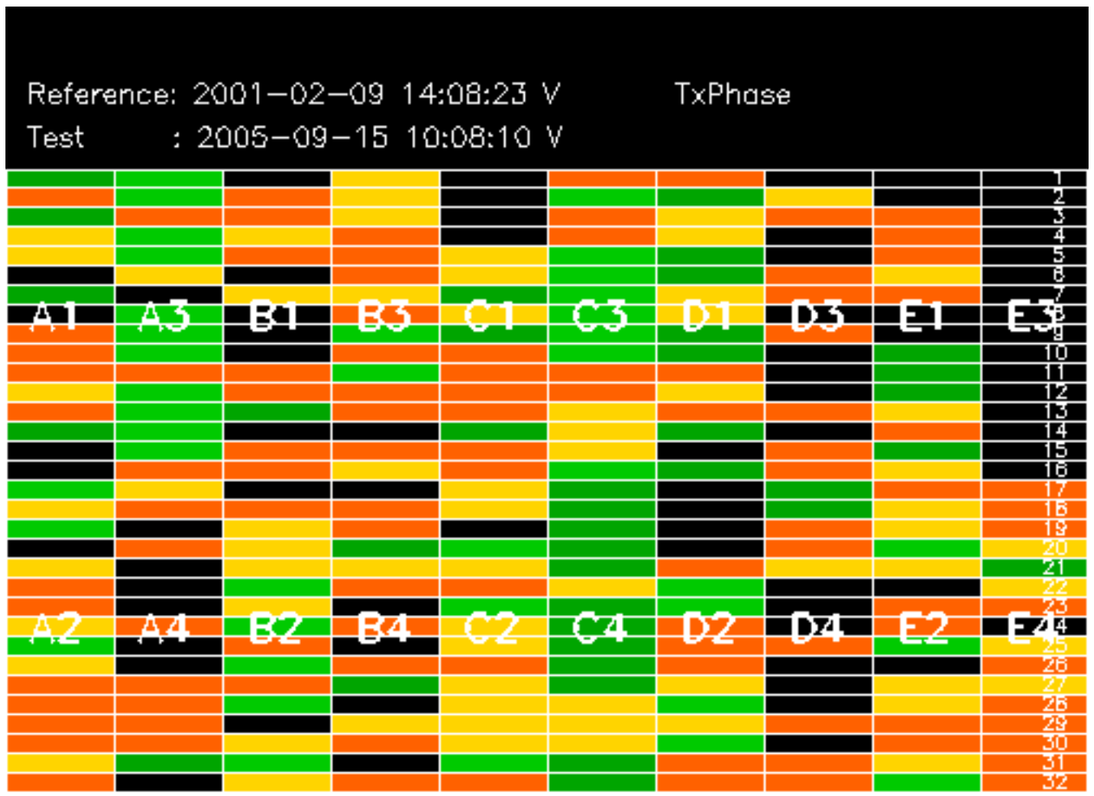
31
32

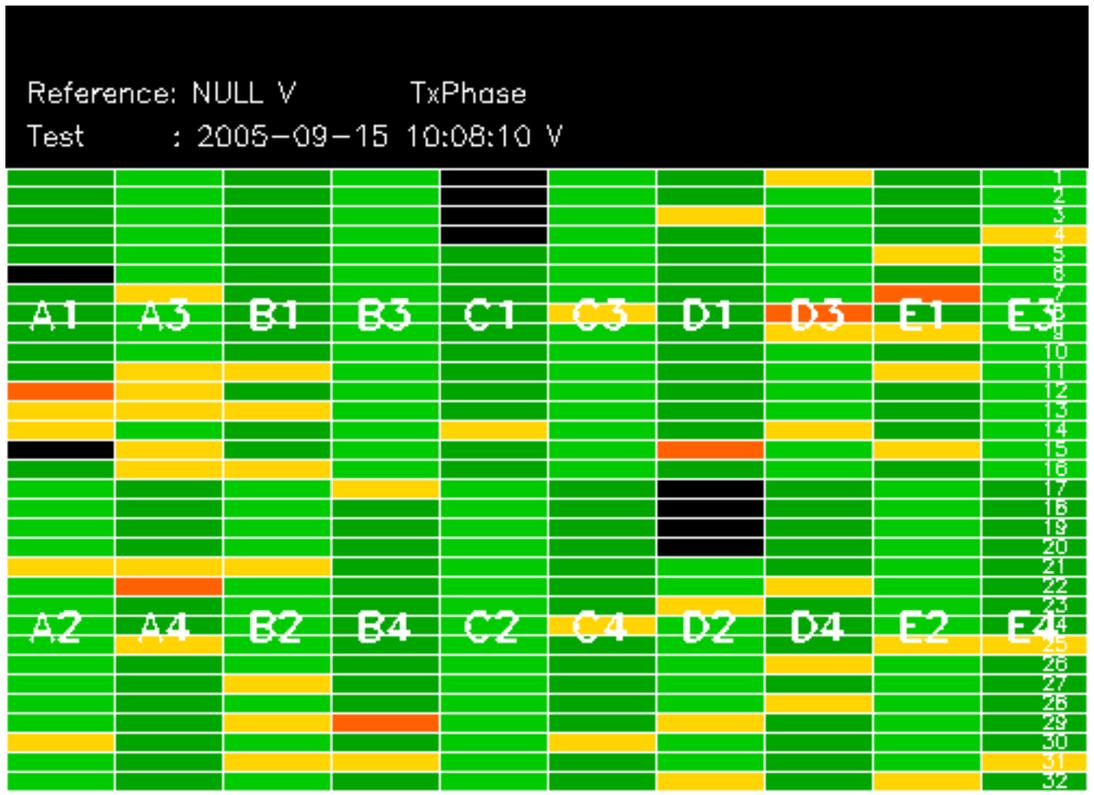

Reference: NULL H TxPhase
Test : 2005-09-14 22:23:58 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
TxPhase
Test : 2005-09-14 22:25:18 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 : 2005-09-14 22:25:18 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
19
20
21
22
23
24
25
26
27
28
29
30
31
32


Reference: NULL V TxPhase
Test : 2005-09-14 22:25:18 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 14:08:23 V
TxPhase
Test : 2005-09-15 10:08:10 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: NULL V TxPhase
Test : 2005-09-15 10:08:10 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
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27
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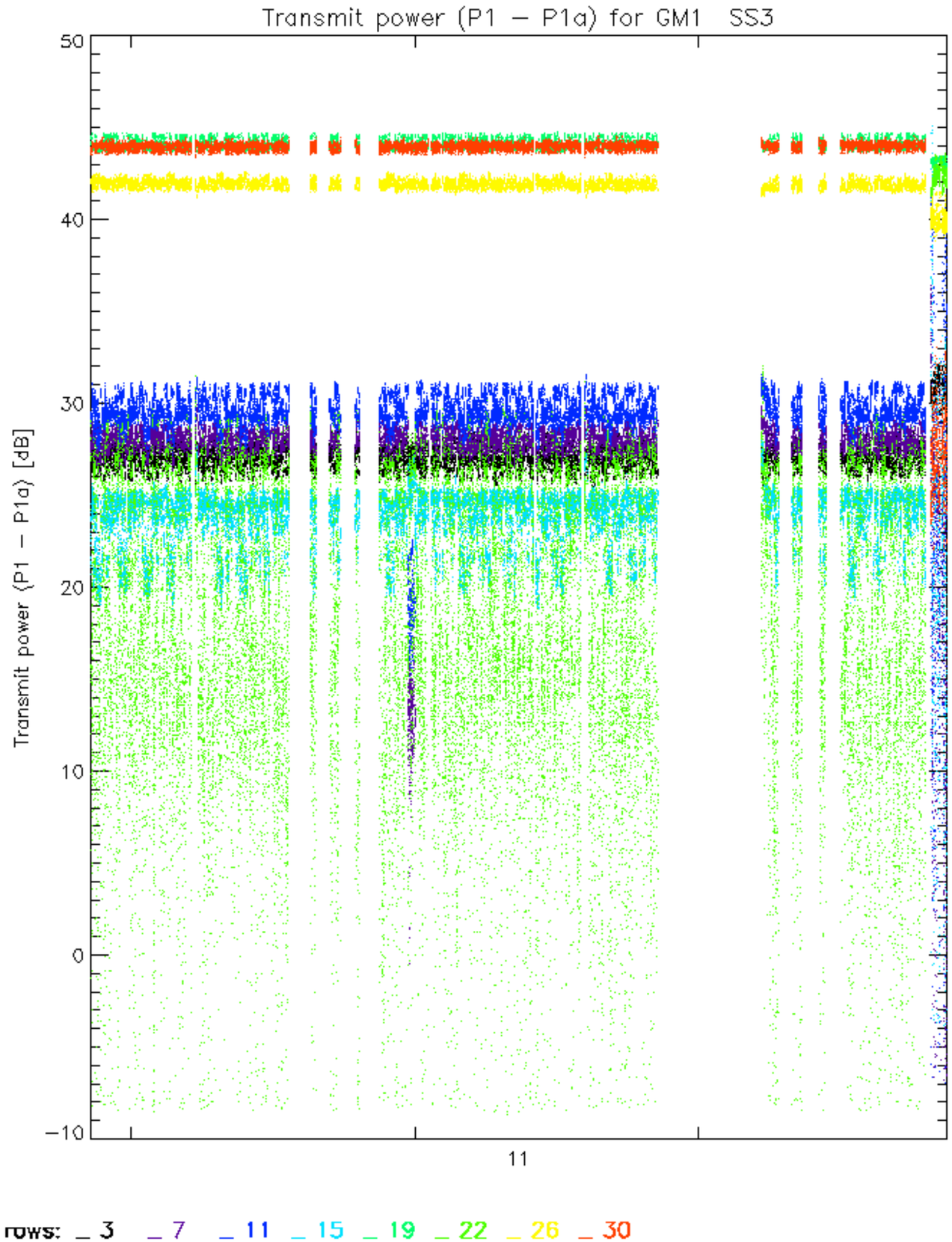
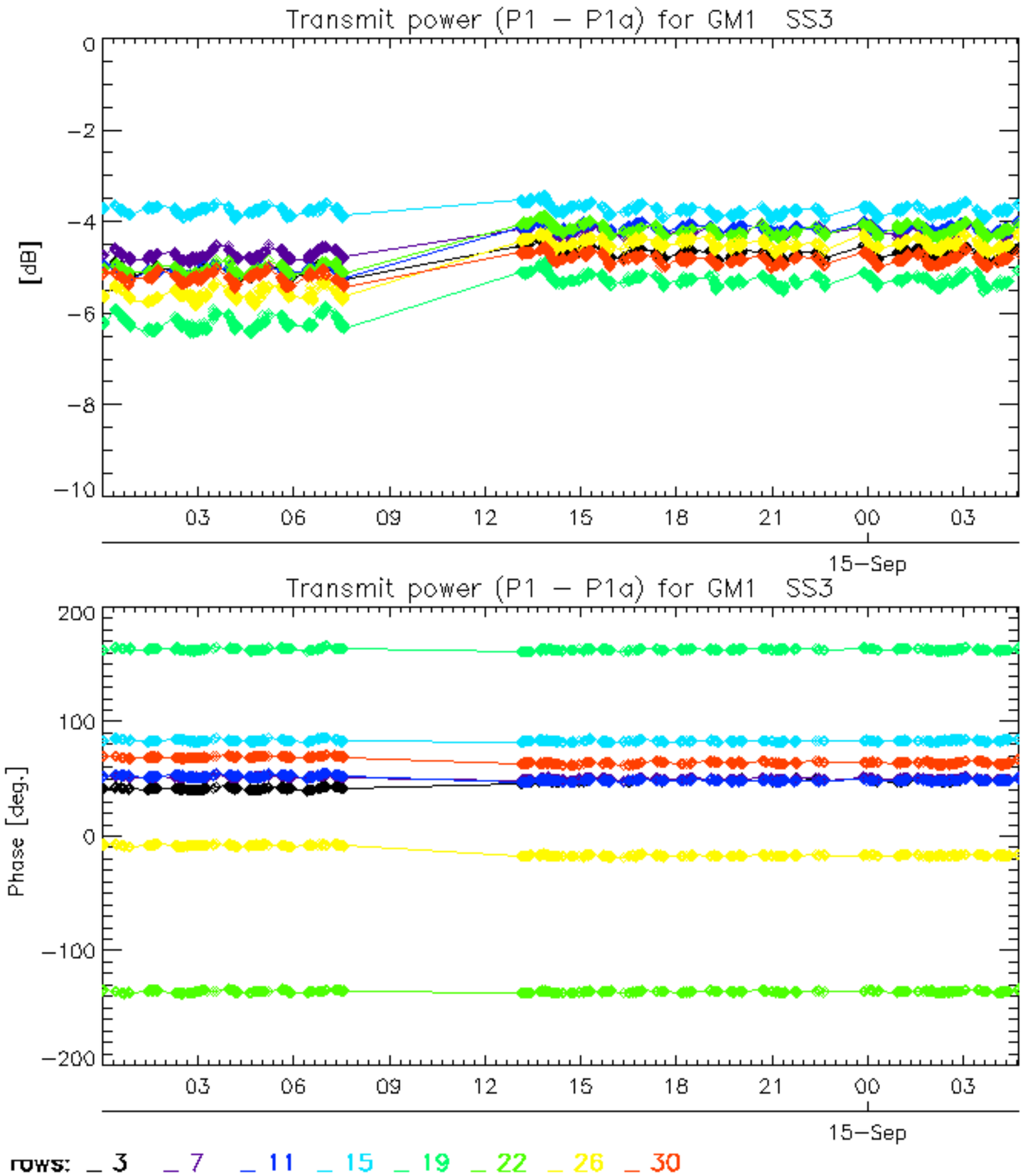
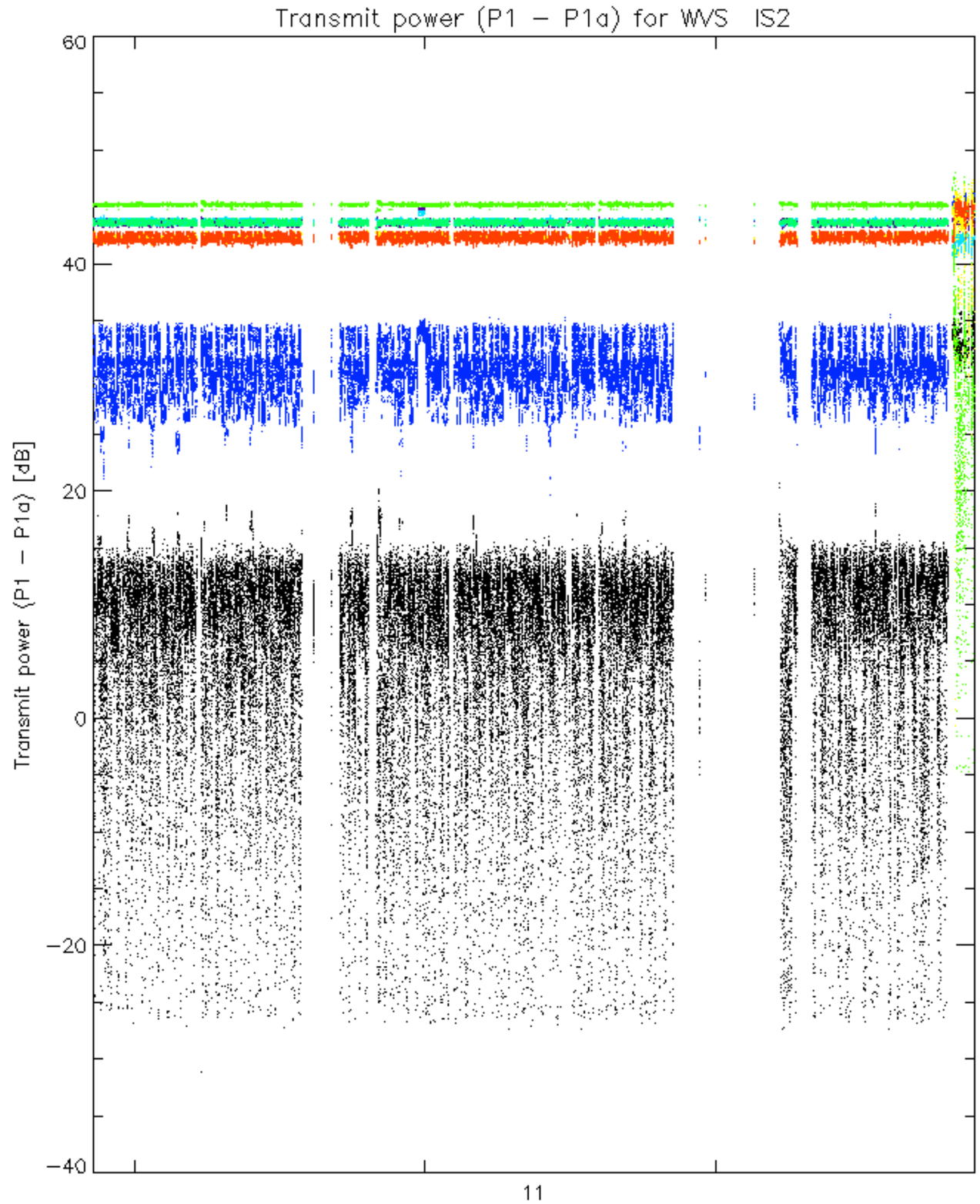
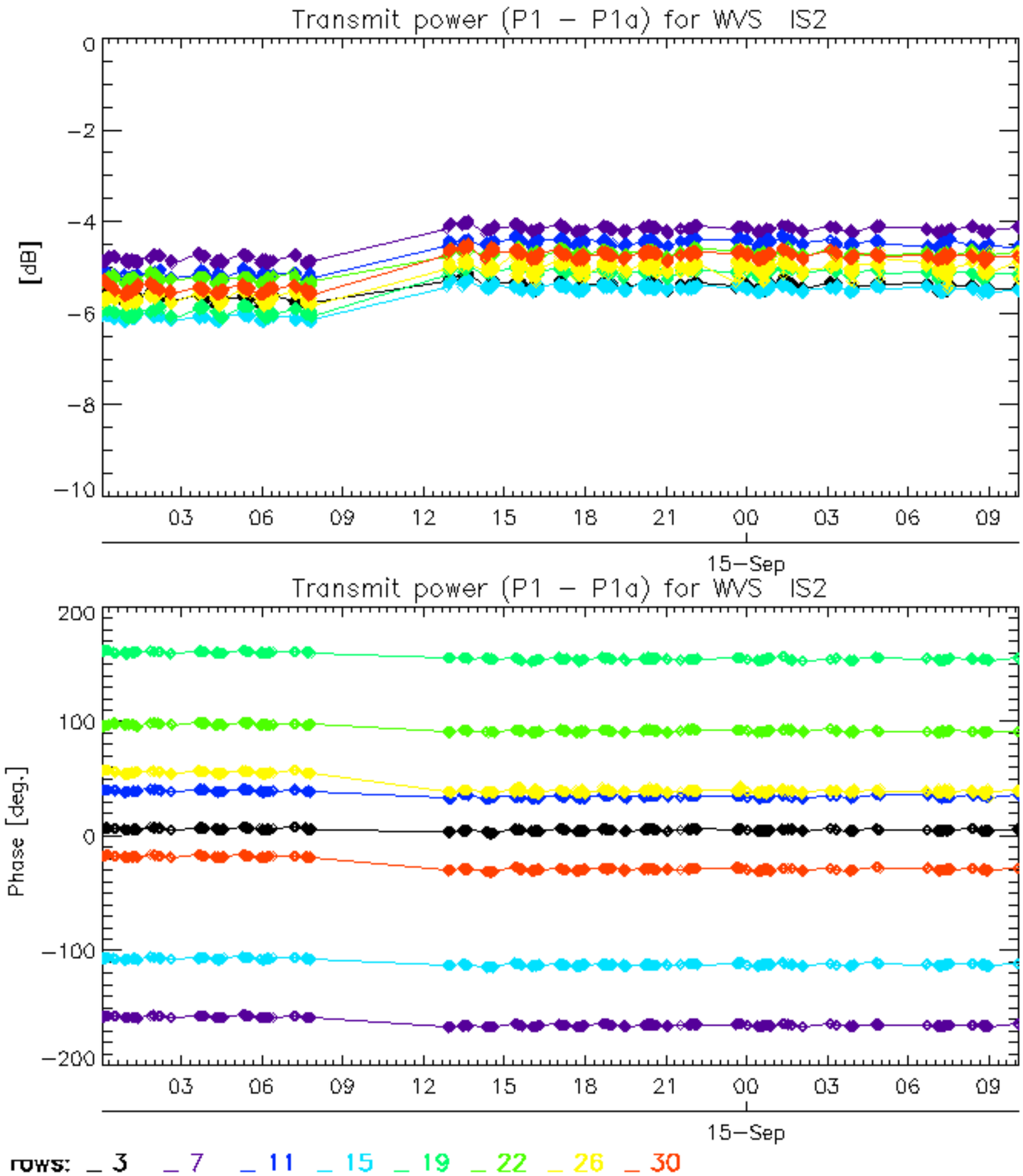
31
32


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


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
03
06
09
12
15
18
21
00
03
15–Sep
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
03
06
09
12
15
18
21
00
03
15–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]
11
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
03
06
09
12
15
18
21
00
03
06
09
15–Sep
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
03
06
09
12
15
18
21
00
03
06
09
15–Sep
rows: 3 7 11 15 19 22 26 30

Preliminary report. Instrument unavailabilities are not yet reported