PRELIMINARY REPORT OF 051016

last update on Sun Oct 16 16:43:27 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 2005-10-15 00:00:00 to 2005-10-16 16:43:27

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	35	71	13	1	28
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	35	71	13	1	28
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	35	71	13	1	28
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	35	71	13	1	28

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	41	56	28	16	73
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	41	56	28	16	73
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	41	56	28	16	73
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	41	56	28	16	73

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	20051014 063530
H	20051015 060353

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
☒

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	-3.568574	0.055155	0.134890
7	P1	-2.946424	0.029957	0.244764
11	P1	-4.179512	0.103070	0.561051
15	P1	-5.986306	0.028488	-0.205930
19	P1	-3.144639	0.107120	0.009106
22	P1	-4.472825	0.020398	0.140508
26	P1	-4.385961	0.082954	0.537216
30	P1	-5.810696	0.226575	0.593145
3	P1	-15.778995	1.784563	1.667704
7	P1	-16.753031	4.370194	2.066688
11	P1	-17.474075	10.907907	6.039548
15	P1	-13.894731	8.058719	2.331838
19	P1	-13.632448	0.146180	0.171782
22	P1	-17.253454	21.733355	5.045724
26	P1	-17.504095	20.898058	6.062397
30	P1	-17.306793	8.709995	4.166824

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.852783	0.101431	-0.072447
7	P2	-22.656250	0.178769	-0.254227
11	P2	-16.516441	1.094359	-1.324715
15	P2	-7.225157	0.115171	0.017992
19	P2	-9.136656	0.166589	-0.127131
22	P2	-17.580738	0.187459	-0.696752
26	P2	-16.147226	0.118428	0.270488
30	P2	-19.571735	0.153107	-0.291614

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.181426	0.005196	-0.038417
7	P3	-8.181426	0.005196	-0.038417
11	P3	-8.181426	0.005196	-0.038417
15	P3	-8.181426	0.005196	-0.038417
19	P3	-8.181426	0.005196	-0.038417
22	P3	-8.181426	0.005196	-0.038417
26	P3	-8.181426	0.005196	-0.038417
30	P3	-8.181426	0.005196	-0.038417

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	-3.458655	0.226164	-0.960194
7	P1	-2.915205	0.062466	0.360108
11	P1	-3.040410	0.194363	0.929312
15	P1	-3.431980	0.027356	0.214703
19	P1	-3.323156	0.050549	-0.089689
22	P1	-5.124630	0.122732	-0.048964
26	P1	-5.808419	0.402106	0.255732
30	P1	-5.215118	0.249425	0.105572
3	P1	-11.522906	0.380847	0.476488
7	P1	-11.208836	18.787645	5.680102
11	P1	-11.992782	37.112984	8.880468
15	P1	-12.287247	31.984079	7.561173
19	P1	-15.342954	0.208213	-0.501568
22	P1	-21.078882	3.708111	3.304347
26	P1	-17.420565	4.373160	1.332299
30	P1	-19.256659	1.675057	2.086796

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.663099	0.051213	-0.199489
7	P2	-22.954916	0.188626	-0.465245
11	P2	-11.527695	0.491454	-1.168475
15	P2	-4.915175	0.043321	0.136004
19	P2	-6.807939	0.104457	-0.391797
22	P2	-7.933969	0.162320	-0.839233
26	P2	-23.872326	0.042894	0.074005
30	P2	-22.084988	0.053632	0.116362

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.023668	0.002895	-0.039382
7	P3	-8.023735	0.002898	-0.039628
11	P3	-8.023563	0.002906	-0.040035
15	P3	-8.023642	0.002897	-0.039774
19	P3	-8.023811	0.002902	-0.039555
22	P3	-8.023562	0.002905	-0.039672
26	P3	-8.023867	0.002895	-0.039630
30	P3	-8.023680	0.002906	-0.039545

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	0.000543962
	stdev	1.78773e-07
MEAN Q	mean	0.000531823
	stdev	2.18463e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136307
	stdev	0.00111233
STDEV Q	mean	0.136639
	stdev	0.00112811

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005101[456]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_WSM_1PNPDE20051014_011413_000003542041_00346_18937_3867.N1	0	23
ASA_WSM_1PNPDE20051014_175039_000002012041_00356_18947_3964.N1	0	1
ASA_WSM_1PNPDE20051014_185457_000002312041_00357_18948_4242.N1	0	52
ASA_WSM_1PNPDE20051014_185458_000002312041_00357_18948_3963.N1	0	52
ASA_WSM_1PNPDE20051015_182654_000002262041_00371_18962_4160.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
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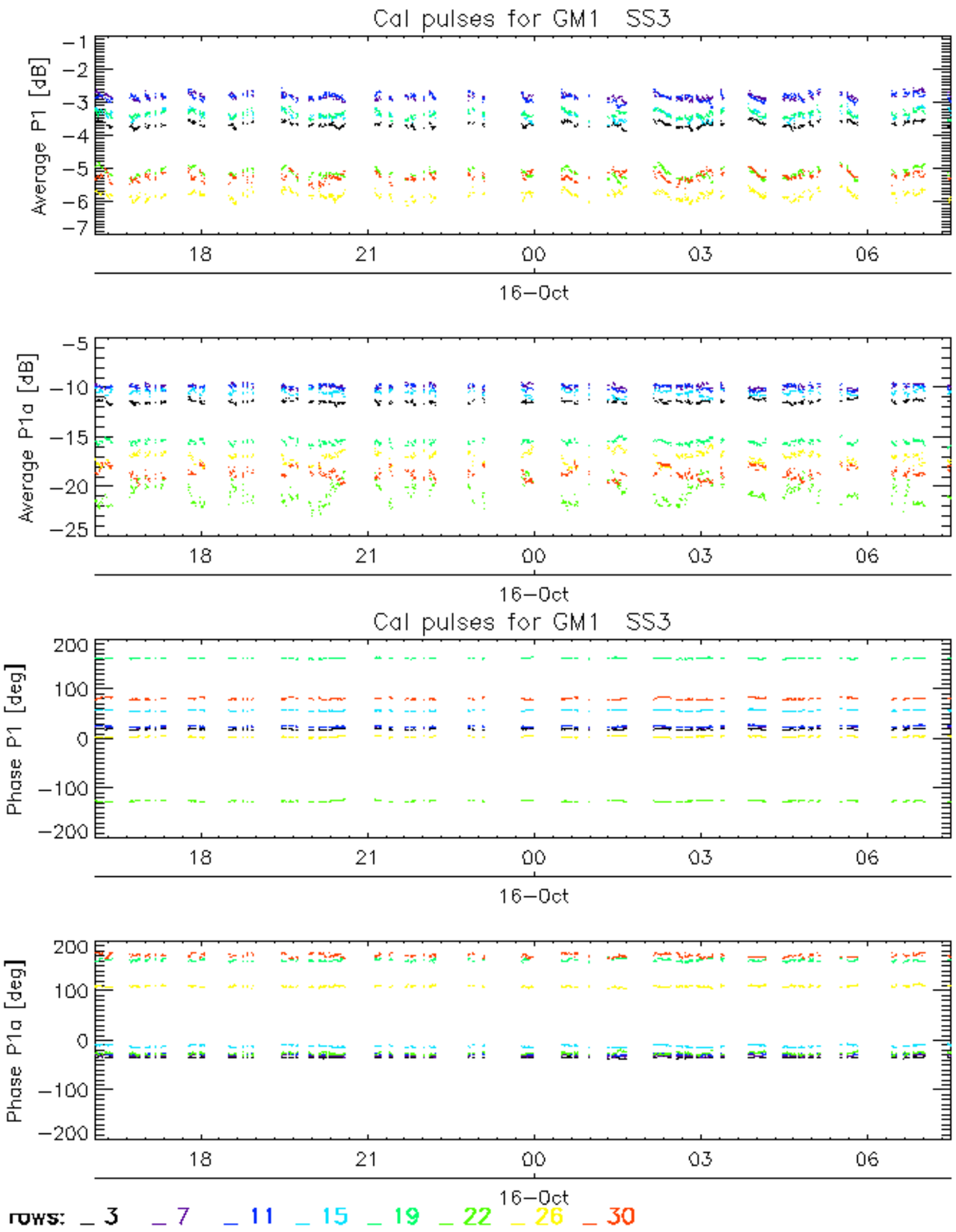
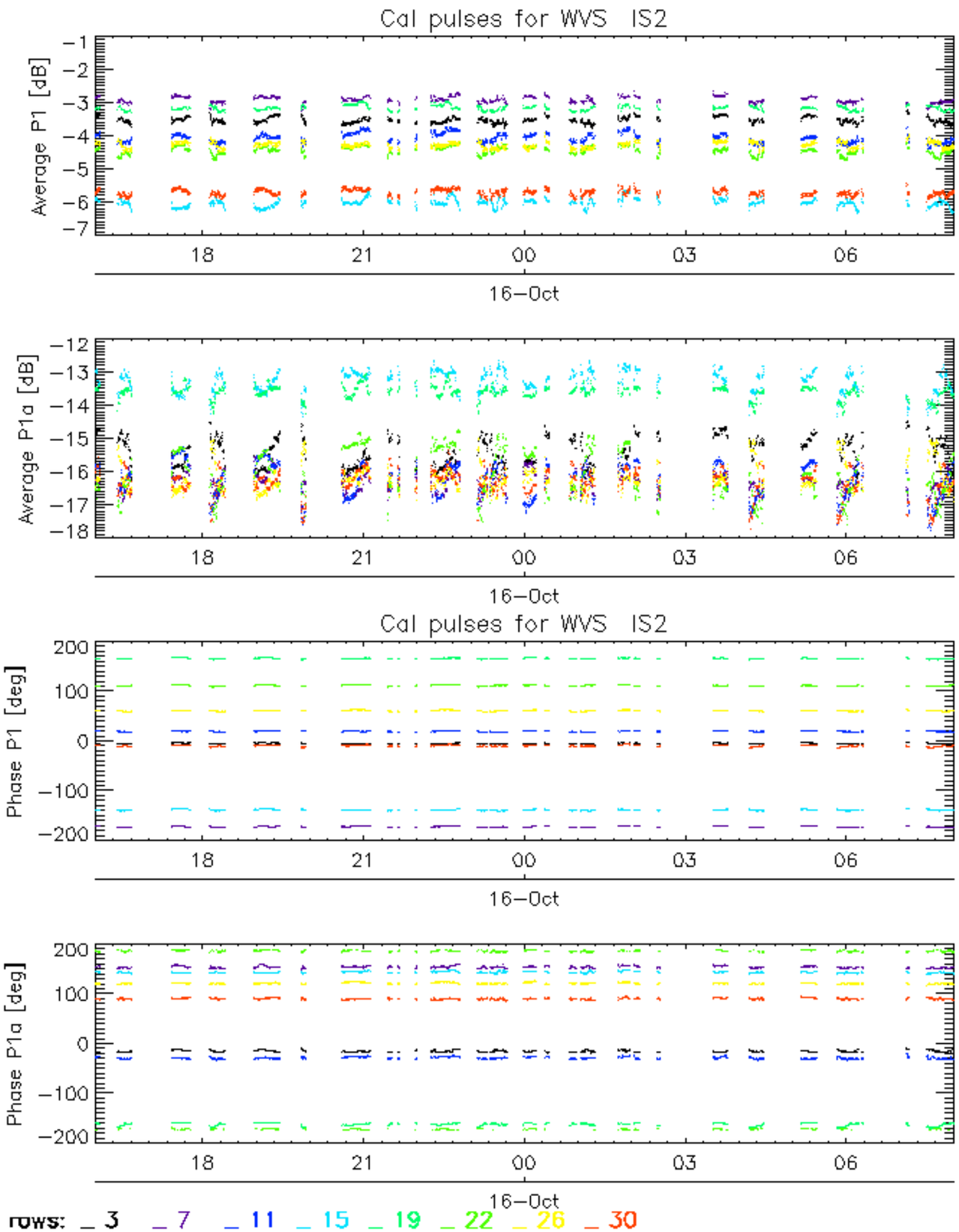
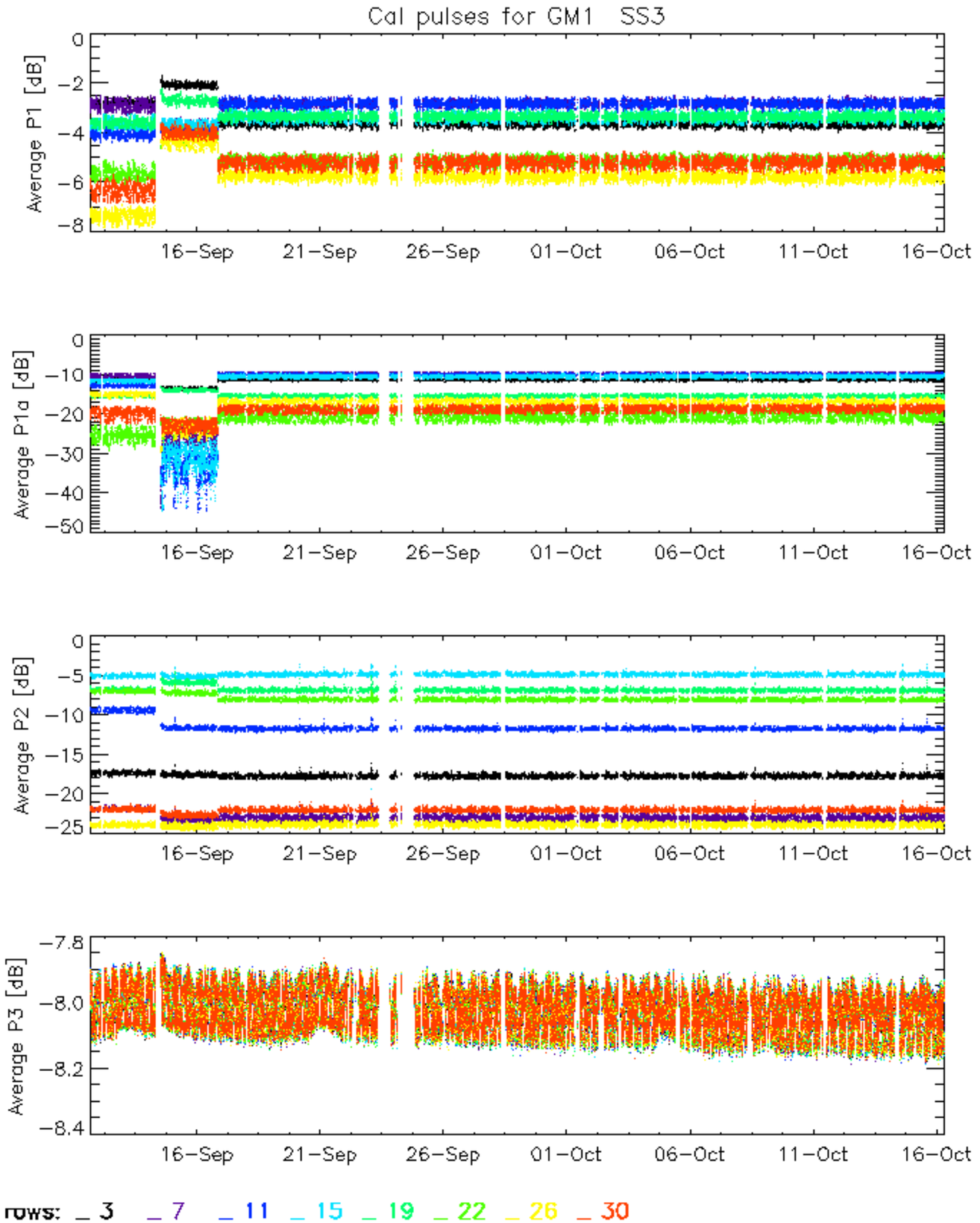
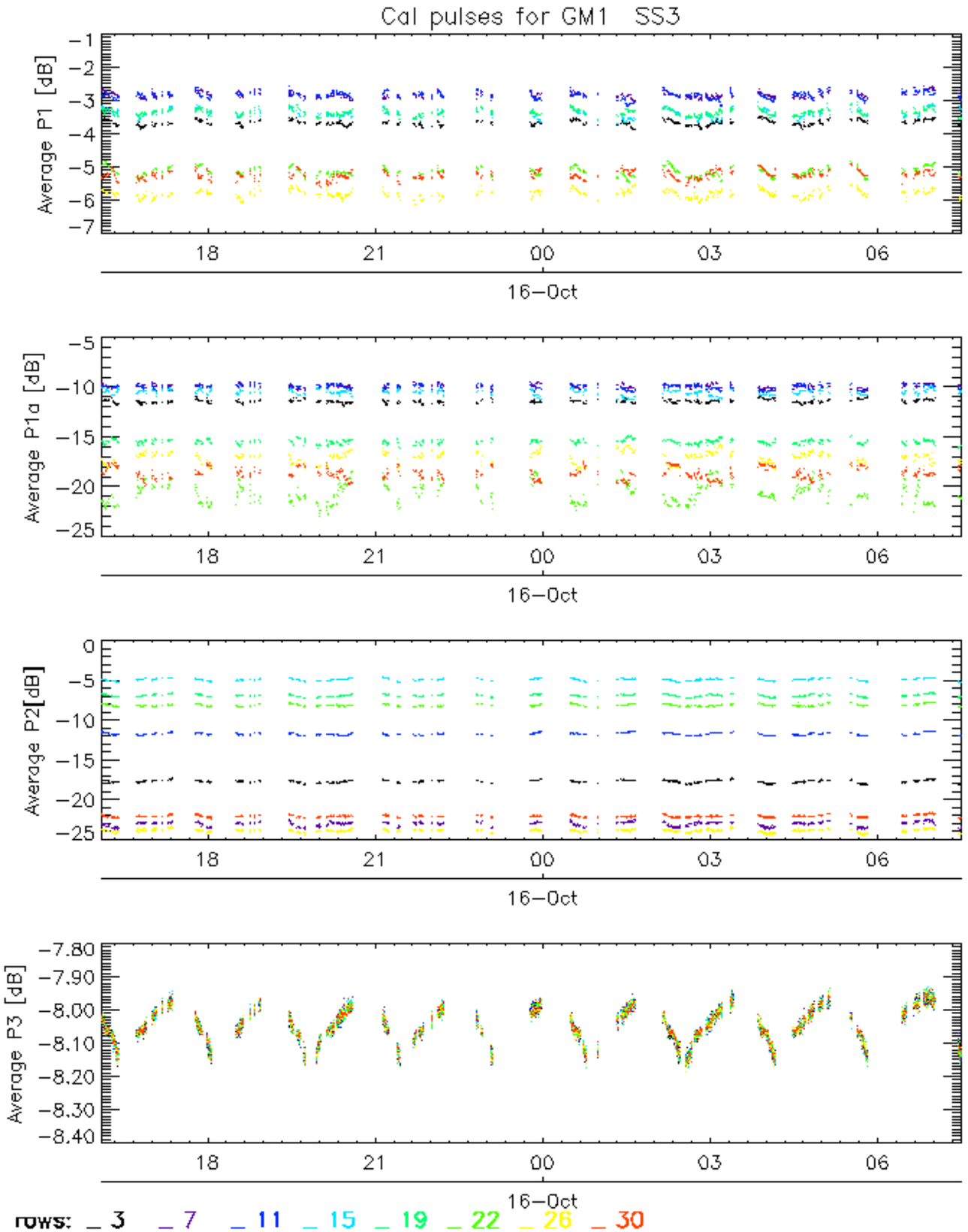
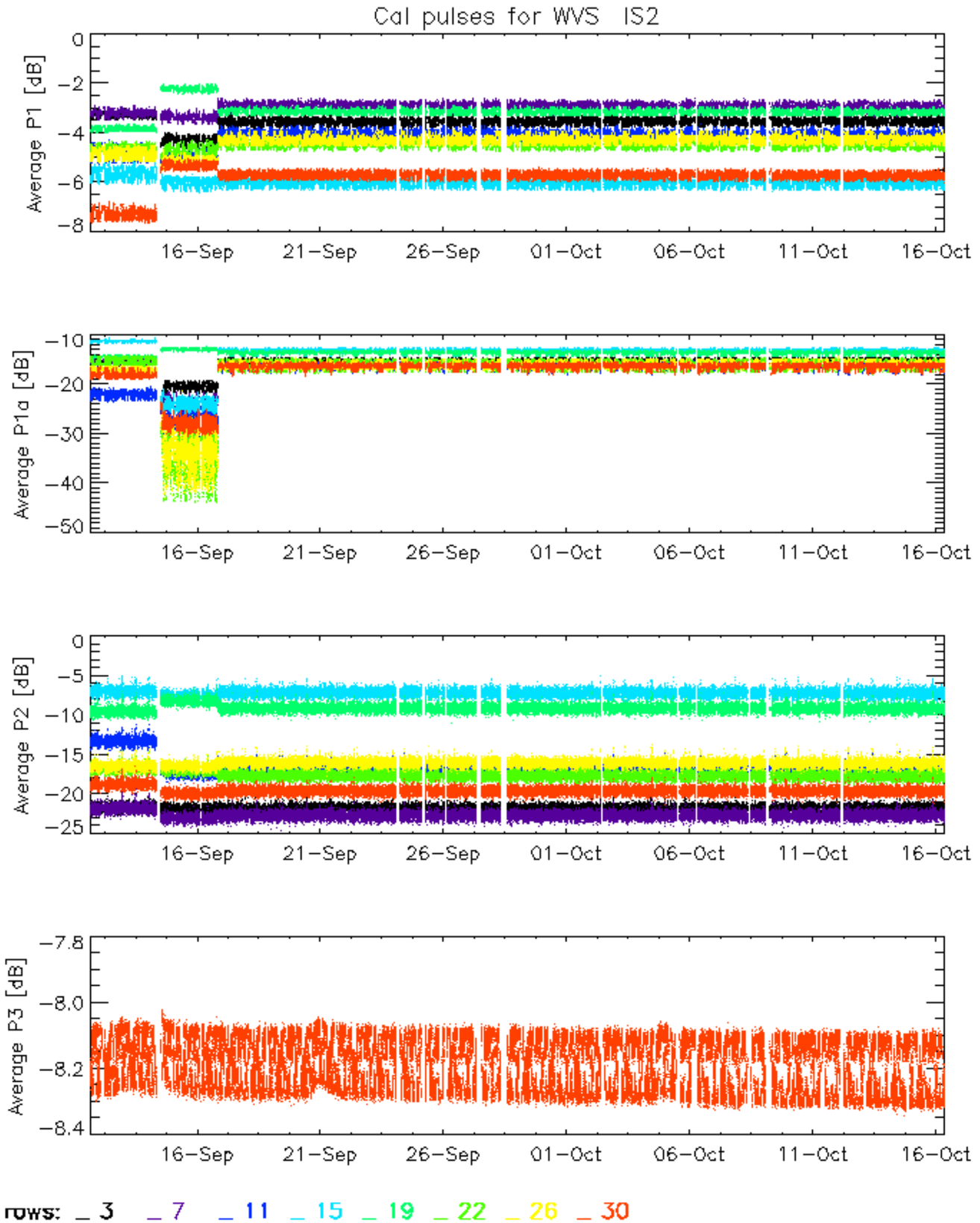
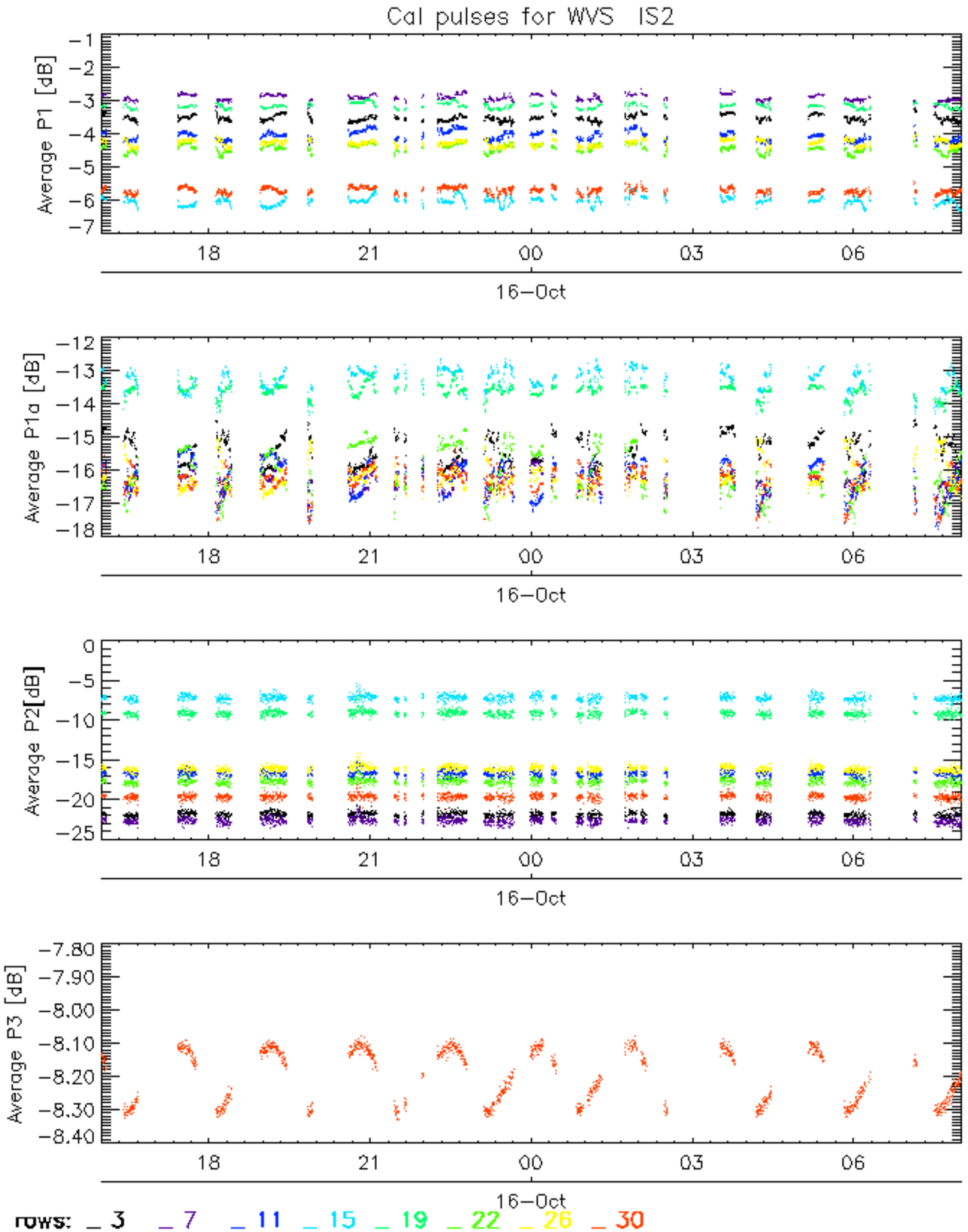

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
16−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
16−Oct
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
16−Oct
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
16−Oct
rows: _ 3 _ 7 _ 11 _ 15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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
16−Oct
Average P1a [dB]
−12
−13
−14
−15
−16
−17
−18
18
21
00
03
06
16−Oct
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
16−Oct
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
16−Oct
rows: 3 7 11 15 19 22 26 30

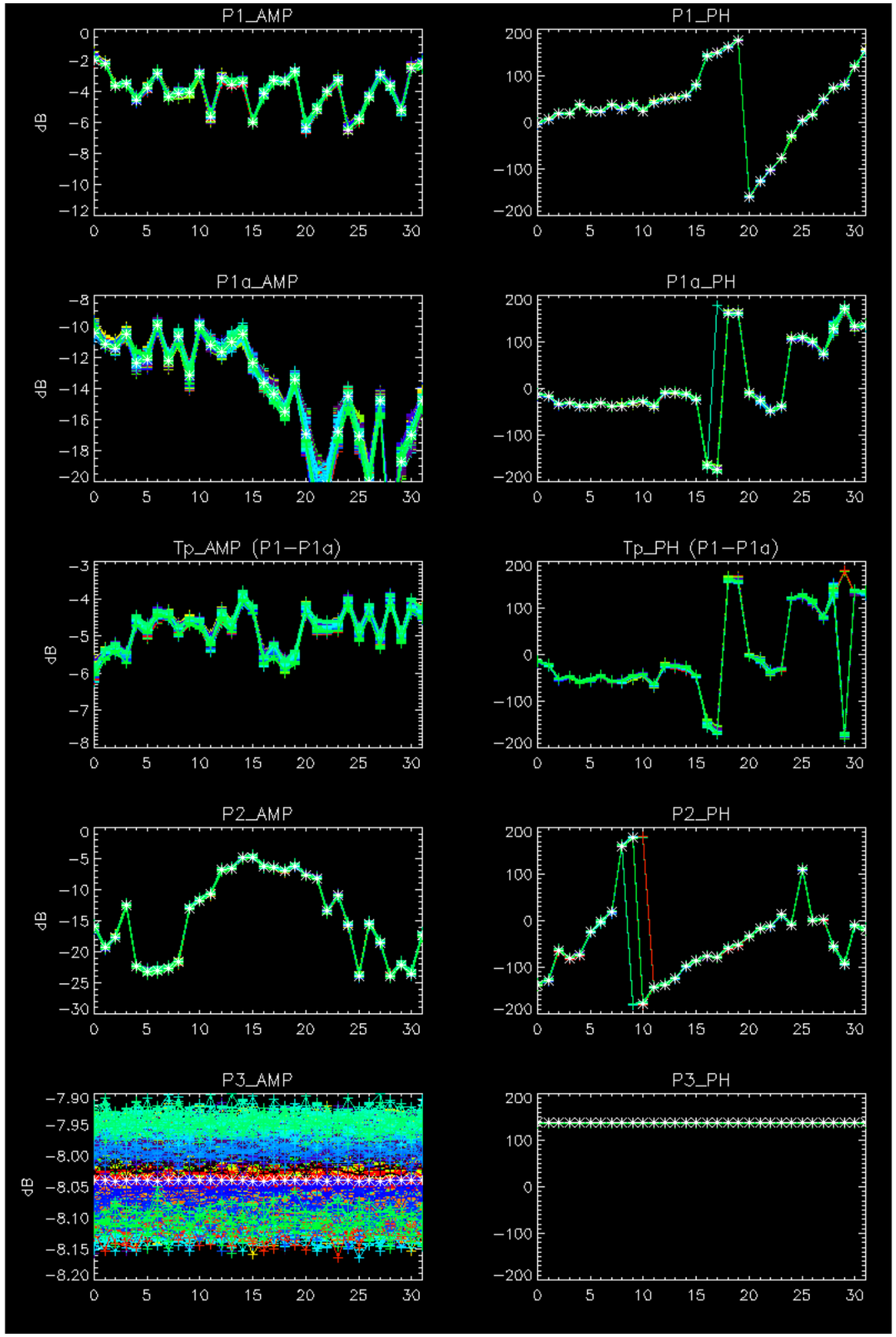

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
Average P1a [dB]
0
−10
−20
−30
−40
−50
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30

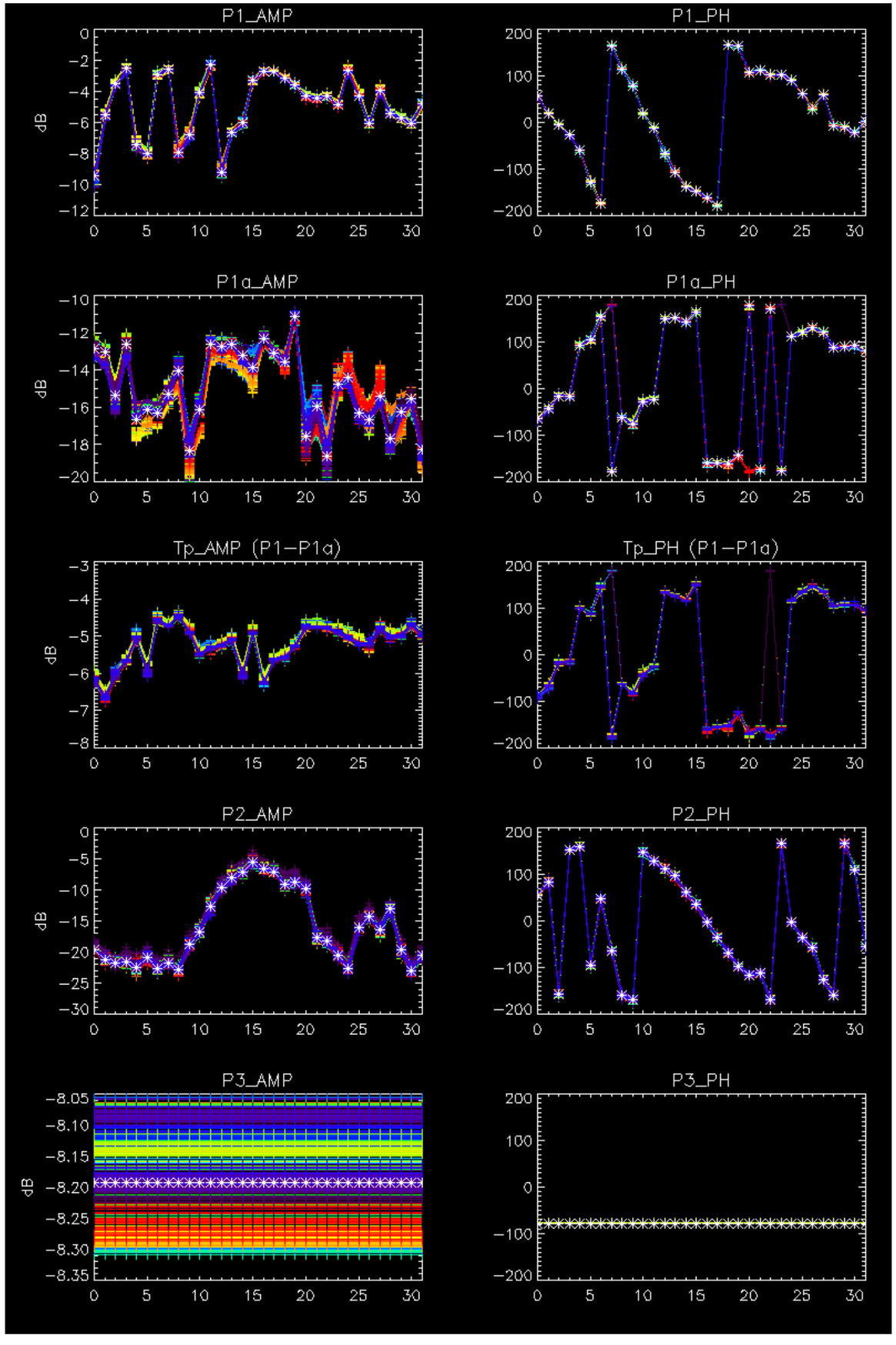

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
16−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
16−Oct
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
16−Oct
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
16−Oct
rows: _ 3 _ 7 _ 11 _ 15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


Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
Average P1a [dB]
−10
−20
−30
−40
−50
Average P2 [dB]
−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
21
00
03
06
16−Oct
Average P1a [dB]
−12
−13
−14
−15
−16
−17
−18
18
21
00
03
06
16−Oct
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
16−Oct
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
16−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

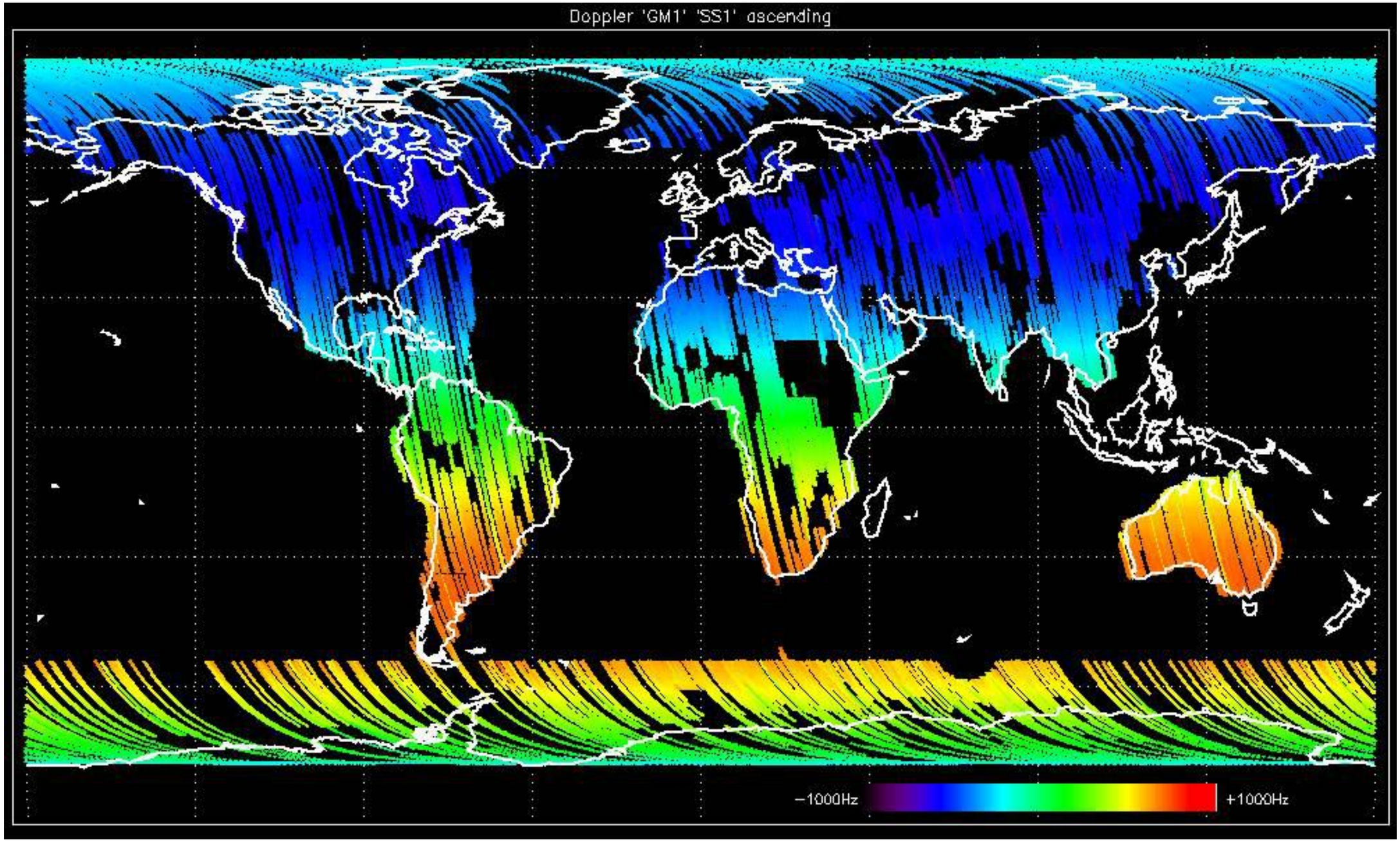
No anomalies observed.

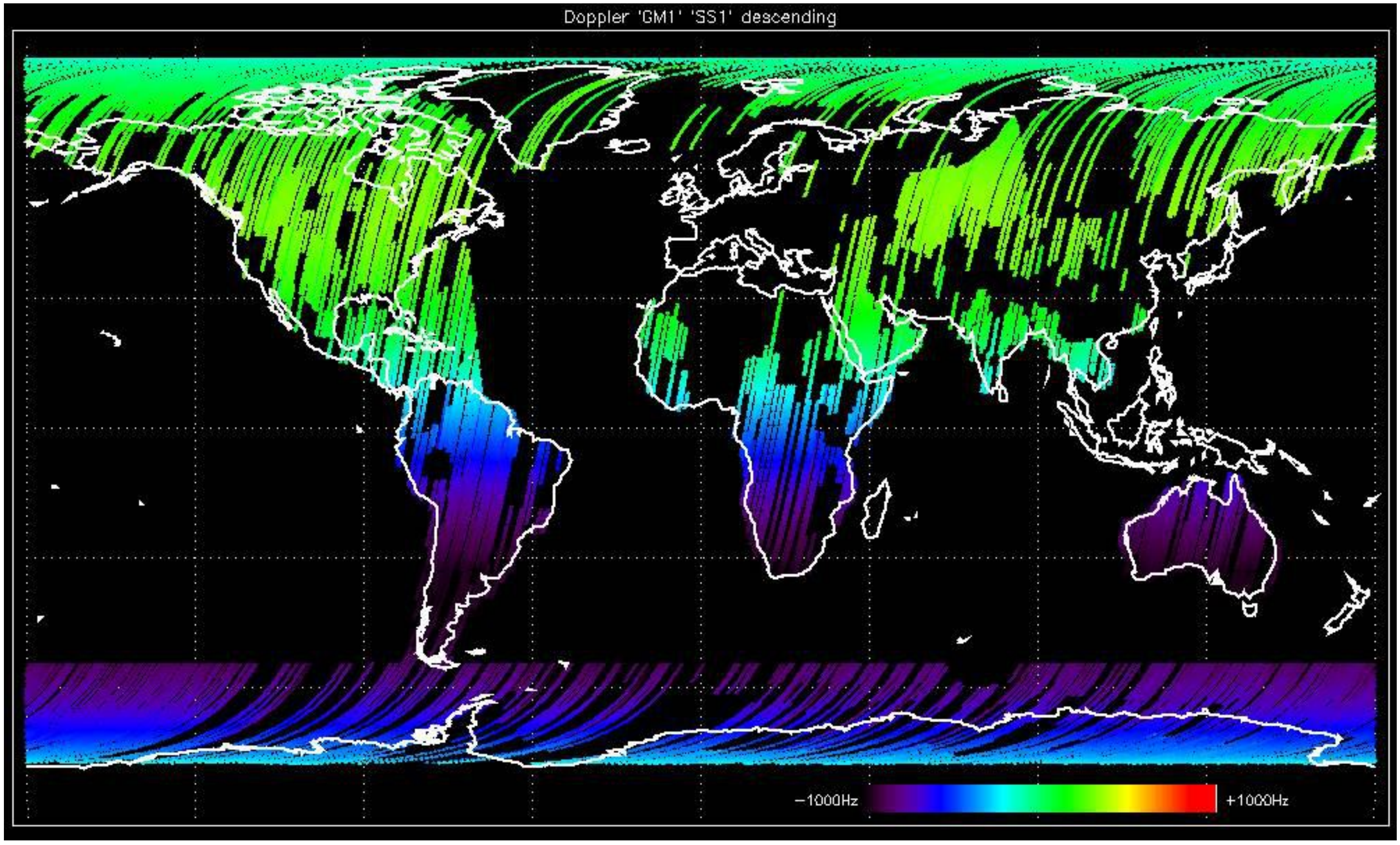

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

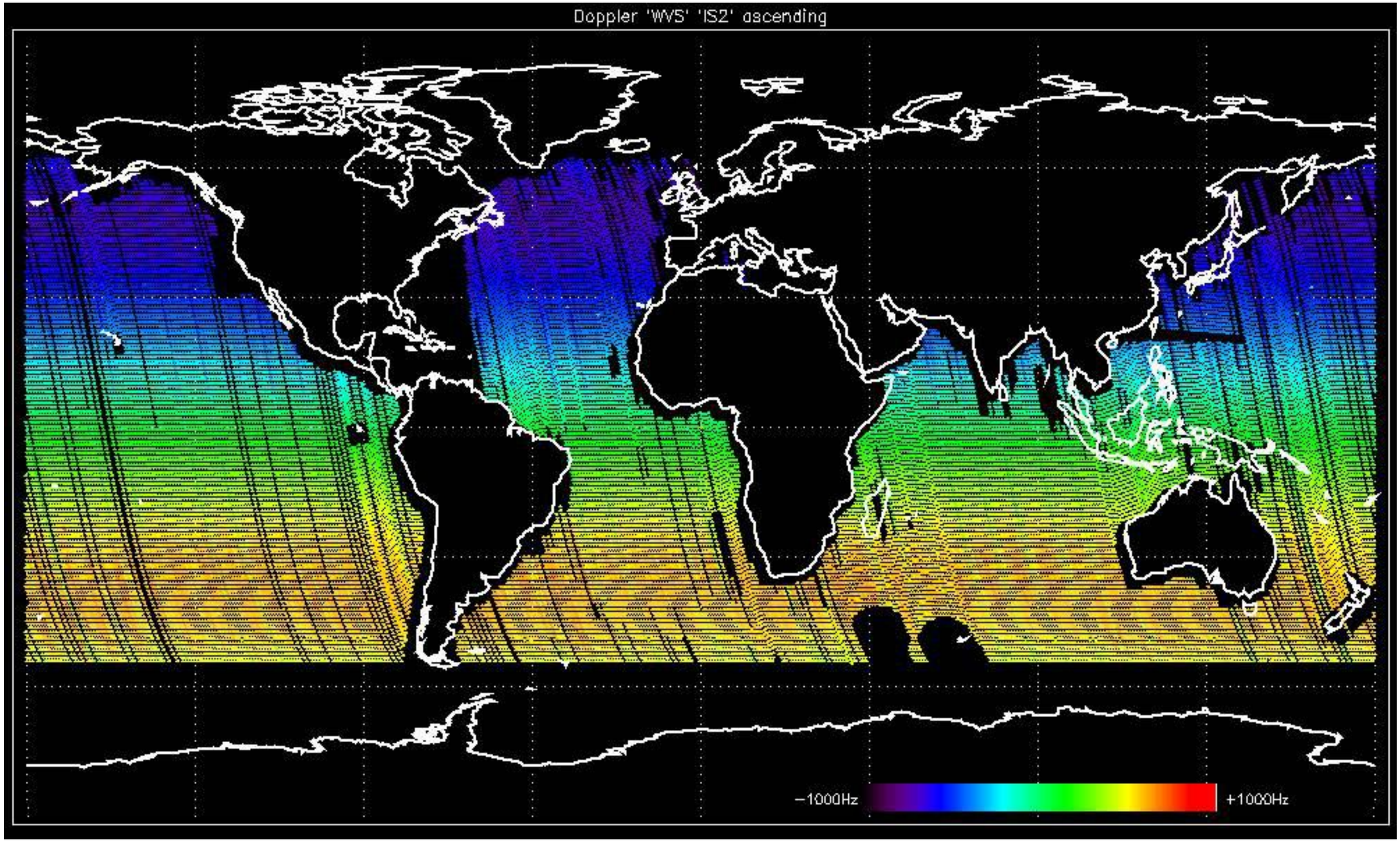

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

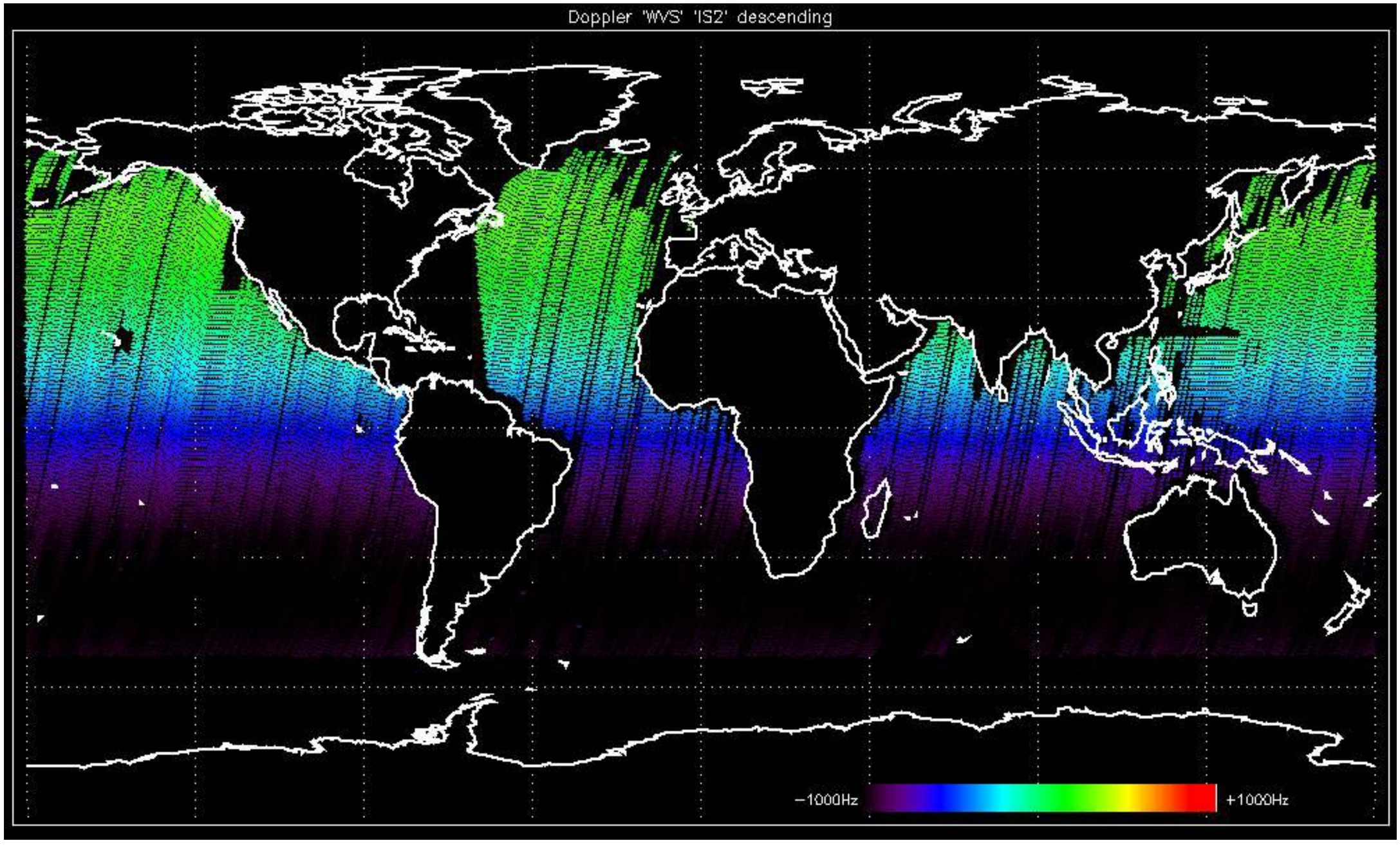
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

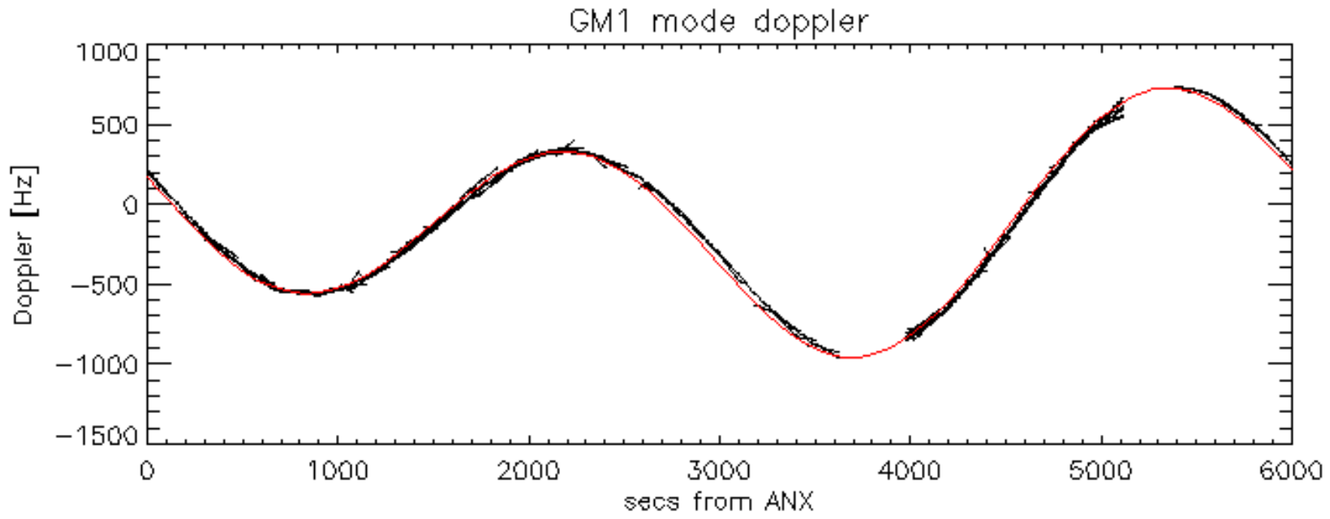
Preliminary report.The data is not yet controled

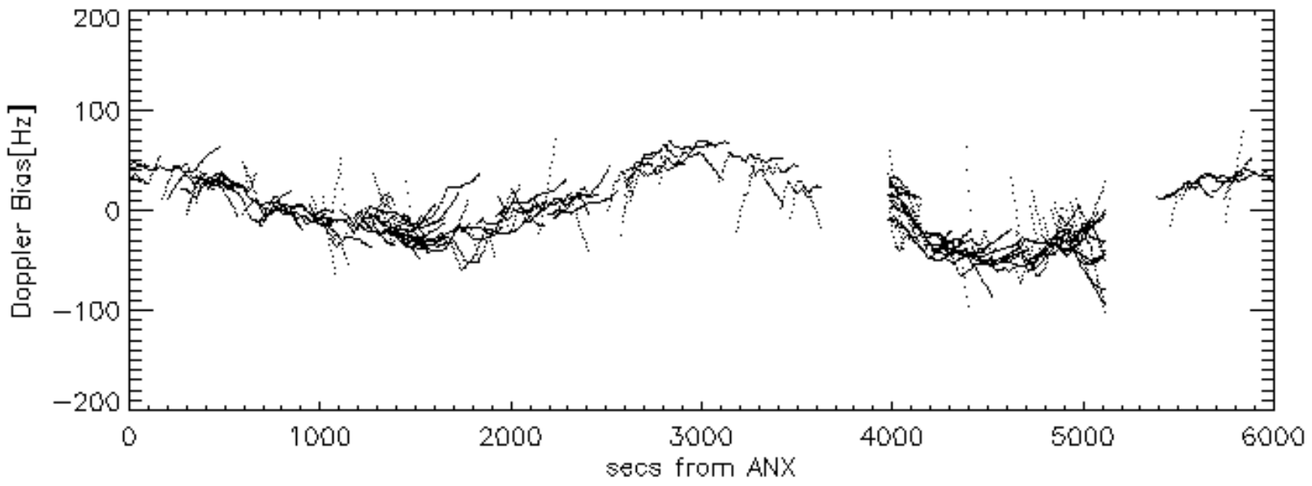

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

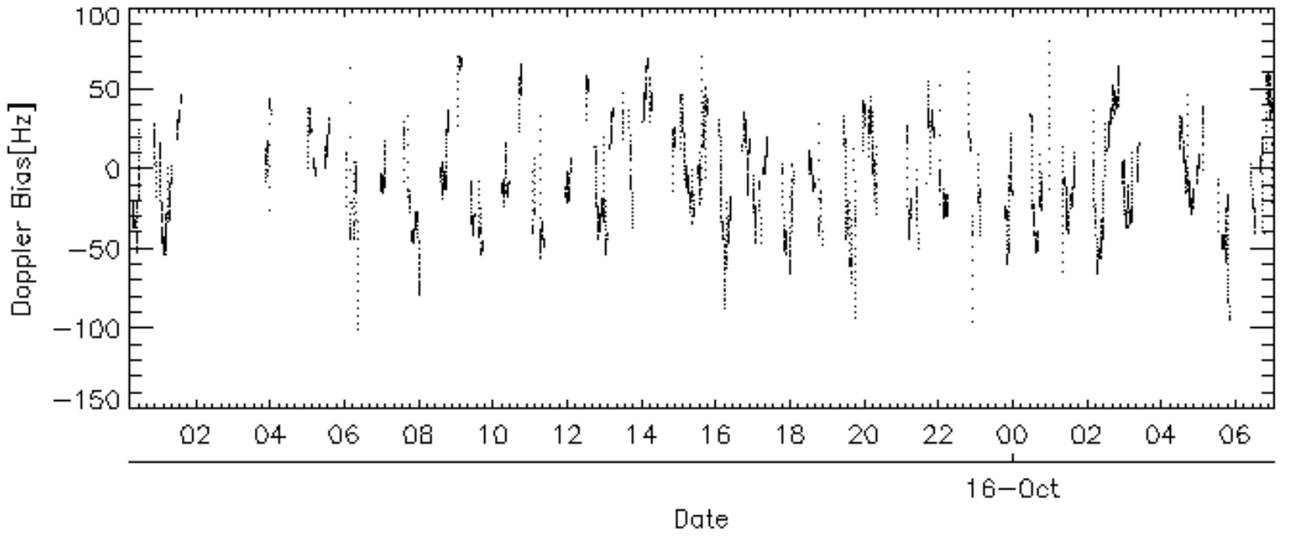

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

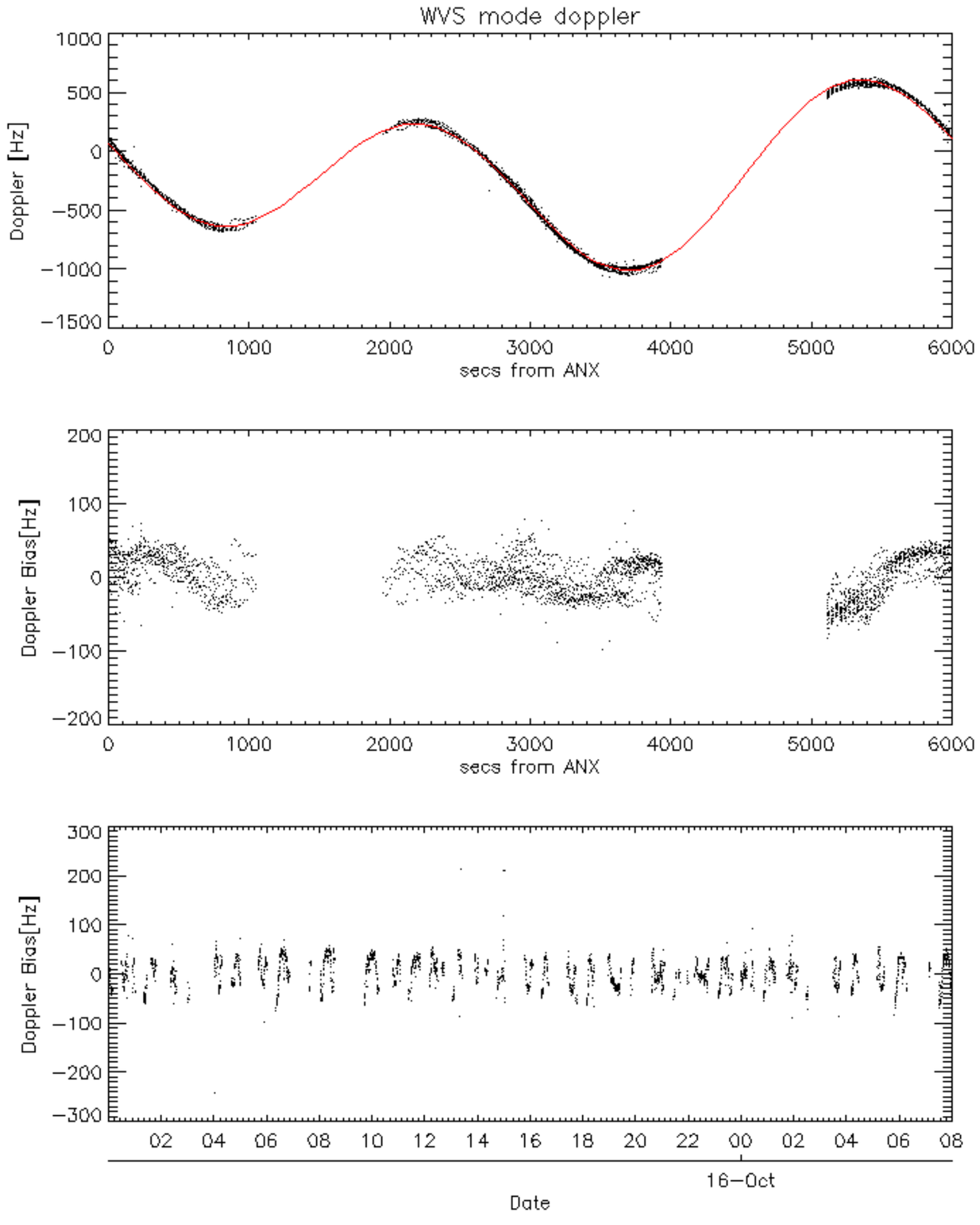

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

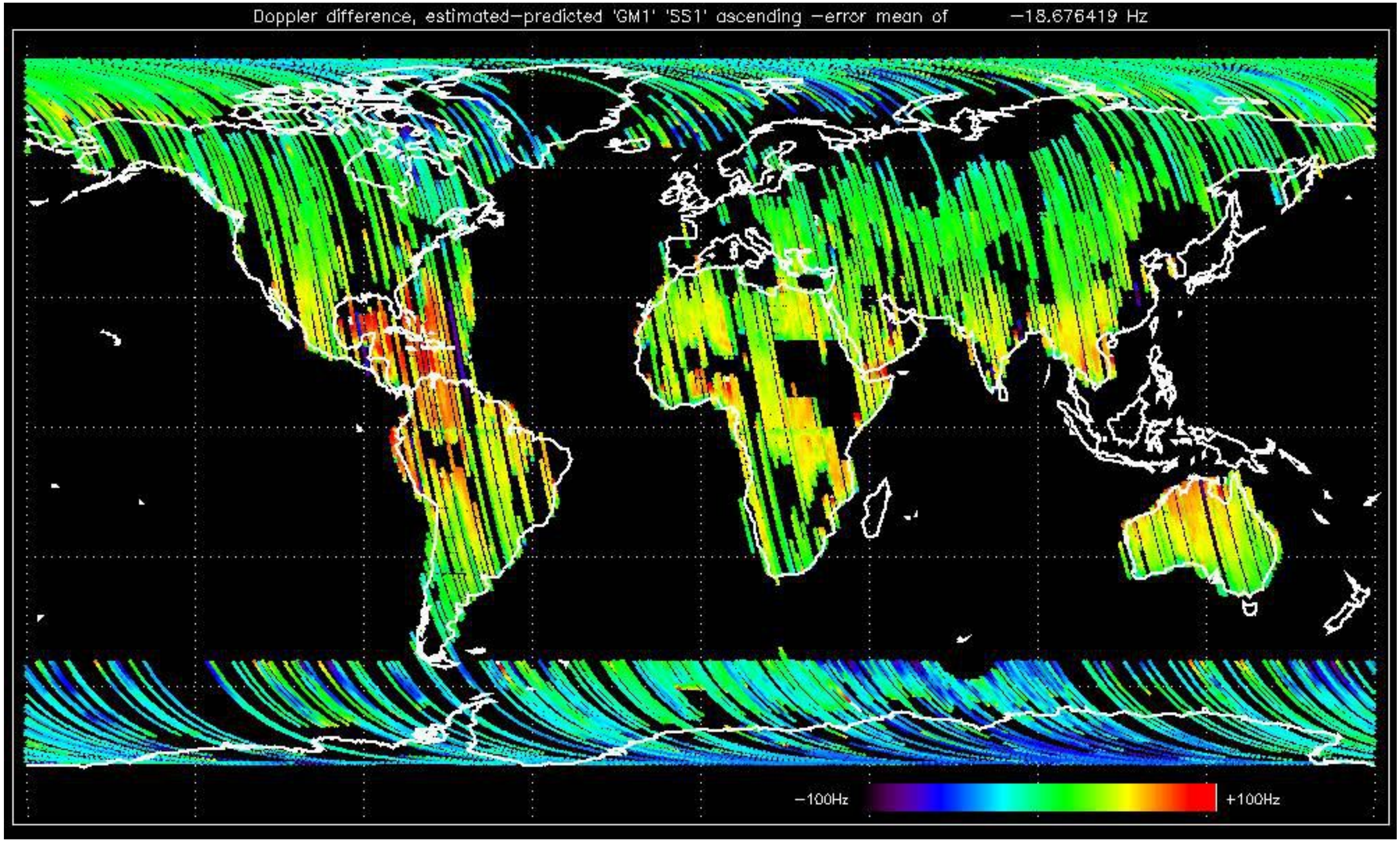

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

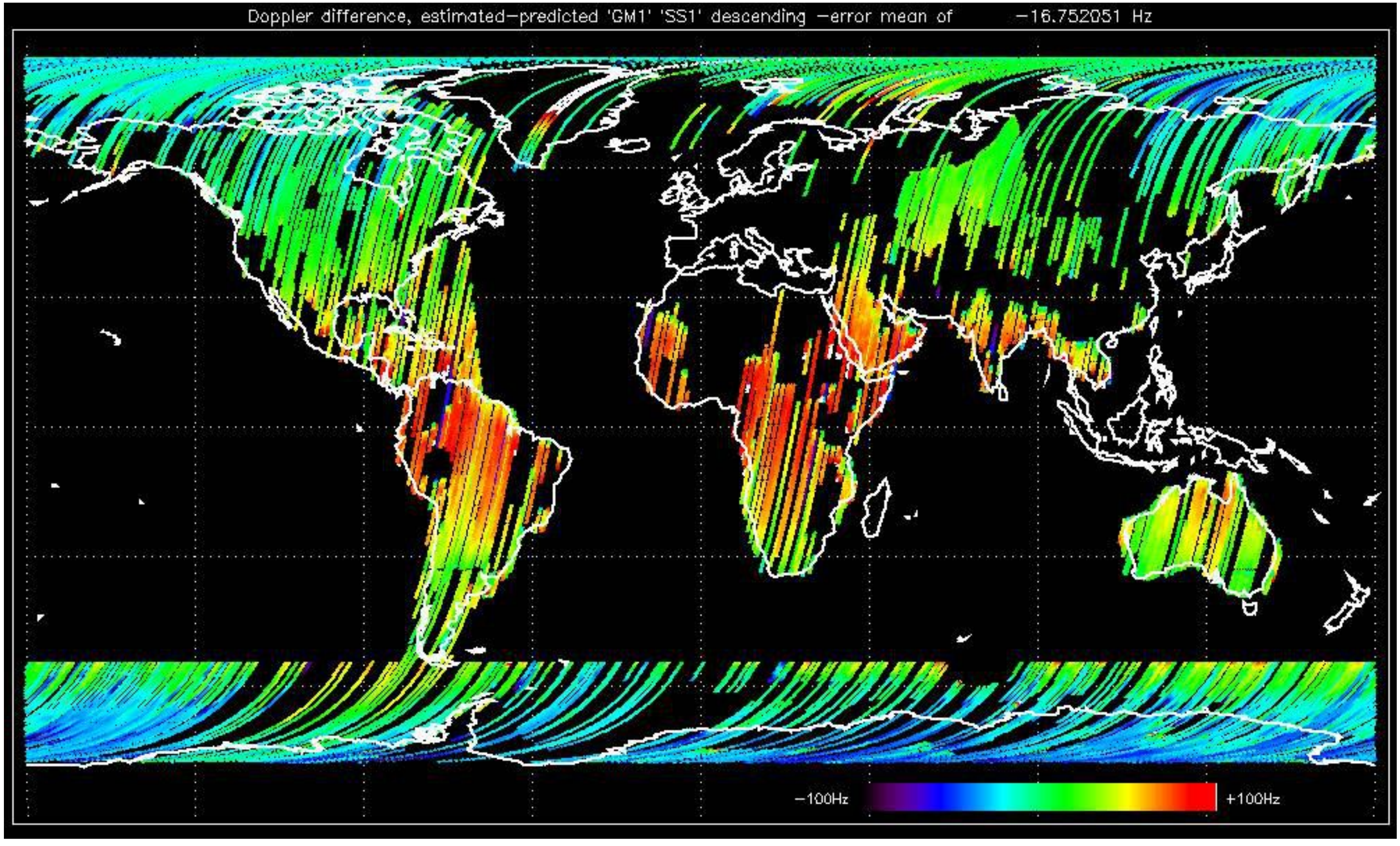

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

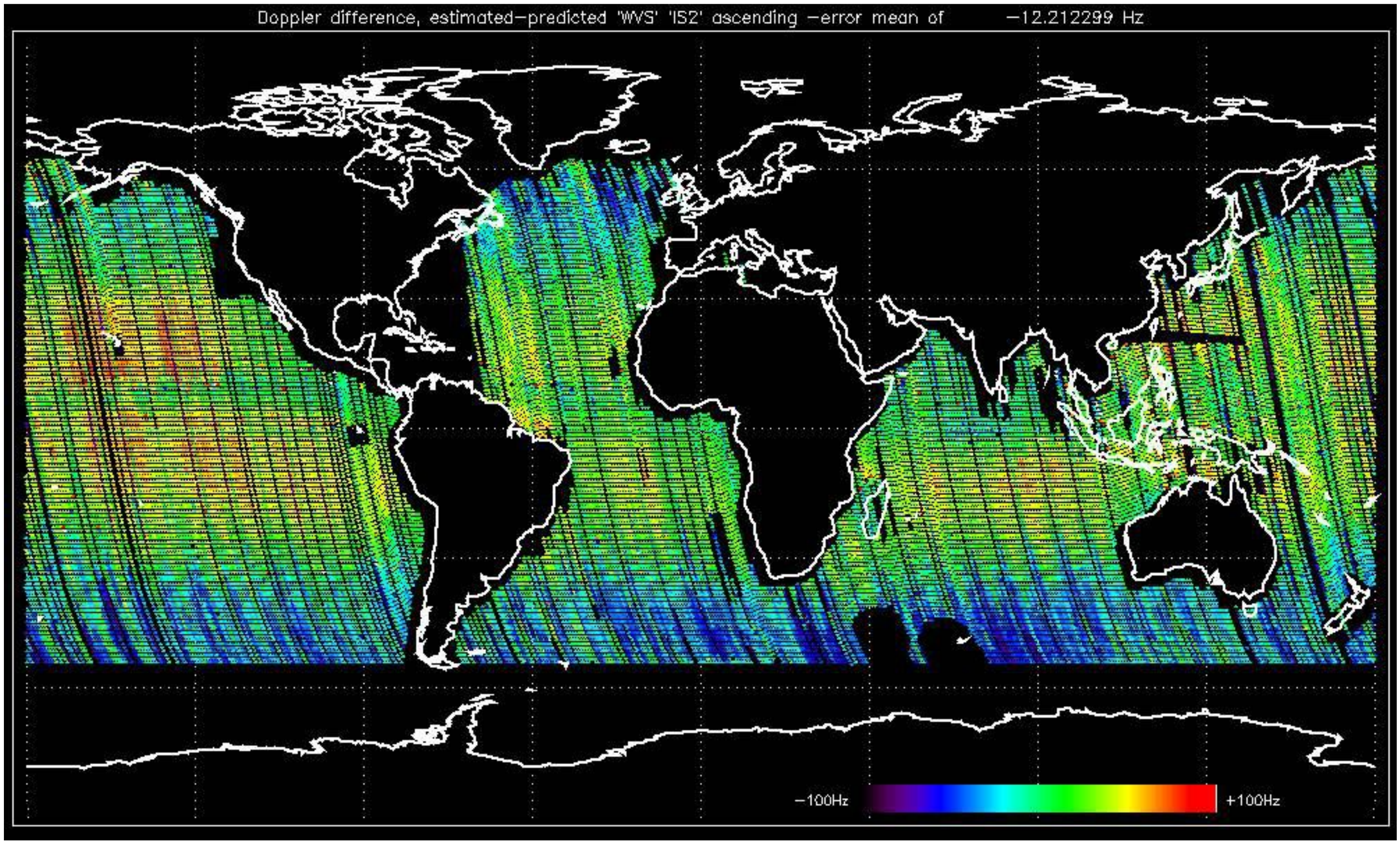

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

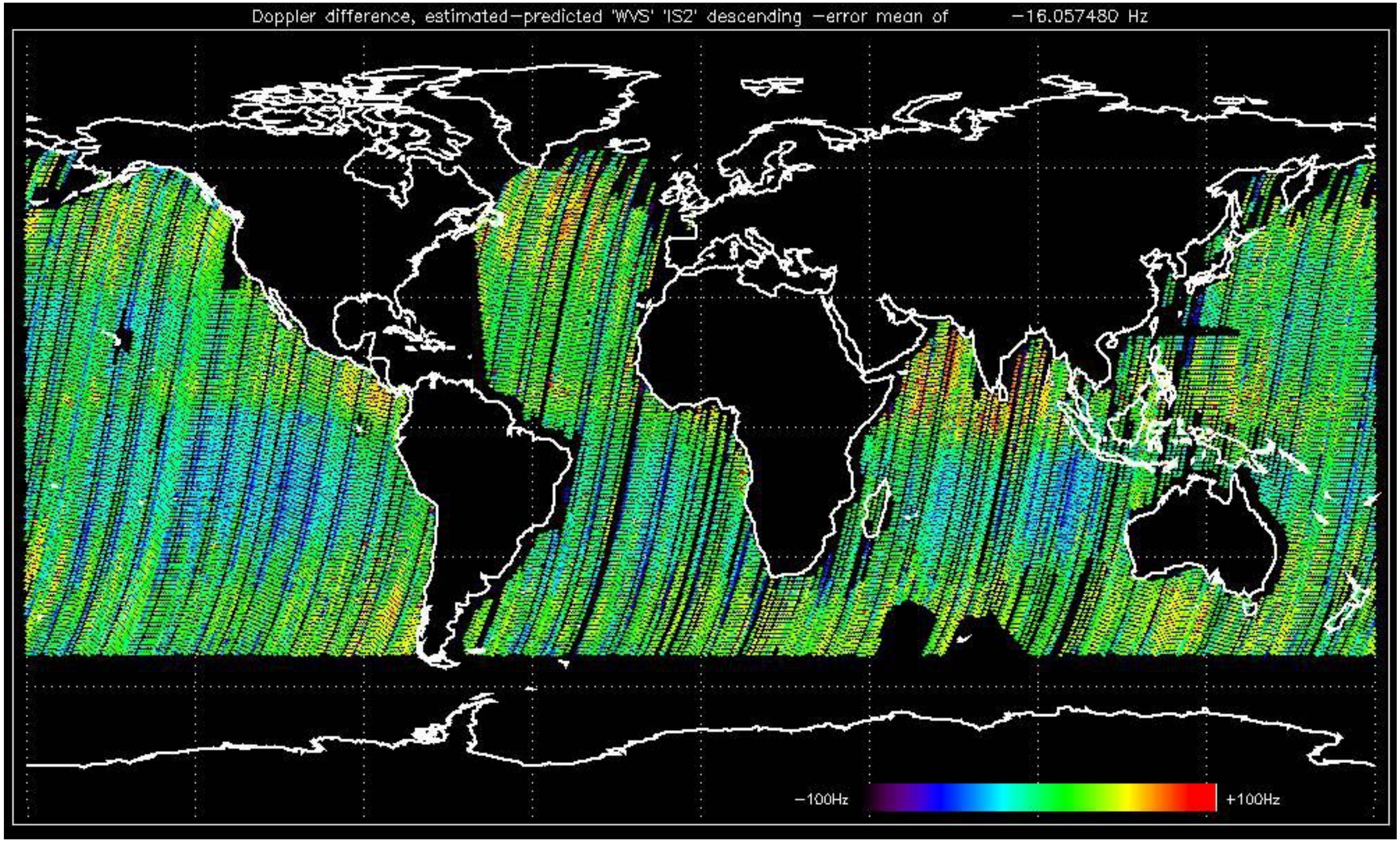

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
16−Oct
Date


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
16−Oct
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.676419 Hz
−100Hz
+100Hz

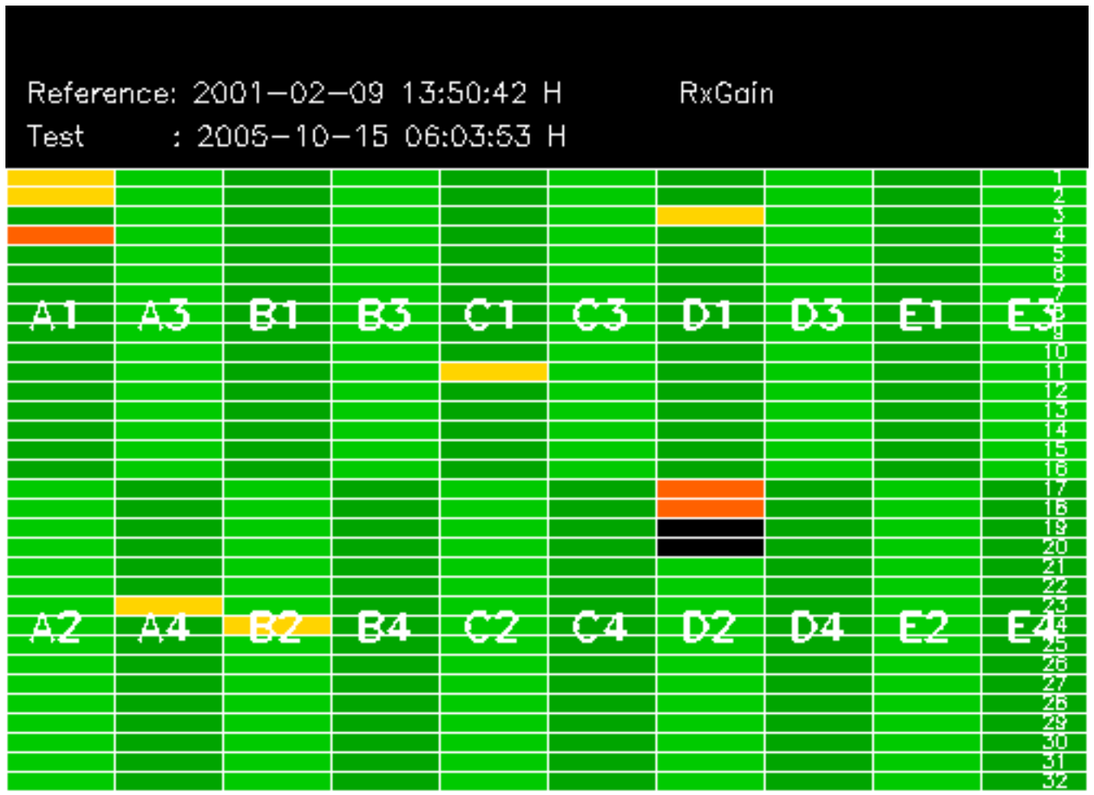

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −16.752051 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −12.212299 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −16.057480 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2005-10-15 06:03:53 H
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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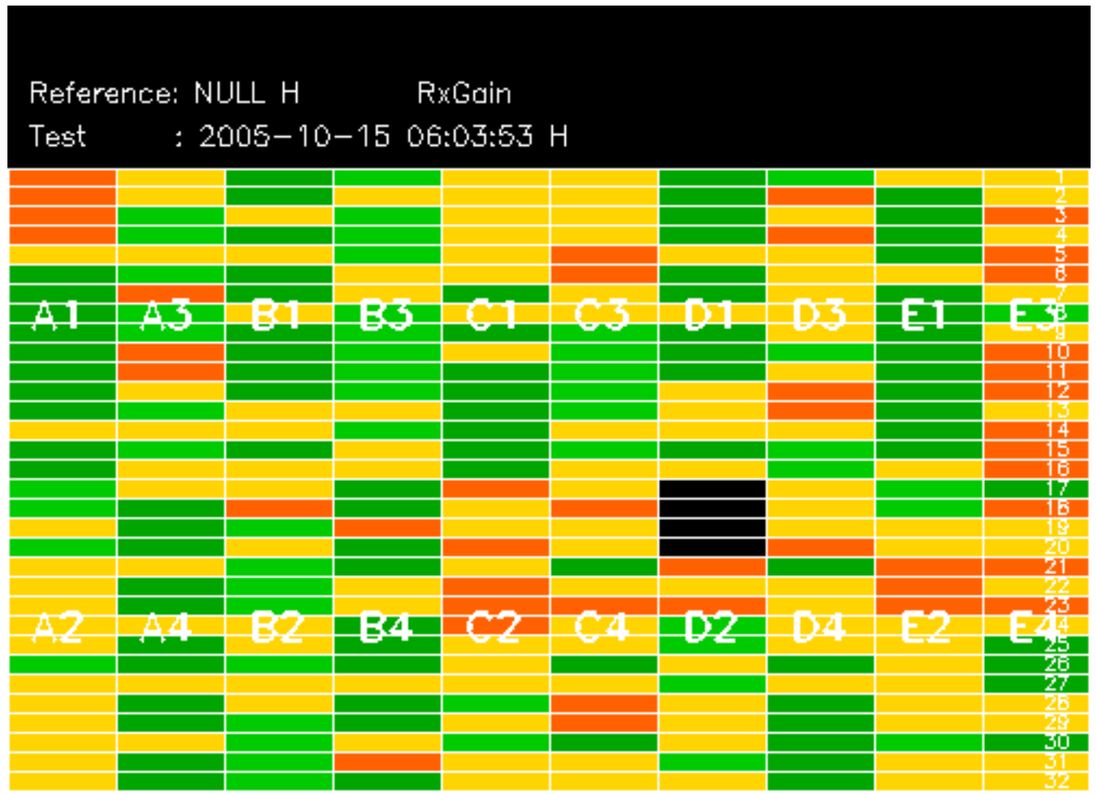
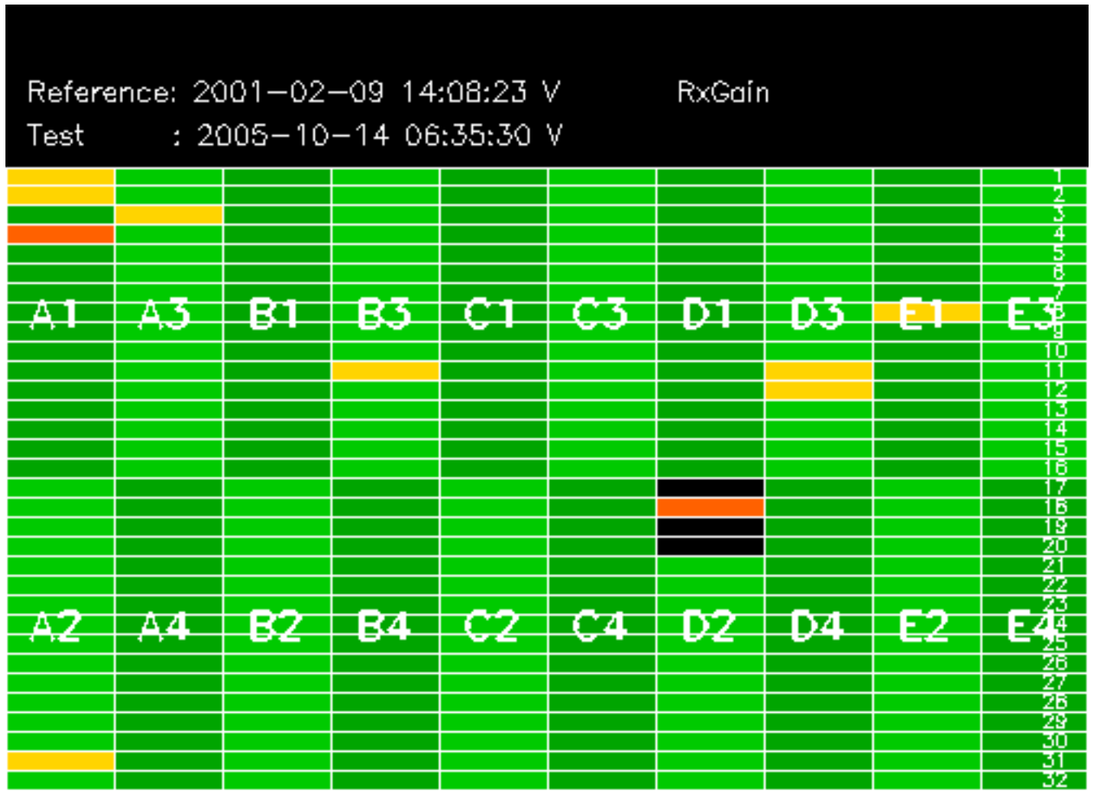

Reference: NULL H RxGain
Test : 2005-10-15 06:03:53 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2005-10-14 06:35:30 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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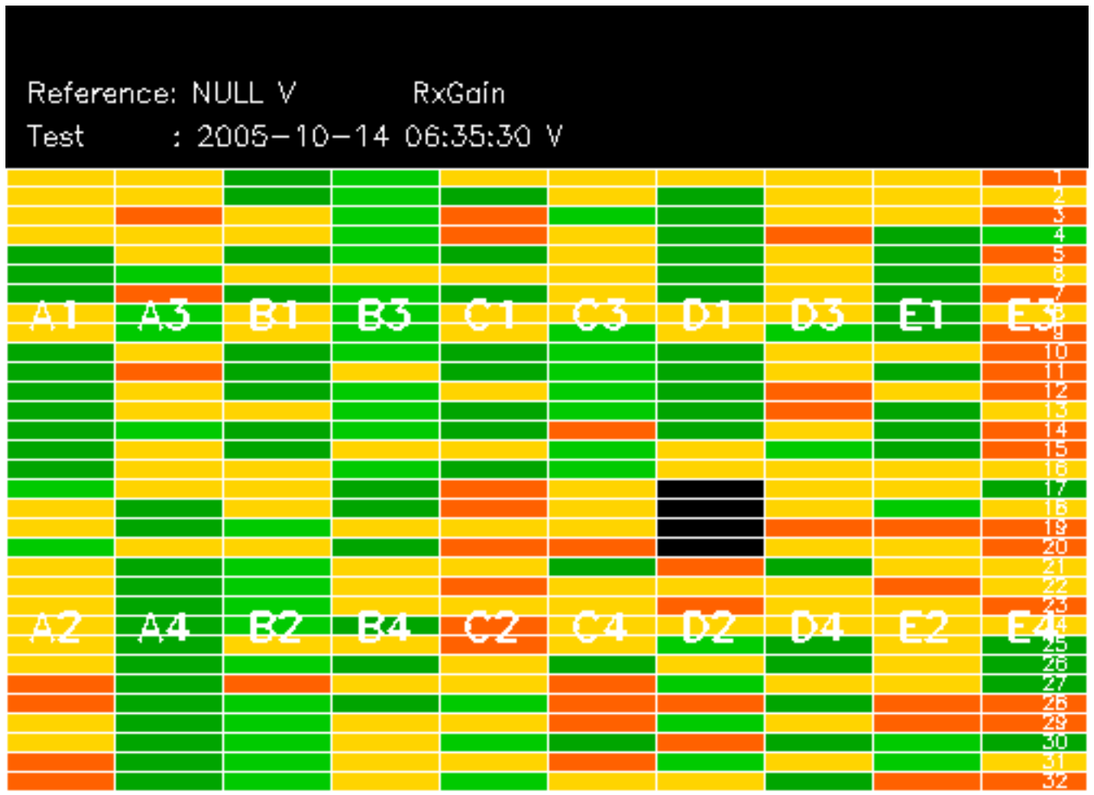
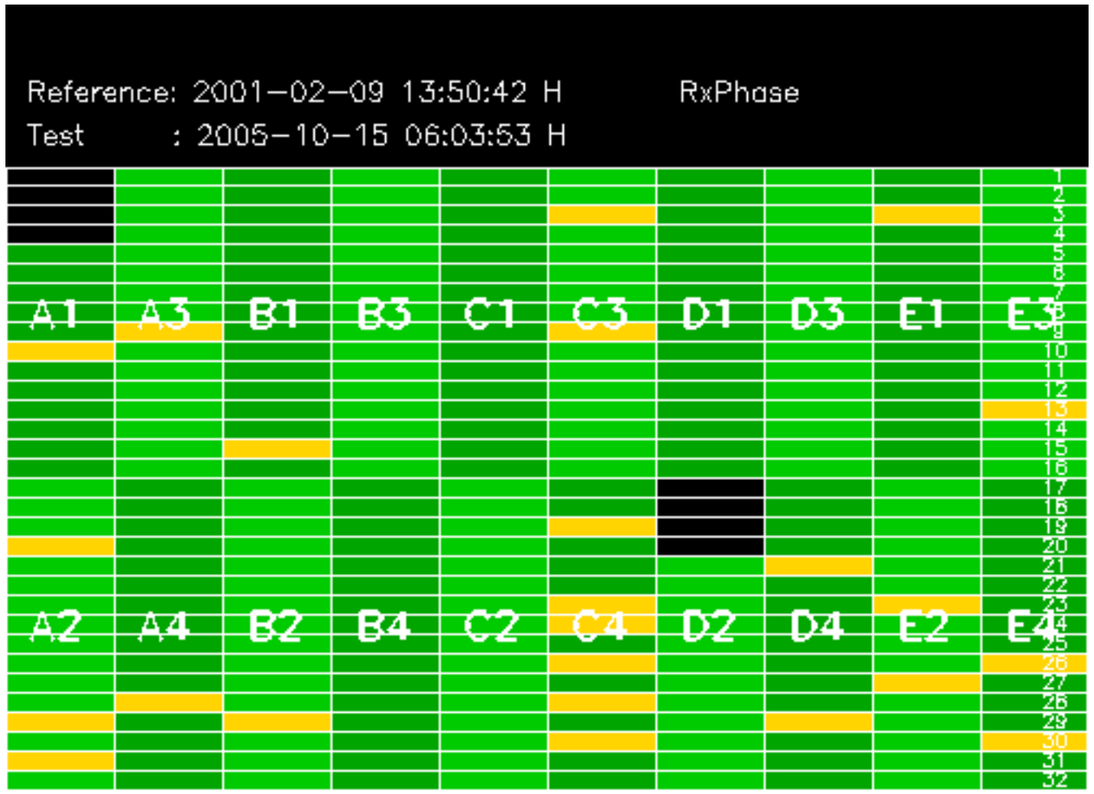
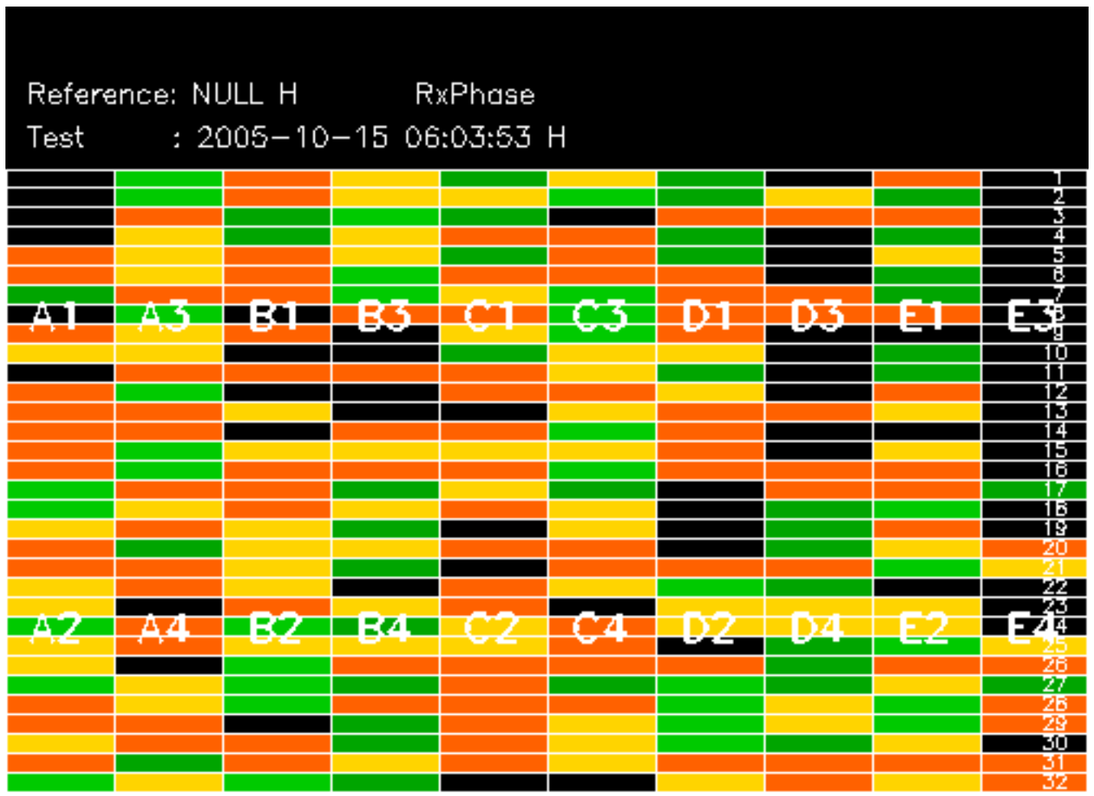

Reference: NULL V RxGain
Test : 2005-10-14 06:35:30 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2005-10-15 06:03:53 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 : 2005-10-15 06:03:53 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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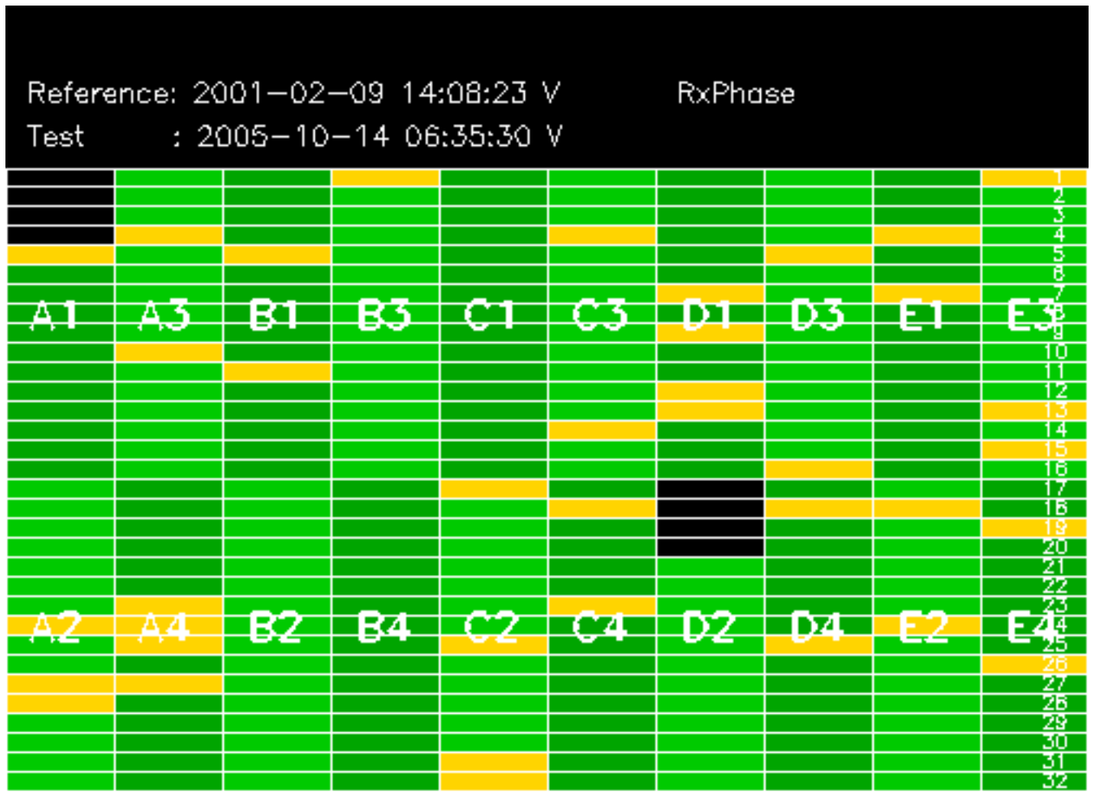
Reference: 2001-02-09 14:08:23 V
Test : 2005-10-14 06:35:30 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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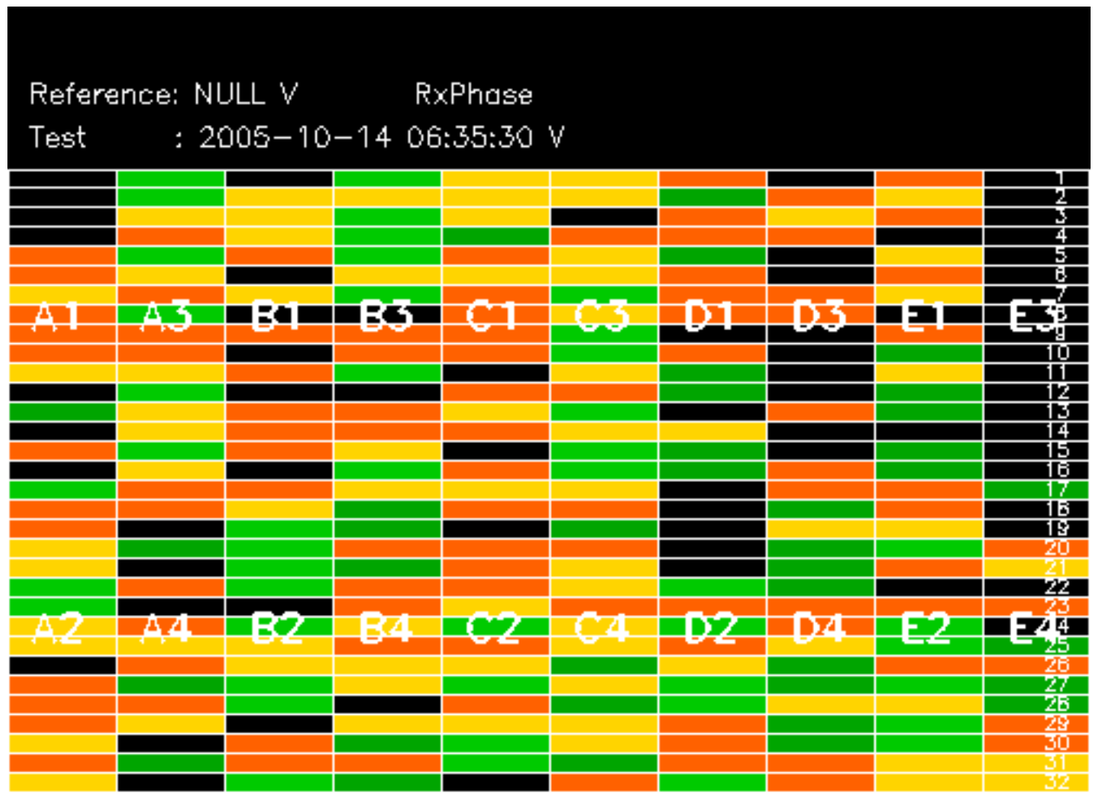
Reference: NULL V RxPhase
Test : 2005-10-14 06:35:30 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
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8
9
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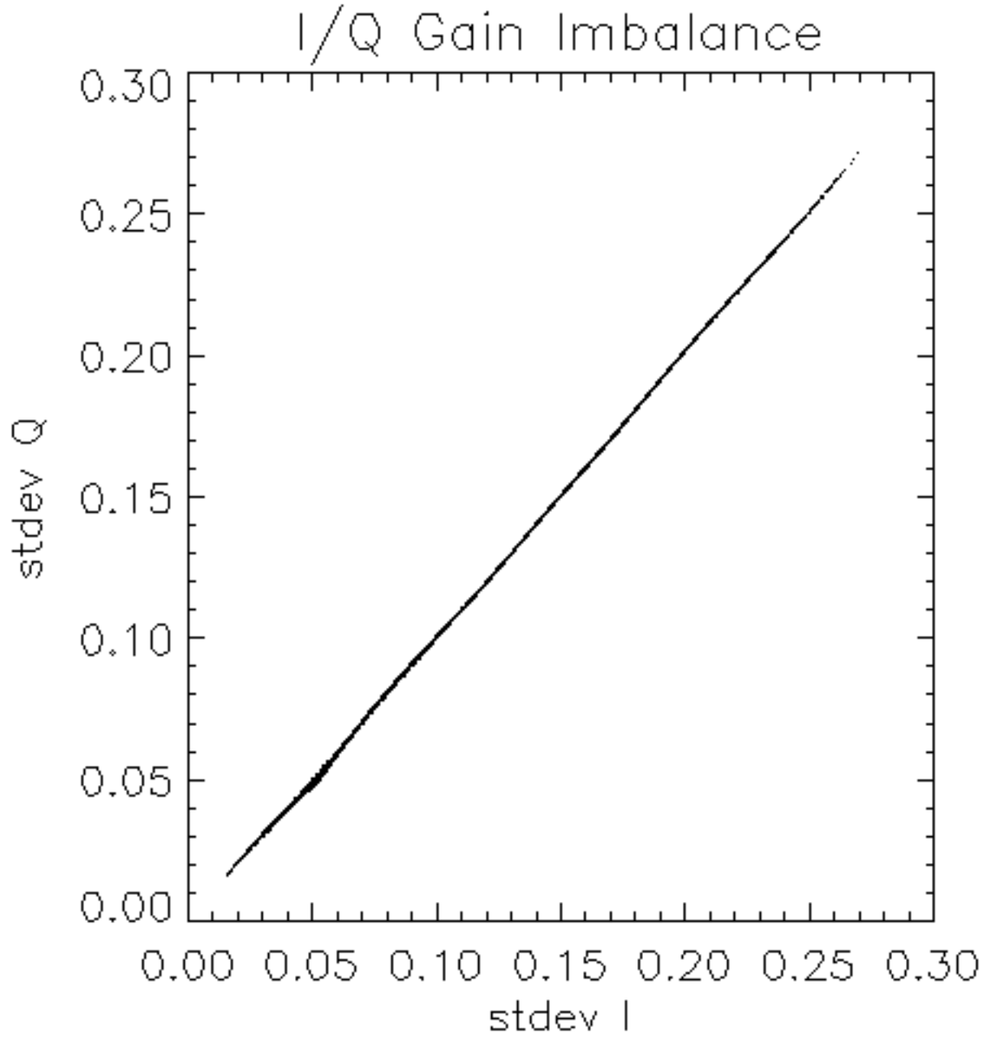
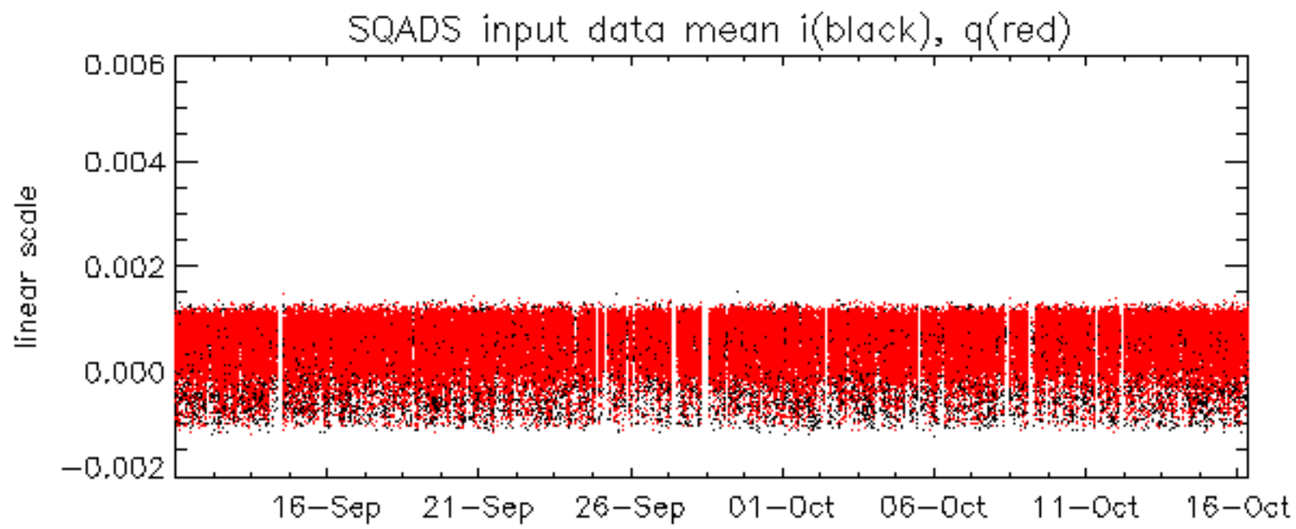
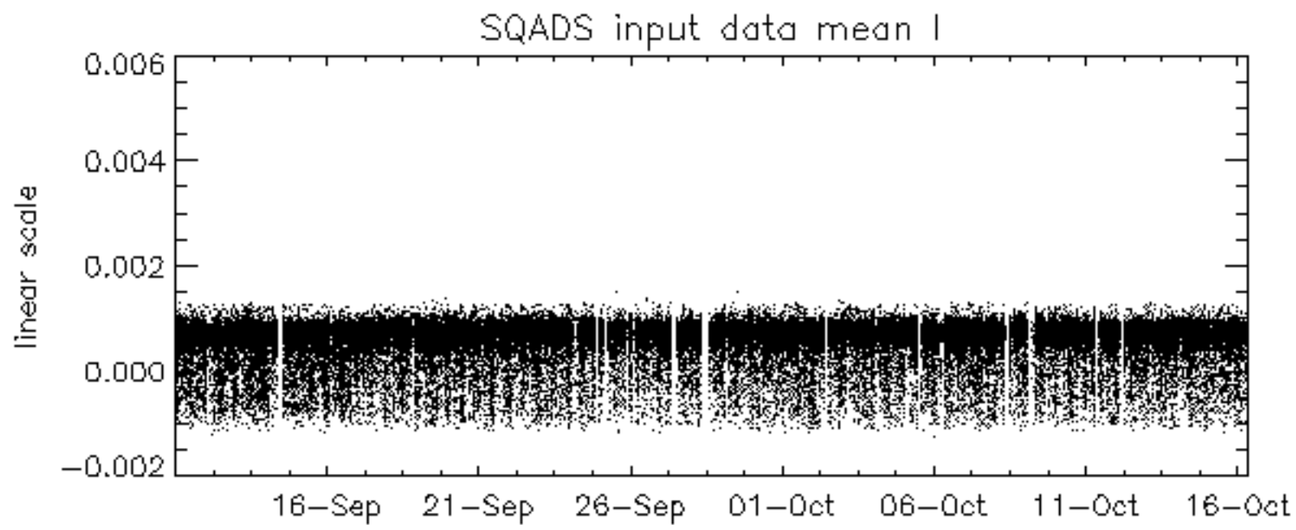
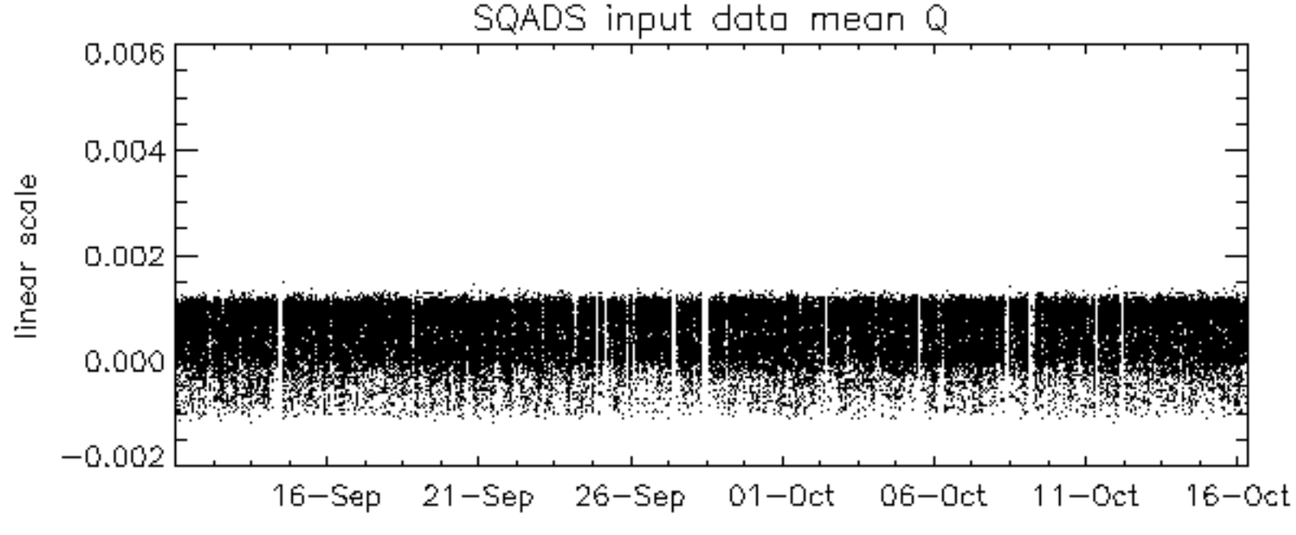
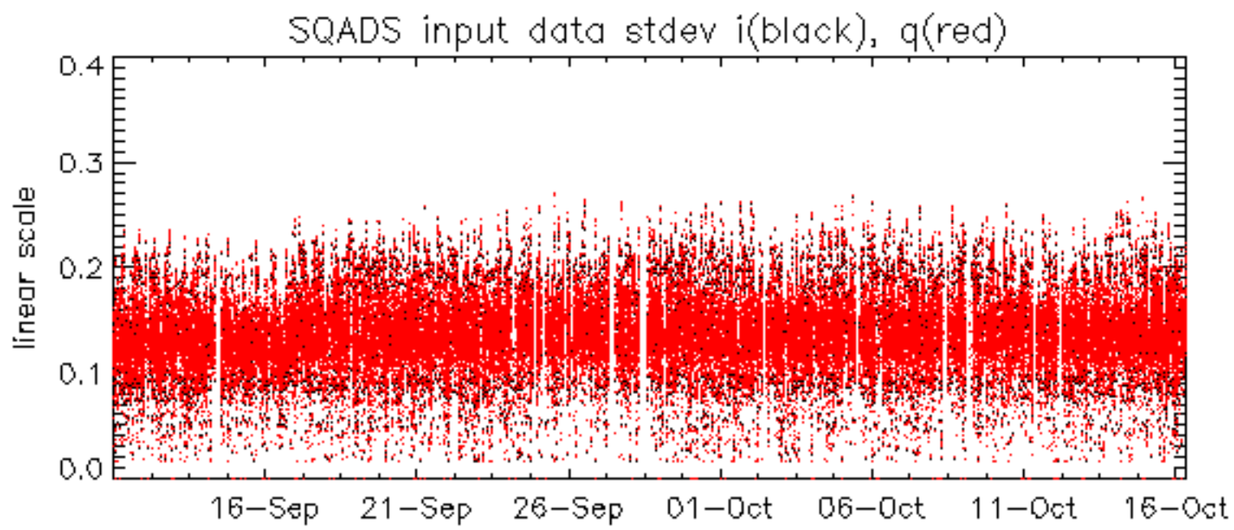
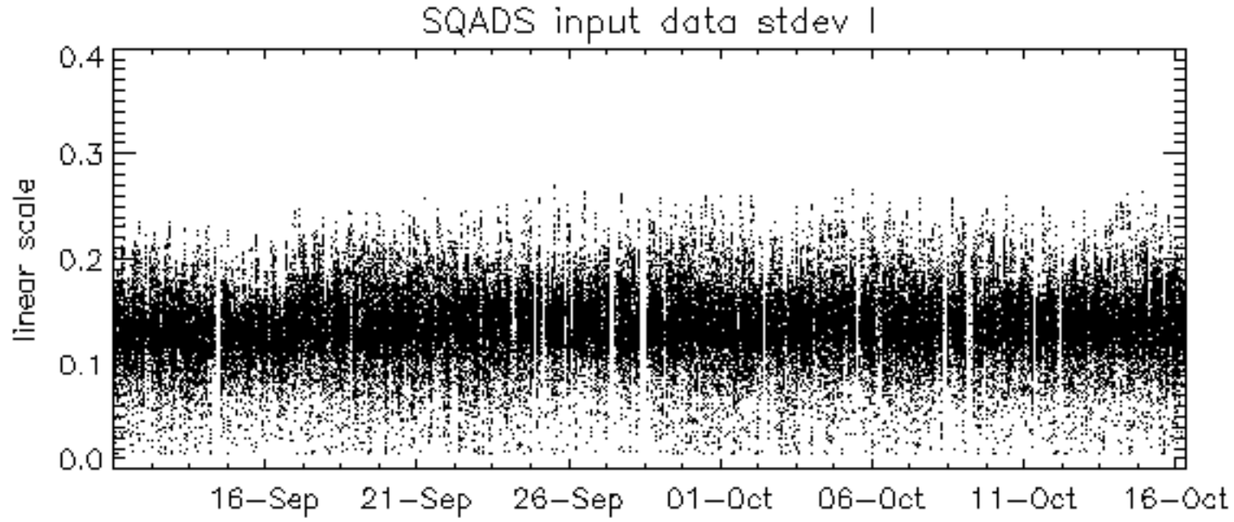

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

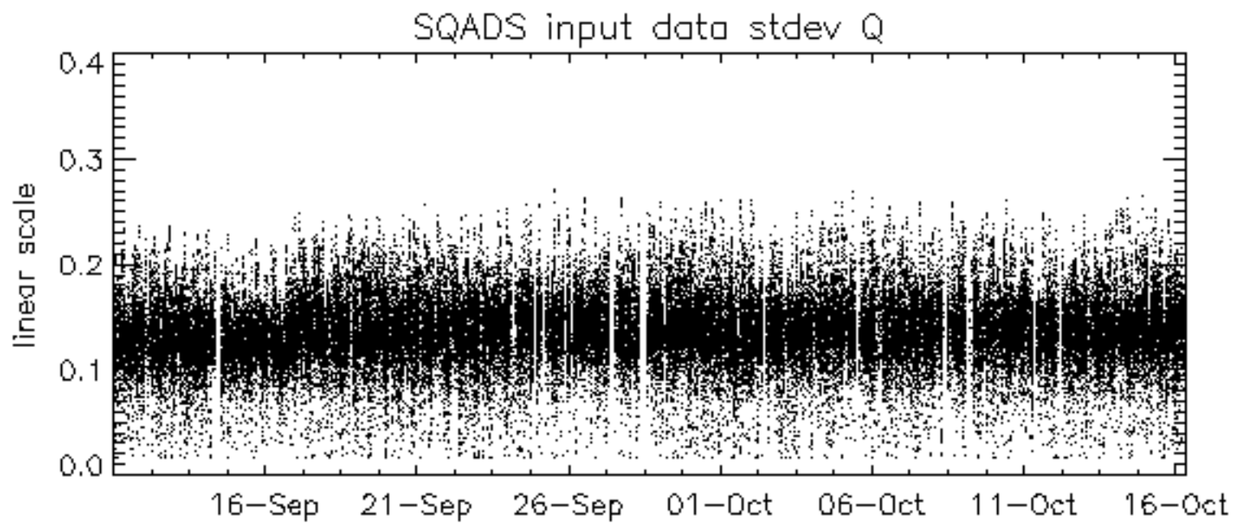

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct

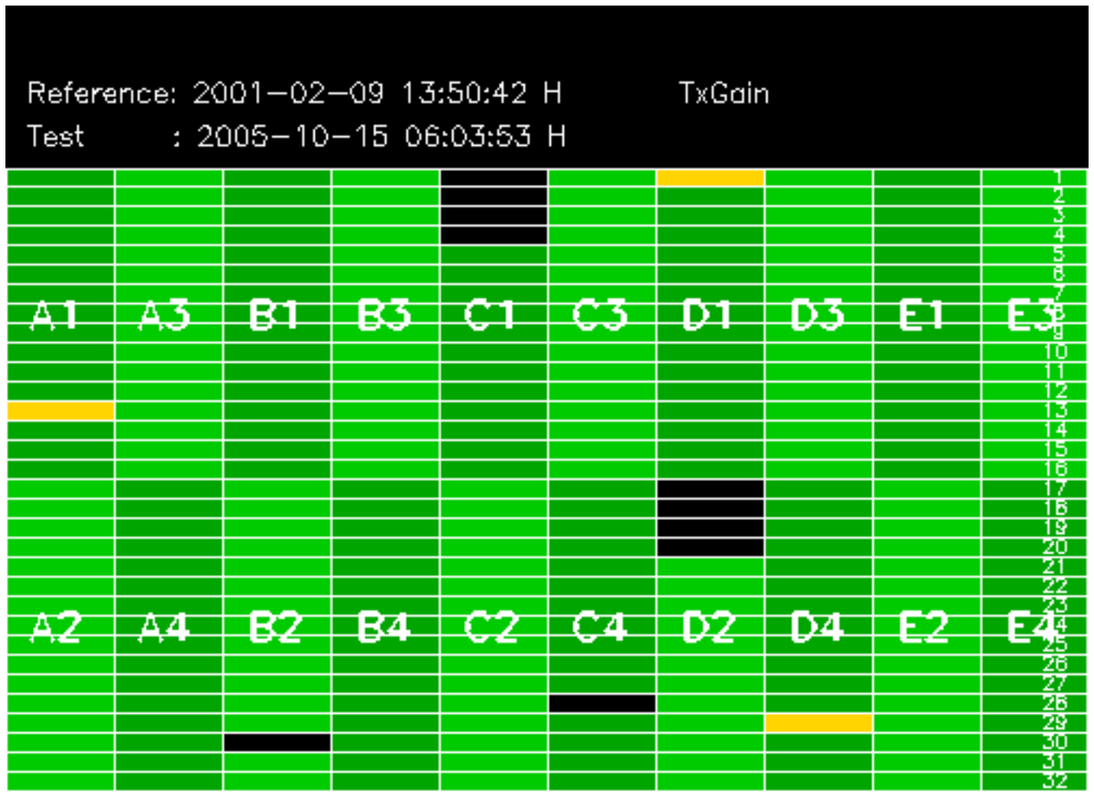

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct


Reference: 2001-02-09 13:50:42 H
Test : 2005-10-15 06:03:53 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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29
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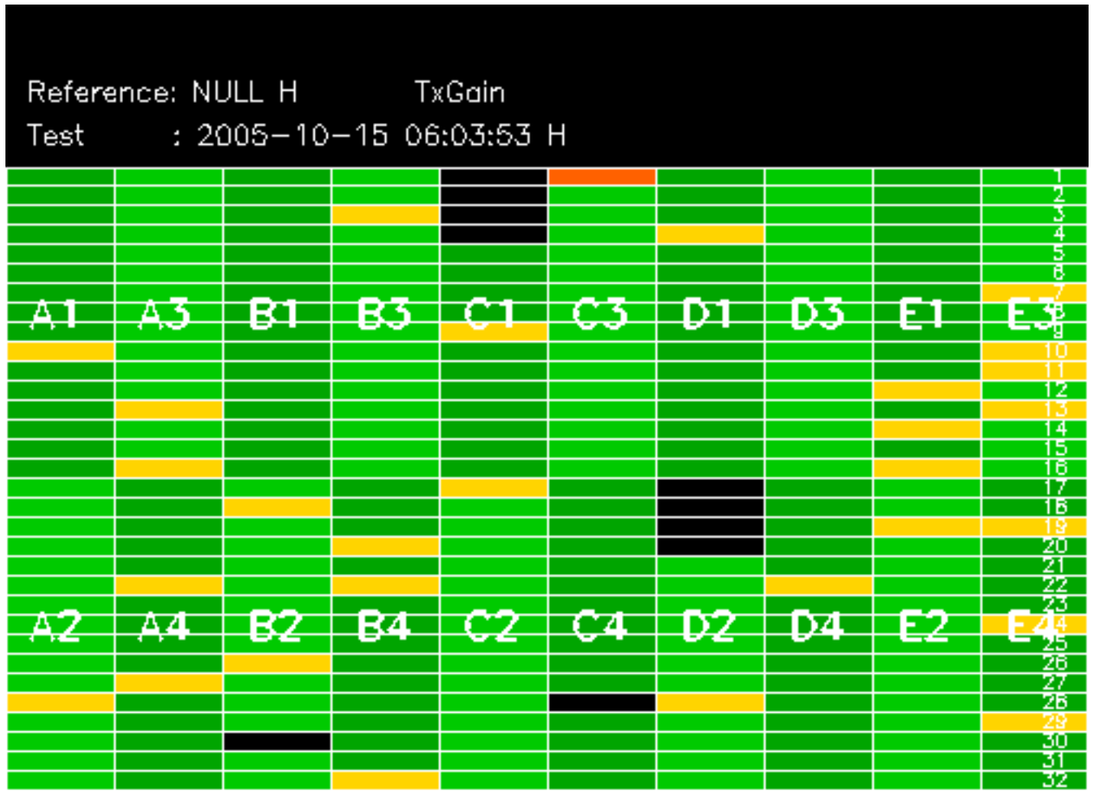
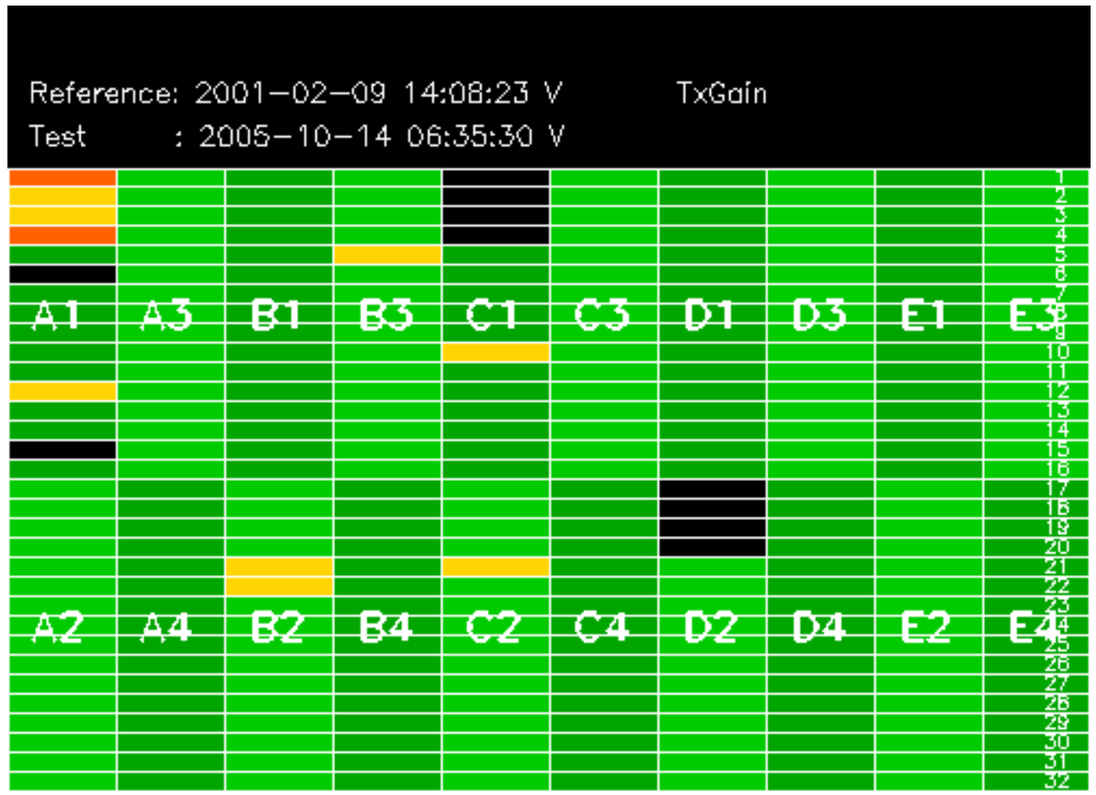
32


Reference: NULL H TxGain
Test : 2005-10-15 06:03:53 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 : 2005-10-14 06:35:30 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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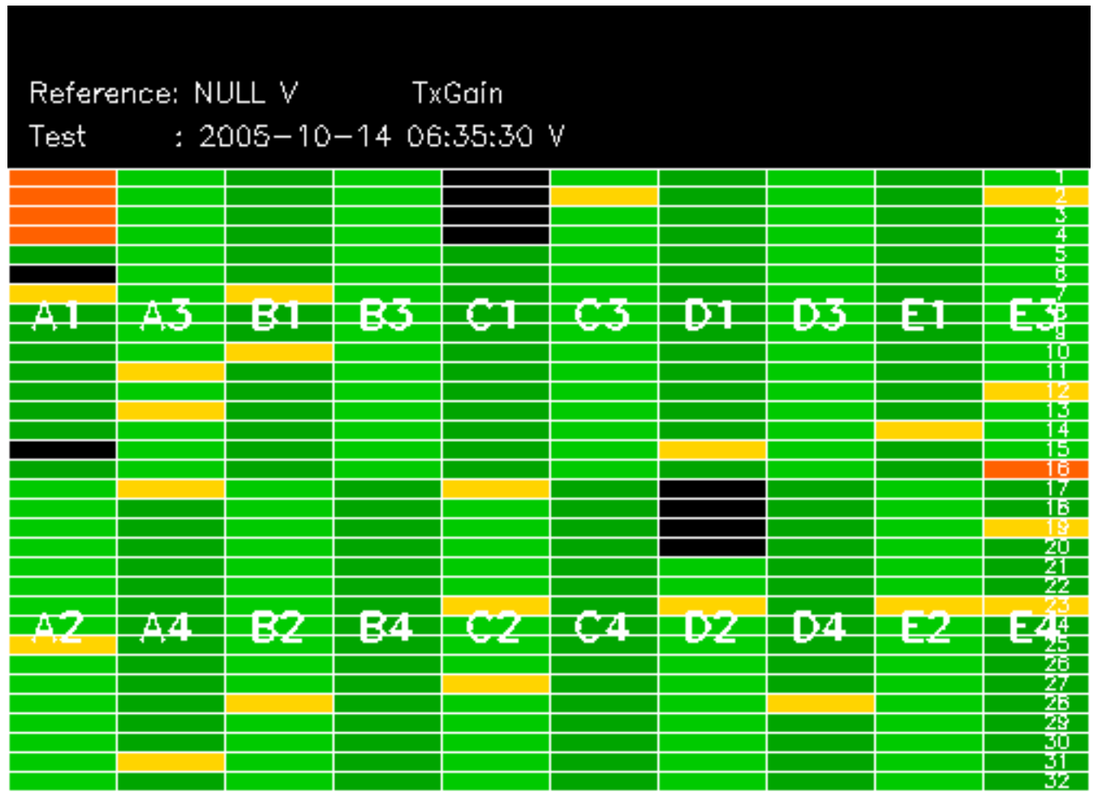
Reference: NULL V TxGain
Test : 2005-10-14 06:35:30 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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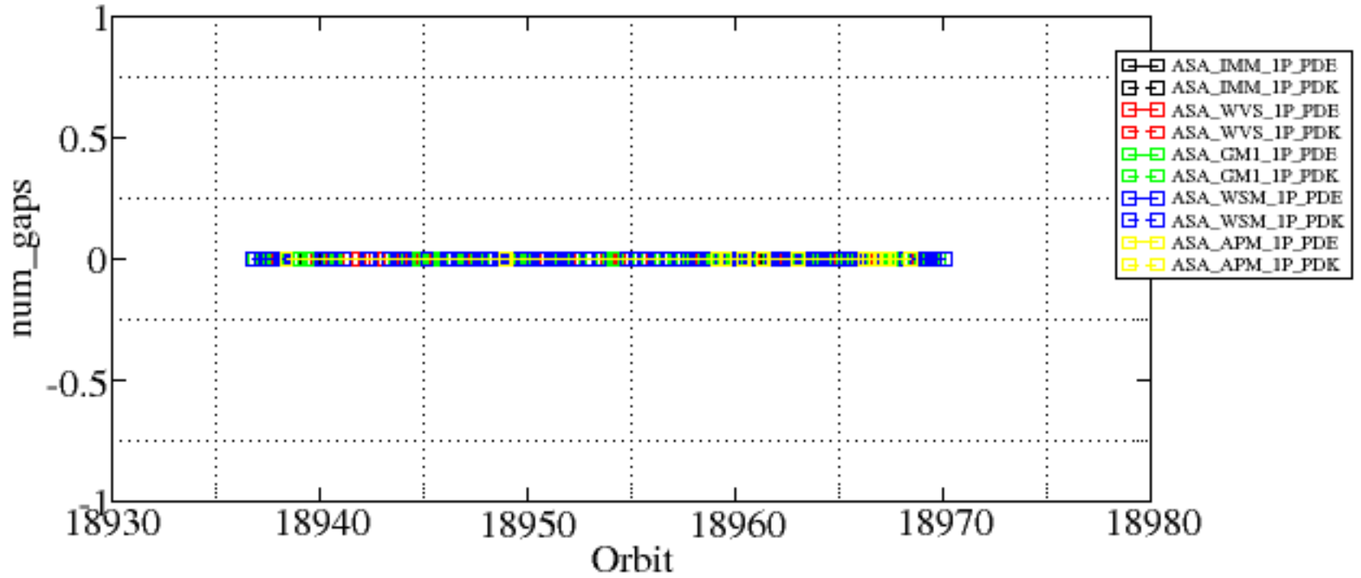
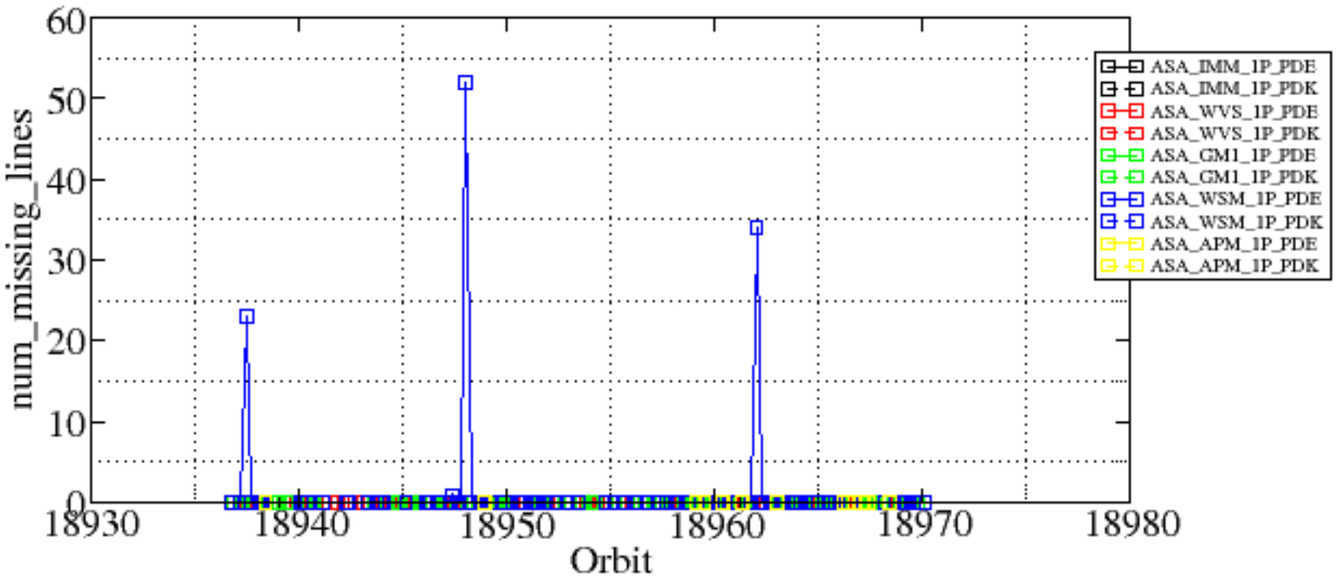
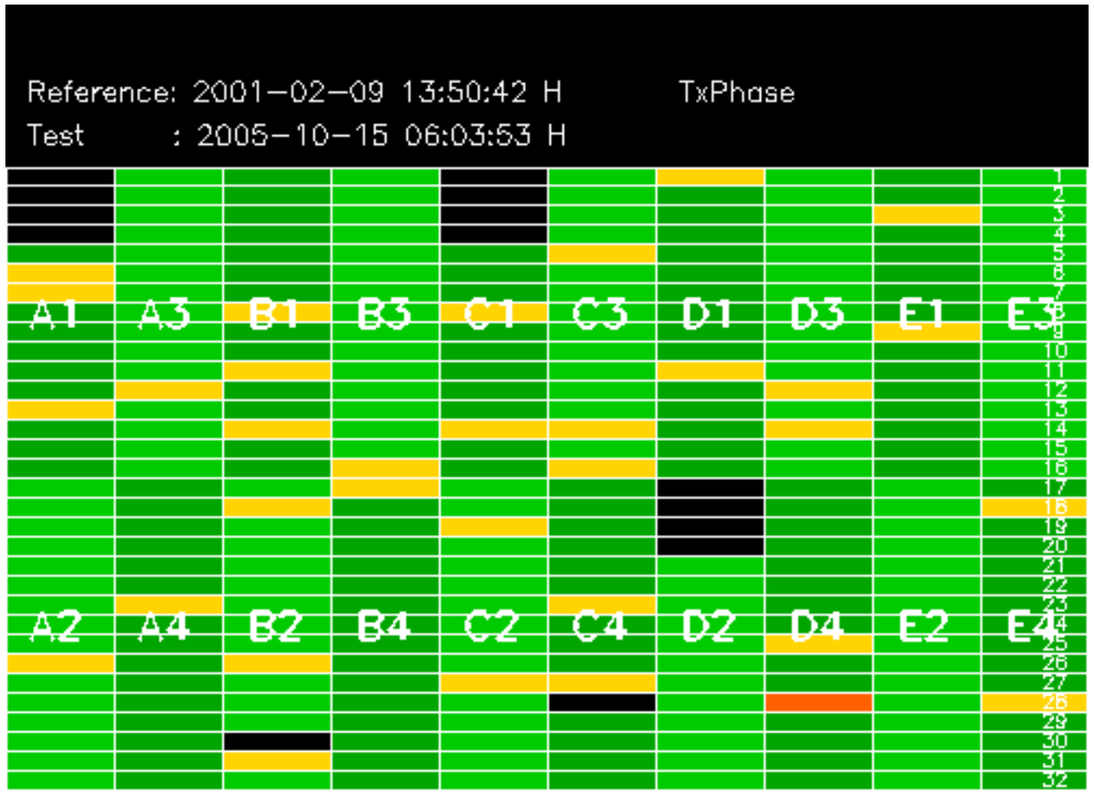
Summary of analysis for the last 3 days 2005101[456]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_WSM_1PNPDE20051014_011413_000003542041_00346_18937_3867.N1 </td> <td>0 </td> <td>23 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051014_175039_000002012041_00356_18947_3964.N1 </td> <td>0 </td> <td>1 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051014_185457_000002312041_00357_18948_4242.N1 </td> <td>0 </td> <td>52 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051014_185458_000002312041_00357_18948_3963.N1 </td> <td>0 </td> <td>52 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051015_182654_000002262041_00371_18962_4160.N1 </td> <td>0 </td> <td>34 </td></tr>
</table>


num_gaps
1
0.5
0
-0.5
-1
18930
18940
18950
18960
18970
18980
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
60
50
40
30
20
10
0
18930
18940
18950
18960
18970
18980
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 : 2005-10-15 06:03:53 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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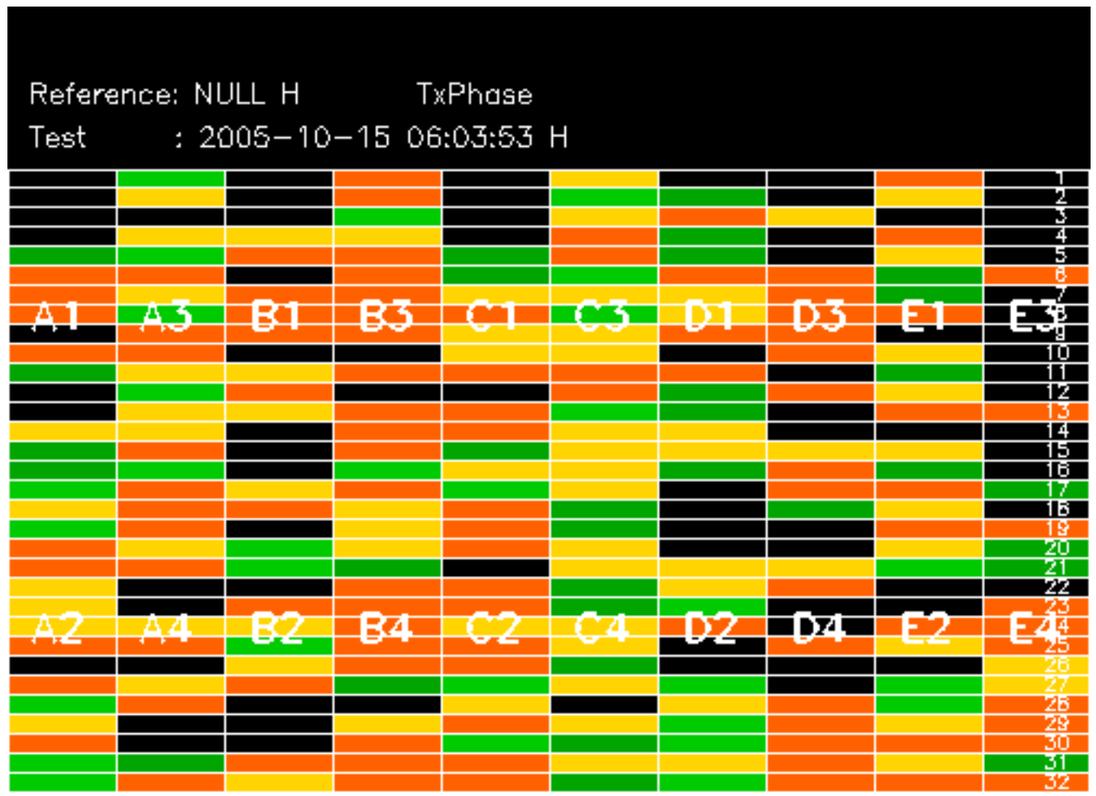
Reference: NULL H TxPhase
Test : 2005-10-15 06:03:53 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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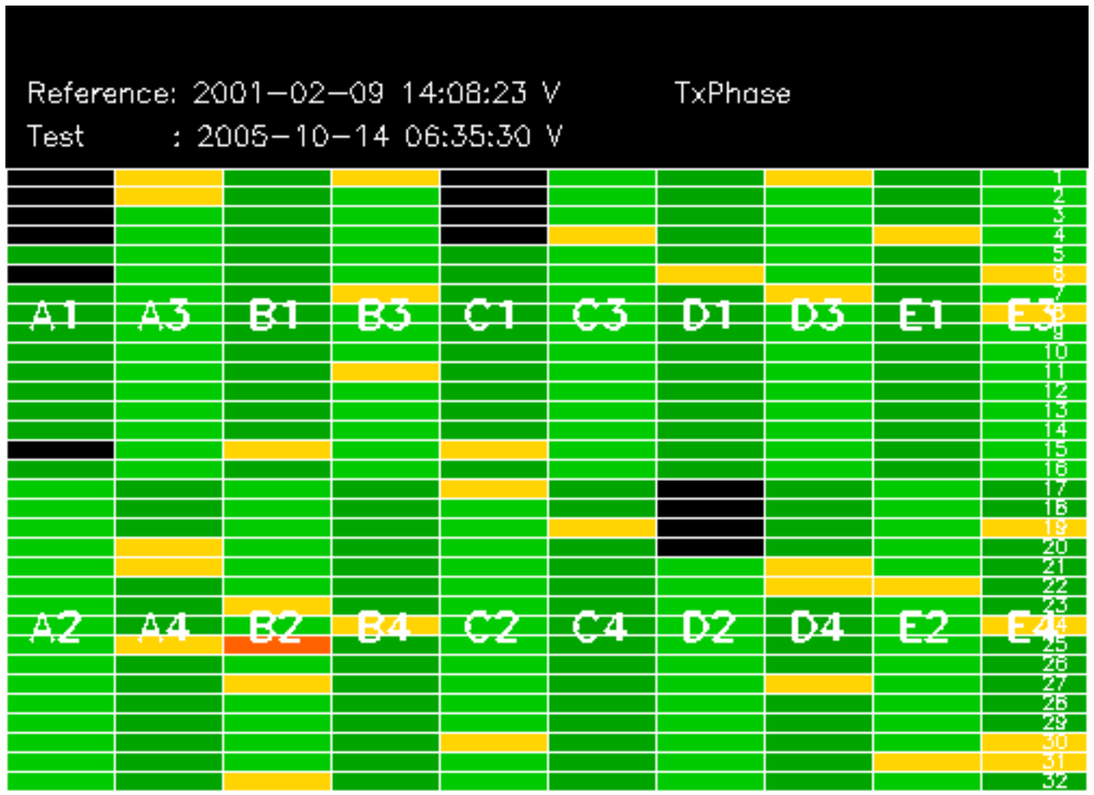
Reference: 2001-02-09 14:08:23 V
Test : 2005-10-14 06:35:30 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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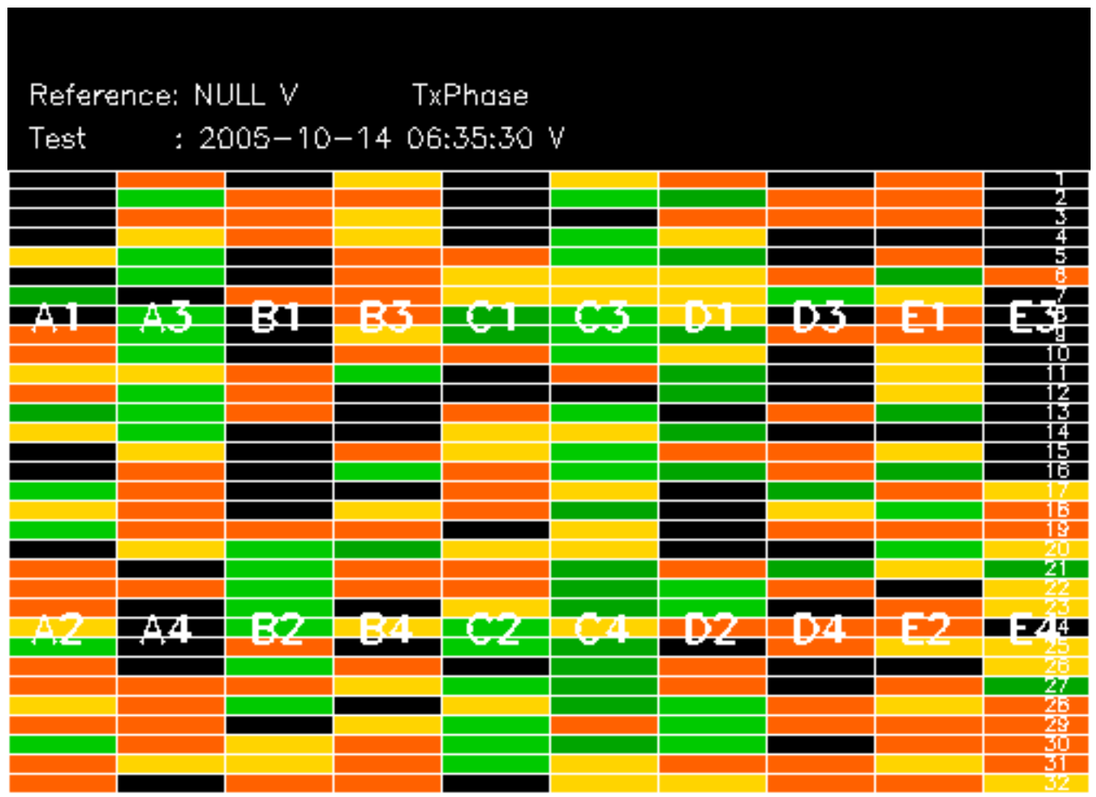
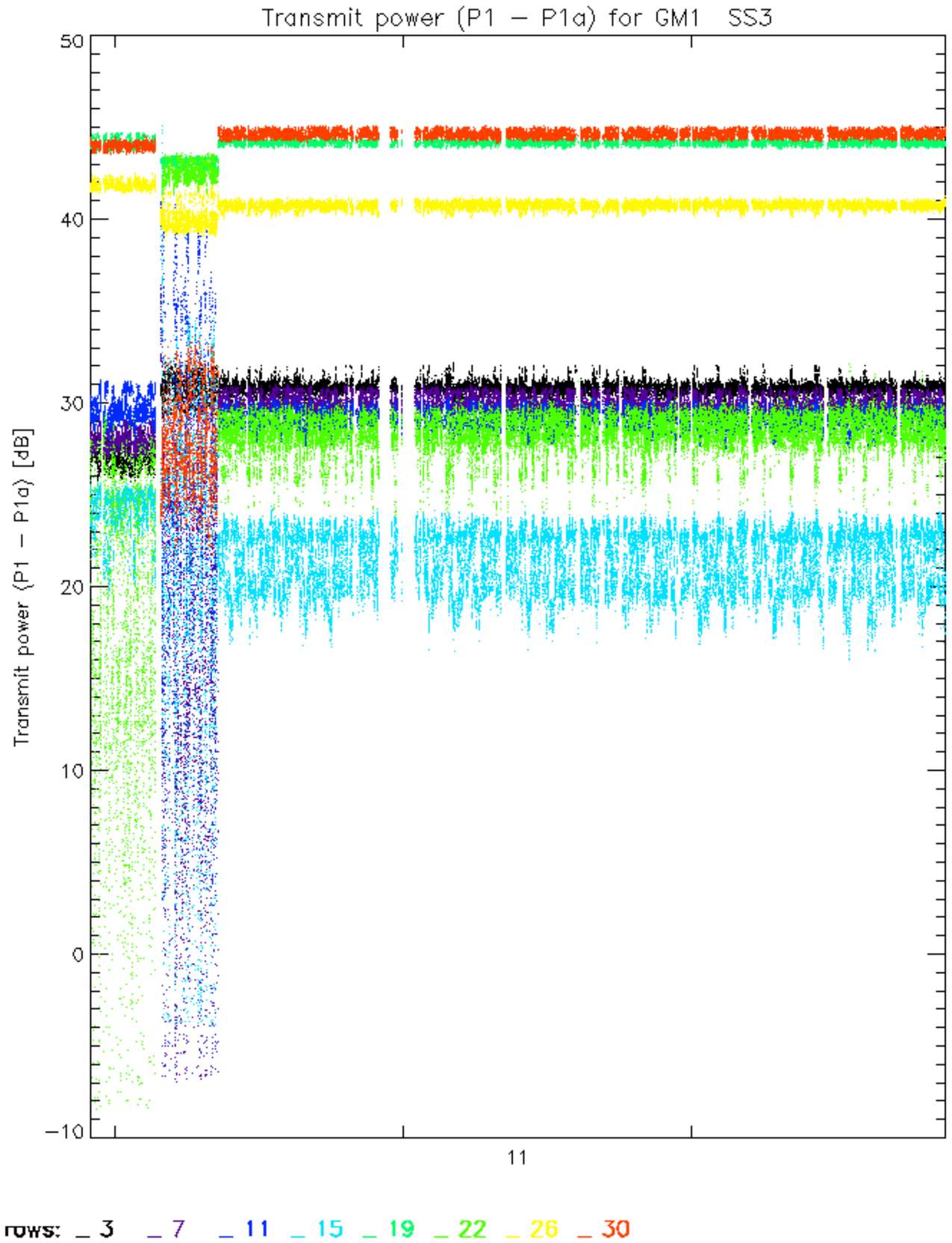
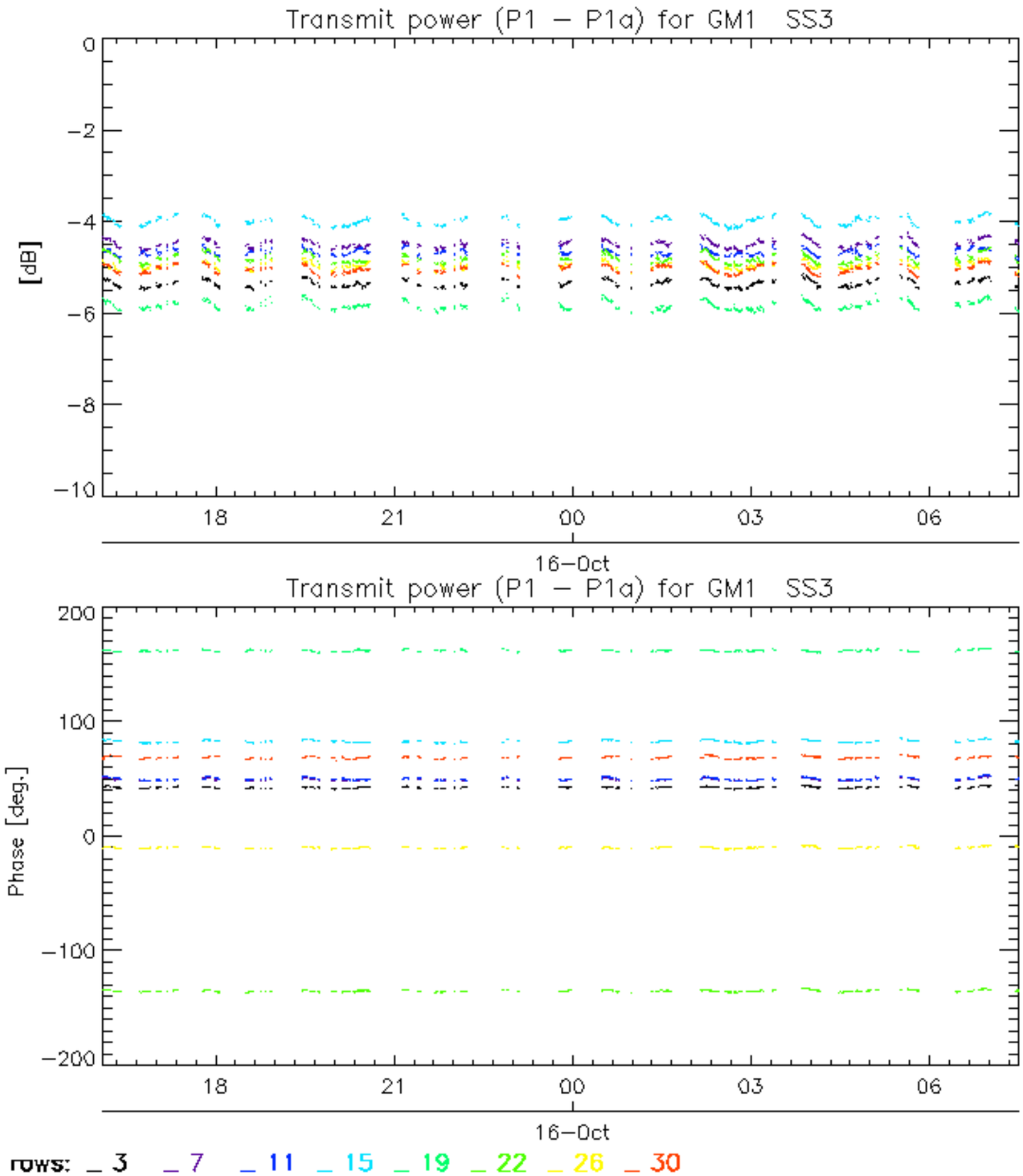
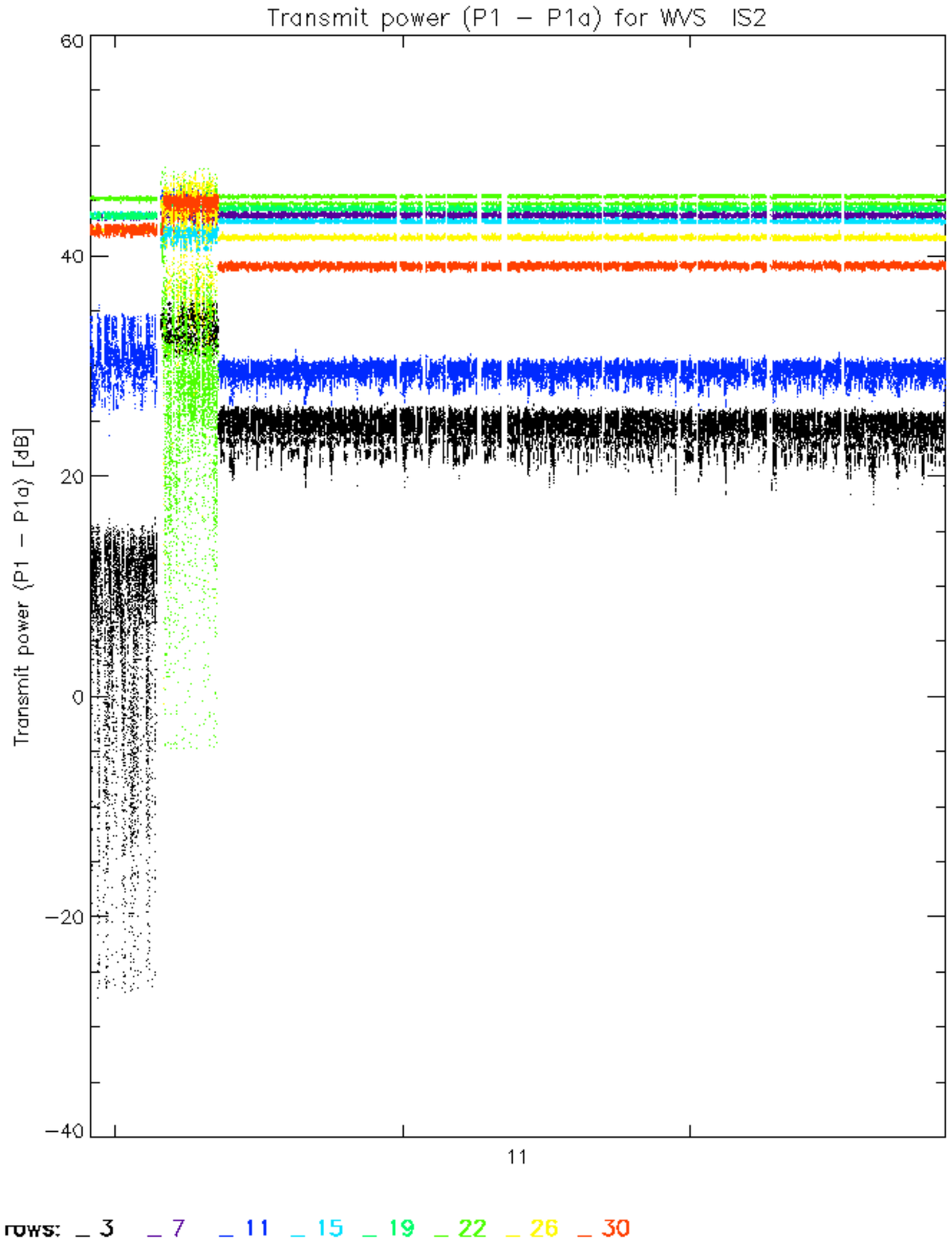
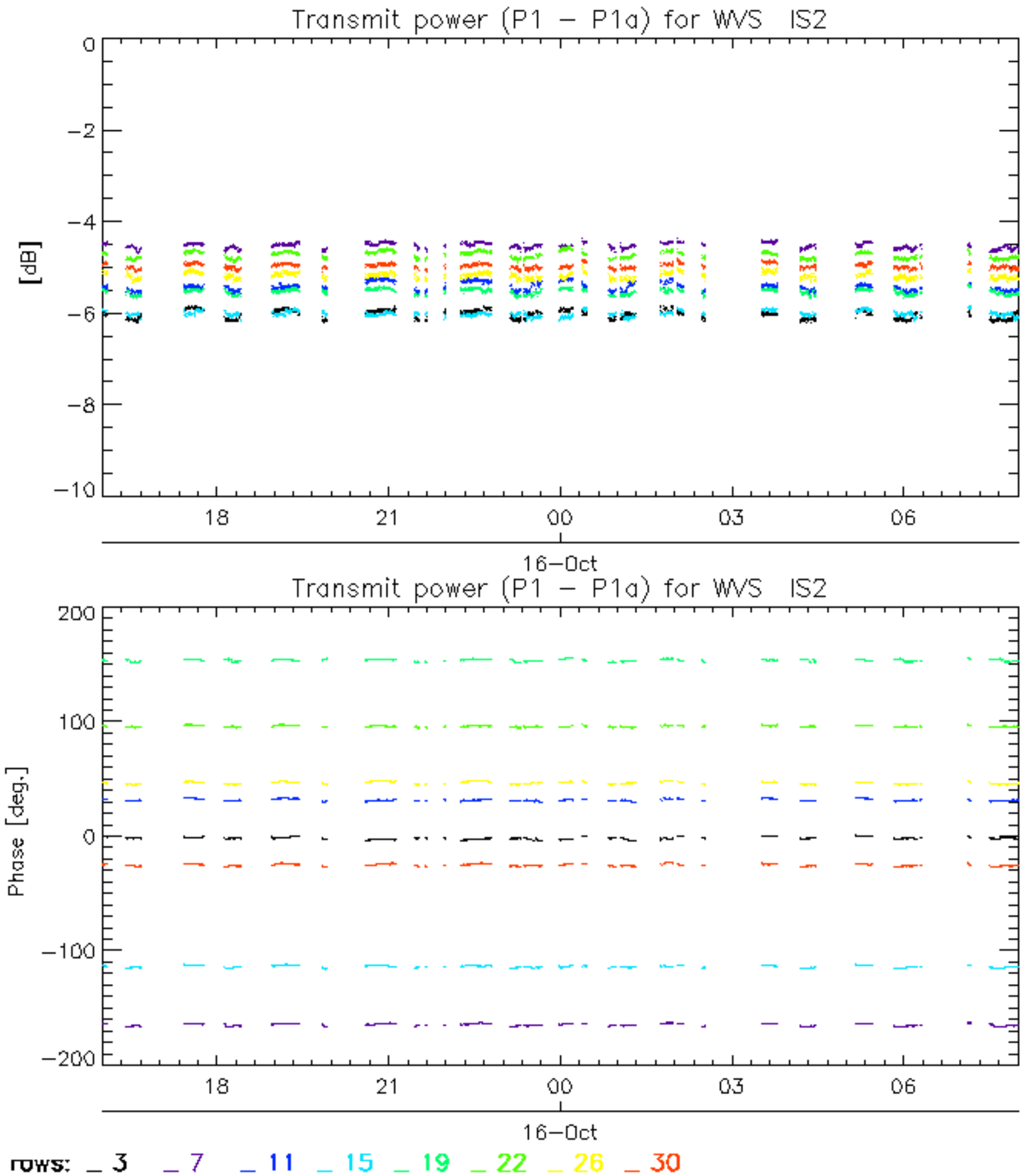

Reference: NULL V TxPhase
Test : 2005-10-14 06:35:30 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


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


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


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

No unavailabilities during the reported period.