PRELIMINARY REPORT OF 051018

last update on Tue Oct 18 16:42:27 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 2005-10-17 00:00:00 to 2005-10-18 16:42:28

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	37	68	4	4	25
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	37	68	4	4	25
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	37	68	4	4	25
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	37	68	4	4	25

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	35	56	25	13	49
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	35	56	25	13	49
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	35	56	25	13	49
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	35	56	25	13	49

2.3 - Browse Visual Inspection

No anomalies observed on available browse products

2.4 - Data Analysis

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

3 - Module Stepping Mode

No anomalies observed on available MS products:

Polarisation	Start Time
V	20051016 053216
H	20051017 050039

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	-3.585152	0.050520	0.272523
7	P1	-2.928912	0.026116	0.158920
11	P1	-4.136793	0.078972	0.357499
15	P1	-6.010624	0.019378	-0.091435
19	P1	-3.099770	0.074514	-0.291118
22	P1	-4.462819	0.018885	0.077351
26	P1	-4.350204	0.069842	0.407162
30	P1	-5.708178	0.073341	0.020970
3	P1	-15.772958	1.825757	1.988857
7	P1	-16.808006	4.362053	2.742338
11	P1	-17.120073	9.698173	4.739482
15	P1	-14.039403	7.742134	3.666206
19	P1	-13.571981	0.087054	-0.222187
22	P1	-17.329044	21.906200	6.278854
26	P1	-17.454803	21.338232	6.850279
30	P1	-17.221148	8.847991	4.318617

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.867371	0.099095	-0.004772
7	P2	-22.711779	0.131067	0.073368
11	P2	-16.736423	0.395398	-0.107303
15	P2	-7.237720	0.112675	0.089951
19	P2	-9.111188	0.153042	-0.328231
22	P2	-17.642023	0.144601	-0.446378
26	P2	-16.123163	0.108190	0.130224
30	P2	-19.625553	0.111426	0.001148

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.183607	0.005321	-0.040255
7	P3	-8.183607	0.005321	-0.040255
11	P3	-8.183607	0.005321	-0.040255
15	P3	-8.183607	0.005321	-0.040255
19	P3	-8.183607	0.005321	-0.040255
22	P3	-8.183607	0.005321	-0.040255
26	P3	-8.183607	0.005321	-0.040255
30	P3	-8.183607	0.005321	-0.040255

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	-3.518547	0.195206	-0.765016
7	P1	-2.906531	0.062243	0.393156
11	P1	-2.957416	0.118193	0.577350
15	P1	-3.413551	0.023993	0.144148
19	P1	-3.304326	0.043950	-0.241656
22	P1	-5.084861	0.097943	-0.305004
26	P1	-5.699506	0.224159	-0.417066
30	P1	-5.140718	0.162975	-0.365689
3	P1	-11.555642	0.362215	0.771462
7	P1	-11.183088	19.067339	6.610517
11	P1	-11.827285	37.721760	9.520732
15	P1	-12.230118	32.513927	8.673998
19	P1	-15.345782	0.211526	-0.610735
22	P1	-20.739799	2.217973	1.635328

26	P1	-17.568354	4.036973	2.473010
30	P1	-19.169937	1.609483	2.078319

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.687653	0.043146	-0.080056
7	P2	-23.033653	0.116765	-0.079003
11	P2	-11.691067	0.147973	-0.343509
15	P2	-4.905507	0.041909	0.070607
19	P2	-6.812947	0.104489	-0.446626
22	P2	-8.011167	0.099917	-0.531838
26	P2	-23.868664	0.043136	0.044539
30	P2	-22.095608	0.051439	0.193361

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.026251	0.002876	-0.040029
7	P3	-8.026327	0.002883	-0.040305
11	P3	-8.026199	0.002888	-0.040631
15	P3	-8.026286	0.002880	-0.040297
19	P3	-8.026382	0.002883	-0.039963
22	P3	-8.026190	0.002891	-0.040369
26	P3	-8.026477	0.002886	-0.040258
30	P3	-8.026291	0.002886	-0.040177

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	0.000548710
	stdev	1.76686e-07
MEAN Q	mean	0.000534965
	stdev	2.17329e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136725
	stdev	0.00111115
STDEV Q	mean	0.137059
	stdev	0.00112707

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005101[678]
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_1PNPDE20051018_003757_000000842041_00403_18994_8685.N1	1	0
ASA_WSM_1PNPDE20051017_011919_000003912041_00389_18980_4497.N1	0	68
ASA_WSM_1PNPDE20051017_035606_000001472041_00391_18982_4517.N1	0	41
ASA_WSM_1PNPDE20051018_022852_000002392041_00404_18995_4709.N1	0	49
ASA_WSM_1PNPDK20051016_124418_000001832041_00381_18972_7198.N1	0	1

ASA_WSM_1PNPDK20051016_124420_000001282041_00381_18972_7244.N1	0	1

7 - Doppler Analysis

Preliminary report.The data is not yet controled

7.1 - Unbiased Doppler Error for WVS

Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

7.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler

Acsending

Descending

7.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX


7.4 - Unbiased Doppler Error for GM1

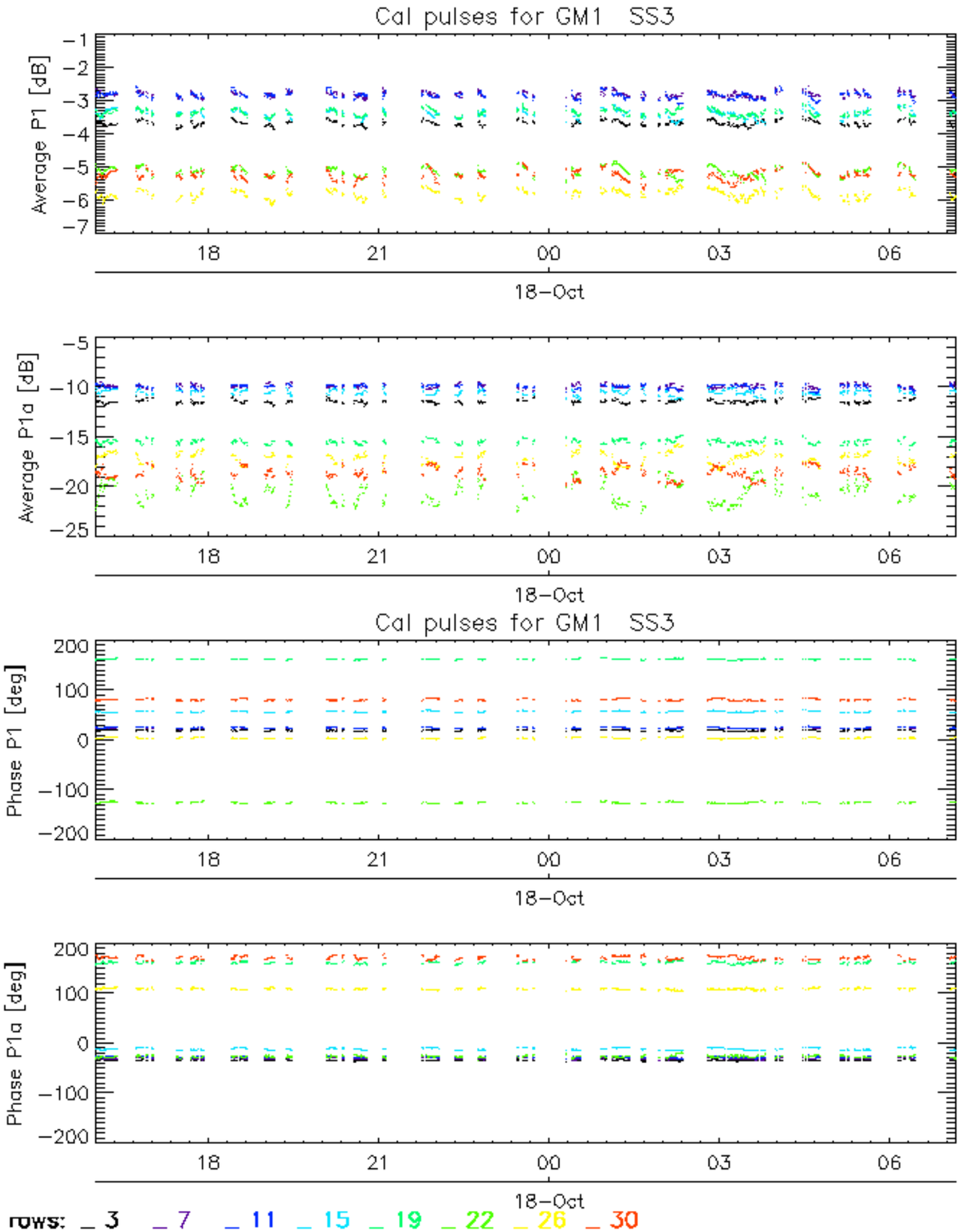
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

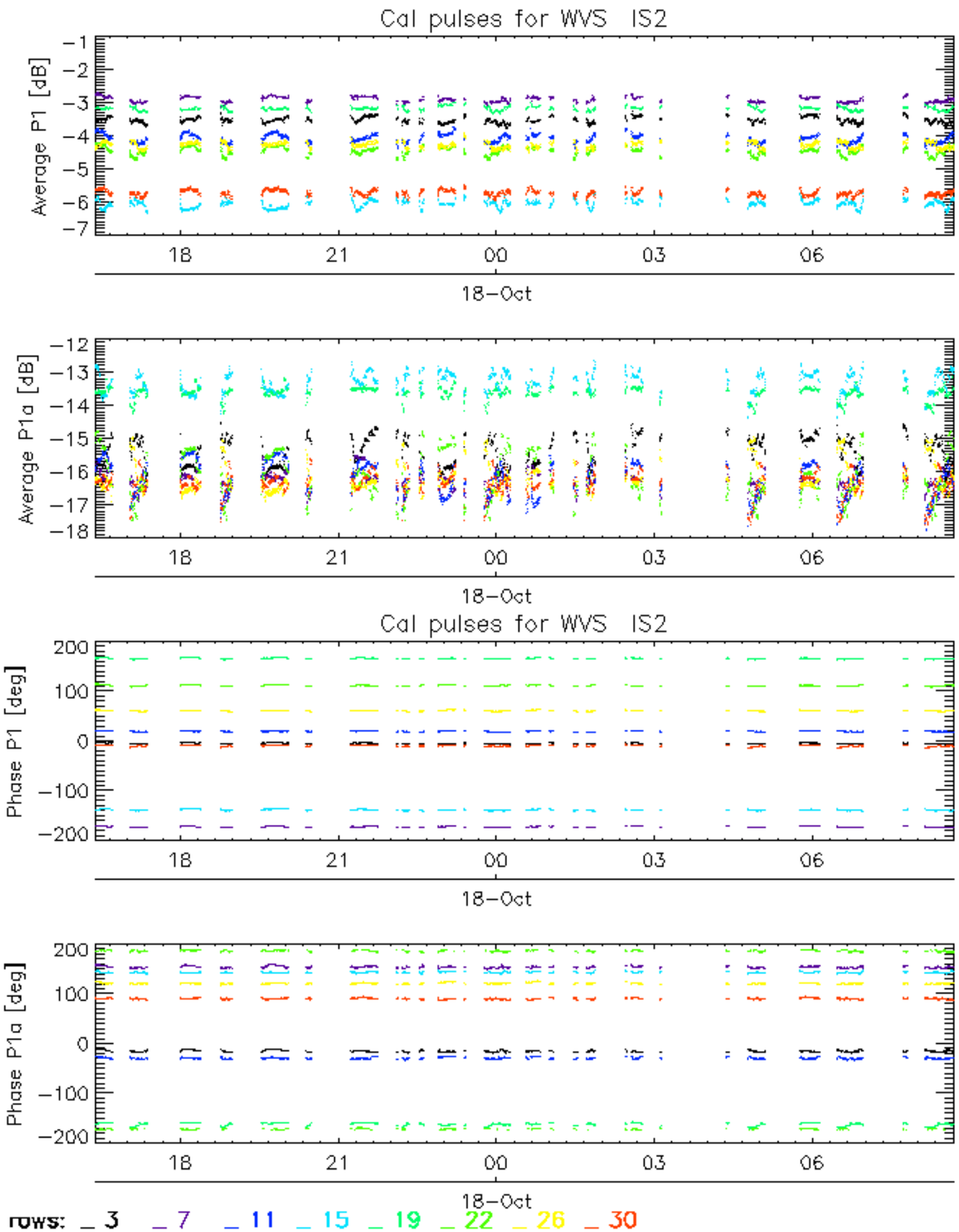
7.5 - Absolute Doppler for GM1

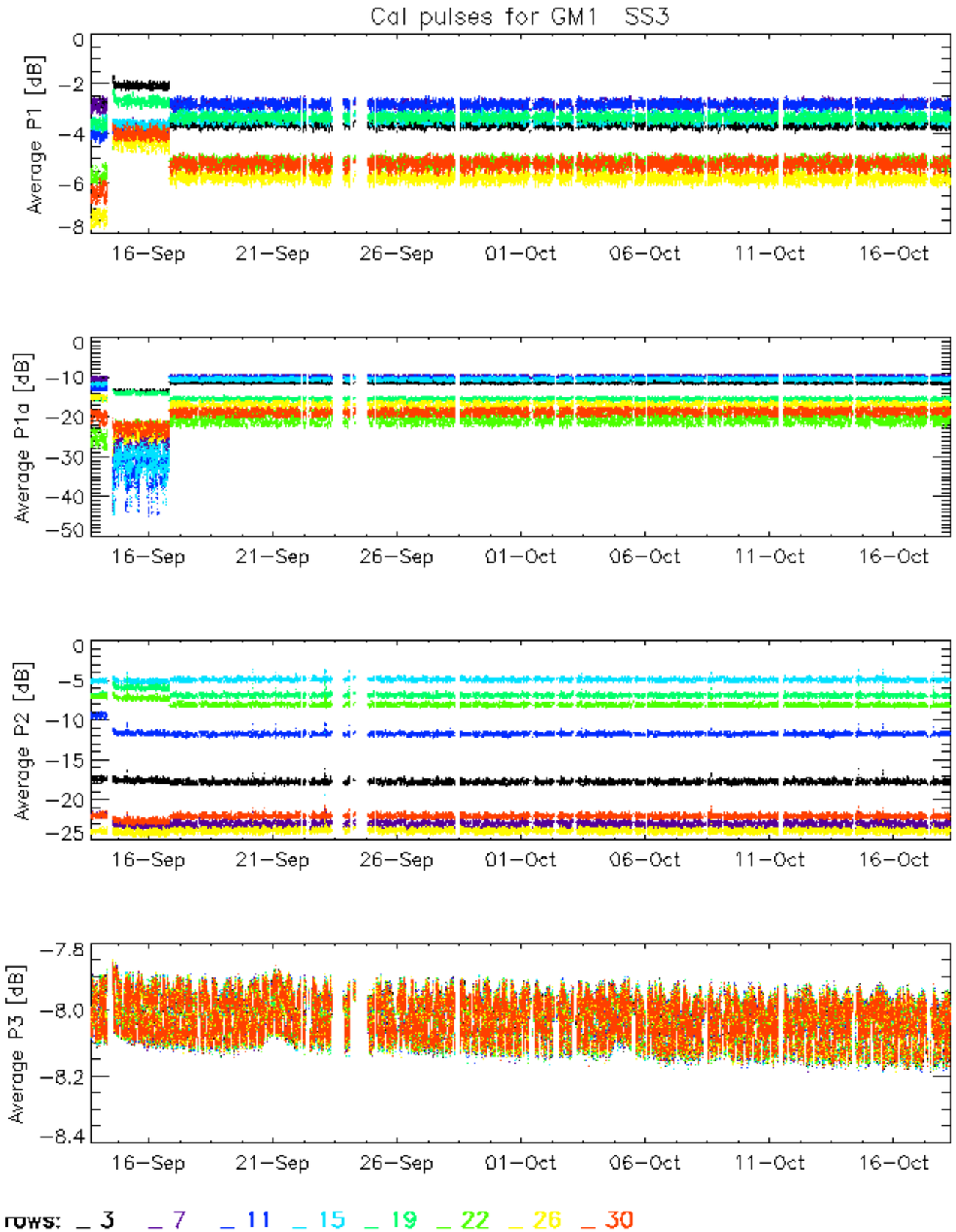
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

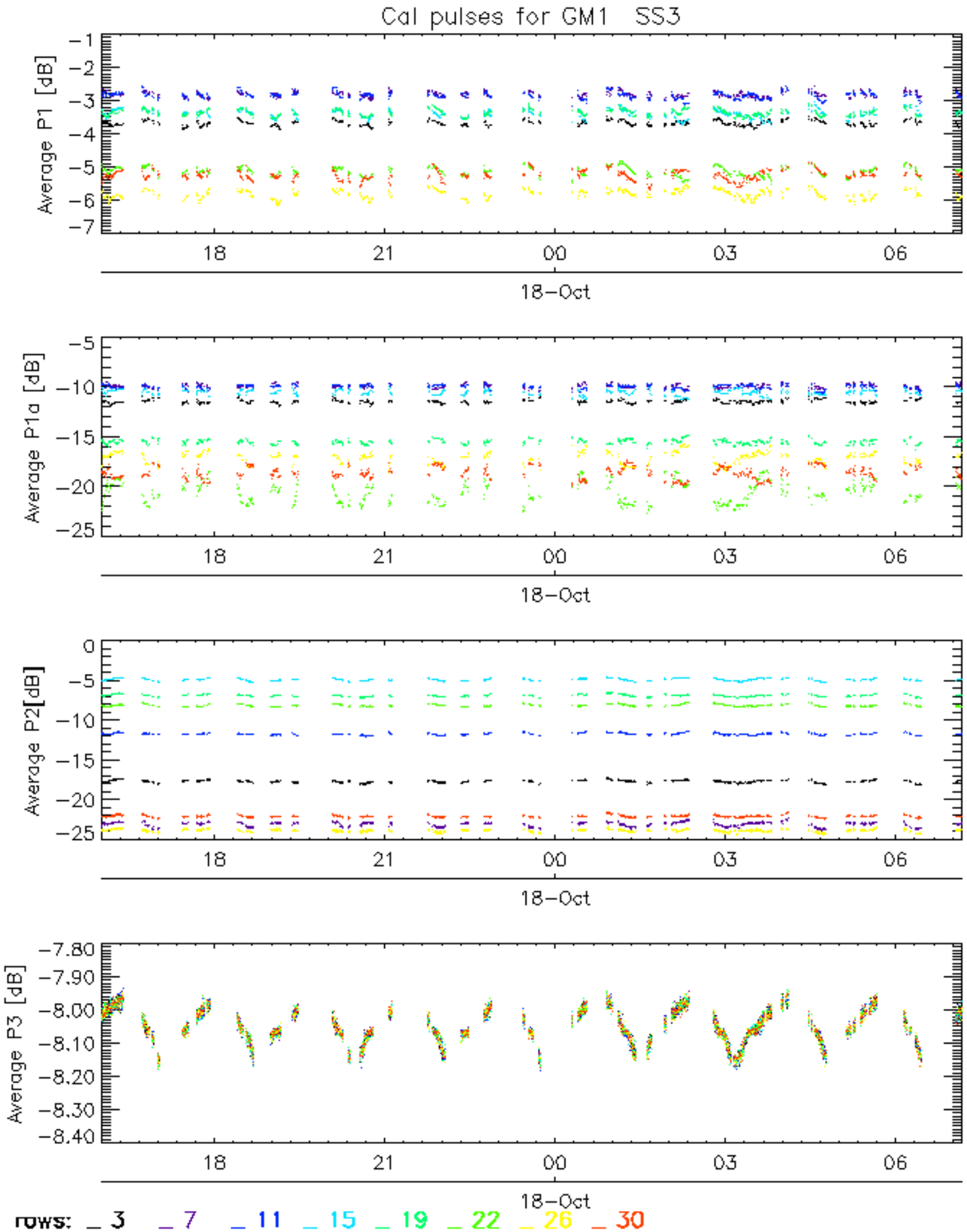
7.6 - Doppler evolution versus ANX for GM1

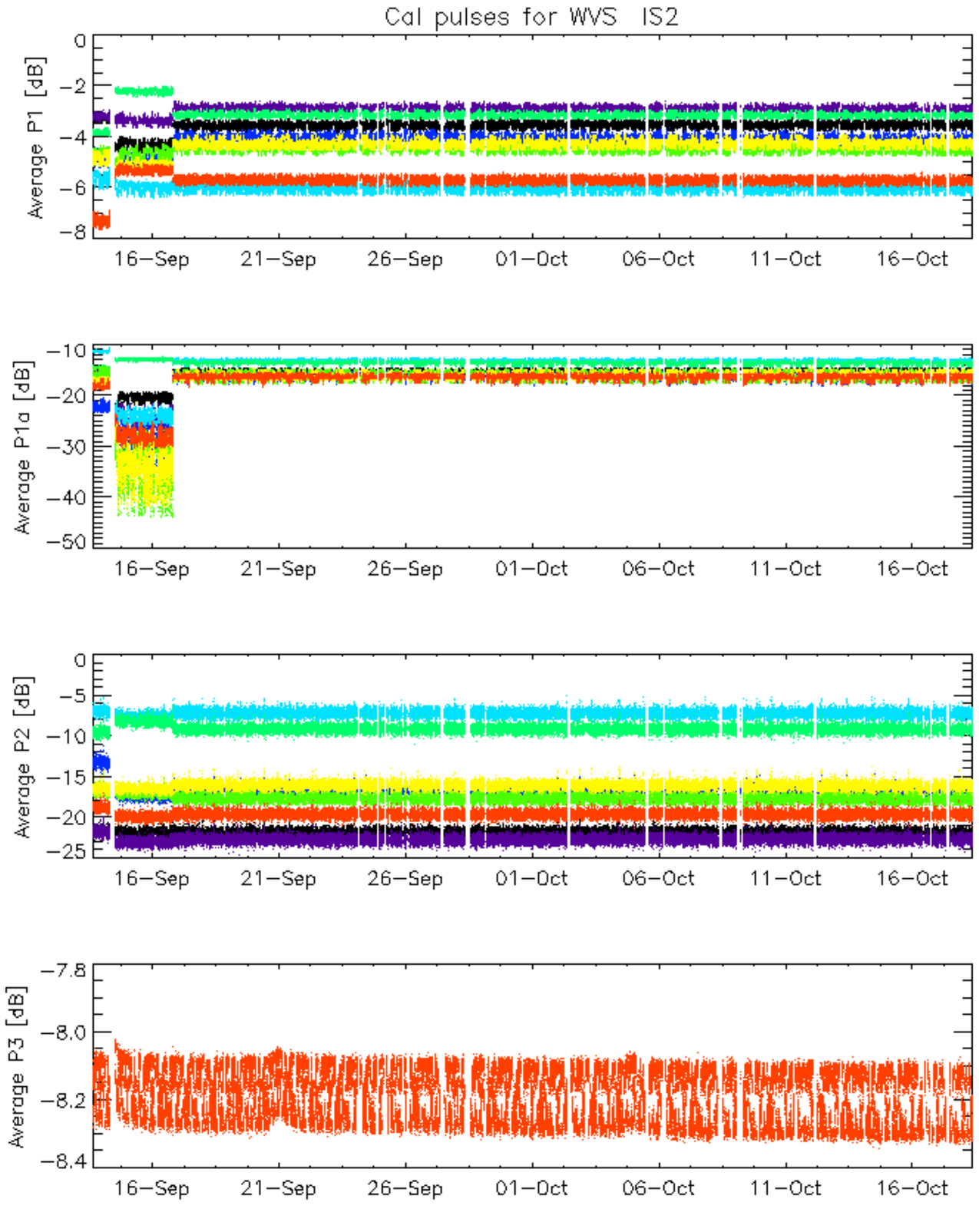
Evolution Doppler error versus ANX
☒

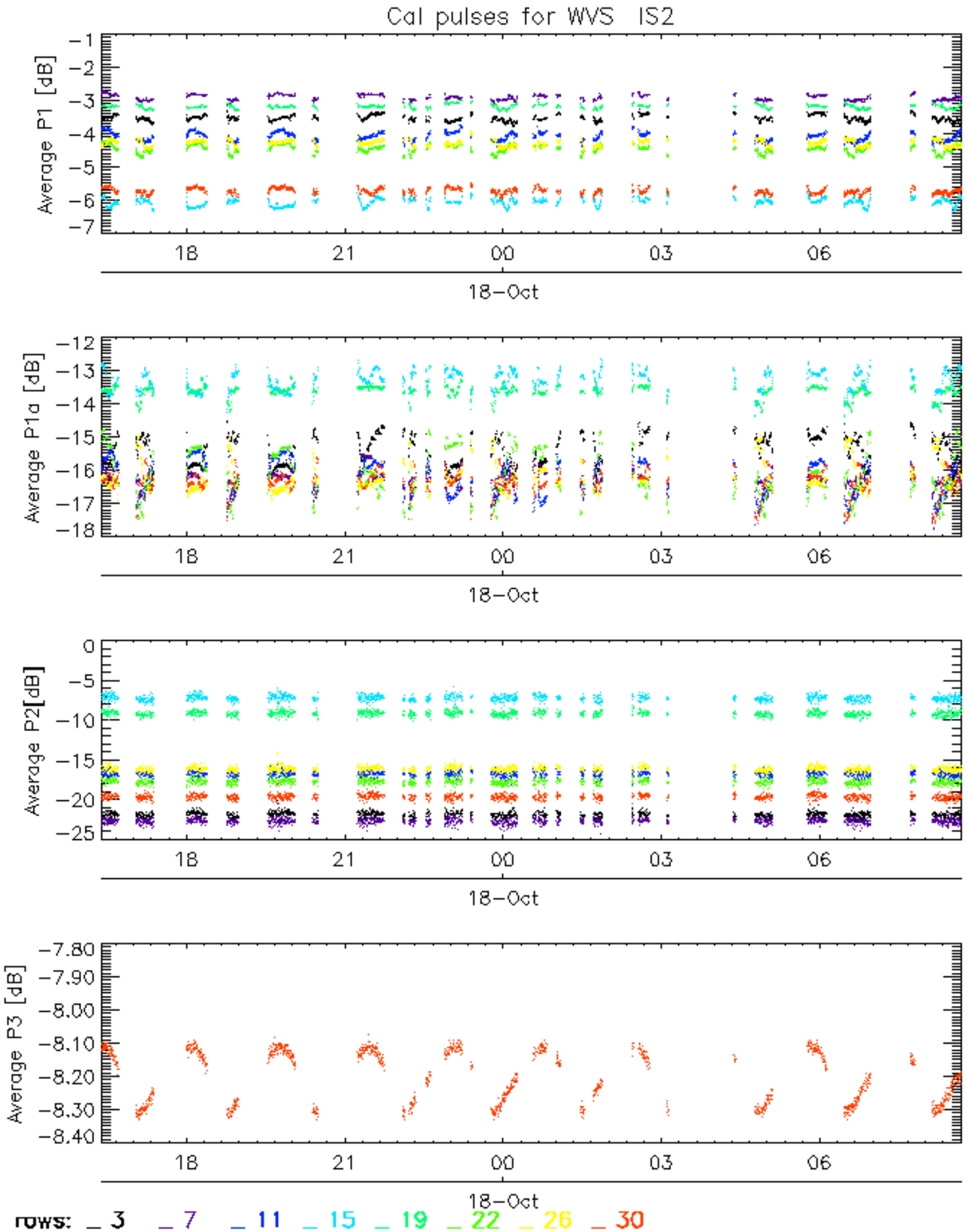

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
18−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
18−Oct
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
18−Oct
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
18−Oct
rows: _ 3 _ 7 _ 11 _ 15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


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

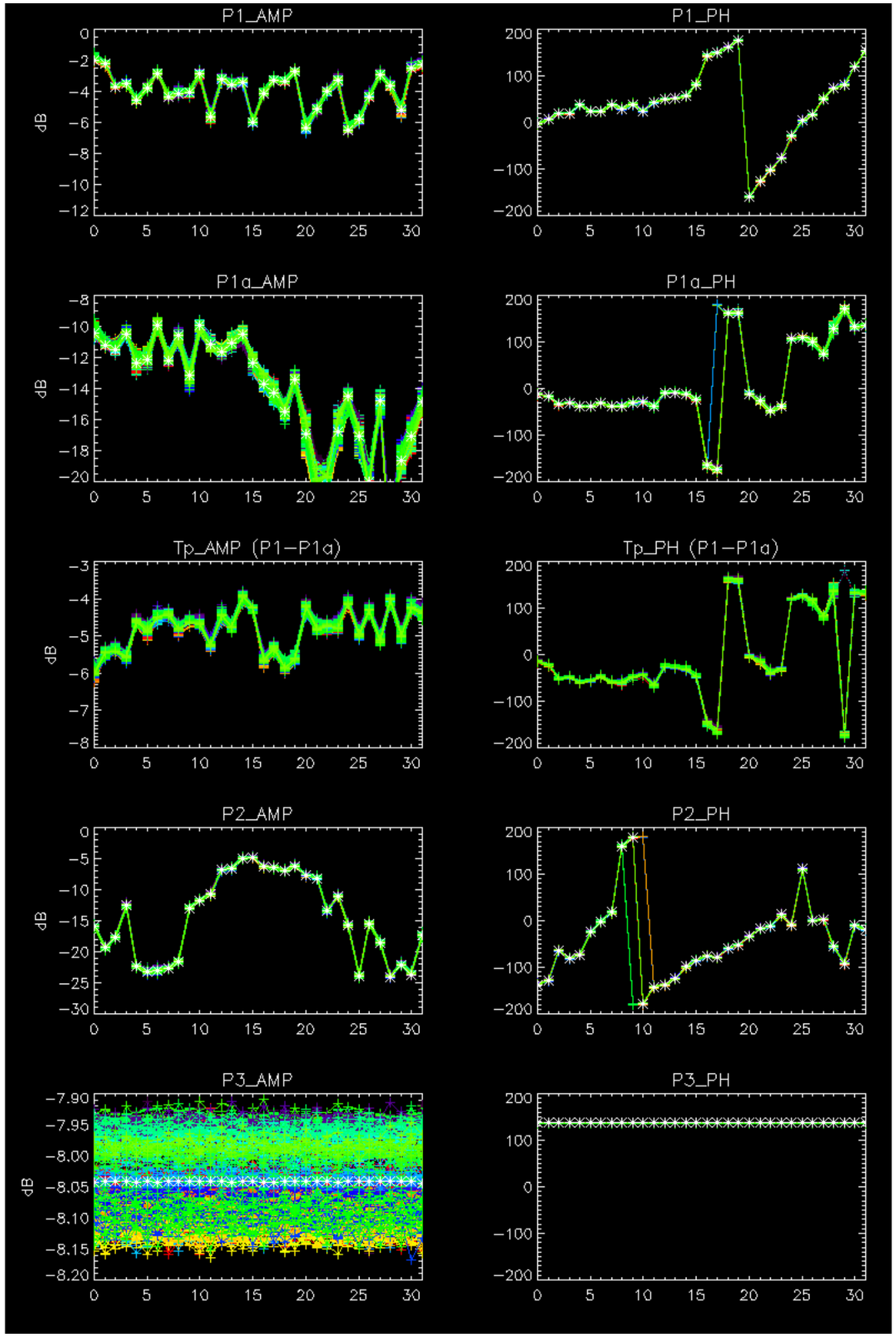

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
18−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
18−Oct
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
18−Oct
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
18−Oct
rows: _ 3 _ 7 _ 11 _ 15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

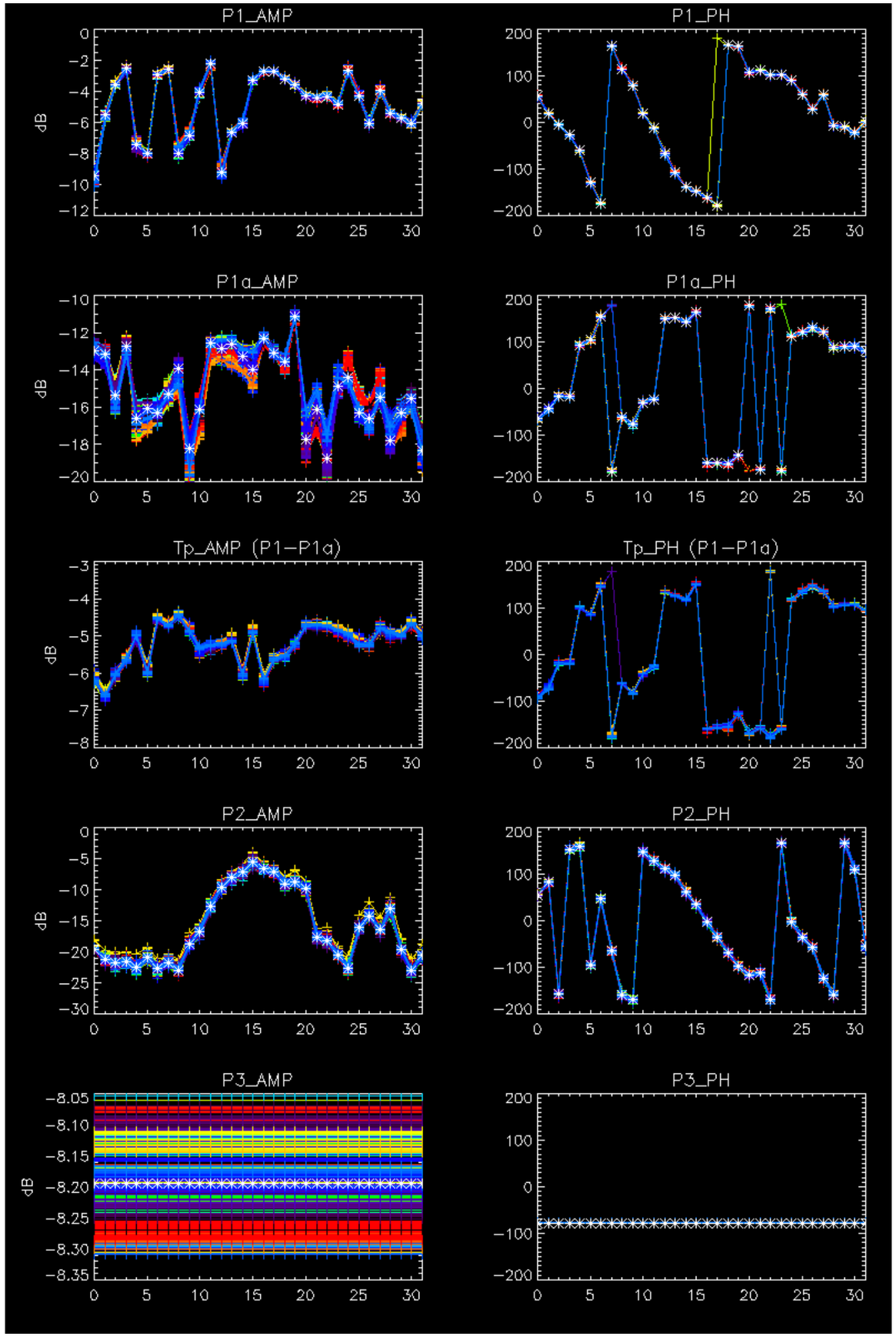

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
Average P1a [dB]
−10
−20
−30
−40
−50
Average P2 [dB]
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
18−Oct
Average P1a [dB]
−12
−13
−14
−15
−16
−17
−18
18
21
00
03
06
18−Oct
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
18−Oct
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
18−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

No anomalies observed on available browse products

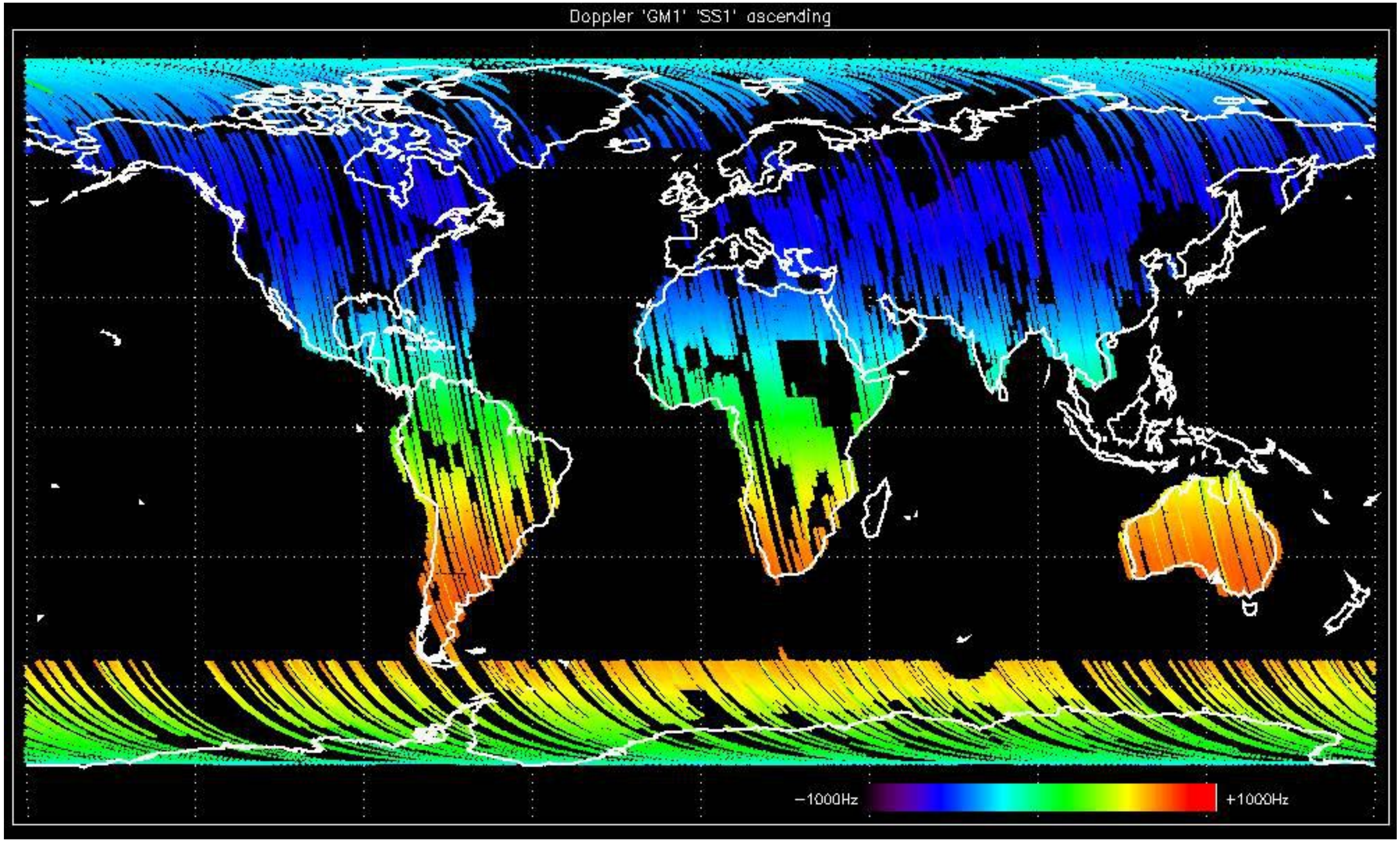
No anomalies observed.

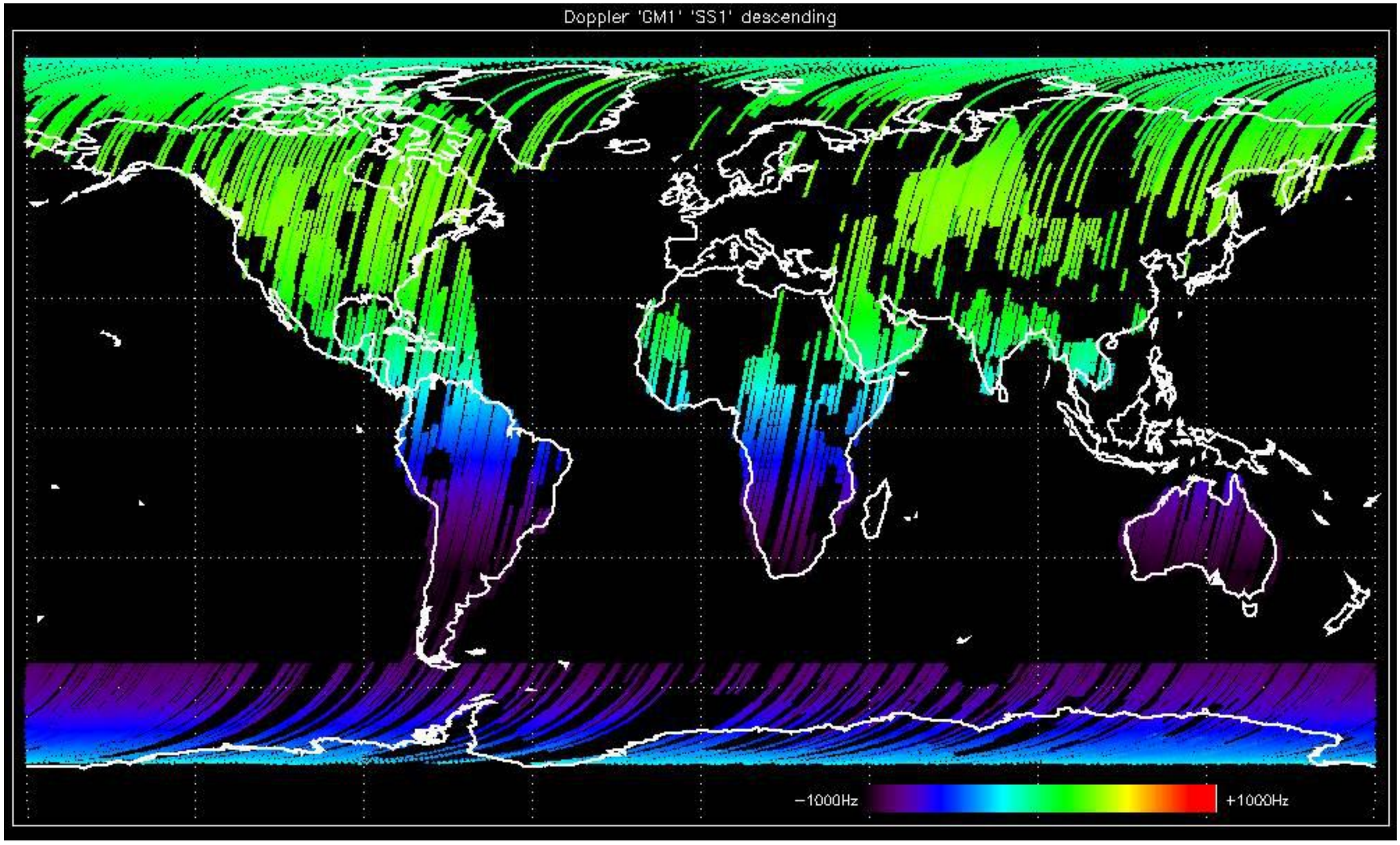

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

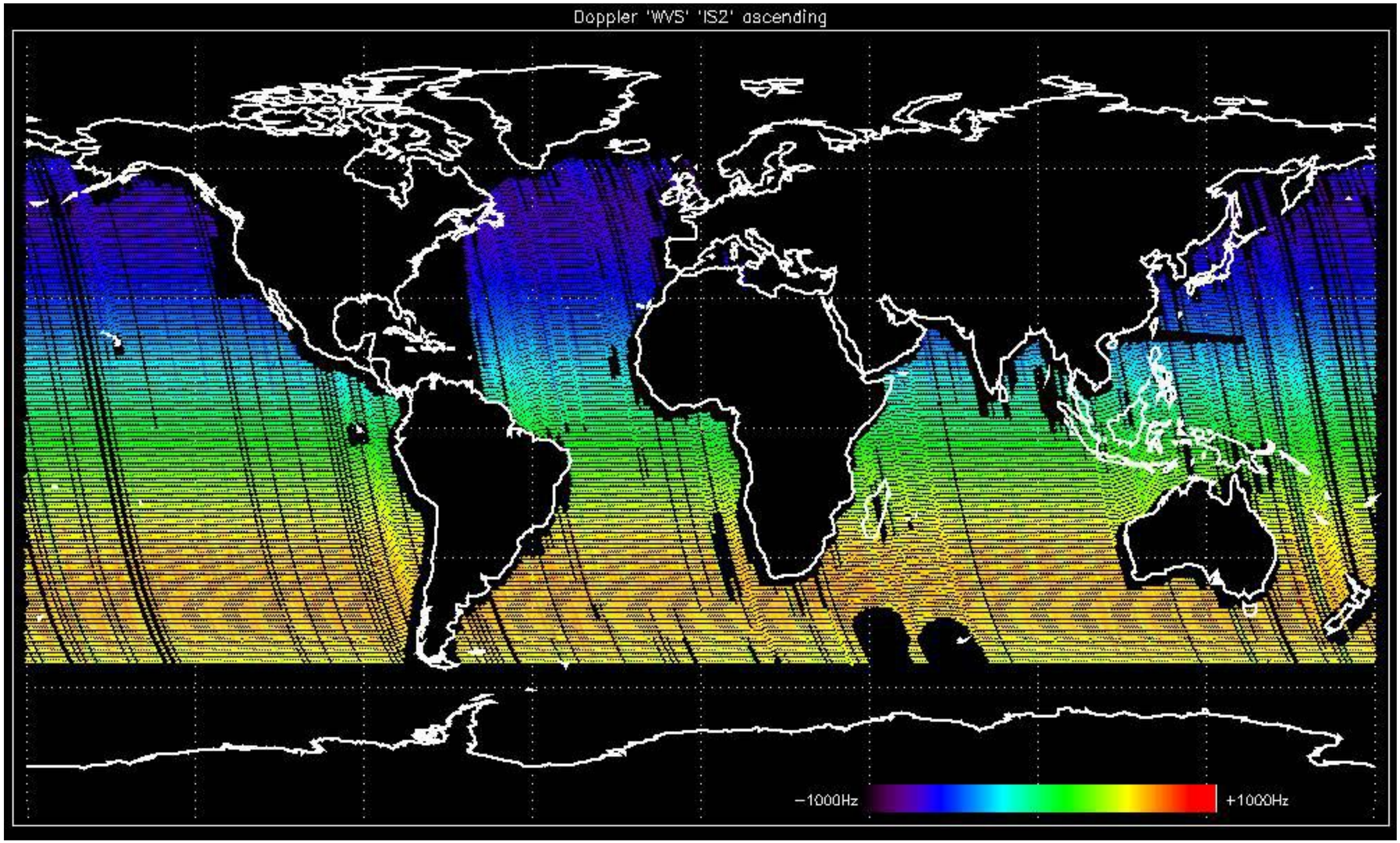

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

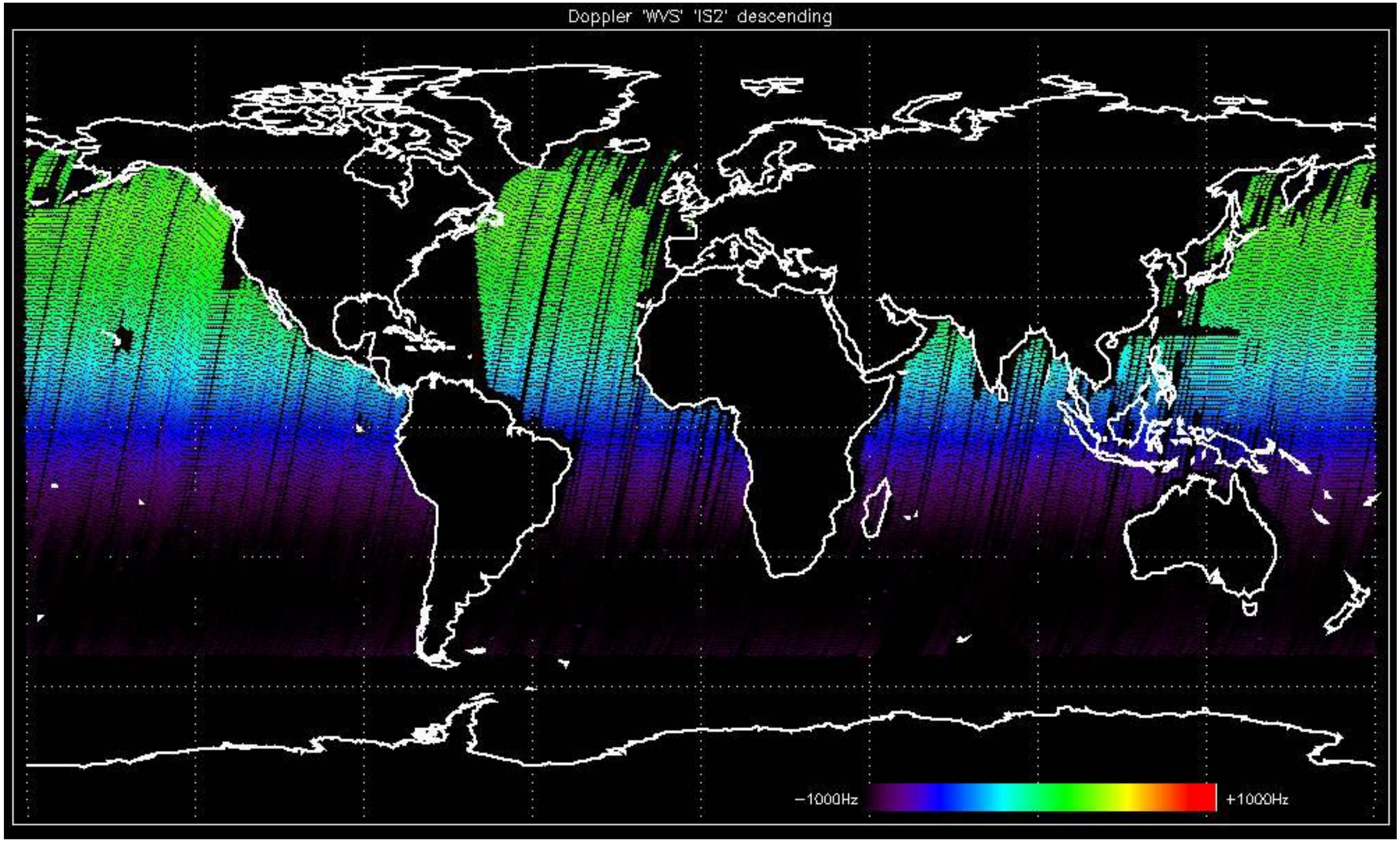
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

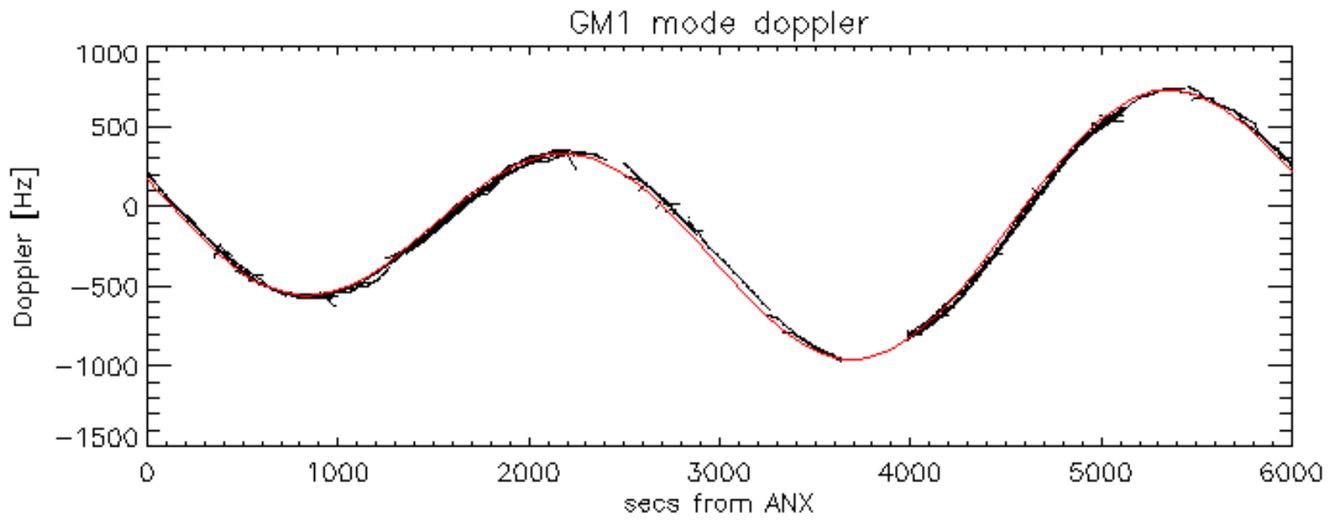
Preliminary report.The data is not yet controled

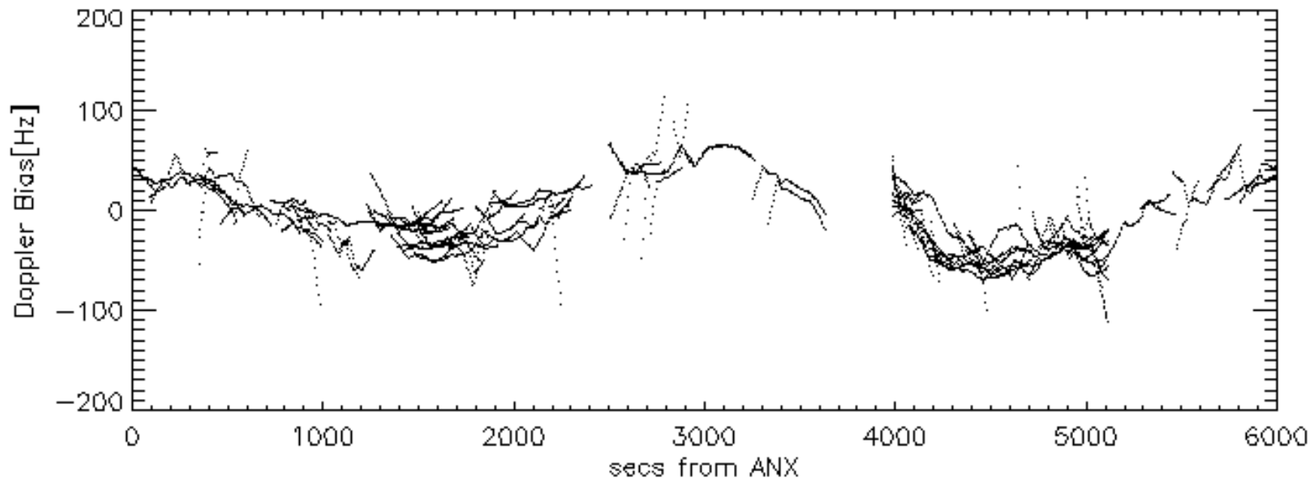

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

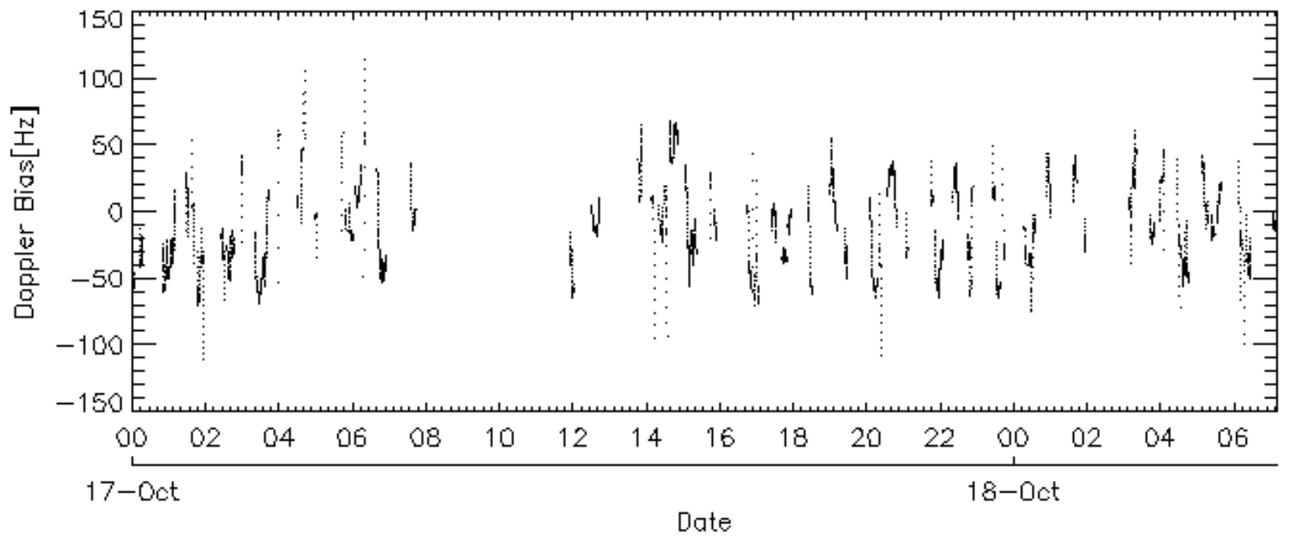

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

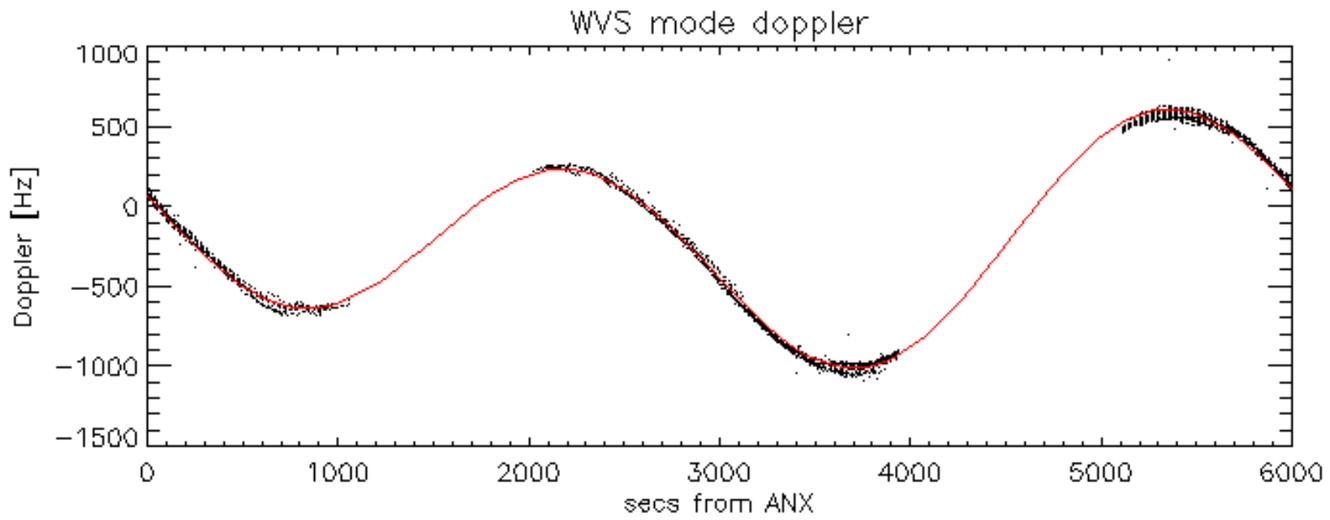

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

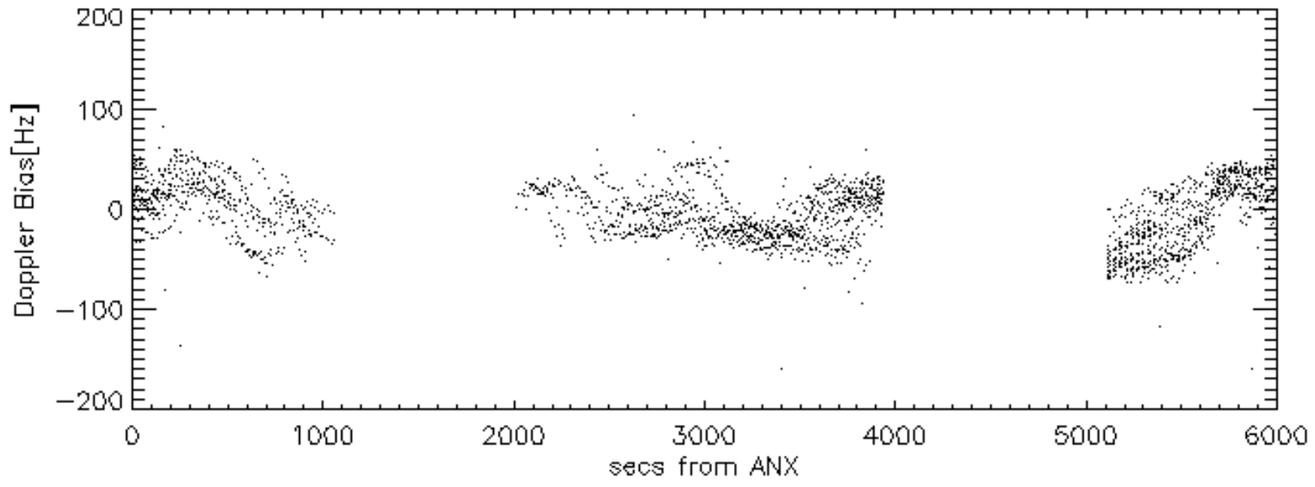

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

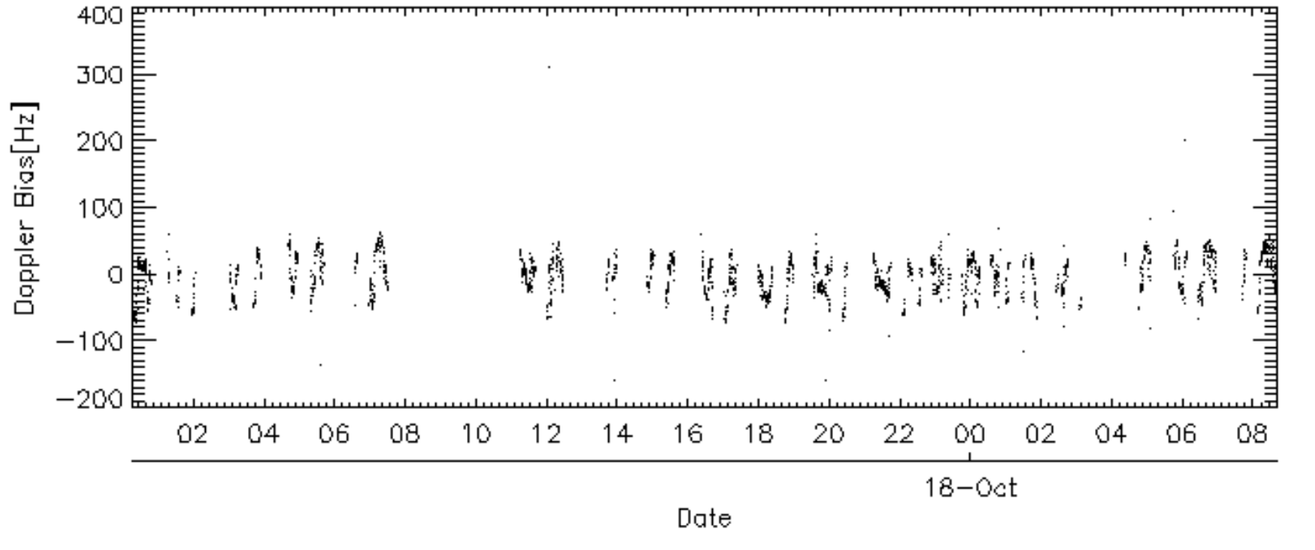

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

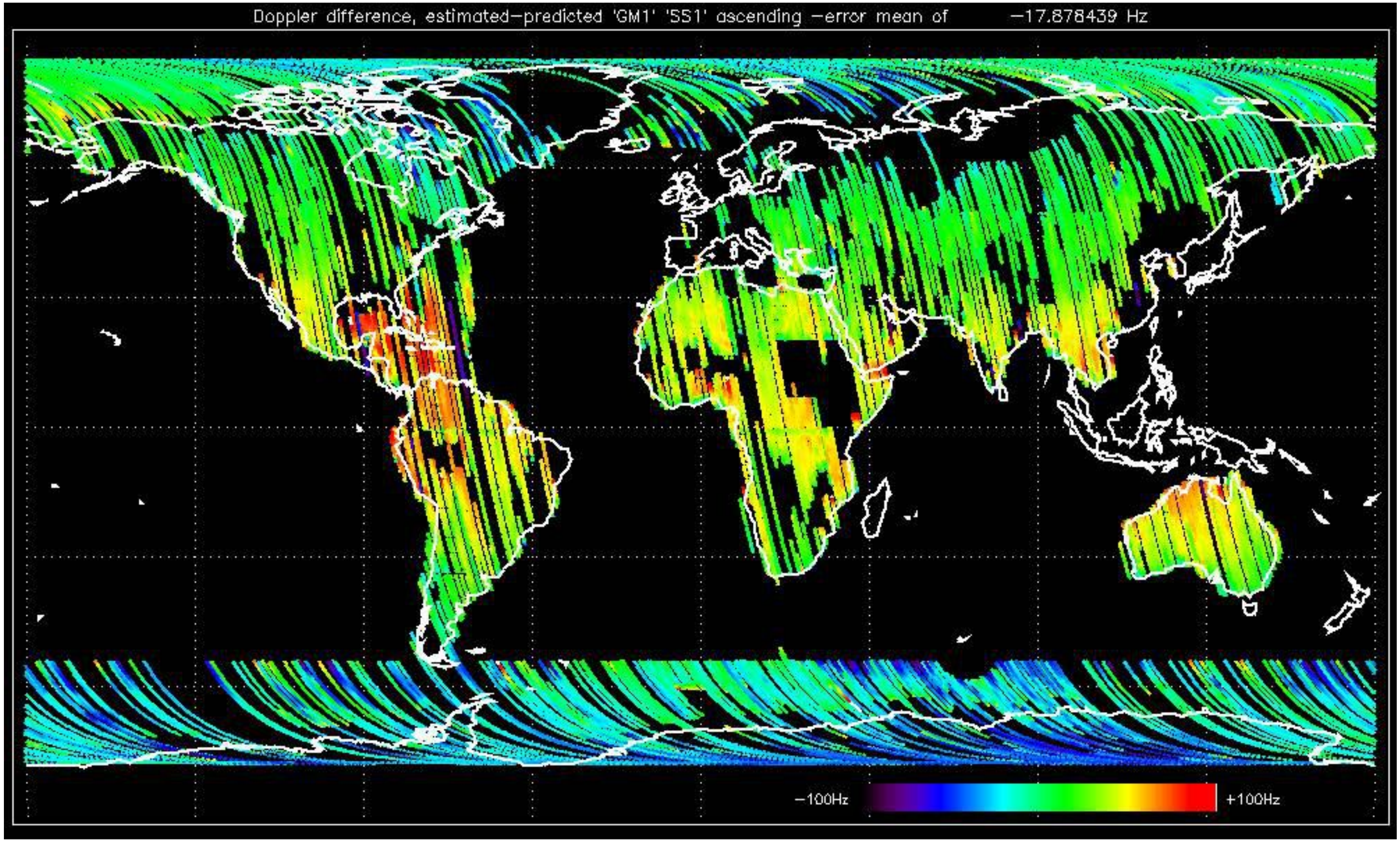

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

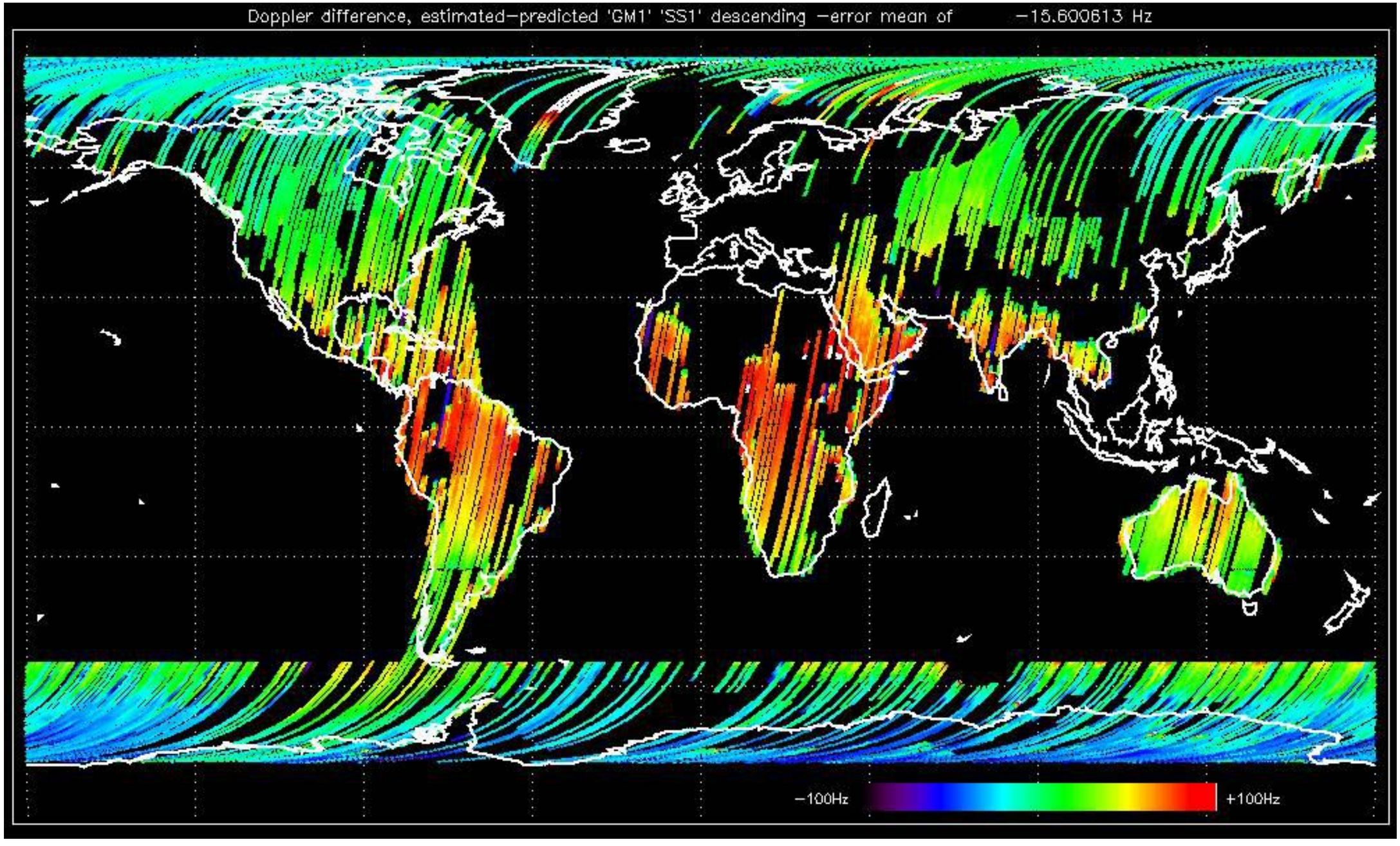

Doppler Bias[Hz]
150
100
50
0
−50
−100
−150
00
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
17−Oct
18−Oct
Date

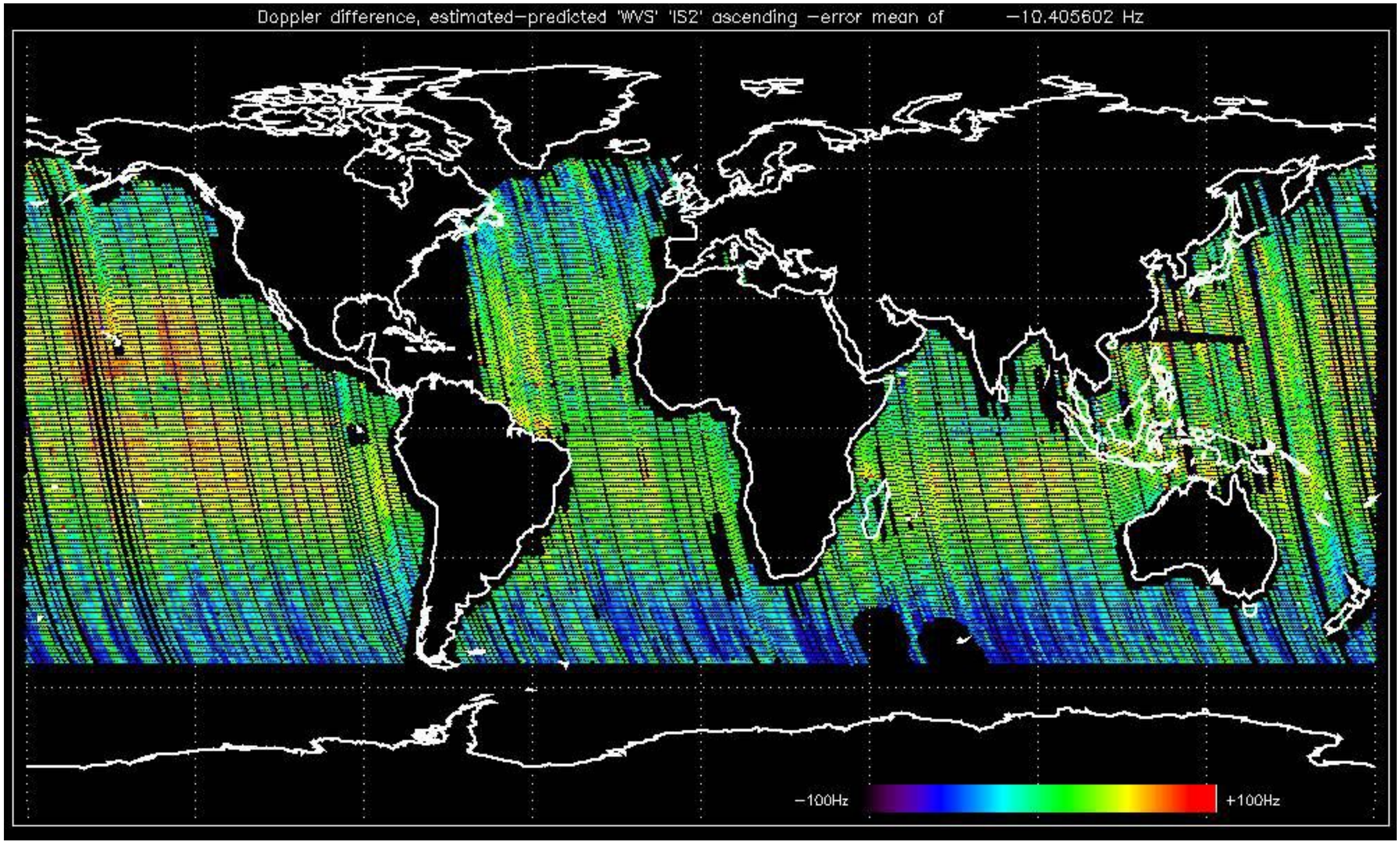

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

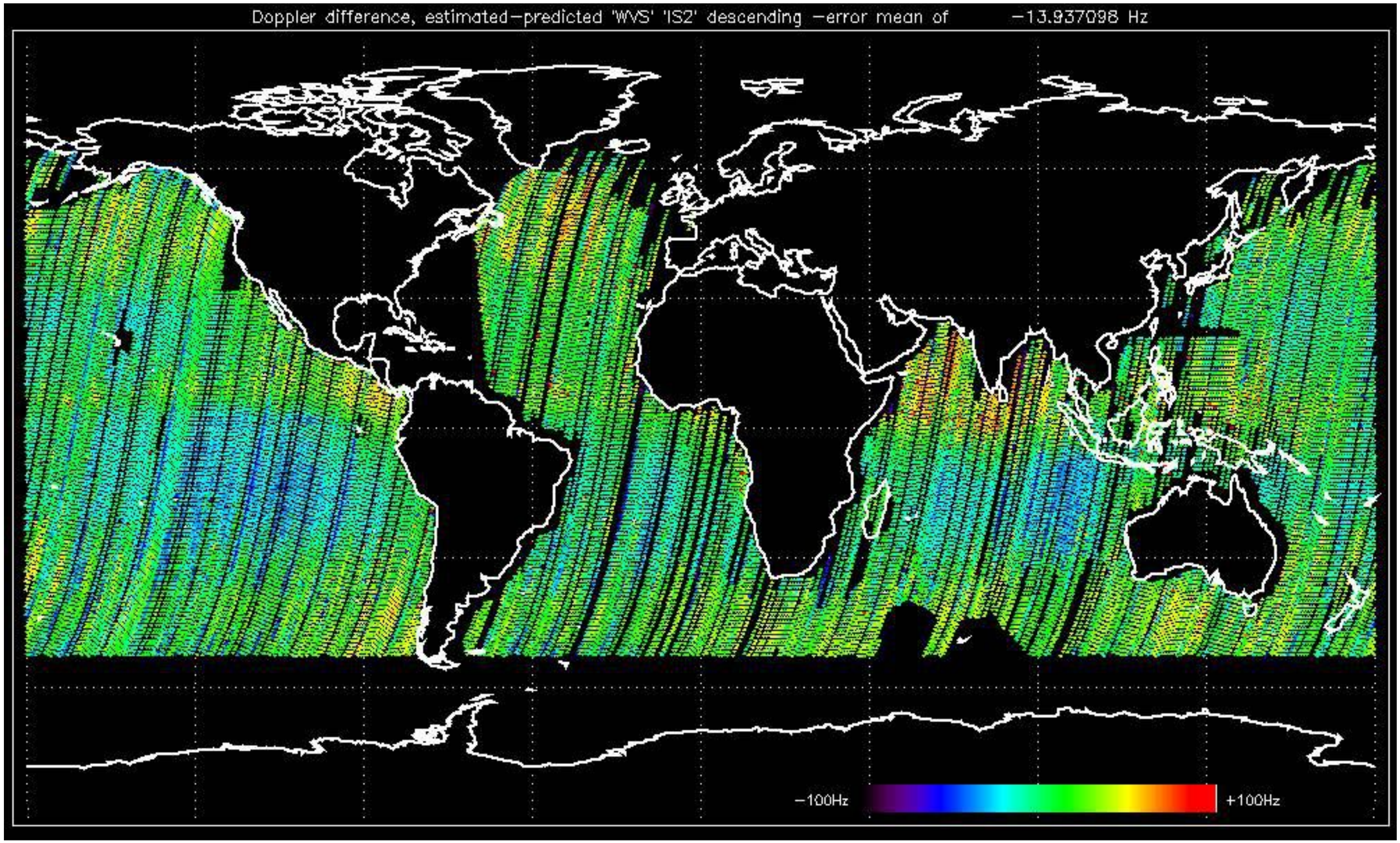

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


Doppler Bias[Hz]
400
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
18−Oct
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −17.878439 Hz
−100Hz
+100Hz

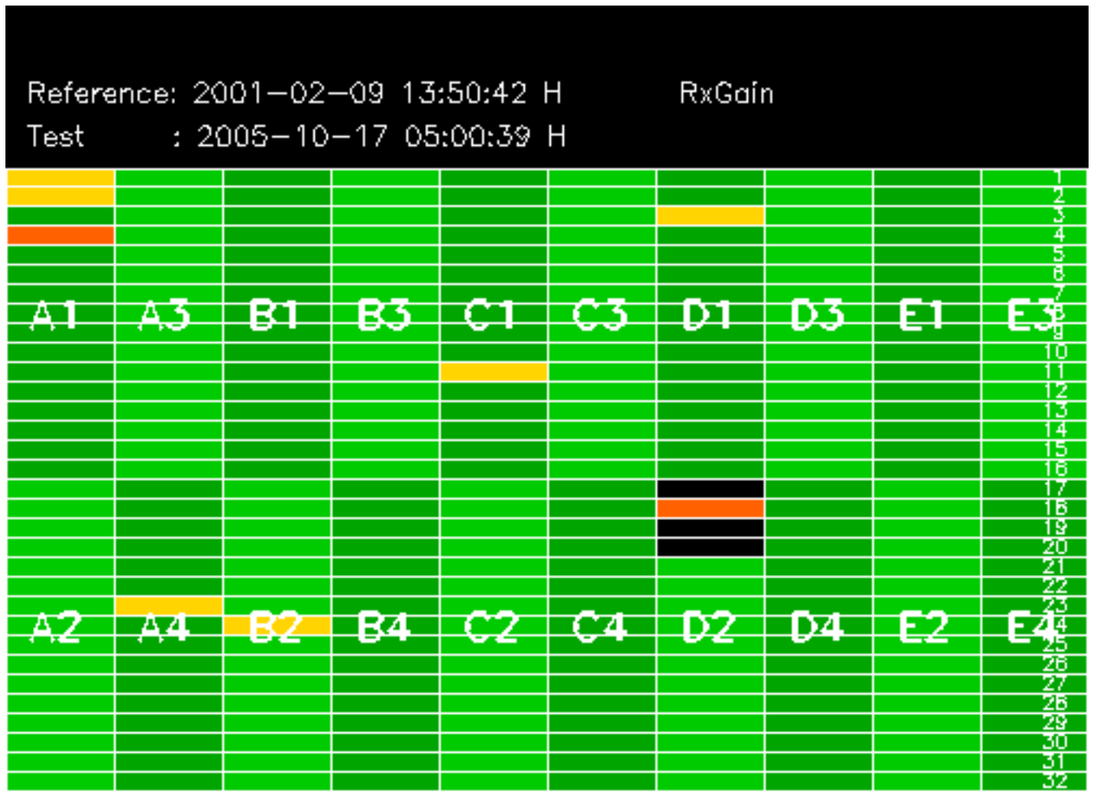

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −15.600613 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −10.405602 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −13.937098 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2005-10-17 05:00:39 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
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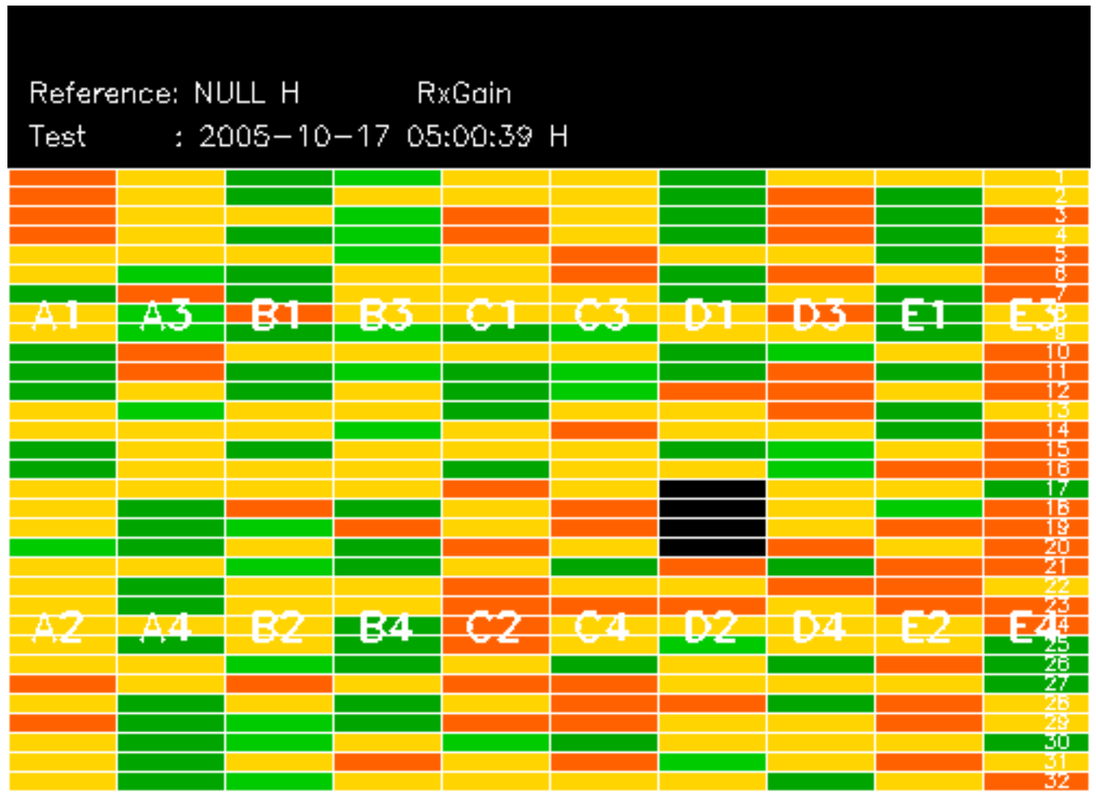
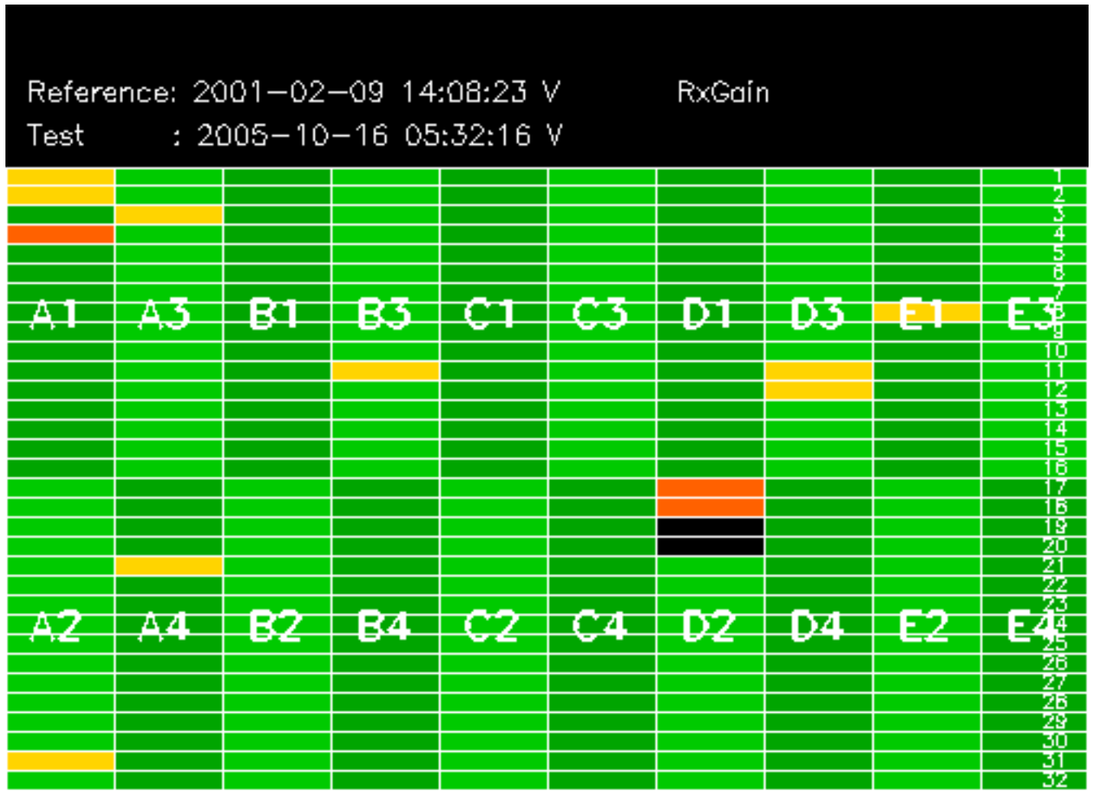
32


Reference: NULL H RxGain
Test : 2005-10-17 05:00:39 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 : 2005-10-16 05:32:16 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
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8
9
10
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14
15
16
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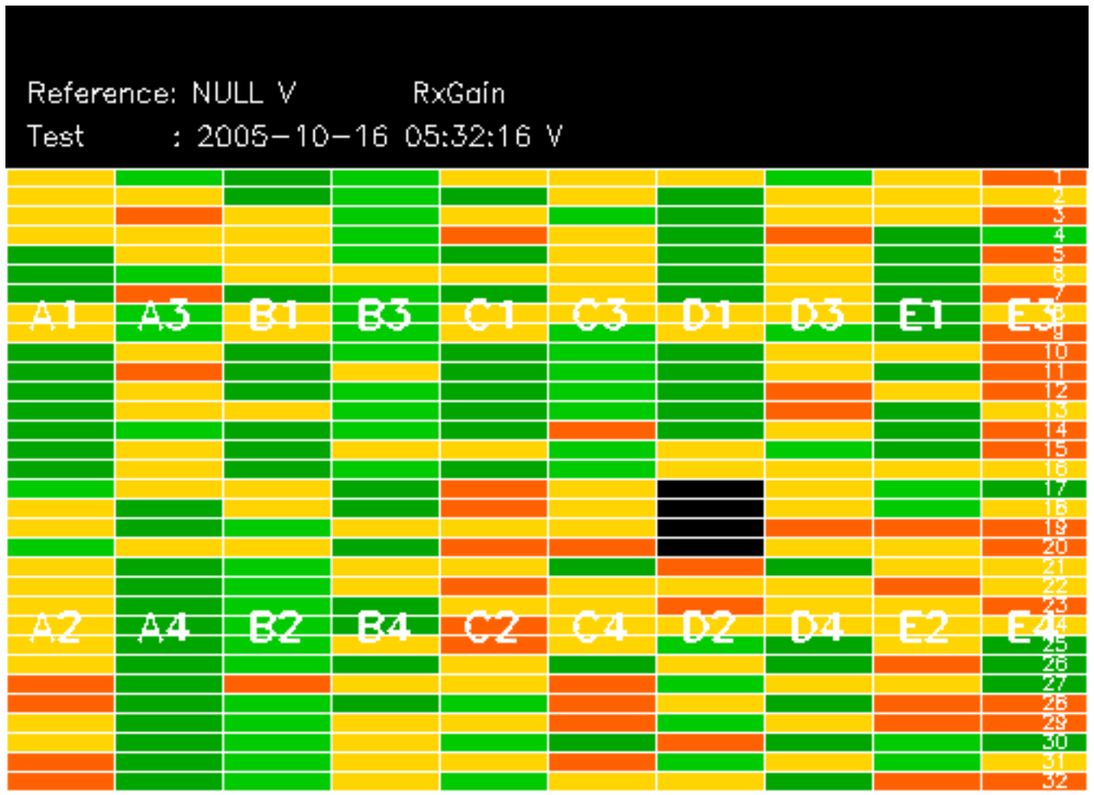
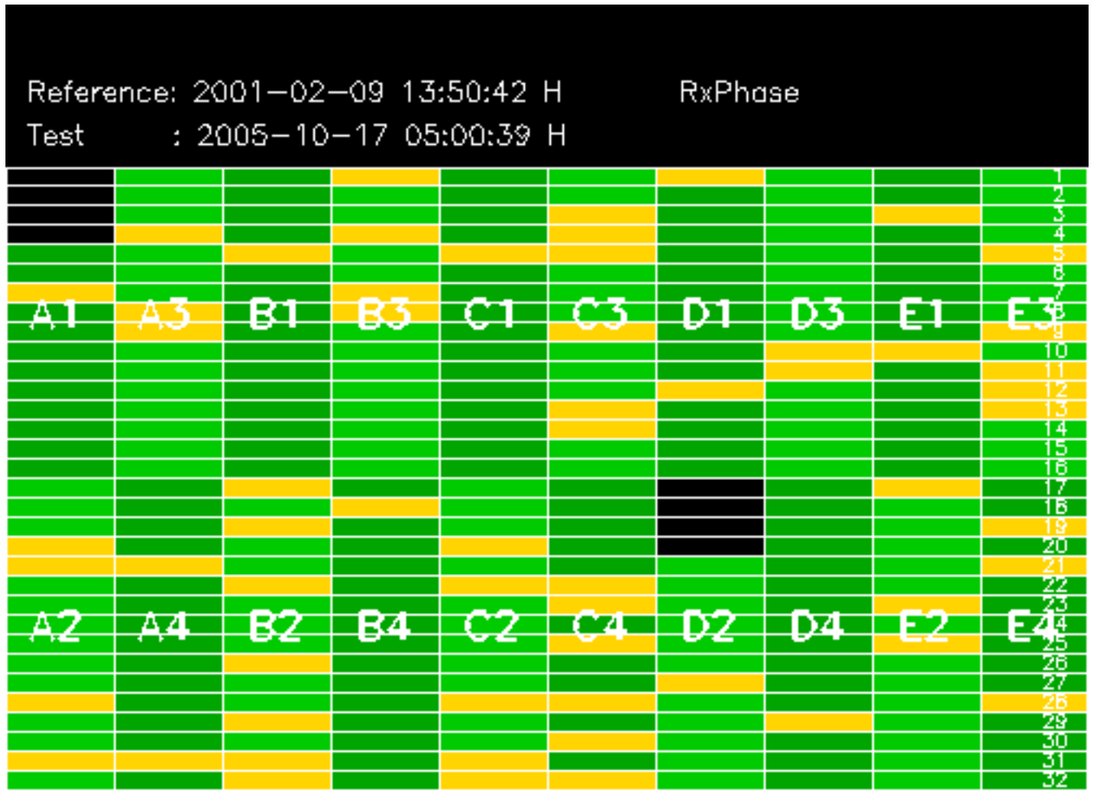
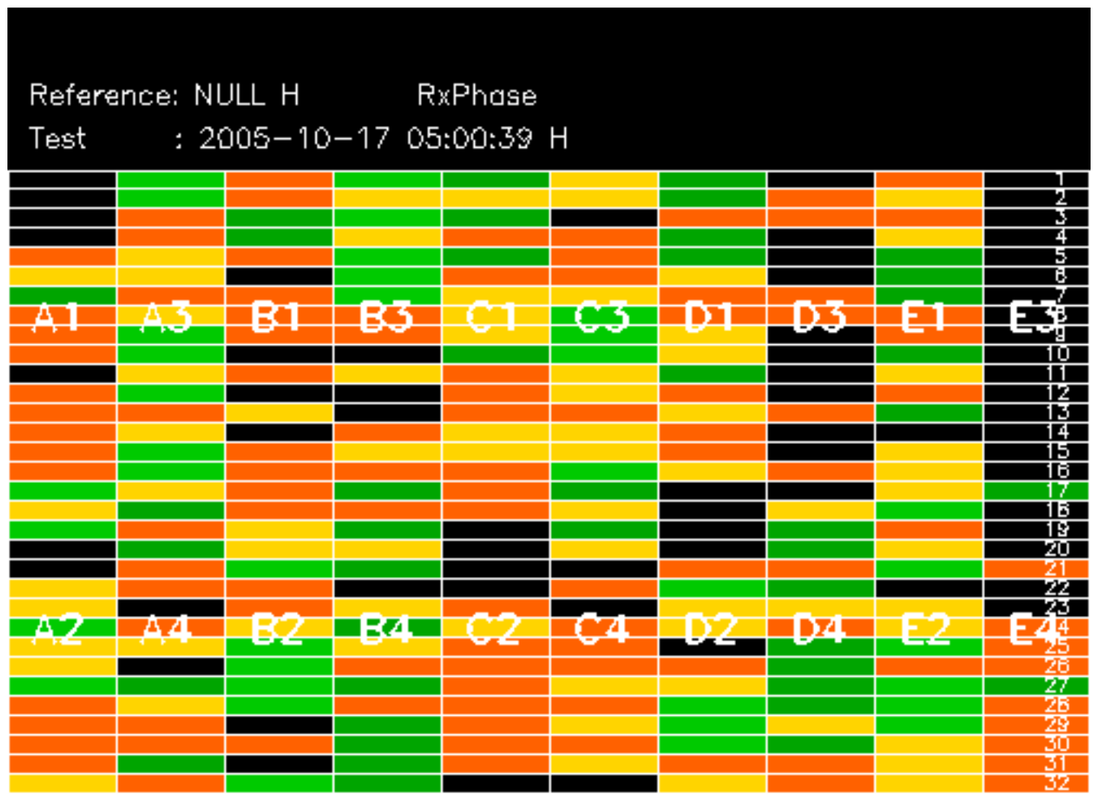
32


Reference: NULL V RxGain
Test : 2005-10-16 05:32:16 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 : 2005-10-17 05:00:39 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 : 2005-10-17 05:00:39 H
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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8
9
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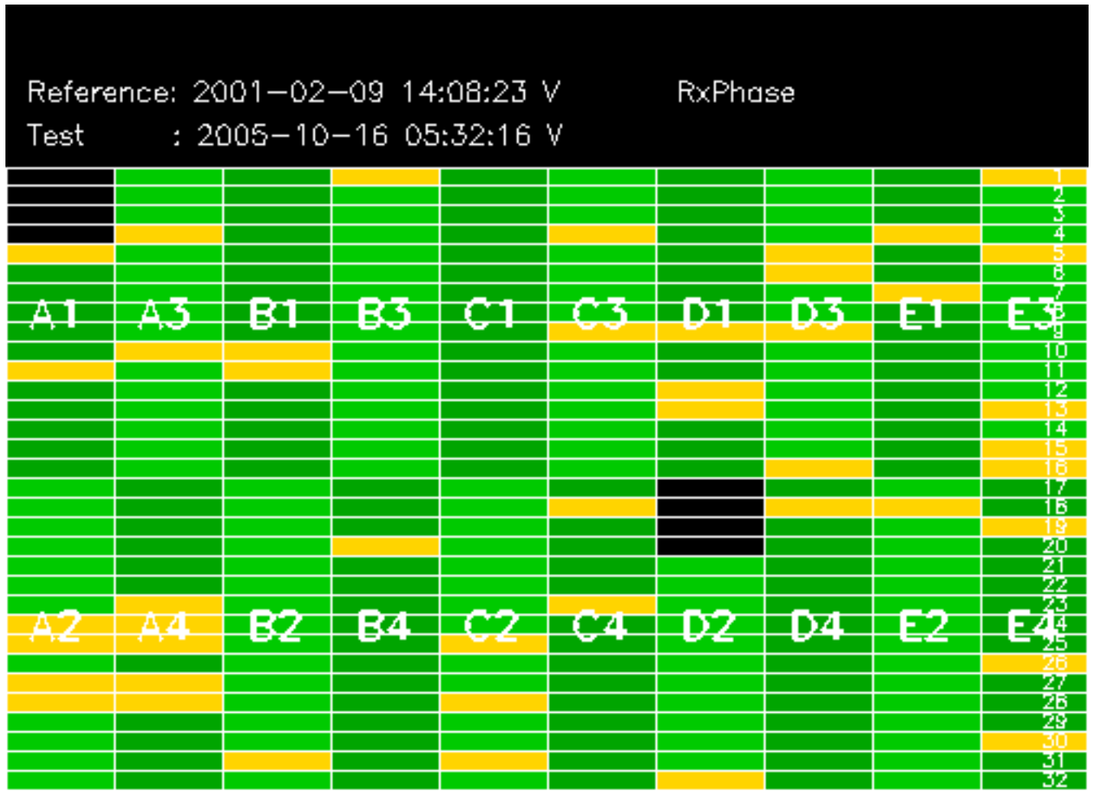
32


Reference: 2001-02-09 14:08:23 V
Test : 2005-10-16 05:32:16 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
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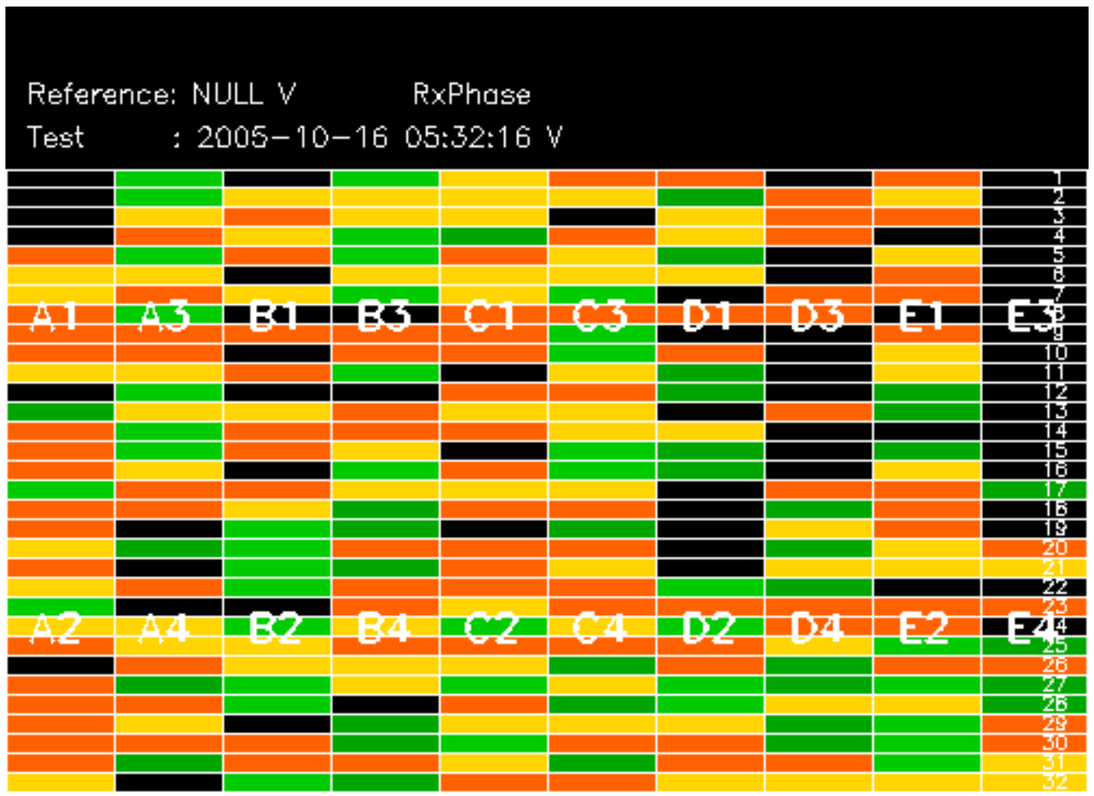
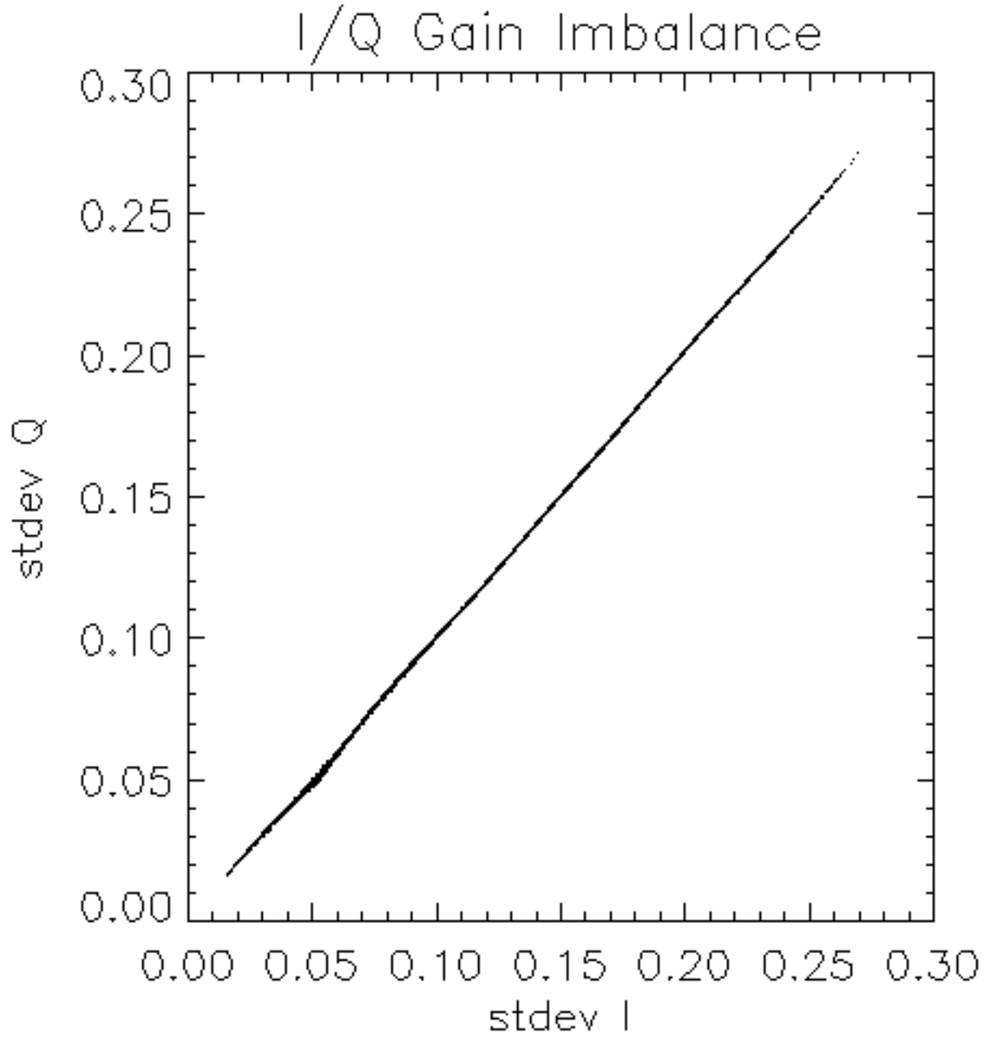
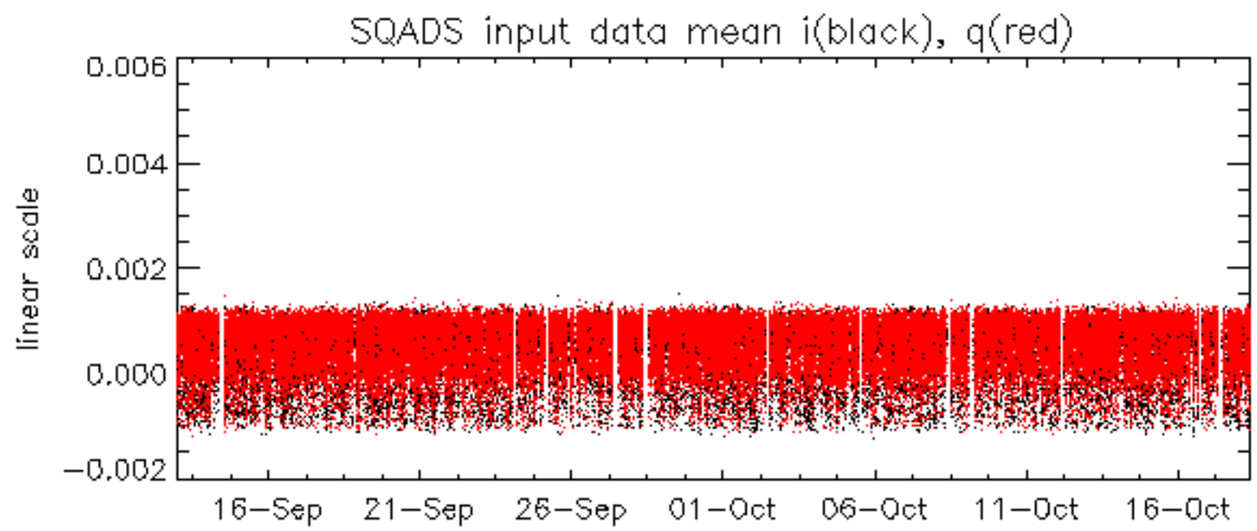
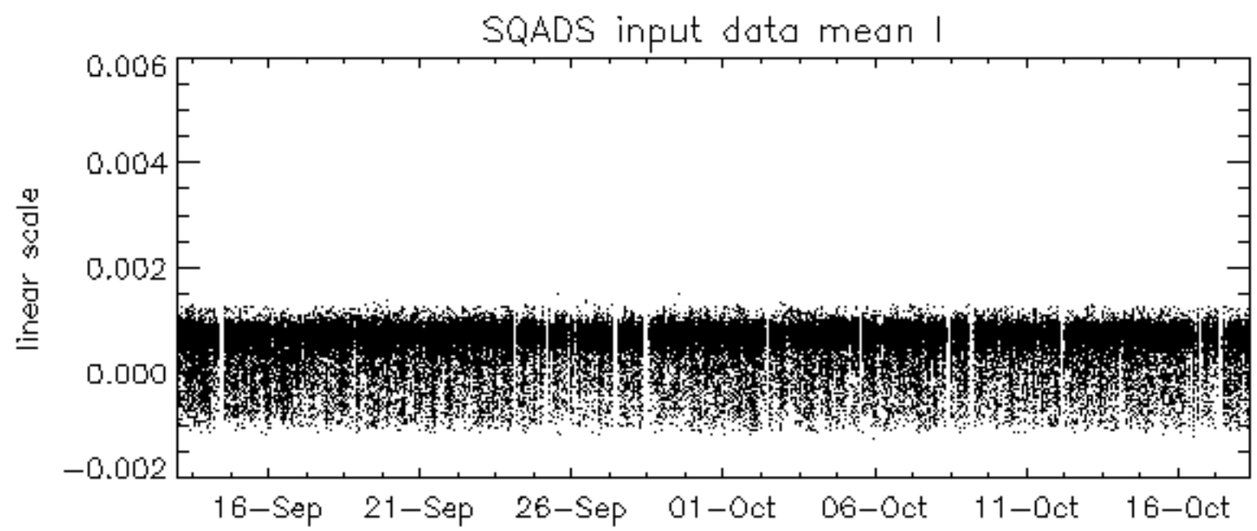
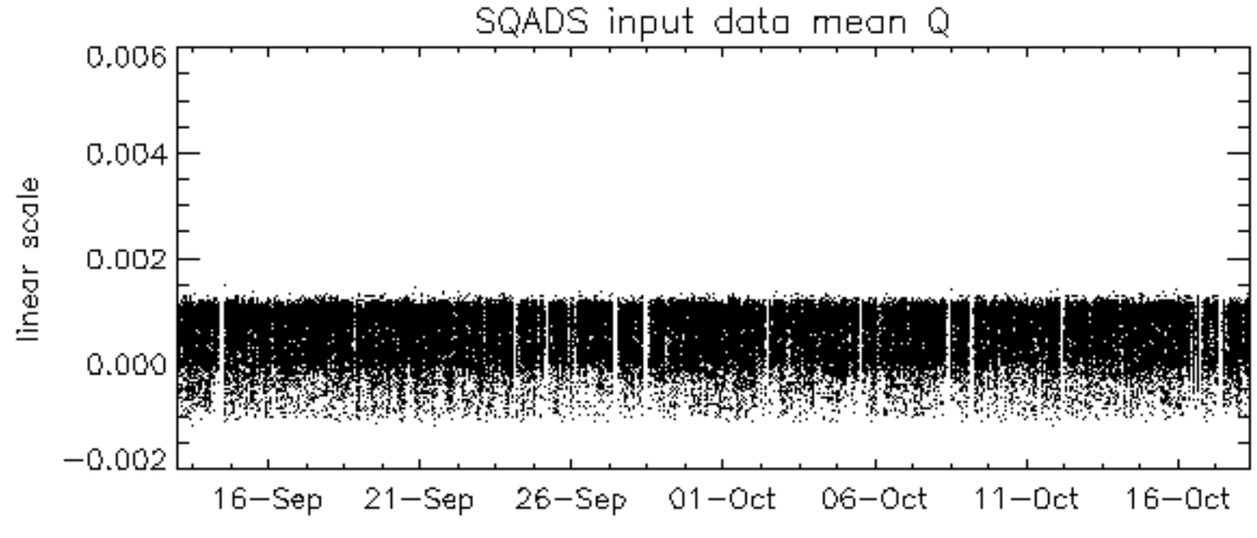
32

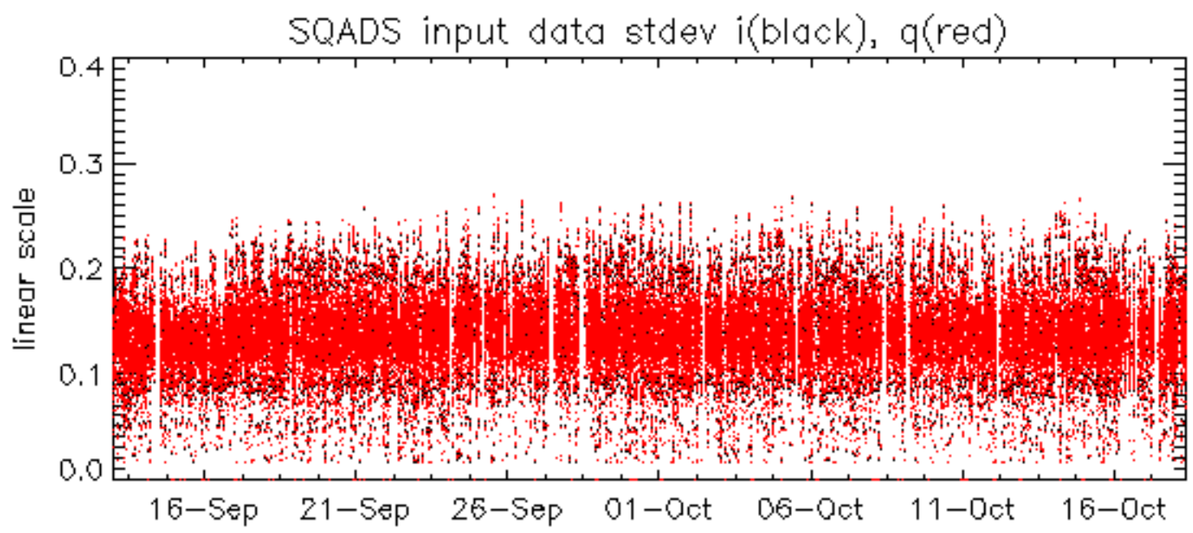

Reference: NULL V RxPhase
Test : 2005-10-16 05:32:16 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

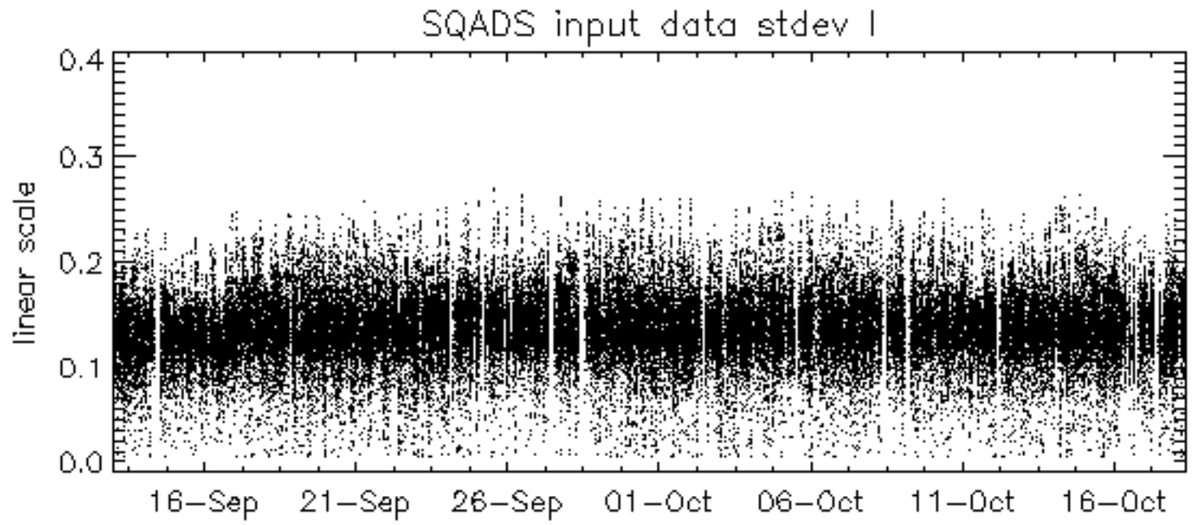

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

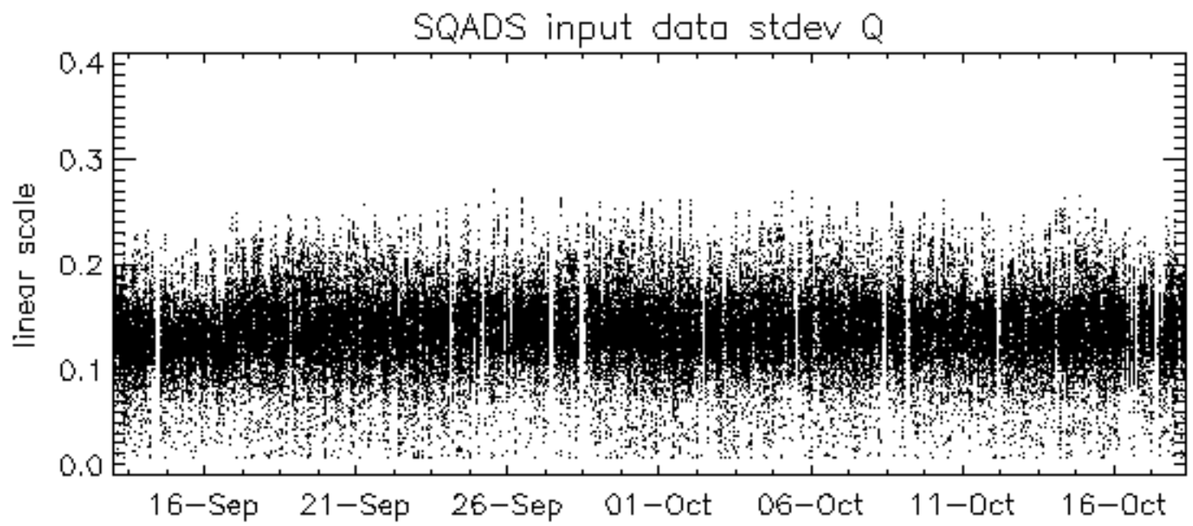

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct

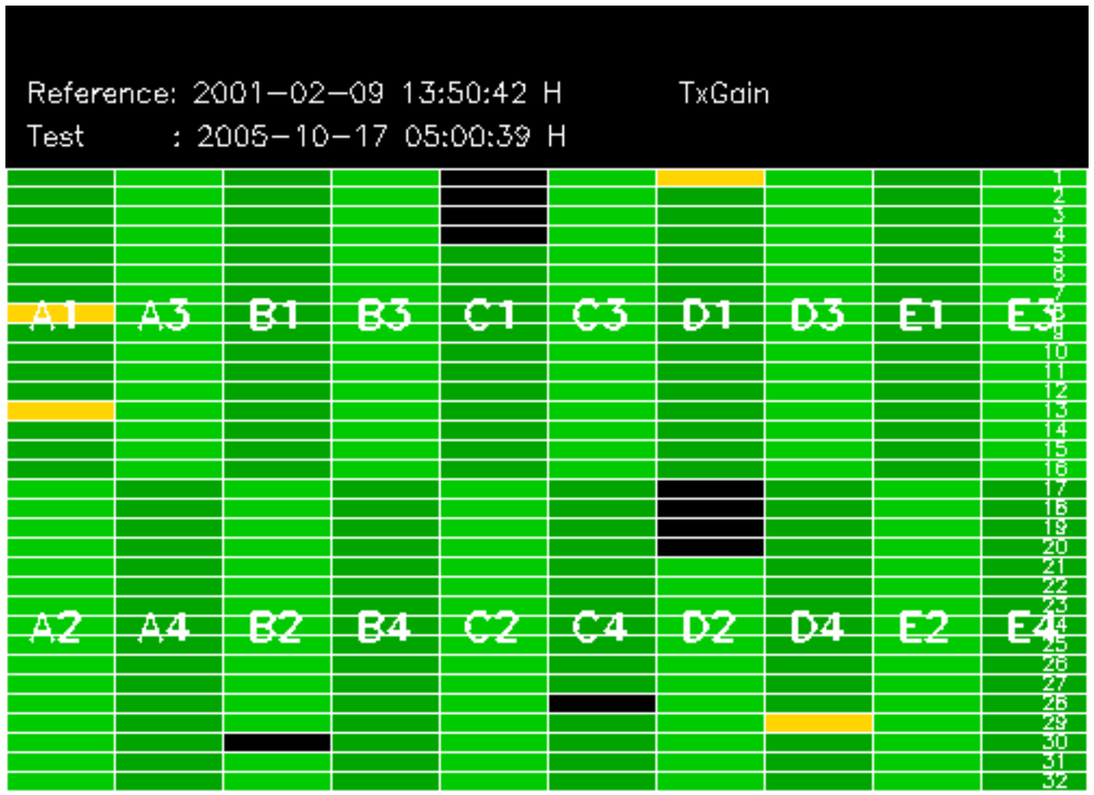

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct


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 : 2005-10-17 05:00:39 H
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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9
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29
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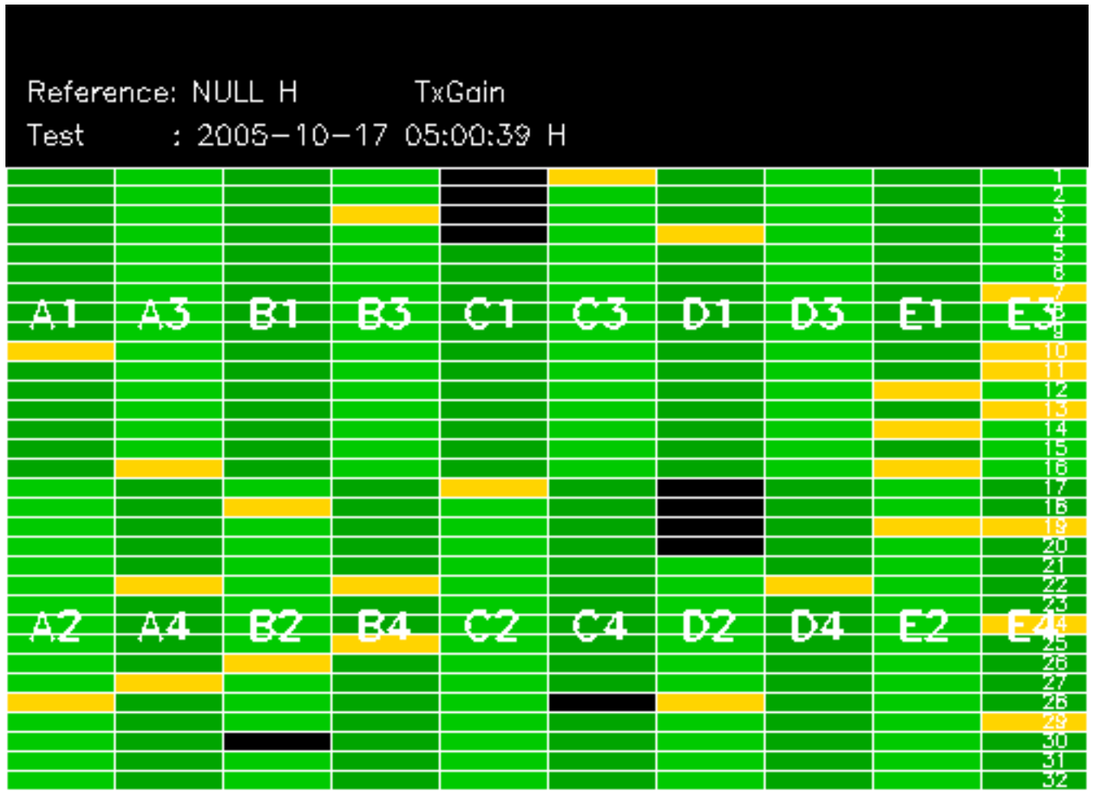
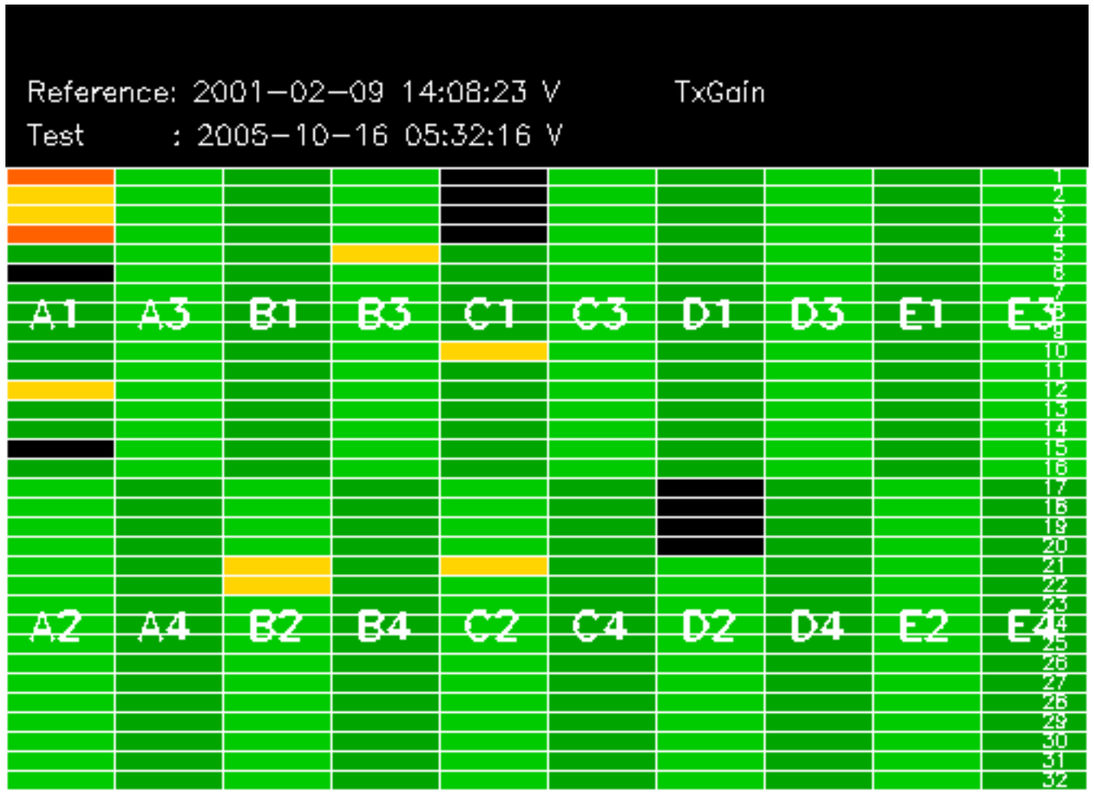
31
32


Reference: NULL H TxGain
Test : 2005-10-17 05:00:39 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 : 2005-10-16 05:32:16 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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26
27
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31
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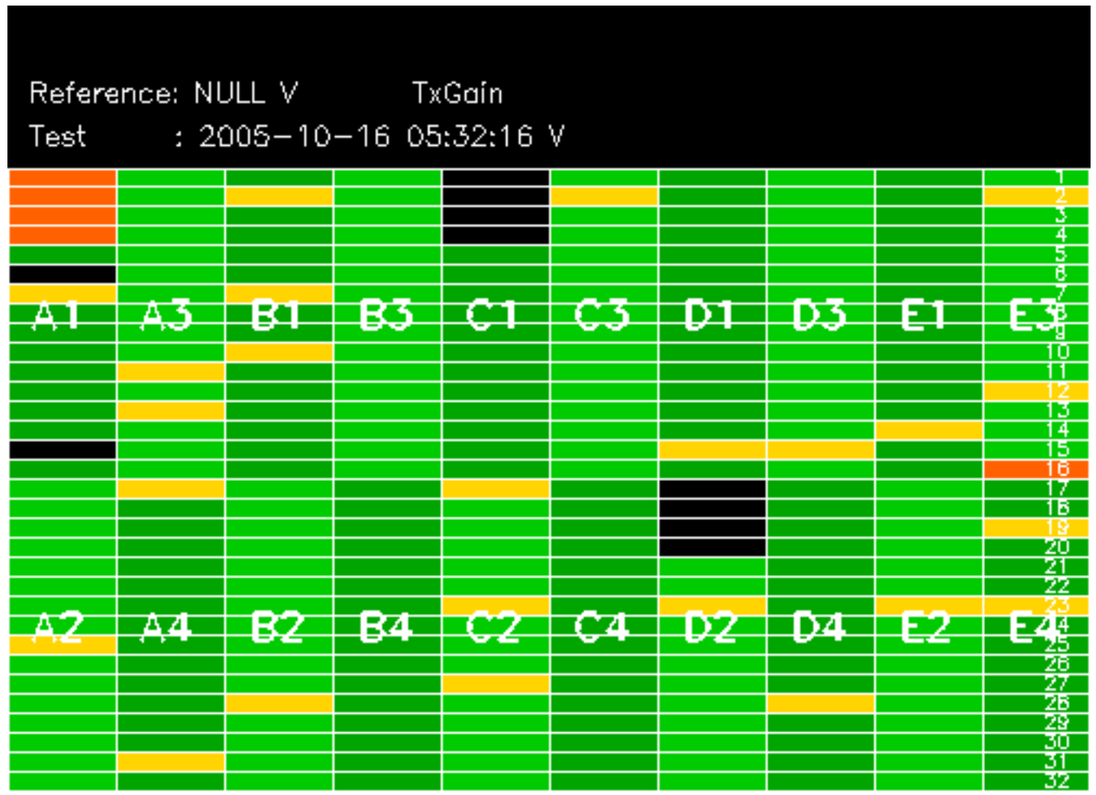
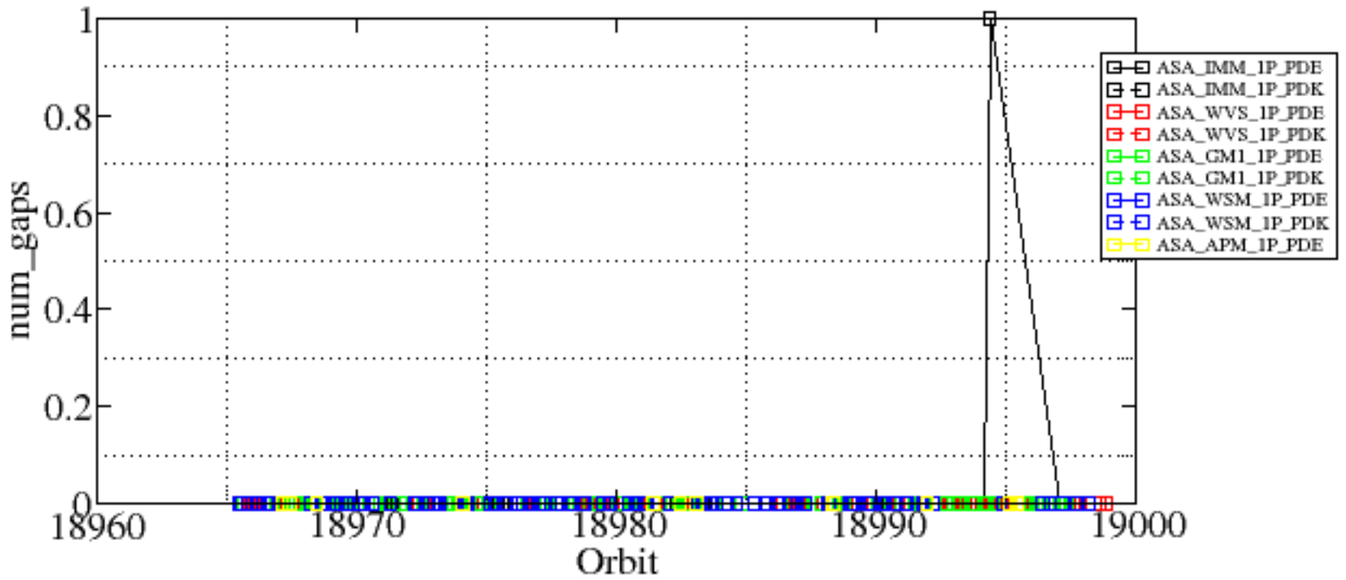
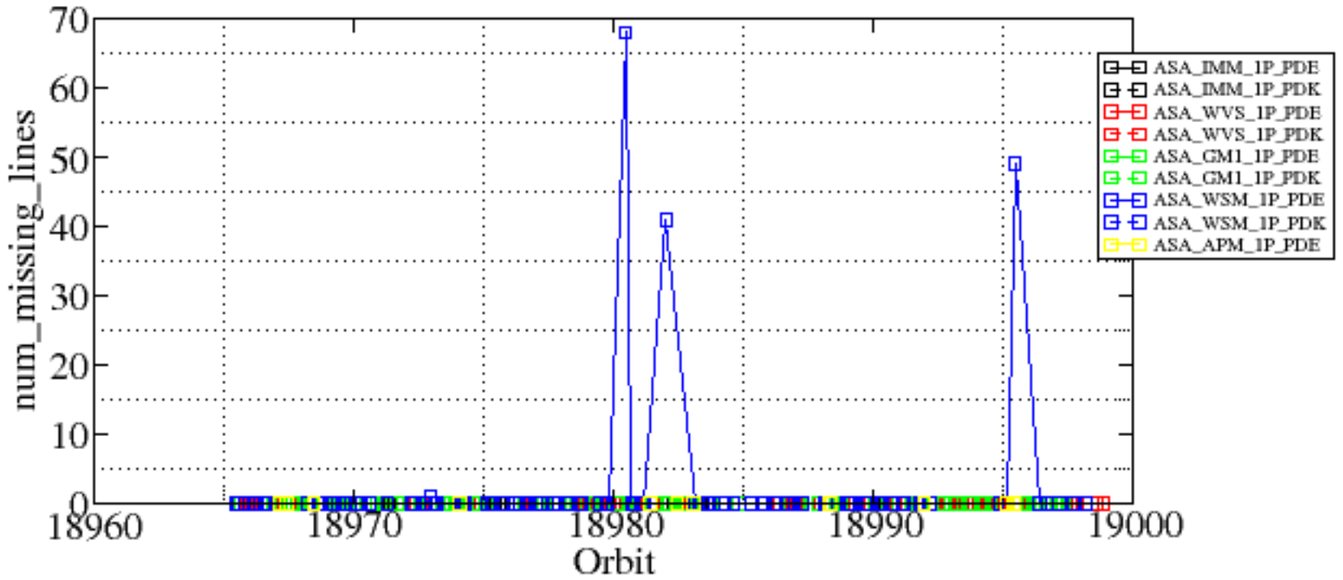
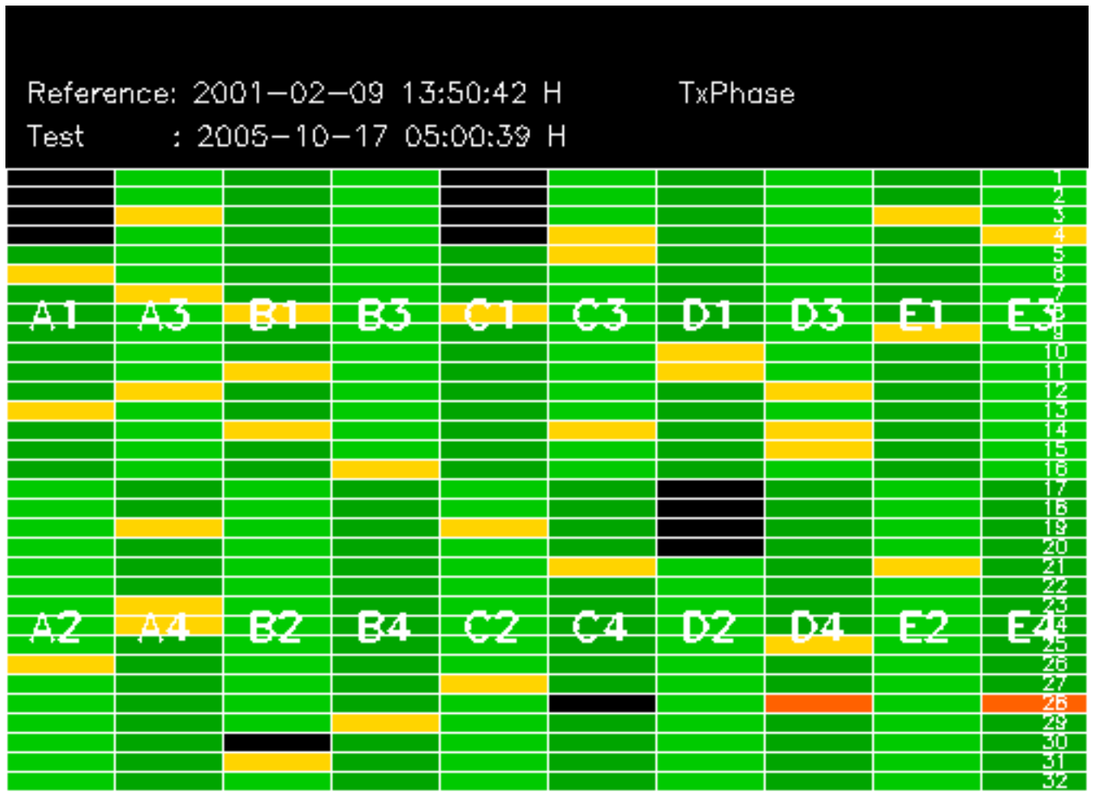

Reference: NULL V TxGain
Test : 2005-10-16 05:32:16 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

Summary of analysis for the last 3 days 2005101[678]
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_1PNPDE20051018_003757_000000842041_00403_18994_8685.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051017_011919_000003912041_00389_18980_4497.N1 </td> <td>0 </td> <td>68 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051017_035606_000001472041_00391_18982_4517.N1 </td> <td>0 </td> <td>41 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051018_022852_000002392041_00404_18995_4709.N1 </td> <td>0 </td> <td>49 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20051016_124418_000001832041_00381_18972_7198.N1 </td> <td>0 </td> <td>1 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20051016_124420_000001282041_00381_18972_7244.N1 </td> <td>0 </td> <td>1 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
18960
18970
18980
18990
19000
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
70
60
50
40
30
20
10
0
18960
18970
18980
18990
19000
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 : 2005-10-17 05:00:39 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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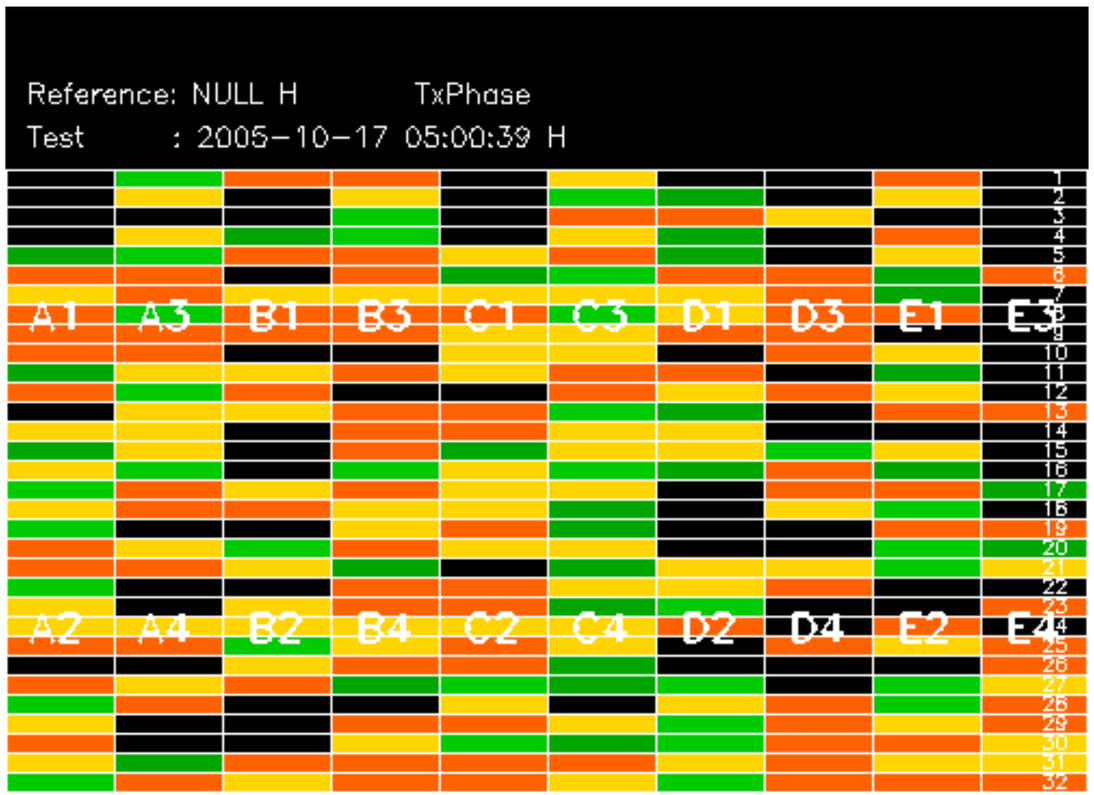
Reference: NULL H TxPhase
Test : 2005-10-17 05:00:39 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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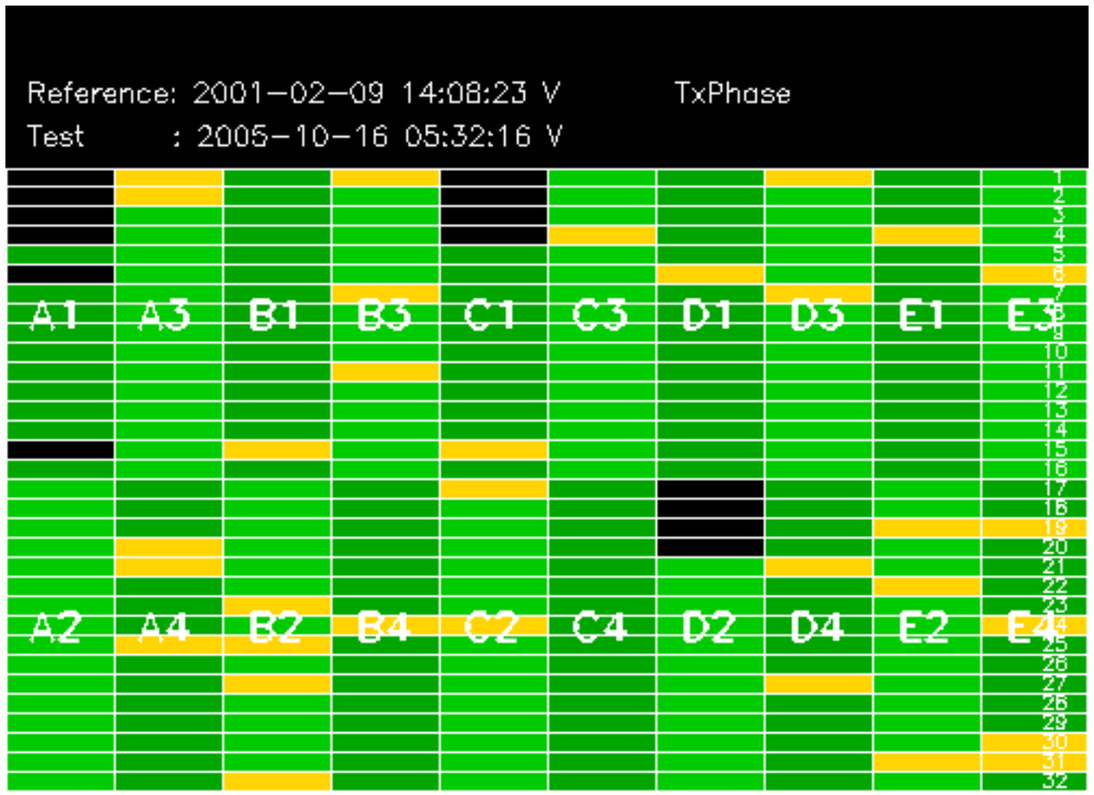
Reference: 2001-02-09 14:08:23 V
Test : 2005-10-16 05:32:16 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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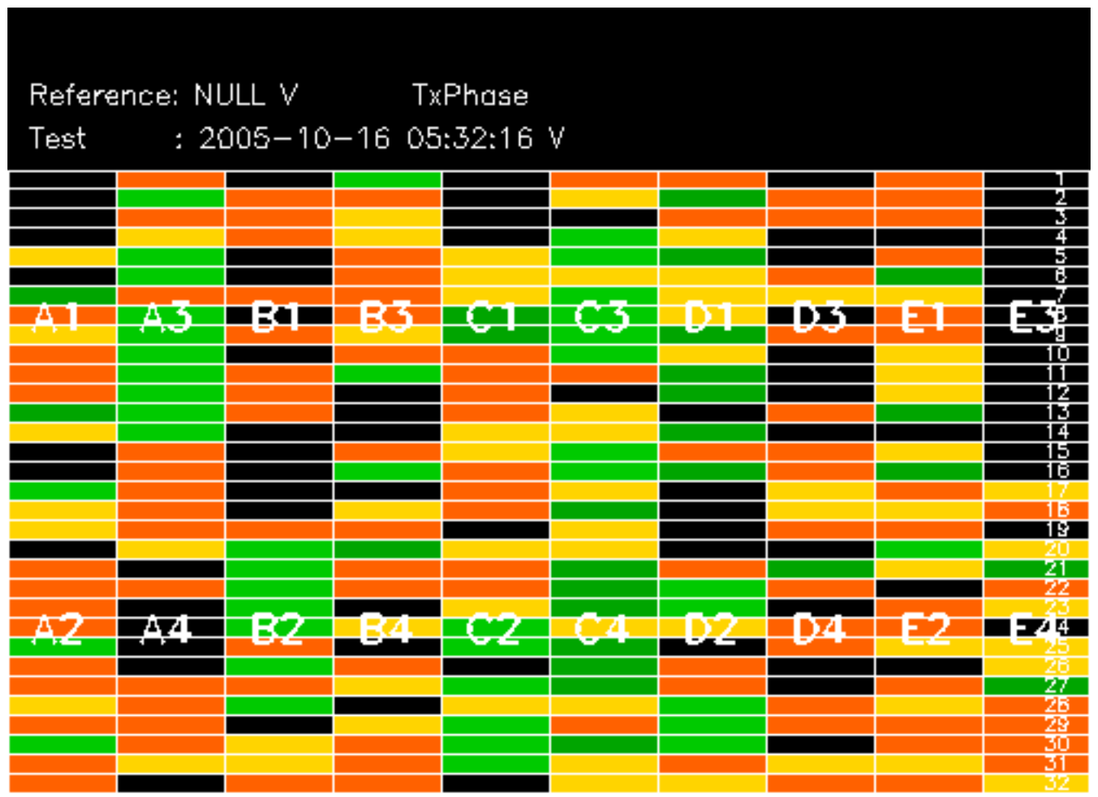
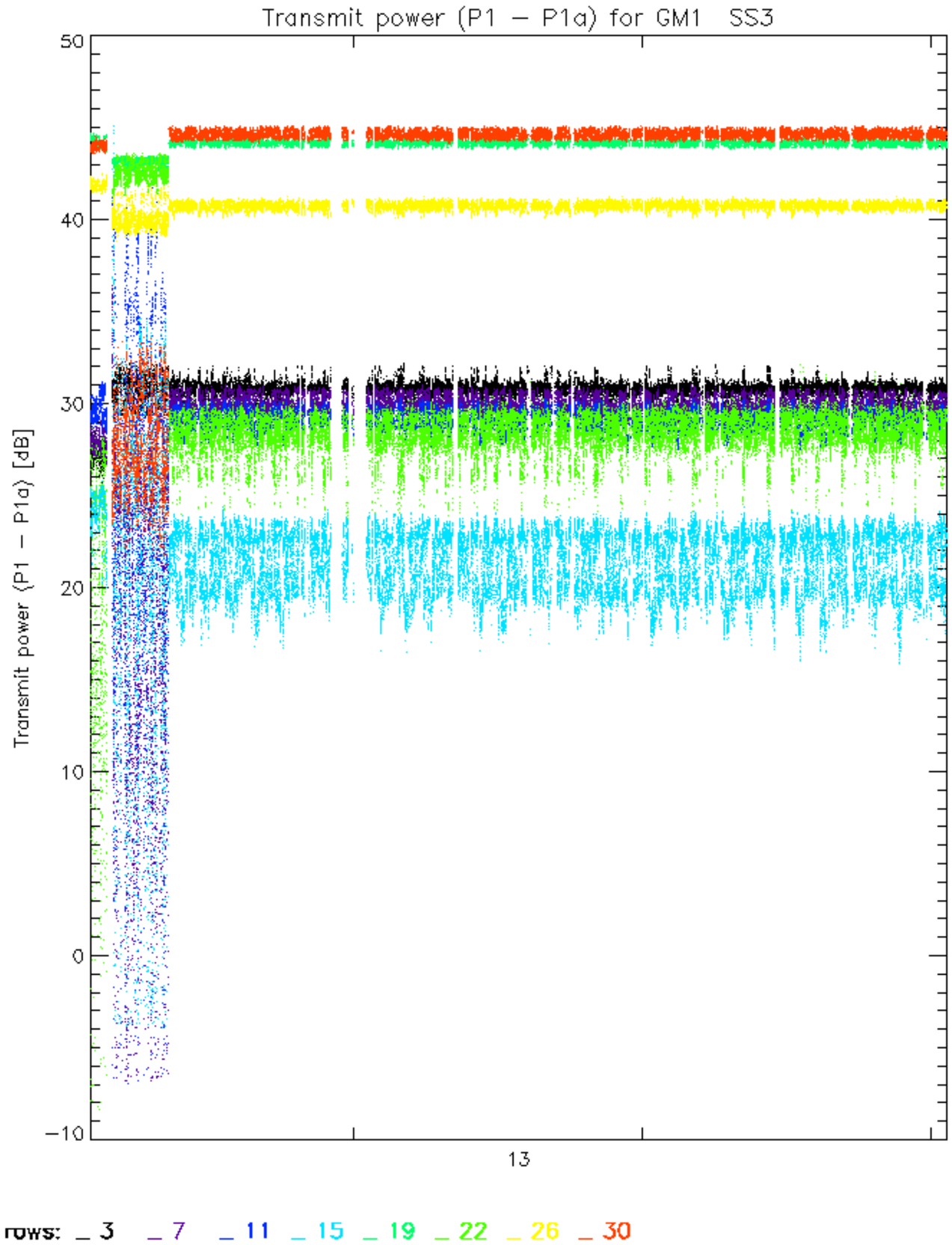
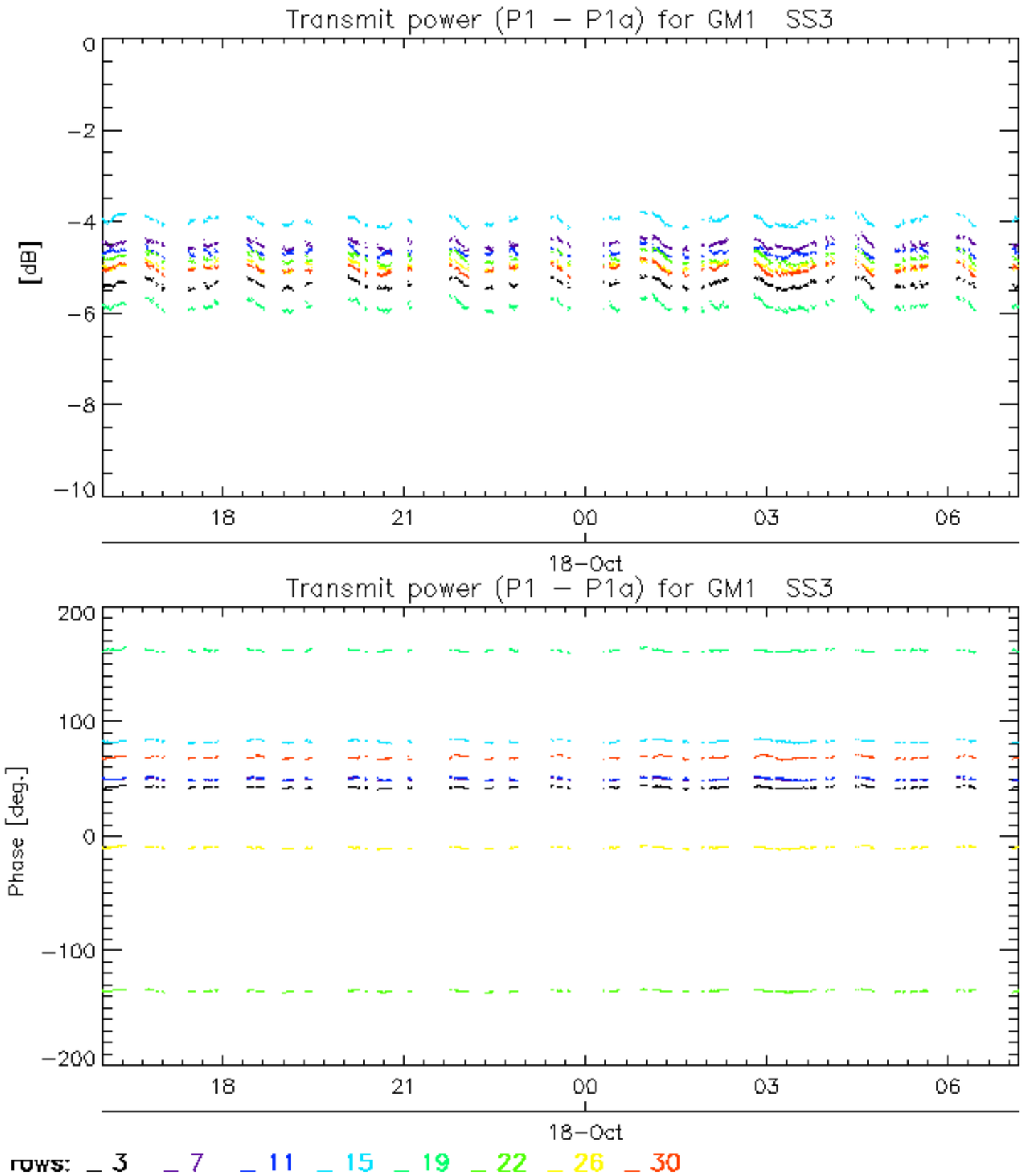
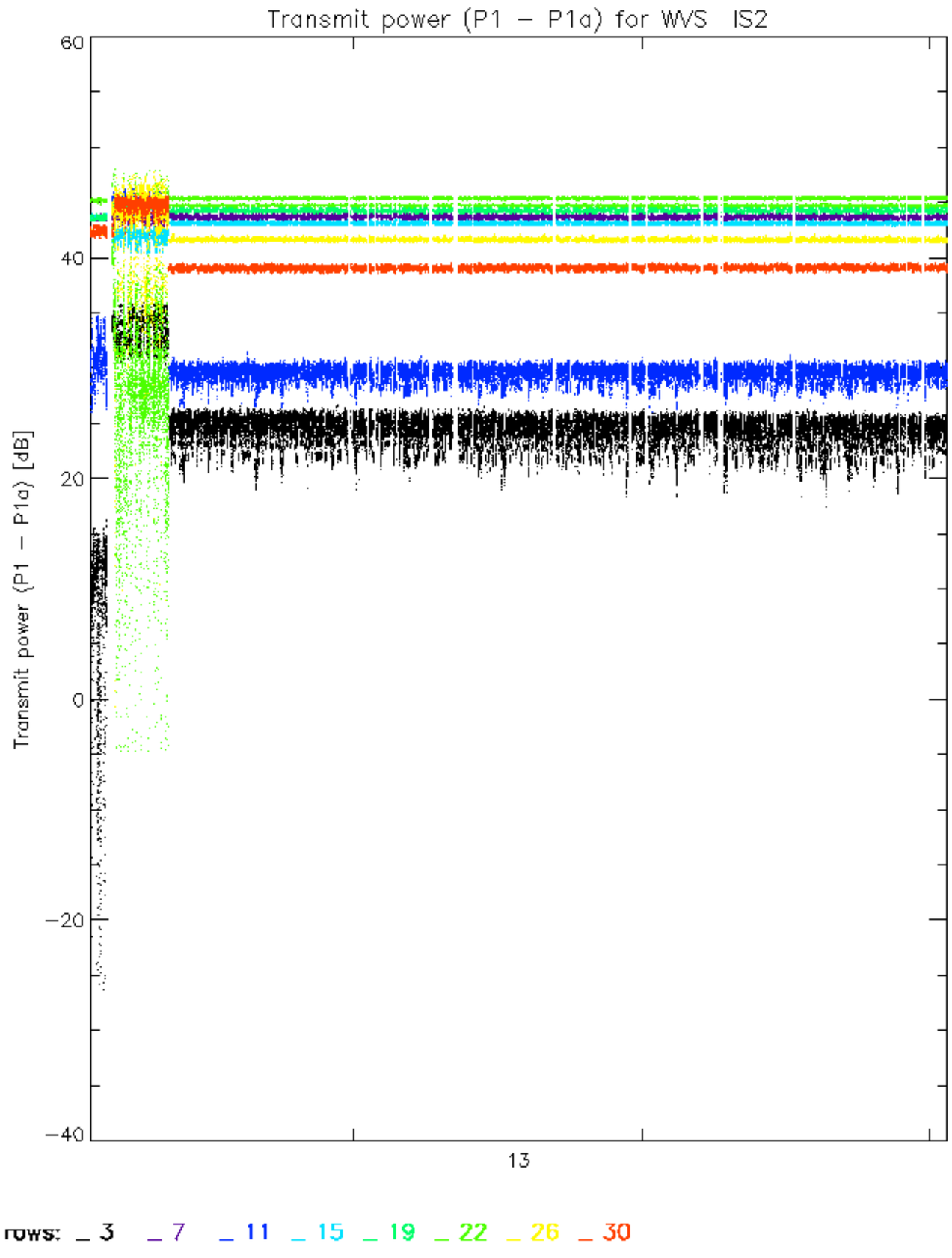
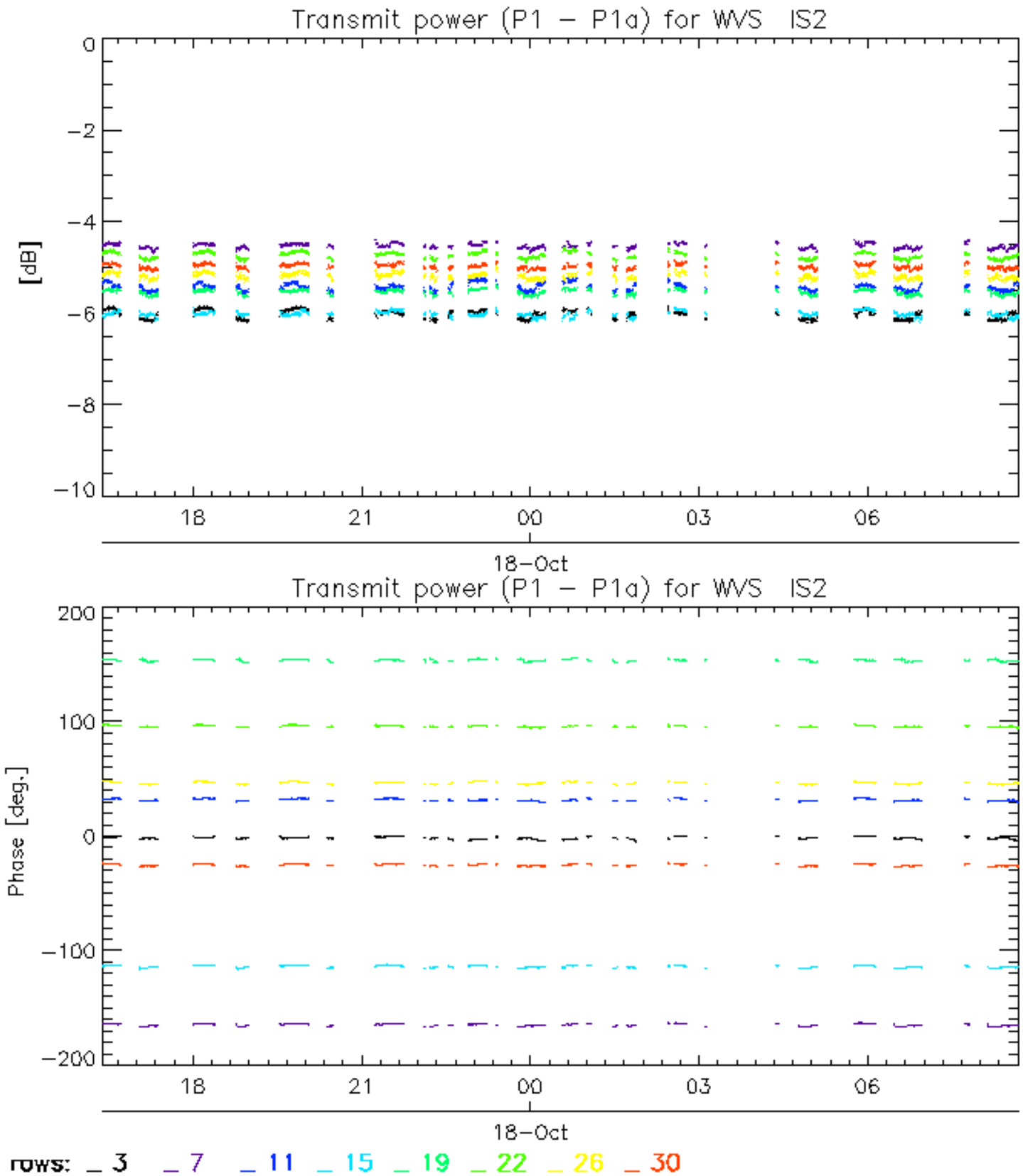

Reference: NULL V TxPhase
Test : 2005-10-16 05:32:16 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
13
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
18−Oct
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
18−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
13
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
18–Oct
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
18–Oct
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.