PRELIMINARY REPORT OF 051216

last update on Fri Dec 16 16:44:03 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 2005-12-15 00:00:00 to 2005-12-16 16:44:03

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	40	0	14	0	15
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	40	0	14	0	15
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	40	0	14	0	15
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	40	0	14	0	15

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	41	55	28	15	49
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	41	55	28	15	49
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	41	55	28	15	49
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	41	55	28	15	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	20051214 043733
H	20051215 040556

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	-3.592090	0.219295	0.131854
7	P1	-2.754051	0.126073	0.487537
11	P1	-4.150939	0.031263	-0.039522
15	P1	-5.119015	1.717677	1.987110
19	P1	-3.037786	0.062418	0.334402
22	P1	-4.438493	0.021467	0.115419
26	P1	-4.397950	0.059825	-0.320643
30	P1	-5.654737	0.033728	0.224727
3	P1	-15.379463	2.337924	0.649782
7	P1	-15.313272	2.630370	2.380020
11	P1	-16.316137	0.471143	0.579719
15	P1	-12.797202	1.008115	1.525621
19	P1	-13.421290	0.345829	0.770812
22	P1	-16.042345	0.628210	0.638101
26	P1	-15.125897	1.111298	1.539662
30	P1	-15.596718	2.458350	2.271284

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.860353	0.107926	0.052491
7	P2	-22.553846	0.104575	0.022967
11	P2	-16.574554	0.122275	0.014345
15	P2	-7.280270	0.103539	-0.040231
19	P2	-9.221339	0.101354	0.030988
22	P2	-17.866499	0.110217	0.076289
26	P2	-16.364389	0.132238	-0.318752
30	P2	-19.788483	0.118522	-0.229816

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.235766	0.007374	-0.013180
7	P3	-8.235766	0.007374	-0.013180
11	P3	-8.235766	0.007374	-0.013180
15	P3	-8.235766	0.007374	-0.013180
19	P3	-8.235766	0.007374	-0.013180
22	P3	-8.235766	0.007374	-0.013180
26	P3	-8.235766	0.007374	-0.013180
30	P3	-8.235766	0.007374	-0.013180

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	-3.697316	0.007955	-0.018048
7	P1	-2.778728	0.011465	0.027577
11	P1	-2.878025	0.014468	-0.003861
15	P1	-3.403117	0.021480	-0.017316
19	P1	-3.385641	0.013533	-0.020558
22	P1	-5.120827	0.019531	-0.010906
26	P1	-5.833511	0.016239	-0.039516
30	P1	-5.275878	0.033264	-0.015339
3	P1	-11.469087	0.042366	-0.025704
7	P1	-9.971296	0.045652	-0.003690
11	P1	-10.053596	0.061066	-0.010476
15	P1	-10.569860	0.081653	0.047052
19	P1	-15.511714	0.073773	-0.045036
22	P1	-20.953930	0.964936	-0.123692

26	P1	-17.200304	0.305176	0.061219
30	P1	-18.308205	0.311989	0.183208

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.634472	0.030475	0.055529
7	P2	-23.056858	0.060315	-0.026011
11	P2	-11.647002	0.021640	0.110204
15	P2	-4.984461	0.021605	-0.040853
19	P2	-6.962966	0.022147	-0.037020
22	P2	-8.187528	0.023396	-0.061609
26	P2	-24.049170	0.031591	-0.035132
30	P2	-22.120514	0.019723	-0.047044

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.075684	0.002437	-0.011267
7	P3	-8.075753	0.002447	-0.011090
11	P3	-8.075767	0.002431	-0.011077
15	P3	-8.075747	0.002443	-0.011355
19	P3	-8.075820	0.002448	-0.010982
22	P3	-8.075788	0.002445	-0.011103
26	P3	-8.075676	0.002418	-0.011706
30	P3	-8.075468	0.002440	-0.010955

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	0.000464081
	stdev	2.16763e-07
MEAN Q	mean	0.000482579
	stdev	2.36961e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.128992
	stdev	0.00107043
STDEV Q	mean	0.129276
	stdev	0.00108229

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005121[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_IMM_1PNPDE20051214_004627_000001012043_00217_19810_3913.N1	1	0
ASA_IMM_1PNPDE20051216_004204_000002002043_00245_19838_4039.N1	1	0
ASA_WSM_1PNPDE20051214_110145_000000672043_00223_19816_4200.N1	0	3
ASA_WSM_1PNPDE20051214_141859_000002072043_00225_19818_4318.N1	0	72
ASA_WSM_1PNPDE20051214_183928_000000672043_00228_19821_4365.N1	0	13

ASA_WSM_1PNPDE20051215_134913_000000672043_00239_19832_4387.N1	0	61
ASA_WSM_1PNPDE20051215_180902_000001032043_00242_19835_4404.N1	0	34
ASA_WSM_1PNPDE20051215_230839_000001092043_00245_19838_4458.N1	0	13

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

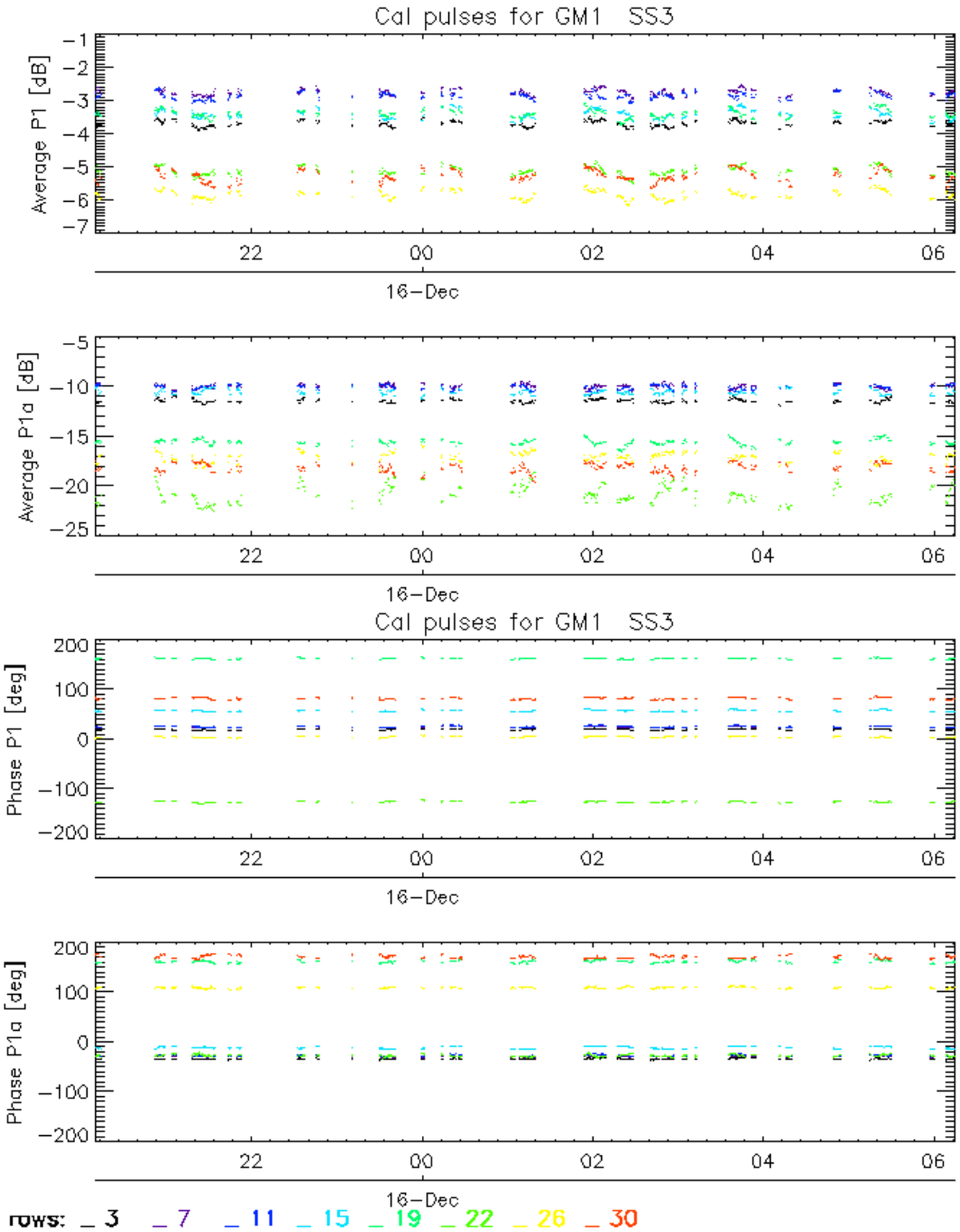
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

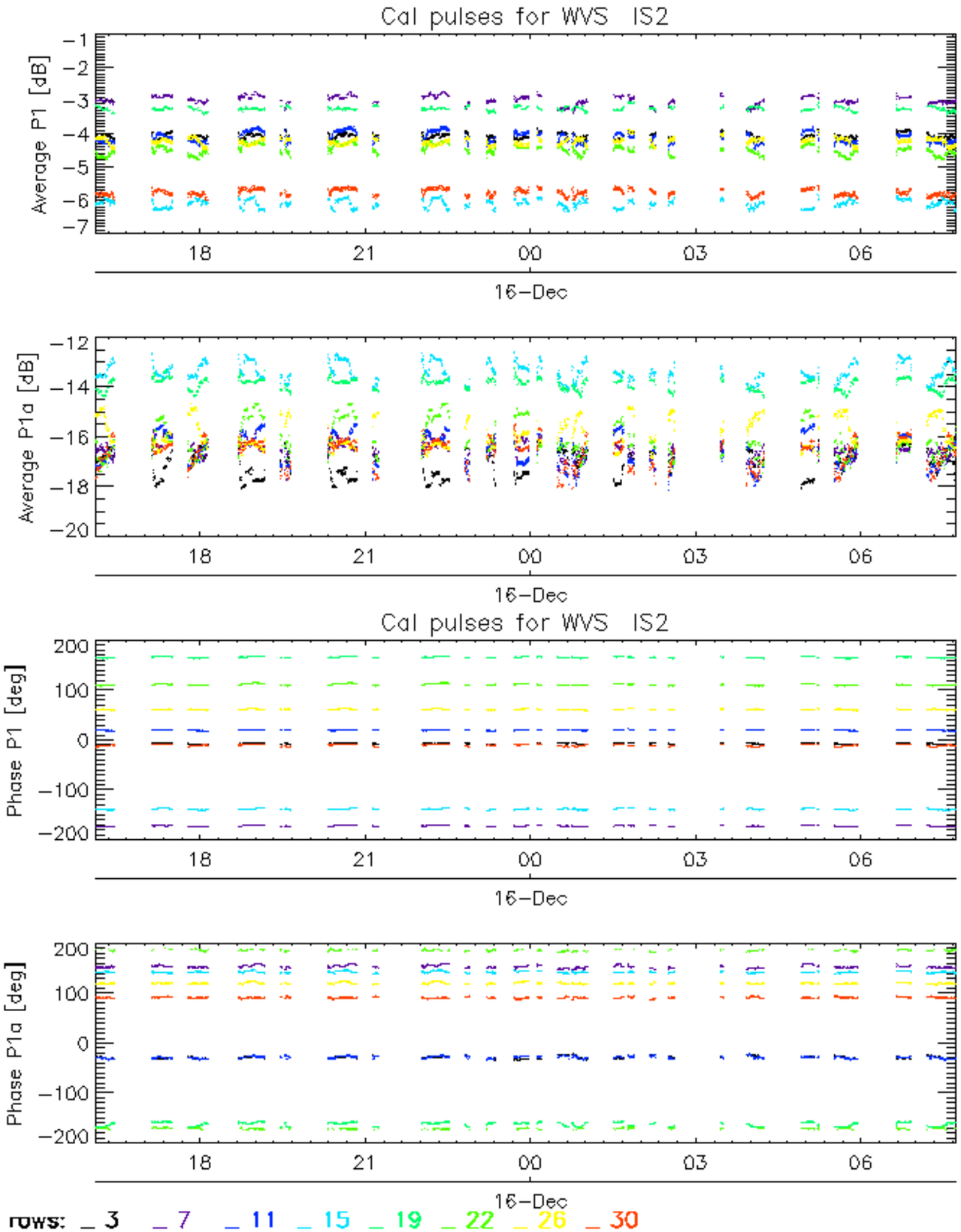
7.5 - Absolute Doppler for GM1

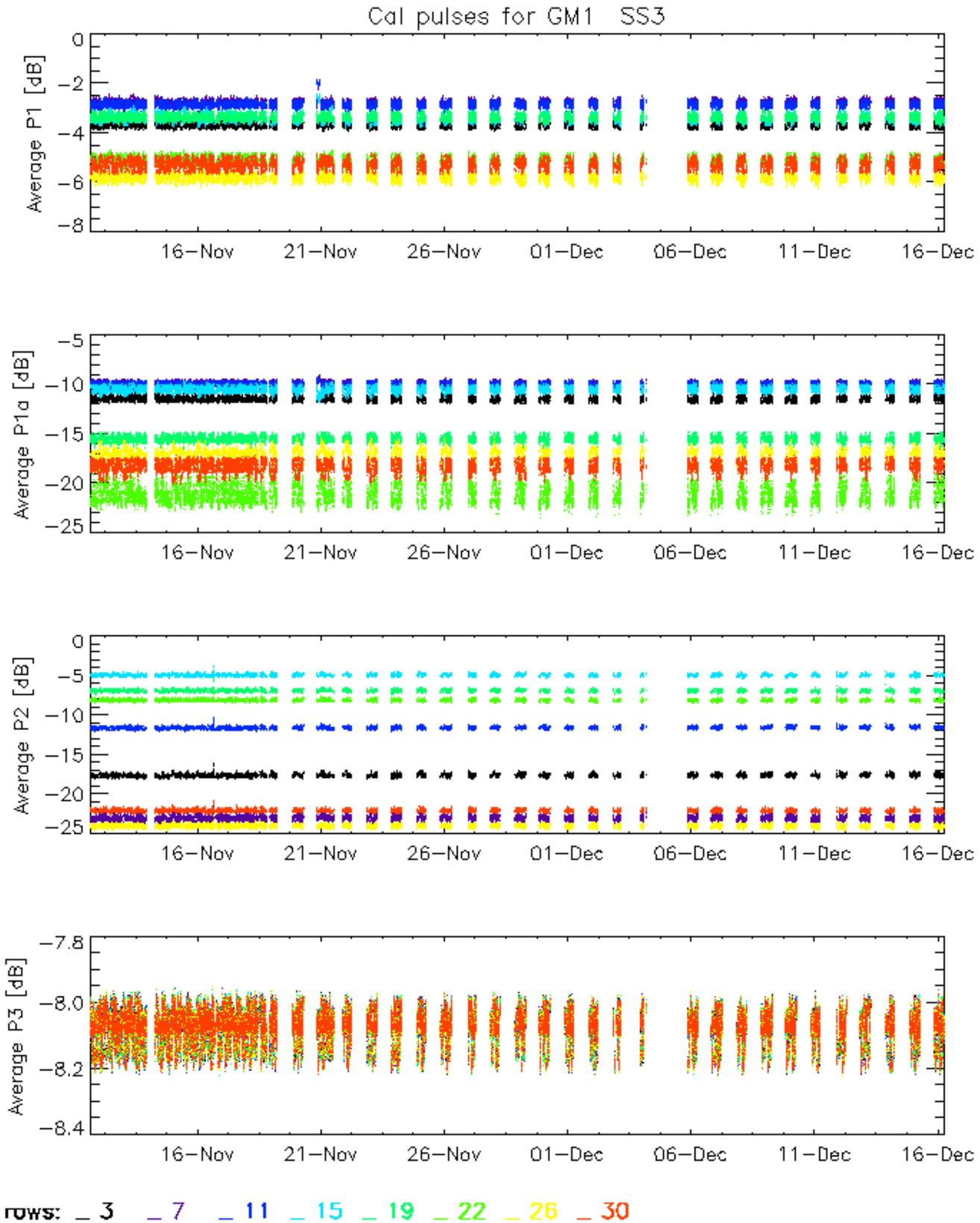
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

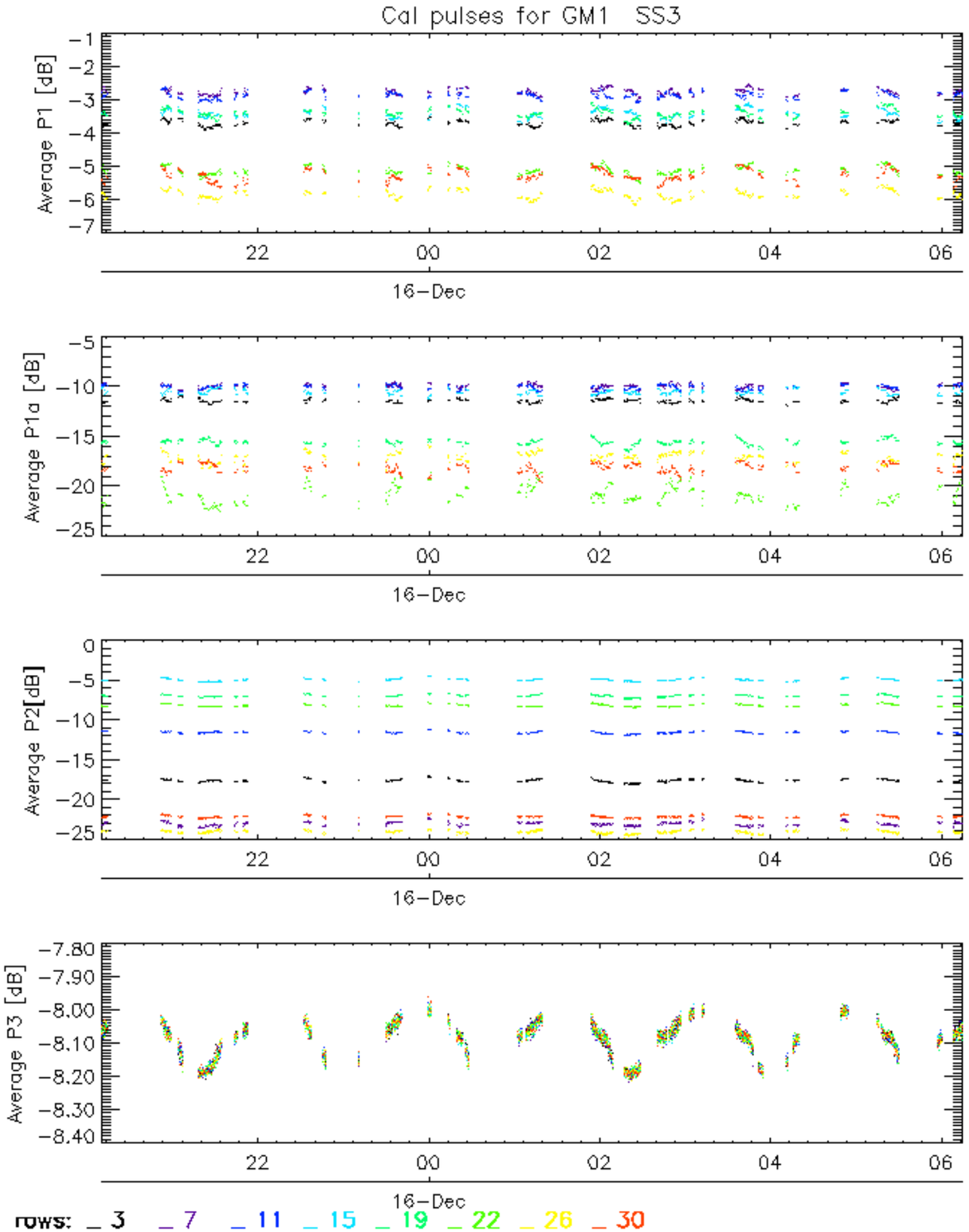
7.6 - Doppler evolution versus ANX for GM1

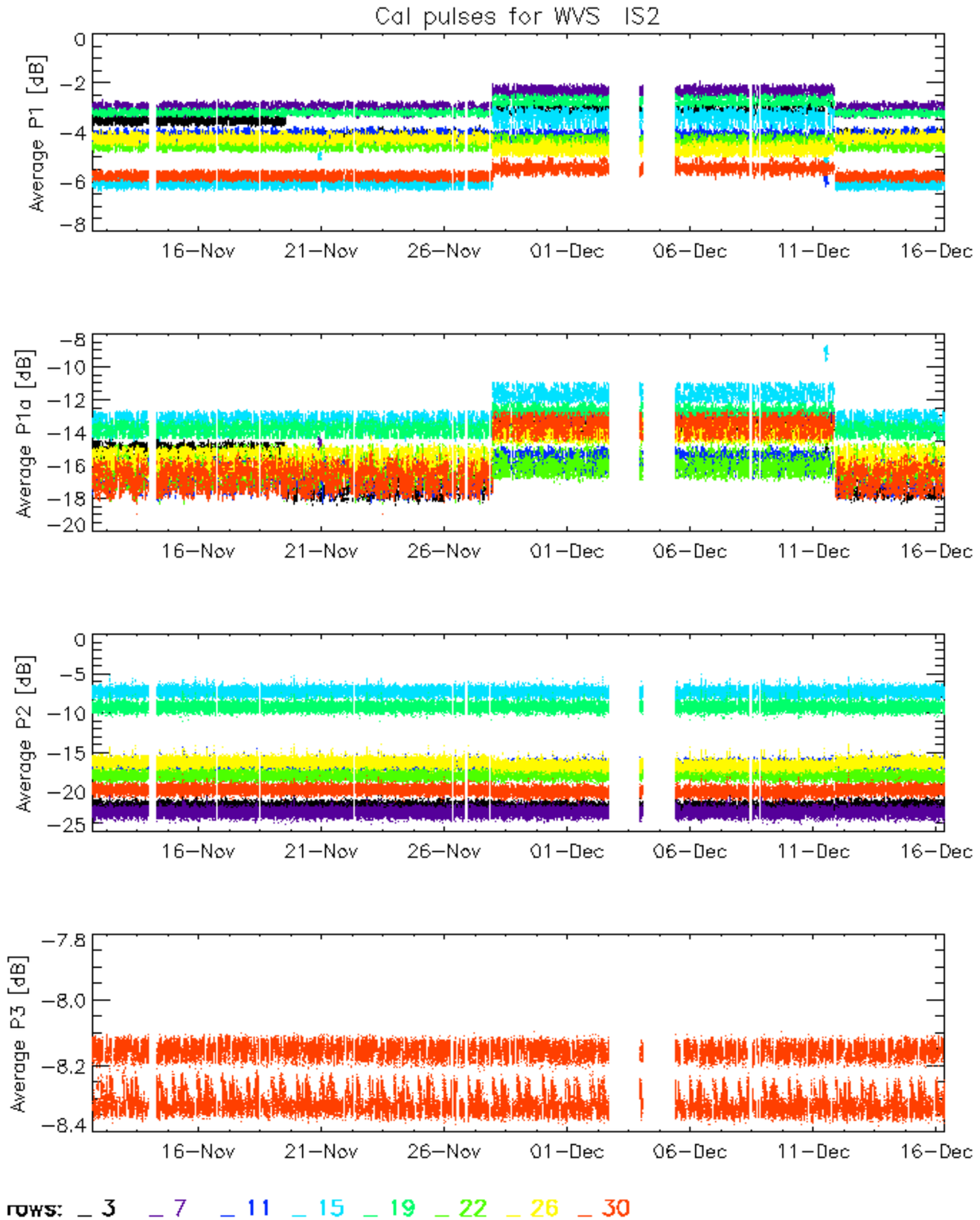
Evolution Doppler error versus ANX
☒

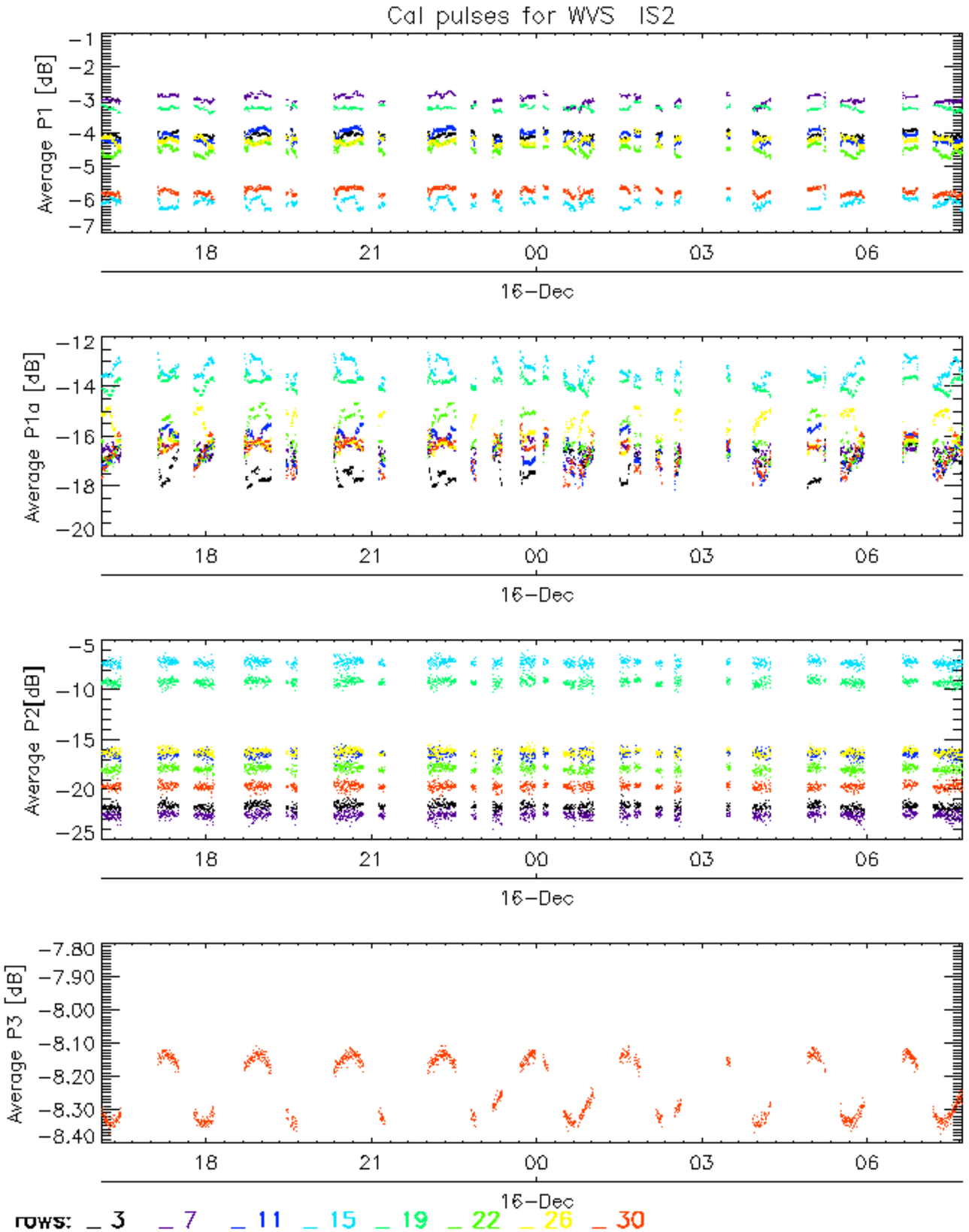

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
22
00
02
04
06
16−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
22
00
02
04
06
16−Dec
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
22
00
02
04
06
16−Dec
Phase P1a [deg]
200
100
0
−100
−200
22
00
02
04
06
16−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 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−Dec
Average P1a [dB]
−12
−14
−16
−18
−20
18
21
00
03
06
16−Dec
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
16−Dec
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
16−Dec
rows: 3 7 11 15 19 22 26 30


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

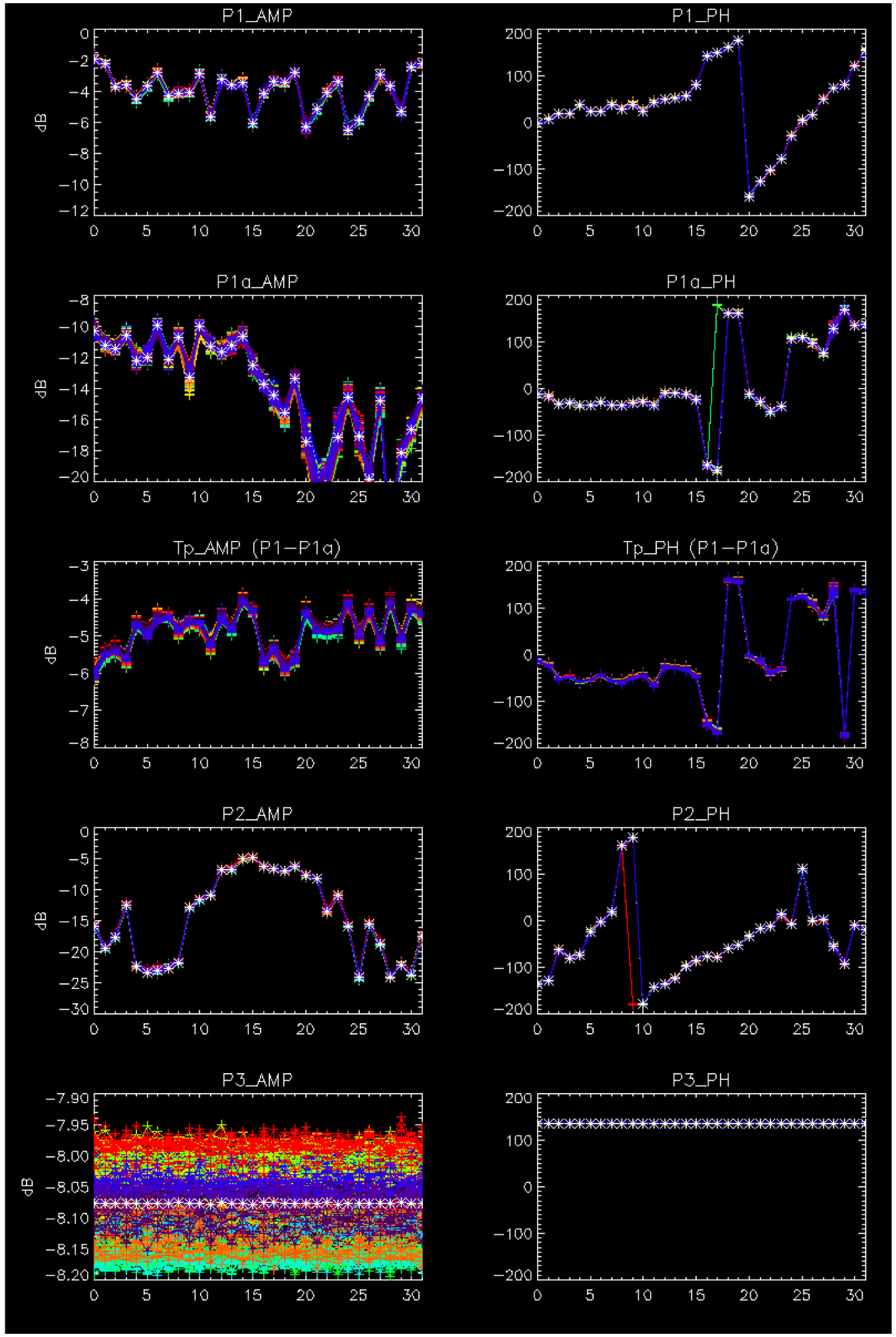

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
22
00
02
04
06
16−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
22
00
02
04
06
16−Dec
Average P2[dB]
0
−5
−10
−15
−20
−25
22
00
02
04
06
16−Dec
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
22
00
02
04
06
16−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

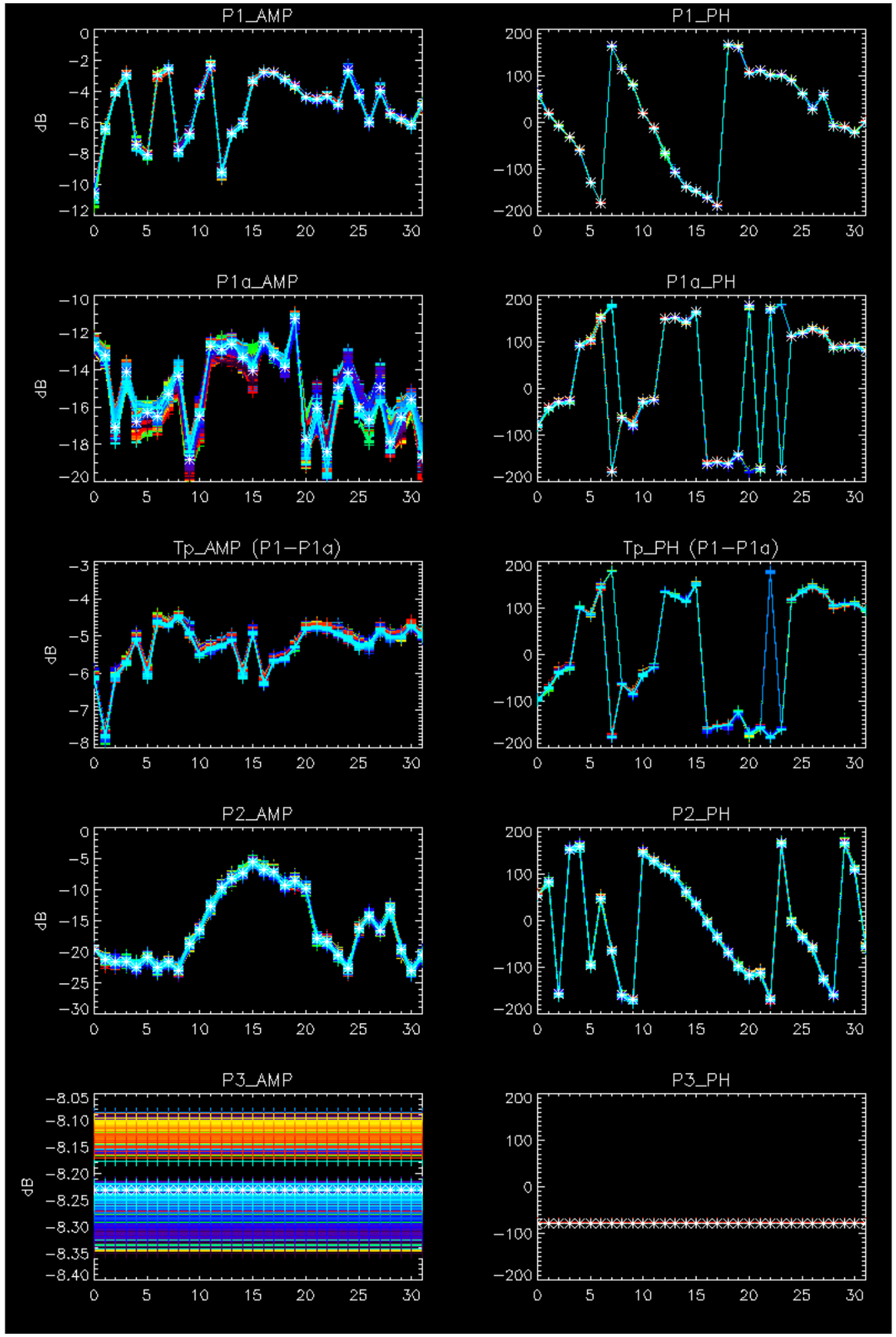

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
11−Dec
16−Dec
Average P1a [dB]
−8
−10
−12
−14
−16
−18
−20
Average P2 [dB]
−5
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

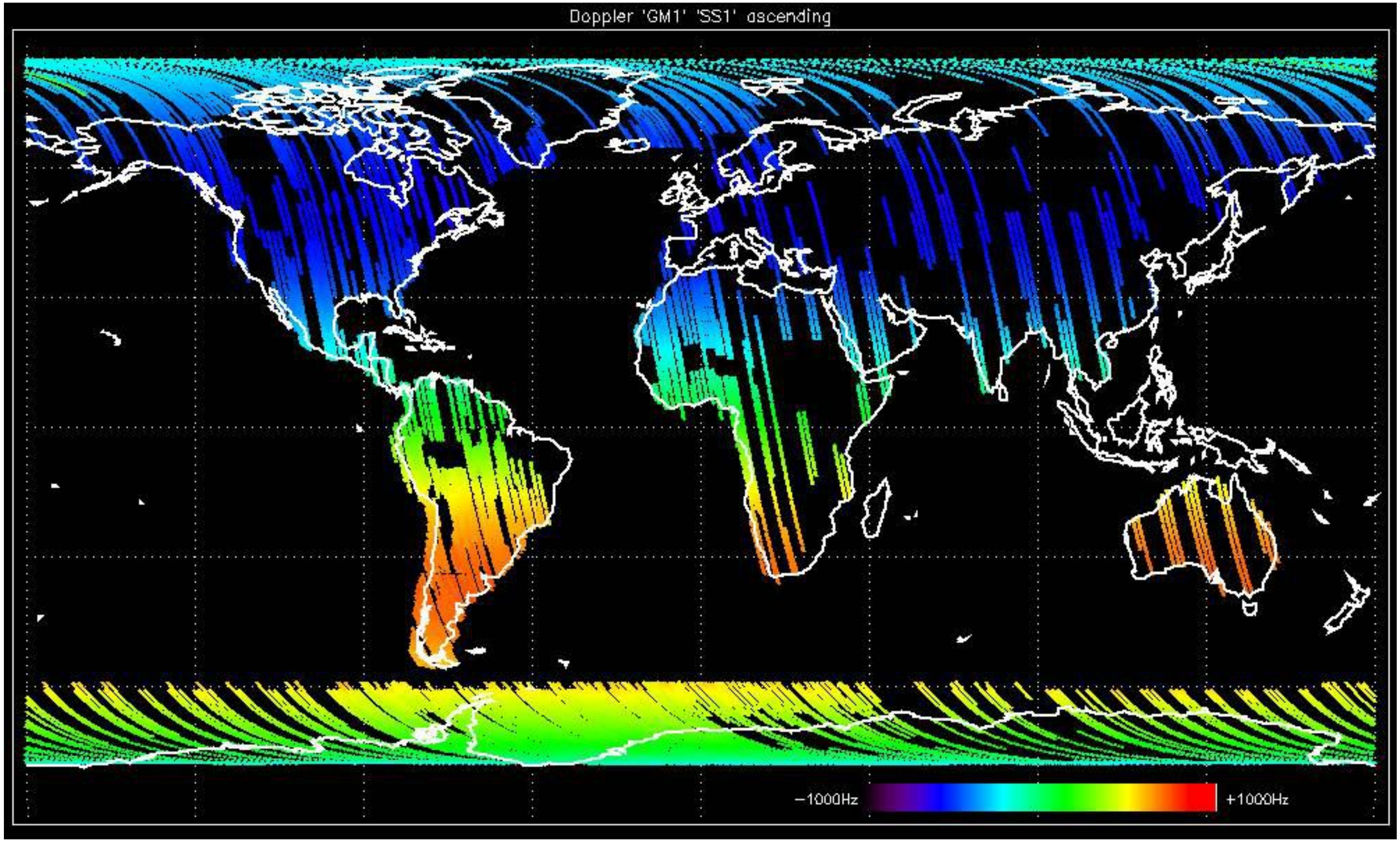
No anomalies observed.

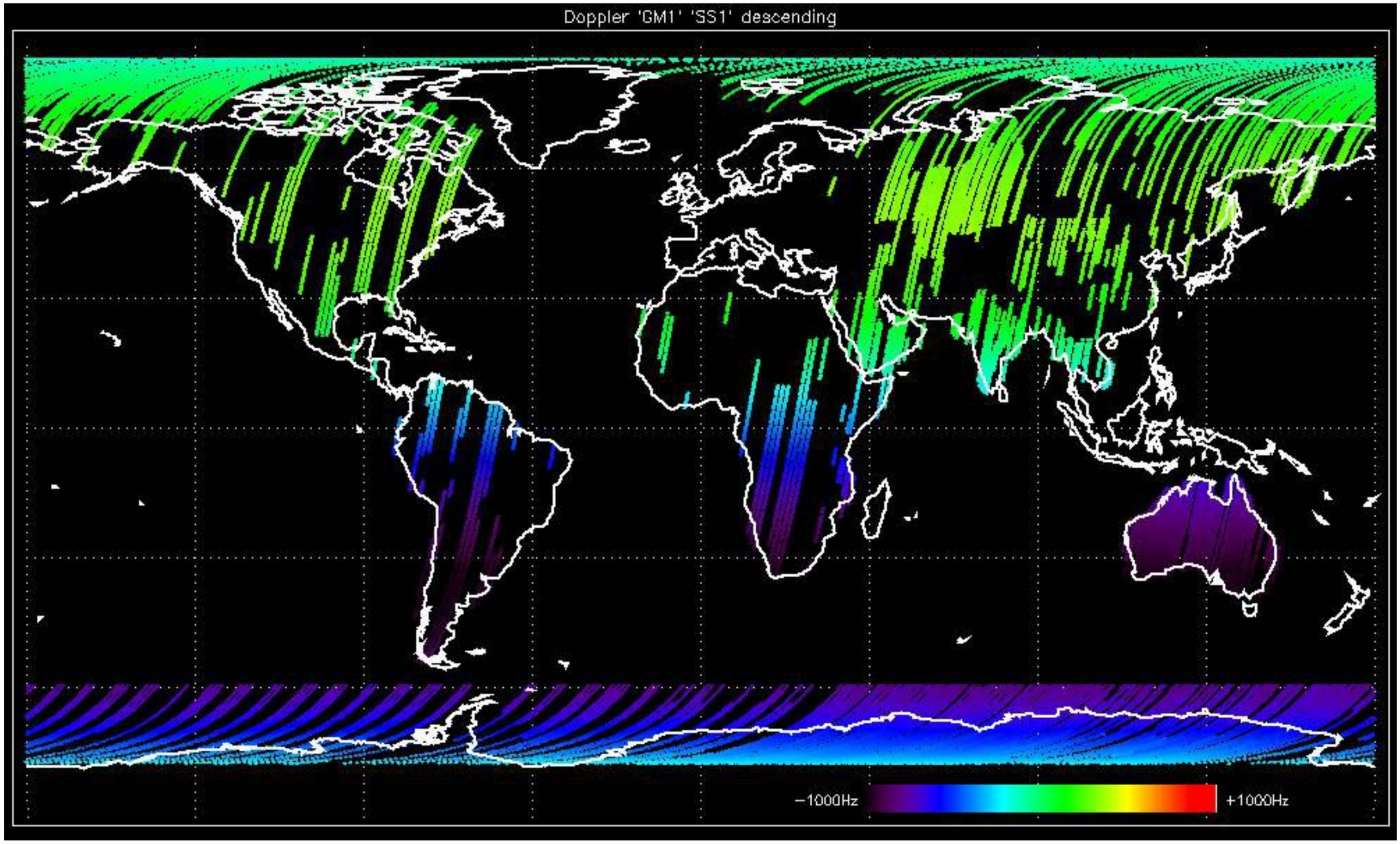

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

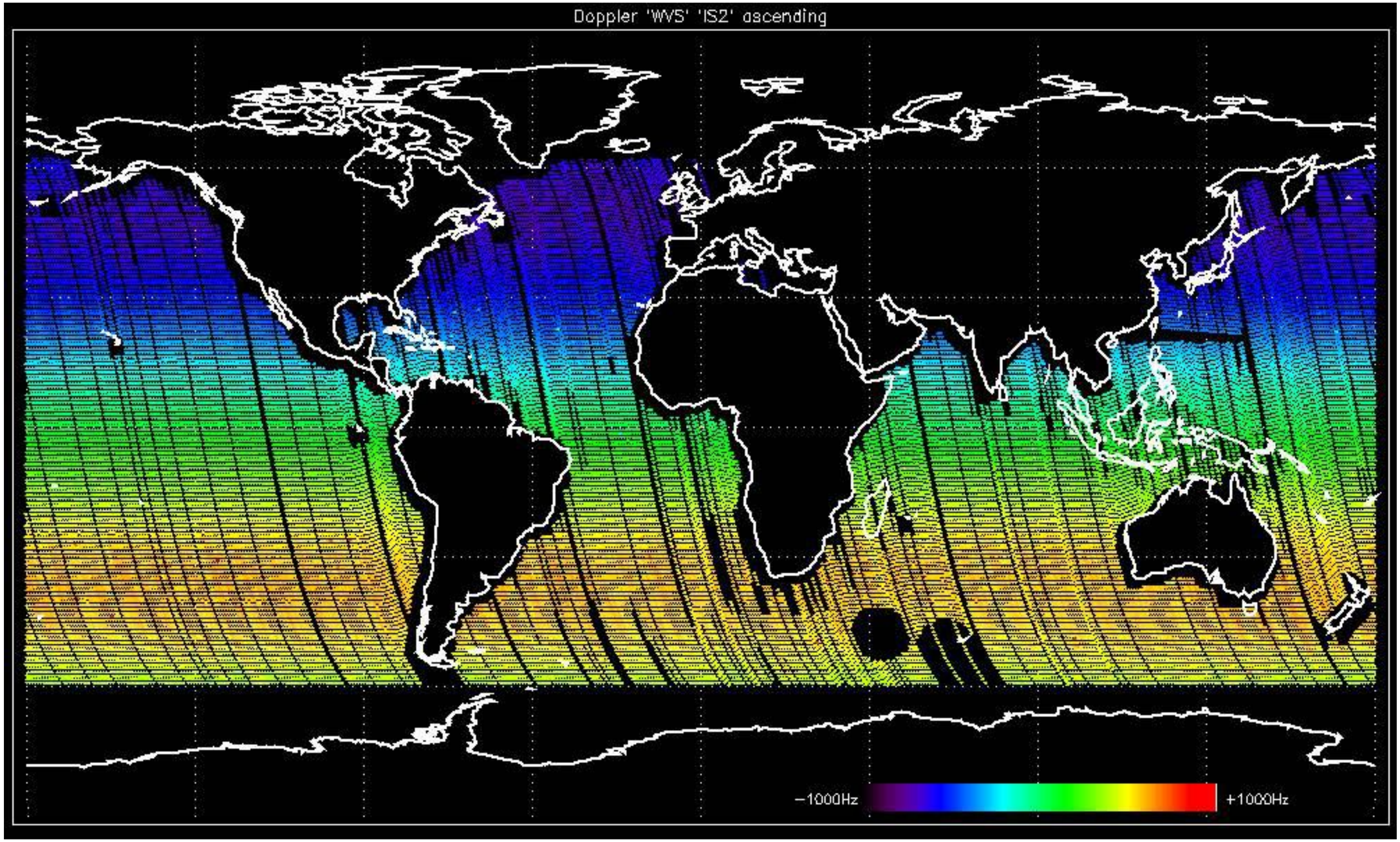

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

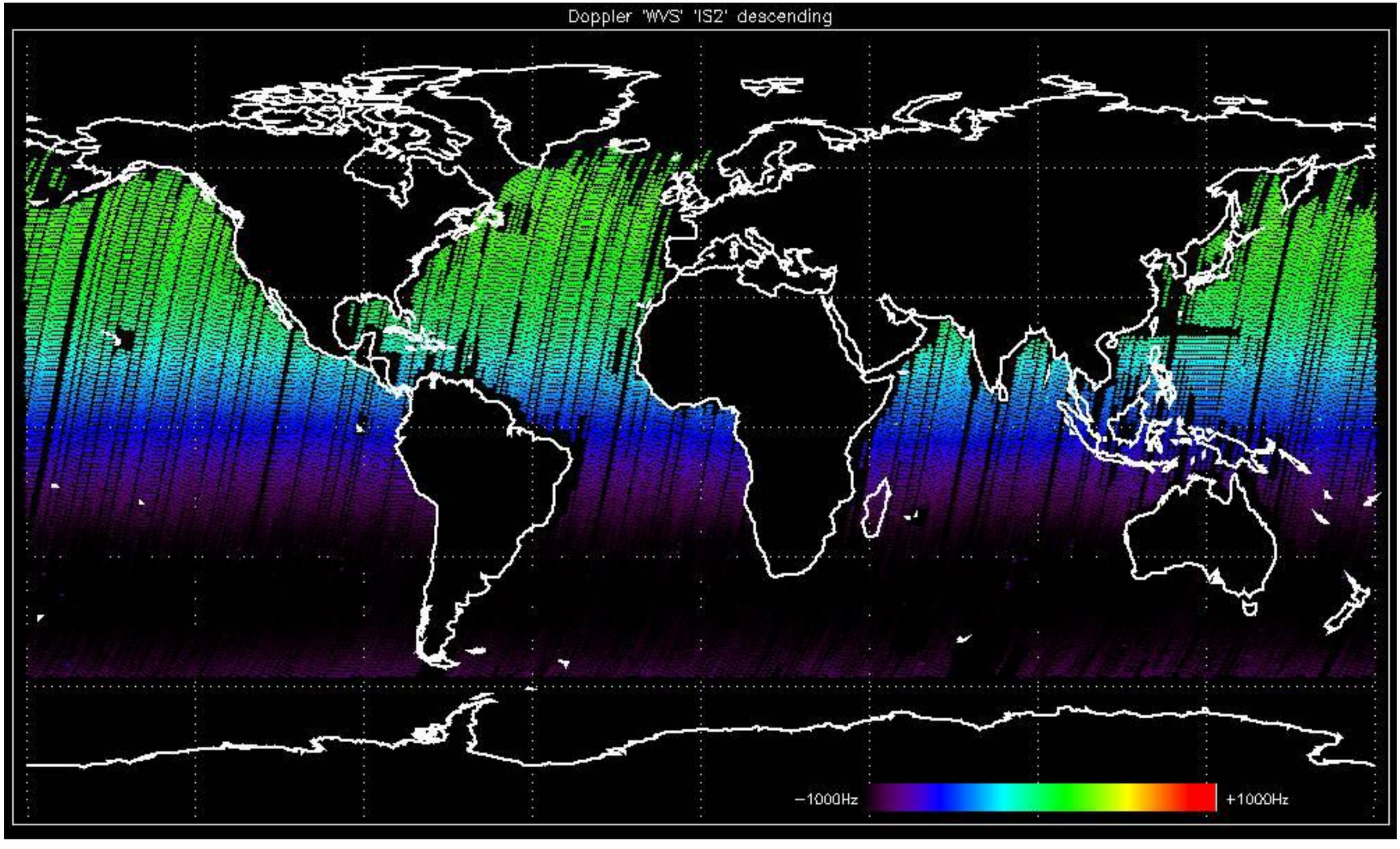
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

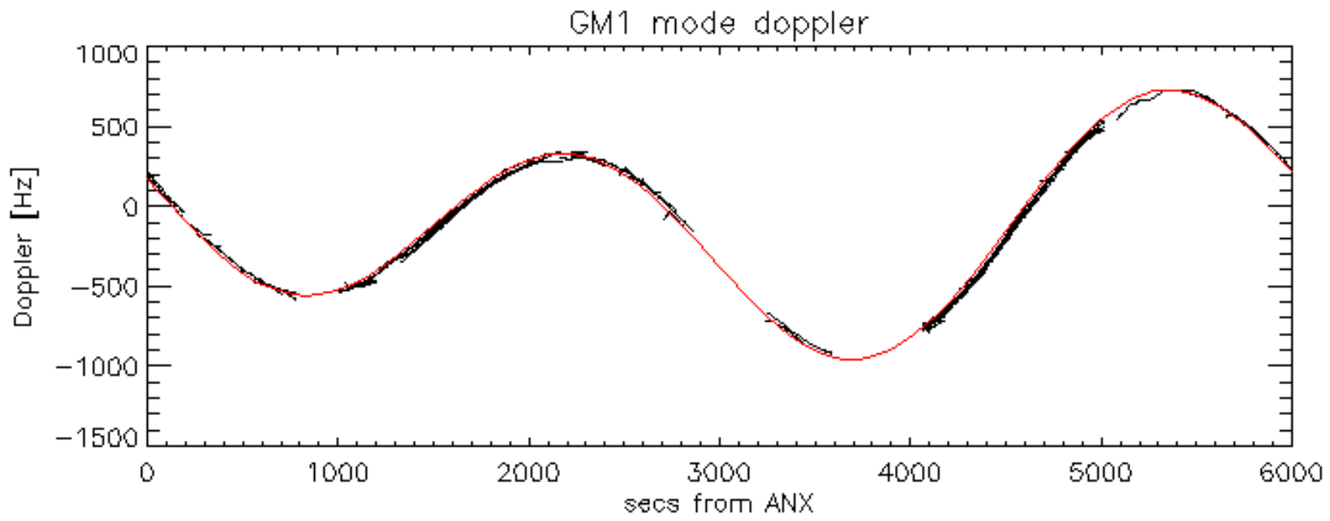
Preliminary report.The data is not yet controled

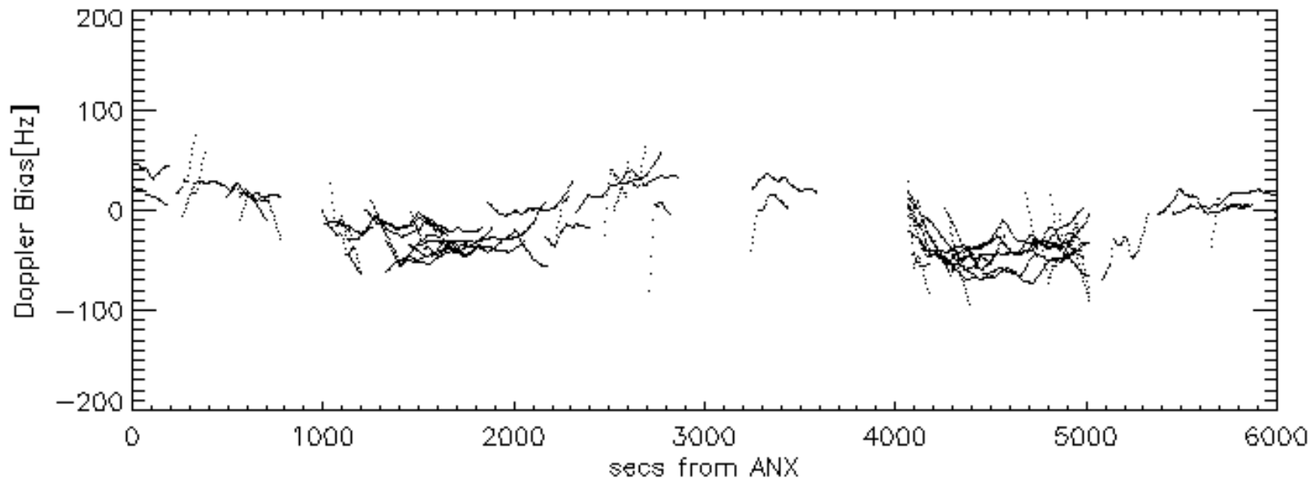

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

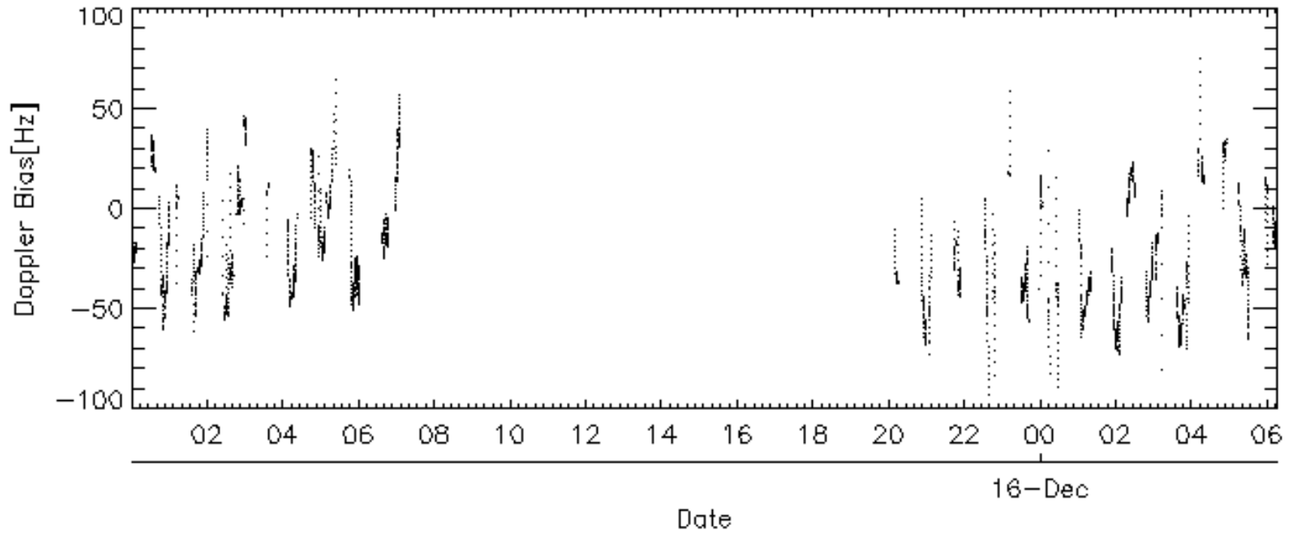

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

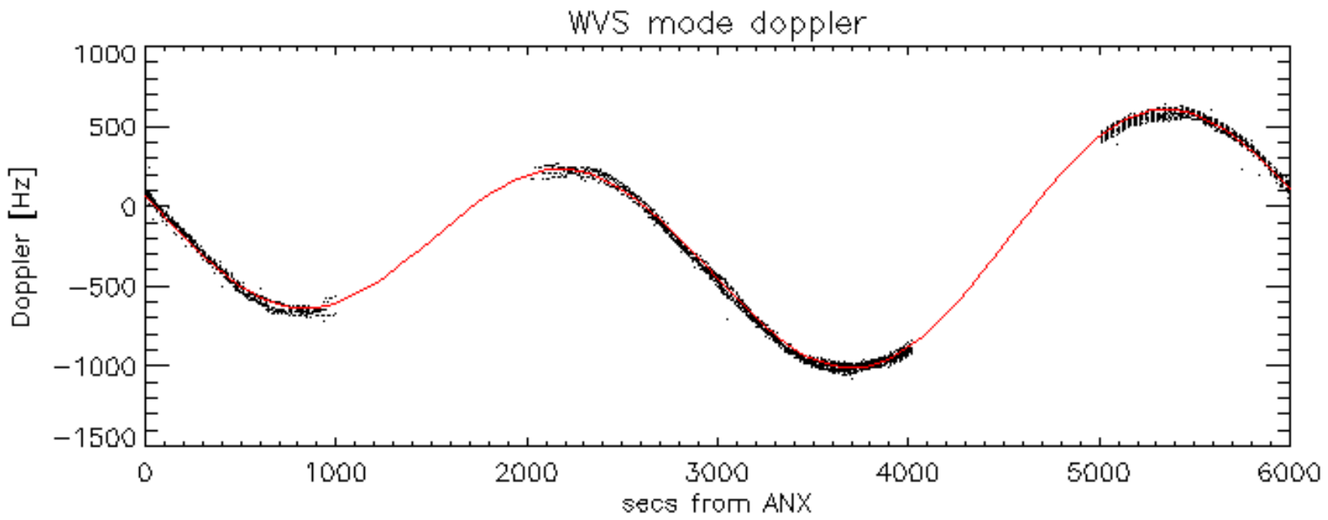

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

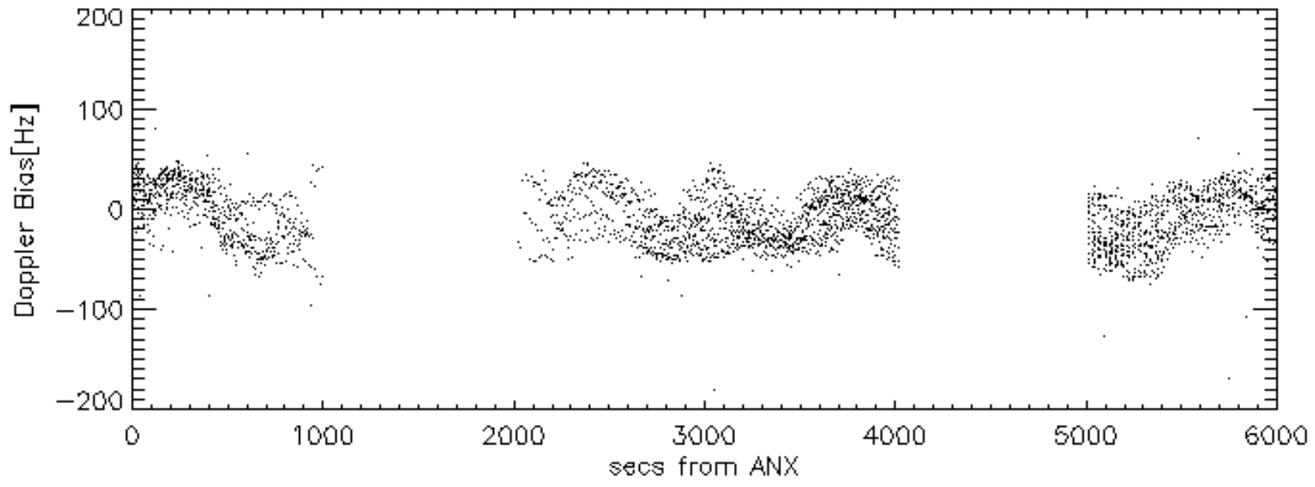

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

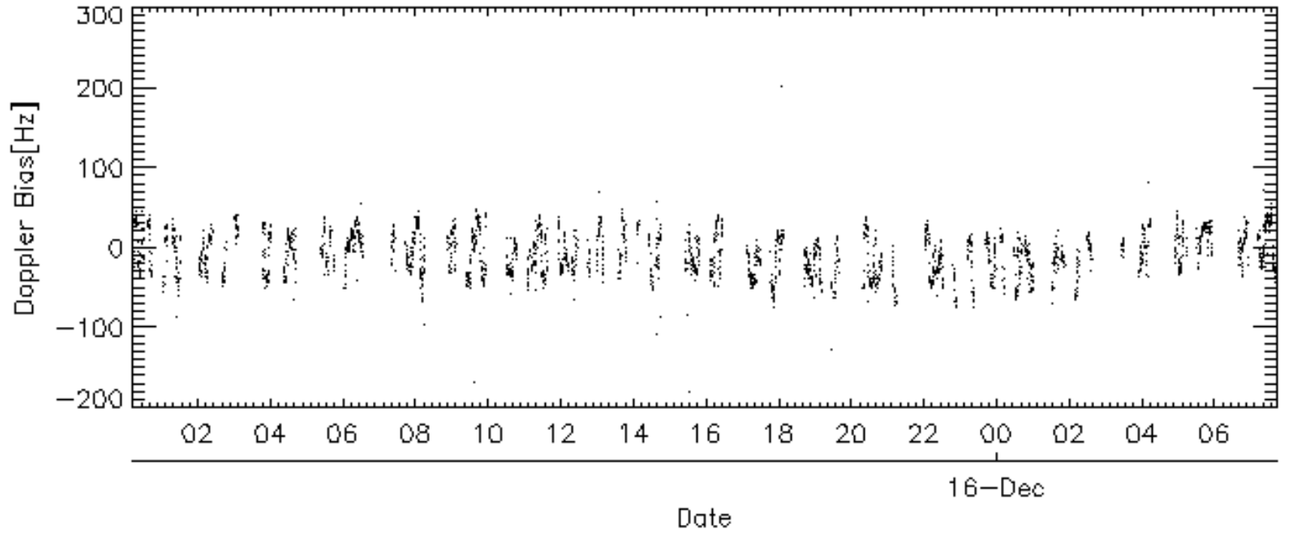

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

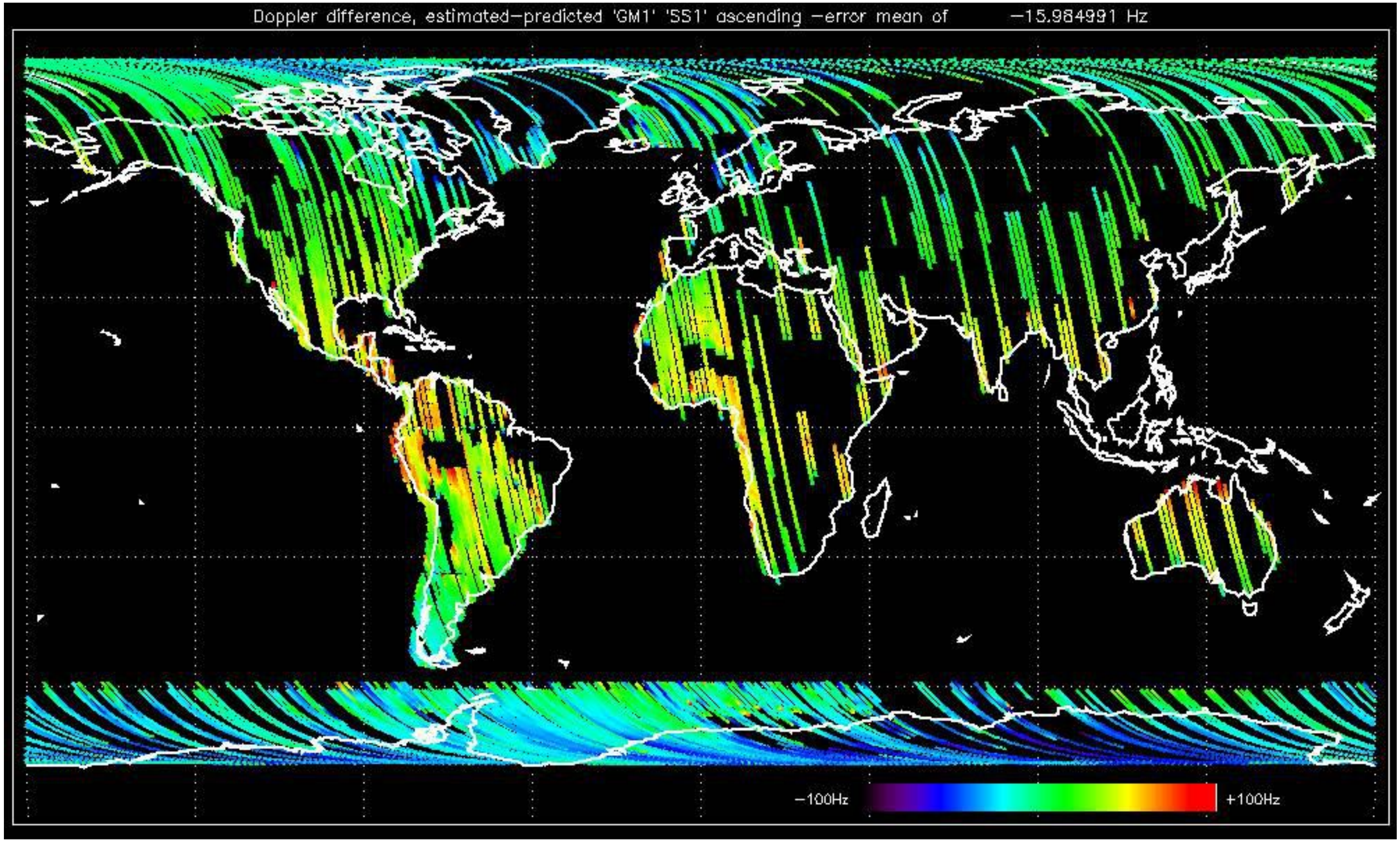

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

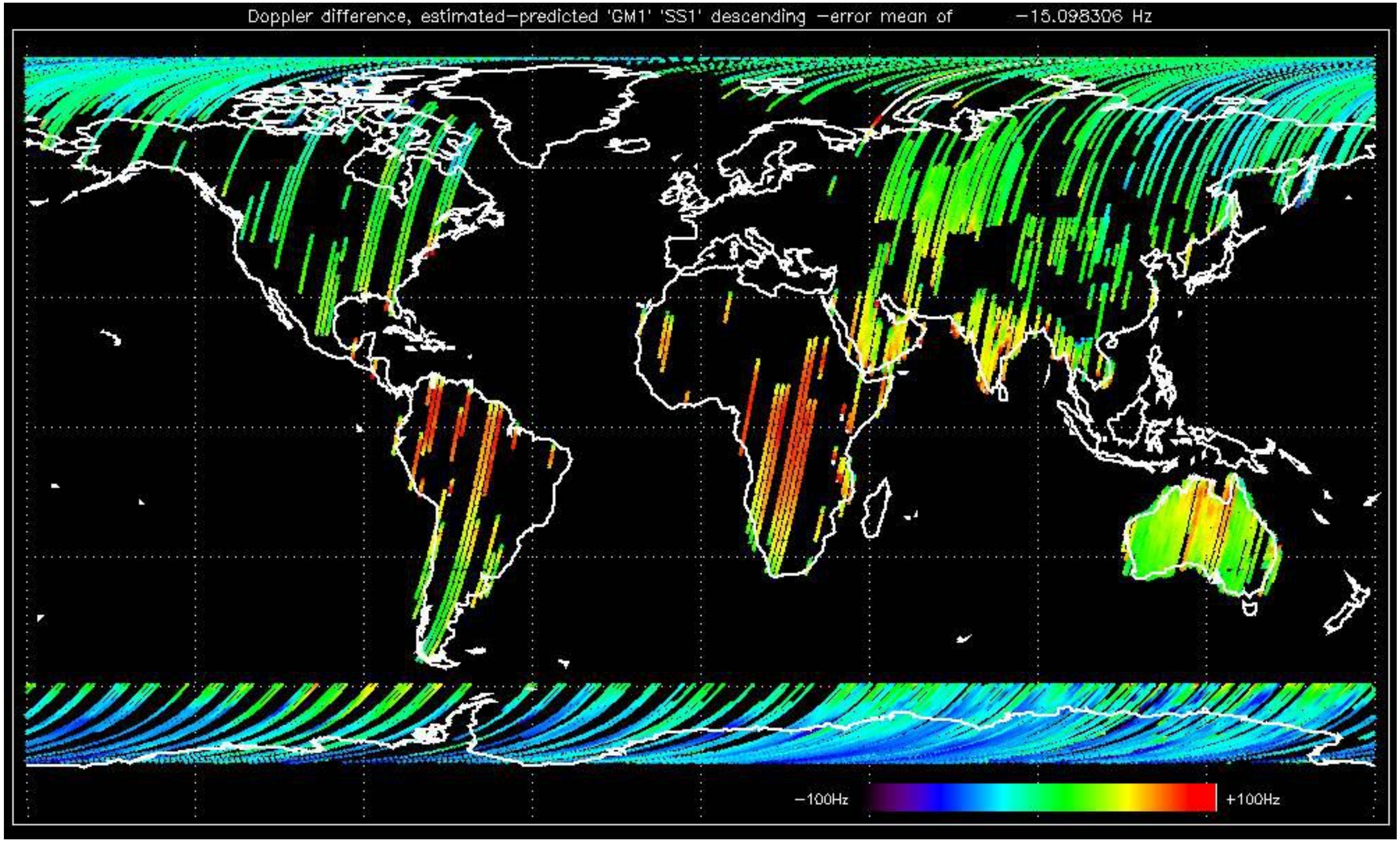

Doppler Bias[Hz]
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
16−Dec
Date

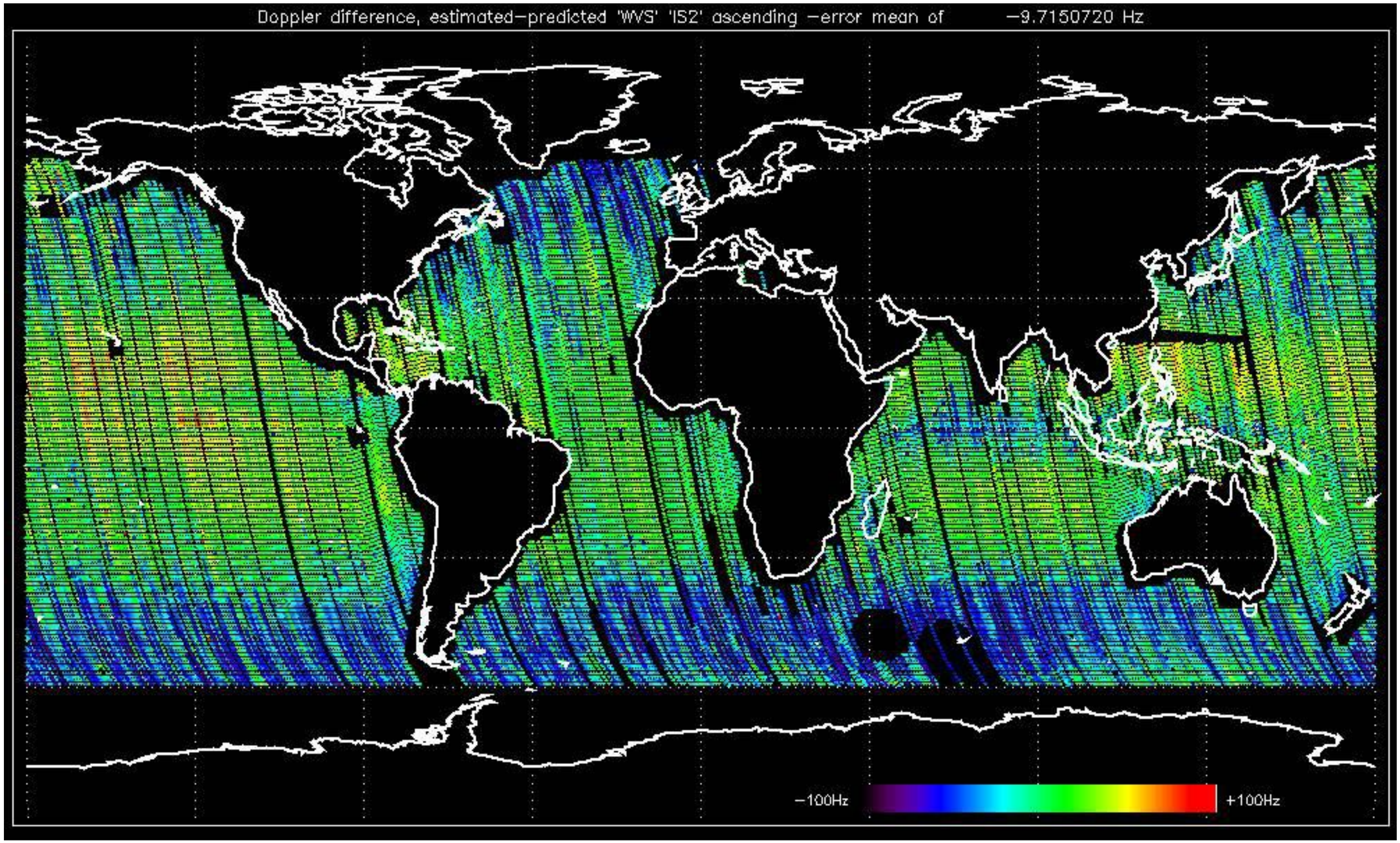

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

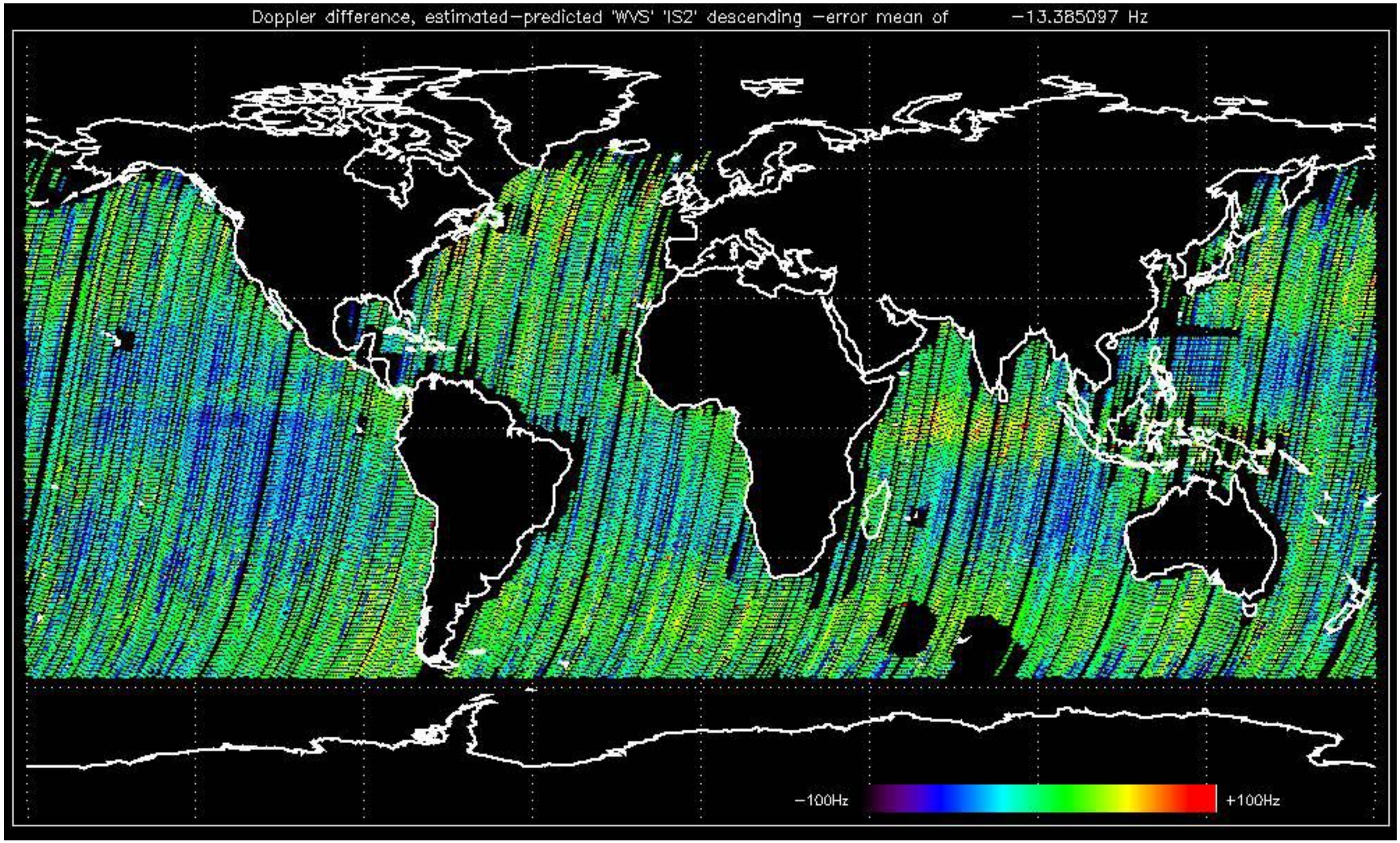

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −15.984991 Hz
−100Hz
+100Hz

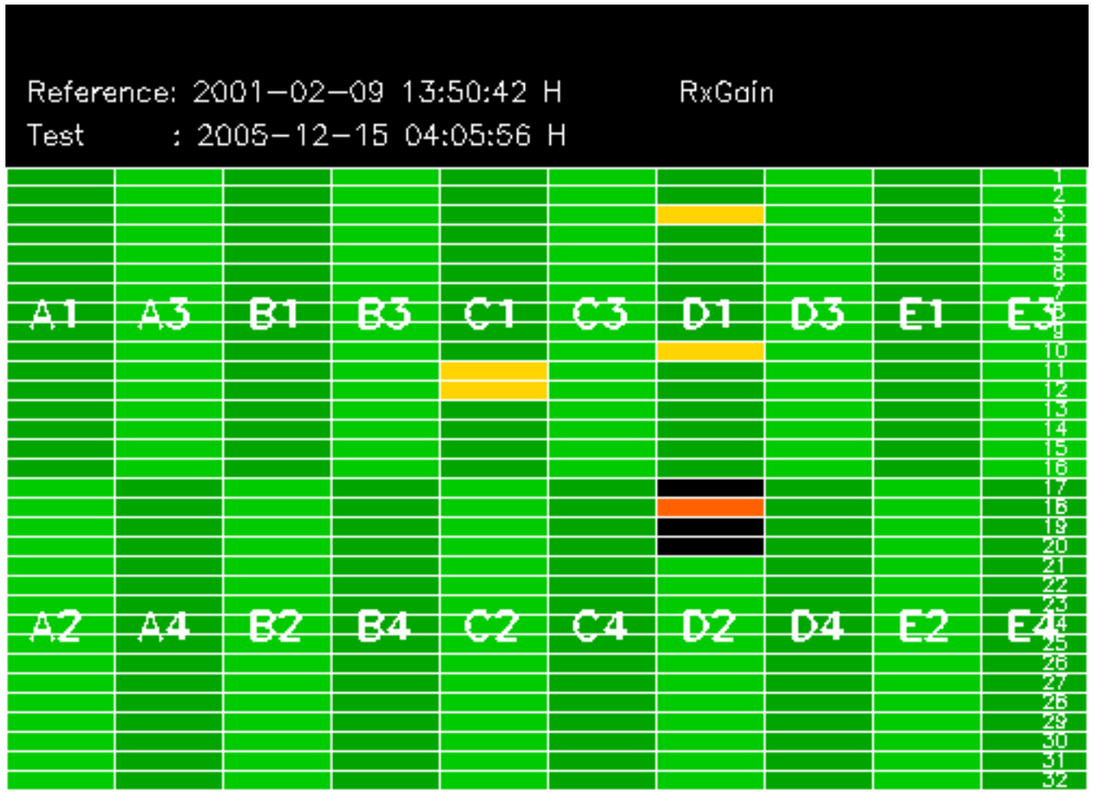

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −15.098306 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −9.7150720 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −13.385097 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2005-12-15 04:05:56 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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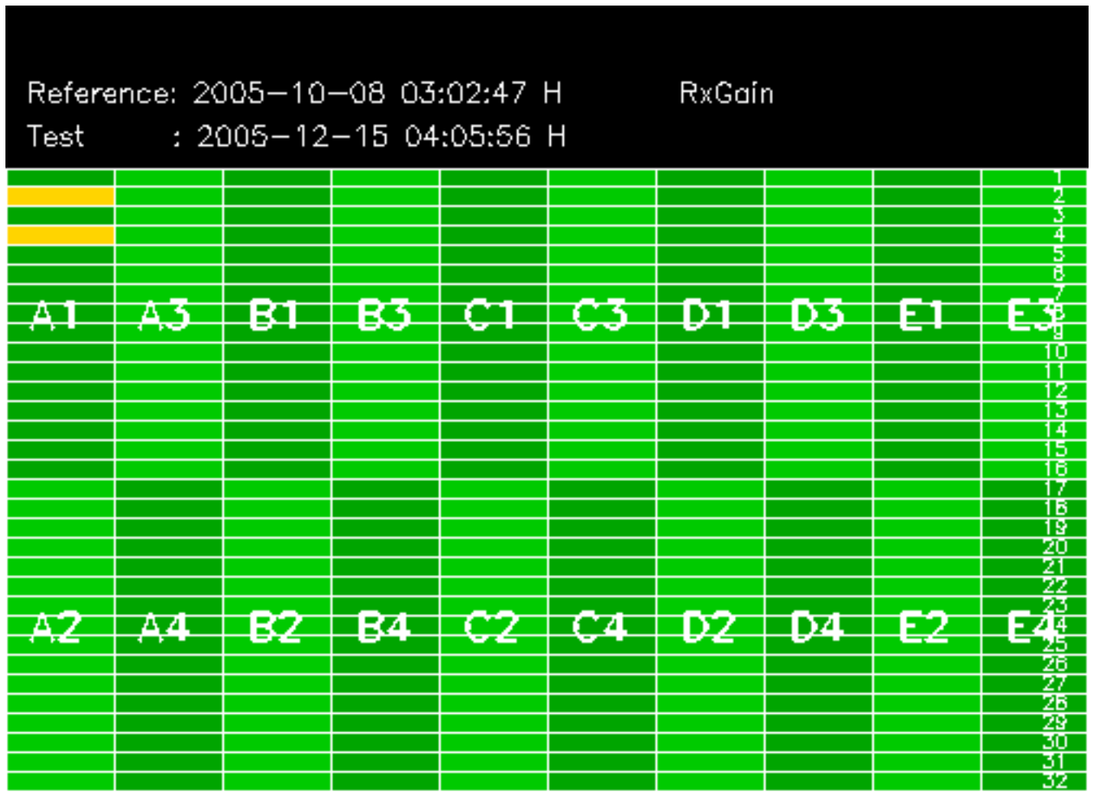
Reference: 2005-10-08 03:02:47 H
RxGain
Test : 2005-12-15 04:05:56 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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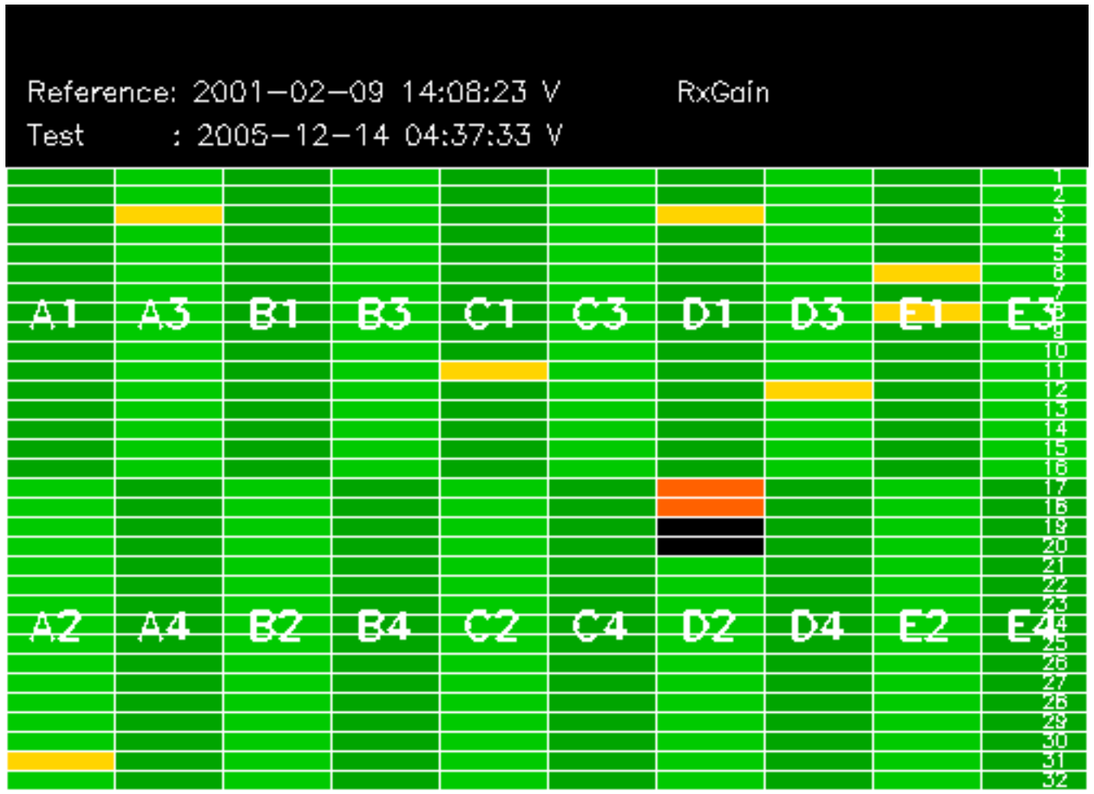
Reference: 2001-02-09 14:08:23 V
Test : 2005-12-14 04:37:33 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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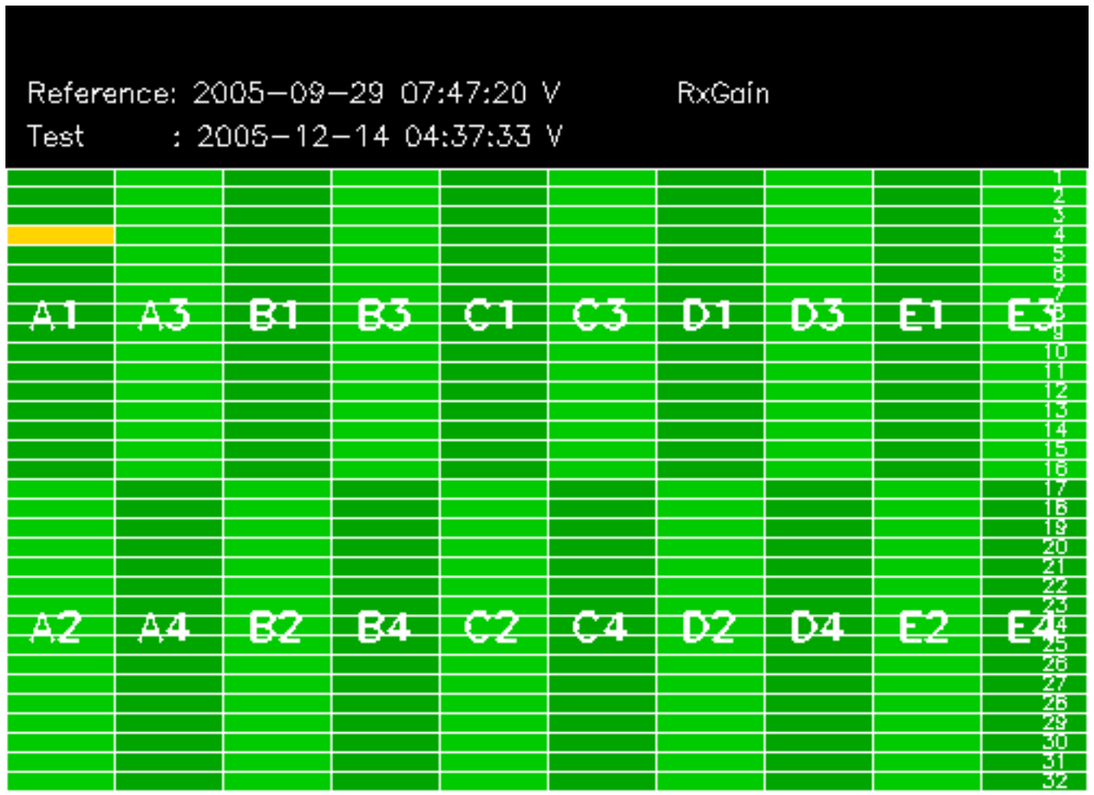
Reference: 2005-09-29 07:47:20 V
Test : 2005-12-14 04:37:33 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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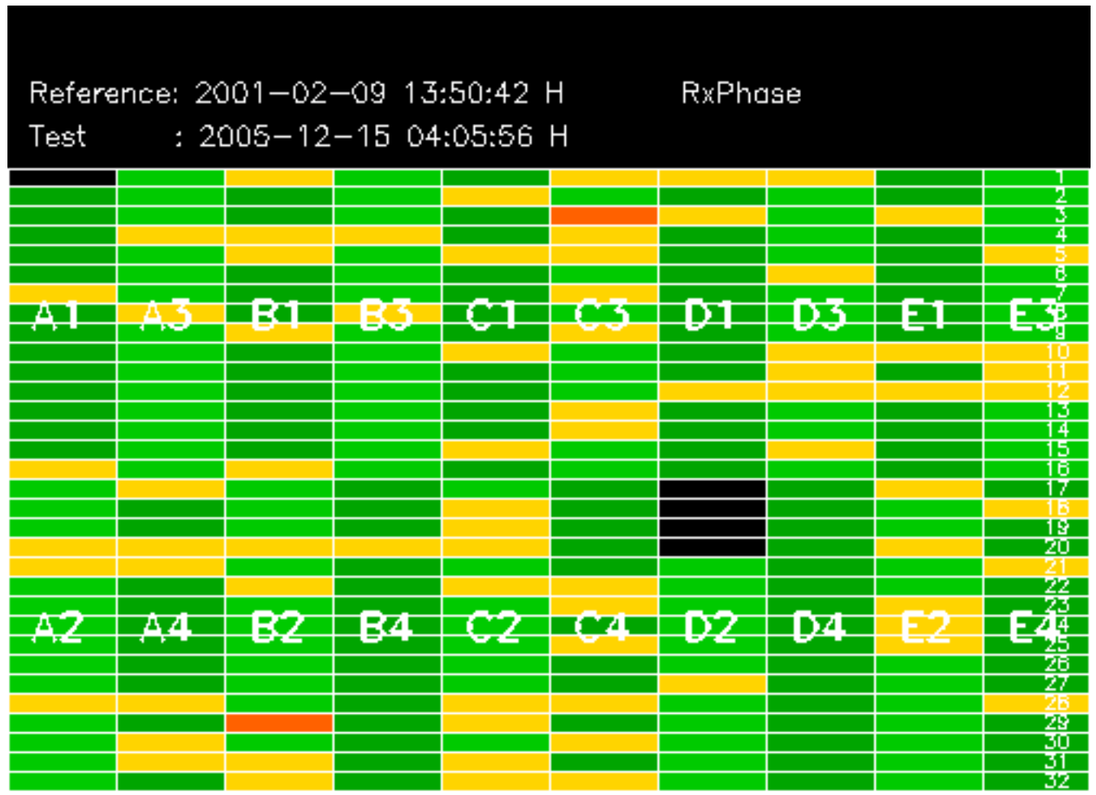
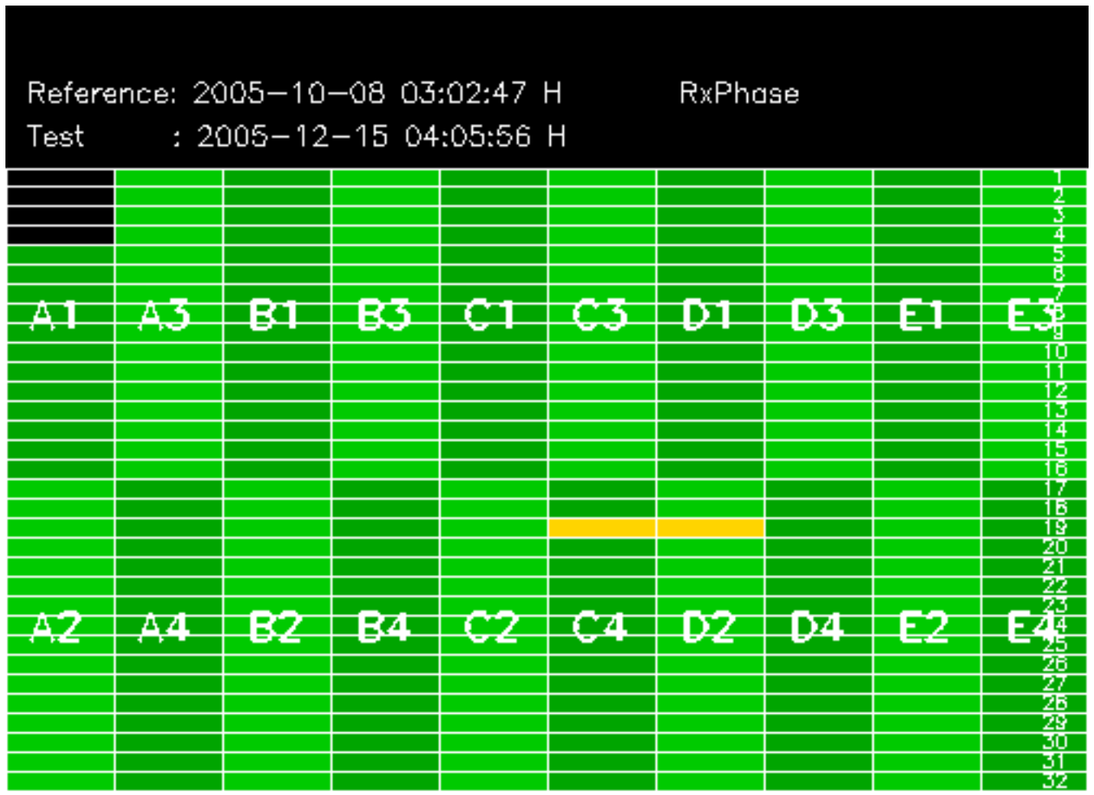

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2005-12-15 04:05:56 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2005-12-15 04:05:56 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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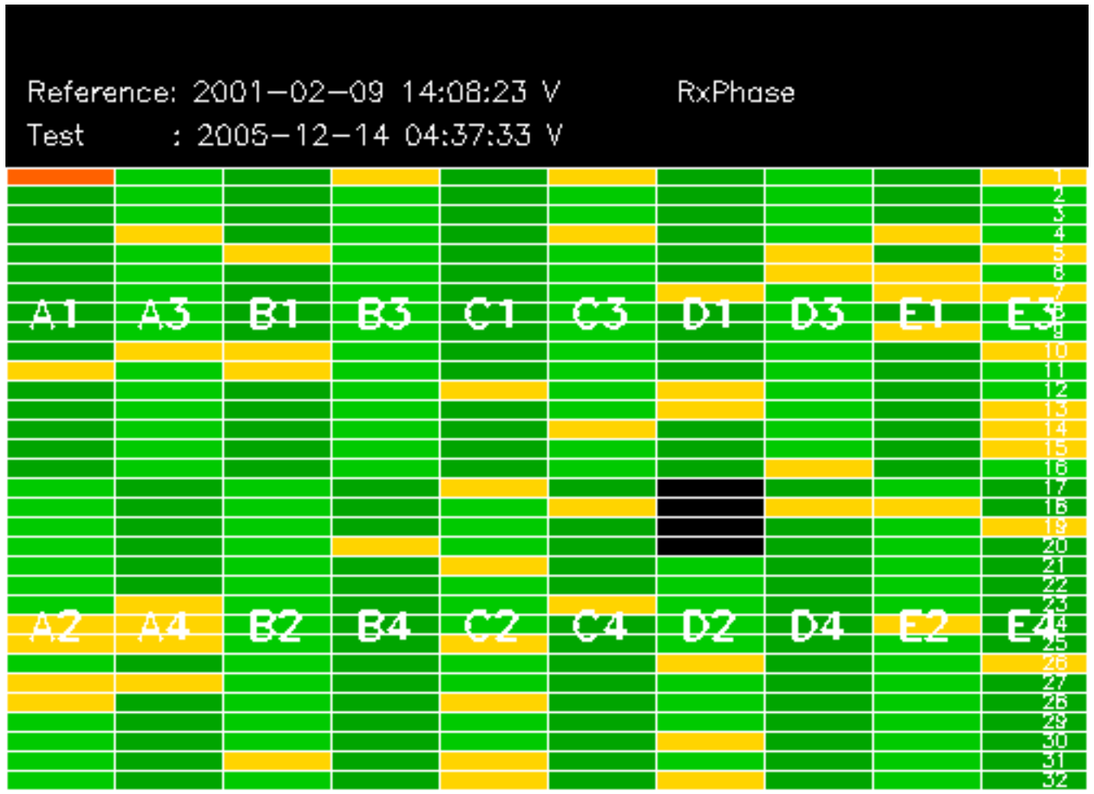
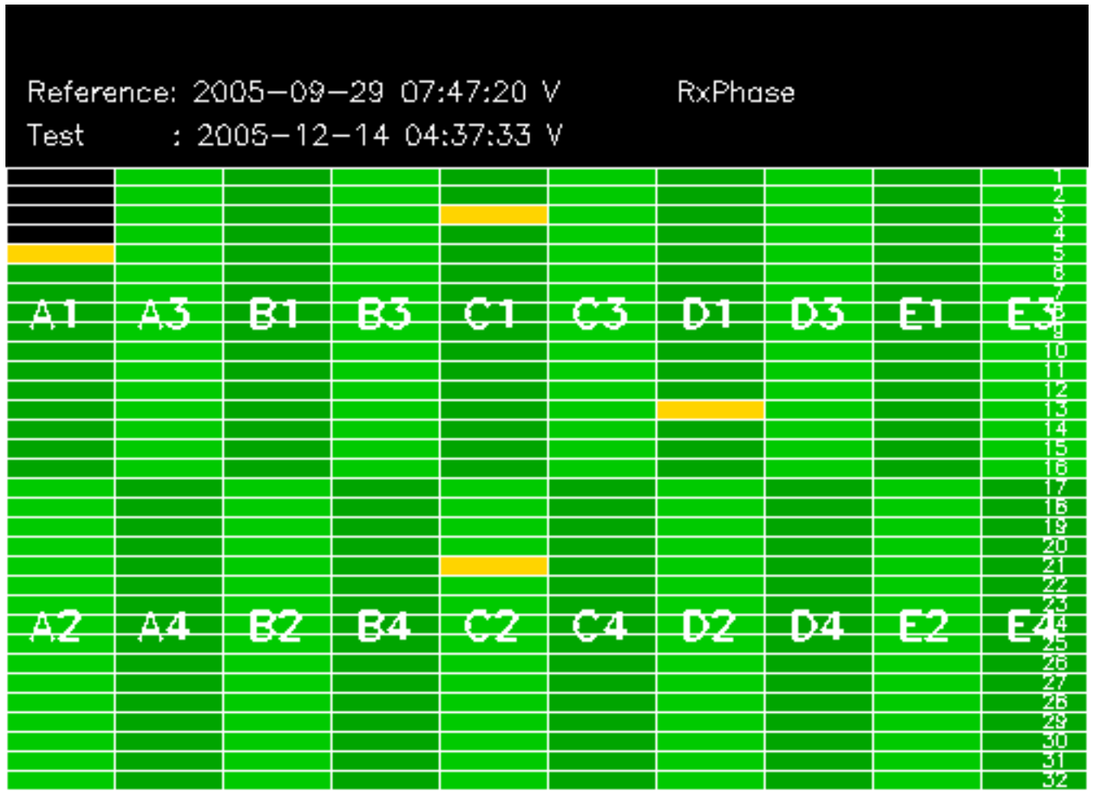

Reference: 2001-02-09 14:08:23 V
Test : 2005-12-14 04:37:33 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2005-12-14 04:37:33 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
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9
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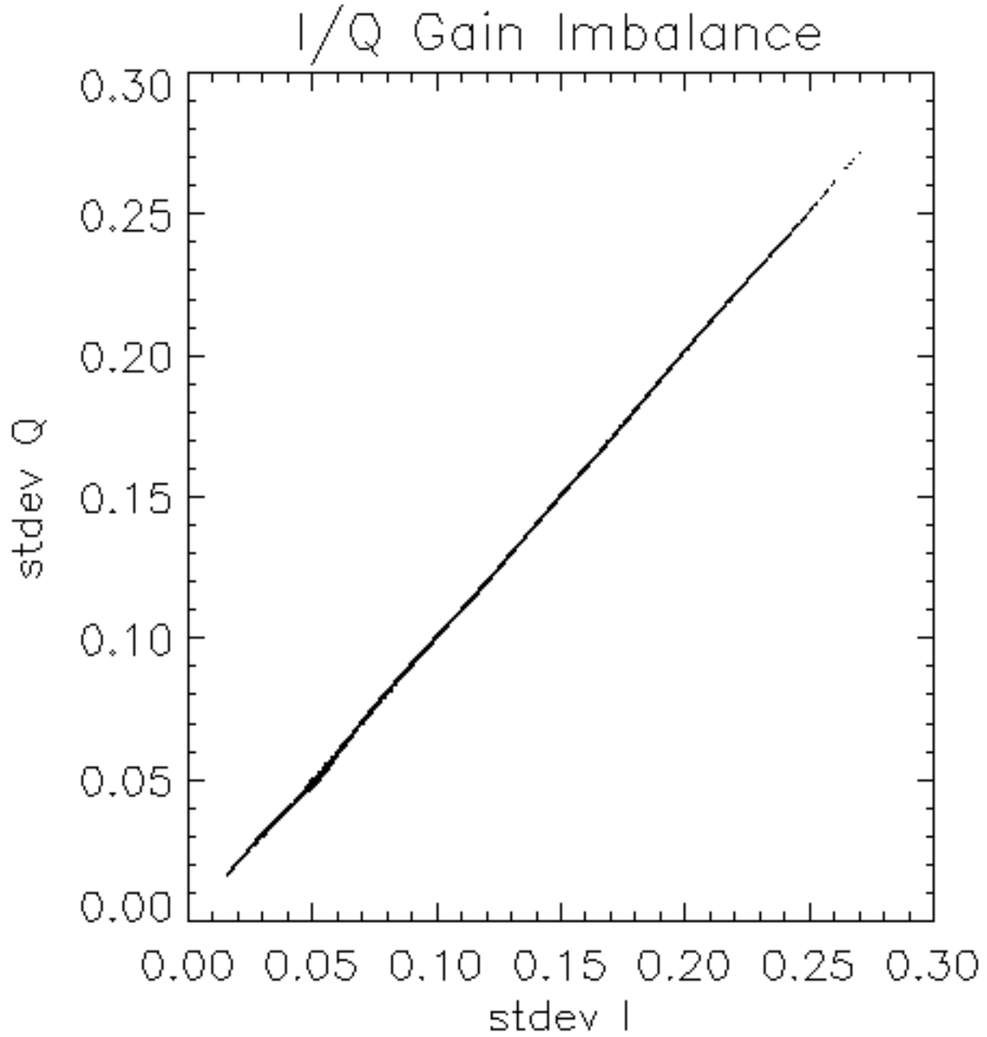
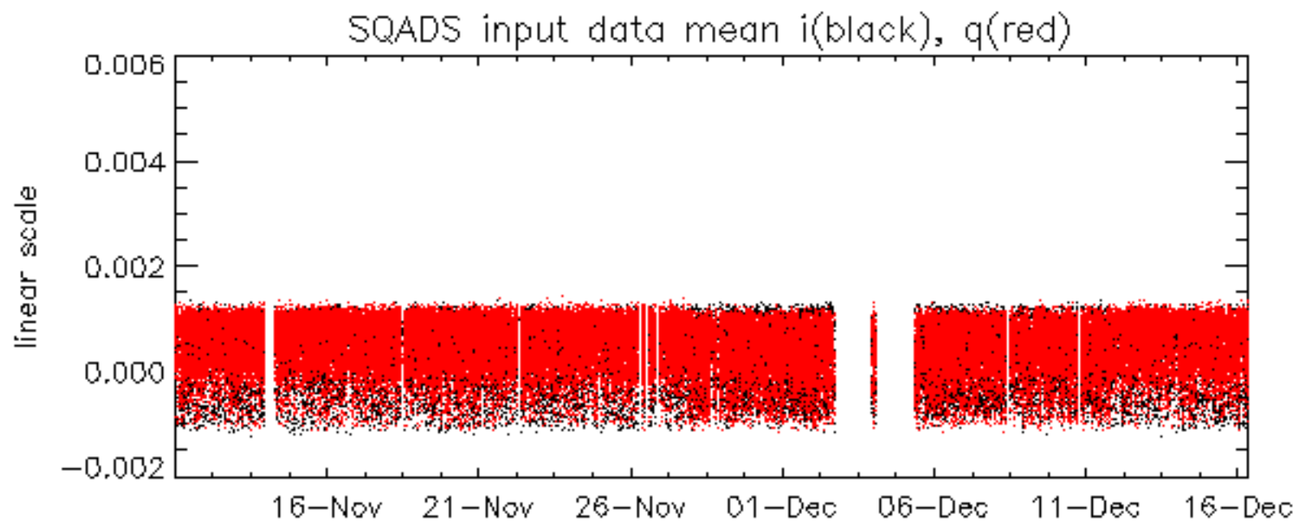
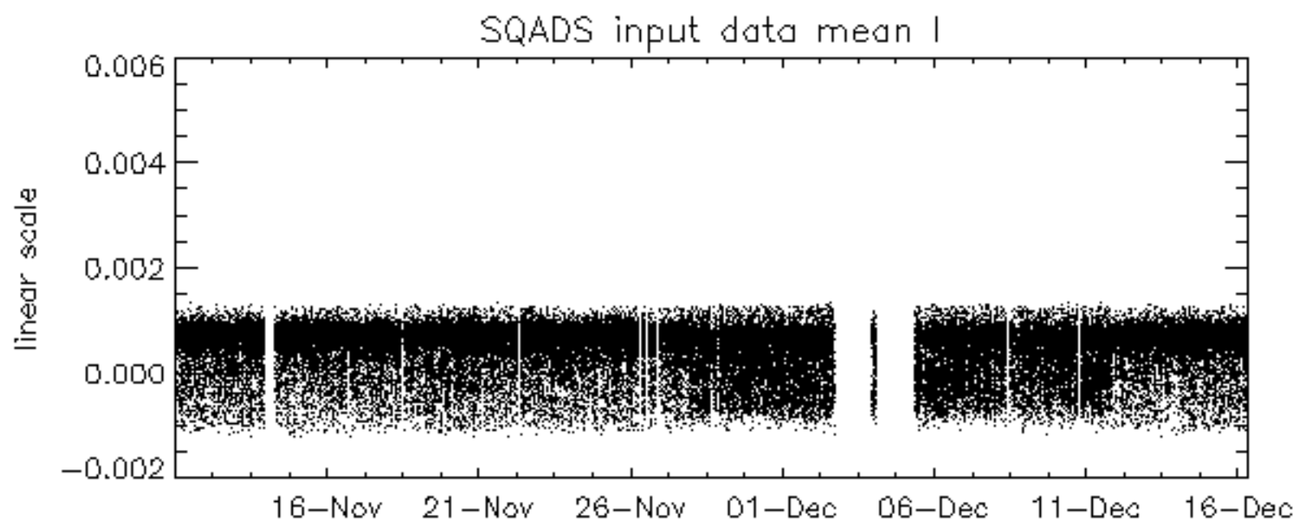
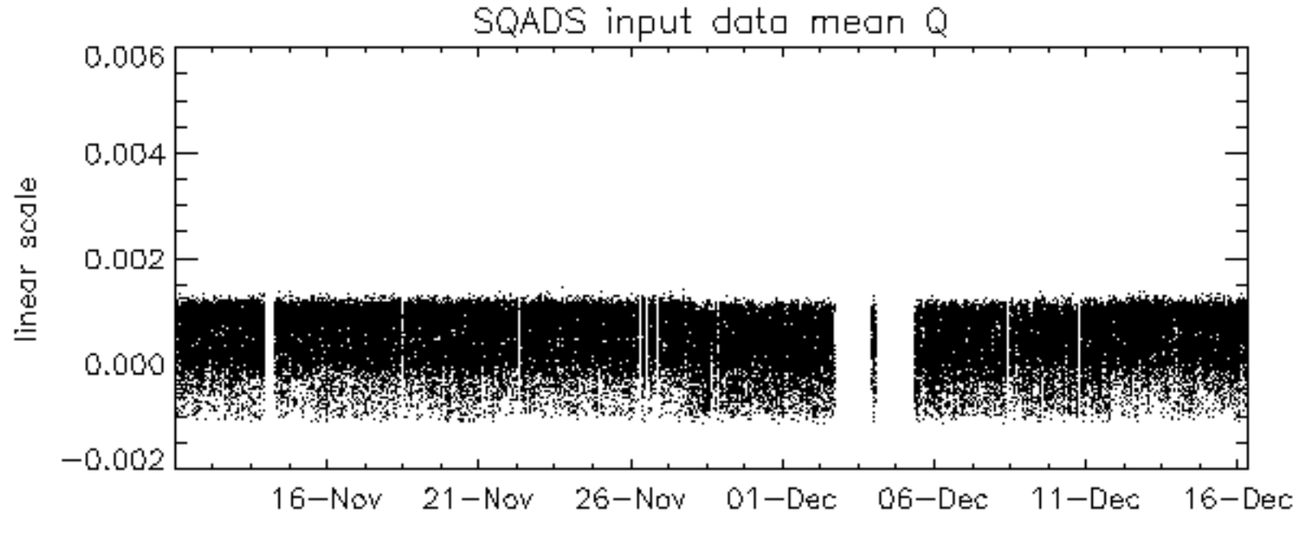
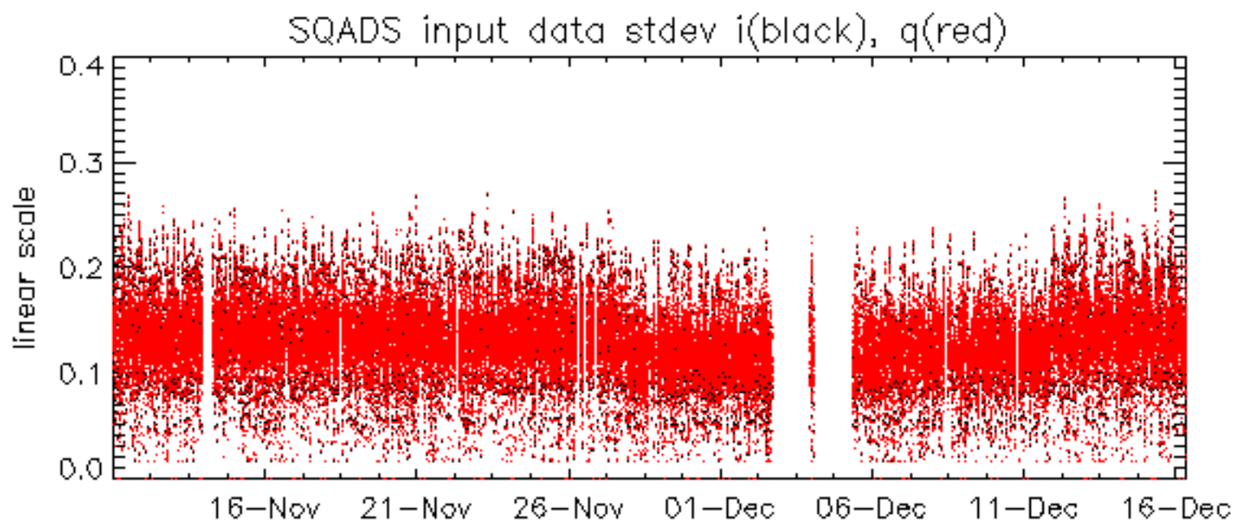
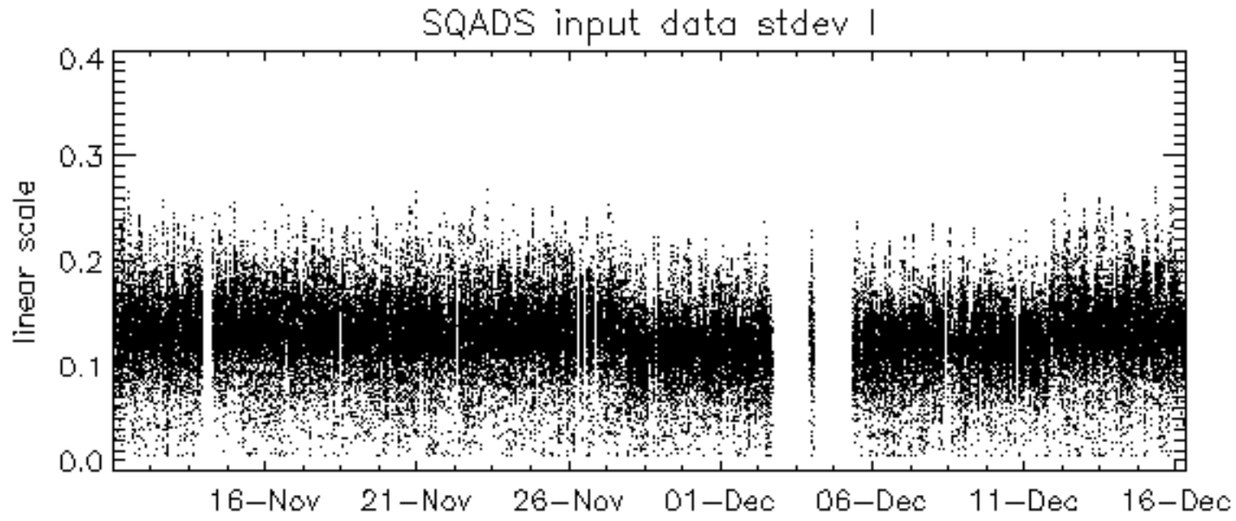

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

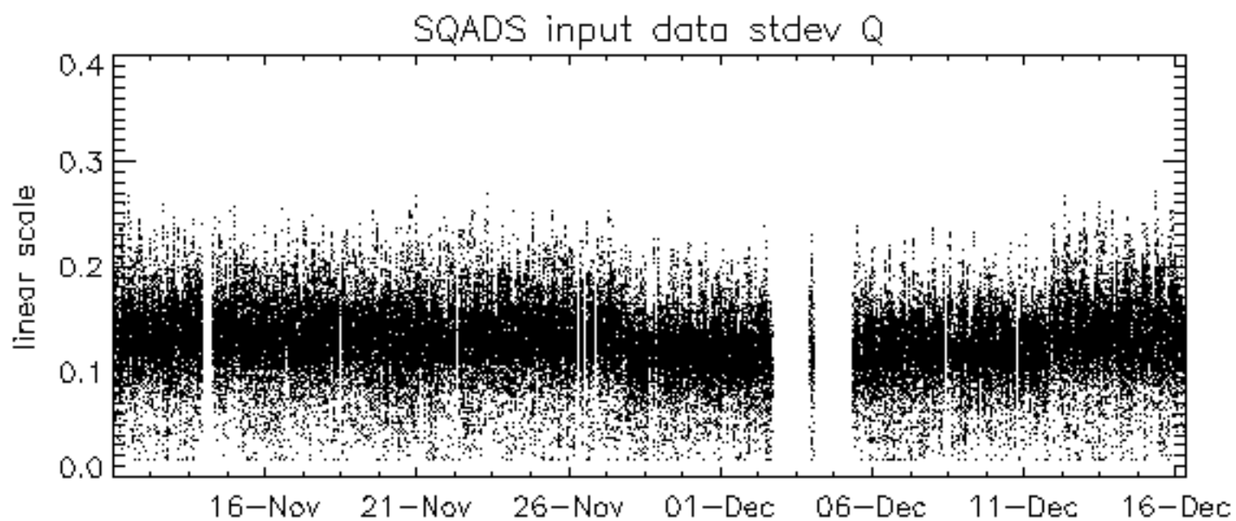

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
11−Dec
16−Dec

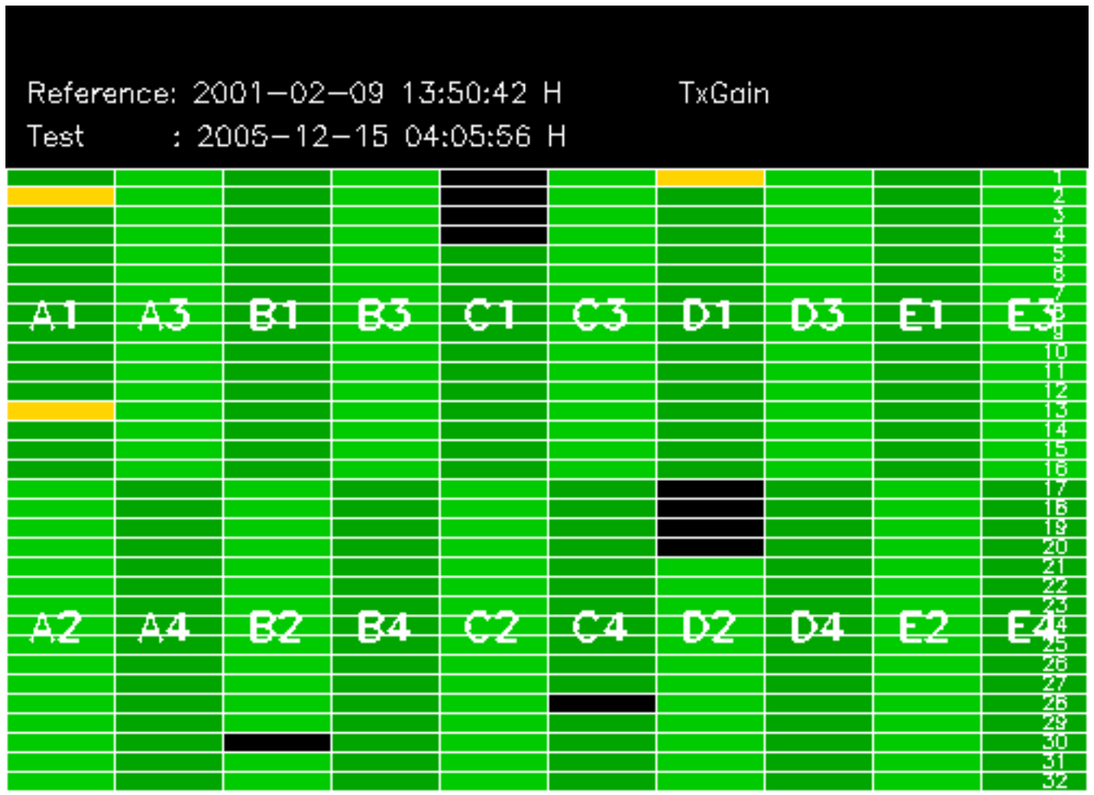

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
11−Dec
16−Dec


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


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


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
16-Nov
21-Nov
26-Nov
01-Dec
06-Dec
11-Dec
16-Dec


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
16-Nov
21-Nov
26-Nov
01-Dec
06-Dec
11-Dec
16-Dec


Reference: 2001-02-09 13:50:42 H
Test : 2005-12-15 04:05:56 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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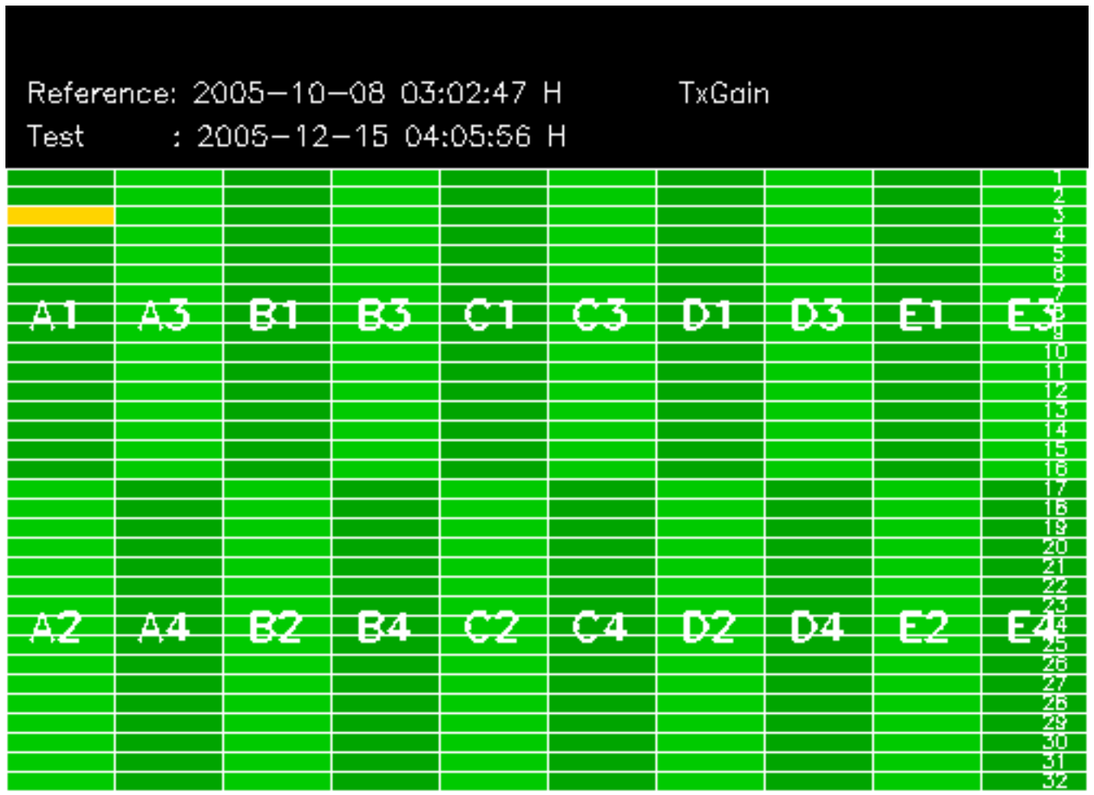
Reference: 2005-10-08 03:02:47 H
Test : 2005-12-15 04:05:56 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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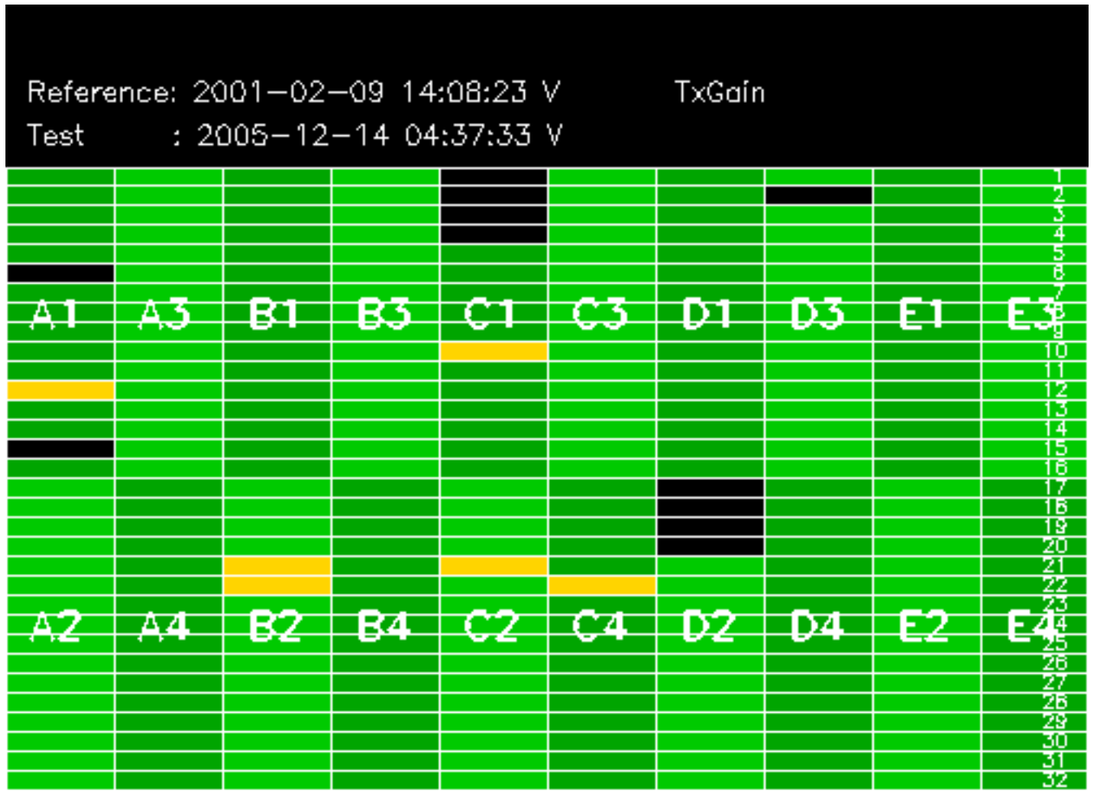
Reference: 2001-02-09 14:08:23 V
Test : 2005-12-14 04:37:33 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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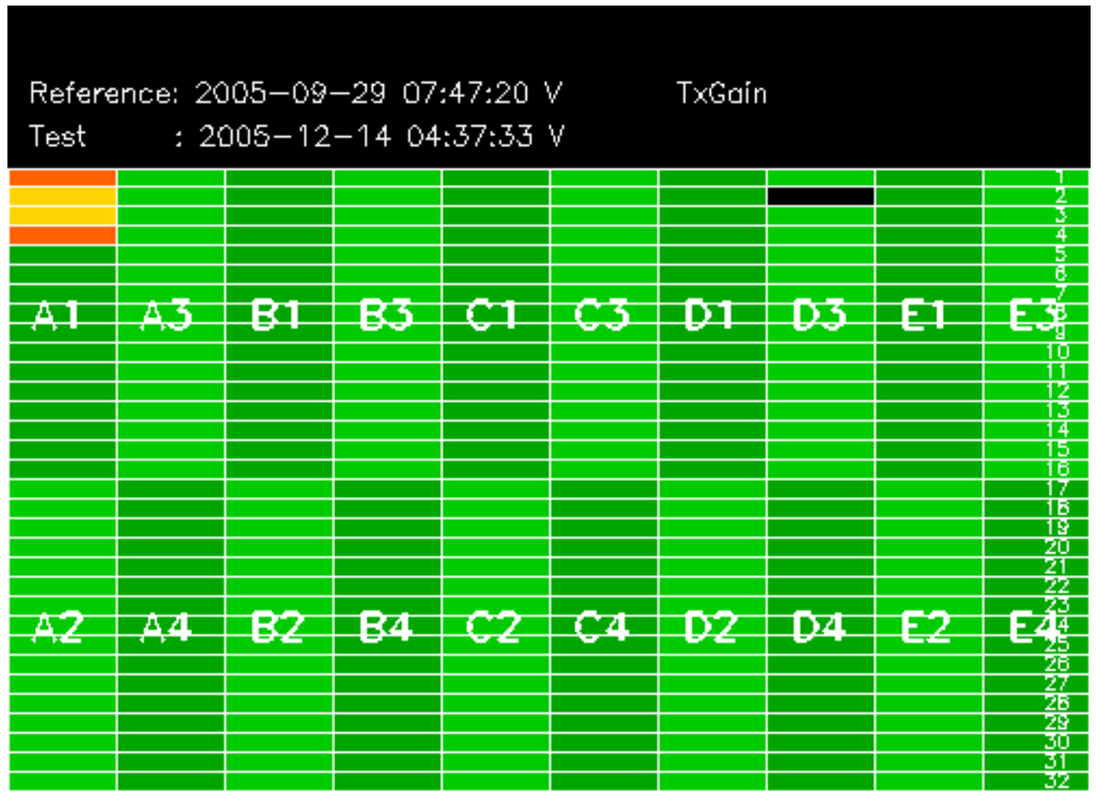
Reference: 2005-09-29 07:47:20 V
Test : 2005-12-14 04:37:33 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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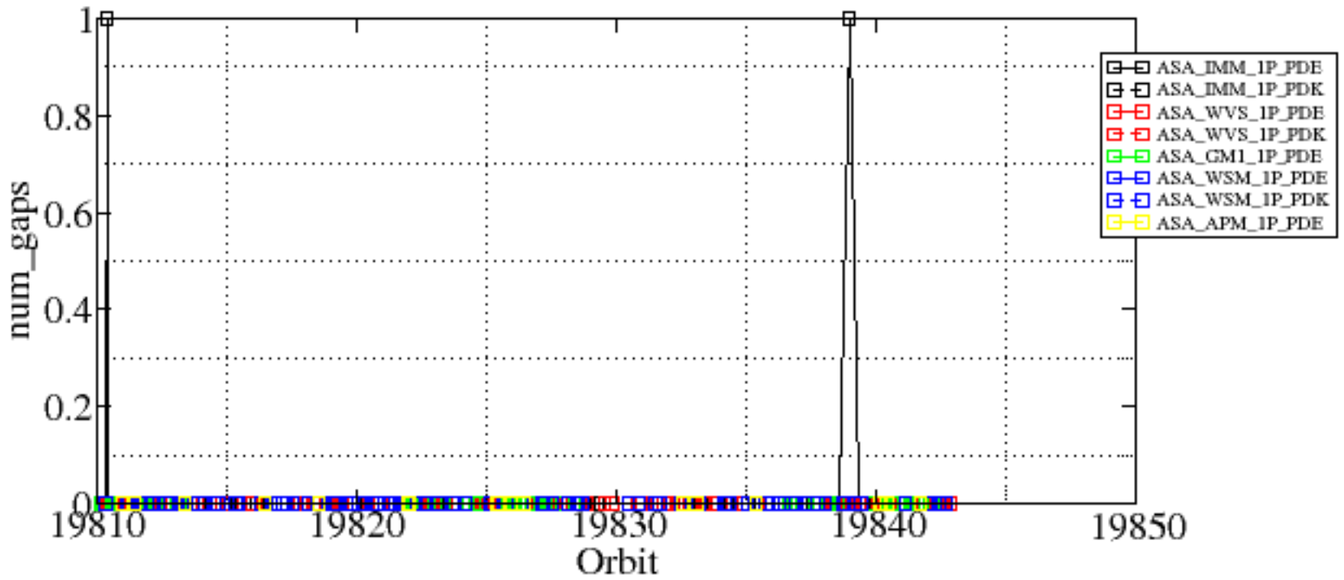
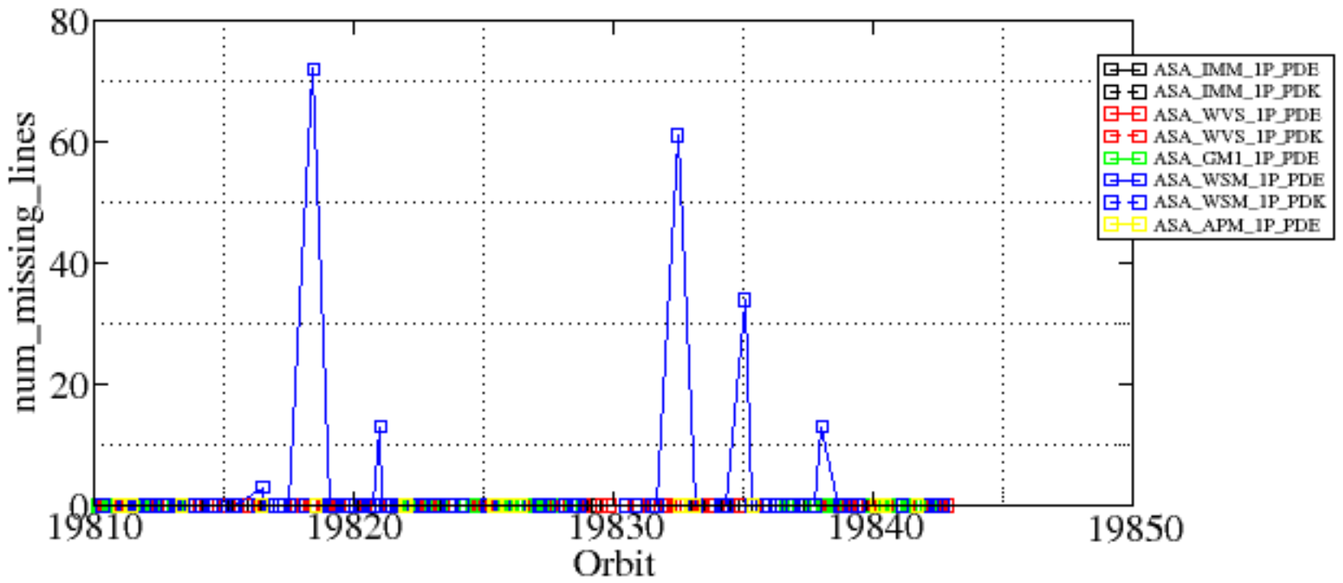
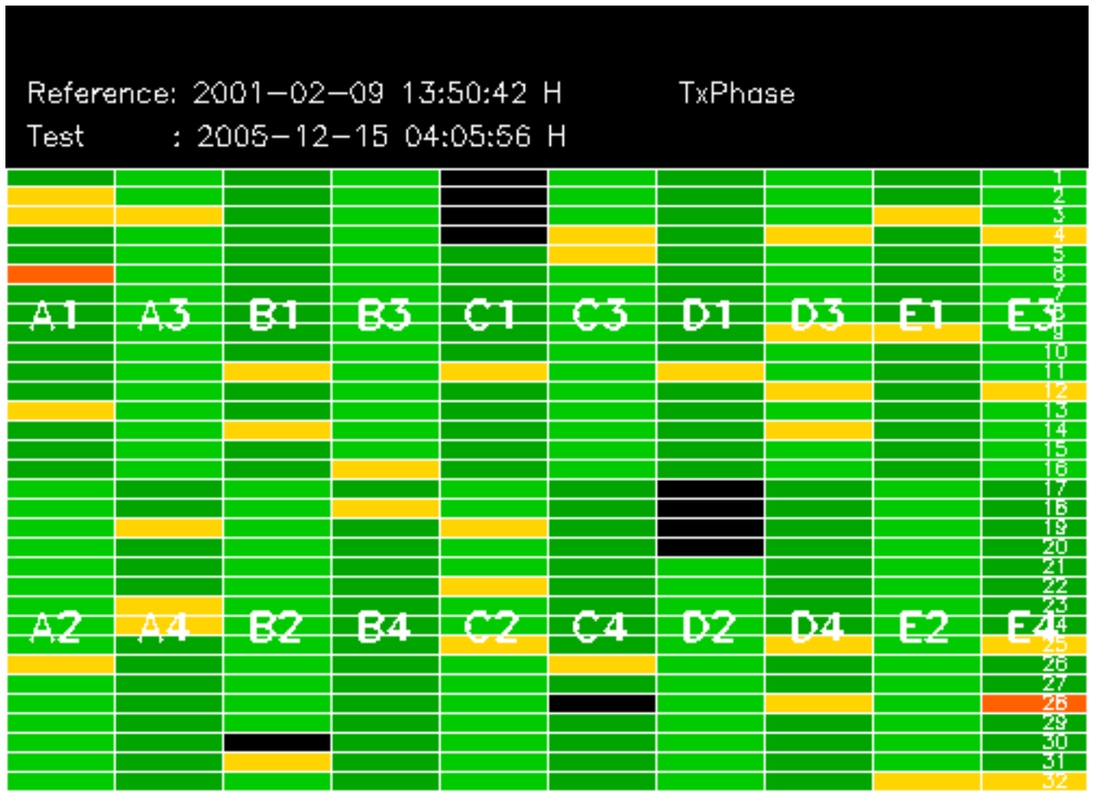
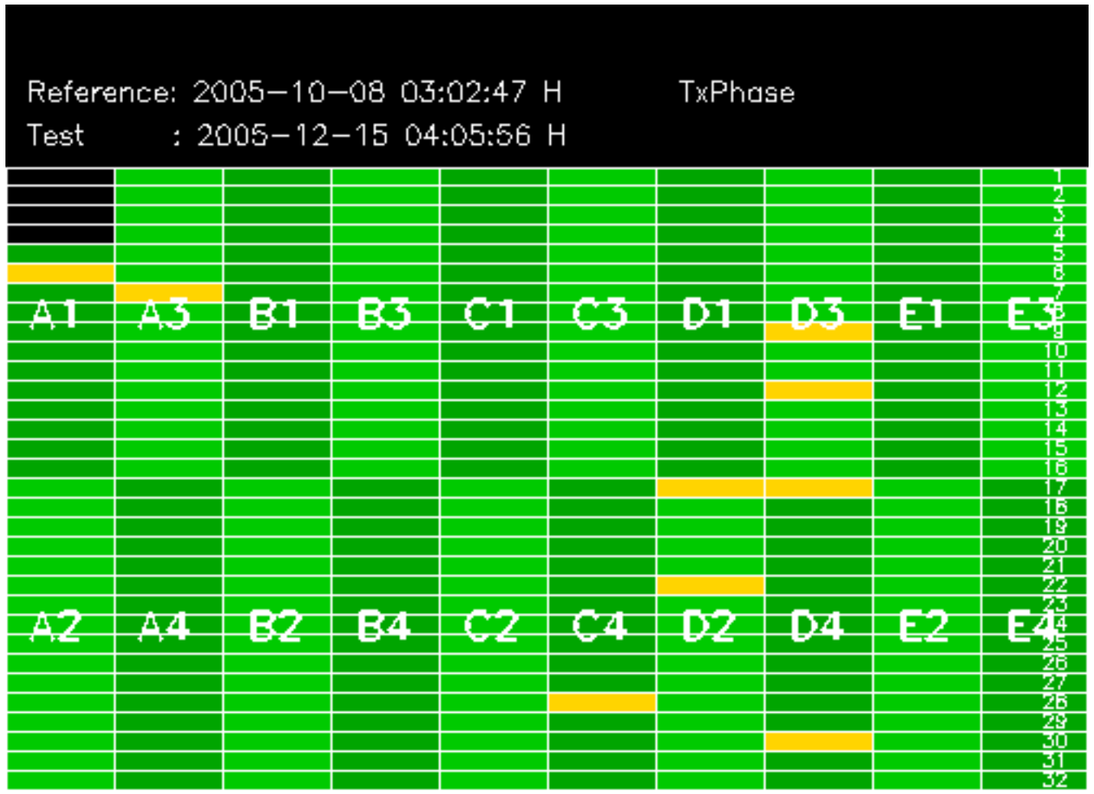
Summary of analysis for the last 3 days 2005121[456]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20051214_004627_000001012043_00217_19810_3913.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20051216_004204_000002002043_00245_19838_4039.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051214_110145_000000672043_00223_19816_4200.N1 </td> <td>0 </td> <td>3 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051214_141859_000002072043_00225_19818_4318.N1 </td> <td>0 </td> <td>72 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051214_183928_000000672043_00228_19821_4365.N1 </td> <td>0 </td> <td>13 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051215_134913_000000672043_00239_19832_4387.N1 </td> <td>0 </td> <td>61 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051215_180902_000001032043_00242_19835_4404.N1 </td> <td>0 </td> <td>34 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051215_230839_000001092043_00245_19838_4458.N1 </td> <td>0 </td> <td>13 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
19810
19820
19830
19840
19850
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


num_missing_lines
Orbit
0
20
40
60
80
19810
19820
19830
19840
19850
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


Reference: 2001-02-09 13:50:42 H
Test : 2005-12-15 04:05:56 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2005-12-15 04:05:56 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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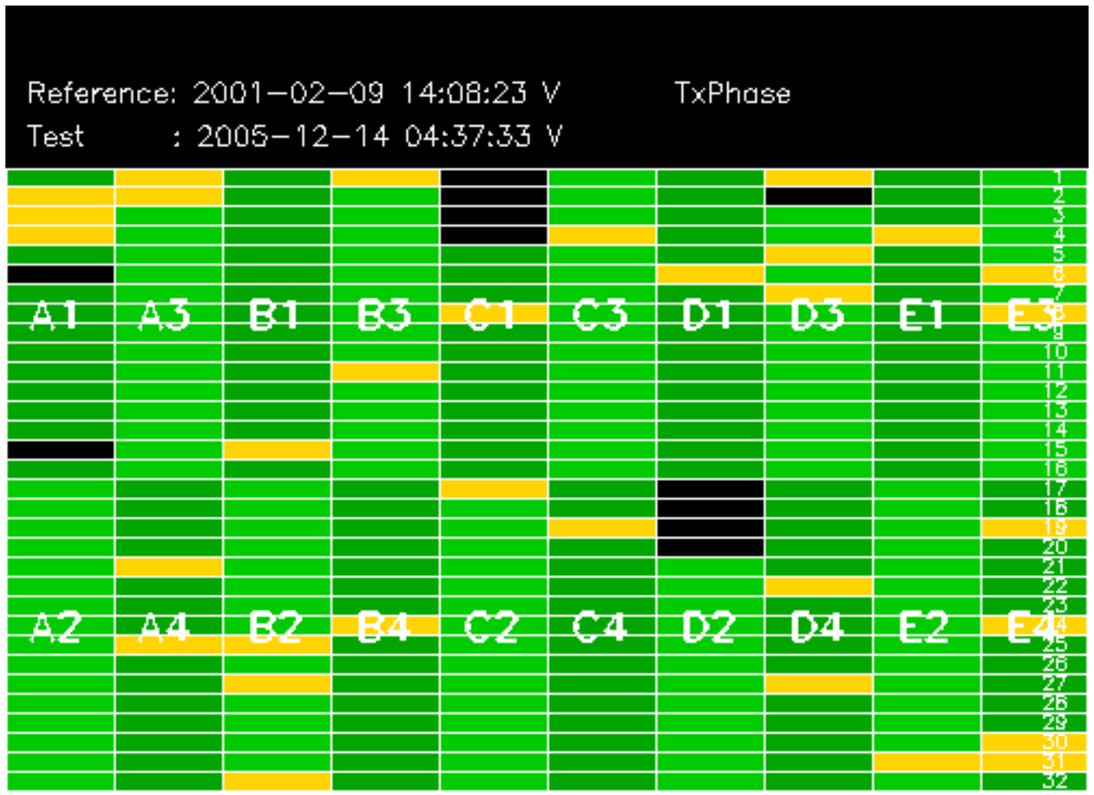
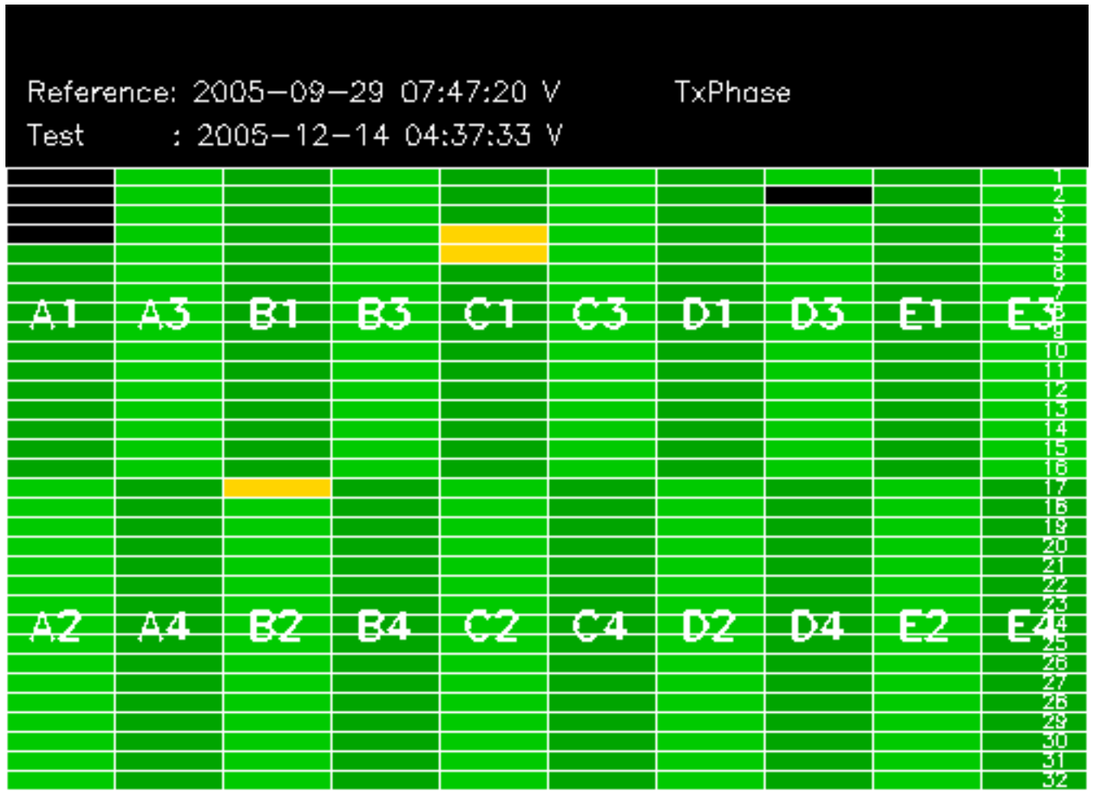

Reference: 2001-02-09 14:08:23 V
Test : 2005-12-14 04:37:33 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
TxPhase
Test : 2005-12-14 04:37:33 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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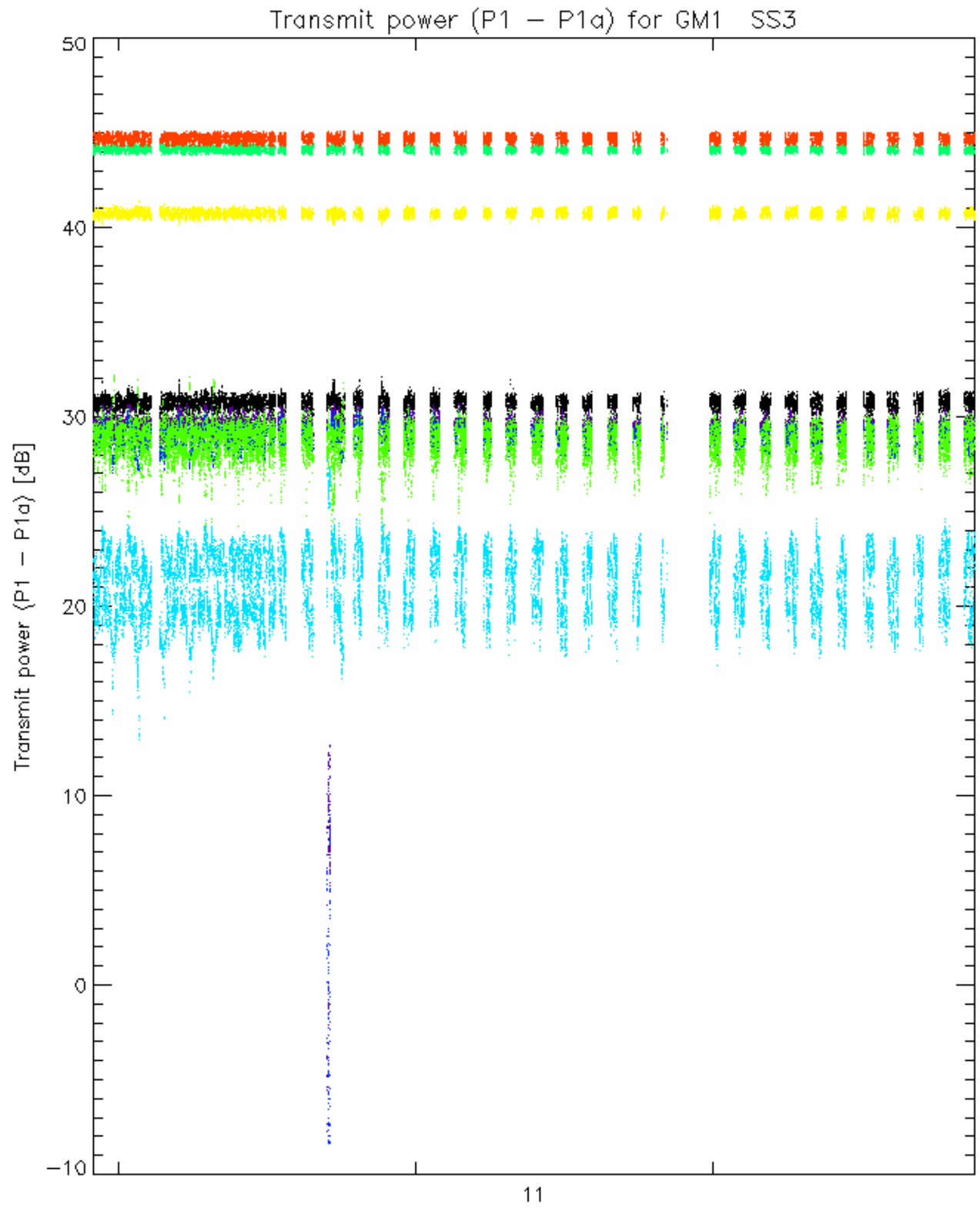
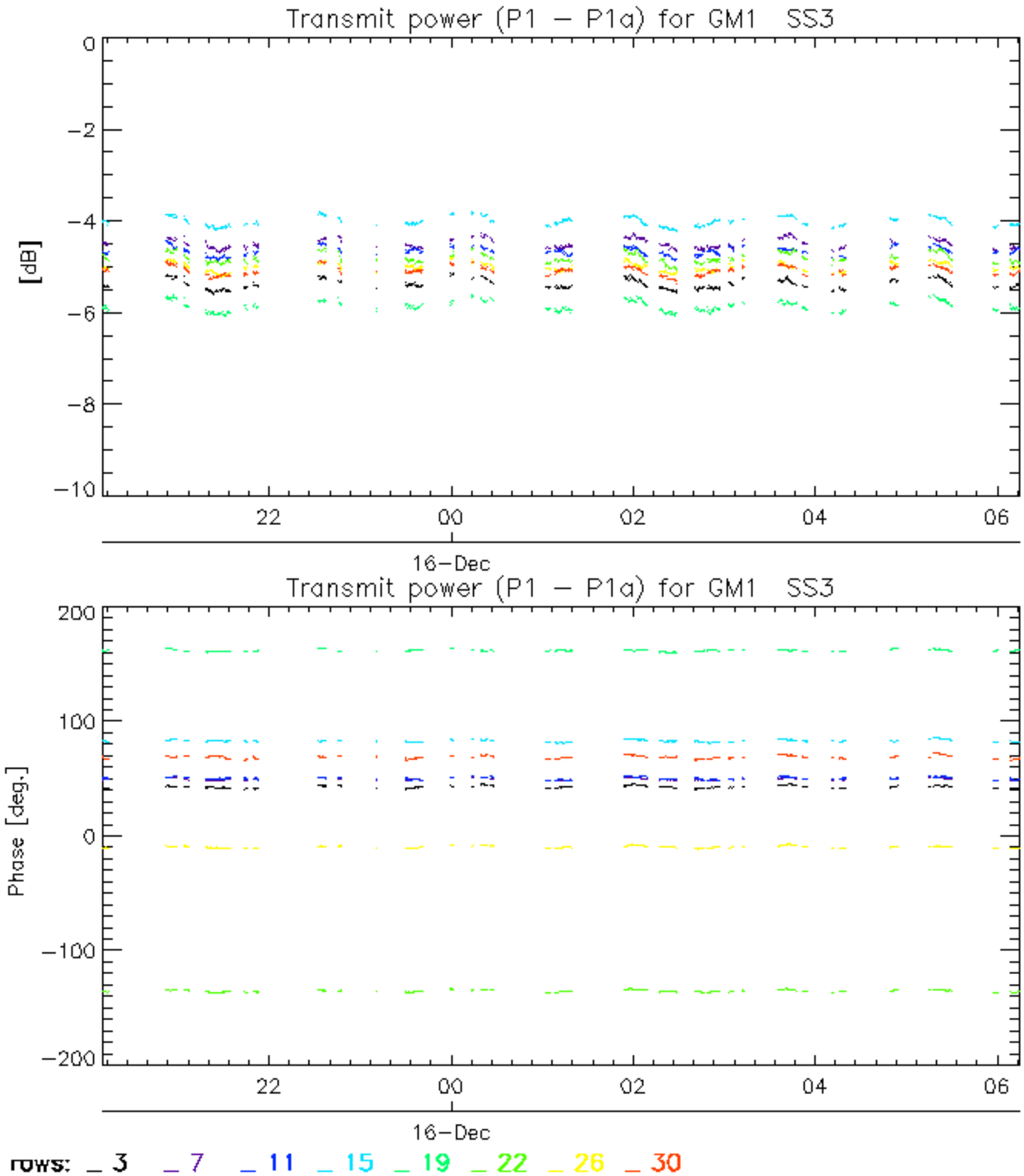
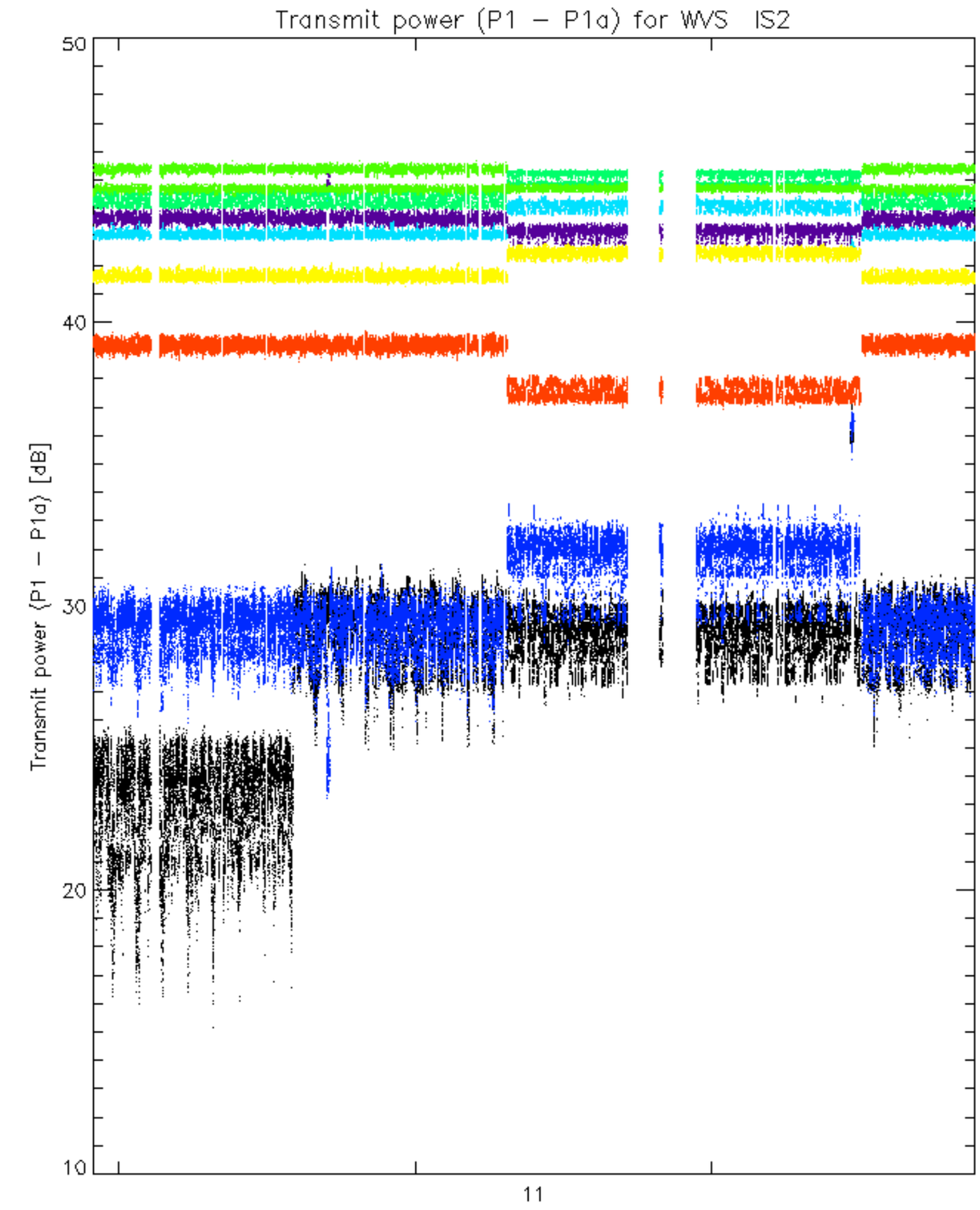
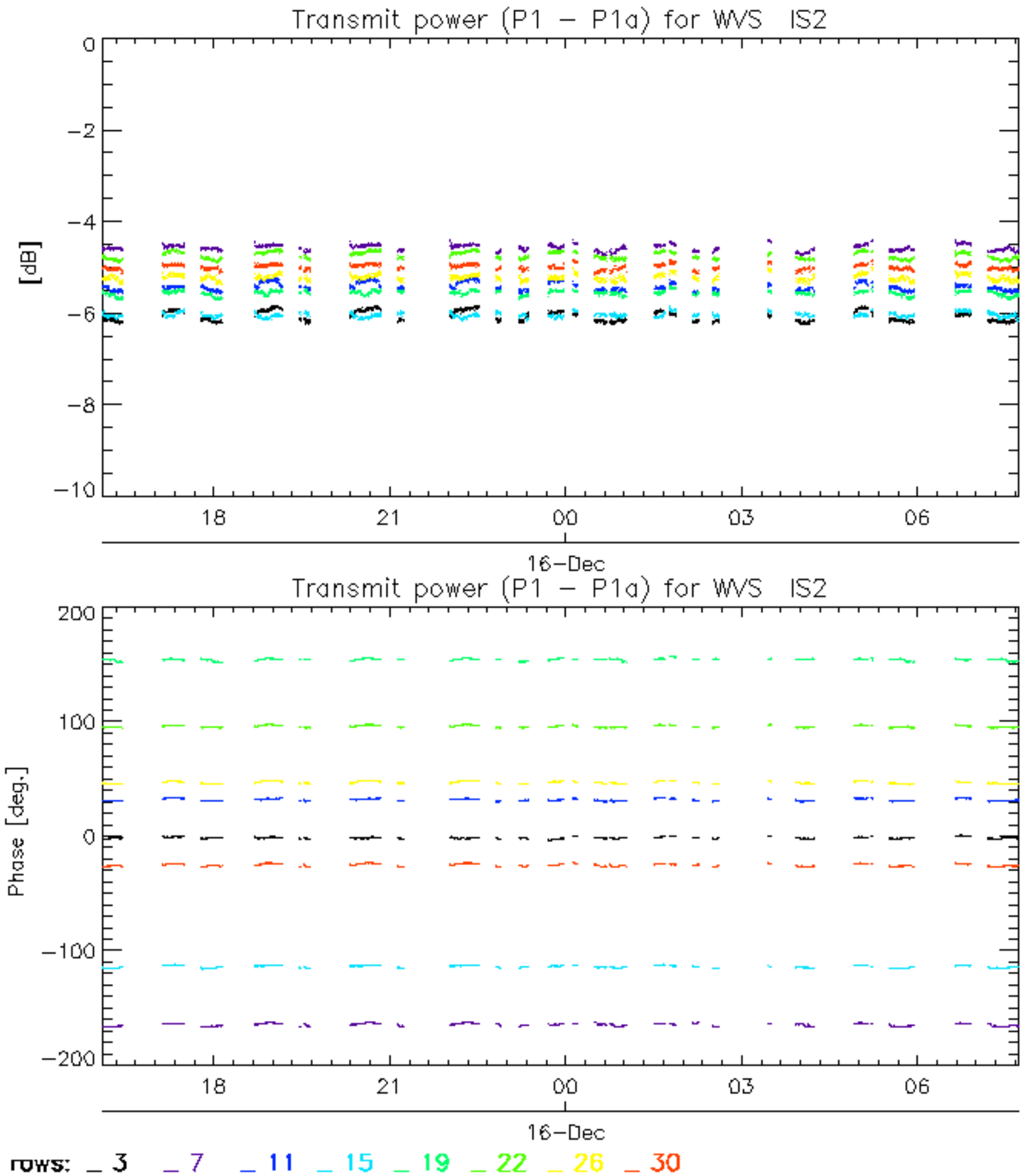

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
11
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
22
00
02
04
06
16−Dec
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
22
00
02
04
06
16−Dec
rows: 3 7 11 15 19 22 26 30


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

No unavailabilities during the reported period.