PRELIMINARY REPORT OF 070113

last update on Sat Jan 13 11:00:01 GMT 2007

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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 2007-01-12 00:00:00 to 2007-01-13 11:00:01

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	31	54	13	0	1
ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000	31	54	13	0	1
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	31	54	13	0	1
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	31	54	13	0	1

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	39	41	41	8	38
ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000	39	41	41	8	38
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	39	41	41	8	38
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	39	41	41	8	38

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	20070112 063522
H	20070113 060345

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
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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
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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	-3.964464	0.007570	-0.010095
7	P1	-3.143818	0.049406	0.034088
11	P1	-4.120185	0.025225	0.013955
15	P1	-6.333819	0.016186	-0.001162
19	P1	-3.680869	0.005945	-0.041968
22	P1	-4.676467	0.015859	-0.033640
26	P1	-3.955714	0.009984	0.008202
30	P1	-5.915989	0.008719	-0.022697
3	P1	-16.521544	0.258741	-0.020090
7	P1	-17.281836	0.190038	0.134392
11	P1	-17.267673	0.456719	-0.056813
15	P1	-13.046415	0.129026	0.075112
19	P1	-15.073174	0.109725	-0.096492
22	P1	-15.829814	0.556704	0.174871
26	P1	-15.030770	0.188278	0.013352
30	P1	-17.549417	0.495805	0.081214

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.795652	0.090415	0.028741
7	P2	-21.679285	0.089202	0.062773
11	P2	-15.540116	0.099903	0.018944
15	P2	-7.100466	0.104725	0.039664
19	P2	-9.182423	0.098557	0.055249
22	P2	-18.231306	0.091681	0.029126
26	P2	-16.600395	0.103663	0.034245
30	P2	-19.441759	0.085753	0.036220

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.239756	0.008576	0.001092
7	P3	-8.239756	0.008576	0.001092
11	P3	-8.239756	0.008576	0.001092
15	P3	-8.239756	0.008576	0.001092
19	P3	-8.239756	0.008576	0.001092
22	P3	-8.239756	0.008576	0.001092
26	P3	-8.239778	0.008575	0.001137
30	P3	-8.239778	0.008575	0.001137

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	-3.920420	0.014150	0.009986
7	P1	-2.476945	0.076451	0.015026
11	P1	-2.830927	0.016391	0.056723
15	P1	-3.705838	0.031980	-0.011776
19	P1	-3.550100	0.019050	-0.001285
22	P1	-5.005204	0.022837	0.055915
26	P1	-6.041659	0.025969	-0.014937
30	P1	-5.350667	0.037148	-0.021511
3	P1	-11.724316	0.086652	0.043085
7	P1	-10.042736	0.095174	0.091676
11	P1	-10.357076	0.094430	0.019427
15	P1	-10.732169	0.153716	0.008481
19	P1	-15.743988	0.111551	-0.049548
22	P1	-21.564169	1.426843	0.085832
26	P1	-15.994822	0.314163	0.123257
30	P1	-17.906633	0.361333	-0.072027

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.436792	0.101881	0.070485
7	P2	-22.193092	0.239797	0.044573
11	P2	-10.841863	0.110107	0.042110
15	P2	-4.965982	0.218548	0.041079
19	P2	-6.949839	0.220786	0.046997
22	P2	-8.235385	0.115642	0.033621
26	P2	-24.344227	0.177469	-0.025284
30	P2	-21.909966	0.144354	0.084063

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.089056	0.003405	-0.003542
7	P3	-8.088770	0.003388	-0.003097
11	P3	-8.088956	0.003406	-0.003237
15	P3	-8.088833	0.003399	-0.004091
19	P3	-8.088878	0.003408	-0.003455
22	P3	-8.088720	0.003412	-0.003847
26	P3	-8.089095	0.003407	-0.003344
30	P3	-8.088871	0.003390	-0.002838

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	0.000568209
	stdev	1.64603e-07
MEAN Q	mean	0.000504209
	stdev	2.12980e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.140411
	stdev	0.00120561
STDEV Q	mean	0.140813
	stdev	0.00122626

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2007011[123]
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_1PNPDE20070113_024624_000001482054_00361_25465_5301.N1	1	1
ASA_GM1_1PNPDK20070111_093819_000005432054_00337_25441_2629.N1	0	6
ASA_GM1_1PNPDK20070112_072909_000005072054_00350_25454_3551.N1	0	24
ASA_WSM_1PNPDE20070111_042351_000000672054_00334_25438_2884.N1	0	45
ASA_WSM_1PNPDE20070111_042351_000001842054_00334_25438_3099.N1	0	45
ASA_WSM_1PNPDE20070111_133030_000000852054_00339_25443_3444.N1	0	76
ASA_WSM_1PNPDE20070112_143842_000003232054_00354_25458_4789.N1	0	8
ASA_WSM_1PNPDE20070112_171324_000002322054_00356_25460_4821.N1	0	4

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

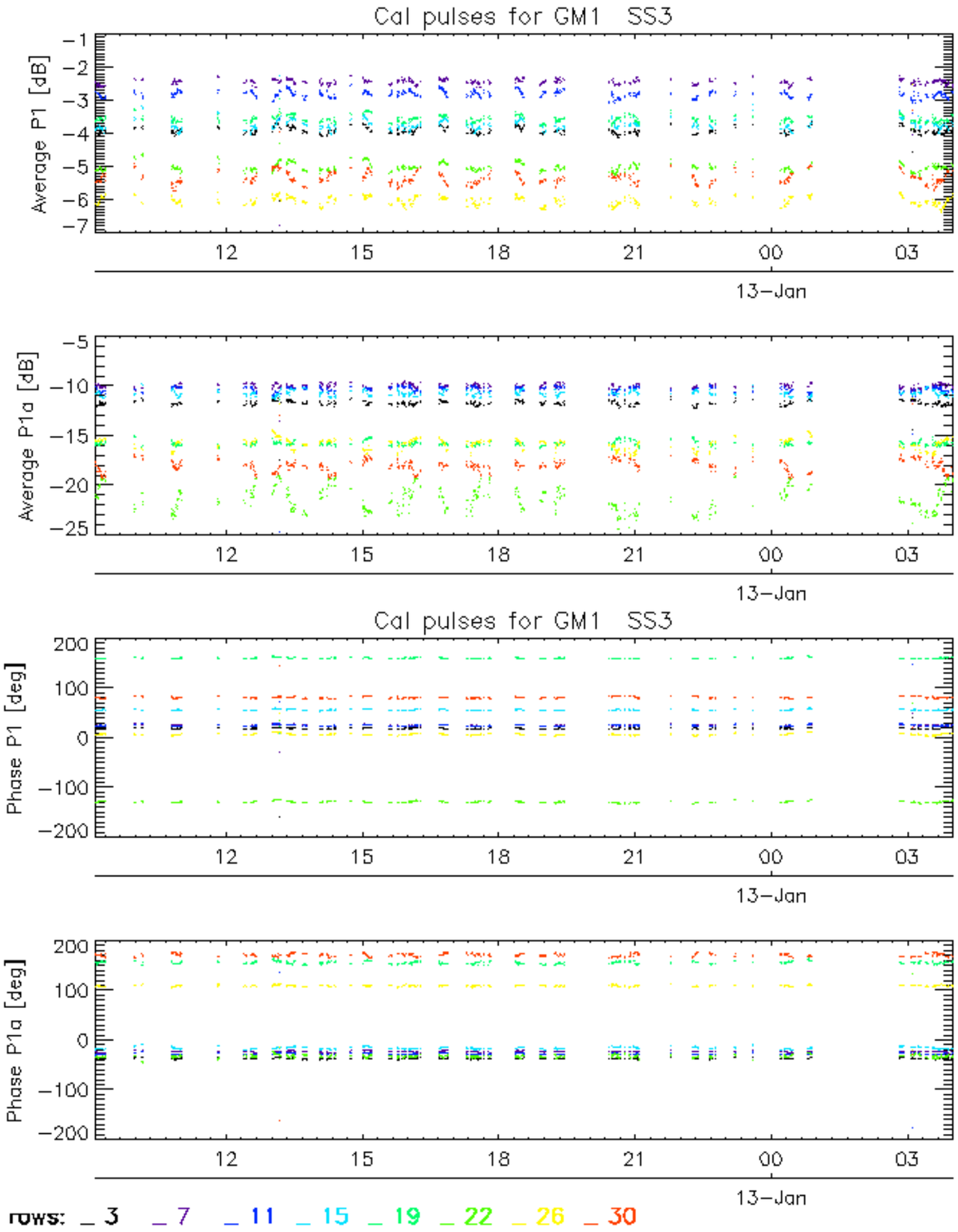
Evolution of Absolute Doppler

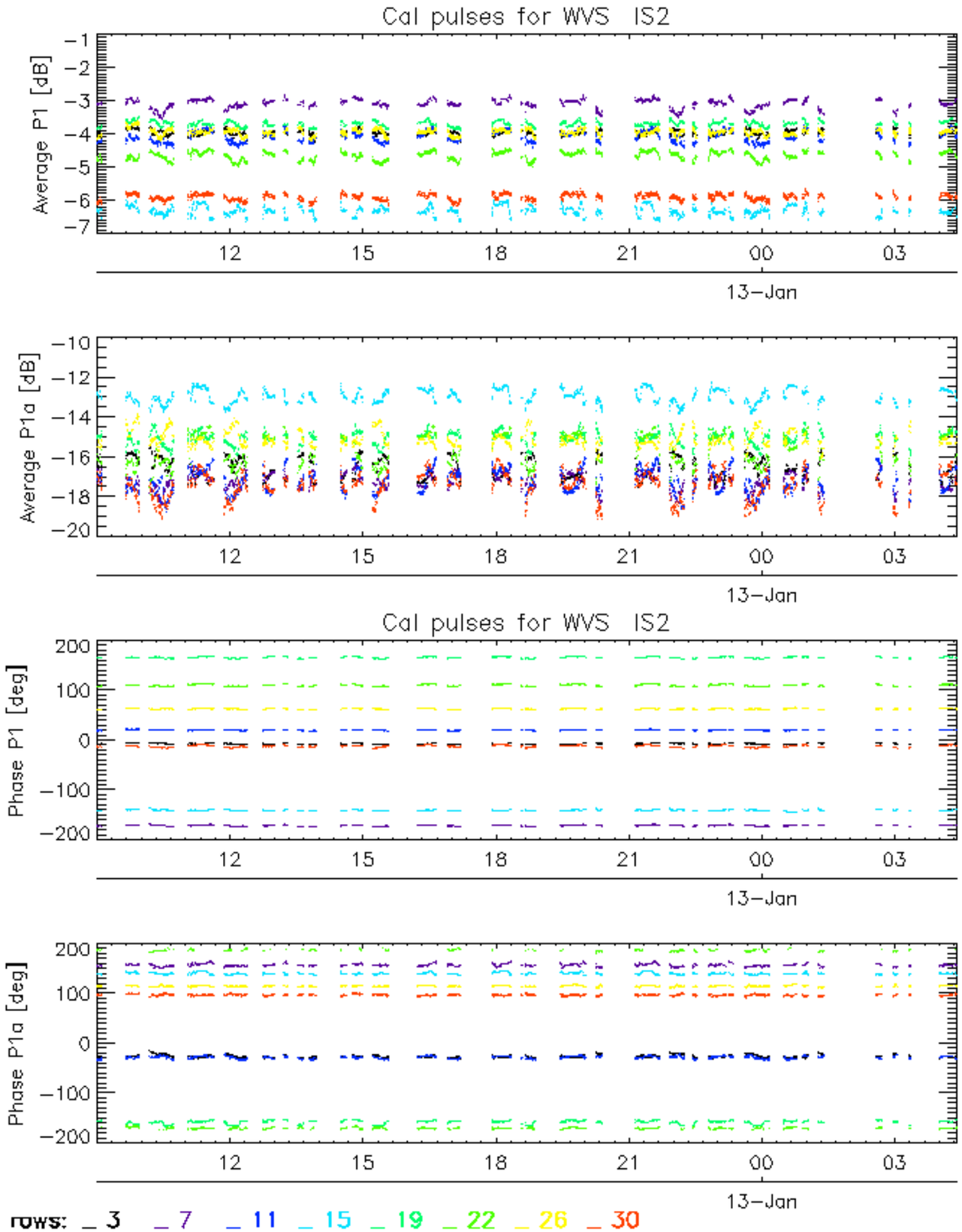
Acsending

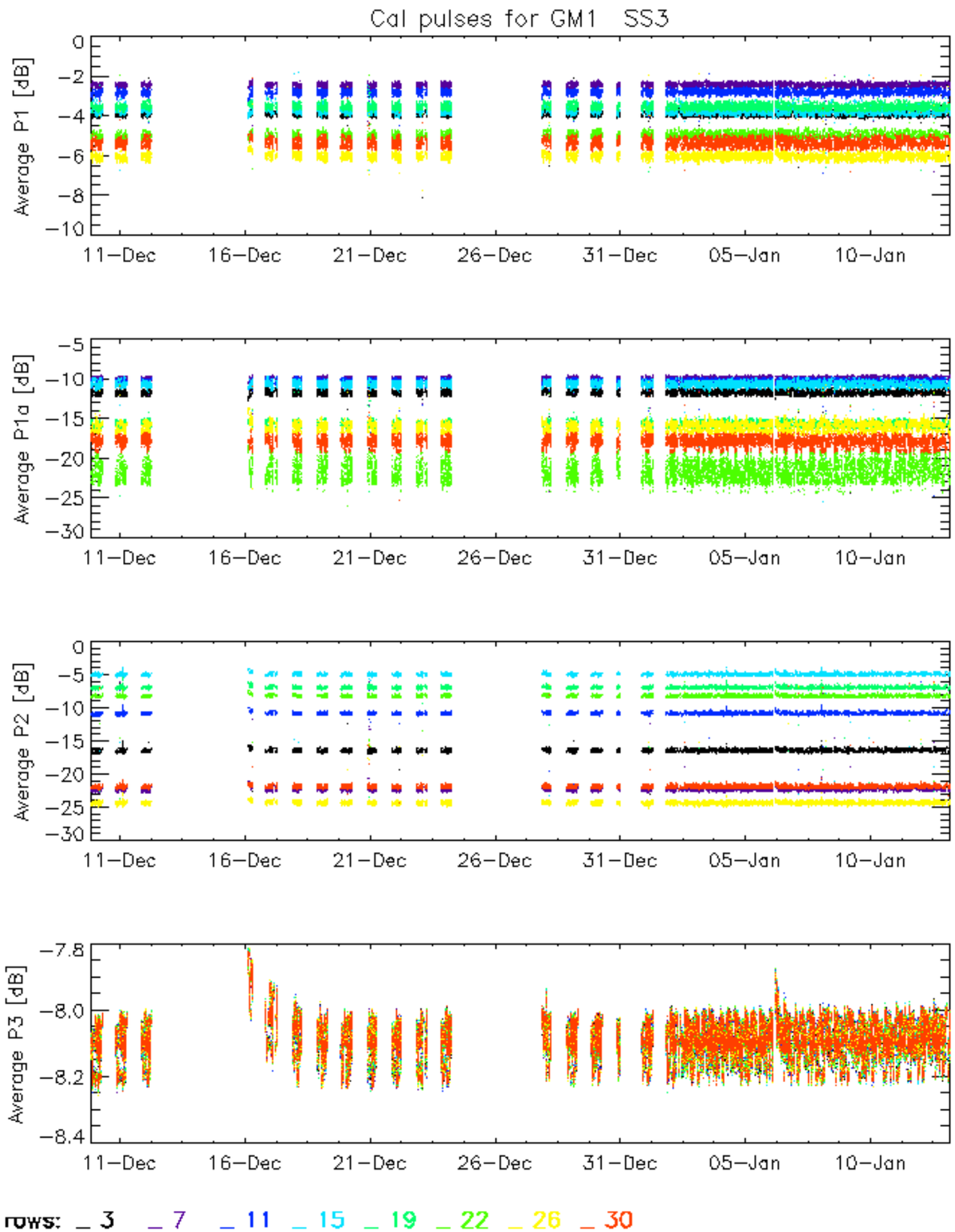
Descending

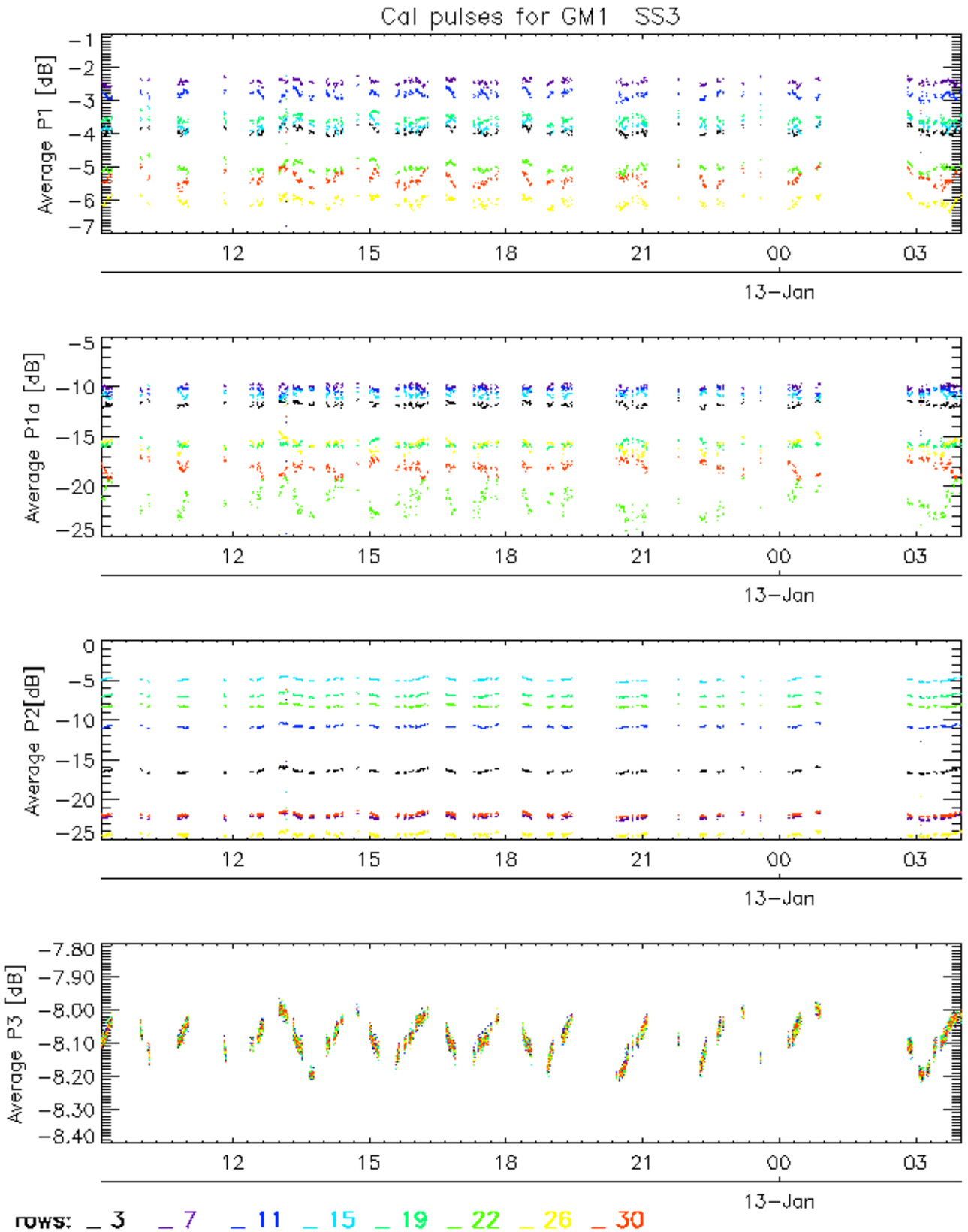
7.6 - Doppler evolution versus ANX for GM1

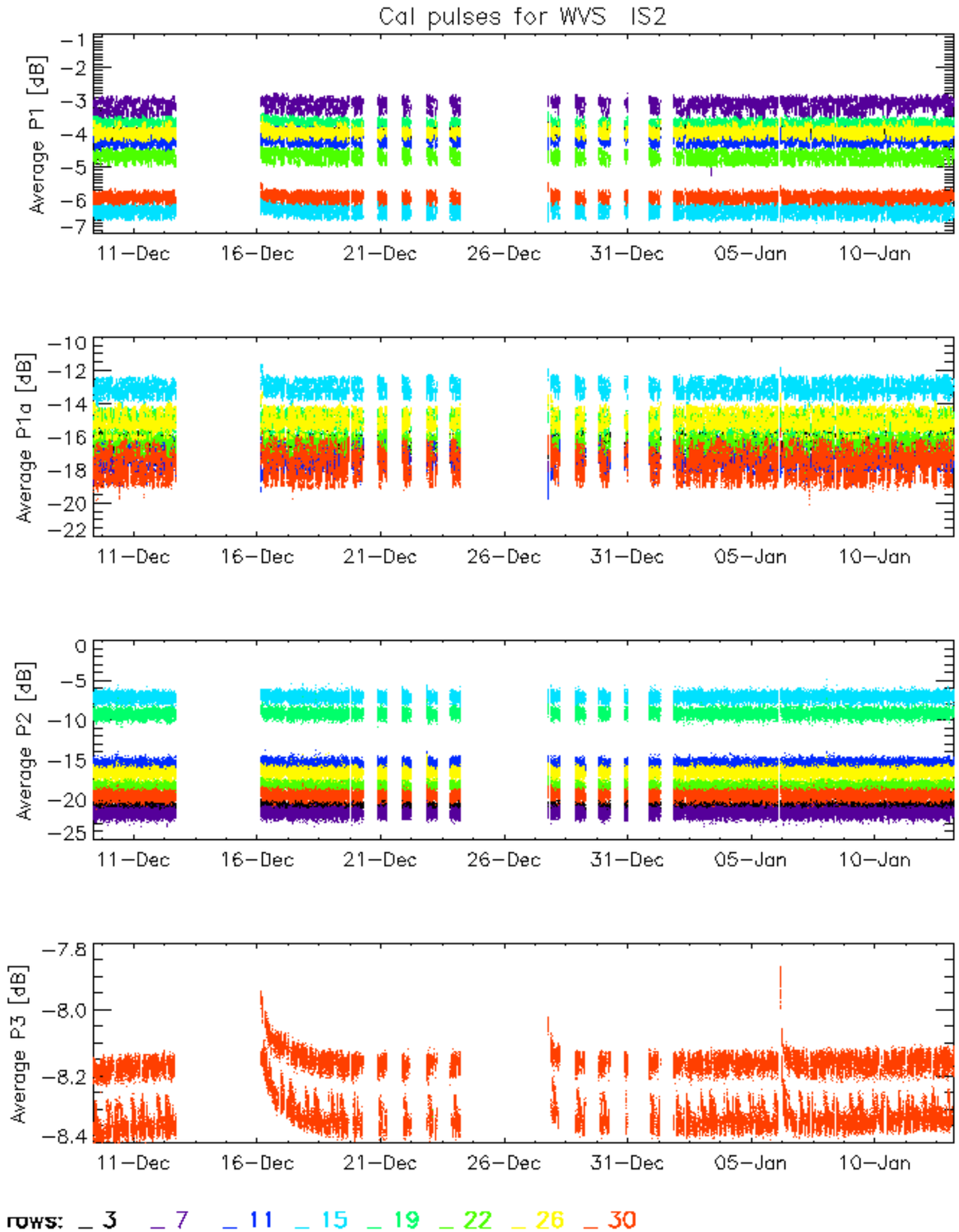
Evolution Doppler error versus ANX

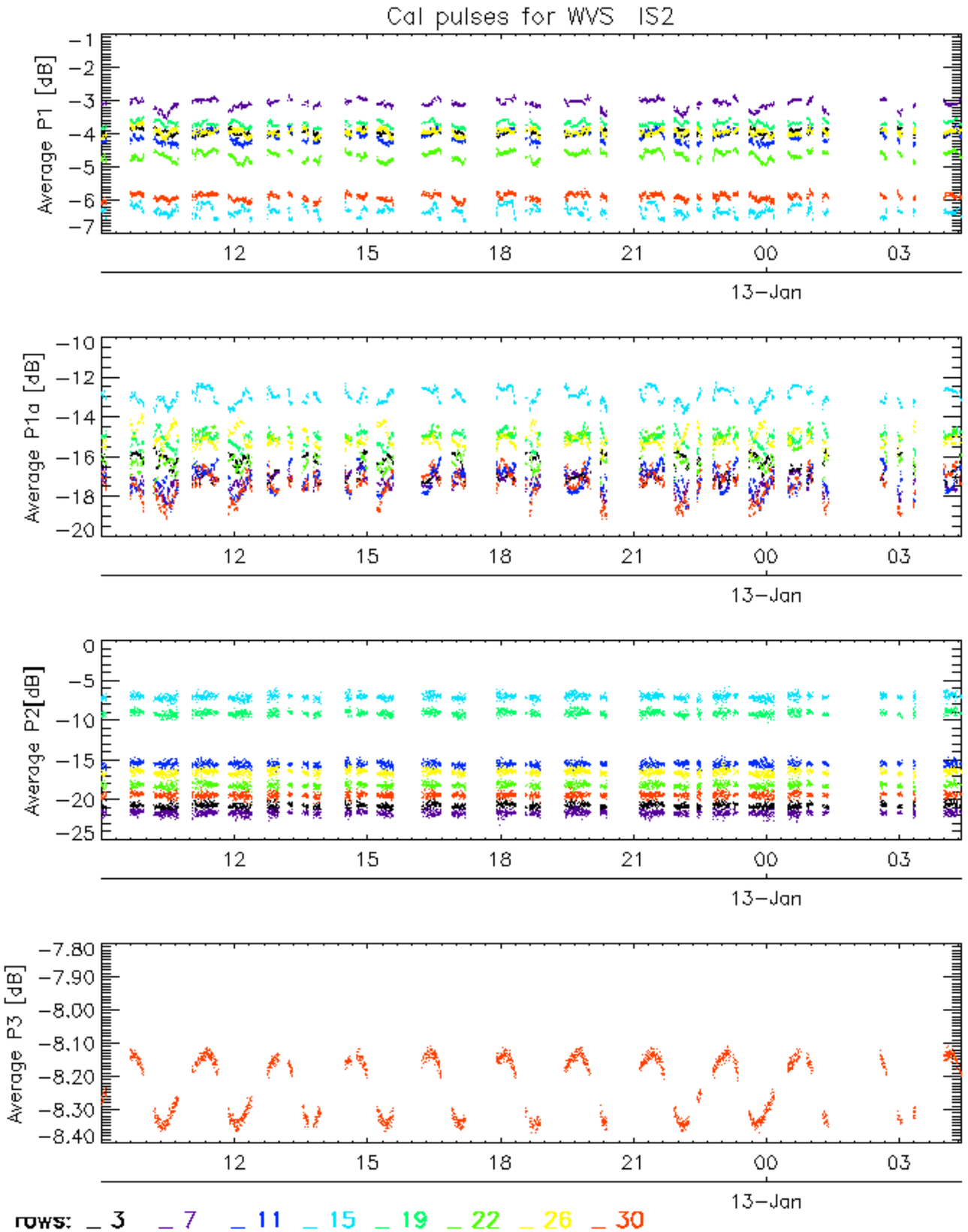


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
12
15
18
21
00
03
13−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
12
15
18
21
00
03
13−Jan
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
12
15
18
21
00
03
13−Jan
Phase P1a [deg]
200
100
0
−100
−200
12
15
18
21
00
03
13−Jan
rows: _ 3 _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


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

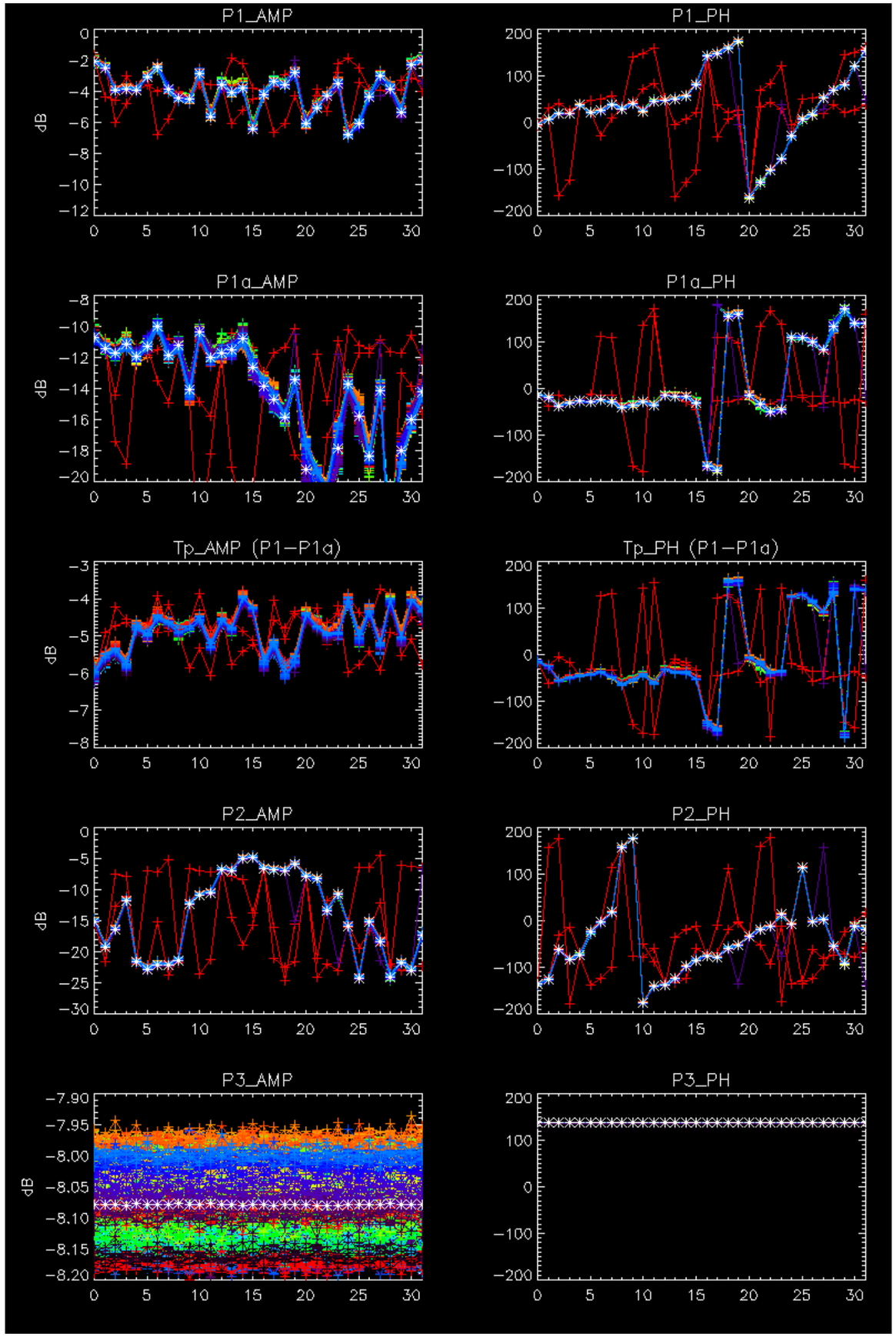

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
11−Dec
16−Dec
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

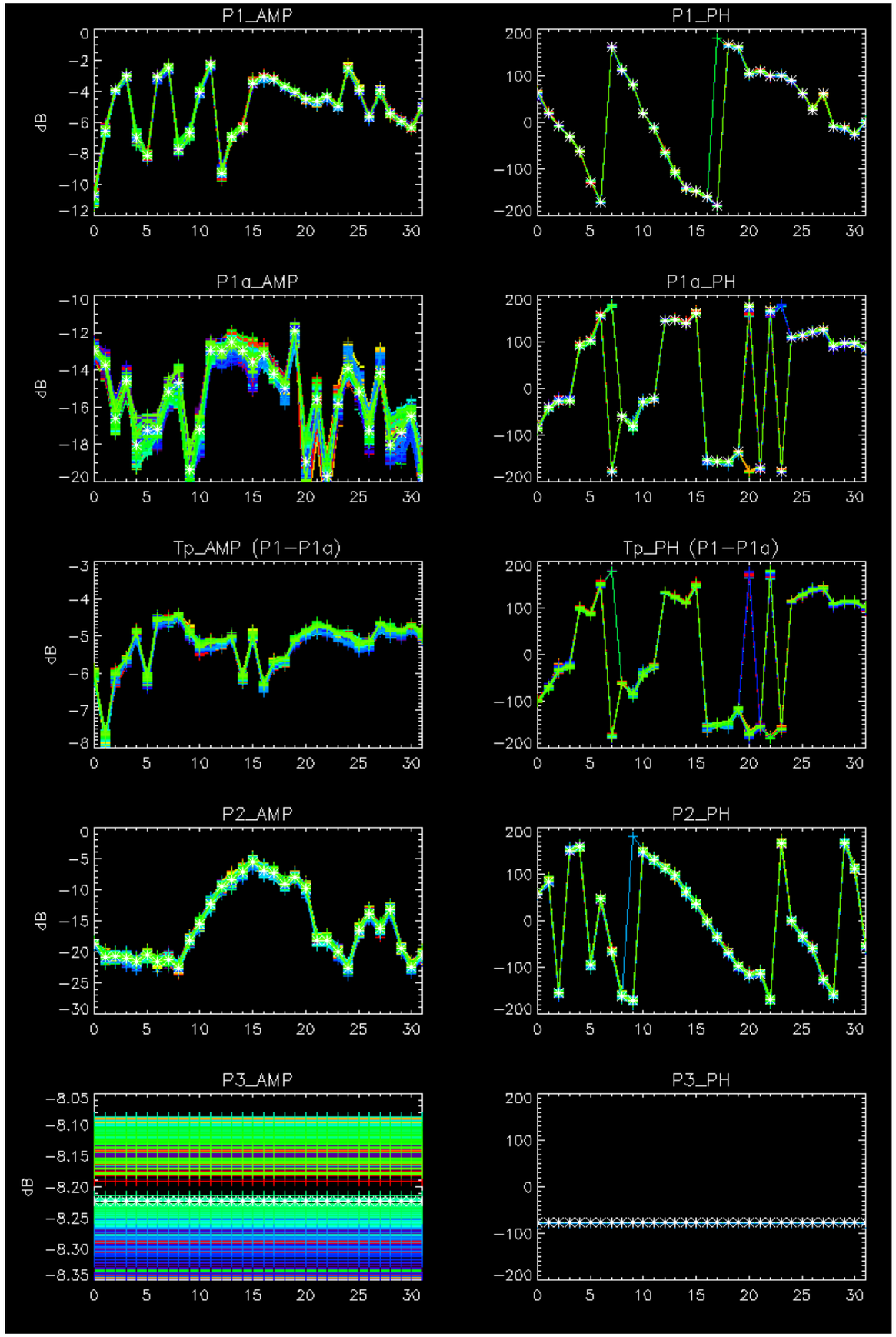

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
12
15
18
21
00
03
13−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
12
15
18
21
00
03
13−Jan
Average P2[dB]
0
−5
−10
−15
−20
−25
12
15
18
21
00
03
13−Jan
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
12
15
18
21
00
03
13−Jan
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
11−Dec
16−Dec
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan
Average P1a [dB]
−10
−12
−14
−16
−18
−20
−22
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

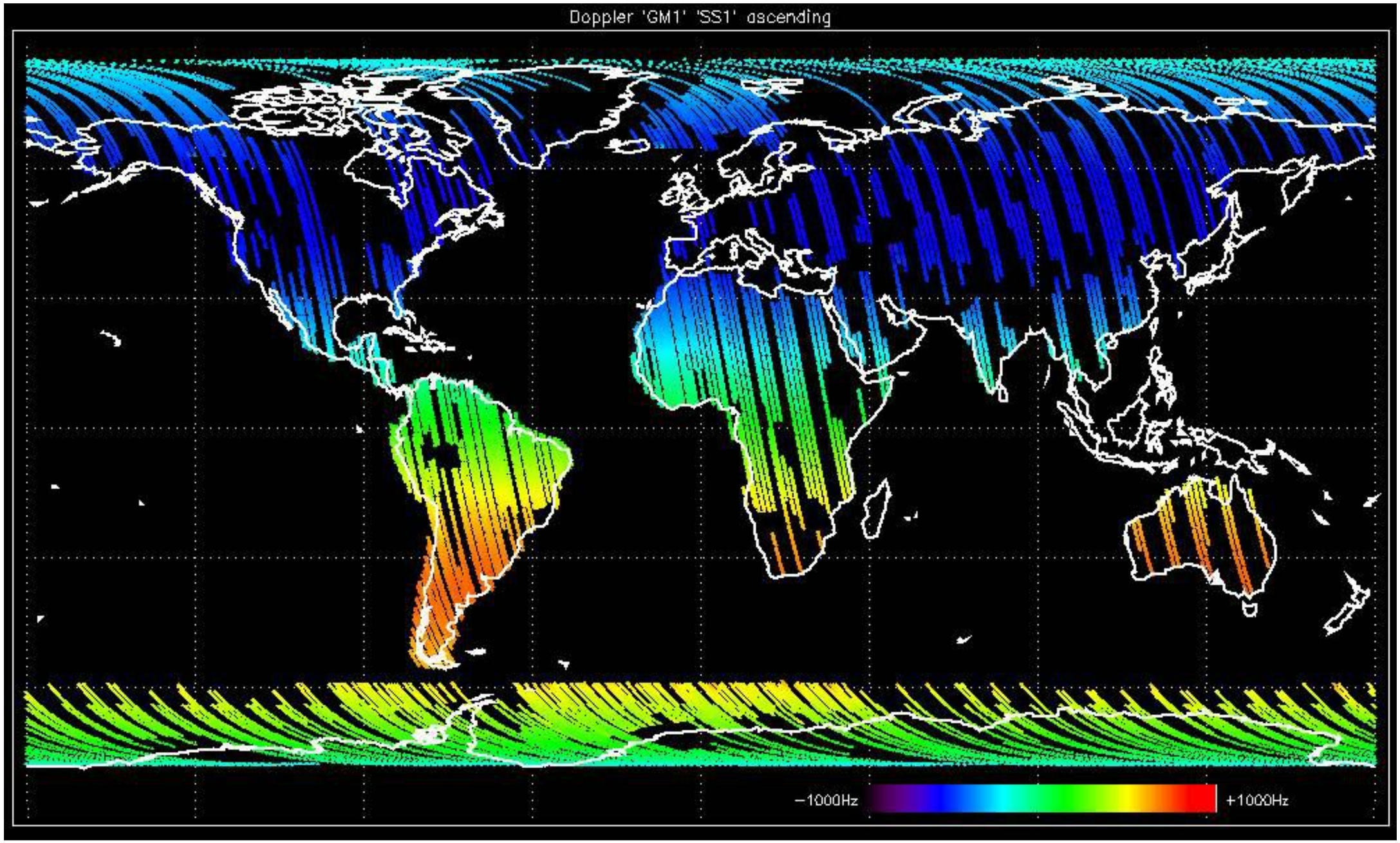
No anomalies observed.

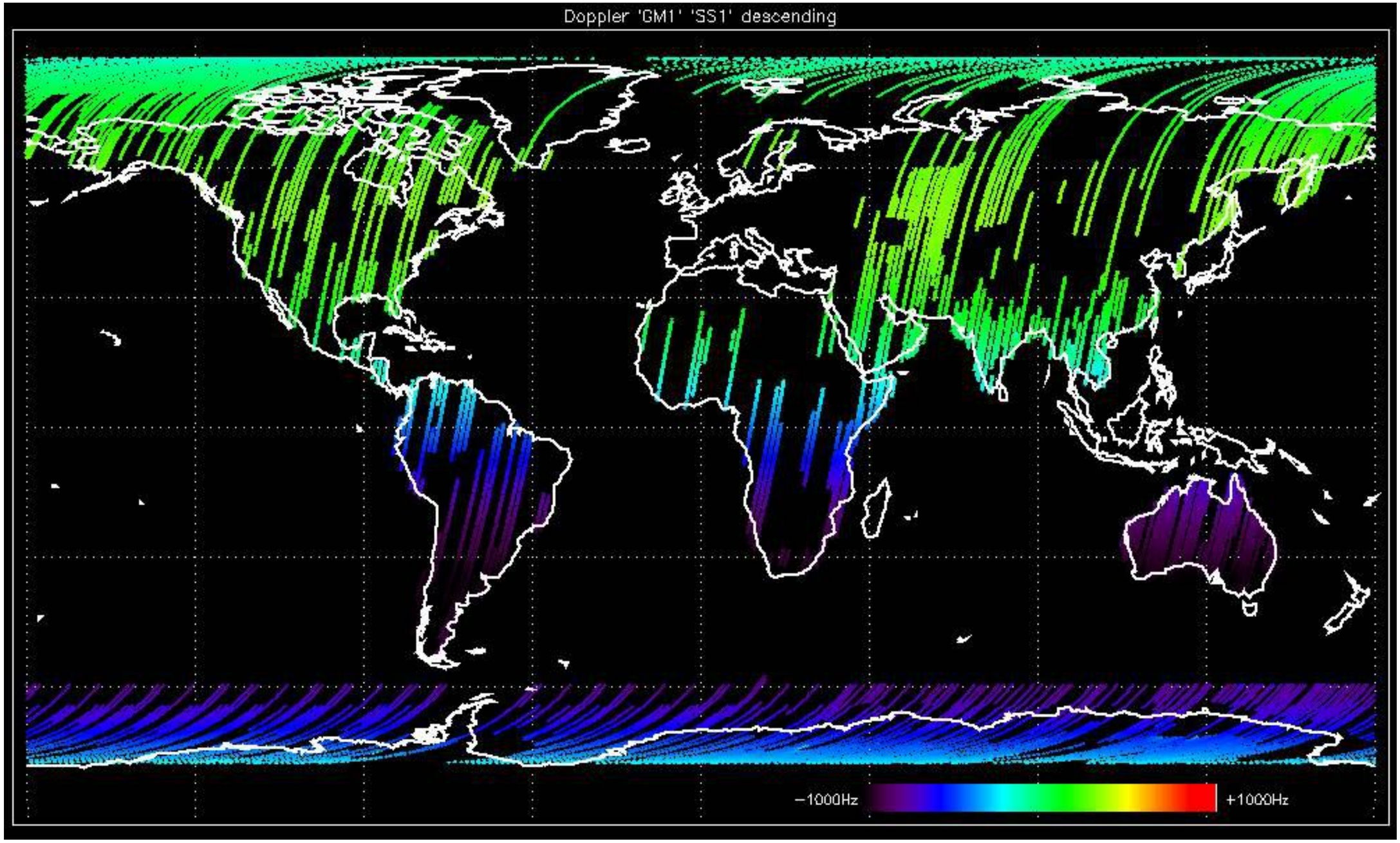

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

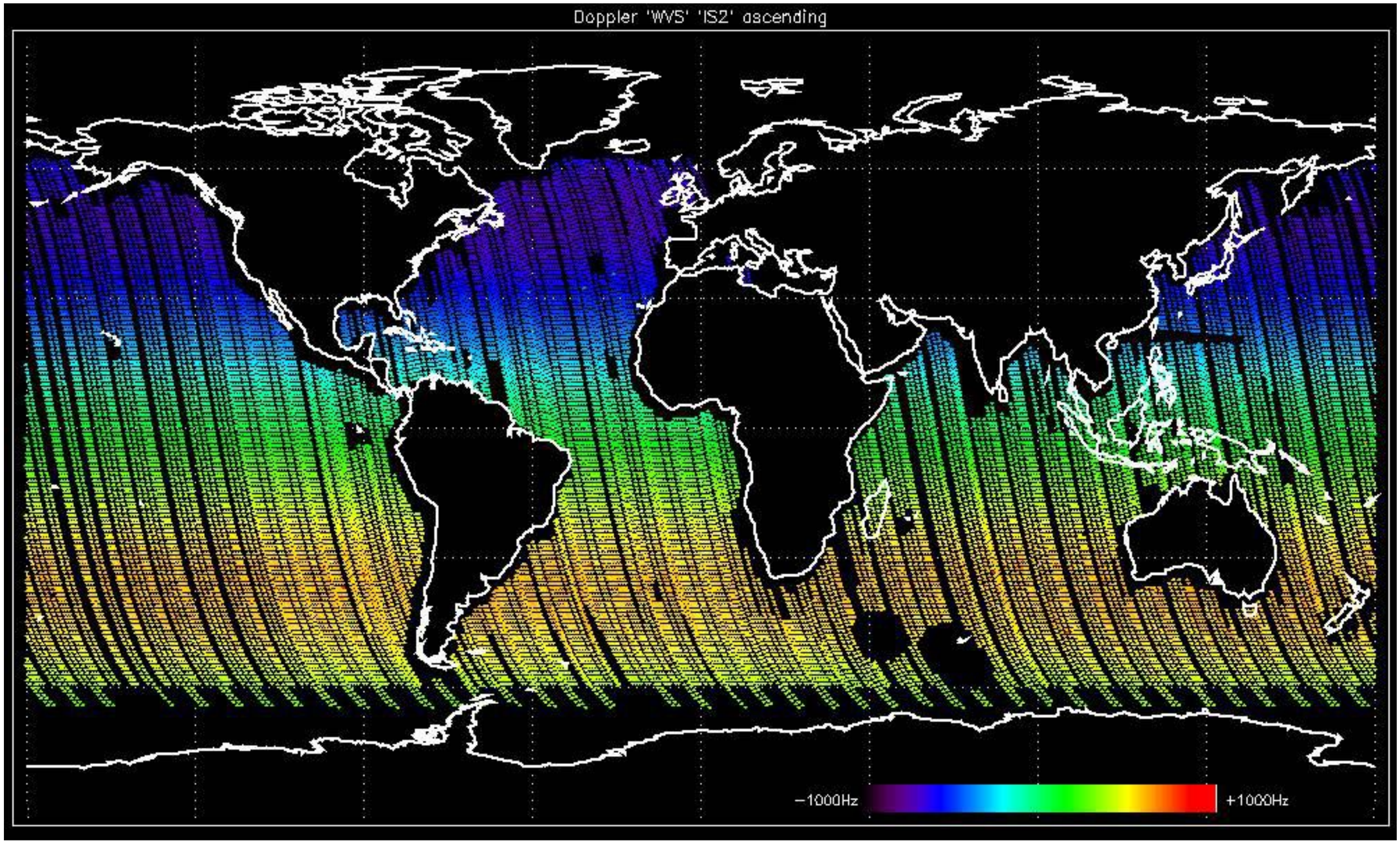

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

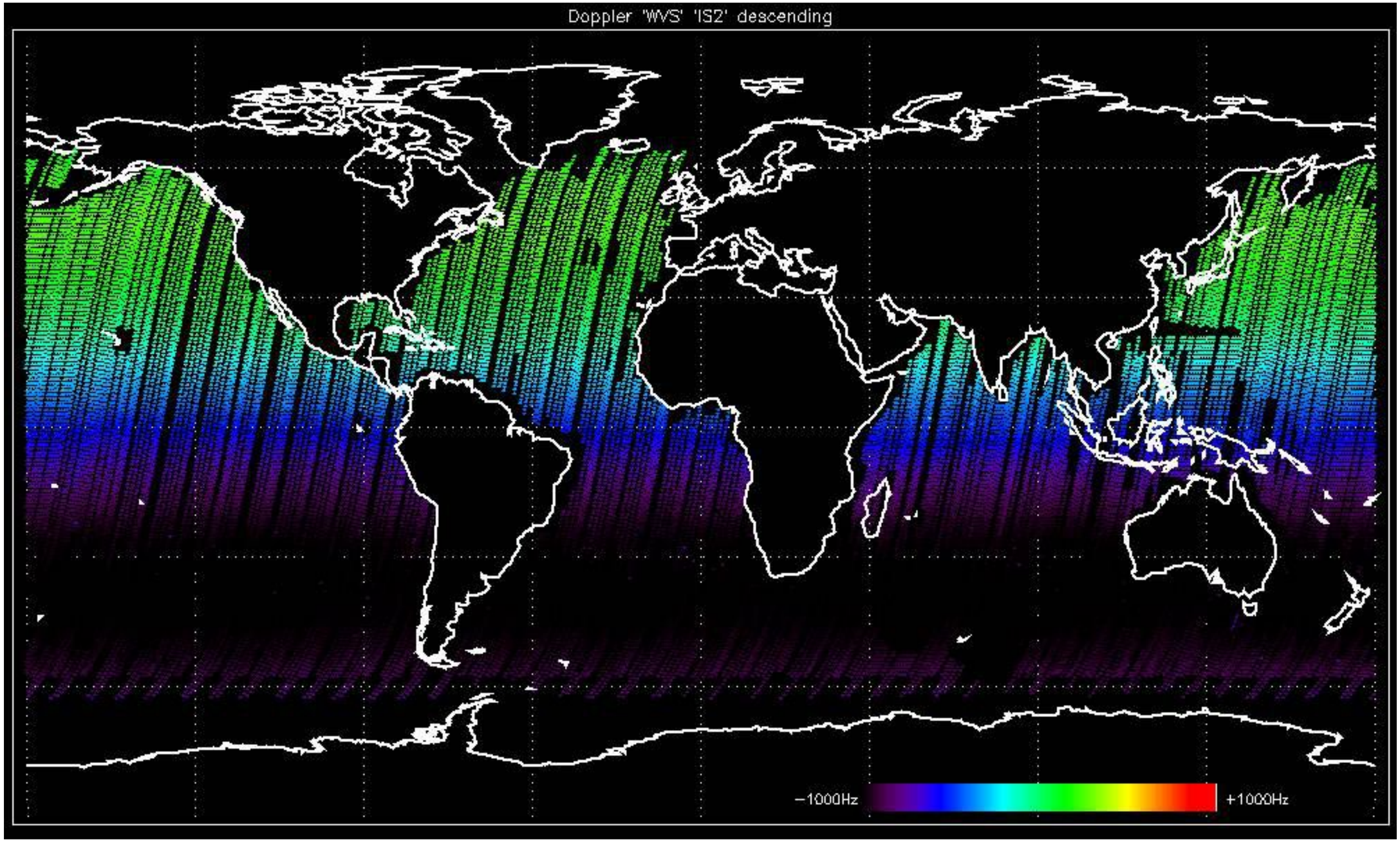
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

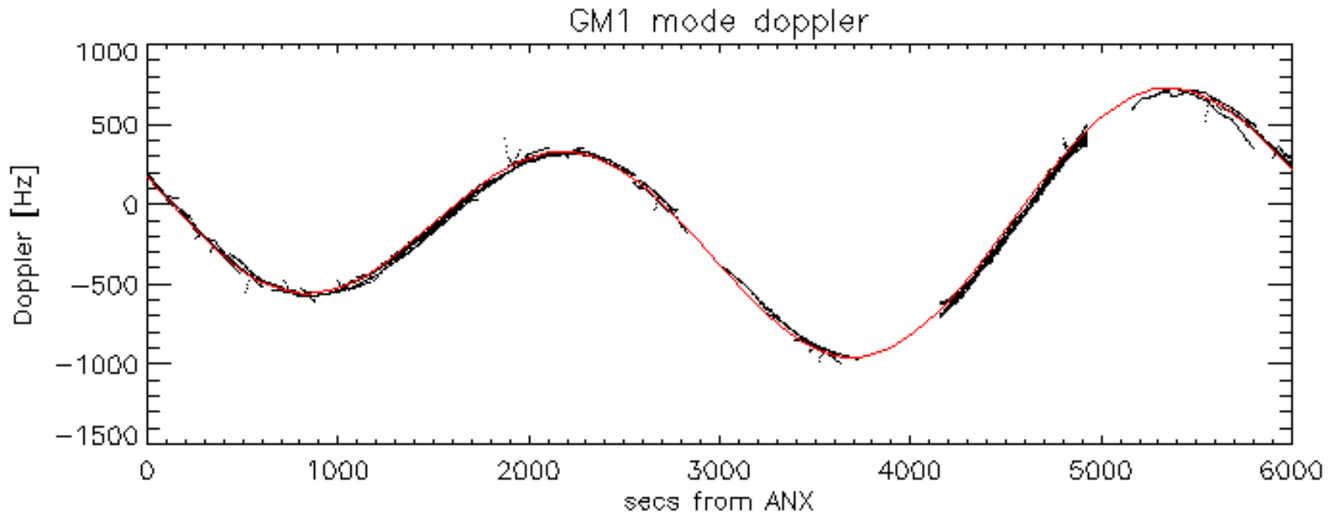
Preliminary report.The data is not yet controled

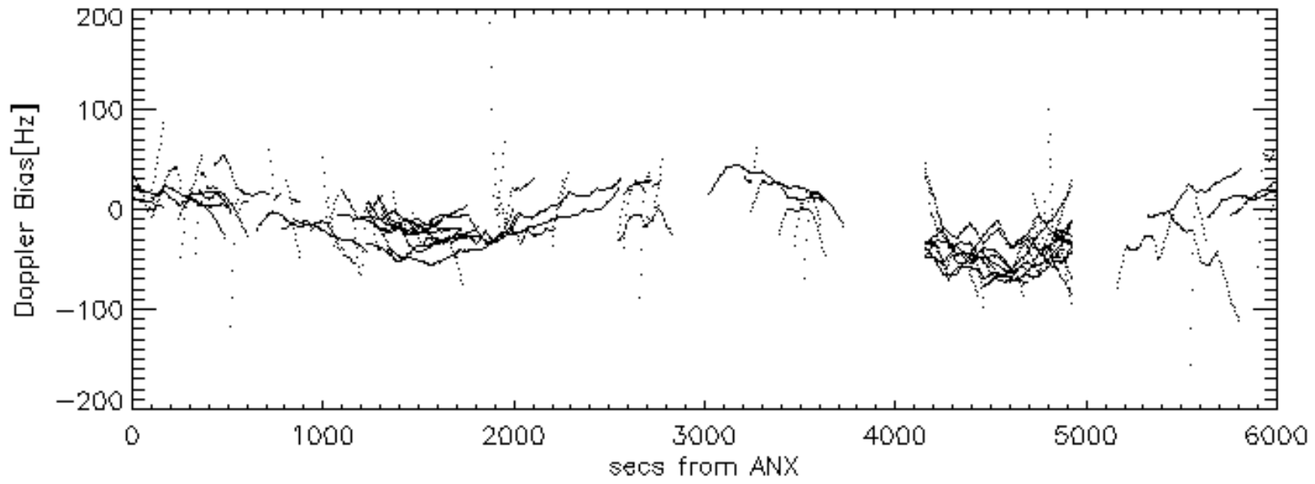

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

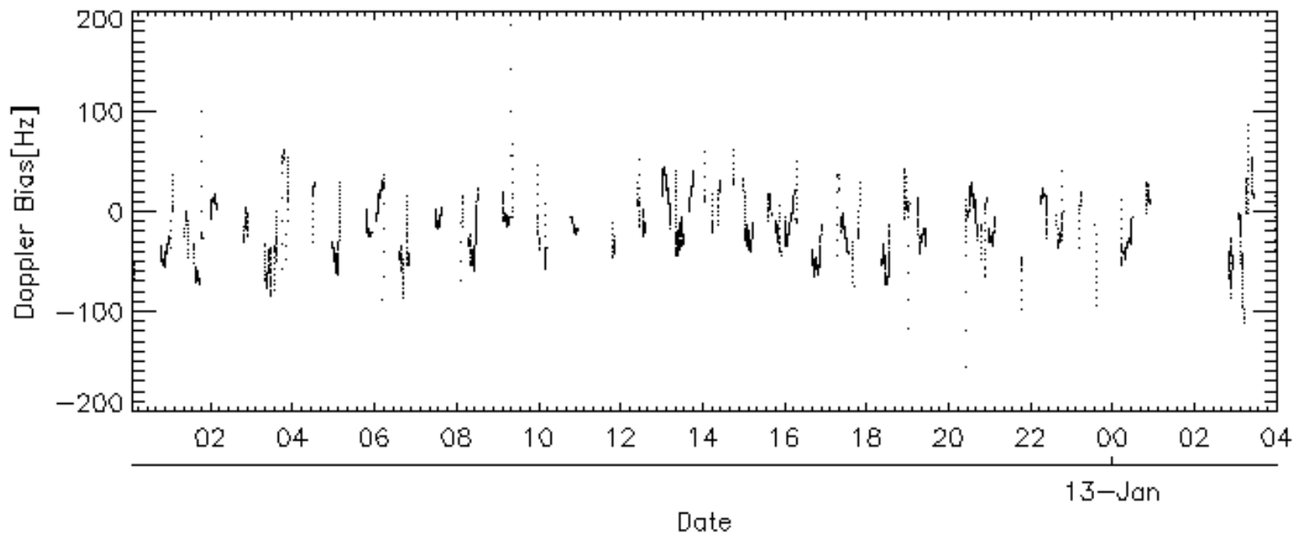

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

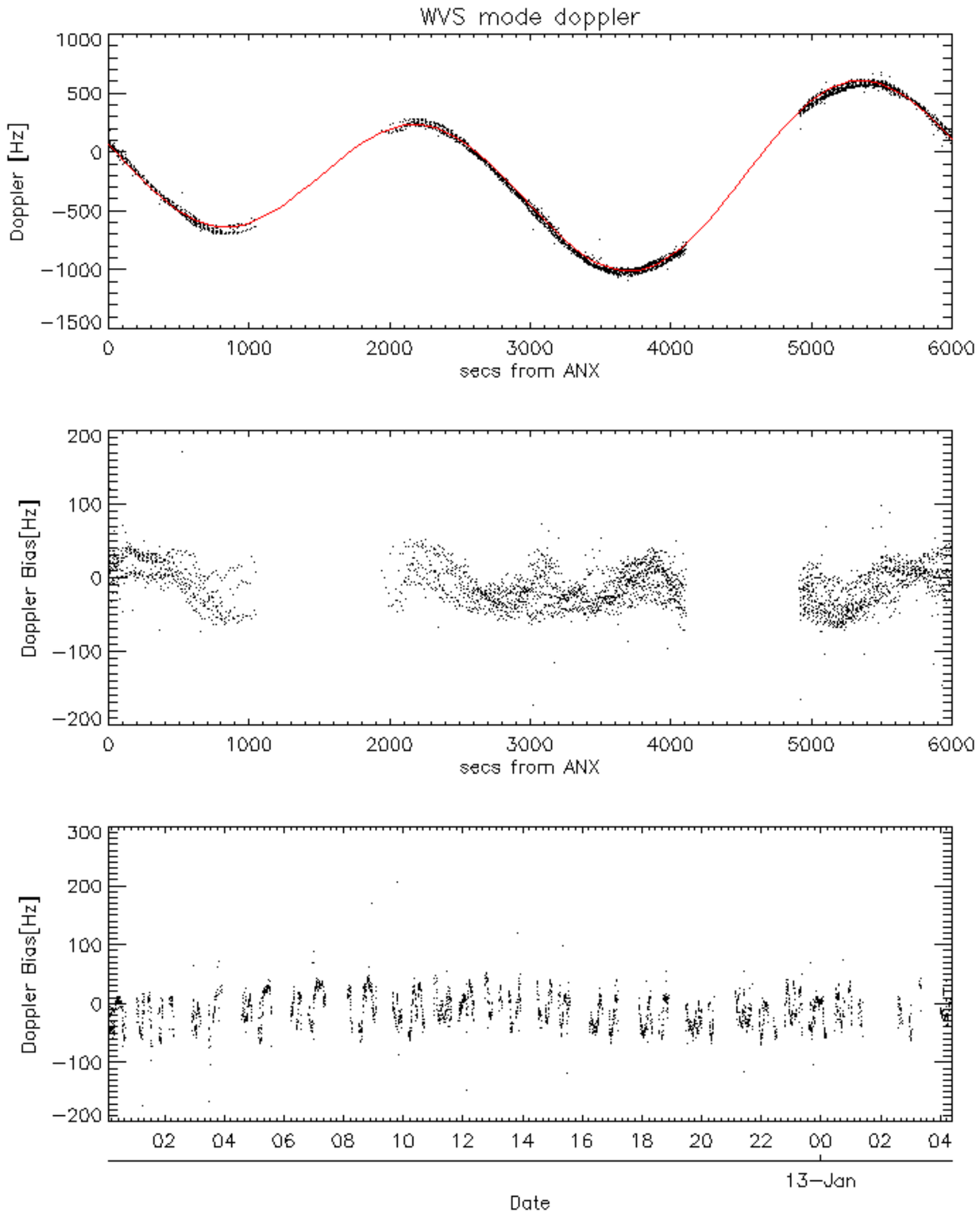

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

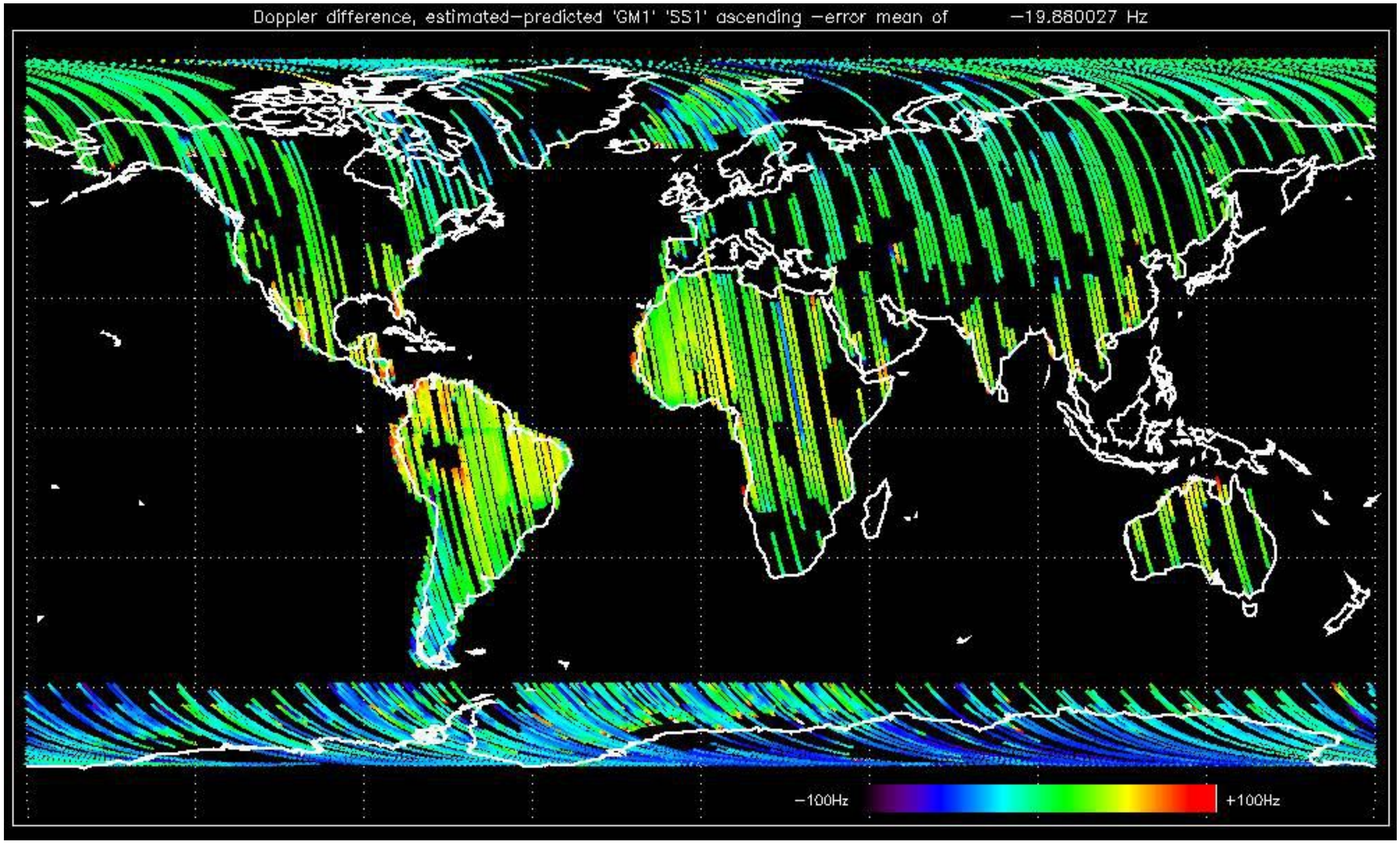

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

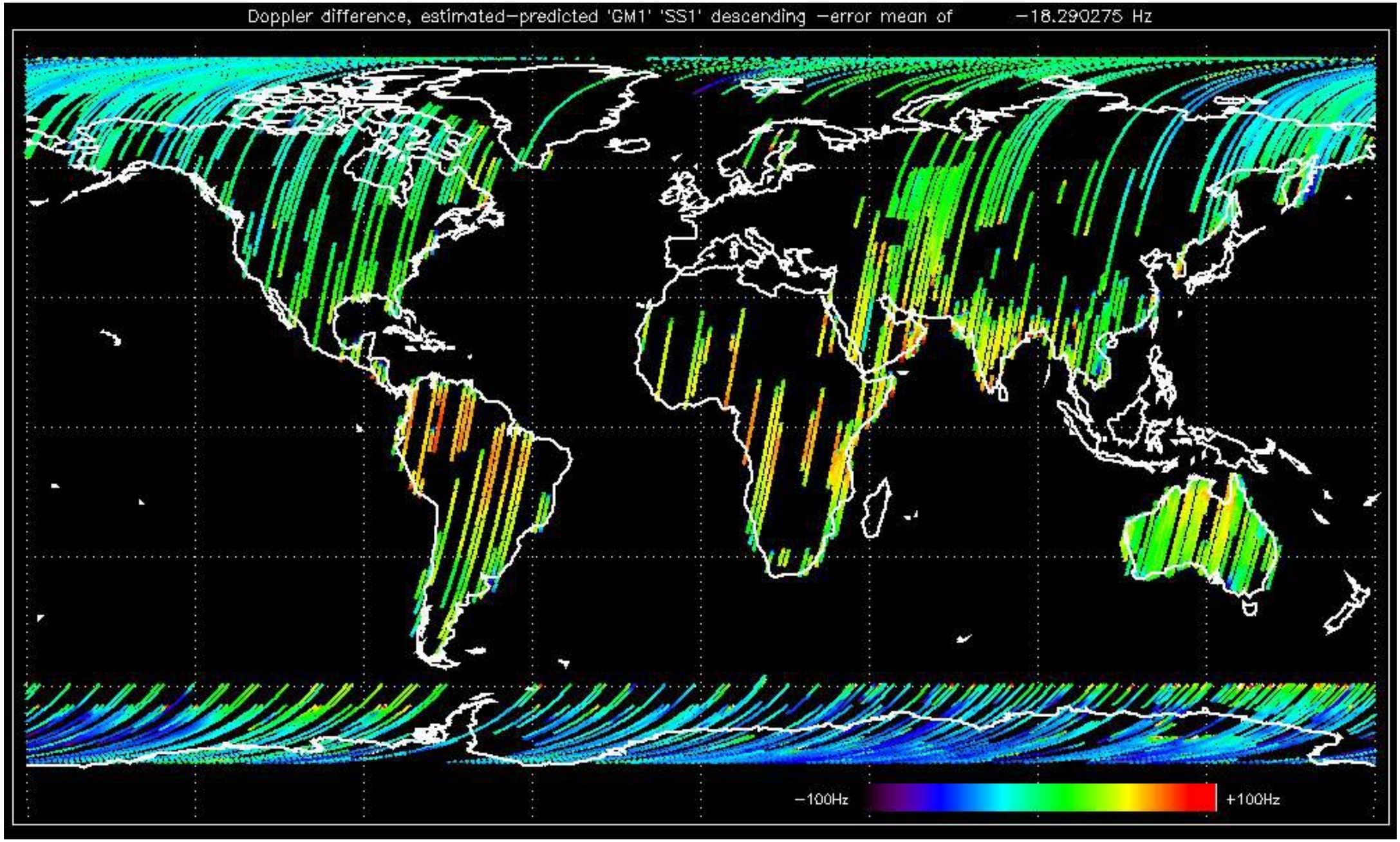

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

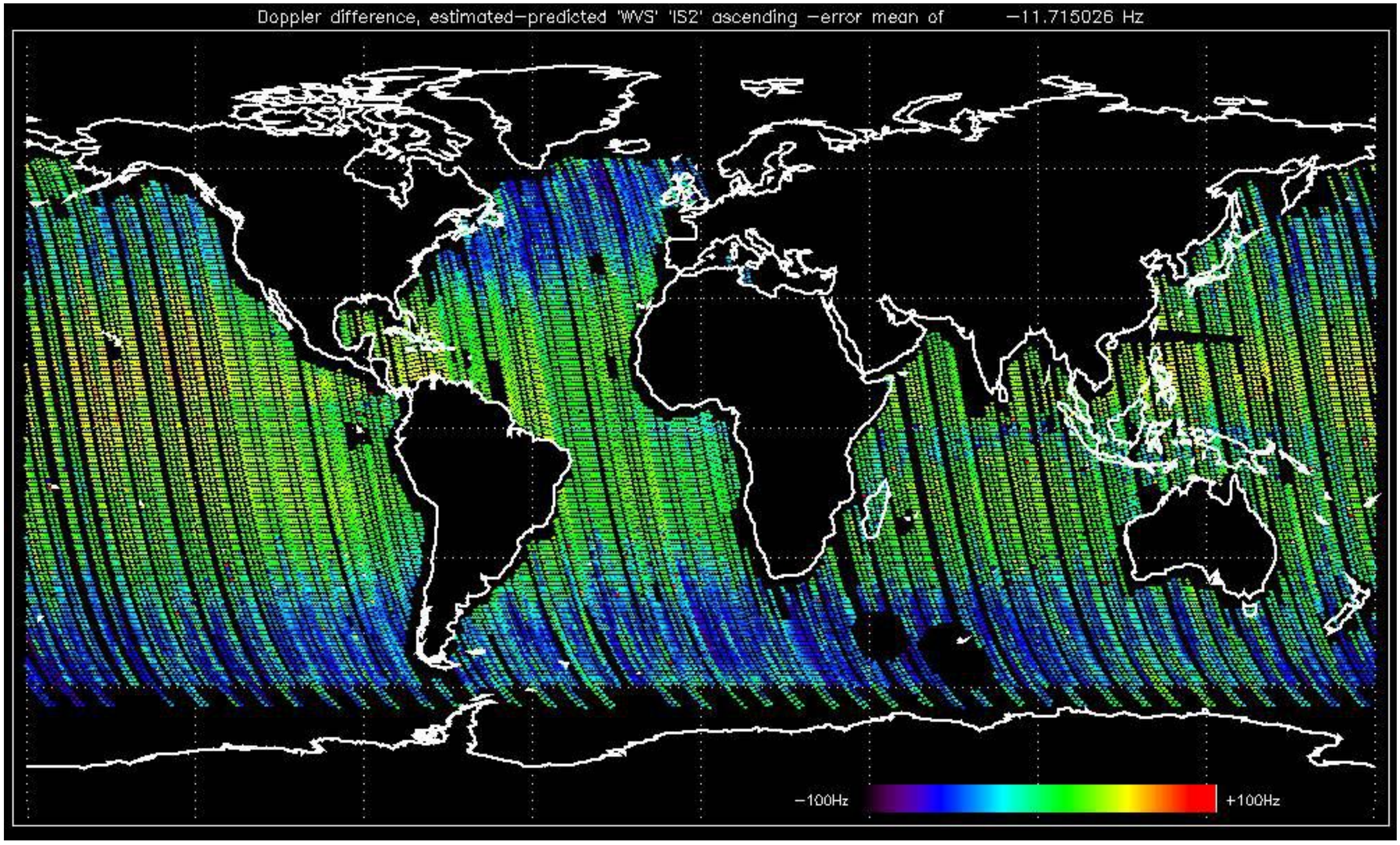

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

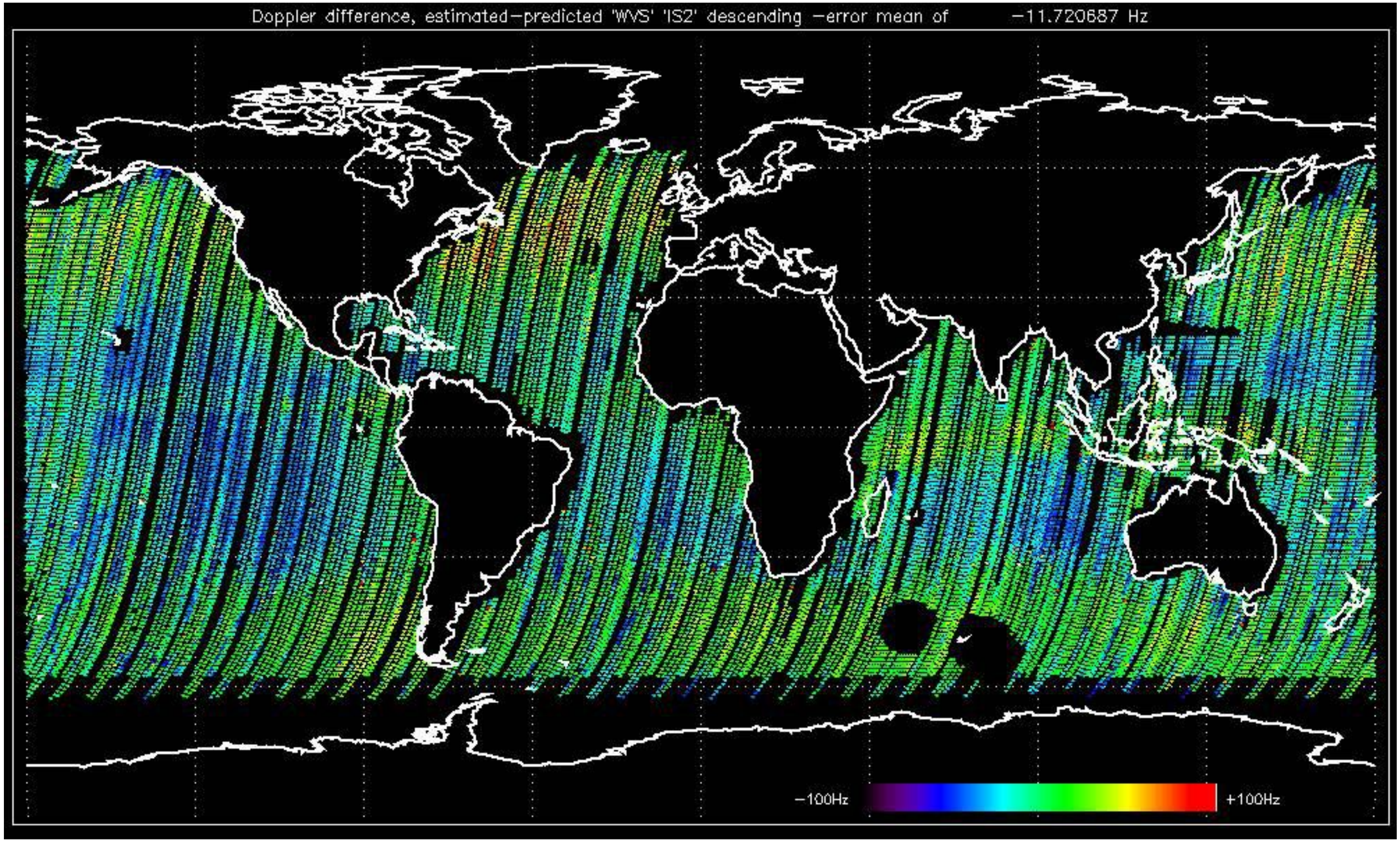

Doppler Bias[Hz]
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
13−Jan
Date


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
13−Jan
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −19.880027 Hz
−100Hz
+100Hz

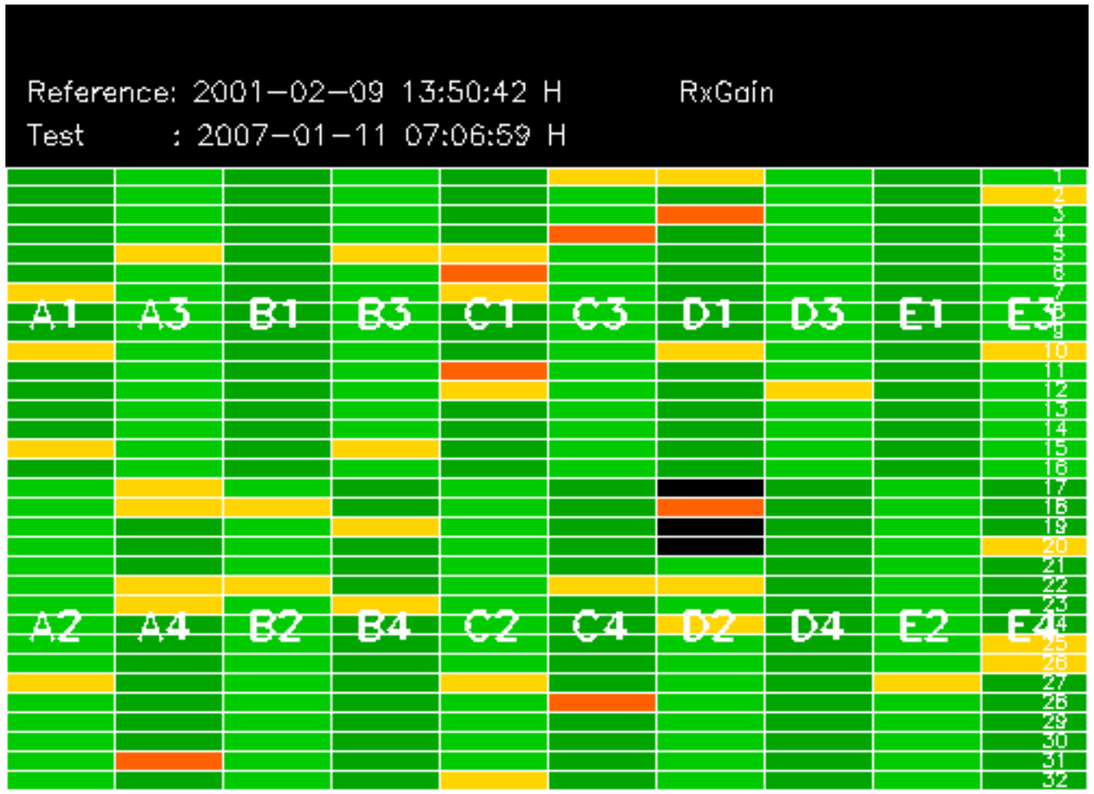

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −18.290275 Hz
−100Hz
+100Hz

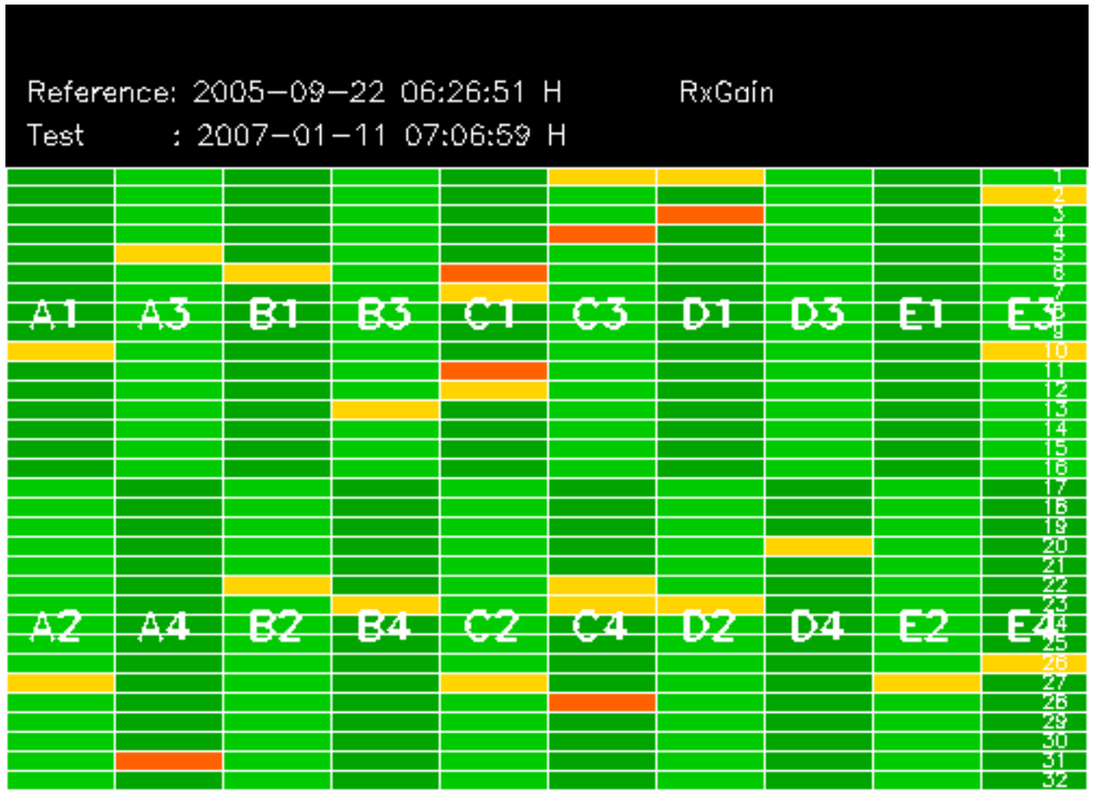

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −11.715026 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −11.720687 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2007-01-11 07:06:59 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-11 07:06:59 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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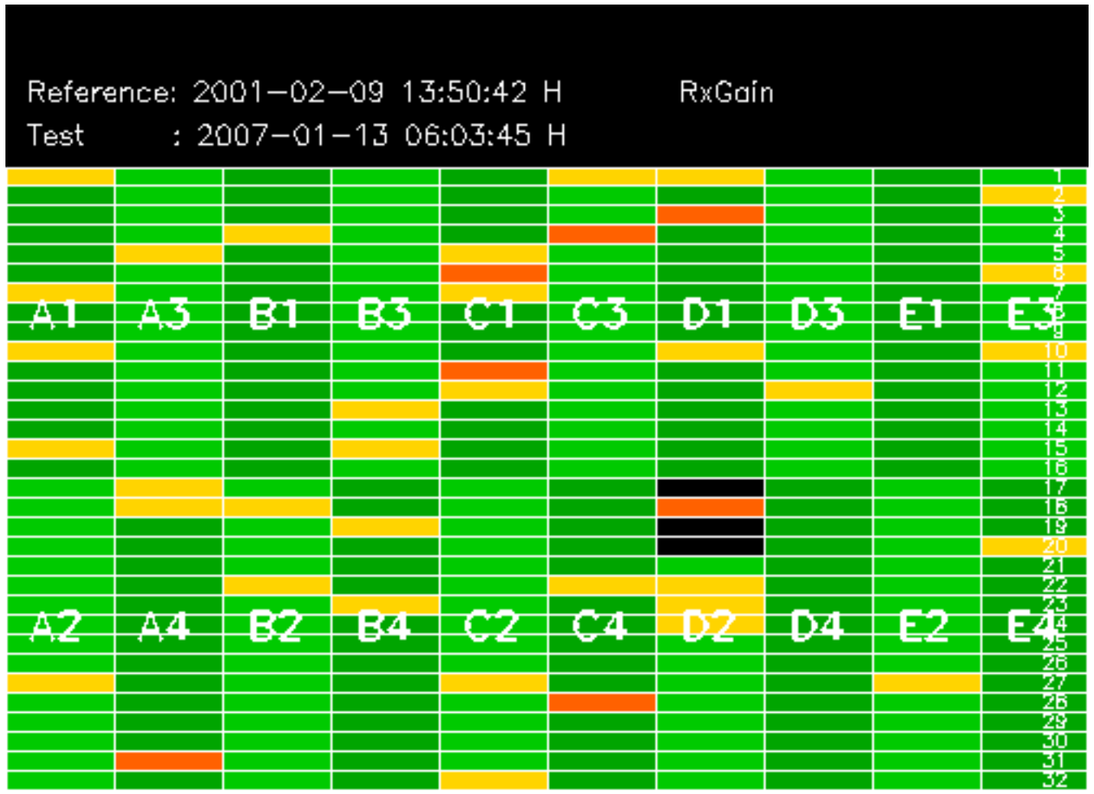
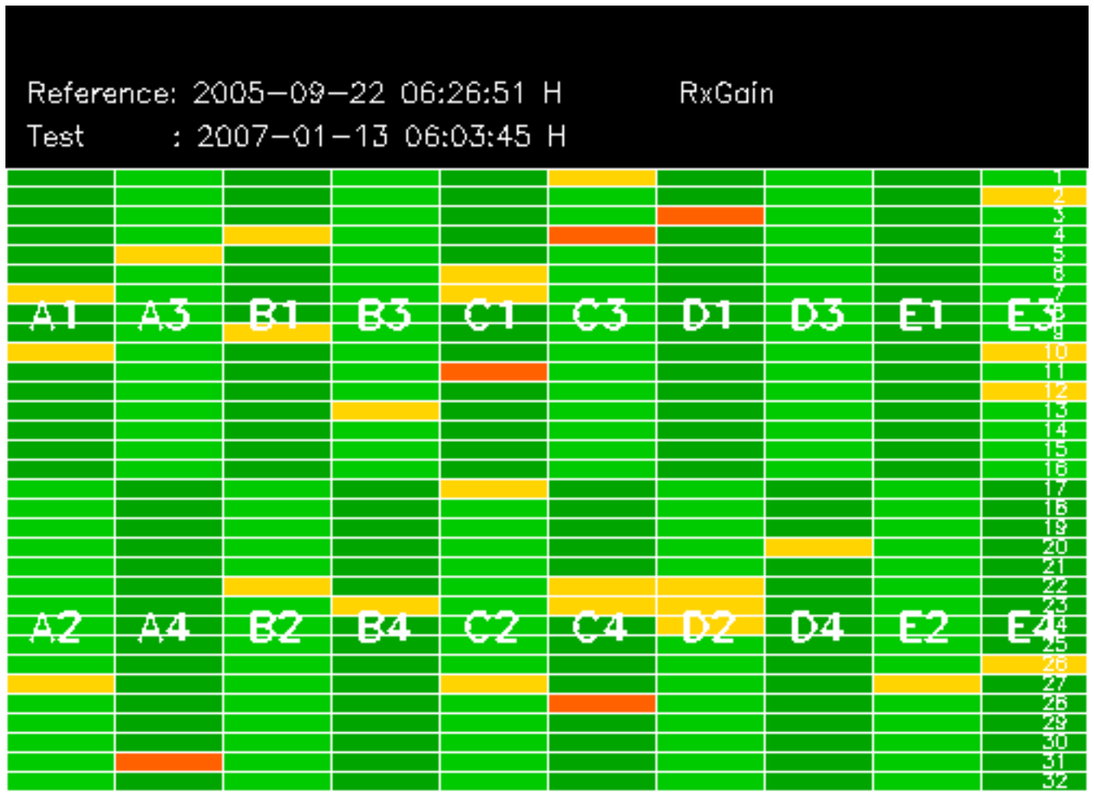

Reference: 2001-02-09 13:50:42 H
Test : 2007-01-13 06:03:45 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-13 06:03:45 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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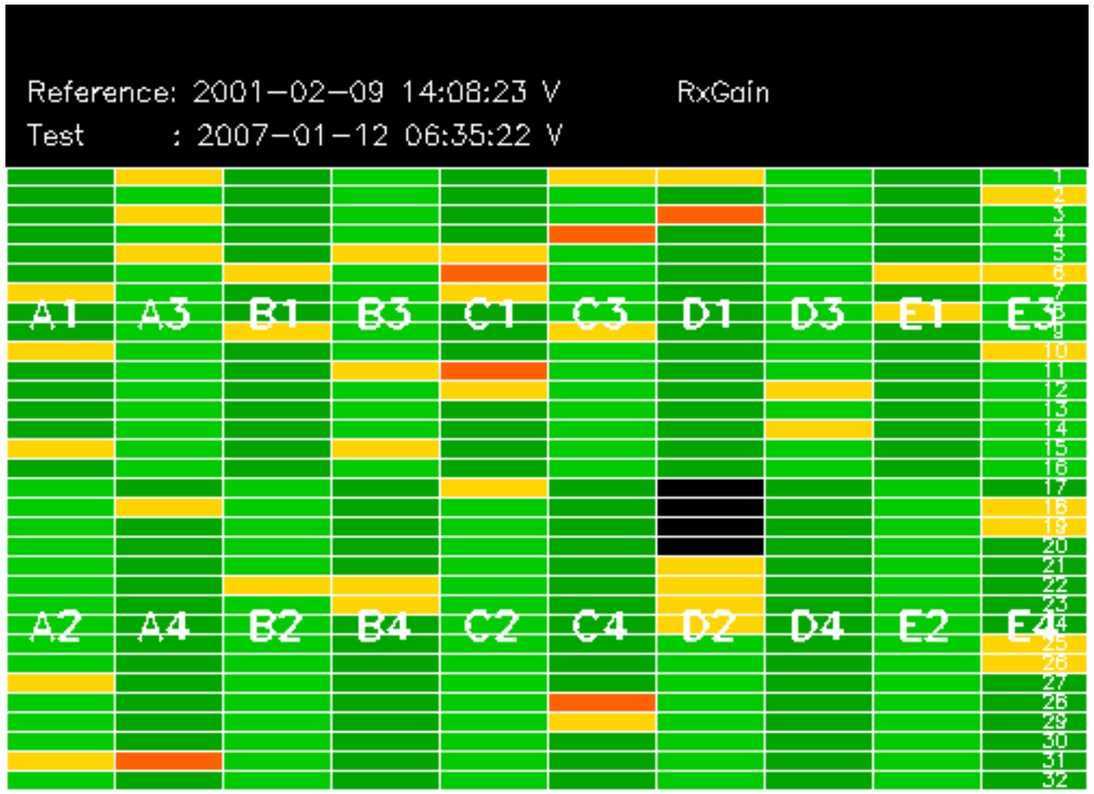
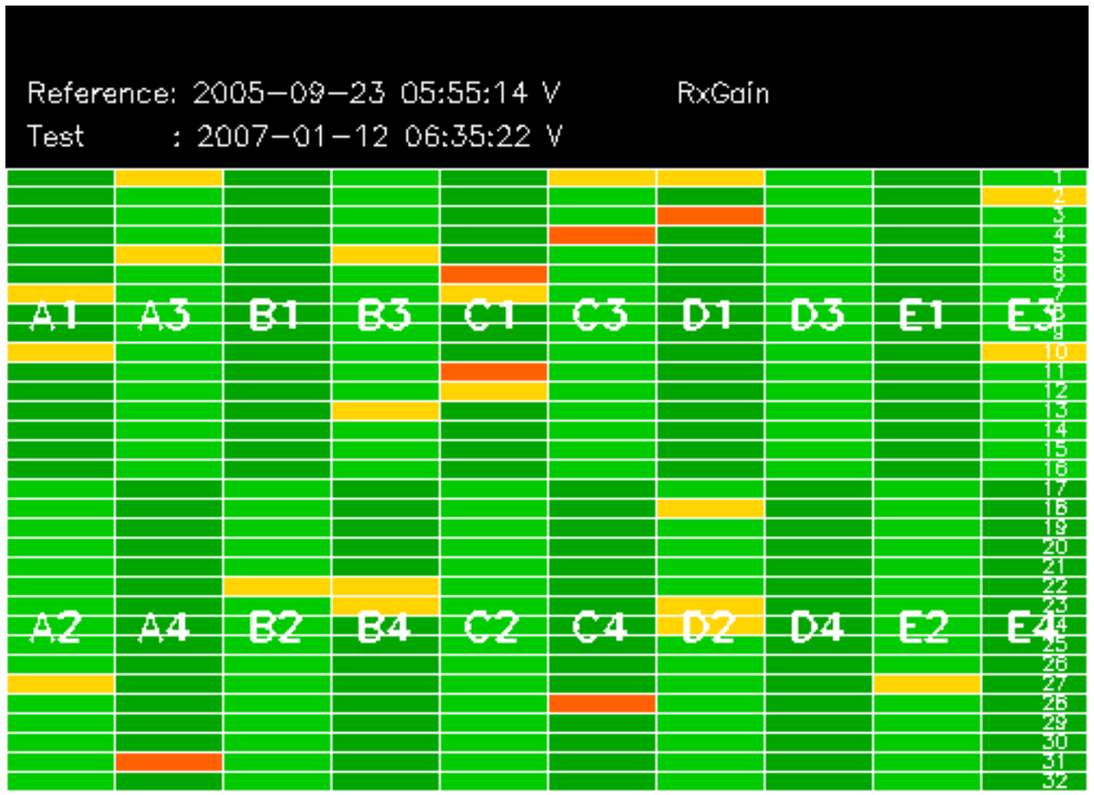

Reference: 2001-02-09 14:08:23 V
Test : 2007-01-12 06:35:22 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-01-12 06:35:22 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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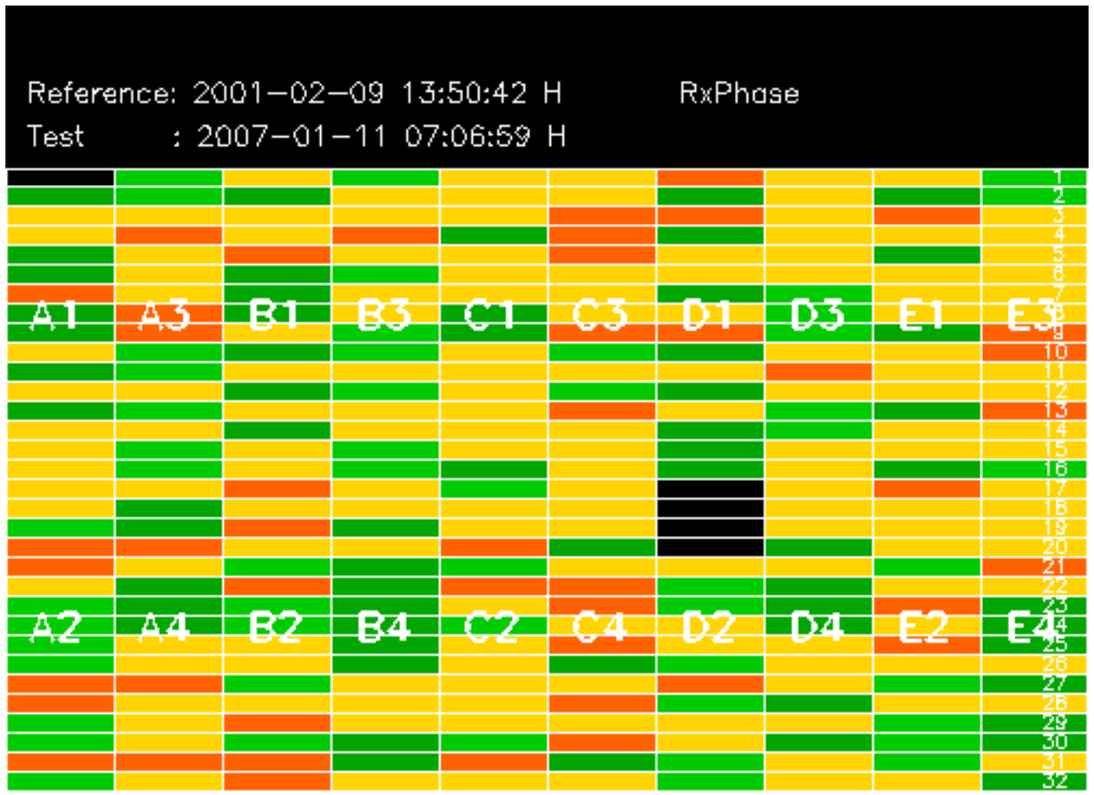
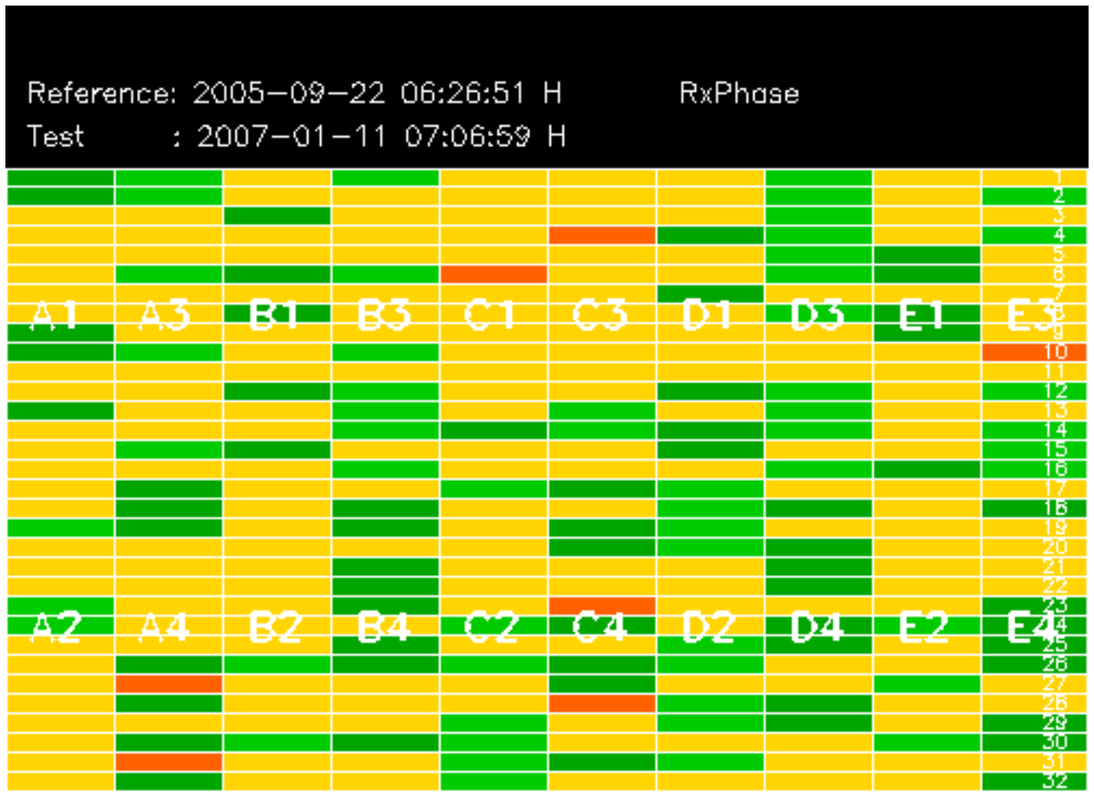
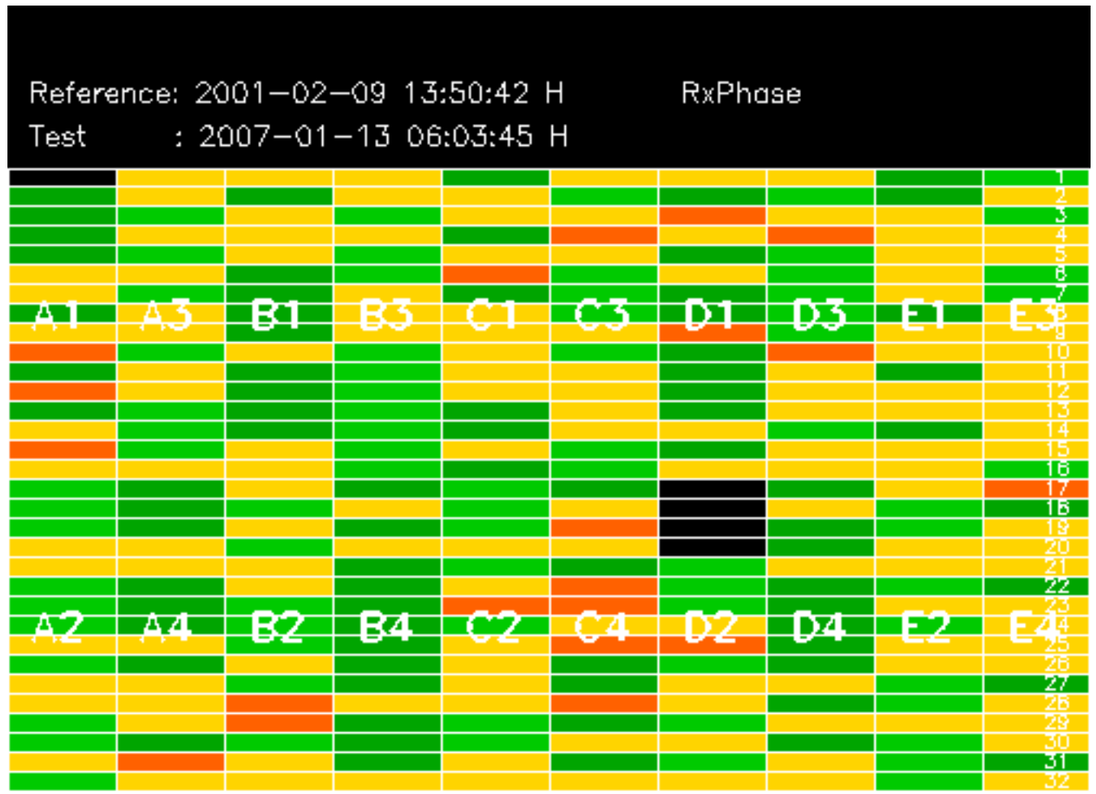
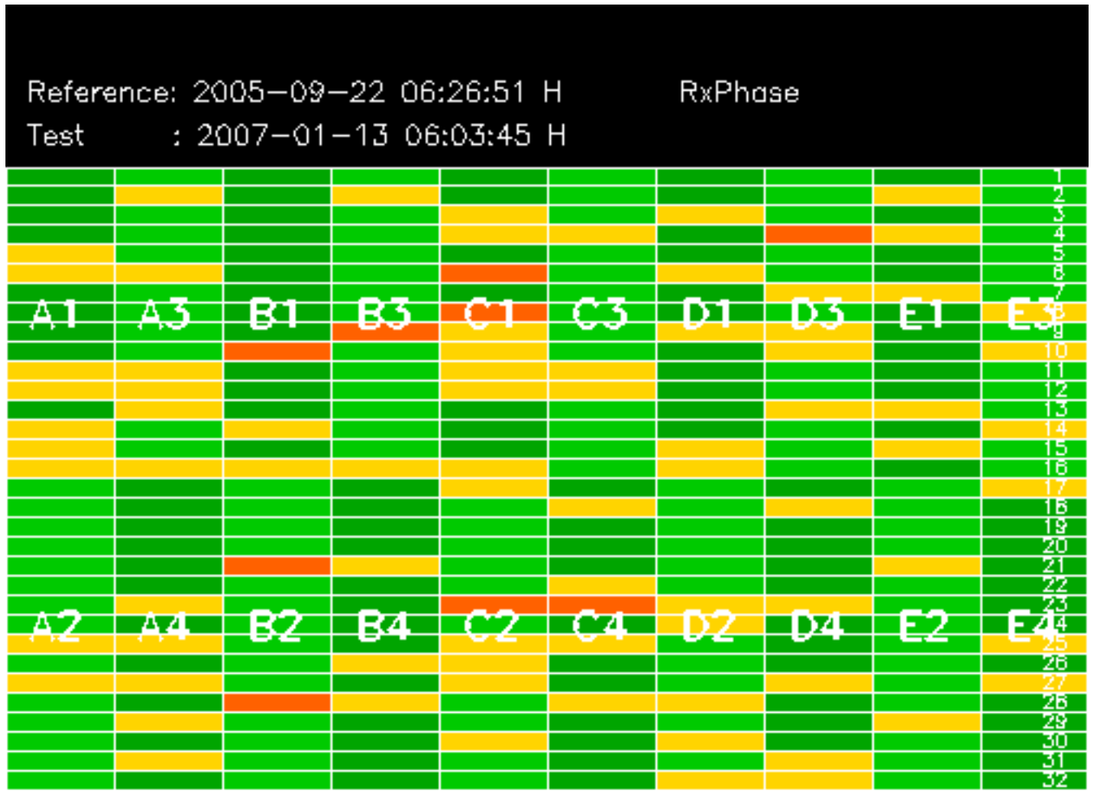
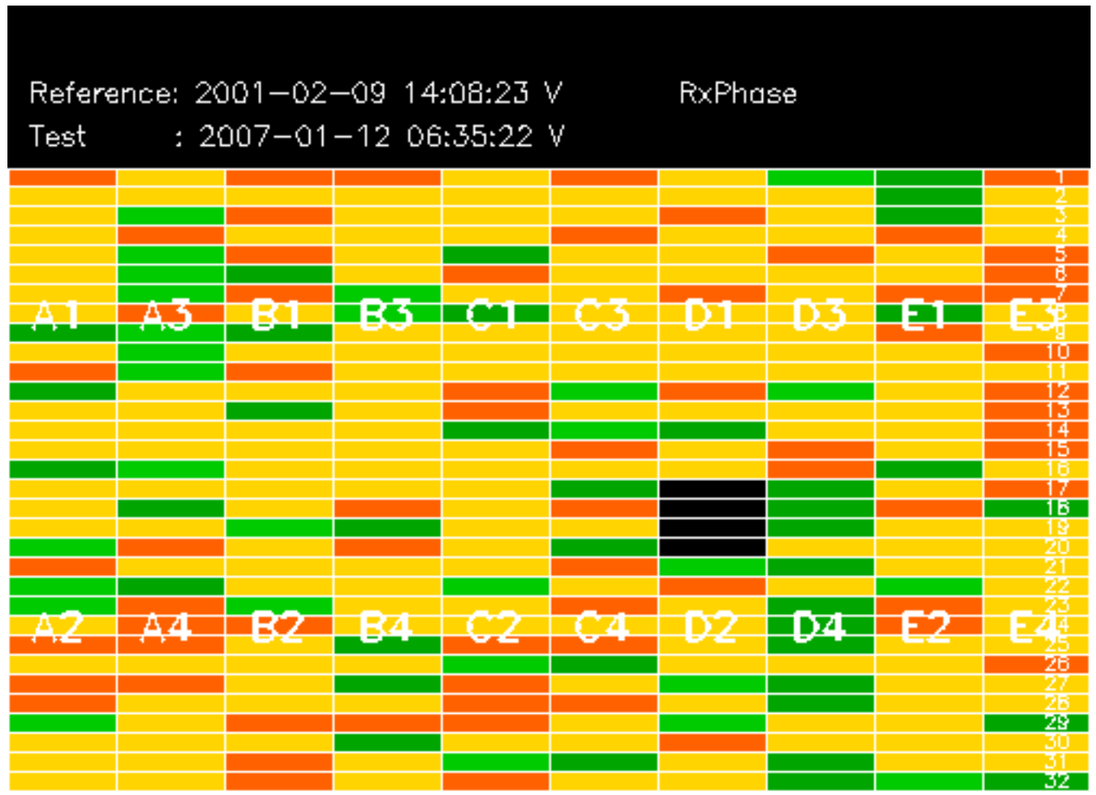

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2007-01-11 07:06:59 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-11 07:06:59 H
RxPhase
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 : 2007-01-13 06:03:45 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
RxPhase
Test : 2007-01-13 06:03:45 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 : 2007-01-12 06:35:22 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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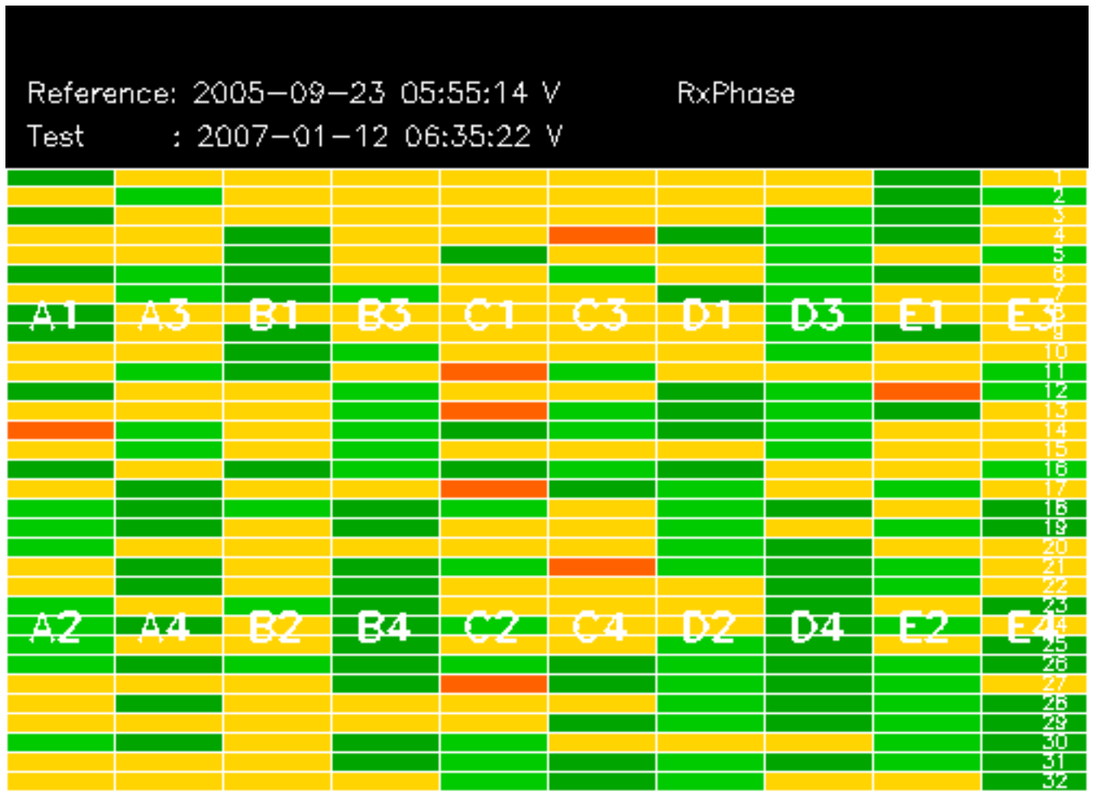
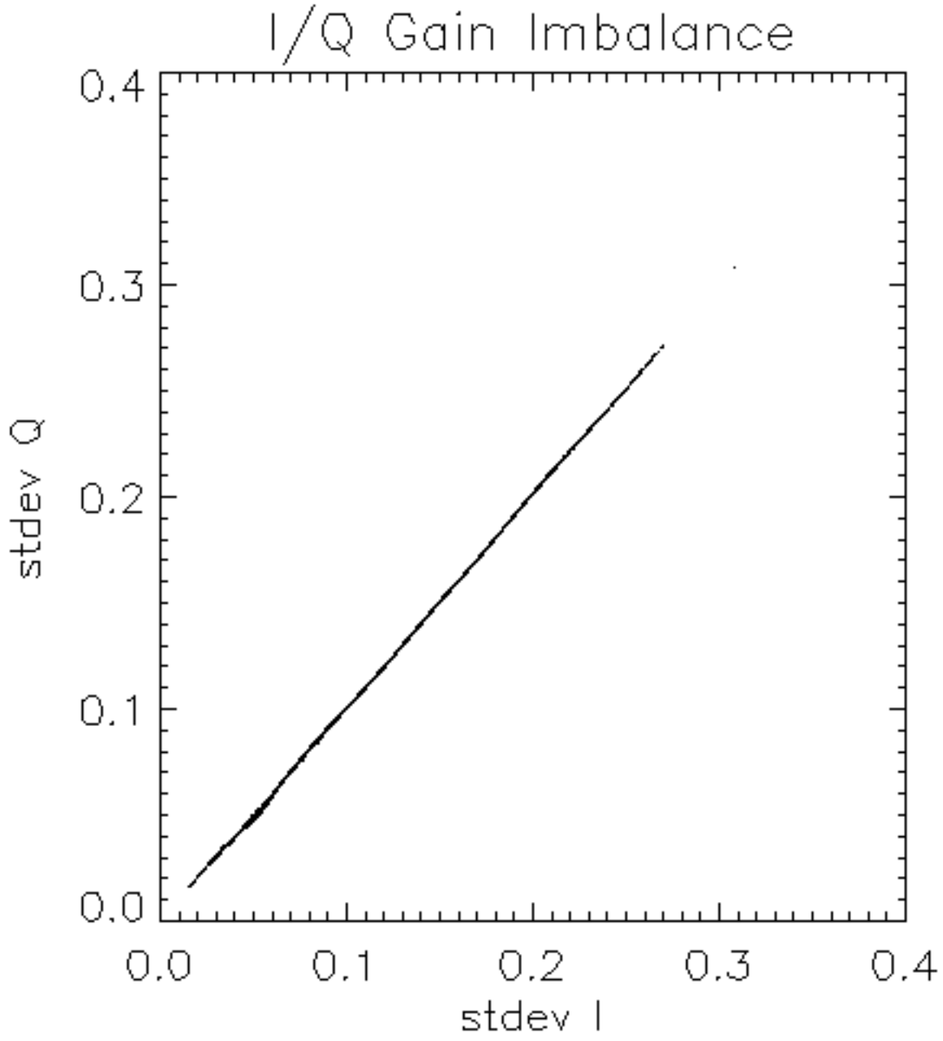
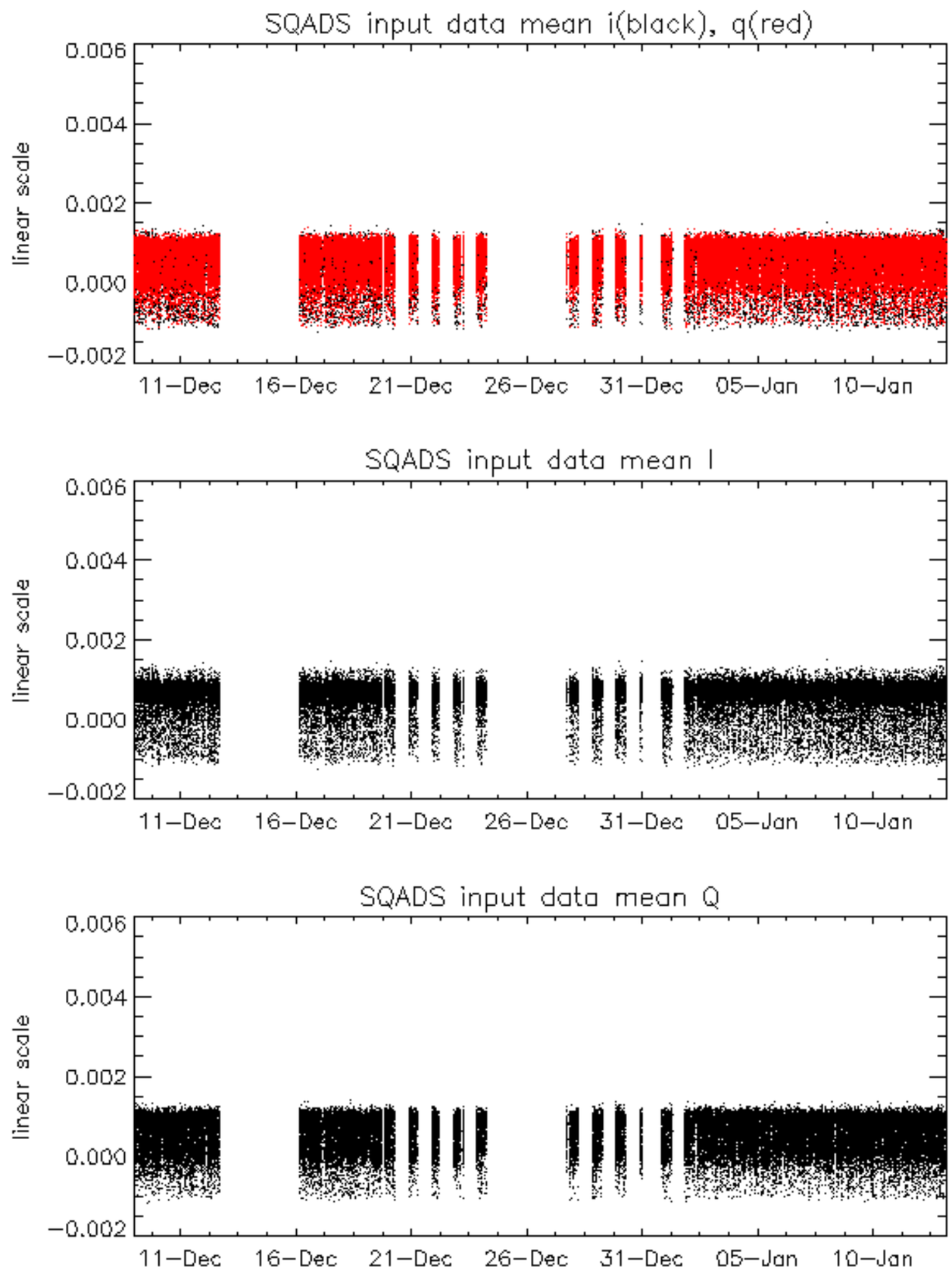
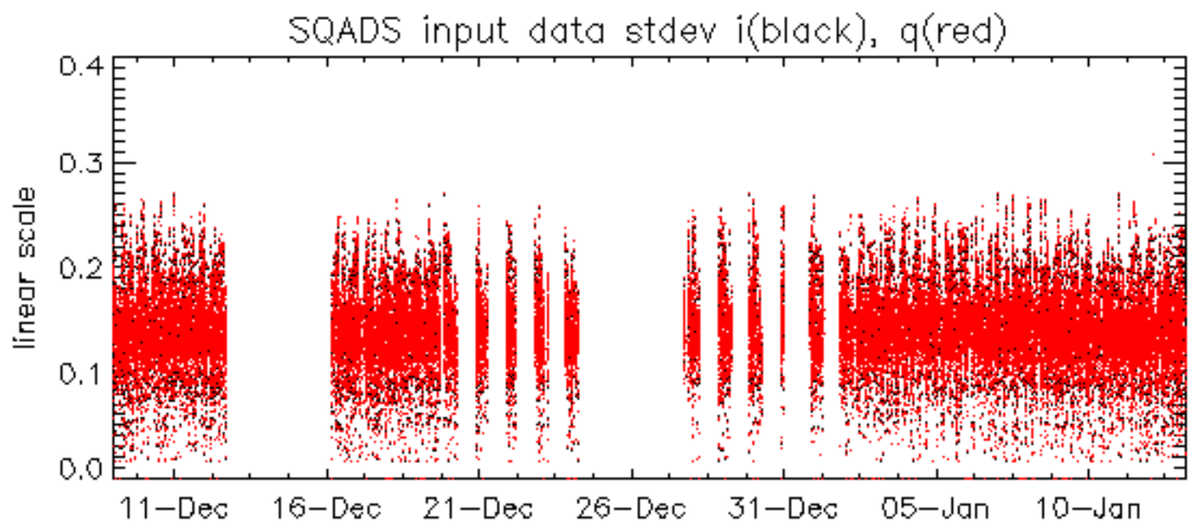
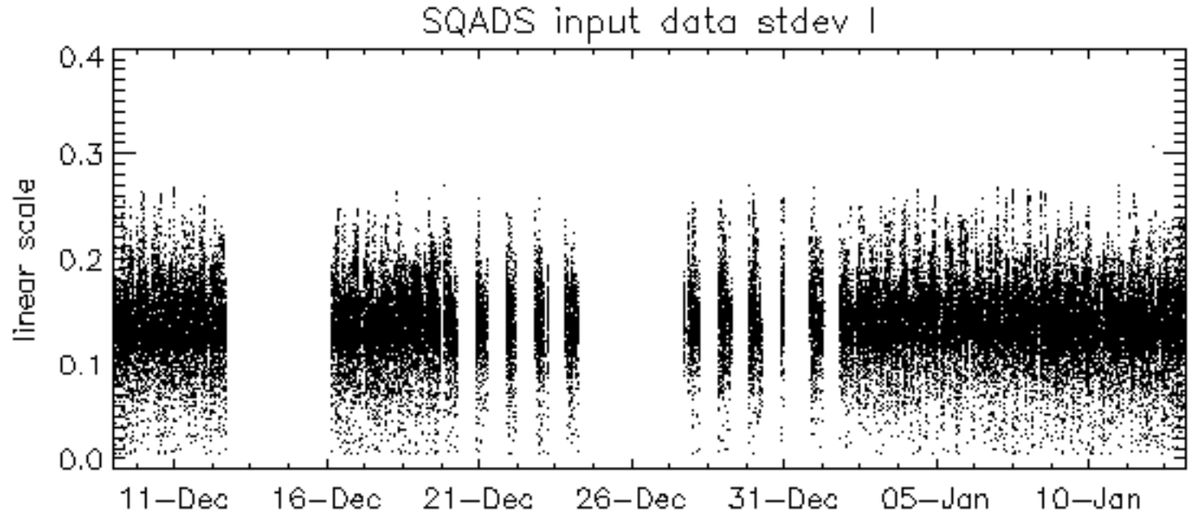
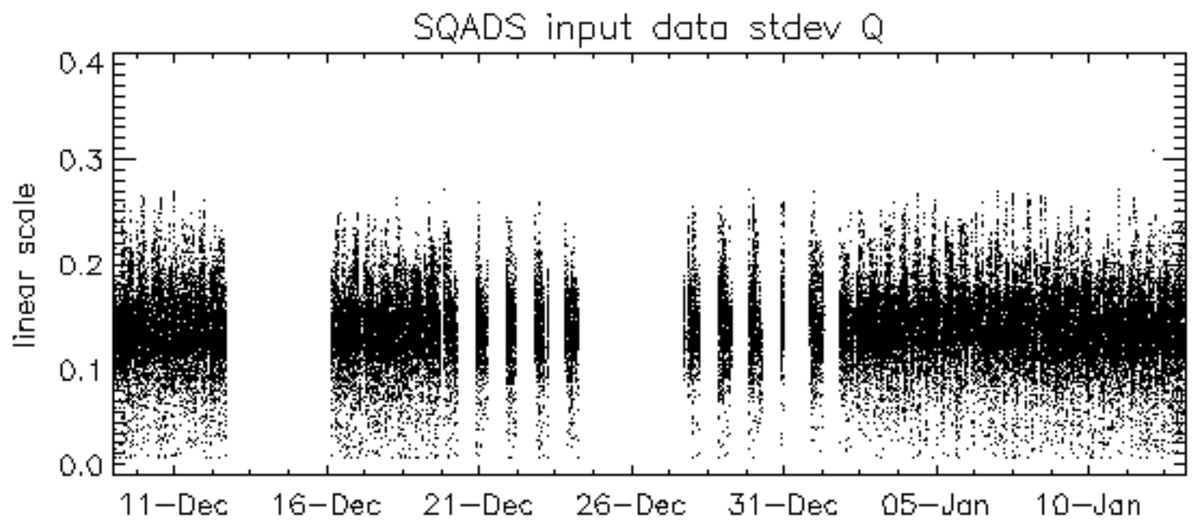

Reference: 2005-09-23 05:55:14 V
Test : 2007-01-12 06:35:22 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

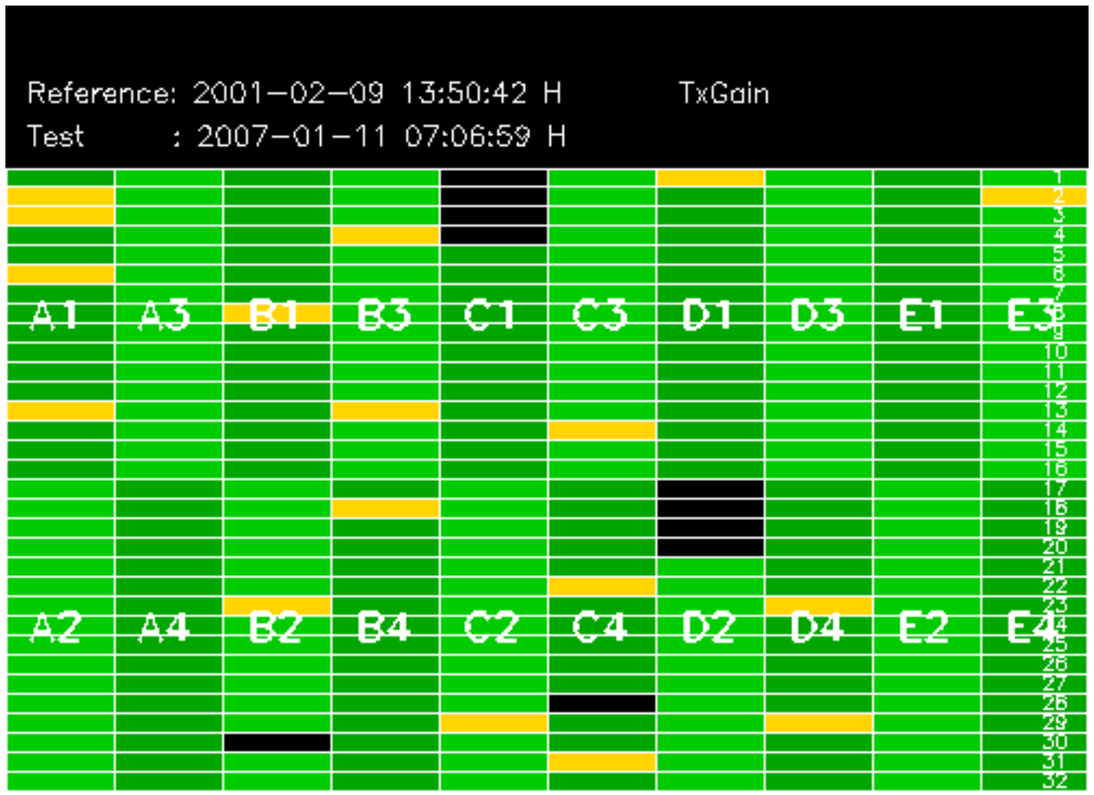

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I


SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Dec
16−Dec
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan
SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Dec
16−Dec
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan
SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Dec
16−Dec
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
11−Dec
16−Dec
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
11−Dec
16−Dec
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
11−Dec
16−Dec
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan


Reference: 2001-02-09 13:50:42 H
Test : 2007-01-11 07:06:59 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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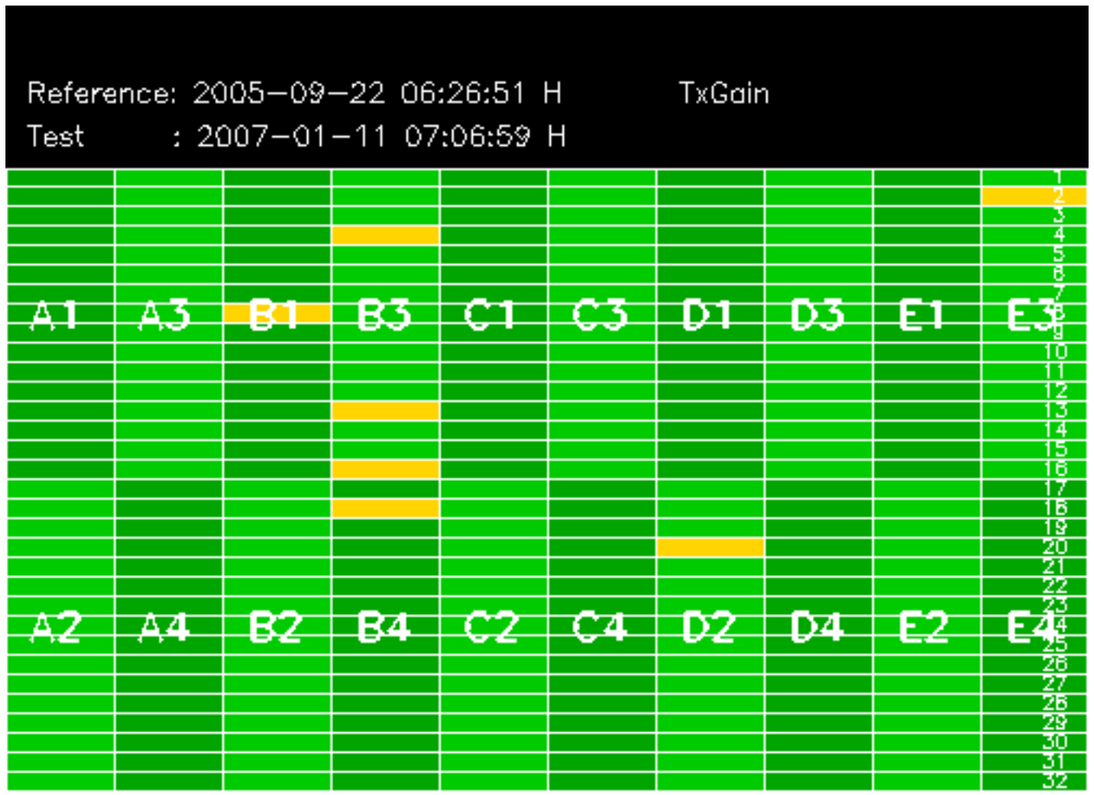
Reference: 2005-09-22 06:26:51 H
Test : 2007-01-11 07:06:59 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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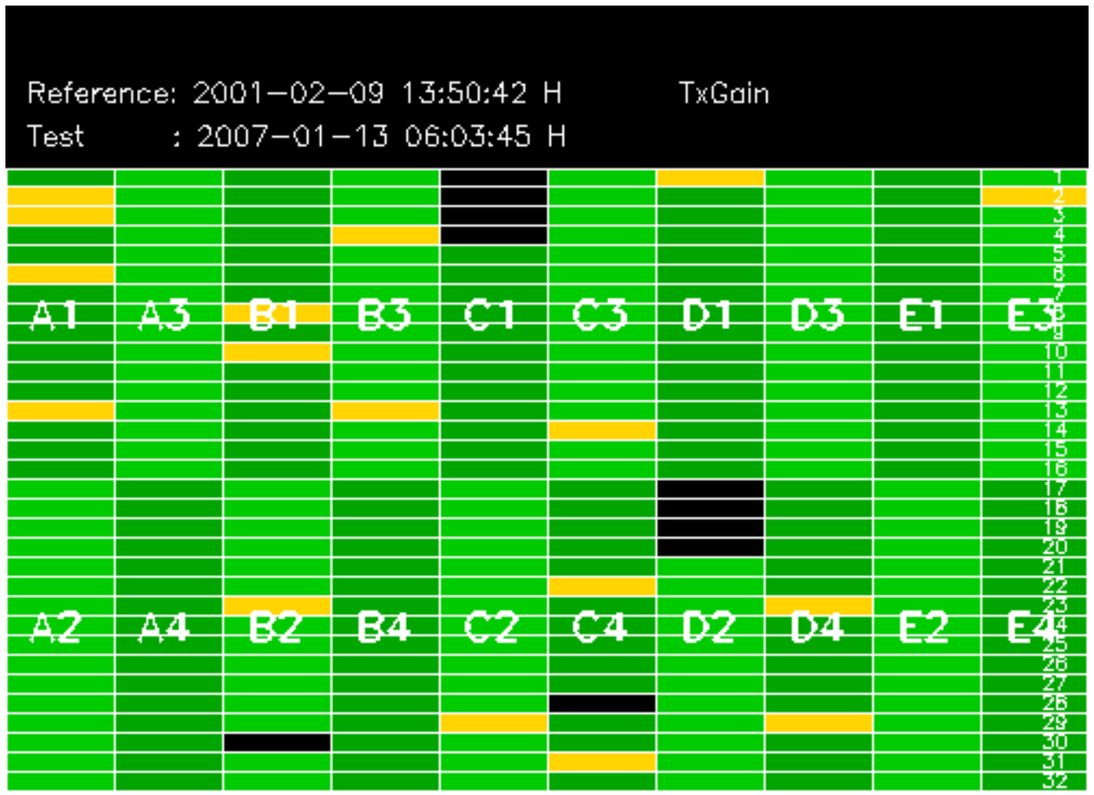
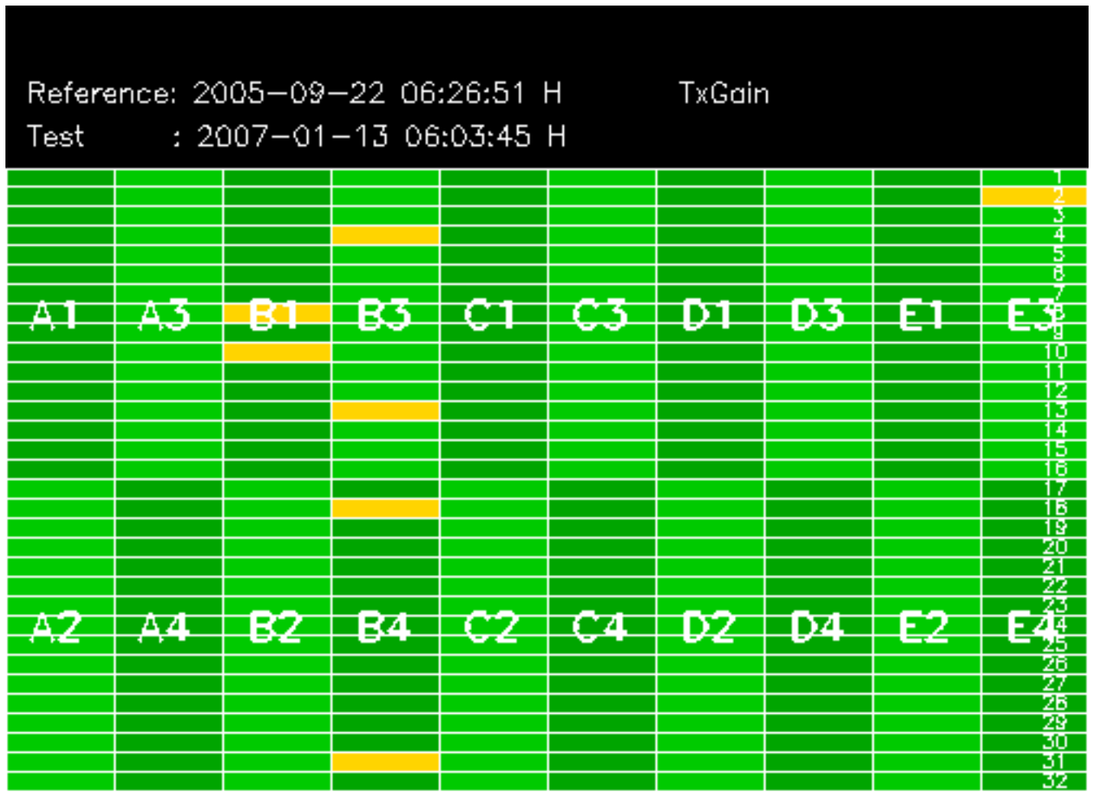

Reference: 2001-02-09 13:50:42 H
Test : 2007-01-13 06:03:45 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-13 06:03:45 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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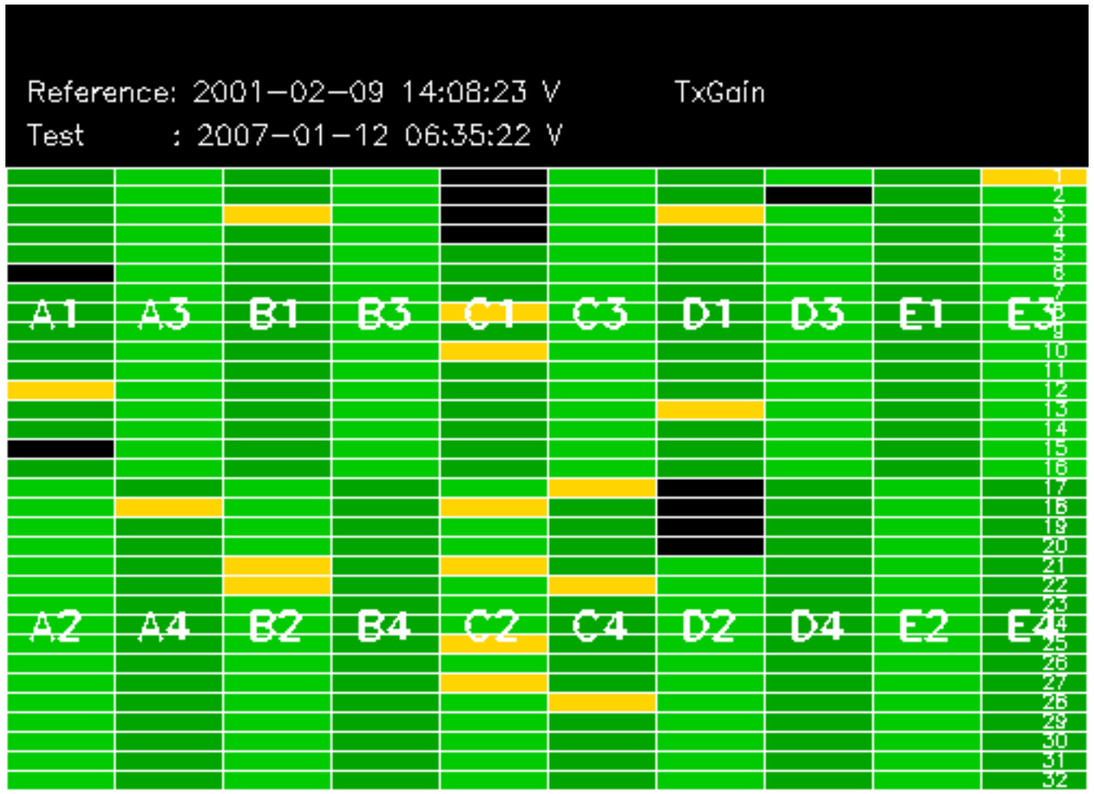
Reference: 2001-02-09 14:08:23 V
Test : 2007-01-12 06:35:22 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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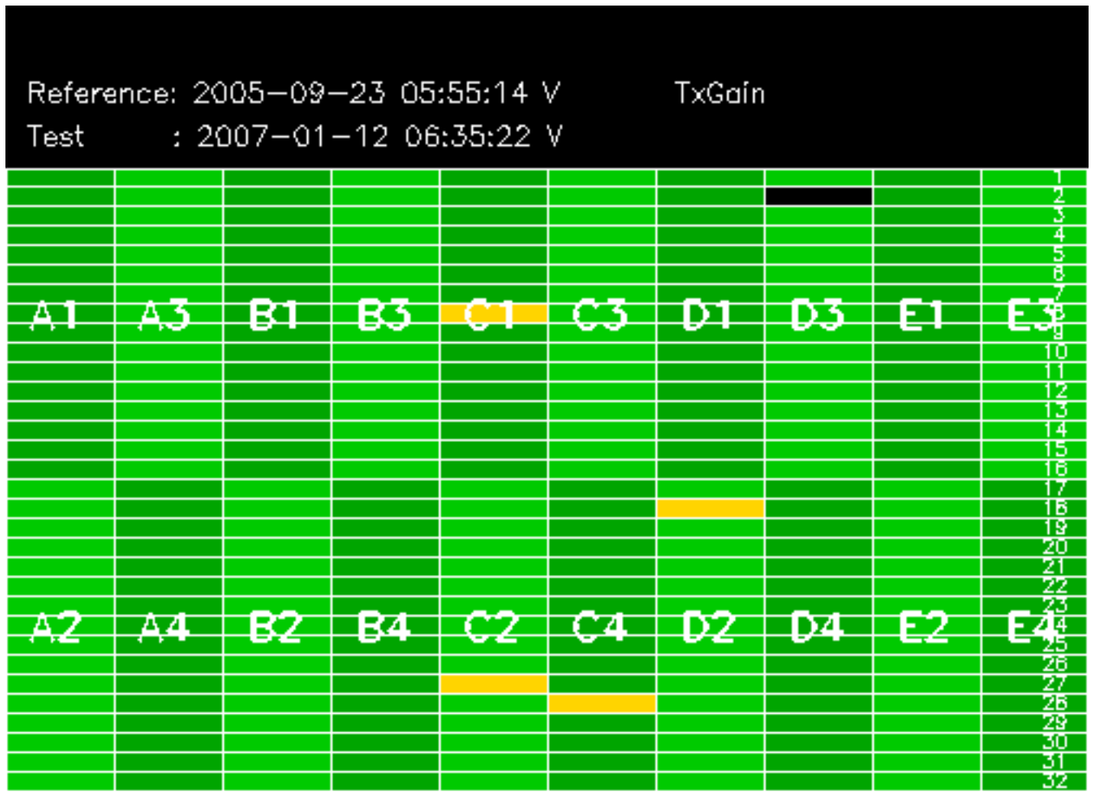
Reference: 2005-09-23 05:55:14 V
Test : 2007-01-12 06:35:22 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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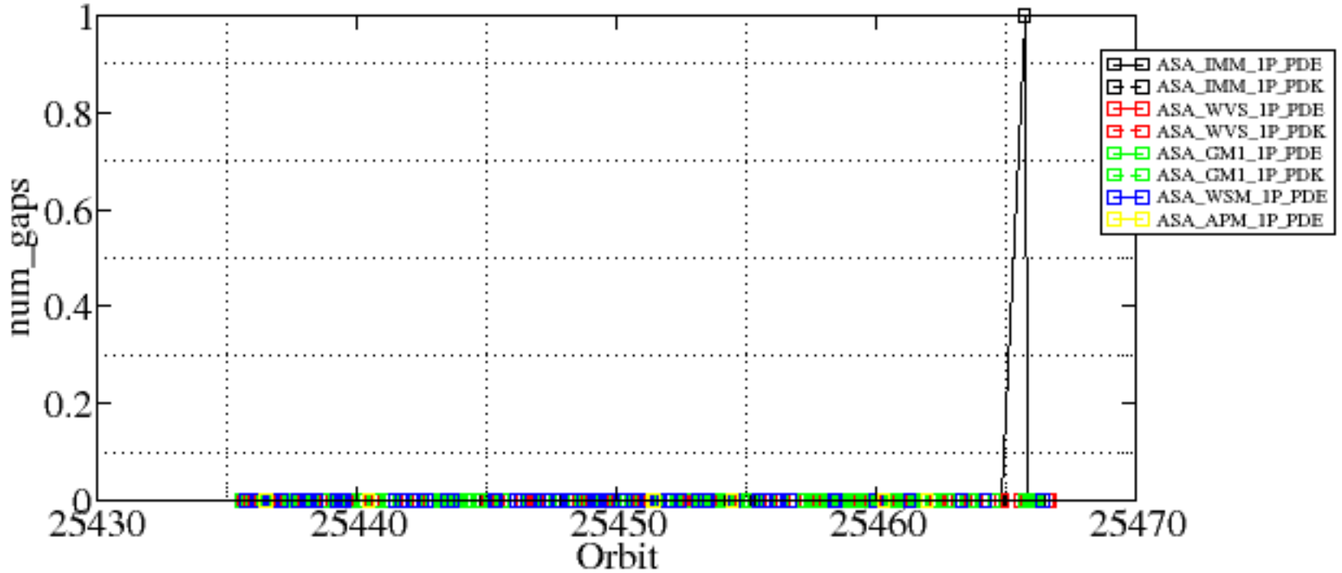
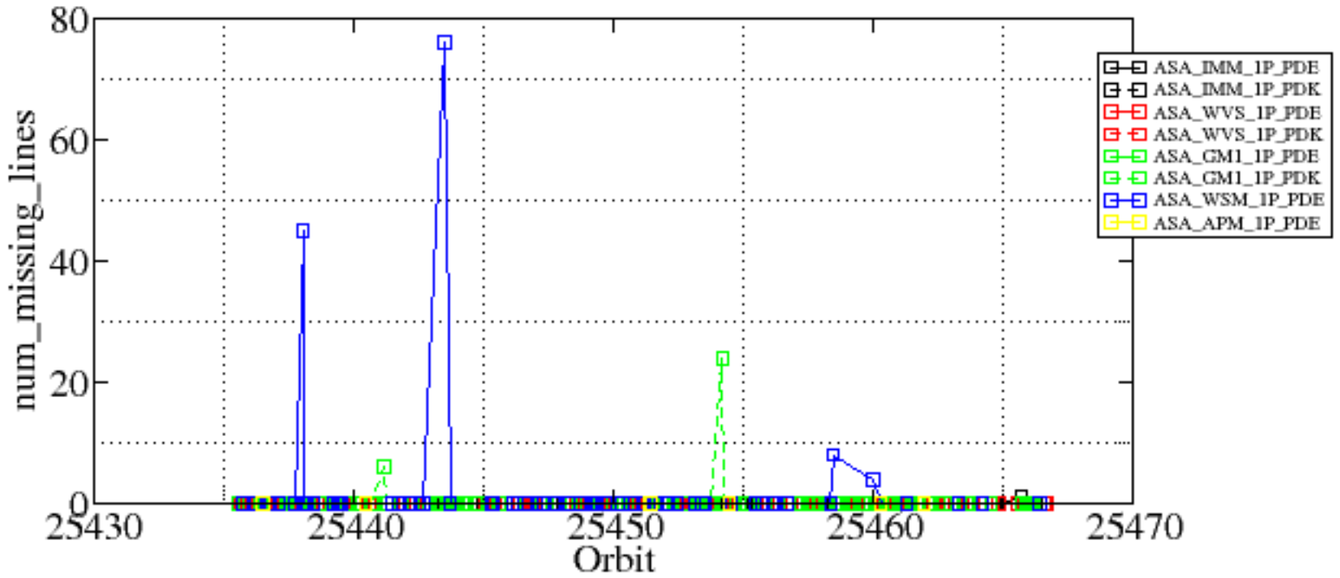
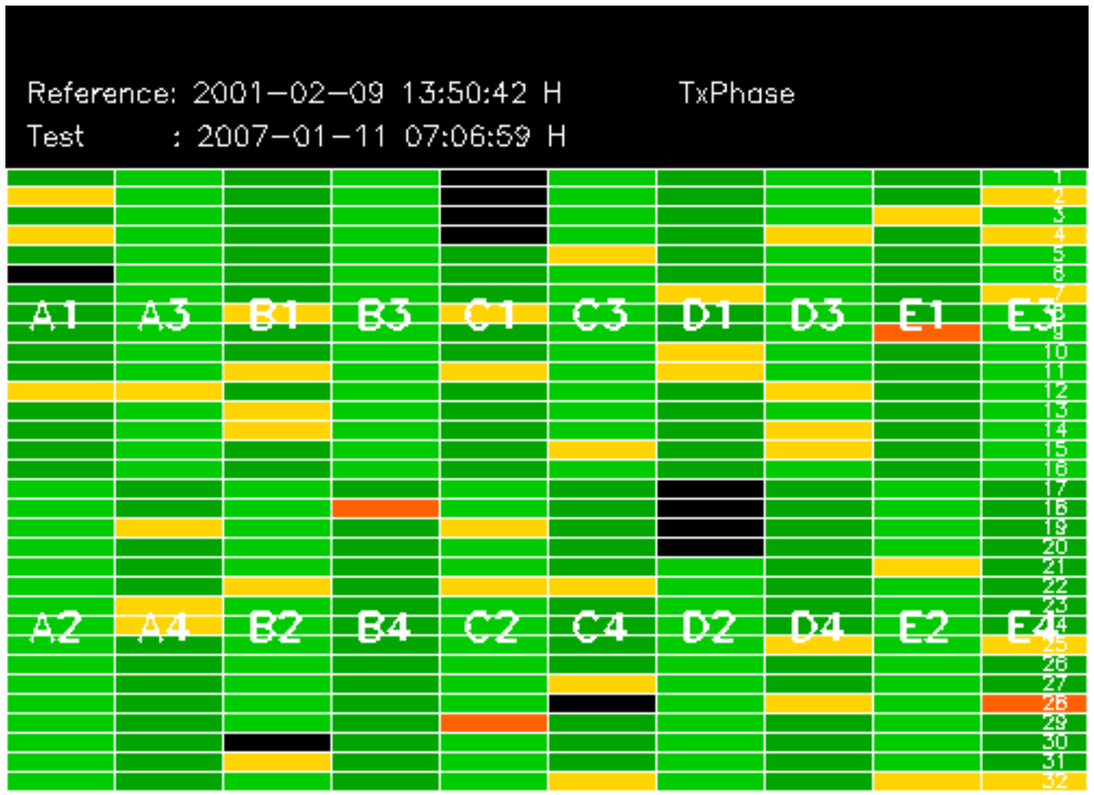
Summary of analysis for the last 3 days 2007011[123]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20070113_024624_000001482054_00361_25465_5301.N1 </td> <td>1 </td> <td>1 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20070111_093819_000005432054_00337_25441_2629.N1 </td> <td>0 </td> <td>6 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20070112_072909_000005072054_00350_25454_3551.N1 </td> <td>0 </td> <td>24 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070111_042351_000000672054_00334_25438_2884.N1 </td> <td>0 </td> <td>45 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070111_042351_000001842054_00334_25438_3099.N1 </td> <td>0 </td> <td>45 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070111_133030_000000852054_00339_25443_3444.N1 </td> <td>0 </td> <td>76 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070112_143842_000003232054_00354_25458_4789.N1 </td> <td>0 </td> <td>8 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070112_171324_000002322054_00356_25460_4821.N1 </td> <td>0 </td> <td>4 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
25430
25440
25450
25460
25470
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_APM_1P_PDE


num_missing_lines
Orbit
0
20
40
60
80
25430
25440
25450
25460
25470
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_APM_1P_PDE


Reference: 2001-02-09 13:50:42 H
Test : 2007-01-11 07:06:59 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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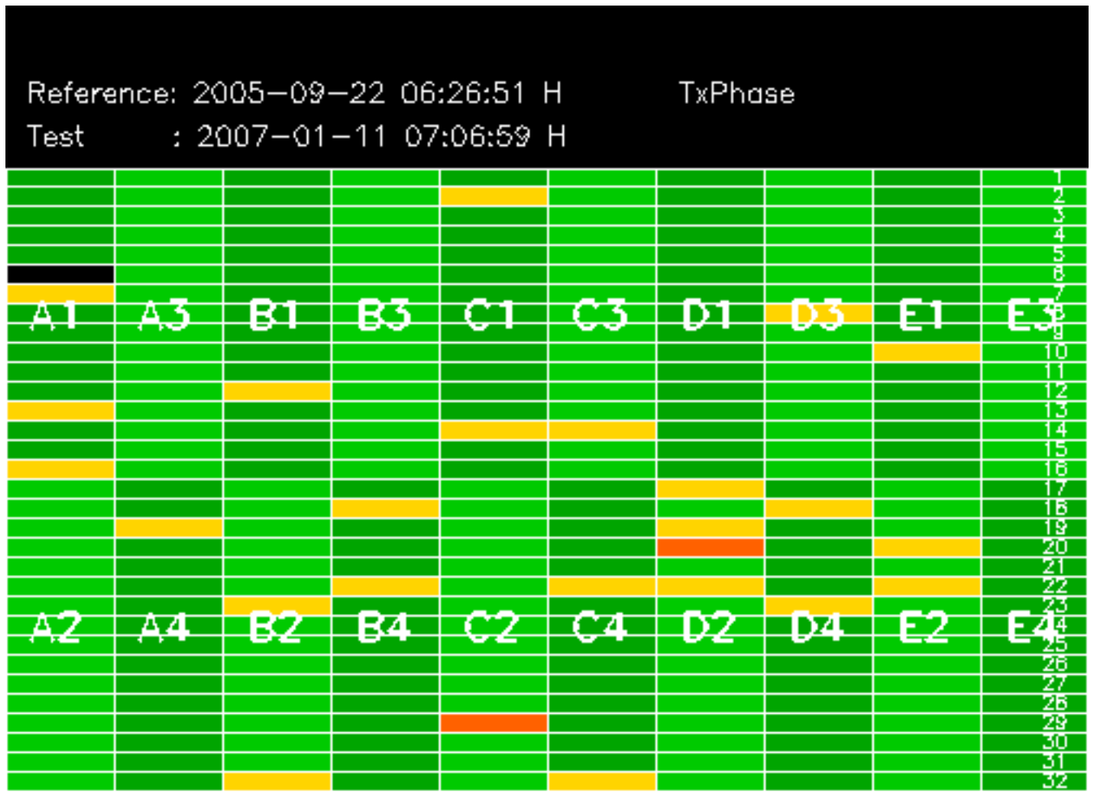
Reference: 2005-09-22 06:26:51 H
TxPhase
Test : 2007-01-11 07:06:59 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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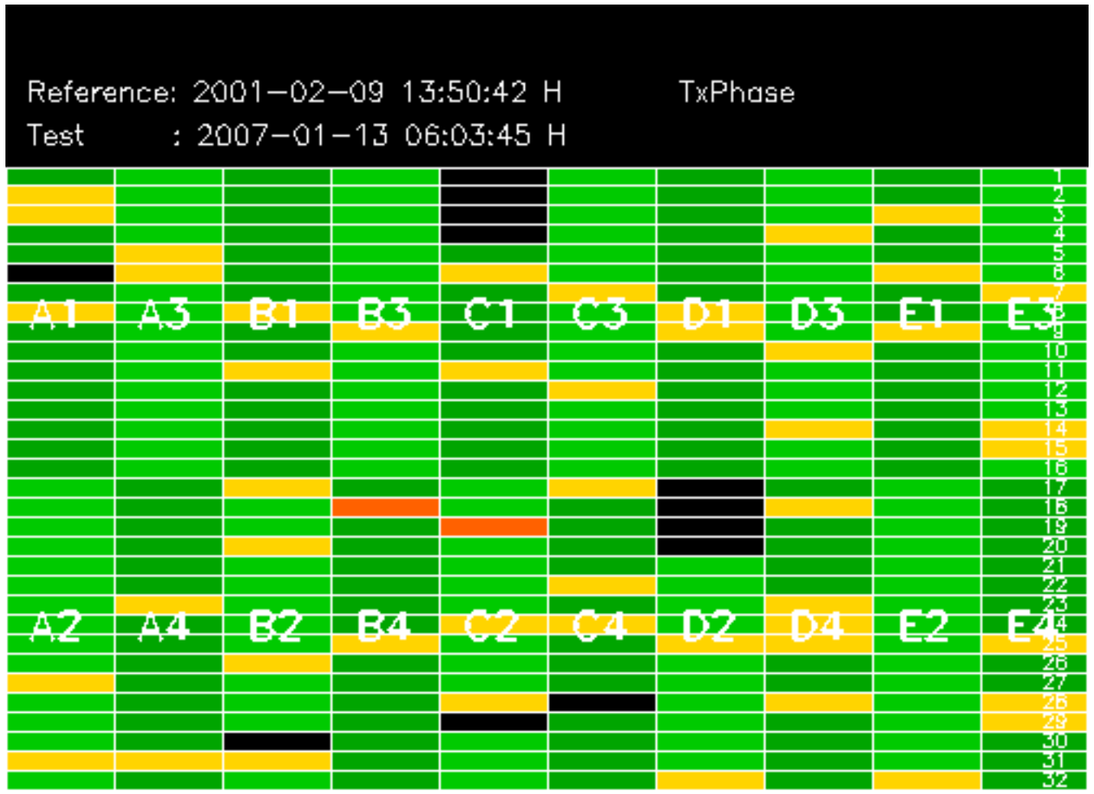
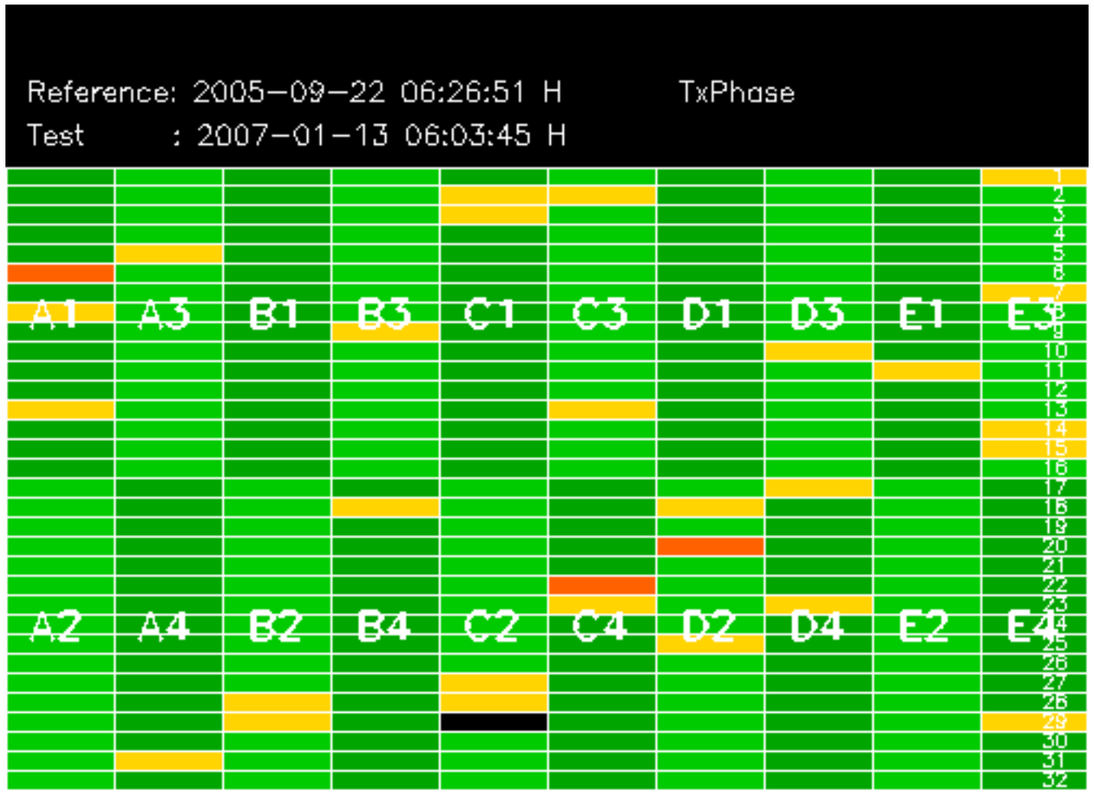

Reference: 2001-02-09 13:50:42 H
Test : 2007-01-13 06:03:45 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-13 06:03:45 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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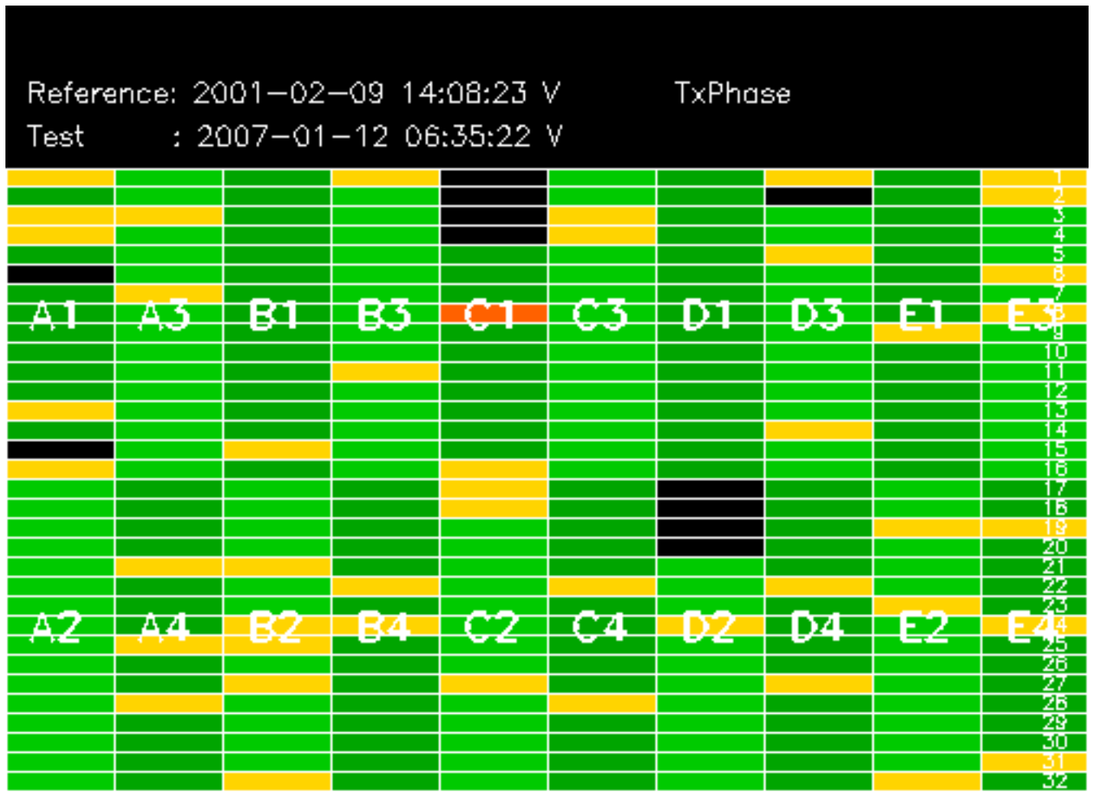
Reference: 2001-02-09 14:08:23 V
Test : 2007-01-12 06:35:22 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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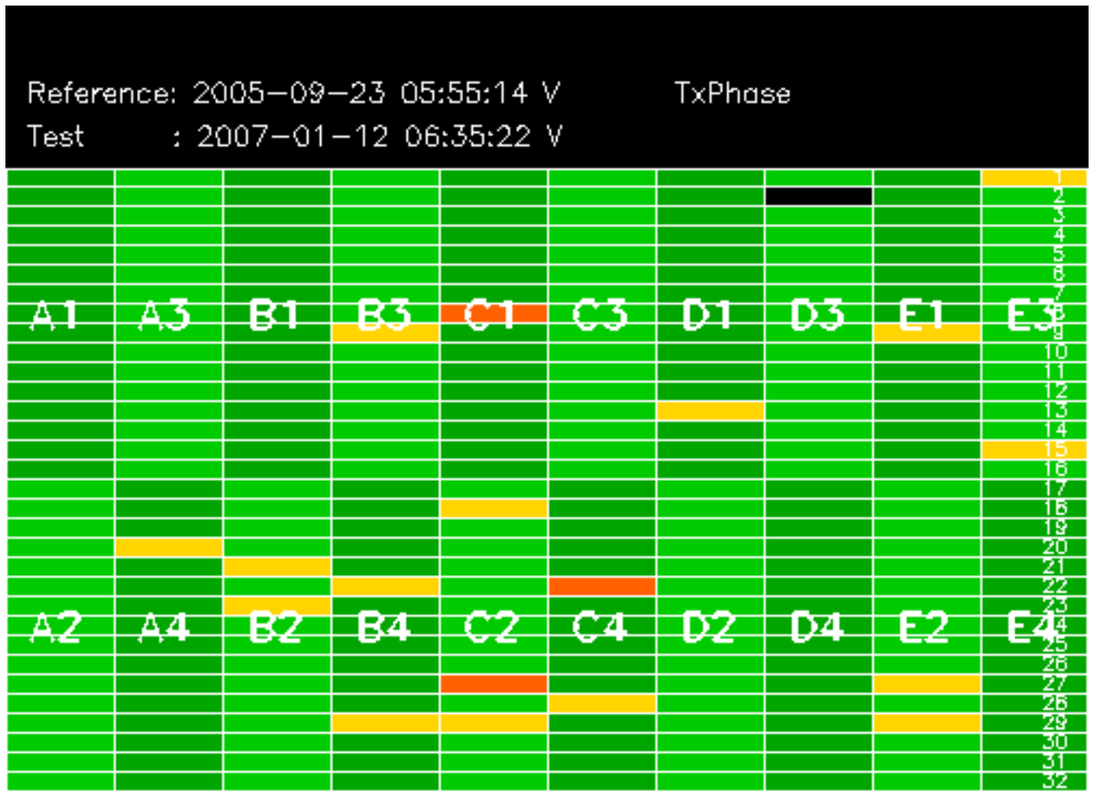
Reference: 2005-09-23 05:55:14 V
Test : 2007-01-12 06:35:22 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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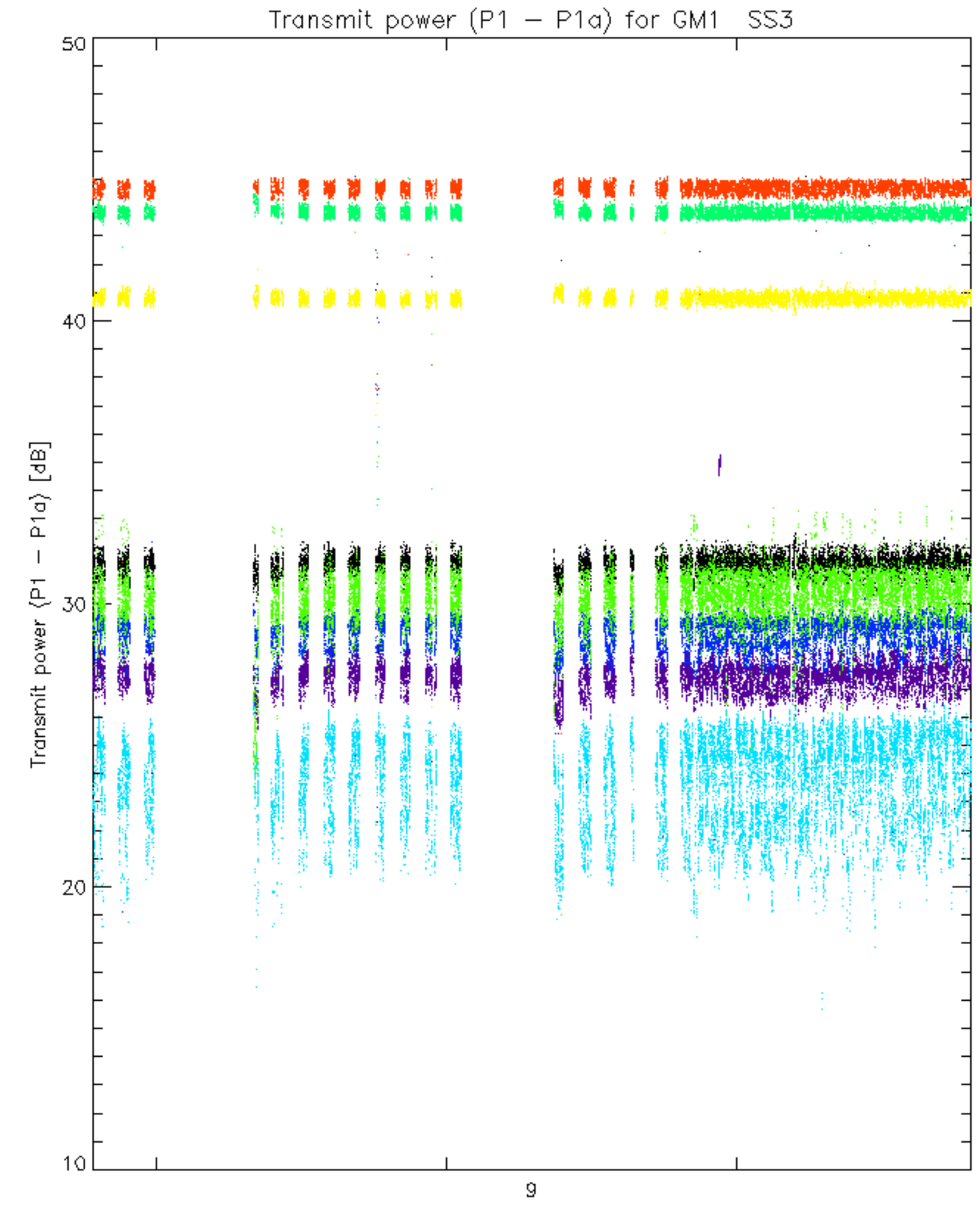
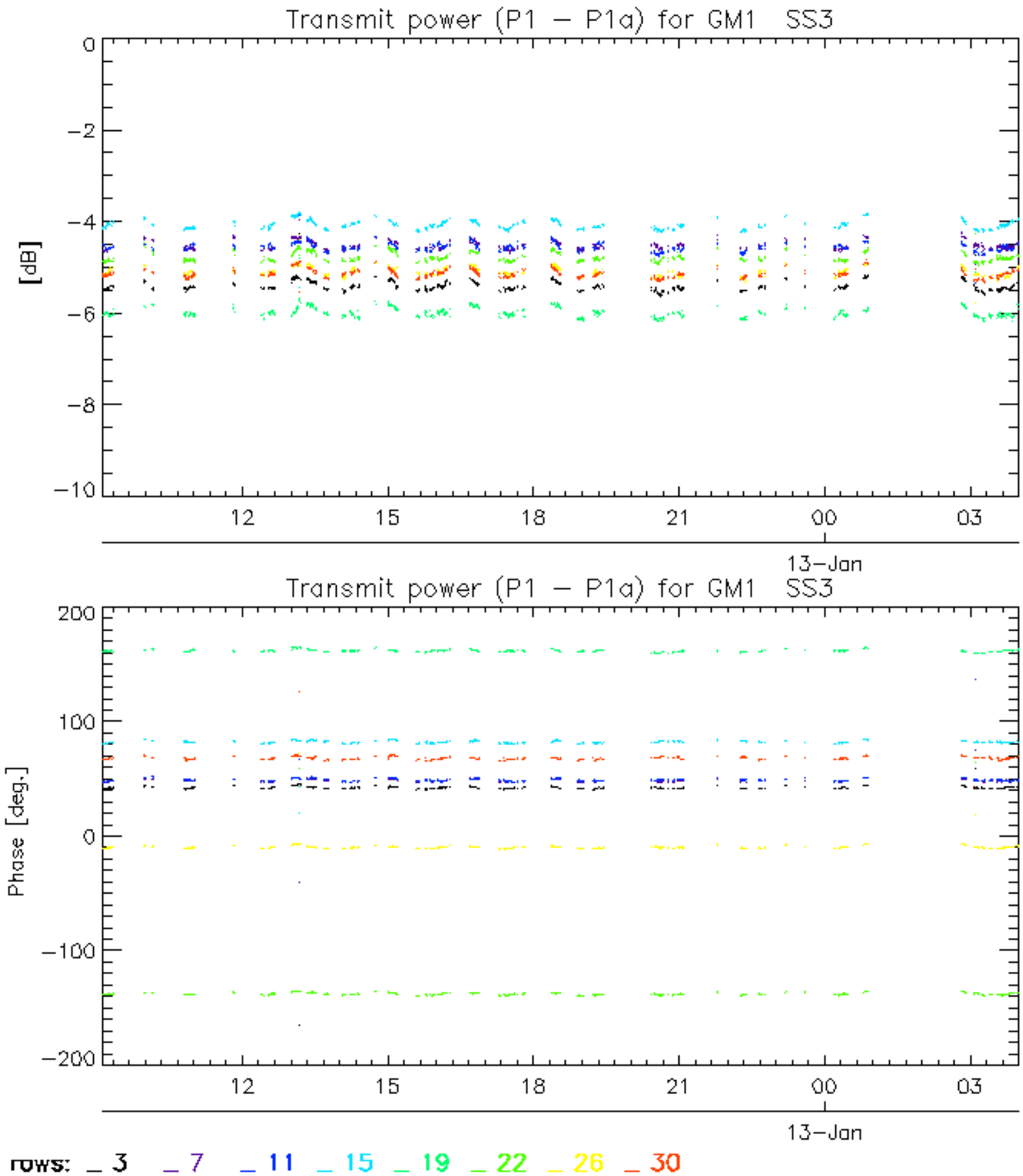
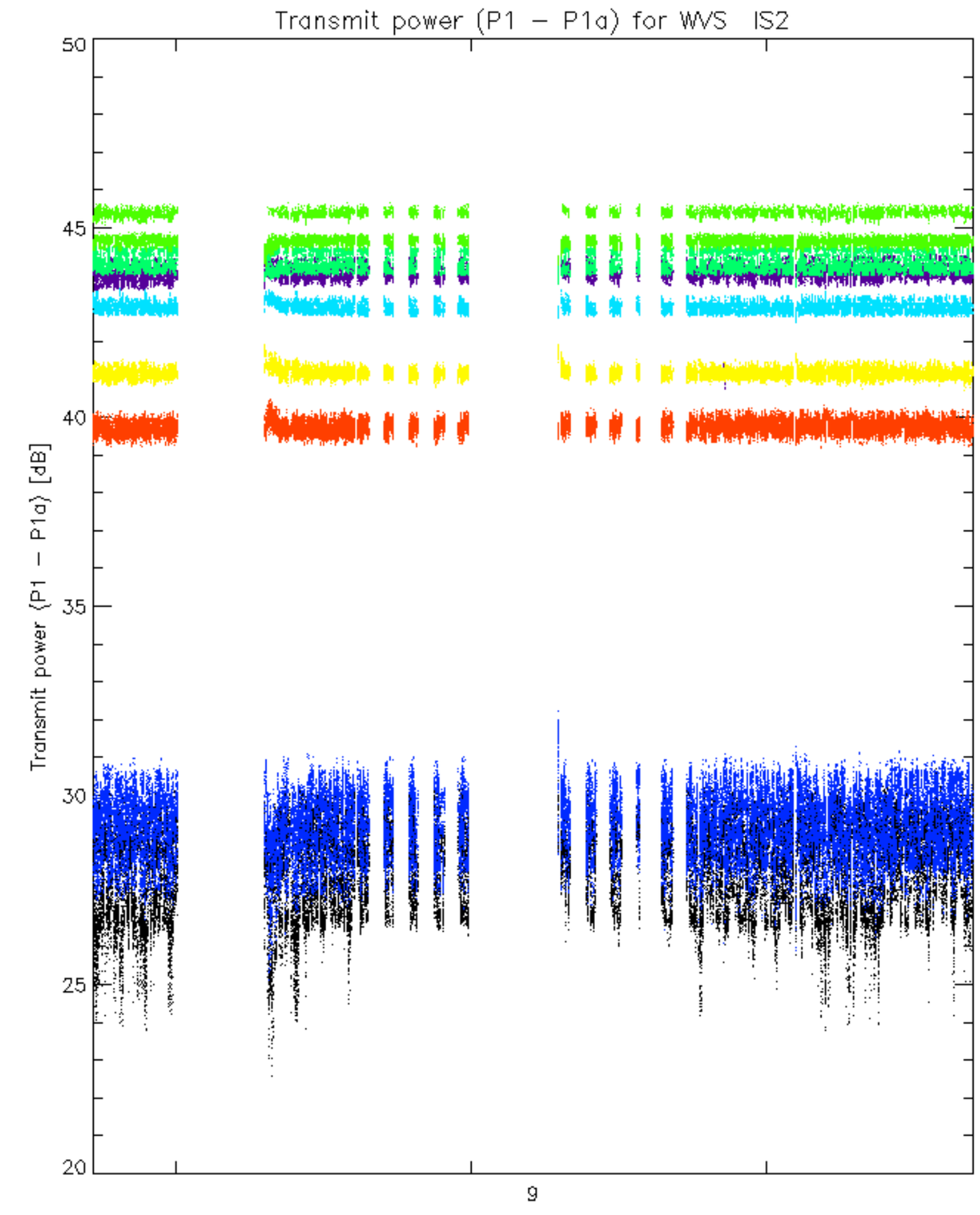
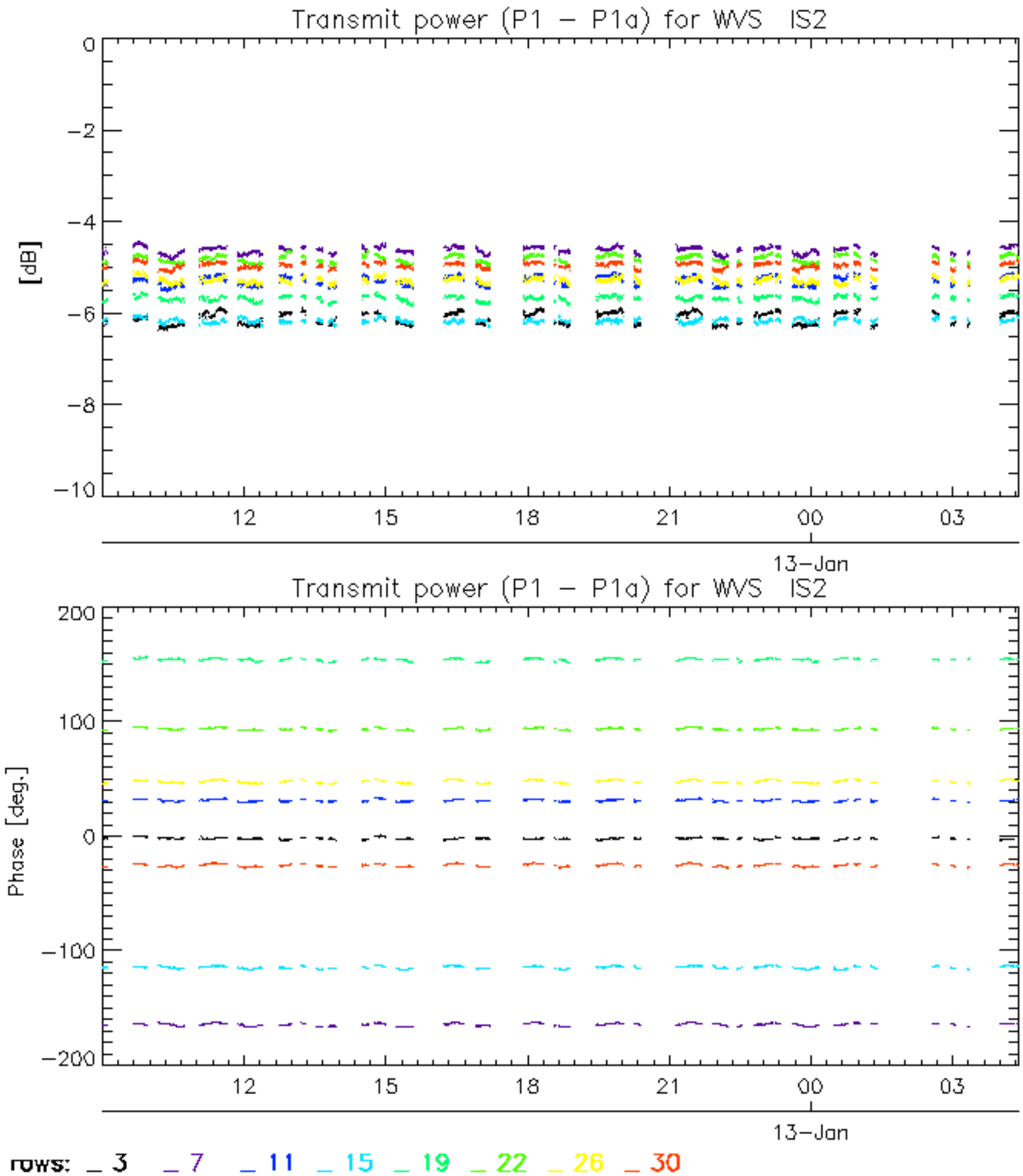

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
9
rows: 3 7 11 15 19 22 26 30


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


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
50
45
40
35
30
25
20
9
rows: 3 7 11 15 19 22 26 30


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

No unavailabilities during the reported period.