PRELIMINARY REPORT OF 070311

last update on Sun Mar 11 17:55:52 GMT 2007

Due to an ASAR test acquisition campaign, the daily analysis on WVS products
will be based on IS4 instead of IS2 during the following periods:

From orbit 25621 (23-Jan-2007) to 25720 (30-Jan-2007) in HH polarization
From orbit 26122 (27-Feb-2007) to 26221 (06-Mar-2007) in HH polarization
From orbit 25721 (30-Jan-2007) to 25820 (06-Feb-2007) in VV polarization
From orbit 26222 (06-Mar-2007) to 26321 (13-Mar-2007) in VV polarization

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 2007-03-10 00:00:00 to 2007-03-11 17:55:52

PDHS-K					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20070222_190441_20070204_165113_20071231_000000	41	78	10	2	34
ASA_INS_AXVIEC20070306_164819_20070307_060000_20071231_000000	41	78	10	2	34
ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	41	78	10	2	34
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	41	78	10	2	34

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20070222_190441_20070204_165113_20071231_000000	42	49	41	7	59
ASA_INS_AXVIEC20070306_164819_20070307_060000_20071231_000000	42	49	41	7	59
ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	42	49	41	7	59
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	42	49	41	7	59

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	20070310 064400
H	20070311 061222

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)
3	P1a	-10.550919	0.281284	-0.362830
7	P1a	-10.188370	0.204029	0.094852
11	P1a	-10.855486	0.111301	0.115245
15	P1a	-12.140979	1.688092	0.728923
19	P1a	-14.720693	1.207345	-0.619517
22	P1a	-18.526936	8.070078	-1.419302
26	P1a	-15.652060	0.477709	0.147304
30	P1a	-21.054029	7.722959	1.494111

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-8.361974	0.083509	-0.174388
7	P1	-2.638162	0.050229	0.023979
11	P1	-3.386451	0.155985	0.231472
15	P1	-5.065231	1.522758	0.695254
19	P1	-3.336056	0.099460	-0.204923
22	P1	-5.476777	0.162962	0.213126
26	P1	-5.107446	0.790245	-0.544538
30	P1	-5.502448	0.065115	0.148532

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-18.093180	0.085774	0.029282
7	P2	-21.785082	0.127133	-0.090435
11	P2	-10.724643	0.135386	-0.166186
15	P2	-5.090295	0.077260	-0.055407
19	P2	-7.214438	0.076625	-0.009653
22	P2	-8.371109	0.076213	0.047983

26	P2	-24.099945	0.123616	-0.224191
30	P2	-21.650236	0.064358	0.072316

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.226789	0.007534	-0.017795
7	P3	-8.226789	0.007534	-0.017795
11	P3	-8.226789	0.007534	-0.017795
15	P3	-8.226789	0.007534	-0.017795
19	P3	-8.226789	0.007534	-0.017795
22	P3	-8.226789	0.007534	-0.017795
26	P3	-8.226789	0.007534	-0.017795
30	P3	-8.226789	0.007534	-0.017795

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1a	-11.074586	0.049507	-0.020486
7	P1a	-10.061545	0.130437	-0.044256
11	P1a	-10.653838	0.063435	-0.058025
15	P1a	-10.910923	0.135870	-0.156397
19	P1a	-15.711837	0.069467	0.082941
22	P1a	-20.859282	1.169923	-0.153309
26	P1a	-15.320610	0.269101	0.233647
30	P1a	-18.386520	0.342711	-0.117510

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-8.383963	0.037962	-0.065744
7	P1	-2.431039	0.020665	0.011720

11	P1	-2.915994	0.018806	-0.027575
15	P1	-3.833567	0.038971	-0.053233
19	P1	-3.552664	0.011551	-0.004734
22	P1	-5.038339	0.023447	-0.034815
26	P1	-5.969488	0.026238	0.050710
30	P1	-5.279147	0.021756	0.015306

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-18.096630	0.032594	0.008369
7	P2	-21.957689	0.055540	0.060242
11	P2	-10.647846	0.030755	0.031623
15	P2	-4.817955	0.027540	-0.003126
19	P2	-6.809012	0.029544	0.011368
22	P2	-8.096980	0.033768	0.074690
26	P2	-24.266182	0.036118	-0.082927
30	P2	-21.746458	0.037841	0.064586

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.047111	0.003678	-0.025161
7	P3	-8.047129	0.003682	-0.024854
11	P3	-8.047227	0.003683	-0.025120
15	P3	-8.047139	0.003698	-0.025399
19	P3	-8.047182	0.003682	-0.025273
22	P3	-8.047211	0.003681	-0.025227
26	P3	-8.047007	0.003681	-0.025248
30	P3	-8.047168	0.003695	-0.024978

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	0.000632049
	stdev	2.56409e-07
MEAN Q	mean	0.000358741
	stdev	2.73478e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.107475
	stdev	0.00244496
STDEV Q	mean	0.107483
	stdev	0.00250135

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2007031[901]
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_1PNPDE20070311_004054_000000622056_00174_26280_8589.N1	1	0
ASA_WSM_1PNPDE20070310_172247_000001772056_00170_26276_8196.N1	0	2

ASA_WSM_1PNPDK20070310_140332_000000862056_00168_26274_2612.N1	0	15
ASA_APM_1PNPDE20070311_032625_000000402056_00176_26282_8971.N1	13	0

7 - Doppler Analysis

Preliminary report.The data is not yet controled

7.1 - Unbiased Doppler Error for WVS

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

7.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler
Acsending
Descending

7.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX

7.4 - Unbiased Doppler Error for GM1

Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

7.5 - Absolute Doppler for GM1

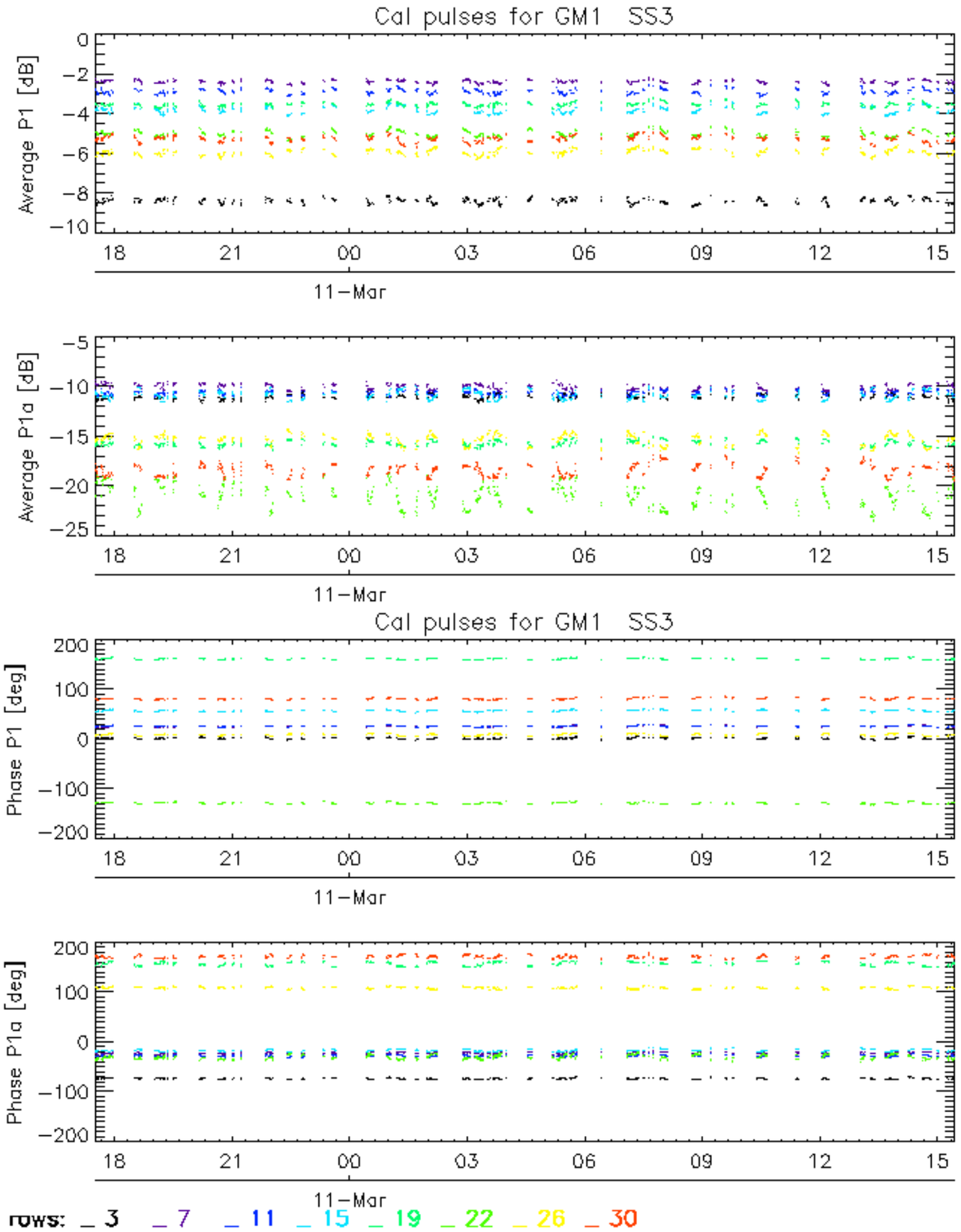
Evolution of Absolute Doppler

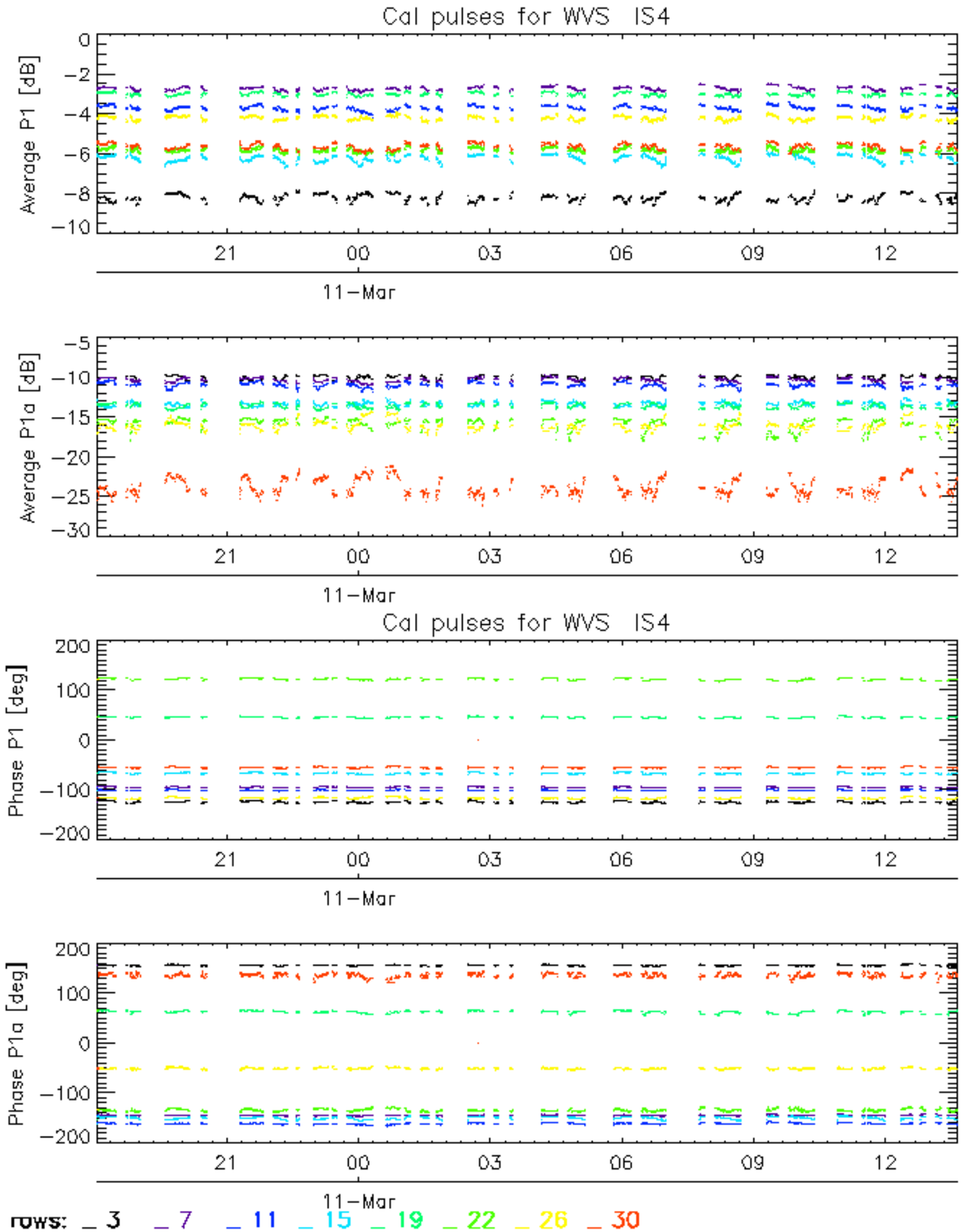
Acsending

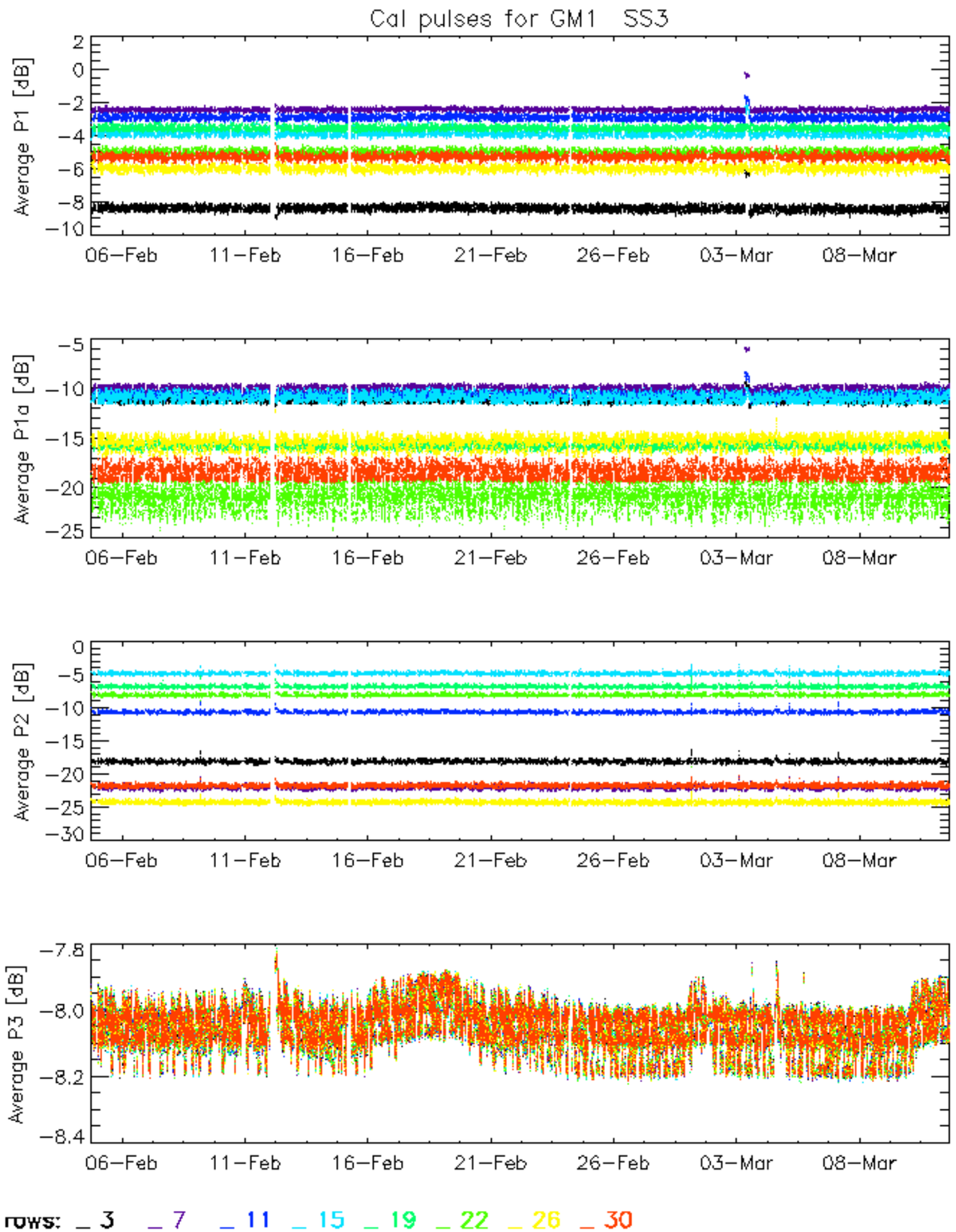
Descending

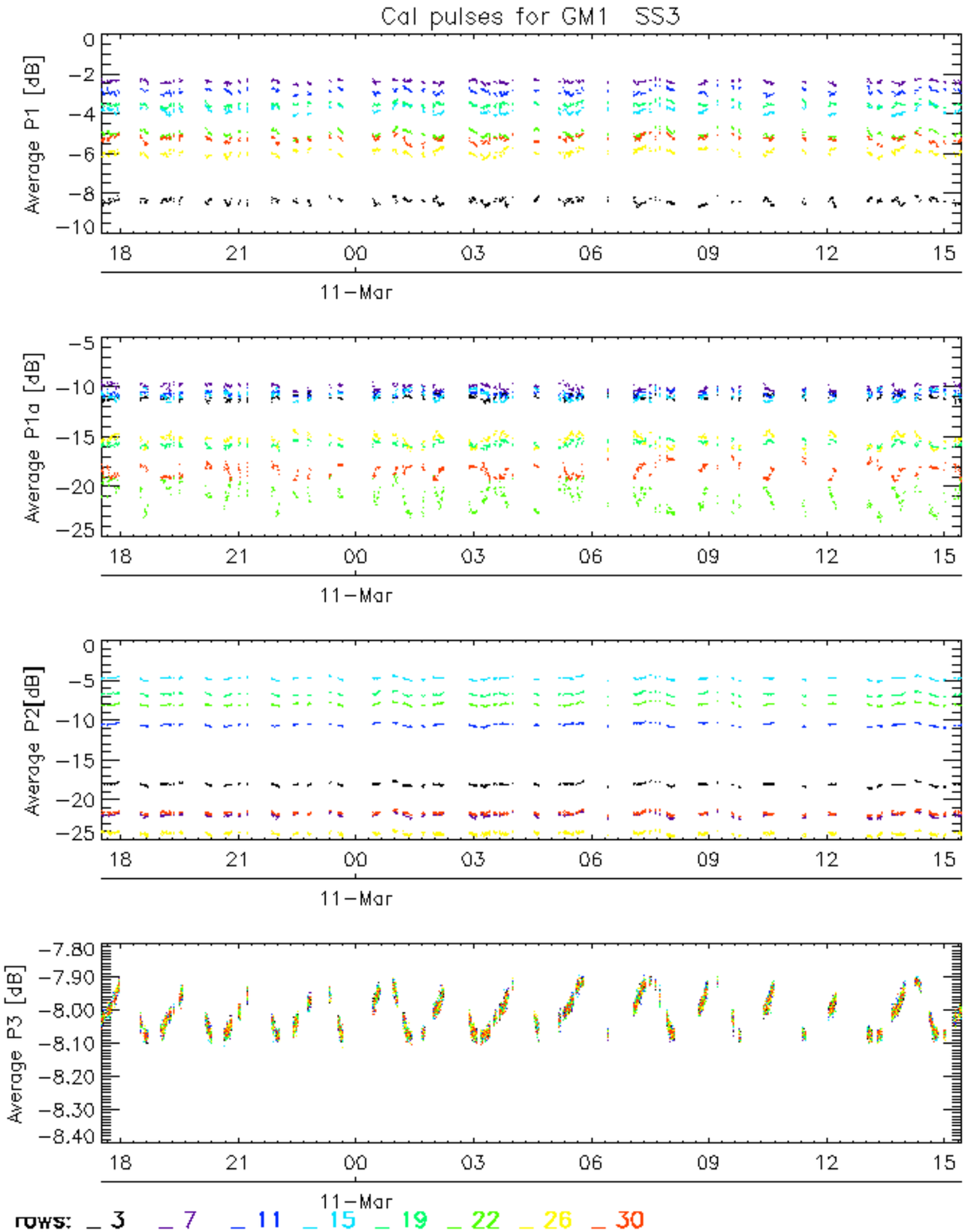
7.6 - Doppler evolution versus ANX for GM1

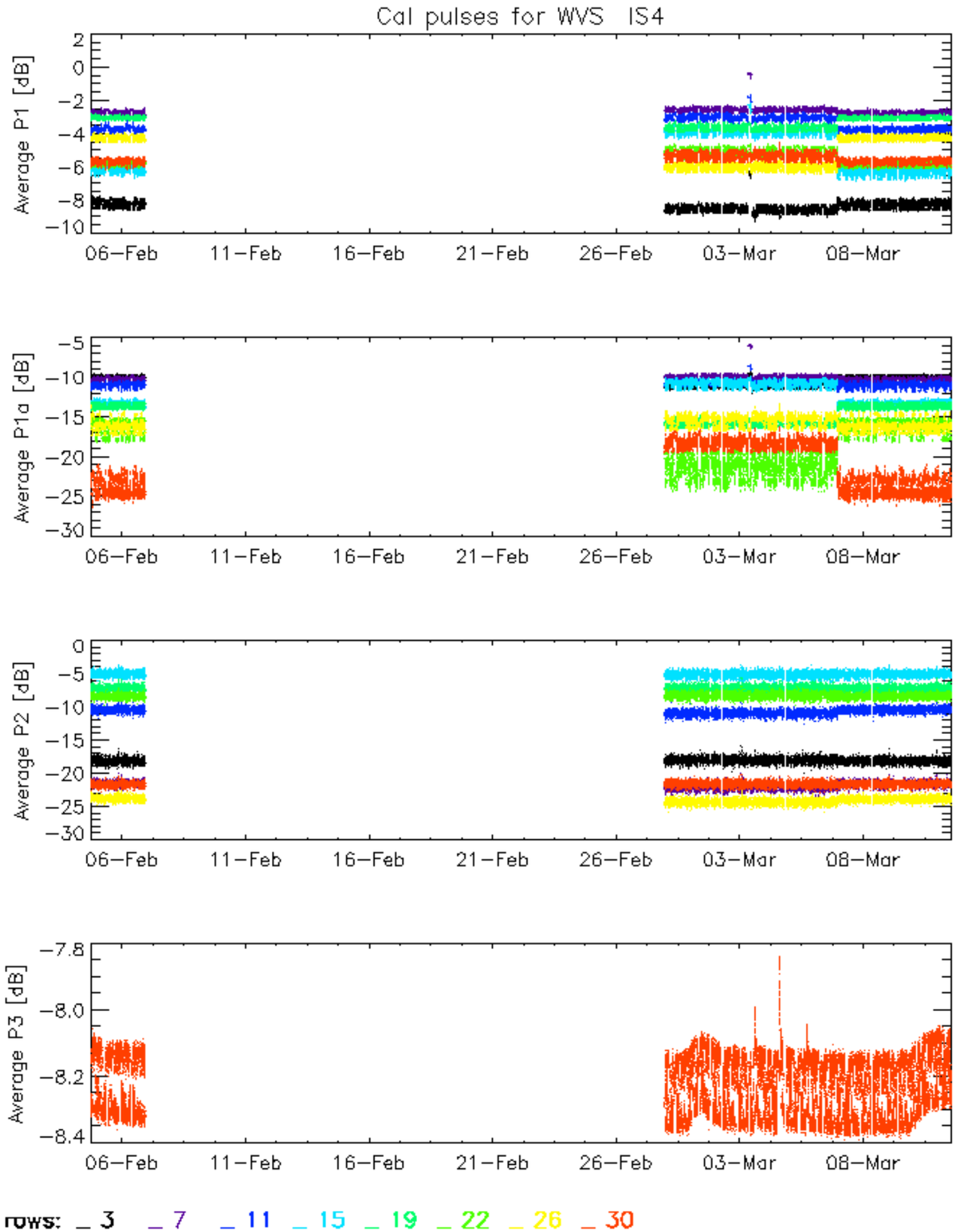
Evolution Doppler error versus ANX

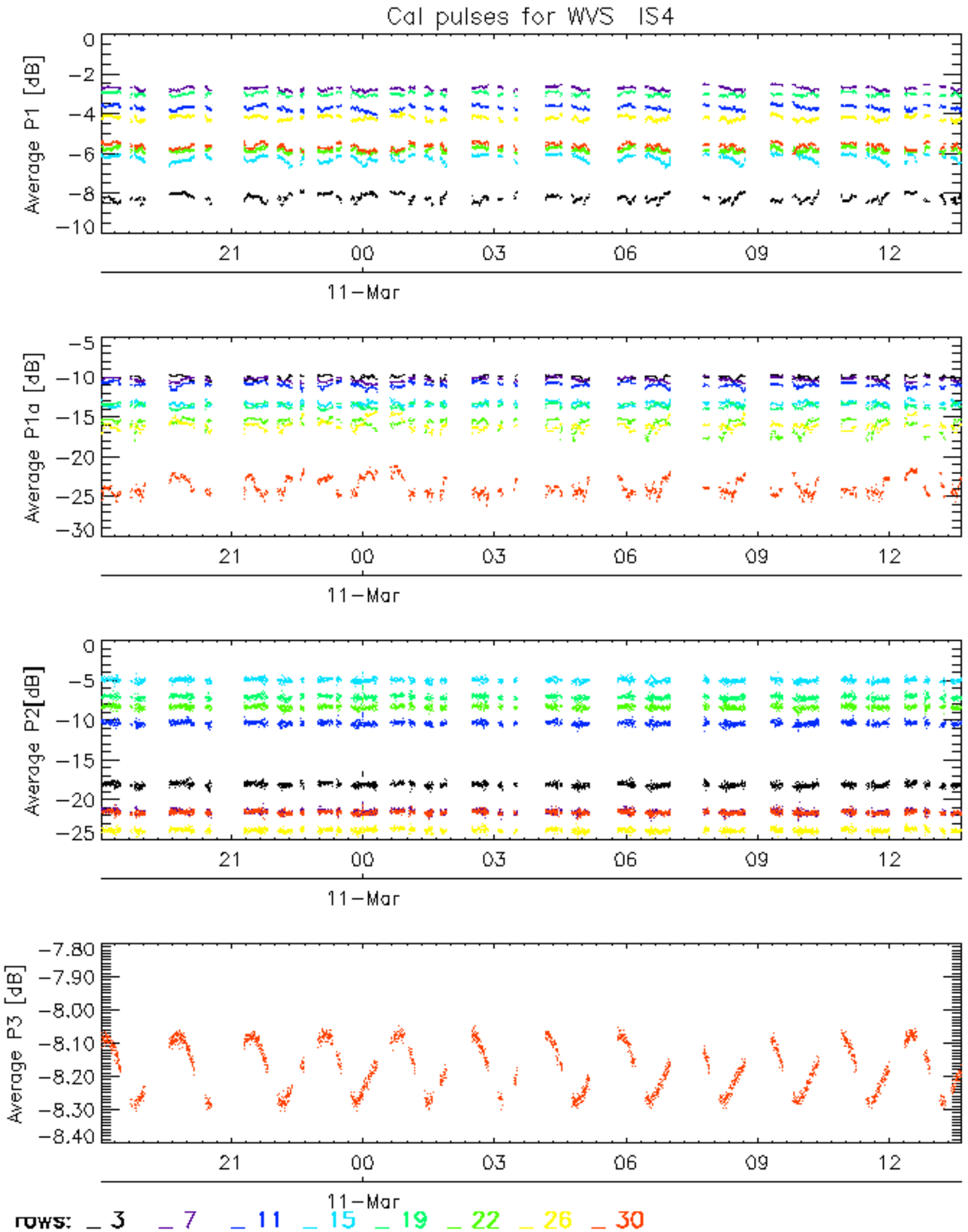


Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
18
21
00
03
06
09
12
15
11−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
Phase P1a [deg]
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS4
Average P1 [dB]
0
−2
−4
−6
−8
−10
21
00
03
06
09
12
11−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
−30
21
00
03
06
09
12
11−Mar
Cal pulses for WVS IS4
Phase P1 [deg]
200
100
0
−100
−200
21
00
03
06
09
12
11−Mar
Phase P1a [deg]
200
100
0
−100
−200
21
00
03
06
09
12
11−Mar
rows: 3 7 11 15 19 22 26 30

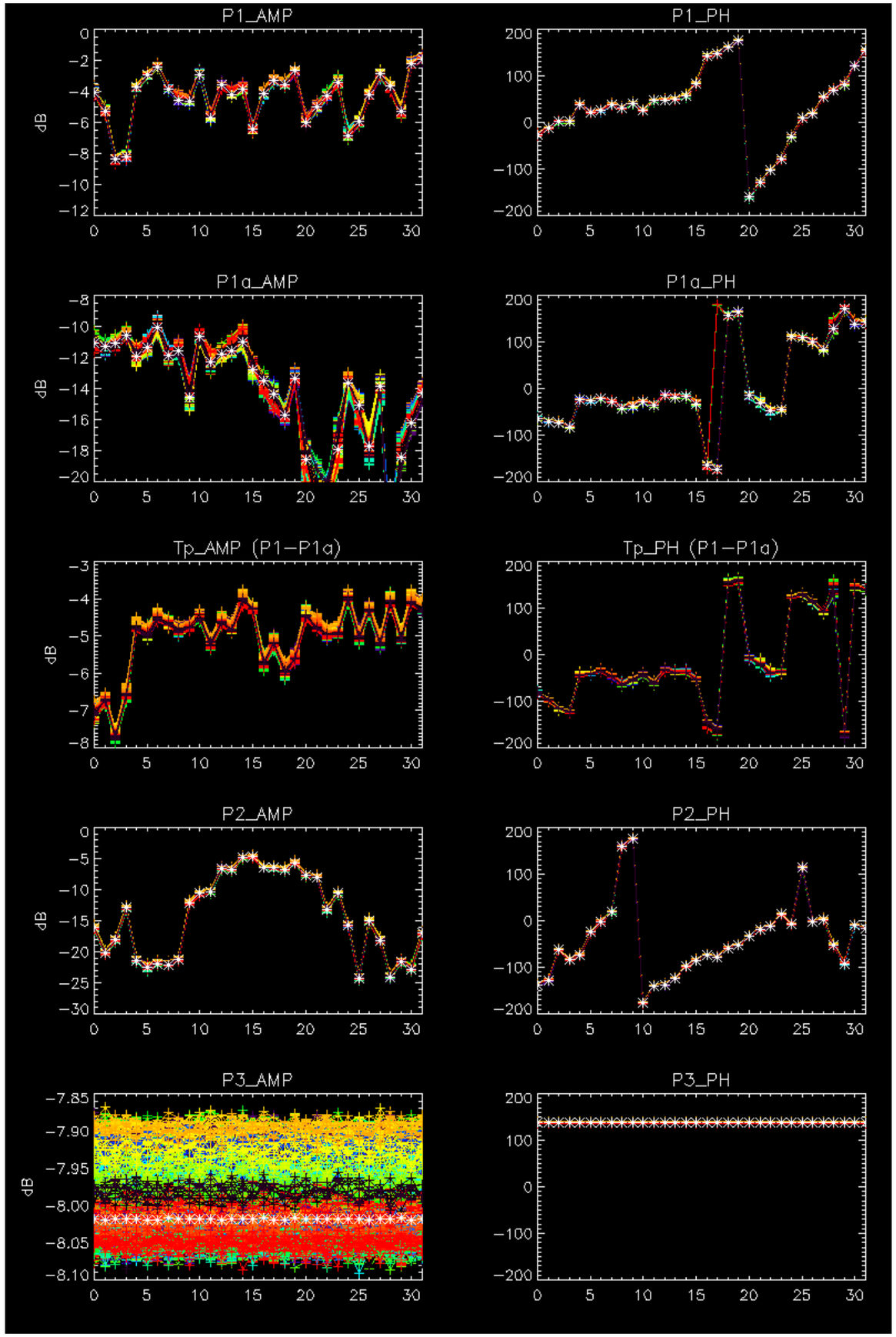

Cal pulses for GM1 SS3
Average P1 [dB]
2
0
−2
−4
−6
−8
−10
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
0
−5
−10
−15
−20
−25
−30
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
06−Feb
11−Feb
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

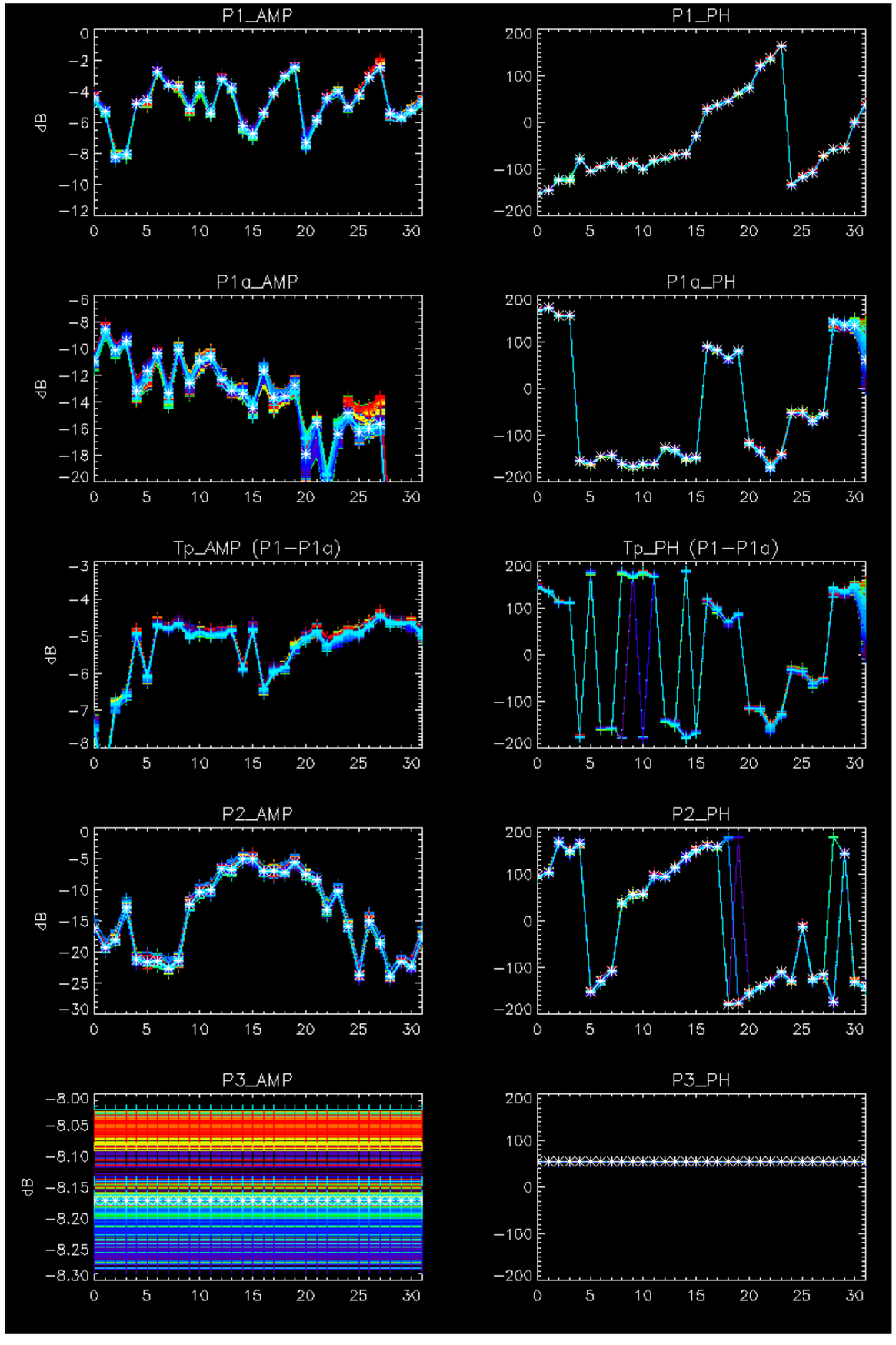

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
18
21
00
03
06
09
12
15
11−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2[dB]
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS4
Average P1 [dB]
2
0
−2
−4
−6
−8
−10
06−Feb
11−Feb
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
0
−5
−10
−15
−20
−25
−30
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30


Cal pulses for WVS IS4
Average P1 [dB]
0
−2
−4
−6
−8
−10
21
00
03
06
09
12
11−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
−30
21
00
03
06
09
12
11−Mar
Average P2[dB]
0
−5
−10
−15
−20
−25
21
00
03
06
09
12
11−Mar
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
21
00
03
06
09
12
11−Mar
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

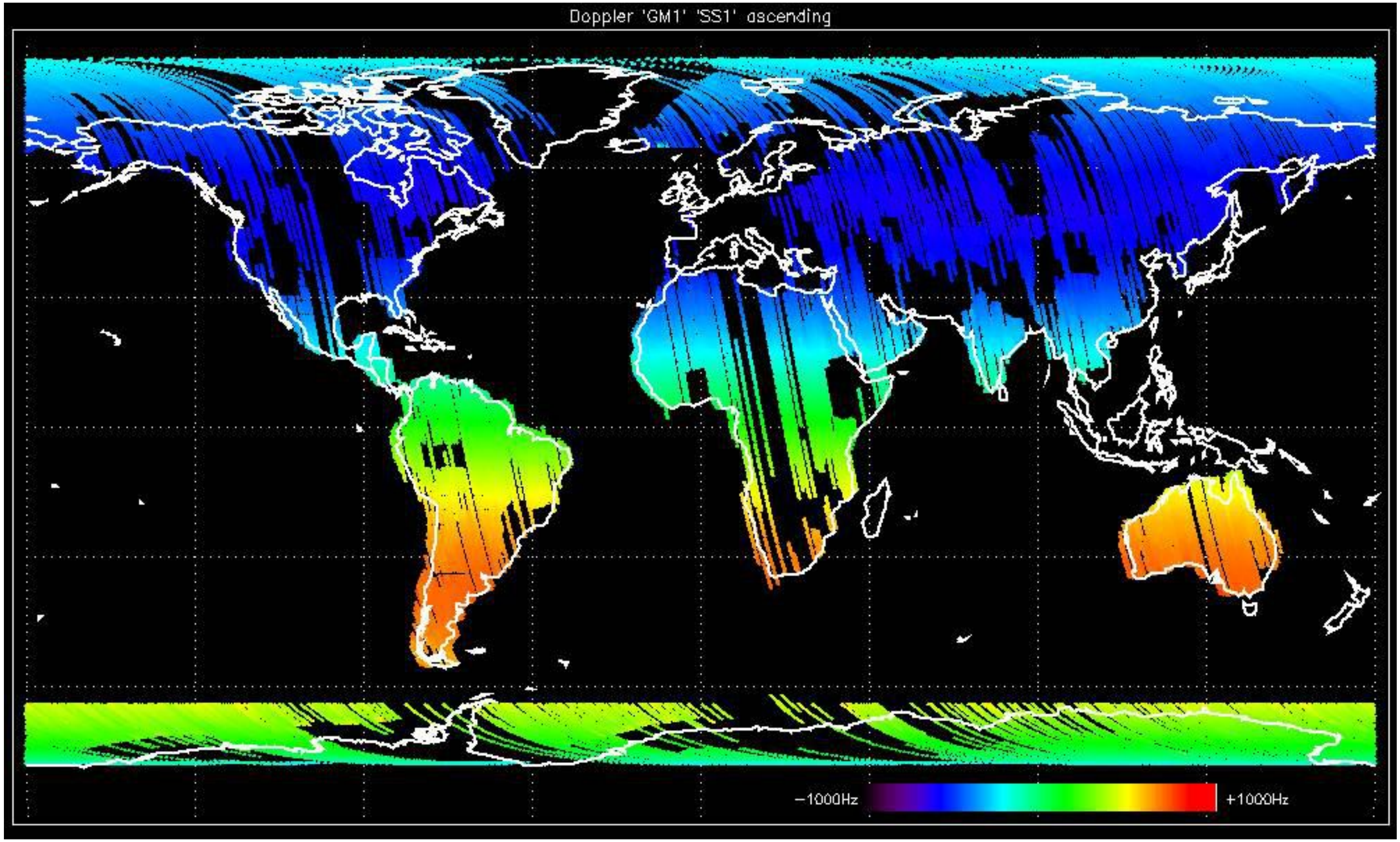
No anomalies observed.

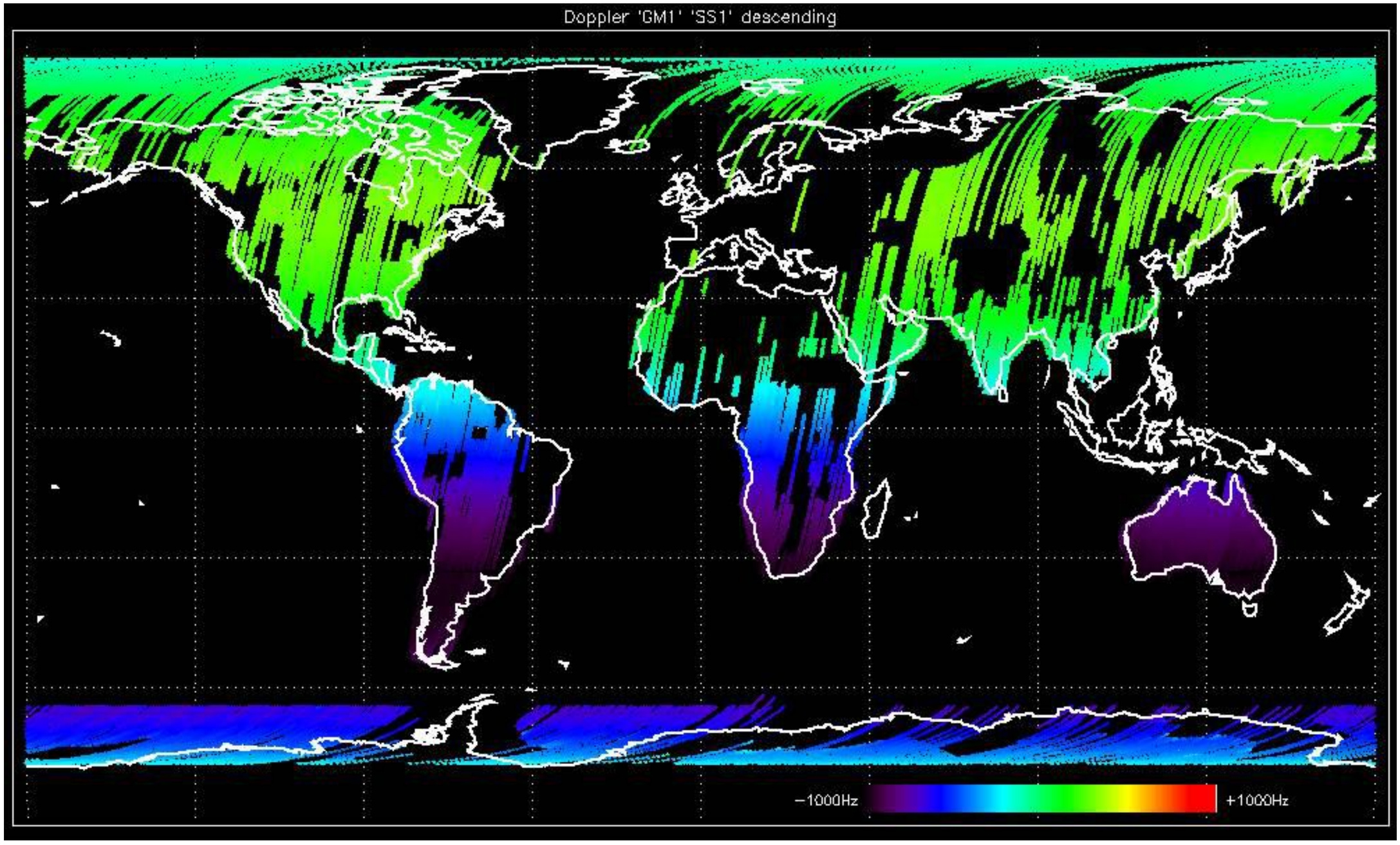

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

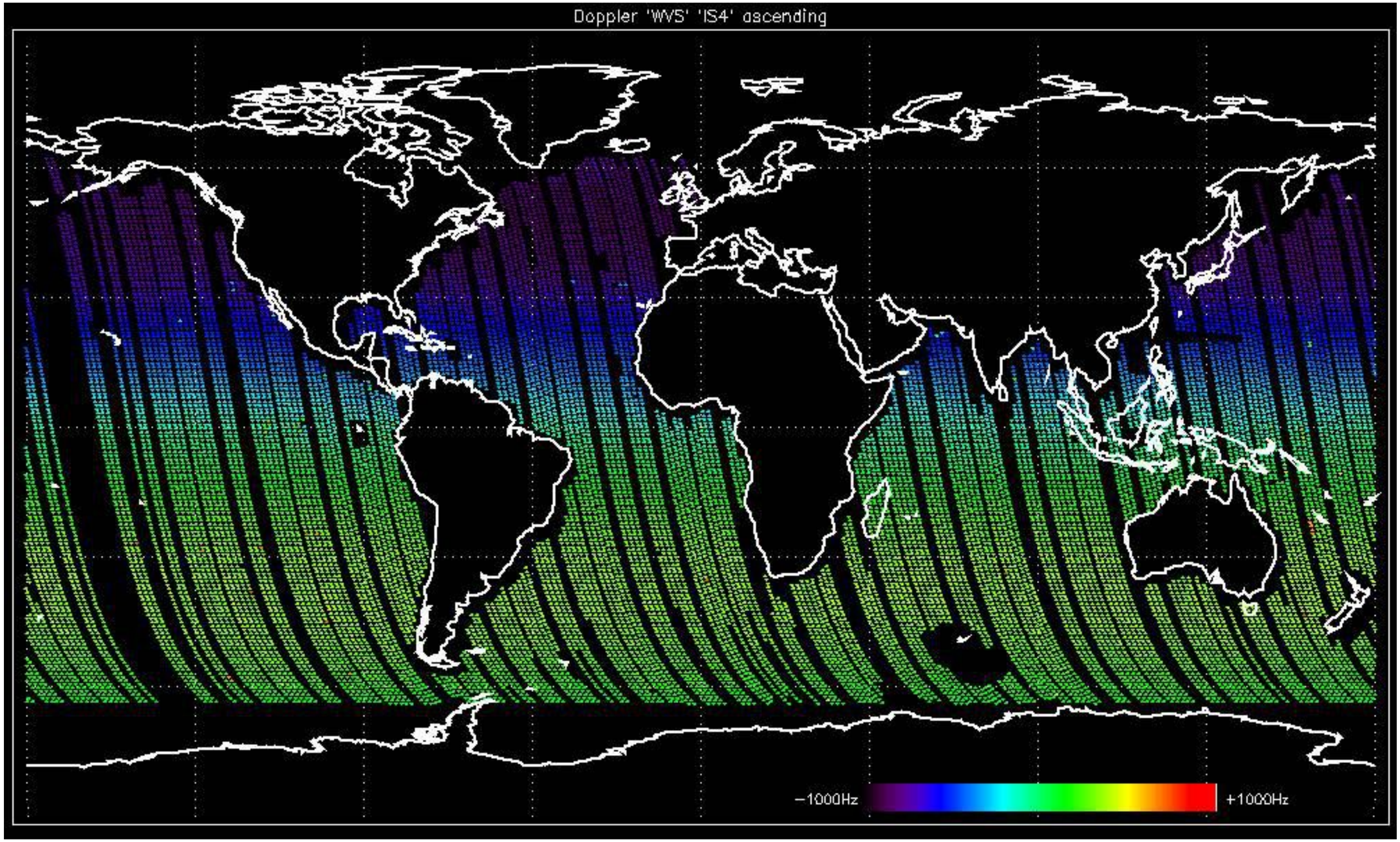

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

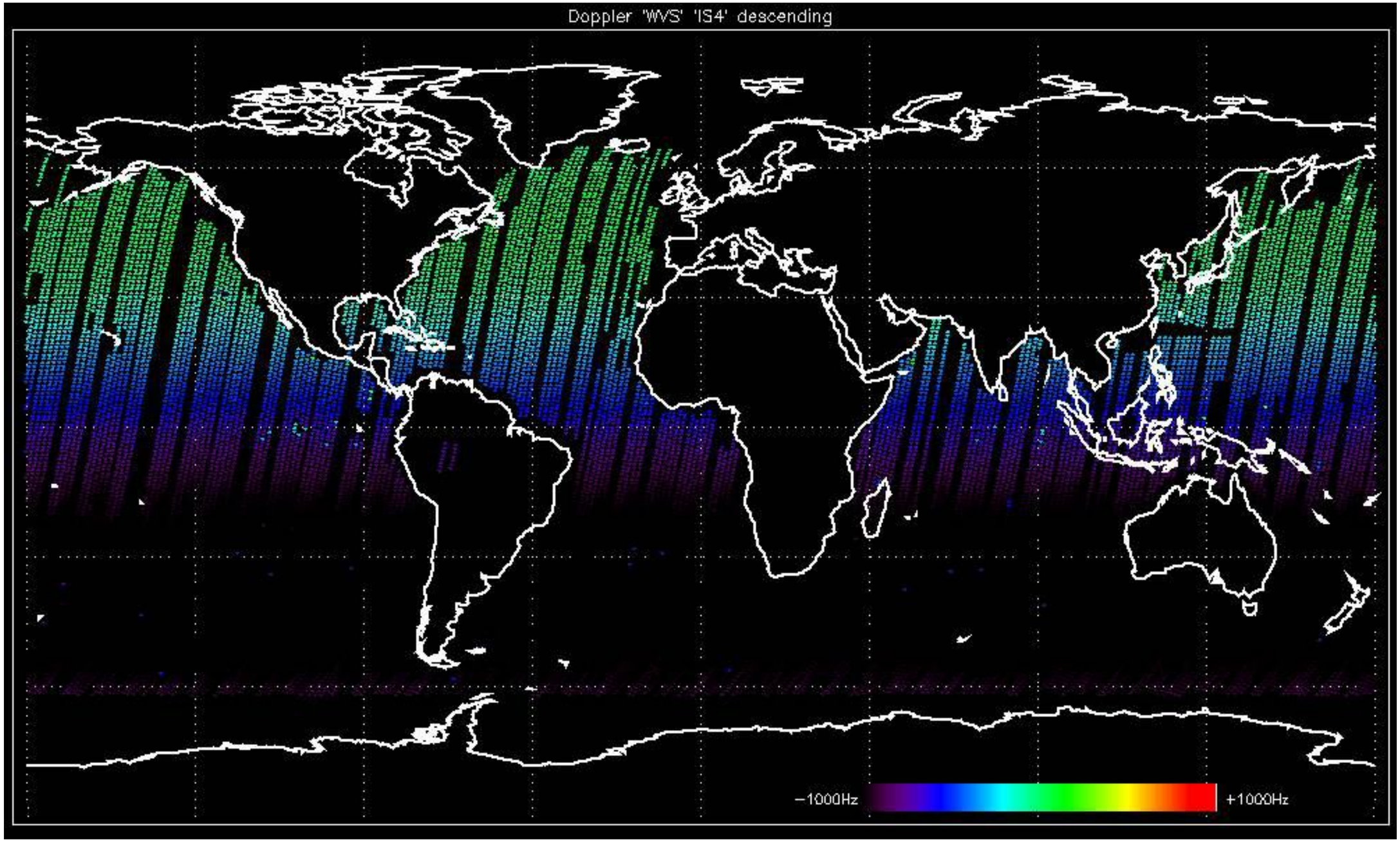
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

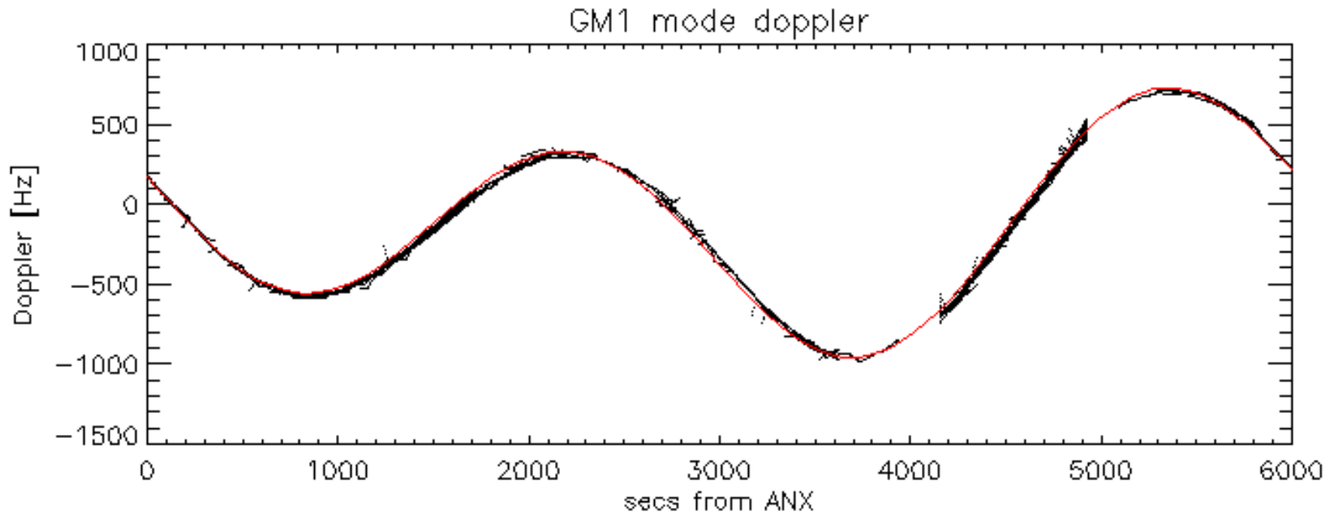
Preliminary report.The data is not yet controled

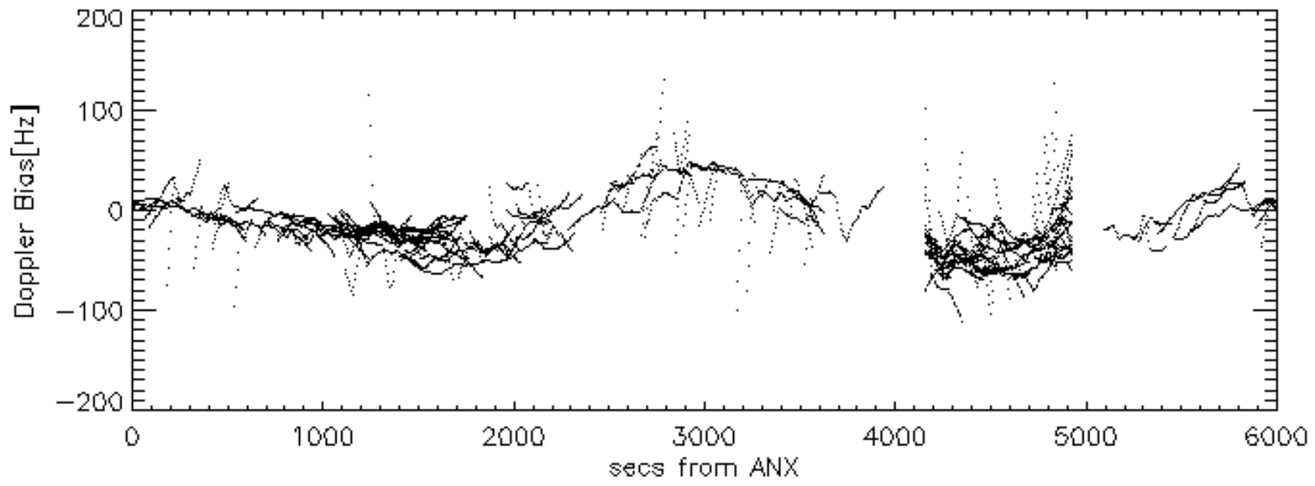

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

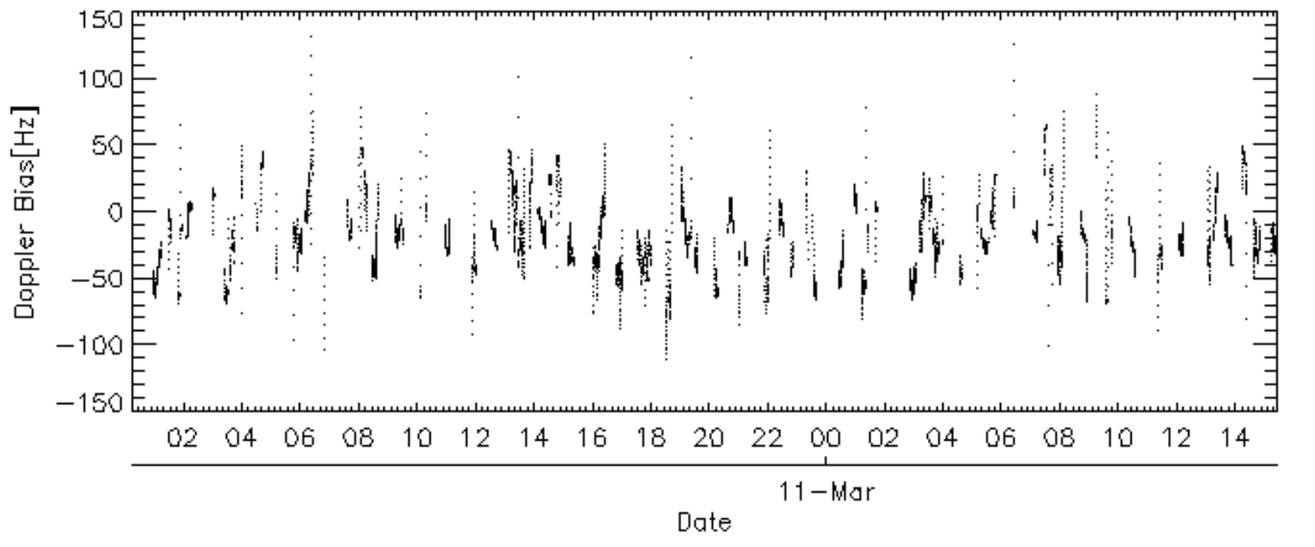

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

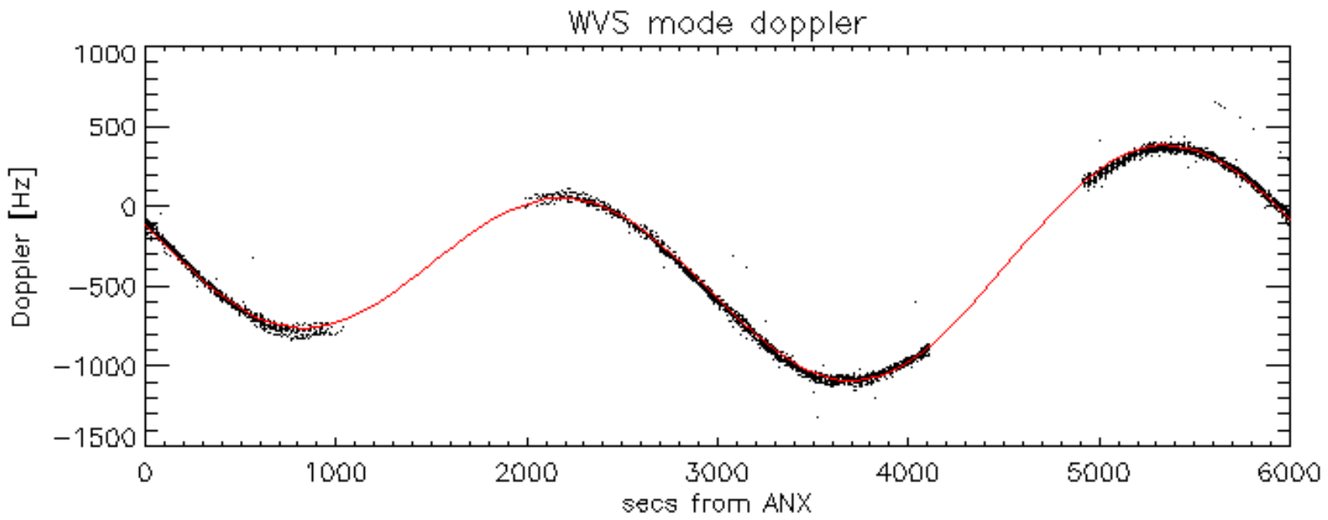

Doppler 'WVS' 'IS4' ascending
−1000Hz
+1000Hz

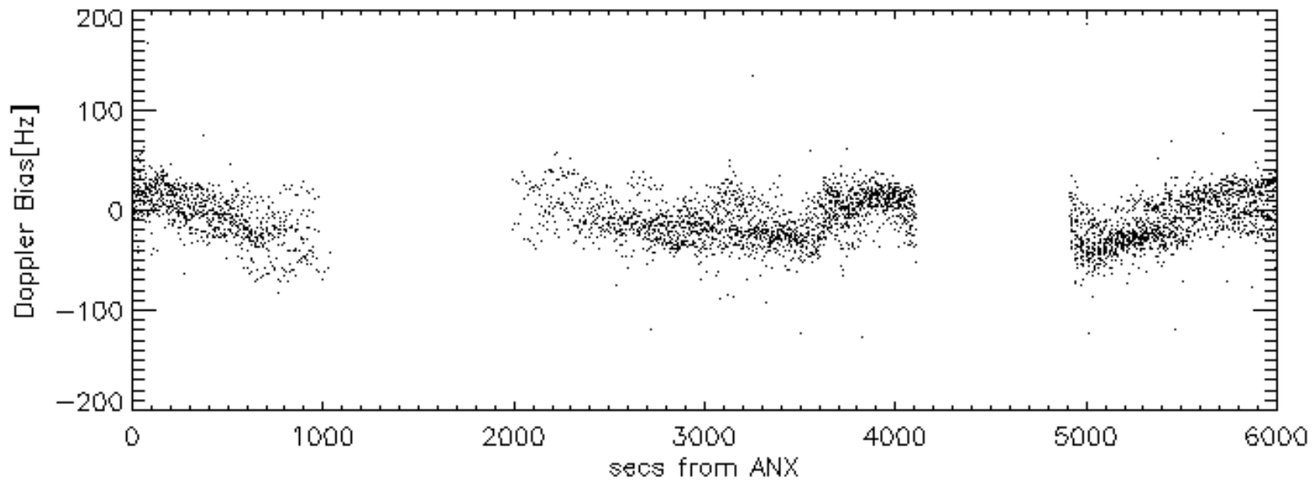

Doppler 'WVS' 'IS4' descending
−1000Hz
+1000Hz

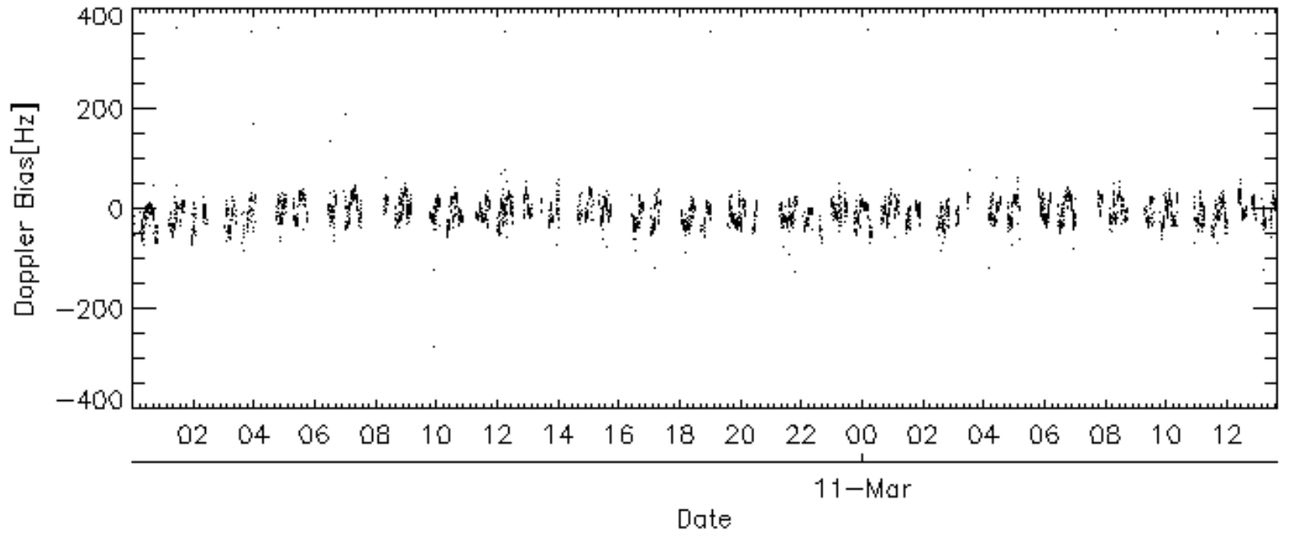

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

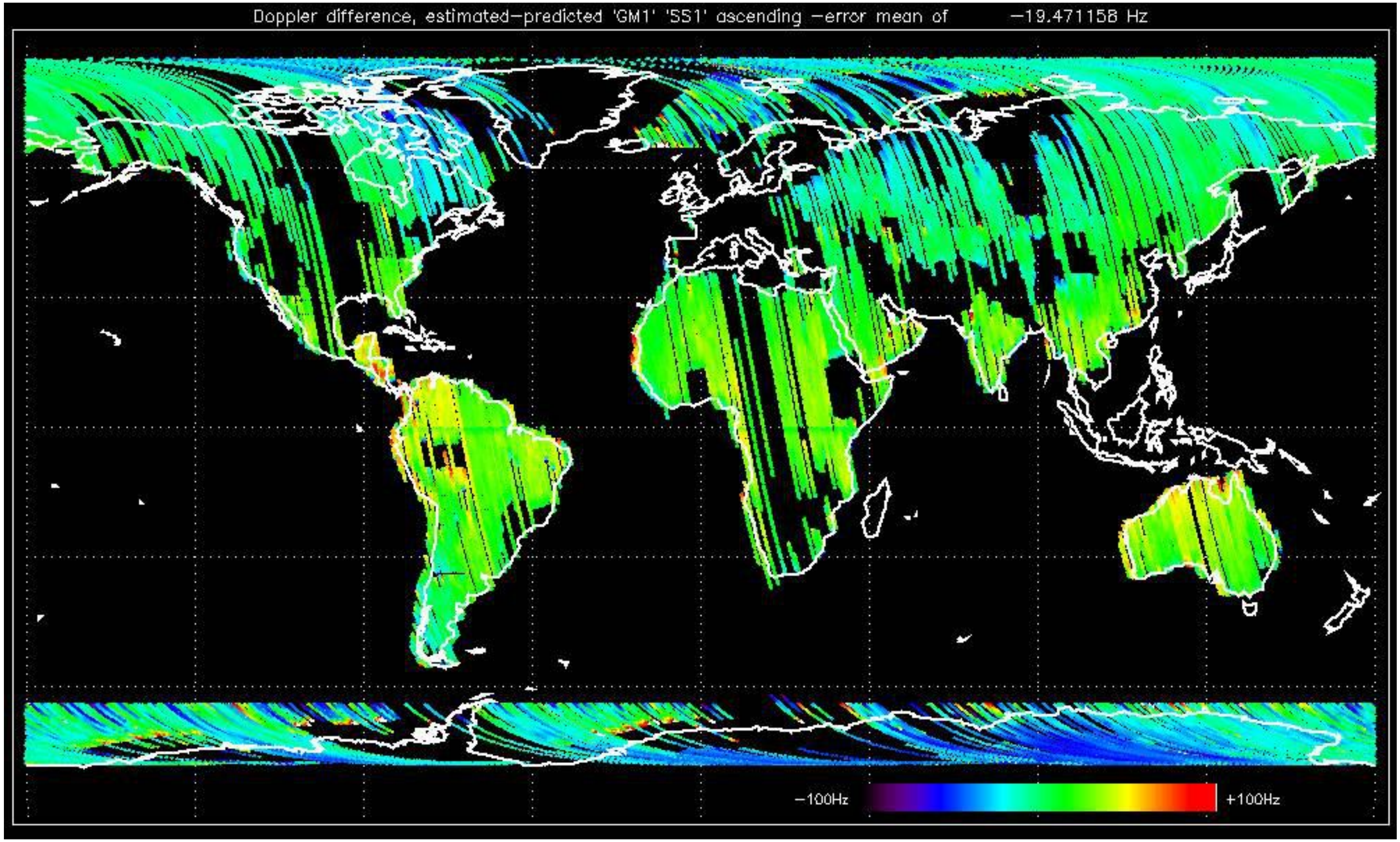

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

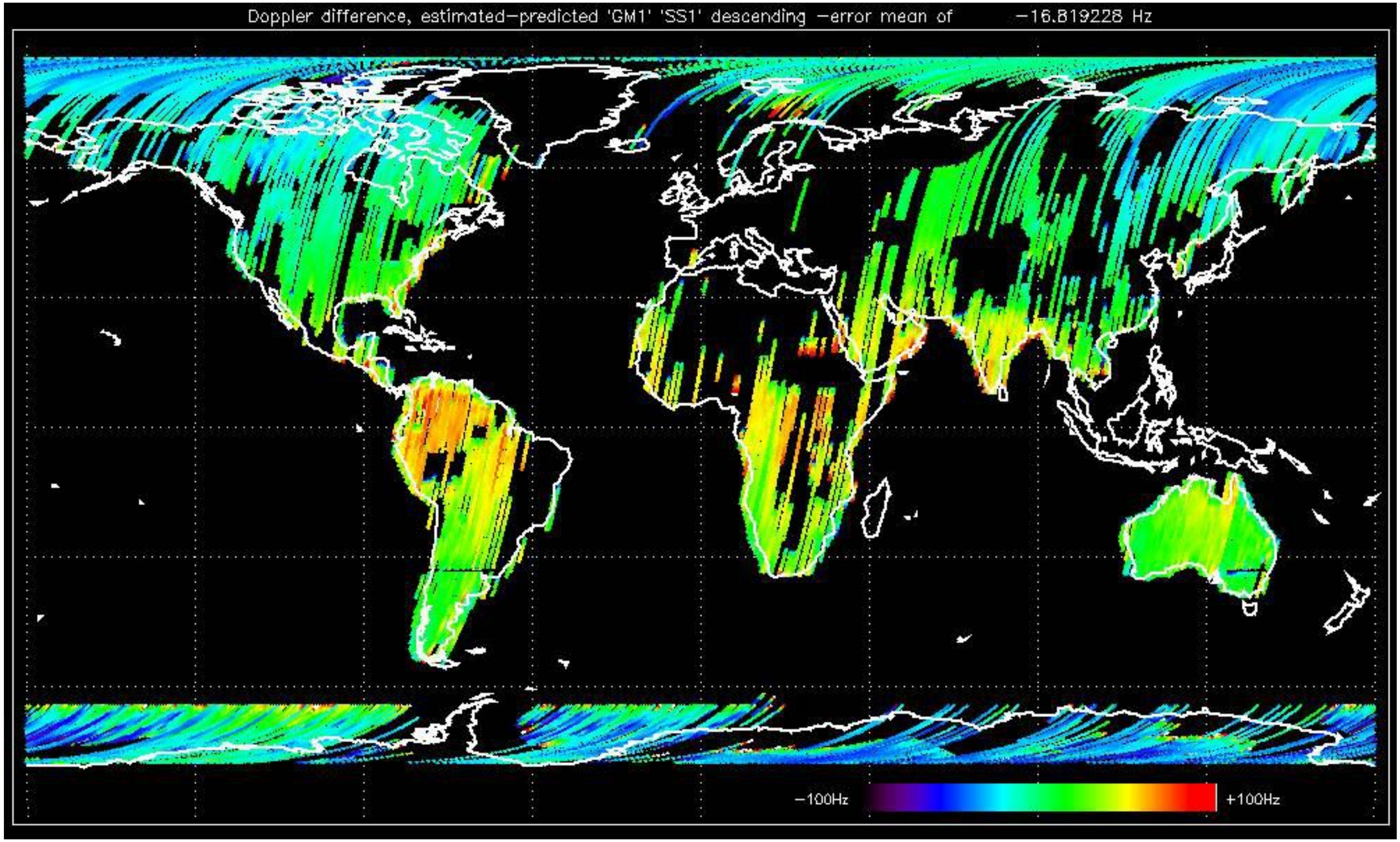

Doppler Bias[Hz]
150
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
10
12
14
11−Mar
Date

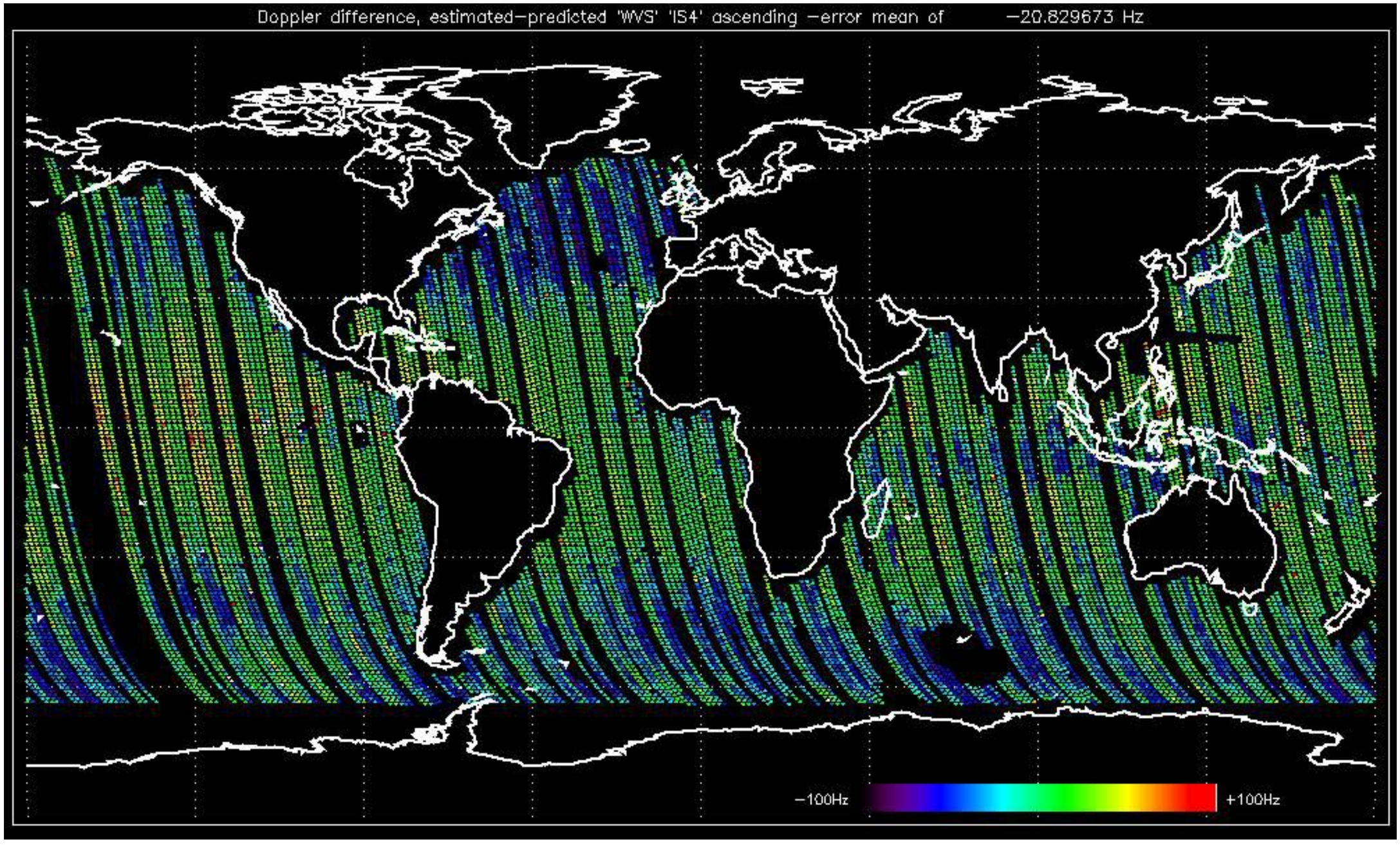

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

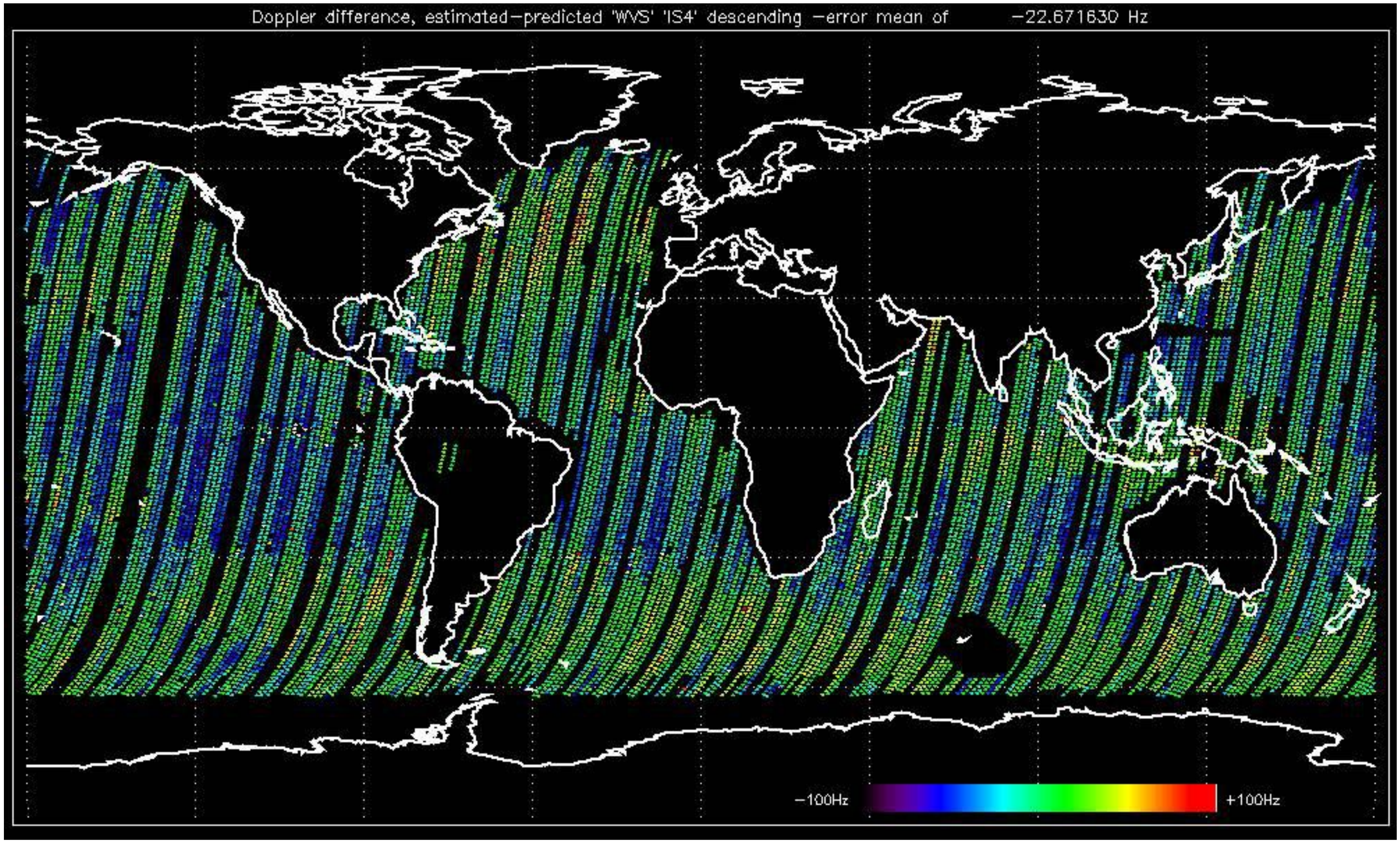

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −19.471158 Hz
−100Hz
+100Hz

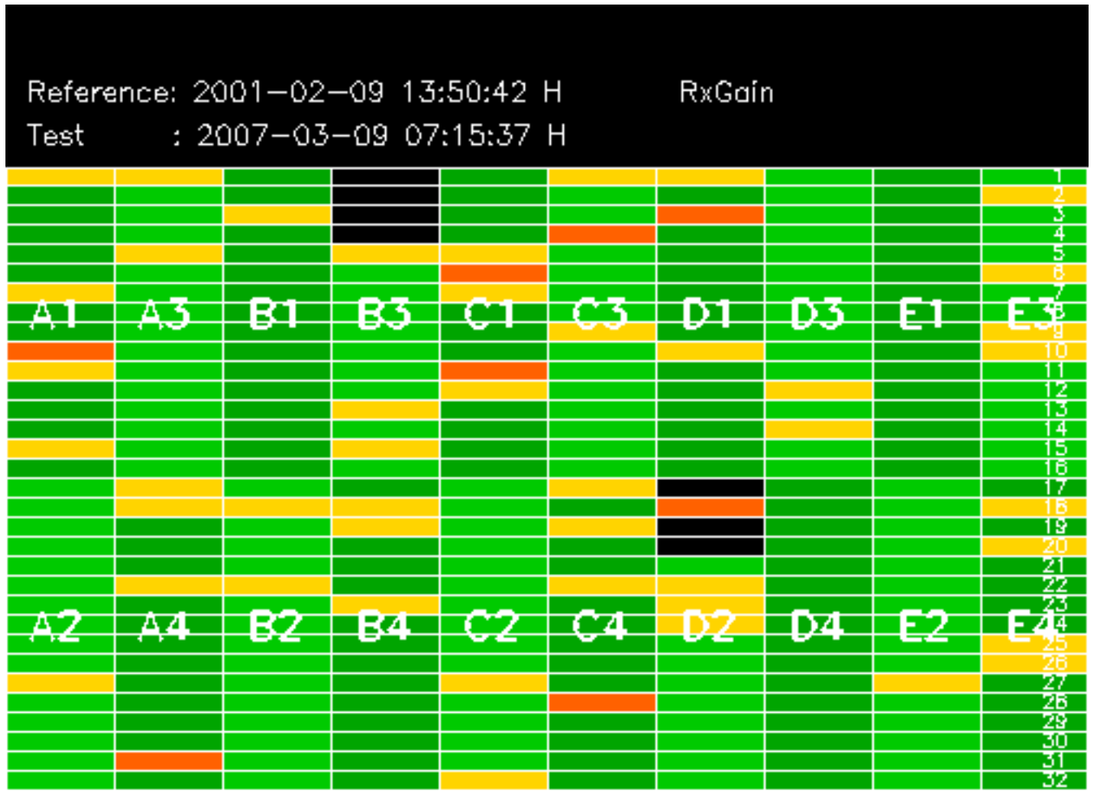

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −16.819228 Hz
−100Hz
+100Hz

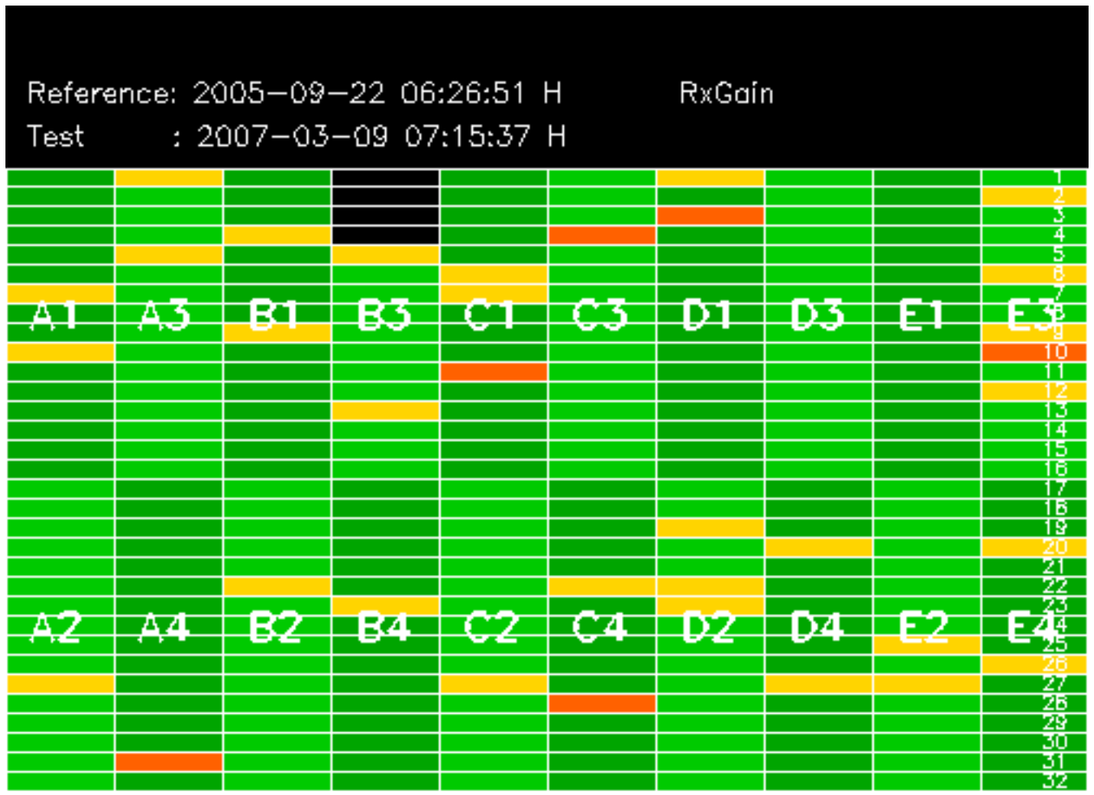

Doppler difference, estimated−predicted 'WVS' 'IS4' ascending −error mean of −20.829673 Hz
−100Hz
+100Hz

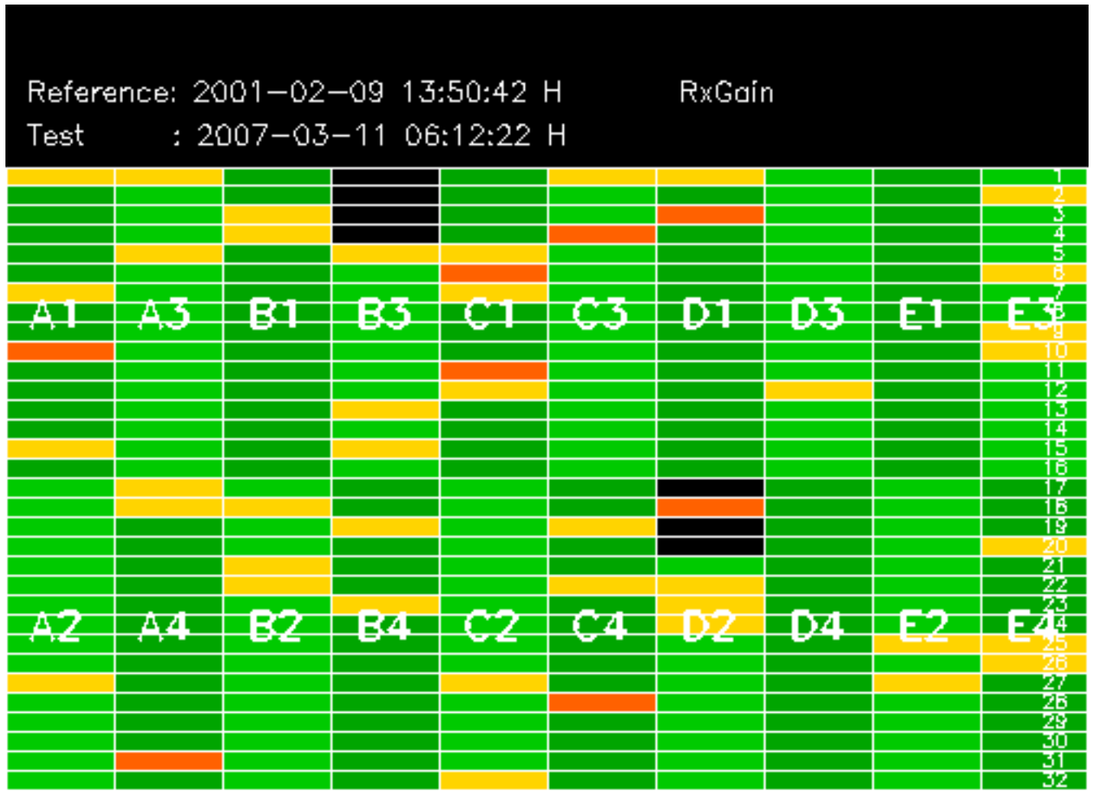

Doppler difference, estimated−predicted 'WVS' 'IS4' descending −error mean of −22.671630 Hz
−100Hz
+100Hz

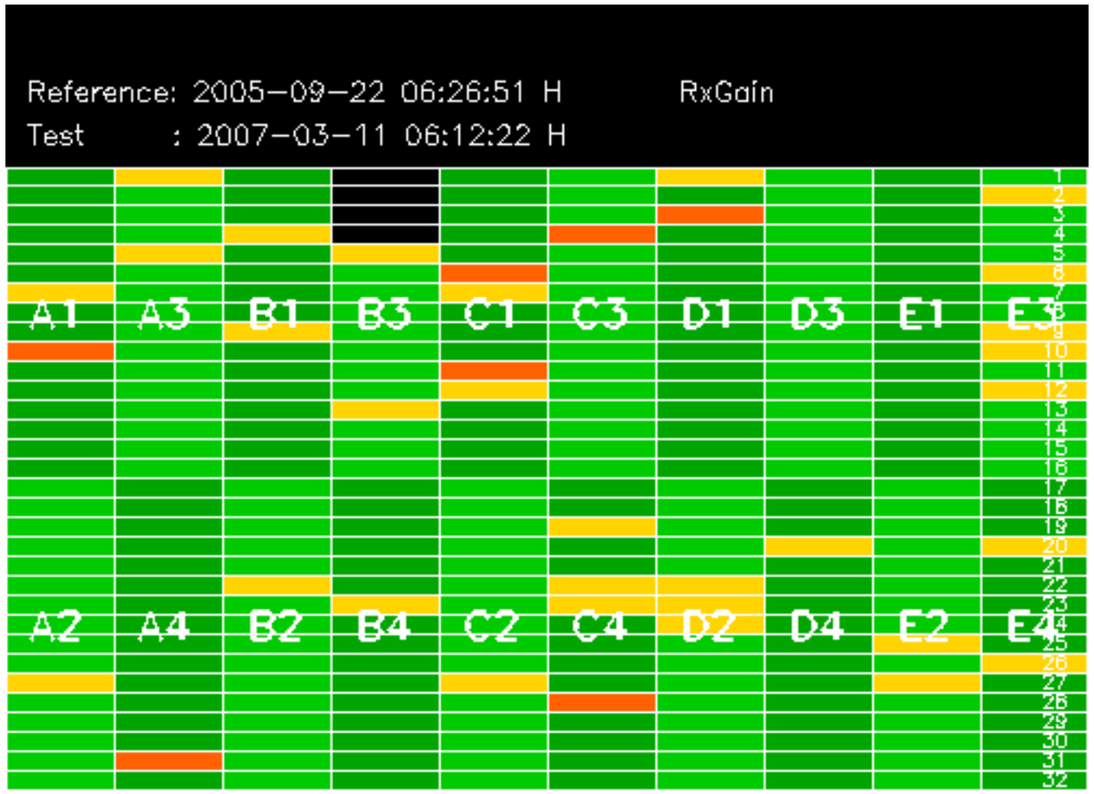
No anomalies observed on available MS products:

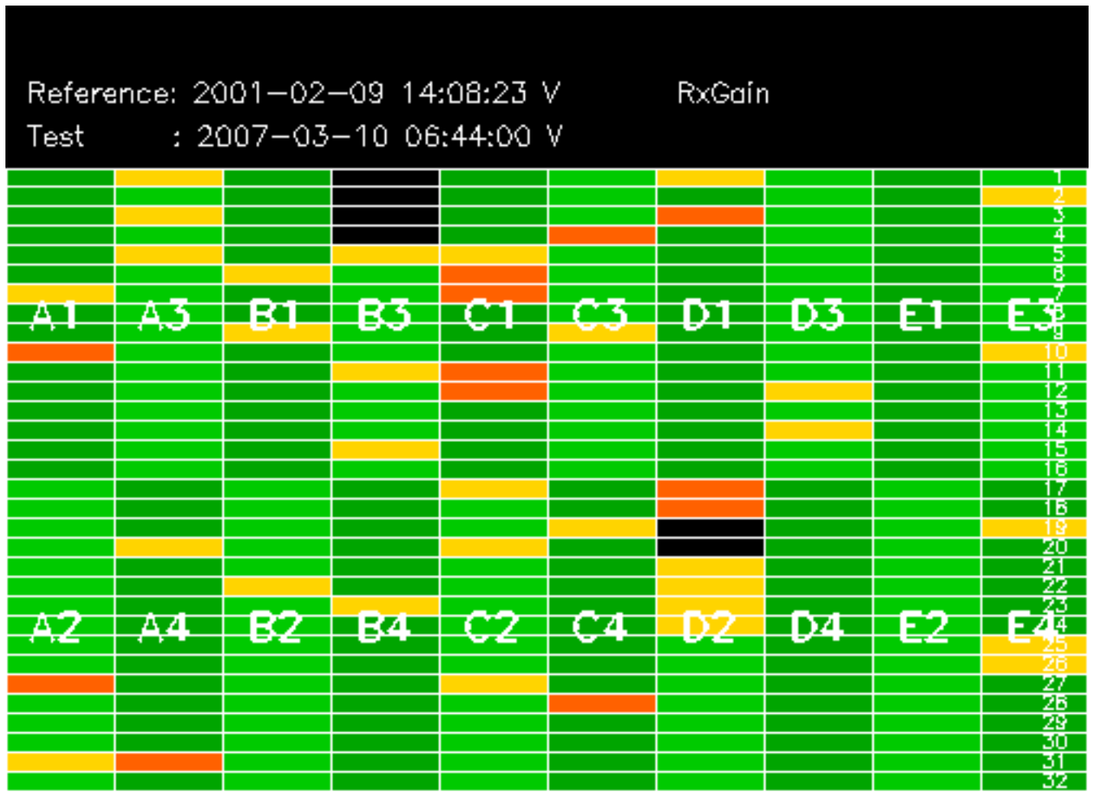
No anomalies observed.

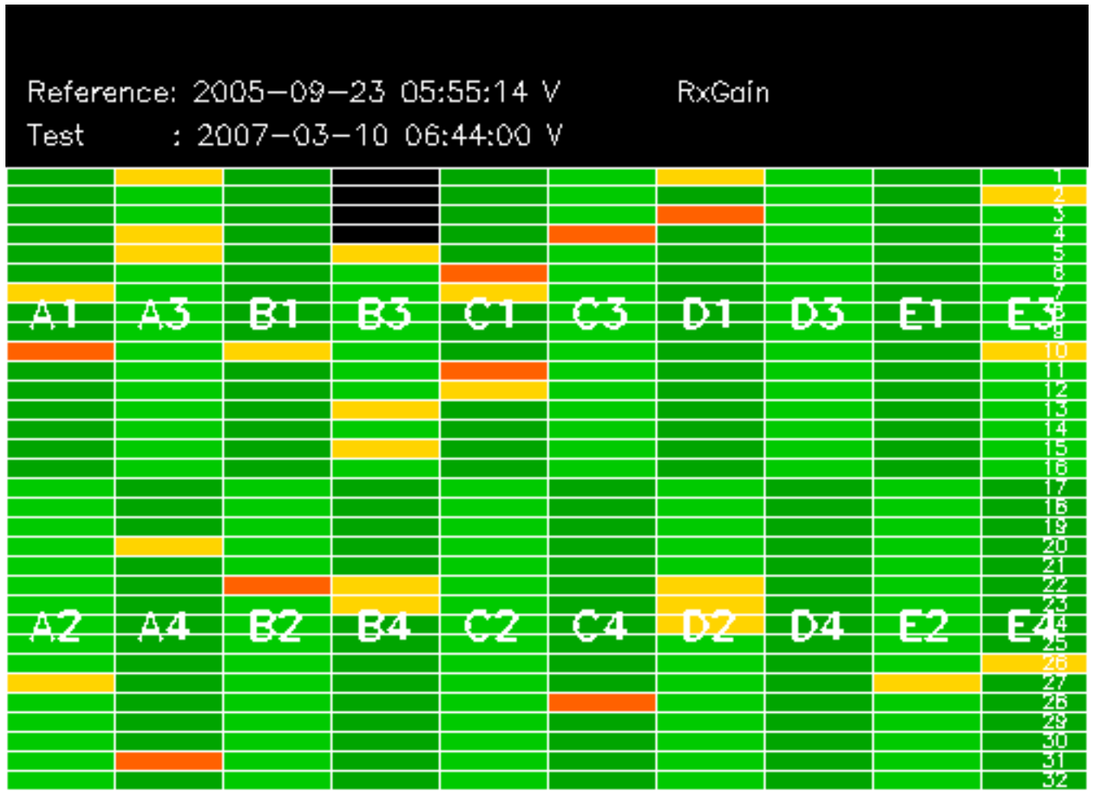

Reference: 2001-02-09 13:50:42 H
Test : 2007-03-09 07:15:37 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-03-09 07:15:37 H
RxGain
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
Test : 2007-03-11 06:12:22 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
RxGain
Test : 2007-03-11 06:12:22 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 : 2007-03-10 06:44:00 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 : 2007-03-10 06:44:00 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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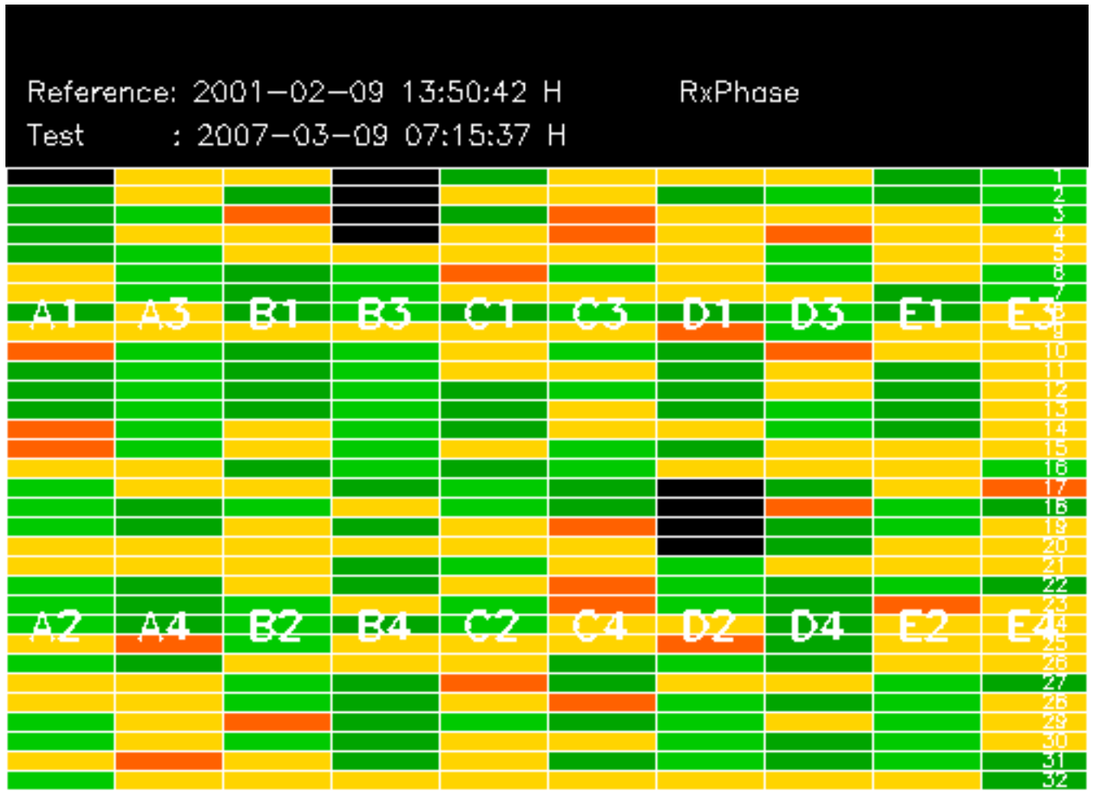
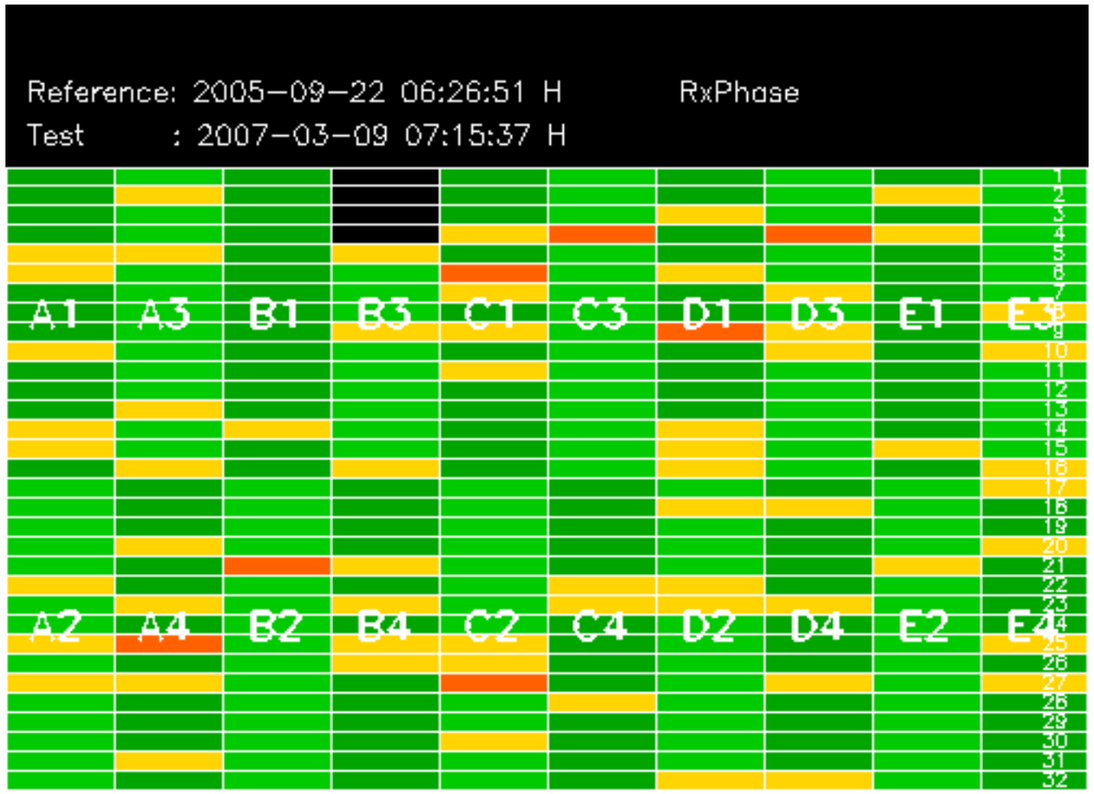

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2007-03-09 07:15:37 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
RxPhase
Test : 2007-03-09 07:15:37 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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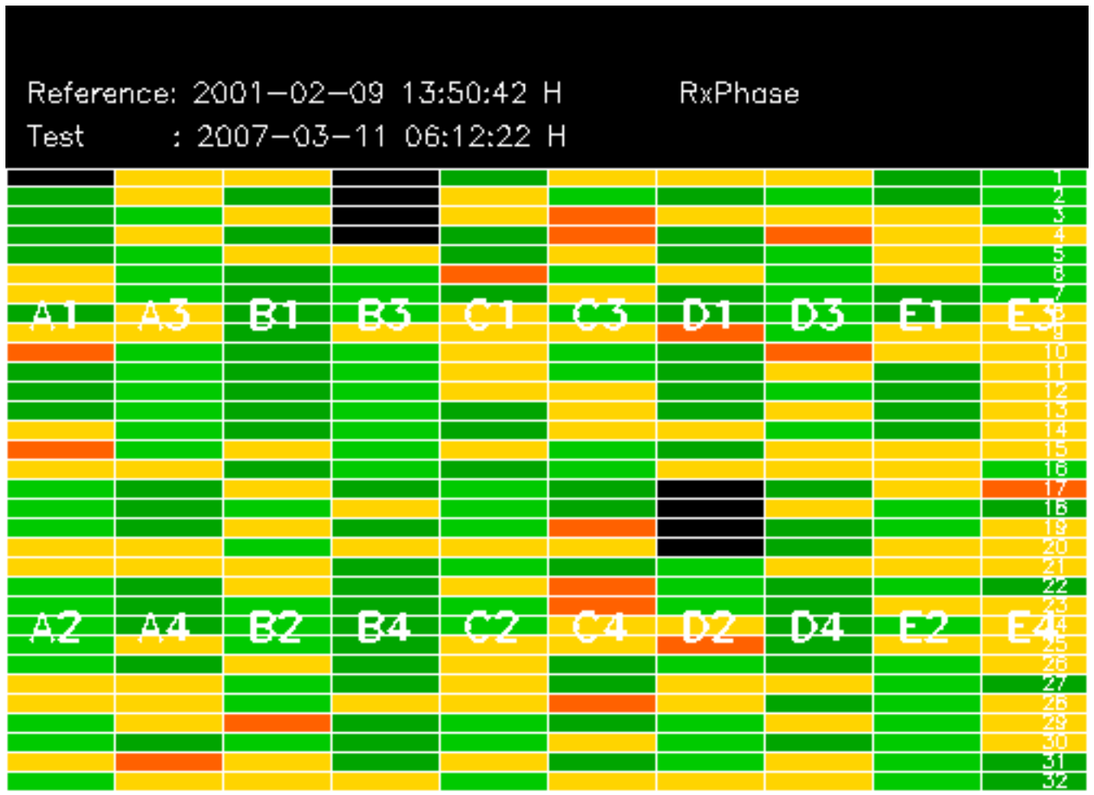
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2007-03-11 06:12:22 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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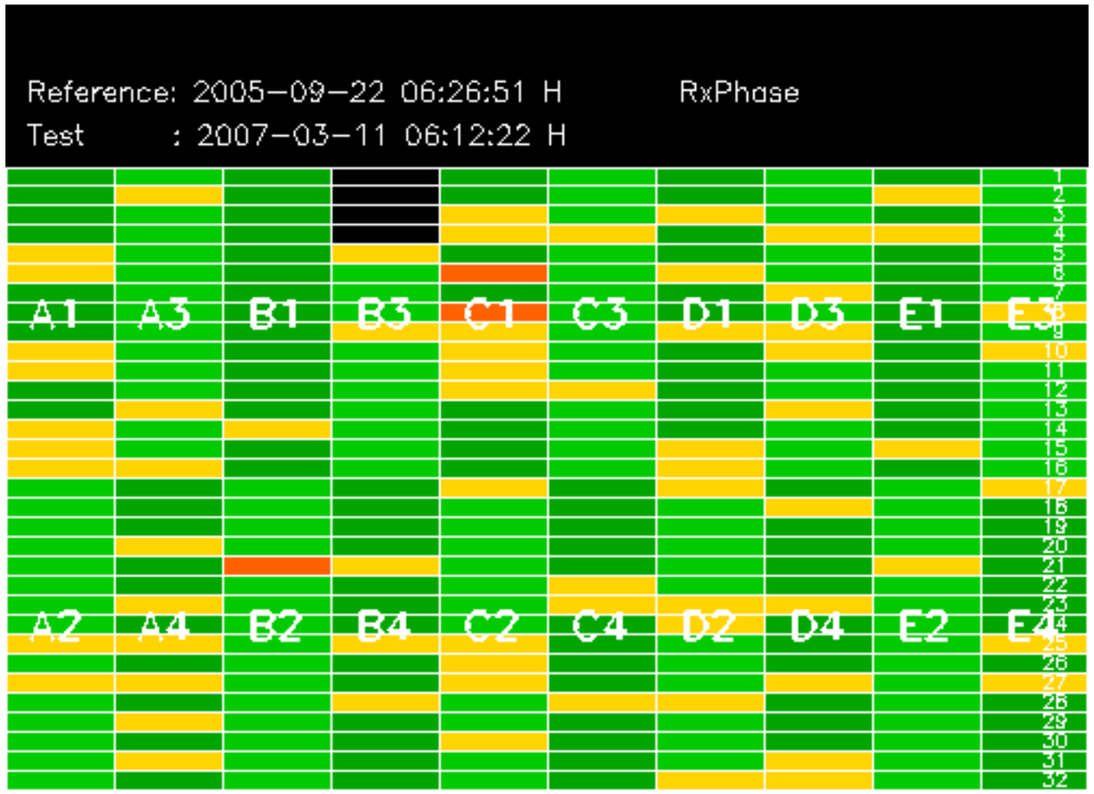
Reference: 2005-09-22 06:26:51 H
Test : 2007-03-11 06:12:22 H
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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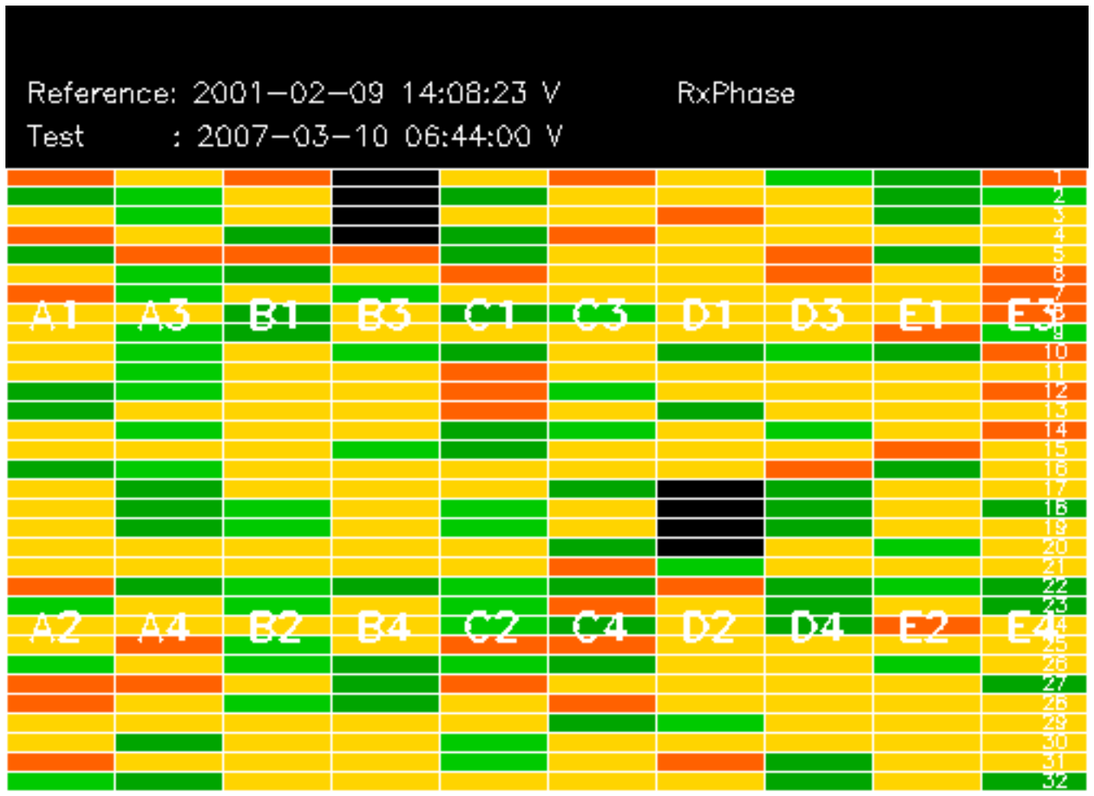
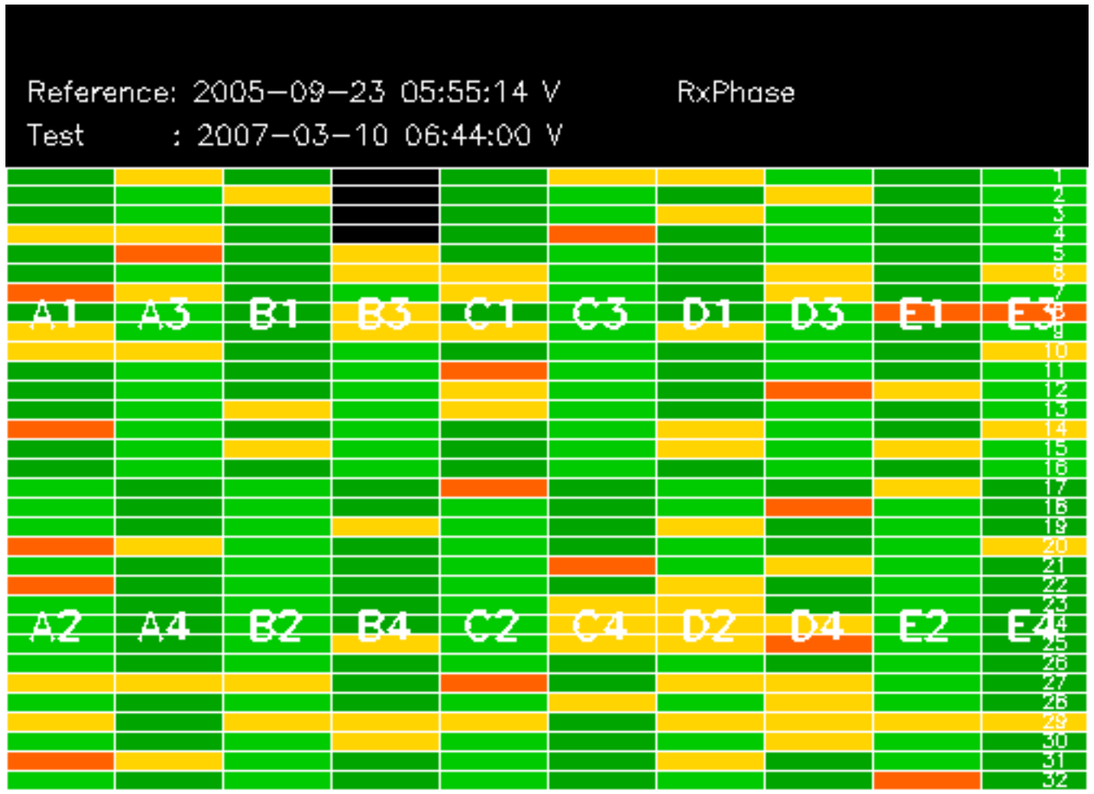

Reference: 2001-02-09 14:08:23 V
Test : 2007-03-10 06:44:00 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
RxPhase
Test : 2007-03-10 06:44:00 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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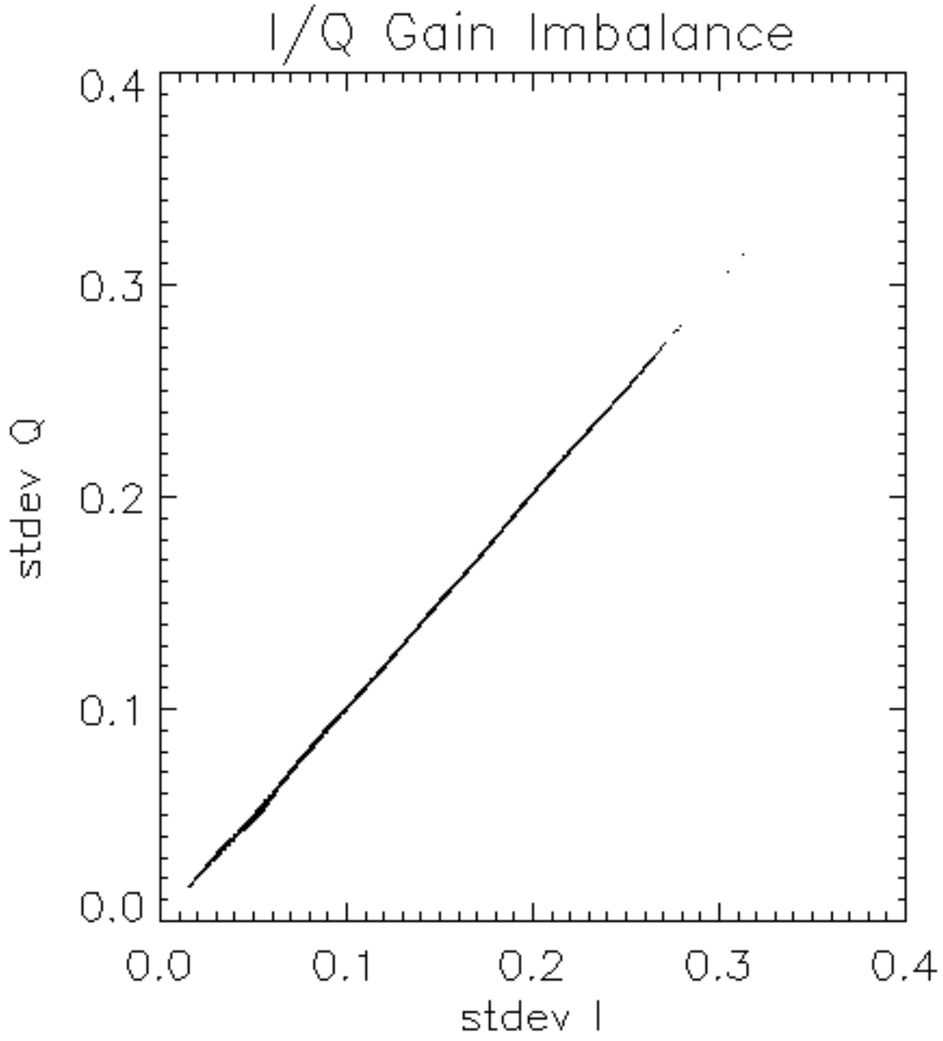
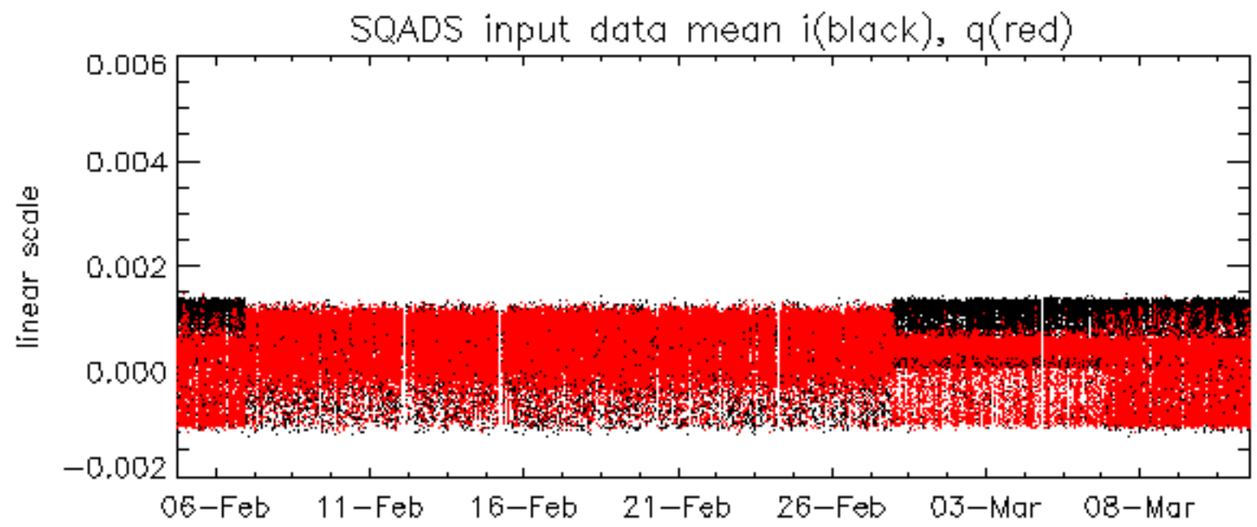
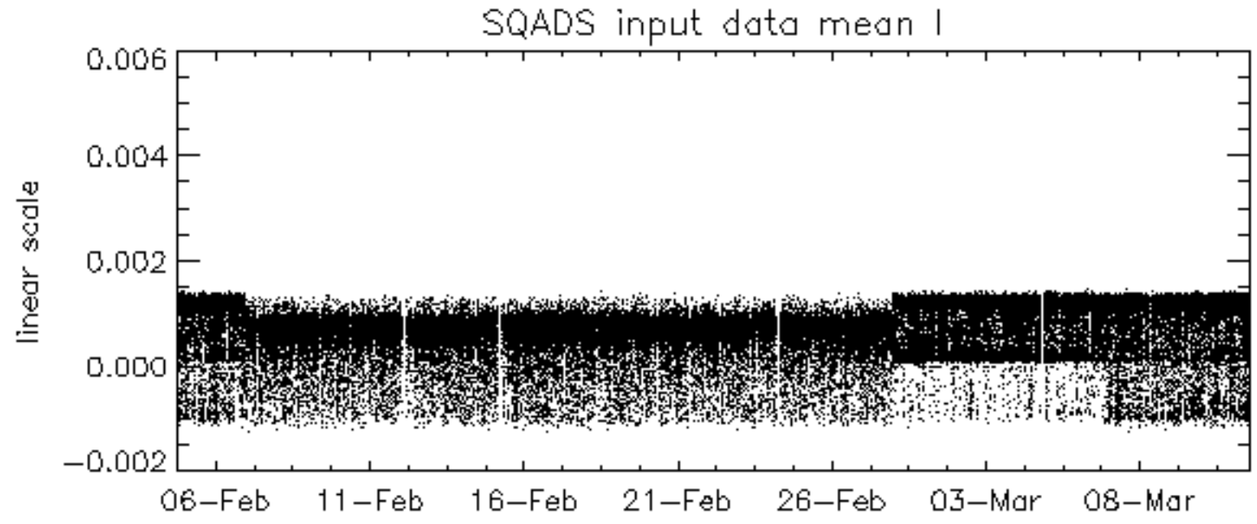
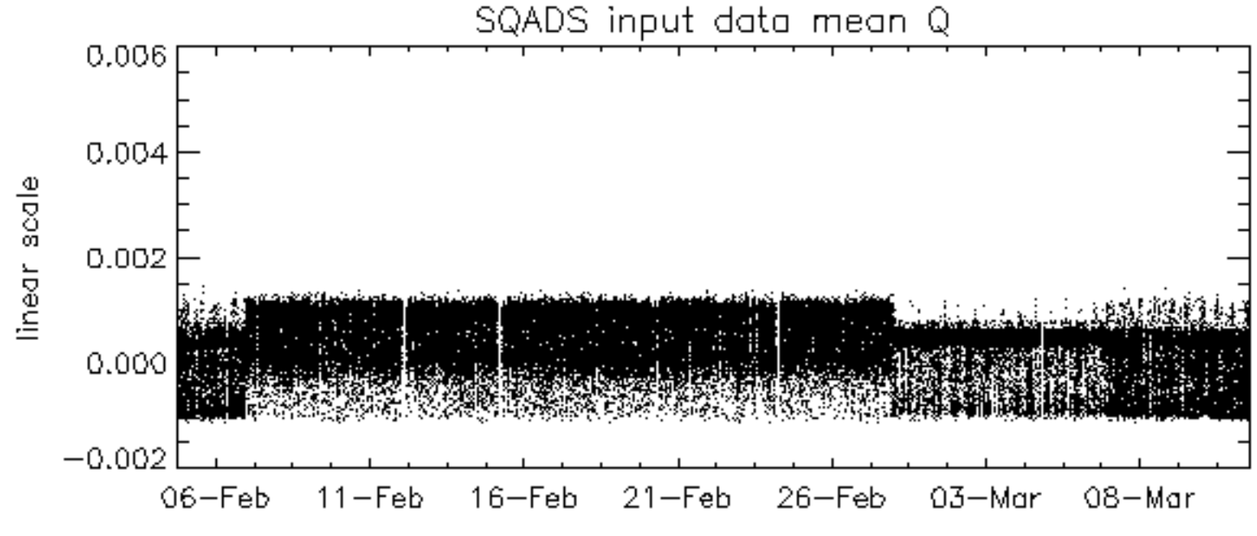
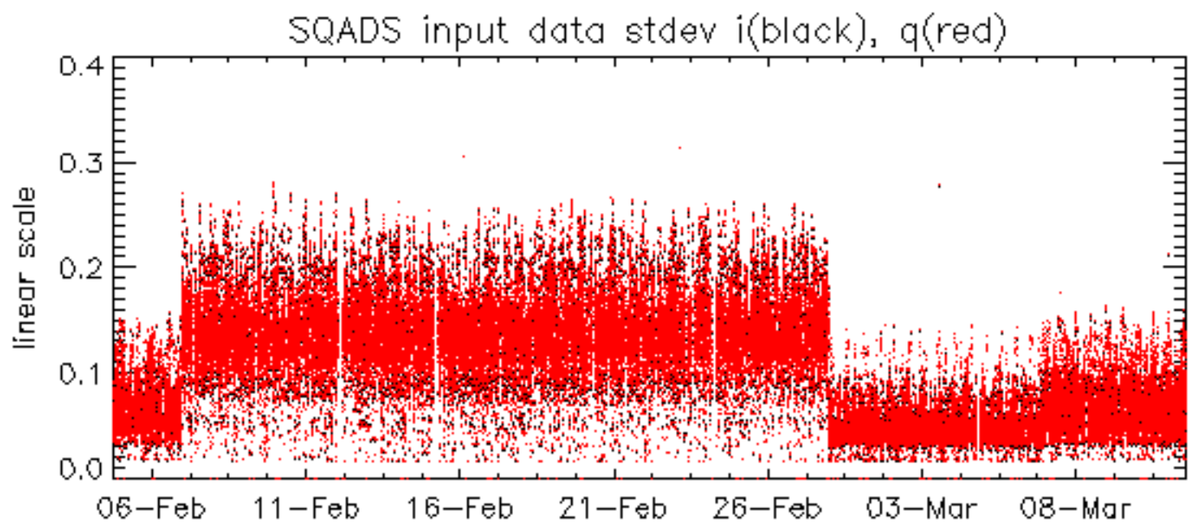
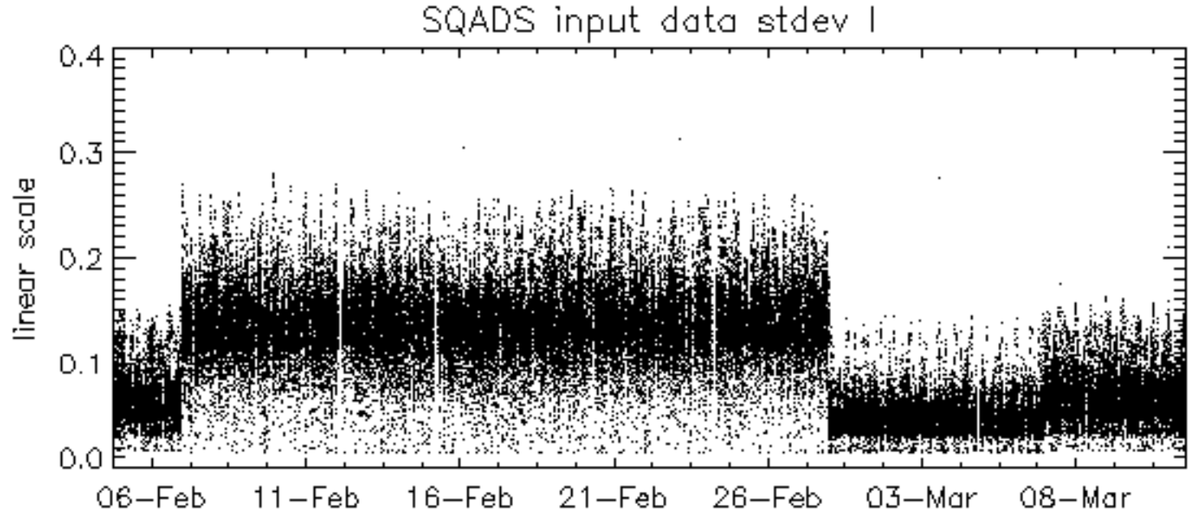

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

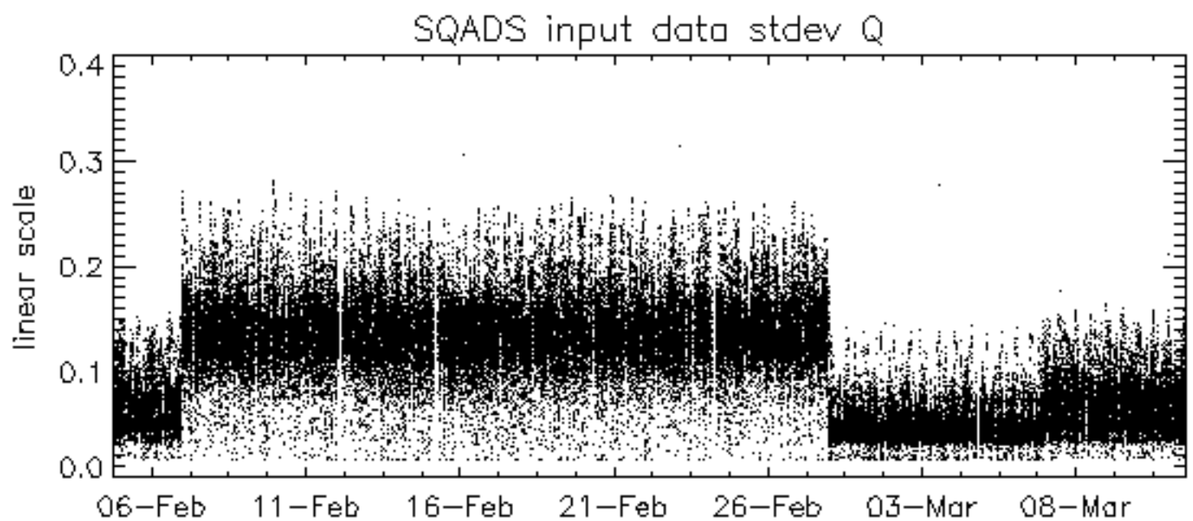

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Feb
11−Feb
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar

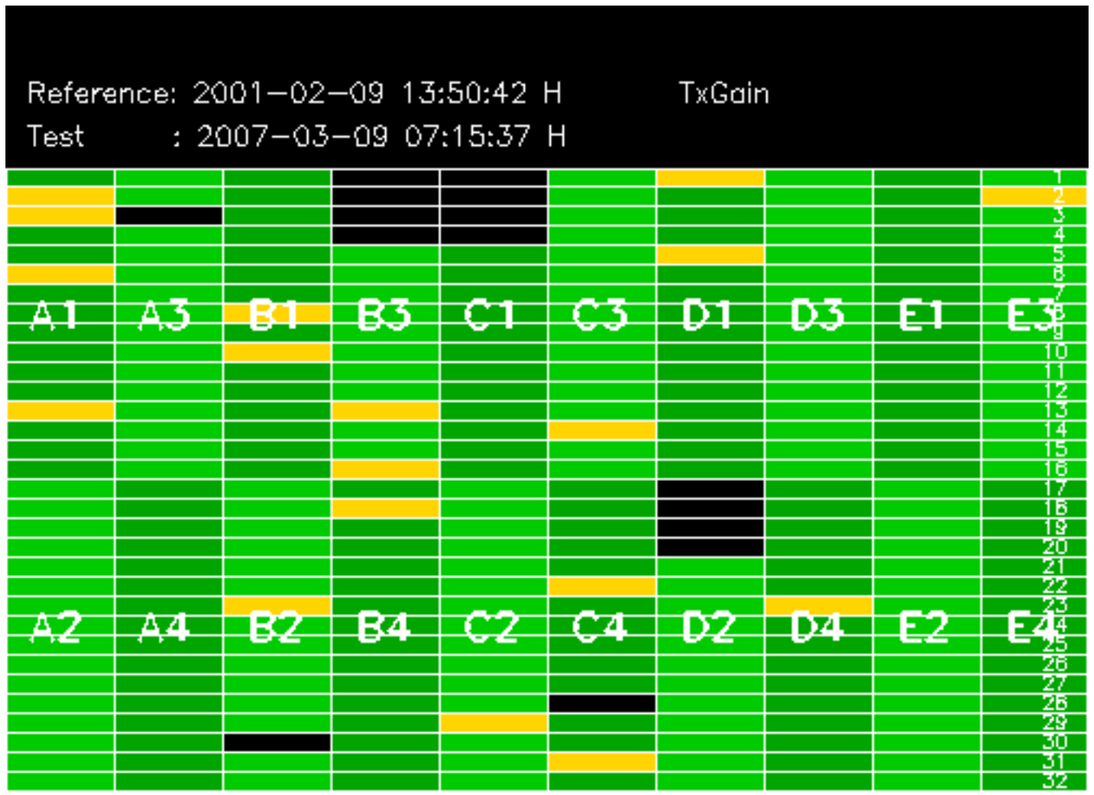

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Feb
11−Feb
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar

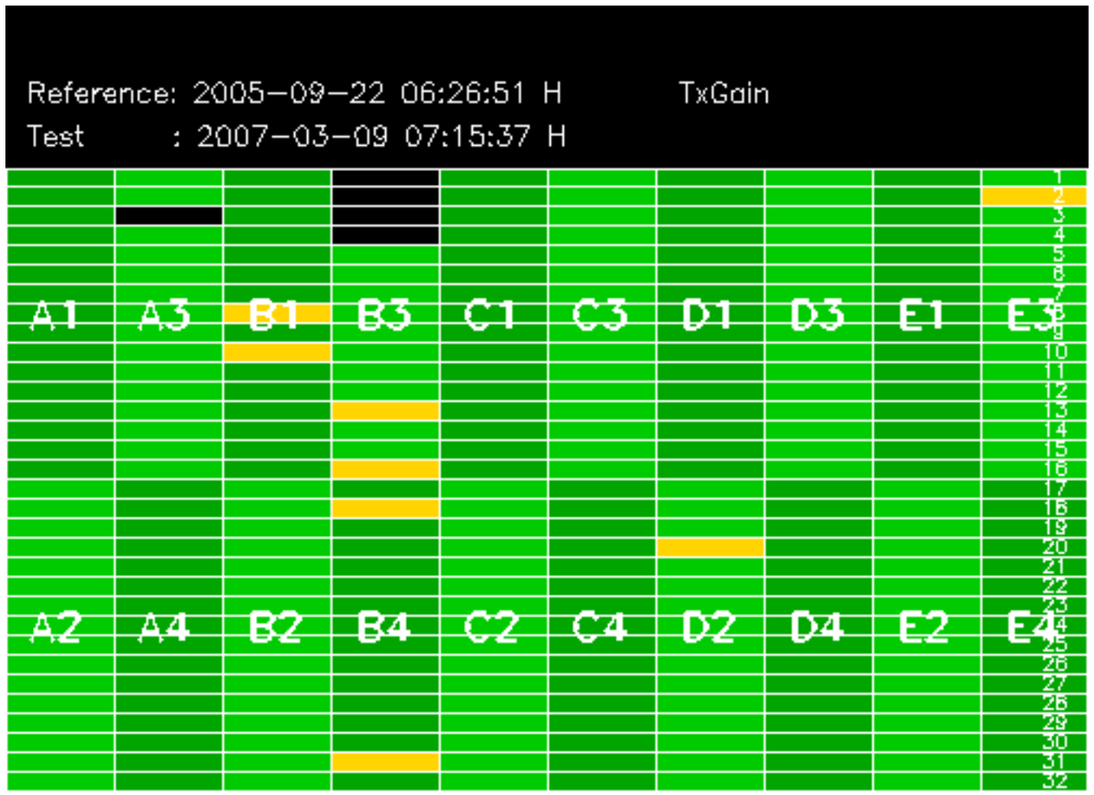

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Feb
11−Feb
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
06–Feb
11–Feb
16–Feb
21–Feb
26–Feb
03–Mar
08–Mar


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
06–Feb
11–Feb
16–Feb
21–Feb
26–Feb
03–Mar
08–Mar


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
06–Feb
11–Feb
16–Feb
21–Feb
26–Feb
03–Mar
08–Mar


Reference: 2001-02-09 13:50:42 H
Test : 2007-03-09 07:15:37 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 : 2007-03-09 07:15:37 H
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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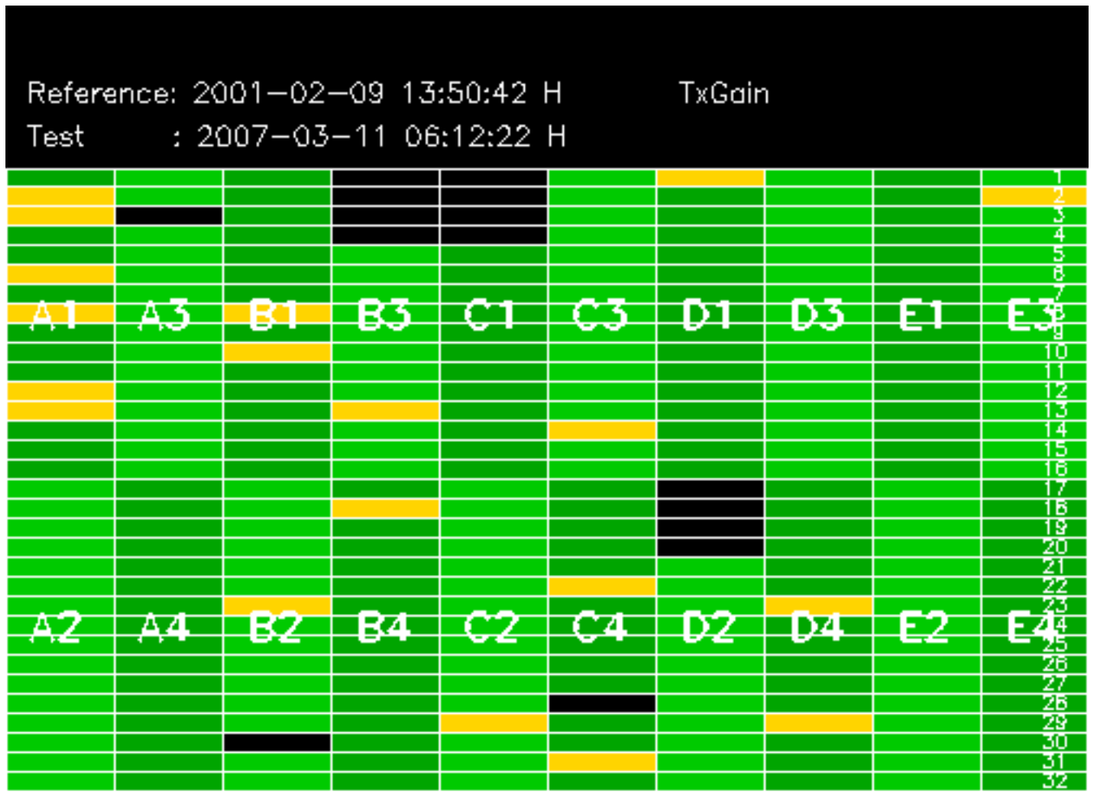
Reference: 2001-02-09 13:50:42 H
Test : 2007-03-11 06:12:22 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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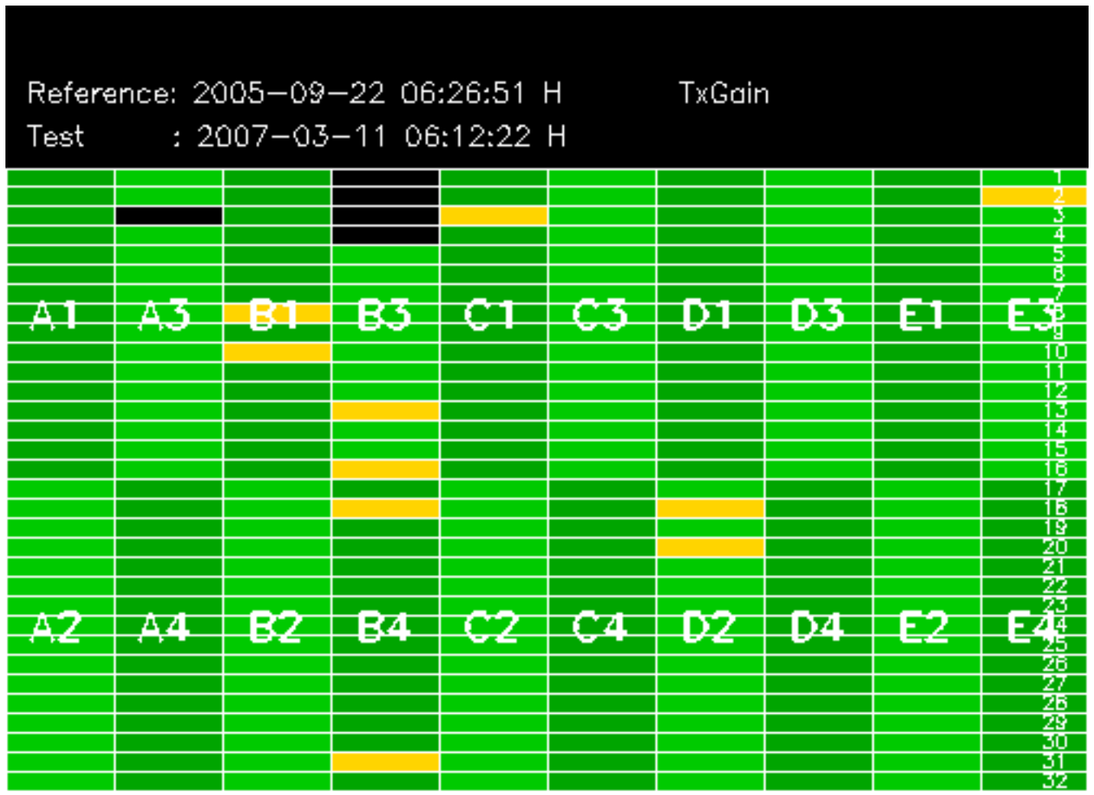
Reference: 2005-09-22 06:26:51 H
Test : 2007-03-11 06:12:22 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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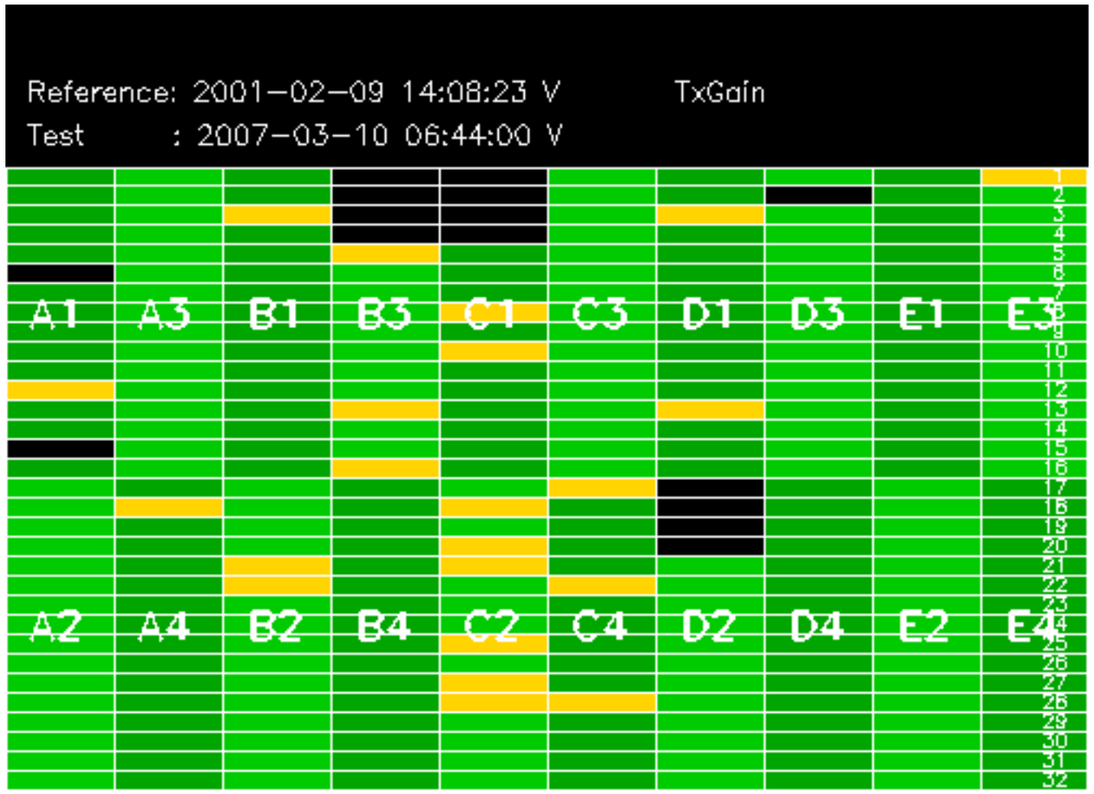
Reference: 2001-02-09 14:08:23 V
Test : 2007-03-10 06:44:00 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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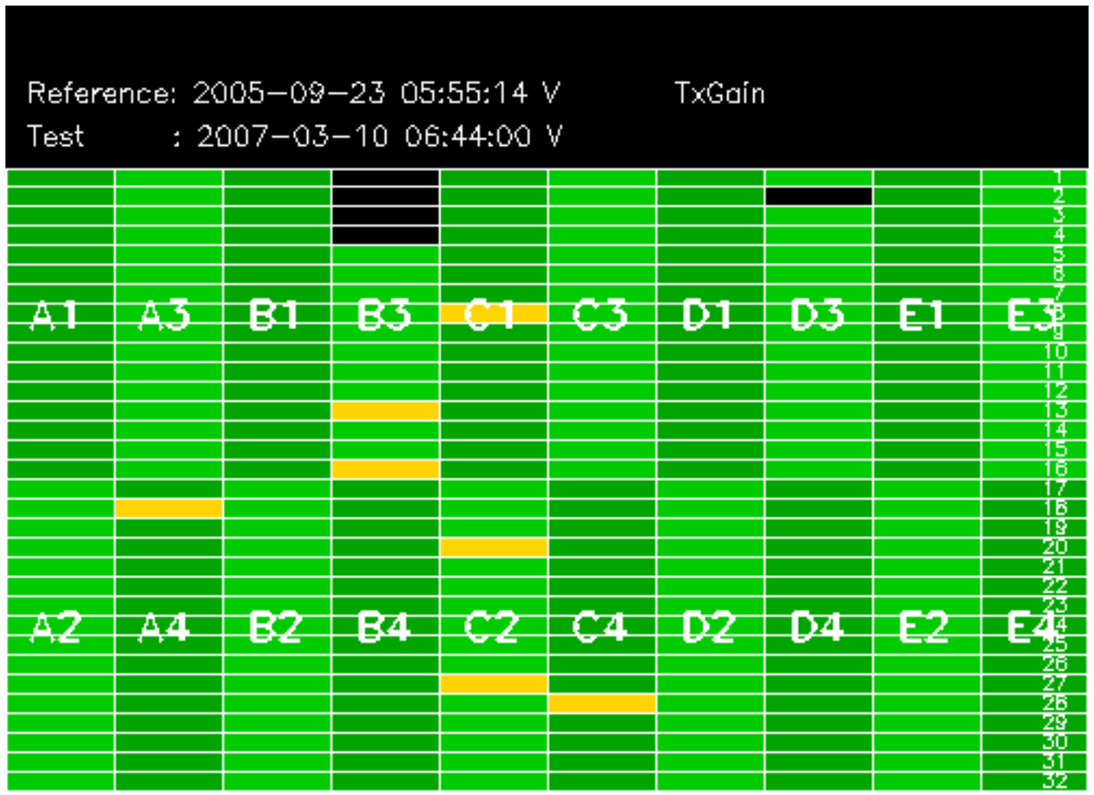
Reference: 2005-09-23 05:55:14 V
Test : 2007-03-10 06:44:00 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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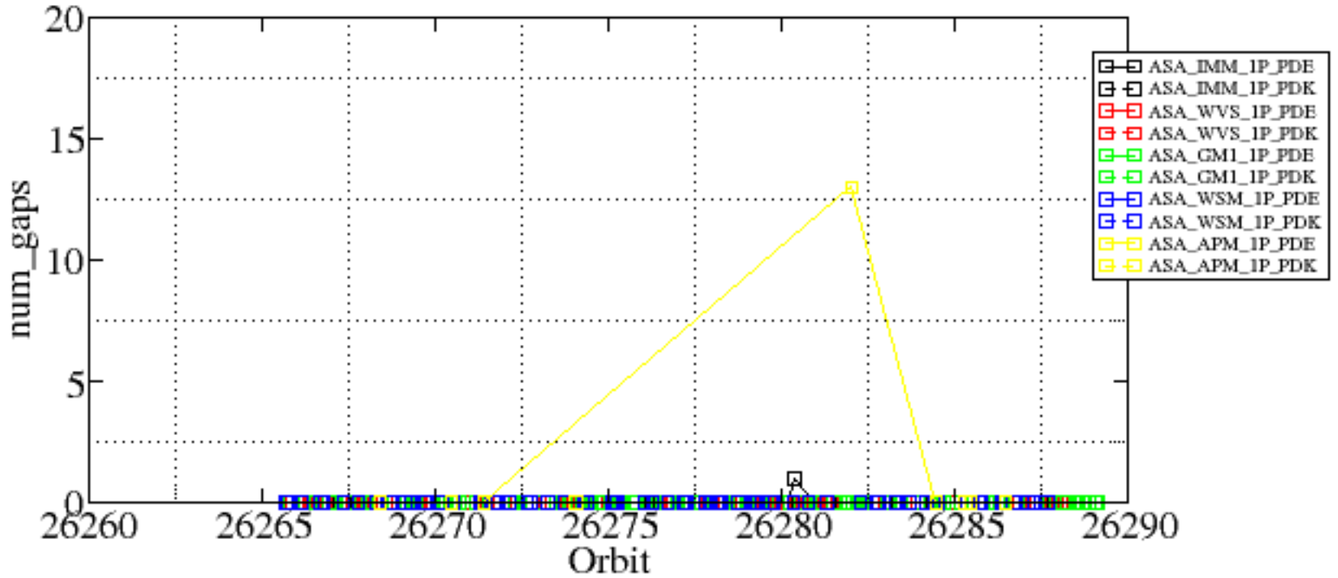
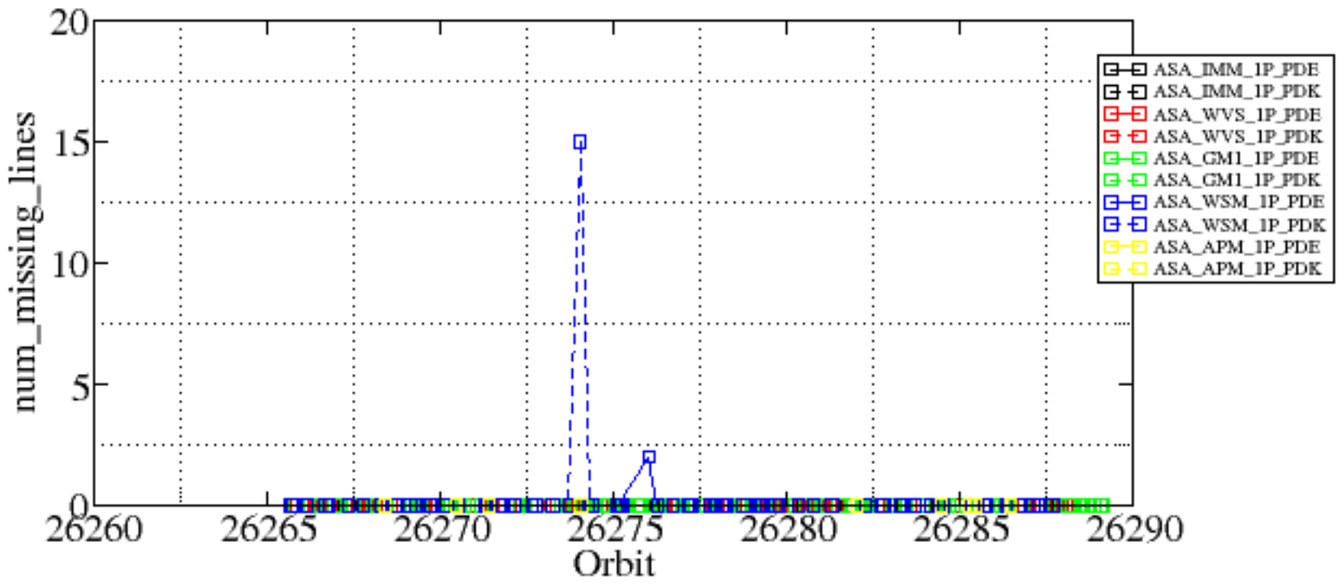
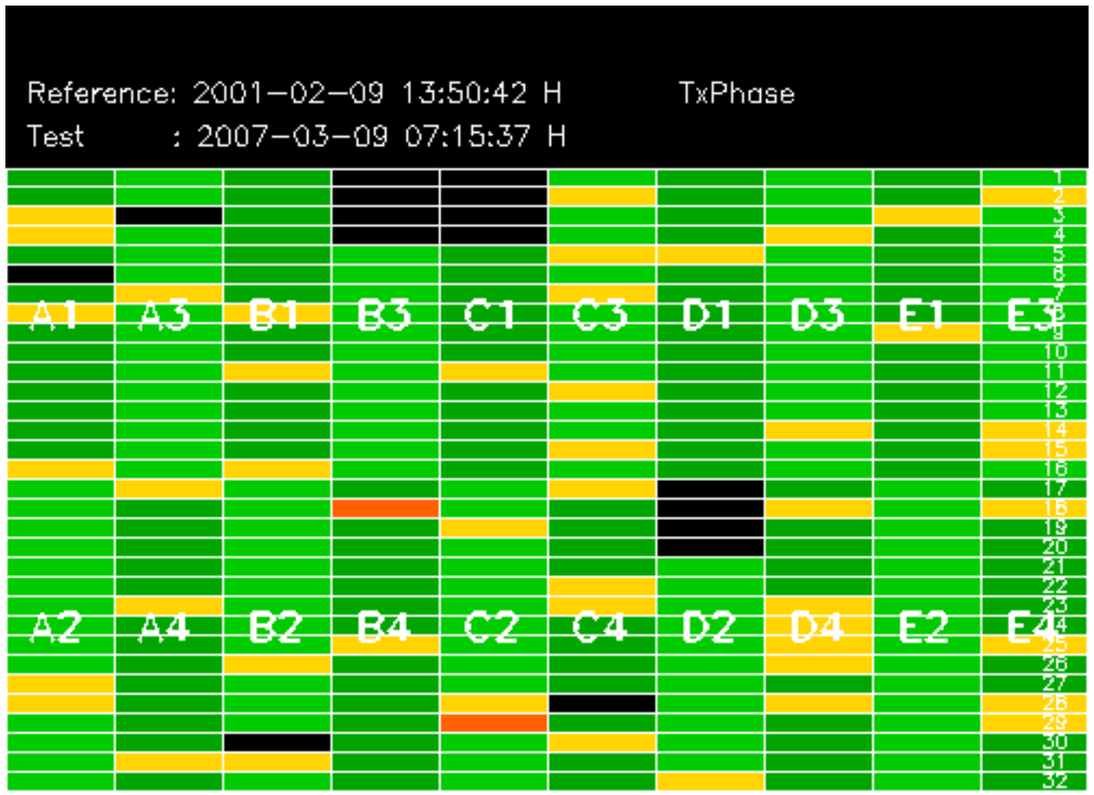
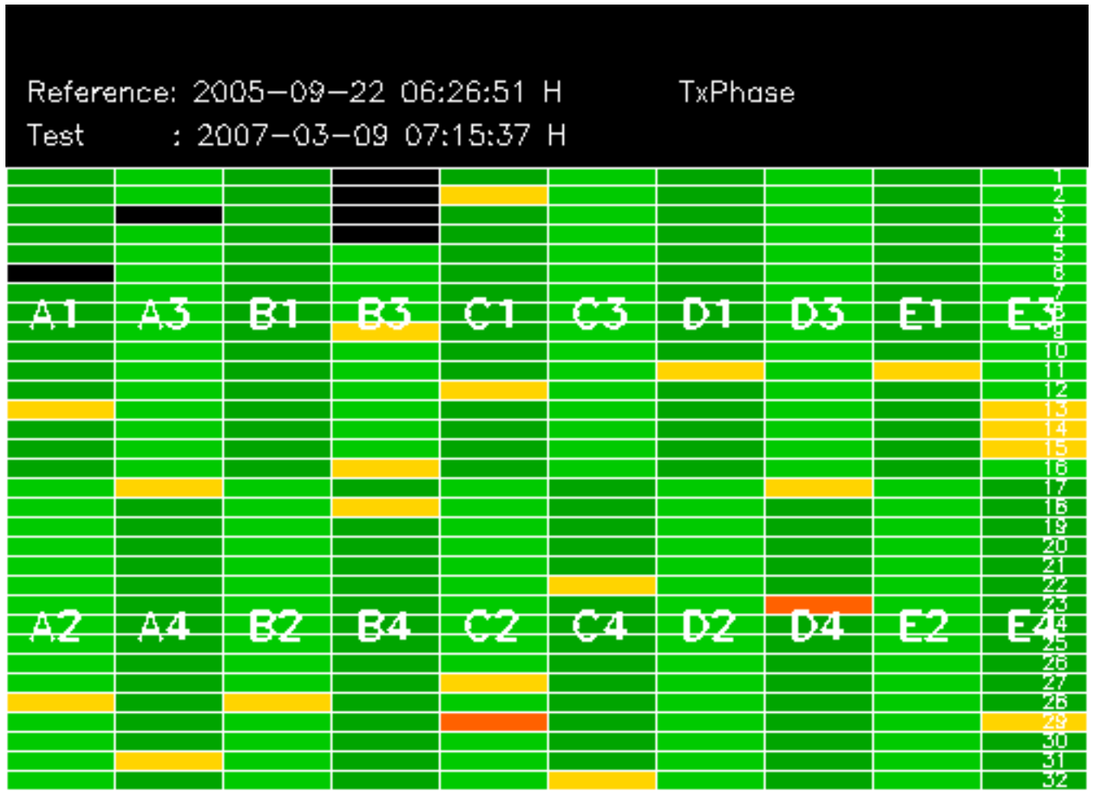
Summary of analysis for the last 3 days 2007031[901]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20070311_004054_000000622056_00174_26280_8589.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070310_172247_000001772056_00170_26276_8196.N1 </td> <td>0 </td> <td>2 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20070310_140332_000000862056_00168_26274_2612.N1 </td> <td>0 </td> <td>15 </td></tr>
<tr> <td>ASA_APM_1PNPDE20070311_032625_000000402056_00176_26282_8971.N1 </td> <td>13 </td> <td>0 </td></tr>
</table>


num_gaps
20
15
10
5
0
26260
26265
26270
26275
26280
26285
26290
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
20
15
10
5
0
26260
26265
26270
26275
26280
26285
26290
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
Test : 2007-03-09 07:15:37 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 : 2007-03-09 07:15:37 H
TxPhase
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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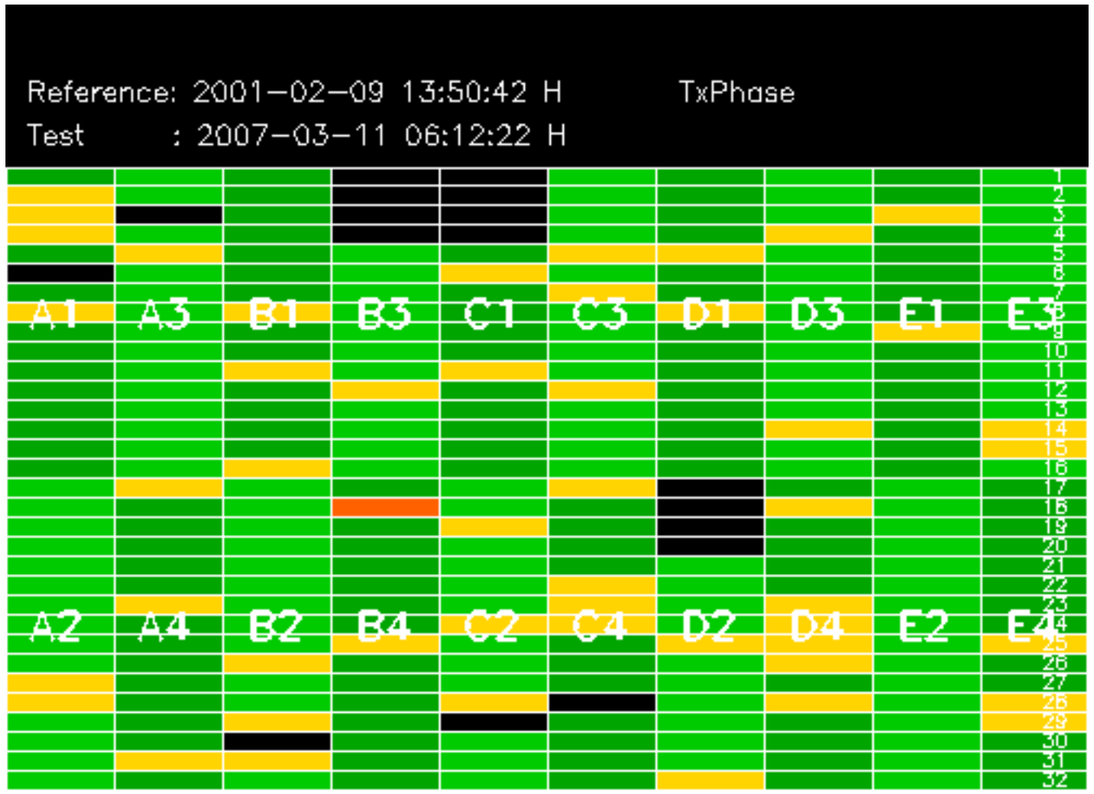
32


Reference: 2001-02-09 13:50:42 H
TxPhase
Test : 2007-03-11 06:12:22 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
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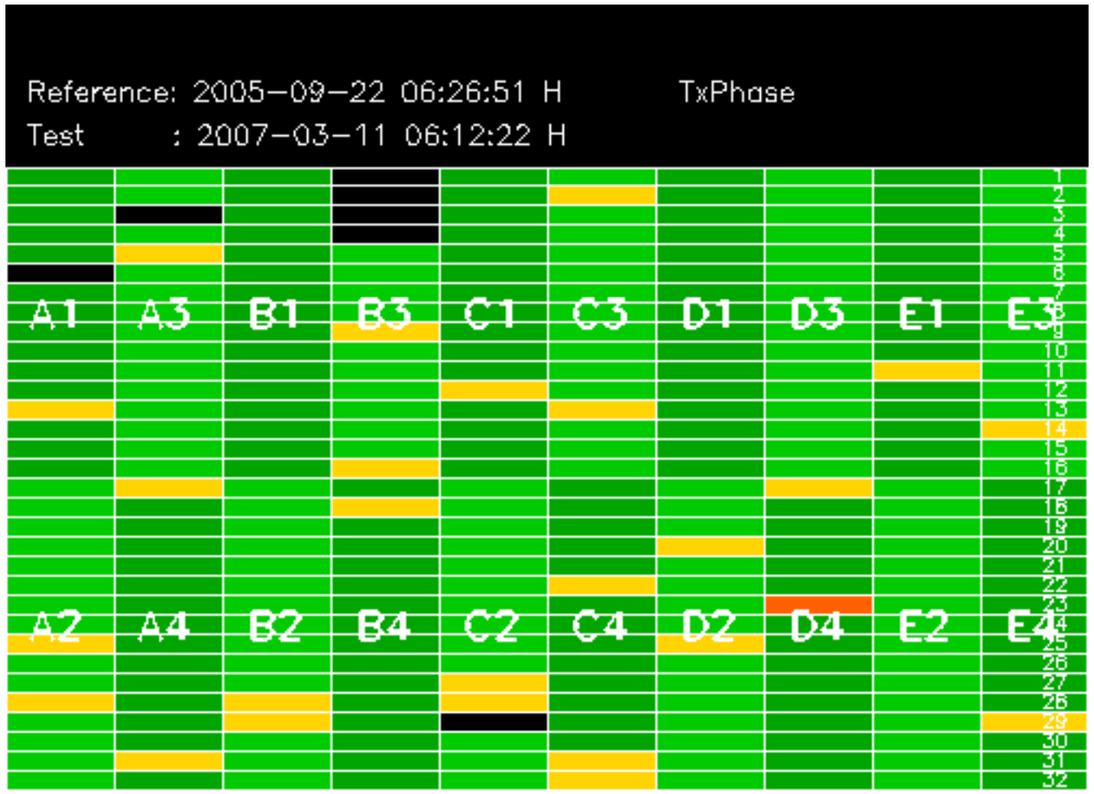
Reference: 2005-09-22 06:26:51 H
Test : 2007-03-11 06:12:22 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
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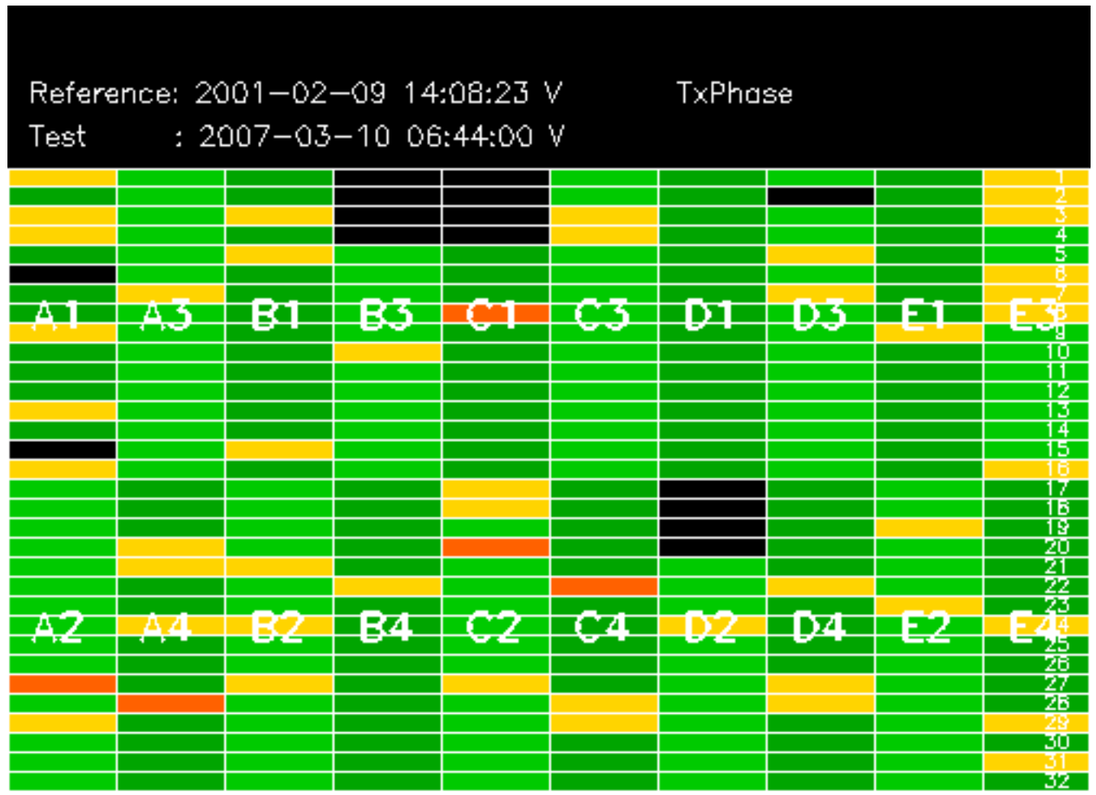
Reference: 2001-02-09 14:08:23 V
TxPhase
Test : 2007-03-10 06:44:00 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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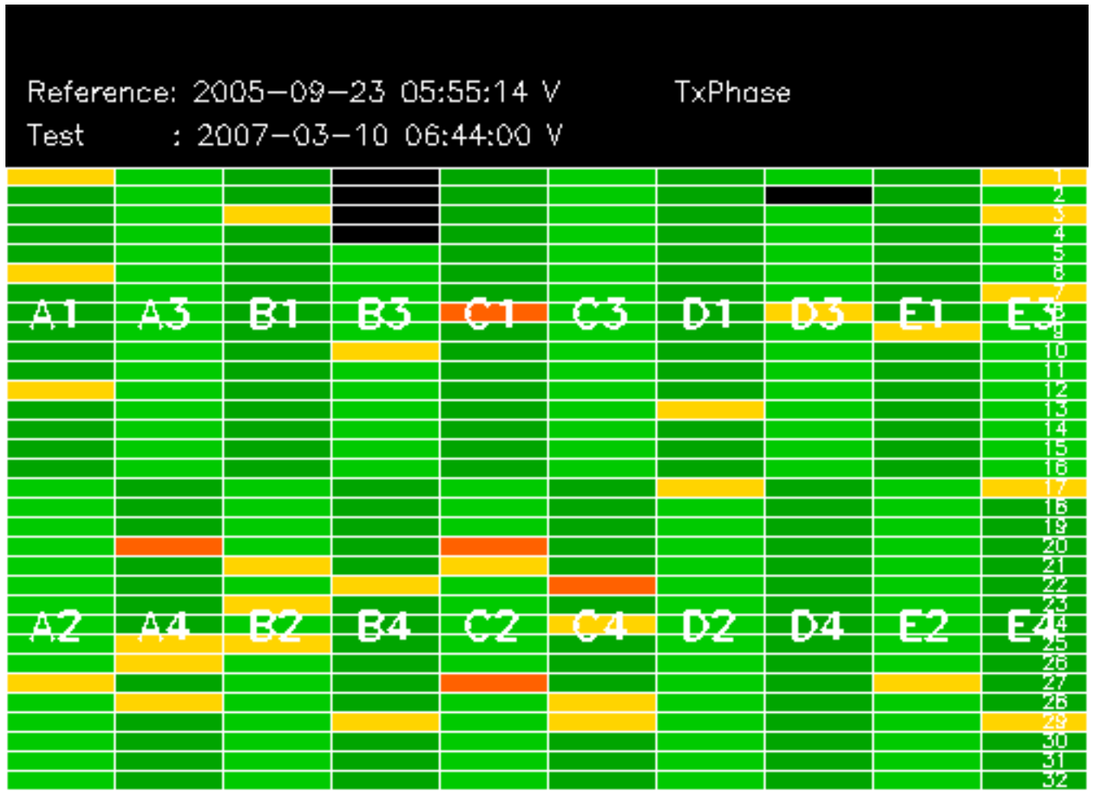
Reference: 2005-09-23 05:55:14 V
Test : 2007-03-10 06:44:00 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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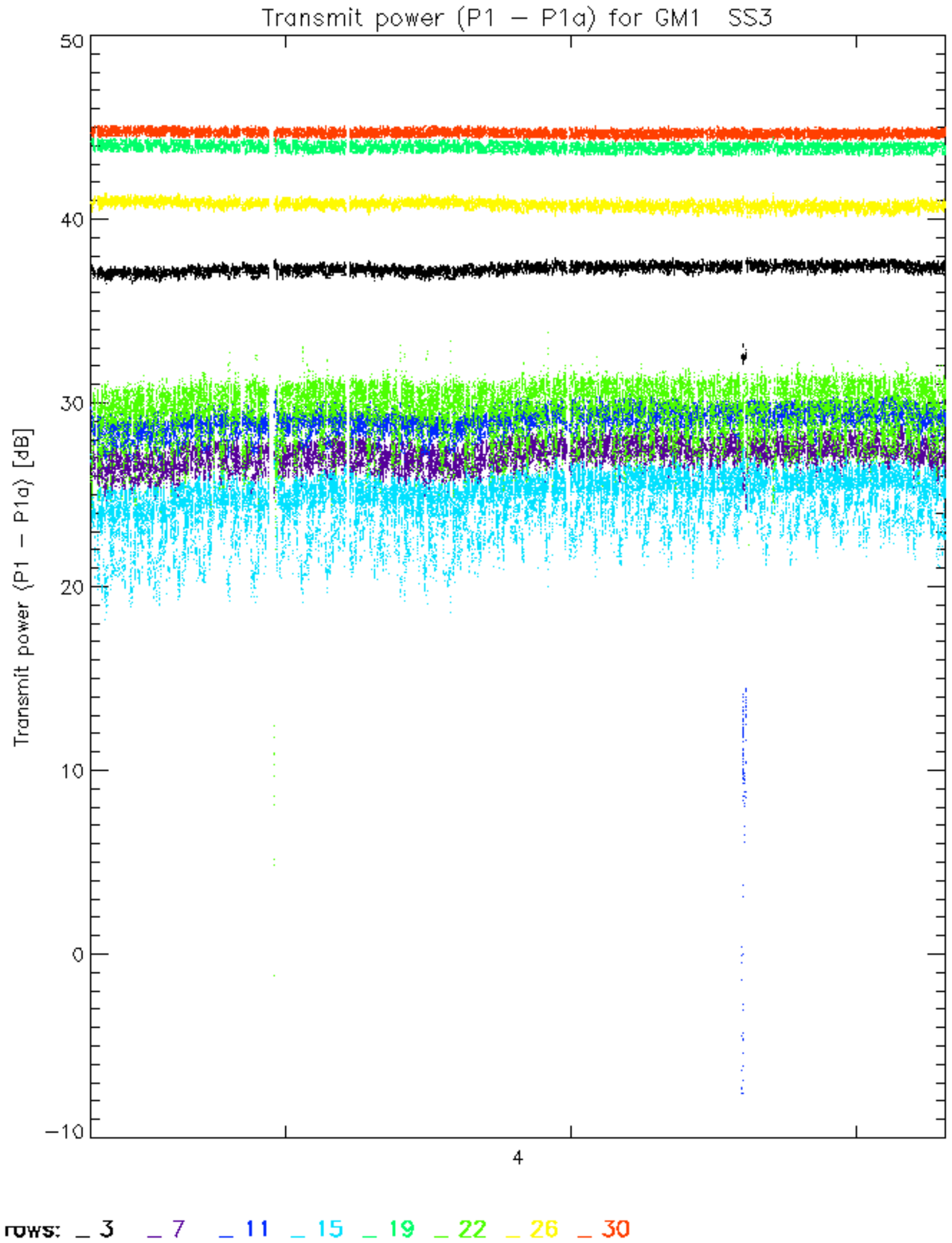
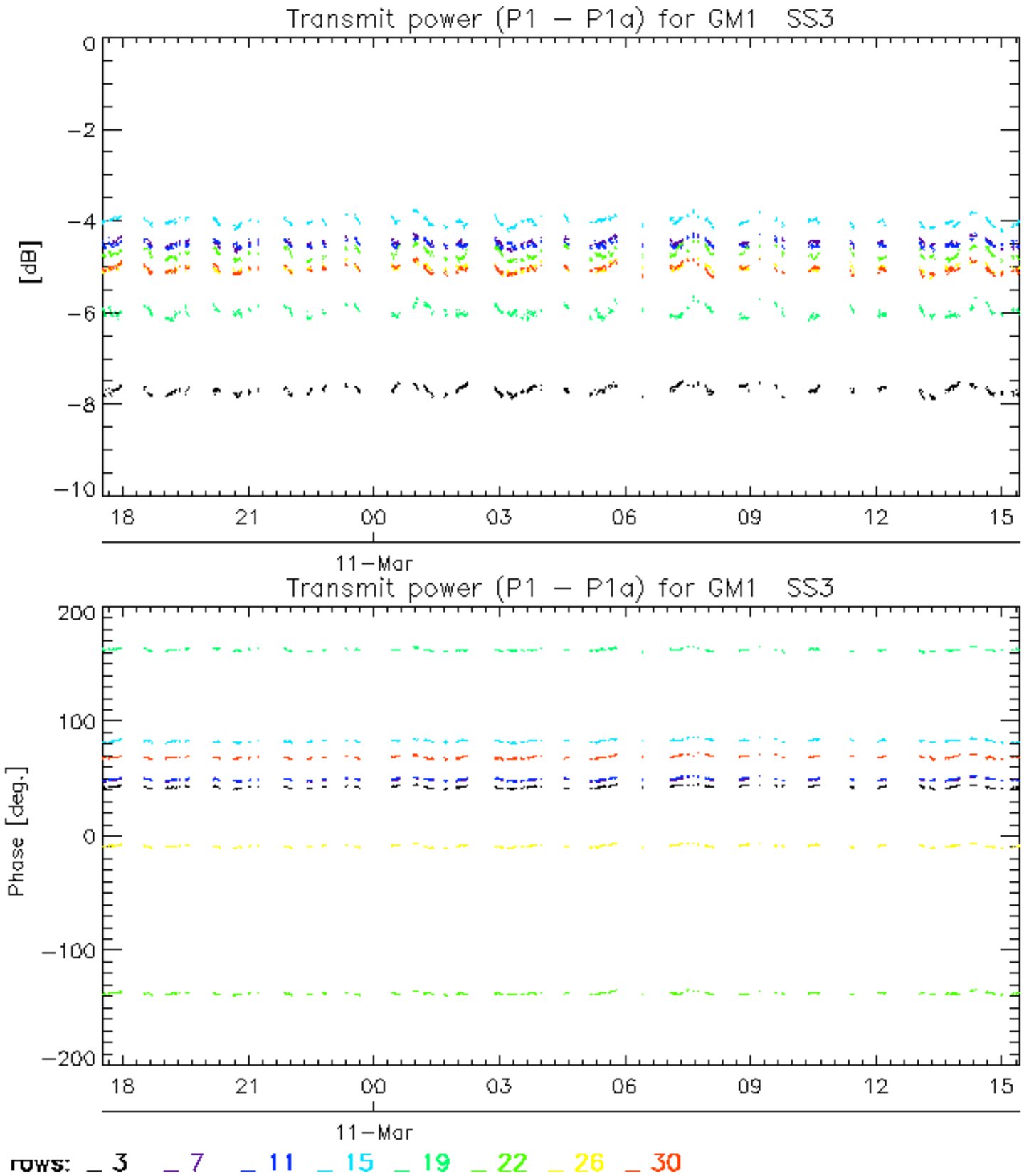
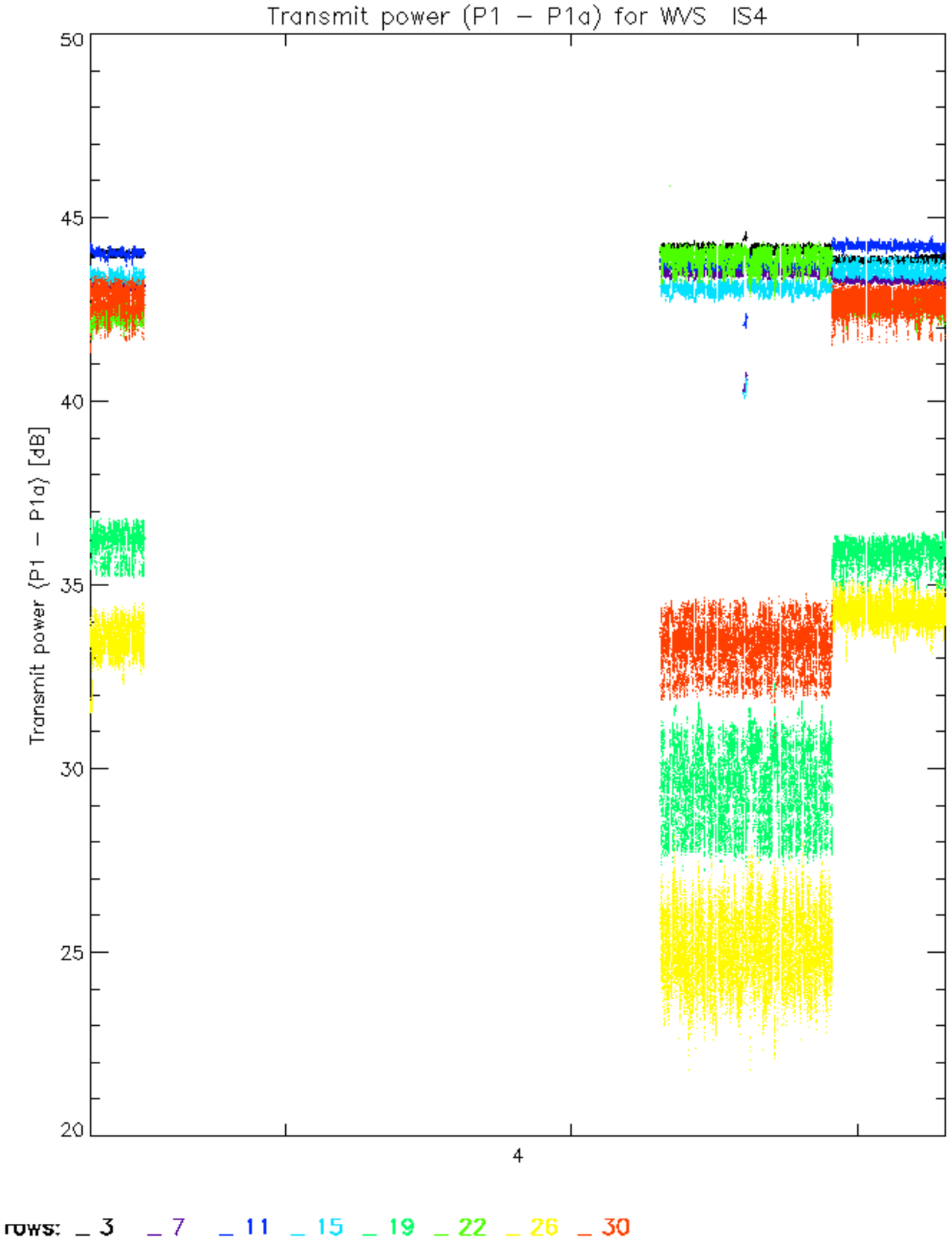
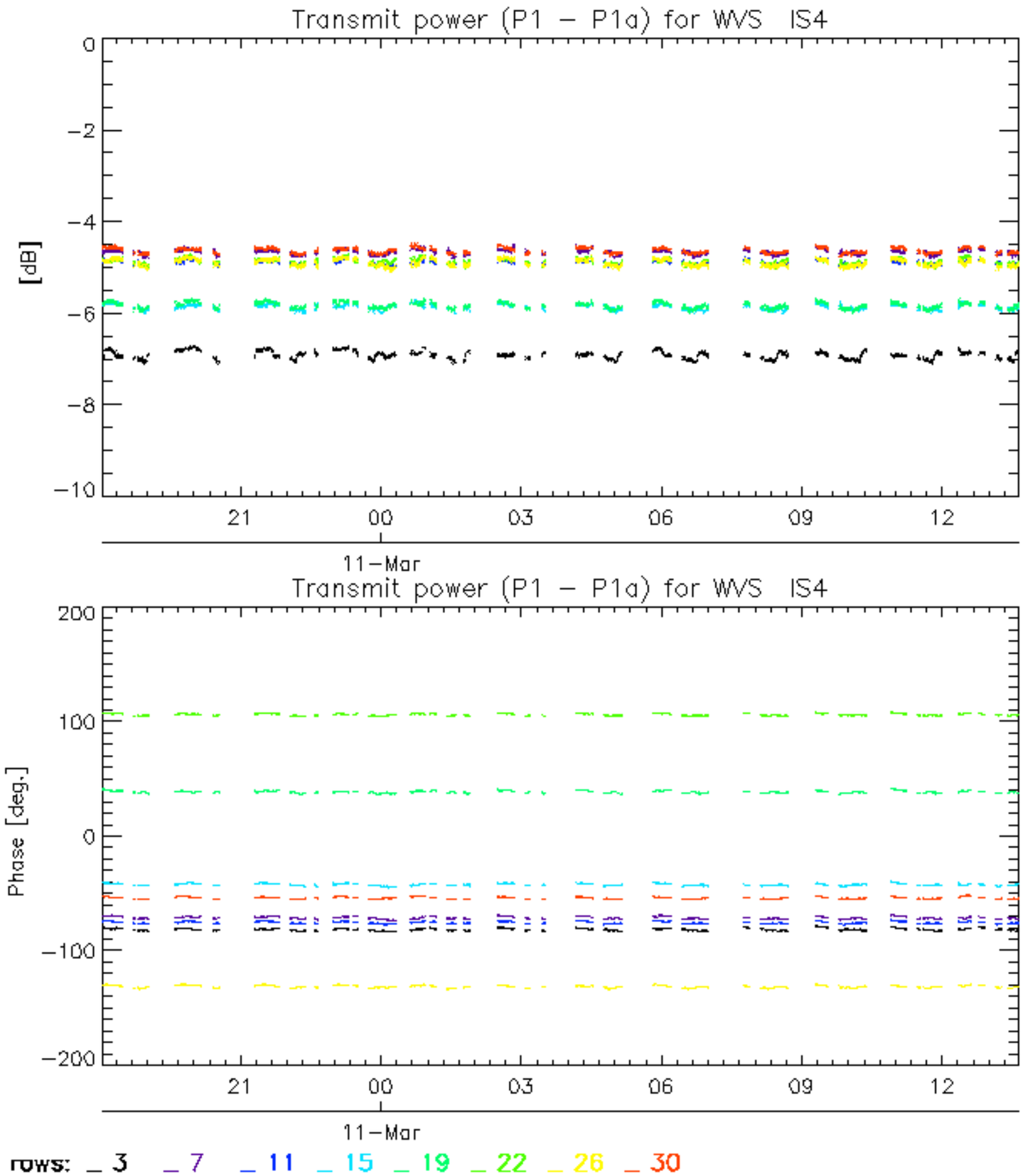

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
4
rows: 3 7 11 15 19 22 26 30


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


Transmit power (P1 – P1a) for WVS IS4
Transmit power ⟨P1 – P1a⟩ [dB]
50
45
40
35
30
25
20
4
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS4
0
−2
−4
−6
−8
−10
[dB]
21
00
03
06
09
12
11−Mar
Transmit power (P1 – P1a) for WVS IS4
200
100
0
−100
−200
Phase [deg.]
21
00
03
06
09
12
11−Mar
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.