PRELIMINARY REPORT OF 060318

last update on Sat Mar 18 16:32:16 GMT 2006

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 2006-03-17 00:00:00 to 2006-03-18 16:32:16

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	41	55	9	0	24
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	41	55	9	0	24
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	41	55	9	0	24
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	41	55	9	0	24

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	45	41	33	12	52
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	45	41	33	12	52
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	45	41	33	12	52
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	45	41	33	12	52

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	20060317 055503
H	20060318 084438

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	-4.002677	0.009355	-0.001460
7	P1	-3.007253	0.008684	-0.030808
11	P1	-4.062926	0.020315	0.026536
15	P1	-6.084866	0.021284	-0.048413
19	P1	-3.291188	0.006605	-0.034759
22	P1	-4.459041	0.014741	-0.016432
26	P1	-4.193017	0.103975	0.132202
30	P1	-5.801582	0.145082	0.013568
3	P1	-16.983078	0.247572	0.027842
7	P1	-16.719341	0.102238	-0.128021
11	P1	-16.497595	0.326795	0.064805
15	P1	-13.057945	0.095537	-0.006639
19	P1	-13.937891	0.053731	-0.102733
22	P1	-15.578574	0.462995	-0.030718
26	P1	-15.767228	0.301310	-0.057339
30	P1	-16.503986	0.305295	-0.151250

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.399822	0.086822	0.089360
7	P2	-22.372688	0.095437	0.112361
11	P2	-16.226416	0.100536	0.041805
15	P2	-7.164884	0.098600	0.003135
19	P2	-9.133256	0.091162	0.002312
22	P2	-17.941061	0.089097	-0.055639
26	P2	-16.212296	0.094526	-0.030119
30	P2	-19.647825	0.084311	-0.033551

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.194154	0.005888	-0.002280
7	P3	-8.194154	0.005888	-0.002280
11	P3	-8.194154	0.005888	-0.002280
15	P3	-8.194154	0.005888	-0.002280
19	P3	-8.194154	0.005888	-0.002280
22	P3	-8.194154	0.005888	-0.002280
26	P3	-8.194154	0.005888	-0.002280
30	P3	-8.194155	0.005888	-0.002280

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	-3.836545	2.955635	0.263028
7	P1	-2.826021	3.102571	0.331290
11	P1	-3.016116	3.124094	0.296868
15	P1	-3.661438	3.097015	0.319893
19	P1	-3.463235	3.000614	0.254712
22	P1	-5.259025	2.758192	0.243270
26	P1	-5.940274	2.932777	0.478395
30	P1	-5.280239	2.791307	0.317534
3	P1	-11.639191	1.943513	0.222350
7	P1	-10.036063	2.152853	0.219513
11	P1	-10.334706	2.146051	0.165514
15	P1	-10.881023	2.156275	0.177230
19	P1	-15.464851	1.588938	0.147046
22	P1	-20.311026	2.230613	0.101995
26	P1	-16.310812	2.084440	0.098495
30	P1	-18.350666	1.504300	0.163261

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.097155	2.044747	0.116883
7	P2	-22.544132	2.392755	-0.053539
11	P2	-11.272975	2.219763	0.166976
15	P2	-4.909146	2.883871	0.253294
19	P2	-6.919200	2.595558	0.241370
22	P2	-8.208196	2.434569	0.192169
26	P2	-23.899693	2.449526	-0.242616
30	P2	-22.037680	2.312064	-0.138875

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.023095	0.002495	0.008474
7	P3	-8.023142	0.002490	0.008541
11	P3	-8.023055	0.002500	0.008671
15	P3	-8.023221	0.002497	0.008377
19	P3	-8.023091	0.002498	0.008131
22	P3	-8.023157	0.002494	0.008316
26	P3	-8.023185	0.002494	0.008534
30	P3	-8.023035	0.002501	0.008664

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	0.000555938
	stdev	1.75948e-07
MEAN Q	mean	0.000514840
	stdev	2.21355e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.138093
	stdev	0.00119212
STDEV Q	mean	0.138455
	stdev	0.00121010

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006031[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_1PNPDE20060317_054348_000000352046_00048_21144_1038.N1	1	0
ASA_IMM_1PNPDE20060318_005019_000002372046_00059_21155_1081.N1	1	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

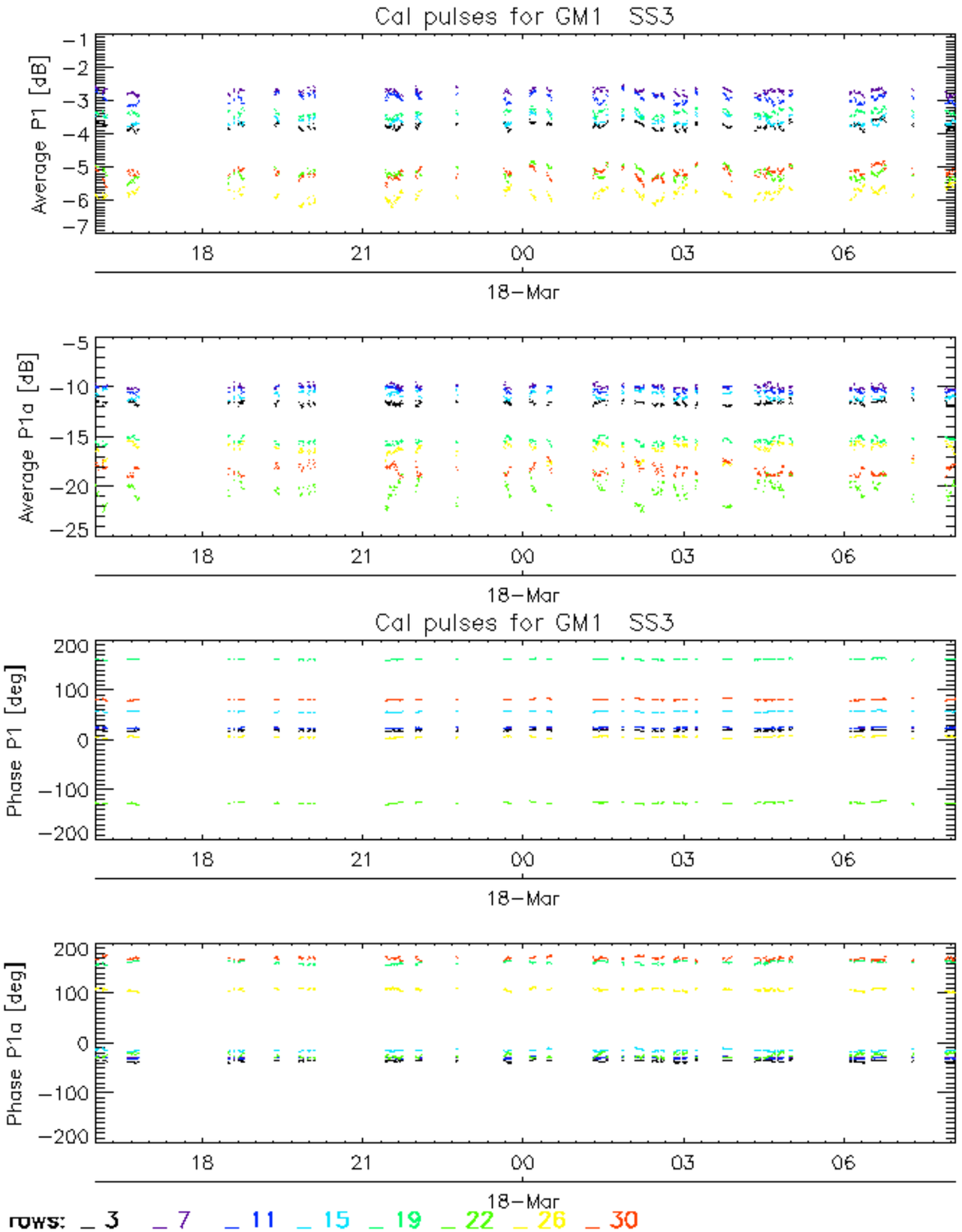
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

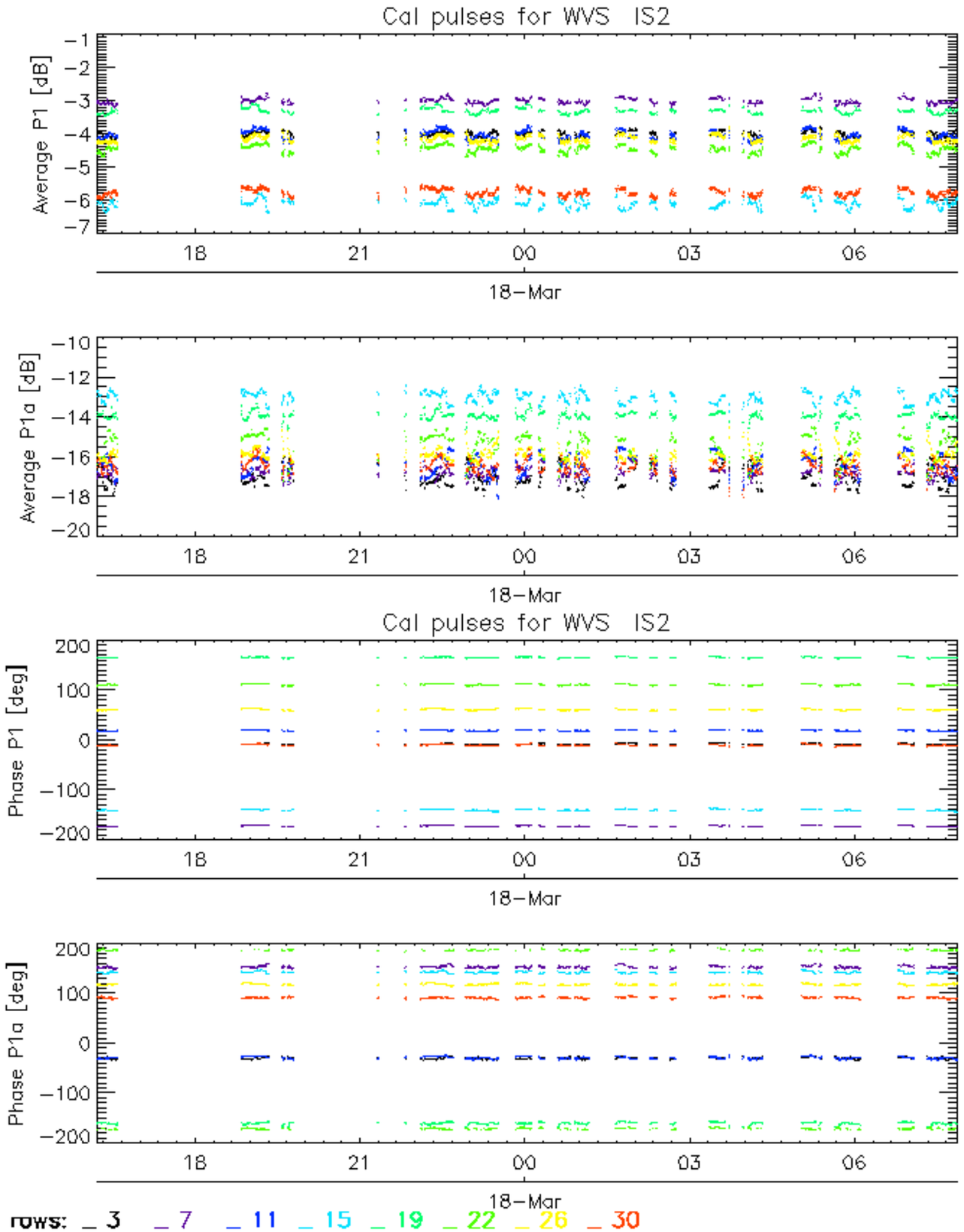
7.5 - Absolute Doppler for GM1

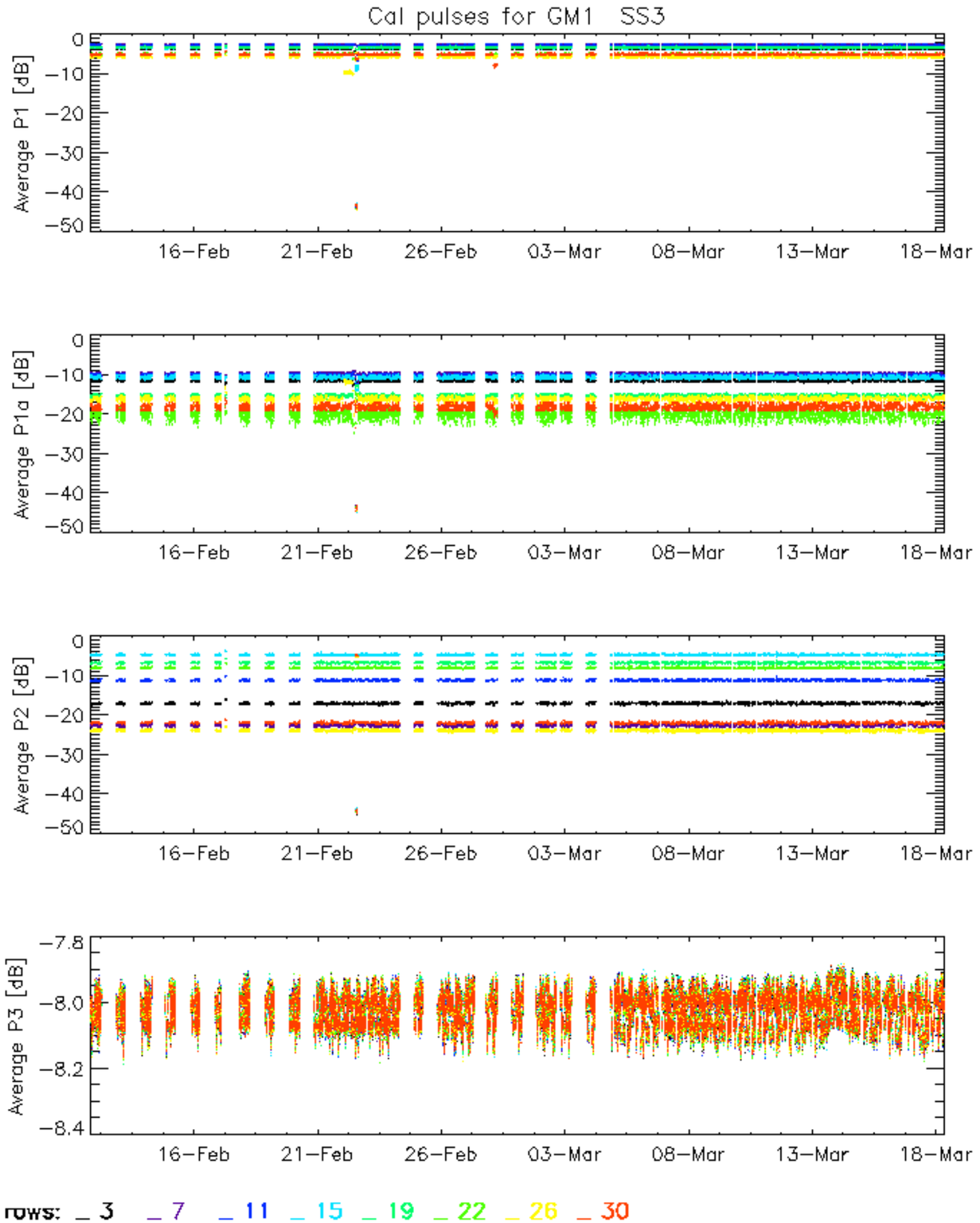
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

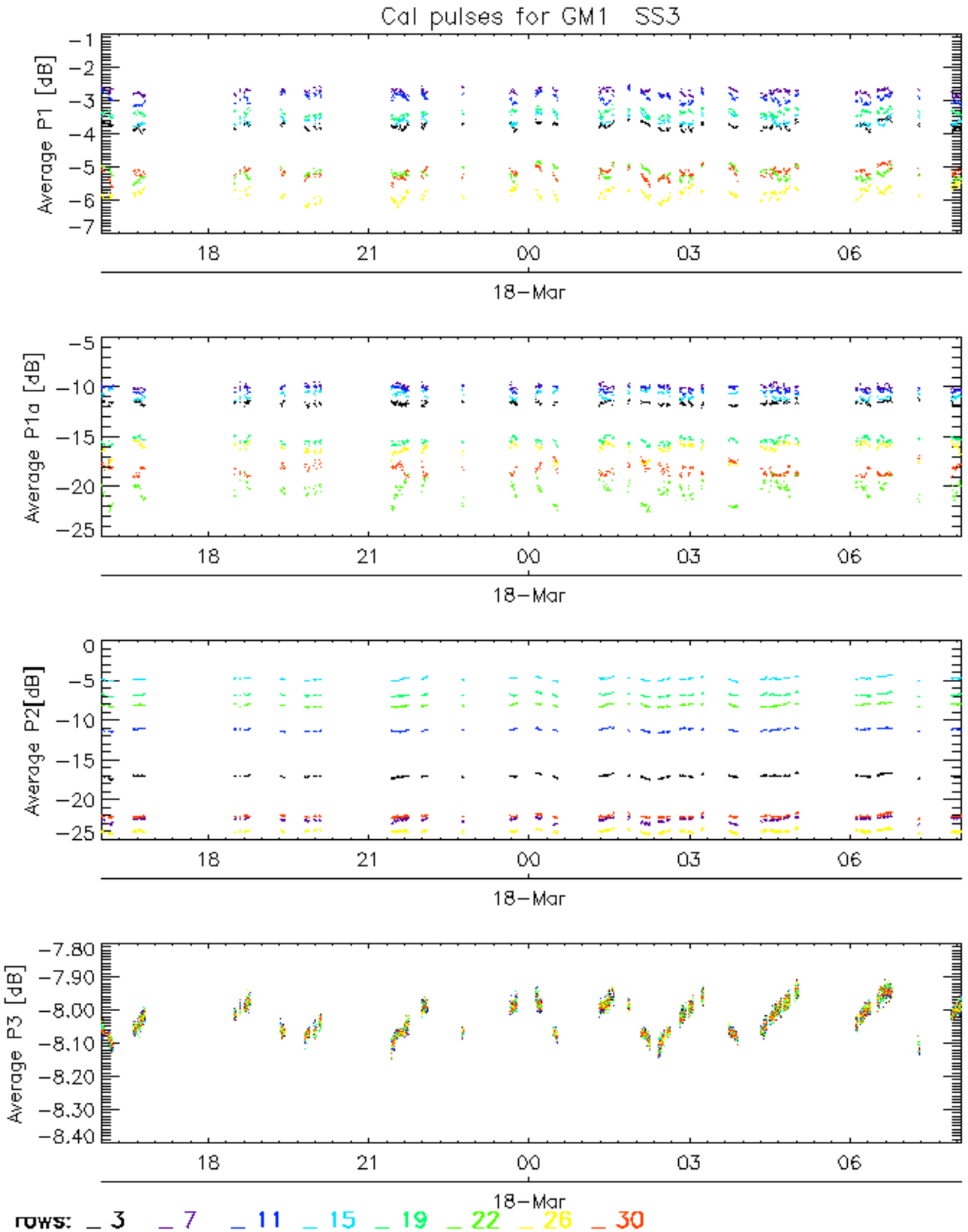
7.6 - Doppler evolution versus ANX for GM1

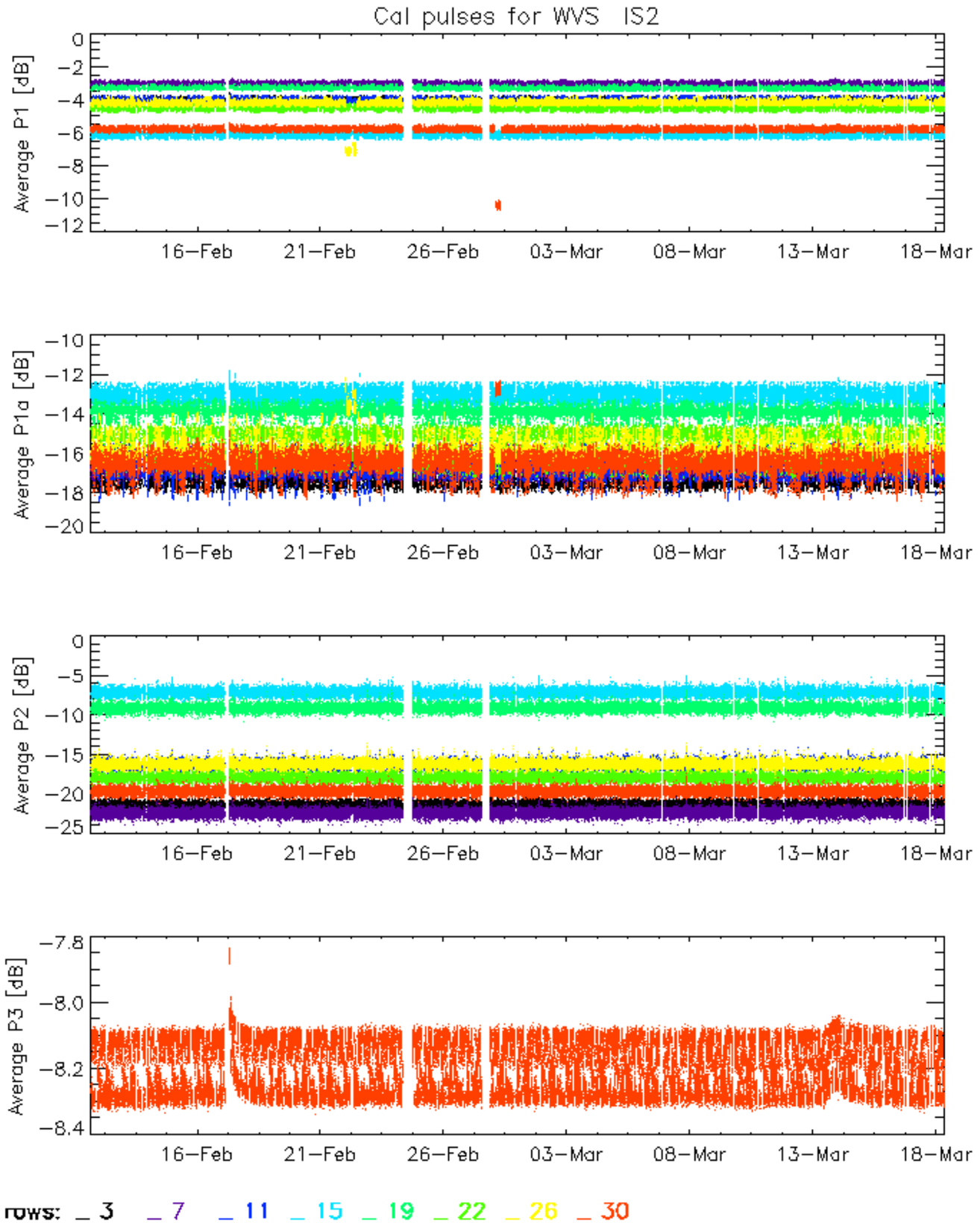
Evolution Doppler error versus ANX
☒

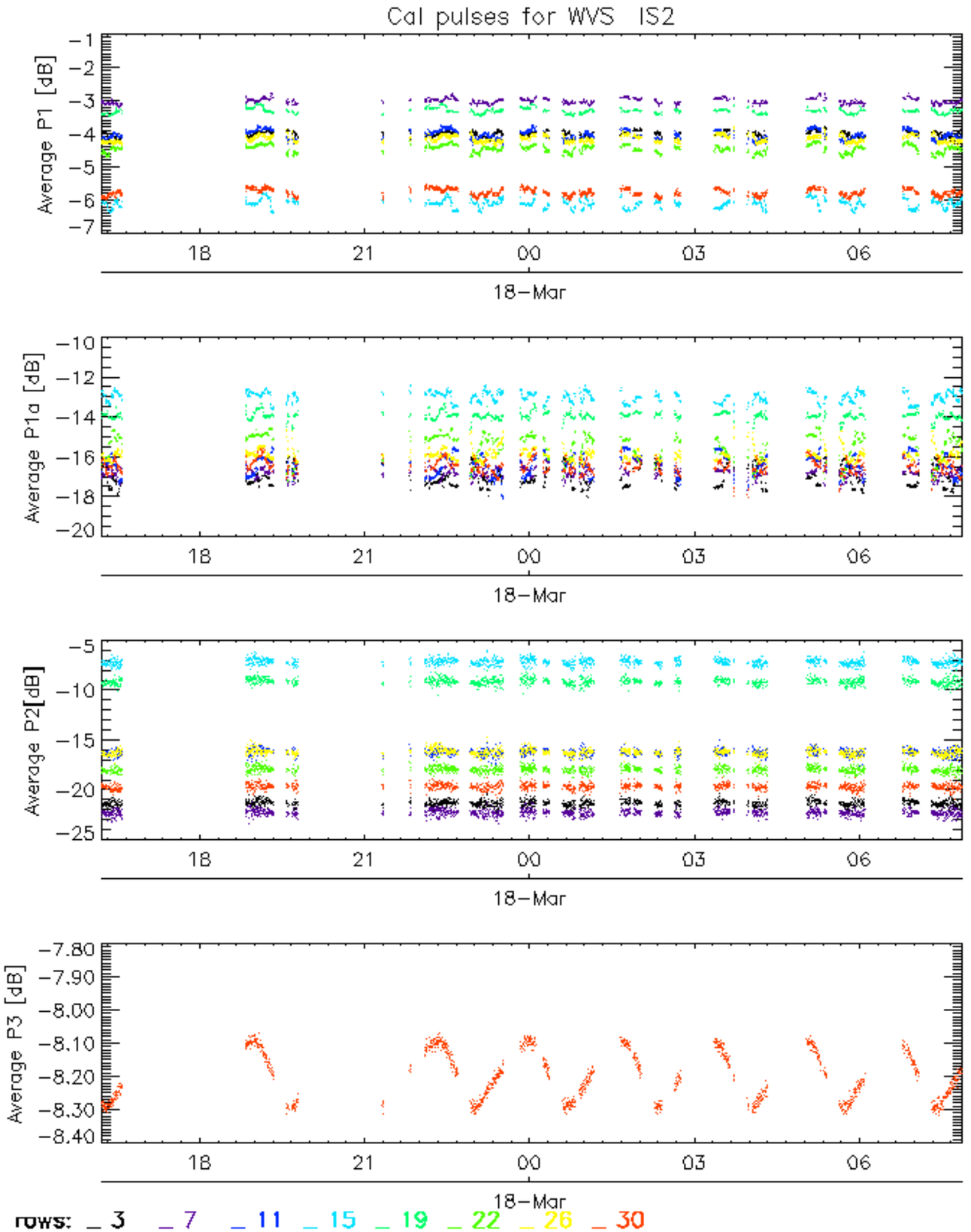

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
18−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
18−Mar
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
18−Mar
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
18−Mar
rows: _ 3 _ 7 _ 11 _ 15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

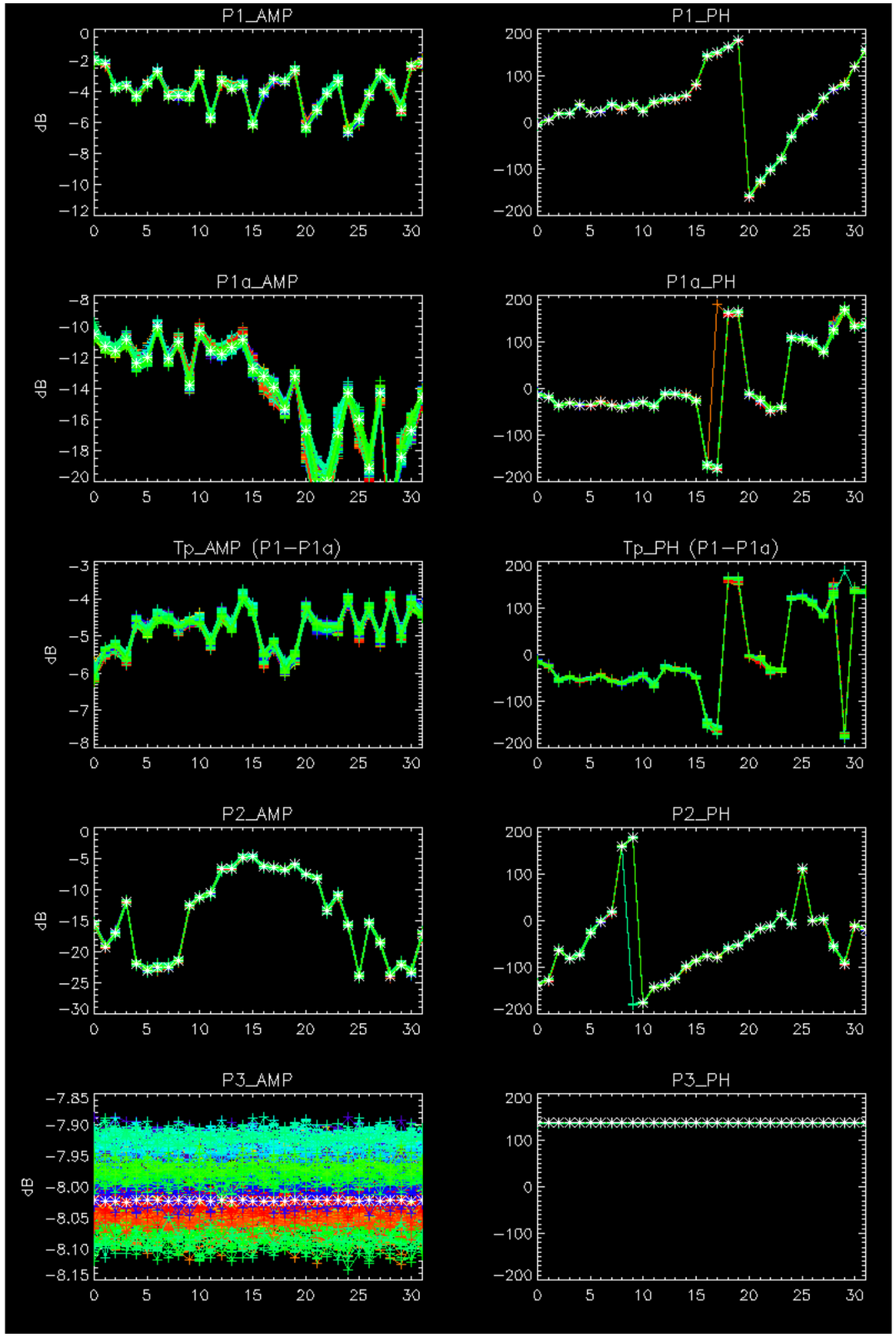

Cal pulses for GM1 SS3
Average P1 [dB]
0
−10
−20
−30
−40
−50
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar
Average P1a [dB]
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

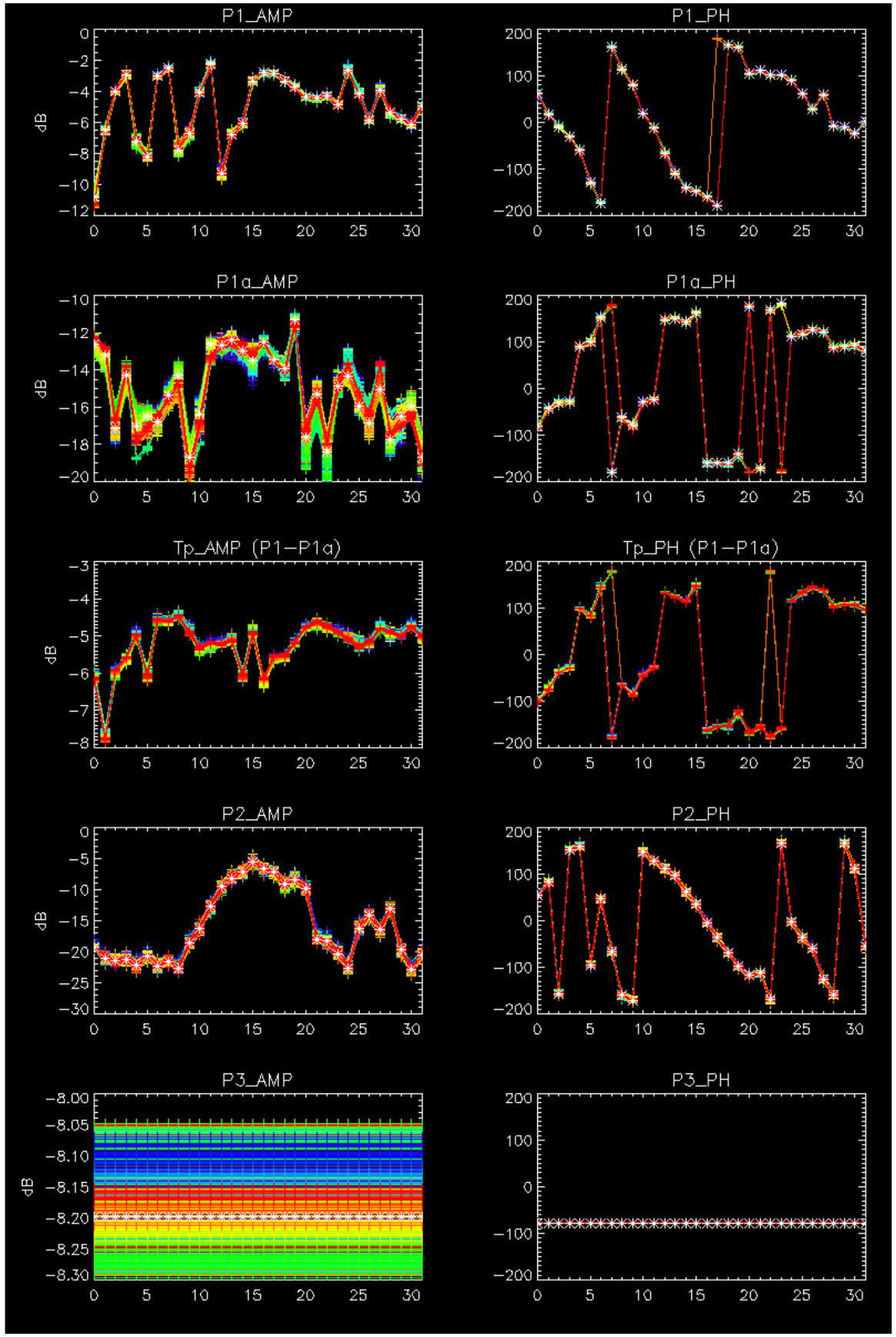

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
18−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
18−Mar
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
18−Mar
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
18−Mar
rows: _ 3 _ 7 _ 11 _ 15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


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

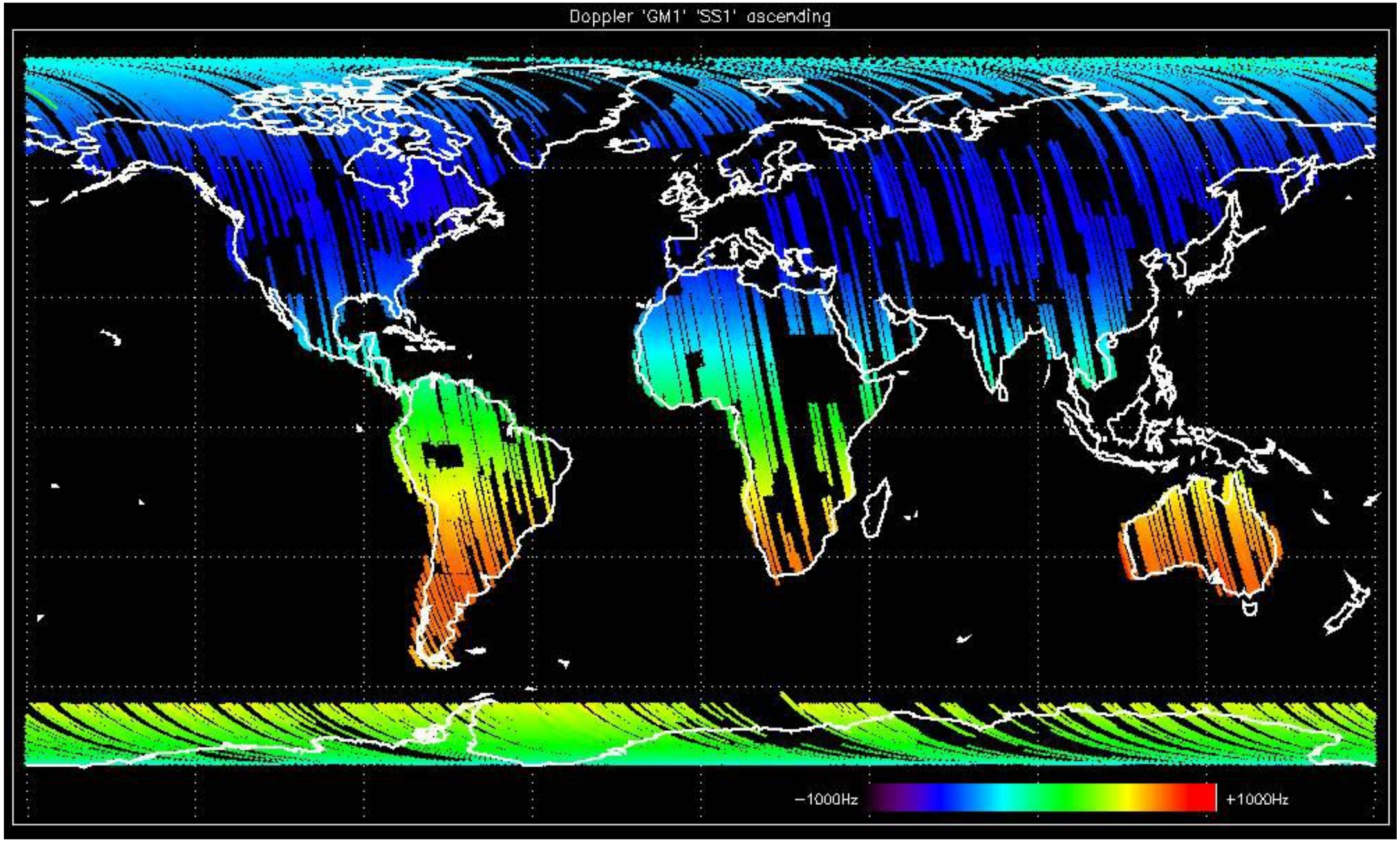
No anomalies observed.

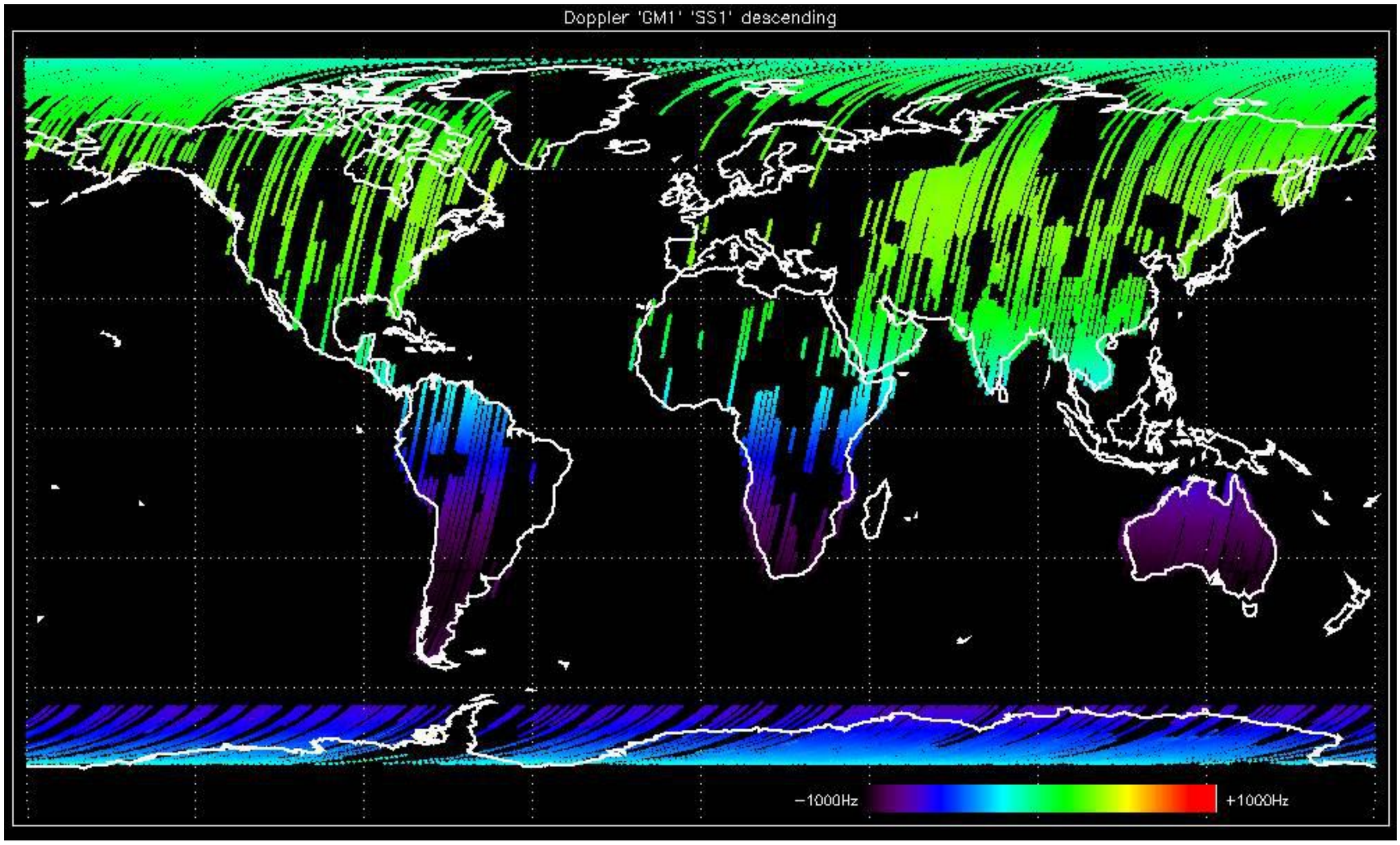

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

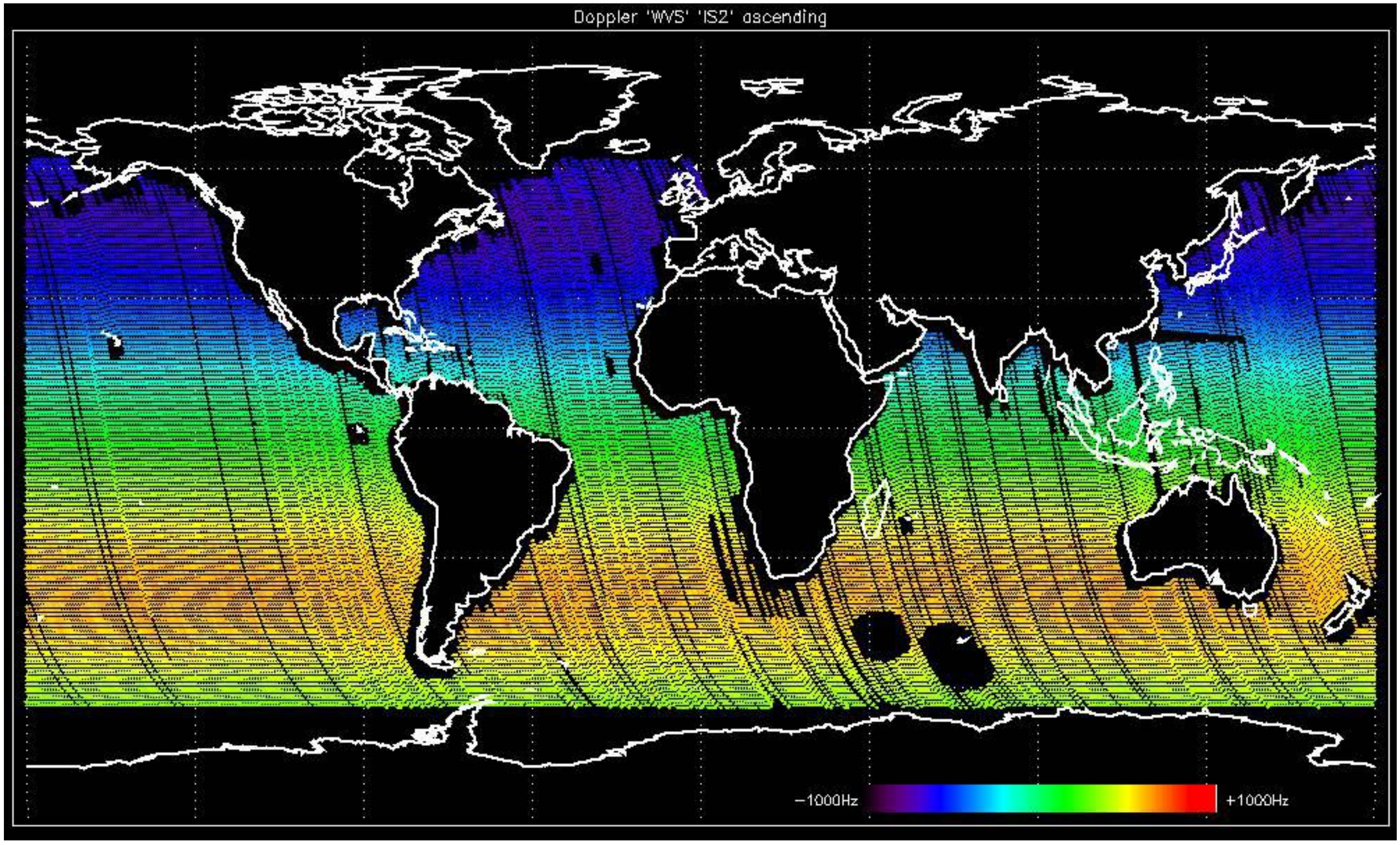

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

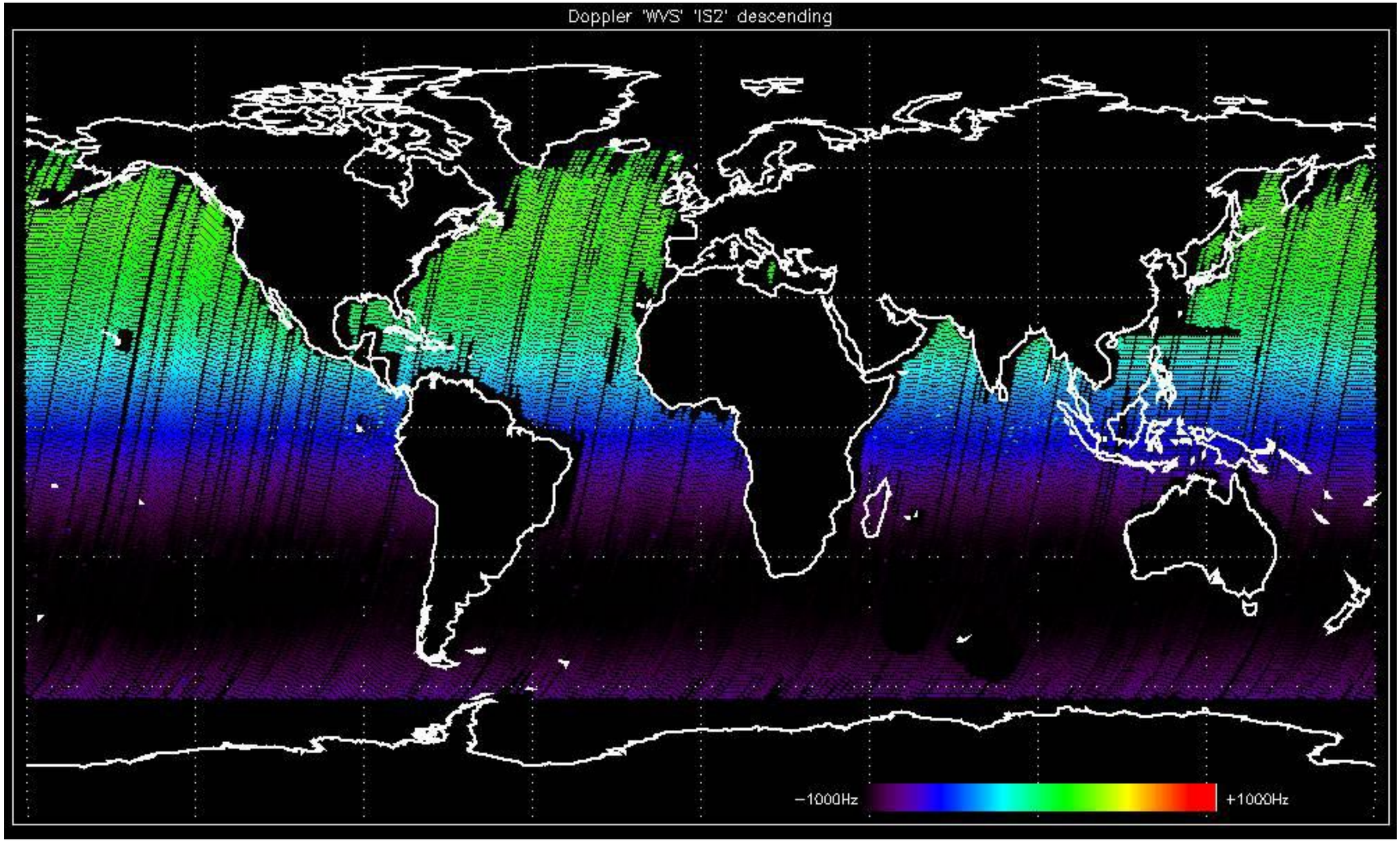
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

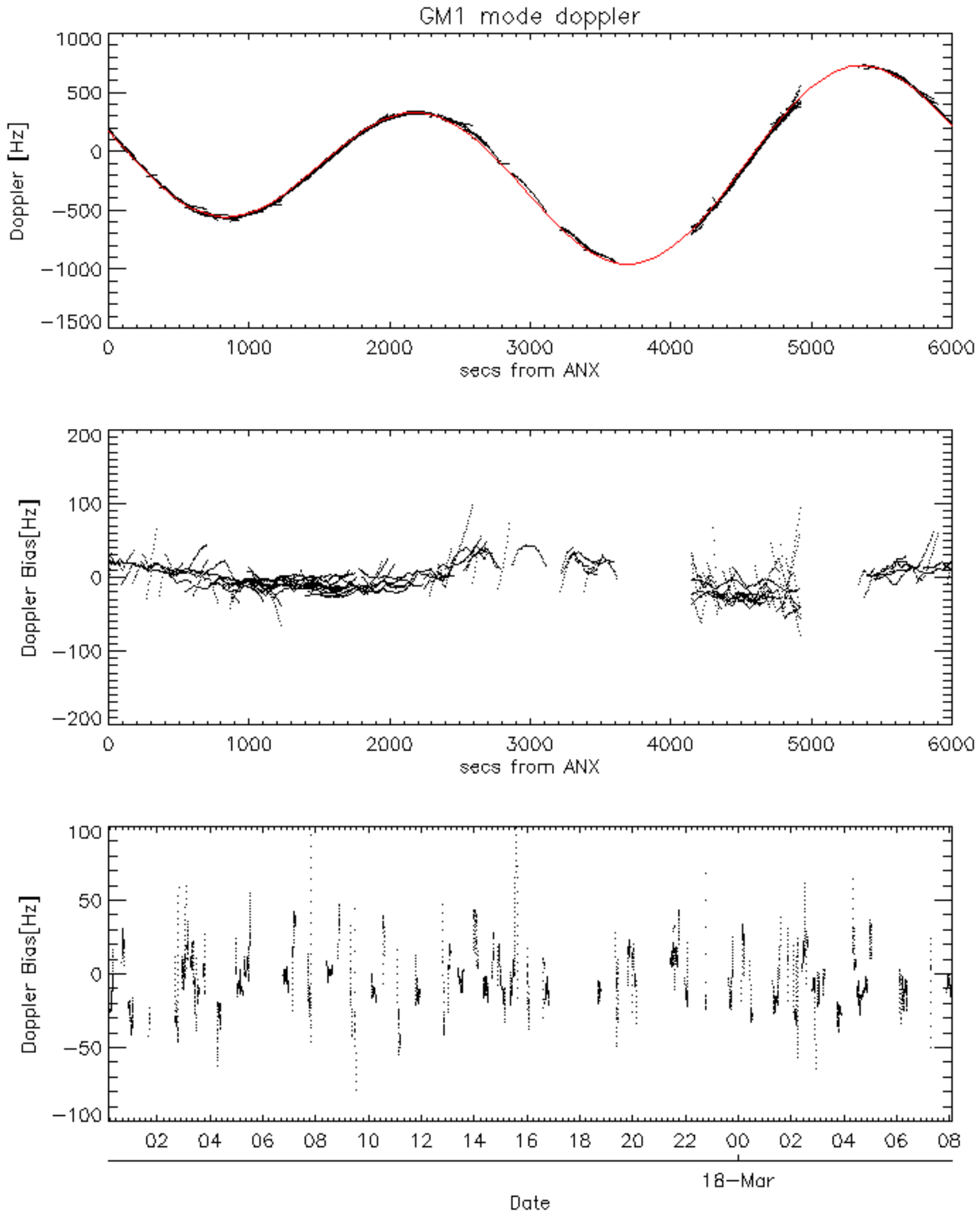
Preliminary report.The data is not yet controled

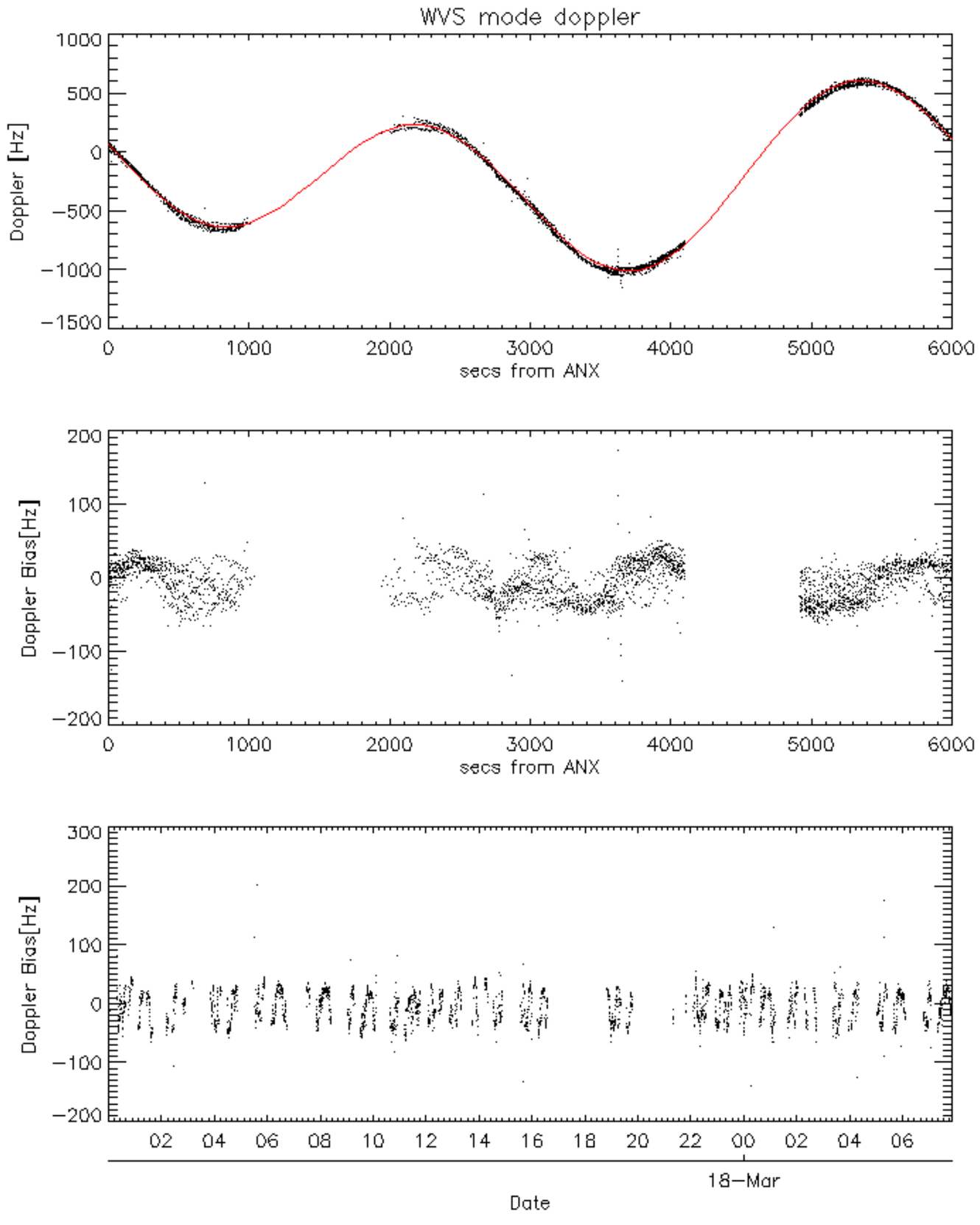

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

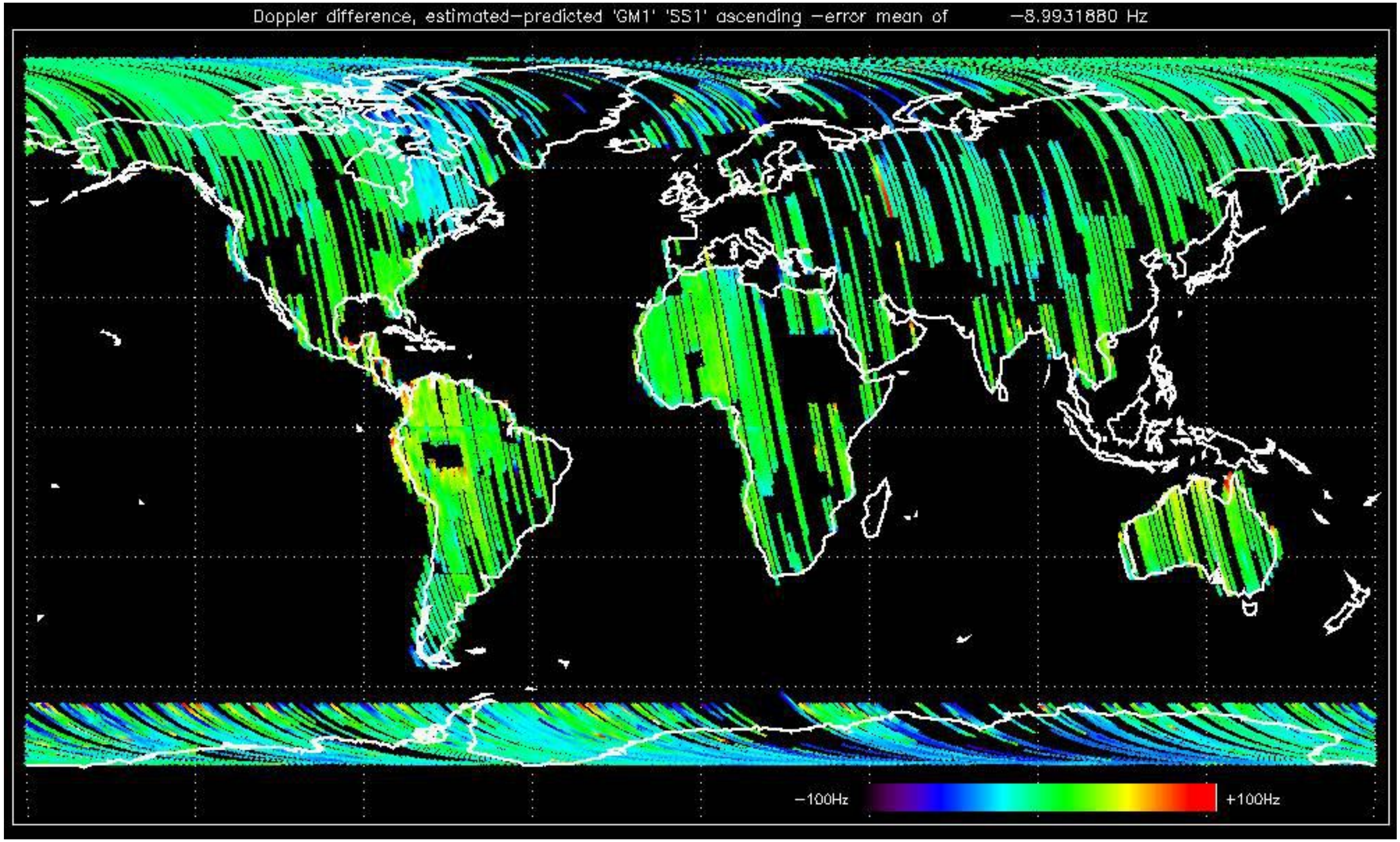

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

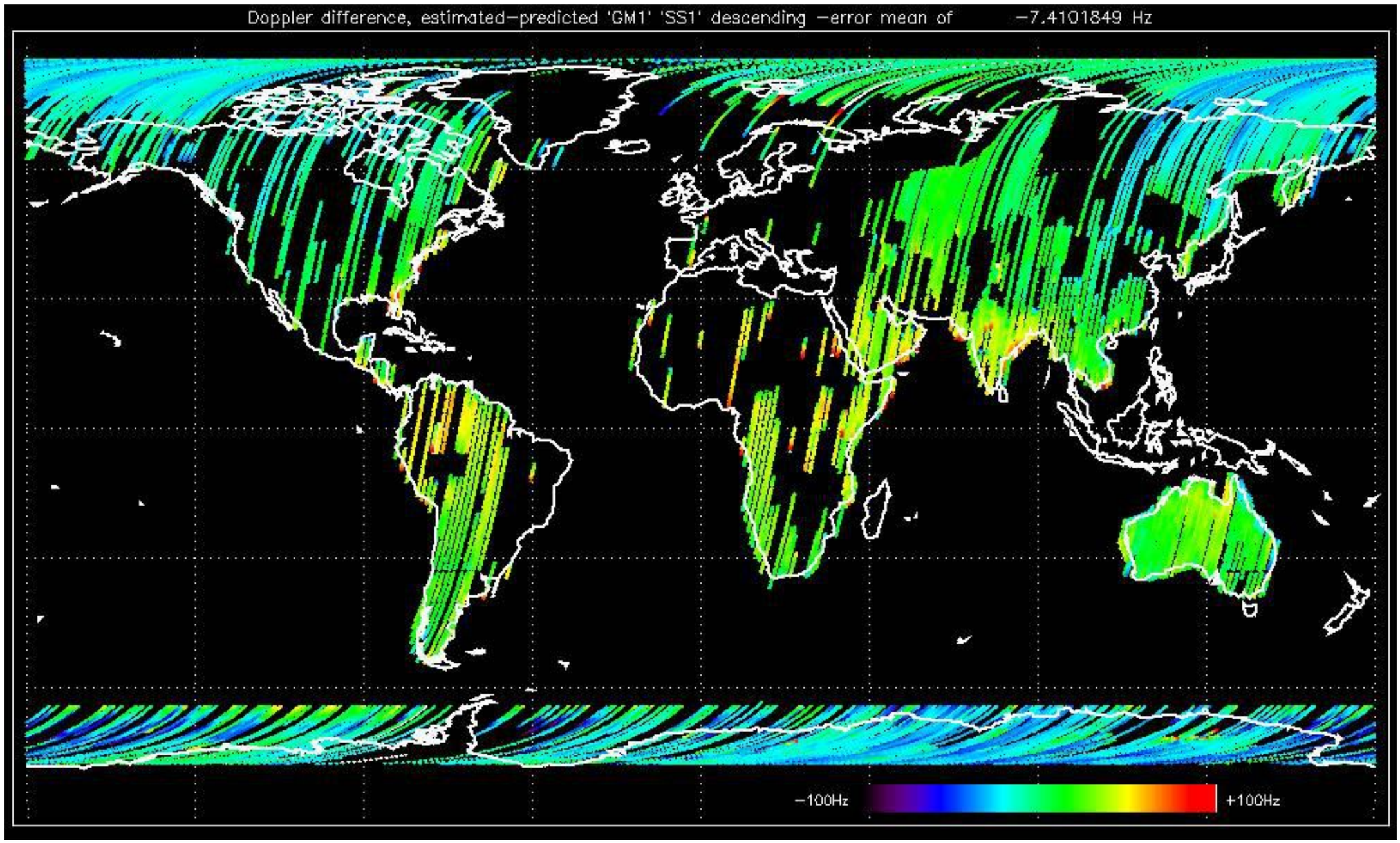

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

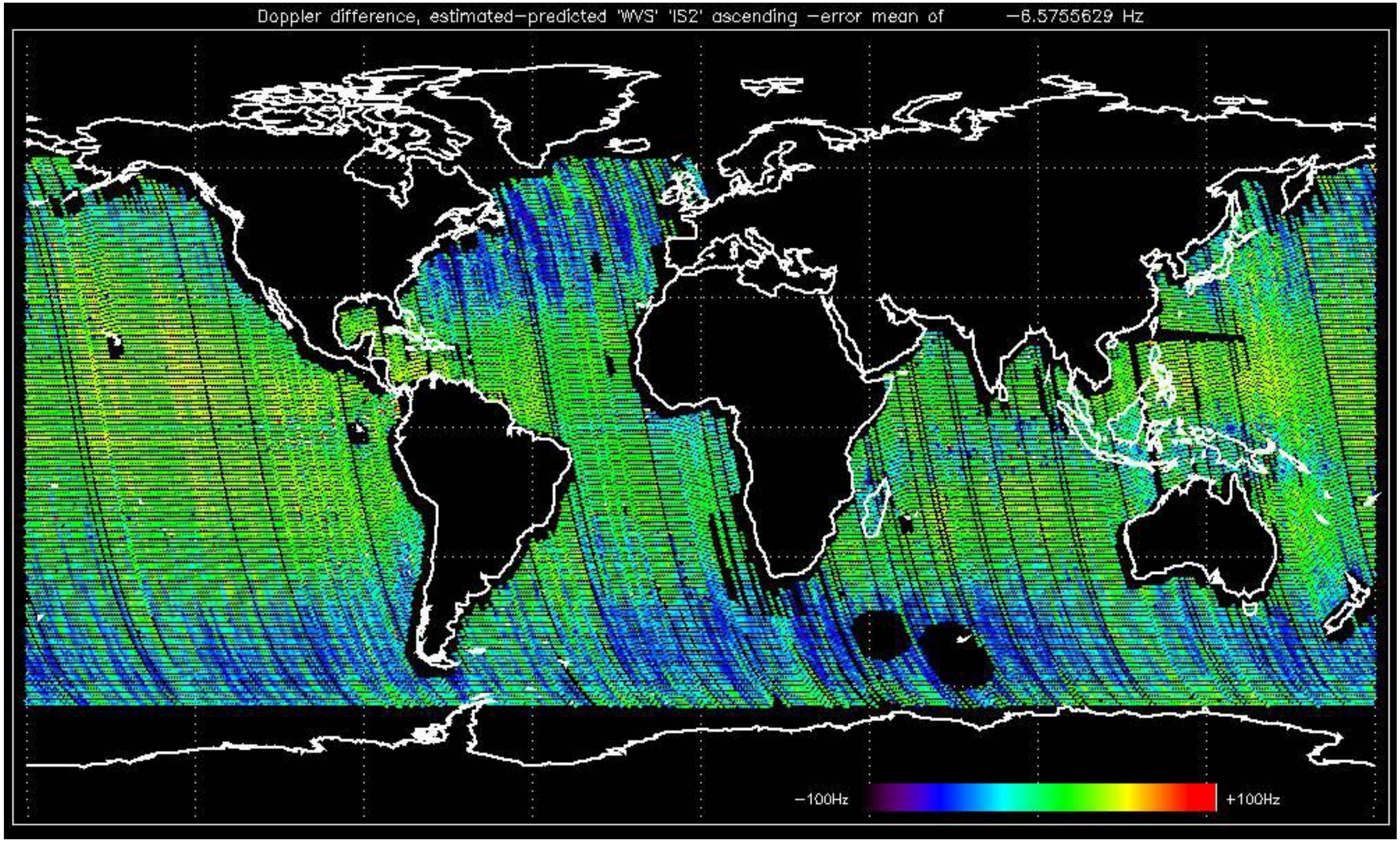

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

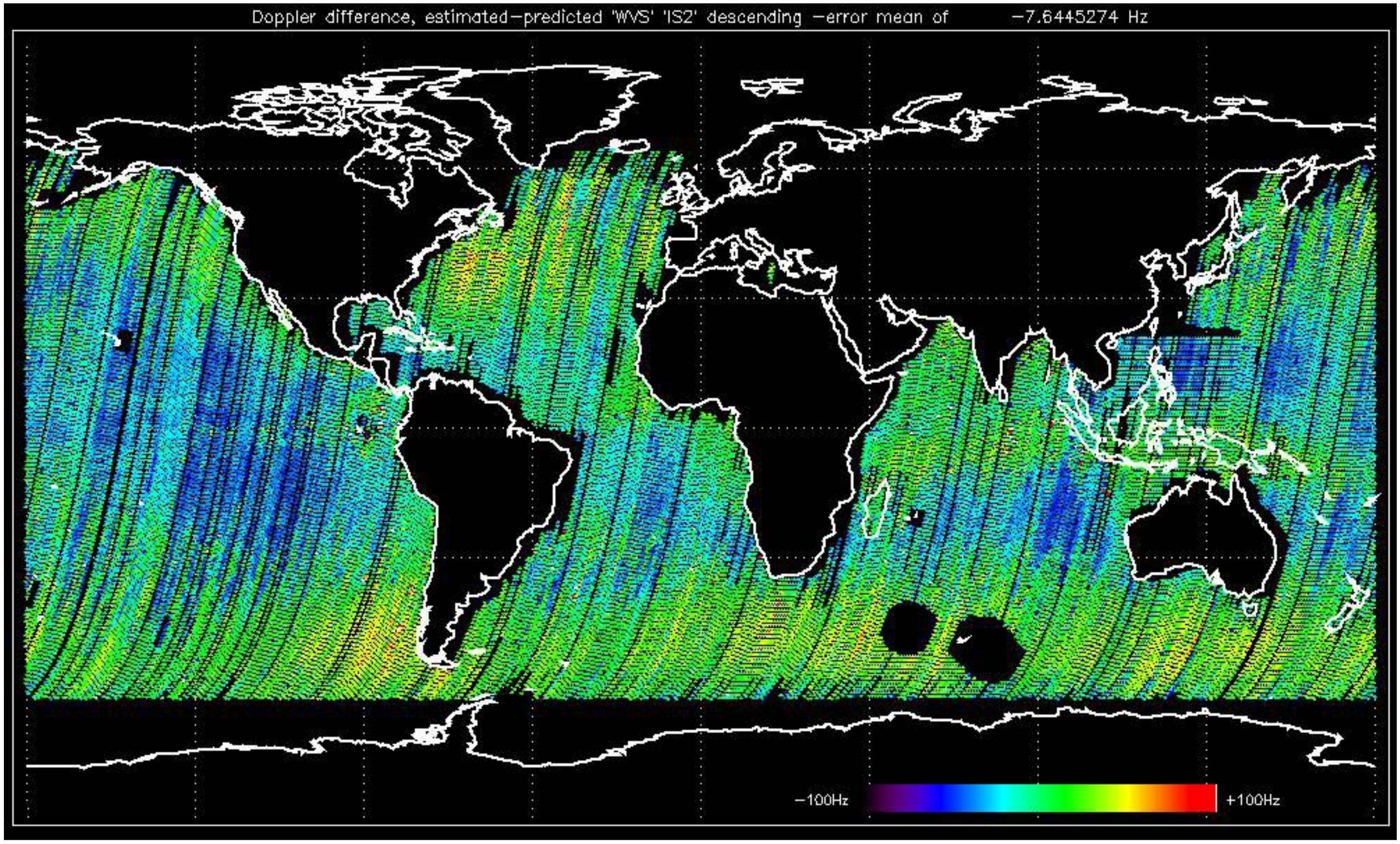

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX
Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX
Doppler Bias[Hz]
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
18−Mar
Date


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]
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
18−Mar
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −8.9931880 Hz
−100Hz
+100Hz

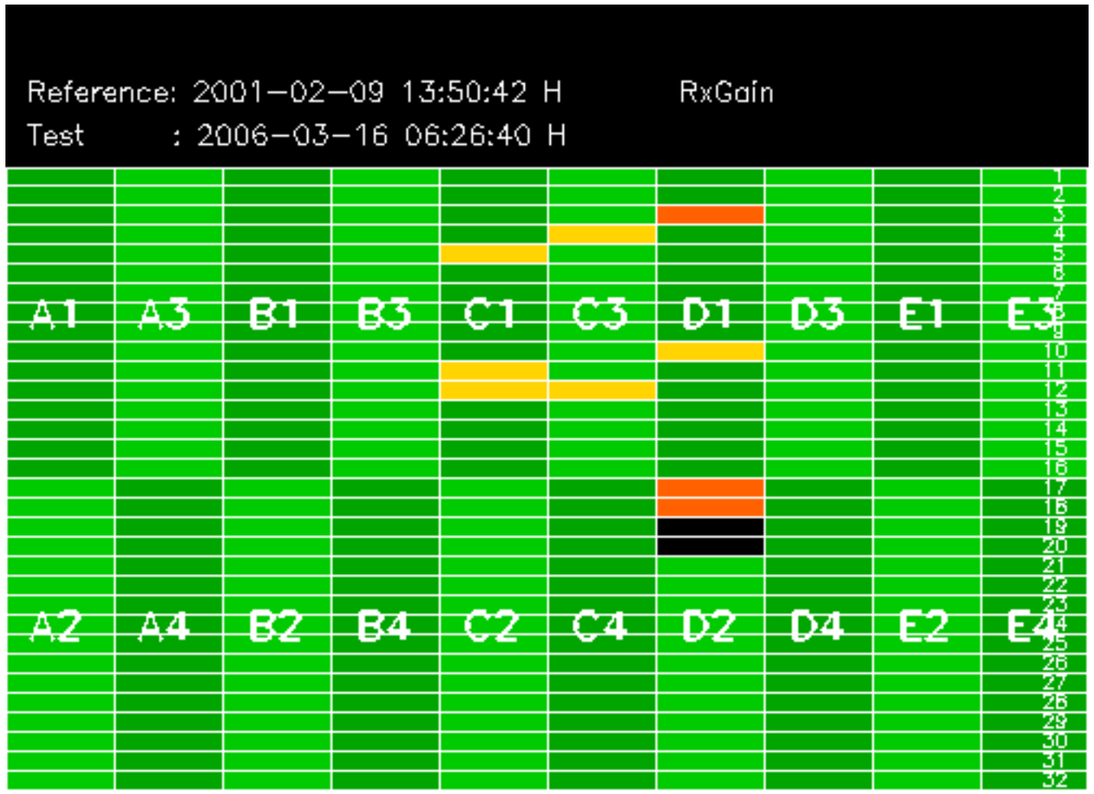

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −7.4101849 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −6.5755629 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −7.6445274 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-03-16 06:26:40 H
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
7
8
9
10
11
12
13
14
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16
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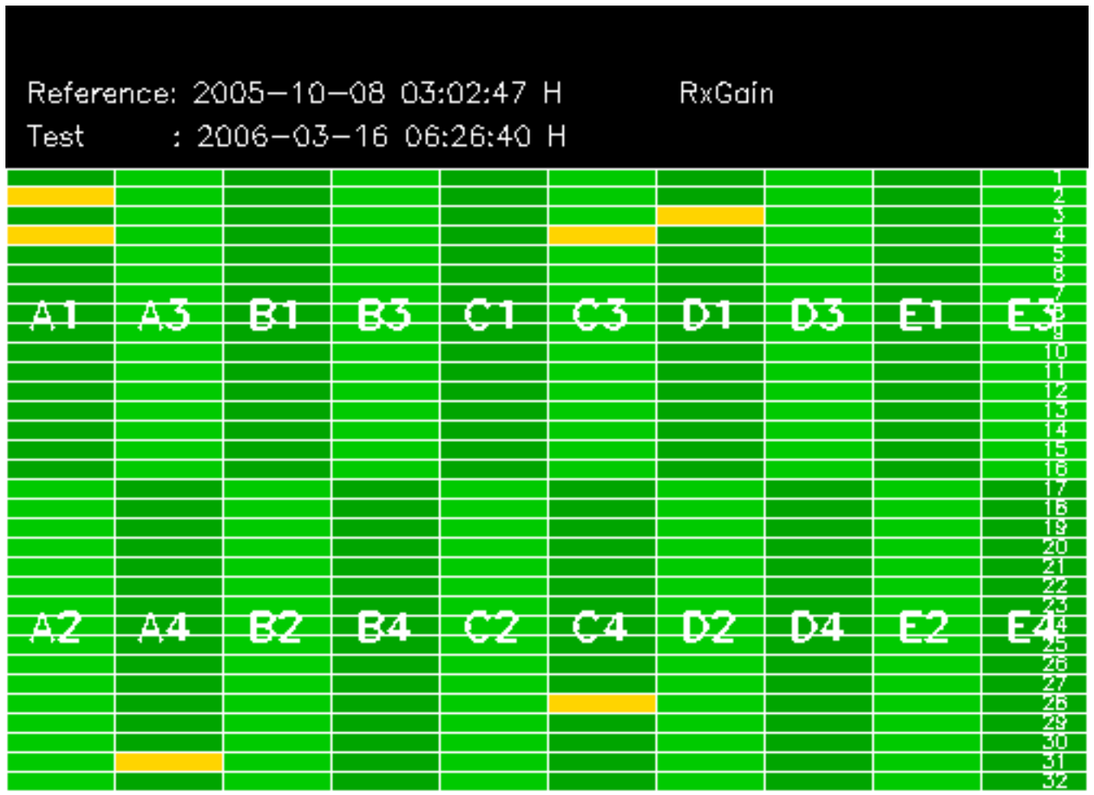
Reference: 2005-10-08 03:02:47 H
Test : 2006-03-16 06:26:40 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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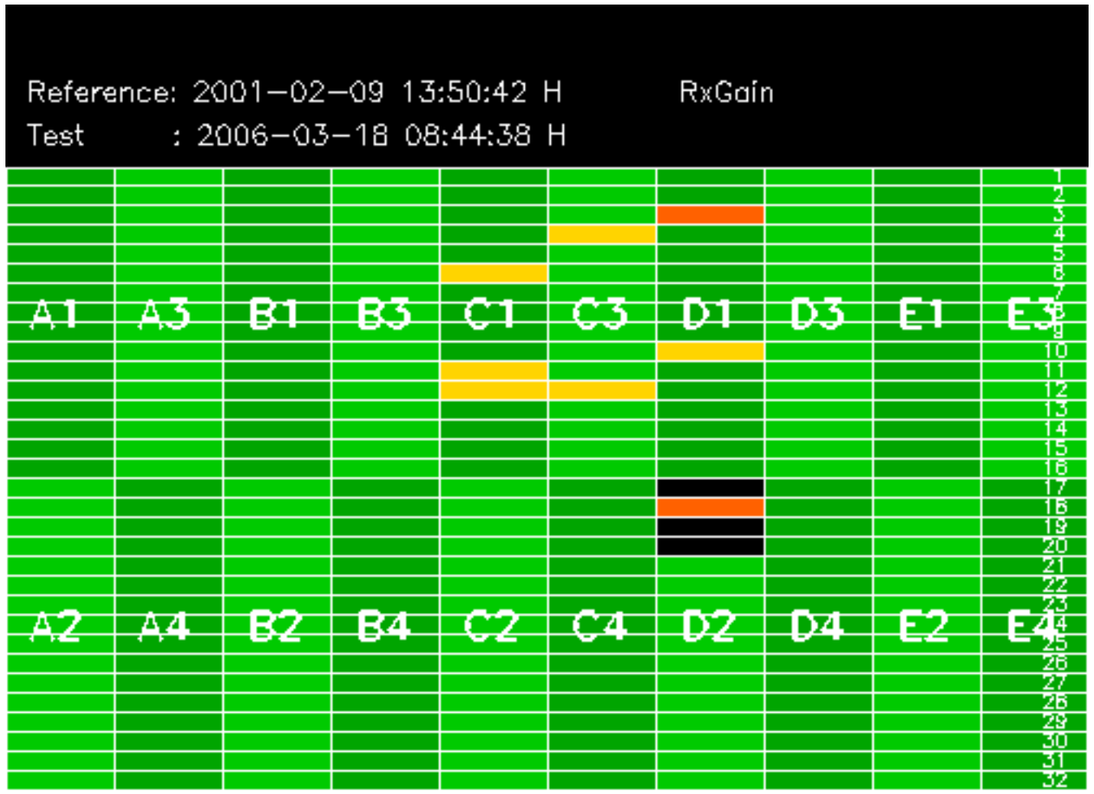
Reference: 2001-02-09 13:50:42 H
Test : 2006-03-18 08:44:38 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
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A2
A4
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B4
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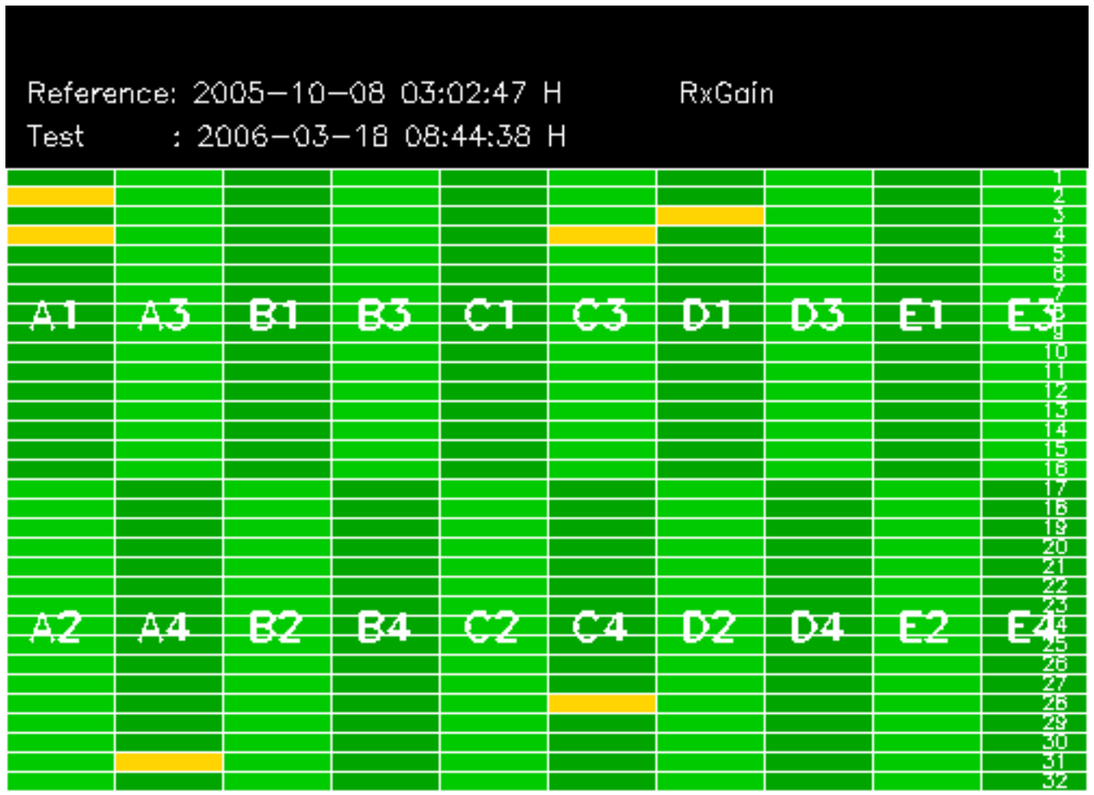
Reference: 2005-10-08 03:02:47 H
Test : 2006-03-18 08:44:38 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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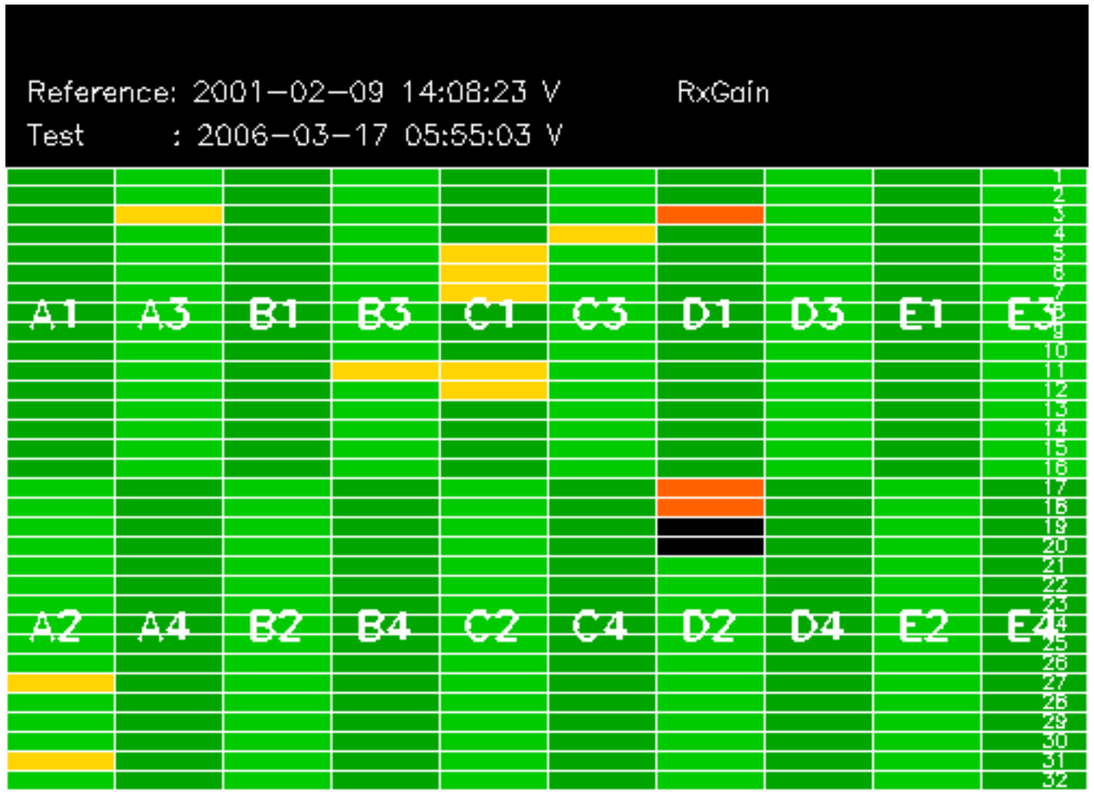
Reference: 2001-02-09 14:08:23 V
Test : 2006-03-17 05:55:03 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
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A2
A4
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B4
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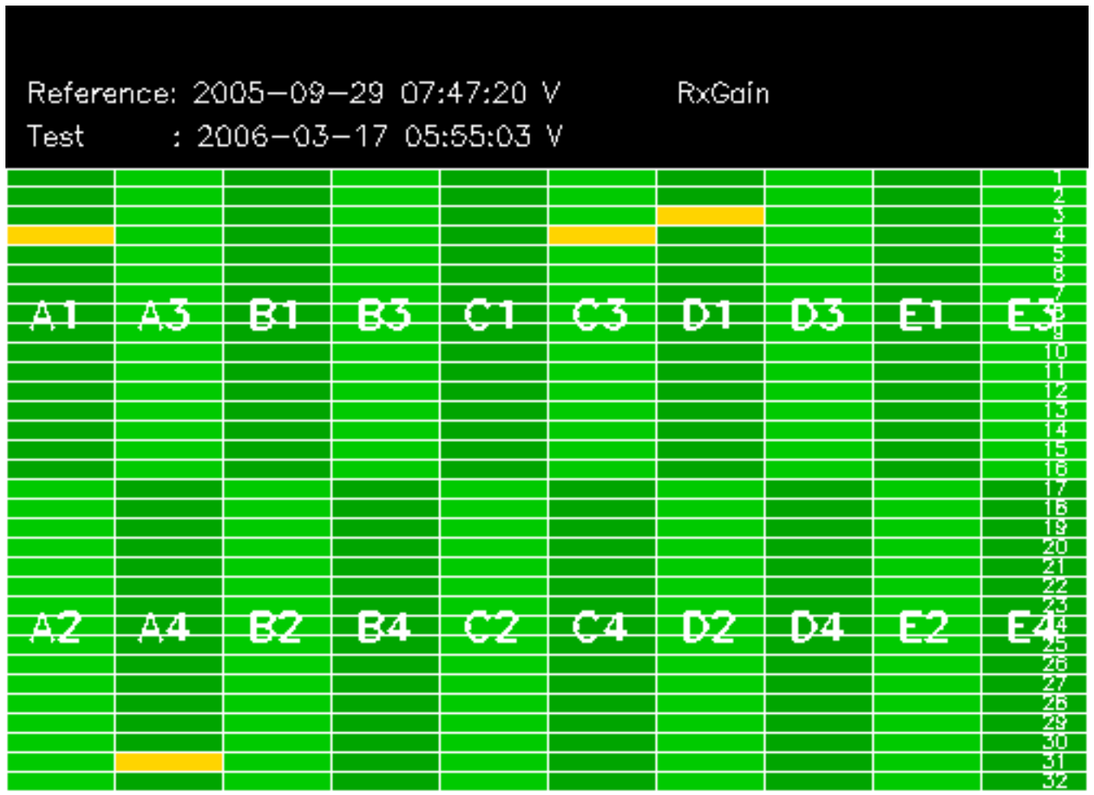
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-17 05:55:03 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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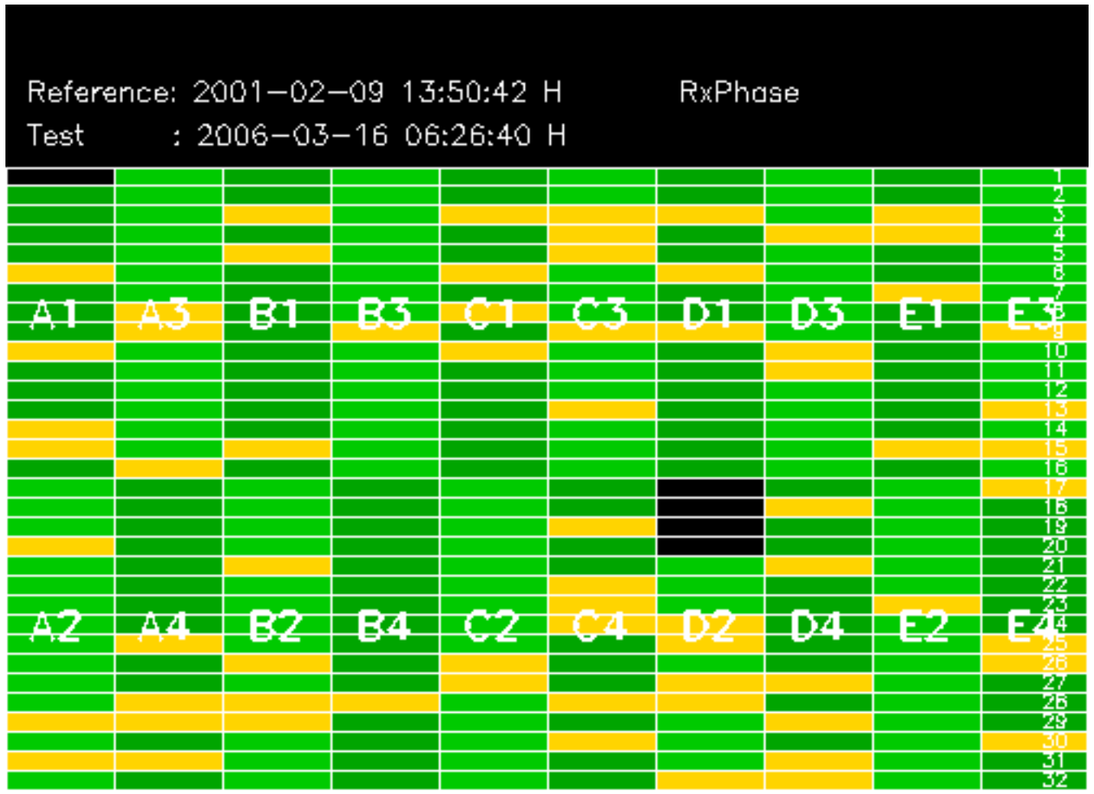
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-03-16 06:26:40 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
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A2
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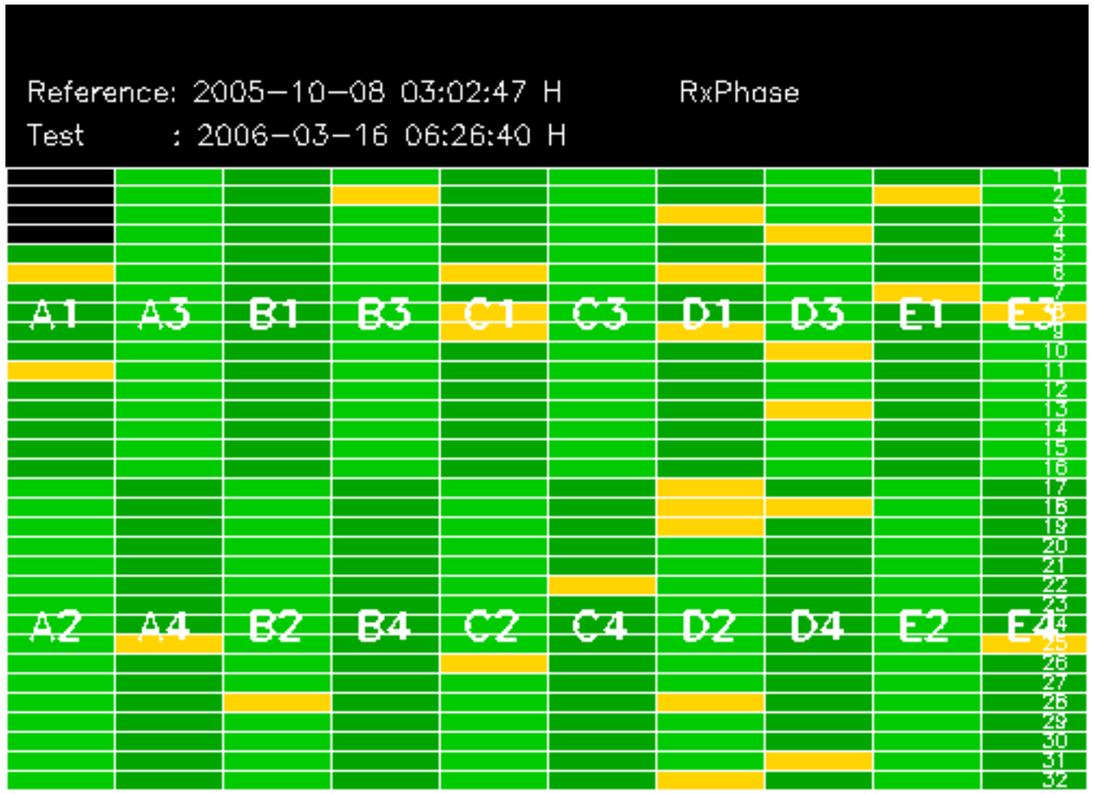
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-03-16 06:26:40 H
A1
A3
B1
B3
C1
C3
D1
D3
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A2
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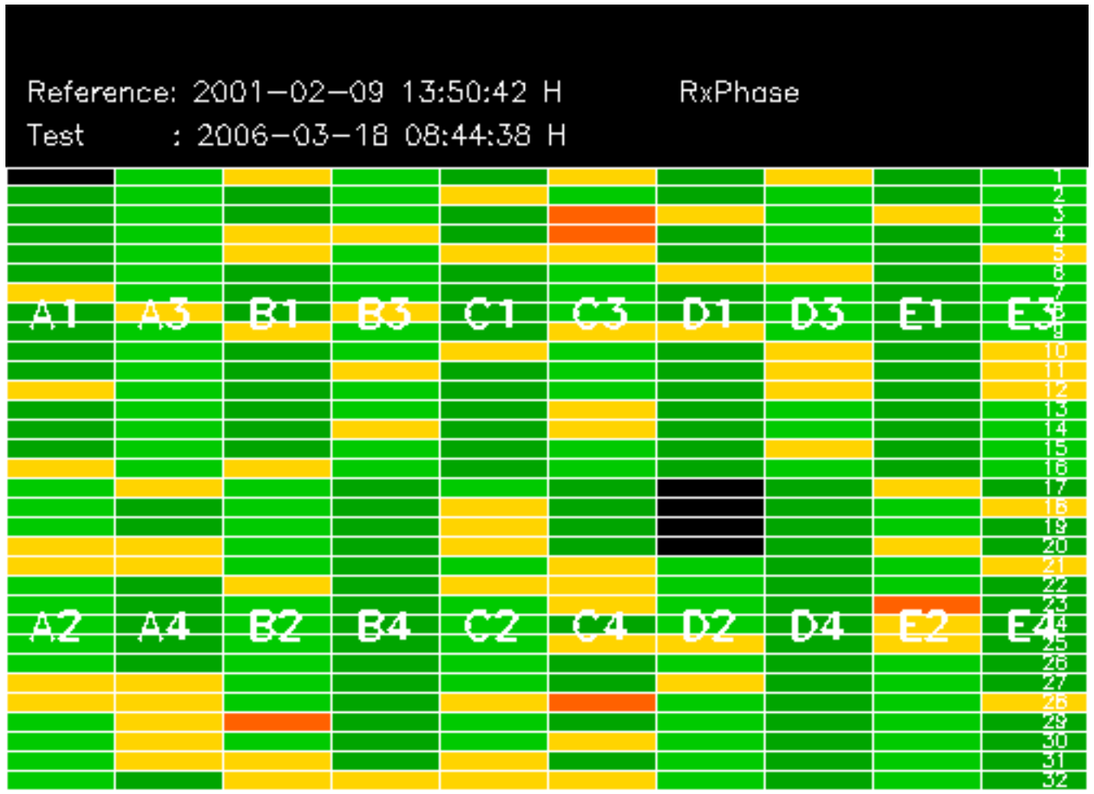
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-03-18 08:44:38 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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B4
C2
C4
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D4
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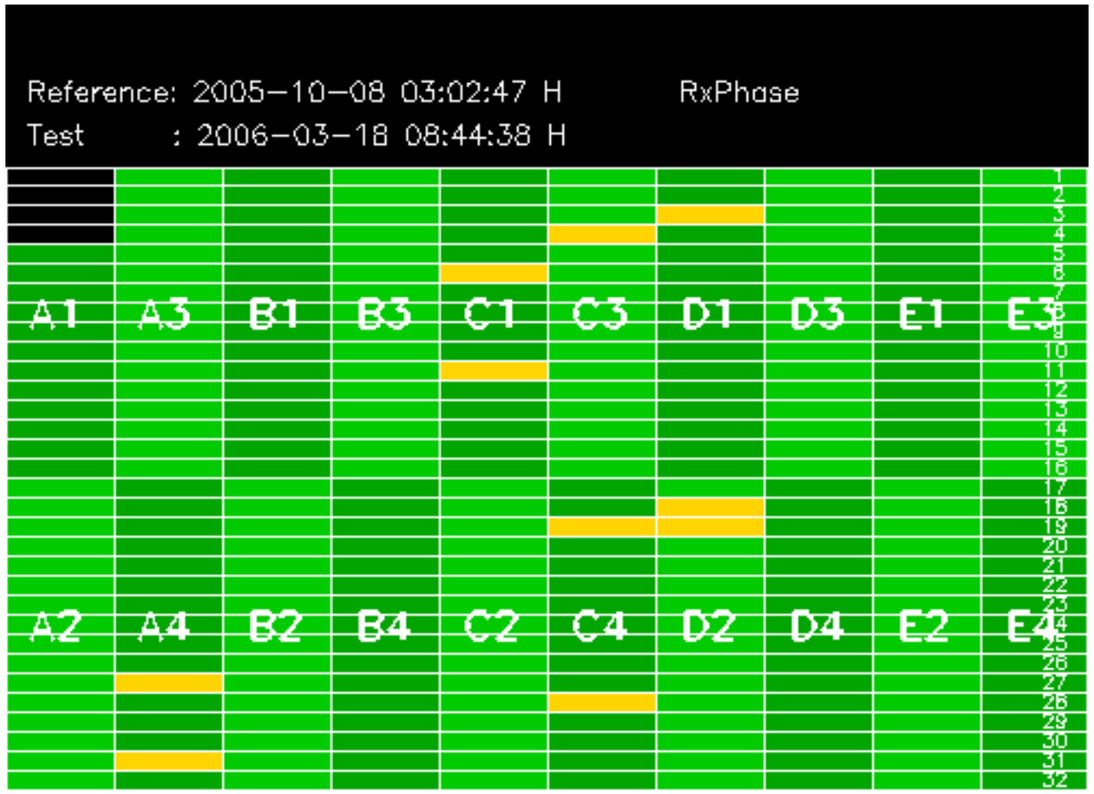
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-03-18 08:44:38 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
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B2
B4
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C4
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D4
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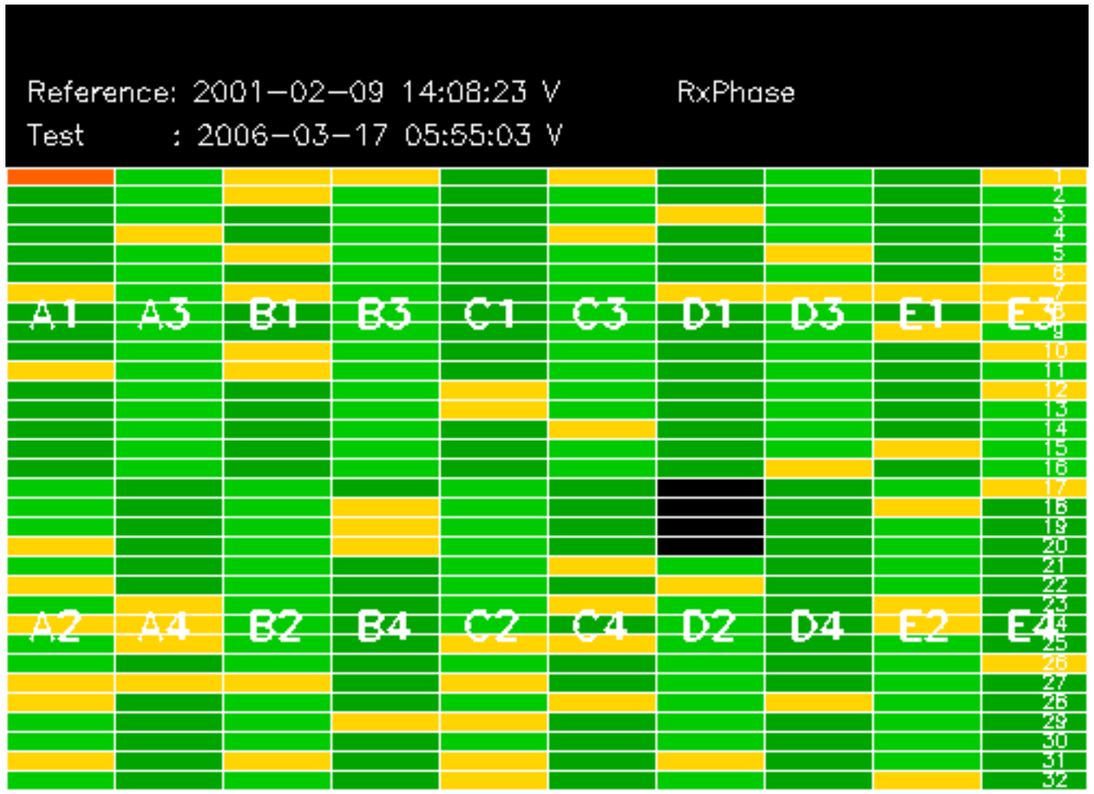
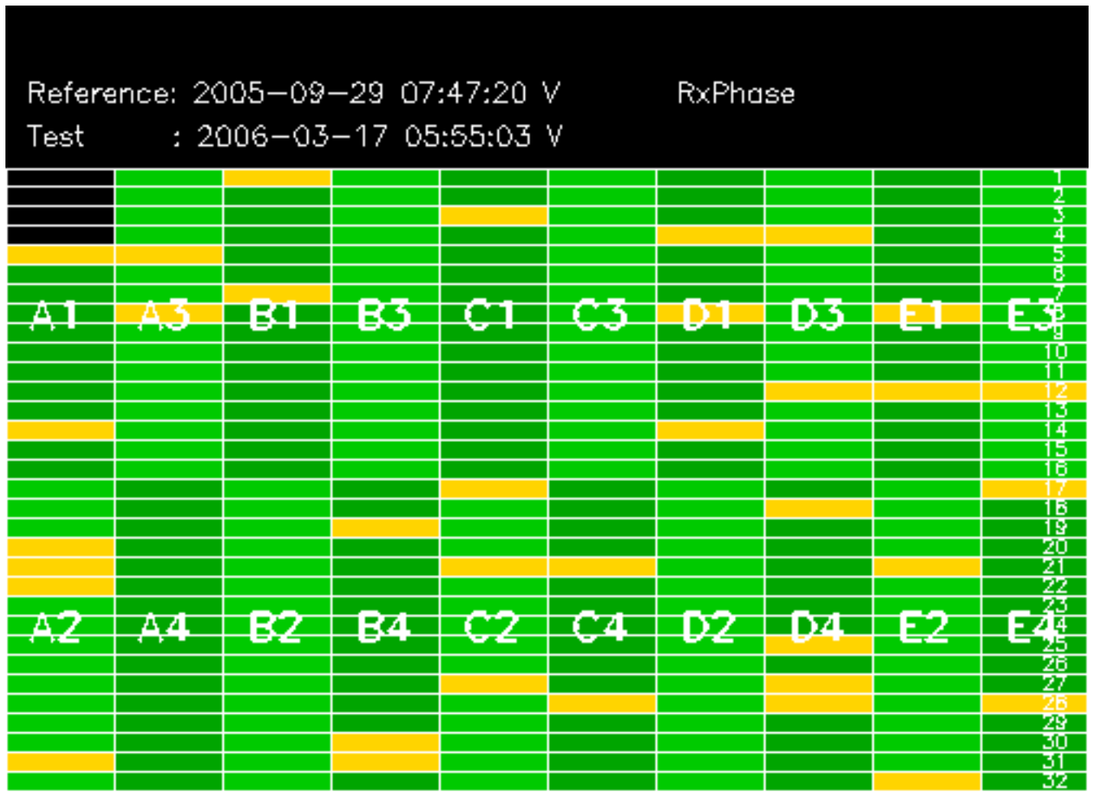

Reference: 2001-02-09 14:08:23 V
Test : 2006-03-17 05:55:03 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-03-17 05:55:03 V
RxPhase
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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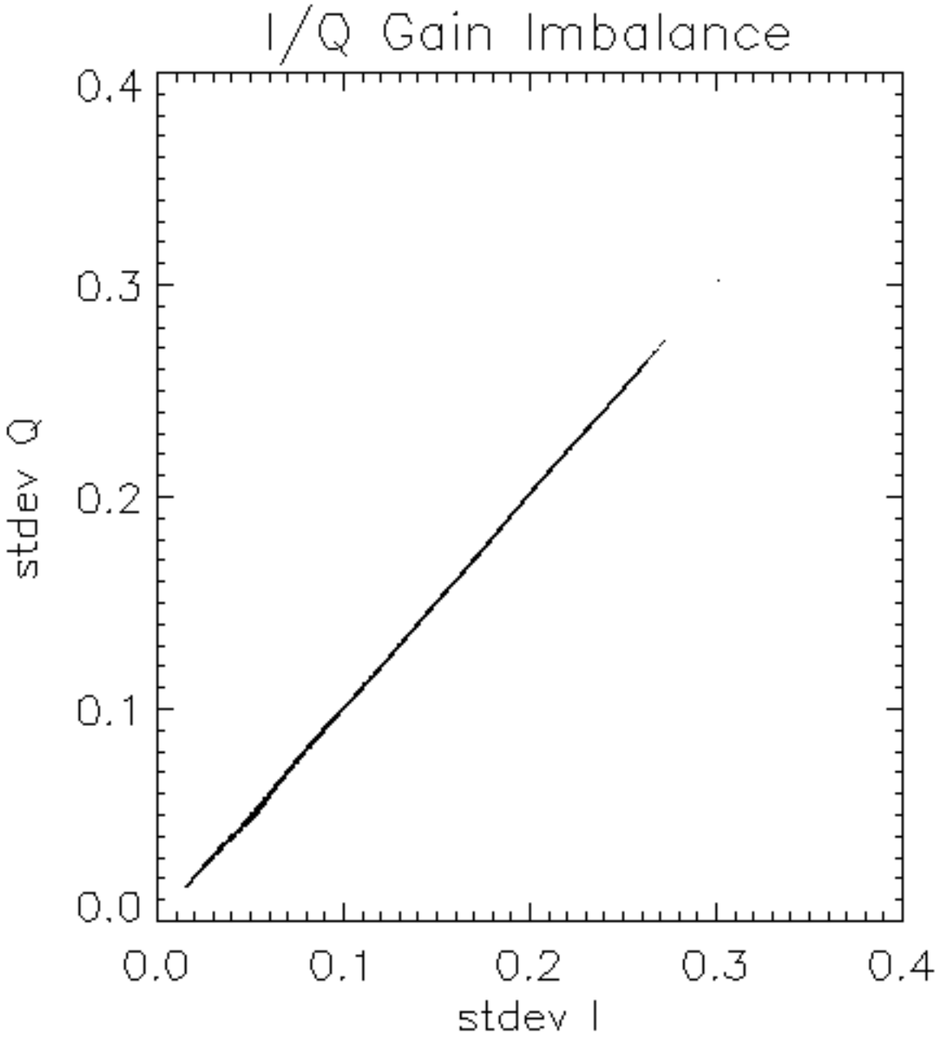
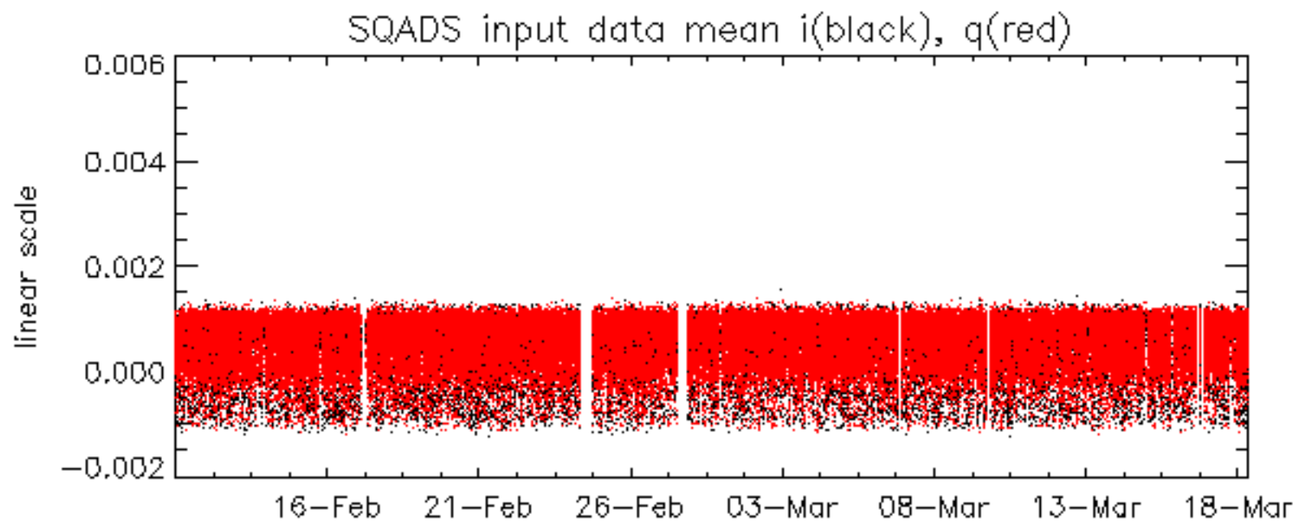
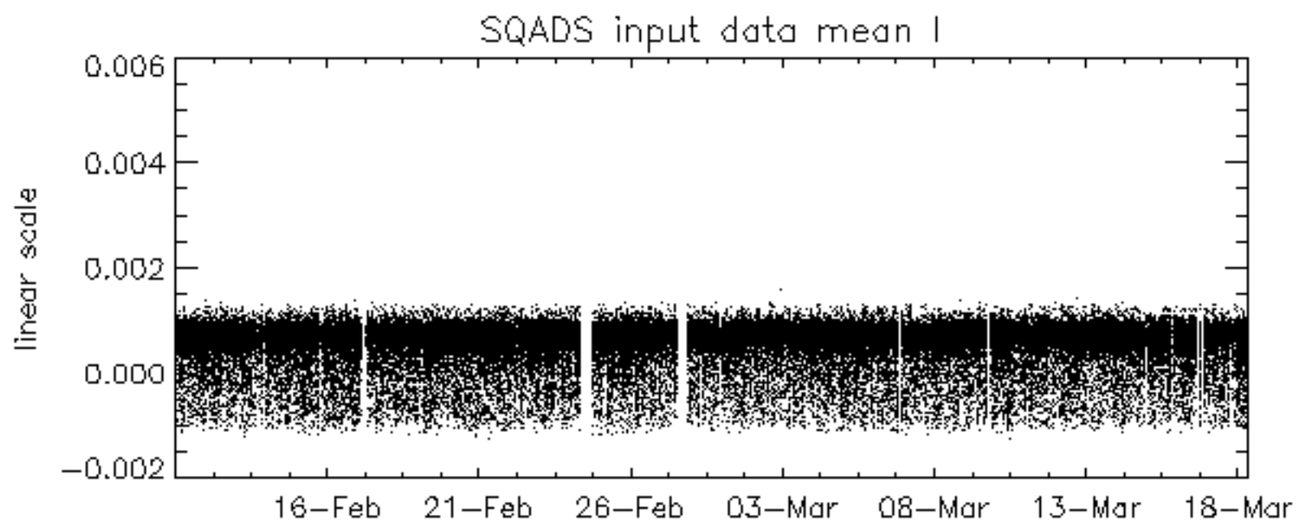
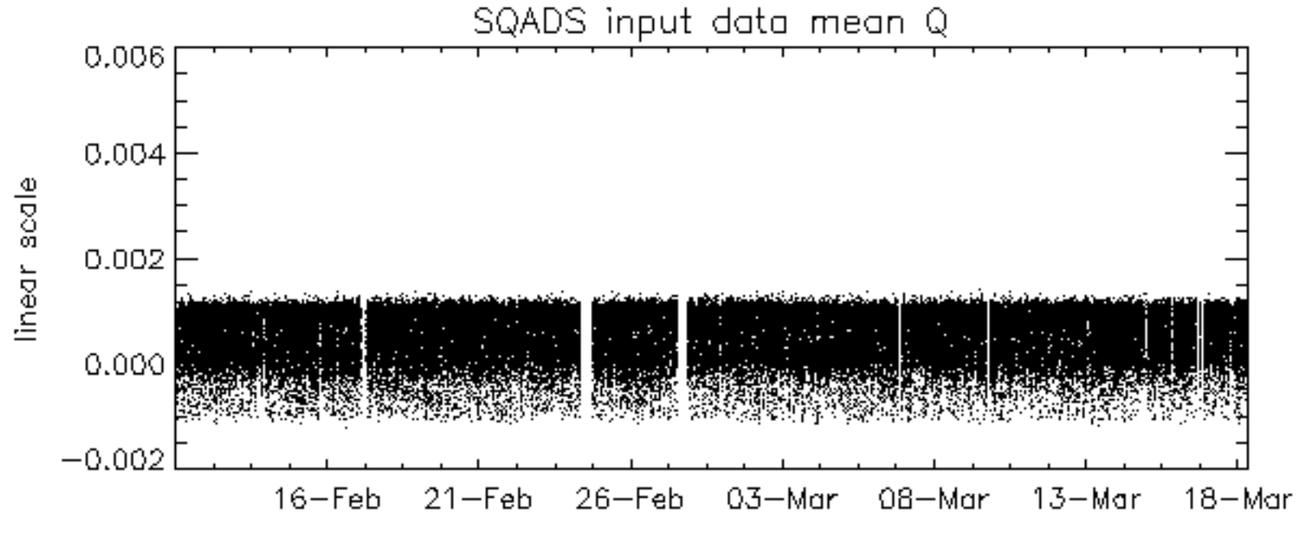
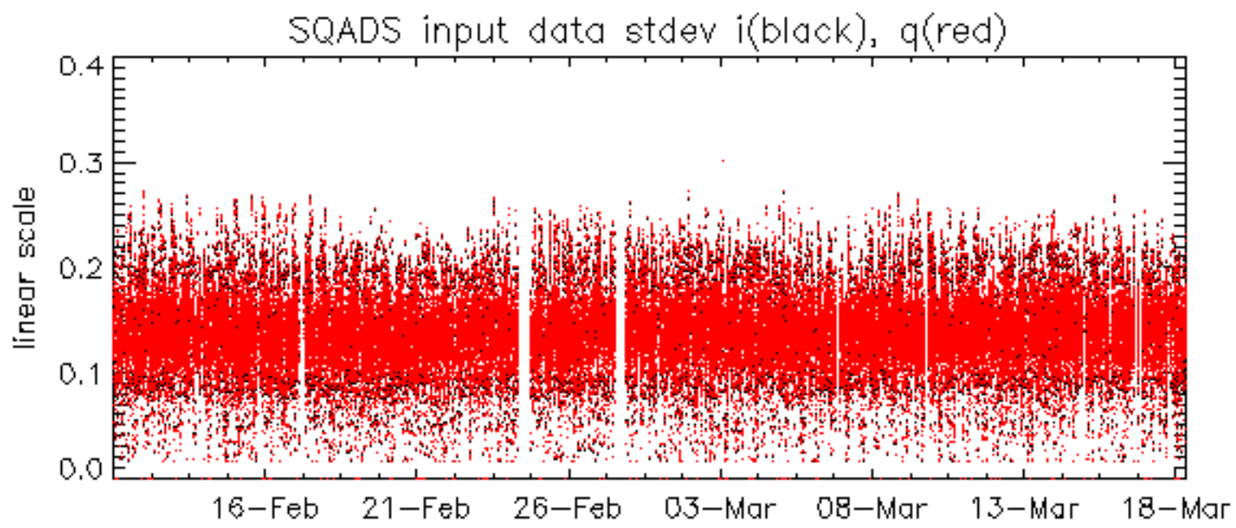
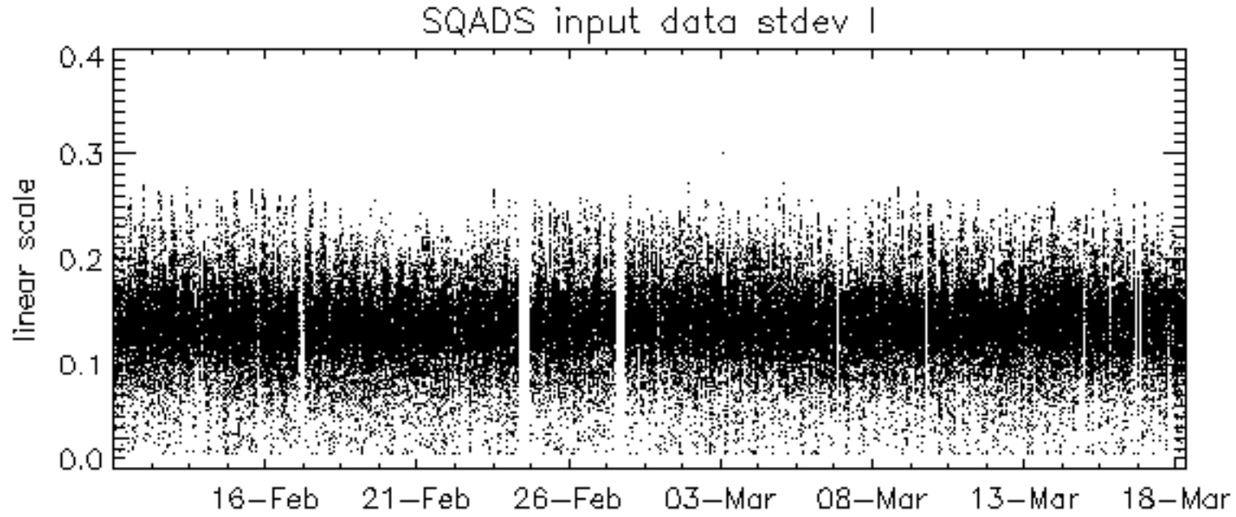

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

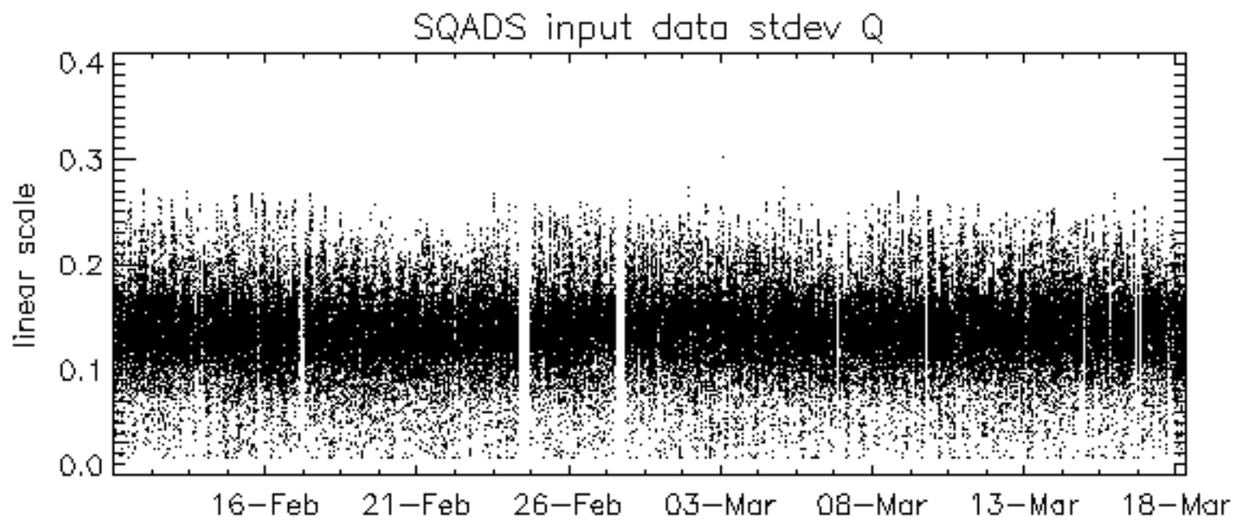

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar

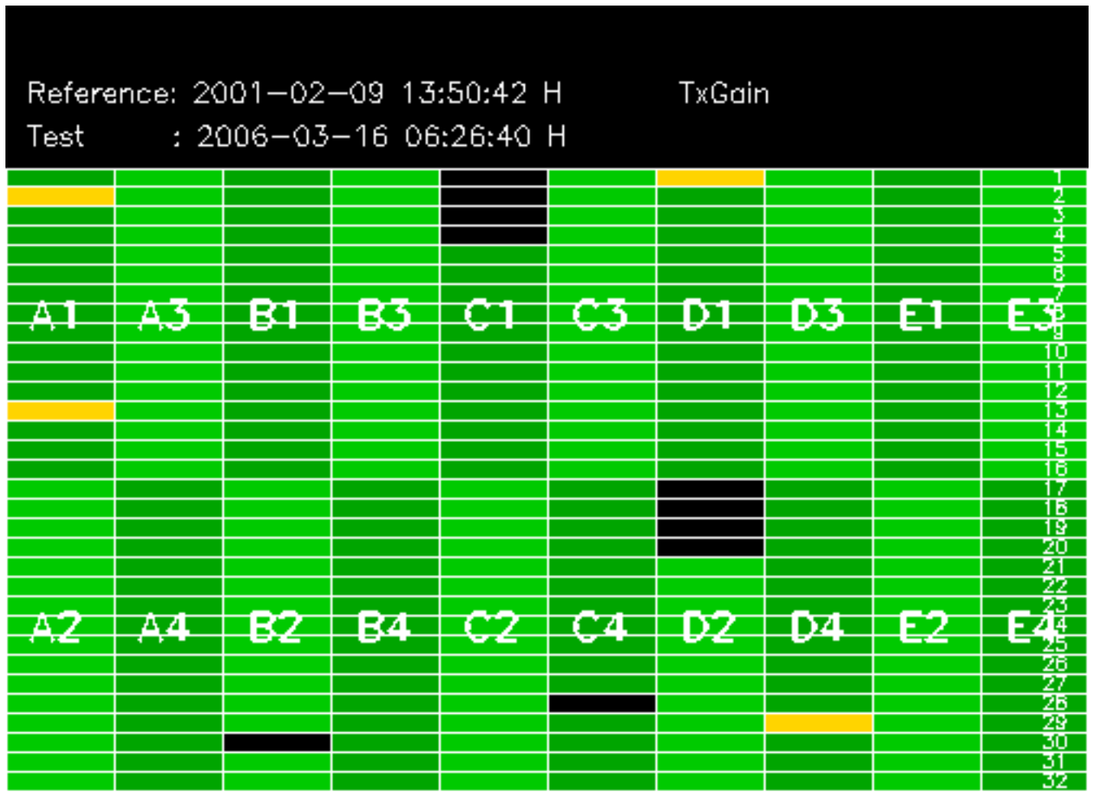

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar


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


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


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar


Reference: 2001-02-09 13:50:42 H
Test : 2006-03-16 06:26:40 H
TxGain
A1
A3
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B3
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C3
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D3
E1
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A2
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C4
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D4
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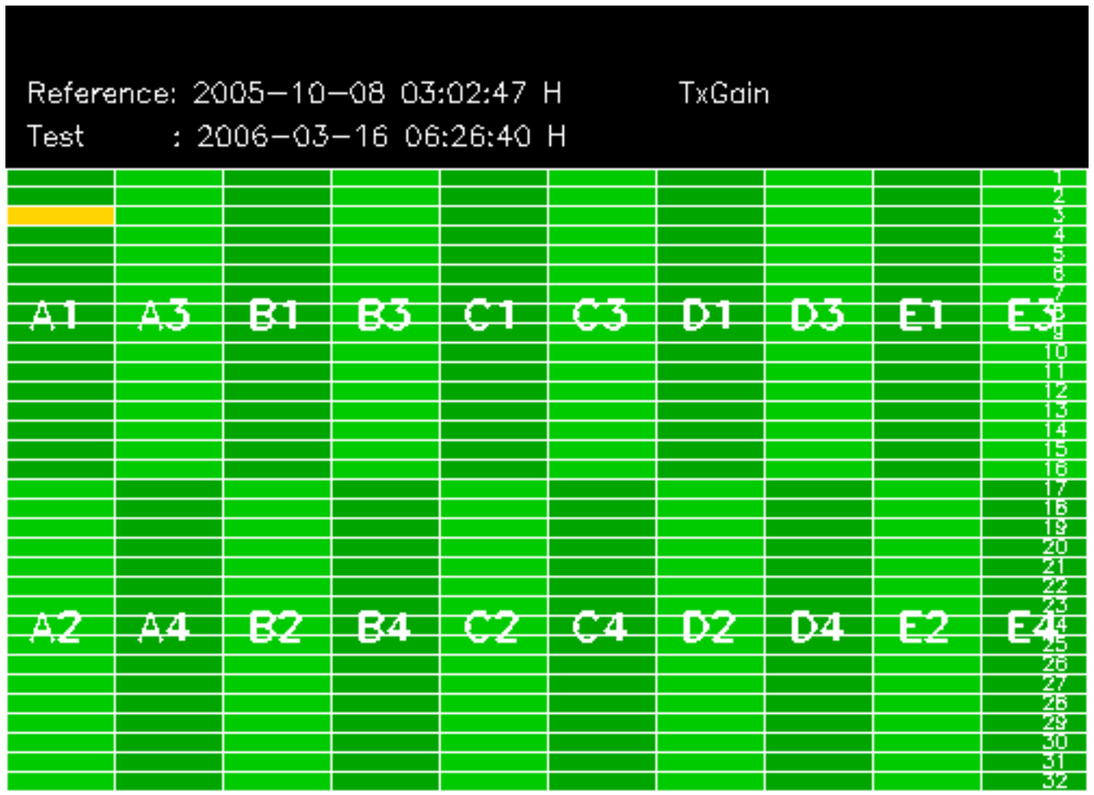
Reference: 2005-10-08 03:02:47 H
Test : 2006-03-16 06:26:40 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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B4
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C4
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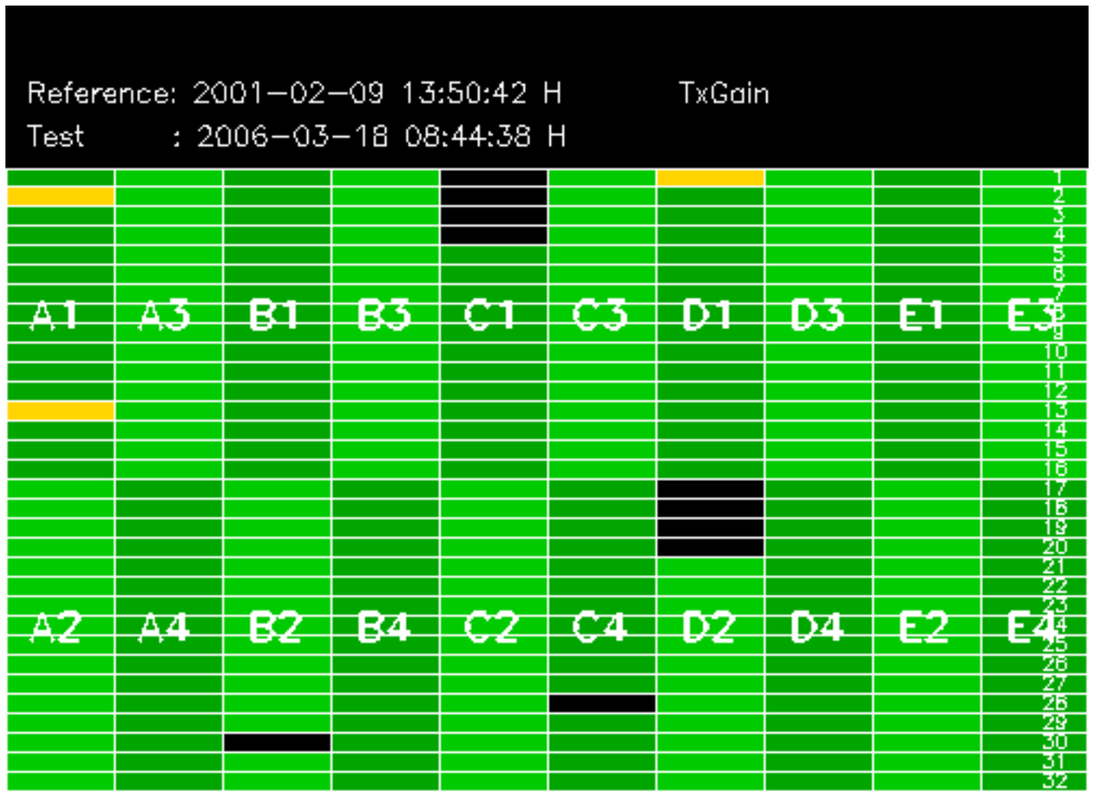
Reference: 2001-02-09 13:50:42 H
Test : 2006-03-18 08:44:38 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
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A2
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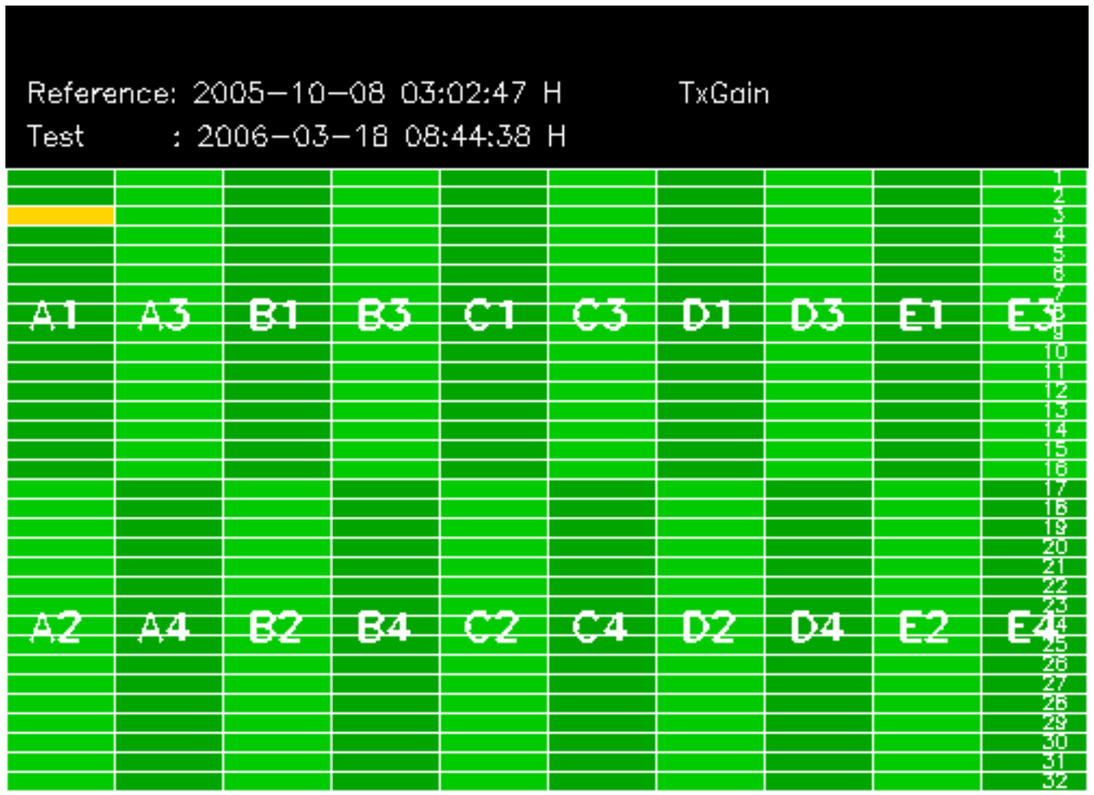
Reference: 2005-10-08 03:02:47 H
Test : 2006-03-18 08:44:38 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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B4
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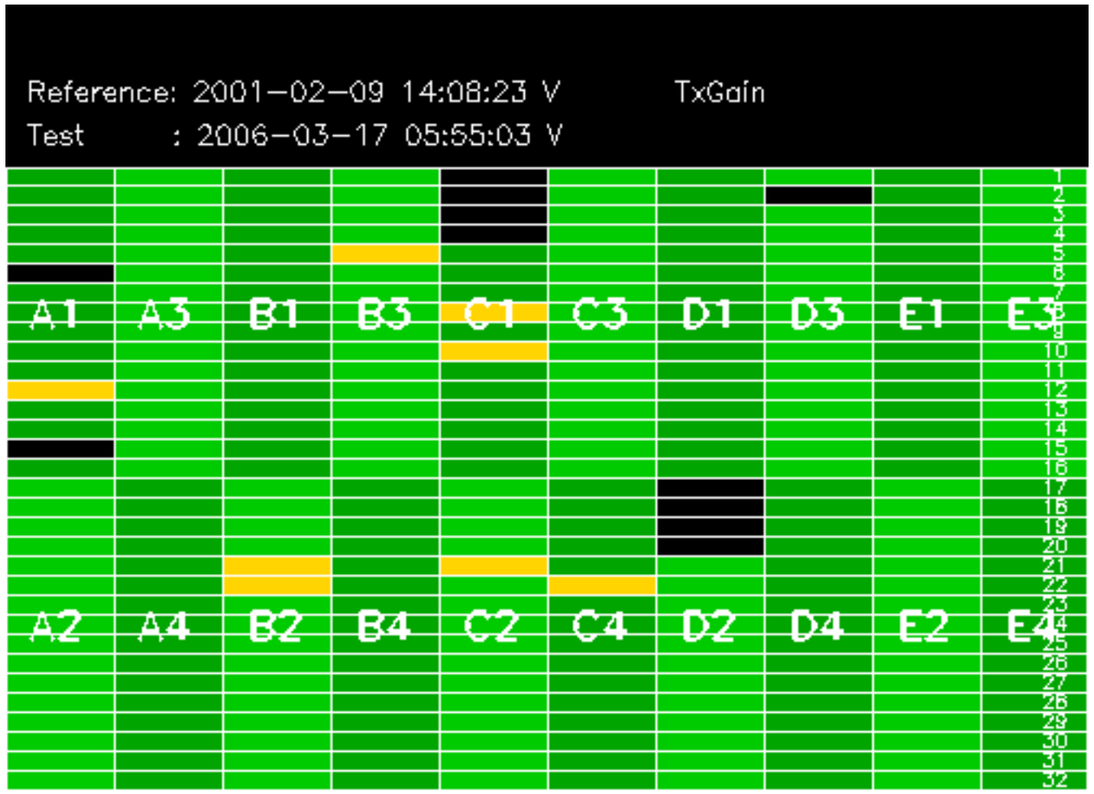
Reference: 2001-02-09 14:08:23 V
Test : 2006-03-17 05:55:03 V
TxGain
A1
A3
B1
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C3
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D3
E1
E3
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B4
C2
C4
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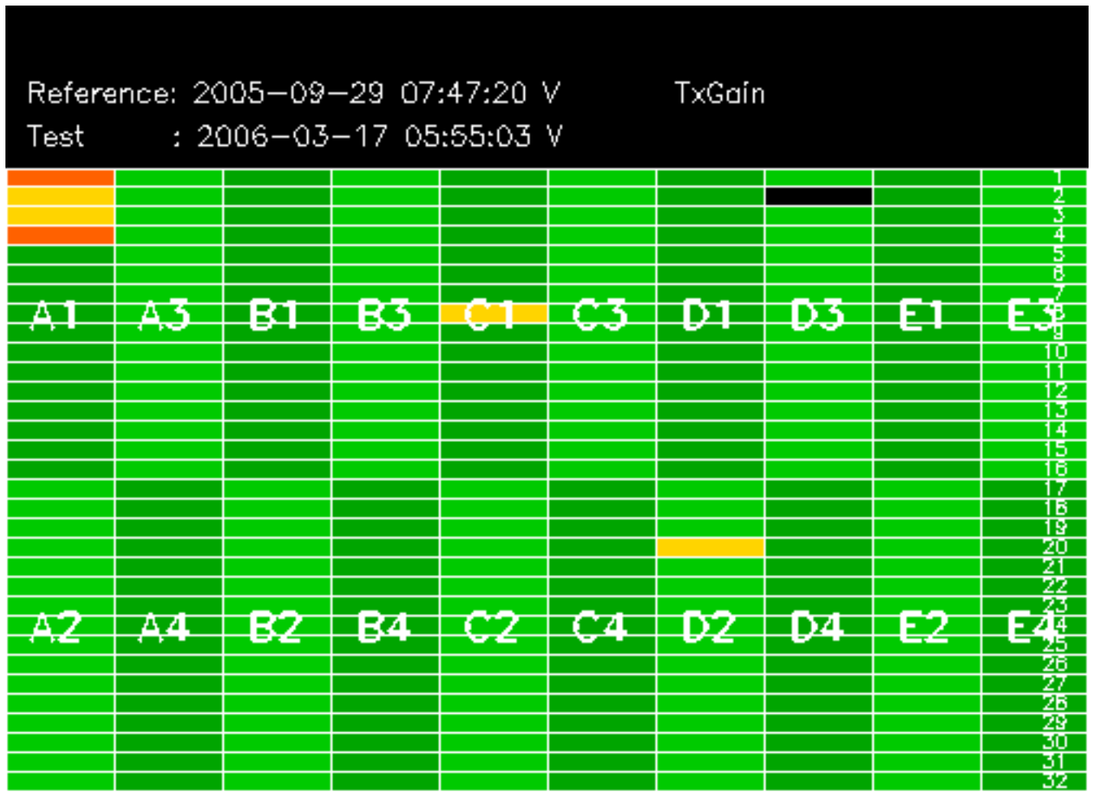
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-17 05:55:03 V
TxGain
A1
A3
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B3
C1
C3
D1
D3
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B4
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Summary of analysis for the last 3 days 2006031[678]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
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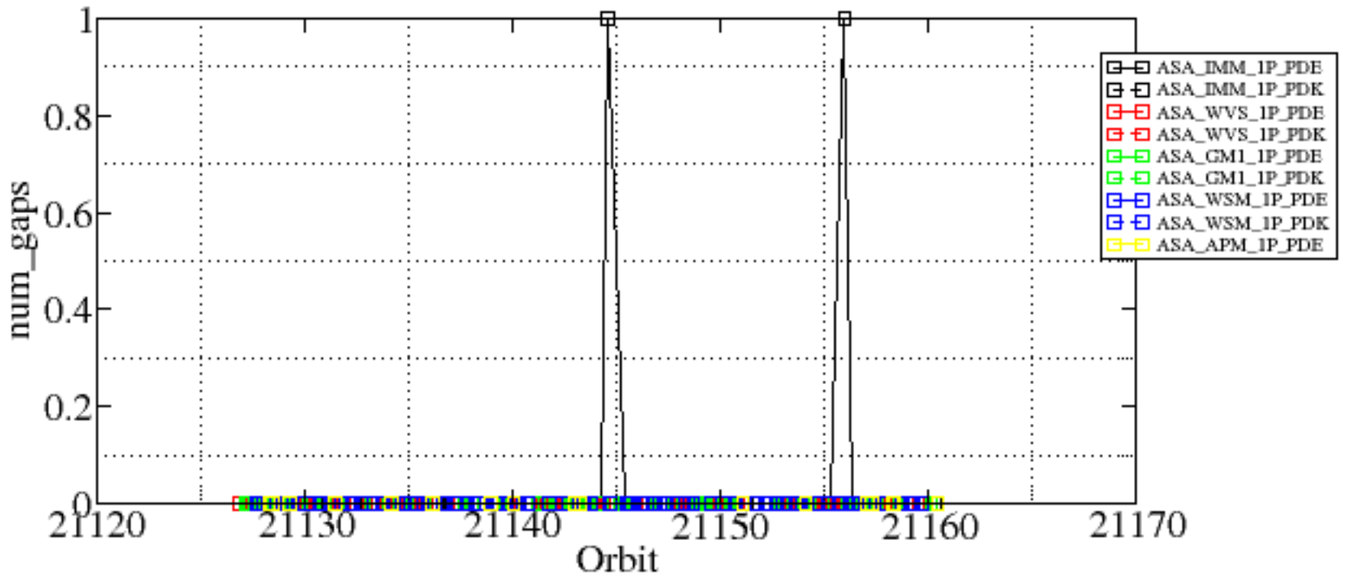
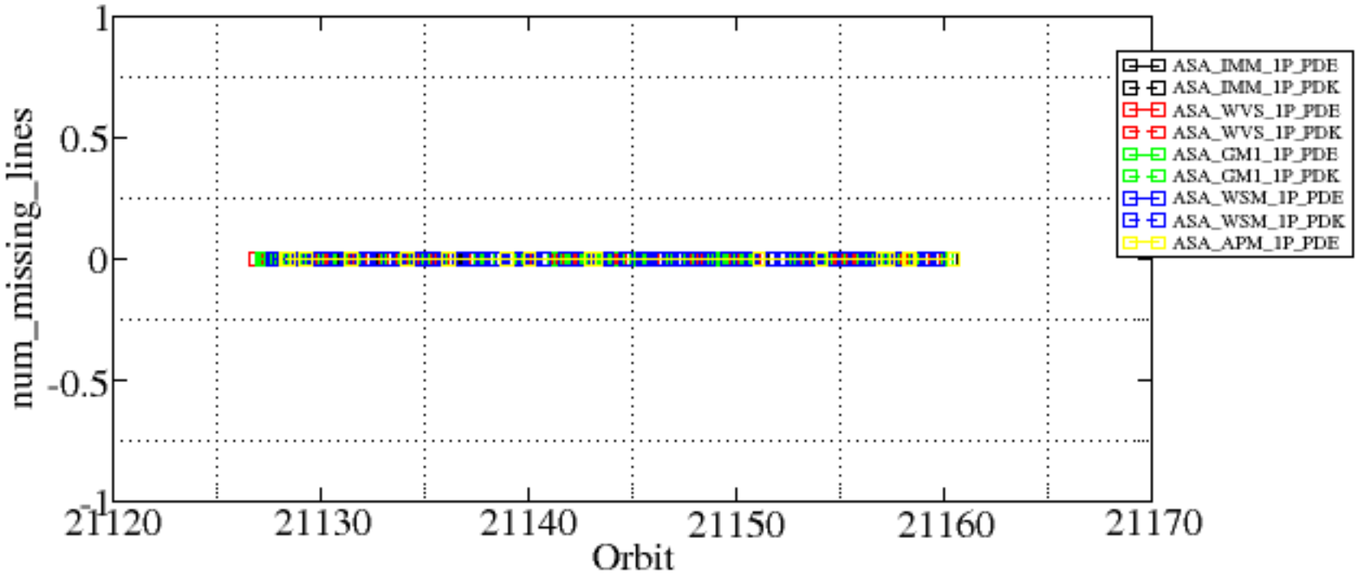
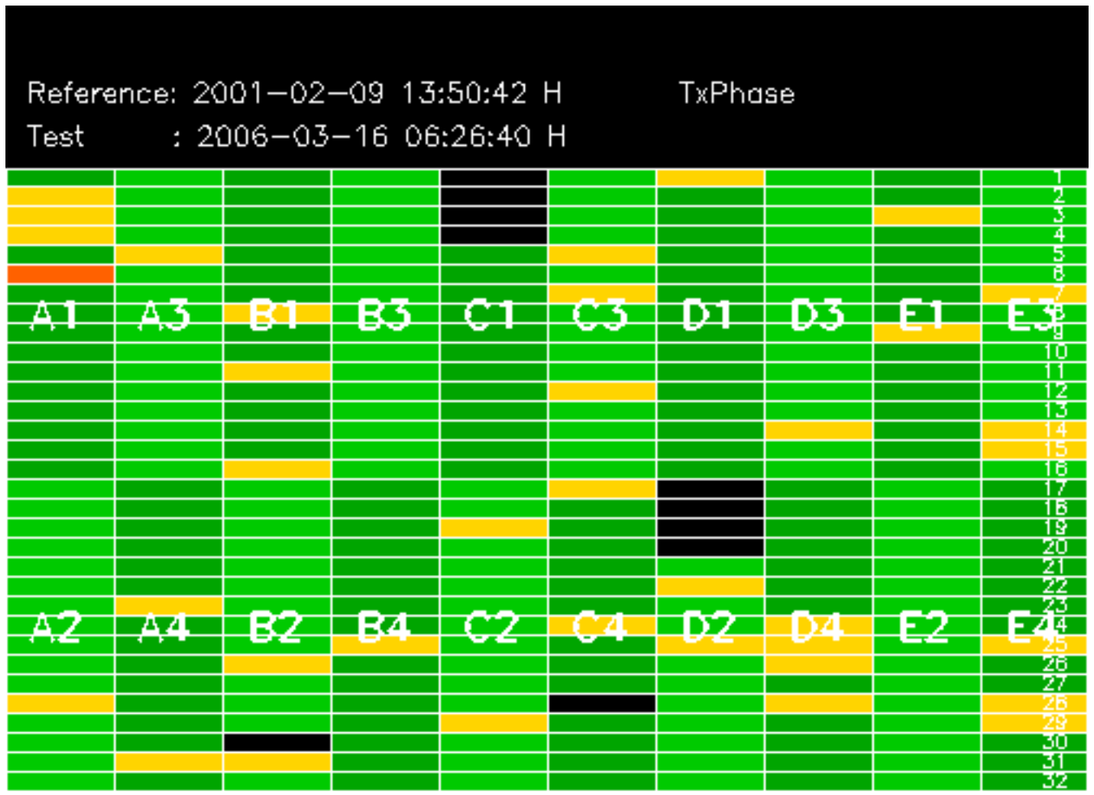

num_gaps
1
0.8
0.6
0.4
0.2
0
21120
21130
21140
21150
21160
21170
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


num_missing_lines
1
0.5
0
-0.5
-1
21120
21130
21140
21150
21160
21170
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 : 2006-03-16 06:26:40 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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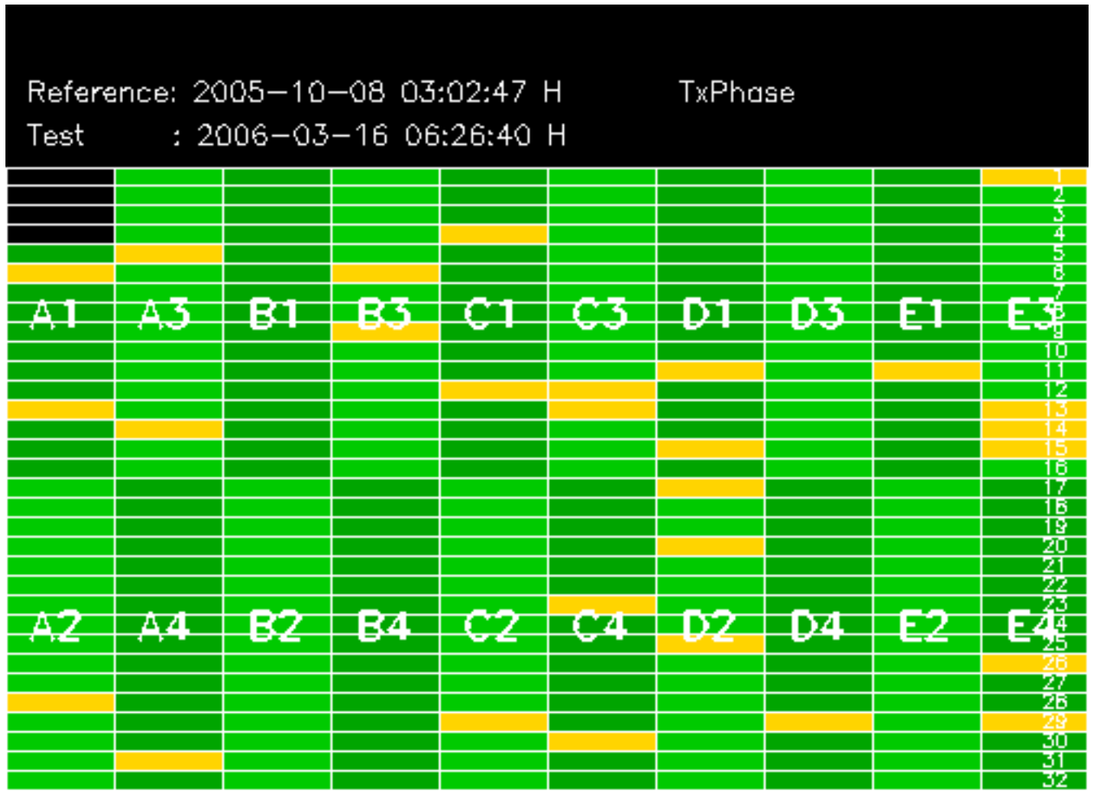
Reference: 2005-10-08 03:02:47 H
Test : 2006-03-16 06:26:40 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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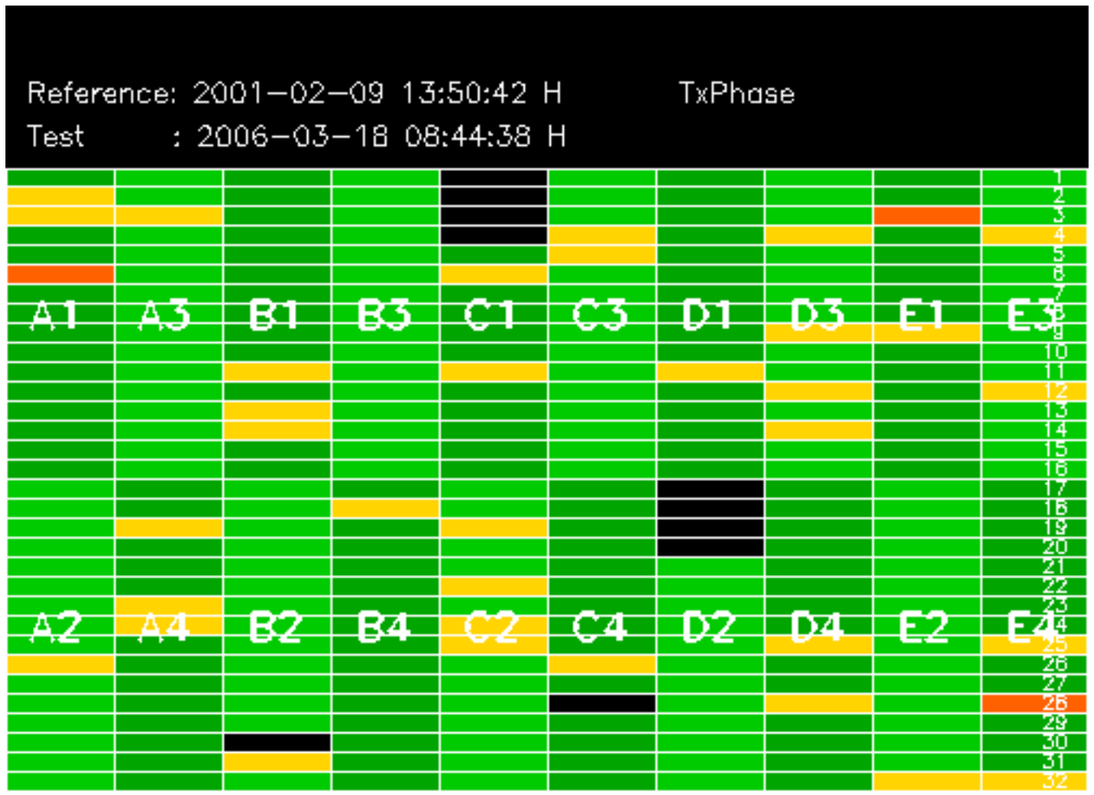
Reference: 2001-02-09 13:50:42 H
Test : 2006-03-18 08:44:38 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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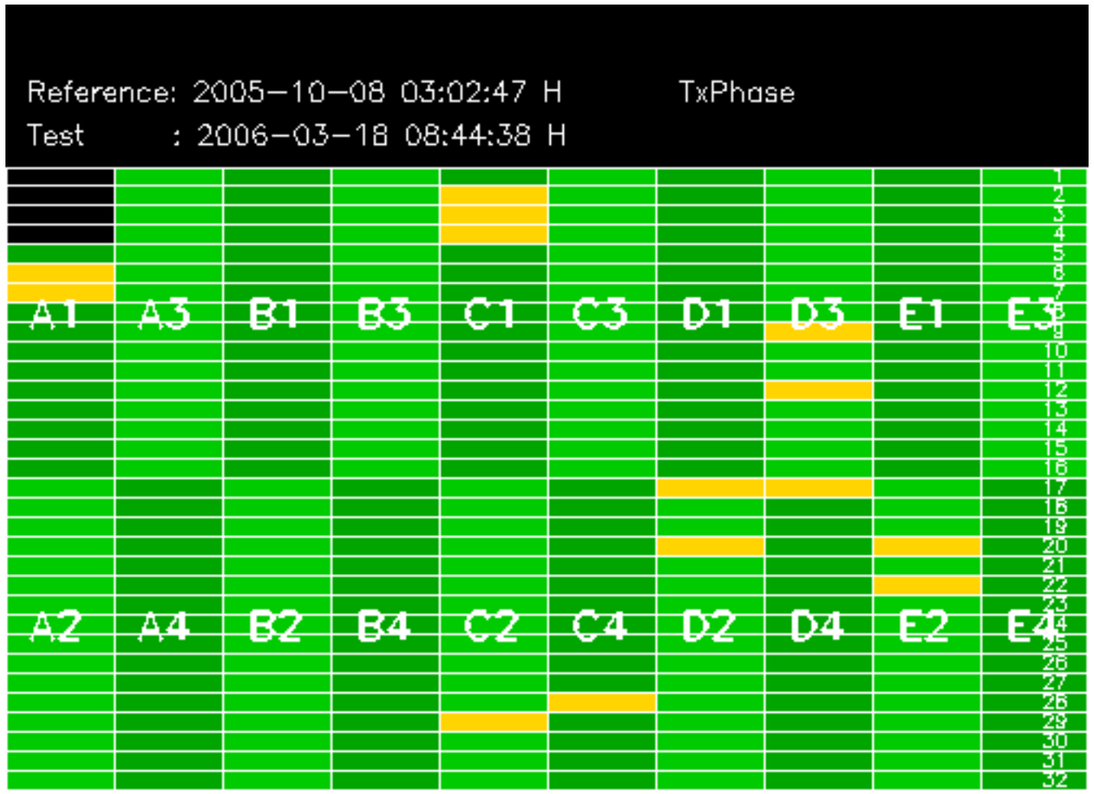
Reference: 2005-10-08 03:02:47 H
Test : 2006-03-18 08:44:38 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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Reference: 2001-02-09 14:08:23 V
Test : 2006-03-17 05:55:03 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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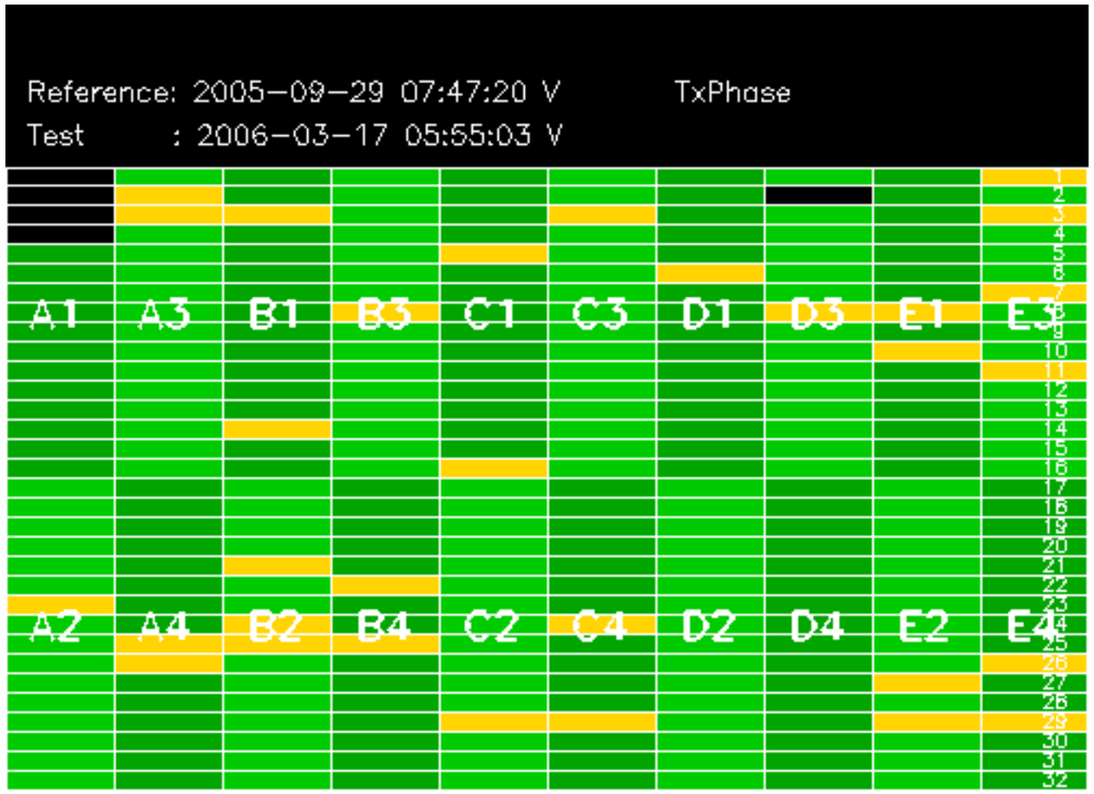
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-17 05:55:03 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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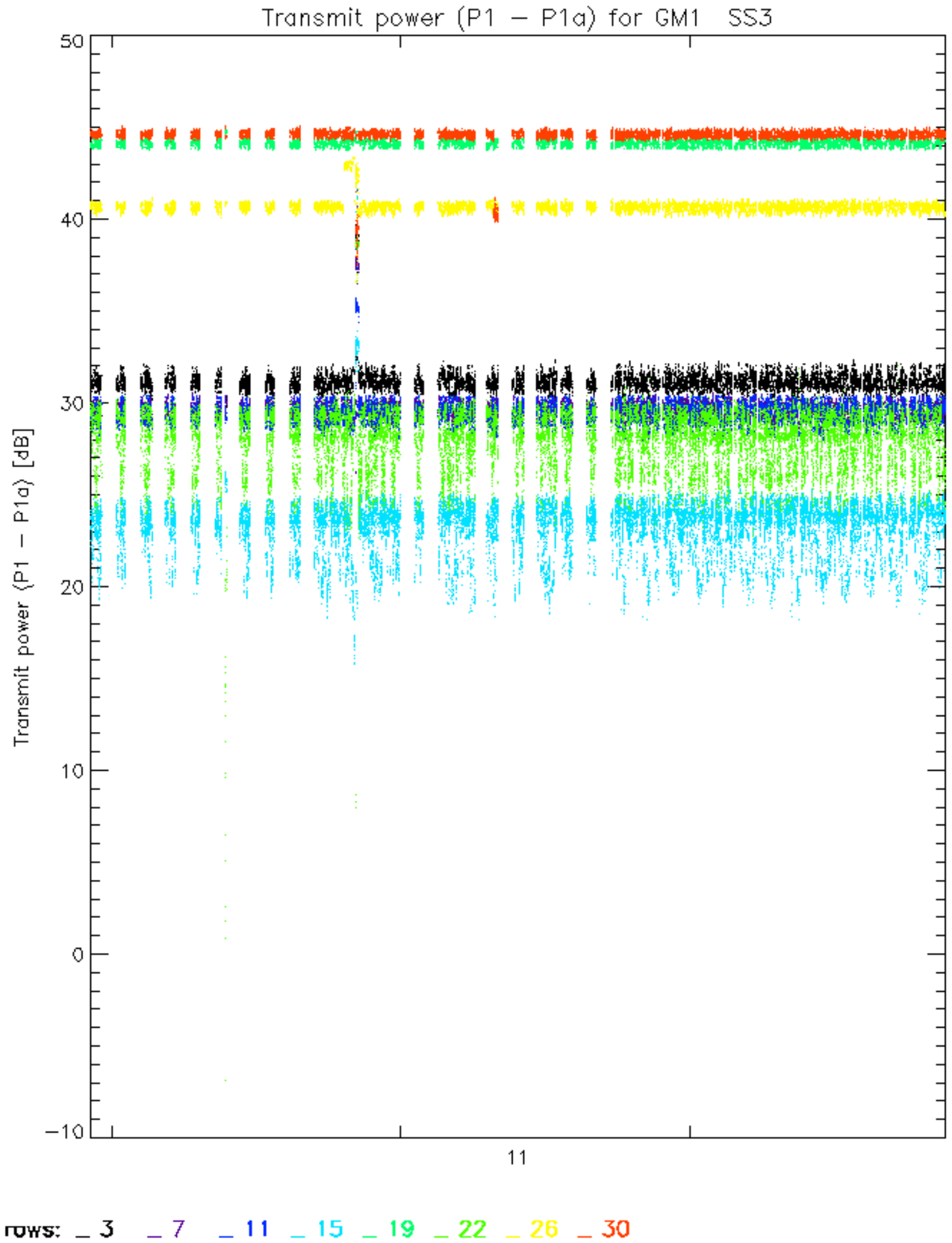
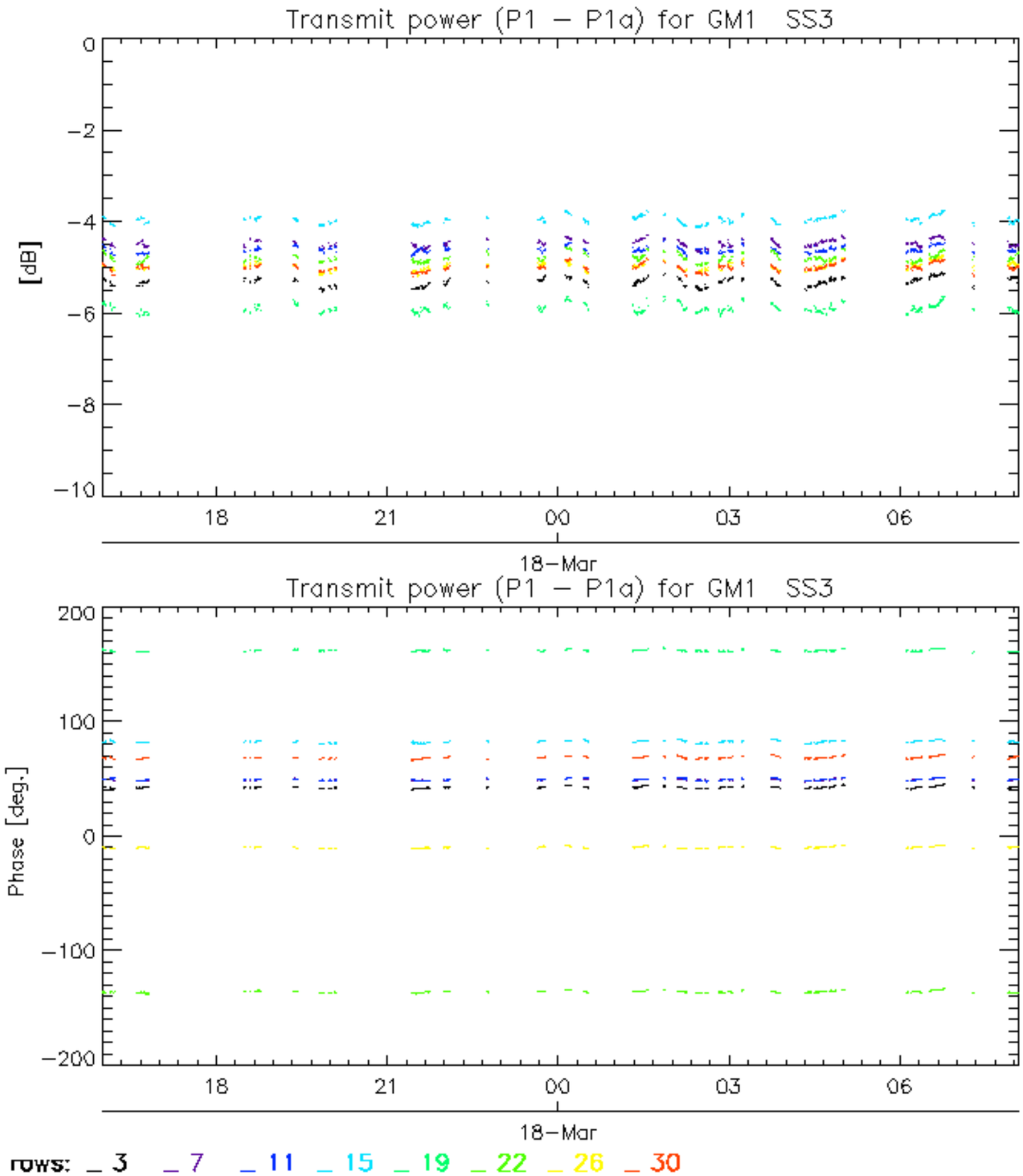
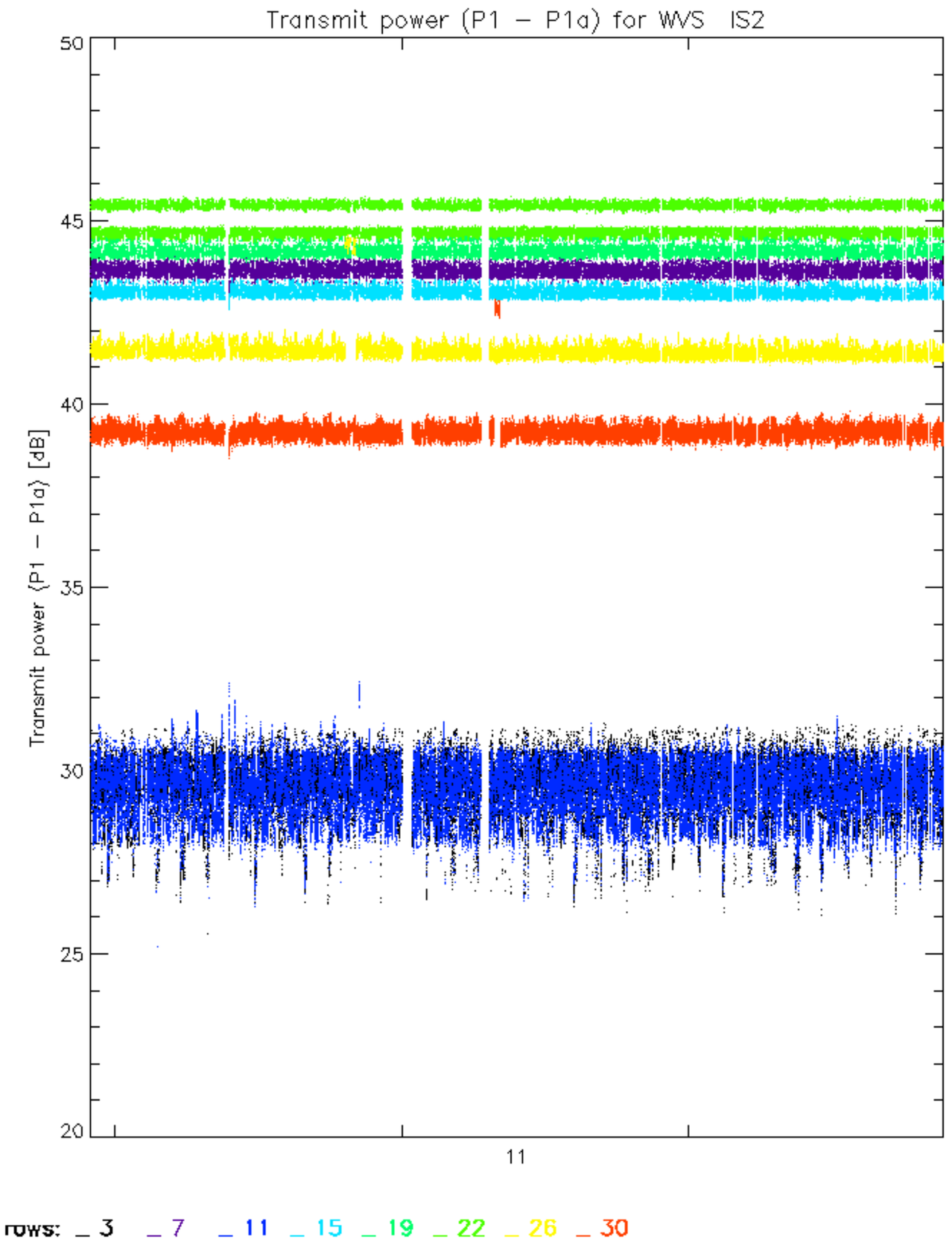
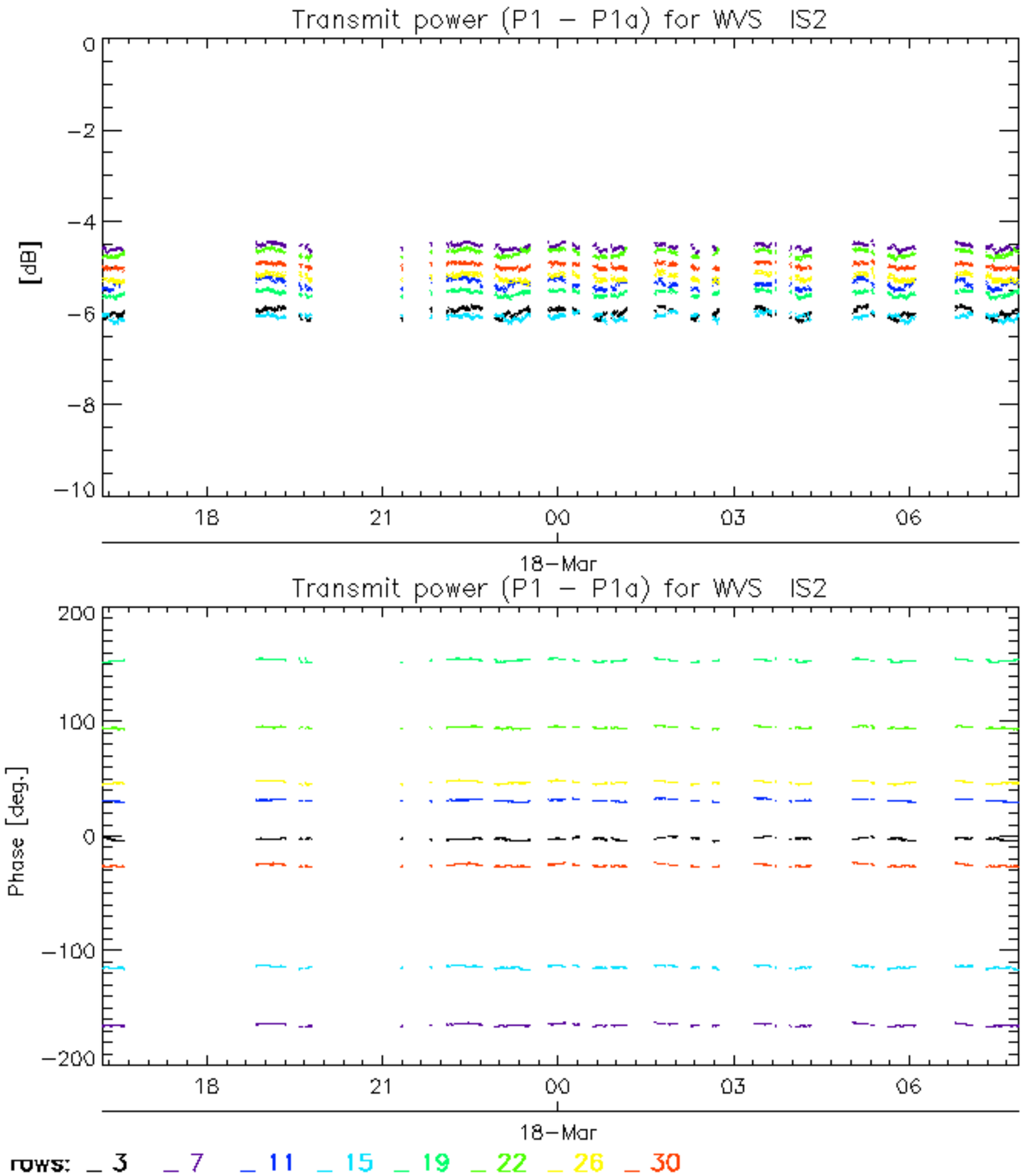

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
11
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
18−Mar
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
18−Mar
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
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
18–Mar
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
18–Mar
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.