PRELIMINARY REPORT OF 060321

last update on Tue Mar 21 16:34:06 GMT 2006

1. Introduction
2. Summary
    - Instrument Unavailability
    - Auxiliary files used
    - Browse Visual Inspection
    - Module Stepping Results
    - Data Analysis
3. Module Stepping
4. Internal Calibration pulses
    - Daily statistics
    - Cyclic statistics
    - cal pulses monitoring (all rows)
5. Raw Data Statistics
    - raw data mean I and Q
    - raw data stdev I and Q
    - raw gain imbalance
6. TLM analysis
7. Wave Doppler analysis
    - Unbiased Doppler Error for WVS
    - Absolute Doppler for WVS
    - Doppler evolution versus ANX for WVS
    - Unbiased Doppler Error for GM1
    - Absolute Doppler for GM1
    - Doppler evolution versus ANX for GM1

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 2006-03-20 00:00:00 to 2006-03-21 16:34:06

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	46	57	7	0	16
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	46	57	7	0	16
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	46	57	7	0	16
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	46	57	7	0	16

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	45	53	30	18	57
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	45	53	30	18	57
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	45	53	30	18	57
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	45	53	30	18	57

2.3 - Browse Visual Inspection

No anomalies observed on available browse products

2.4 - Data Analysis

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

3 - Module Stepping Mode

No anomalies observed on available MS products:

Polarisation	Start Time
V	20060319 095336
H	20060320 092159

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	-4.002409	0.009353	-0.003012
7	P1	-3.008834	0.008516	-0.027184
11	P1	-4.061450	0.019900	0.015025
15	P1	-6.087312	0.021342	-0.058792
19	P1	-3.294215	0.006662	-0.045141
22	P1	-4.459638	0.014404	-0.025914
26	P1	-4.183077	0.111030	0.191004
30	P1	-5.790059	0.167012	0.099487
3	P1	-16.983826	0.247954	0.056294
7	P1	-16.728027	0.101689	-0.108911
11	P1	-16.492550	0.327129	0.097185
15	P1	-13.051785	0.094055	-0.021845
19	P1	-13.942432	0.052654	-0.101829
22	P1	-15.574049	0.457848	-0.083876
26	P1	-15.743893	0.375084	0.000235
30	P1	-16.494282	0.322920	-0.137144

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.391127	0.086803	0.072802
7	P2	-22.363155	0.096357	0.121064
11	P2	-16.224400	0.100733	0.030165
15	P2	-7.163714	0.098529	-0.006031
19	P2	-9.131733	0.091334	-0.014203
22	P2	-17.943514	0.089184	-0.071284
26	P2	-16.213909	0.094732	-0.044990
30	P2	-19.648146	0.084590	-0.038898

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.193829	0.005791	-0.007263
7	P3	-8.193829	0.005791	-0.007263
11	P3	-8.193829	0.005791	-0.007263
15	P3	-8.193829	0.005791	-0.007263
19	P3	-8.193829	0.005791	-0.007263
22	P3	-8.193829	0.005791	-0.007263
26	P3	-8.193829	0.005791	-0.007263
30	P3	-8.193829	0.005791	-0.007261

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	-3.833936	2.801231	0.323844
7	P1	-2.819143	2.941097	0.398108
11	P1	-3.013901	2.961262	0.370220
15	P1	-3.658703	2.935676	0.400837
19	P1	-3.459389	2.844012	0.327744
22	P1	-5.256456	2.614676	0.310032
26	P1	-5.919607	2.801568	0.656475
30	P1	-5.264325	2.656691	0.434622
3	P1	-11.641782	1.843733	0.255915
7	P1	-10.035554	2.042040	0.272666
11	P1	-10.335319	2.035372	0.243978
15	P1	-10.881865	2.048177	0.249405
19	P1	-15.458814	1.510468	0.210743
22	P1	-20.324200	2.171632	0.083001

26	P1	-16.288136	2.036080	0.151748
30	P1	-18.290640	1.728367	0.488197

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.086775	1.939302	0.104352
7	P2	-22.535995	2.273154	-0.067744
11	P2	-11.266634	2.105371	0.179071
15	P2	-4.905479	2.734996	0.311476
19	P2	-6.913122	2.461859	0.300409
22	P2	-8.204627	2.308723	0.238158
26	P2	-23.905466	2.323795	-0.289298
30	P2	-22.039919	2.192750	-0.173068

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.022742	0.002519	0.005633
7	P3	-8.022806	0.002512	0.005409
11	P3	-8.022705	0.002529	0.005694
15	P3	-8.022856	0.002525	0.005481
19	P3	-8.022745	0.002526	0.005071
22	P3	-8.022808	0.002517	0.005516
26	P3	-8.022816	0.002519	0.005223
30	P3	-8.022696	0.002526	0.005543

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	0.000558061
	stdev	1.74443e-07
MEAN Q	mean	0.000516818
	stdev	2.20872e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.138163
	stdev	0.00118687
STDEV Q	mean	0.138526
	stdev	0.00120488

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006032[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_1PNPDE20060320_141119_000001602046_00096_21192_1254.N1	1	0
ASA_WSM_1PNPDE20060321_042632_000001842046_00105_21201_1778.N1	0	60
ASA_WSM_1PNPDE20060321_063926_000000852046_00106_21202_1792.N1	0	1
ASA_WSM_1PNPDK20060320_081910_000000862046_00093_21189_0874.N1	0	41

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

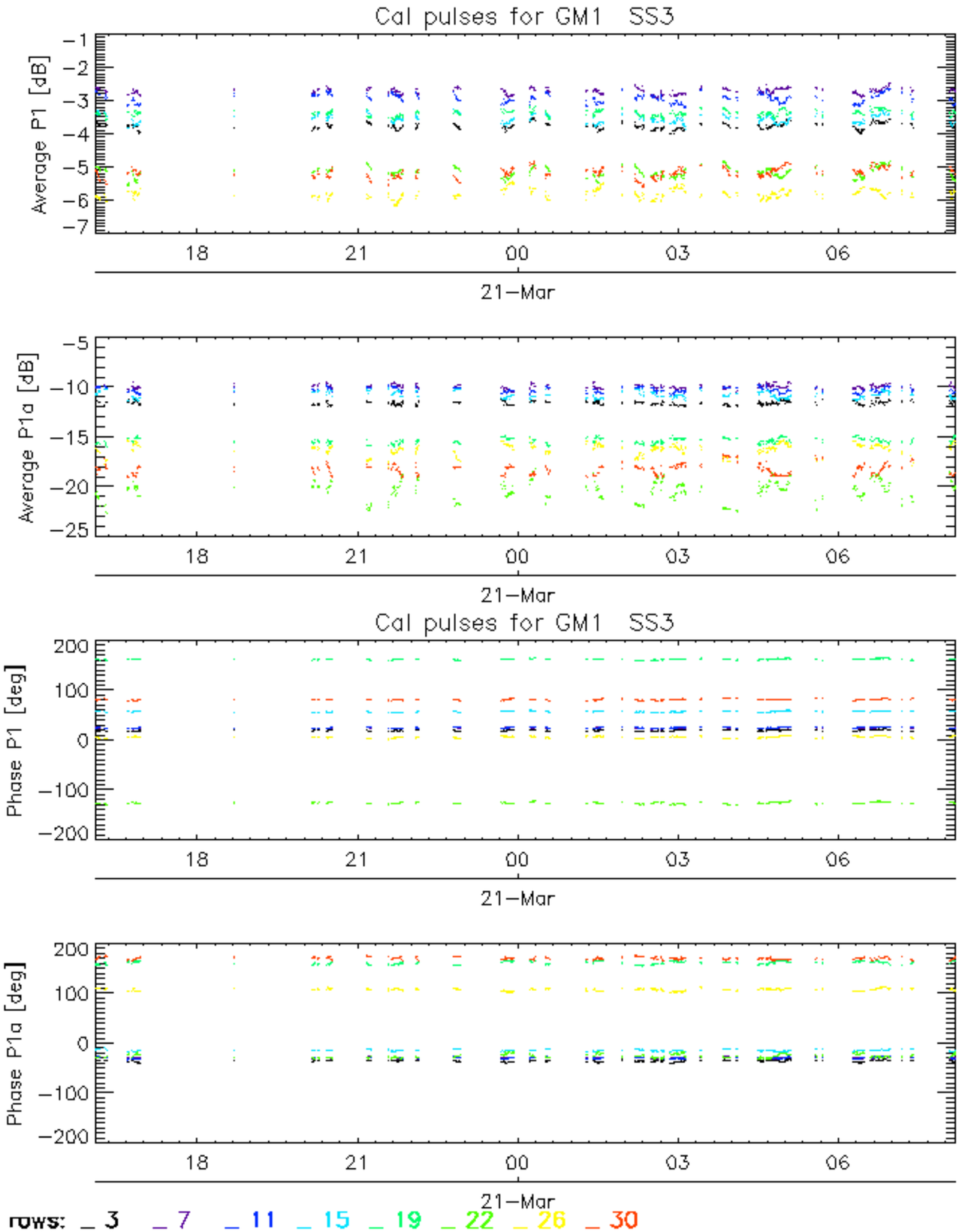
Evolution of unbiased Doppler error (Real - Expected)
Acsending
Descending

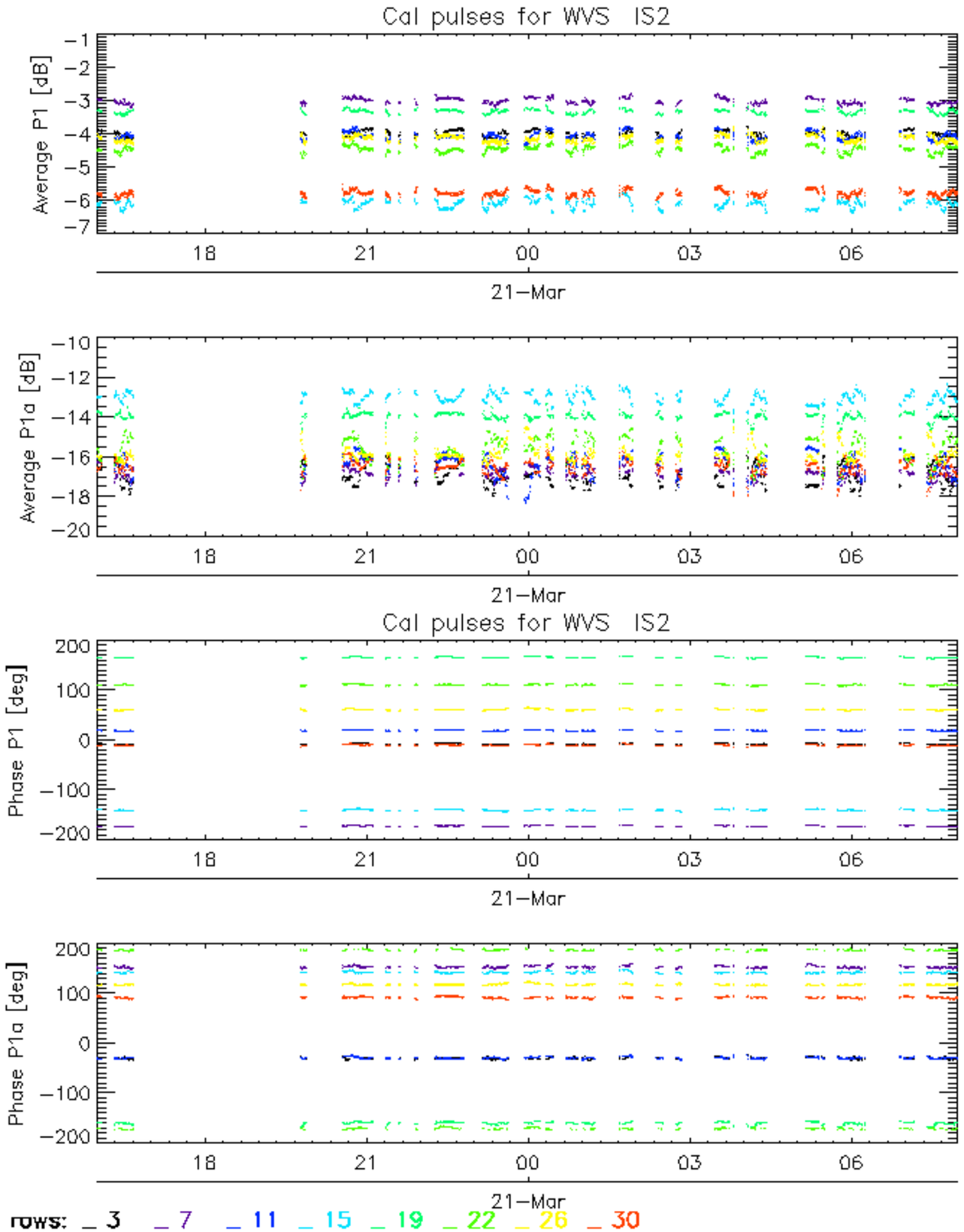
7.5 - Absolute Doppler for GM1

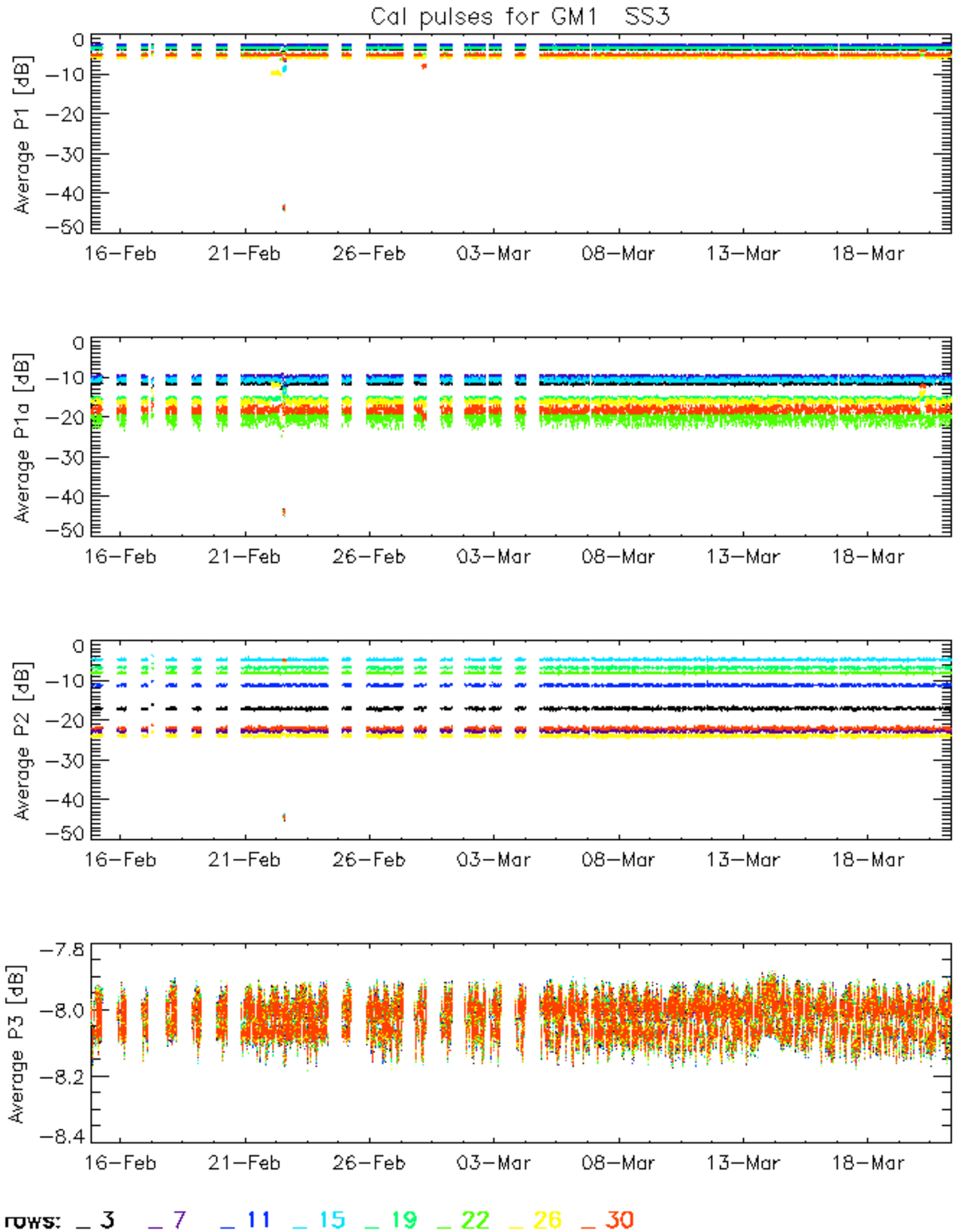
Evolution of Absolute Doppler
Acsending
Descending

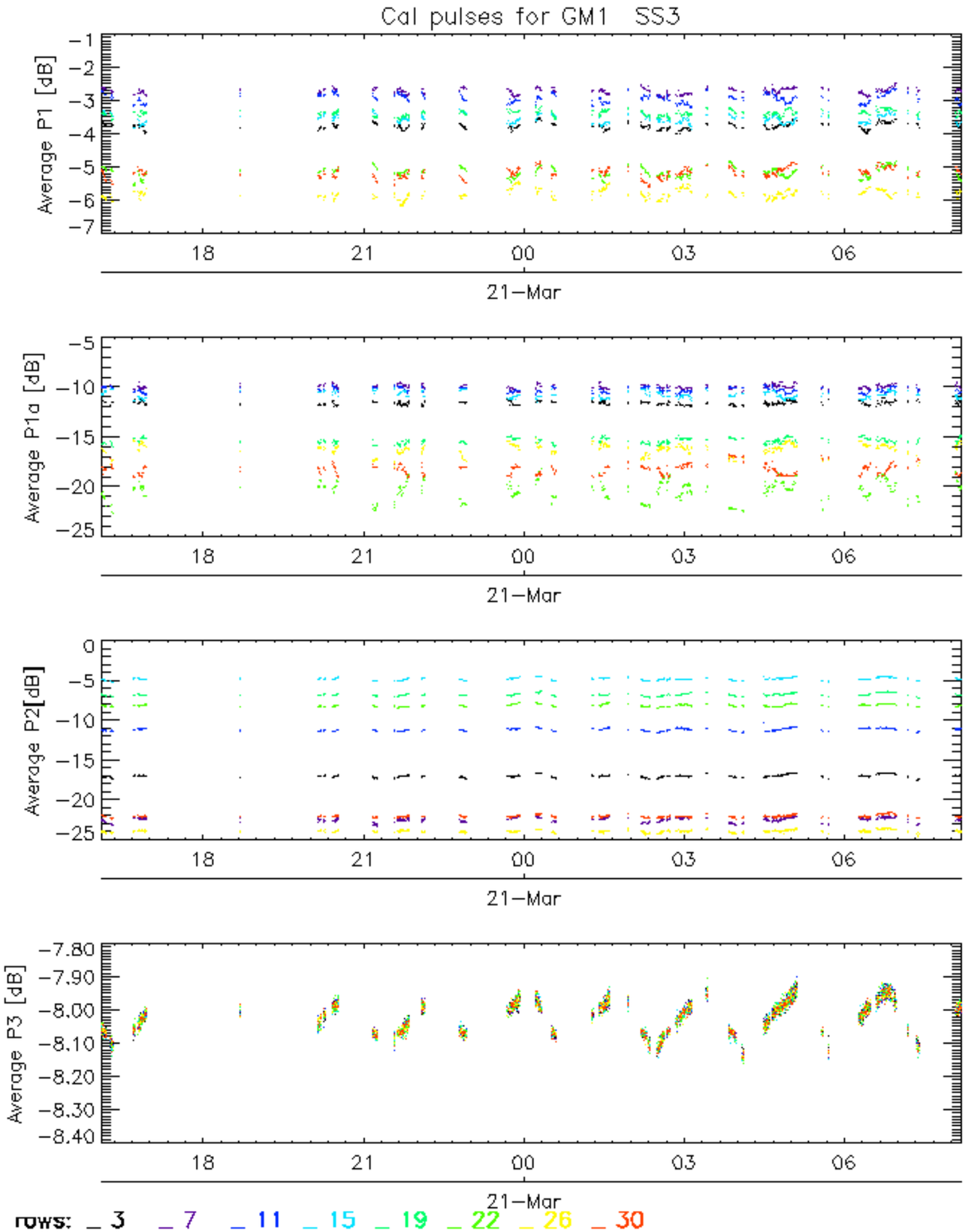
7.6 - Doppler evolution versus ANX for GM1

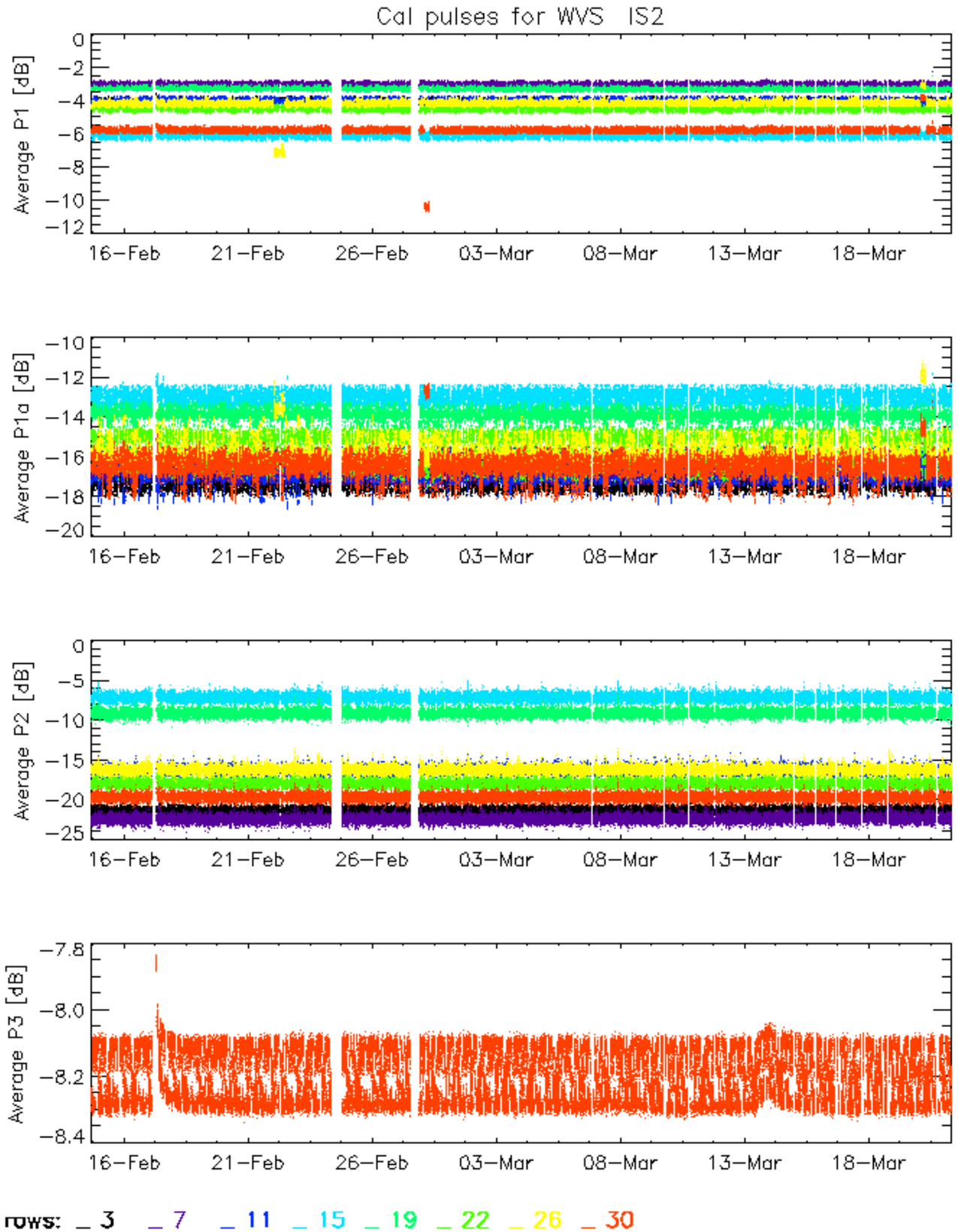
Evolution Doppler error versus ANX

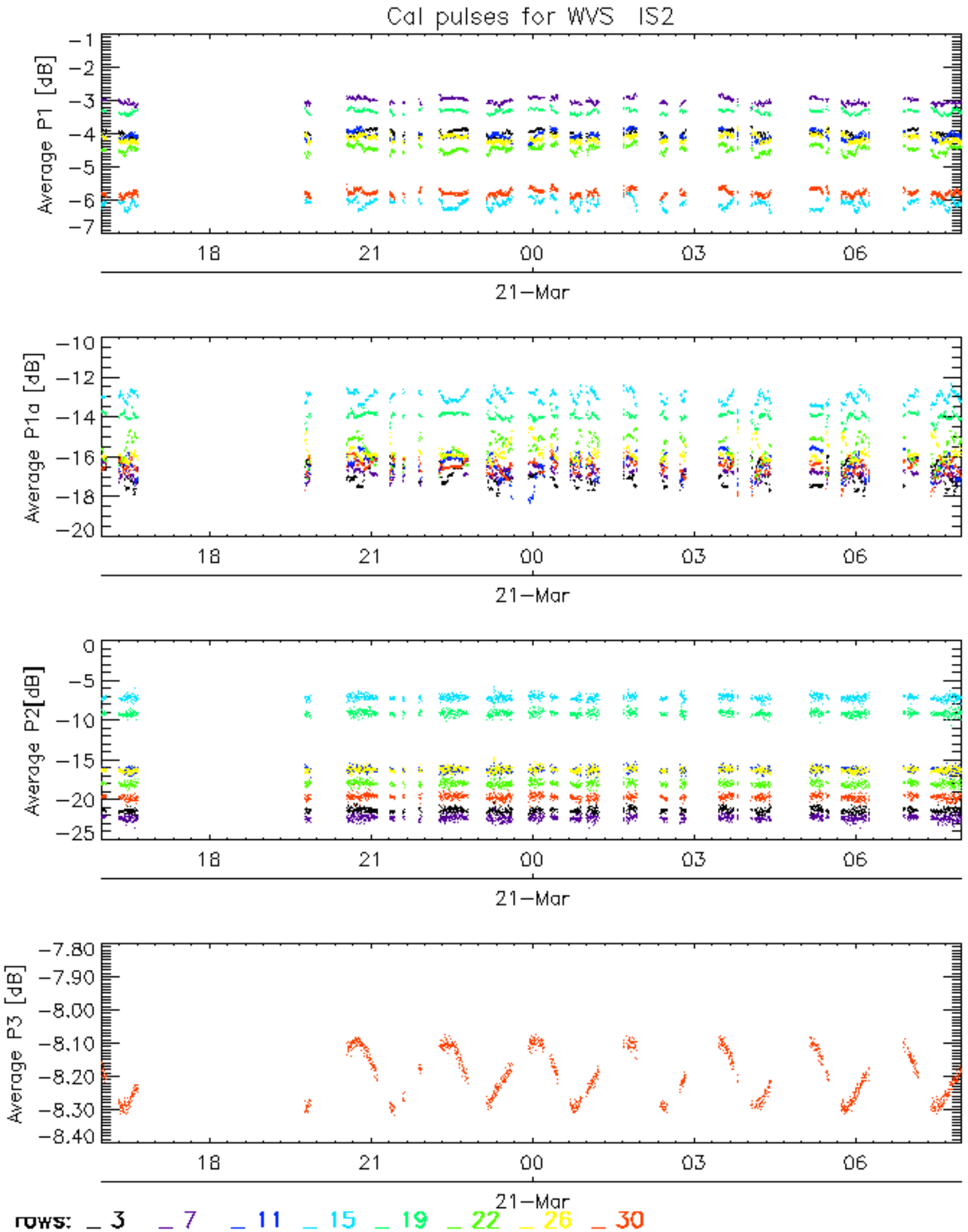

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
21−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
21−Mar
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
21−Mar
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
21−Mar
rows: _ 3 _ 7 _ 11 _ 15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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
21−Mar
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
21−Mar
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
21−Mar
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
21−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

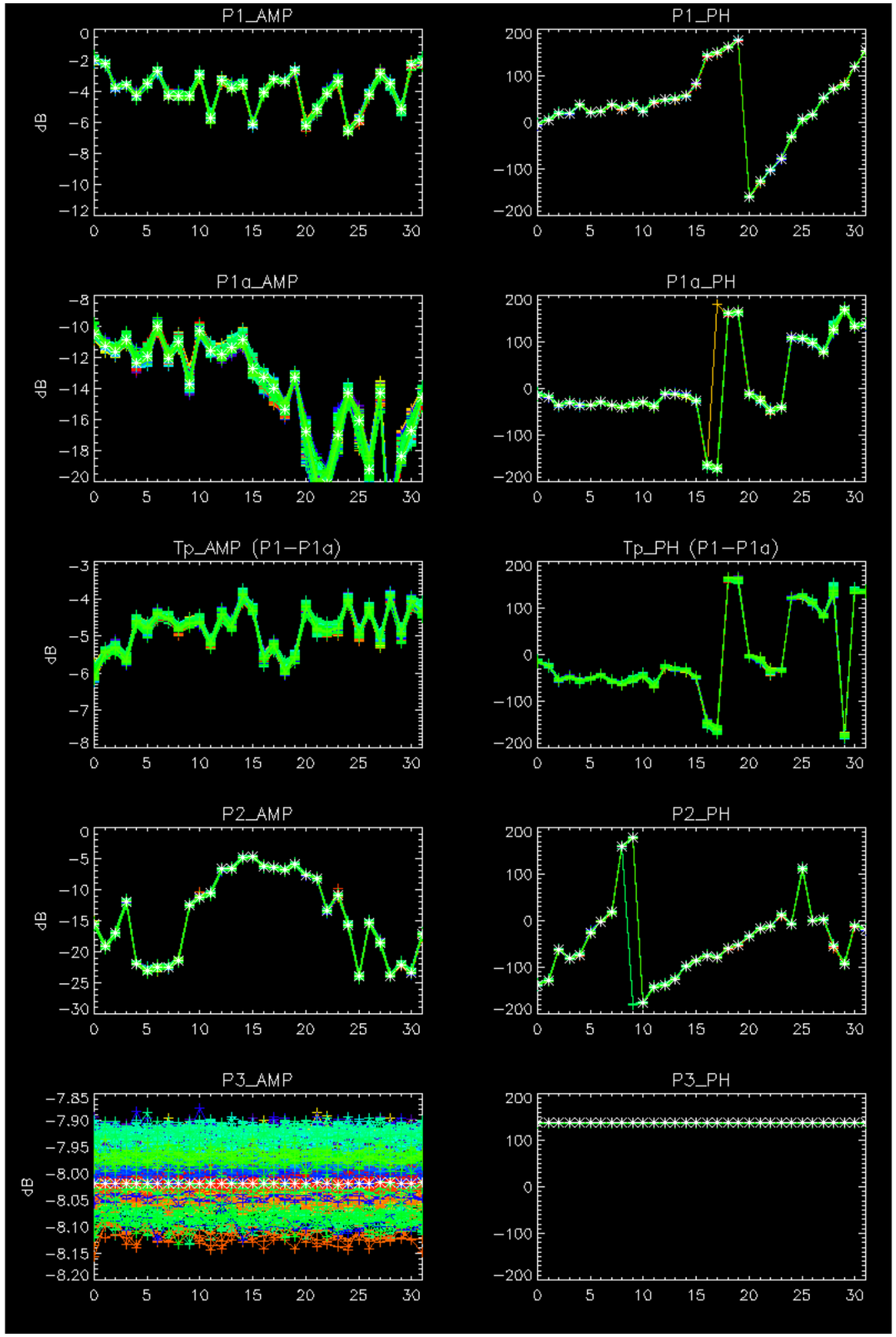

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
21−Mar
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
21−Mar
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
21−Mar
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
21−Mar
rows: _ 3 _ 7 _ 11 _ 15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

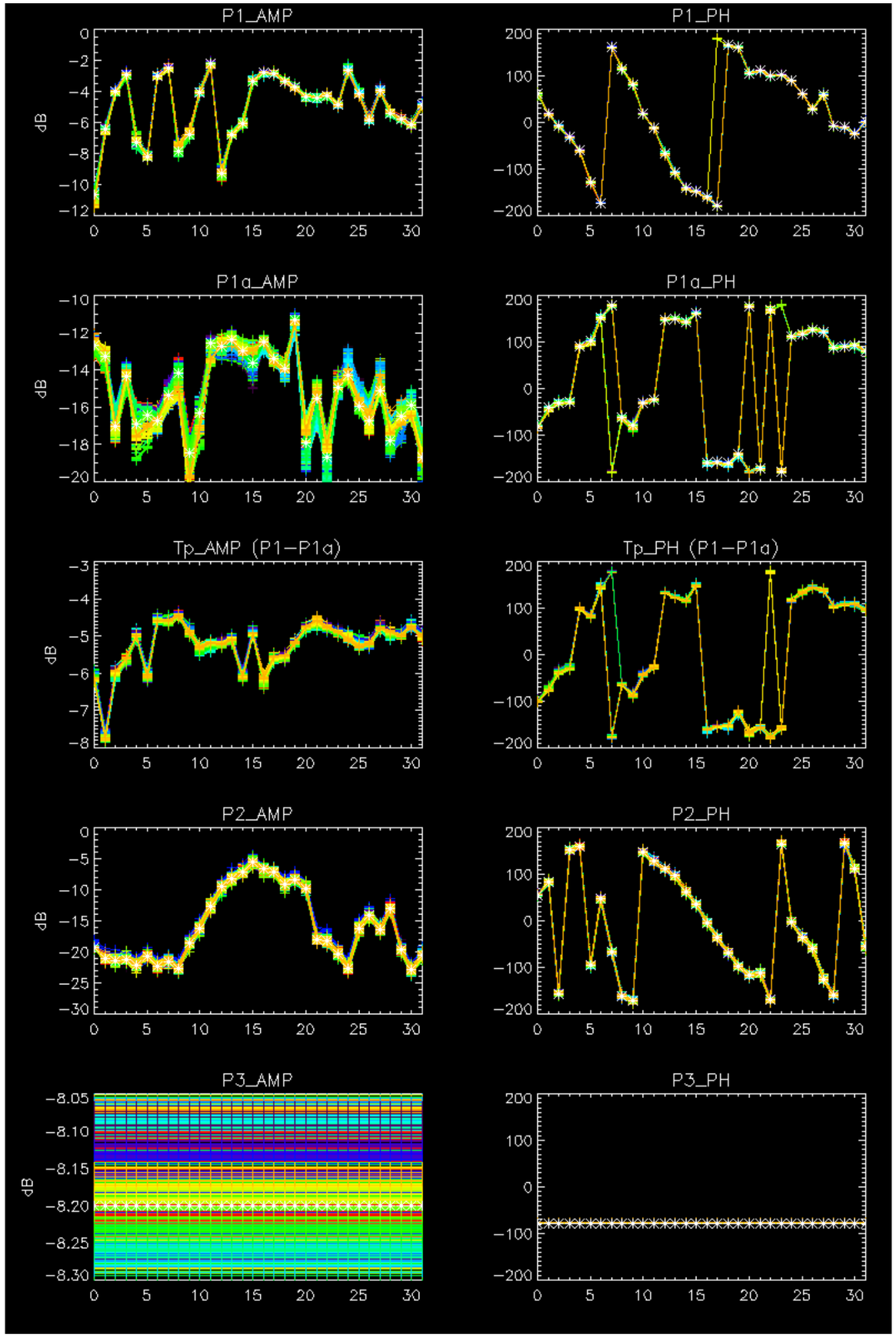

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
16−Feb
21−Feb
26−Feb
03−Mar
08−Mar
13−Mar
18−Mar
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30


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

No anomalies observed on available browse products

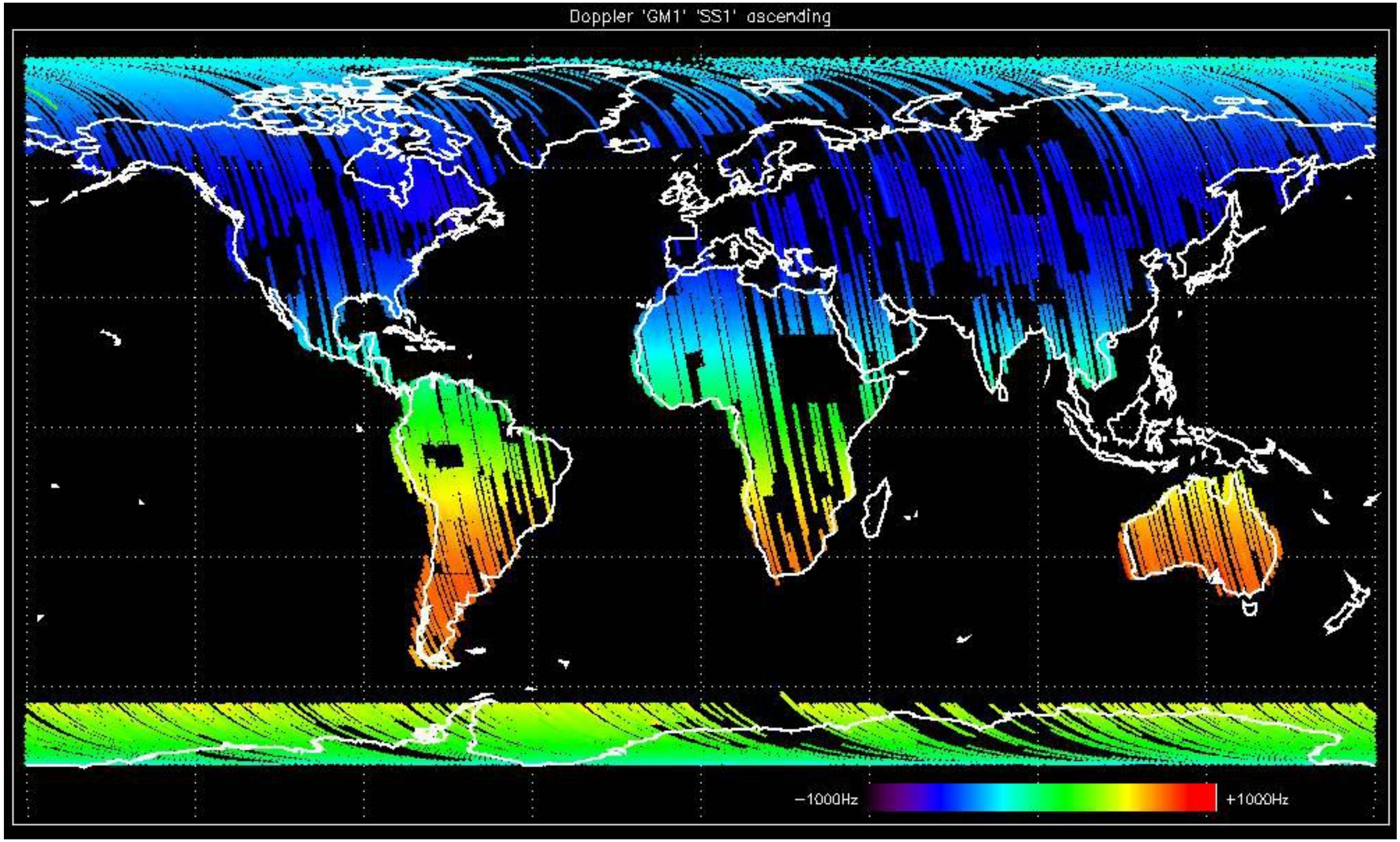
No anomalies observed.

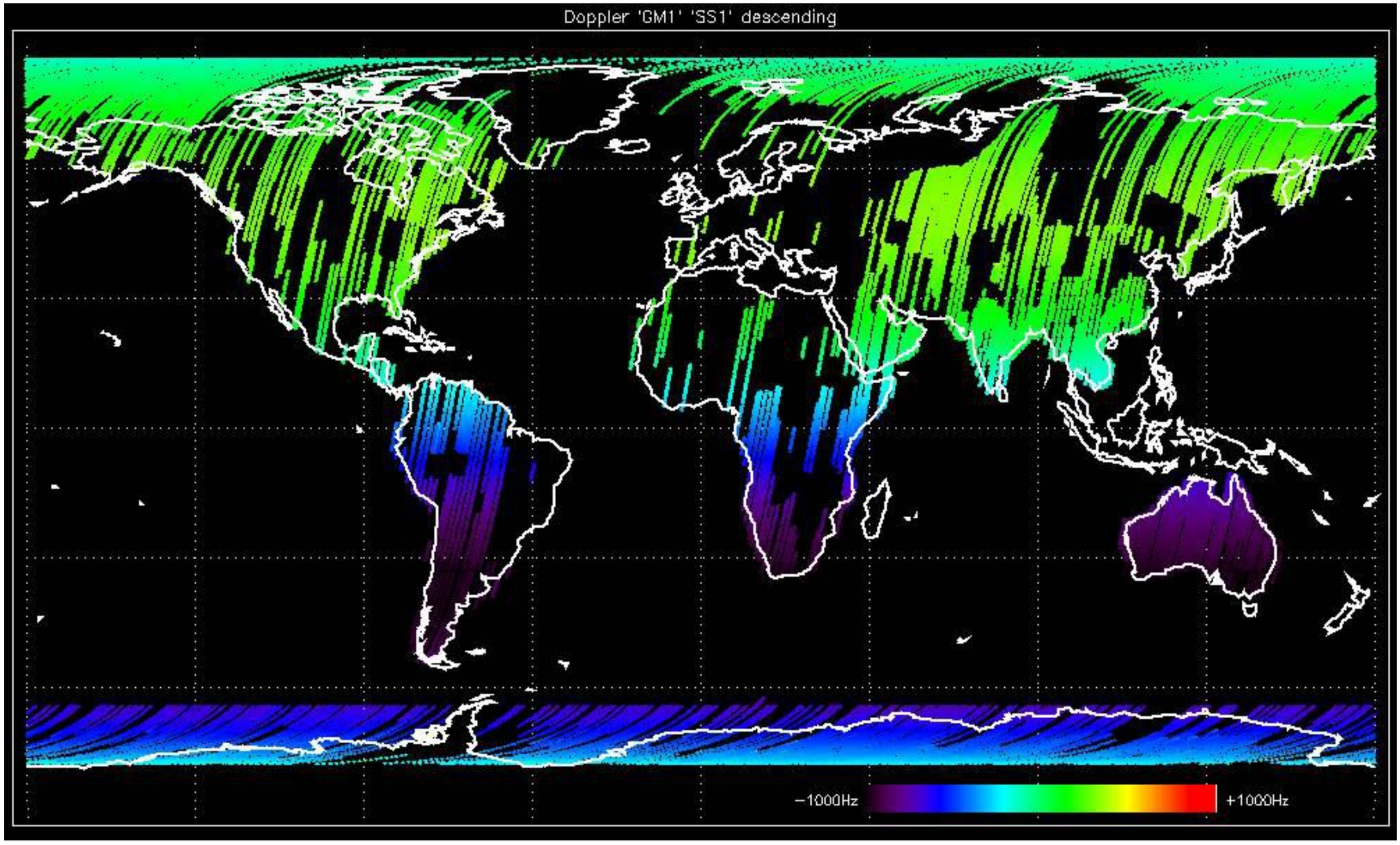

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

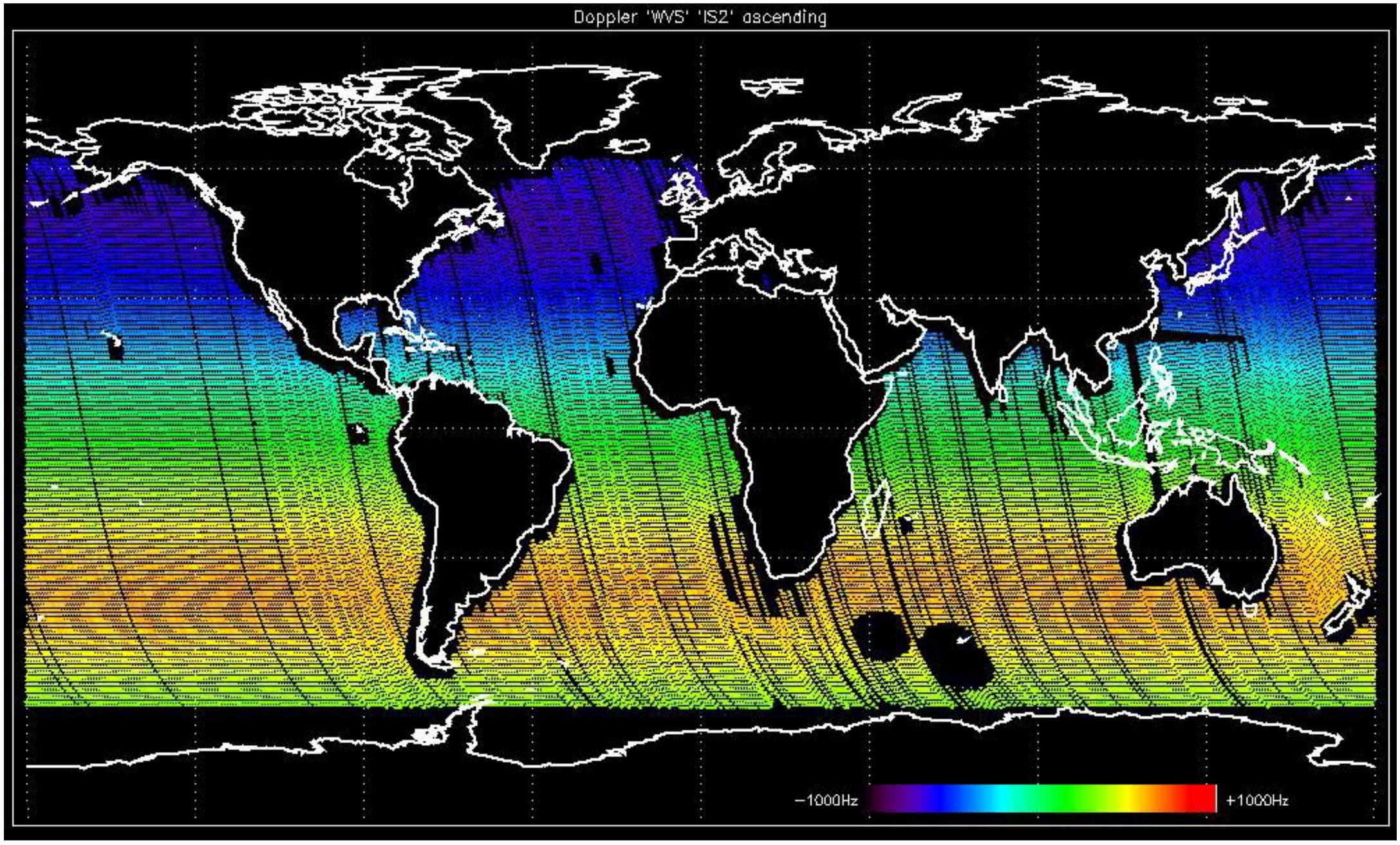

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

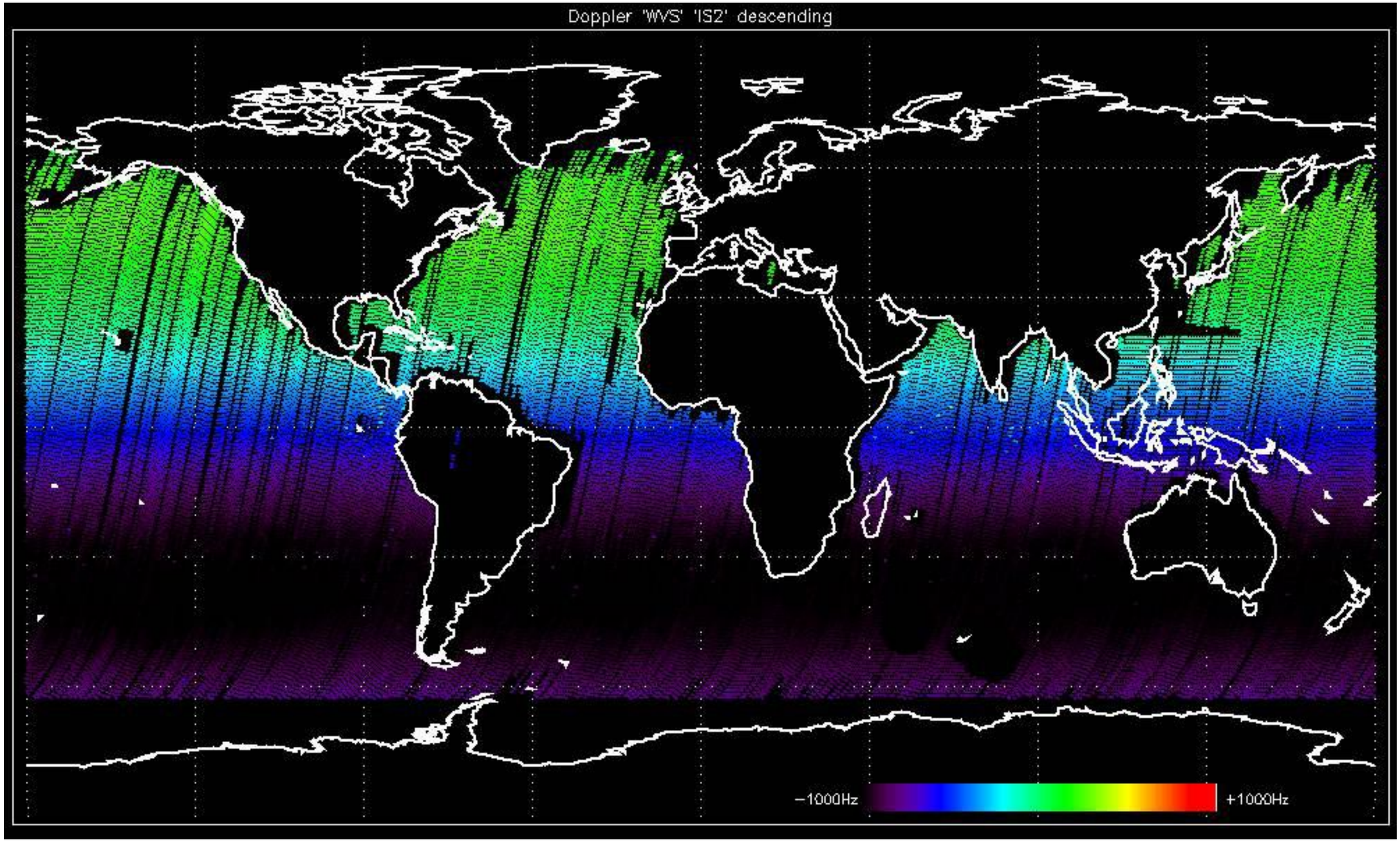
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

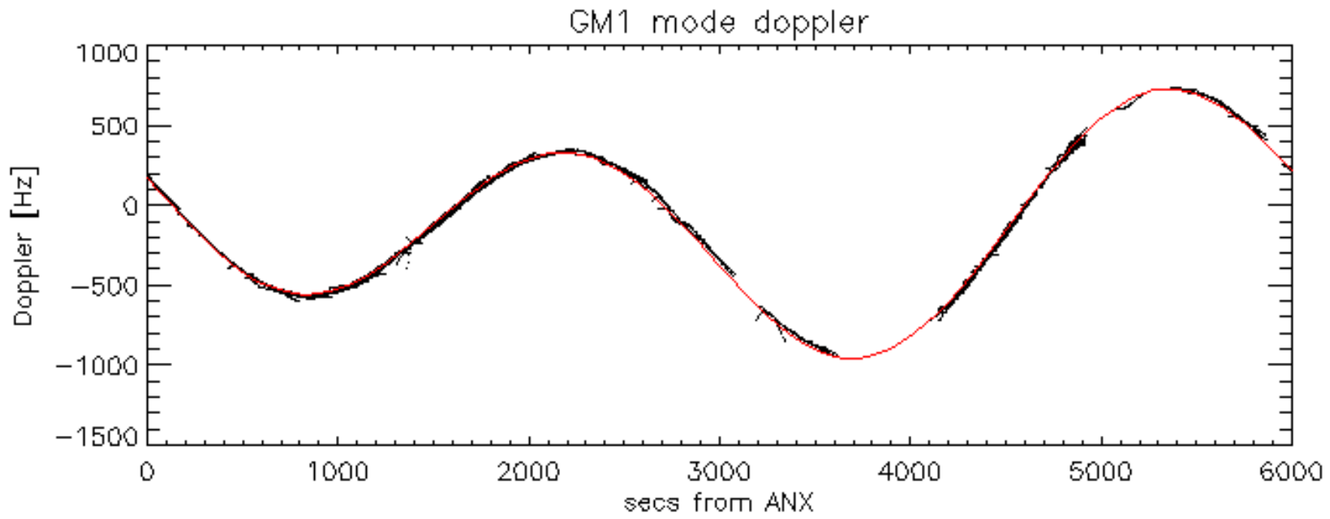
Preliminary report.The data is not yet controled

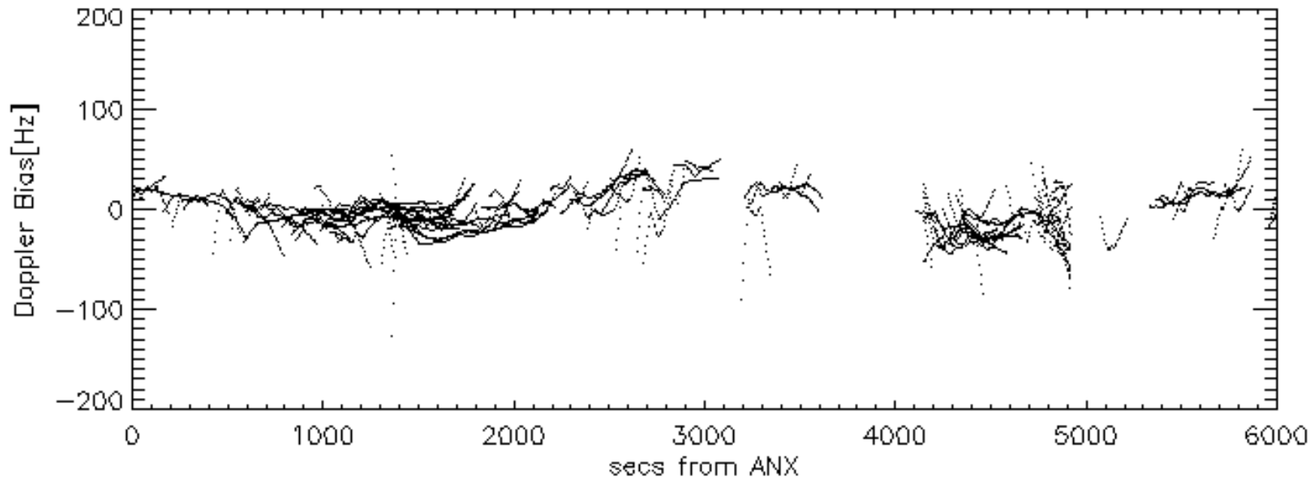

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

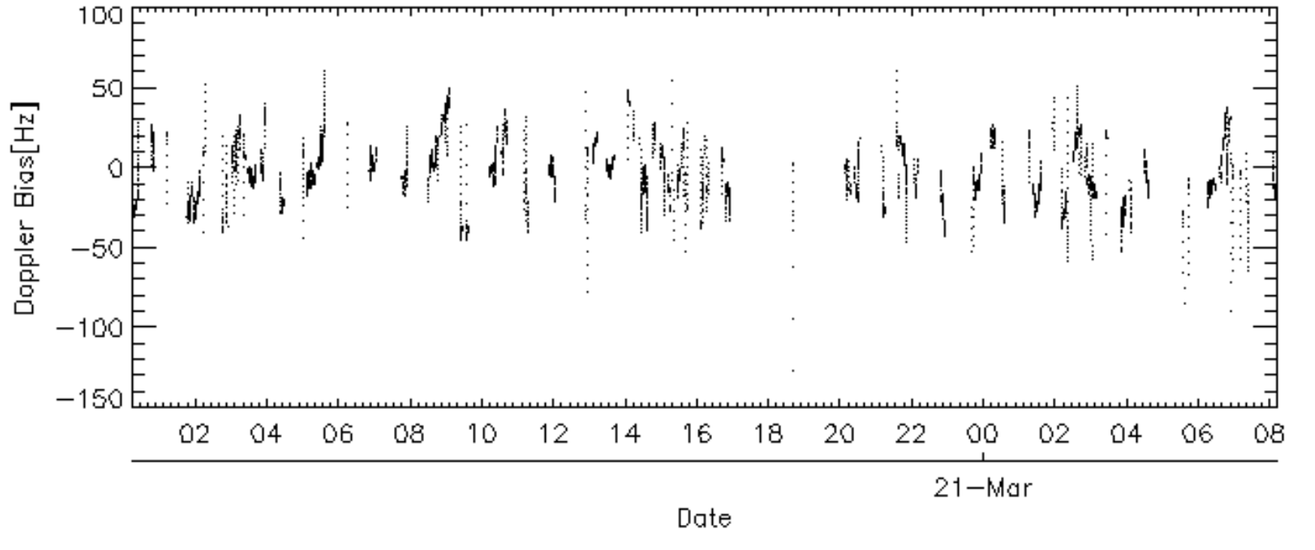

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

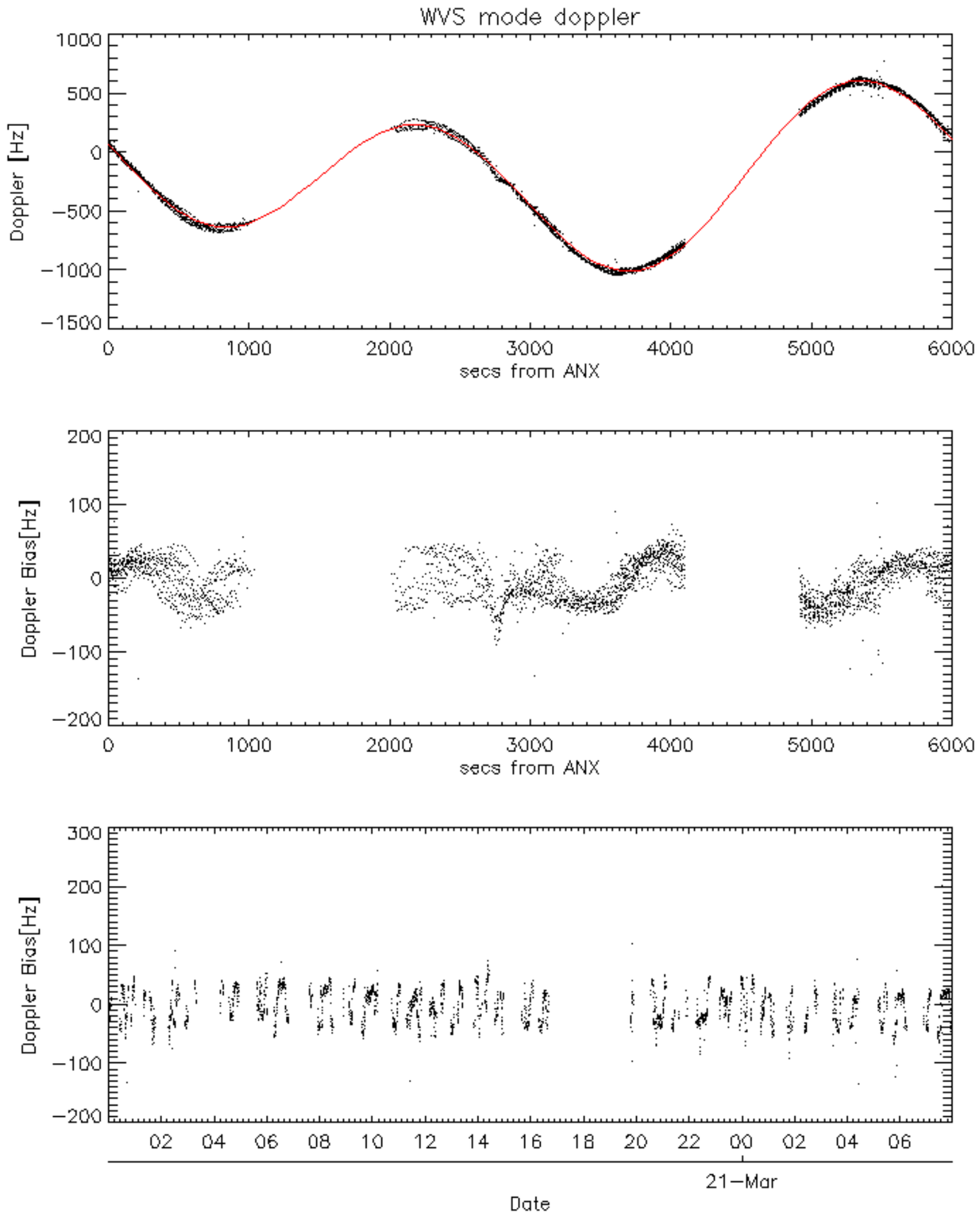

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

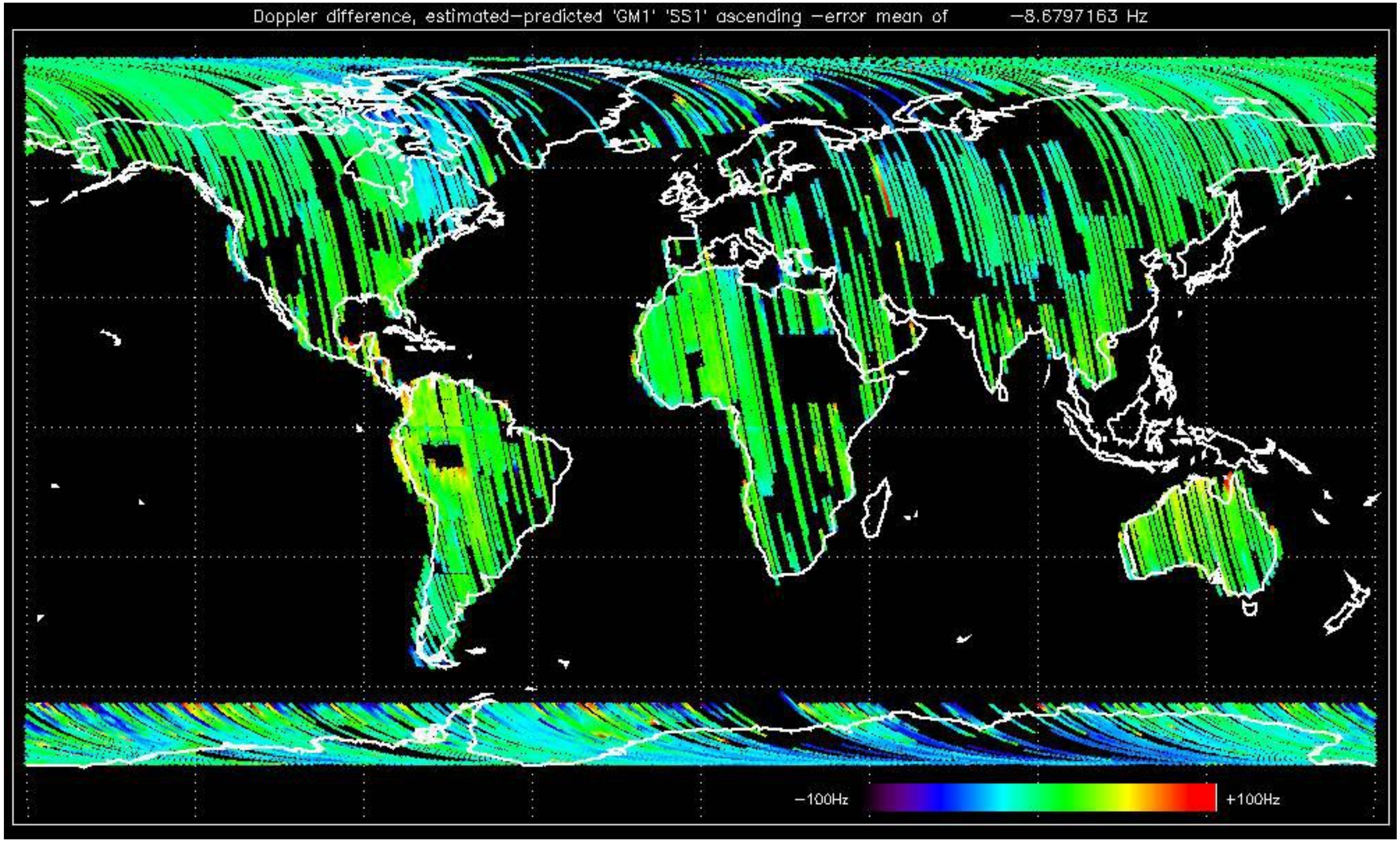

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

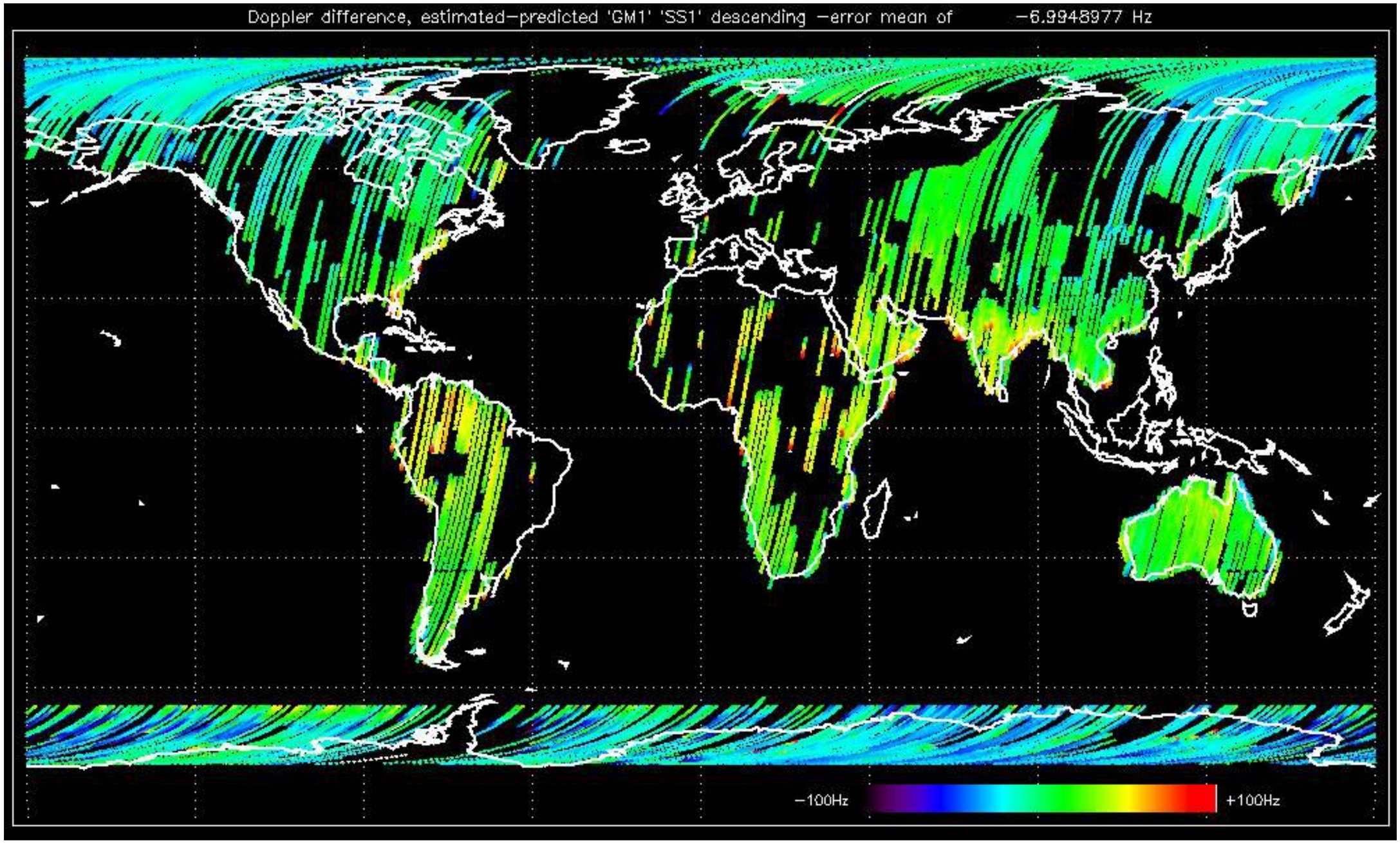

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

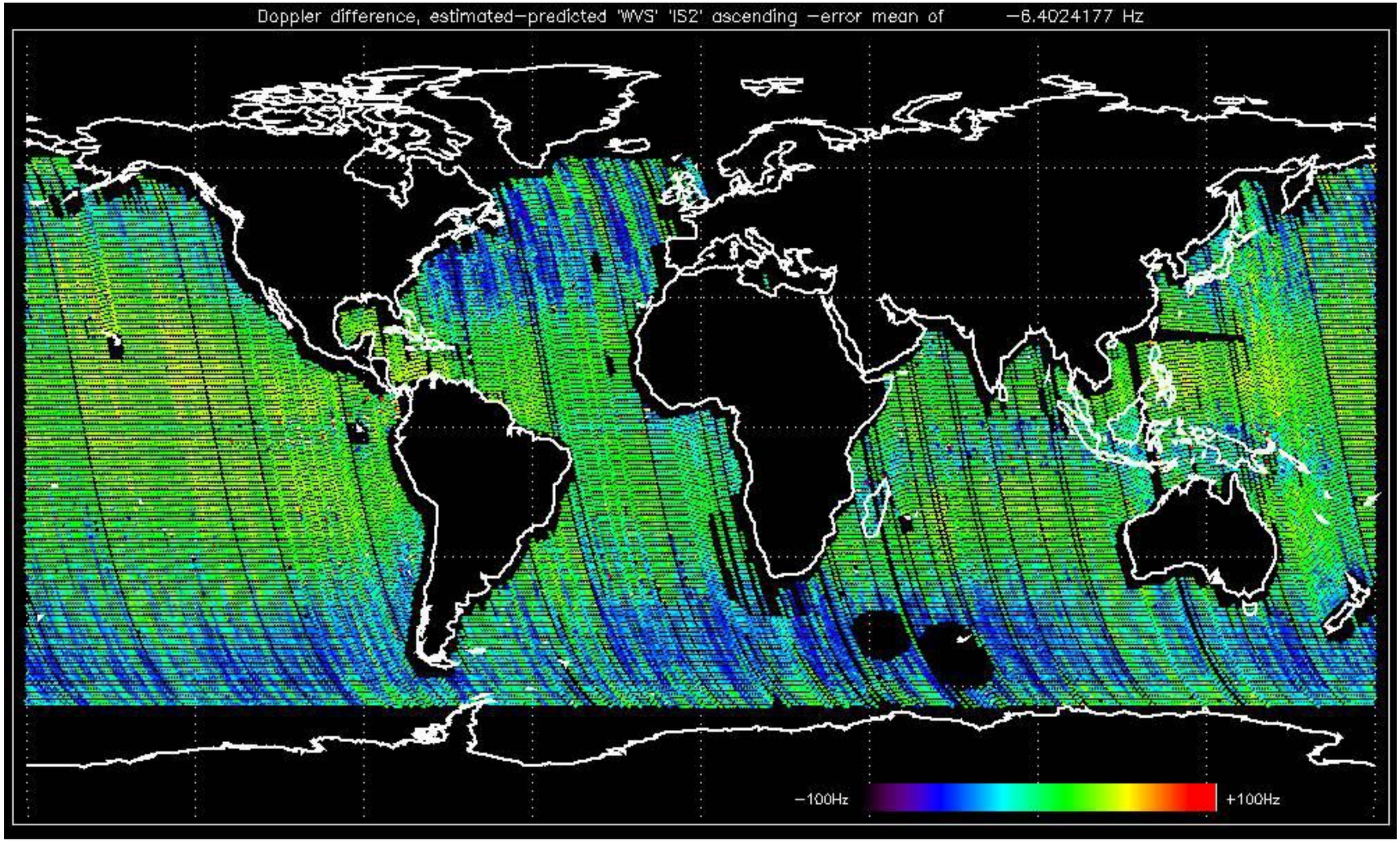

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

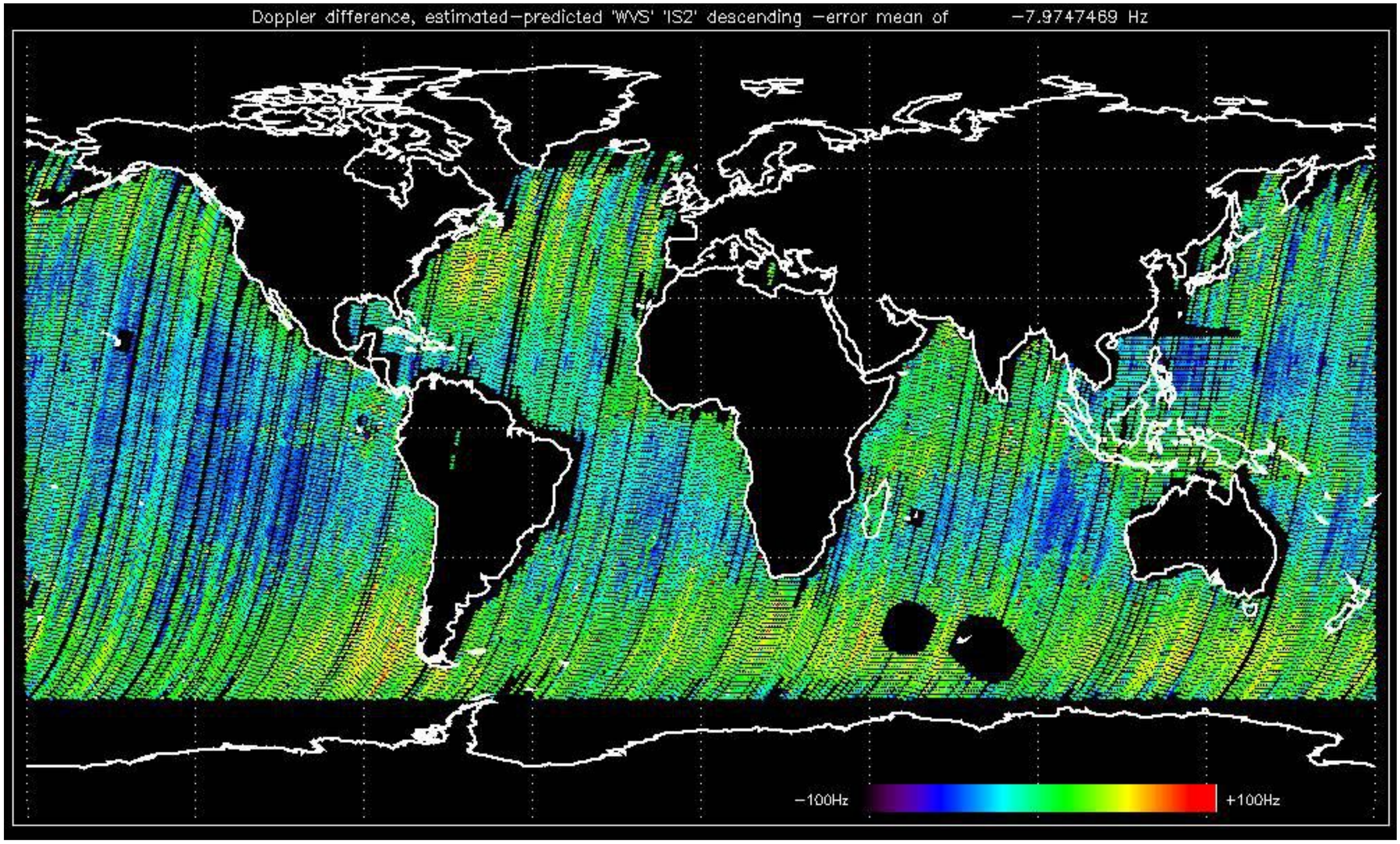

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
21−Mar
Date


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
21−Mar
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −8.6797163 Hz
−100Hz
+100Hz

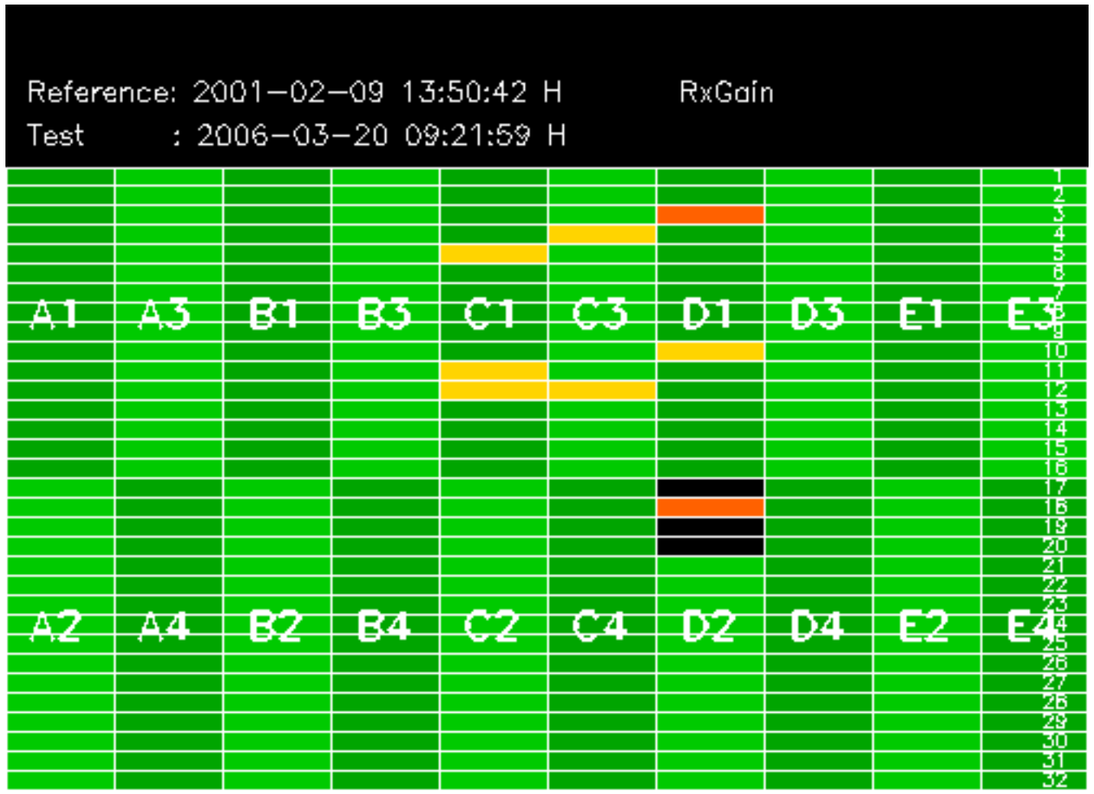

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −6.9948977 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −6.4024177 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −7.9747469 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-03-20 09:21:59 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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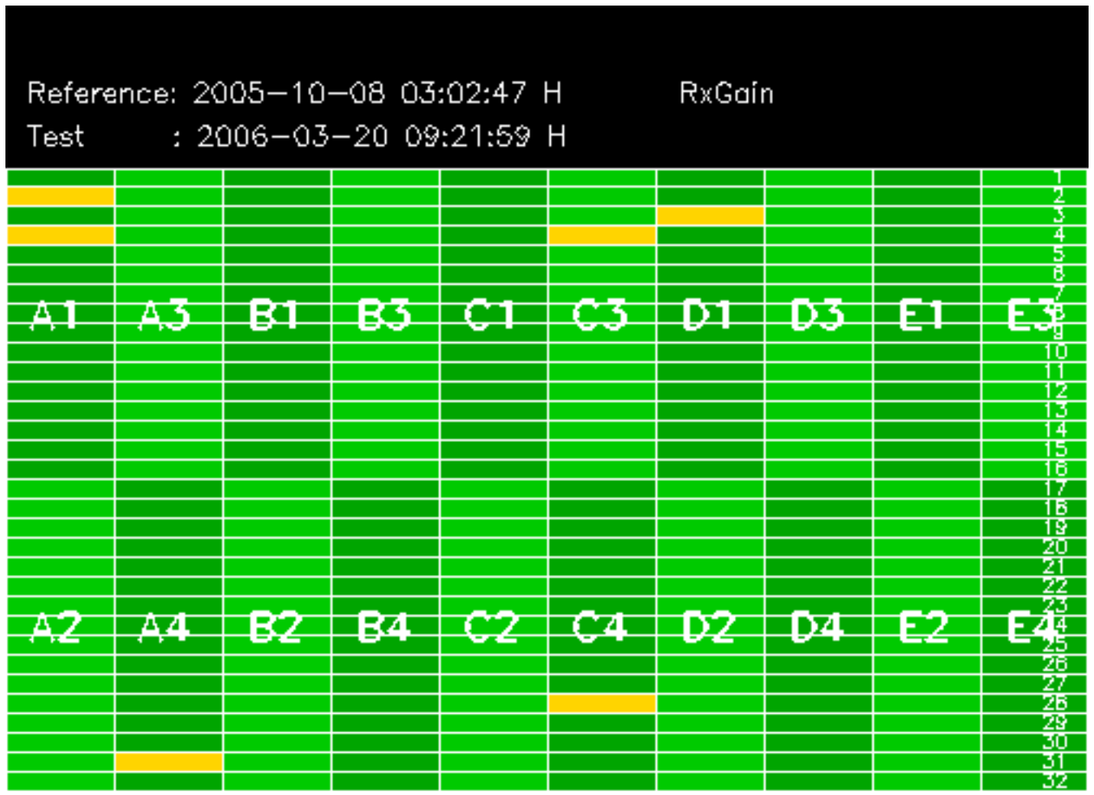
Reference: 2005-10-08 03:02:47 H
Test : 2006-03-20 09:21:59 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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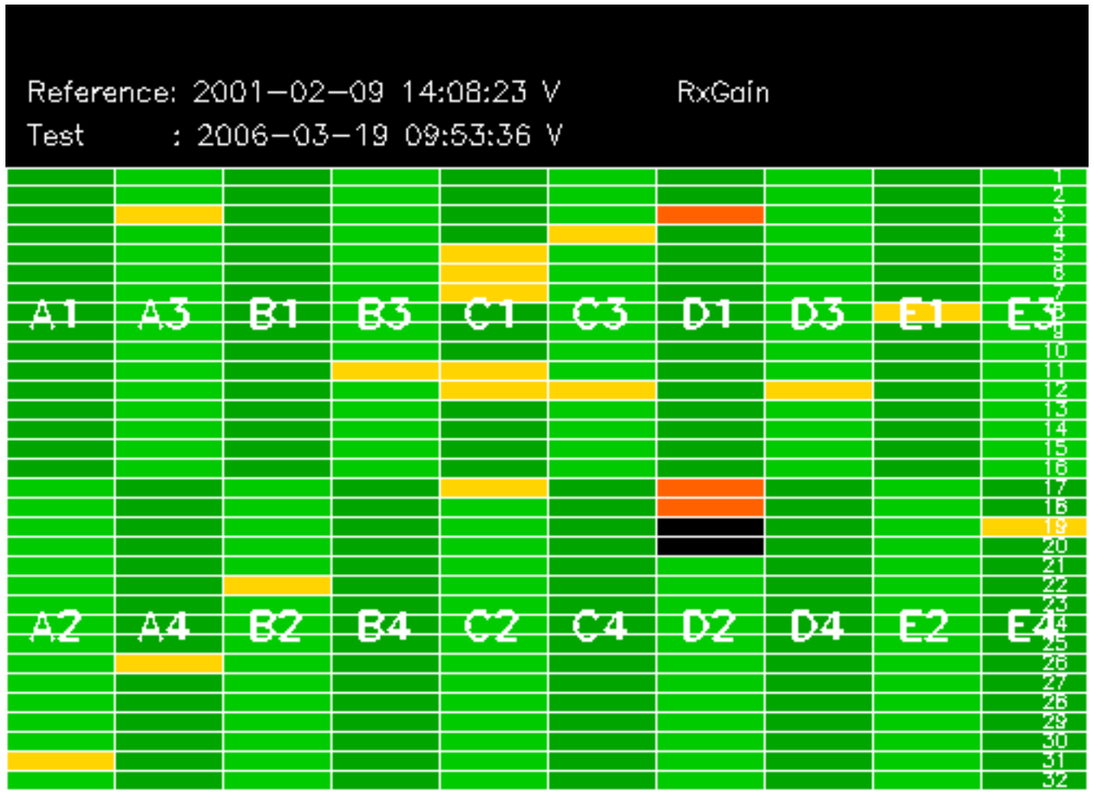
Reference: 2001-02-09 14:08:23 V
Test : 2006-03-19 09:53:36 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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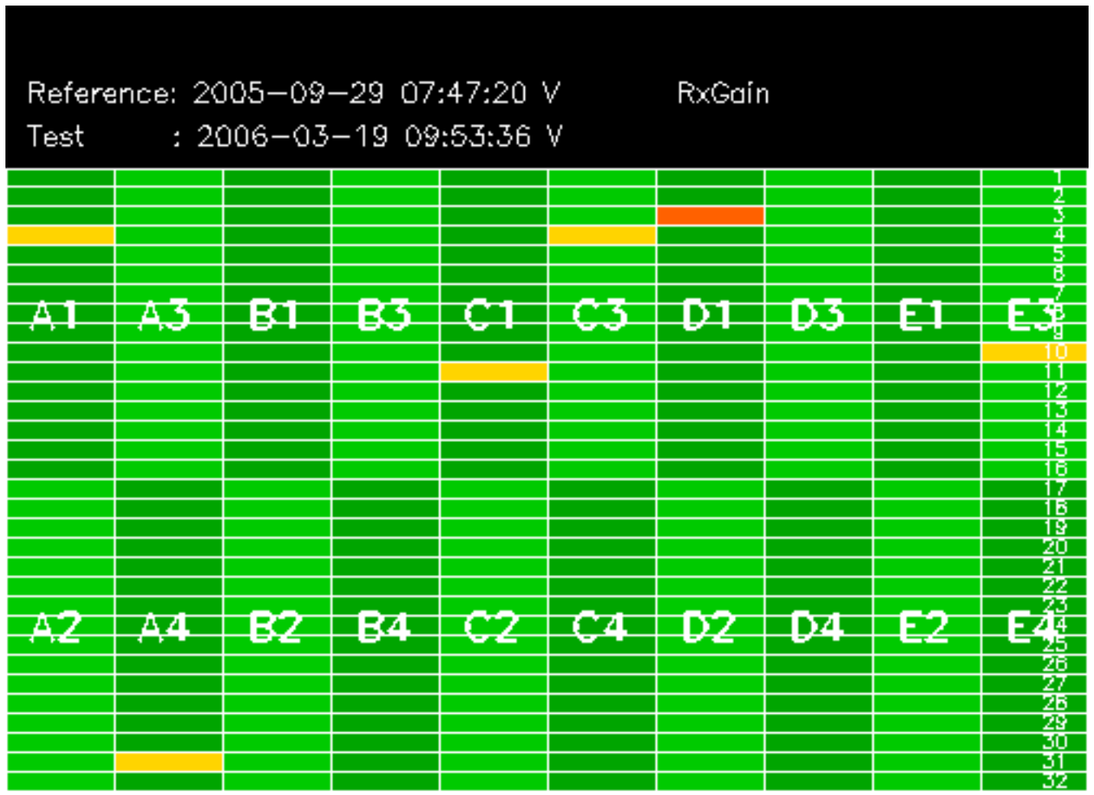
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-19 09:53:36 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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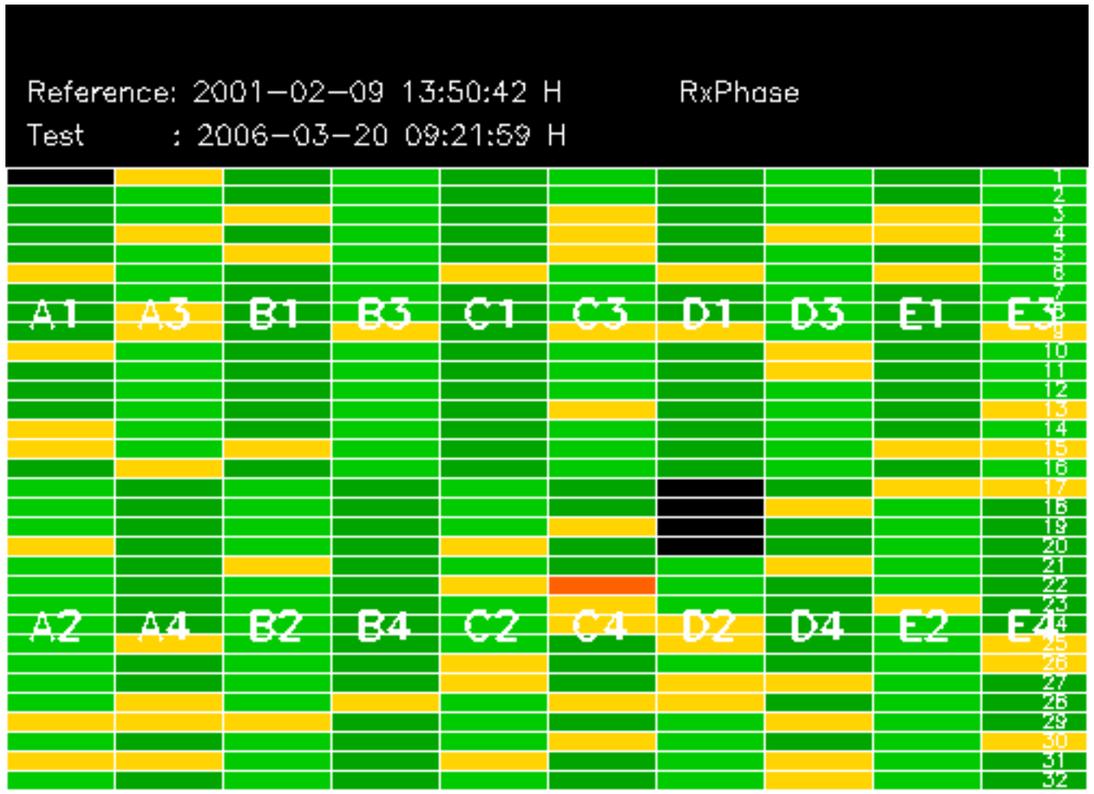
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-03-20 09:21:59 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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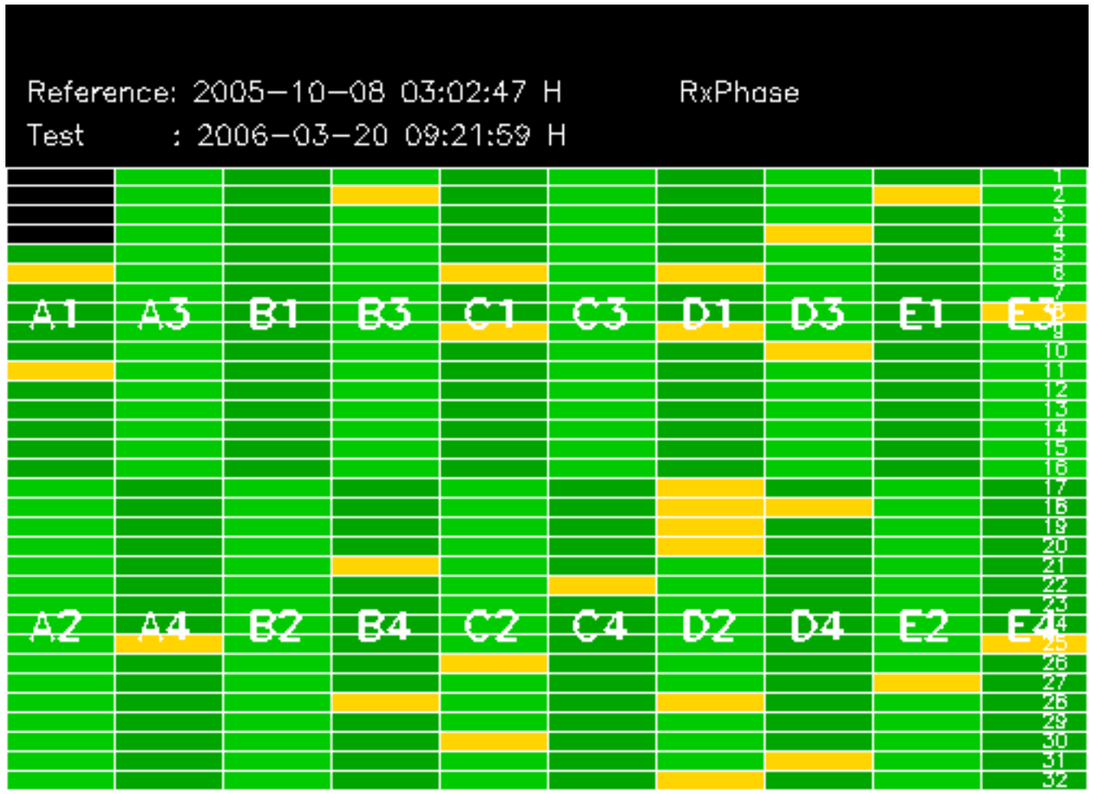
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-03-20 09:21:59 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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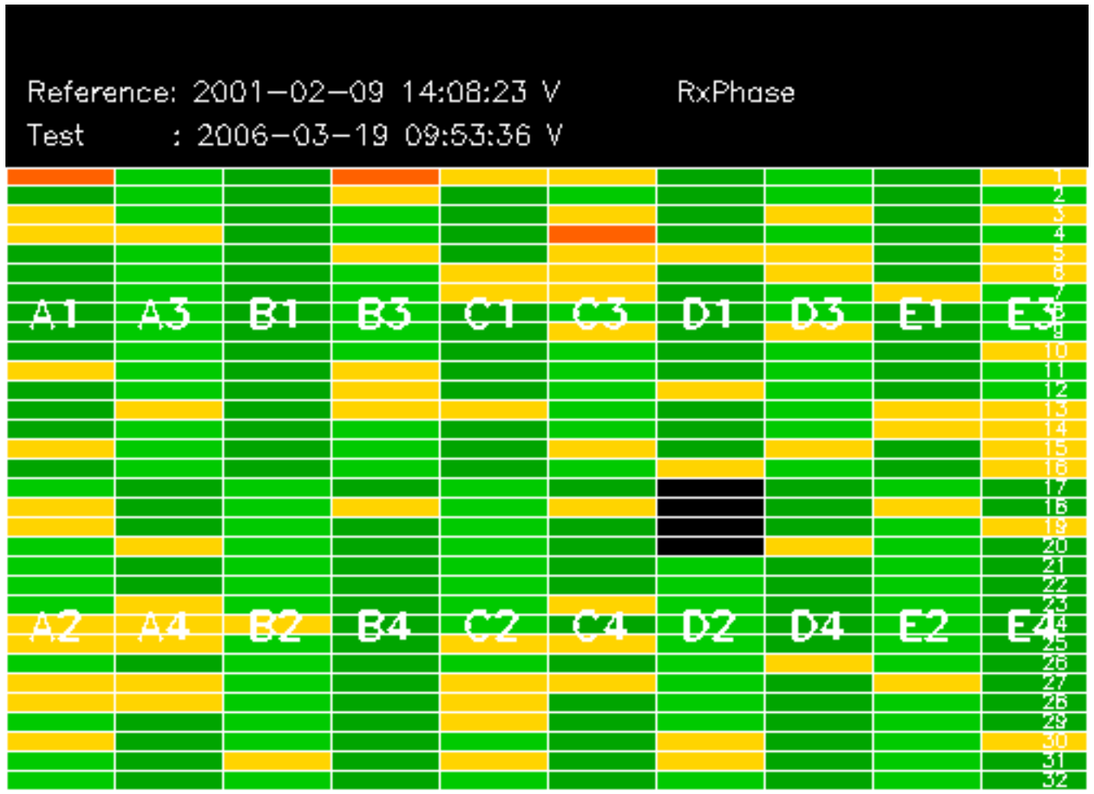
Reference: 2001-02-09 14:08:23 V
Test : 2006-03-19 09:53:36 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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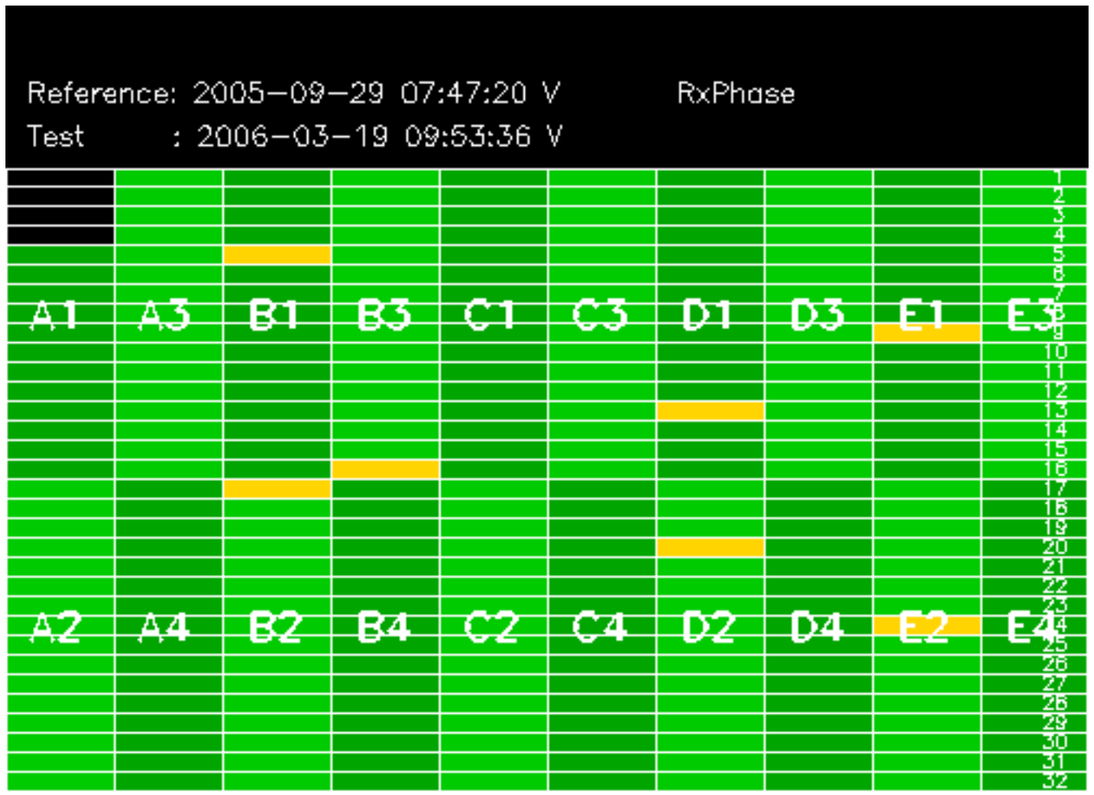
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-19 09:53:36 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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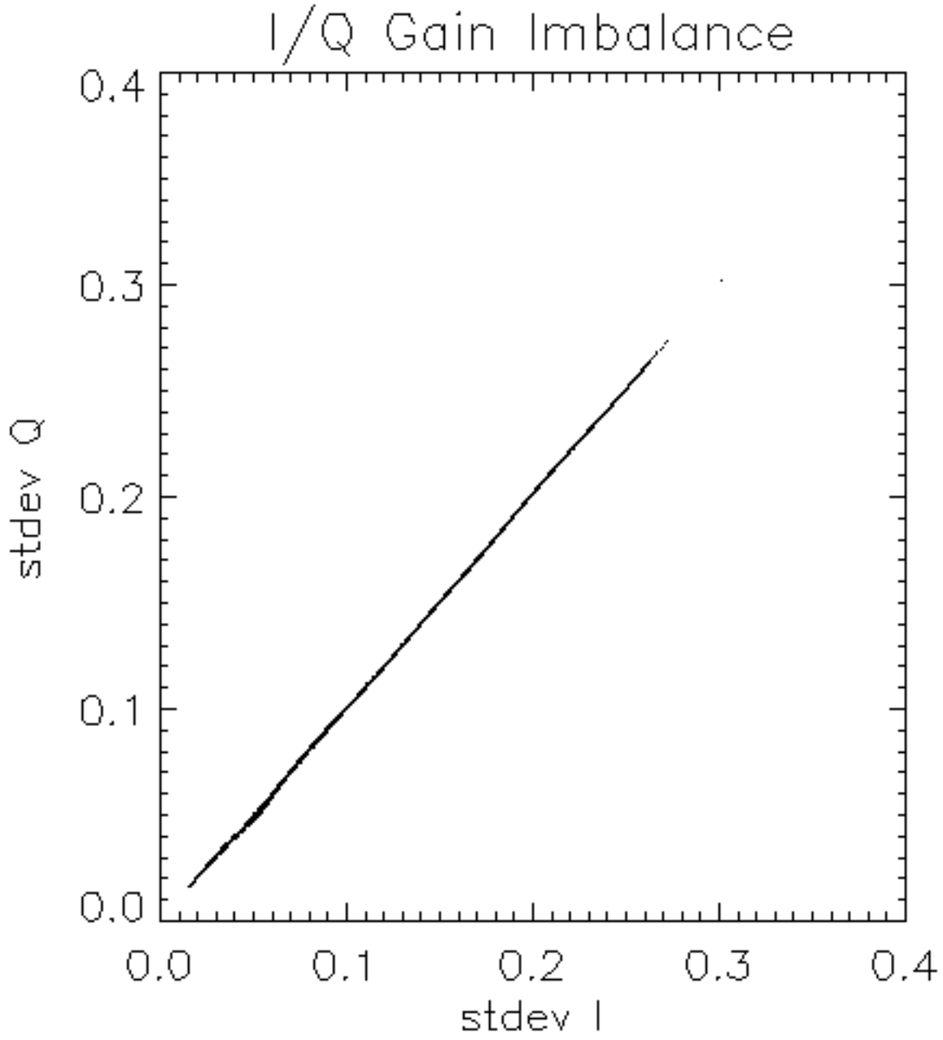
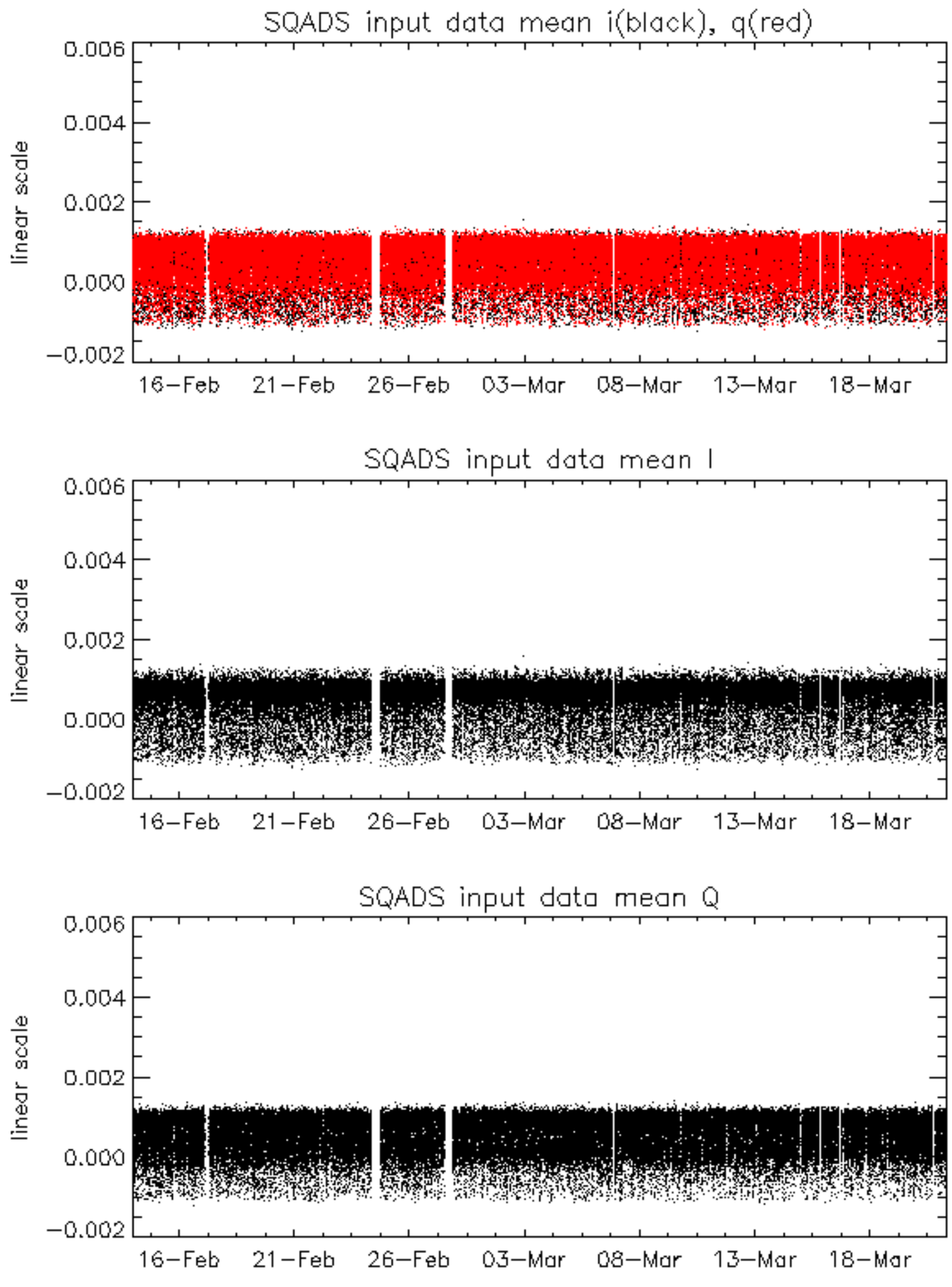
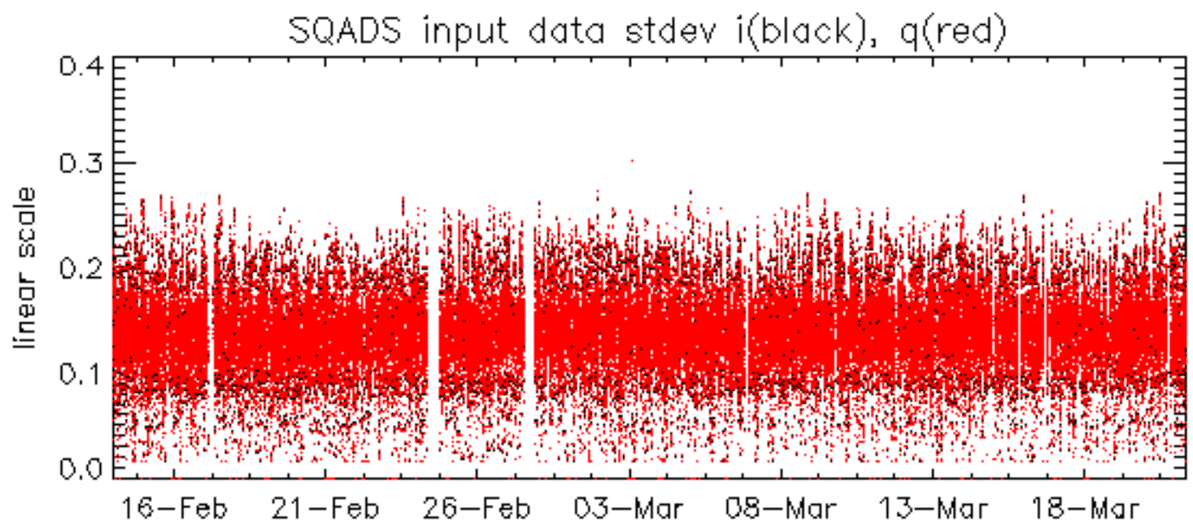
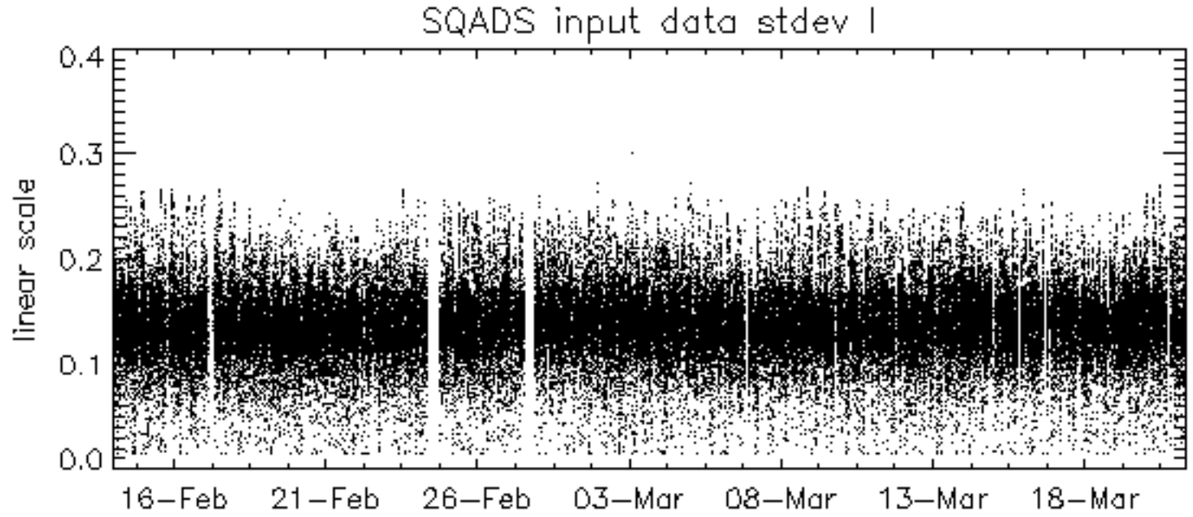
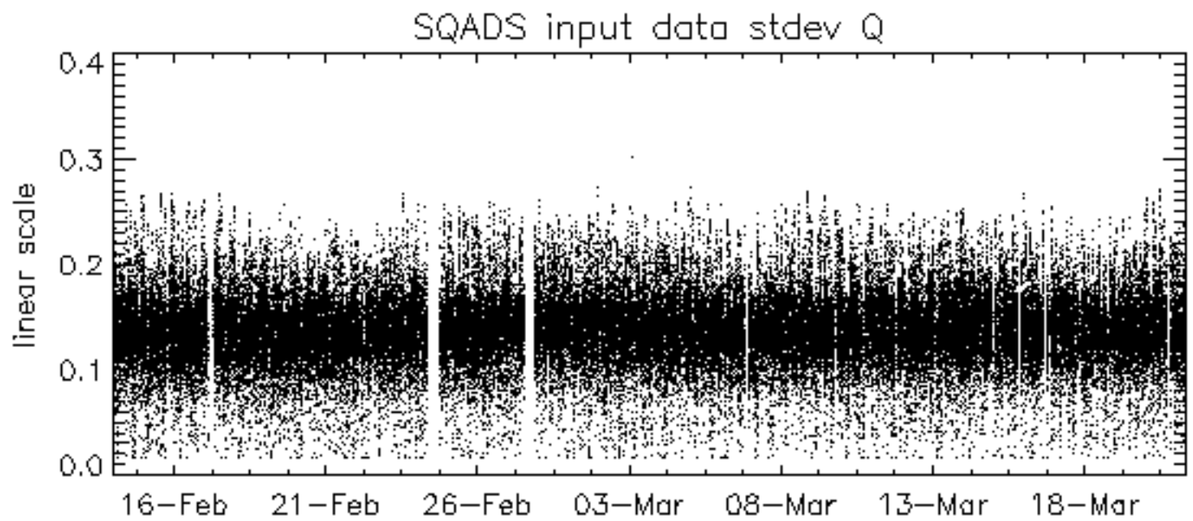
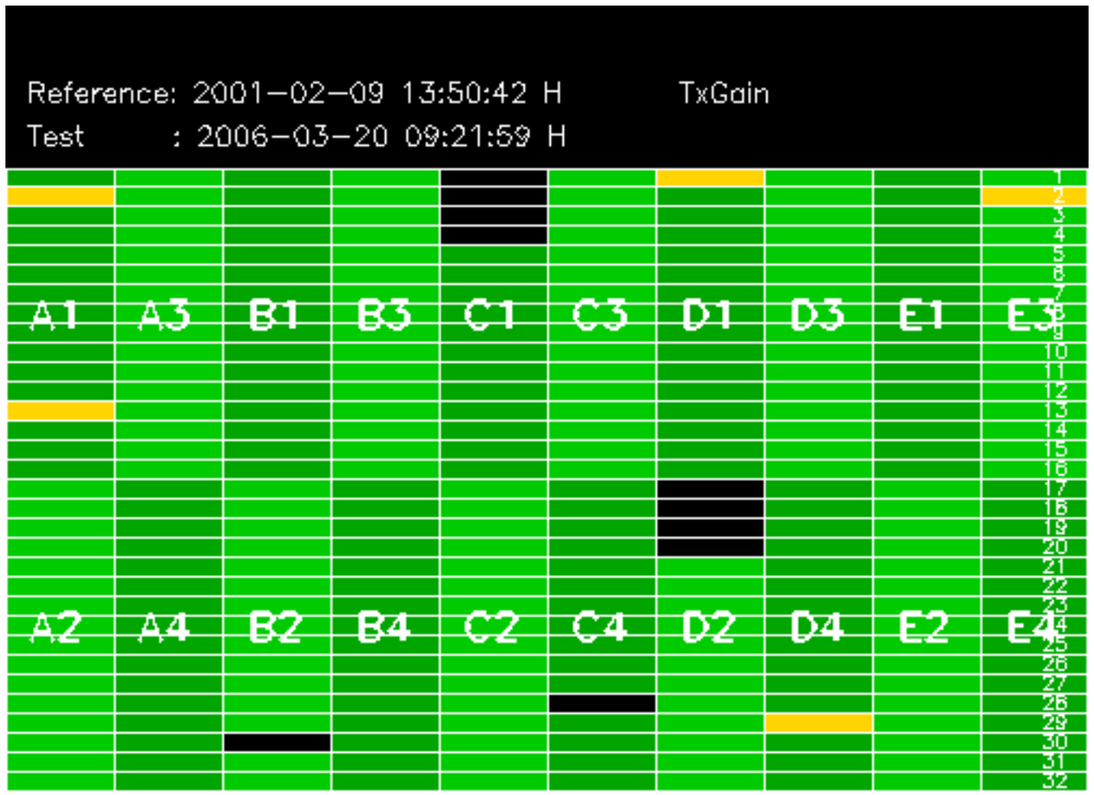

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I


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 : 2006-03-20 09:21:59 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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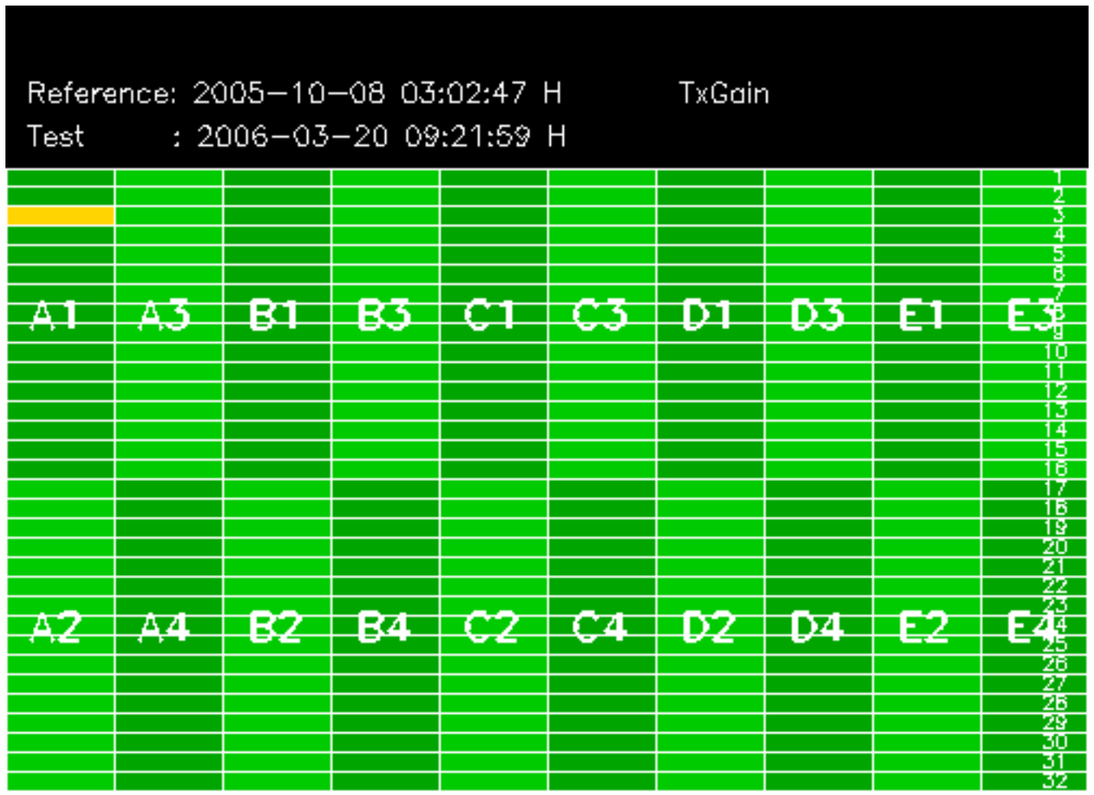
Reference: 2005-10-08 03:02:47 H
Test : 2006-03-20 09:21:59 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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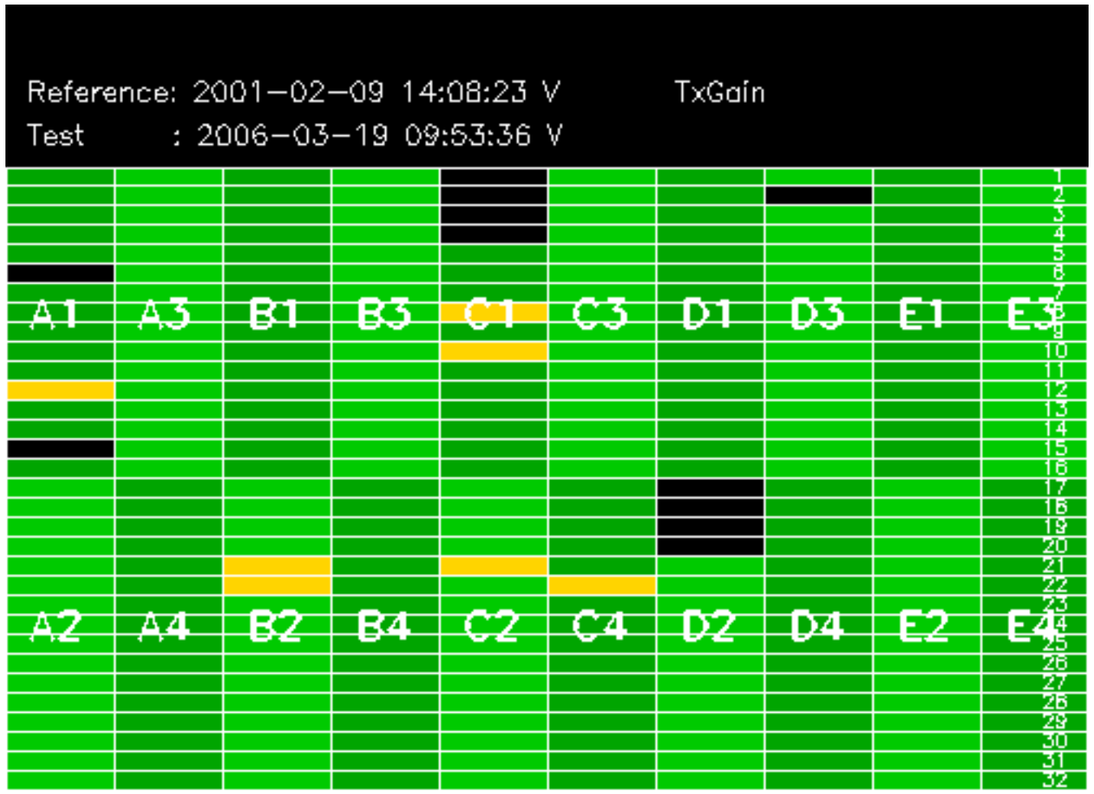
Reference: 2001-02-09 14:08:23 V
Test : 2006-03-19 09:53:36 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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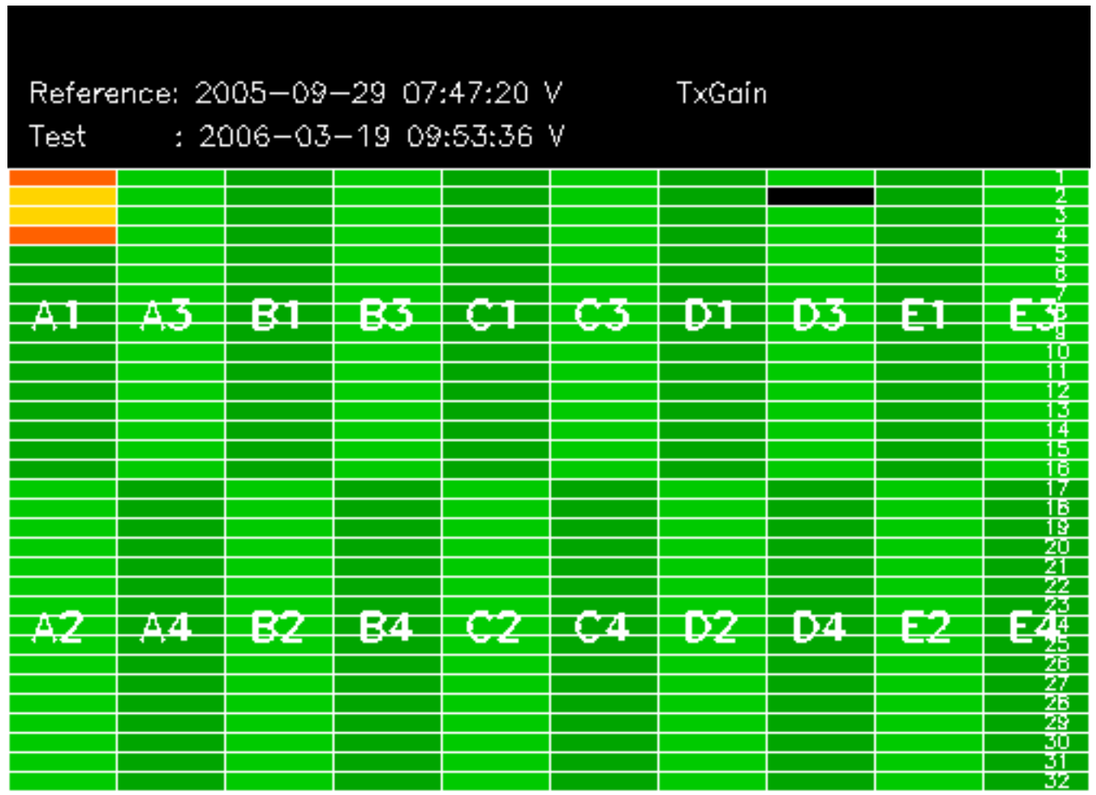
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-19 09:53:36 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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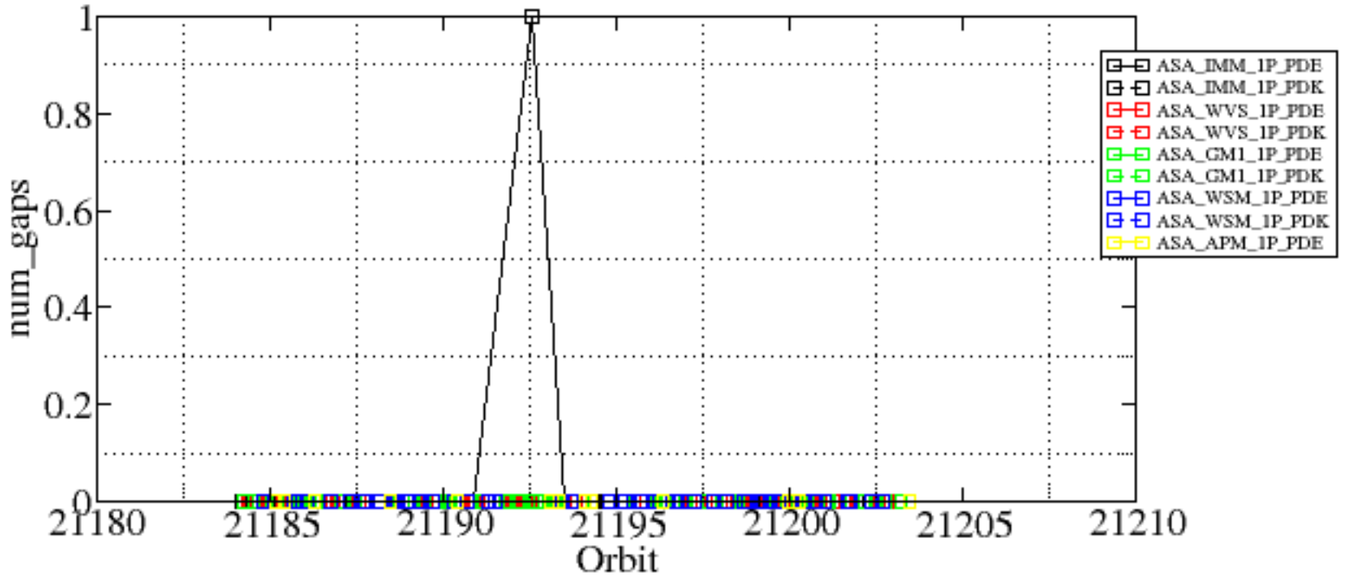
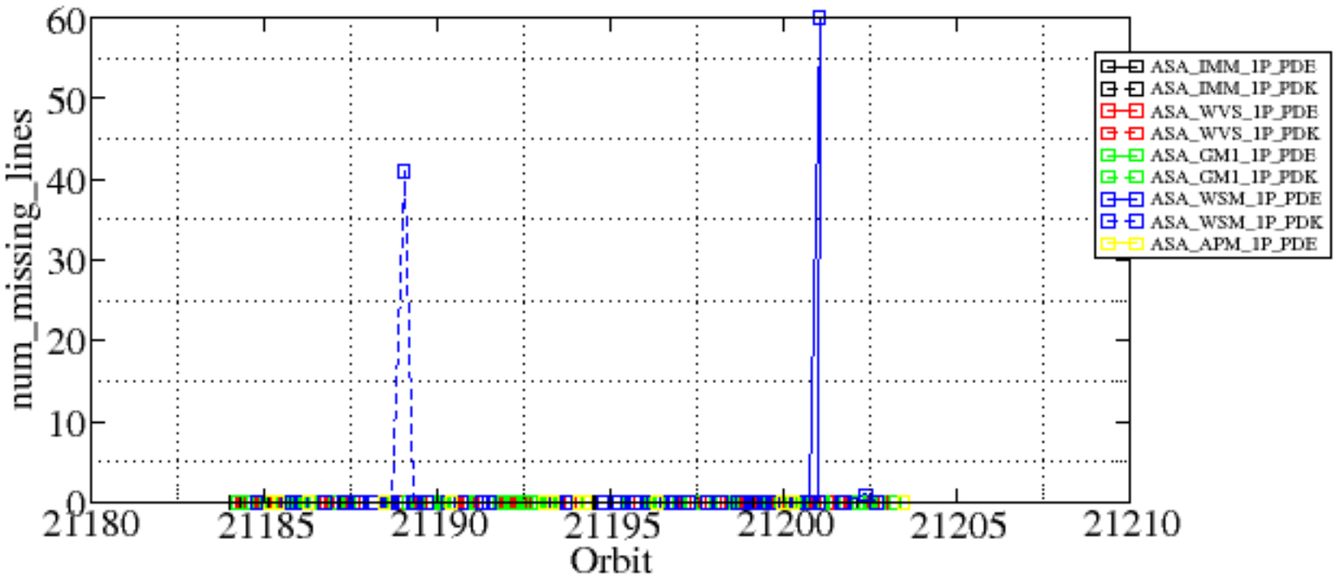
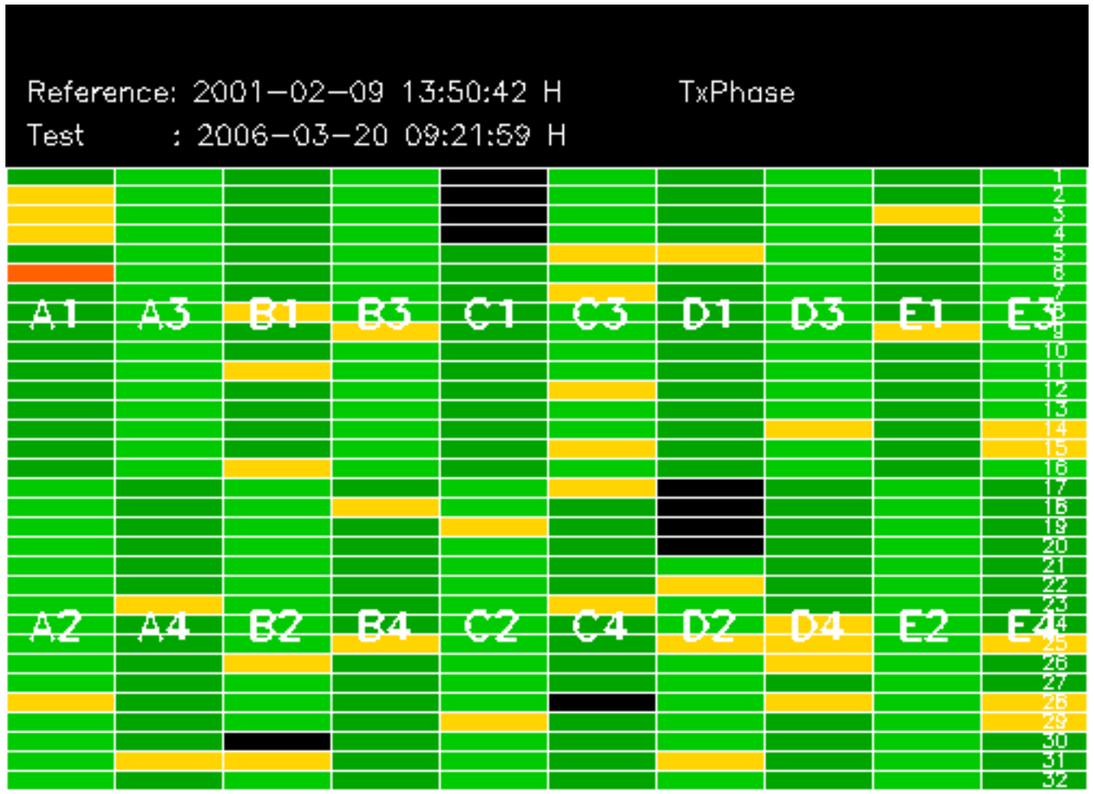
Summary of analysis for the last 3 days 2006032[901]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060320_141119_000001602046_00096_21192_1254.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060321_042632_000001842046_00105_21201_1778.N1 </td> <td>0 </td> <td>60 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060321_063926_000000852046_00106_21202_1792.N1 </td> <td>0 </td> <td>1 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20060320_081910_000000862046_00093_21189_0874.N1 </td> <td>0 </td> <td>41 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
21180
21185
21190
21195
21200
21205
21210
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
60
50
40
30
20
10
0
21180
21185
21190
21195
21200
21205
21210
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
TxPhase
Test : 2006-03-20 09:21:59 H
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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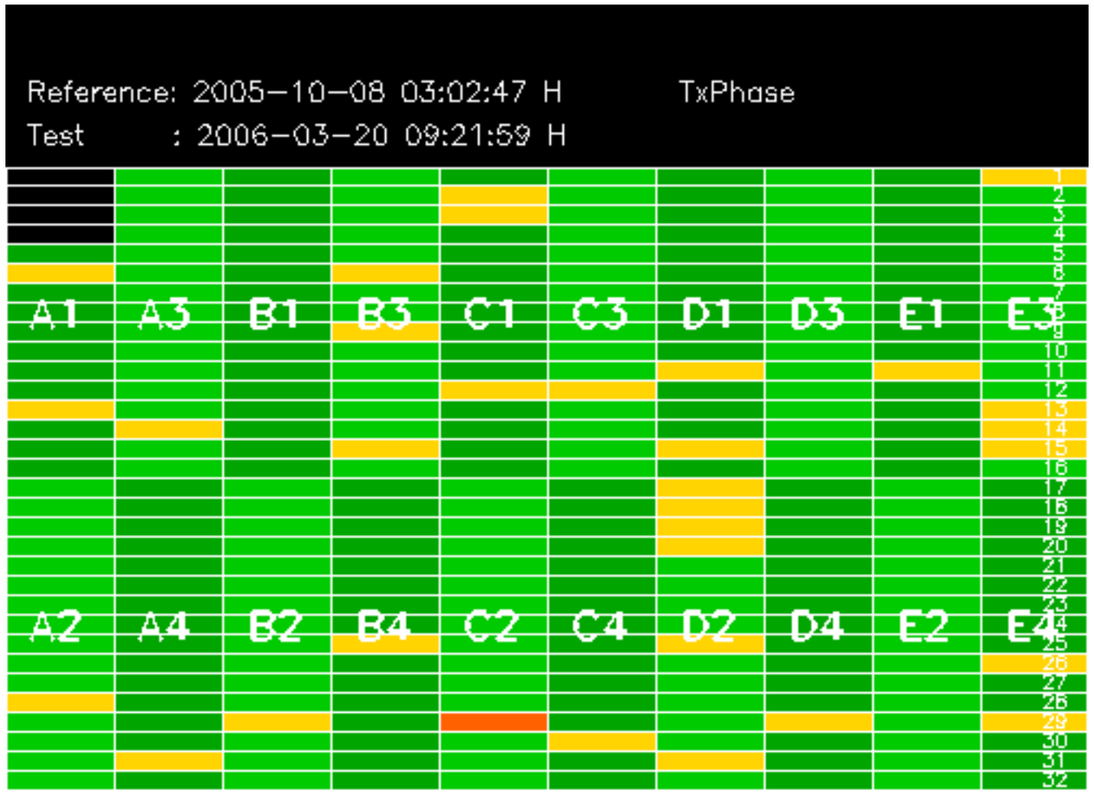
Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2006-03-20 09:21:59 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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C4
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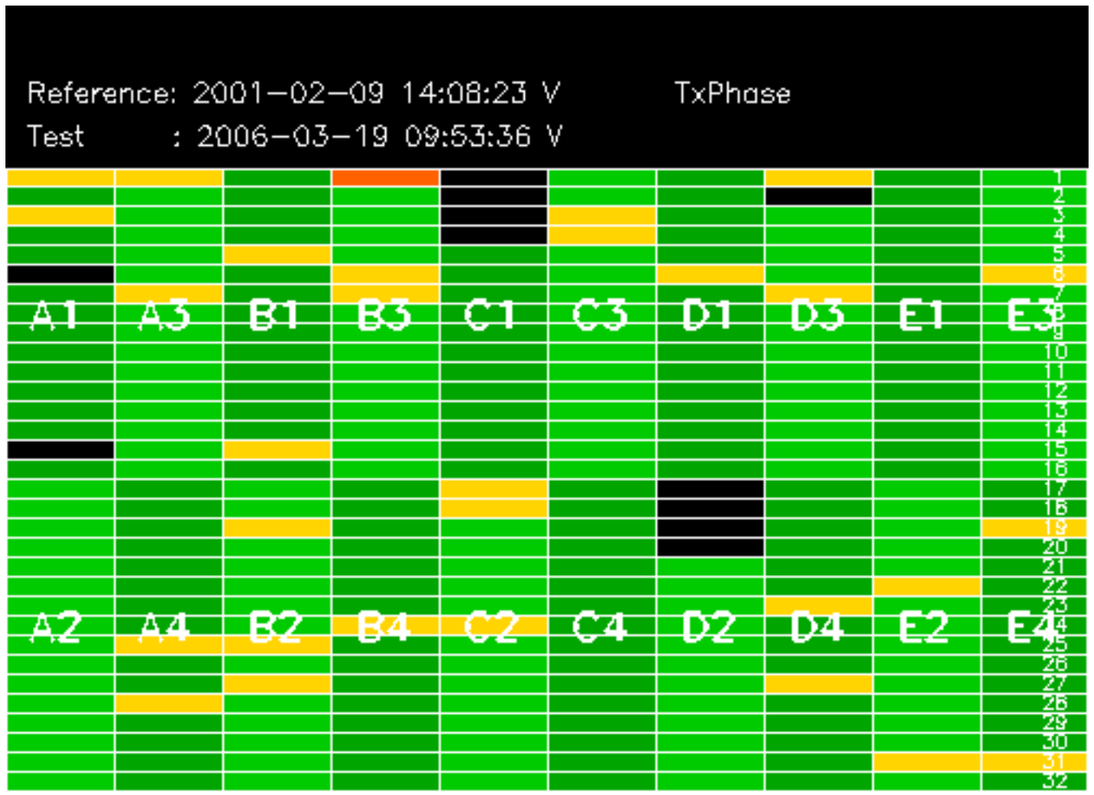
Reference: 2001-02-09 14:08:23 V
Test : 2006-03-19 09:53:36 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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E4
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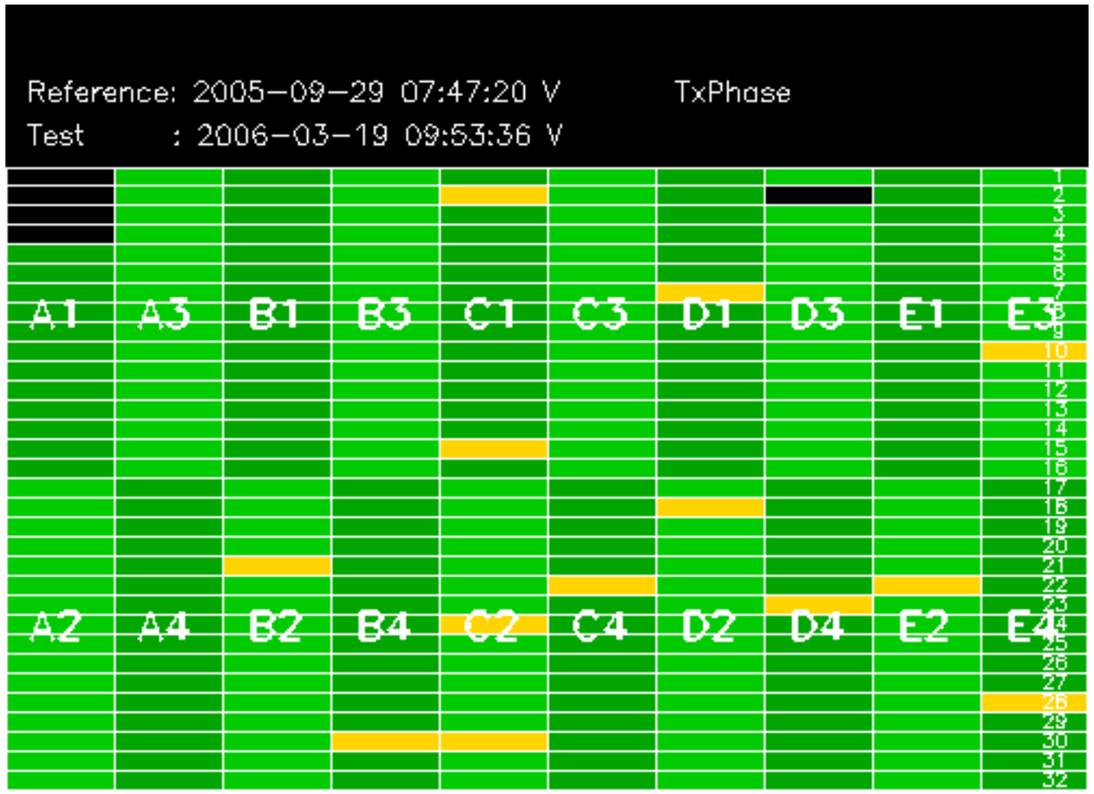
Reference: 2005-09-29 07:47:20 V
Test : 2006-03-19 09:53:36 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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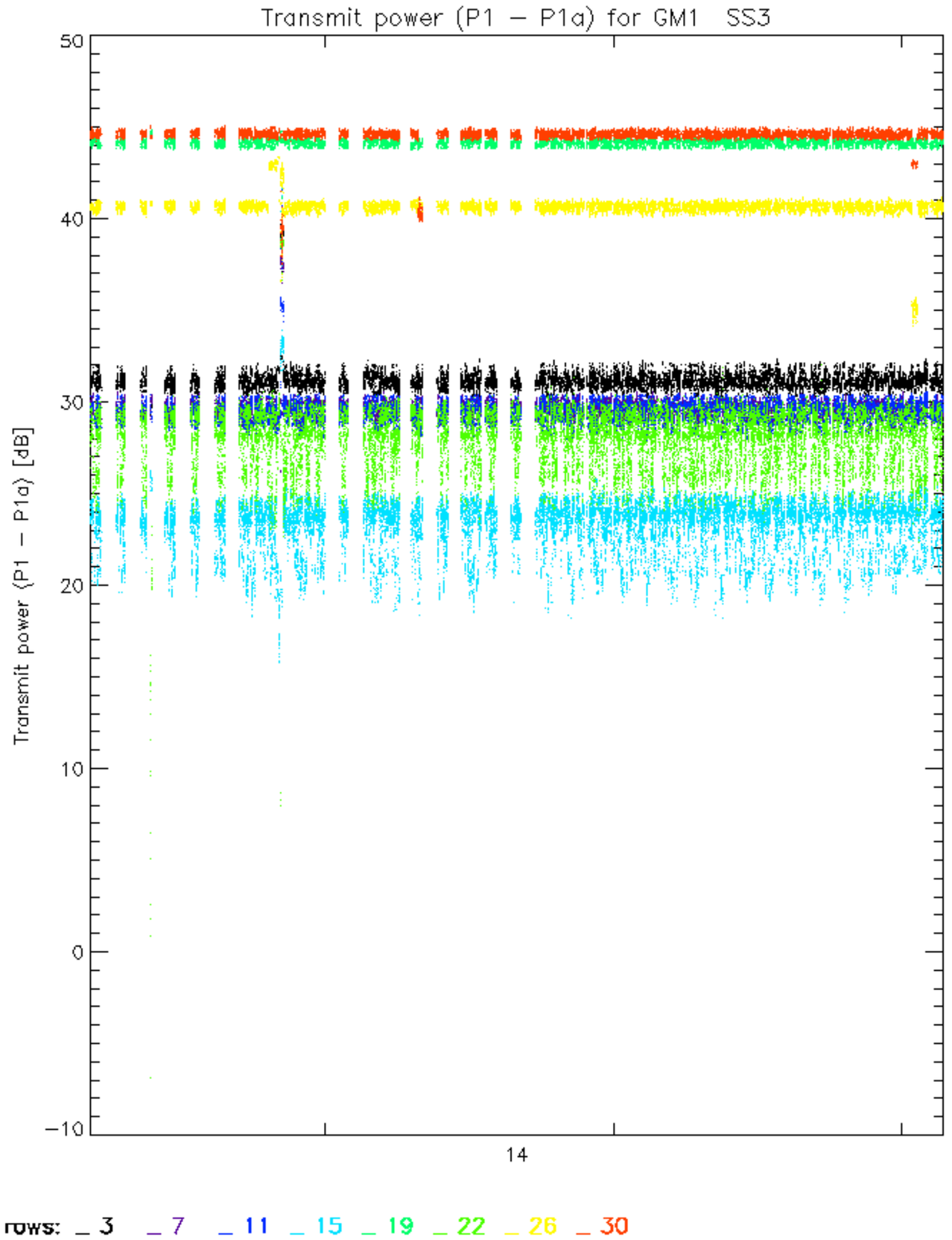
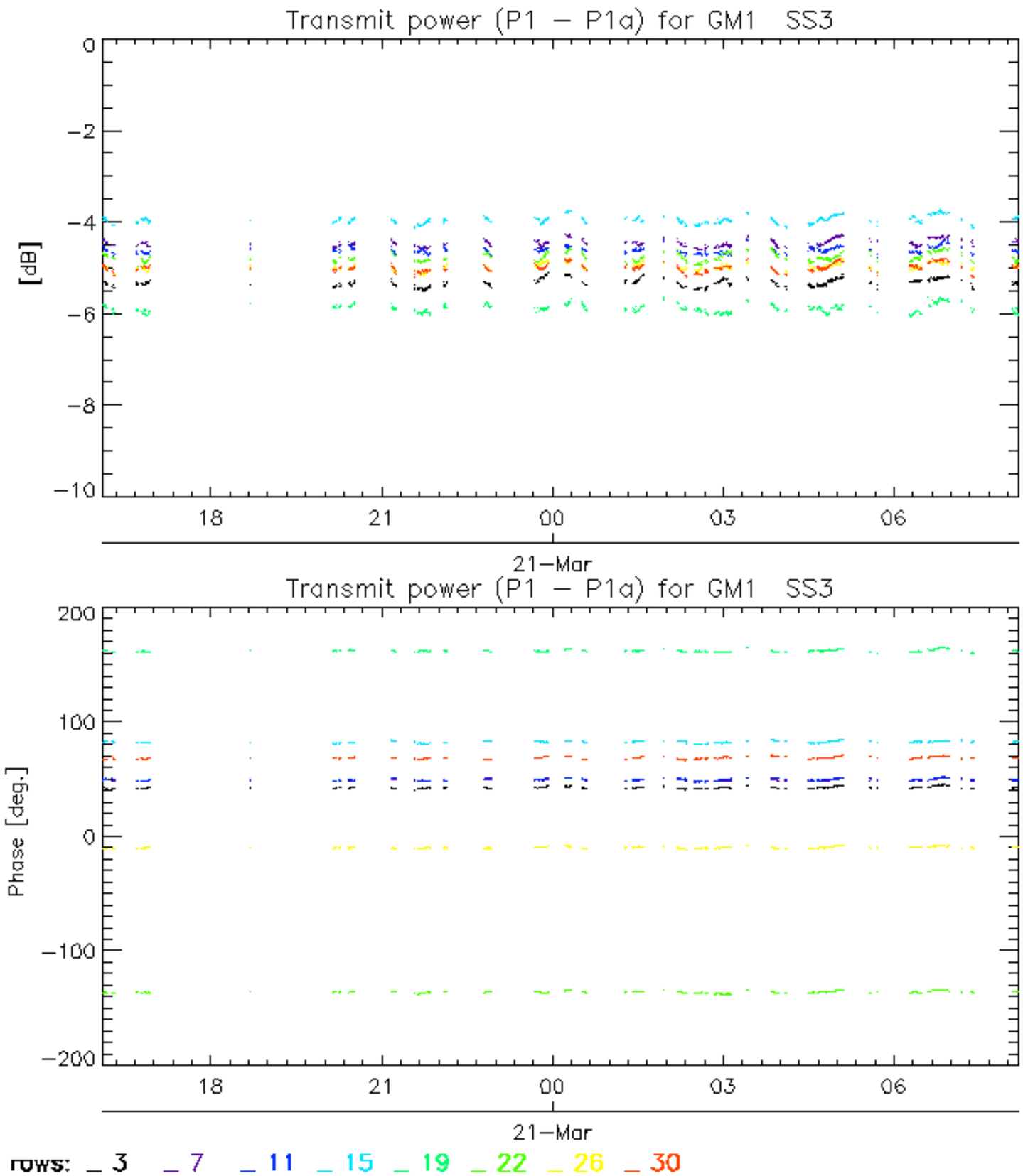
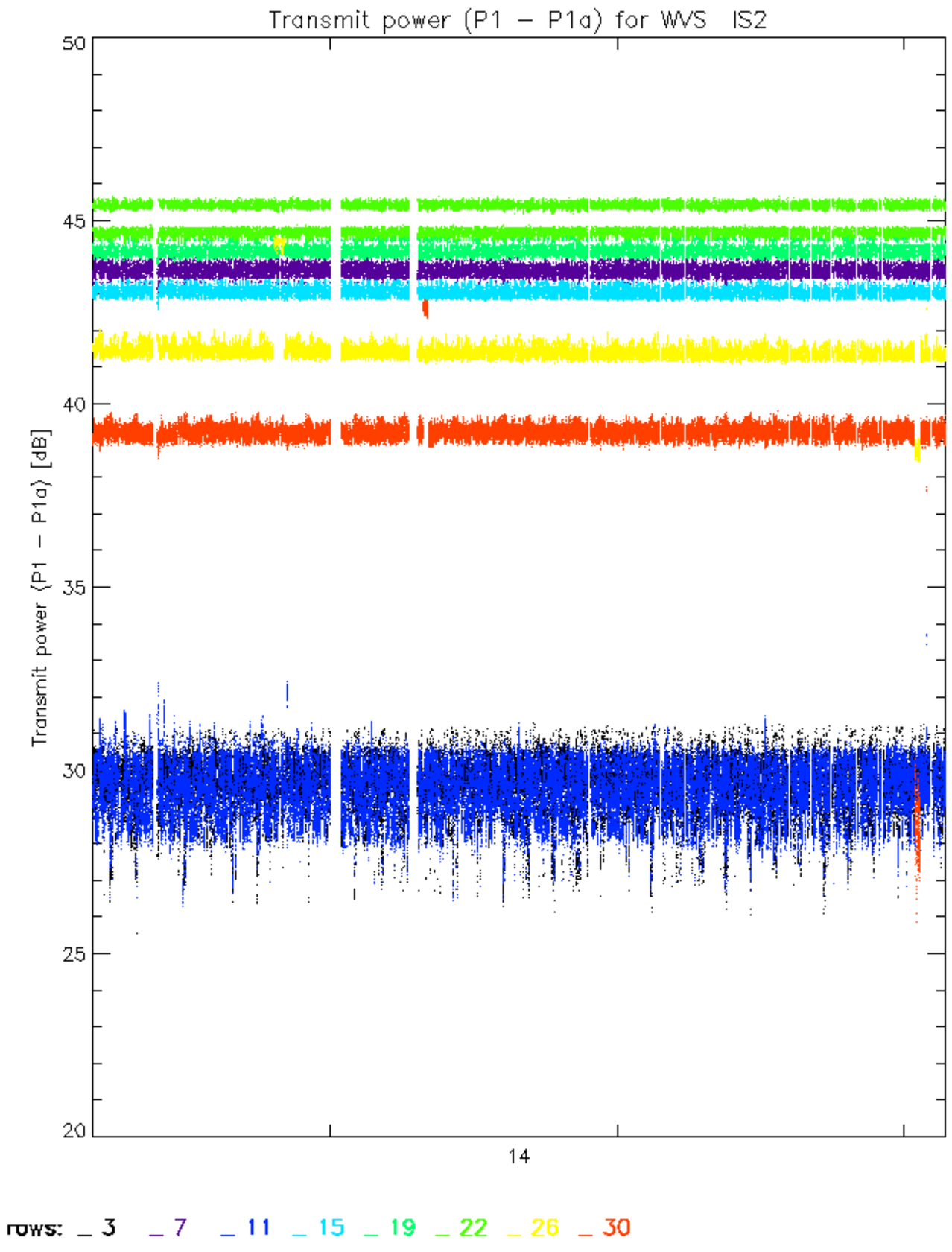
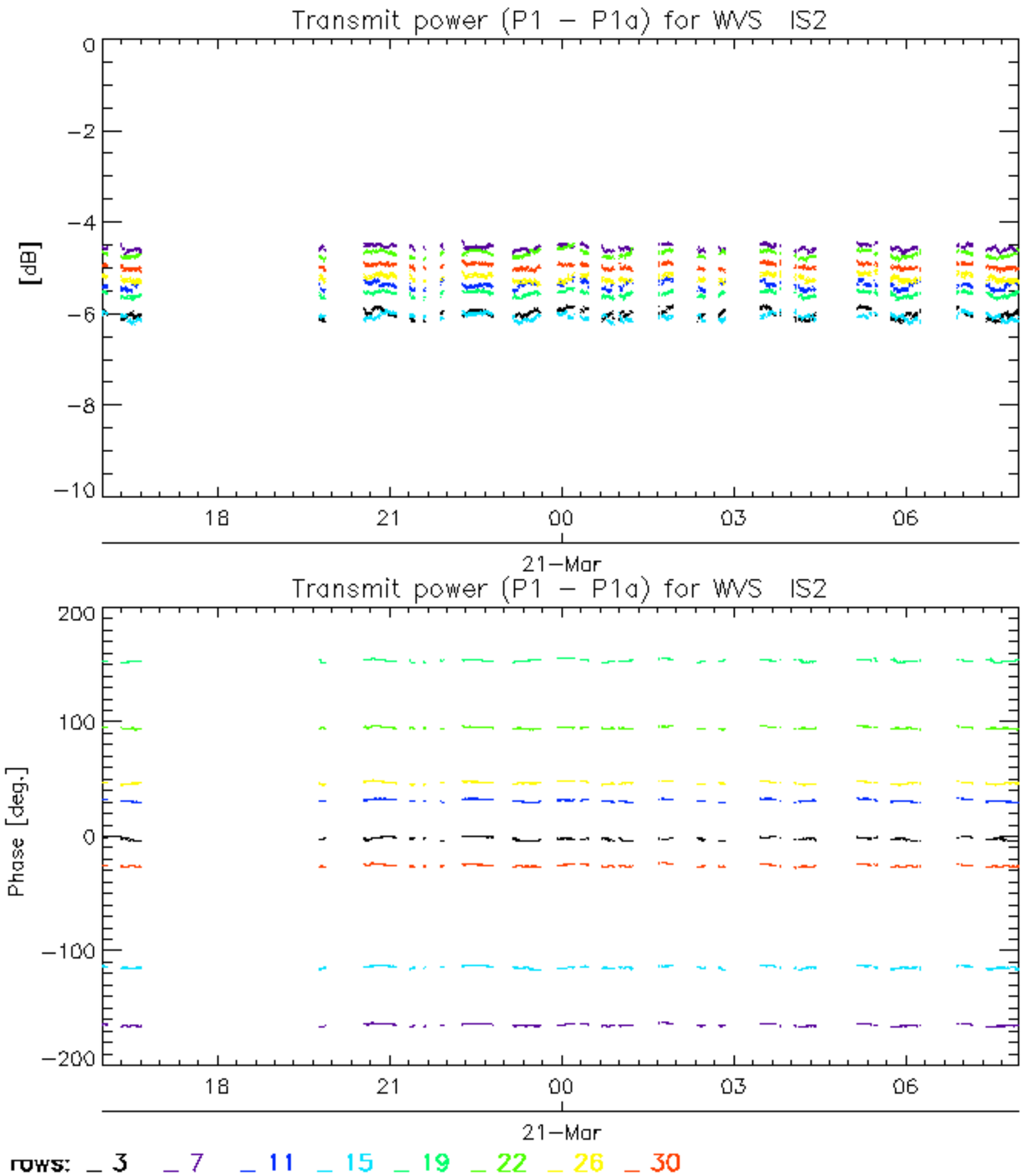
24
25
26
27
28
29
30
31
32


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
14
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
21–Mar
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
21–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
14
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
21–Mar
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
21–Mar
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.