PRELIMINARY REPORT OF 070224

last update on Sat Feb 24 16:24:19 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

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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 2007-02-23 00:00:00 to 2007-02-24 16:24:19

PDHS-K					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20070222_190441_20070204_165113_20071231_000000	40	68	11	0	21
ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	40	68	11	0	21
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	40	68	11	0	21
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	40	68	11	0	21

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20070222_190441_20070204_165113_20071231_000000	34	33	60	11	17
ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	34	33	60	11	17
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	34	33	60	11	17
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	34	33	60	11	17

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	20070222 100804
H	20070223 143815

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	-15.139049	0.219078	1.189428
7	P1a	-17.401875	0.106035	-0.131144
11	P1a	-17.310314	0.350068	0.086403
15	P1a	-12.839390	0.104934	-0.112994
19	P1a	-15.086635	0.092646	-0.010564
22	P1a	-15.483347	0.477046	-0.003655
26	P1a	-15.025106	0.208638	-0.220238
30	P1a	-17.307800	0.343306	-0.198037

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-5.626544	0.137163	-1.266888
7	P1	-3.102327	0.009215	-0.024471
11	P1	-4.124219	0.019313	-0.014606
15	P1	-6.326976	0.016016	-0.053637
19	P1	-3.708447	0.008679	-0.014873
22	P1	-4.668126	0.014260	0.025886
26	P1	-3.927696	0.013008	-0.004779
30	P1	-5.913620	0.011807	-0.003108

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-22.549976	0.244200	-1.365717
7	P2	-21.592924	0.083775	0.098660
11	P2	-15.479688	0.101151	0.012831
15	P2	-7.006109	0.098190	0.004284

19	P2	-9.073529	0.086548	0.010785
22	P2	-18.097681	0.081447	-0.023447
26	P2	-16.496622	0.094578	-0.002686
30	P2	-19.327438	0.077382	0.010085

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.194181	0.007681	0.019514
7	P3	-8.194181	0.007681	0.019514
11	P3	-8.194181	0.007681	0.019514
15	P3	-8.194181	0.007681	0.019514
19	P3	-8.194181	0.007681	0.019514
22	P3	-8.194181	0.007681	0.019514
26	P3	-8.194181	0.007681	0.019514
30	P3	-8.194181	0.007681	0.019514

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	-11.287521	0.137608	0.964842
7	P1a	-10.036661	0.063943	-0.048321
11	P1a	-10.586983	0.058158	-0.211854
15	P1a	-10.855801	0.131552	-0.088198
19	P1a	-15.738953	0.064562	0.031909
22	P1a	-20.863388	1.268027	0.284790
26	P1a	-15.418693	0.264717	0.245329
30	P1a	-18.337961	0.358371	-0.077328

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)

3	P1	-7.031441	3.723232	-6.072147
7	P1	-2.434190	0.005894	0.023636
11	P1	-2.886179	0.015920	-0.082237
15	P1	-3.803676	0.033149	-0.090144
19	P1	-3.549599	0.012458	0.000554
22	P1	-5.025211	0.022709	-0.007705
26	P1	-5.986498	0.023551	0.048123
30	P1	-5.284276	0.022774	0.025270

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.499649	0.749298	-2.620231
7	P2	-21.988821	0.053085	0.150708
11	P2	-10.667940	0.030637	0.089858
15	P2	-4.821713	0.027180	0.069759
19	P2	-6.818611	0.028412	0.078223
22	P2	-8.124411	0.029798	0.092660
26	P2	-24.247524	0.032187	0.025162
30	P2	-21.769865	0.036085	0.109505

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.042431	0.003235	0.044635
7	P3	-8.042434	0.003248	0.044469
11	P3	-8.042514	0.003240	0.044184
15	P3	-8.042433	0.003248	0.044472
19	P3	-8.042460	0.003232	0.044335
22	P3	-8.042551	0.003240	0.044293
26	P3	-8.042415	0.003240	0.044440
30	P3	-8.042459	0.003248	0.044233

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	0.000617432
	stdev	2.36689e-07
MEAN Q	mean	0.000391378
	stdev	2.50845e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.106260
	stdev	0.00258270
STDEV Q	mean	0.106303
	stdev	0.00263269

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2007022[234]
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_WSM_1PNPDE20070222_172653_000001032055_00442_26047_8220.N1	0	12
ASA_WSM_1PNPDE20070222_190519_000001092055_00443_26048_8248.N1	0	65
ASA_WSM_1PNPDE20070223_023249_000000852055_00447_26052_8839.N1	0	29
ASA_WSM_1PNPDE20070223_153029_000000242055_00455_26060_9423.N1	2	470
ASA_WSM_1PNPDK20070222_140625_000000852055_00440_26045_4805.N1	0	16
ASA_WSM_1PNPDK20070224_094429_000000852055_00466_26071_6572.N1	0	19

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

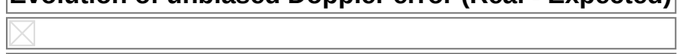
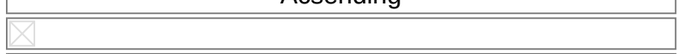
7.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler
Acsending
Descending

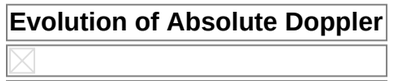
7.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX

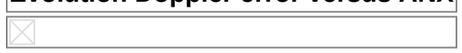
7.4 - Unbiased Doppler Error for GM1

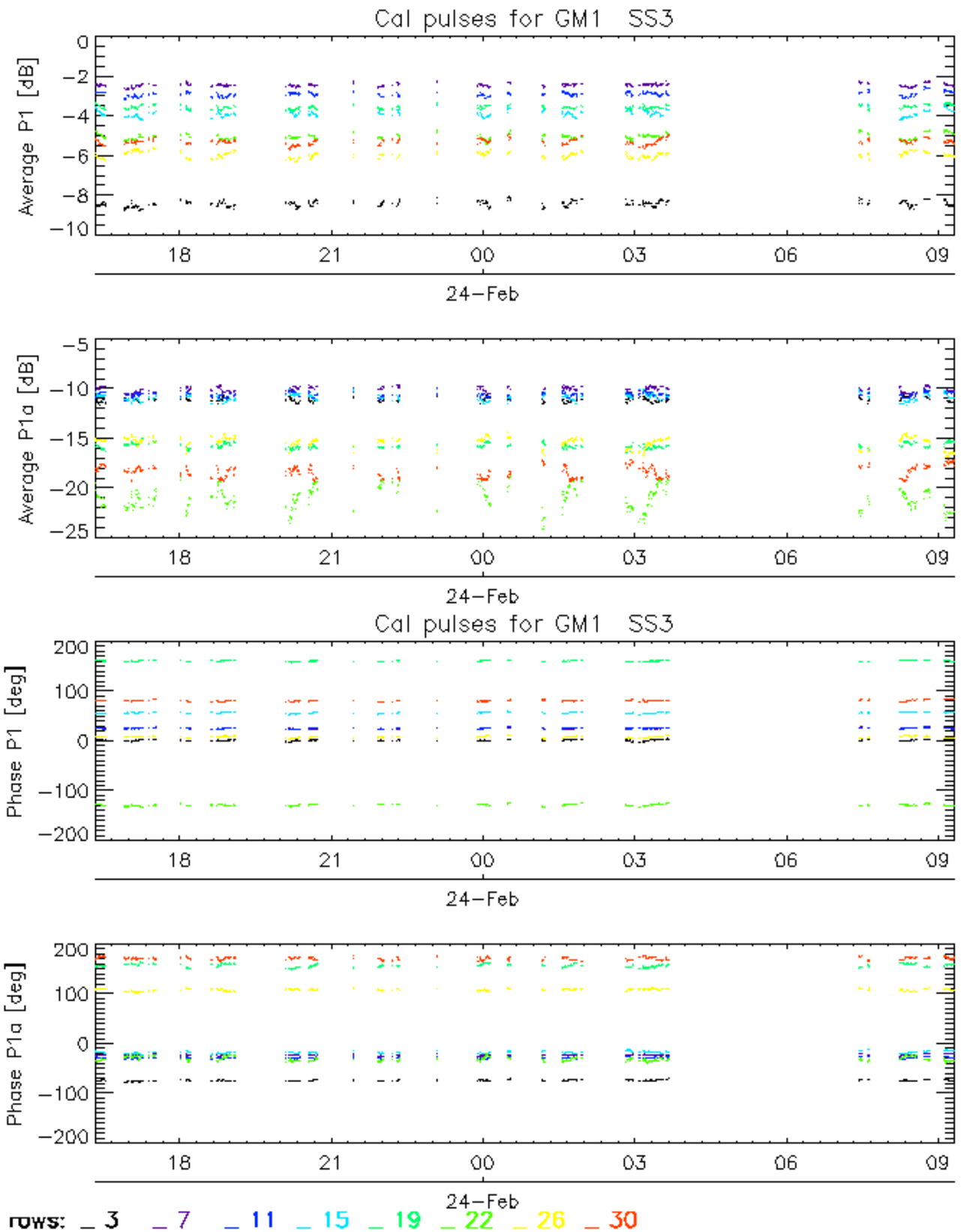
Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

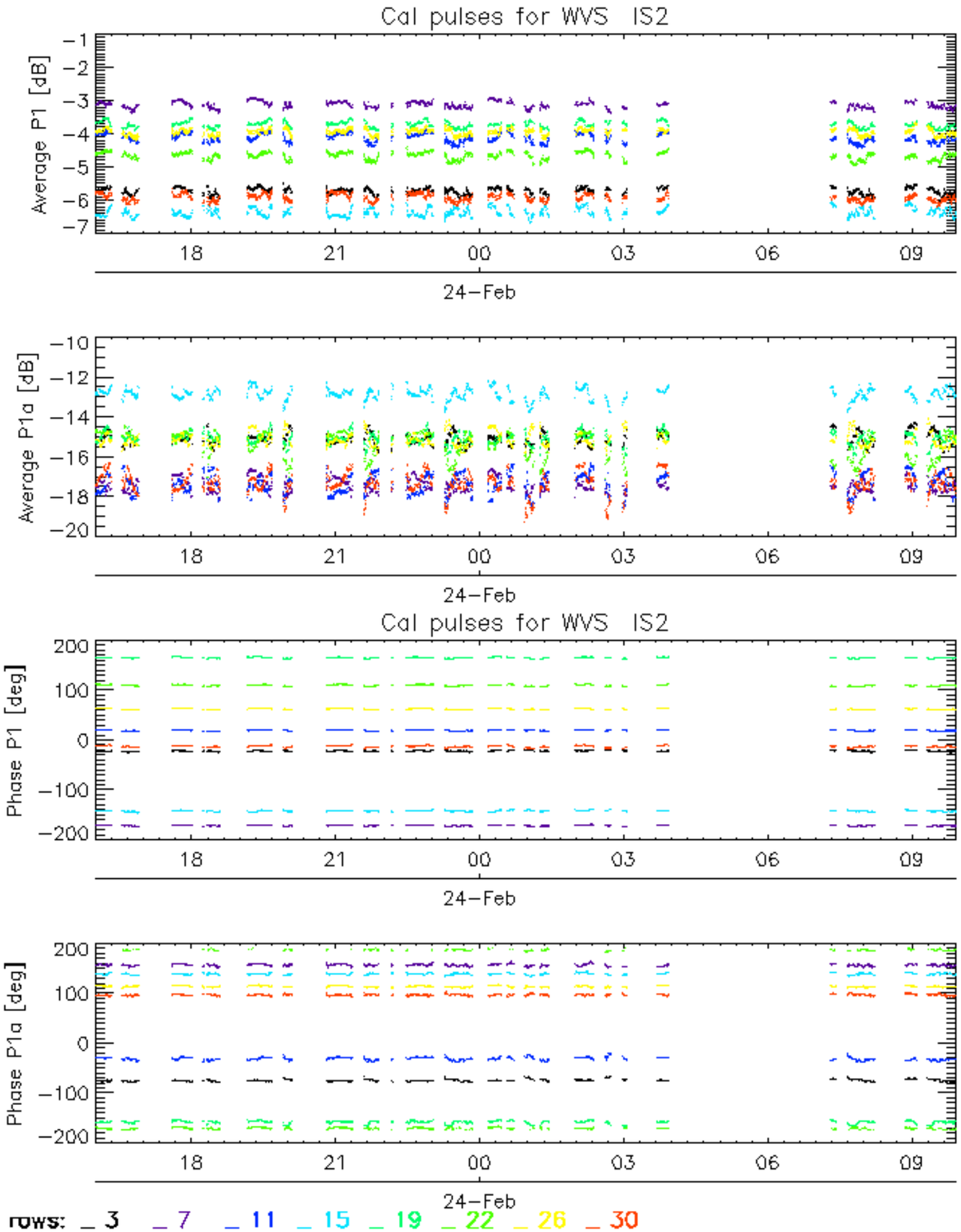
7.5 - Absolute Doppler for GM1

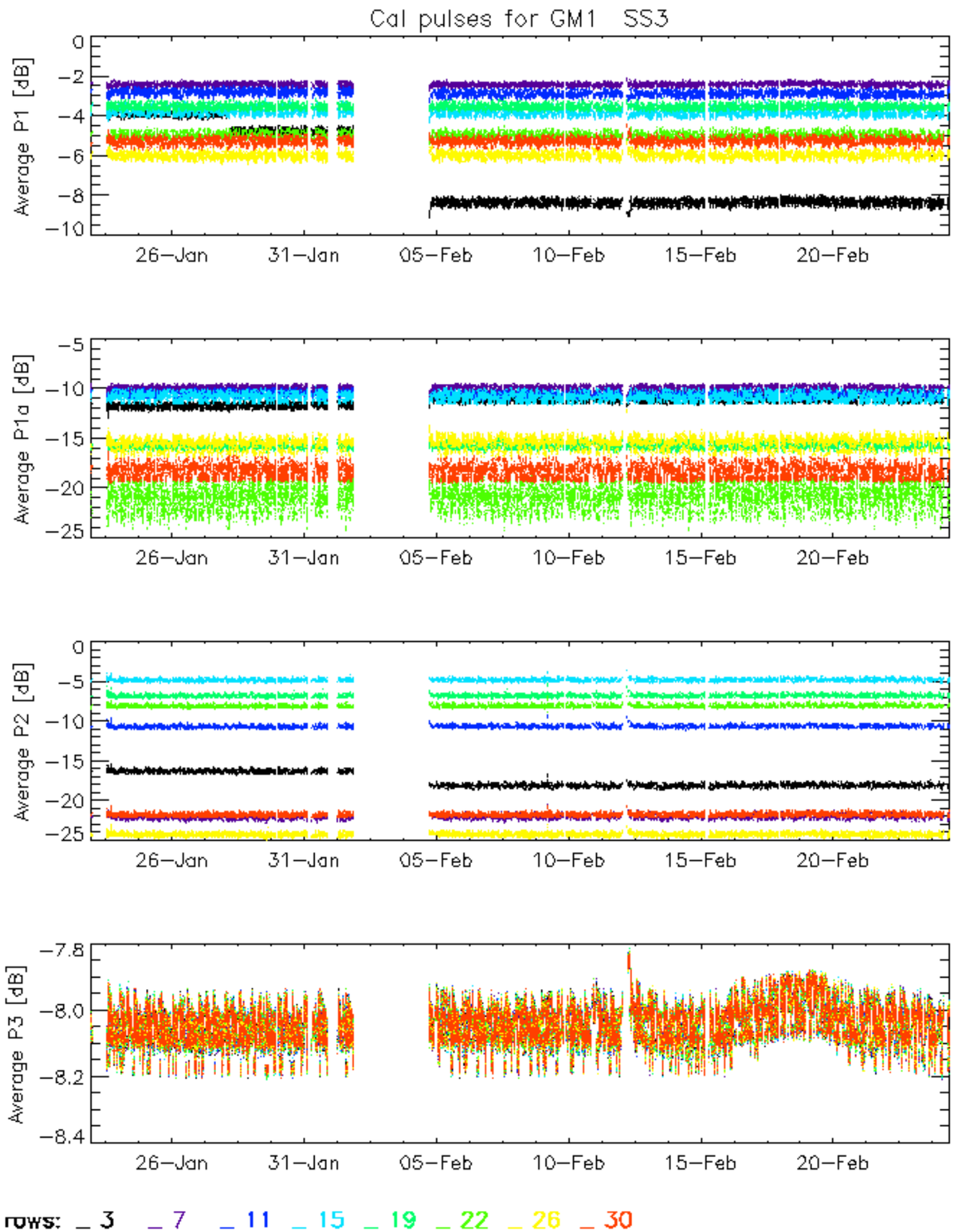
Evolution of Absolute Doppler

Acsending
Descending

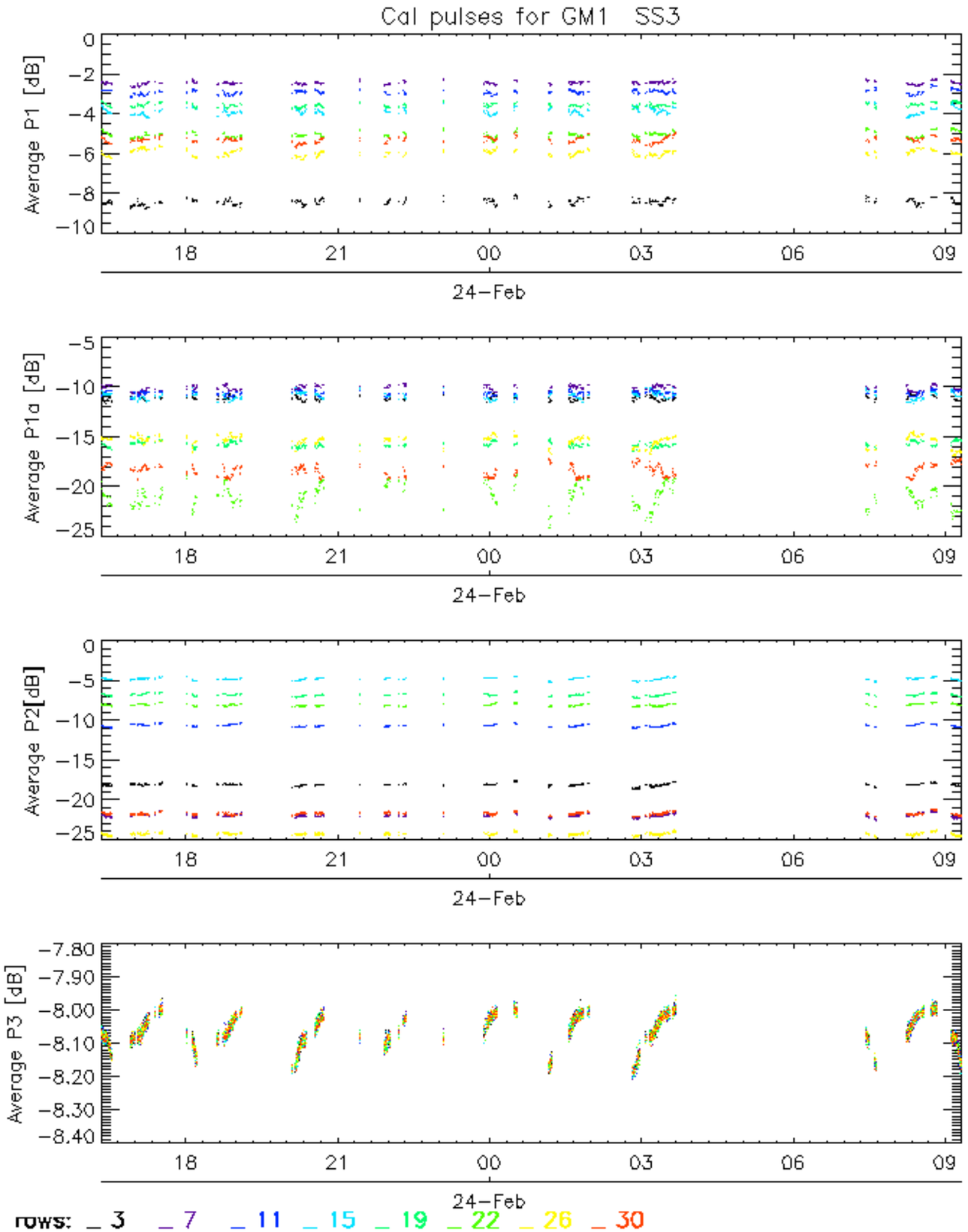
7.6 - Doppler evolution versus ANX for GM1

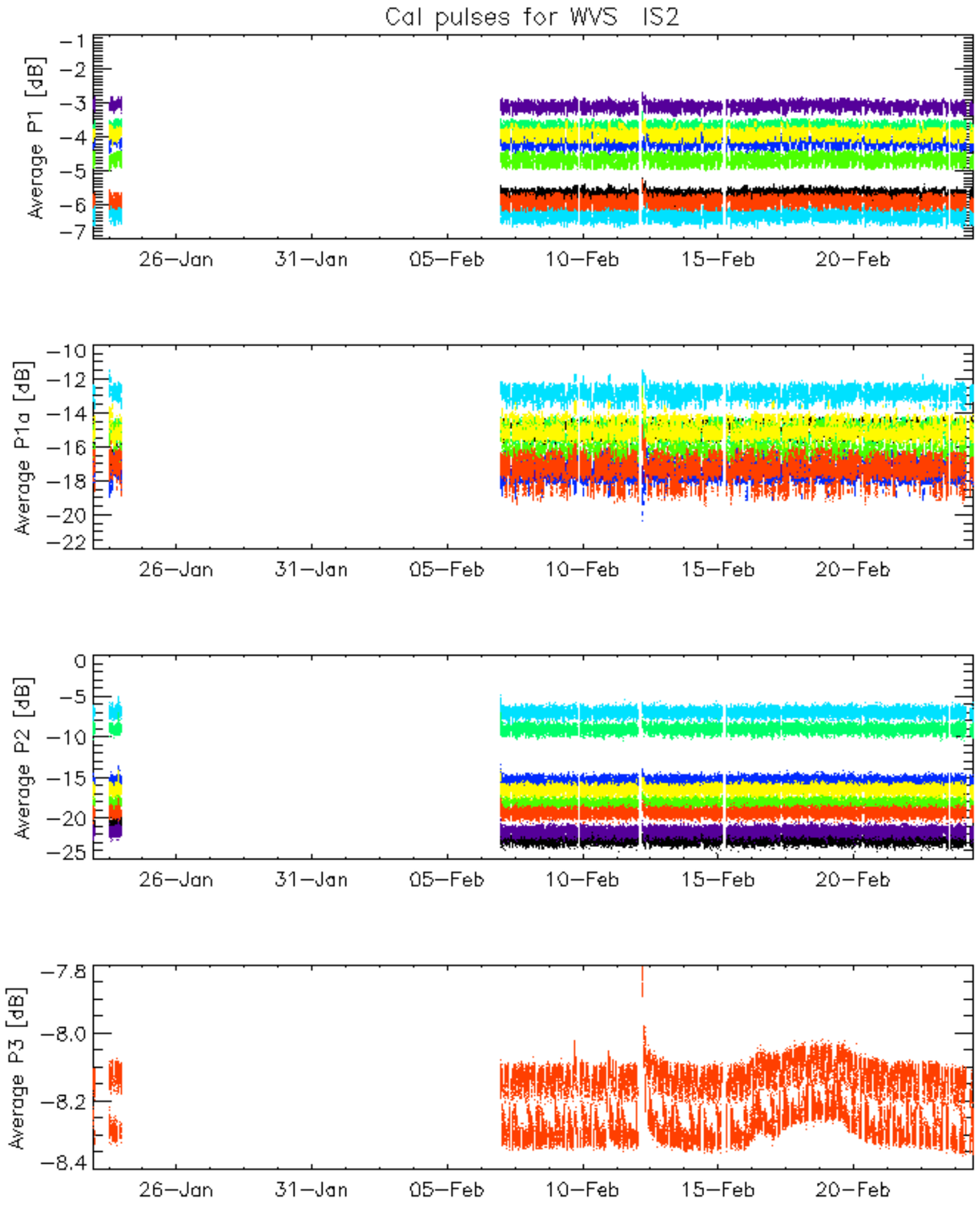
Evolution Doppler error versus ANX


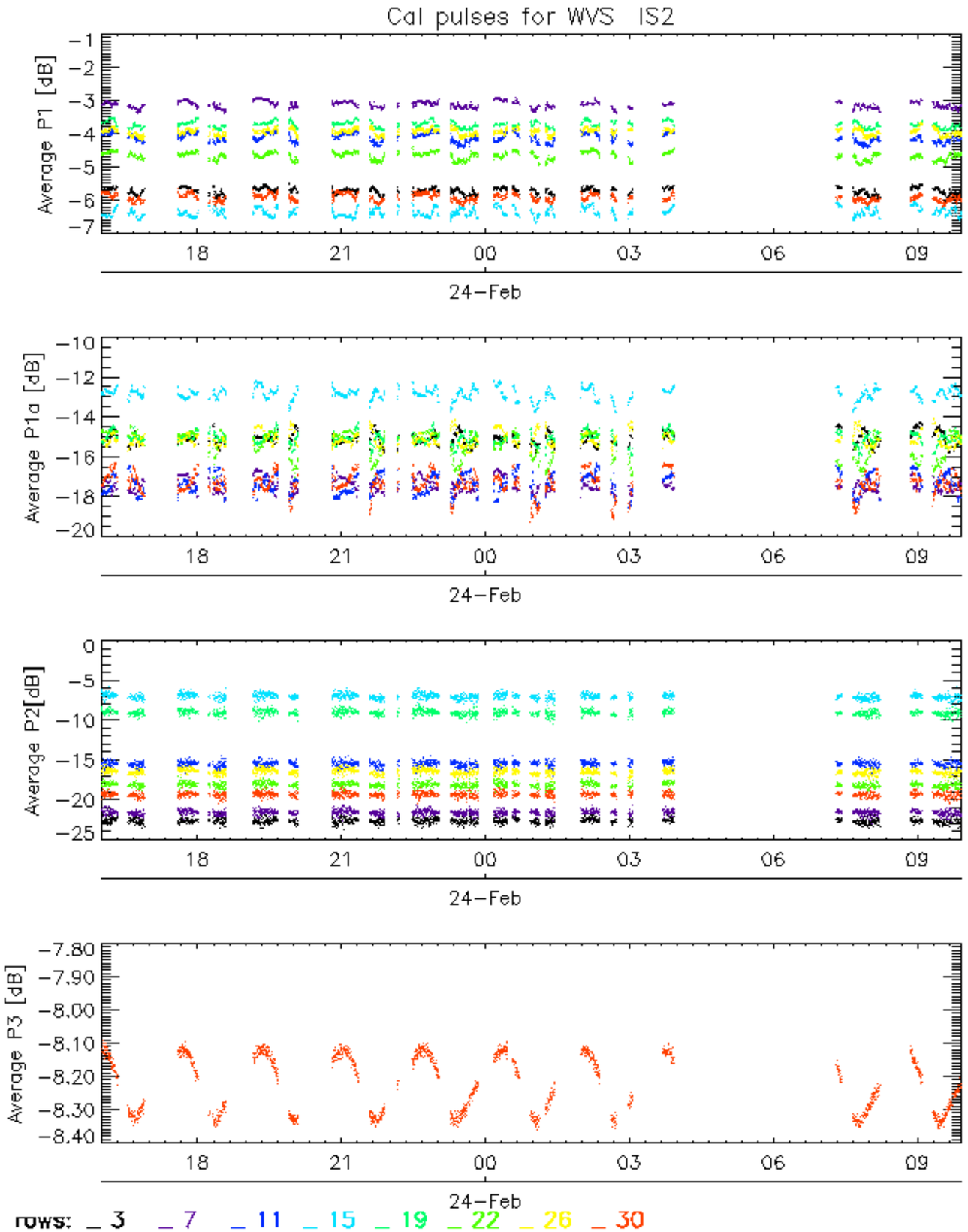

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
18
21
00
03
06
09
24−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
09
24−Feb
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
09
24−Feb
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
09
24−Feb
rows: _ 3 _ 7 _ 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
09
24−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
09
24−Feb
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
09
24−Feb
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
09
24−Feb
rows: 3 7 11 15 19 22 26 30


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

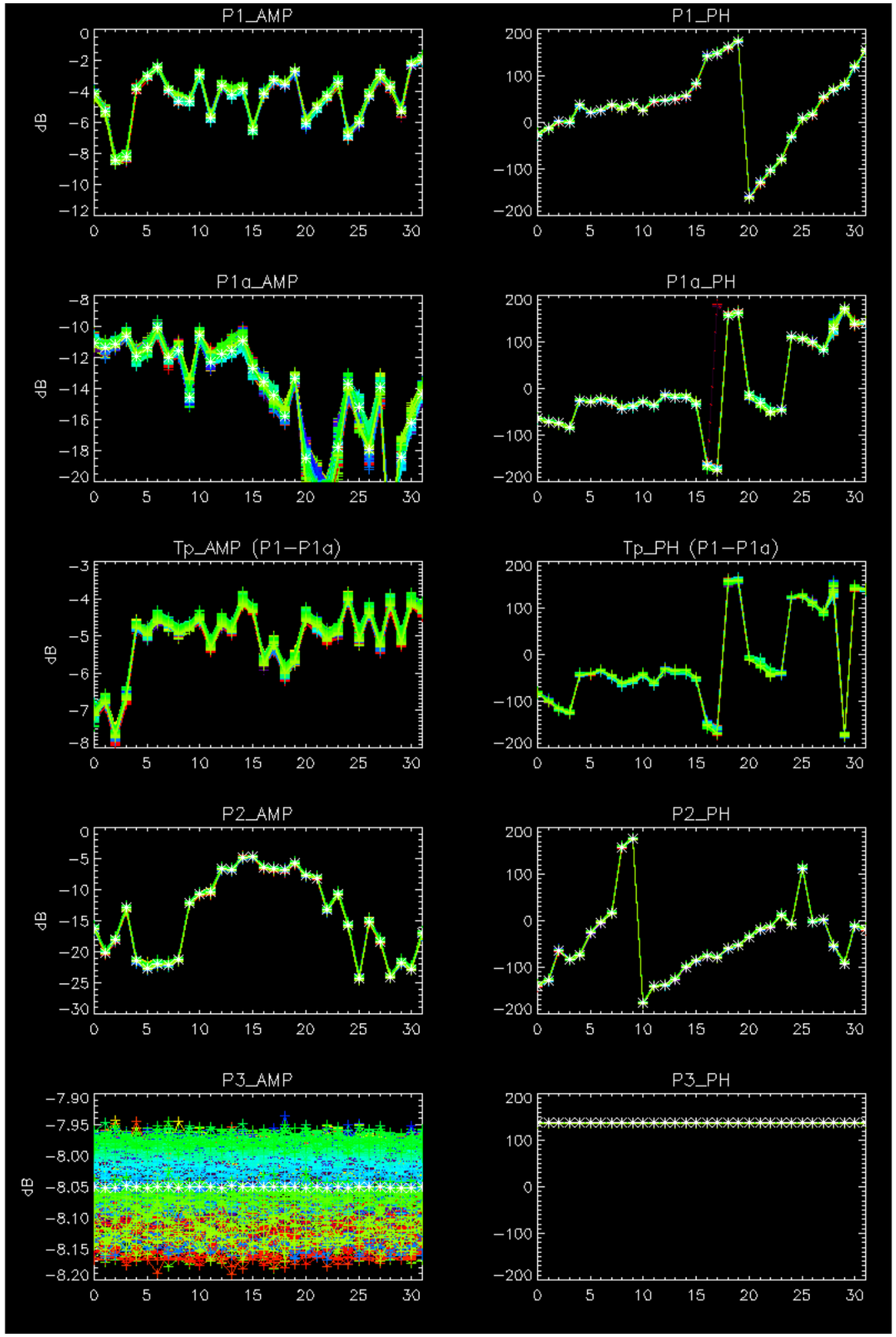

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
18
21
00
03
06
09
24−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
09
24−Feb
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
09
24−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
09
24−Feb
rows: _ 3 _ 7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

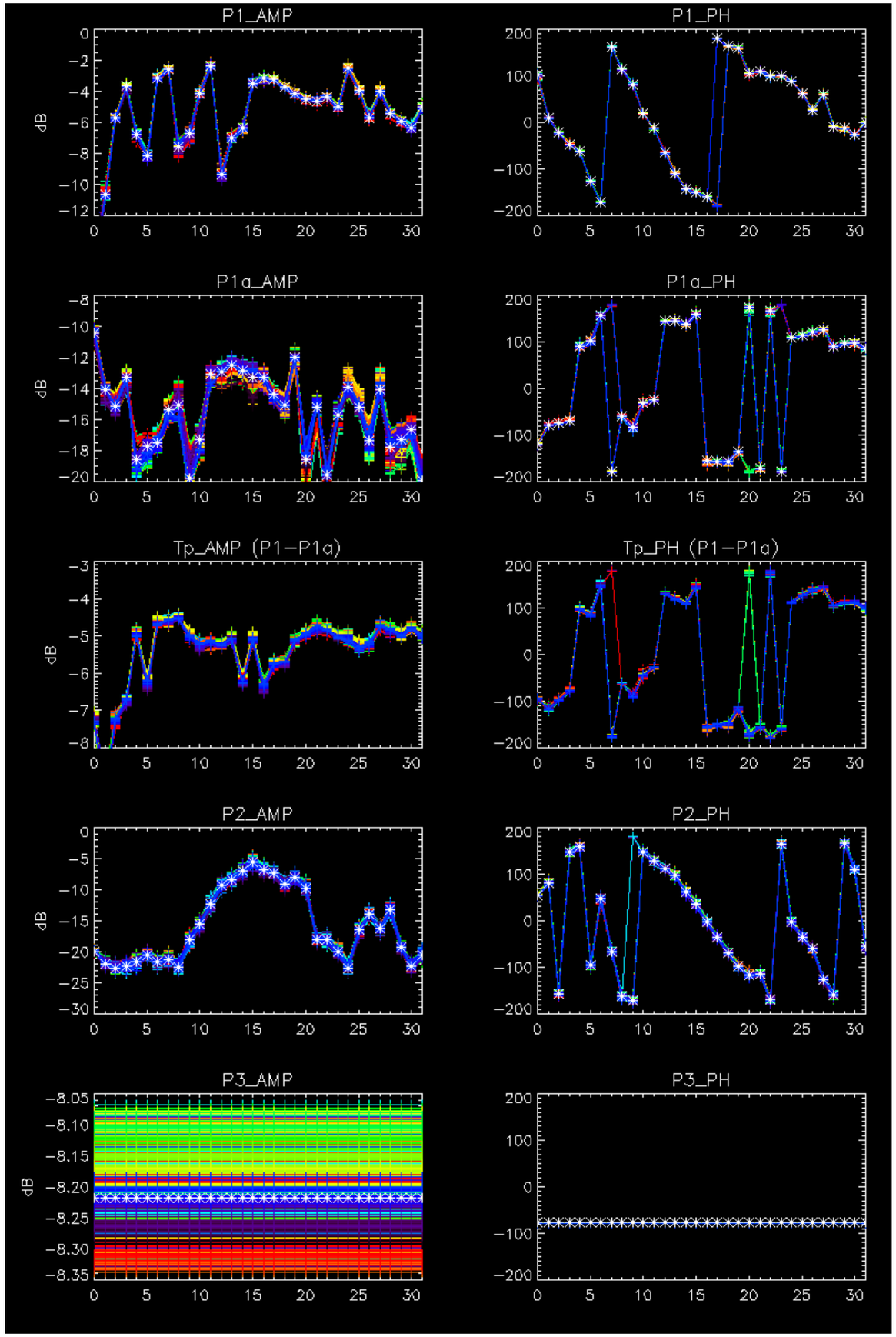

Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
−22
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
09
24−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
09
24−Feb
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
09
24−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
09
24−Feb
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

No anomalies observed on available browse products

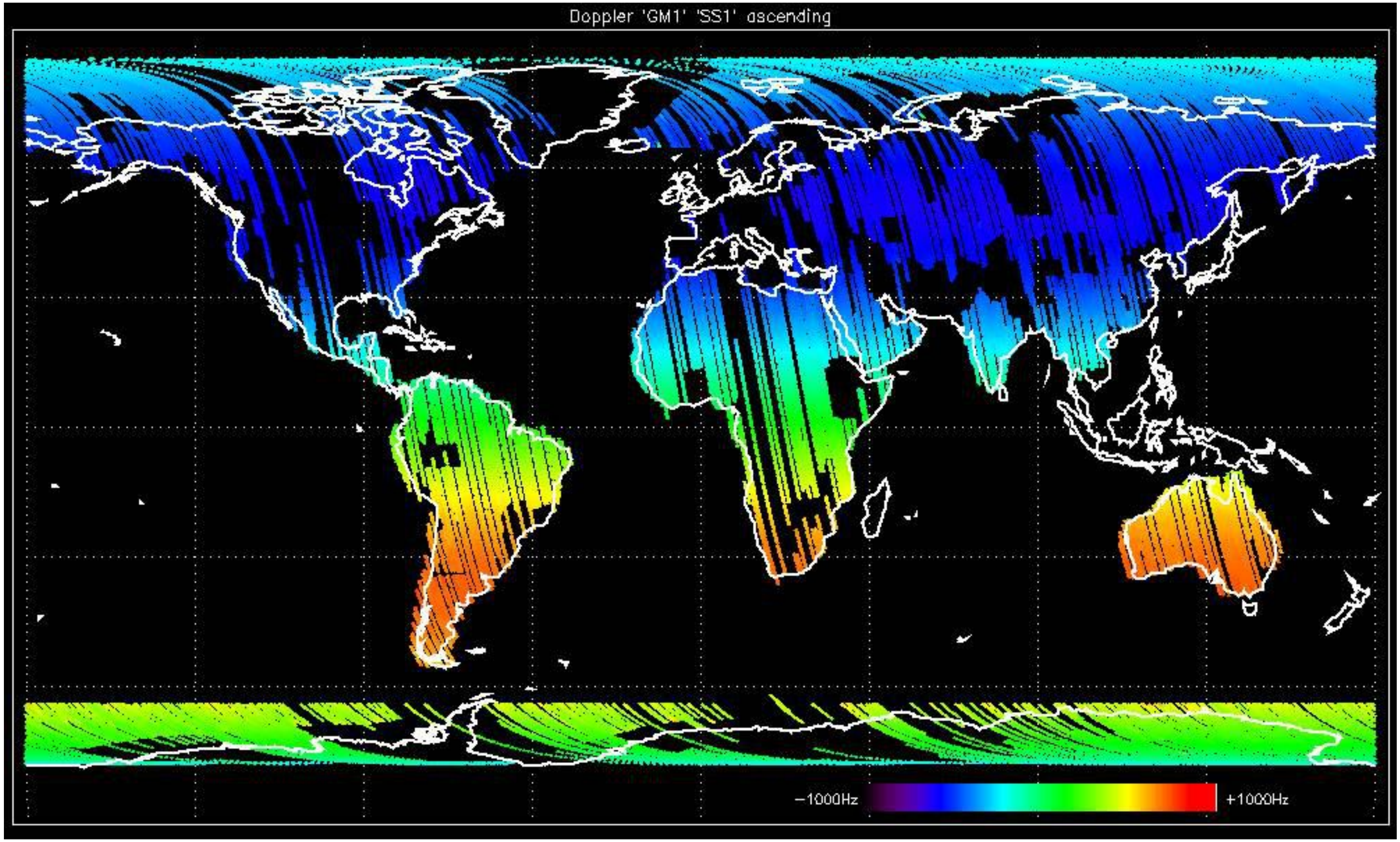
No anomalies observed.

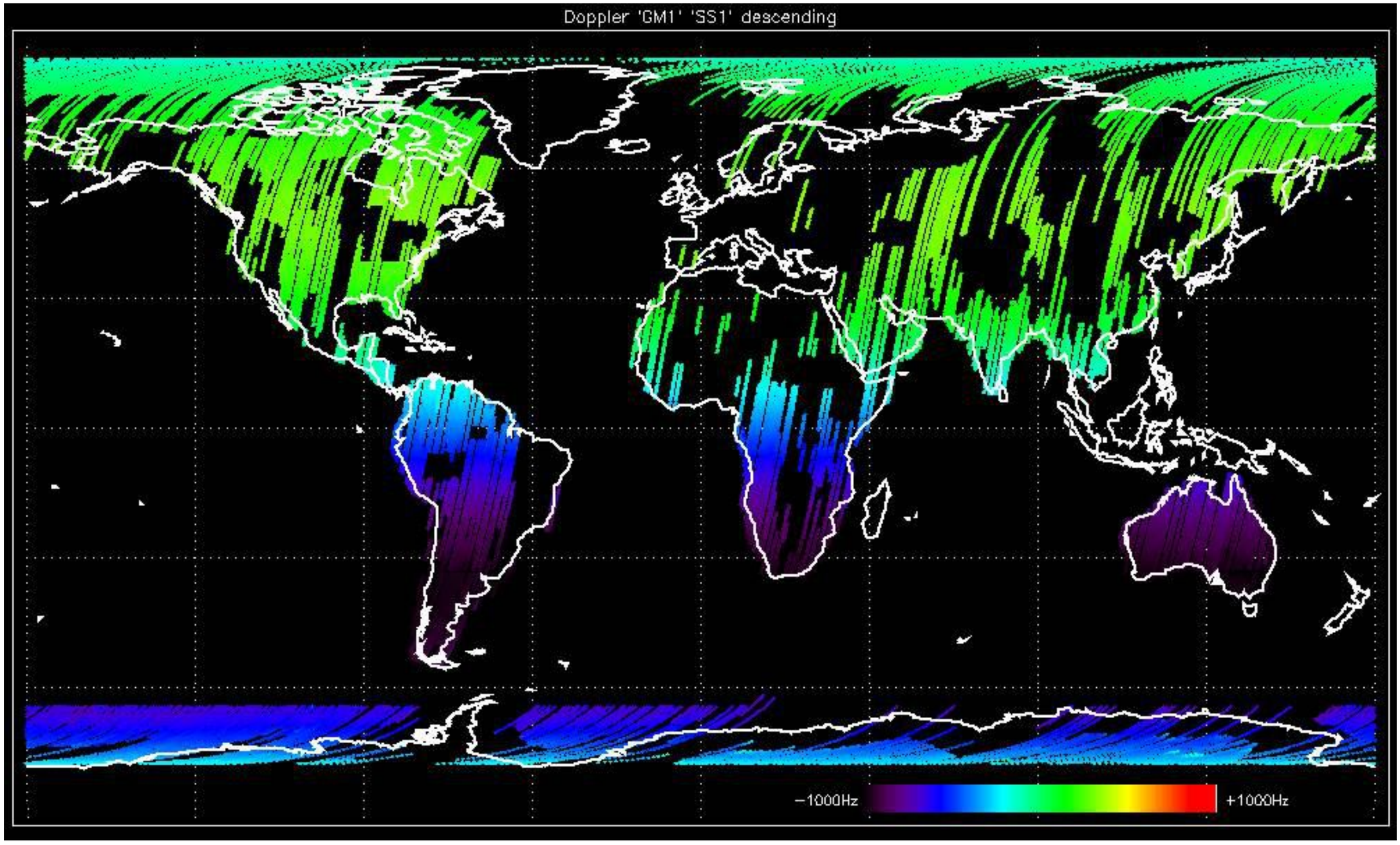

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

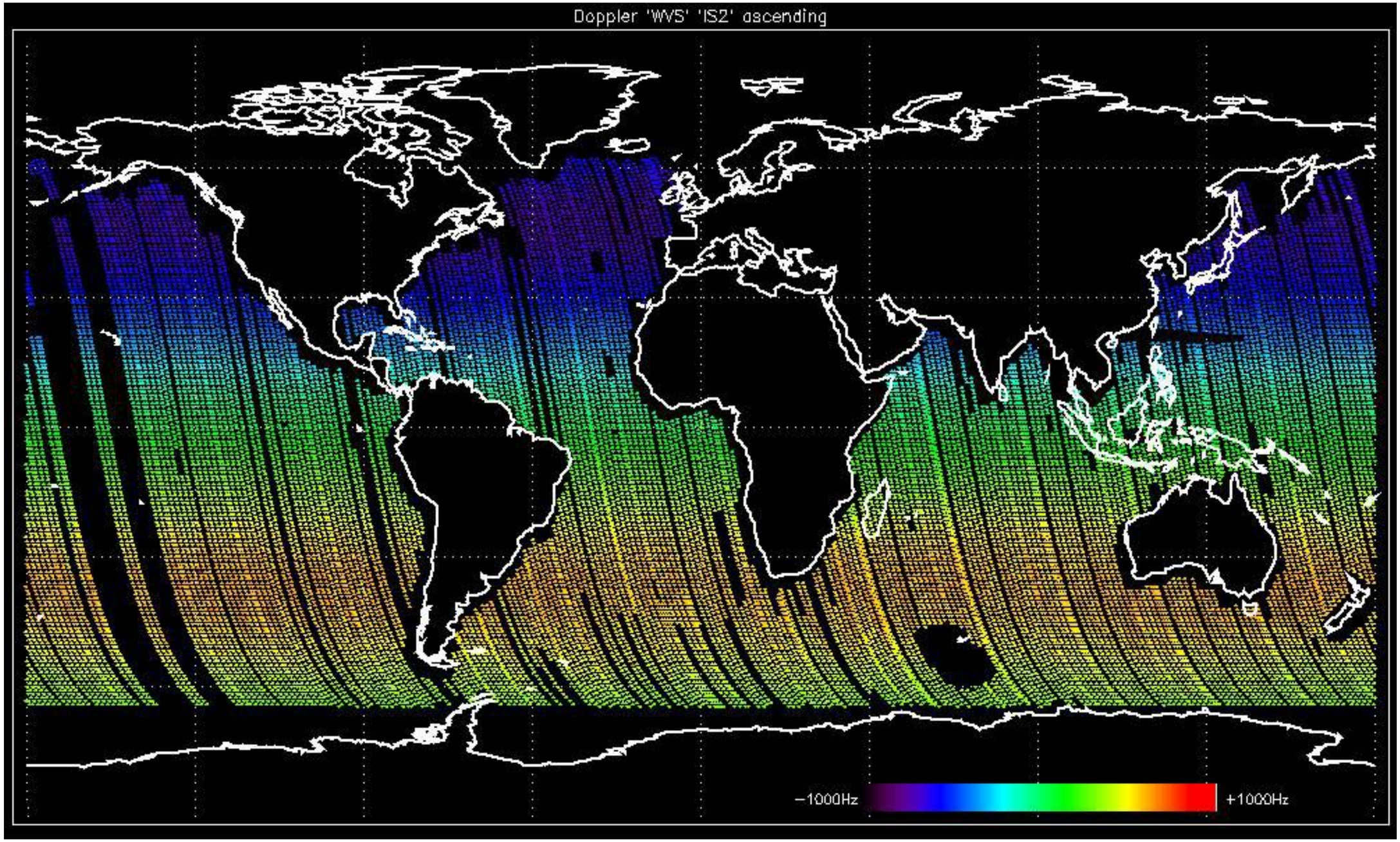

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

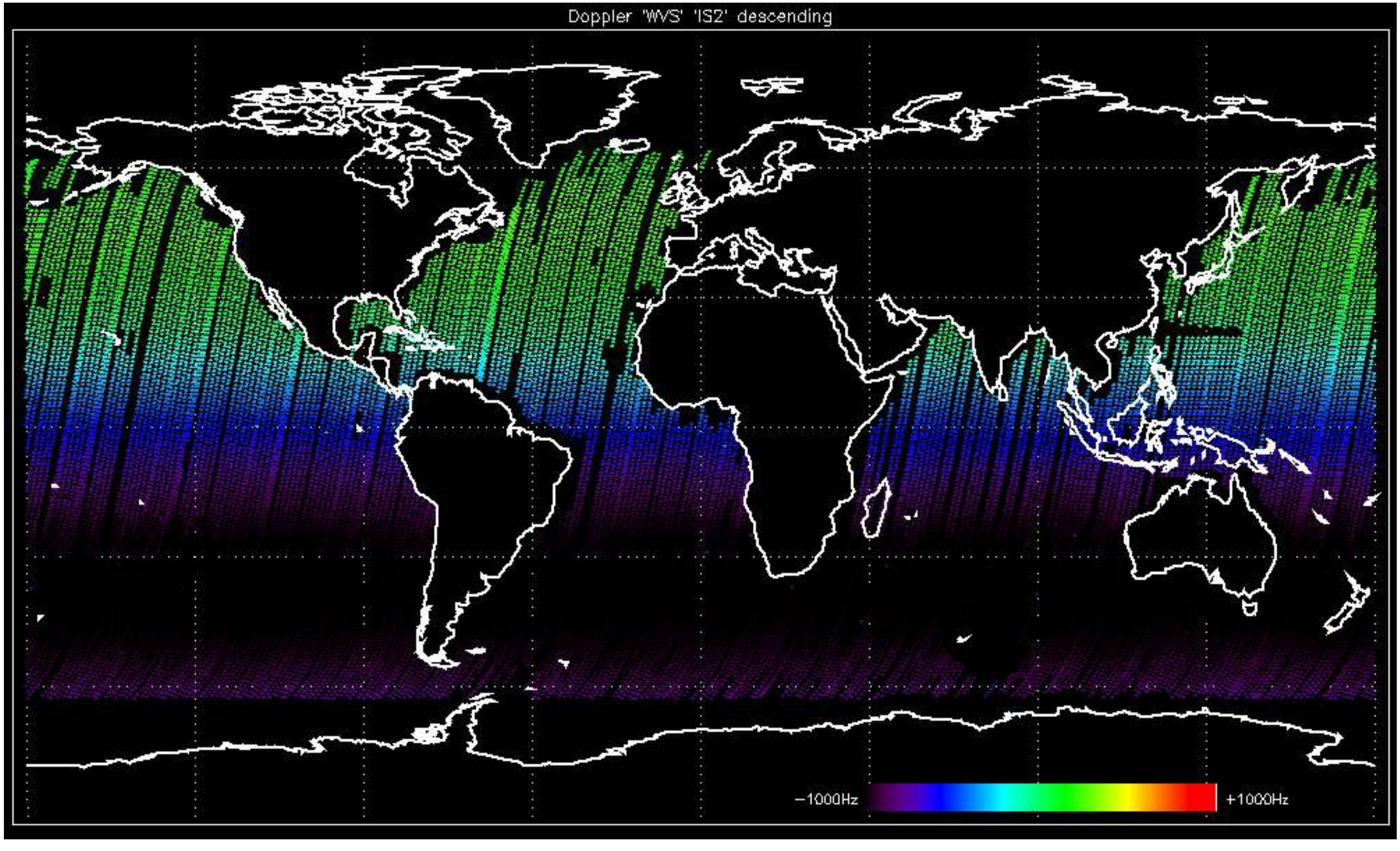
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

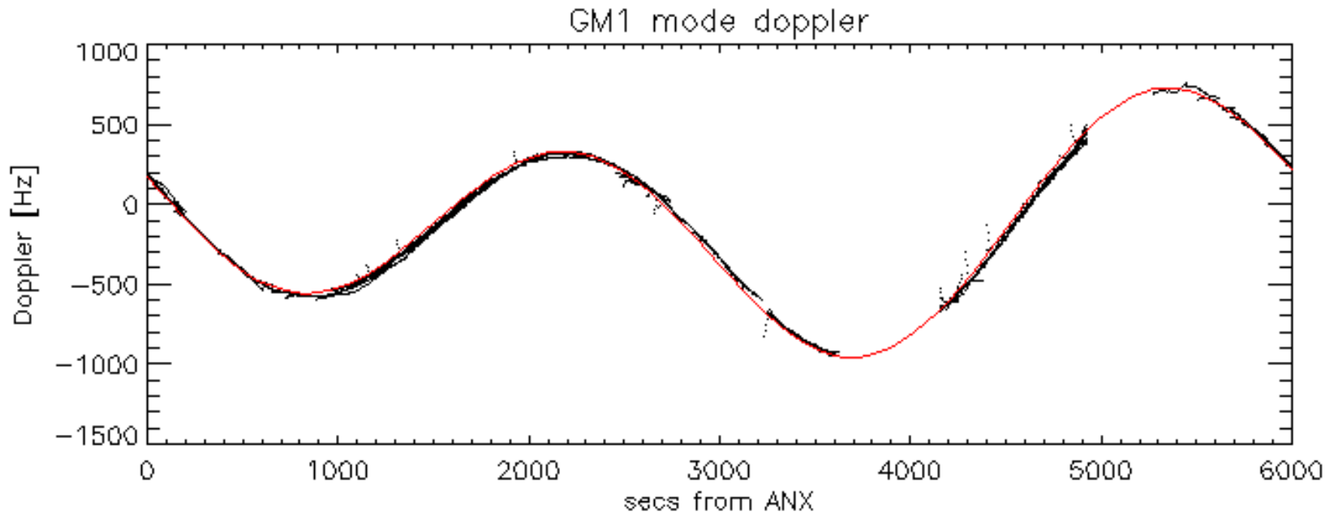
Preliminary report.The data is not yet controled

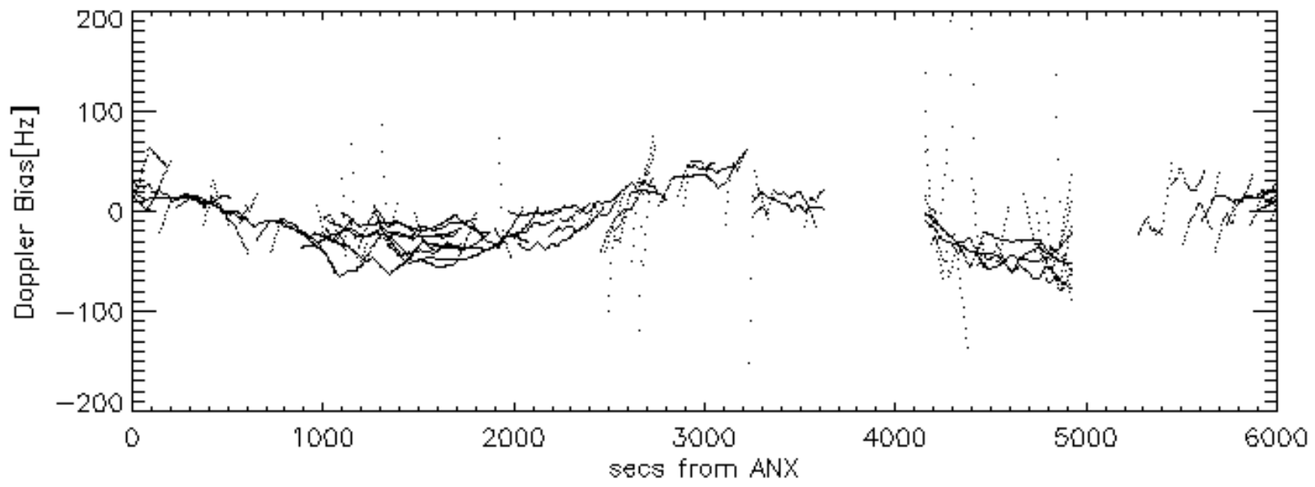

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

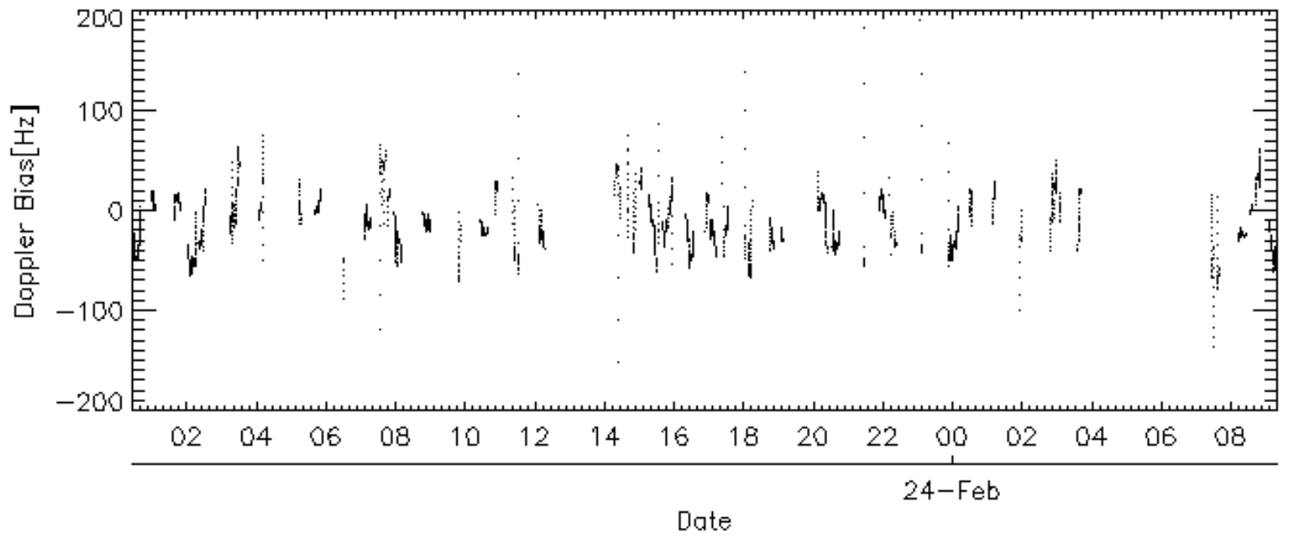

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

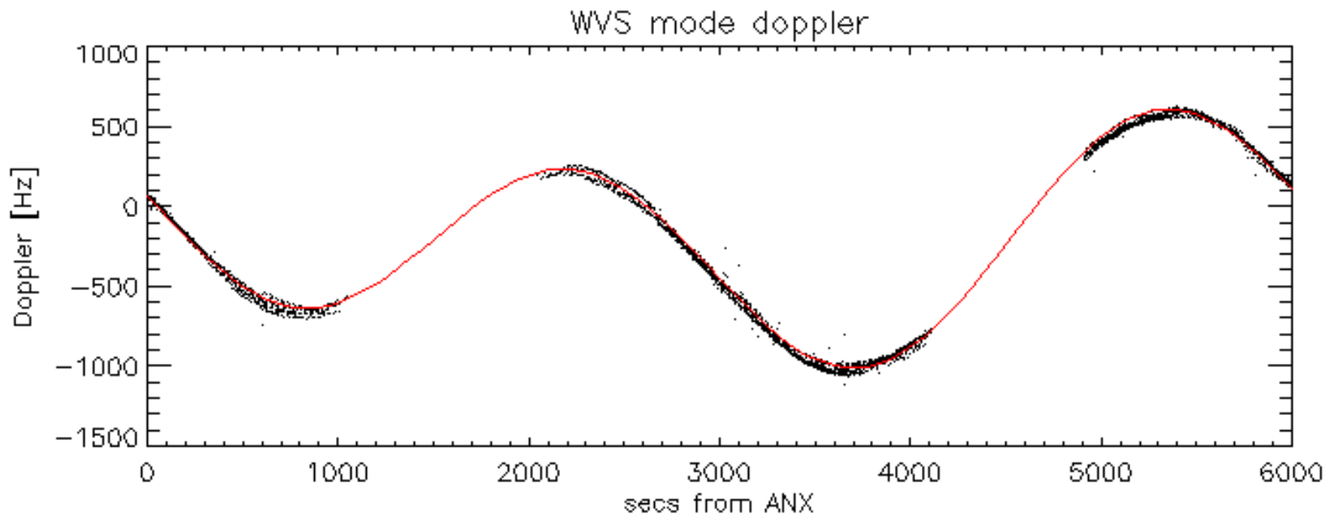

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

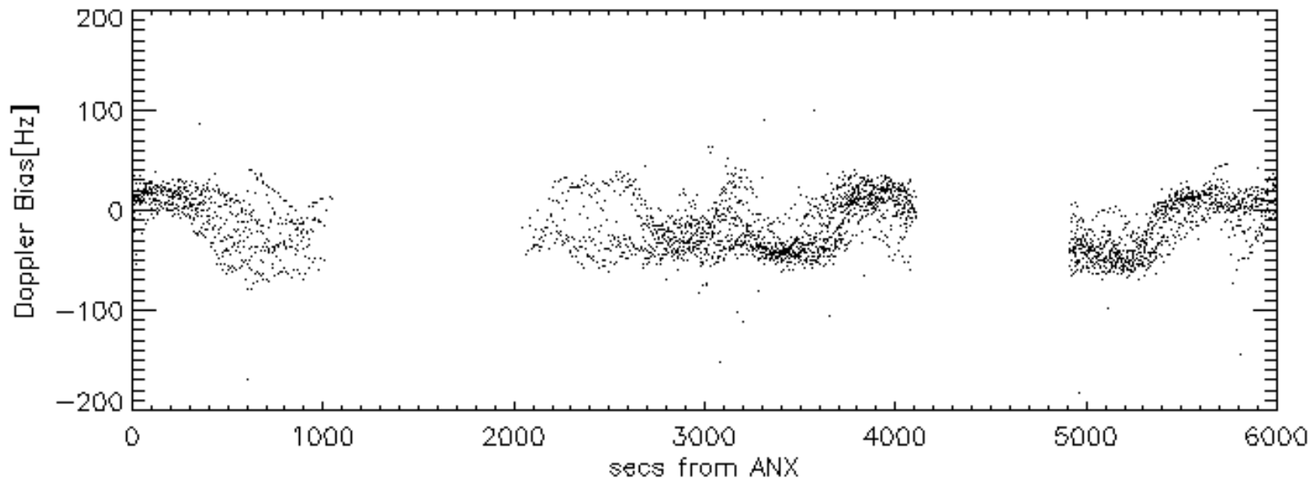

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

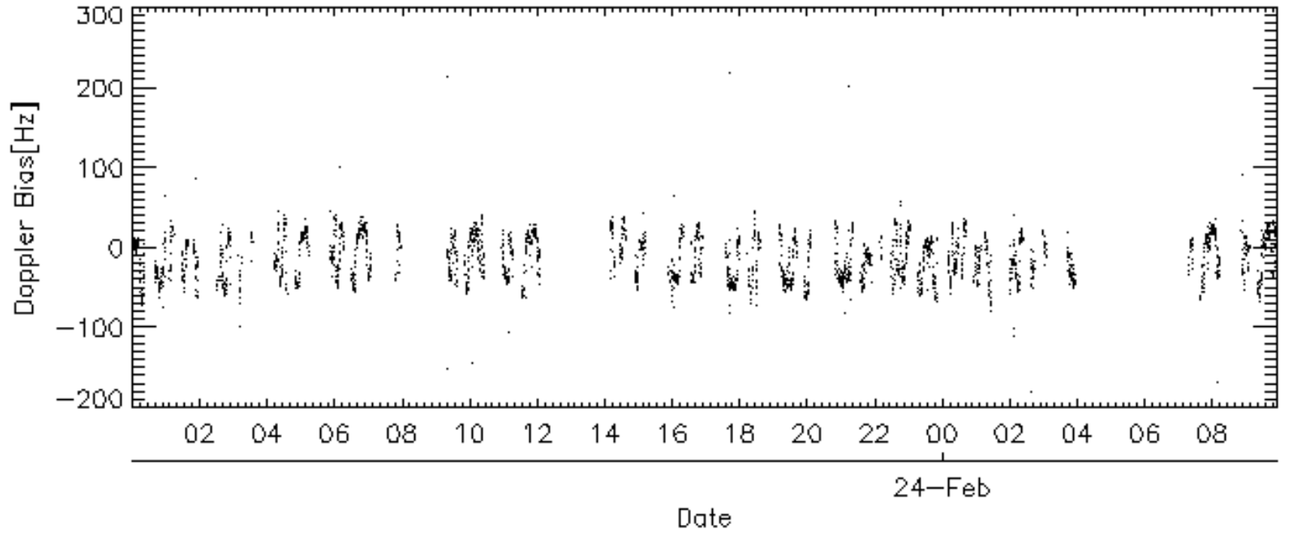

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

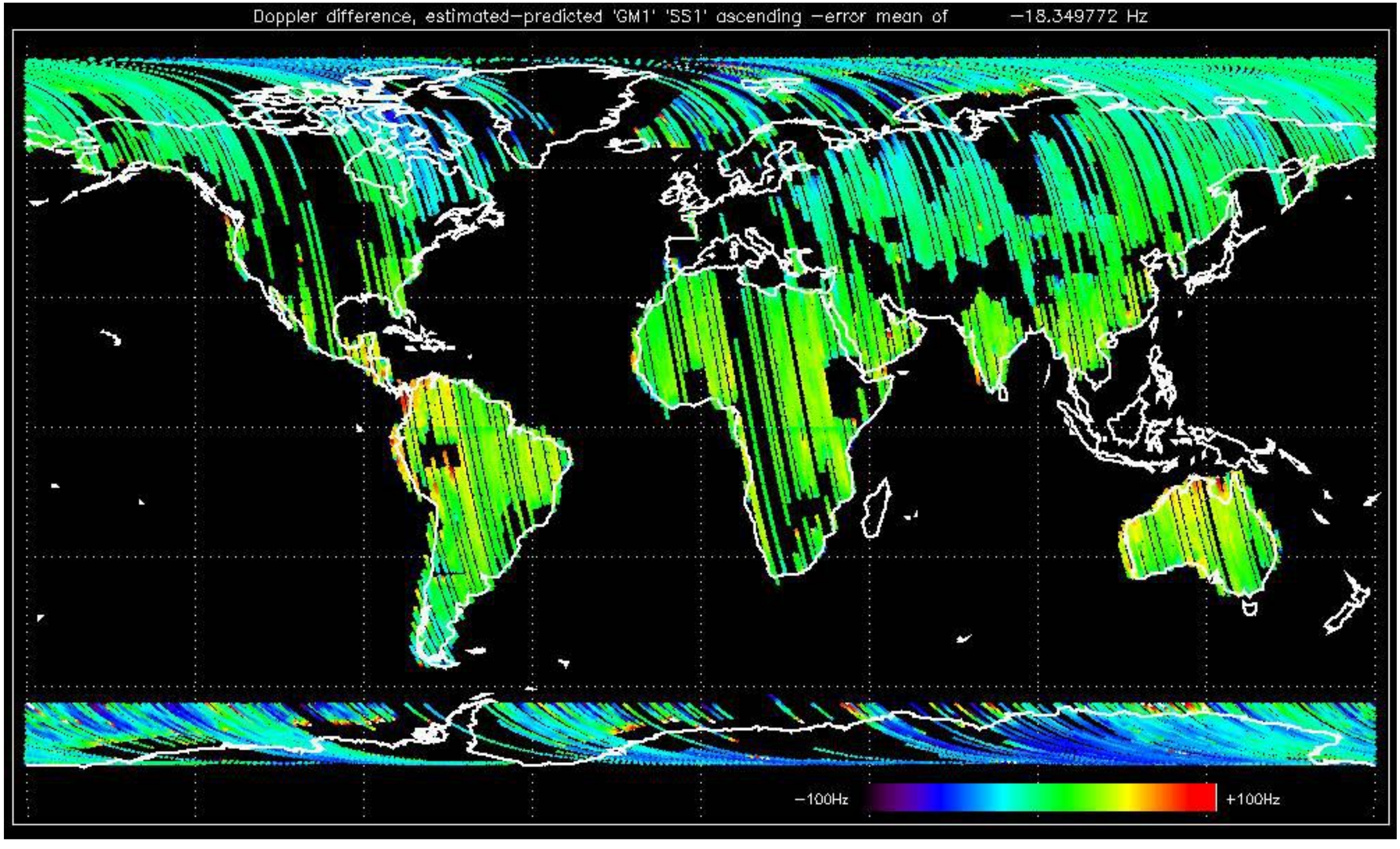

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

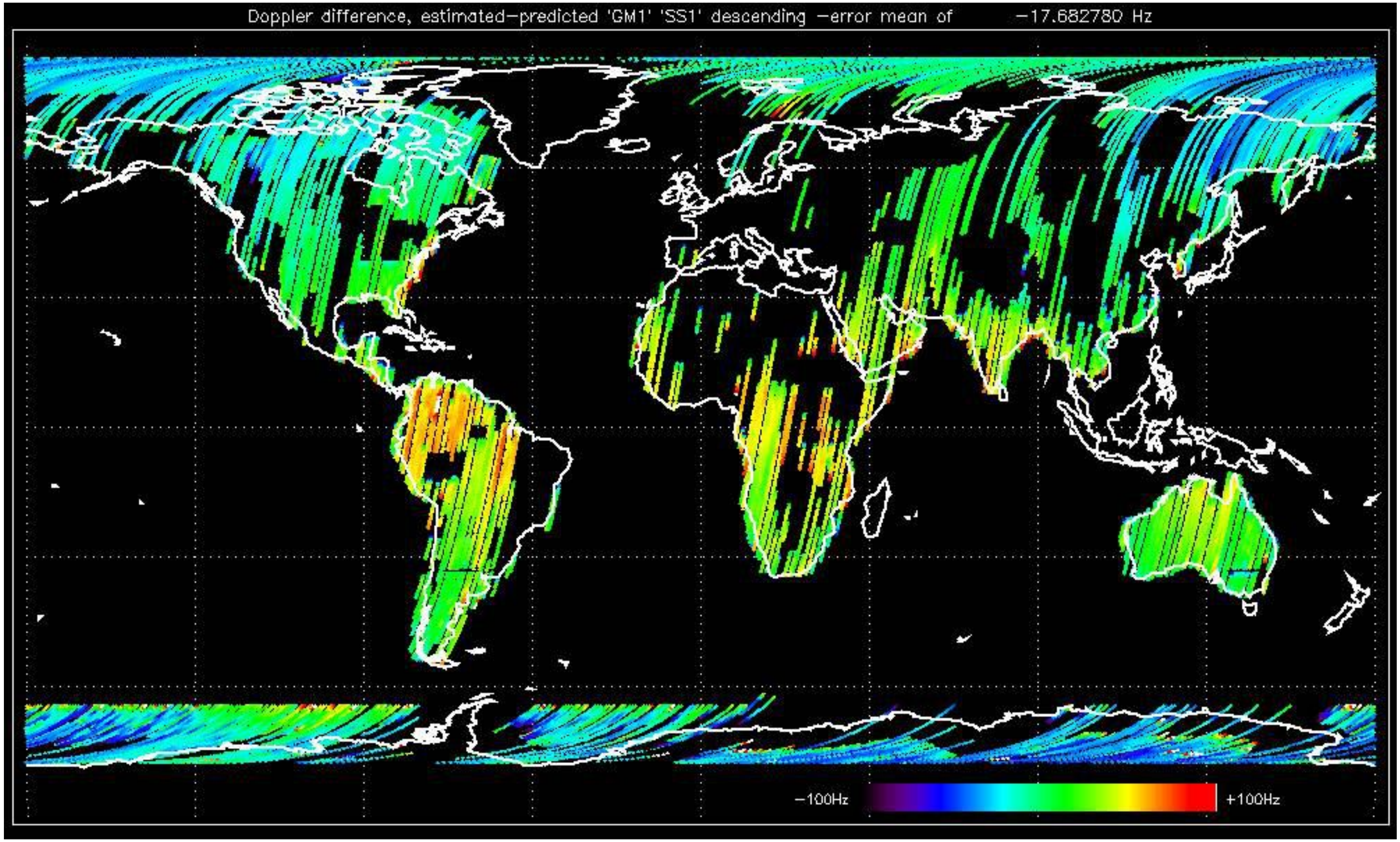

Doppler Bias[Hz]
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
24−Feb
Date

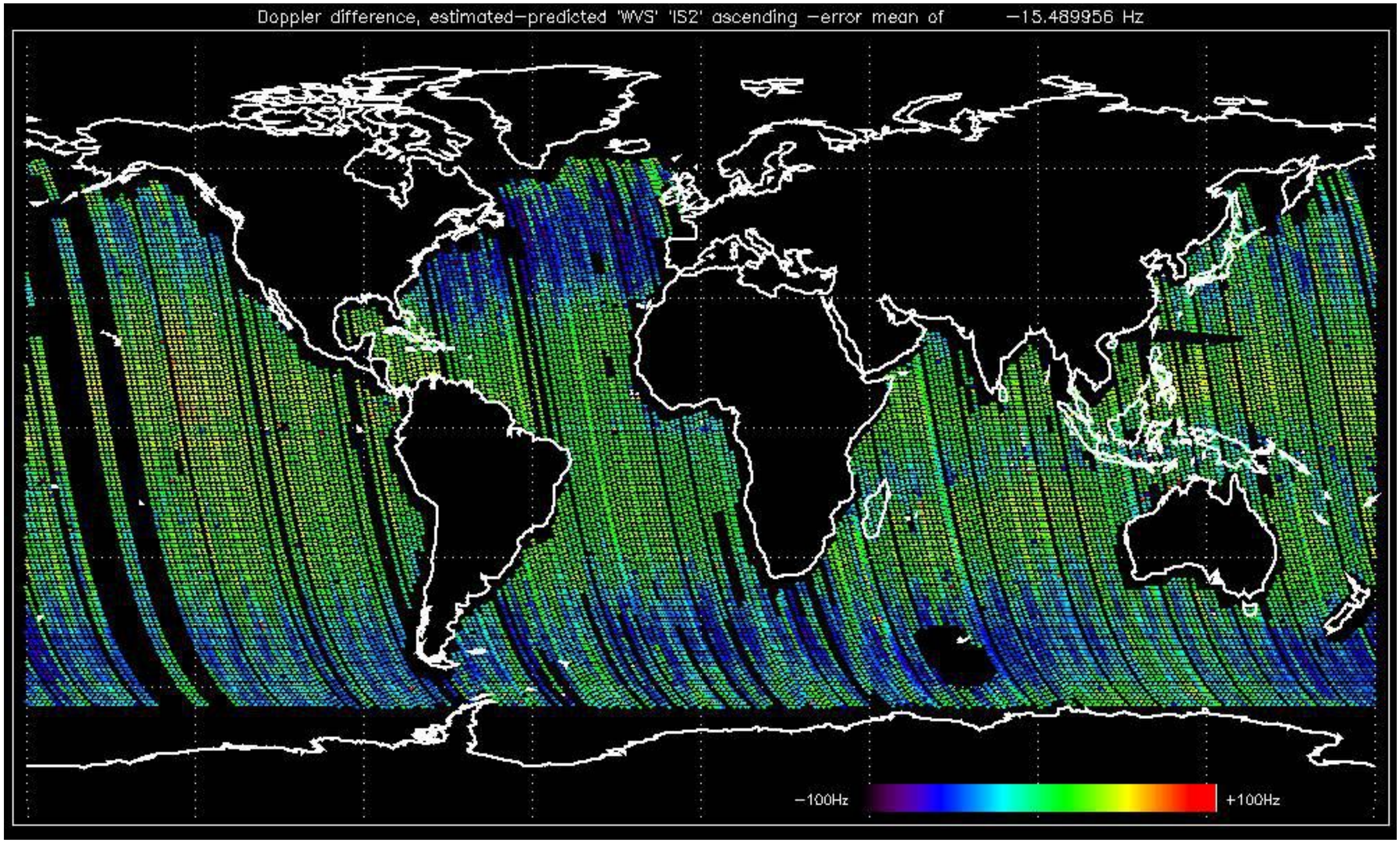

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

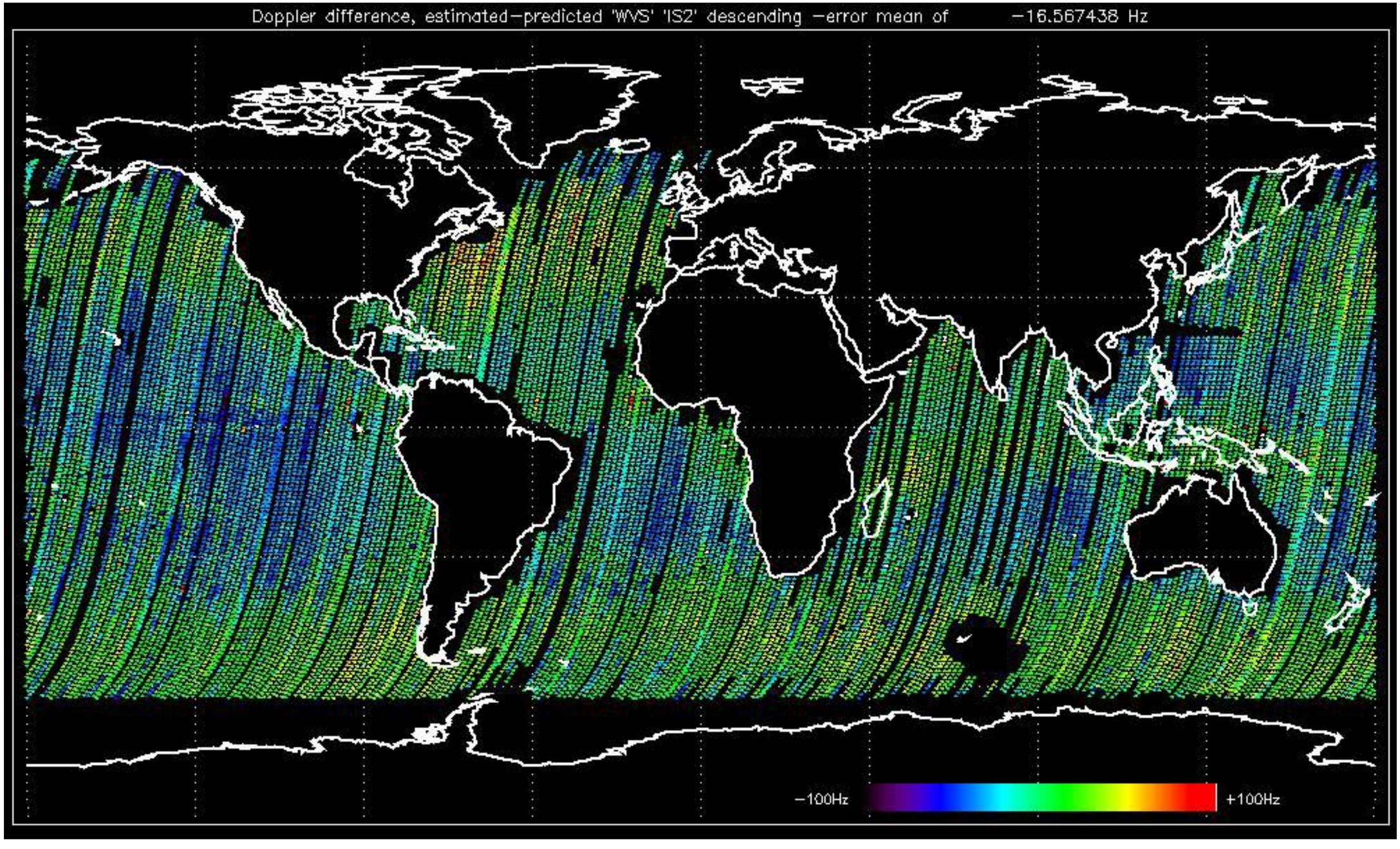

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.349772 Hz
−100Hz
+100Hz

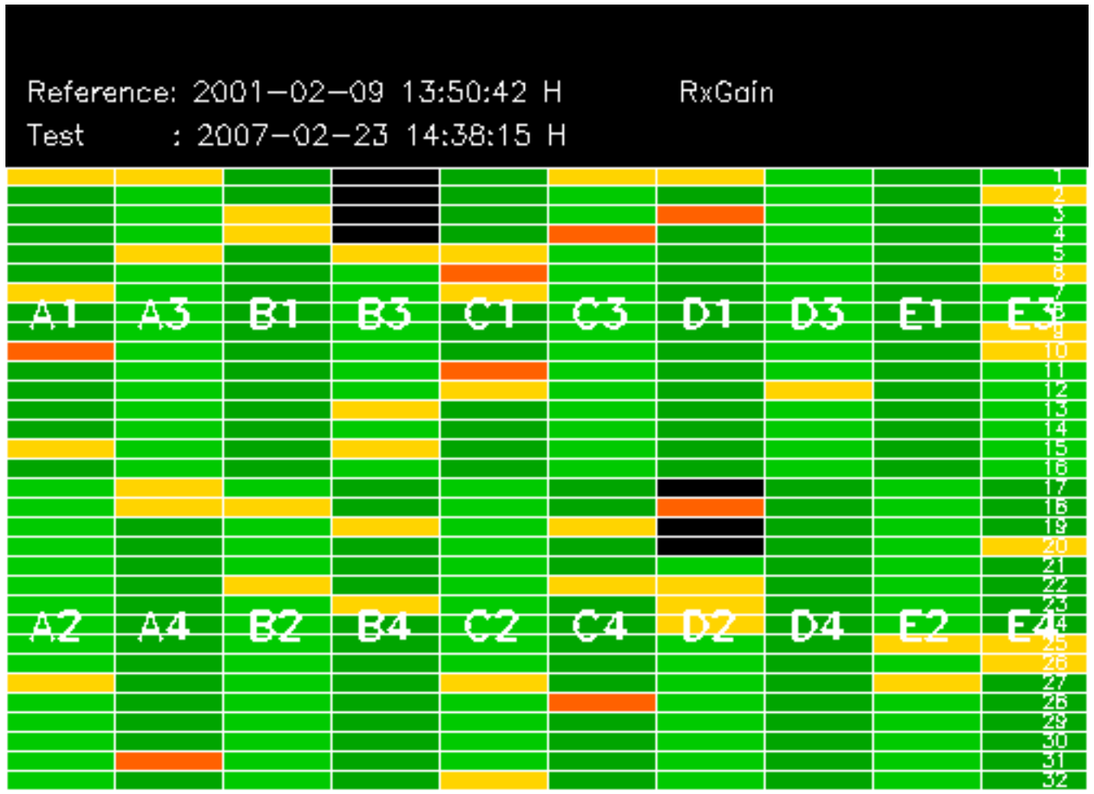

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −17.682780 Hz
−100Hz
+100Hz

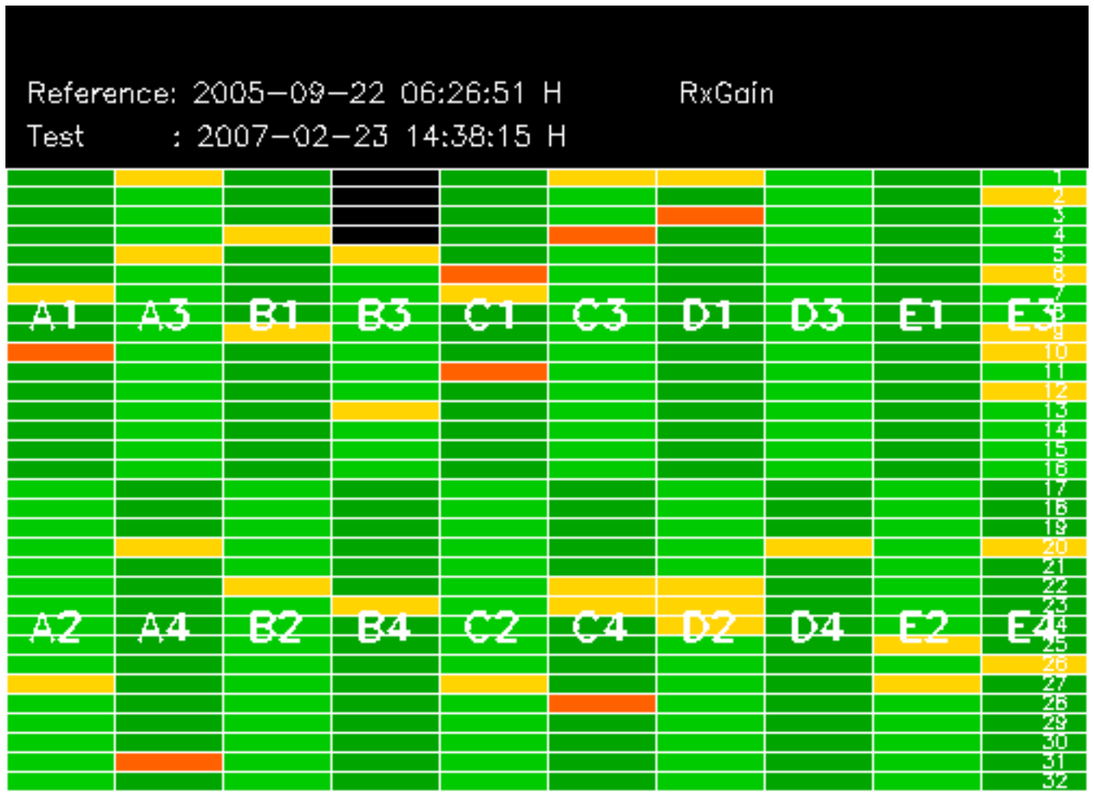

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −15.489956 Hz
−100Hz
+100Hz

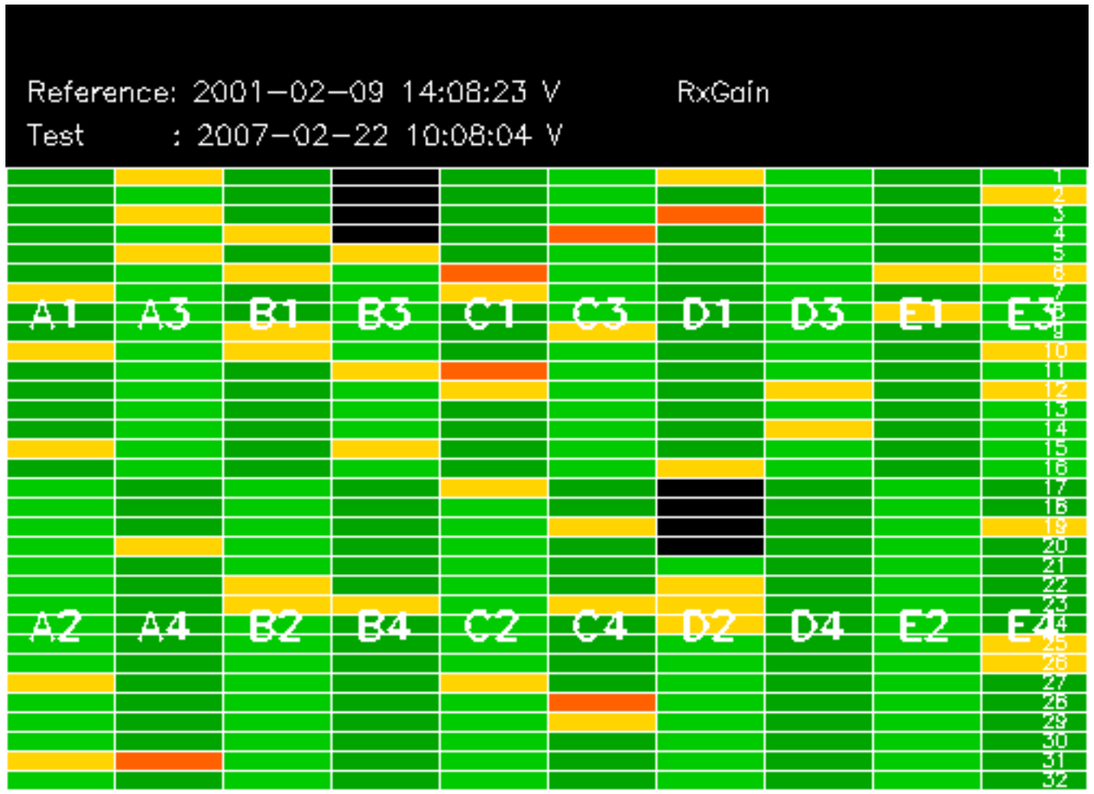

Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −16.567438 Hz
−100Hz
+100Hz

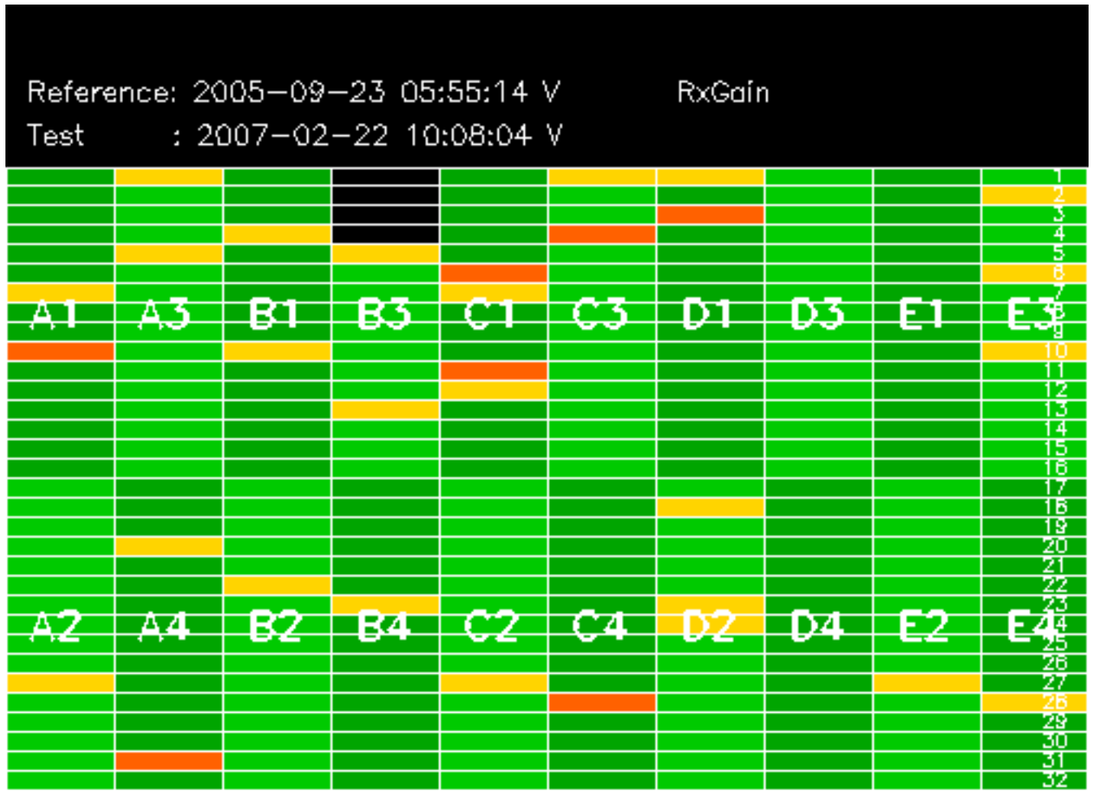
No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2007-02-23 14:38:15 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 : 2007-02-23 14:38:15 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 14:08:23 V
Test : 2007-02-22 10:08:04 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 : 2007-02-22 10:08:04 V
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
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8
9
10
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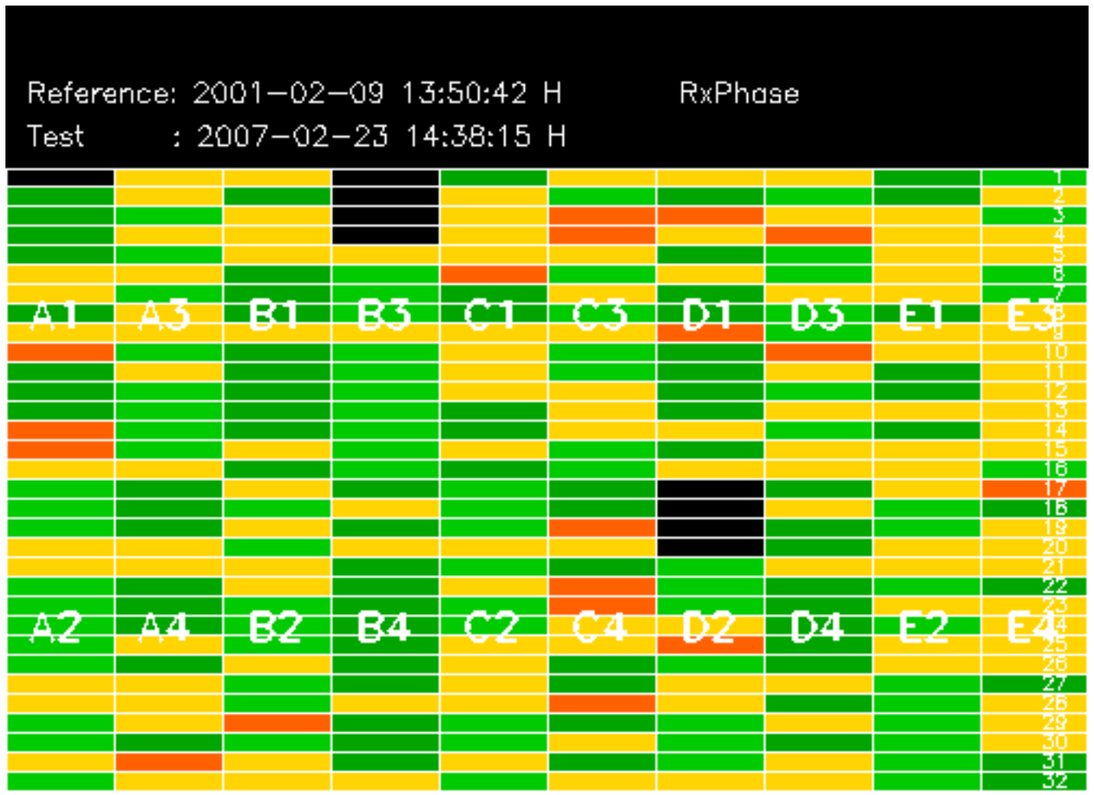
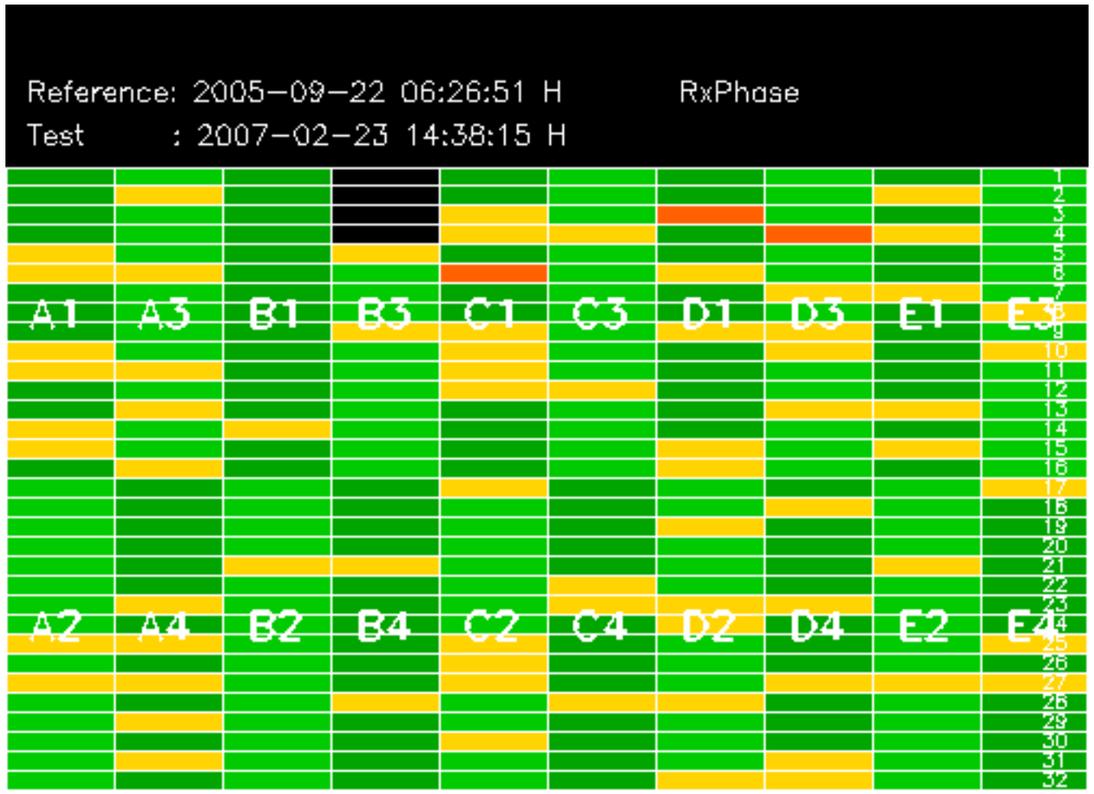

Reference: 2001-02-09 13:50:42 H
Test : 2007-02-23 14:38:15 H
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-02-23 14:38:15 H
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
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8
9
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14
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16
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19
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29
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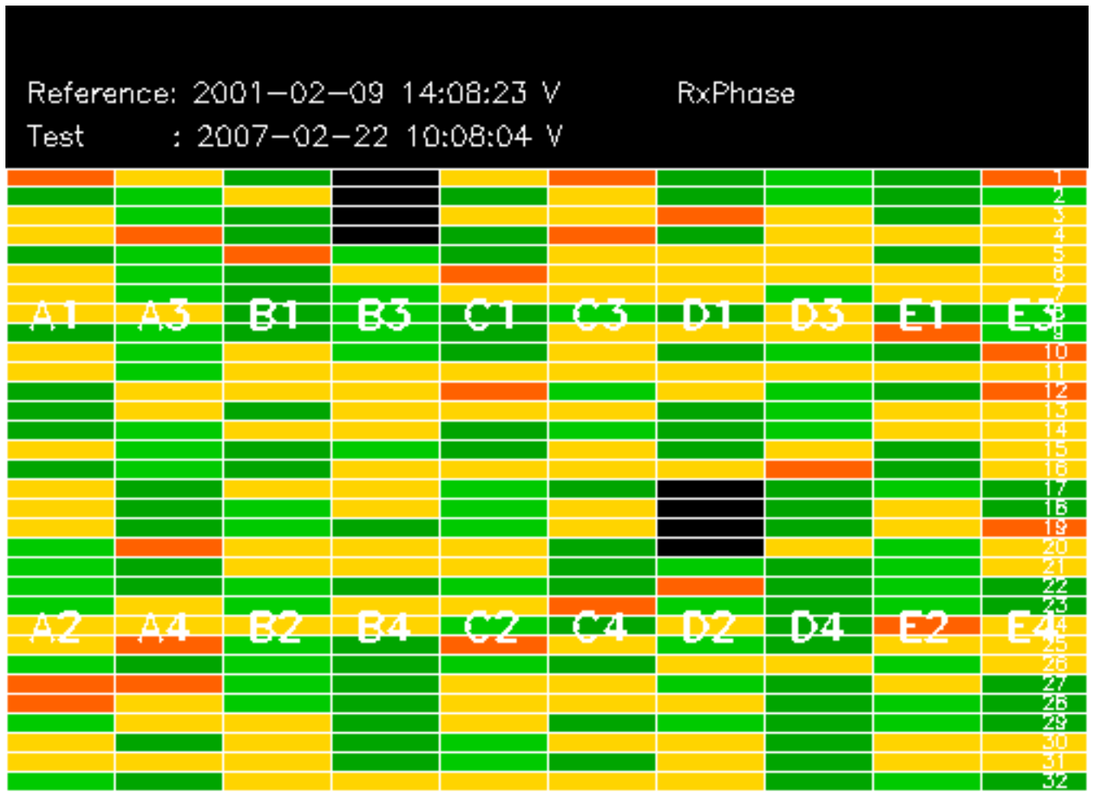
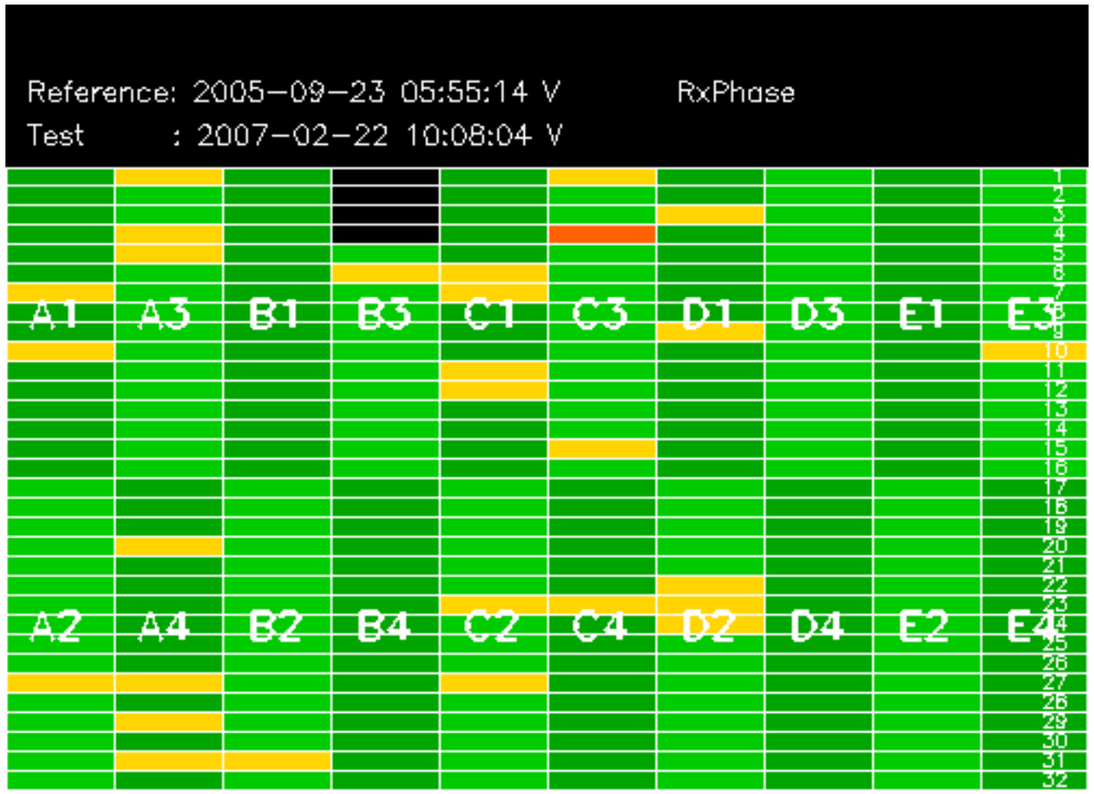
31
32


Reference: 2001-02-09 14:08:23 V
Test : 2007-02-22 10:08:04 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
Test : 2007-02-22 10:08:04 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
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8
9
10
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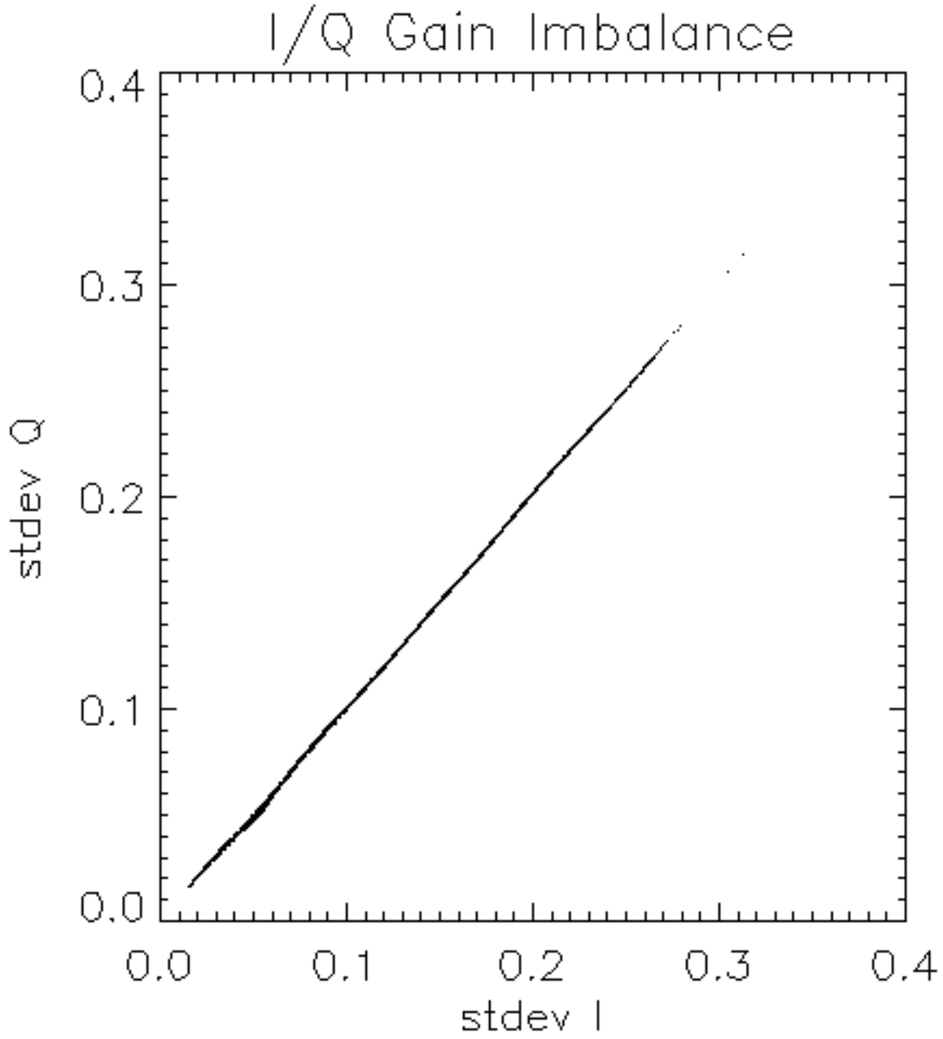
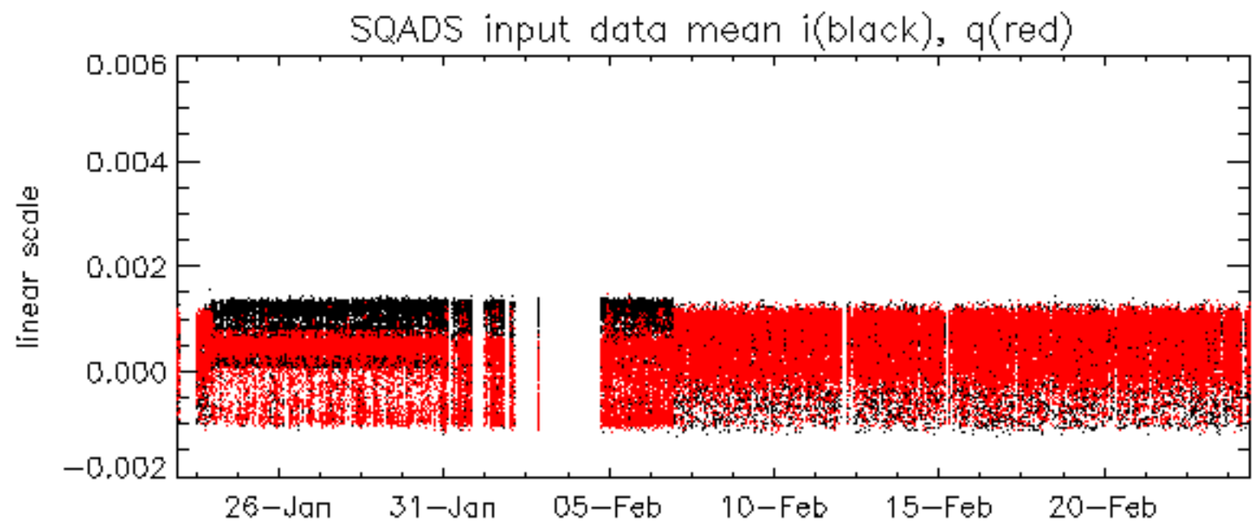
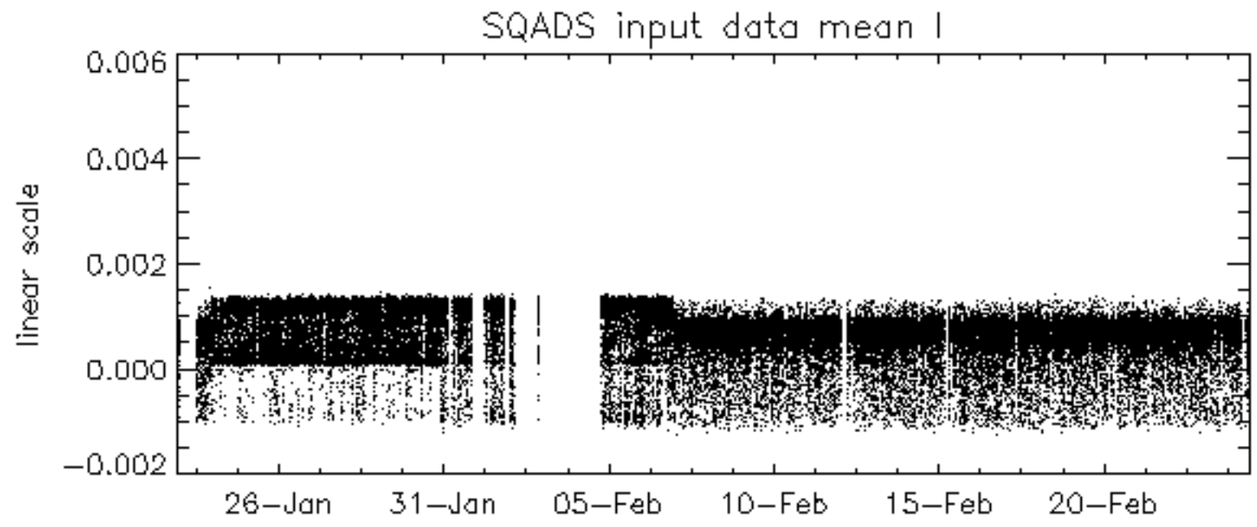
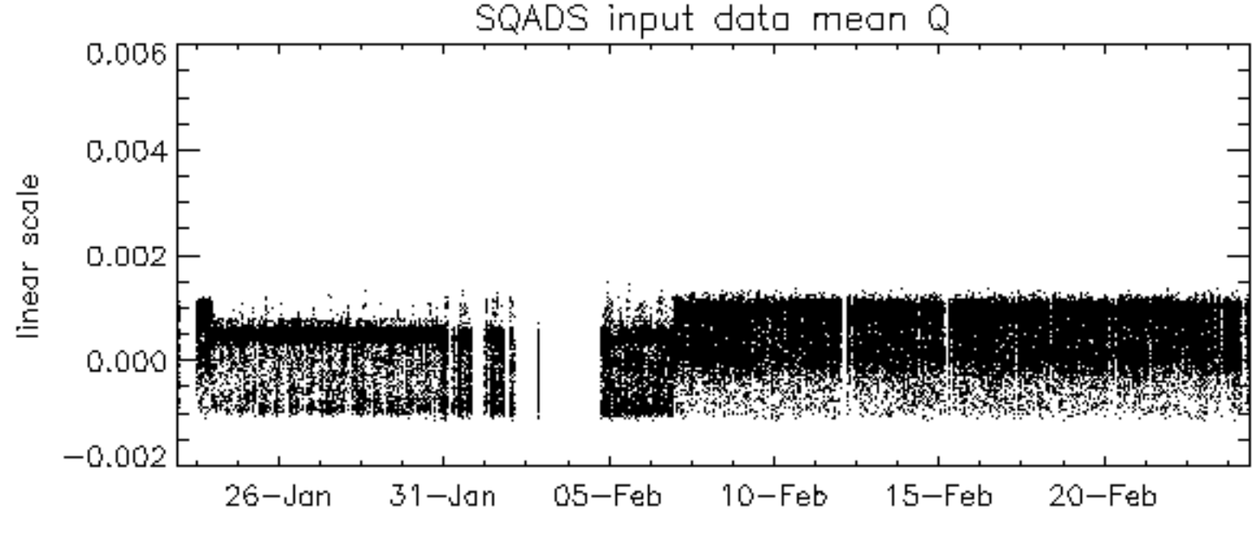
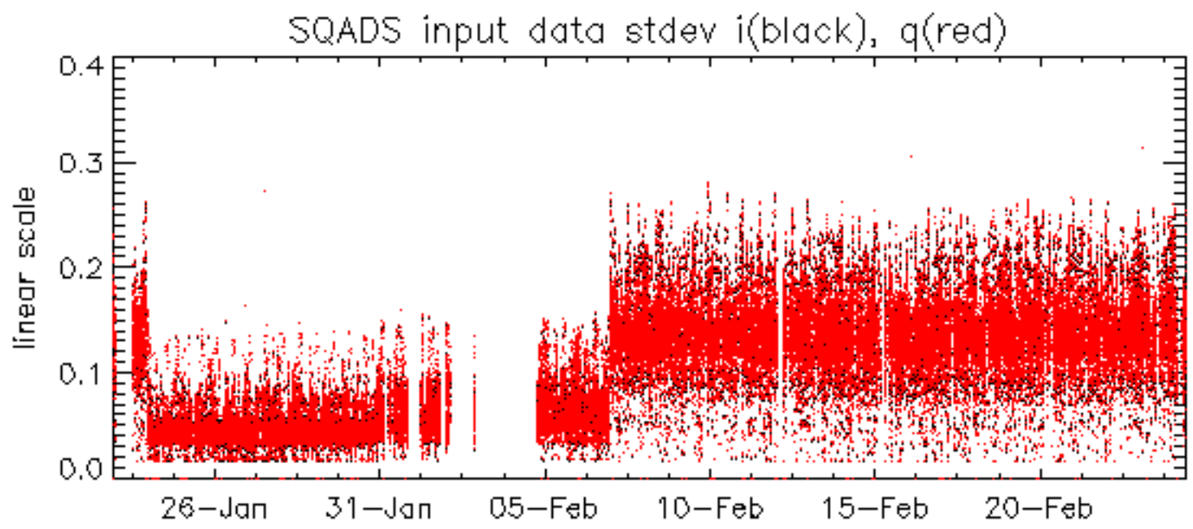
32

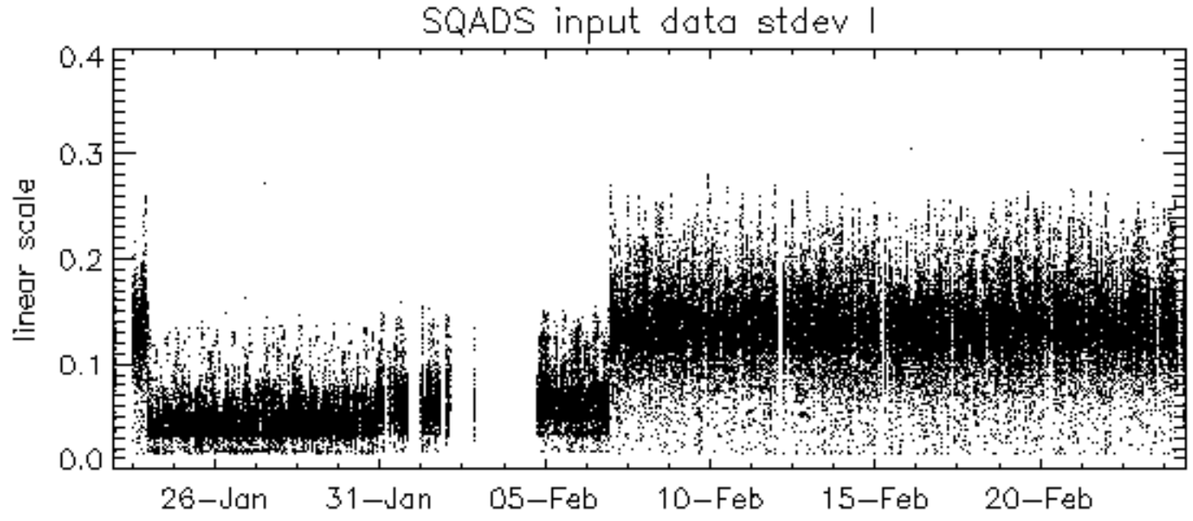

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

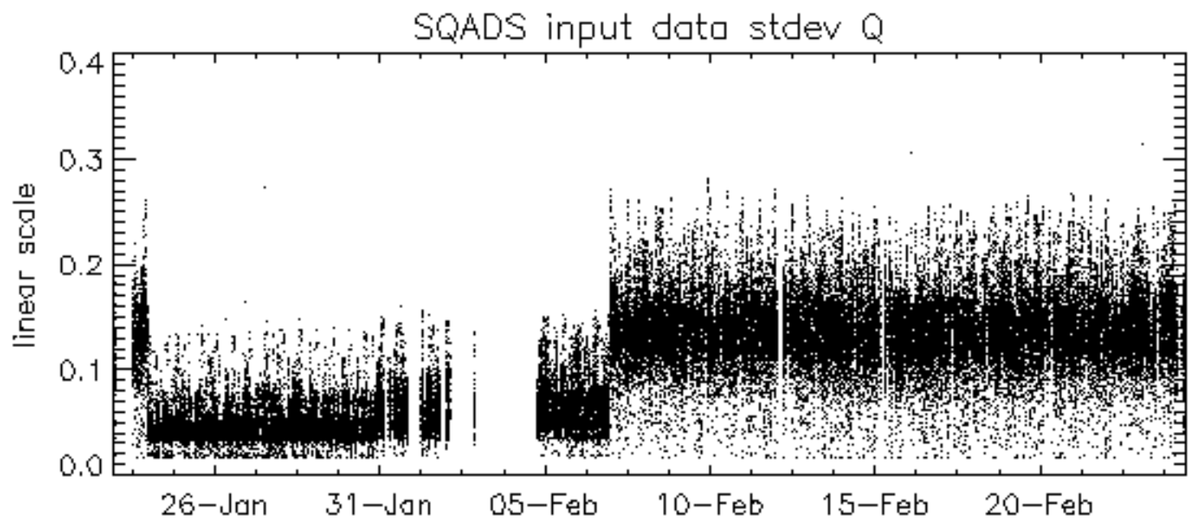

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb

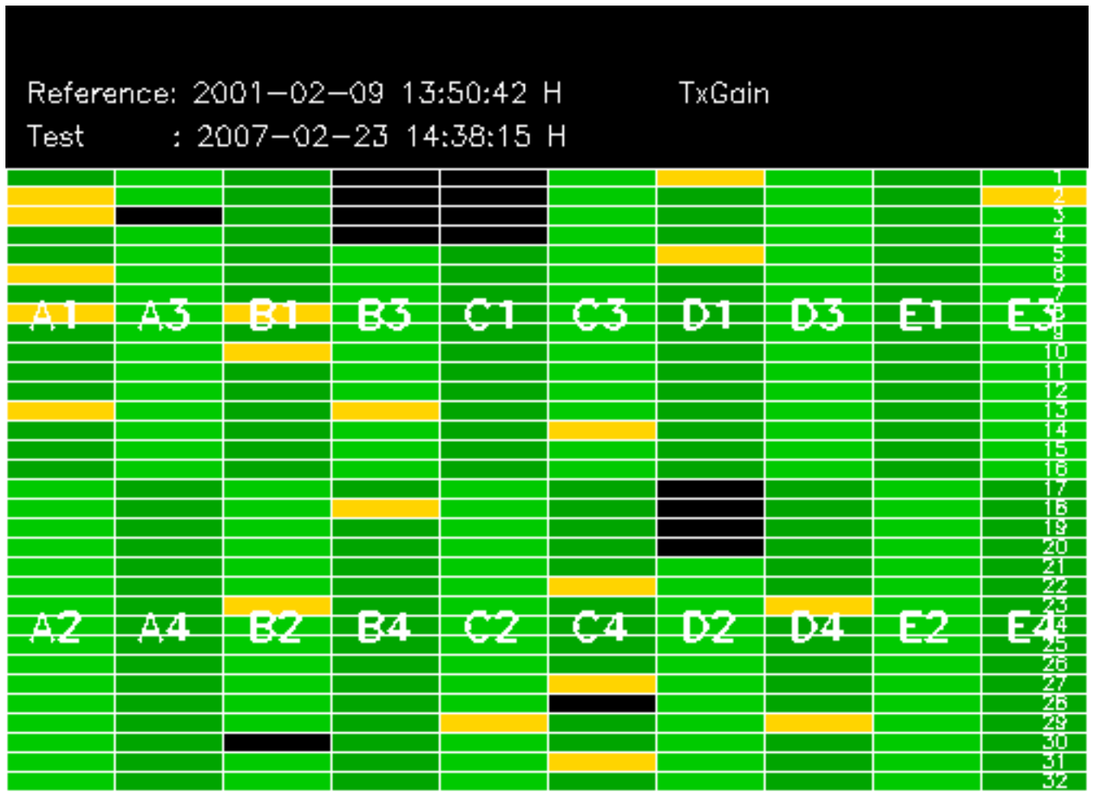

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb

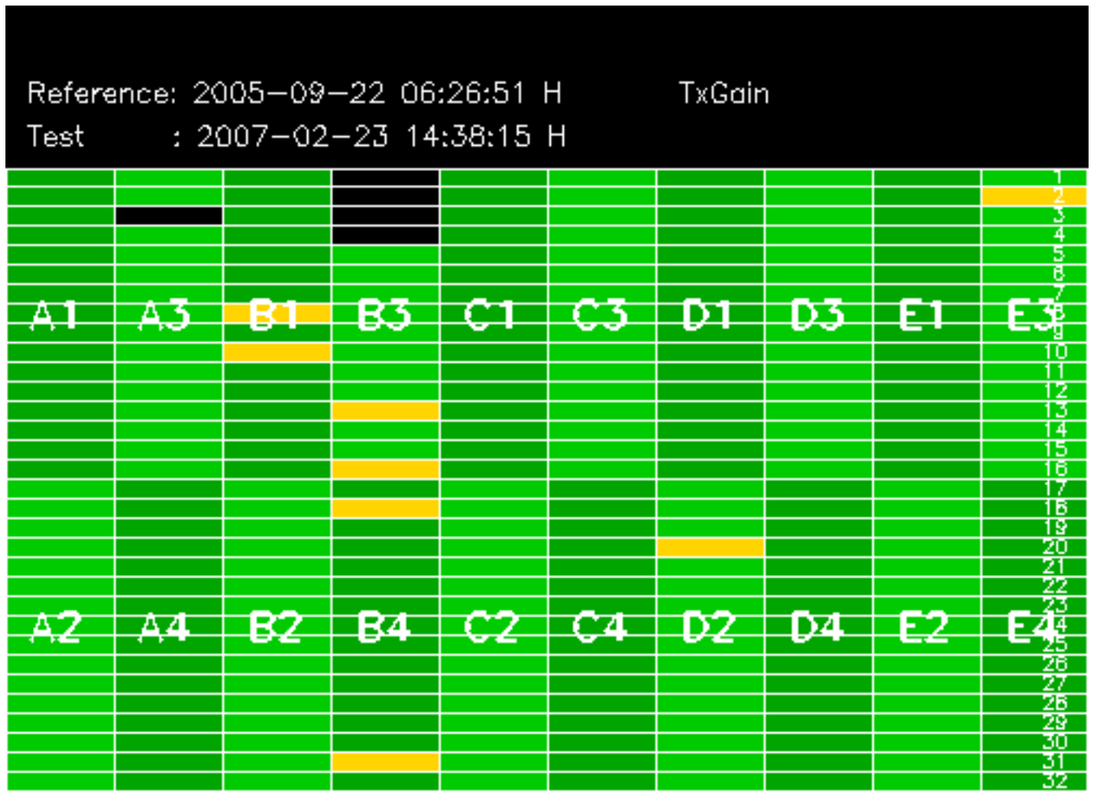

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
26–Jan
31–Jan
05–Feb
10–Feb
15–Feb
20–Feb


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
26–Jan
31–Jan
05–Feb
10–Feb
15–Feb
20–Feb


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
26–Jan
31–Jan
05–Feb
10–Feb
15–Feb
20–Feb


Reference: 2001-02-09 13:50:42 H
Test : 2007-02-23 14:38:15 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 : 2007-02-23 14:38:15 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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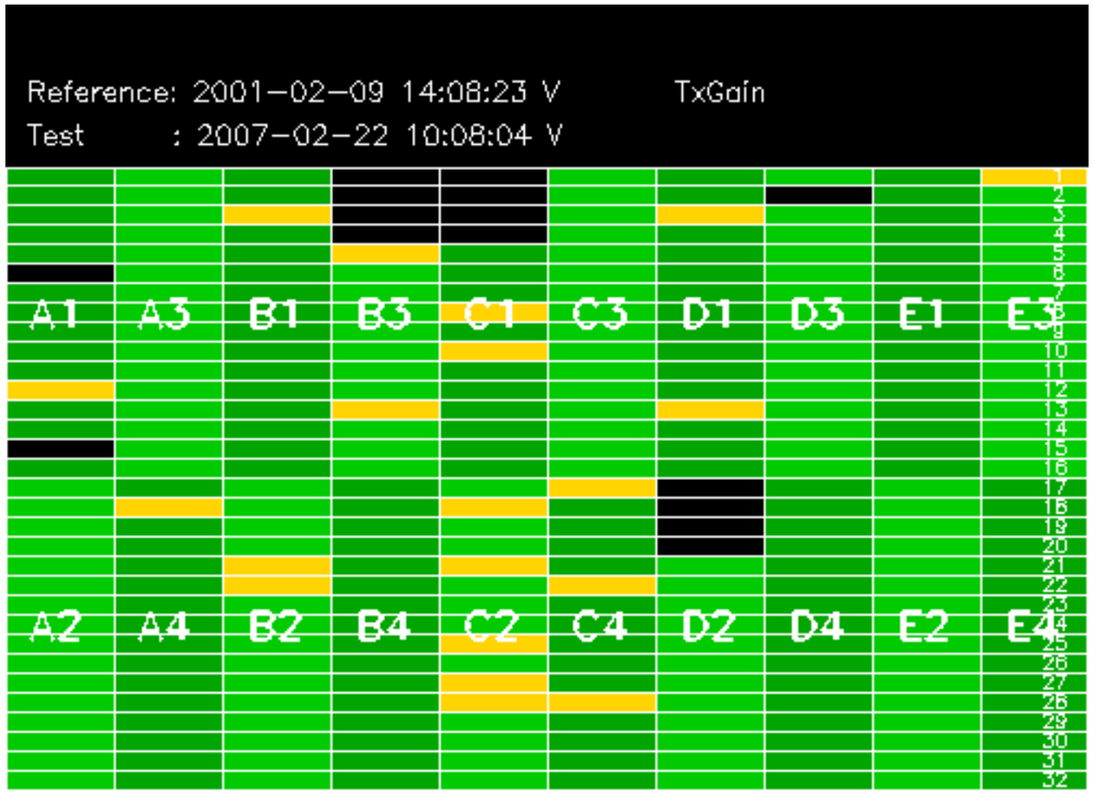
Reference: 2001-02-09 14:08:23 V
Test : 2007-02-22 10:08:04 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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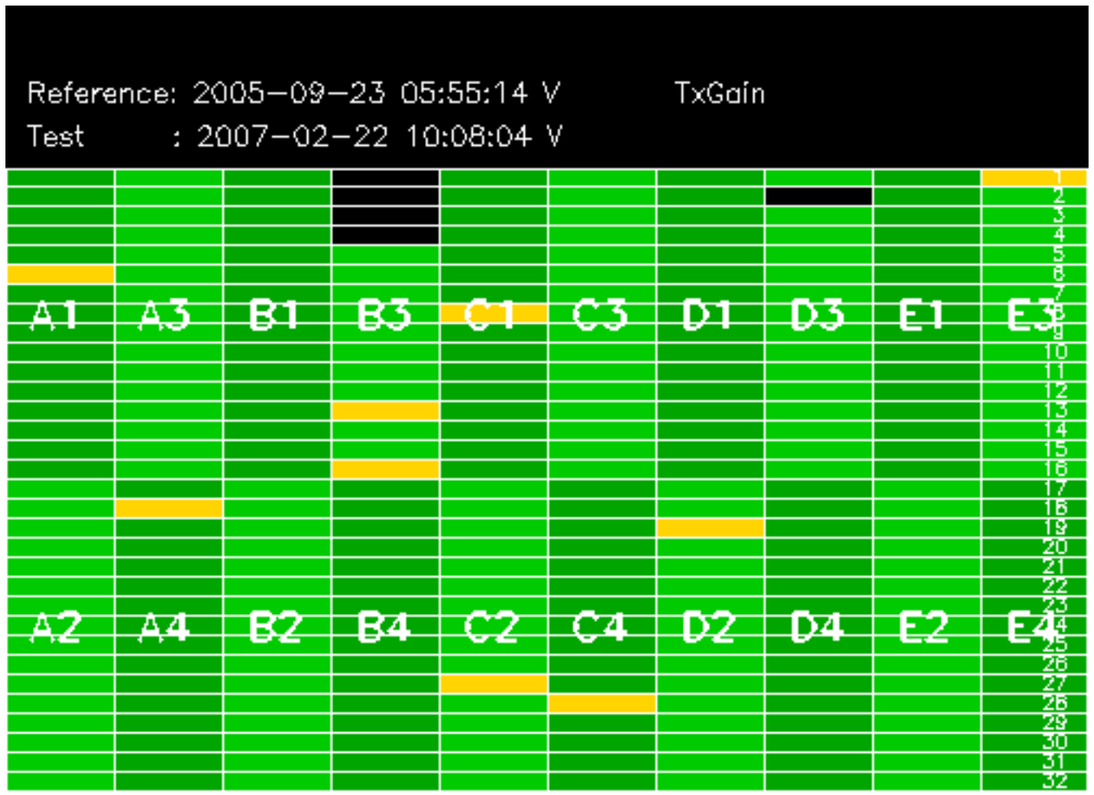
Reference: 2005-09-23 05:55:14 V
Test : 2007-02-22 10:08:04 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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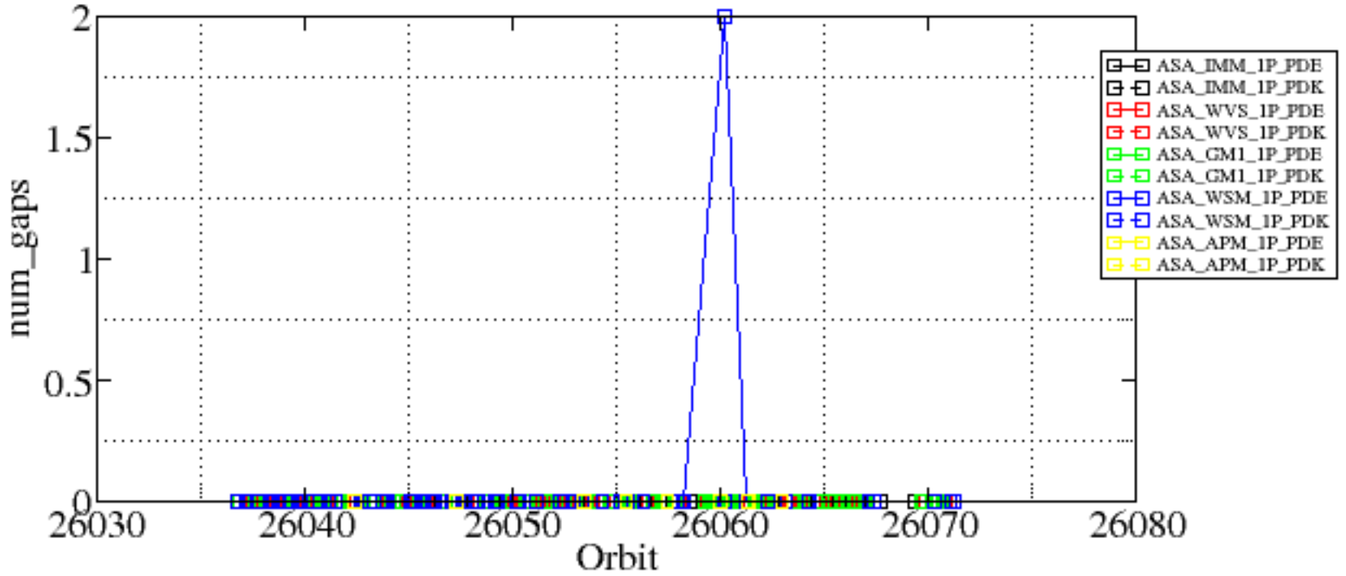
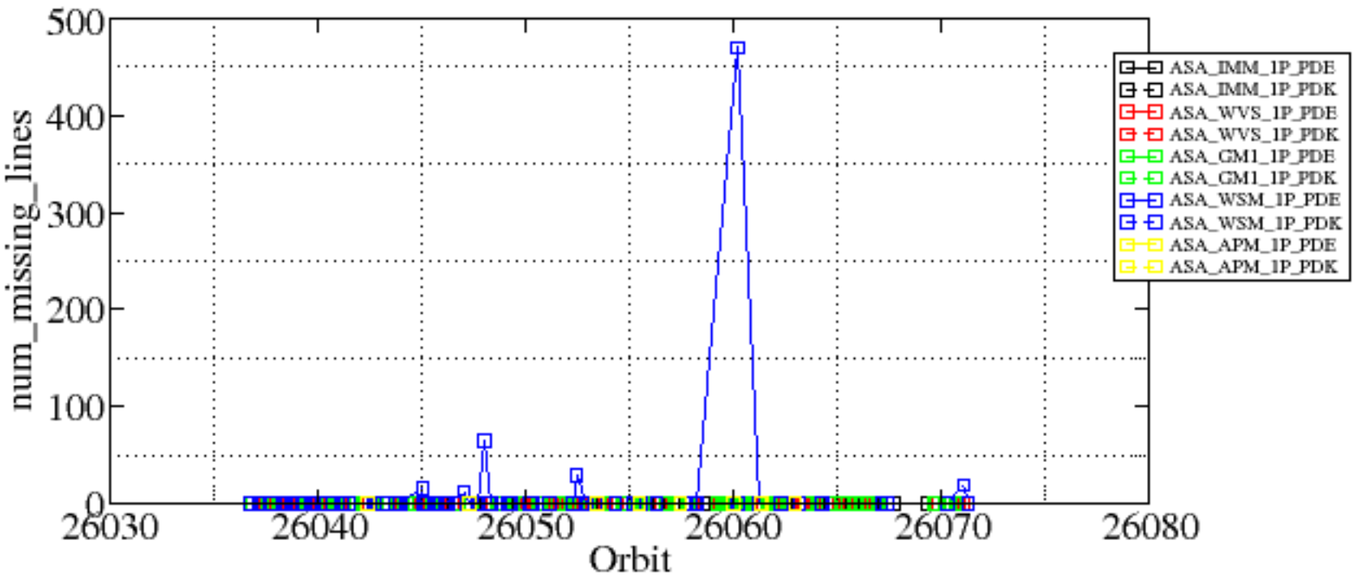
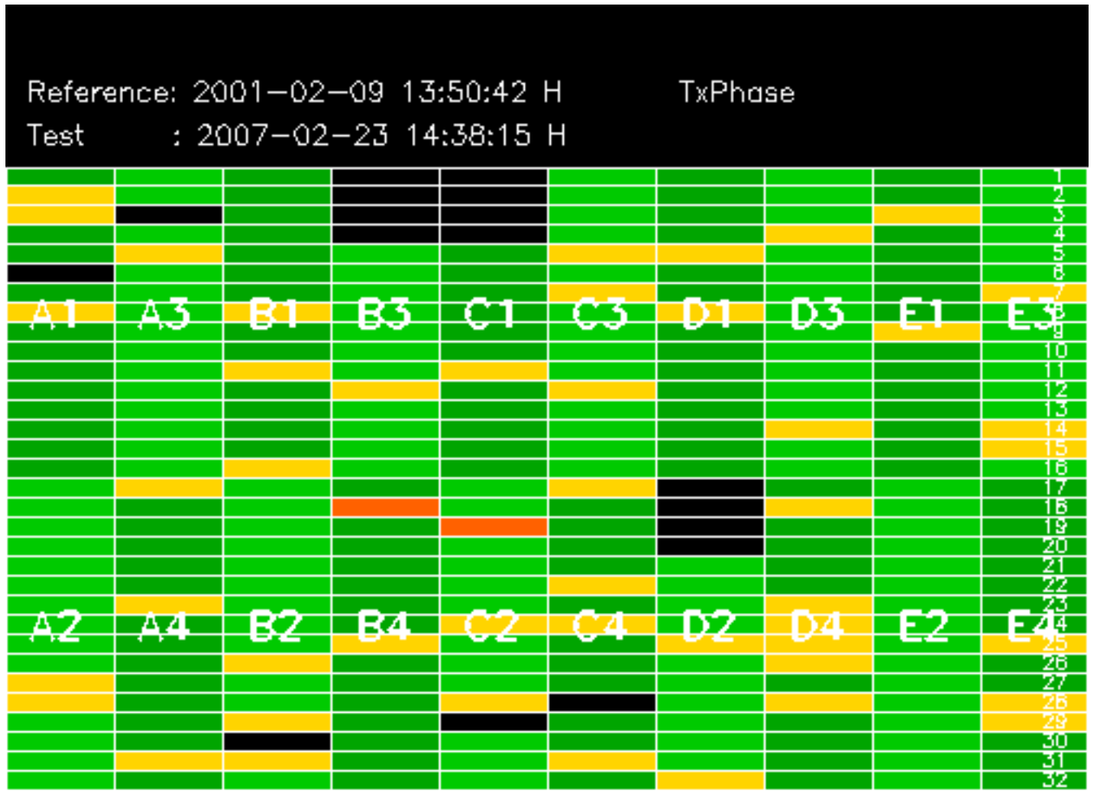
Summary of analysis for the last 3 days 2007022[234]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_WSM_1PNPDE20070222_172653_000001032055_00442_26047_8220.N1 </td> <td>0 </td> <td>12 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070222_190519_000001092055_00443_26048_8248.N1 </td> <td>0 </td> <td>65 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070223_023249_000000852055_00447_26052_8839.N1 </td> <td>0 </td> <td>29 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070223_153029_000000242055_00455_26060_9423.N1 </td> <td>2 </td> <td>470 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20070222_140625_000000852055_00440_26045_4805.N1 </td> <td>0 </td> <td>16 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20070224_094429_000000852055_00466_26071_6572.N1 </td> <td>0 </td> <td>19 </td></tr>
</table>


num_gaps
Orbit
2
1.5
1
0.5
0
26030
26040
26050
26060
26070
26080
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
500
400
300
200
100
0
26030
26040
26050
26060
26070
26080
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 : 2007-02-23 14:38:15 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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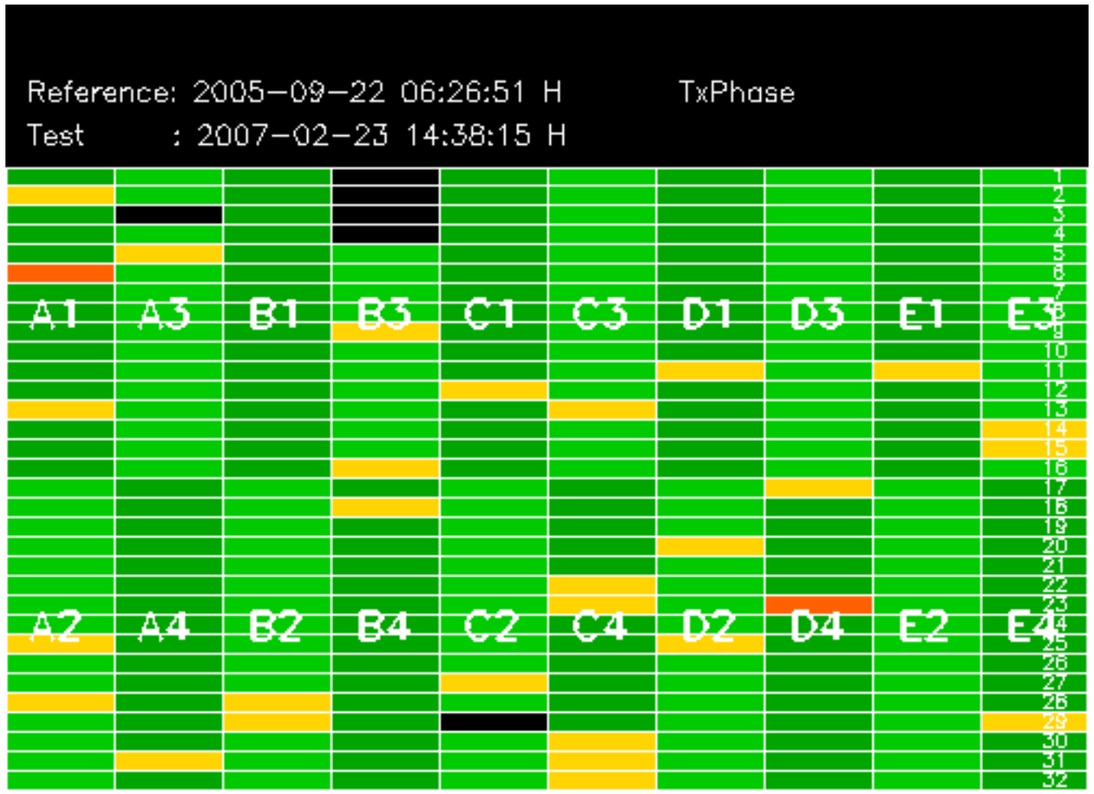
30
31
32


Reference: 2005-09-22 06:26:51 H
Test : 2007-02-23 14:38:15 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
4
5
6
7
8
9
10
11
12
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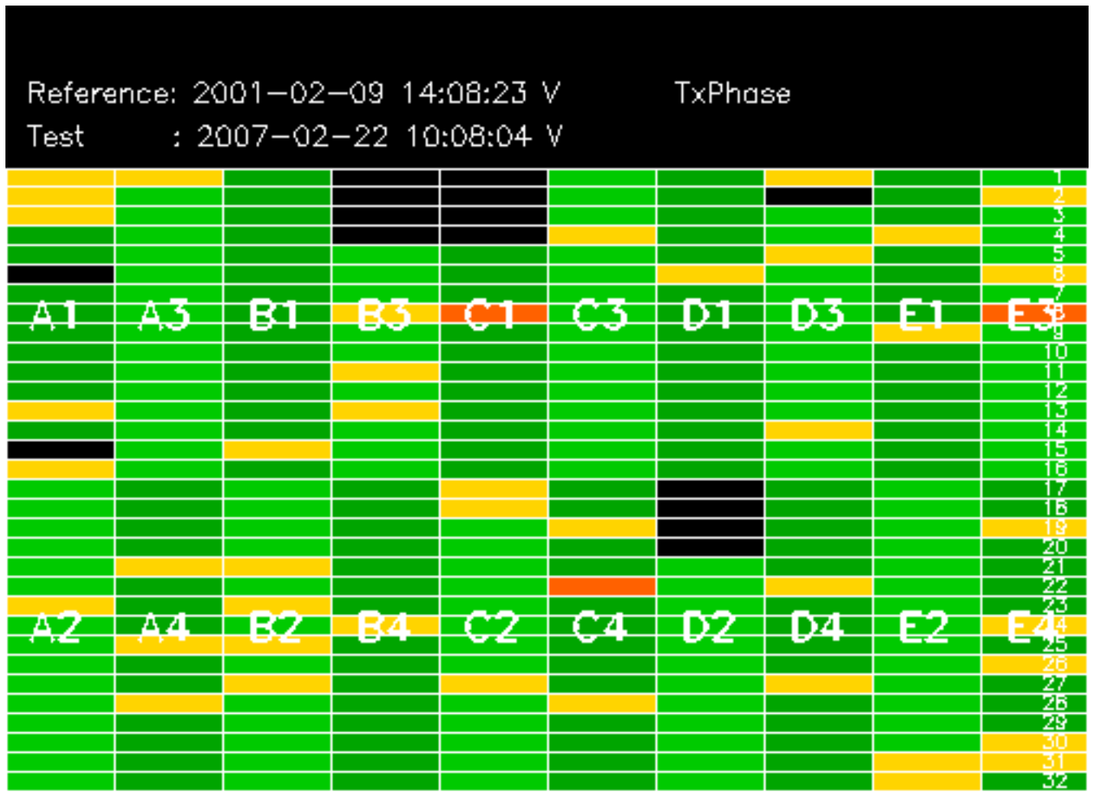
31
32


Reference: 2001-02-09 14:08:23 V
TxPhase
Test : 2007-02-22 10:08:04 V
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
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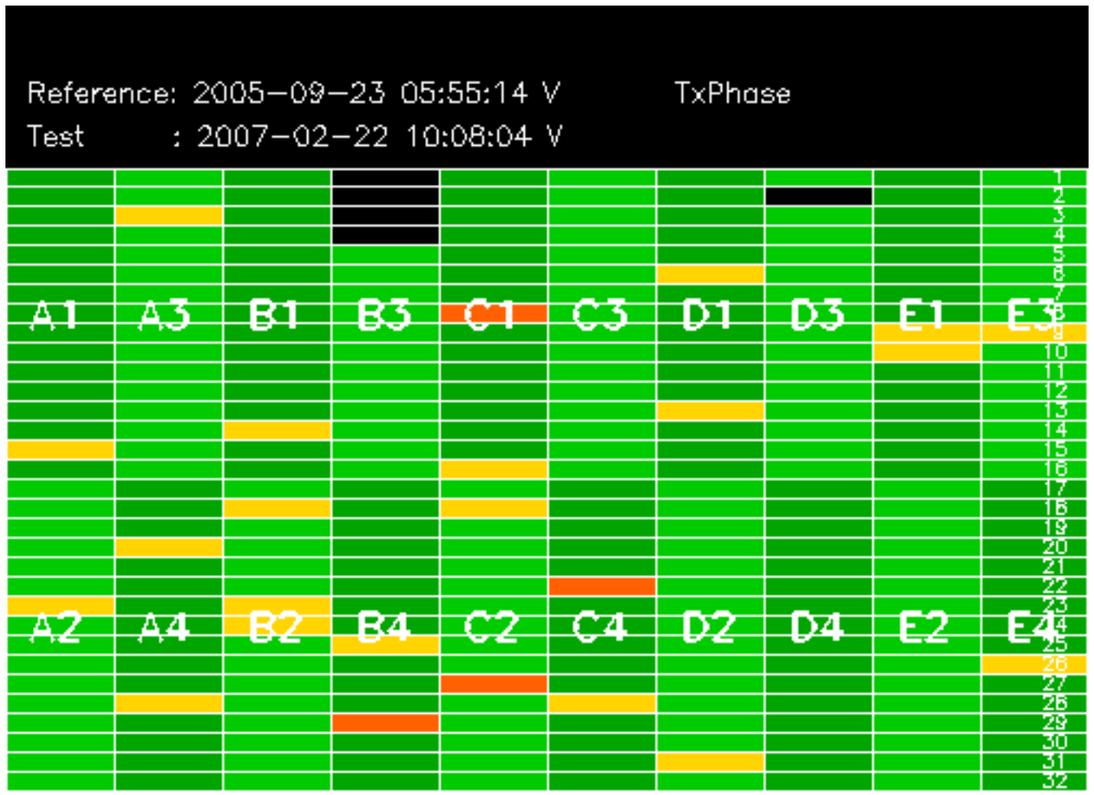
Reference: 2005-09-23 05:55:14 V
Test : 2007-02-22 10:08:04 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
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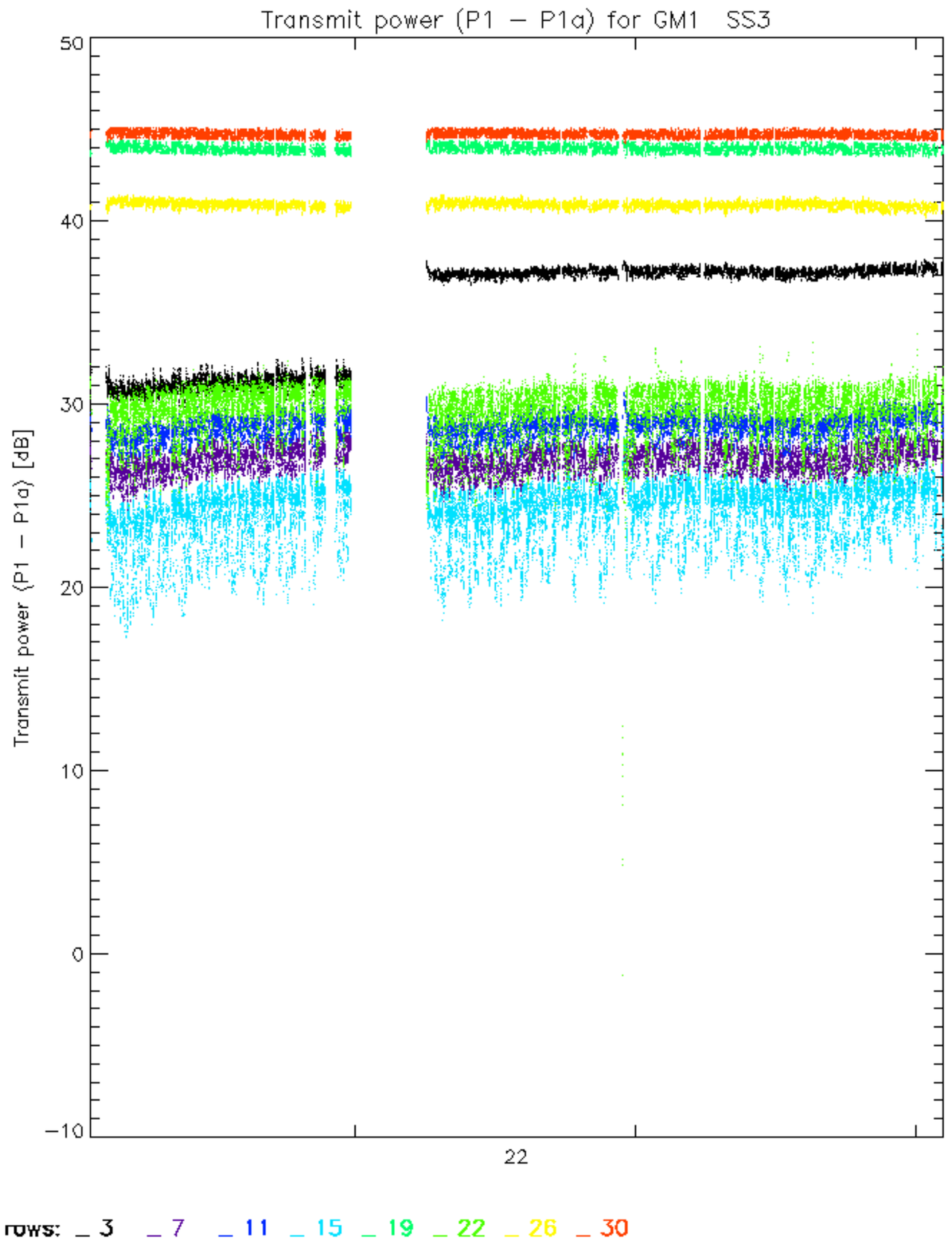
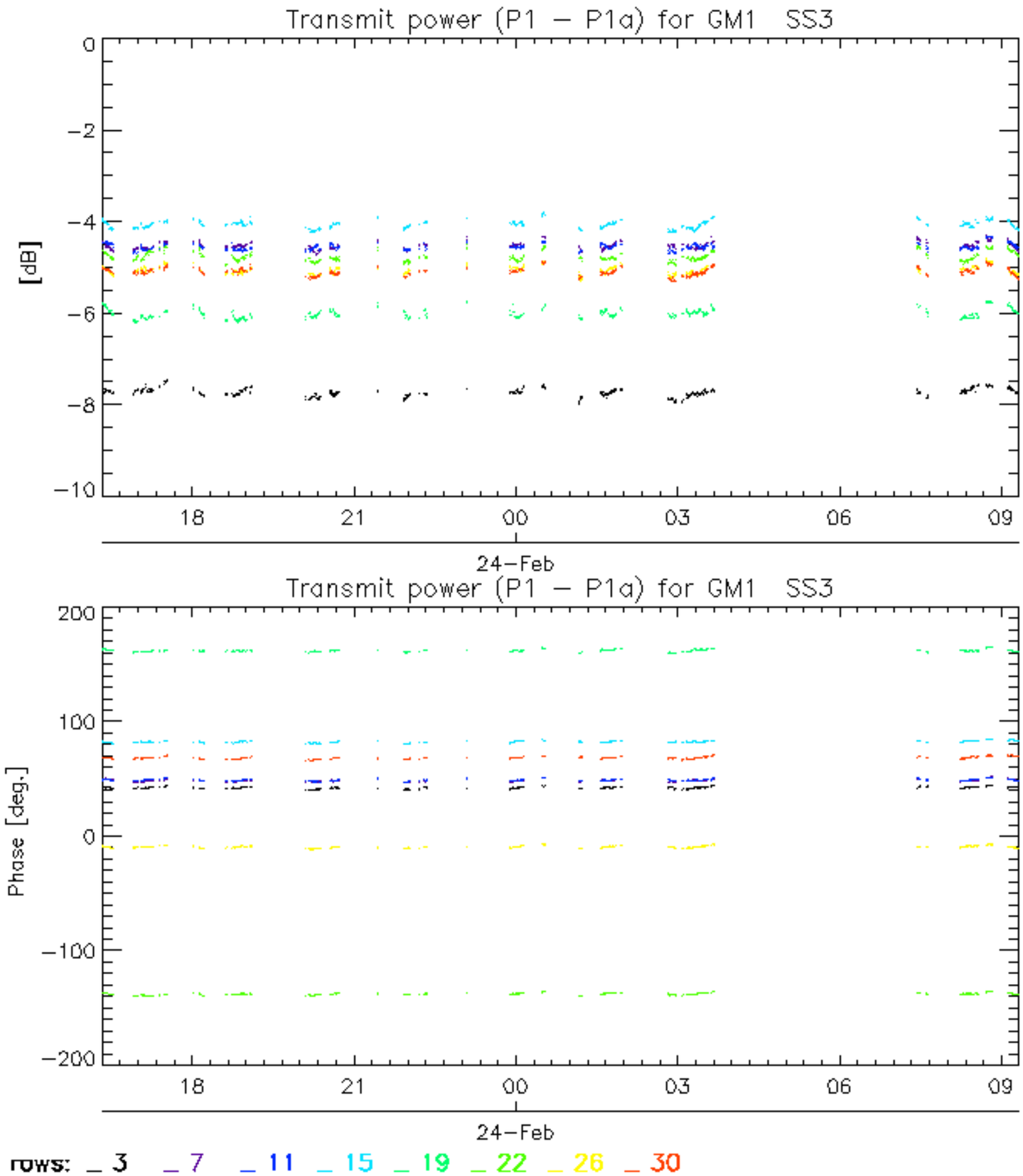
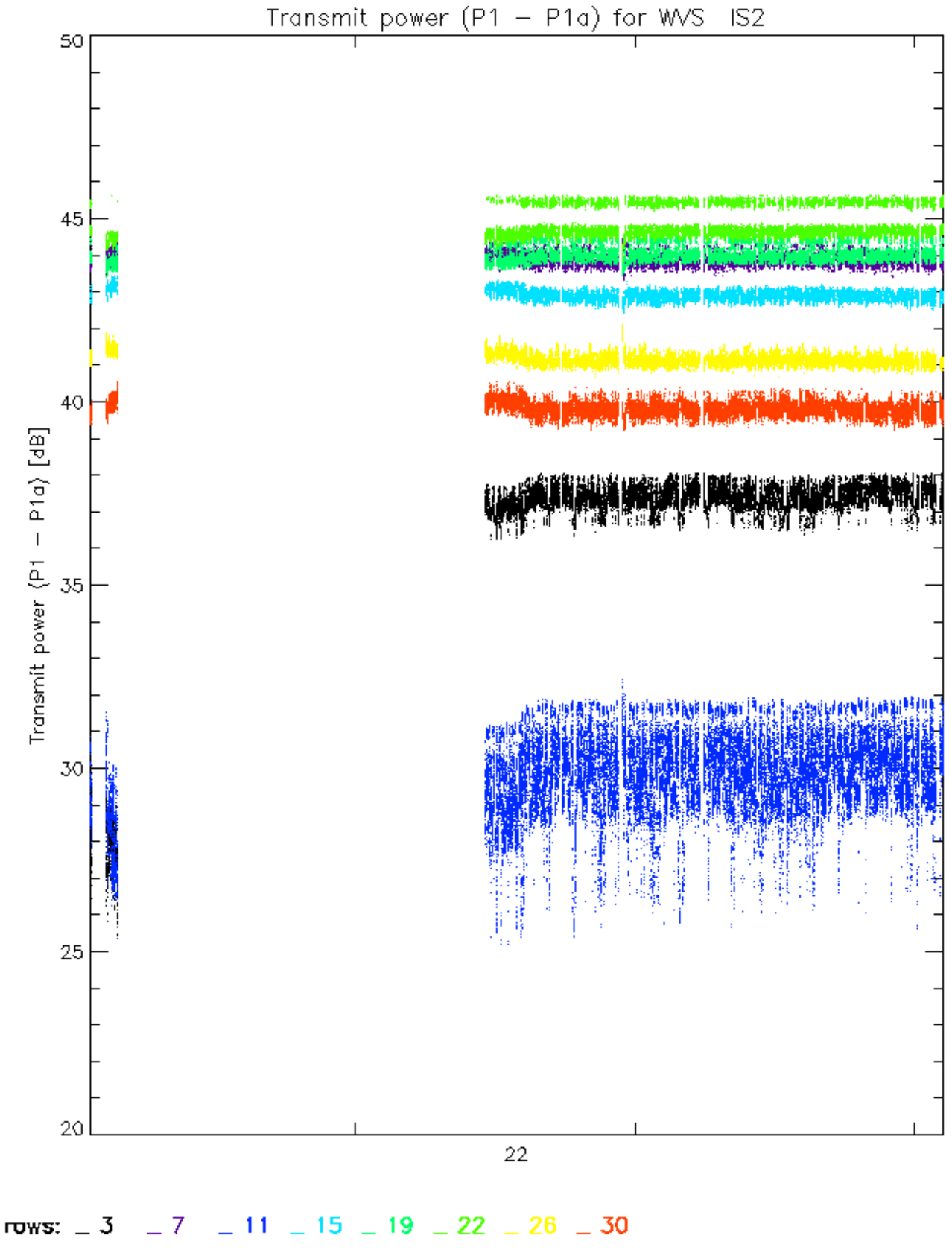
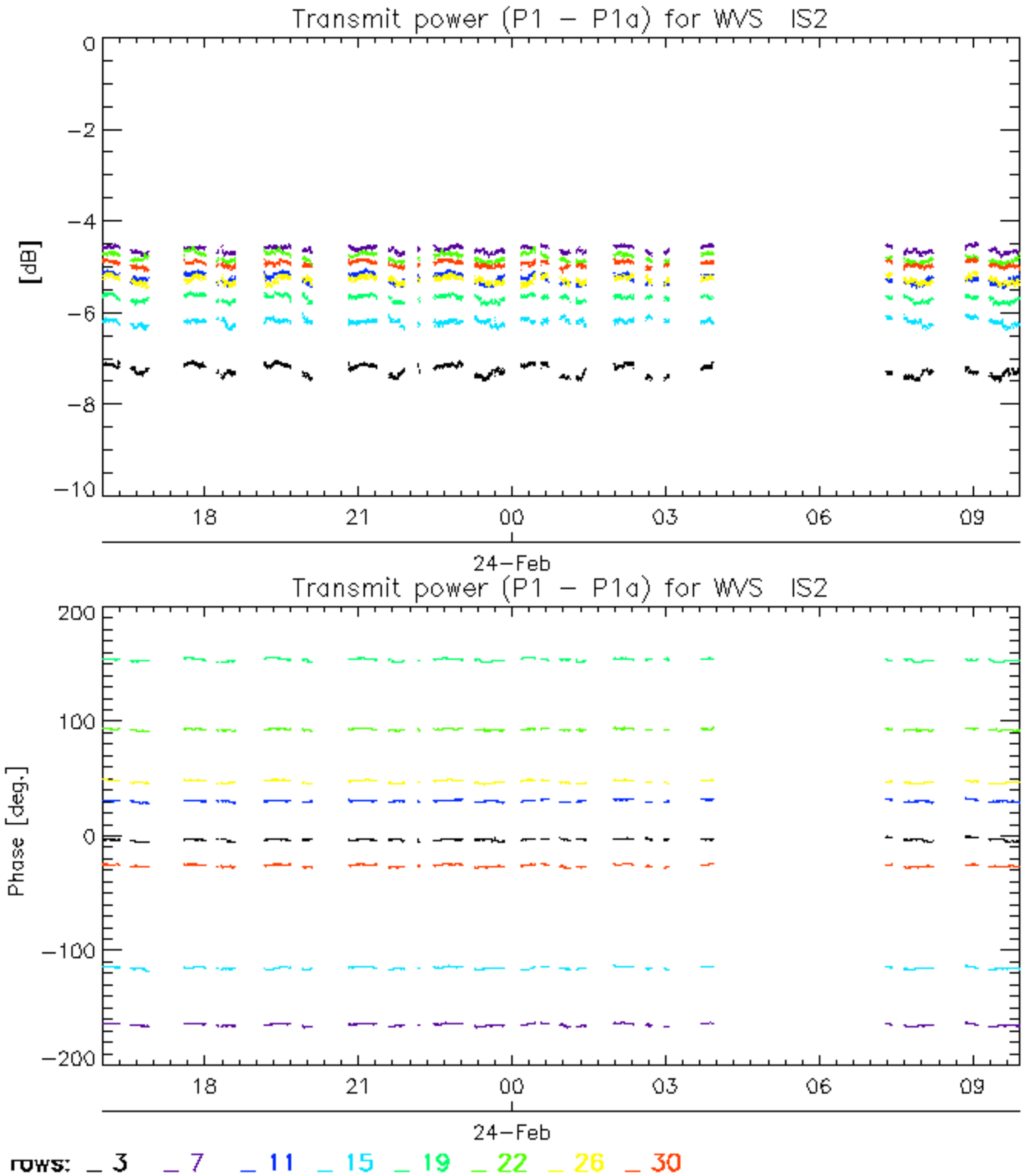

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
22
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
09
24−Feb
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
09
24−Feb
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
22
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
09
24–Feb
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
09
24–Feb
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.