PRELIMINARY REPORT OF 070225

last update on Sun Feb 25 16:24:27 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 2007-02-24 00:00:00 to 2007-02-25 16:24:27

PDHS-K					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20070222_190441_20070204_165113_20071231_000000	35	69	15	0	26
ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	35	69	15	0	26
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	35	69	15	0	26
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	35	69	15	0	26

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20070222_190441_20070204_165113_20071231_000000	37	39	58	4	18
ASA_XCA_AXVIEC20070222_185842_20070204_165113_20071231_000000	37	39	58	4	18
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	37	39	58	4	18
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	37	39	58	4	18

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	20070224 204902
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	-15.138698	0.212949	1.066484
7	P1a	-17.404673	0.106106	-0.137916
11	P1a	-17.309595	0.350014	0.082056
15	P1a	-12.841035	0.105141	-0.113201
19	P1a	-15.087390	0.092504	-0.015271
22	P1a	-15.484320	0.473994	-0.010644
26	P1a	-15.030035	0.206733	-0.232071
30	P1a	-17.310476	0.341585	-0.196291

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-5.632007	0.131301	-1.172145
7	P1	-3.104146	0.009239	-0.034956
11	P1	-4.125905	0.019347	-0.024997
15	P1	-6.328640	0.016146	-0.059975
19	P1	-3.710061	0.008704	-0.024717
22	P1	-4.669046	0.014222	0.016523
26	P1	-3.929336	0.012898	-0.015815
30	P1	-5.914997	0.011795	-0.012578

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-22.554470	0.236580	-1.253431
7	P2	-21.593397	0.083664	0.084835
11	P2	-15.482137	0.100788	-0.005722
15	P2	-7.008607	0.098171	-0.014169
19	P2	-9.075915	0.086417	-0.007349
22	P2	-18.099390	0.081495	-0.033491

26	P2	-16.499344	0.094541	-0.022005
30	P2	-19.329065	0.077239	-0.002848

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.196090	0.007717	0.003739
7	P3	-8.196090	0.007717	0.003739
11	P3	-8.196090	0.007717	0.003739
15	P3	-8.196090	0.007717	0.003739
19	P3	-8.196090	0.007717	0.003739
22	P3	-8.196090	0.007717	0.003739
26	P3	-8.196090	0.007717	0.003739
30	P3	-8.196090	0.007717	0.003739

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	-11.280741	0.135747	0.915717
7	P1a	-10.038706	0.064405	-0.055398
11	P1a	-10.590570	0.058156	-0.212846
15	P1a	-10.859193	0.132834	-0.099174
19	P1a	-15.738360	0.064319	0.032242
22	P1a	-20.861172	1.265403	0.271510
26	P1a	-15.414575	0.267154	0.246092
30	P1a	-18.342731	0.358977	-0.097100

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-7.079037	3.657385	-5.789669
7	P1	-2.434870	0.005928	0.017718

11	P1	-2.888171	0.015943	-0.085946
15	P1	-3.805898	0.033313	-0.094366
19	P1	-3.550313	0.012380	-0.003489
22	P1	-5.026754	0.022818	-0.015596
26	P1	-5.986318	0.023486	0.044861
30	P1	-5.284370	0.022824	0.022477

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.520164	0.736282	-2.498327
7	P2	-21.988382	0.053075	0.139538
11	P2	-10.667924	0.030724	0.081752
15	P2	-4.822074	0.027136	0.061491
19	P2	-6.819163	0.028442	0.068103
22	P2	-8.123880	0.029673	0.087315
26	P2	-24.249168	0.032539	0.013837
30	P2	-21.769430	0.036263	0.102021

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.043303	0.003258	0.035801
7	P3	-8.043326	0.003270	0.035487
11	P3	-8.043391	0.003264	0.035293
15	P3	-8.043308	0.003273	0.035540
19	P3	-8.043354	0.003253	0.035393
22	P3	-8.043441	0.003265	0.035323
26	P3	-8.043303	0.003262	0.035506
30	P3	-8.043338	0.003271	0.035332

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	0.000615879
	stdev	2.34933e-07
MEAN Q	mean	0.000395114
	stdev	2.50473e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.107302
	stdev	0.00257129
STDEV Q	mean	0.107355
	stdev	0.00262098

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2007022[345]
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_1PNPDE20070223_023249_000000852055_00447_26052_8839.N1	0	29
ASA_WSM_1PNPDE20070223_153029_000000242055_00455_26060_9423.N1	2	470

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

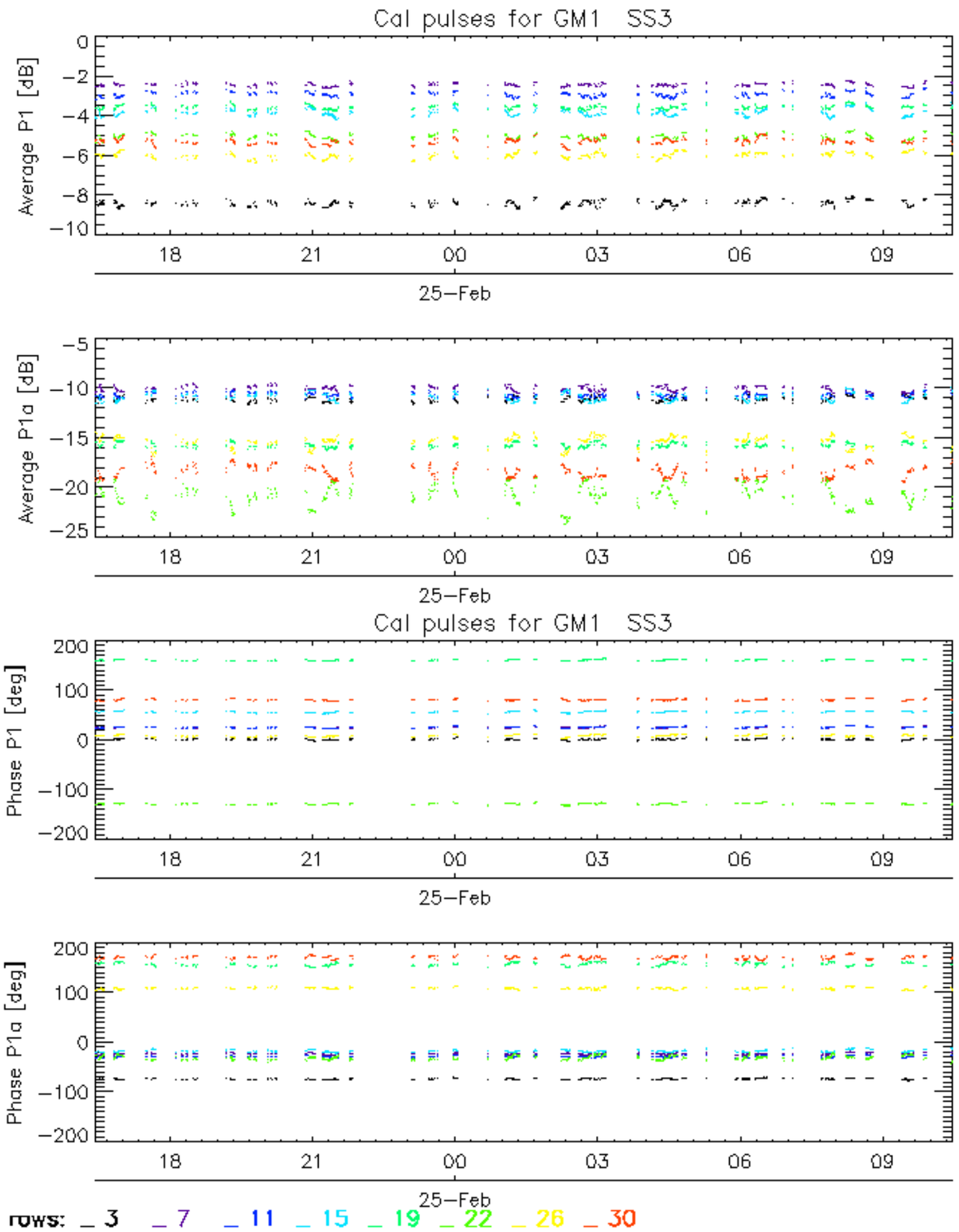
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

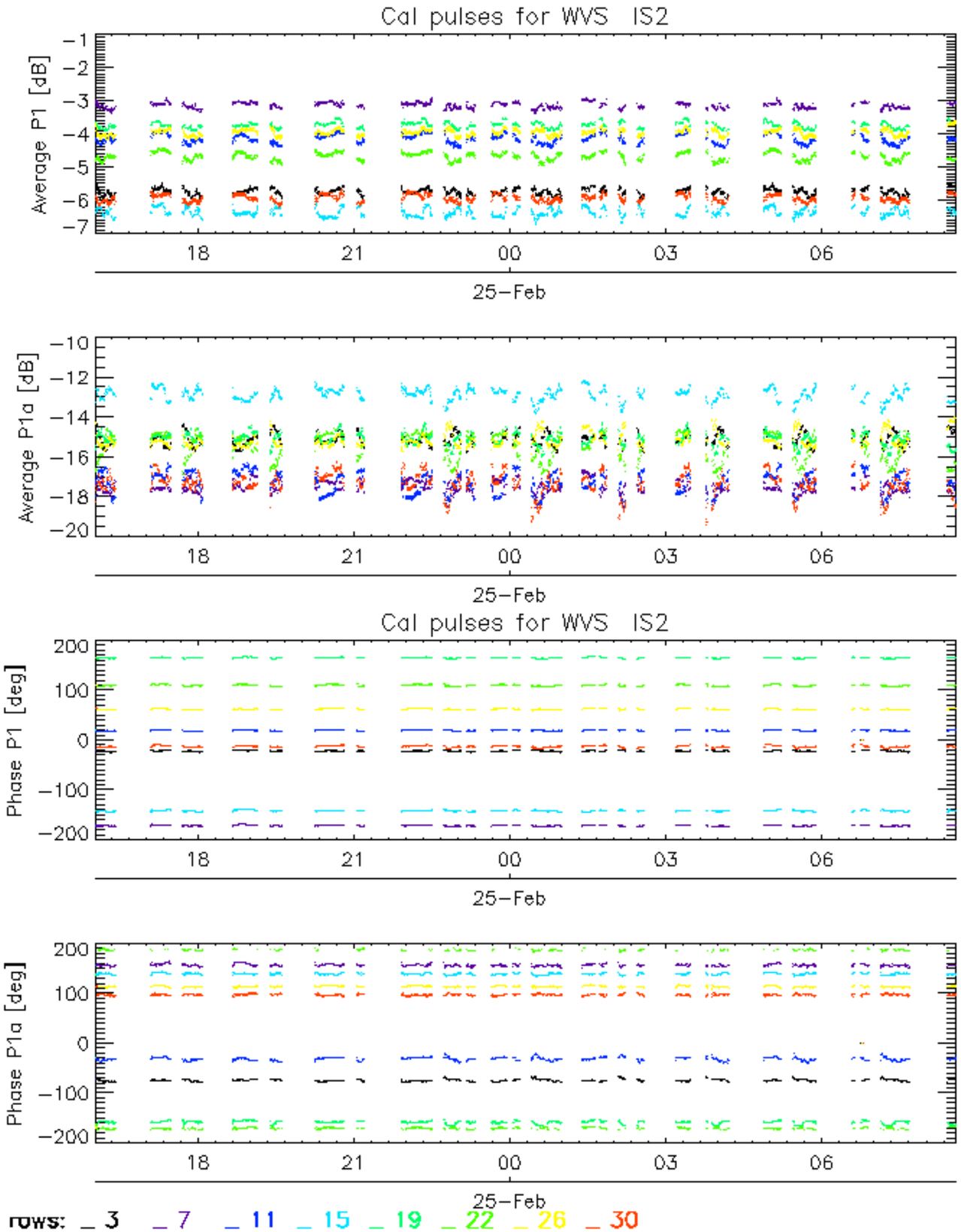
7.5 - Absolute Doppler for GM1

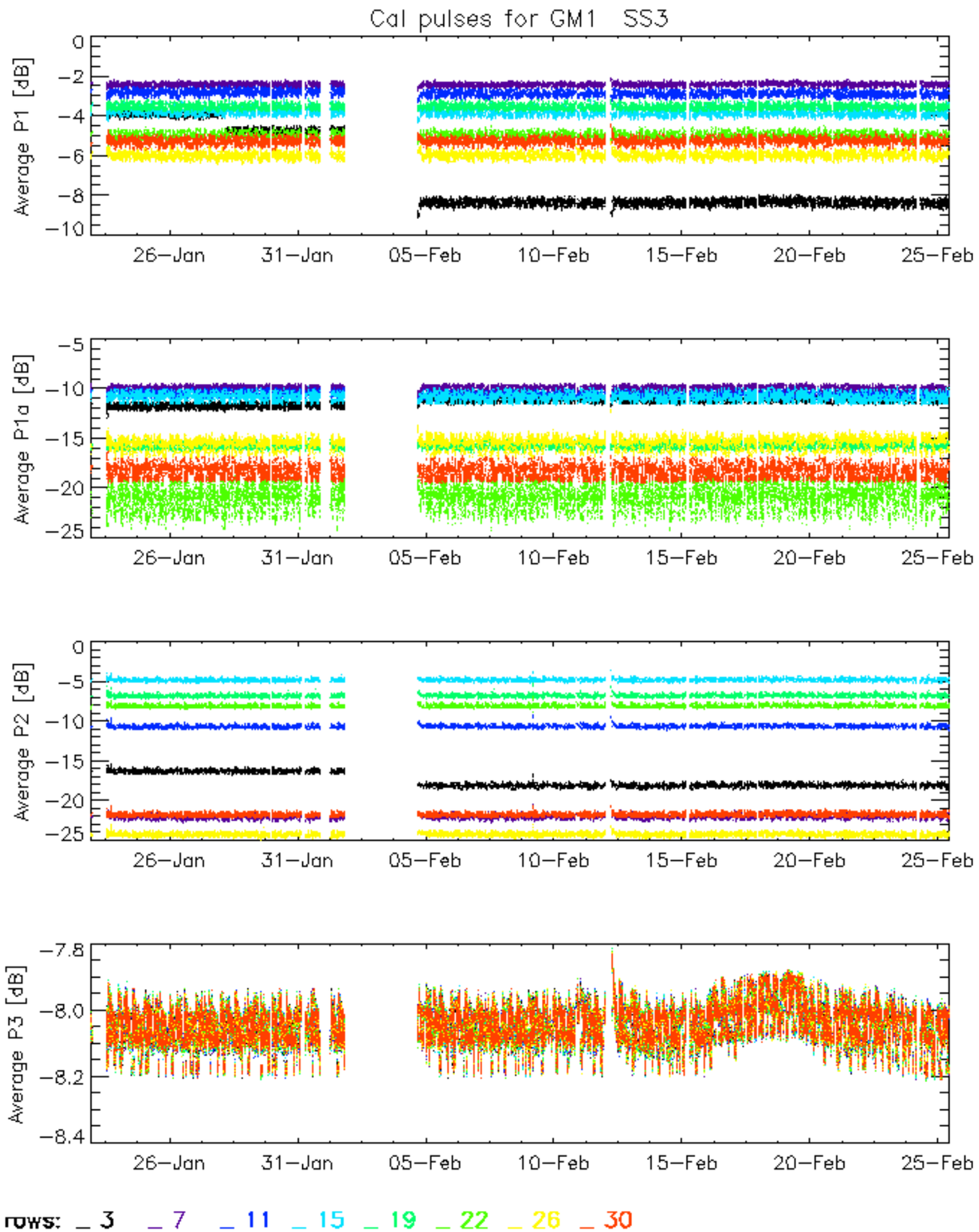
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

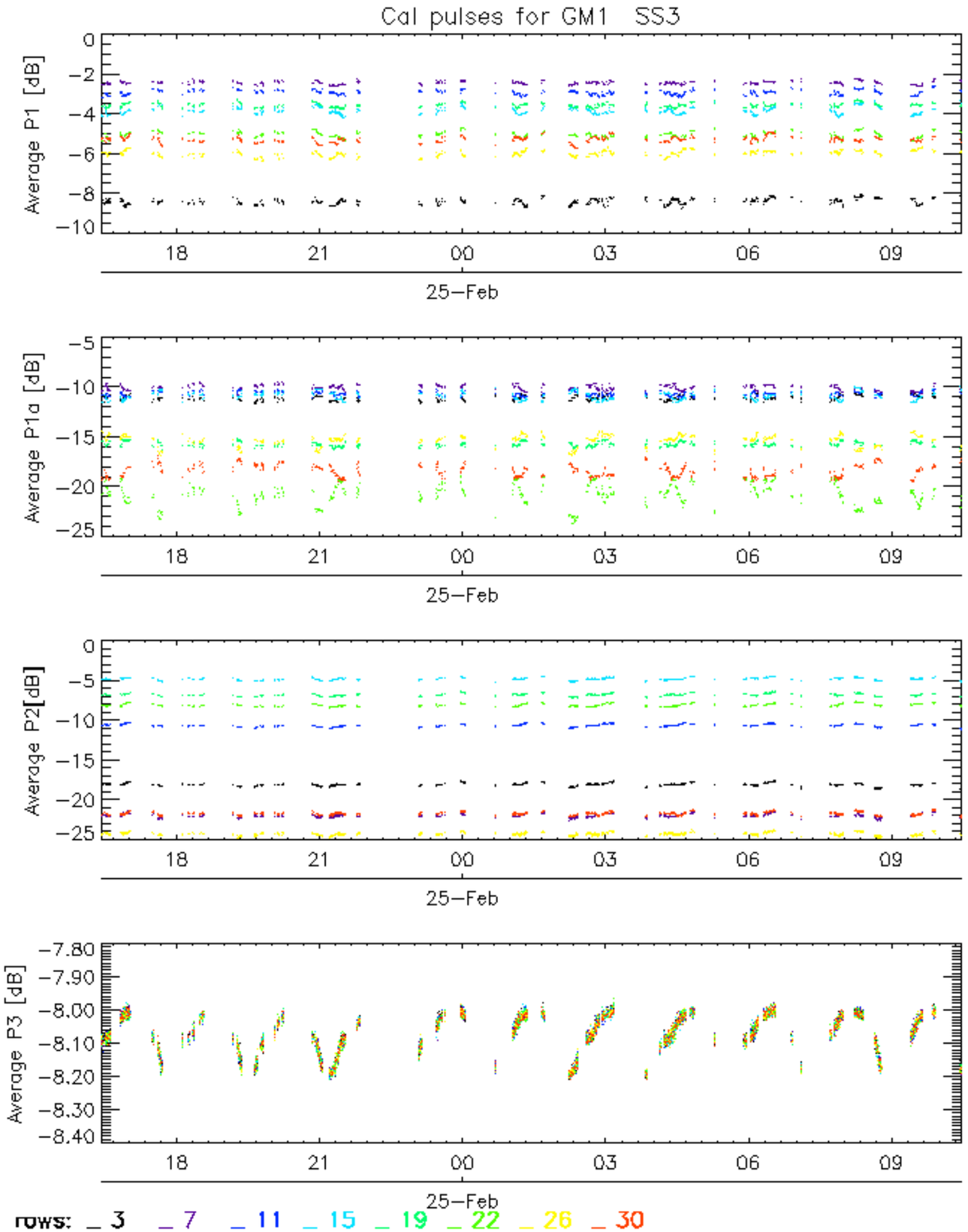
7.6 - Doppler evolution versus ANX for GM1

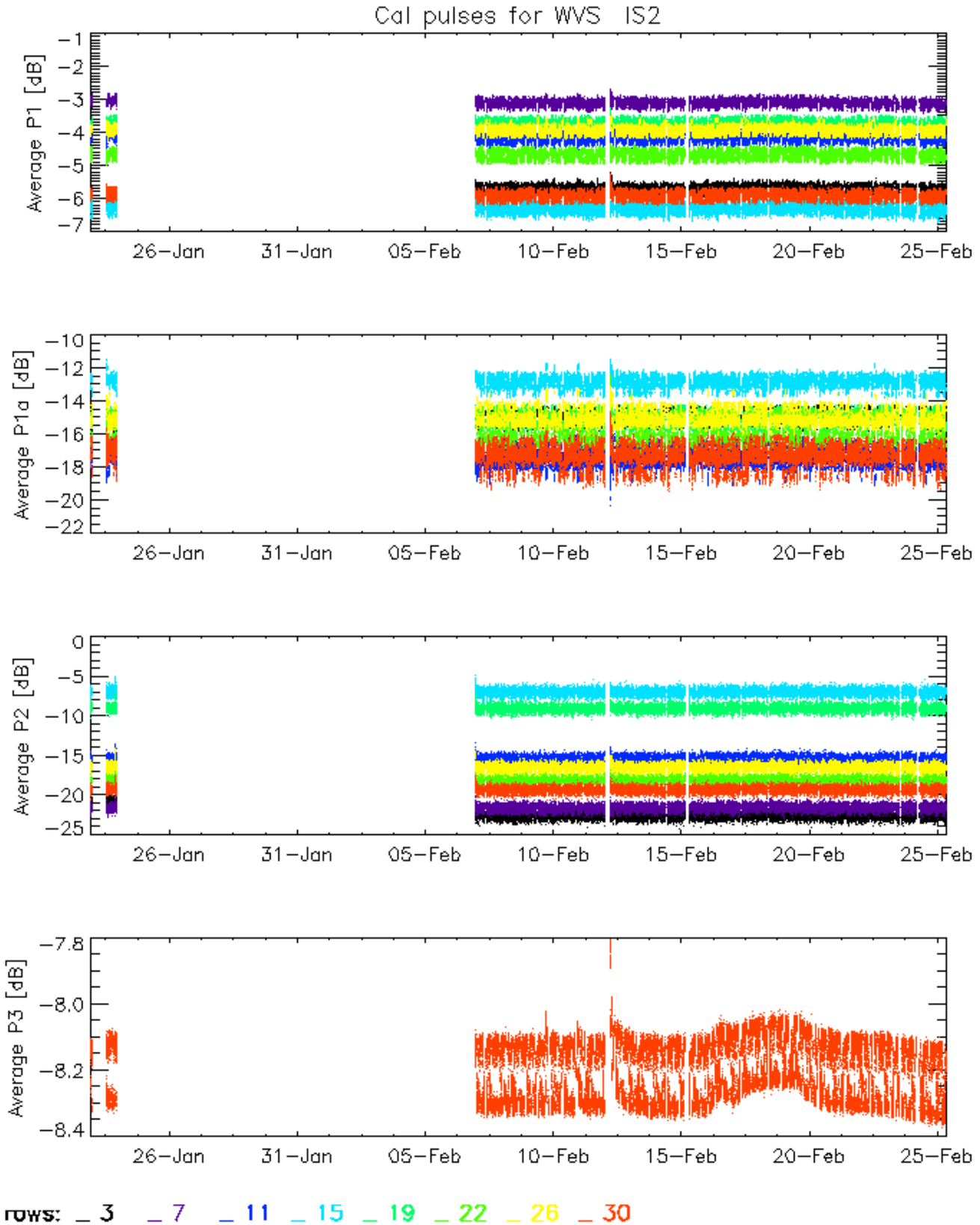
Evolution Doppler error versus ANX
☒

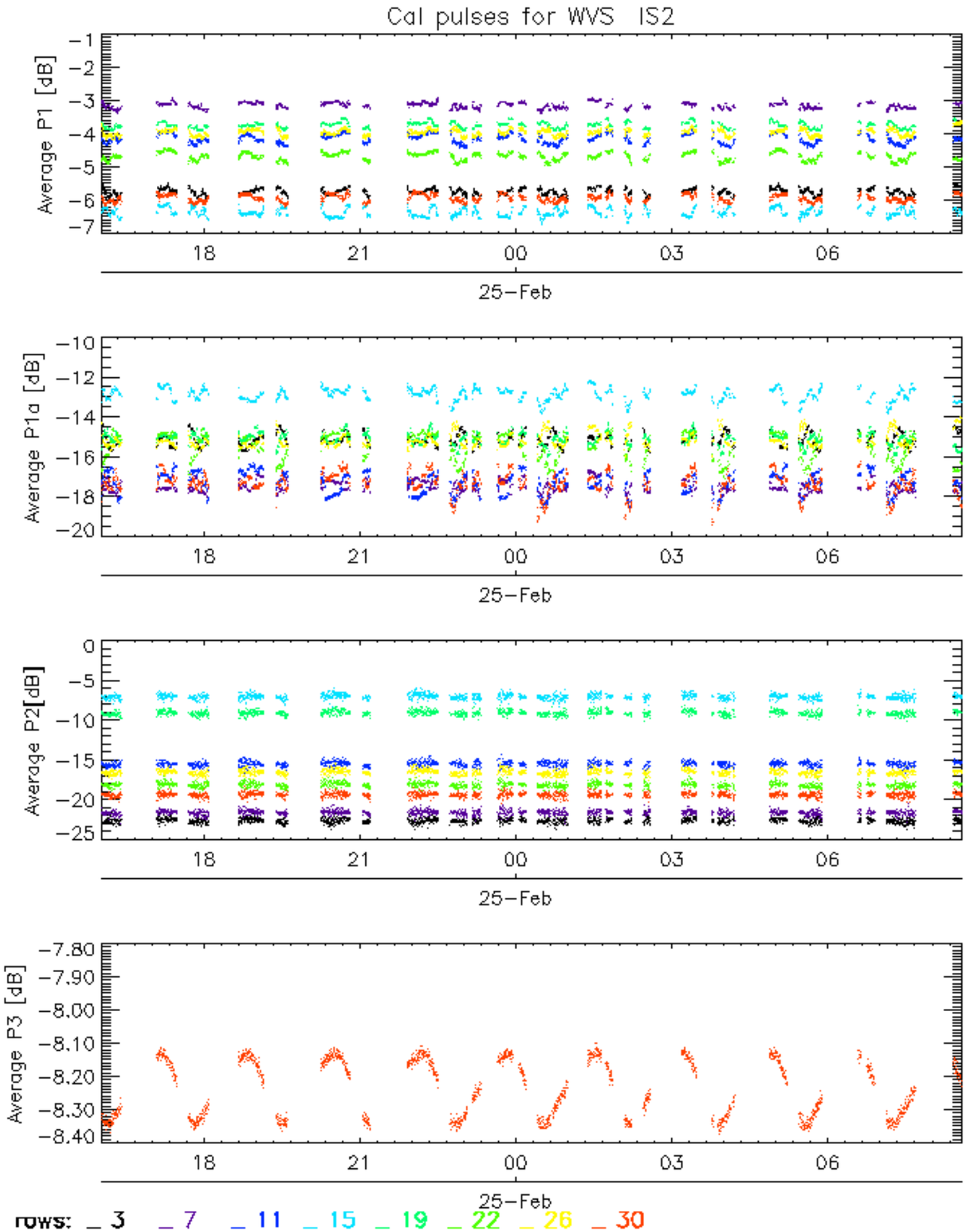

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
18
21
00
03
06
09
25−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
09
25−Feb
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
09
25−Feb
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
09
25−Feb
rows: _ 3 _ 7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

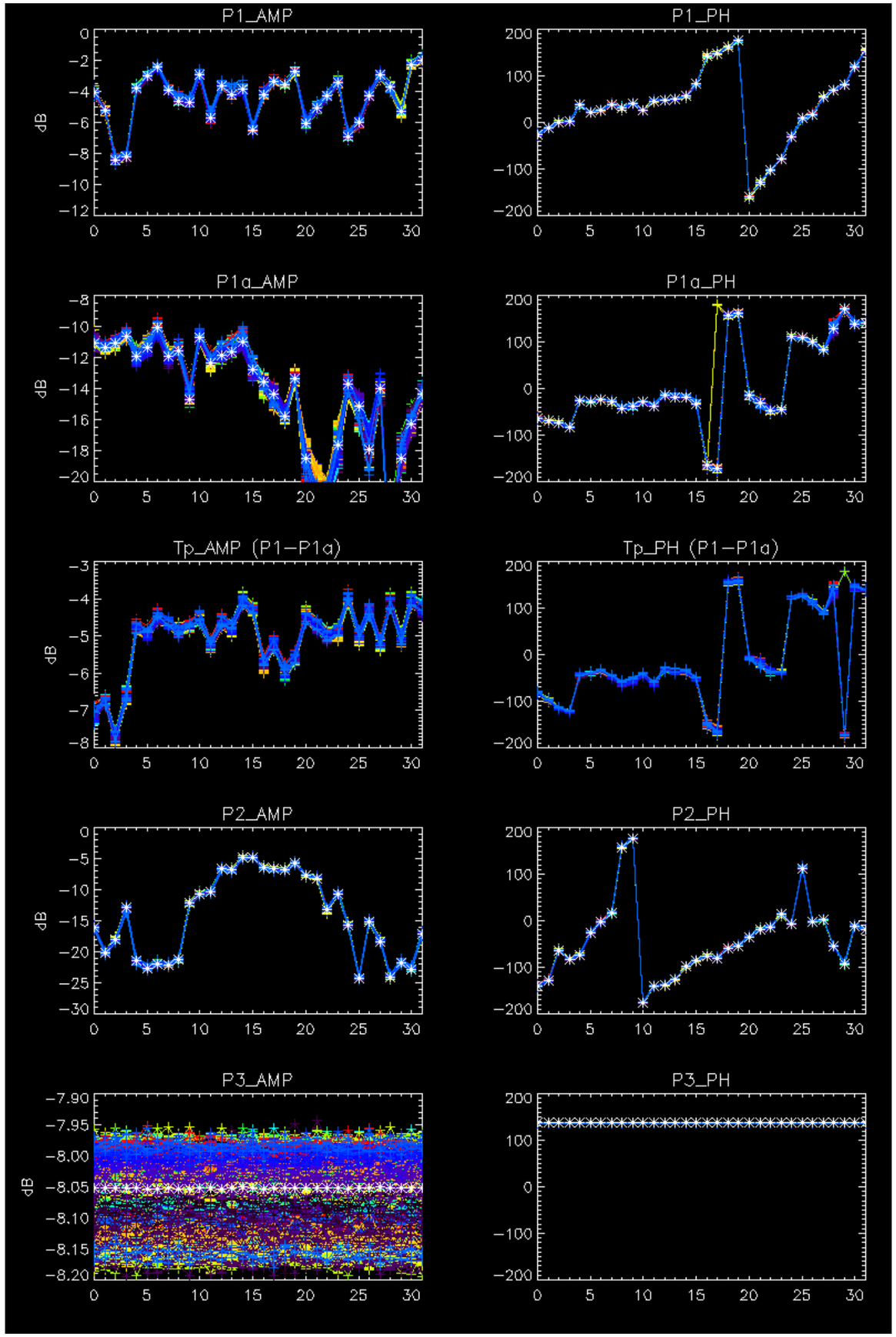

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb
25−Feb
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

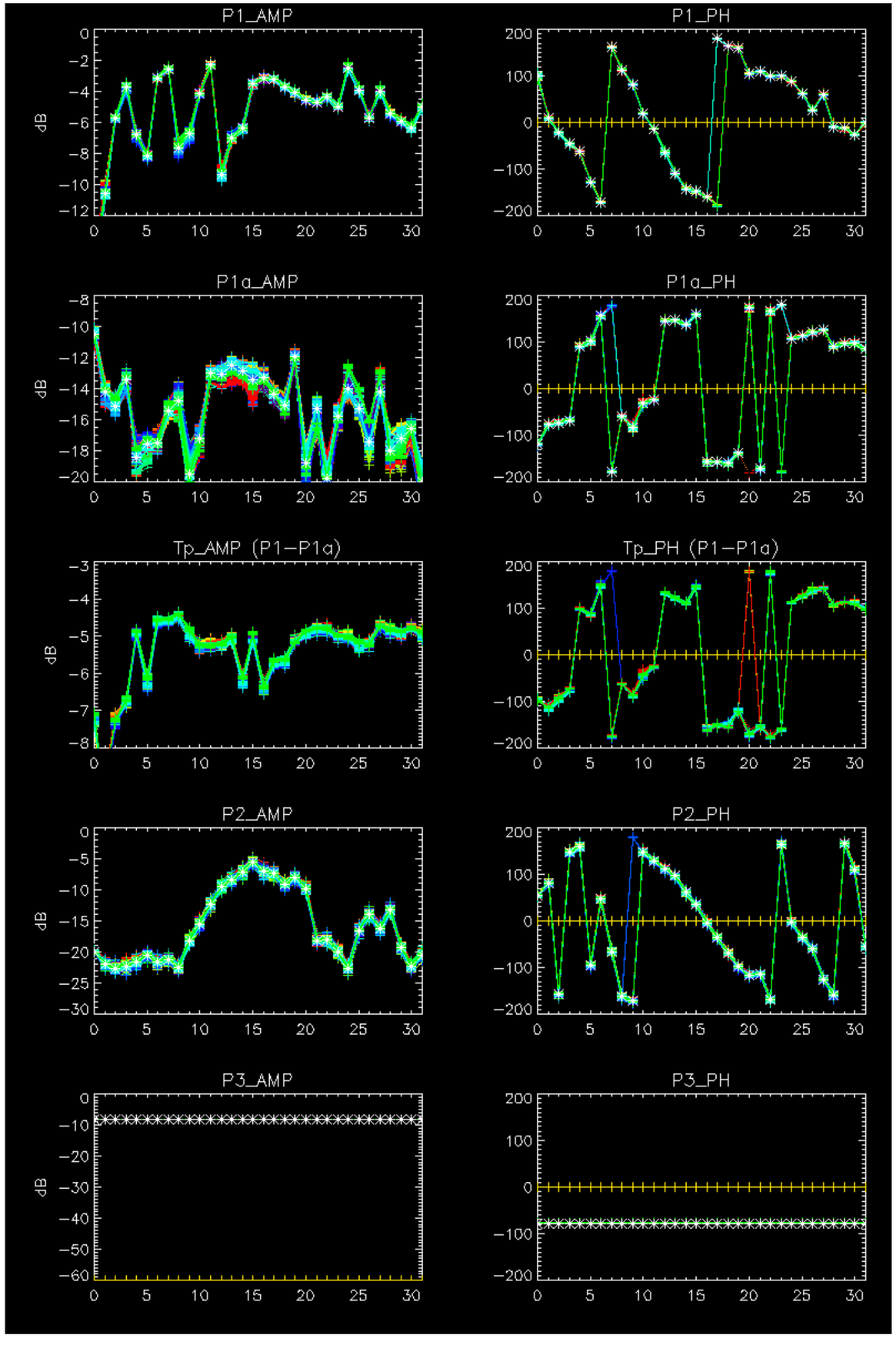

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
18
21
00
03
06
09
25−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
09
25−Feb
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
09
25−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
09
25−Feb
rows: 3 7 11 15 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
25−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
25−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
25−Feb
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
25−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
25−Feb
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

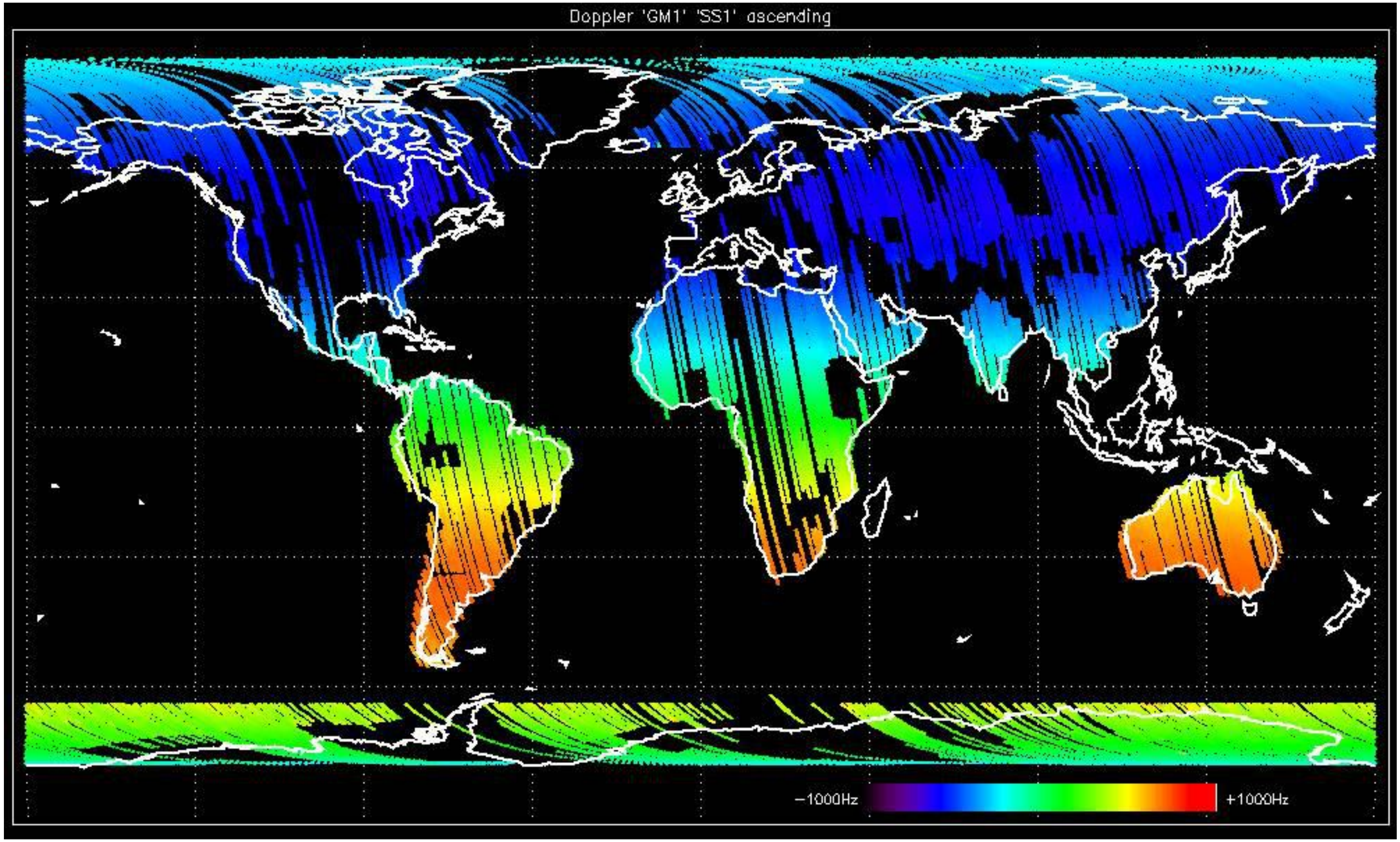
No anomalies observed.

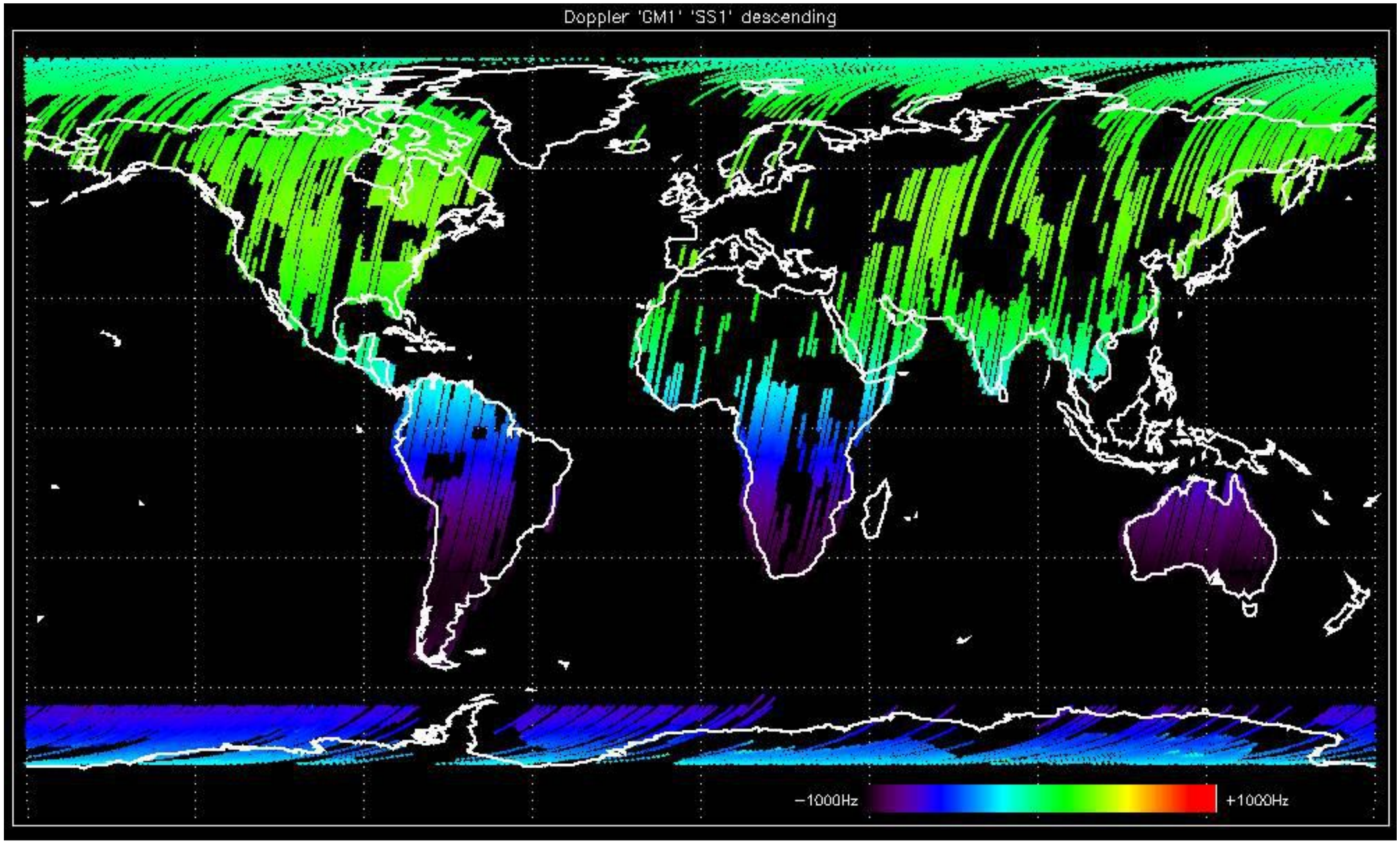

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

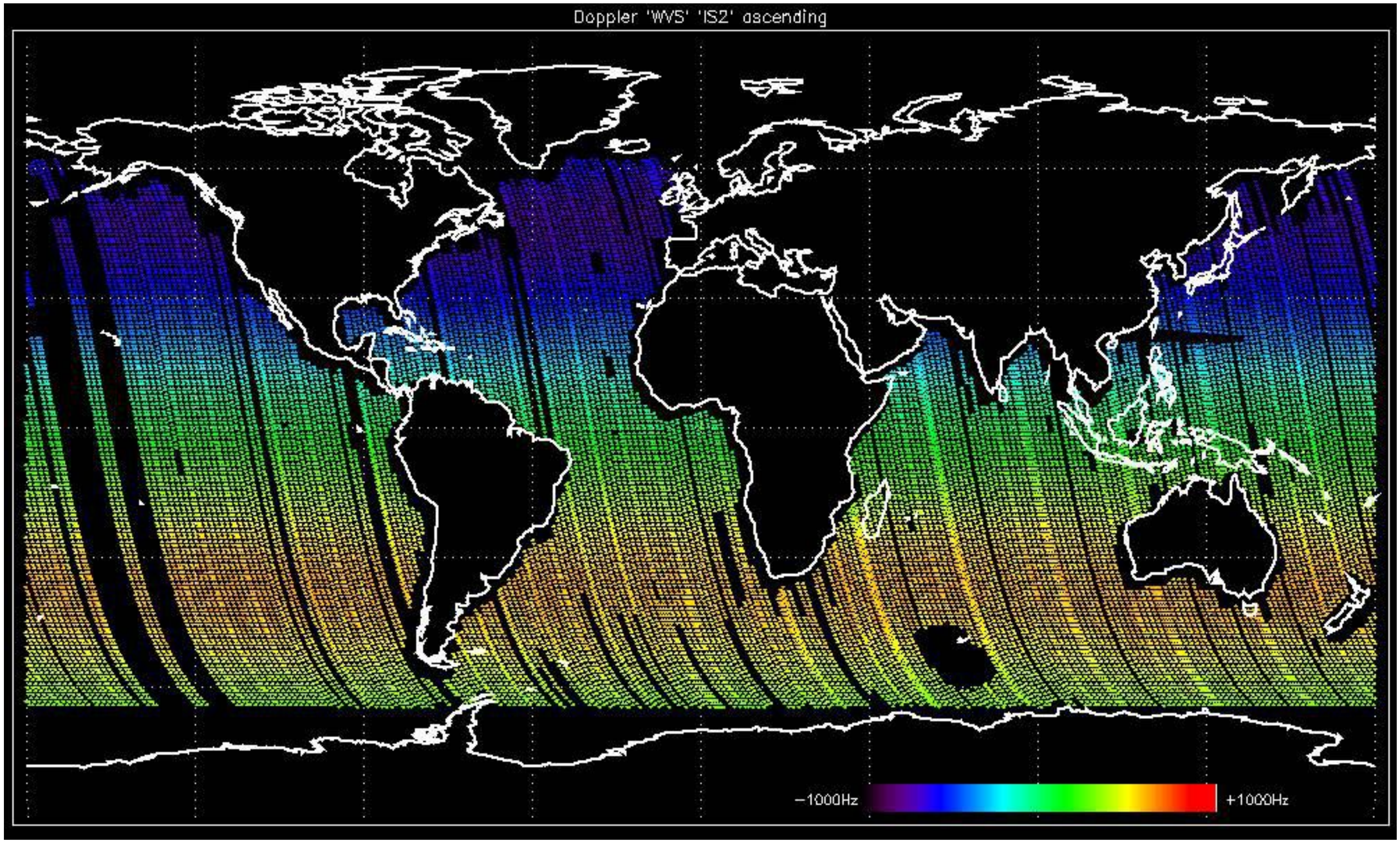

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

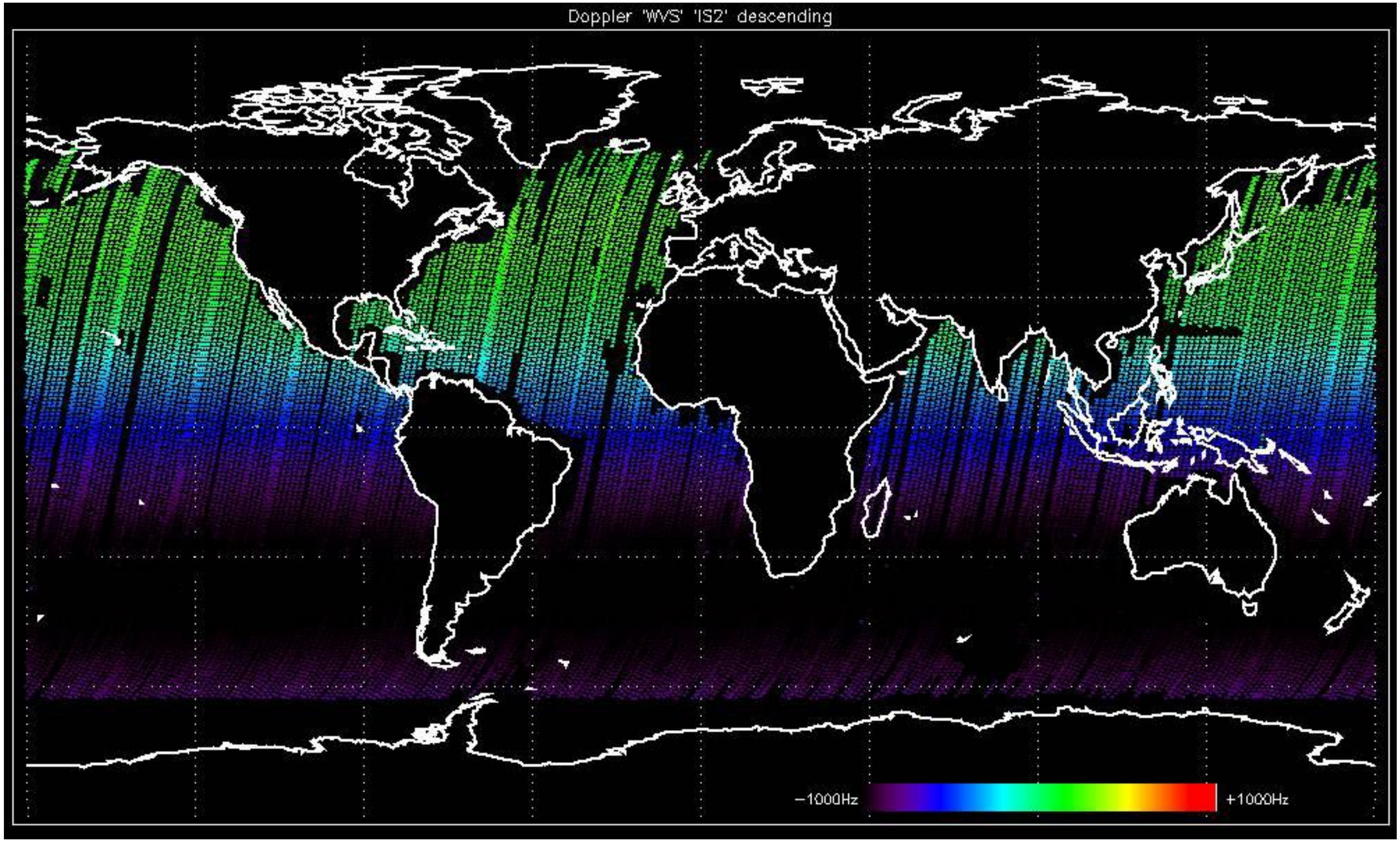
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

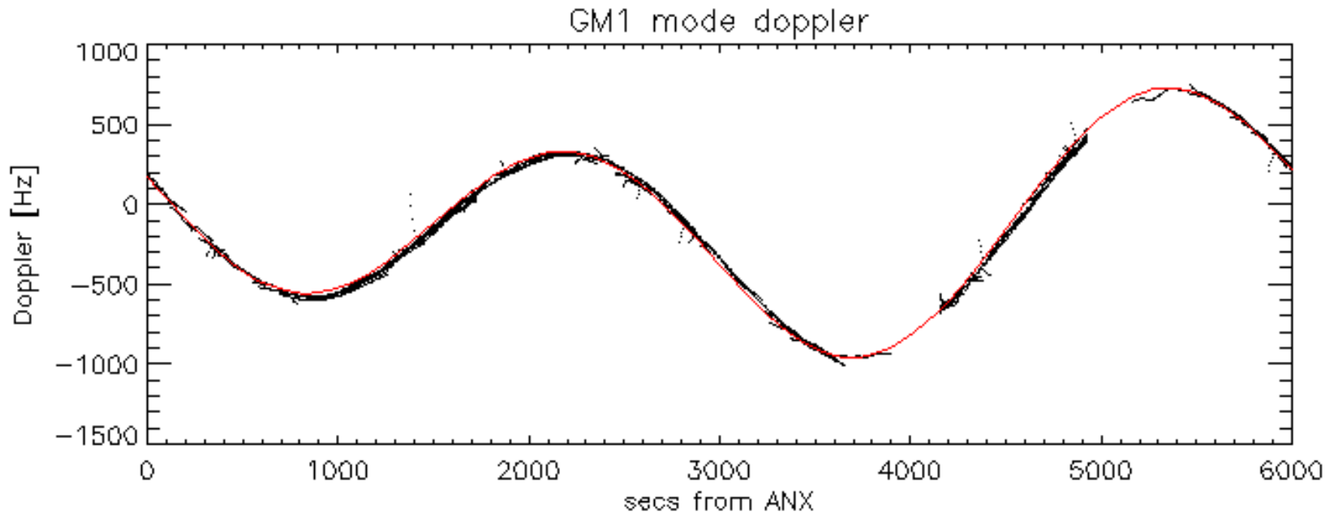
Preliminary report.The data is not yet controled

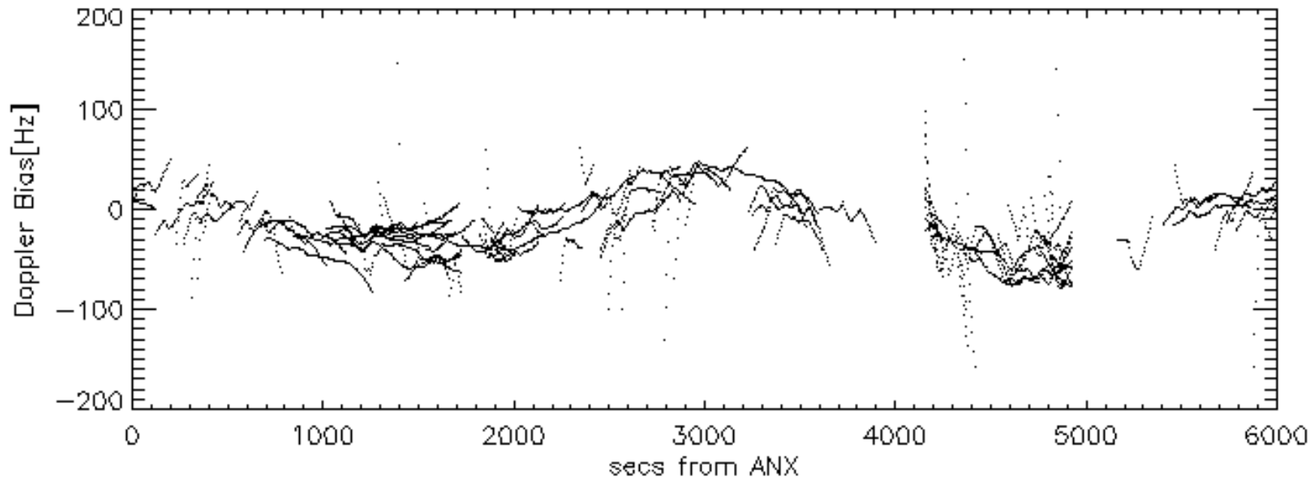

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

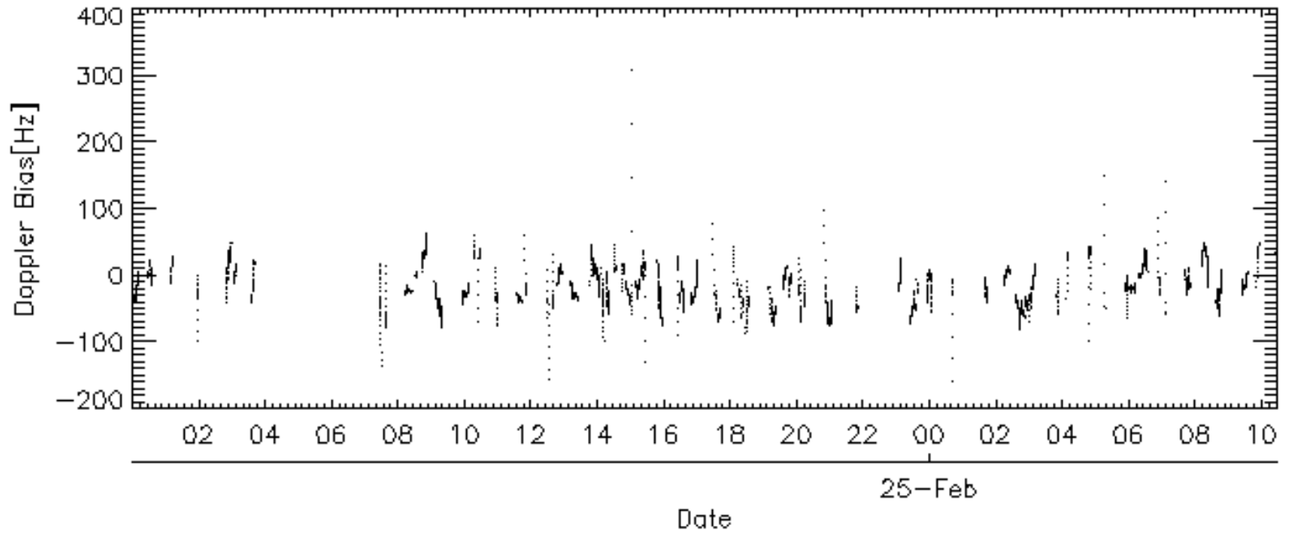

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

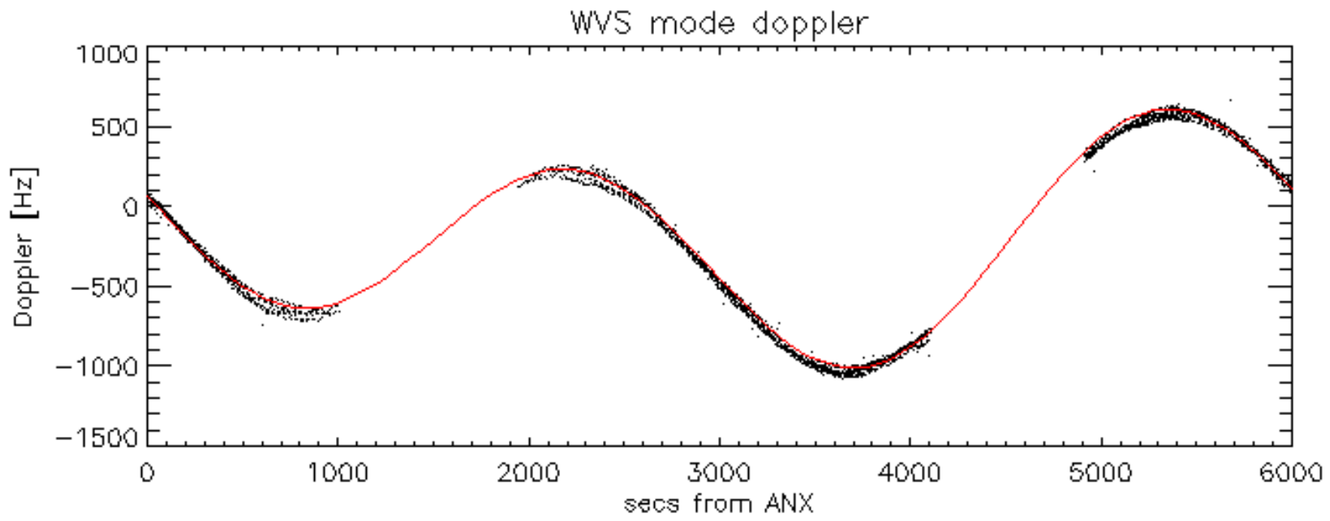

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

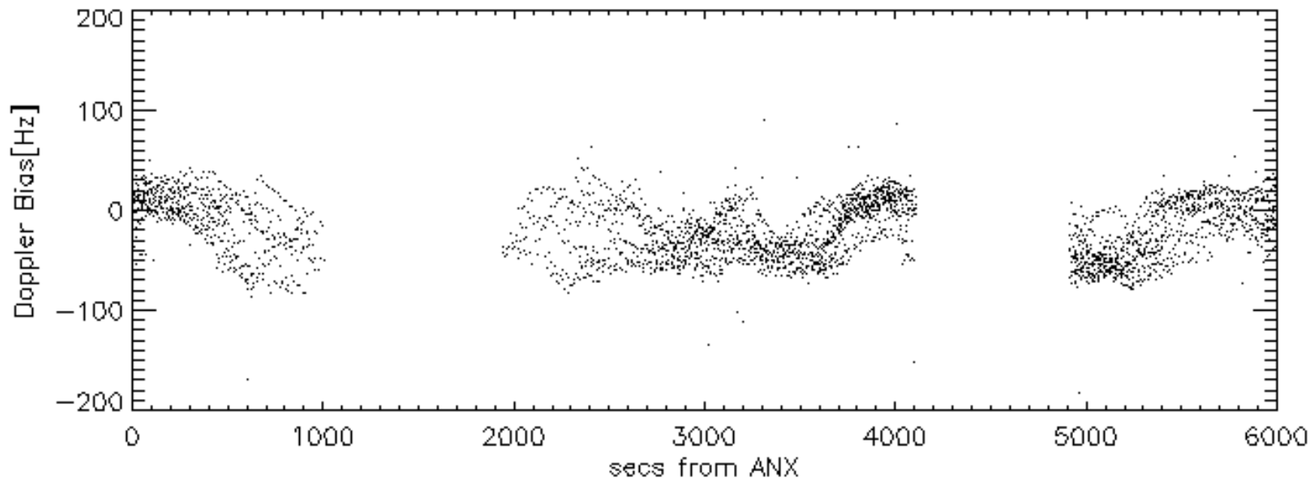

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

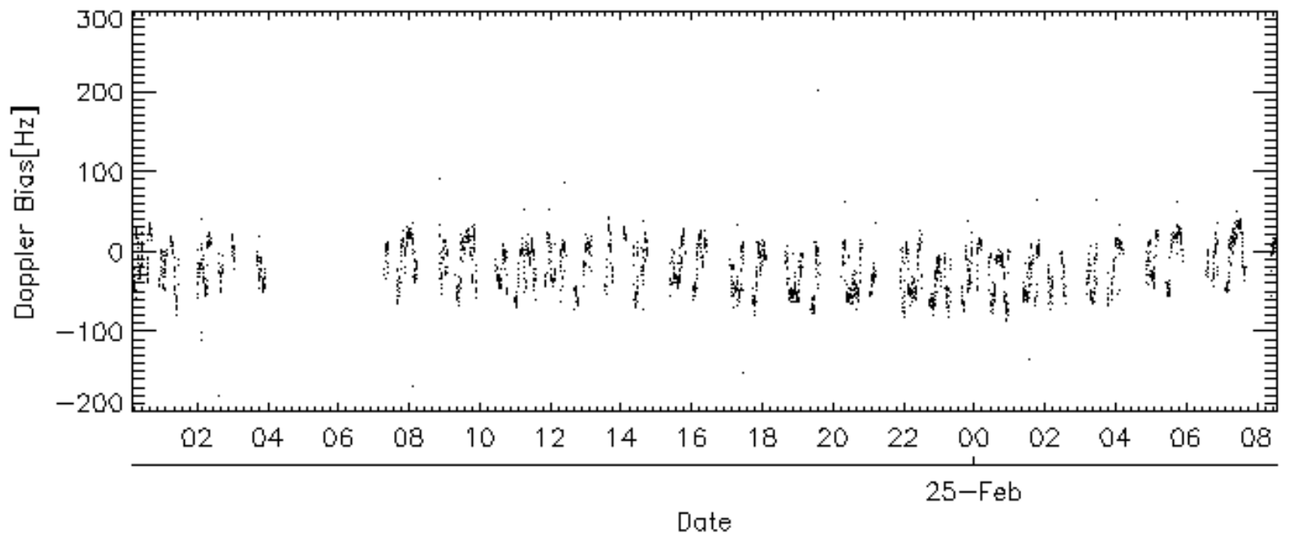

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

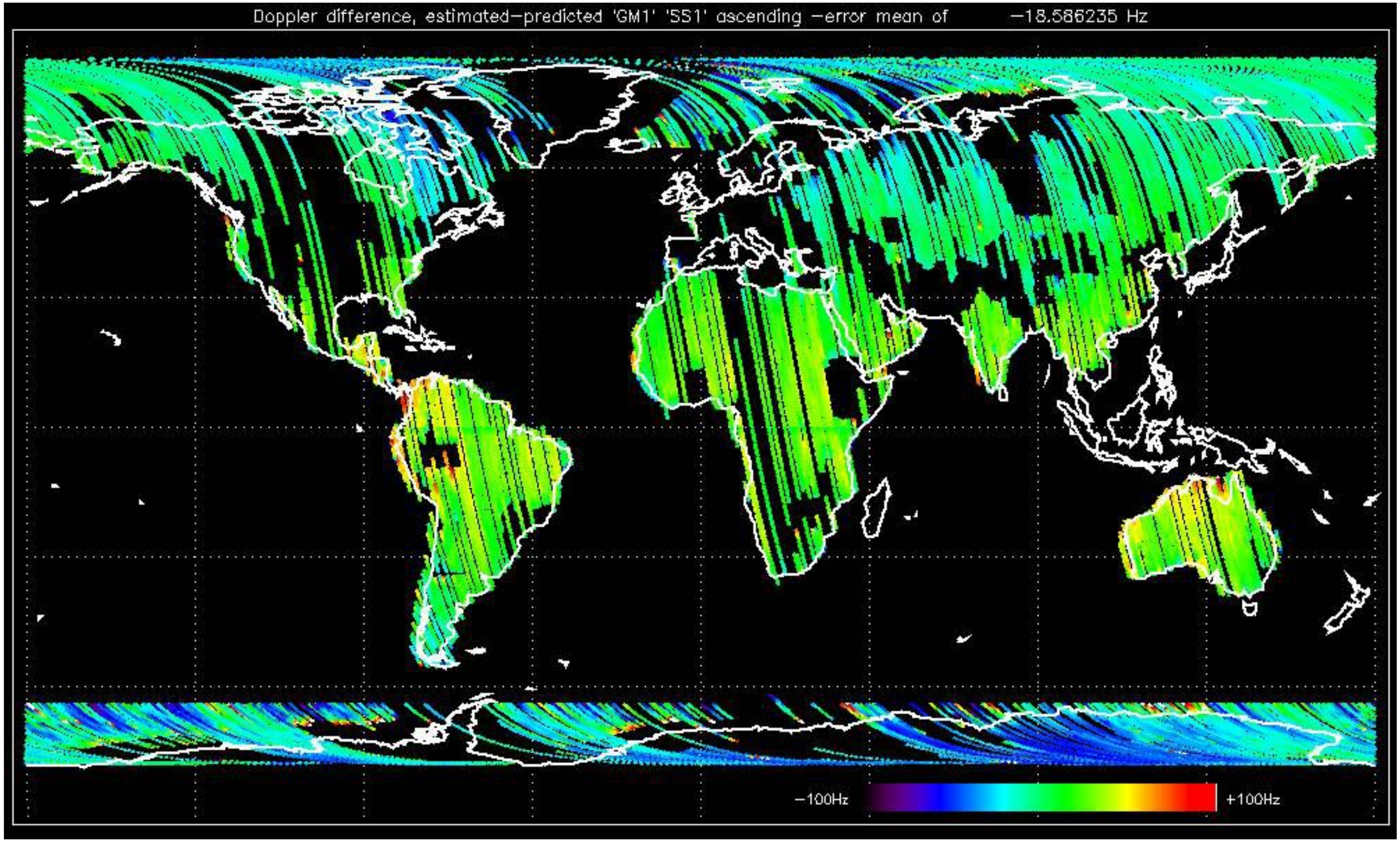

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

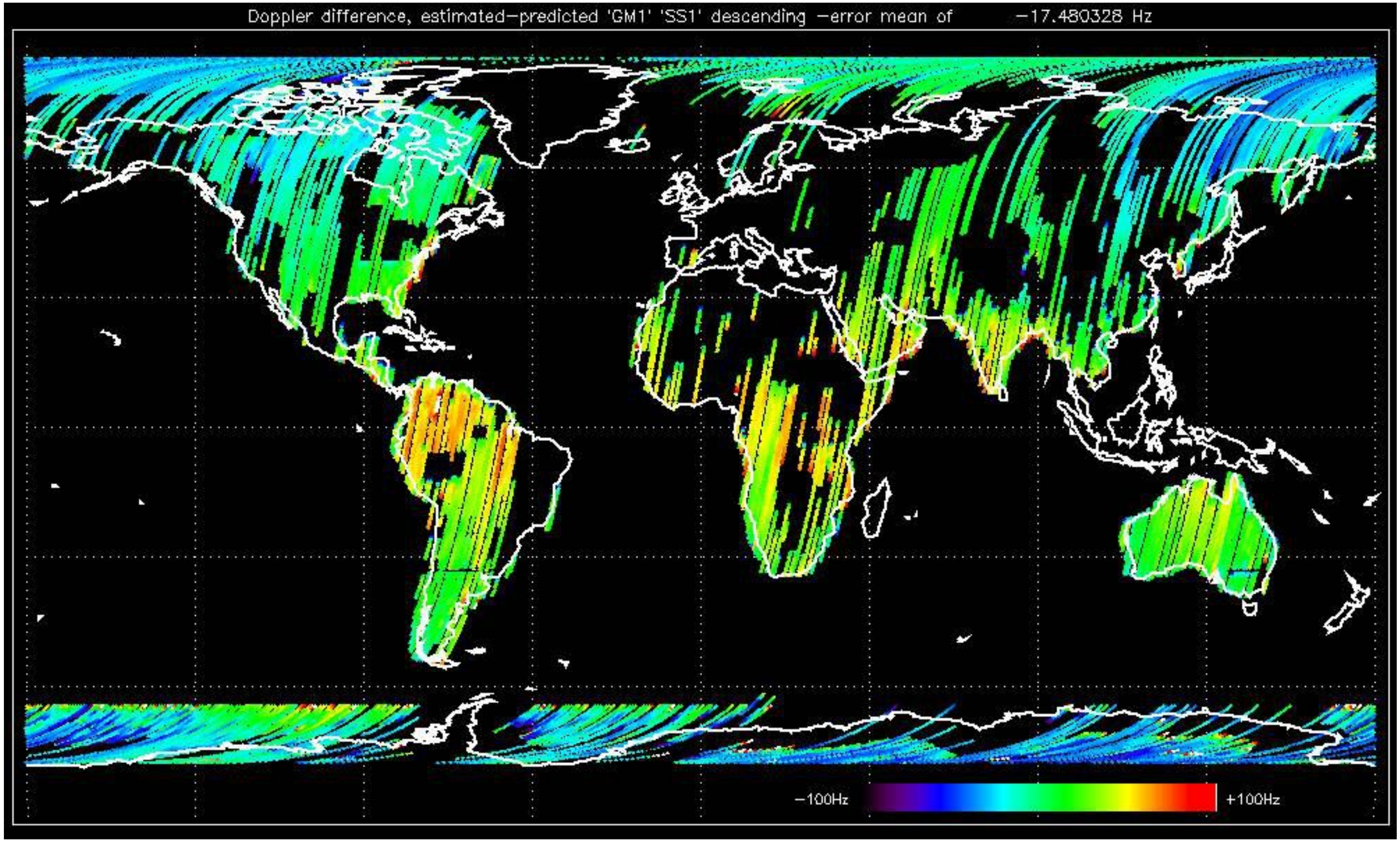

Doppler Bias[Hz]
400
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
10
25−Feb
Date

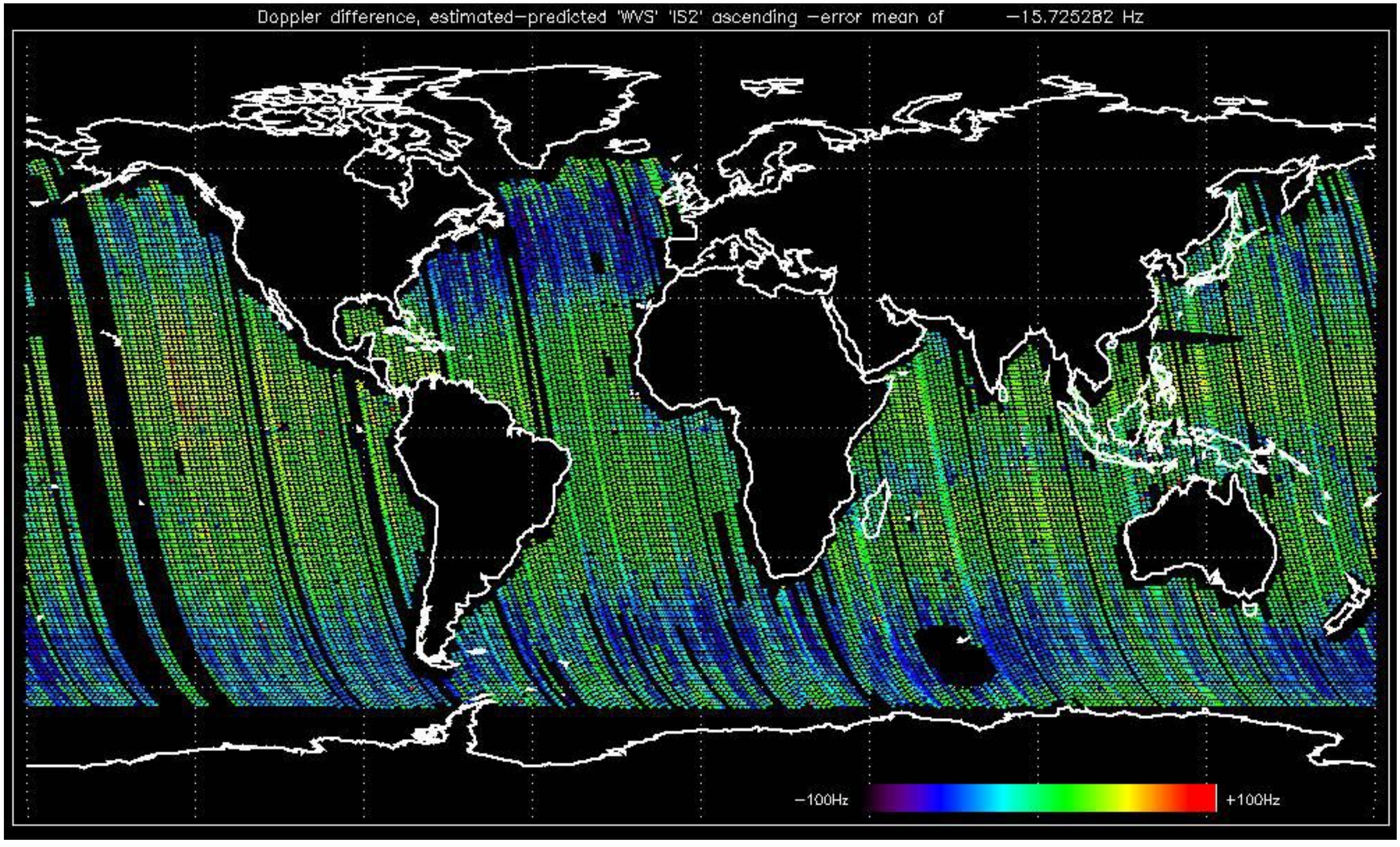

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

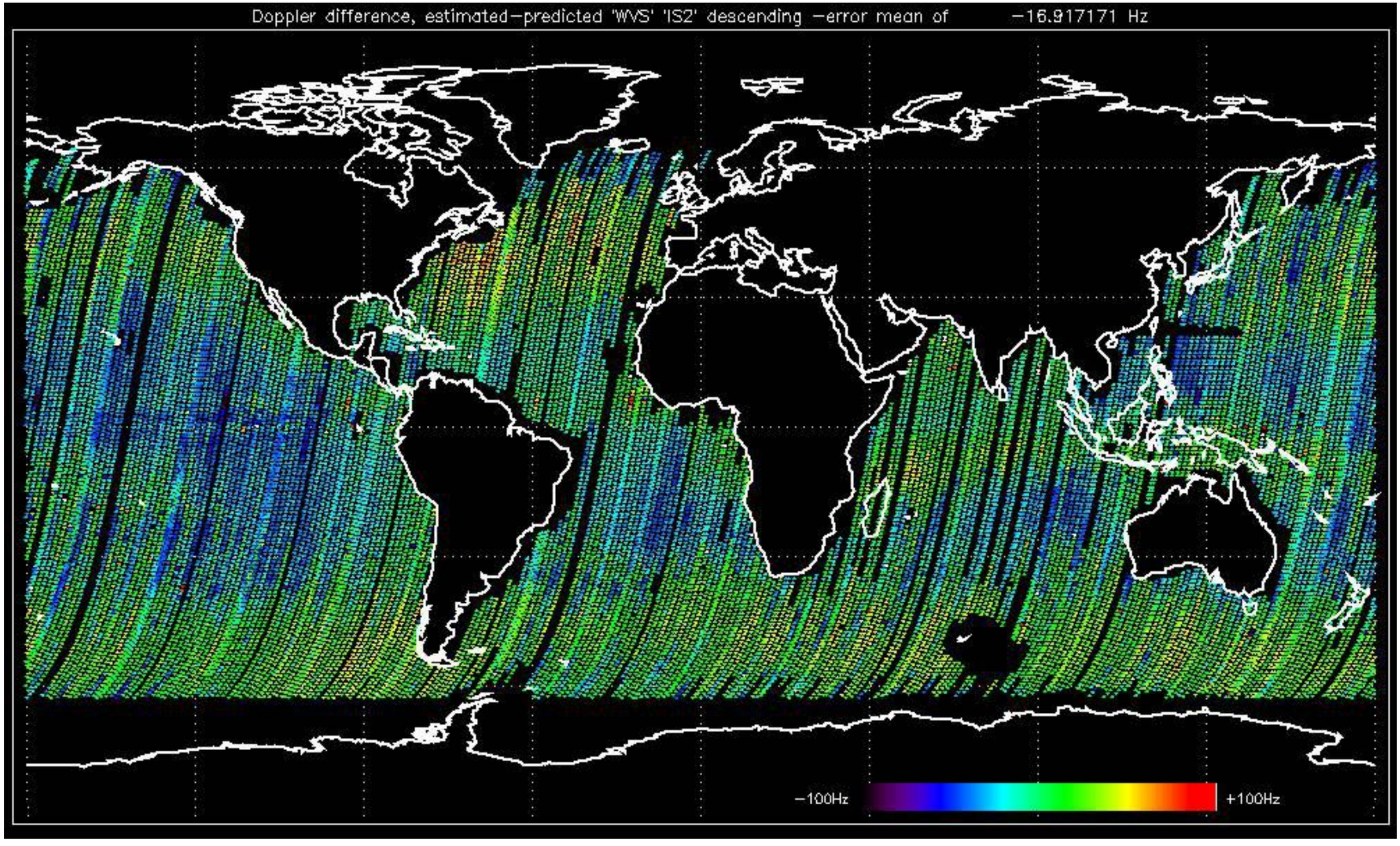

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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
25−Feb
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.586235 Hz
−100Hz
+100Hz

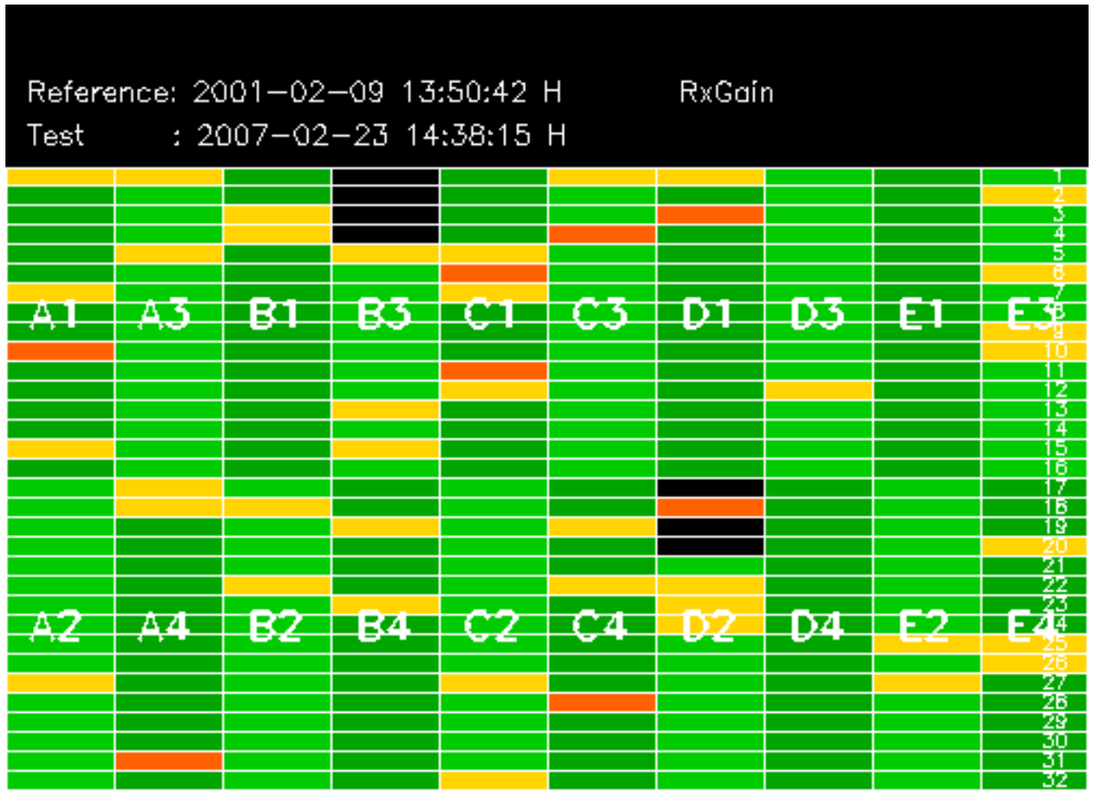

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −17.480328 Hz
−100Hz
+100Hz

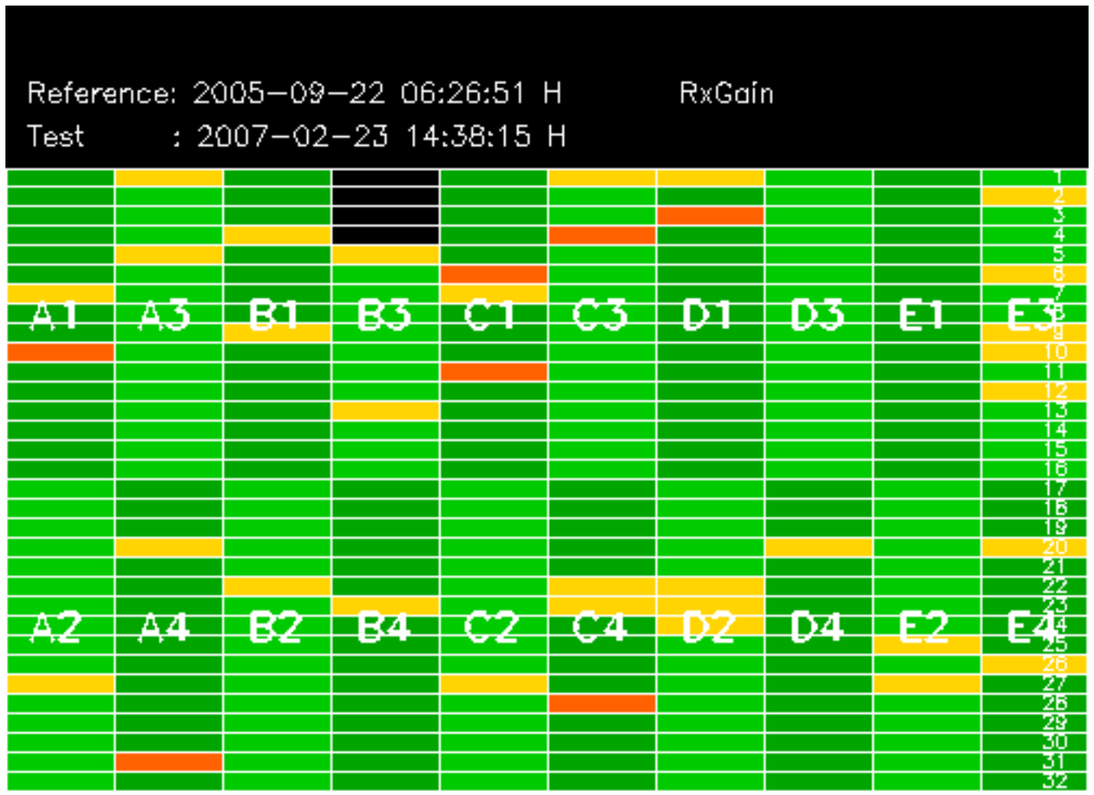

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −15.725282 Hz
−100Hz
+100Hz

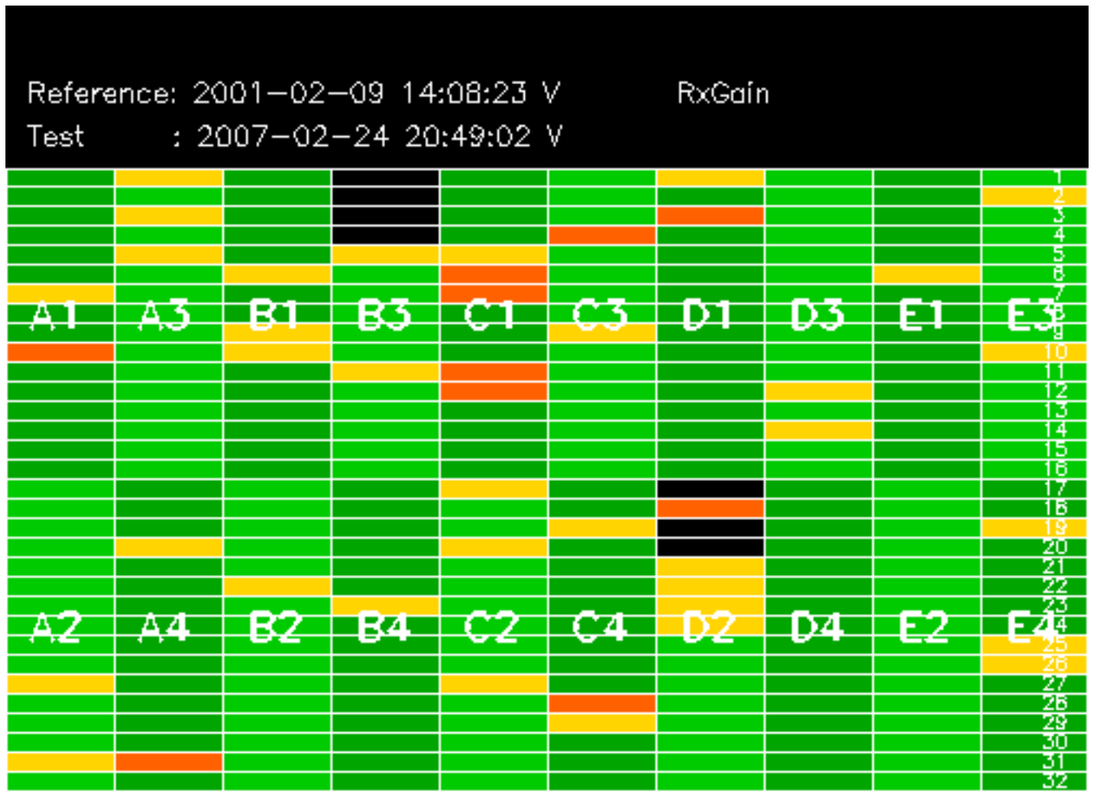

Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −16.917171 Hz
−100Hz
+100Hz

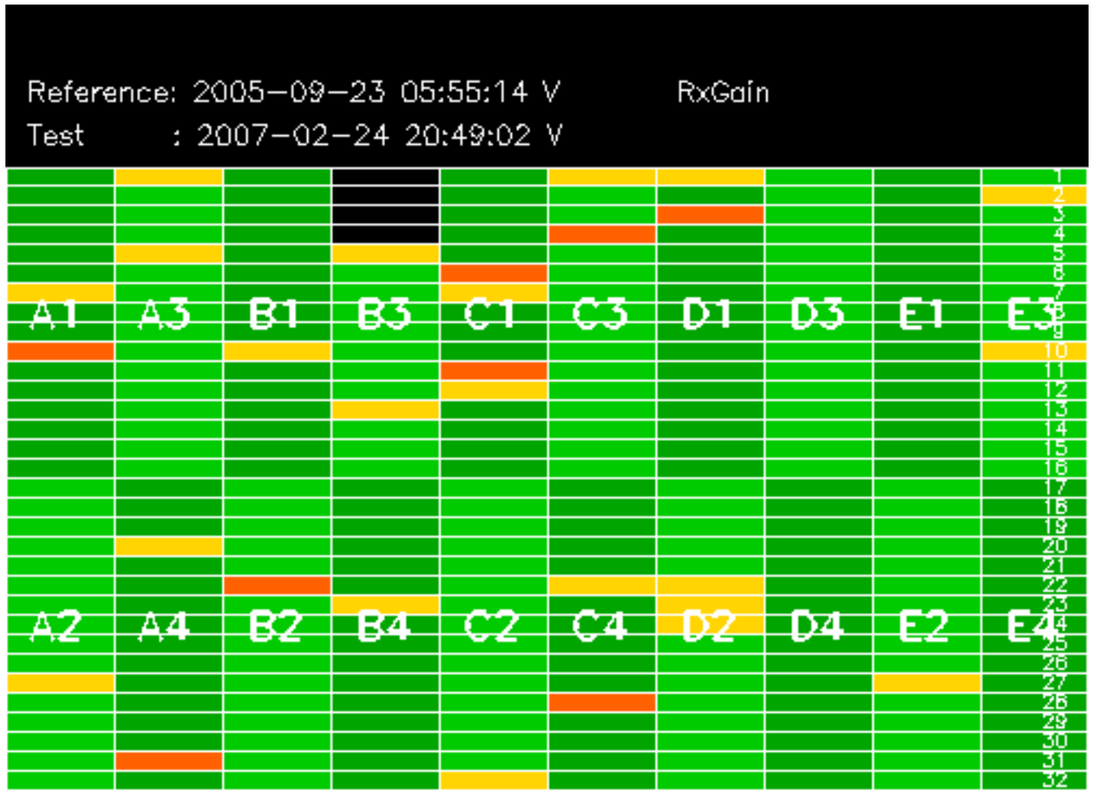
No anomalies observed on available MS products:

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
RxGain
Test : 2007-02-23 14:38:15 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
RxGain
Test : 2007-02-24 20:49:02 V
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 : 2007-02-24 20:49:02 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
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8
9
10
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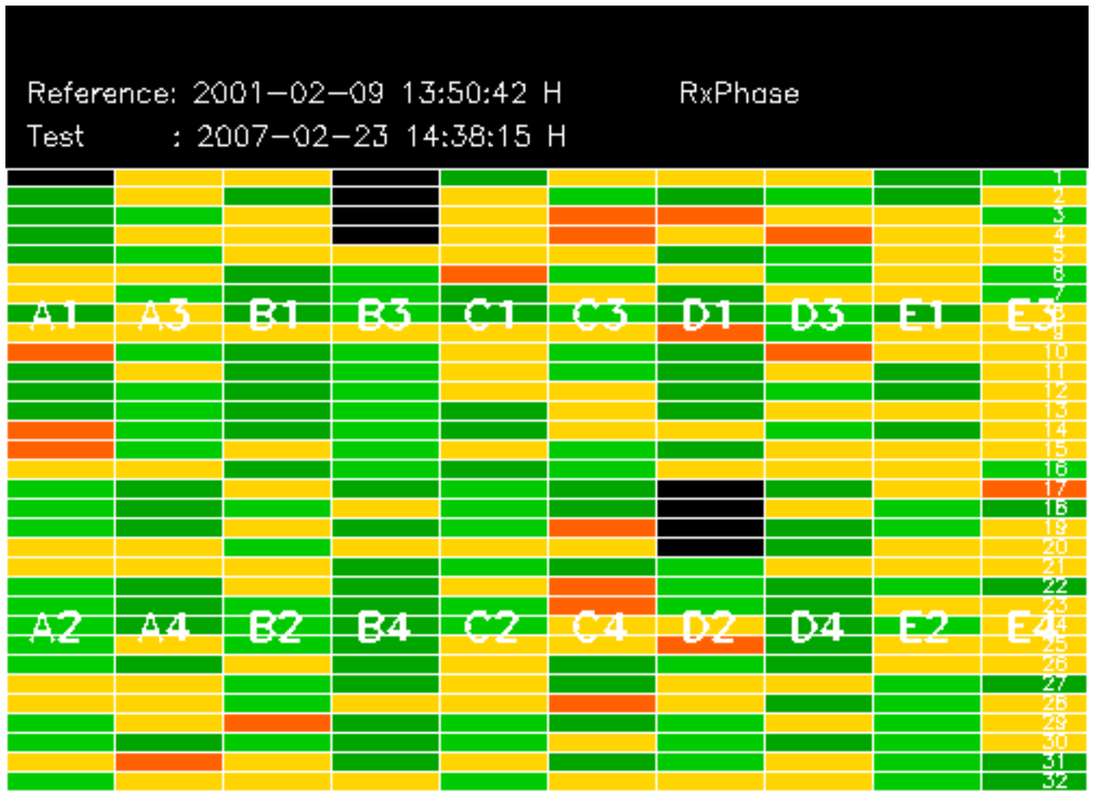
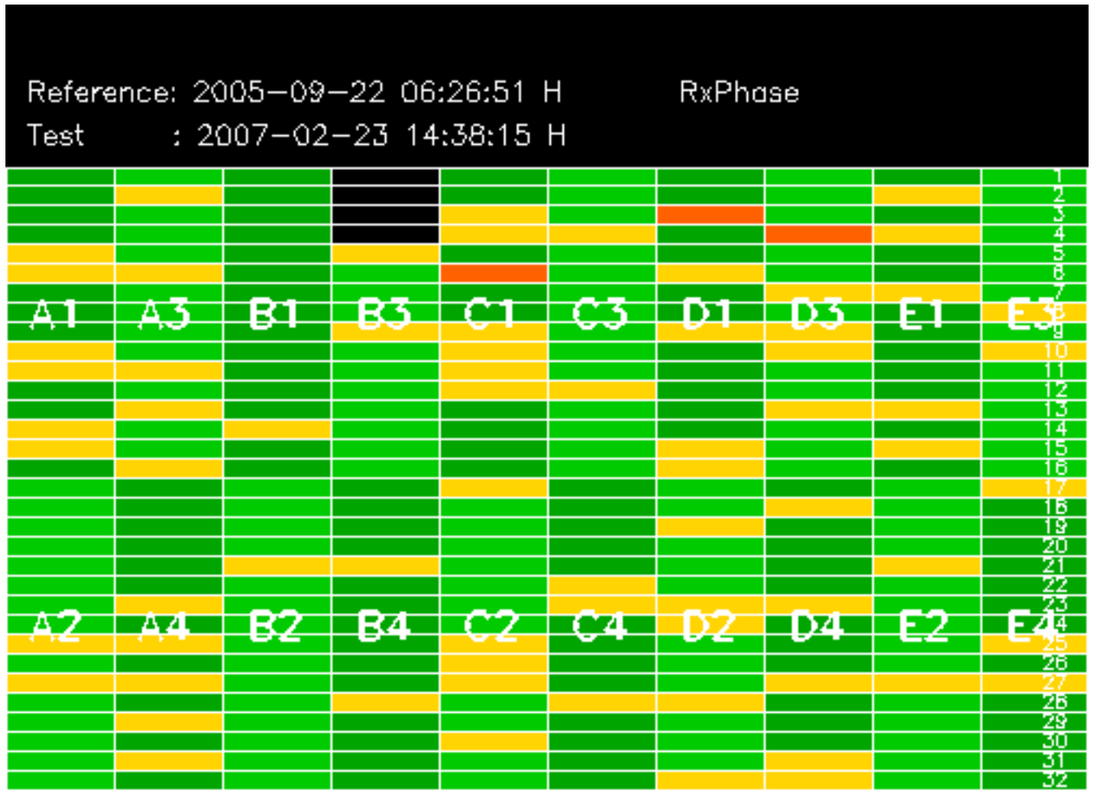
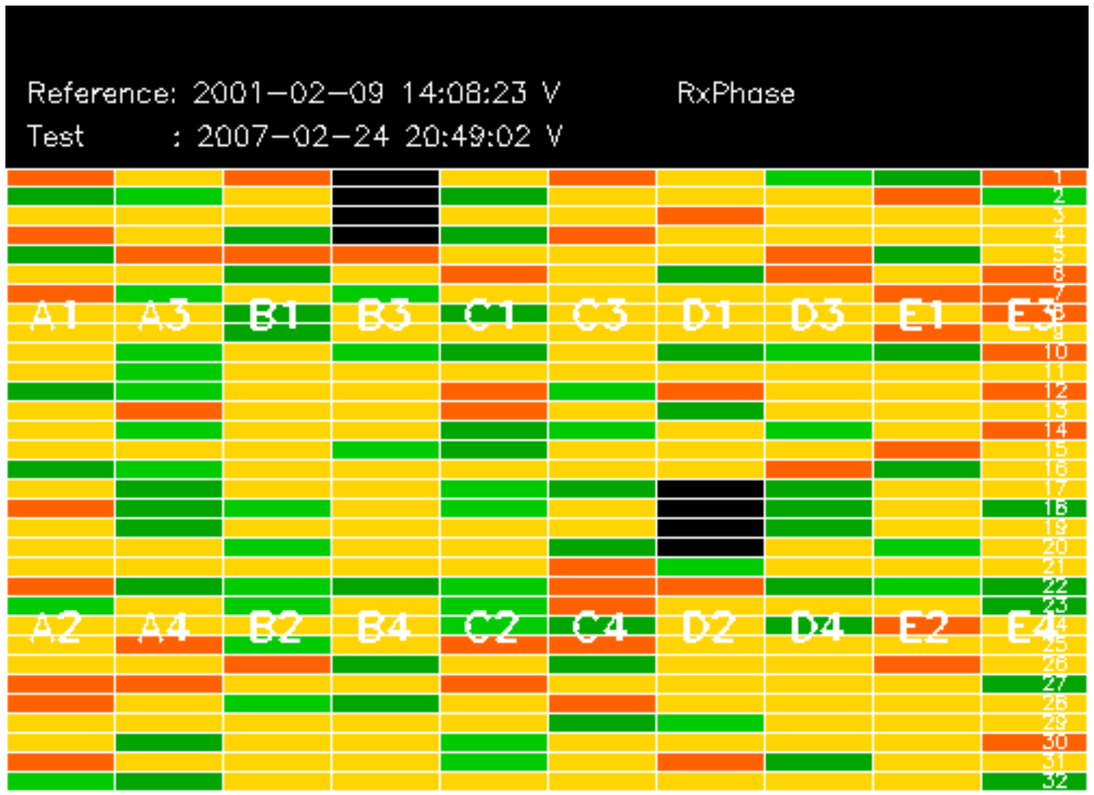
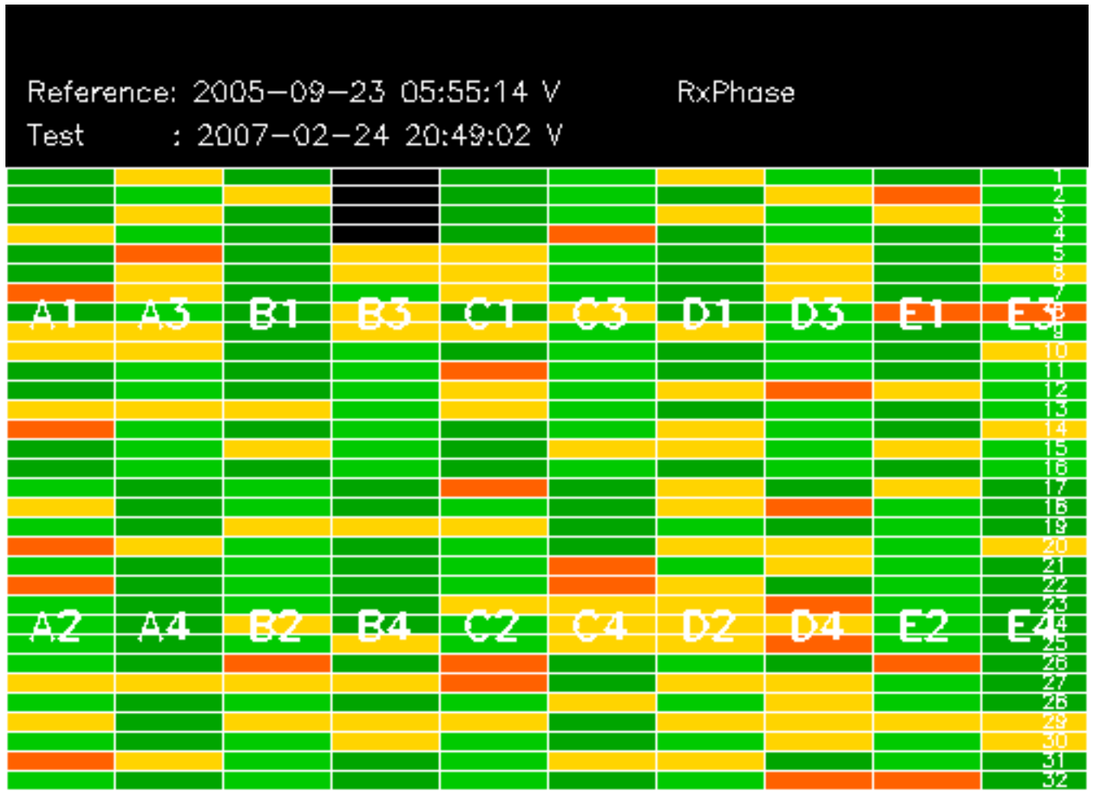
32


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


Reference: 2005-09-22 06:26:51 H
Test : 2007-02-23 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: 2001-02-09 14:08:23 V
Test : 2007-02-24 20:49:02 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 : 2007-02-24 20:49:02 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
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8
9
10
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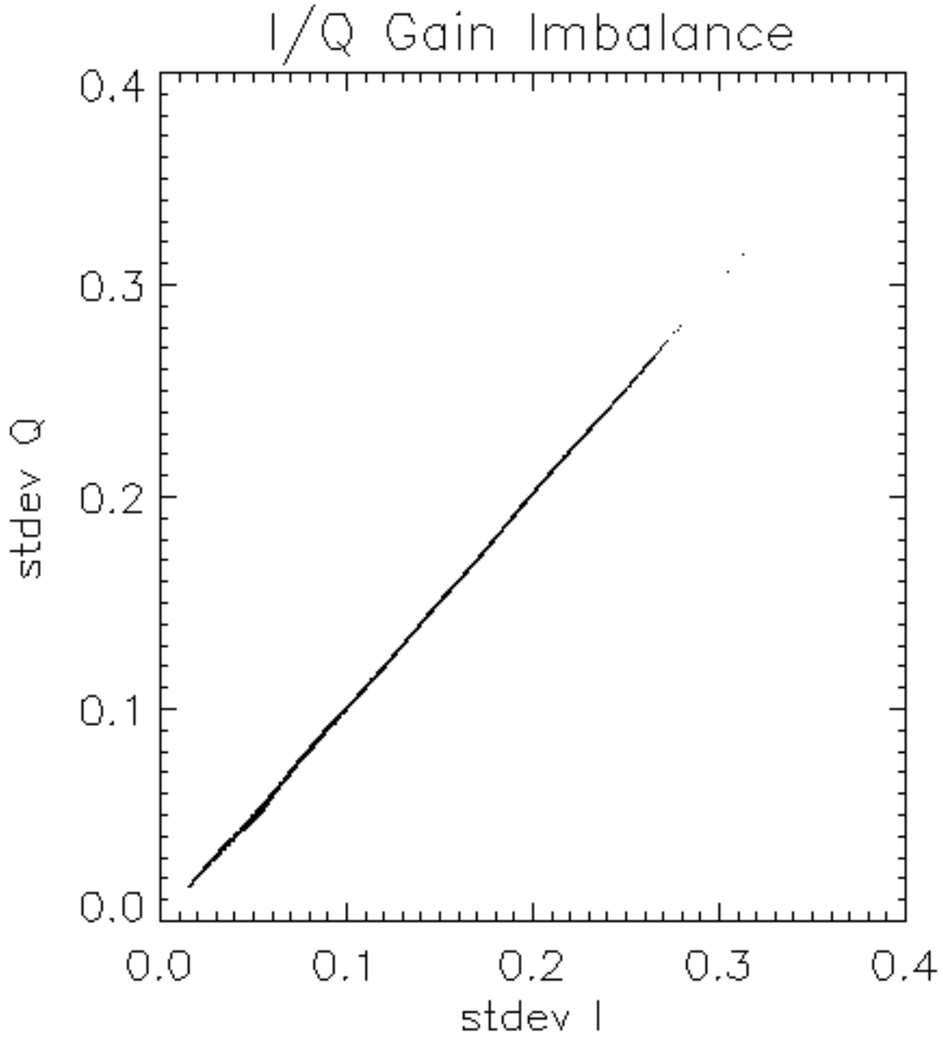
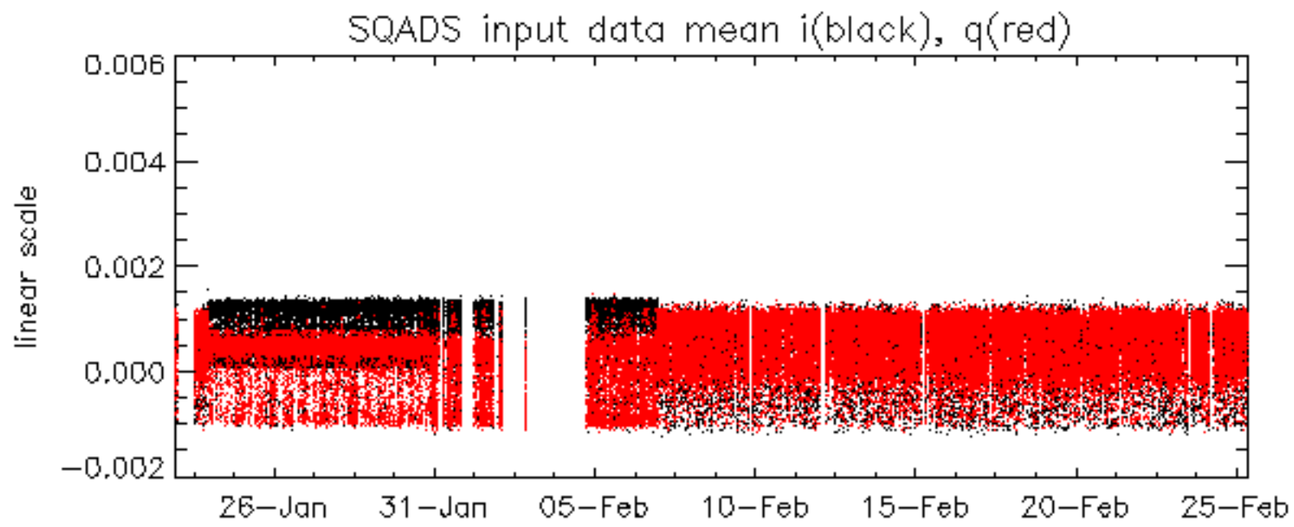
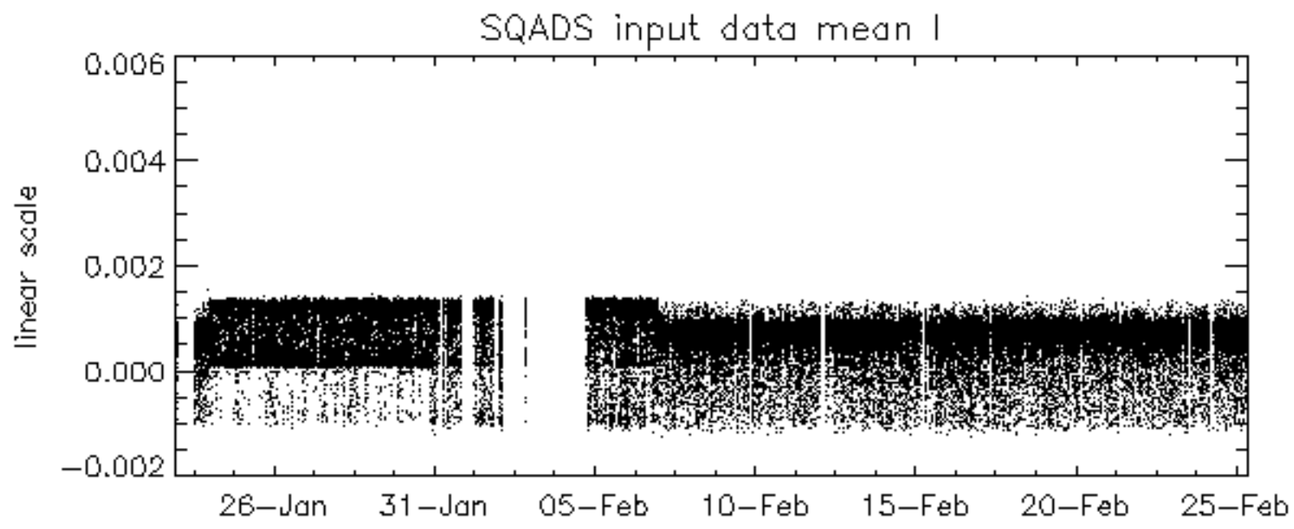
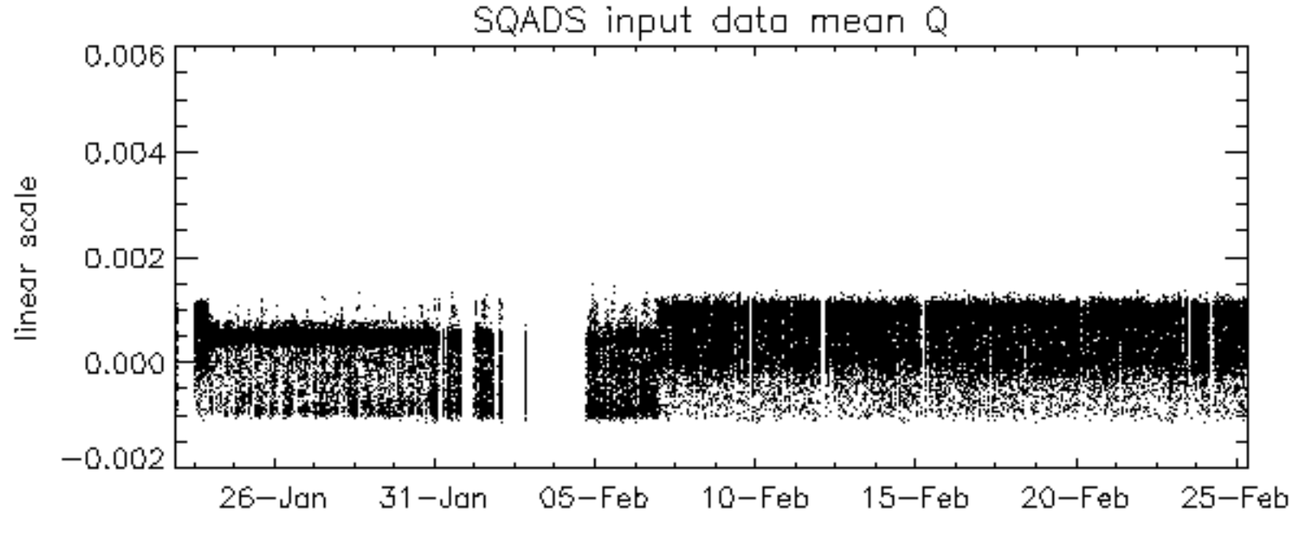
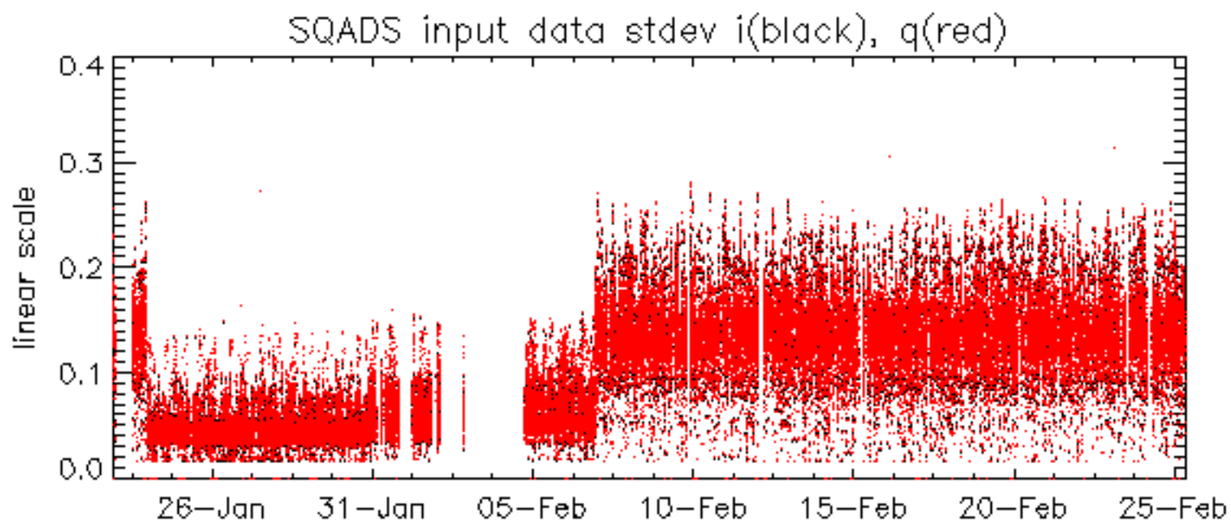
32

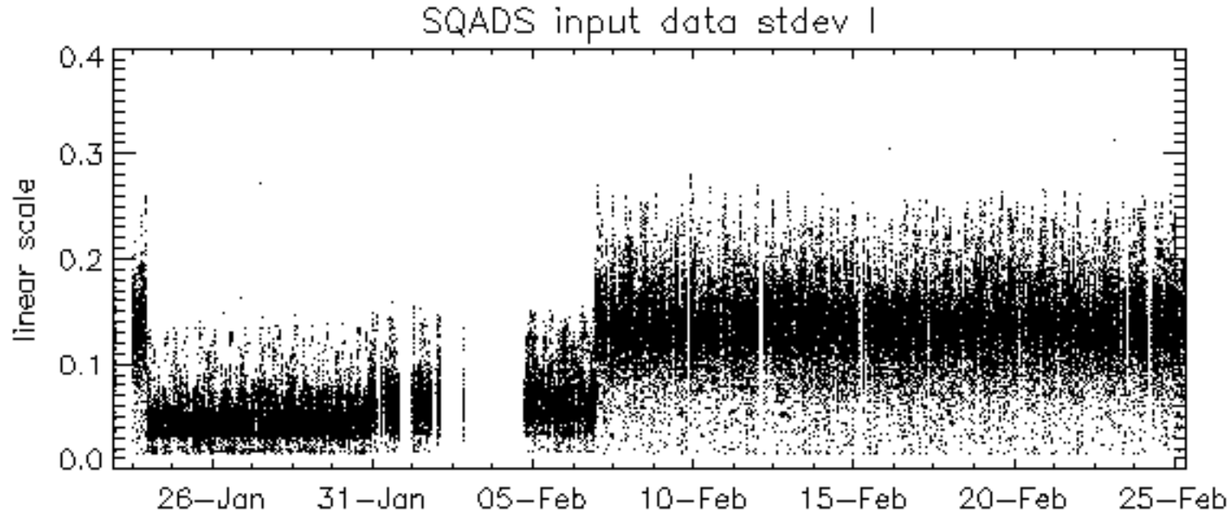

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

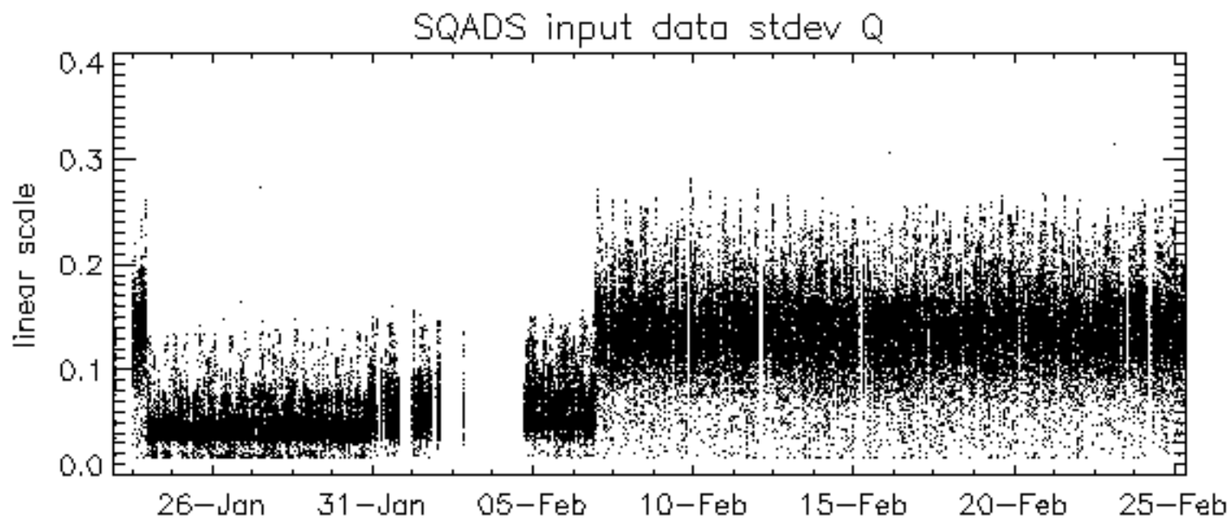

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb
25−Feb

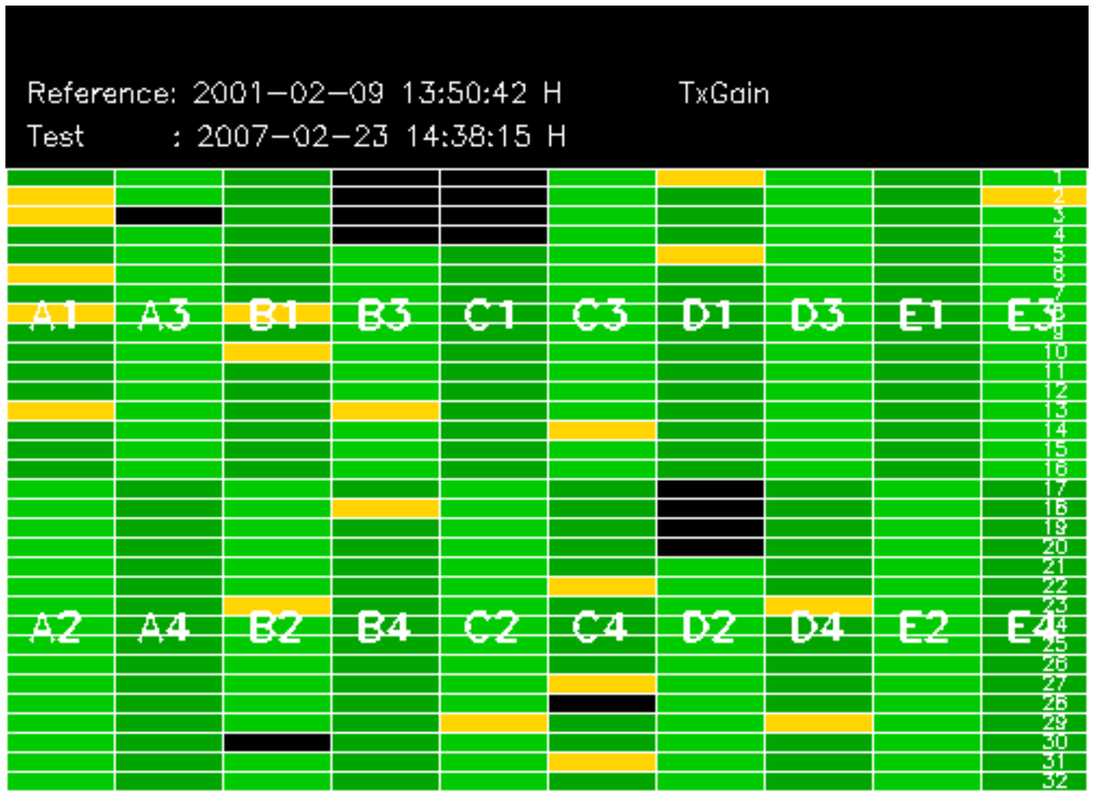

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb
25−Feb

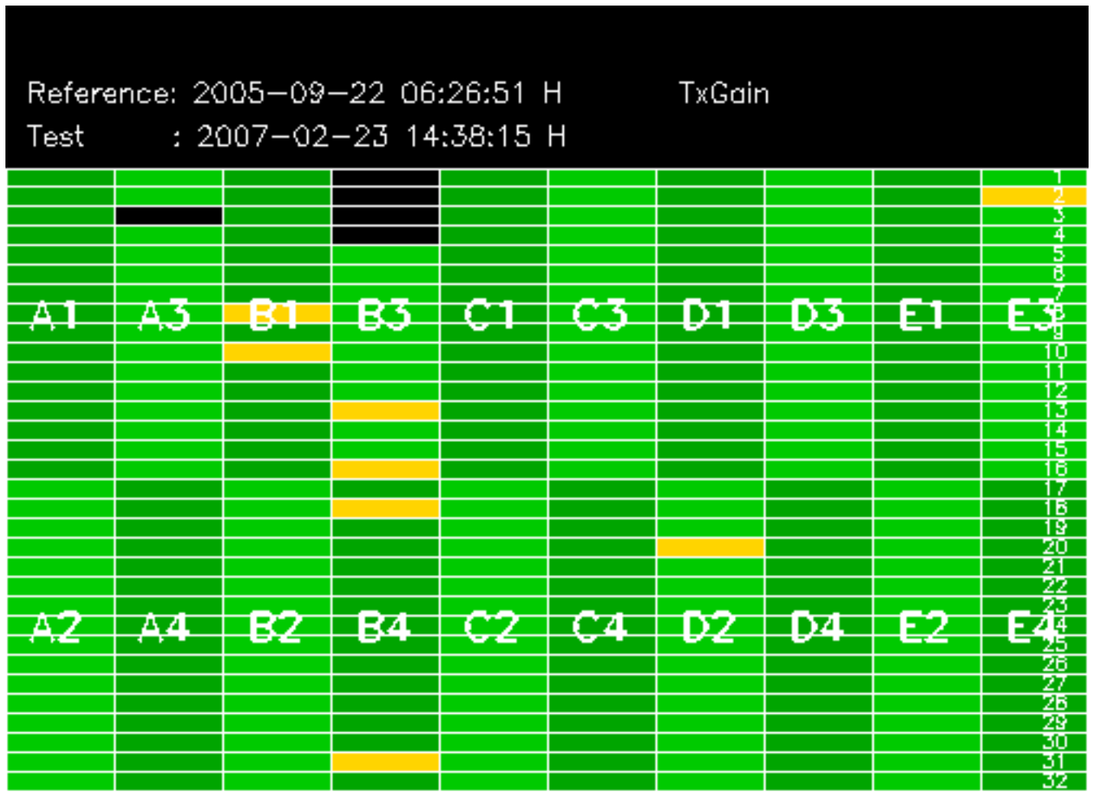

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb
25−Feb


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
25–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
25–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
25–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
1
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3
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18
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21
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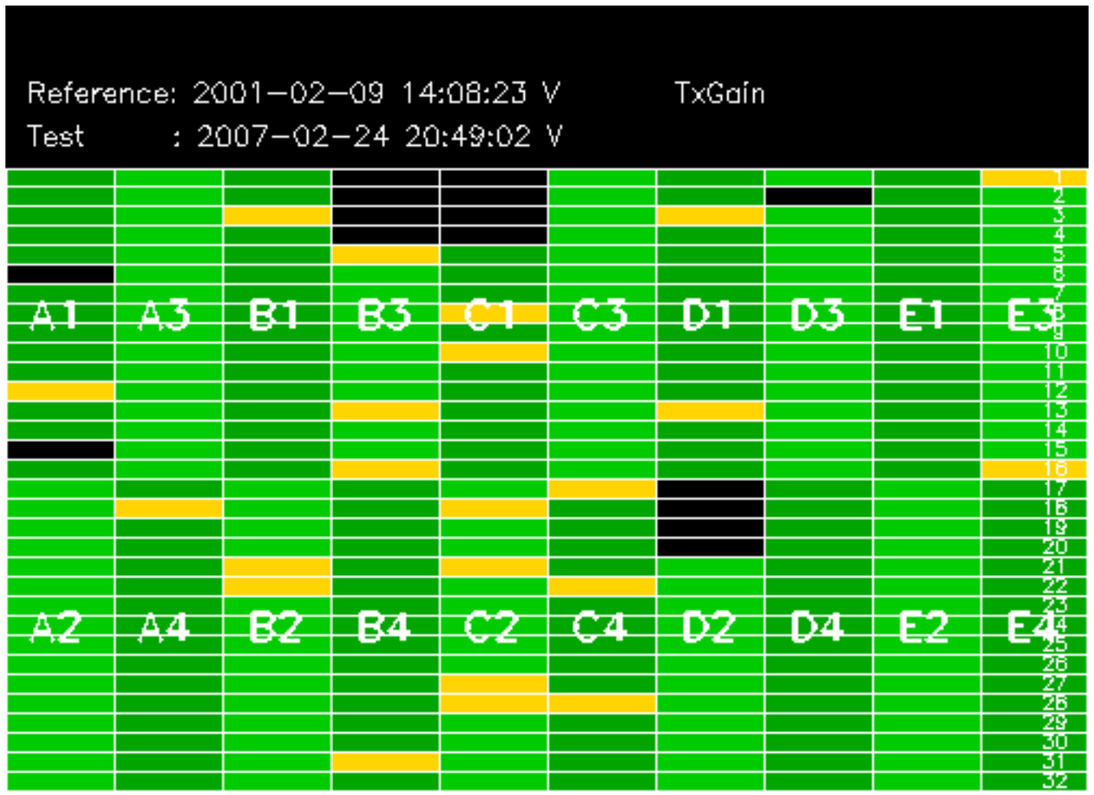
32


Reference: 2001-02-09 14:08:23 V
Test : 2007-02-24 20:49:02 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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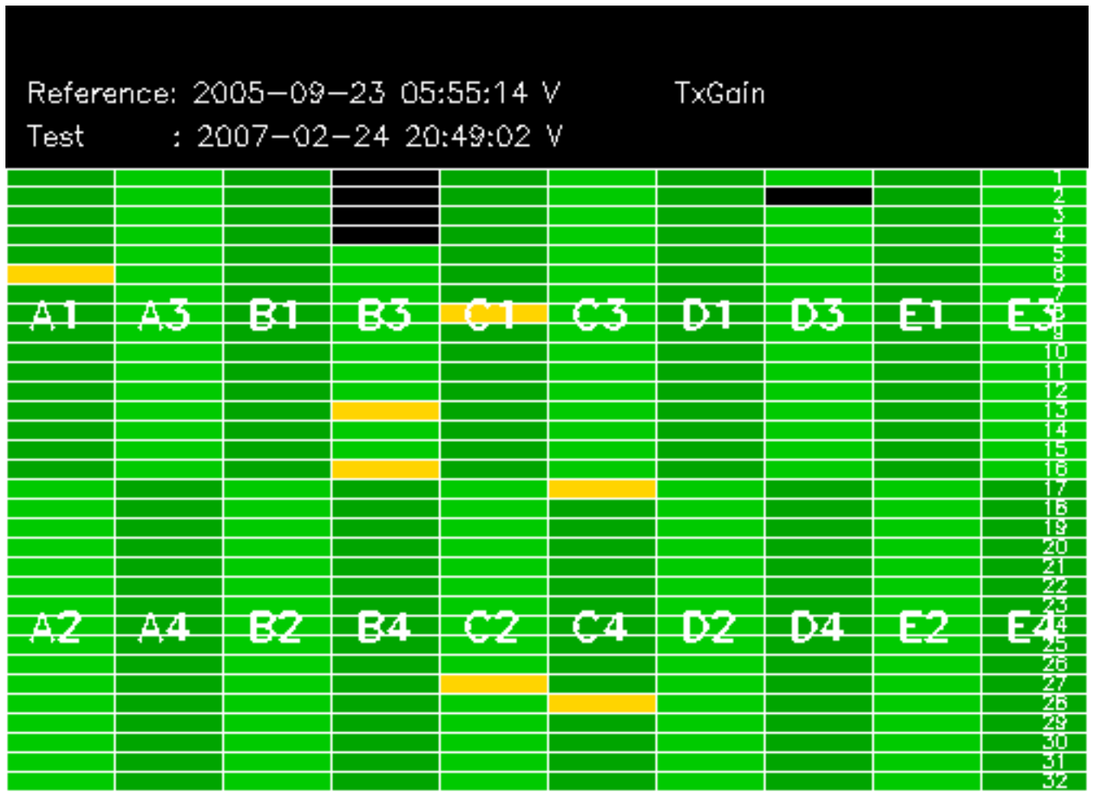
Reference: 2005-09-23 05:55:14 V
Test : 2007-02-24 20:49:02 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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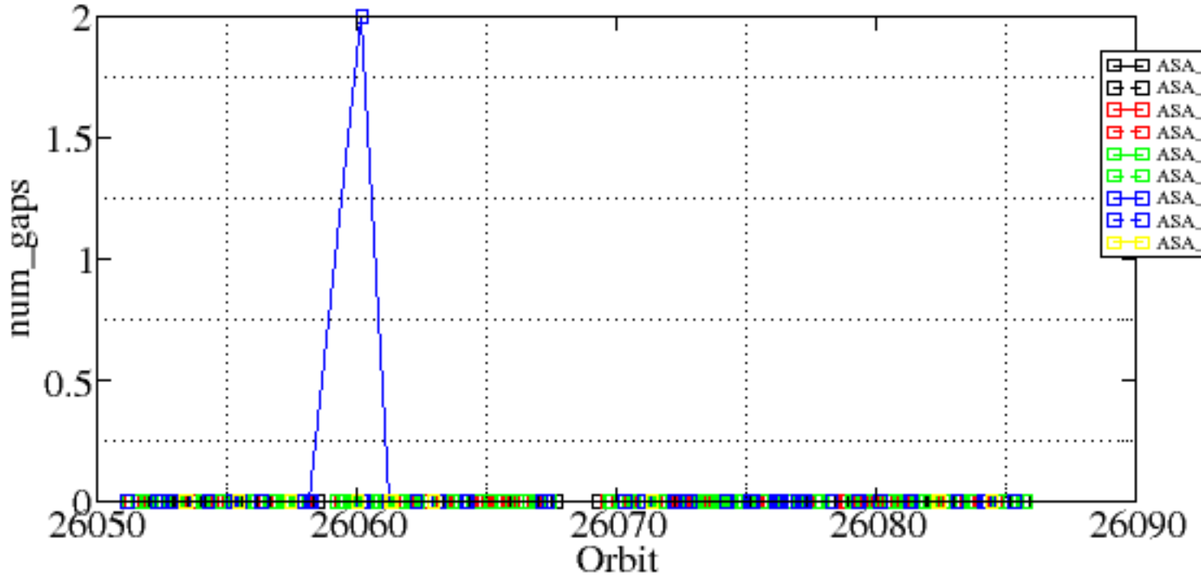
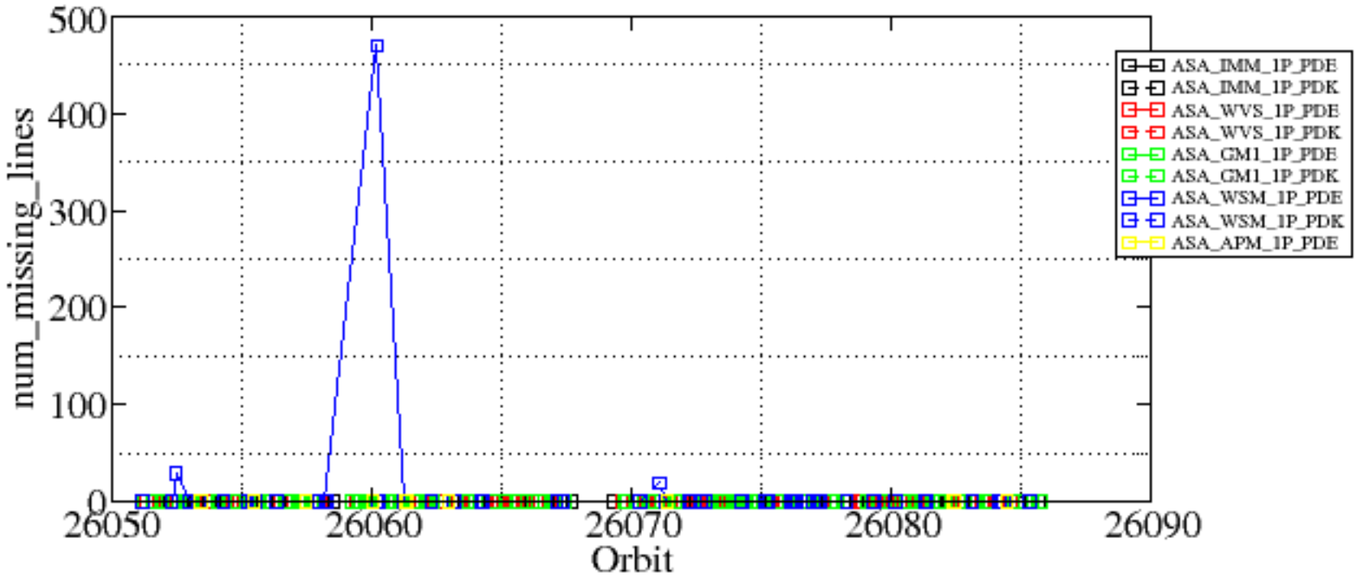
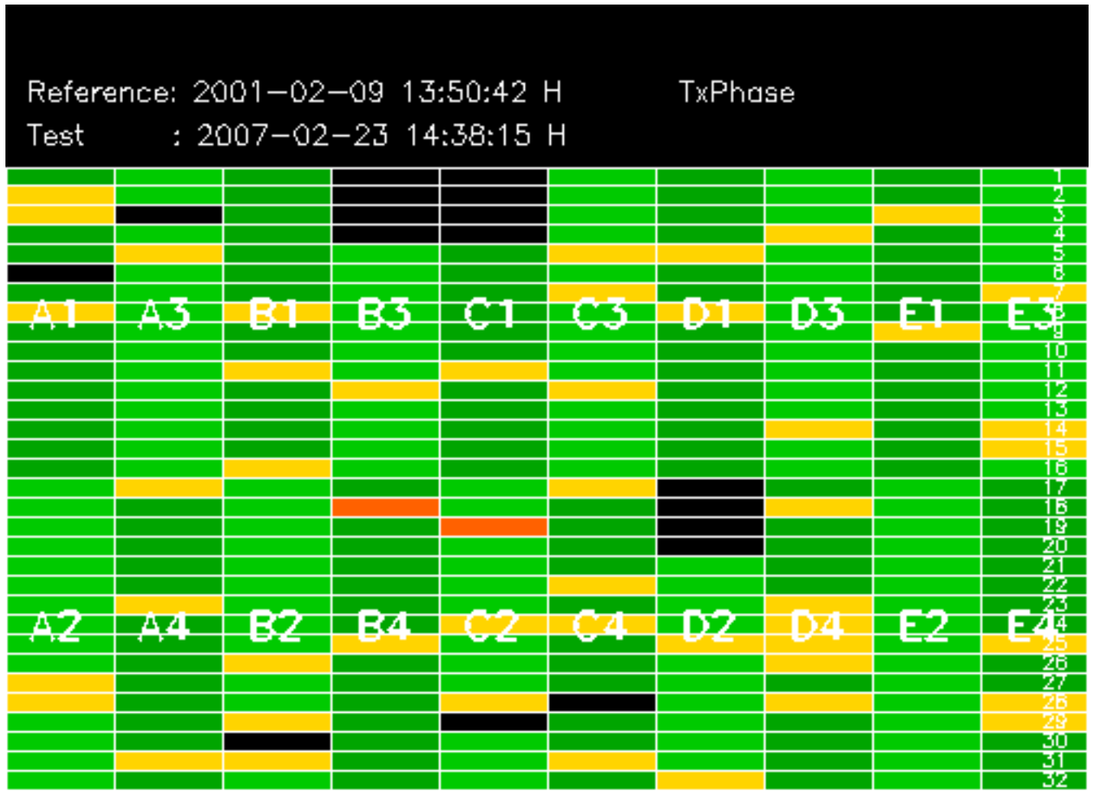
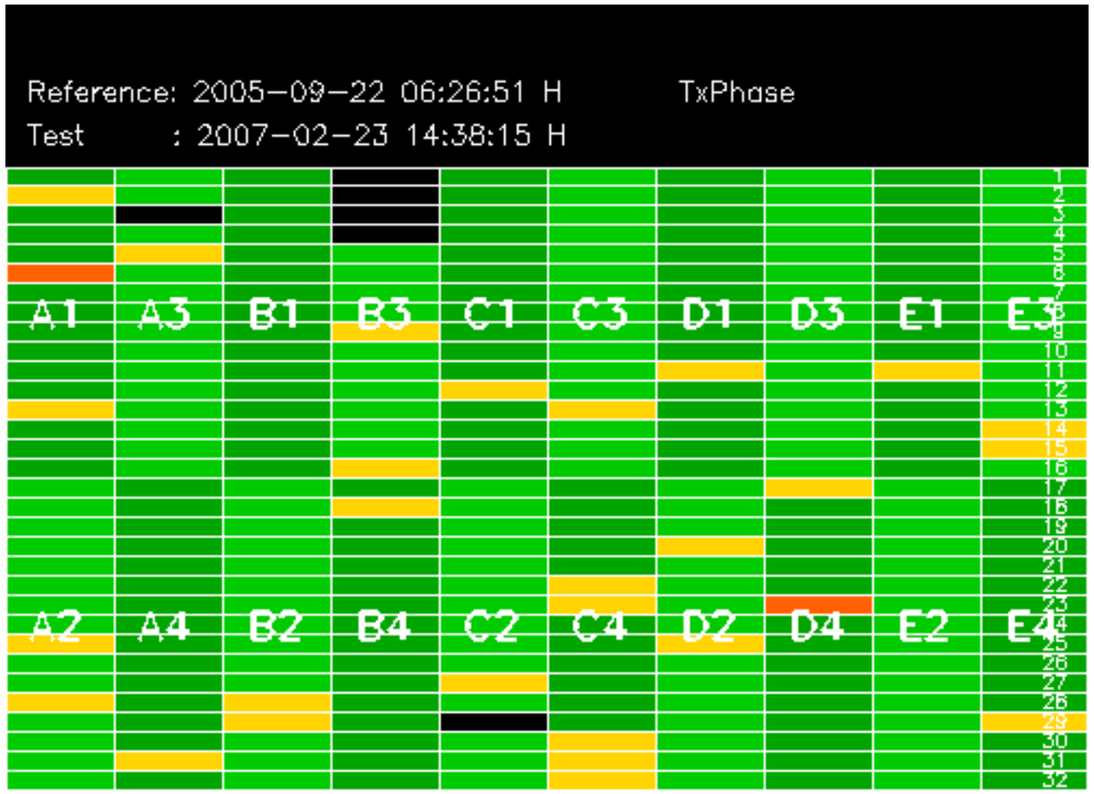
Summary of analysis for the last 3 days 2007022[345]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_WSM_1PNPDE20070223_023249_000000852055_00447_26052_8839.N1 </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_1PNPDK20070224_094429_000000852055_00466_26071_6572.N1 </td> <td>0 </td> <td>19 </td></tr>
</table>


num_gaps
2
1.5
1
0.5
0
26050
26060
26070
26080
26090
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
500
400
300
200
100
0
26050
26060
26070
26080
26090
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 : 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


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
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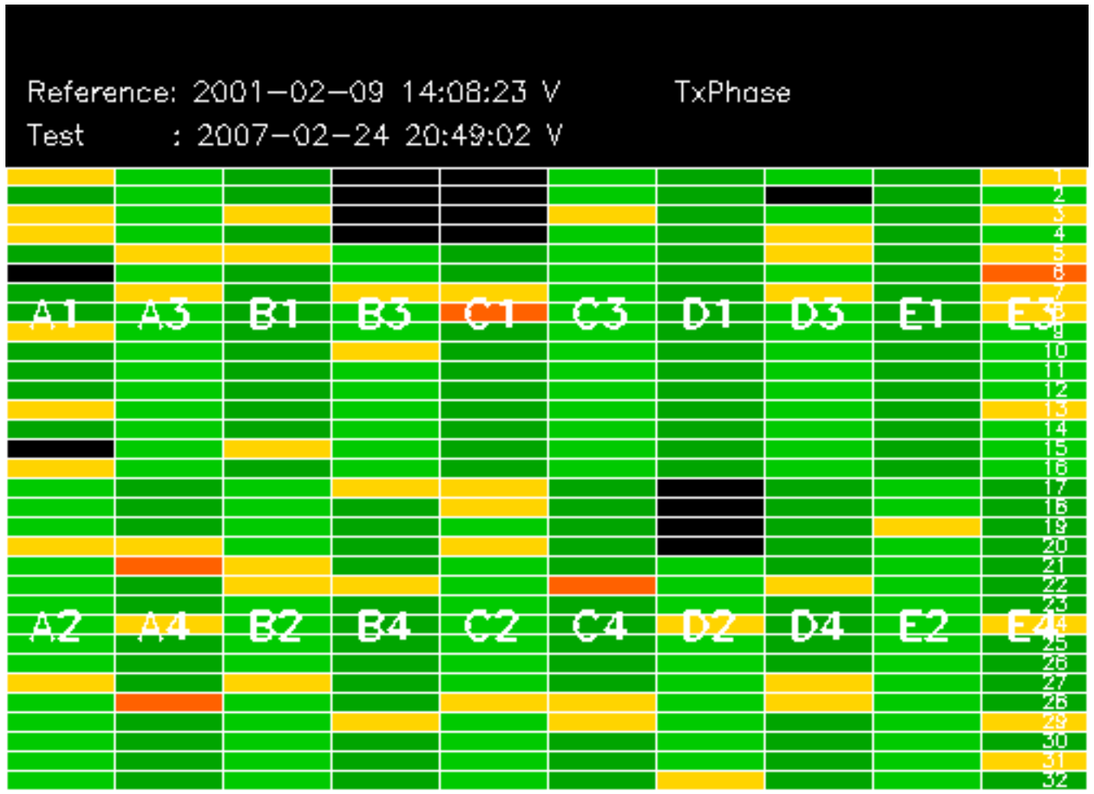
Reference: 2001-02-09 14:08:23 V
Test : 2007-02-24 20:49:02 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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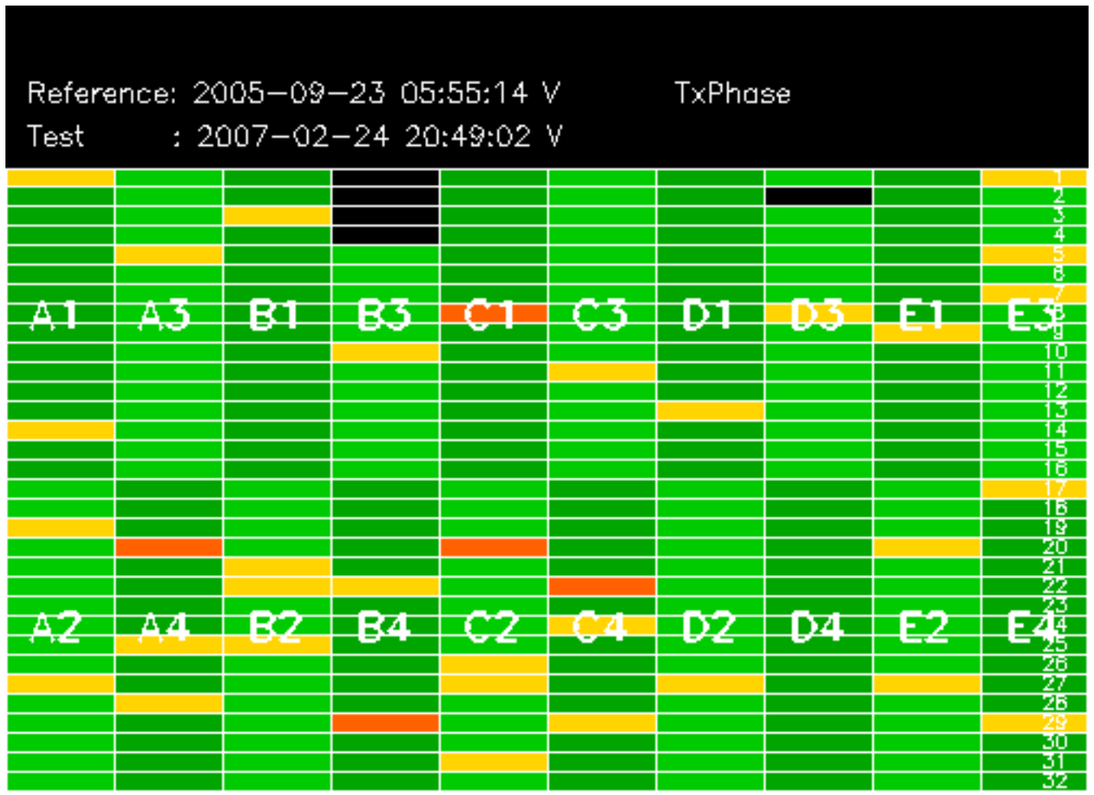
Reference: 2005-09-23 05:55:14 V
Test : 2007-02-24 20:49:02 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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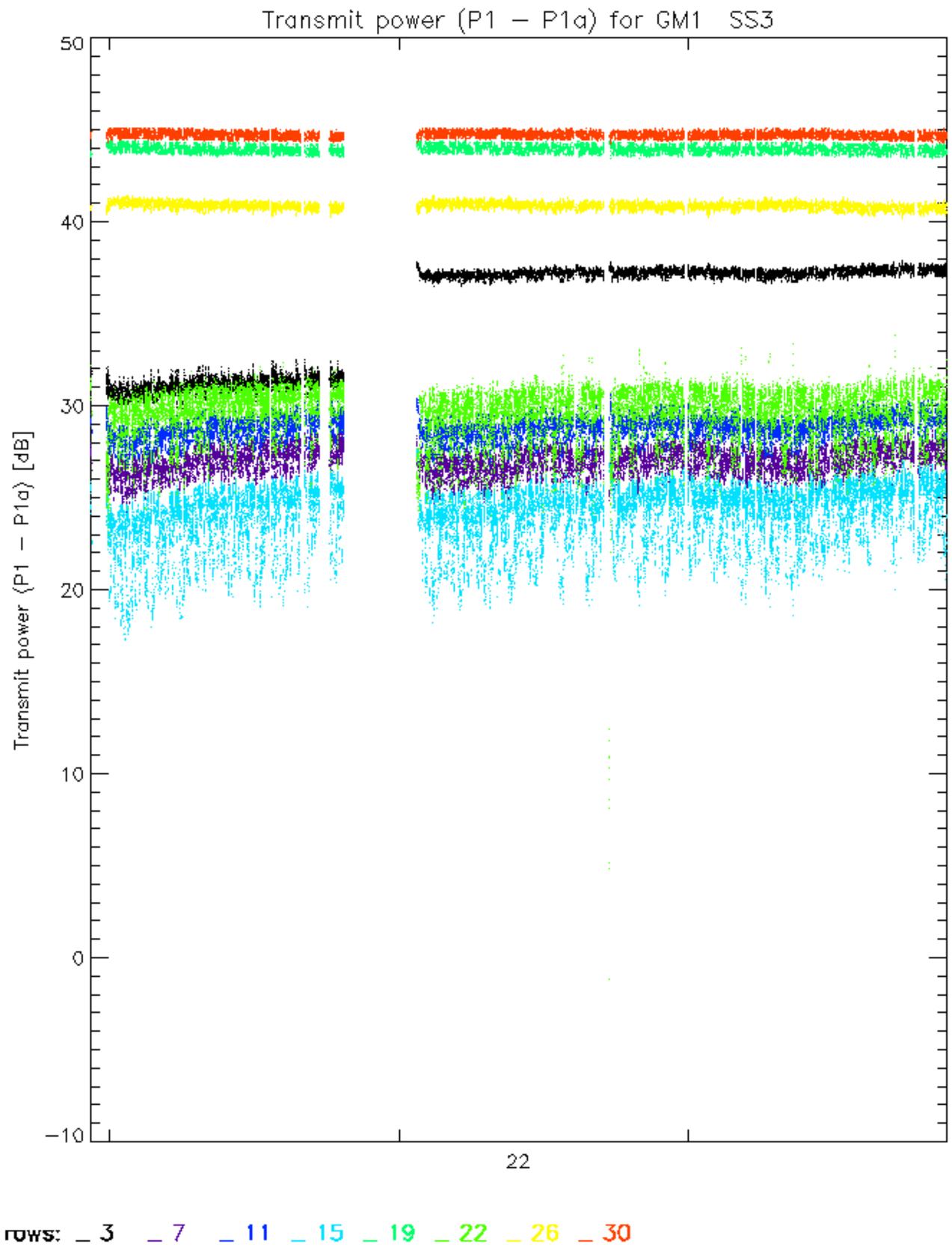
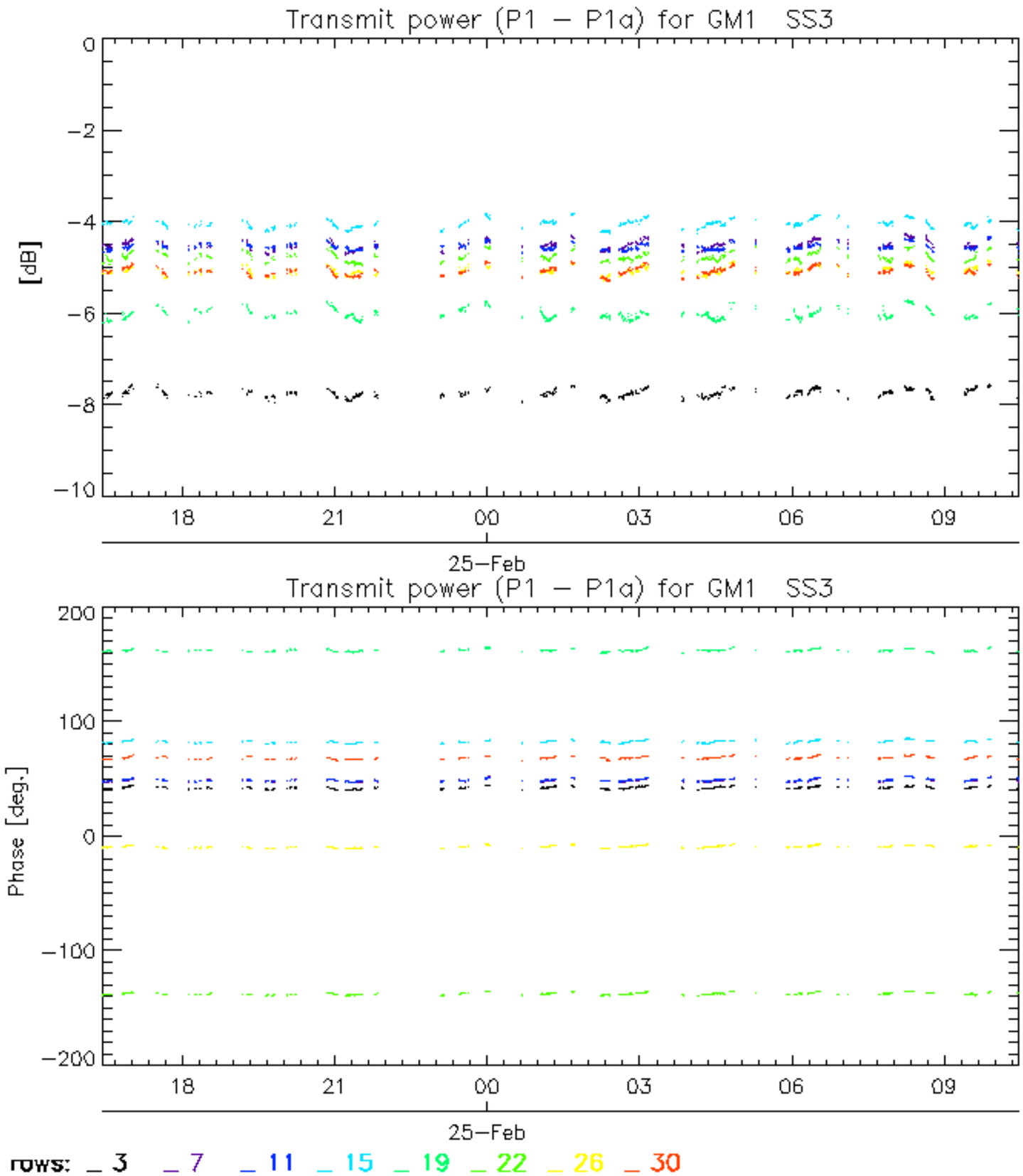
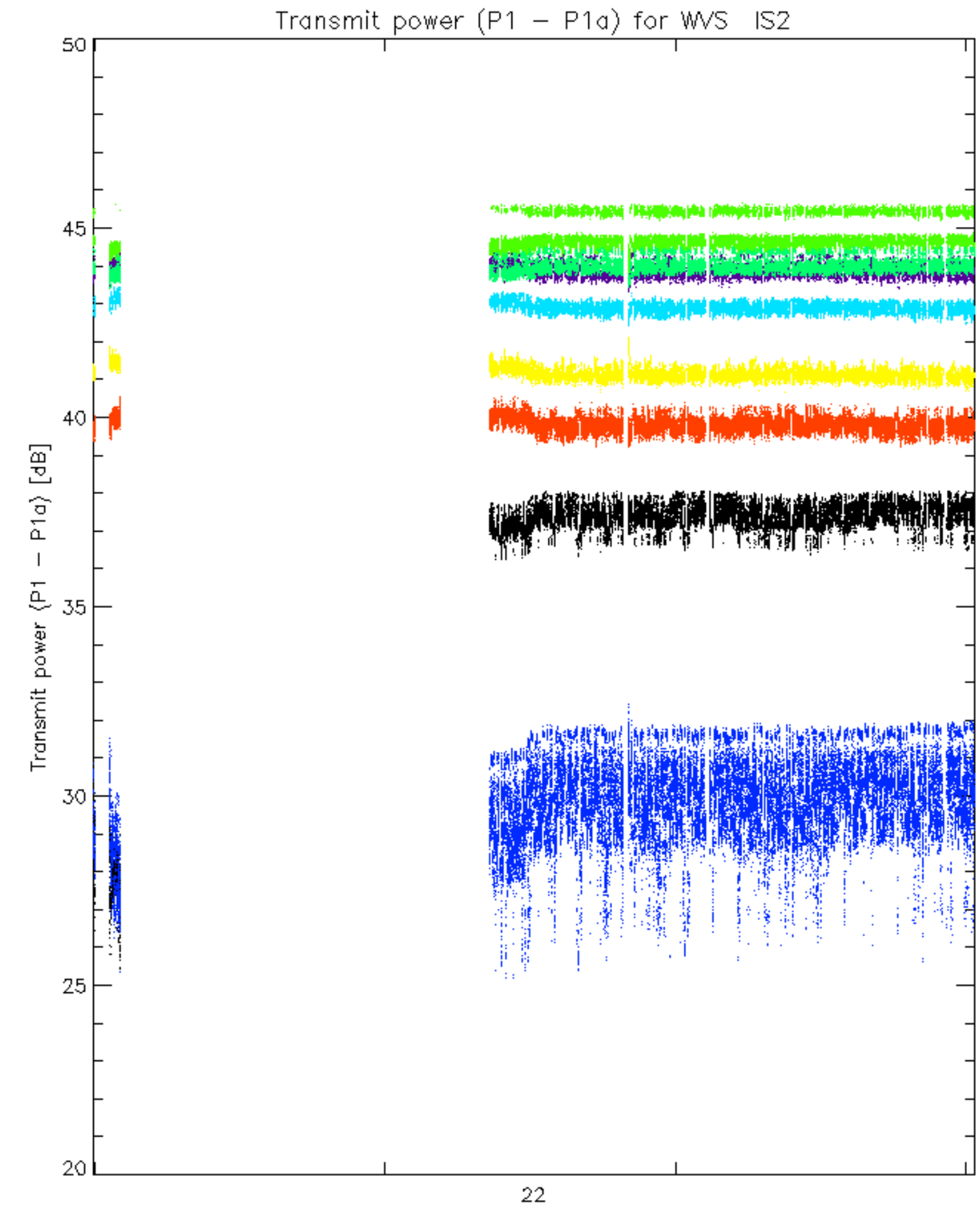
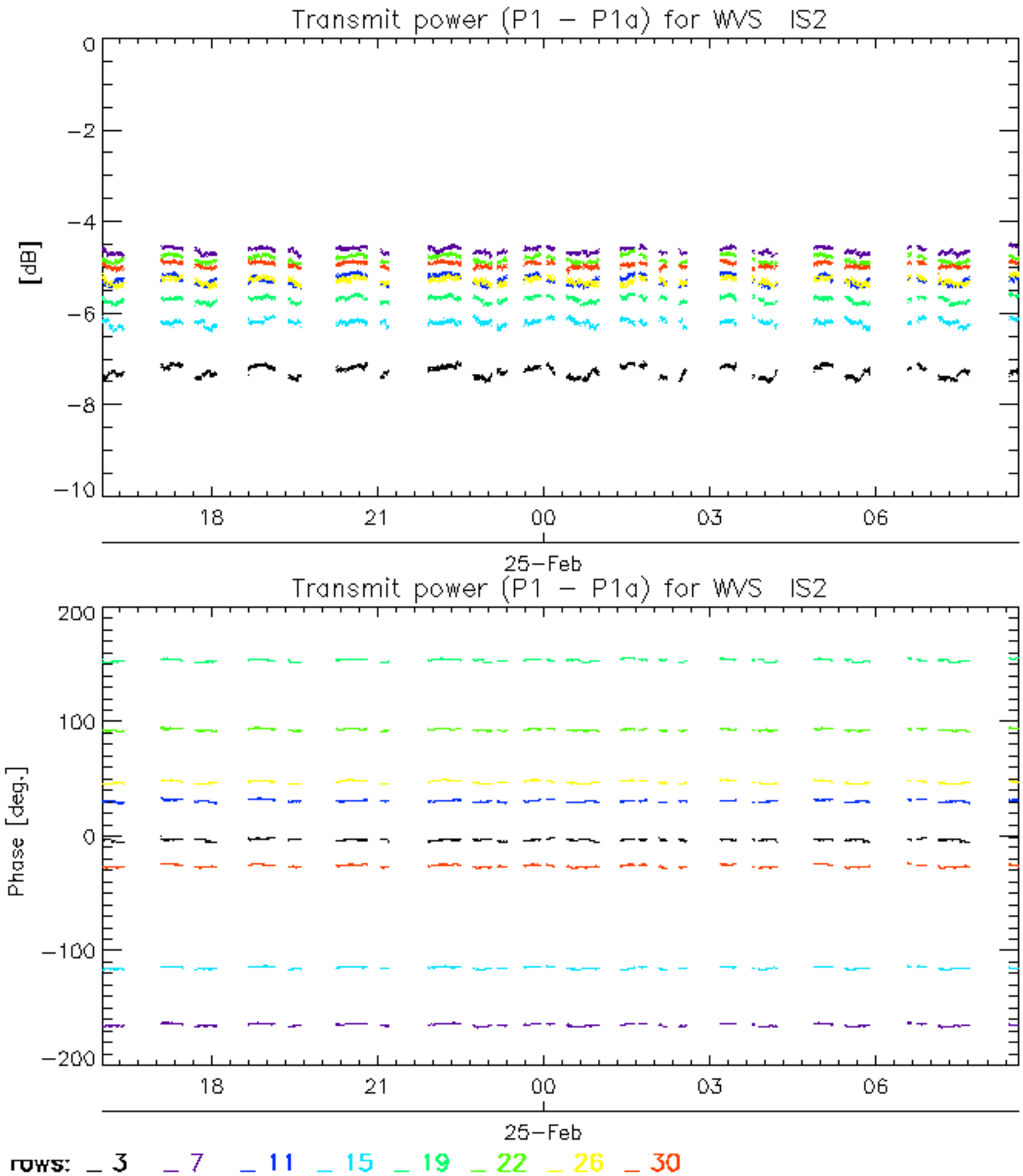
32


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
25–Feb
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
09
25–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
25–Feb
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
25–Feb
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.