PRELIMINARY REPORT OF 060220

last update on Mon Feb 20 16:44:50 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 2006-02-19 00:00:00 to 2006-02-20 16:44:50

PDHS-K					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	47	0	14	0	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	47	0	14	0	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	47	0	14	0	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	47	0	14	0	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	46	44	41	6	52
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	46	44	41	6	52
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	46	44	41	6	52
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	46	44	41	6	52

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	20060218 064357
H	20060219 061220

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	-4.007497	0.008819	0.024856
7	P1	-3.003246	0.012033	0.032823
11	P1	-4.089577	0.022242	0.045592
15	P1	-6.062708	0.019442	0.003701
19	P1	-3.264355	0.006606	-0.026253
22	P1	-4.469840	0.017337	0.047613
26	P1	-4.188445	0.012955	0.025876
30	P1	-5.773196	0.010308	0.013507
3	P1	-16.918911	0.261682	-0.183514
7	P1	-16.664614	0.119334	-0.017399
11	P1	-16.584593	0.324371	0.171763
15	P1	-13.141323	0.111459	0.246695
19	P1	-13.897594	0.066532	0.010674
22	P1	-15.738918	0.538102	0.456184
26	P1	-15.756423	0.263212	-0.051984
30	P1	-16.557356	0.294731	0.237019

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.512672	0.091367	0.209771
7	P2	-22.420996	0.094577	0.066283
11	P2	-16.256828	0.100554	0.051229
15	P2	-7.186285	0.101673	0.063126
19	P2	-9.154290	0.095345	0.058015
22	P2	-17.940029	0.092427	0.047716
26	P2	-16.214073	0.098396	0.033357
30	P2	-19.639606	0.084188	0.027921

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.199519	0.007152	0.033499
7	P3	-8.199519	0.007152	0.033499
11	P3	-8.199519	0.007152	0.033499
15	P3	-8.199519	0.007152	0.033499
19	P3	-8.199519	0.007152	0.033499
22	P3	-8.199519	0.007152	0.033499
26	P3	-8.199519	0.007152	0.033499
30	P3	-8.199519	0.007152	0.033499

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1
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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	-3.739807	0.011367	-0.017525
7	P1	-2.745776	0.007755	-0.031534
11	P1	-2.894130	0.014615	-0.059890
15	P1	-3.512528	0.020608	-0.096840
19	P1	-3.380741	0.011193	0.021945
22	P1	-5.151925	0.022180	-0.053182
26	P1	-5.838485	0.019401	0.087399
30	P1	-5.221855	0.027288	0.053261
3	P1	-11.552726	0.045216	-0.061649
7	P1	-9.935388	0.050280	-0.063189
11	P1	-10.160550	0.059934	-0.154723
15	P1	-10.696331	0.102253	-0.156496
19	P1	-15.447152	0.063111	0.084778
22	P1	-20.386417	1.195978	0.379047

26	P1	-16.550060	0.372225	0.457866
30	P1	-18.236975	0.325956	-0.247667

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.276552	0.043038	0.296681
7	P2	-22.720739	0.078217	0.303771
11	P2	-11.340748	0.030328	0.184843
15	P2	-4.871163	0.029856	0.125645
19	P2	-6.884709	0.027552	0.084433
22	P2	-8.174815	0.029161	0.091153
26	P2	-23.950043	0.027683	0.060683
30	P2	-22.085133	0.019713	0.035868

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.033760	0.003152	0.037666
7	P3	-8.033744	0.003147	0.037838
11	P3	-8.033683	0.003151	0.037957
15	P3	-8.033794	0.003155	0.037914
19	P3	-8.033813	0.003157	0.038017
22	P3	-8.033806	0.003155	0.038440
26	P3	-8.033896	0.003151	0.038004
30	P3	-8.033694	0.003156	0.037885

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	0.000559415
	stdev	1.69444e-07
MEAN Q	mean	0.000519248
	stdev	2.13486e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.139220
	stdev	0.00116990
STDEV Q	mean	0.139578
	stdev	0.00118892

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006021[890]
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_1PNPDE20060210_052944_000000042045_00048_20643_2658.N1	0	248
ASA_IMM_1PNPDE20060210_054350_000000352045_00048_20643_2602.N1	1	0
ASA_IMM_1PNPDE20060219_004051_000000622045_00174_20769_3606.N1	1	0
ASA_IMM_1PNPDK20060219_083053_000000502045_00179_20774_1057.N1	0	29
ASA_WVS_1PNPDE20060210_040752_000000002045_00047_20642_0876.N1	1	0

ASA_WSM_1PNPDE20060218_112322_000001222045_00166_20761_5431.N1	0	60
ASA_WSM_1PNPDE20060219_183349_000001282045_00185_20780_5578.N1	0	40

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

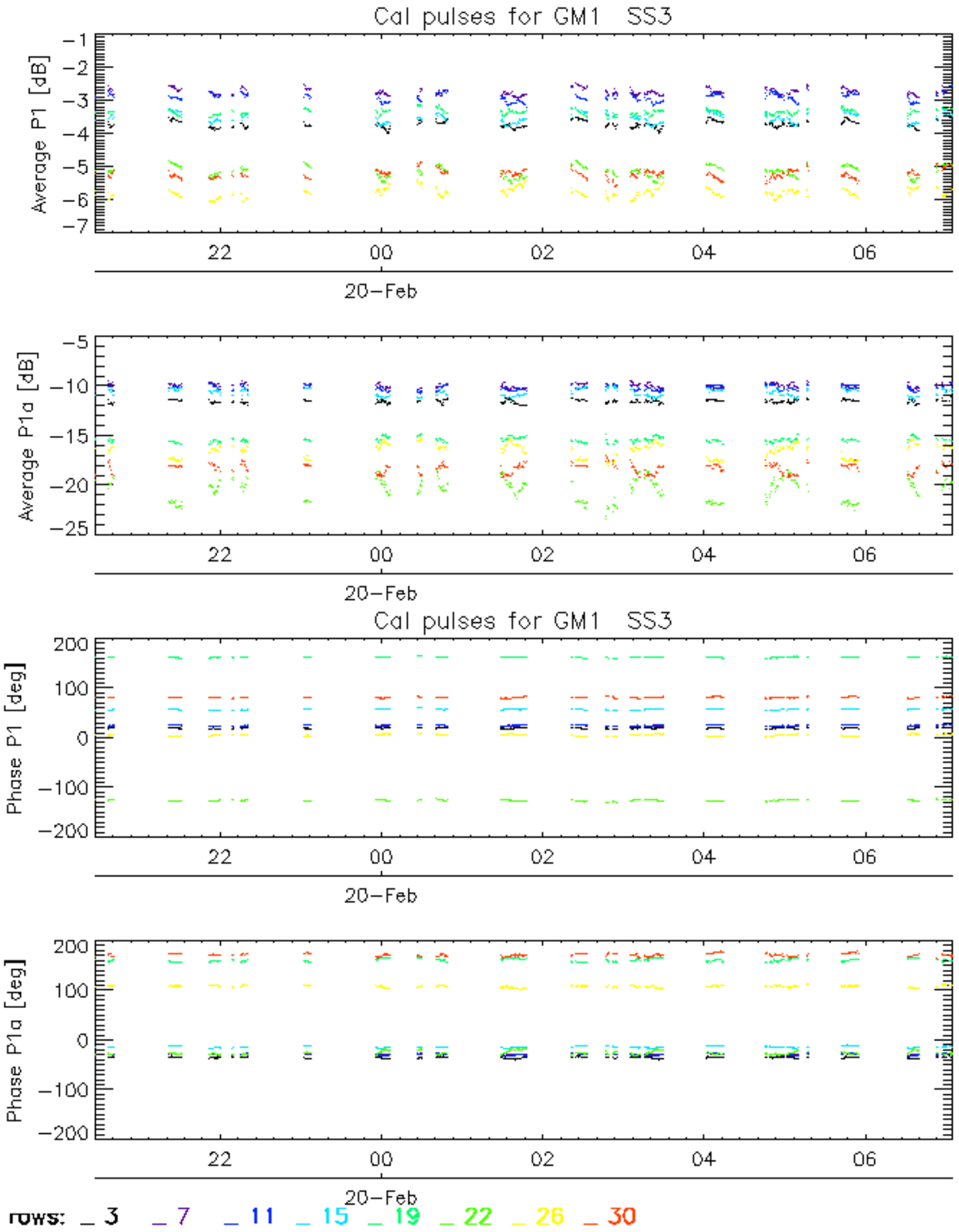
Evolution of Absolute Doppler

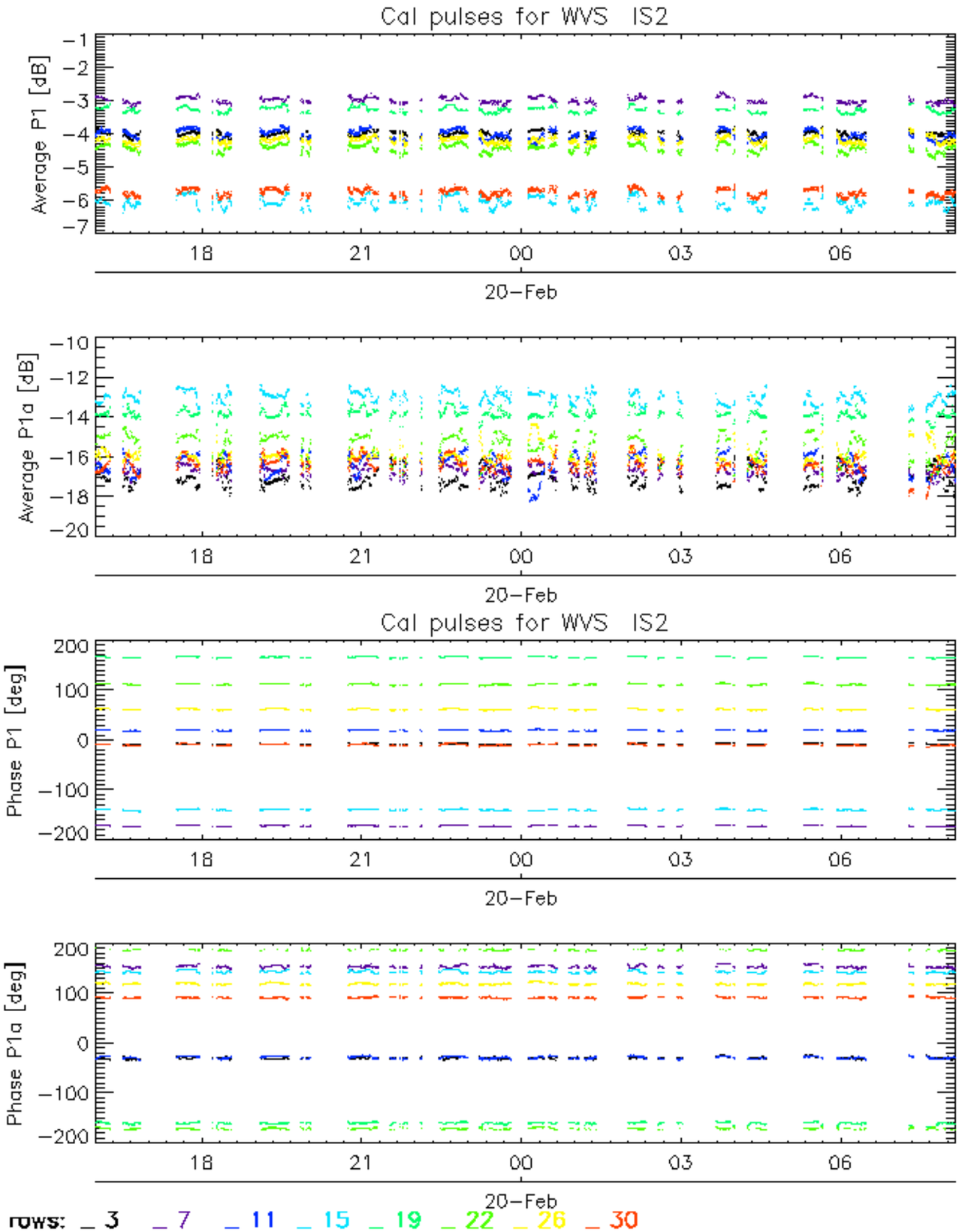
Acsending

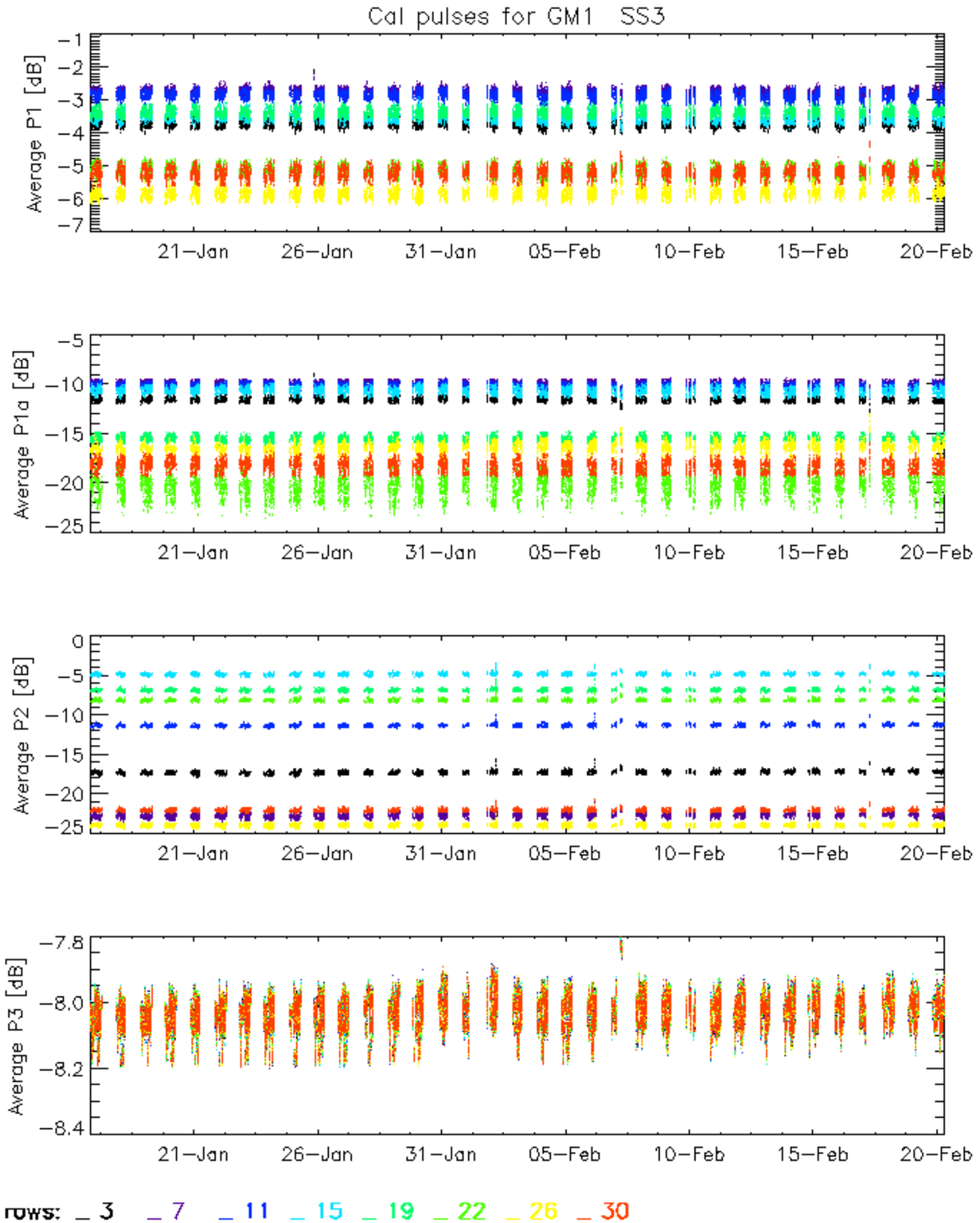
Descending

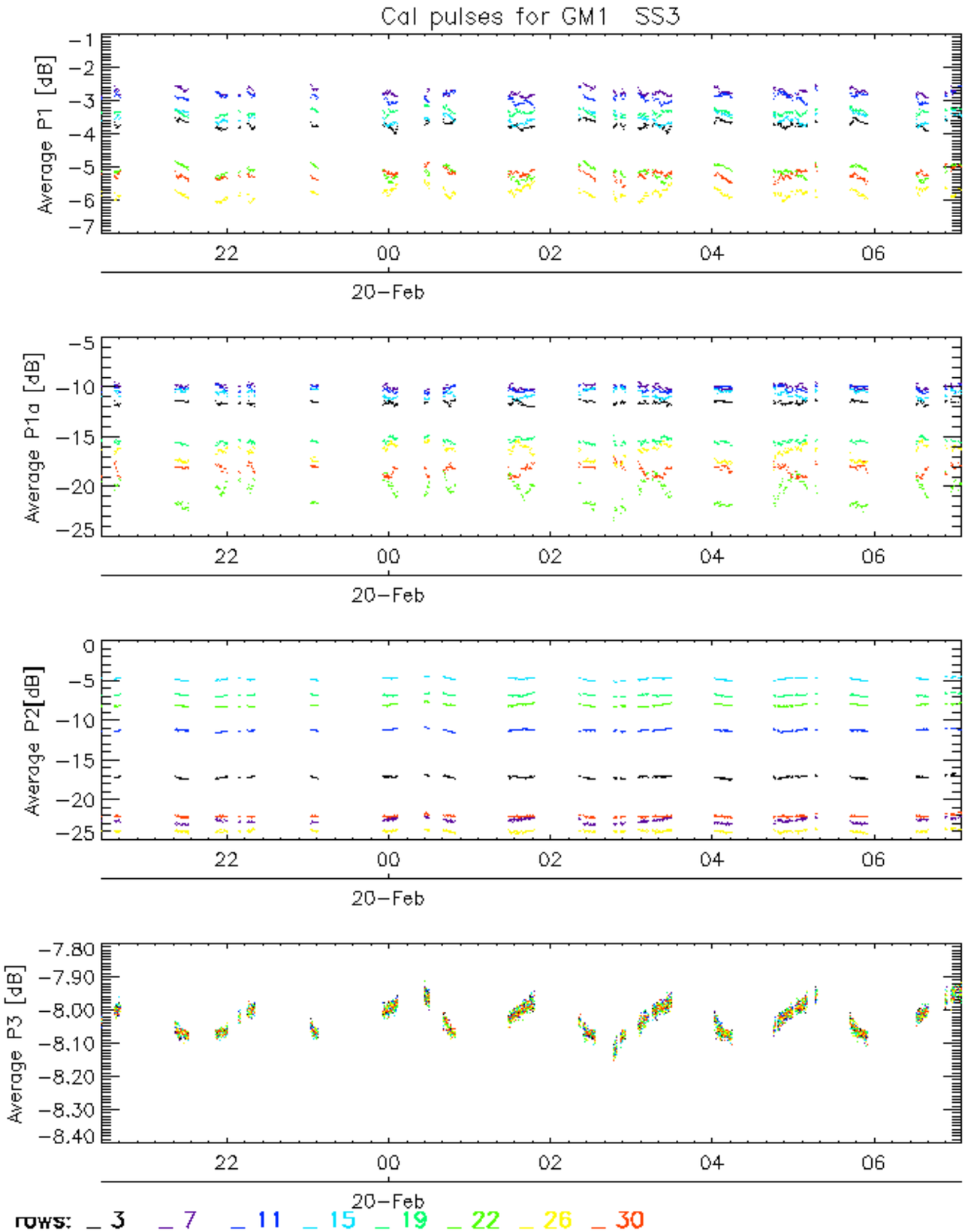
7.6 - Doppler evolution versus ANX for GM1

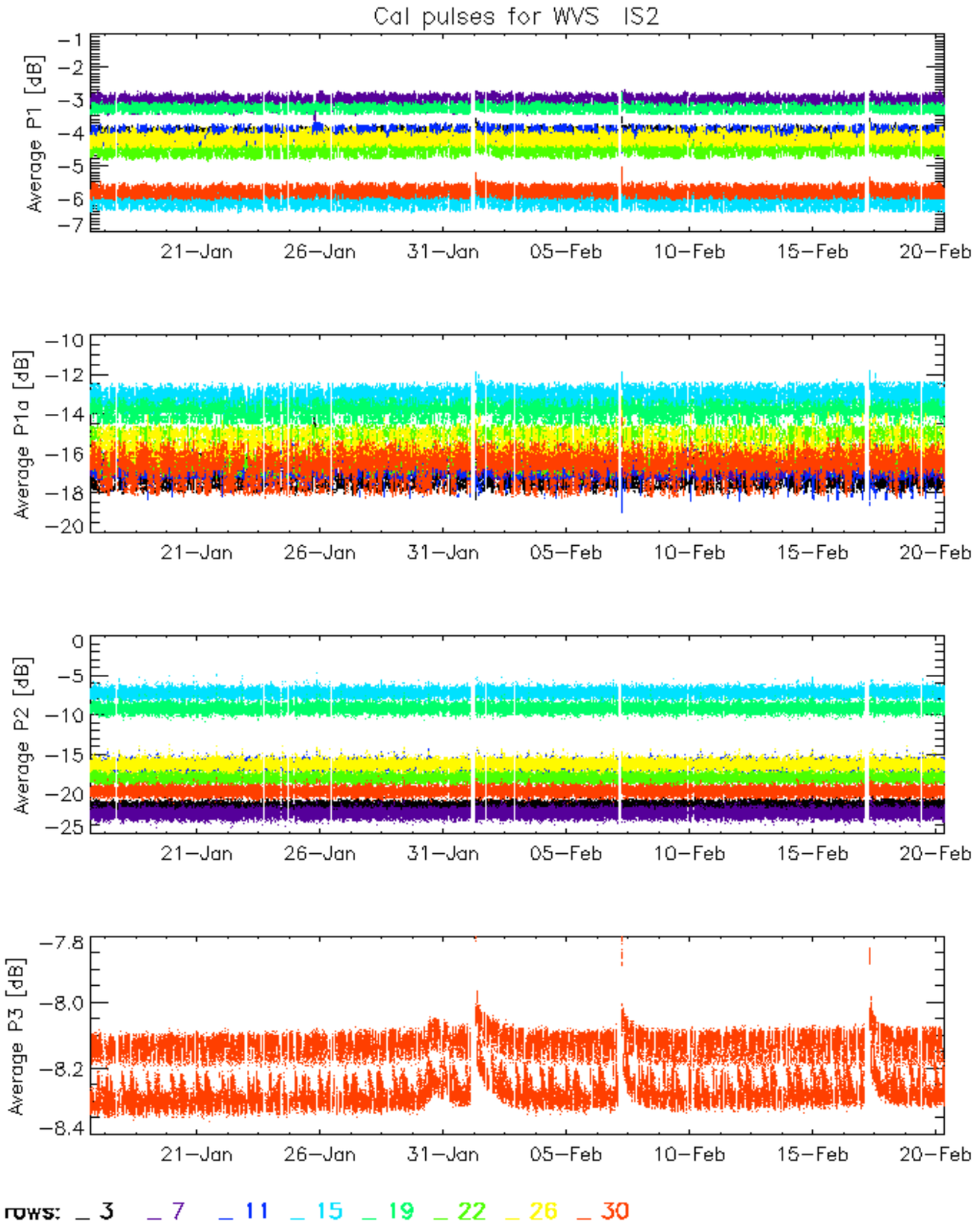
Evolution Doppler error versus ANX

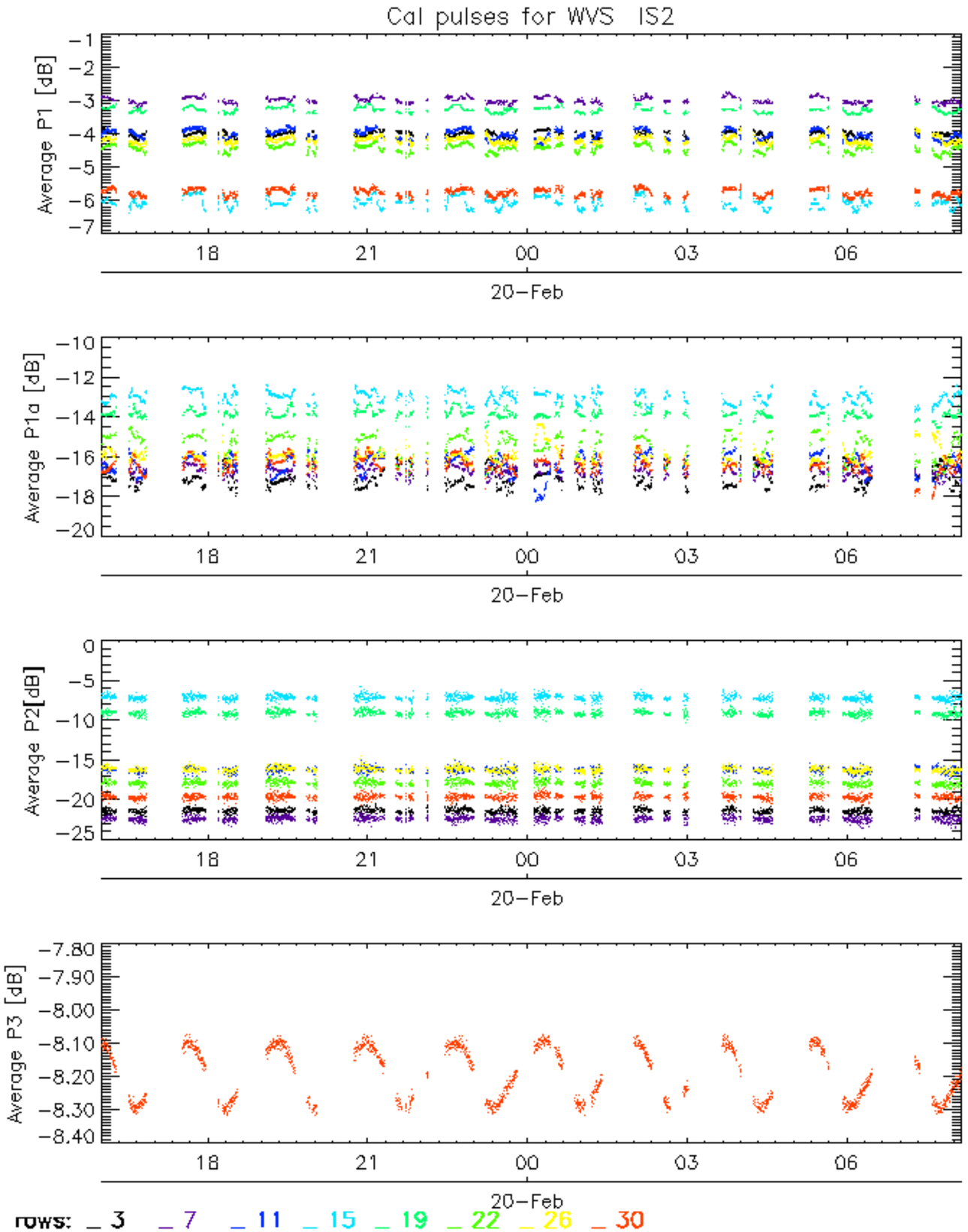


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
22
00
02
04
06
20−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
22
00
02
04
06
20−Feb
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
22
00
02
04
06
20−Feb
Phase P1a [deg]
200
100
0
−100
−200
22
00
02
04
06
20−Feb
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb
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
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

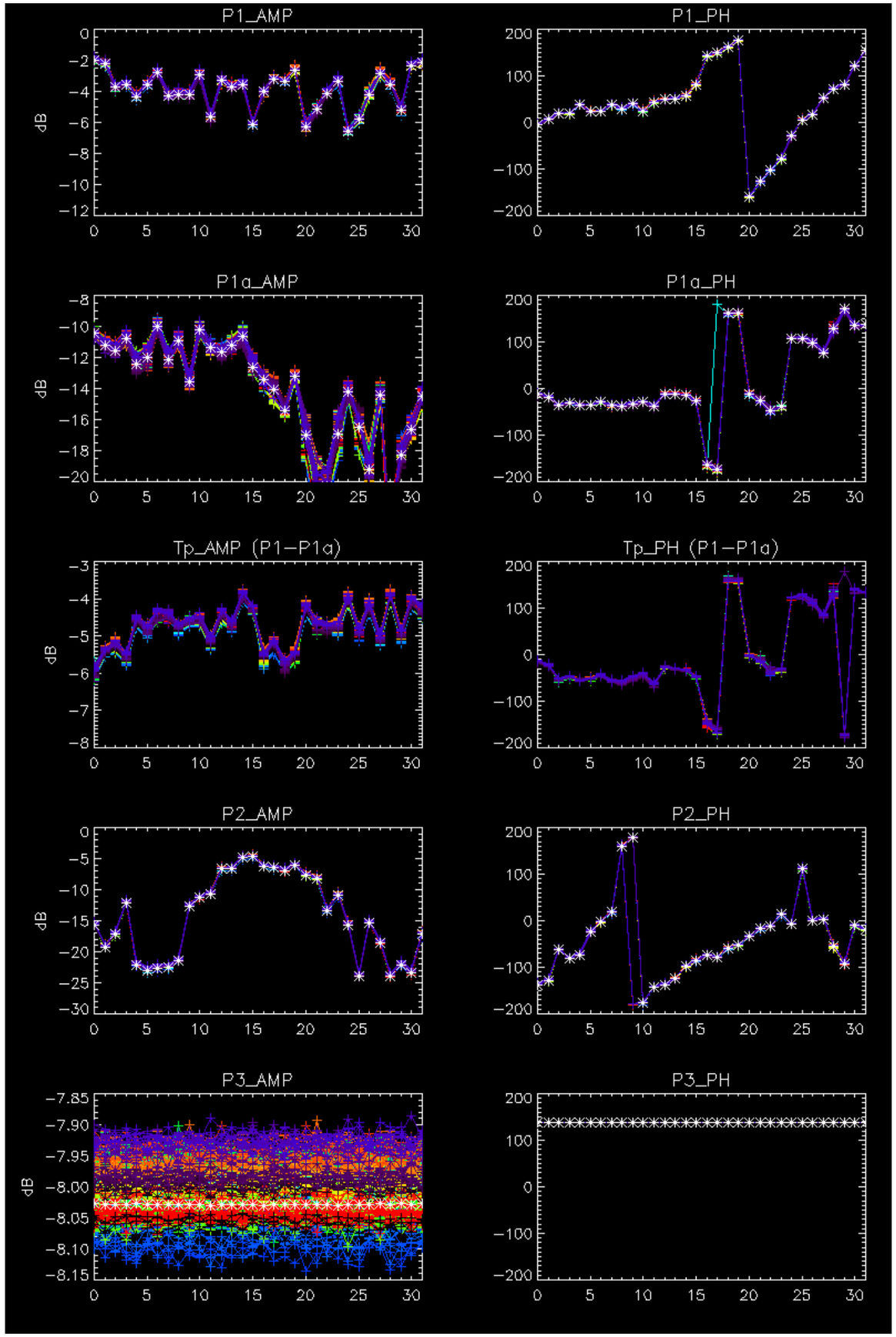

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
22
00
02
04
06
20−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
22
00
02
04
06
20−Feb
Average P2[dB]
0
−5
−10
−15
−20
−25
22
00
02
04
06
20−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
22
00
02
04
06
20−Feb
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

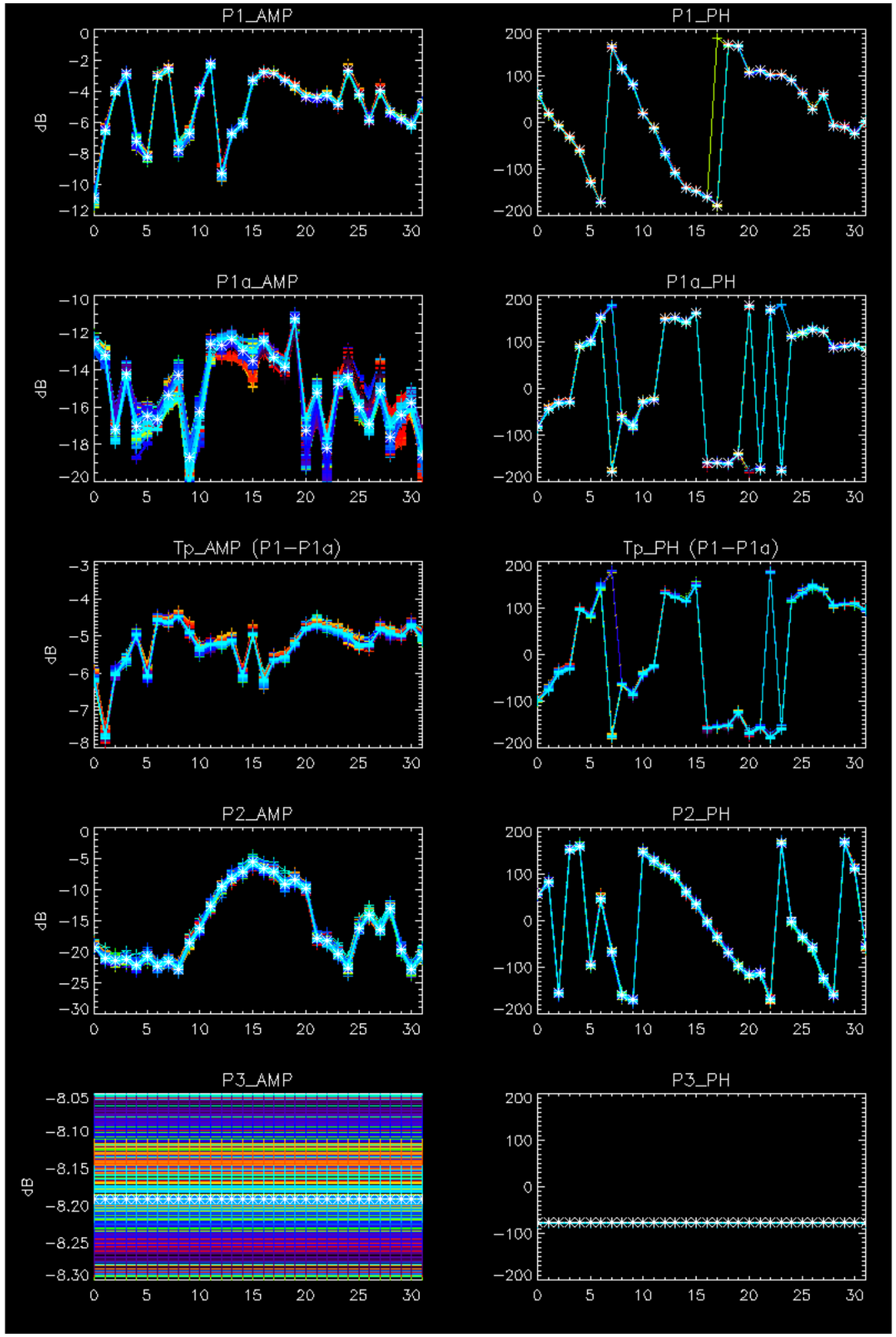

Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

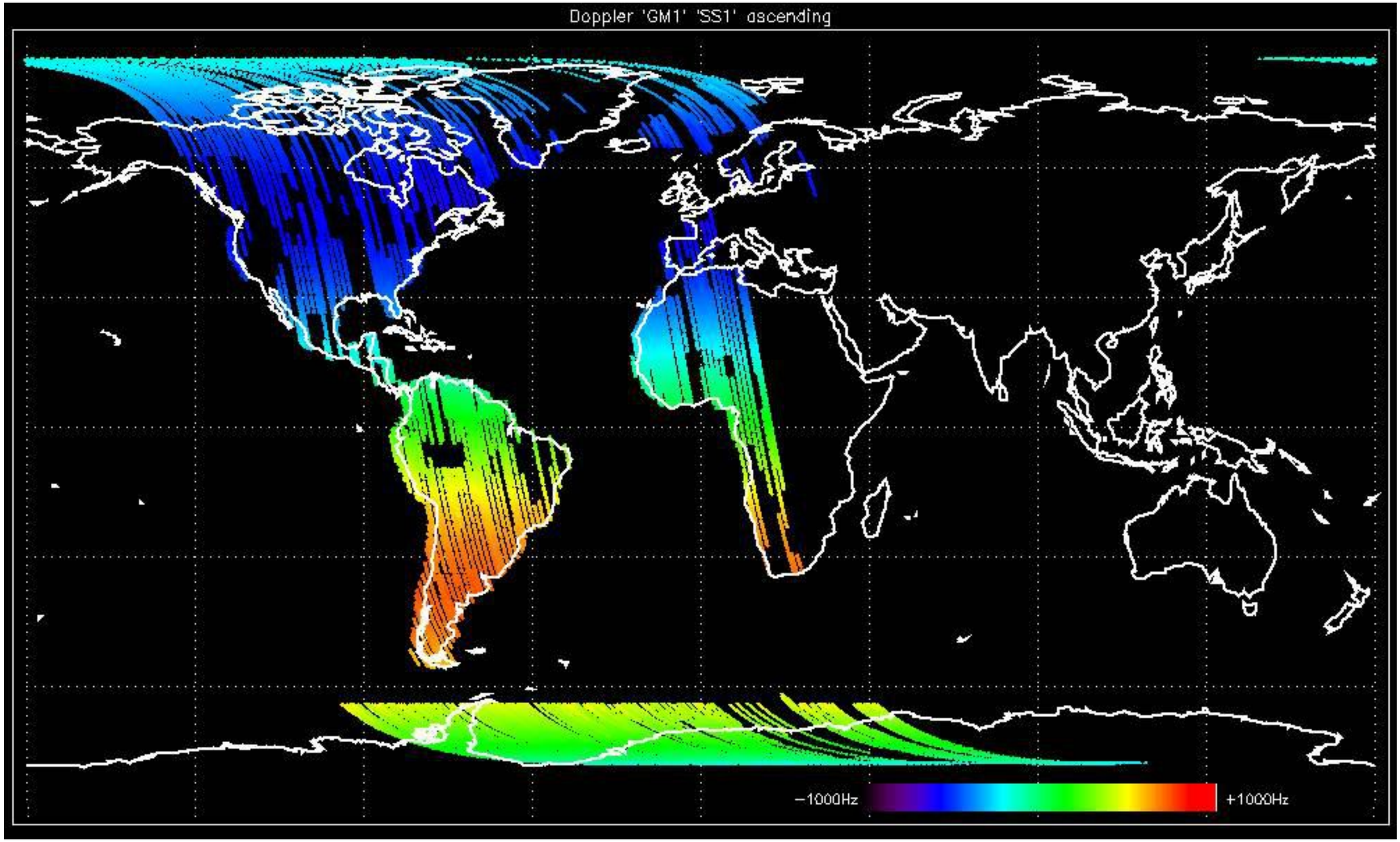
No anomalies observed.

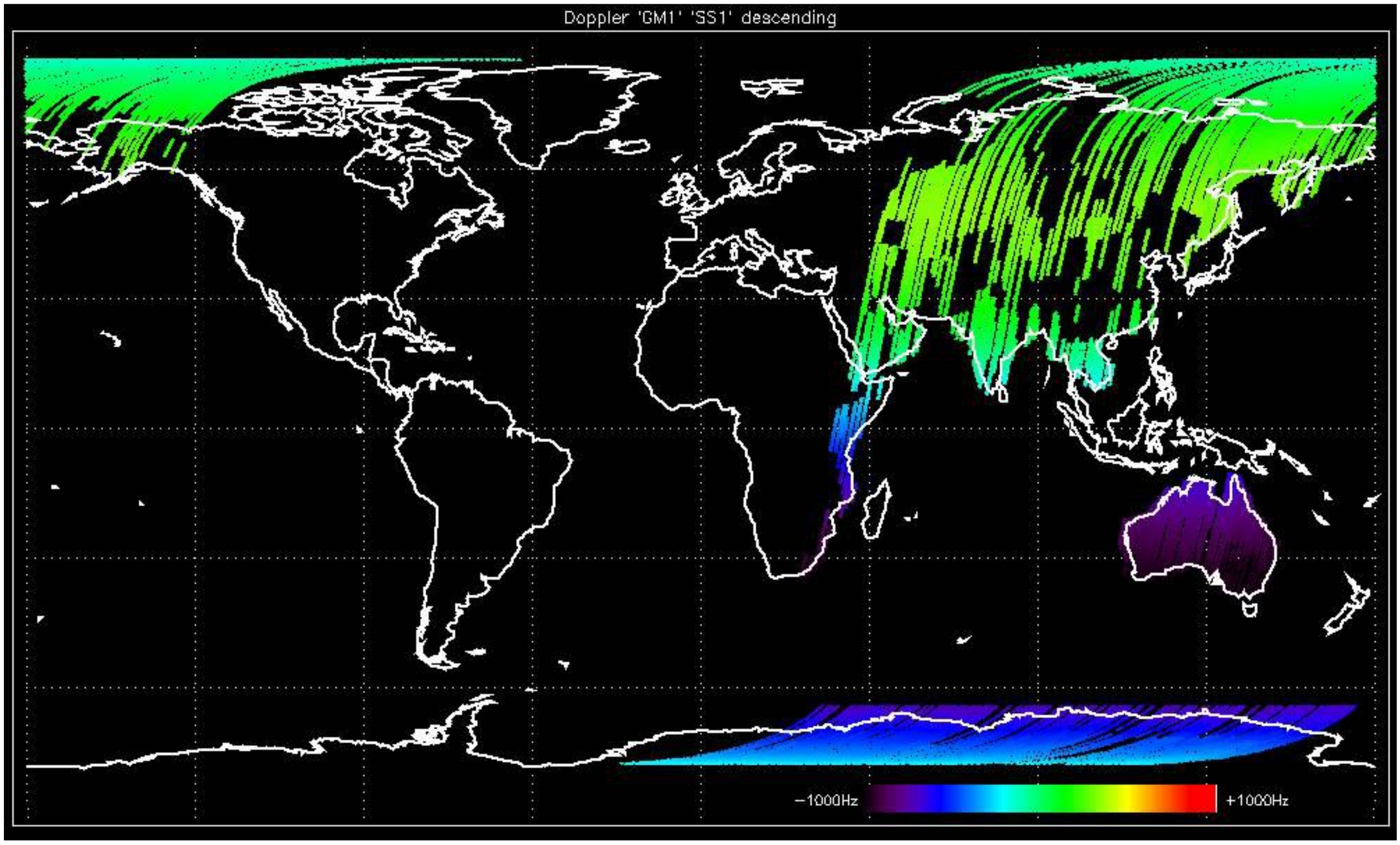

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

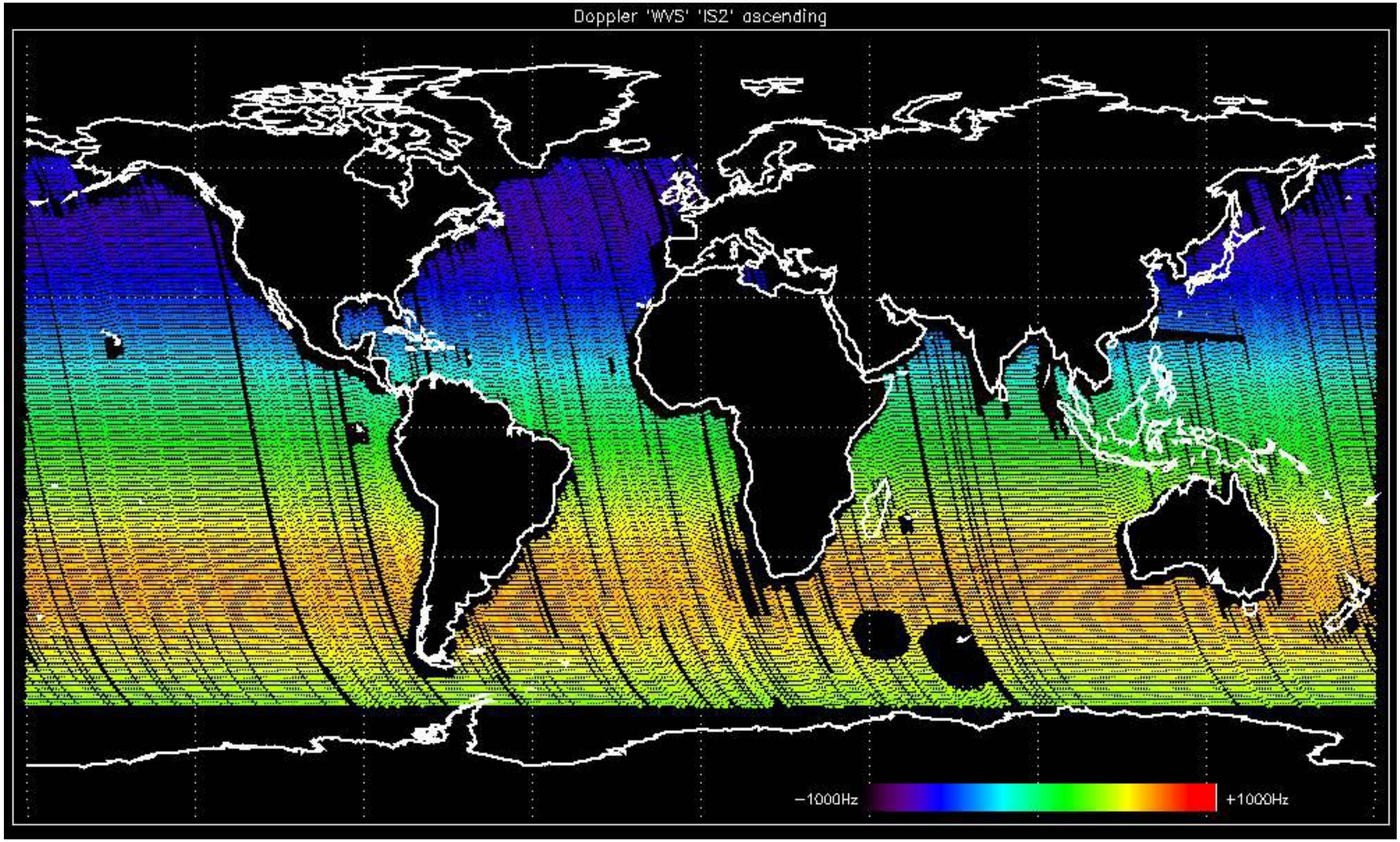

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

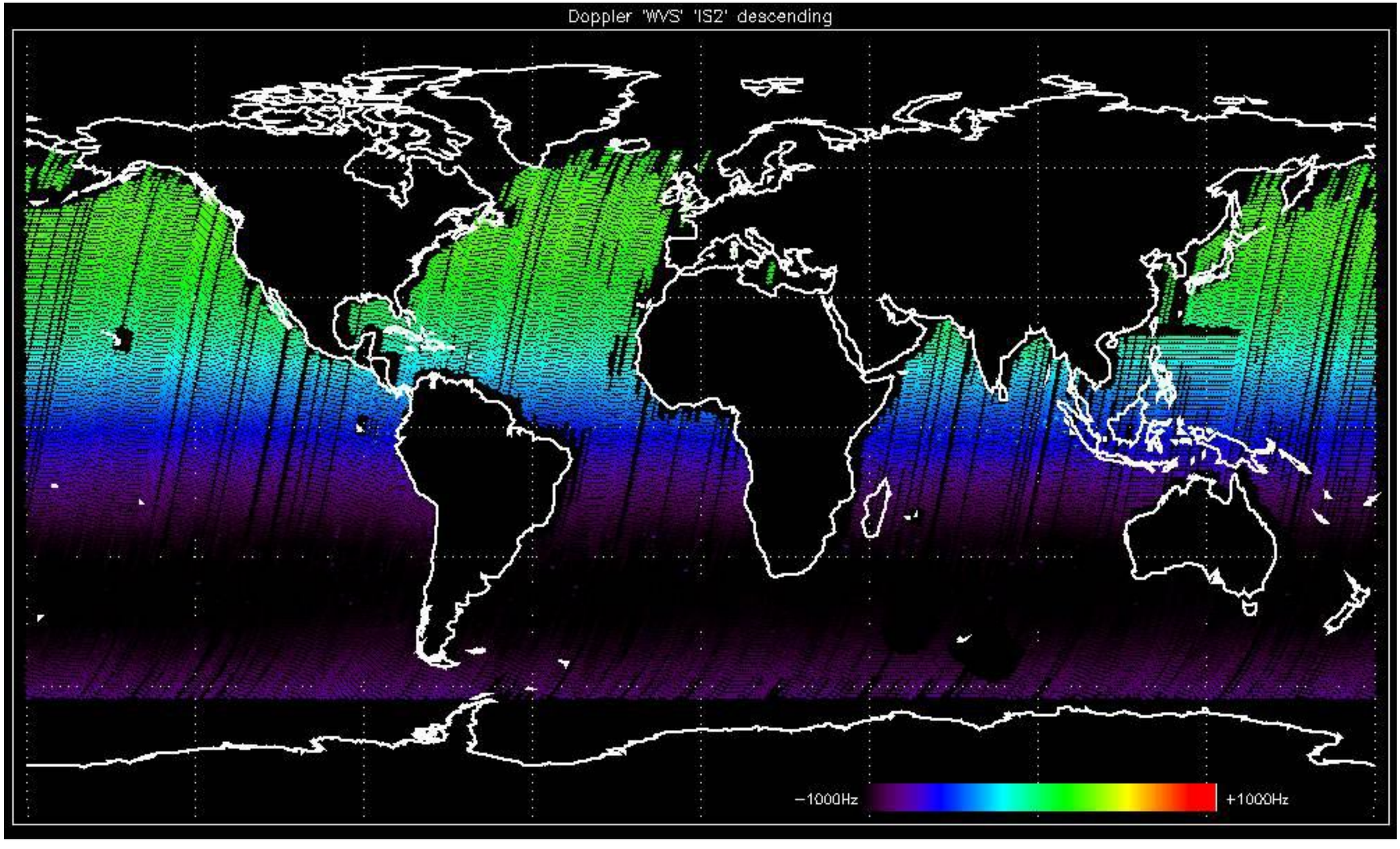
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

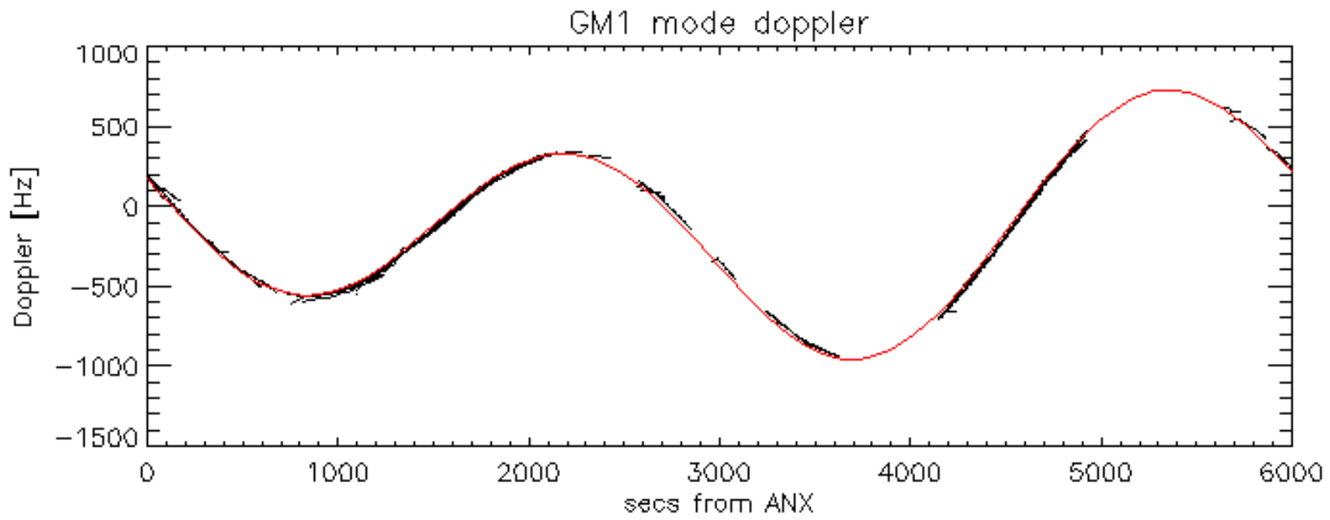
Preliminary report.The data is not yet controled

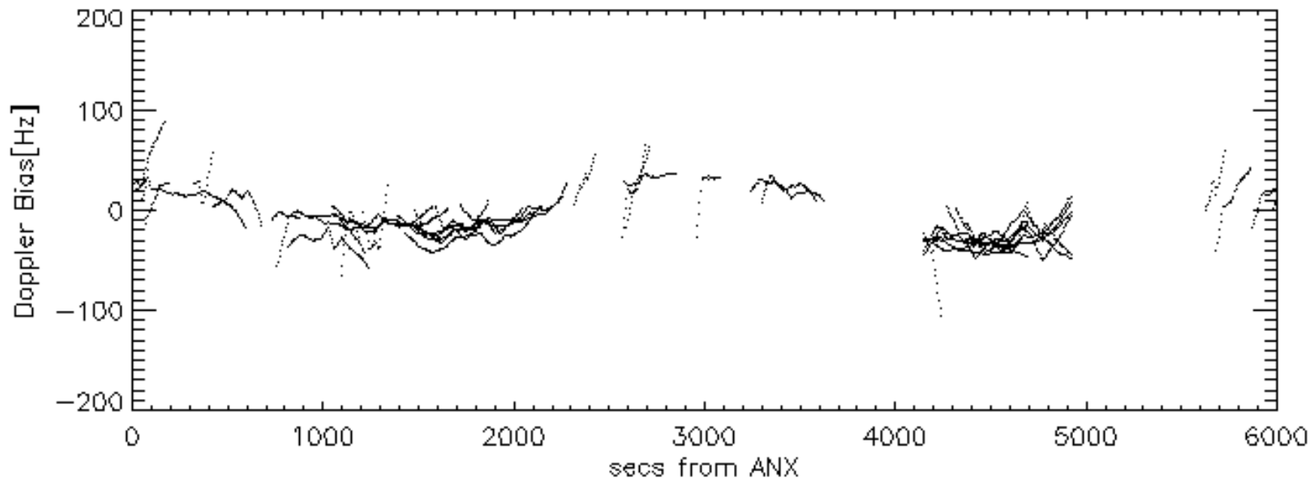

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

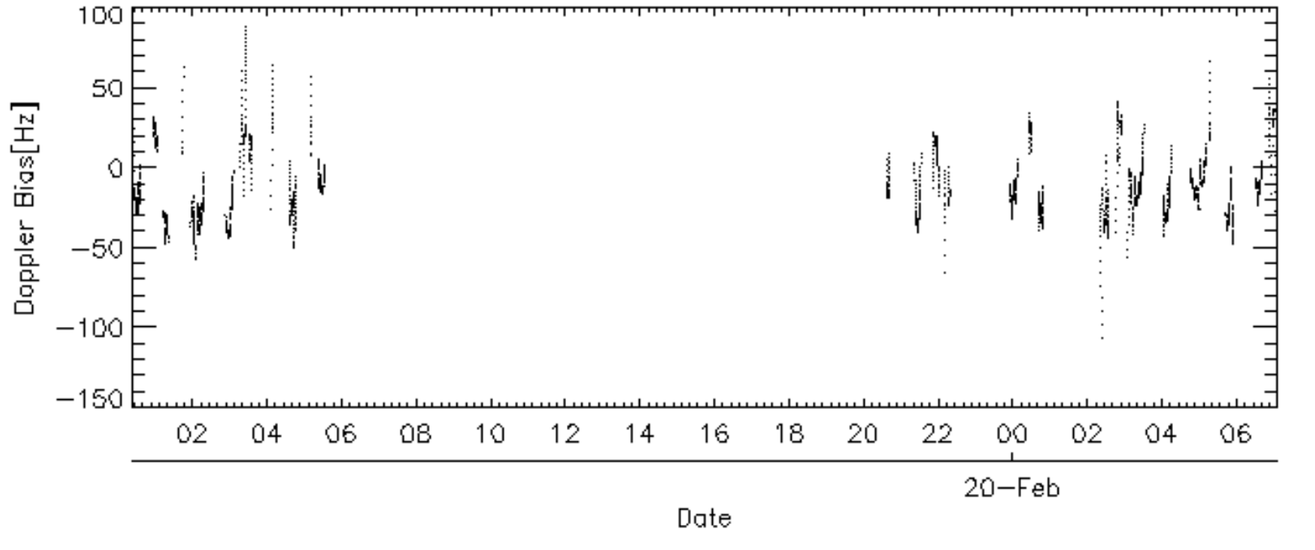

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

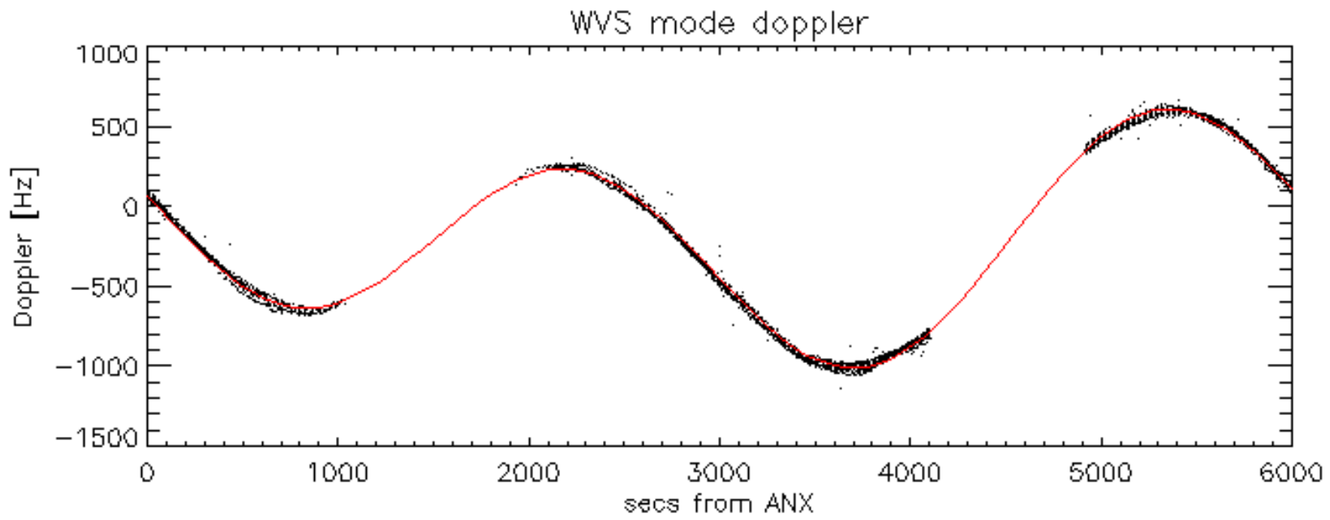

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

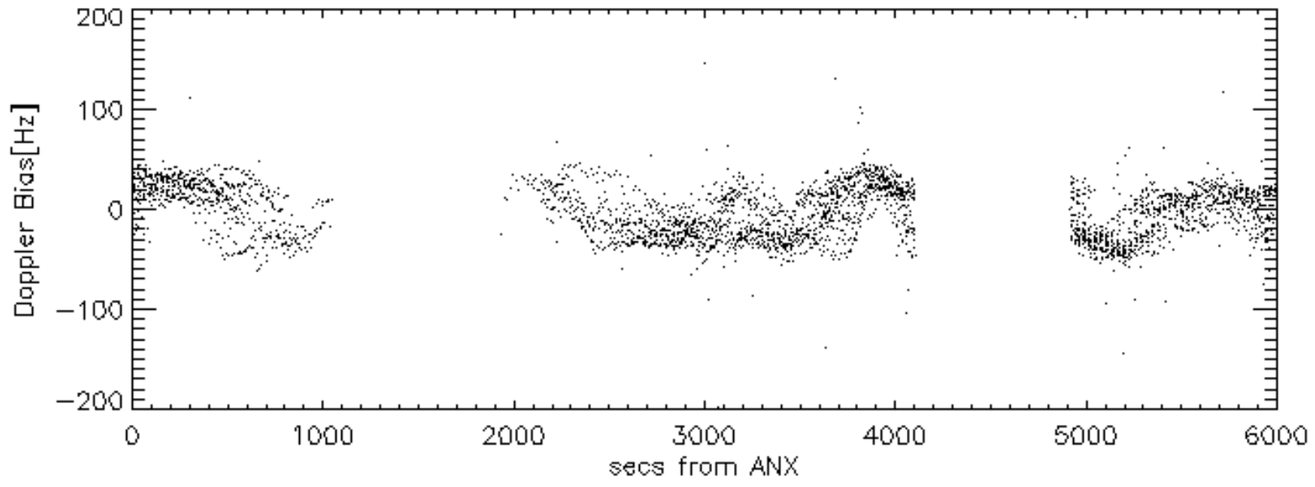

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

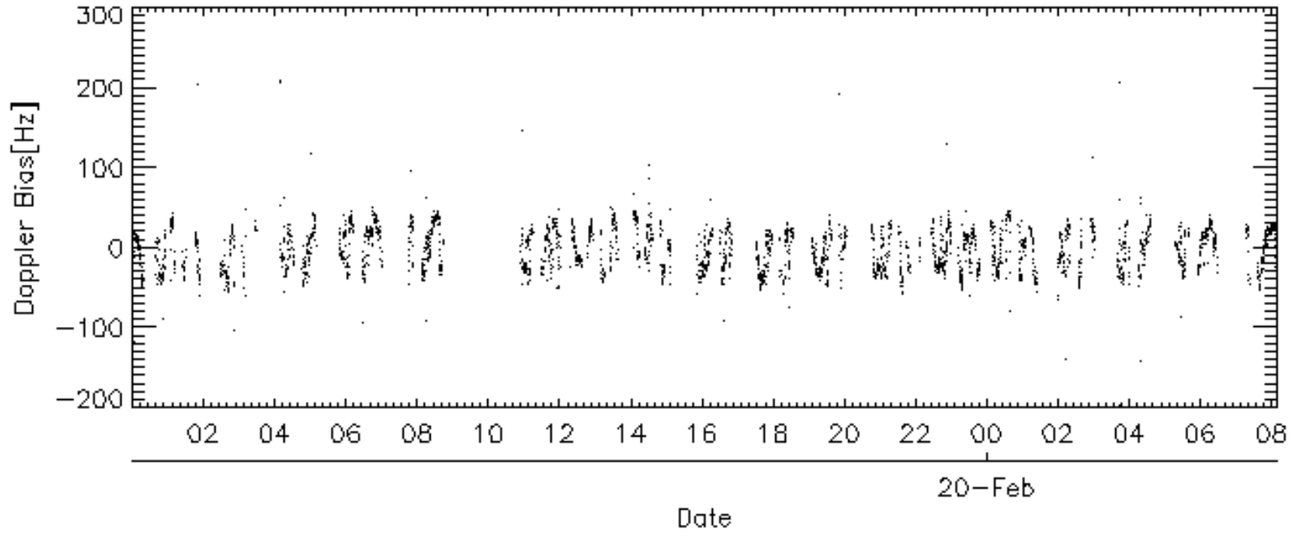

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

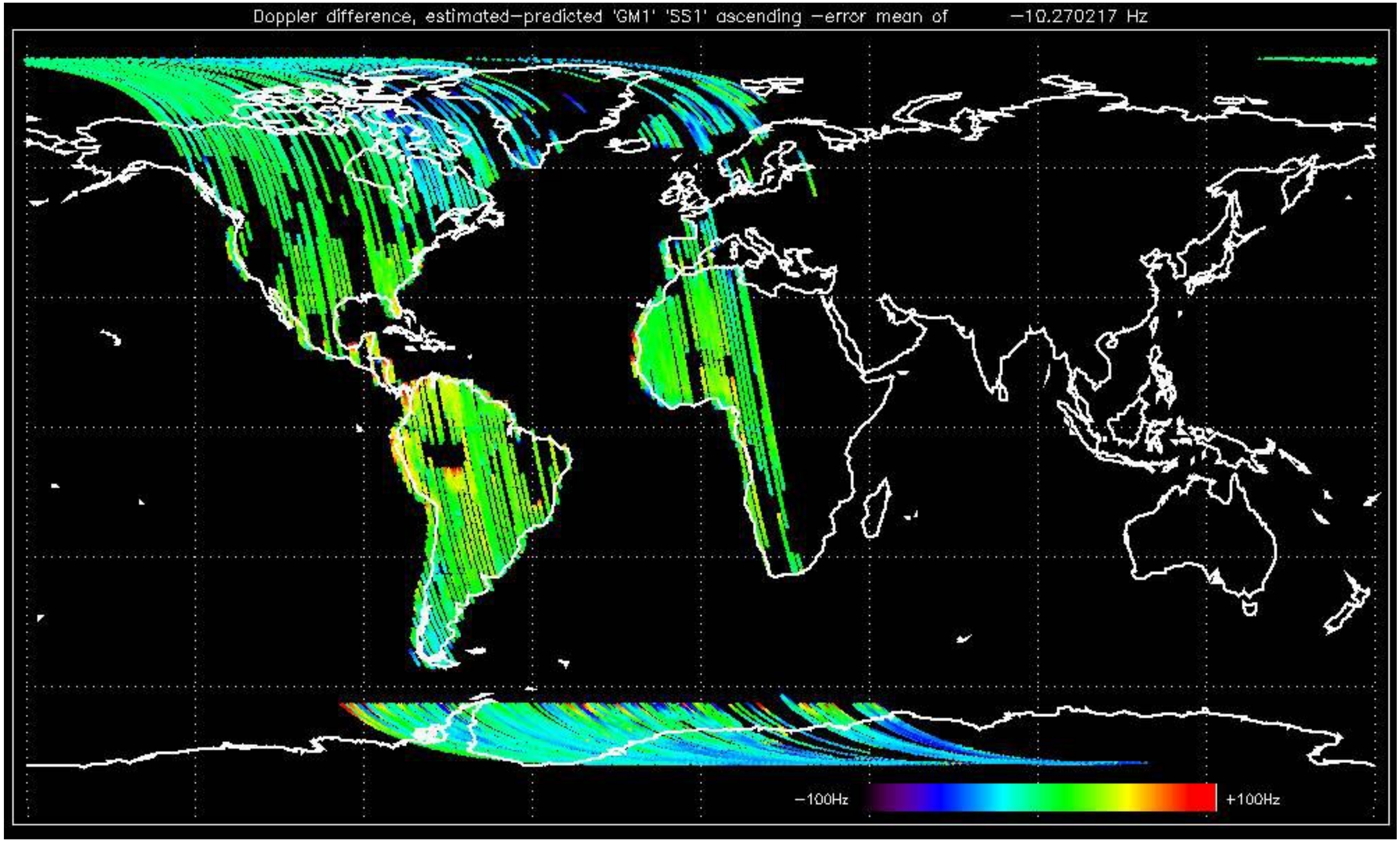

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

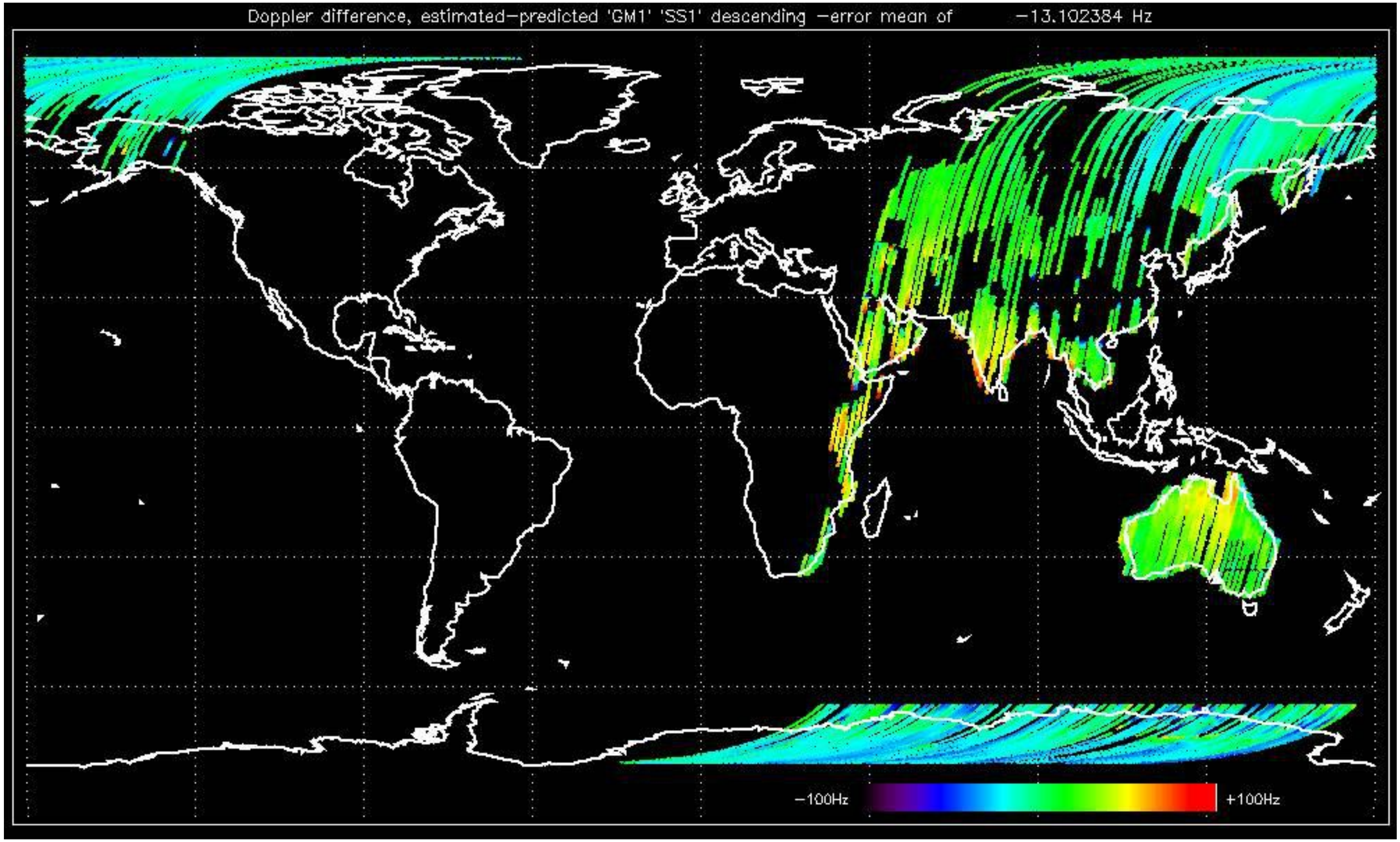

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
20−Feb
Date

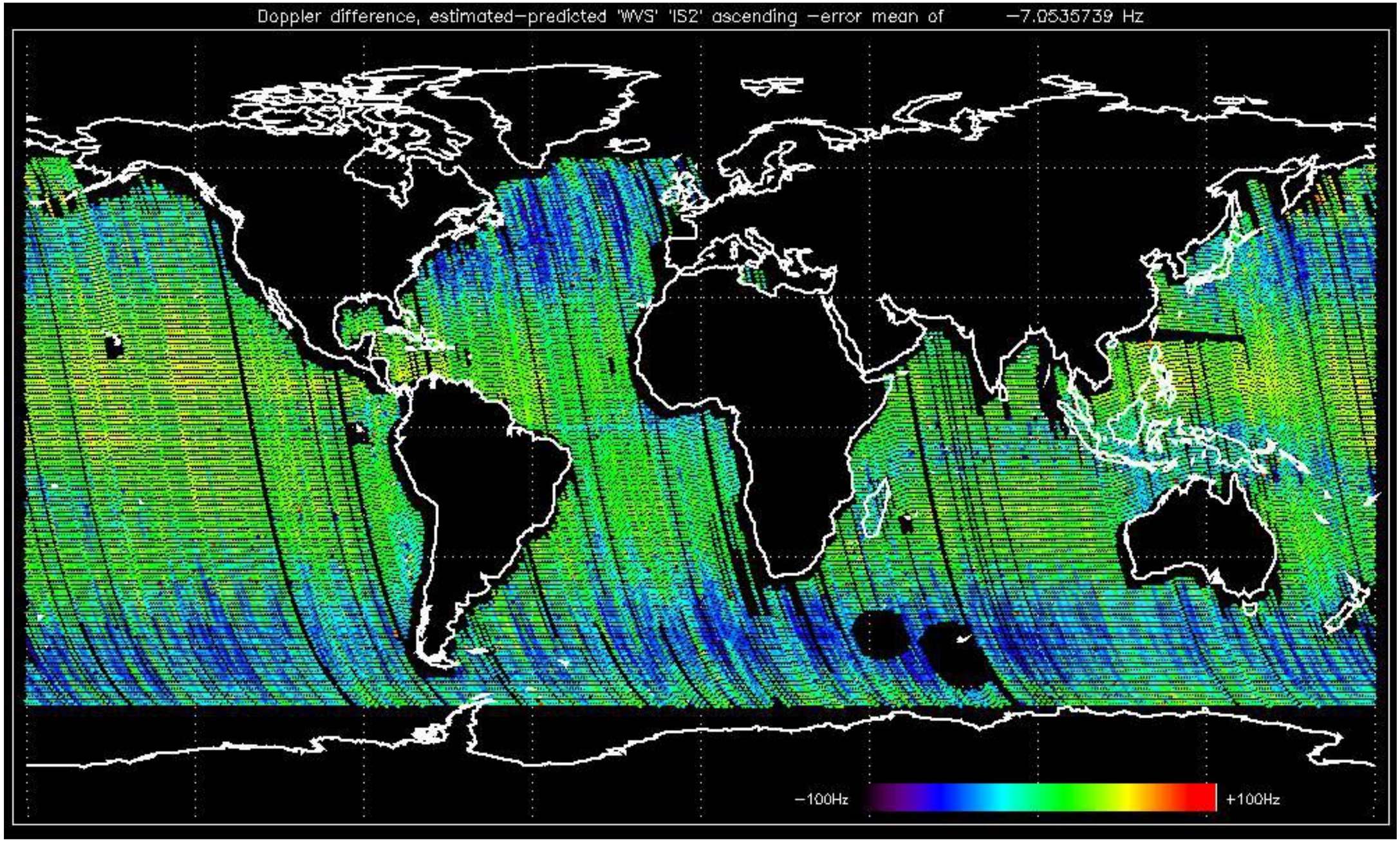

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

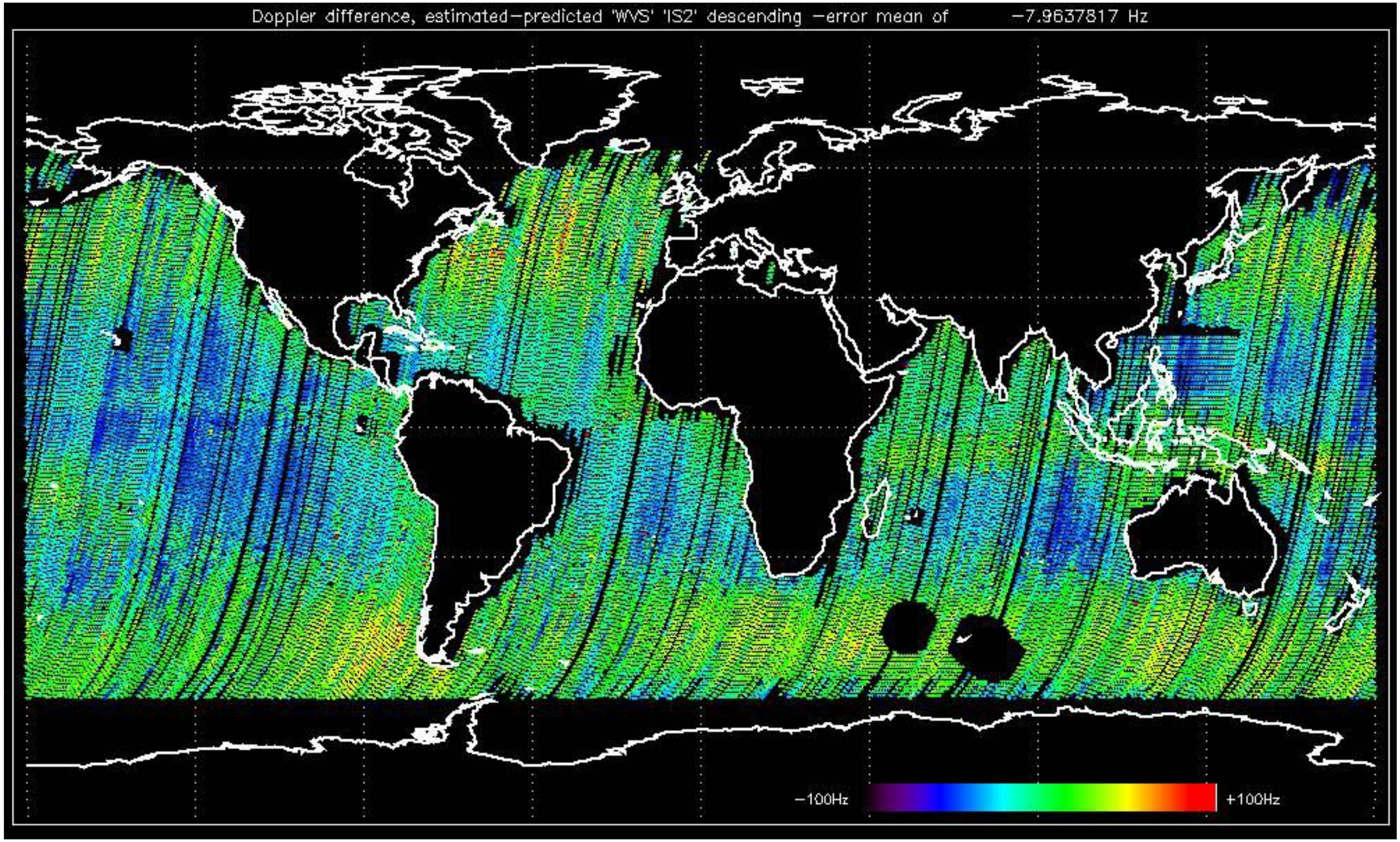

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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
20−Feb
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −10.270217 Hz
−100Hz
+100Hz

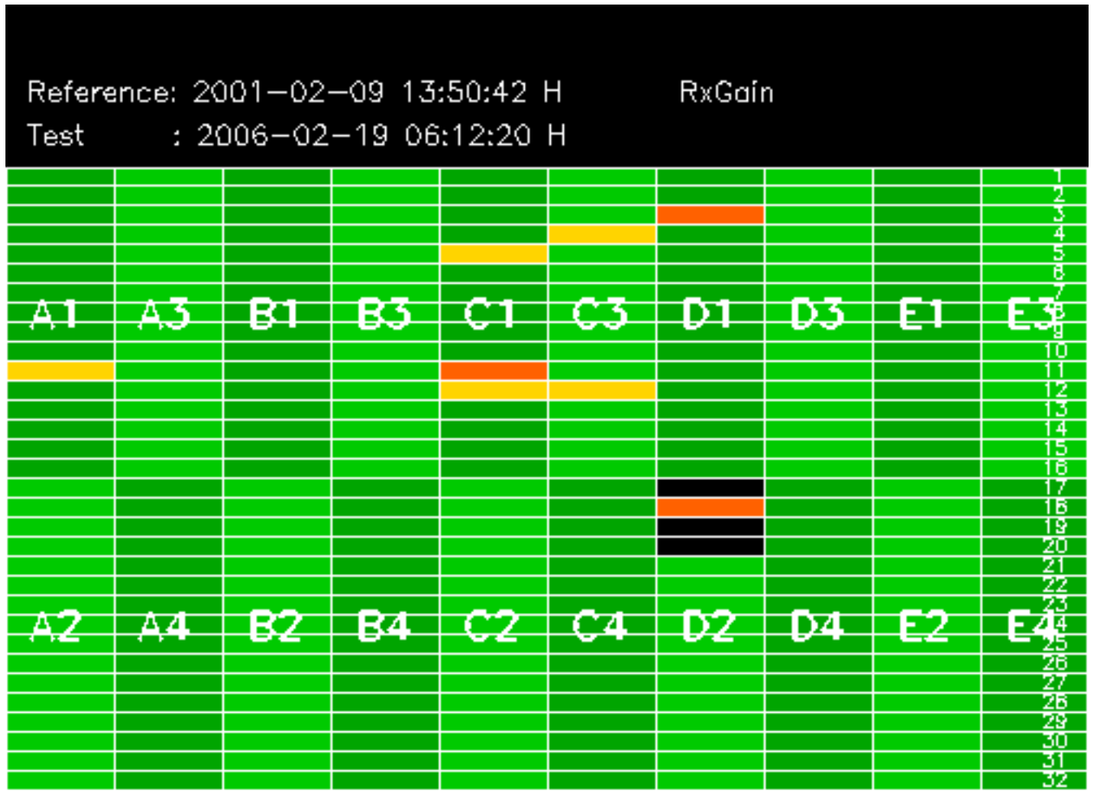

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −13.102384 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −7.0535739 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −7.9637817 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-02-19 06:12:20 H
RxGain
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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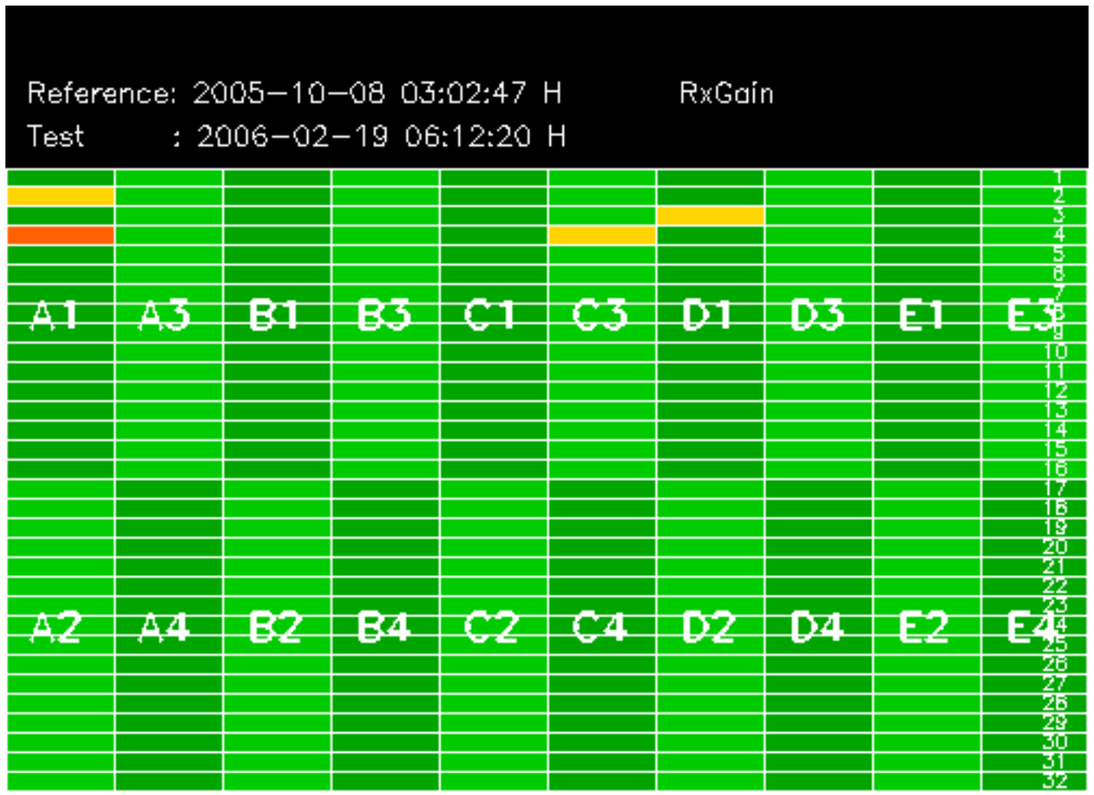
Reference: 2005-10-08 03:02:47 H
Test : 2006-02-19 06:12:20 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
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8
9
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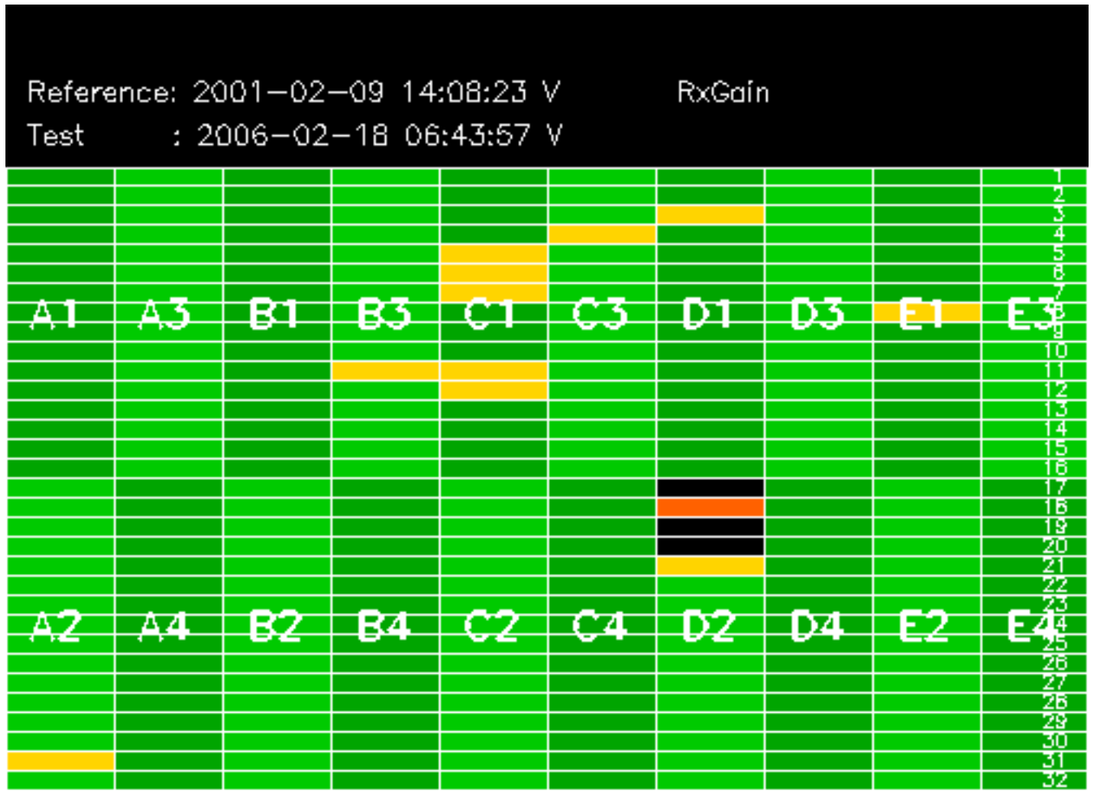
Reference: 2001-02-09 14:08:23 V
Test : 2006-02-18 06:43:57 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
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9
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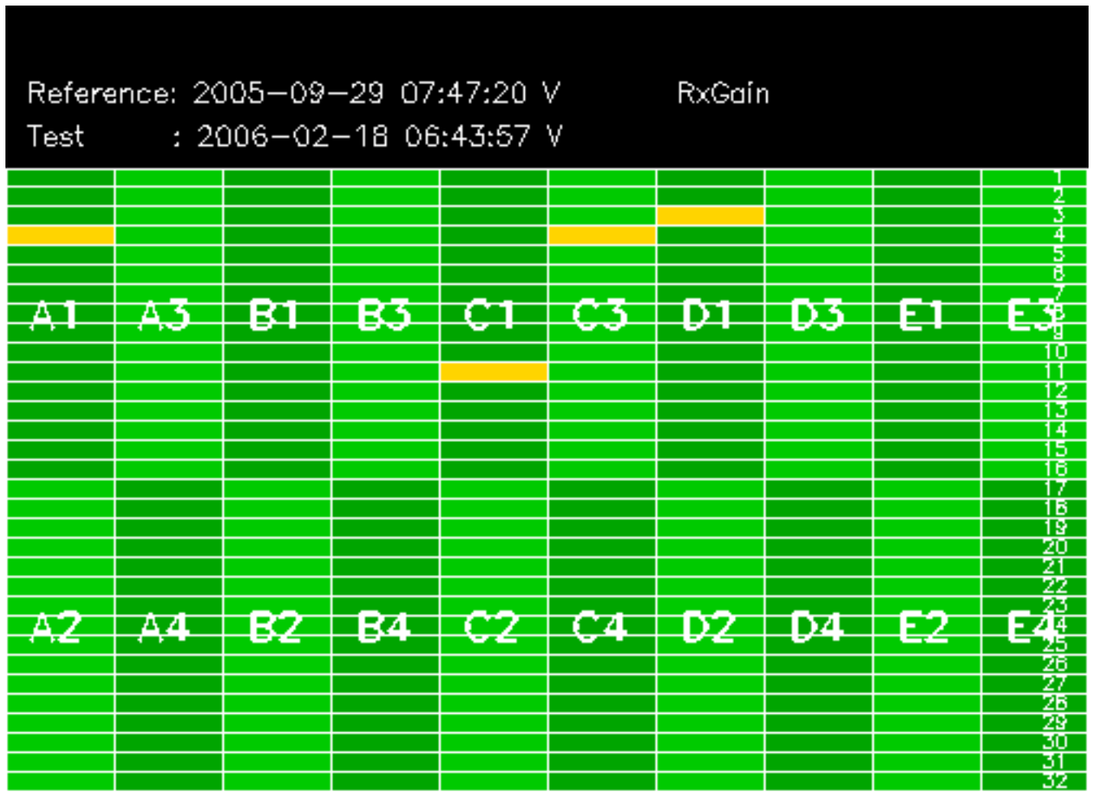
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-18 06:43:57 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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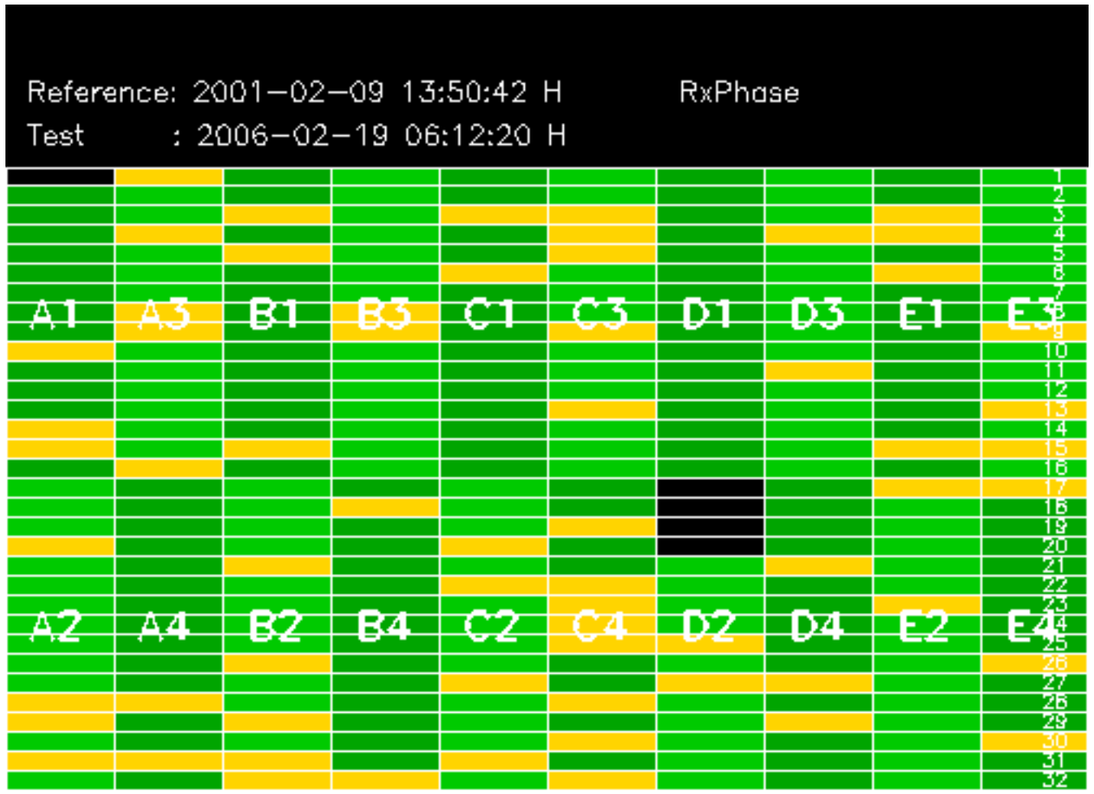
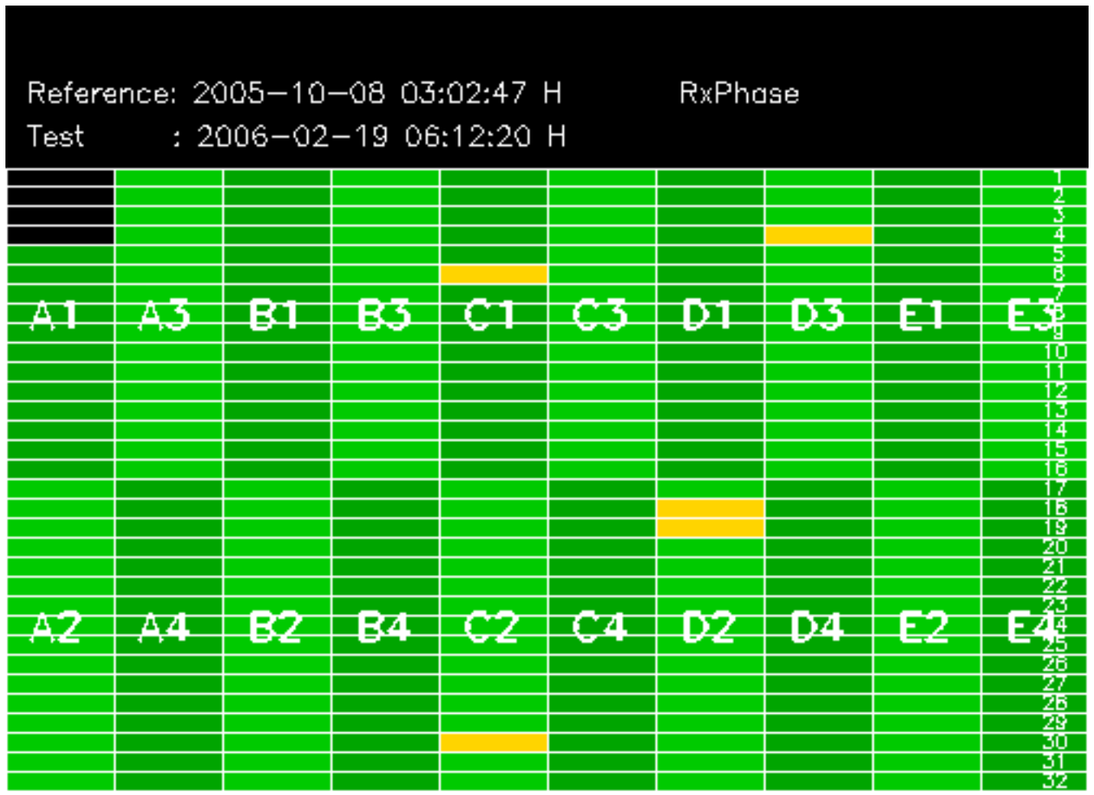

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-02-19 06:12:20 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-02-19 06:12:20 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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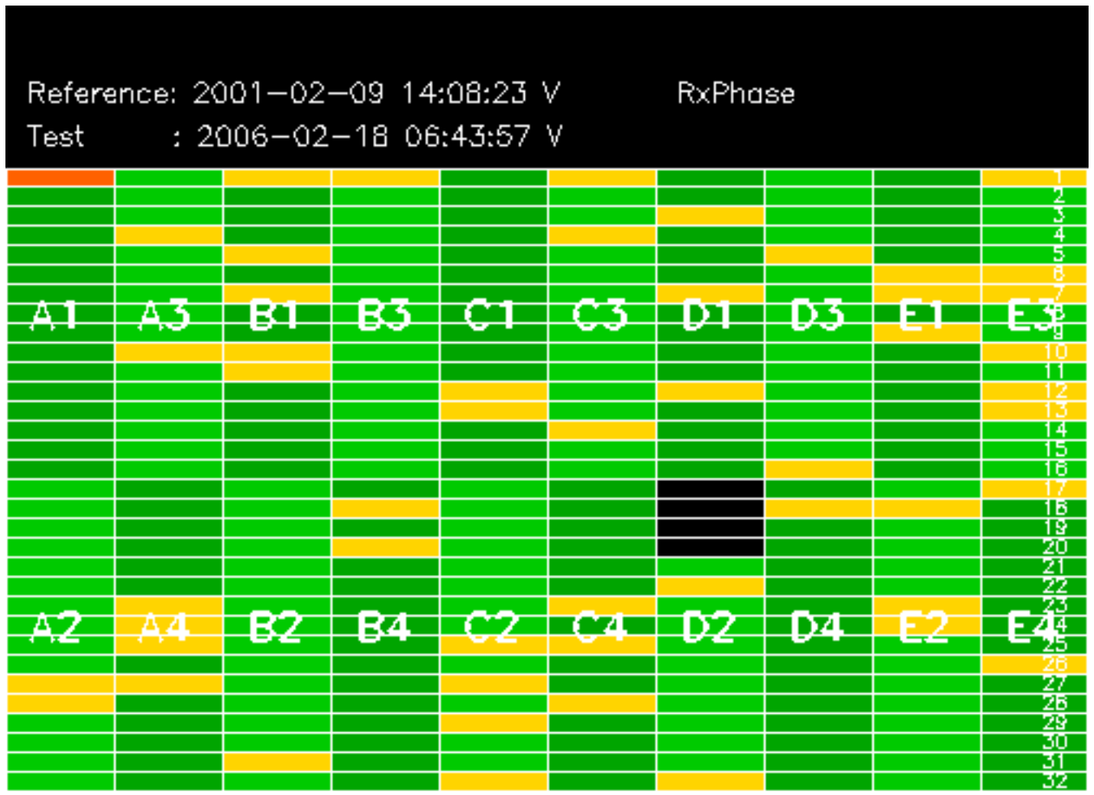
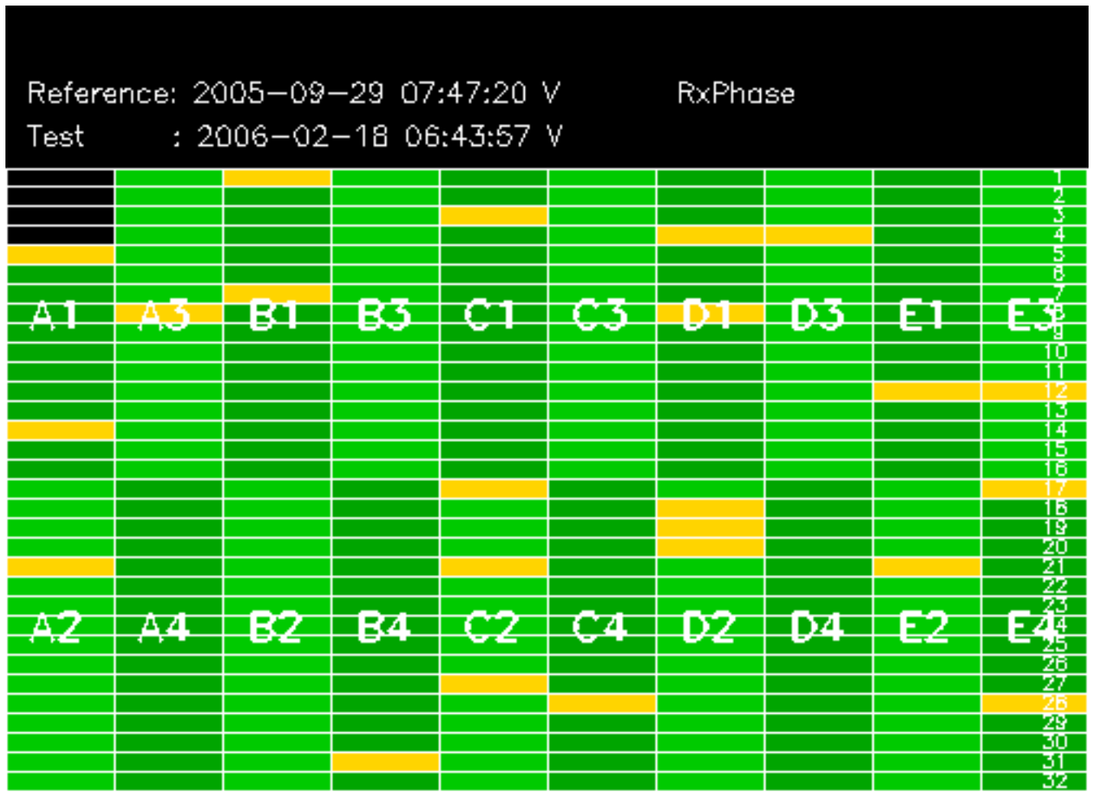

Reference: 2001-02-09 14:08:23 V
Test : 2006-02-18 06:43:57 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-02-18 06:43:57 V
RxPhase
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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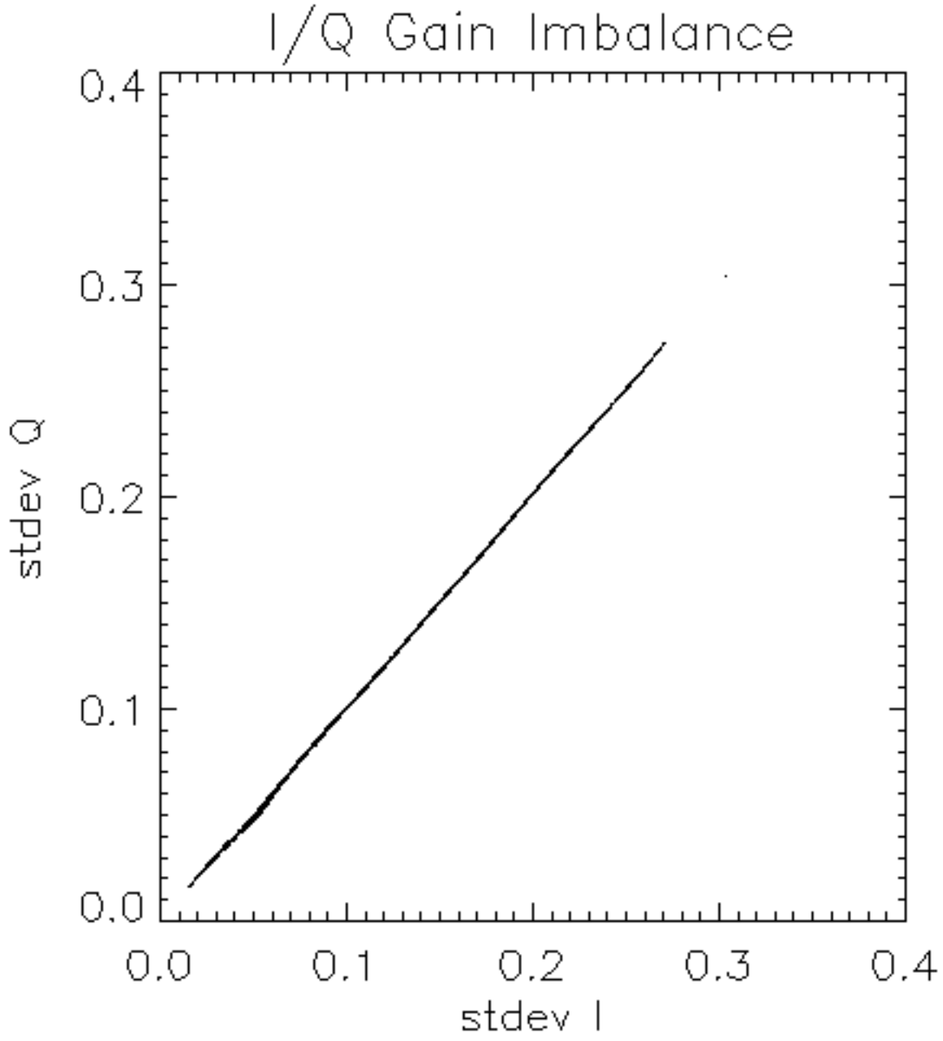
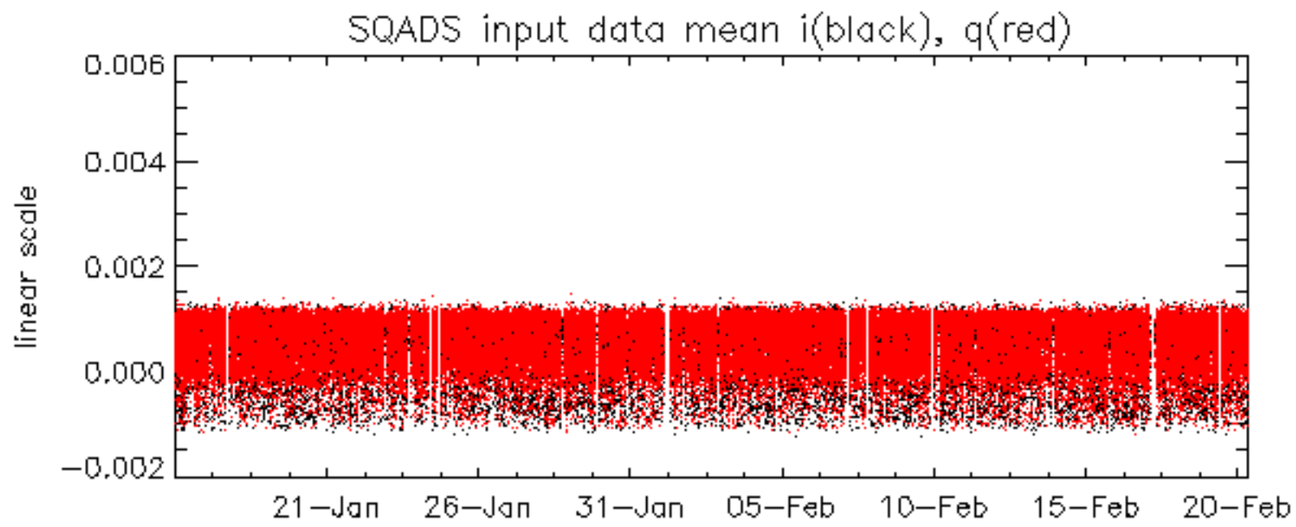
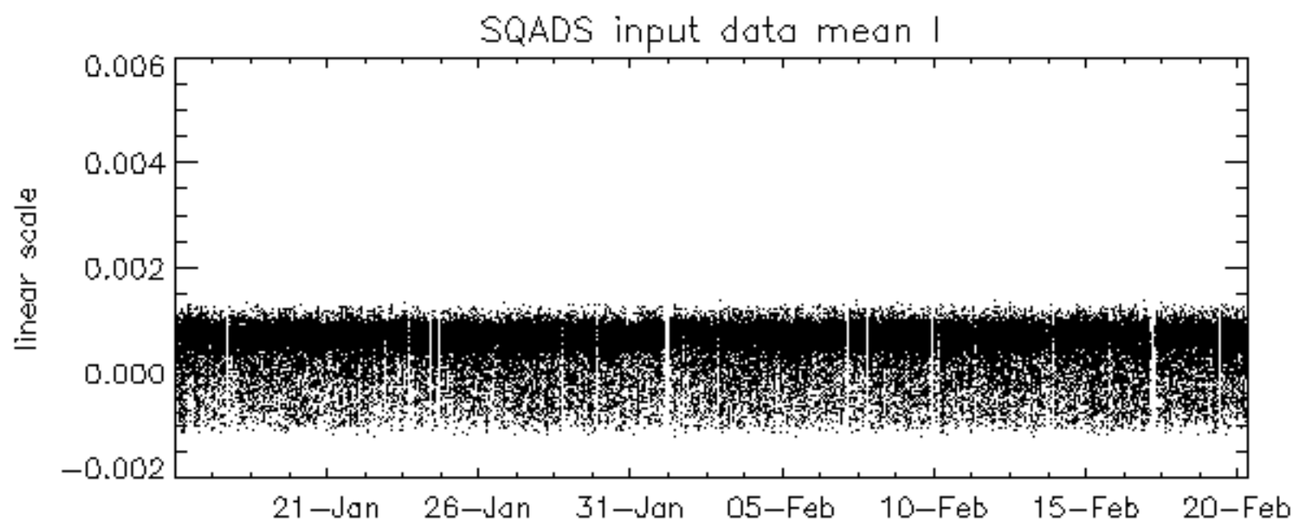
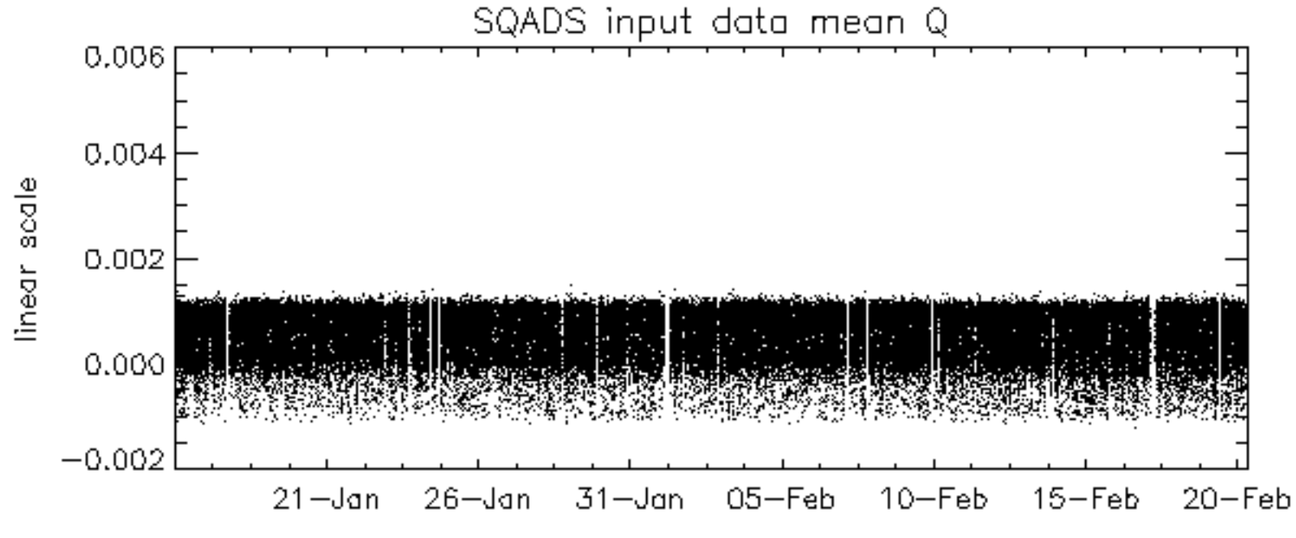
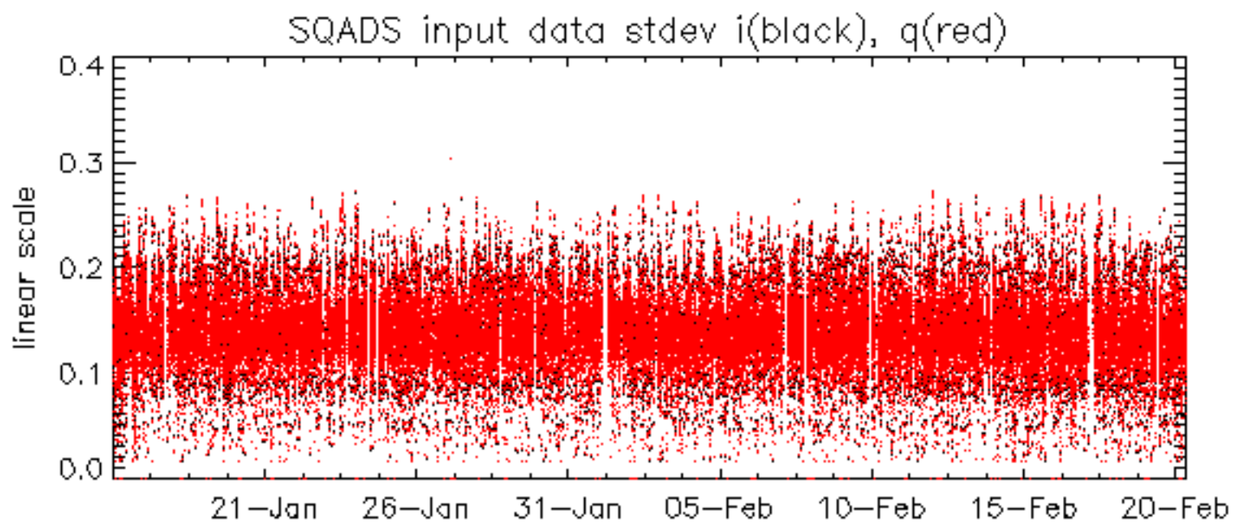
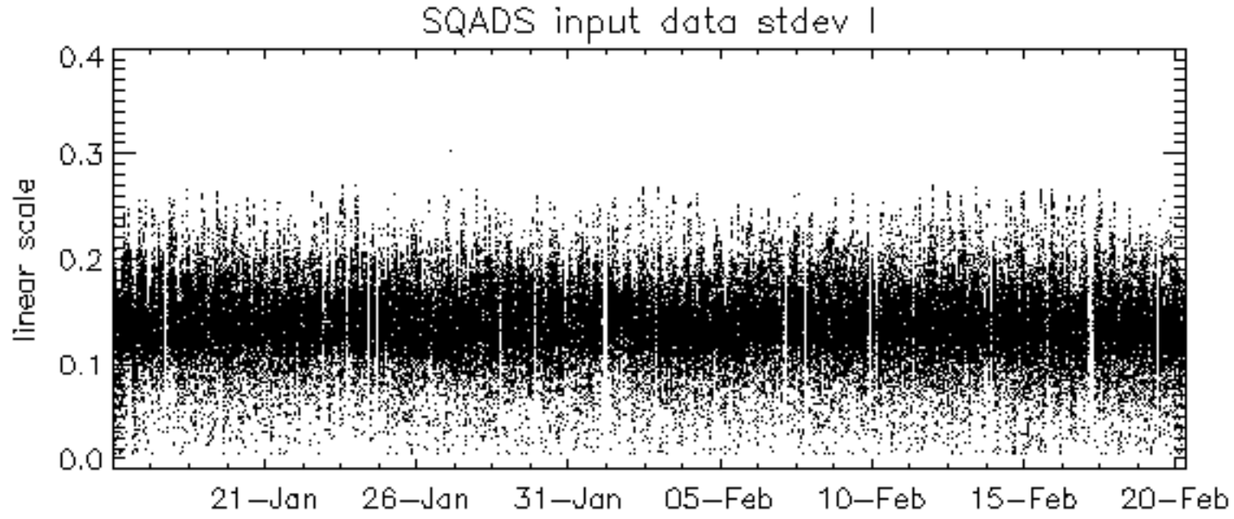

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

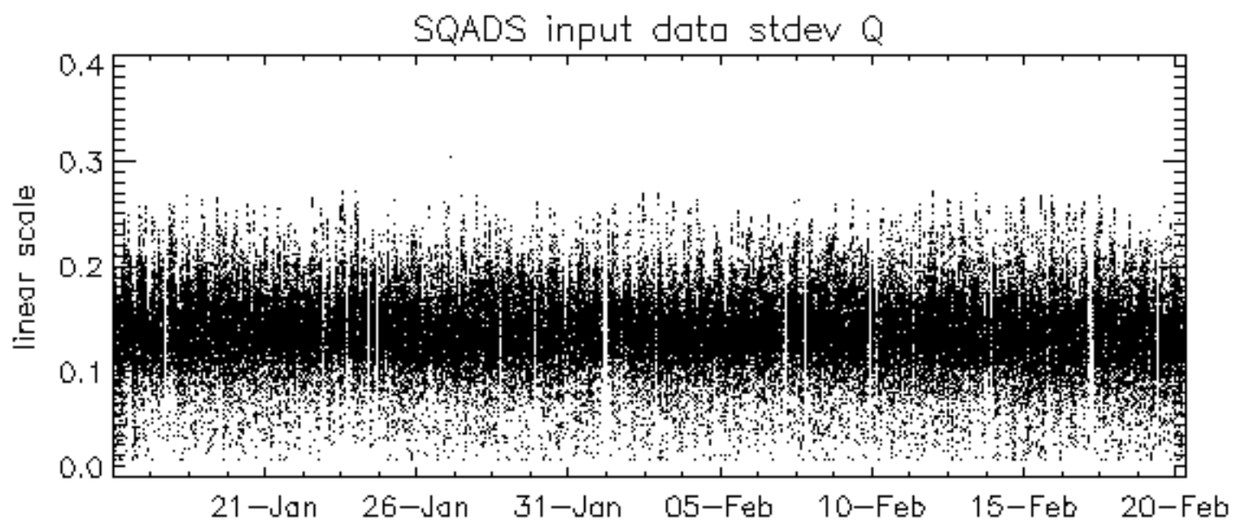

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb

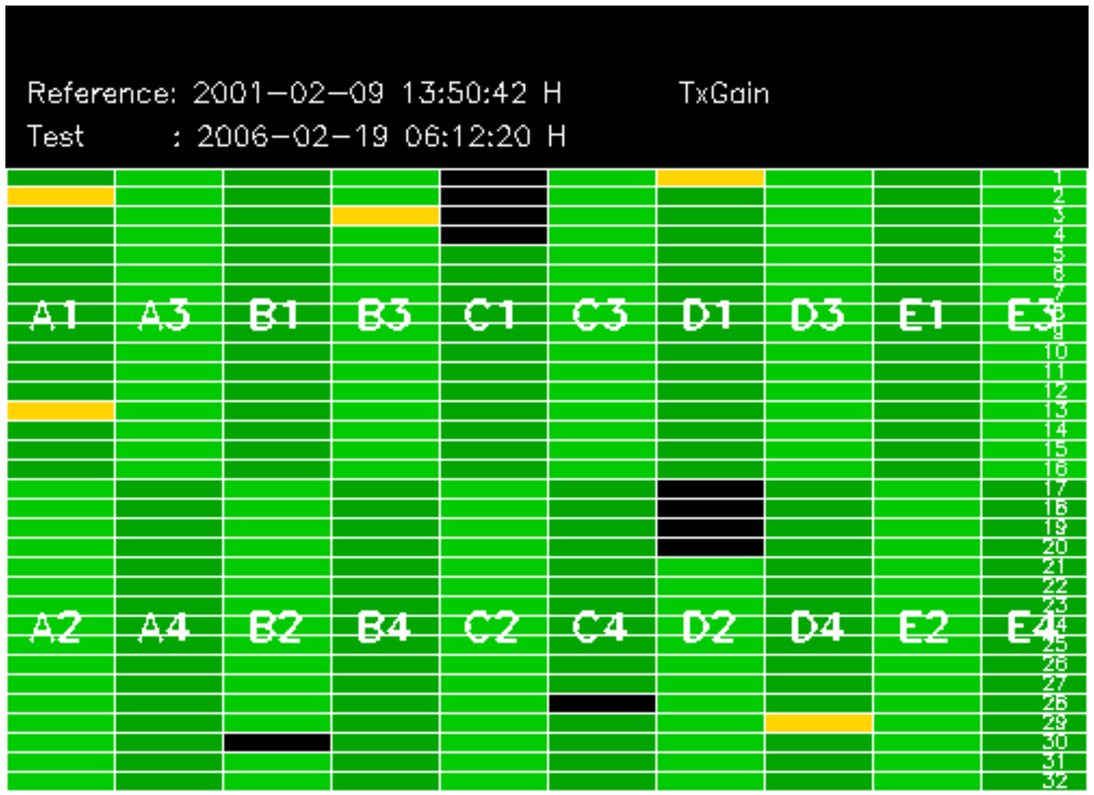

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb

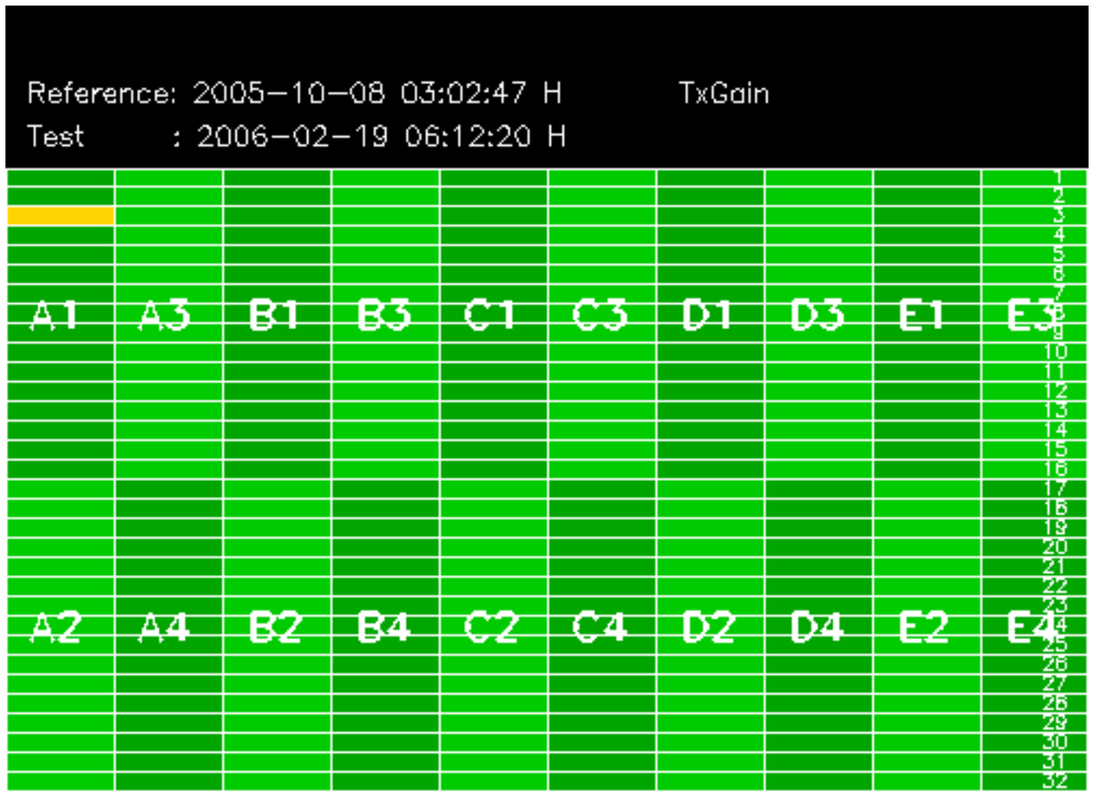

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb


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


Reference: 2001-02-09 13:50:42 H
Test : 2006-02-19 06:12:20 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2006-02-19 06:12:20 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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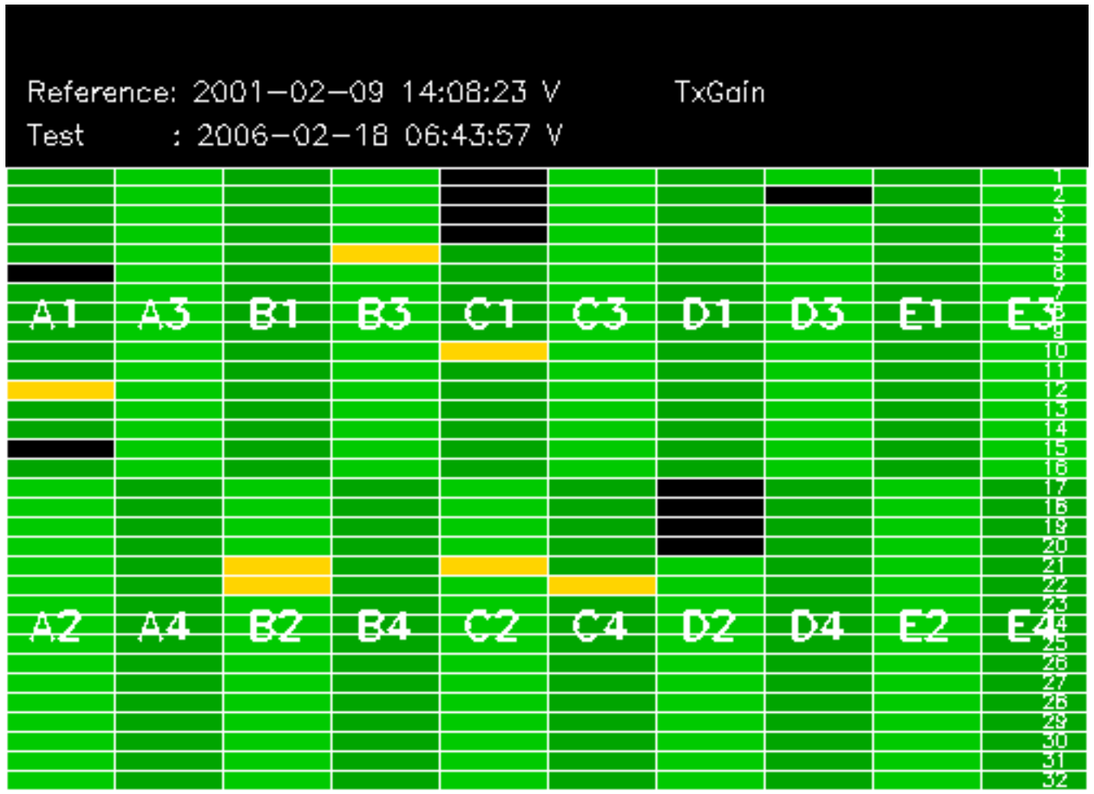
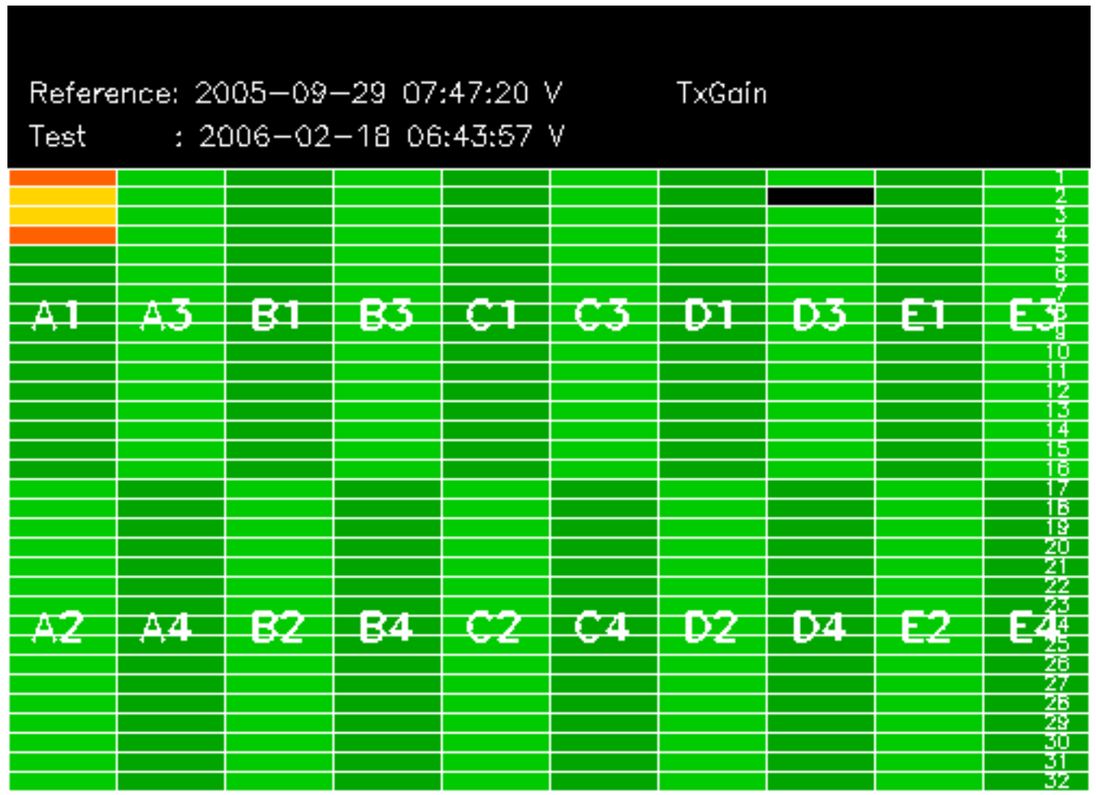

Reference: 2001-02-09 14:08:23 V
Test : 2006-02-18 06:43:57 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-02-18 06:43:57 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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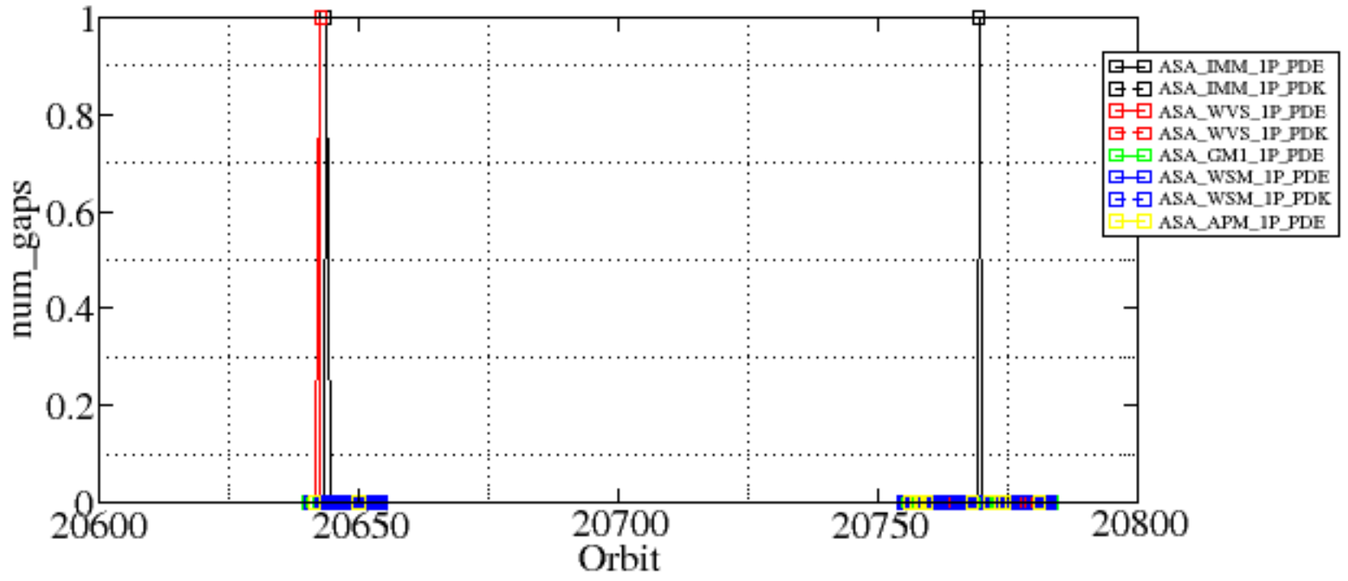
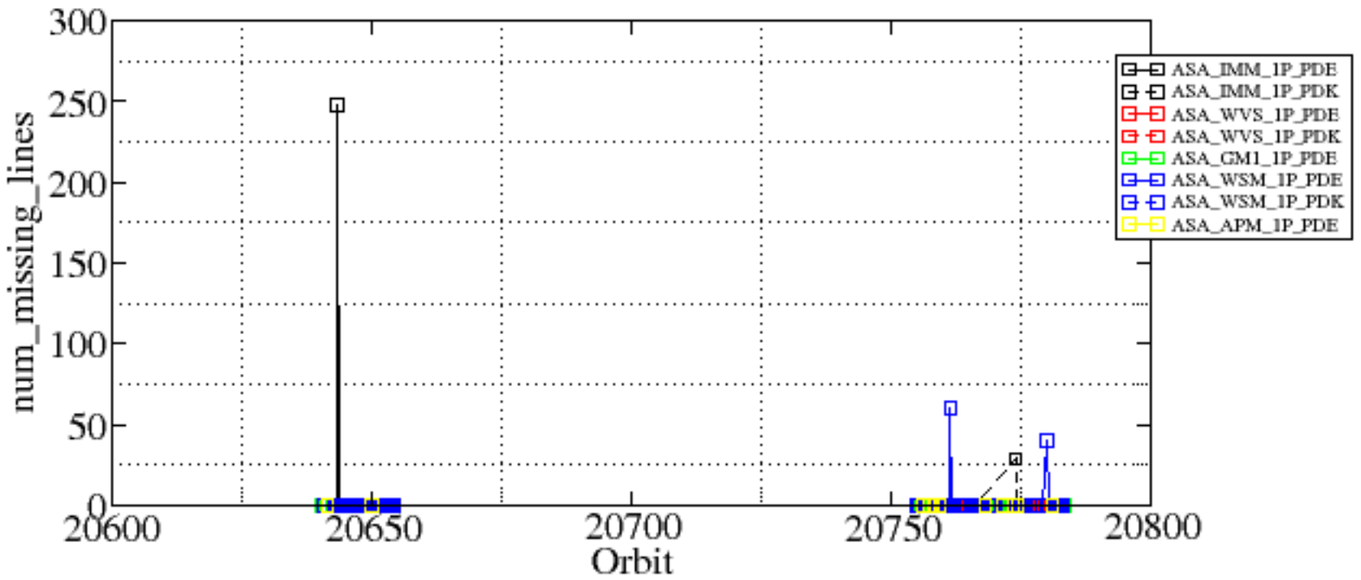
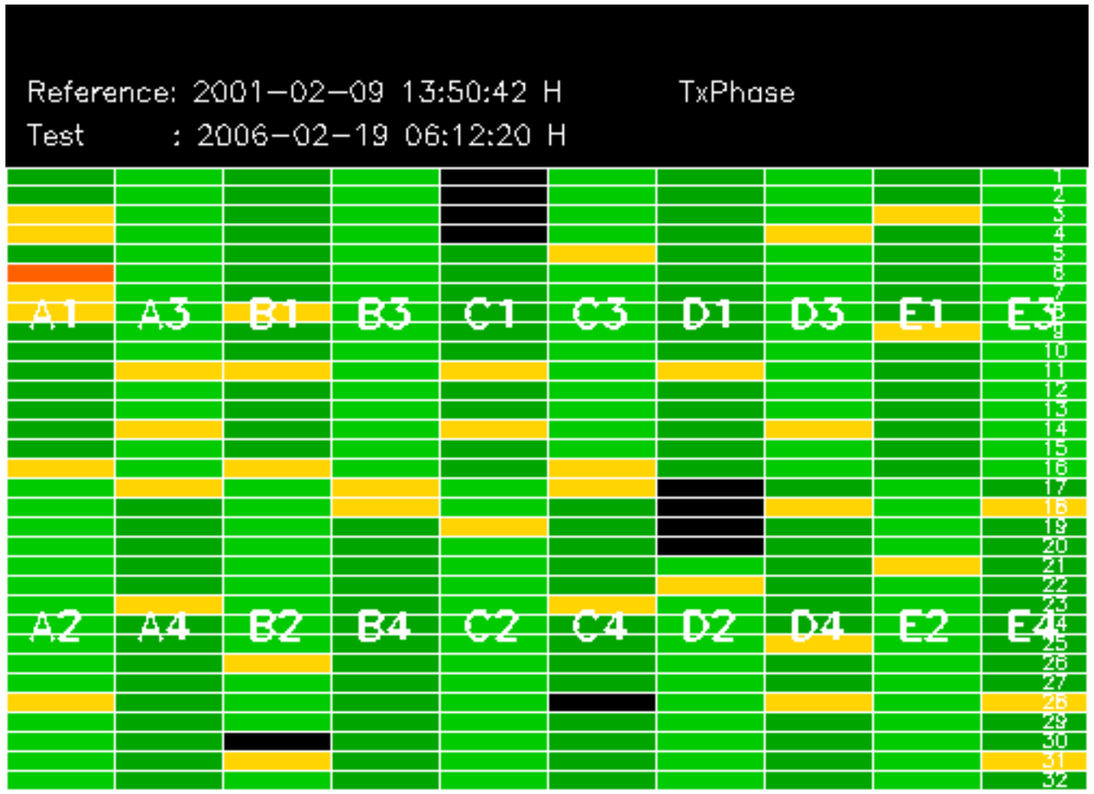
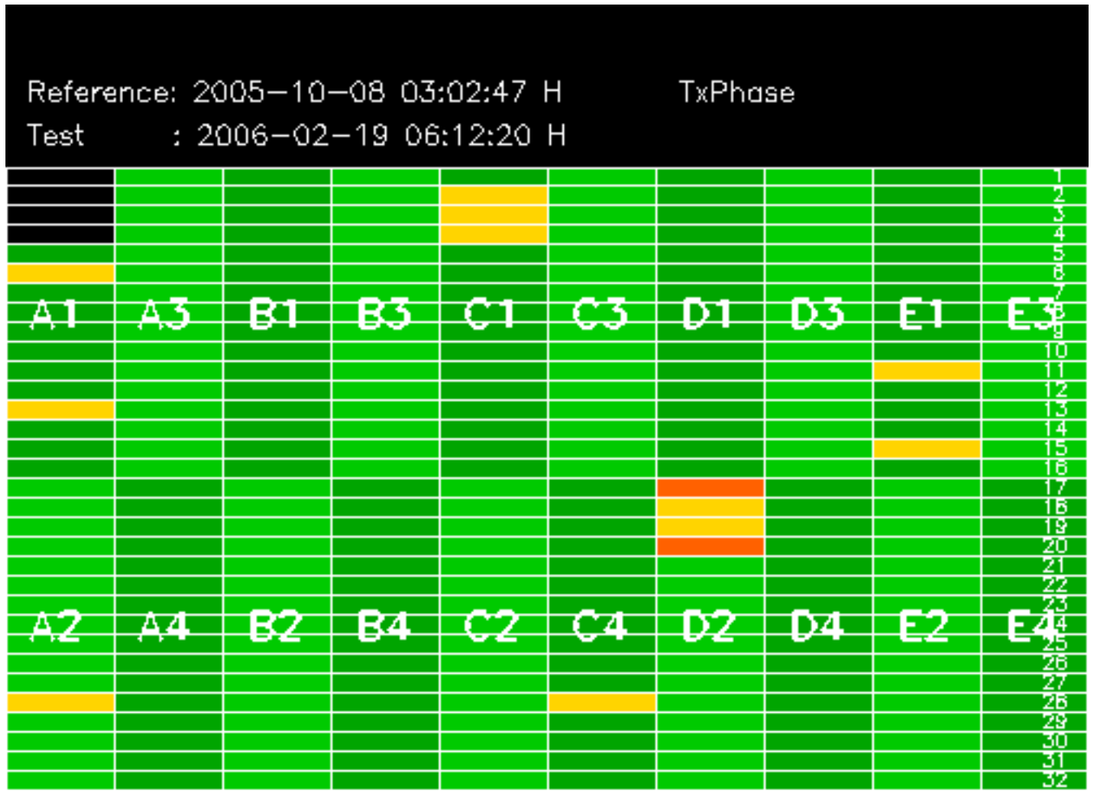
Summary of analysis for the last 3 days 2006021[890]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060210_052944_000000042045_00048_20643_2658.N1 </td> <td>0 </td> <td>248 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060210_054350_000000352045_00048_20643_2602.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060219_004051_000000622045_00174_20769_3606.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDK20060219_083053_000000502045_00179_20774_1057.N1 </td> <td>0 </td> <td>29 </td></tr>
<tr> <td>ASA_WVS_1PNPDE20060210_040752_000000002045_00047_20642_0876.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060218_112322_000001222045_00166_20761_5431.N1 </td> <td>0 </td> <td>60 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060219_183349_000001282045_00185_20780_5578.N1 </td> <td>0 </td> <td>40 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
20600
20650
20700
20750
20800
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


num_missing_lines
300
250
200
150
100
50
0
20600
20650
20700
20750
20800
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


Reference: 2001-02-09 13:50:42 H
Test : 2006-02-19 06:12:20 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2006-02-19 06:12:20 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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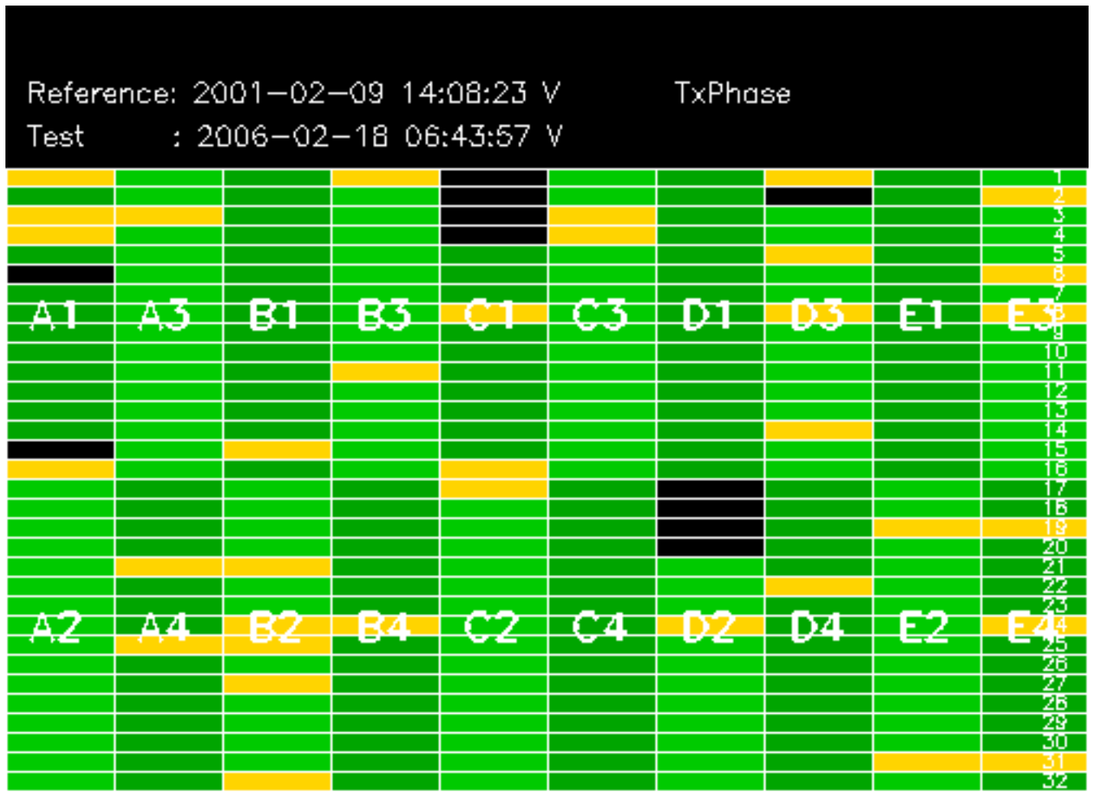
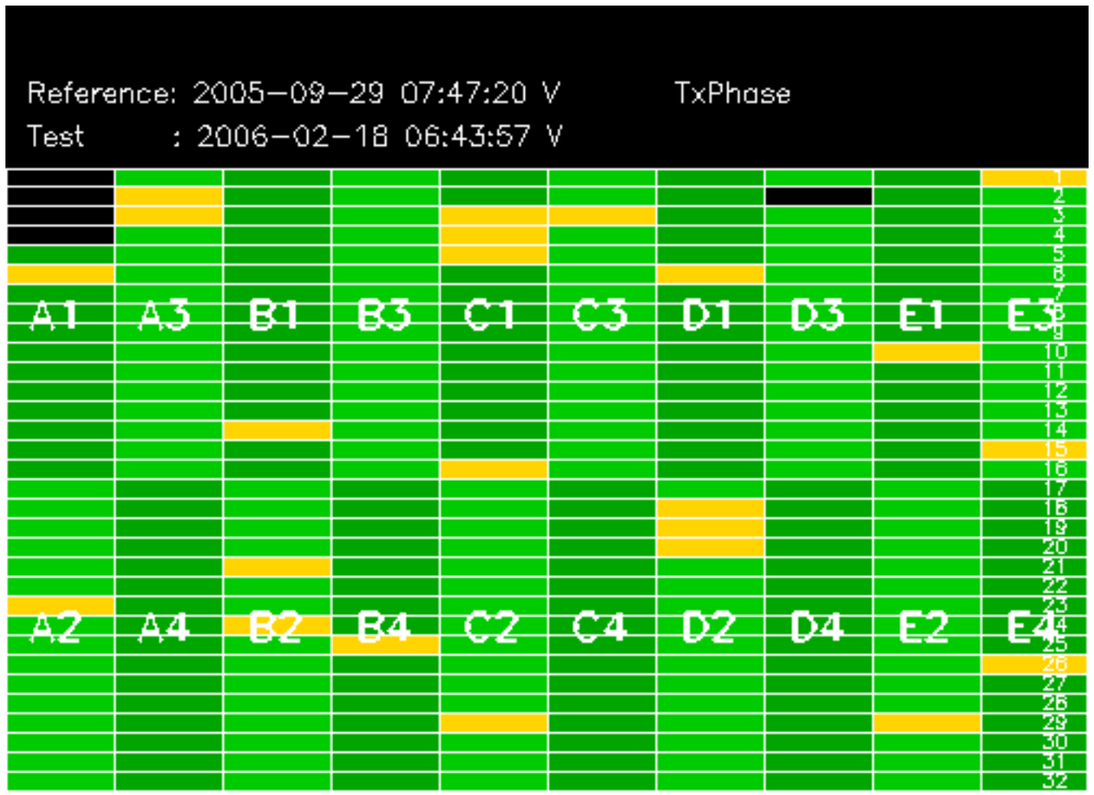

Reference: 2001-02-09 14:08:23 V
Test : 2006-02-18 06:43:57 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-02-18 06:43:57 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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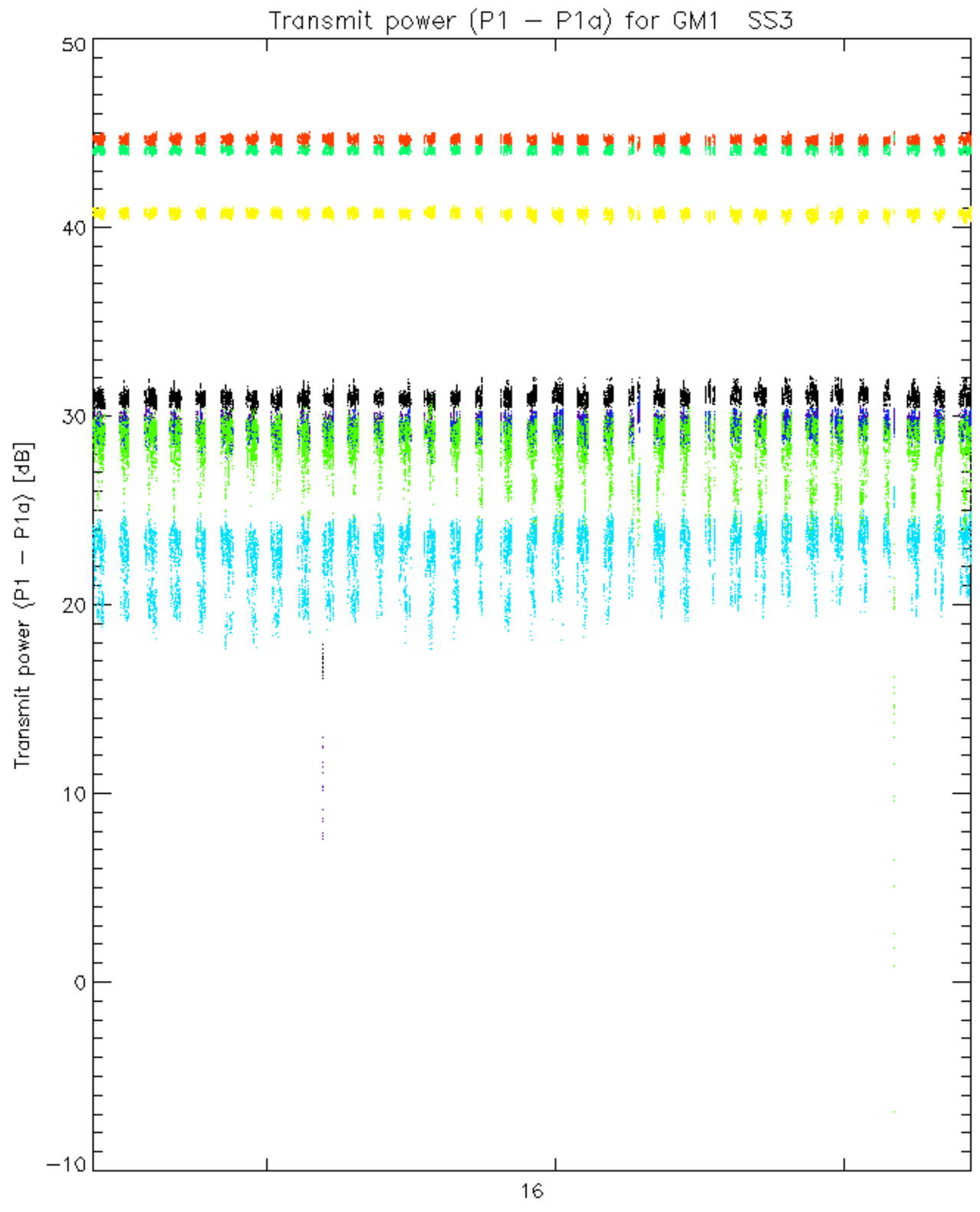
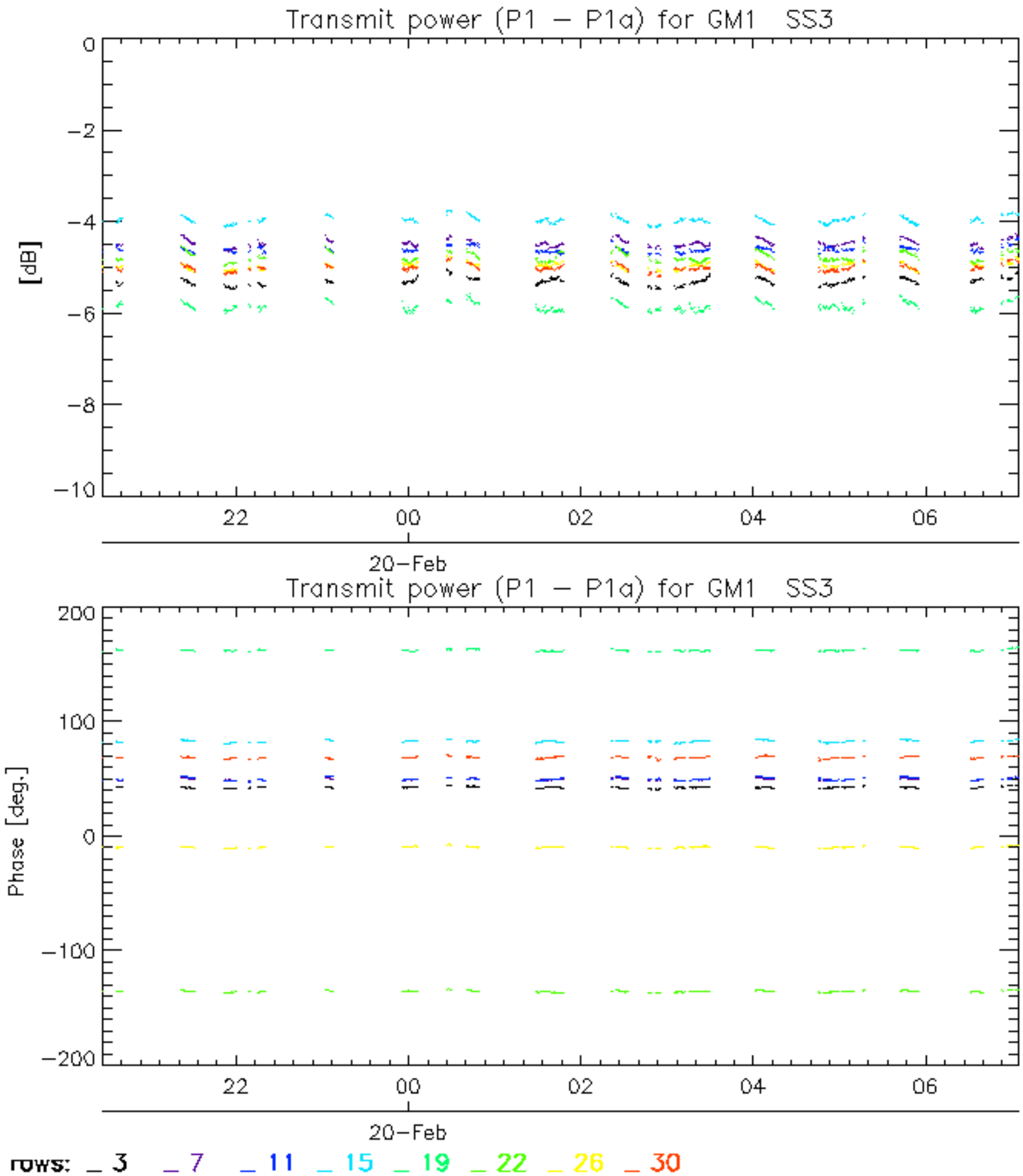
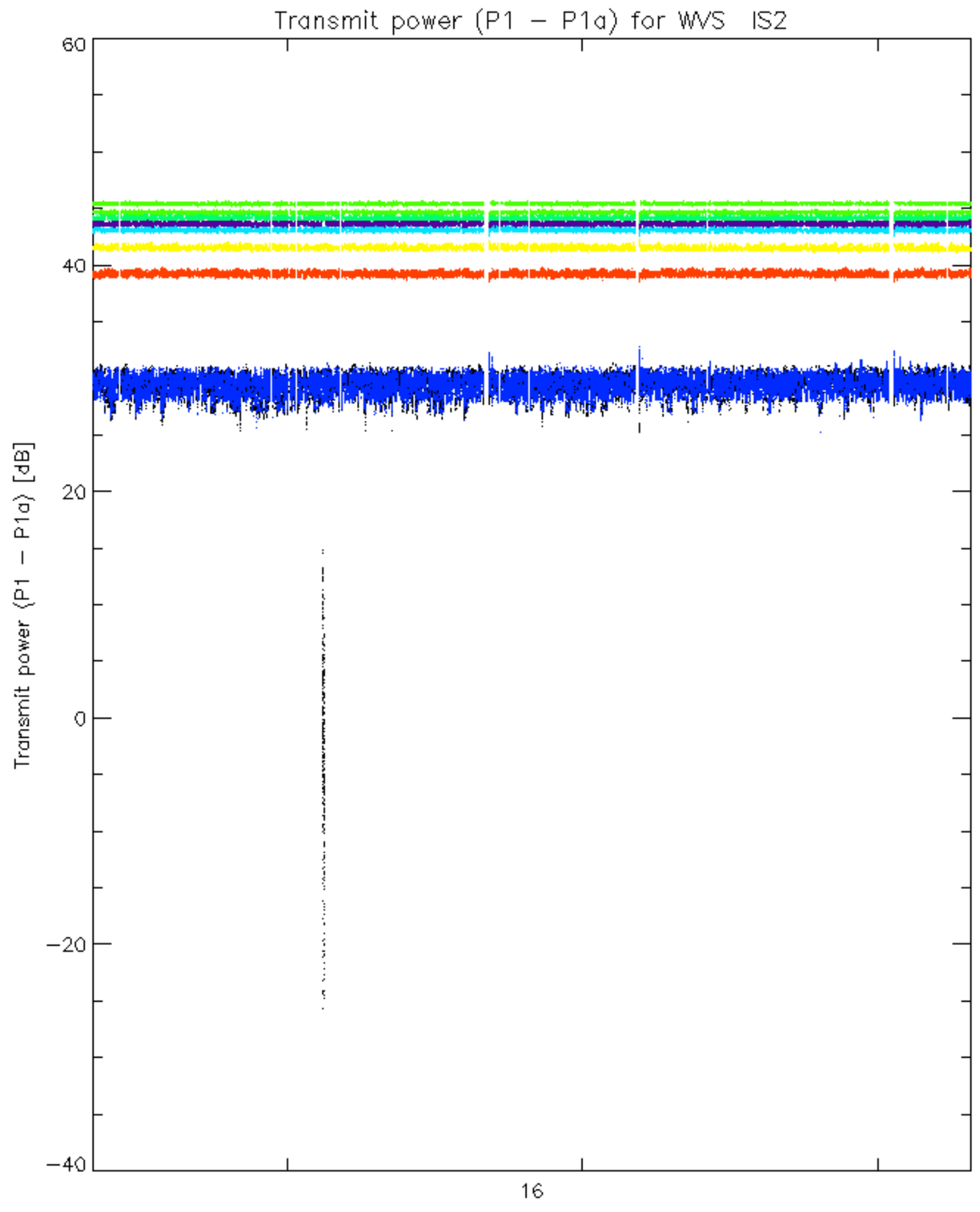
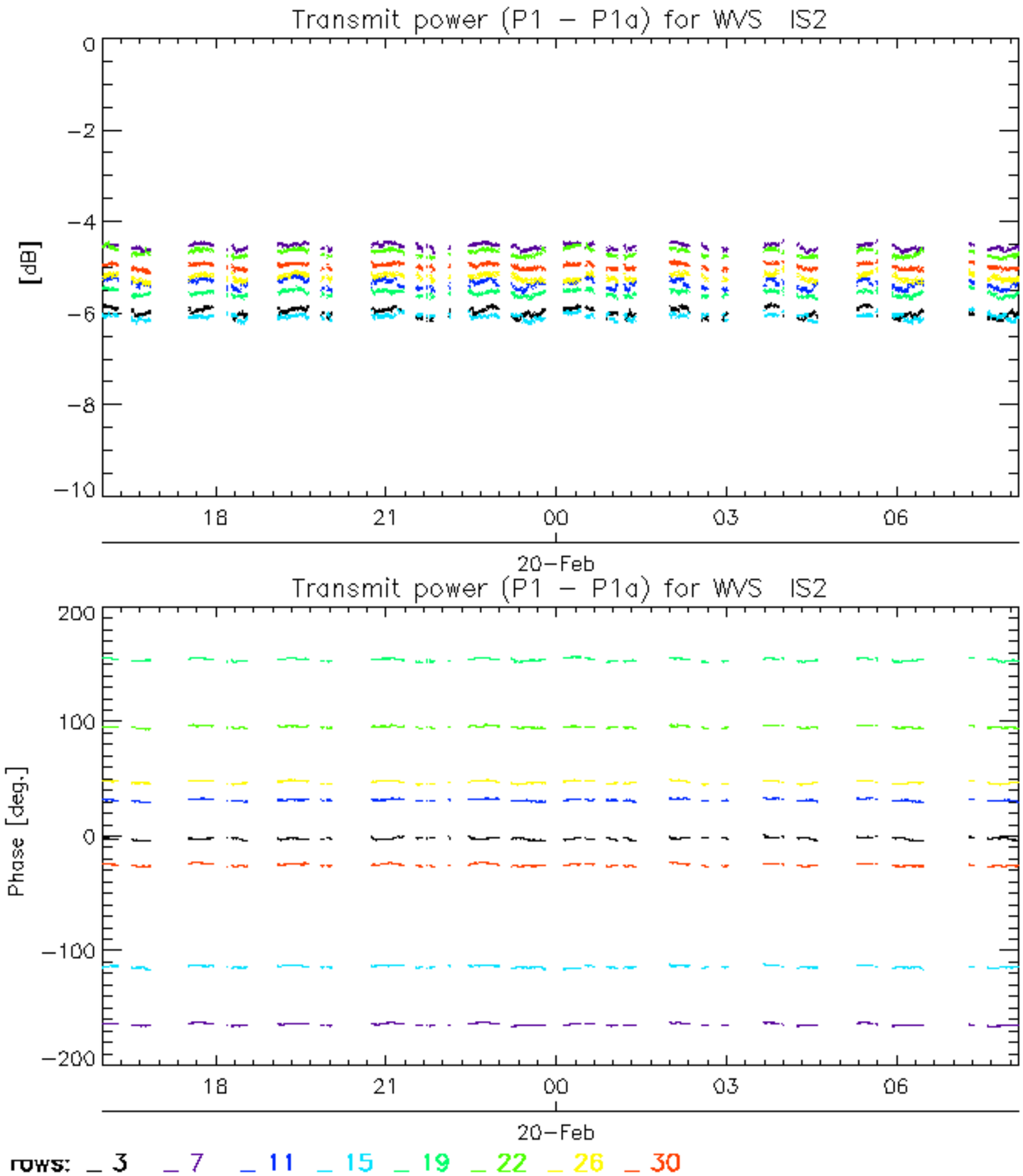

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
16
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
22
00
02
04
06
20−Feb
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
22
00
02
04
06
20−Feb
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
60
40
20
0
−20
−40
16
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
20−Feb
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
20−Feb
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.