PRELIMINARY REPORT OF 060203

last update on Fri Feb 3 16:38:48 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 2006-02-02 00:00:00 to 2006-02-03 16:38:48

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	46	0	10	1	31
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	46	0	10	1	31
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	46	0	10	1	31
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	46	0	10	1	31

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	46	42	31	11	41
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	46	42	31	11	41
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	46	42	31	11	41
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	46	42	31	11	41

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	20060202 100800
H	20060201 071825

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	-4.024030	0.007837	0.057546
7	P1	-3.002622	0.013655	-0.010910
11	P1	-4.096174	0.022415	0.017547
15	P1	-6.060723	0.017517	0.009717
19	P1	-3.252173	0.006261	-0.020989
22	P1	-4.479050	0.019284	0.022953
26	P1	-4.204894	0.013009	0.041634
30	P1	-5.771609	0.010068	-0.000793
3	P1	-16.920078	0.265511	0.131312
7	P1	-16.630646	0.125757	-0.093296
11	P1	-16.600866	0.299626	-0.010340
15	P1	-13.208978	0.114602	0.120062
19	P1	-13.885535	0.073402	-0.023953
22	P1	-15.854329	0.566647	0.233421
26	P1	-15.766115	0.250516	0.041044
30	P1	-16.590548	0.325013	0.009882

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.586321	0.093856	0.133975
7	P2	-22.456860	0.097195	0.103532
11	P2	-16.289656	0.103726	0.089829
15	P2	-7.206250	0.104186	0.052837
19	P2	-9.167481	0.098628	0.028876
22	P2	-17.940111	0.094333	-0.015891
26	P2	-16.217197	0.101587	0.006068
30	P2	-19.648020	0.084808	0.030659

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.208230	0.007379	0.027286
7	P3	-8.208230	0.007379	0.027286
11	P3	-8.208230	0.007379	0.027286
15	P3	-8.208230	0.007379	0.027286
19	P3	-8.208230	0.007379	0.027286
22	P3	-8.208230	0.007379	0.027286
26	P3	-8.208230	0.007379	0.027286
30	P3	-8.208230	0.007379	0.027286

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	-3.725682	0.010957	-0.023439
7	P1	-2.744843	0.007551	0.032273
11	P1	-2.868322	0.011460	-0.032209
15	P1	-3.470606	0.019142	-0.065547
19	P1	-3.378304	0.012459	-0.011621
22	P1	-5.126803	0.021431	-0.043987
26	P1	-5.852826	0.015806	-0.002086
30	P1	-5.241526	0.028924	0.031191
3	P1	-11.527588	0.038942	-0.033714
7	P1	-9.918297	0.048197	0.000109
11	P1	-10.091098	0.050124	-0.104737
15	P1	-10.631401	0.088284	-0.073002
19	P1	-15.470565	0.060258	0.033931
22	P1	-20.563145	1.240095	0.350118

26	P1	-16.750265	0.340078	0.381147
30	P1	-18.166256	0.322239	-0.090677

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.390175	0.034726	0.200932
7	P2	-22.828588	0.064394	0.188100
11	P2	-11.411572	0.021641	0.124934
15	P2	-4.906263	0.026766	0.060388
19	P2	-6.911108	0.023276	0.042002
22	P2	-8.189409	0.023589	0.003950
26	P2	-23.963484	0.025448	0.032146
30	P2	-22.091402	0.019159	0.017208

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.047641	0.002563	0.035375
7	P3	-8.047550	0.002563	0.034755
11	P3	-8.047651	0.002553	0.035283
15	P3	-8.047751	0.002581	0.035173
19	P3	-8.047740	0.002563	0.035039
22	P3	-8.047658	0.002560	0.034672
26	P3	-8.047627	0.002564	0.034530
30	P3	-8.047636	0.002575	0.035310

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	0.000564876
	stdev	1.65829e-07
MEAN Q	mean	0.000524186
	stdev	2.12421e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.139820
	stdev	0.00117109
STDEV Q	mean	0.140185
	stdev	0.00119054

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006020[123]
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

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
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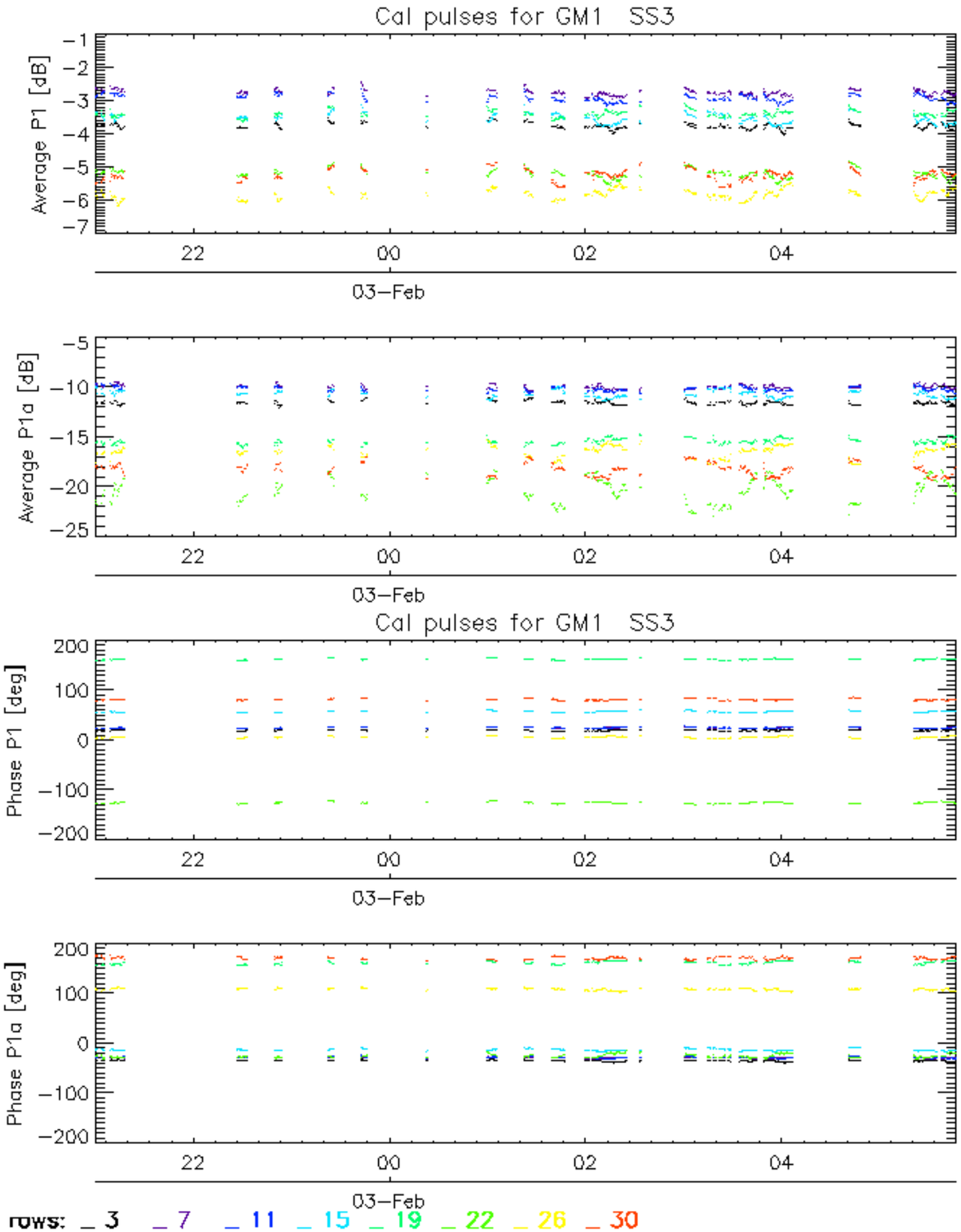
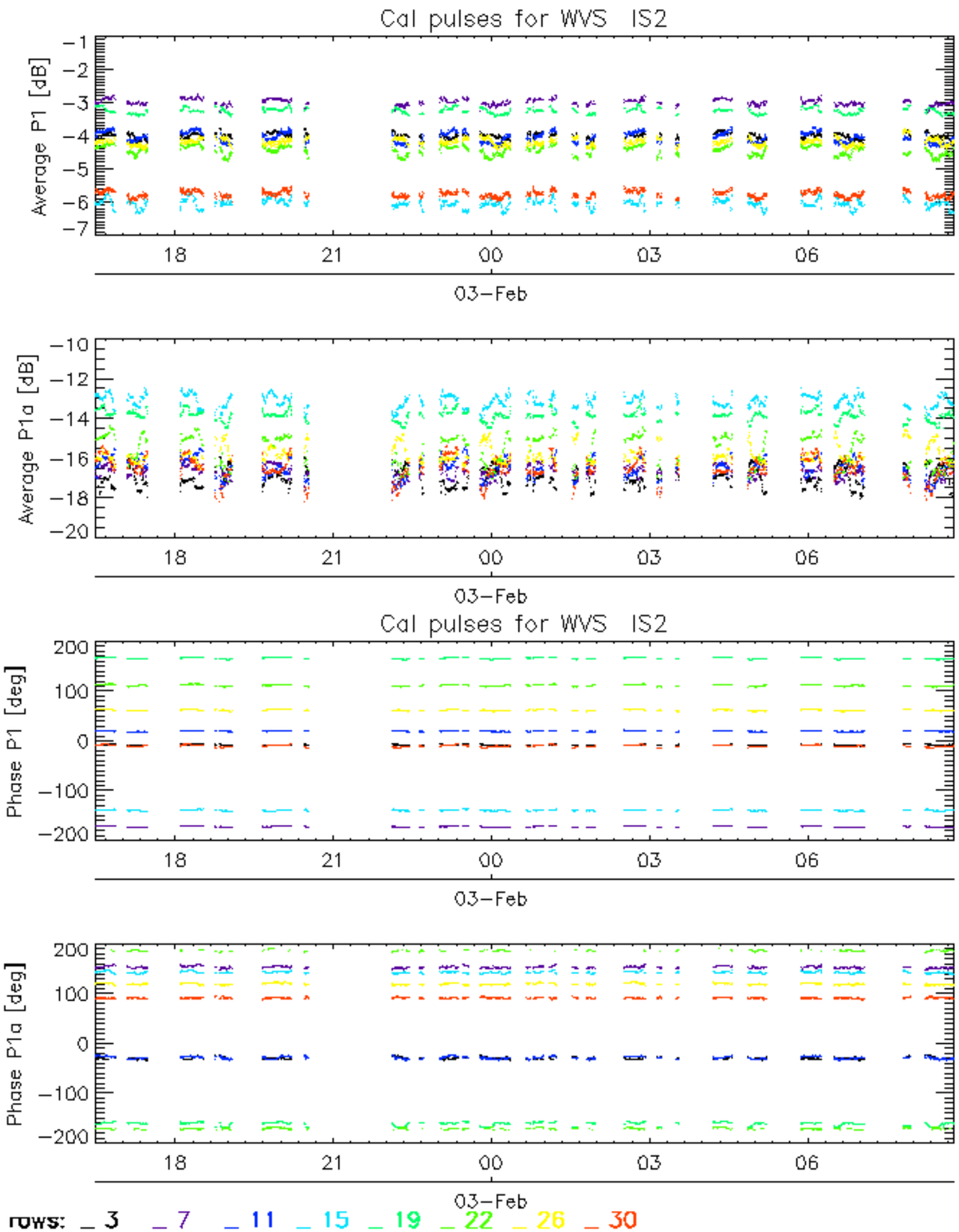
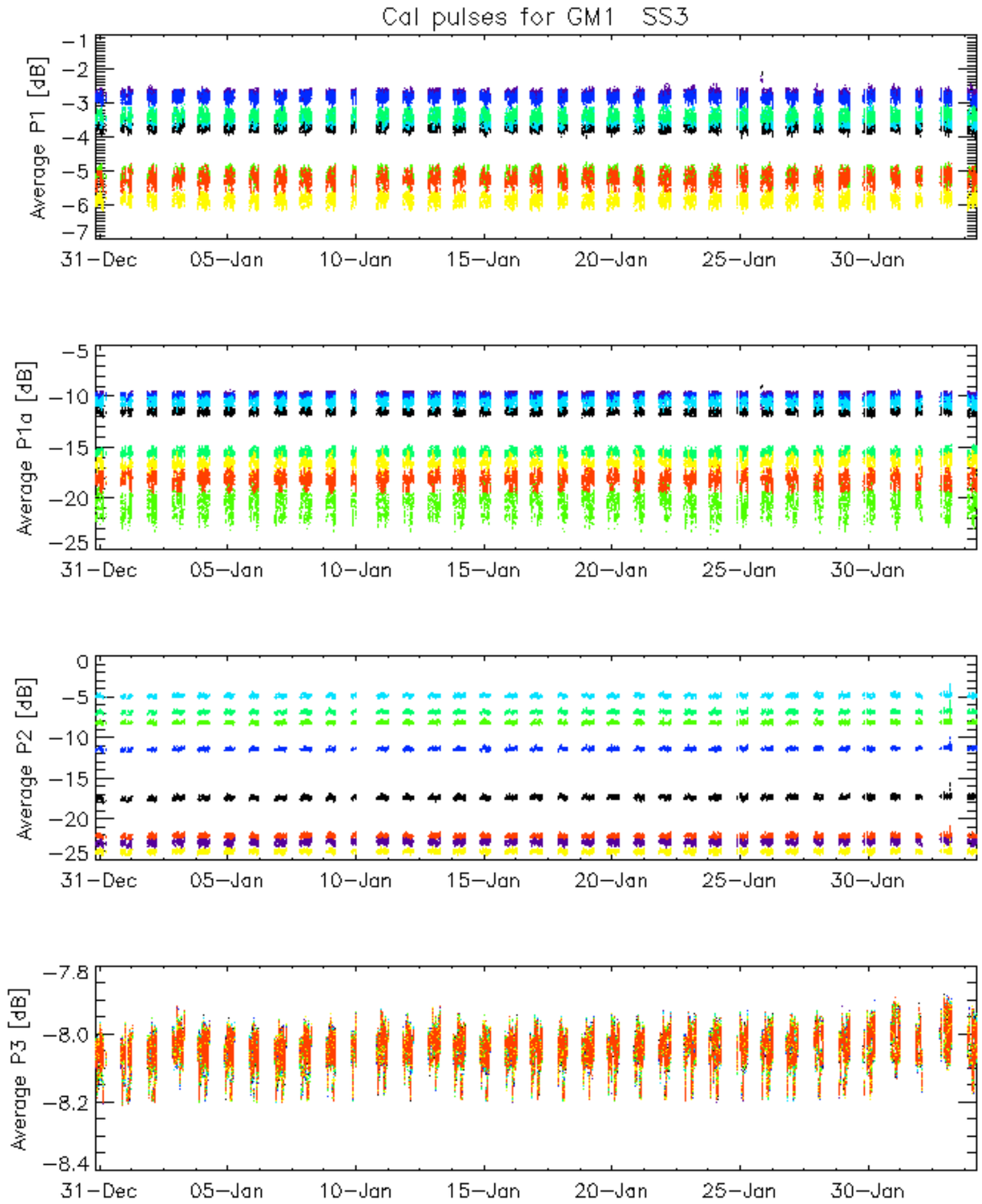
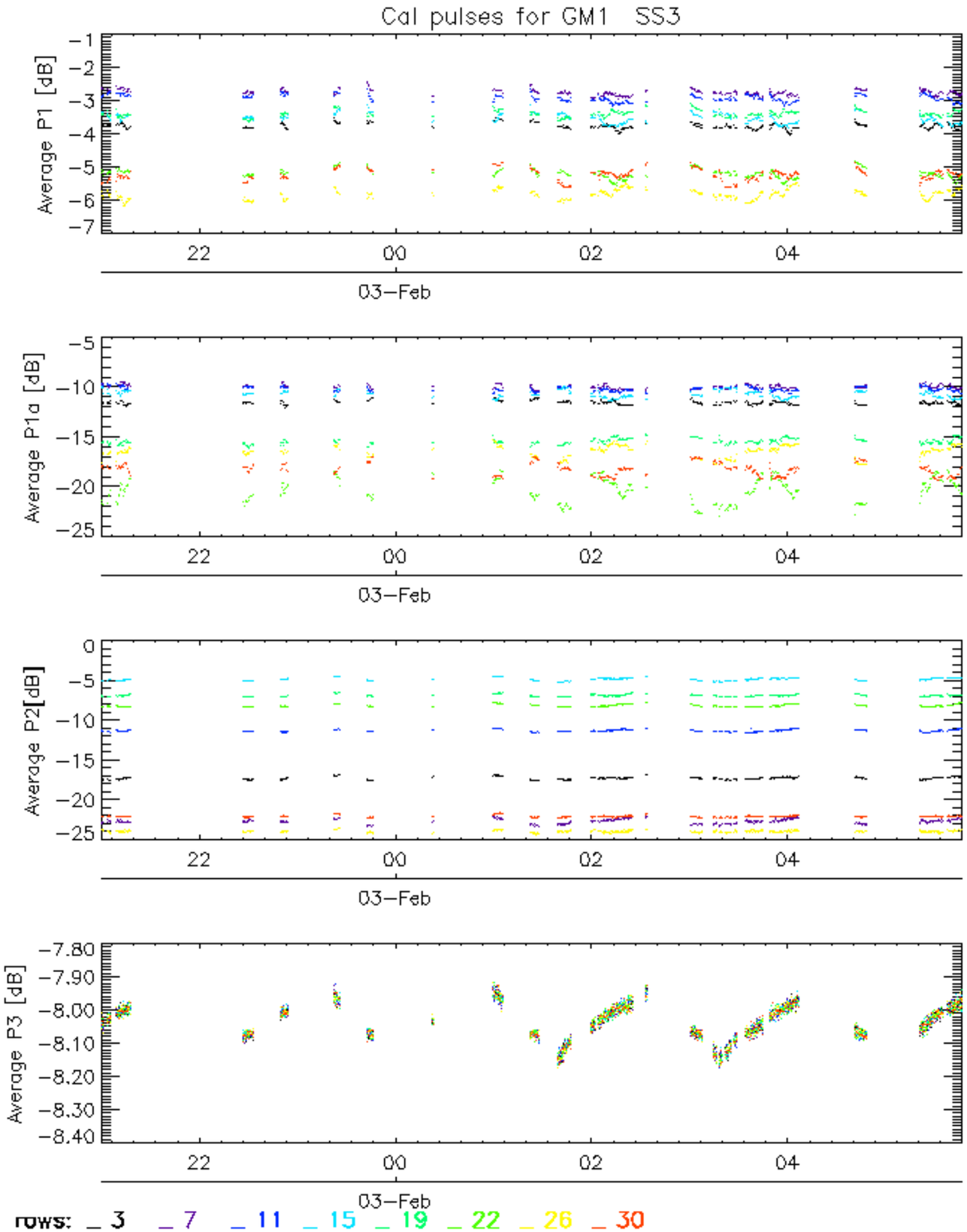
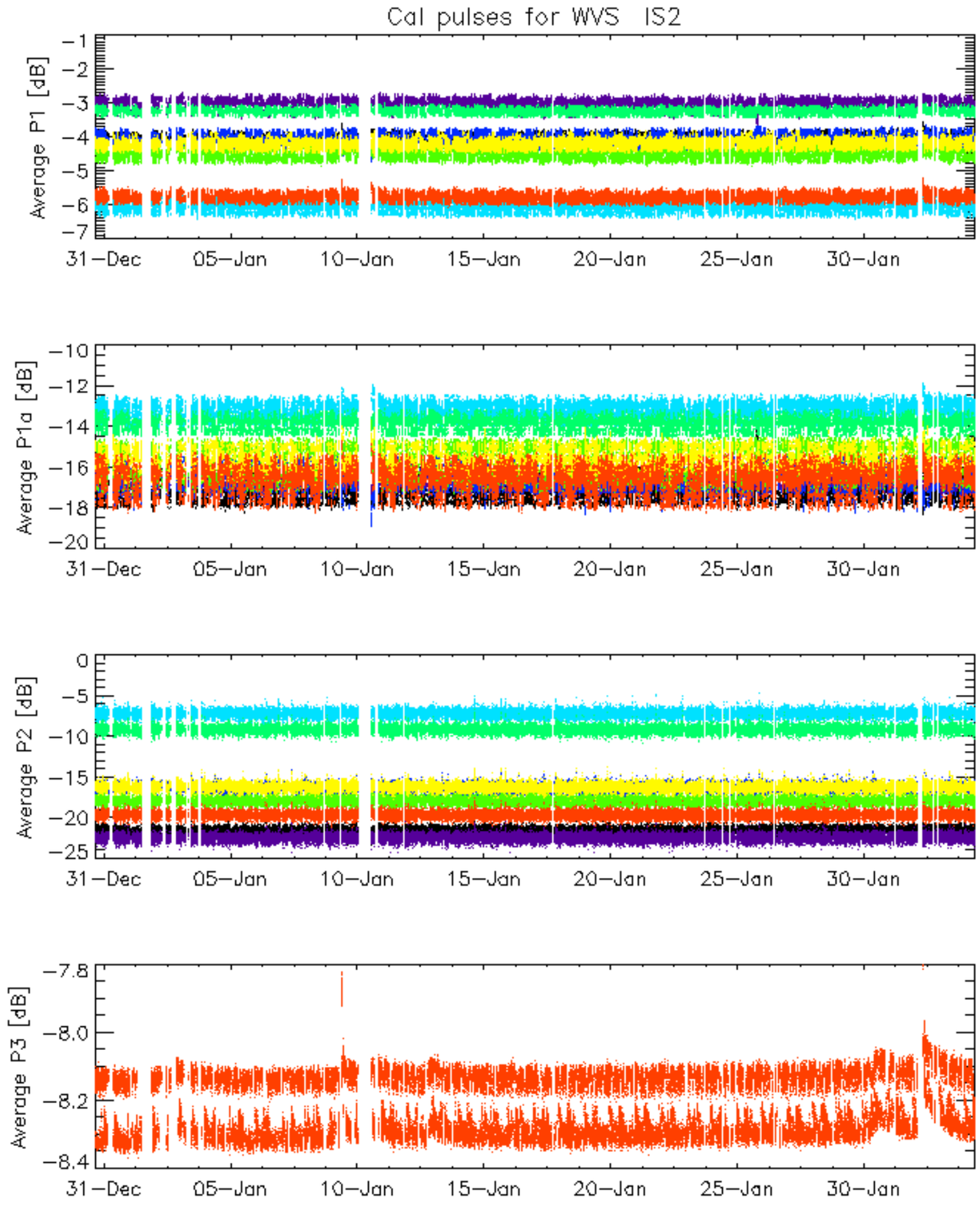
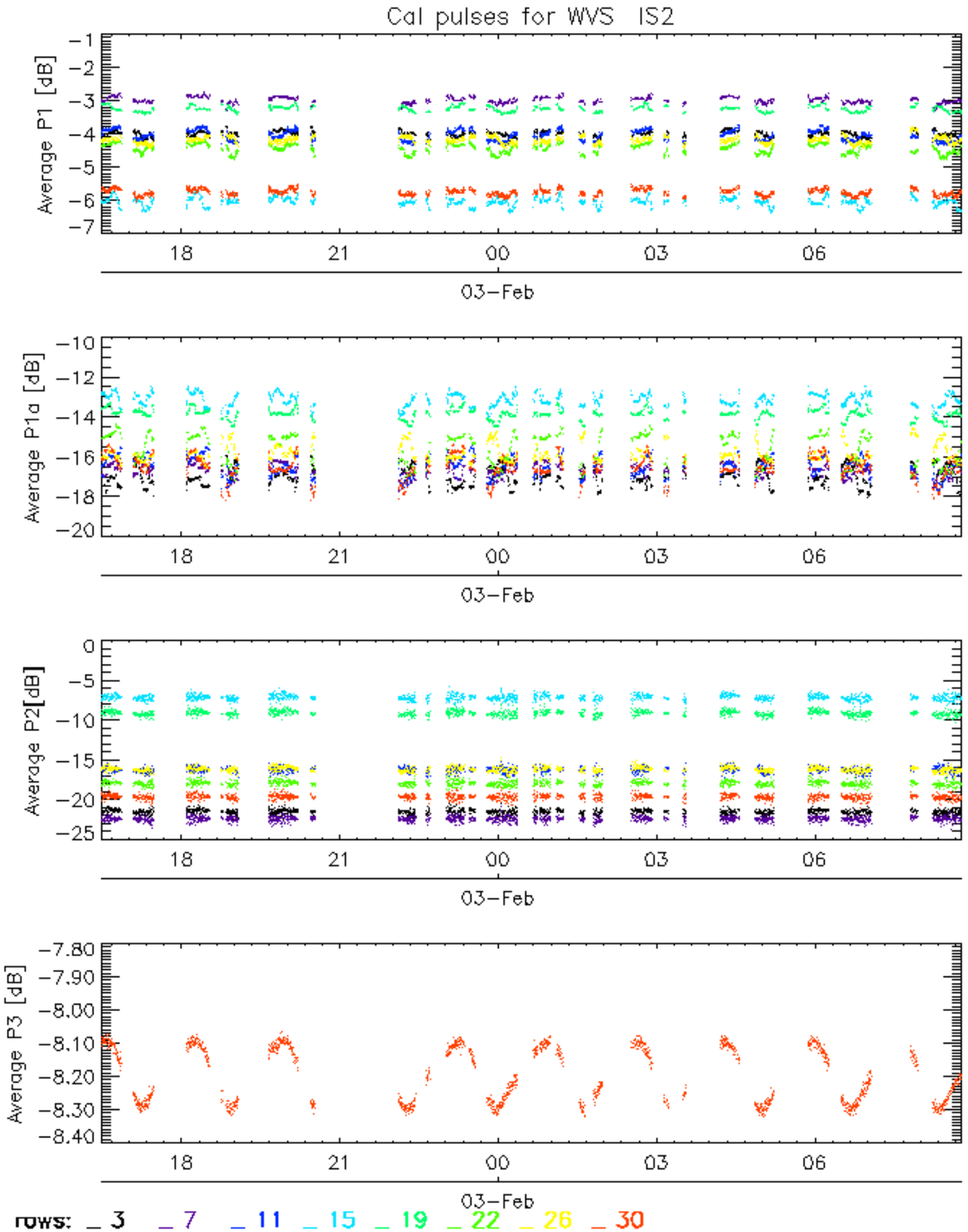

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
22
00
02
04
03−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
22
00
02
04
03−Feb
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
22
00
02
04
03−Feb
Phase P1a [deg]
200
100
0
−100
−200
22
00
02
04
03−Feb
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
03−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
03−Feb
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
03−Feb
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
03−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
31−Dec
05−Jan
10−Jan
15−Jan
20−Jan
25−Jan
30−Jan
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

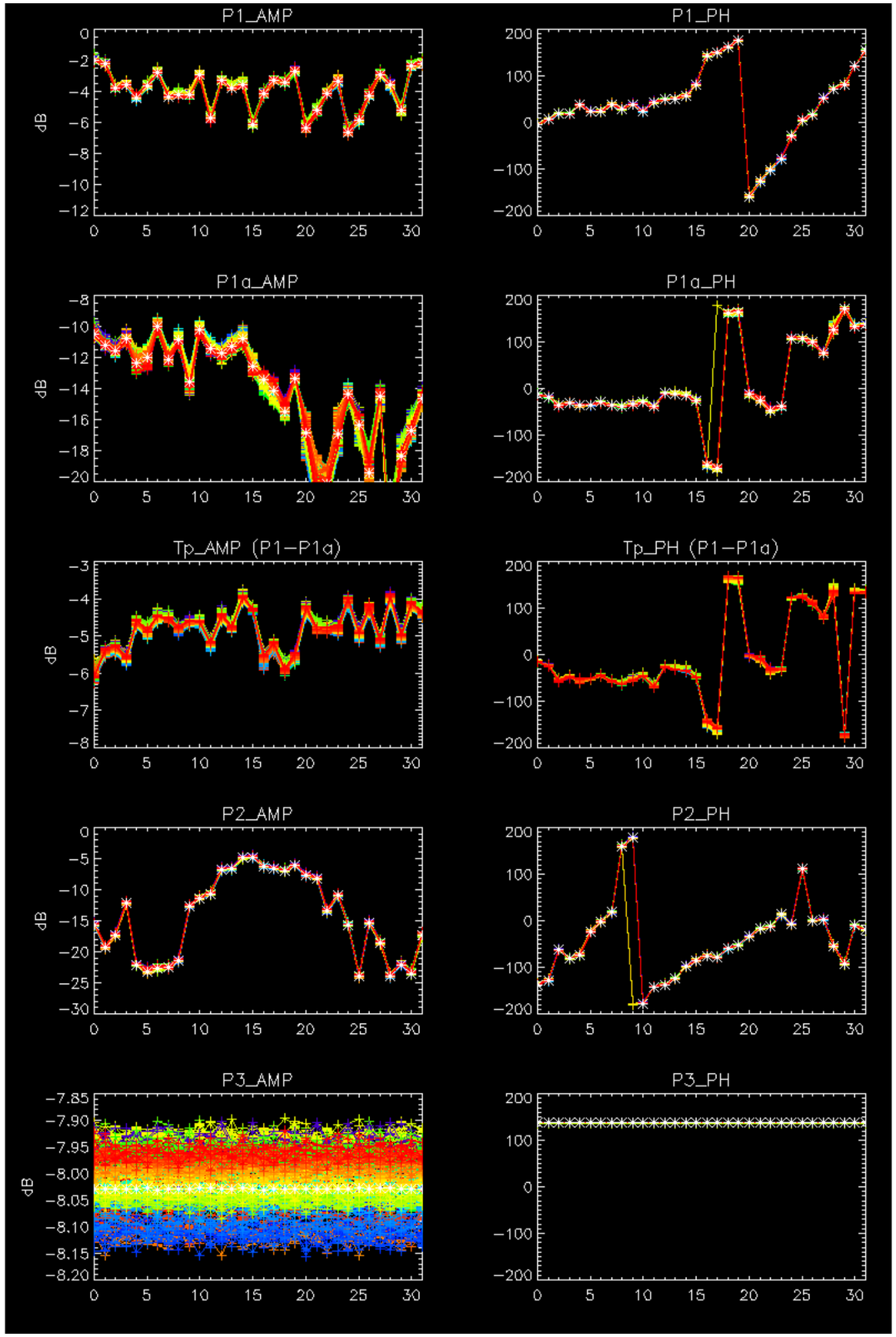

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
22
00
02
04
03−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
22
00
02
04
03−Feb
Average P2[dB]
0
−5
−10
−15
−20
−25
22
00
02
04
03−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
22
00
02
04
03−Feb
rows: 3 7 11 15 19 22 26 30

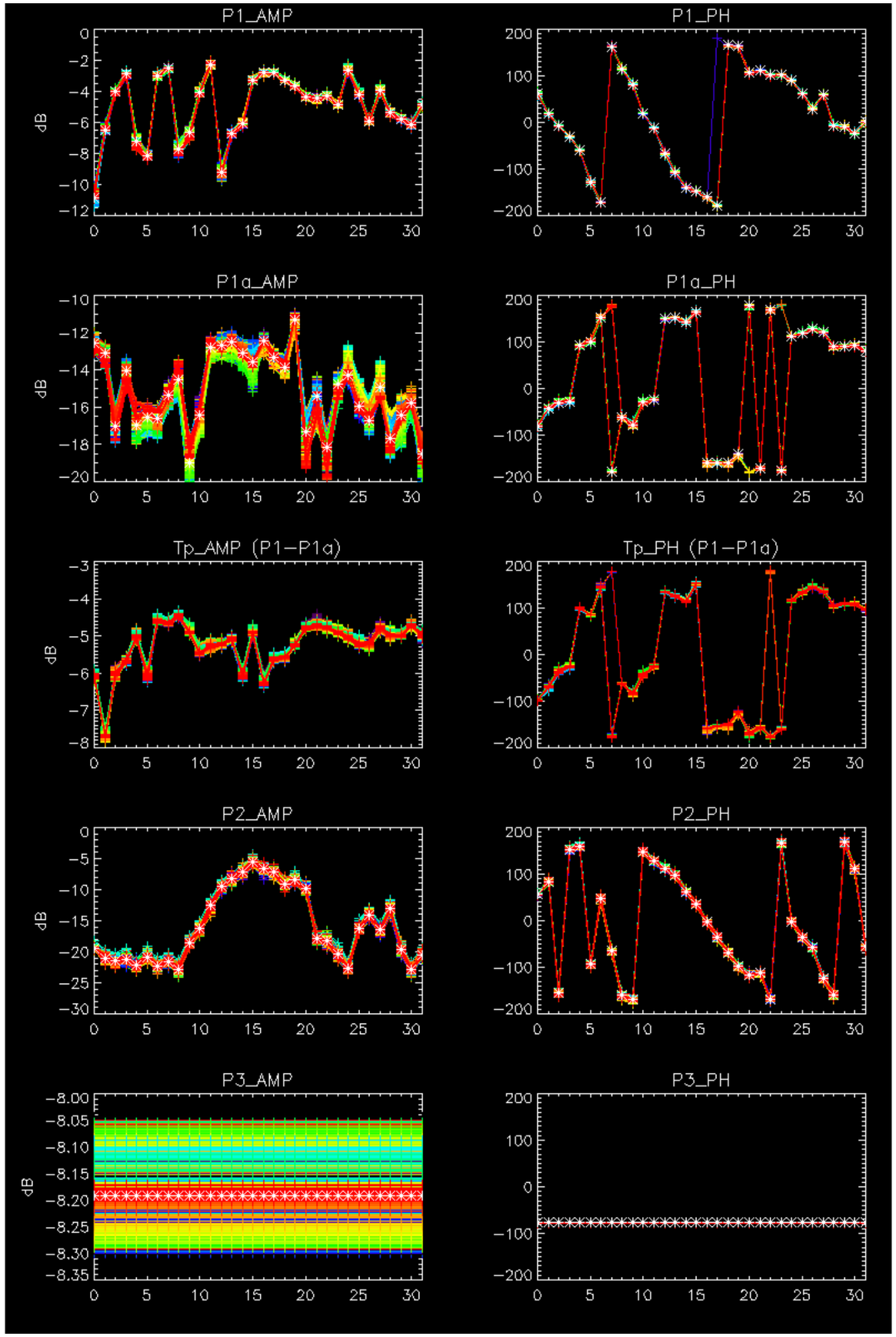

Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
31−Dec
05−Jan
10−Jan
15−Jan
20−Jan
25−Jan
30−Jan
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

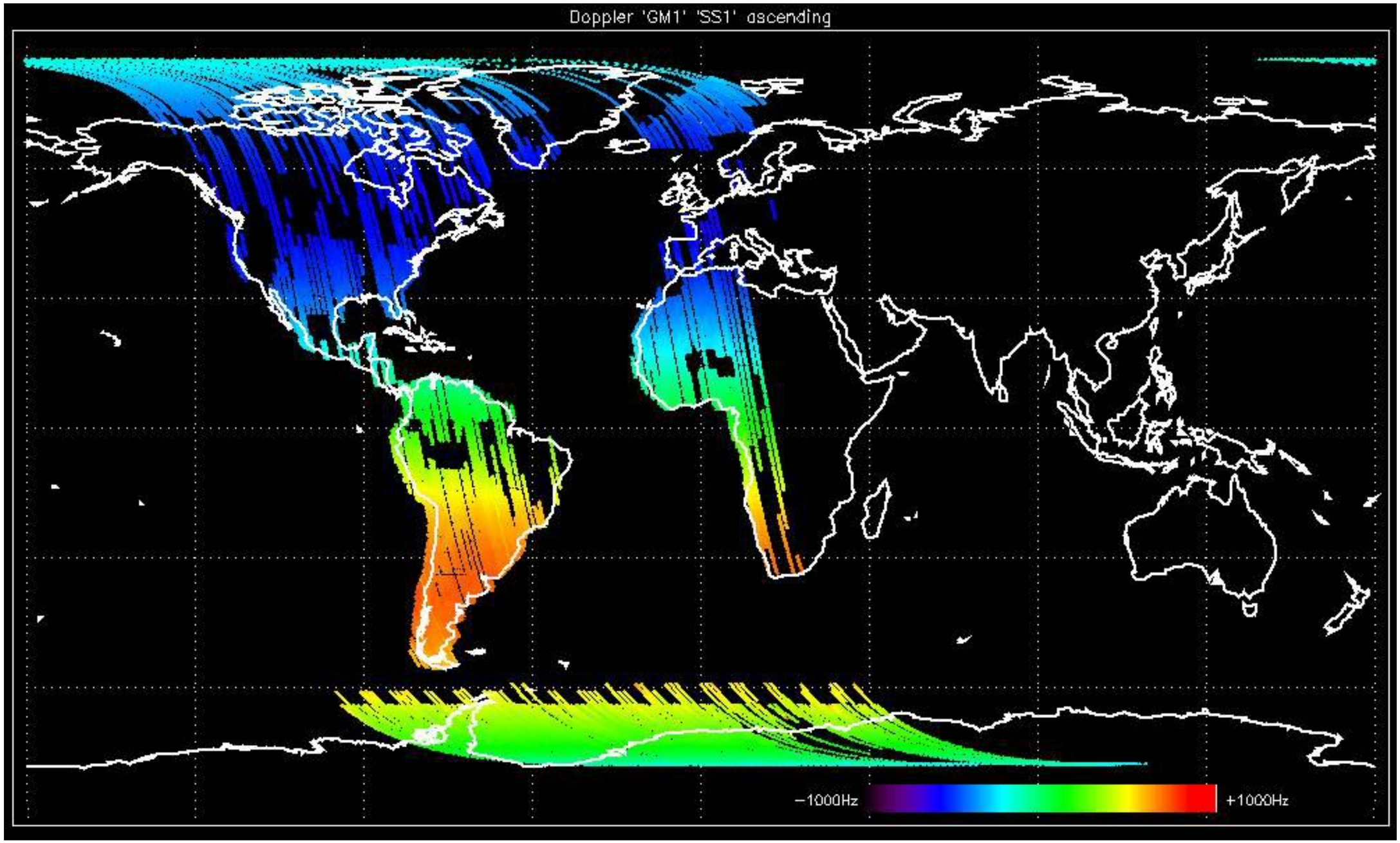
No anomalies observed.

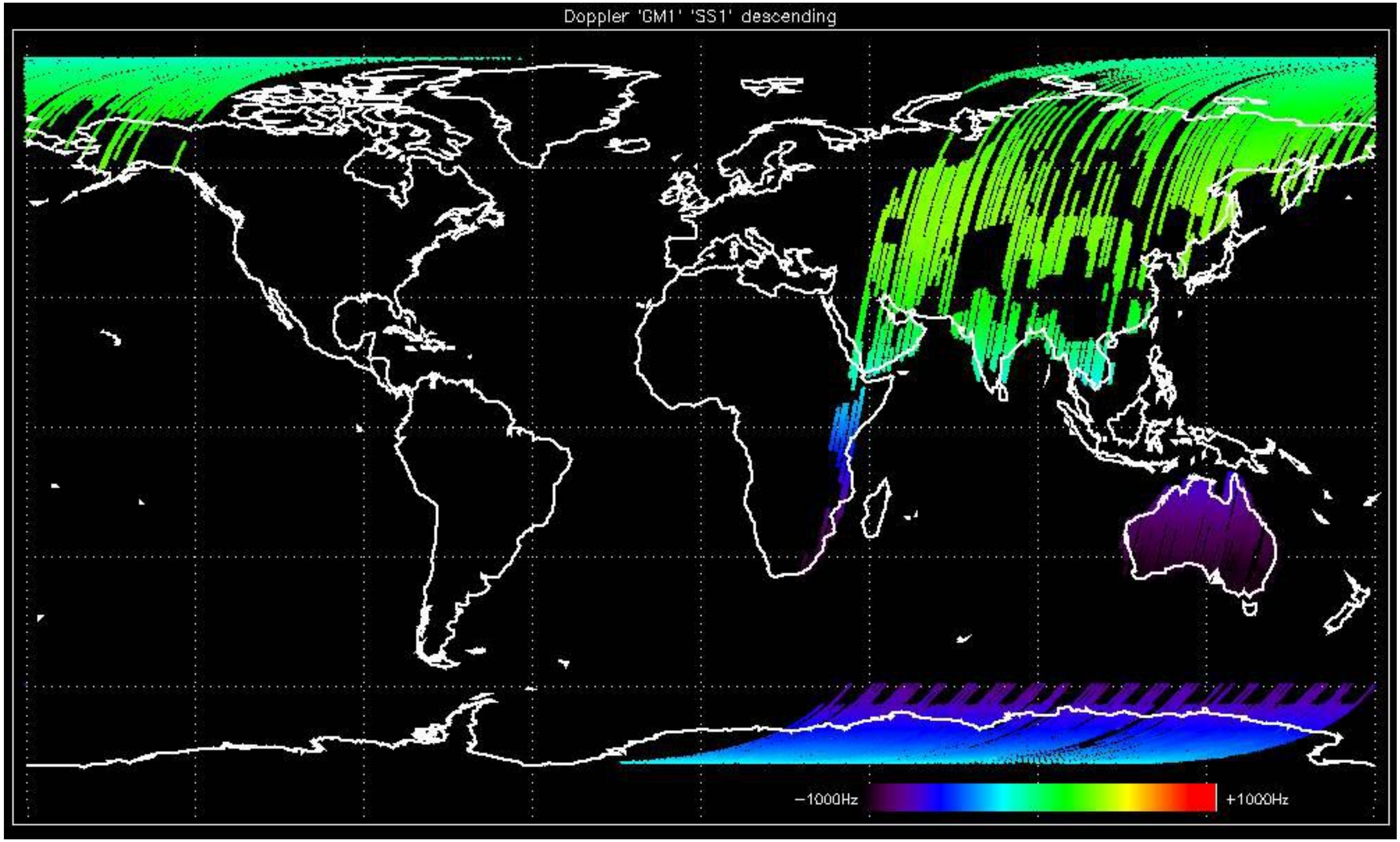

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

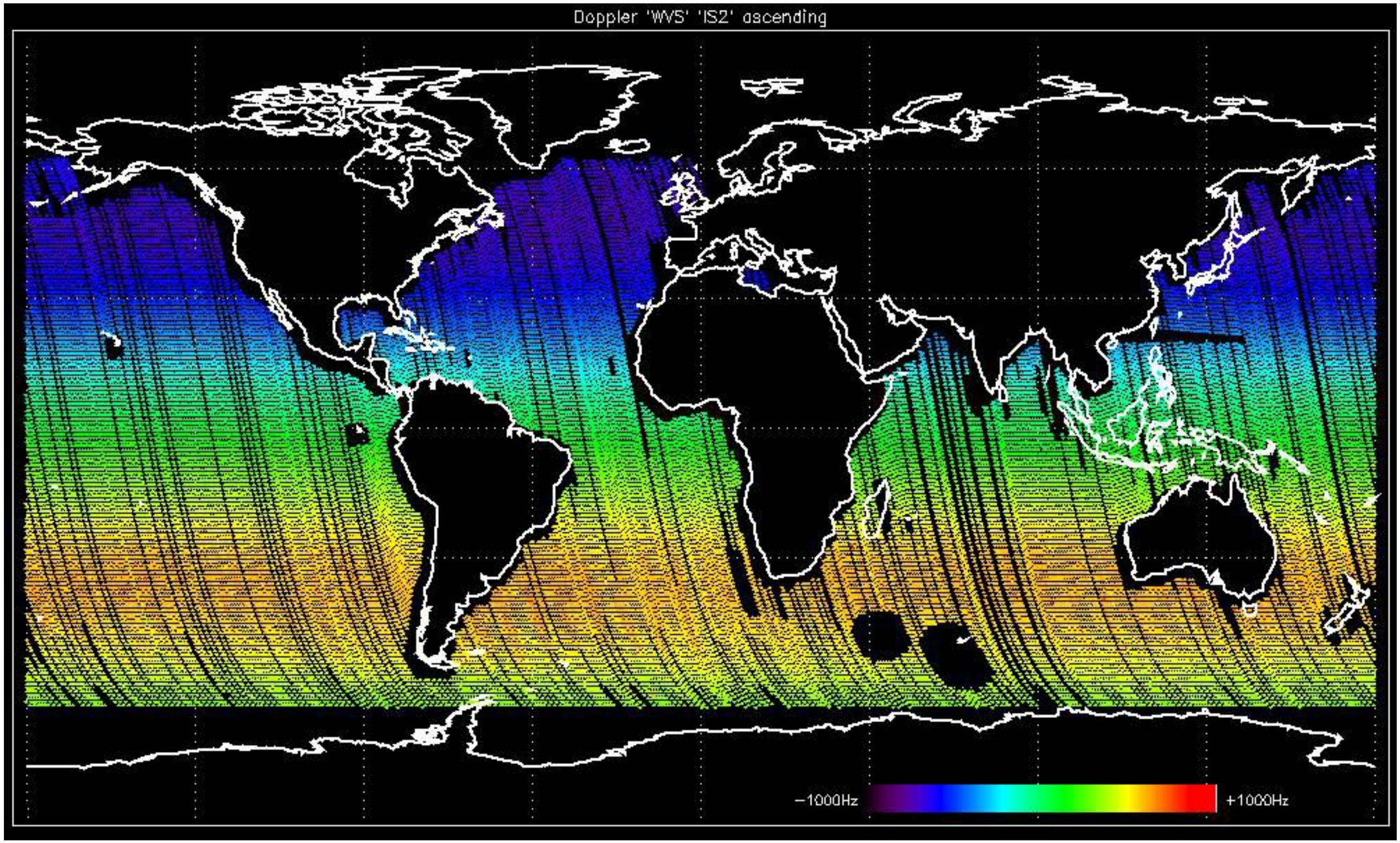

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

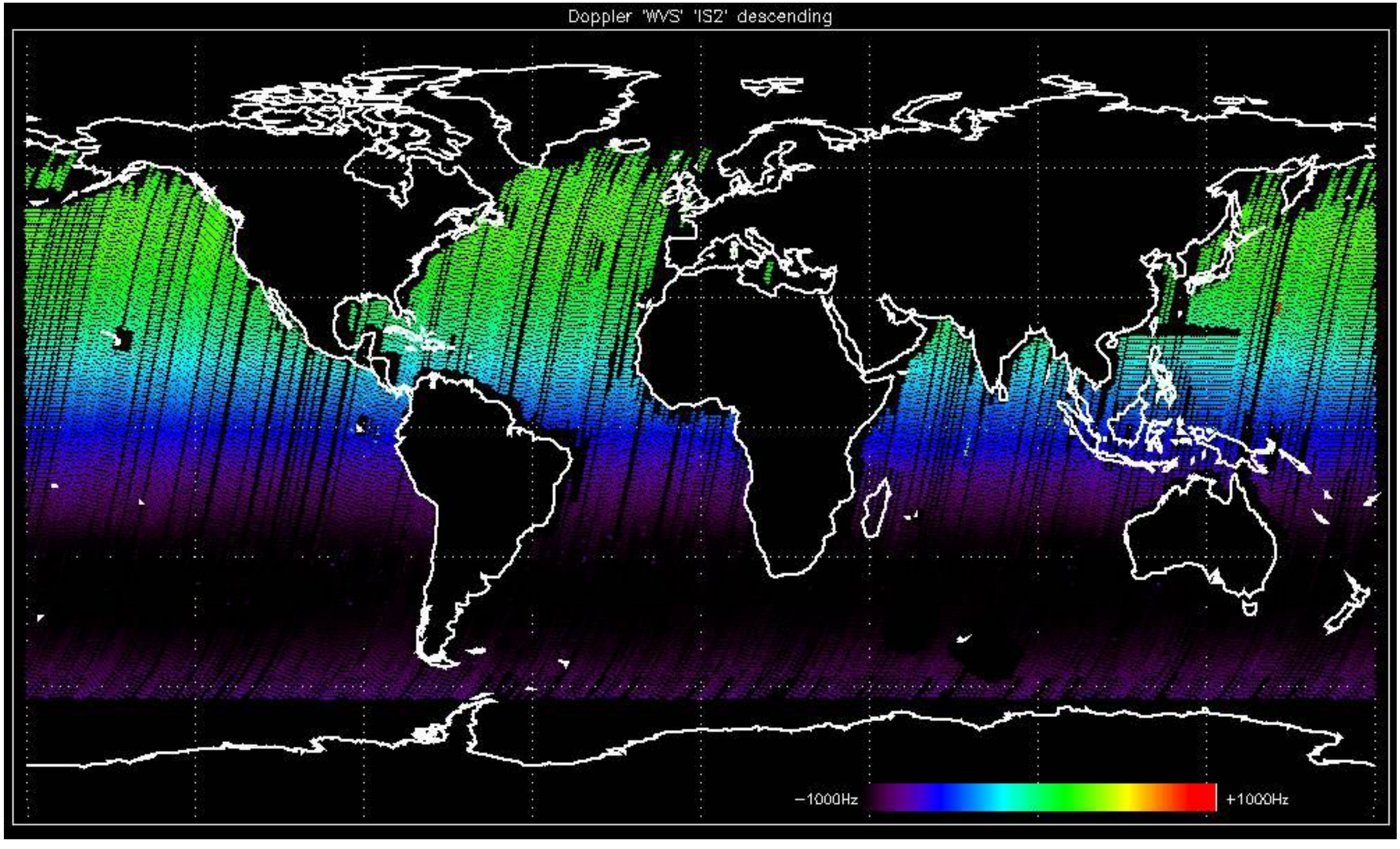
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

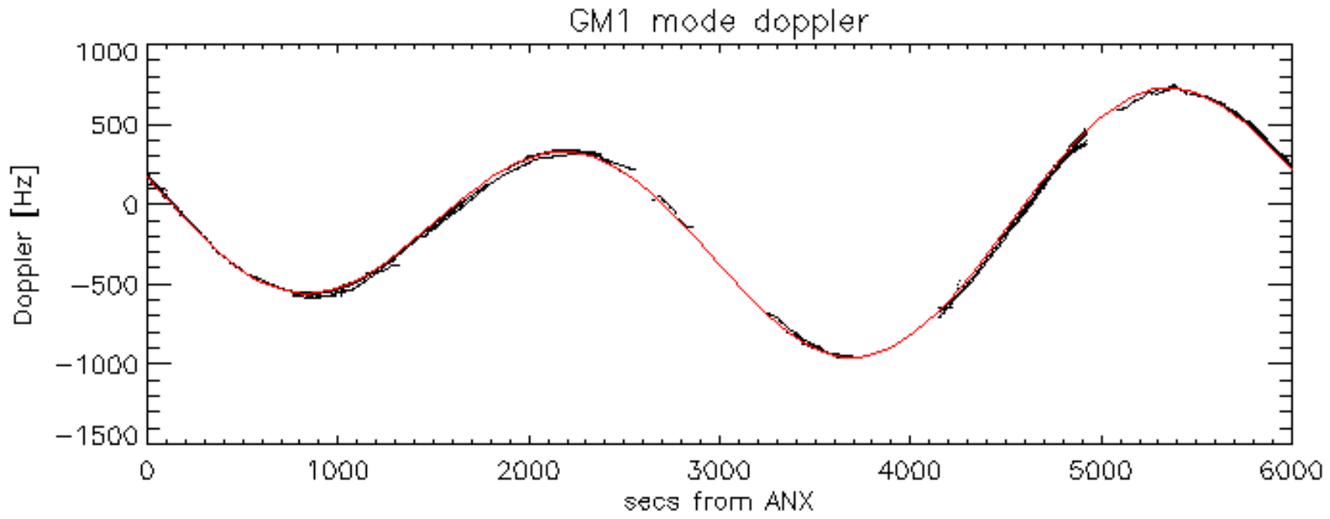
Preliminary report.The data is not yet controled

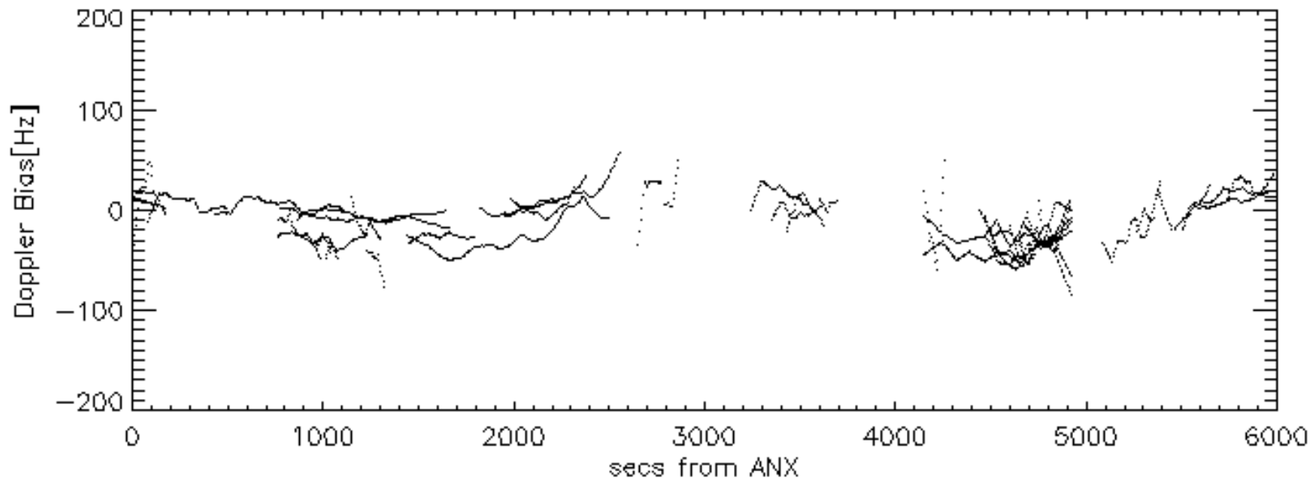

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

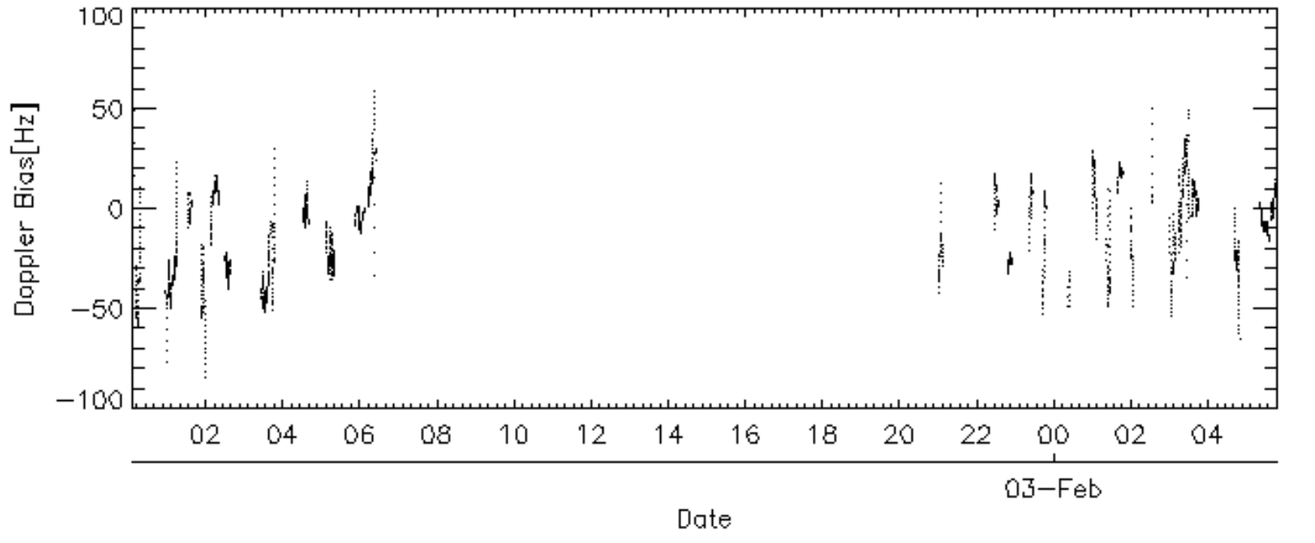

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

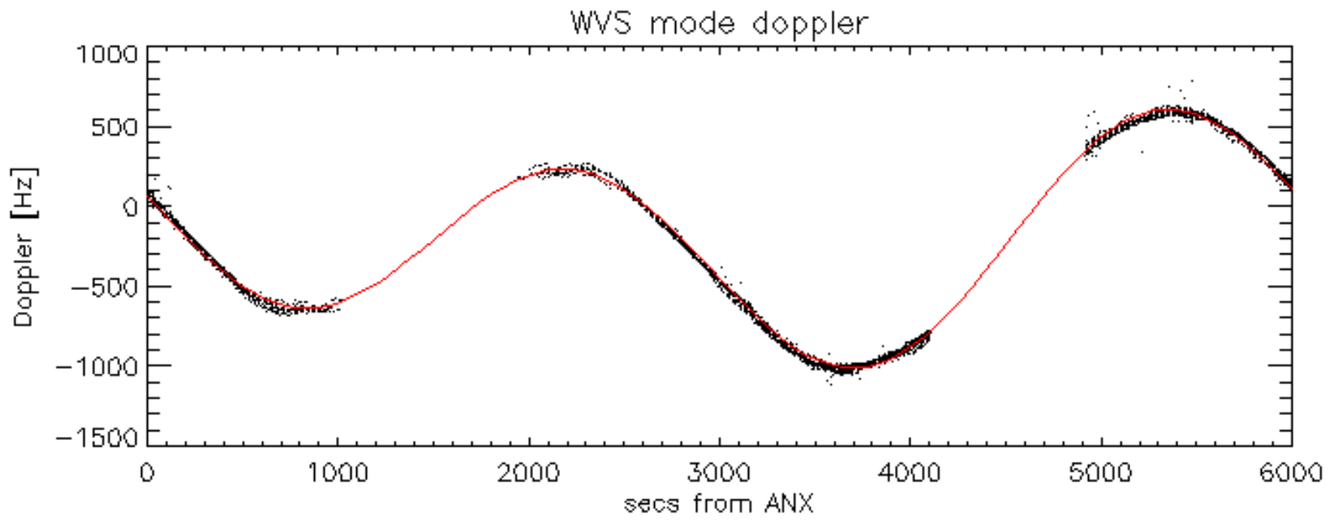

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

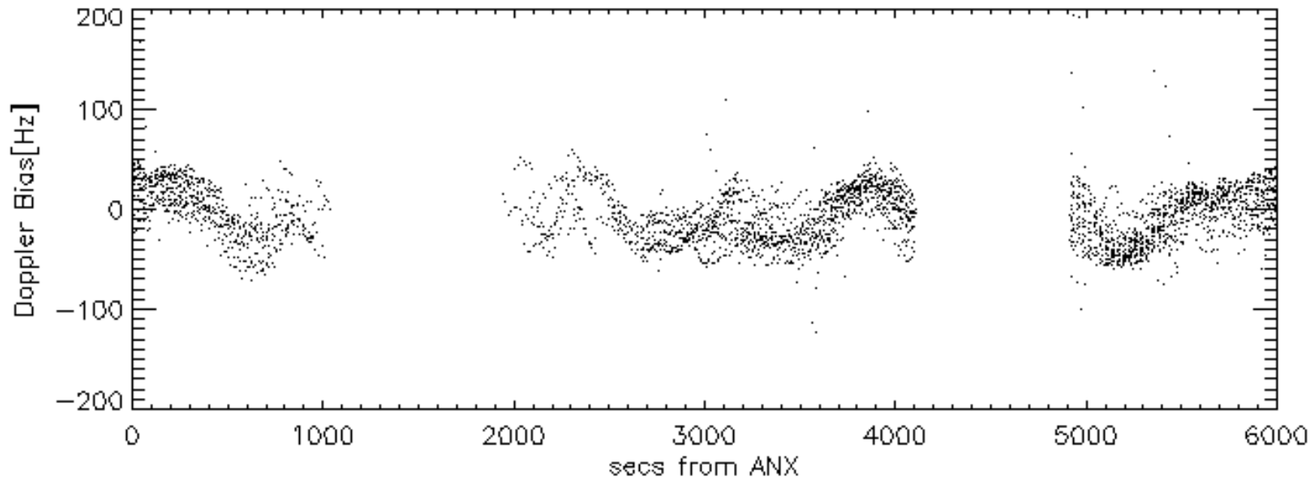

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

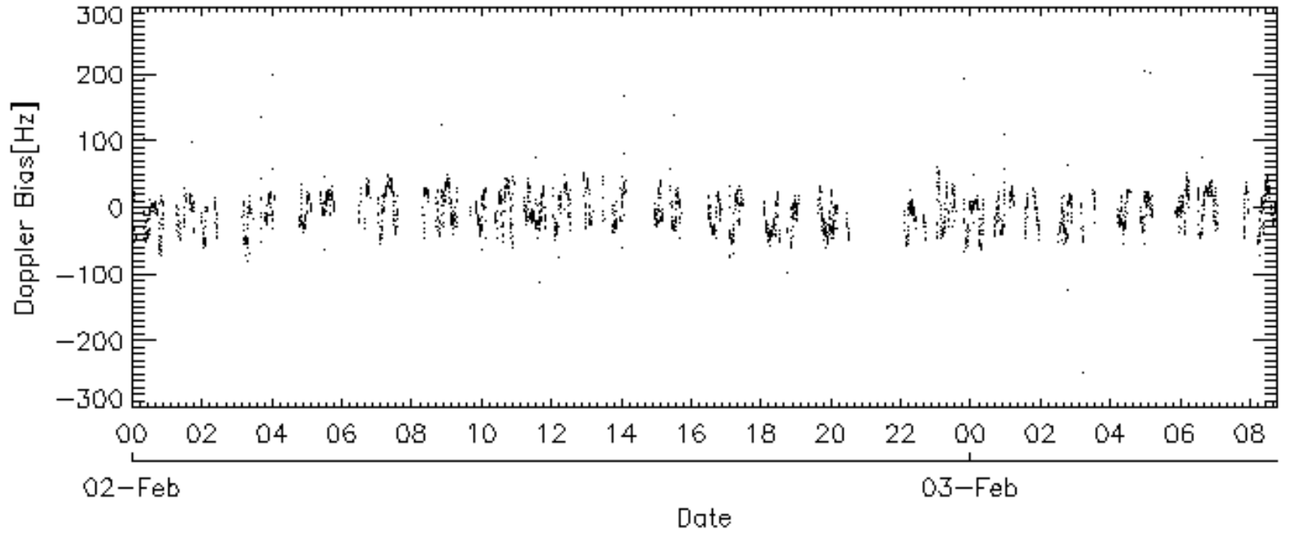

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

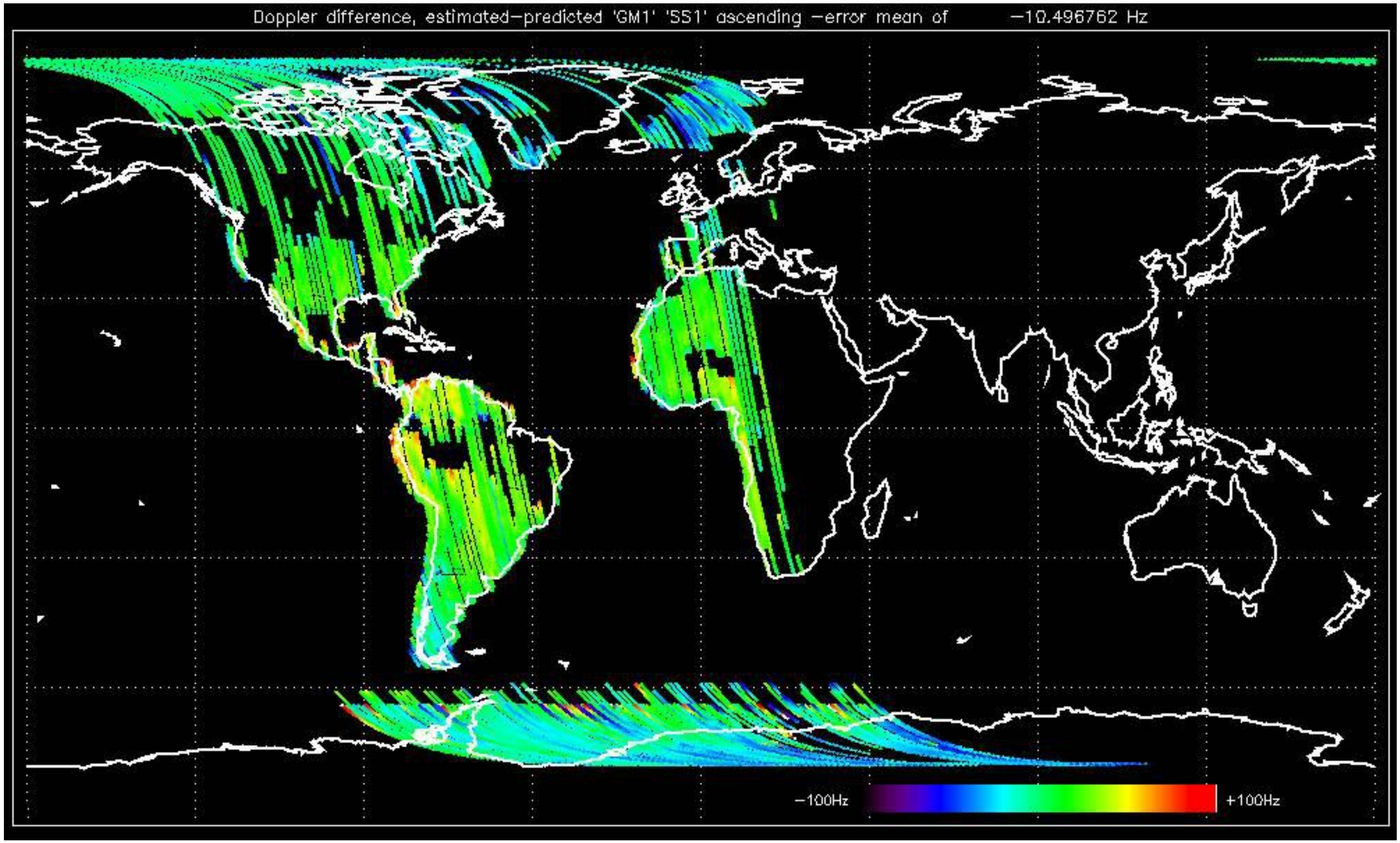

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

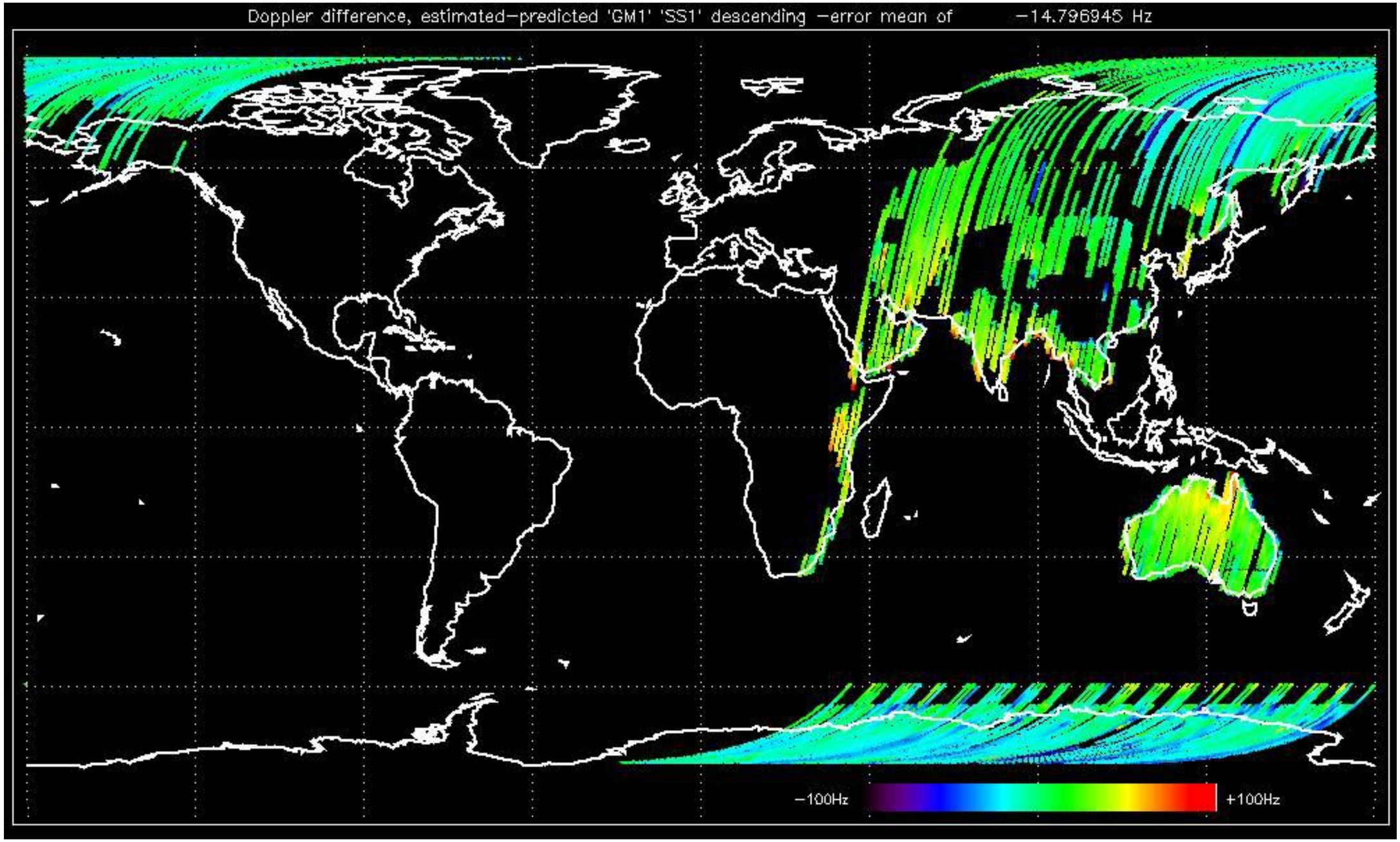

Doppler Bias[Hz]
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
00
02
04
03−Feb
Date

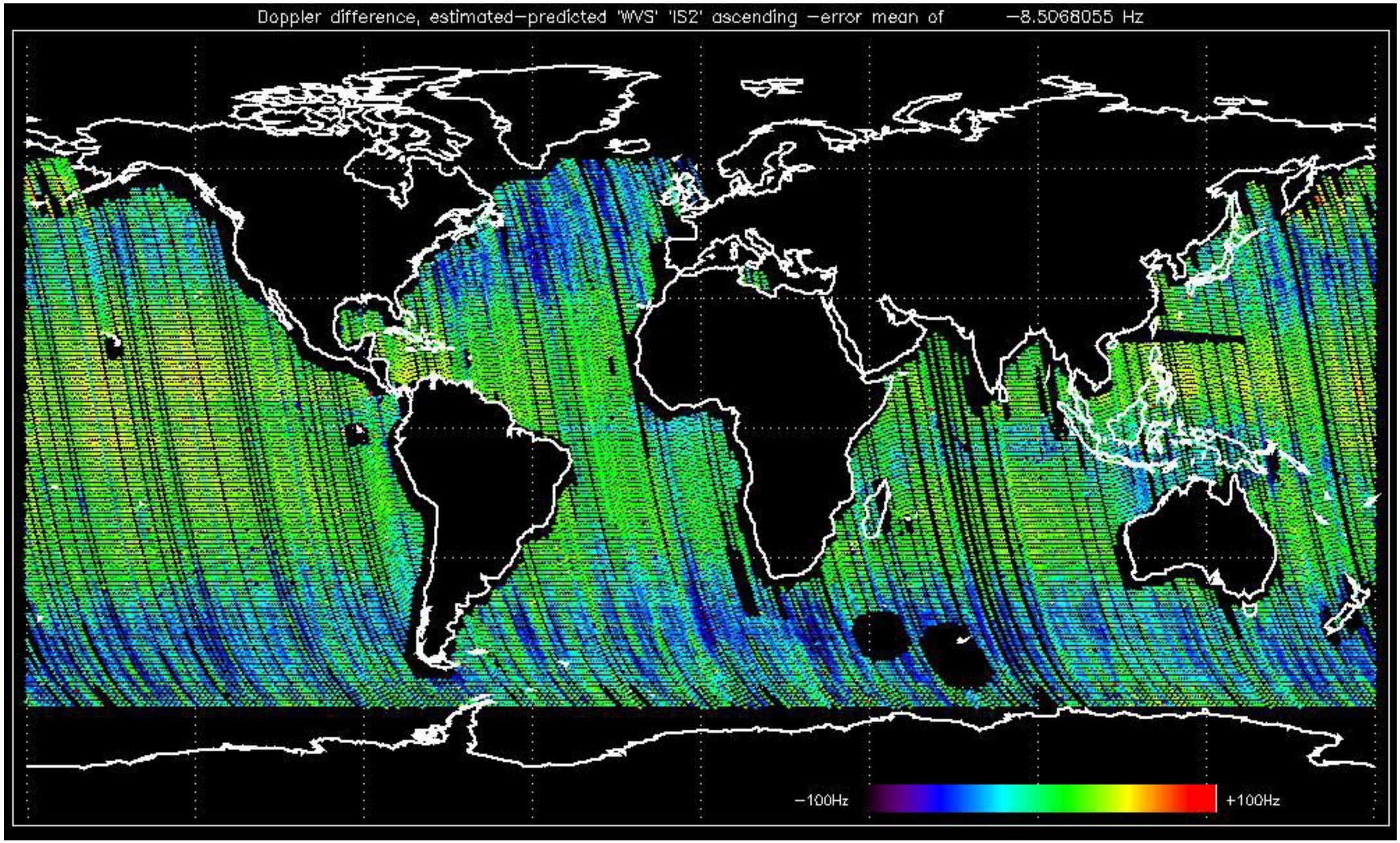

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

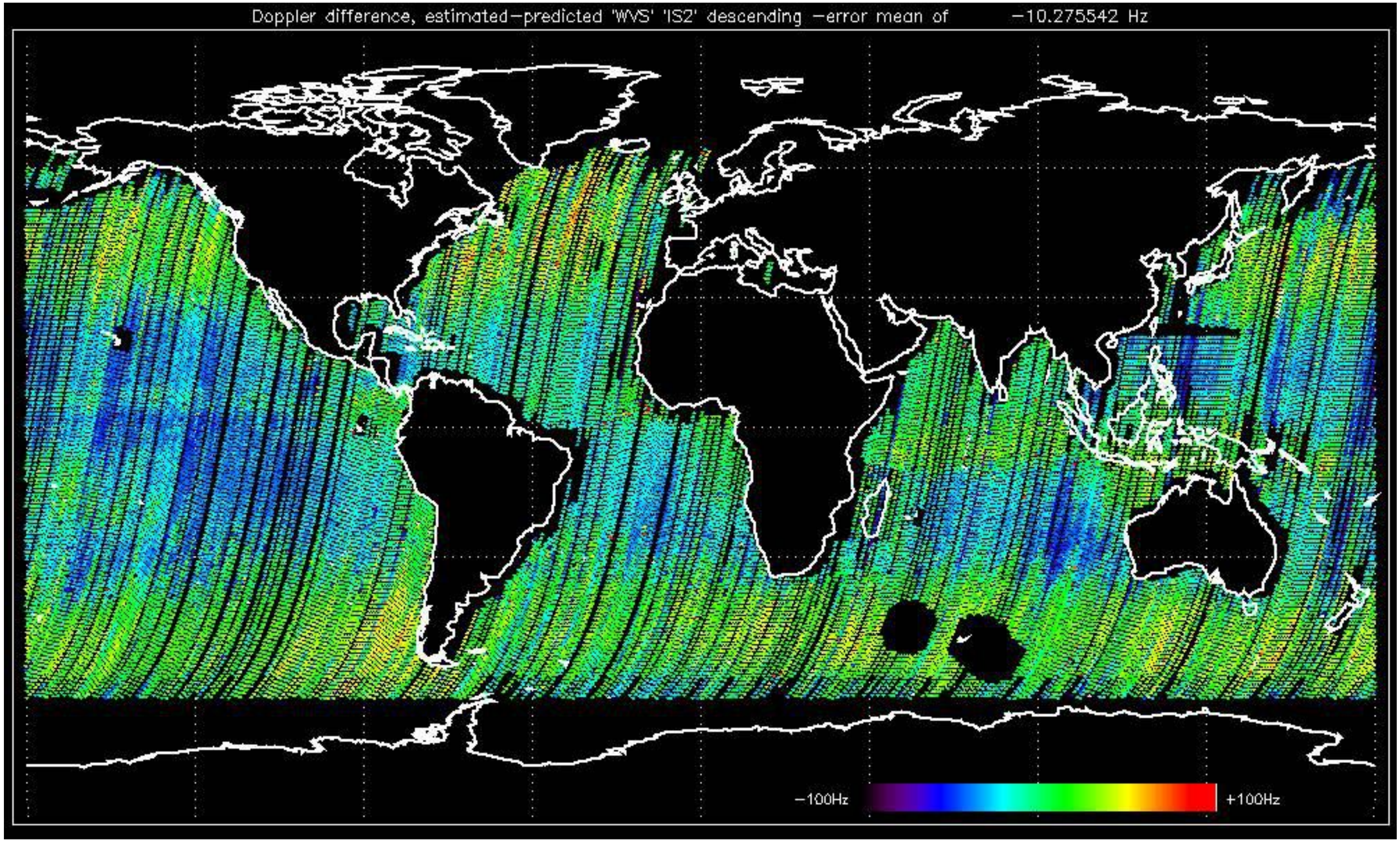

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −10.496762 Hz
−100Hz
+100Hz

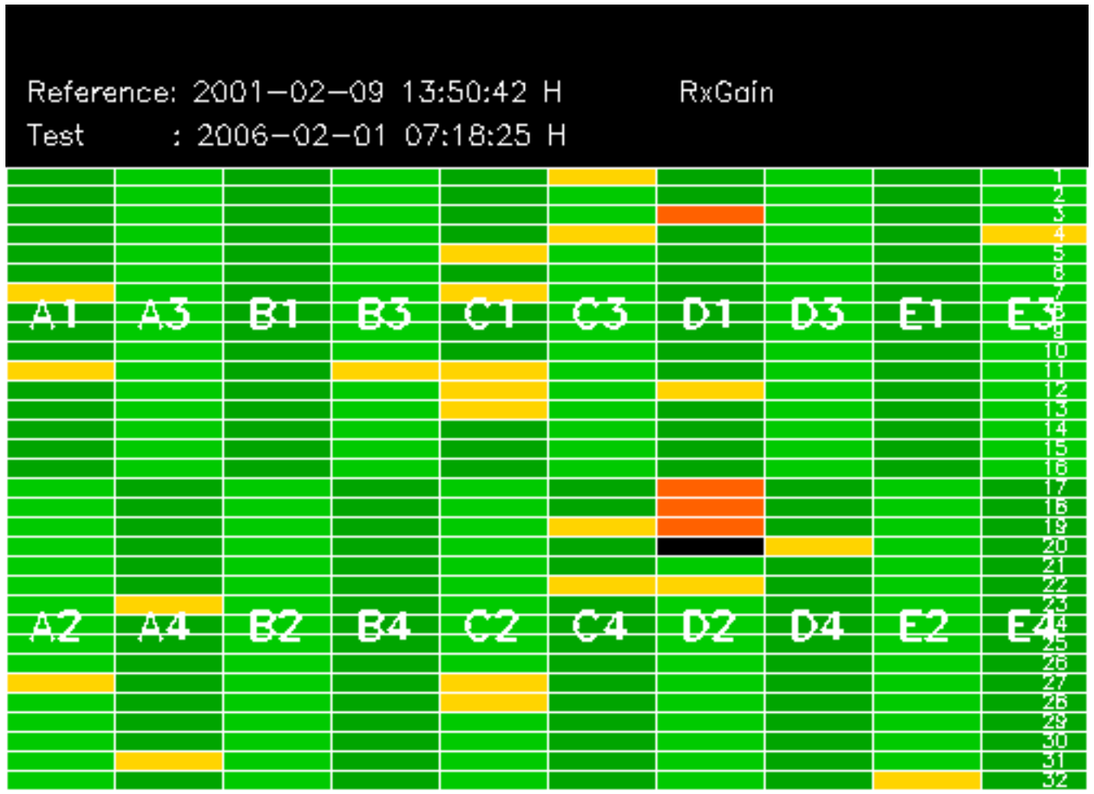

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −14.796945 Hz
−100Hz
+100Hz

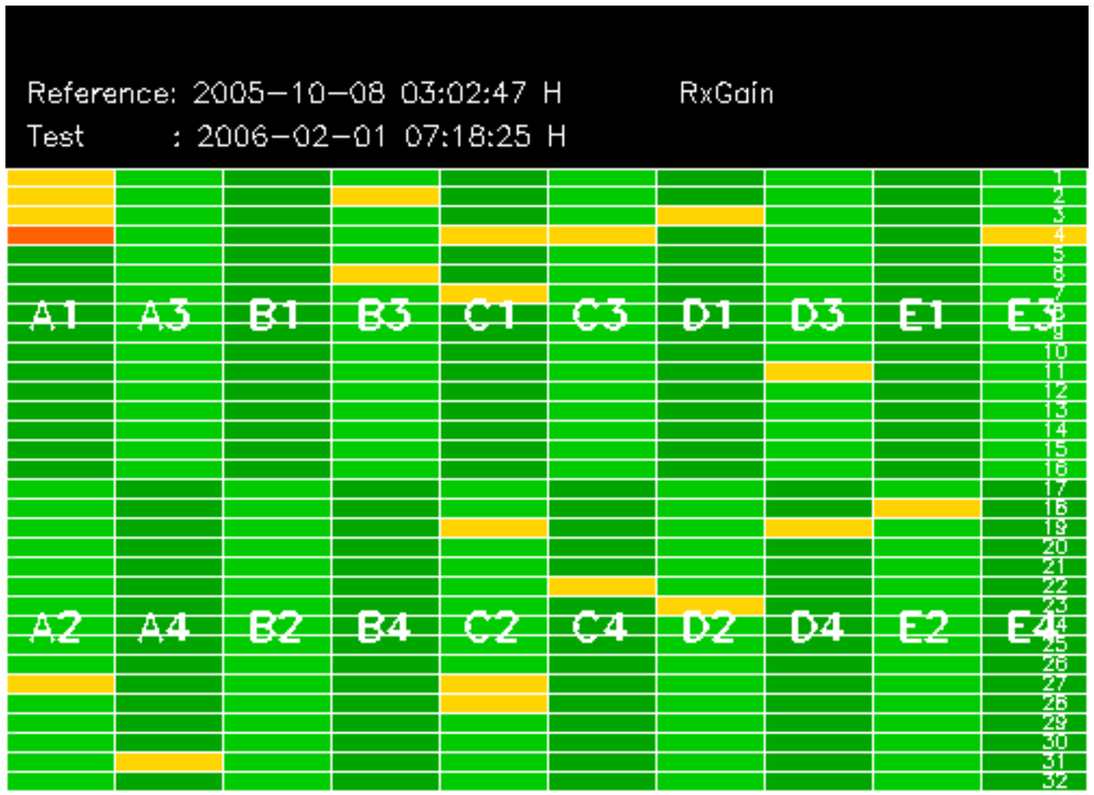

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −8.5068055 Hz
−100Hz
+100Hz

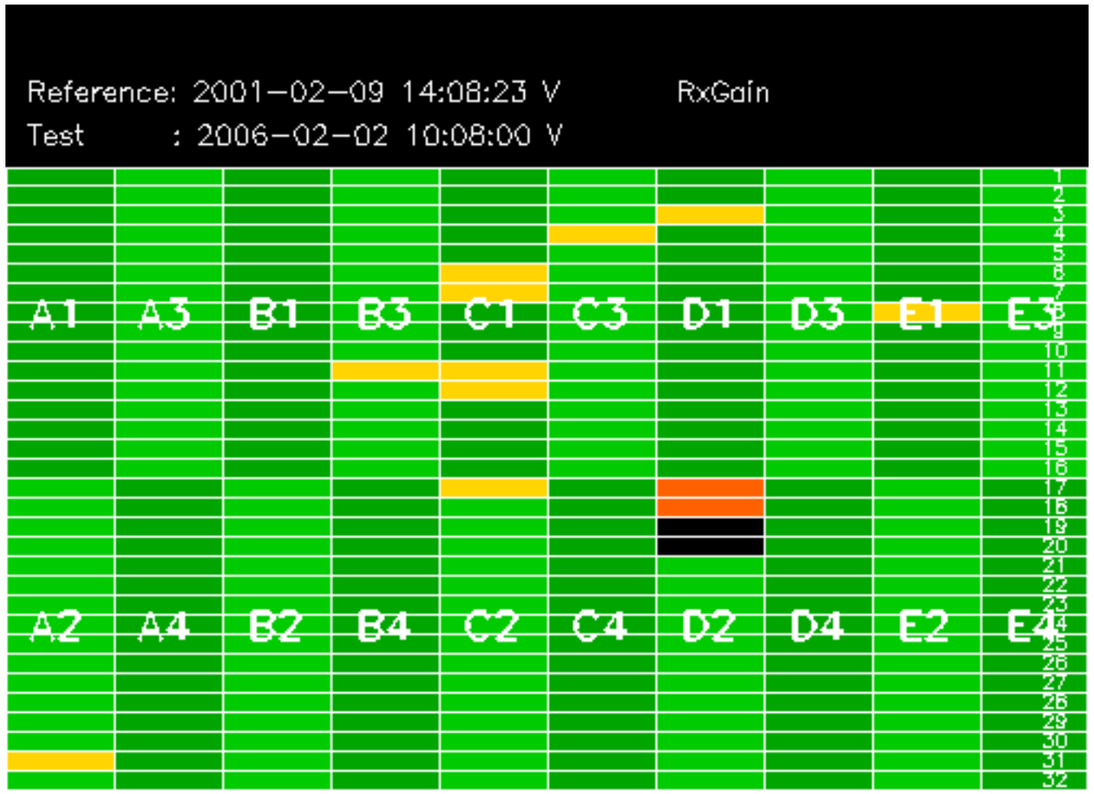

Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.275542 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-02-01 07:18:25 H
RxGain
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
RxGain
Test : 2006-02-01 07:18:25 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
Test : 2006-02-02 10:08:00 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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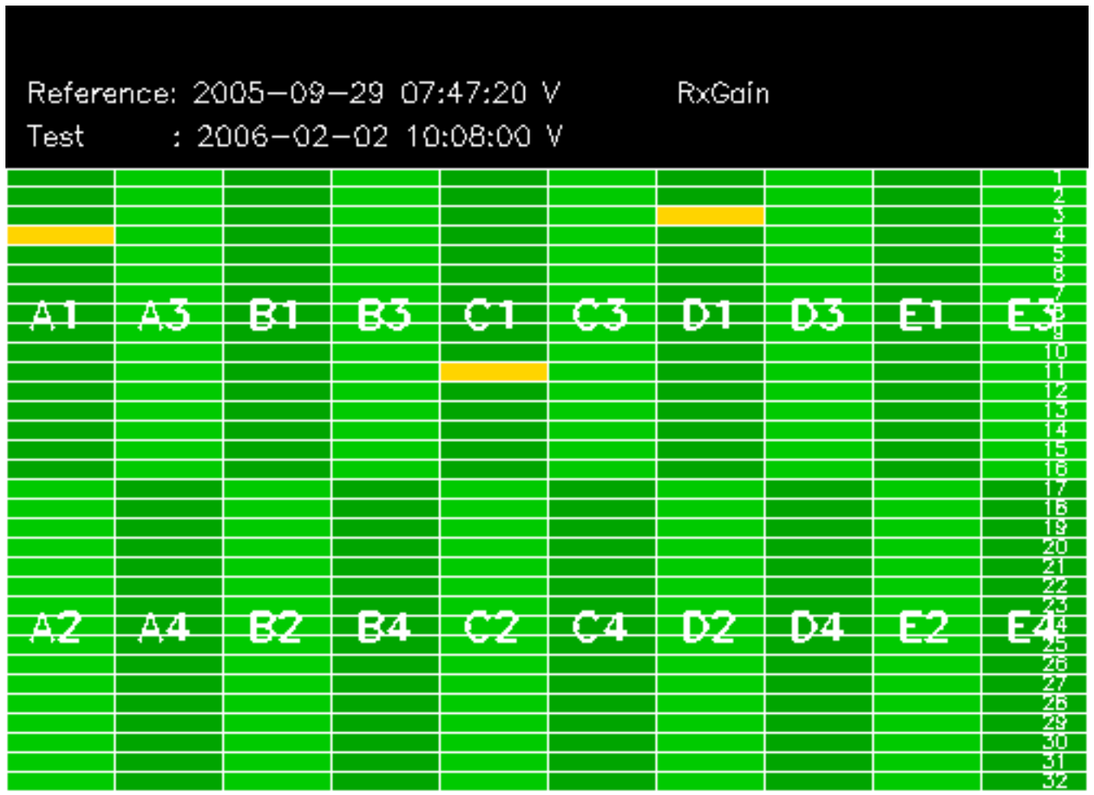
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-02 10:08:00 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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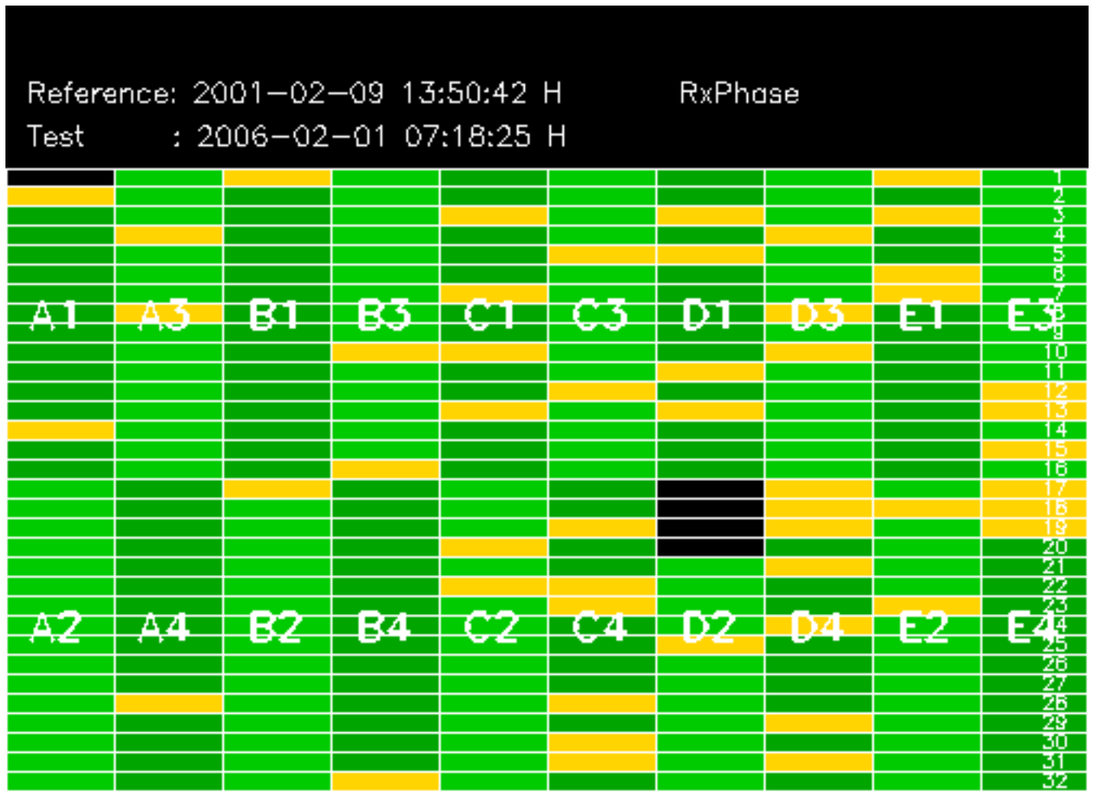
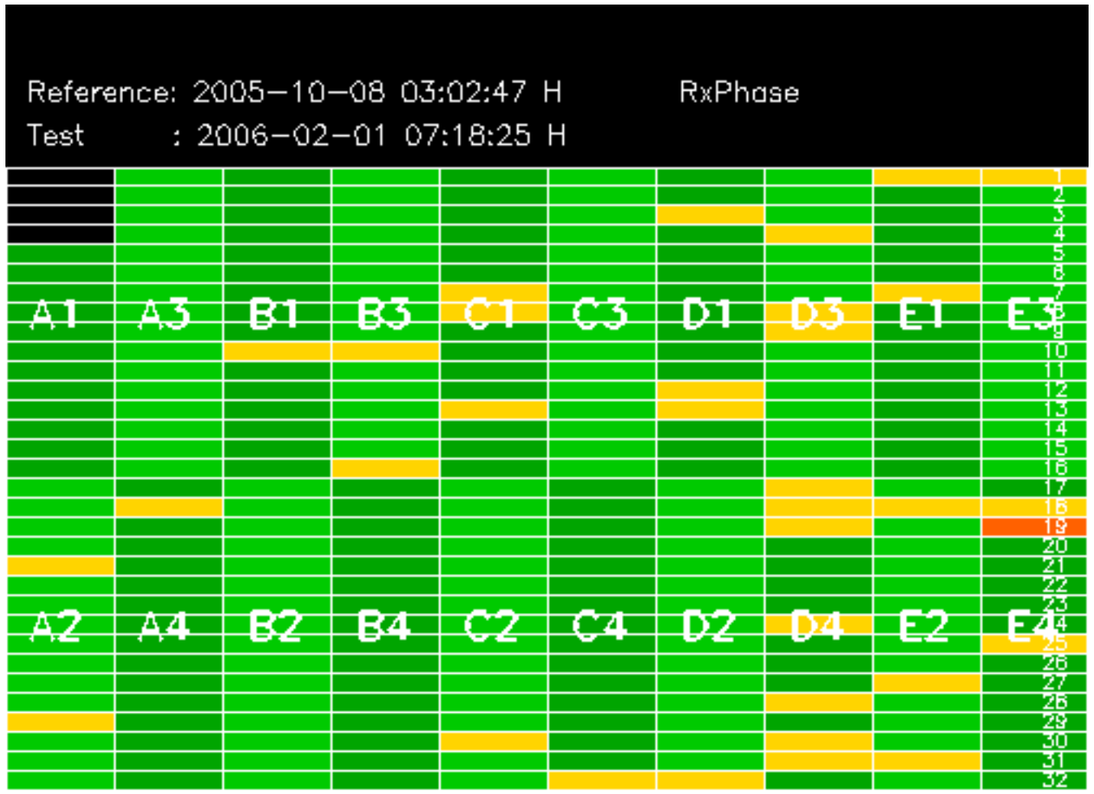

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-02-01 07:18:25 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-02-01 07:18:25 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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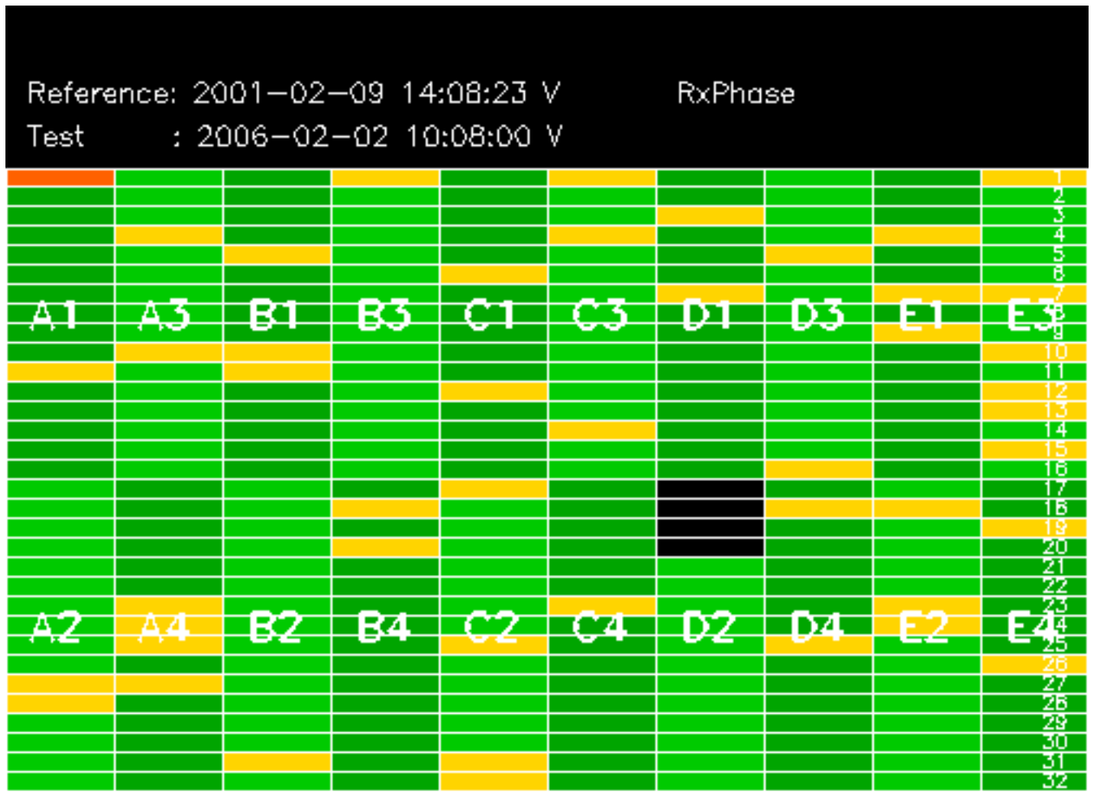
Reference: 2001-02-09 14:08:23 V
RxPhase
Test : 2006-02-02 10:08:00 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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3
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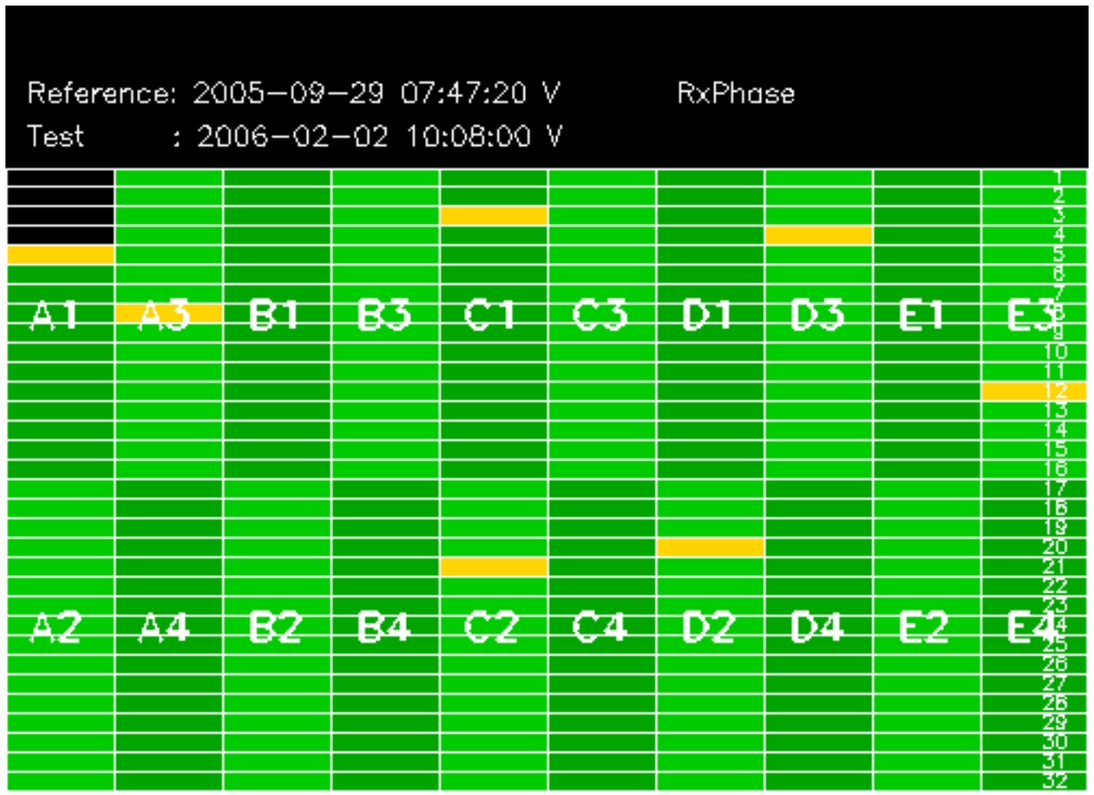
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-02 10:08:00 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
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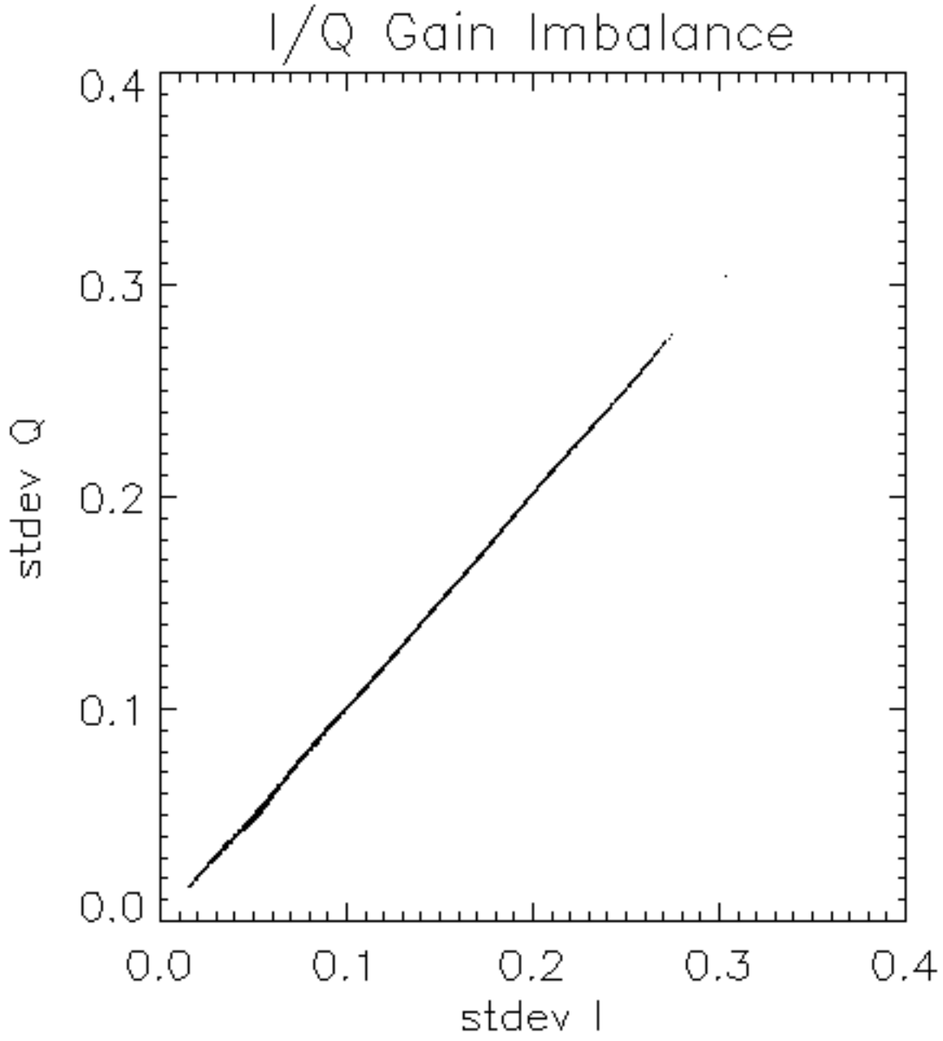
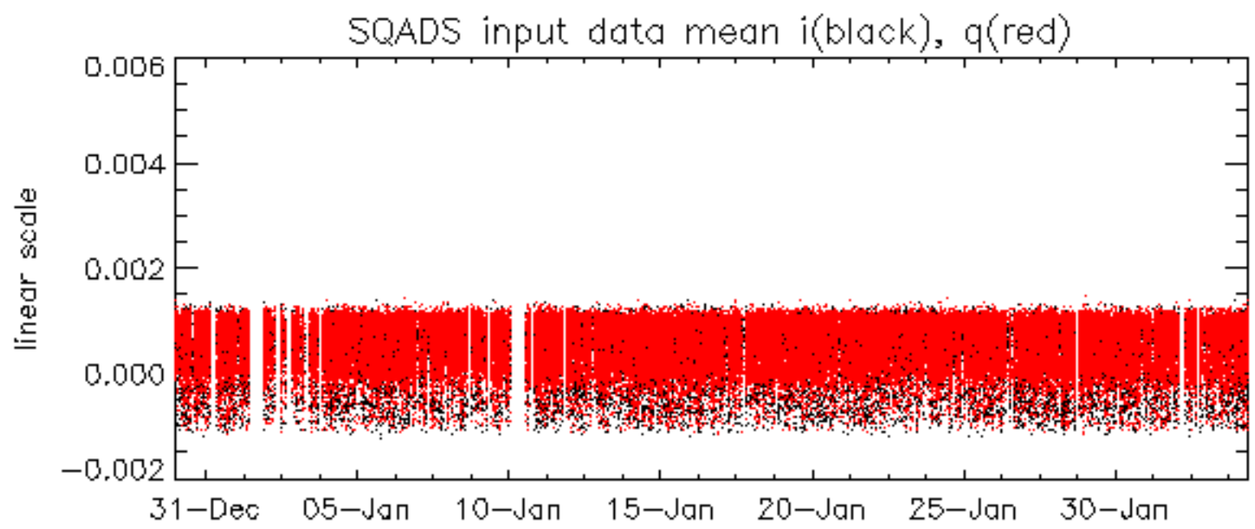
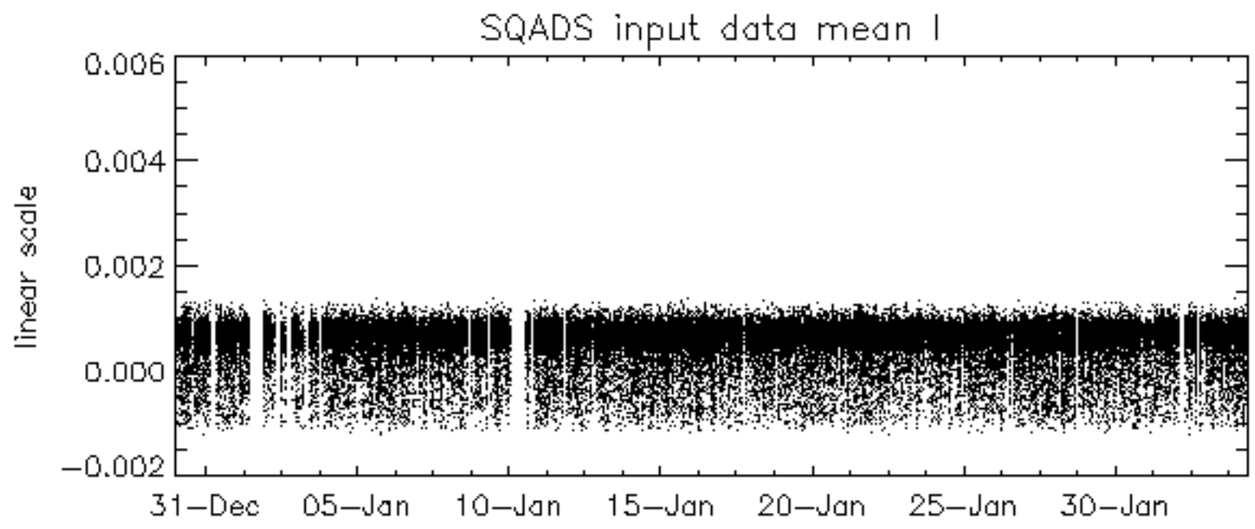
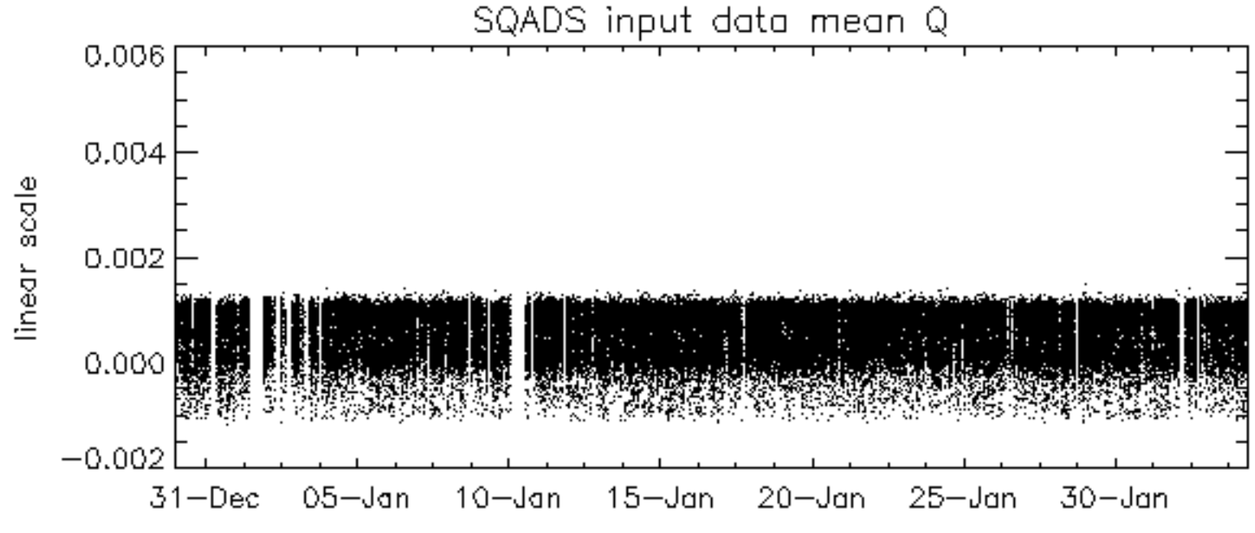
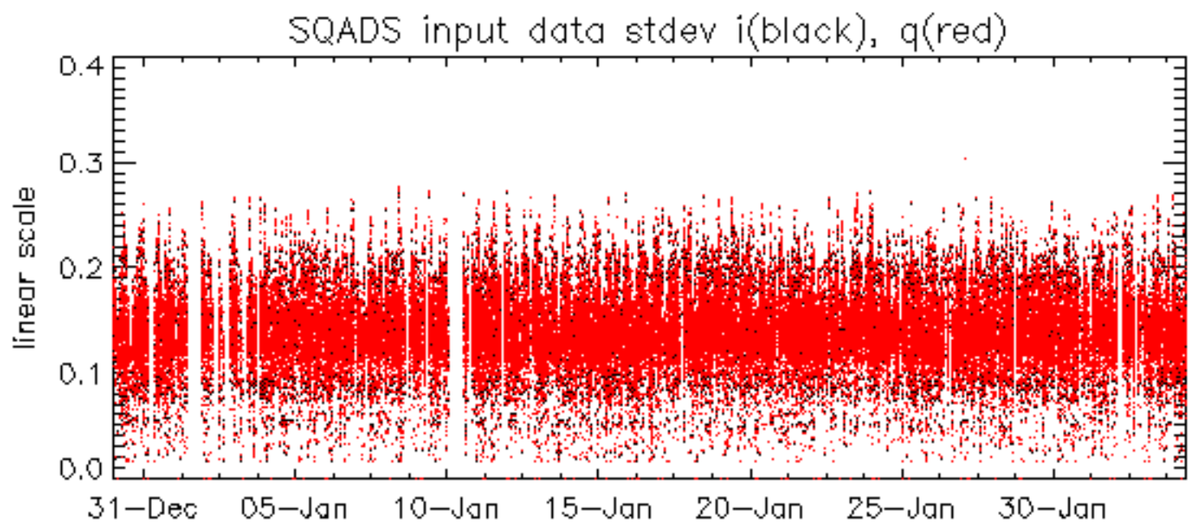
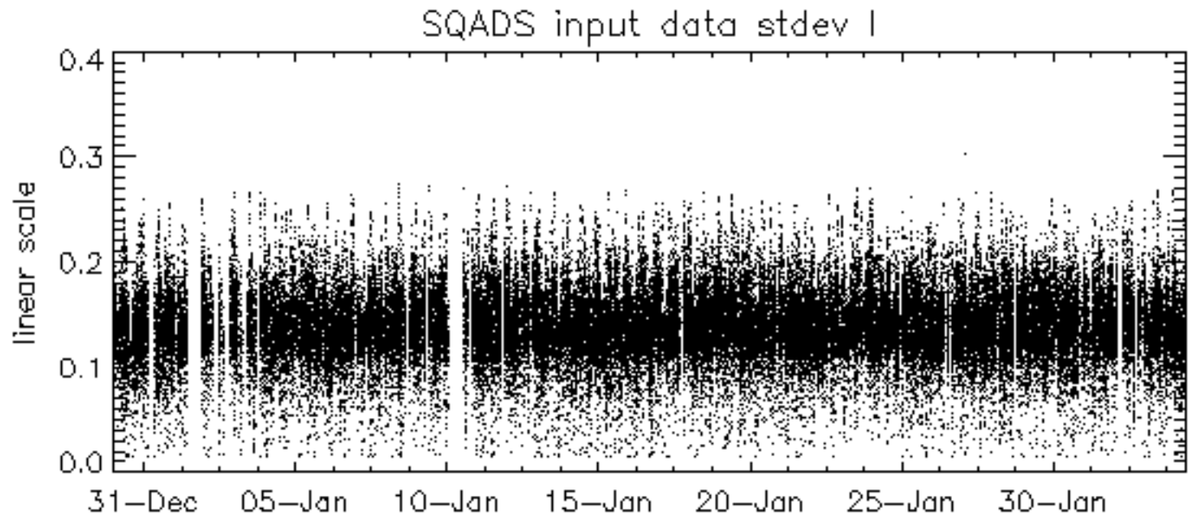

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

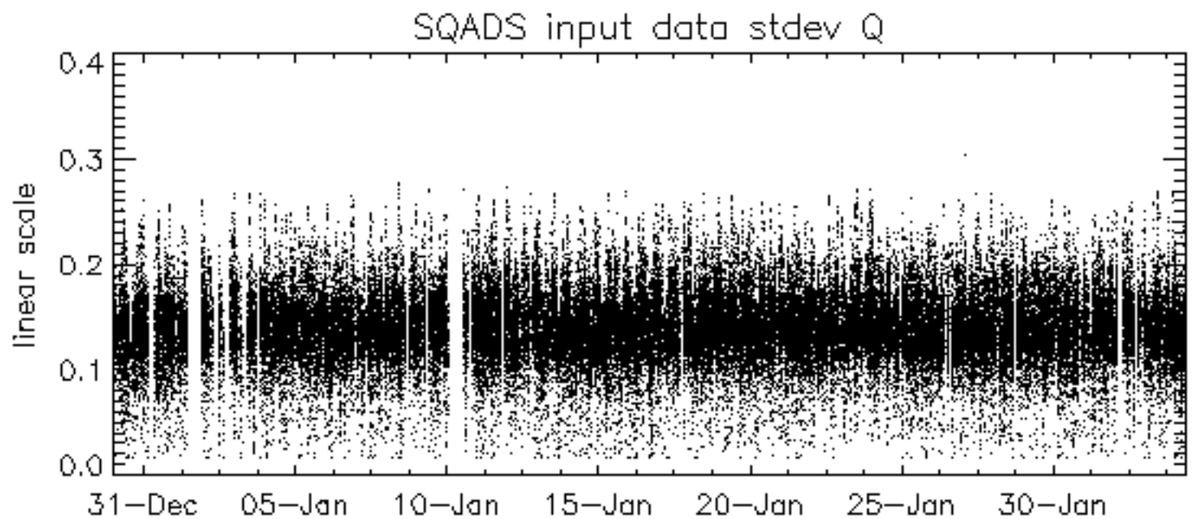

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Dec
05−Jan
10−Jan
15−Jan
20−Jan
25−Jan
30−Jan

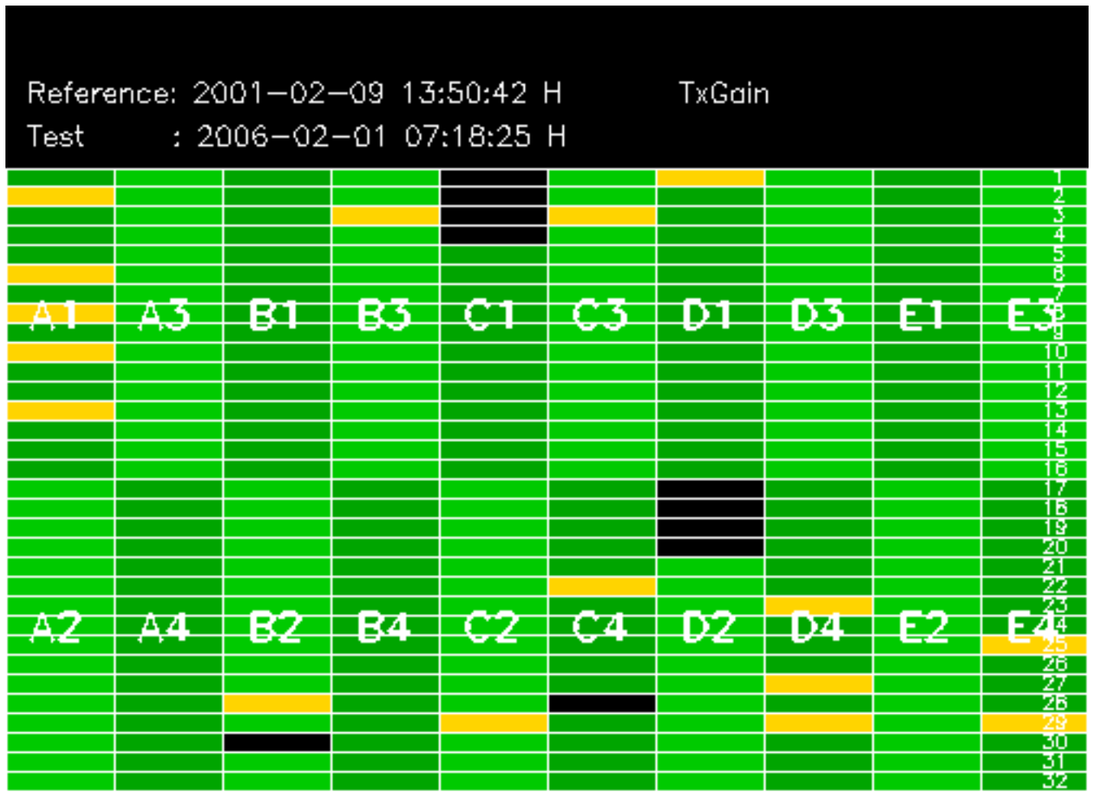

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Dec
05−Jan
10−Jan
15−Jan
20−Jan
25−Jan
30−Jan


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


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


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
31−Dec
05−Jan
10−Jan
15−Jan
20−Jan
25−Jan
30−Jan


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
31−Dec
05−Jan
10−Jan
15−Jan
20−Jan
25−Jan
30−Jan


Reference: 2001-02-09 13:50:42 H
Test : 2006-02-01 07:18:25 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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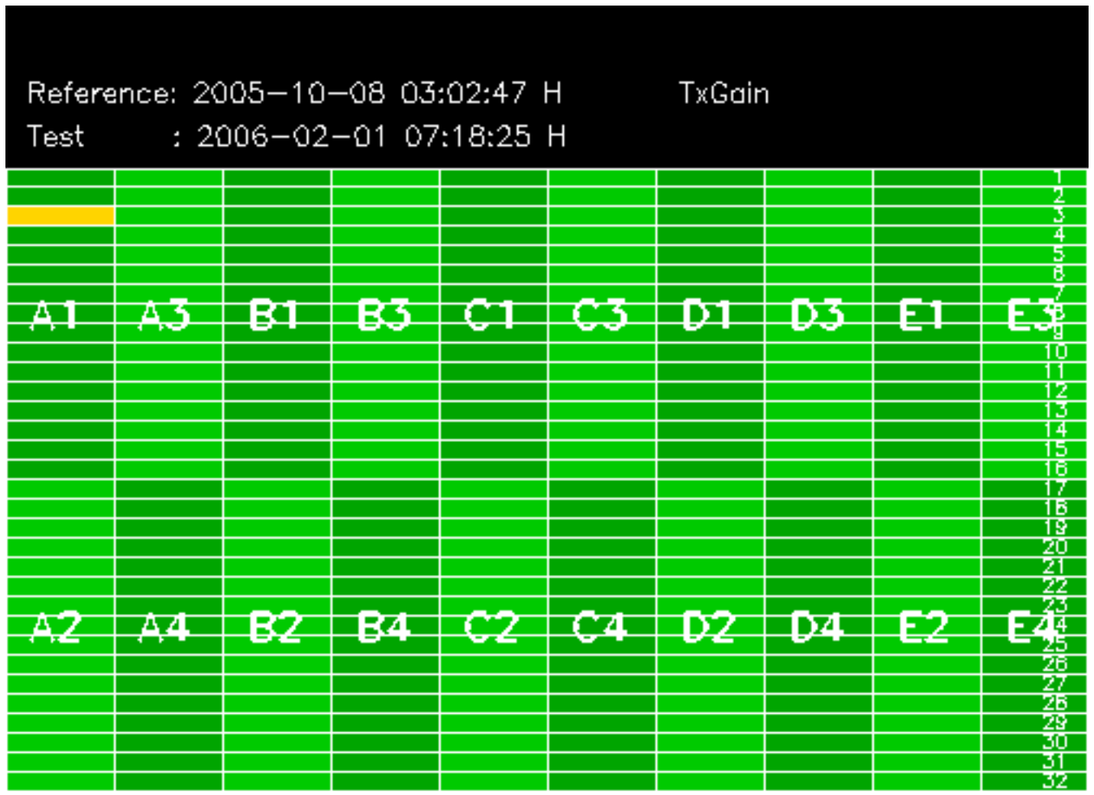
Reference: 2005-10-08 03:02:47 H
Test : 2006-02-01 07:18:25 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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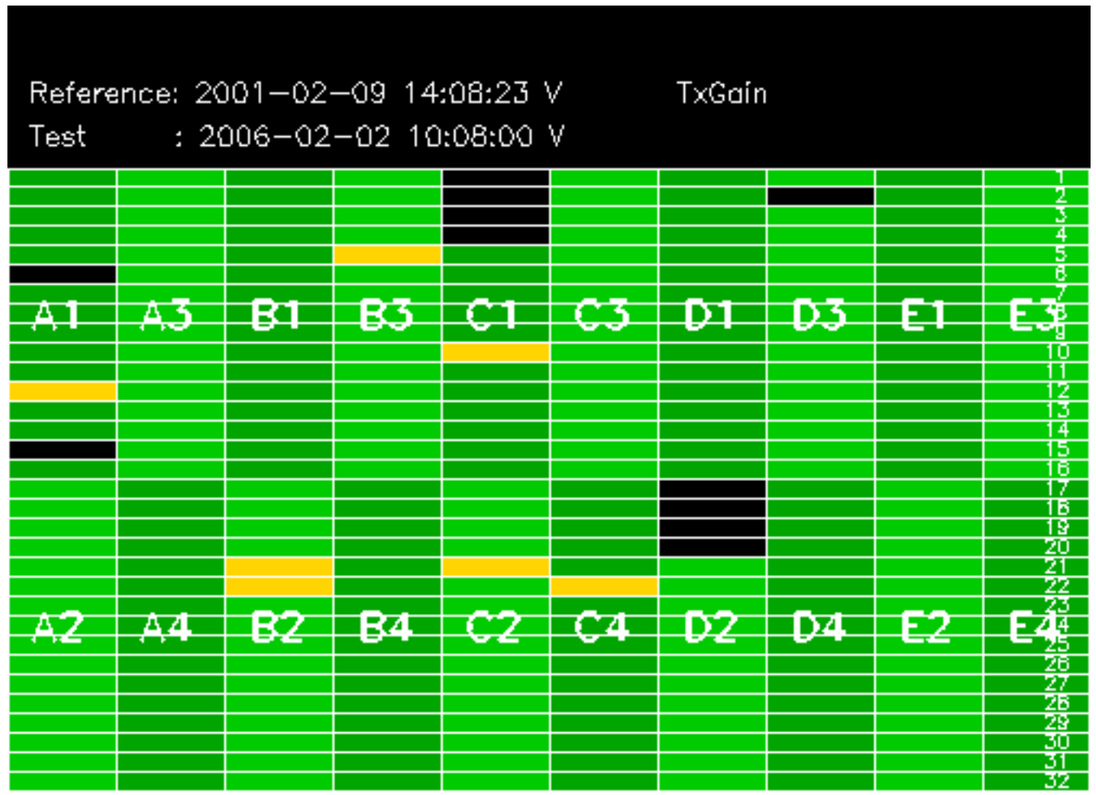
32


Reference: 2001-02-09 14:08:23 V
Test : 2006-02-02 10:08:00 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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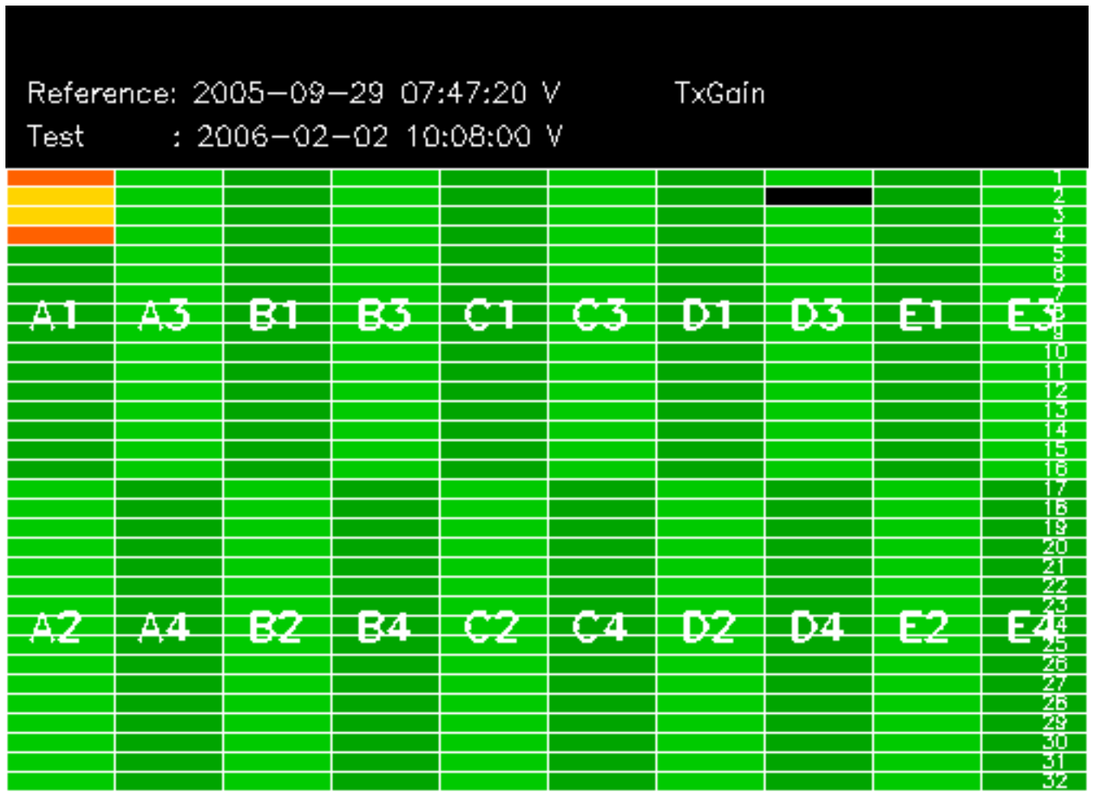
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-02 10:08:00 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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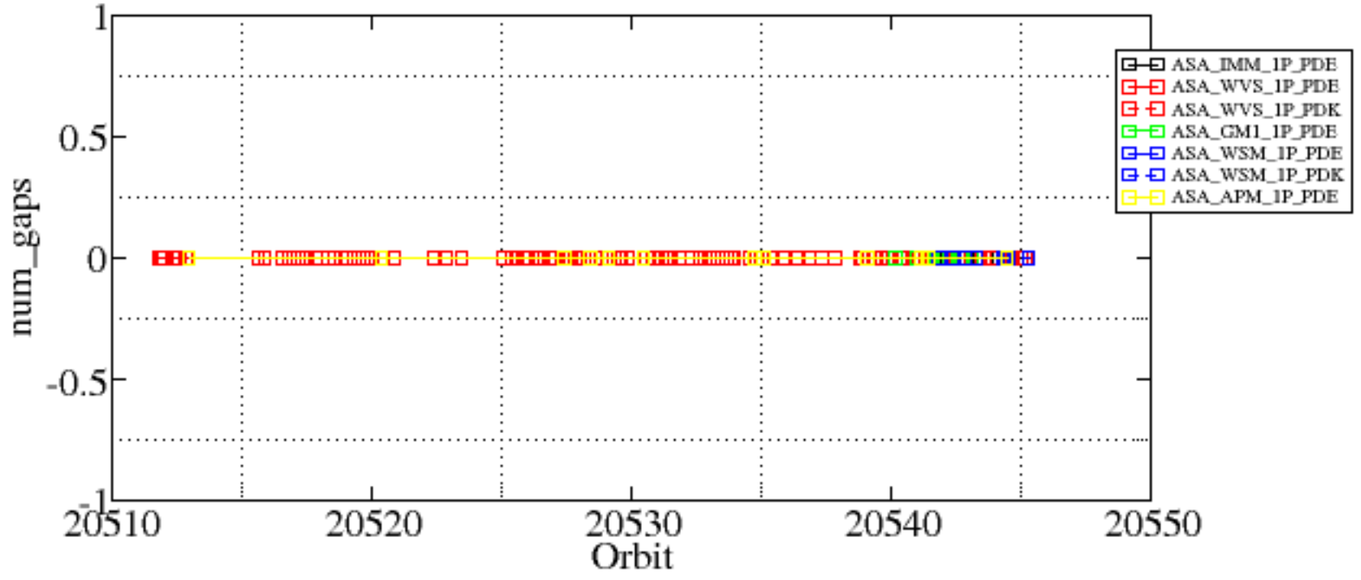
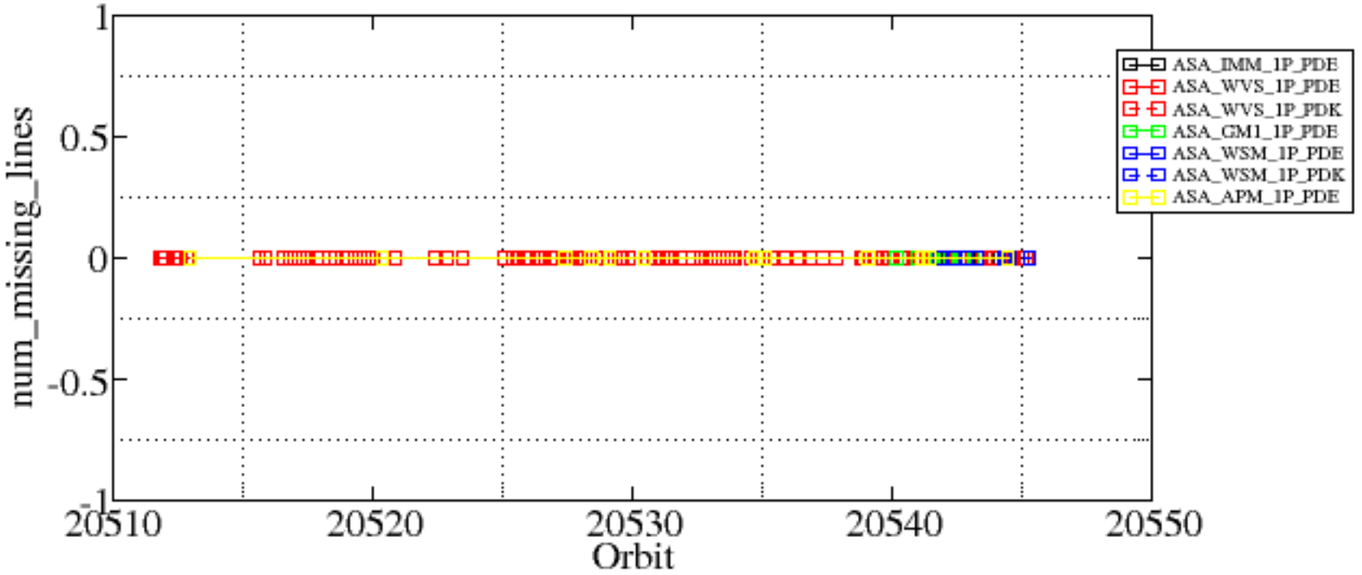
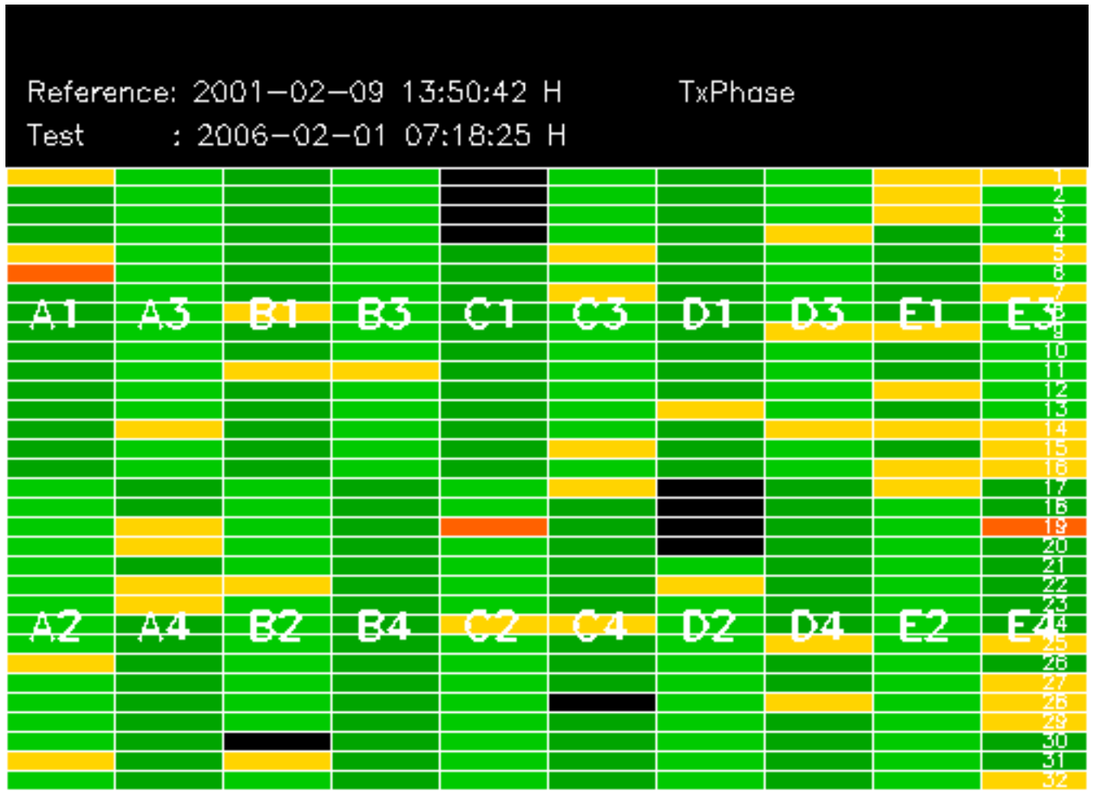
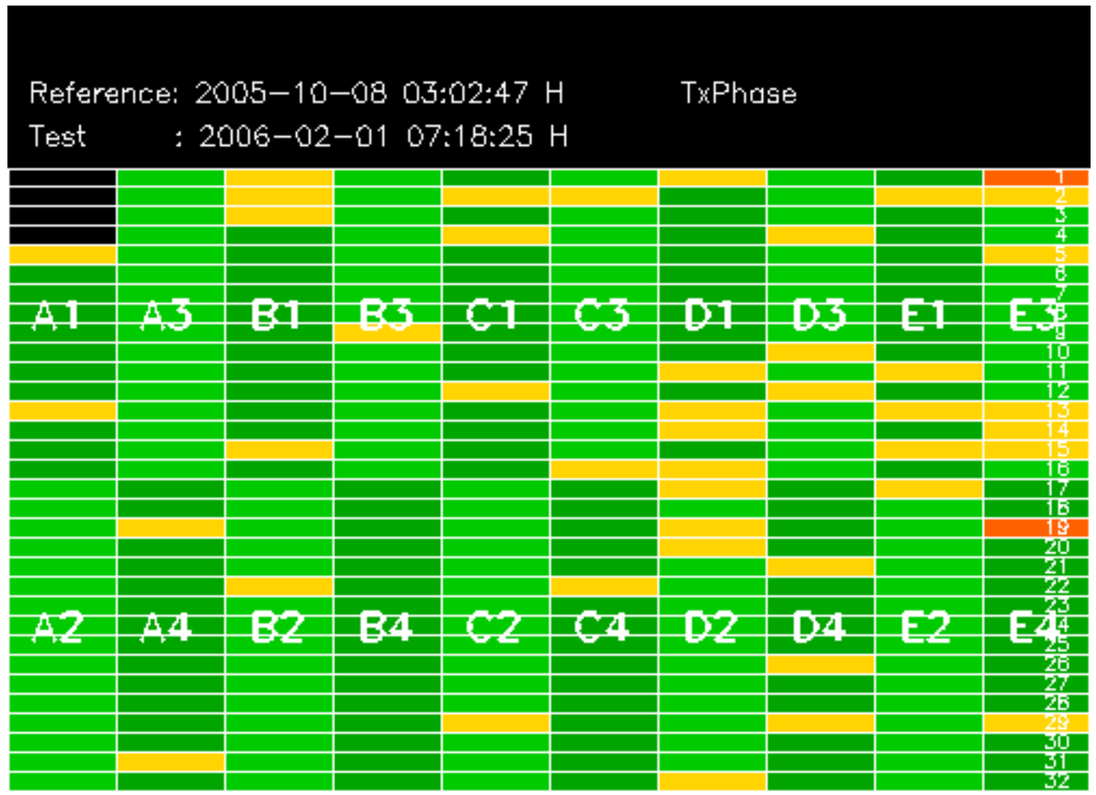
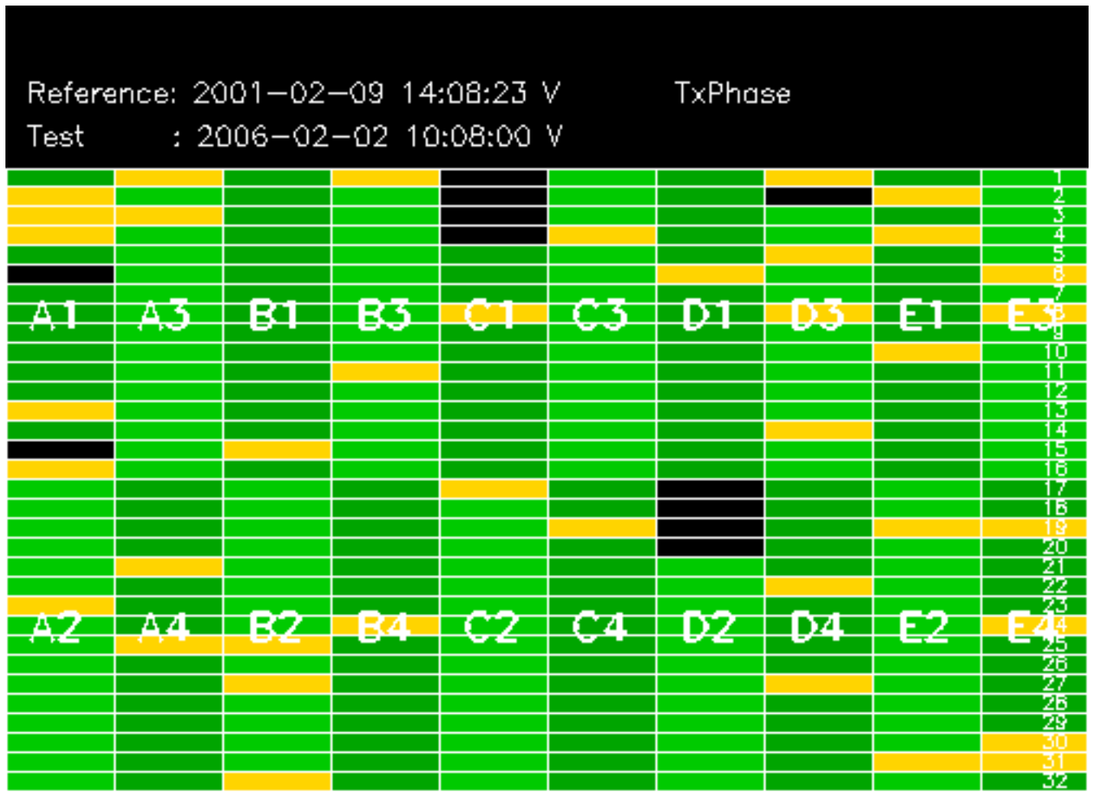
Summary of analysis for the last 3 days 2006020[123]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
</table>


num_gaps
1
0.5
0
-0.5
-1
20510
20520
20530
20540
20550
Orbit
ASA_IMM_1P_PDE
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
1
0.5
0
-0.5
-1
20510
20520
20530
20540
20550
Orbit
ASA_IMM_1P_PDE
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 : 2006-02-01 07:18:25 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 : 2006-02-01 07:18:25 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
Test : 2006-02-02 10:08:00 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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Reference: 2005-09-29 07:47:20 V
Test : 2006-02-02 10:08:00 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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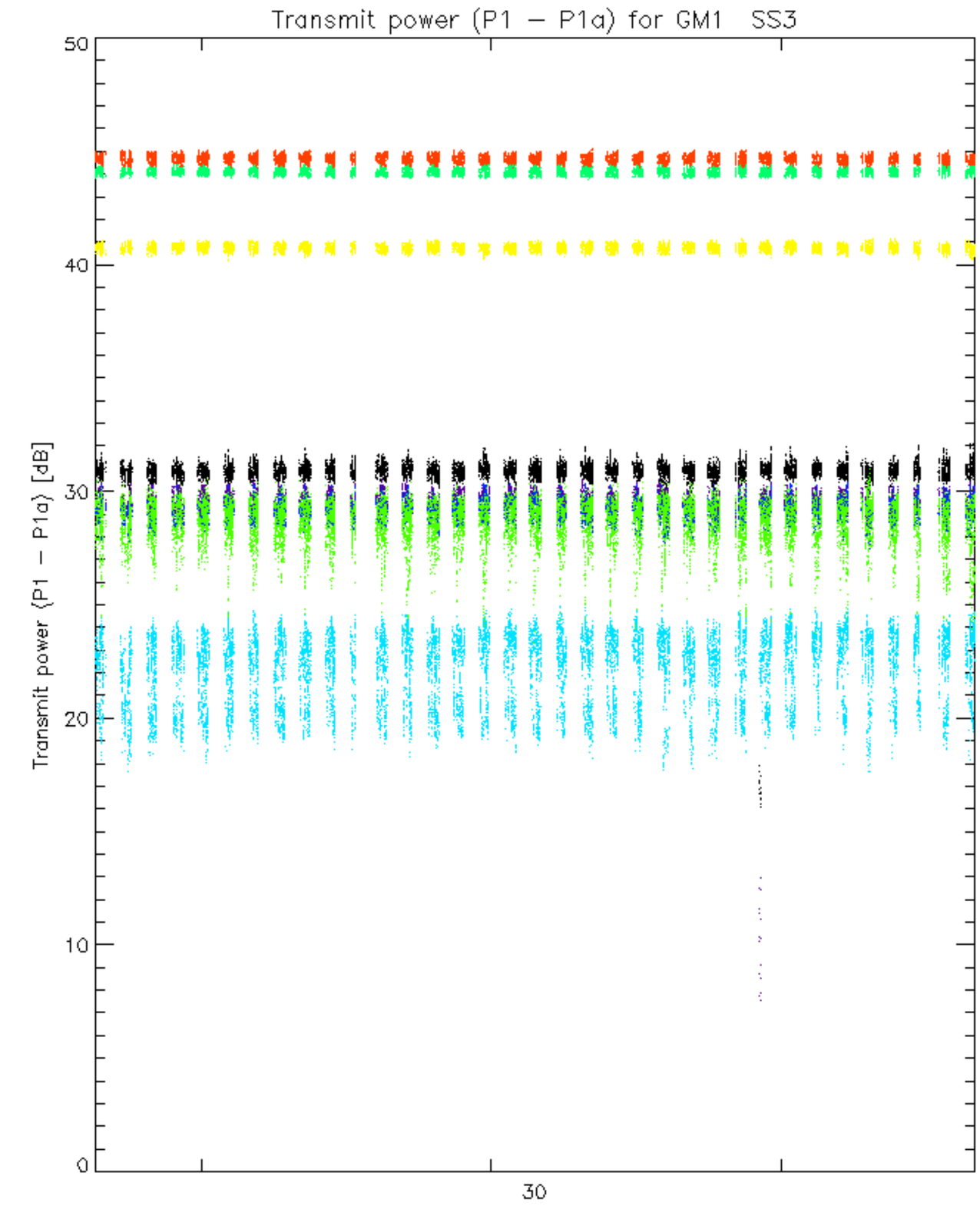
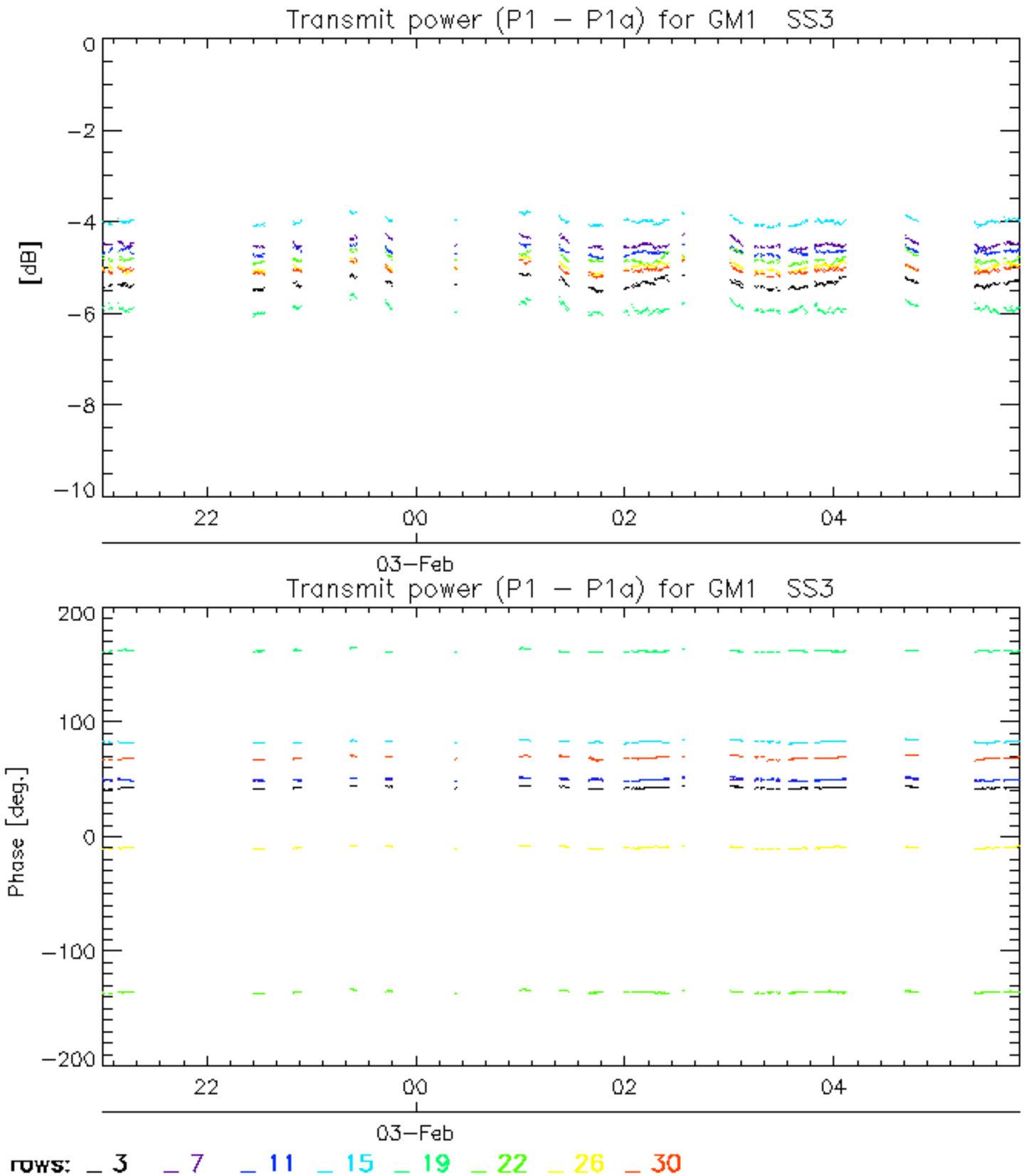
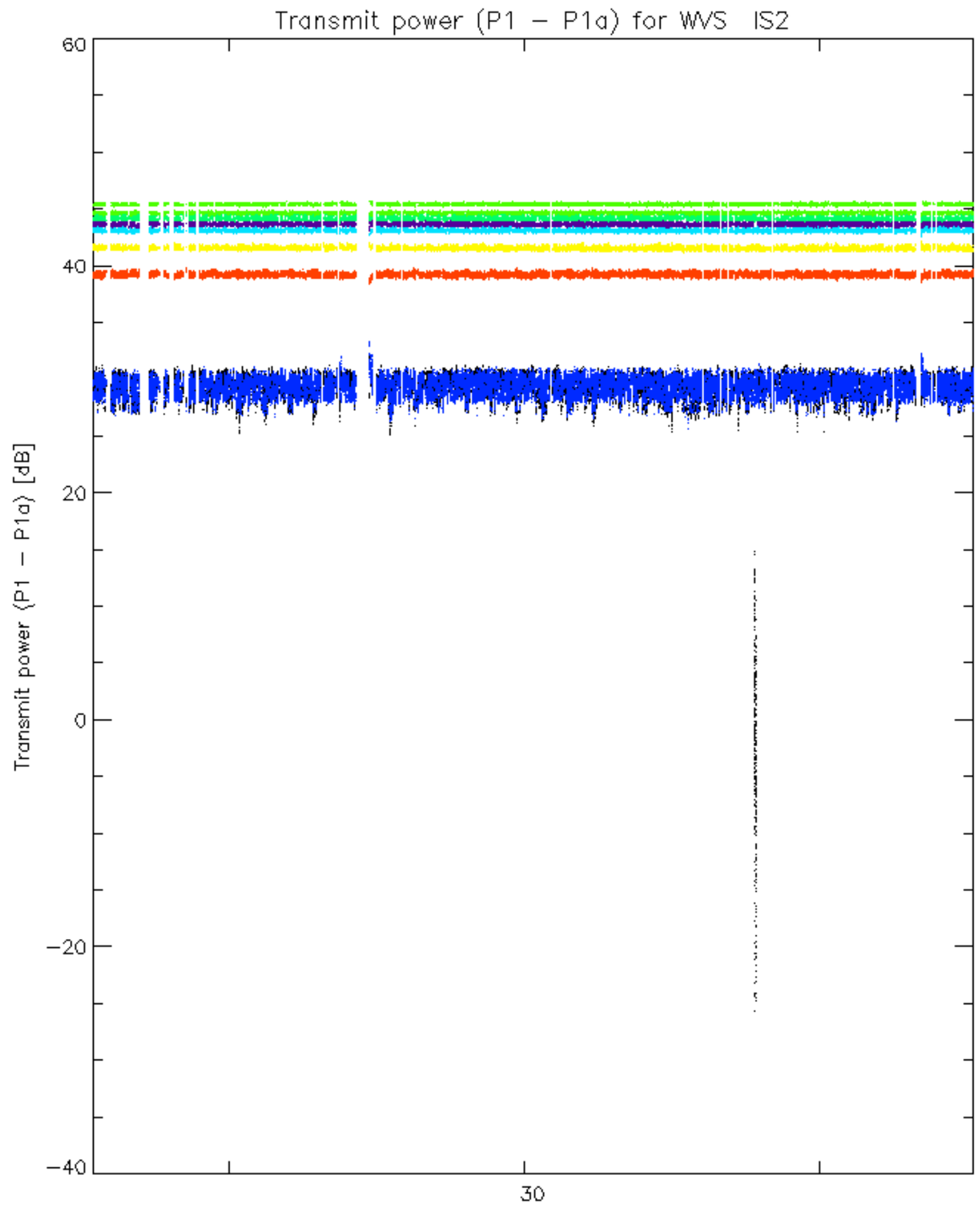
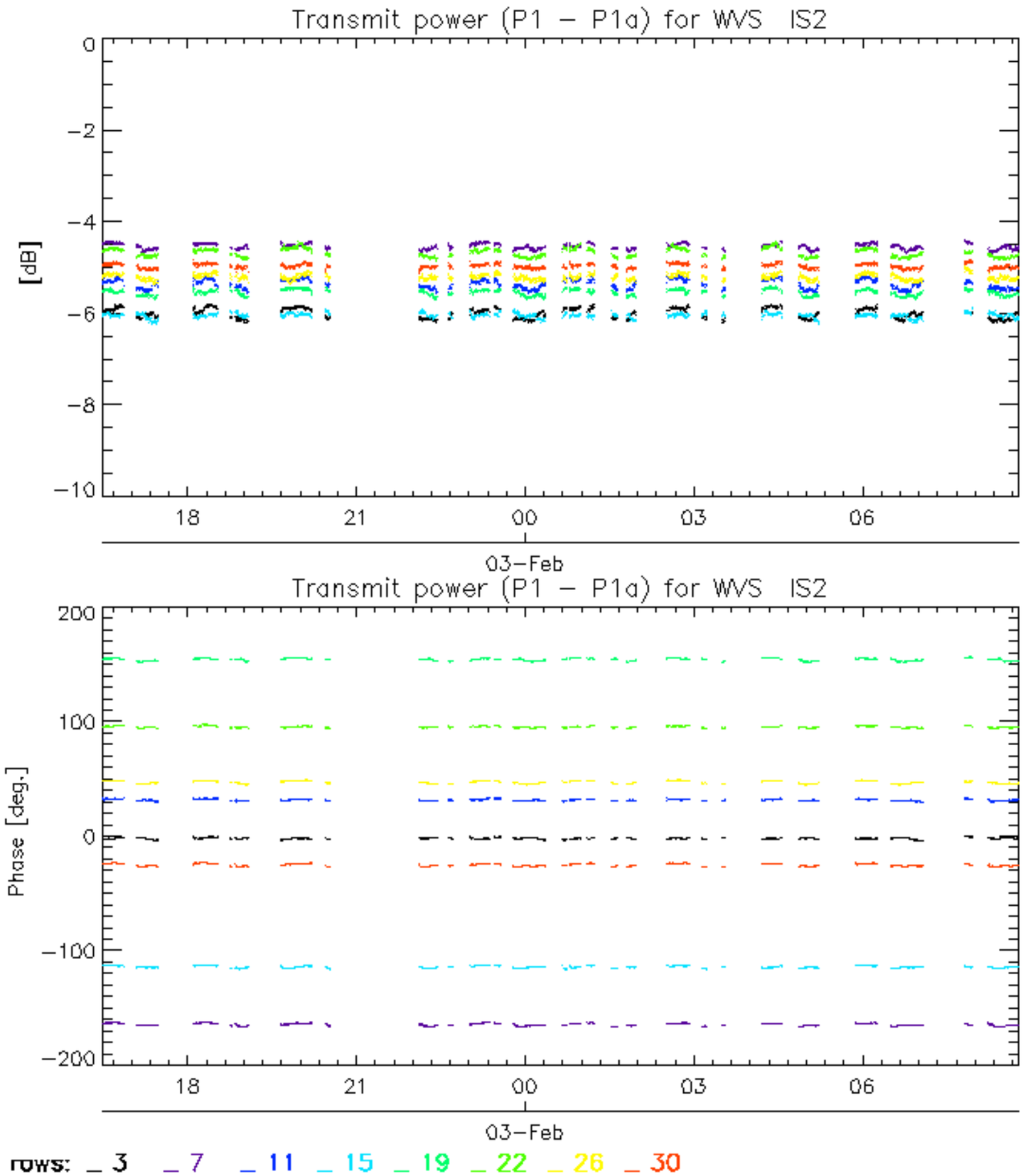

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
30
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
22
00
02
04
03–Feb
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
22
00
02
04
03–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
30
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
03–Feb
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
03–Feb
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.