PRELIMINARY REPORT OF 060221

last update on Tue Feb 21 16:41:01 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 2006-02-20 00:00:00 to 2006-02-21 16:41:01

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

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	42	0	14	1	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	42	0	14	1	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	42	0	14	1	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	42	0	14	1	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	52	42	42	9	49
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	52	42	42	9	49
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	52	42	42	9	49
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	52	42	42	9	49

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	20060220 054043
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	-4.006720	0.008846	0.022041
7	P1	-3.003067	0.011869	0.028168
11	P1	-4.088039	0.022175	0.043961
15	P1	-6.063056	0.019580	-0.000368
19	P1	-3.265070	0.006631	-0.028333
22	P1	-4.468921	0.017157	0.044580
26	P1	-4.186998	0.012980	0.023417
30	P1	-5.772729	0.010298	0.009964
3	P1	-16.921377	0.262129	-0.181579
7	P1	-16.666544	0.118699	-0.021021
11	P1	-16.580498	0.324907	0.177540
15	P1	-13.137522	0.110435	0.243448
19	P1	-13.898667	0.065844	0.010305
22	P1	-15.728261	0.535942	0.448939
26	P1	-15.757802	0.262390	-0.064938
30	P1	-16.554789	0.291770	0.223186

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.506826	0.091223	0.206940
7	P2	-22.418438	0.094582	0.061021
11	P2	-16.254665	0.100546	0.046483
15	P2	-7.184358	0.101390	0.061423
19	P2	-9.152330	0.095249	0.054453
22	P2	-17.939371	0.092138	0.045007
26	P2	-16.212906	0.098485	0.029392
30	P2	-19.639044	0.084347	0.022809

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.198545	0.007101	0.029276
7	P3	-8.198545	0.007101	0.029276
11	P3	-8.198545	0.007101	0.029276
15	P3	-8.198545	0.007101	0.029276
19	P3	-8.198545	0.007101	0.029276
22	P3	-8.198545	0.007101	0.029276
26	P3	-8.198545	0.007101	0.029276
30	P3	-8.198545	0.007101	0.029276

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	-3.740011	0.011426	-0.013902
7	P1	-2.745473	0.007764	-0.030672
11	P1	-2.894704	0.014693	-0.053698
15	P1	-3.513970	0.020687	-0.090682
19	P1	-3.380129	0.010966	0.021851
22	P1	-5.152084	0.022311	-0.043328
26	P1	-5.836629	0.019466	0.083545
30	P1	-5.220816	0.026863	0.051084
3	P1	-11.553583	0.045062	-0.064359
7	P1	-9.936047	0.049901	-0.054447
11	P1	-10.163774	0.060080	-0.143021
15	P1	-10.698819	0.102638	-0.146119
19	P1	-15.445804	0.062654	0.078875
22	P1	-20.382782	1.199494	0.321997

26	P1	-16.541056	0.373001	0.413896
30	P1	-18.240417	0.322778	-0.215140

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.268478	0.043261	0.299022
7	P2	-22.714033	0.078243	0.289641
11	P2	-11.335629	0.030549	0.183072
15	P2	-4.868234	0.029825	0.118919
19	P2	-6.882459	0.027678	0.085755
22	P2	-8.172971	0.029068	0.090602
26	P2	-23.948420	0.027658	0.064468
30	P2	-22.083786	0.019873	0.034889

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.032673	0.003123	0.034394
7	P3	-8.032659	0.003117	0.034740
11	P3	-8.032610	0.003119	0.034659
15	P3	-8.032660	0.003121	0.034516
19	P3	-8.032703	0.003121	0.034807
22	P3	-8.032694	0.003125	0.035279
26	P3	-8.032794	0.003123	0.034772
30	P3	-8.032573	0.003124	0.034304

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	0.000558800
	stdev	1.69816e-07
MEAN Q	mean	0.000520820
	stdev	2.13424e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.139096
	stdev	0.00115994
STDEV Q	mean	0.139452
	stdev	0.00117875

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006022[901]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20060221_003709_000001342045_00202_20797_3819.N1	1	0
ASA_IMM_1PNPDK20060220_130809_000001212045_00196_20791_1113.N1	1	0

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

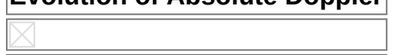
Evolution of unbiased Doppler error (Real - Expected)

Acsending

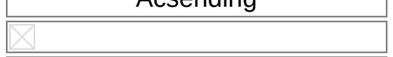
Descending

7.5 - Absolute Doppler for GM1

Evolution of Absolute Doppler



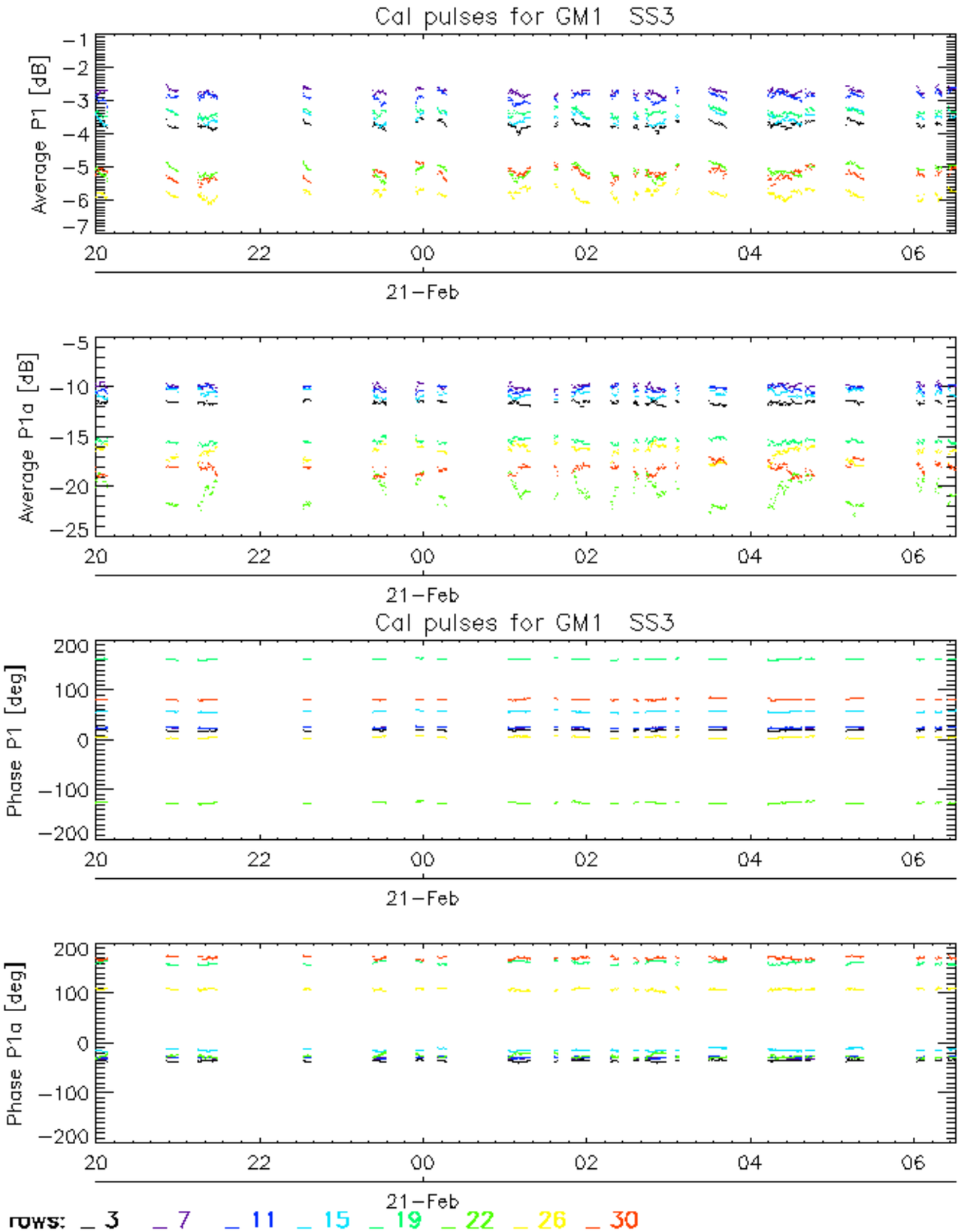
Acsending

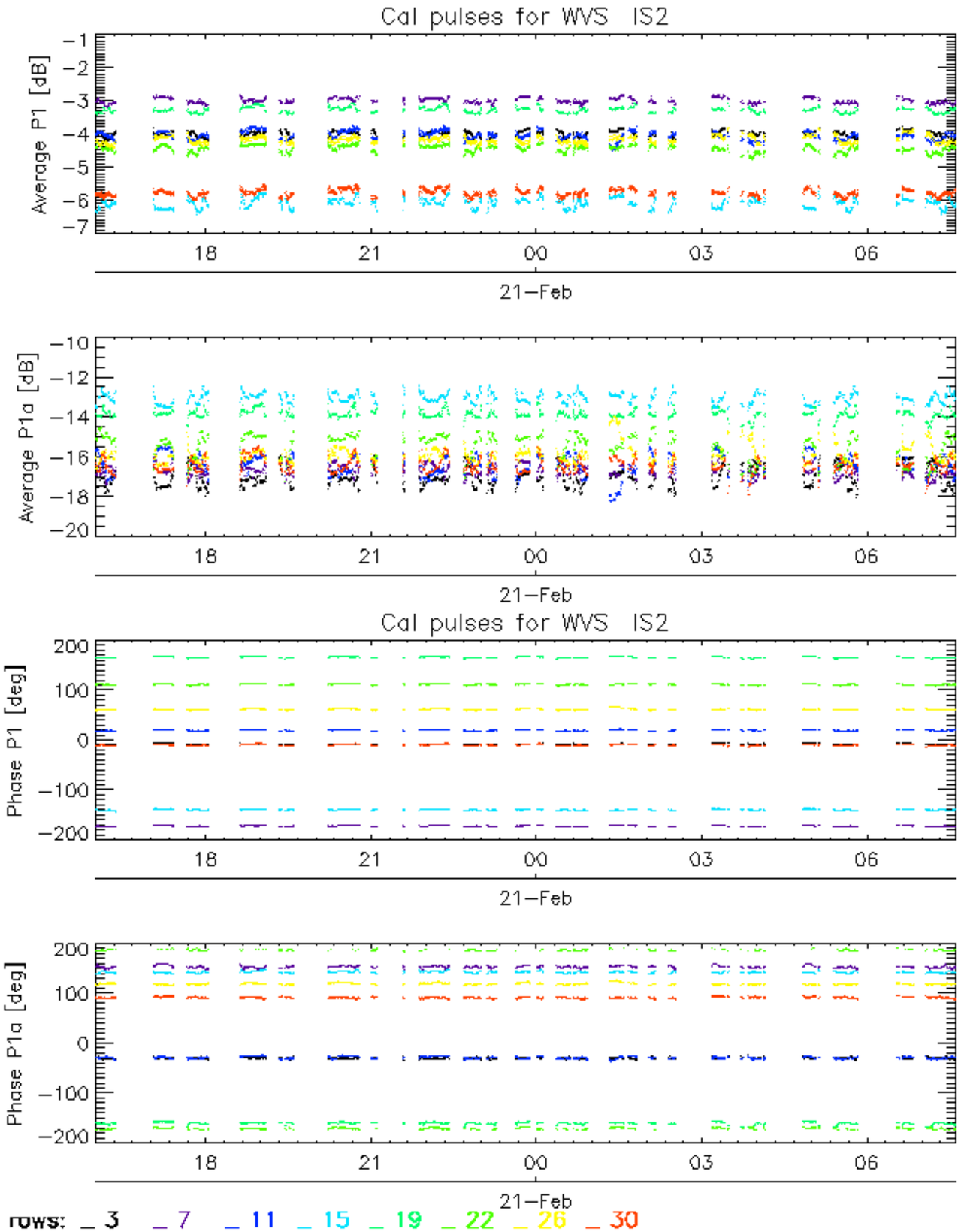


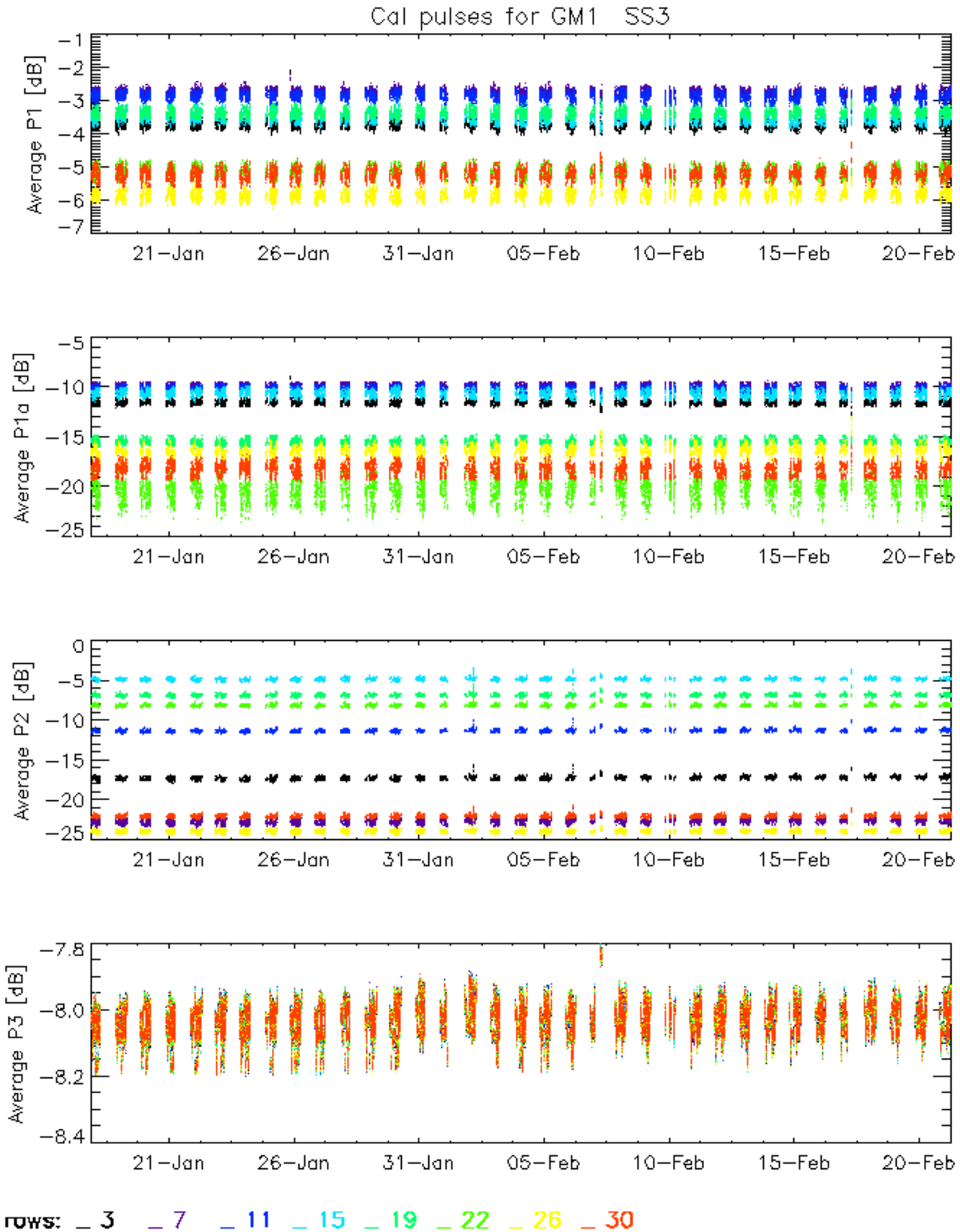
Descending

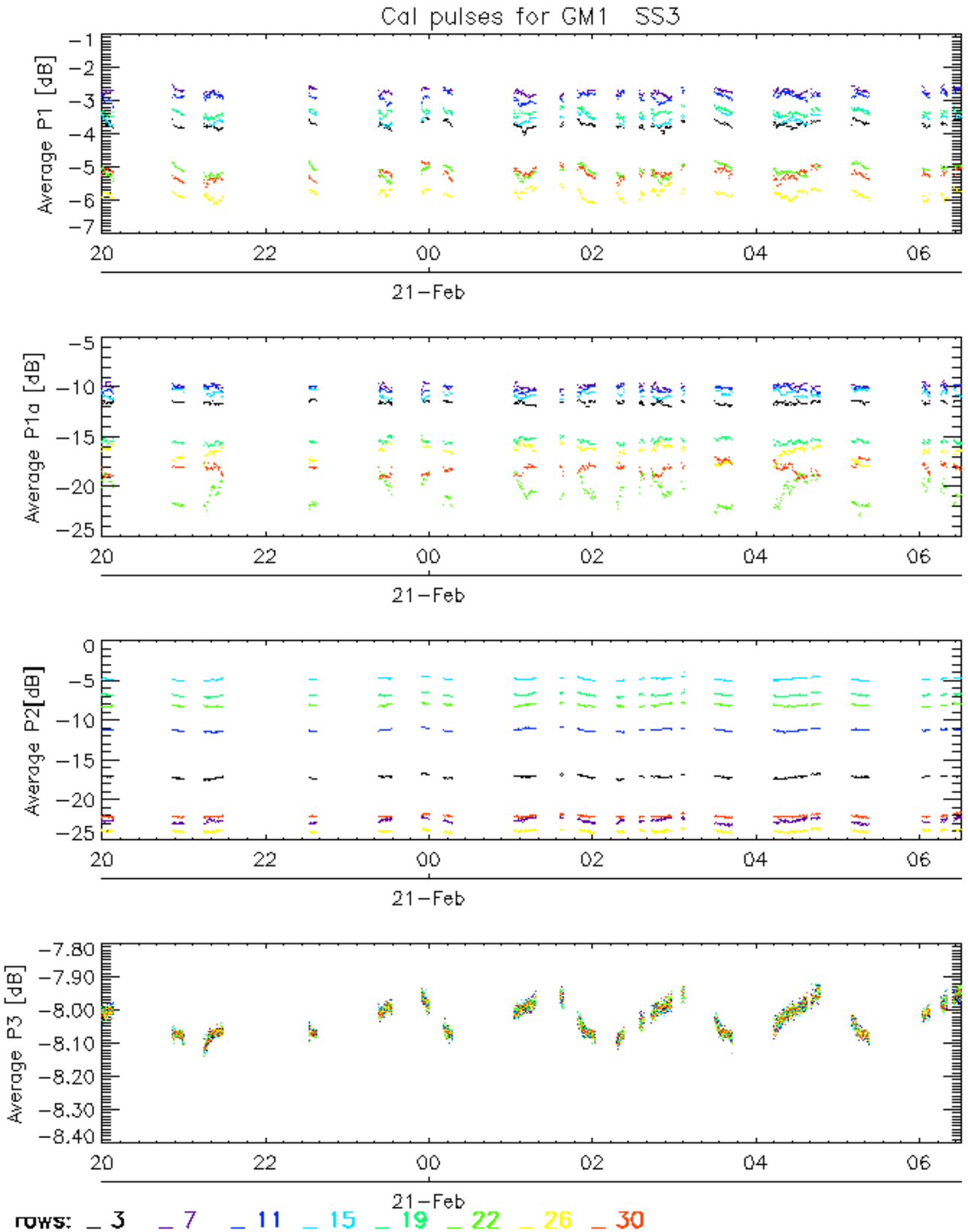
7.6 - Doppler evolution versus ANX for GM1

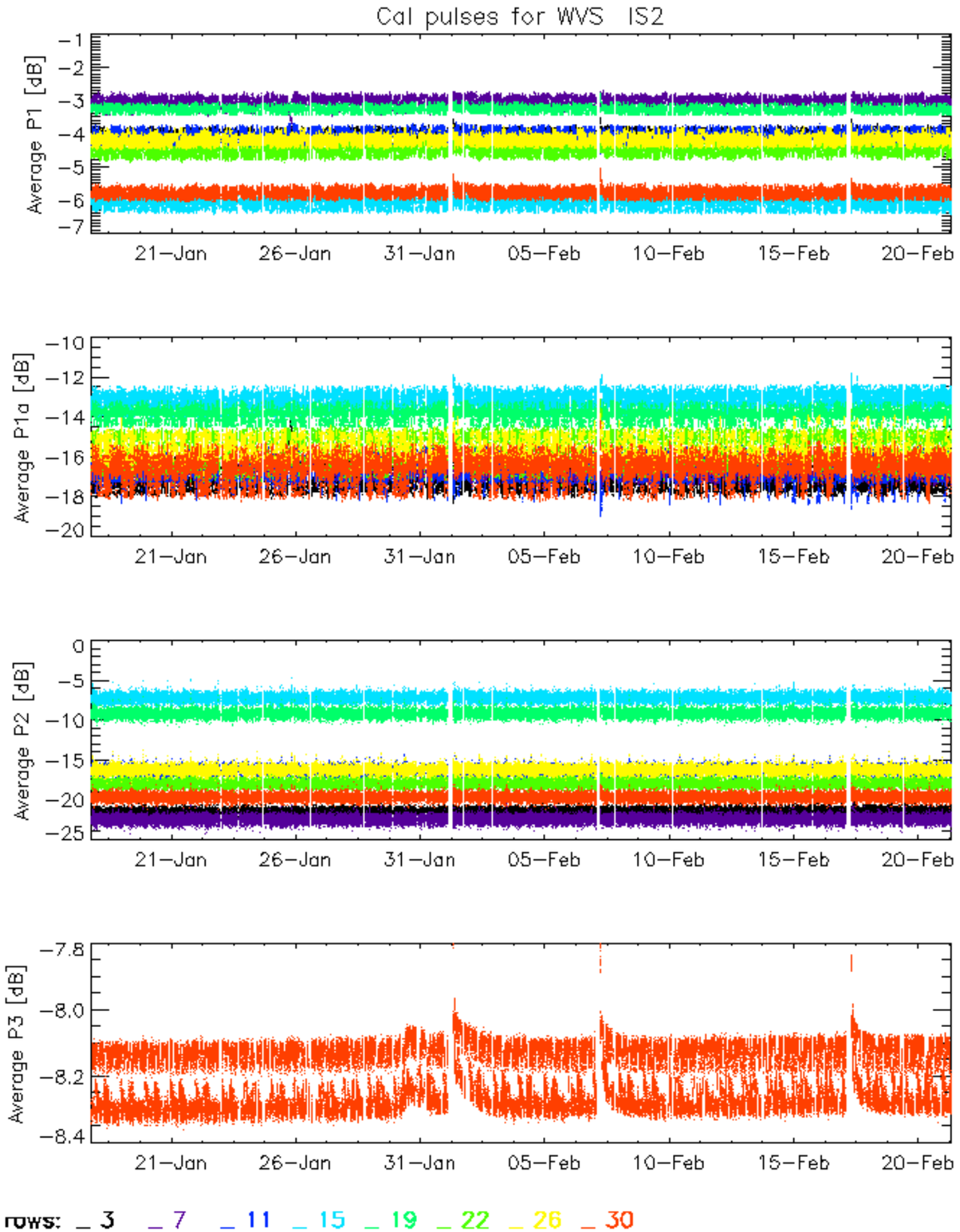
Evolution Doppler error versus ANX

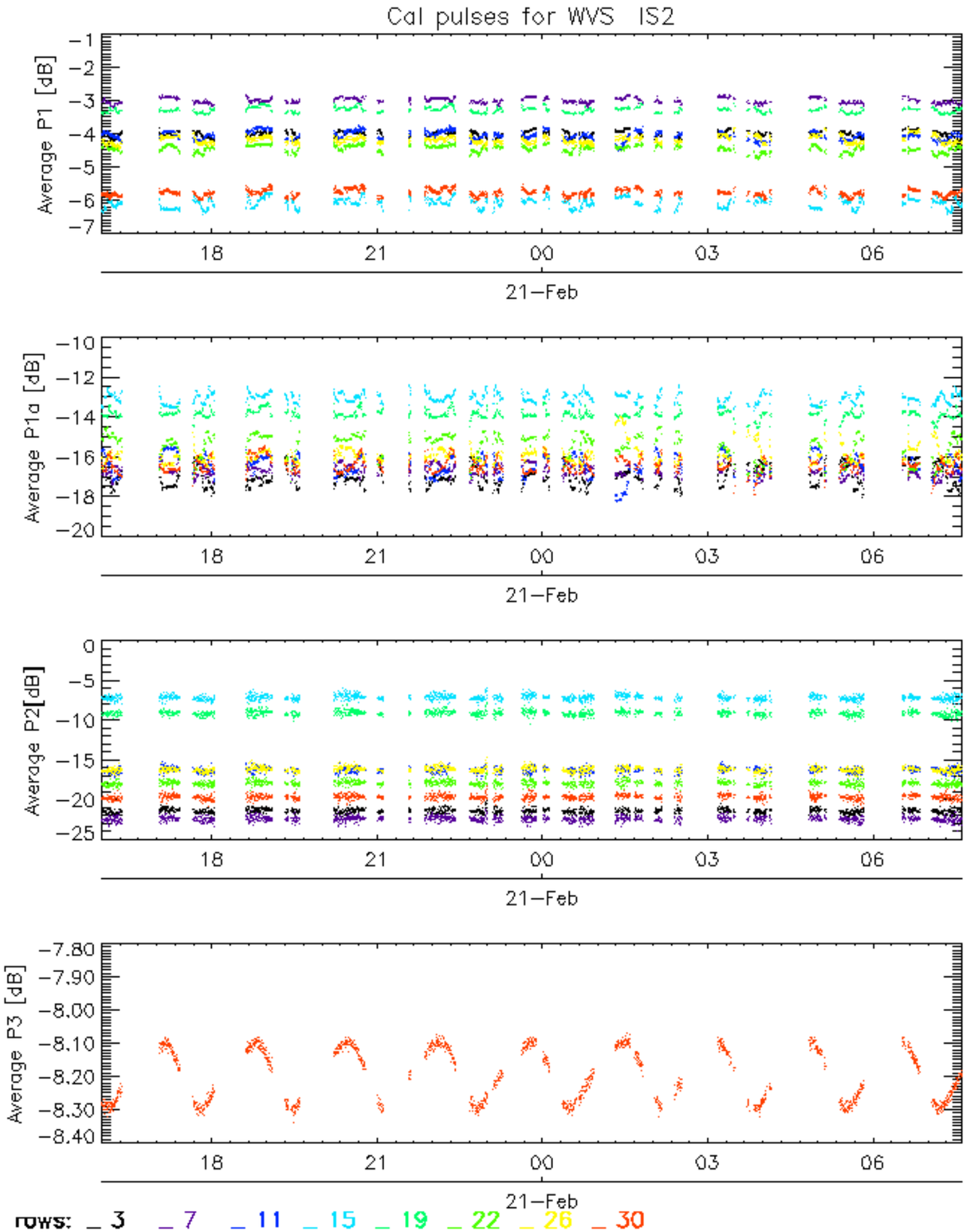

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
20
22
00
02
04
06
21−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
20
22
00
02
04
06
21−Feb
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
20
22
00
02
04
06
21−Feb
Phase P1a [deg]
200
100
0
−100
−200
20
22
00
02
04
06
21−Feb
rows: _ 3 _ 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
21−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
21−Feb
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
21−Feb
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
21−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

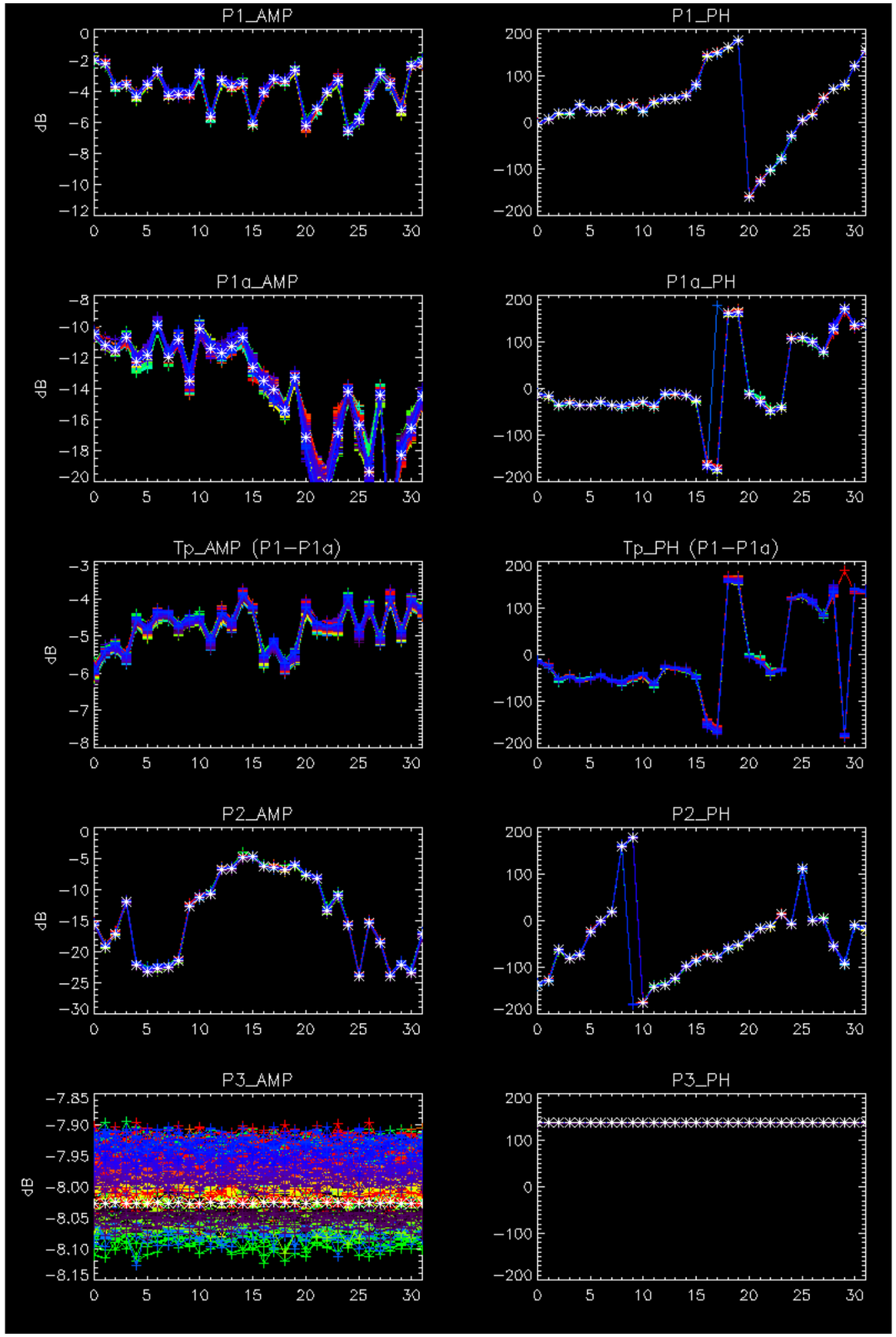

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
20
22
00
02
04
06
21−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
20
22
00
02
04
06
21−Feb
Average P2[dB]
0
−5
−10
−15
−20
−25
20
22
00
02
04
06
21−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
20
22
00
02
04
06
21−Feb
rows: _ 3 _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

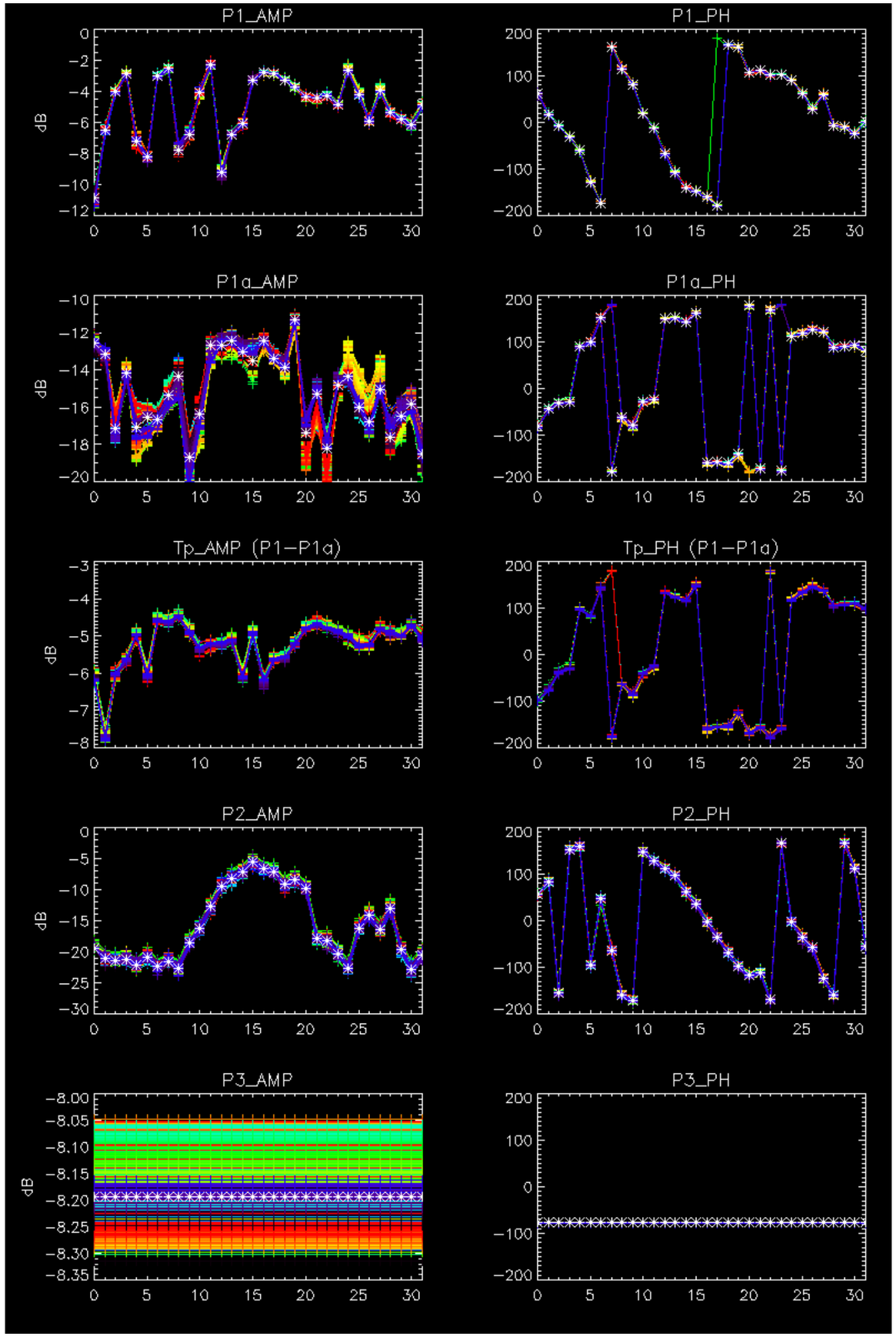

Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

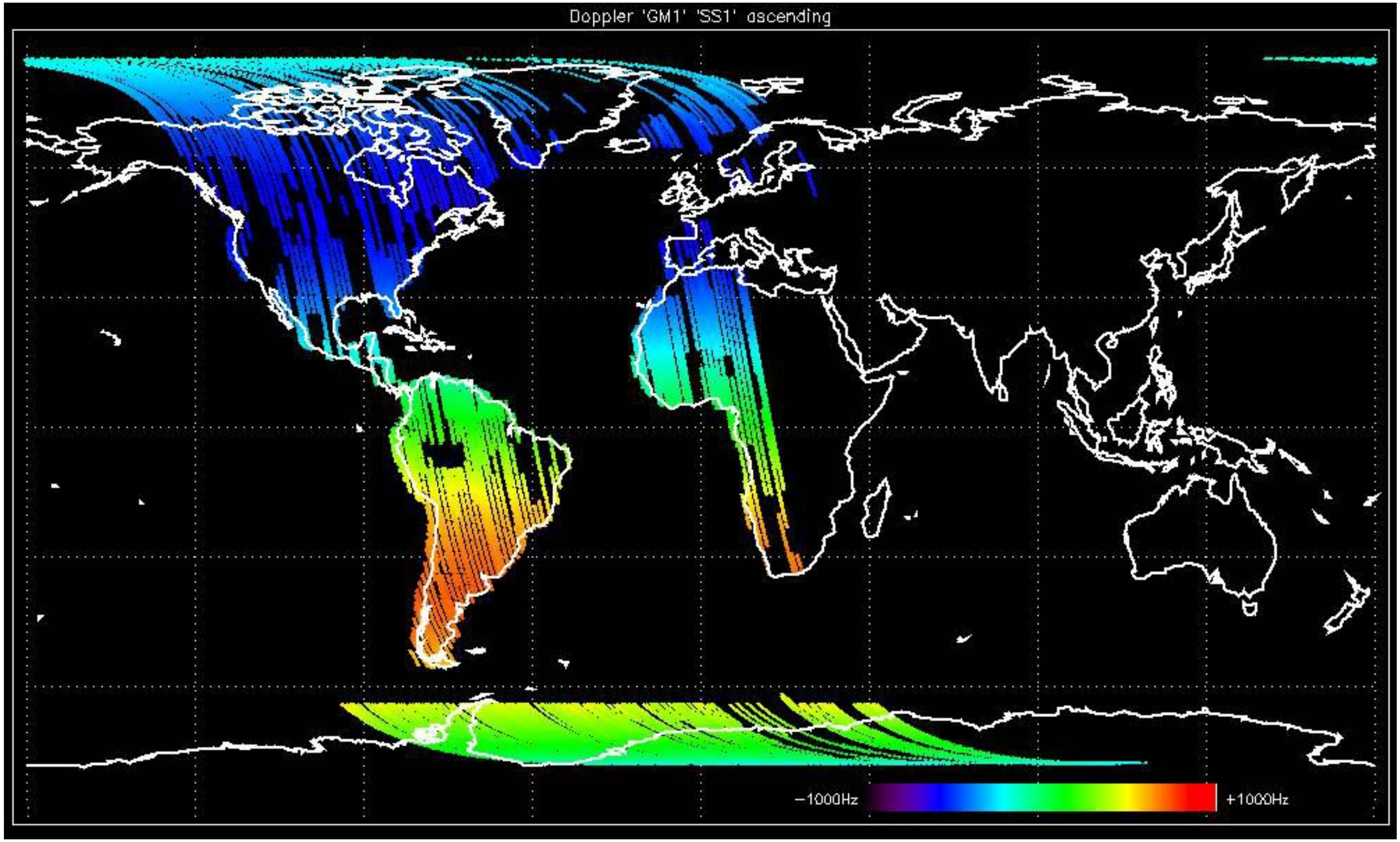
No anomalies observed.

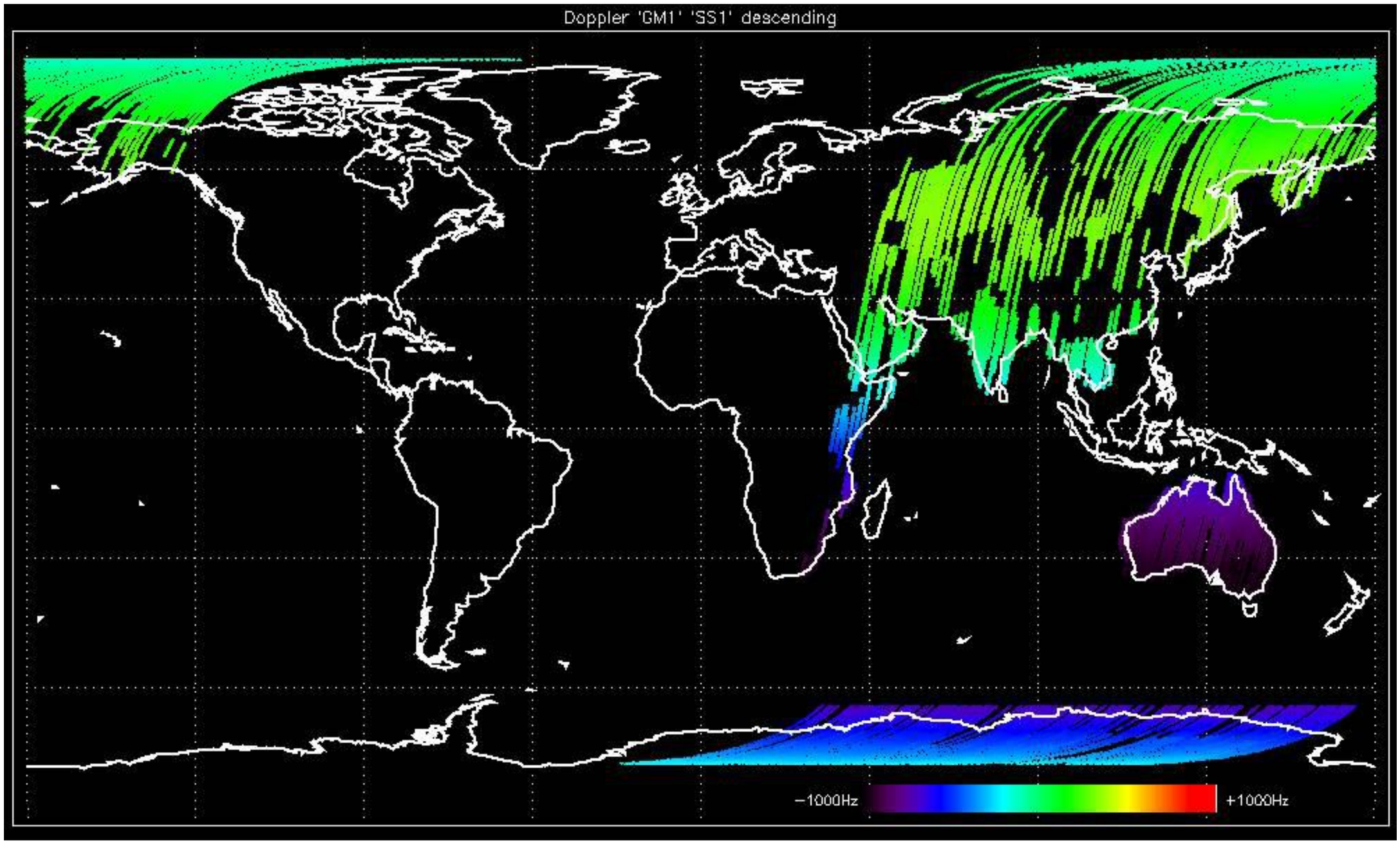

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

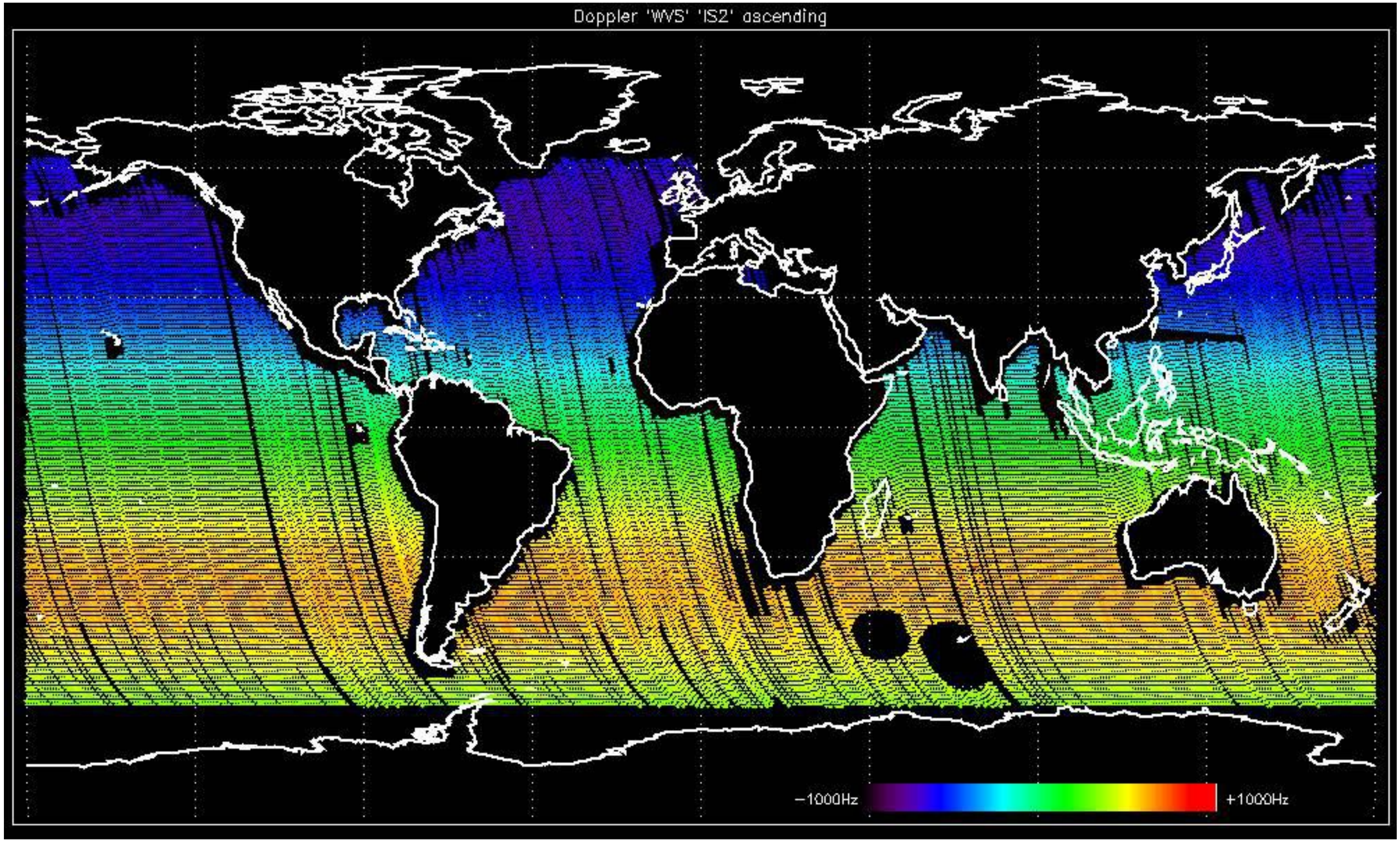

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

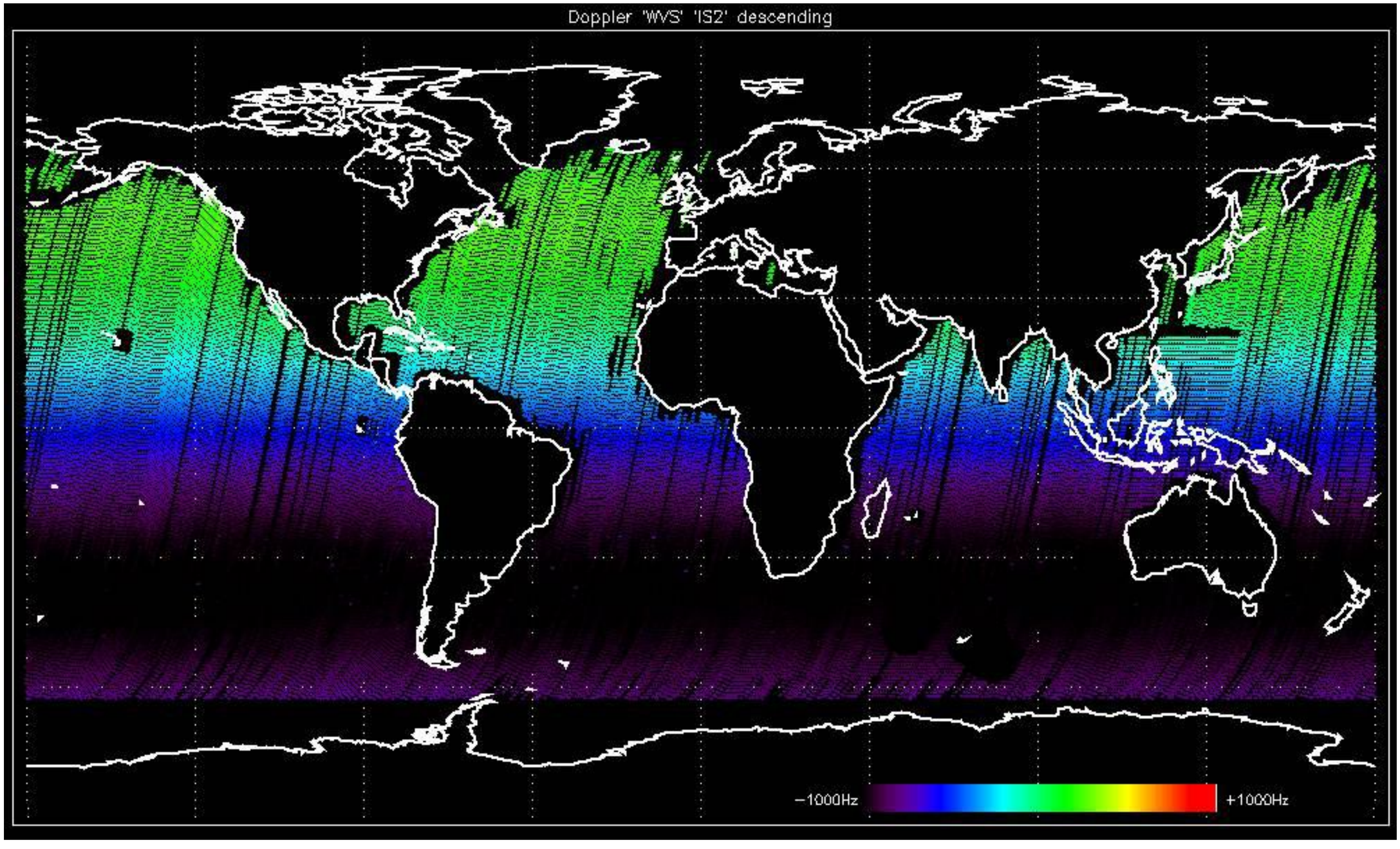
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

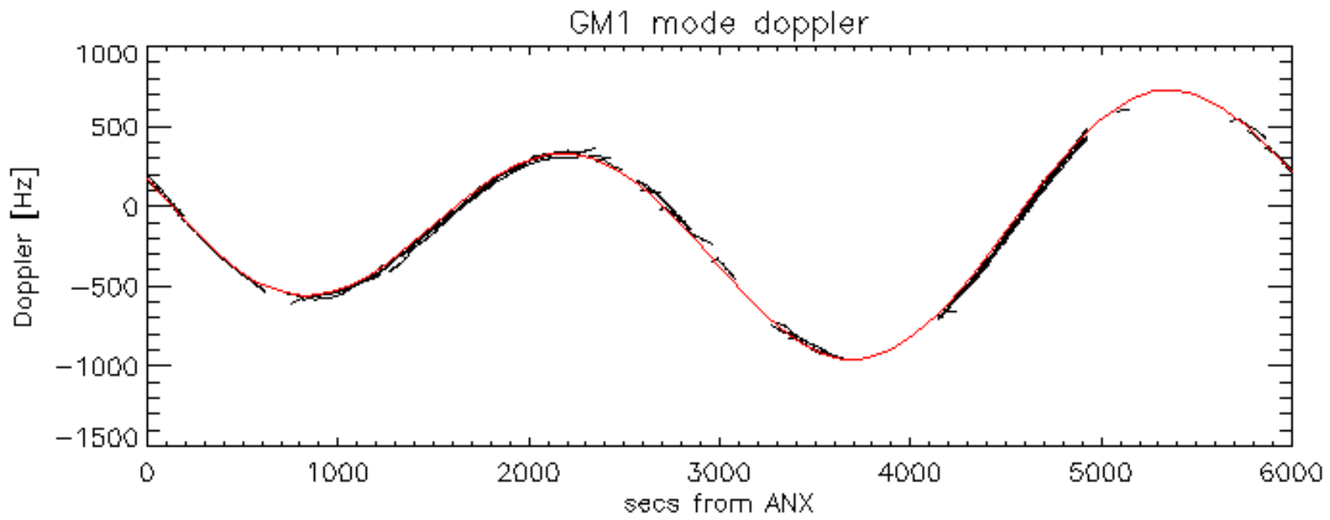
Preliminary report.The data is not yet controled

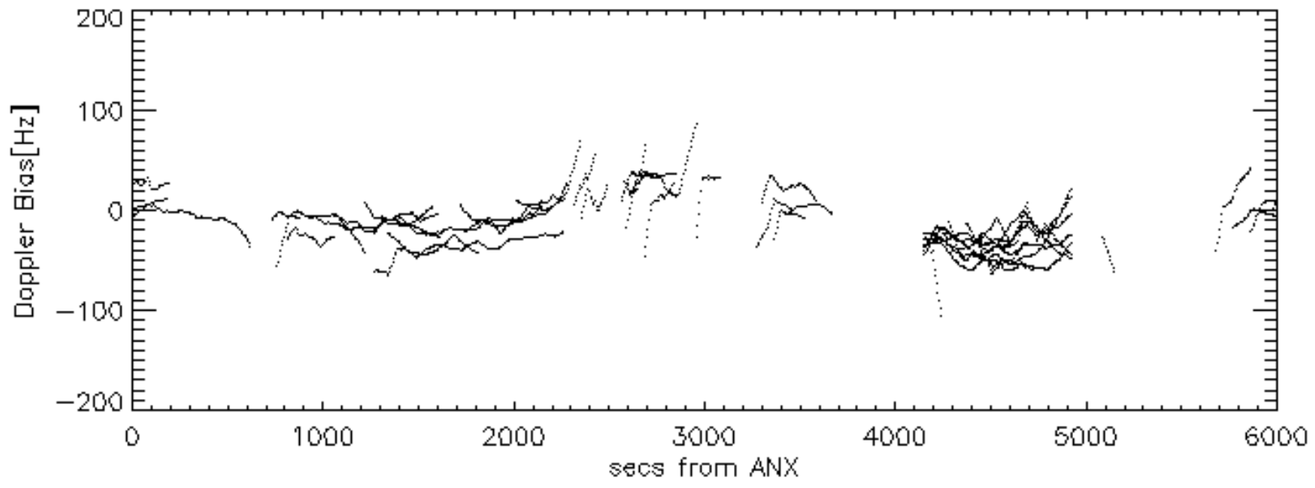

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

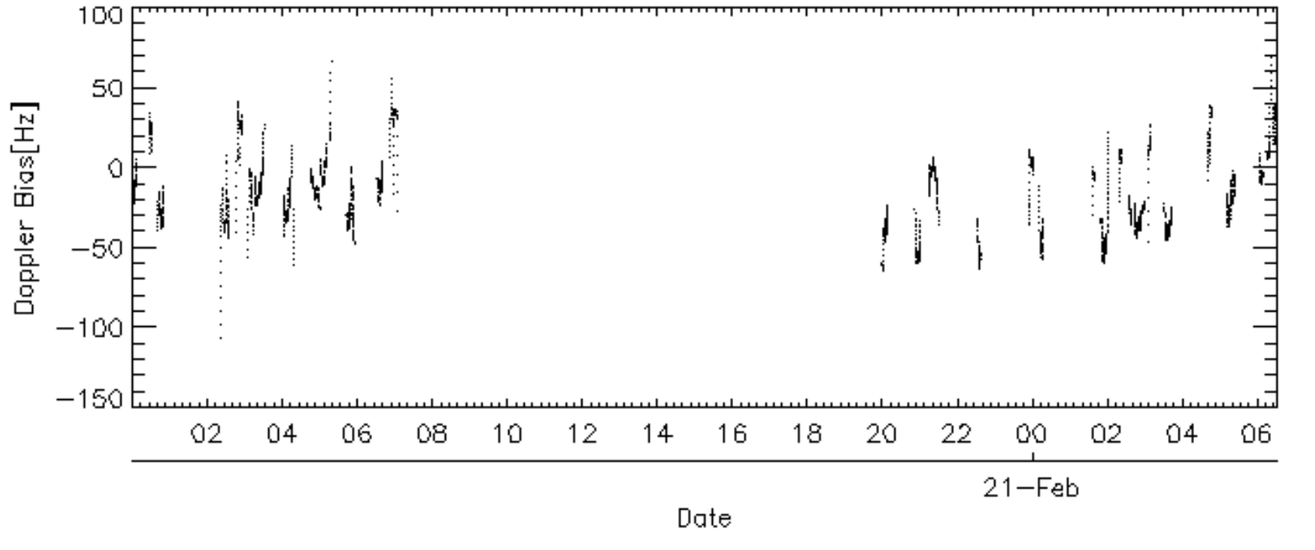

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

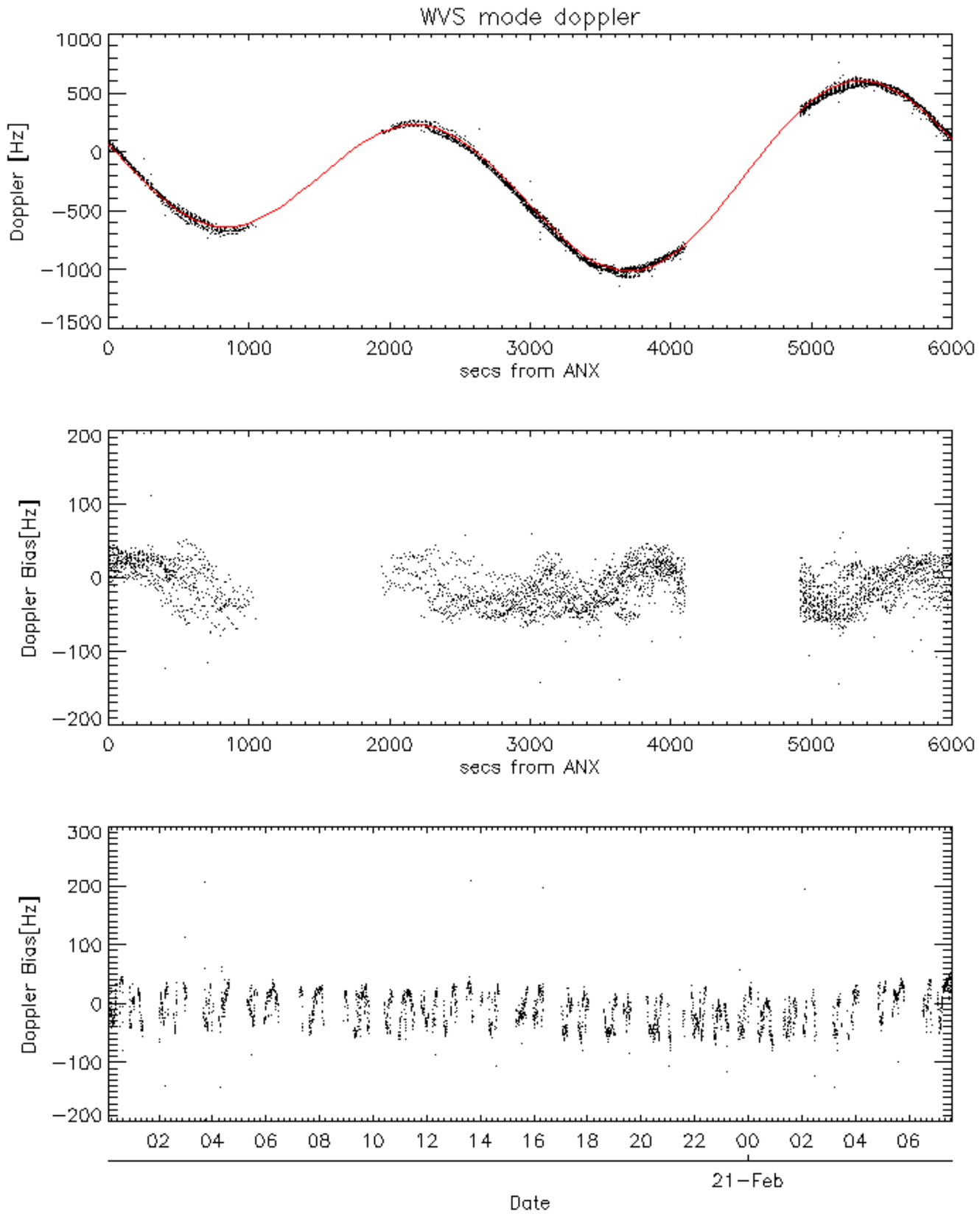

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

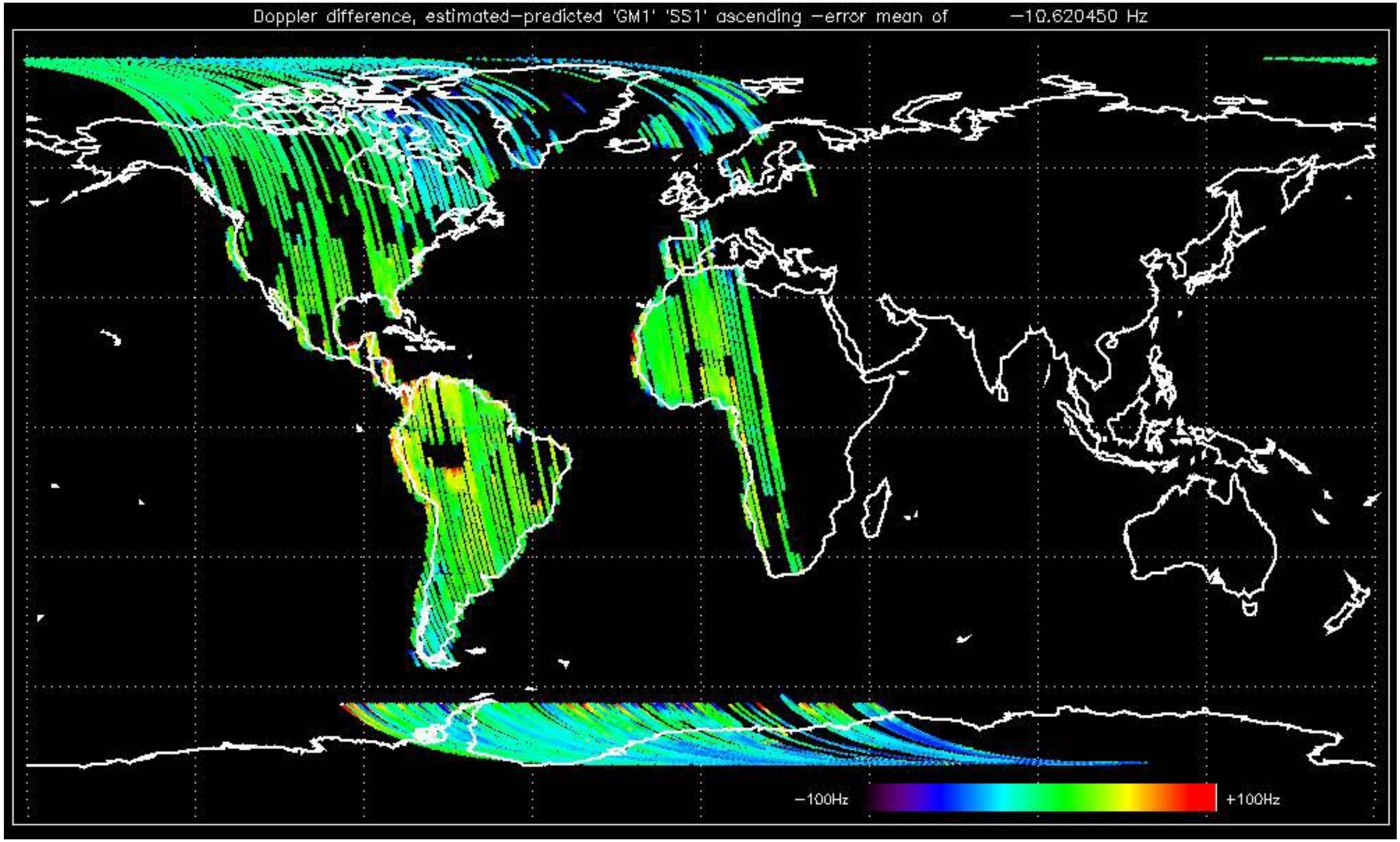

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

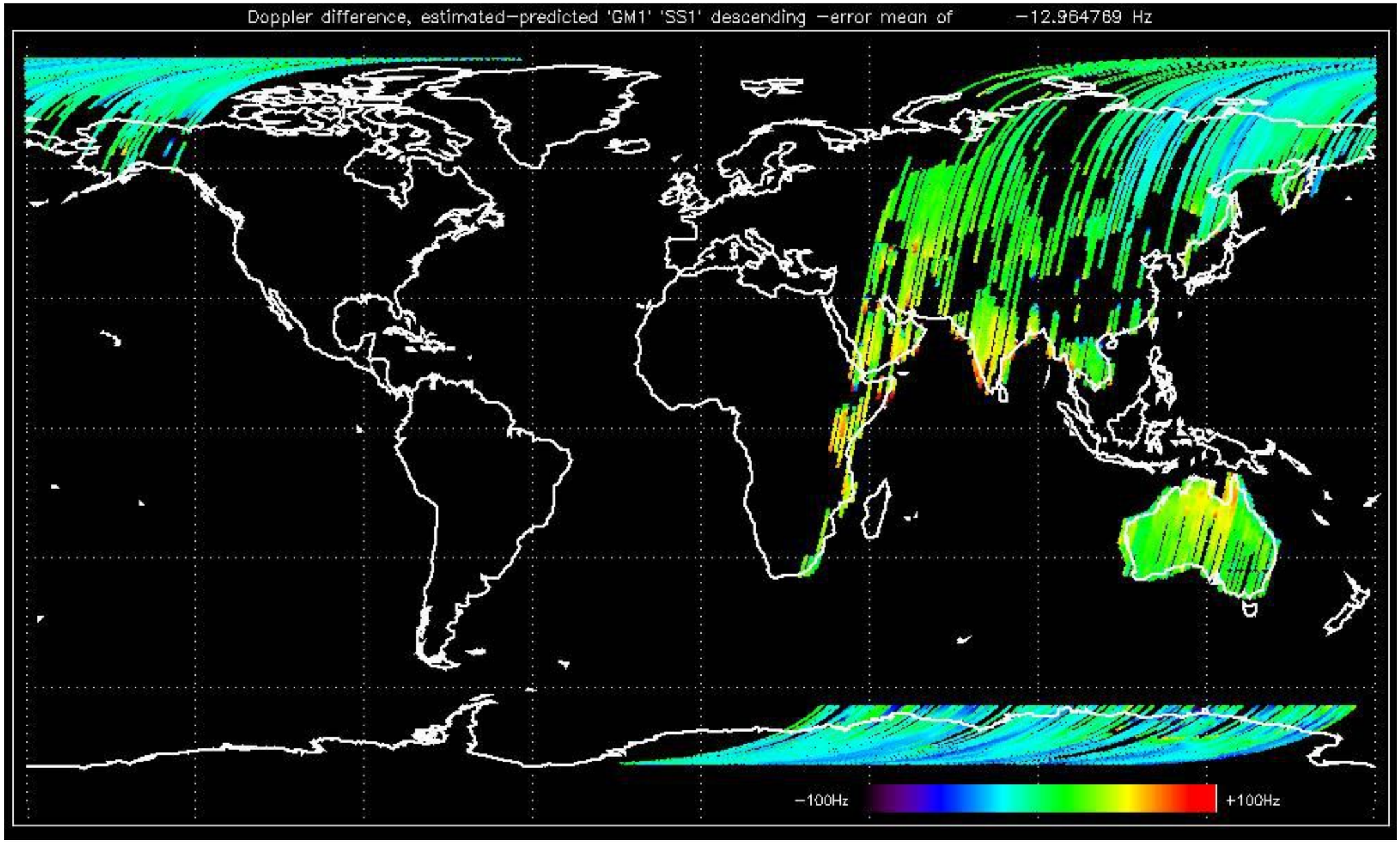

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

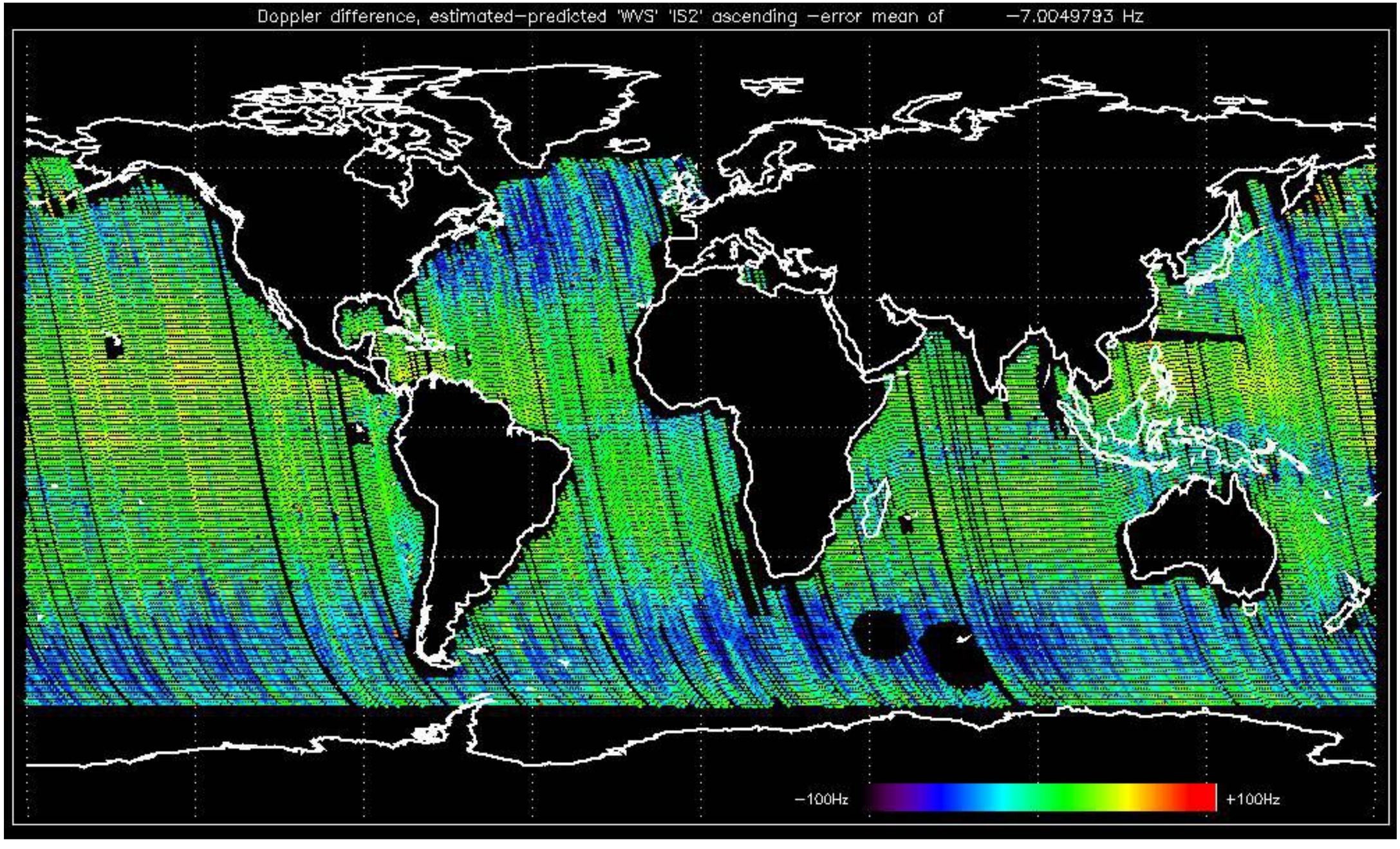

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

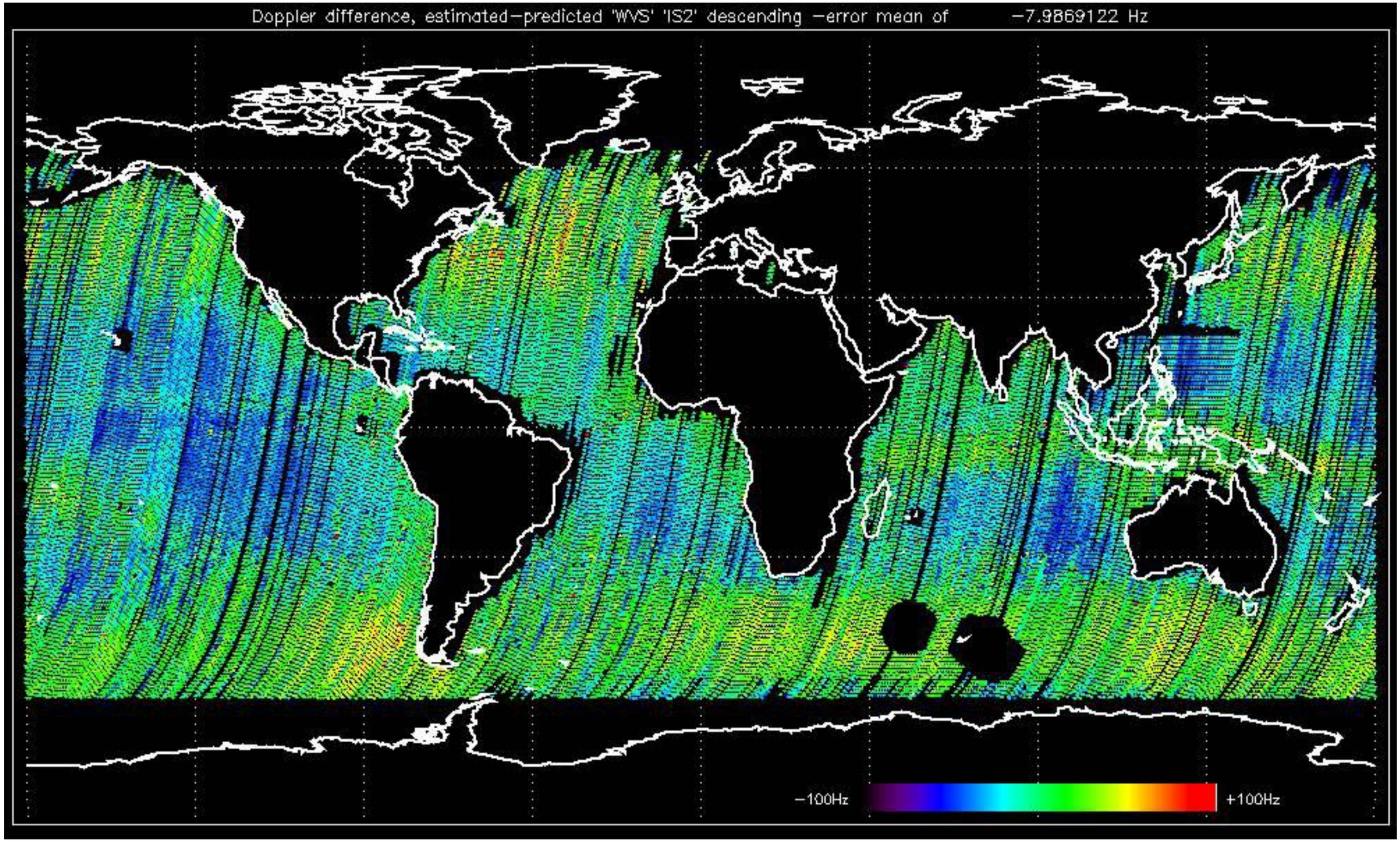

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
21−Feb
Date


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
21−Feb
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −10.620450 Hz
−100Hz
+100Hz

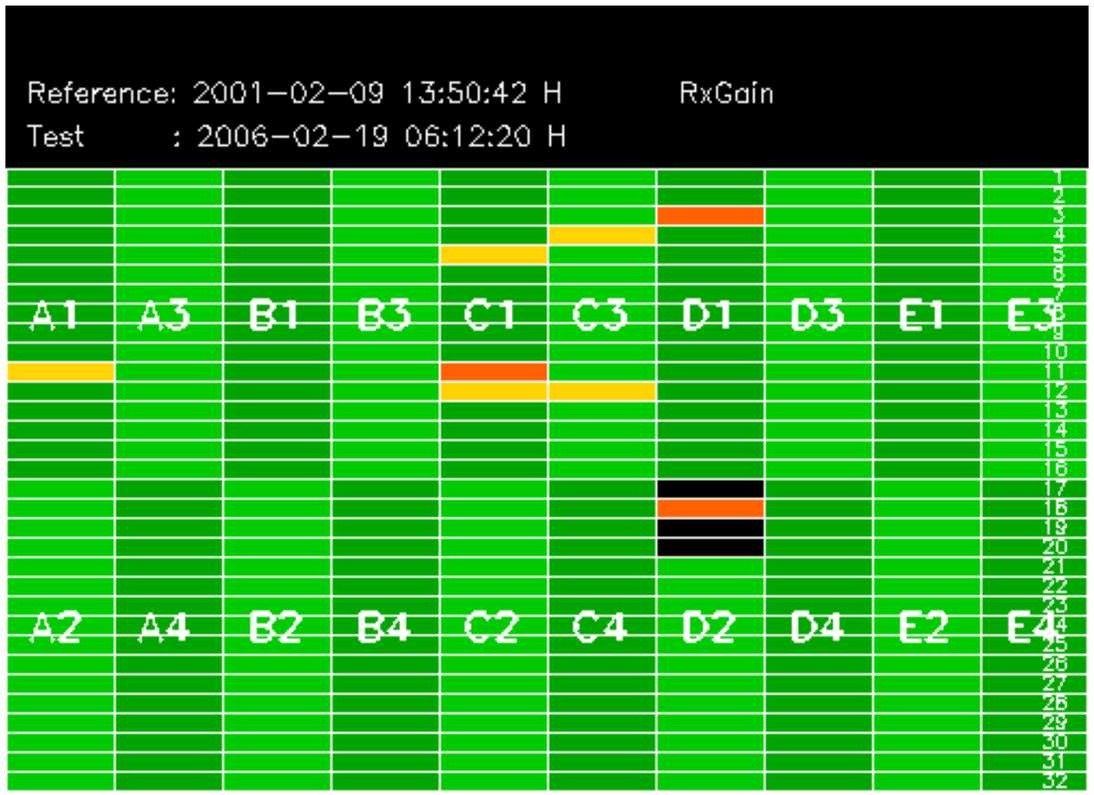

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -12.964769 Hz
-100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −7.0049793 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −7.9869122 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
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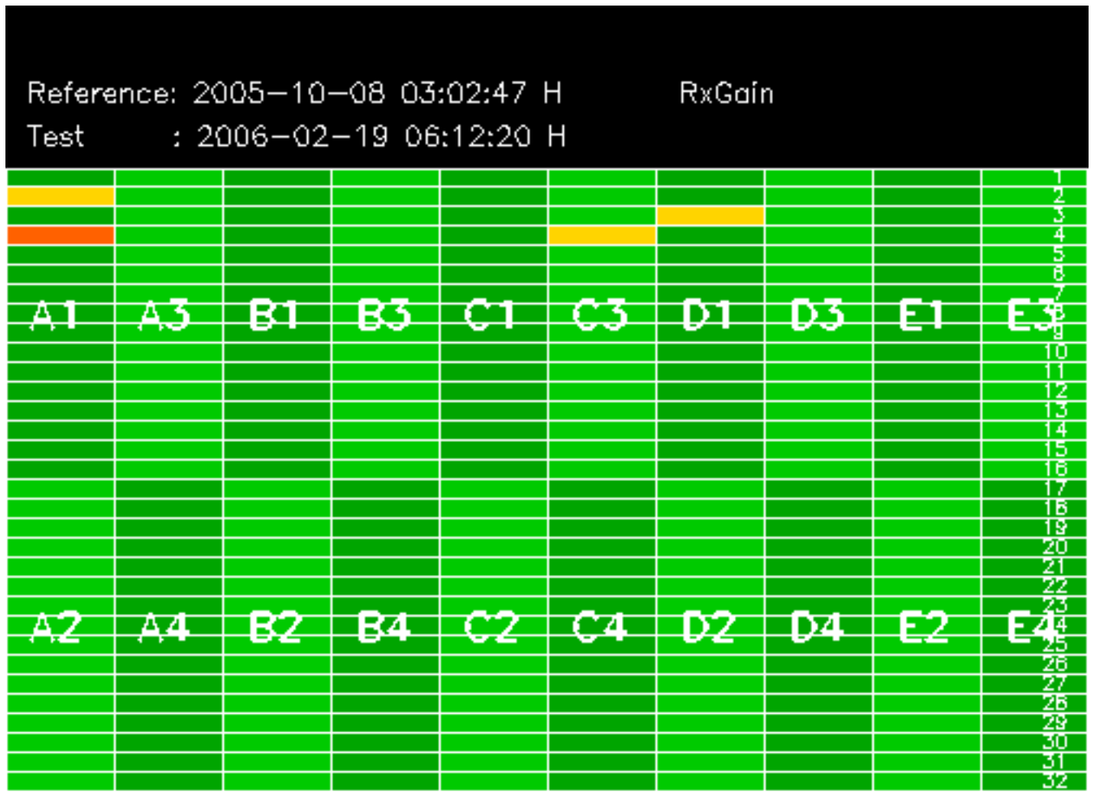
Reference: 2005-10-08 03:02:47 H
Test : 2006-02-19 06:12:20 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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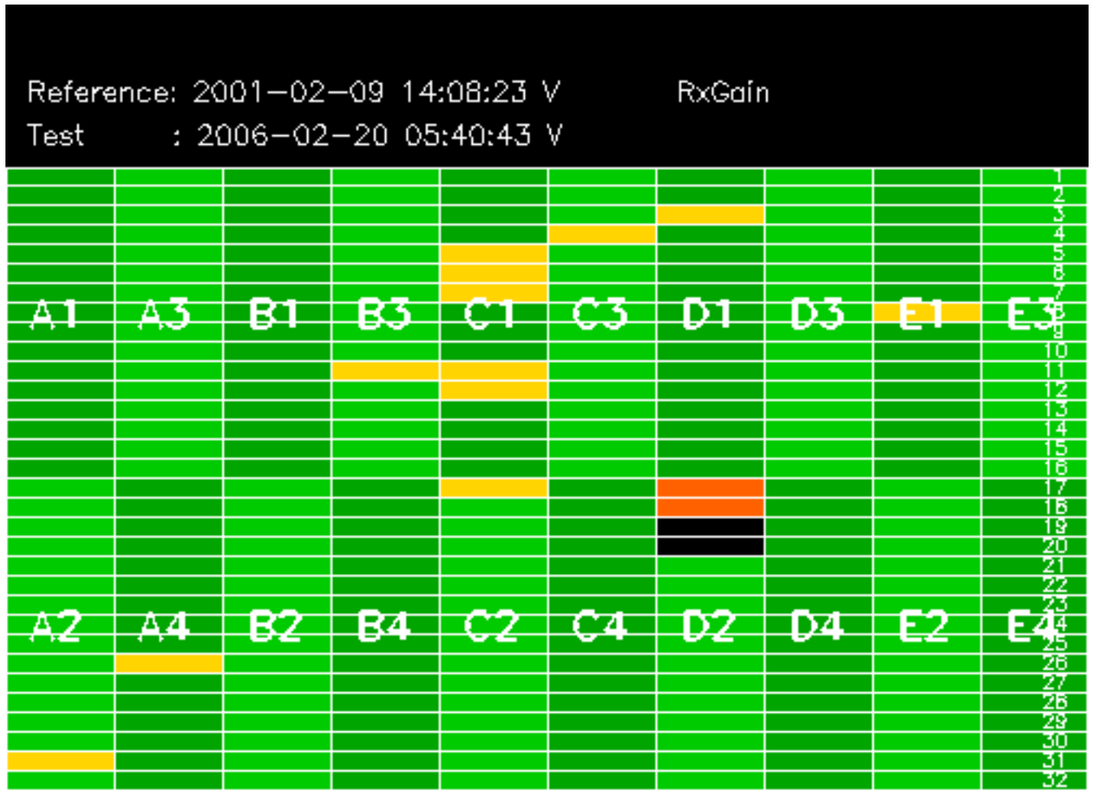
Reference: 2001-02-09 14:08:23 V
Test : 2006-02-20 05:40:43 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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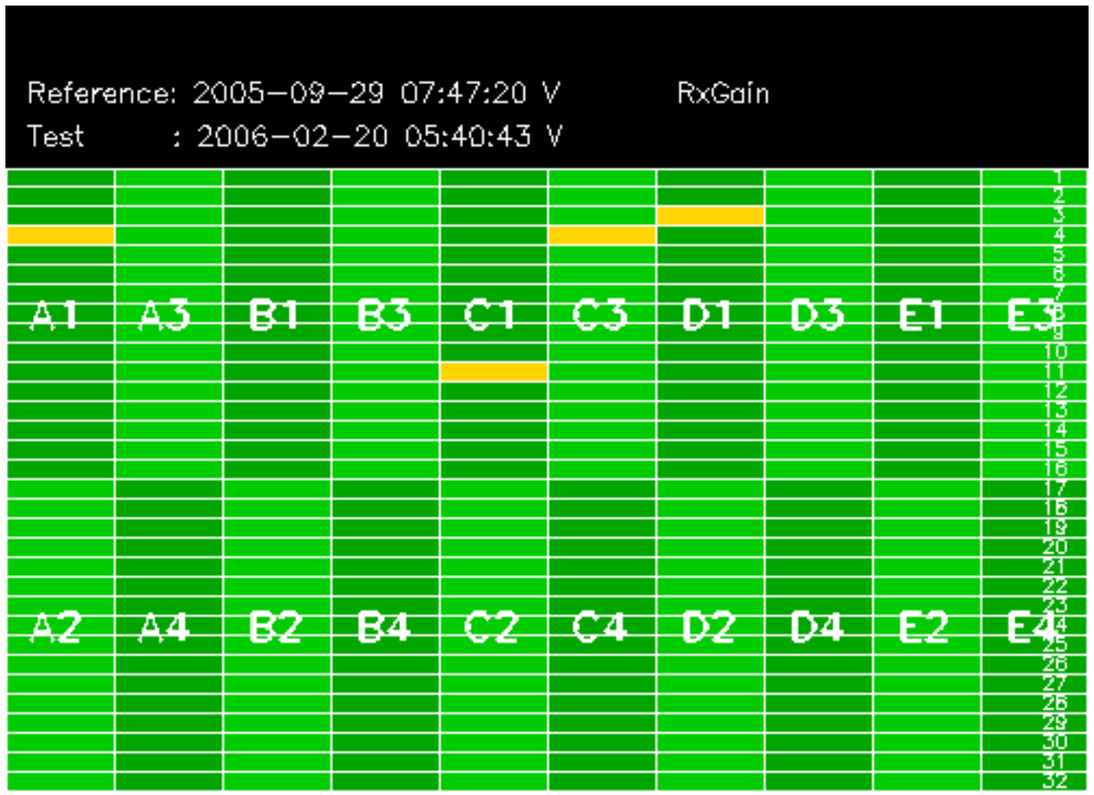
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-20 05:40:43 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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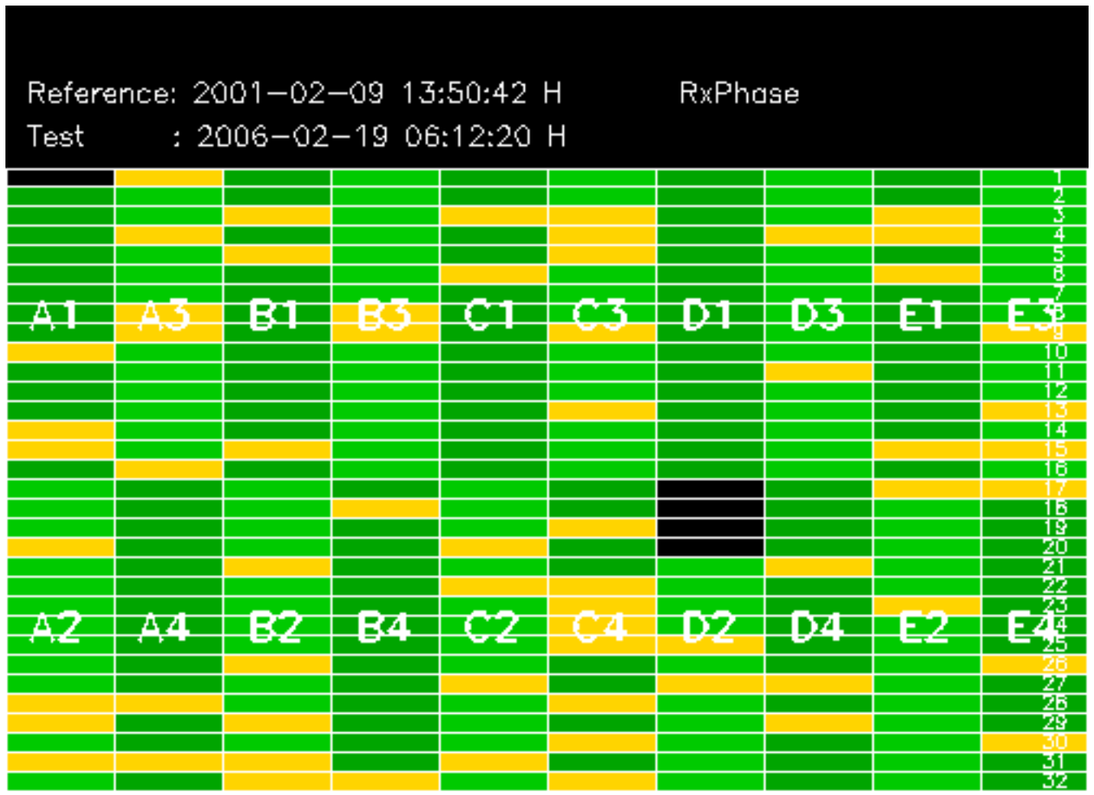
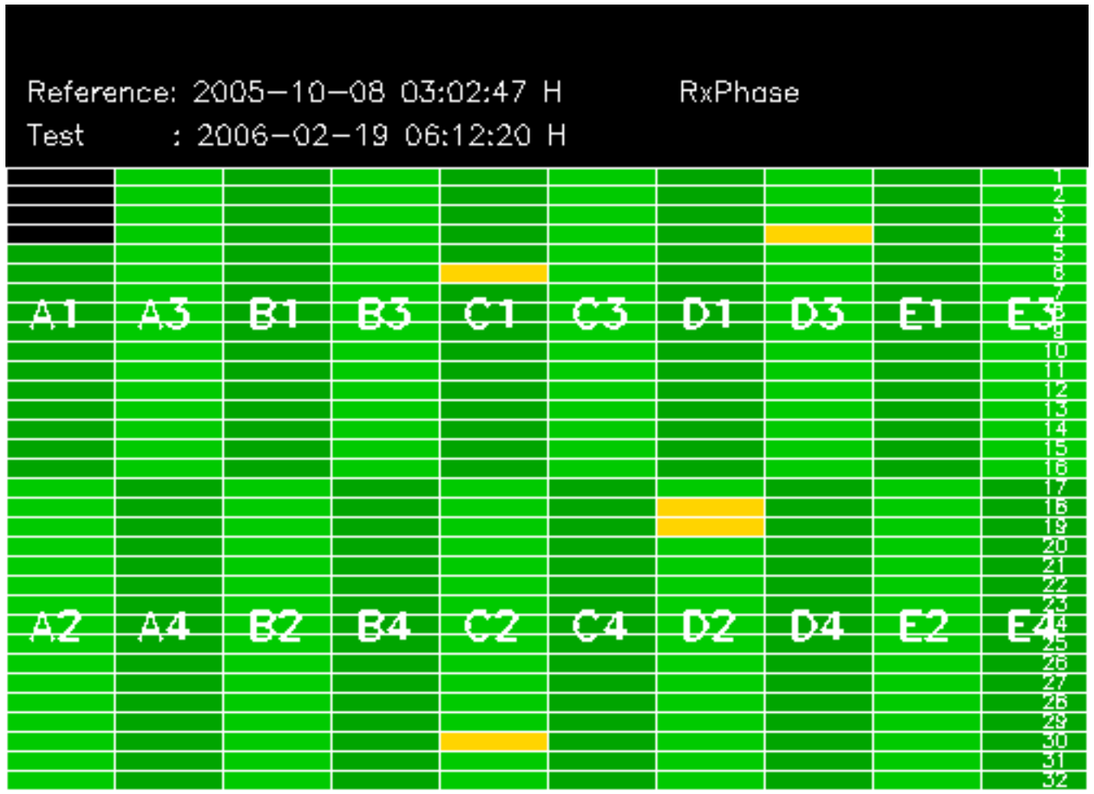

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-02-19 06:12:20 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


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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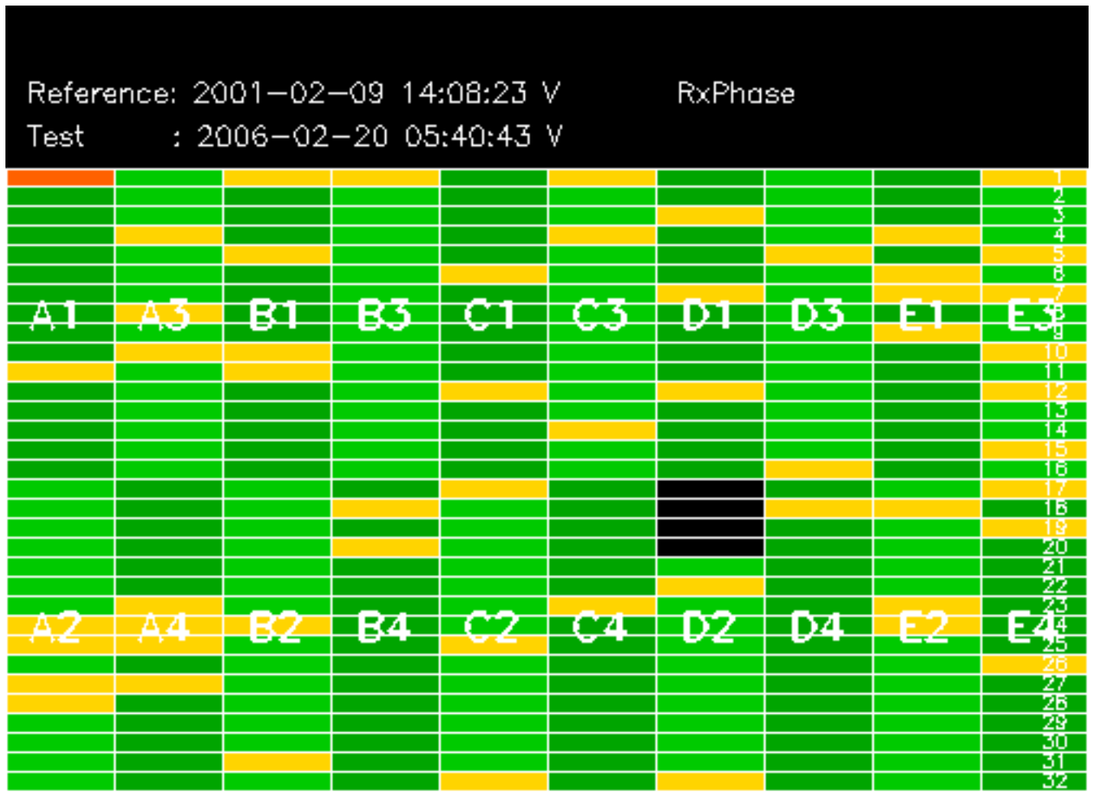
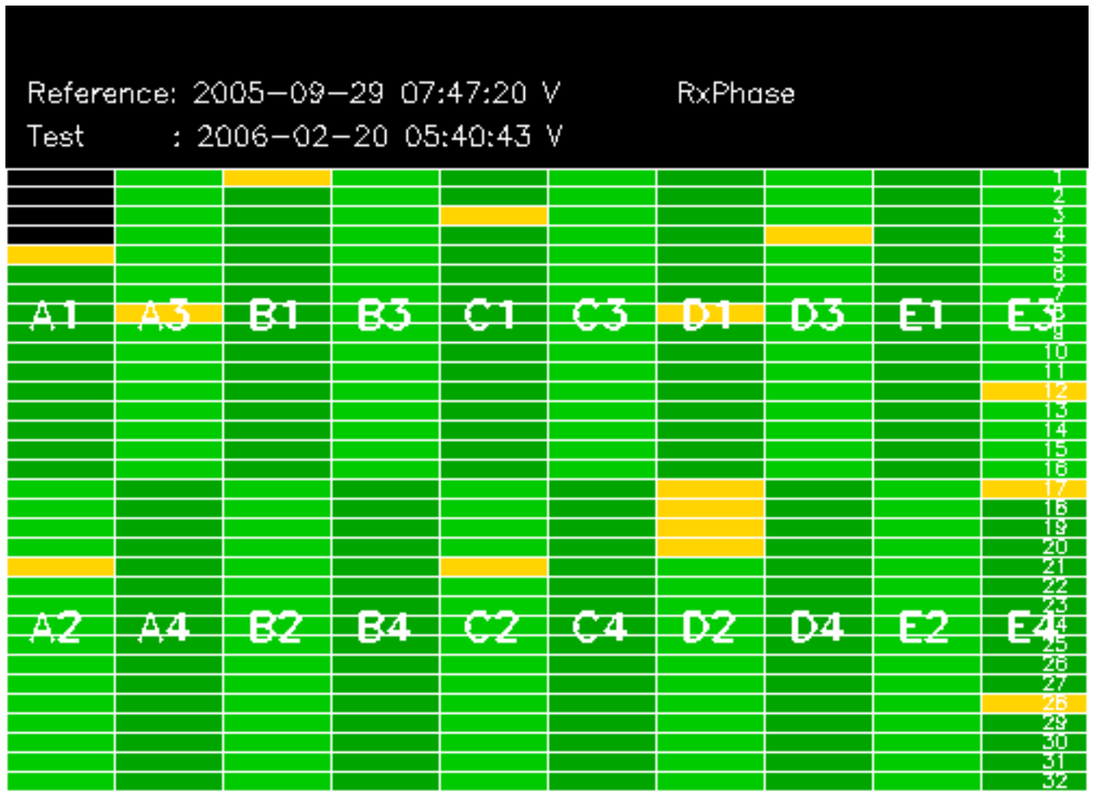

Reference: 2001-02-09 14:08:23 V
Test : 2006-02-20 05:40:43 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-02-20 05:40:43 V
RxPhase
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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4
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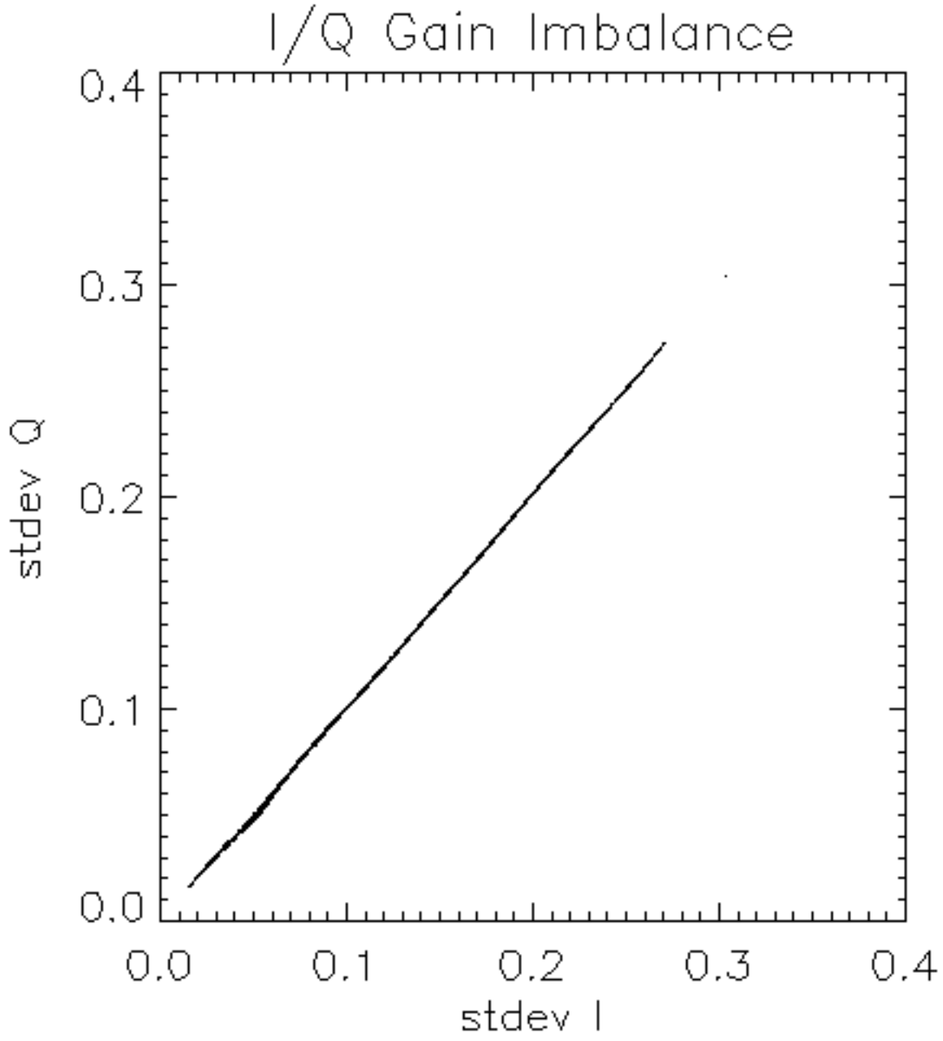
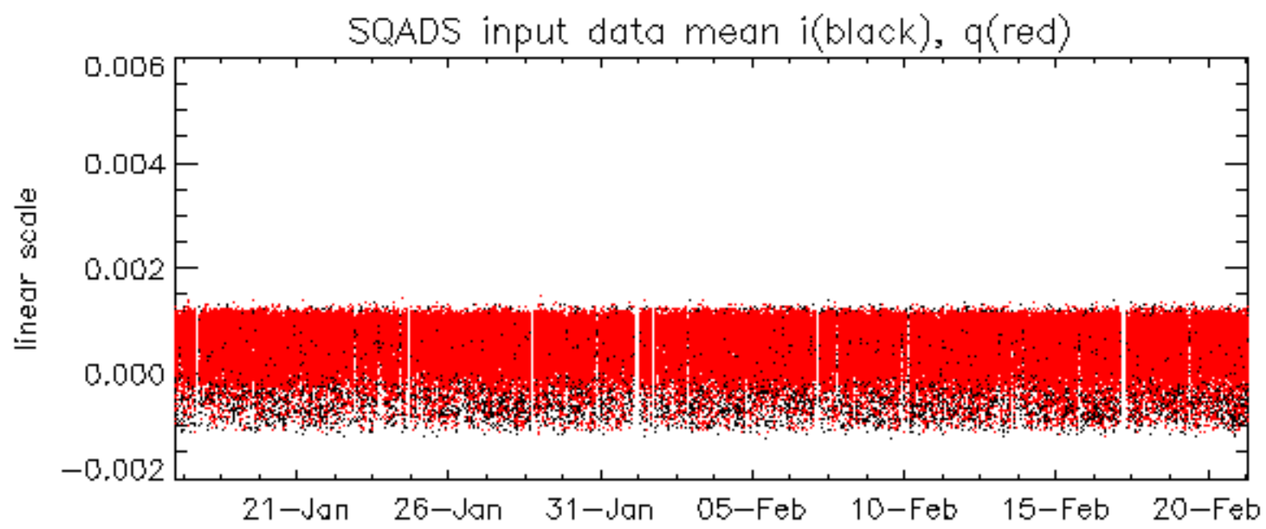
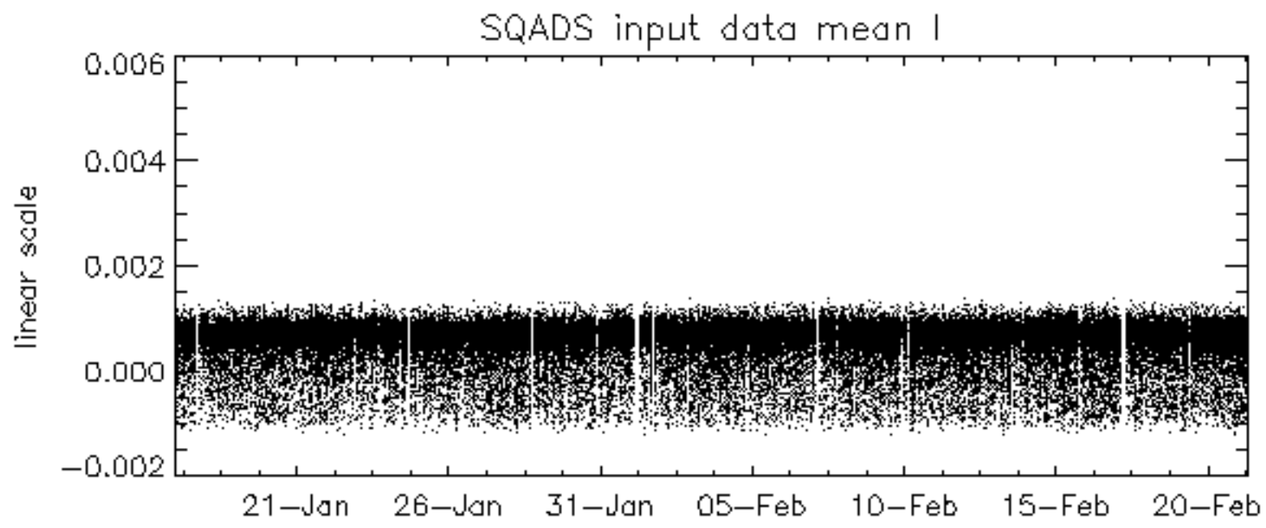
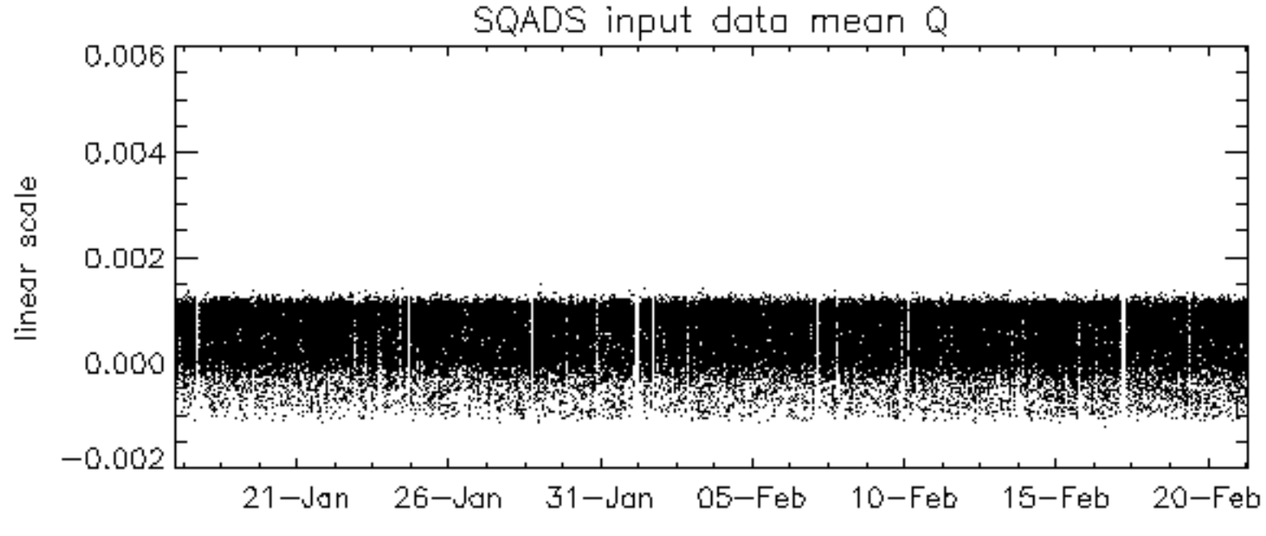
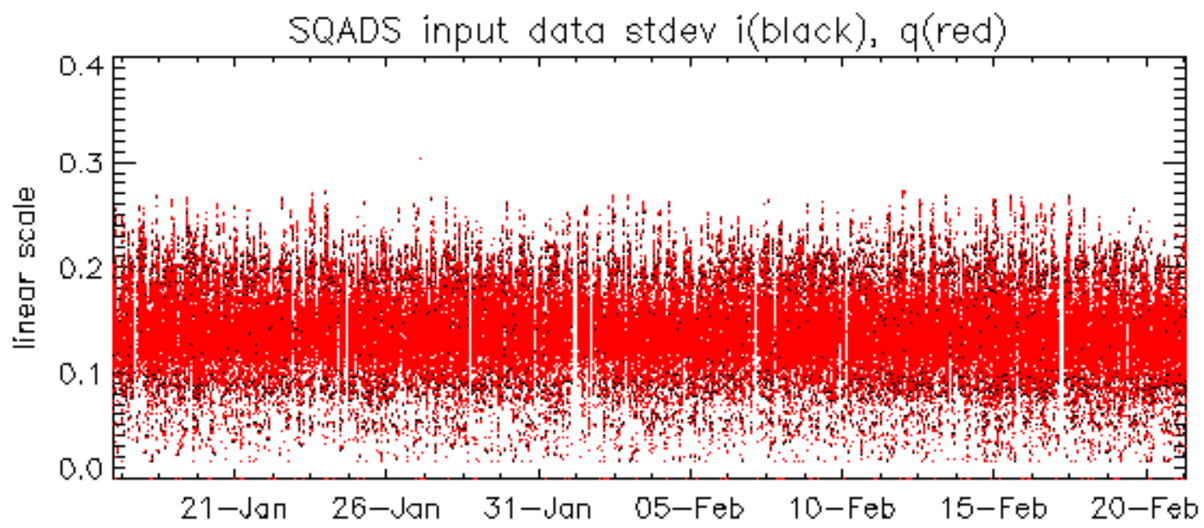
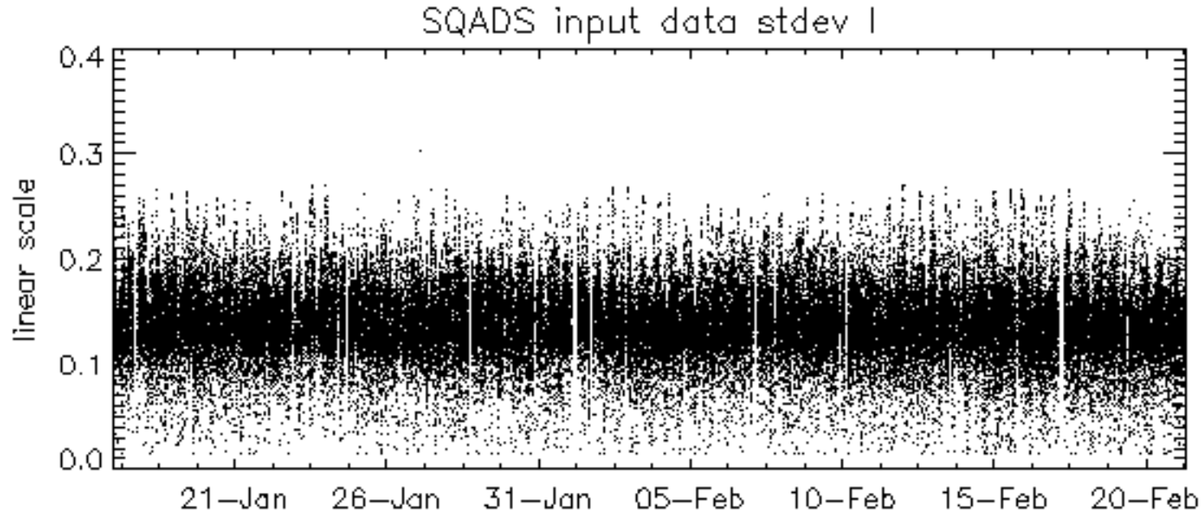

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

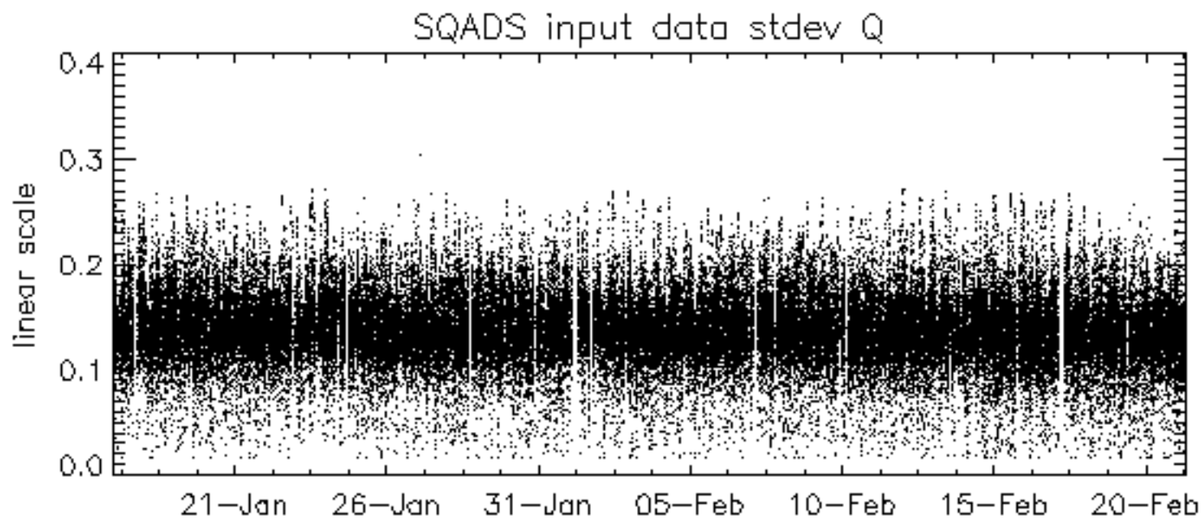

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb

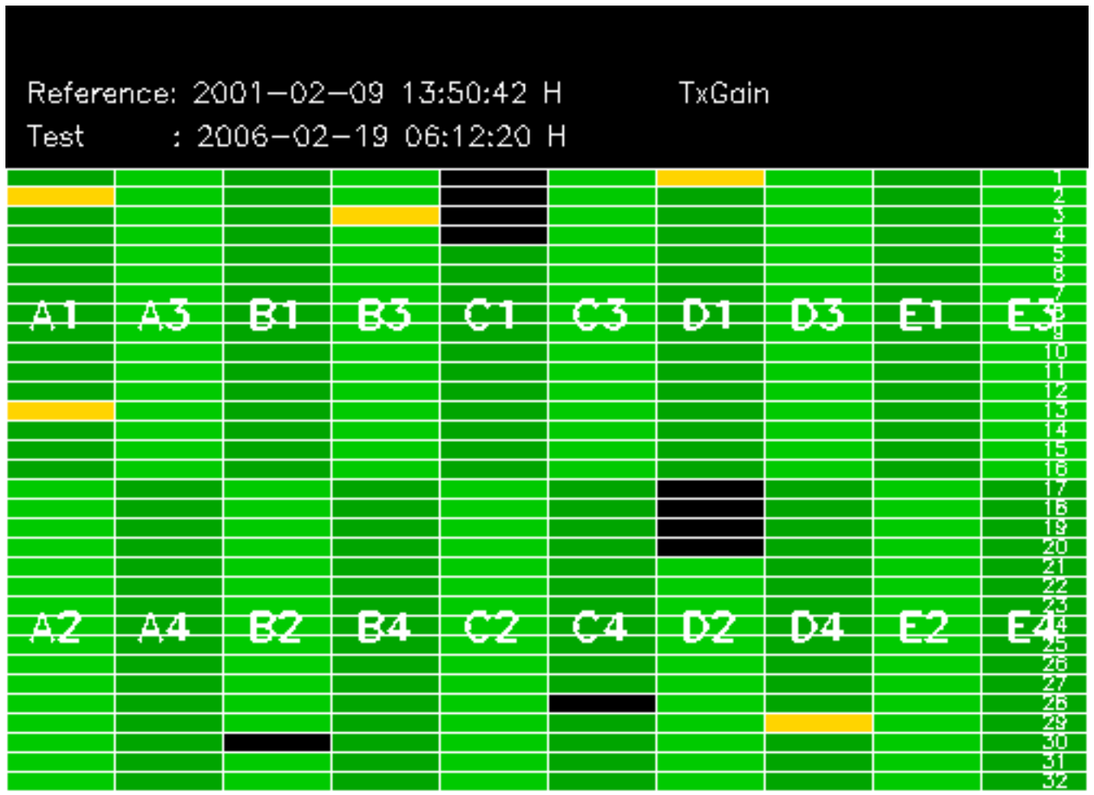

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb

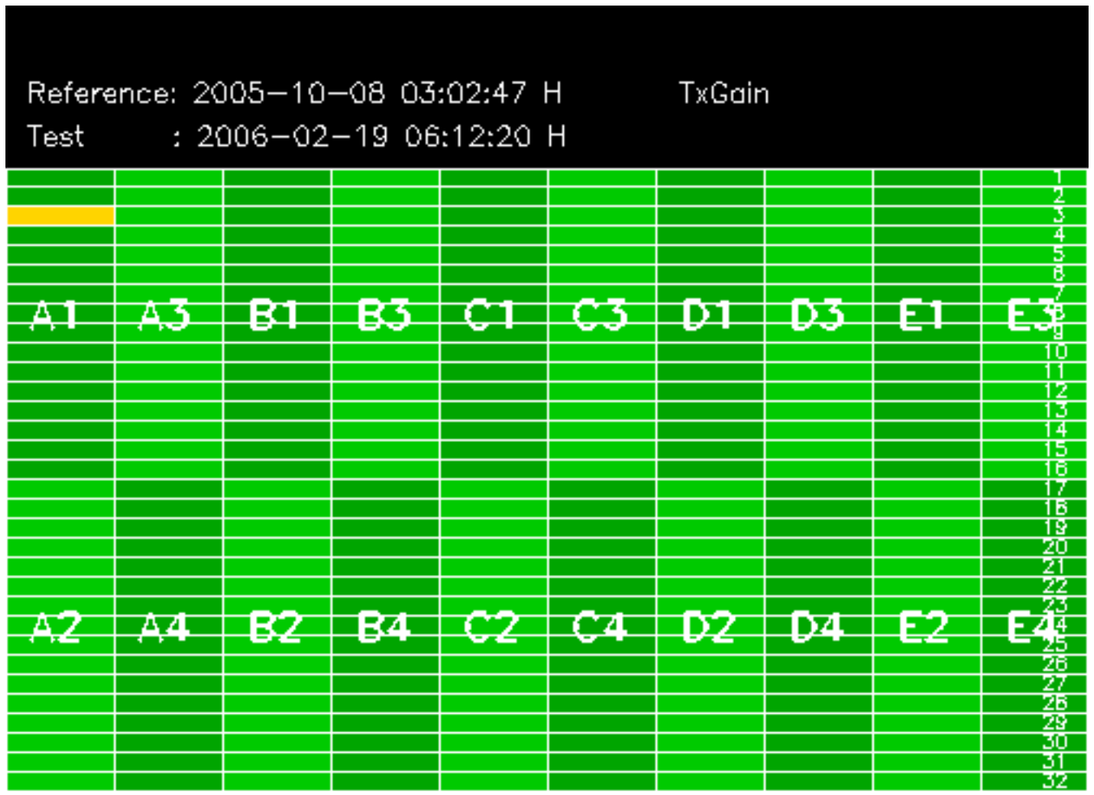

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb


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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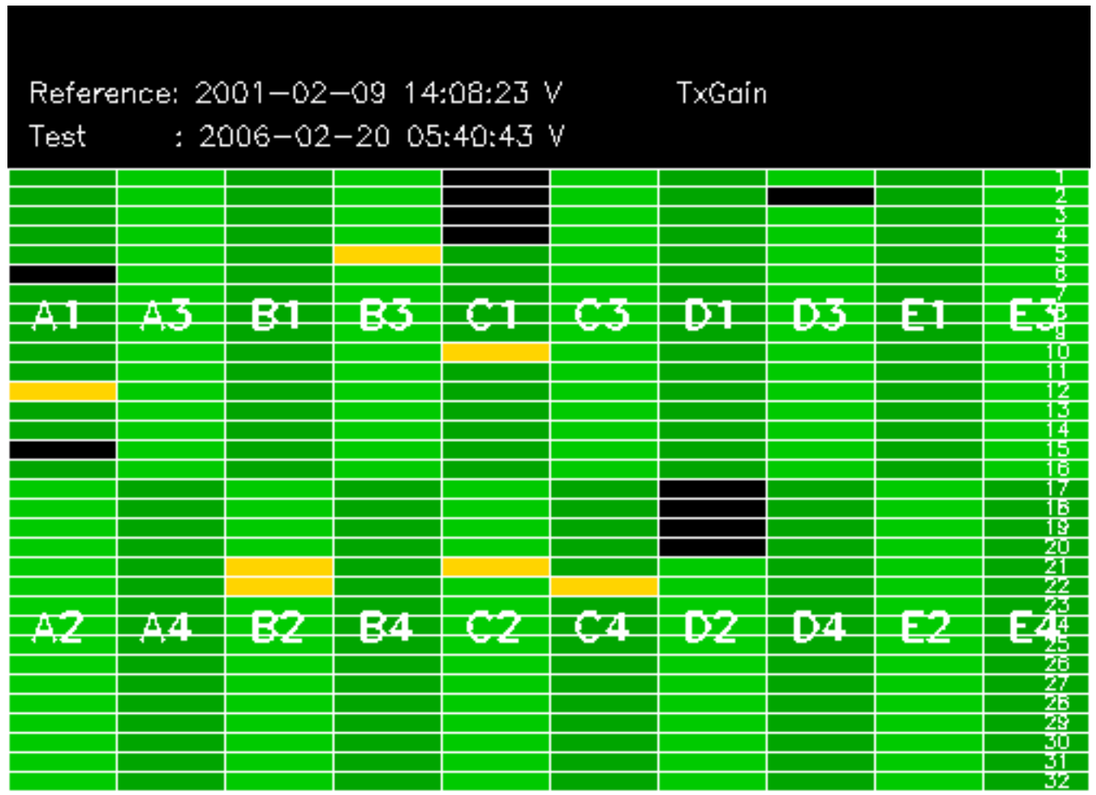
Reference: 2001-02-09 14:08:23 V
Test : 2006-02-20 05:40:43 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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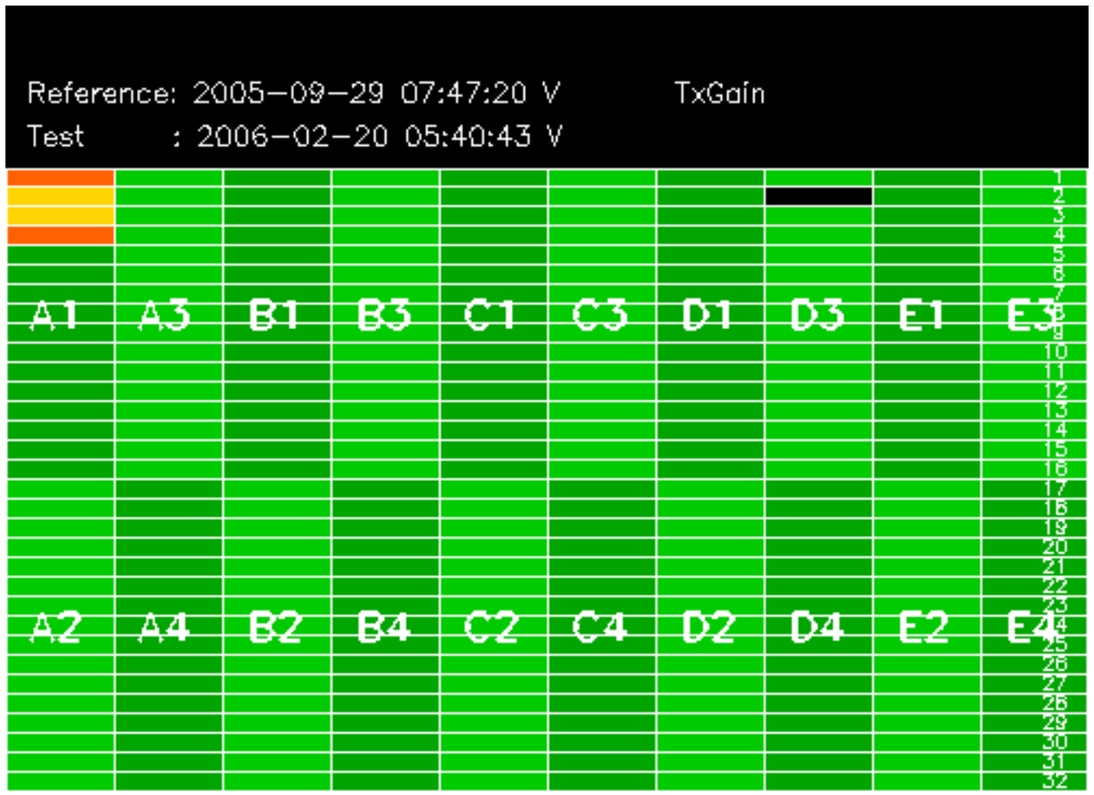
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-20 05:40:43 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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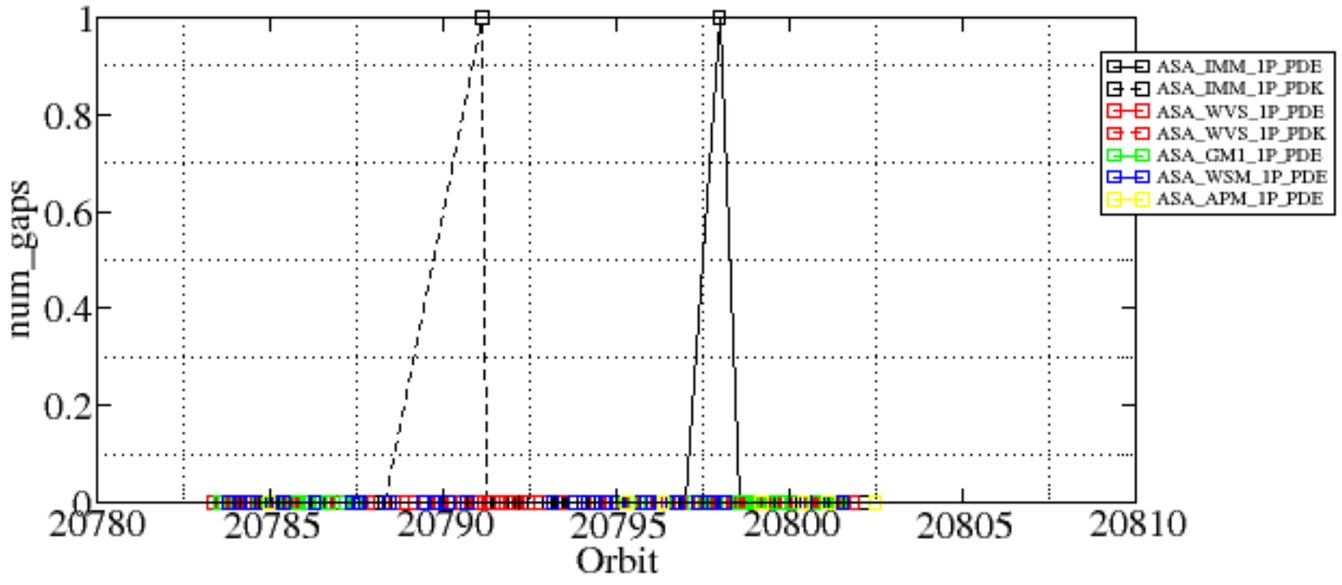
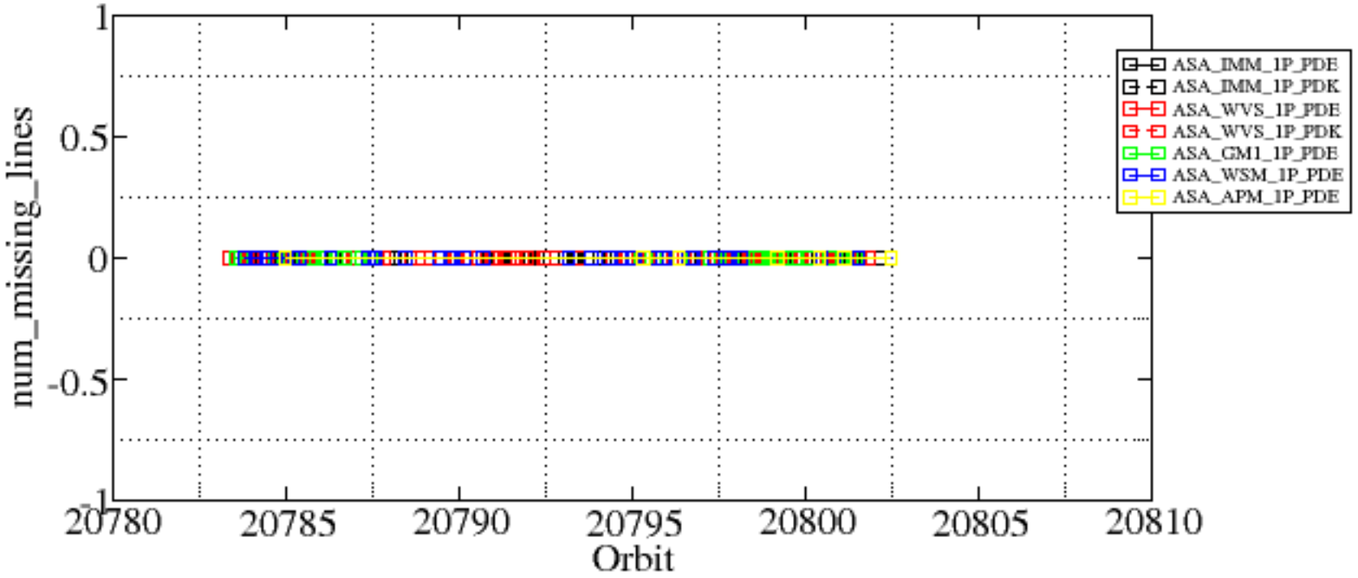
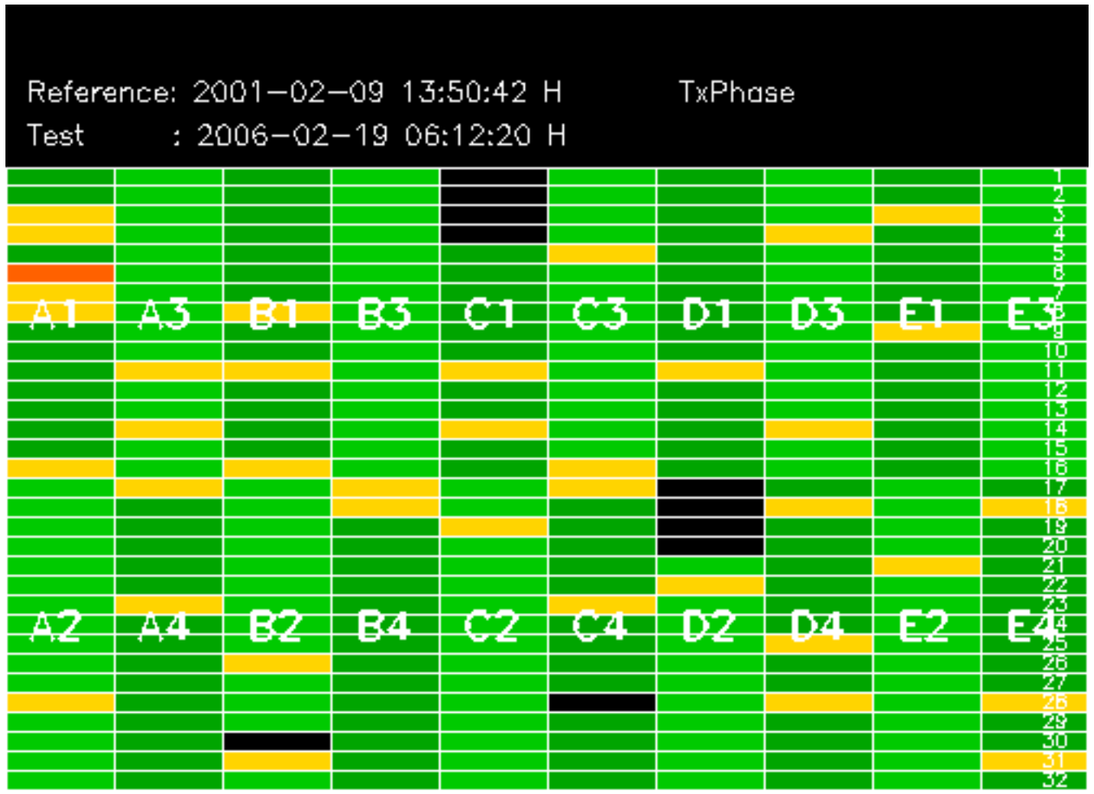
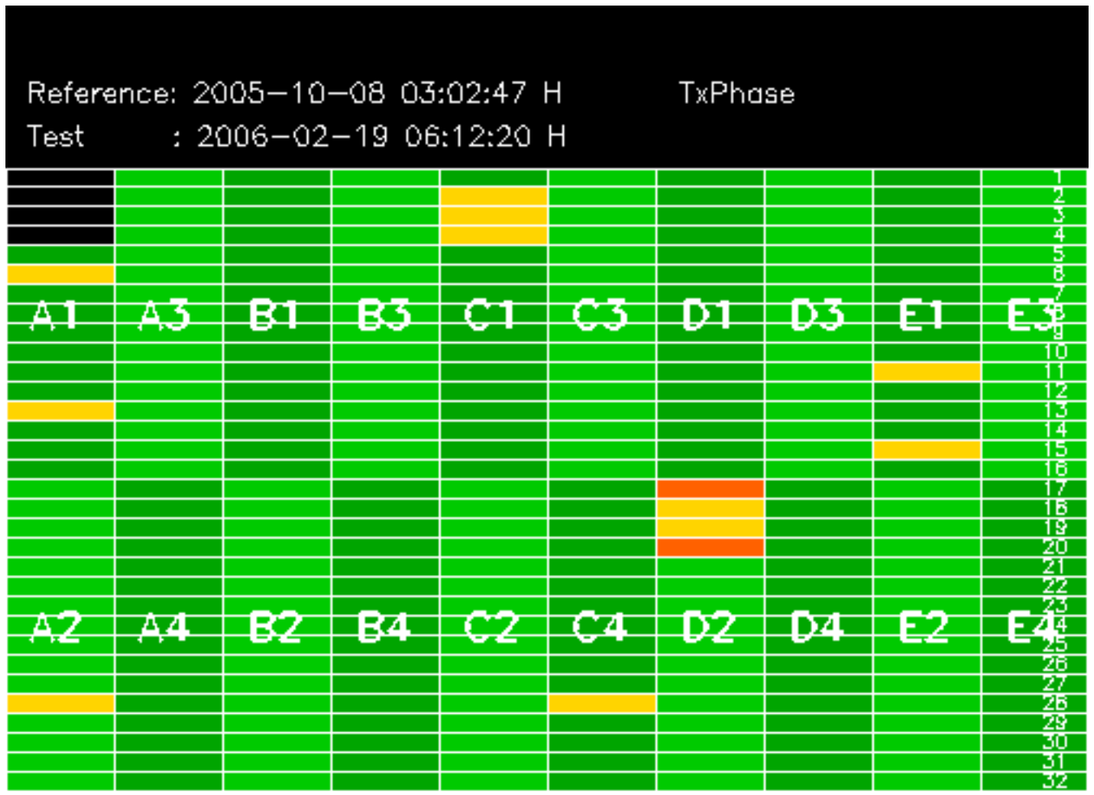
Summary of analysis for the last 3 days 2006022[901]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060221_003709_000001342045_00202_20797_3819.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDK20060220_130809_000001212045_00196_20791_1113.N1 </td> <td>1 </td> <td>0 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
20780
20785
20790
20795
20800
20805
20810
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_APM_1P_PDE


num_missing_lines
1
0.5
0
-0.5
-1
20780
20785
20790
20795
20800
20805
20810
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_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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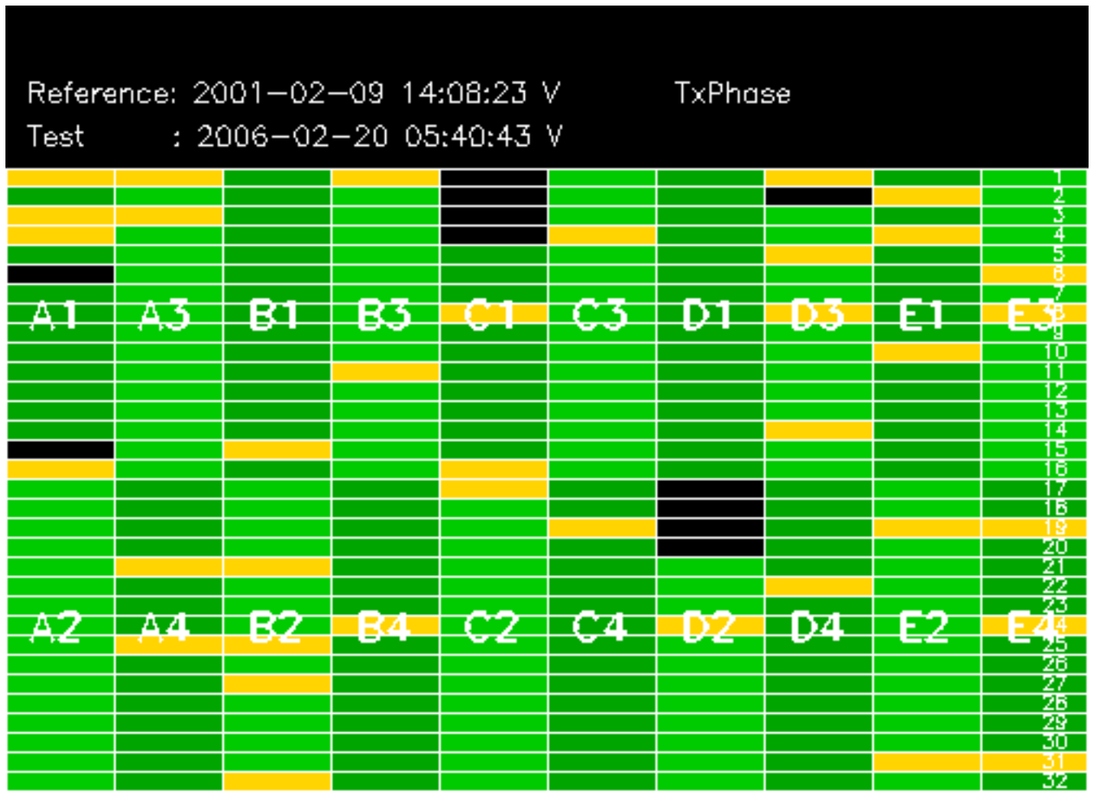
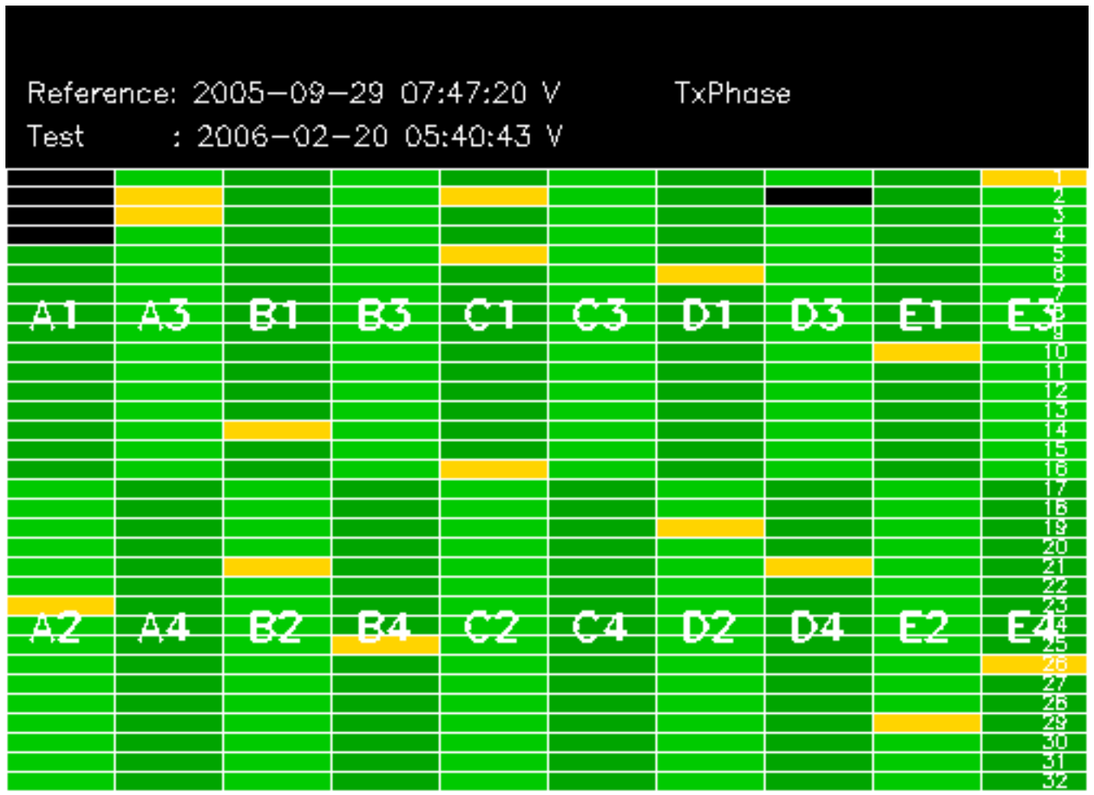

Reference: 2001-02-09 14:08:23 V
Test : 2006-02-20 05:40:43 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-02-20 05:40:43 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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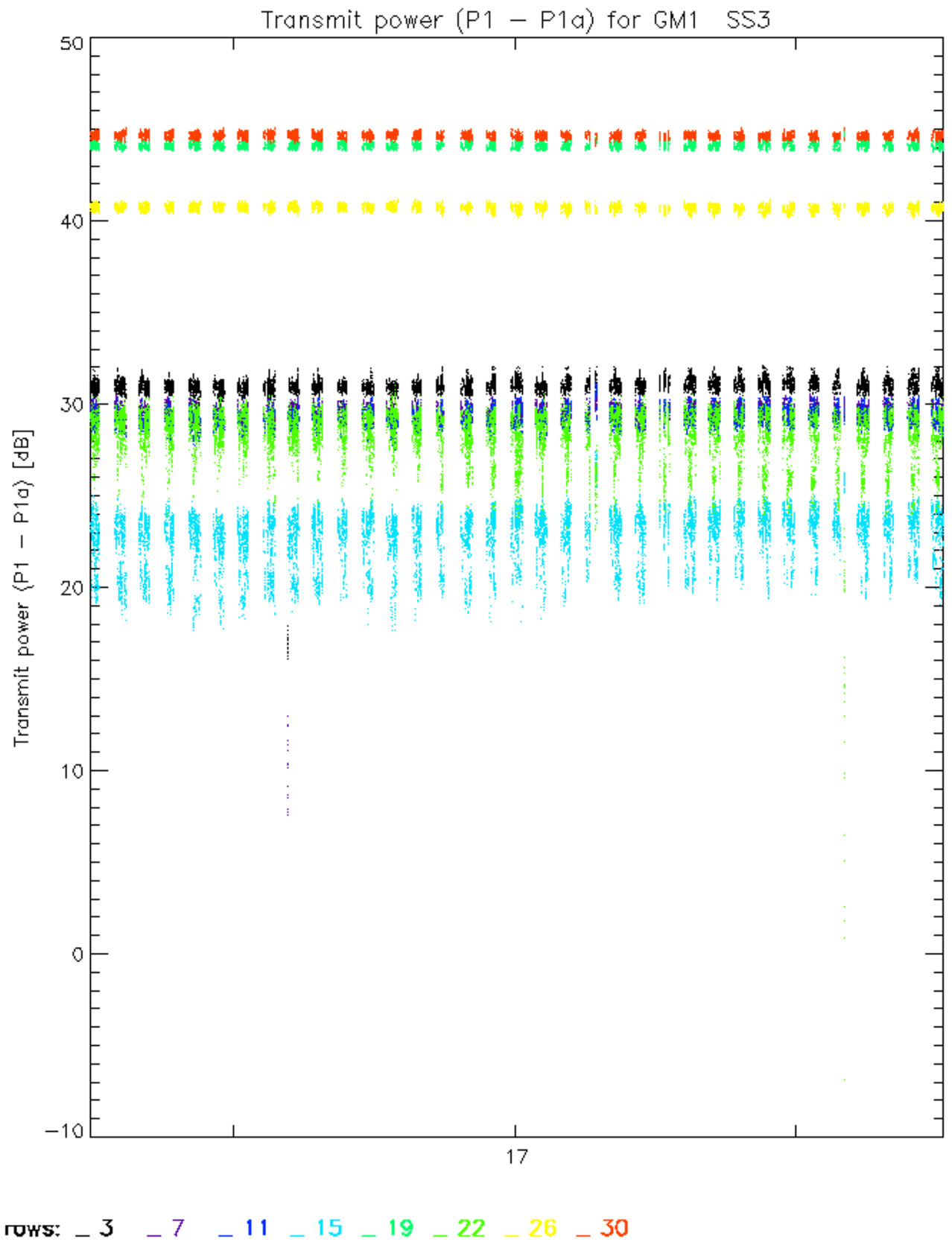
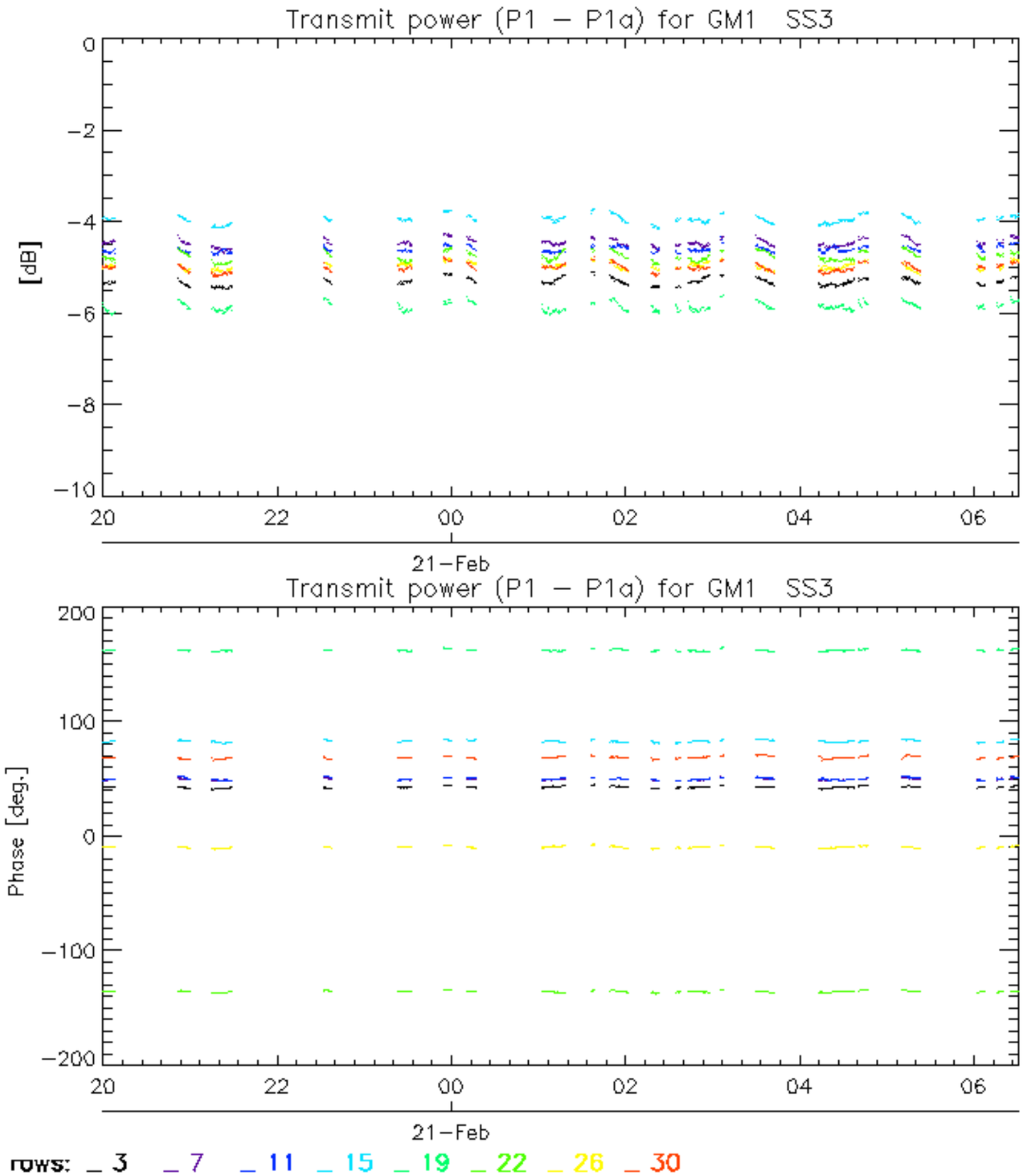
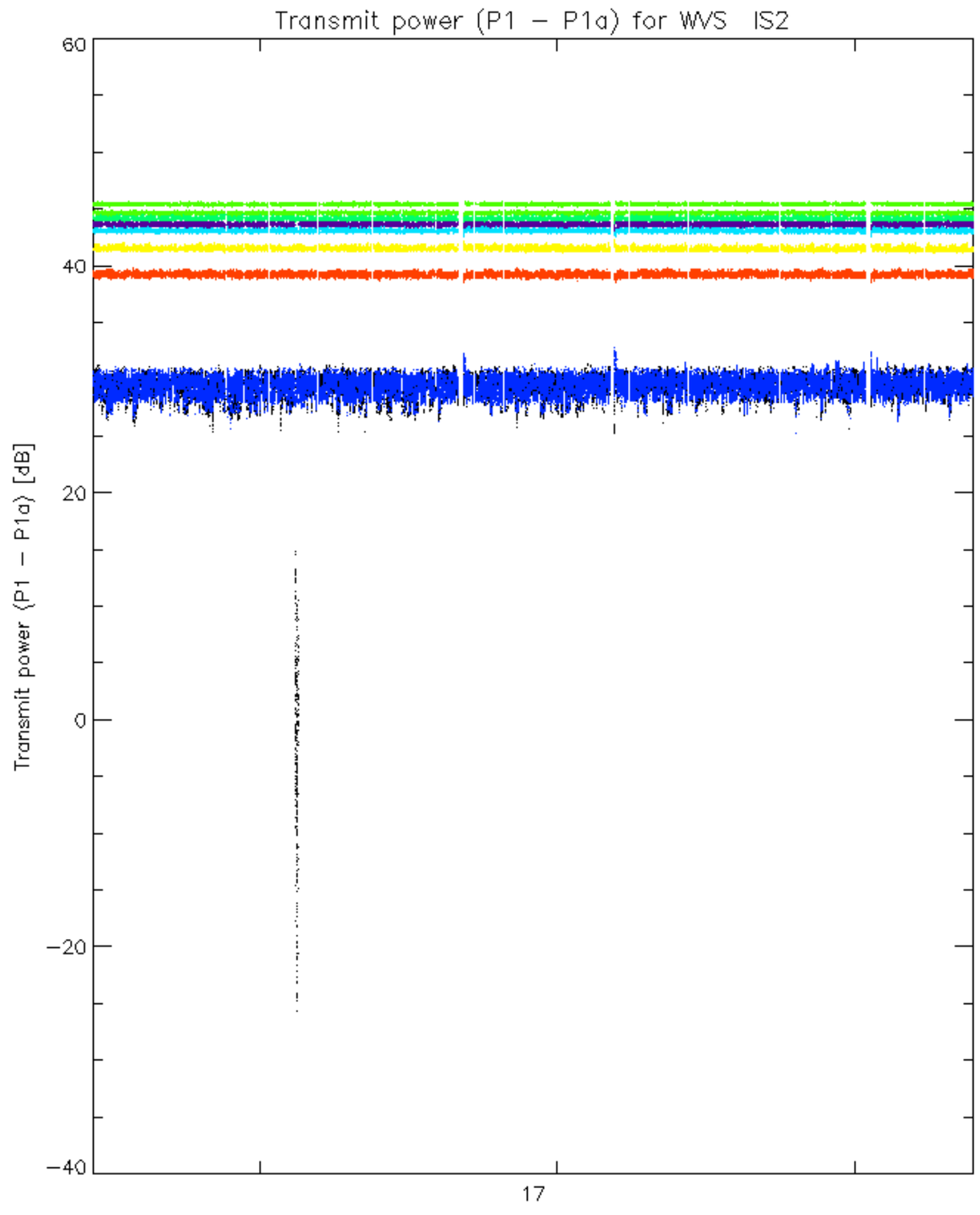
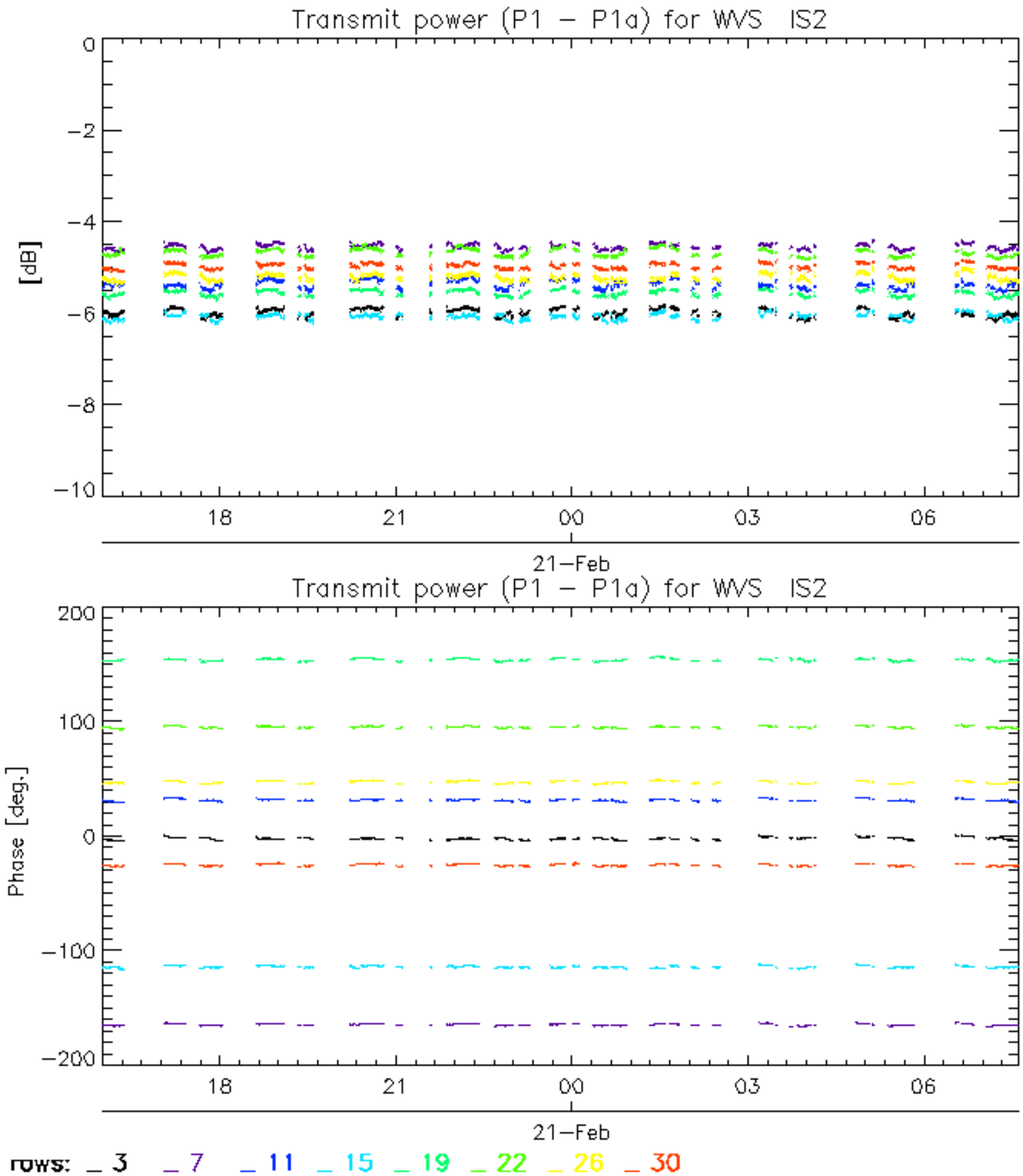

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
17
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
20
22
00
02
04
06
21−Feb
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
20
22
00
02
04
06
21−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
17
rows: 3 7 11 15 19 22 26 30


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

No unavailabilities during the reported period.