PRELIMINARY REPORT OF 060223

last update on Thu Feb 23 16:49:49 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 2006-02-22 00:00:00 to 2006-02-23 16:49:49

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

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	46	72	10	0	12
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	46	72	10	0	12
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	46	72	10	0	12
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	46	72	10	0	12

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	47	43	40	12	46
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	47	43	40	12	46
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	47	43	40	12	46
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	47	43	40	12	46

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	20060222 043729
H	20060221 050906

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	-4.005124	0.009070	0.018885
7	P1	-3.001940	0.011454	0.023209
11	P1	-4.085341	0.022305	0.036389
15	P1	-6.062435	0.020089	0.002271
19	P1	-3.266852	0.006660	-0.028803
22	P1	-4.465787	0.016821	0.043965
26	P1	-4.217056	0.102052	-0.152649
30	P1	-5.772223	0.010334	0.005463
3	P1	-16.929054	0.261184	-0.190154
7	P1	-16.668823	0.114802	-0.025551
11	P1	-16.572607	0.329715	0.120095
15	P1	-13.123601	0.110015	0.238983
19	P1	-13.899014	0.064015	-0.004262
22	P1	-15.700468	0.525452	0.447150
26	P1	-15.734218	0.321333	0.102659
30	P1	-16.541189	0.283843	0.207170

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.495531	0.090541	0.205003
7	P2	-22.415823	0.094379	0.051313
11	P2	-16.252705	0.099721	0.039757
15	P2	-7.181341	0.100968	0.058647
19	P2	-9.149133	0.094453	0.053935
22	P2	-17.936905	0.091699	0.046857
26	P2	-16.210579	0.097707	0.027852
30	P2	-19.638096	0.084430	0.019681

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.197443	0.007025	0.023322
7	P3	-8.197443	0.007025	0.023322
11	P3	-8.197443	0.007025	0.023322
15	P3	-8.197443	0.007025	0.023322
19	P3	-8.197443	0.007025	0.023322
22	P3	-8.197443	0.007025	0.023322
26	P3	-8.197443	0.007025	0.023322
30	P3	-8.197443	0.007025	0.023322

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	-3.872316	4.700036	-0.612706
7	P1	-2.883317	4.925831	-0.652291
11	P1	-3.047822	4.956979	-0.728882
15	P1	-3.682963	4.914613	-0.819781
19	P1	-3.507692	4.769377	-0.558725
22	P1	-5.283526	4.376451	-0.614217
26	P1	-6.047883	4.629055	-0.900389
30	P1	-5.335559	4.334846	-0.486508
3	P1	-11.663748	3.080621	-0.550961
7	P1	-10.053625	3.401777	-0.570174
11	P1	-10.295717	3.395941	-0.681503
15	P1	-10.840252	3.378531	-0.741862
19	P1	-15.509698	2.476058	-0.217378
22	P1	-20.408106	2.990506	0.019965

26	P1	-16.478321	3.120457	0.480626
30	P1	-18.317793	2.212234	-0.453538

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.238647	3.200312	0.323496
7	P2	-22.624863	3.683793	0.567782
11	P2	-11.372351	3.498538	-0.054566
15	P2	-4.980483	4.567457	-0.445474
19	P2	-6.985880	4.110197	-0.413563
22	P2	-8.261123	3.857249	-0.343063
26	P2	-23.867455	3.768644	0.409881
30	P2	-22.022602	3.575054	0.300906

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.031102	0.002965	0.023463
7	P3	-8.031068	0.002964	0.023531
11	P3	-8.031061	0.002963	0.023597
15	P3	-8.031104	0.002963	0.023426
19	P3	-8.031136	0.002967	0.023670
22	P3	-8.031089	0.002969	0.023853
26	P3	-8.031241	0.002967	0.023659
30	P3	-8.031041	0.002972	0.023307

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	0.000556188
	stdev	1.72118e-07
MEAN Q	mean	0.000521829
	stdev	2.15195e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.138503
	stdev	0.00115174
STDEV Q	mean	0.138855
	stdev	0.00117001

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006022[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
ASA_IMM_1PNPDE20060221_003709_000001342045_00202_20797_3819.N1	1	0
ASA_GM1_1PNPDK20060221_115852_000004282045_00209_20804_2149.N1	0	30
ASA_GM1_1PNPDK20060222_084957_000006702045_00222_20817_2189.N1	0	15
ASA_WSM_1PNPDE20060221_112842_000001842045_00209_20804_5812.N1	0	30
ASA_WSM_1PNPDE20060223_020555_000001282045_00232_20827_6045.N1	0	49

ASA_WSM_1PNPDE20060223_033632_000001462045_00233_20828_6056.N1	0	1

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

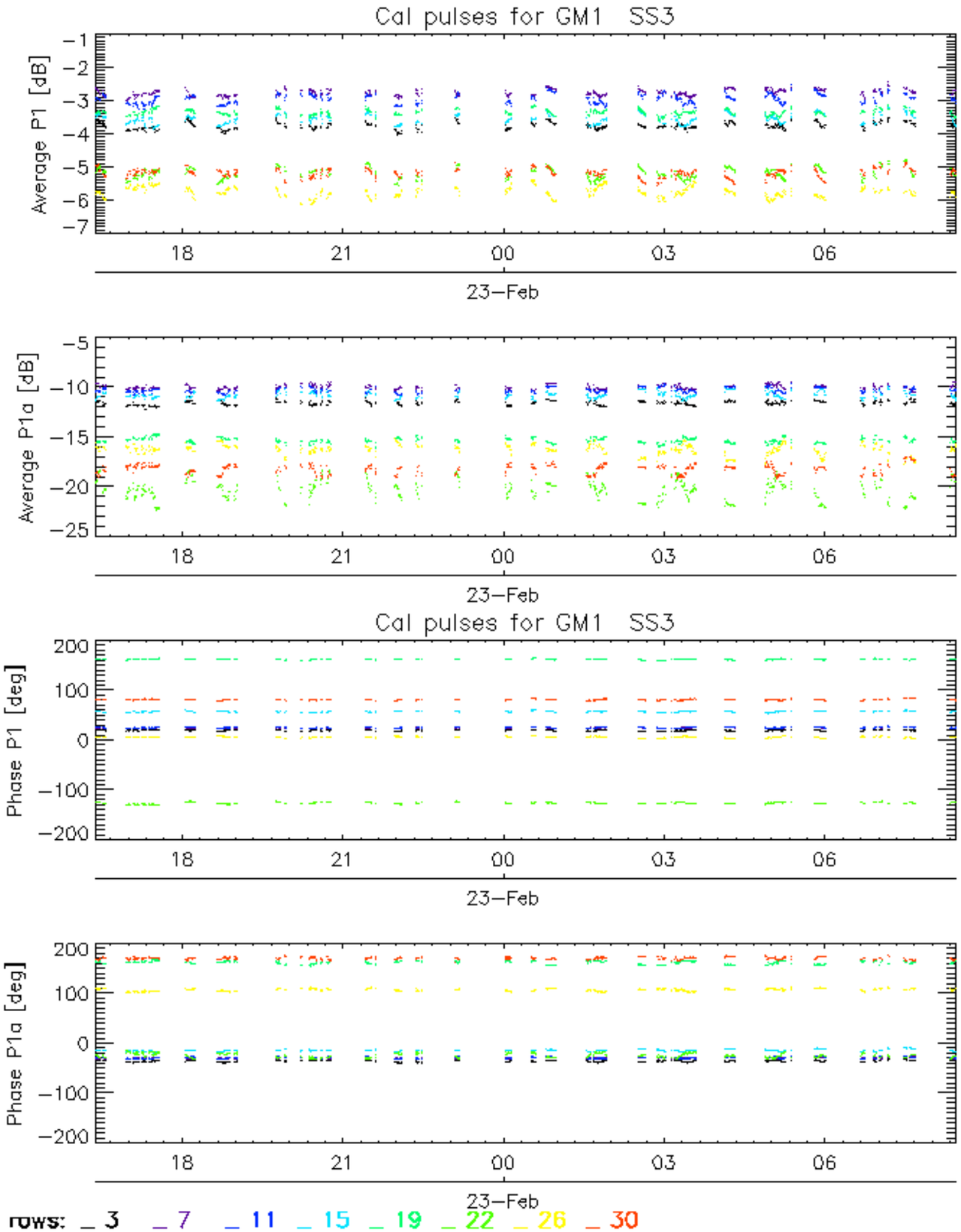
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

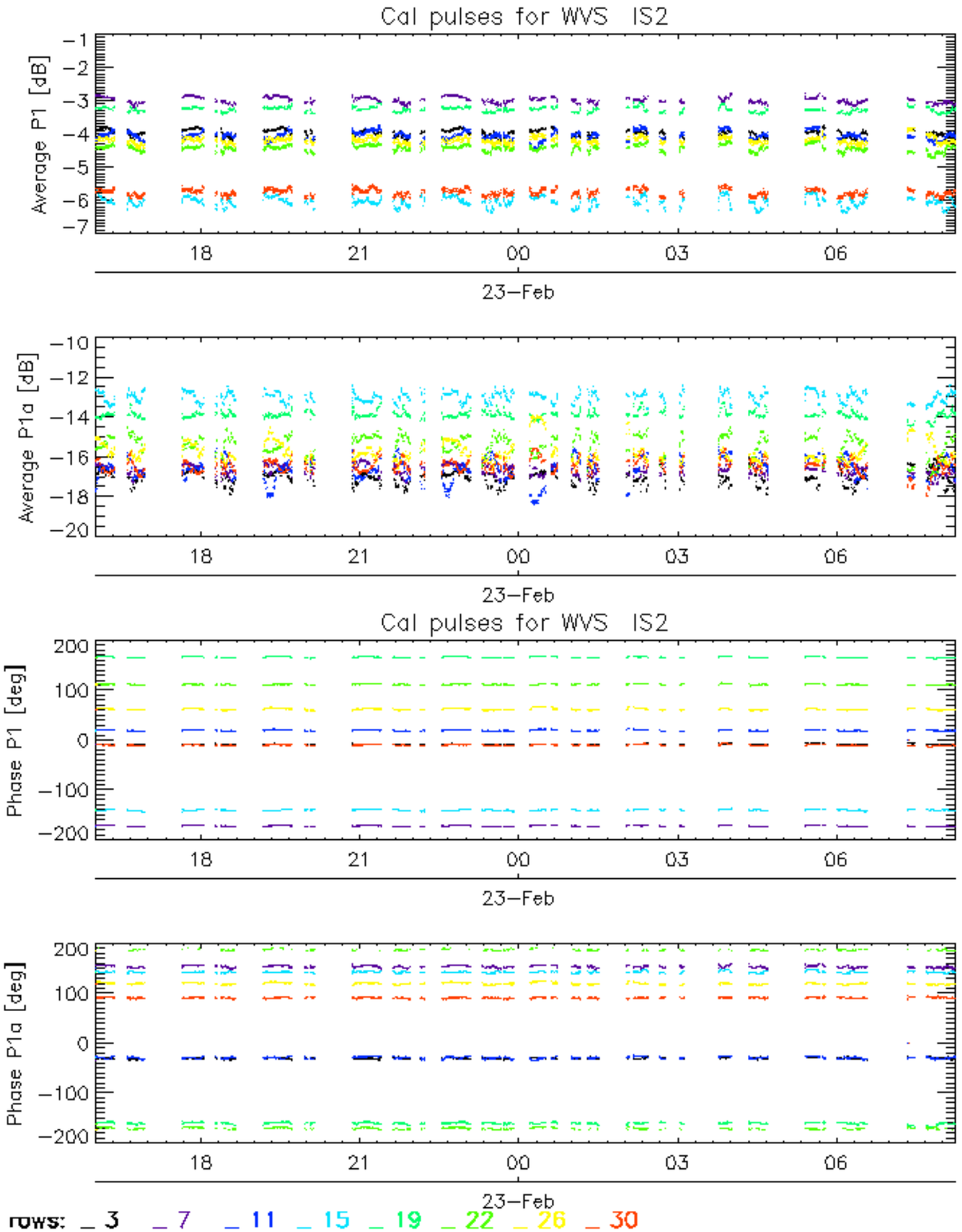
7.5 - Absolute Doppler for GM1

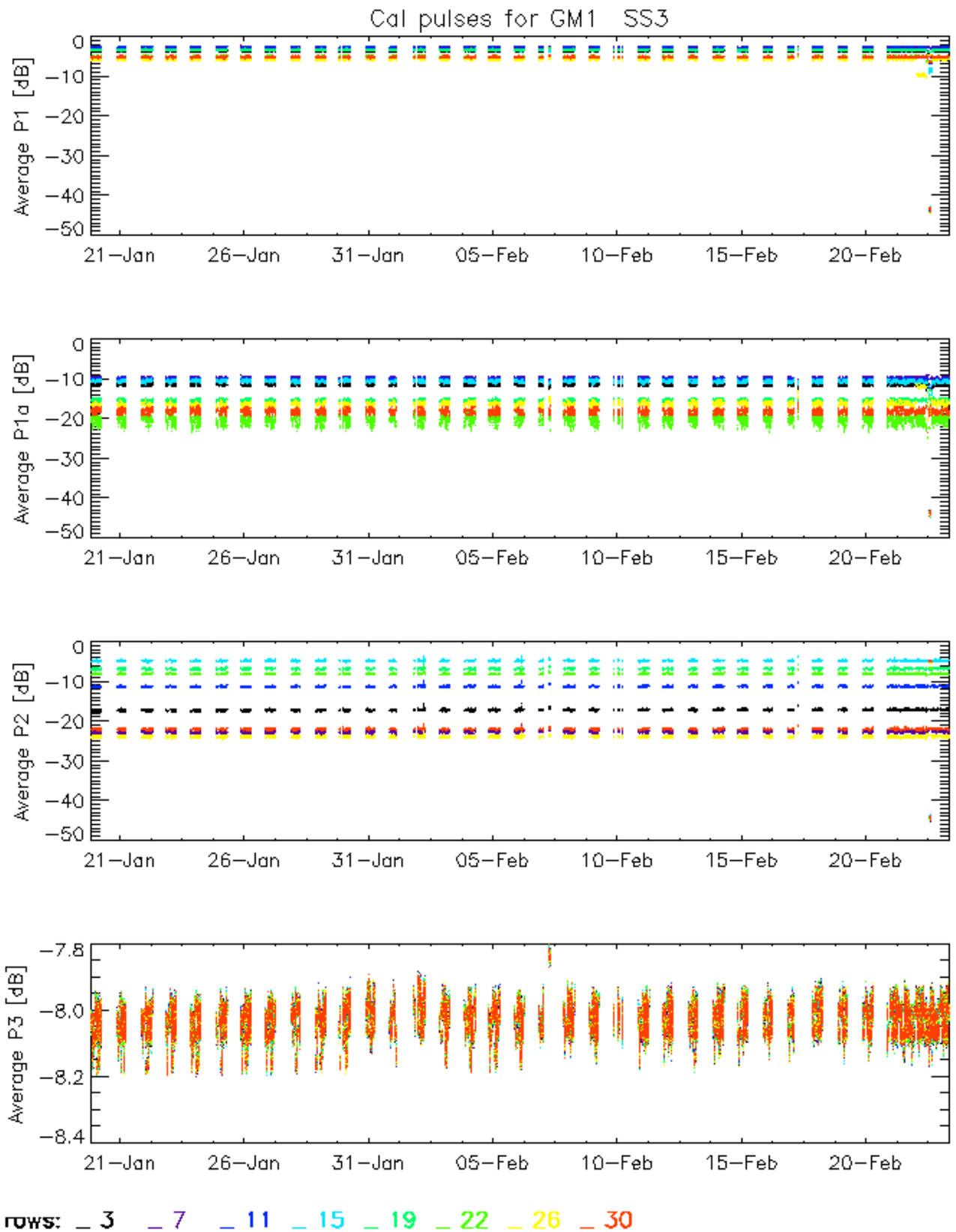
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

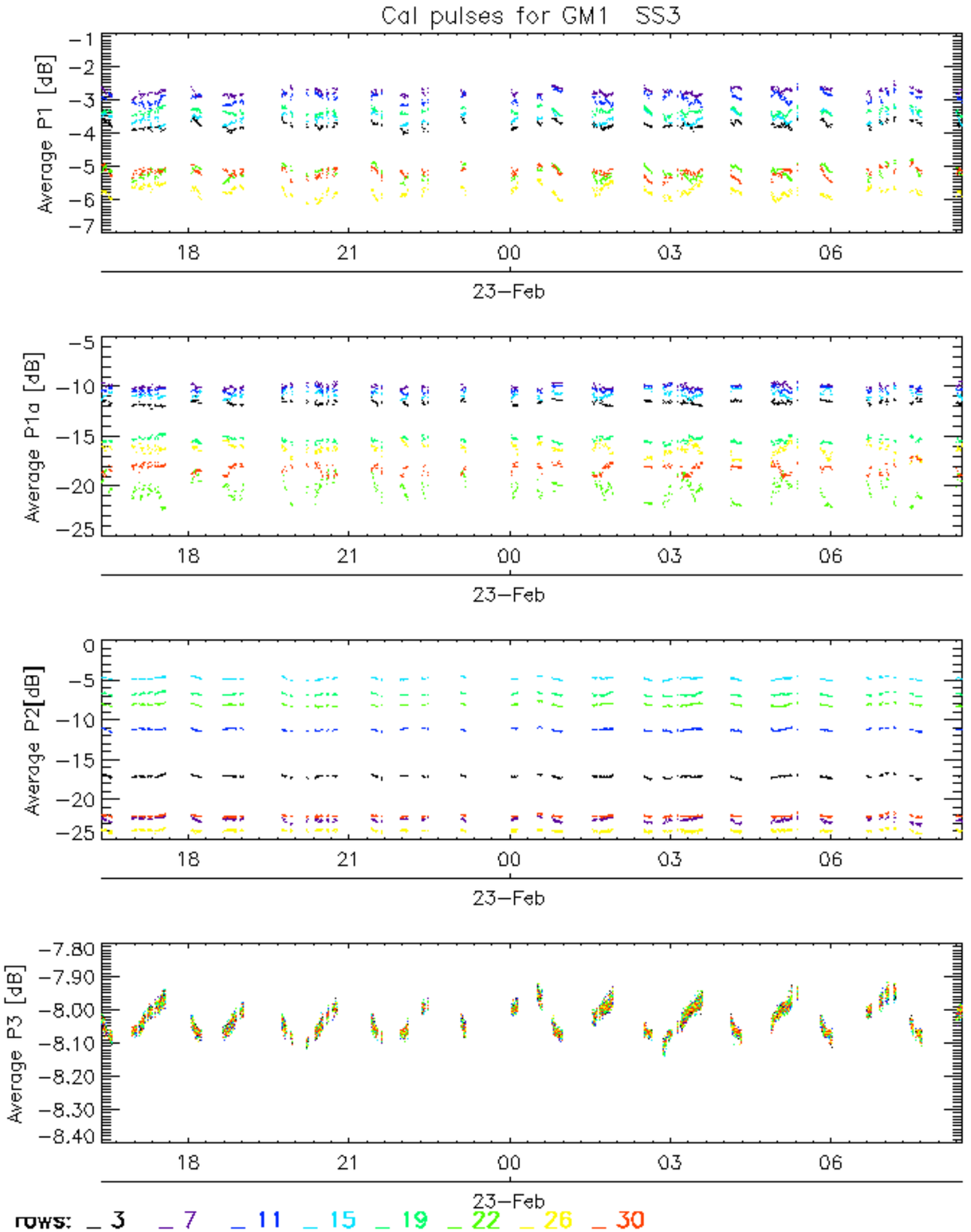
7.6 - Doppler evolution versus ANX for GM1

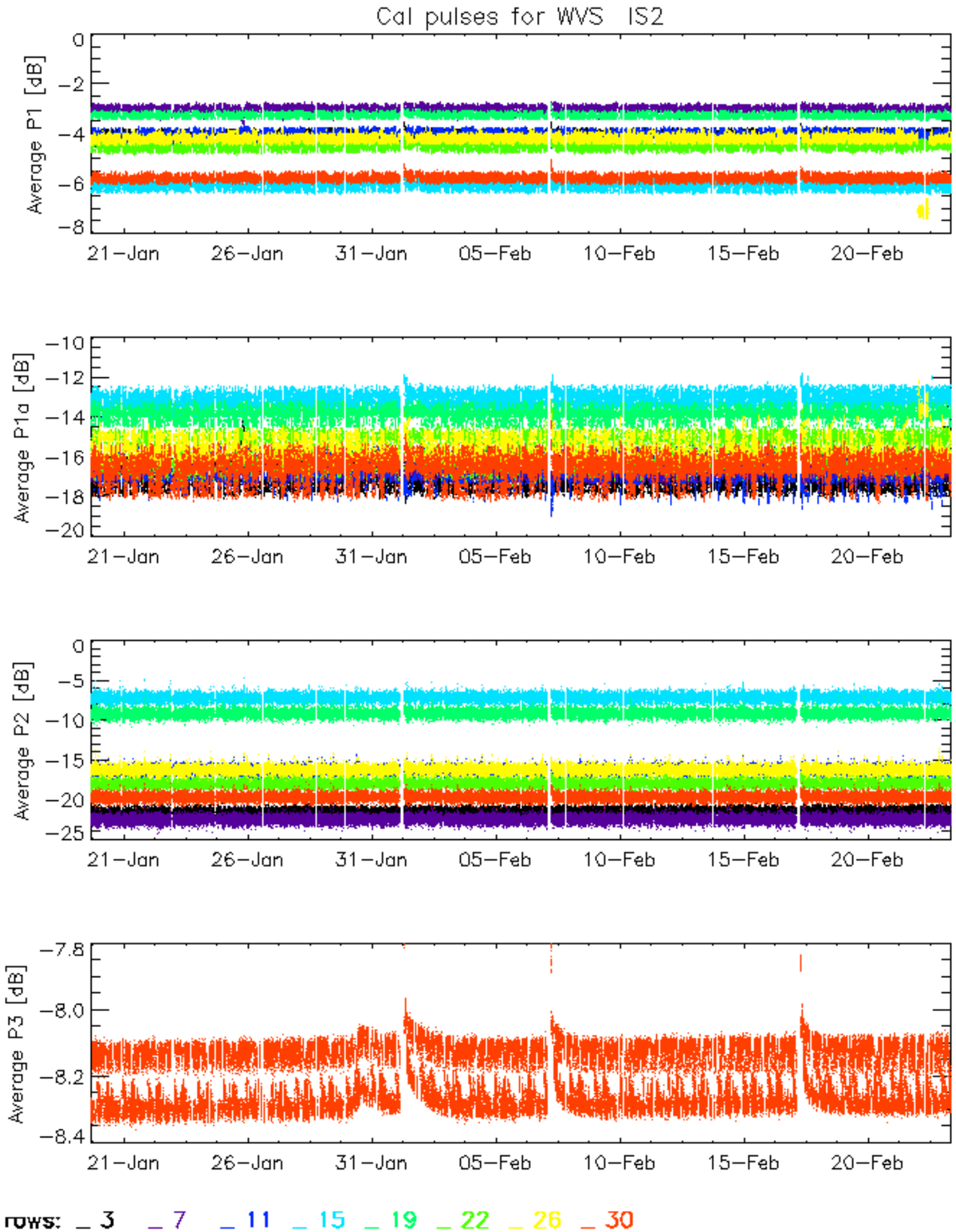
Evolution Doppler error versus ANX
☒

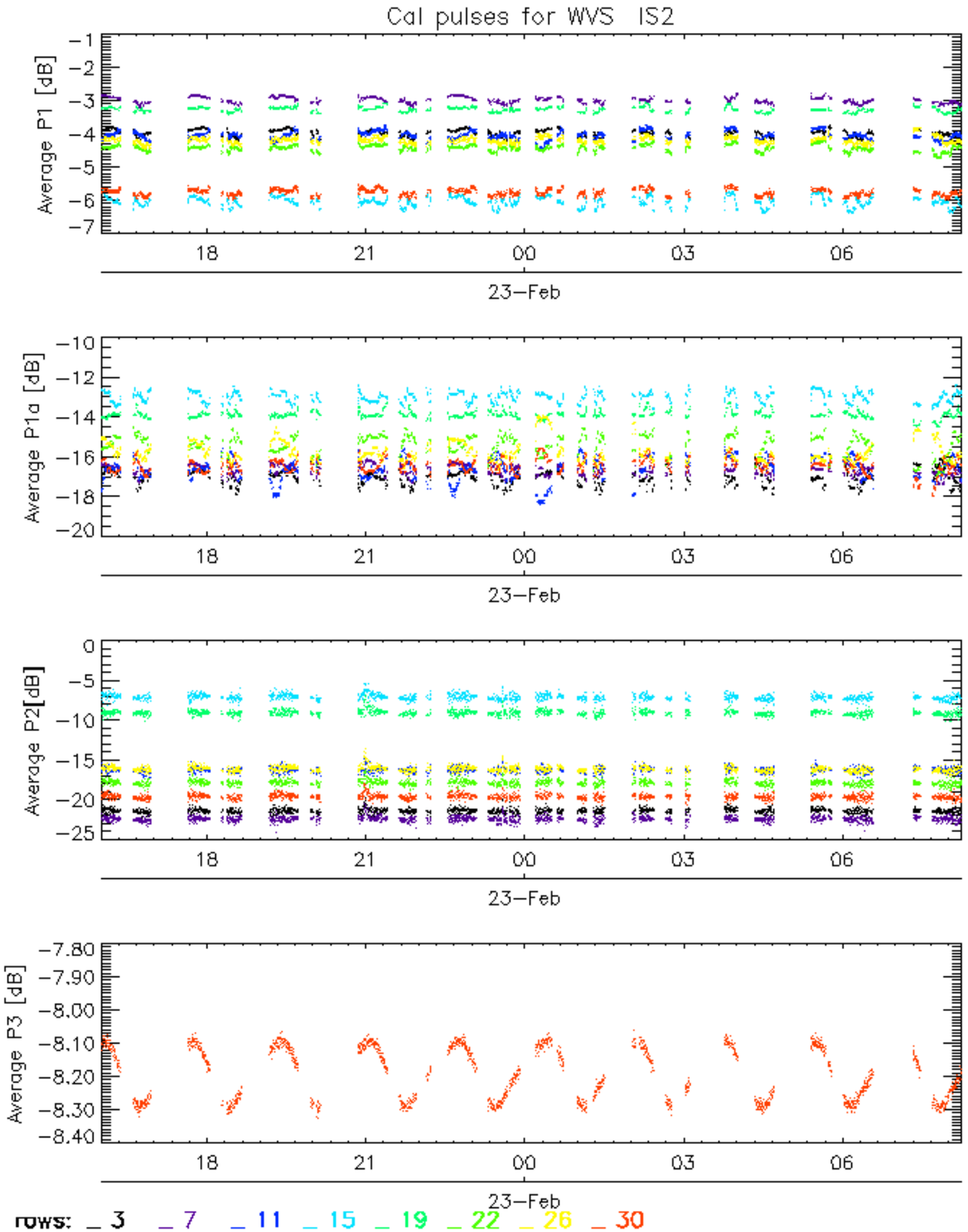

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
23−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
23−Feb
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
23−Feb
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
23−Feb
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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


Cal pulses for GM1 SS3
Average P1 [dB]
0
−10
−20
−30
−40
−50
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb
Average P1a [dB]
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

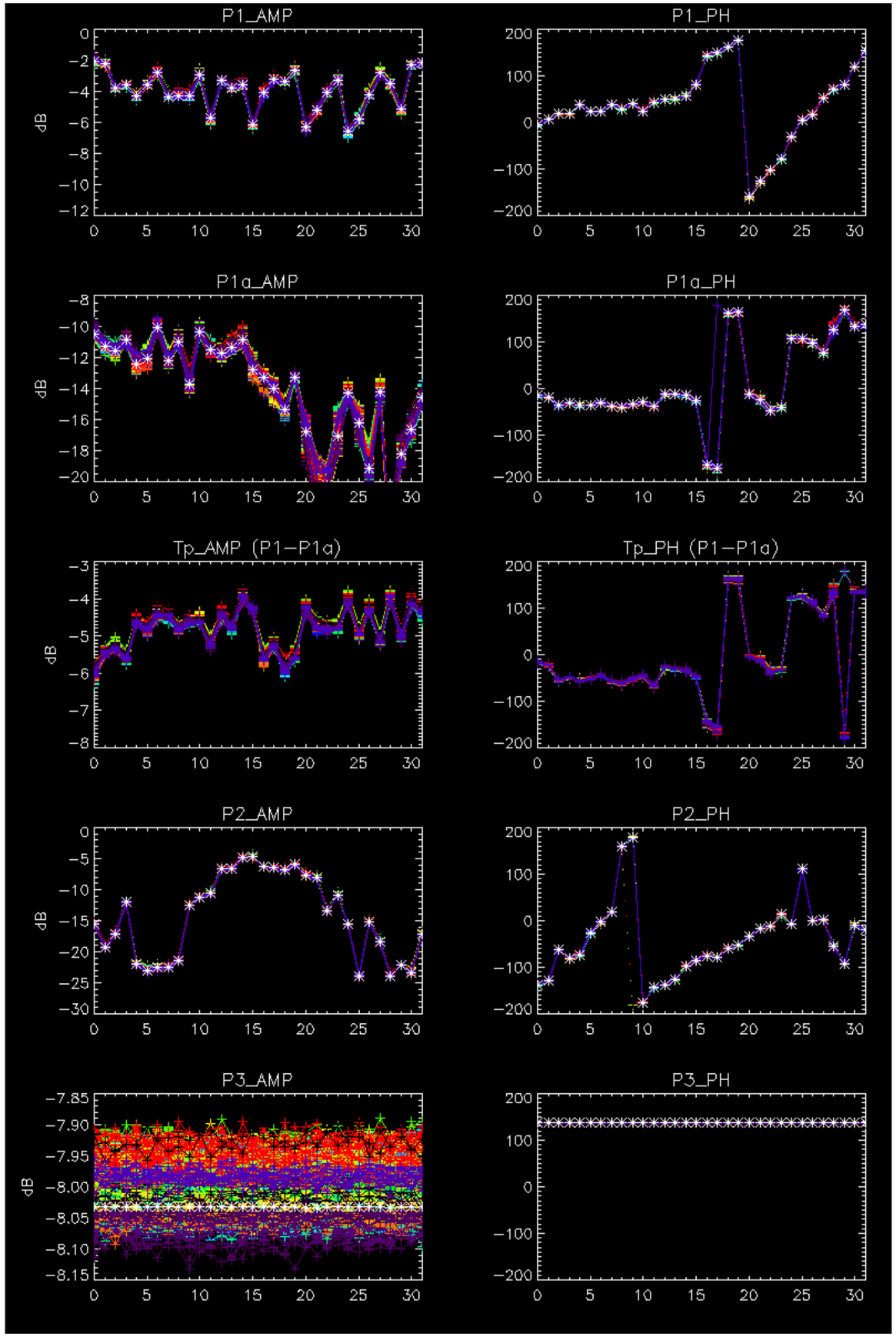

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
23−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
23−Feb
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
23−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
23−Feb
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

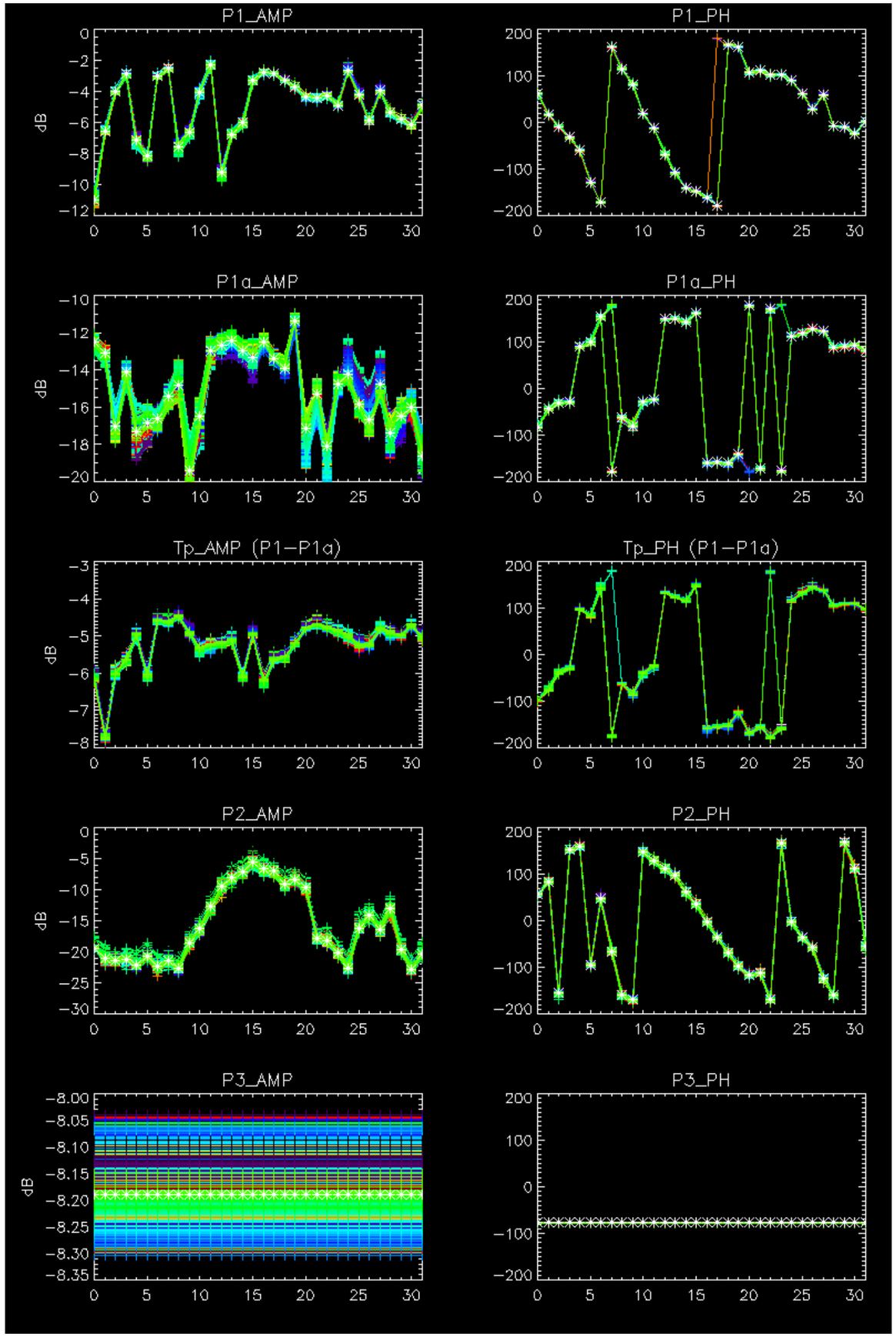

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
21−Jan
26−Jan
31−Jan
05−Feb
10−Feb
15−Feb
20−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

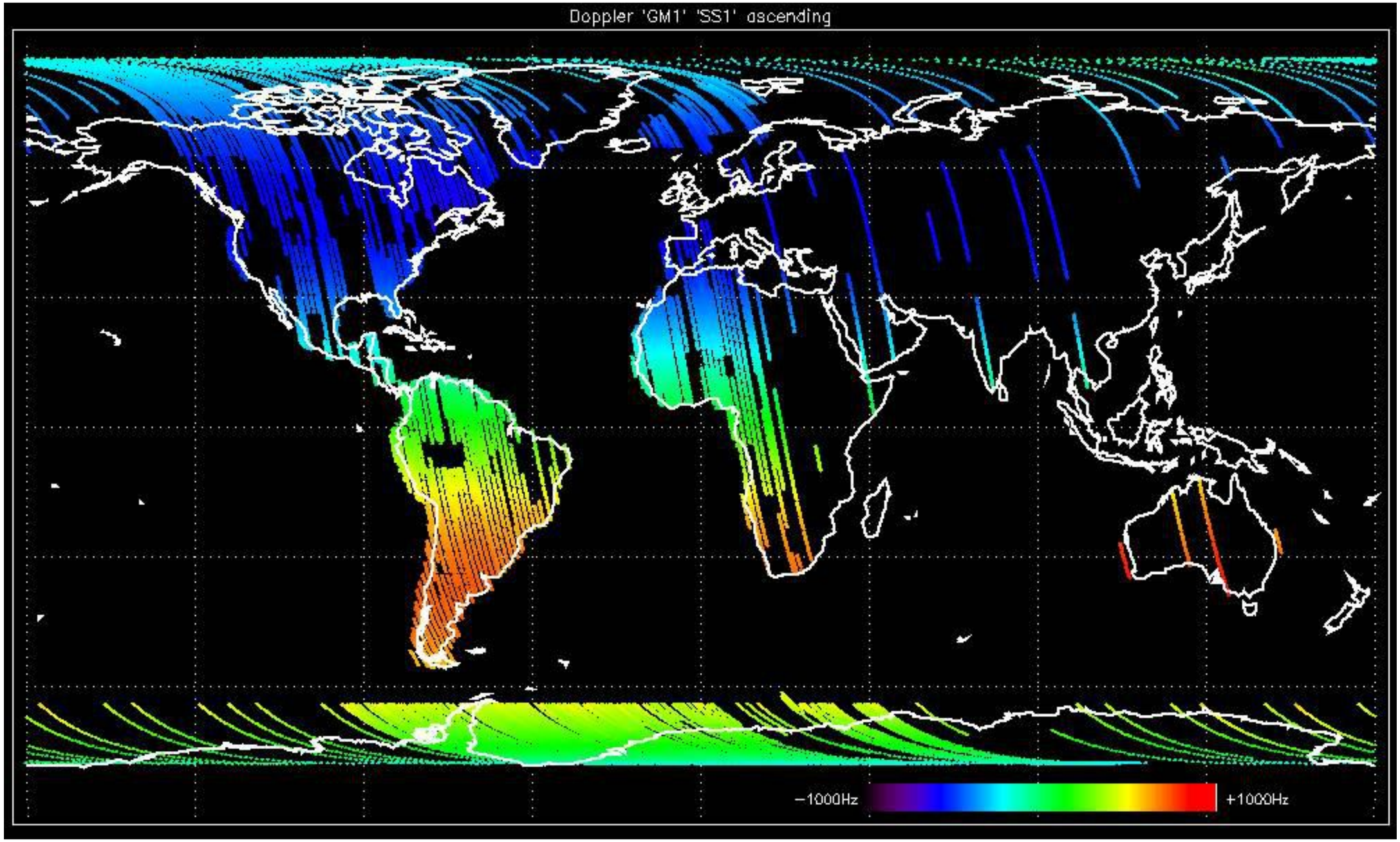
No anomalies observed.

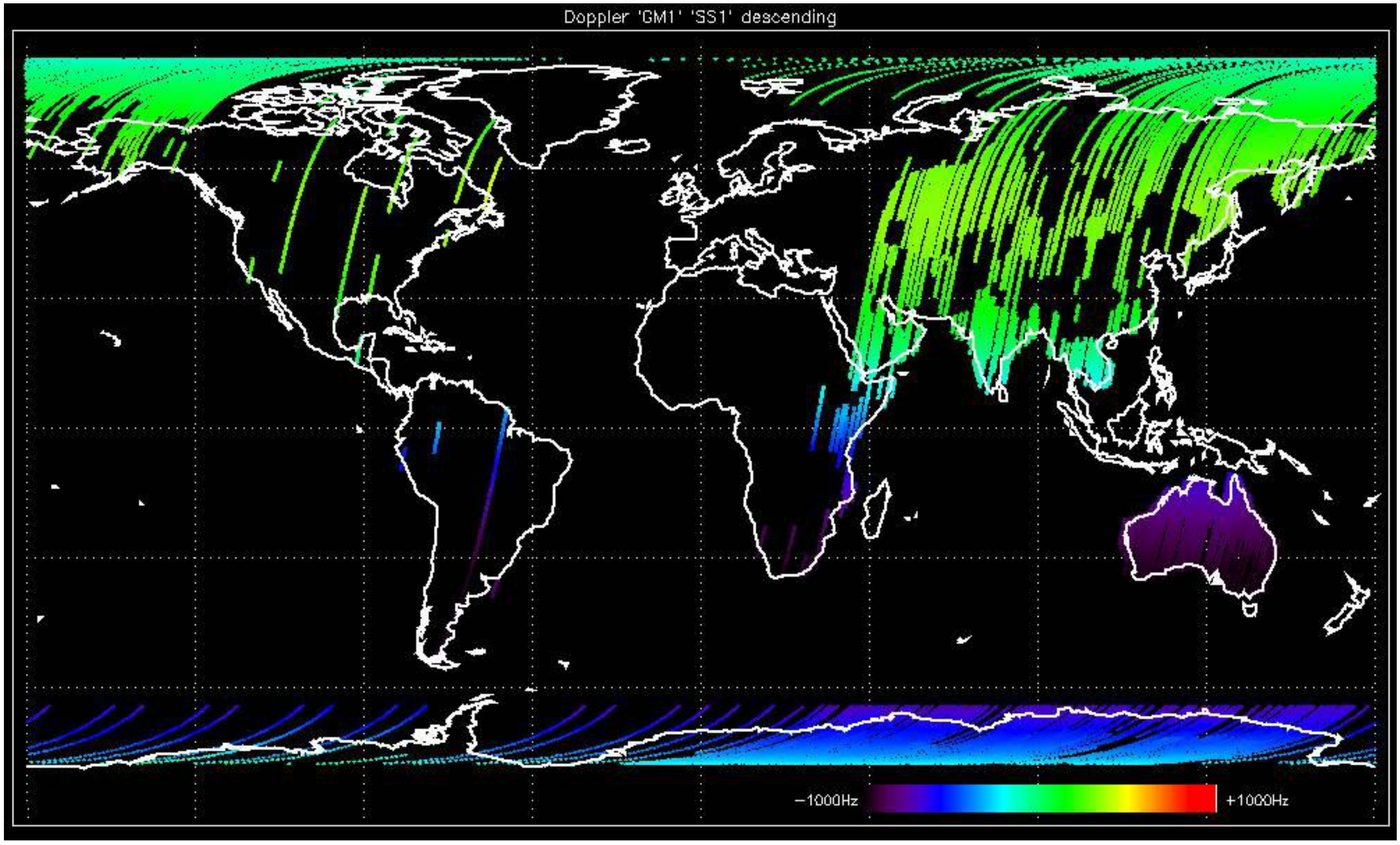

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

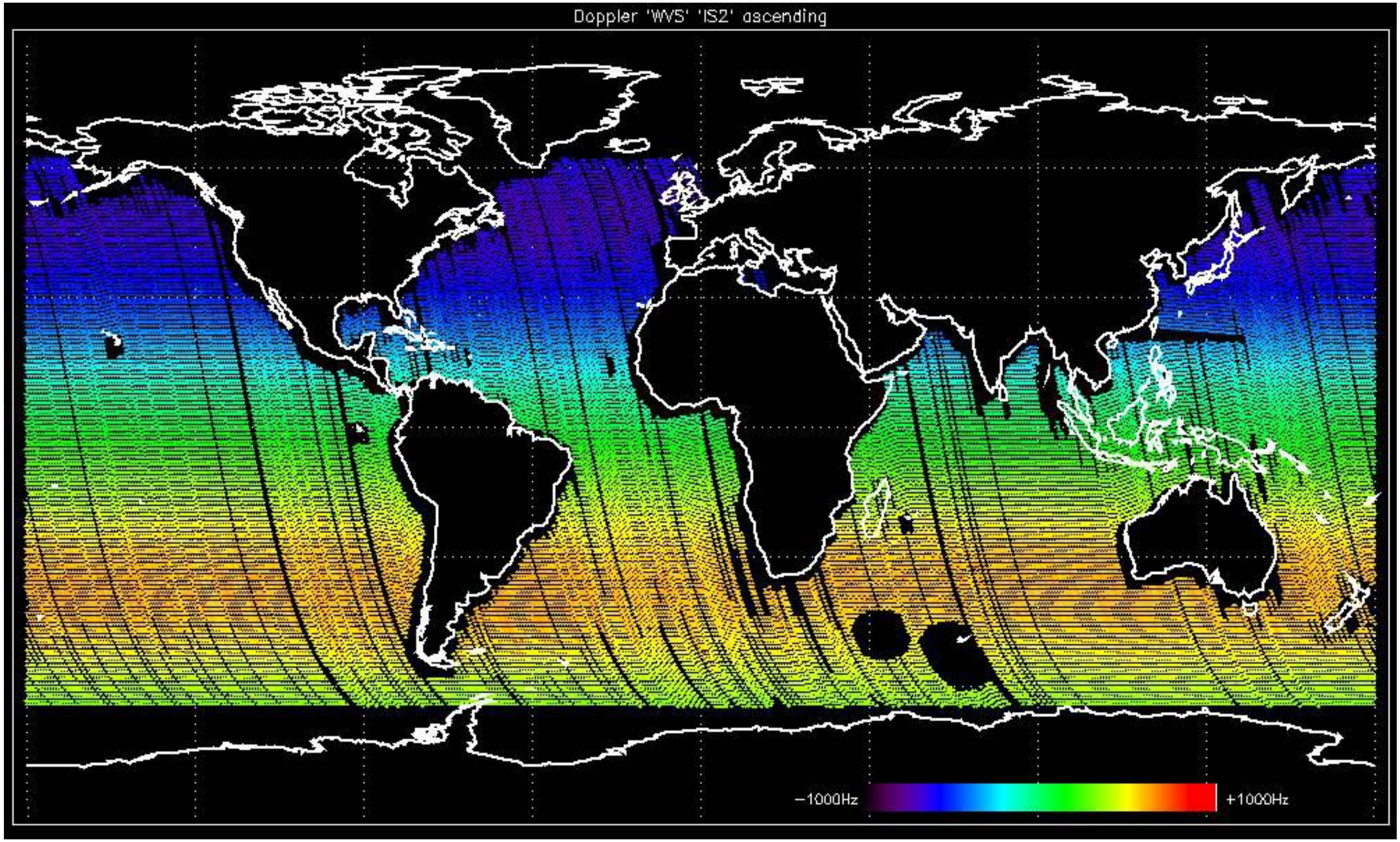

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

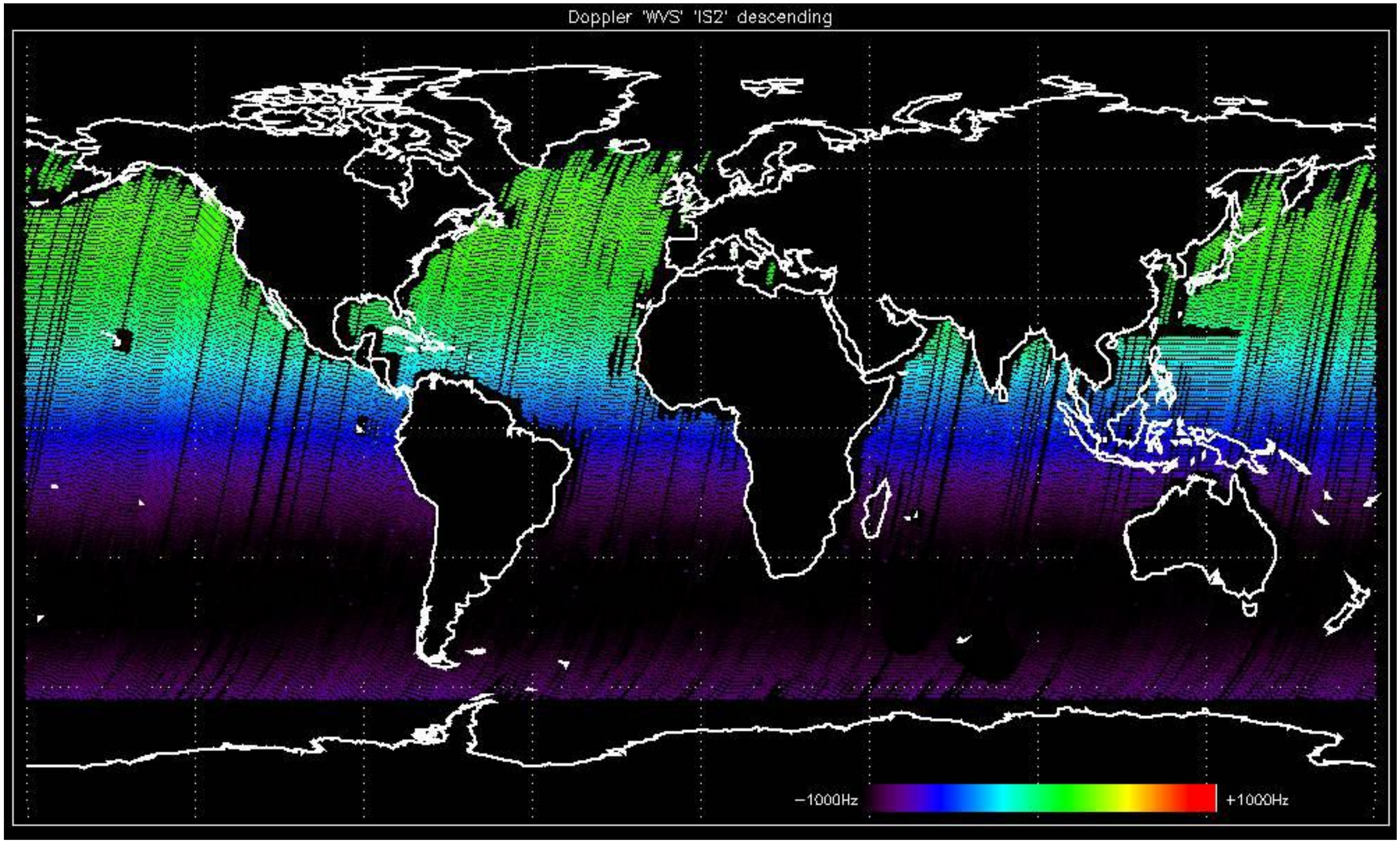
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

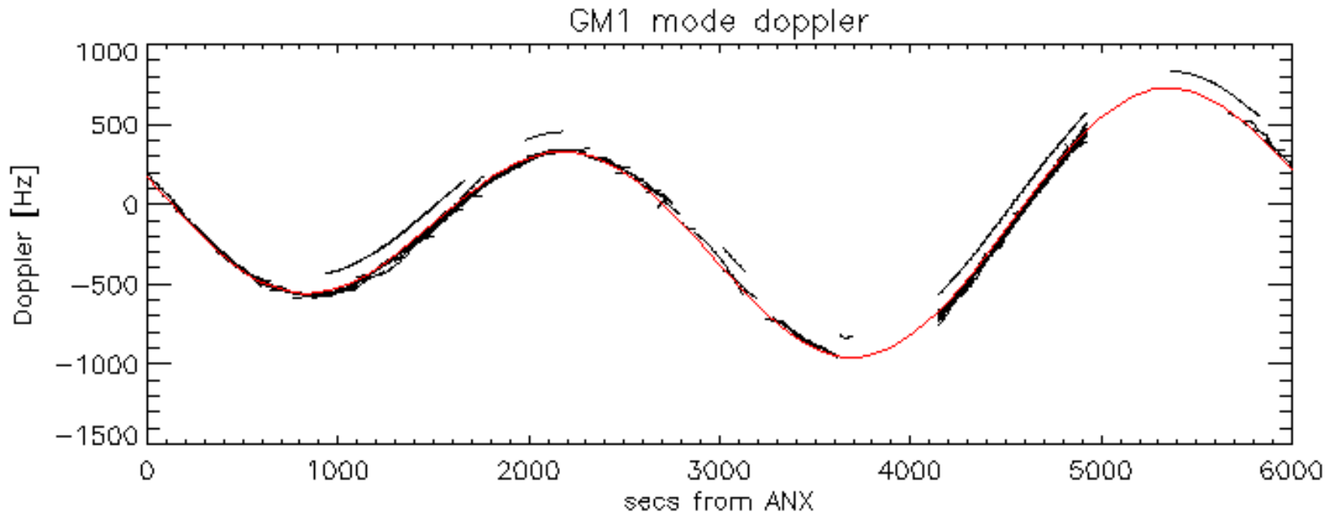
Preliminary report.The data is not yet controled

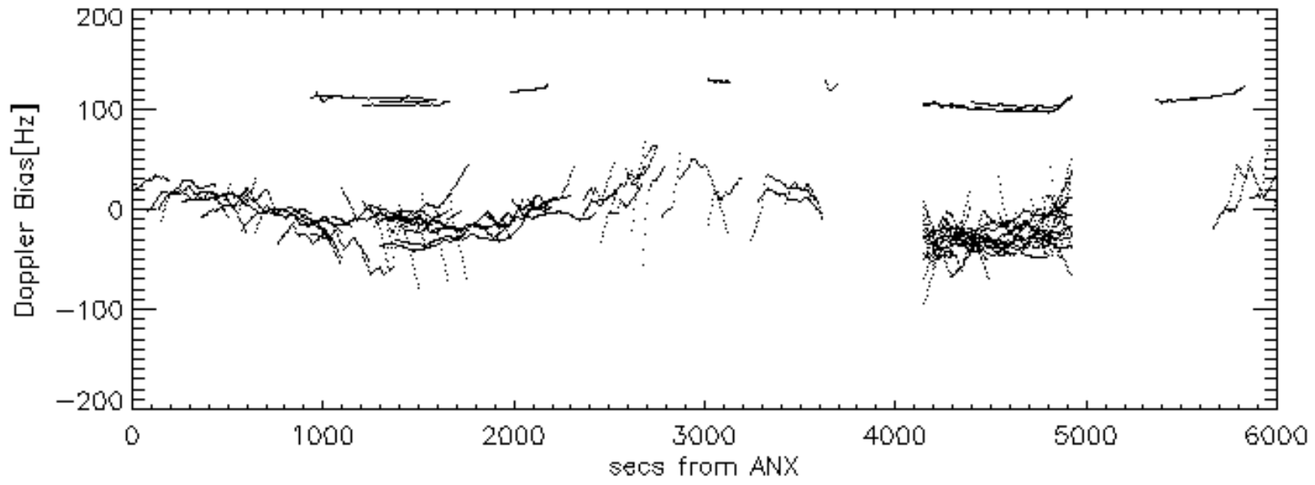

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

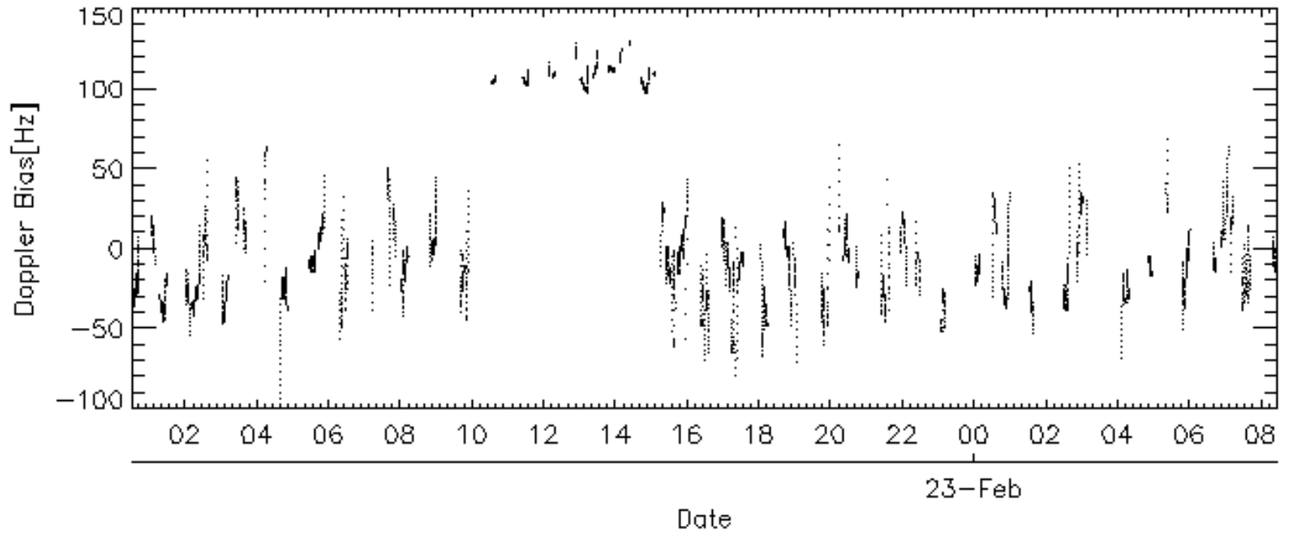

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

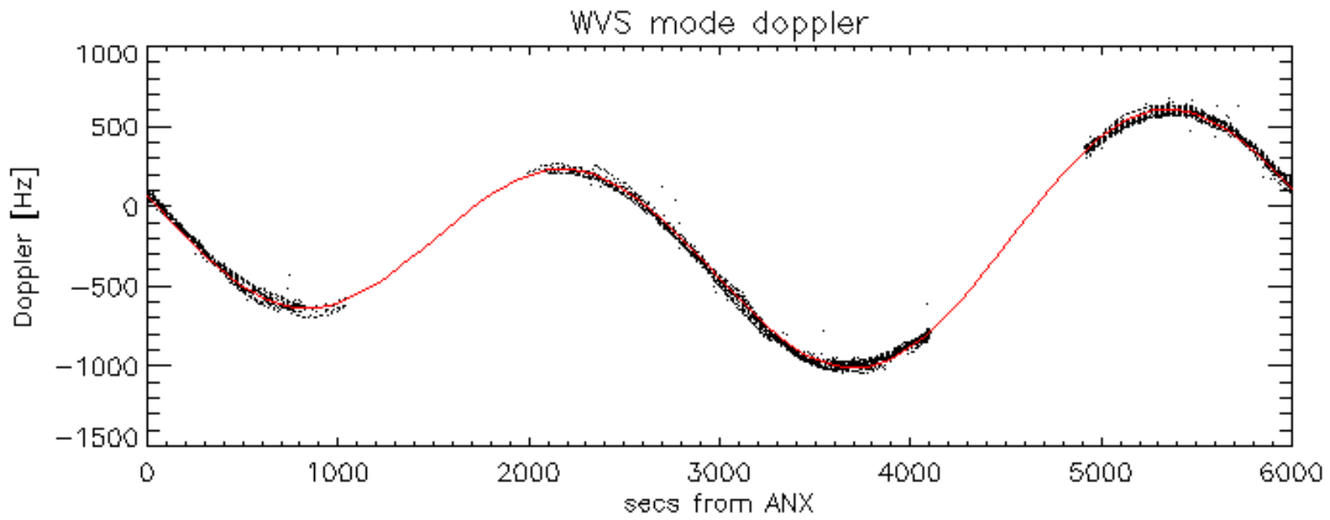

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

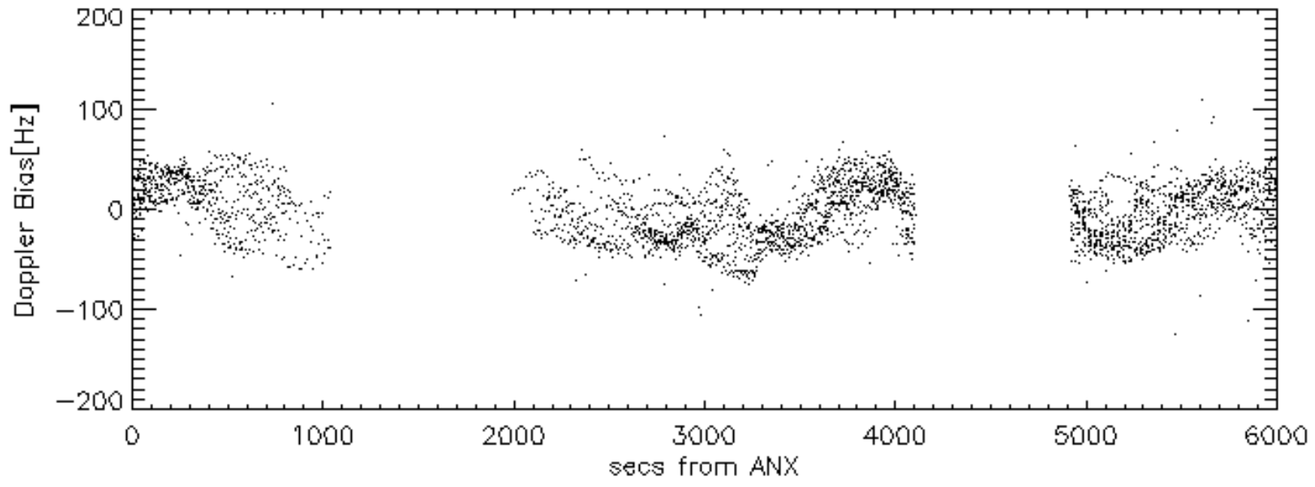

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

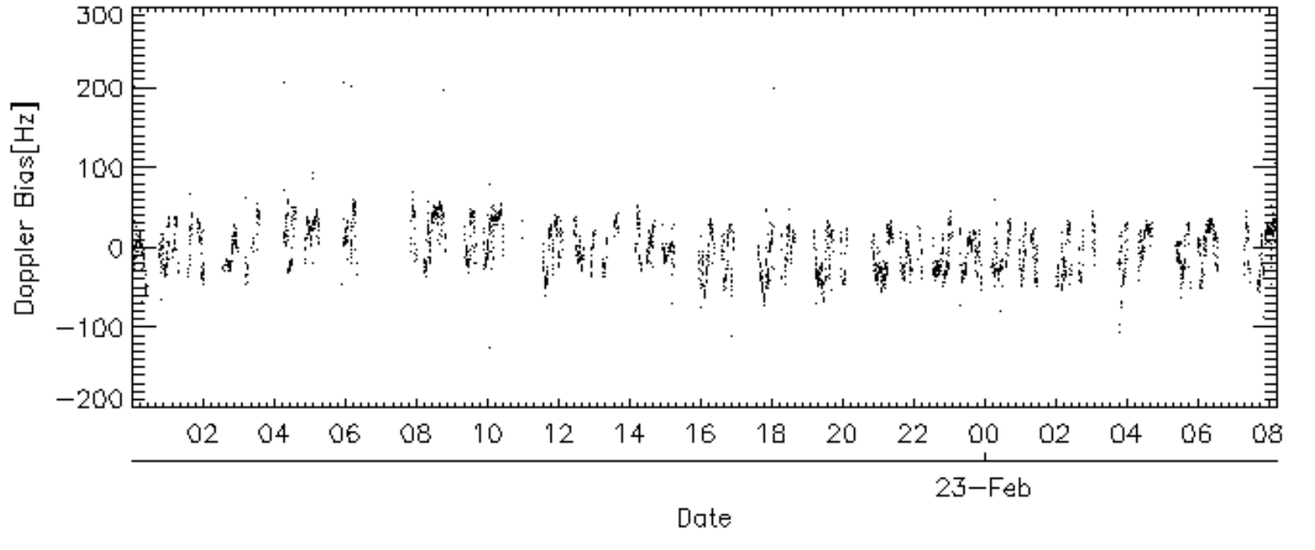

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

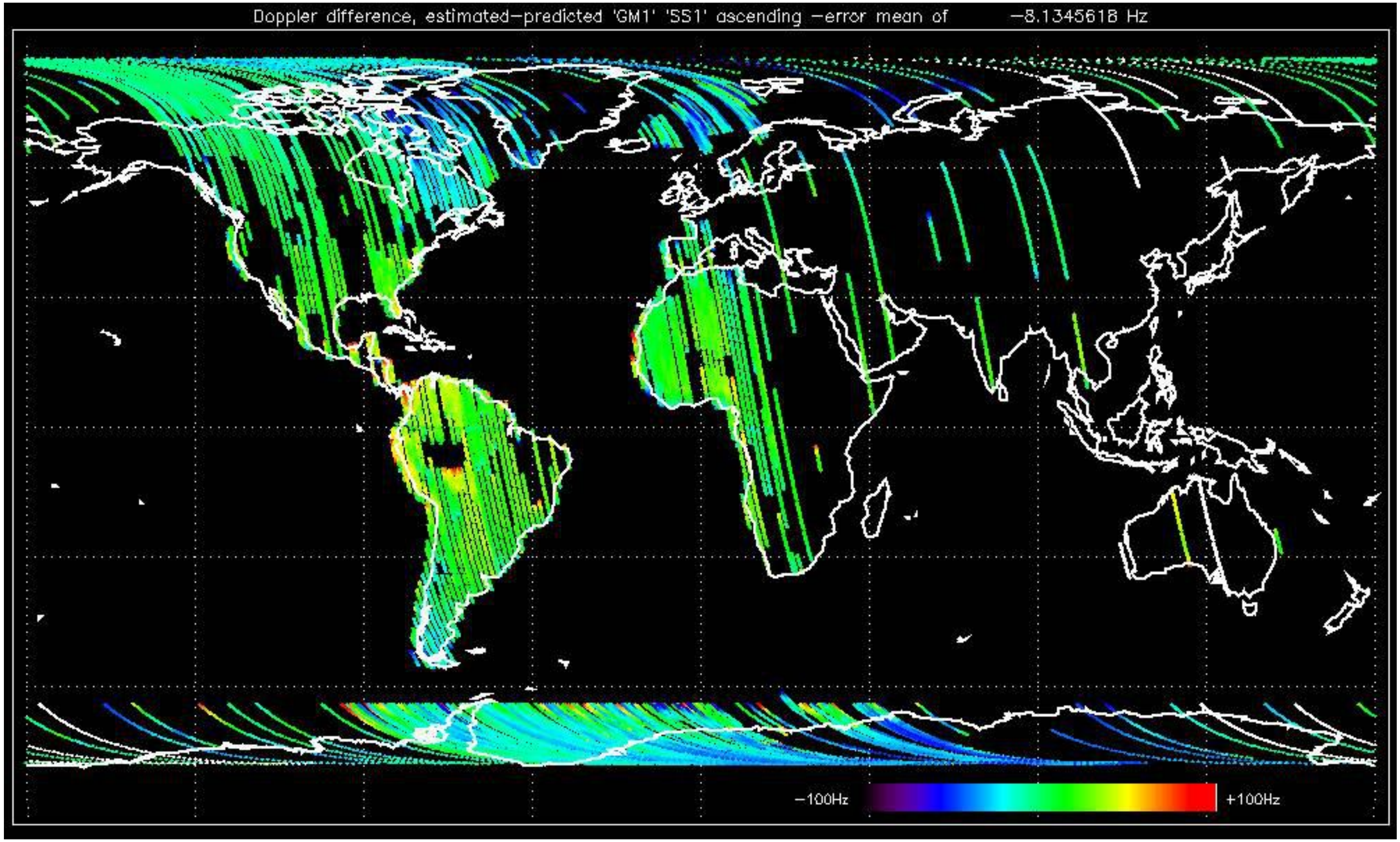

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

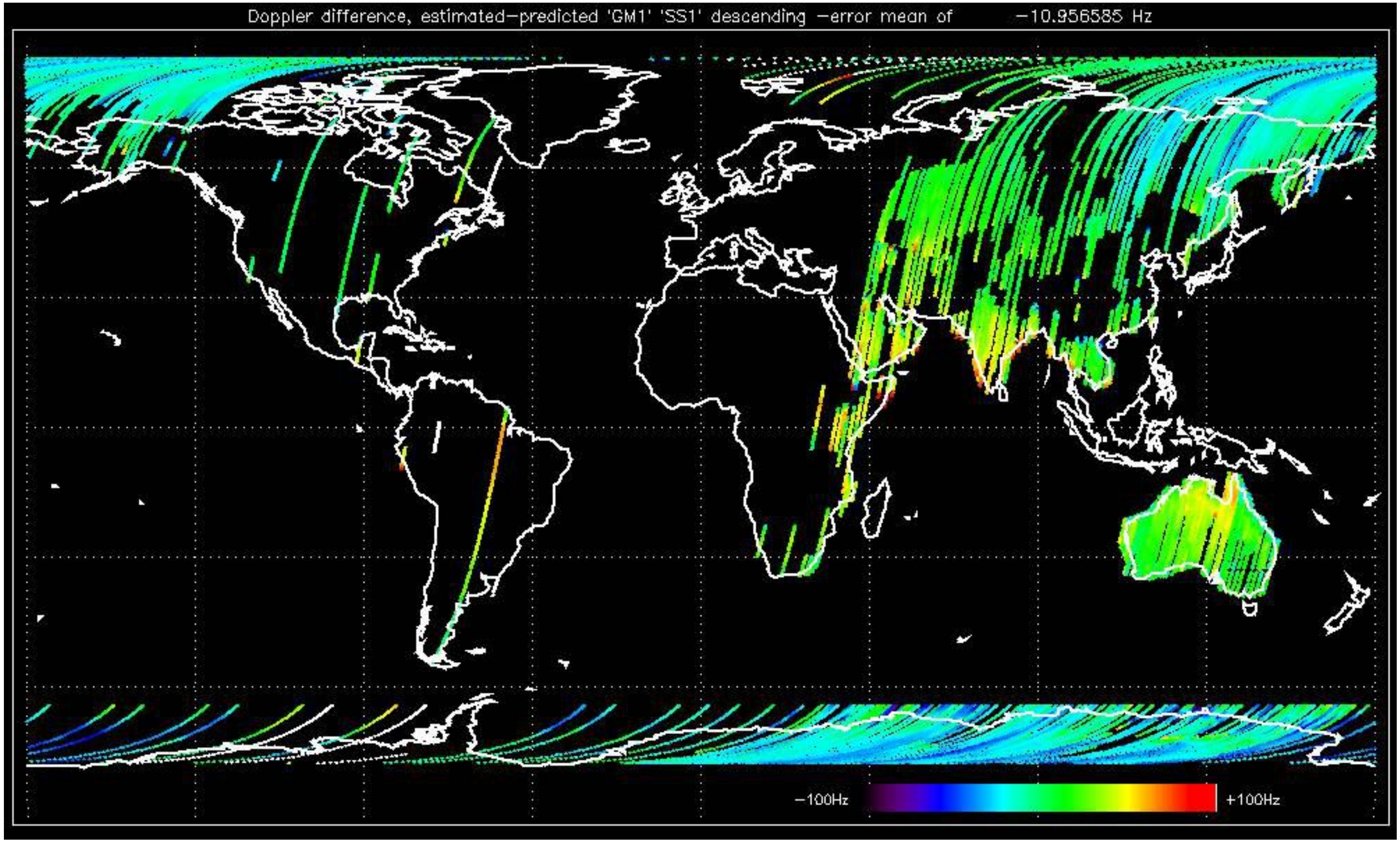

Doppler Bias[Hz]
150
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
23−Feb
Date

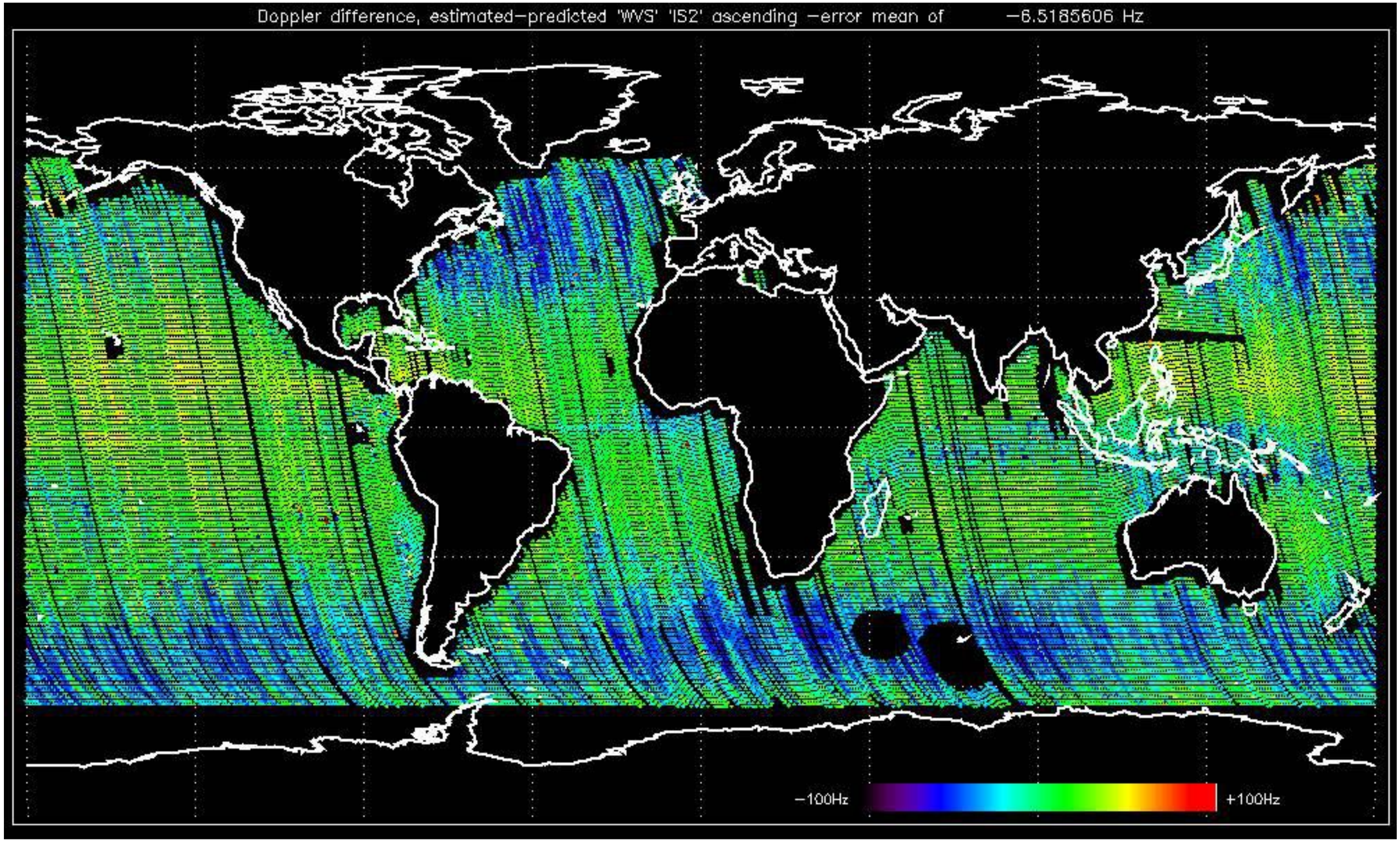

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

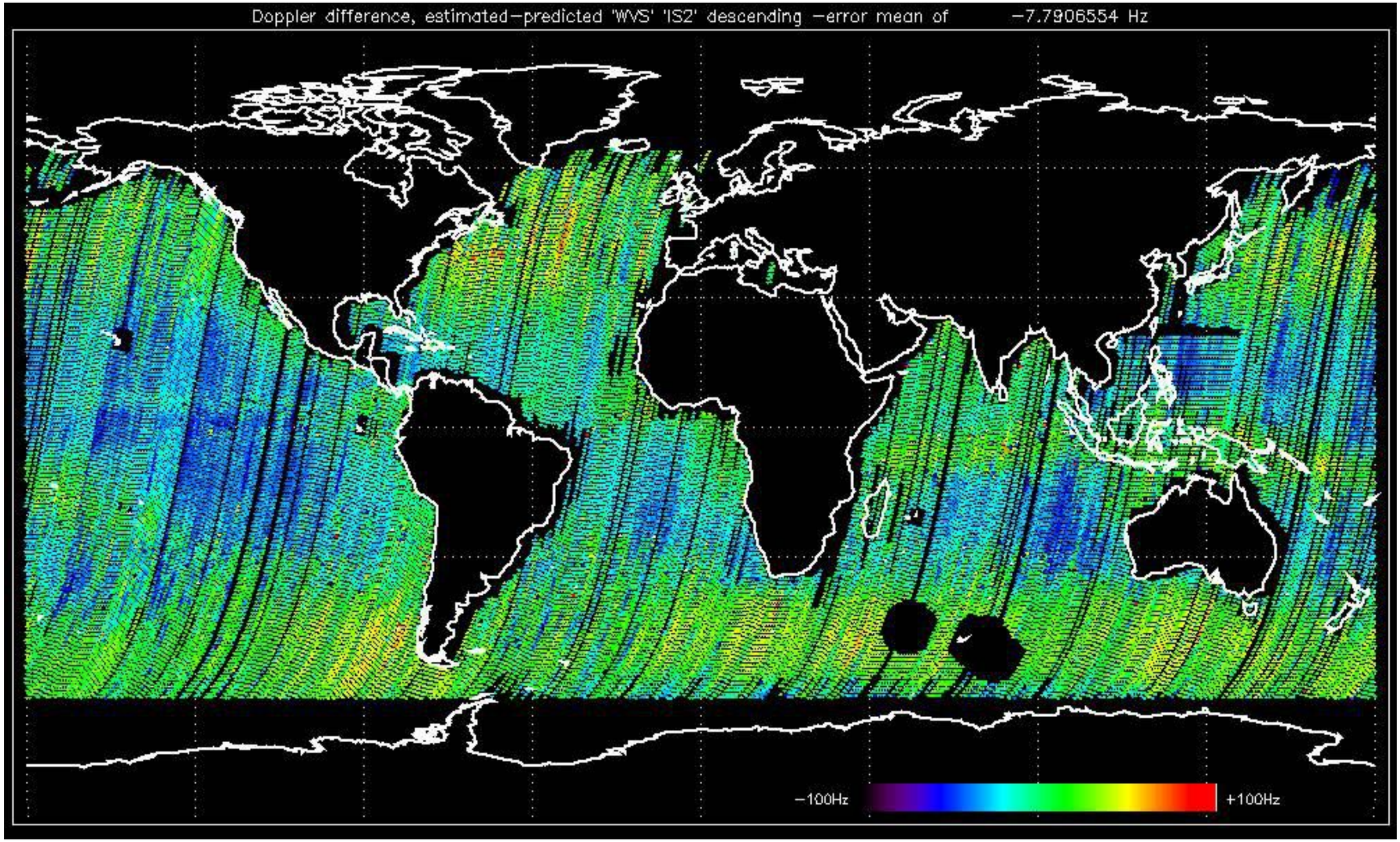

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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
23−Feb
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −8.1345618 Hz
−100Hz
+100Hz

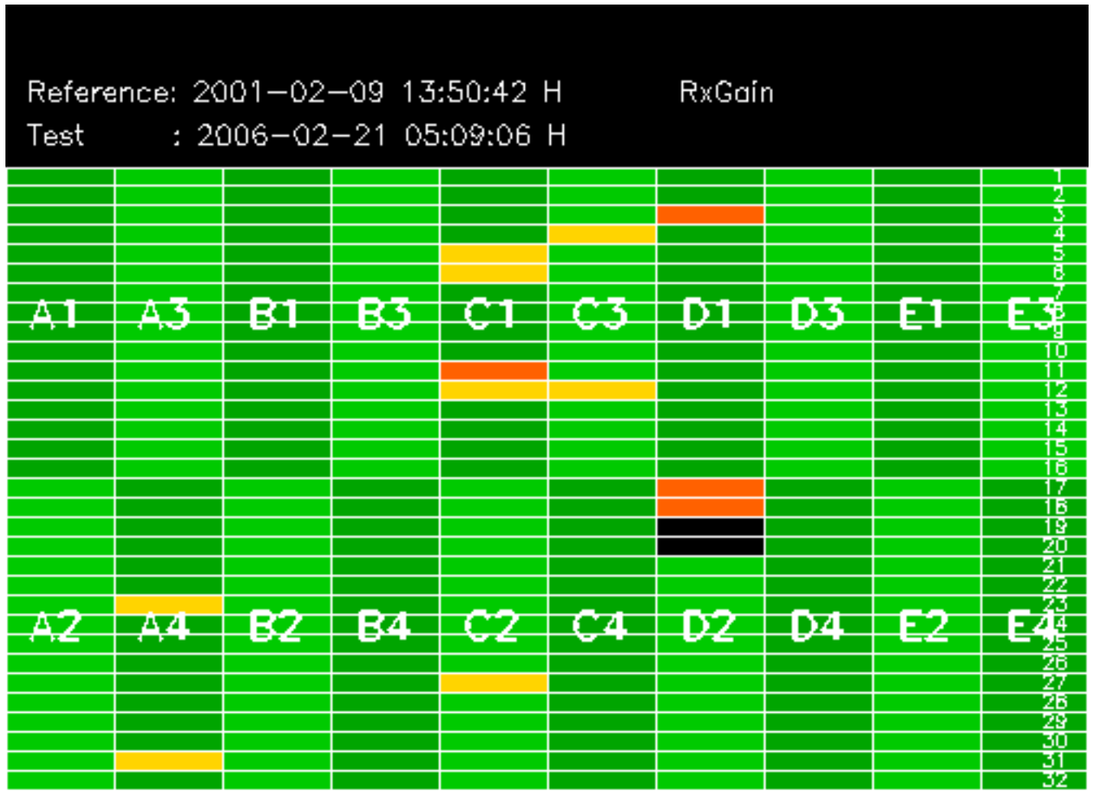

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -10.956585 Hz
-100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −6.5185606 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −7.7906554 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-02-21 05:09:06 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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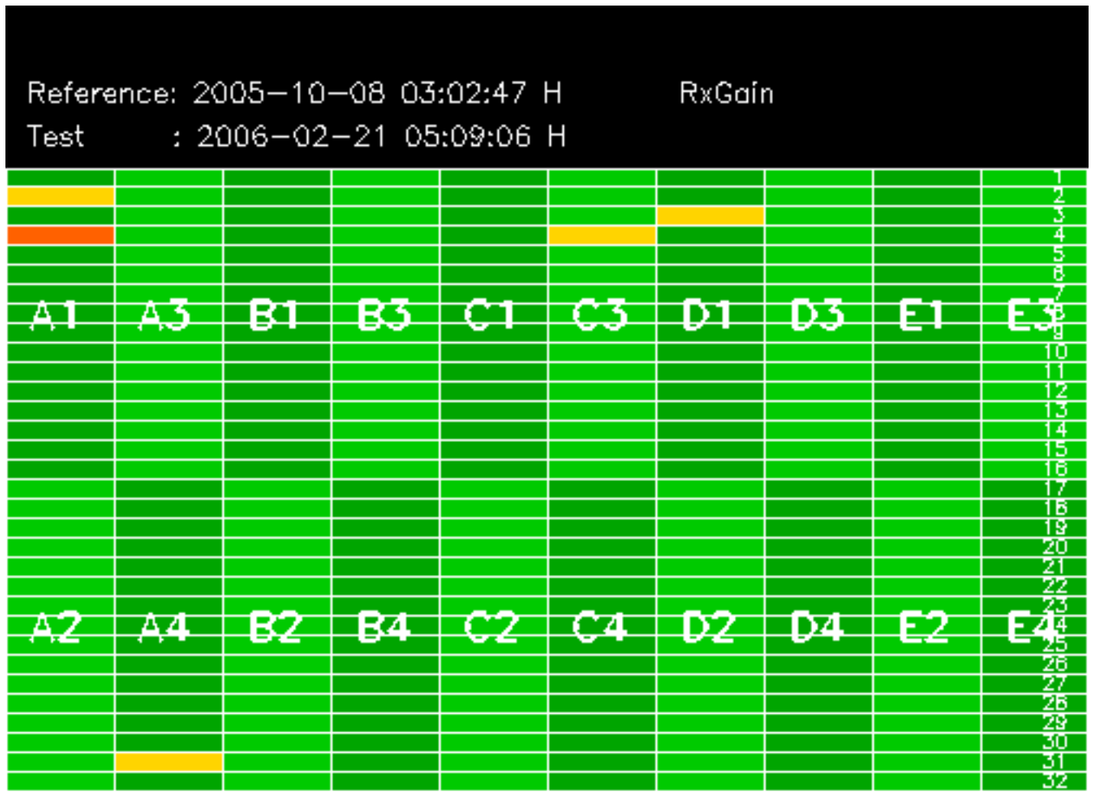
Reference: 2005-10-08 03:02:47 H
Test : 2006-02-21 05:09:06 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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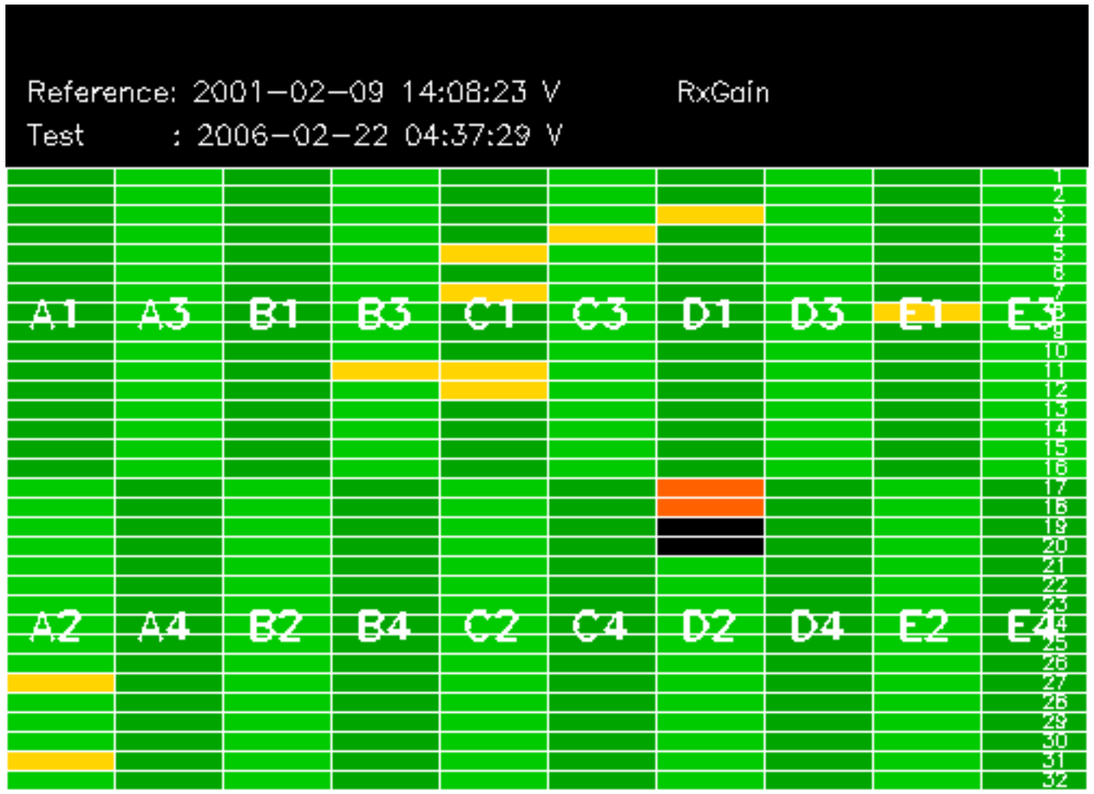
Reference: 2001-02-09 14:08:23 V
Test : 2006-02-22 04:37:29 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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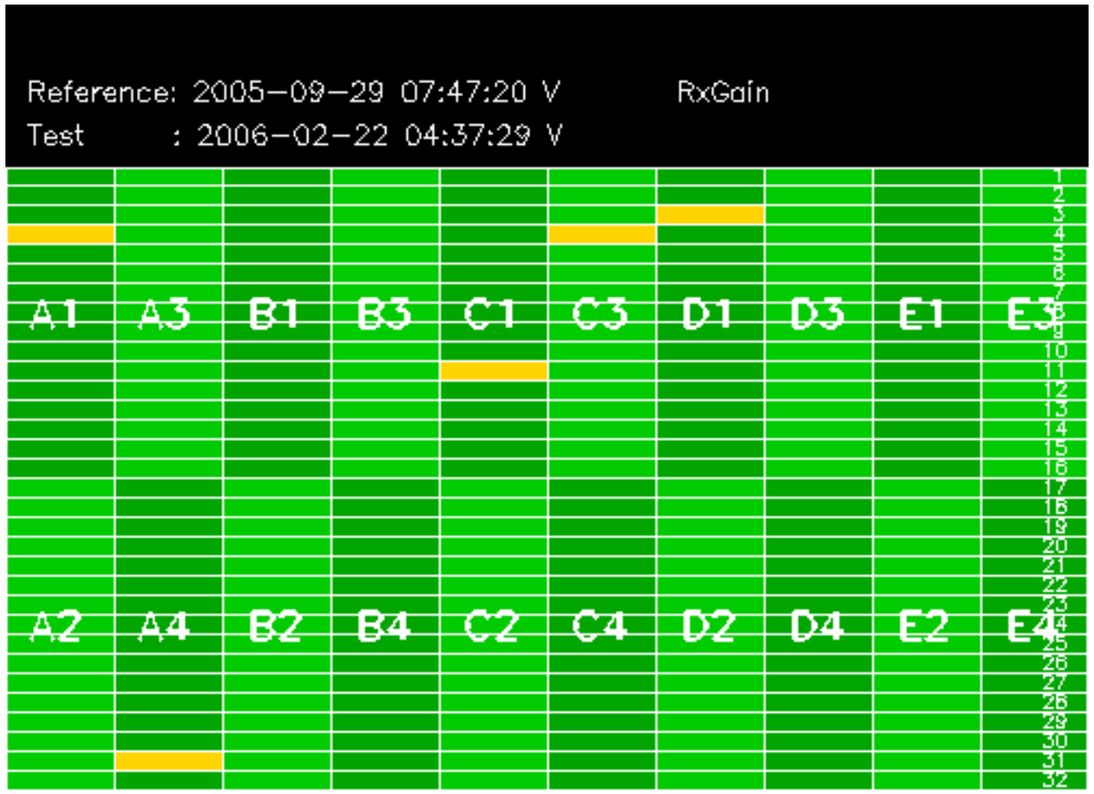
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-22 04:37:29 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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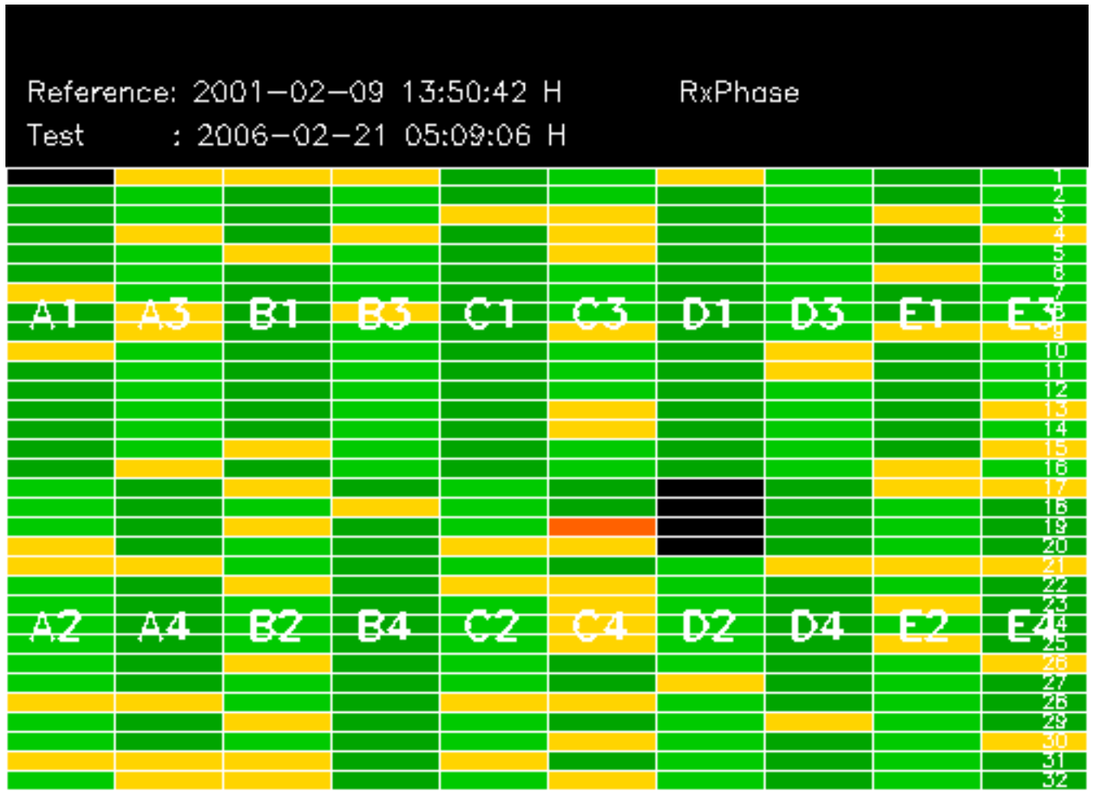
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-02-21 05:09:06 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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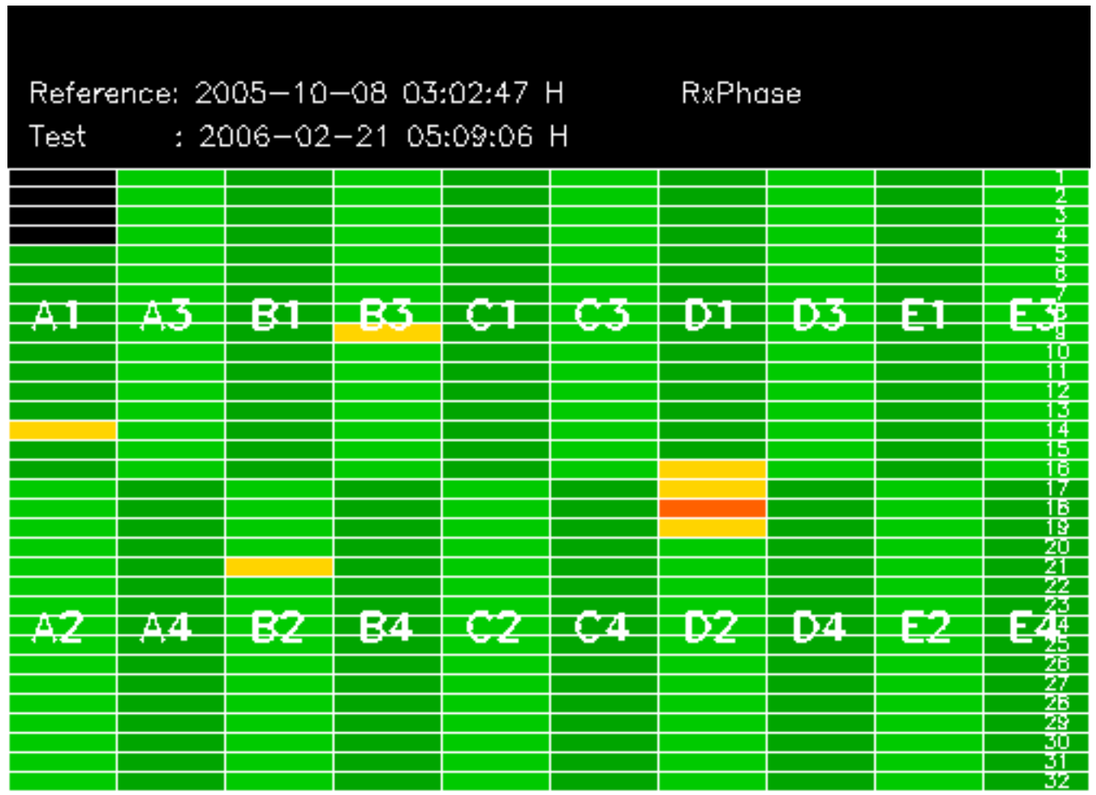
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-02-21 05:09:06 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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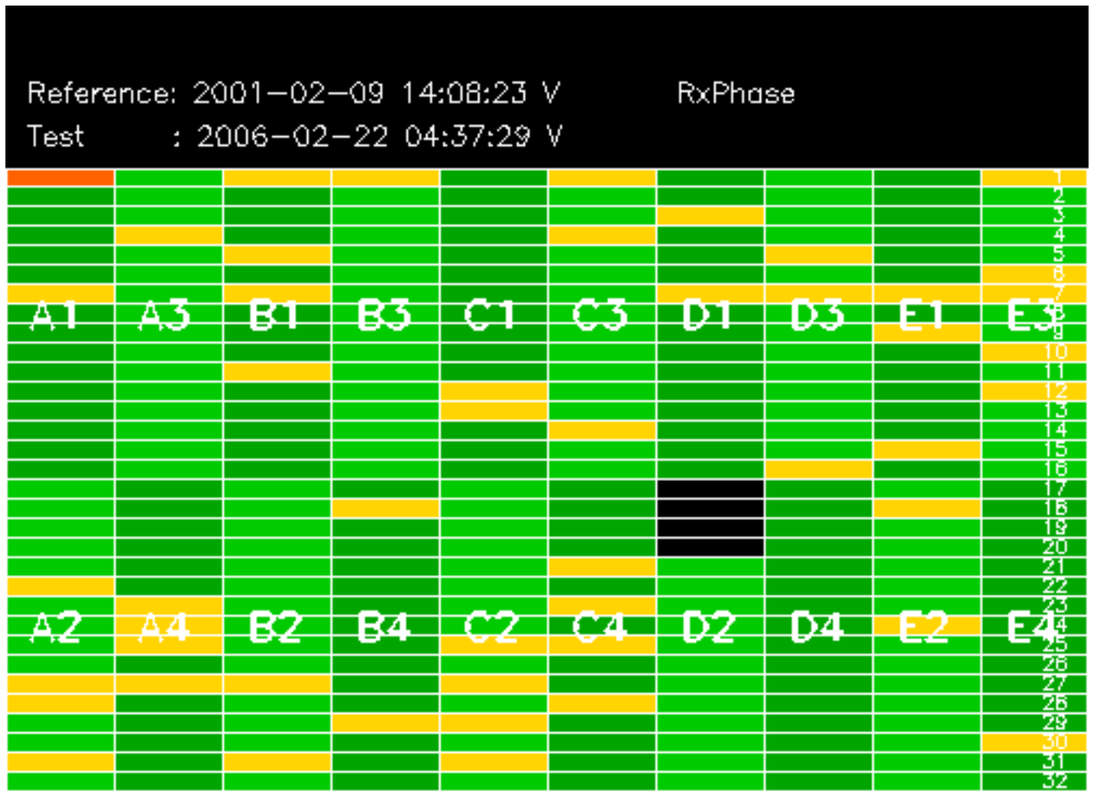
Reference: 2001-02-09 14:08:23 V
Test : 2006-02-22 04:37:29 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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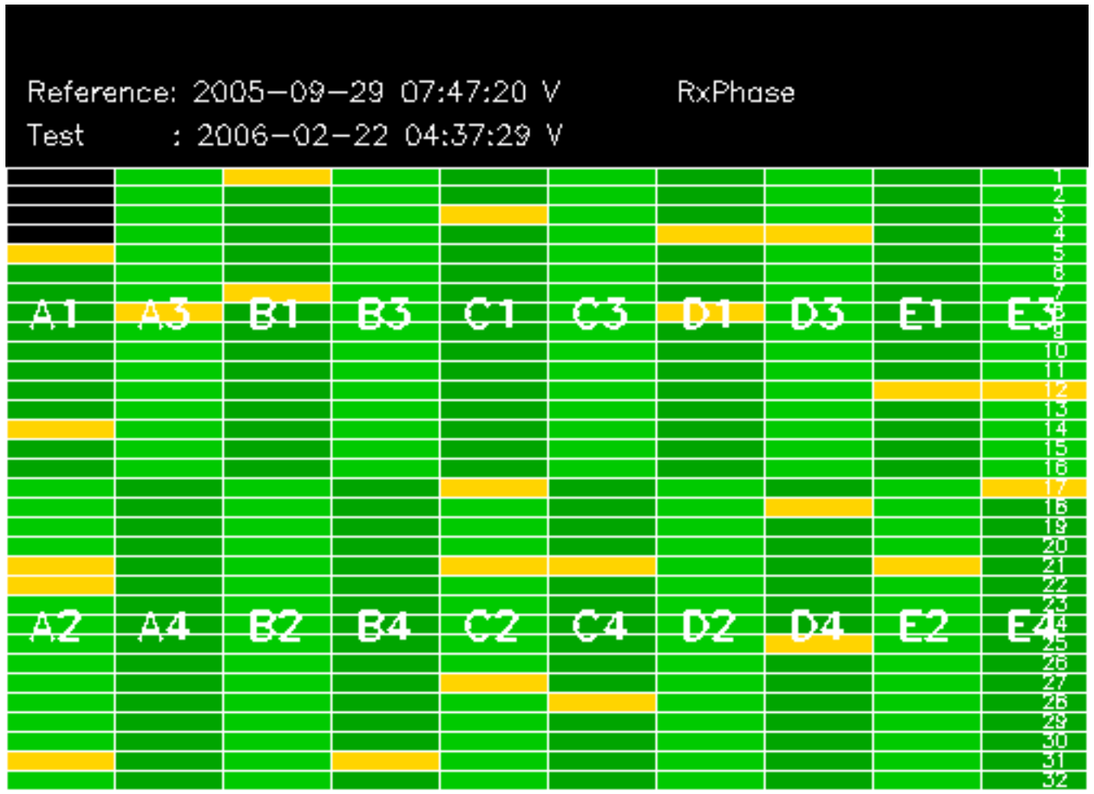
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-22 04:37:29 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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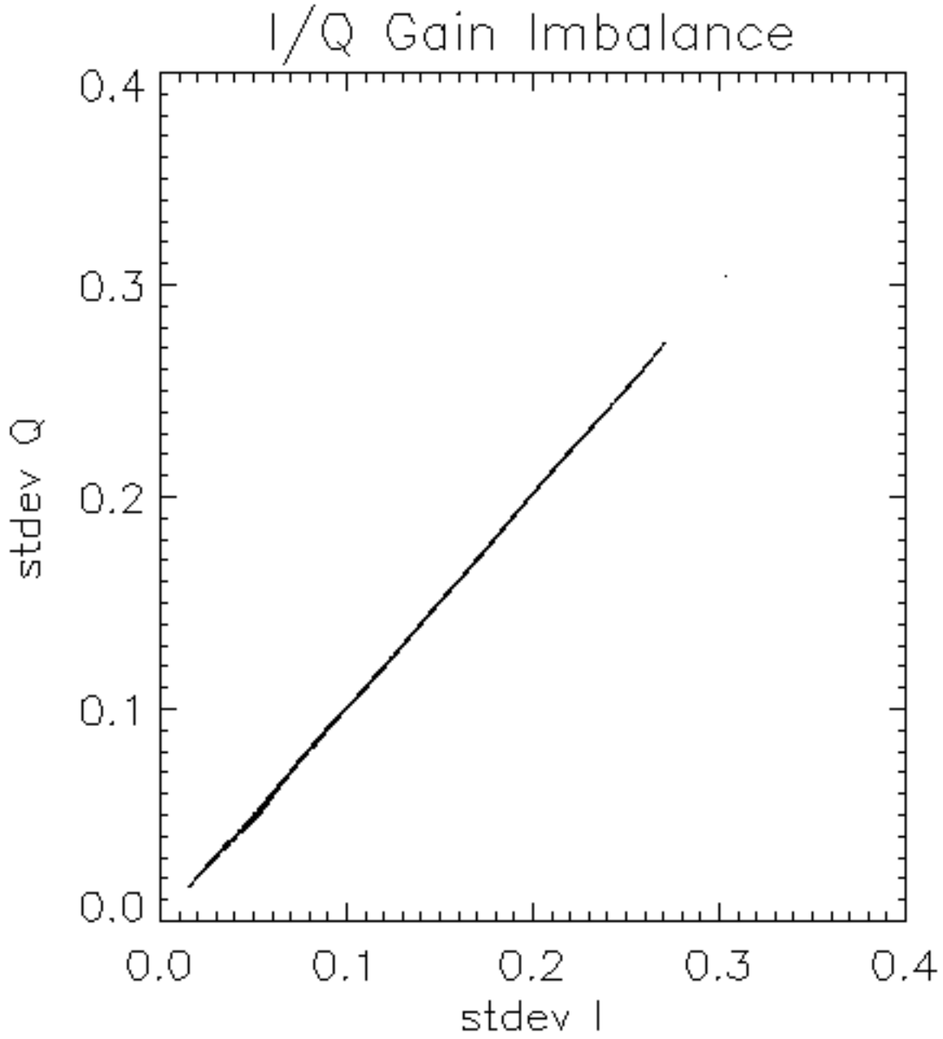
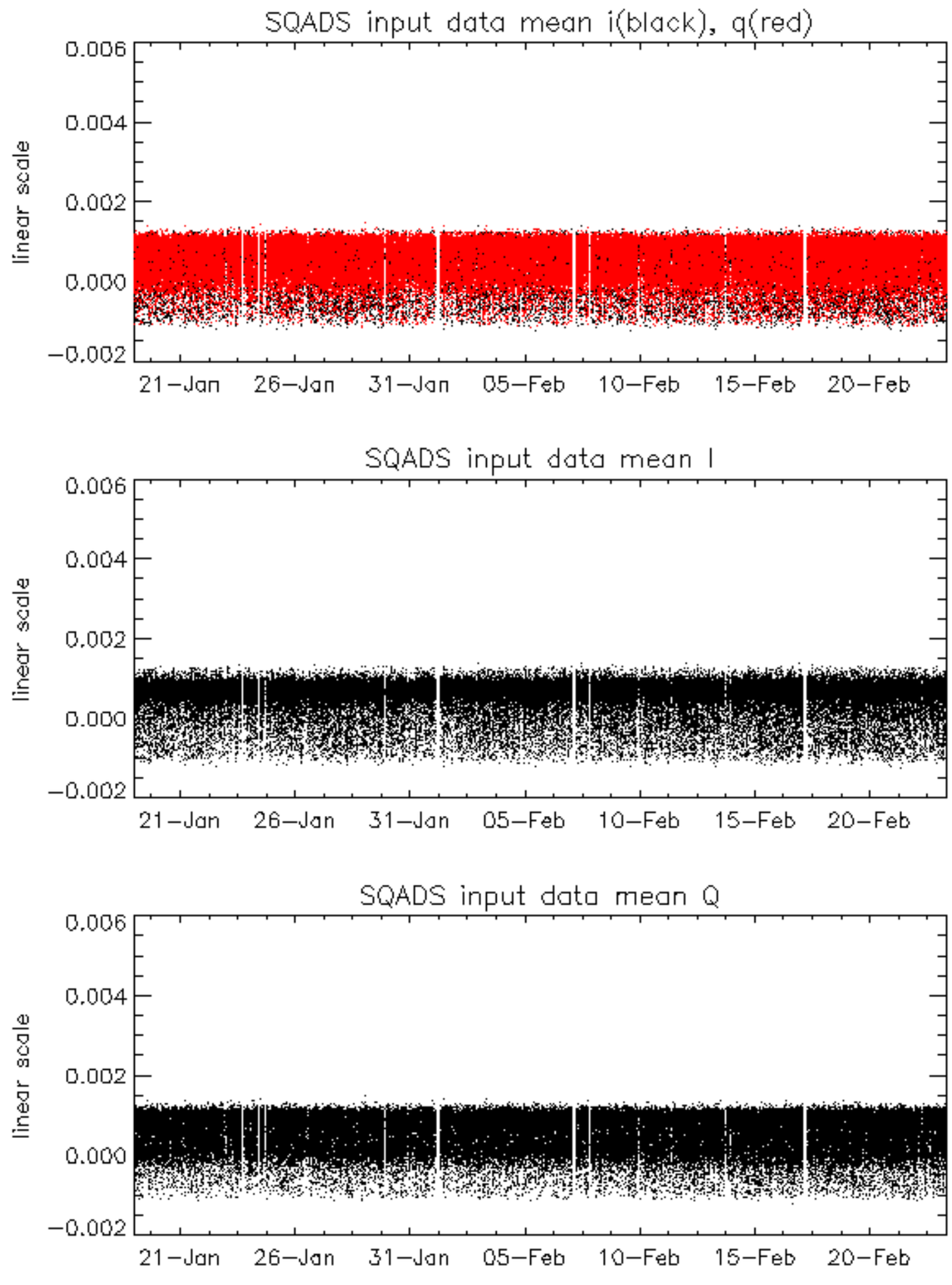
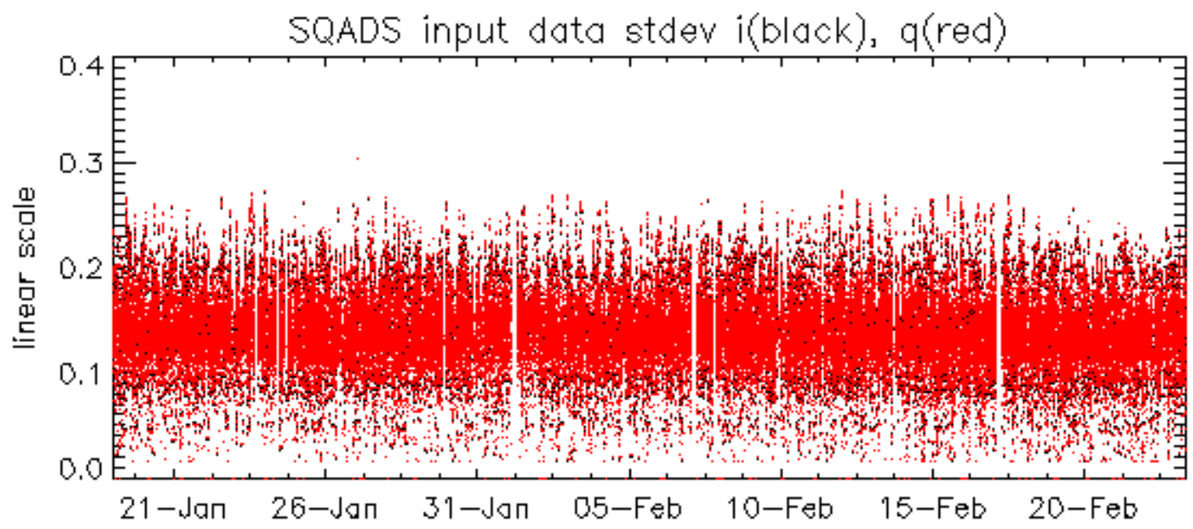
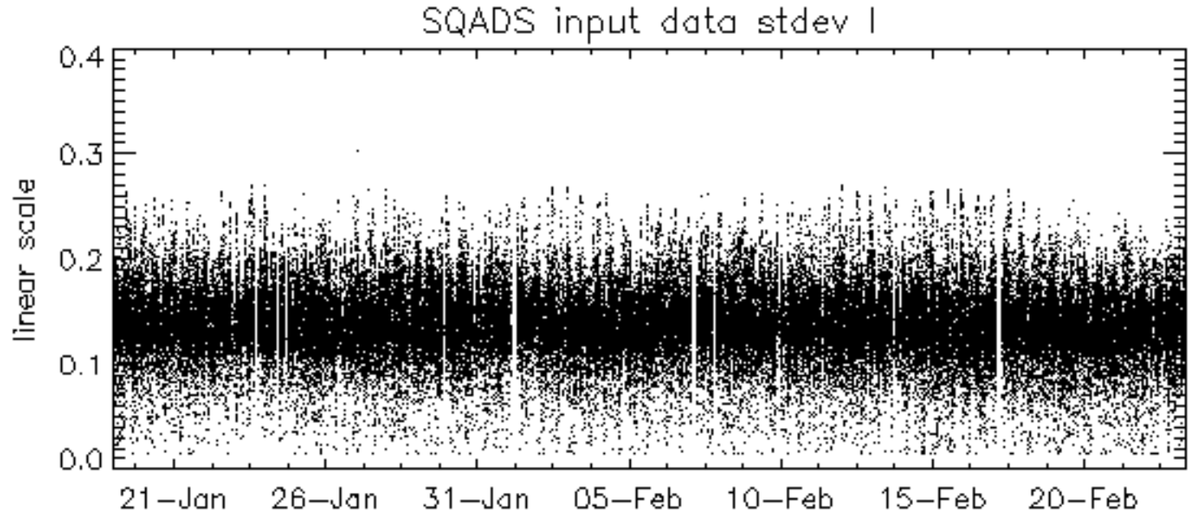
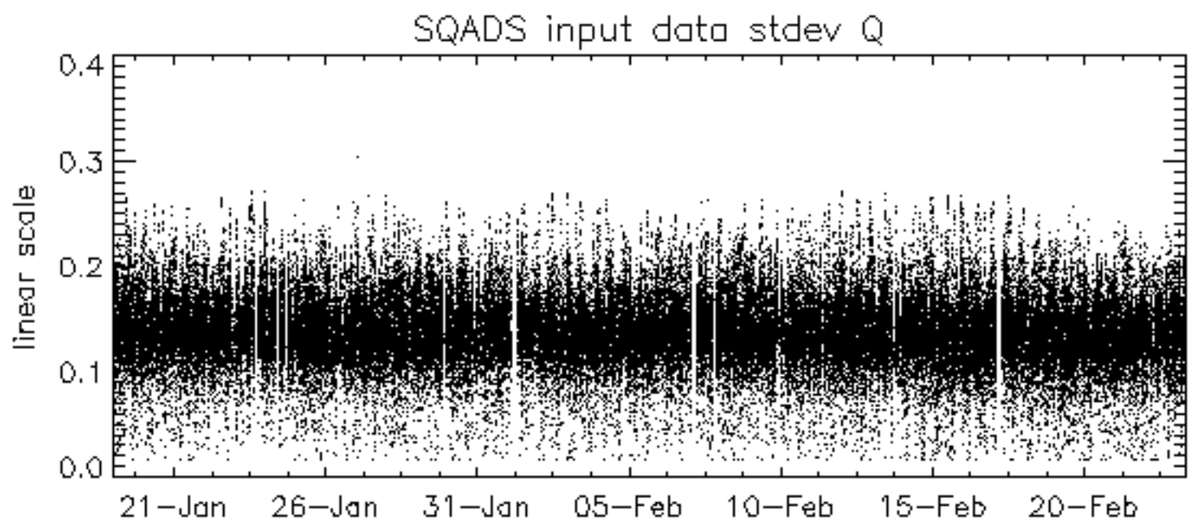
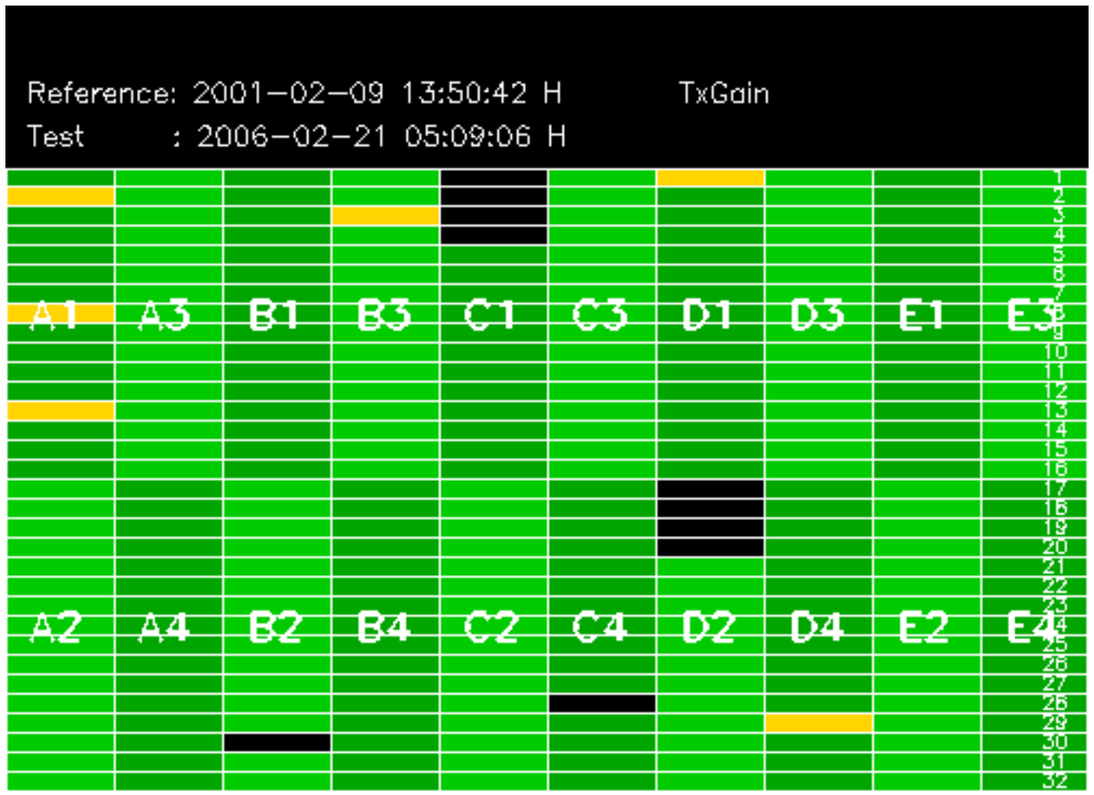

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I


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 : 2006-02-21 05:09:06 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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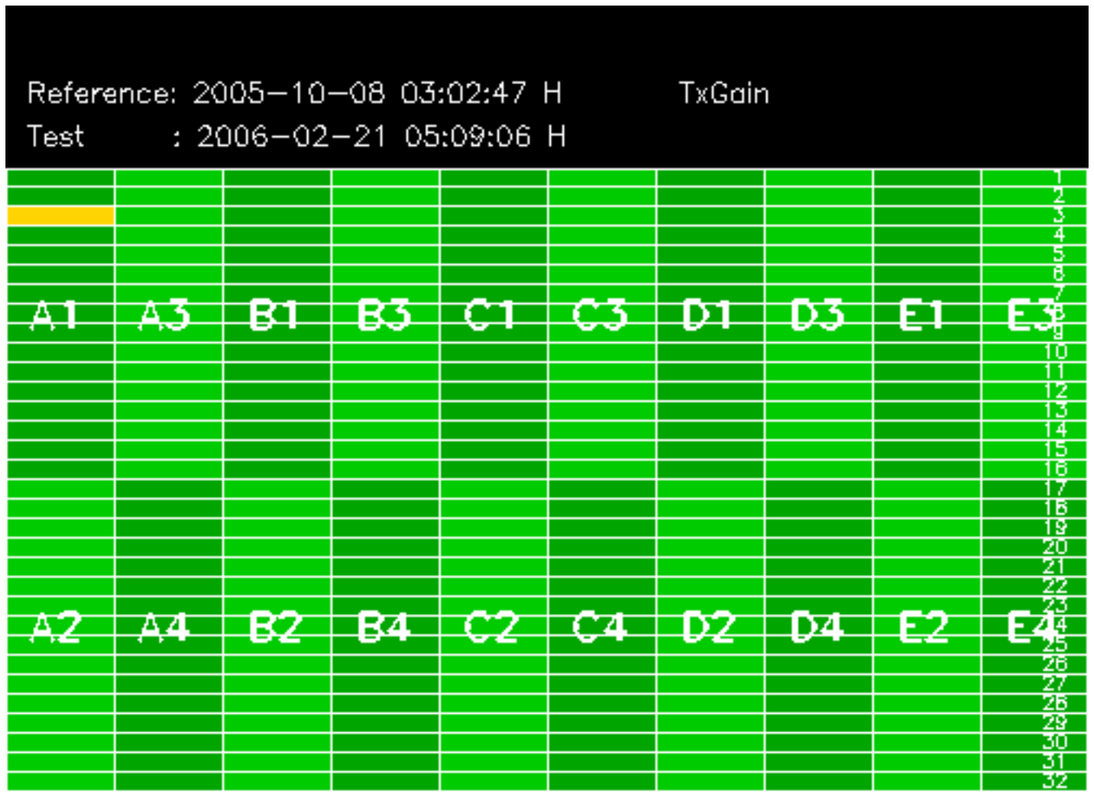
Reference: 2005-10-08 03:02:47 H
Test : 2006-02-21 05:09:06 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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Reference: 2001-02-09 14:08:23 V
Test : 2006-02-22 04:37:29 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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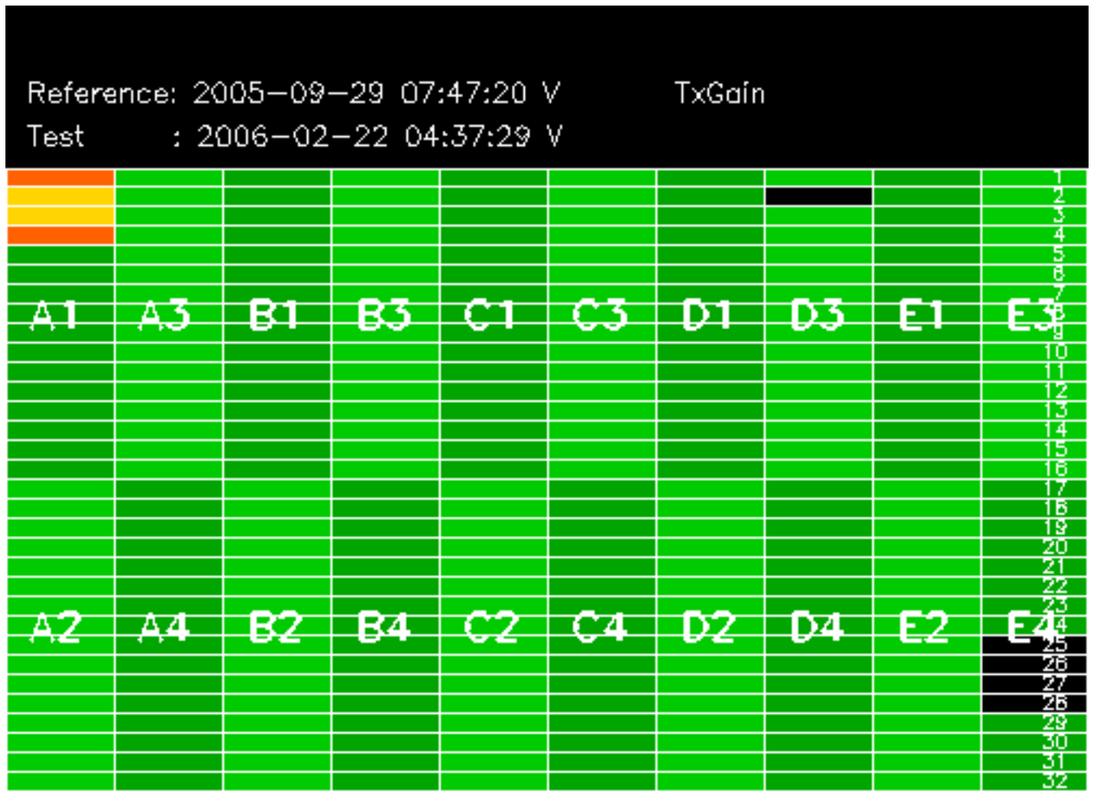
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-22 04:37:29 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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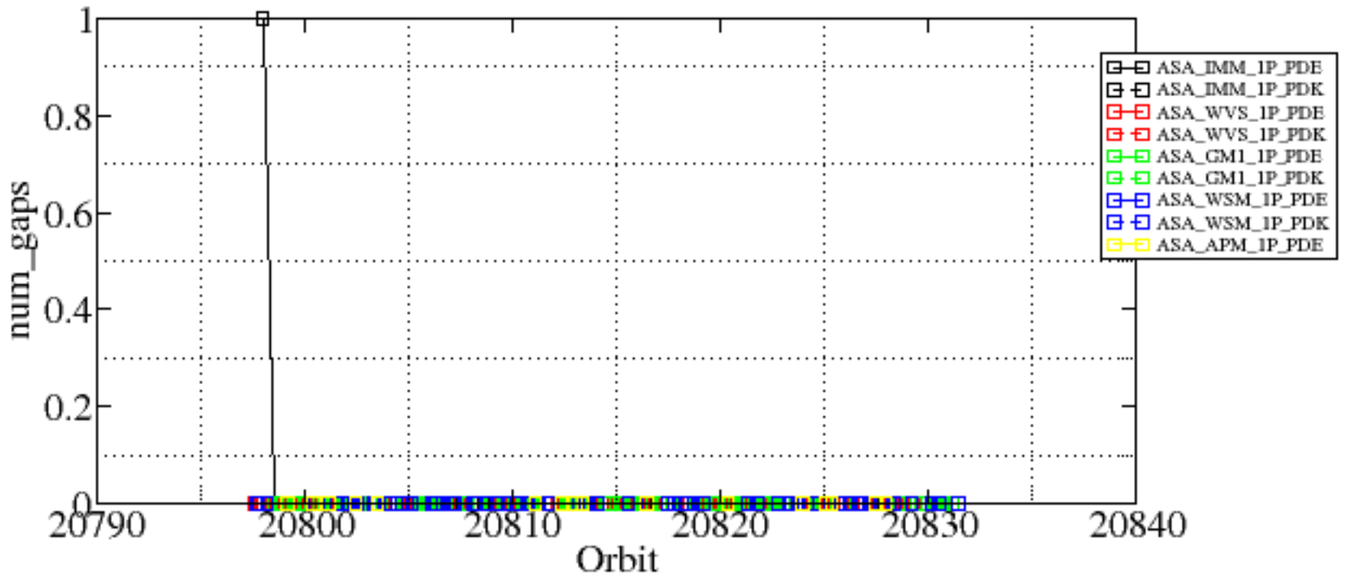
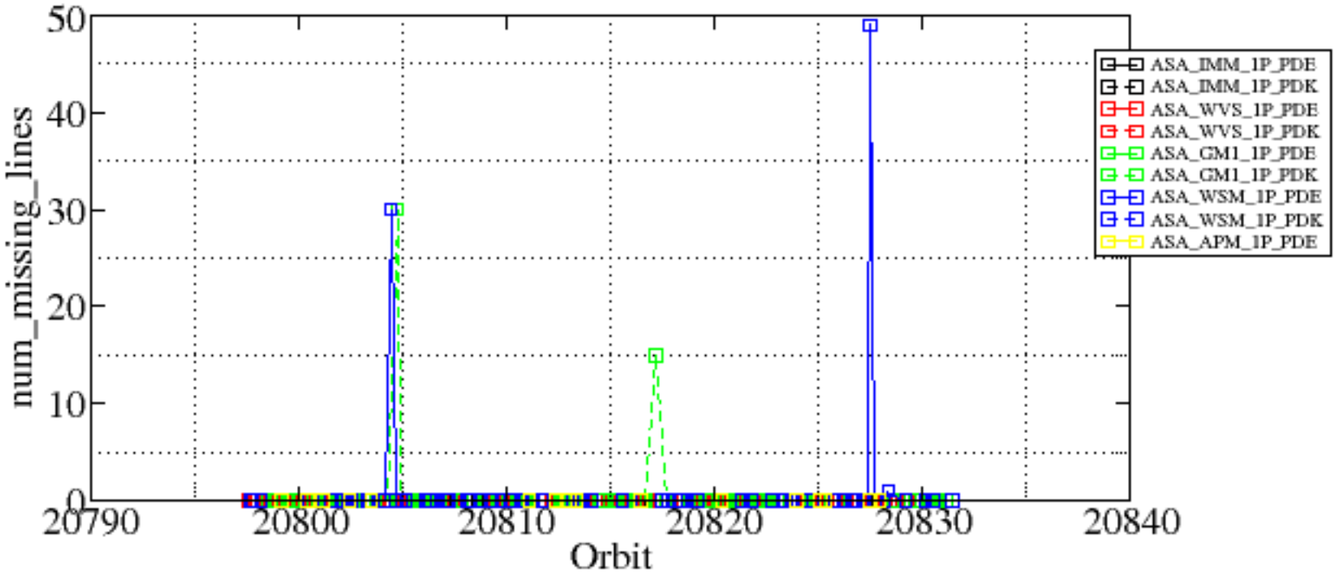
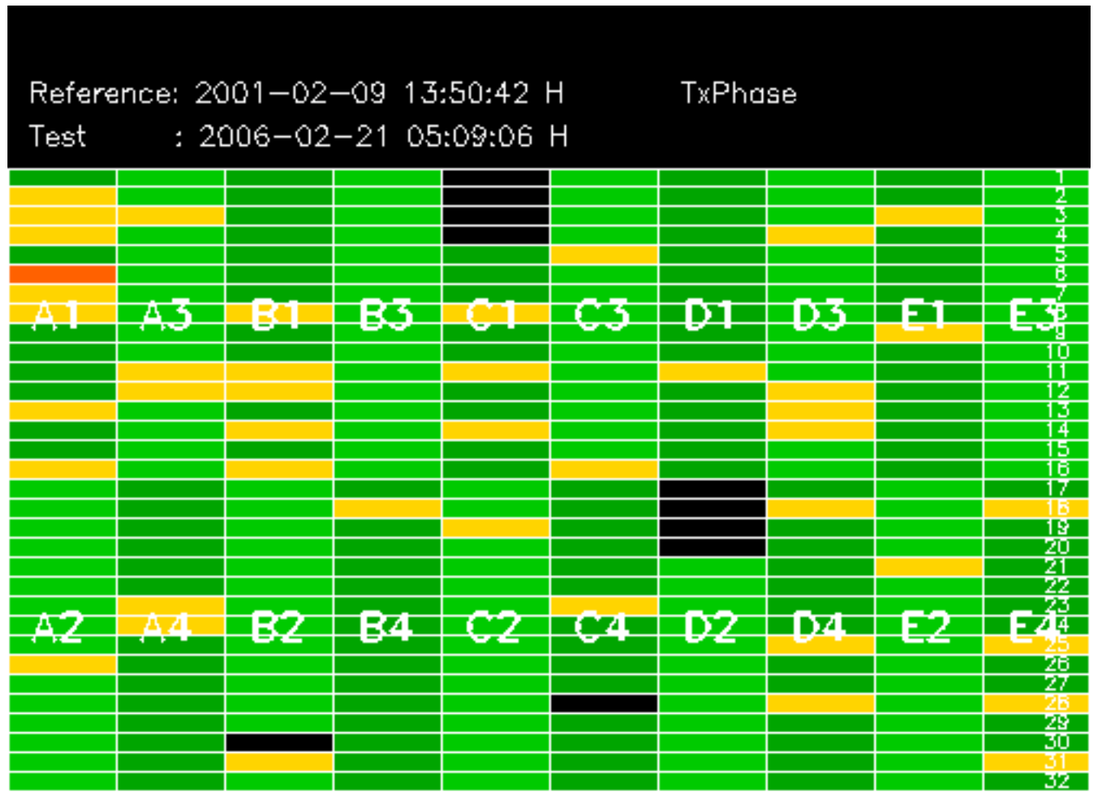
Summary of analysis for the last 3 days 2006022[123]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060221_003709_000001342045_00202_20797_3819.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20060221_115852_000004282045_00209_20804_2149.N1 </td> <td>0 </td> <td>30 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20060222_084957_000006702045_00222_20817_2189.N1 </td> <td>0 </td> <td>15 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060221_112842_000001842045_00209_20804_5812.N1 </td> <td>0 </td> <td>30 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060223_020555_000001282045_00232_20827_6045.N1 </td> <td>0 </td> <td>49 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060223_033632_000001462045_00233_20828_6056.N1 </td> <td>0 </td> <td>1 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
20790
20800
20810
20820
20830
20840
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
Orbit
0
10
20
30
40
50
20790
20800
20810
20820
20830
20840
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 : 2006-02-21 05:09:06 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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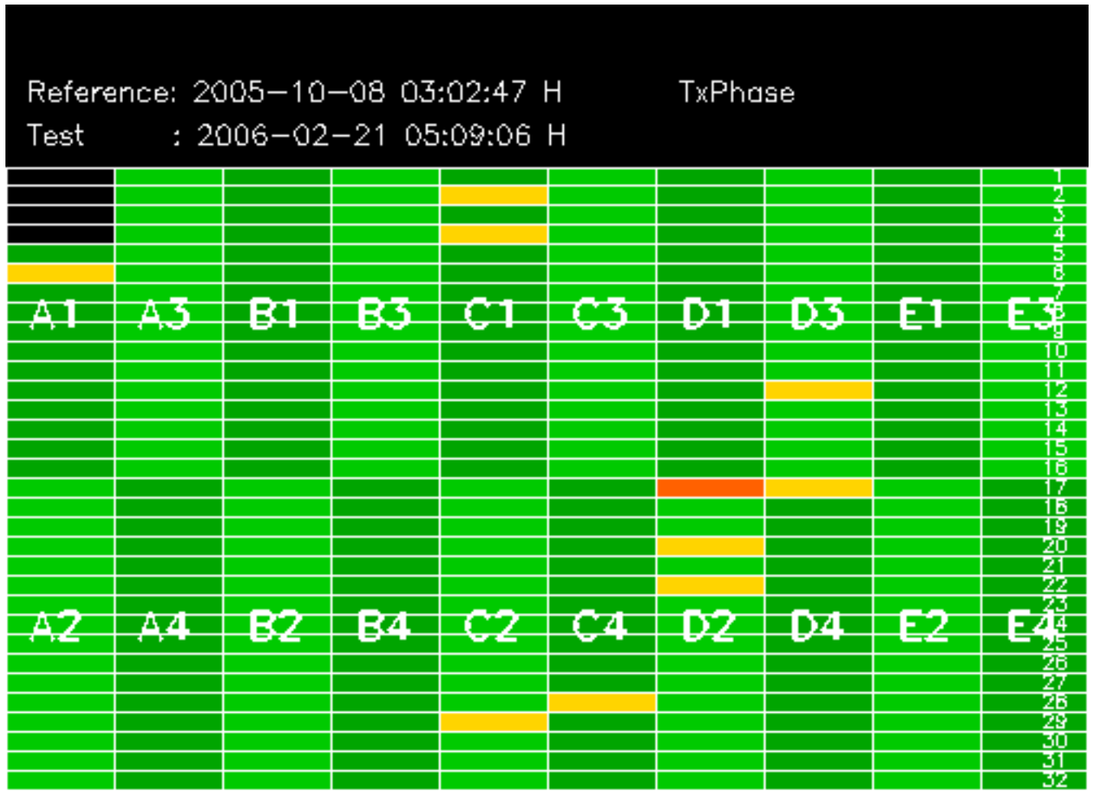
Reference: 2005-10-08 03:02:47 H
Test : 2006-02-21 05:09:06 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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Reference: 2001-02-09 14:08:23 V
Test : 2006-02-22 04:37:29 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-02-22 04:37:29 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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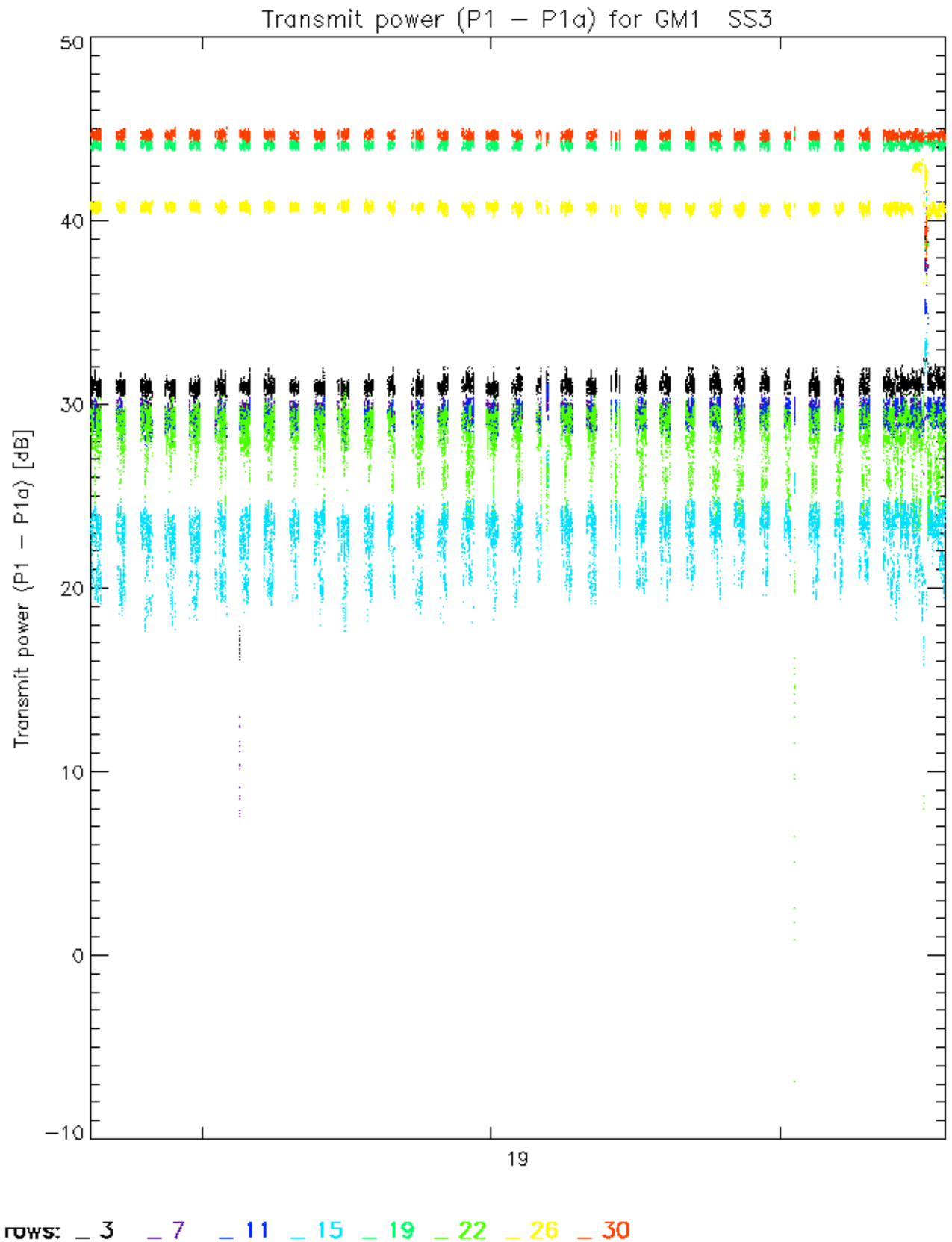
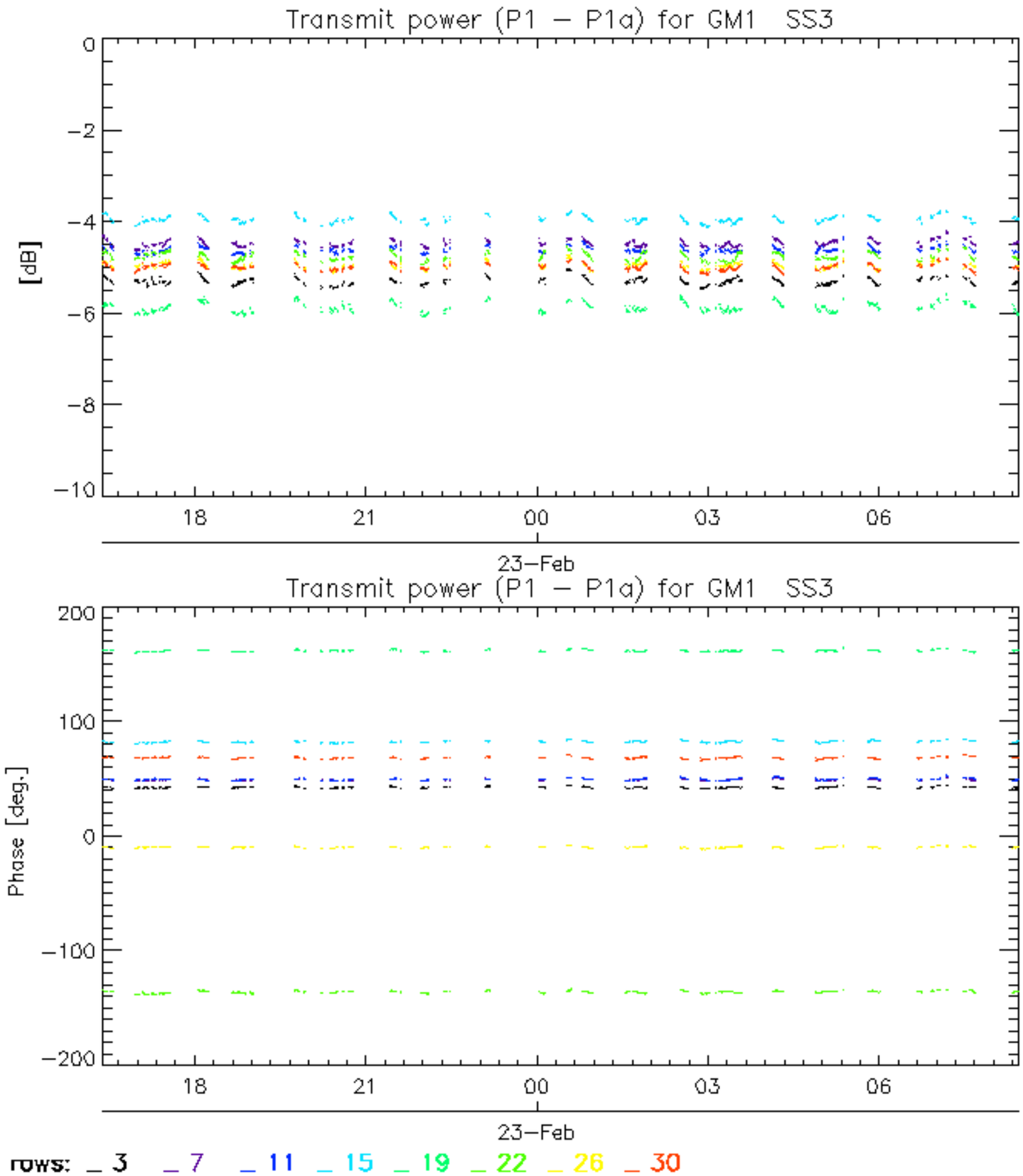
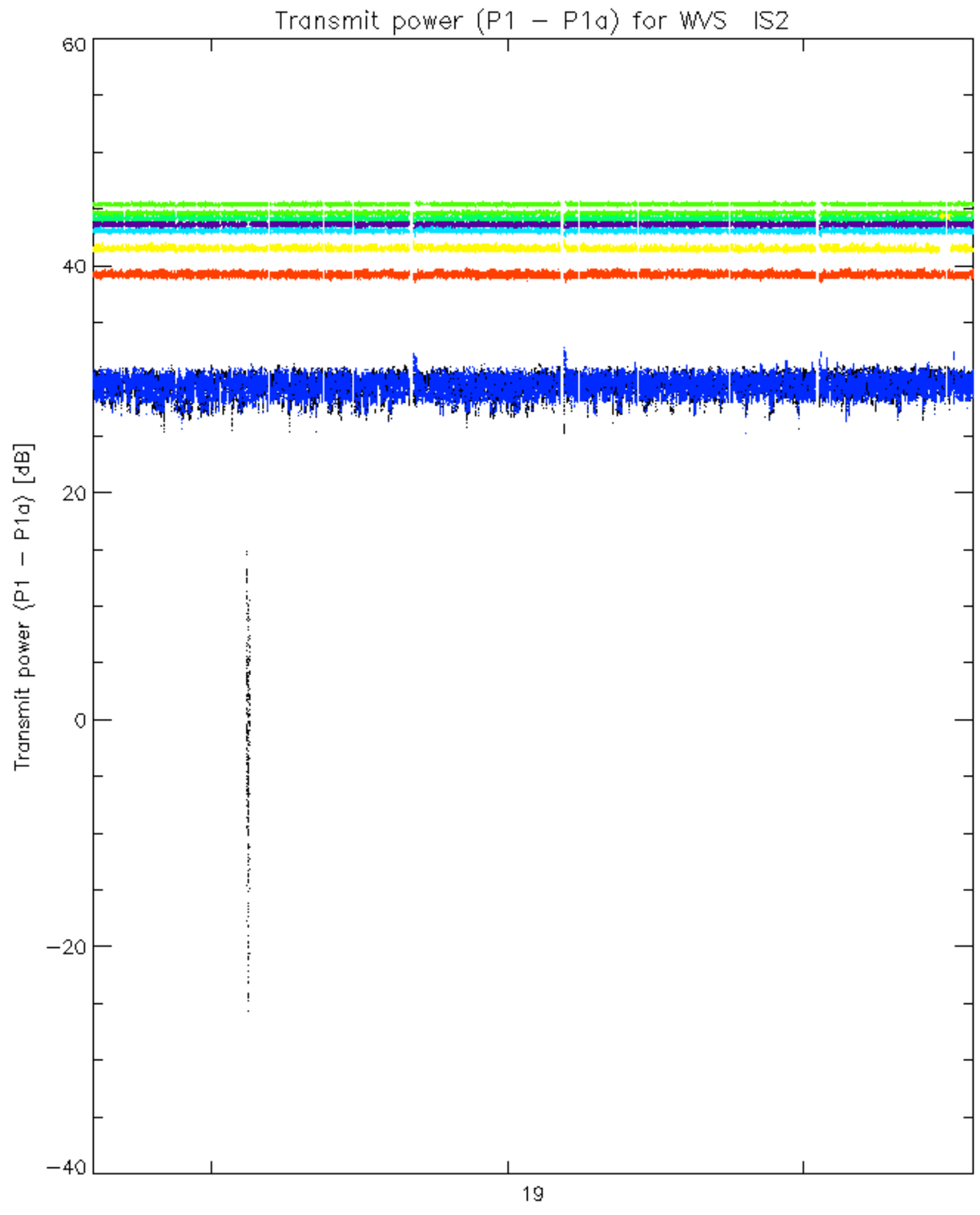
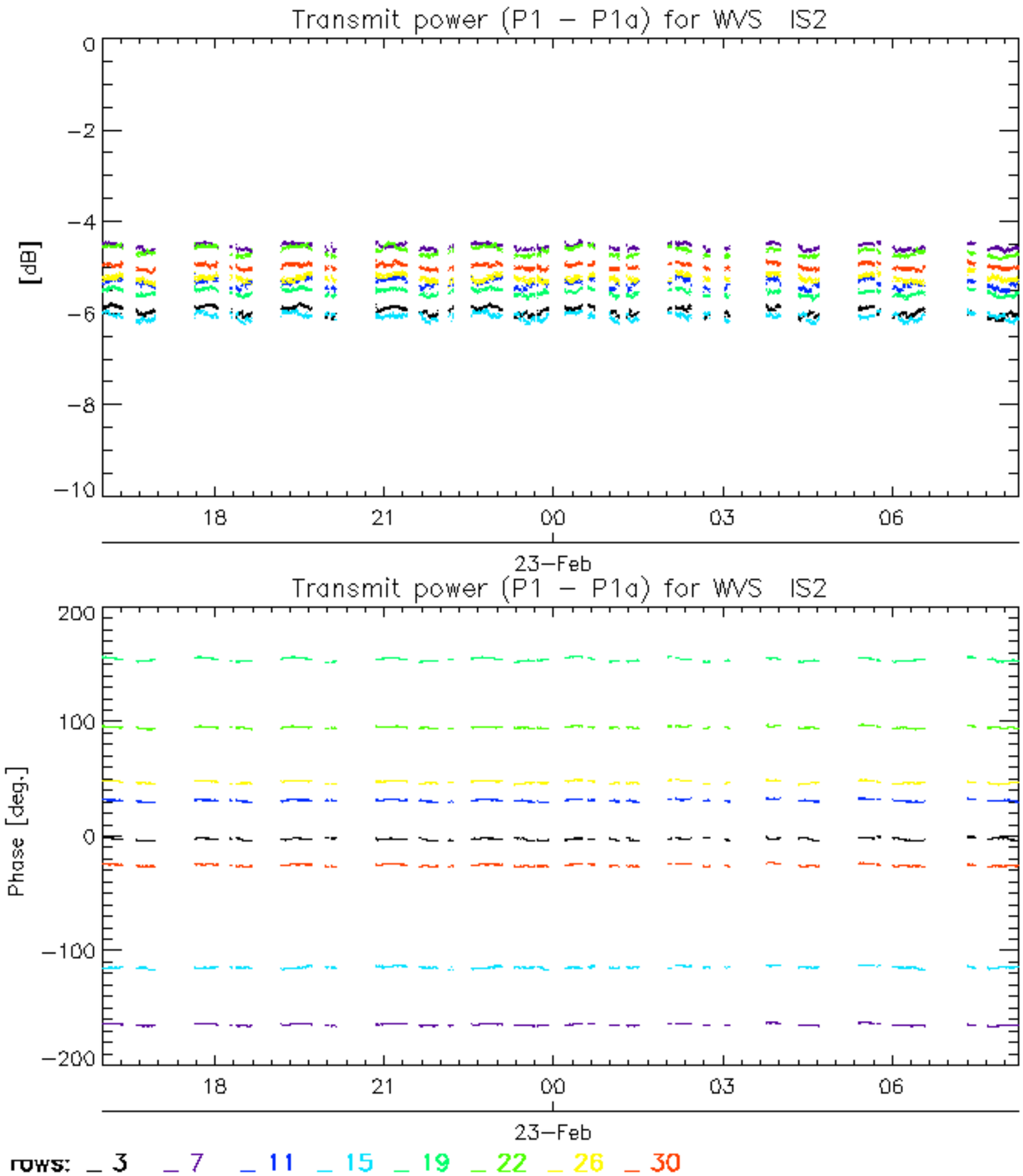

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
19
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
23–Feb
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
23–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
19
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
23–Feb
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
23–Feb
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.