PRELIMINARY REPORT OF 060205

last update on Sun Feb 5 16:39:43 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 2006-02-04 00:00:00 to 2006-02-05 16:39:43

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	43	0	8	0	25
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	43	0	8	0	25
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	43	0	8	0	25
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	43	0	8	0	25

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	48	48	44	14	36
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	48	48	44	14	36
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	48	48	44	14	36
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	48	48	44	14	36

2.3 - Browse Visual Inspection

2.4 - Data Analysis

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

3 - Module Stepping Mode

No anomalies observed on available MS products:

Polarisation	Start Time
V	20060204 204858
H	20060203 143811

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
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☒

4.1.2 - Evolution for GM1

Evolution of cal pulses for GM1
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☒

4.2 - Cyclic statistics

4.2.1 - Evolution for WVS

Evolution of cal pulses for WVS
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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	-4.021480	0.007867	0.052164
7	P1	-3.002159	0.013499	-0.018816
11	P1	-4.095076	0.022402	0.019284
15	P1	-6.060148	0.017419	0.007054
19	P1	-3.253278	0.006280	-0.017345
22	P1	-4.477591	0.019289	0.023173
26	P1	-4.202713	0.012982	0.040858
30	P1	-5.770865	0.010095	0.002193
3	P1	-16.917124	0.264838	0.119679
7	P1	-16.634466	0.126322	-0.123535
11	P1	-16.601522	0.298381	-0.025023
15	P1	-13.202729	0.112993	0.111207
19	P1	-13.888280	0.072681	-0.027981
22	P1	-15.841864	0.567312	0.218694
26	P1	-15.764876	0.248647	0.051653
30	P1	-16.591131	0.321735	-0.000153

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.578035	0.093380	0.136236
7	P2	-22.450684	0.096963	0.101431
11	P2	-16.284786	0.103095	0.093226
15	P2	-7.203269	0.103941	0.047952
19	P2	-9.165845	0.098046	0.025373
22	P2	-17.941040	0.094164	-0.020672
26	P2	-16.216143	0.101592	0.006116
30	P2	-19.645529	0.084351	0.025860

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.206950	0.007316	0.023467
7	P3	-8.206950	0.007316	0.023467
11	P3	-8.206950	0.007316	0.023467
15	P3	-8.206950	0.007316	0.023467
19	P3	-8.206950	0.007316	0.023467
22	P3	-8.206950	0.007316	0.023467
26	P3	-8.206950	0.007316	0.023467
30	P3	-8.206950	0.007316	0.023467

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	-3.727753	0.011021	-0.035370
7	P1	-2.745177	0.007624	0.015316
11	P1	-2.871673	0.011817	-0.056370
15	P1	-3.477176	0.019513	-0.082682
19	P1	-3.378400	0.012332	-0.028131
22	P1	-5.130814	0.021536	-0.075191
26	P1	-5.851433	0.016306	-0.000422
30	P1	-5.238794	0.028473	0.024365
3	P1	-11.530631	0.039166	-0.040094
7	P1	-9.918820	0.048233	-0.024326
11	P1	-10.099764	0.050562	-0.145761
15	P1	-10.640884	0.091052	-0.104069
19	P1	-15.465471	0.060709	0.018008
22	P1	-20.522427	1.252008	0.385799
26	P1	-16.717466	0.342716	0.417553
30	P1	-18.183779	0.327628	-0.146197

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.373972	0.034254	0.183715
7	P2	-22.810898	0.065530	0.190445
11	P2	-11.401802	0.021736	0.113259
15	P2	-4.900208	0.026755	0.048713
19	P2	-6.906185	0.023123	0.023733
22	P2	-8.187986	0.023609	-0.007650
26	P2	-23.959324	0.025106	0.005909
30	P2	-22.089464	0.018851	-0.001037

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.045563	0.002522	0.028764
7	P3	-8.045403	0.002523	0.028062
11	P3	-8.045449	0.002521	0.029021
15	P3	-8.045545	0.002535	0.028657
19	P3	-8.045567	0.002524	0.028916
22	P3	-8.045507	0.002518	0.028381
26	P3	-8.045513	0.002518	0.028097
30	P3	-8.045526	0.002533	0.028794

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

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4.3.2 - Evolution for GM1

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5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000566174
	stdev	1.64306e-07
MEAN Q	mean	0.000526889
	stdev	2.10970e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.139880
	stdev	0.00116108
STDEV Q	mean	0.140241
	stdev	0.00118059

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006020[345]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20060205_022547_000000362044_00476_20570_2062.N1	1	0
ASA_IMM_1PNPDK20060203_083342_000000502044_00451_20545_0626.N1	0	2
ASA_WSM_1PNPDE20060203_151324_000001292044_00455_20549_3596.N1	0	60
ASA_WSM_1PNPDE20060203_183519_000002252044_00457_20551_3602.N1	0	76
ASA_WSM_1PNPDE20060204_033233_000002132044_00462_20556_3632.N1	0	1
ASA_WSM_1PNPDE20060204_162501_000002452044_00470_20564_3708.N1	0	20

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

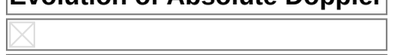
Evolution of unbiased Doppler error (Real - Expected)

Acsending

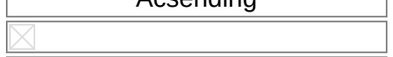
Descending

7.5 - Absolute Doppler for GM1

Evolution of Absolute Doppler



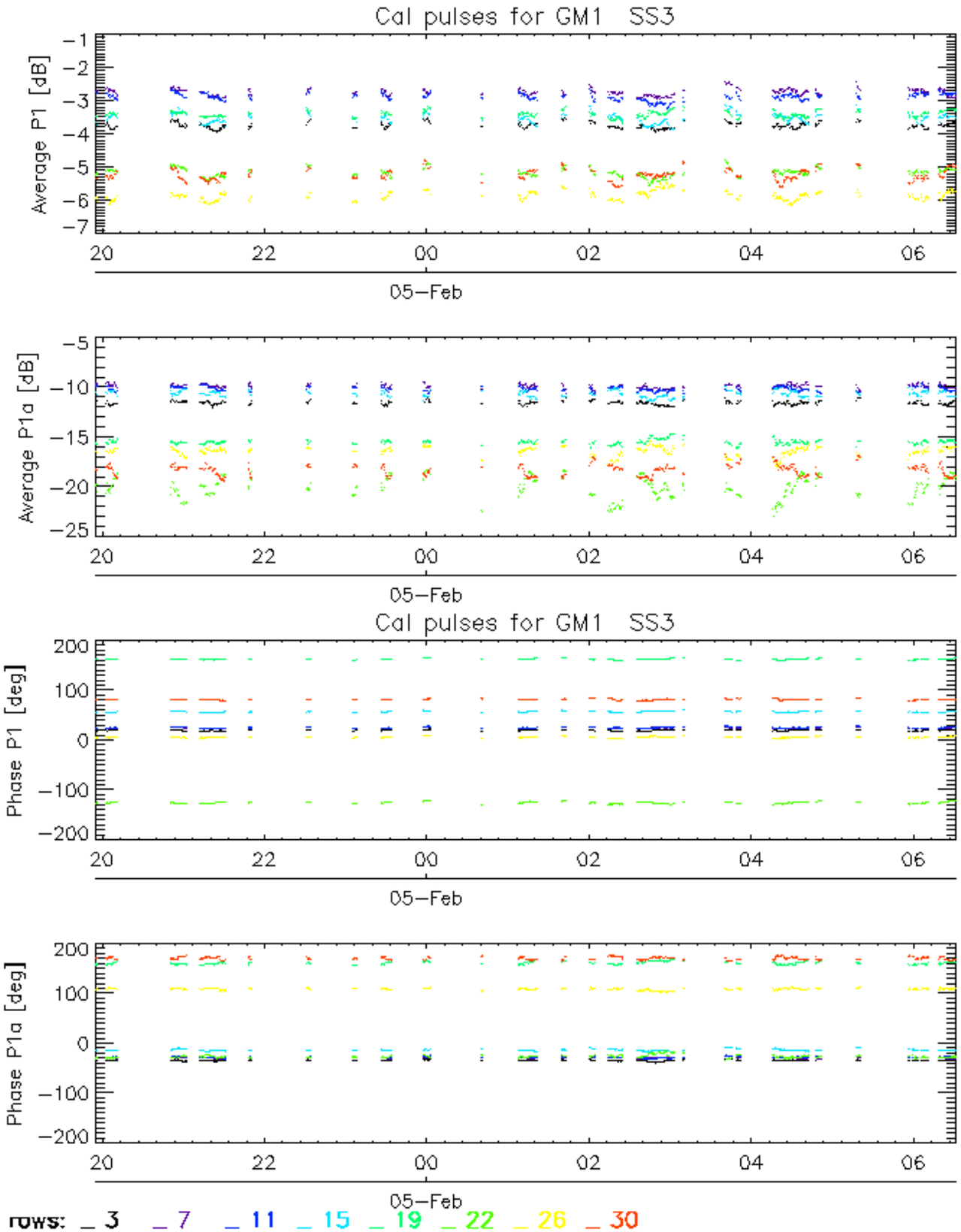
Acsending

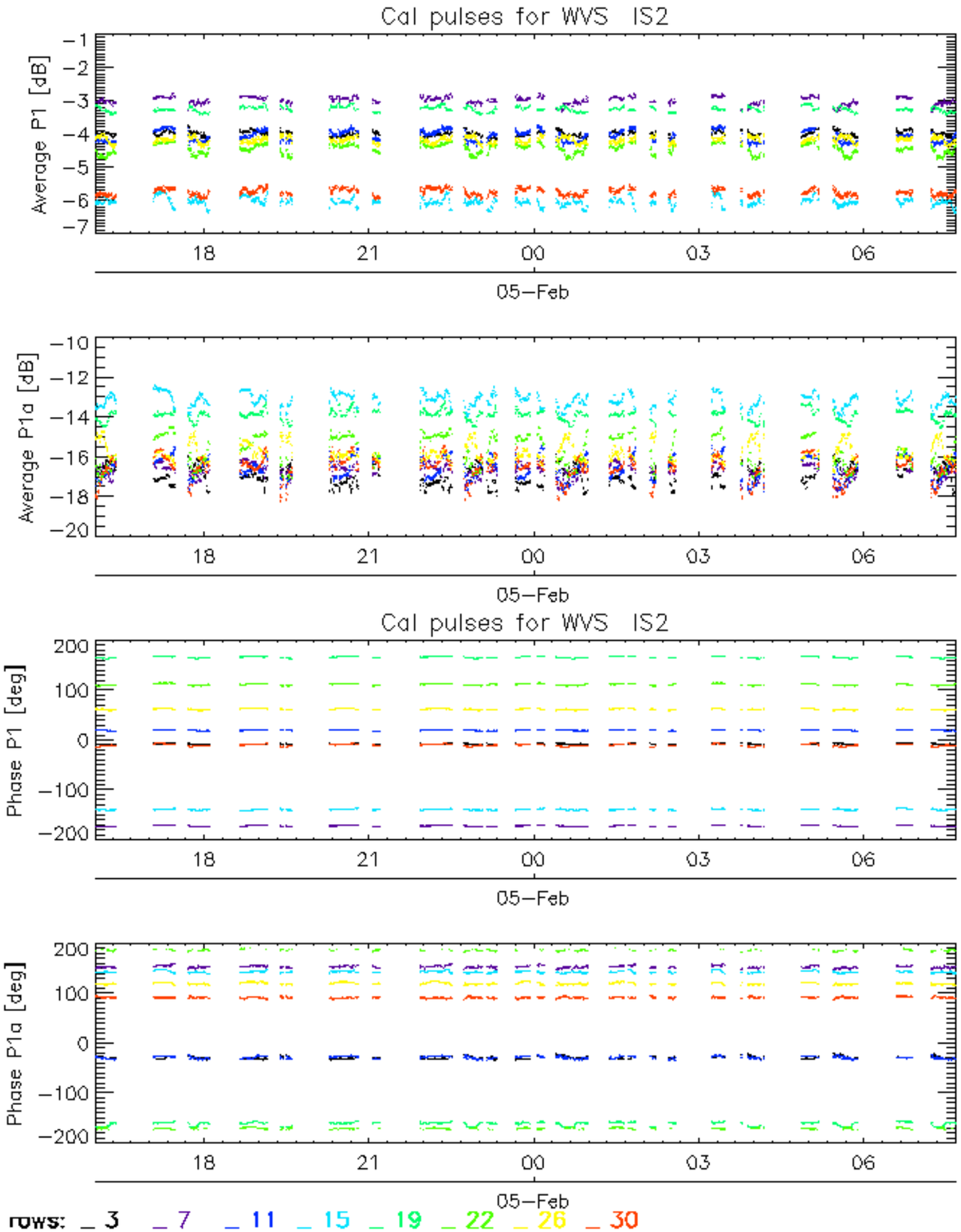


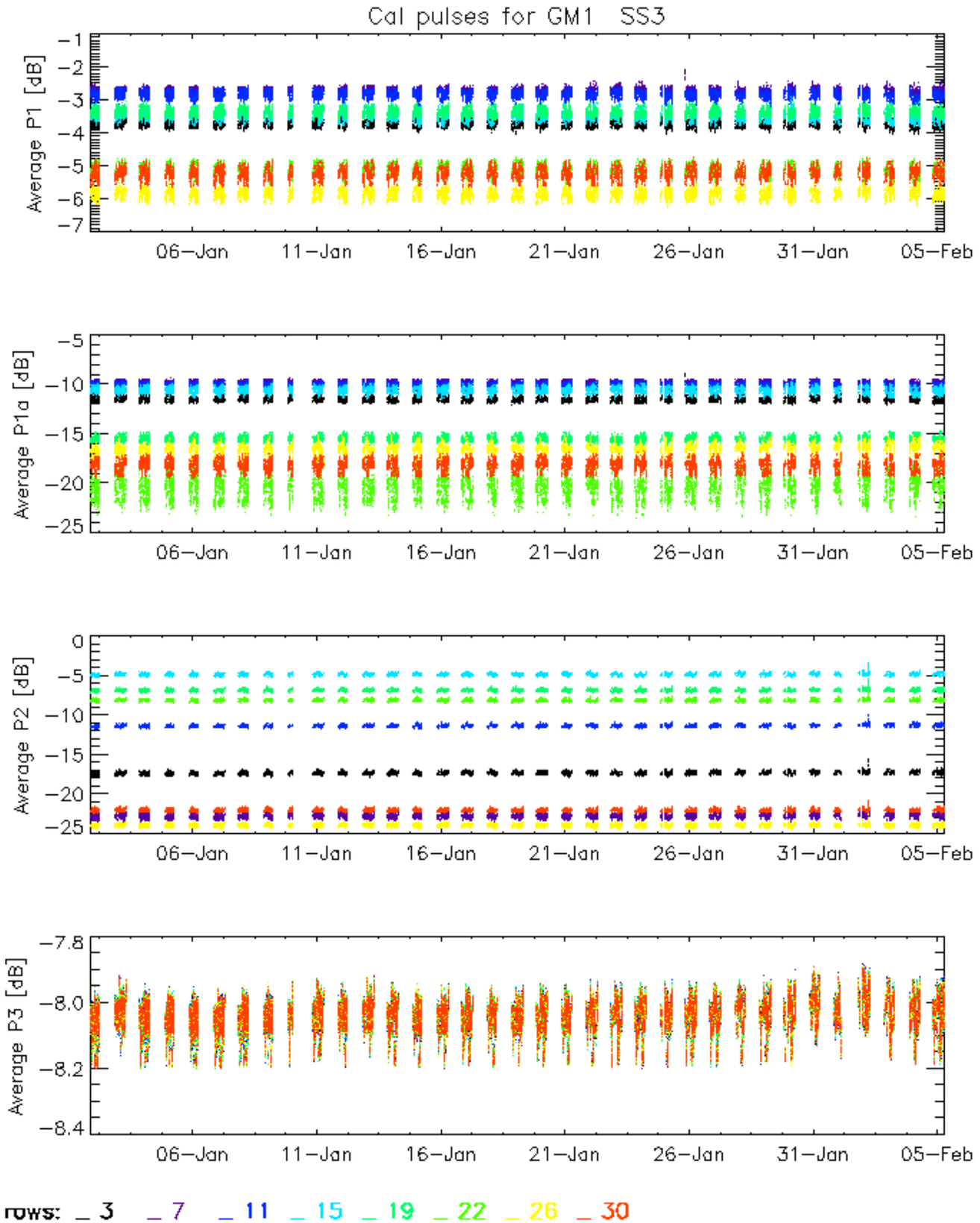
Descending

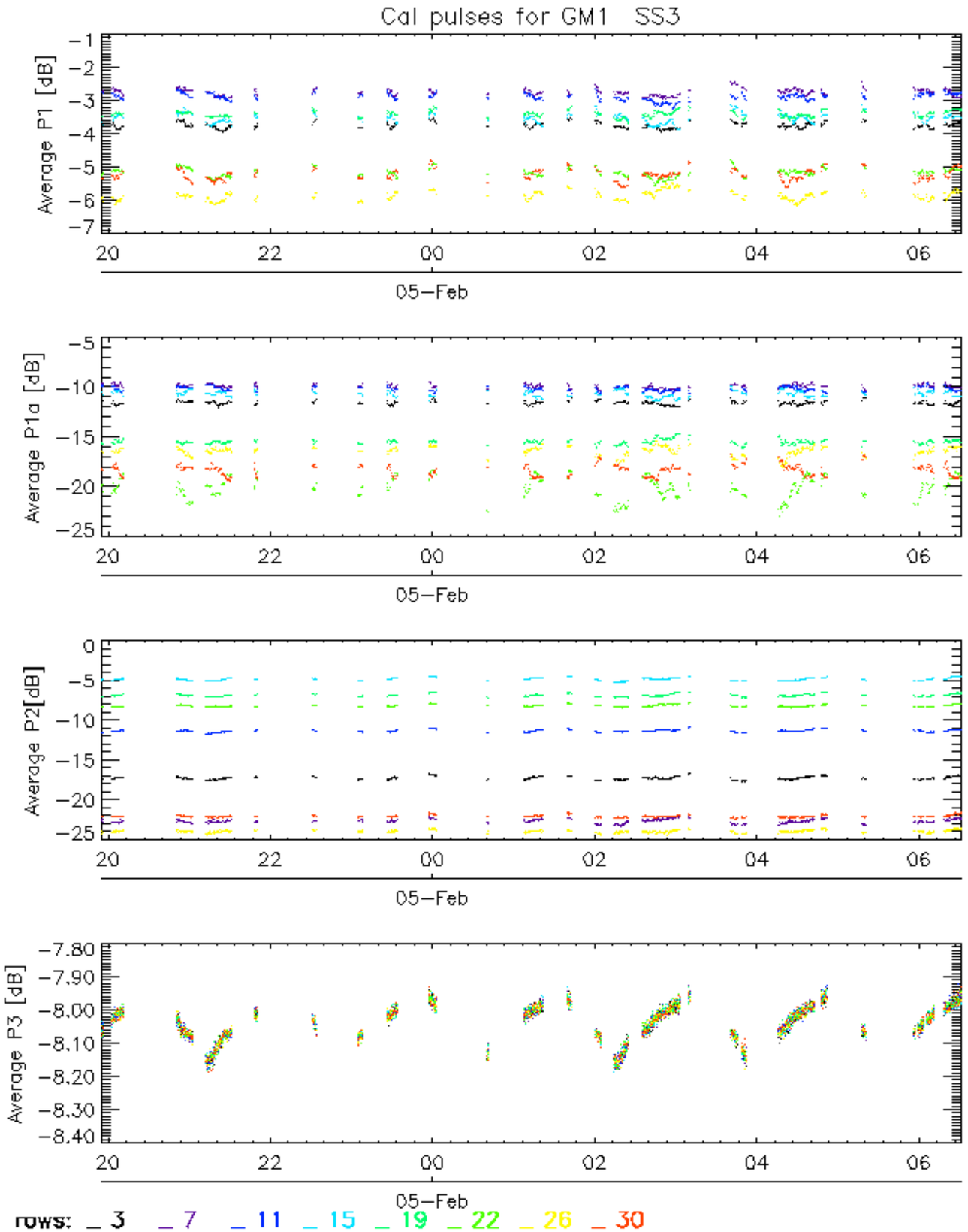
7.6 - Doppler evolution versus ANX for GM1

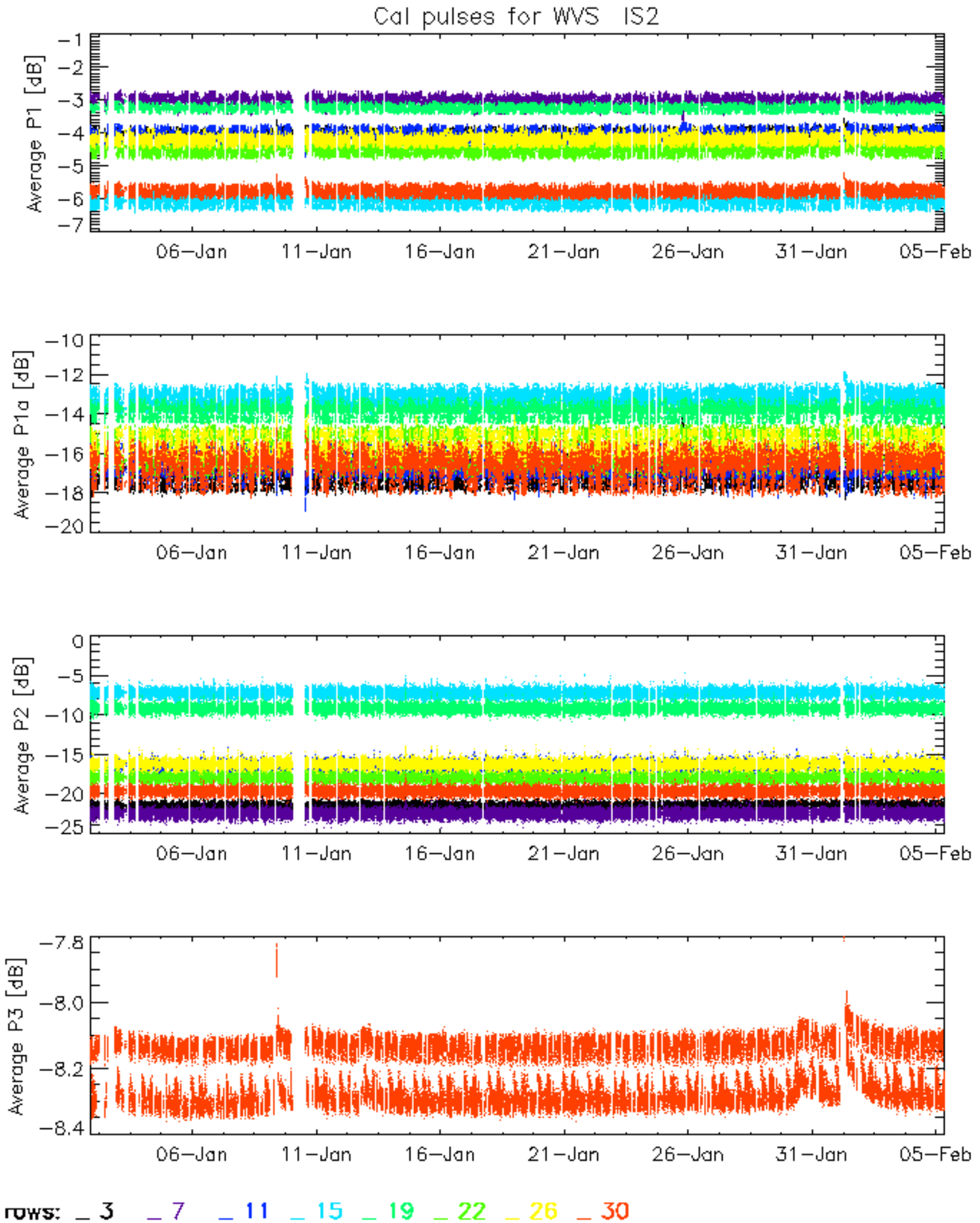
Evolution Doppler error versus ANX

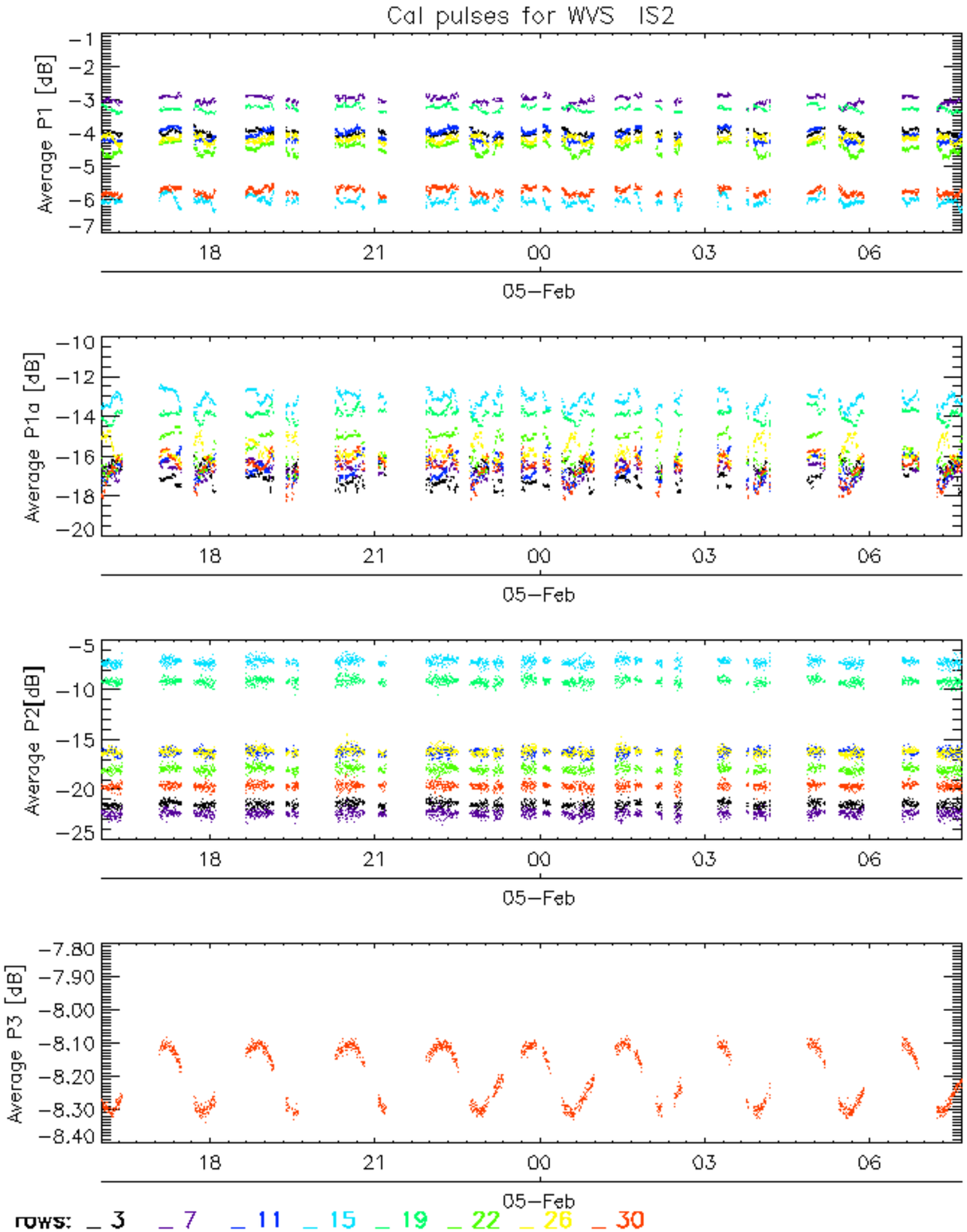

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
20
22
00
02
04
06
05−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
20
22
00
02
04
06
05−Feb
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
20
22
00
02
04
06
05−Feb
Phase P1a [deg]
200
100
0
−100
−200
20
22
00
02
04
06
05−Feb
rows: 3 7 11 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
05−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
05−Feb
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
05−Feb
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
05−Feb
rows: 3 7 11 15 19 22 26 30

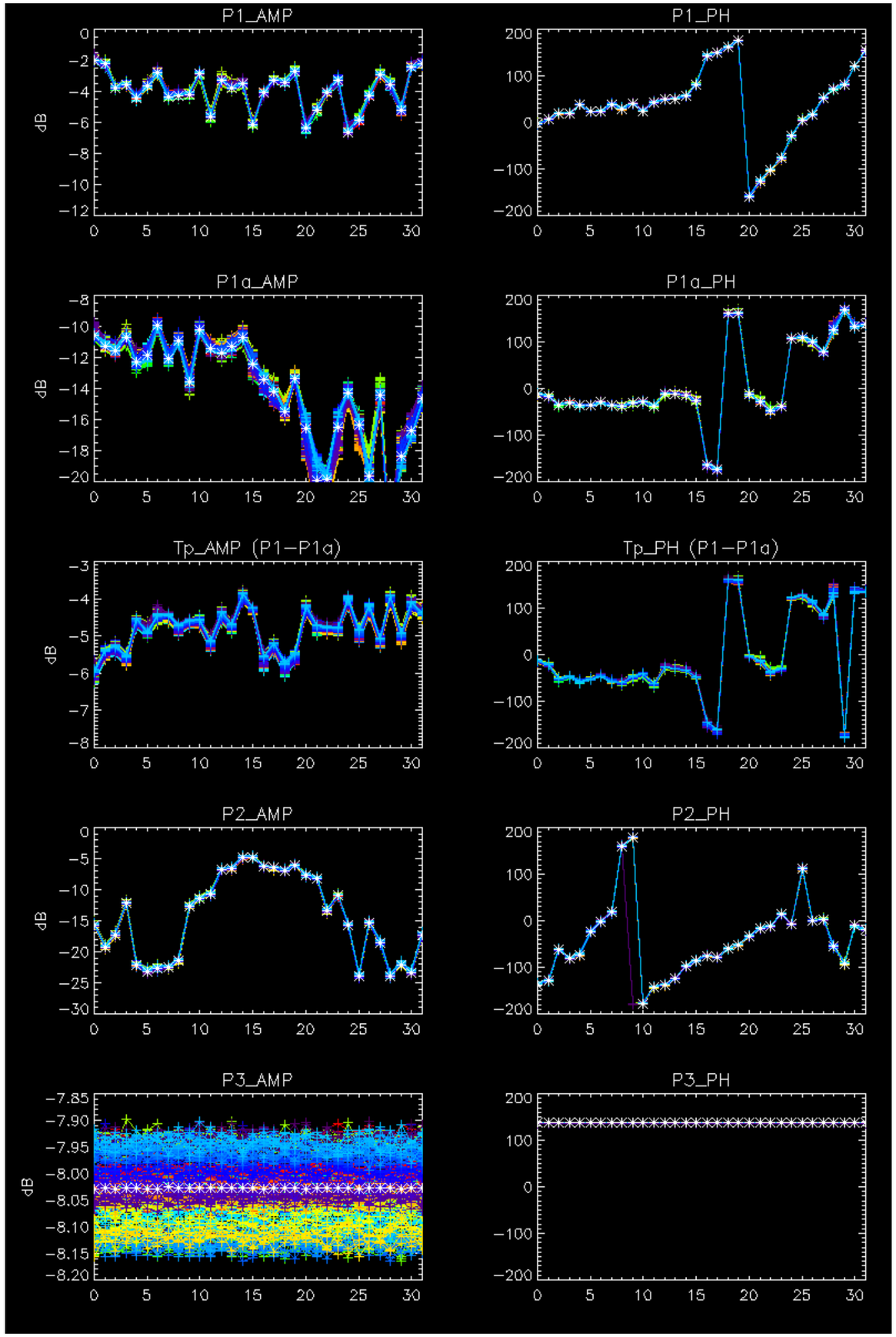

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
06−Jan
11−Jan
16−Jan
21−Jan
26−Jan
31−Jan
05−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
0
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

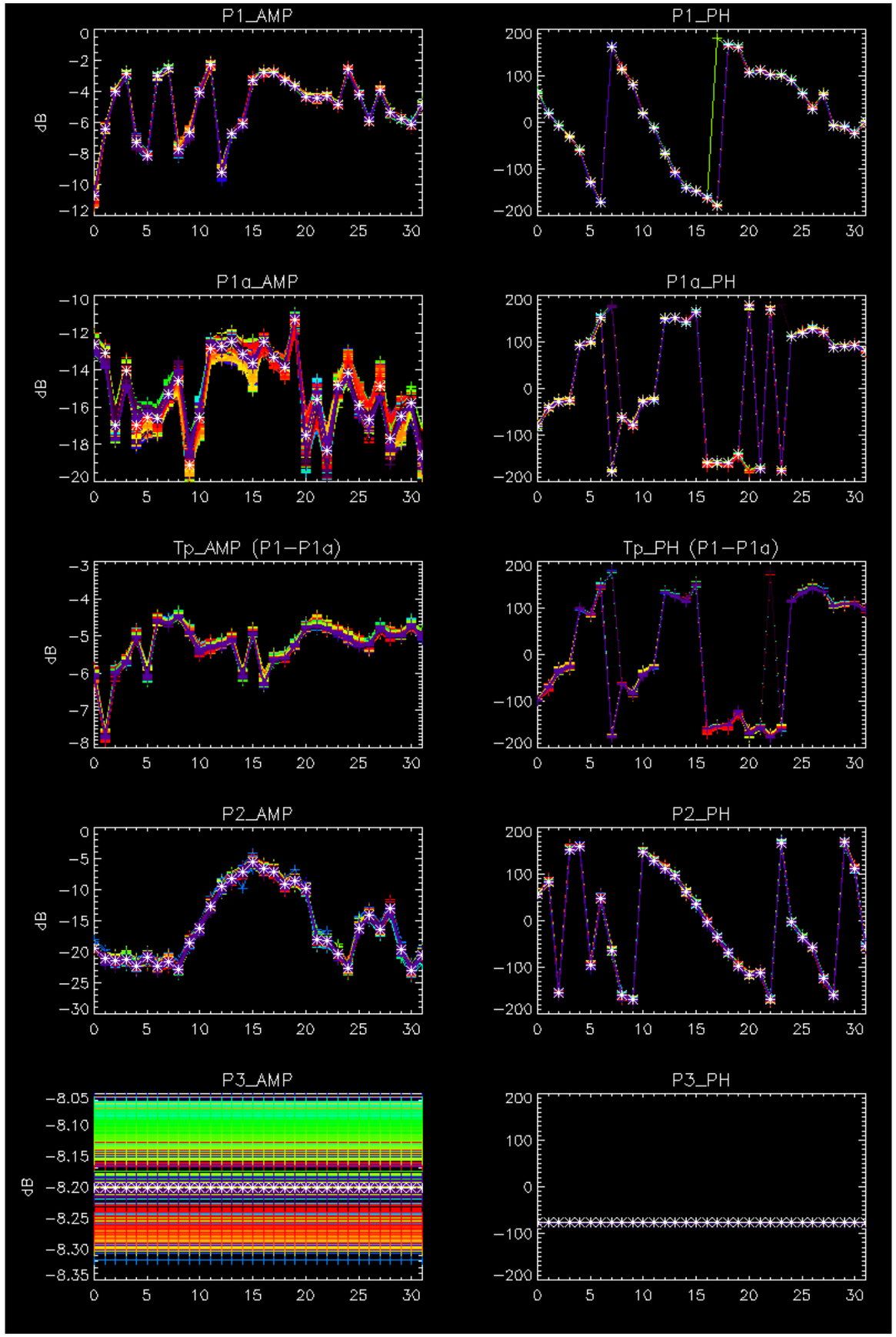

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
20
22
00
02
04
06
05−Feb
Average P1a [dB]
−5
−10
−15
−20
−25
20
22
00
02
04
06
05−Feb
Average P2[dB]
0
−5
−10
−15
−20
−25
20
22
00
02
04
06
05−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
20
22
00
02
04
06
05−Feb
rows: _ 3 _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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
06−Jan
11−Jan
16−Jan
21−Jan
26−Jan
31−Jan
05−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
05−Feb
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
05−Feb
Average P2[dB]
−5
−10
−15
−20
−25
18
21
00
03
06
05−Feb
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
05−Feb
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

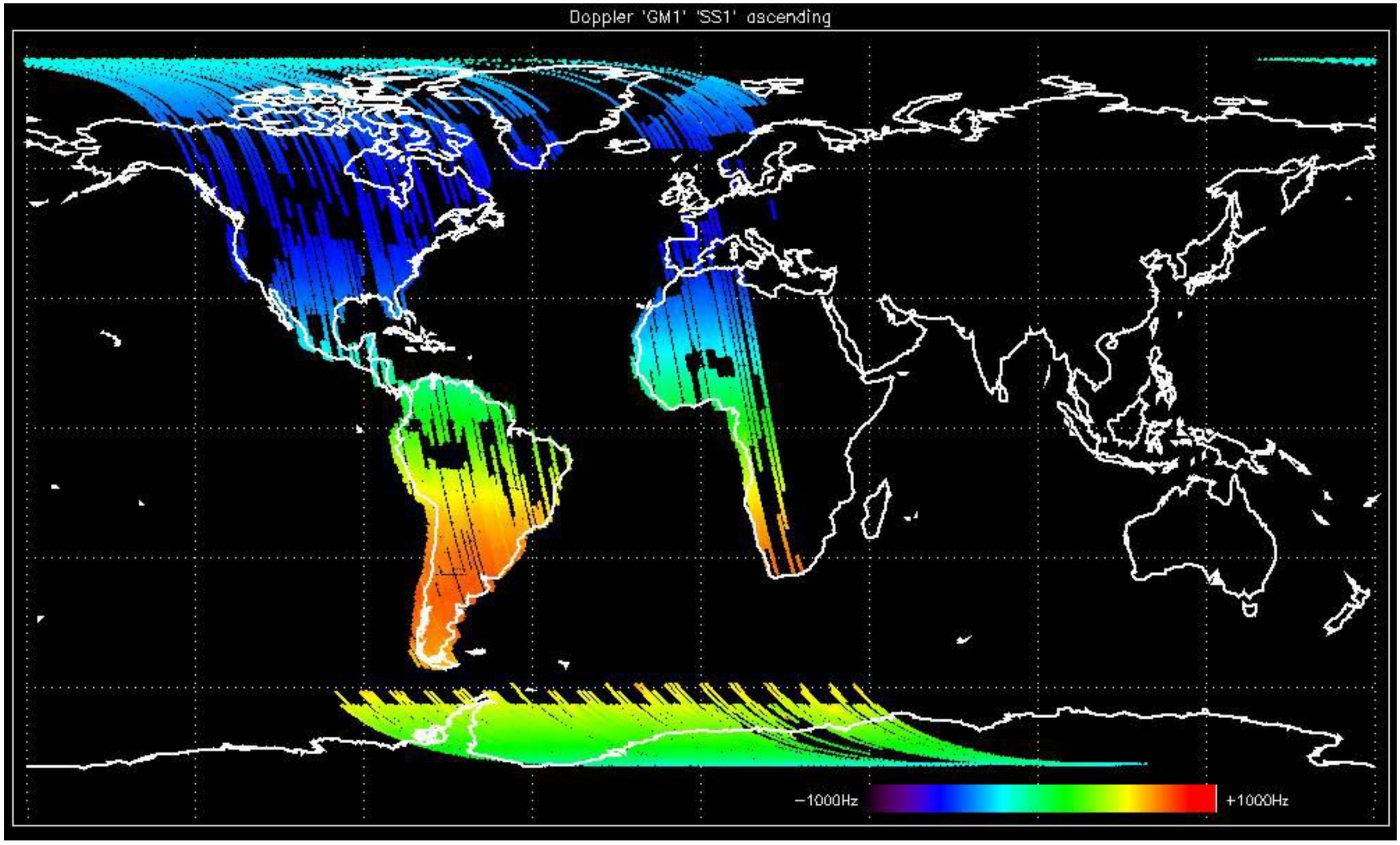
No anomalies observed.

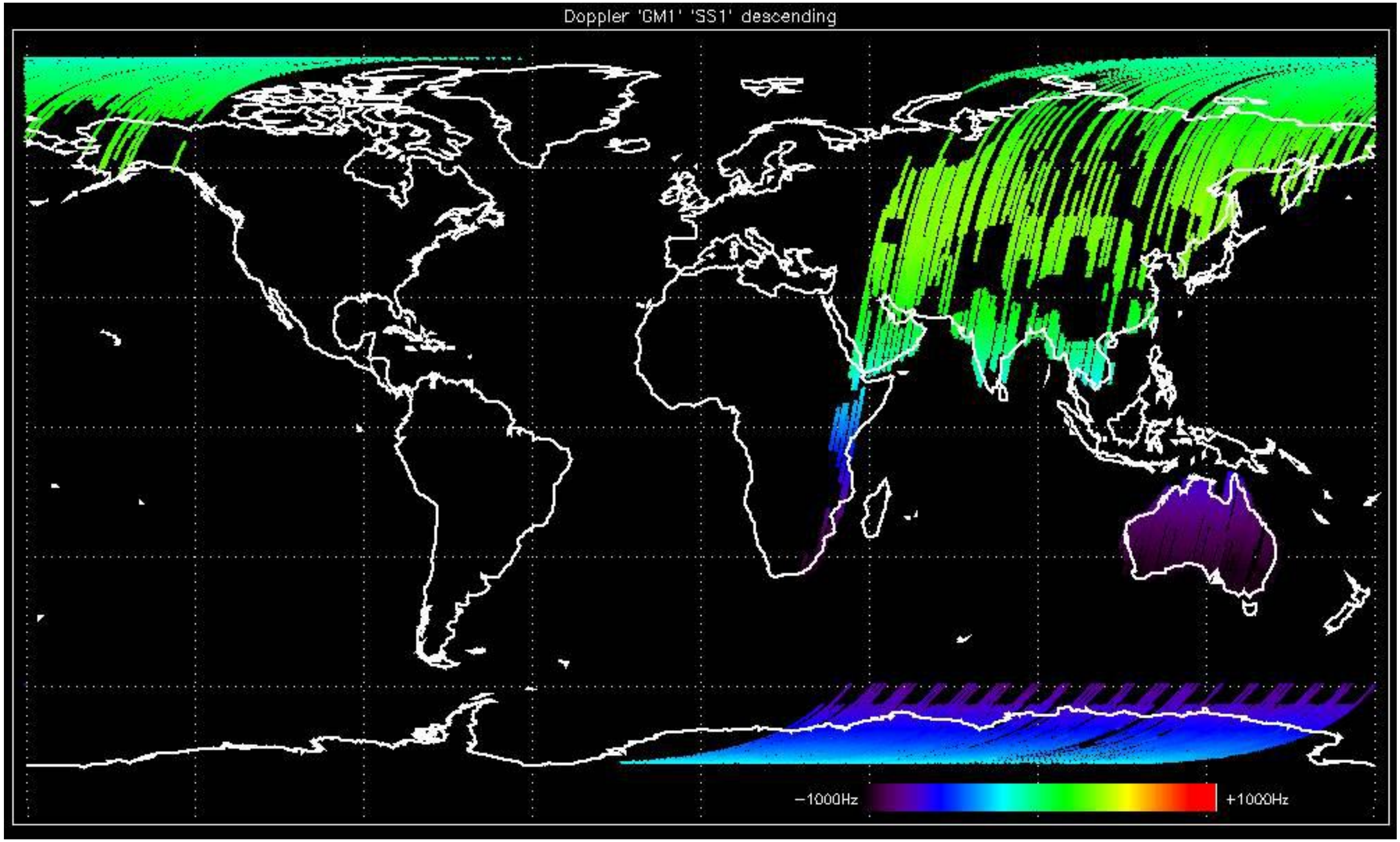

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

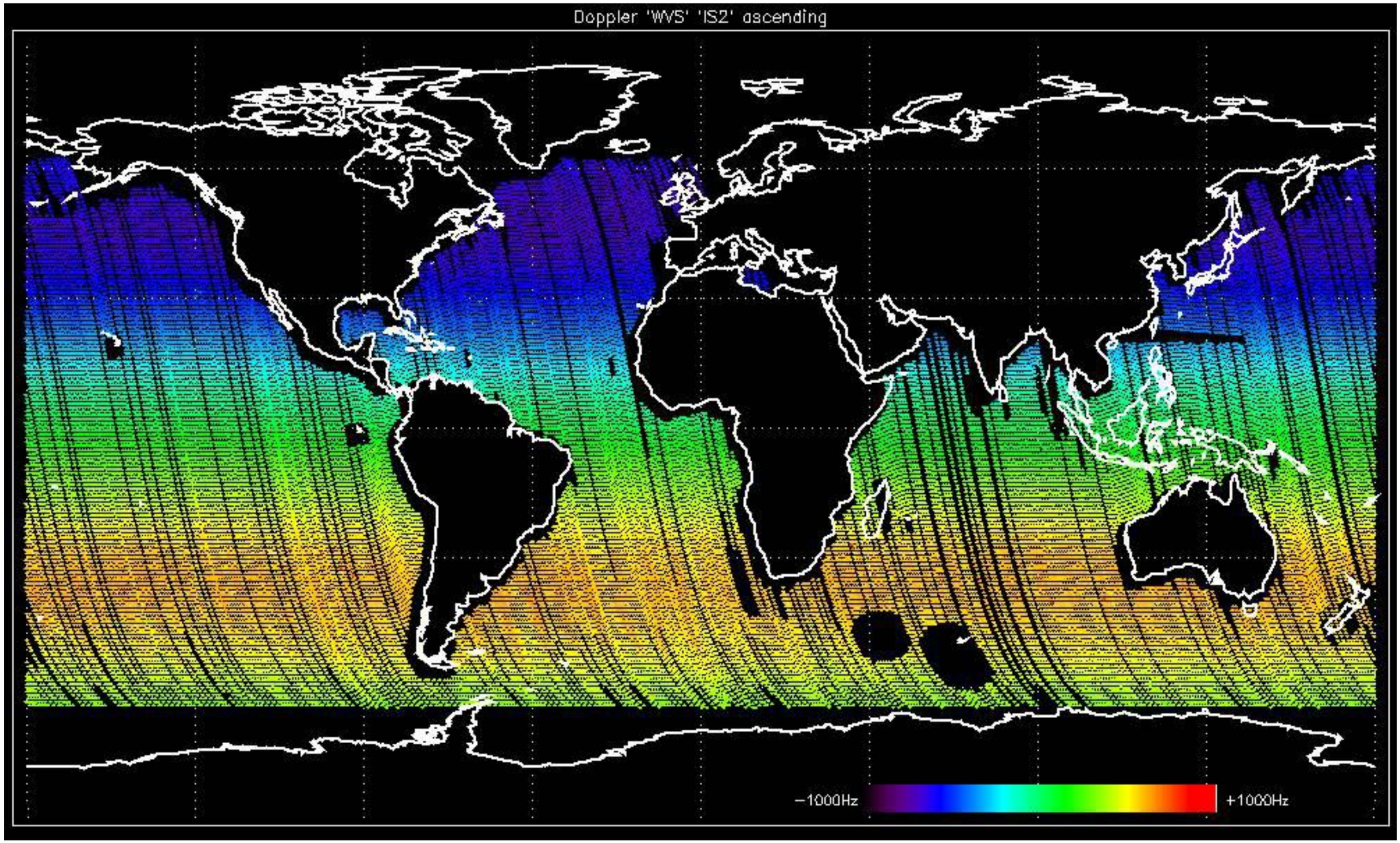

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

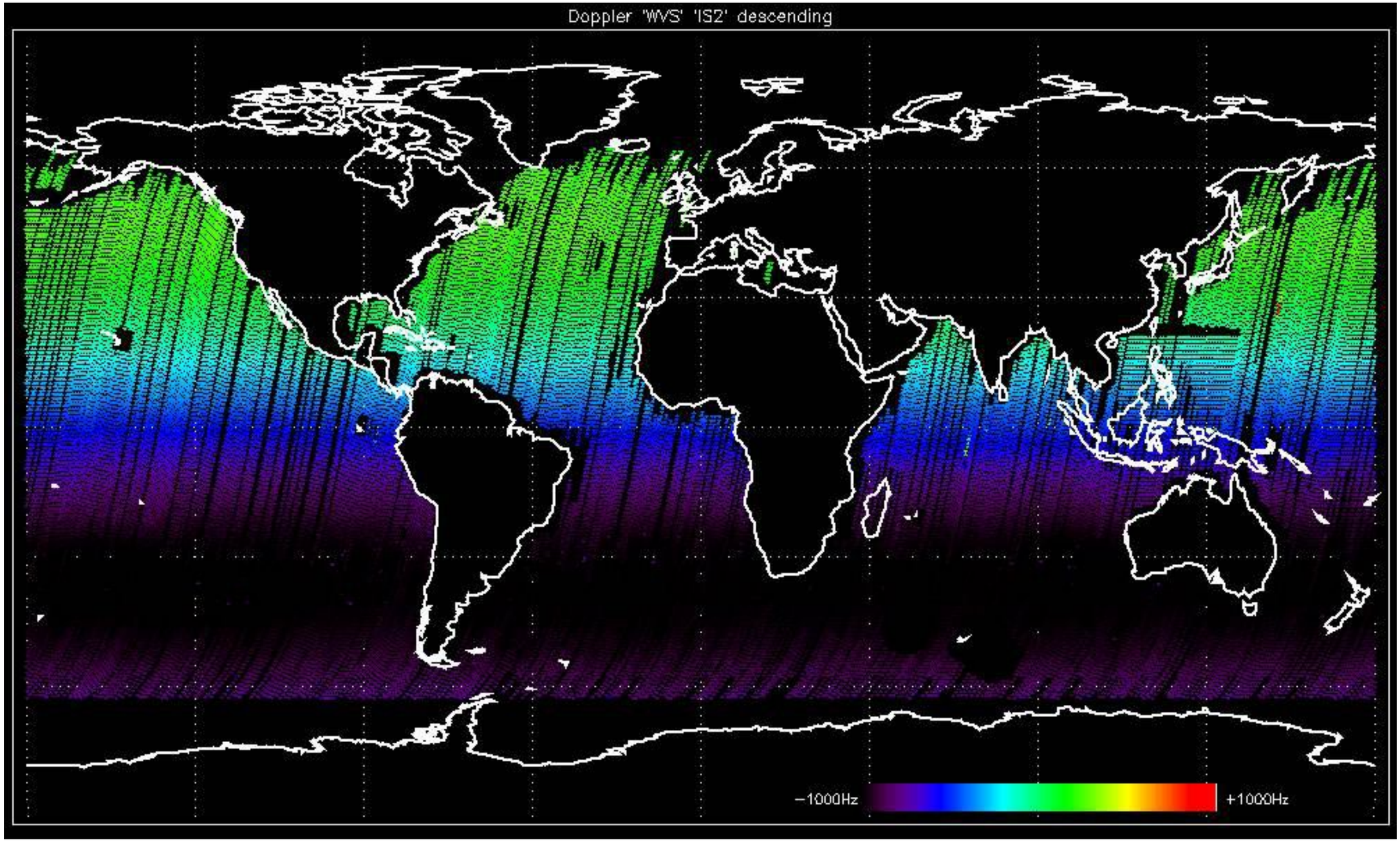
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

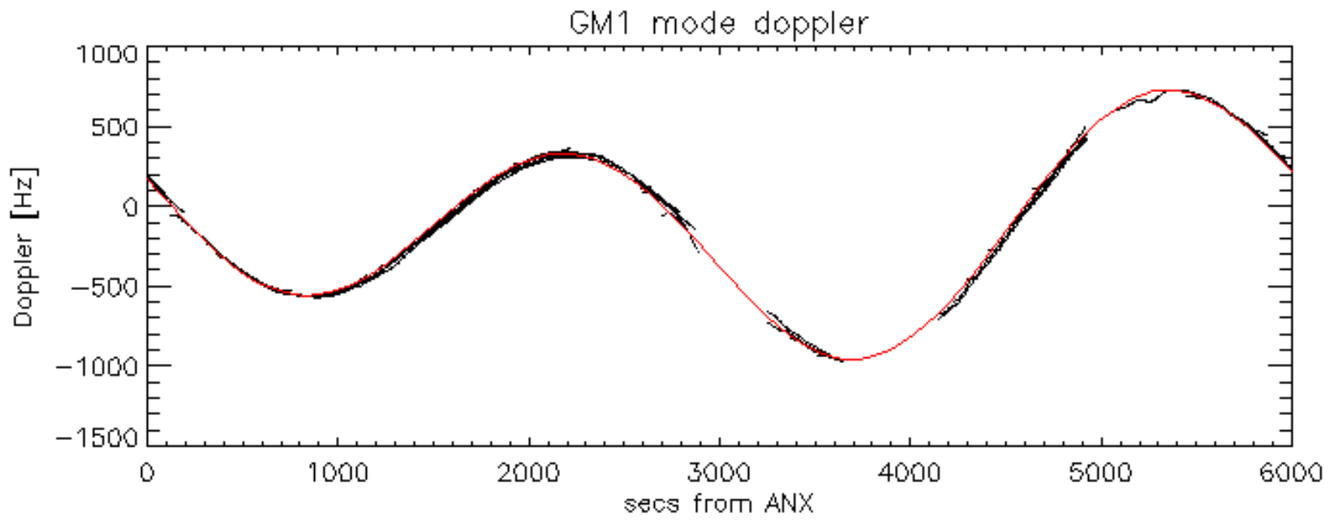
Preliminary report.The data is not yet controled

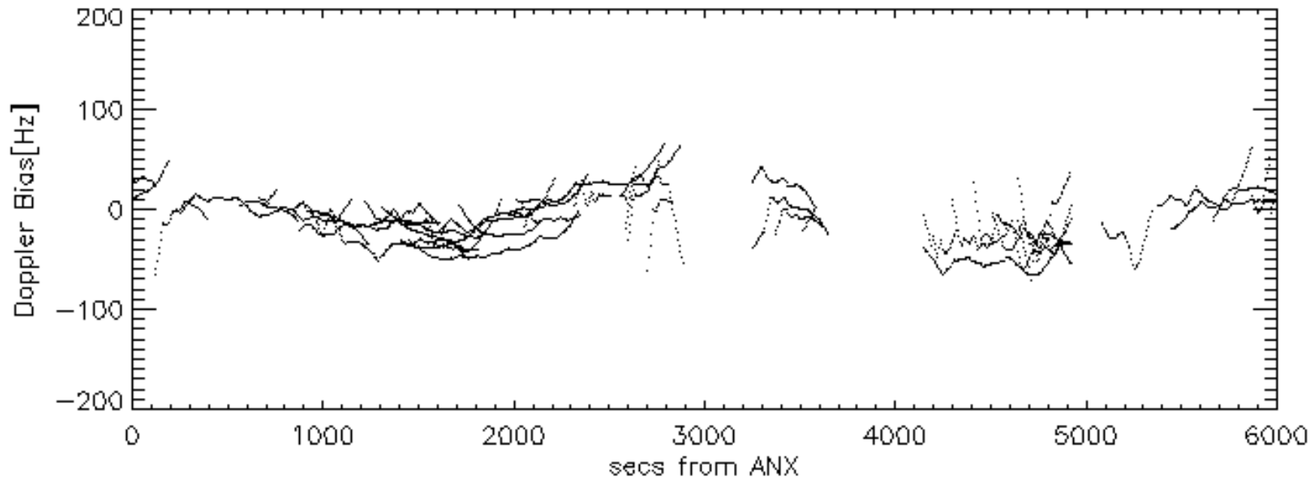

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

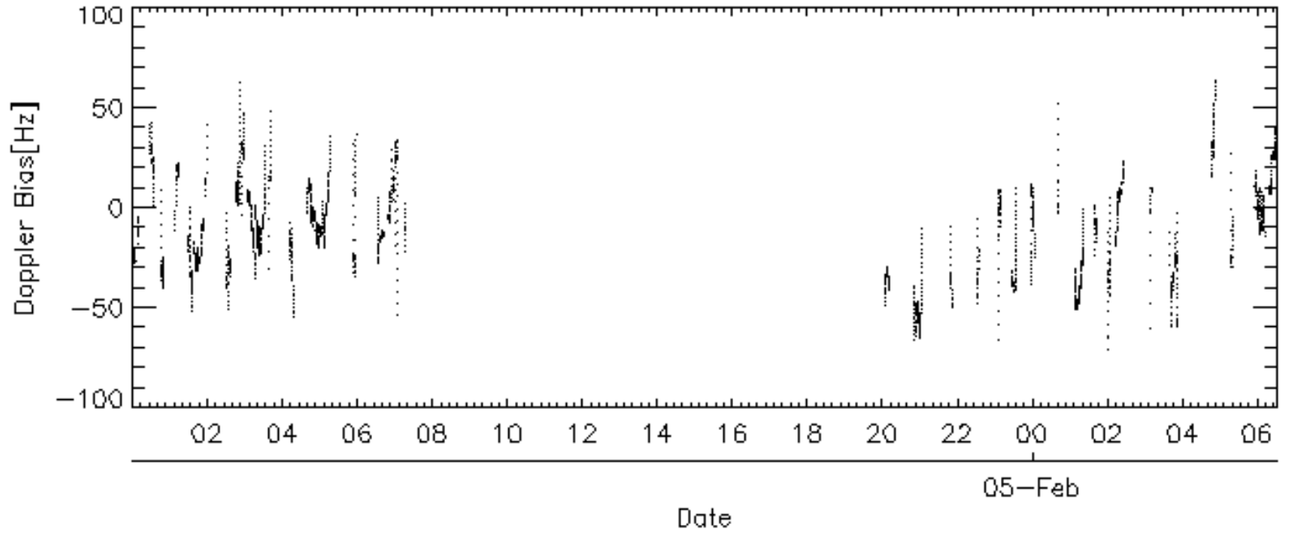

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

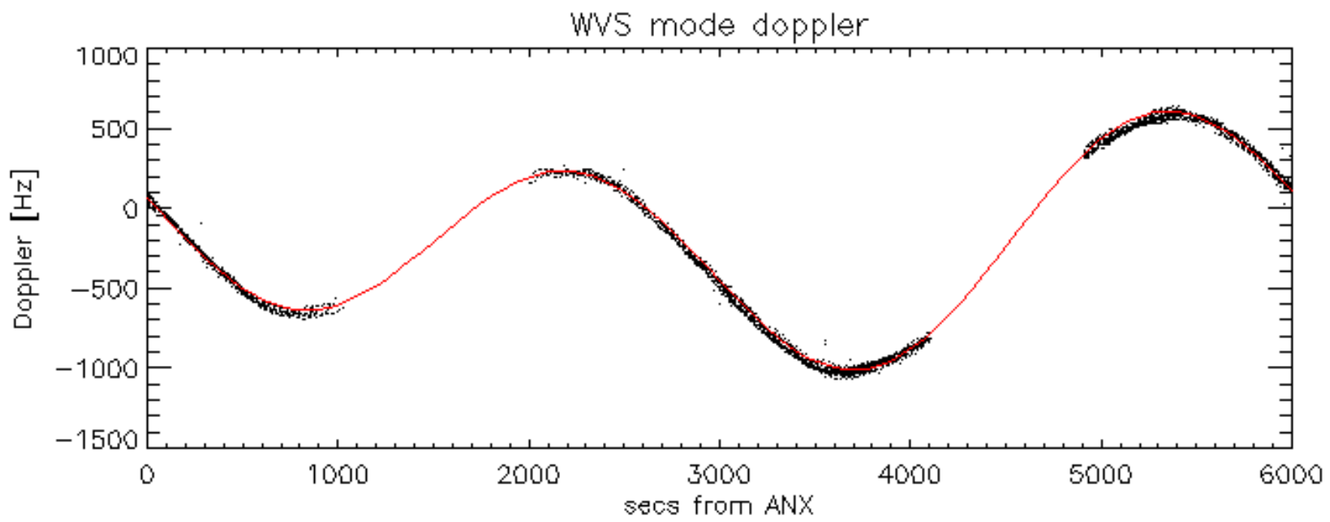

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

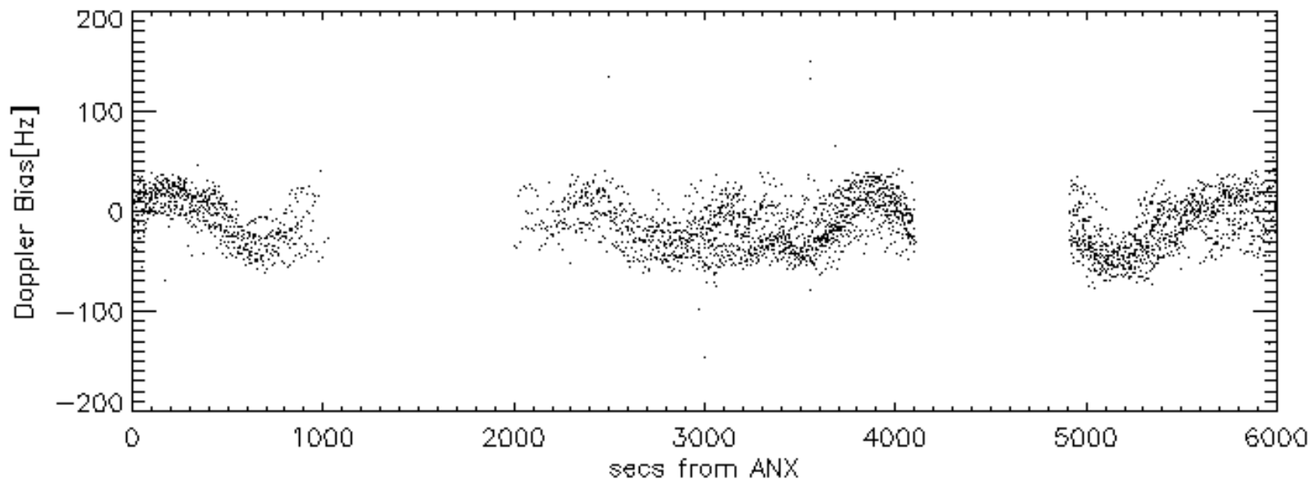

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

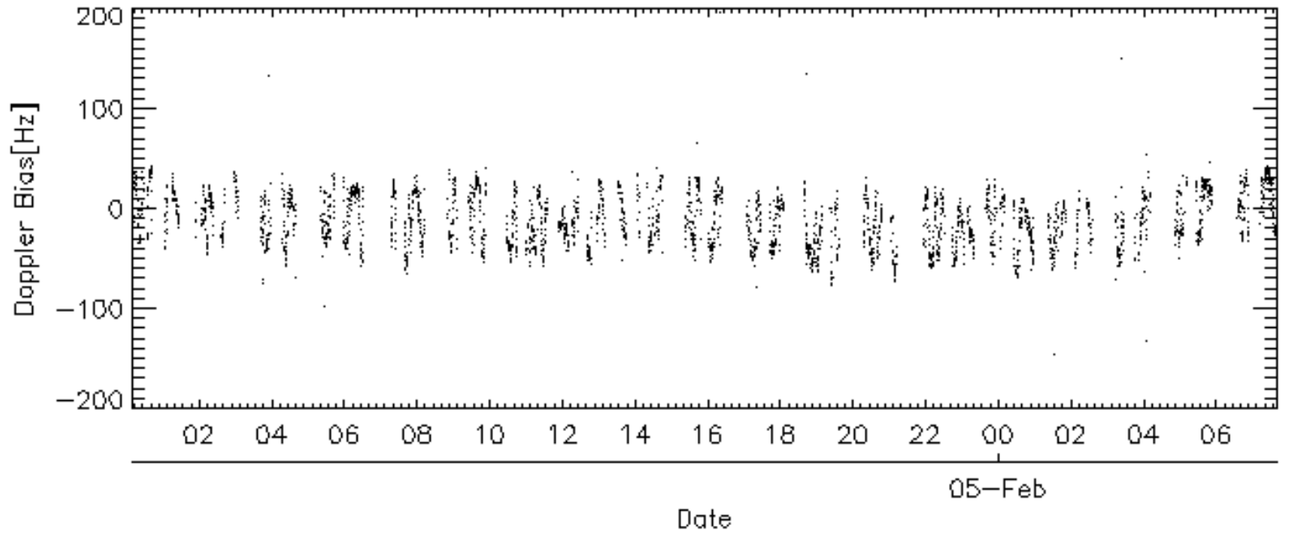

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

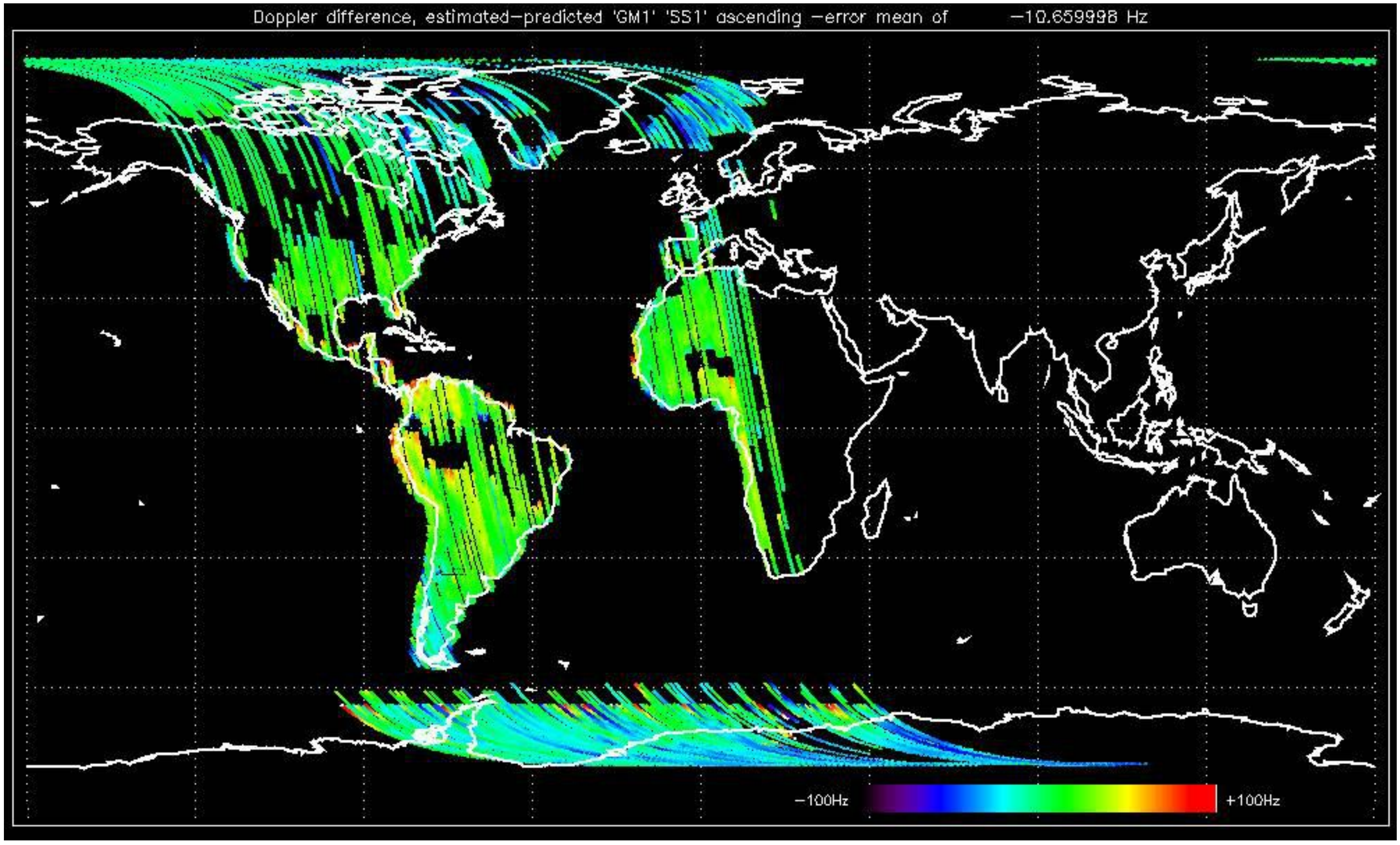

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

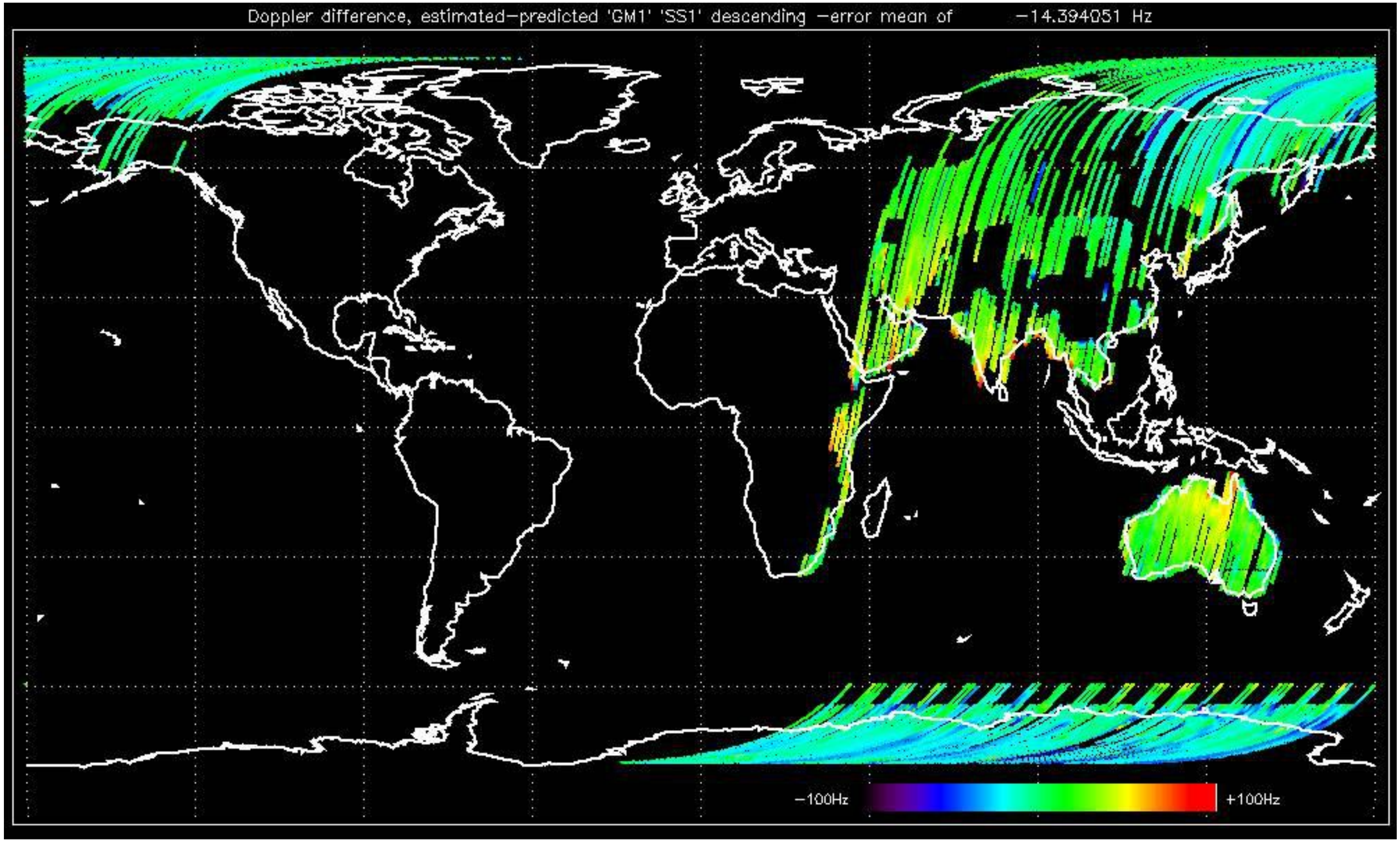

Doppler Bias[Hz]
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
05−Feb
Date

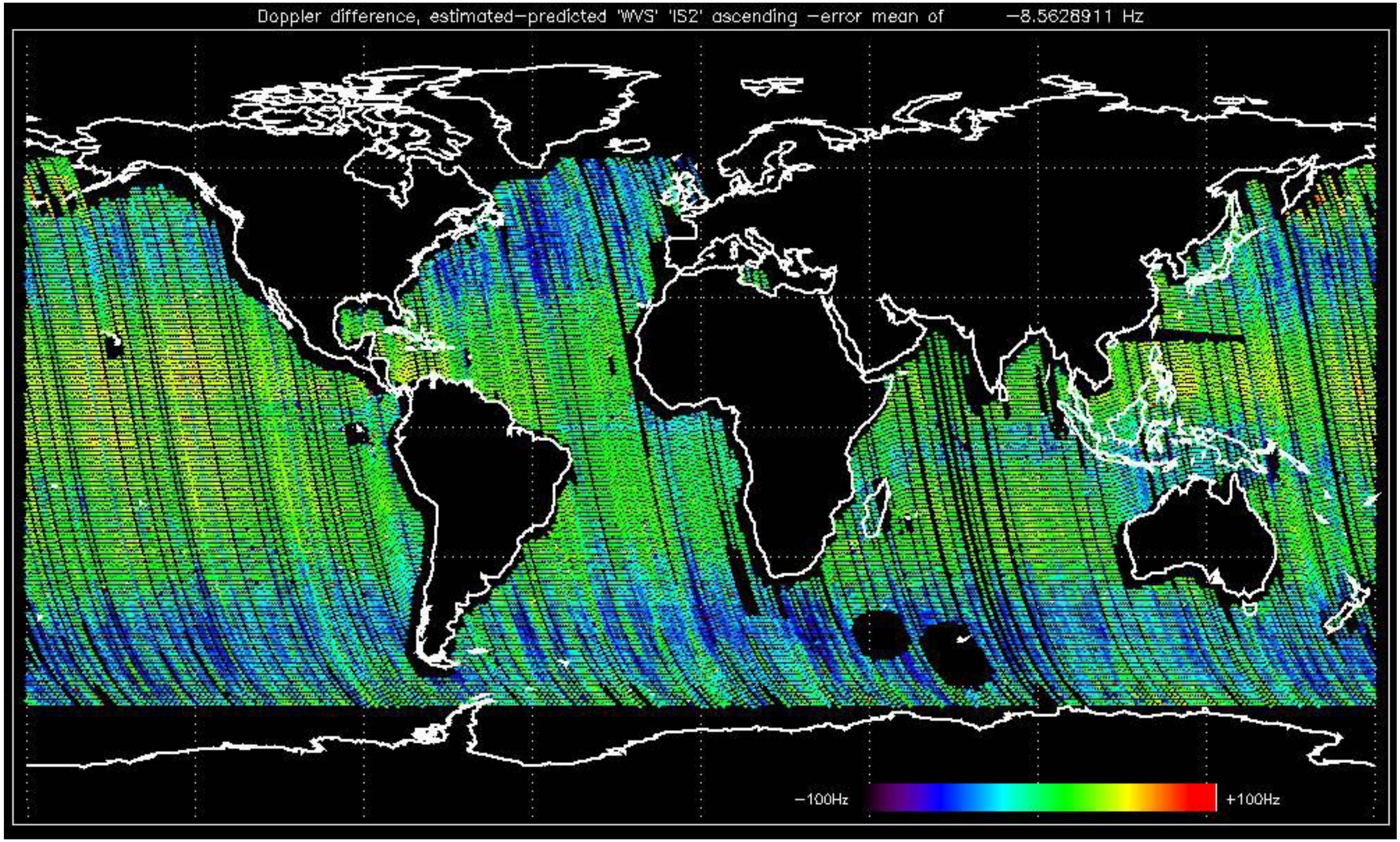

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

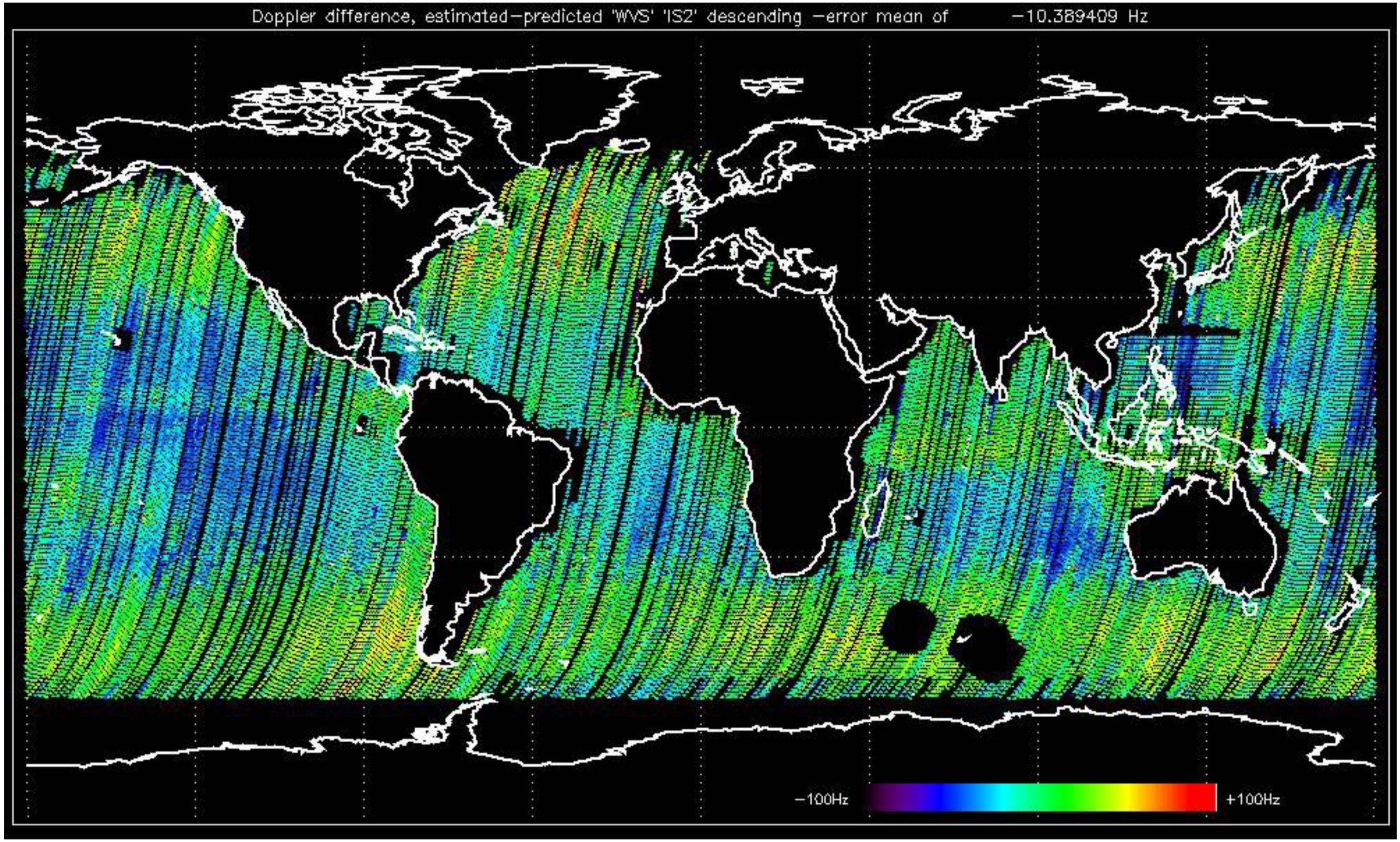

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −10.659998 Hz
−100Hz
+100Hz

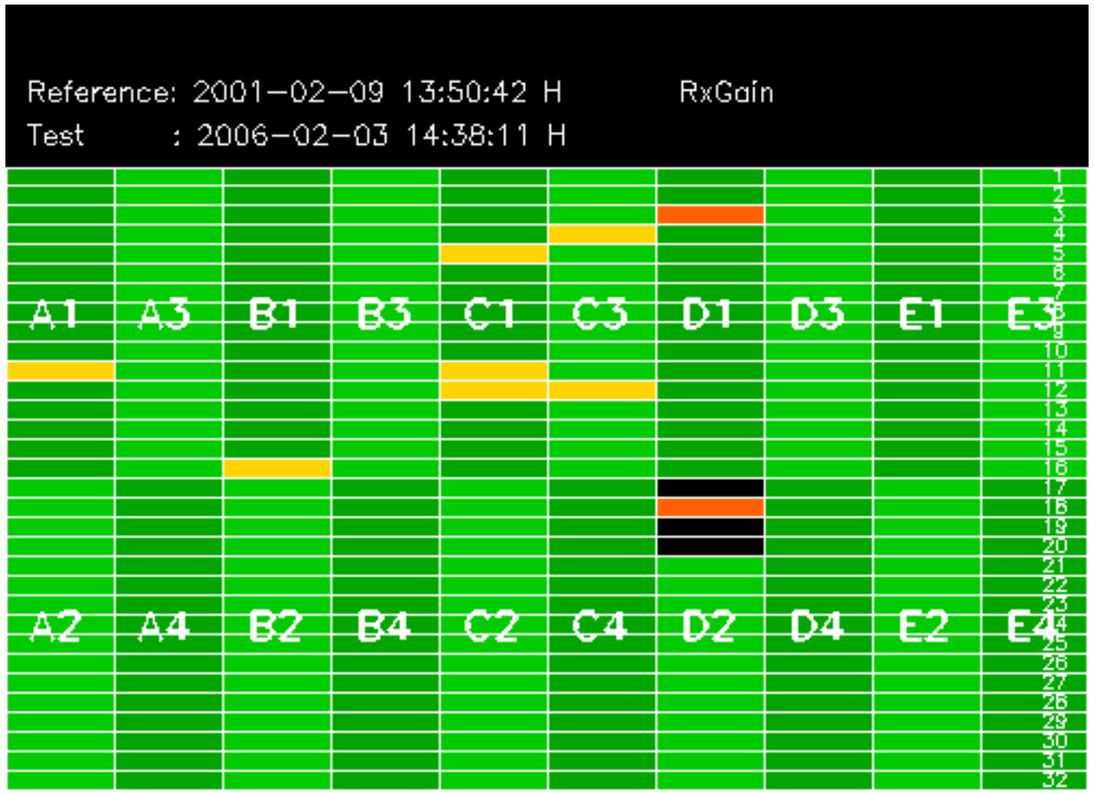

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −14.394051 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −8.5628911 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.389409 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-02-03 14:38:11 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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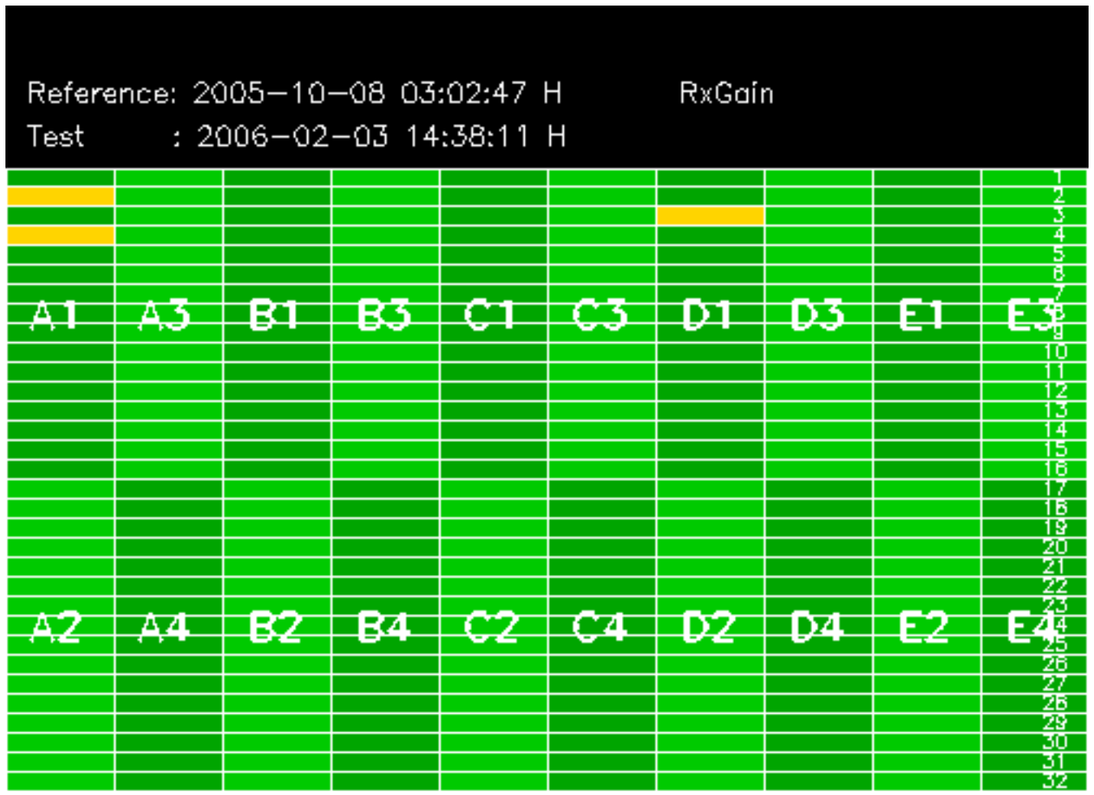
Reference: 2005-10-08 03:02:47 H
RxGain
Test : 2006-02-03 14:38:11 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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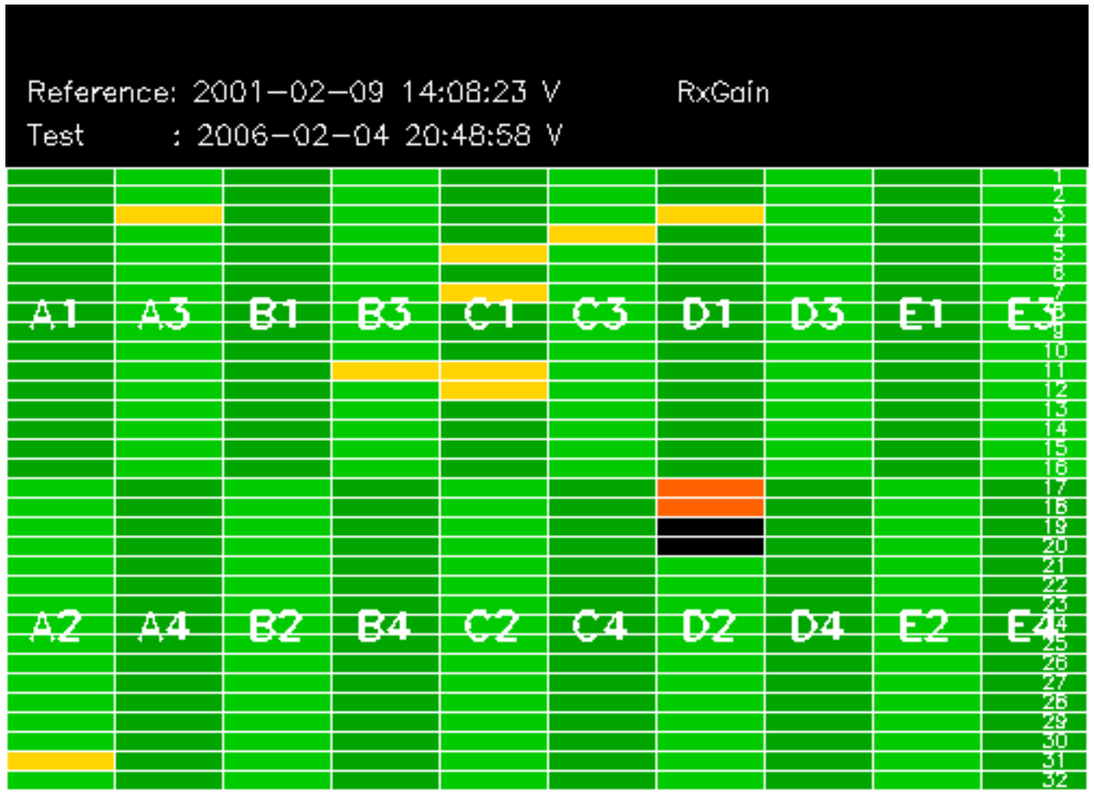
Reference: 2001-02-09 14:08:23 V
Test : 2006-02-04 20:48:58 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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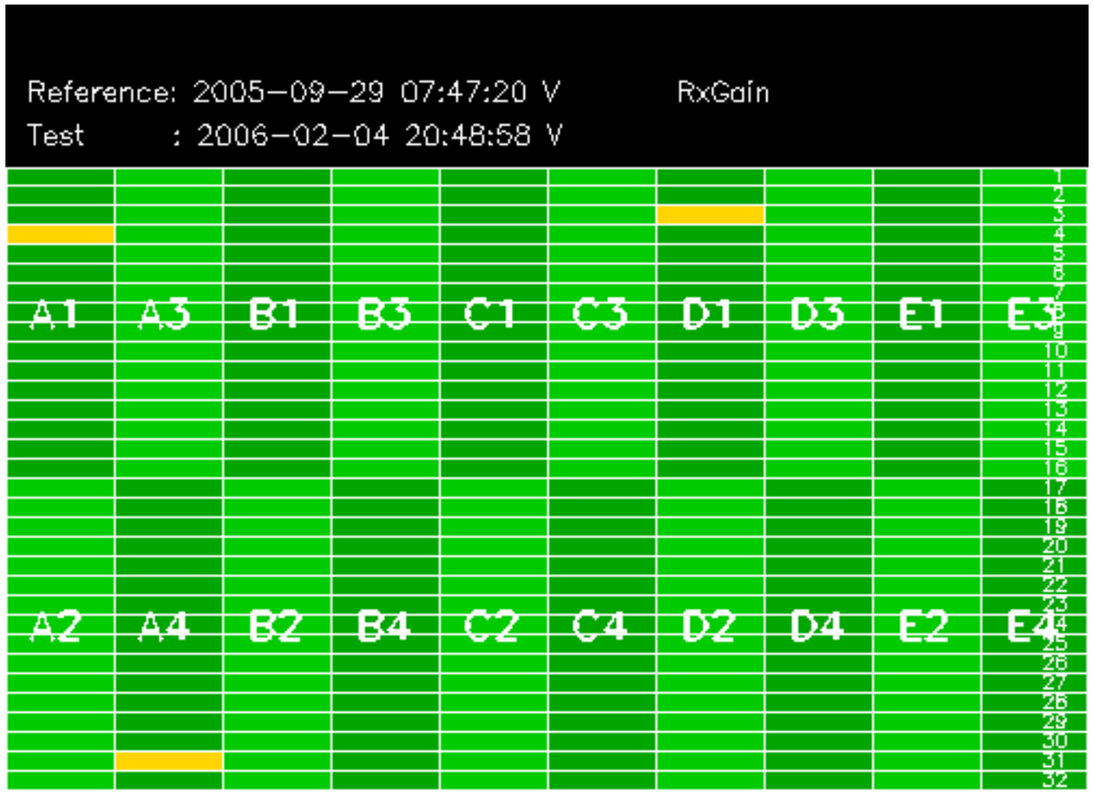
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-04 20:48:58 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-02-03 14:38:11 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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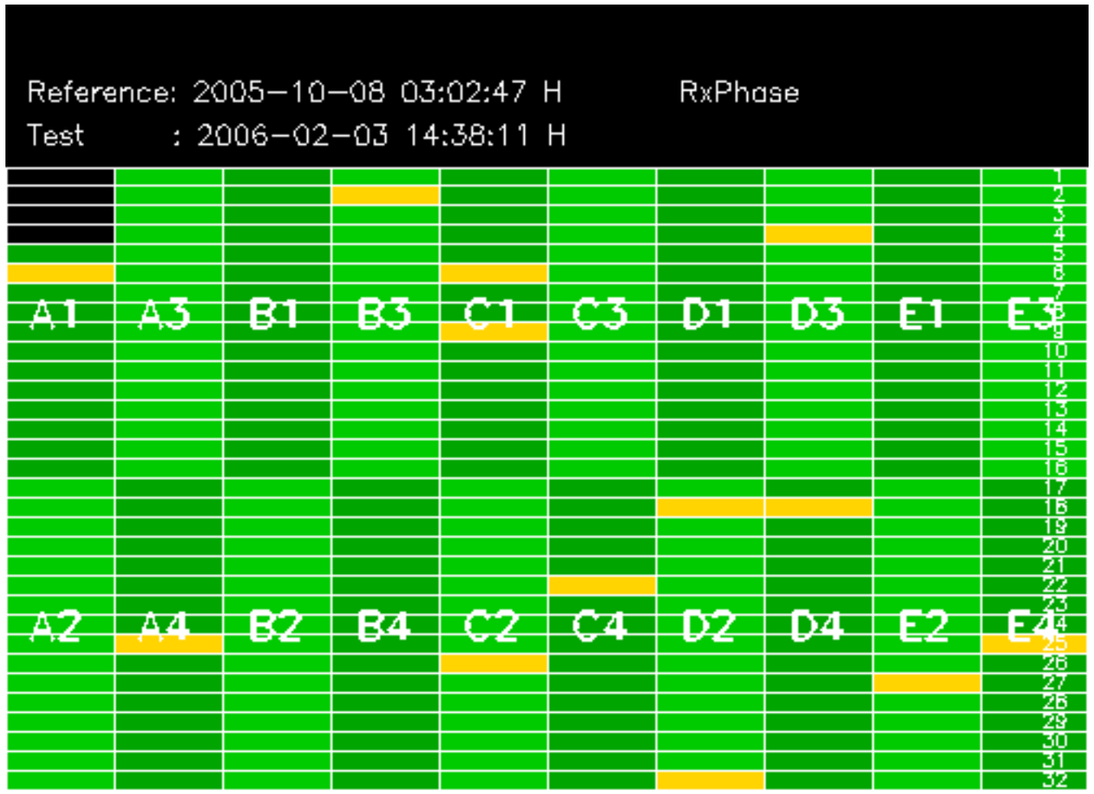
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-02-03 14:38:11 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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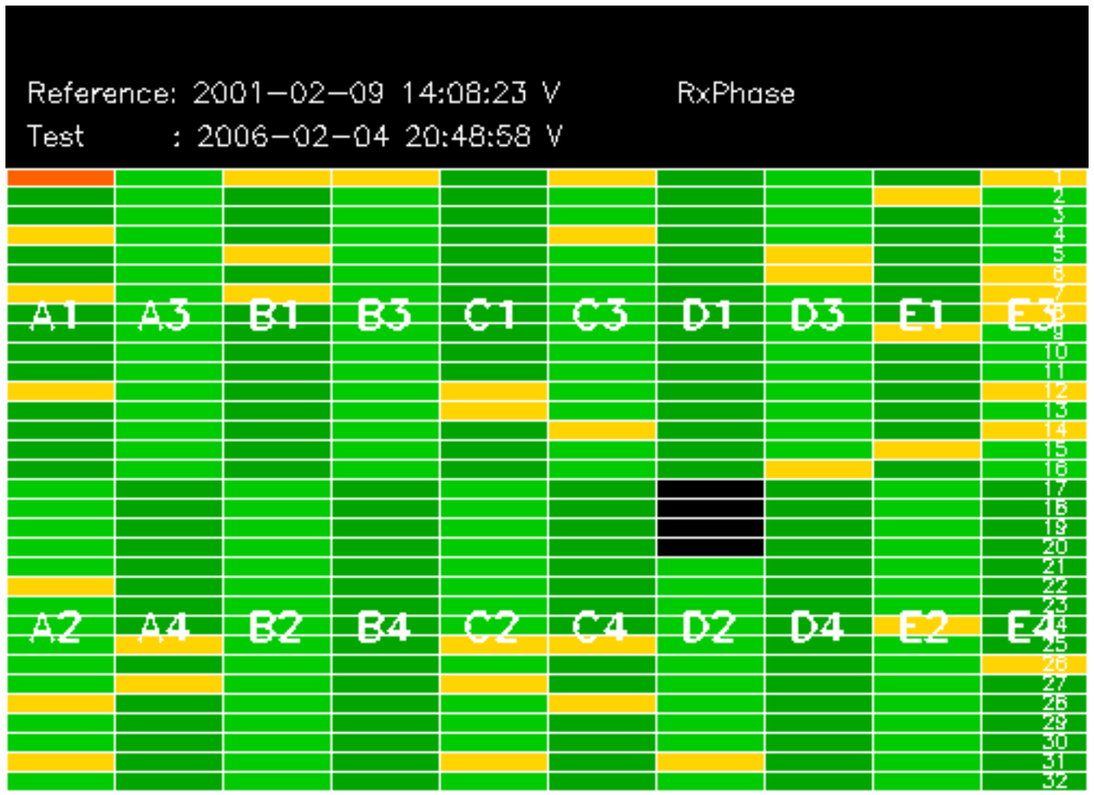
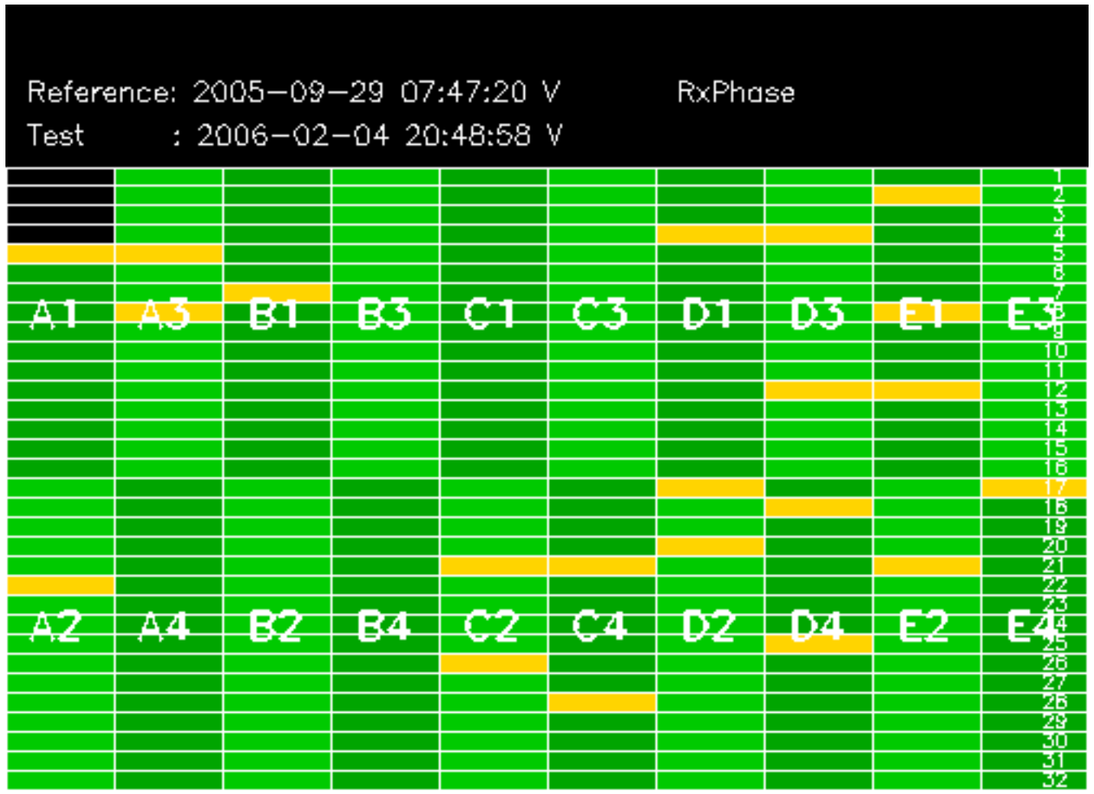

Reference: 2001-02-09 14:08:23 V
Test : 2006-02-04 20:48:58 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-02-04 20:48:58 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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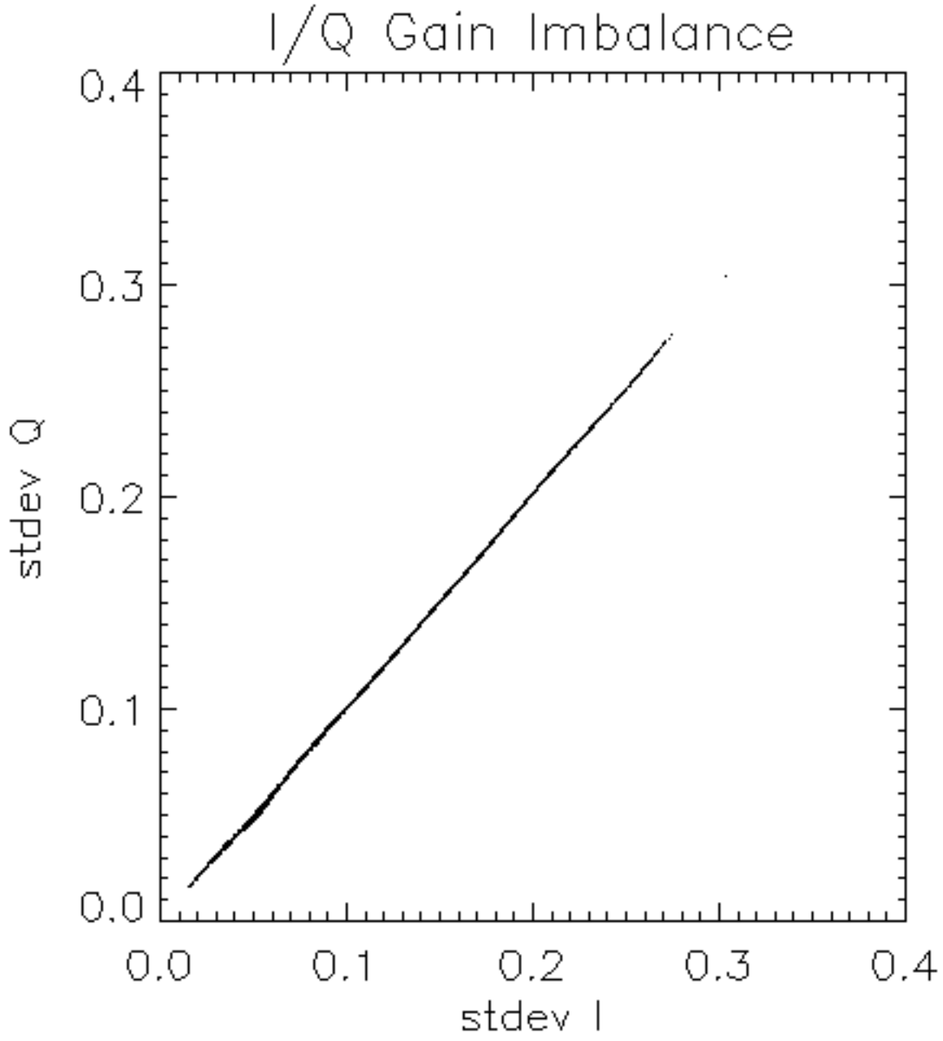
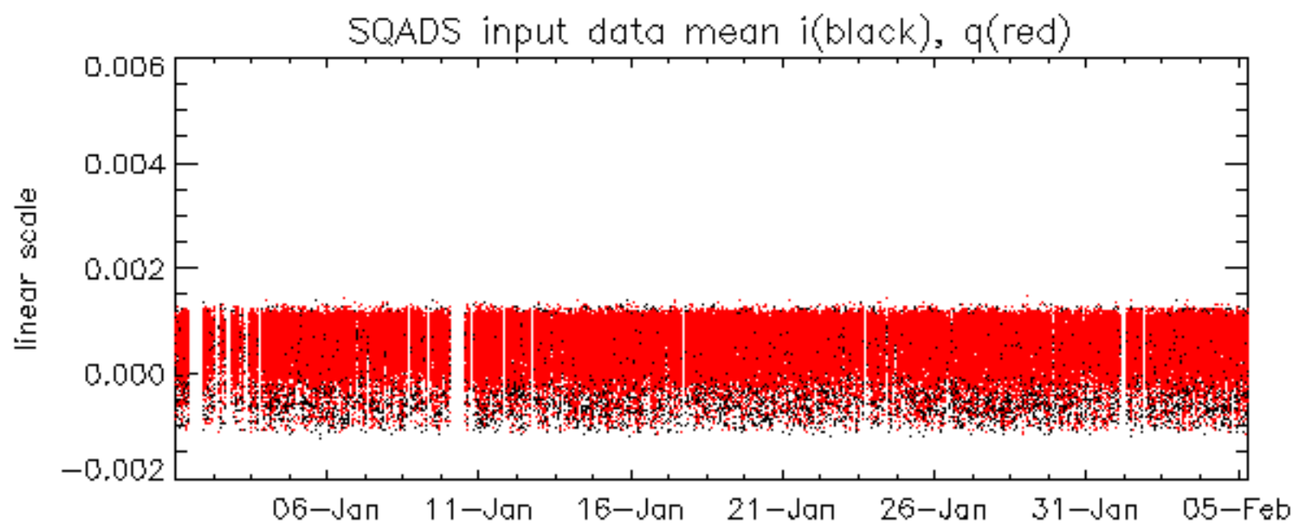
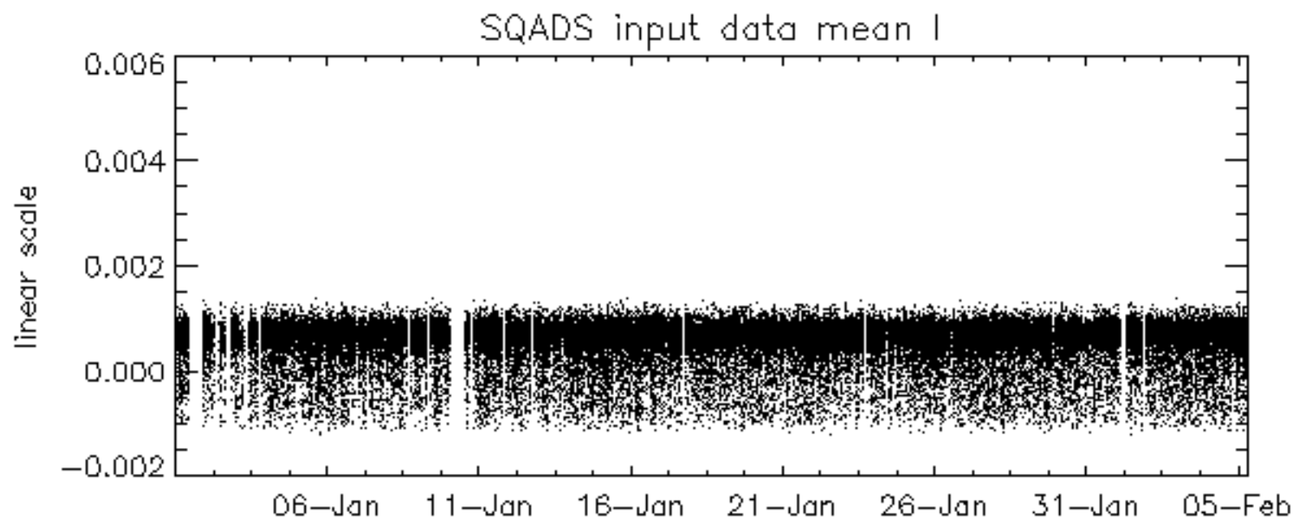
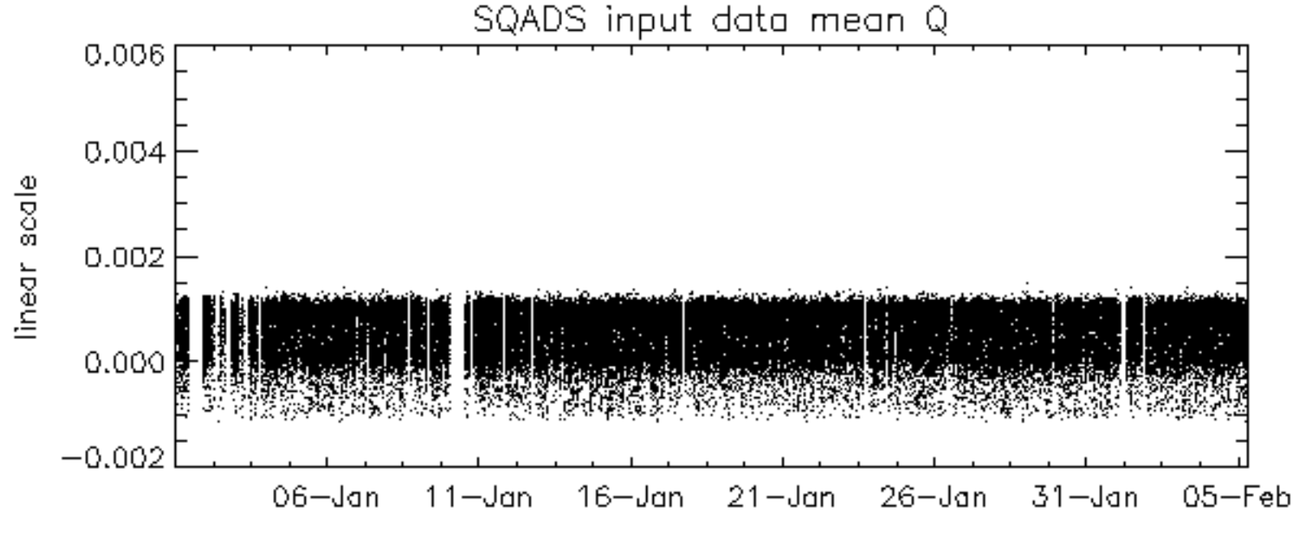
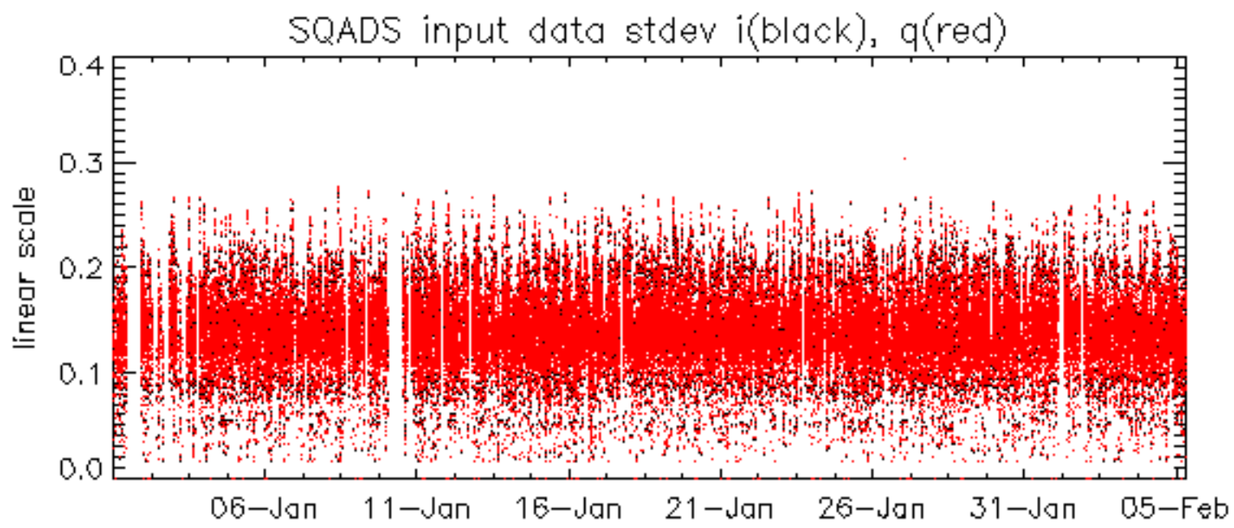
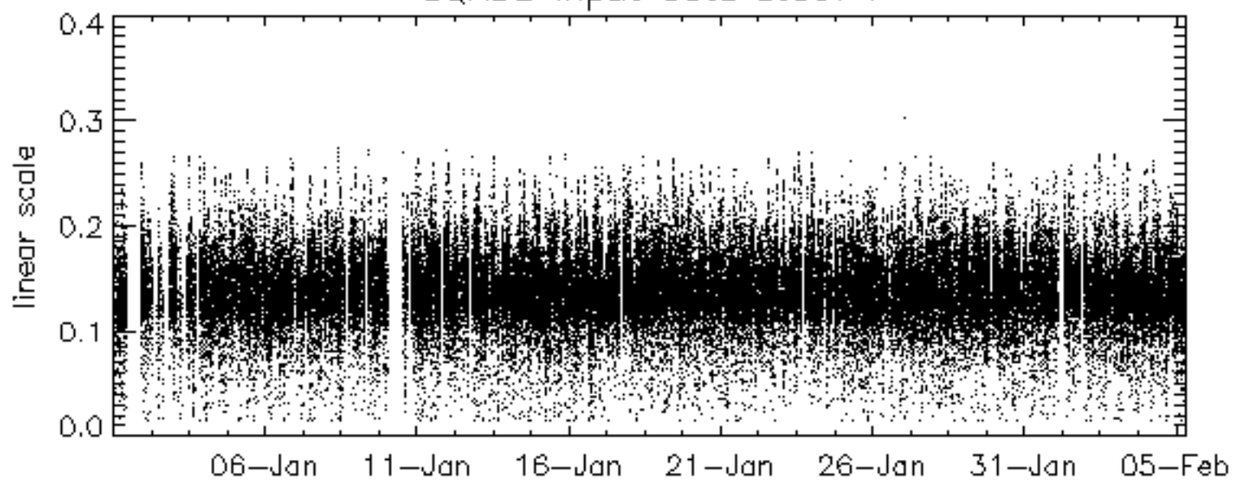

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

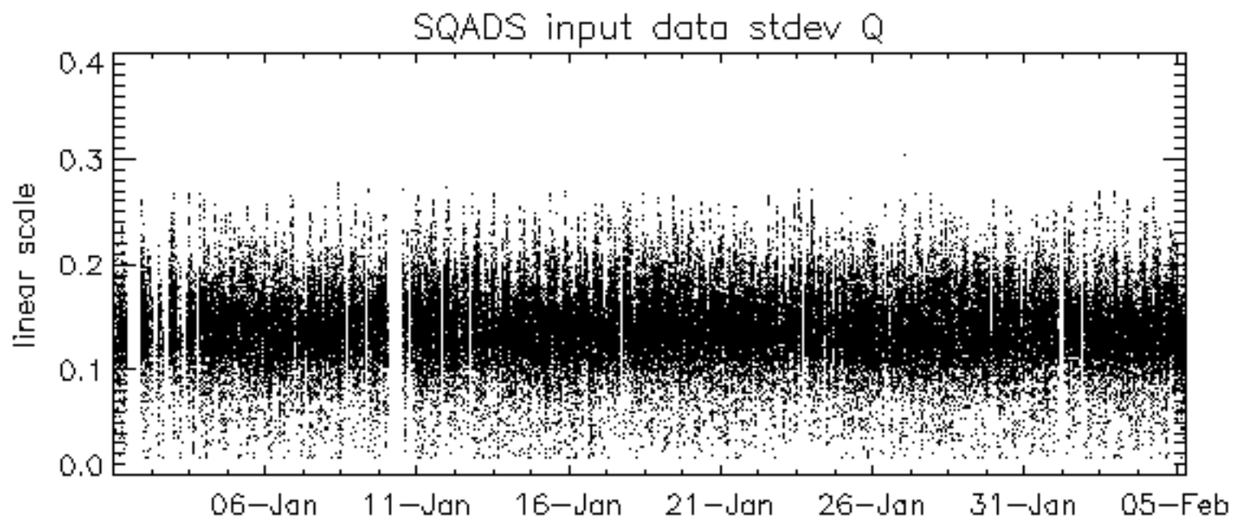

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Jan
11−Jan
16−Jan
21−Jan
26−Jan
31−Jan
05−Feb

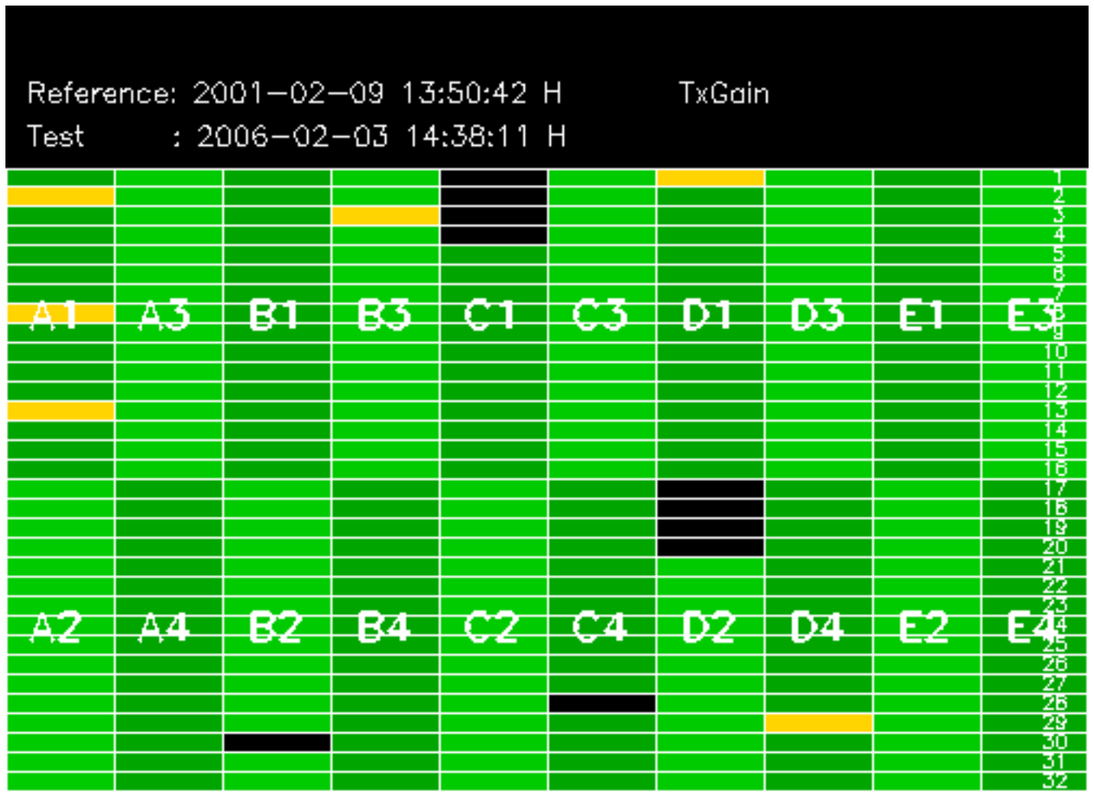

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Jan
11−Jan
16−Jan
21−Jan
26−Jan
31−Jan
05−Feb


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Jan
11−Jan
16−Jan
21−Jan
26−Jan
31−Jan
05−Feb


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
06–Jan
11–Jan
16–Jan
21–Jan
26–Jan
31–Jan
05–Feb


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
06–Jan
11–Jan
16–Jan
21–Jan
26–Jan
31–Jan
05–Feb


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
06–Jan
11–Jan
16–Jan
21–Jan
26–Jan
31–Jan
05–Feb


Reference: 2001-02-09 13:50:42 H
Test : 2006-02-03 14:38:11 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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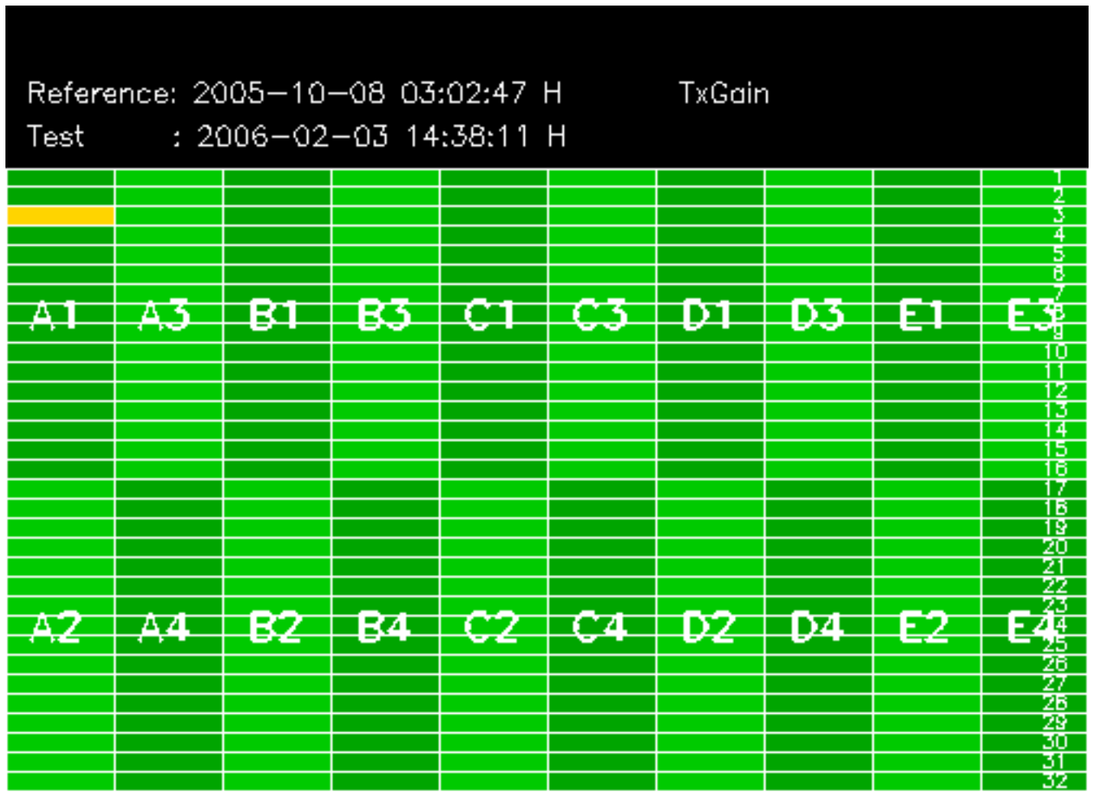
Reference: 2005-10-08 03:02:47 H
Test : 2006-02-03 14:38:11 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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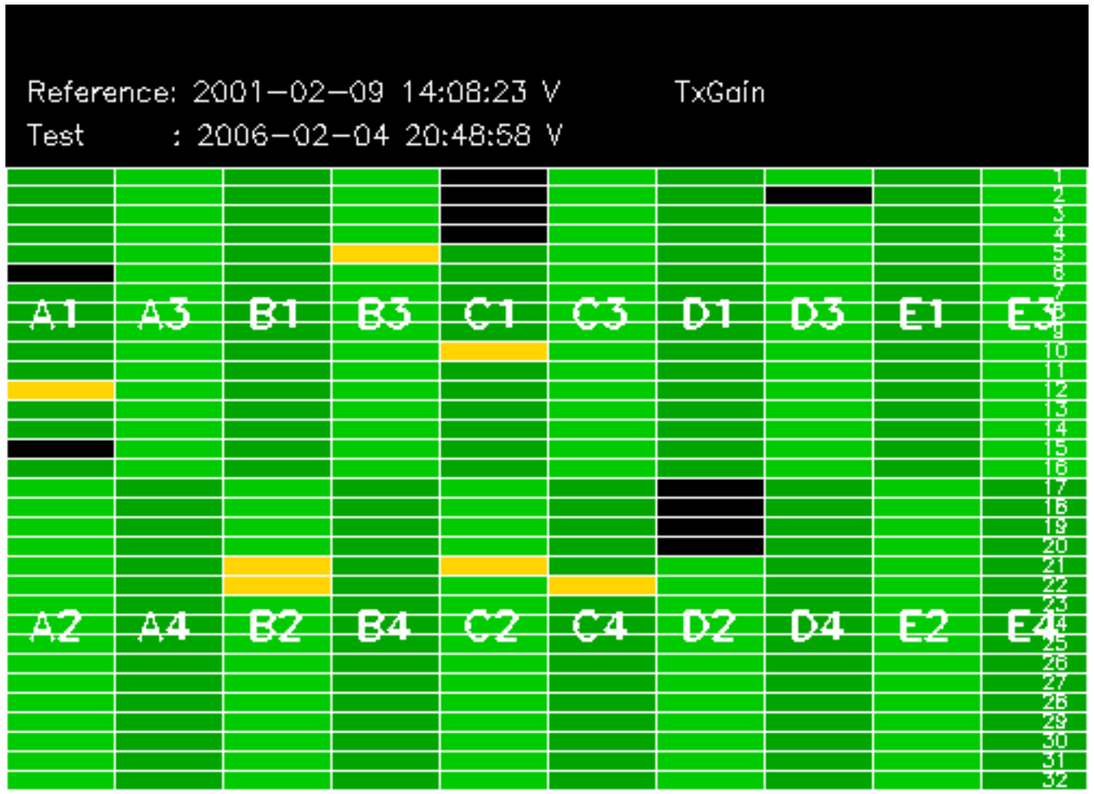
Reference: 2001-02-09 14:08:23 V
Test : 2006-02-04 20:48:58 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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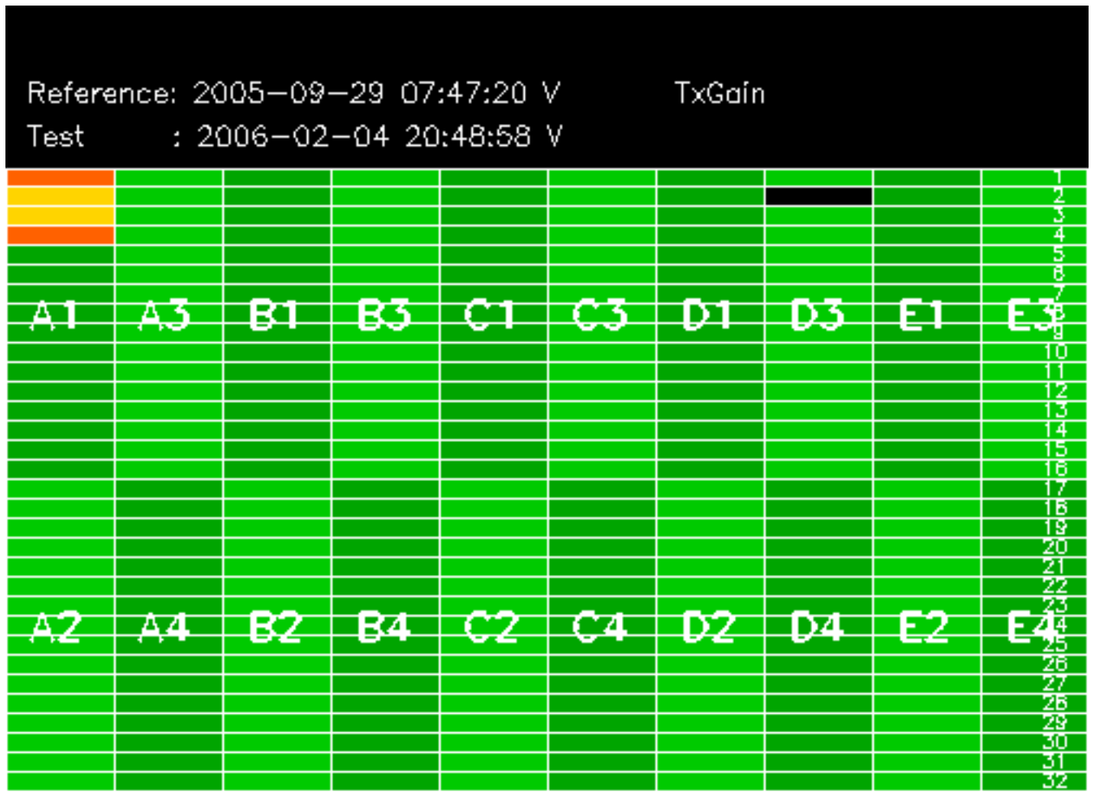
Reference: 2005-09-29 07:47:20 V
Test : 2006-02-04 20:48:58 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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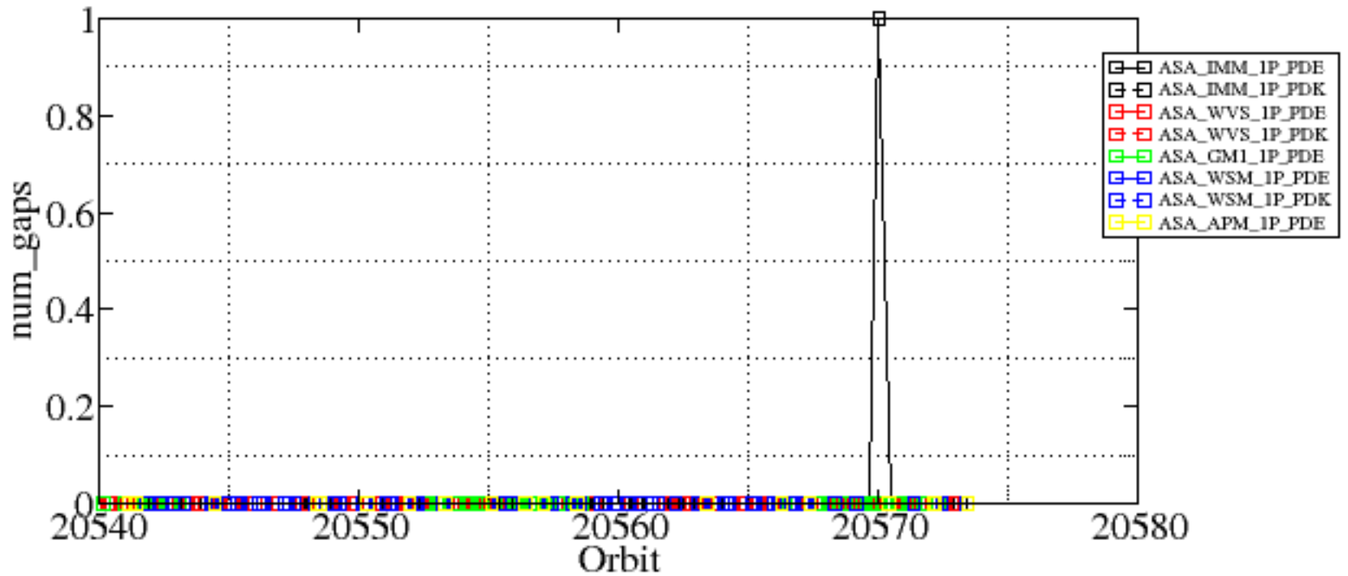
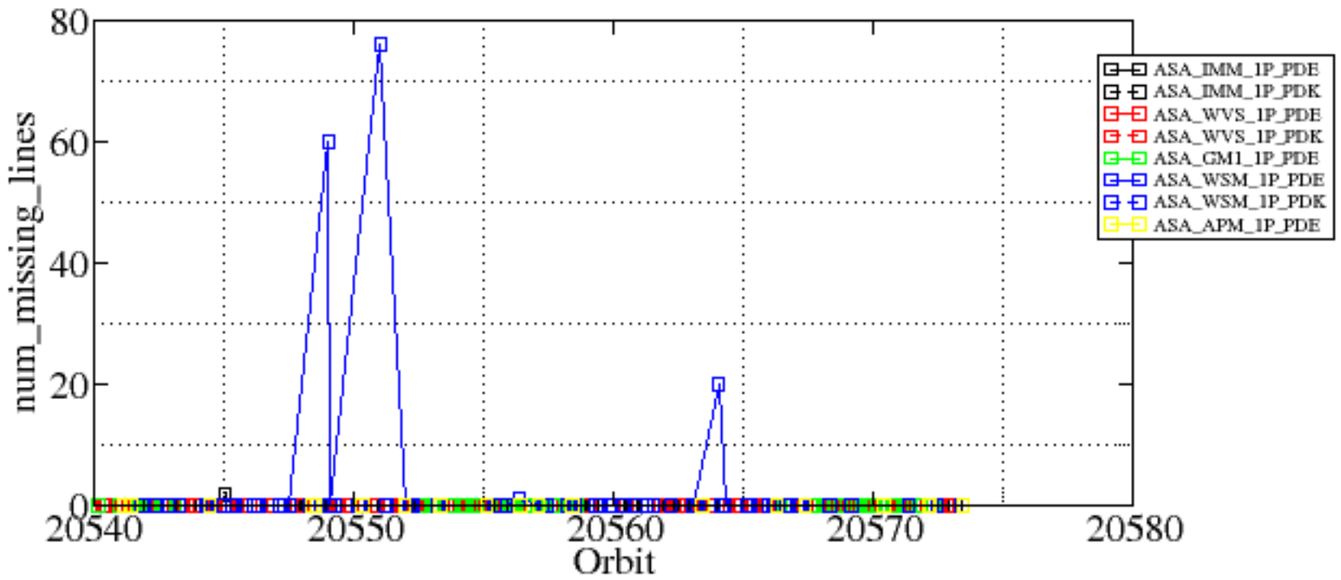
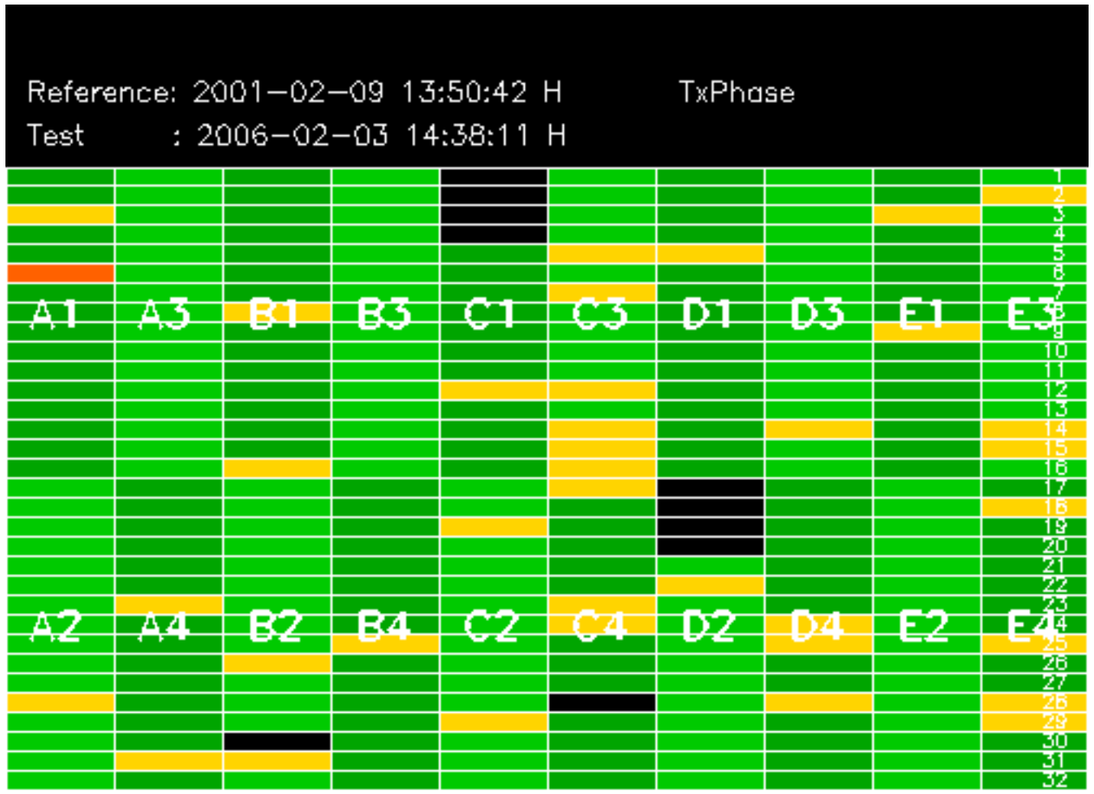
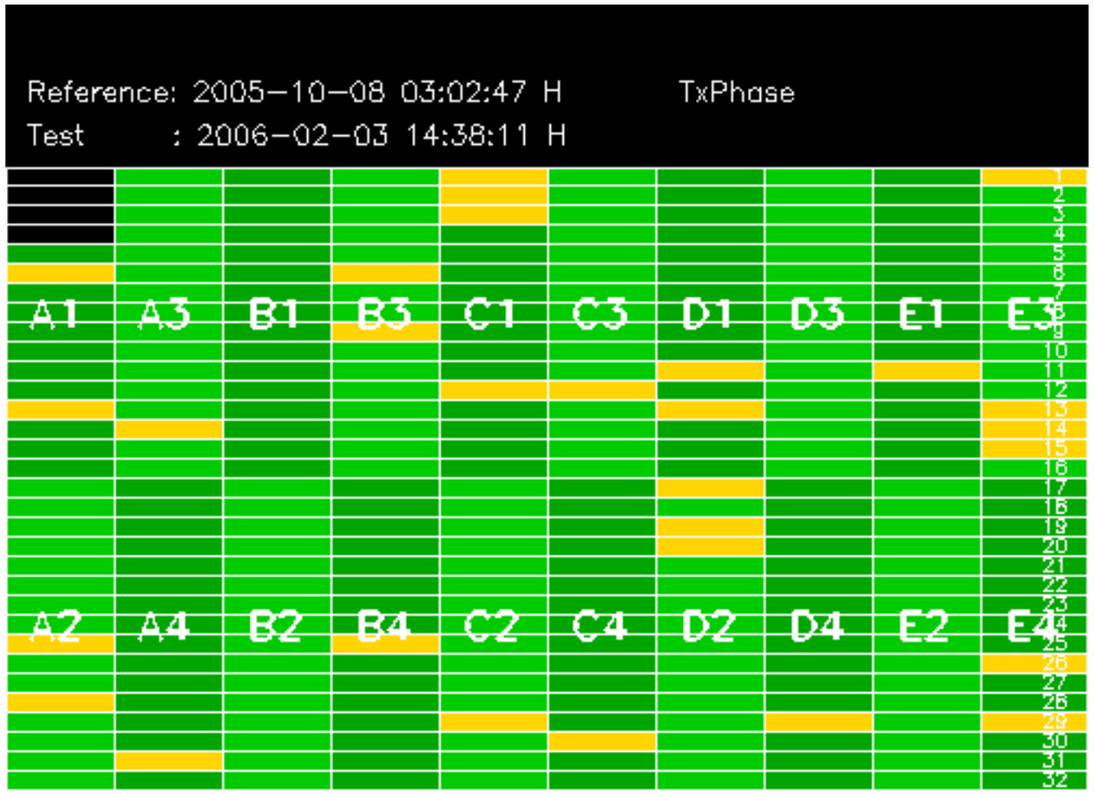
Summary of analysis for the last 3 days 2006020[345]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060205_022547_000000362044_00476_20570_2062.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDK20060203_083342_000000502044_00451_20545_0626.N1 </td> <td>0 </td> <td>2 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060203_151324_000001292044_00455_20549_3596.N1 </td> <td>0 </td> <td>60 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060203_183519_000002252044_00457_20551_3602.N1 </td> <td>0 </td> <td>76 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060204_033233_000002132044_00462_20556_3632.N1 </td> <td>0 </td> <td>1 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060204_162501_000002452044_00470_20564_3708.N1 </td> <td>0 </td> <td>20 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
20540
20550
20560
20570
20580
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
Orbit
80
60
40
20
0
20540
20550
20560
20570
20580
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 : 2006-02-03 14:38:11 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
Test : 2006-02-03 14:38:11 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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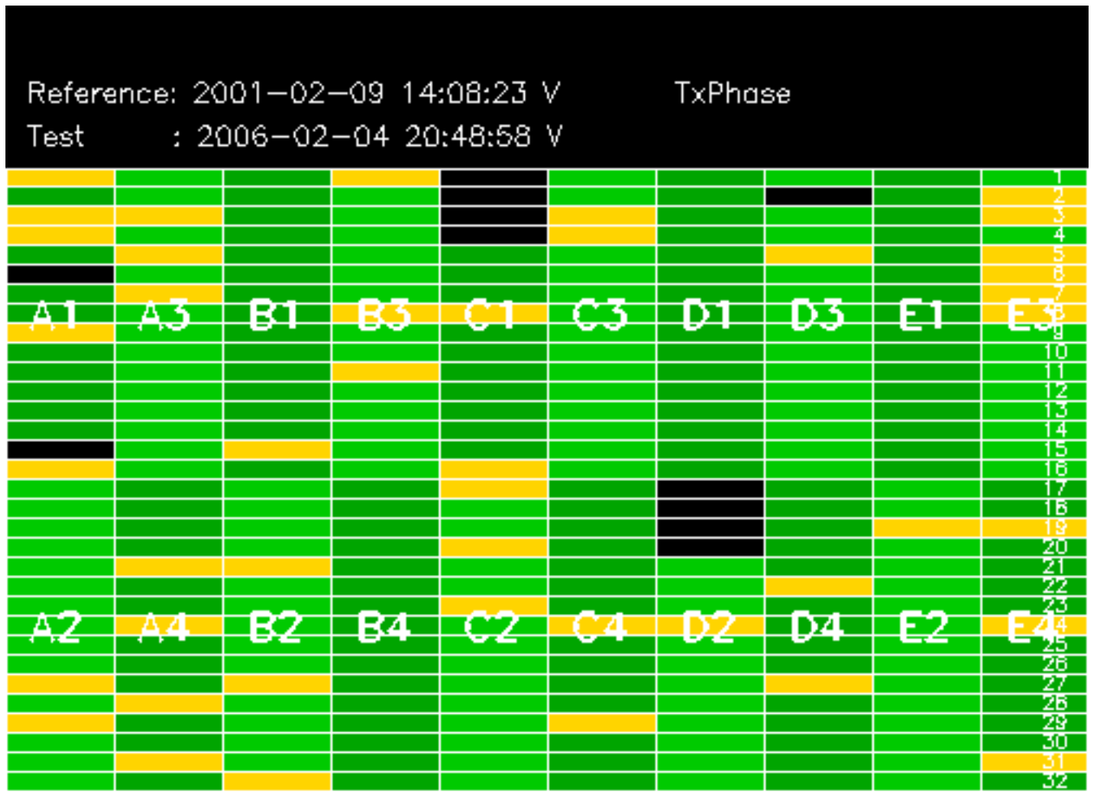
Reference: 2001-02-09 14:08:23 V
Test : 2006-02-04 20:48:58 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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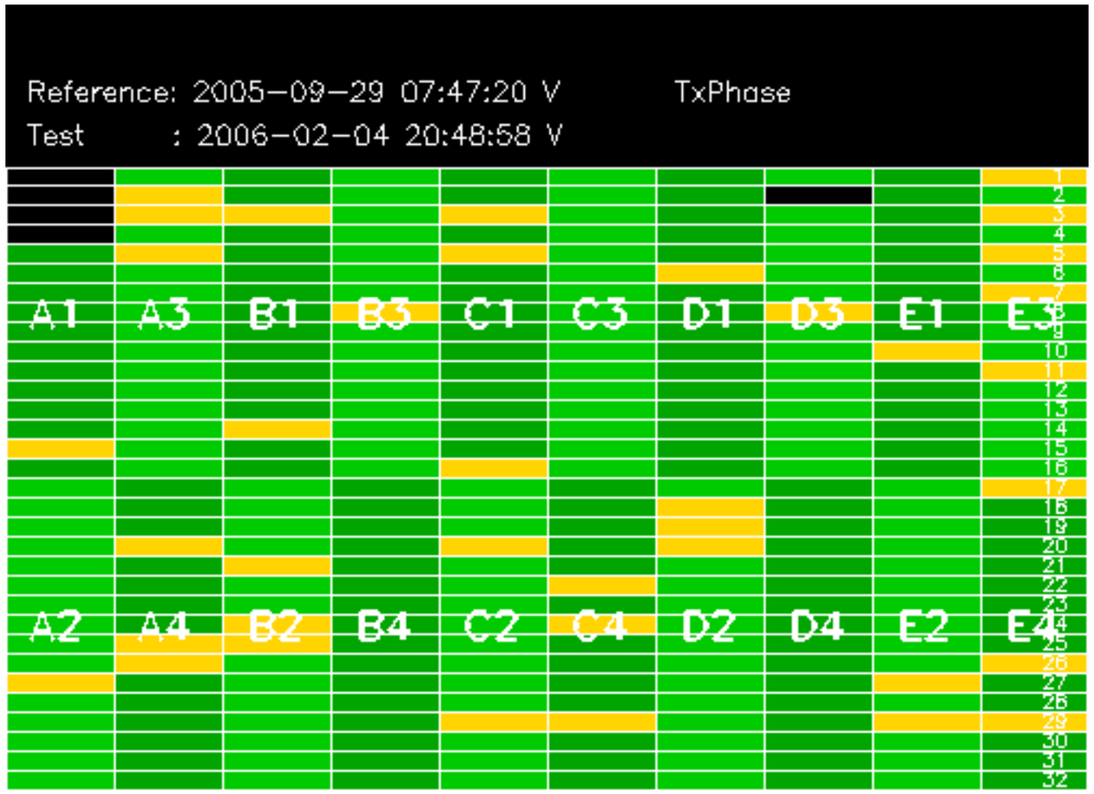
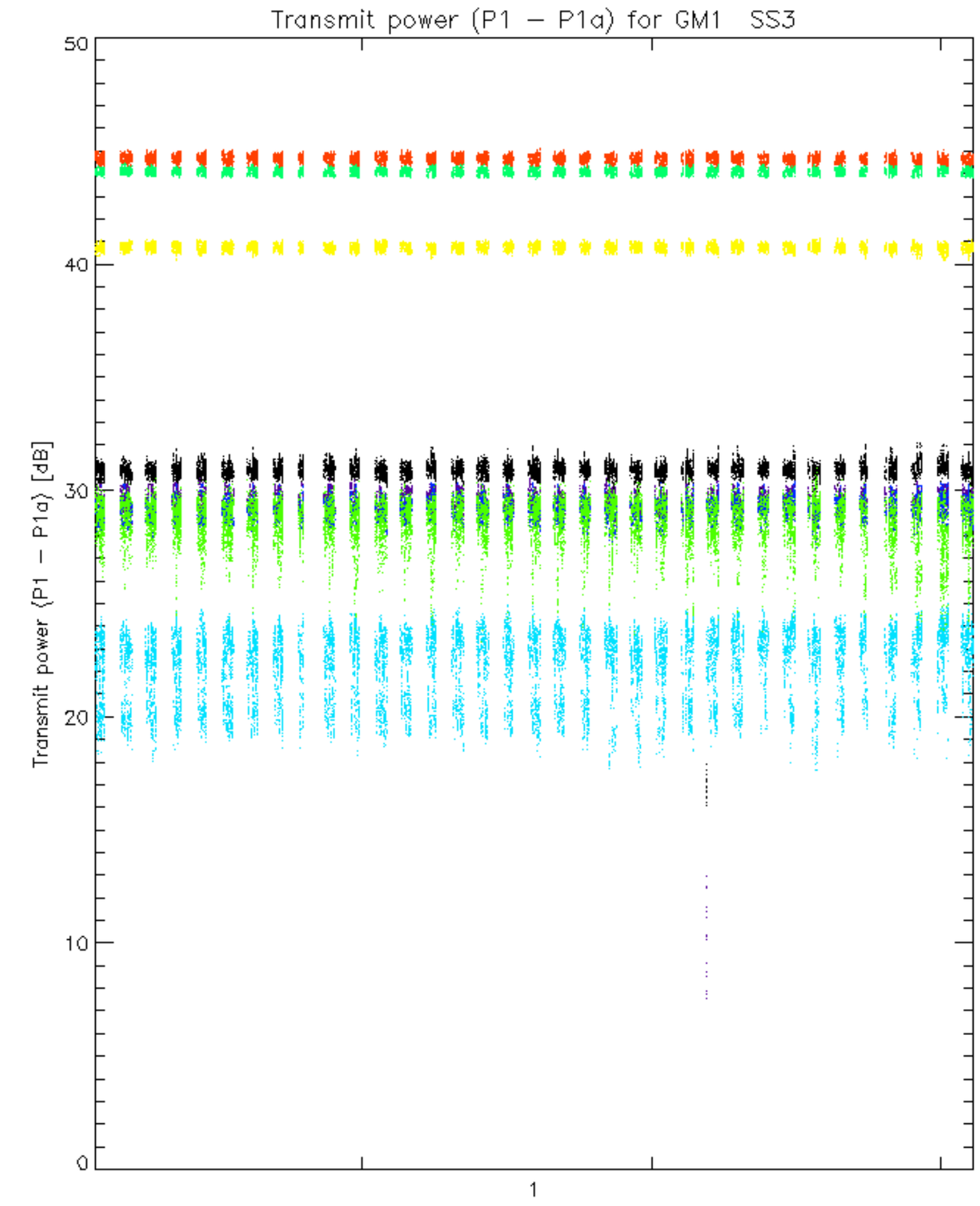
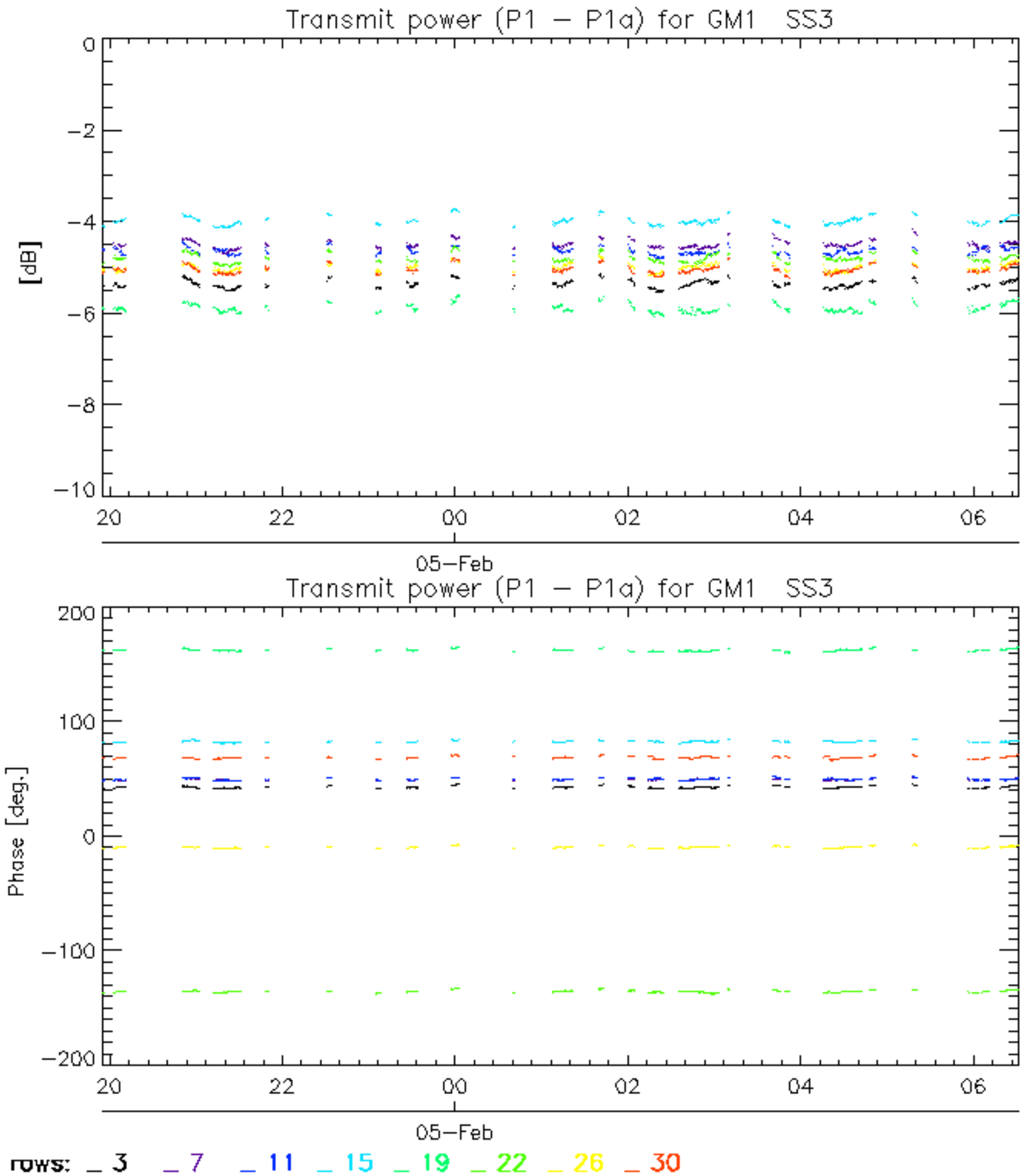
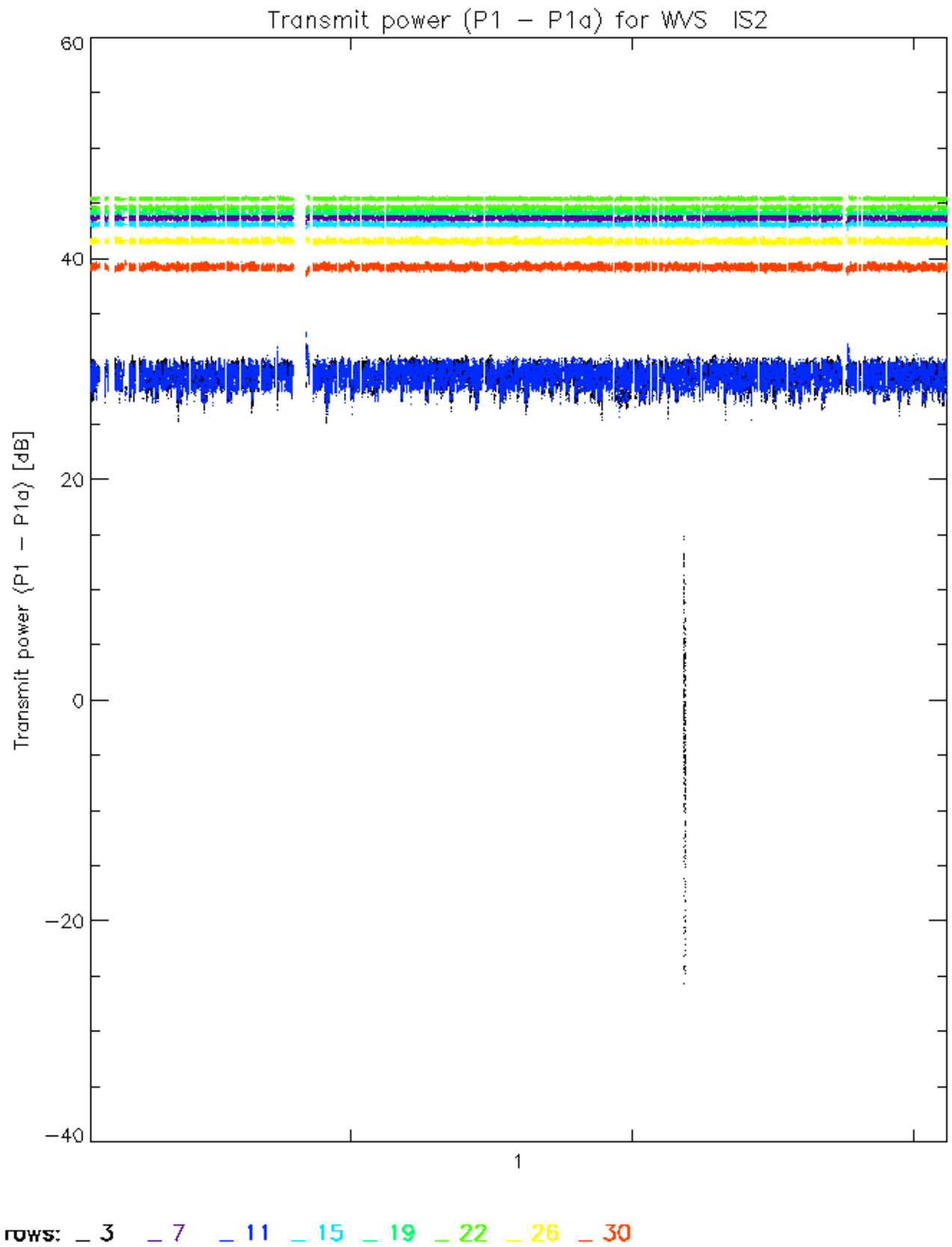
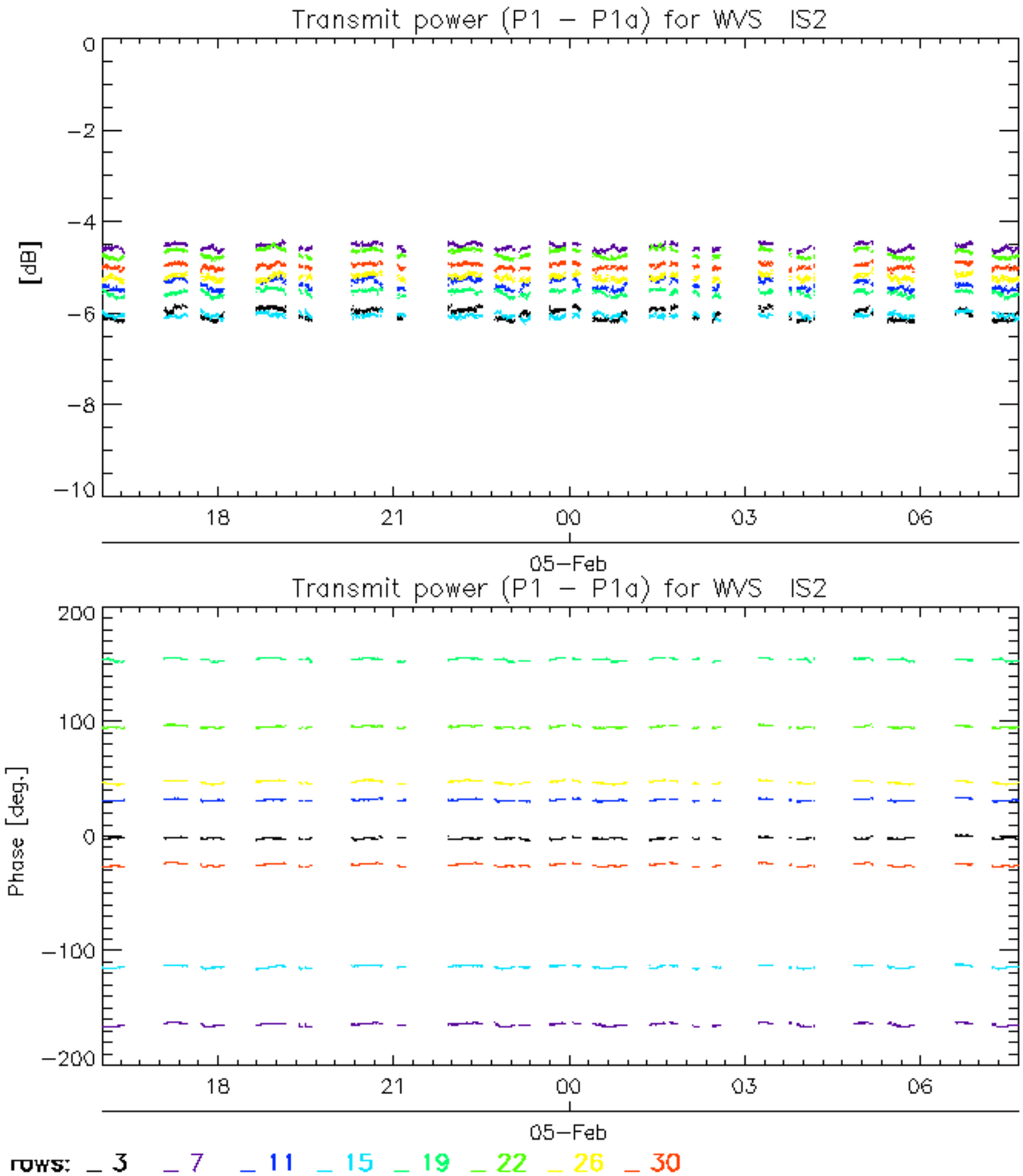

Reference: 2005-09-29 07:47:20 V
Test : 2006-02-04 20:48:58 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Transmit power (P1 – P1a) for GM1 SS3
Transmit power ⟨P1 – P1a⟩ [dB]
50
40
30
20
10
0
1
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
05–Feb
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
20
22
00
02
04
06
05–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
1
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
05–Feb
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
05–Feb
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.