PRELIMINARY REPORT OF 070121

last update on Sun Jan 21 16:30:21 GMT 2007

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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 2007-01-20 00:00:00 to 2007-01-21 16:30:21

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	30	46	7	1	9
ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000	30	46	7	1	9
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	30	46	7	1	9
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	30	46	7	1	9

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	50	43	50	10	31
ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000	50	43	50	10	31
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	50	43	50	10	31
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	50	43	50	10	31

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	20070120 204859
H	20070119 143812

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)
3	P1a	-16.522007	0.252086	0.115466
7	P1a	-17.256083	0.179251	0.000761
11	P1a	-17.270489	0.437634	-0.065319
15	P1a	-13.035617	0.122596	0.012618
19	P1a	-15.097993	0.111501	-0.100459
22	P1a	-15.792843	0.543293	0.025441
26	P1a	-15.027411	0.181977	0.002255
30	P1a	-17.530340	0.497770	-0.046378

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.964939	0.007088	0.022878
7	P1	-3.129516	0.043978	0.042242
11	P1	-4.116332	0.025256	0.005312
15	P1	-6.338815	0.016492	-0.012910
19	P1	-3.690325	0.006020	-0.032973
22	P1	-4.682138	0.016541	-0.013245
26	P1	-3.951673	0.009726	0.031871
30	P1	-5.918934	0.008388	0.003077
3	P1a	-16.522007	0.252086	0.115466
7	P1a	-17.256083	0.179251	0.000761
11	P1a	-17.270489	0.437634	-0.065319
15	P1a	-13.035617	0.122596	0.012618
19	P1a	-15.097993	0.111501	-0.100459
22	P1a	-15.792843	0.543293	0.025441
26	P1a	-15.027411	0.181977	0.002255
30	P1a	-17.530340	0.497770	-0.046378

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.779783	0.089482	0.068640
7	P2	-21.663084	0.088417	0.050623
11	P2	-15.531232	0.099318	0.063090
15	P2	-7.091864	0.102393	0.038714

19	P2	-9.170996	0.096280	0.044856
22	P2	-18.220673	0.087912	0.025519
26	P2	-16.593021	0.101303	0.035531
30	P2	-19.432627	0.083106	0.062226

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.238225	0.008072	0.011045
7	P3	-8.238225	0.008072	0.011045
11	P3	-8.238225	0.008072	0.011045
15	P3	-8.238225	0.008072	0.011045
19	P3	-8.238225	0.008072	0.011045
22	P3	-8.238225	0.008072	0.011045
26	P3	-8.238246	0.008072	0.011175
30	P3	-8.238246	0.008072	0.011175

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1a	-11.726127	0.073507	-0.016855
7	P1a	-10.034030	0.085166	0.051874
11	P1a	-10.365980	0.088038	-0.066457
15	P1a	-10.746144	0.159829	-0.070167
19	P1a	-15.751792	0.101345	-0.051240
22	P1a	-21.503914	1.491401	0.375178
26	P1a	-15.950847	0.311358	0.321898
30	P1a	-17.954340	0.381802	-0.276460

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)

3	P1	-3.921303	0.012905	-0.011850
7	P1	-2.468498	0.061810	0.052595
11	P1	-2.828624	0.014973	0.002873
15	P1	-3.718630	0.032146	-0.086028
19	P1	-3.553906	0.018555	-0.032415
22	P1	-5.004748	0.022084	-0.017448
26	P1	-6.043909	0.023802	-0.012655
30	P1	-5.349753	0.035805	0.007522
3	P1a	-11.726127	0.073507	-0.016855
7	P1a	-10.034030	0.085166	0.051874
11	P1a	-10.365980	0.088038	-0.066457
15	P1a	-10.746144	0.159829	-0.070167
19	P1a	-15.751792	0.101345	-0.051240
22	P1a	-21.503914	1.491401	0.375178
26	P1a	-15.950847	0.311358	0.321898
30	P1a	-17.954340	0.381802	-0.276460

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.415579	0.091150	0.140957
7	P2	-22.180984	0.214666	0.080624
11	P2	-10.825523	0.083807	0.107318
15	P2	-4.953318	0.198997	0.079307
19	P2	-6.941996	0.208849	0.066804
22	P2	-8.231402	0.117016	0.030011
26	P2	-24.344997	0.145881	0.024518
30	P2	-21.896477	0.129316	0.093834

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.087173	0.002774	0.027171
7	P3	-8.086912	0.002760	0.026834
11	P3	-8.087070	0.002776	0.027473
15	P3	-8.086937	0.002763	0.026783
19	P3	-8.087035	0.002773	0.027350
22	P3	-8.086949	0.002767	0.026407
26	P3	-8.087267	0.002770	0.027080
30	P3	-8.087016	0.002763	0.027089

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	0.000572777
	stdev	1.62148e-07
MEAN Q	mean	0.000511108
	stdev	2.11032e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.140453
	stdev	0.00115814
STDEV Q	mean	0.140852
	stdev	0.00117777

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2007012[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_1PNPDE20070120_015157_000000532054_00461_25565_3990.N1	1	0
ASA_GM1_1PNPDK20070120_131030_000008632054_00468_25572_5436.N1	0	17

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

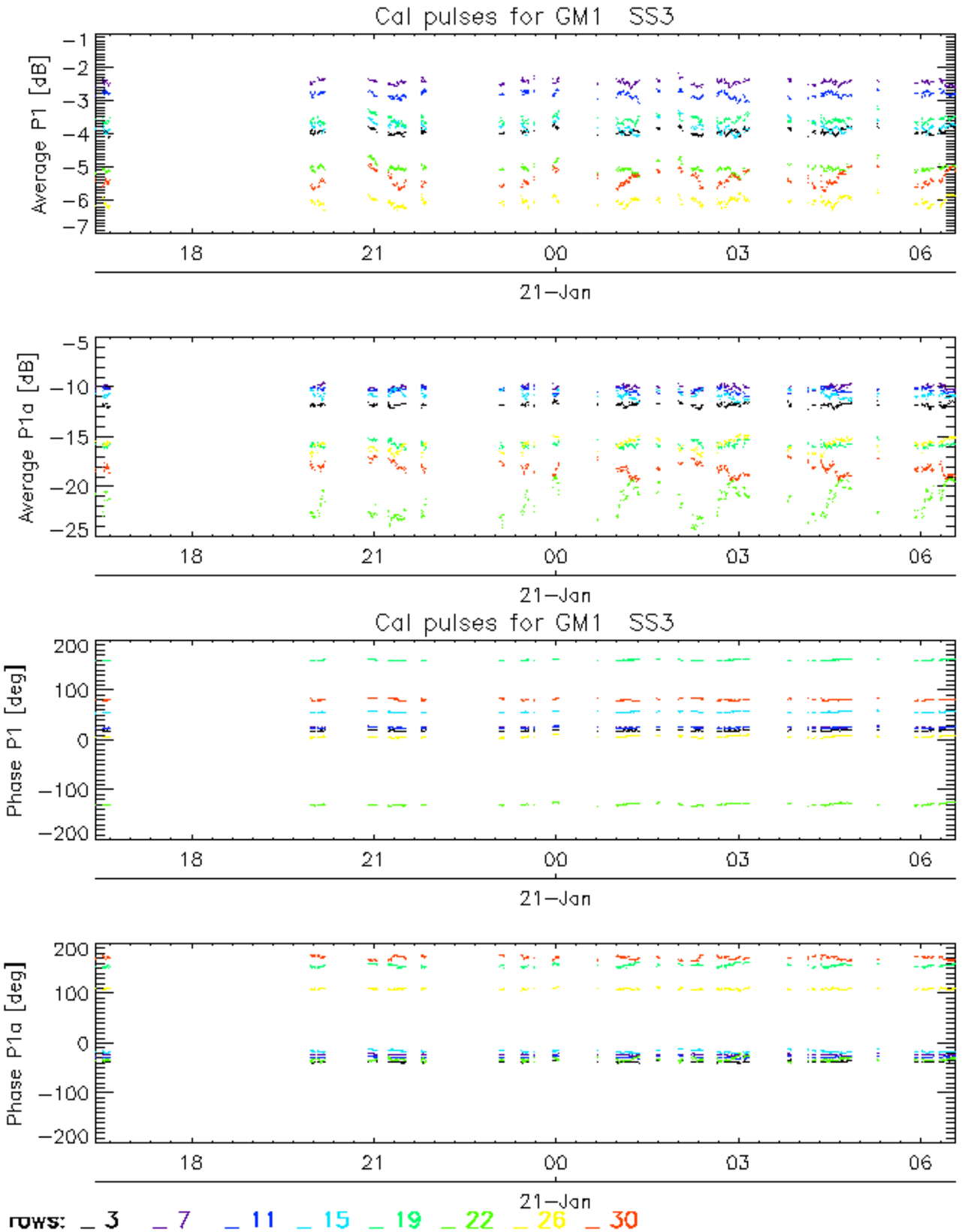
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

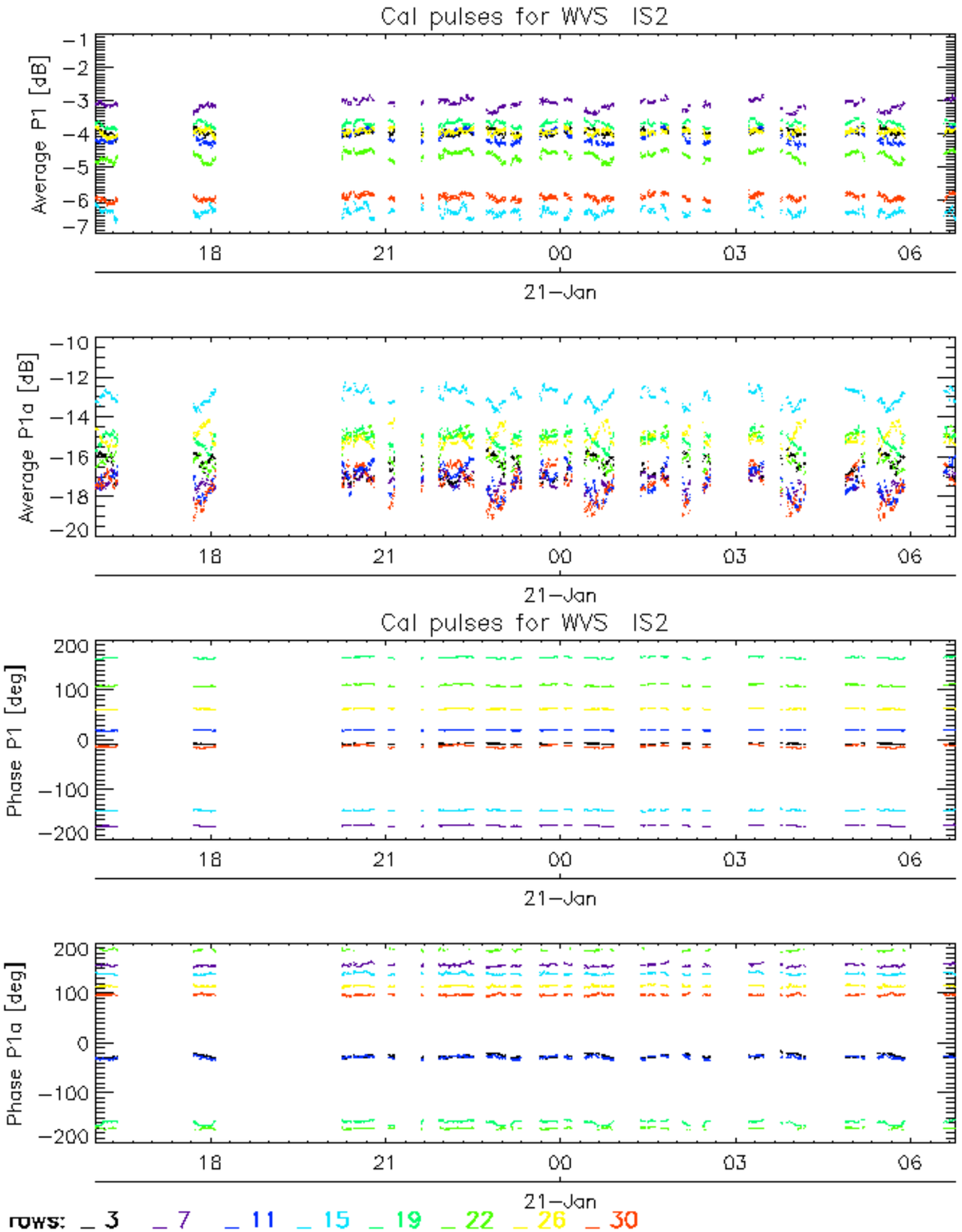
7.5 - Absolute Doppler for GM1

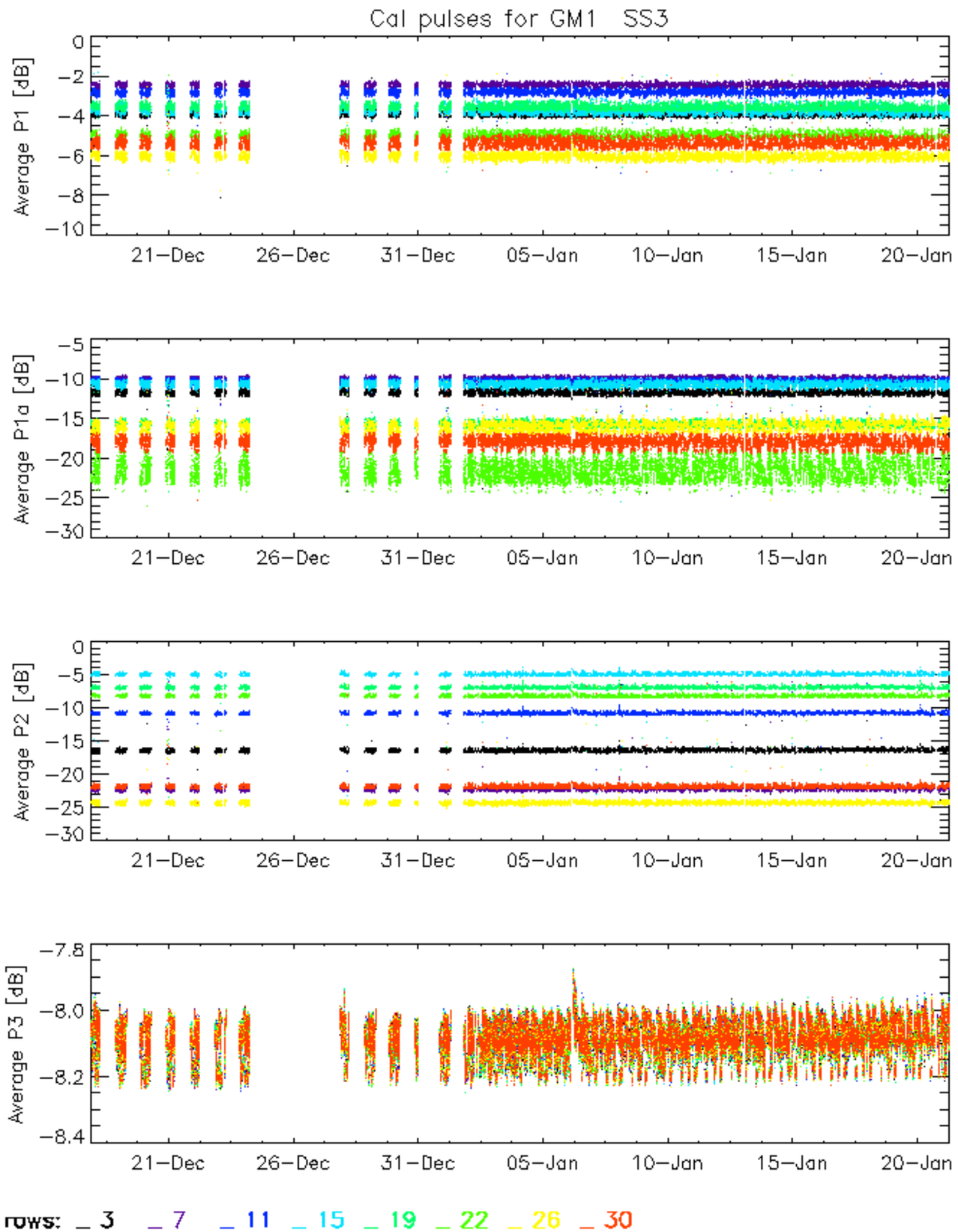
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

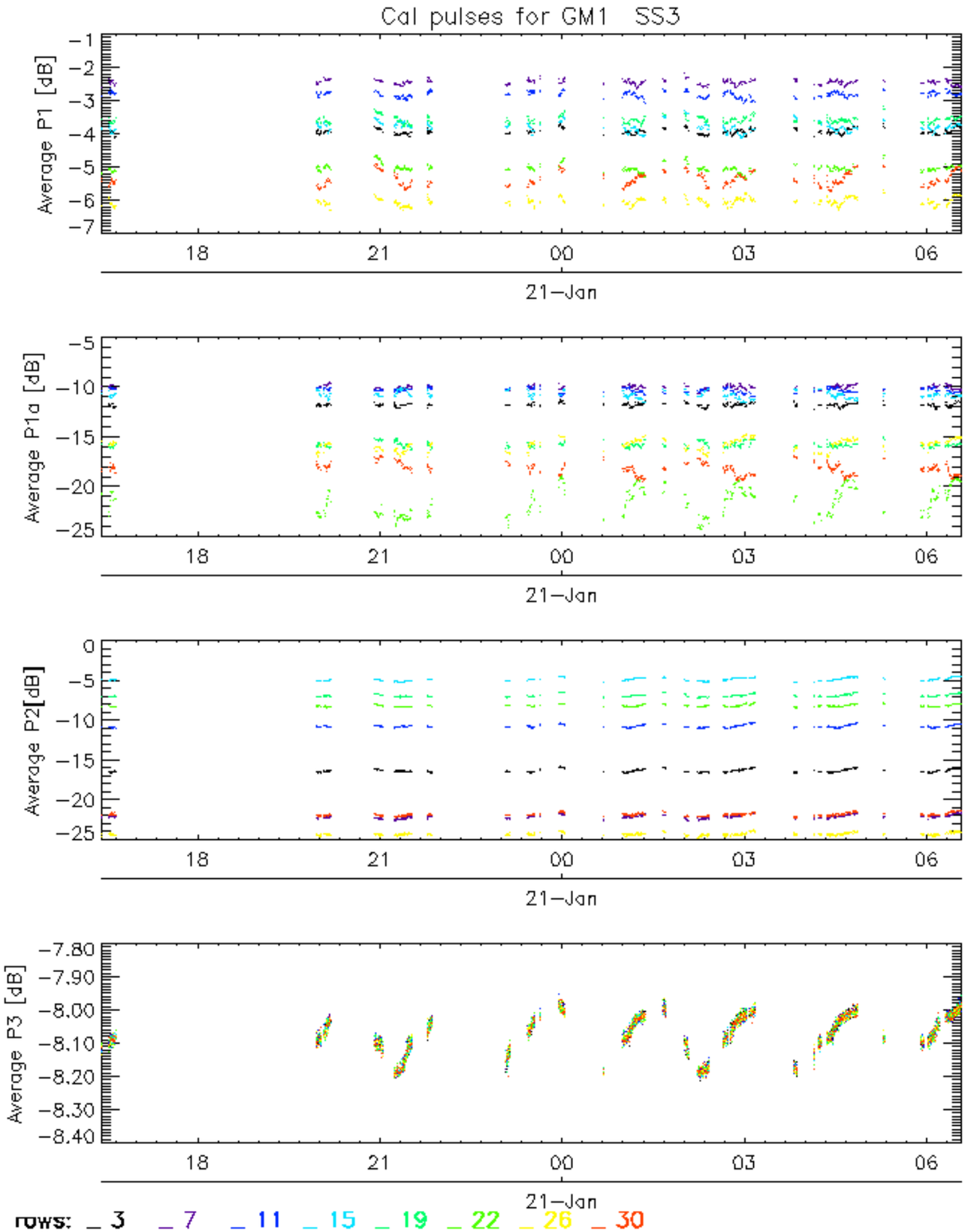
7.6 - Doppler evolution versus ANX for GM1

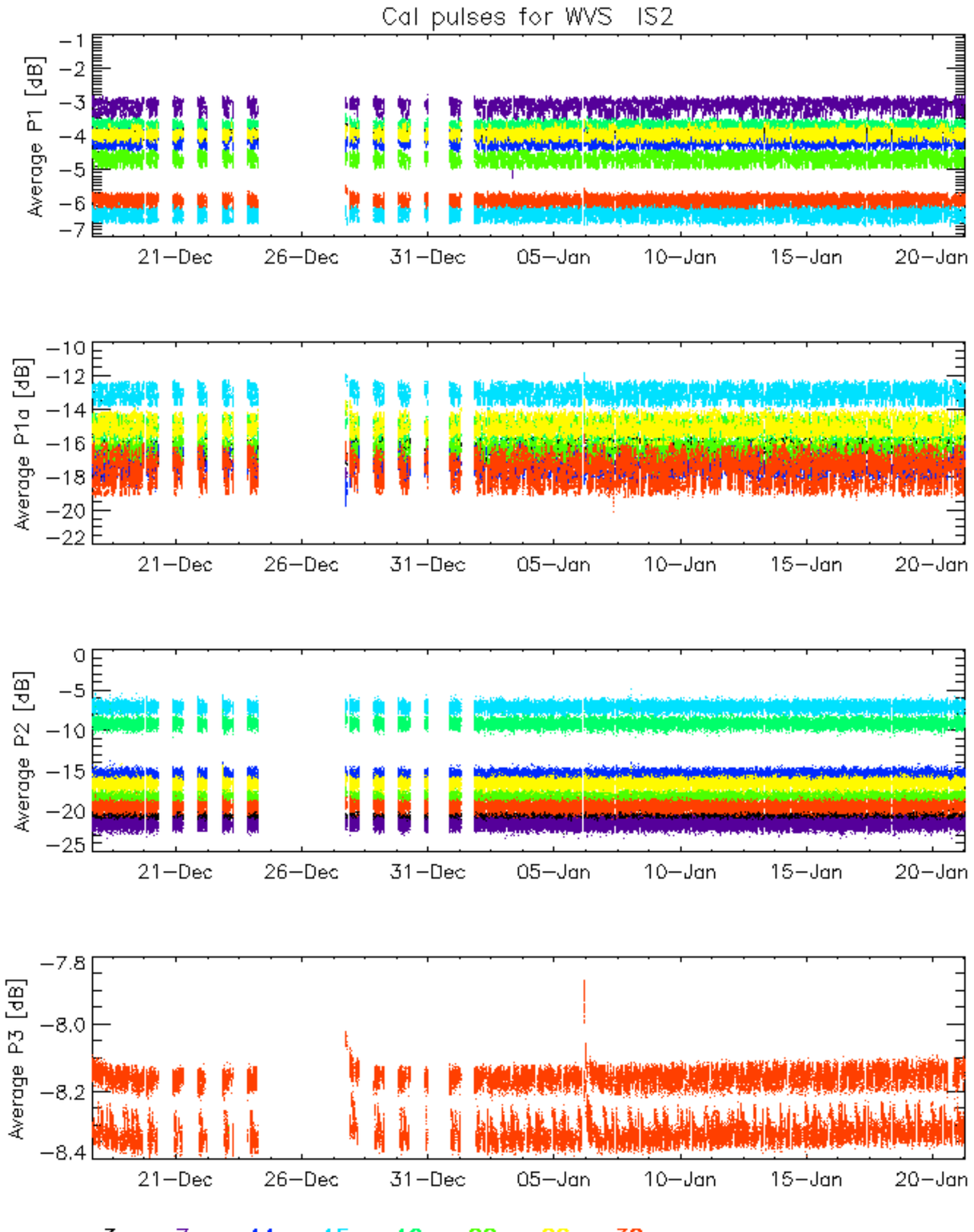
Evolution Doppler error versus ANX
☒

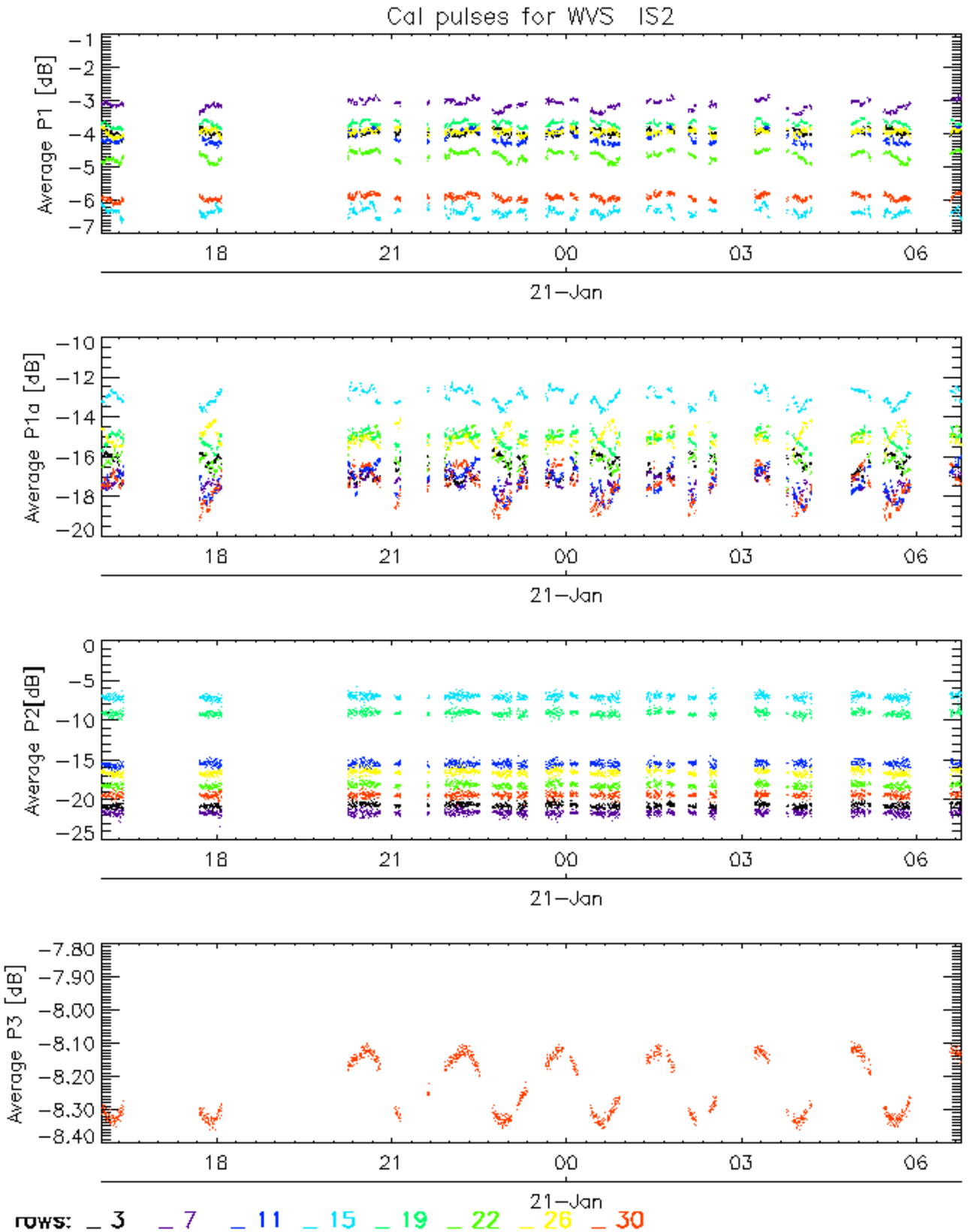

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
21−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
21−Jan
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
21−Jan
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
21−Jan
rows: _ 3 _ 7 _ 11 _ 15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

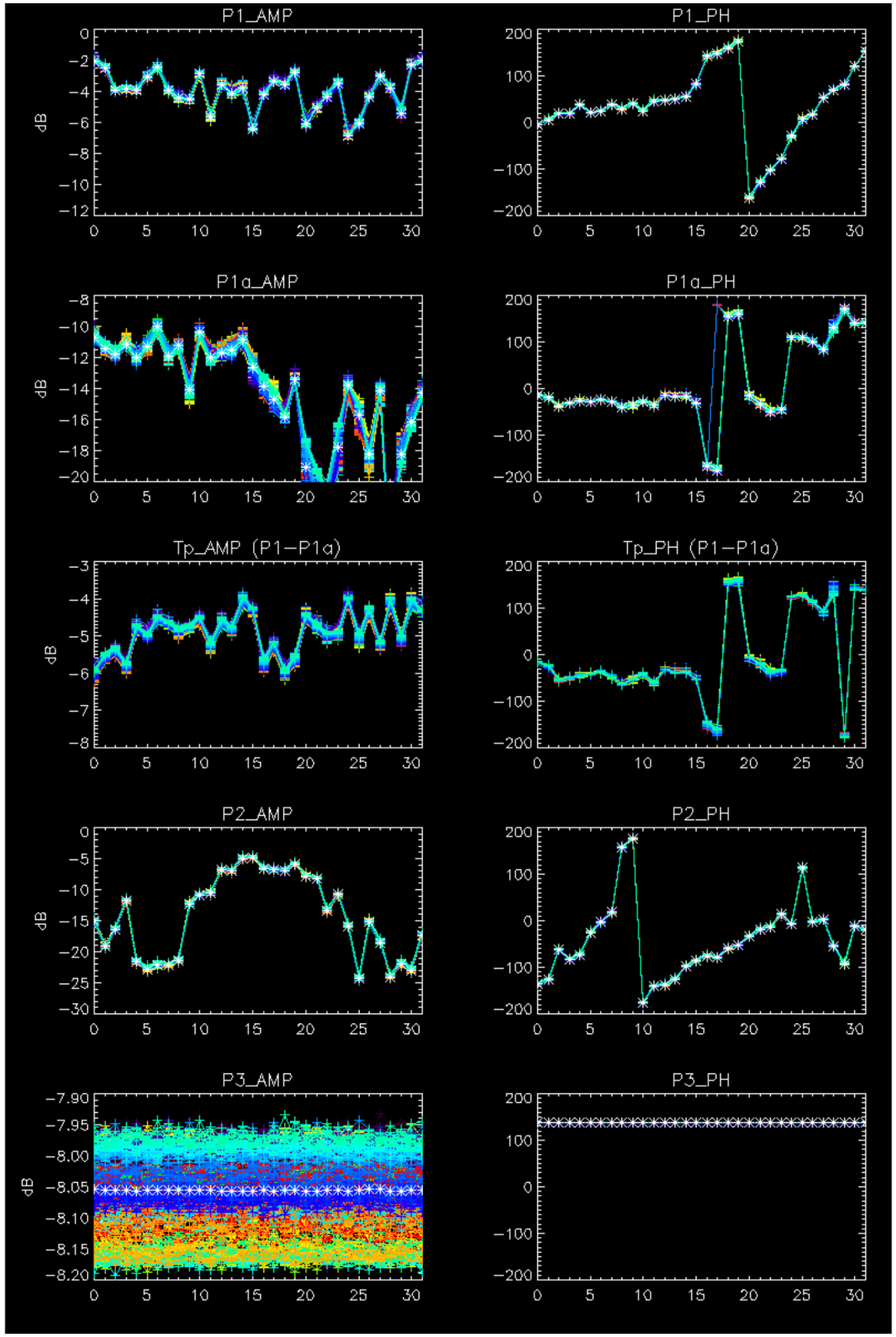

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan
15−Jan
20−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

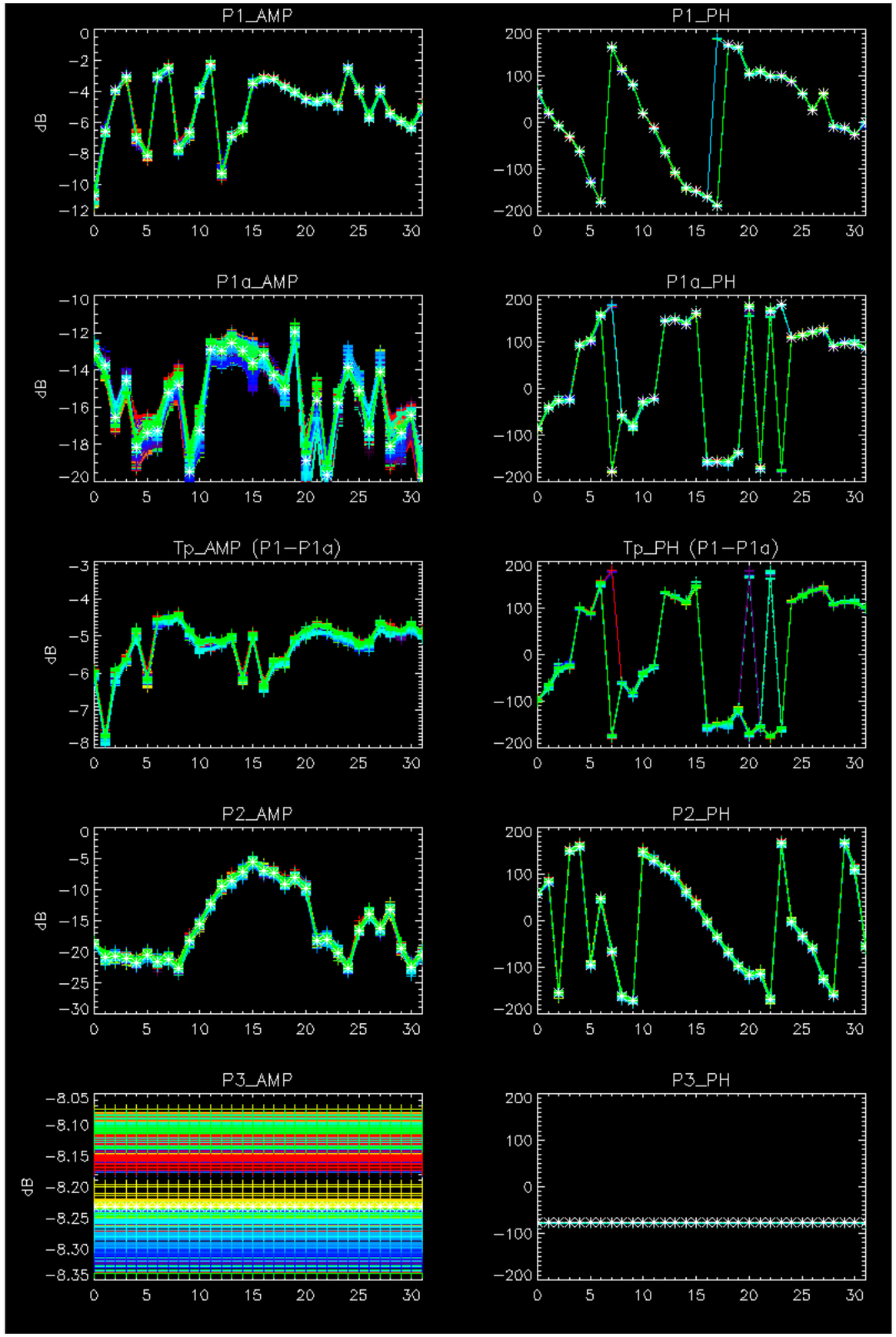

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
21−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
21−Jan
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
21−Jan
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
21−Jan
rows: _ 3 _ 7 _ 11 _ 15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


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

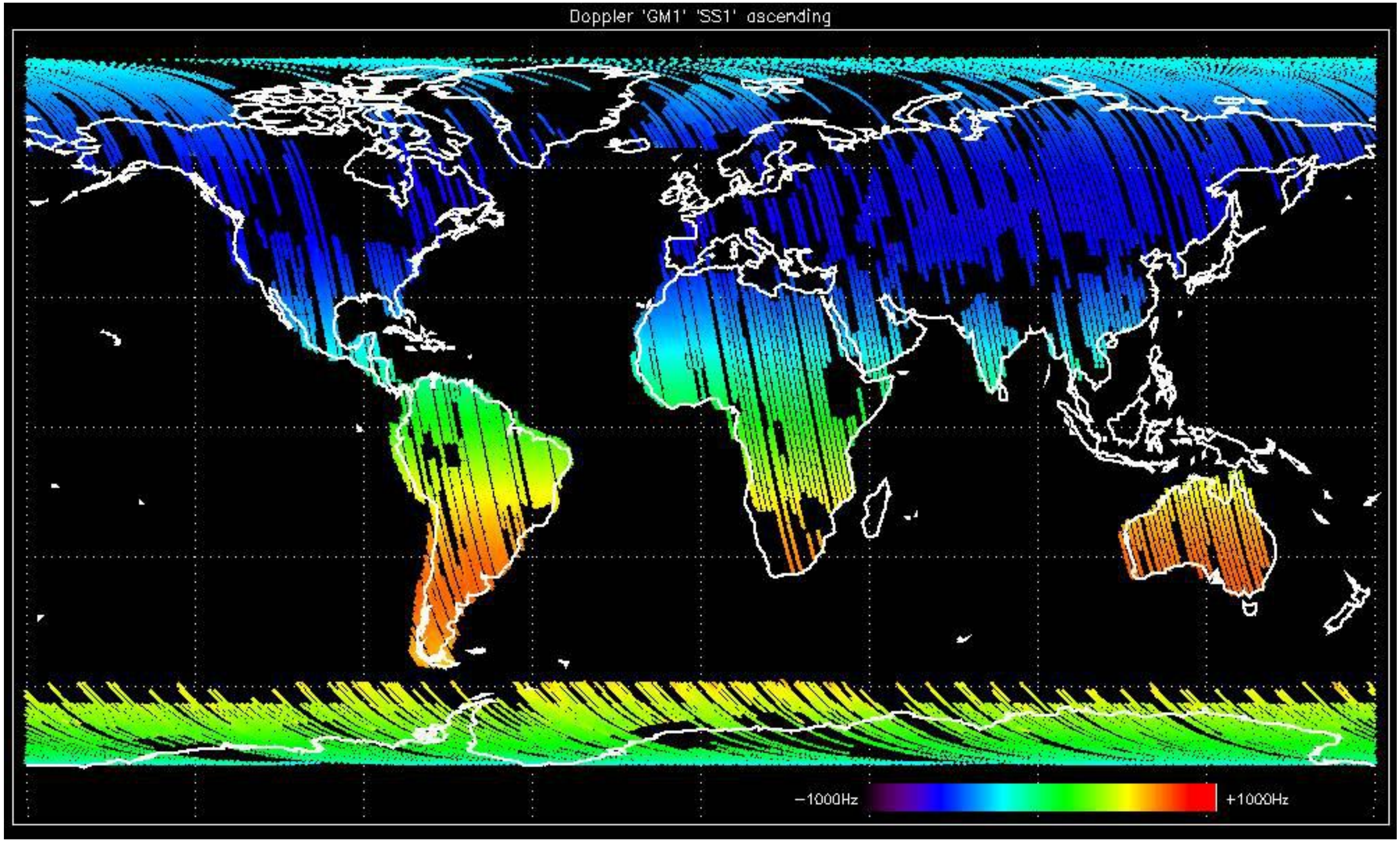
No anomalies observed.

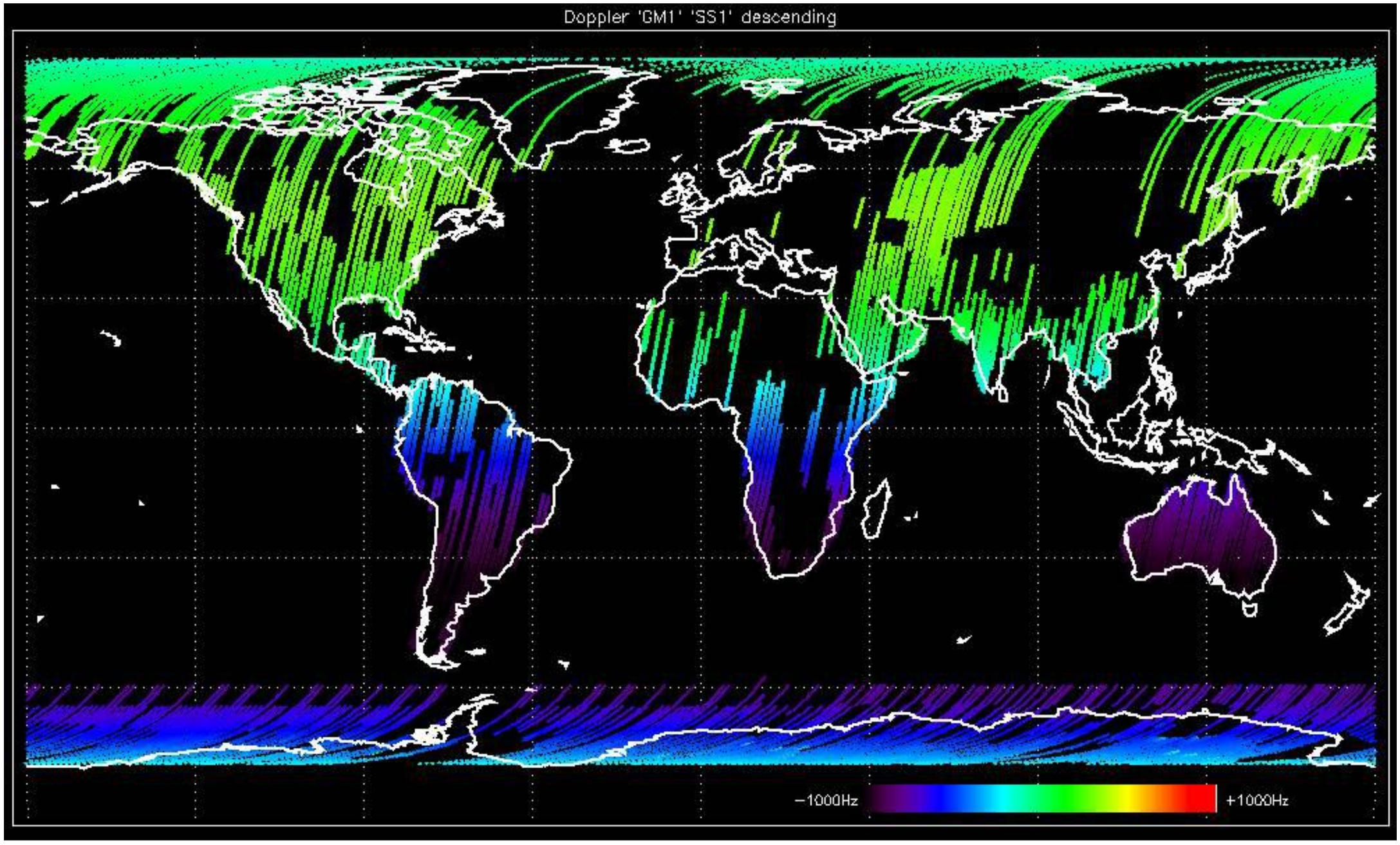

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

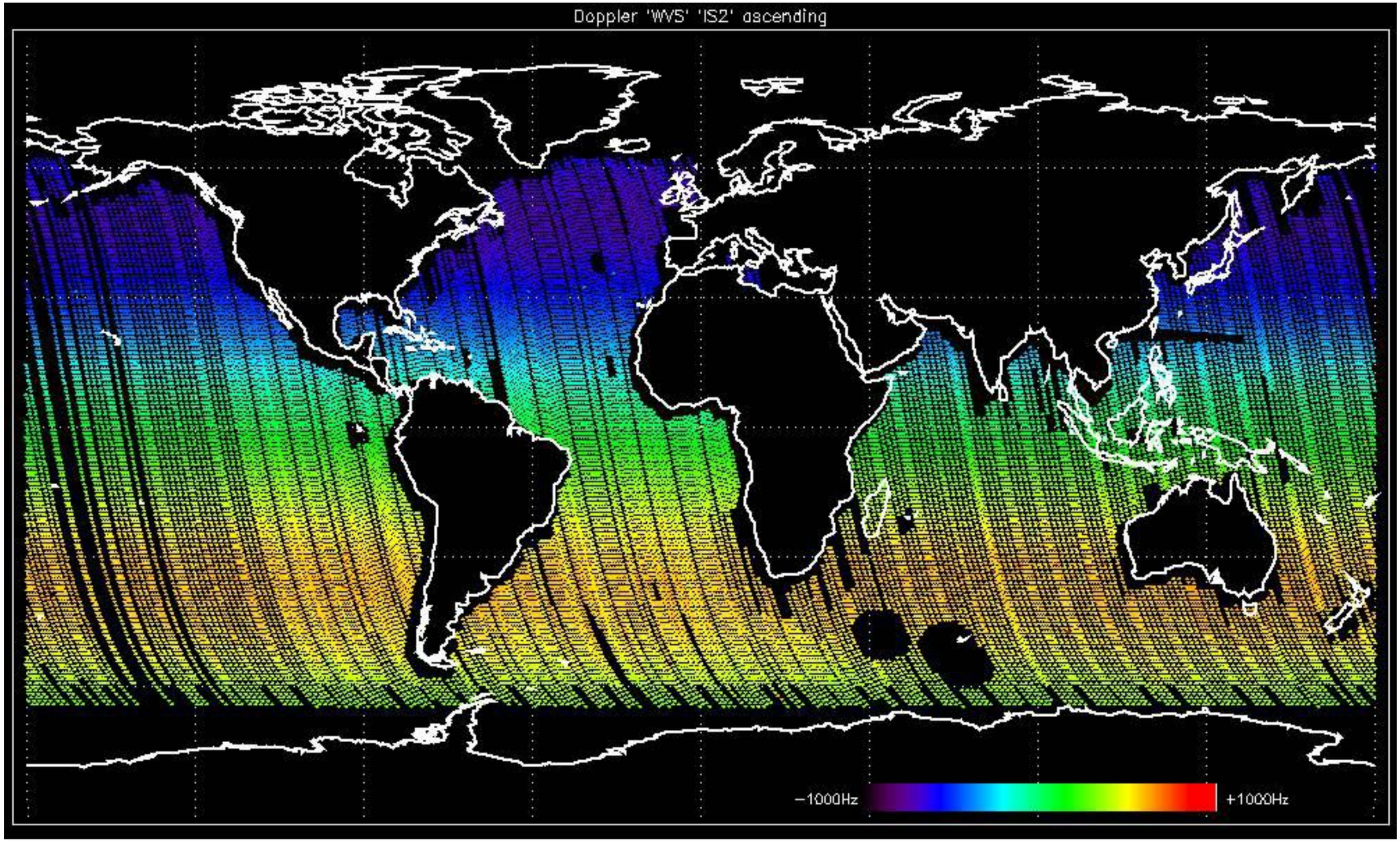

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

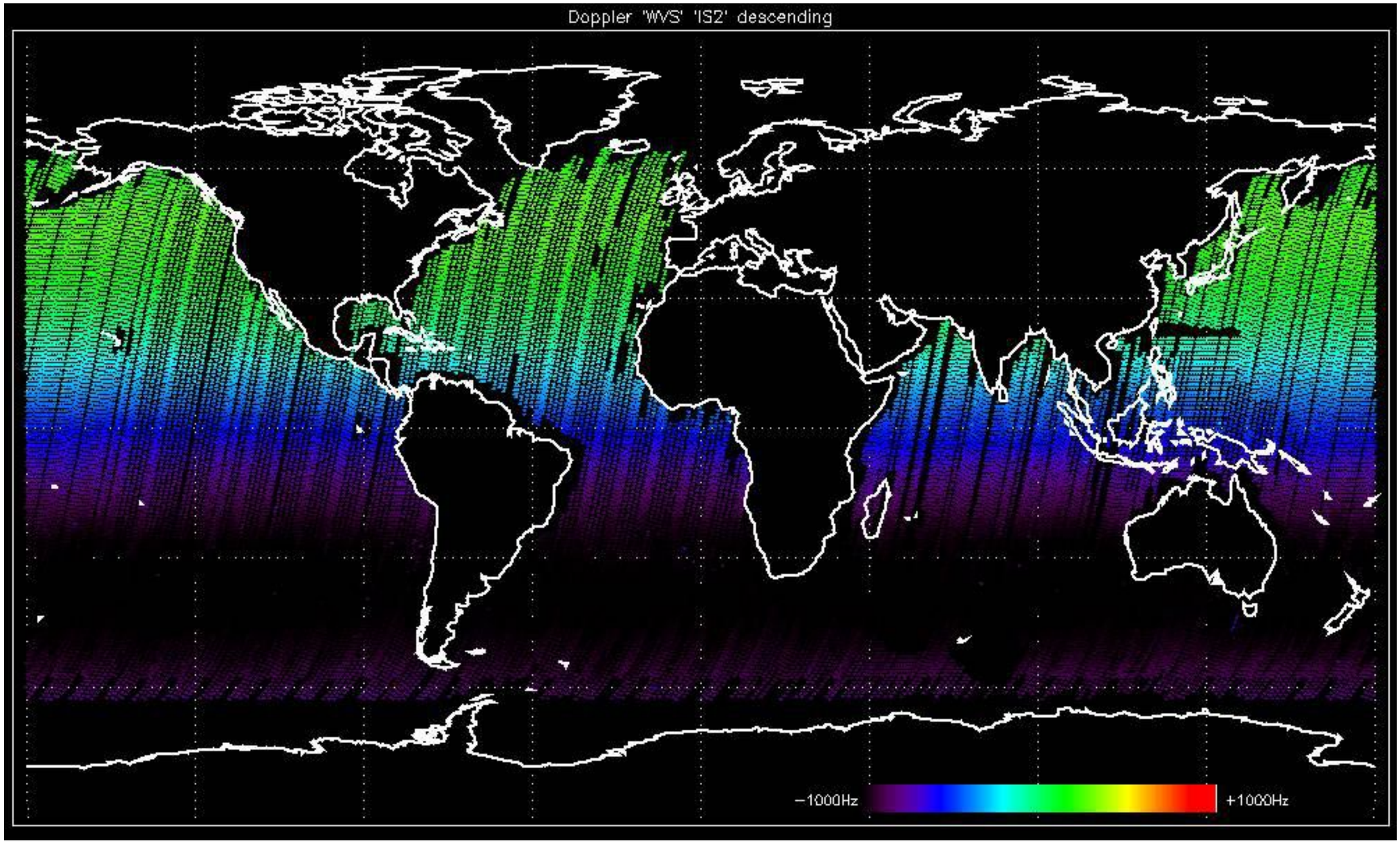
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

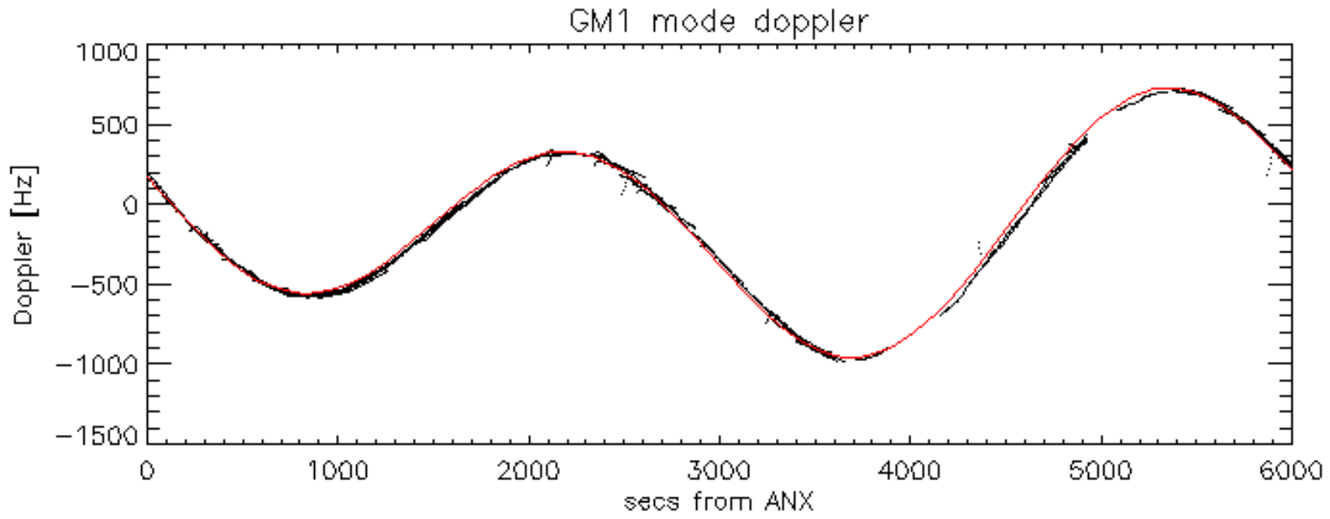
Preliminary report.The data is not yet controled

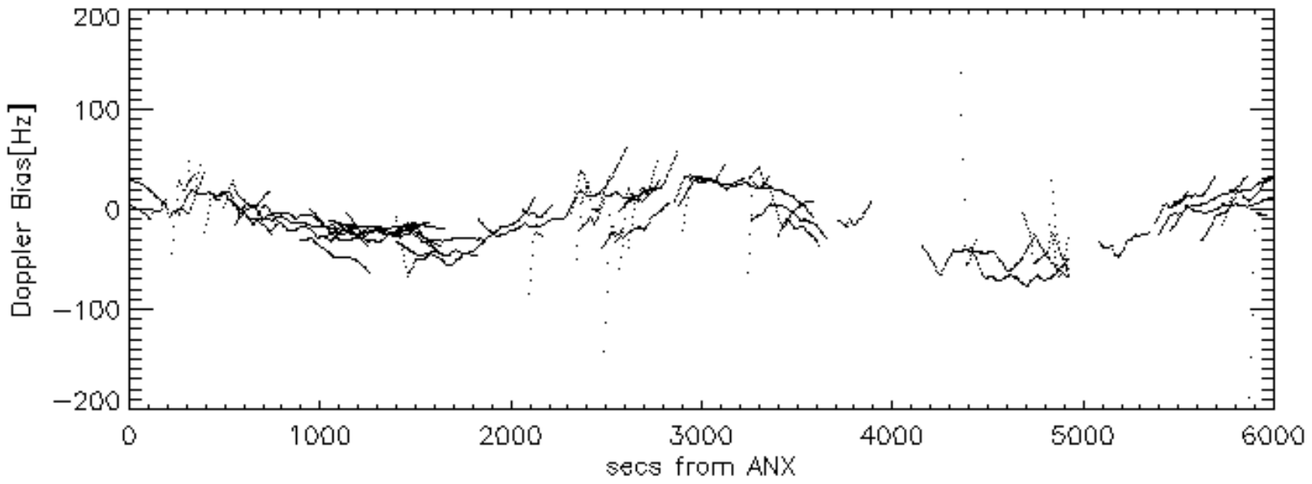

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

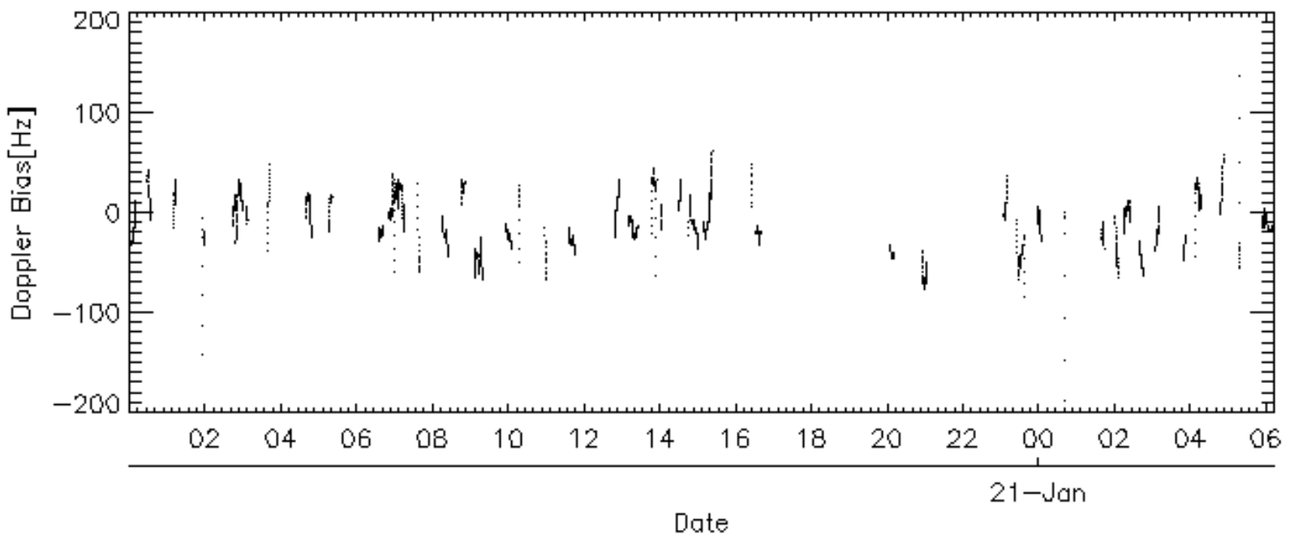

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

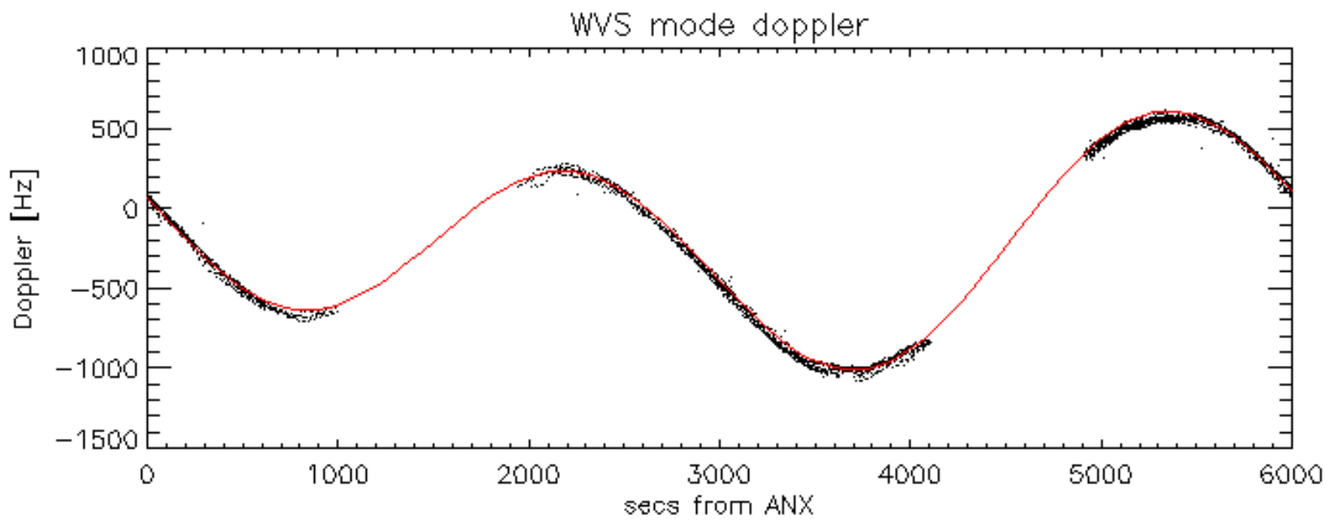

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

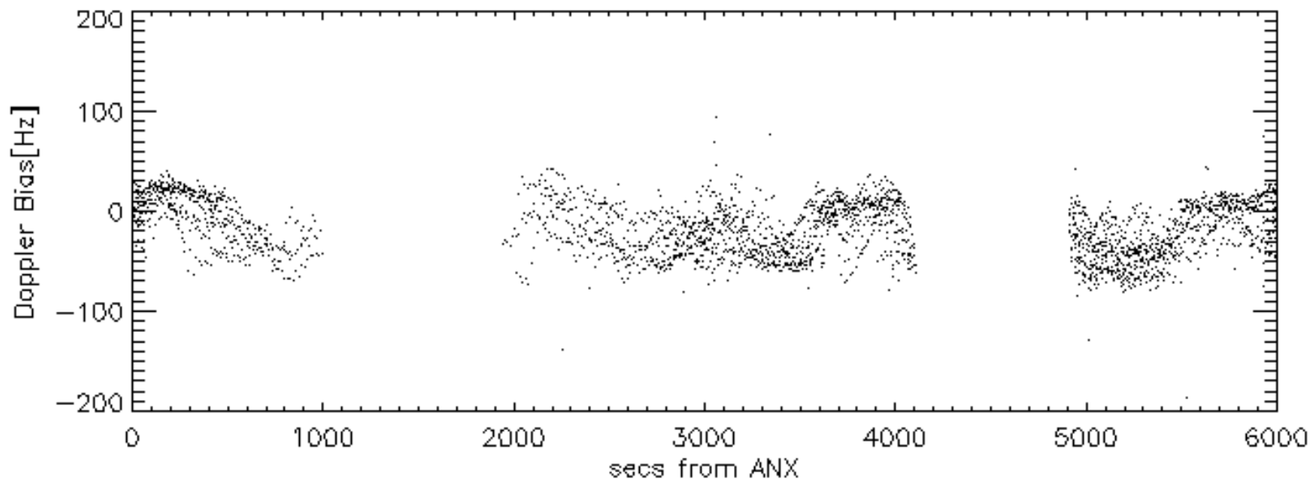

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

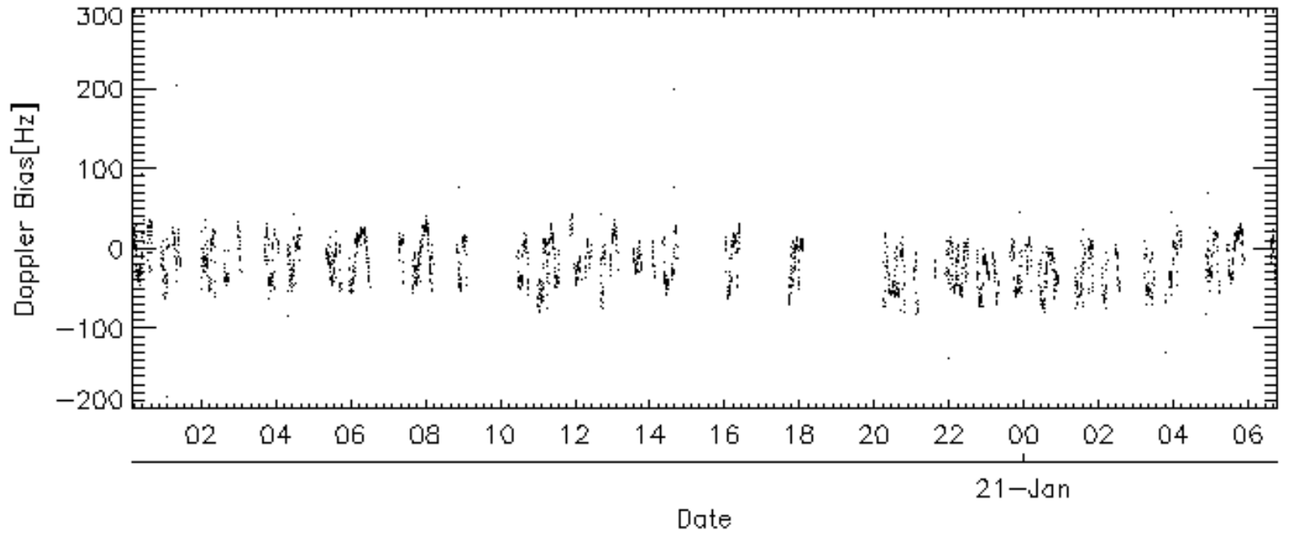

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

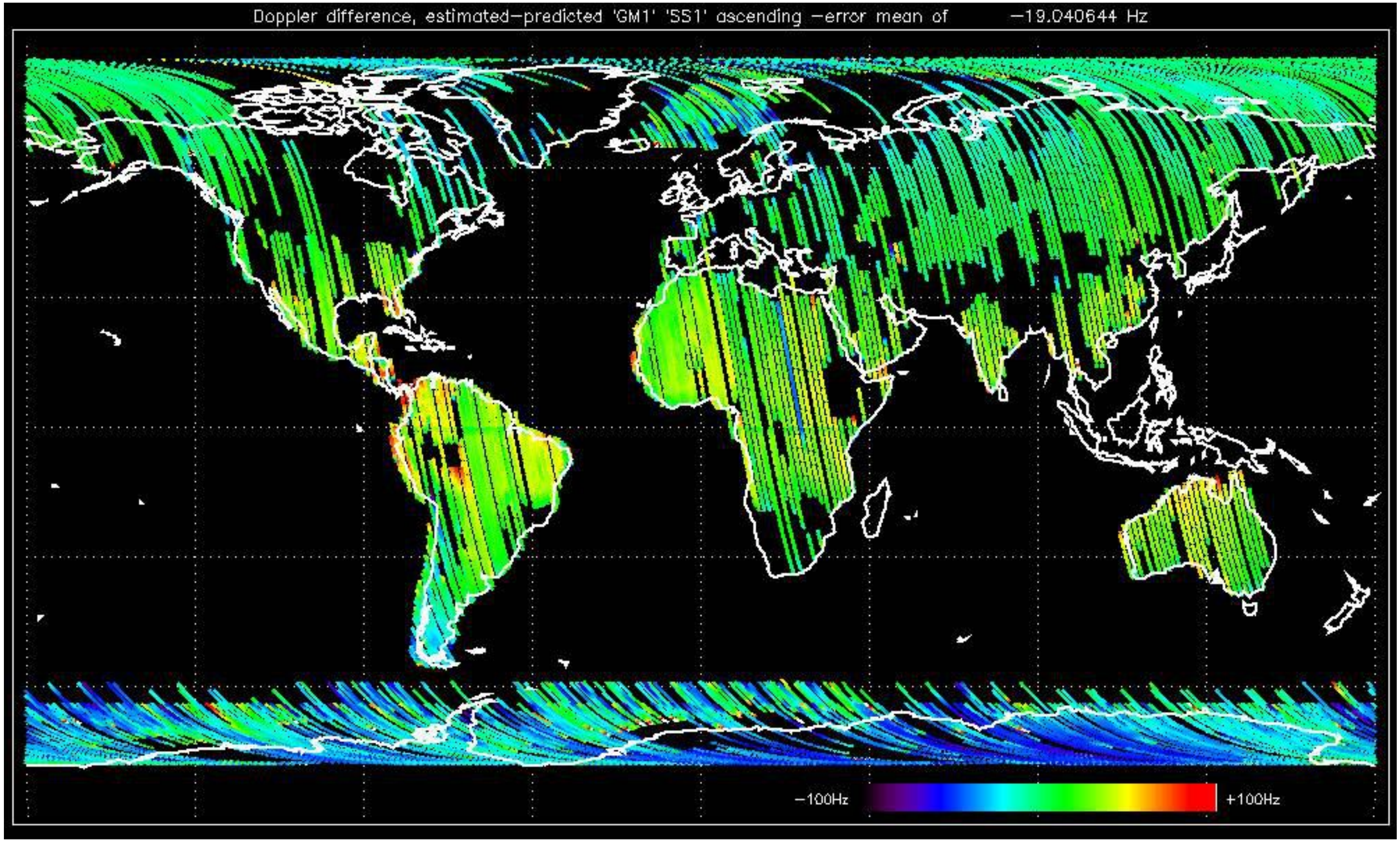

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

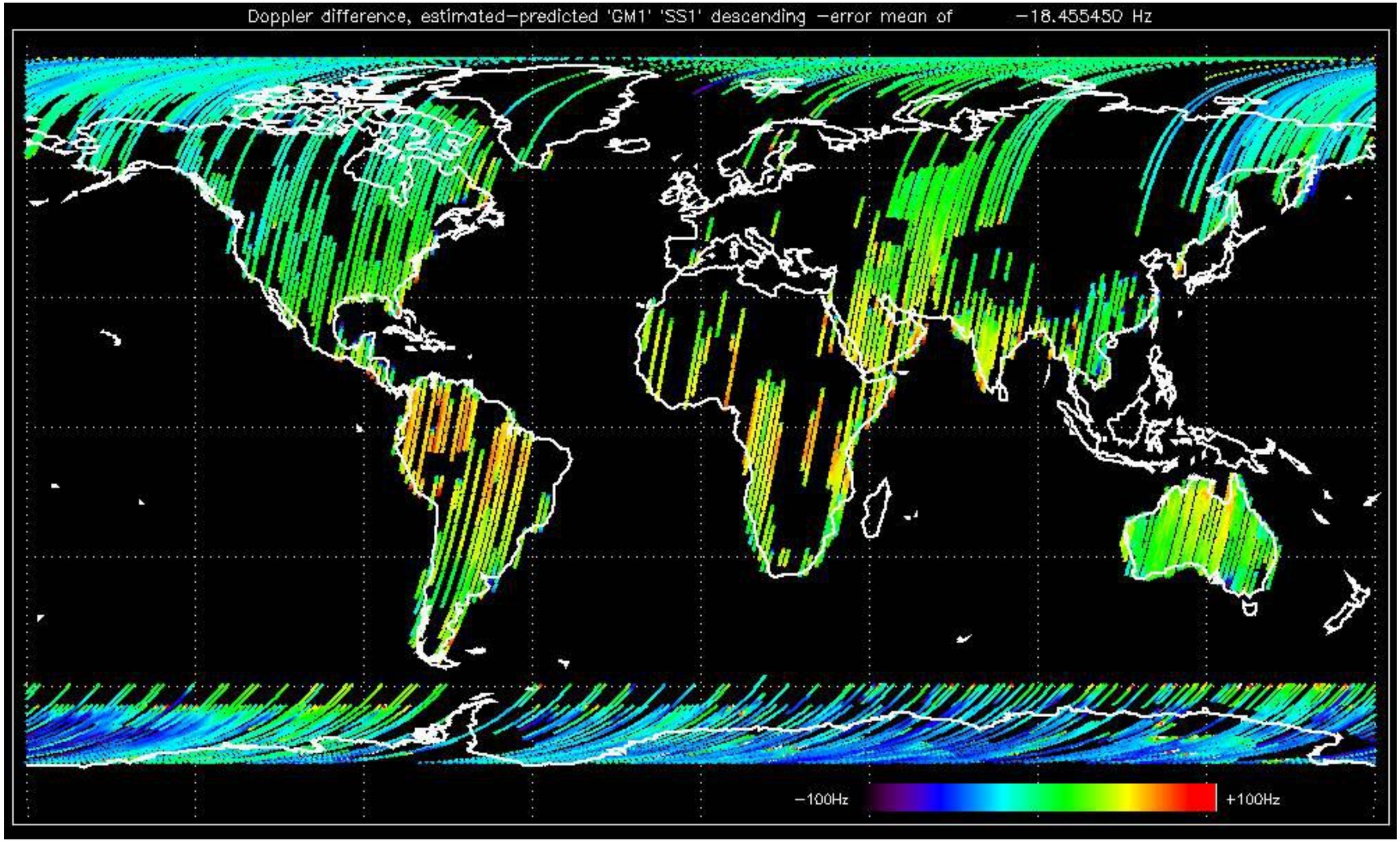

Doppler Bias[Hz]
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
21−Jan
Date

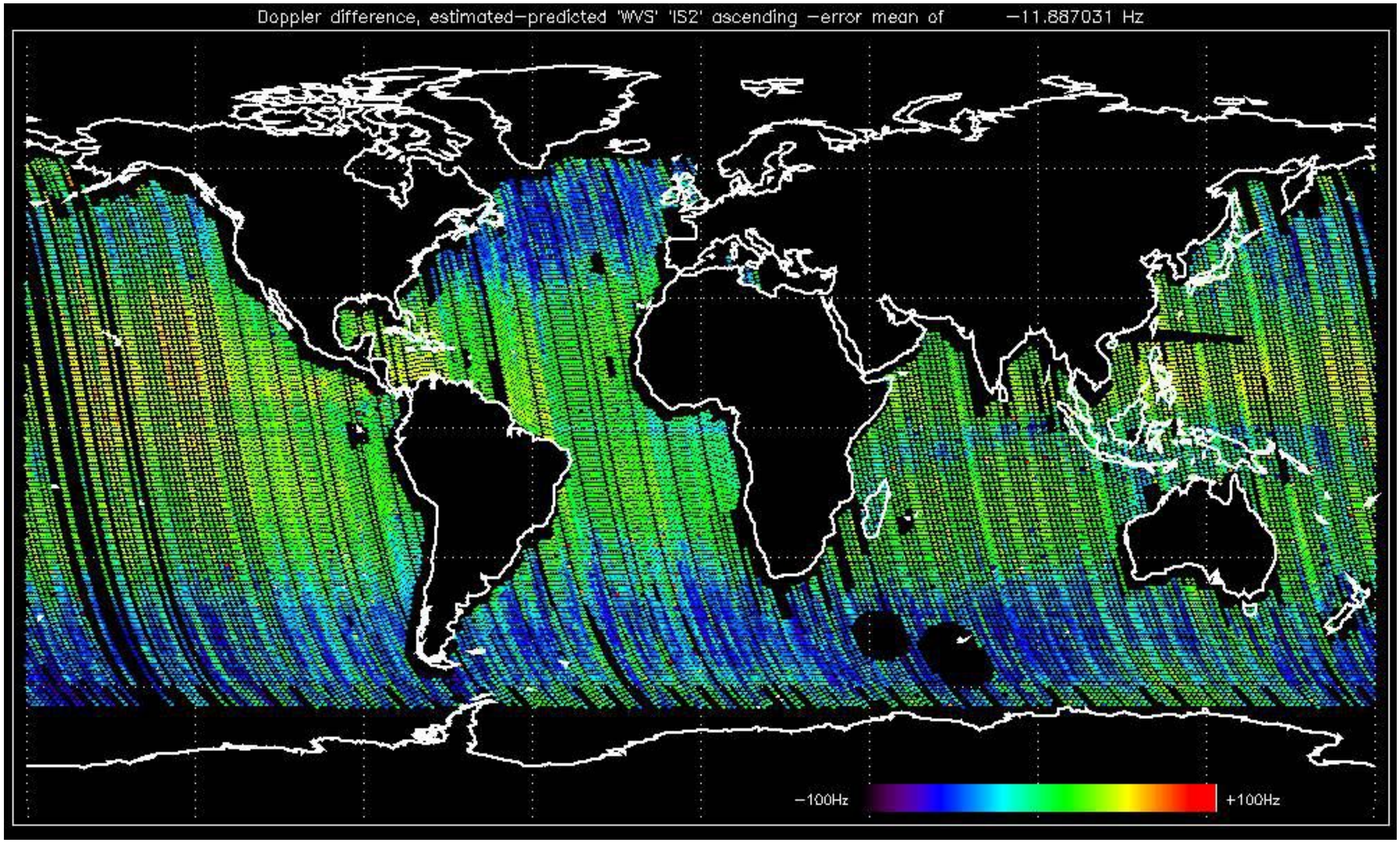

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

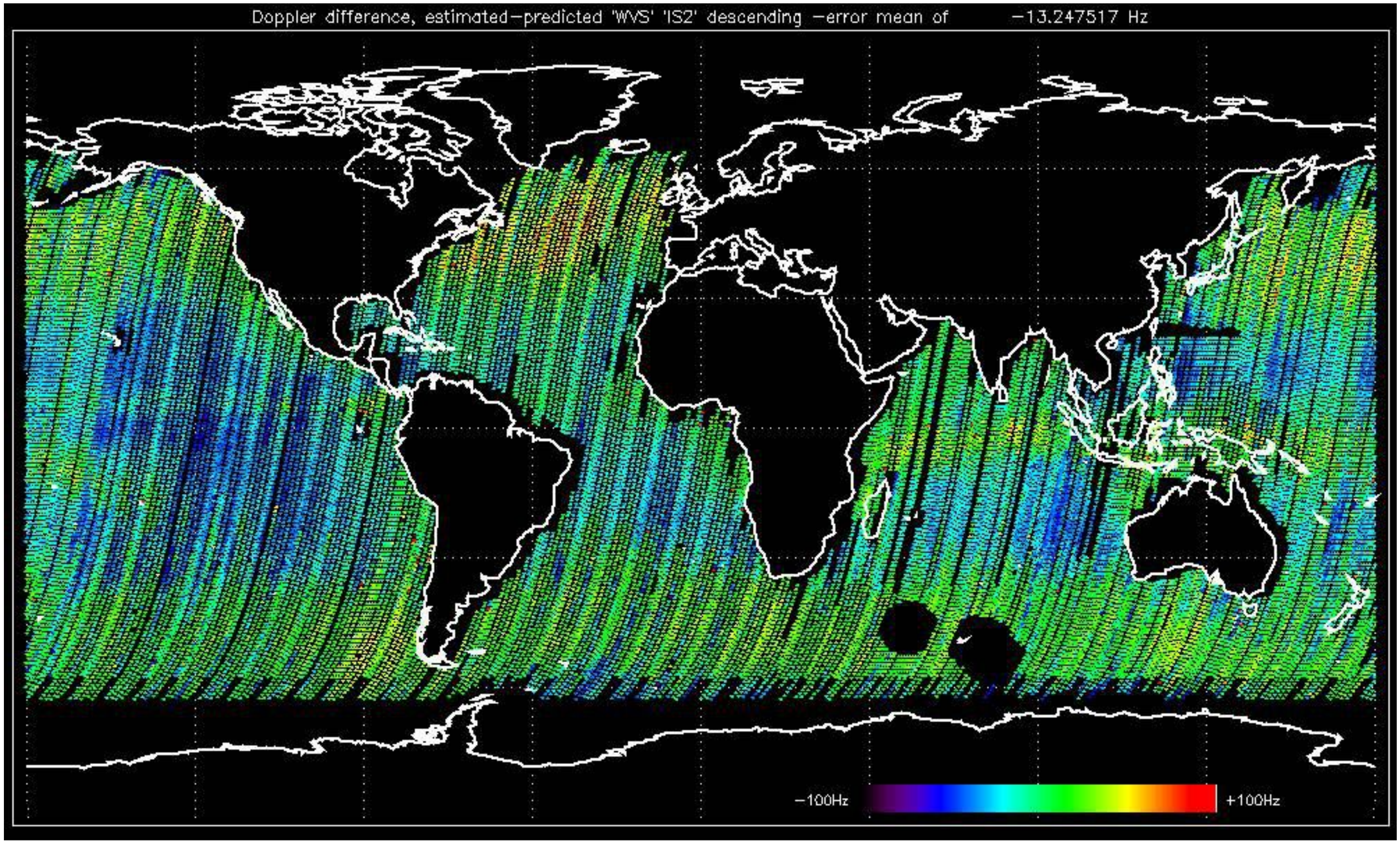

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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−Jan
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −19.040644 Hz
−100Hz
+100Hz

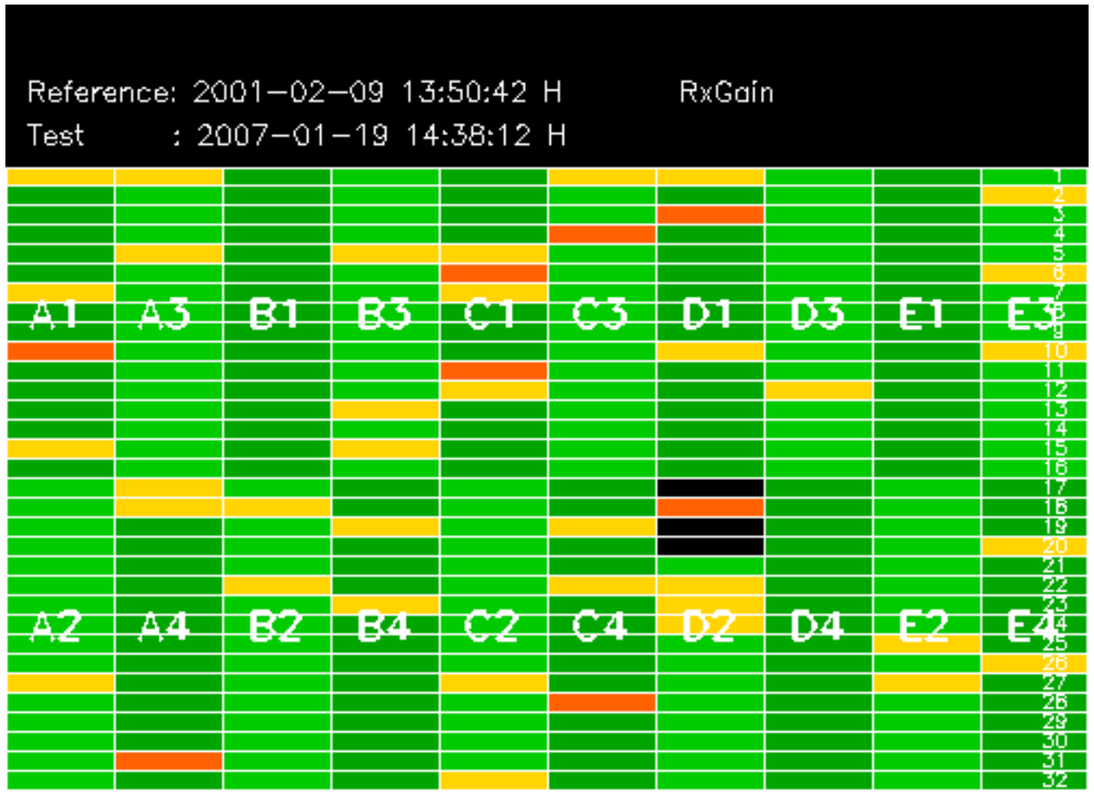

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -18.455450 Hz
-100Hz
+100Hz

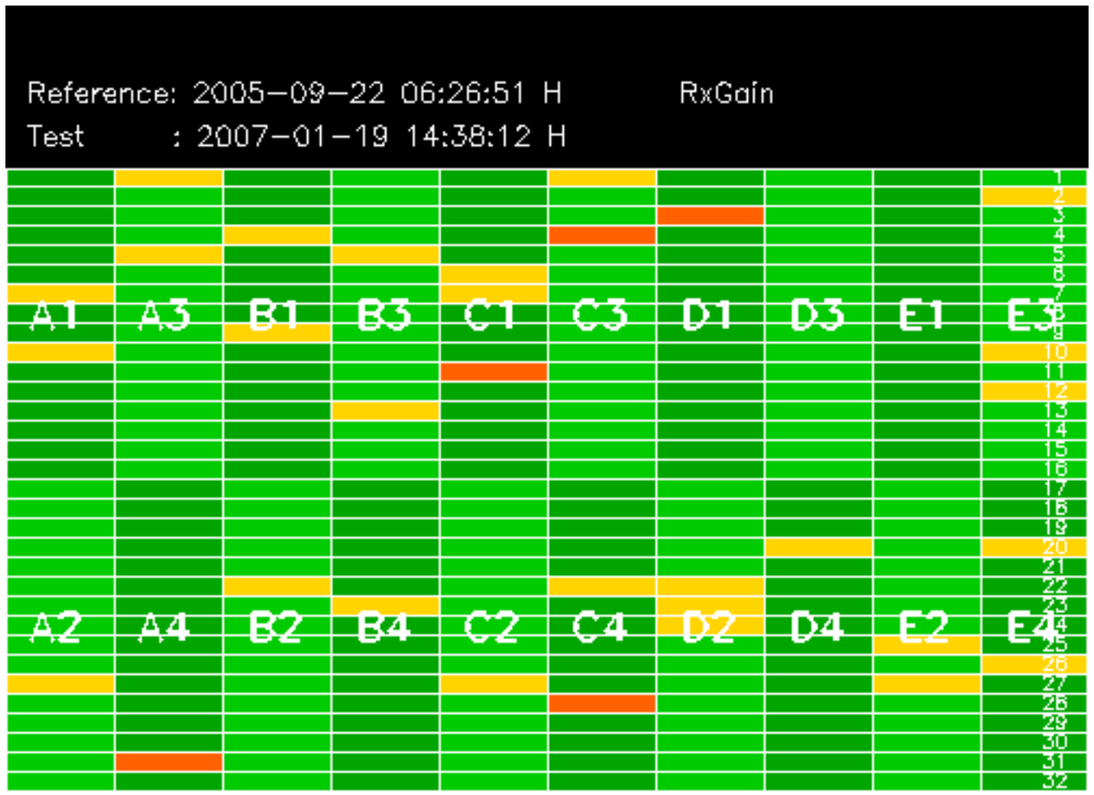

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −11.887031 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −13.247517 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2007-01-19 14:38:12 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-19 14:38:12 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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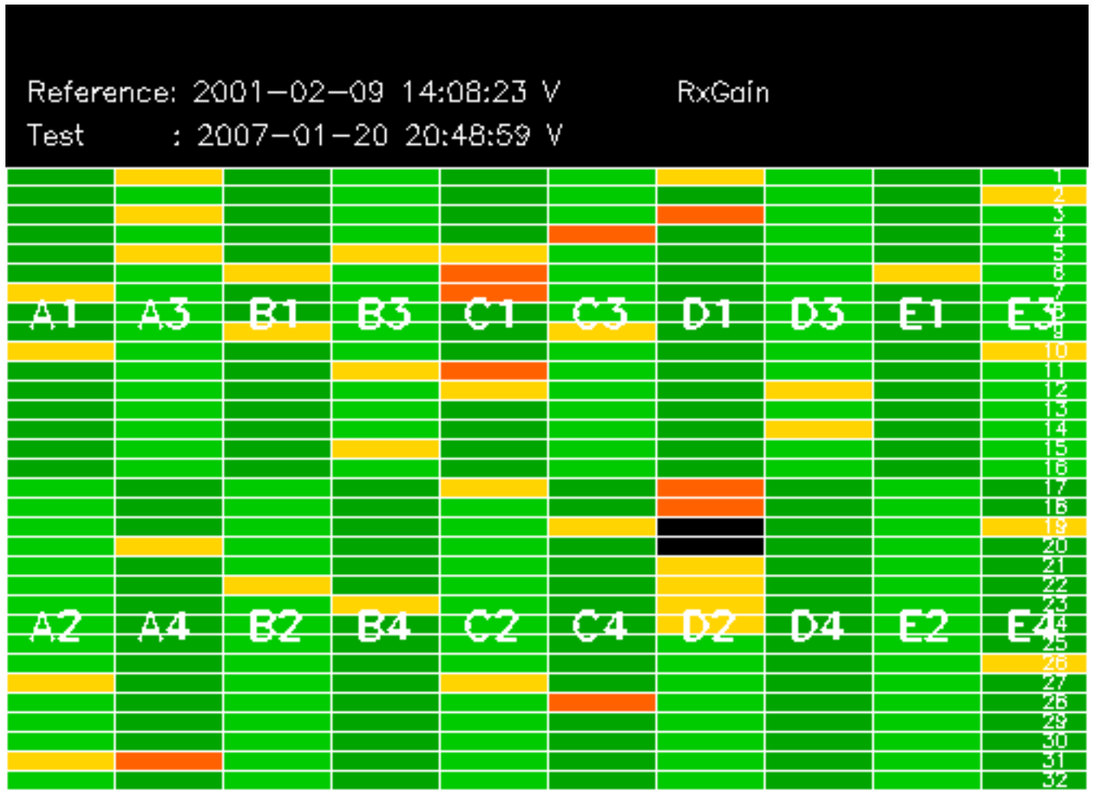
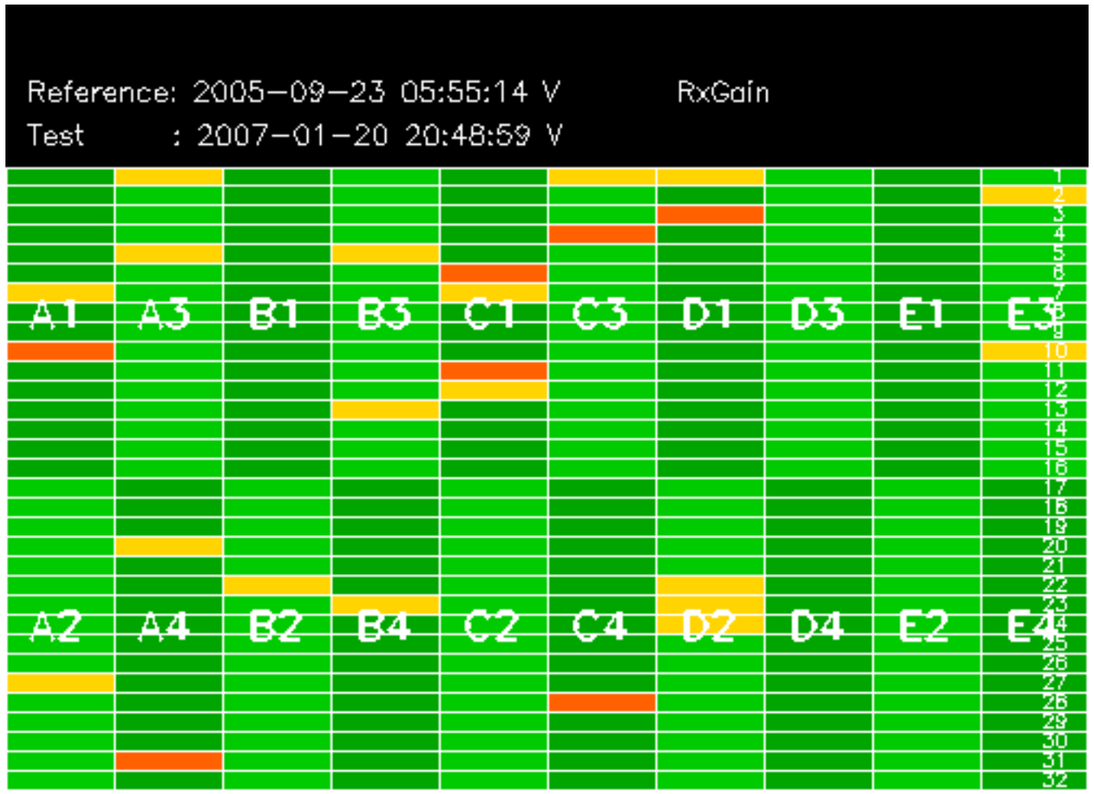

Reference: 2001-02-09 14:08:23 V
Test : 2007-01-20 20:48:59 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-01-20 20:48:59 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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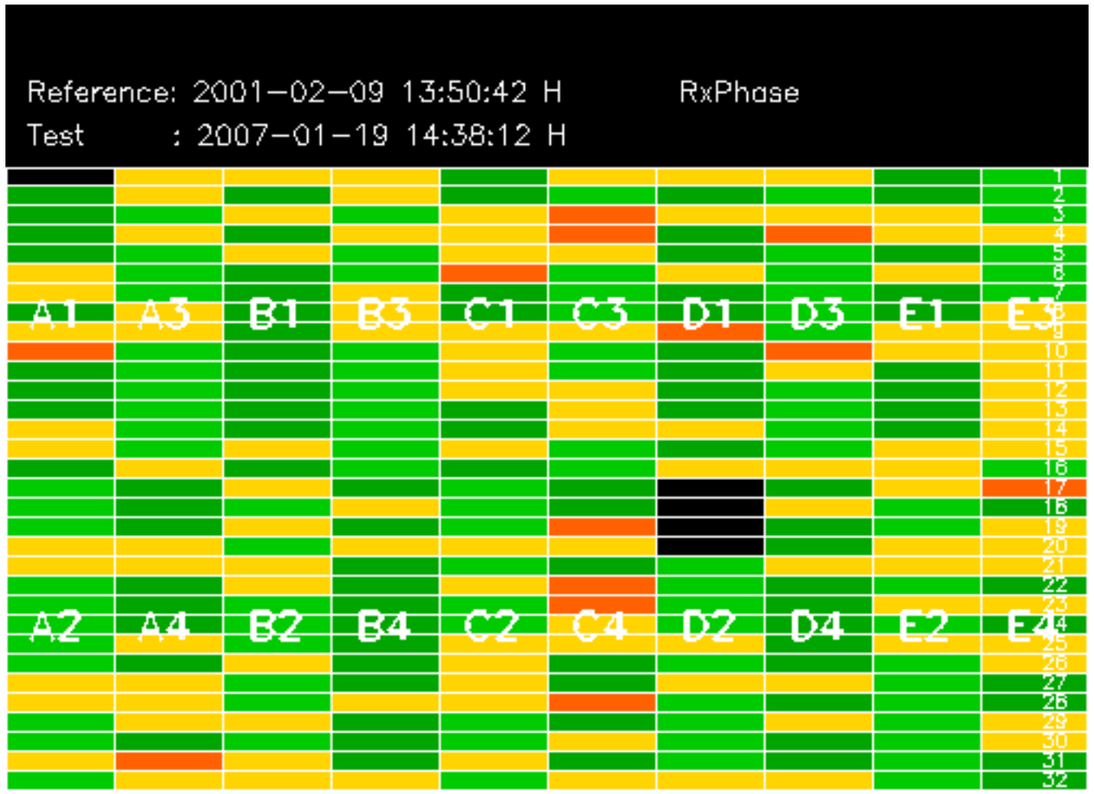
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2007-01-19 14:38:12 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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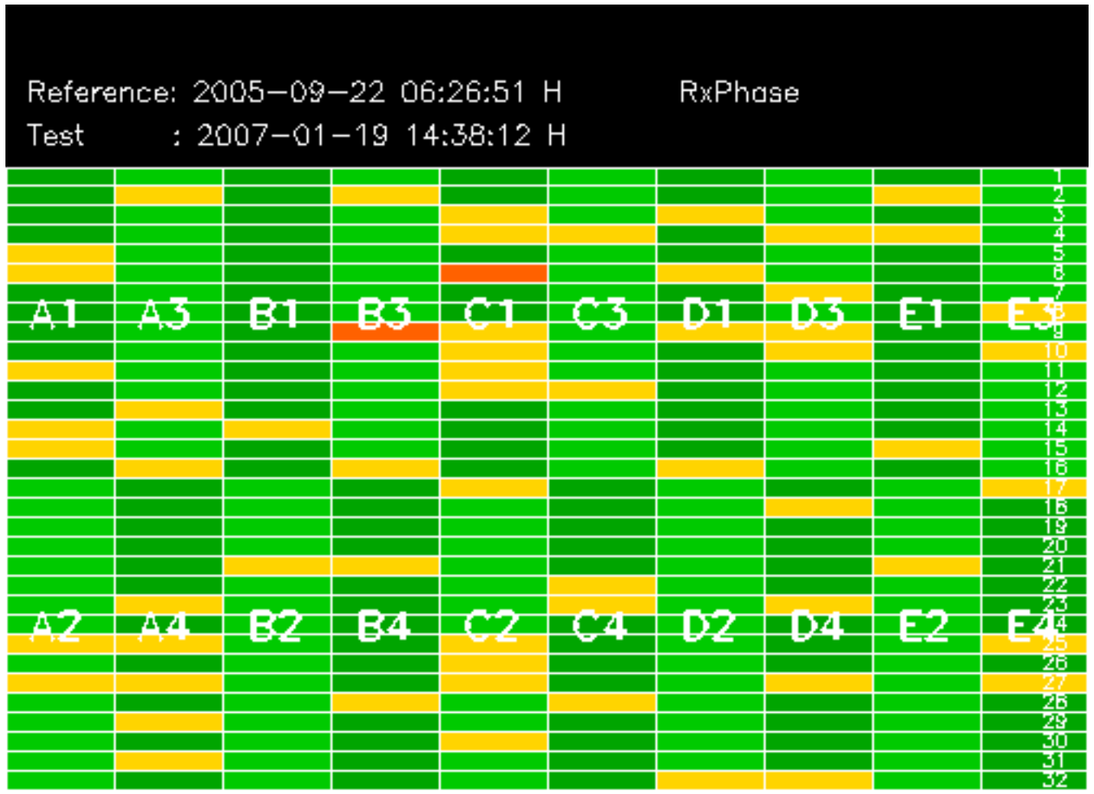
Reference: 2005-09-22 06:26:51 H
RxPhase
Test : 2007-01-19 14:38:12 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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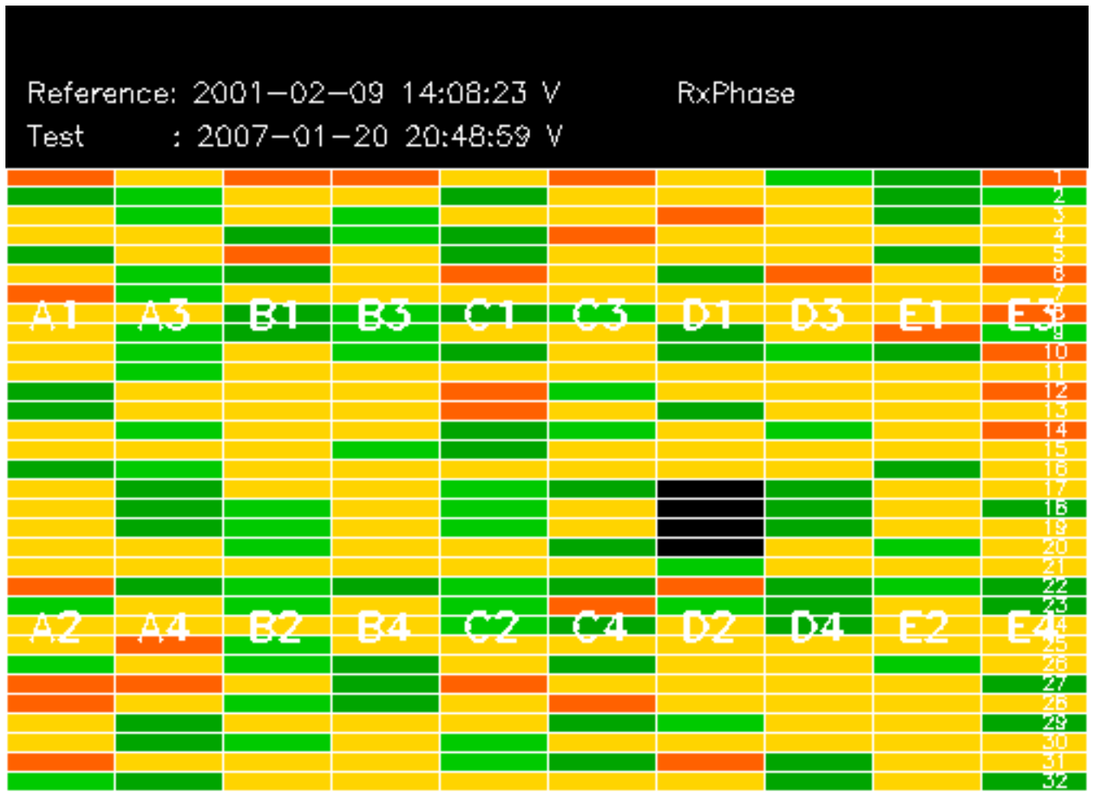
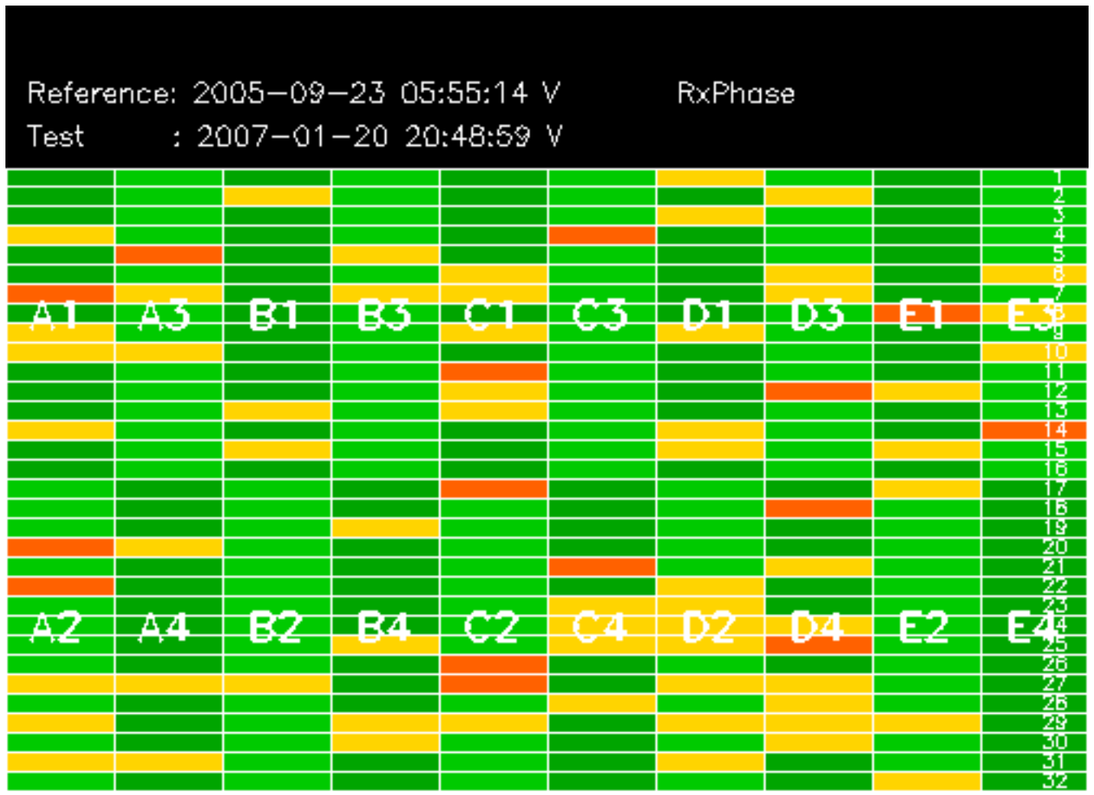

Reference: 2001-02-09 14:08:23 V
Test : 2007-01-20 20:48:59 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-01-20 20:48:59 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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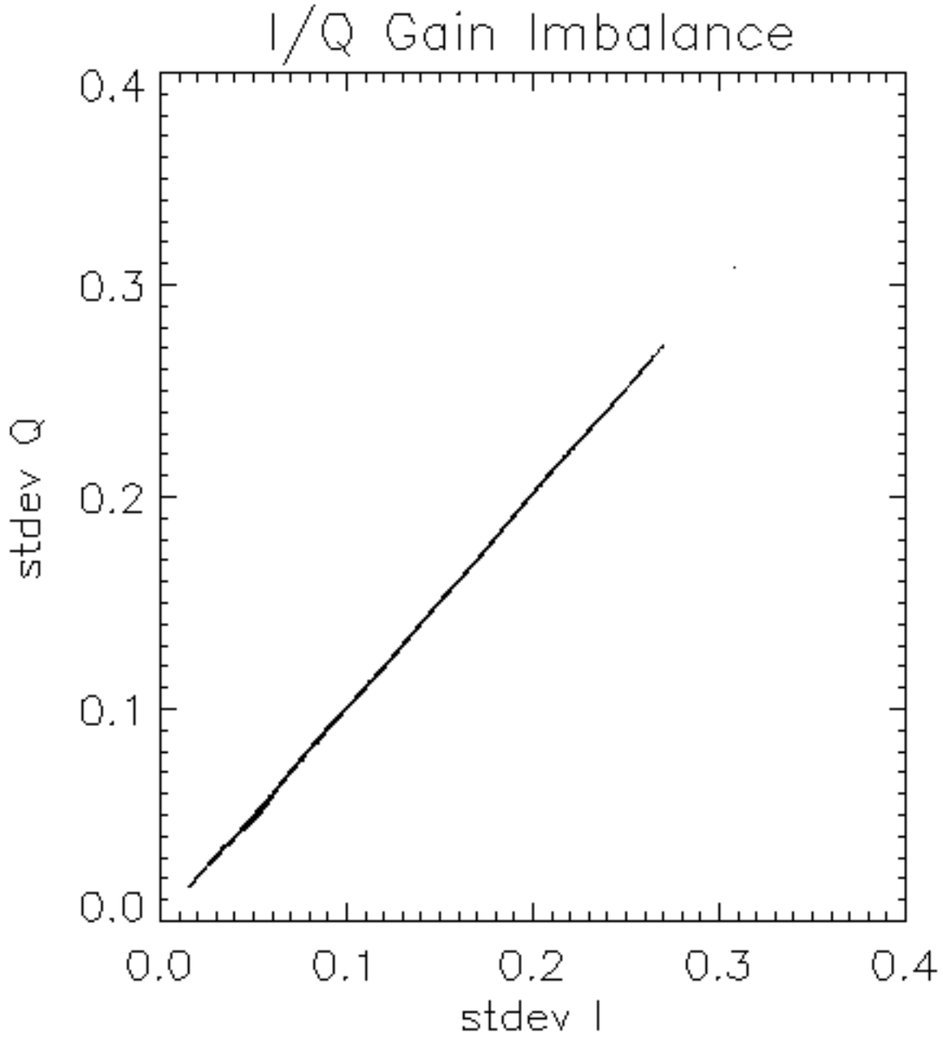
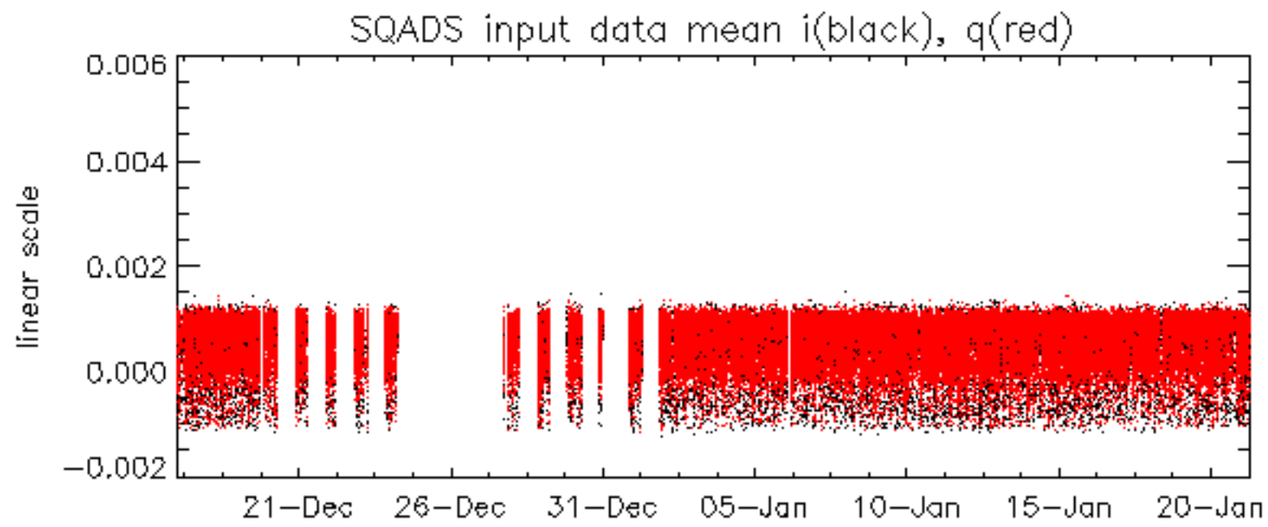
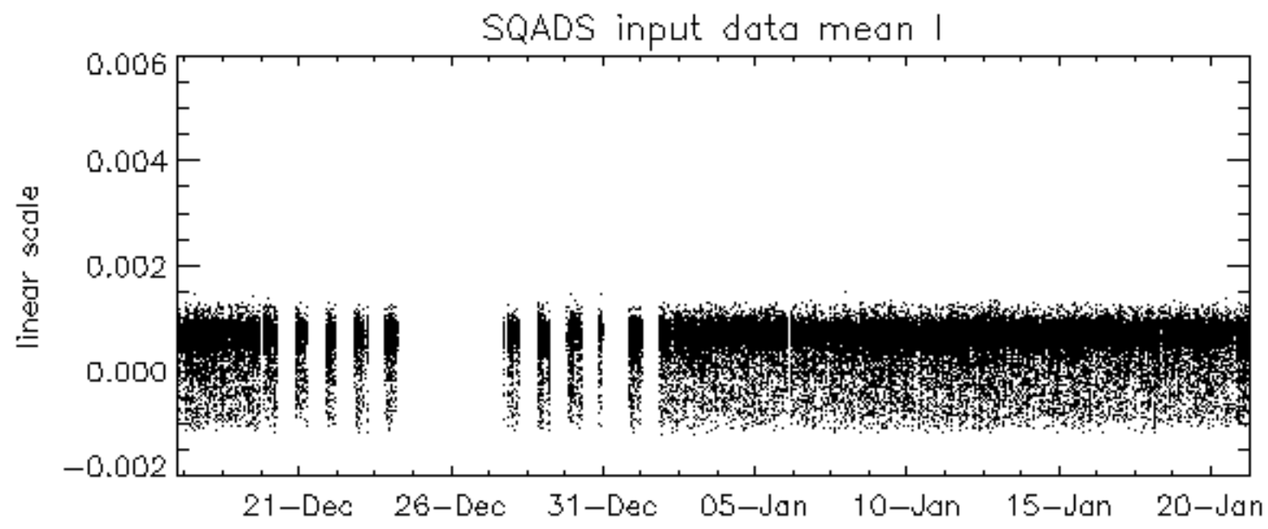
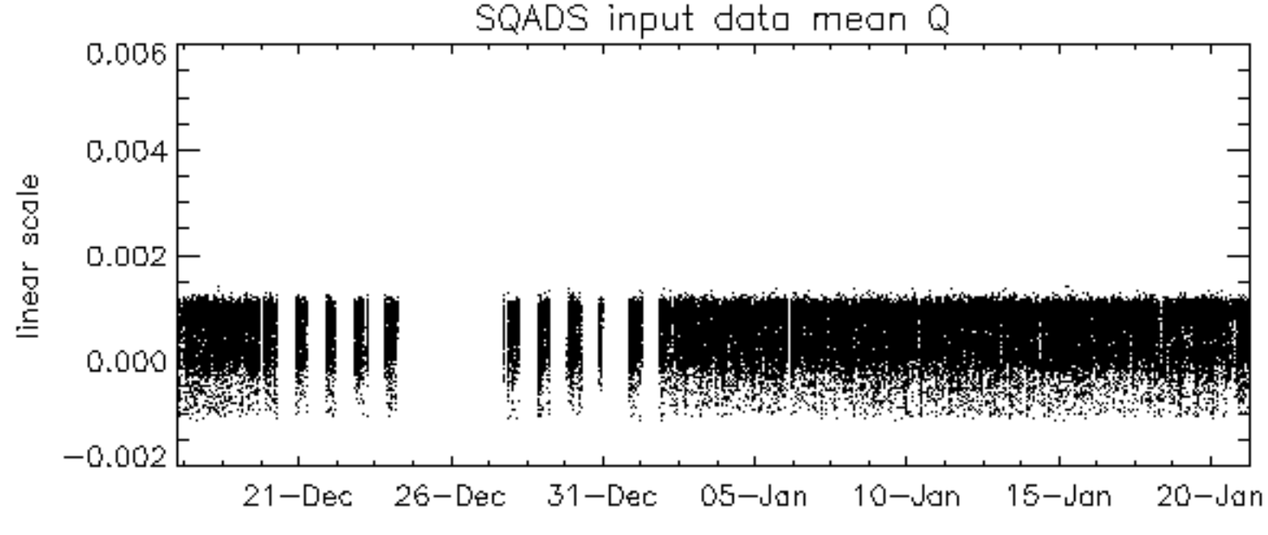
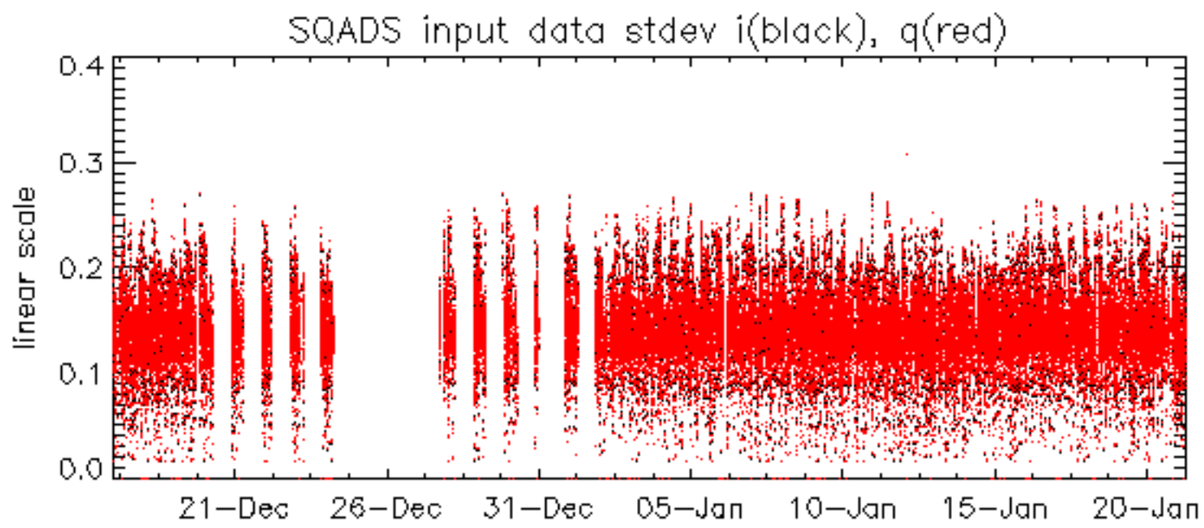
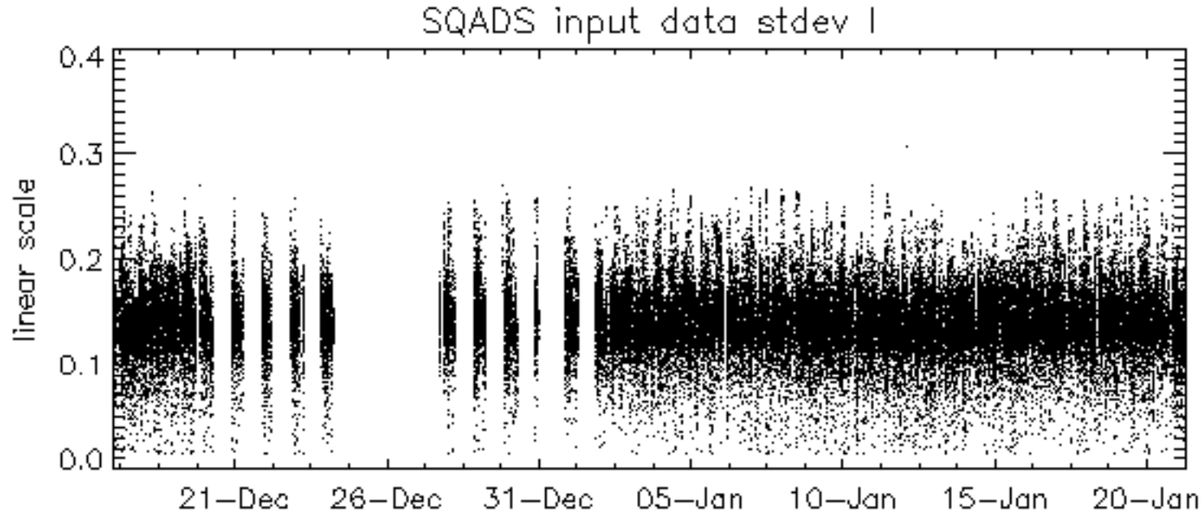

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

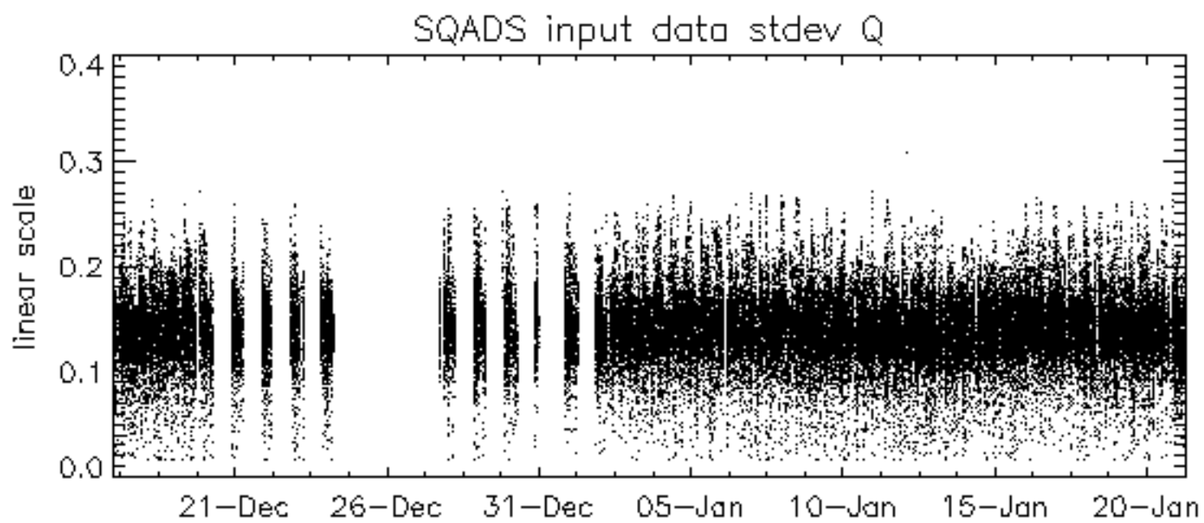

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan
15−Jan
20−Jan

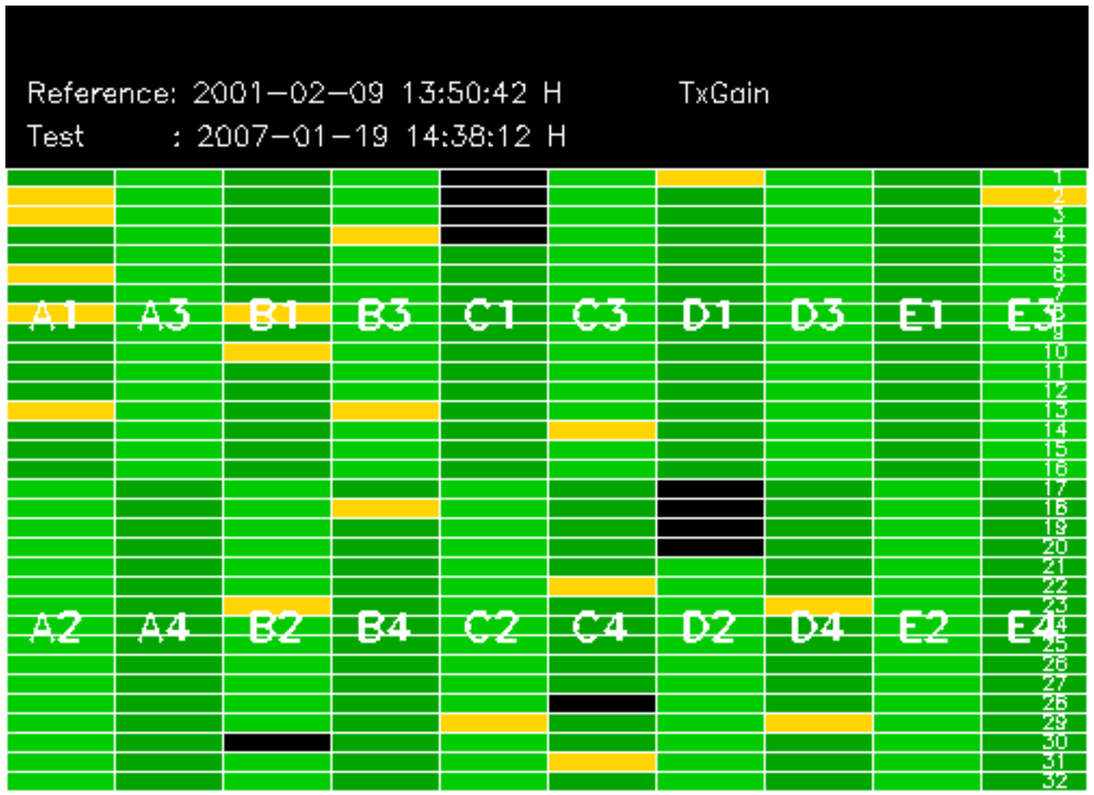

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan
15−Jan
20−Jan

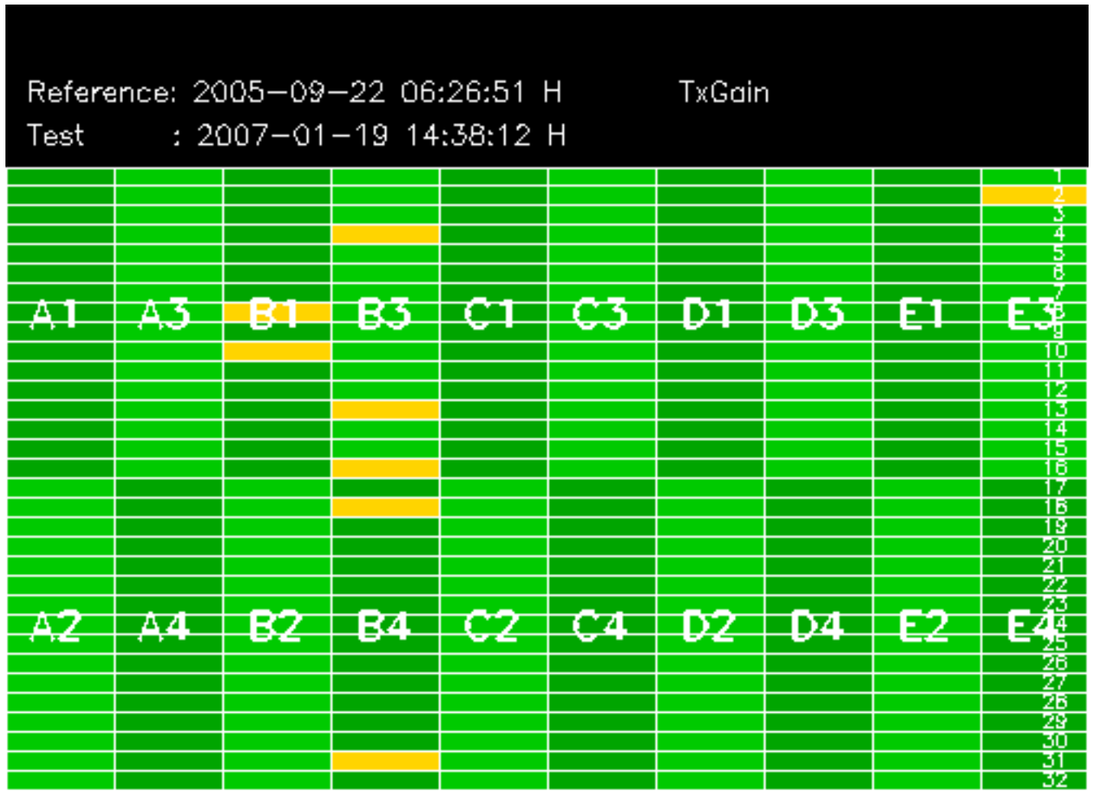

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Dec
26−Dec
31−Dec
05−Jan
10−Jan
15−Jan
20−Jan


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2007-01-19 14:38:12 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-19 14:38:12 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
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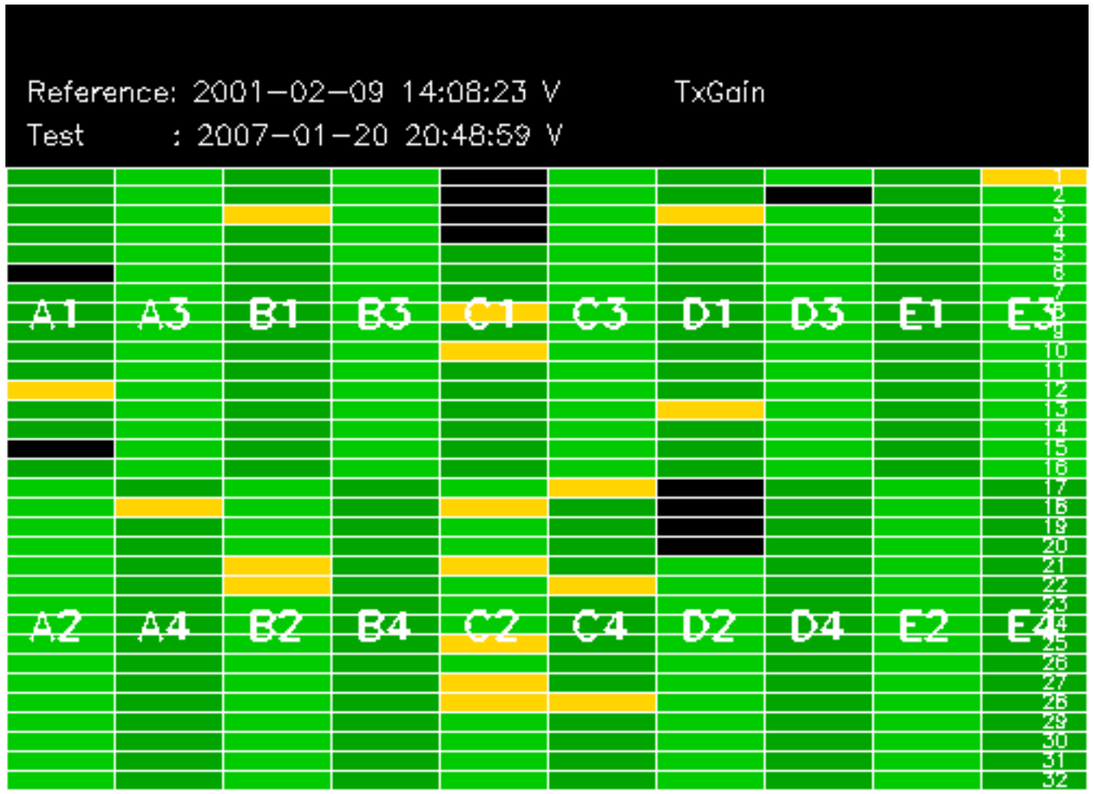
Reference: 2001-02-09 14:08:23 V
Test : 2007-01-20 20:48:59 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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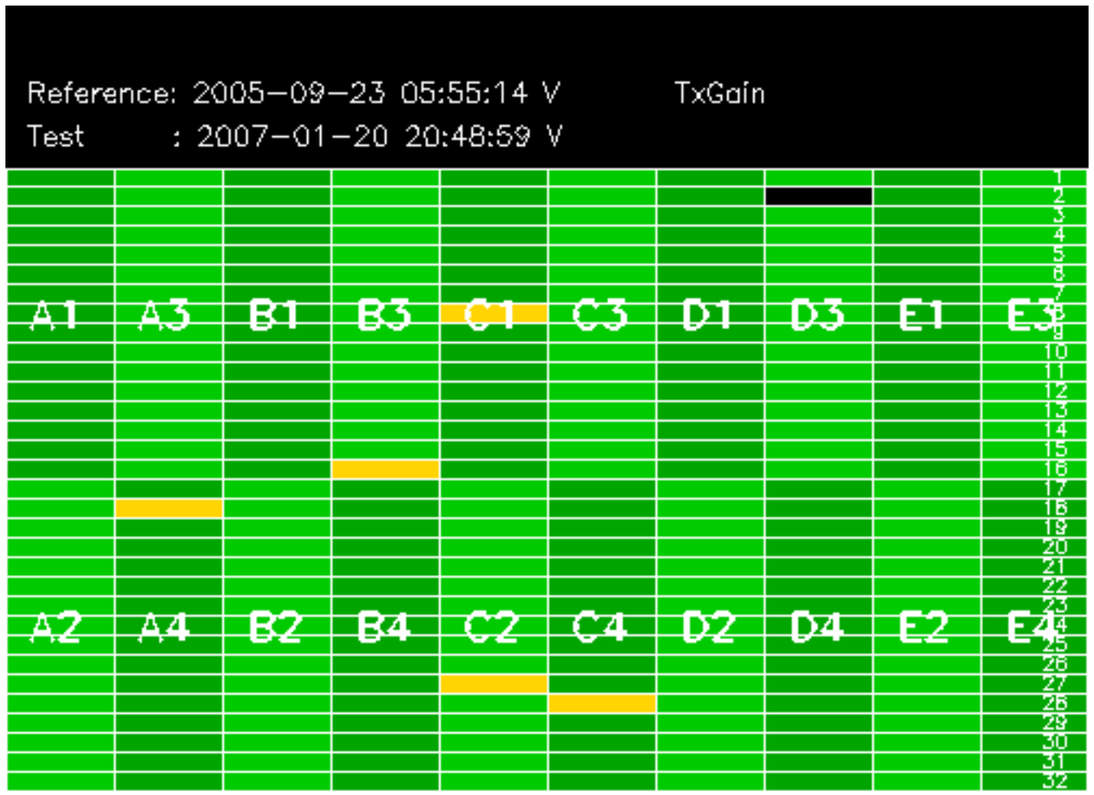
Reference: 2005-09-23 05:55:14 V
Test : 2007-01-20 20:48:59 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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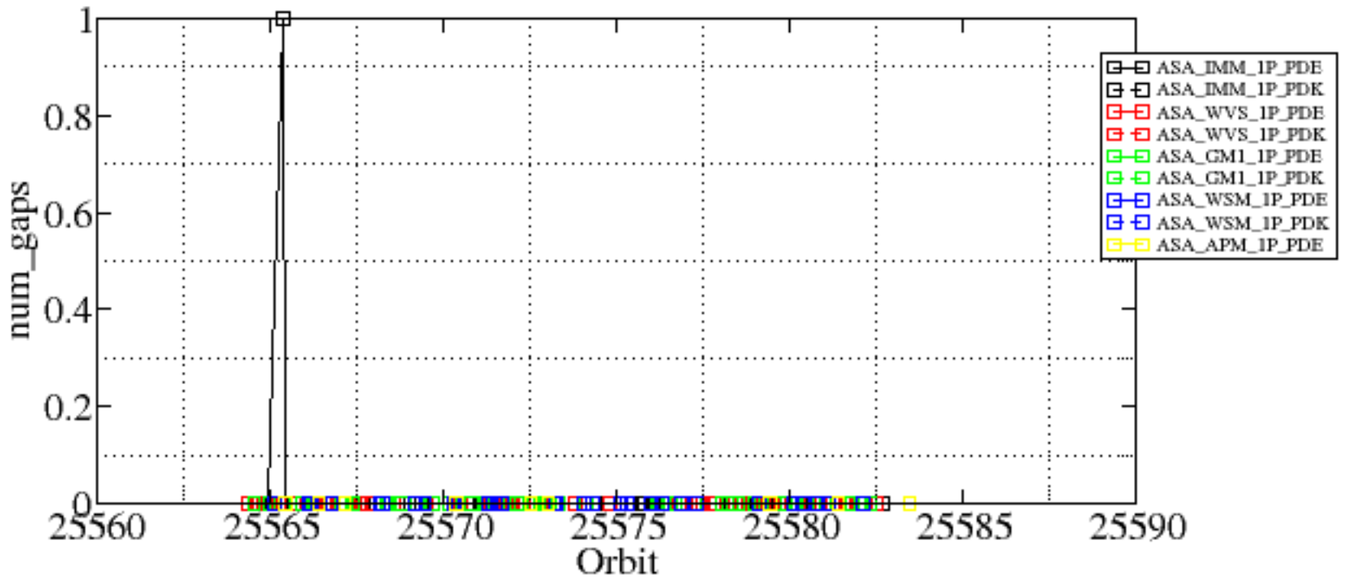
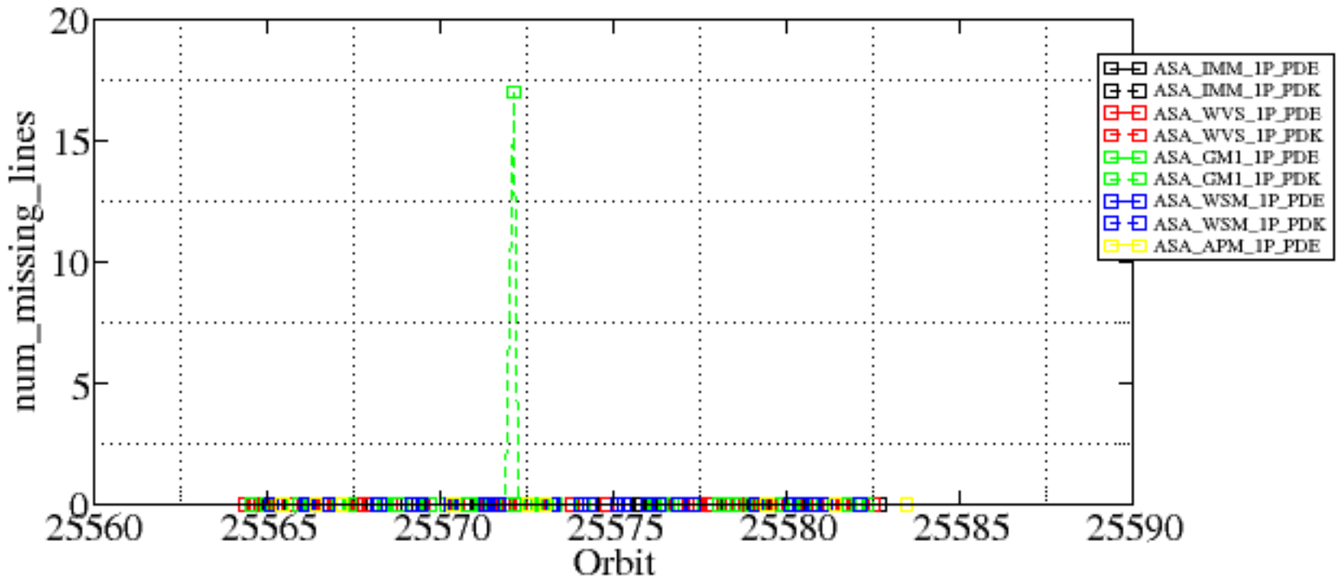
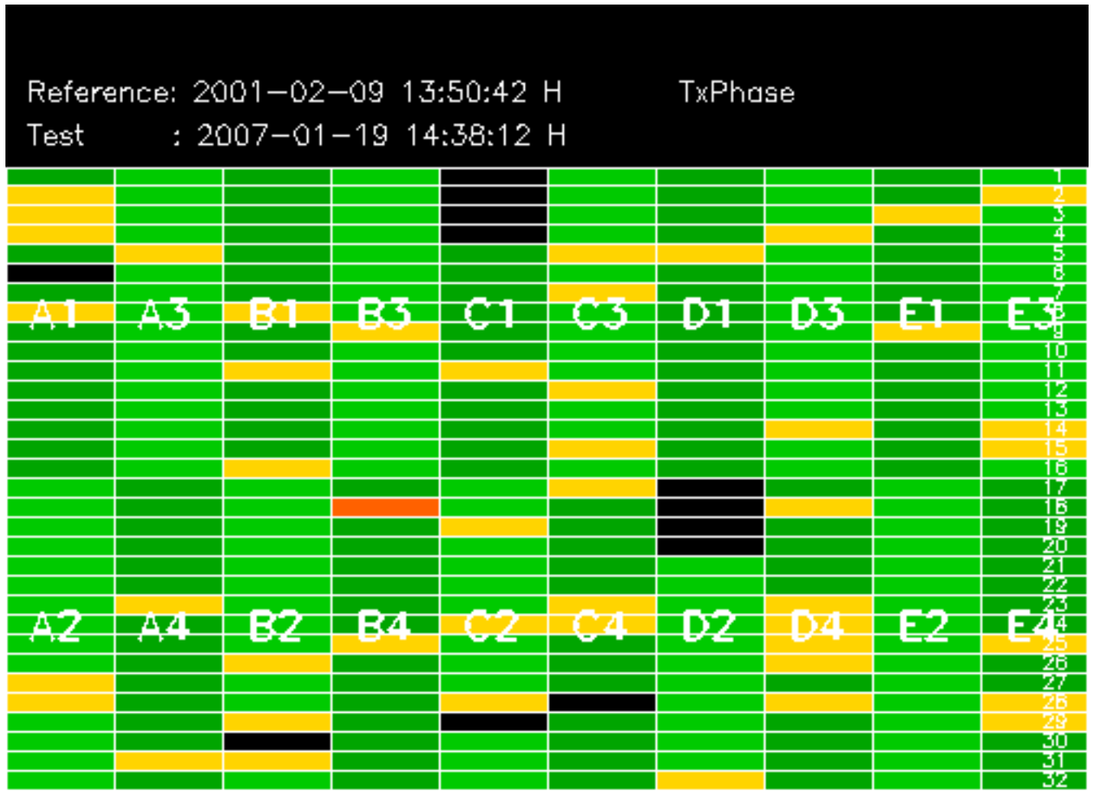
Summary of analysis for the last 3 days 2007012[901]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20070120_015157_000000532054_00461_25565_3990.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20070120_131030_000008632054_00468_25572_5436.N1 </td> <td>0 </td> <td>17 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
25560
25565
25570
25575
25580
25585
25590
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
20
15
10
5
0
25560
25565
25570
25575
25580
25585
25590
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


Reference: 2001-02-09 13:50:42 H
TxPhase
Test : 2007-01-19 14:38:12 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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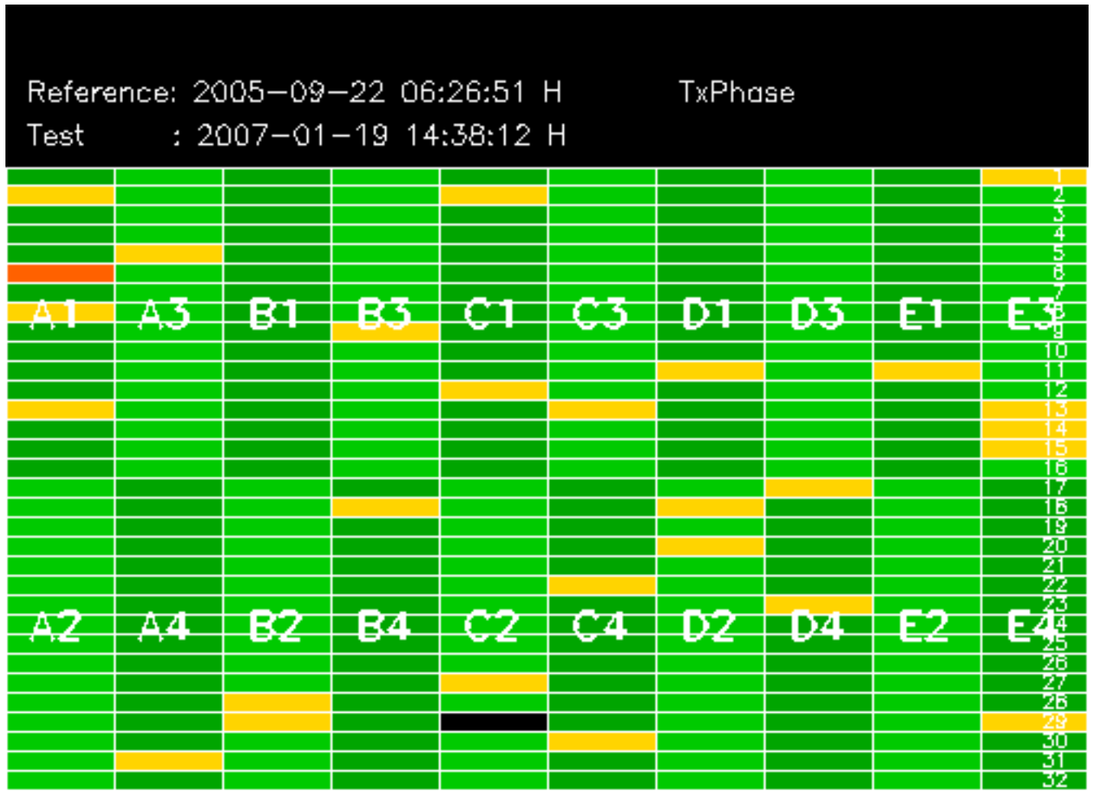
Reference: 2005-09-22 06:26:51 H
Test : 2007-01-19 14:38:12 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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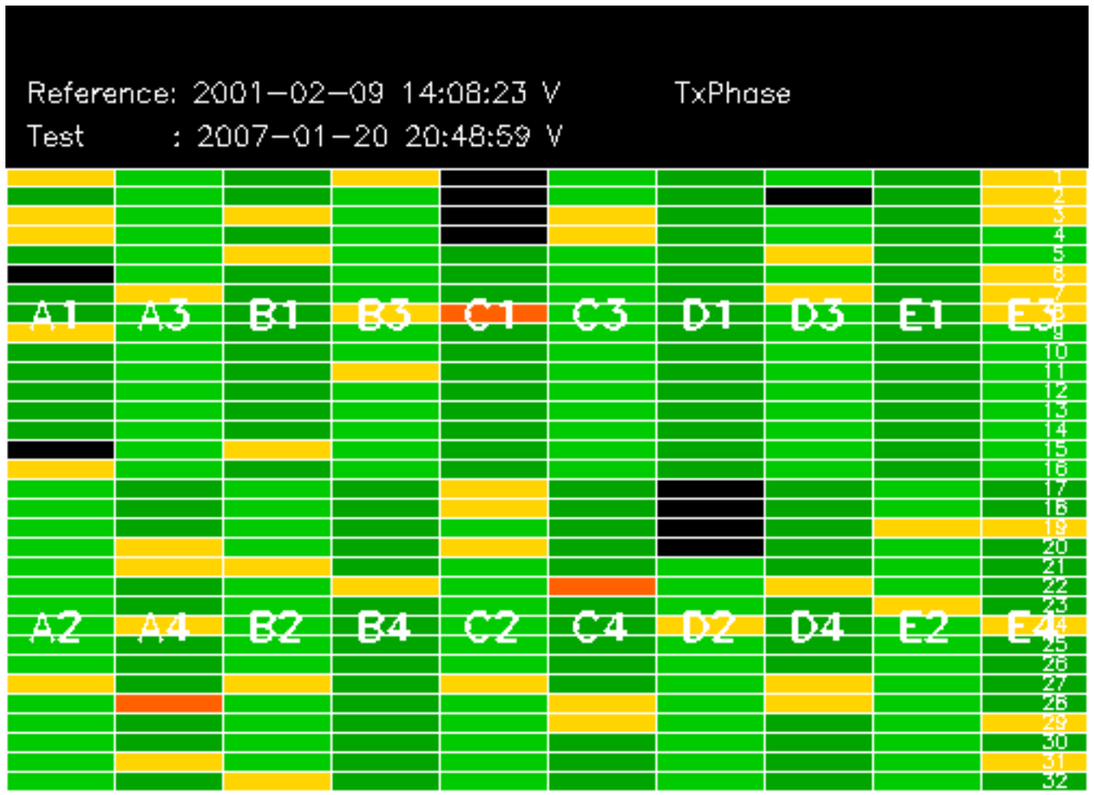
Reference: 2001-02-09 14:08:23 V
Test : 2007-01-20 20:48:59 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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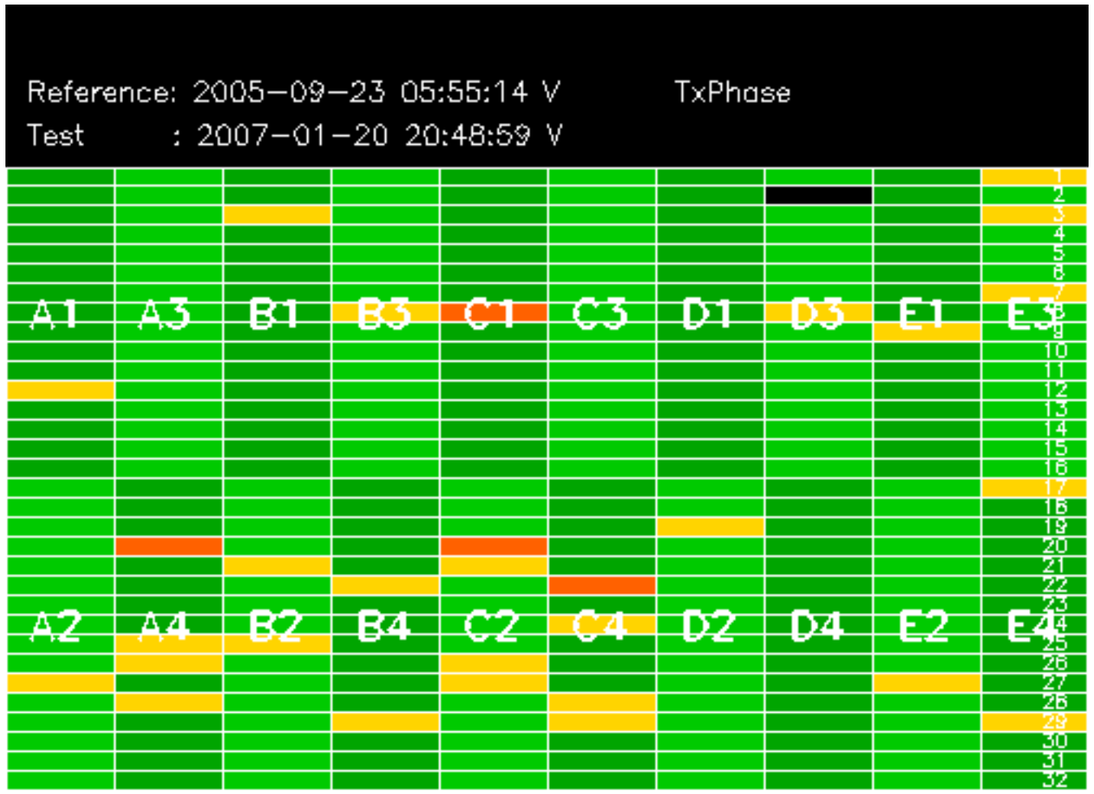
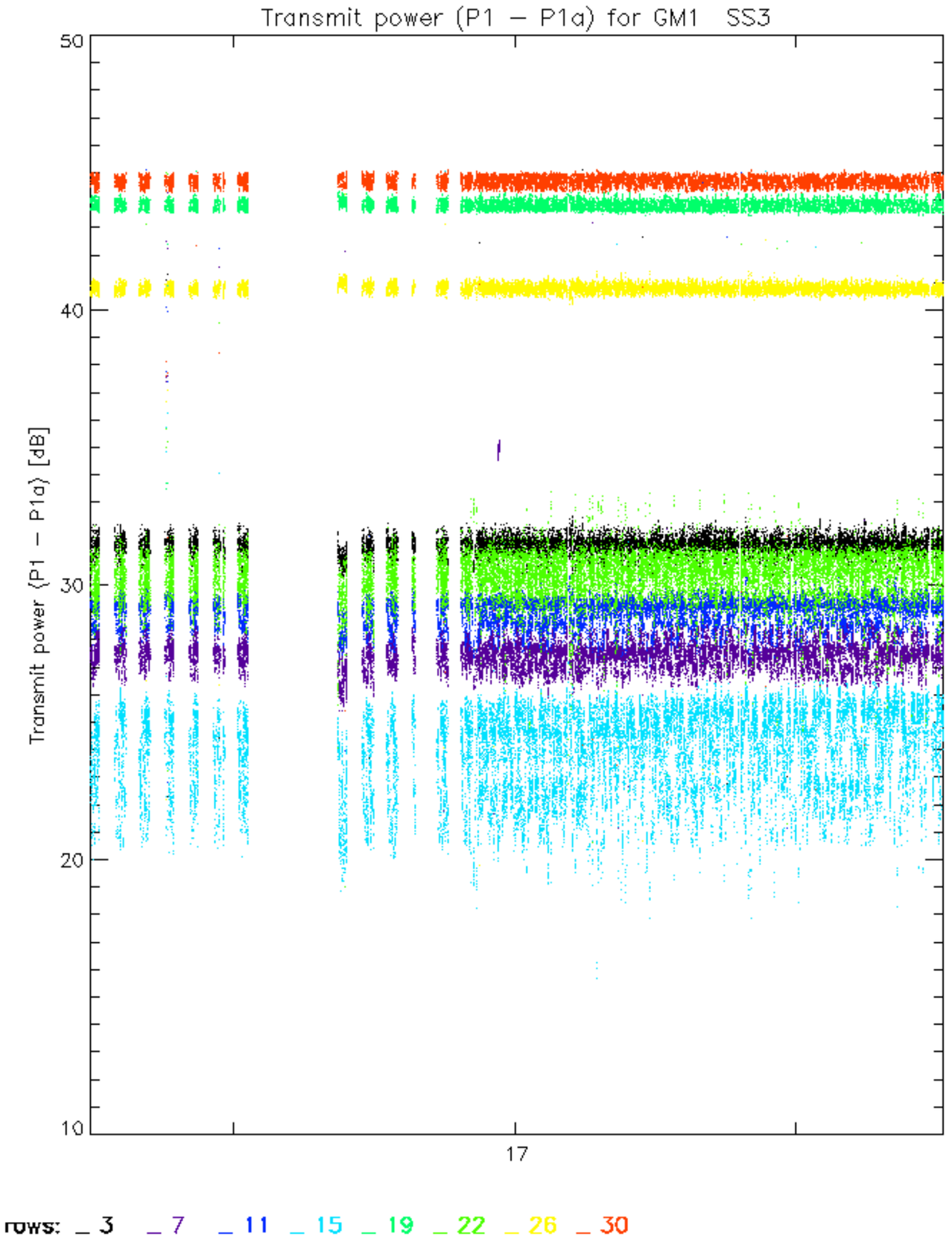
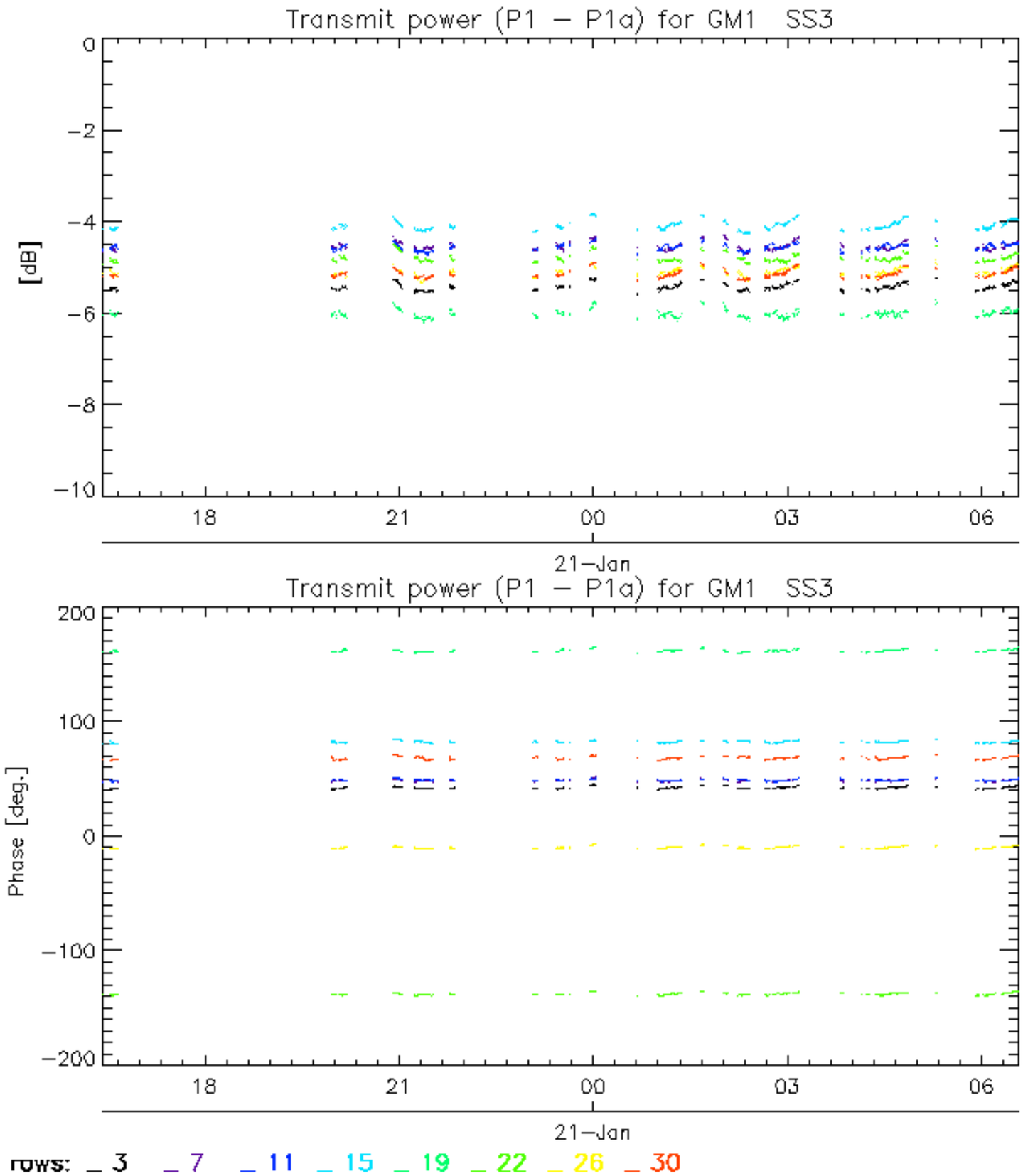
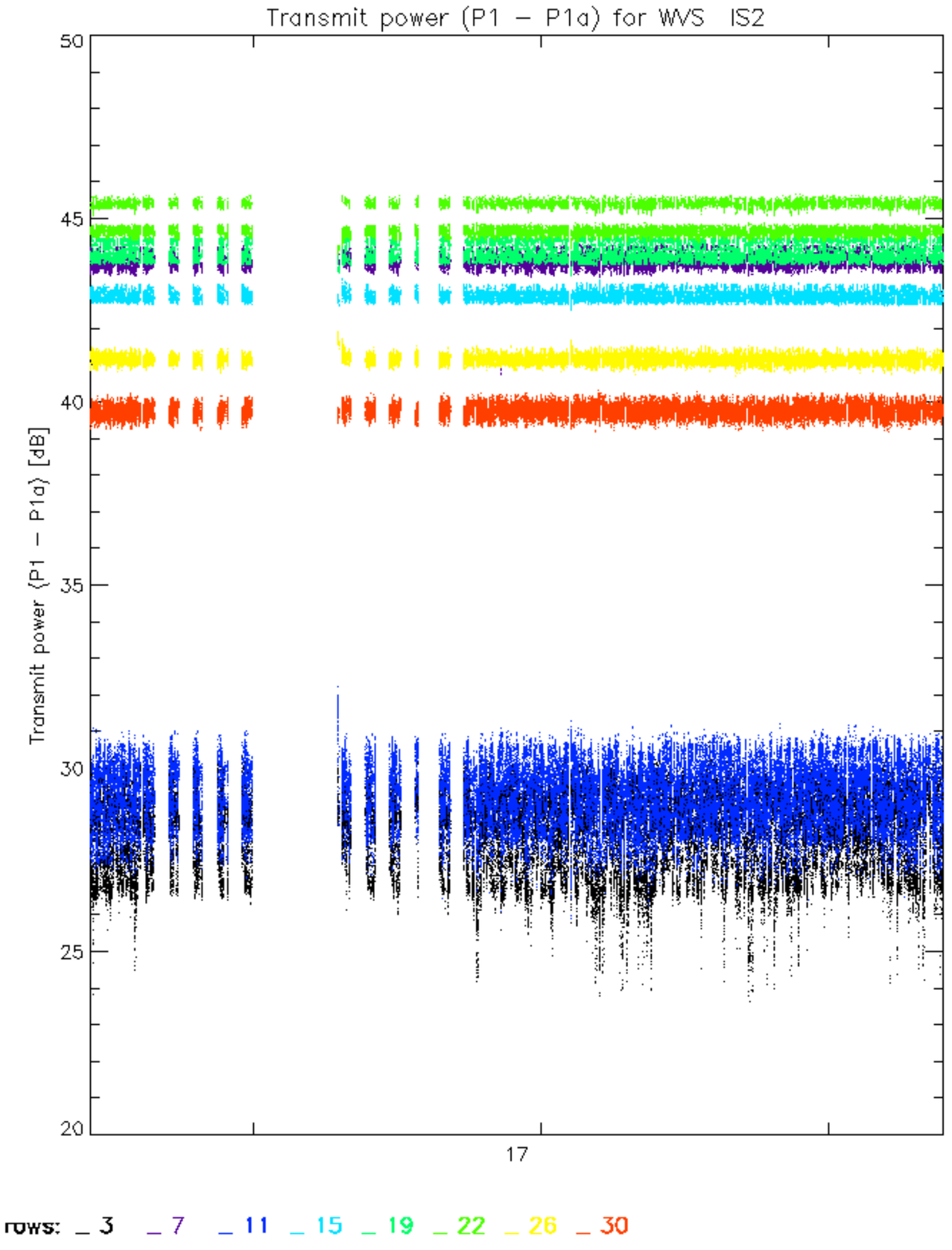
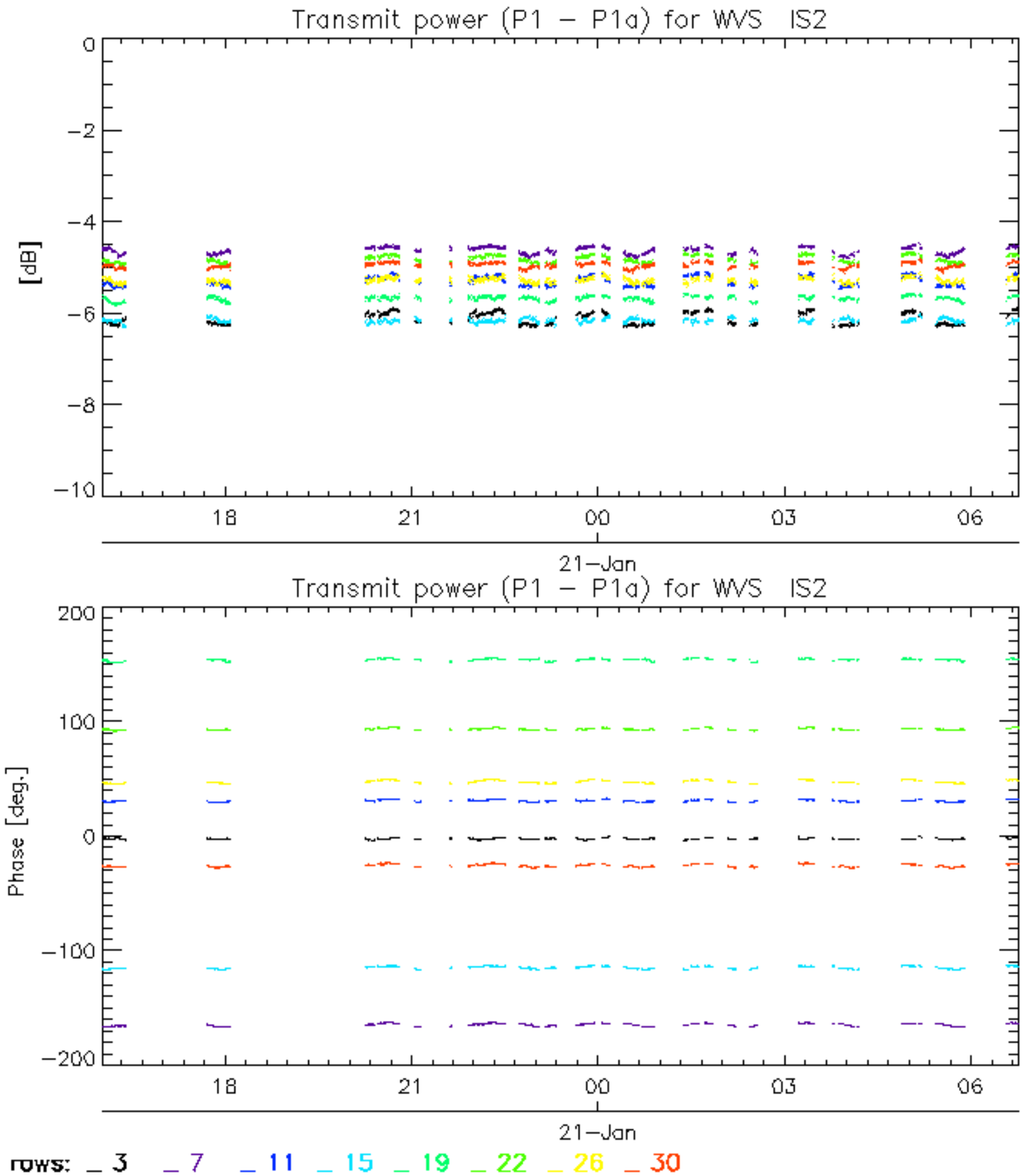
27
28
29
30
31
32


Reference: 2005-09-23 05:55:14 V
Test : 2007-01-20 20:48:59 V
TxPhase
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
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
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]
18
21
00
03
06
21–Jan
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
21–Jan
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
50
45
40
35
30
25
20
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–Jan
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
21–Jan
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.