PRELIMINARY REPORT OF 061231

last update on Sun Dec 31 16:19:19 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 2006-12-30 00:00:00 to 2006-12-31 16:19:19

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

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	24	31	23	7	55
ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000	24	31	23	7	55
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	24	31	23	7	55
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	24	31	23	7	55

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:

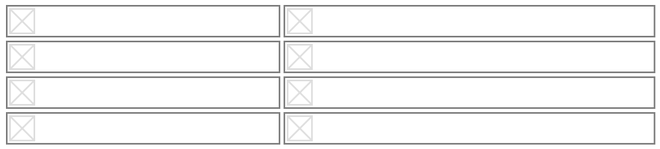
Polarisation	Start Time
V	20061228 074716
H	20061229 071539

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



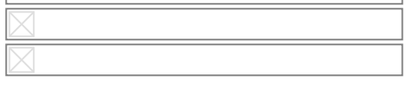
4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

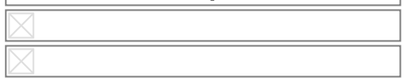
4.1.1 - Evolution for WVS

Evolution of cal pulses for WVS



4.1.2 - Evolution for GM1

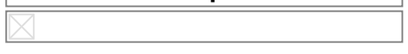
Evolution of cal pulses for GM1



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	-3.959768	0.008086	-0.021657
7	P1	-3.135957	0.025092	0.043171
11	P1	-4.116781	0.026619	0.011936
15	P1	-6.324702	0.016879	-0.019911
19	P1	-3.658223	0.005700	-0.063431
22	P1	-4.659537	0.014197	-0.030595
26	P1	-3.959615	0.009284	-0.021784
30	P1	-5.897610	0.009492	-0.049017
3	P1	-16.541176	0.260578	-0.113775
7	P1	-17.283043	0.194217	0.099320
11	P1	-17.185873	0.488596	0.018419
15	P1	-13.041209	0.138993	0.084662
19	P1	-15.001960	0.094840	-0.088744
22	P1	-15.819014	0.548278	0.101591
26	P1	-15.080488	0.189445	0.039097
30	P1	-17.508022	0.477833	0.115331

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.795321	0.095115	0.008228
7	P2	-21.714245	0.093871	0.062946
11	P2	-15.566695	0.102200	0.008629
15	P2	-7.106699	0.109514	0.016334
19	P2	-9.187308	0.105856	0.014991
22	P2	-18.226786	0.099268	0.026860
26	P2	-16.590403	0.112065	-0.037034
30	P2	-19.450817	0.089725	0.003872

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.237110	0.009128	0.000462
7	P3	-8.237110	0.009128	0.000462
11	P3	-8.237110	0.009128	0.000462

15	P3	-8.237110	0.009128	0.000462
19	P3	-8.237110	0.009128	0.000462
22	P3	-8.237110	0.009128	0.000462
26	P3	-8.237146	0.009129	0.000302
30	P3	-8.237146	0.009129	0.000302

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	-3.918966	0.014863	-0.013468
7	P1	-2.470749	0.015059	0.008555
11	P1	-2.850608	0.017703	0.000241
15	P1	-3.687054	0.031867	-0.036753
19	P1	-3.544624	0.019364	-0.008367
22	P1	-5.023870	0.024445	0.013128
26	P1	-6.030560	0.029343	-0.022457
30	P1	-5.345064	0.039380	-0.003442
3	P1	-11.739355	0.083605	0.011753
7	P1	-10.069163	0.081559	-0.010576
11	P1	-10.348608	0.119656	-0.063939
15	P1	-10.710178	0.117094	-0.070222
19	P1	-15.726388	0.125298	0.005411
22	P1	-21.597996	1.390669	0.049774
26	P1	-16.065981	0.347101	0.064463
30	P1	-17.879793	0.364670	-0.067180

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.464920	0.114681	0.009742
7	P2	-22.221918	0.268749	0.038081
11	P2	-10.863928	0.109850	0.023338
15	P2	-4.981881	0.195294	0.003718
19	P2	-6.962415	0.273682	-0.012648
22	P2	-8.246428	0.111026	-0.003143
26	P2	-24.316402	0.158332	-0.053641
30	P2	-21.949732	0.118580	0.024591

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.086834	0.005242	-0.017841
7	P3	-8.086788	0.005218	-0.017093
11	P3	-8.086831	0.005233	-0.017228
15	P3	-8.086698	0.005218	-0.017370
19	P3	-8.086716	0.005238	-0.017634
22	P3	-8.086708	0.005230	-0.017377
26	P3	-8.086857	0.005230	-0.017938
30	P3	-8.086773	0.005210	-0.018209

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	0.000562112
	stdev	1.65485e-07
MEAN Q	mean	0.000503993
	stdev	2.13509e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.139984
	stdev	0.00122309
STDEV Q	mean	0.140380
	stdev	0.00124372

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006123[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_GM1_1PNPDE20061230_061449_000002592054_00163_25267_3906.N1	5	0
ASA_WSM_1PNPDE20061230_012058_000004402054_00160_25264_3489.N1	0	41
ASA_WSM_1PNPDE20061230_144646_000004462054_00168_25272_4293.N1	0	36
ASA_WSM_1PNPDE20061230_172249_000001772054_00170_25274_4329.N1	0	4
ASA_WSM_1PNPDE20061230_190232_000000972054_00171_25275_4361.N1	0	48
ASA_WSM_1PNPDE20061231_005022_000002612054_00174_25278_4768.N1	0	36

7 - Doppler Analysis

Preliminary report.The data is not yet controled

7.1 - Unbiased Doppler Error for WVS

Evolution of unbiased Doppler error (Real - Expected)

Acsending

Descending

7.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler

Acsending

Descending

7.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX


7.4 - Unbiased Doppler Error for GM1

Evolution of unbiased Doppler error (Real - Expected)

Acsending


Descending

7.5 - Absolute Doppler for GM1

Evolution of Absolute Doppler
☒
Acsending
☒
Descending

7.6 - Doppler evolution versus ANX for GM1

Evolution Doppler error versus ANX
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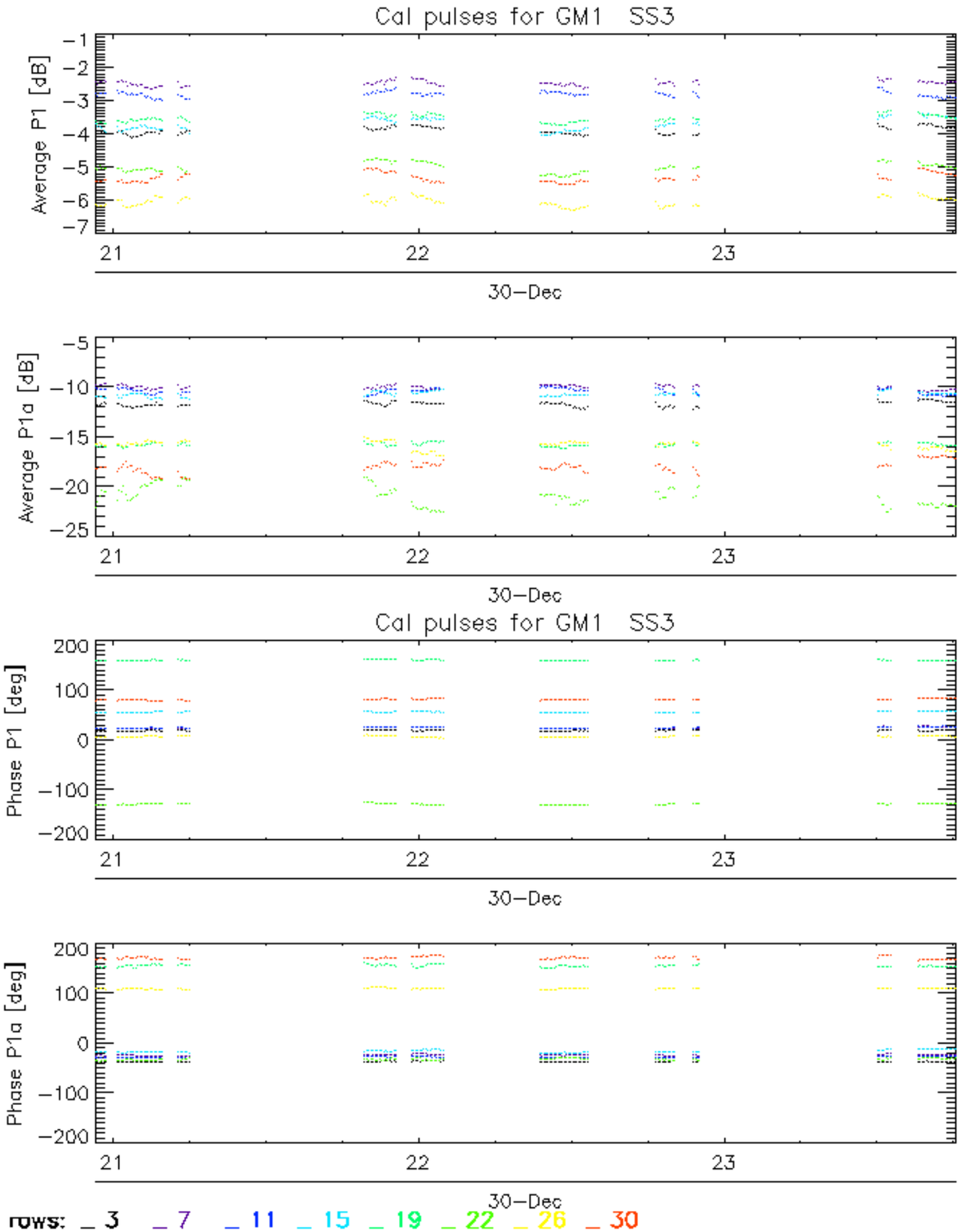
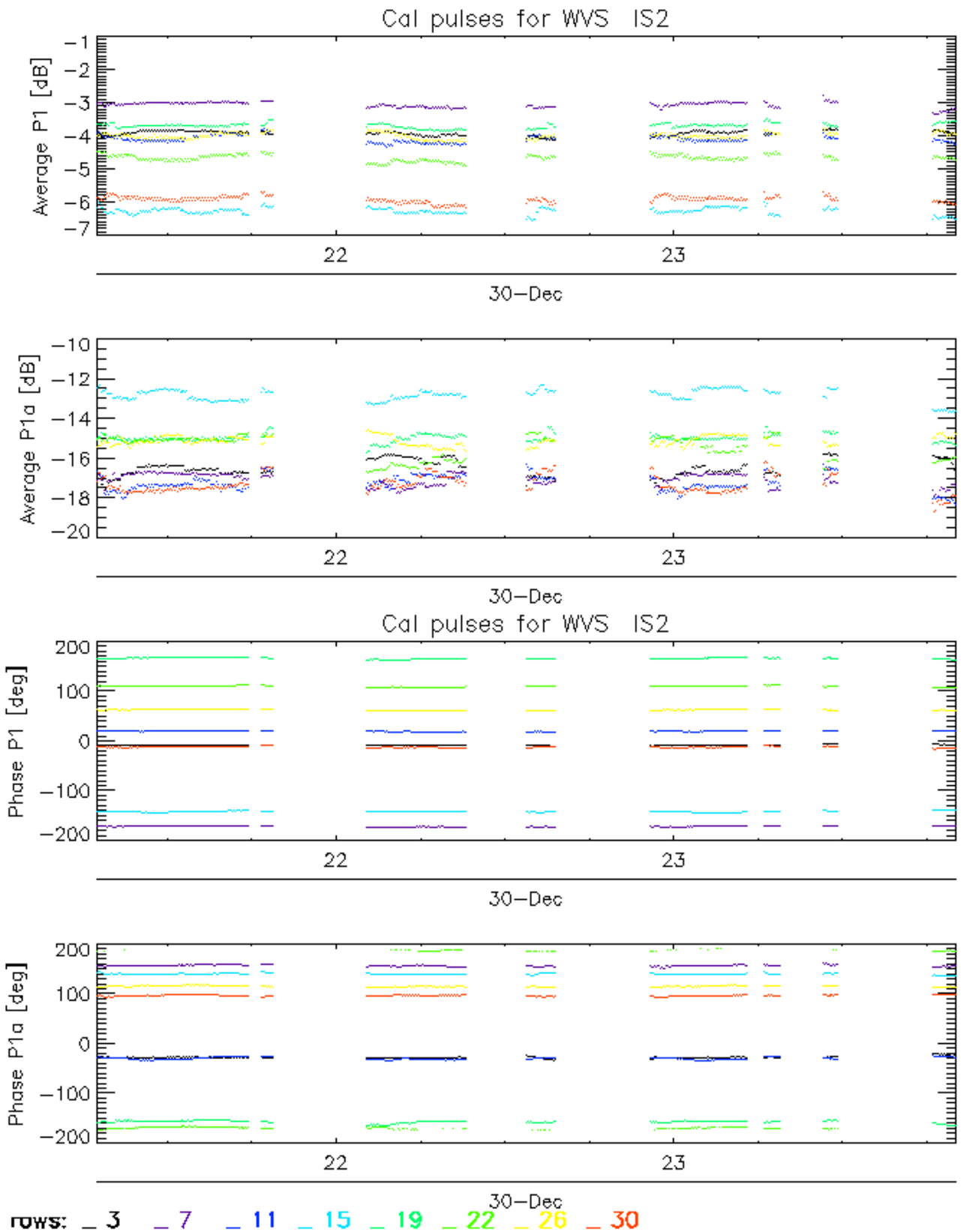
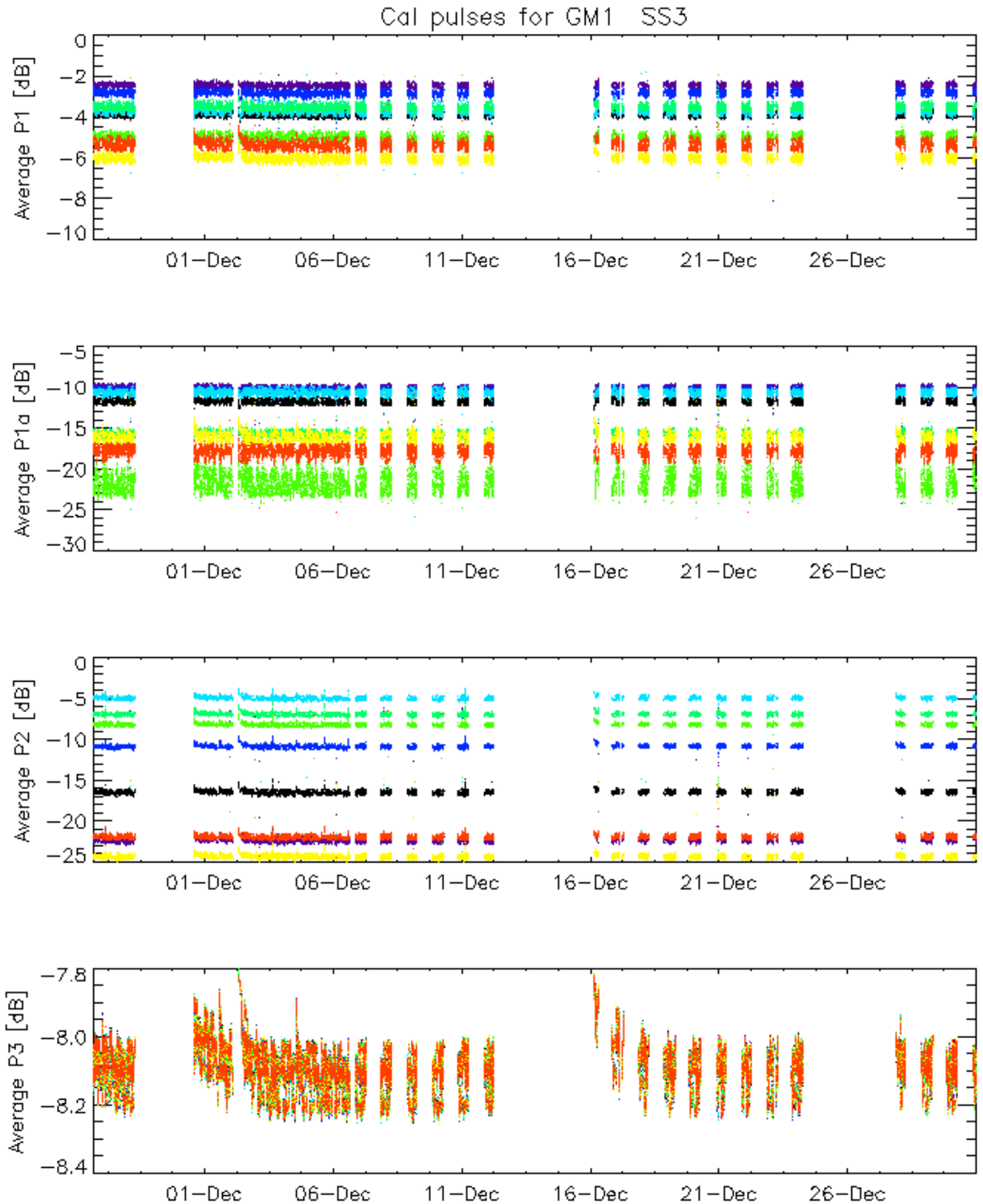
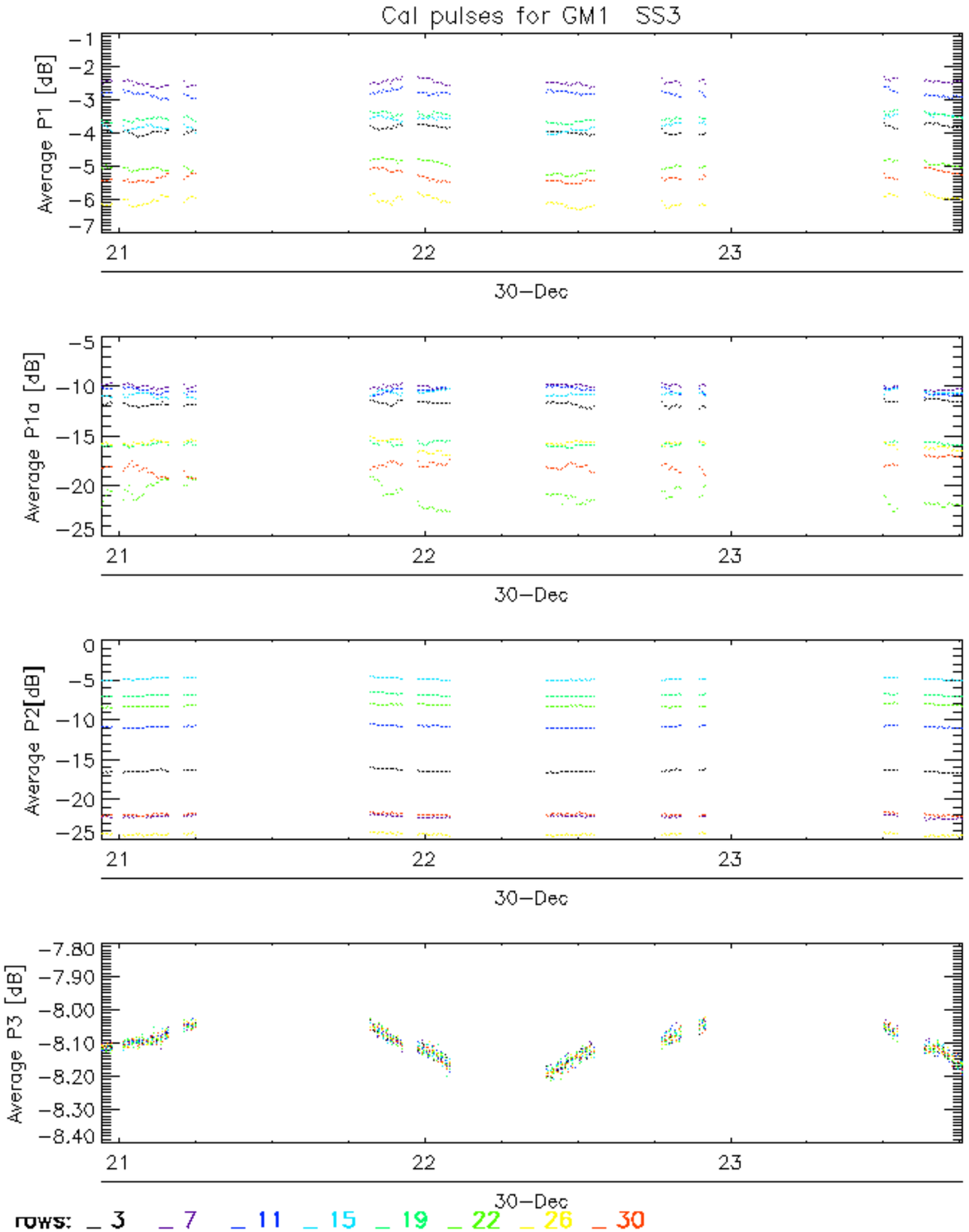
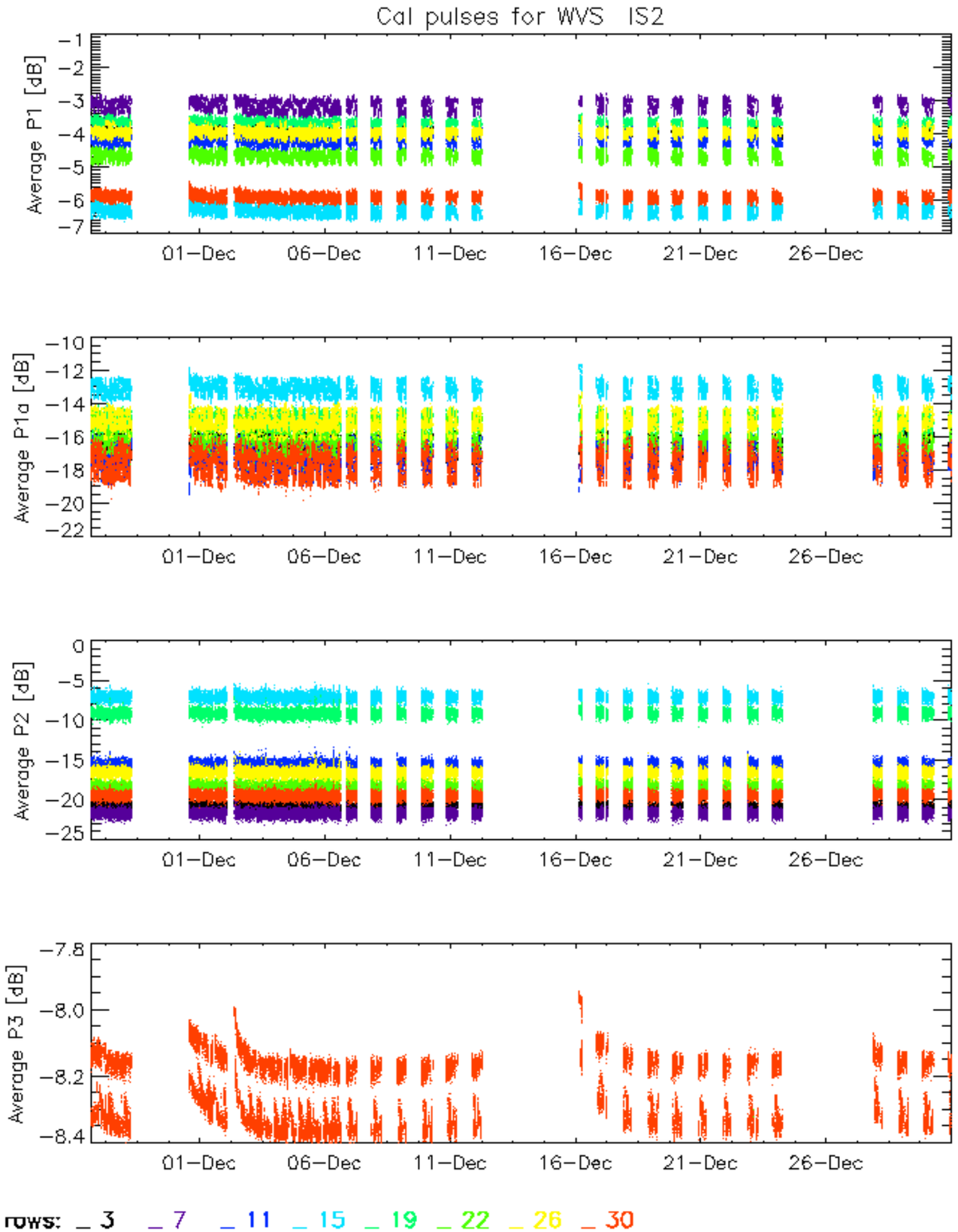
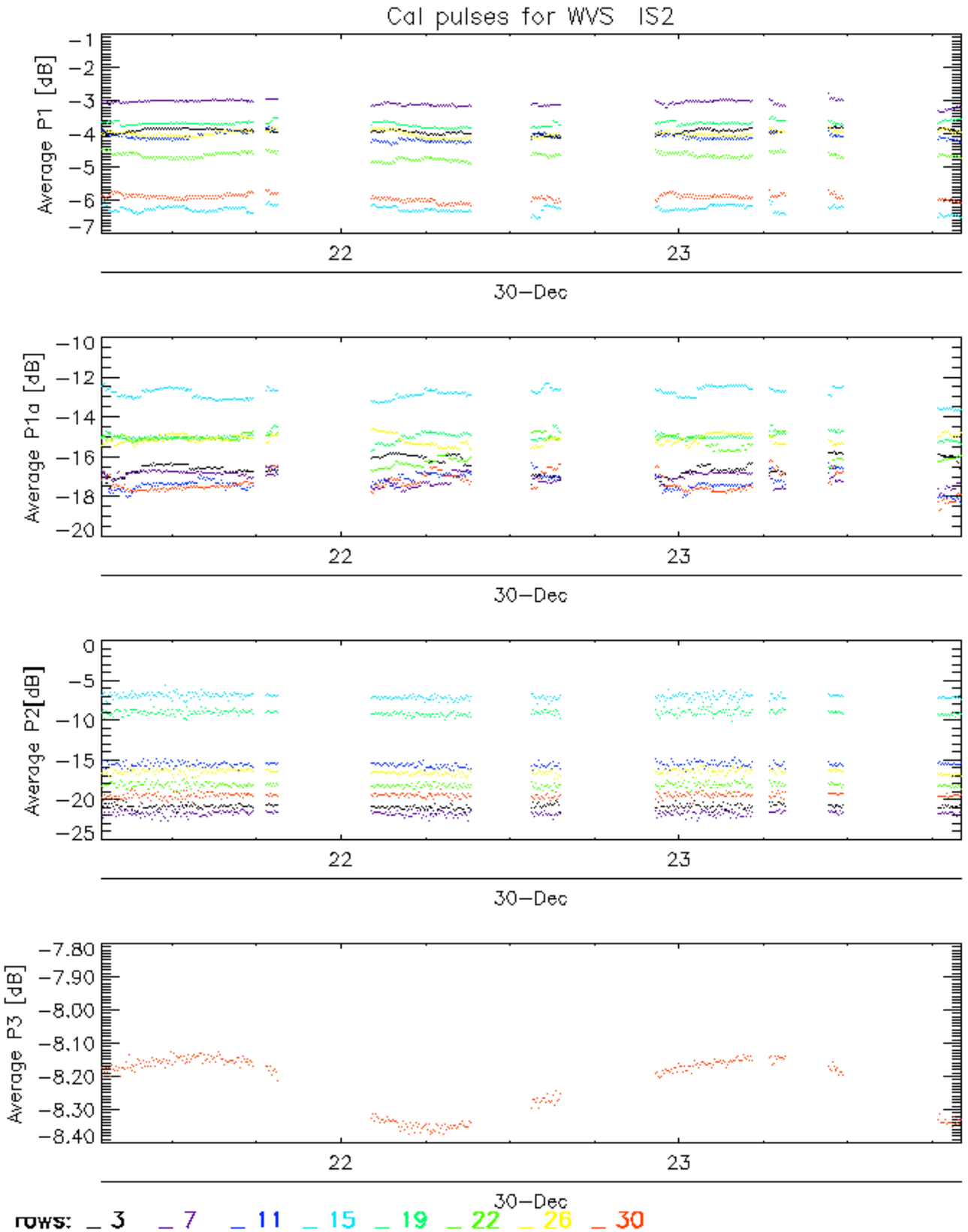

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
21
22
23
30−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
21
22
23
30−Dec
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
21
22
23
30−Dec
Phase P1a [deg]
200
100
0
−100
−200
21
22
23
30−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

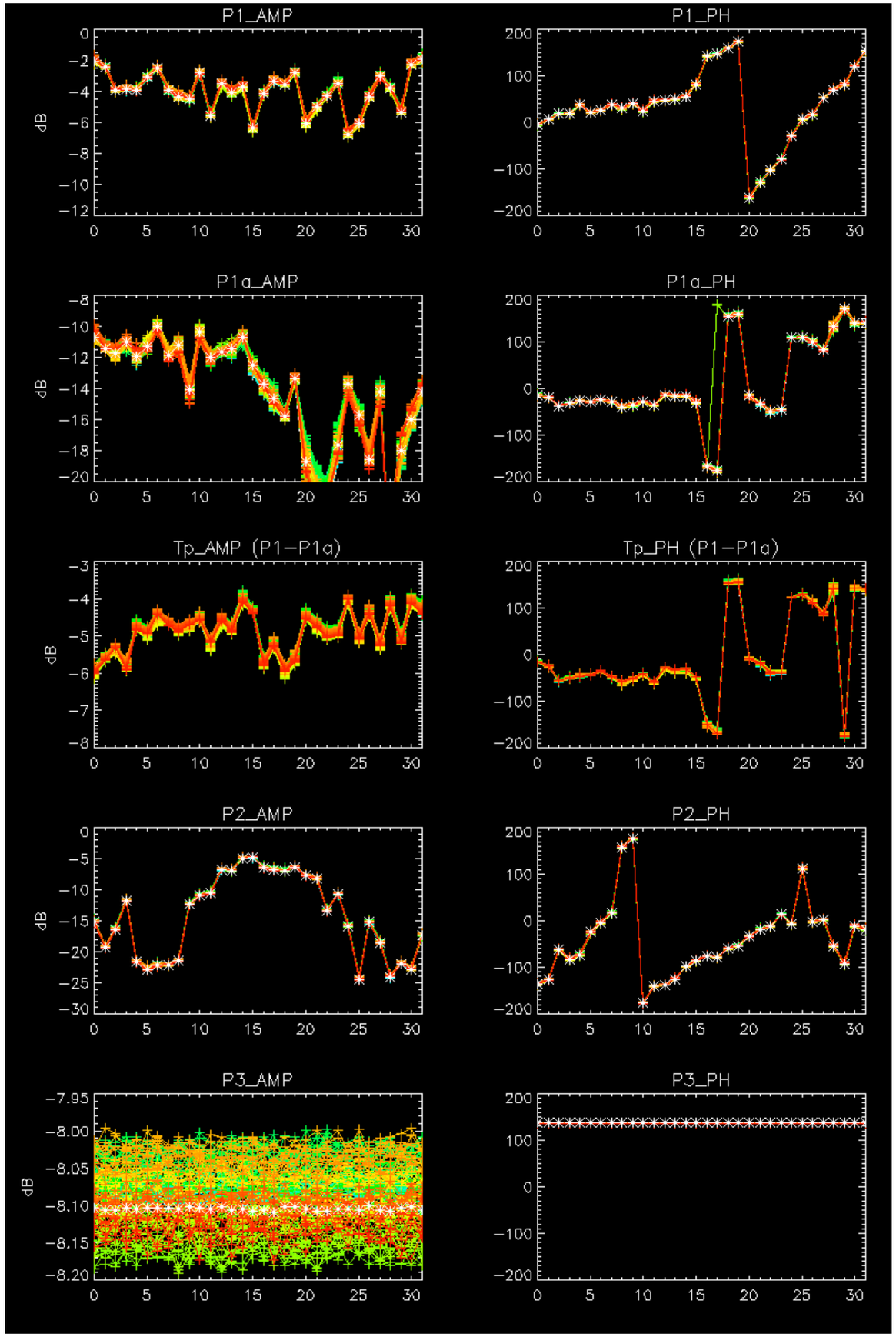

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
−10
01−Dec
06−Dec
11−Dec
16−Dec
21−Dec
26−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

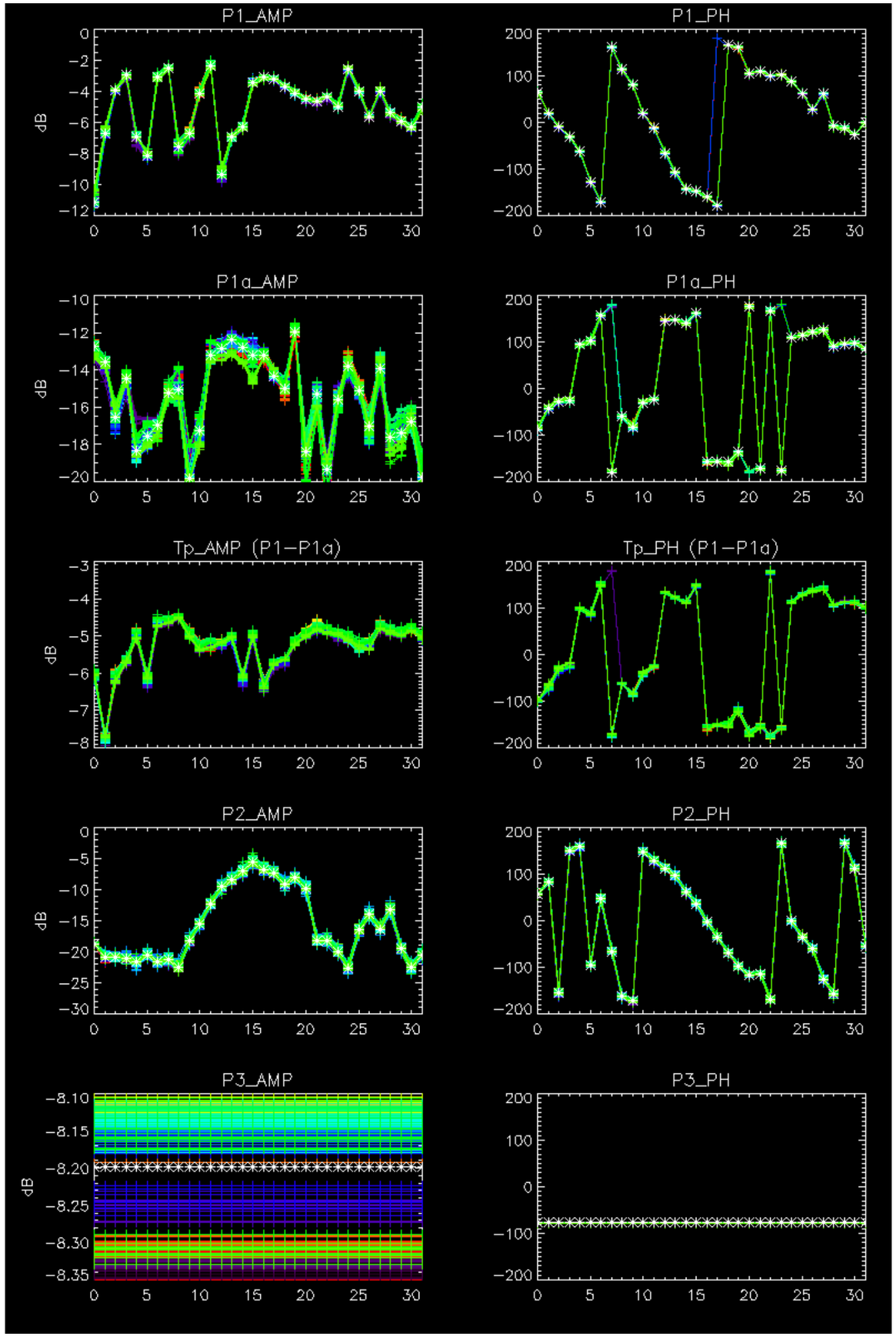

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
21
22
23
30−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
21
22
23
30−Dec
Average P2[dB]
0
−5
−10
−15
−20
−25
21
22
23
30−Dec
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
21
22
23
30−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

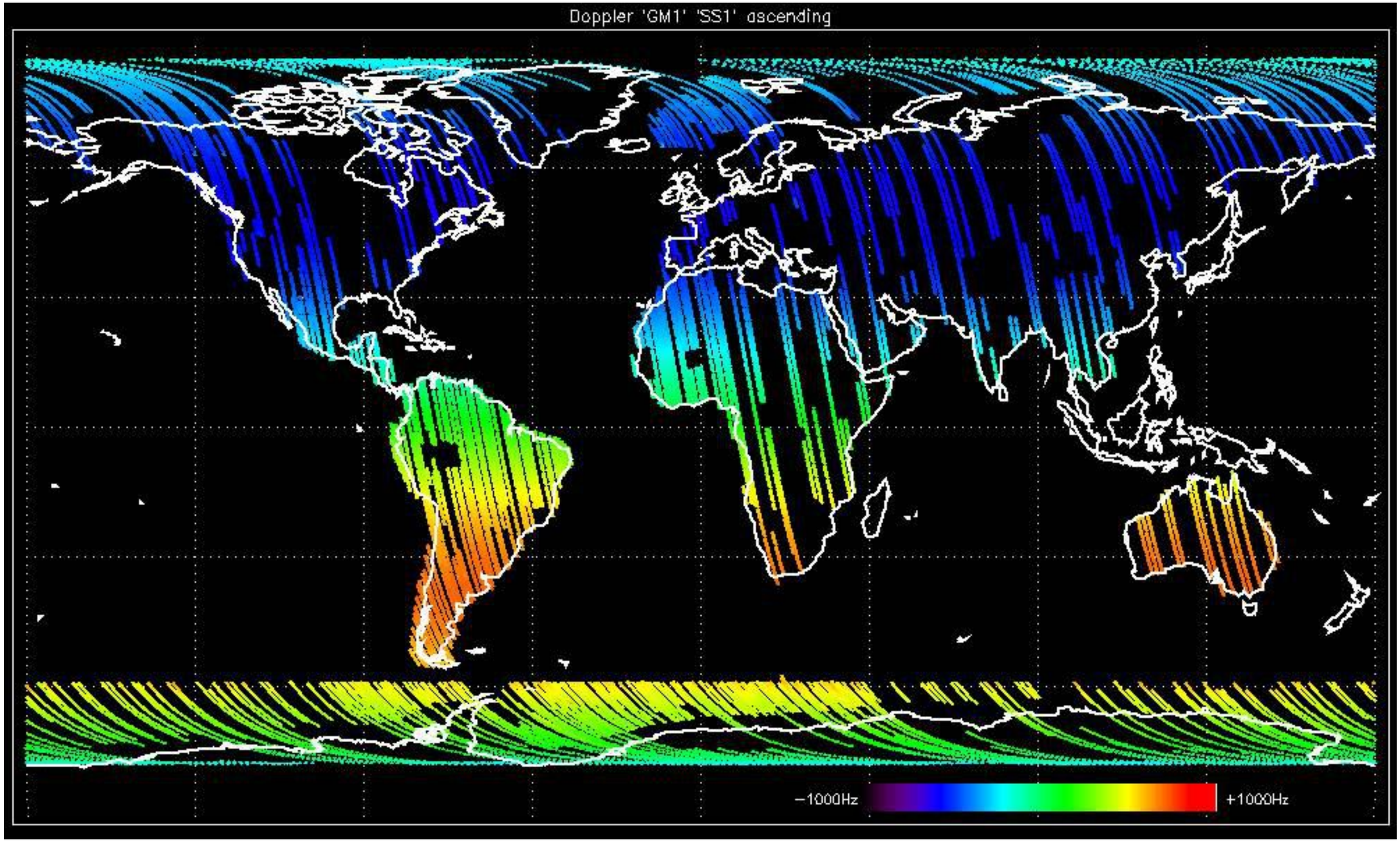
No anomalies observed.

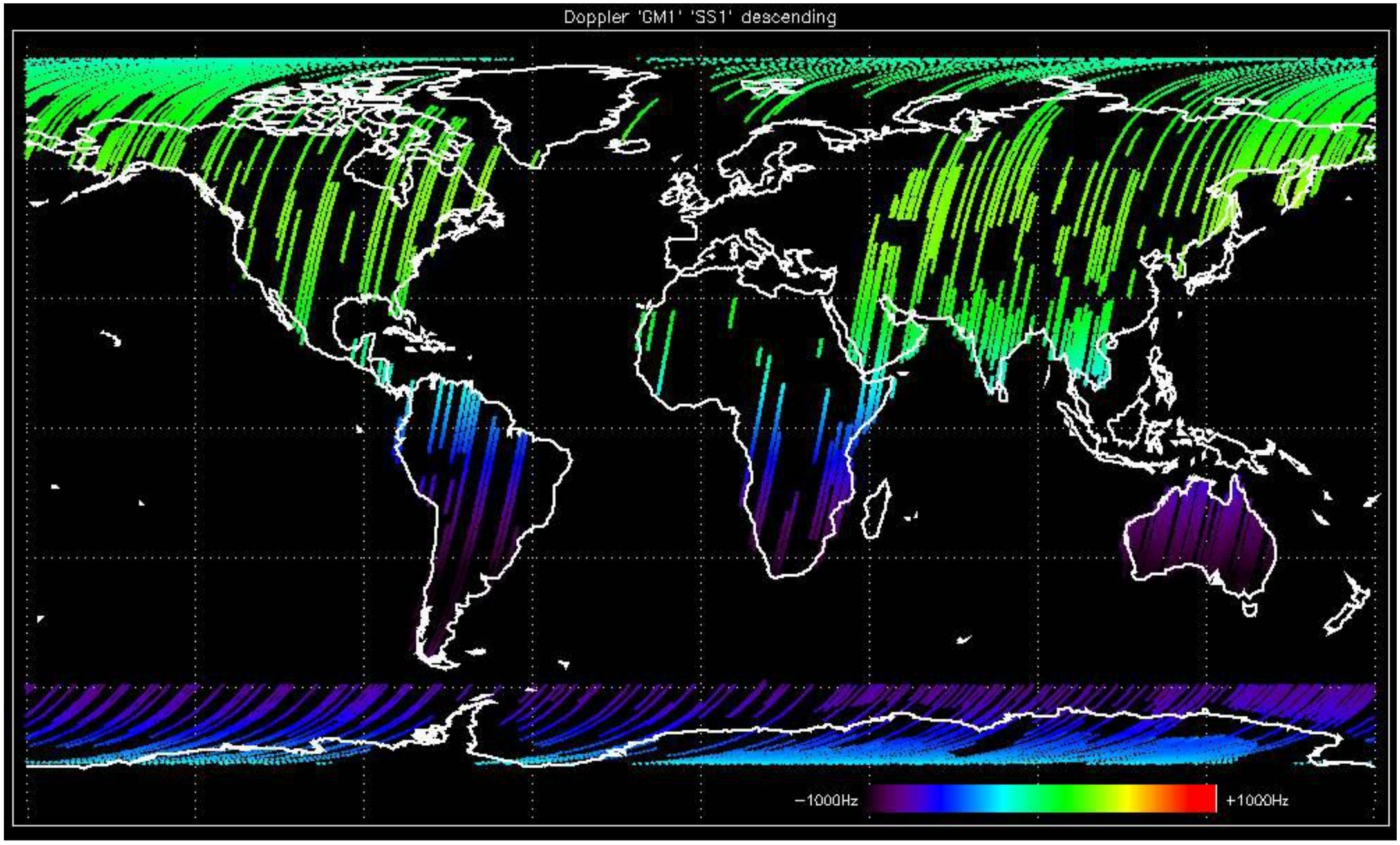

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

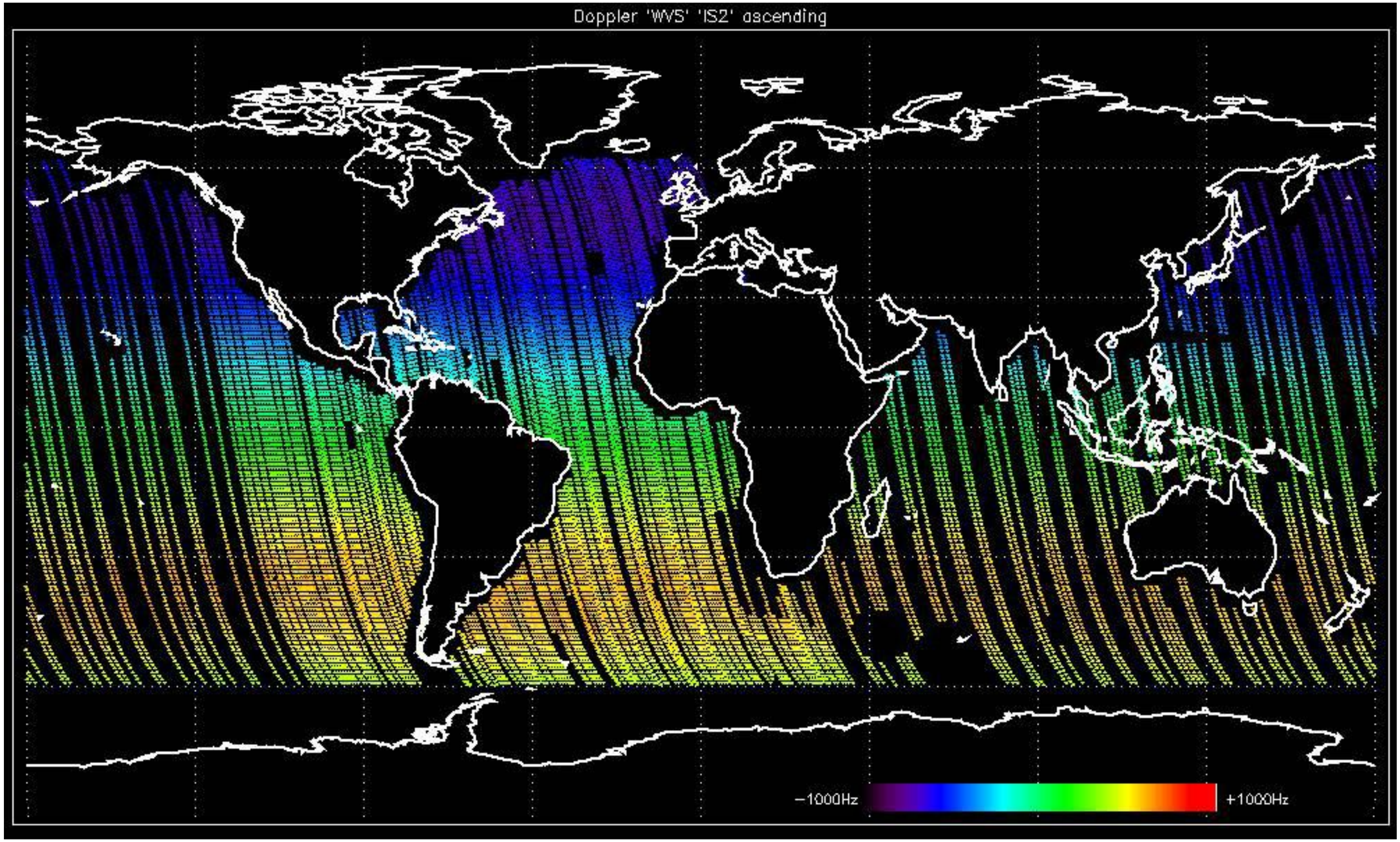

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

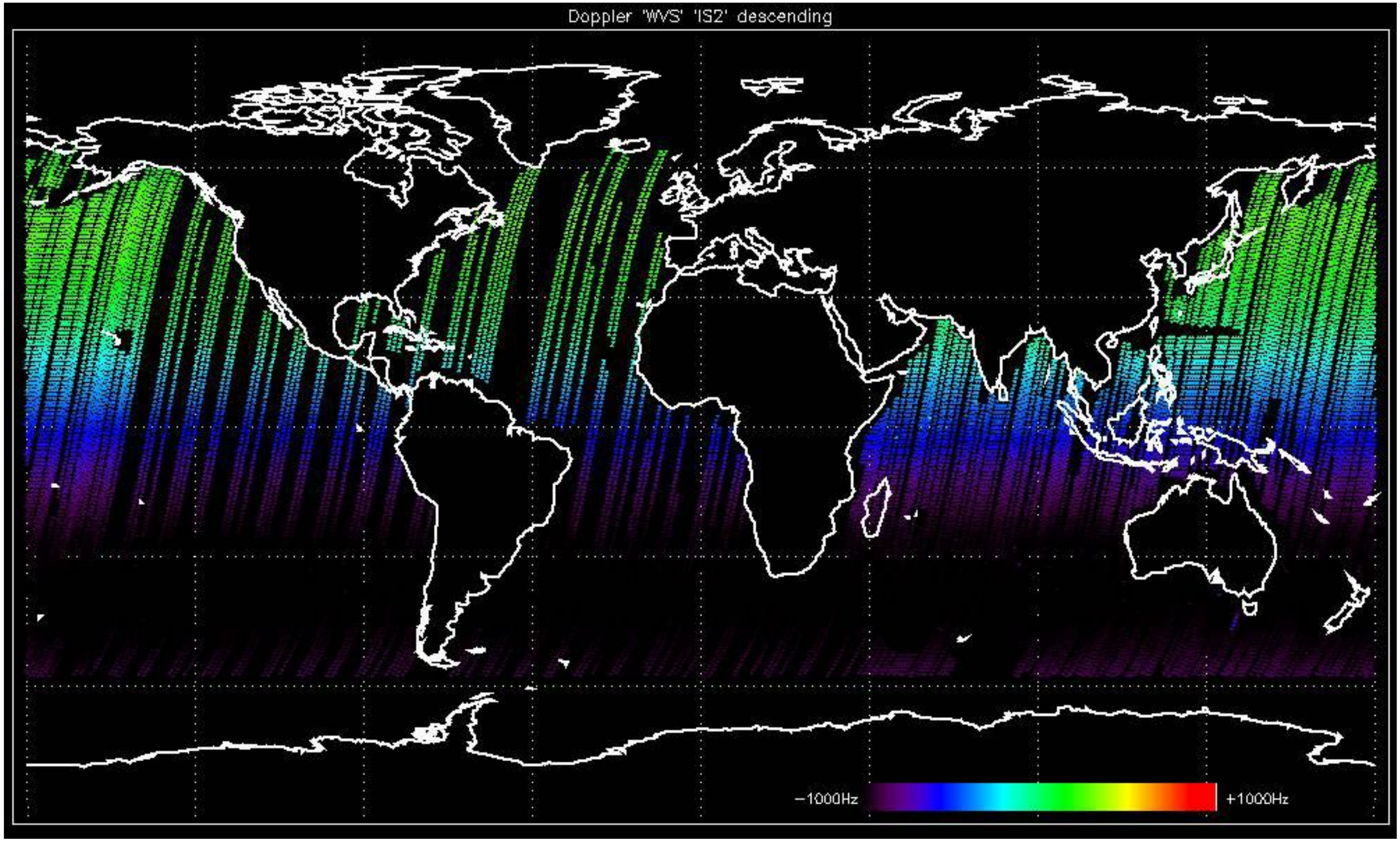
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

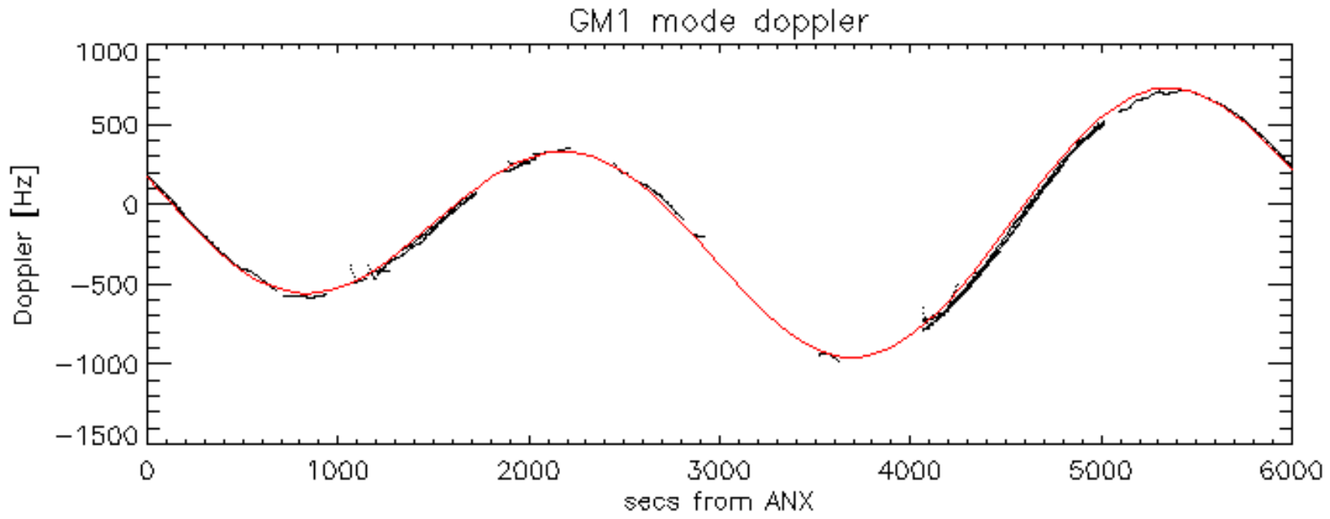
Preliminary report.The data is not yet controled

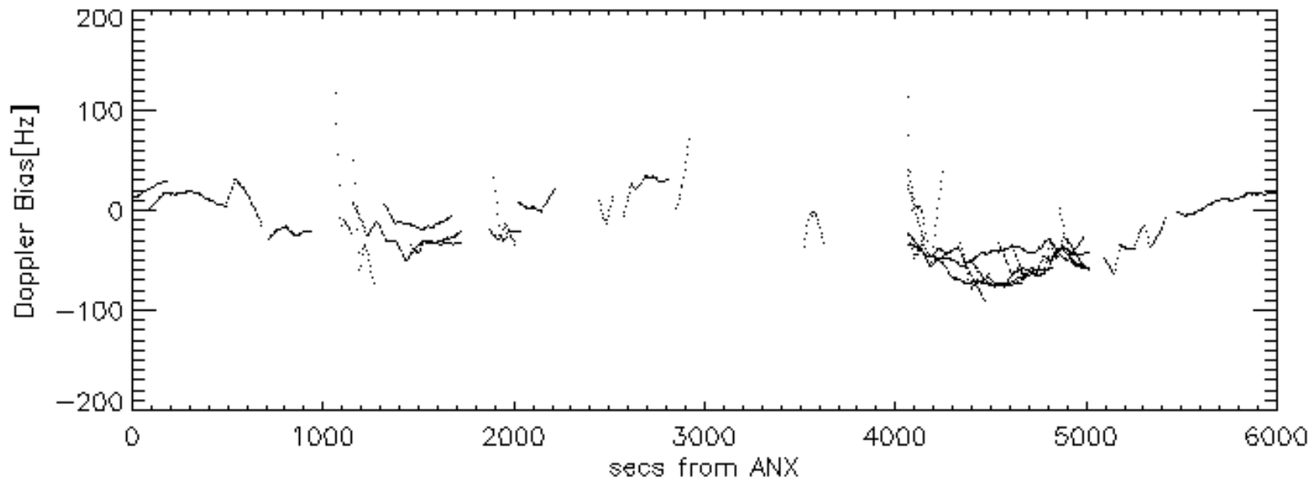

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

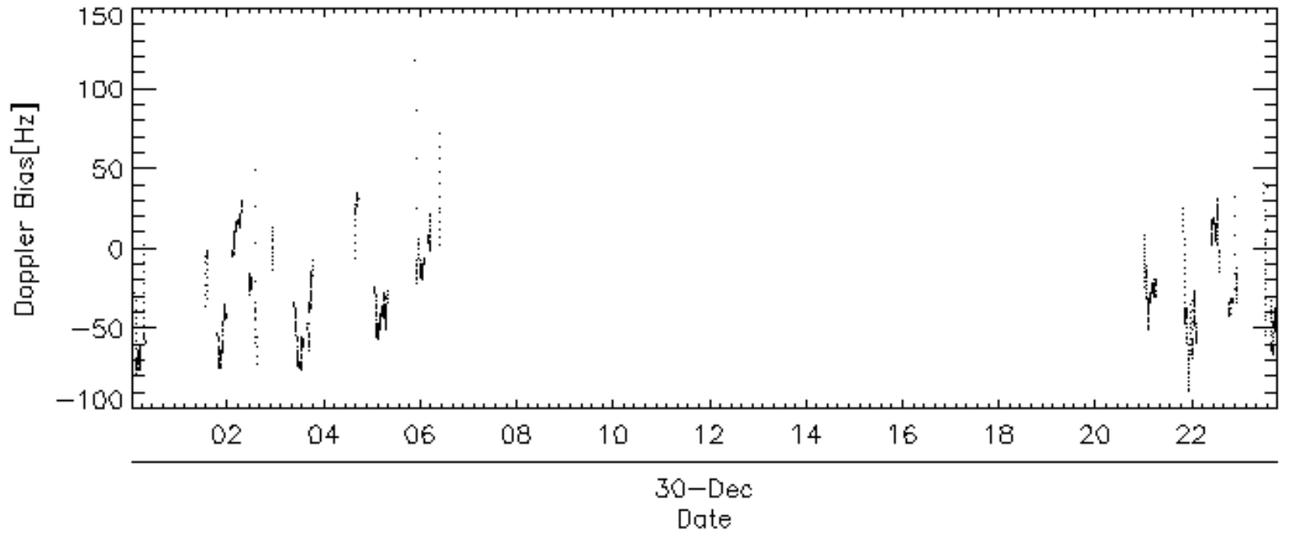

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

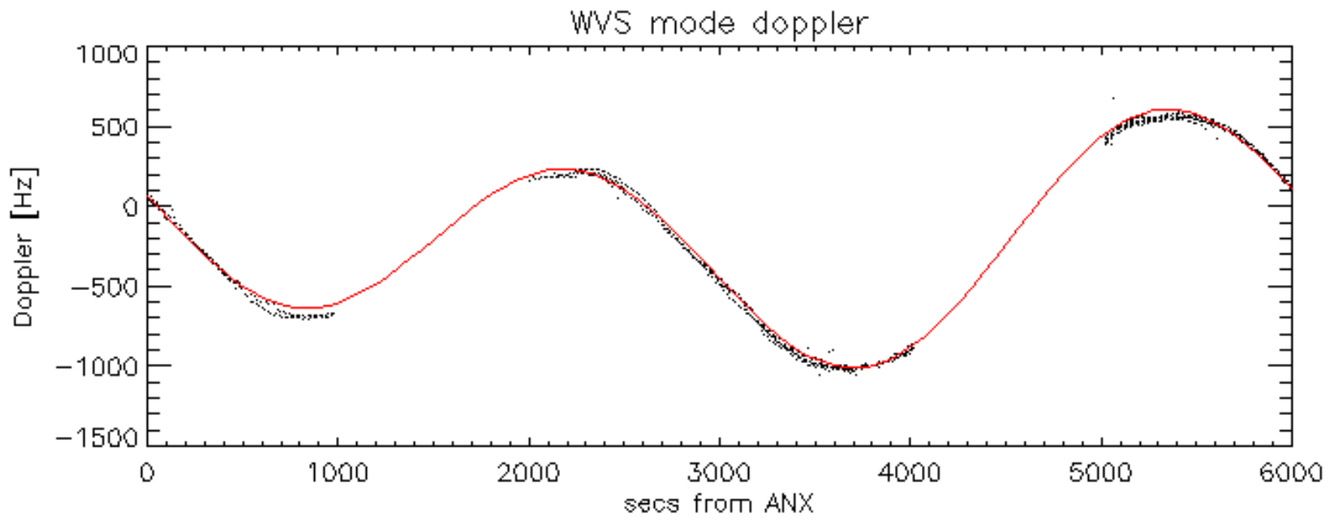

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

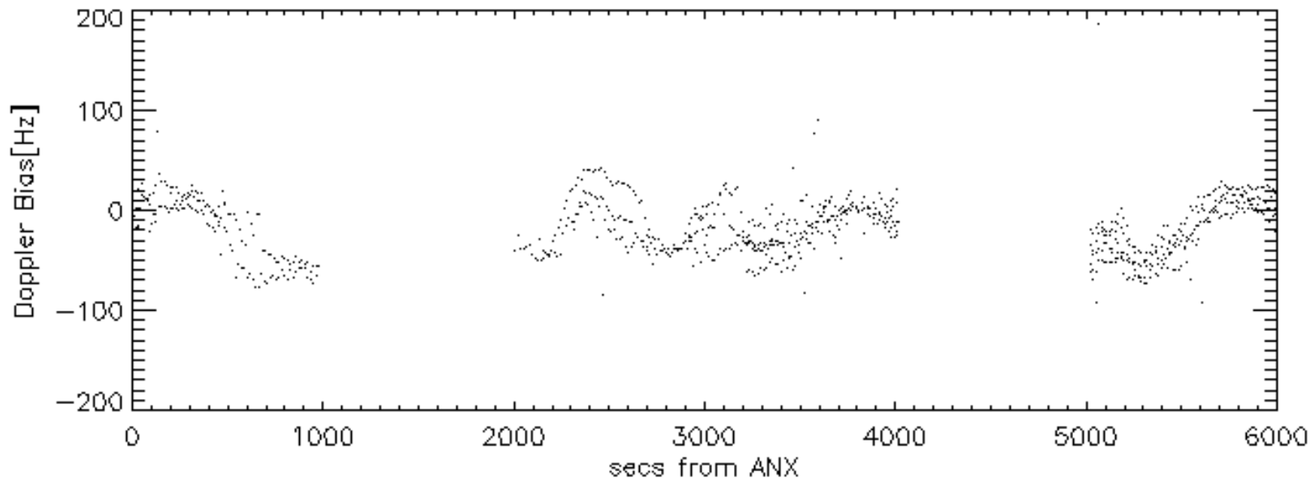

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

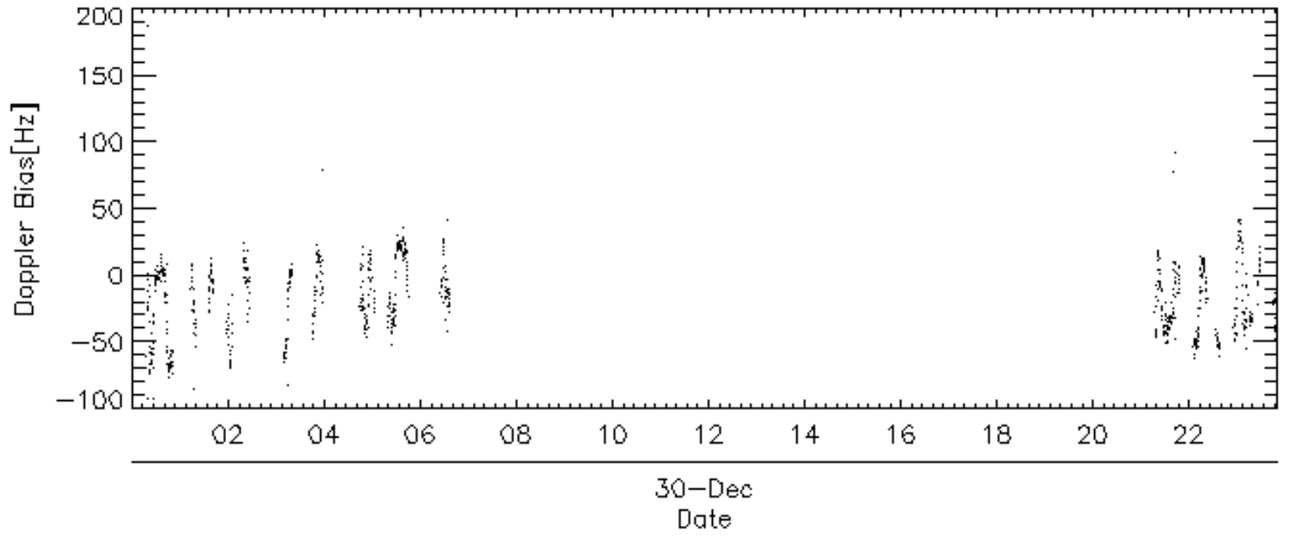

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

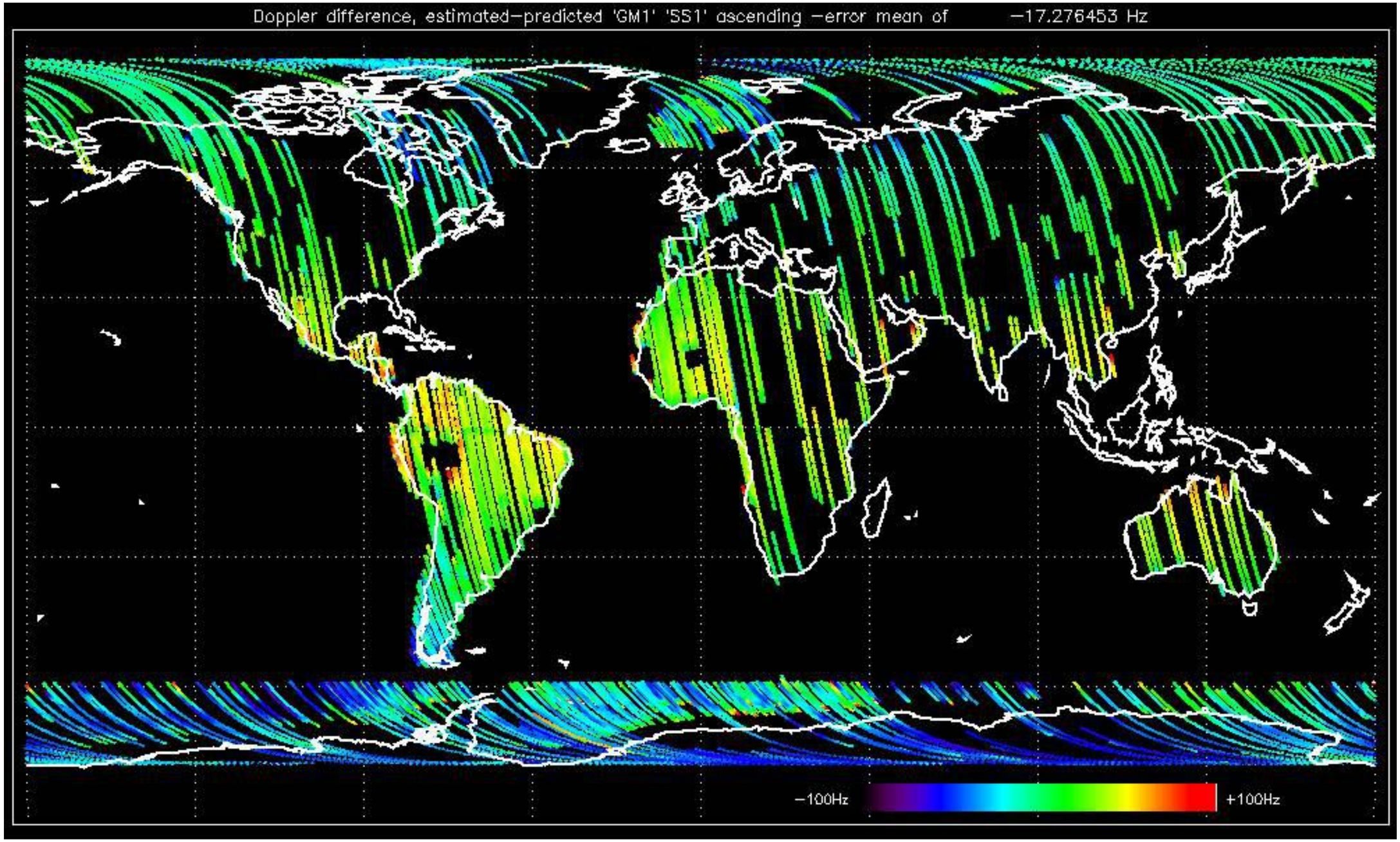

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

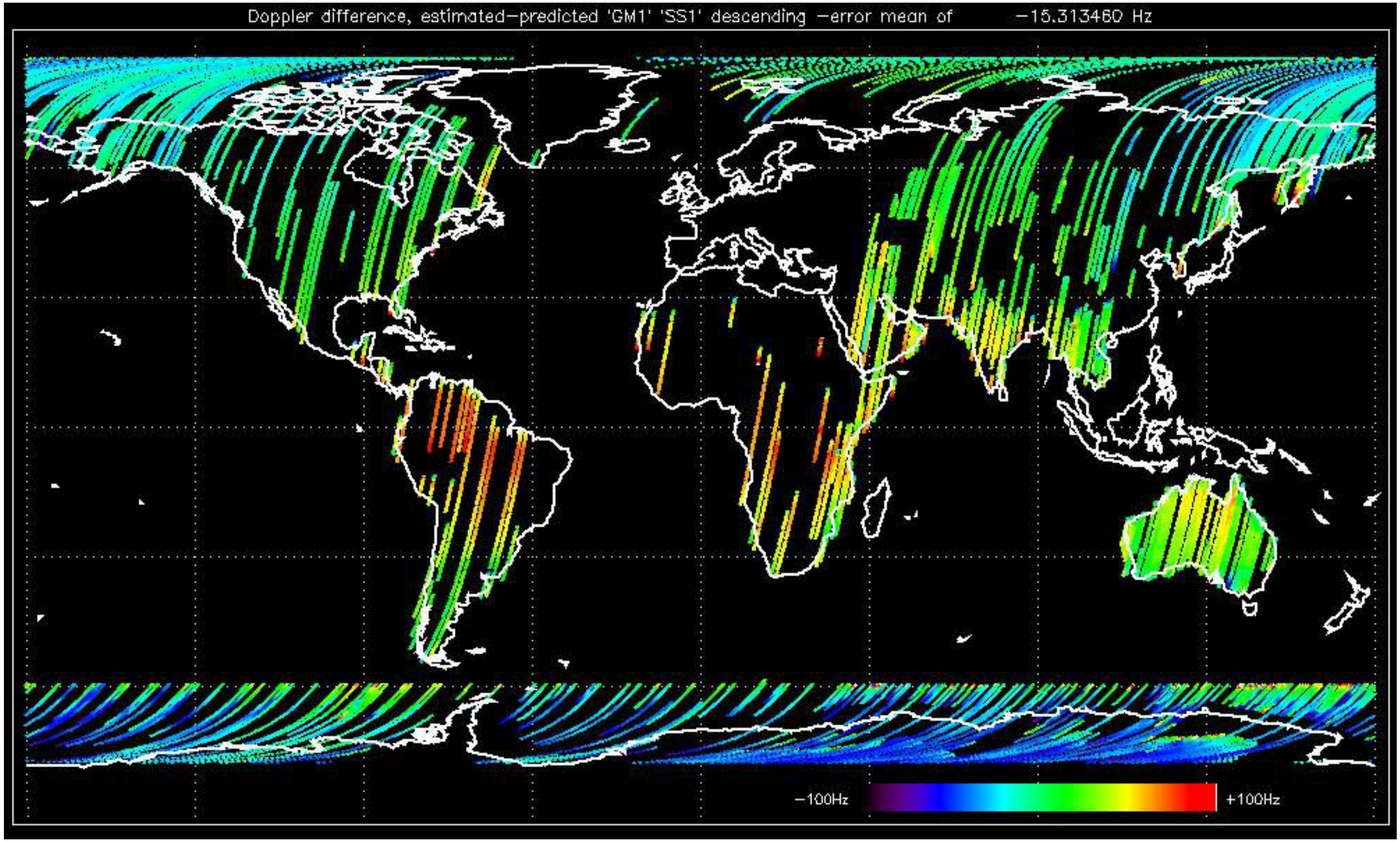

Doppler Bias[Hz]
150
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
30−Dec
Date

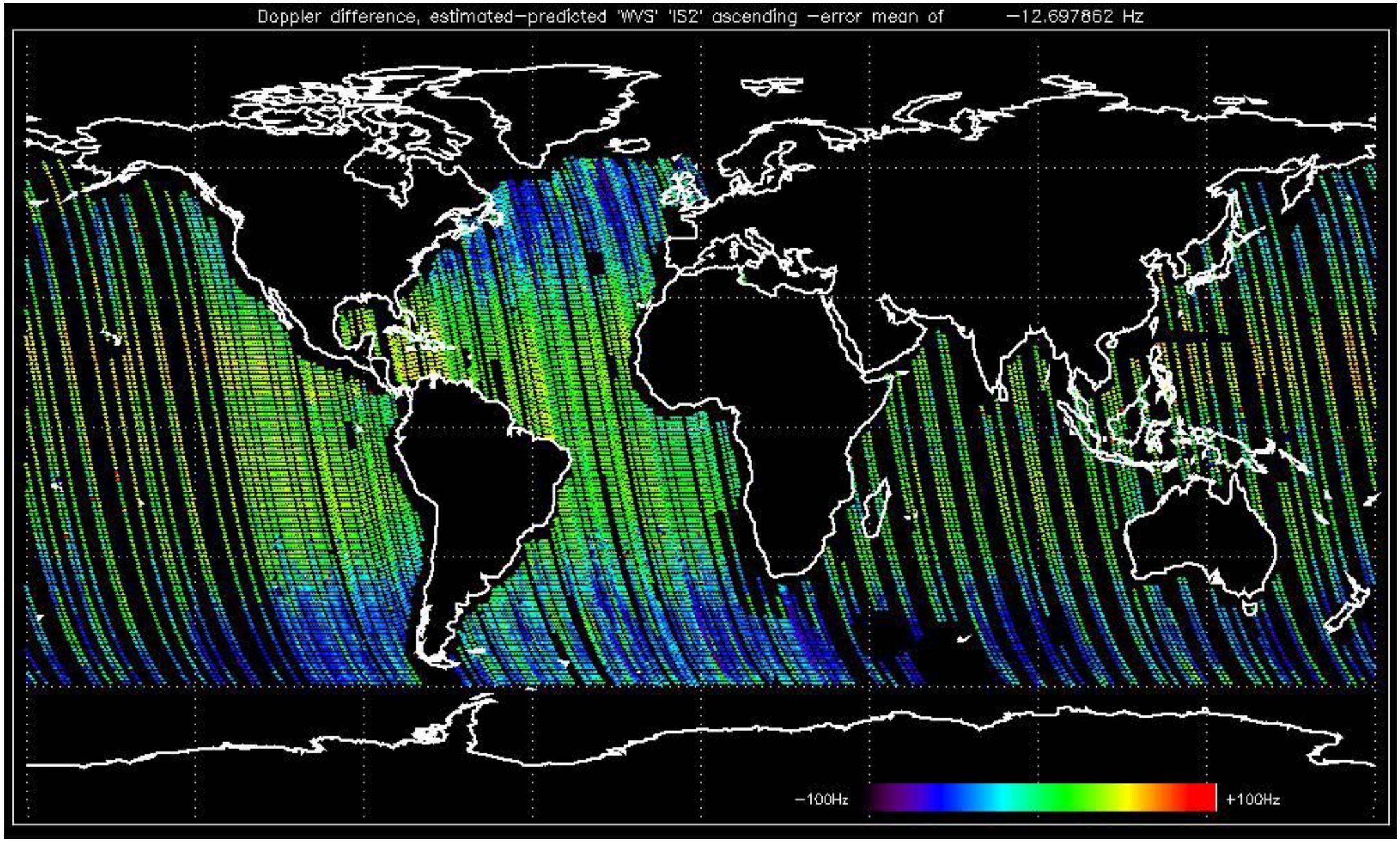

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

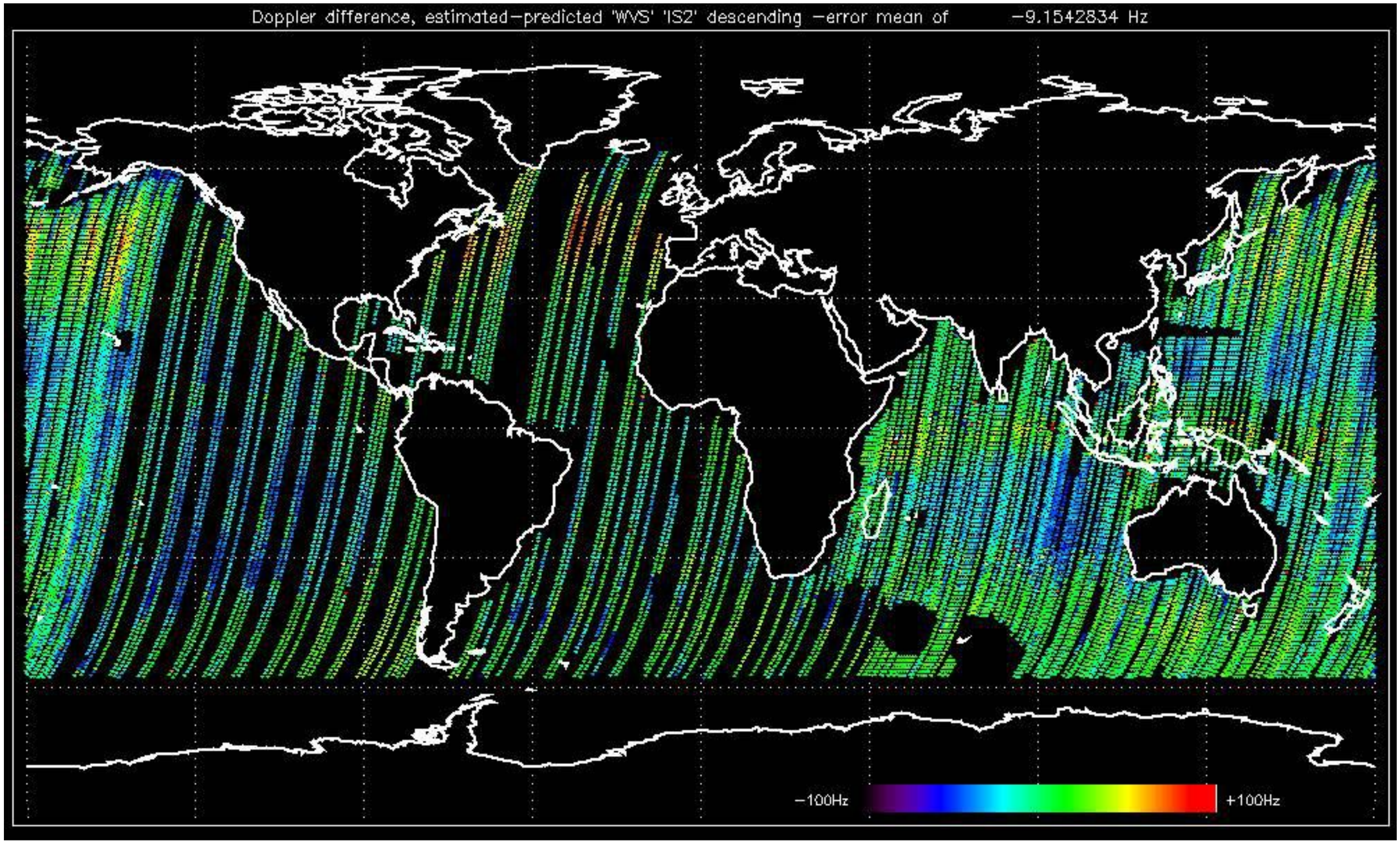

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


Doppler Bias[Hz]
200
150
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
30−Dec
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −17.276453 Hz
−100Hz
+100Hz

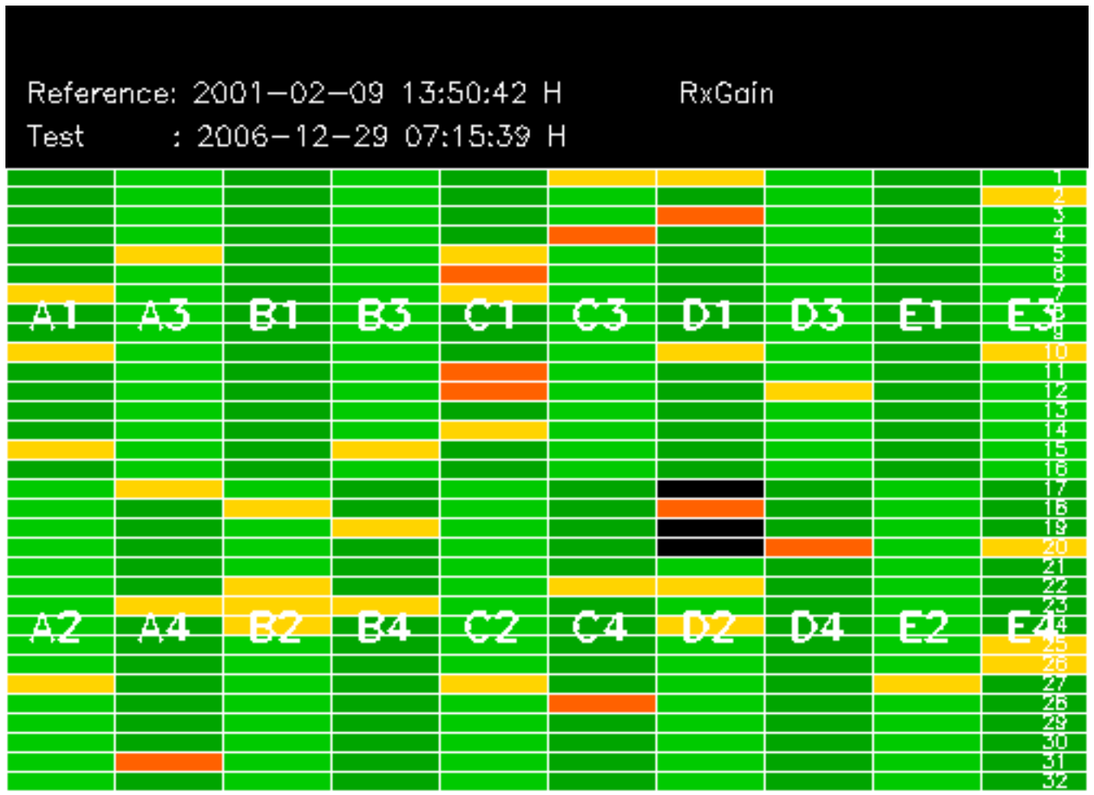

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -15.313460 Hz
-100Hz
+100Hz

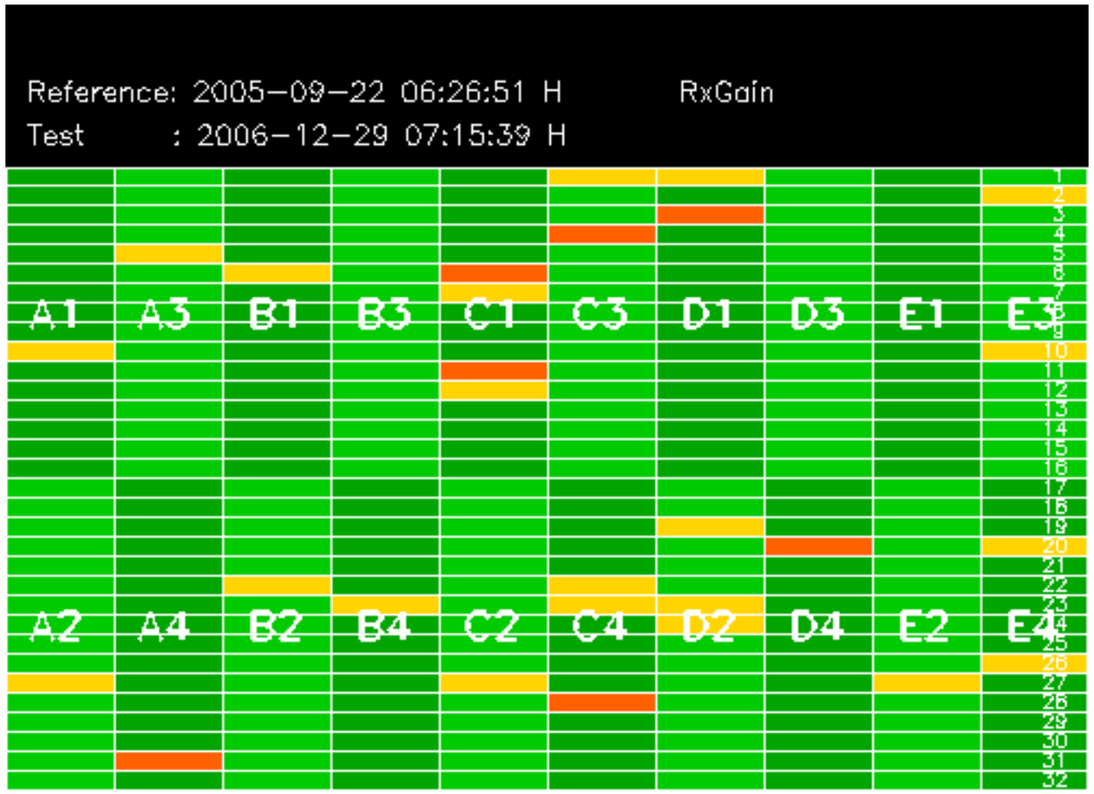

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −12.697862 Hz
−100Hz
+100Hz

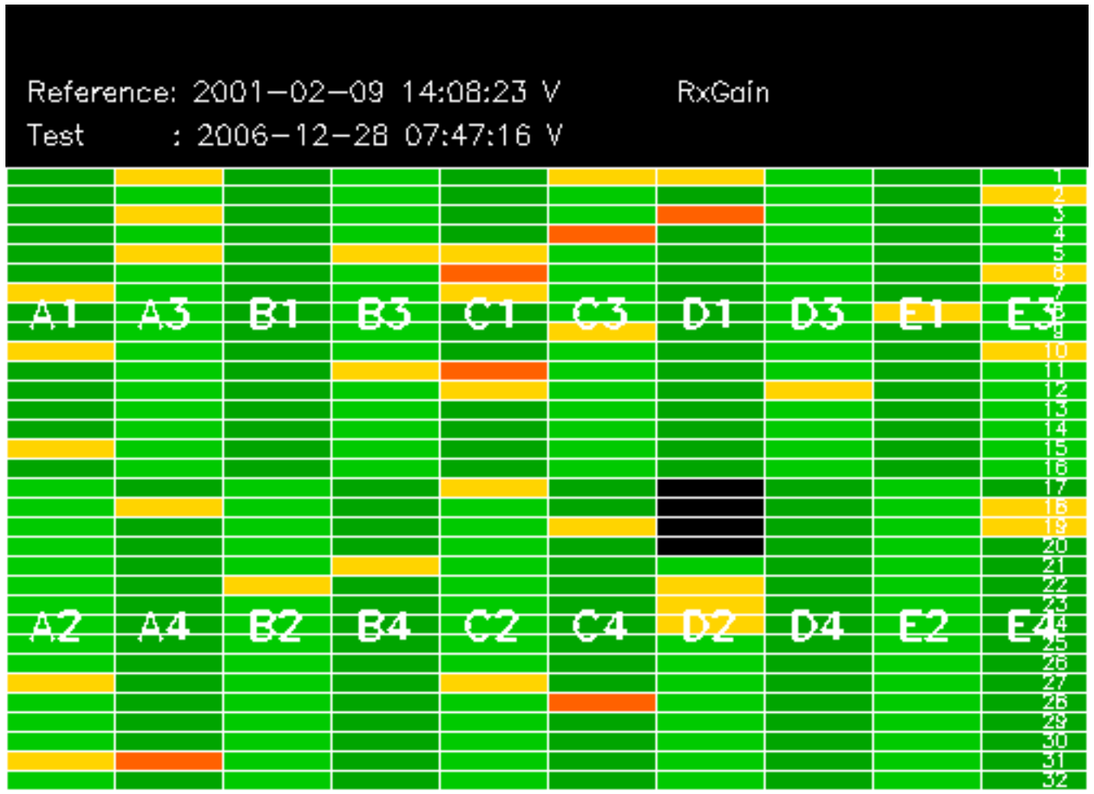

Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −9.1542834 Hz
−100Hz
+100Hz

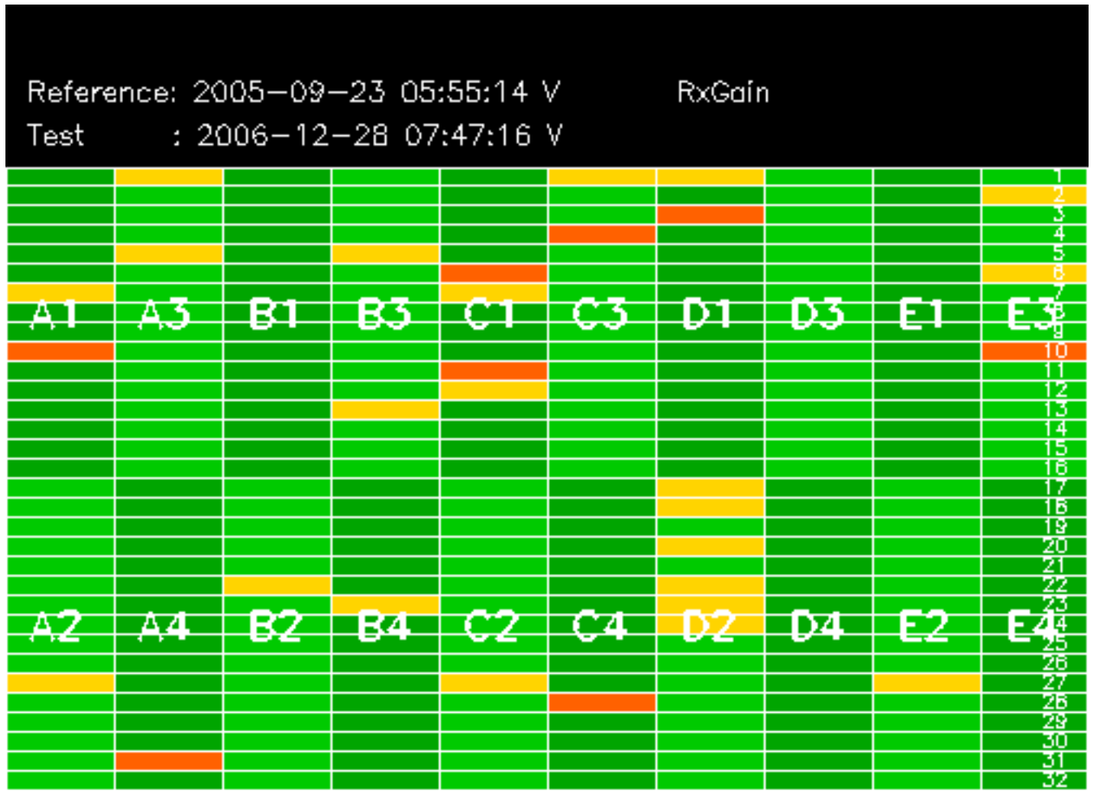
No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-12-29 07:15:39 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 : 2006-12-29 07:15:39 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2006-12-28 07:47:16 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 : 2006-12-28 07:47:16 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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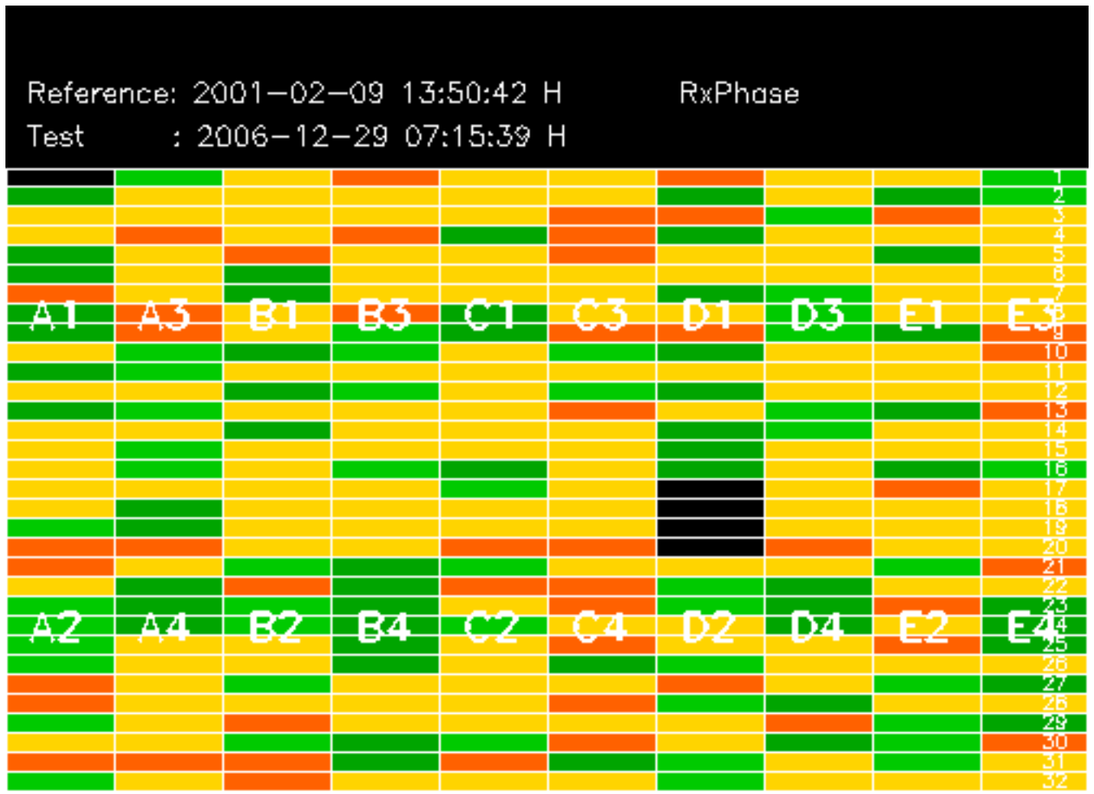
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-12-29 07:15:39 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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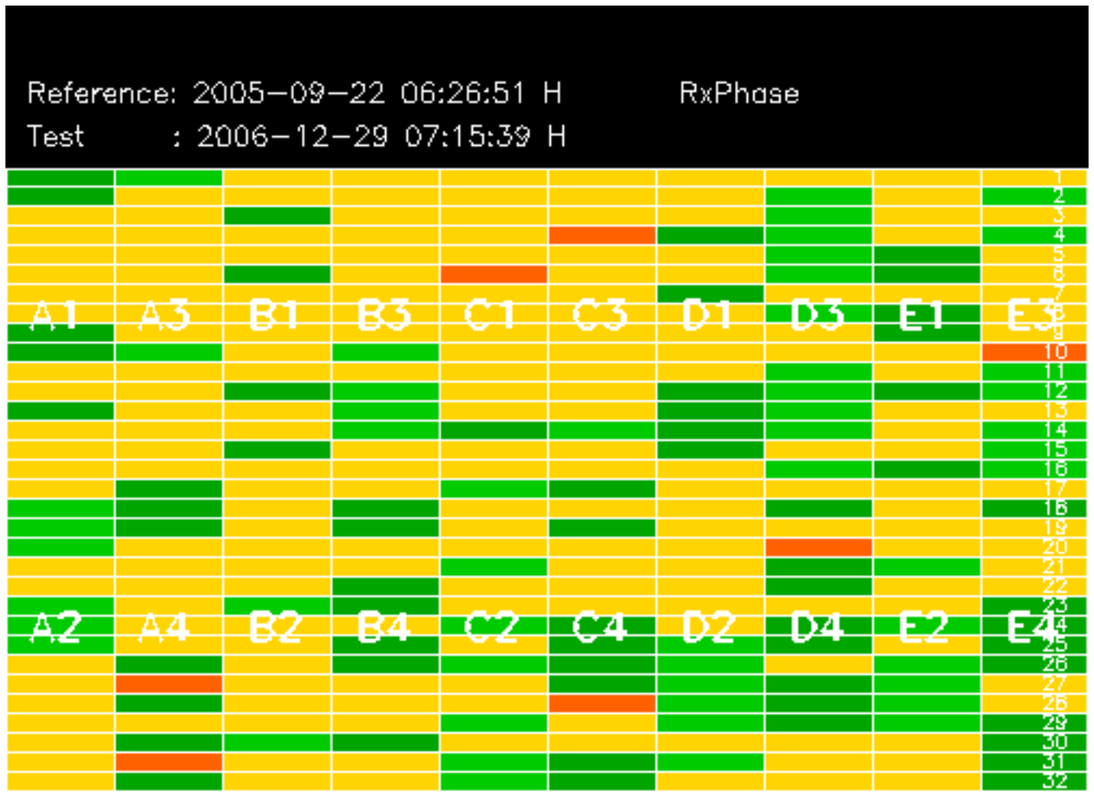
Reference: 2005-09-22 06:26:51 H
RxPhase
Test : 2006-12-29 07:15:39 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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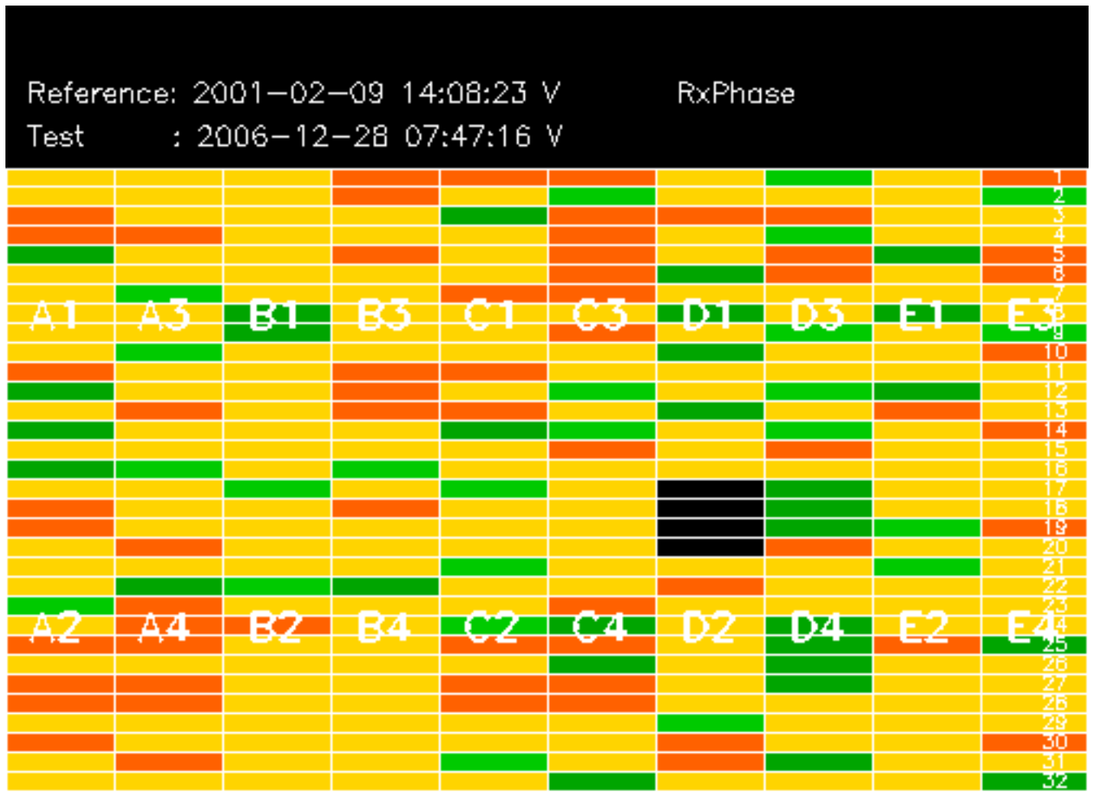
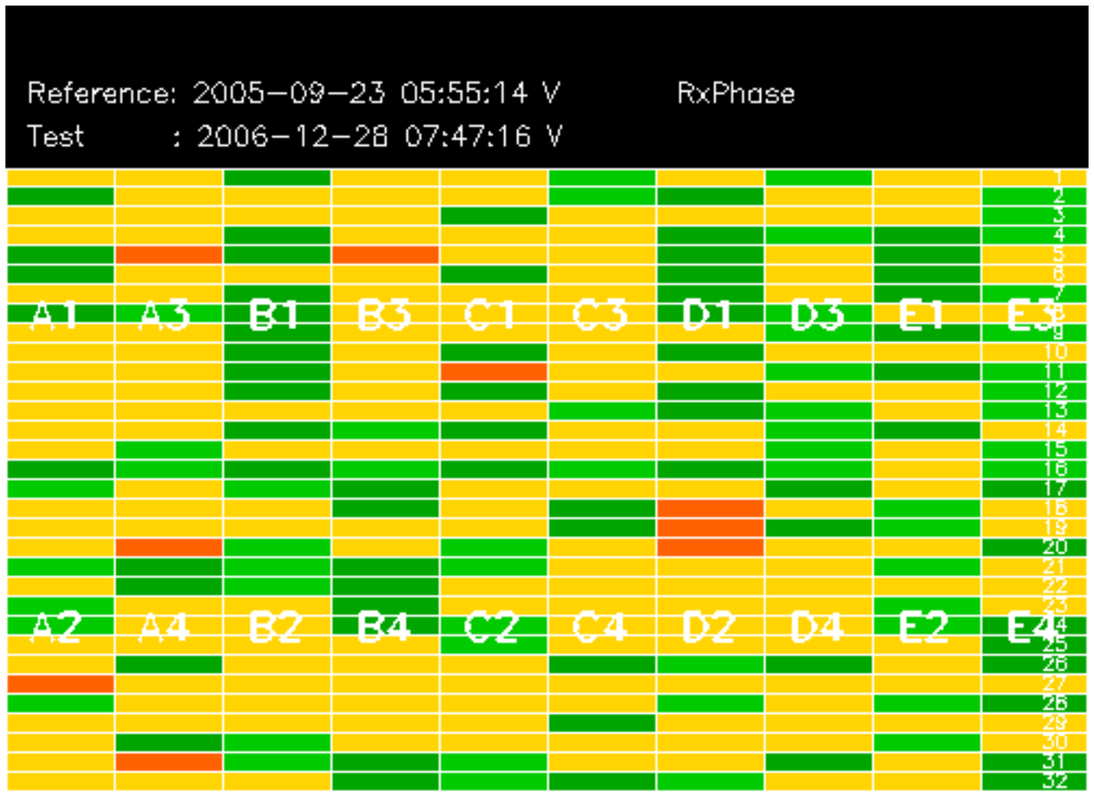

Reference: 2001-02-09 14:08:23 V
Test : 2006-12-28 07:47:16 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2006-12-28 07:47:16 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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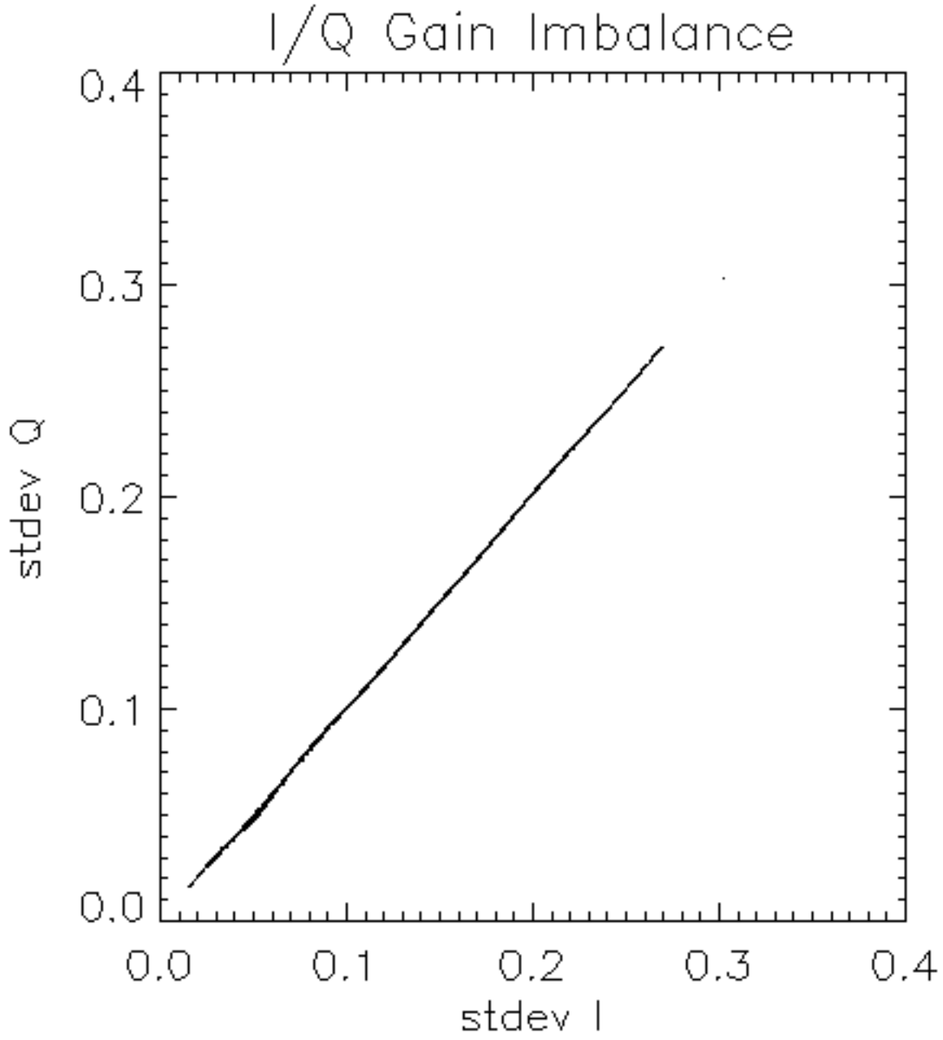
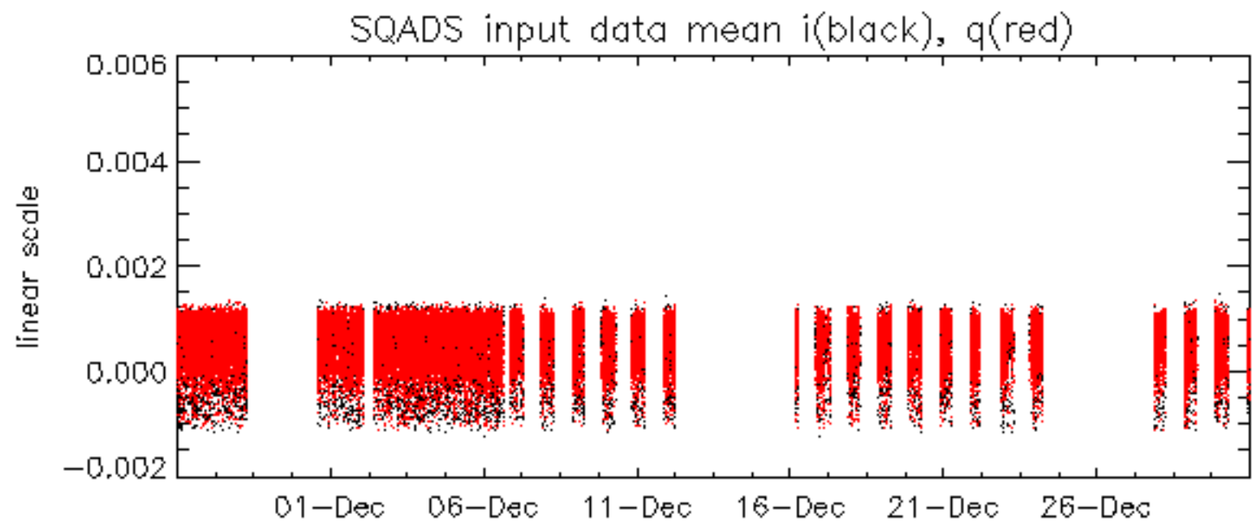
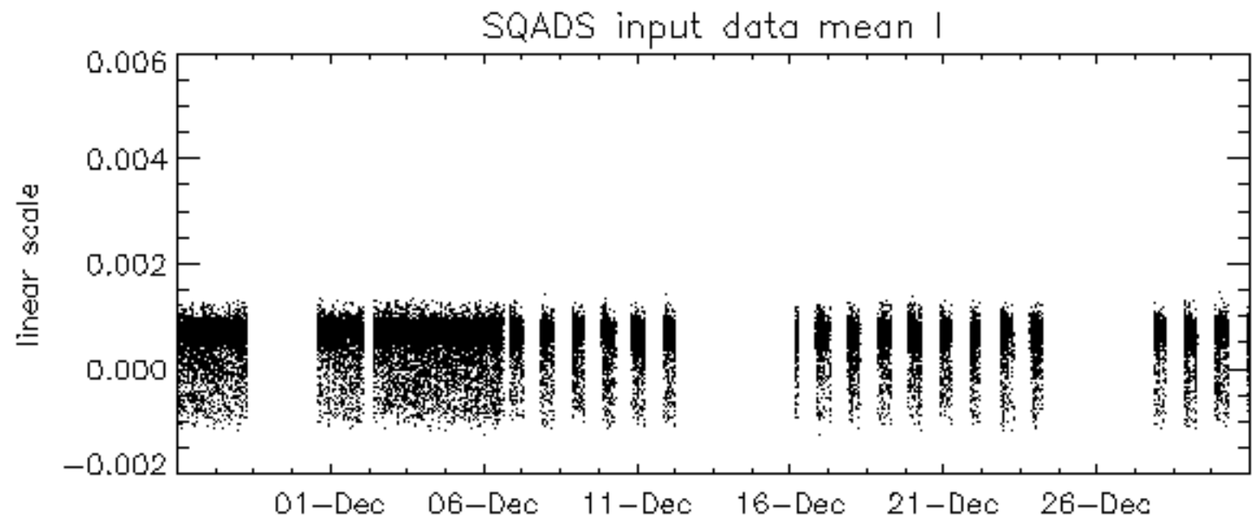
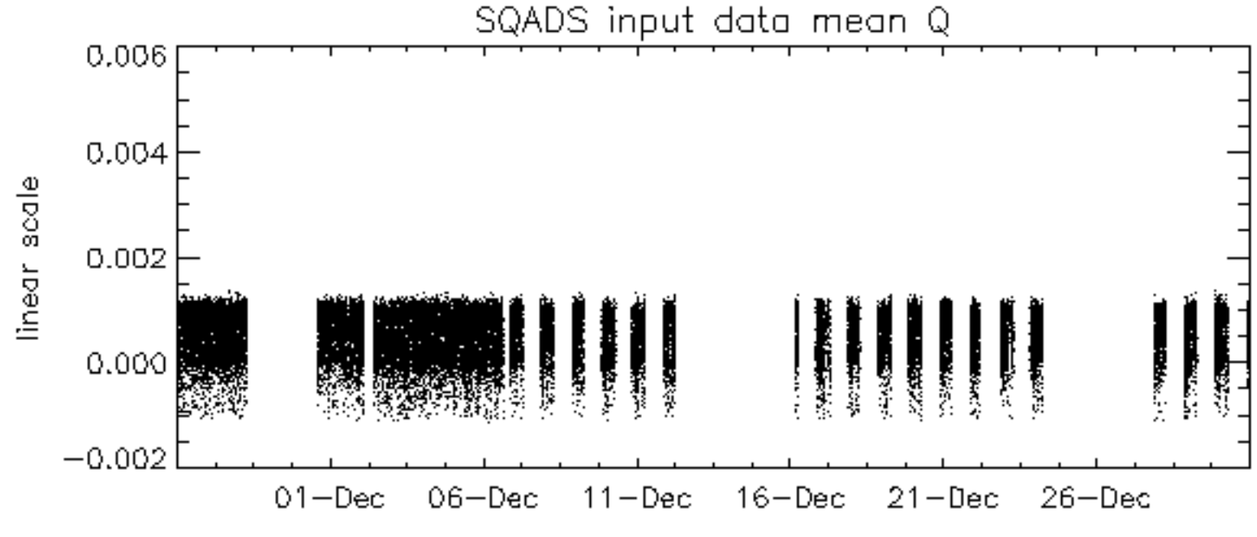
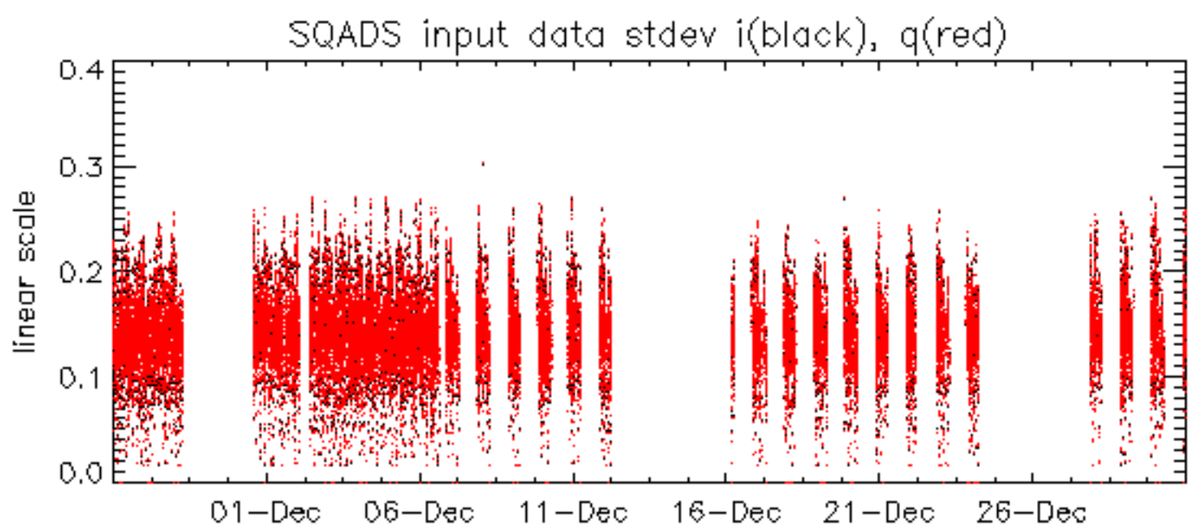
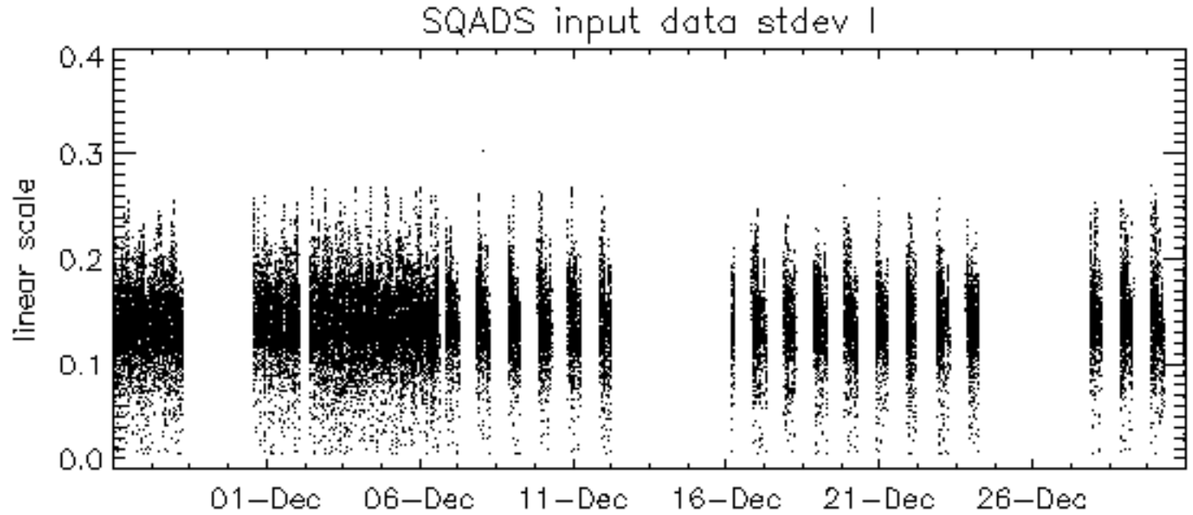

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

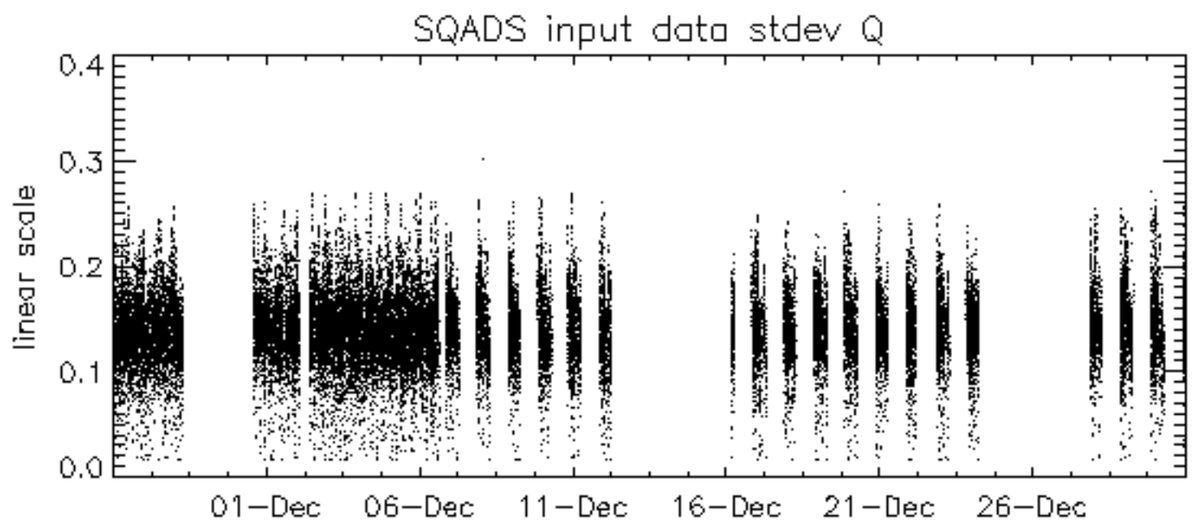

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Dec
06−Dec
11−Dec
16−Dec
21−Dec
26−Dec

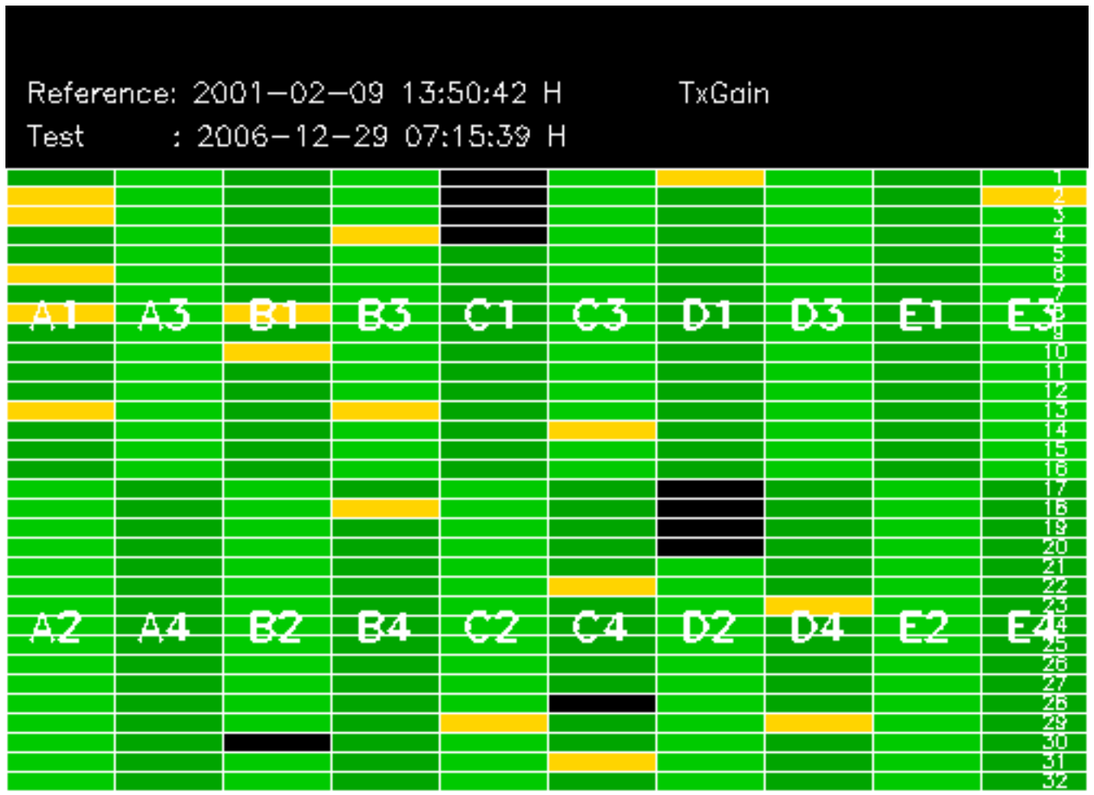

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Dec
06−Dec
11−Dec
16−Dec
21−Dec
26−Dec

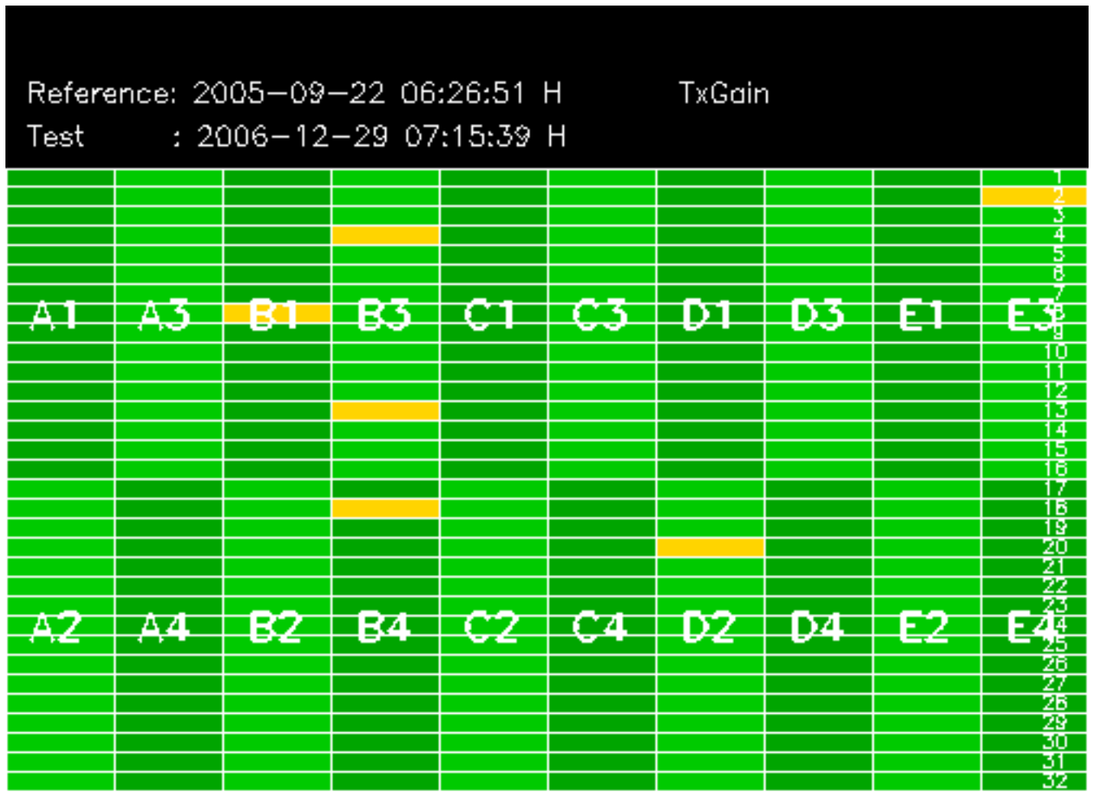

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Dec
06−Dec
11−Dec
16−Dec
21−Dec
26−Dec


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
01−Dec
06−Dec
11−Dec
16−Dec
21−Dec
26−Dec


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
01−Dec
06−Dec
11−Dec
16−Dec
21−Dec
26−Dec


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
01−Dec
06−Dec
11−Dec
16−Dec
21−Dec
26−Dec


Reference: 2001-02-09 13:50:42 H
Test : 2006-12-29 07:15:39 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 : 2006-12-29 07:15:39 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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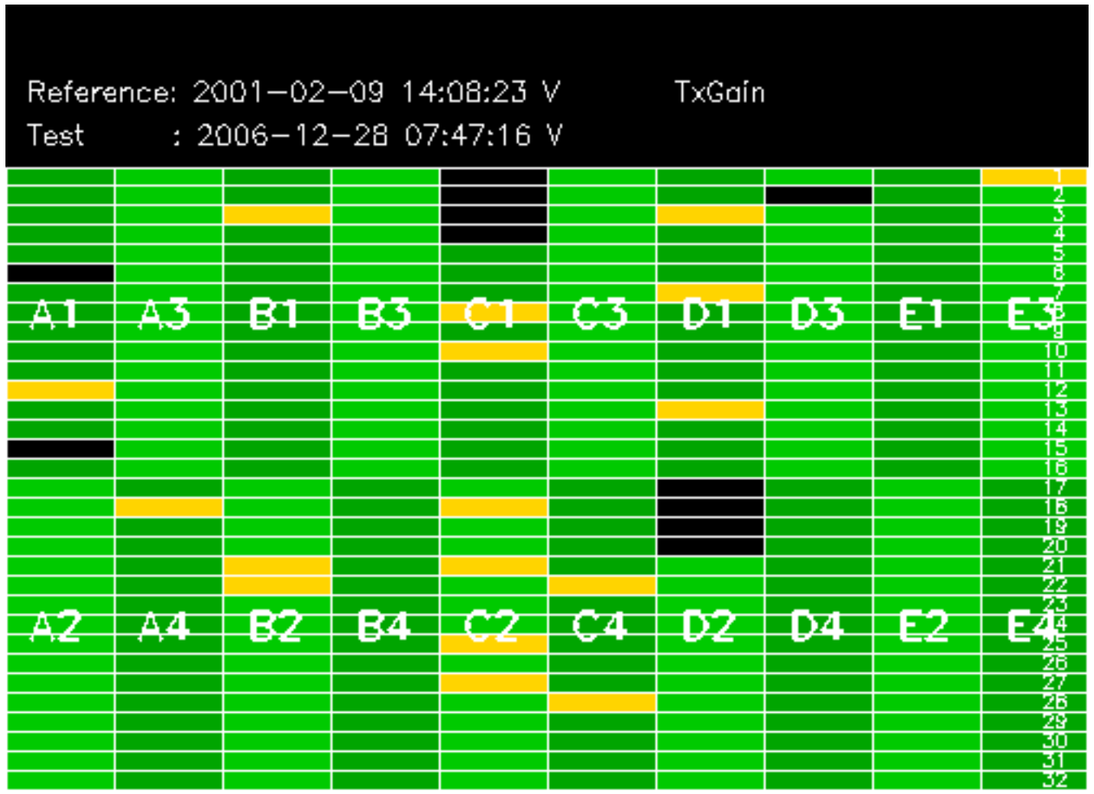
Reference: 2001-02-09 14:08:23 V
Test : 2006-12-28 07:47:16 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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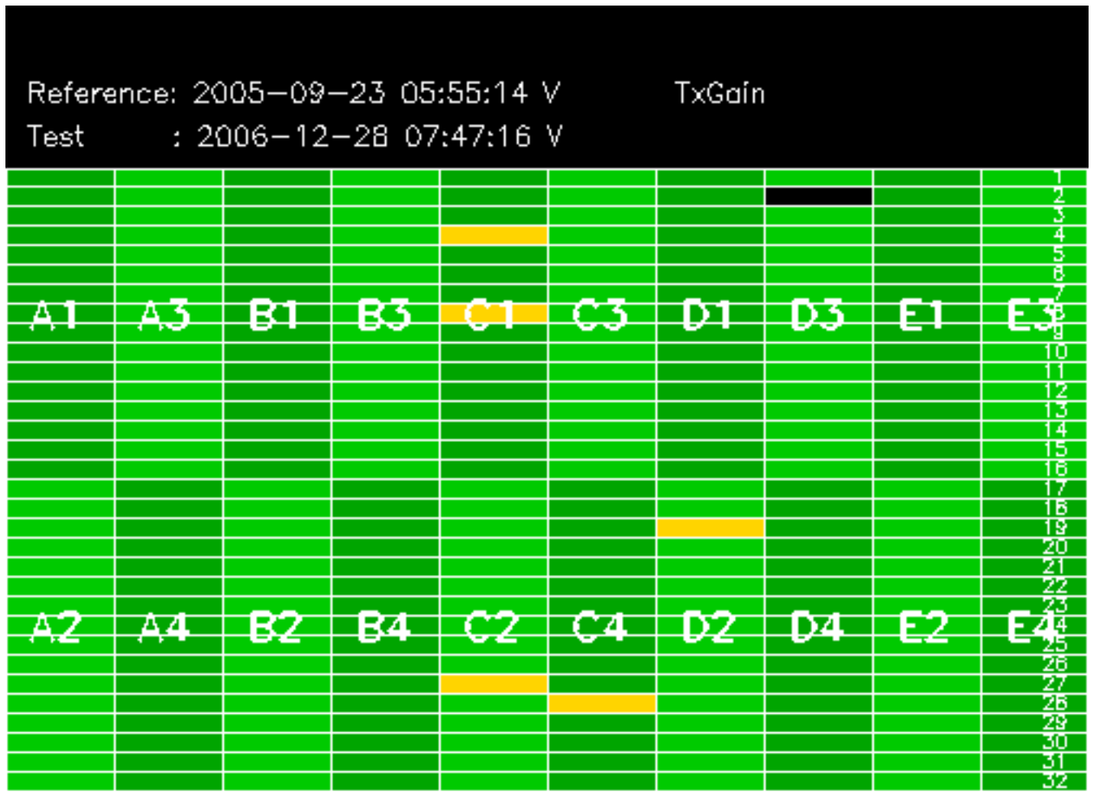
Reference: 2005-09-23 05:55:14 V
Test : 2006-12-28 07:47:16 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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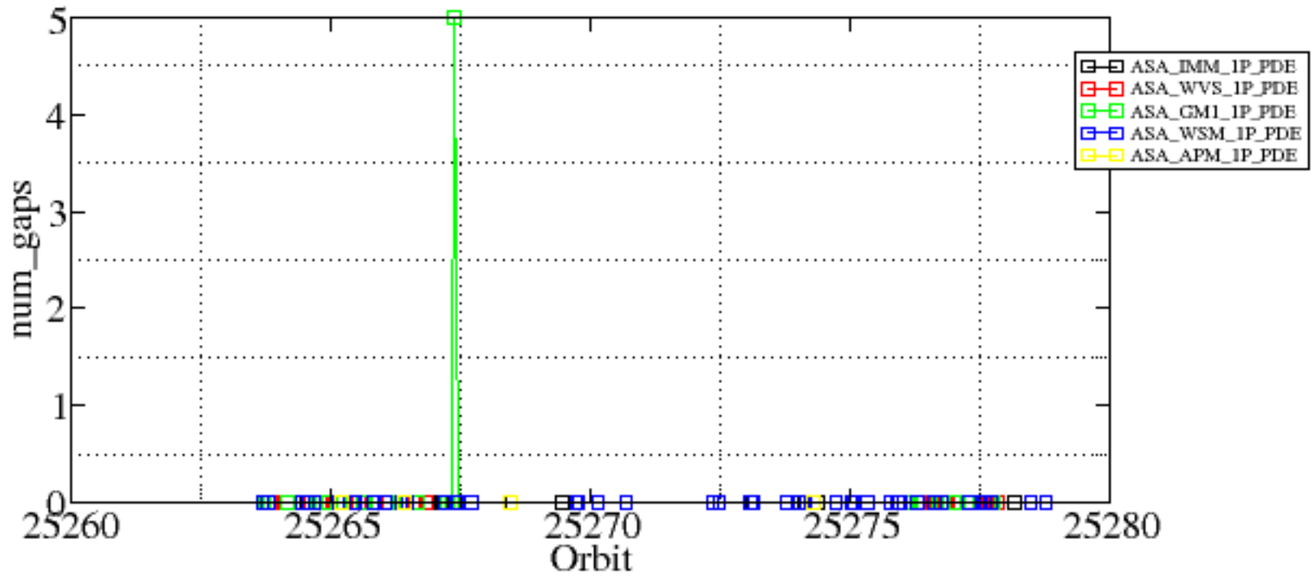
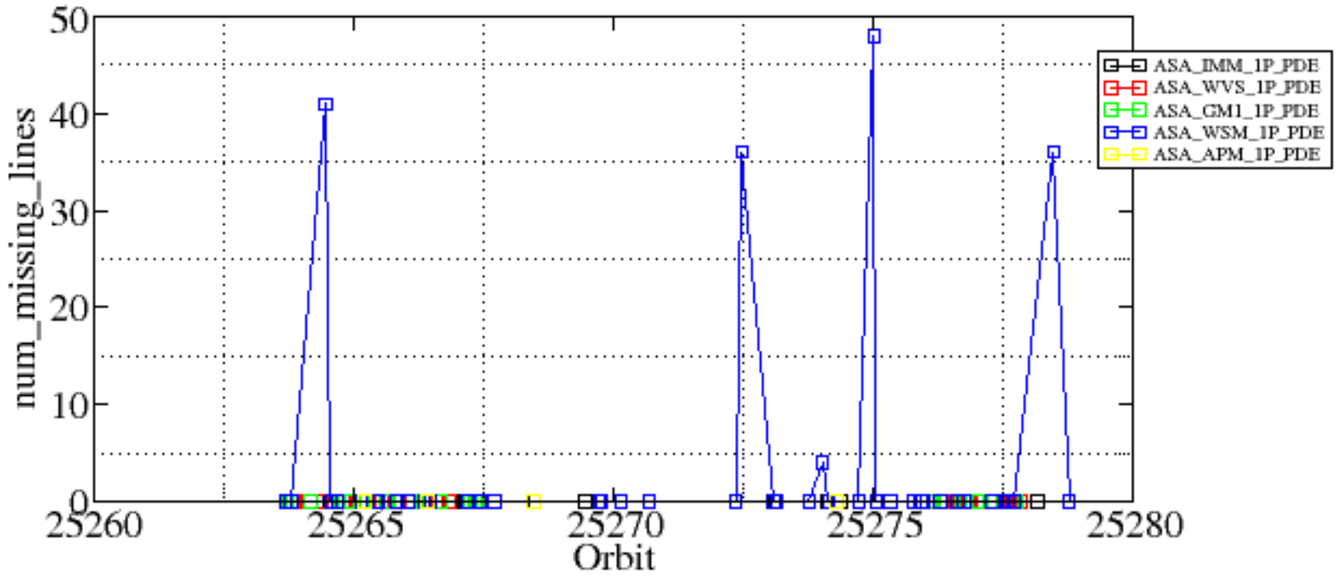
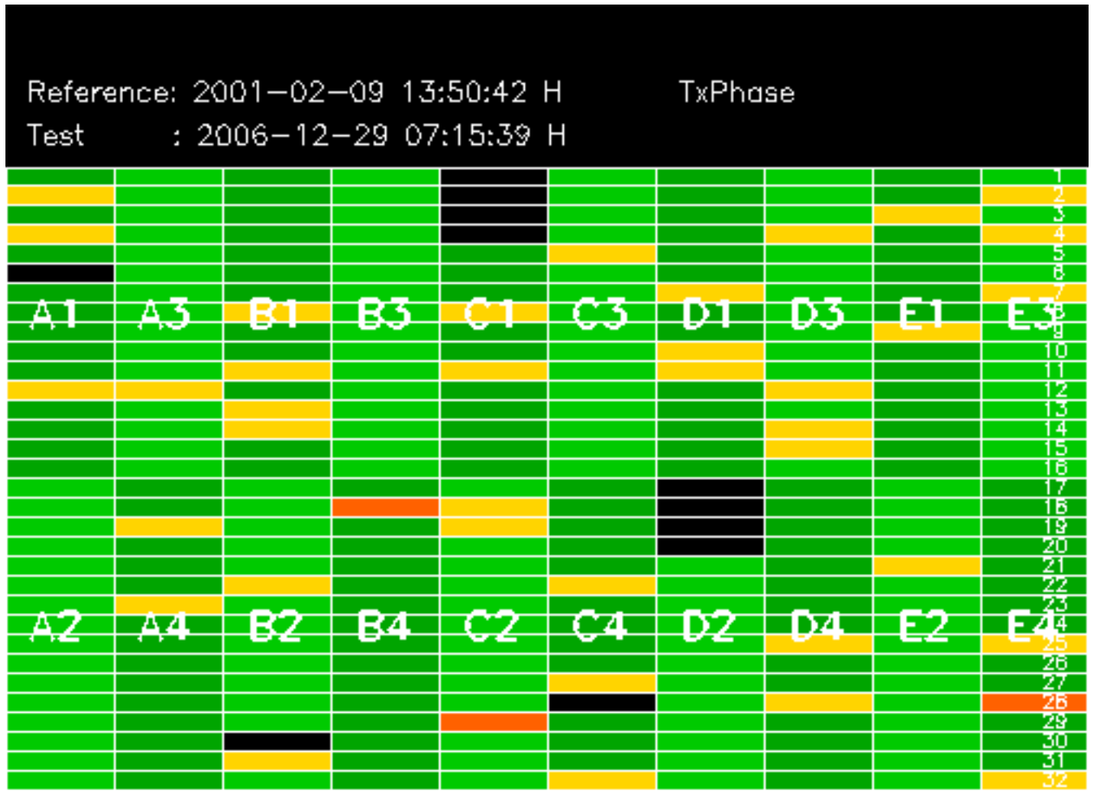
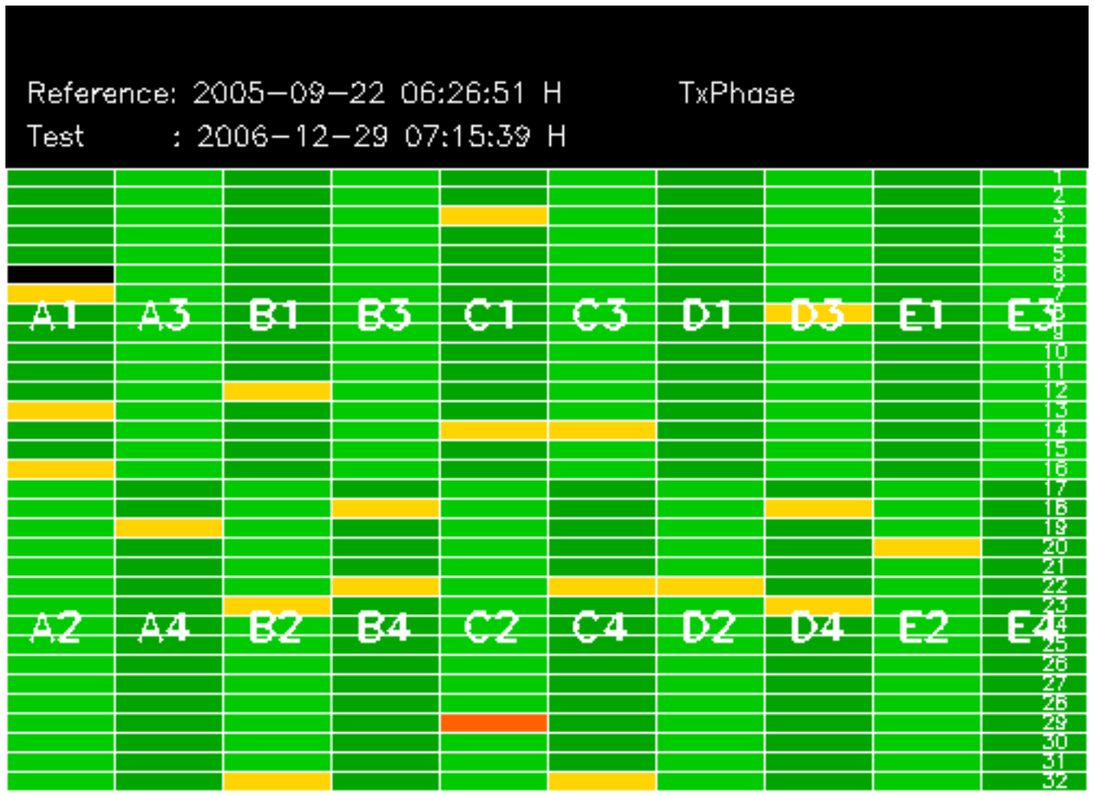
Summary of analysis for the last 3 days 2006123[901]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_GM1_1PNPDE20061230_061449_000002592054_00163_25267_3906.N1 </td> <td>5 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20061230_012058_000004402054_00160_25264_3489.N1 </td> <td>0 </td> <td>41 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20061230_144646_000004462054_00168_25272_4293.N1 </td> <td>0 </td> <td>36 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20061230_172249_000001772054_00170_25274_4329.N1 </td> <td>0 </td> <td>4 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20061230_190232_000000972054_00171_25275_4361.N1 </td> <td>0 </td> <td>48 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20061231_005022_000002612054_00174_25278_4768.N1 </td> <td>0 </td> <td>36 </td></tr>
</table>


num_gaps
Orbit
0
1
2
3
4
5
25260
25265
25270
25275
25280
ASA_IMM_1P_PDE
ASA_WVS_1P_PDE
ASA_GM1_1P_PDE
ASA_WSM_1P_PDE
ASA_APM_1P_PDE


num_missing_lines
Orbit
50
40
30
20
10
0
25260
25265
25270
25275
25280
ASA_IMM_1P_PDE
ASA_WVS_1P_PDE
ASA_GM1_1P_PDE
ASA_WSM_1P_PDE
ASA_APM_1P_PDE


Reference: 2001-02-09 13:50:42 H
Test : 2006-12-29 07:15:39 H
TxPhase
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 : 2006-12-29 07:15:39 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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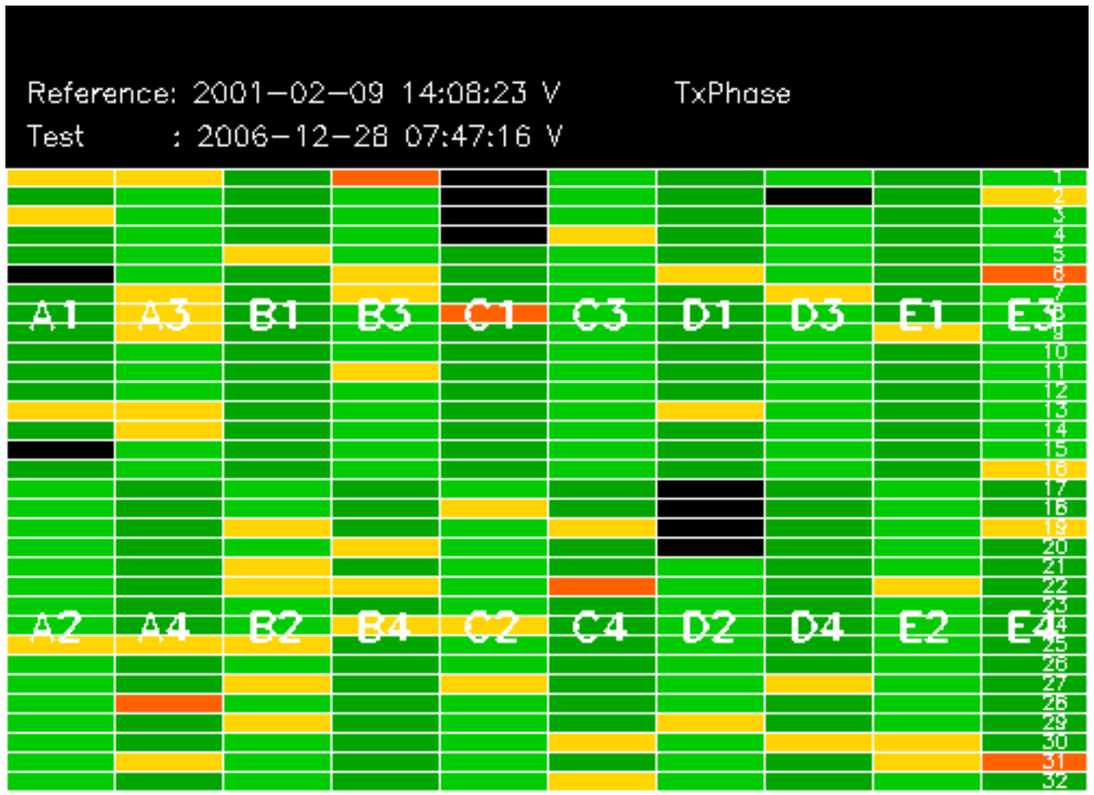
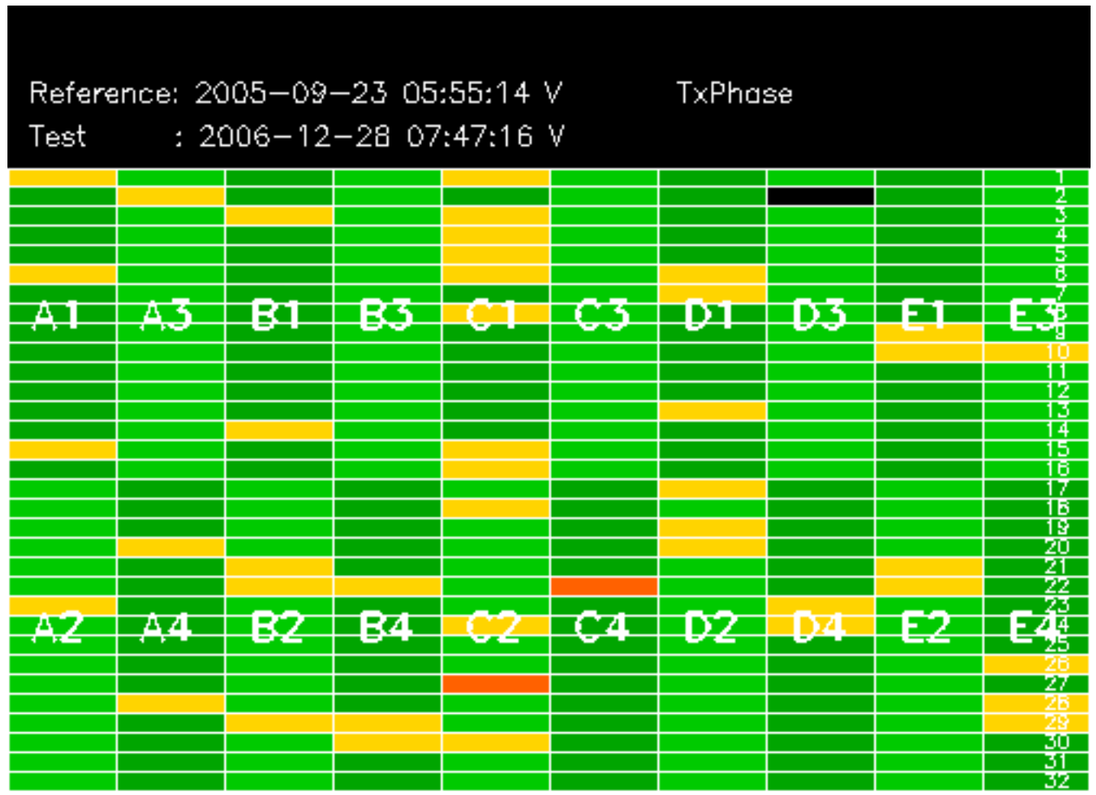
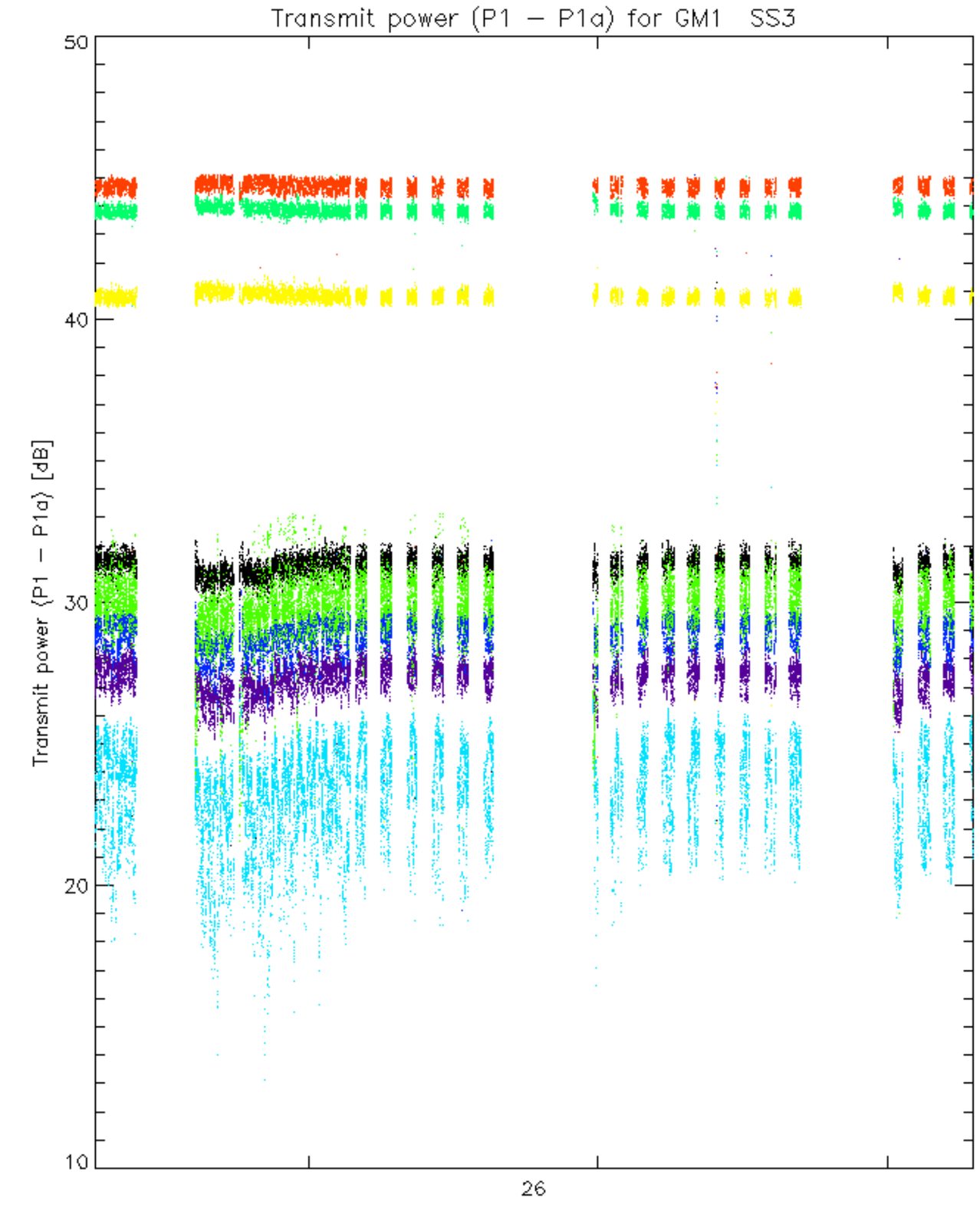
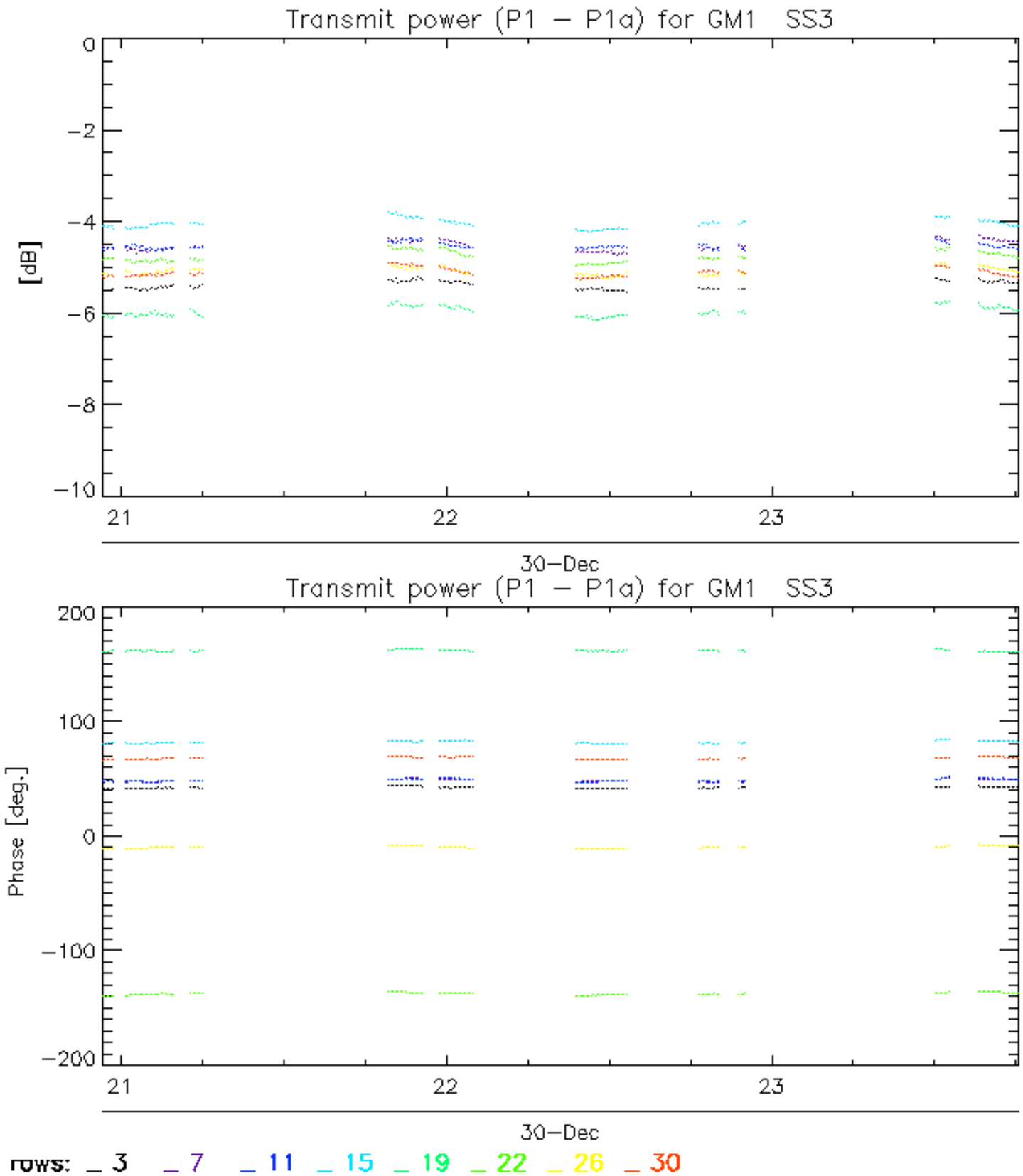
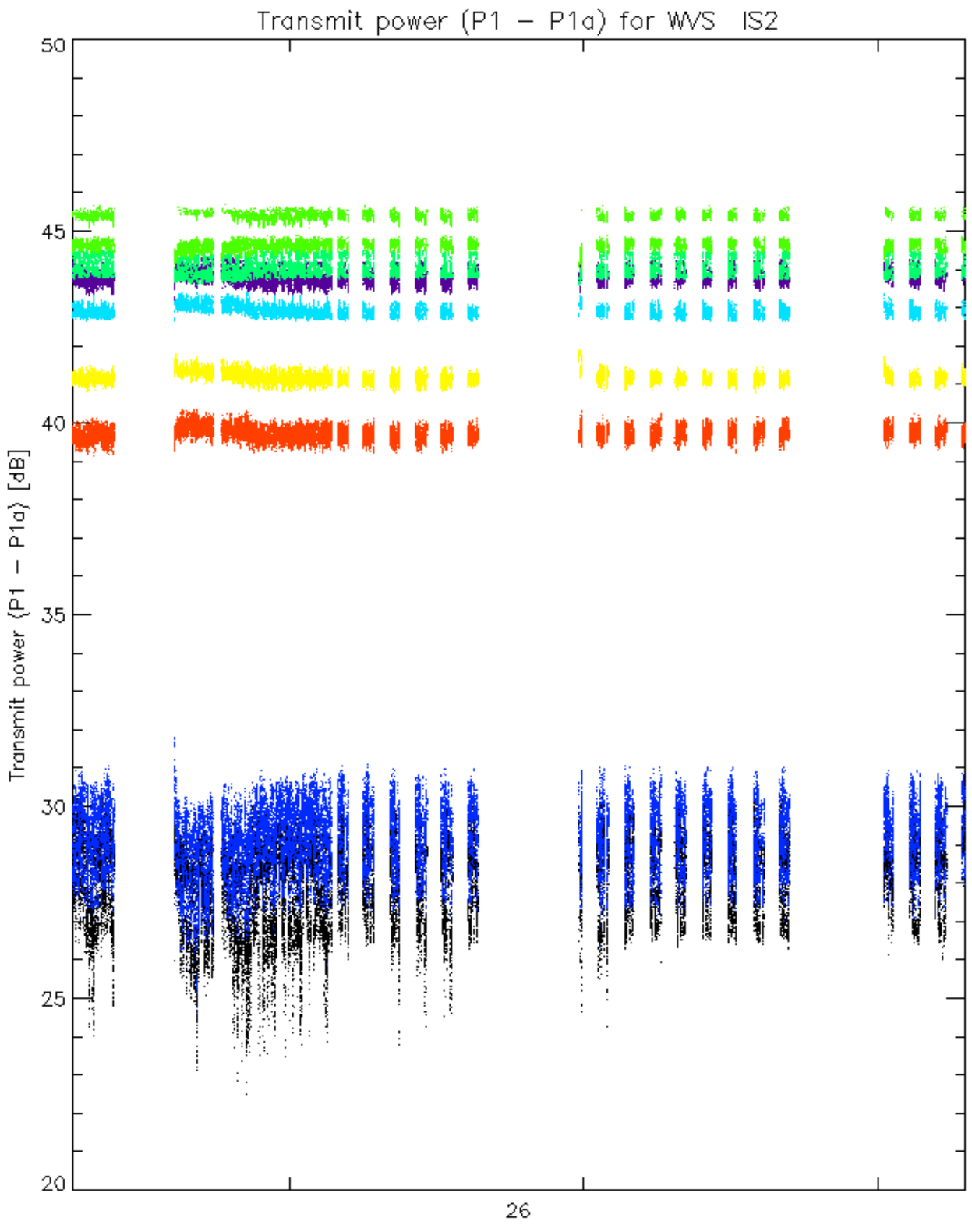
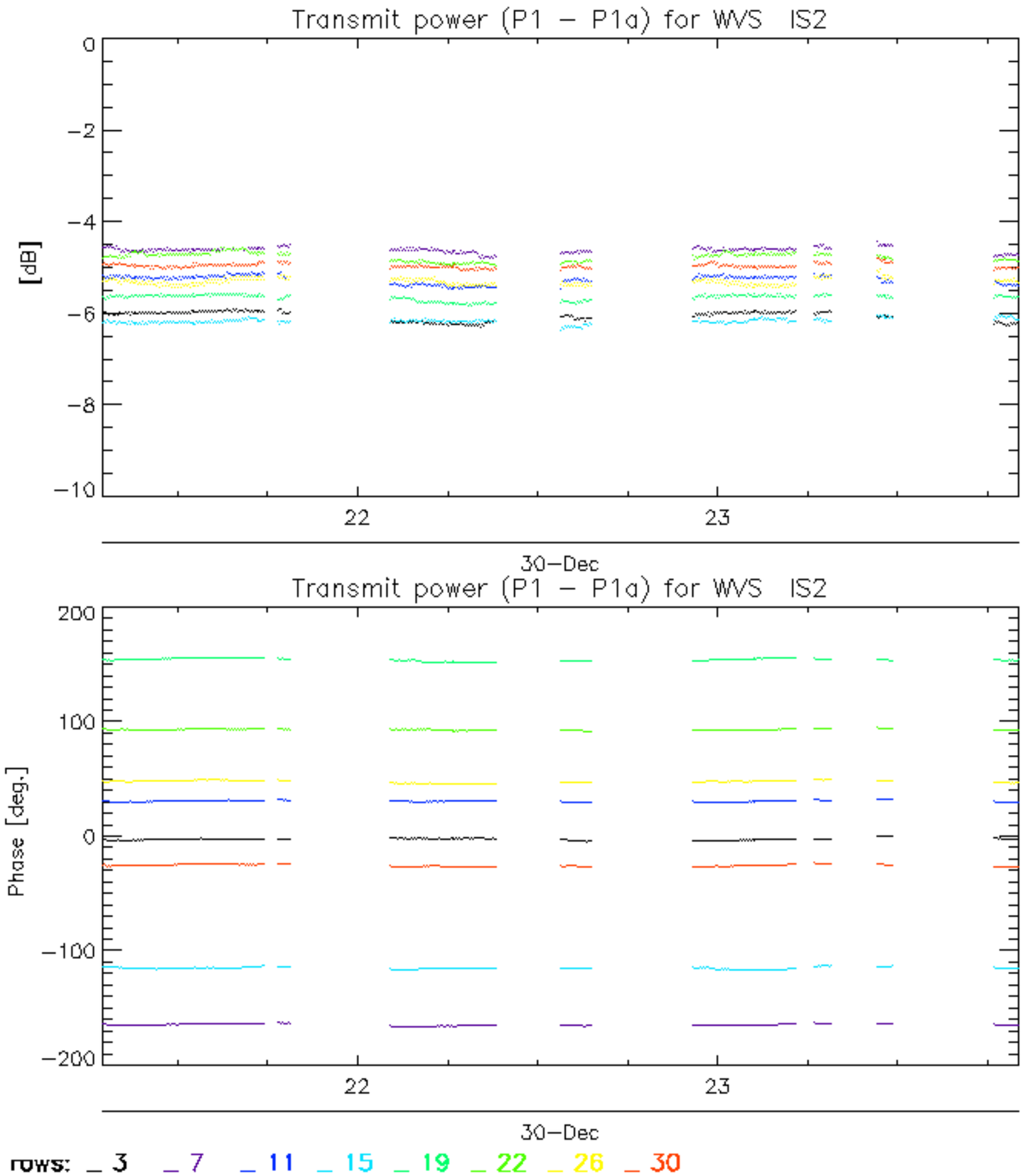

Reference: 2001-02-09 14:08:23 V
Test : 2006-12-28 07:47:16 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2006-12-28 07:47:16 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
50
40
30
20
10
Transmit power (P1 – P1a) [dB]
26
rows: 3 7 11 15 19 22 26 30


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


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

No unavailabilities during the reported period.