PRELIMINARY REPORT OF 061204

last update on Mon Dec 4 18:46:33 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 2006-12-03 00:00:00 to 2006-12-04 18:46:34

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	38	57	12	5	20
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	38	57	12	5	20
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	38	57	12	5	20
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	38	57	12	5	20

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	45	52	70	12	37
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	45	52	70	12	37
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	45	52	70	12	37
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	45	52	70	12	37

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	20061204 084156
H	20061204 015931

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	-3.957958	0.008431	-0.006616
7	P1	-3.151512	0.024036	0.004294
11	P1	-4.128859	0.025333	0.014411
15	P1	-6.299047	0.014762	-0.030840
19	P1	-3.616024	0.006287	-0.047885
22	P1	-4.647749	0.012944	-0.013345
26	P1	-3.948687	0.010579	0.004390
30	P1	-5.869413	0.009597	-0.045013
3	P1	-16.511854	0.236427	-0.035948
7	P1	-17.288607	0.179820	-0.038420
11	P1	-17.188318	0.453547	-0.112171
15	P1	-13.063350	0.137067	-0.004848
19	P1	-14.925902	0.091308	-0.149810
22	P1	-15.855538	0.527756	0.082436
26	P1	-15.050816	0.196588	0.024063
30	P1	-17.486097	0.476150	-0.085378

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.833122	0.091711	0.073503
7	P2	-21.731106	0.093995	0.001922
11	P2	-15.637068	0.102923	0.101733
15	P2	-7.120648	0.107348	0.013845
19	P2	-9.189713	0.104881	0.012741
22	P2	-18.233135	0.097477	-0.007851
26	P2	-16.557068	0.112013	-0.044679
30	P2	-19.469496	0.088531	0.030143

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.240144	0.008719	-0.010455
7	P3	-8.240144	0.008719	-0.010455
11	P3	-8.240144	0.008719	-0.010455
15	P3	-8.240144	0.008719	-0.010455
19	P3	-8.240144	0.008719	-0.010455
22	P3	-8.240144	0.008719	-0.010455
26	P3	-8.240067	0.008728	-0.010789
30	P3	-8.240067	0.008728	-0.010789

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	-3.908225	0.024344	-0.003138
7	P1	-2.499371	0.115661	0.060827
11	P1	-2.854305	0.026727	0.033280
15	P1	-3.681587	0.040194	0.014994
19	P1	-3.525700	0.017346	-0.026404
22	P1	-5.035249	0.022339	0.048907
26	P1	-6.002079	0.027671	-0.036238
30	P1	-5.321545	0.038372	-0.048875
3	P1	-11.723534	0.085659	-0.032873
7	P1	-10.052872	0.193889	0.003556
11	P1	-10.324376	0.127554	0.013334
15	P1	-10.733978	0.156423	0.123587
19	P1	-15.697593	0.104677	-0.083925
22	P1	-21.474047	1.447175	-0.379968
26	P1	-16.053617	0.324460	-0.041898
30	P1	-17.894566	0.388235	0.072527

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.460644	0.102942	0.003574
7	P2	-22.225237	0.265361	0.003507
11	P2	-10.930711	0.114664	0.072097
15	P2	-4.969637	0.210205	-0.025918
19	P2	-6.952245	0.245297	0.004517
22	P2	-8.252804	0.168679	0.021501
26	P2	-24.322657	0.179222	0.041658
30	P2	-21.949654	0.142306	0.026382

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.086469	0.003800	-0.003681
7	P3	-8.086488	0.003789	-0.003551
11	P3	-8.086524	0.003800	-0.003432
15	P3	-8.086429	0.003795	-0.003575
19	P3	-8.086497	0.003799	-0.003405
22	P3	-8.086419	0.003796	-0.003799
26	P3	-8.086404	0.003805	-0.003591
30	P3	-8.086461	0.003808	-0.003025

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	0.000547703
	stdev	1.78664e-07
MEAN Q	mean	0.000518854
	stdev	2.20321e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136840
	stdev	0.00114204
STDEV Q	mean	0.137208
	stdev	0.00116004

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006120[234]
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_WSM_1PNPDE20061202_010155_000000672053_00260_24863_5042.N1	0	35
ASA_WSM_1PNPDE20061202_010155_000001402053_00260_24863_5534.N1	0	35
ASA_WSM_1PNPDE20061202_170159_000000792053_00270_24873_5632.N1	0	11
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6506.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6579.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6802.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6989.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_7194.N1	0	34
ASA_WSM_1PNPDE20061203_231436_000000982053_00288_24891_7851.N1	0	57

ASA_APM_1PNPDE20061202_153639_000000892053_00269_24872_5526.N1	0	57

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

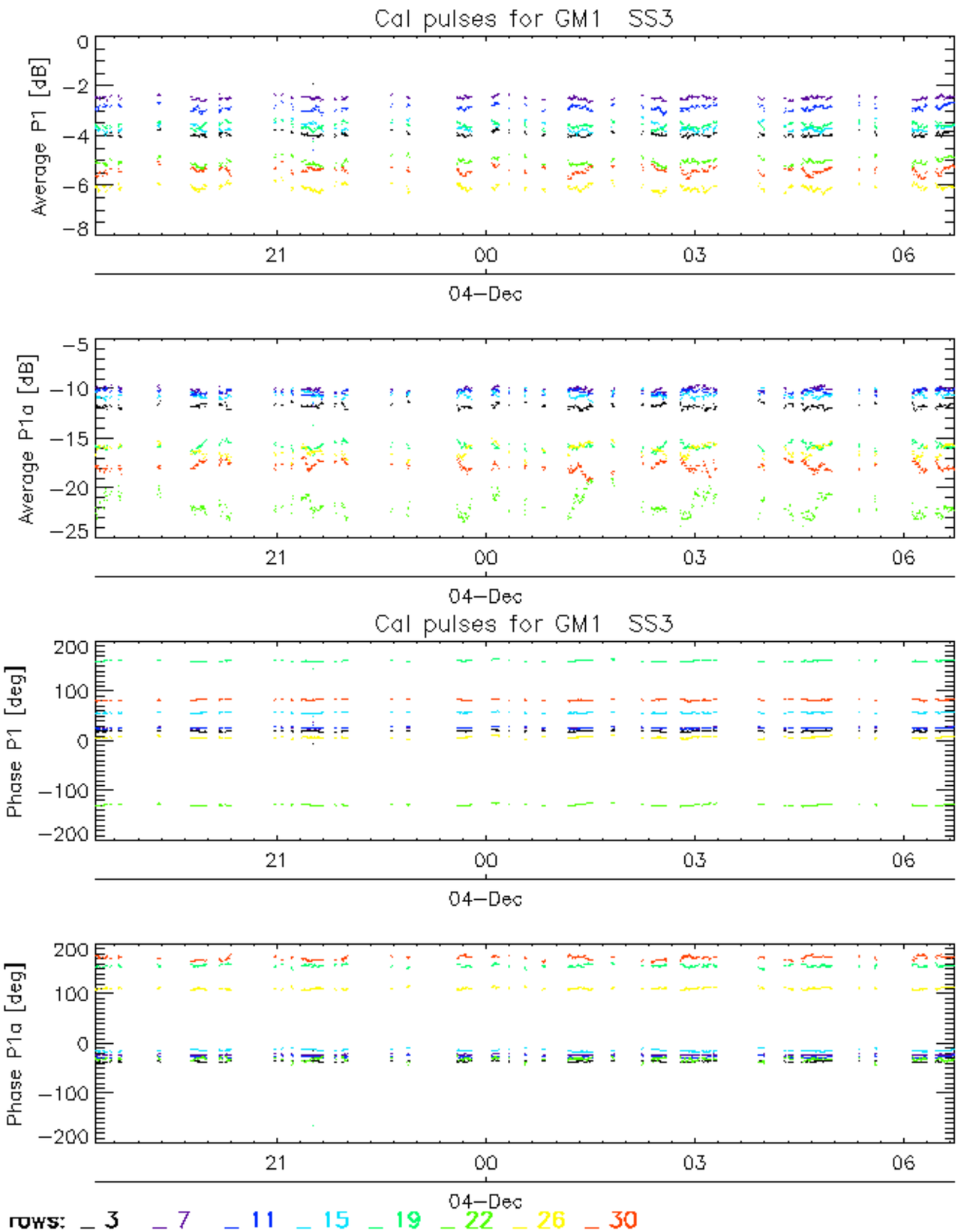
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

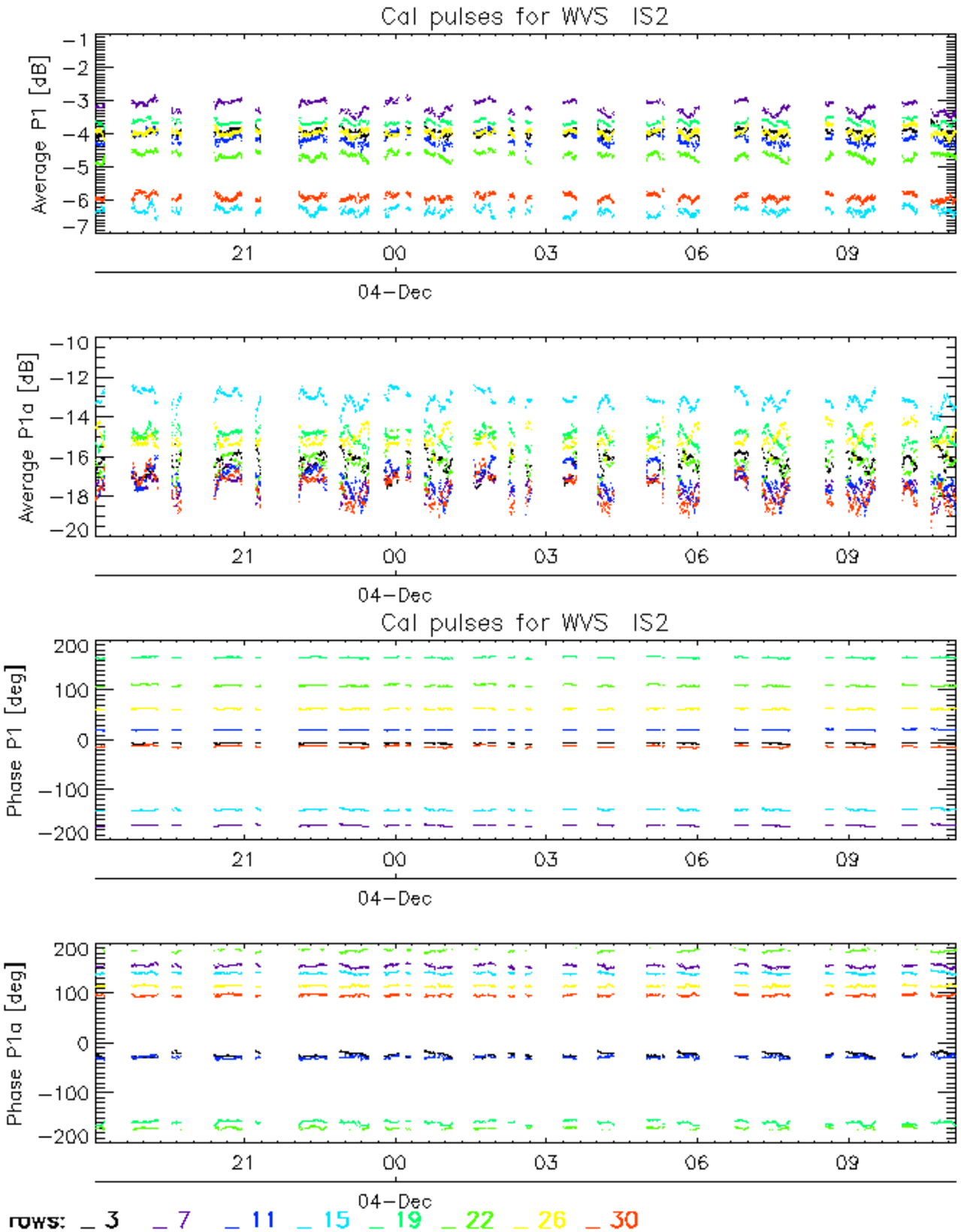
7.5 - Absolute Doppler for GM1

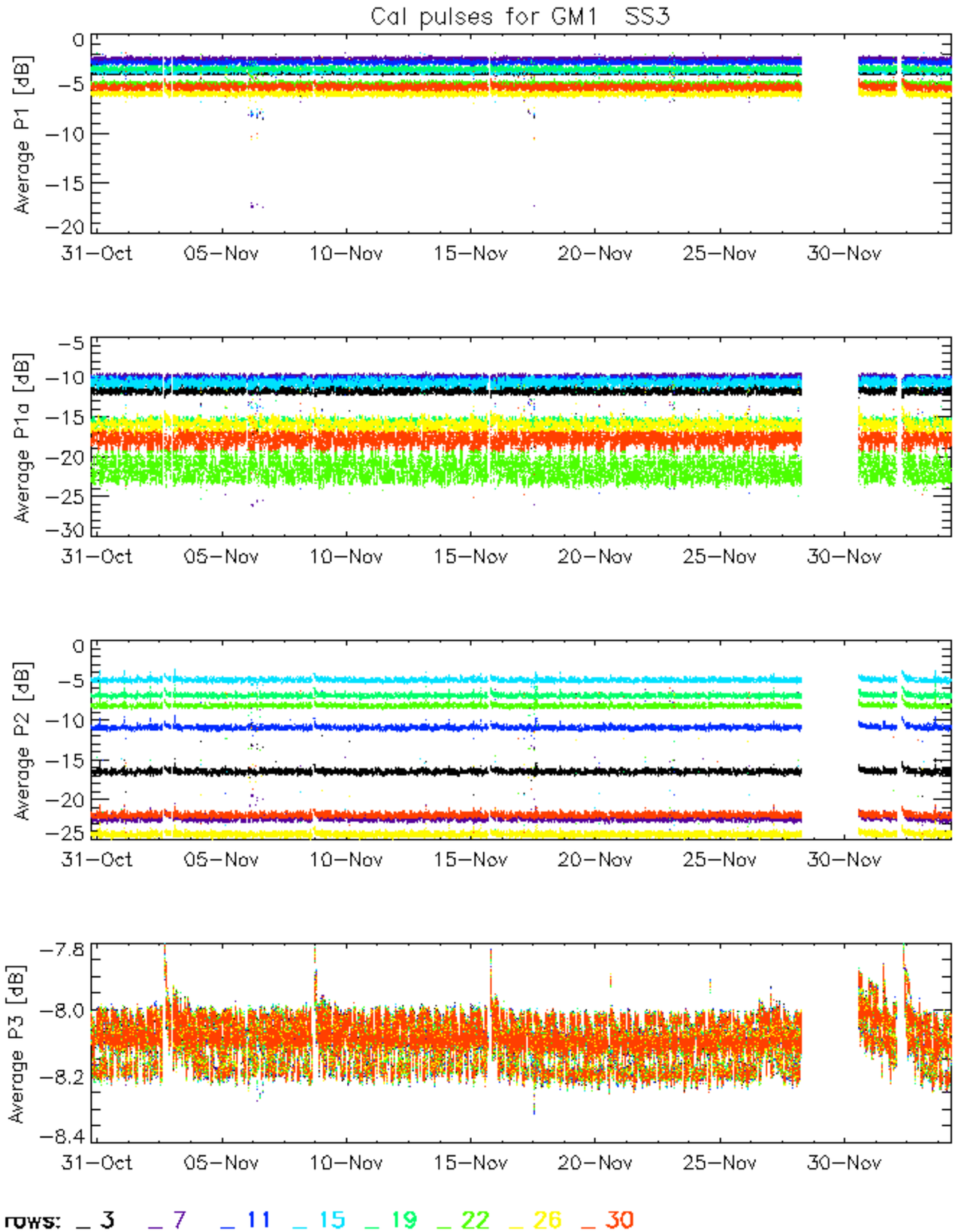
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

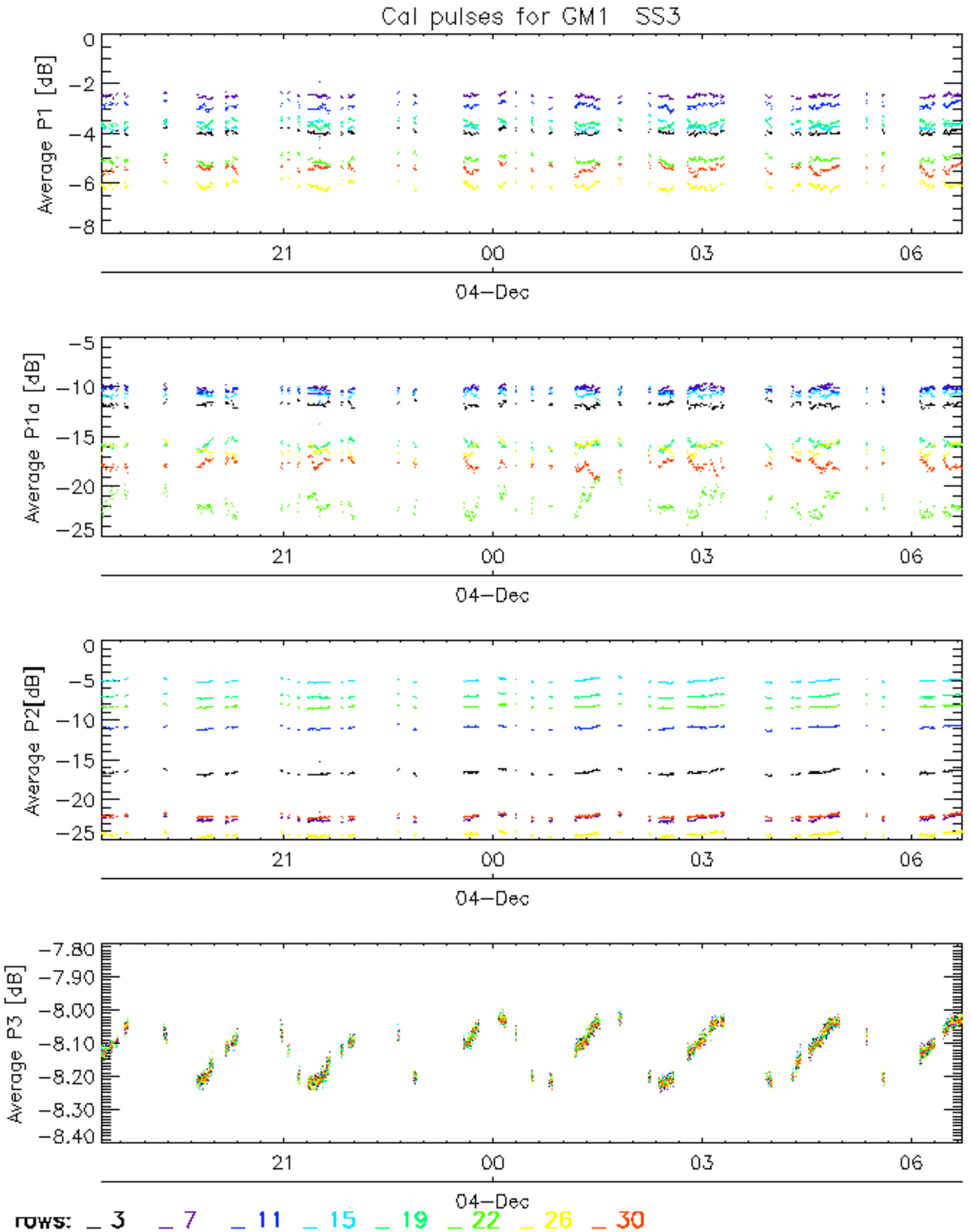
7.6 - Doppler evolution versus ANX for GM1

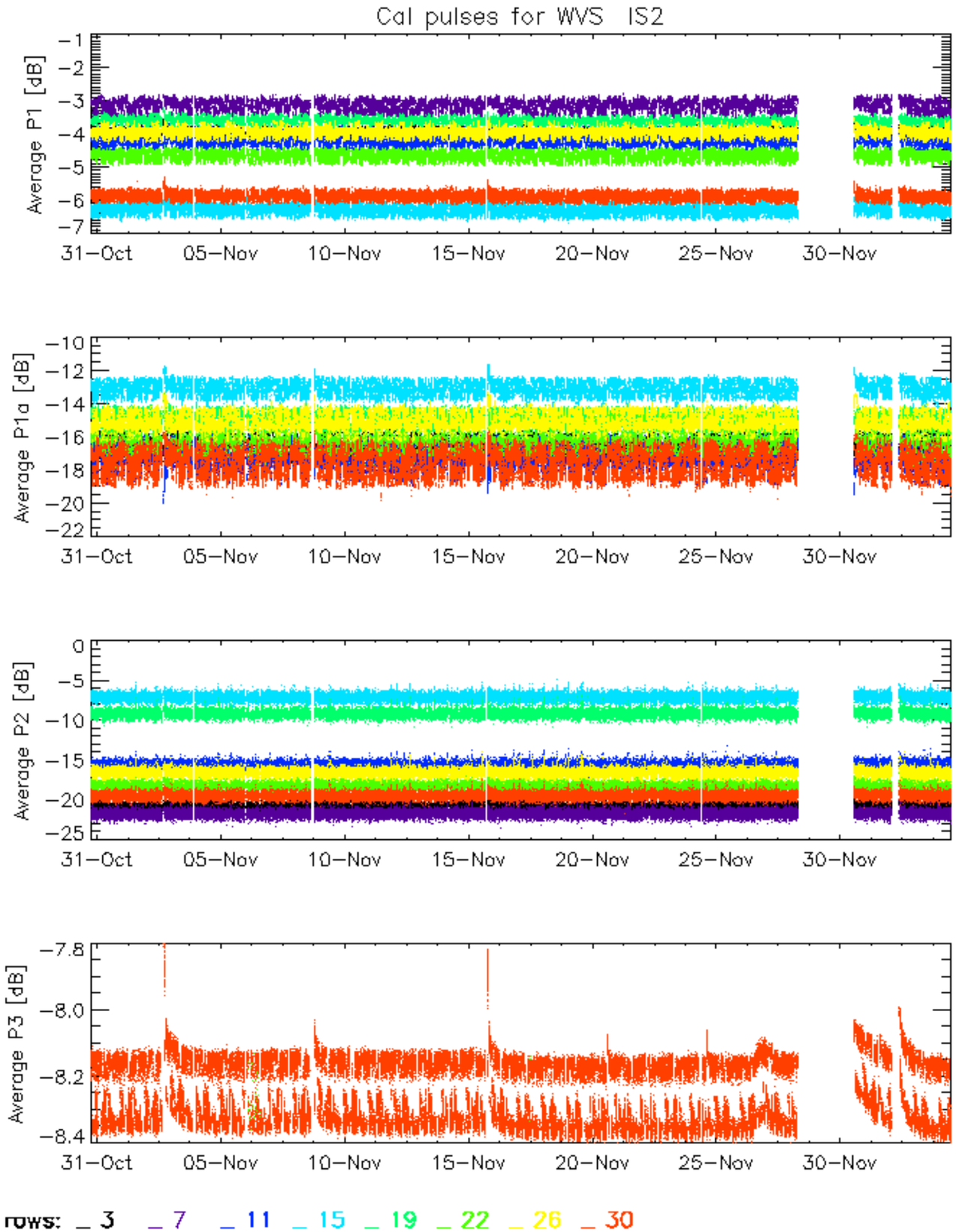
Evolution Doppler error versus ANX
☒

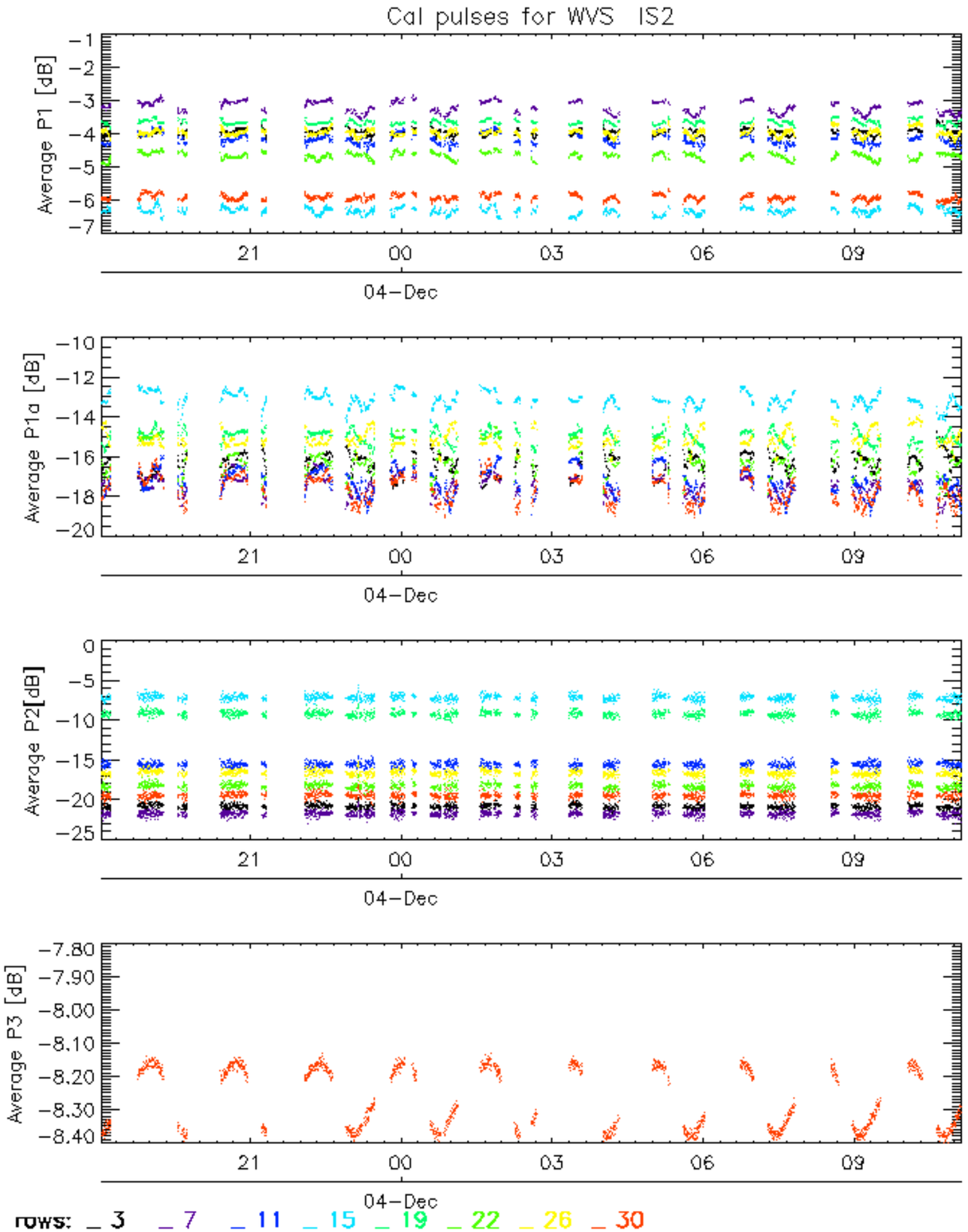

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
21
00
03
06
04−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
21
00
03
06
04−Dec
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
21
00
03
06
04−Dec
Phase P1a [deg]
200
100
0
−100
−200
21
00
03
06
04−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
21
00
03
06
09
04−Dec
Average P1a [dB]
−10
−12
−14
−16
−18
−20
21
00
03
06
09
04−Dec
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
21
00
03
06
09
04−Dec
Phase P1a [deg]
200
100
0
−100
−200
21
00
03
06
09
04−Dec
rows: 3 7 11 15 19 22 26 30

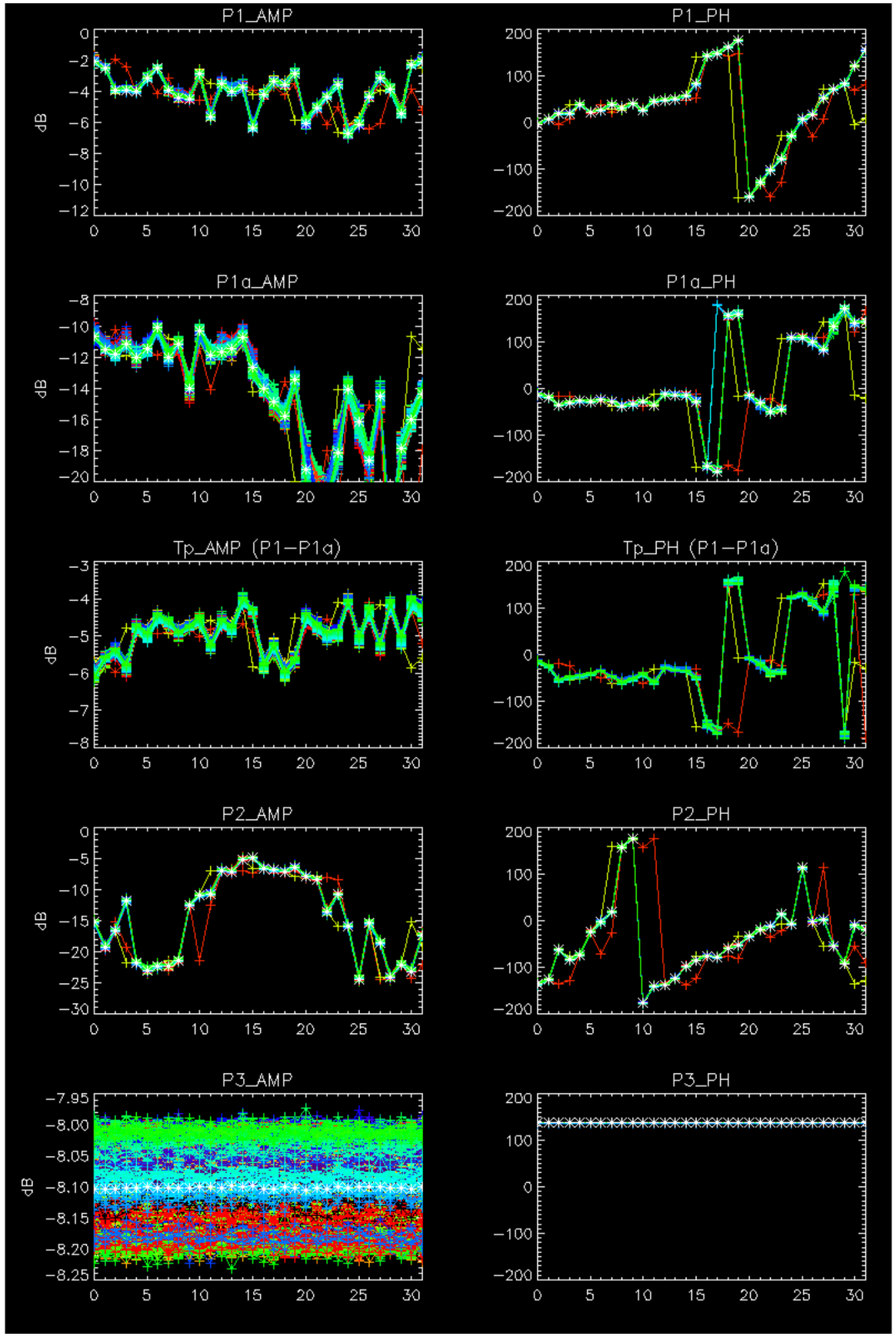

Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30

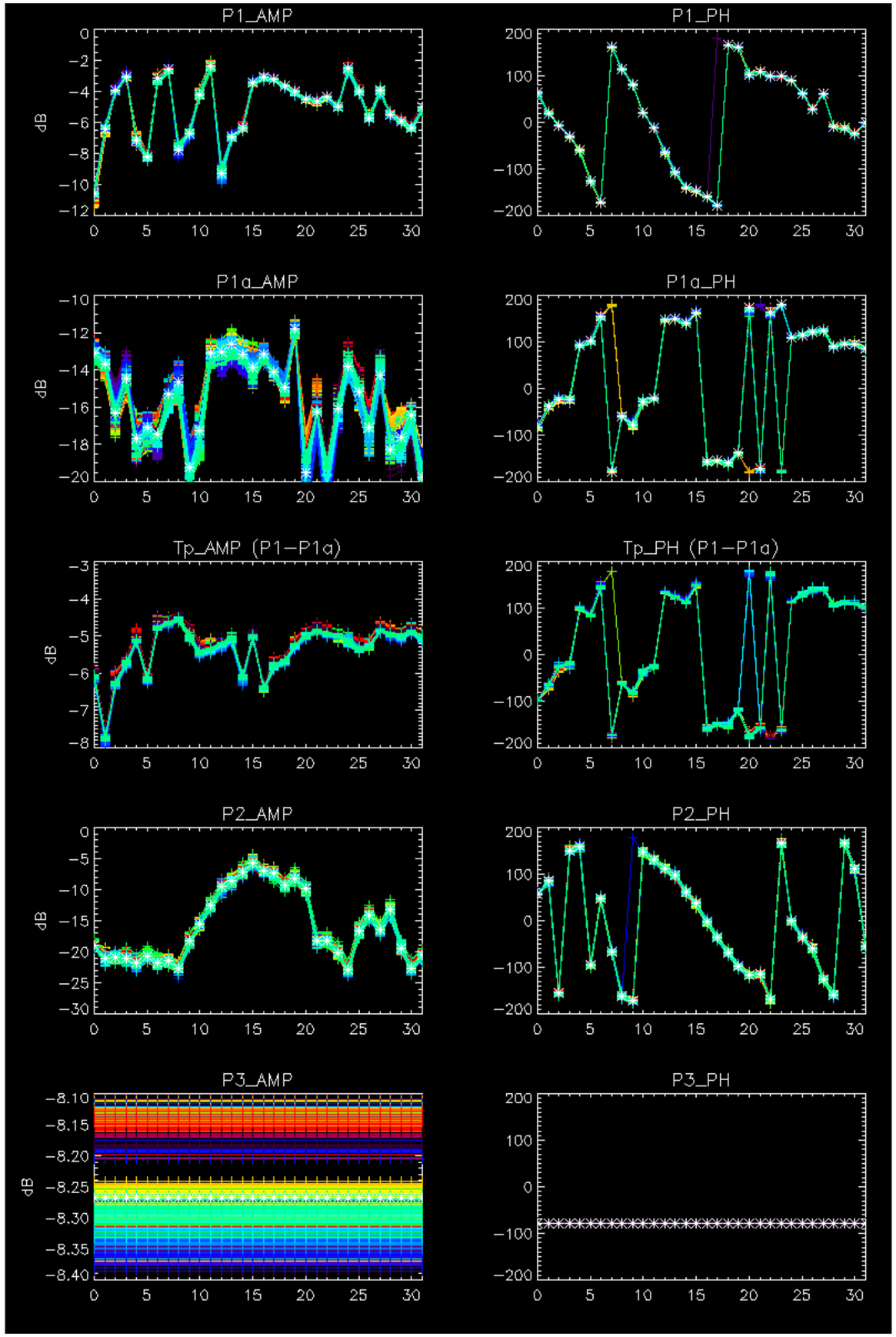

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
21
00
03
06
04−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
21
00
03
06
04−Dec
Average P2[dB]
0
−5
−10
−15
−20
−25
21
00
03
06
04−Dec
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
21
00
03
06
04−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov
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
21
00
03
06
09
04−Dec
Average P1a [dB]
−10
−12
−14
−16
−18
−20
21
00
03
06
09
04−Dec
Average P2[dB]
0
−5
−10
−15
−20
−25
21
00
03
06
09
04−Dec
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
21
00
03
06
09
04−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

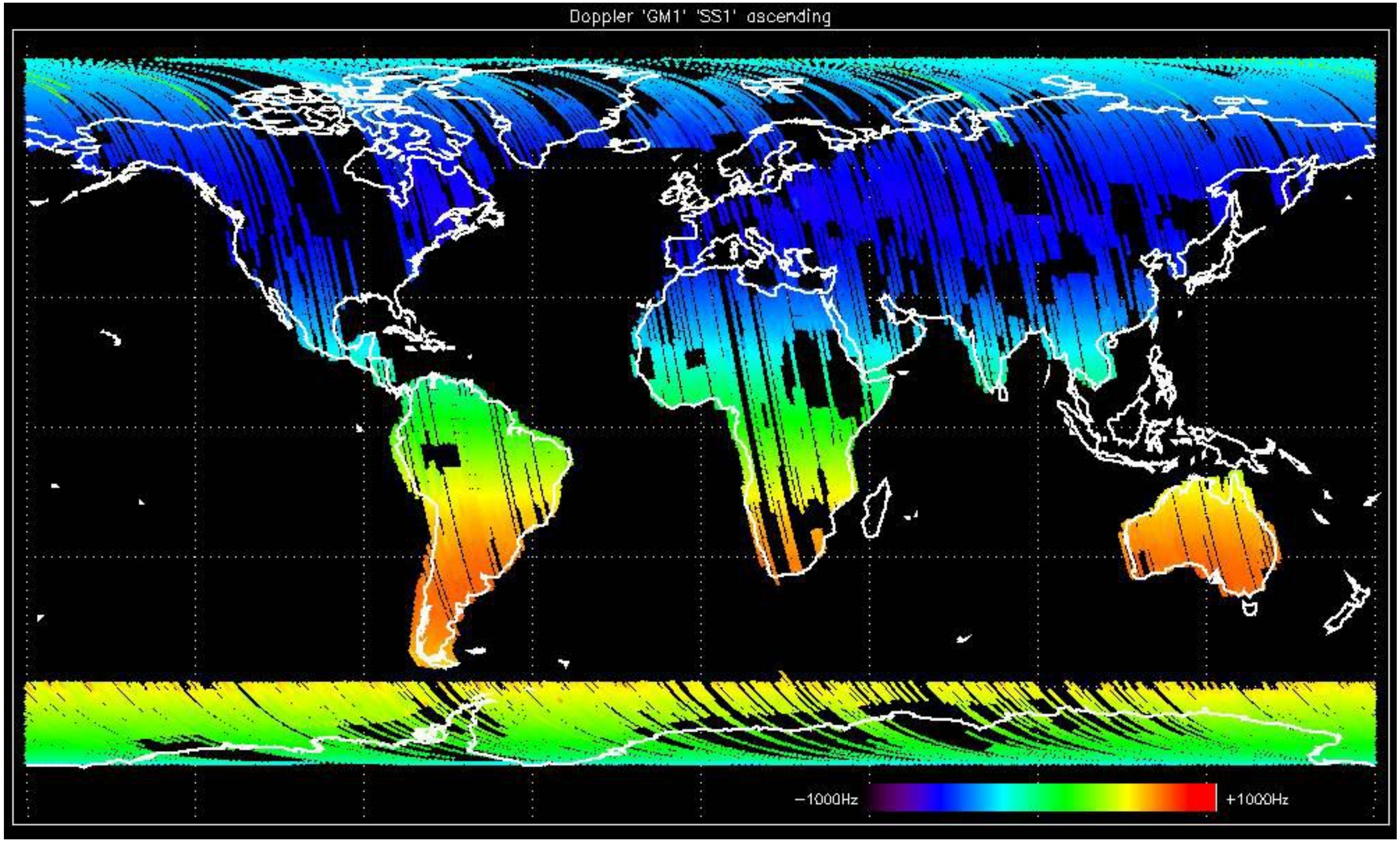
No anomalies observed.

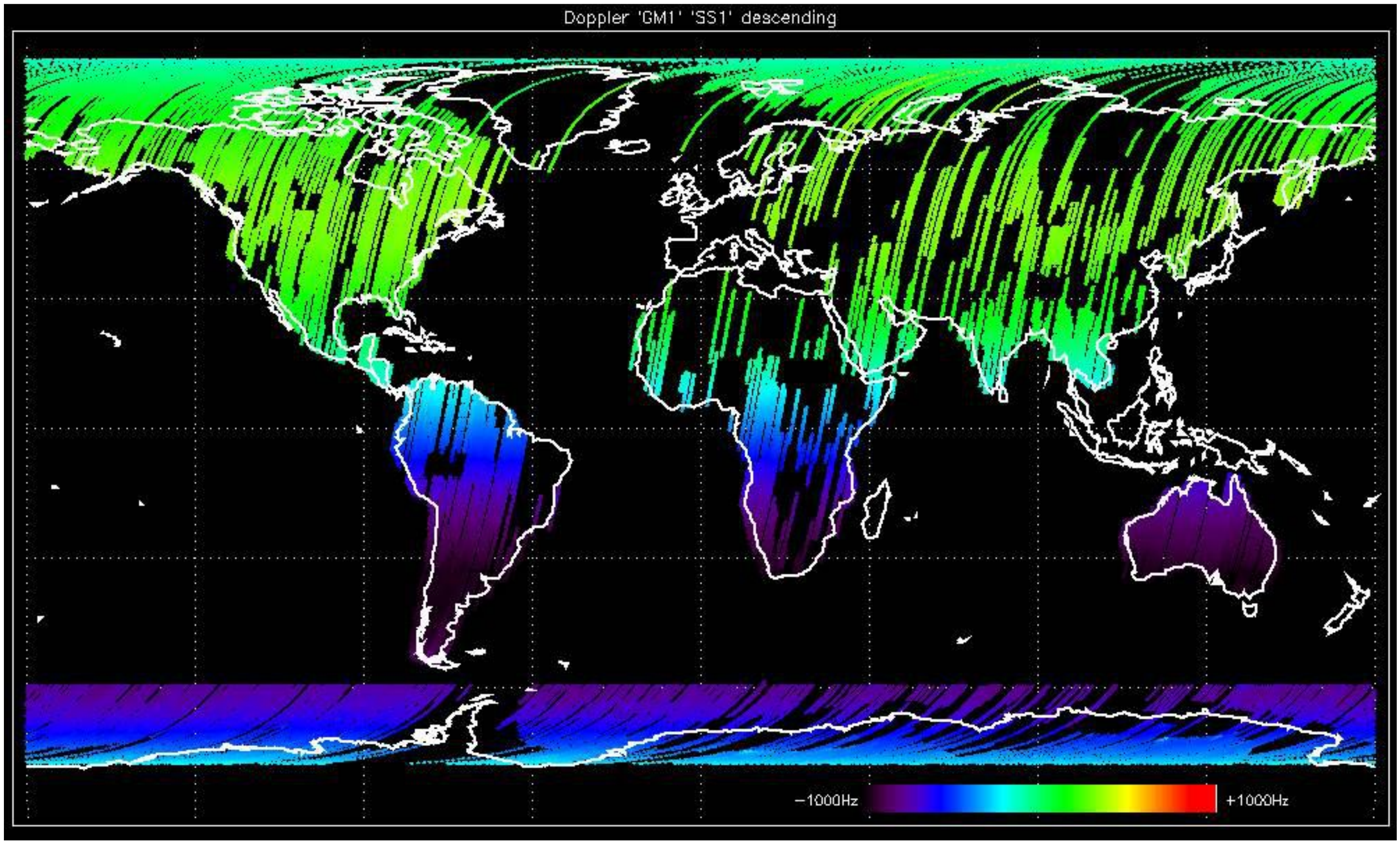

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

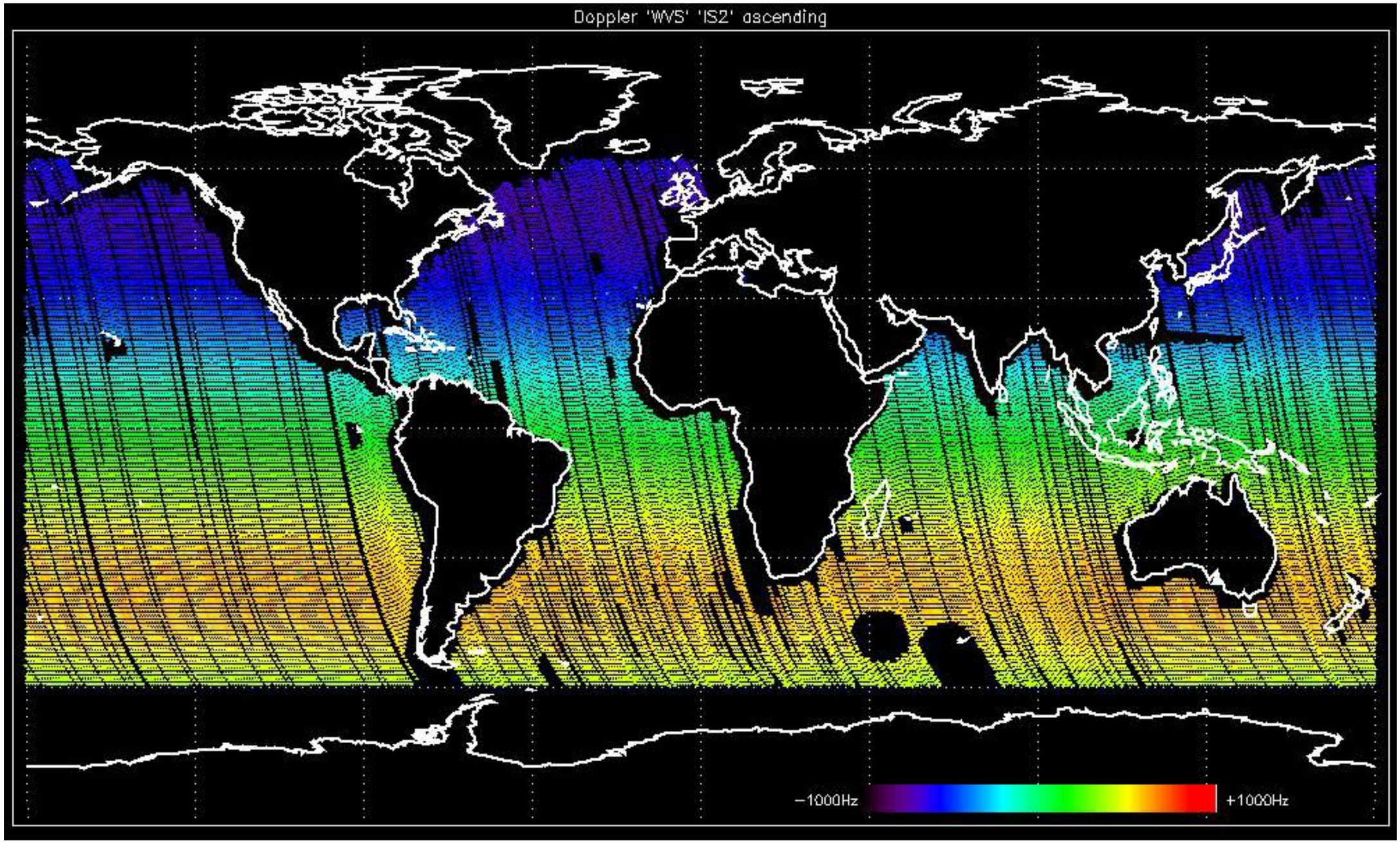

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

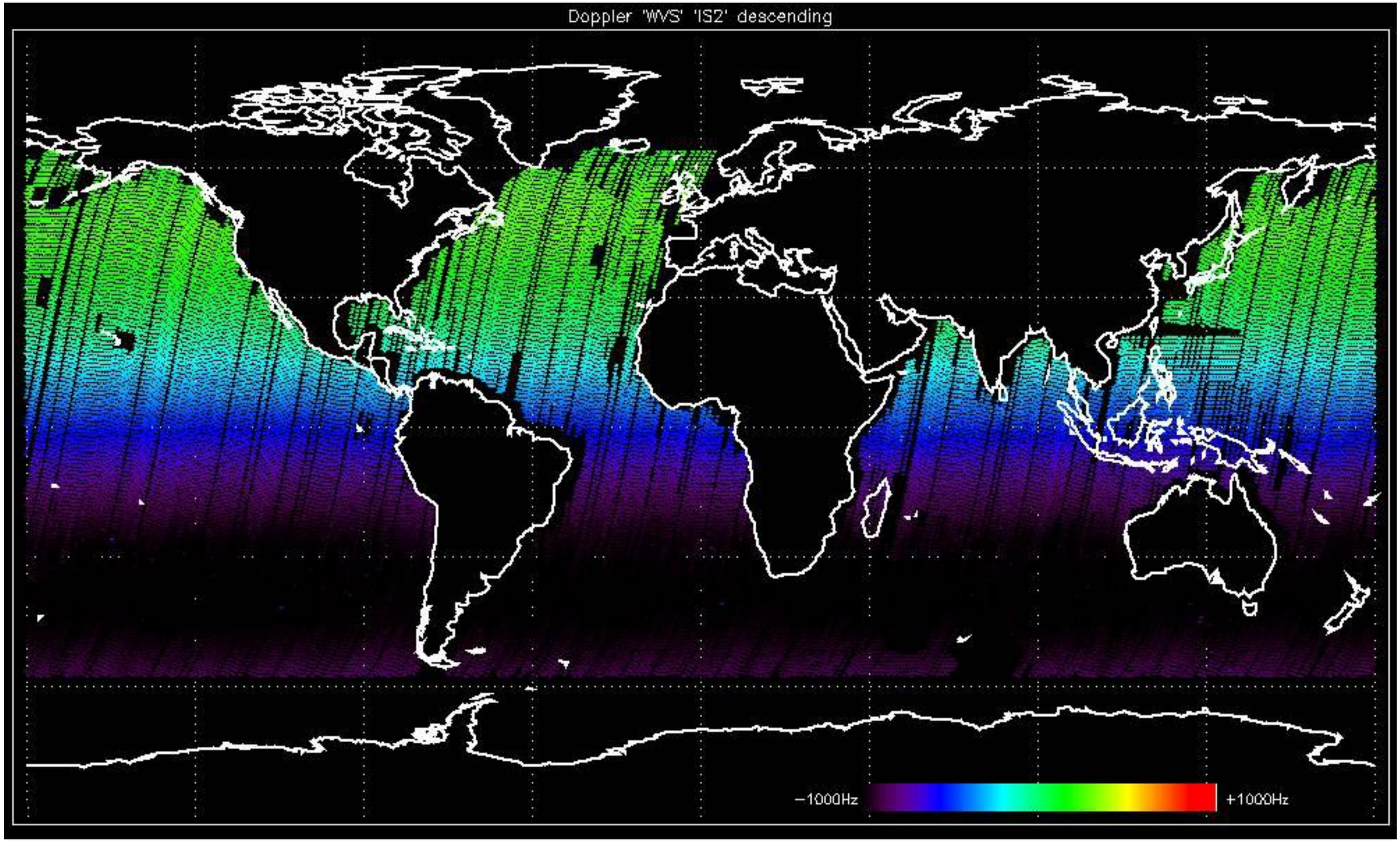
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

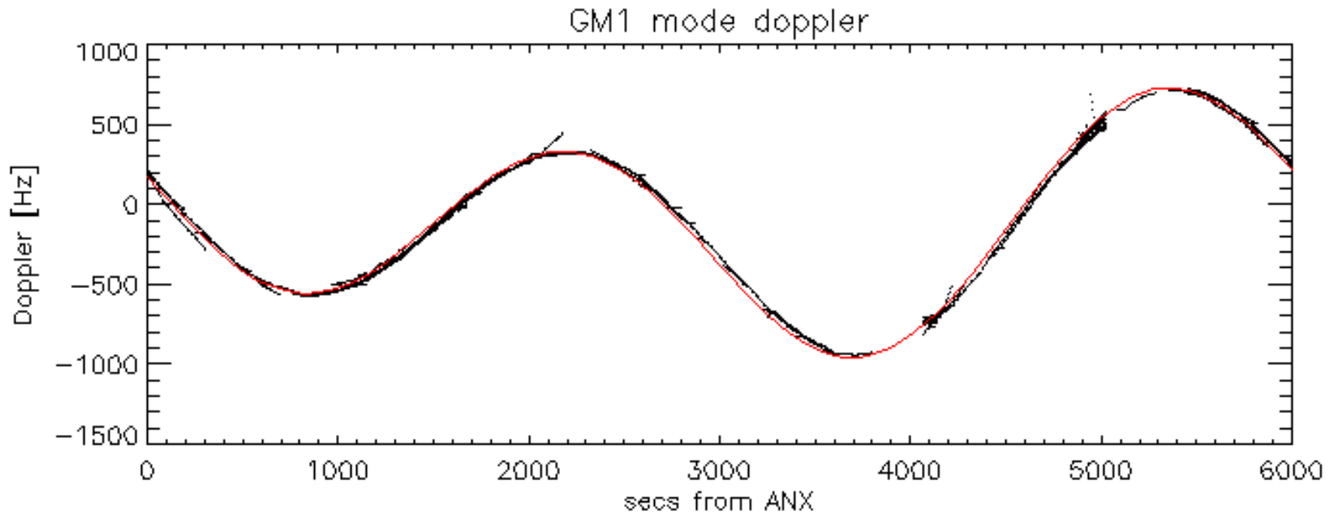
Preliminary report.The data is not yet controled

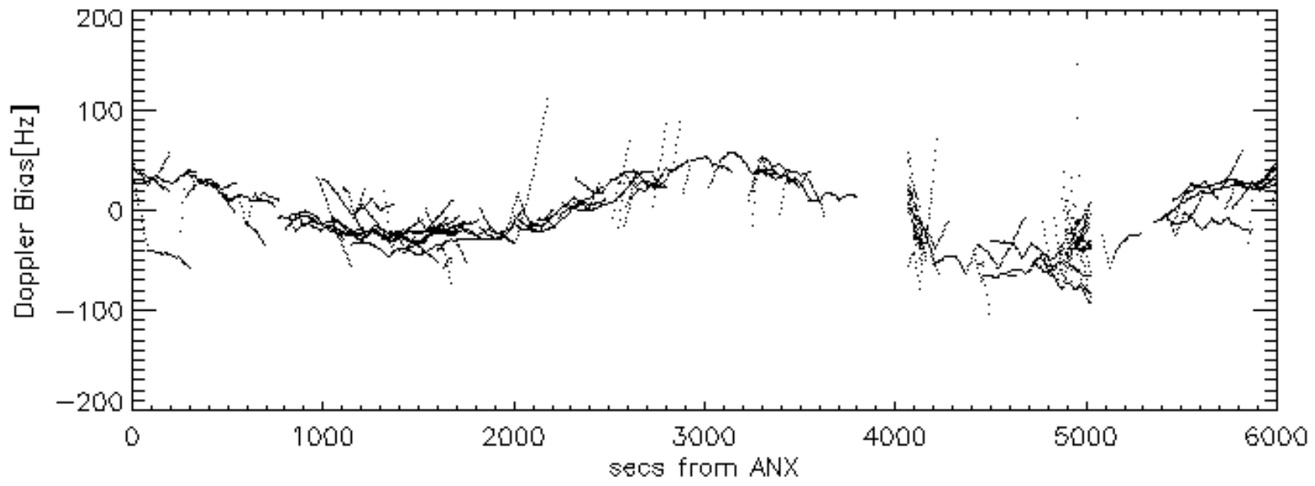

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

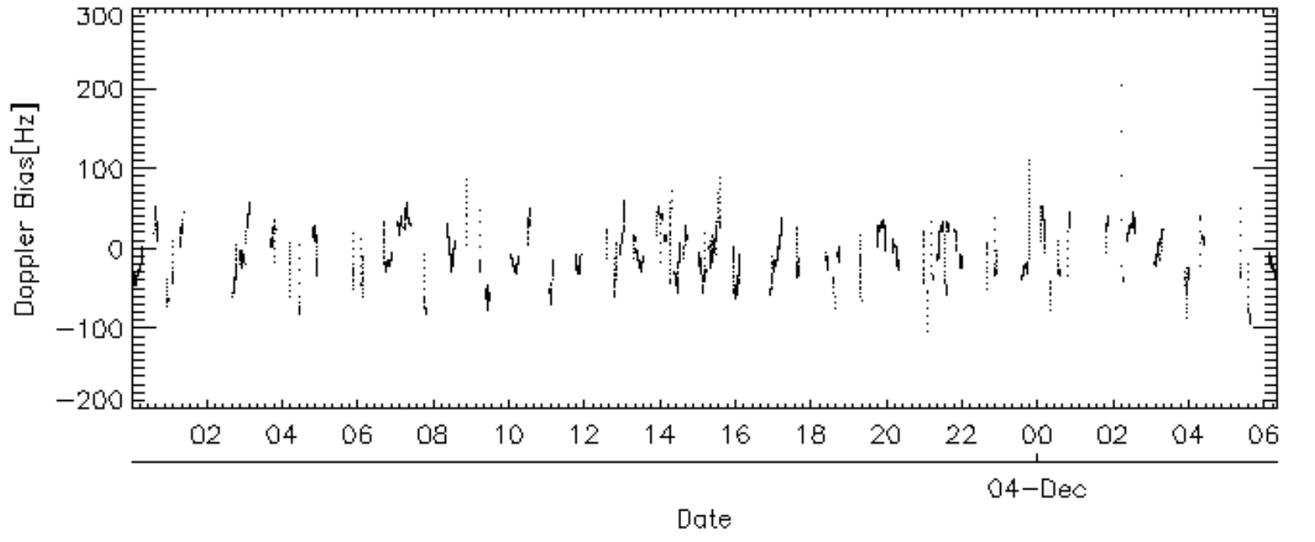

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

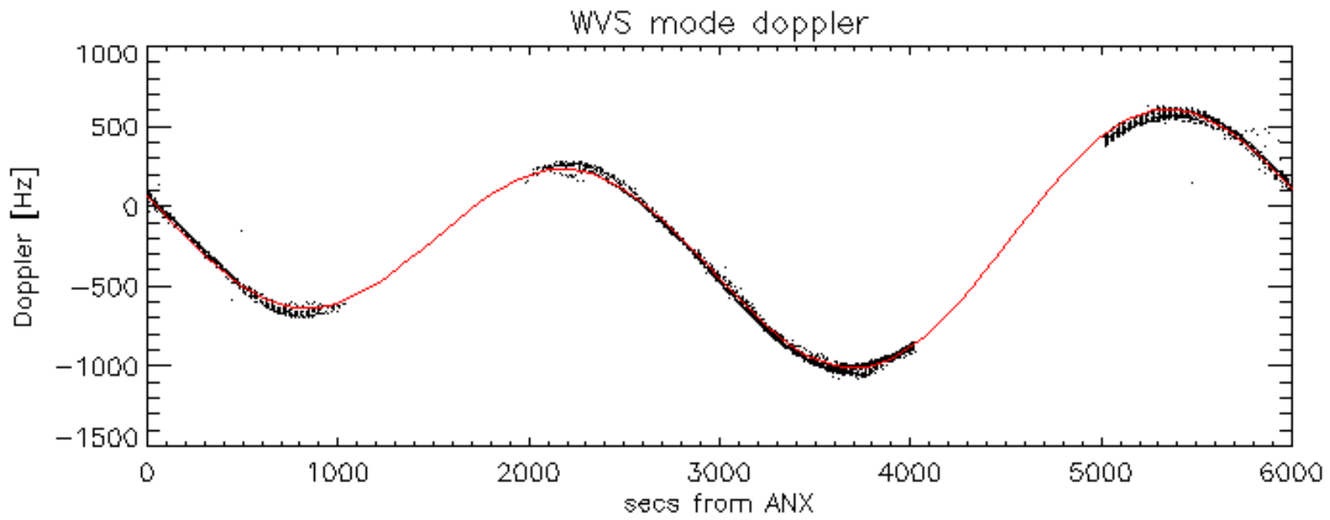

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

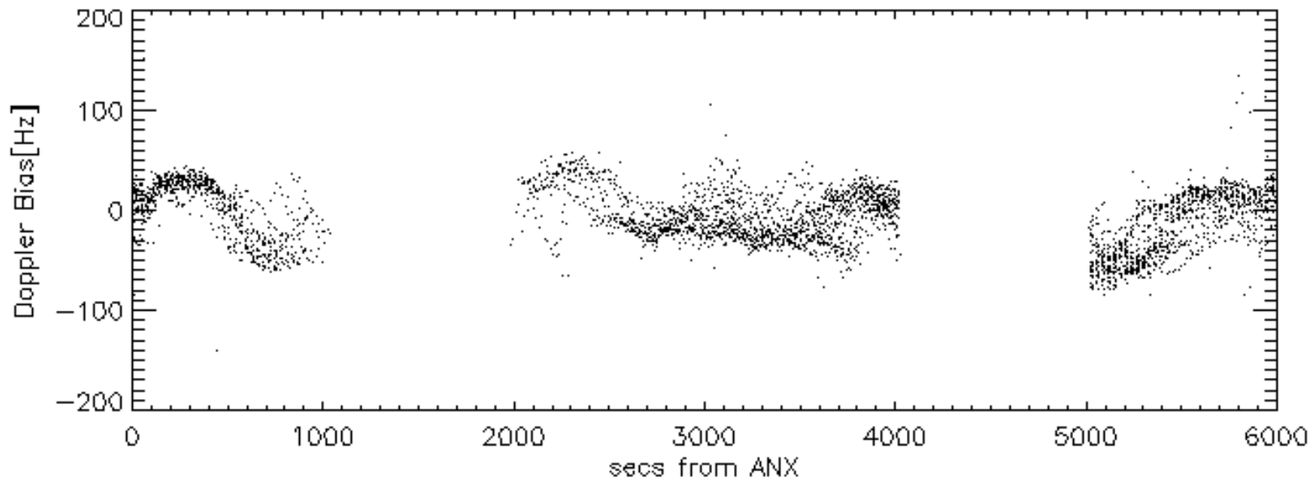

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

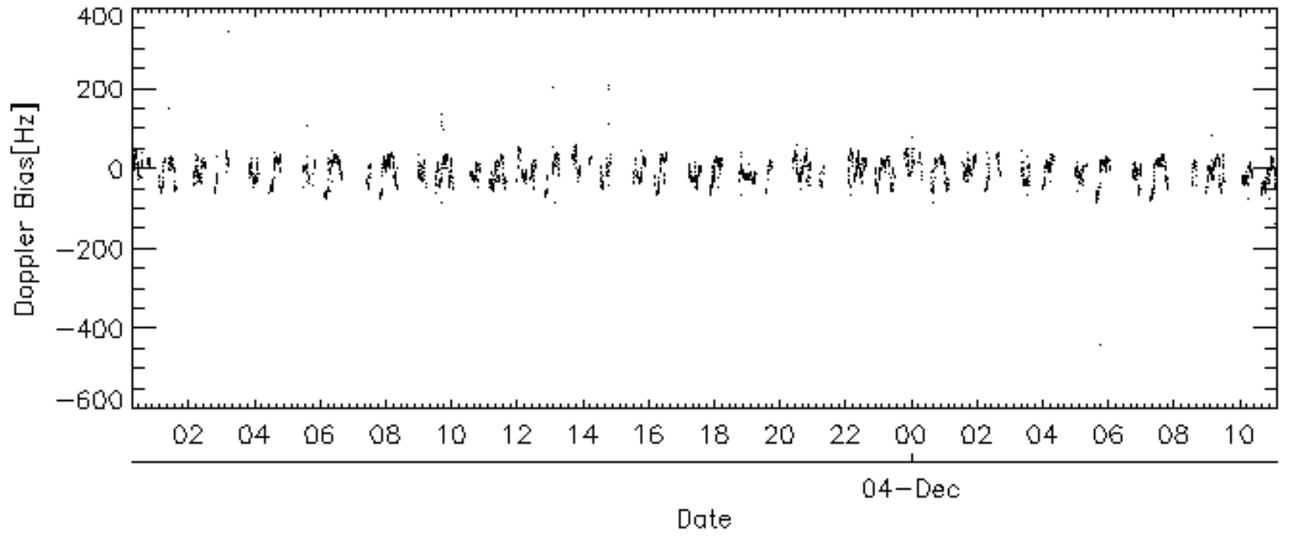

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

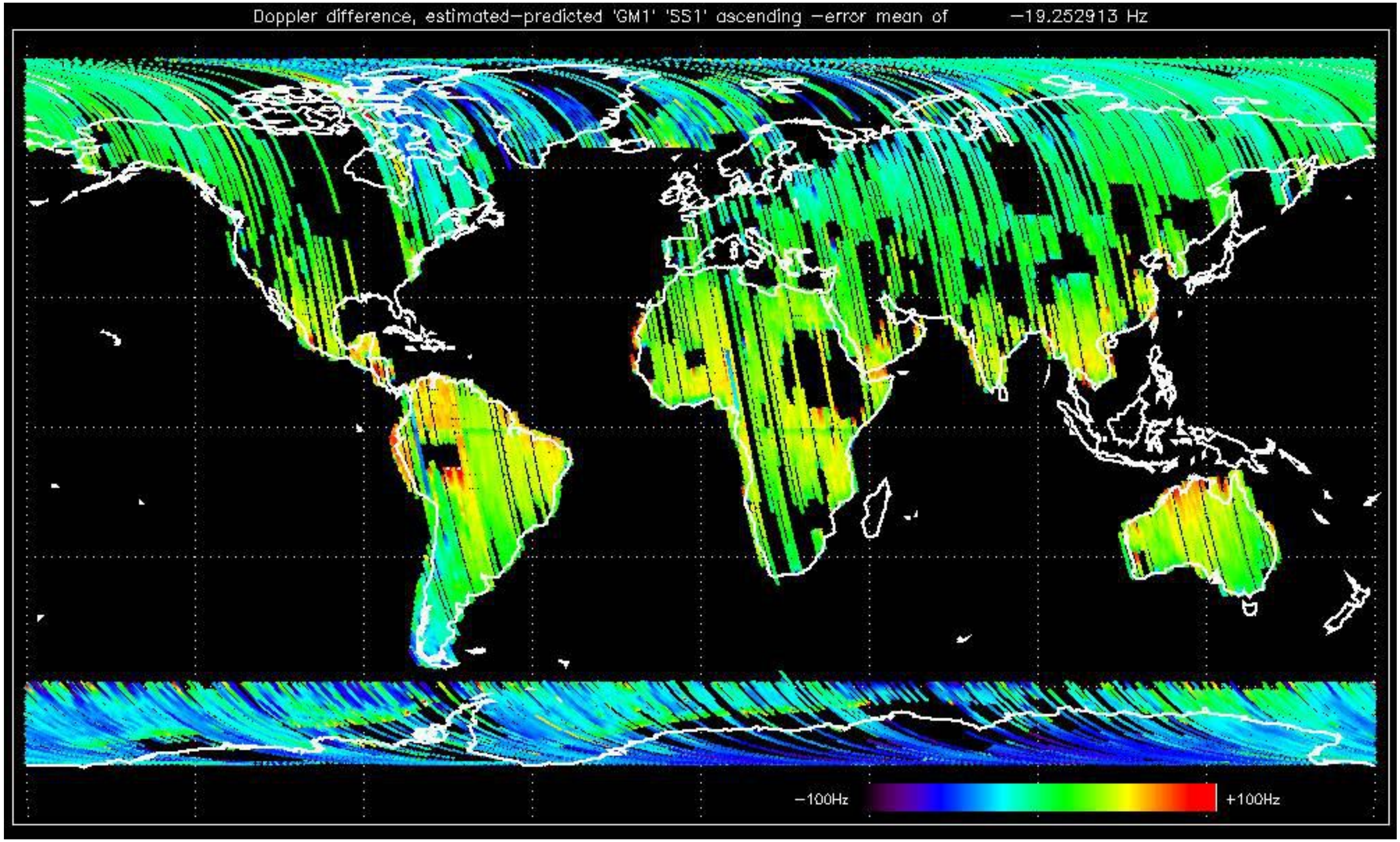

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

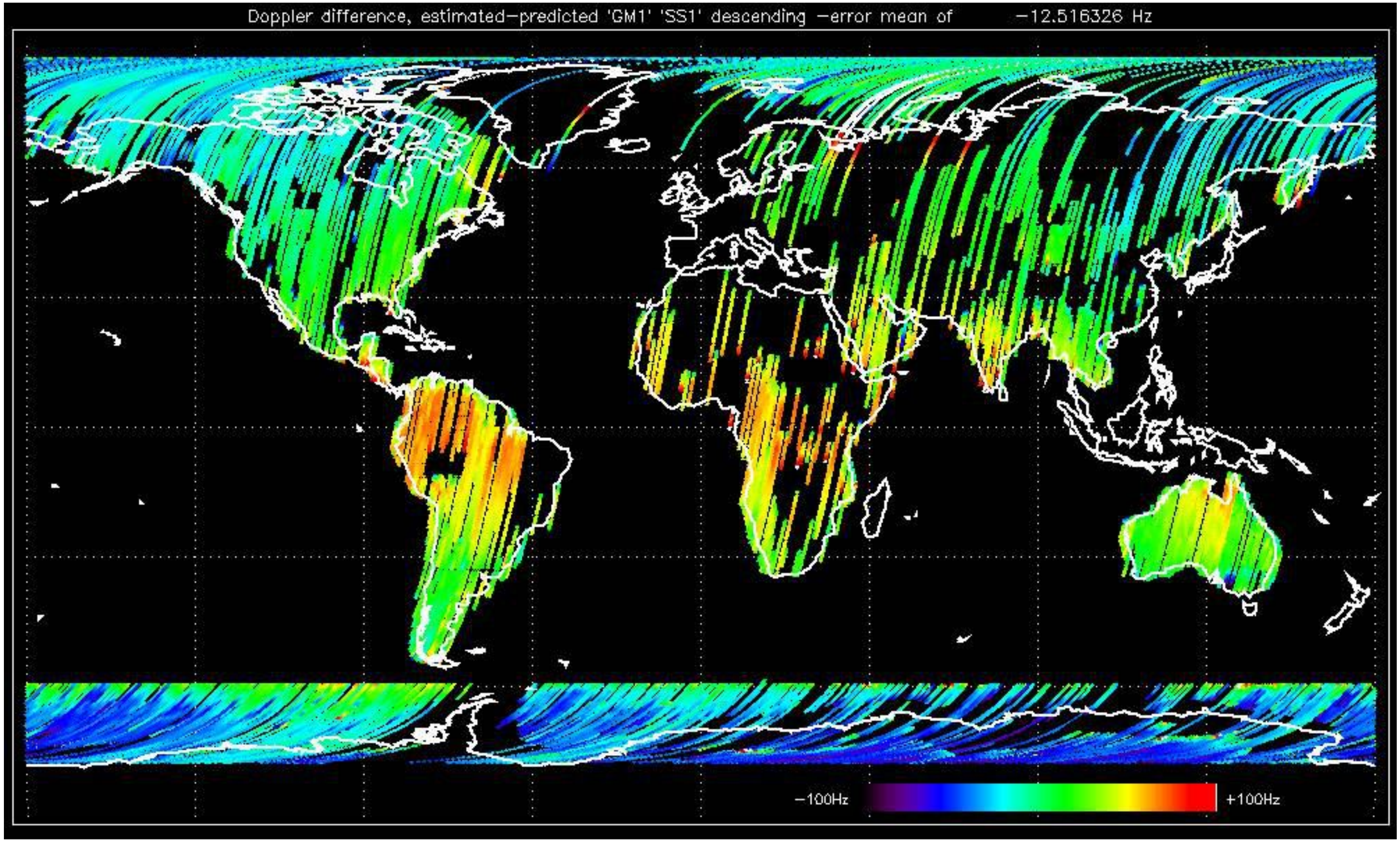

Doppler Bias[Hz]
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
04−Dec
Date

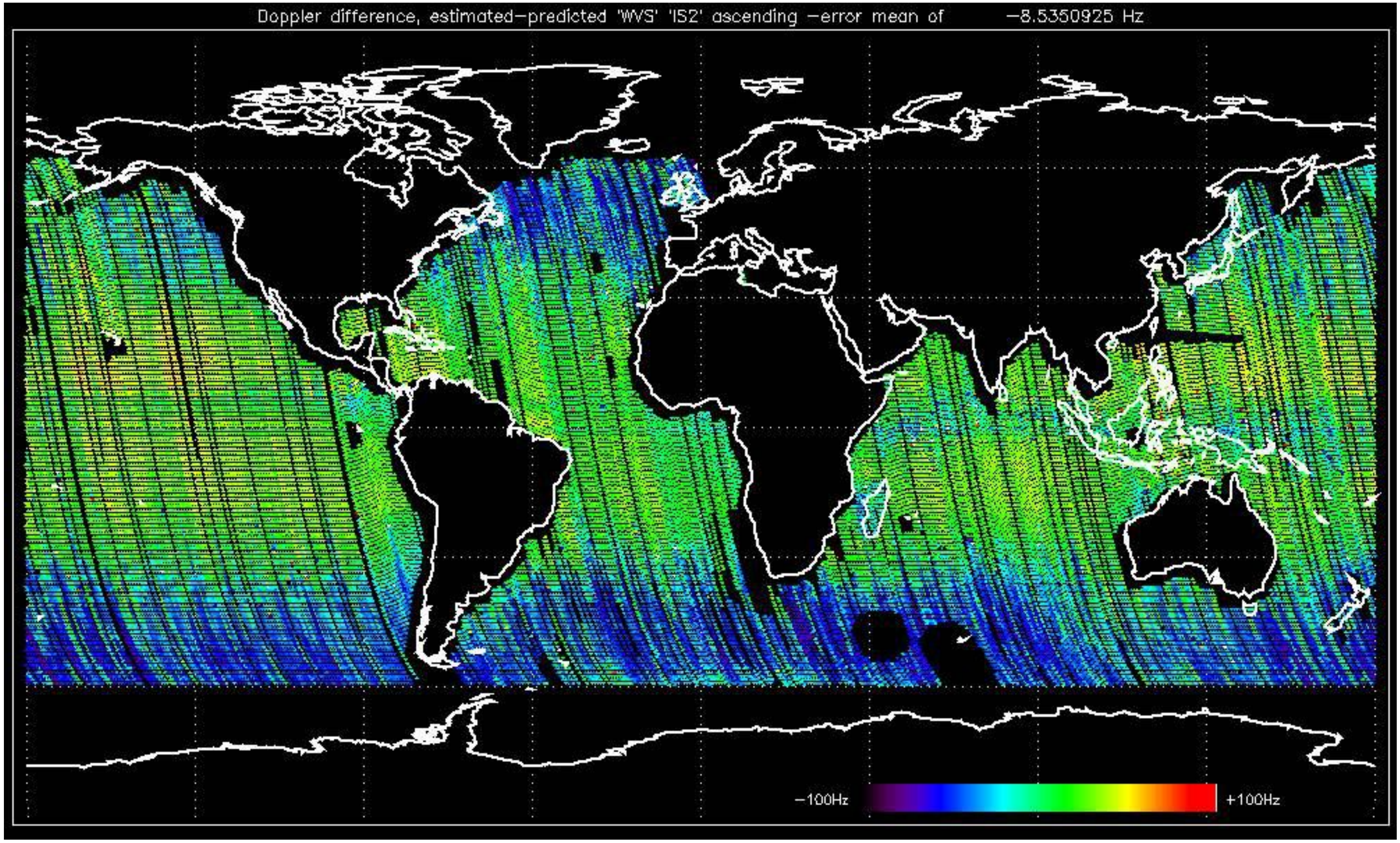

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

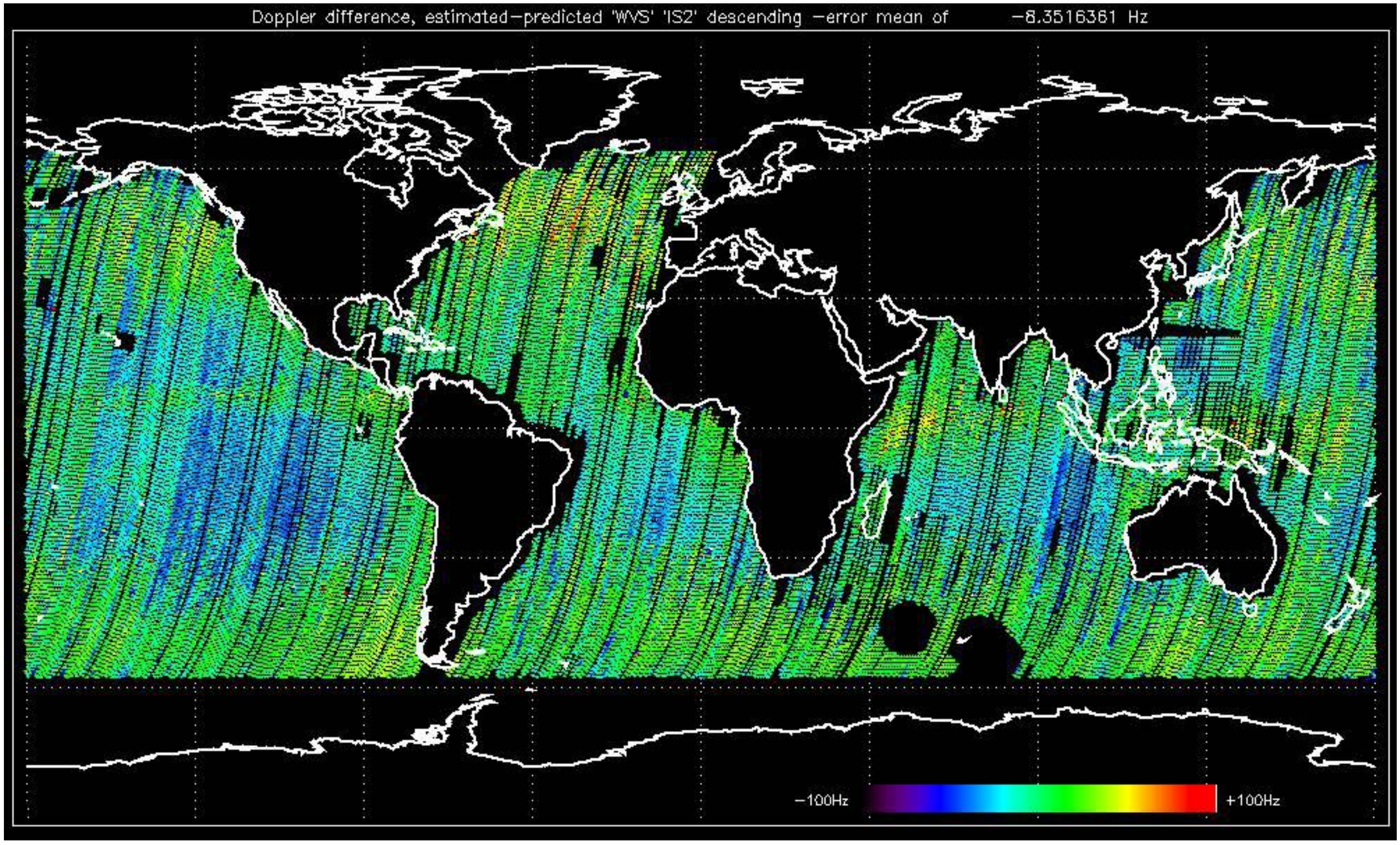

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


Doppler Bias[Hz]
400
200
0
−200
−400
−600
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08
10
04−Dec
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −19.252913 Hz
−100Hz
+100Hz

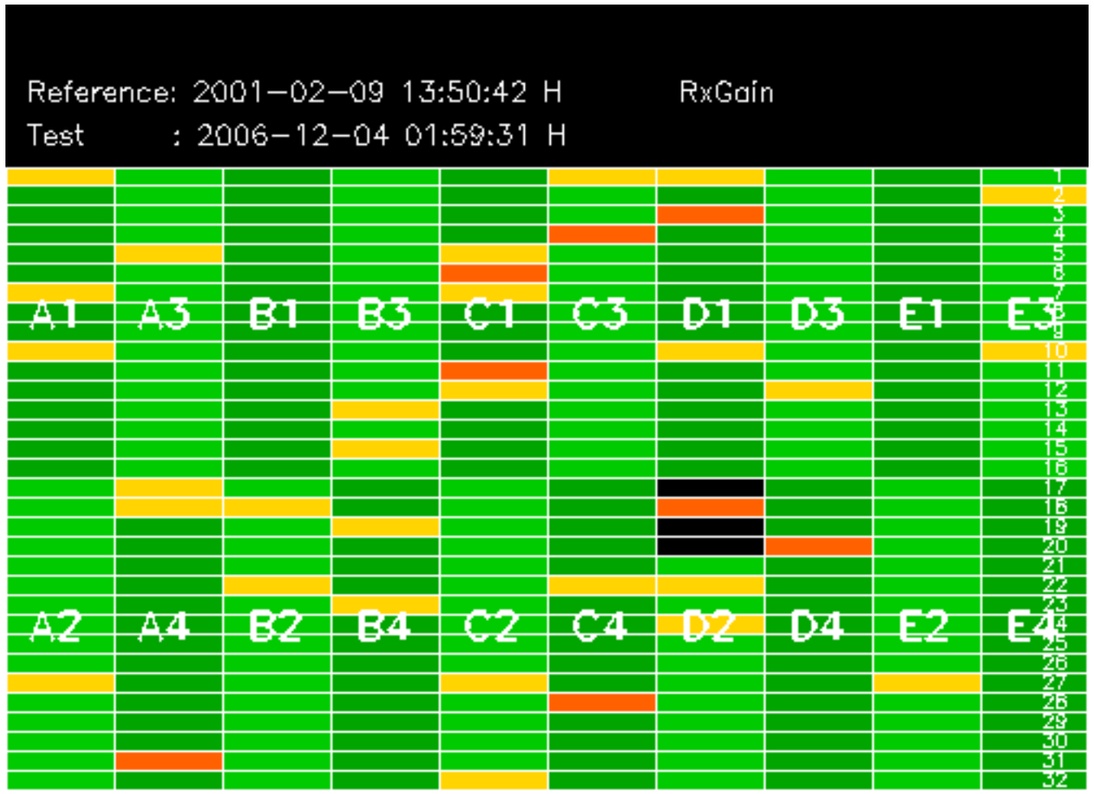

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −12.516326 Hz
−100Hz
+100Hz

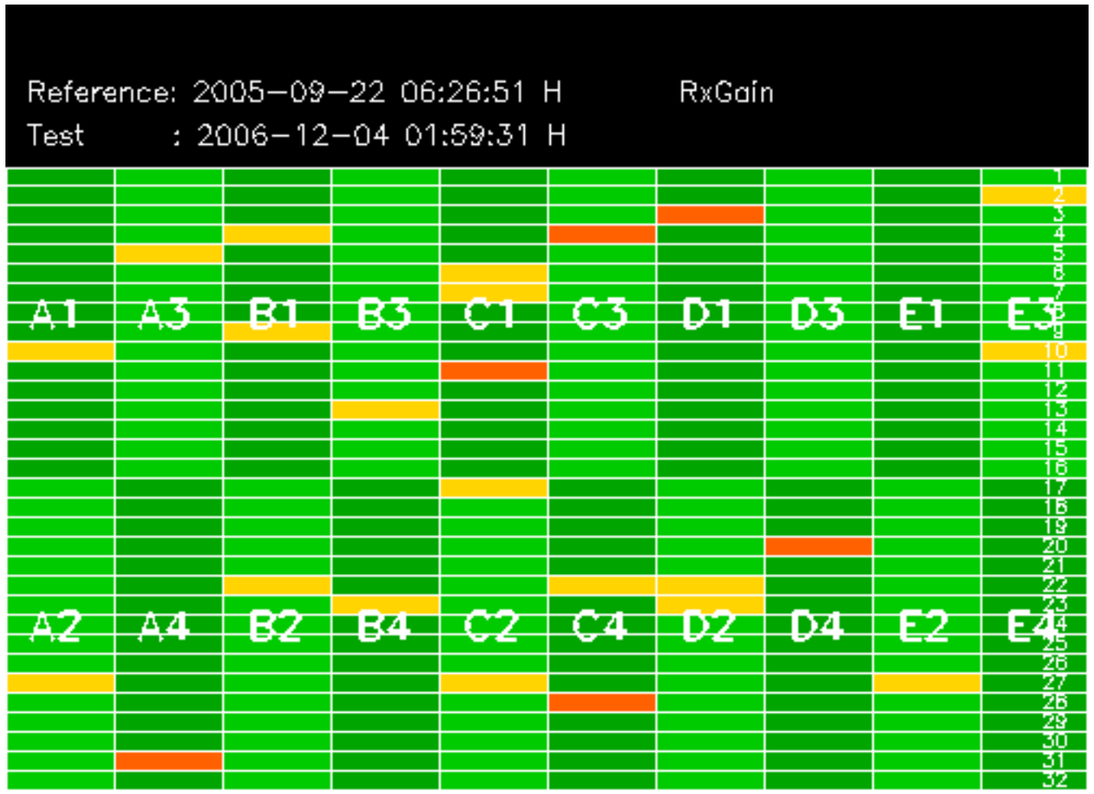

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −8.5350925 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −8.3516361 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-12-04 01:59:31 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 : 2006-12-04 01:59:31 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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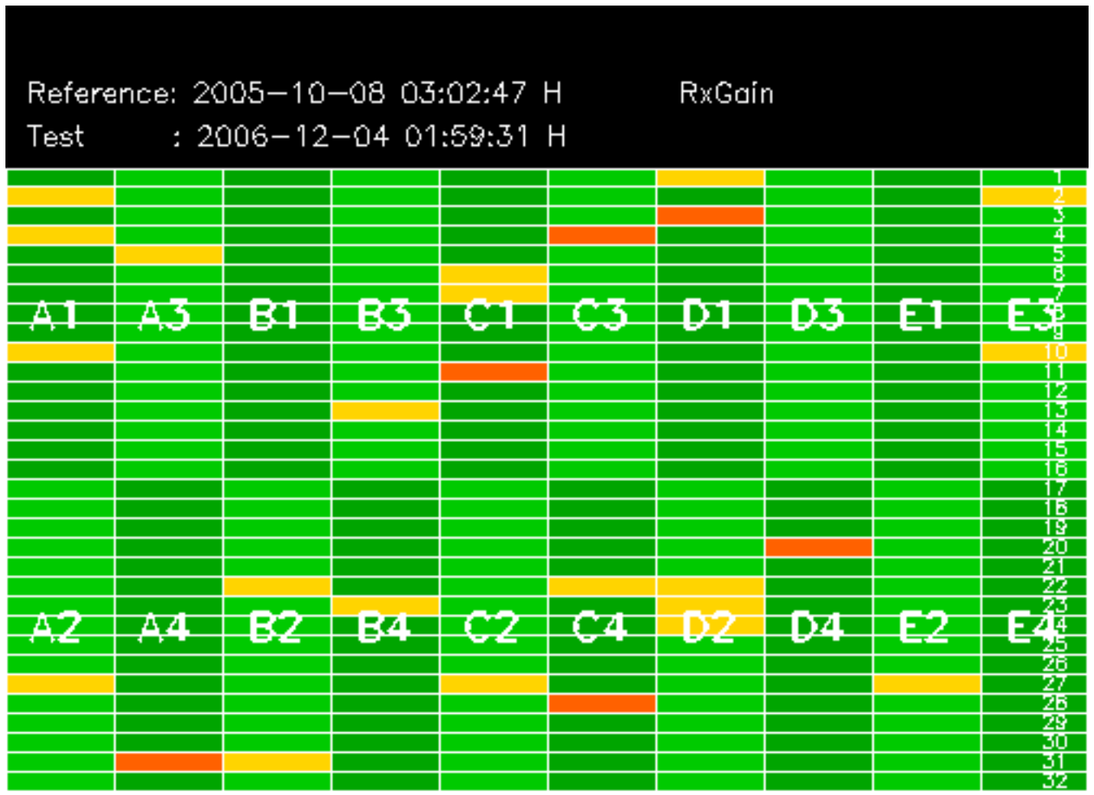
Reference: 2005-10-08 03:02:47 H
Test : 2006-12-04 01:59:31 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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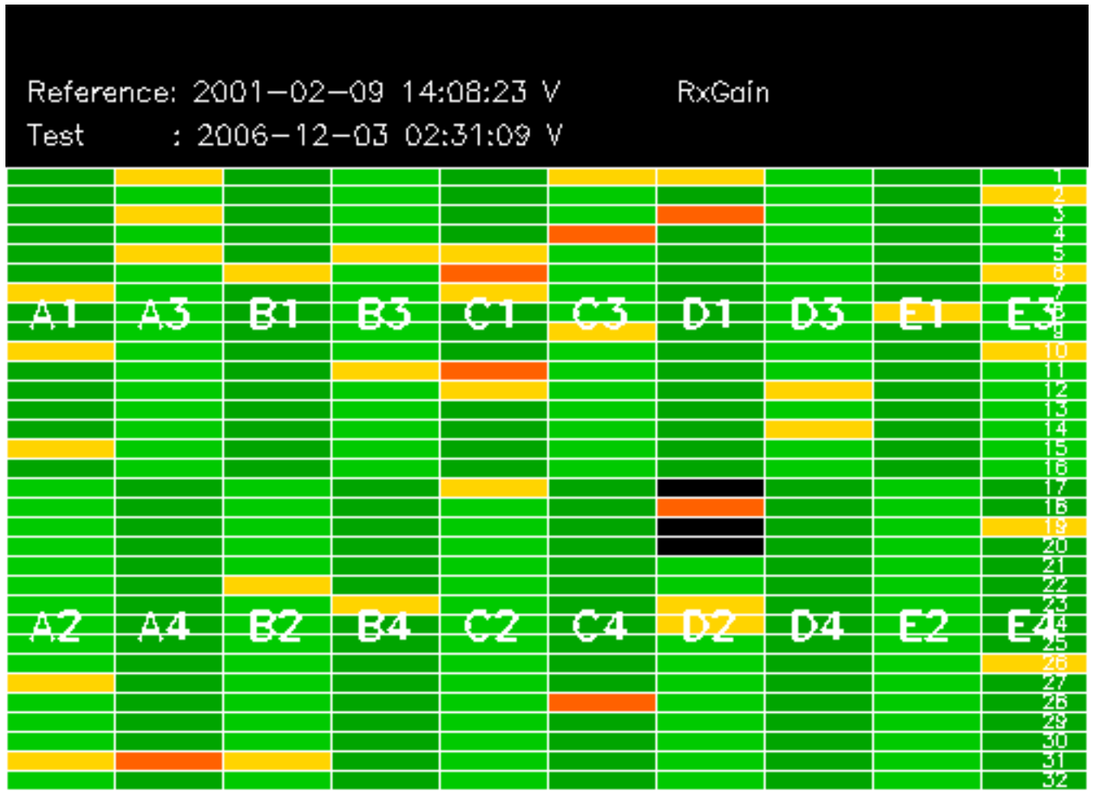
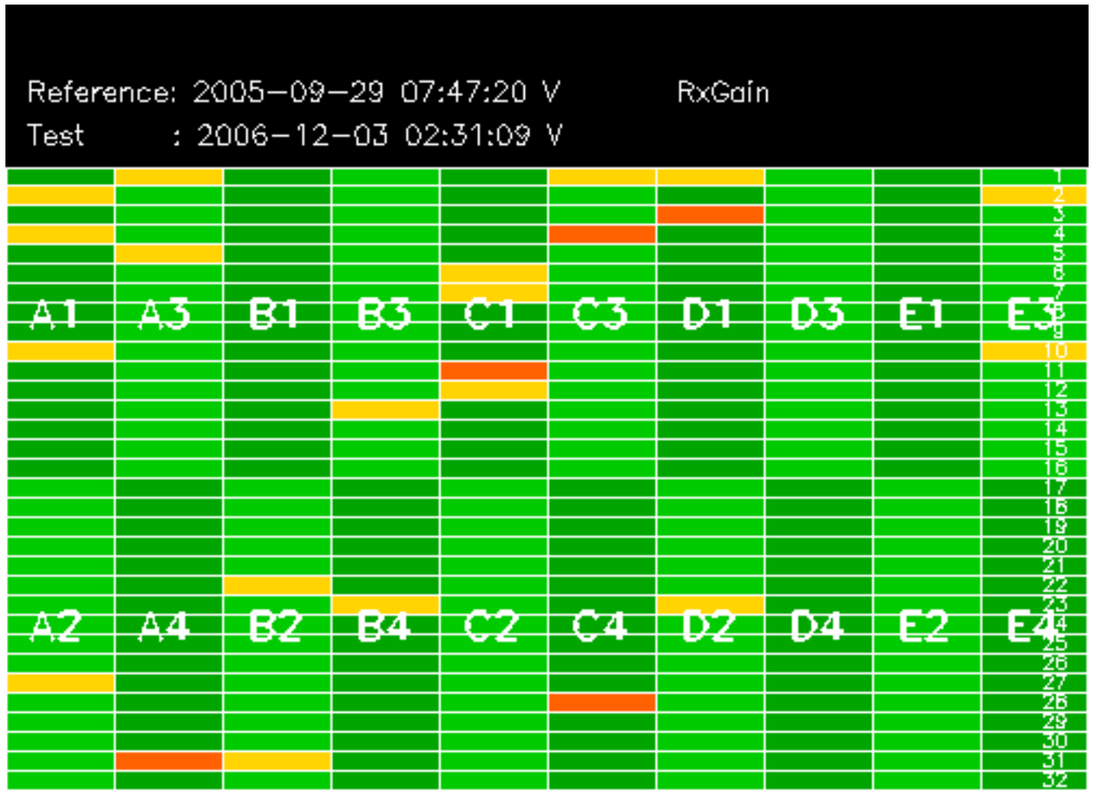

Reference: 2001-02-09 14:08:23 V
Test : 2006-12-03 02:31:09 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-12-03 02:31:09 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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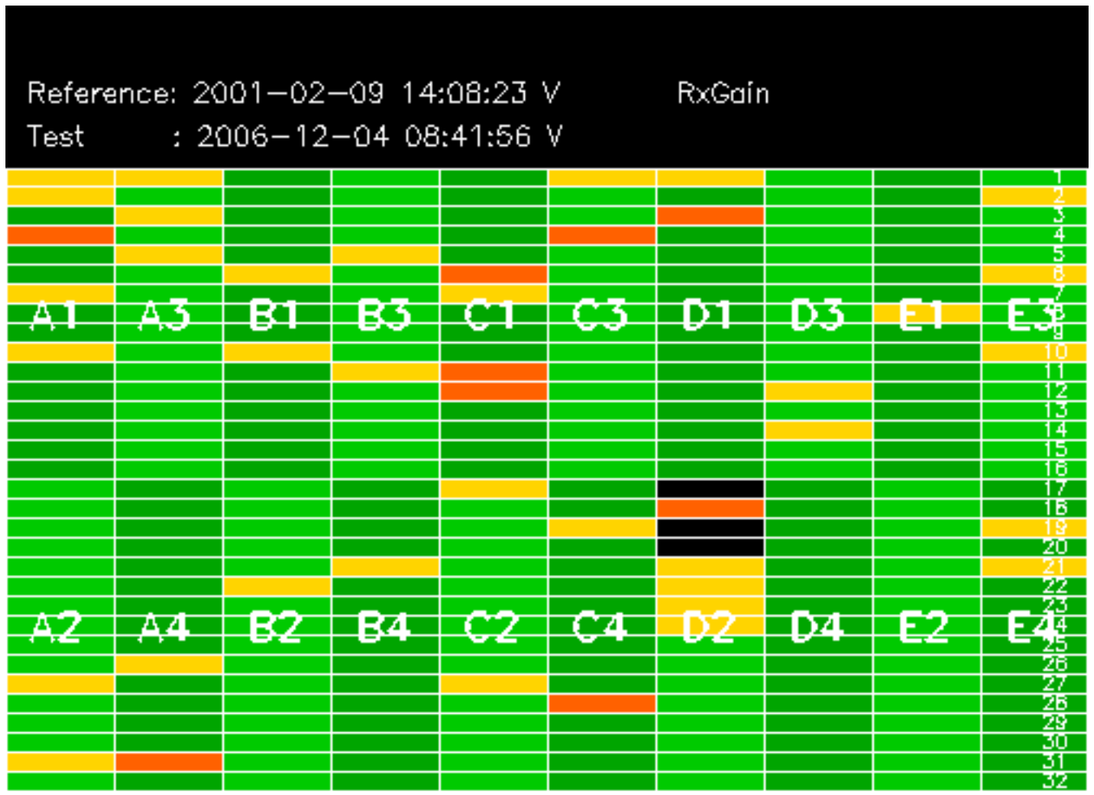
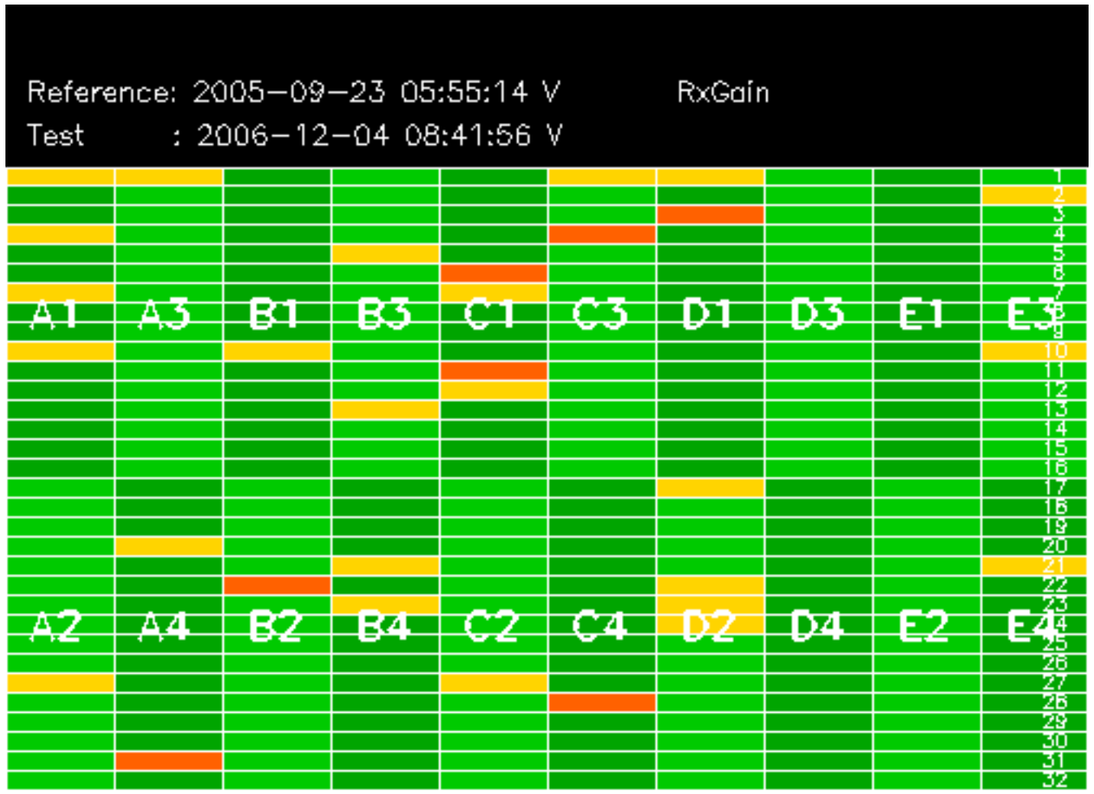

Reference: 2001-02-09 14:08:23 V
Test : 2006-12-04 08:41:56 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2006-12-04 08:41:56 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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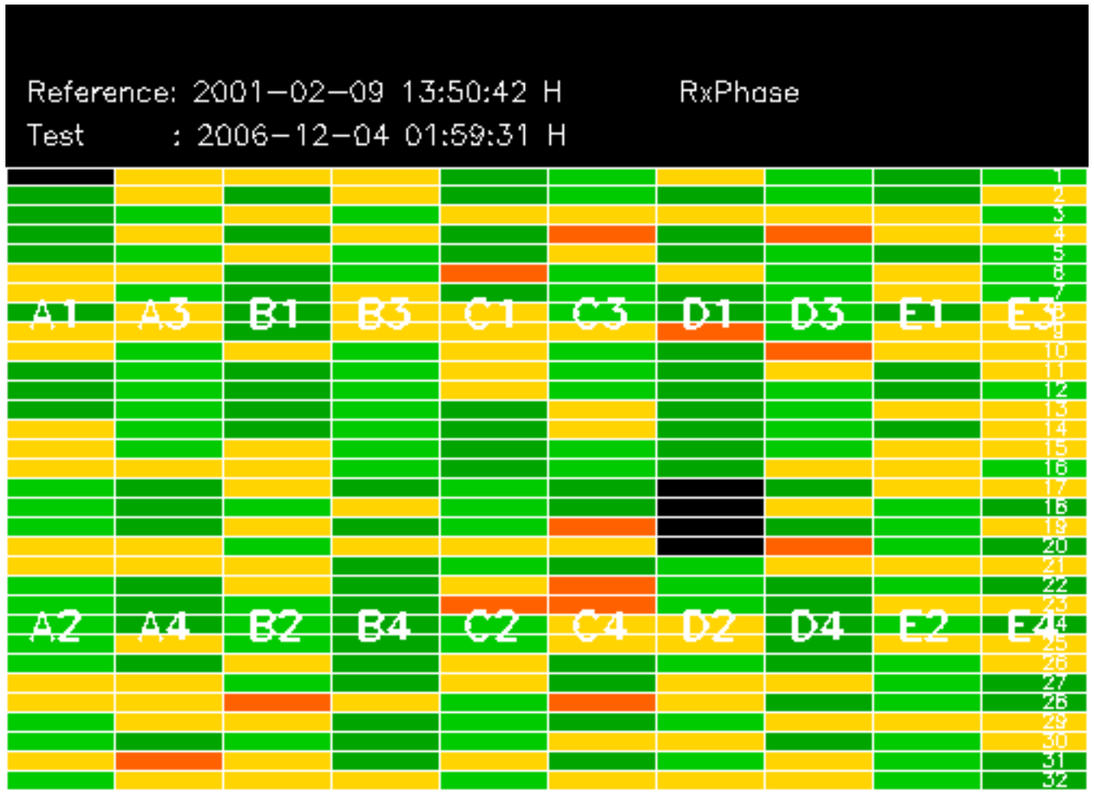
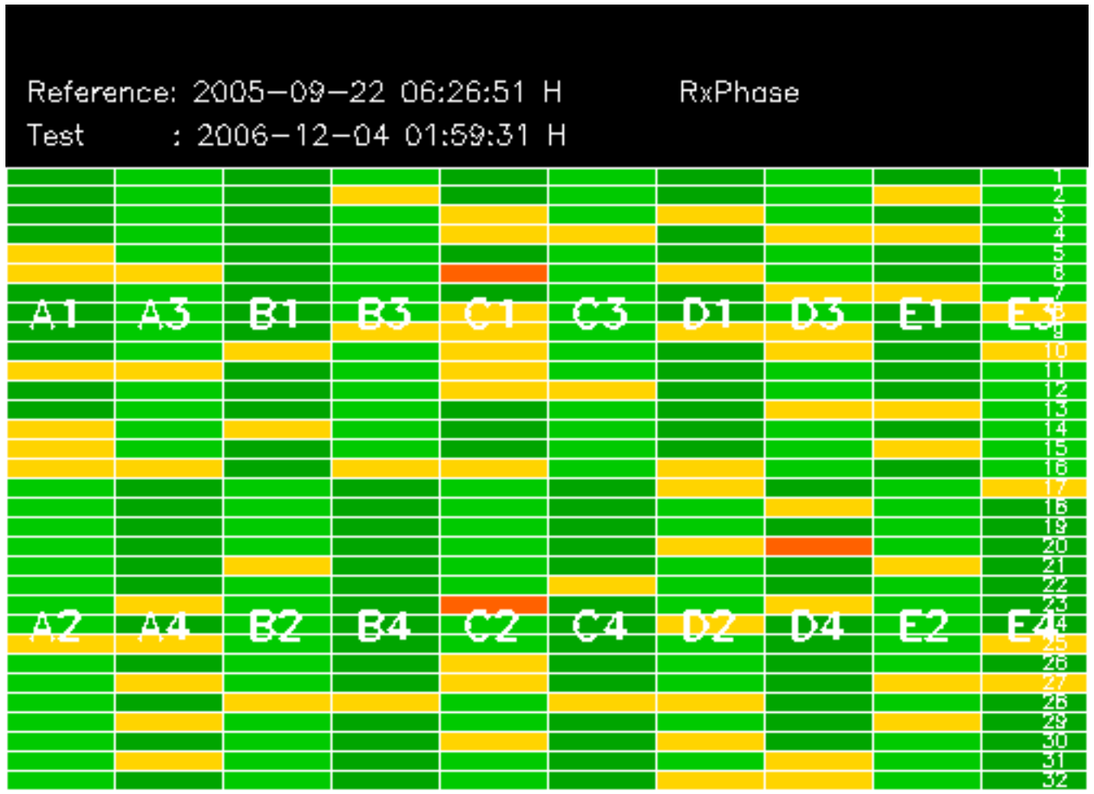

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-12-04 01:59:31 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2006-12-04 01:59:31 H
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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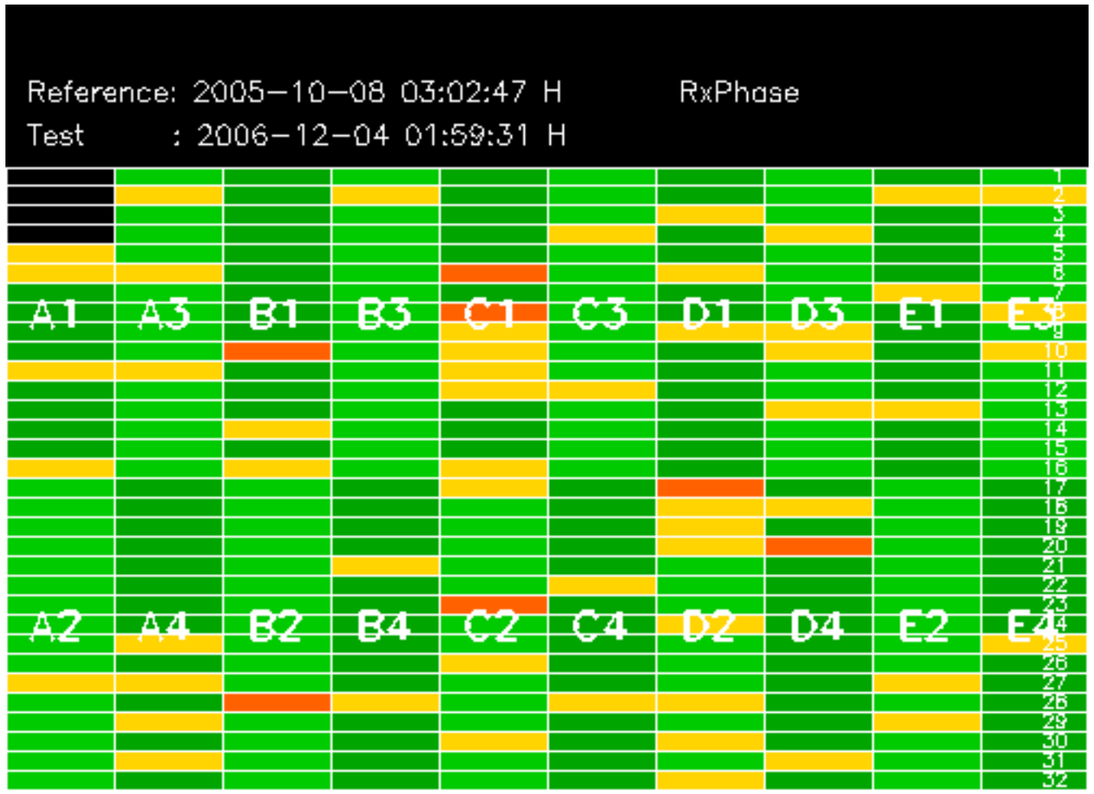
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-12-04 01:59:31 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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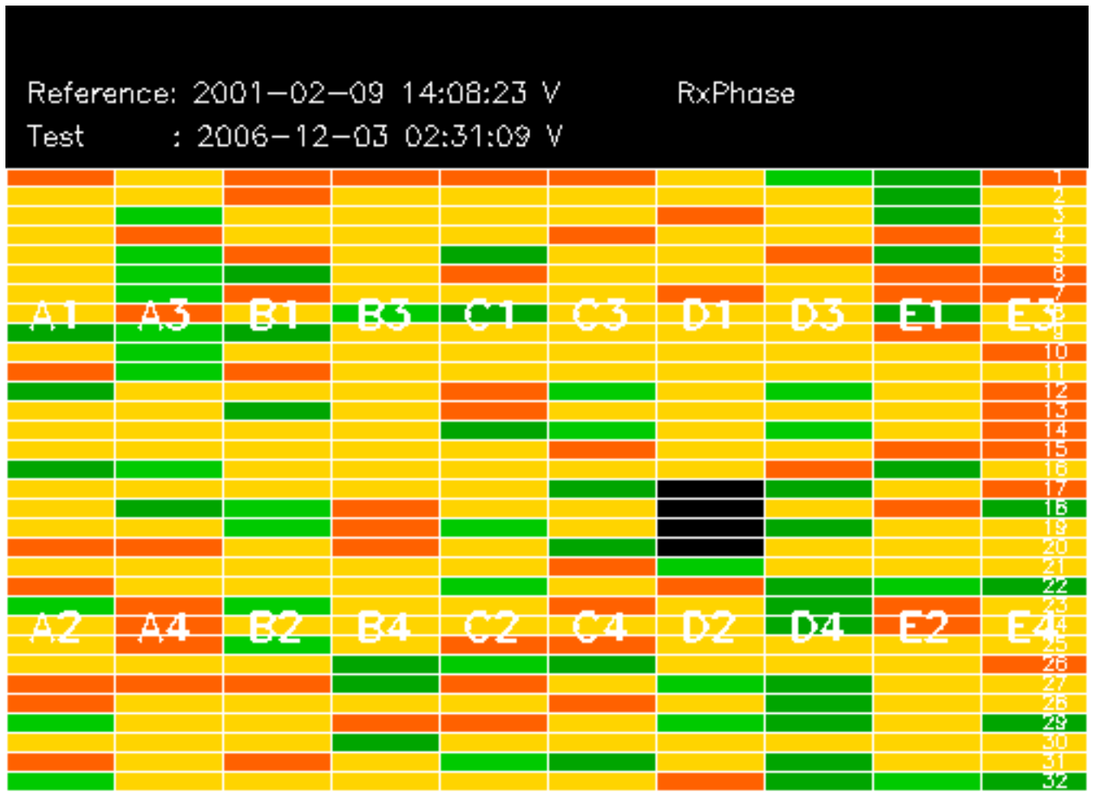
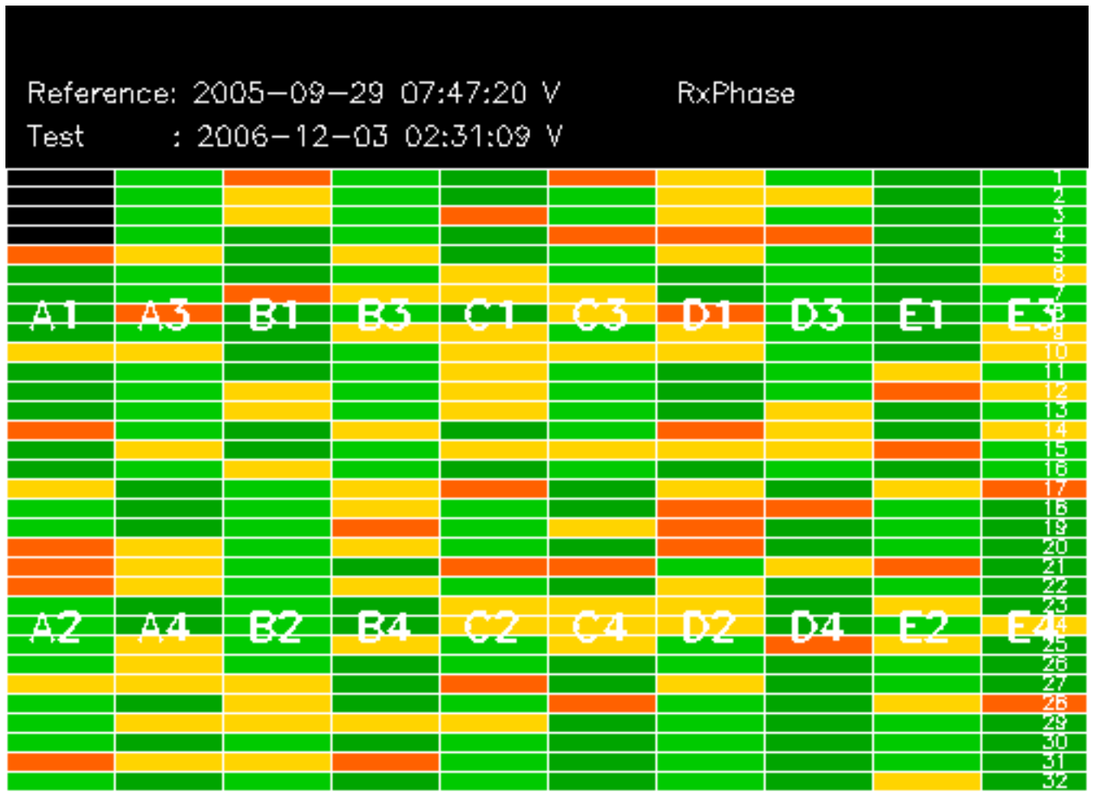

Reference: 2001-02-09 14:08:23 V
Test : 2006-12-03 02:31:09 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-12-03 02:31:09 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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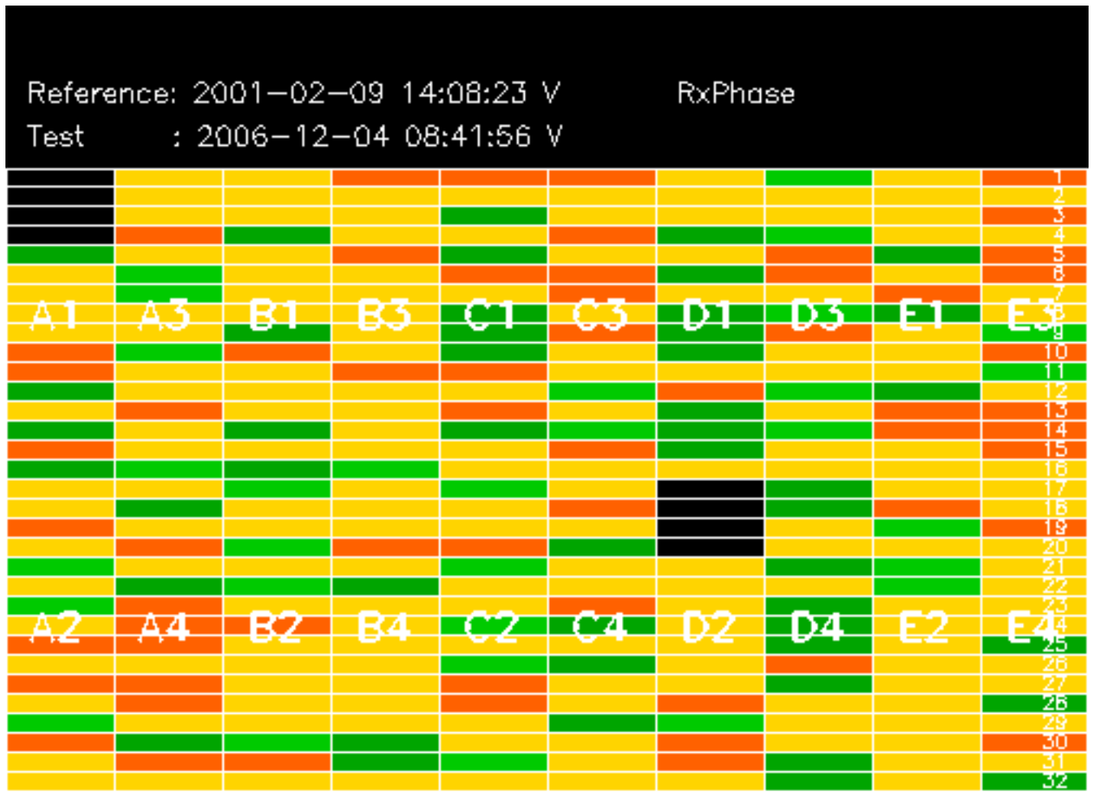
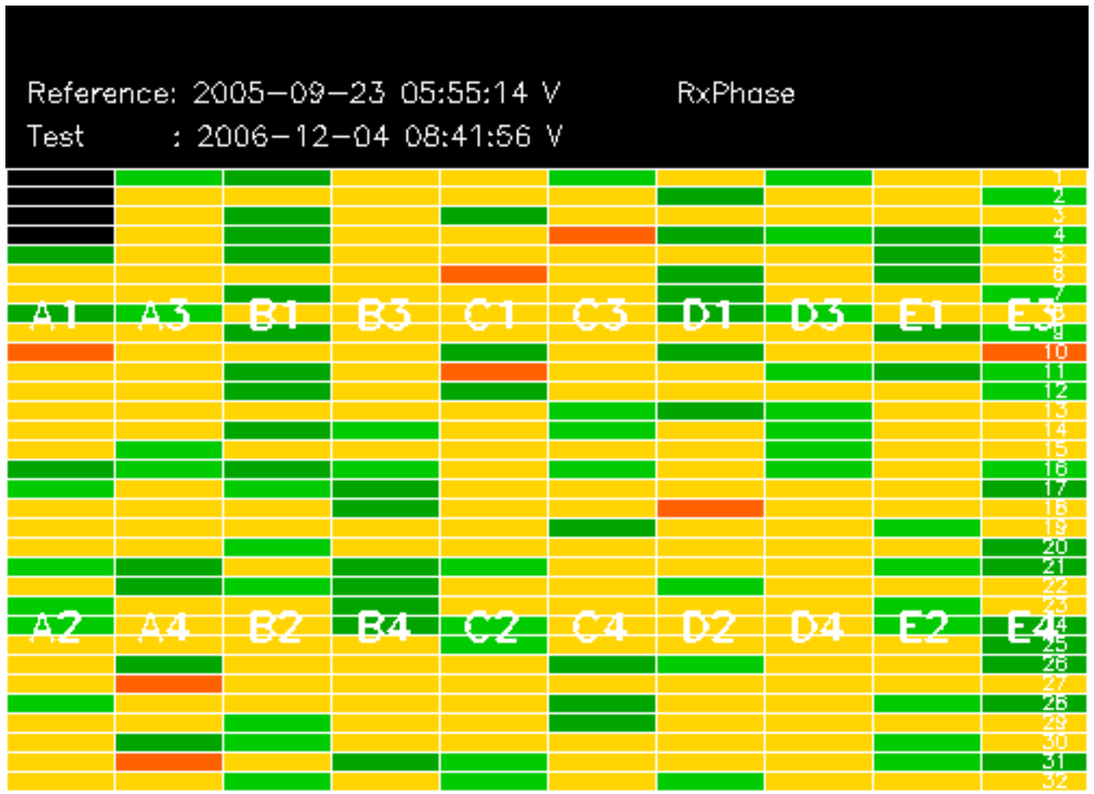
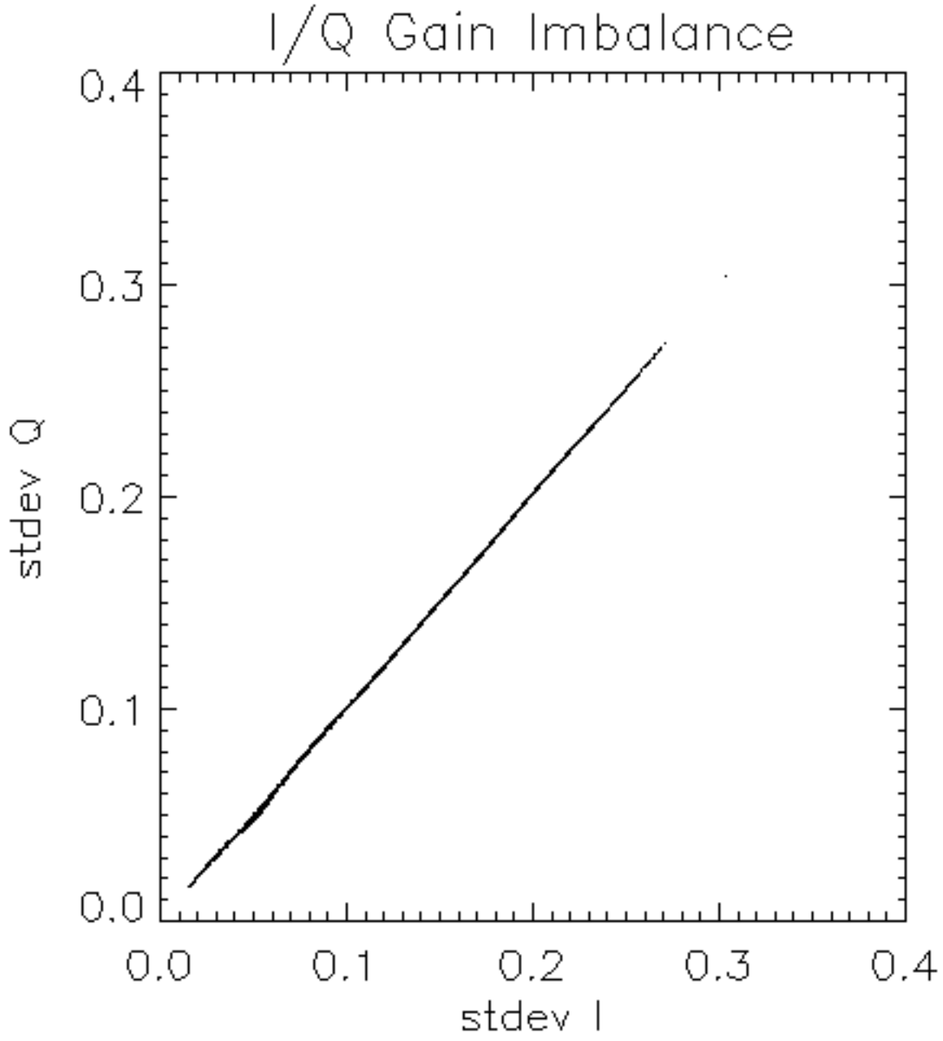
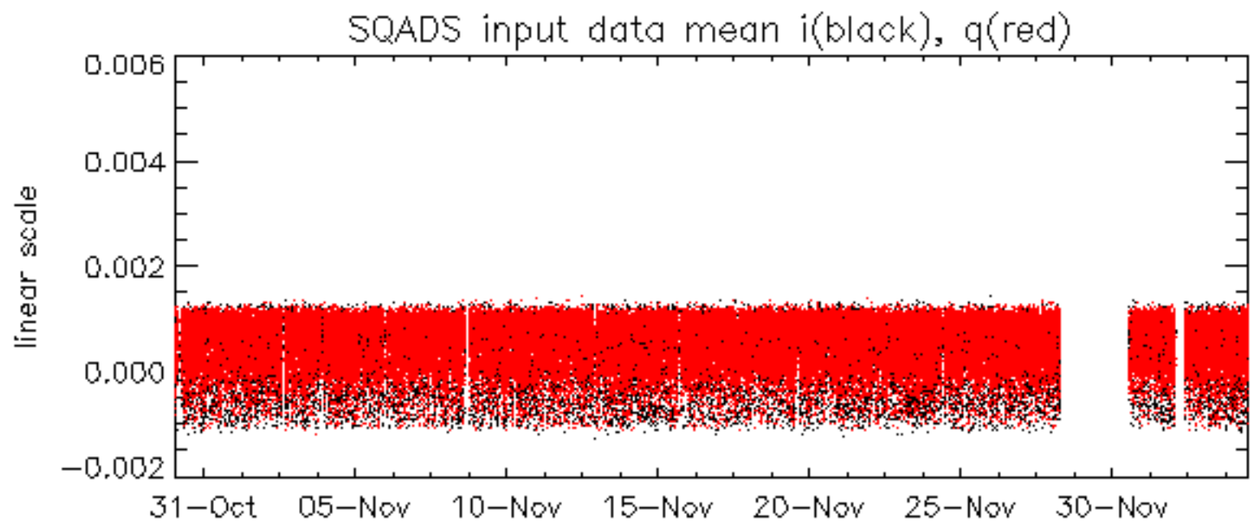
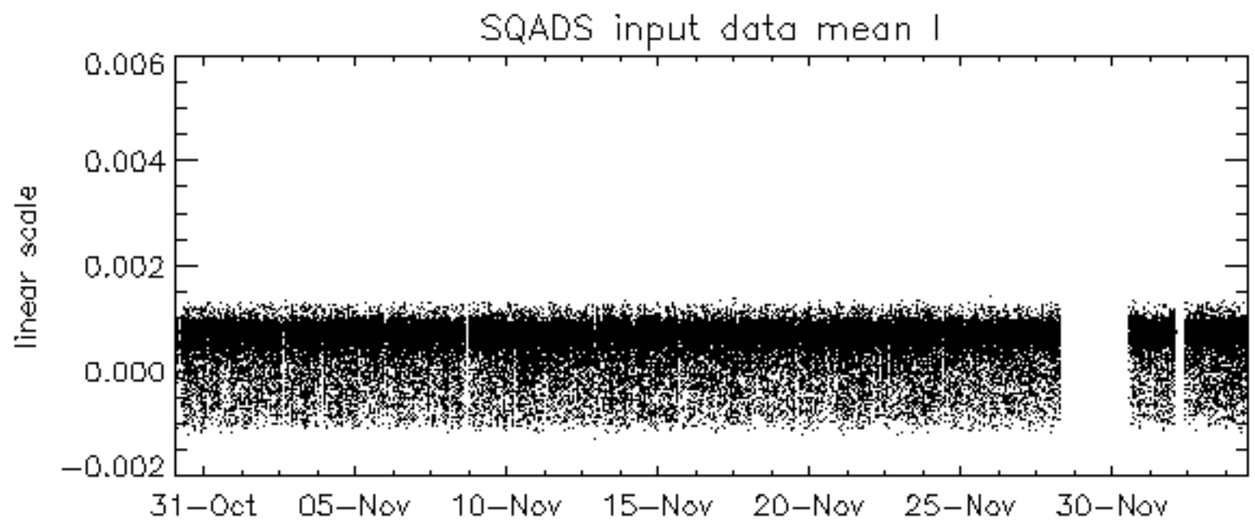
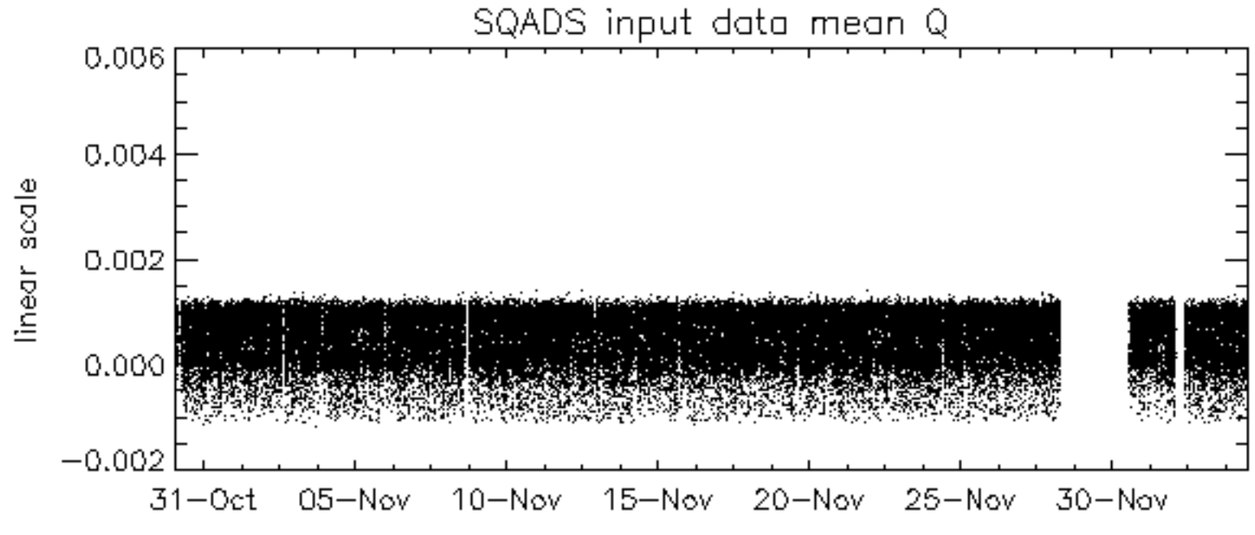

Reference: 2001-02-09 14:08:23 V
Test : 2006-12-04 08:41:56 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

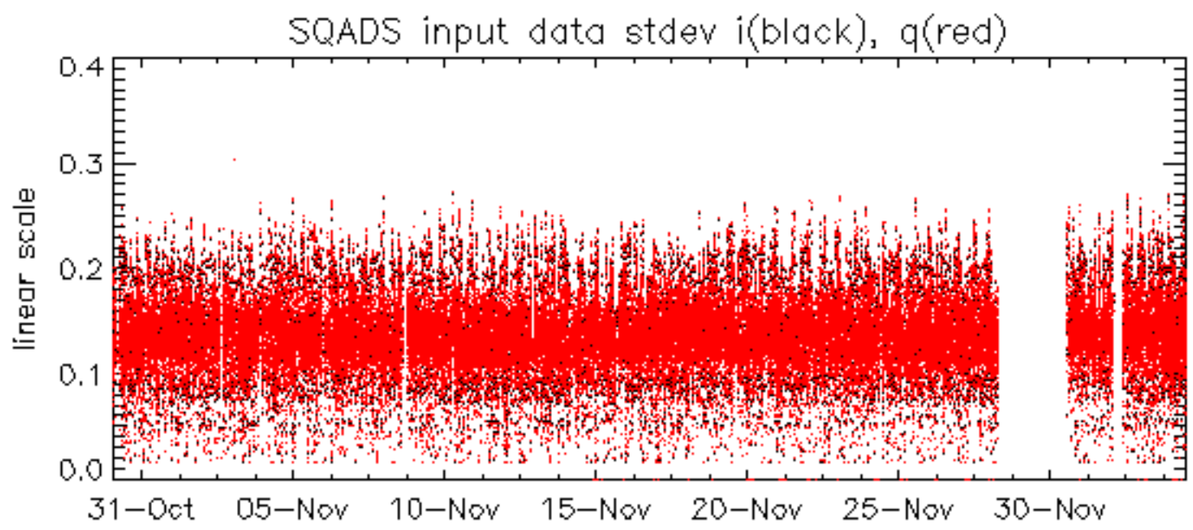

Reference: 2005-09-23 05:55:14 V
Test : 2006-12-04 08:41:56 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

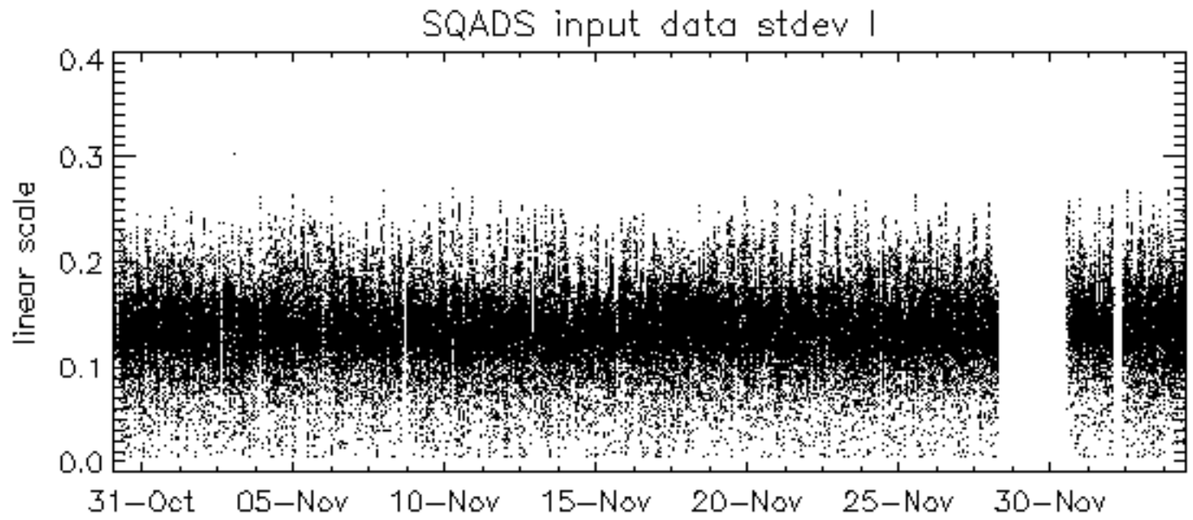

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

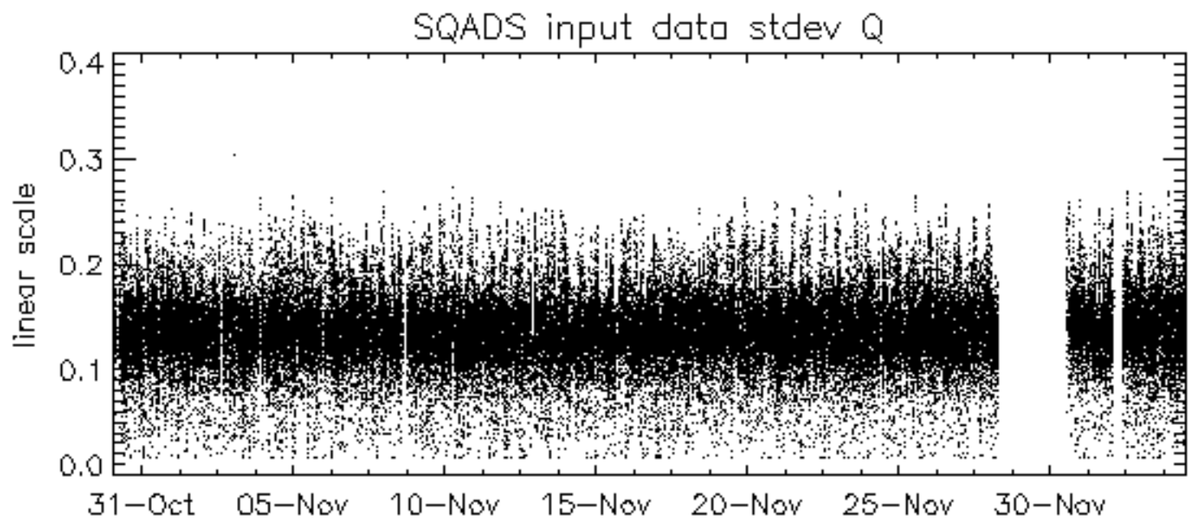

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov

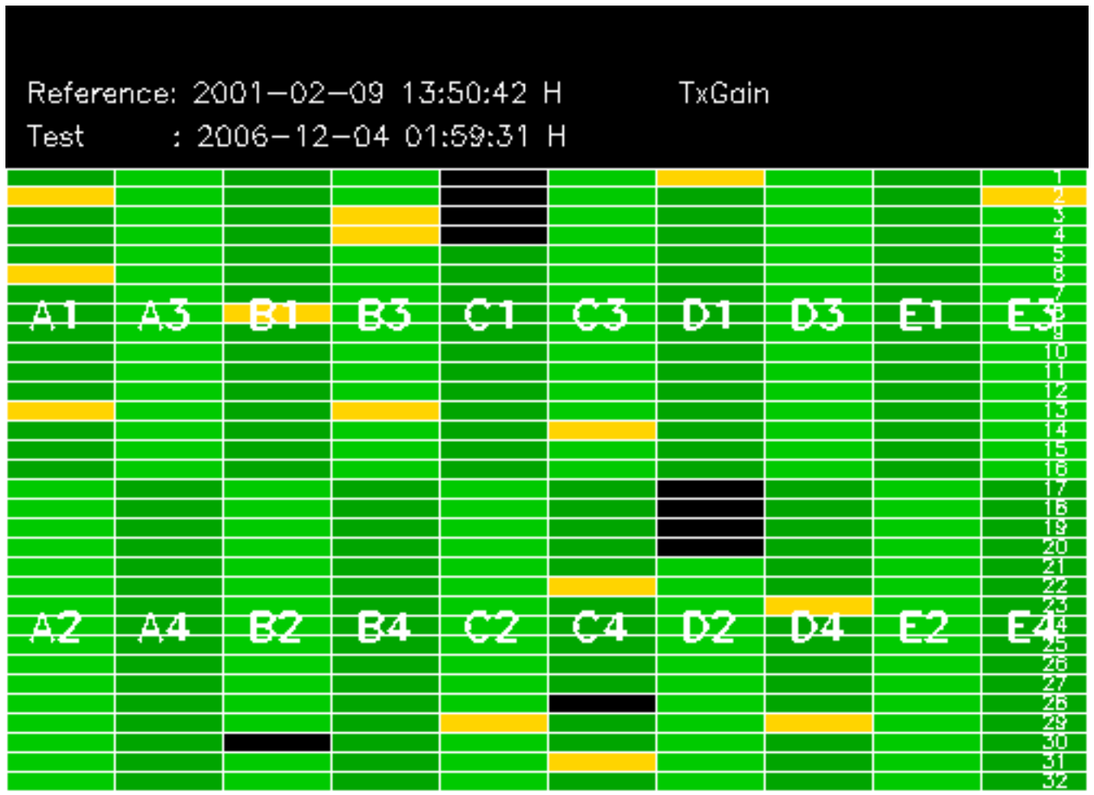

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov

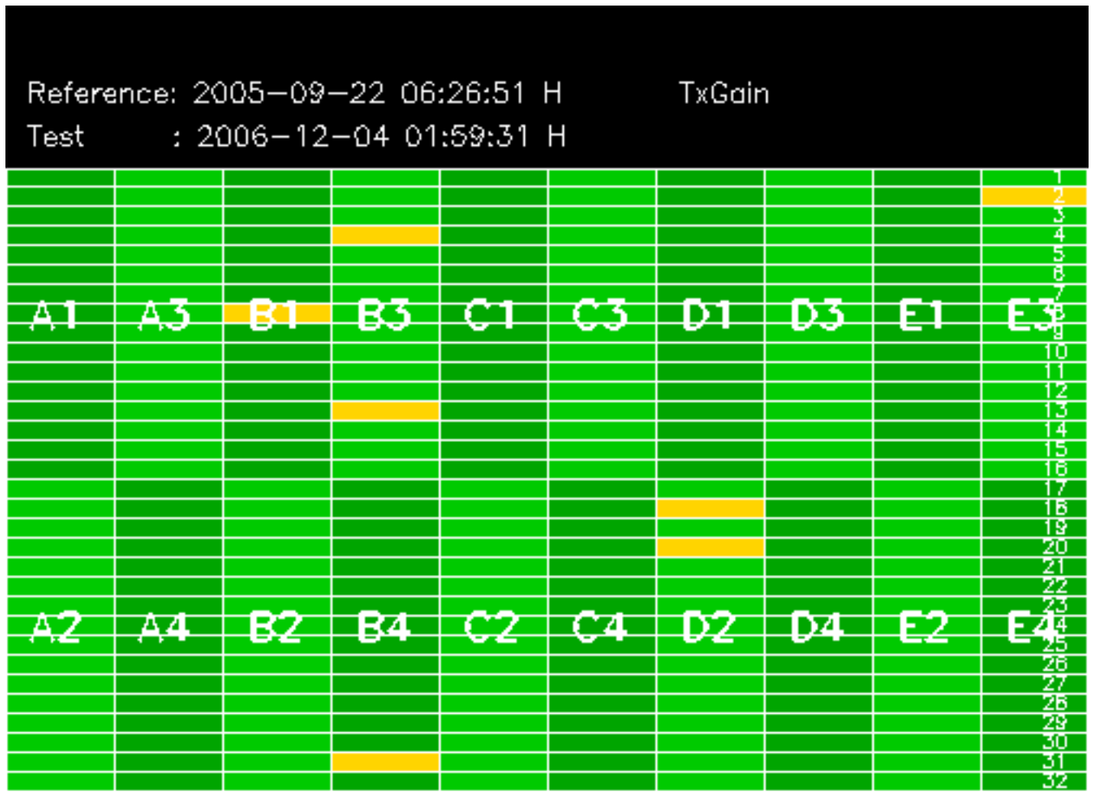

SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov


Reference: 2001-02-09 13:50:42 H
Test : 2006-12-04 01:59:31 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 : 2006-12-04 01:59:31 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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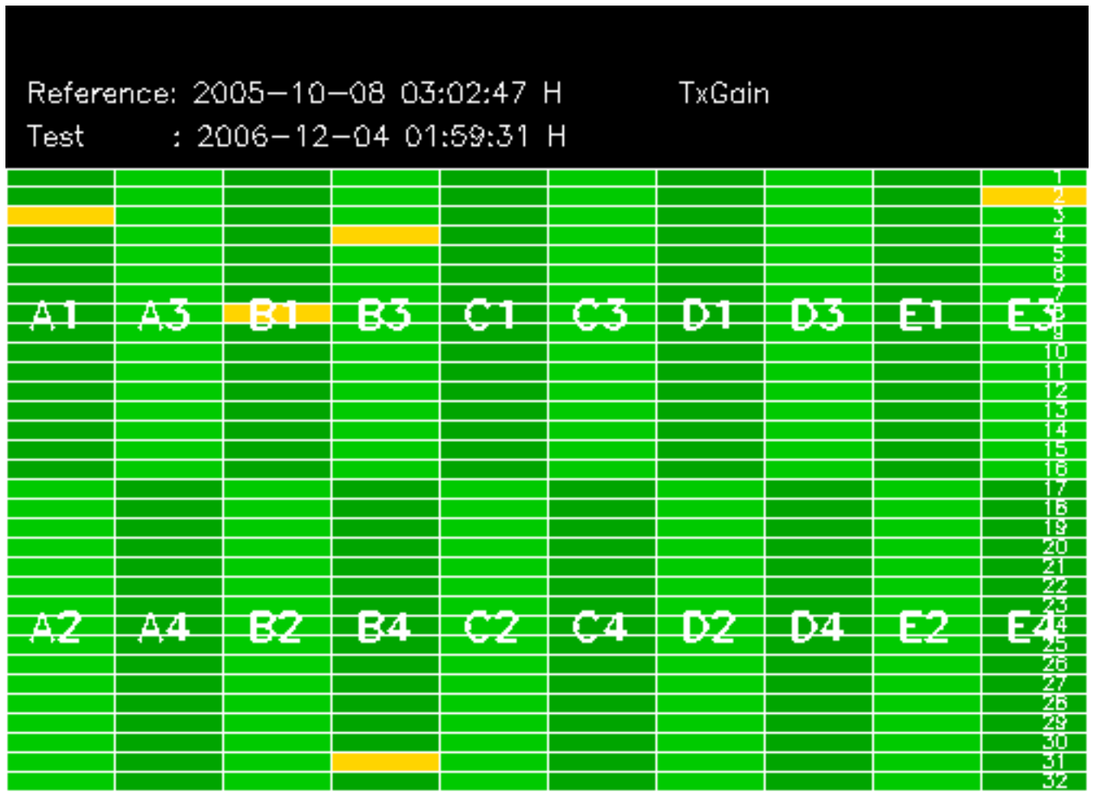
Reference: 2005-10-08 03:02:47 H
Test : 2006-12-04 01:59:31 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
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E4
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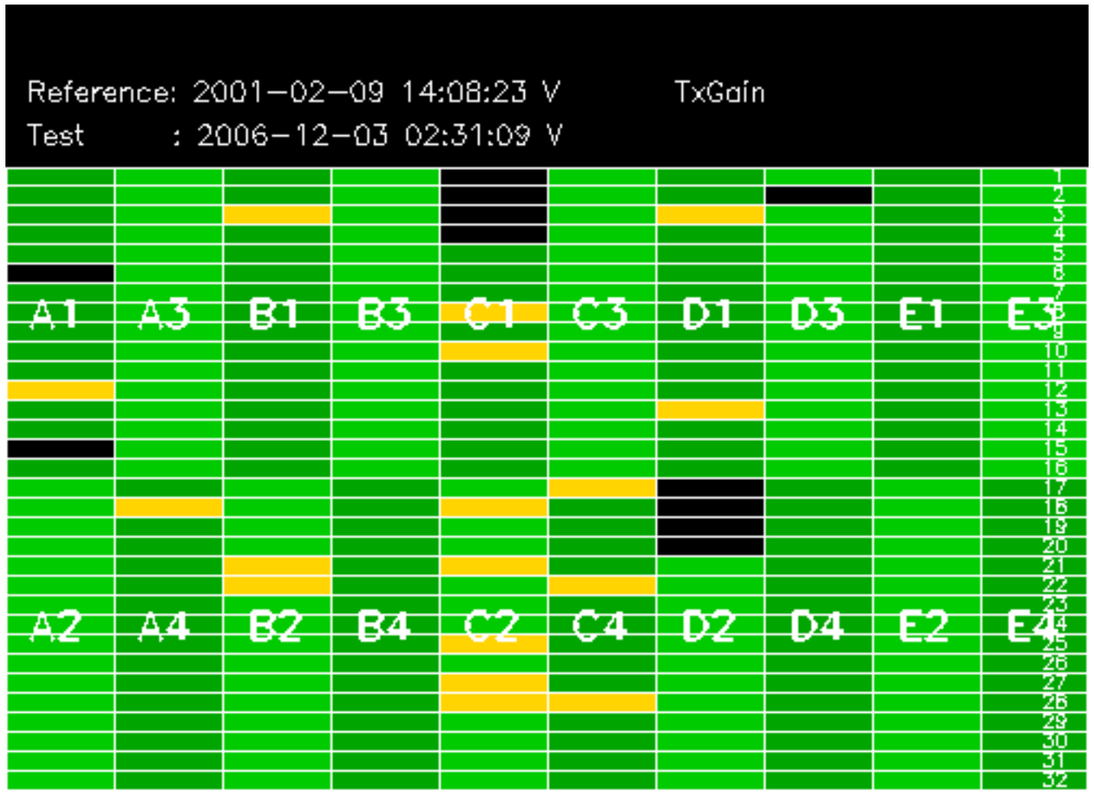
Reference: 2001-02-09 14:08:23 V
Test : 2006-12-03 02:31:09 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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Reference: 2005-09-29 07:47:20 V
Test : 2006-12-03 02:31:09 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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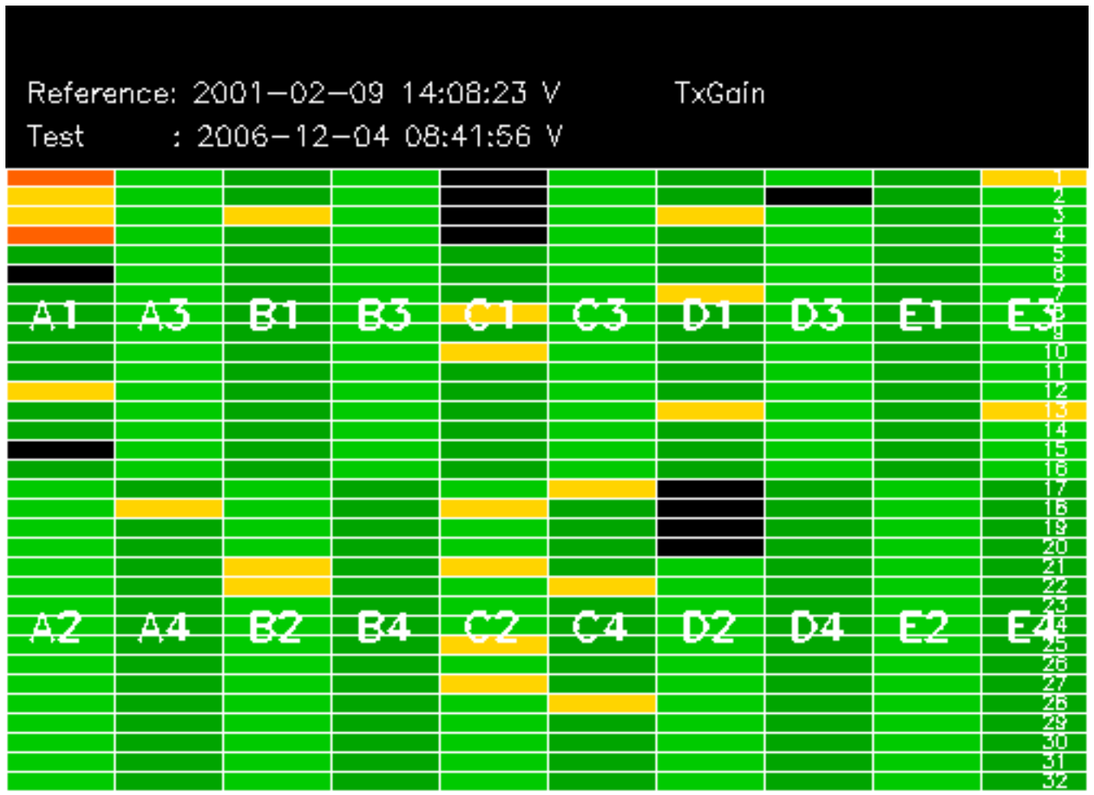
Reference: 2001-02-09 14:08:23 V
Test : 2006-12-04 08:41:56 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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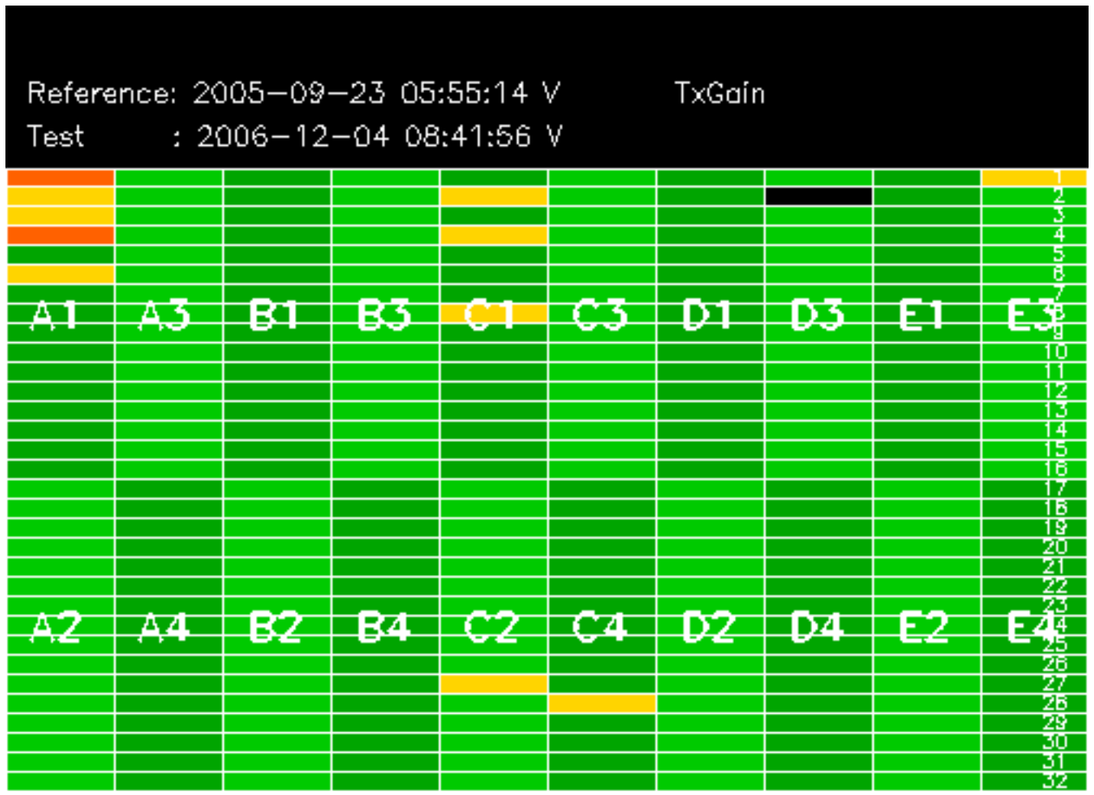
Reference: 2005-09-23 05:55:14 V
Test : 2006-12-04 08:41:56 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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Summary of analysis for the last 3 days 2006120[234]
The assumptions is taken 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>
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<tr> <td>ASA_WSM_1PNPDE20061202_010155_000001402053_00260_24863_5534.N1 </td> <td>0 </td> <td>35 </td></tr>
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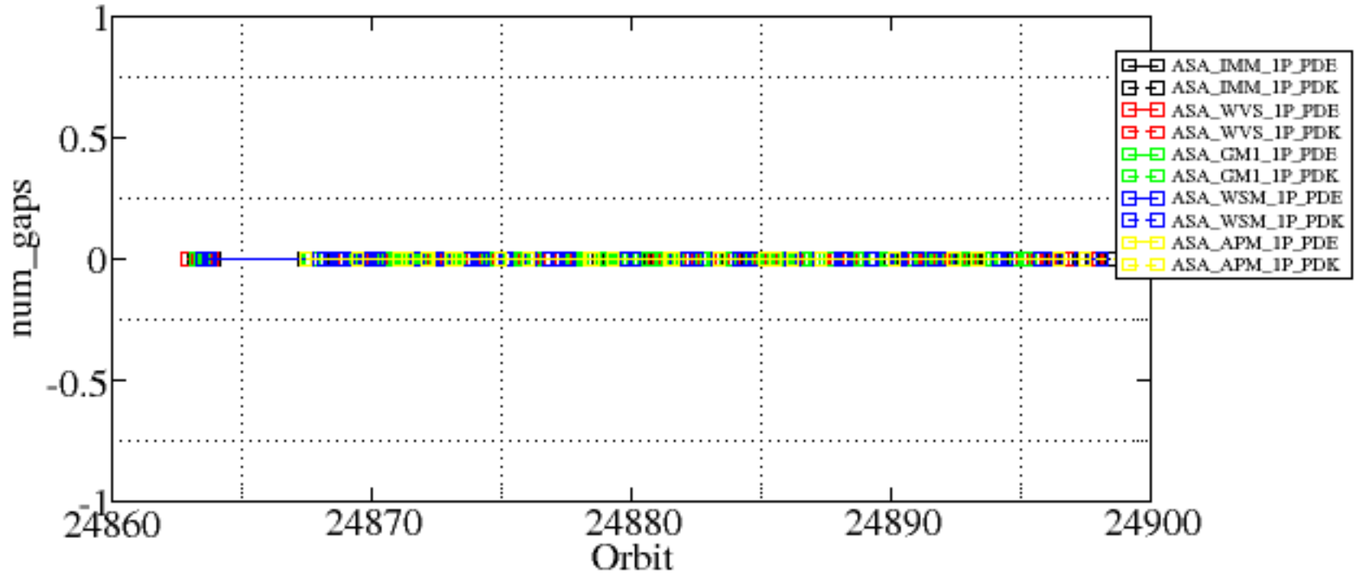
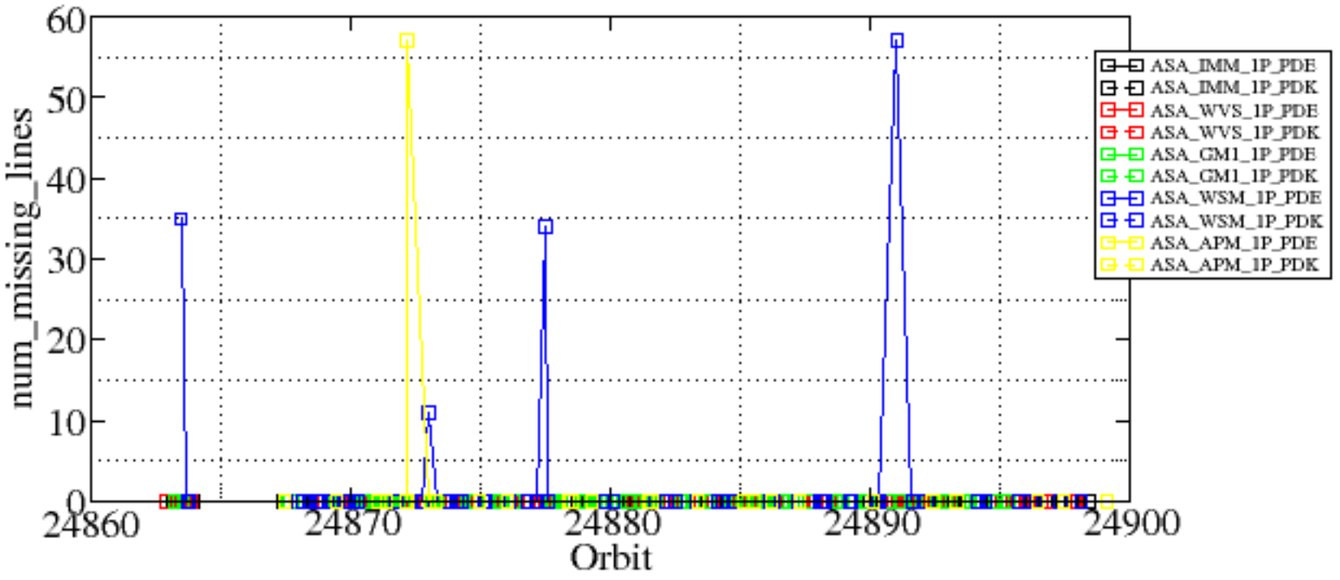
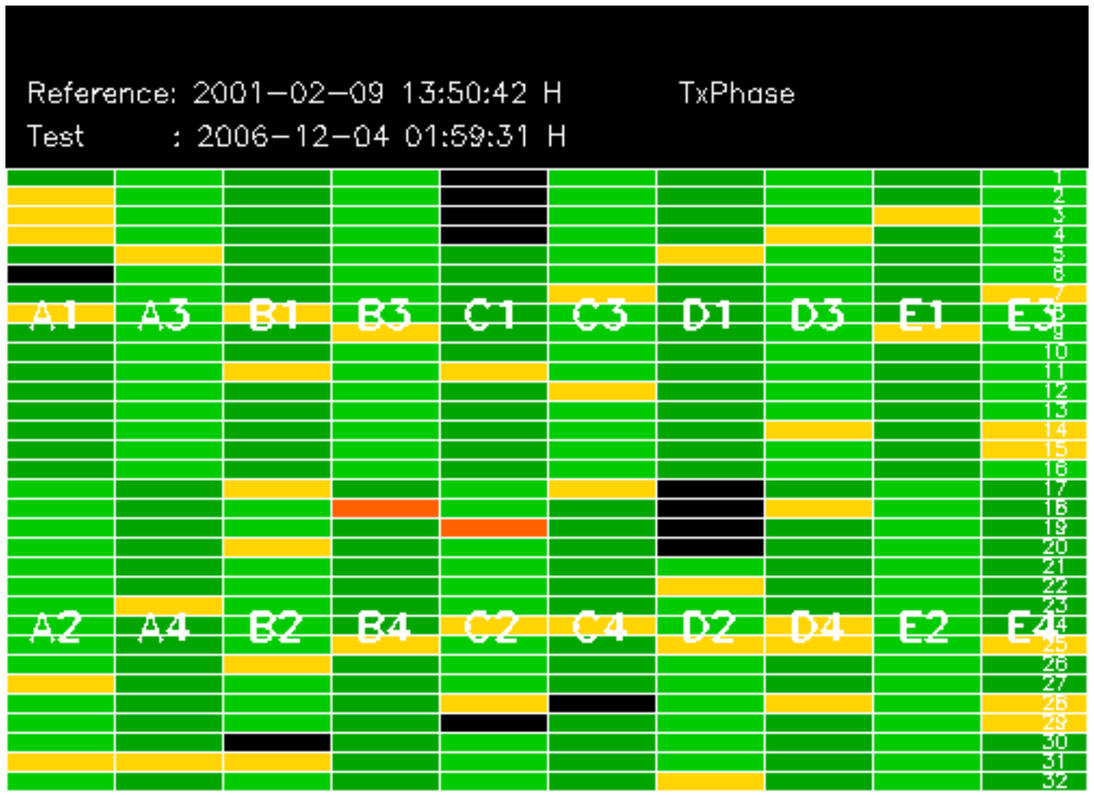

num_gaps
1
0.5
0
-0.5
-1
24860
24870
24880
24890
24900
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
60
50
40
30
20
10
0
24860
24870
24880
24890
24900
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
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
TxPhase
Test : 2006-12-04 01:59:31 H
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
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21
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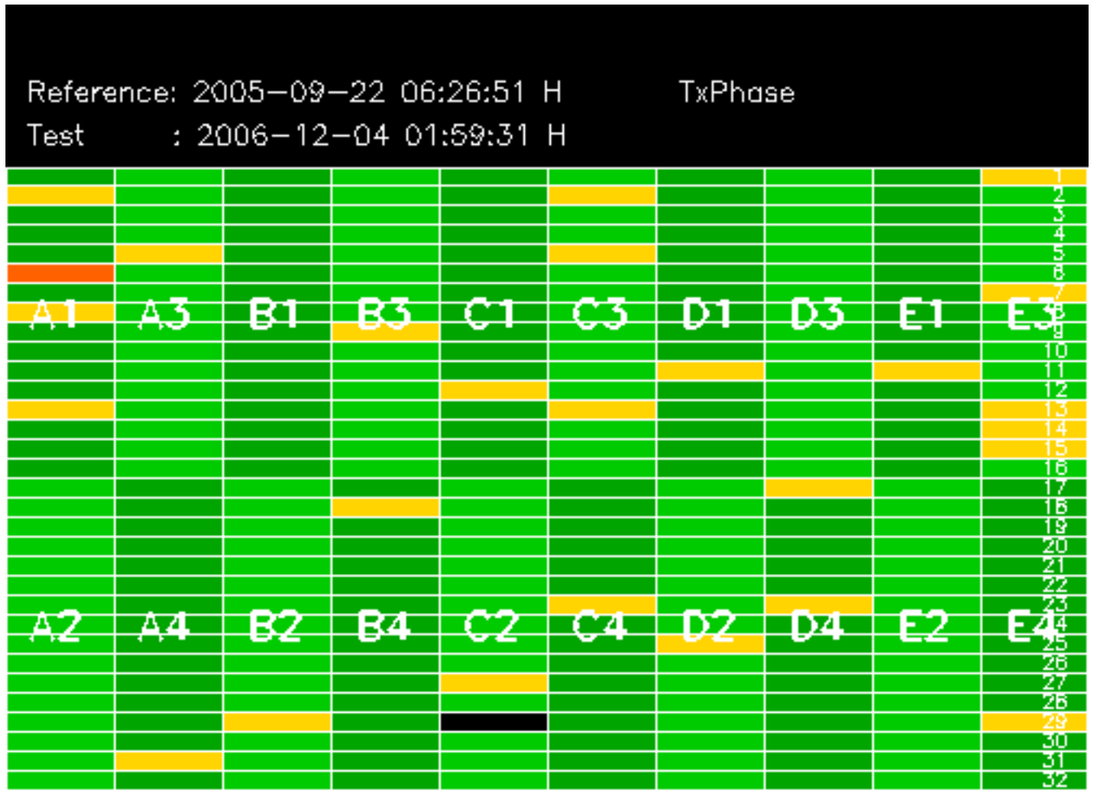
25
26
27
28
29
30
31
32


Reference: 2005-09-22 06:26:51 H
Test : 2006-12-04 01:59:31 H
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
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26
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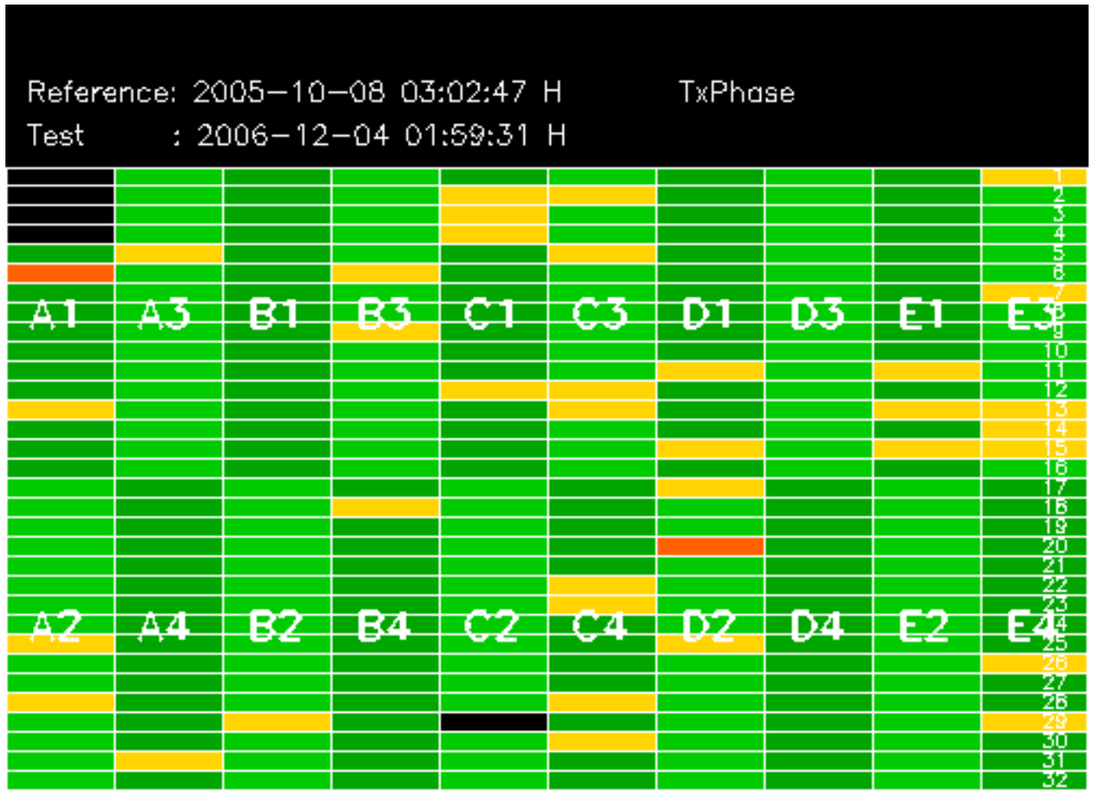
29
30
31
32


Reference: 2005-10-08 03:02:47 H
Test : 2006-12-04 01:59:31 H
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
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26
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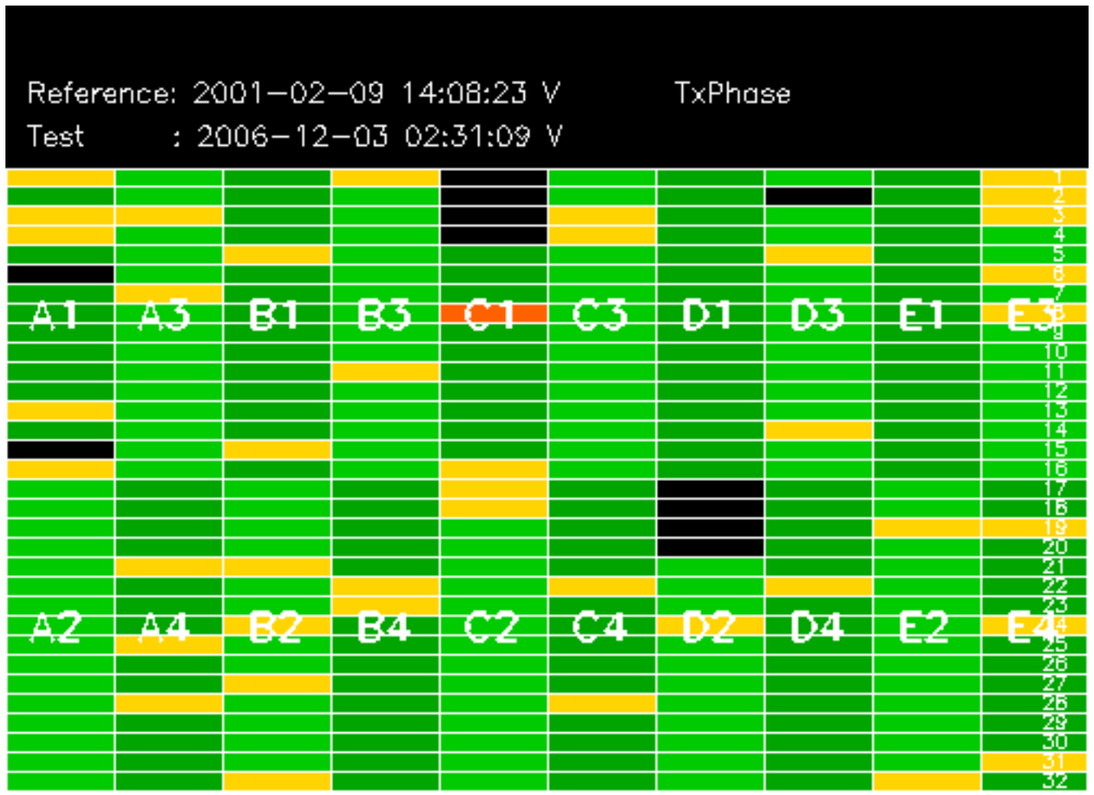
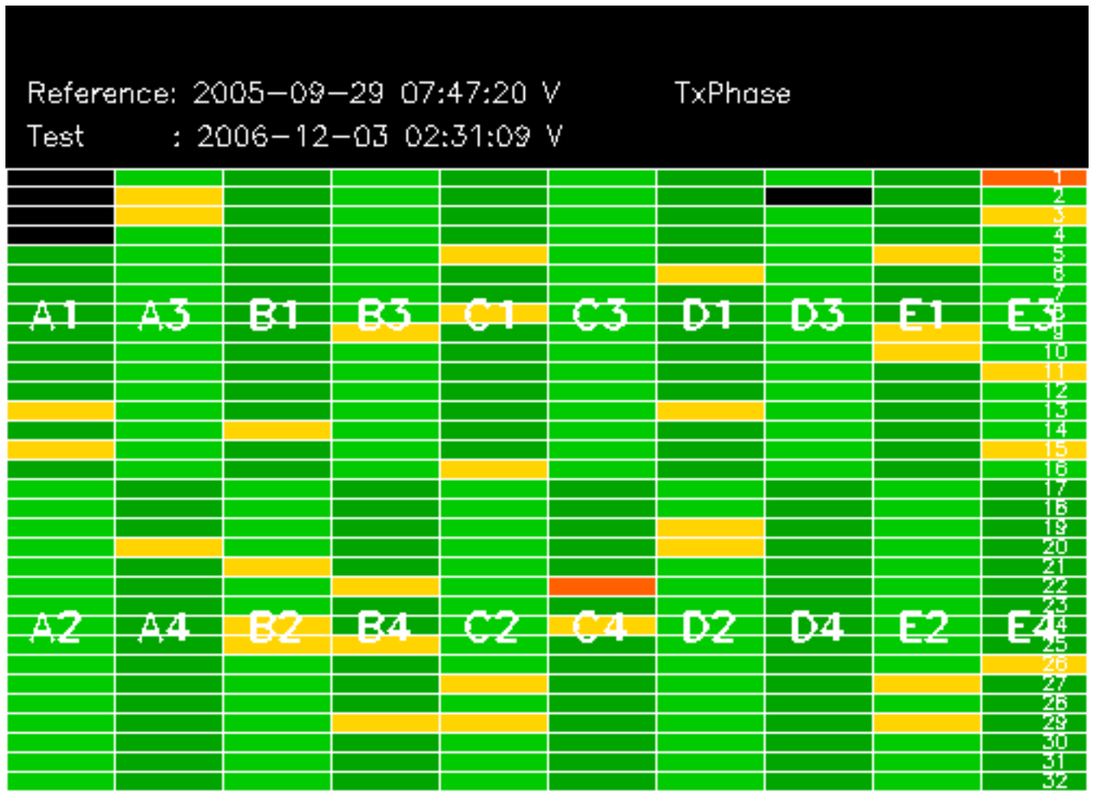
30
31
32


Reference: 2001-02-09 14:08:23 V
Test : 2006-12-03 02:31:09 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 : 2006-12-03 02:31:09 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
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12
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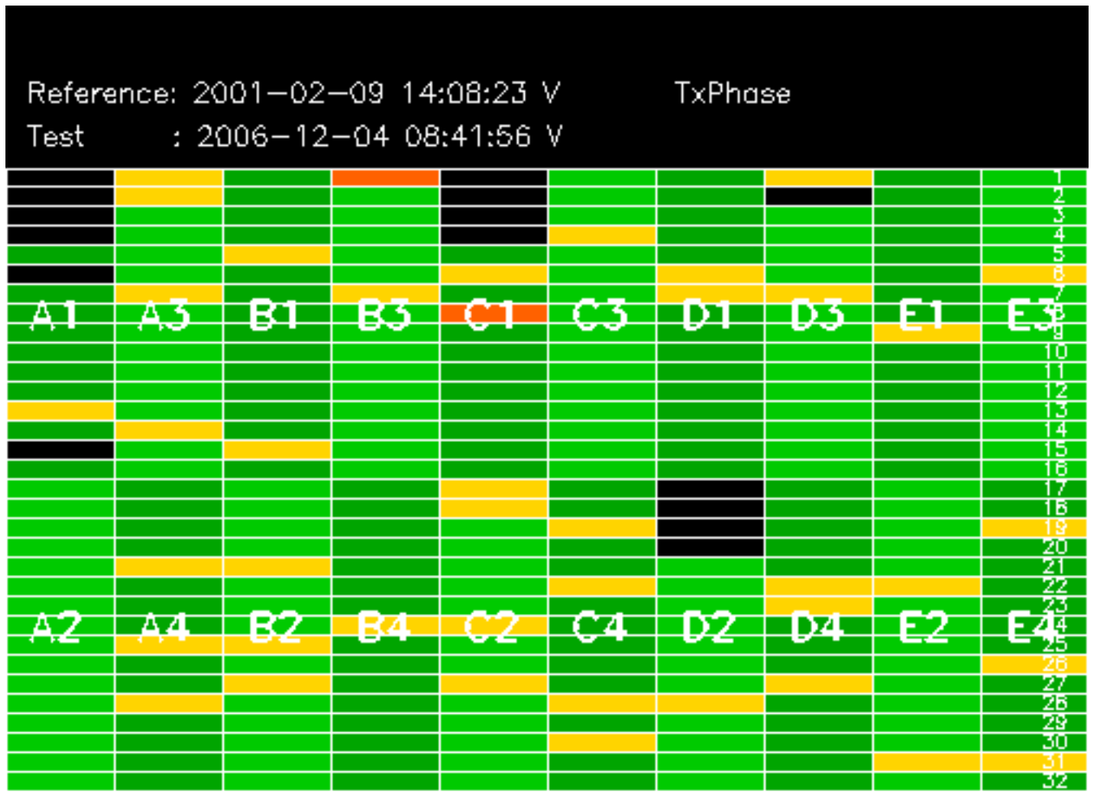
32


Reference: 2001-02-09 14:08:23 V
Test : 2006-12-04 08:41:56 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
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14
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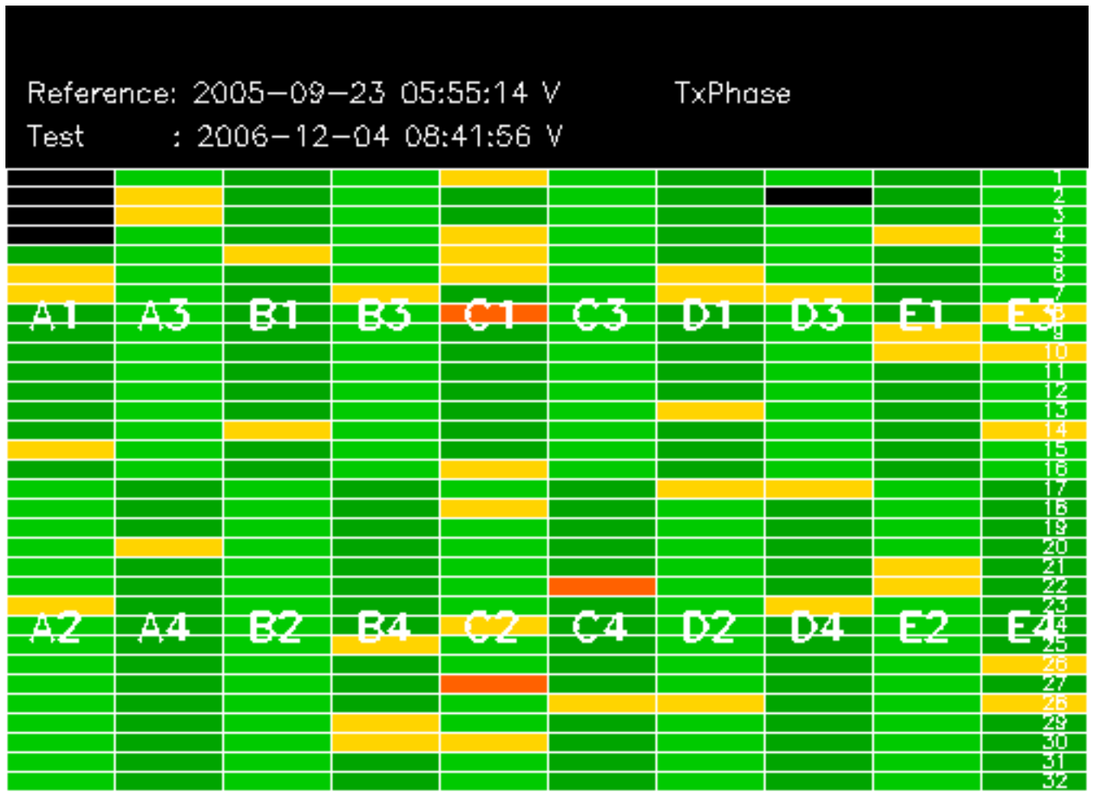
Reference: 2005-09-23 05:55:14 V
Test : 2006-12-04 08:41:56 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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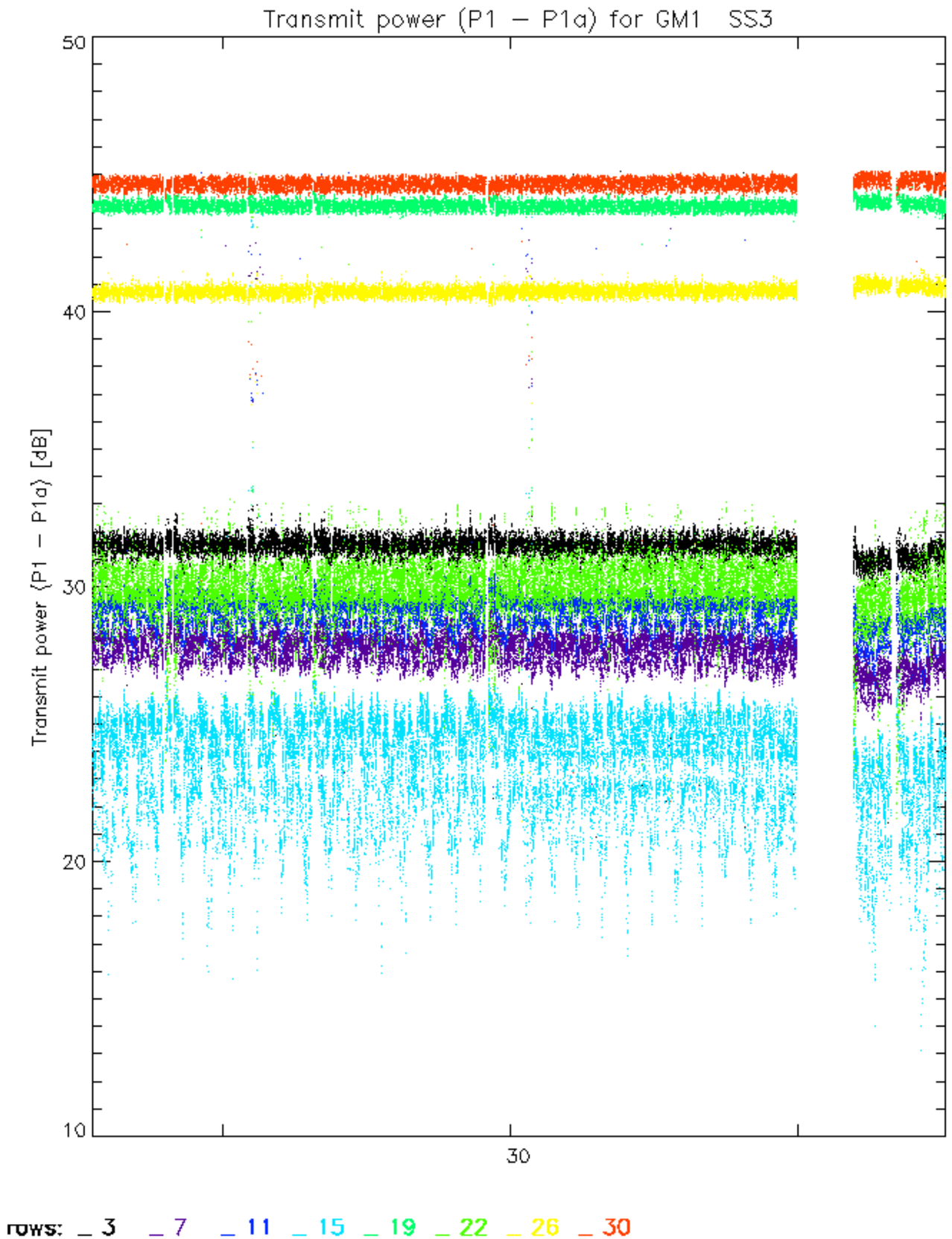
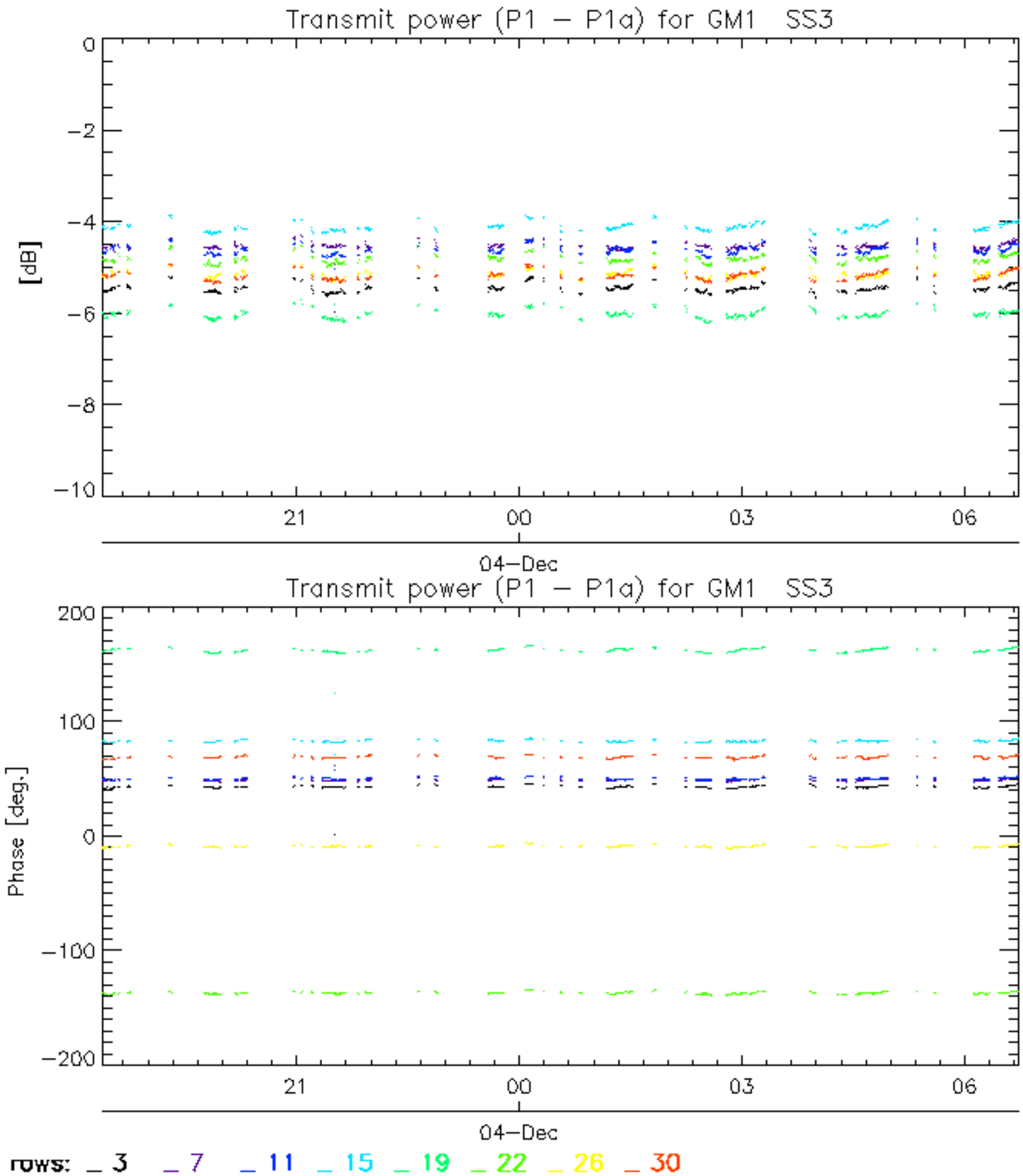
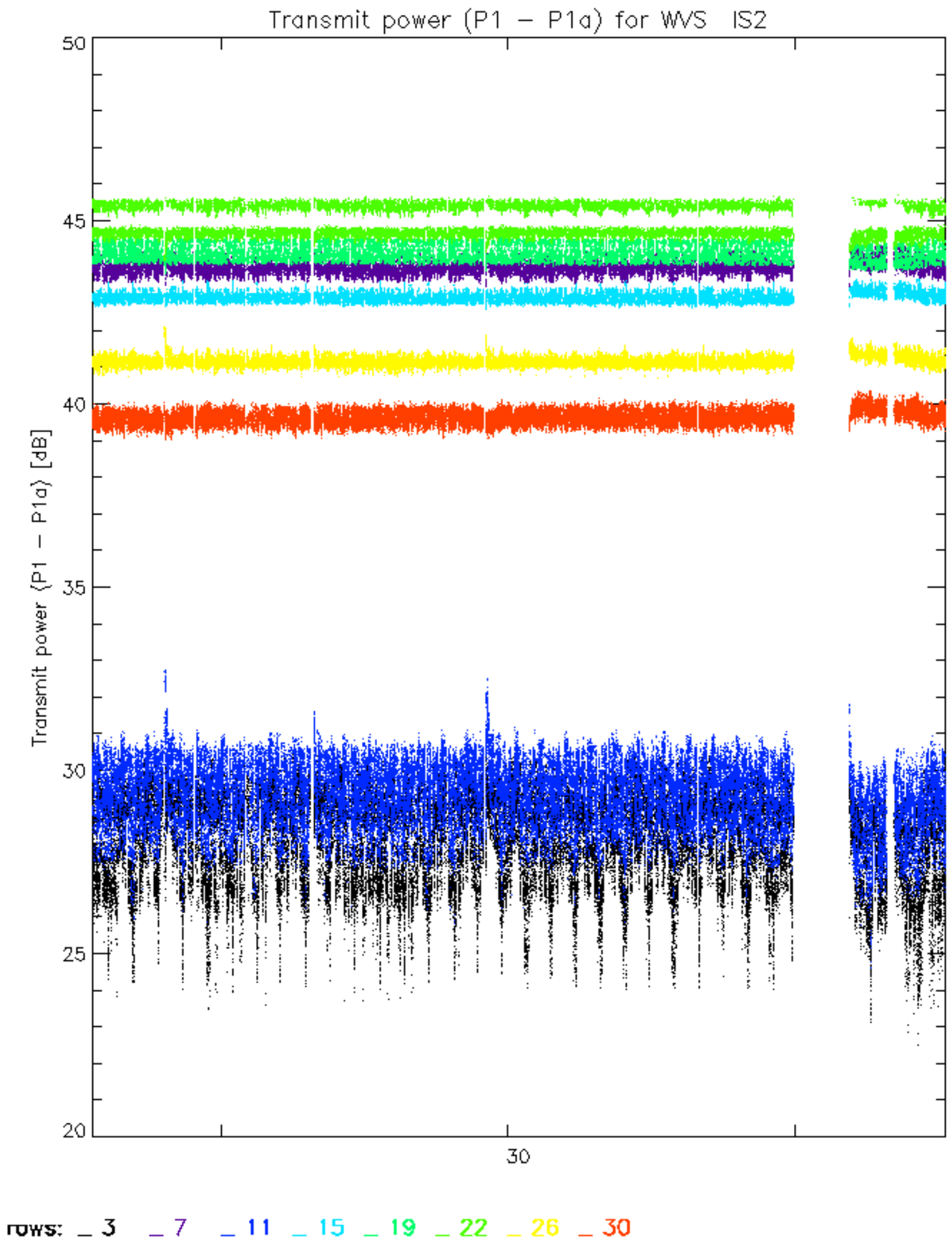
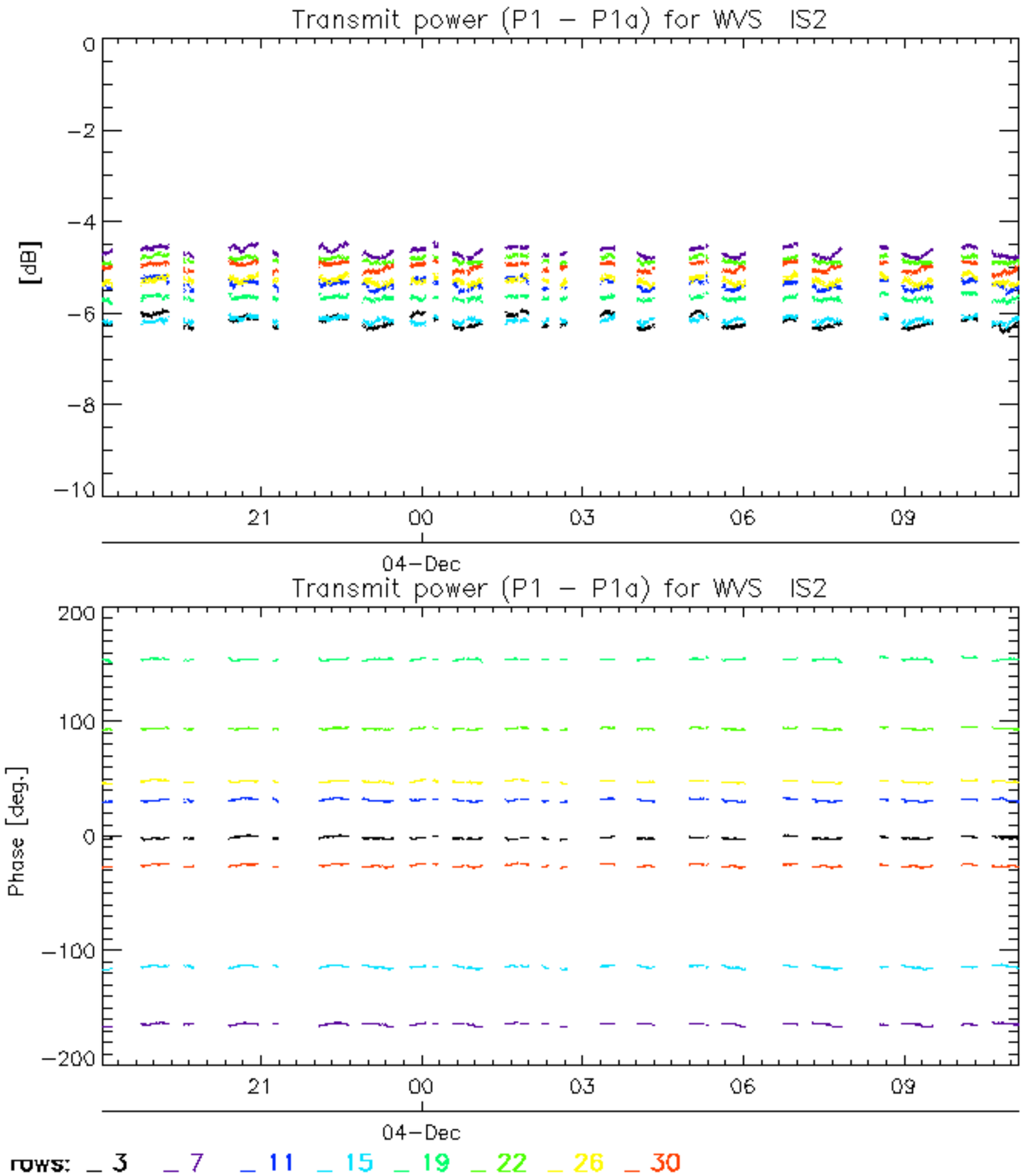

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
30
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
21
00
03
06
04–Dec
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
21
00
03
06
04–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
30
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
21
00
03
06
09
04−Dec
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
21
00
03
06
09
04−Dec
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.