PRELIMINARY REPORT OF 051208

last update on Thu Dec 8 16:42:44 GMT 2005

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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 2005-12-07 00:00:00 to 2005-12-08 16:42:44

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	42	0	16	0	21
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	42	0	16	0	21
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	42	0	16	0	21
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	42	0	16	0	21

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	41	44	37	10	42
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	41	44	37	10	42
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	41	44	37	10	42
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	41	44	37	10	42

2.3 - Browse Visual Inspection

No anomalies observed on available browse products

2.4 - Data Analysis

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

3 - Module Stepping Mode

No anomalies observed on available MS products:

Polarisation	Start Time
V	20051208 074716
H	20051207 081853

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	-3.547781	0.145198	0.305475
7	P1	-2.821620	0.103259	0.783259
11	P1	-4.142866	0.017491	-0.014722
15	P1	-5.400395	1.394178	3.202709
19	P1	-3.081723	0.049249	0.547760
22	P1	-4.455914	0.019625	0.192861
26	P1	-4.347324	0.050971	-0.542607
30	P1	-5.683959	0.028323	0.351625
3	P1	-15.274879	1.622852	1.152964
7	P1	-15.655465	2.128402	3.861649
11	P1	-16.397718	0.425890	0.869758
15	P1	-13.021627	0.810543	2.205539
19	P1	-13.524814	0.281193	1.268112
22	P1	-16.164051	0.568826	0.945230
26	P1	-15.348763	0.957692	2.336745
30	P1	-15.916974	2.040296	3.588896

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.877014	0.103009	-0.060167
7	P2	-22.564621	0.101348	0.048102
11	P2	-16.591927	0.114289	-0.105771
15	P2	-7.275030	0.100951	-0.061188
19	P2	-9.224531	0.098201	0.033979
22	P2	-17.868631	0.105935	0.131634
26	P2	-16.311182	0.125584	-0.488763
30	P2	-19.750568	0.110916	-0.372013

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.232616	0.007274	-0.017581
7	P3	-8.232616	0.007274	-0.017581
11	P3	-8.232616	0.007274	-0.017581
15	P3	-8.232616	0.007274	-0.017581
19	P3	-8.232616	0.007274	-0.017581
22	P3	-8.232616	0.007274	-0.017581
26	P3	-8.232616	0.007274	-0.017581
30	P3	-8.232616	0.007274	-0.017581

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	-3.690911	0.007852	-0.036348
7	P1	-2.783381	0.010816	0.006621
11	P1	-2.874550	0.013736	-0.019842
15	P1	-3.396008	0.021592	-0.050177
19	P1	-3.378015	0.013335	-0.036652
22	P1	-5.114792	0.019843	-0.043467
26	P1	-5.822018	0.016200	-0.062809
30	P1	-5.265769	0.032391	-0.045047
3	P1	-11.463916	0.041560	-0.045320
7	P1	-9.970106	0.045835	-0.000502
11	P1	-10.047662	0.060946	-0.025441
15	P1	-10.566236	0.084504	-0.060319
19	P1	-15.503076	0.073813	-0.025555
22	P1	-20.921383	0.965813	-0.112127

26	P1	-17.221386	0.305387	0.148446
30	P1	-18.340813	0.316099	0.014881

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.653009	0.030640	0.076563
7	P2	-23.063395	0.062652	0.051450
11	P2	-11.677469	0.022939	0.112006
15	P2	-4.975896	0.021533	-0.035976
19	P2	-6.954631	0.021841	-0.030108
22	P2	-8.172517	0.024003	-0.074602
26	P2	-24.033884	0.031972	-0.061790
30	P2	-22.112240	0.020665	-0.023580

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.072137	0.002487	-0.015194
7	P3	-8.072162	0.002492	-0.015684
11	P3	-8.072062	0.002478	-0.015520
15	P3	-8.072141	0.002489	-0.015189
19	P3	-8.072337	0.002499	-0.015168
22	P3	-8.072177	0.002490	-0.015470
26	P3	-8.072110	0.002476	-0.015672
30	P3	-8.072043	0.002489	-0.014932

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	0.000487915
	stdev	2.08974e-07
MEAN Q	mean	0.000497169
	stdev	2.34882e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.131147
	stdev	0.00111290
STDEV Q	mean	0.131450
	stdev	0.00112664

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005120[678]
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_1PNPDE20051206_014940_000002812043_00103_19696_2963.N1	0	3
ASA_WSM_1PNPDE20051206_042641_000001832043_00105_19698_2974.N1	0	61
ASA_WSM_1PNPDE20051206_143021_000000852043_00111_19704_3065.N1	0	40
ASA_WSM_1PNPDE20051207_011642_000003672043_00117_19710_3119.N1	0	35
ASA_WSM_1PNPDE20051207_062903_000001402043_00120_19713_3149.N1	0	18

ASA_WSM_1PNPDE20051207_062903_000001402043_00120_19713_3182.N1	0	18
ASA_WSM_1PNPDE20051207_144158_000002082043_00125_19718_3195.N1	0	38
ASA_WSM_1PNPDE20051208_032332_000002442043_00133_19726_3277.N1	0	35

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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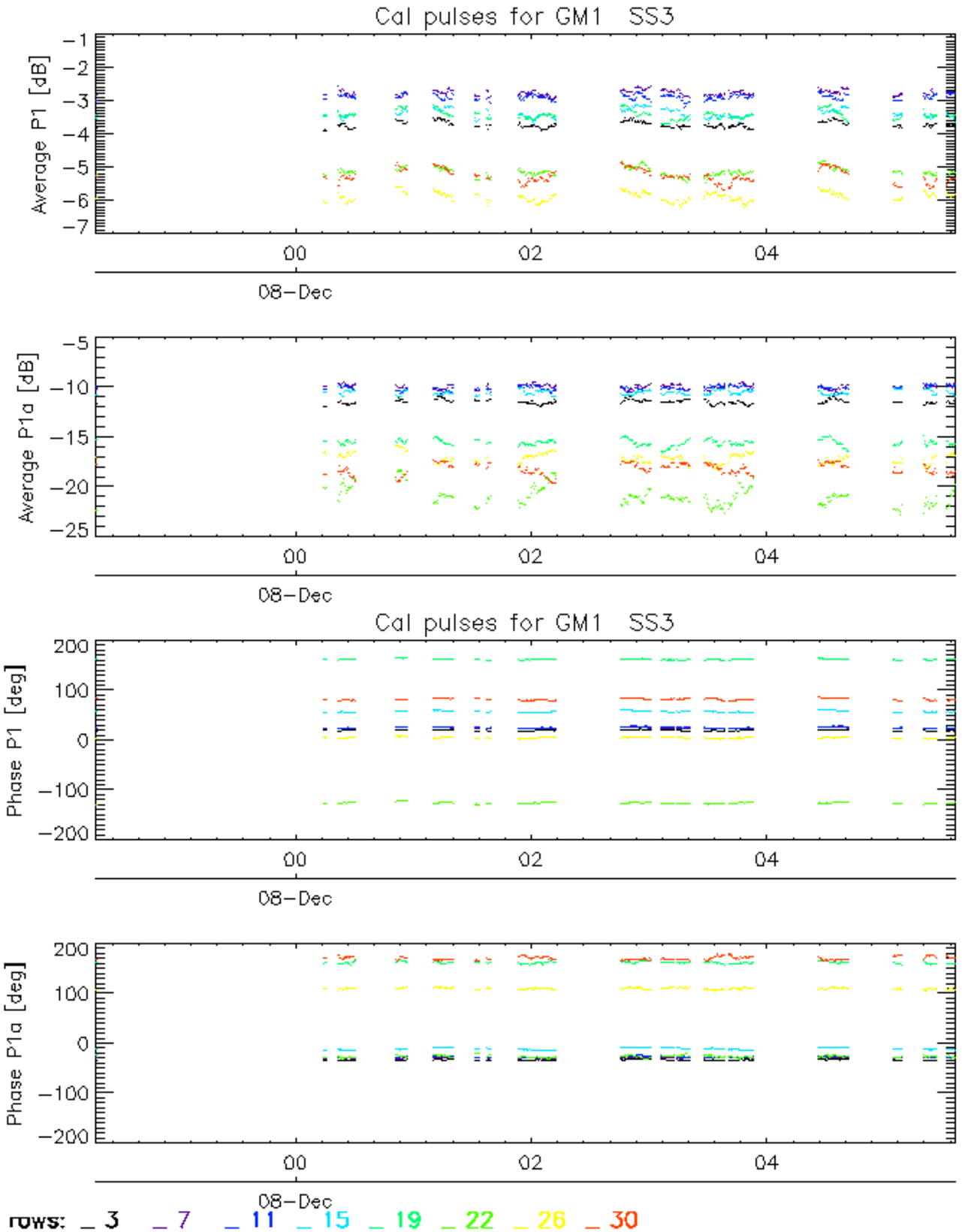
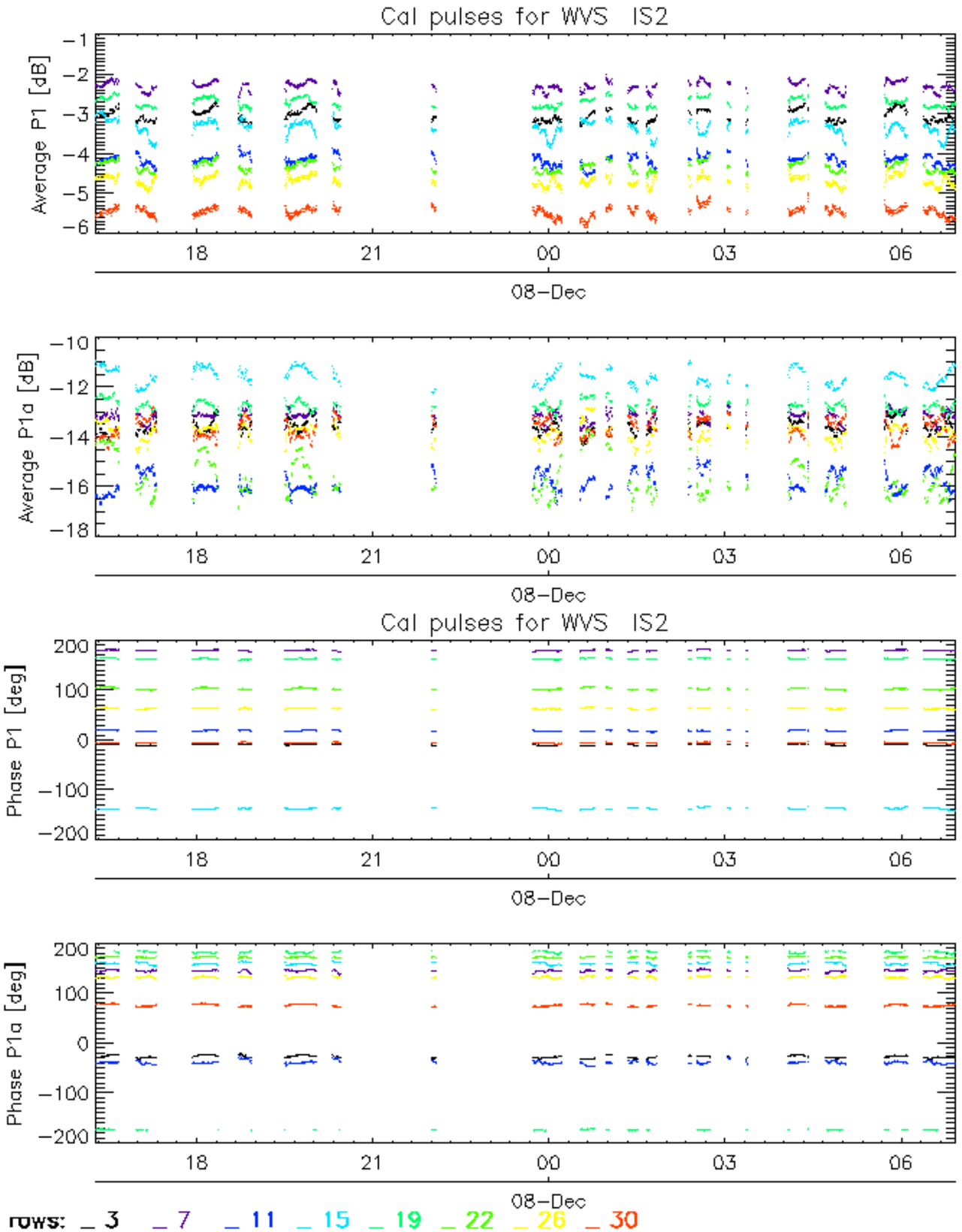
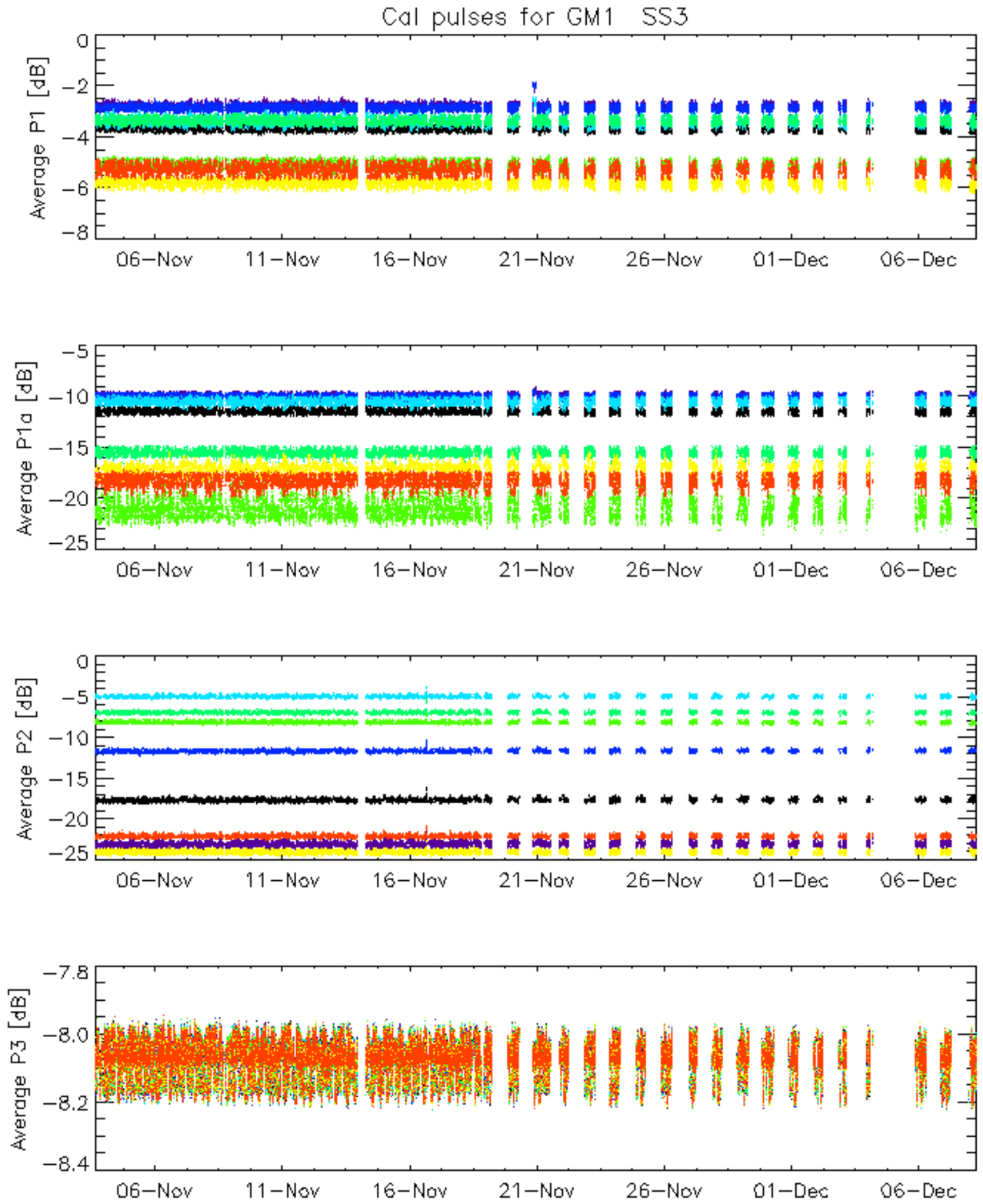
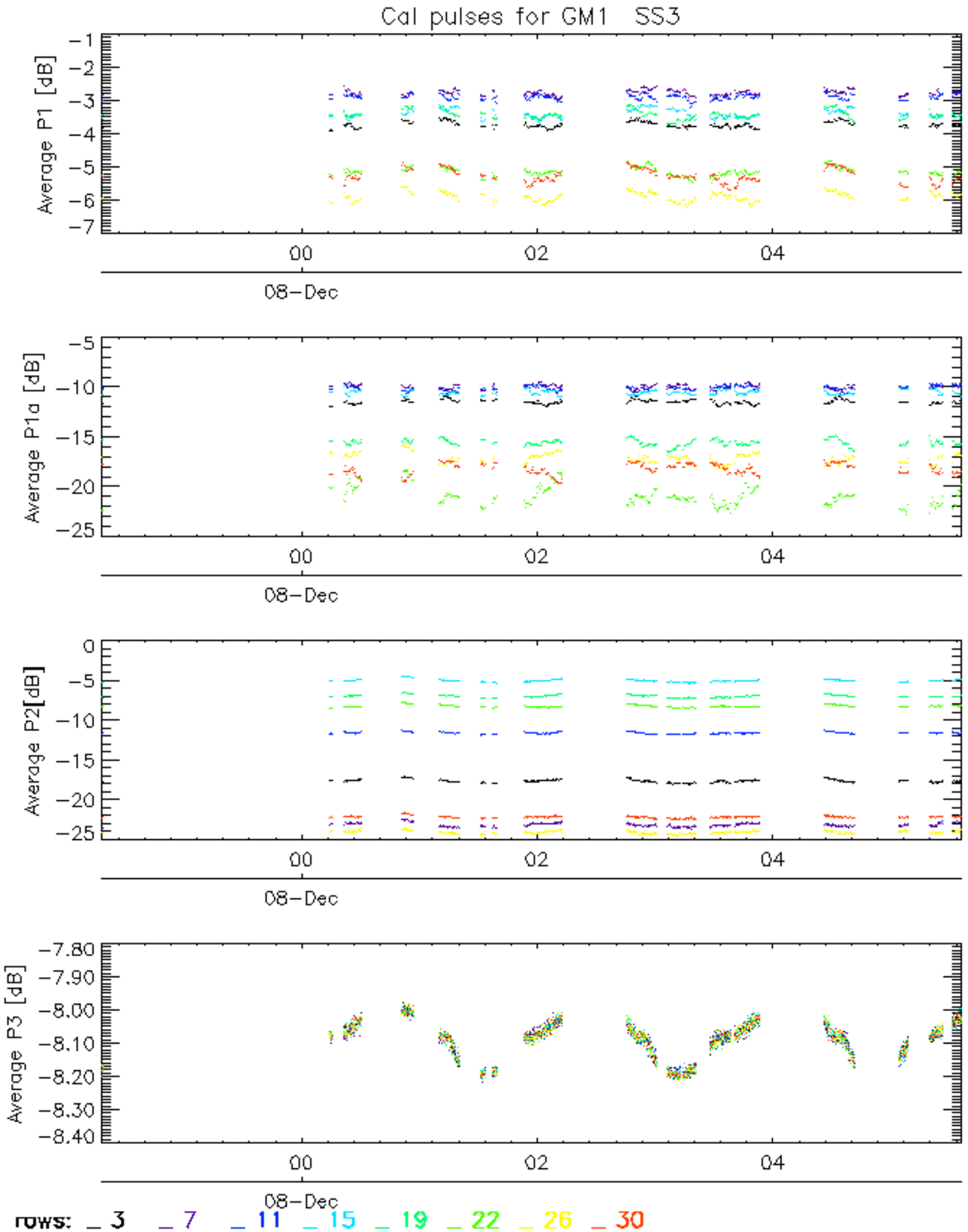
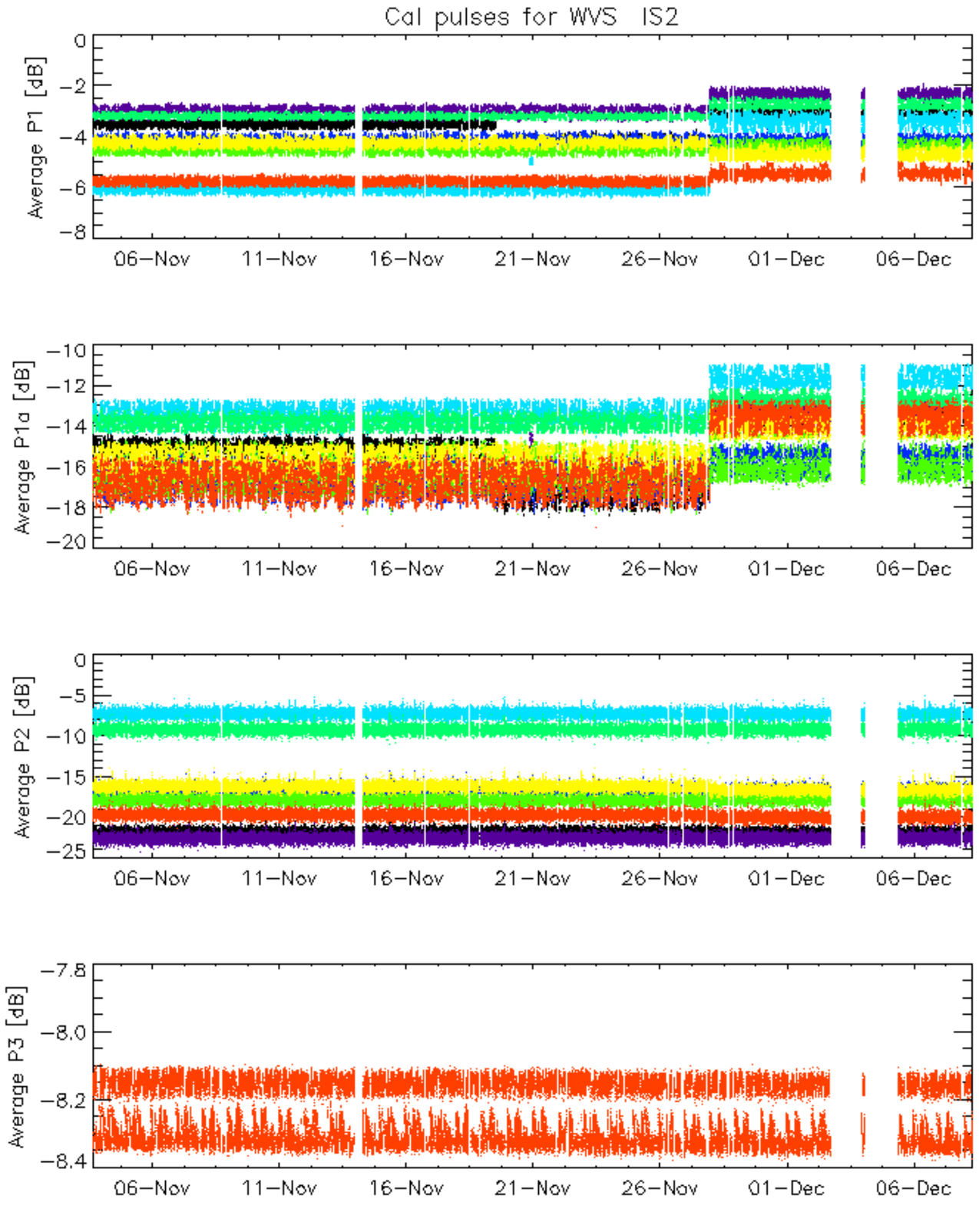
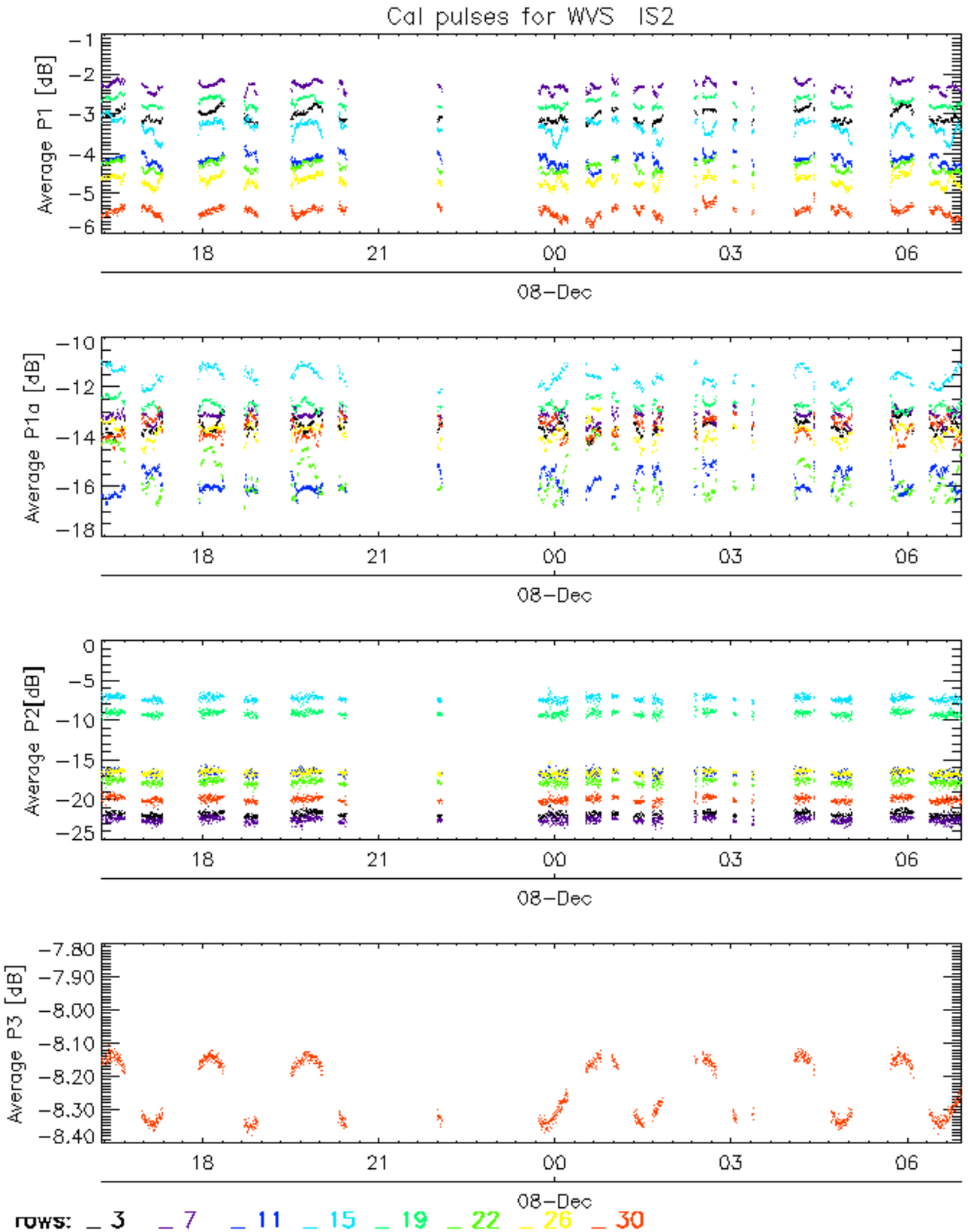

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
00
02
04
08−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
00
02
04
08−Dec
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
00
02
04
08−Dec
Phase P1a [deg]
200
100
0
−100
−200
00
02
04
08−Dec
rows: 3 7 11 15 19 22 26 30


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


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

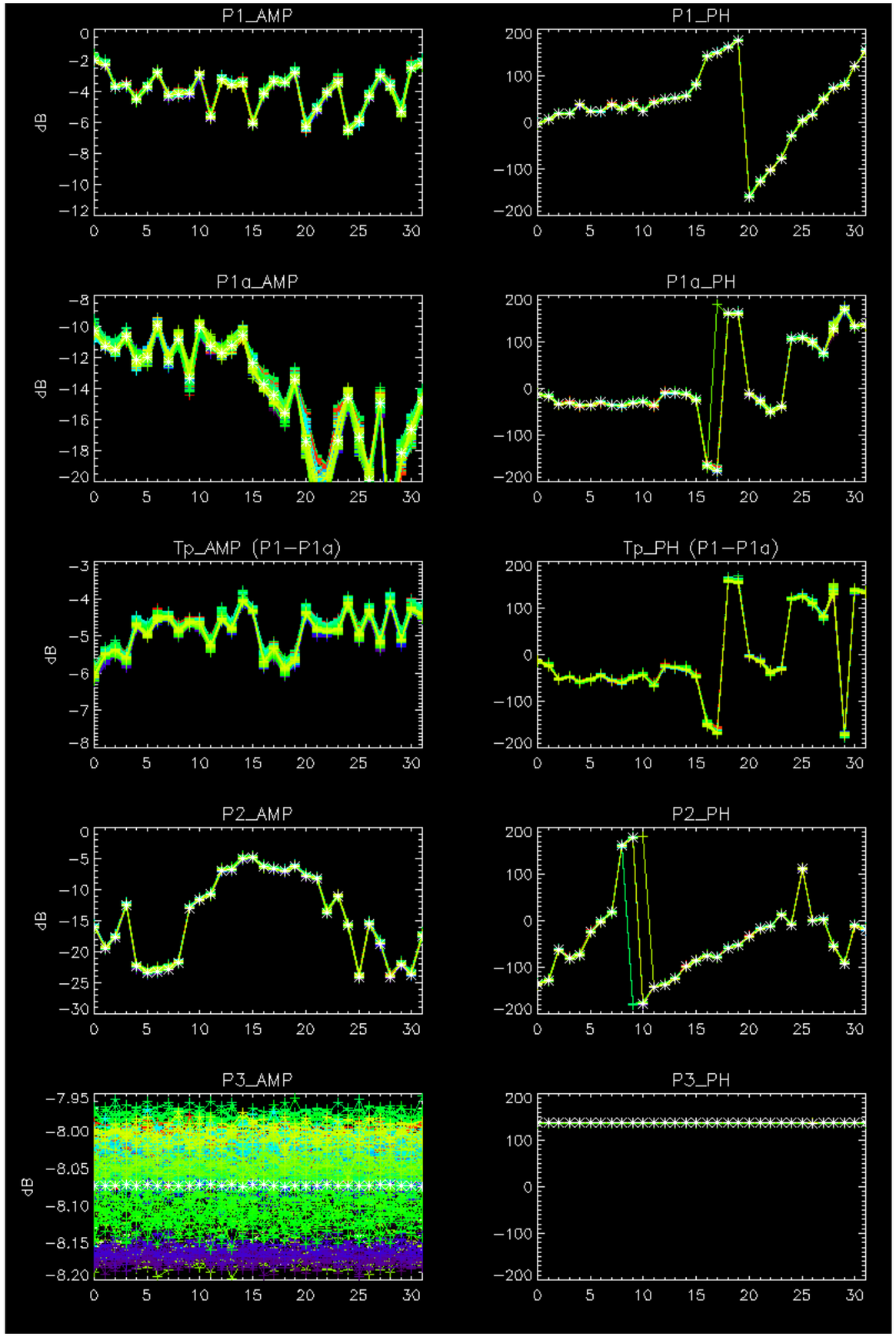

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
00
02
04
08−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
00
02
04
08−Dec
Average P2[dB]
0
−5
−10
−15
−20
−25
00
02
04
08−Dec
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
00
02
04
08−Dec
rows: 3 7 11 15 19 22 26 30

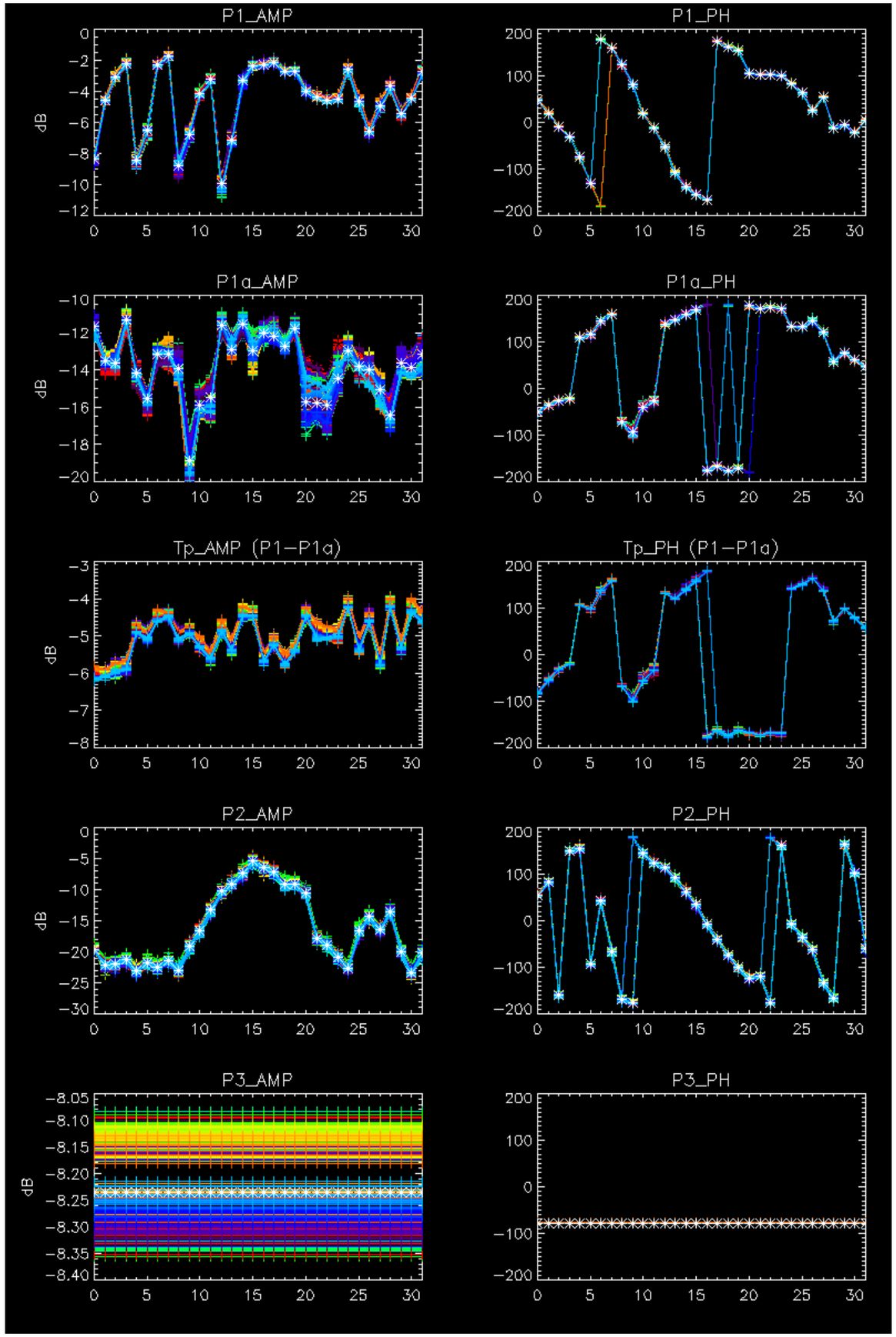

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
06−Nov
11−Nov
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

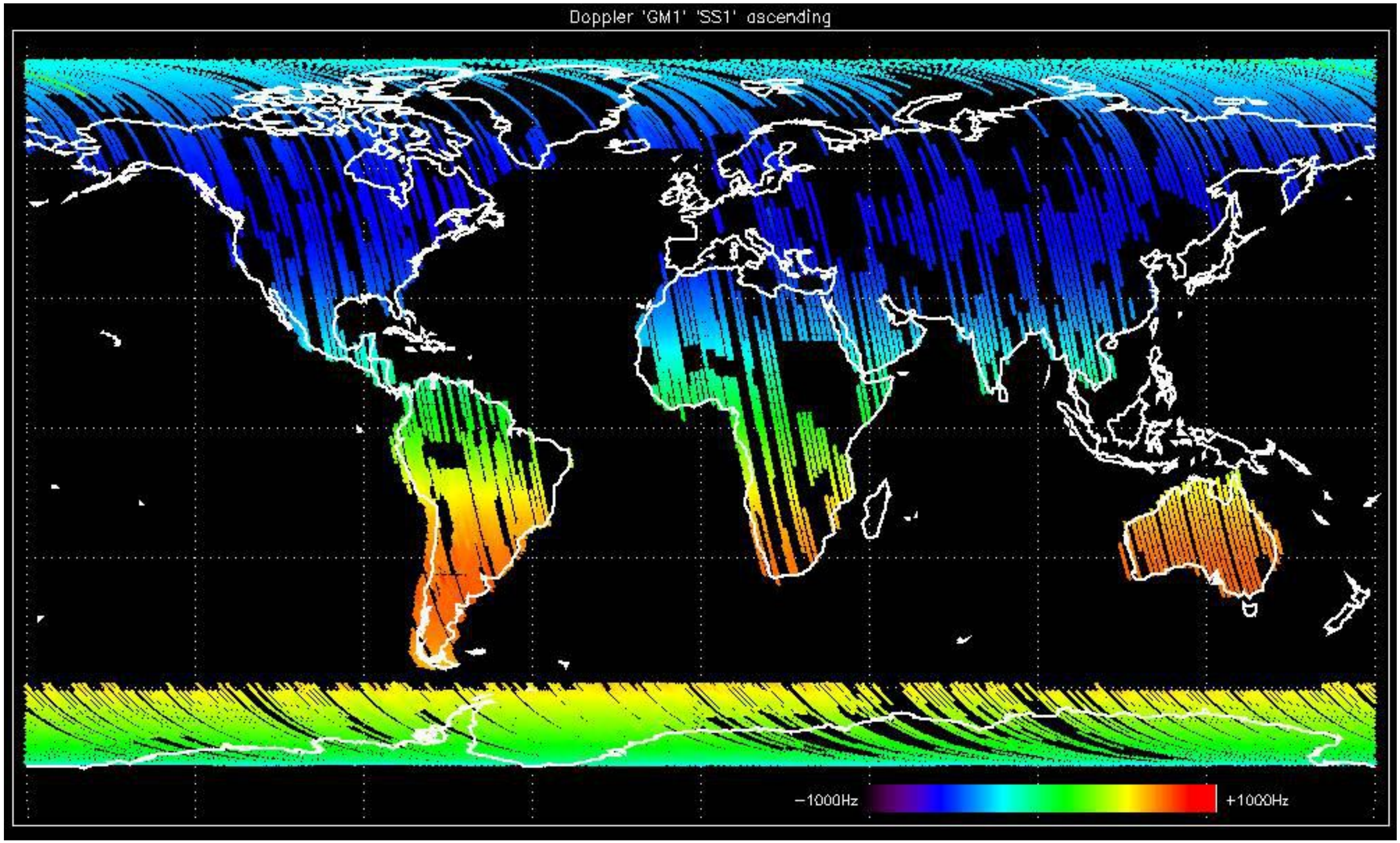
No anomalies observed.

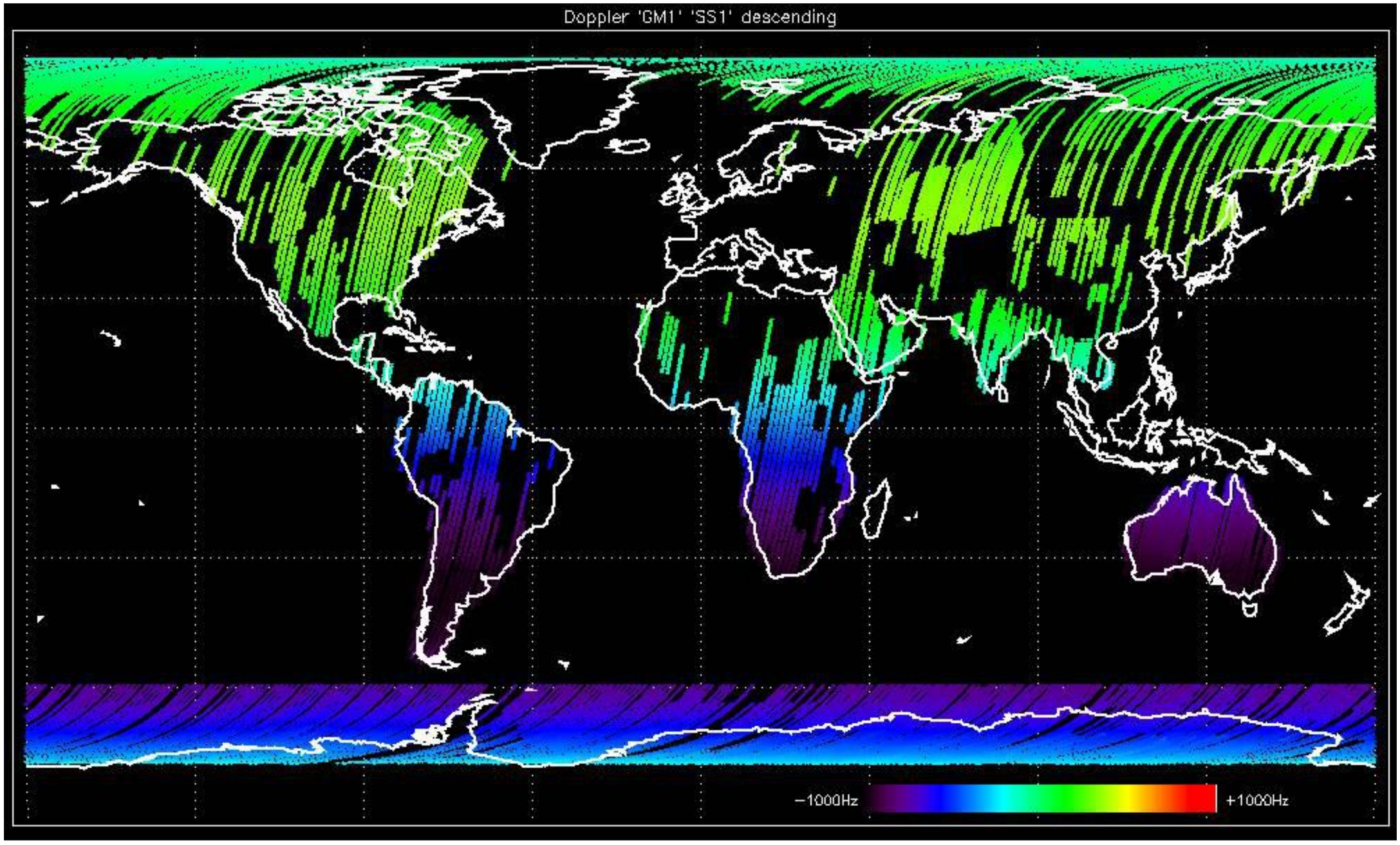

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

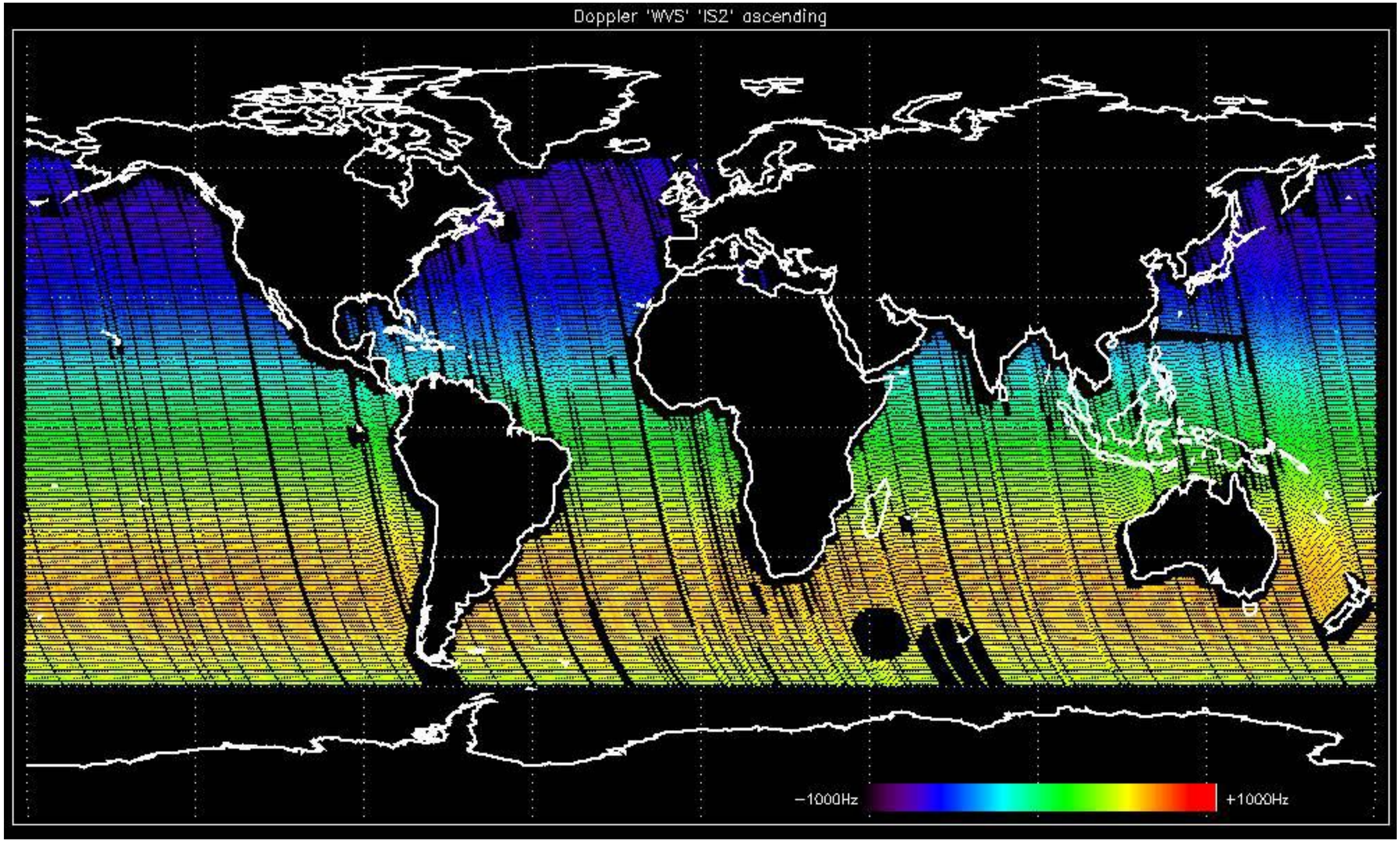

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

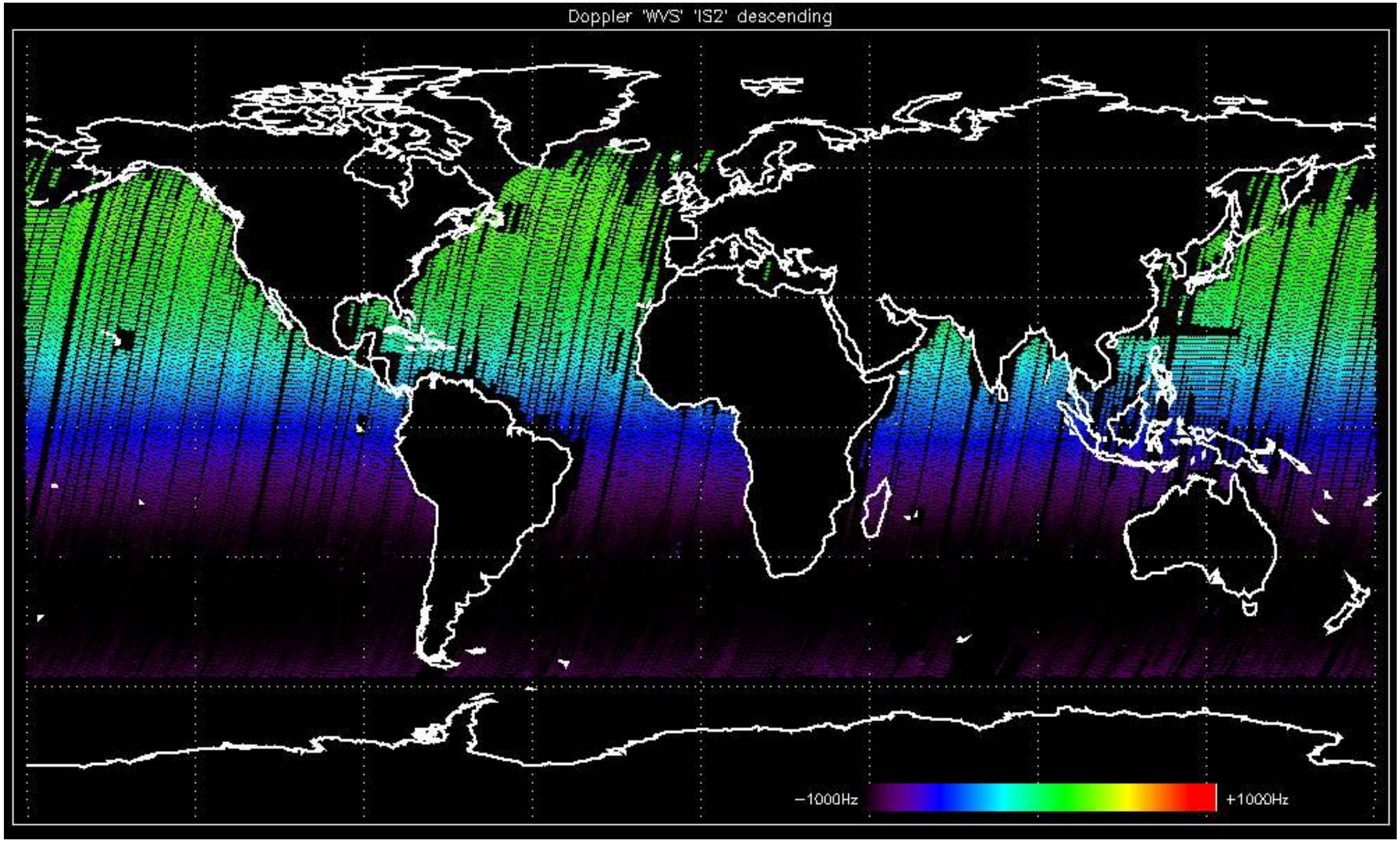
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

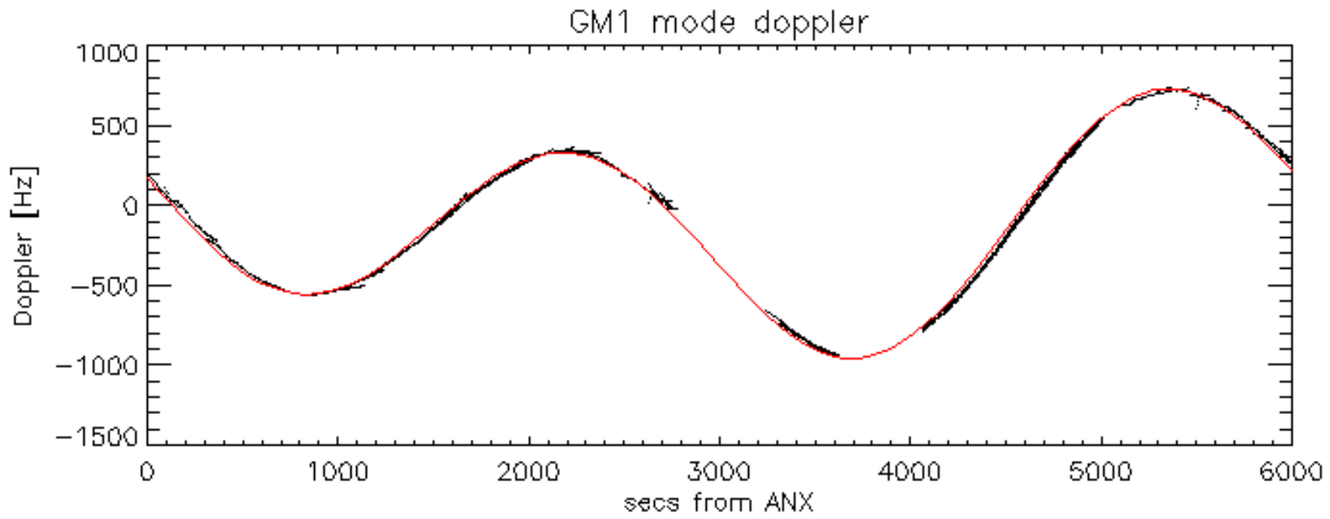
Preliminary report.The data is not yet controled

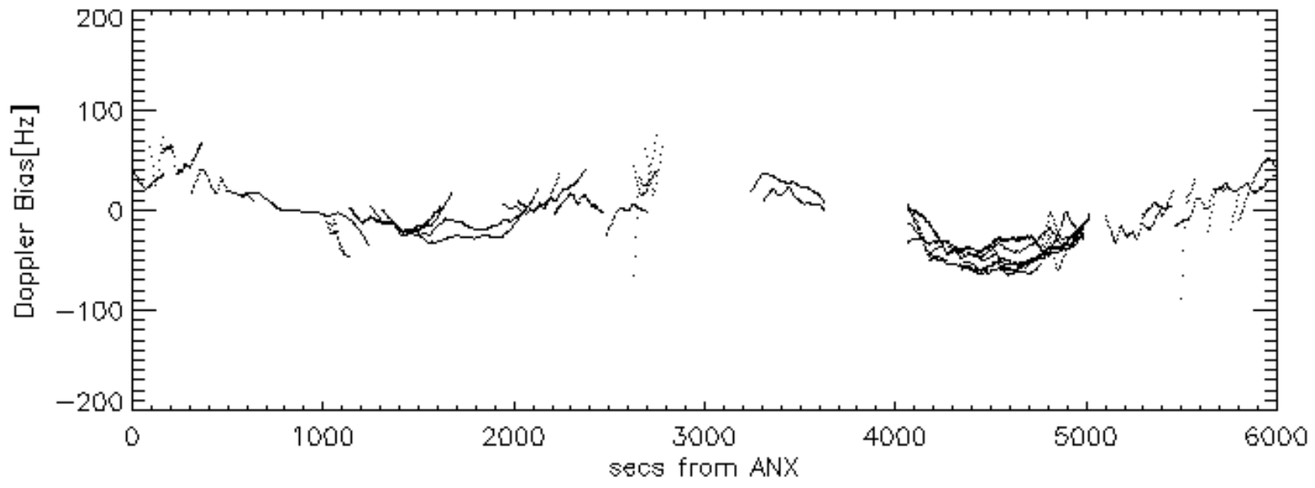

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

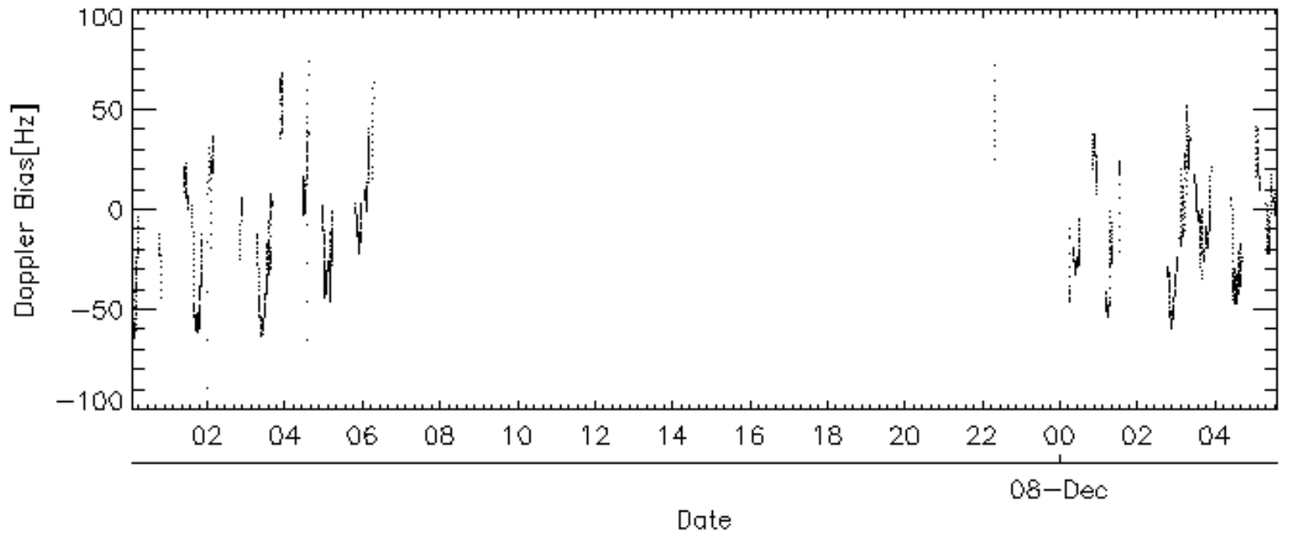

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

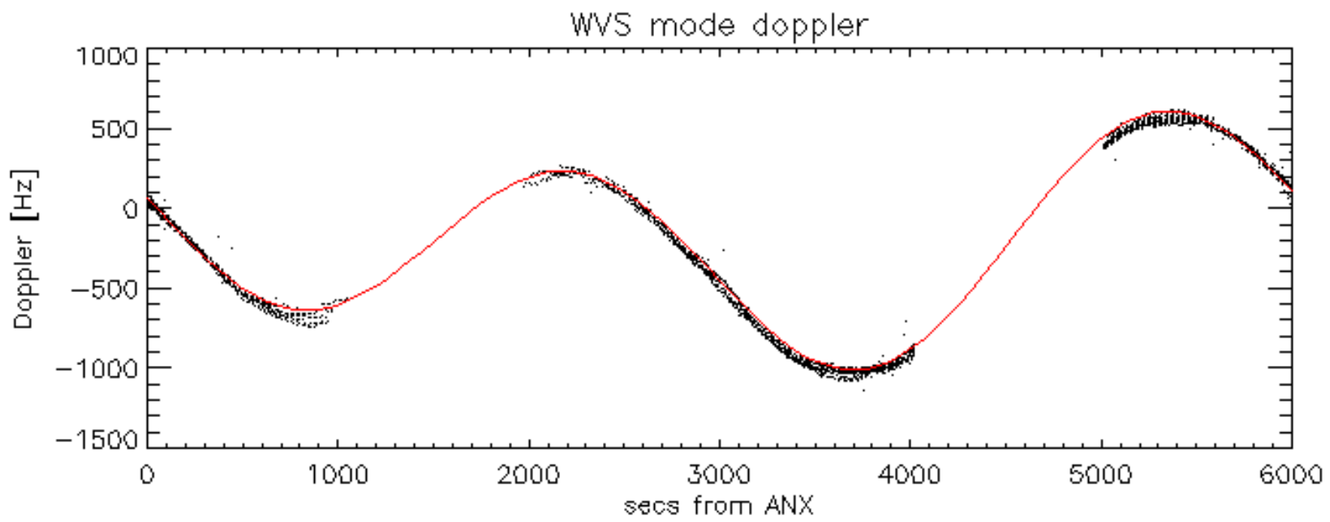

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

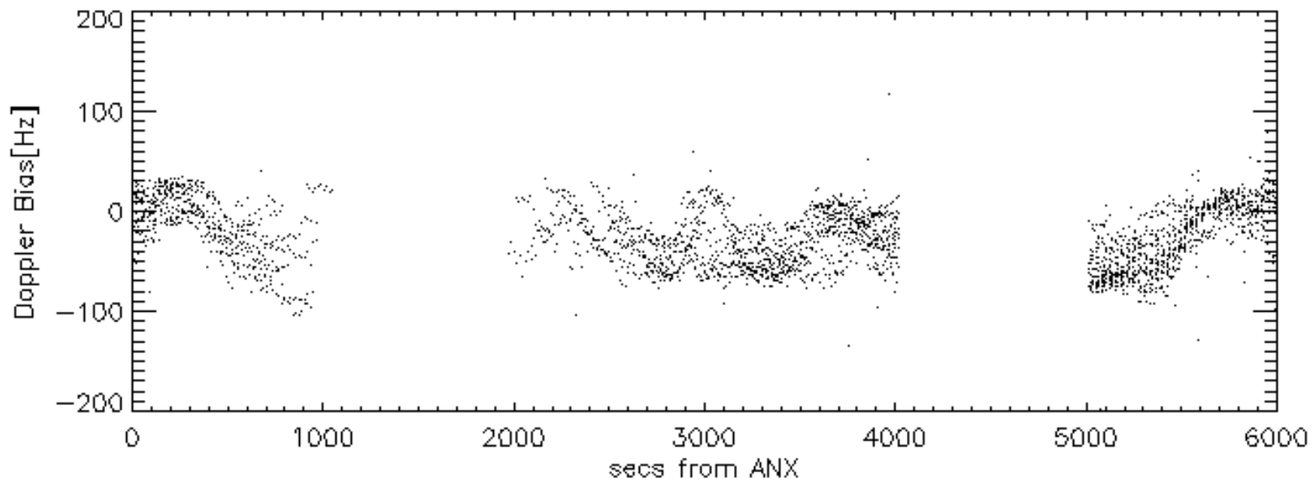

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

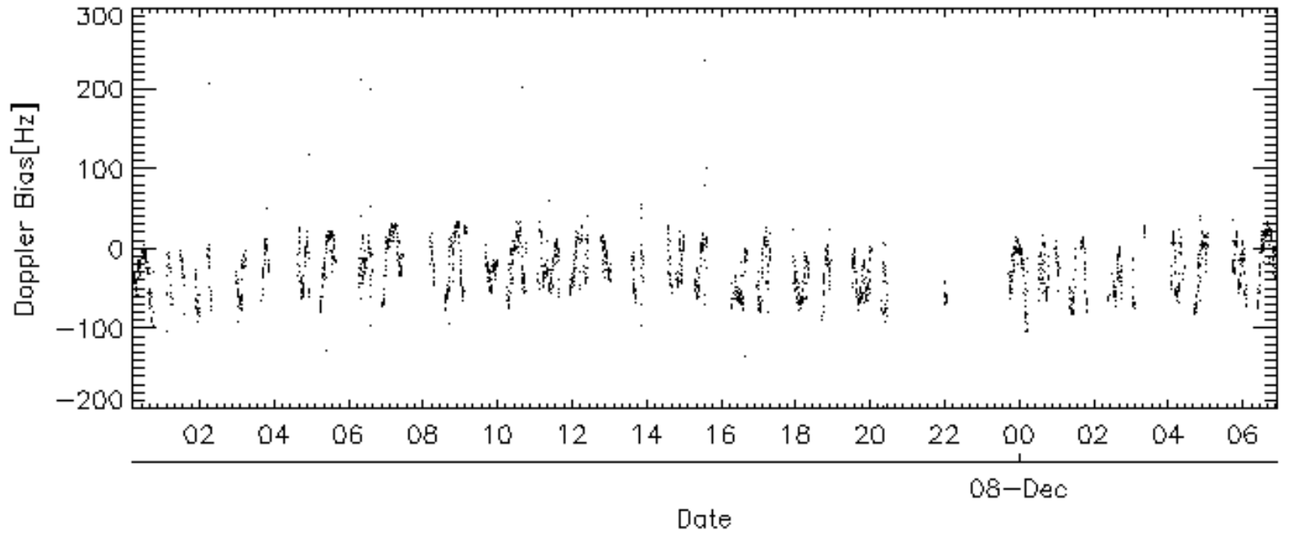

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

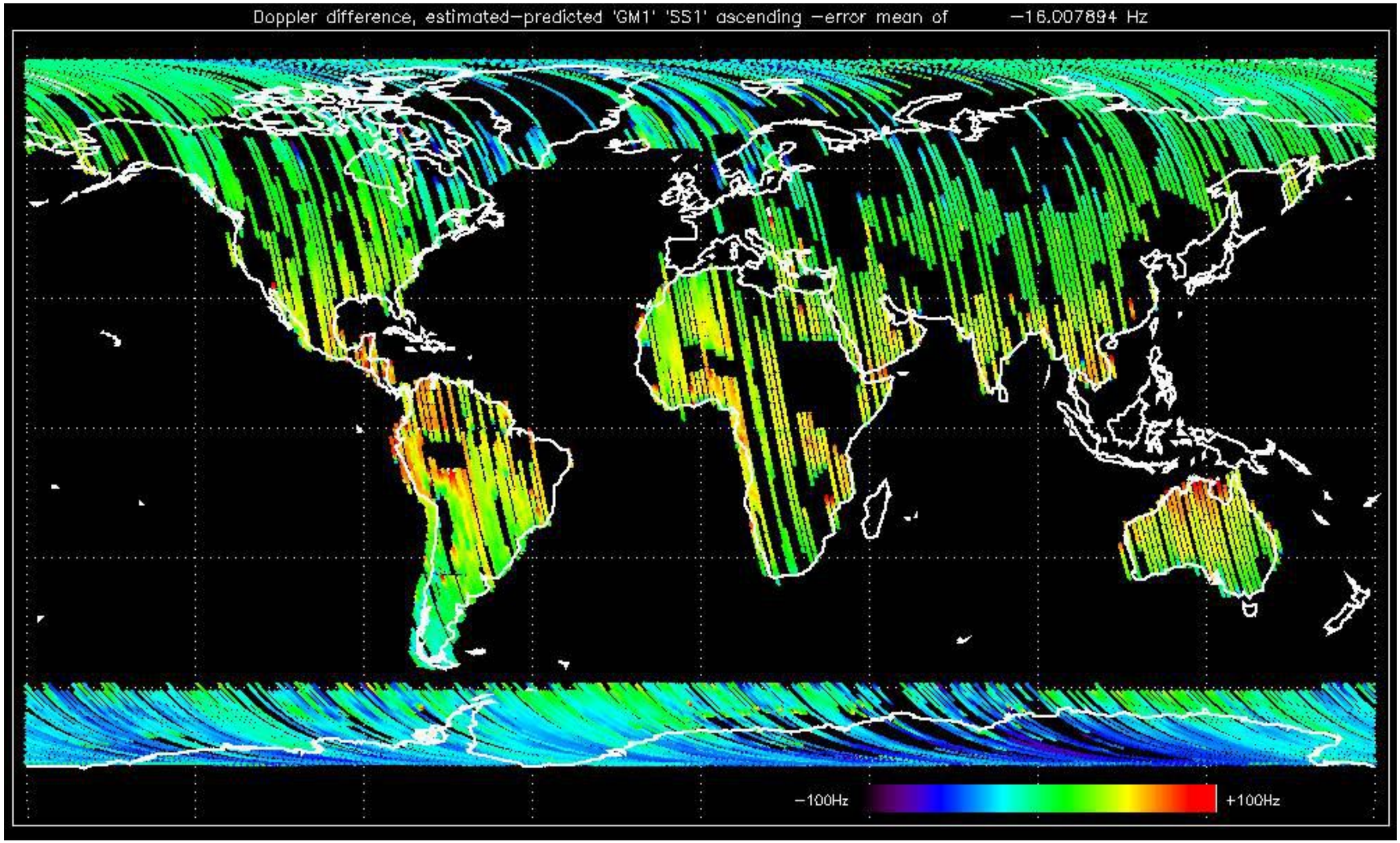

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

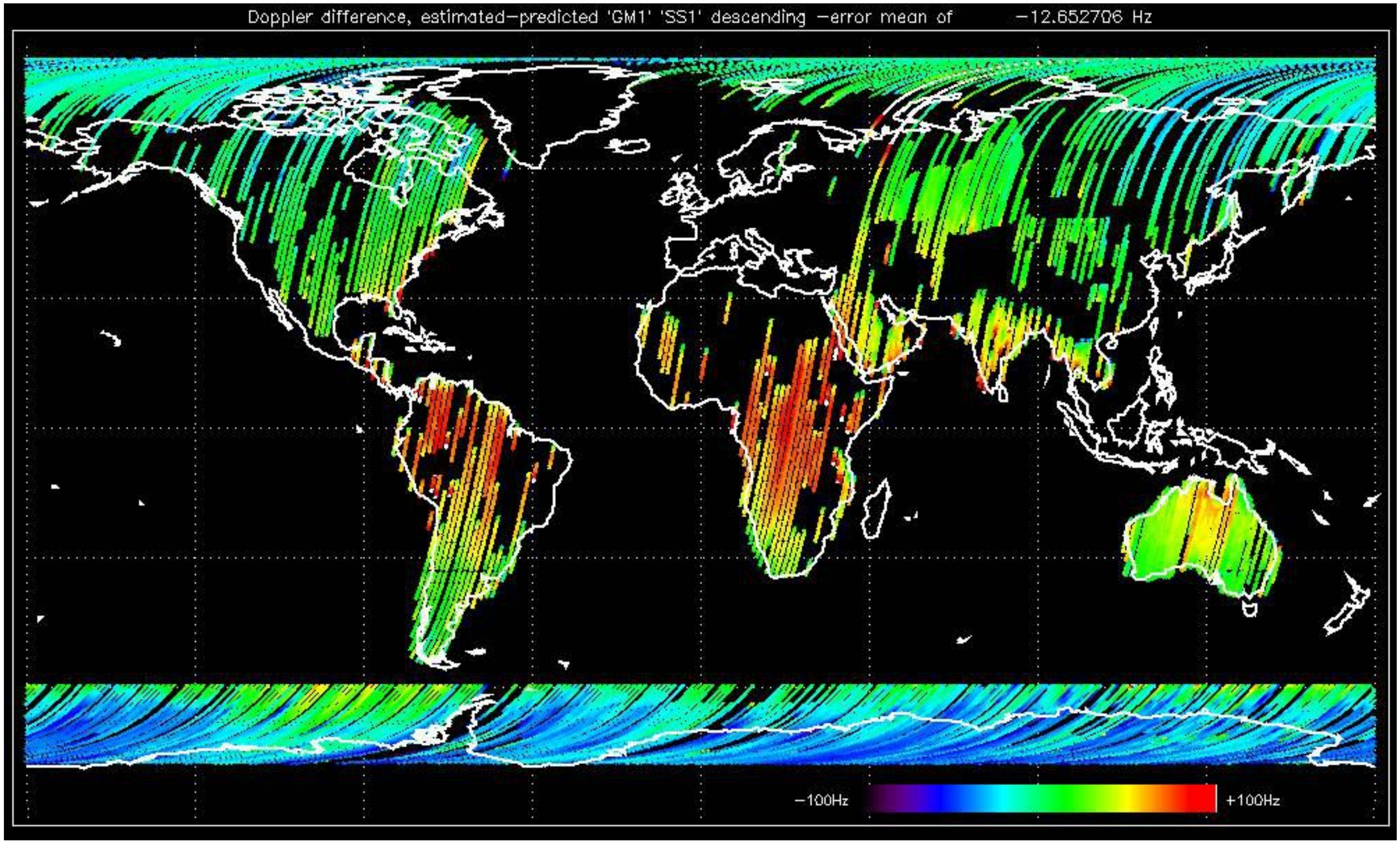

Doppler Bias[Hz]
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
00
02
04
08−Dec
Date

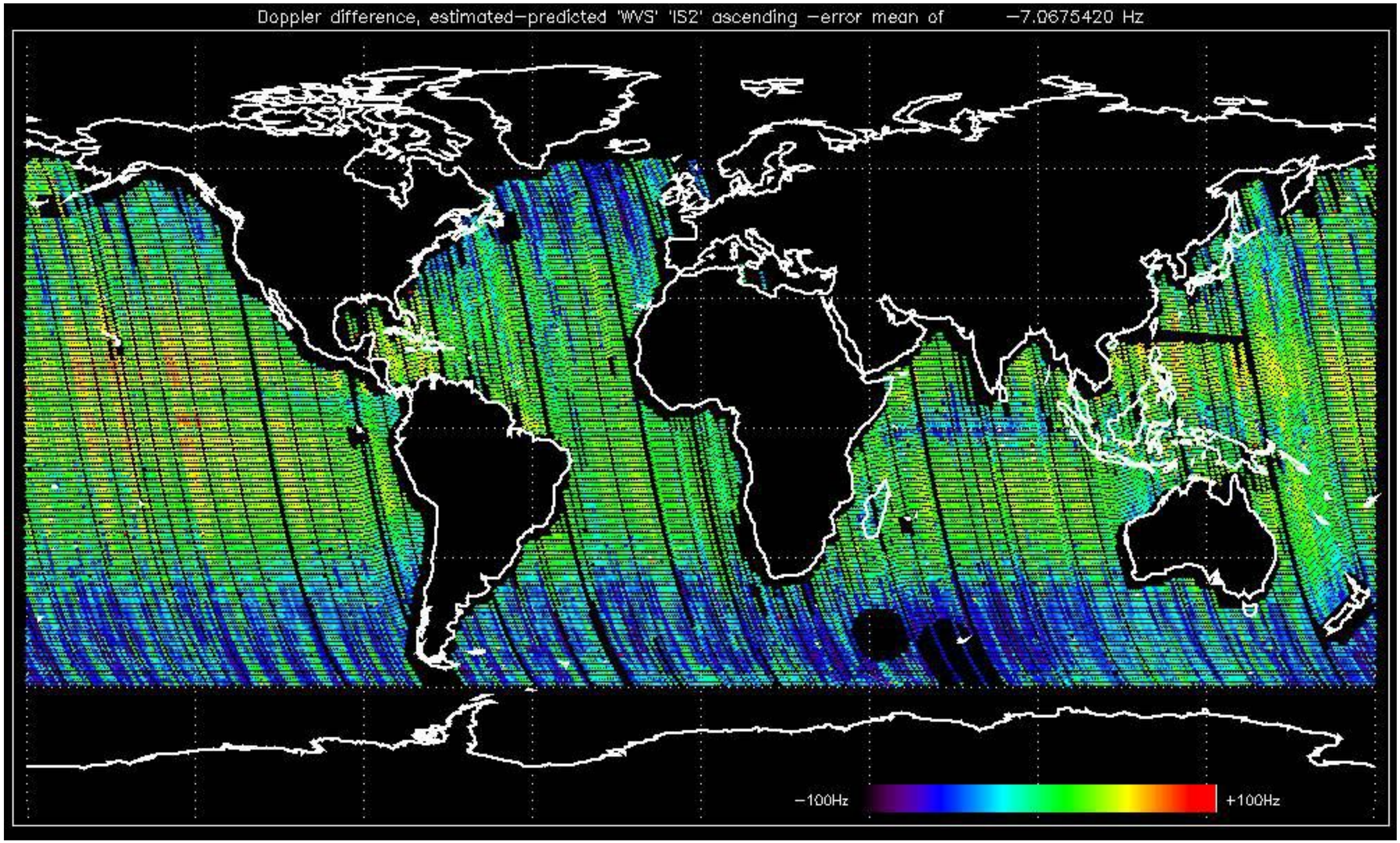

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

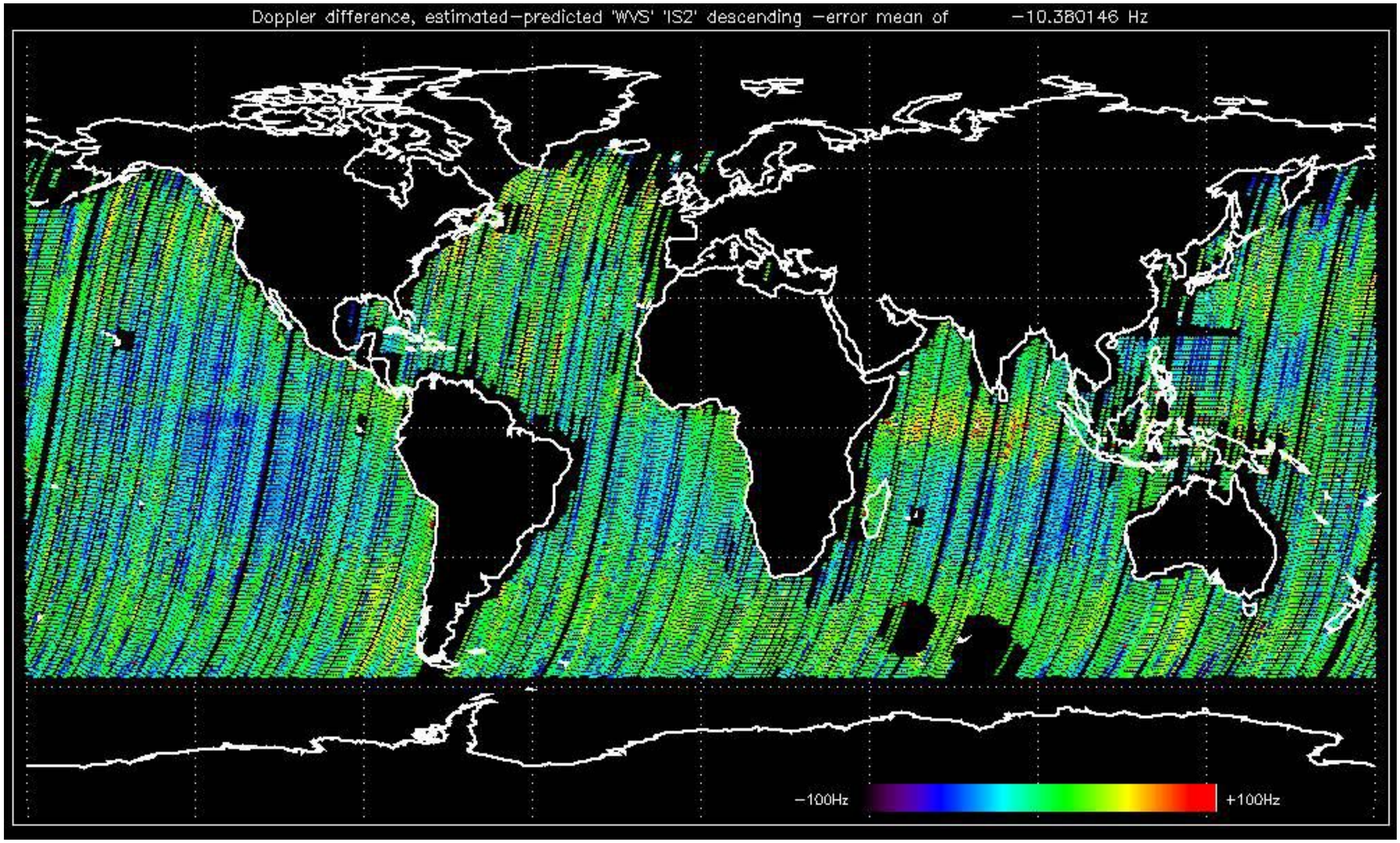

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −16.007894 Hz
−100Hz
+100Hz

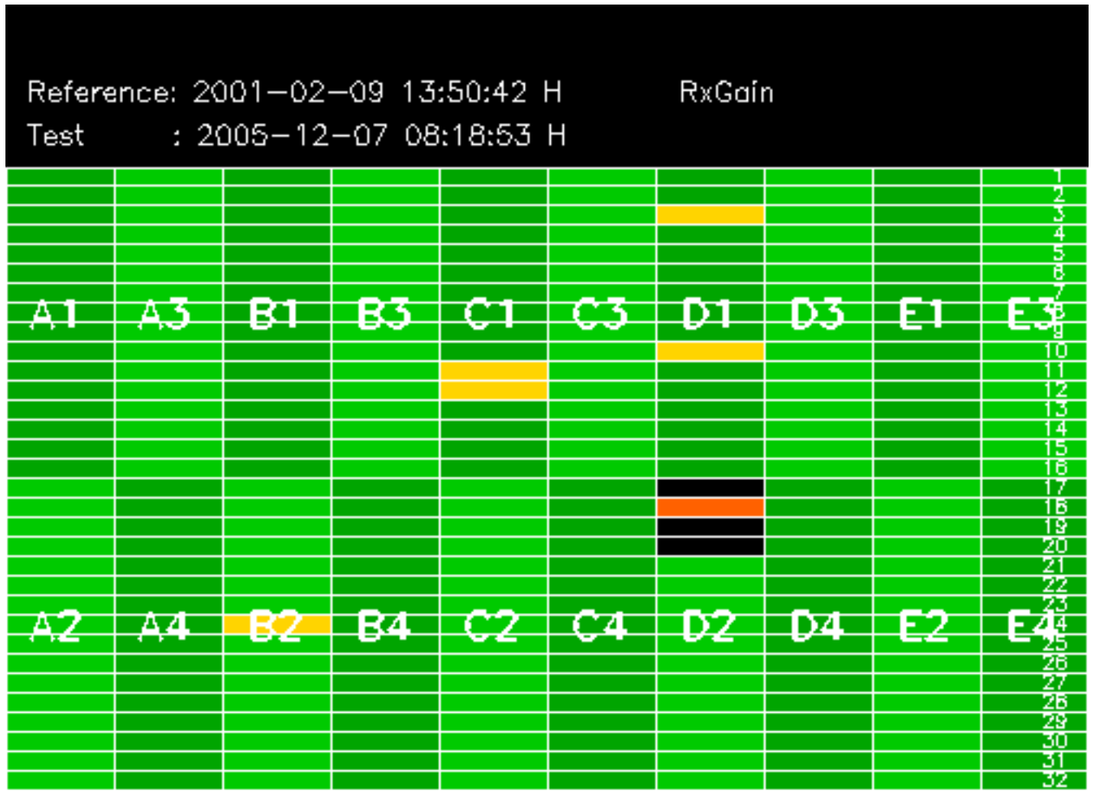

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −12.652706 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −7.0675420 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.380146 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2005-12-07 08:18:53 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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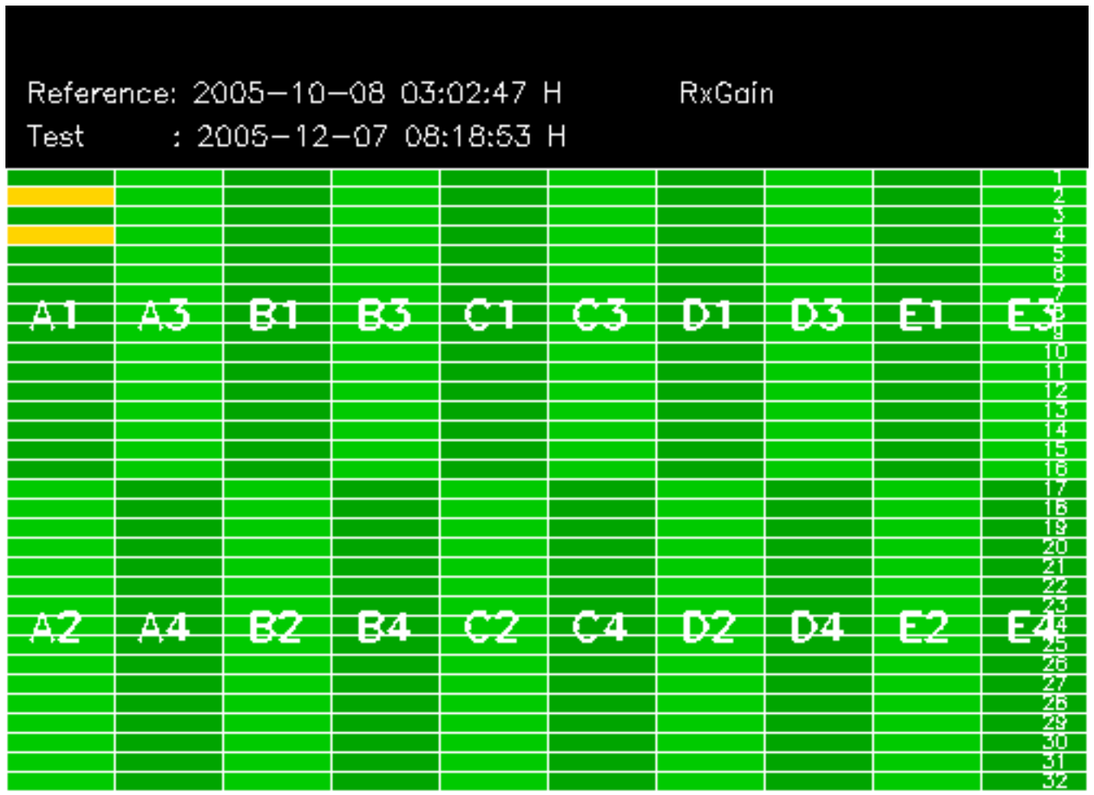
Reference: 2005-10-08 03:02:47 H
Test : 2005-12-07 08:18:53 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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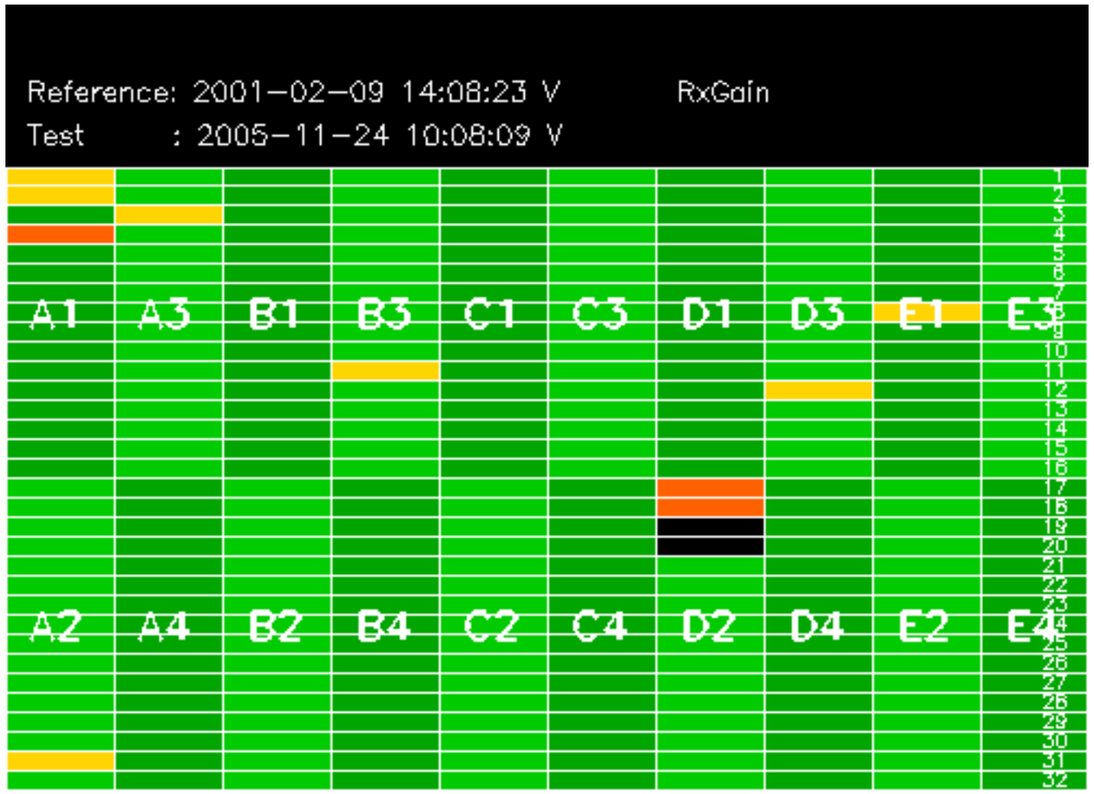
Reference: 2001-02-09 14:08:23 V
Test : 2005-11-24 10:08:09 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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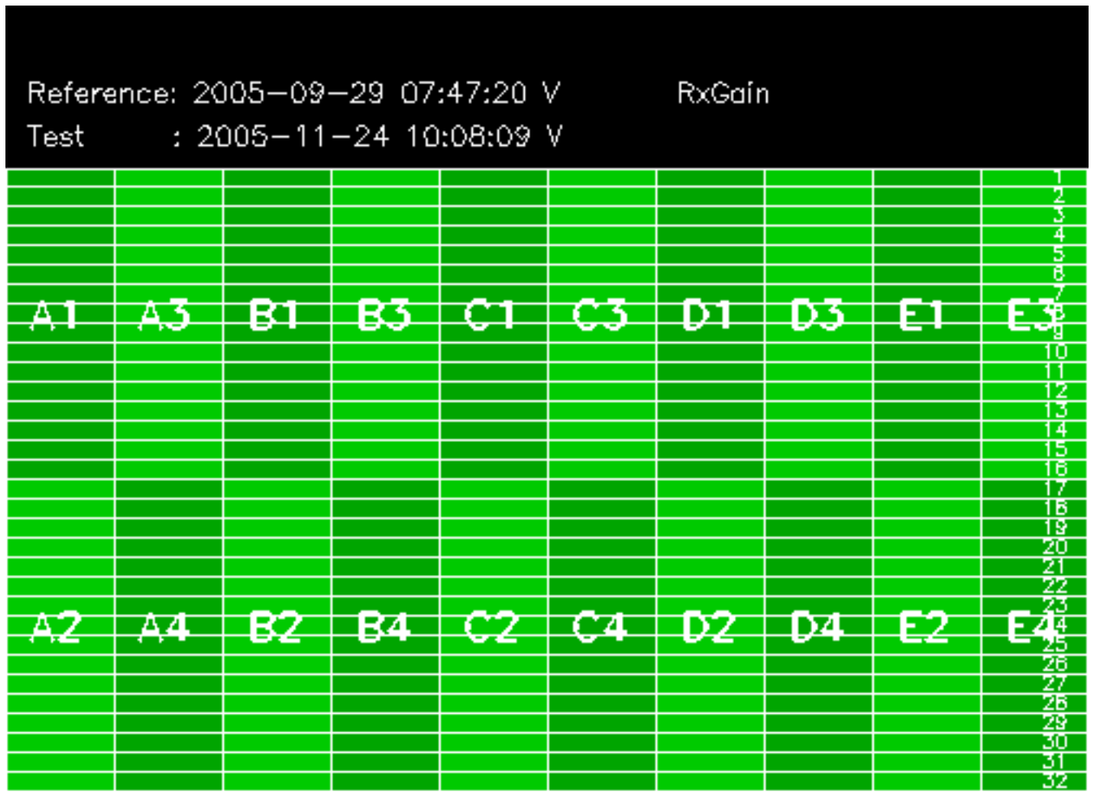
Reference: 2005-09-29 07:47:20 V
Test : 2005-11-24 10:08:09 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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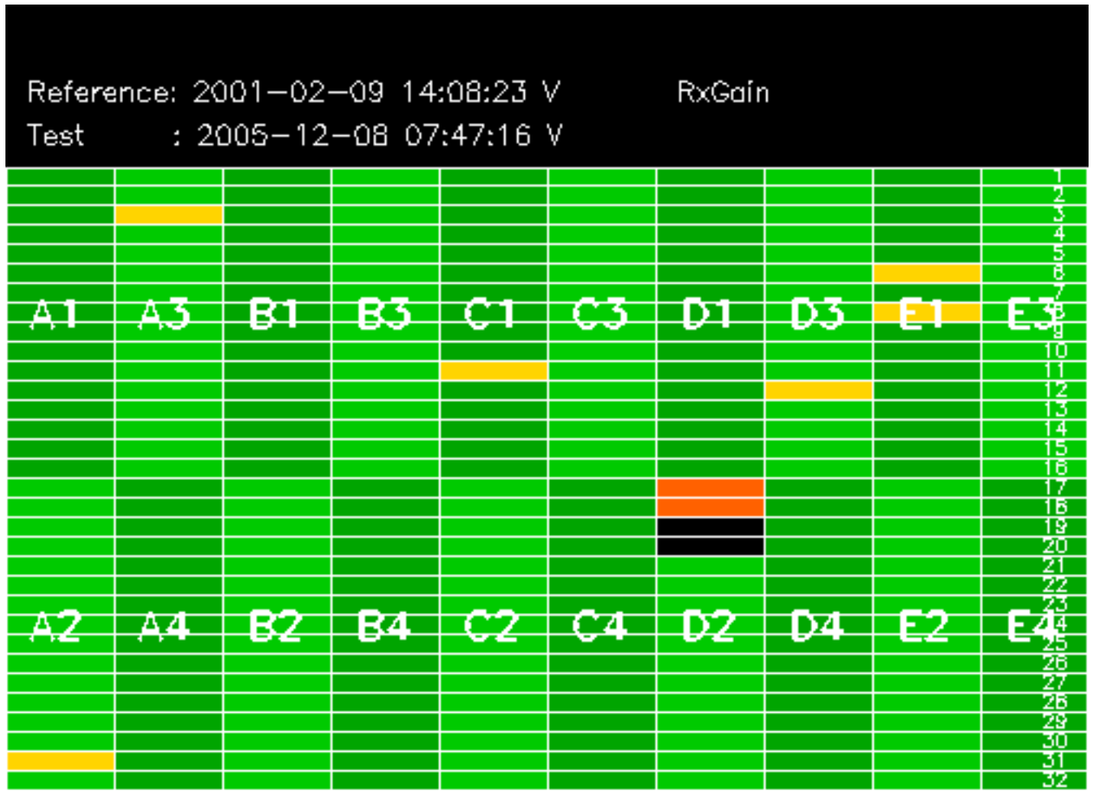
Reference: 2001-02-09 14:08:23 V
Test : 2005-12-08 07:47:16 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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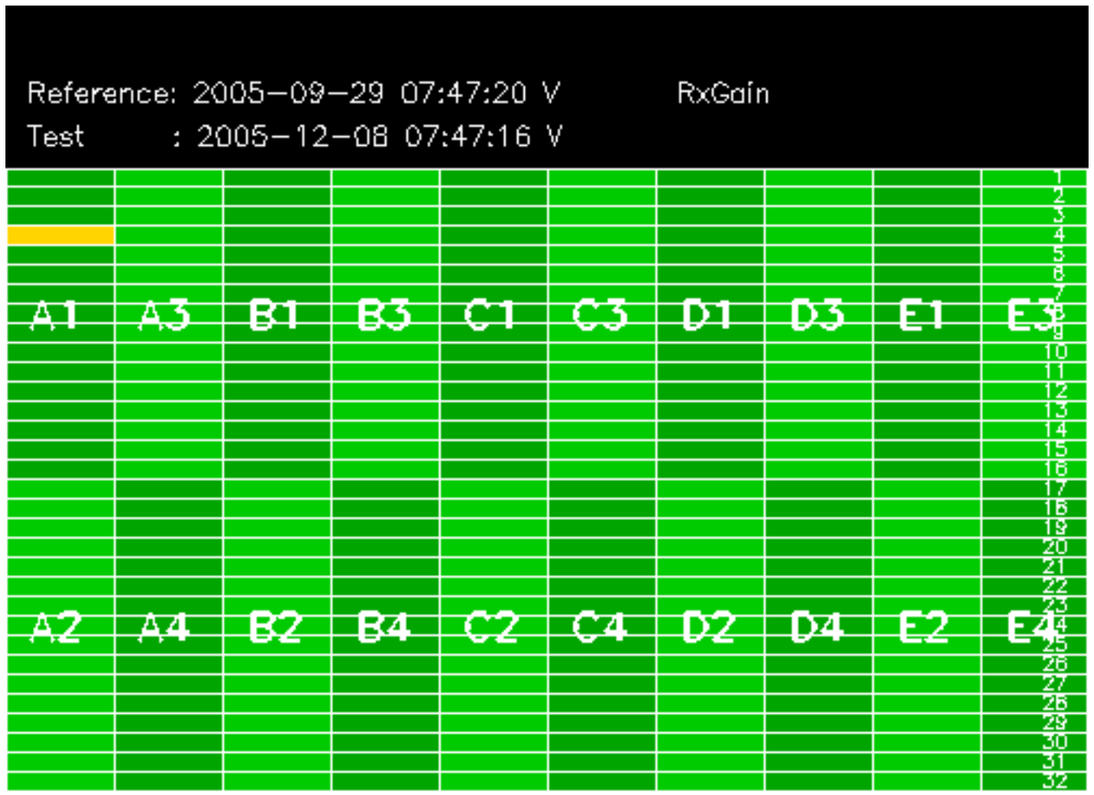
Reference: 2005-09-29 07:47:20 V
Test : 2005-12-08 07:47:16 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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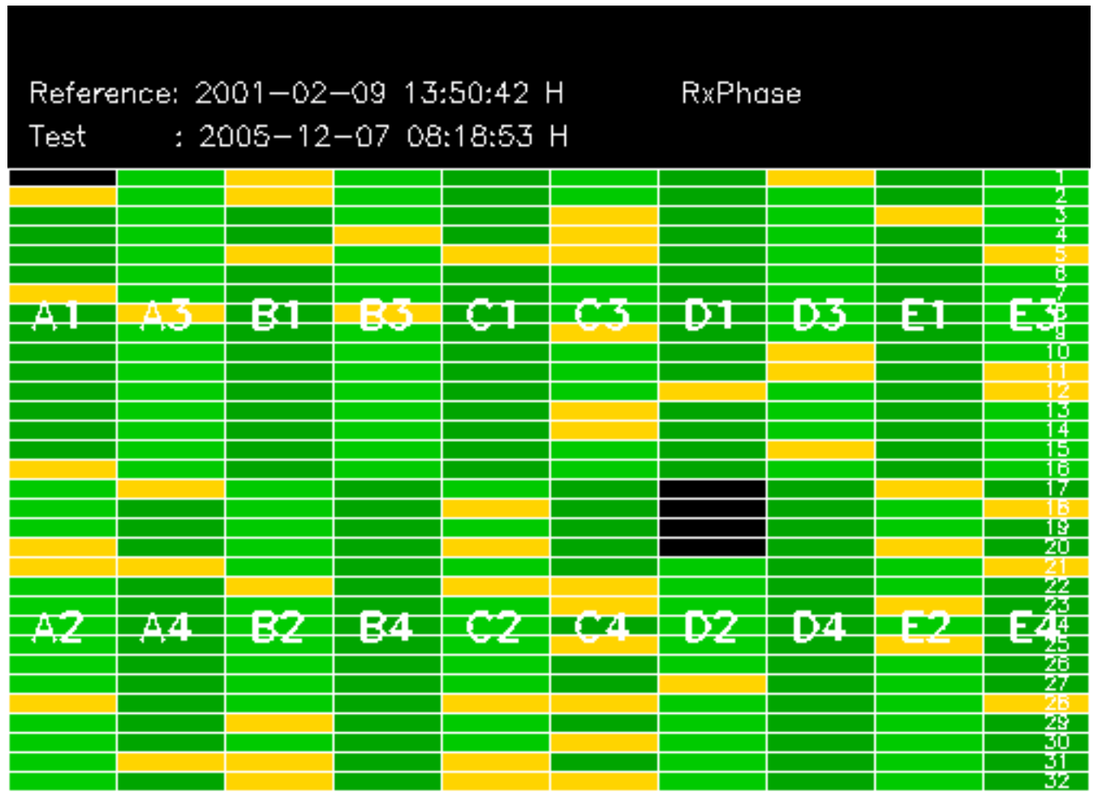
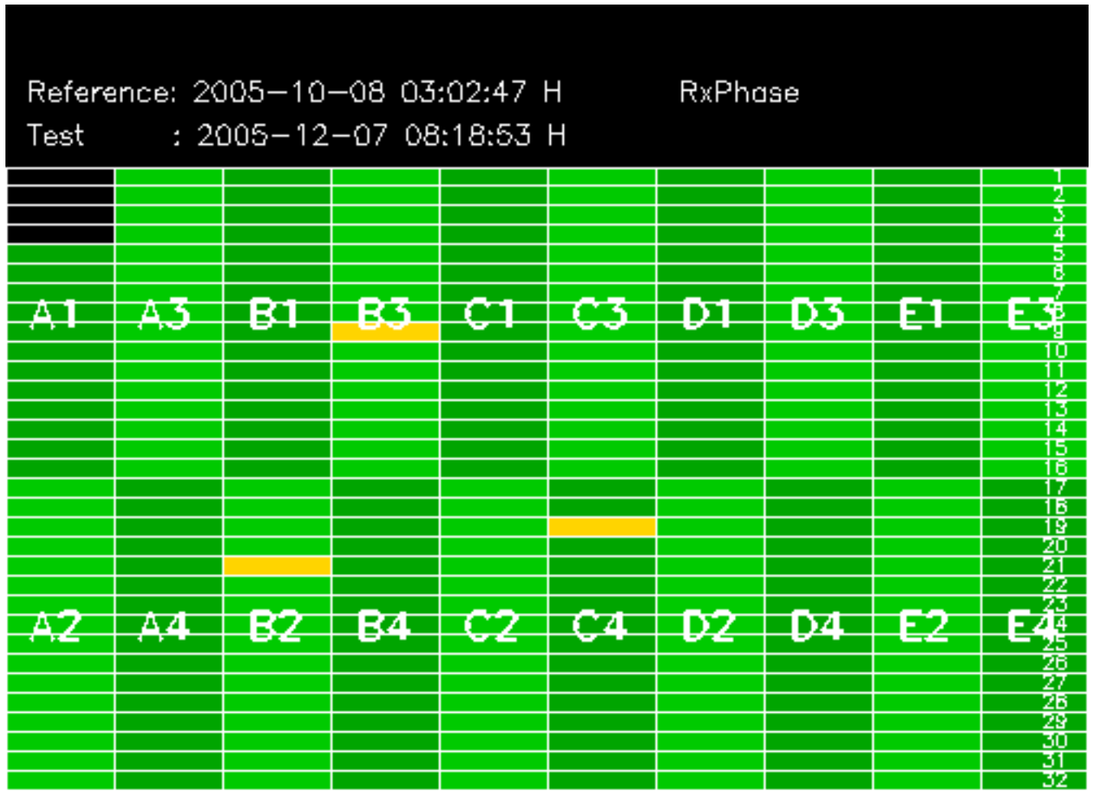

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2005-12-07 08:18:53 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2005-12-07 08:18:53 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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E4
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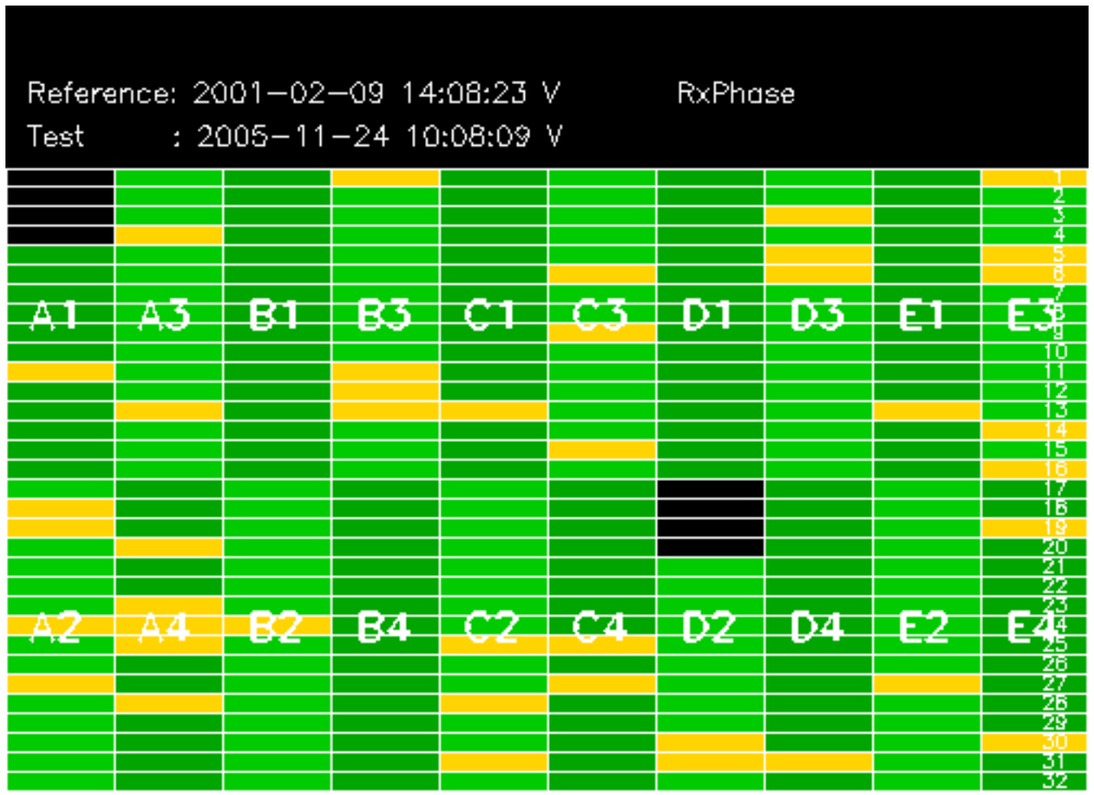
Reference: 2001-02-09 14:08:23 V
Test : 2005-11-24 10:08:09 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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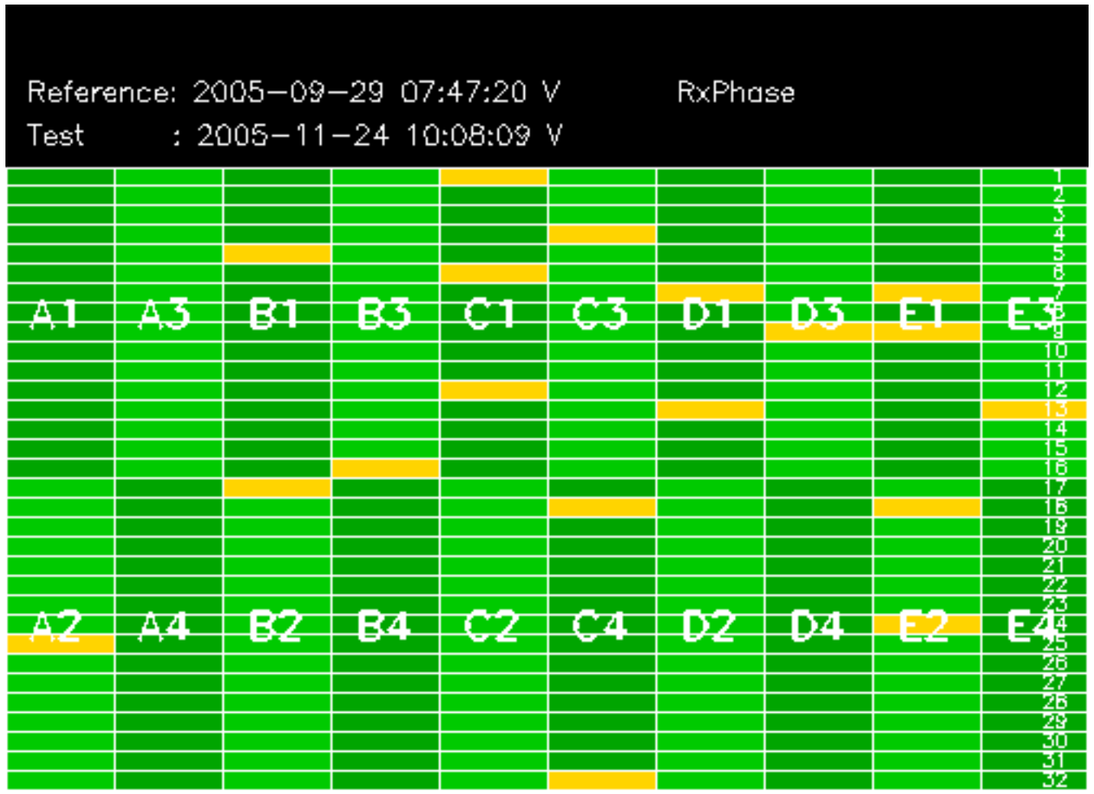
Reference: 2005-09-29 07:47:20 V
Test : 2005-11-24 10:08:09 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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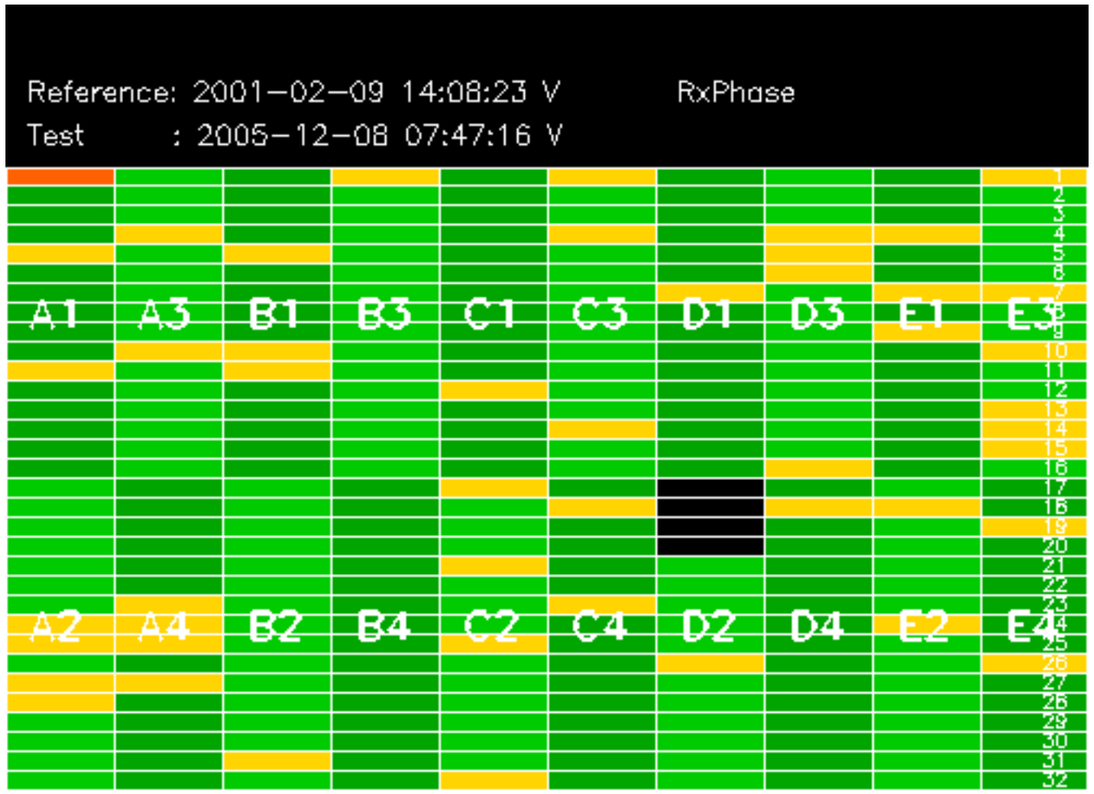
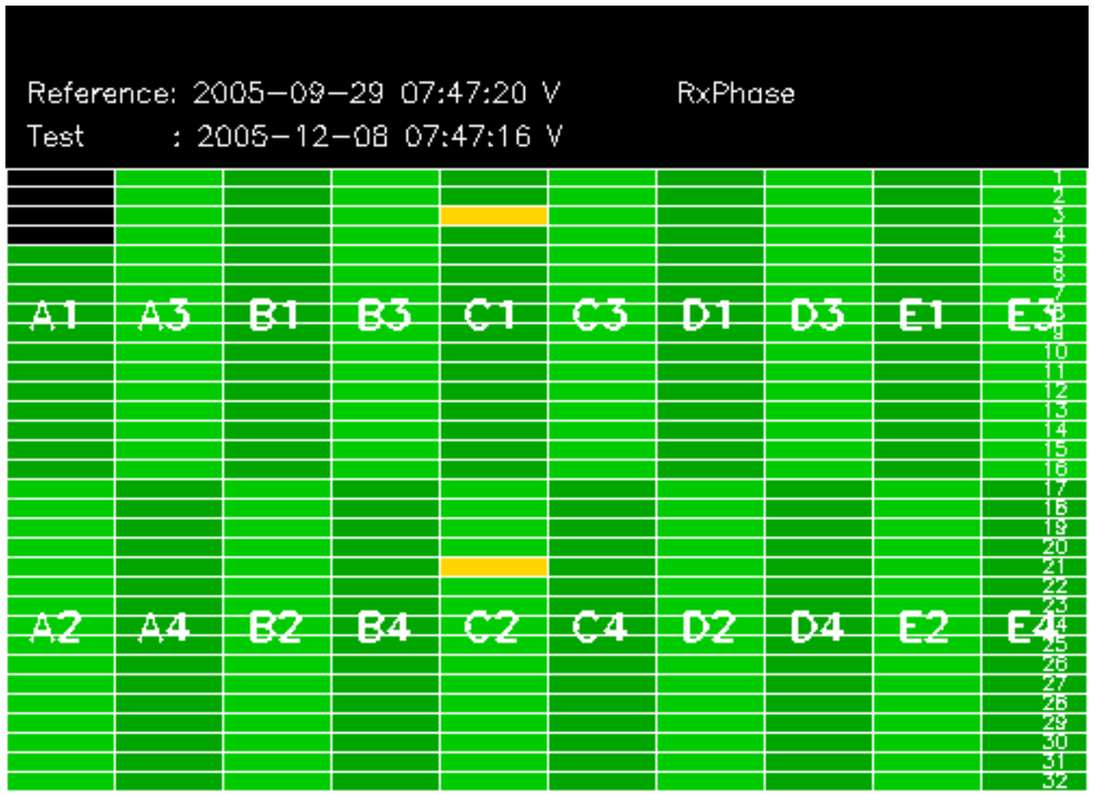

Reference: 2001-02-09 14:08:23 V
Test : 2005-12-08 07:47:16 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2005-12-08 07:47:16 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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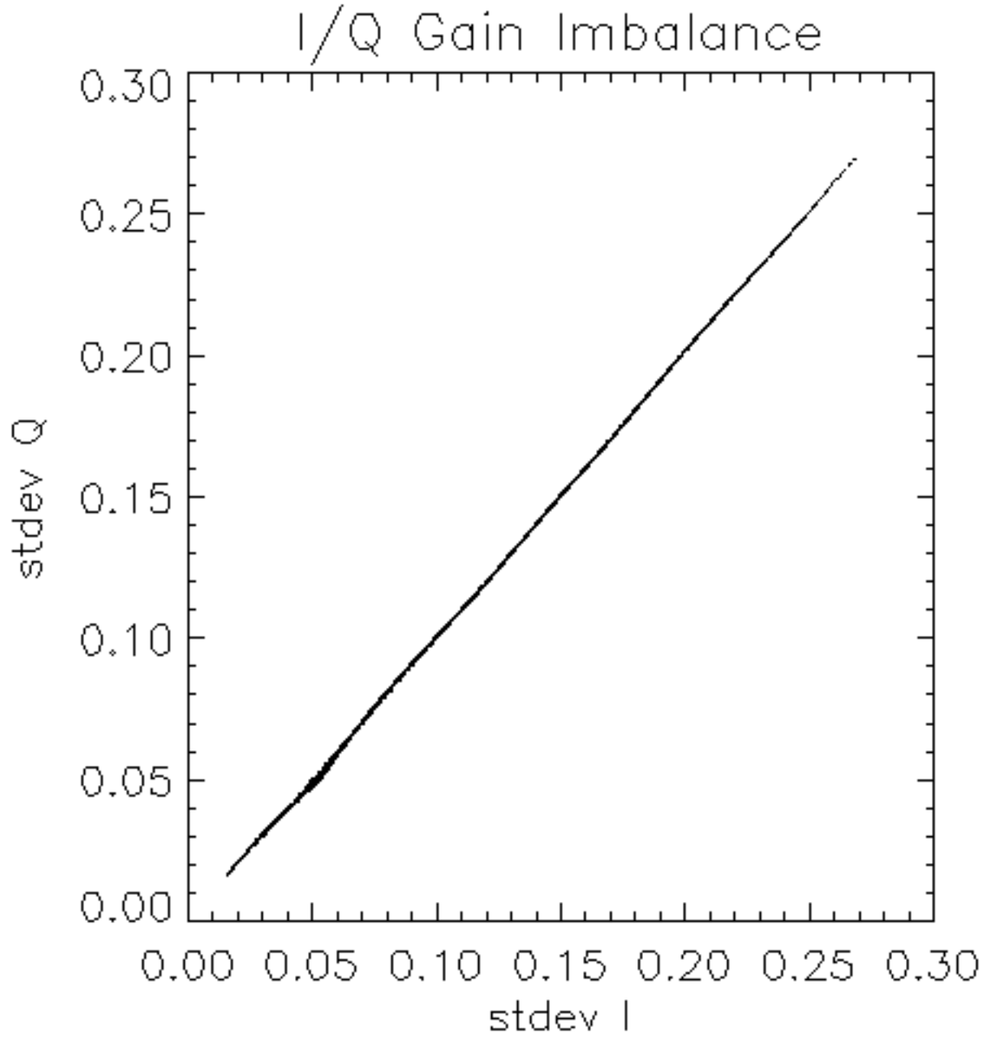
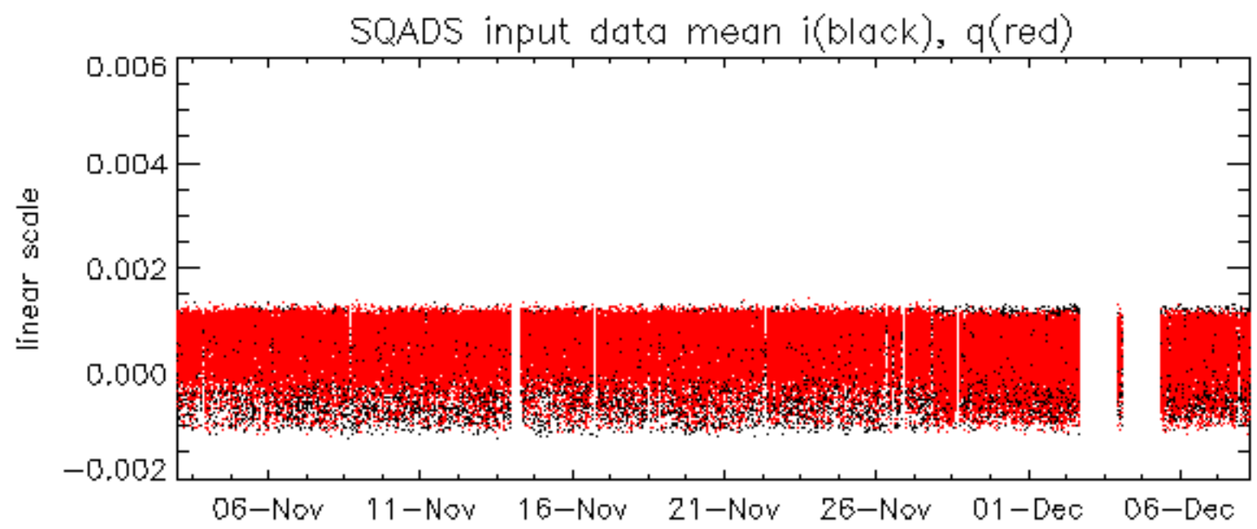
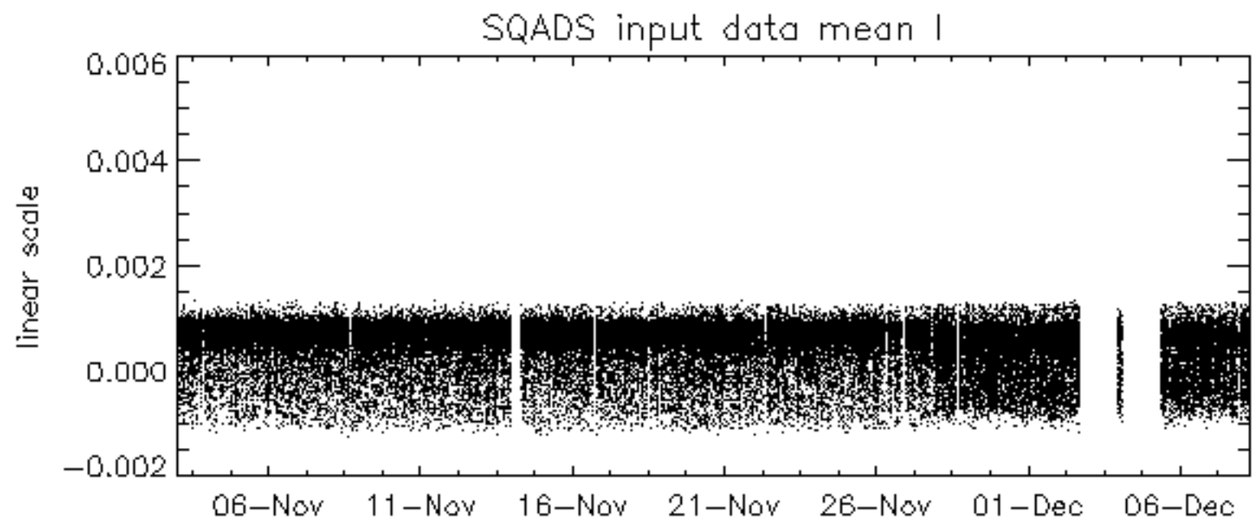
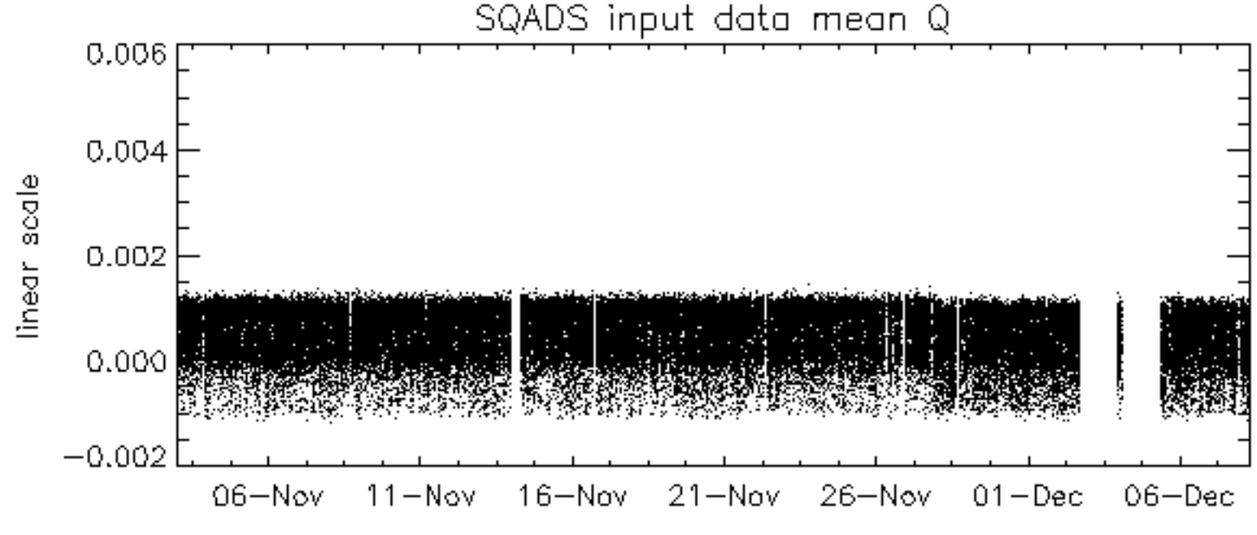
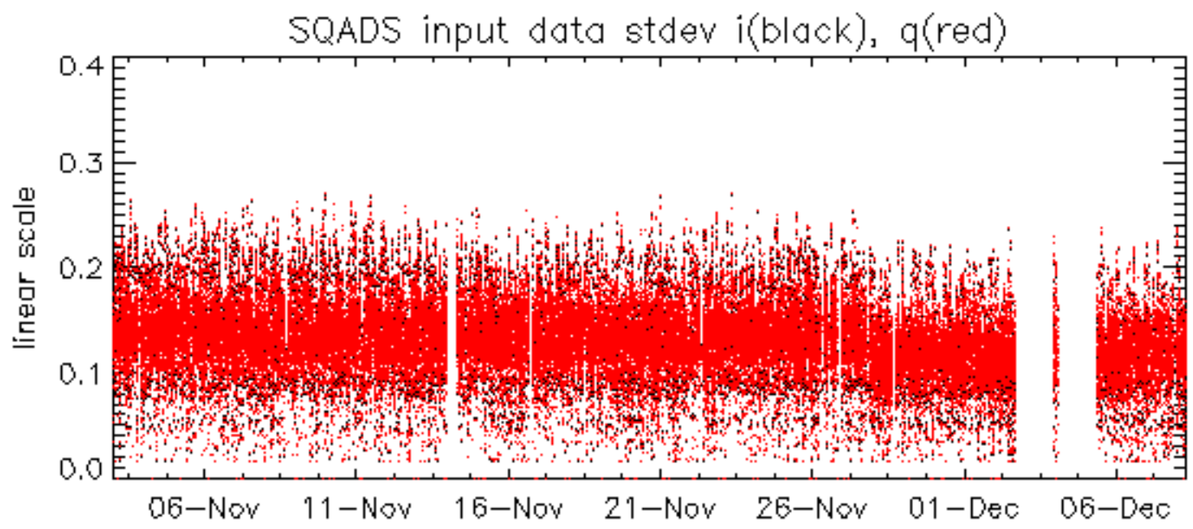
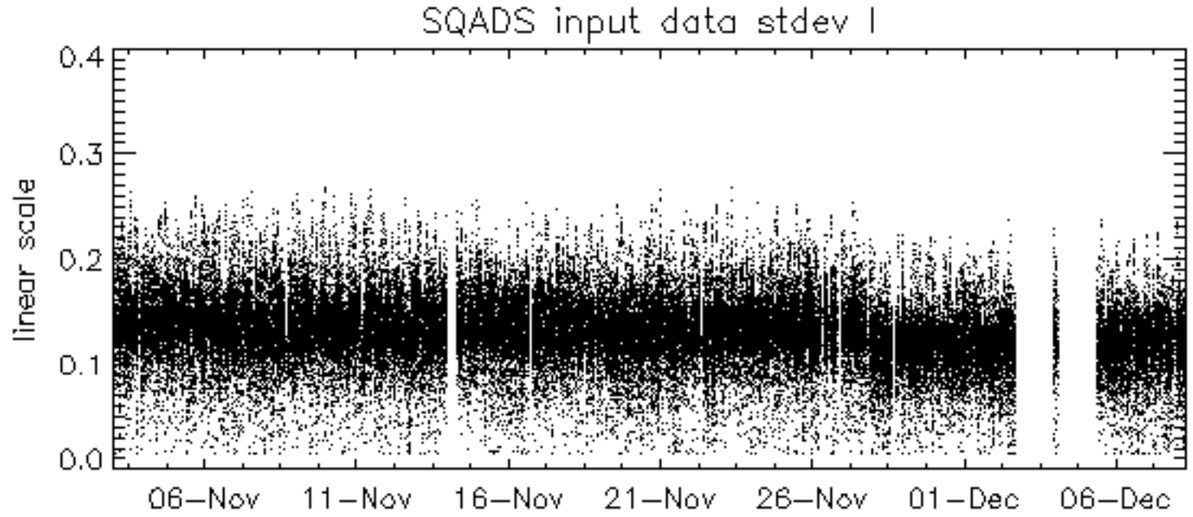

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

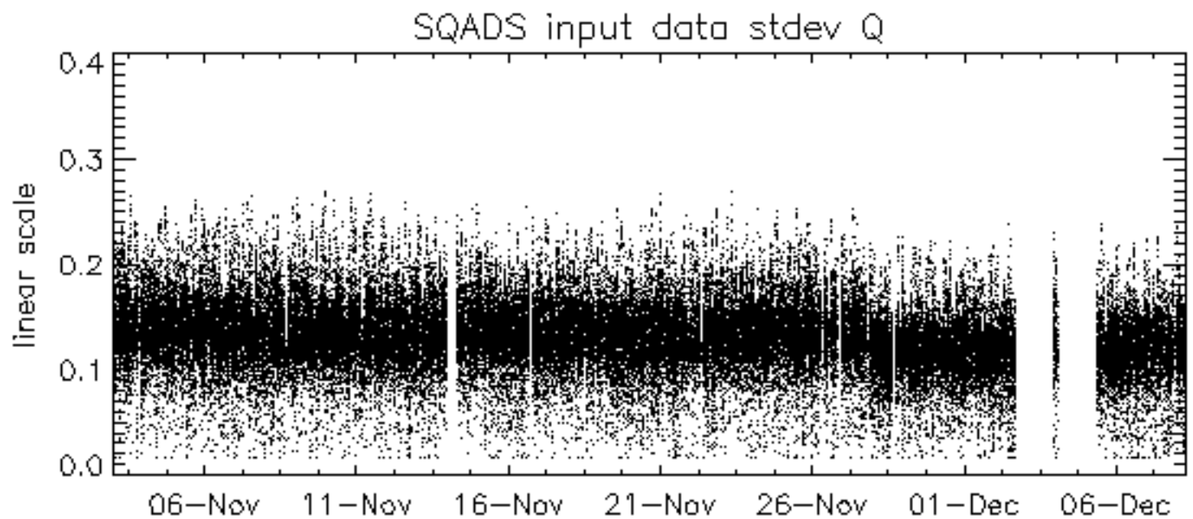

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Nov
11−Nov
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec

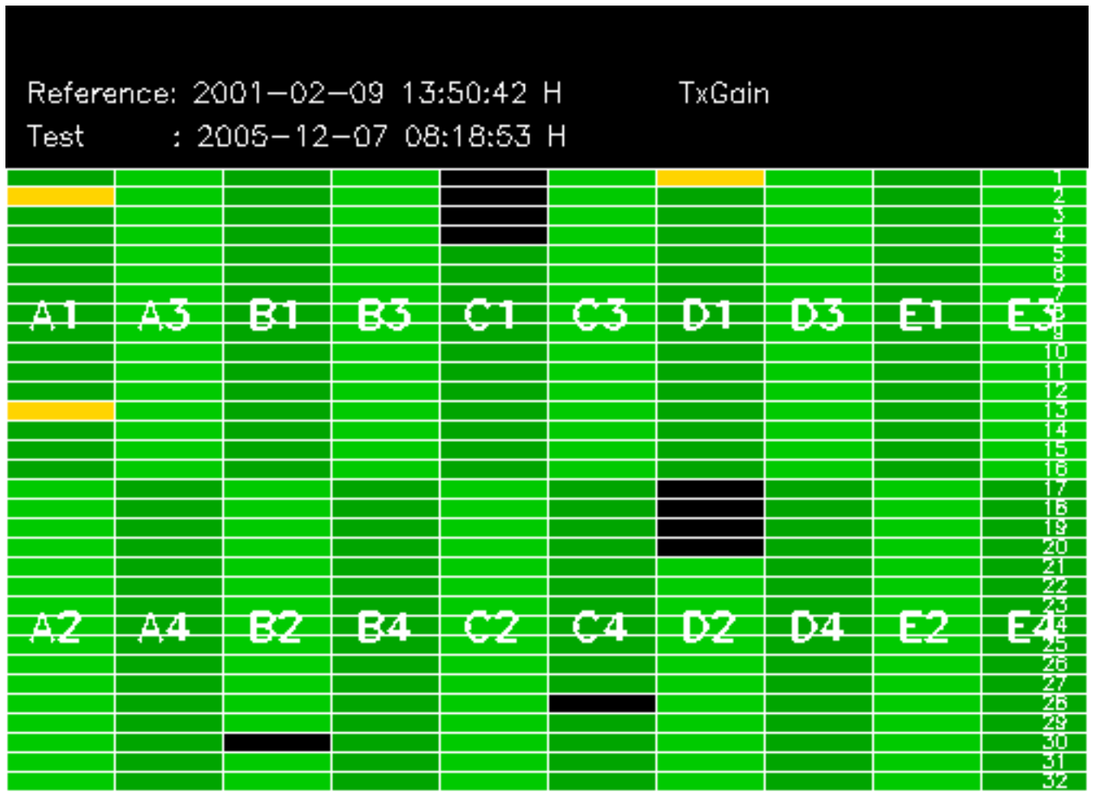

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Nov
11−Nov
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2005-12-07 08:18:53 H
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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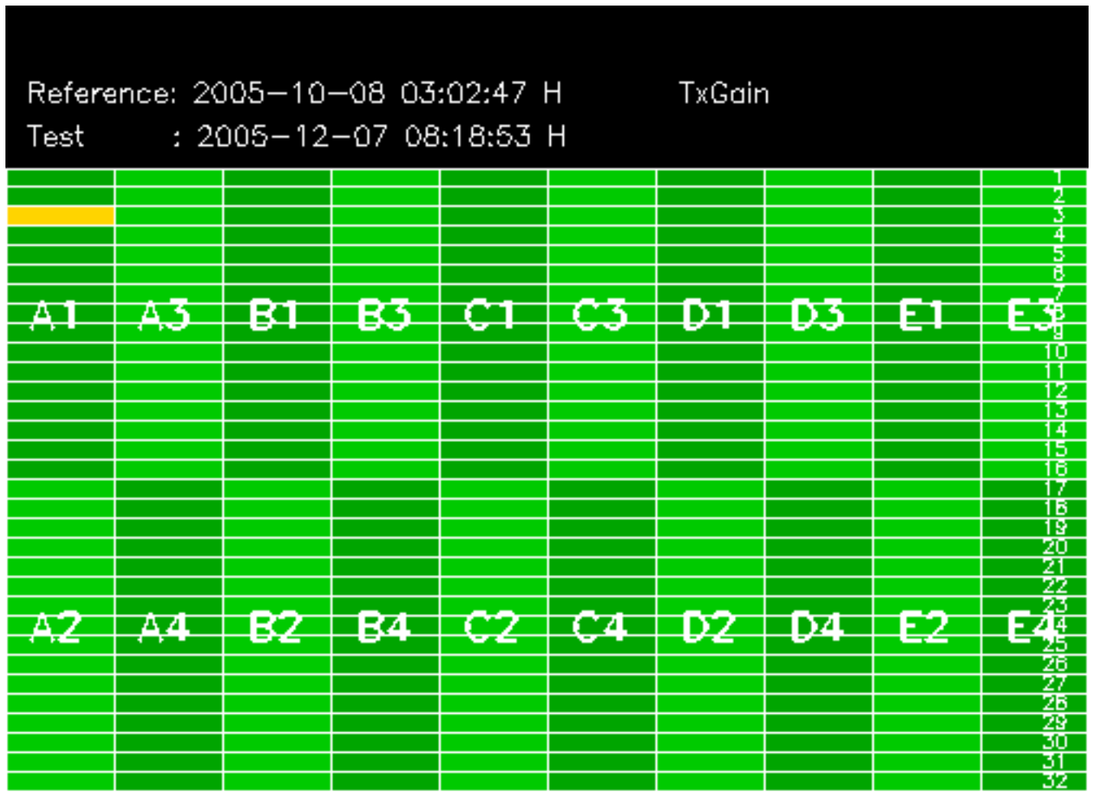
Reference: 2005-10-08 03:02:47 H
Test : 2005-12-07 08:18:53 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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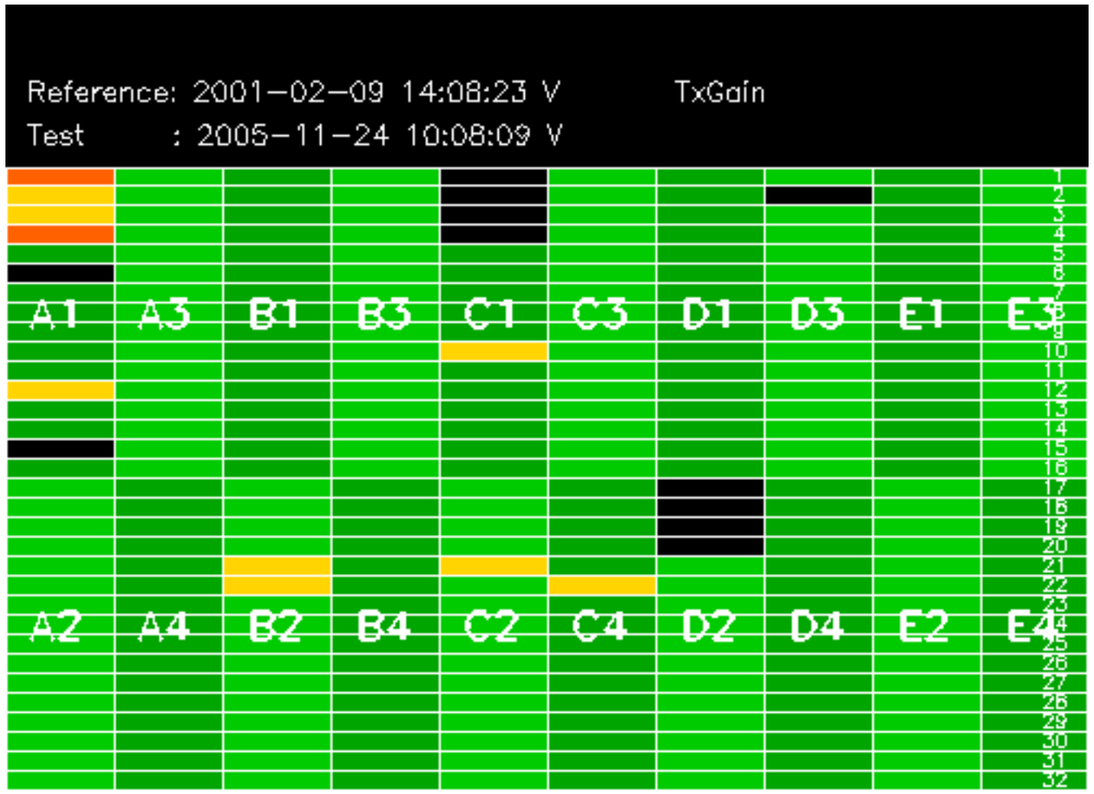
Reference: 2001-02-09 14:08:23 V
Test : 2005-11-24 10:08:09 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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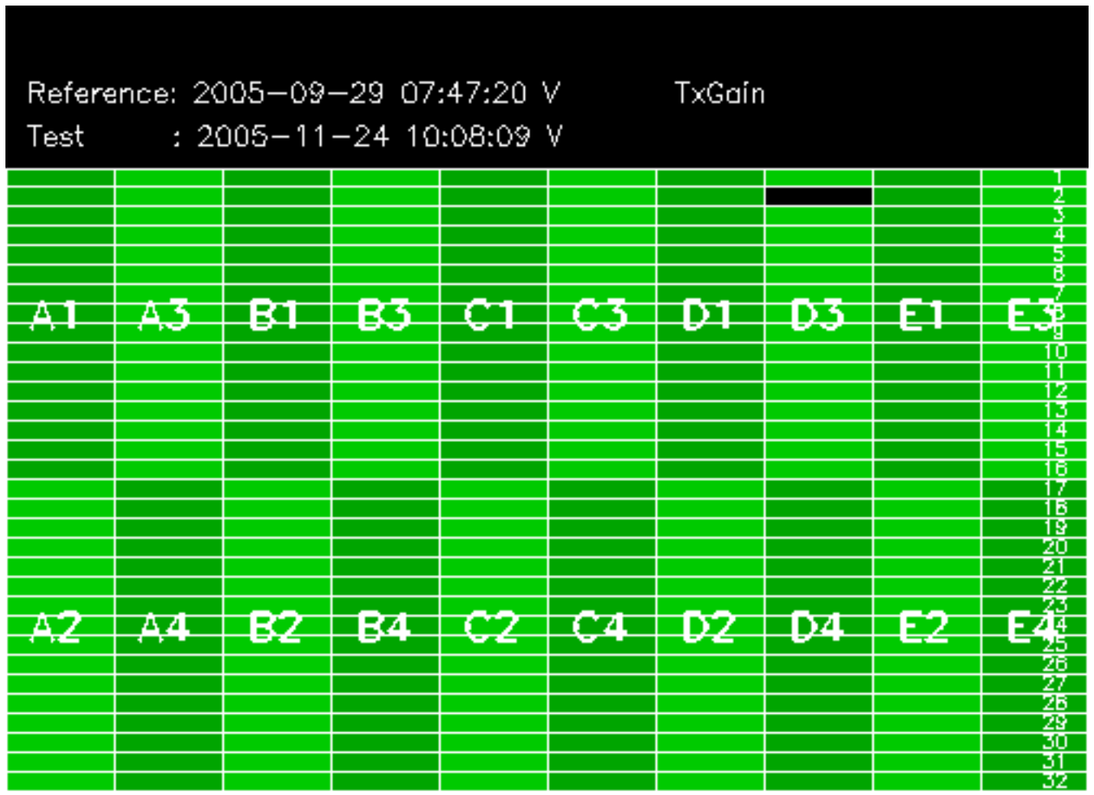
Reference: 2005-09-29 07:47:20 V
Test : 2005-11-24 10:08:09 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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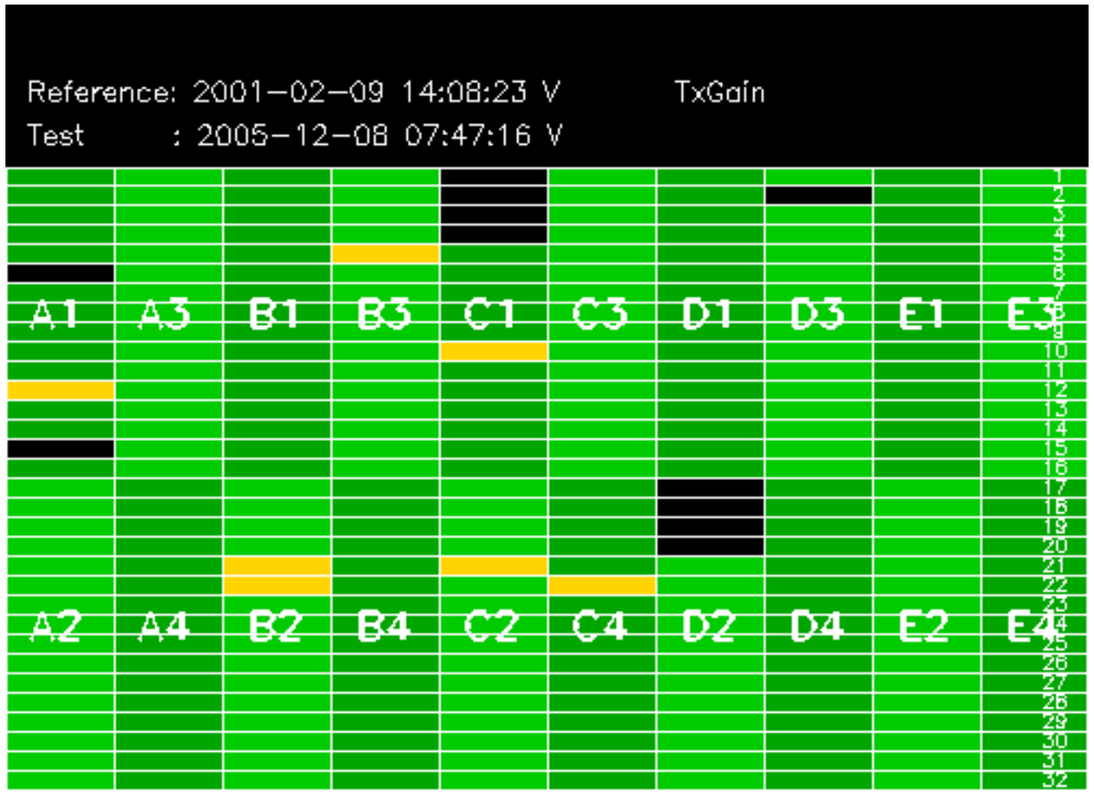
Reference: 2001-02-09 14:08:23 V
Test : 2005-12-08 07:47:16 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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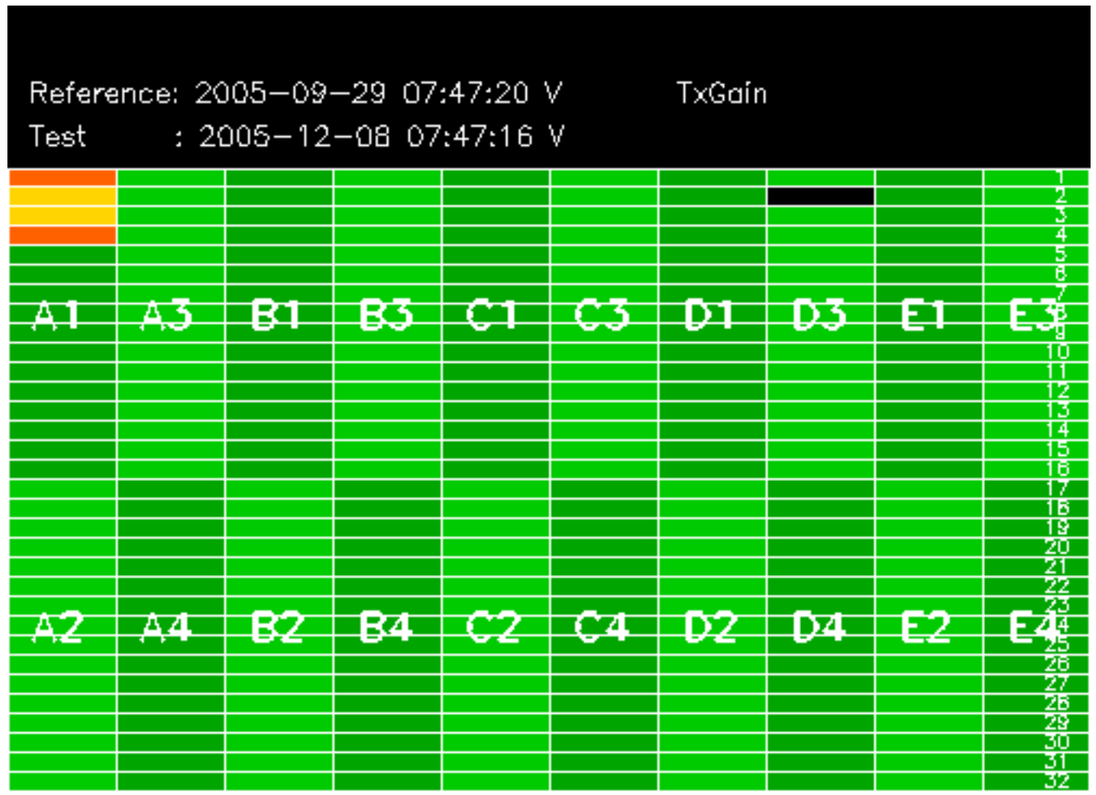
Reference: 2005-09-29 07:47:20 V
Test : 2005-12-08 07:47:16 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
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A2
A4
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B4
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Summary of analysis for the last 3 days 2005120[678]
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_WSM_1PNPDE20051206_014940_000002812043_00103_19696_2963.N1 </td> <td>0 </td> <td>3 </td></tr>
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<tr> <td>ASA_WSM_1PNPDE20051206_143021_000000852043_00111_19704_3065.N1 </td> <td>0 </td> <td>40 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051207_011642_000003672043_00117_19710_3119.N1 </td> <td>0 </td> <td>35 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051207_062903_000001402043_00120_19713_3149.N1 </td> <td>0 </td> <td>18 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051207_062903_000001402043_00120_19713_3182.N1 </td> <td>0 </td> <td>18 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051207_144158_000002082043_00125_19718_3195.N1 </td> <td>0 </td> <td>38 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051208_032332_000002442043_00133_19726_3277.N1 </td> <td>0 </td> <td>35 </td></tr>
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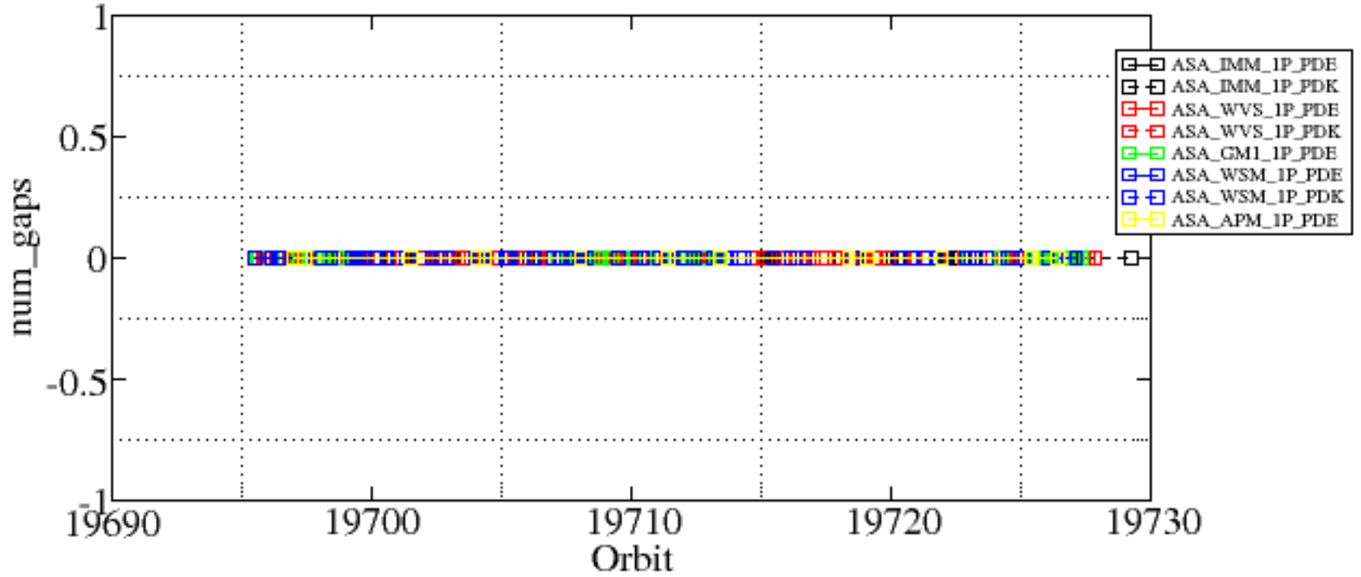
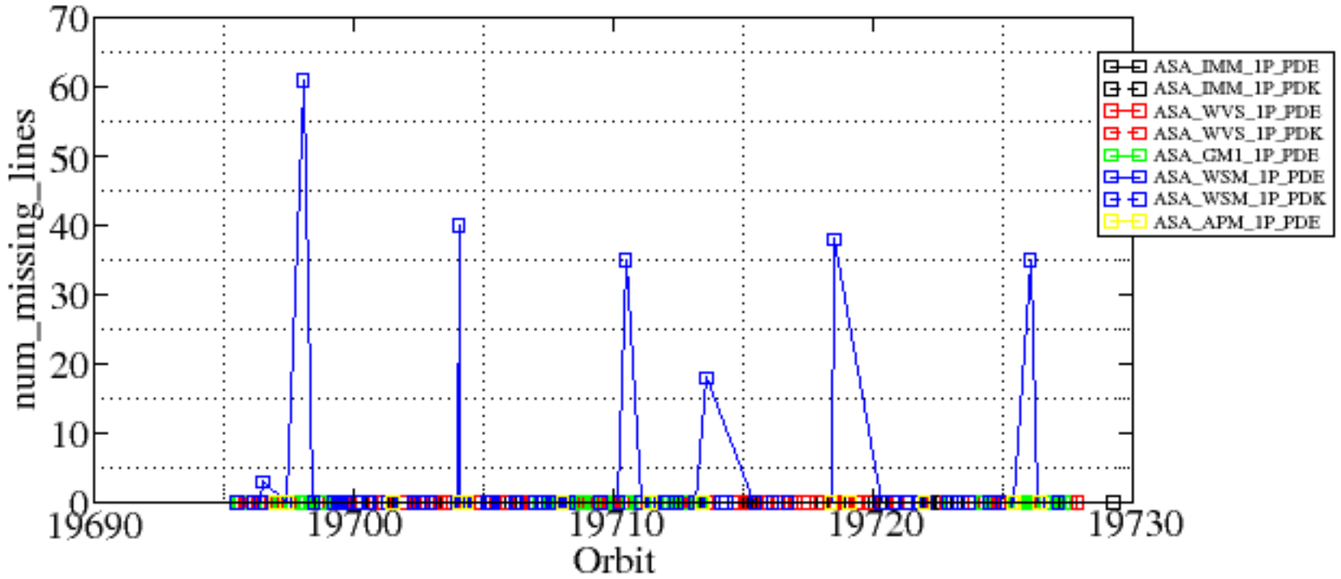
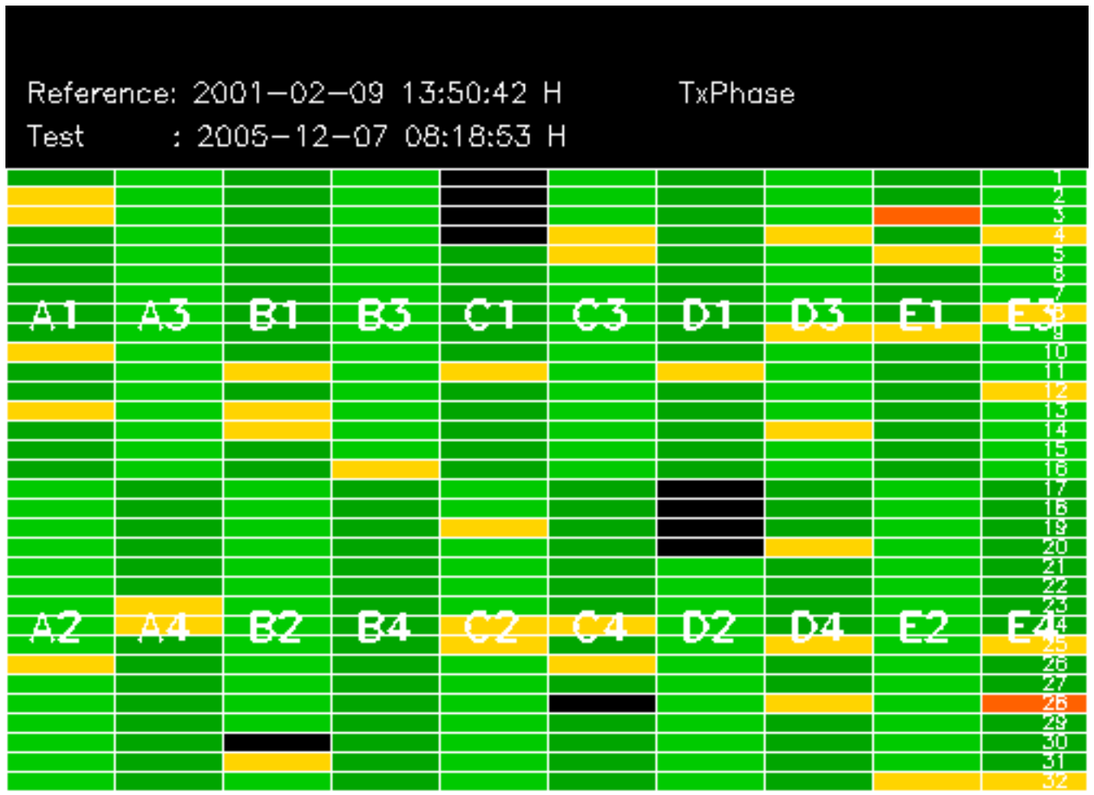

num_gaps
1
0.5
0
-0.5
-1
19690
19700
19710
19720
19730
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


num_missing_lines
70
60
50
40
30
20
10
0
19690
19700
19710
19720
19730
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


Reference: 2001-02-09 13:50:42 H
Test : 2005-12-07 08:18:53 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
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22
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24
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26
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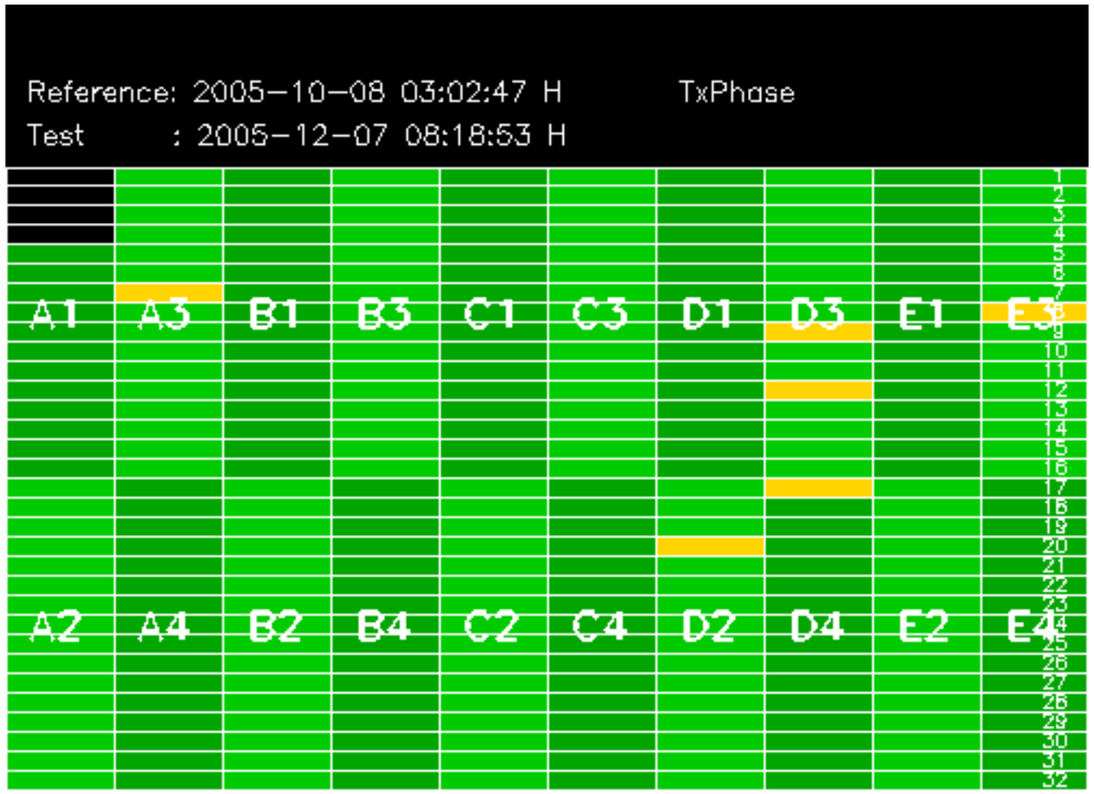
28
29
30
31
32


Reference: 2005-10-08 03:02:47 H
Test : 2005-12-07 08:18:53 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
25
26
27
28
29
30
31
32


Reference: 2001-02-09 14:08:23 V
Test : 2005-11-24 10:08:09 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
11
12
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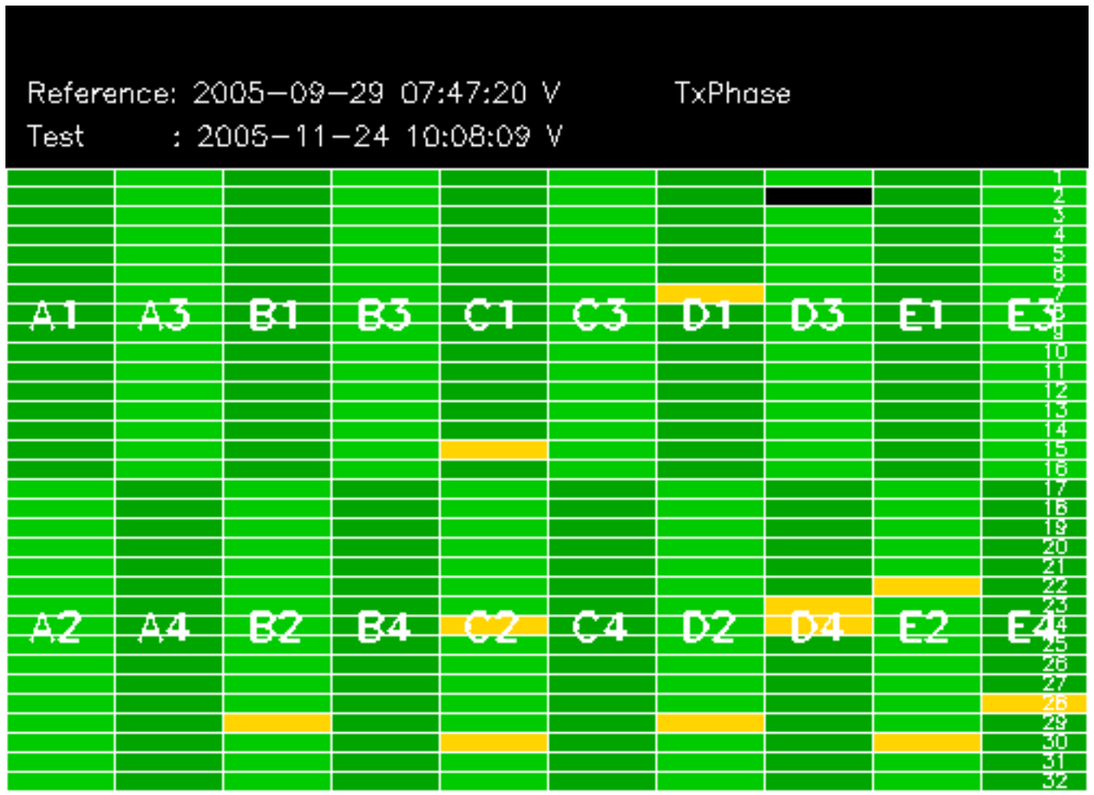
Reference: 2005-09-29 07:47:20 V
Test : 2005-11-24 10:08:09 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
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9
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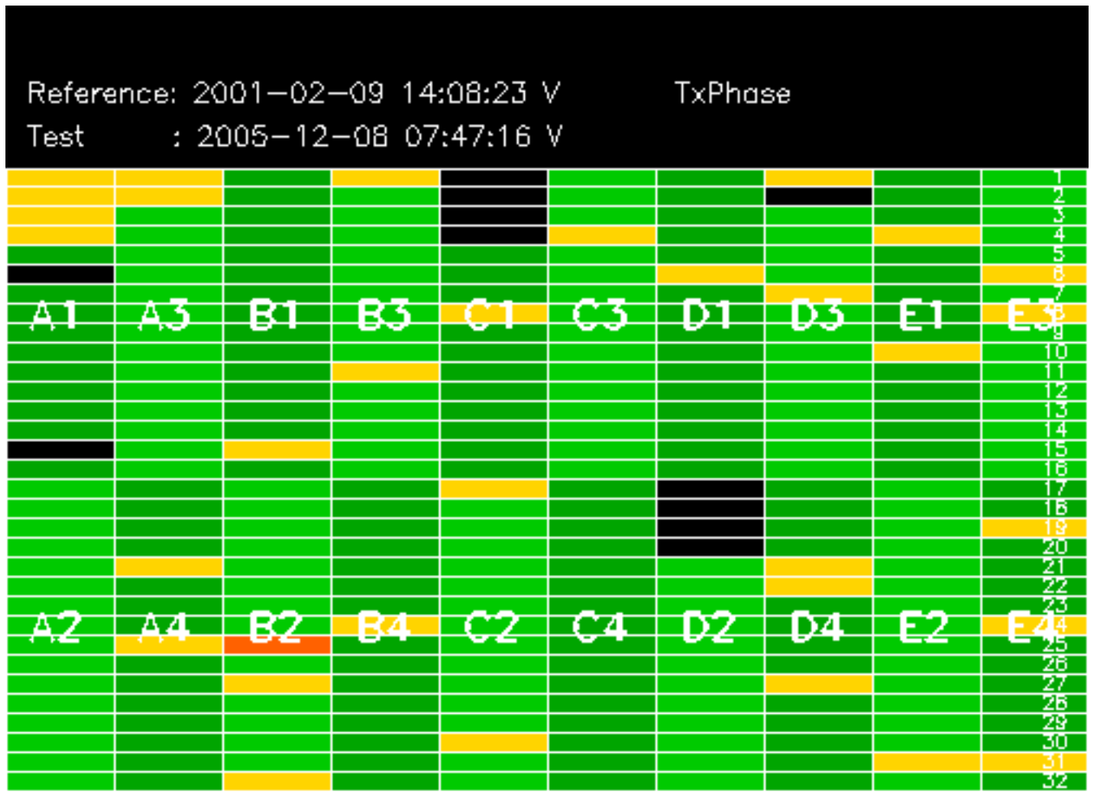
Reference: 2001-02-09 14:08:23 V
Test : 2005-12-08 07:47:16 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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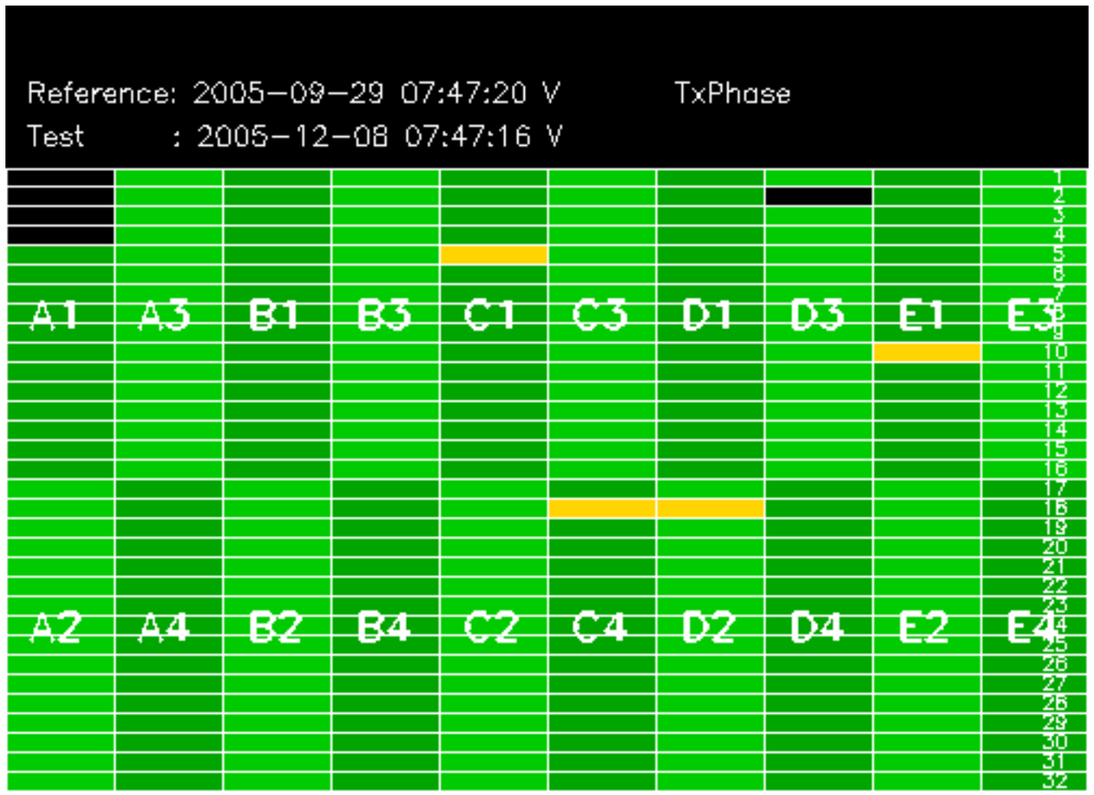
Reference: 2005-09-29 07:47:20 V
Test : 2005-12-08 07:47:16 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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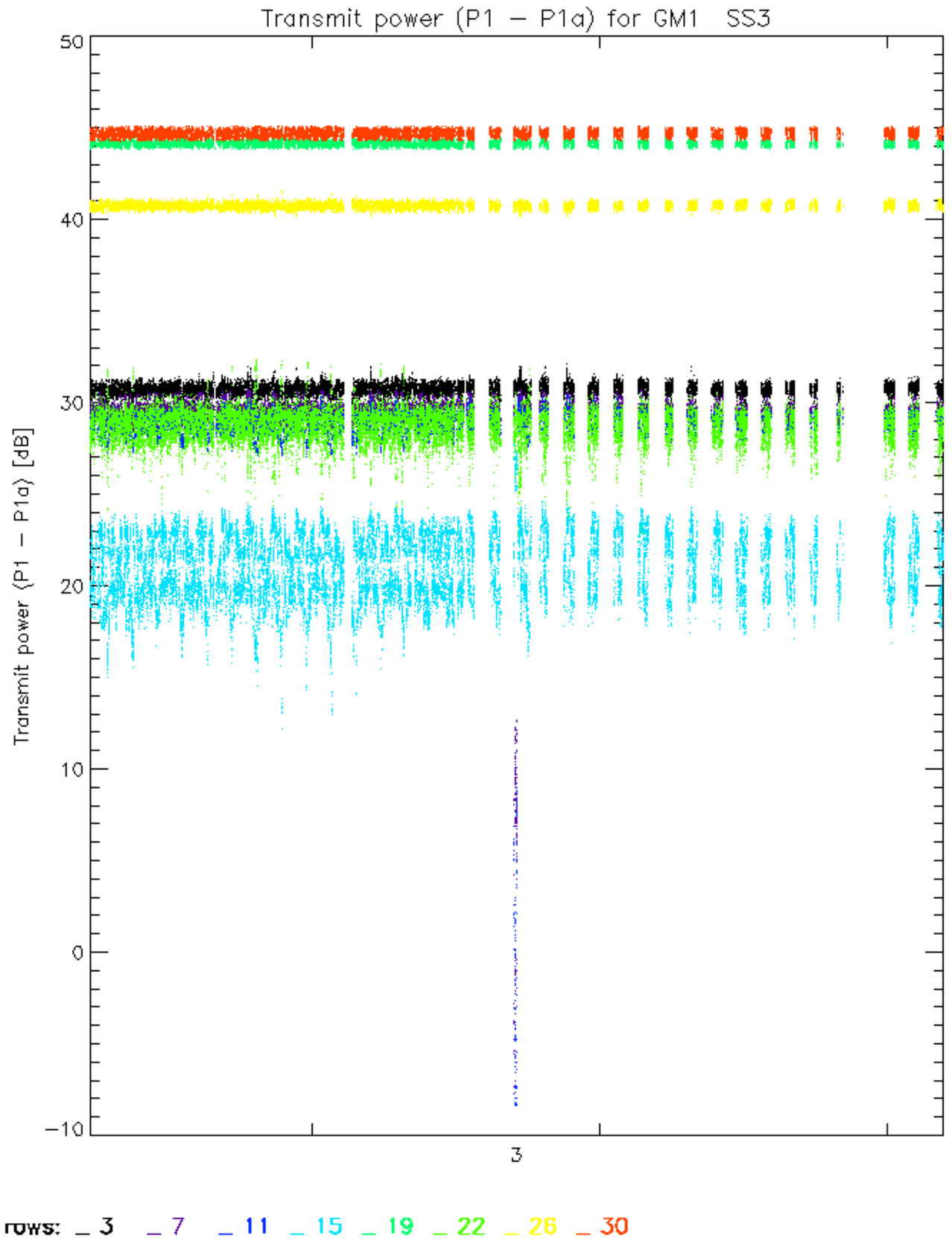
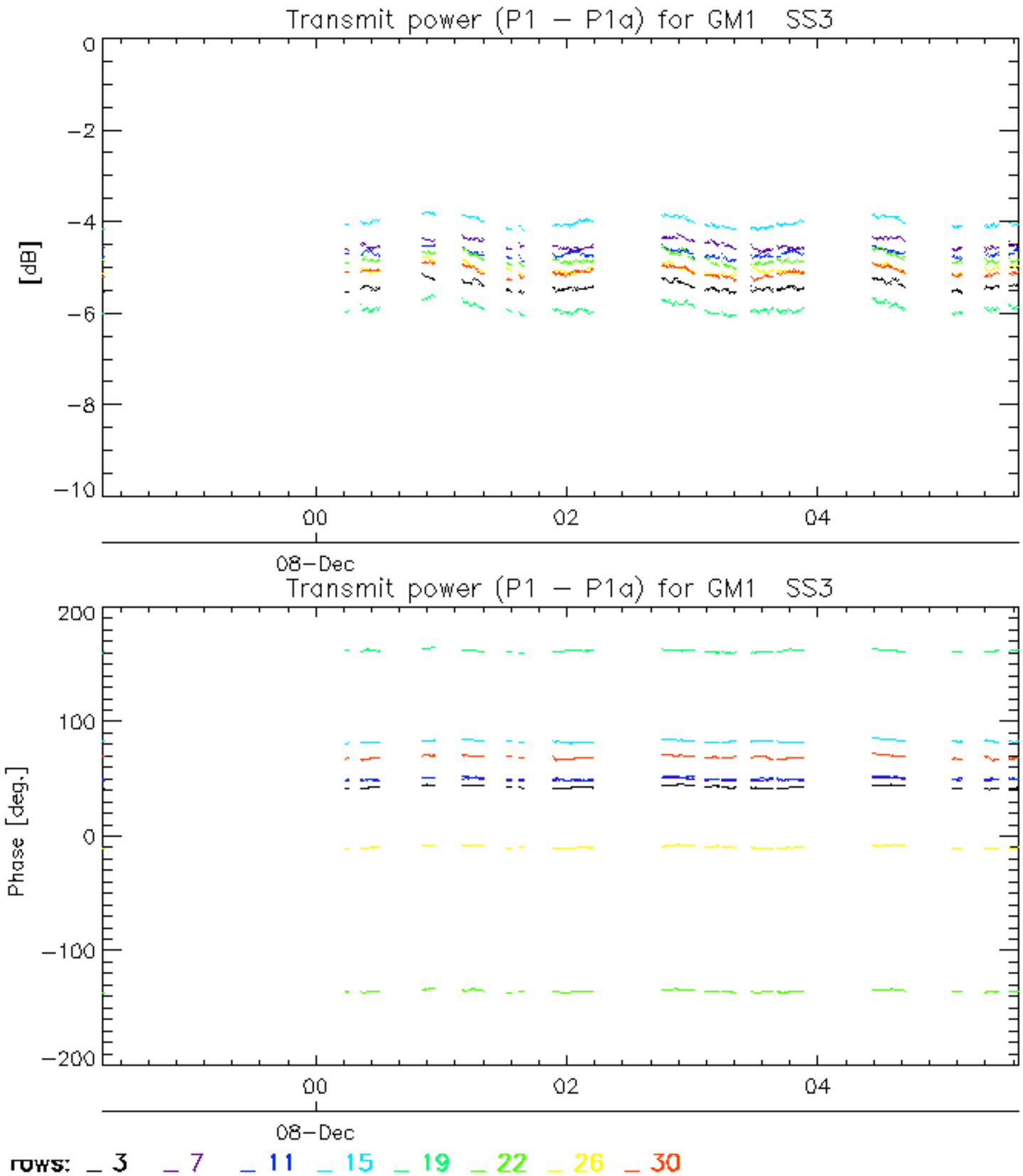
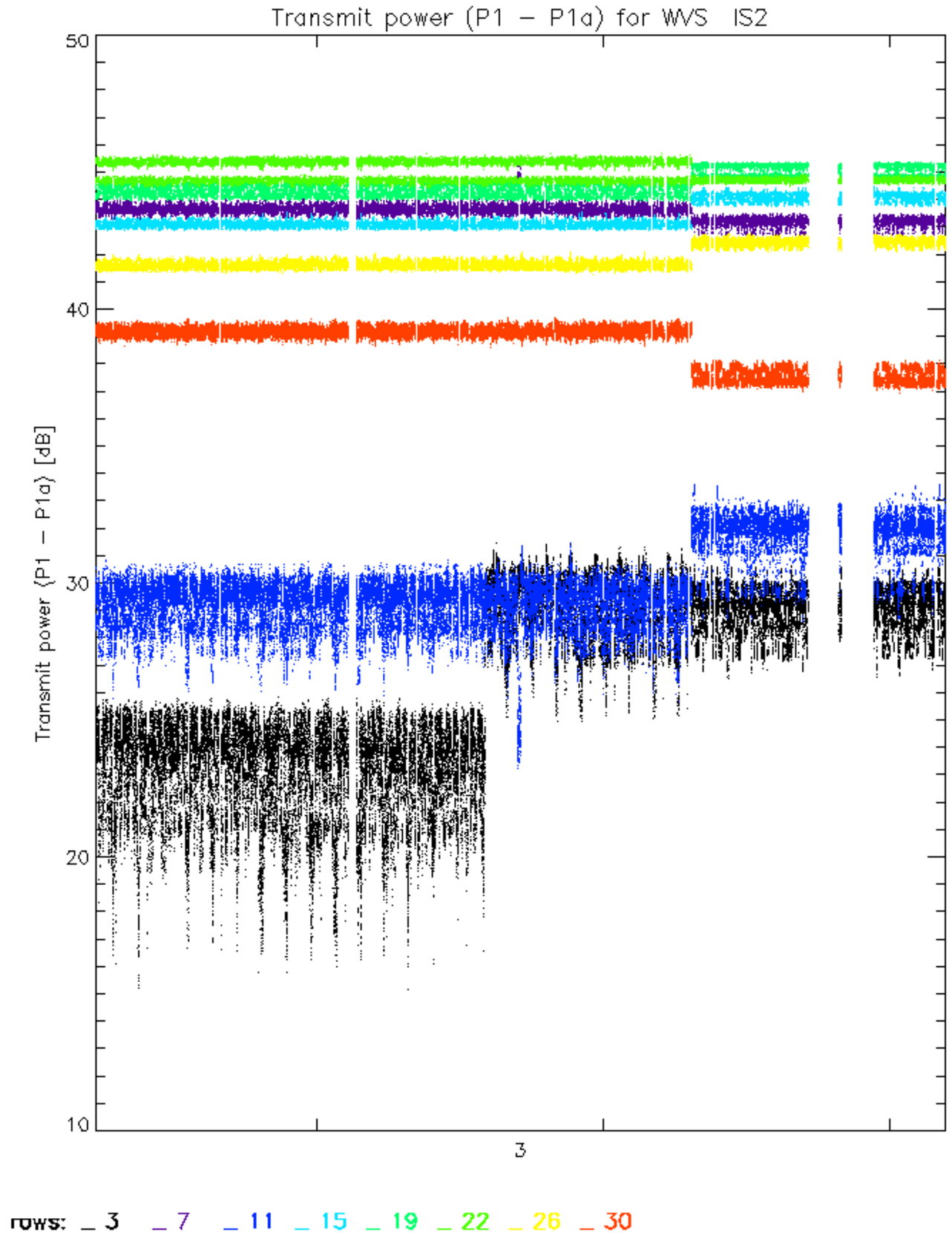
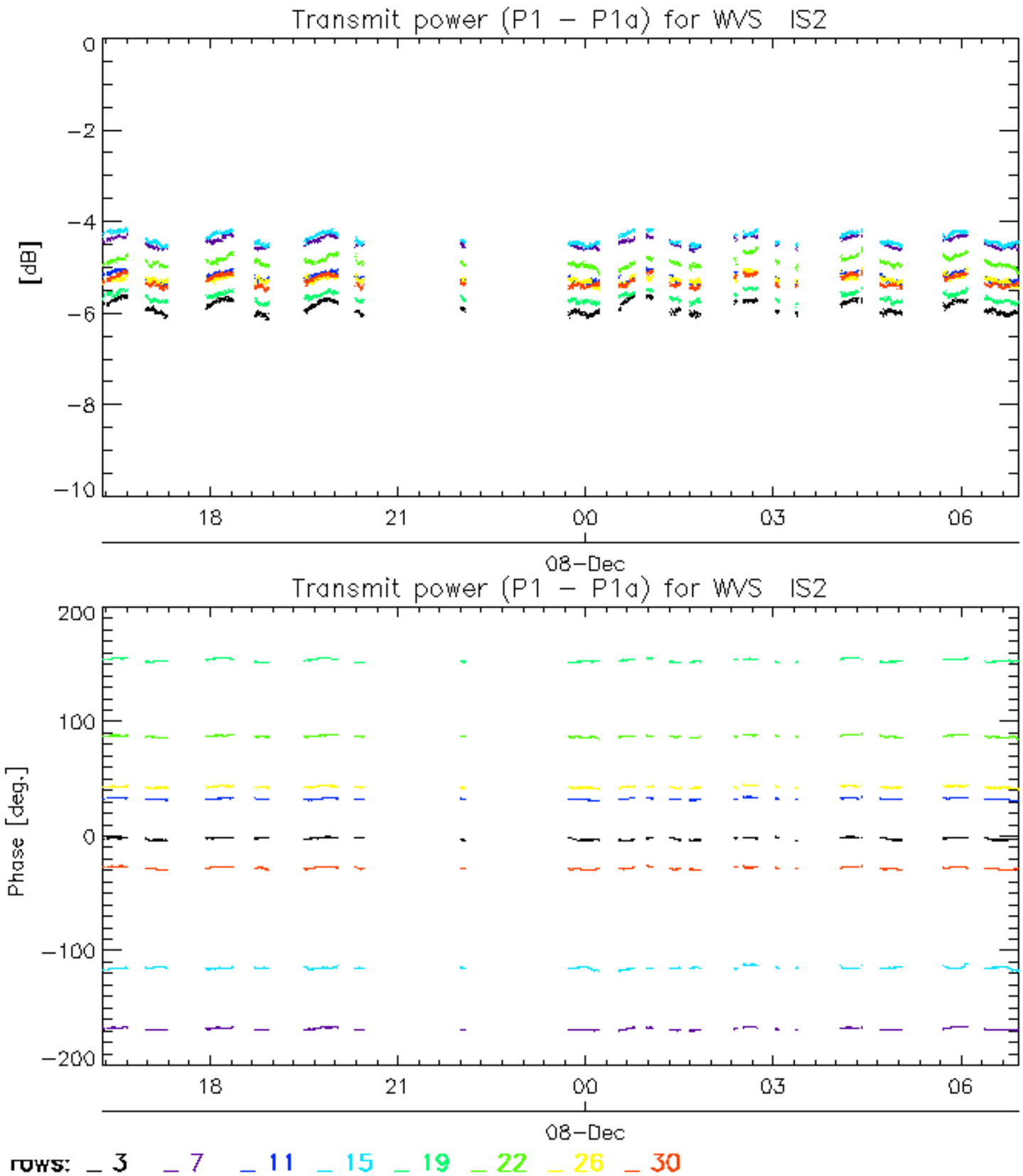

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
3
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
00
02
04
08–Dec
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
00
02
04
08–Dec
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
50
40
30
20
10
Transmit power (P1 – P1a) [dB]
3
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
08–Dec
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
08–Dec
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.