PRELIMINARY REPORT OF 061117

last update on Fri Nov 17 16:40:59 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 2006-11-16 00:00:00 to 2006-11-17 16:40:59

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	49	83	4	3	17
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	49	83	4	3	17
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	49	83	4	3	17
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	49	83	4	3	17

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	40	44	31	16	59
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	40	44	31	16	59
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	40	44	31	16	59
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	40	44	31	16	59

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	20061117 055512
H	20061116 062649

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	-3.955981	0.008951	0.001763
7	P1	-3.136714	0.022552	-0.076665
11	P1	-4.126563	0.024066	-0.040695
15	P1	-6.273674	0.014527	-0.084299
19	P1	-3.610264	0.064673	-0.008725
22	P1	-4.664245	0.130203	0.028442
26	P1	-3.975435	0.087629	0.076628
30	P1	-5.882682	0.168220	0.039306
3	P1	-16.511831	0.232707	0.075418
7	P1	-17.234032	0.203744	-0.229956
11	P1	-17.130333	0.439758	-0.180777
15	P1	-13.026176	0.126255	-0.176058
19	P1	-14.884455	0.374363	-0.120060
22	P1	-15.831787	0.508880	-0.251030
26	P1	-15.072861	0.210023	0.095801
30	P1	-17.348705	0.591912	-0.526280

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.846645	0.088715	-0.004381
7	P2	-21.734032	0.092687	0.018097
11	P2	-15.667929	0.103272	0.059054
15	P2	-7.112882	0.105938	-0.040829
19	P2	-9.179302	0.102146	-0.062345
22	P2	-18.214590	0.094764	-0.076819
26	P2	-16.520643	0.108736	-0.128198
30	P2	-19.472956	0.088389	-0.003071

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.228936	0.008138	-0.036485
7	P3	-8.228936	0.008138	-0.036485
11	P3	-8.228936	0.008138	-0.036485
15	P3	-8.228936	0.008138	-0.036485
19	P3	-8.228936	0.008138	-0.036485
22	P3	-8.228936	0.008138	-0.036485
26	P3	-8.228834	0.008145	-0.036291
30	P3	-8.228834	0.008145	-0.036291

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	-3.903237	0.050366	-0.022994
7	P1	-2.525277	0.304091	0.026046
11	P1	-2.871259	0.047547	0.036370
15	P1	-3.681916	0.055822	0.000889
19	P1	-3.529860	0.107906	-0.001448
22	P1	-5.070629	0.084616	0.079278
26	P1	-6.002637	0.179478	-0.031192
30	P1	-5.310074	0.106485	-0.041544
3	P1	-11.706320	0.121958	-0.034226
7	P1	-10.049575	0.387336	-0.042662
11	P1	-10.347816	0.129767	0.059361
15	P1	-10.791285	0.210265	0.130938
19	P1	-15.763282	2.046181	0.129850
22	P1	-21.260748	1.517539	-0.481938

26	P1	-15.994117	0.394935	-0.171931
30	P1	-17.958492	0.417458	0.168716

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.436300	0.105288	-0.091992
7	P2	-22.186529	0.386275	-0.125622
11	P2	-10.919524	0.094730	-0.077656
15	P2	-4.936378	0.091933	-0.103747
19	P2	-6.920249	0.154702	-0.116054
22	P2	-8.239123	0.160405	-0.077042
26	P2	-24.288187	0.280899	-0.121098
30	P2	-21.941925	0.164840	-0.042413

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.075147	0.003220	-0.032149
7	P3	-8.075096	0.003195	-0.032434
11	P3	-8.075157	0.003202	-0.032735
15	P3	-8.075071	0.003201	-0.032456
19	P3	-8.075163	0.003205	-0.032617
22	P3	-8.075074	0.003210	-0.032610
26	P3	-8.075067	0.003205	-0.032364
30	P3	-8.075089	0.003213	-0.032566

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	0.000544820
	stdev	1.77670e-07
MEAN Q	mean	0.000518944
	stdev	2.20256e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136280
	stdev	0.00111131
STDEV Q	mean	0.136637
	stdev	0.00112823

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006111[567]
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

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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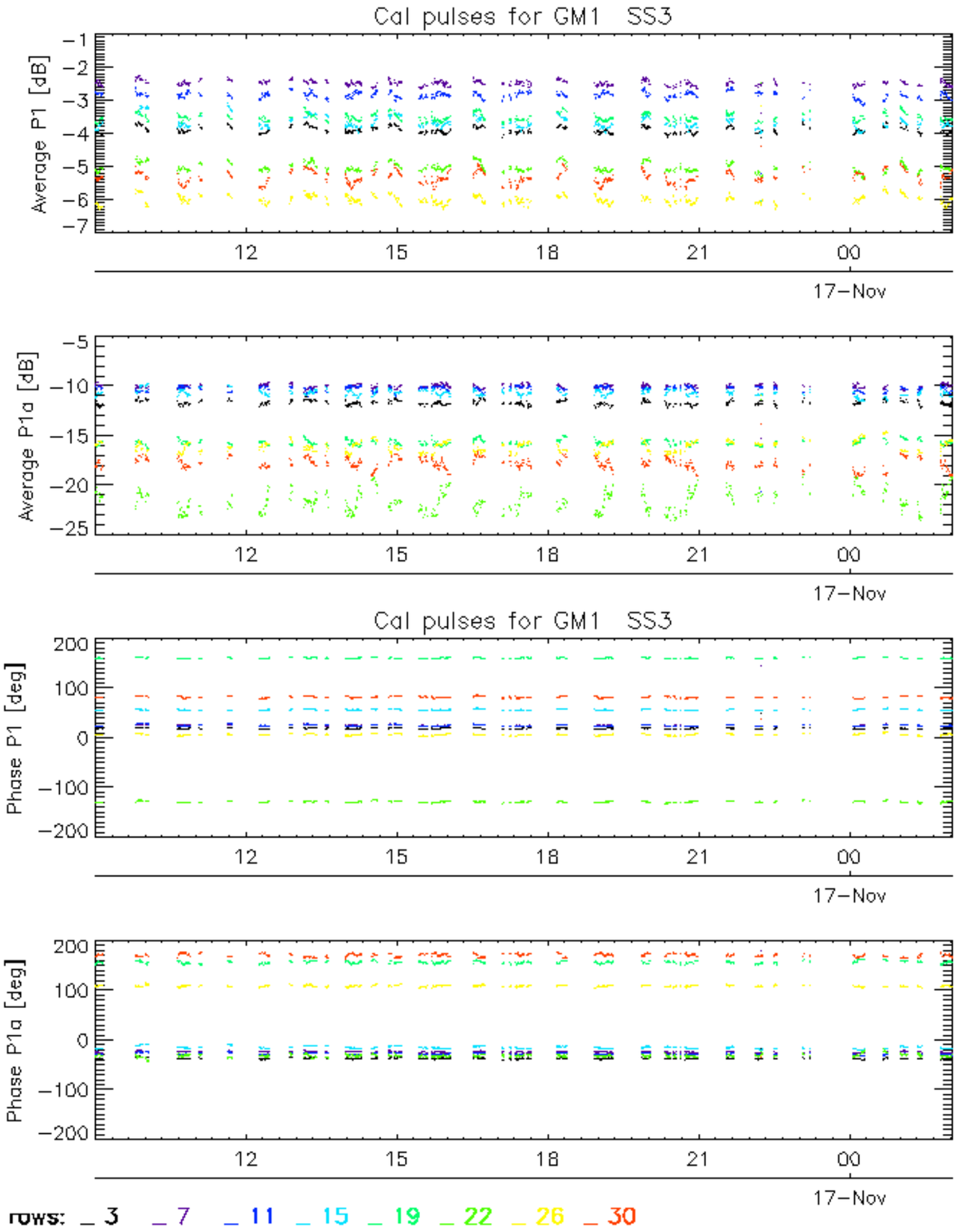
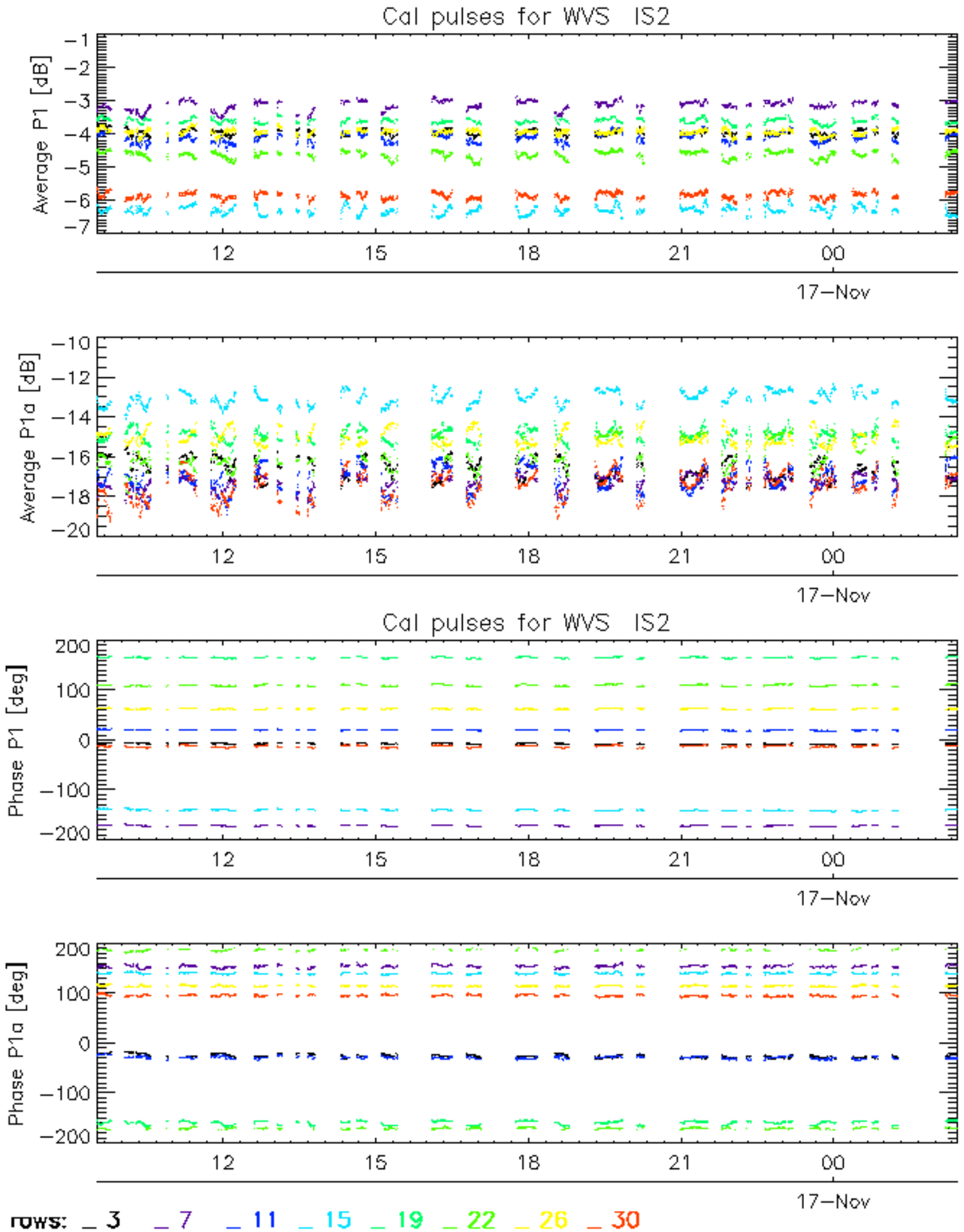
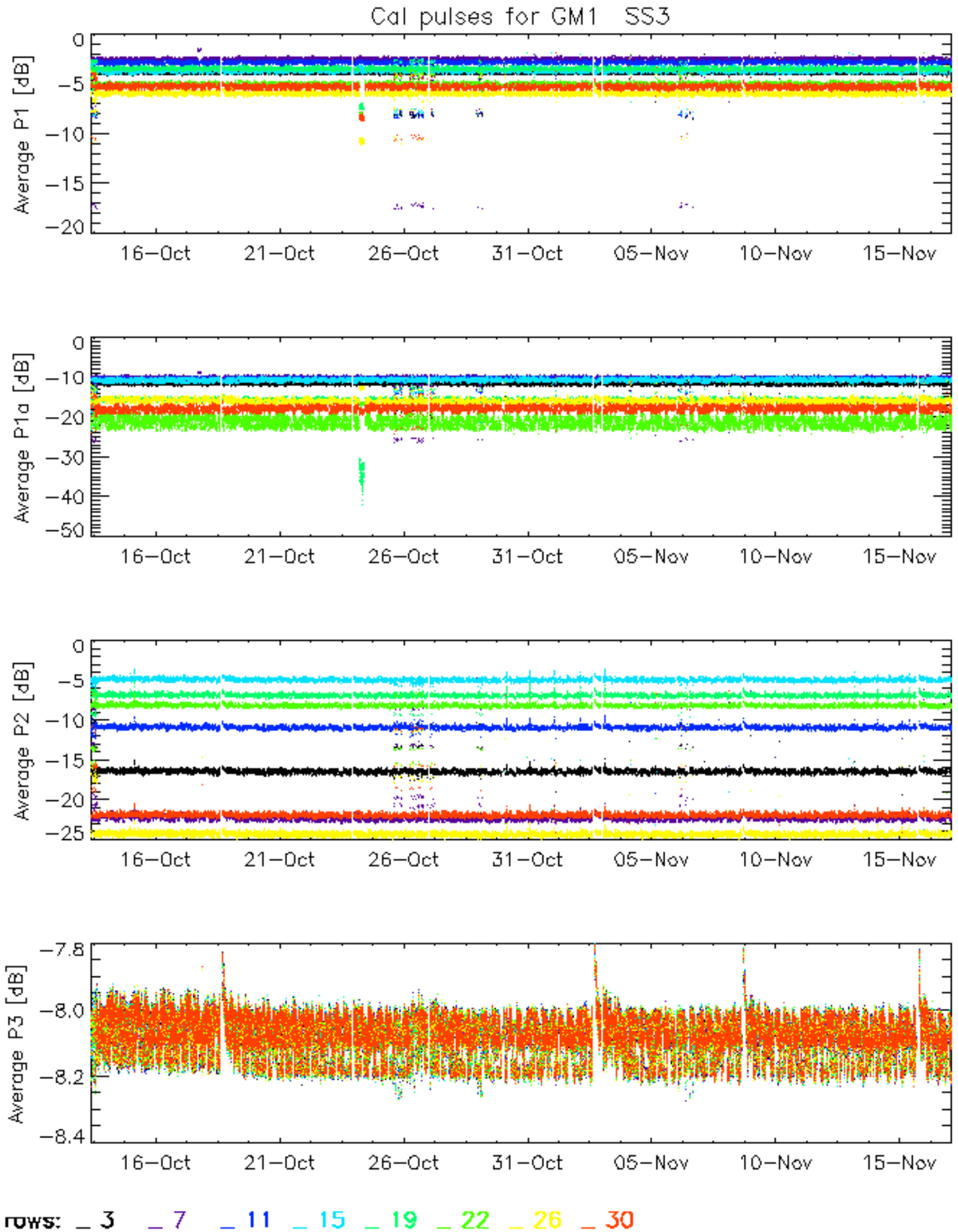
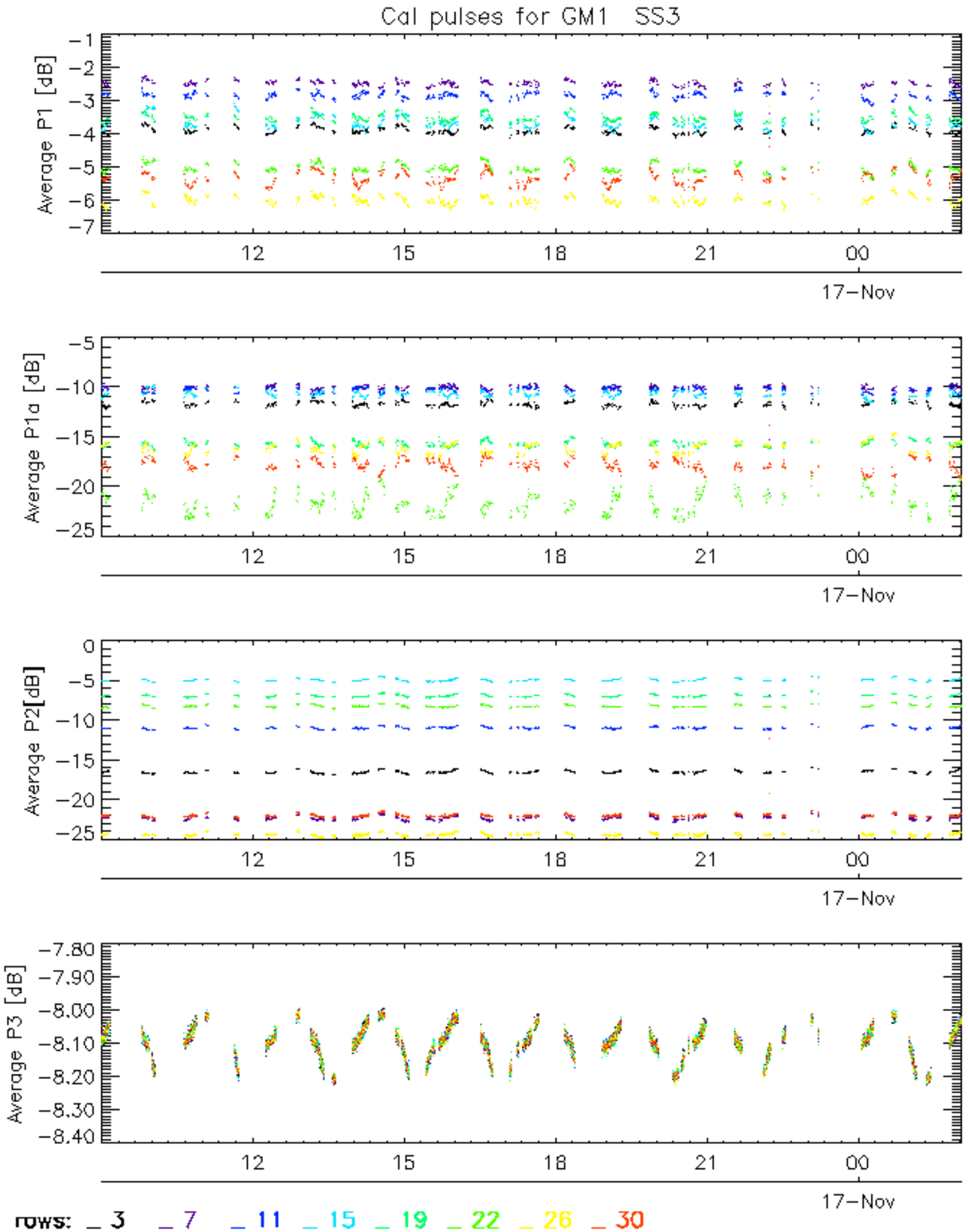
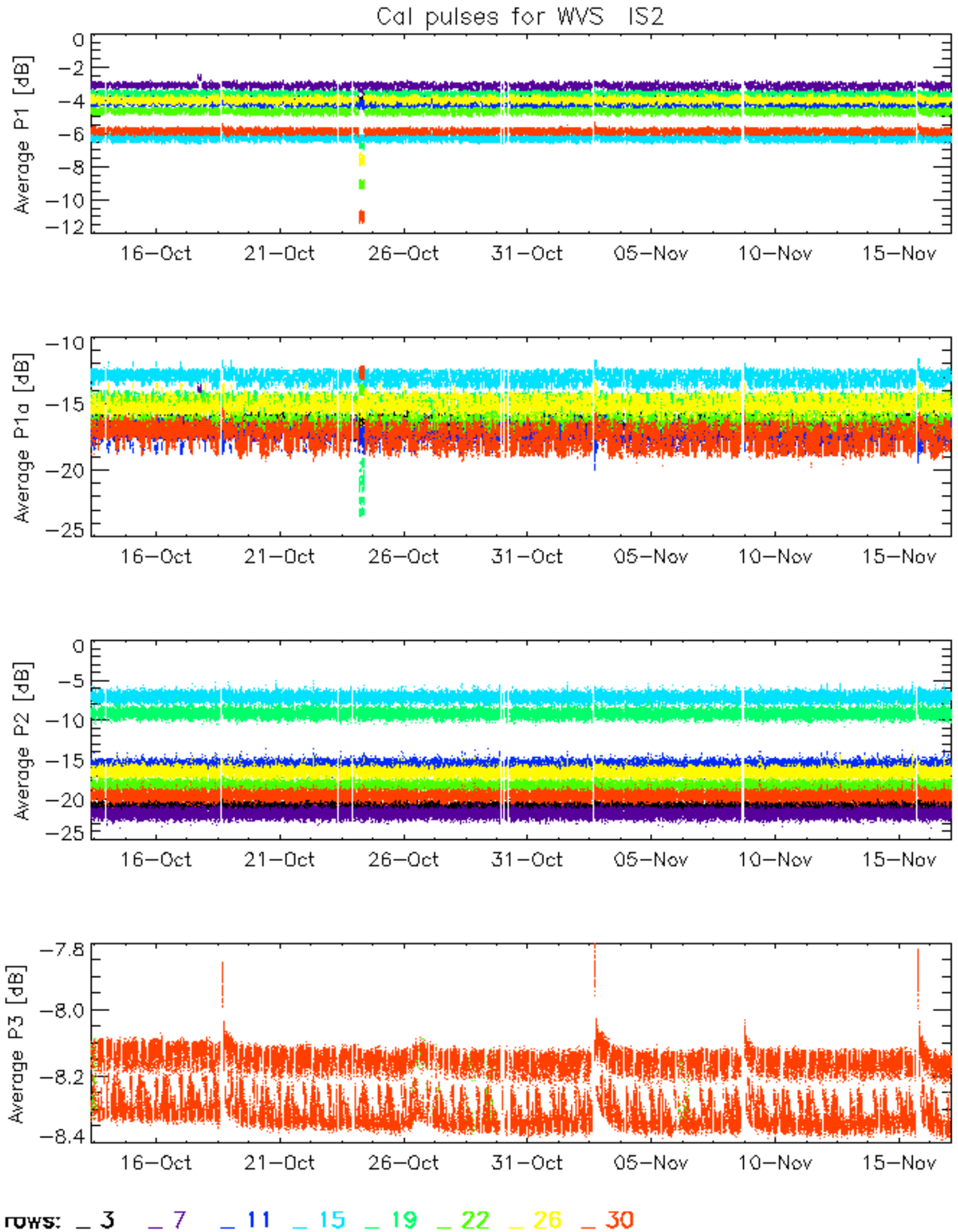
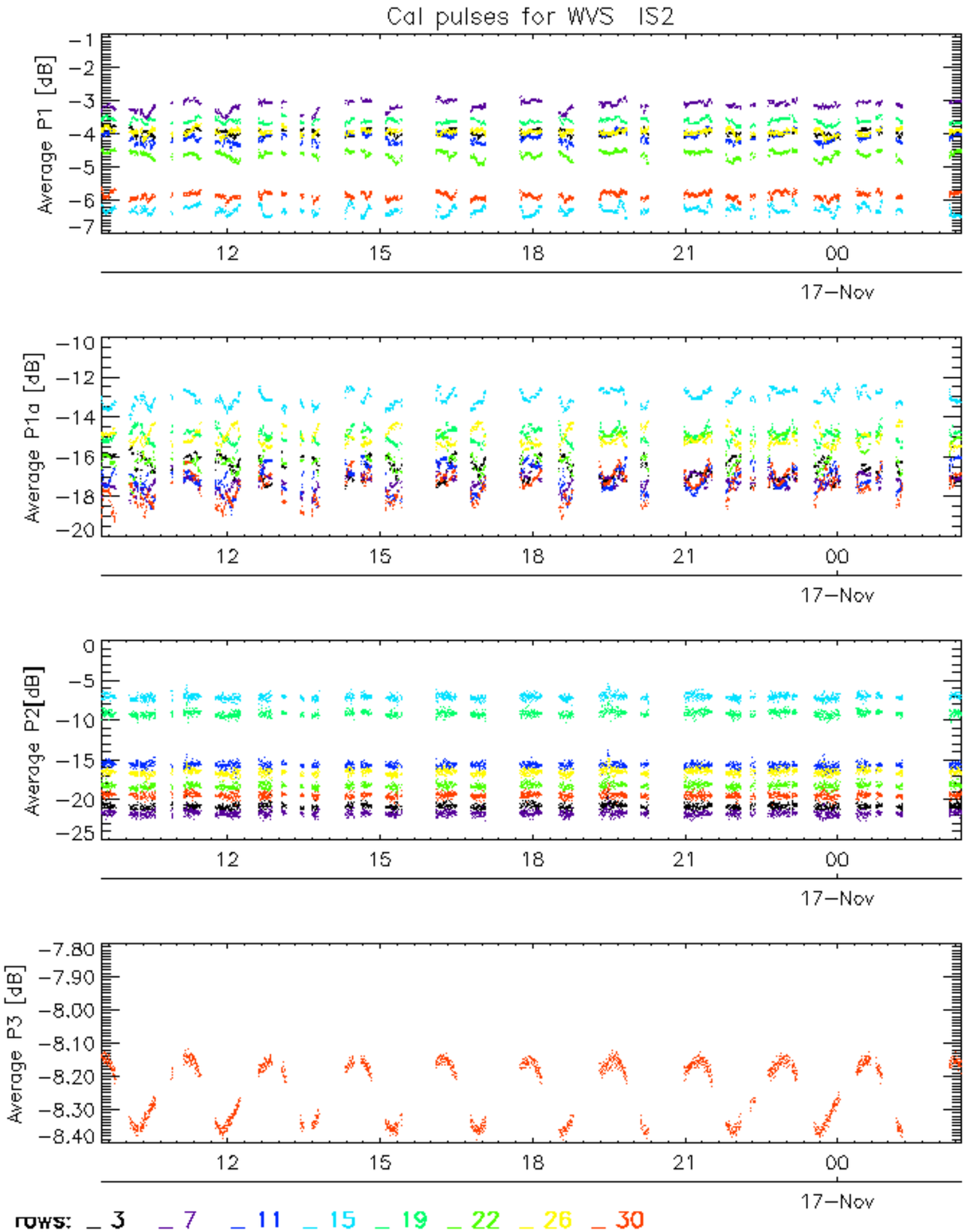

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
12
15
18
21
00
17−Nov
Average P1a [dB]
−5
−10
−15
−20
−25
12
15
18
21
00
17−Nov
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
12
15
18
21
00
17−Nov
Phase P1a [deg]
200
100
0
−100
−200
12
15
18
21
00
17−Nov
rows: 3 7 11 15 19 22 26 30


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


Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
16−Oct
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
Average P1a [dB]
0
−10
−20
−30
−40
−50
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

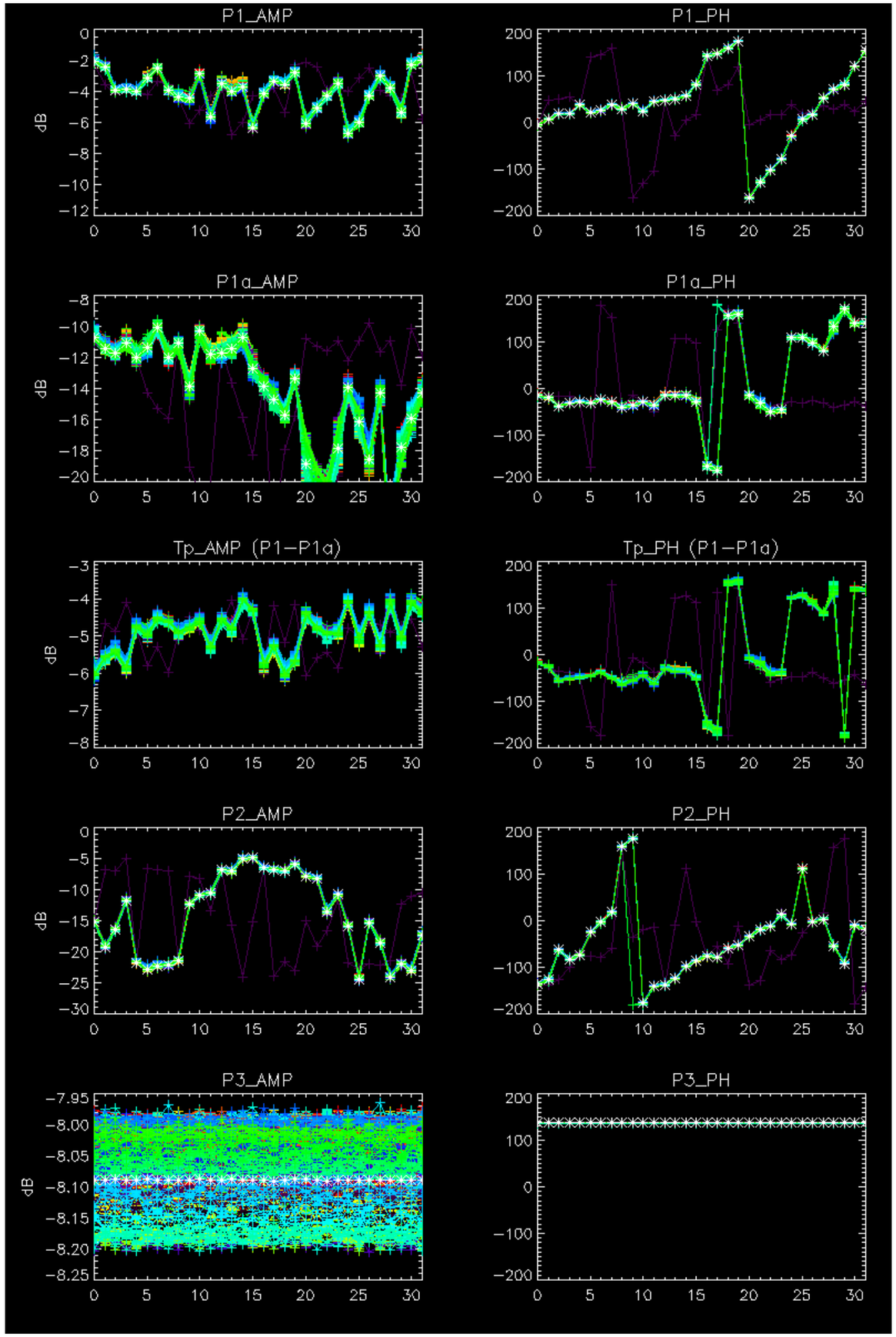

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
12
15
18
21
00
17−Nov
Average P1a [dB]
−5
−10
−15
−20
−25
12
15
18
21
00
17−Nov
Average P2[dB]
0
−5
−10
−15
−20
−25
12
15
18
21
00
17−Nov
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
12
15
18
21
00
17−Nov
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

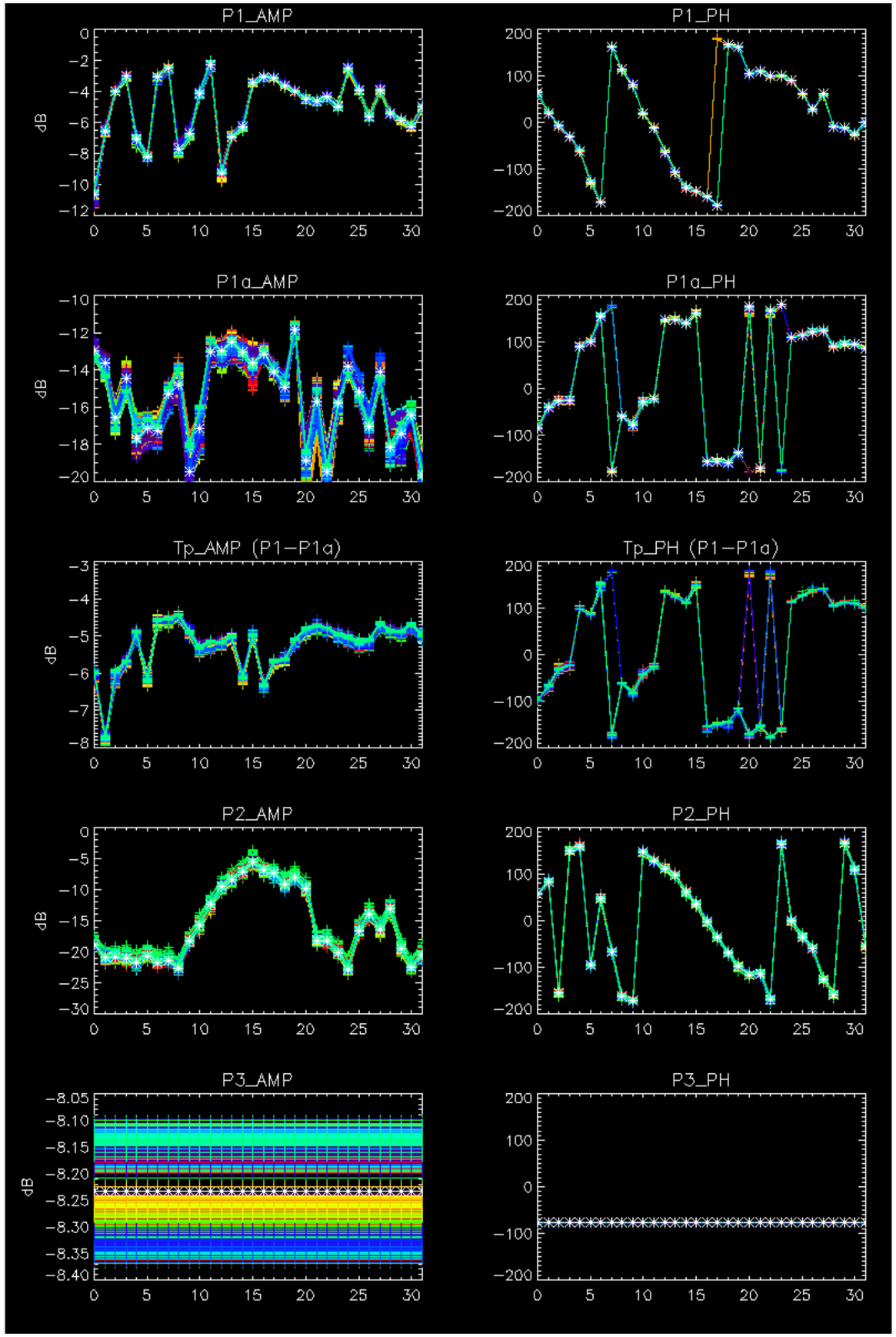

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
16−Oct
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov
Average P1a [dB]
−10
−15
−20
−25
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

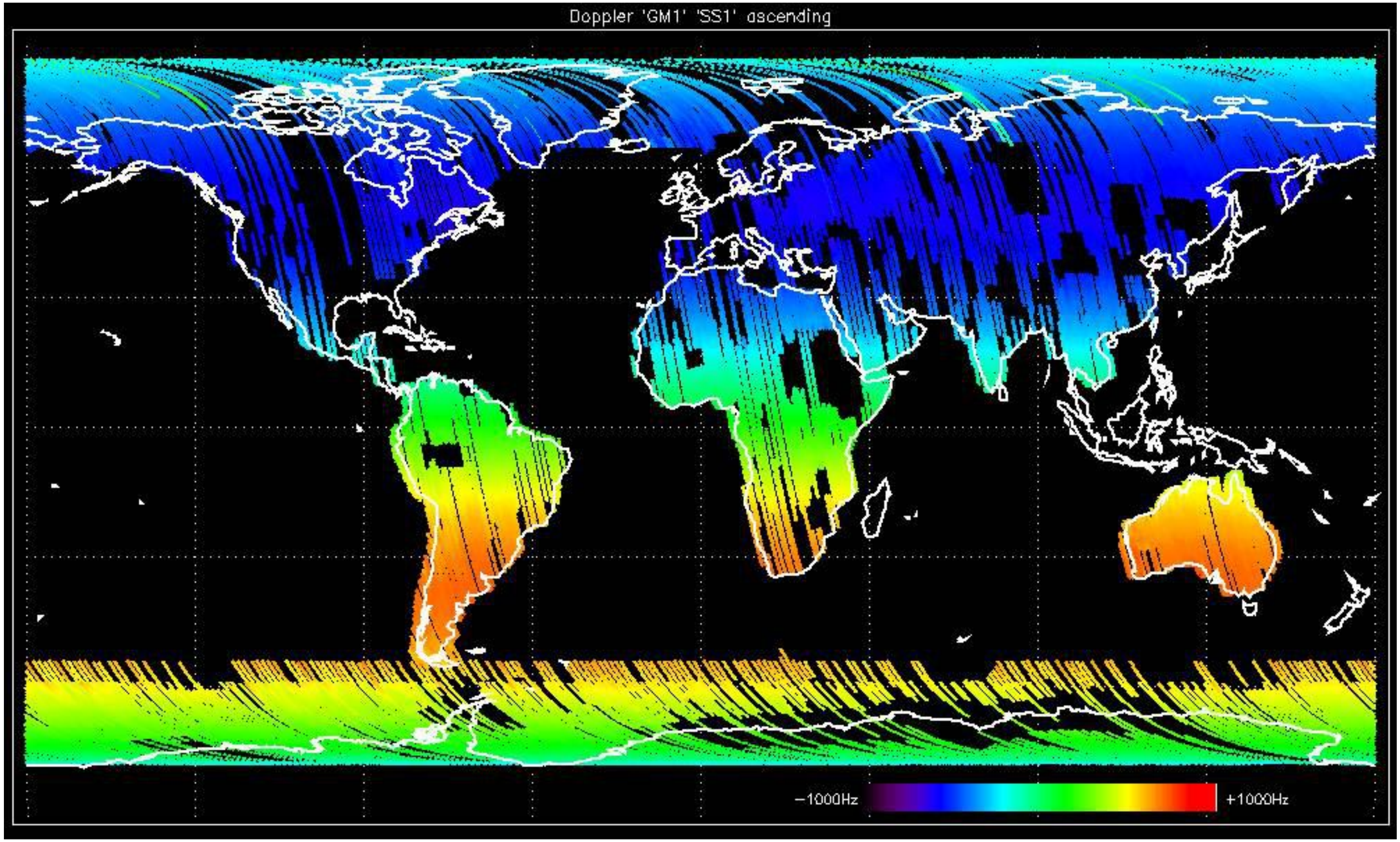
No anomalies observed.

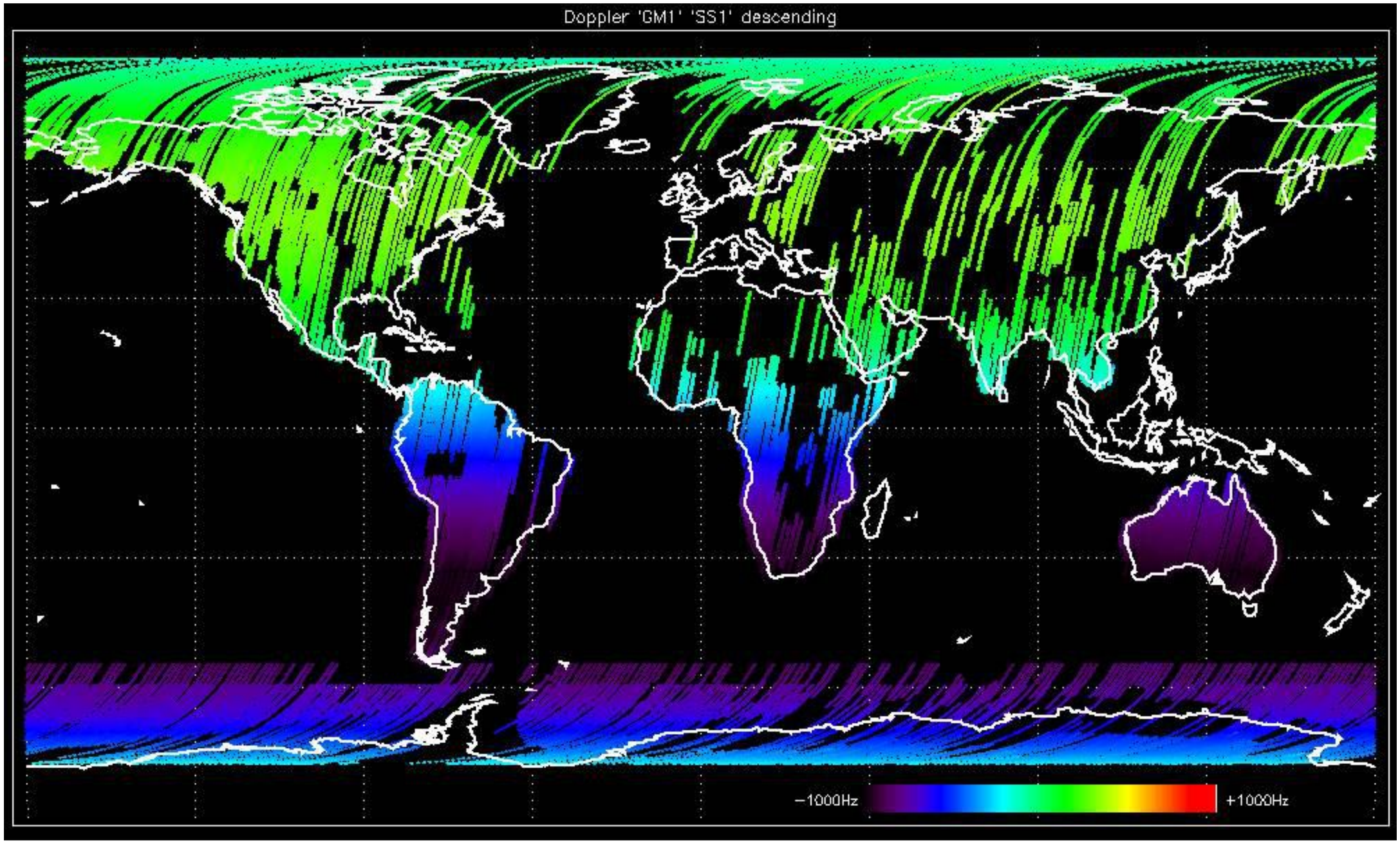

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

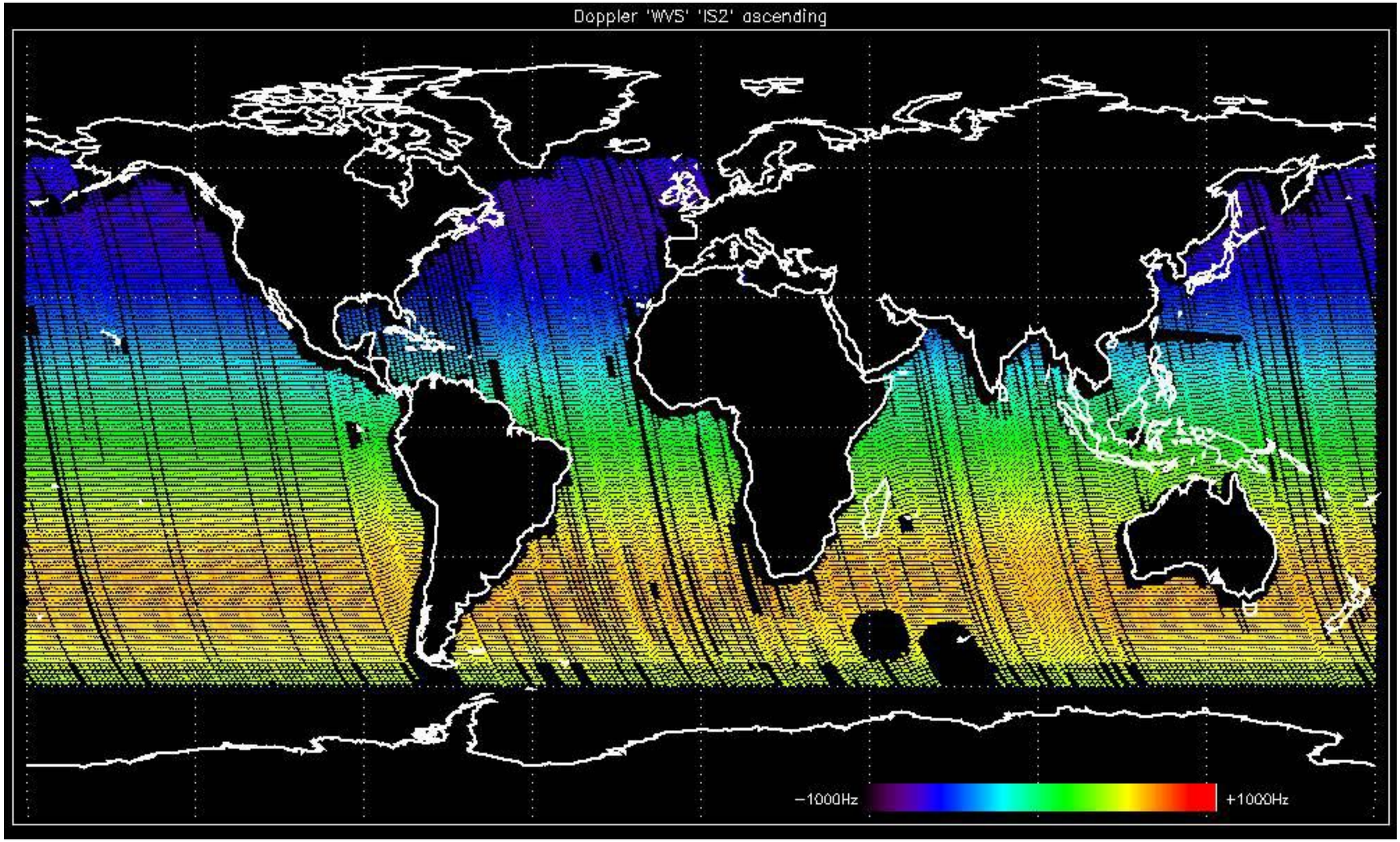

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

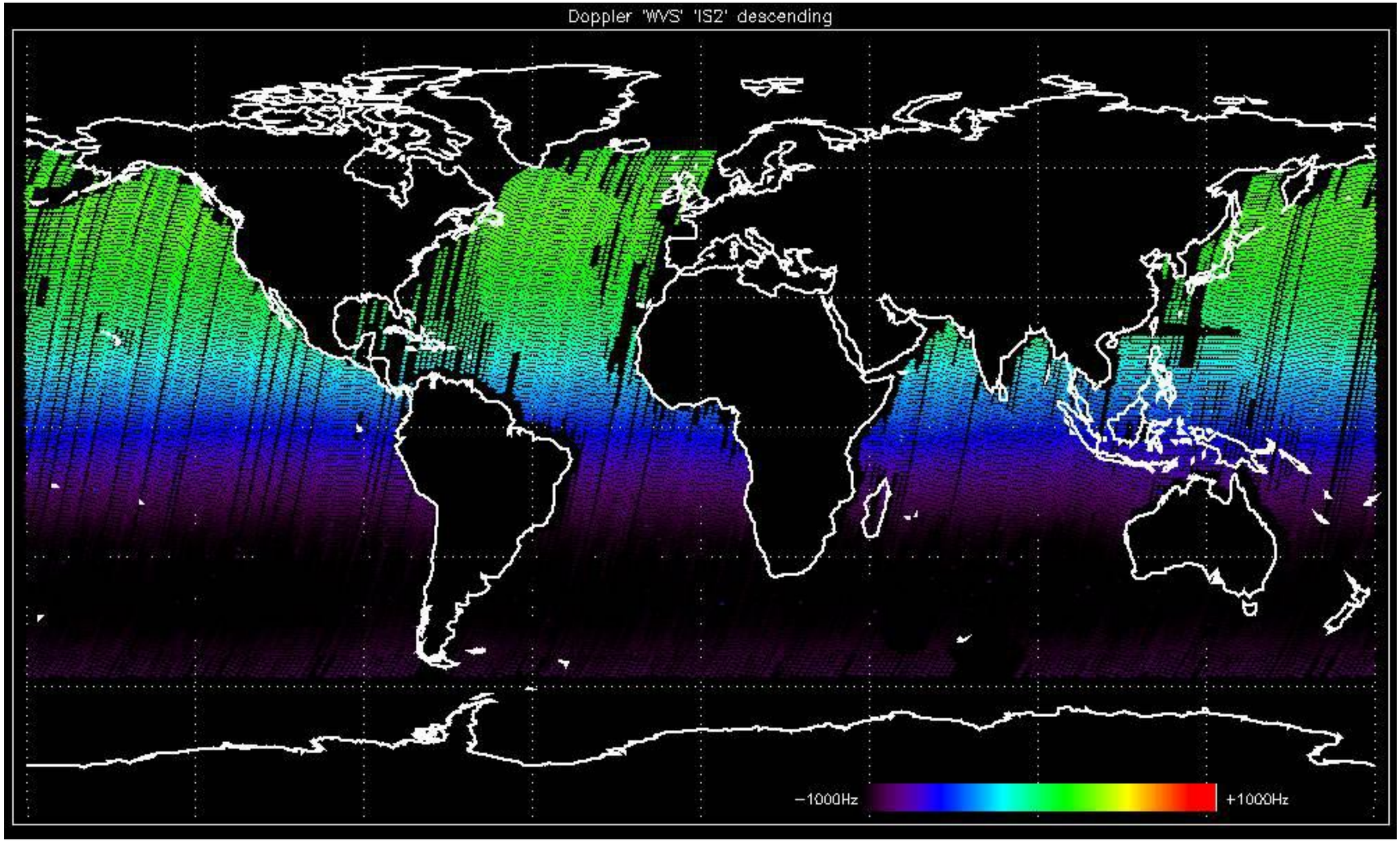
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

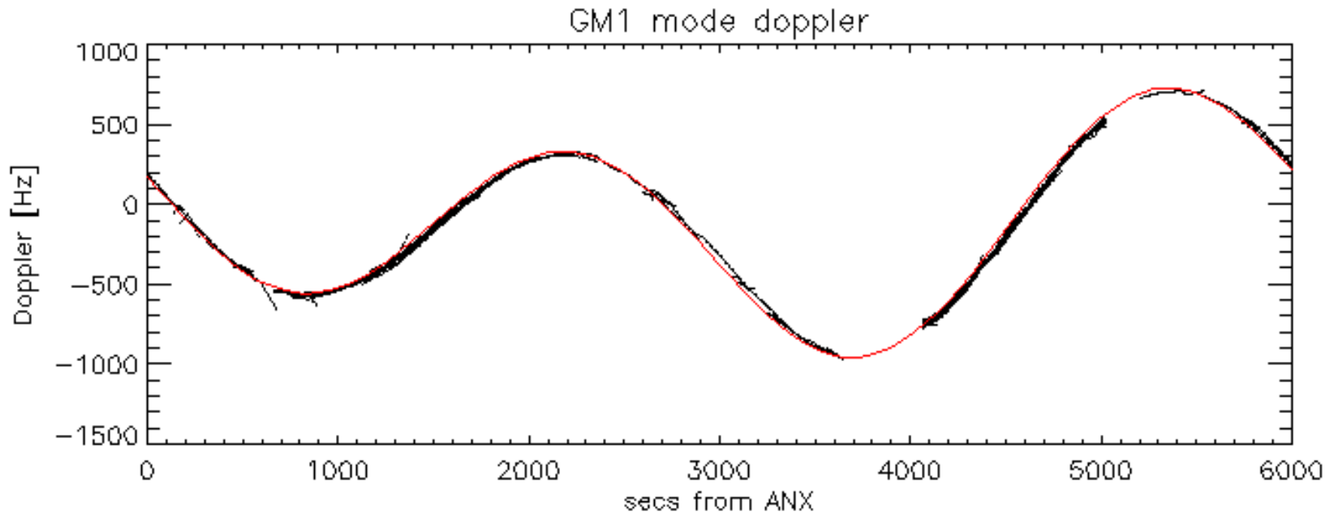
Preliminary report.The data is not yet controled

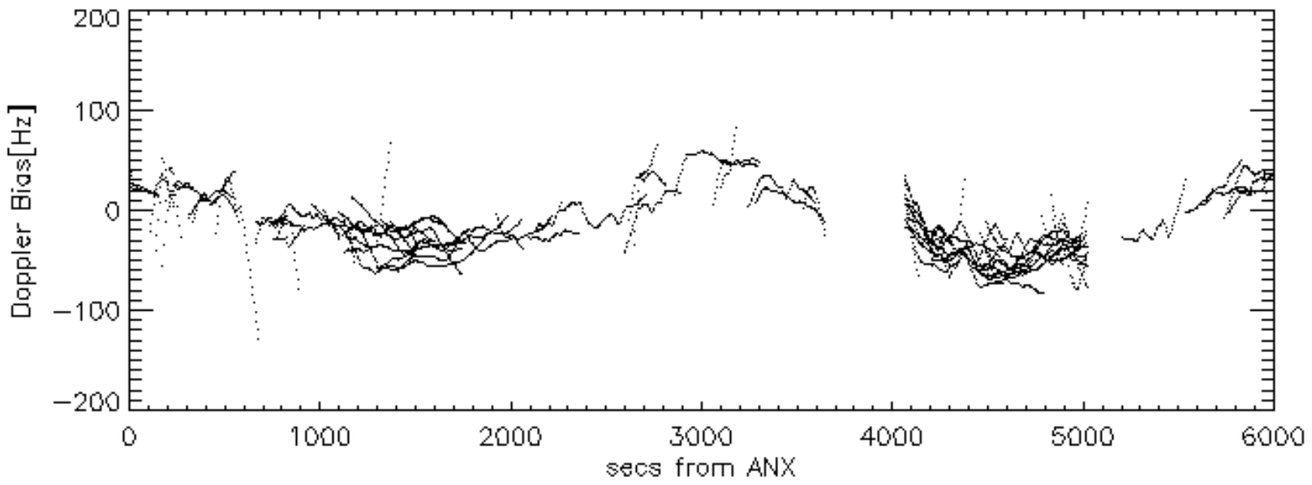

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

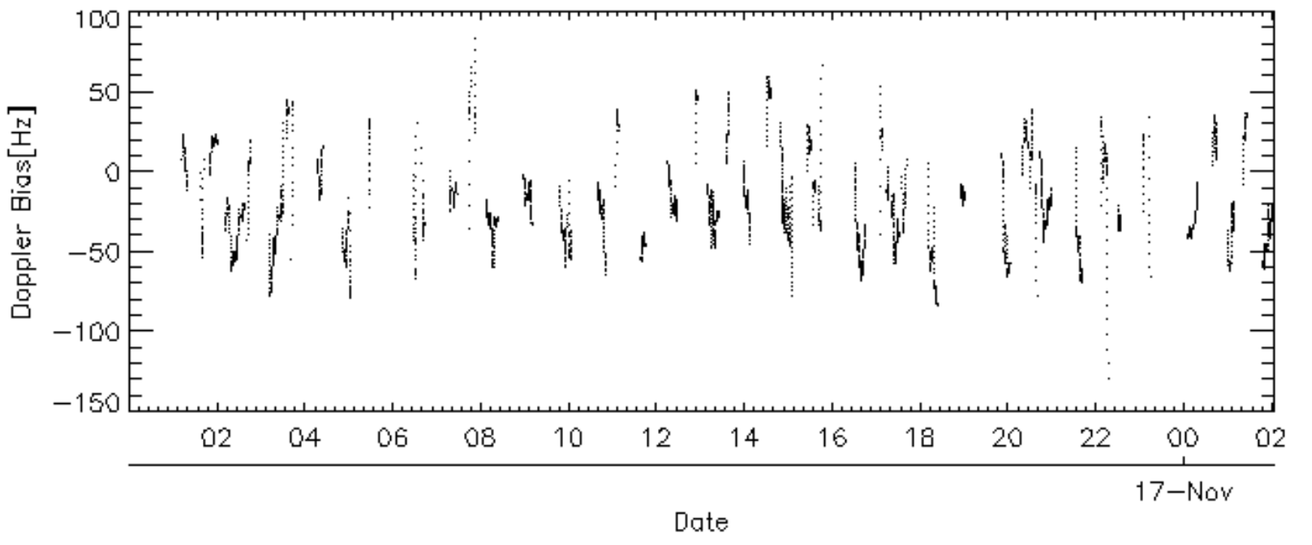

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

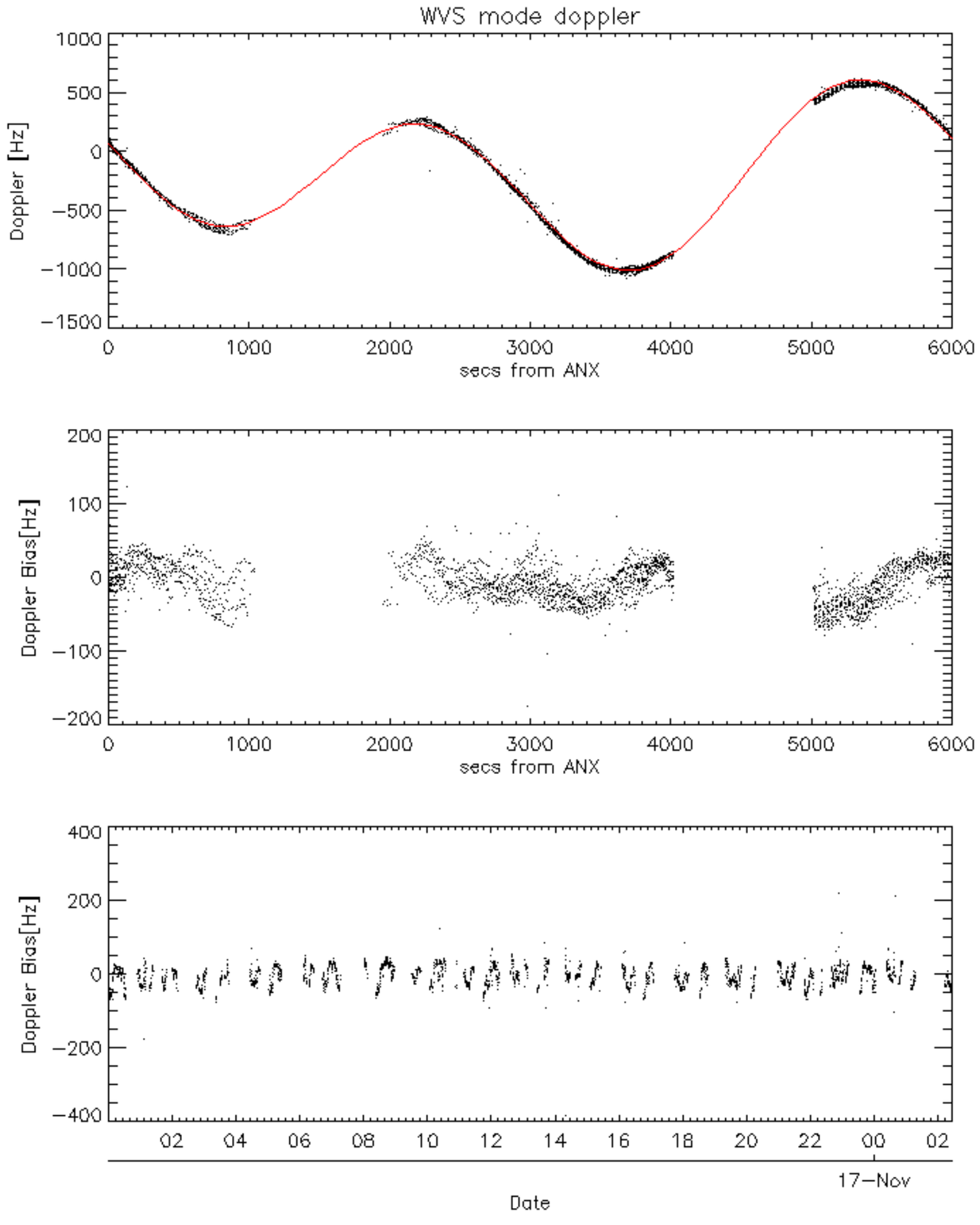

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

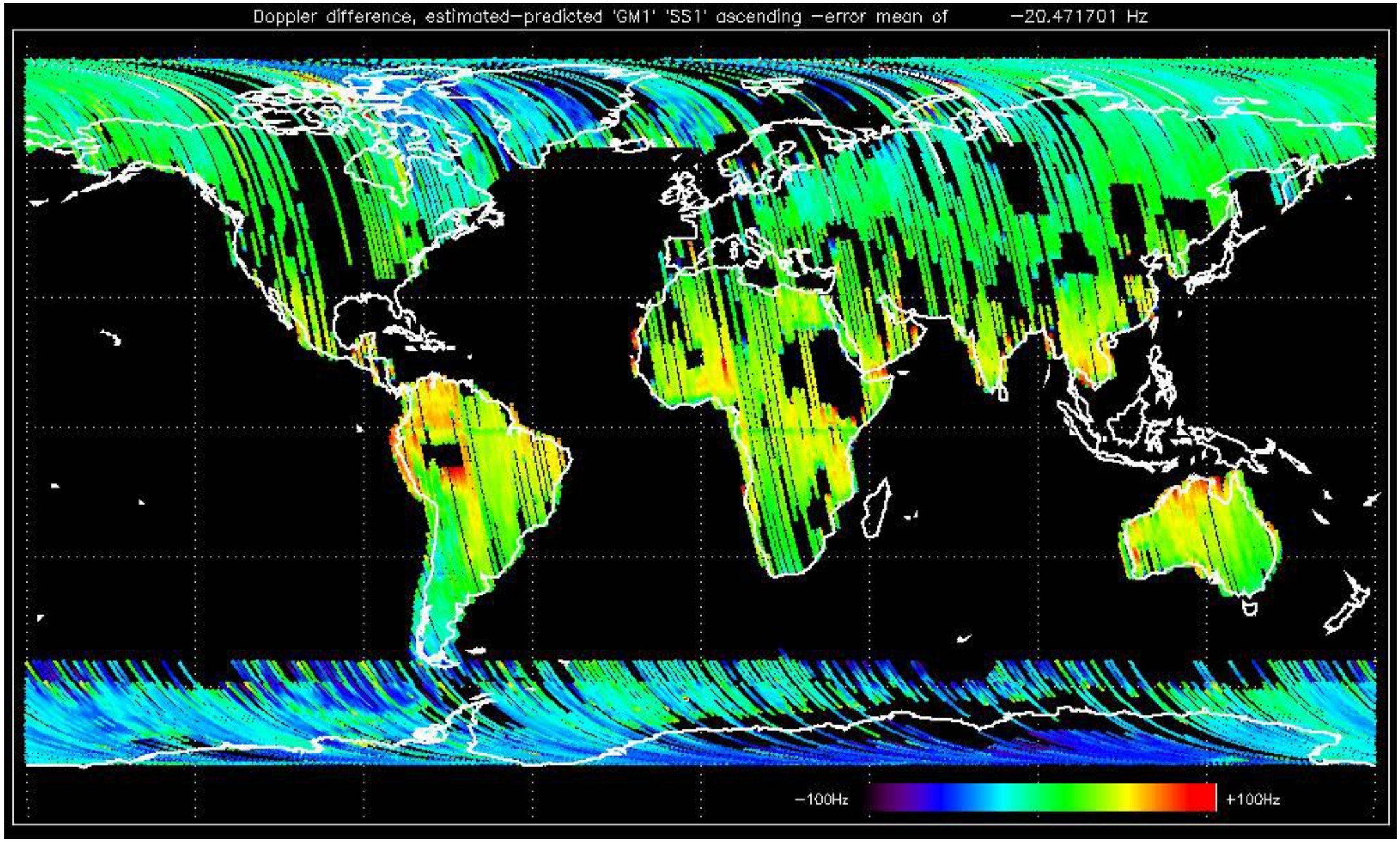

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

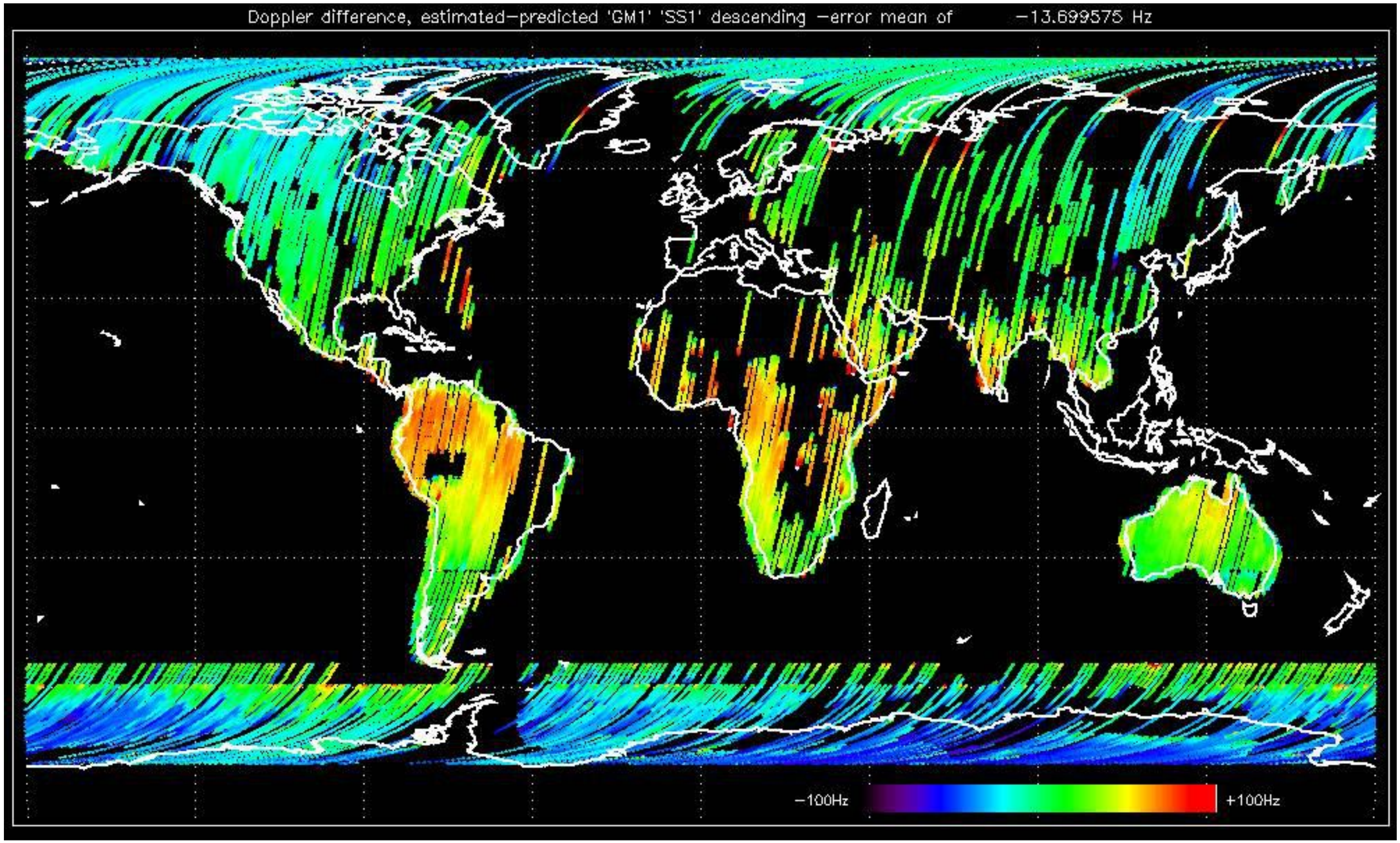

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

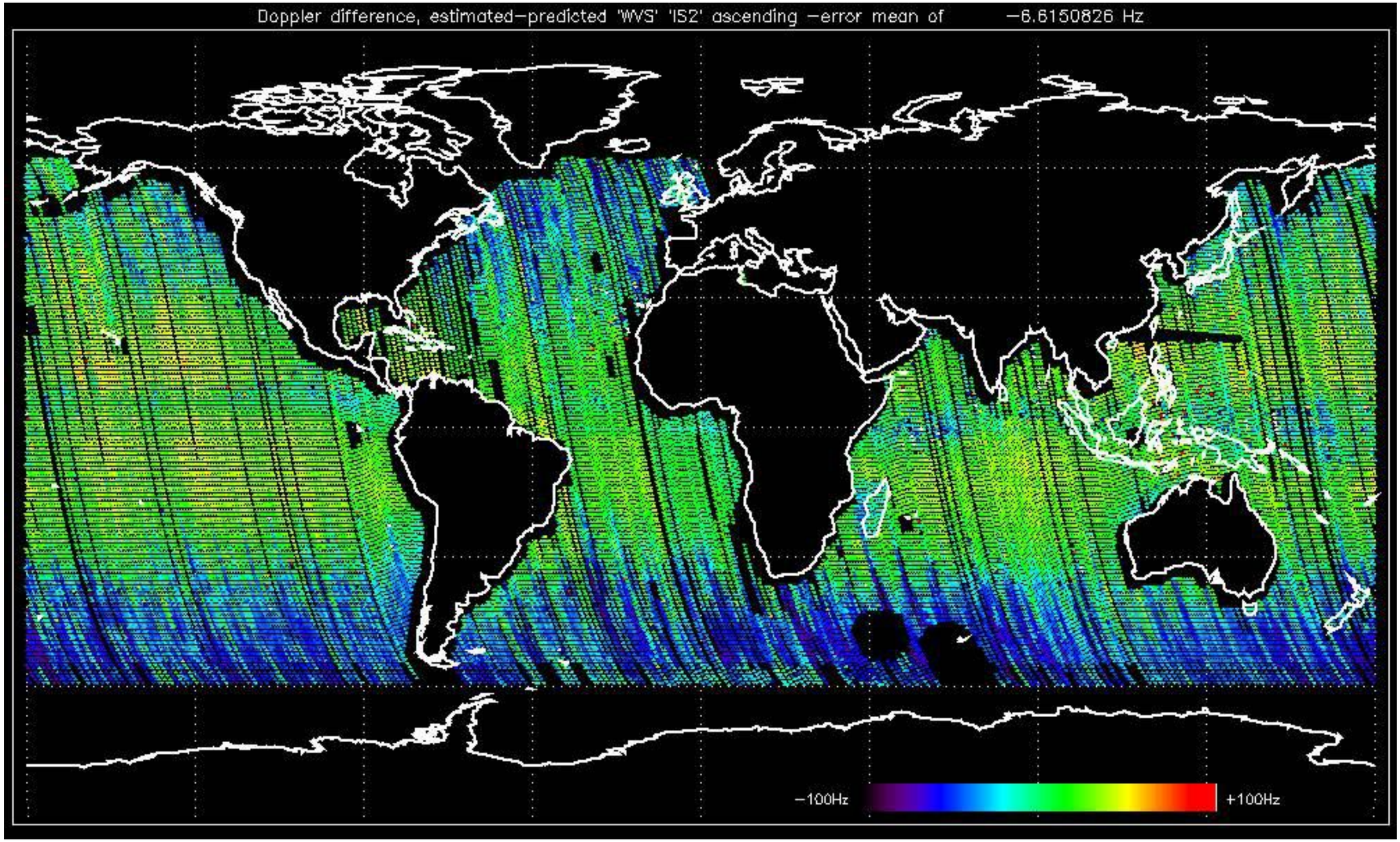

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

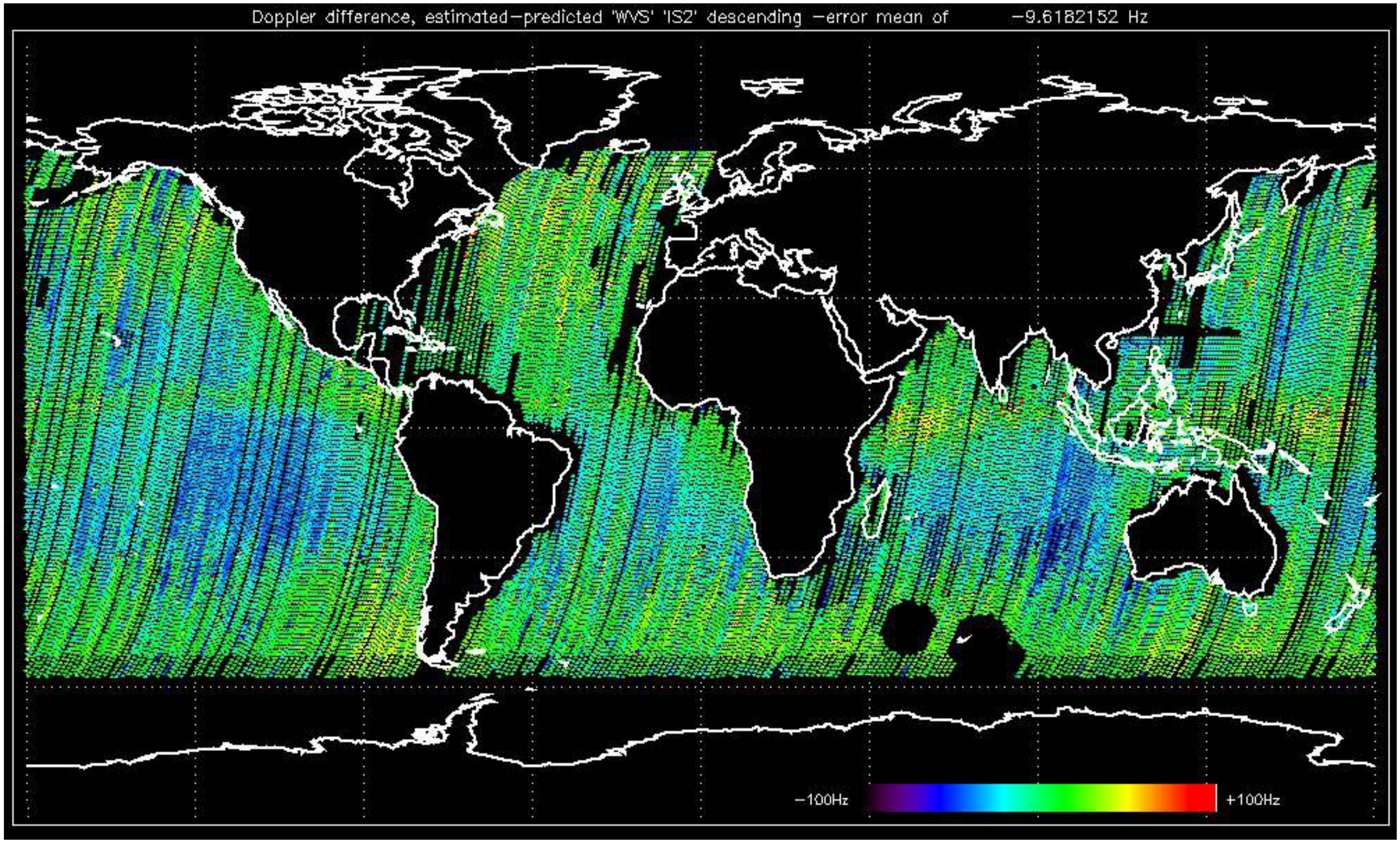

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
17−Nov
Date


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
02
04
06
08
10
12
14
16
18
20
22
00
02
17−Nov
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −20.471701 Hz
−100Hz
+100Hz

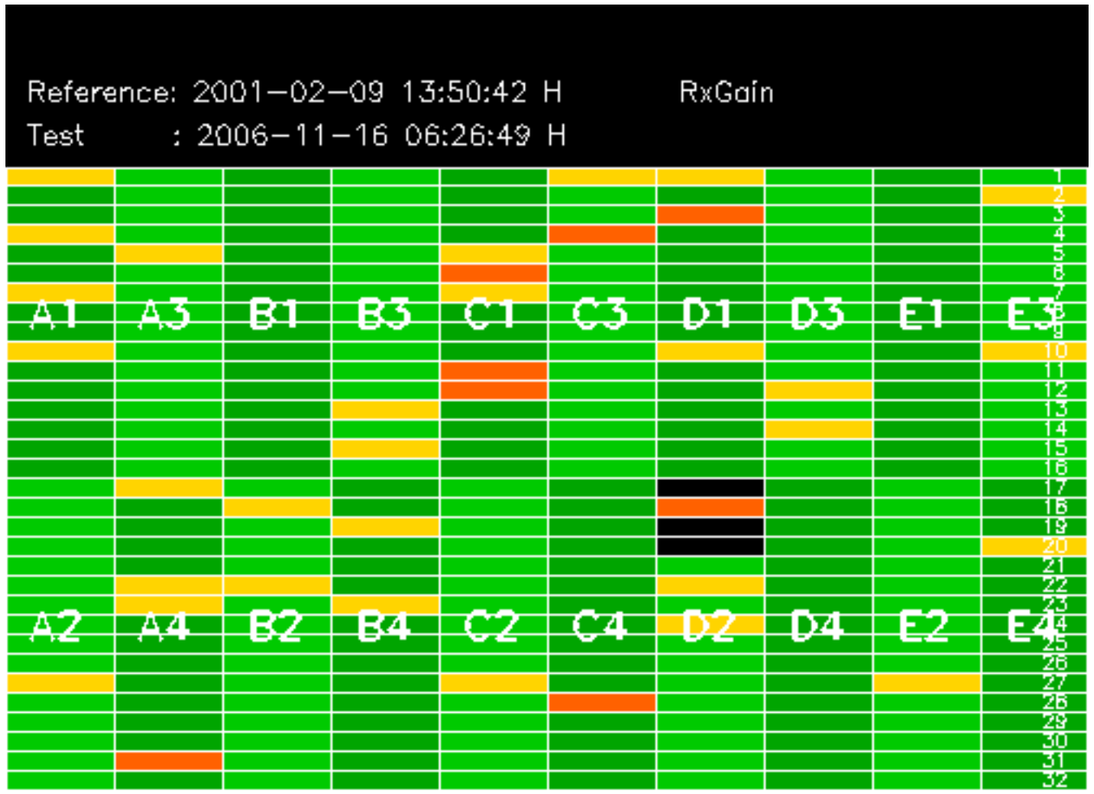

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −13.699575 Hz
−100Hz
+100Hz

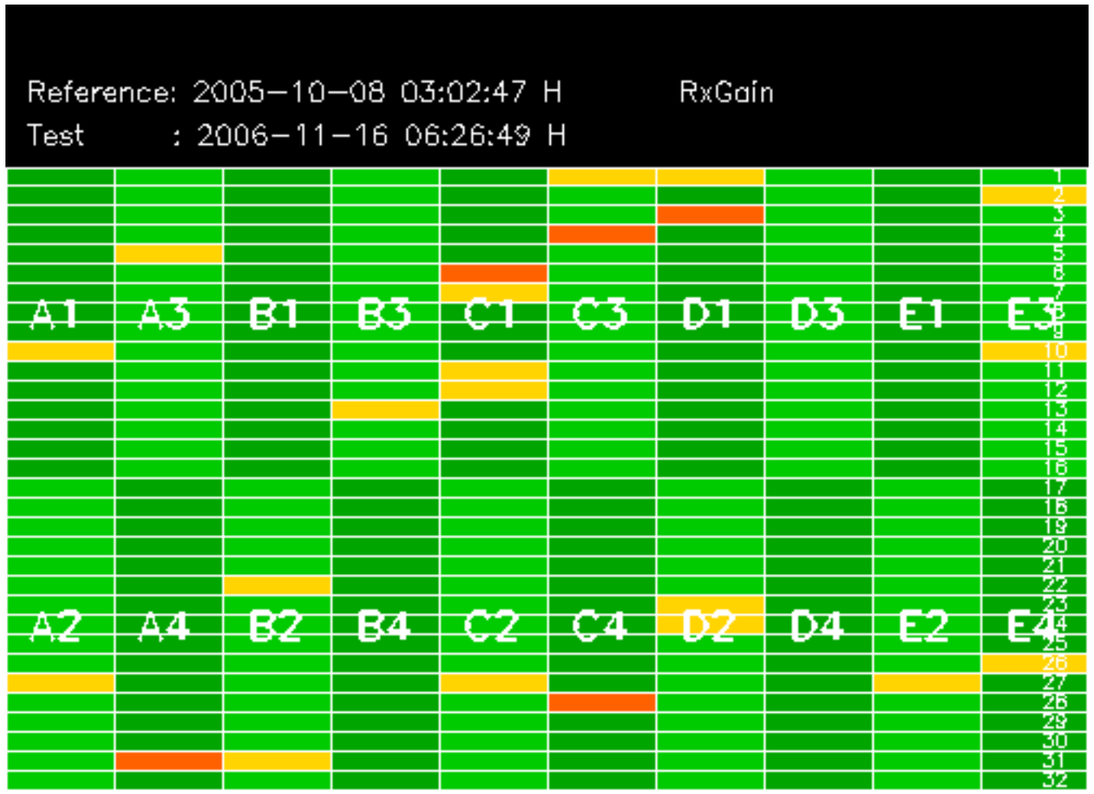

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −6.6150826 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −9.6182152 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-11-16 06:26:49 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2006-11-16 06:26:49 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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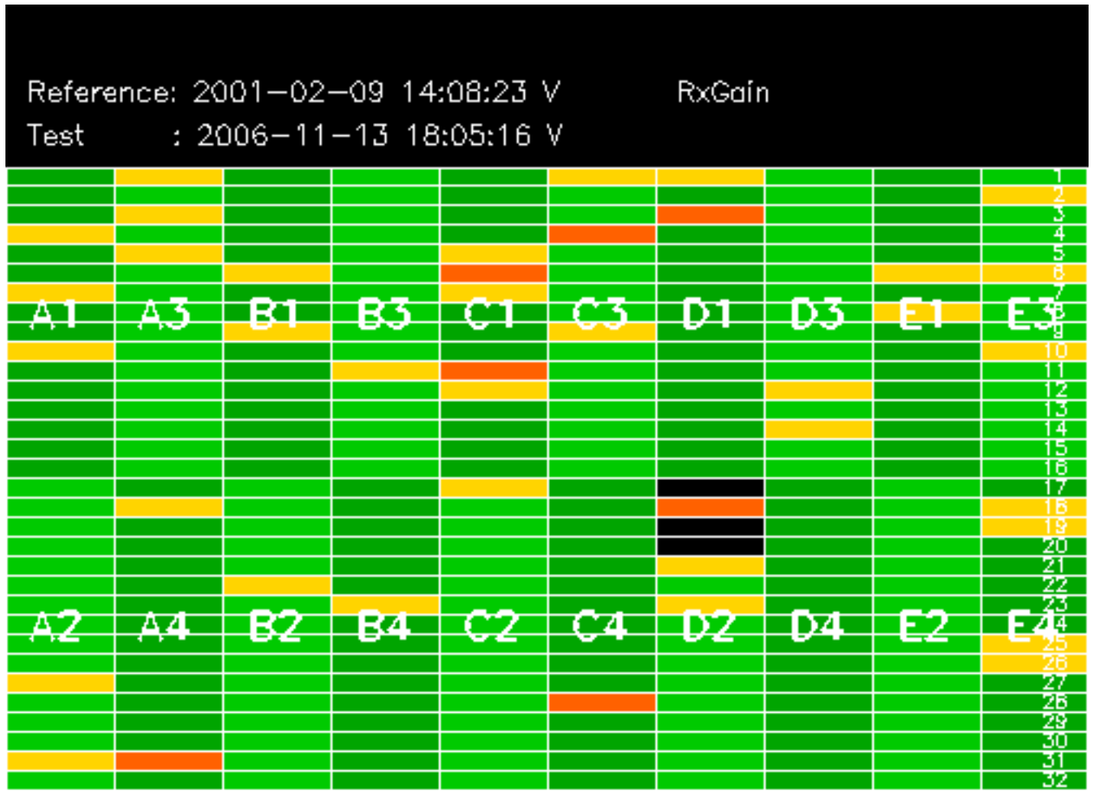
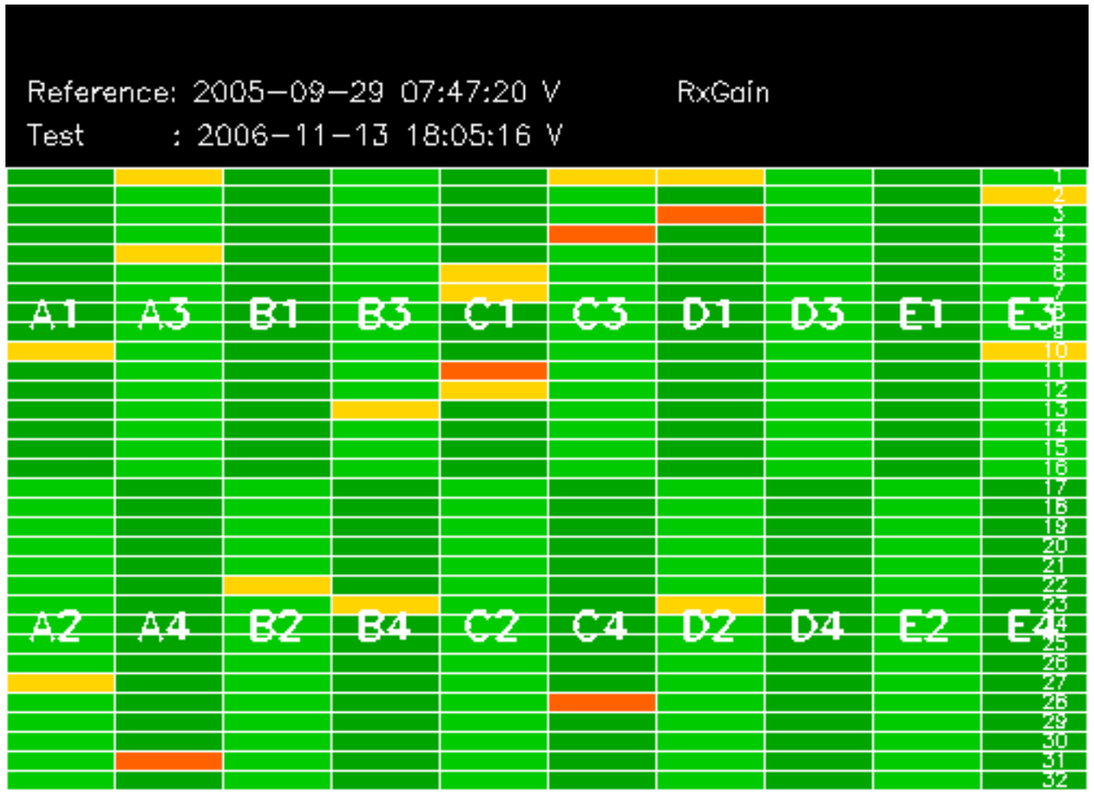

Reference: 2001-02-09 14:08:23 V
Test : 2006-11-13 18:05:16 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-11-13 18:05:16 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
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C4
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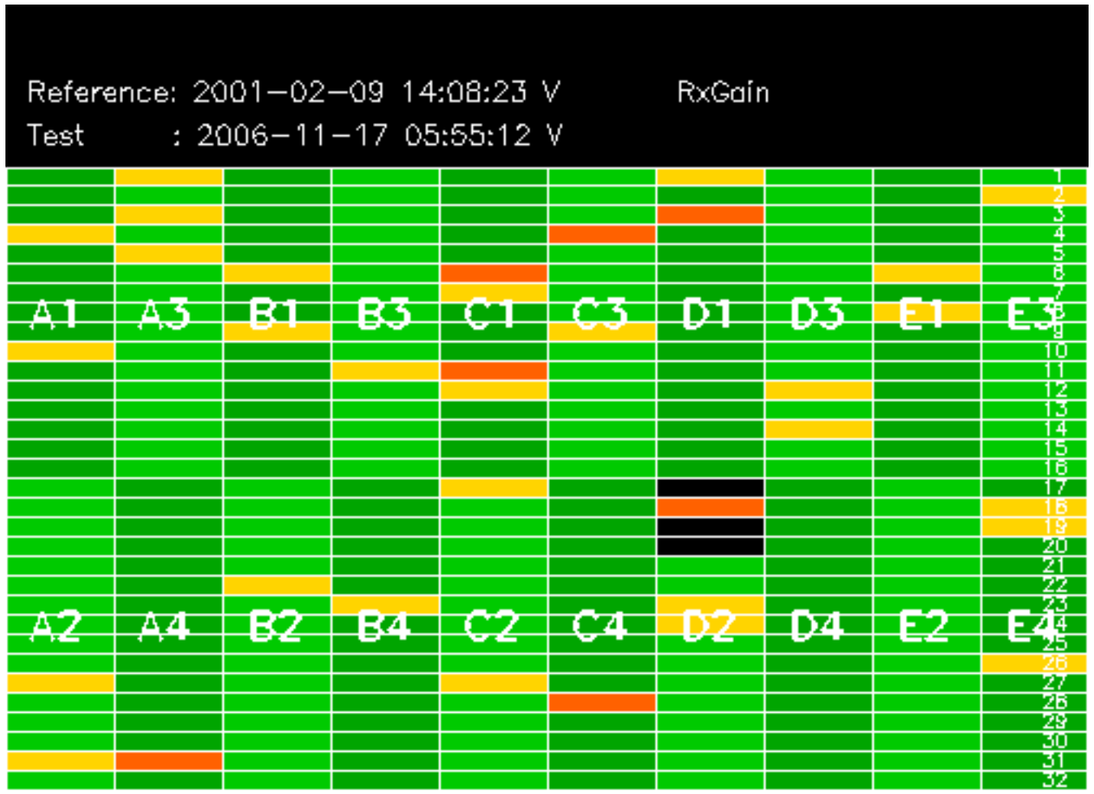
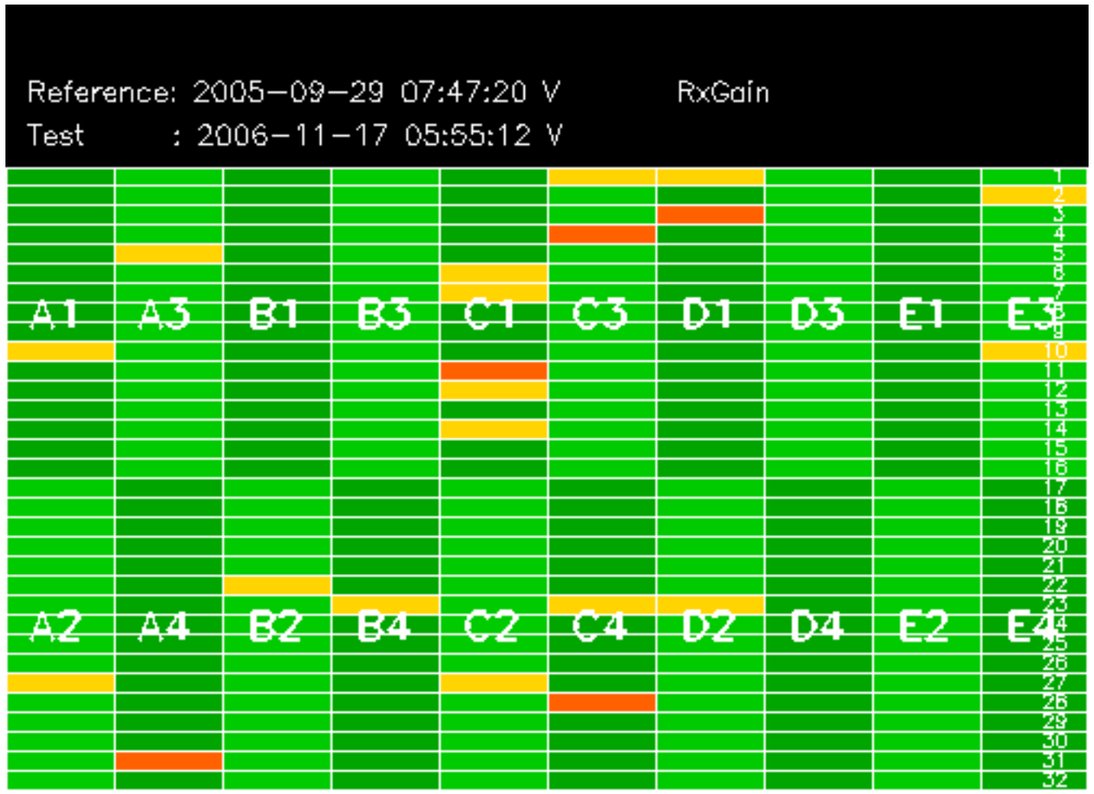

Reference: 2001-02-09 14:08:23 V
Test : 2006-11-17 05:55:12 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-11-17 05:55:12 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
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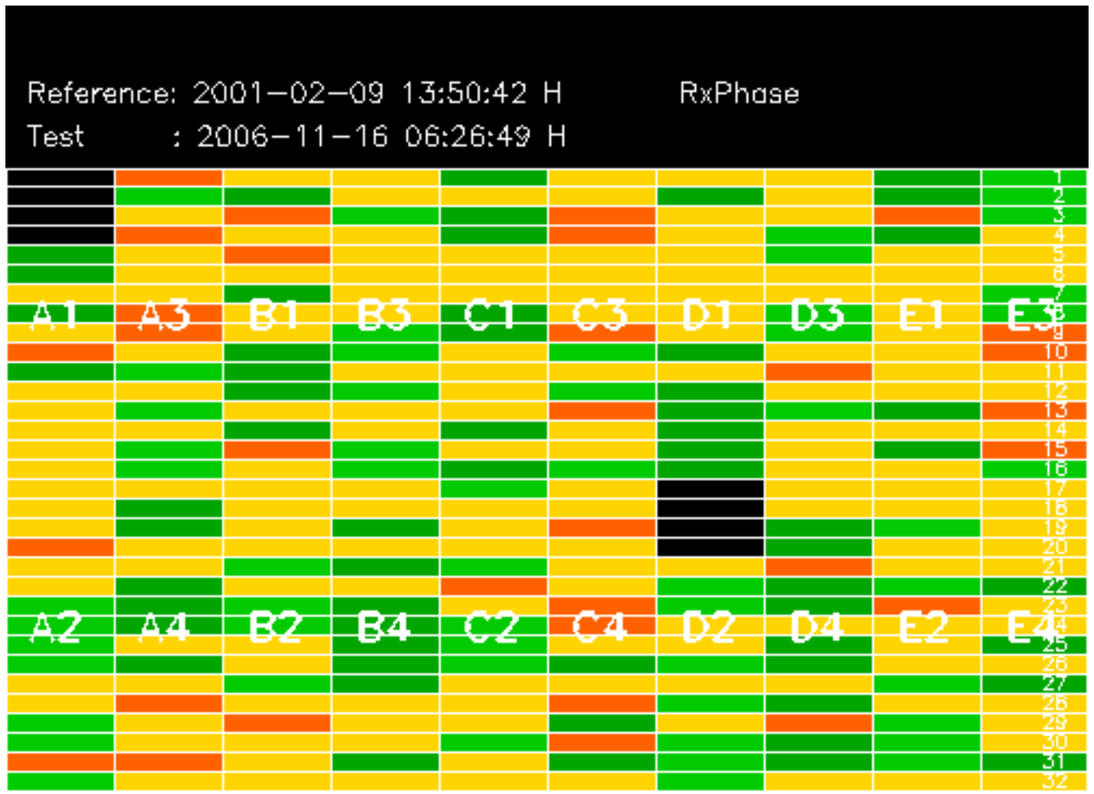
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-11-16 06:26:49 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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Reference: 2005-10-08 03:02:47 H
Test : 2006-11-16 06:26:49 H
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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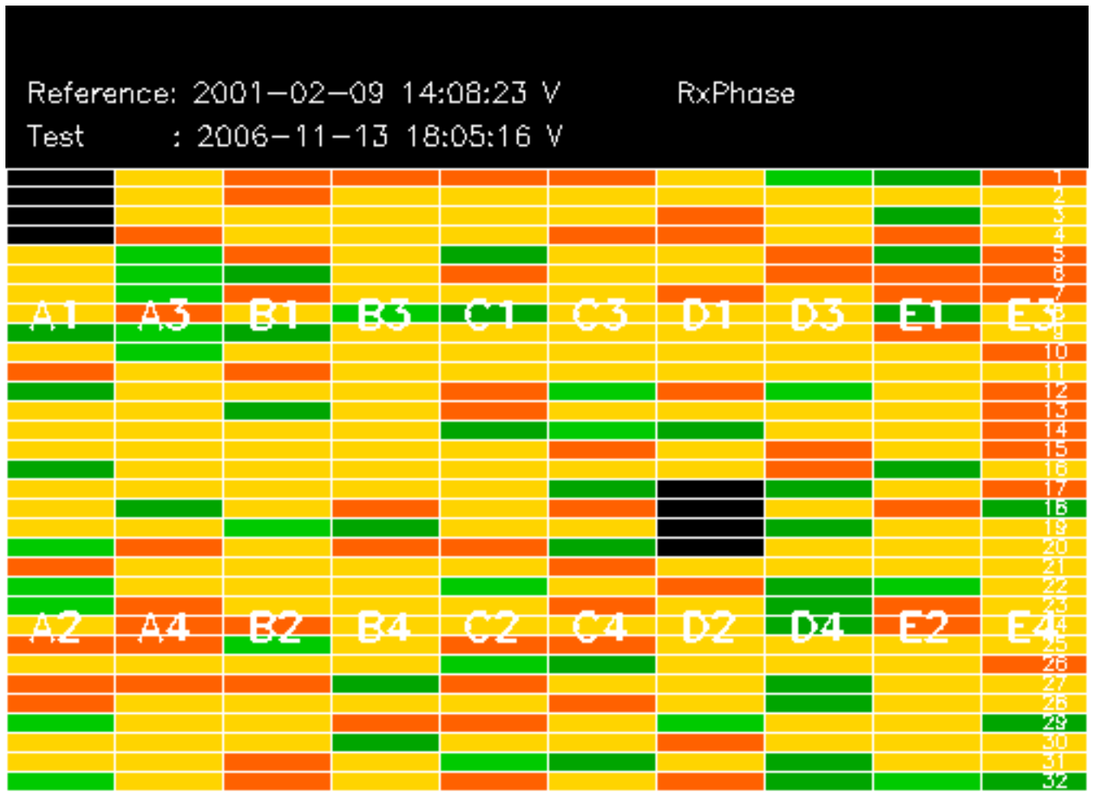
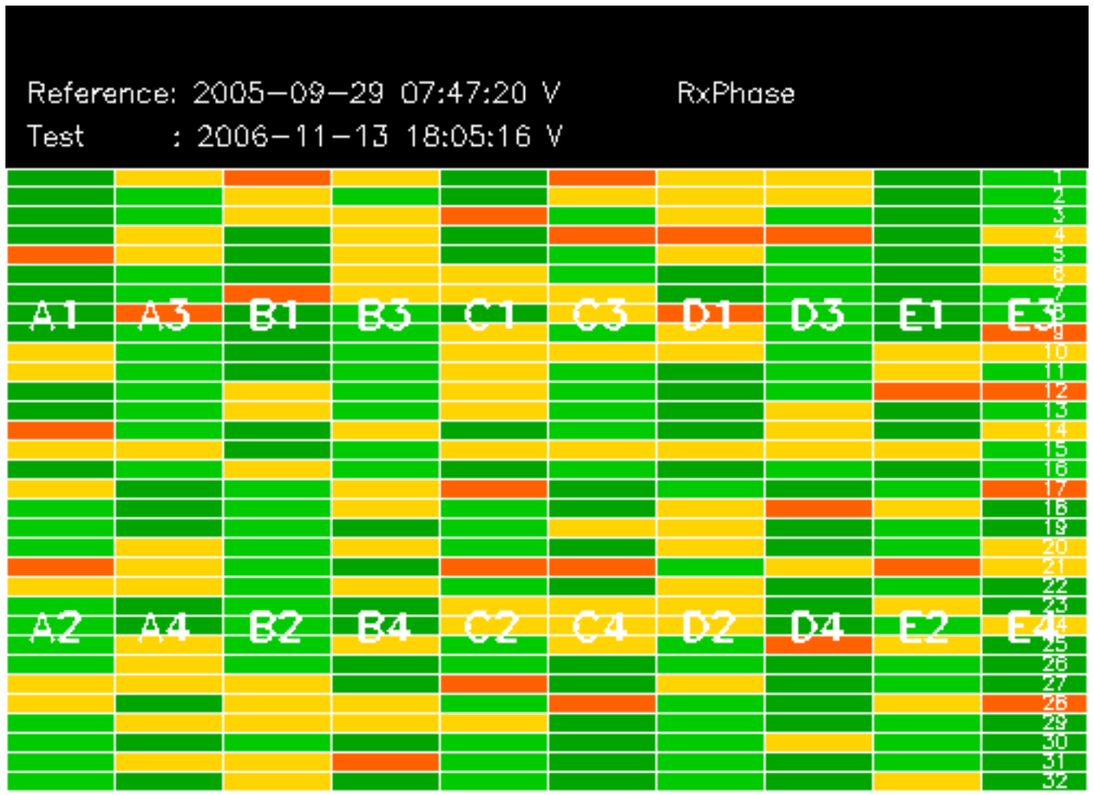

Reference: 2001-02-09 14:08:23 V
Test : 2006-11-13 18:05:16 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-11-13 18:05:16 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
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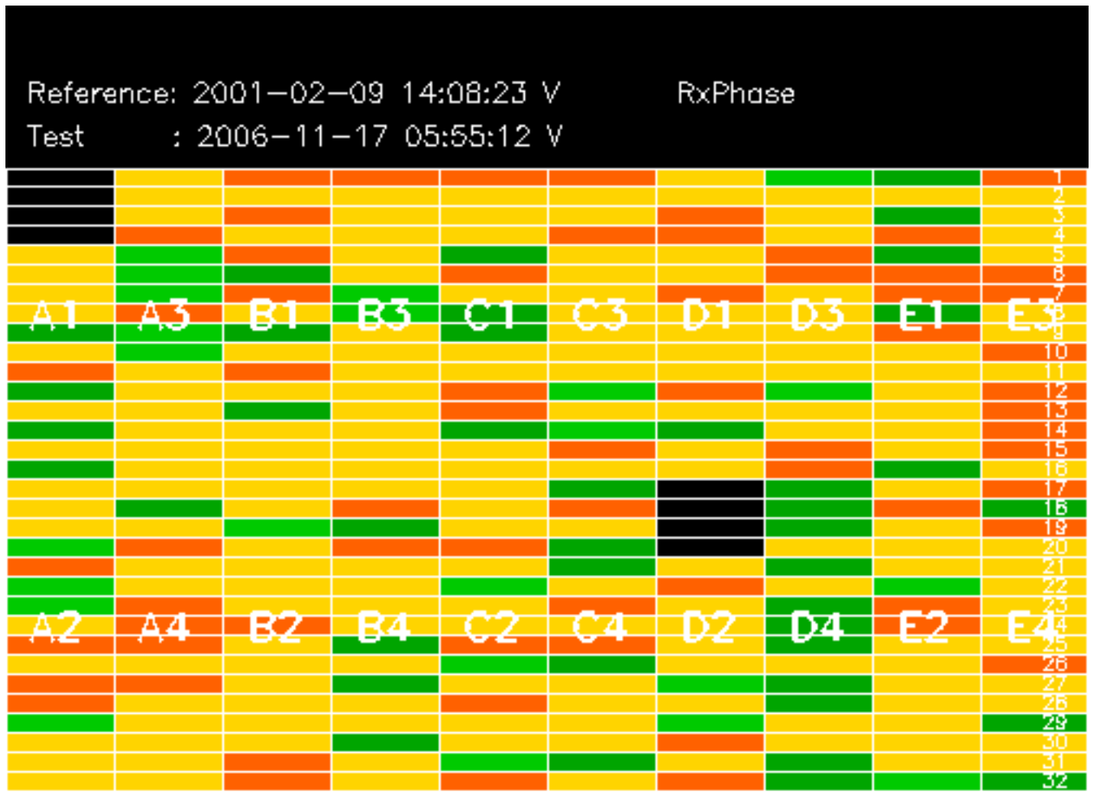
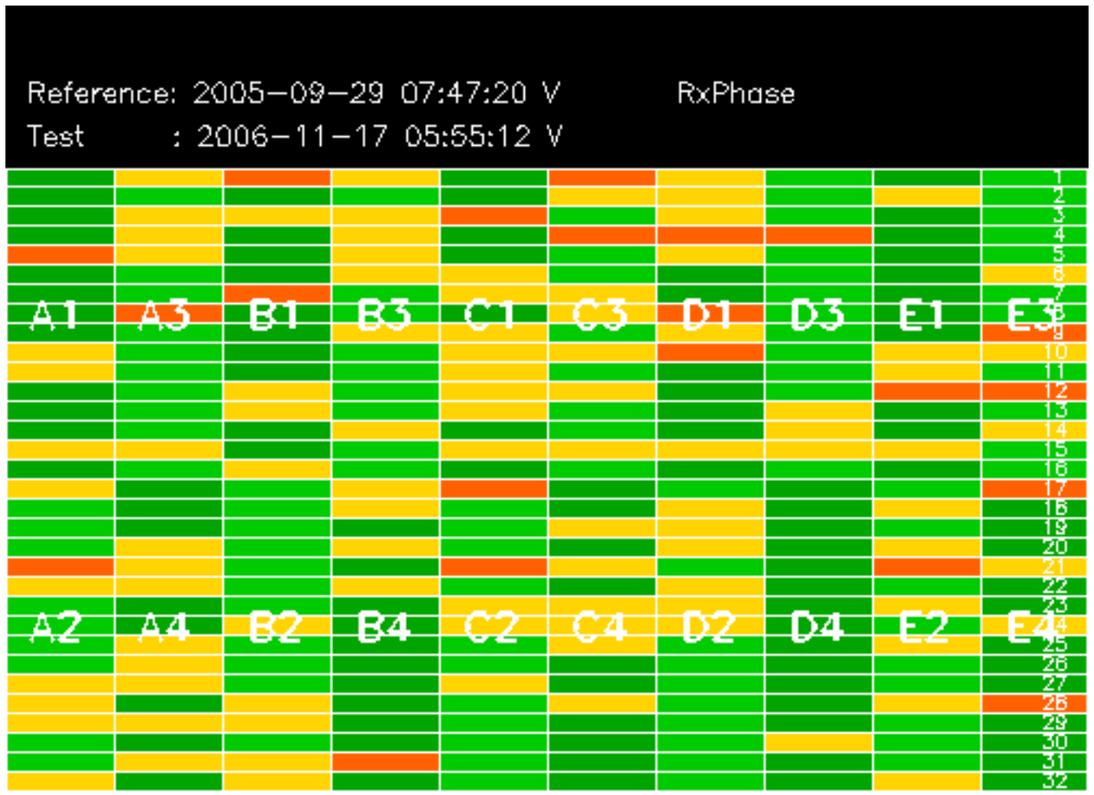

Reference: 2001-02-09 14:08:23 V
RxPhase
Test : 2006-11-17 05:55:12 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-11-17 05:55:12 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
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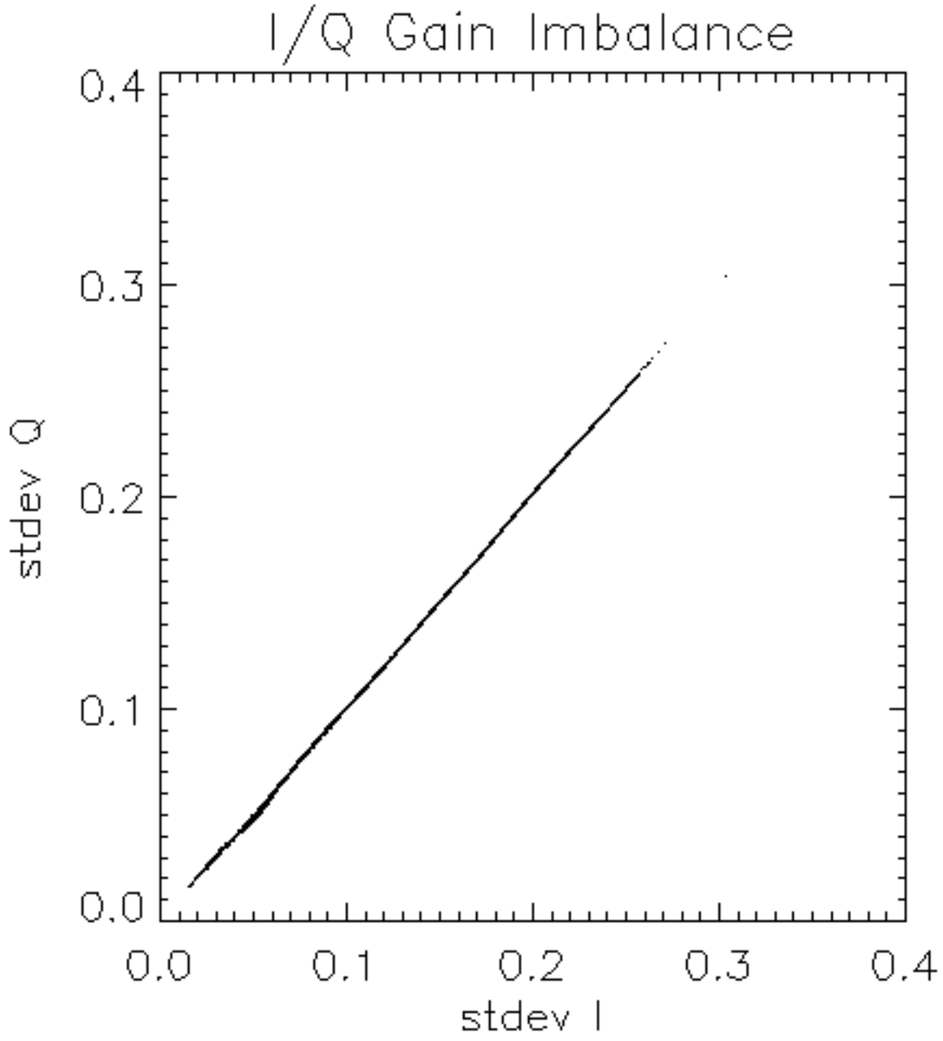
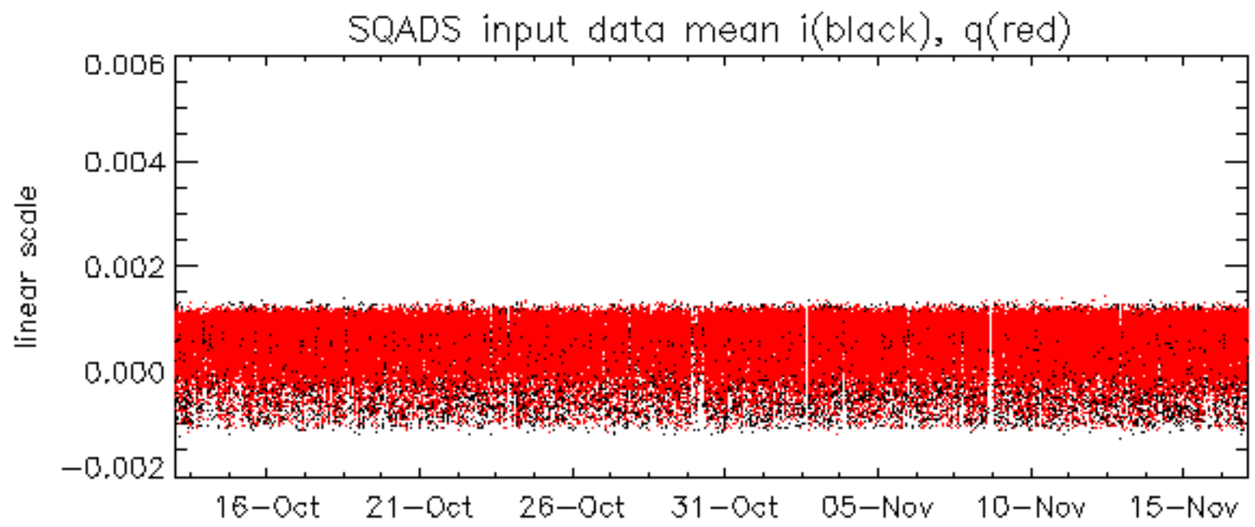
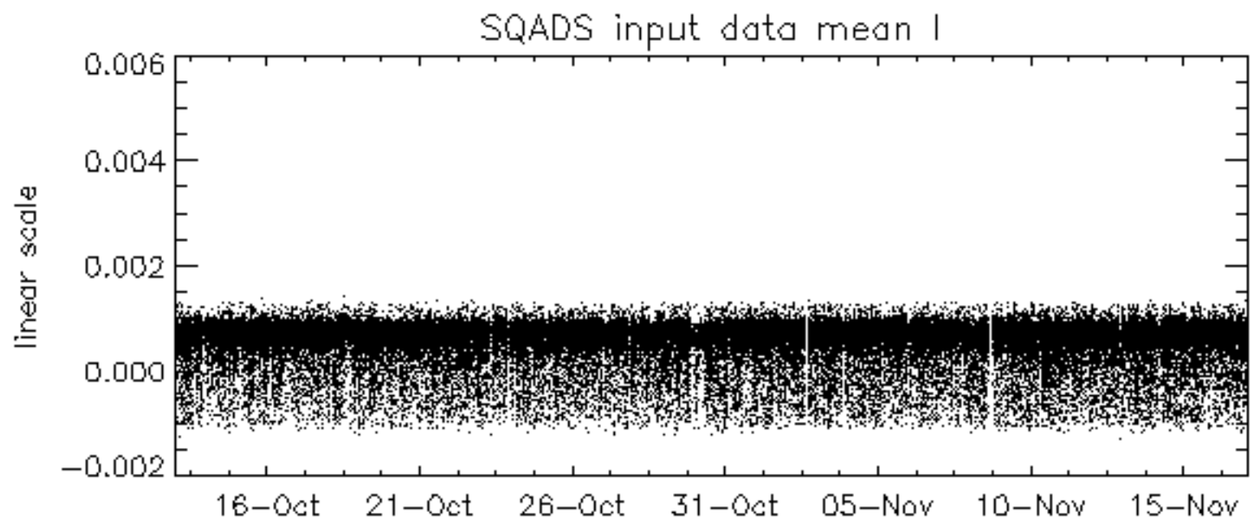
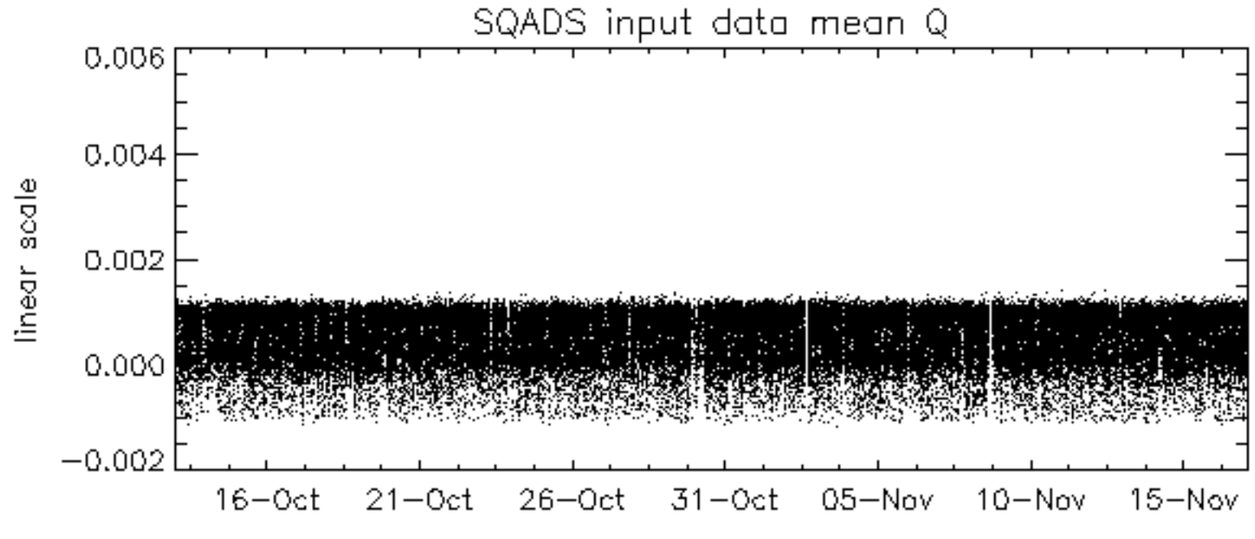
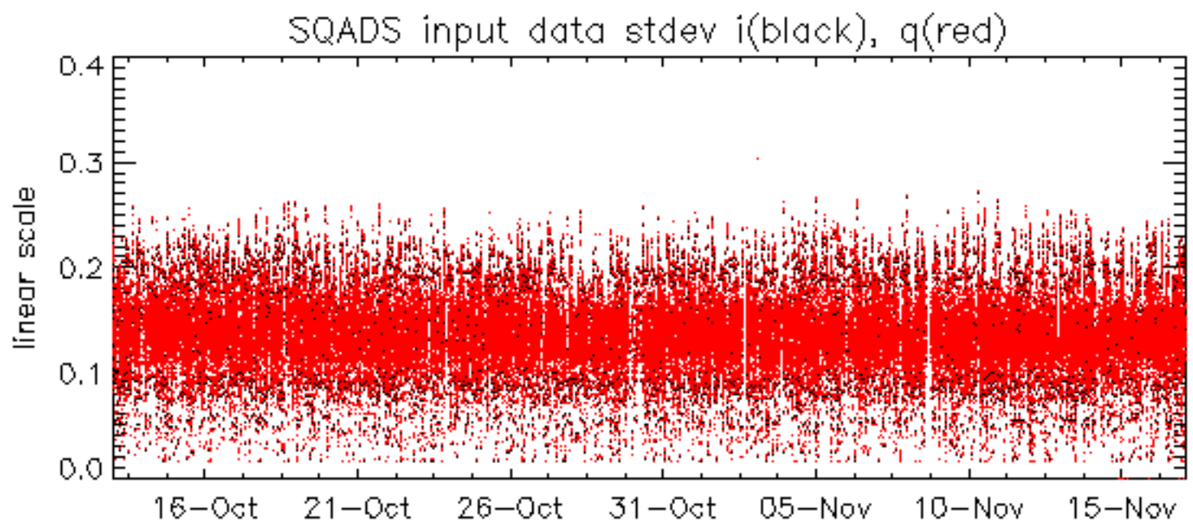
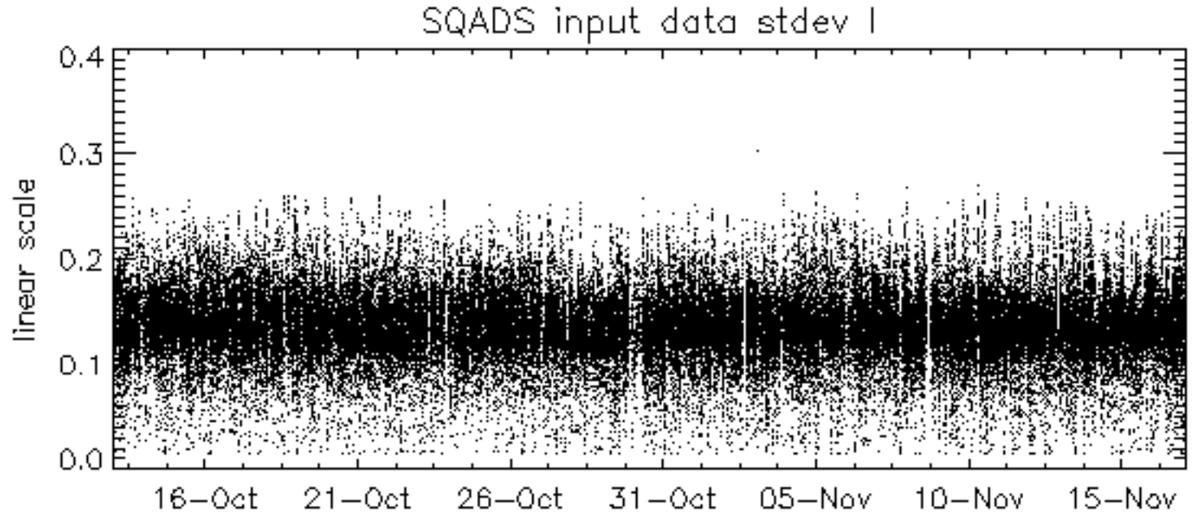

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

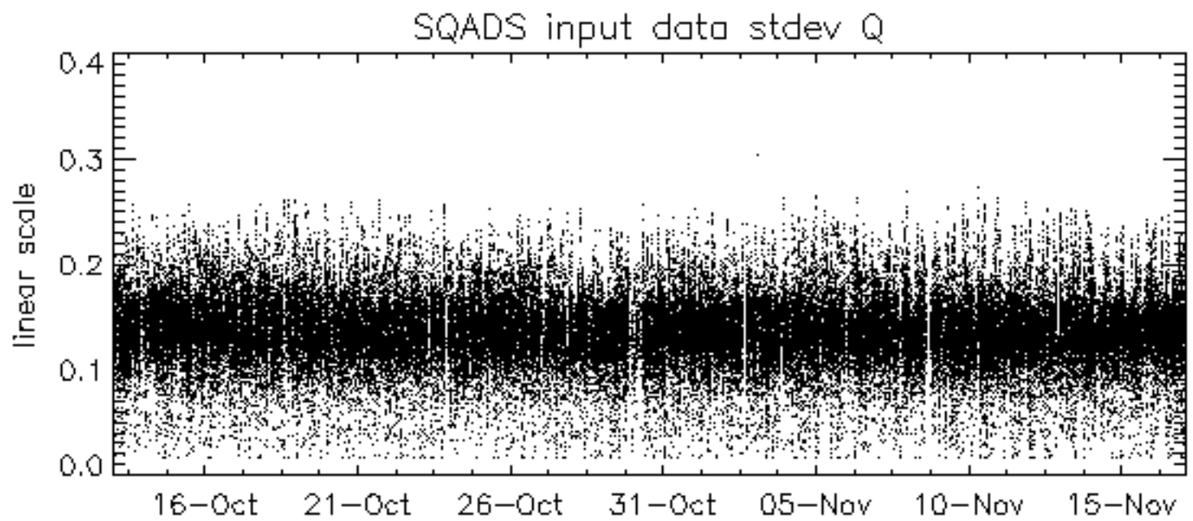

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Oct
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov

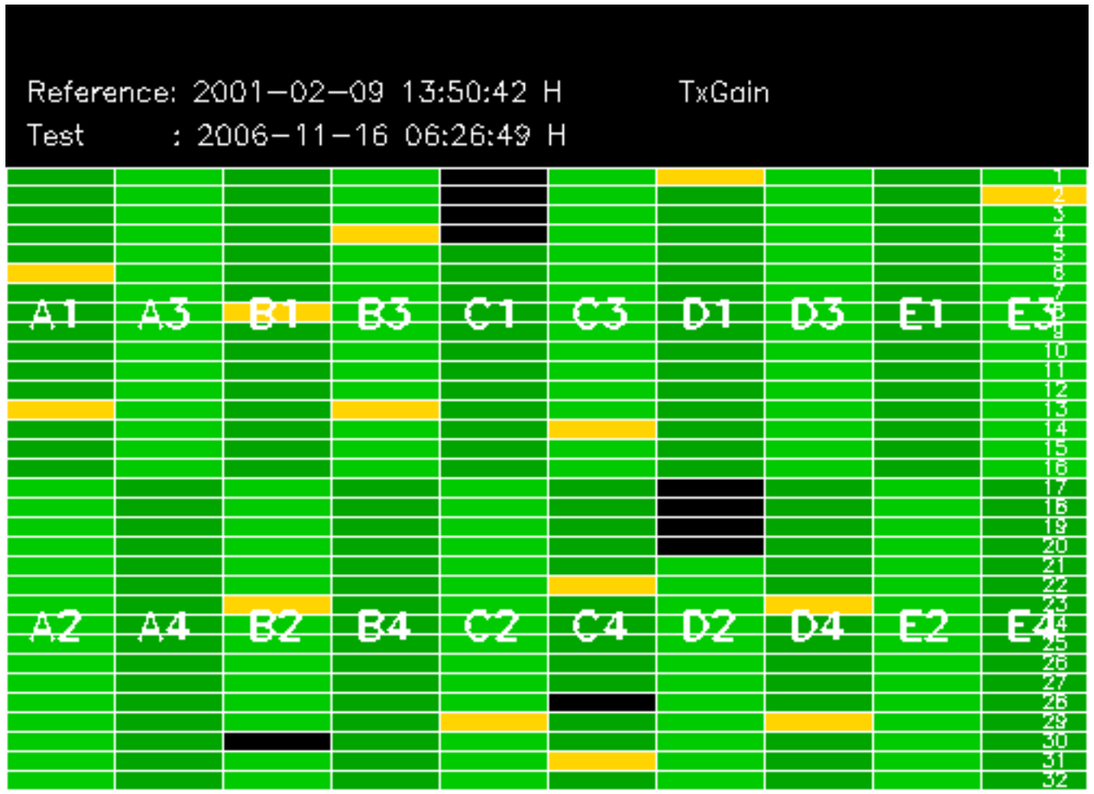

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Oct
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
16−Oct
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov


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


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
16−Oct
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
16−Oct
21−Oct
26−Oct
31−Oct
05−Nov
10−Nov
15−Nov


Reference: 2001-02-09 13:50:42 H
Test : 2006-11-16 06:26:49 H
TxGain
A1
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B3
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A2
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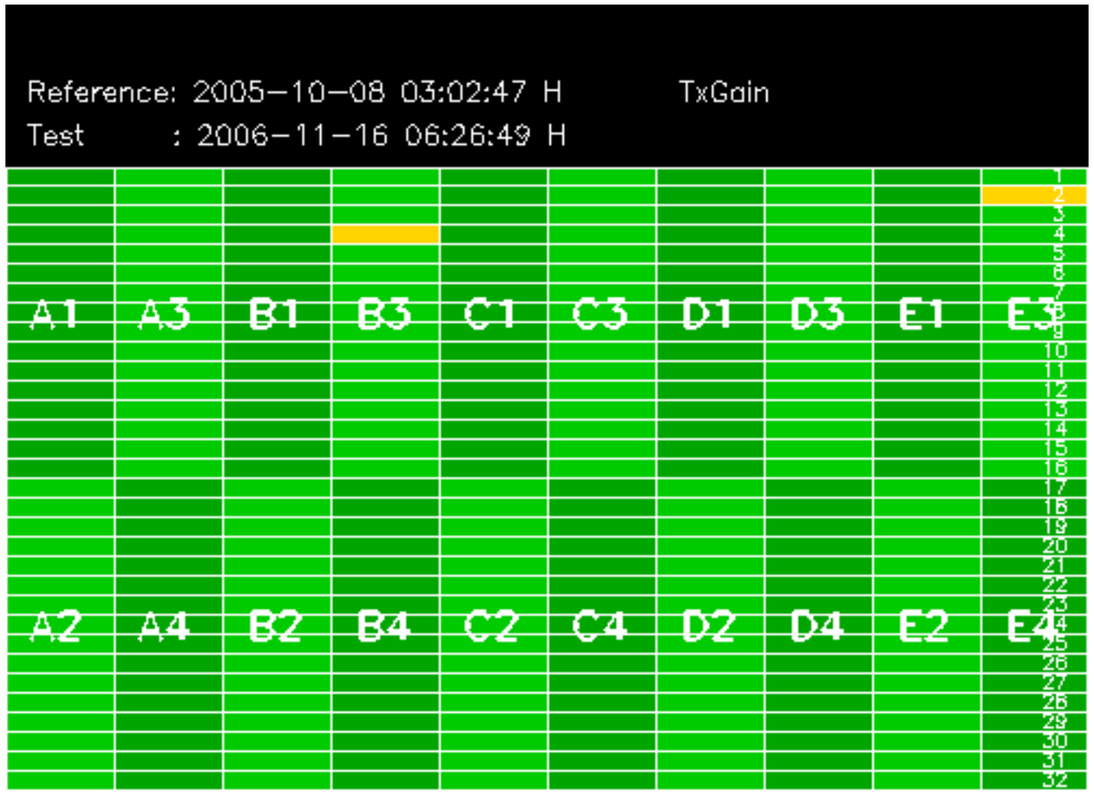
Reference: 2005-10-08 03:02:47 H
Test : 2006-11-16 06:26:49 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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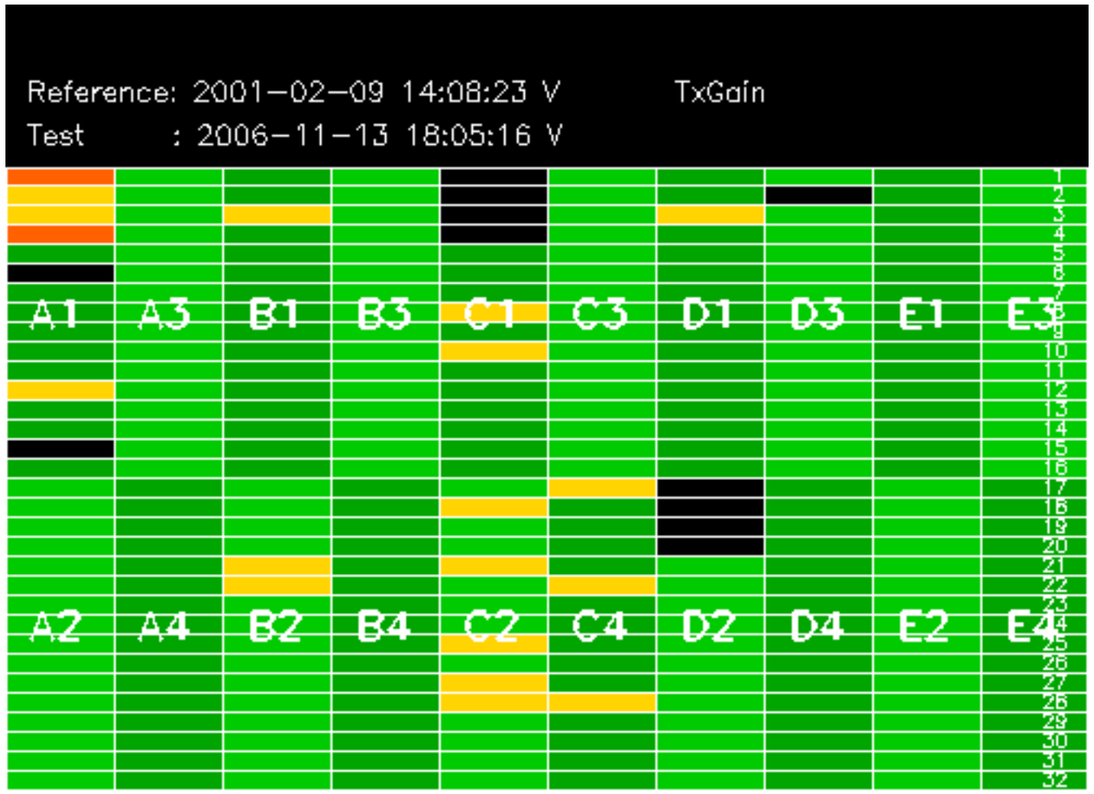
Reference: 2001-02-09 14:08:23 V
Test : 2006-11-13 18:05:16 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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B4
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C4
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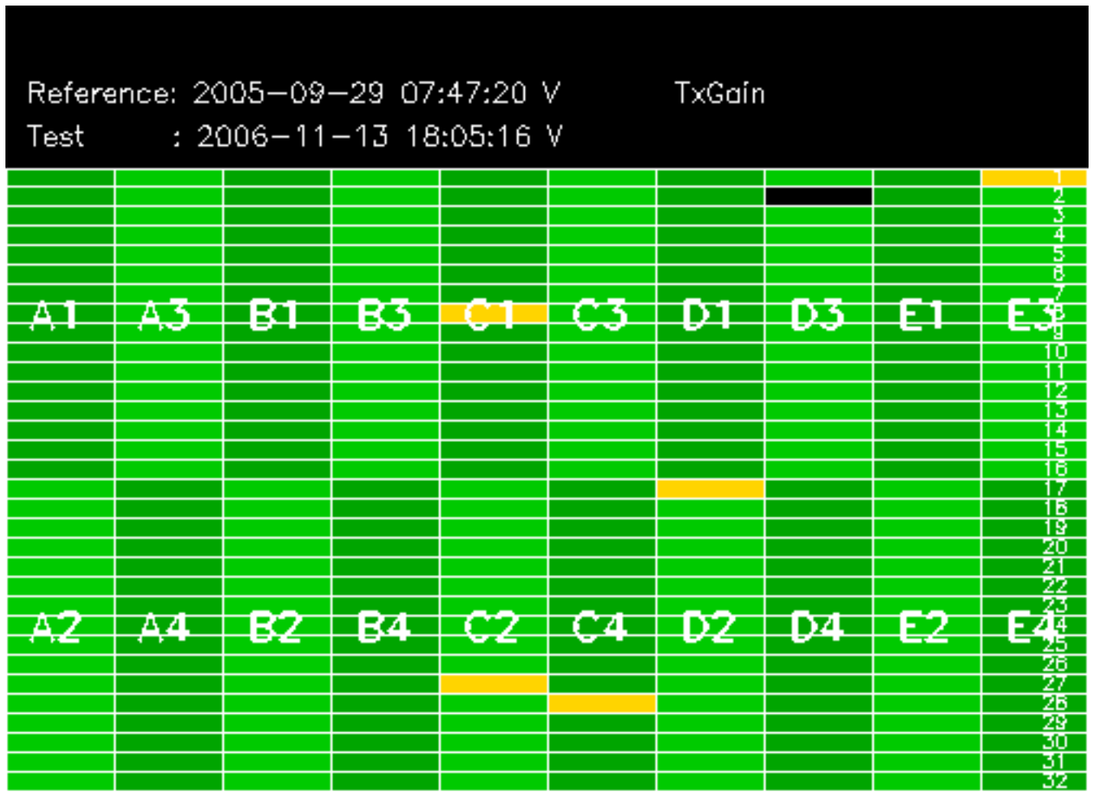
Reference: 2005-09-29 07:47:20 V
Test : 2006-11-13 18:05:16 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
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B4
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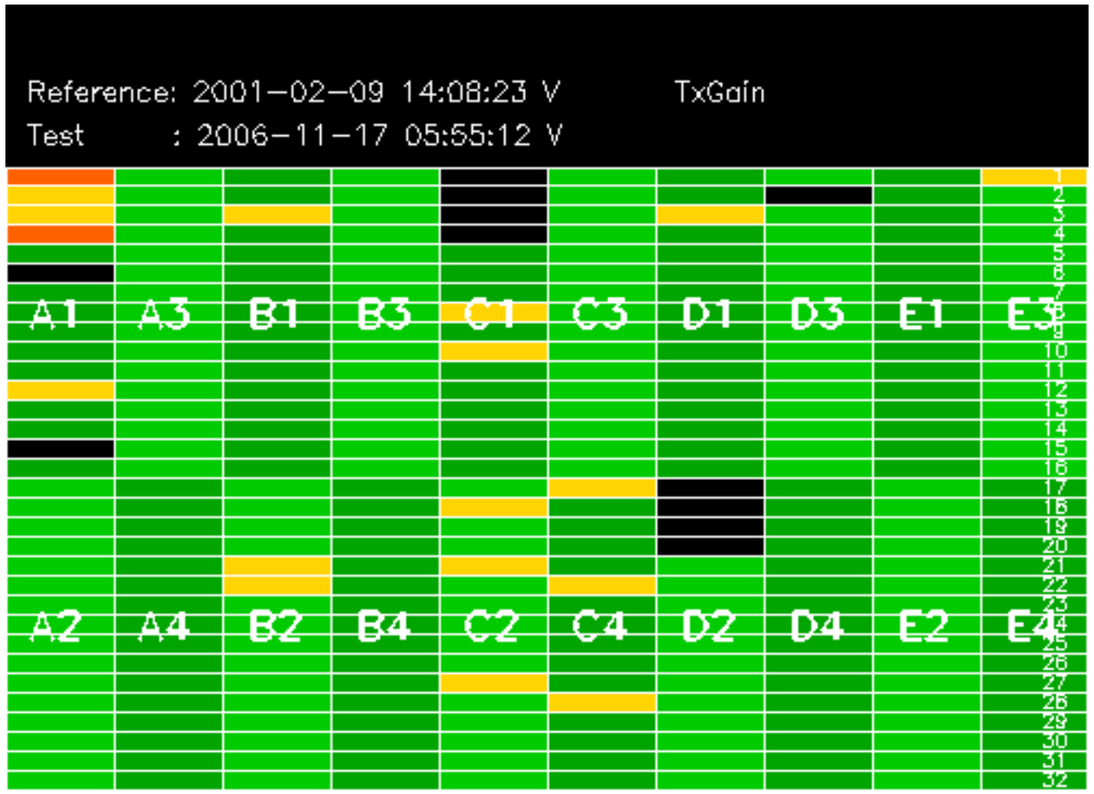
Reference: 2001-02-09 14:08:23 V
Test : 2006-11-17 05:55:12 V
TxGain
A1
A3
B1
B3
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C3
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D4
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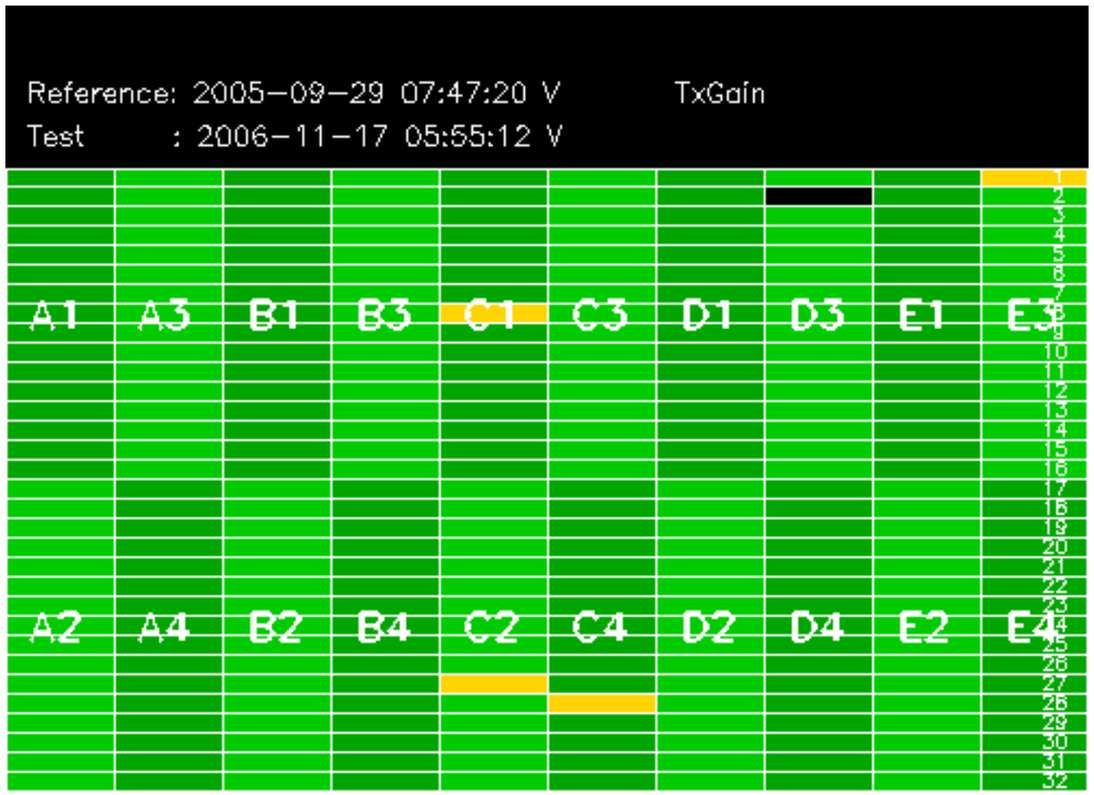
Reference: 2005-09-29 07:47:20 V
Test : 2006-11-17 05:55:12 V
TxGain
A1
A3
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B3
C1
C3
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Summary of analysis for the last 3 days 2006111[567]
The assumptions is taken that the SQADS num_gaps and num_missing_lines 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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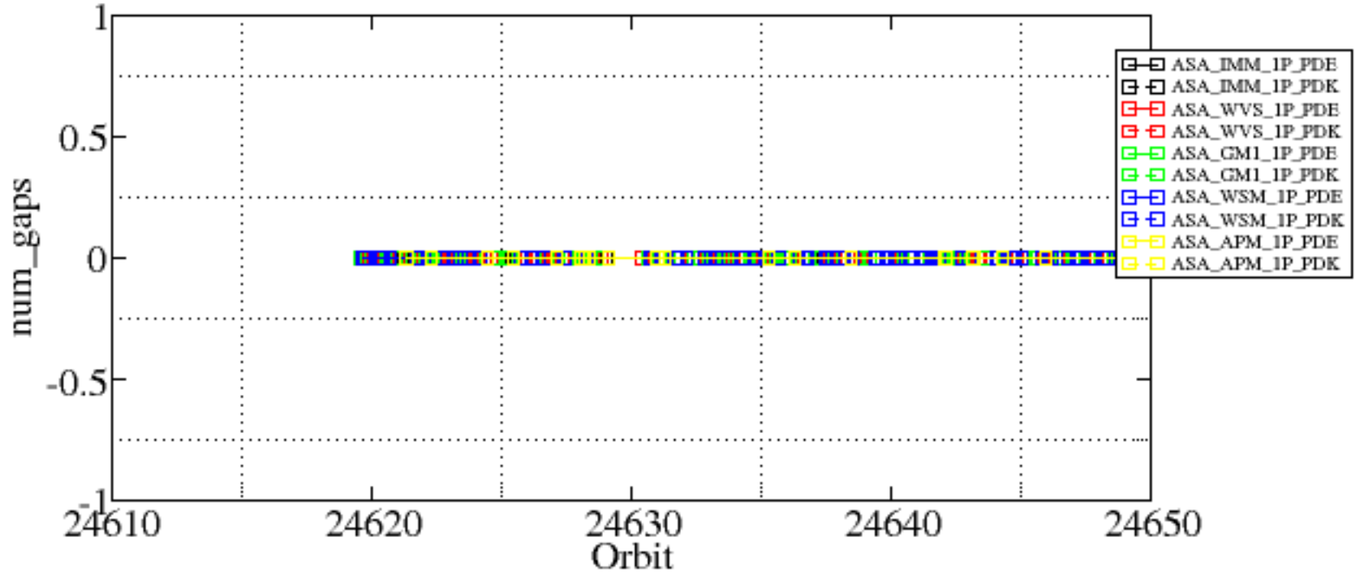
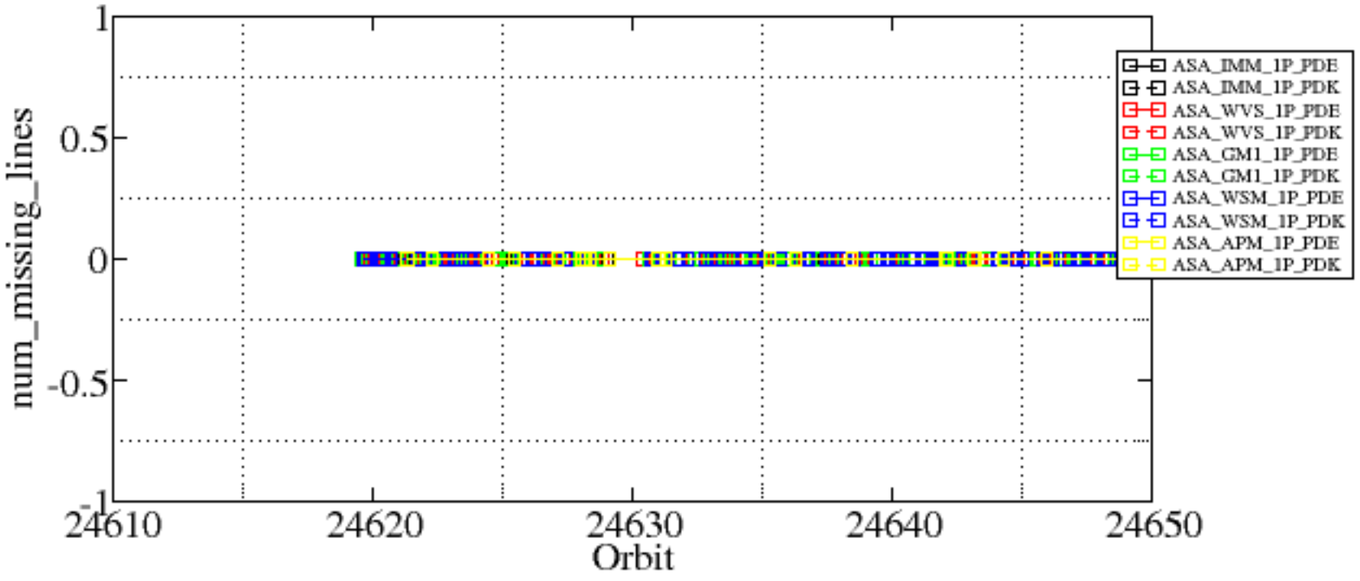
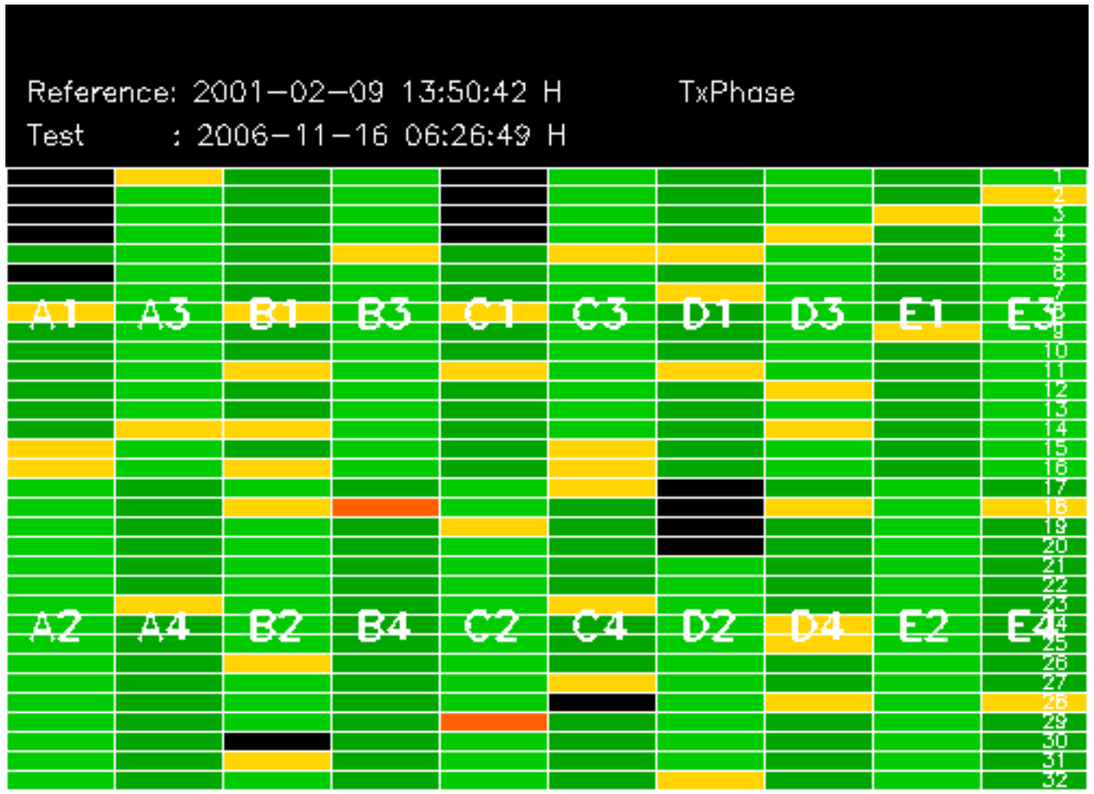

num_gaps
1
0.5
0
-0.5
-1
24610
24620
24630
24640
24650
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
1
0.5
0
-0.5
-1
24610
24620
24630
24640
24650
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
Test : 2006-11-16 06:26:49 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
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B4
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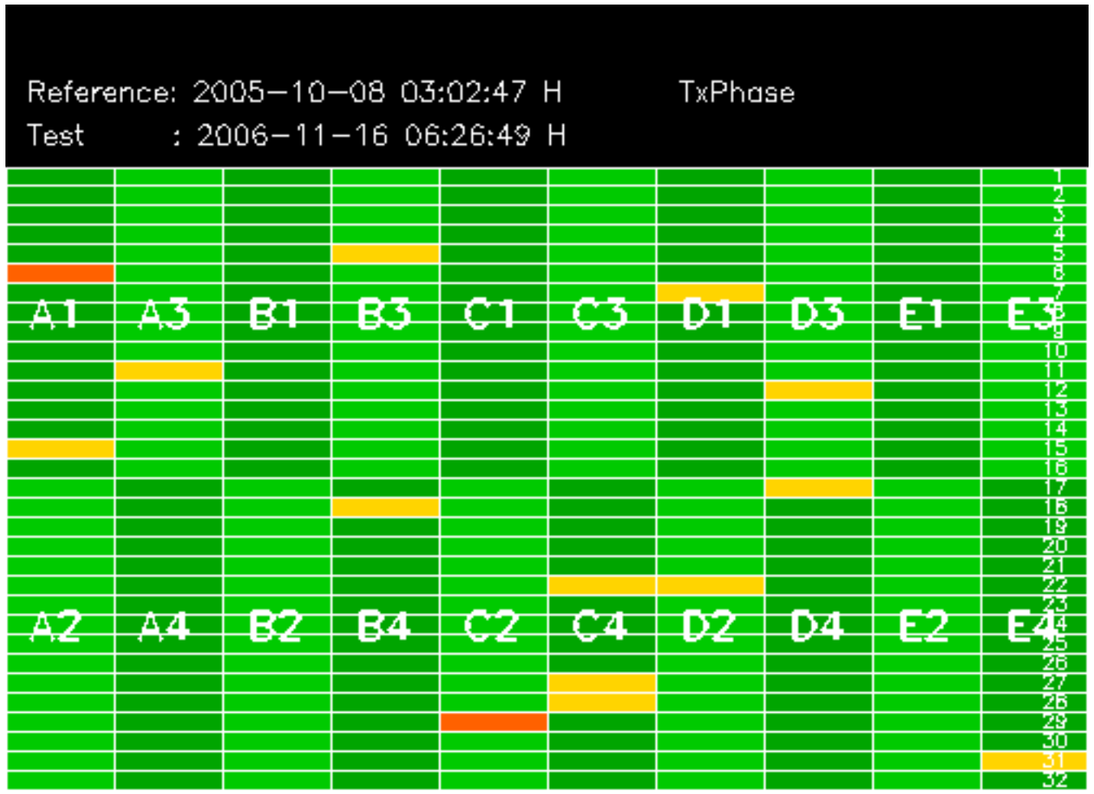
Reference: 2005-10-08 03:02:47 H
Test : 2006-11-16 06:26:49 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
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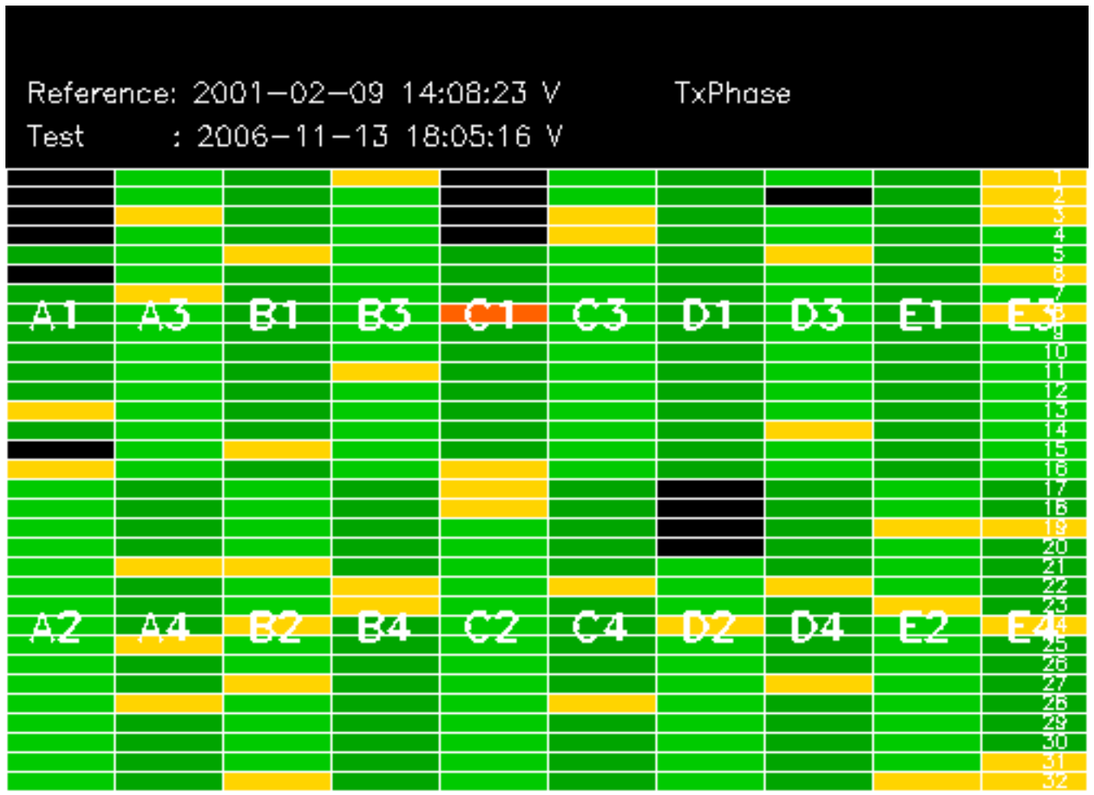
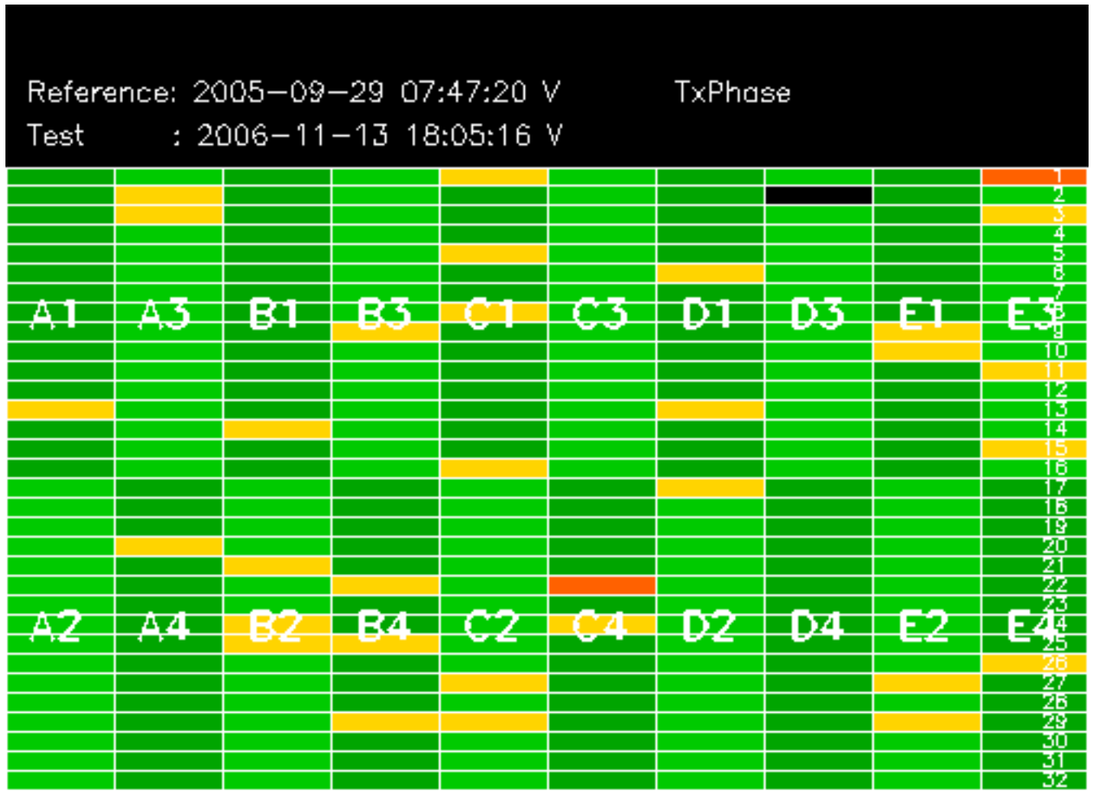

Reference: 2001-02-09 14:08:23 V
Test : 2006-11-13 18:05:16 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-11-13 18:05:16 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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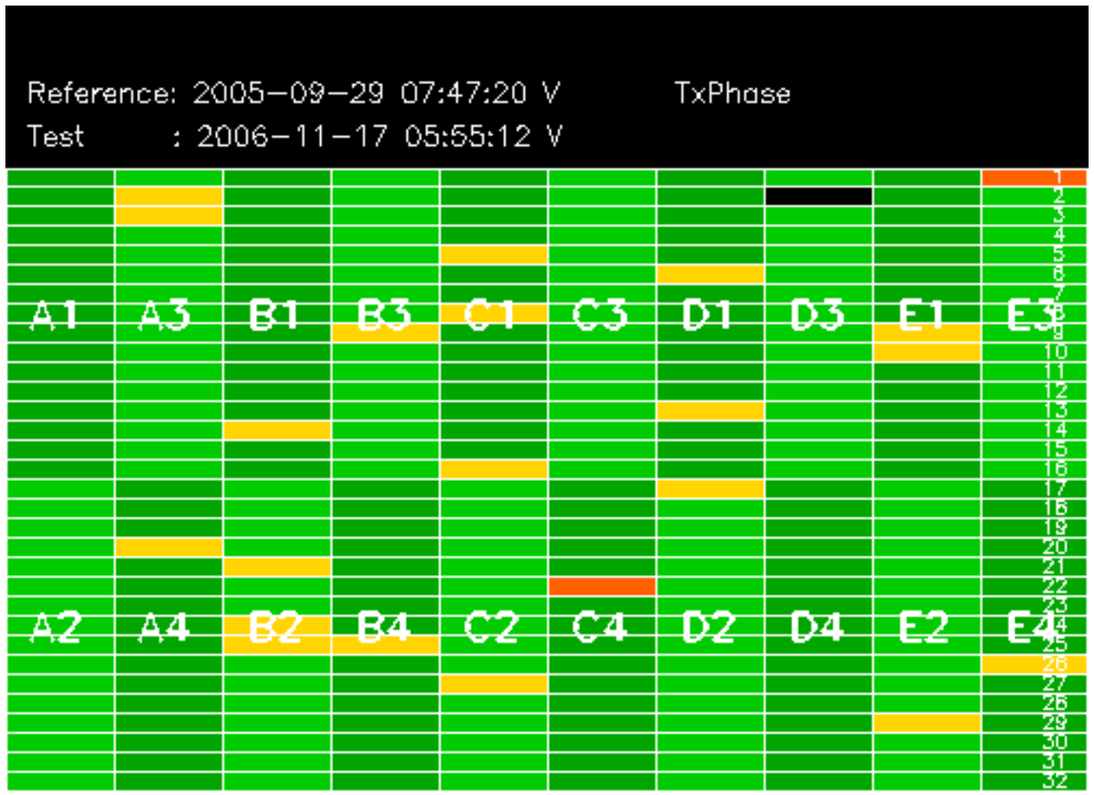
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32


Reference: 2001-02-09 14:08:23 V
Test : 2006-11-17 05:55:12 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 : 2006-11-17 05:55:12 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
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10
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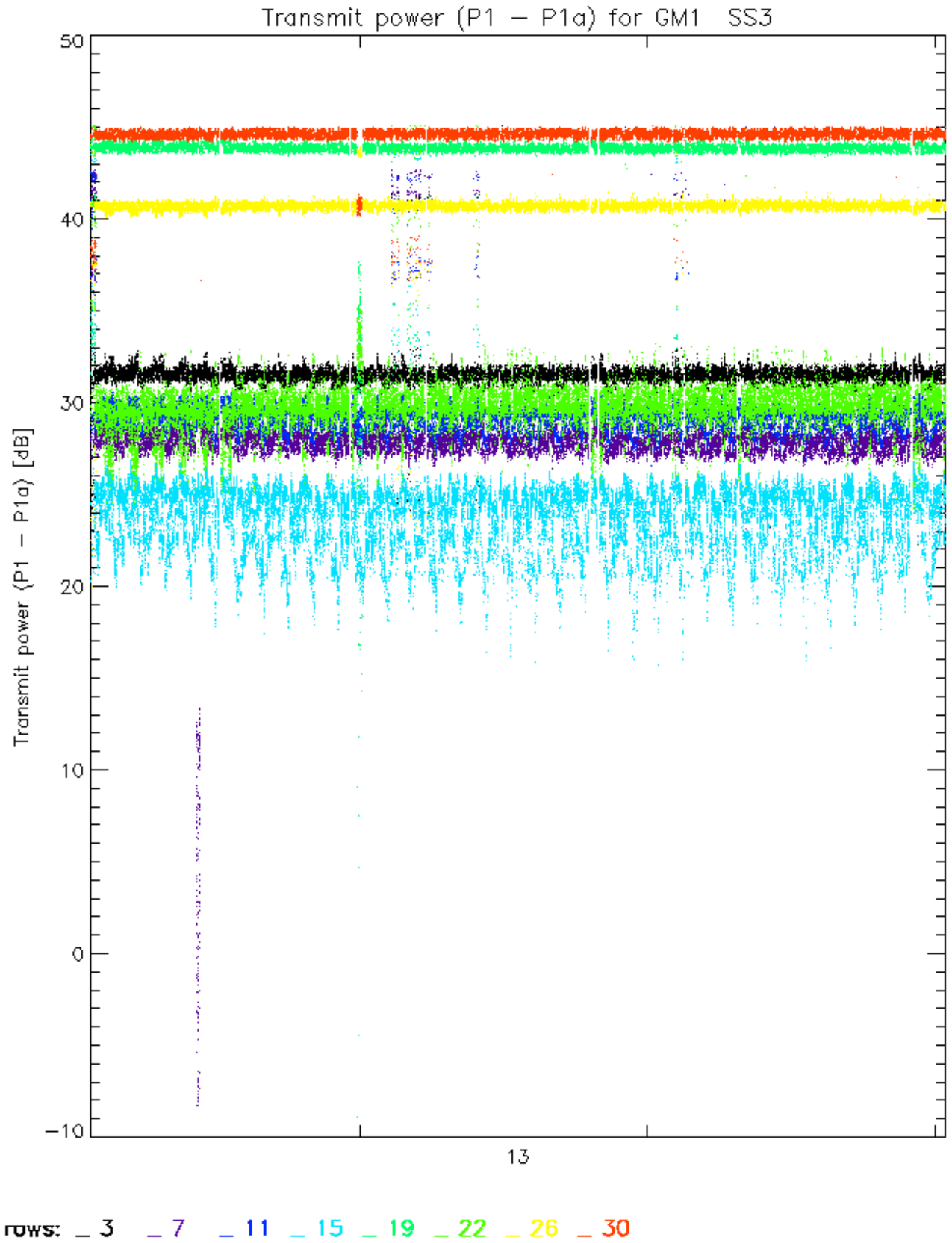
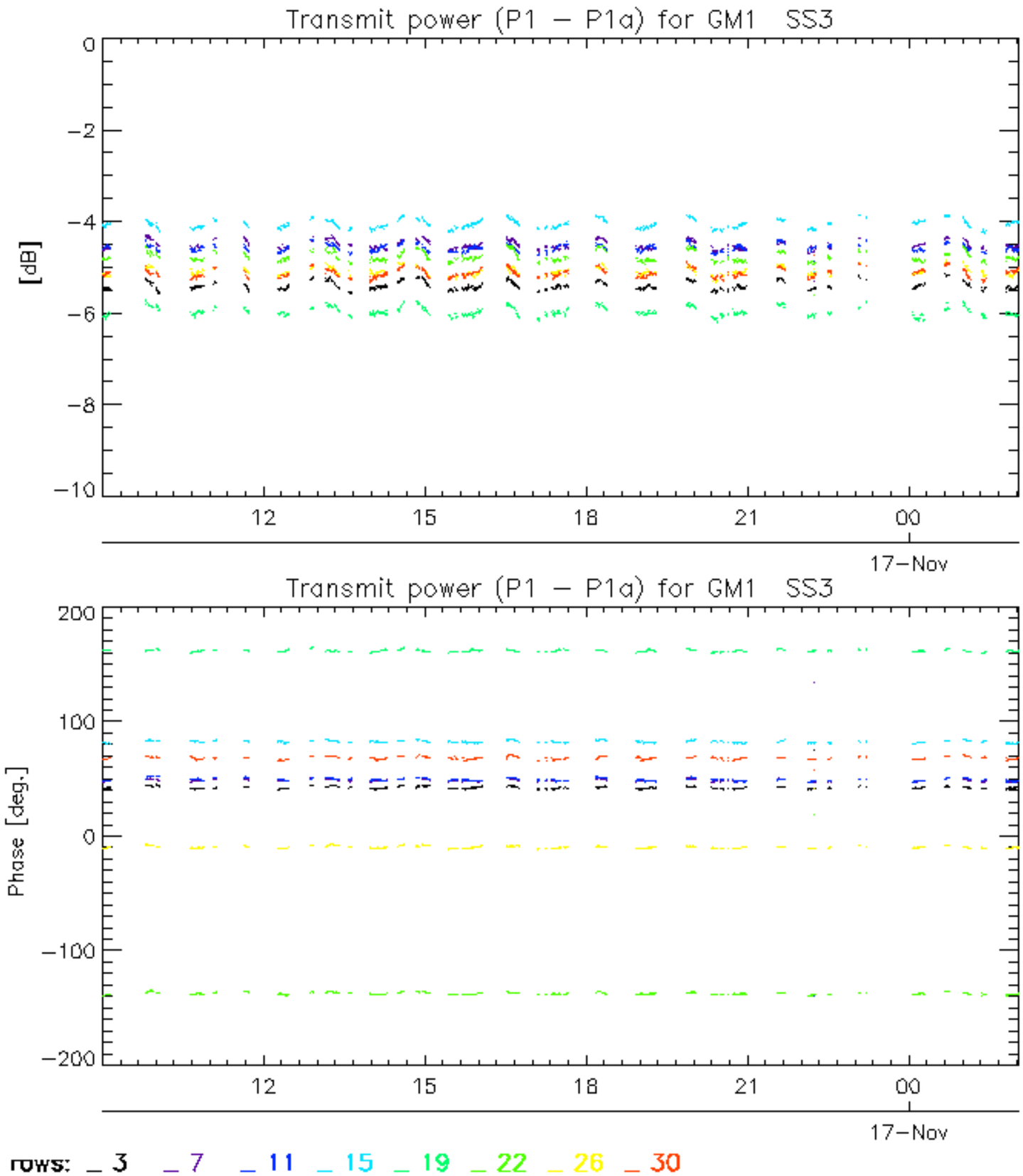
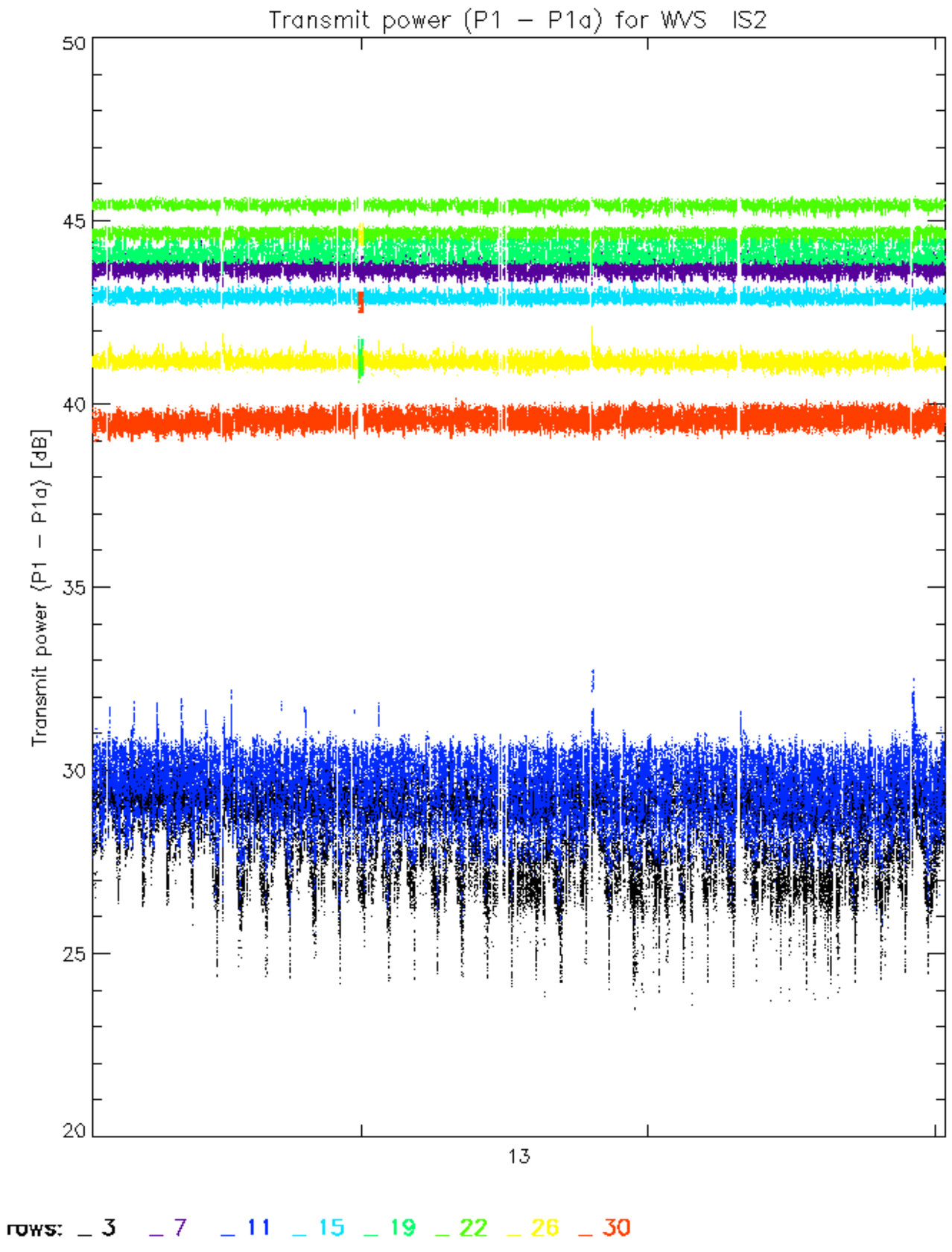
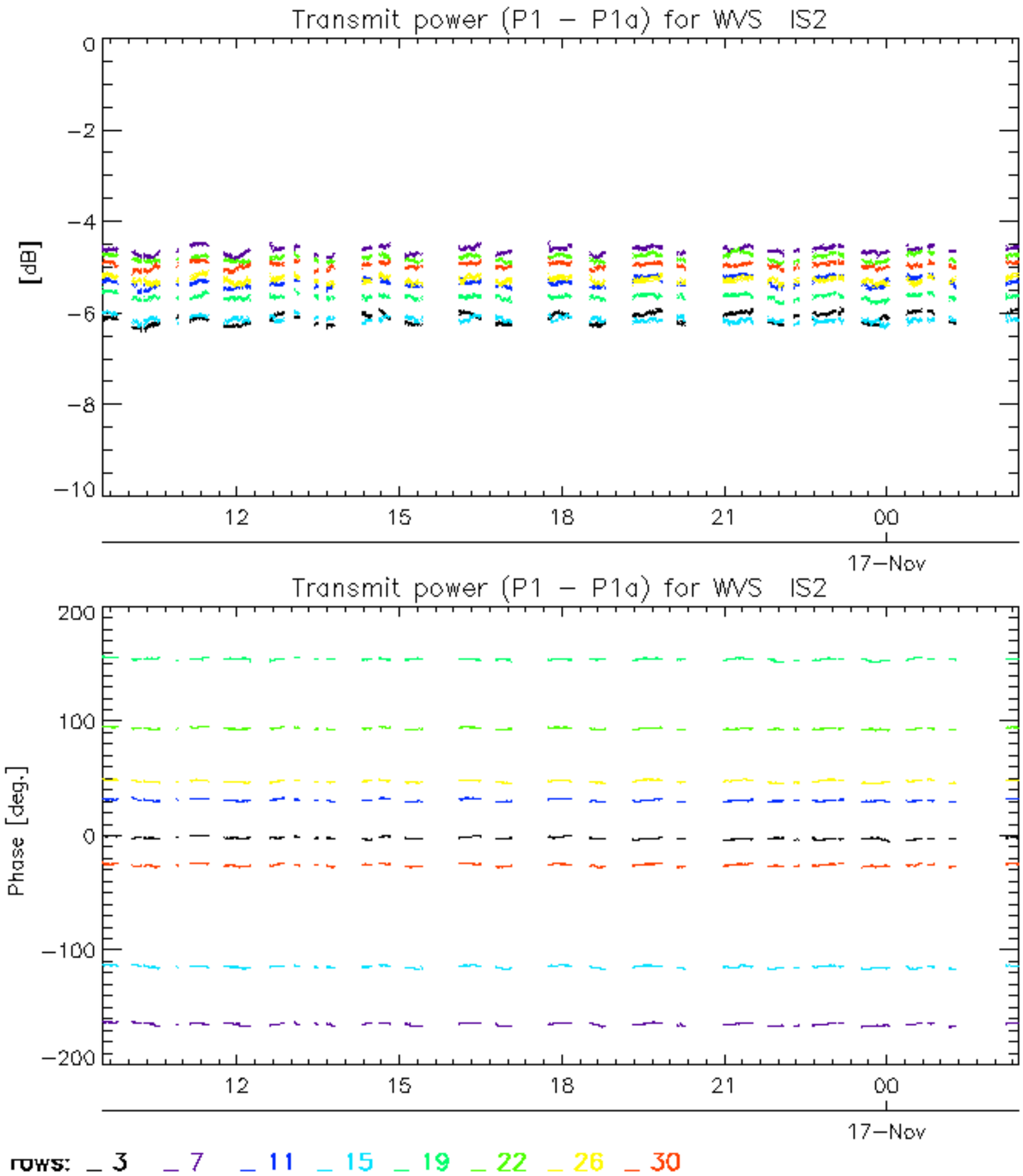
32


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
13
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
12
15
18
21
00
17−Nov
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
12
15
18
21
00
17−Nov
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
13
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
12
15
18
21
00
17−Nov
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
12
15
18
21
00
17−Nov
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.