PRELIMINARY REPORT OF 061101

last update on Wed Nov 1 16:33:37 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 2006-10-31 00:00:00 to 2006-11-01 16:33:37

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

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	36	72	24	11	0
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	36	72	24	11	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	36	72	24	11	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	36	72	24	11	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	30	48	28	5	14
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	30	48	28	5	14
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	30	48	28	5	14
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	30	48	28	5	14

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	20061030 084156
H	20061031 081019

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	-3.952107	0.009690	-0.023381
7	P1	-3.100872	0.016496	-0.111943
11	P1	-4.106239	0.024696	-0.066915
15	P1	-6.233291	0.015909	-0.127659
19	P1	-3.589745	0.070782	-0.119900
22	P1	-4.643768	0.139977	-0.163863
26	P1	-4.003690	0.135148	-0.004749
30	P1	-5.887265	0.257662	-0.095040
3	P1	-16.588770	0.217971	0.269359
7	P1	-17.151560	0.170097	-0.216693
11	P1	-17.059278	0.423900	-0.130086
15	P1	-12.914913	0.114997	-0.393114
19	P1	-14.783410	0.390134	-0.399209
22	P1	-15.661918	0.487722	-0.528285
26	P1	-15.082138	0.254326	-0.056605
30	P1	-17.073240	0.689428	-0.696549

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.834038	0.088759	-0.056720
7	P2	-21.753040	0.096342	0.065359
11	P2	-15.703339	0.108807	0.108796
15	P2	-7.082256	0.108748	-0.106689
19	P2	-9.143233	0.101945	-0.121872
22	P2	-18.165098	0.096600	-0.159263
26	P2	-16.456871	0.107195	-0.184628
30	P2	-19.467035	0.092375	-0.038177

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.209541	0.007299	-0.064205
7	P3	-8.209541	0.007299	-0.064205
11	P3	-8.209541	0.007299	-0.064205
15	P3	-8.209541	0.007299	-0.064205
19	P3	-8.209541	0.007299	-0.064205
22	P3	-8.209541	0.007299	-0.064205
26	P3	-8.209426	0.007312	-0.064650
30	P3	-8.209426	0.007312	-0.064650

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	-3.929748	0.223501	0.121872
7	P1	-2.643563	1.420732	0.580577
11	P1	-2.911123	0.172368	0.235552
15	P1	-3.703993	0.154414	0.200031
19	P1	-3.525926	0.180883	-0.209501
22	P1	-5.073468	0.132295	-0.051418
26	P1	-6.004161	0.344463	-0.294306
30	P1	-5.301294	0.223616	-0.287549
3	P1	-11.766075	0.540752	0.321197
7	P1	-10.181590	1.797795	0.728843
11	P1	-10.441124	0.479495	0.616321
15	P1	-10.913836	0.629162	0.827632
19	P1	-15.776890	3.272697	-0.827350
22	P1	-21.104496	1.697507	-1.126351

26	P1	-15.918737	0.482181	-0.792322
30	P1	-17.999857	0.566281	0.538446

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.368553	0.325816	-0.463135
7	P2	-22.001030	1.871670	-1.100582
11	P2	-10.861021	0.283591	-0.392620
15	P2	-4.911863	0.058787	-0.249200
19	P2	-6.891958	0.086997	-0.235904
22	P2	-8.270891	0.569187	0.069502
26	P2	-24.129332	1.435137	-0.856573
30	P2	-21.858887	0.724182	-0.449196

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.066010	0.003137	-0.071996
7	P3	-8.065989	0.003114	-0.072660
11	P3	-8.065863	0.003113	-0.072559
15	P3	-8.065928	0.003113	-0.071848
19	P3	-8.065942	0.003108	-0.072078
22	P3	-8.065793	0.003121	-0.072805
26	P3	-8.065644	0.003096	-0.074684
30	P3	-8.065652	0.003094	-0.073669

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	0.000559544
	stdev	1.67220e-07
MEAN Q	mean	0.000522469
	stdev	2.15555e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.137878
	stdev	0.00111011
STDEV Q	mean	0.138249
	stdev	0.00112759

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006103[011]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20061030_010452_000000932052_00289_24391_0001.N1	1	0
ASA_IMM_1PNPDE20061030_064719_000000342052_00292_24394_7664.N1	1	0
ASA_GM1_1PNPDK20061030_140740_000002832052_00296_24398_7654.N1	0	7
ASA_WSM_1PNPDE20061030_160313_000000852052_00298_24400_0001.N1	0	24
ASA_WSM_1PNPDE20061031_010559_000000852052_00303_24405_0001.N1	0	15

ASA_WSM_1PNPDE20061031_170842_000003302052_00313_24415_0001.N1	0	20

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

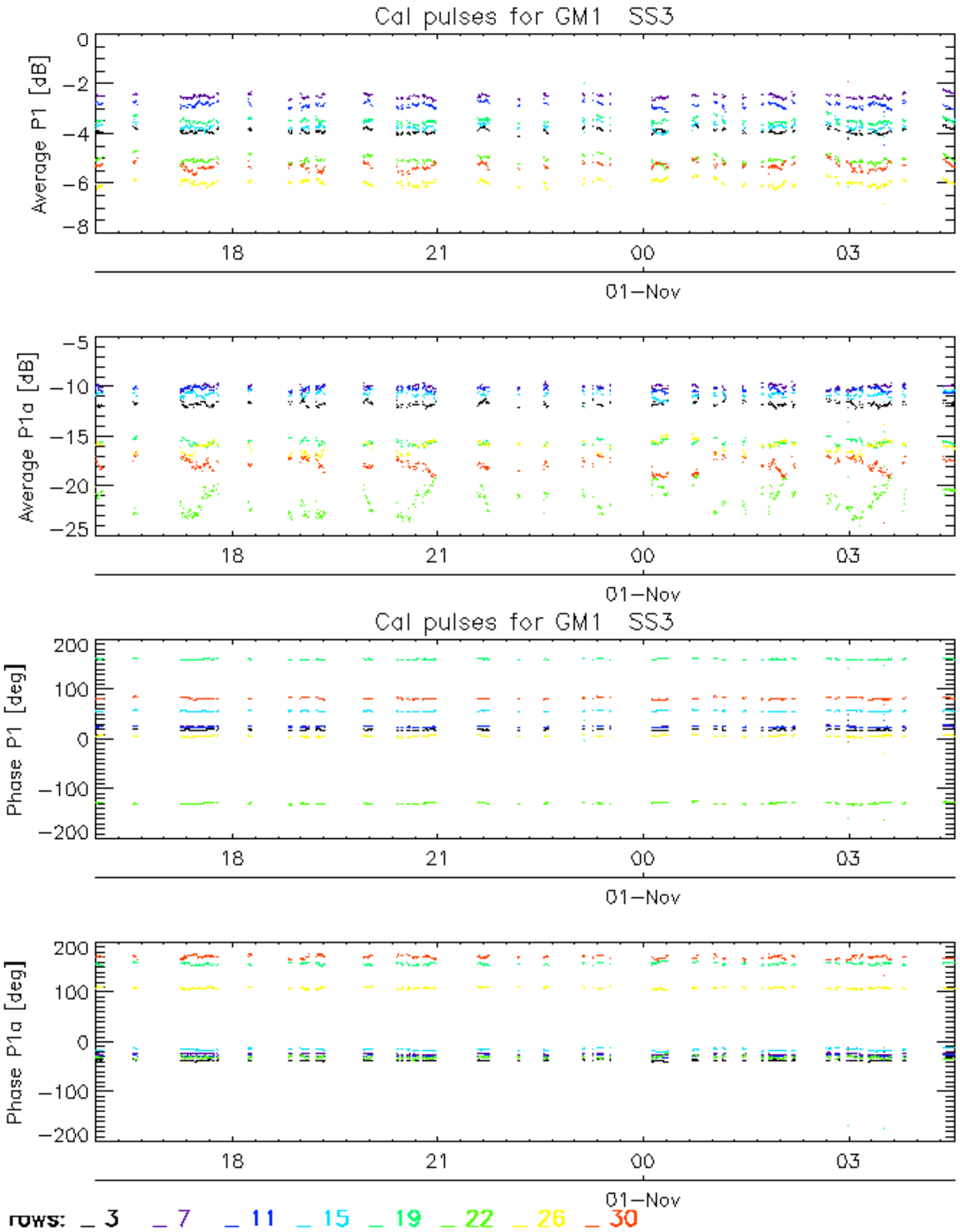
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

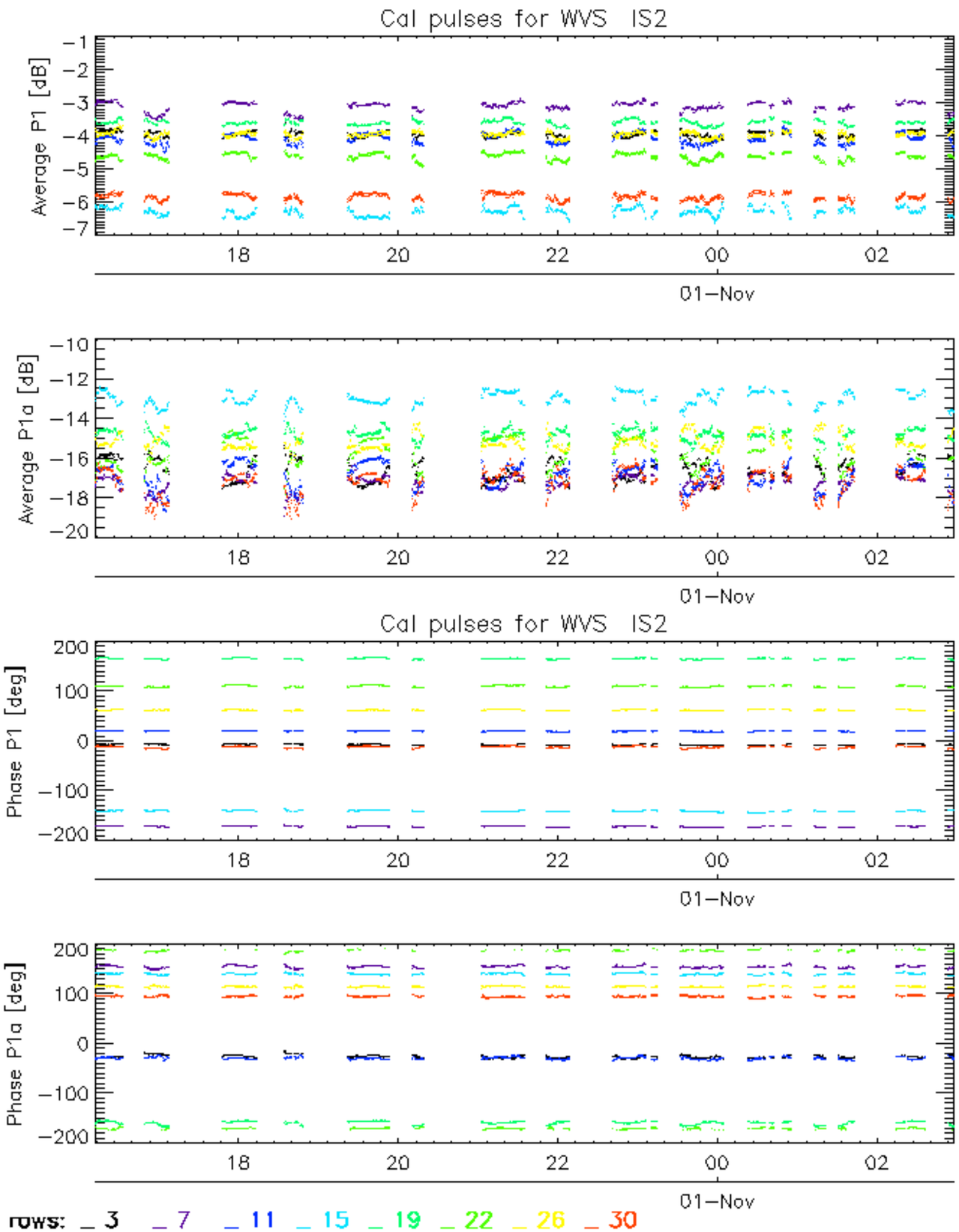
7.5 - Absolute Doppler for GM1

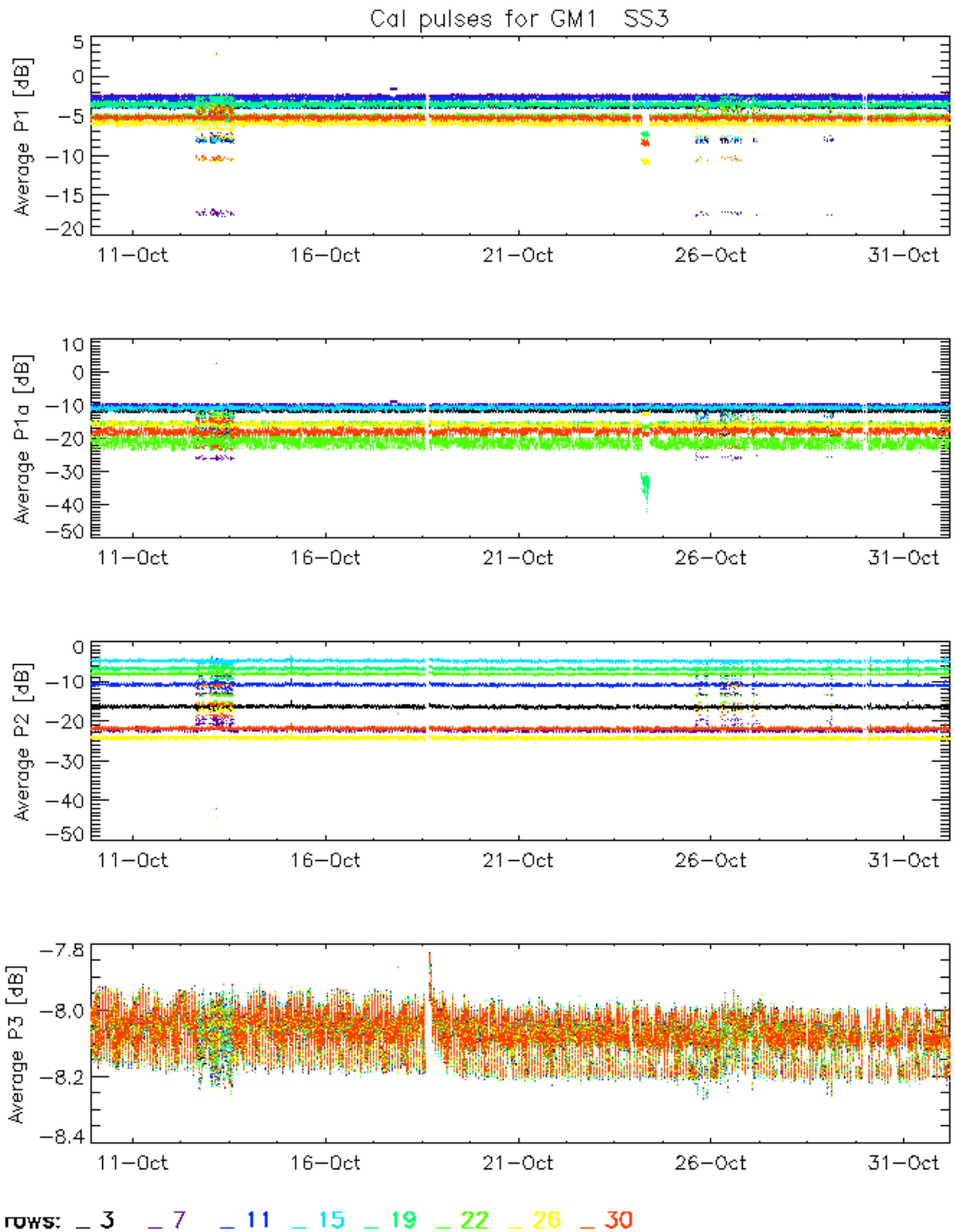
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

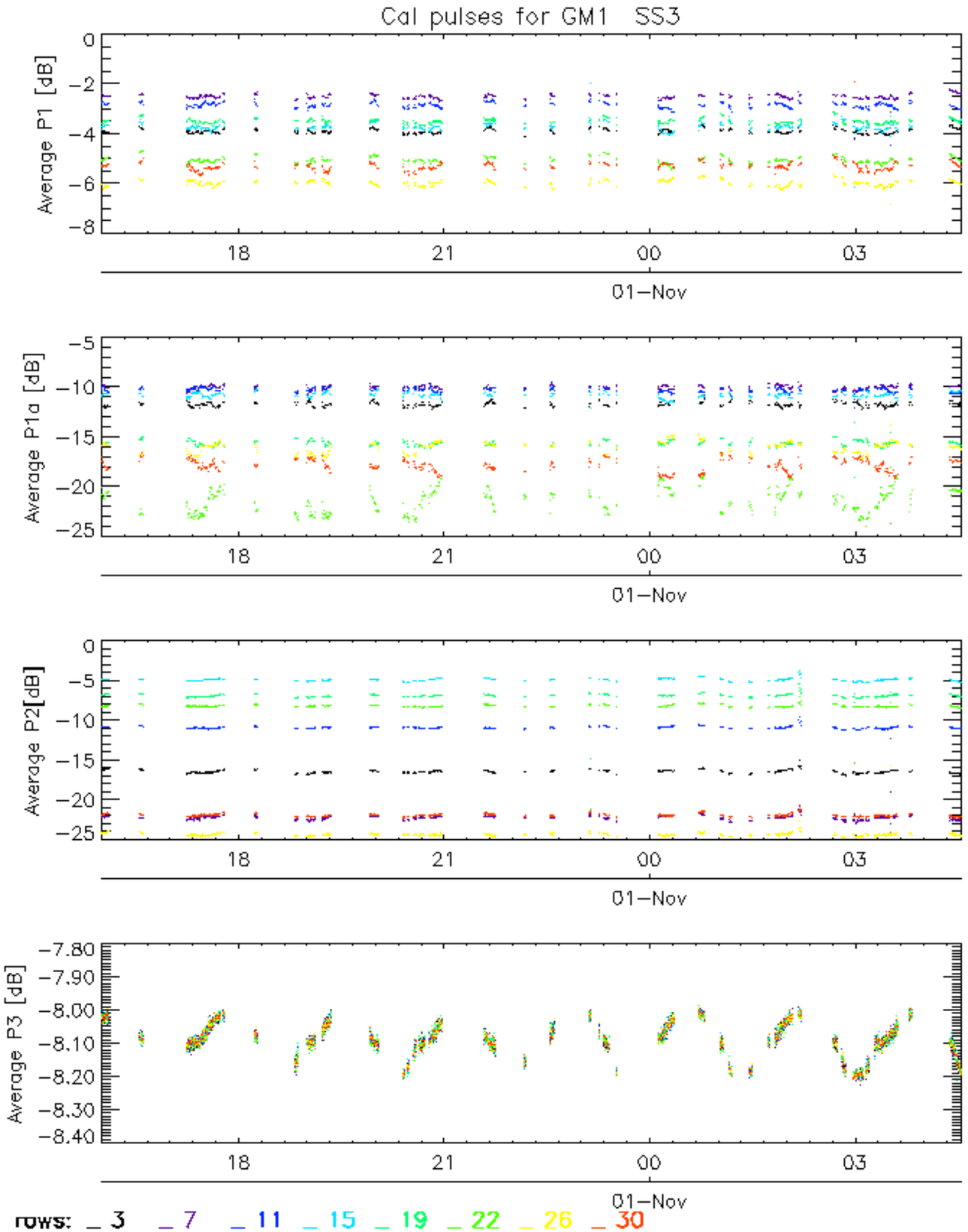
7.6 - Doppler evolution versus ANX for GM1

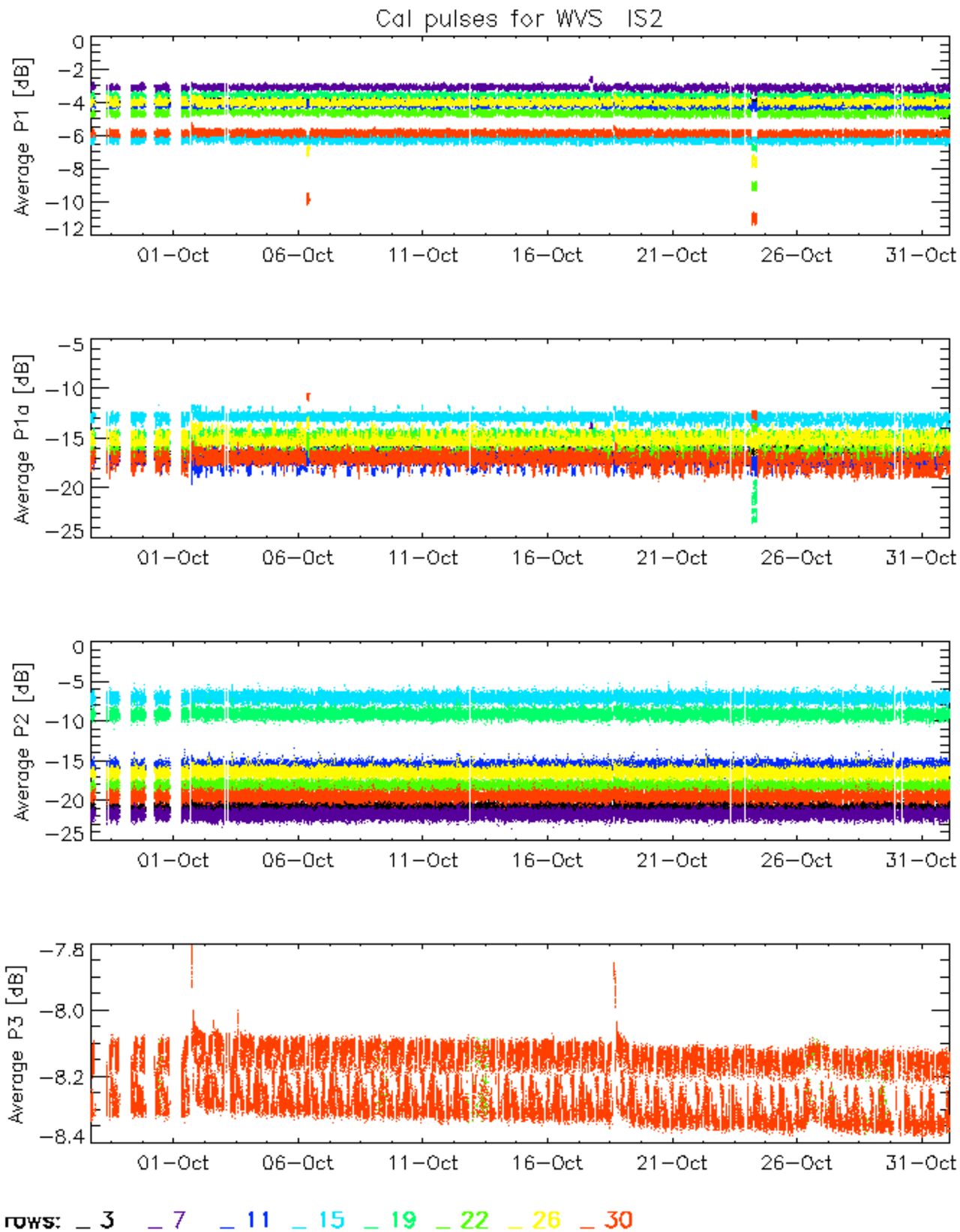
Evolution Doppler error versus ANX
☒

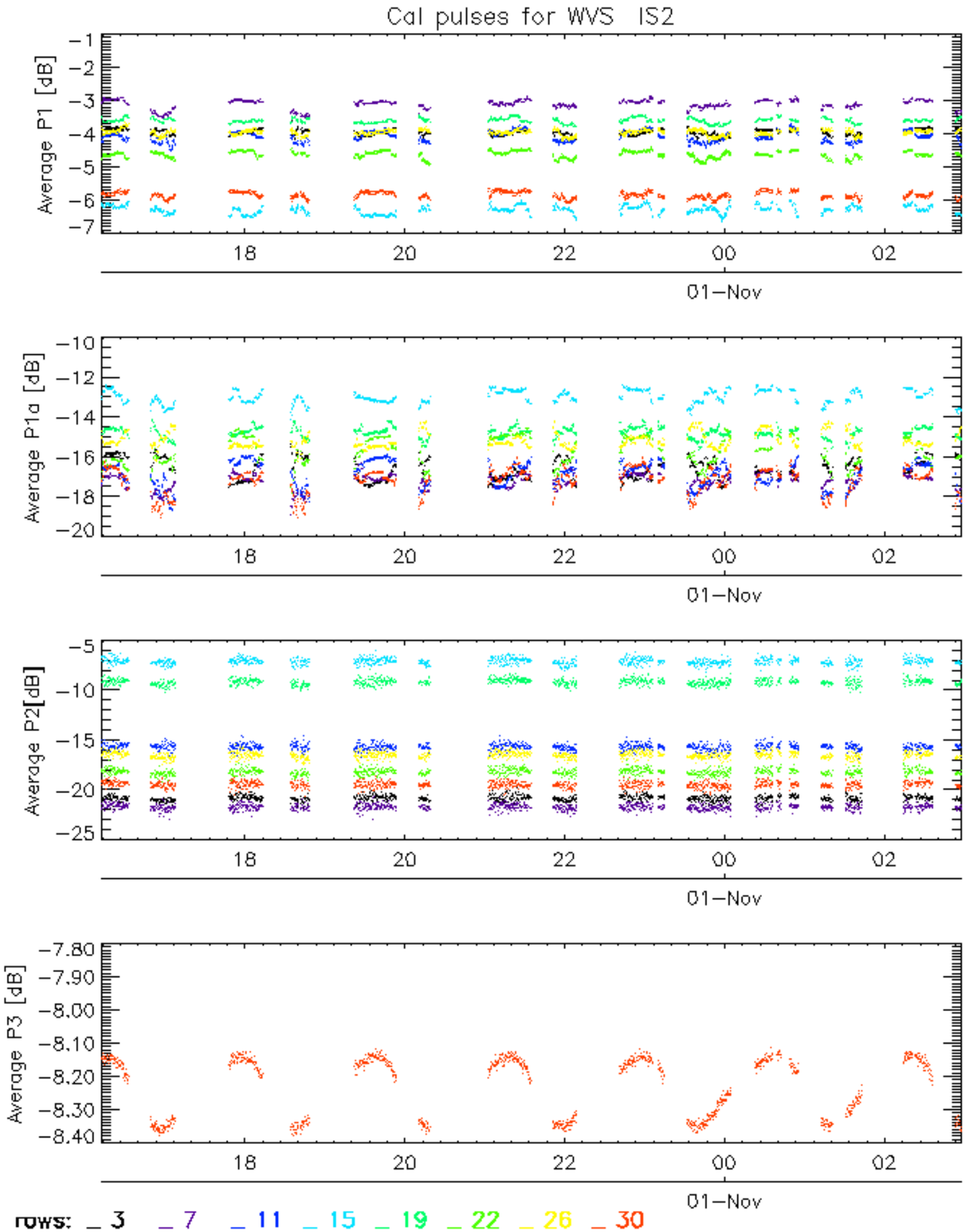

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
18
21
00
03
01−Nov
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
01−Nov
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
01−Nov
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
01−Nov
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
20
22
00
02
01−Nov
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
20
22
00
02
01−Nov
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
20
22
00
02
01−Nov
Phase P1a [deg]
200
100
0
−100
−200
18
20
22
00
02
01−Nov
rows: 3 7 11 15 19 22 26 30


Cal pulses for GM1 SS3
Average P1 [dB]
5
0
−5
−10
−15
−20
11−Oct
16−Oct
21−Oct
26−Oct
31−Oct
Average P1a [dB]
10
0
−10
−20
−30
−40
−50
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: 3 7 11 15 19 22 26 30

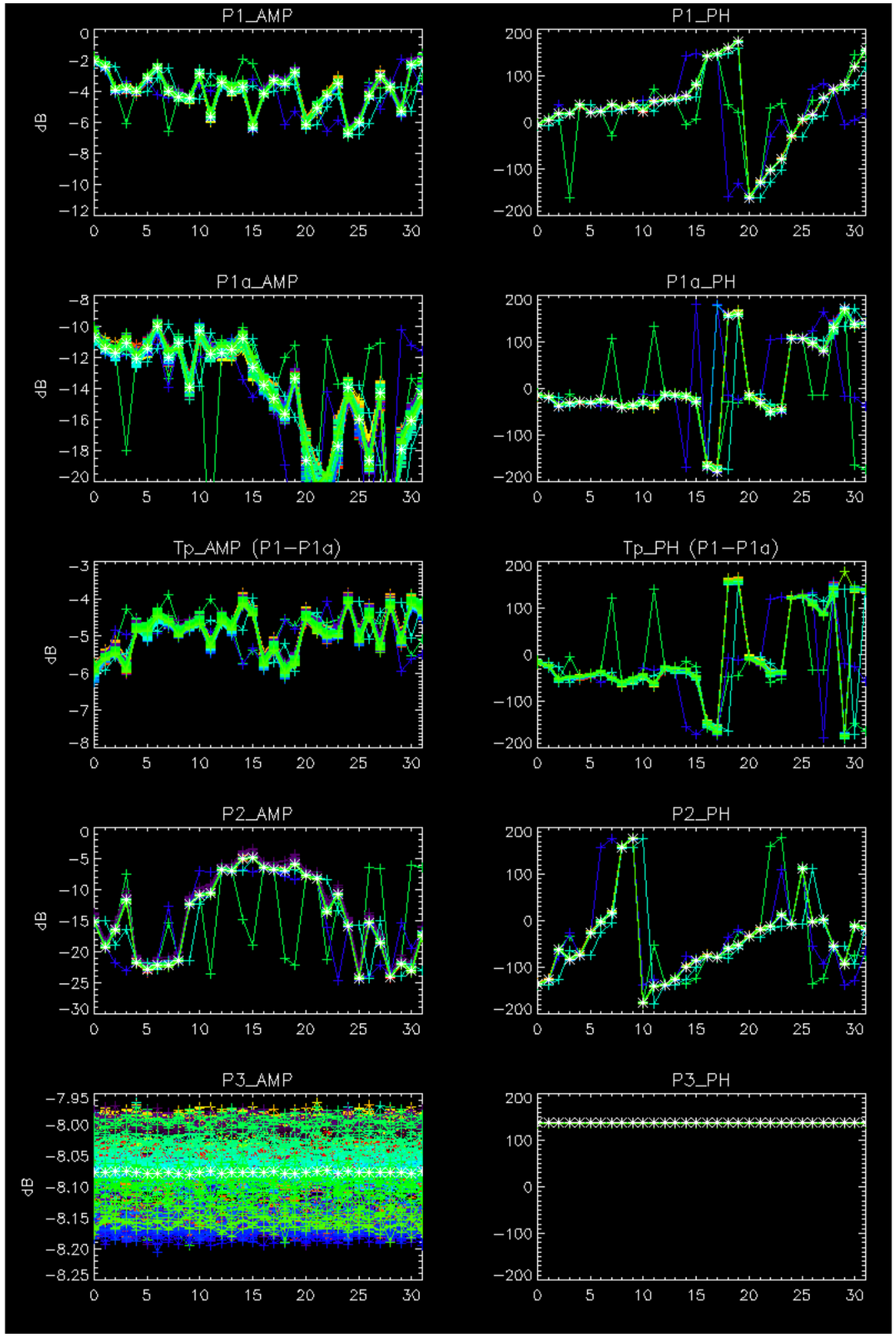

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
18
21
00
03
01−Nov
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
01−Nov
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
01−Nov
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
01−Nov
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

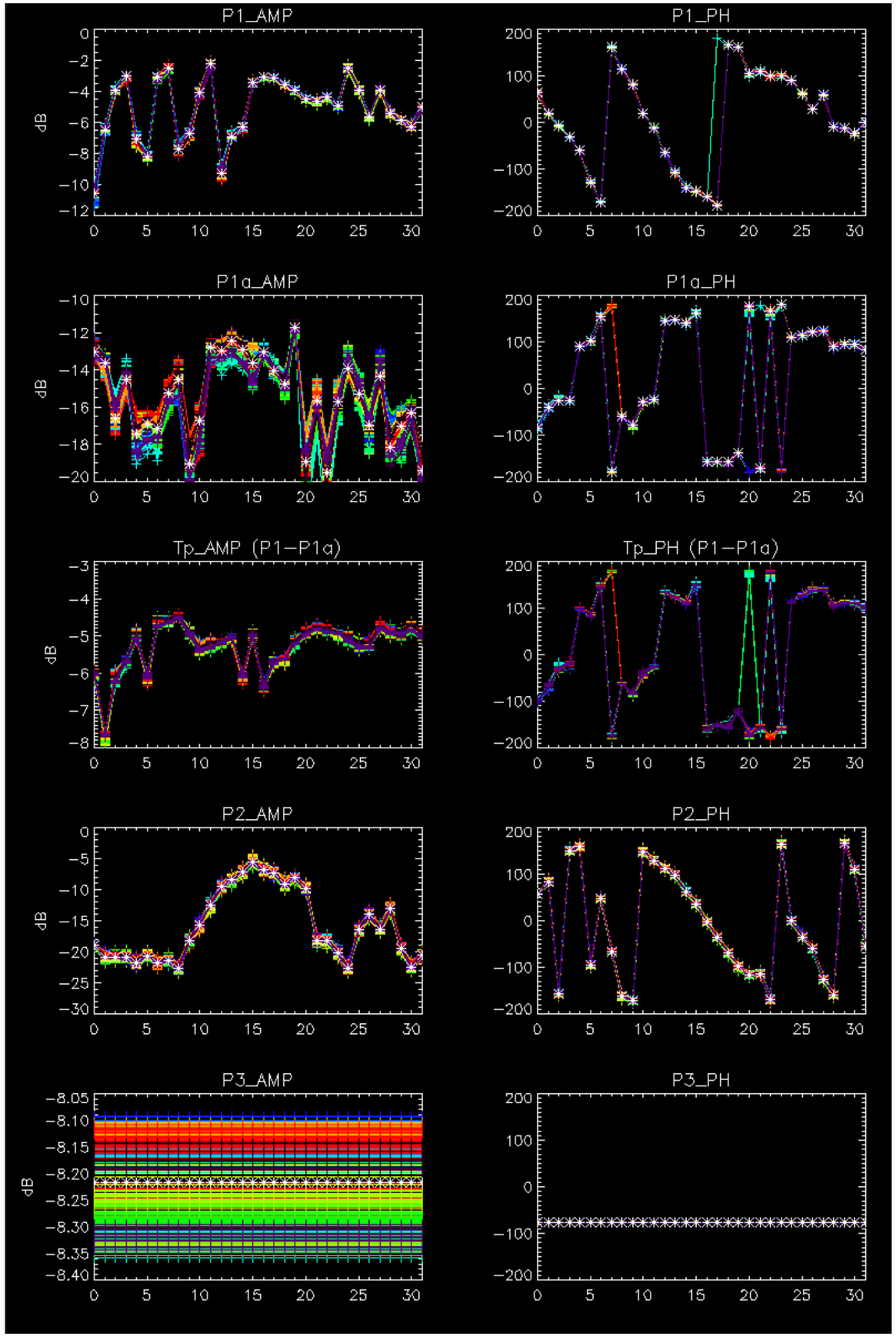

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct
31−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
20
22
00
02
01−Nov
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
20
22
00
02
01−Nov
Average P2[dB]
−5
−10
−15
−20
−25
18
20
22
00
02
01−Nov
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
20
22
00
02
01−Nov
rows: 3 7 11 15 19 22 26 30

No anomalies observed on available browse products

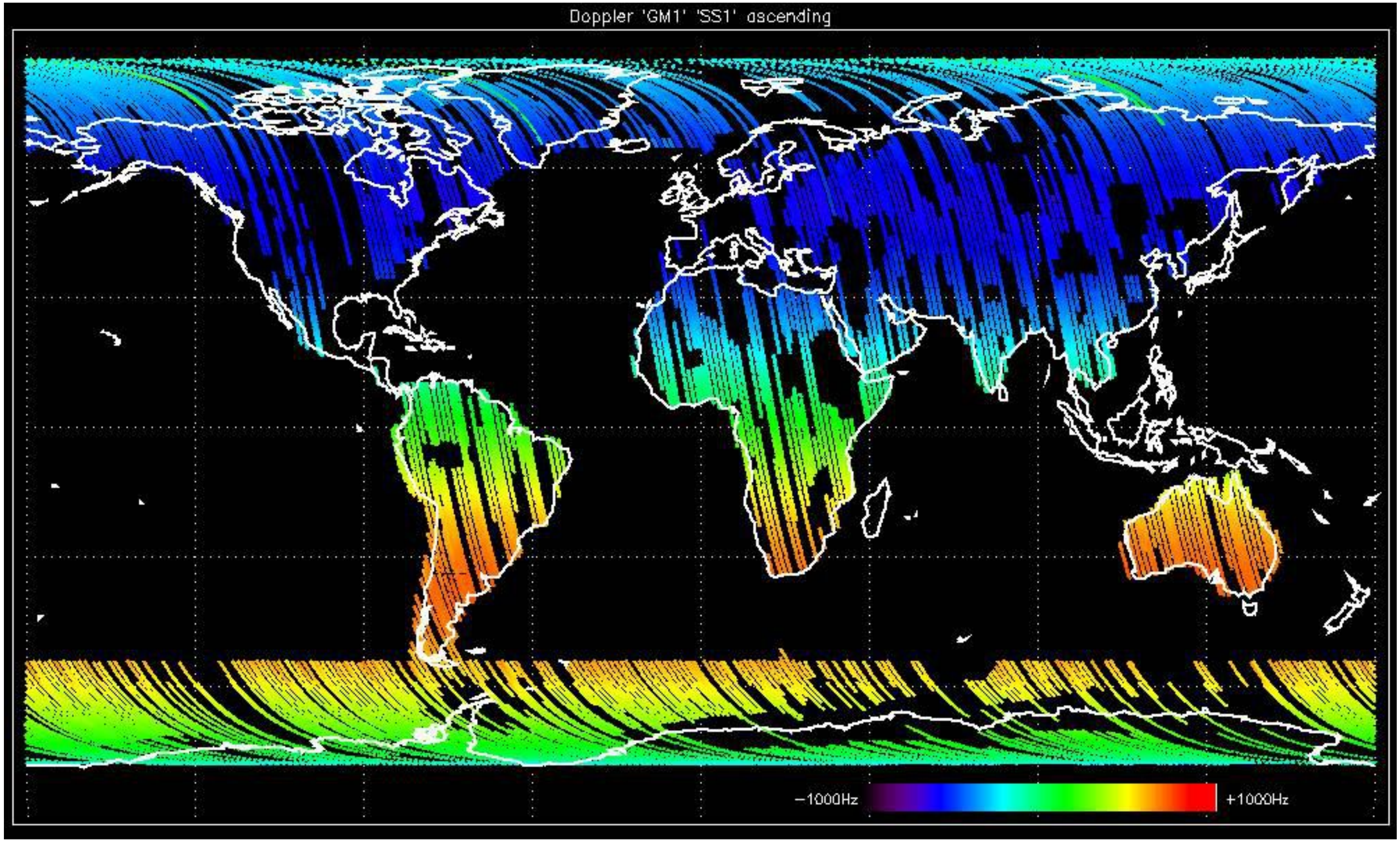
No anomalies observed.

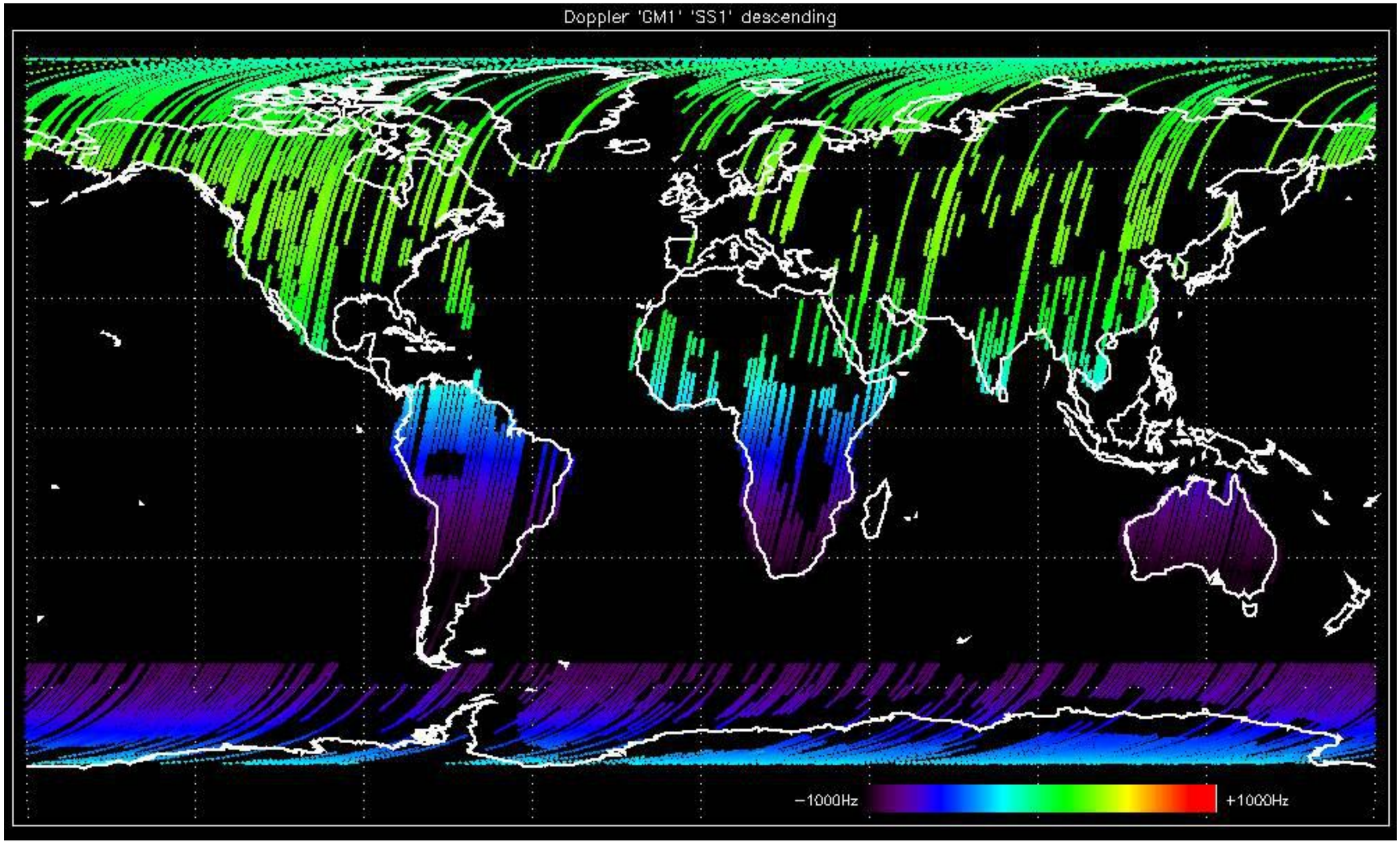

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

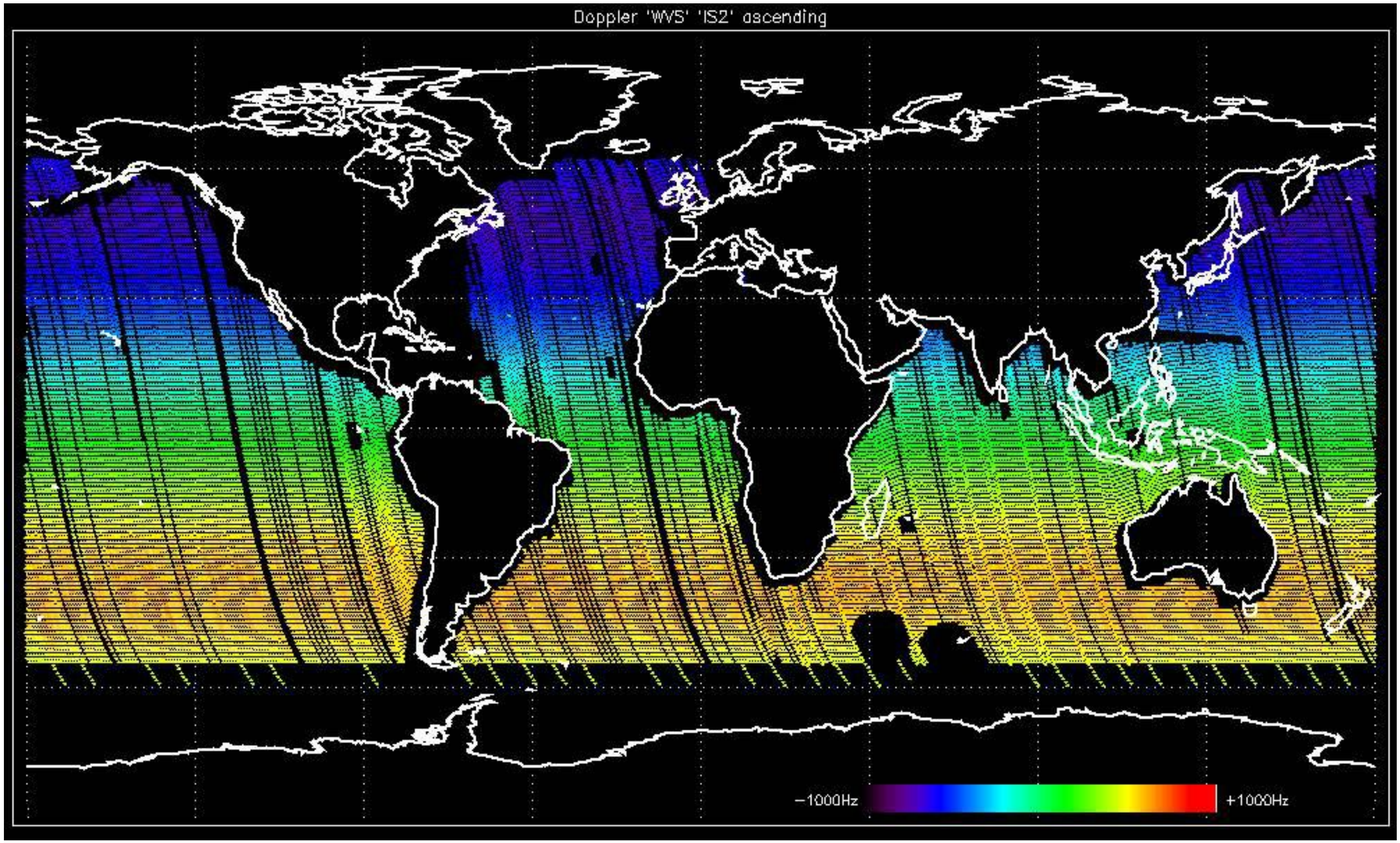

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

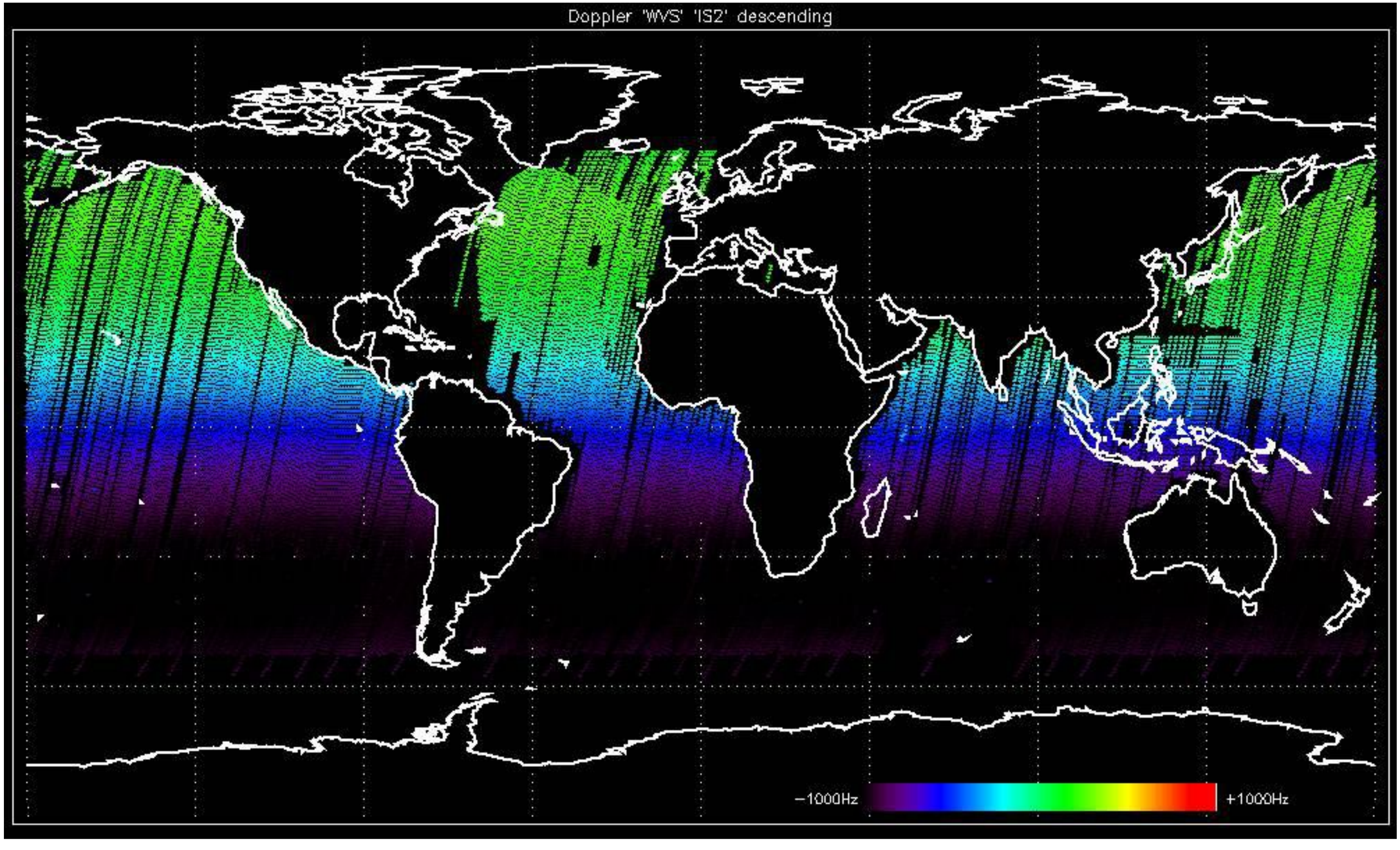
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

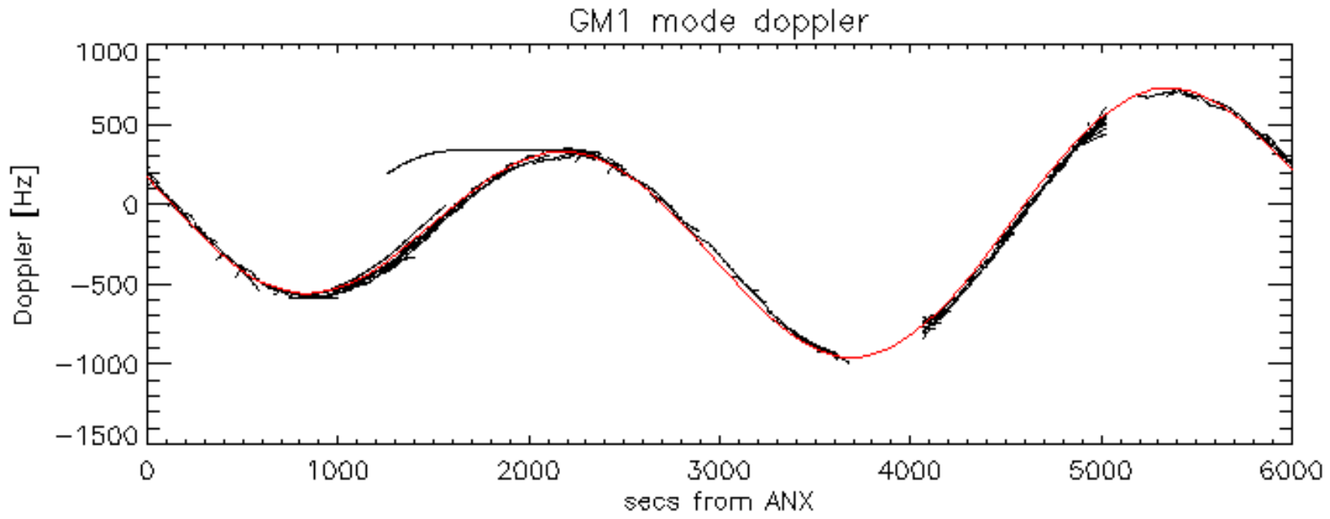
Preliminary report.The data is not yet controled

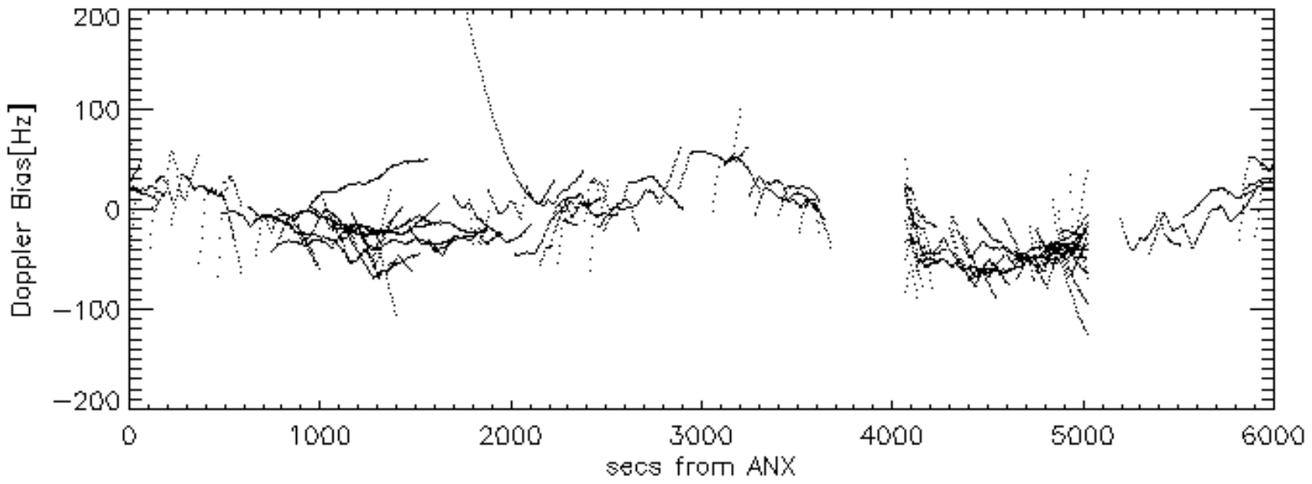

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

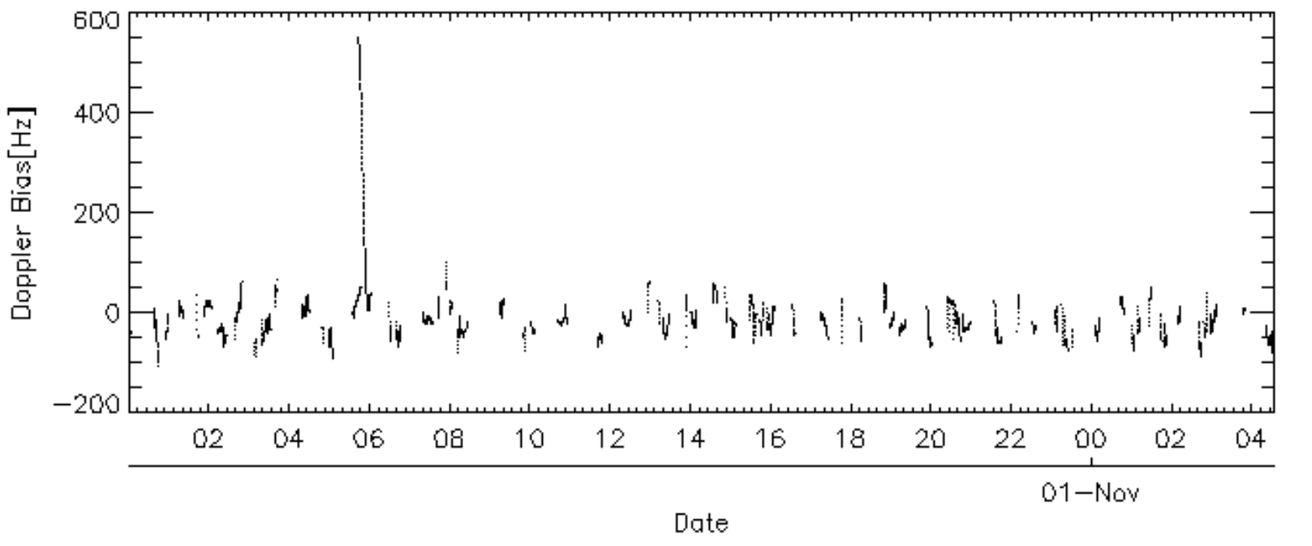

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

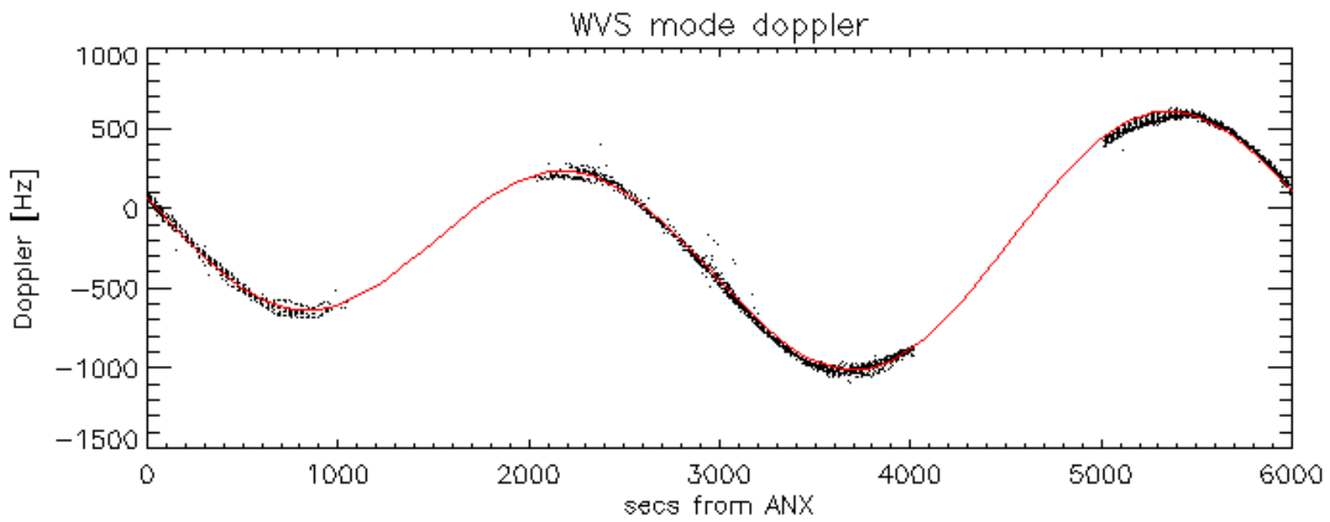

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

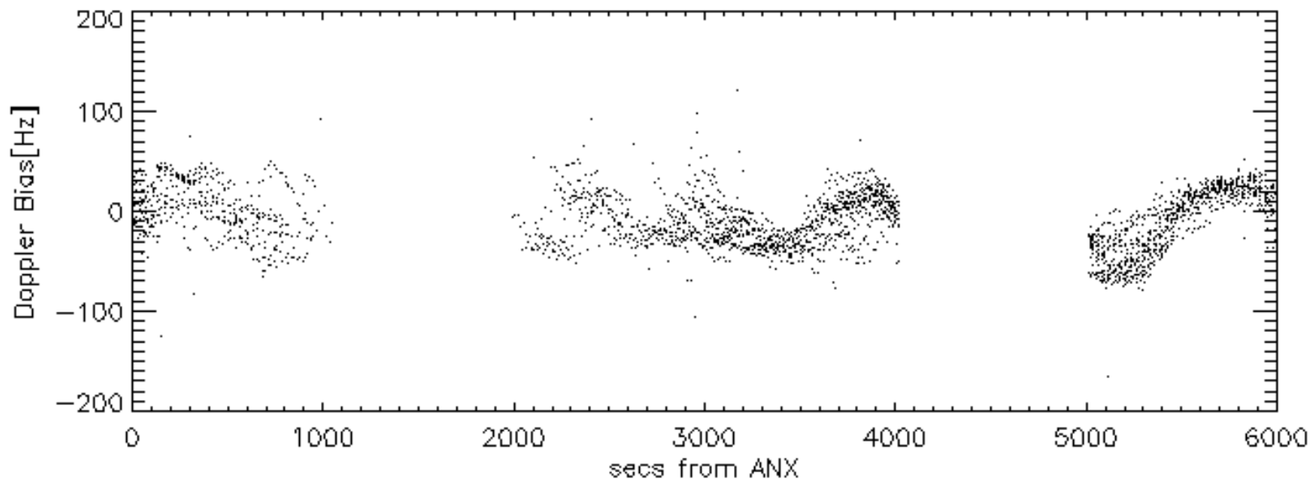

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

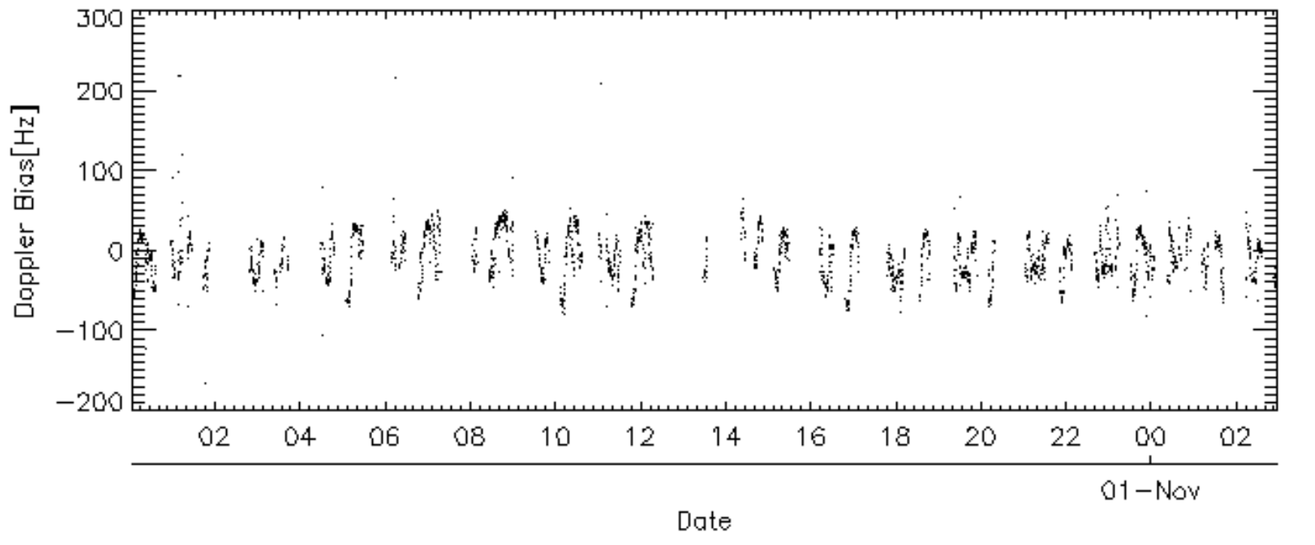

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

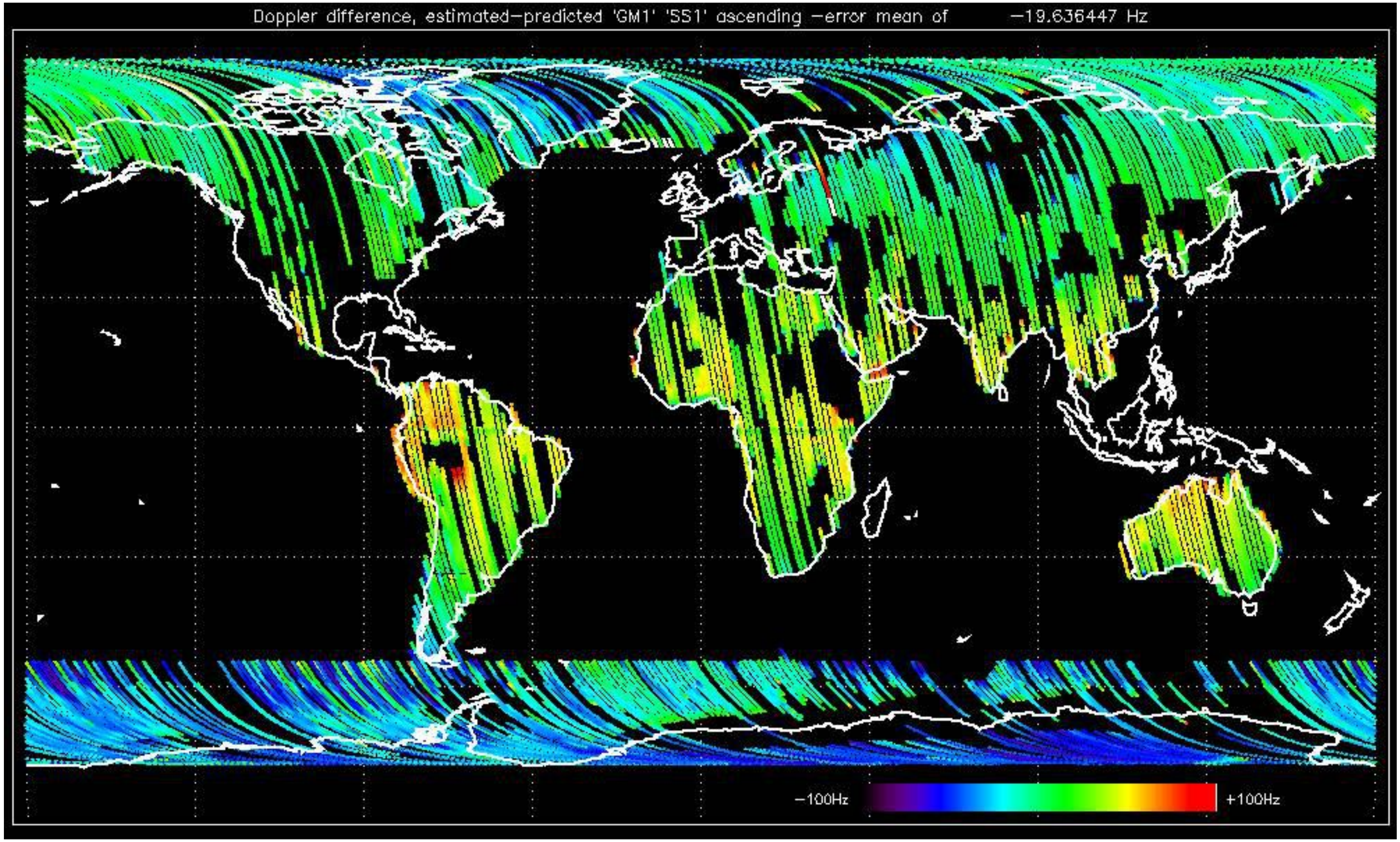

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

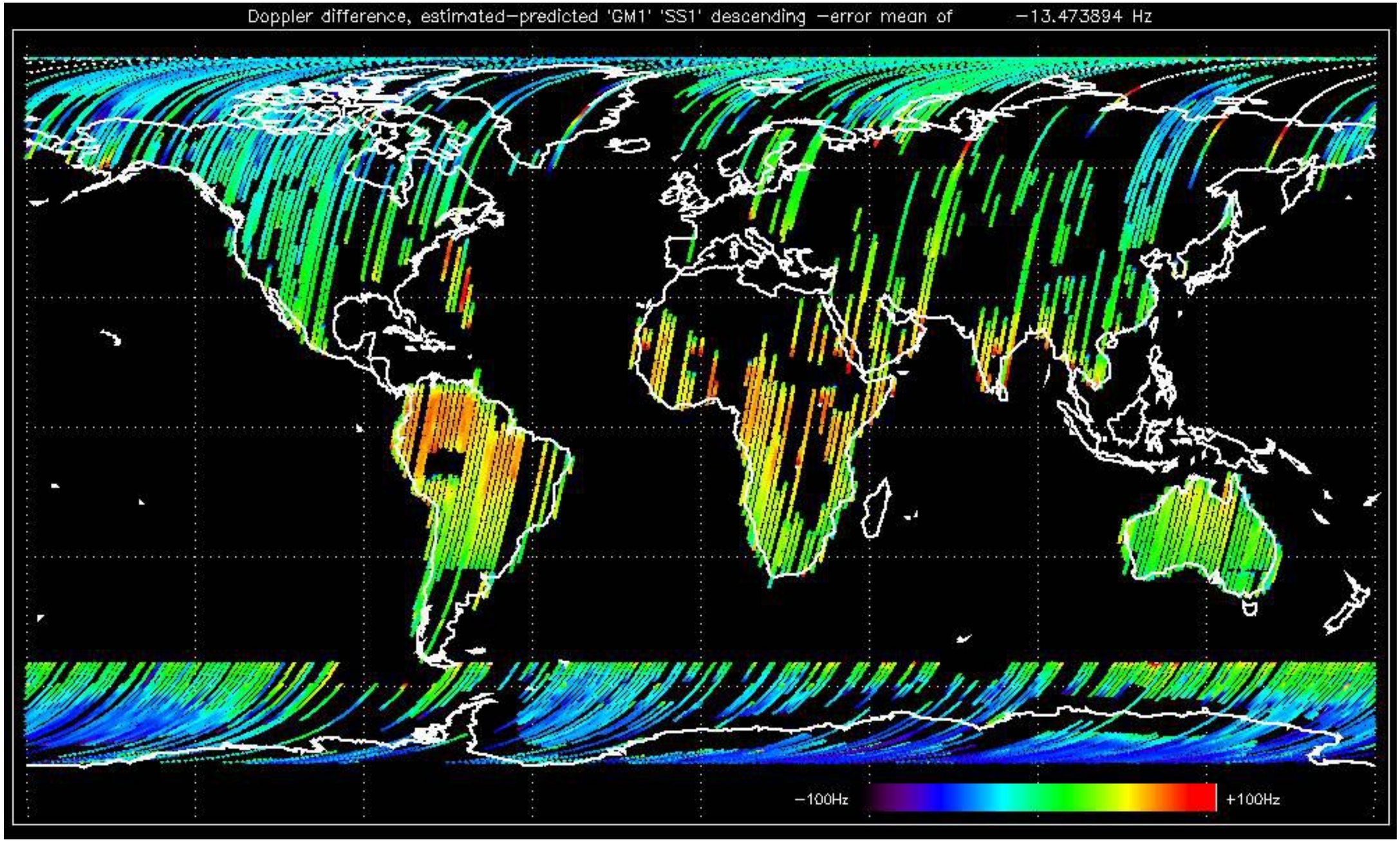

Doppler Bias[Hz]
600
400
200
0
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
01−Nov
Date

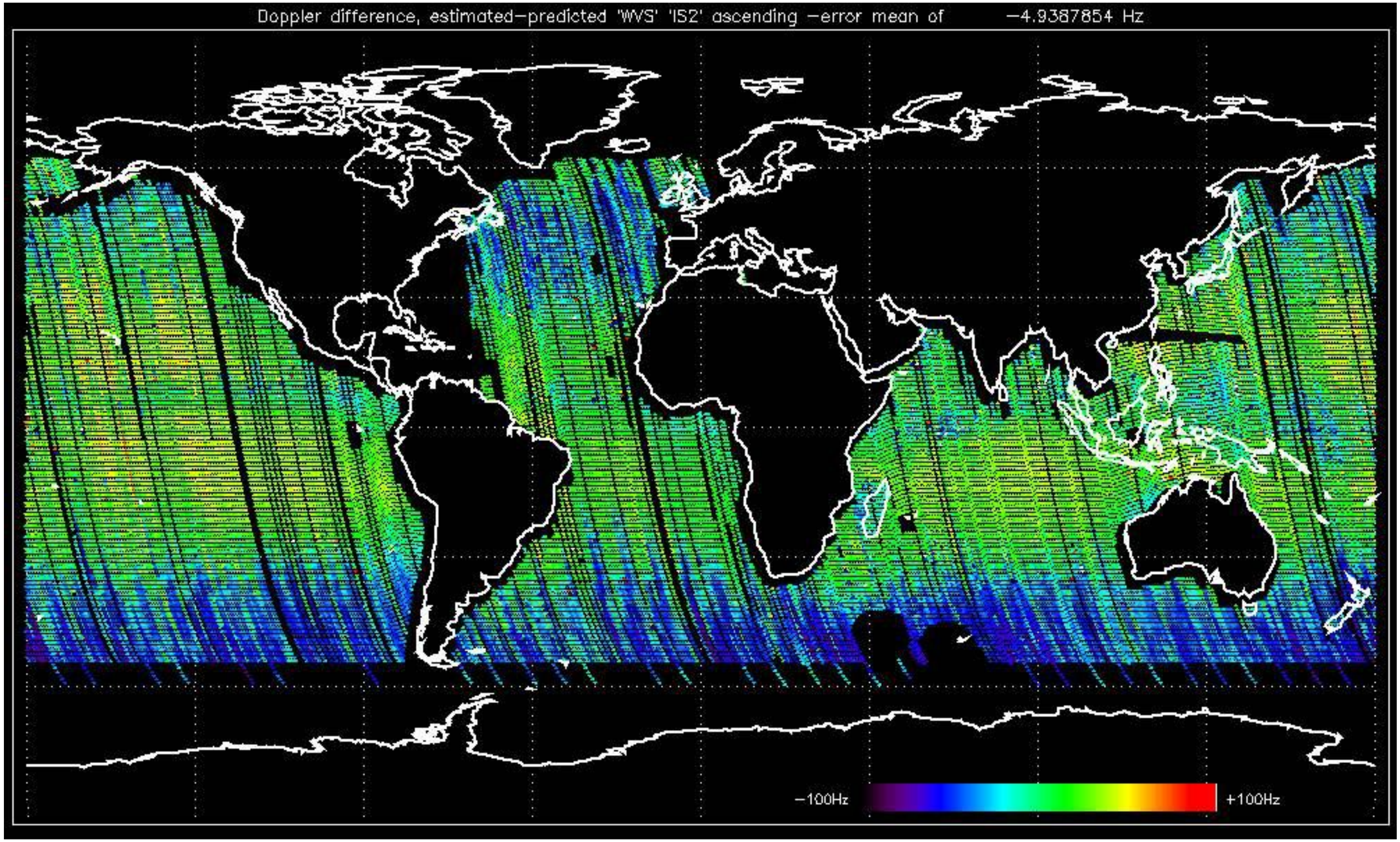

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

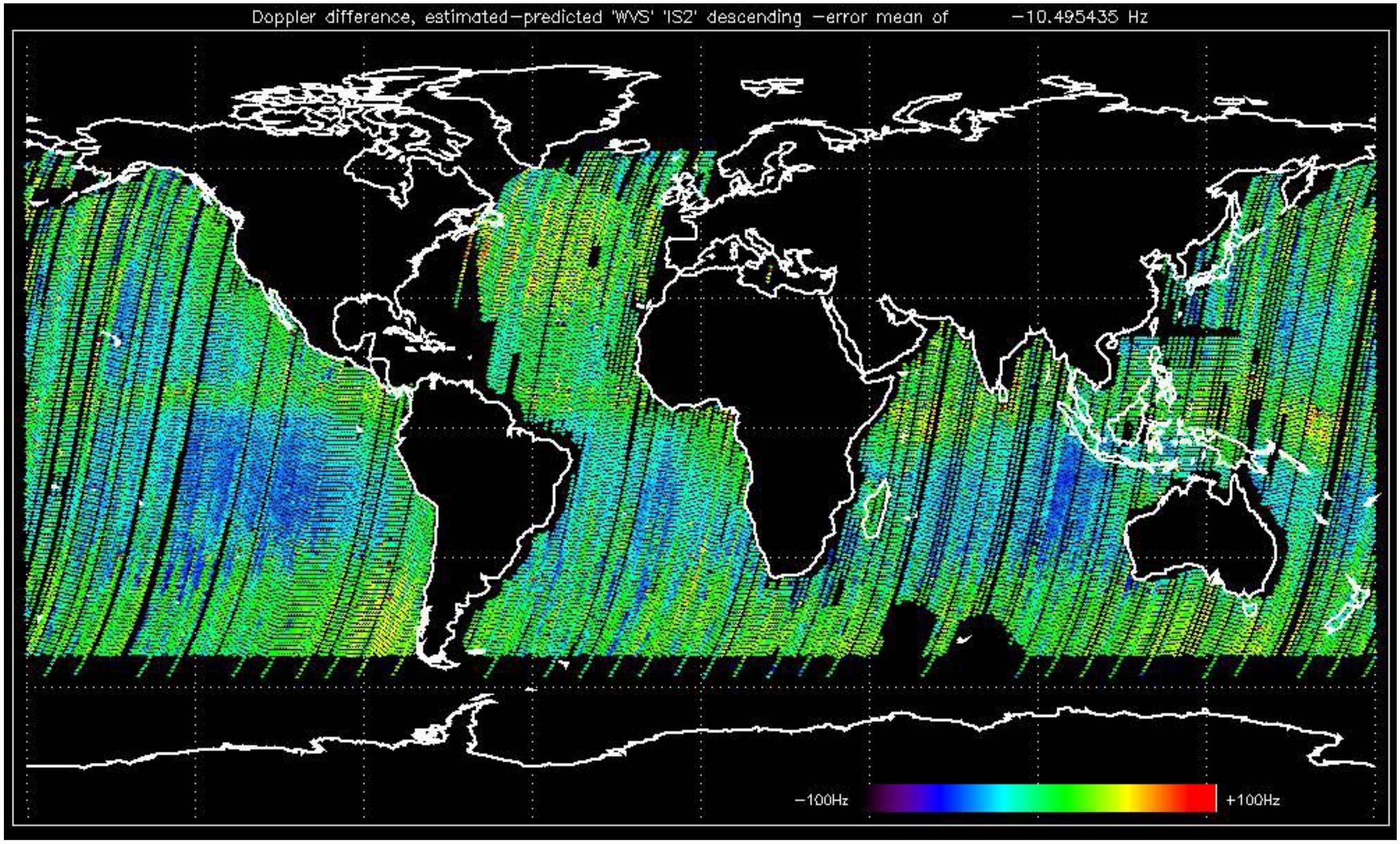

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −19.636447 Hz
−100Hz
+100Hz

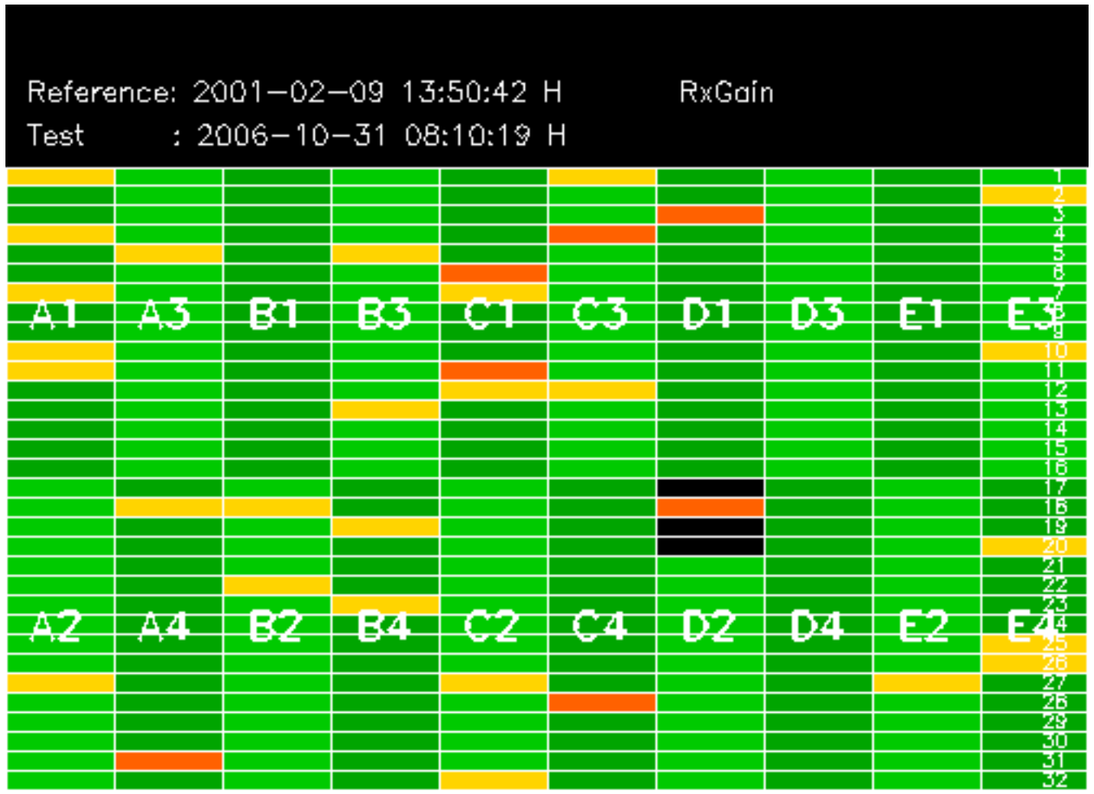

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −13.473894 Hz
−100Hz
+100Hz

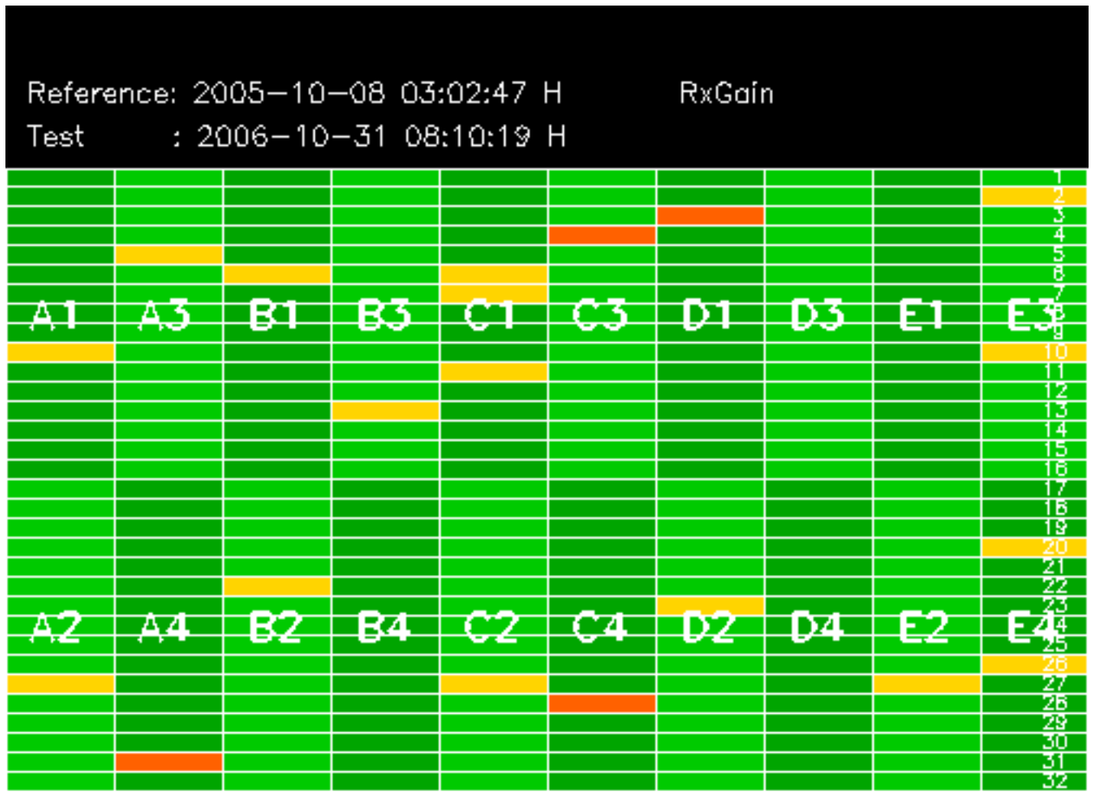

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −4.9387854 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.495435 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-10-31 08:10:19 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 : 2006-10-31 08:10:19 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
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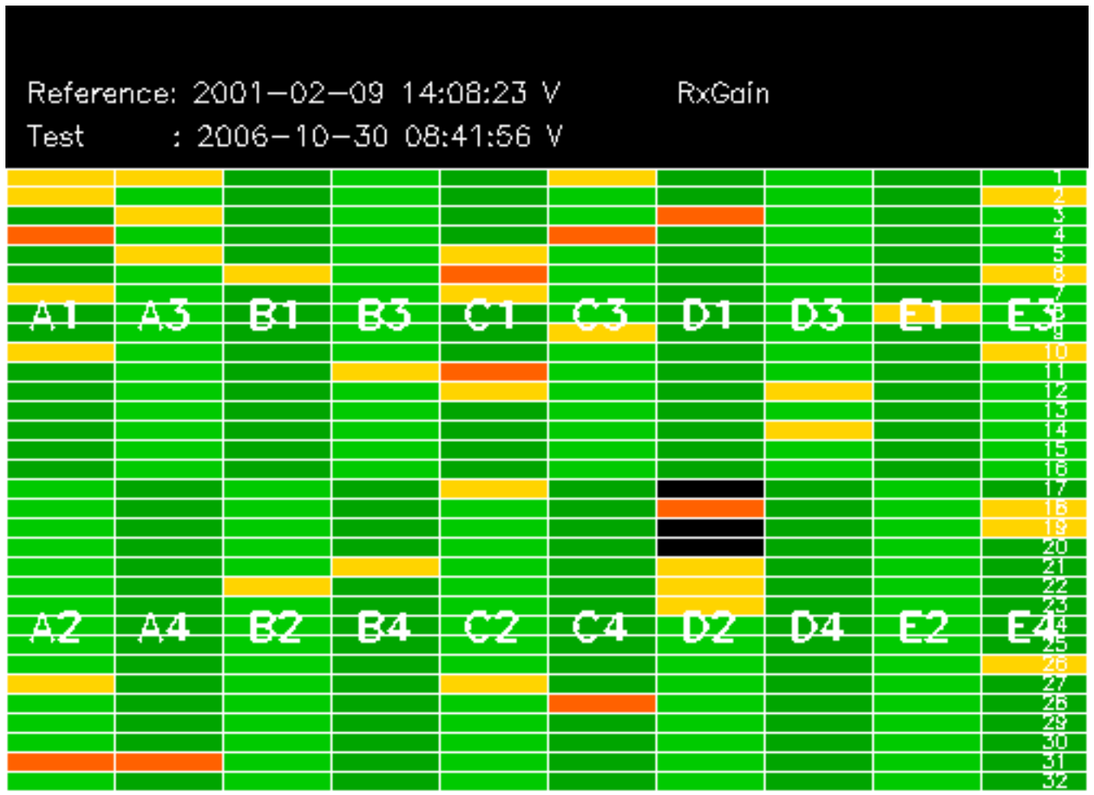
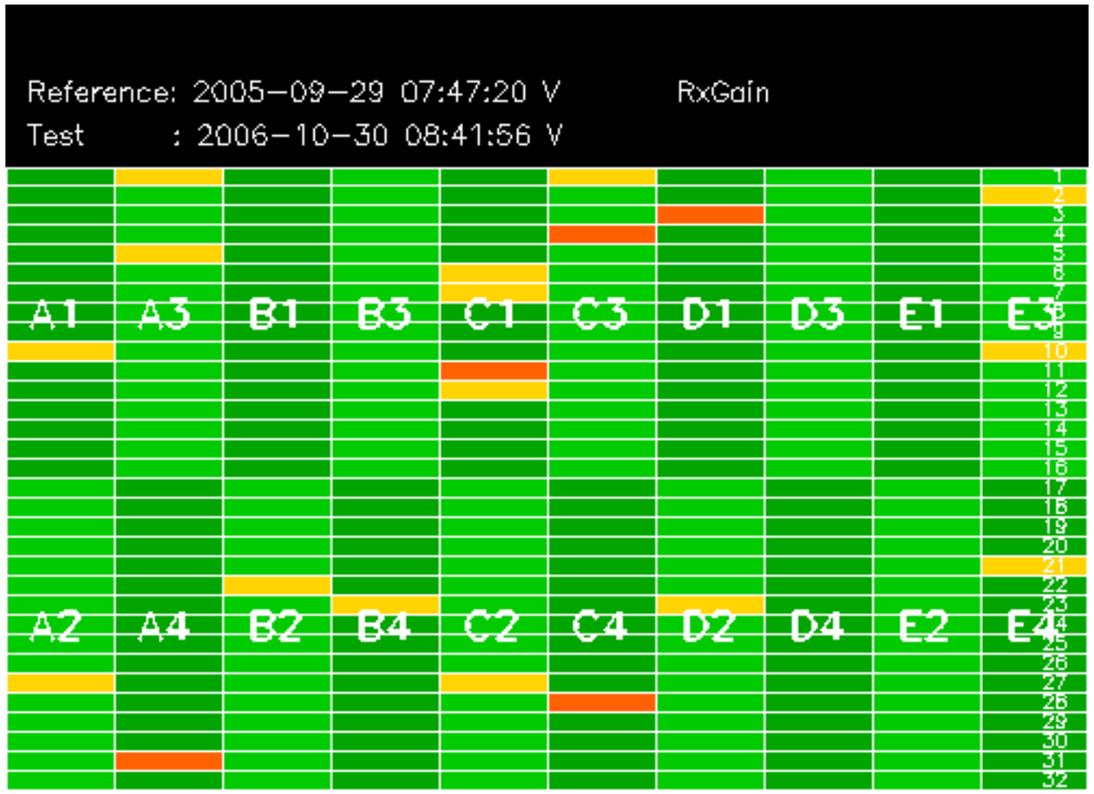

Reference: 2001-02-09 14:08:23 V
Test : 2006-10-30 08:41:56 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-10-30 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
1
2
3
4
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8
9
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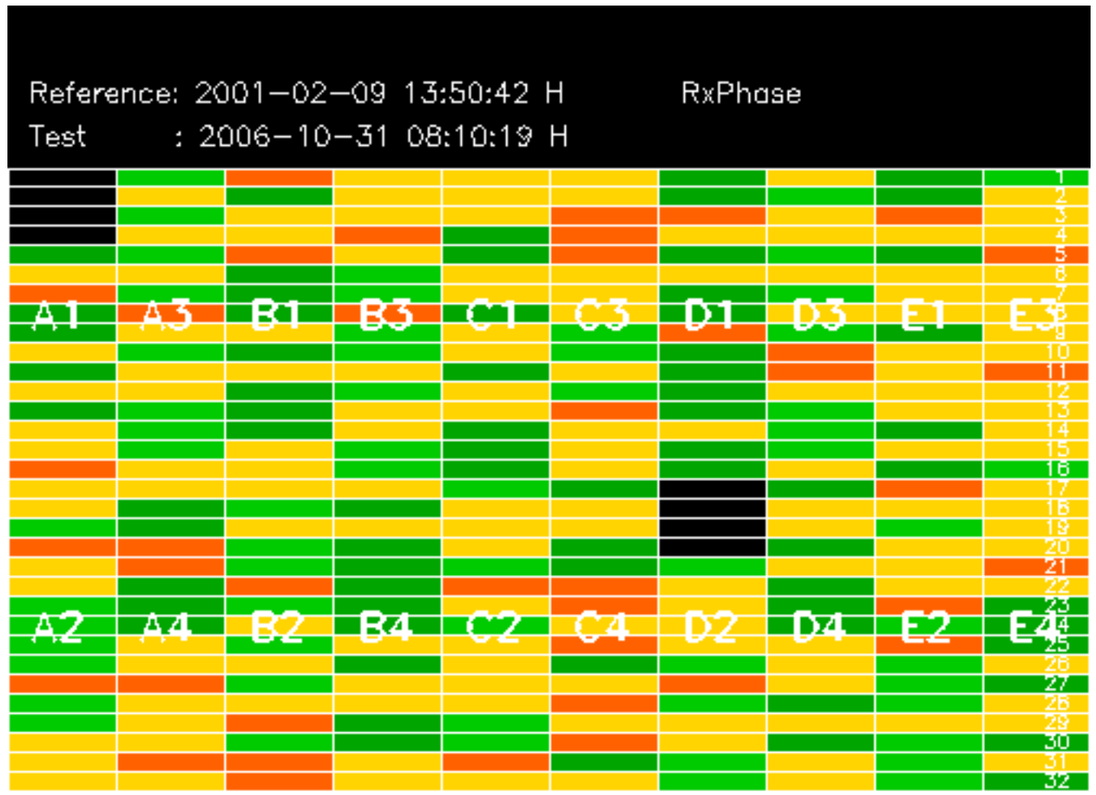
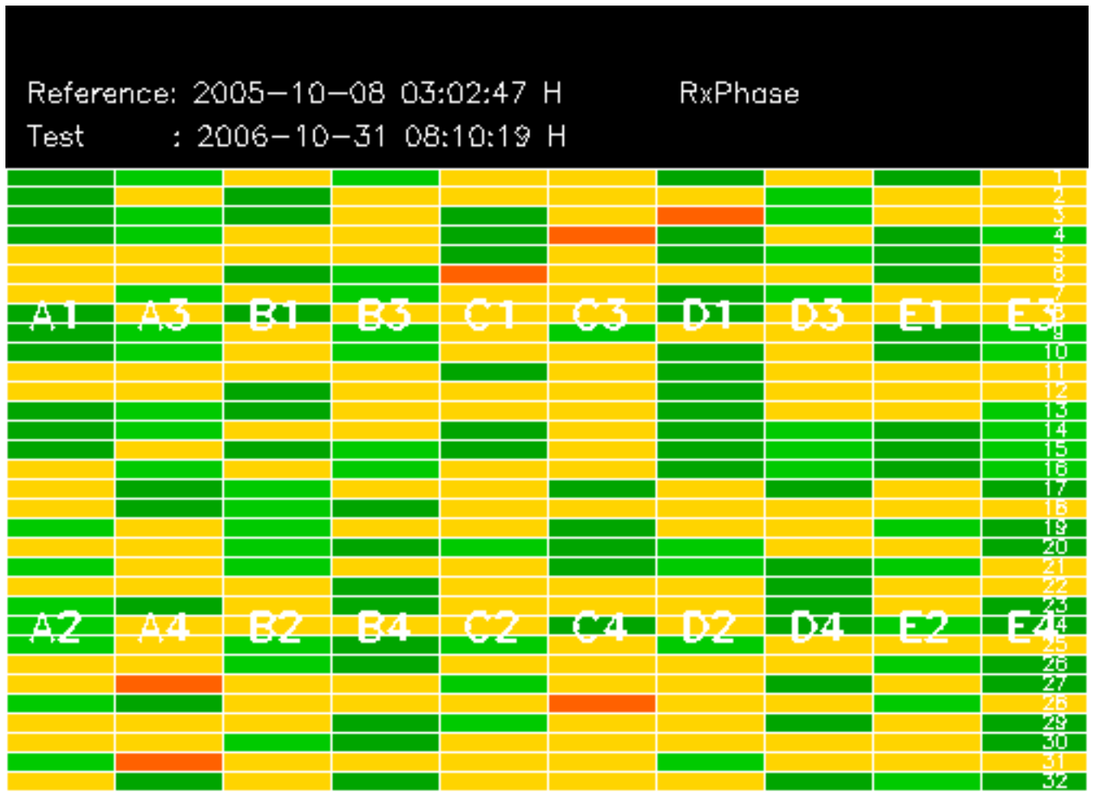
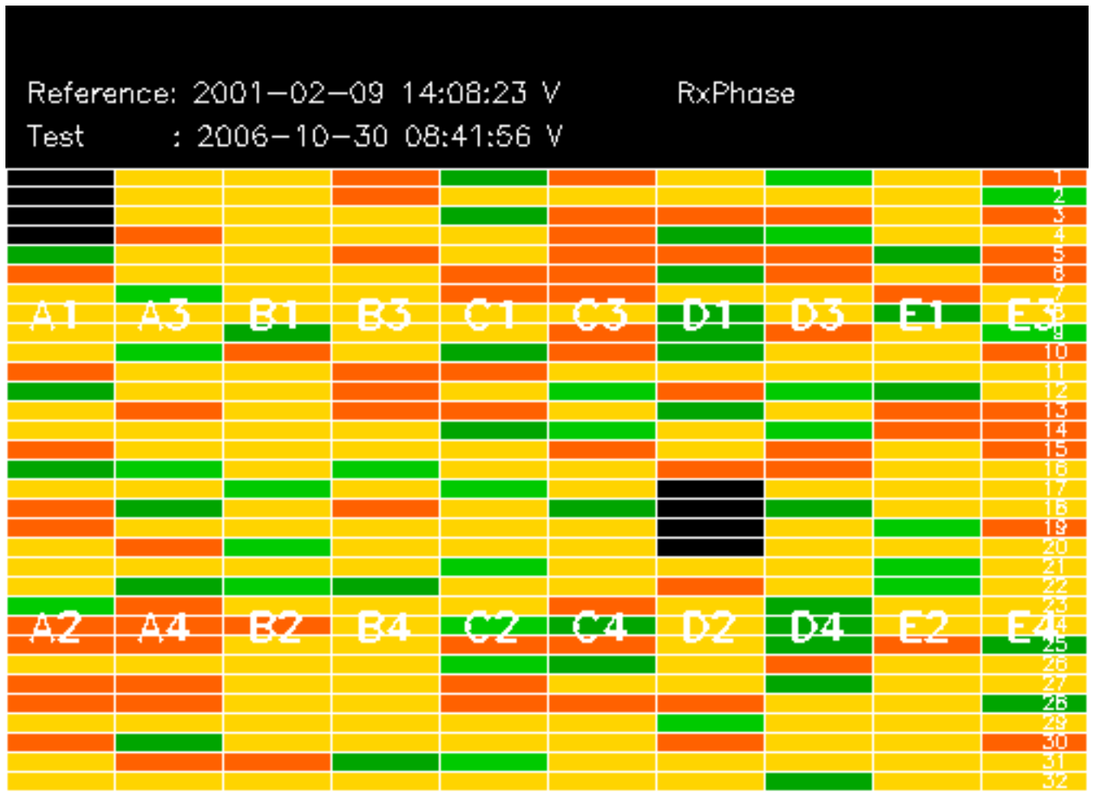
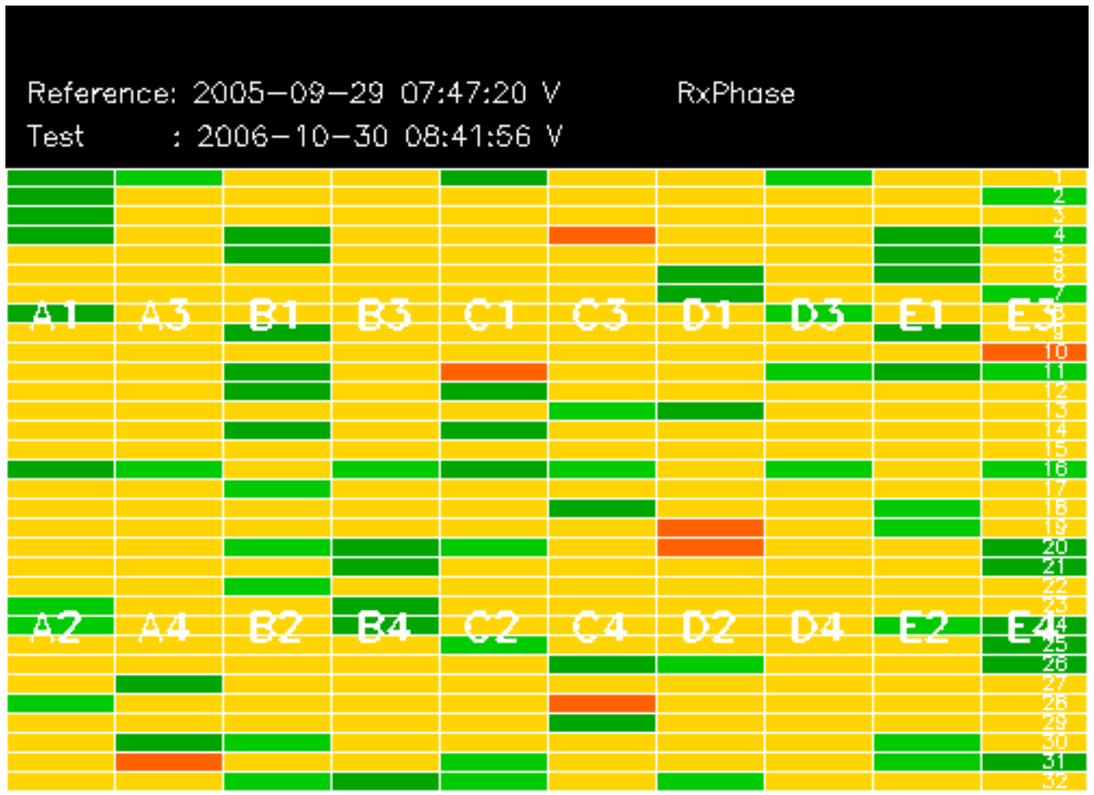
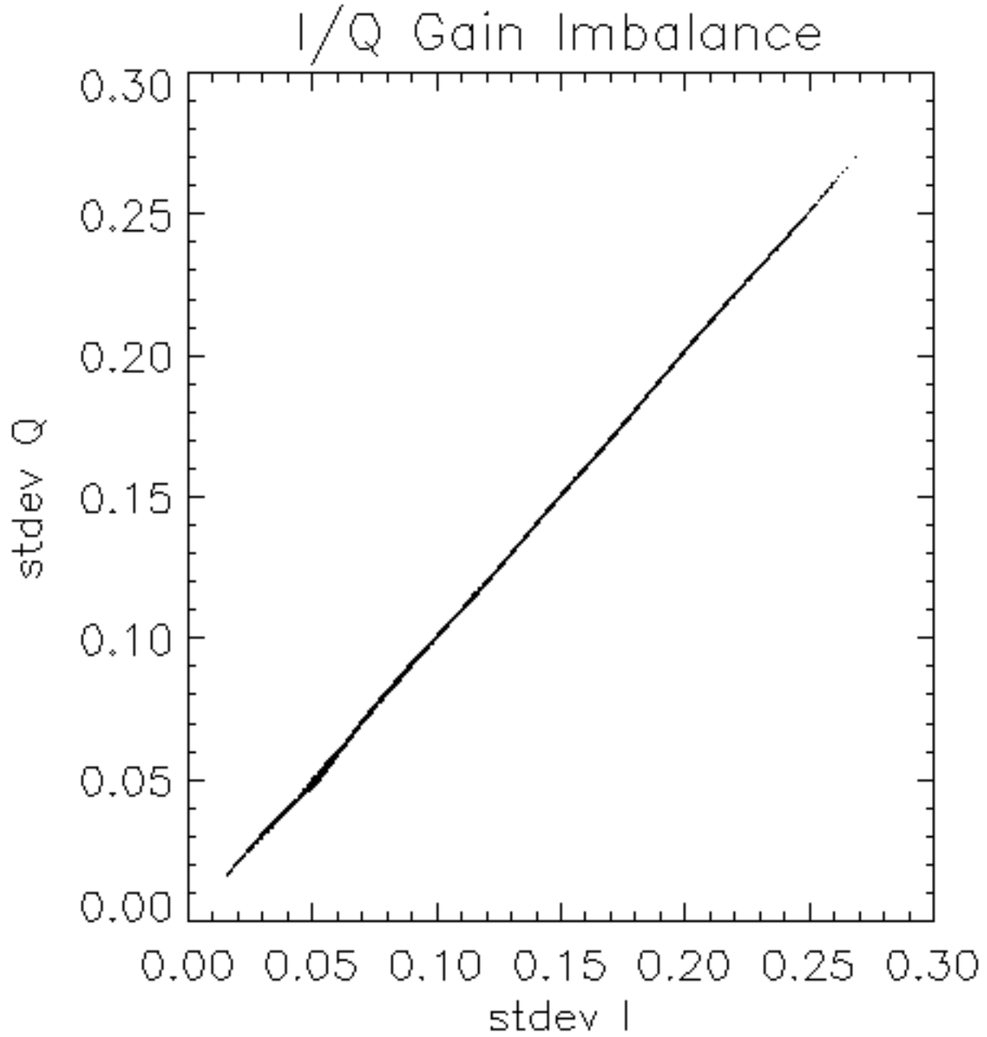
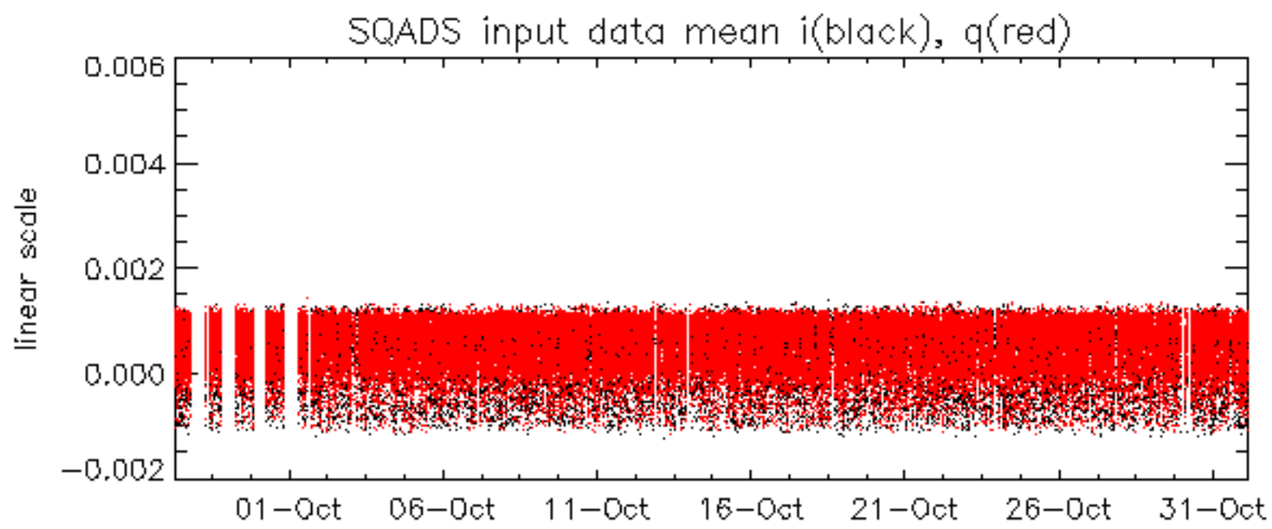

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-10-31 08:10:19 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

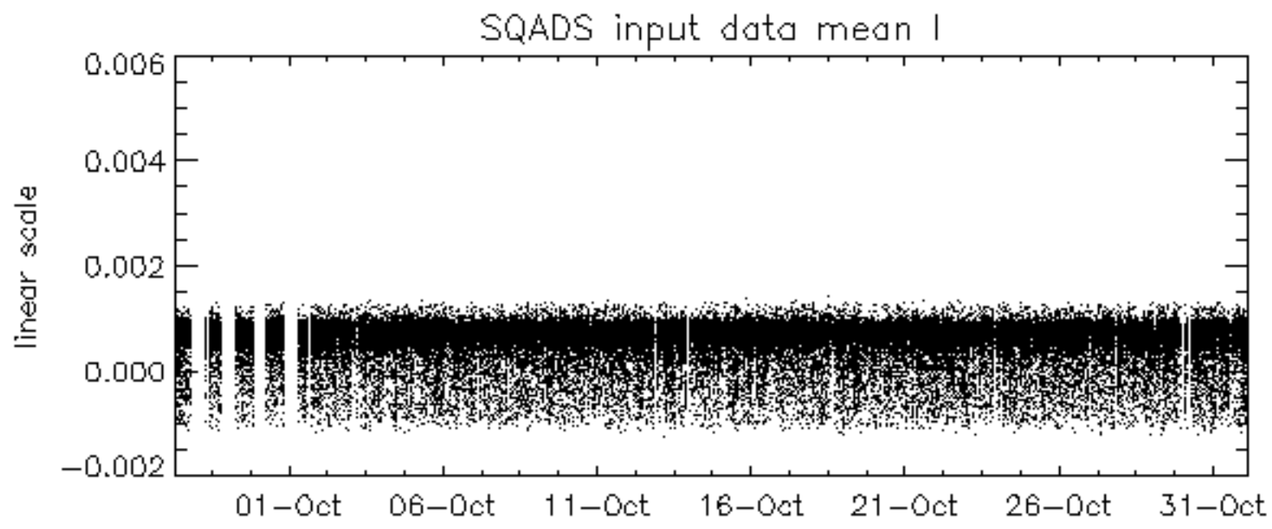

Reference: 2005-10-08 03:02:47 H
Test : 2006-10-31 08:10:19 H
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

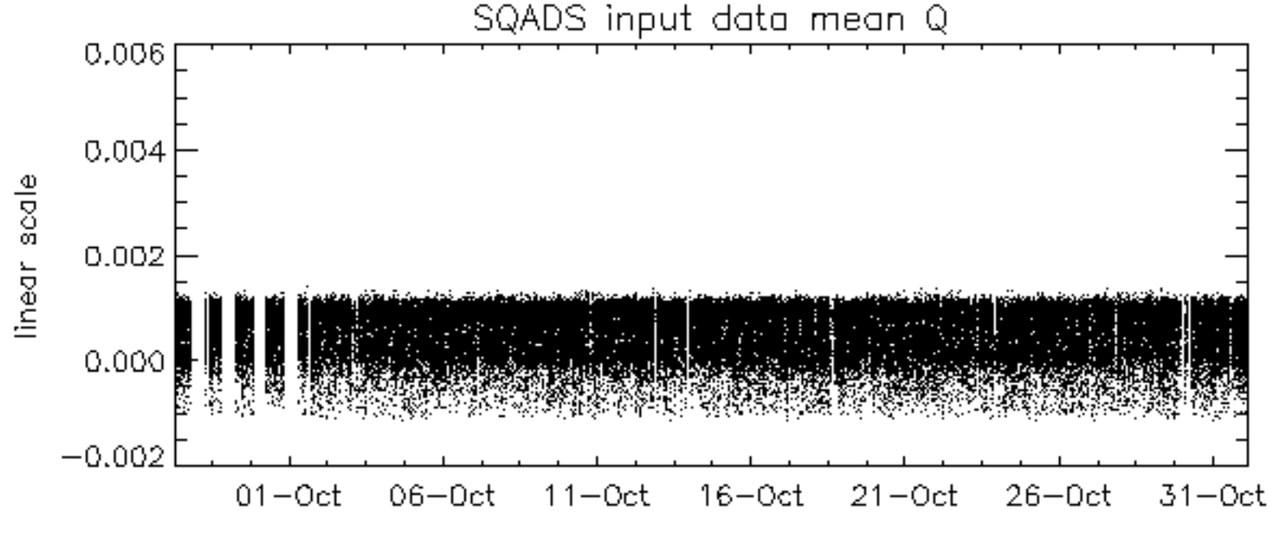

Reference: 2001-02-09 14:08:23 V
RxPhase
Test : 2006-10-30 08:41:56 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

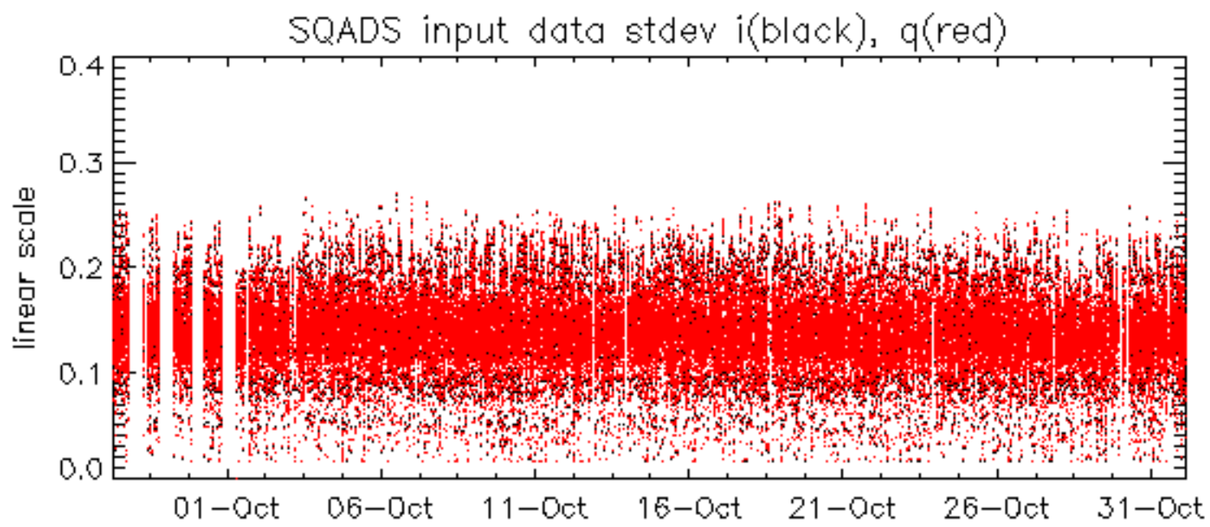

Reference: 2005-09-29 07:47:20 V
Test : 2006-10-30 08:41:56 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

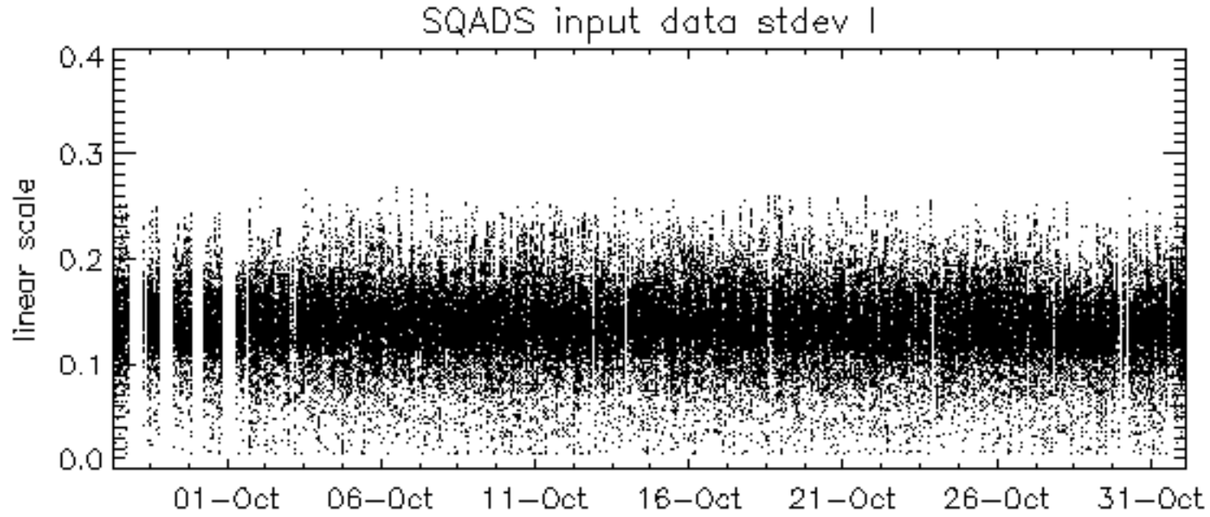

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

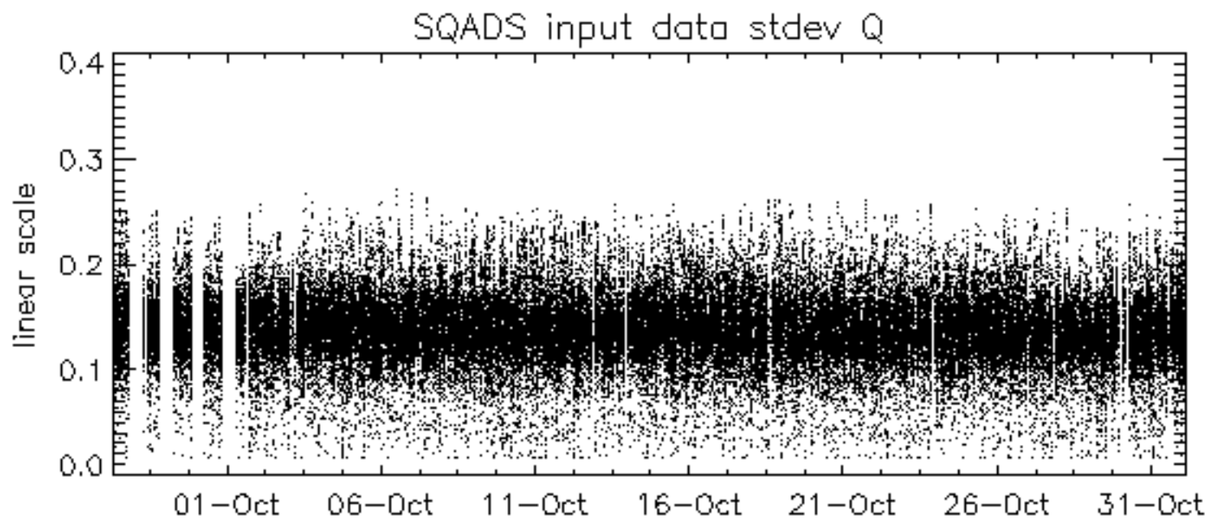

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct
31−Oct

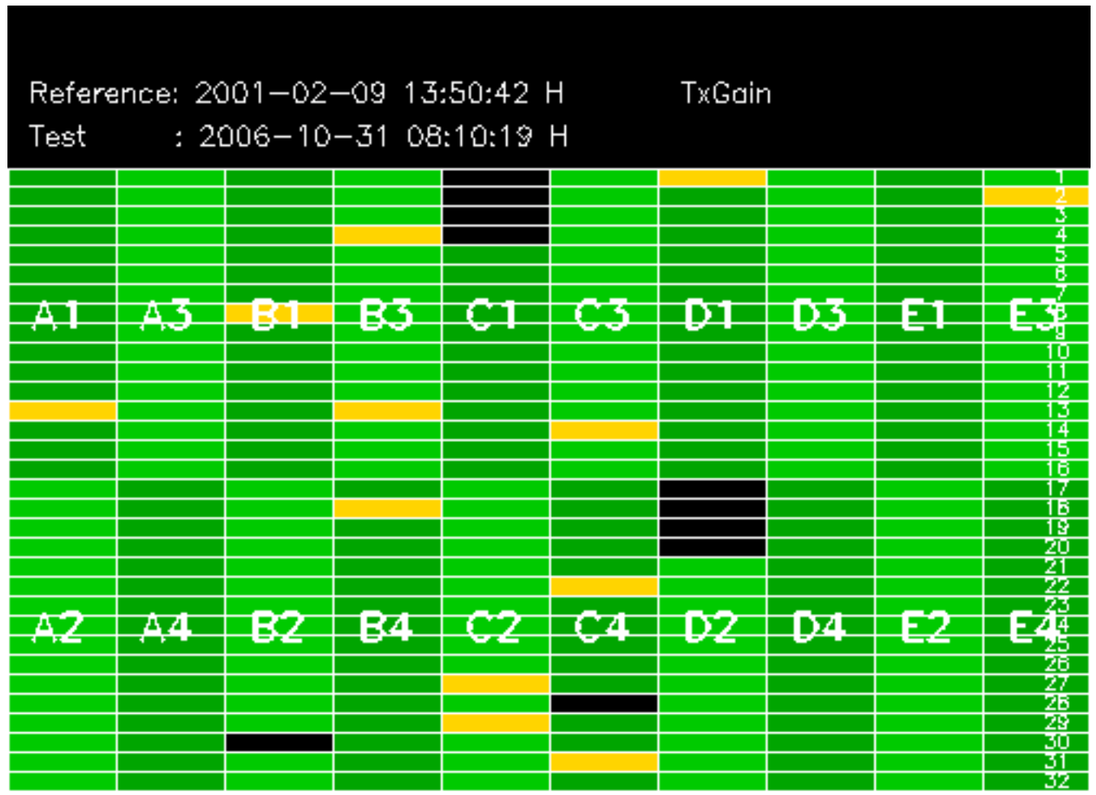

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
26−Oct
31−Oct


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2006-10-31 08:10:19 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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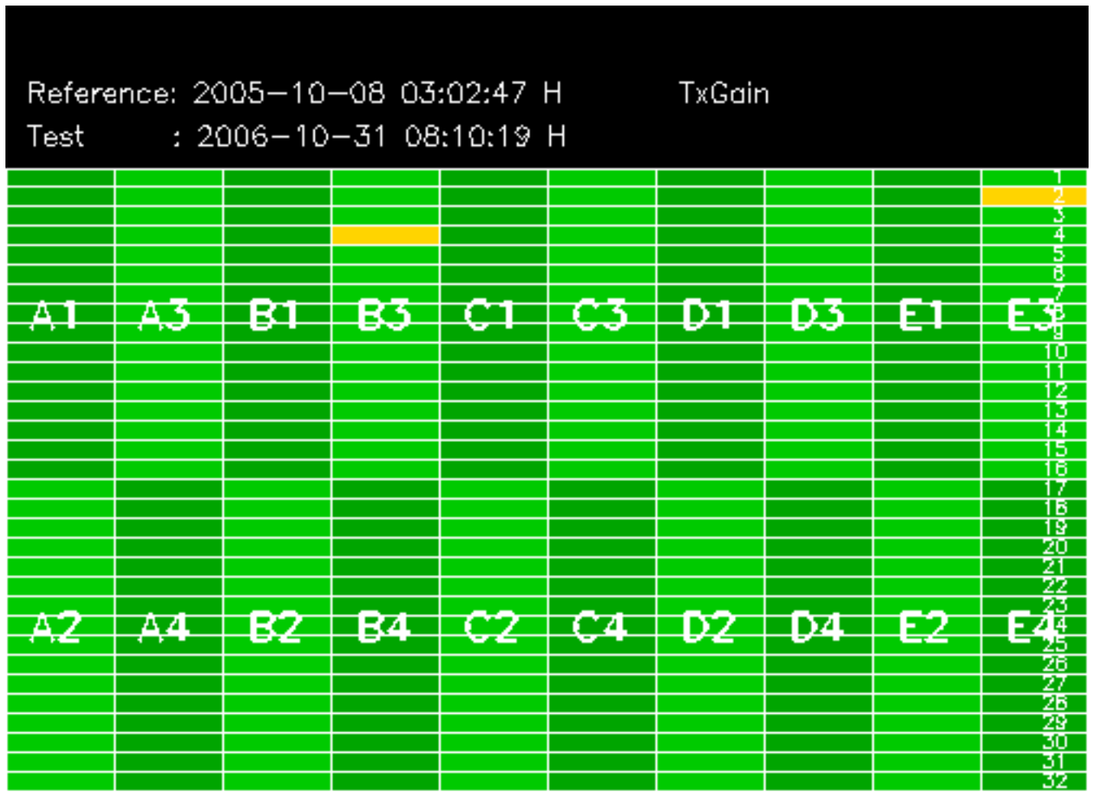
Reference: 2005-10-08 03:02:47 H
Test : 2006-10-31 08:10:19 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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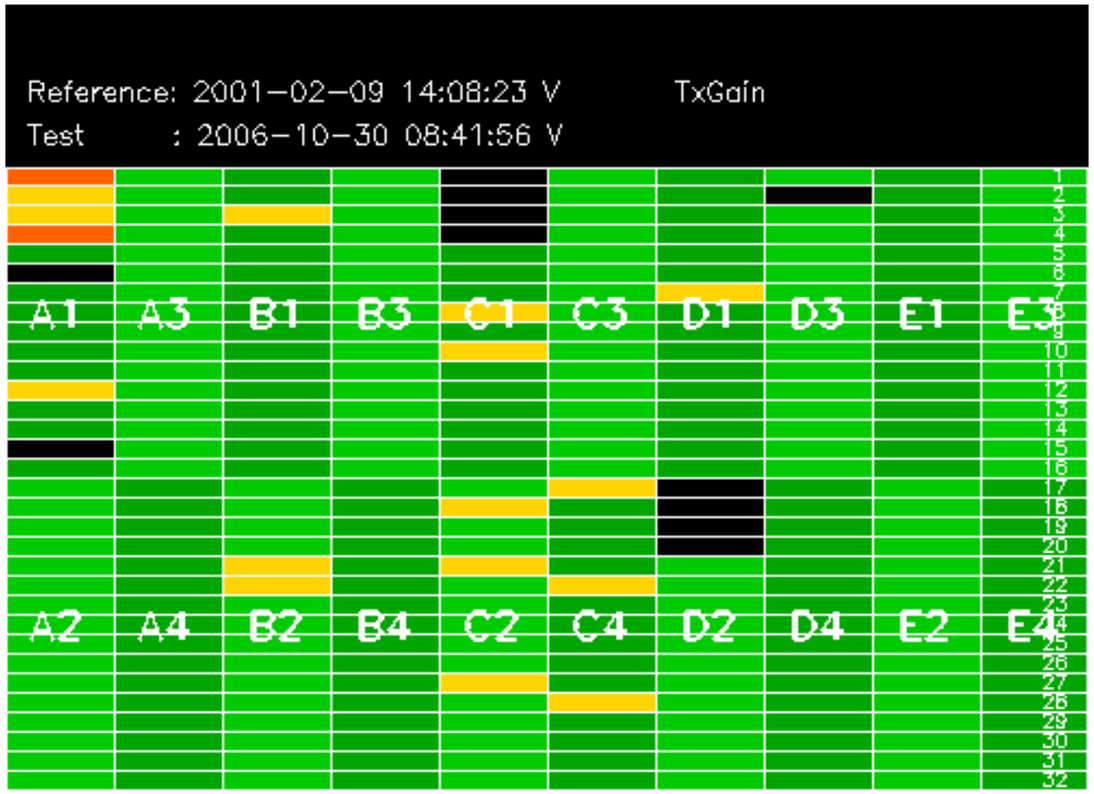
Reference: 2001-02-09 14:08:23 V
Test : 2006-10-30 08:41:56 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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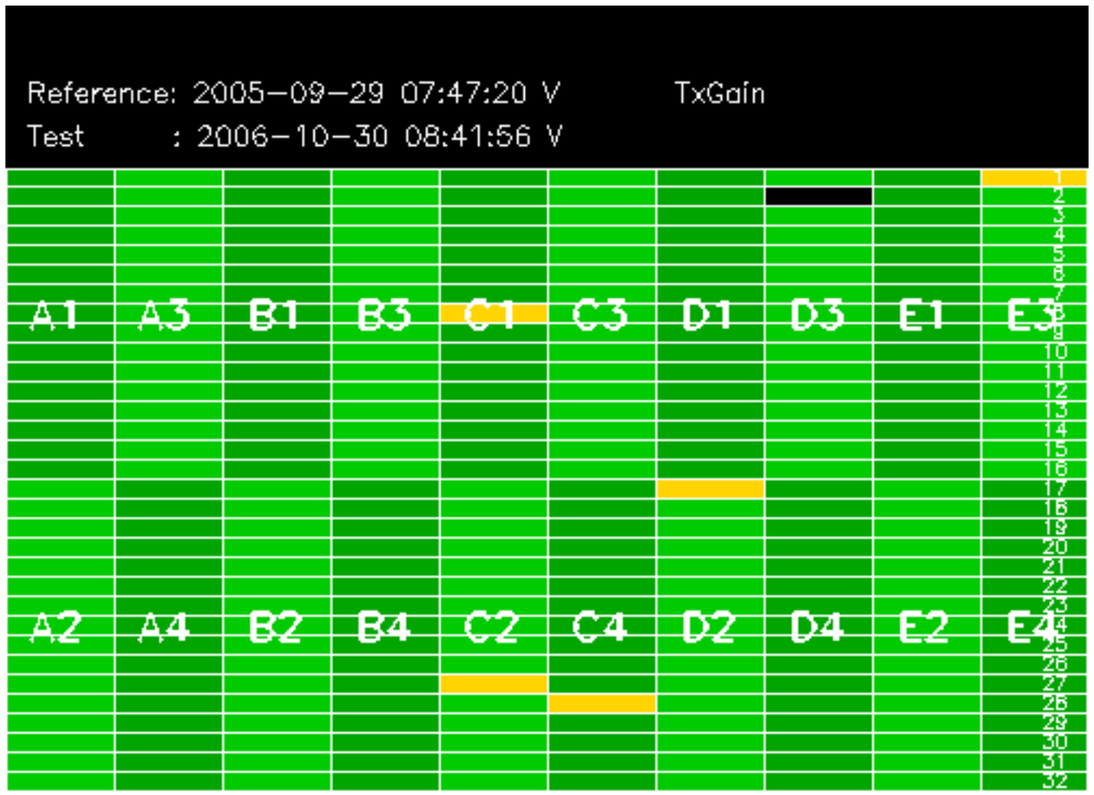
Reference: 2005-09-29 07:47:20 V
Test : 2006-10-30 08:41:56 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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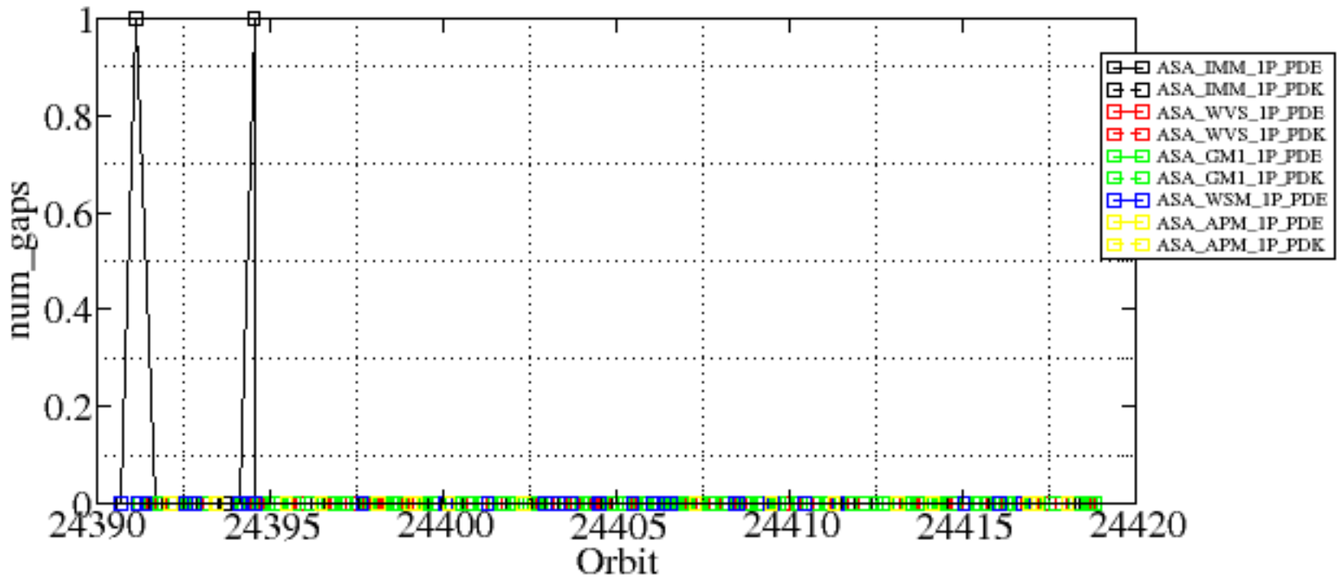
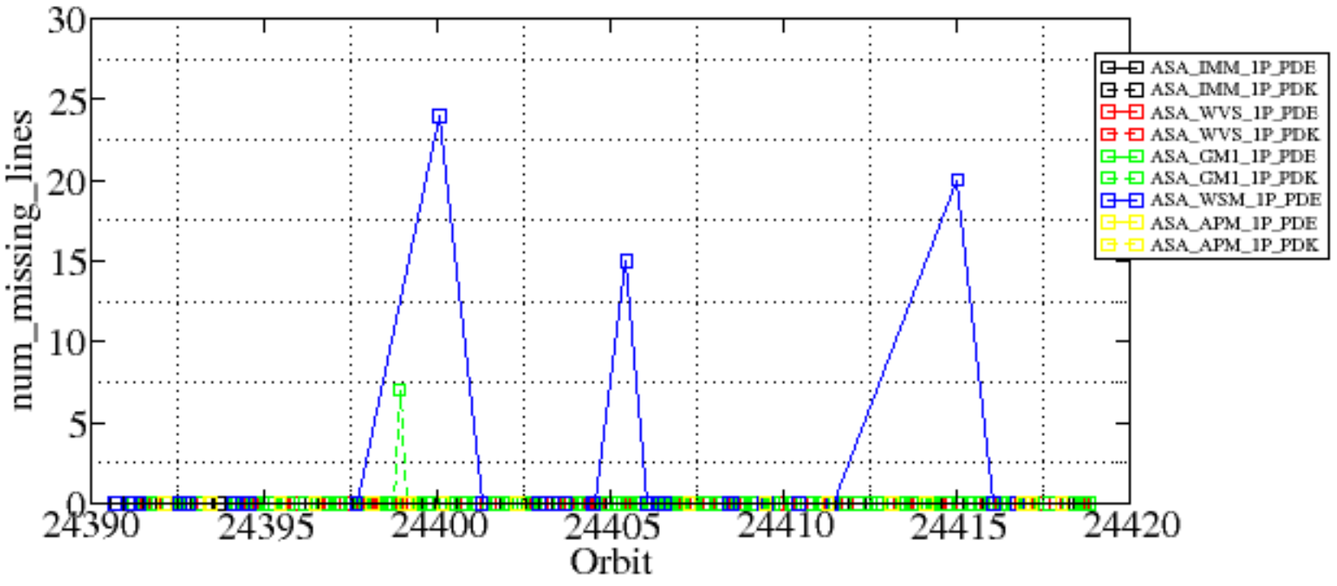
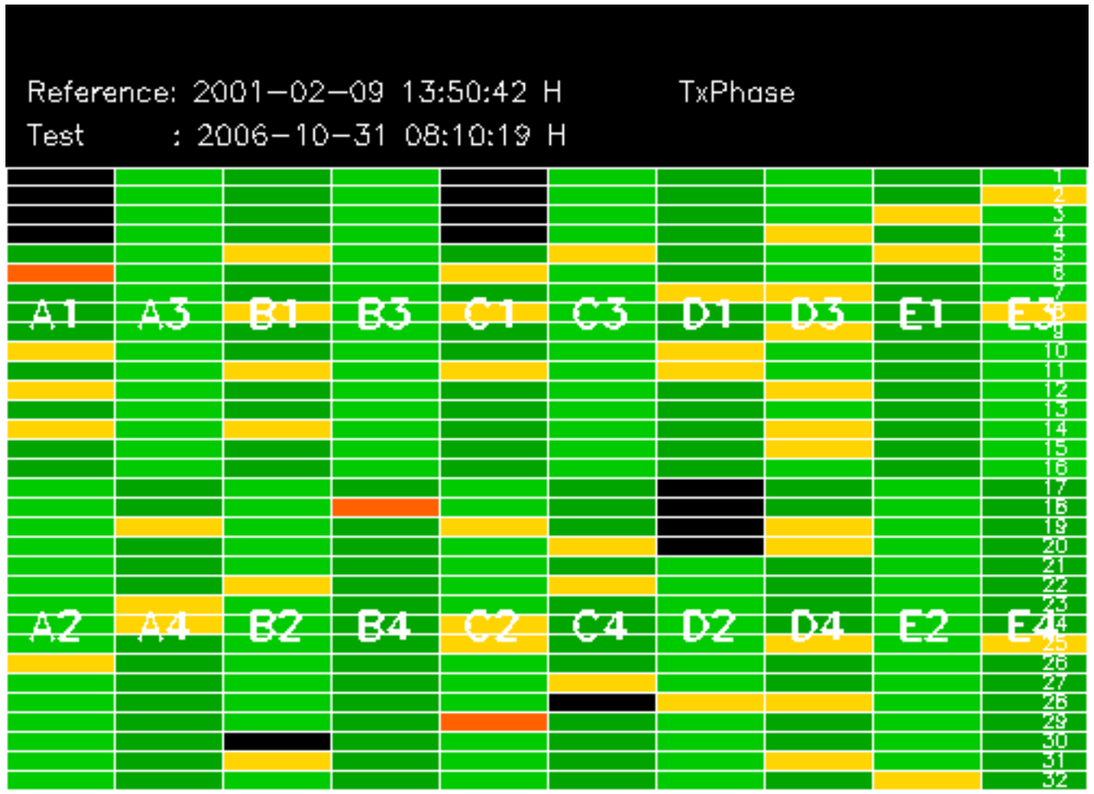
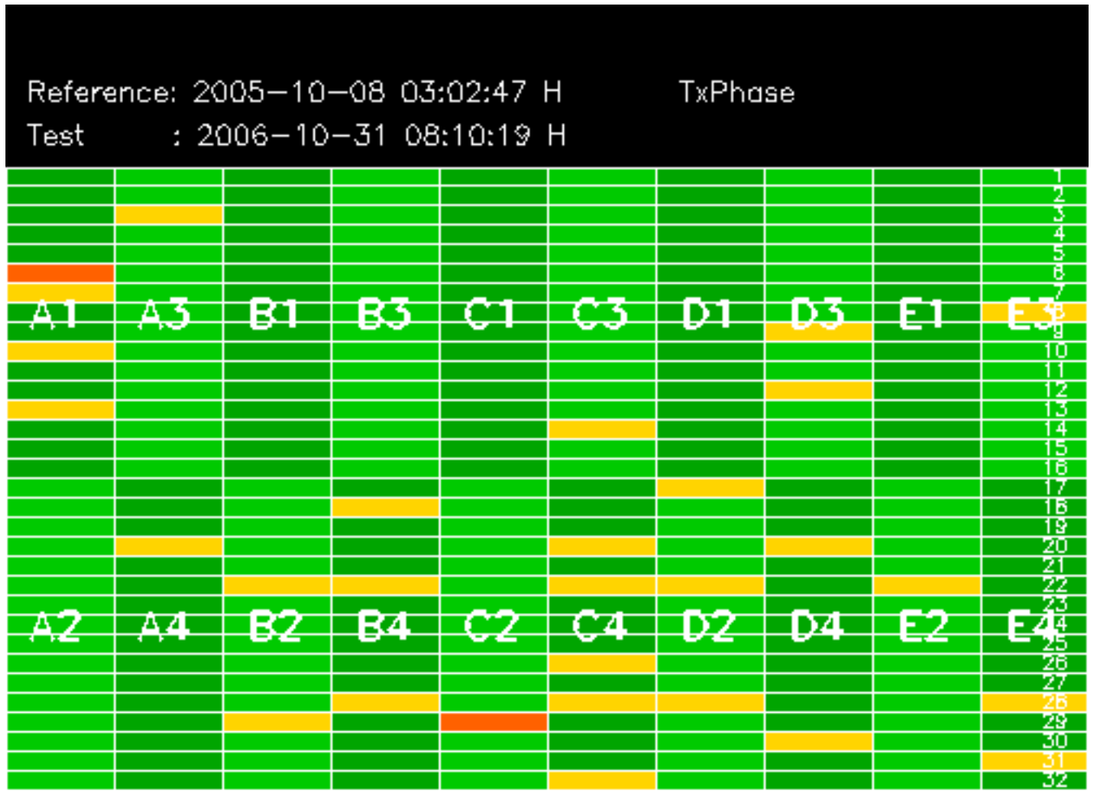
Summary of analysis for the last 3 days 2006103[011]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20061030_010452_000000932052_00289_24391_0001.N1	1	0
ASA_IMM_1PNPDE20061030_064719_000000342052_00292_24394_7664.N1	1	0
ASA_GM1_1PNPDK20061030_140740_000002832052_00296_24398_7654.N1	0	7
ASA_WSM_1PNPDE20061030_160313_000000852052_00298_24400_0001.N1	0	24
ASA_WSM_1PNPDE20061031_010559_000000852052_00303_24405_0001.N1	0	15
ASA_WSM_1PNPDE20061031_170842_000003302052_00313_24415_0001.N1	0	20


num_gaps
1
0.8
0.6
0.4
0.2
0
24390
24395
24400
24405
24410
24415
24420
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_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
30
25
20
15
10
5
0
24390
24395
24400
24405
24410
24415
24420
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_APM_1P_PDE
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
TxPhase
Test : 2006-10-31 08:10:19 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
Test : 2006-10-31 08:10:19 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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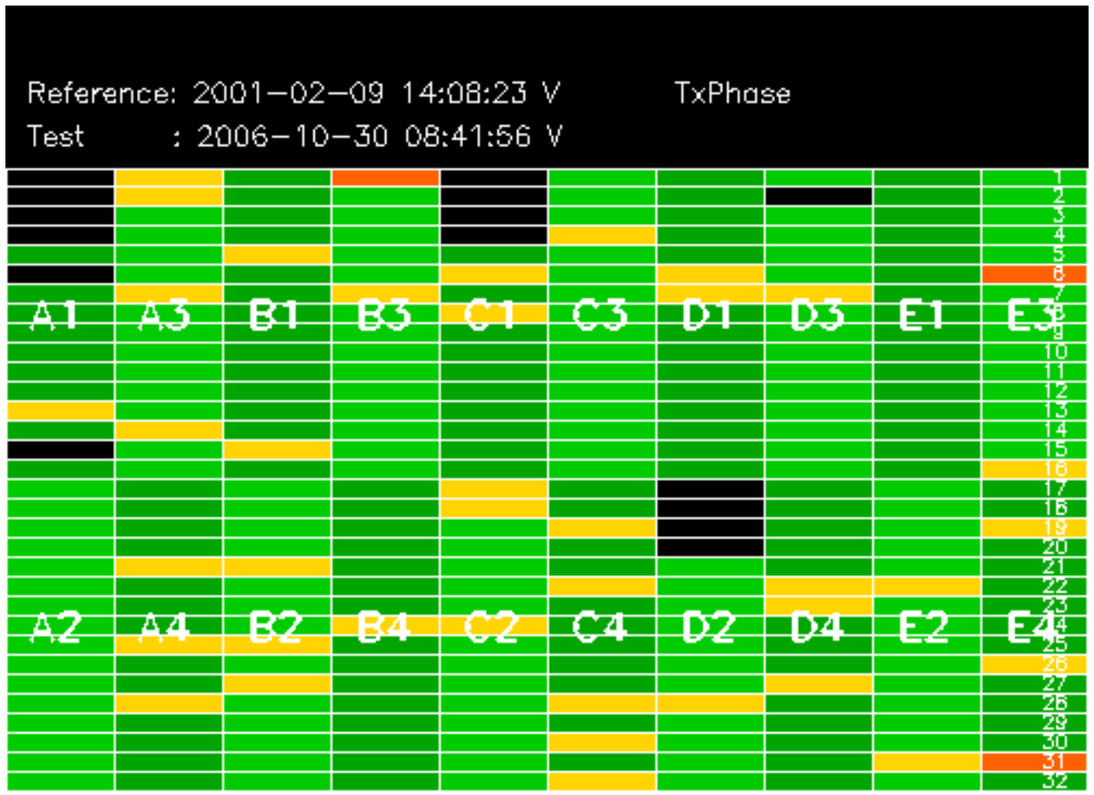
Reference: 2001-02-09 14:08:23 V
Test : 2006-10-30 08:41:56 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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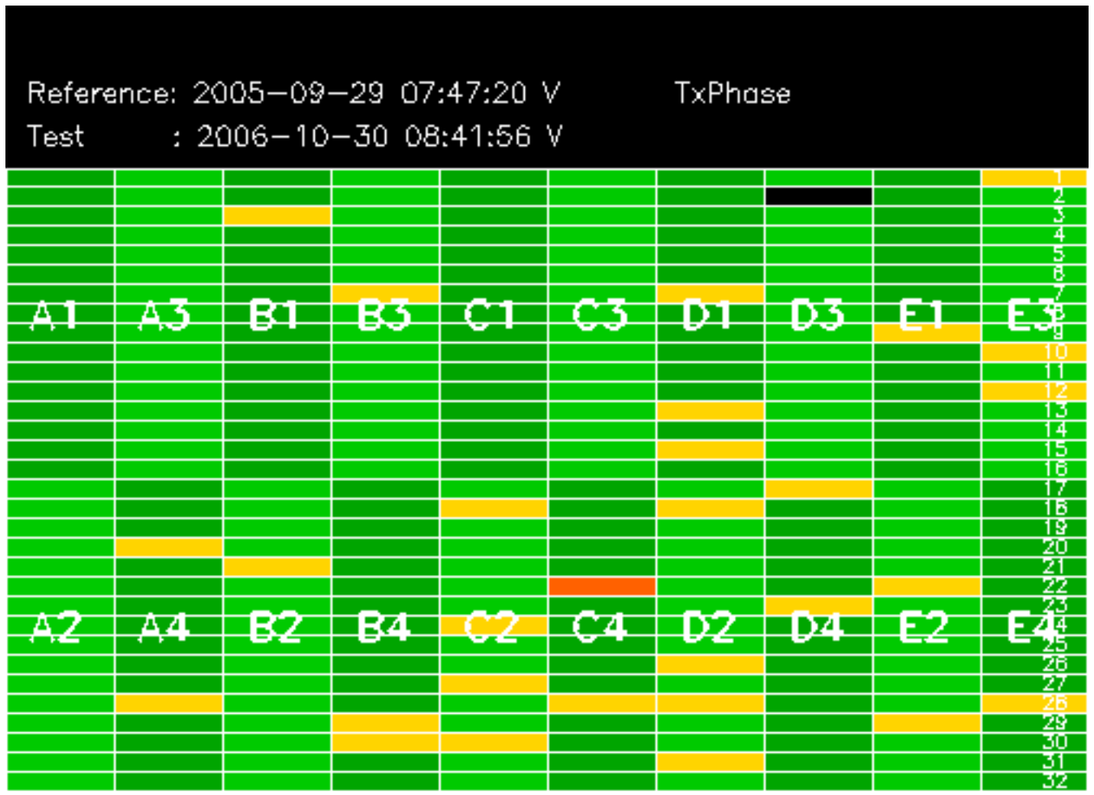
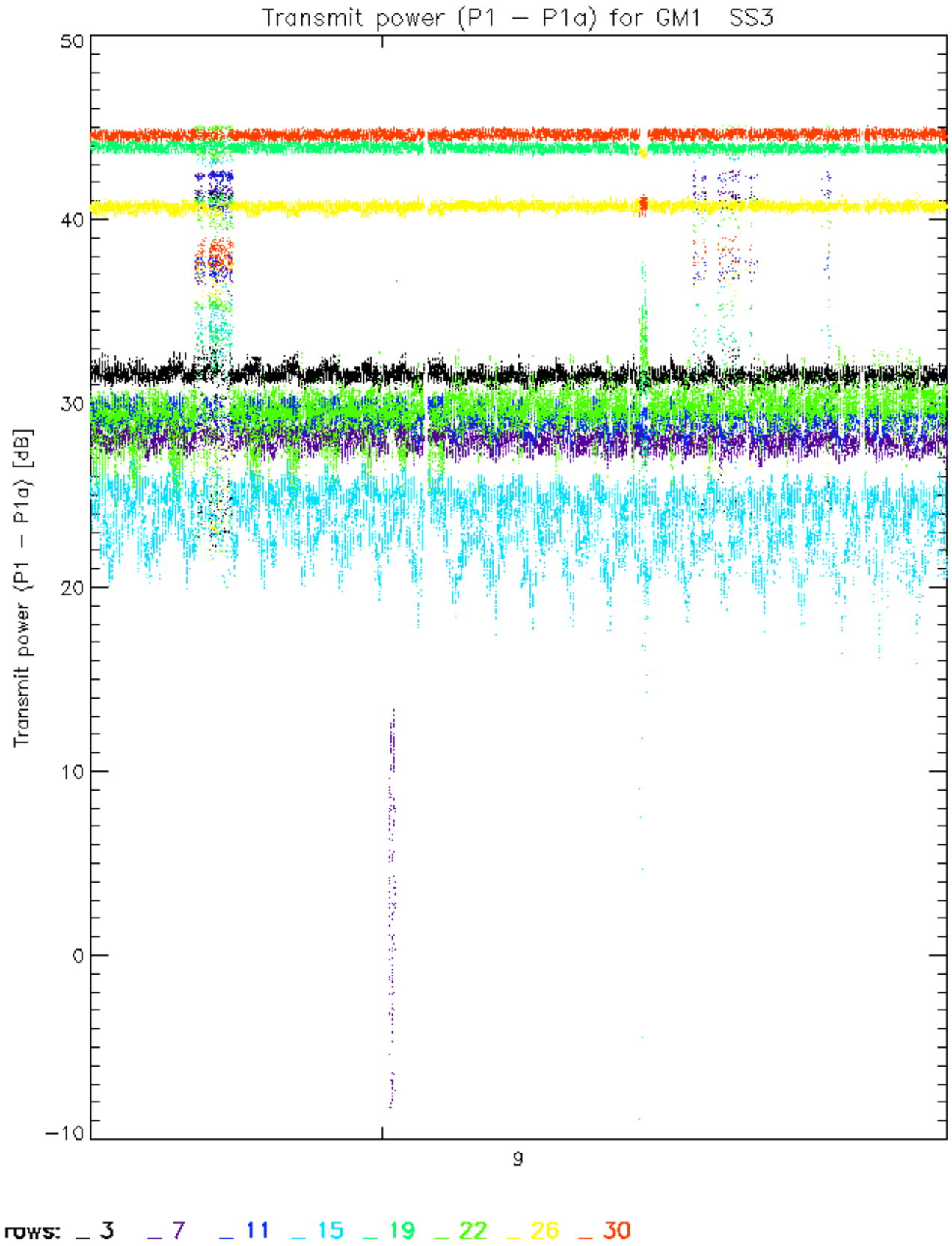
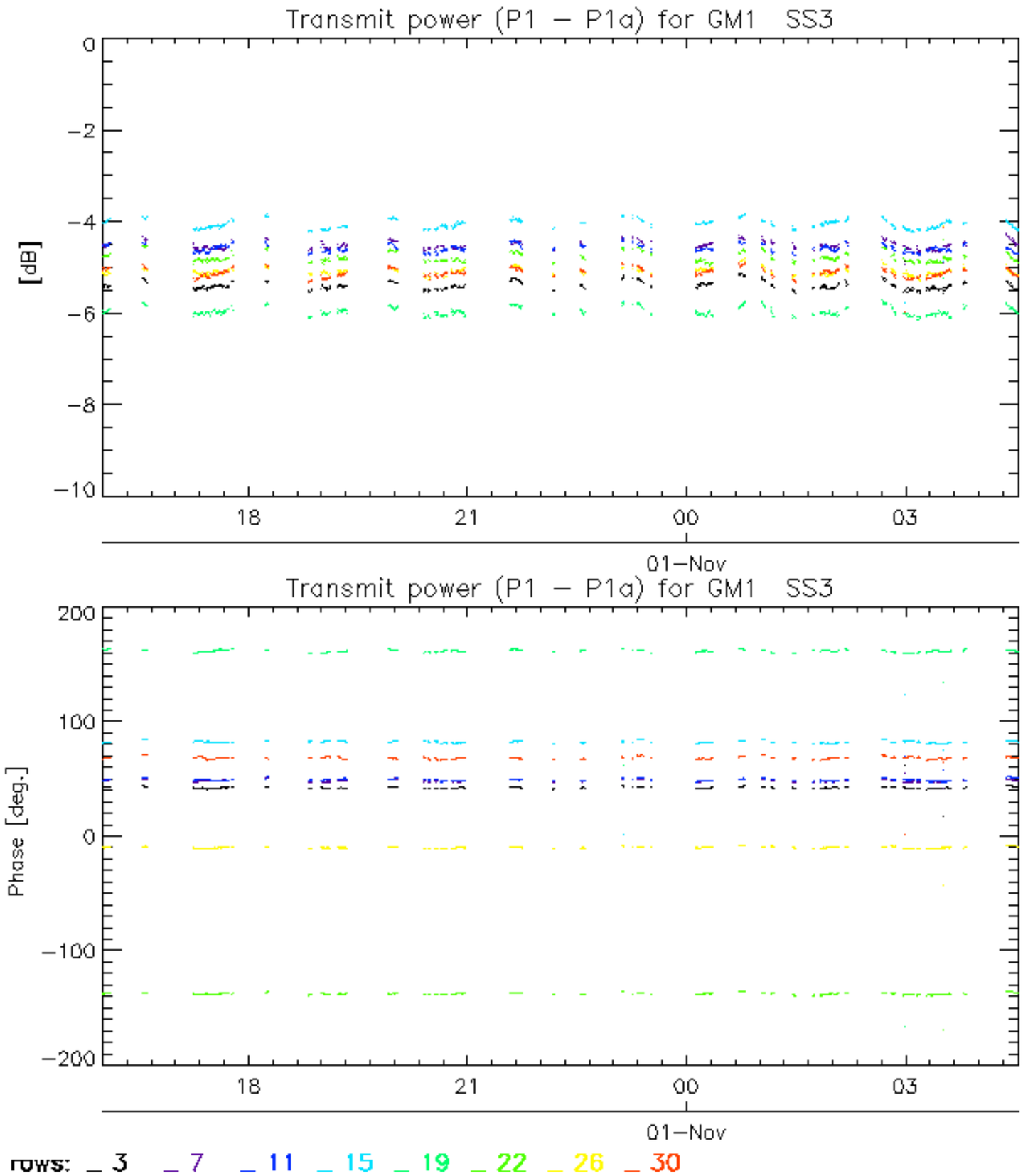
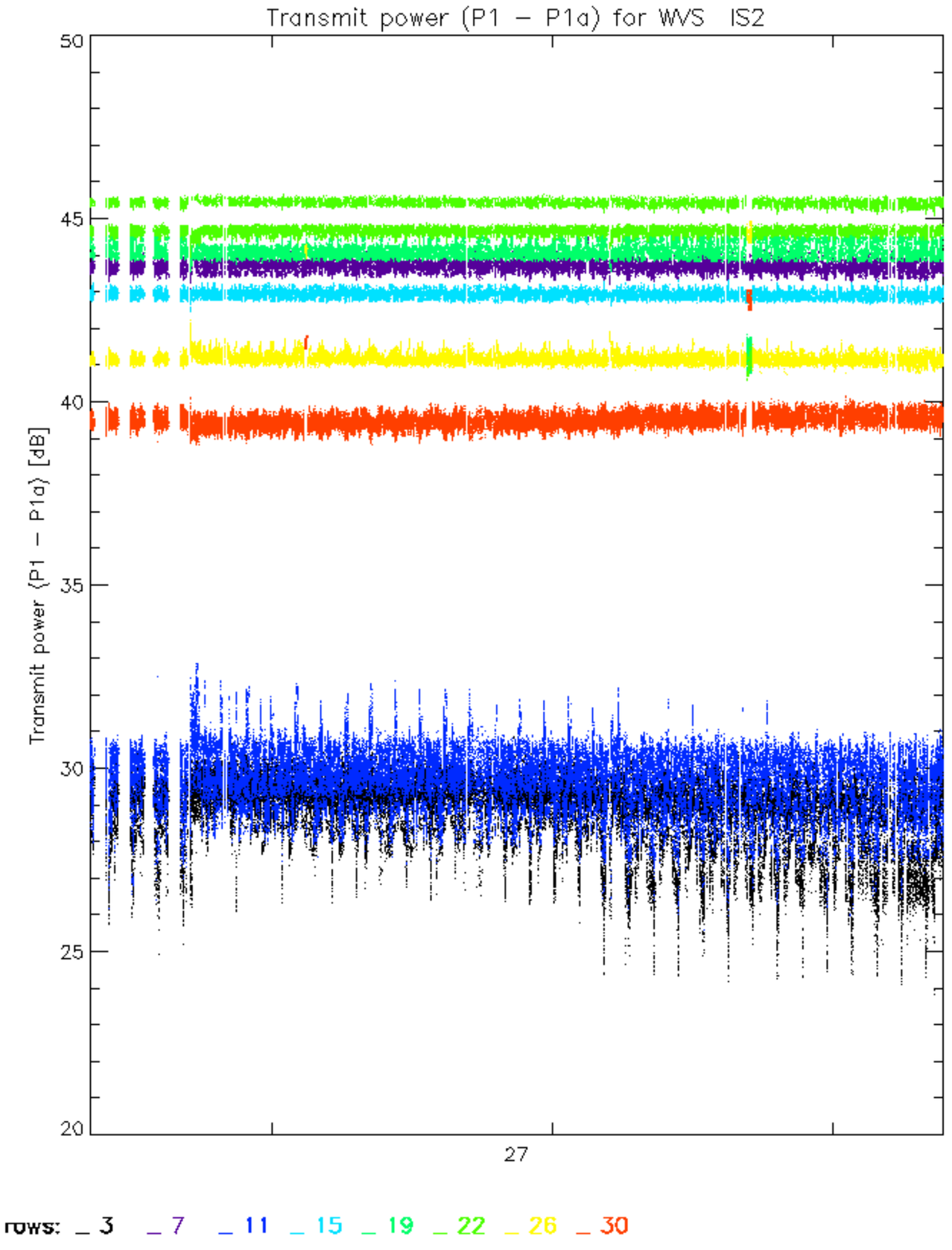
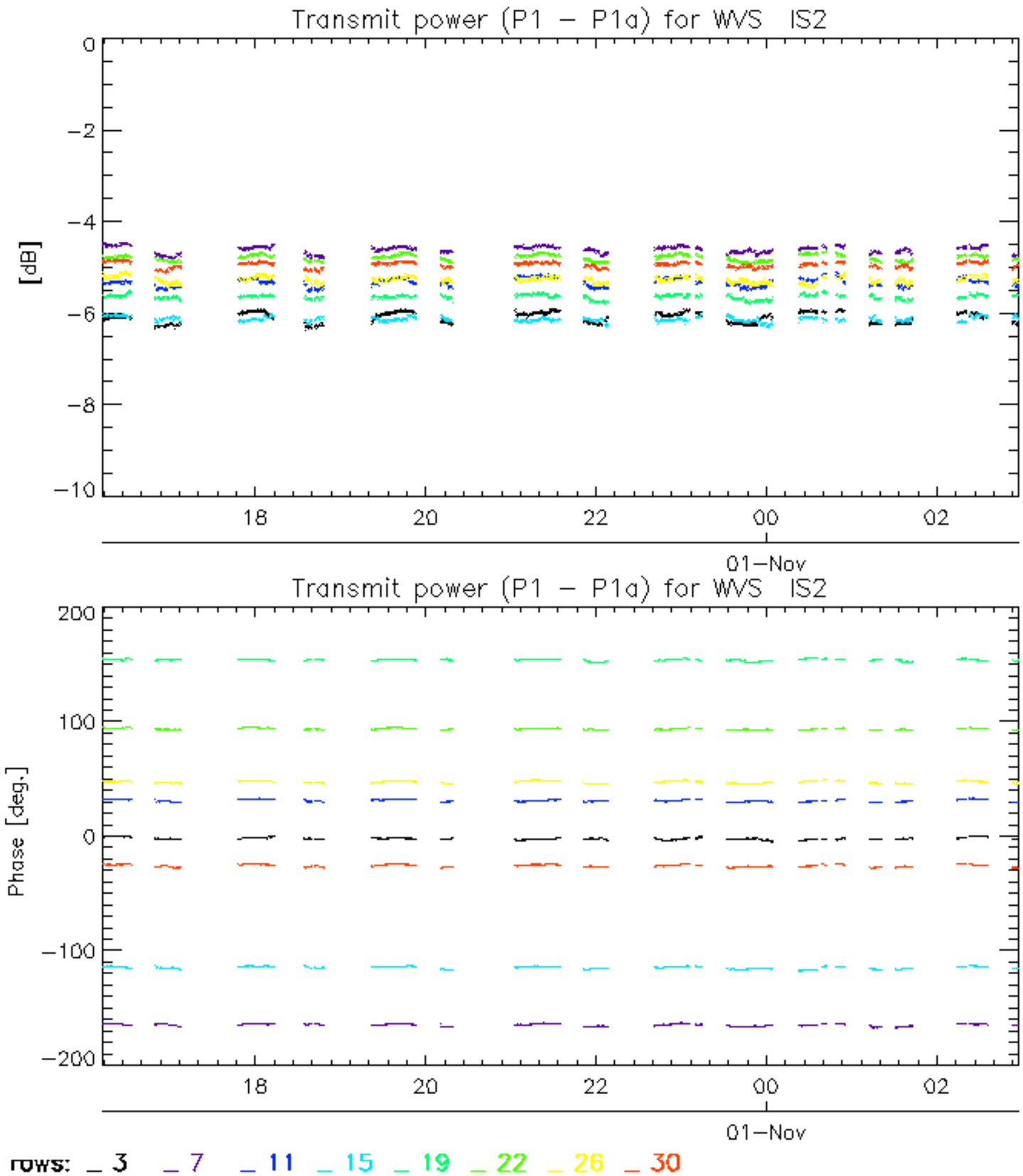

Reference: 2005-09-29 07:47:20 V
Test : 2006-10-30 08:41:56 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
9
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
01–Nov
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
01–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
27
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
18
20
22
00
02
01–Nov
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
20
22
00
02
01–Nov
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.