PRELIMINARY REPORT OF 051023

last update on Sun Oct 23 16:44:11 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 2005-10-22 00:00:00 to 2005-10-23 16:44:11

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

ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	39	64	16	2	19
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	39	64	16	2	19
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	39	64	16	2	19
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	39	64	16	2	19

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	33	55	33	15	63
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	33	55	33	15	63
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	33	55	33	15	63
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	33	55	33	15	63

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	20051022 204910
H	20051021 143823

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
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☒

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	-3.532788	0.009014	0.030687
7	P1	-2.894385	0.010277	-0.072267
11	P1	-4.066293	0.016211	-0.091918
15	P1	-6.026402	0.015372	-0.051856
19	P1	-3.155836	0.005629	-0.042612
22	P1	-4.446437	0.013122	-0.065012
26	P1	-4.274557	0.015287	0.035575
30	P1	-5.705741	0.008707	-0.051662
3	P1	-15.402843	0.184413	0.222237
7	P1	-16.265553	0.109009	-0.135603
11	P1	-16.208635	0.280403	-0.290712
15	P1	-13.341825	0.104034	-0.048618
19	P1	-13.612946	0.038973	-0.139934
22	P1	-16.123852	0.487615	-0.258627
26	P1	-16.169386	0.240373	0.328292
30	P1	-16.395300	0.173489	-0.155770

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.866304	0.098515	0.004133
7	P2	-22.699968	0.105290	0.073830
11	P2	-16.752863	0.114788	0.137225
15	P2	-7.217782	0.101198	-0.055444
19	P2	-9.171448	0.092852	-0.053961
22	P2	-17.719908	0.099350	-0.122864
26	P2	-16.095629	0.094010	-0.116182
30	P2	-19.622822	0.090340	-0.021119

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.188906	0.005613	-0.042460
7	P3	-8.188906	0.005613	-0.042460
11	P3	-8.188906	0.005613	-0.042460
15	P3	-8.188906	0.005613	-0.042460
19	P3	-8.188906	0.005613	-0.042460
22	P3	-8.188906	0.005613	-0.042460
26	P3	-8.188906	0.005613	-0.042460
30	P3	-8.188906	0.005613	-0.042460

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	-3.660569	0.007114	-0.022568
7	P1	-2.829161	0.011957	0.067989
11	P1	-2.850968	0.013115	-0.003516
15	P1	-3.386415	0.018090	0.012456
19	P1	-3.350302	0.010501	-0.024850
22	P1	-5.144276	0.019509	0.034856
26	P1	-5.778875	0.017738	-0.059385
30	P1	-5.212912	0.026210	-0.027404
3	P1	-11.401833	0.031770	-0.024118
7	P1	-9.917896	0.040331	0.006414
11	P1	-10.011703	0.057604	-0.028039
15	P1	-10.577465	0.094846	0.050107
19	P1	-15.462109	0.068291	-0.061400
22	P1	-20.461456	1.194670	-0.222550
26	P1	-17.094732	0.392357	-0.161730
30	P1	-18.786936	0.389264	0.534890

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.705608	0.038418	0.020990
7	P2	-23.051100	0.091342	-0.064802
11	P2	-11.750270	0.027526	0.021632
15	P2	-4.891575	0.037323	-0.079207
19	P2	-6.897830	0.026471	-0.047798
22	P2	-8.107706	0.024744	-0.071123
26	P2	-23.860973	0.038509	-0.114978
30	P2	-22.058723	0.026944	-0.040878

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.032769	0.002827	-0.042661
7	P3	-8.032825	0.002835	-0.042694
11	P3	-8.032769	0.002836	-0.043137
15	P3	-8.032796	0.002835	-0.043142
19	P3	-8.032893	0.002842	-0.042884
22	P3	-8.032705	0.002848	-0.043037
26	P3	-8.032982	0.002847	-0.042768
30	P3	-8.032836	0.002845	-0.043032

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

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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	0.000558196
	stdev	1.71951e-07
MEAN Q	mean	0.000537307
	stdev	2.16940e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.137590
	stdev	0.00113054
STDEV Q	mean	0.137935
	stdev	0.00114704

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005102[123]
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_1PNPDK20051021_083359_000000382041_00451_19042_5963.N1	0	25
ASA_GM1_1PNPDK20051021_102639_000006642041_00452_19043_9092.N1	0	13
ASA_WSM_1PNPDE20051021_183647_000002932041_00457_19048_5308.N1	0	70
ASA_WSM_1PNPDE20051022_010806_000002192041_00460_19051_5377.N1	0	123
ASA_WSM_1PNPDE20051022_022829_000000422041_00461_19052_5382.N1	0	120
ASA_WSM_1PNPDE20051022_162409_000000922041_00470_19061_5477.N1	0	44
ASA_WSM_1PNPDE20051022_180625_000001292041_00471_19062_5521.N1	0	70
ASA_WSM_1PNPDE20051022_230541_000000672041_00474_19065_5561.N1	0	3

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

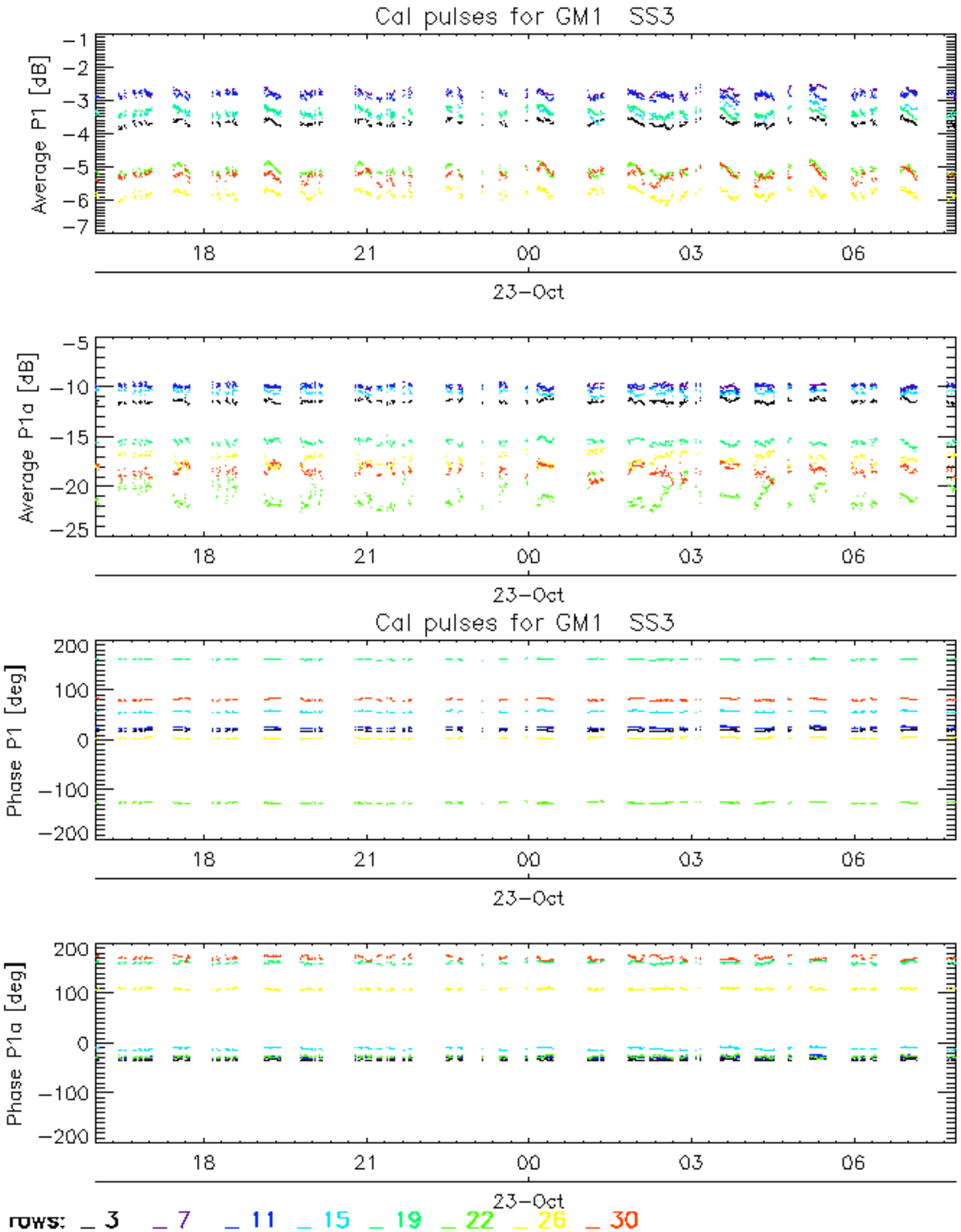
Evolution of Absolute Doppler

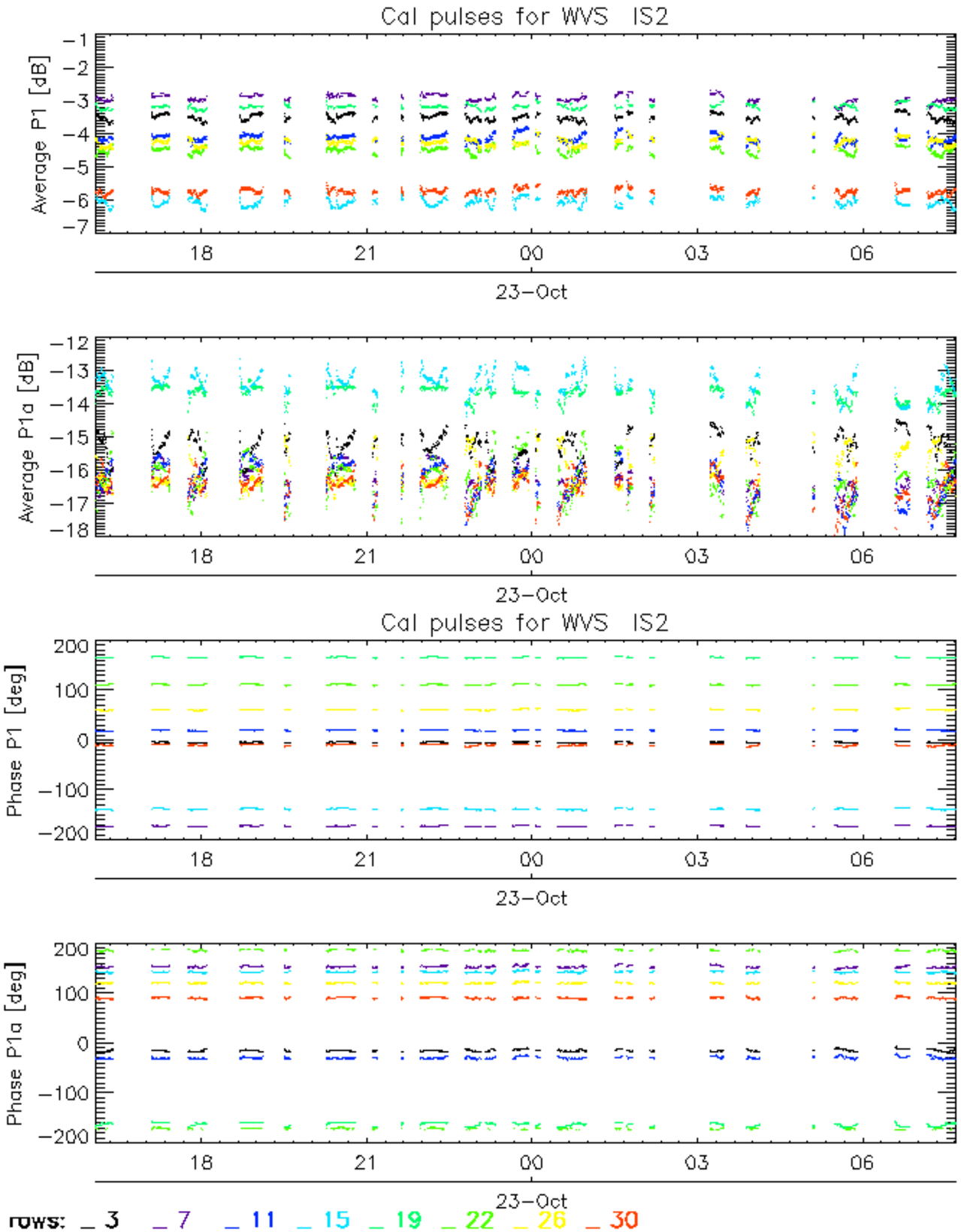
Acsending

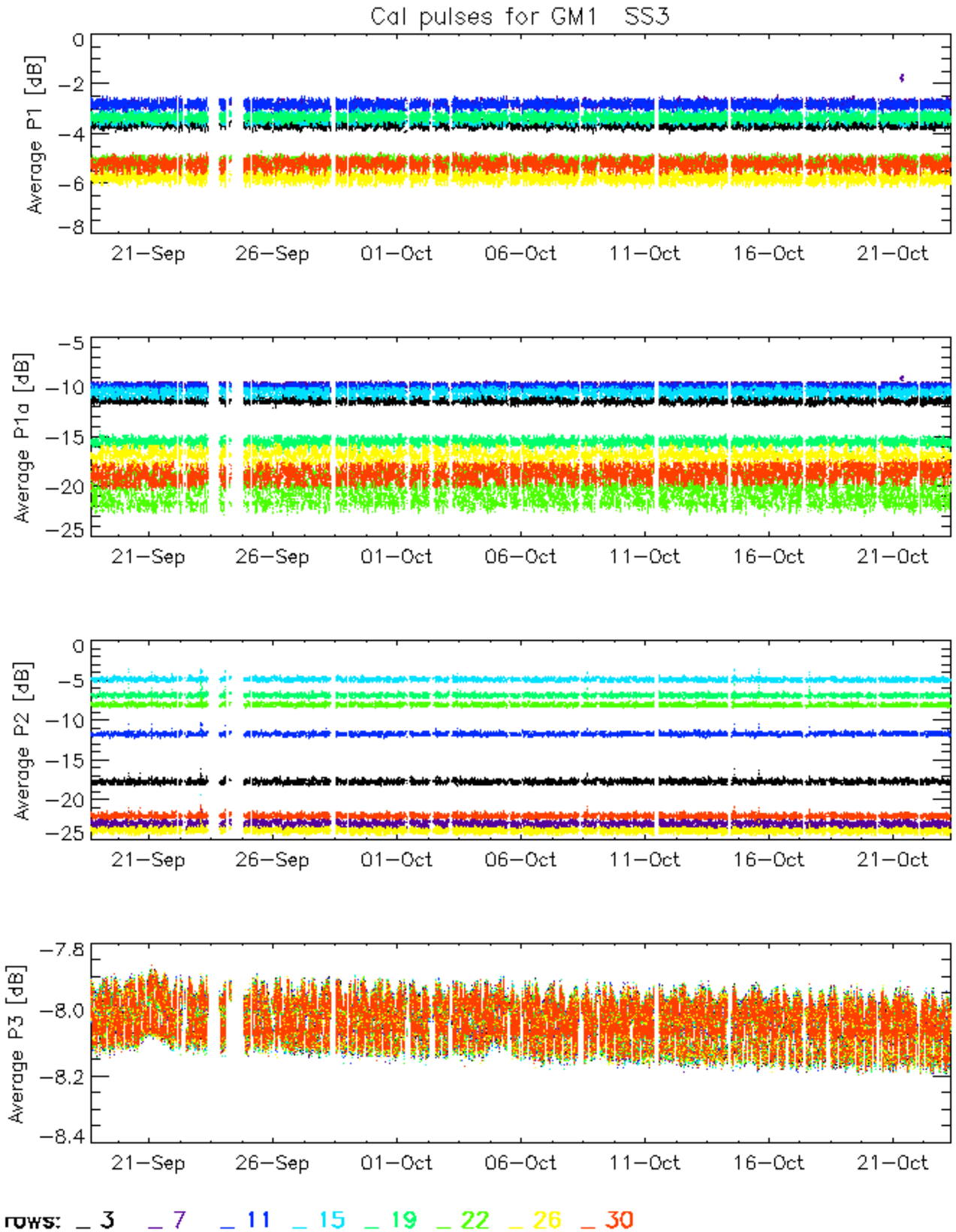
Descending

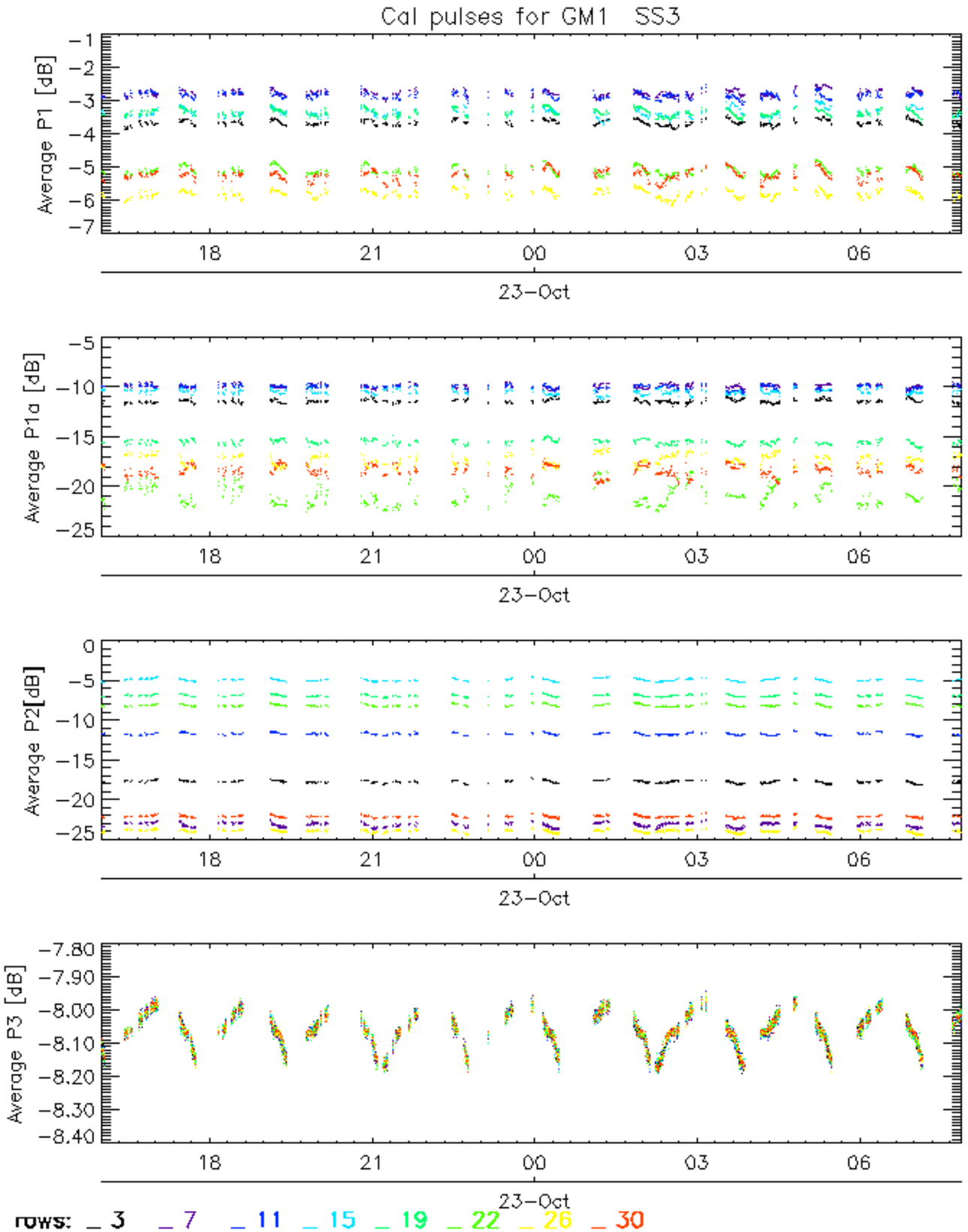
7.6 - Doppler evolution versus ANX for GM1

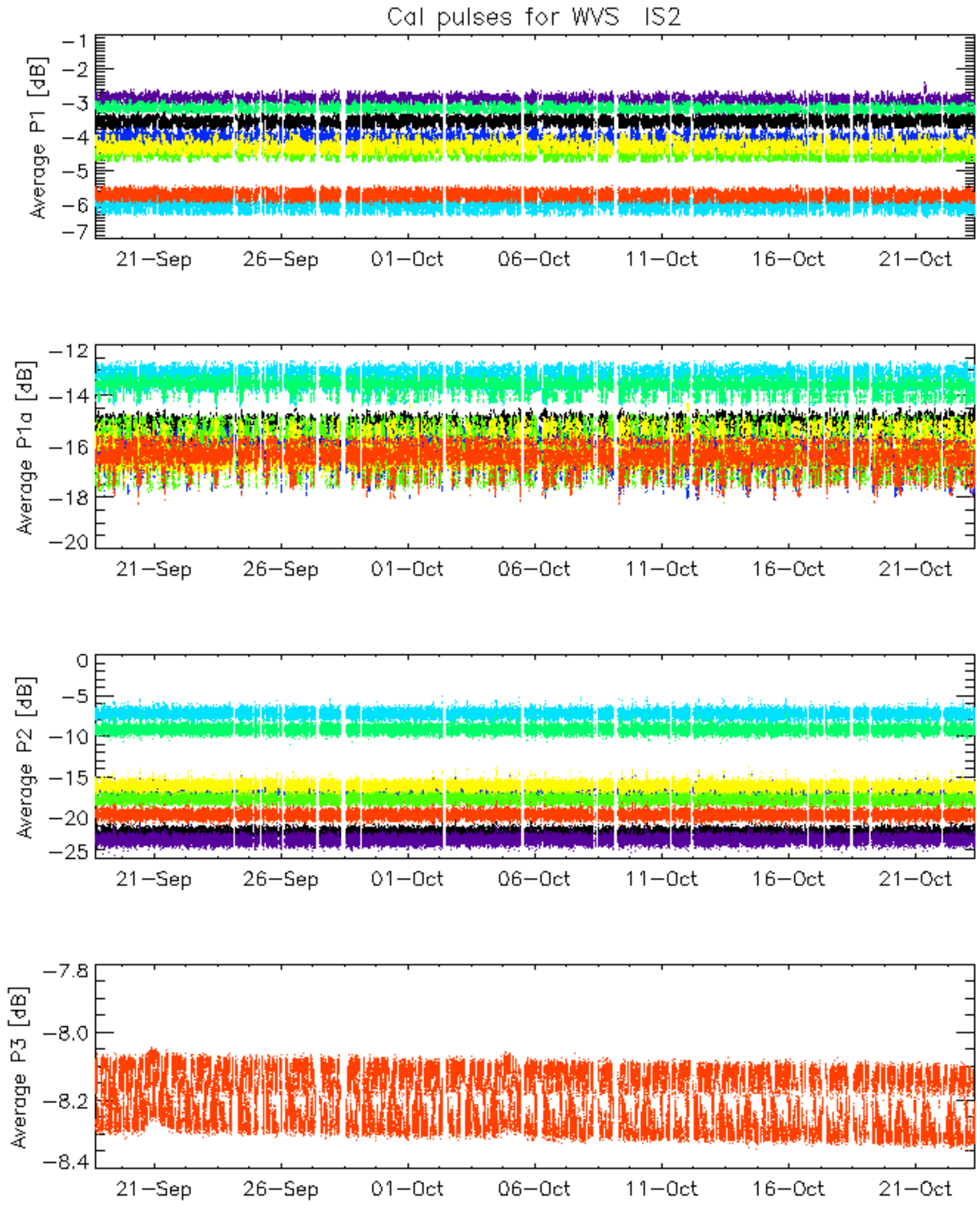
Evolution Doppler error versus ANX

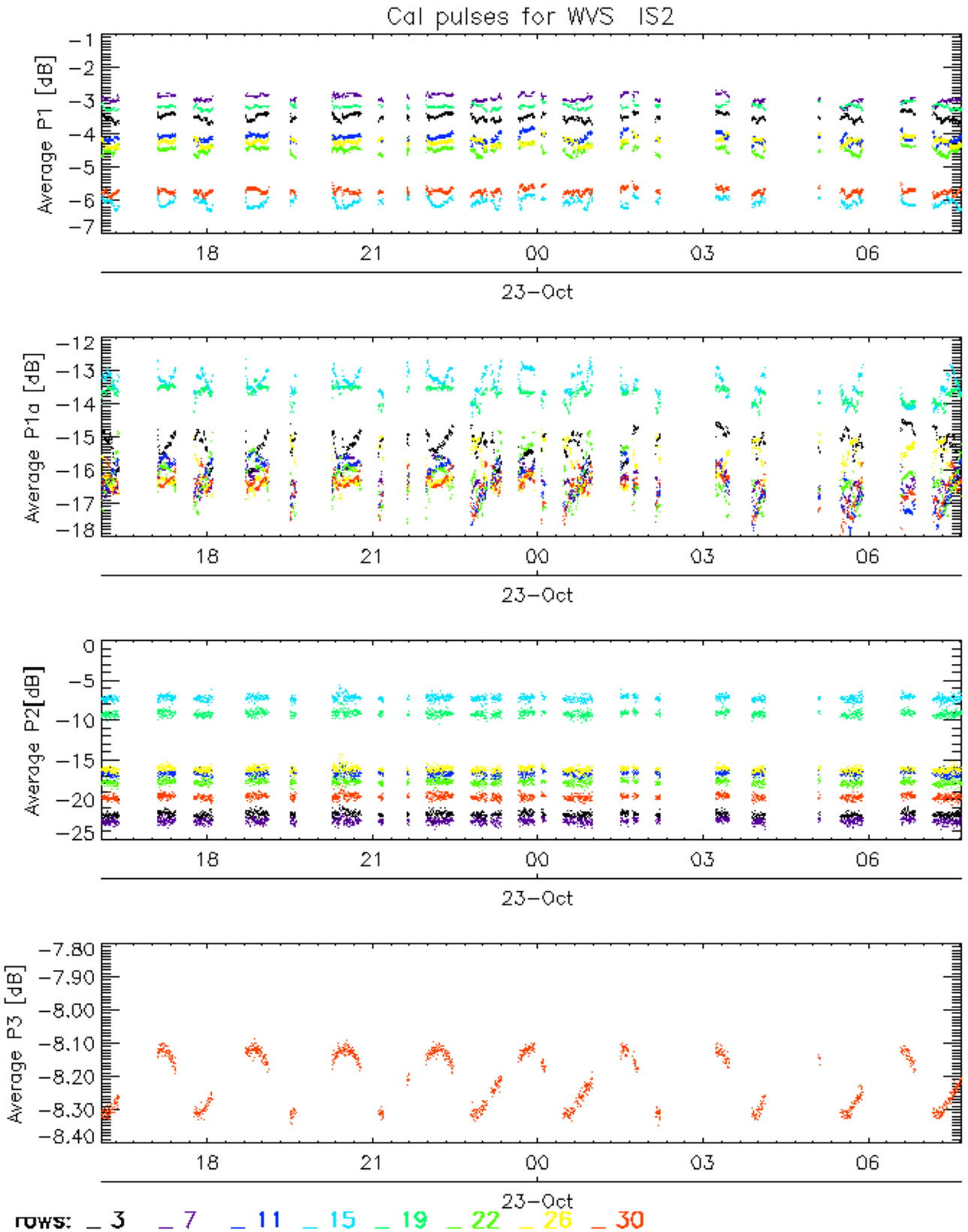


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
23−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
23−Oct
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
23−Oct
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
23−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
23−Oct
Average P1a [dB]
−12
−13
−14
−15
−16
−17
−18
18
21
00
03
06
23−Oct
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
23−Oct
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
23−Oct
rows: 3 7 11 15 19 22 26 30

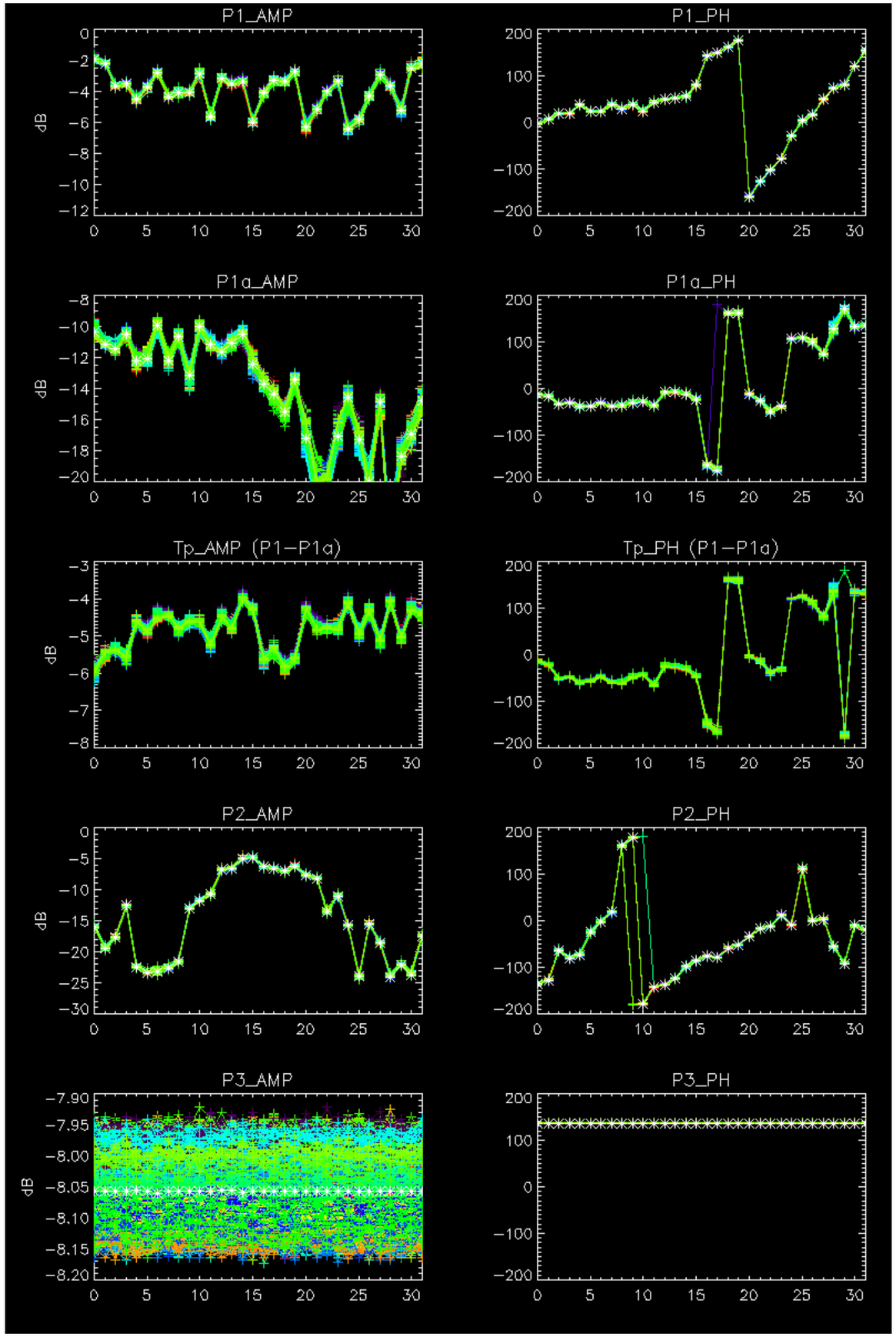

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

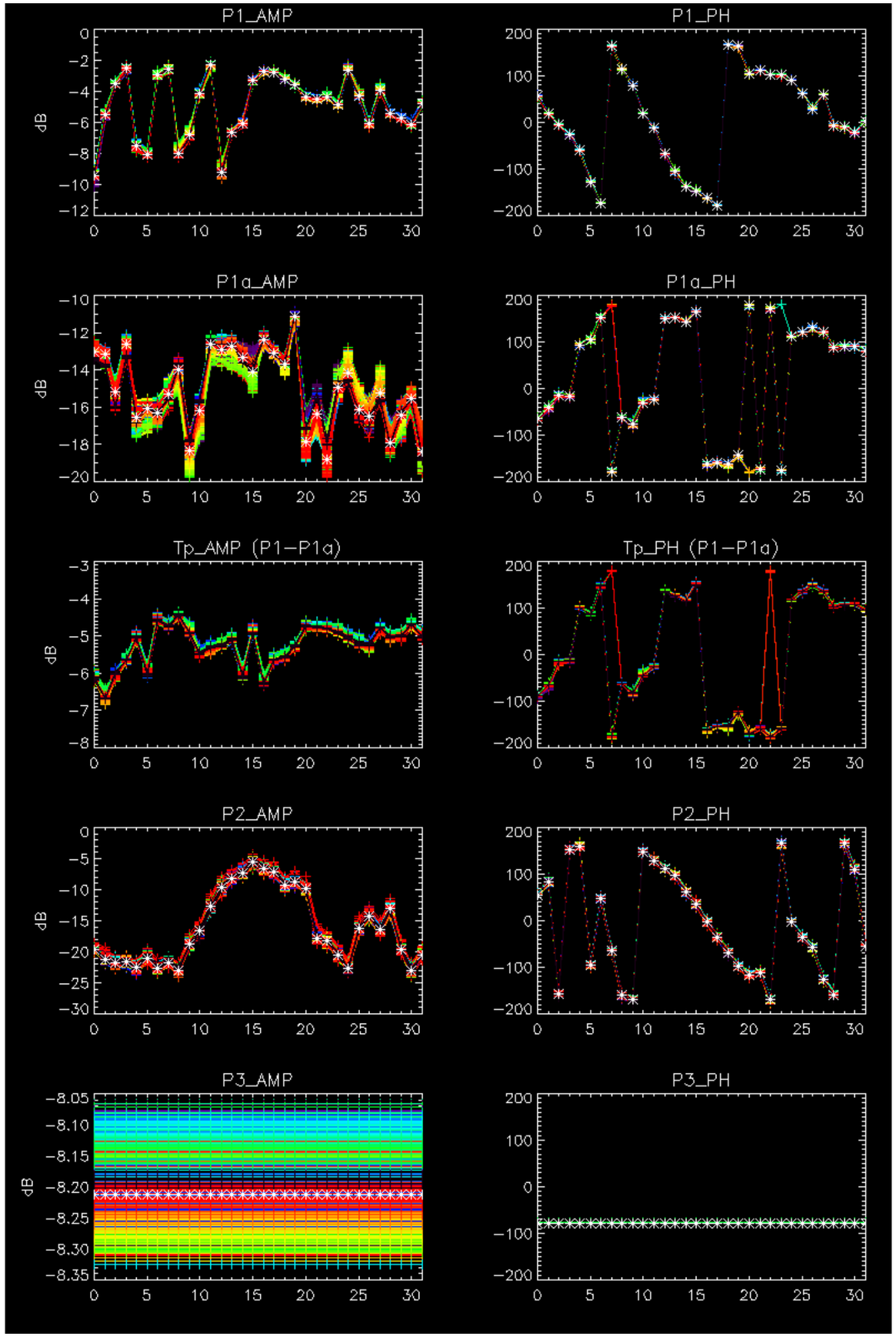

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
23−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
23−Oct
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
23−Oct
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
23−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct
Average P1a [dB]
−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
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
21
00
03
06
23−Oct
Average P1a [dB]
−12
−13
−14
−15
−16
−17
−18
18
21
00
03
06
23−Oct
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
23−Oct
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
23−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

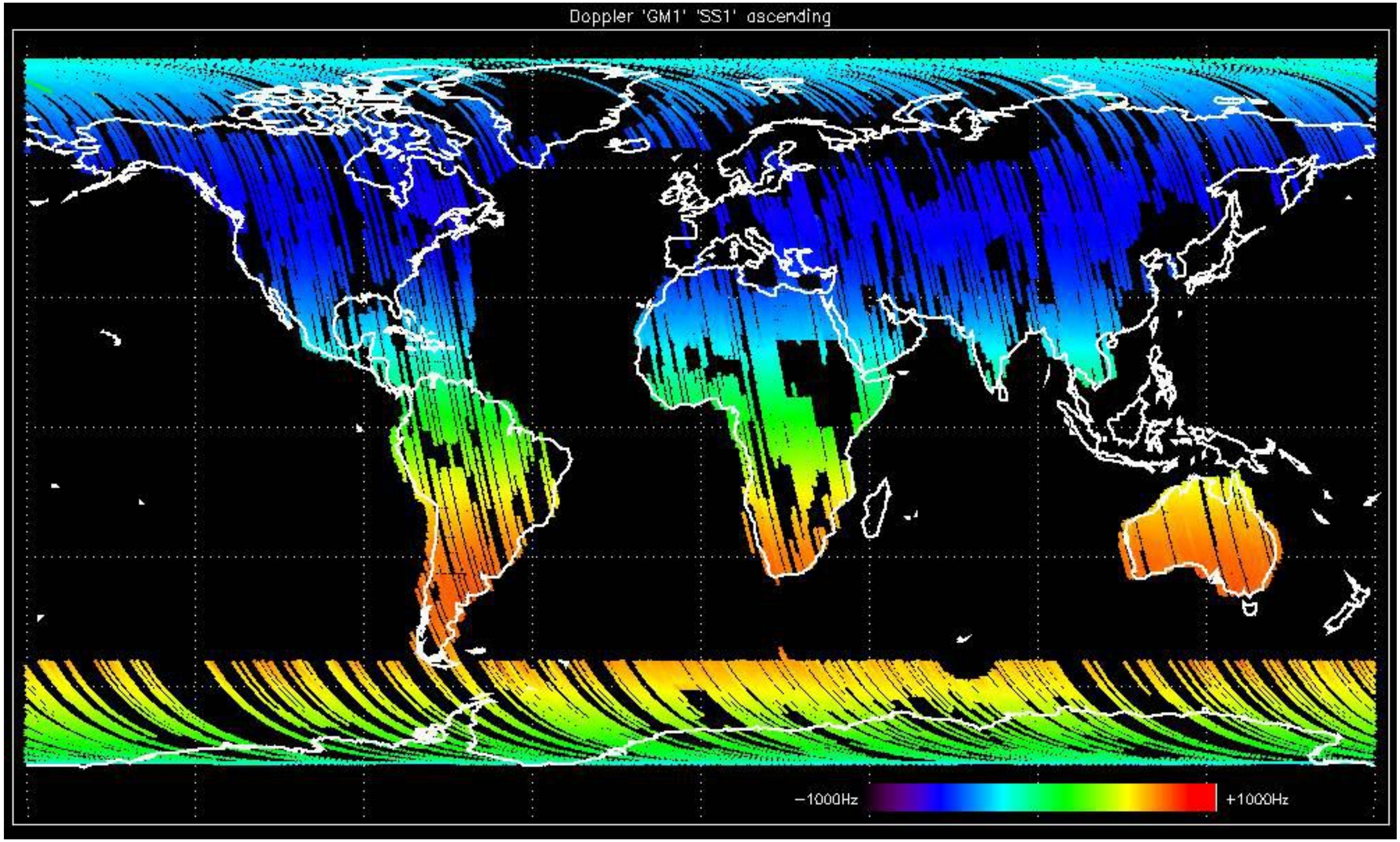
No anomalies observed.

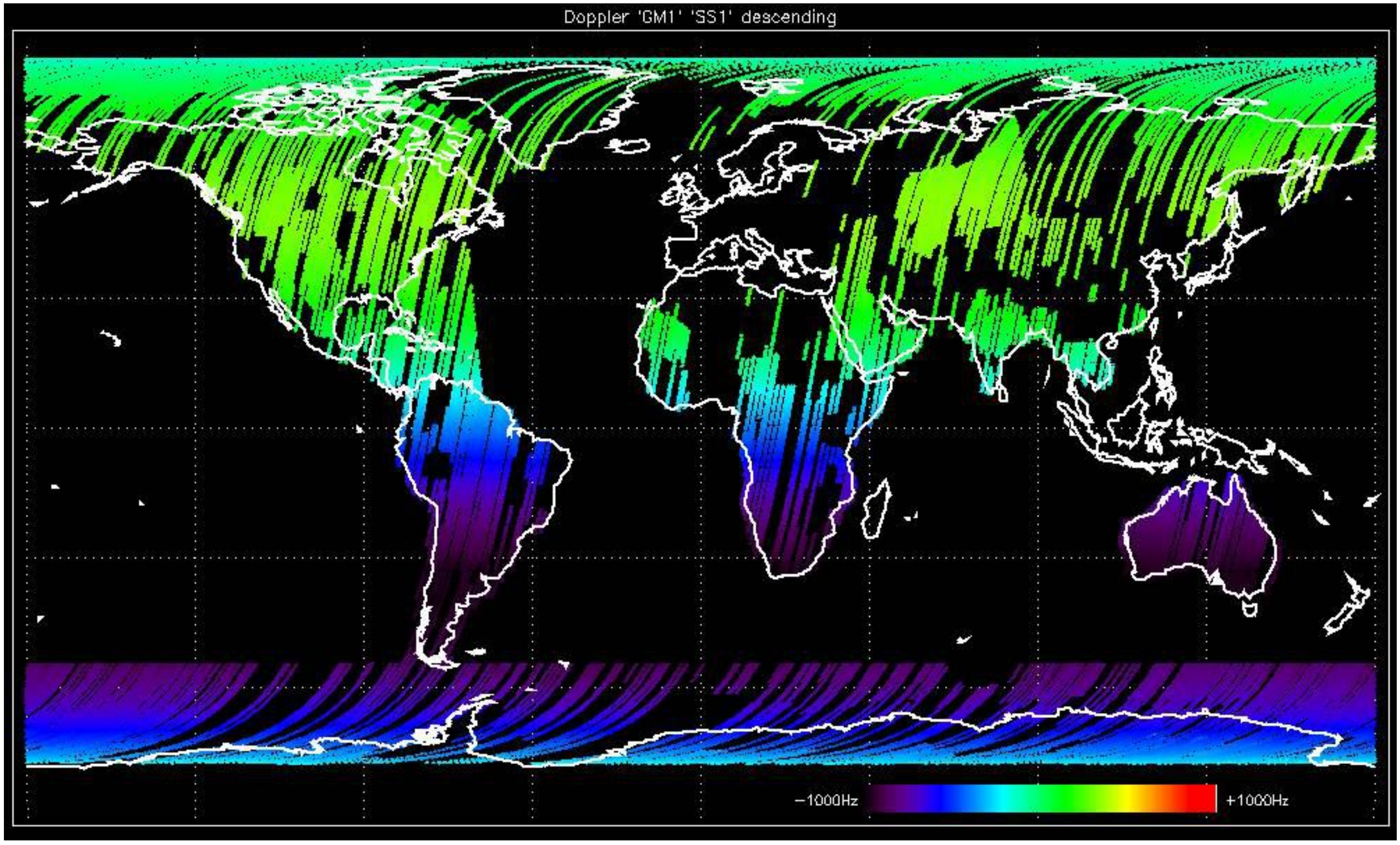

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

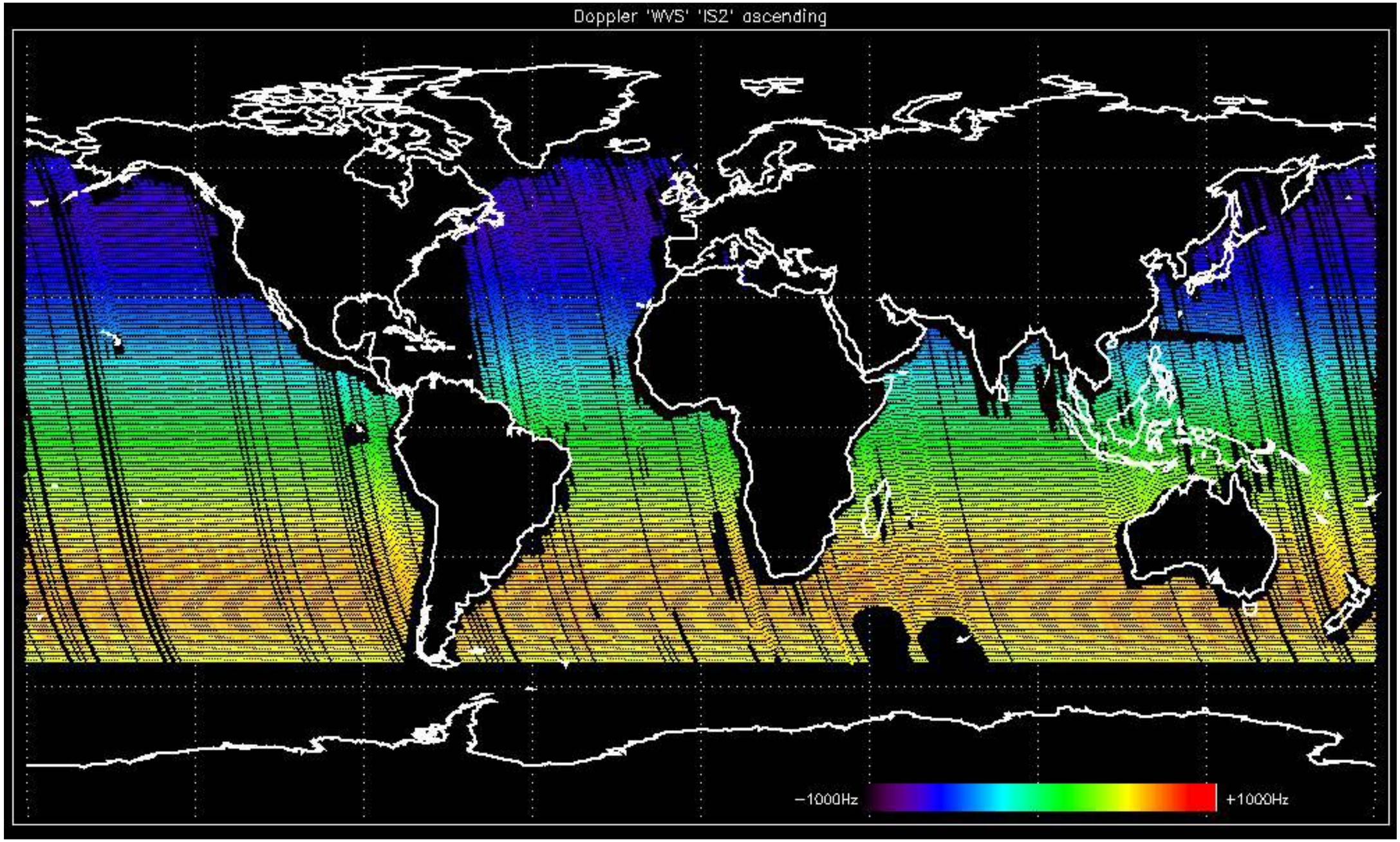

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

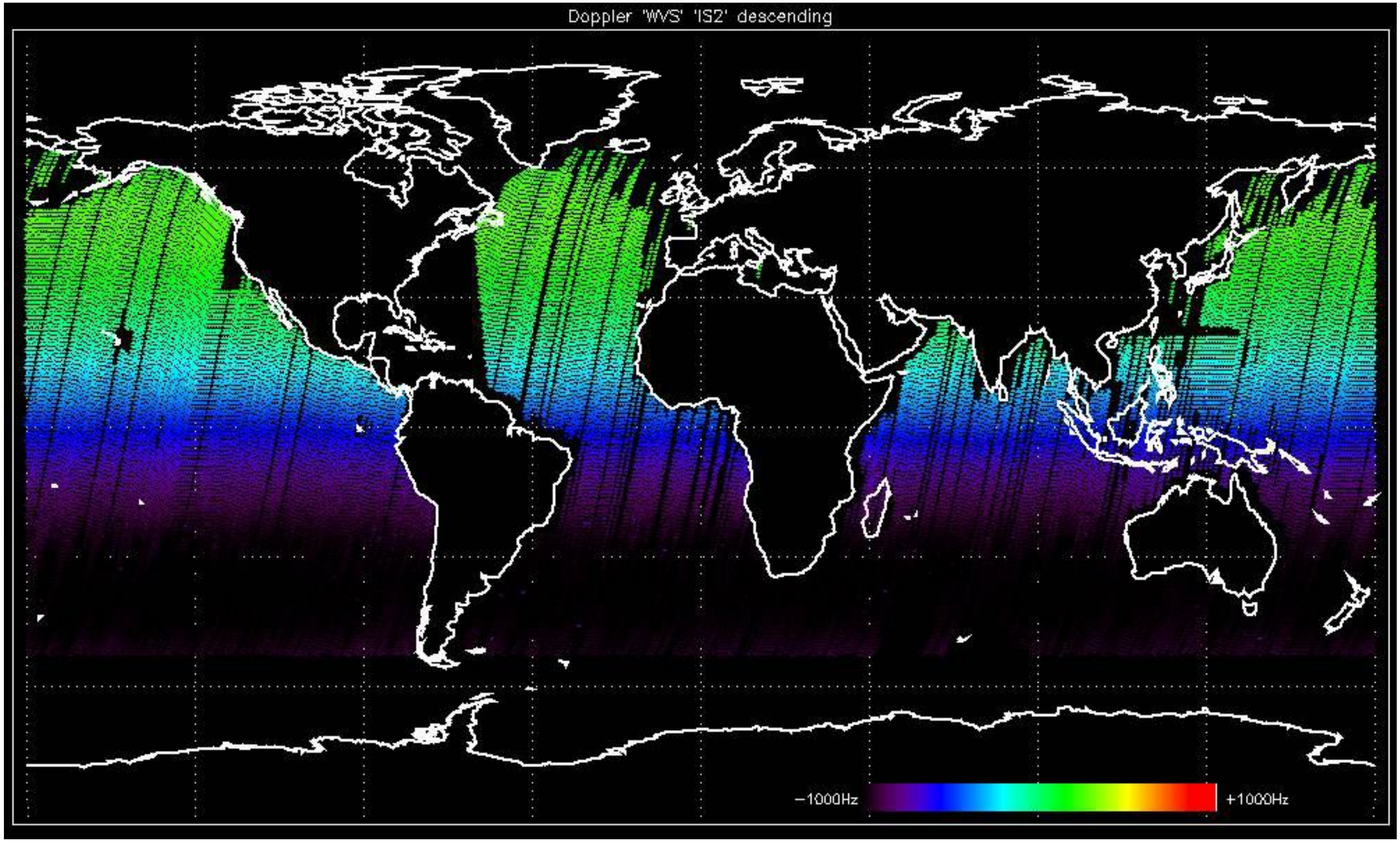
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

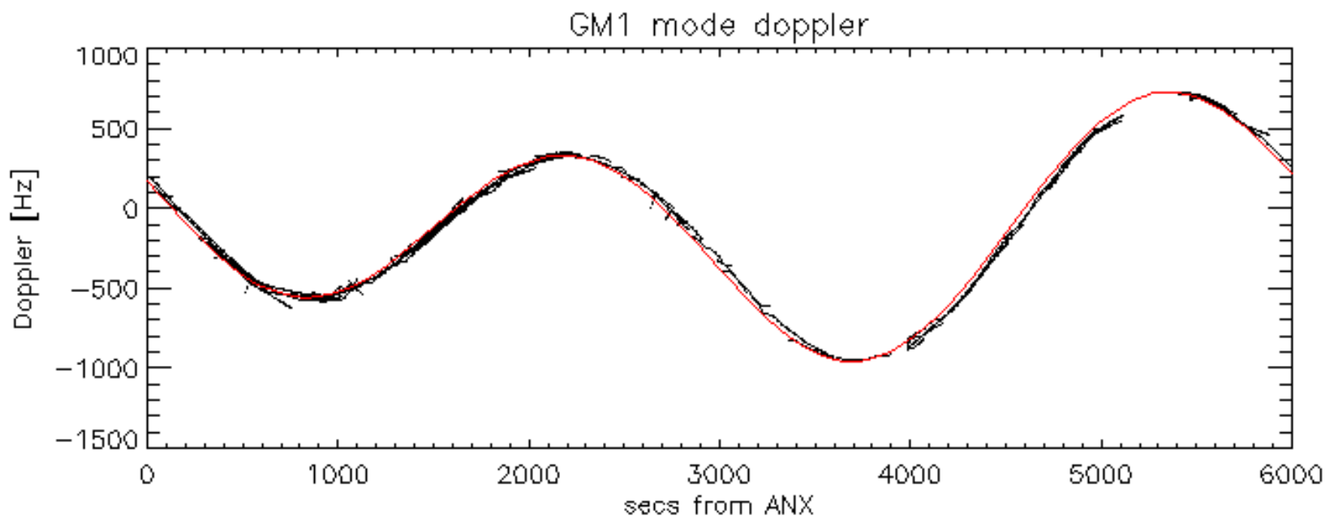
Preliminary report.The data is not yet controled

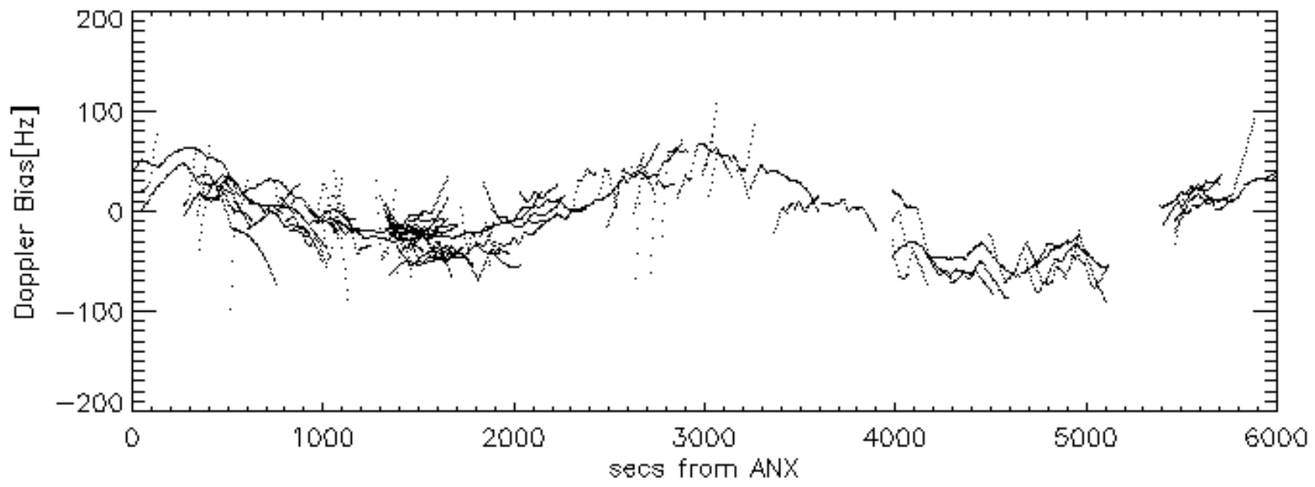

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

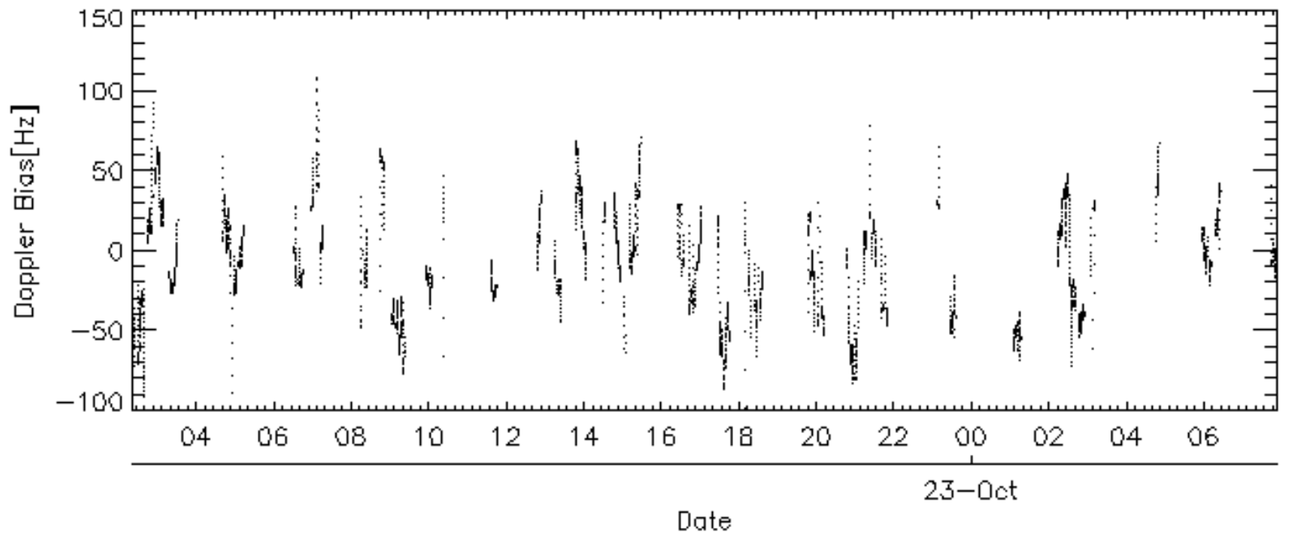

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

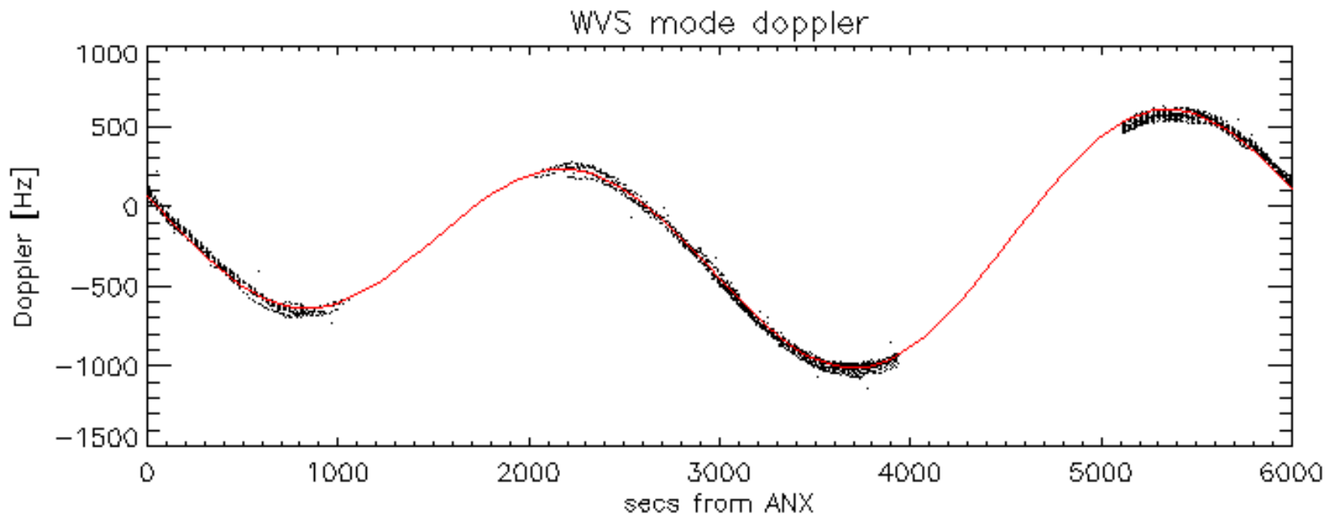

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

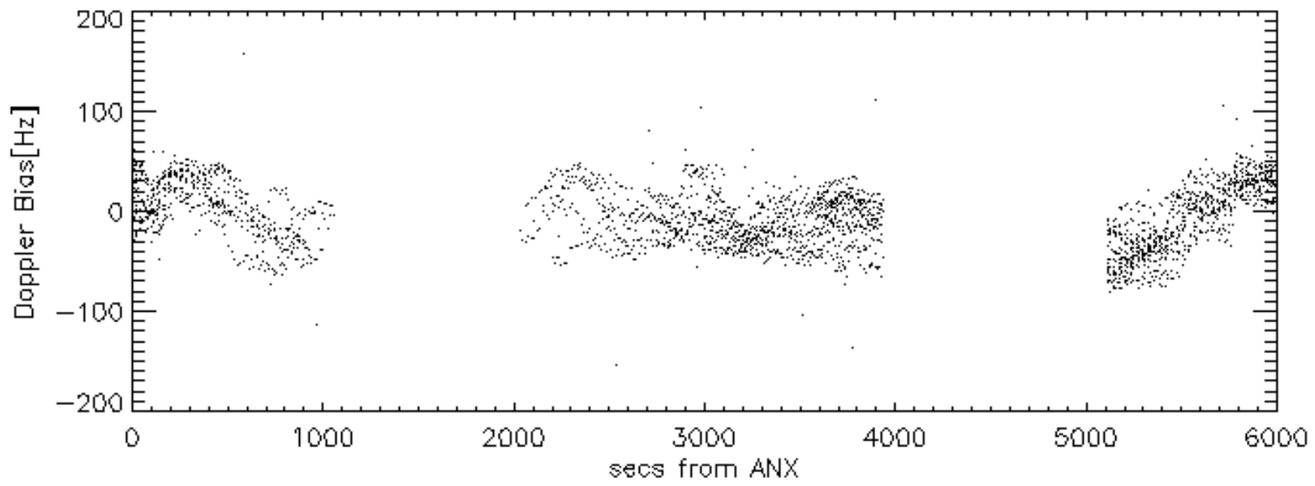

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

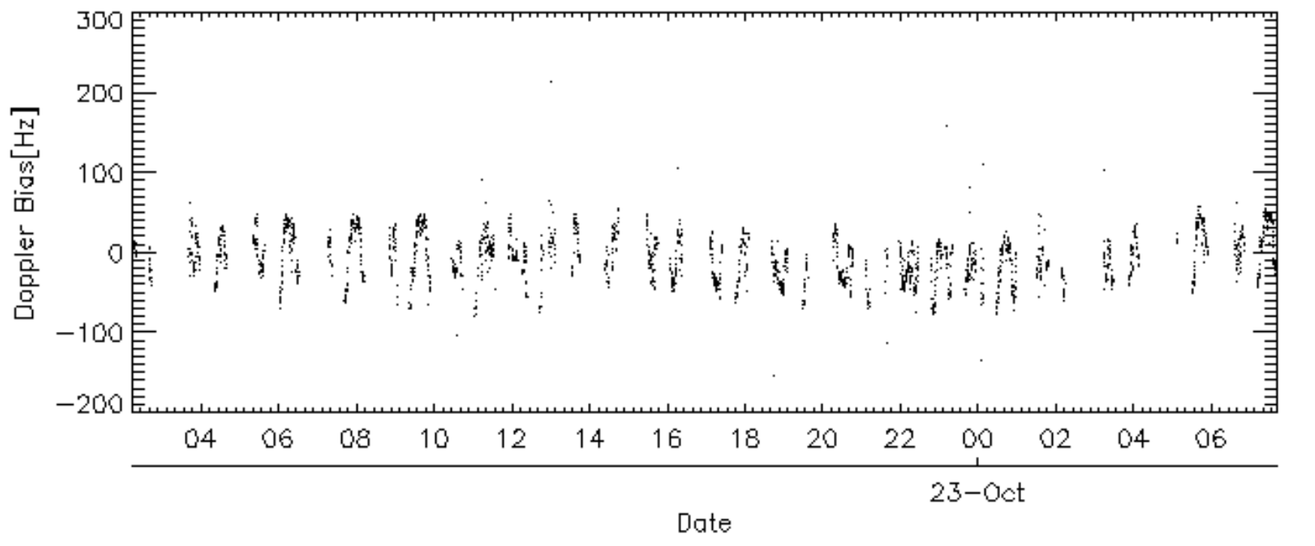

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

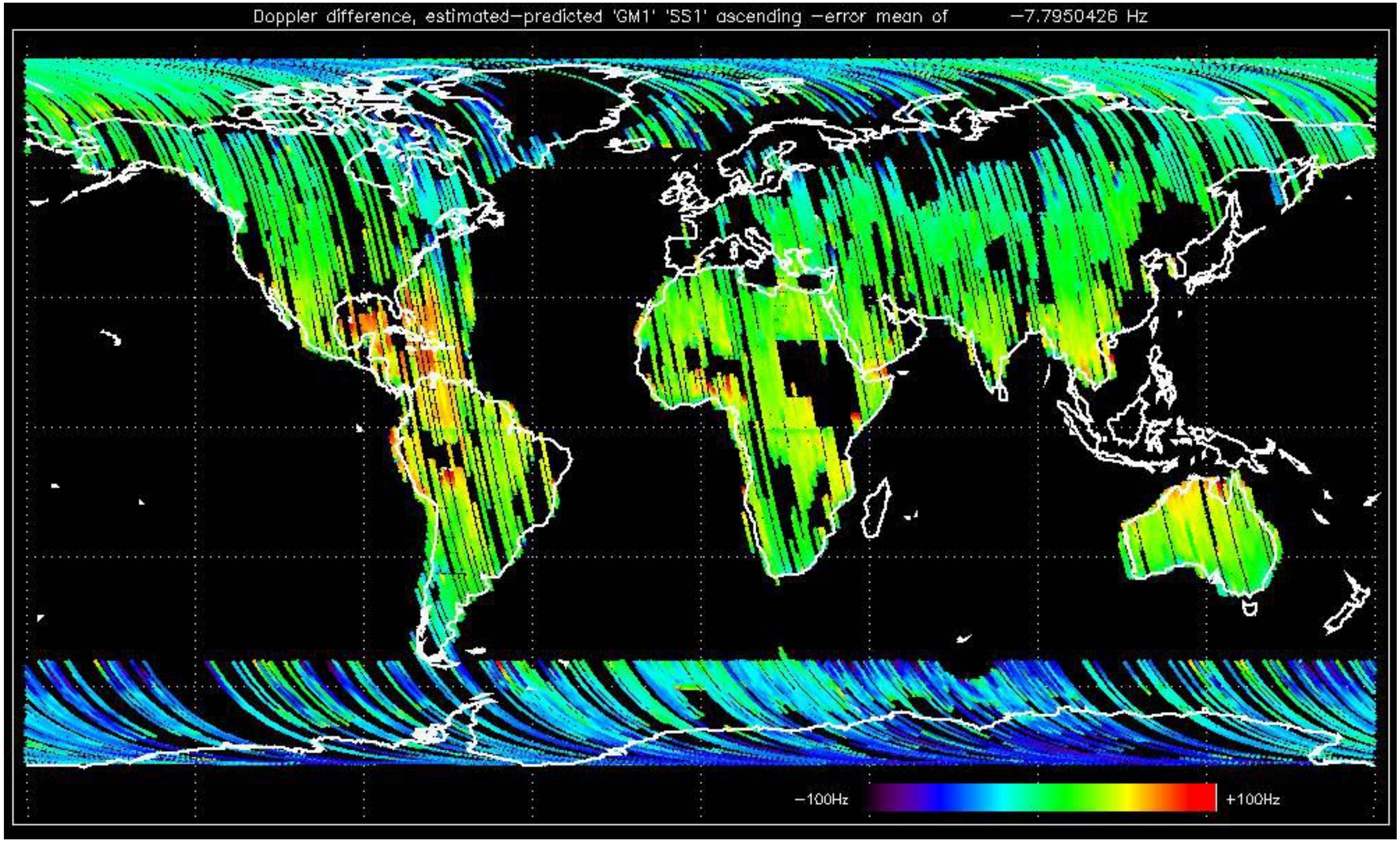

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

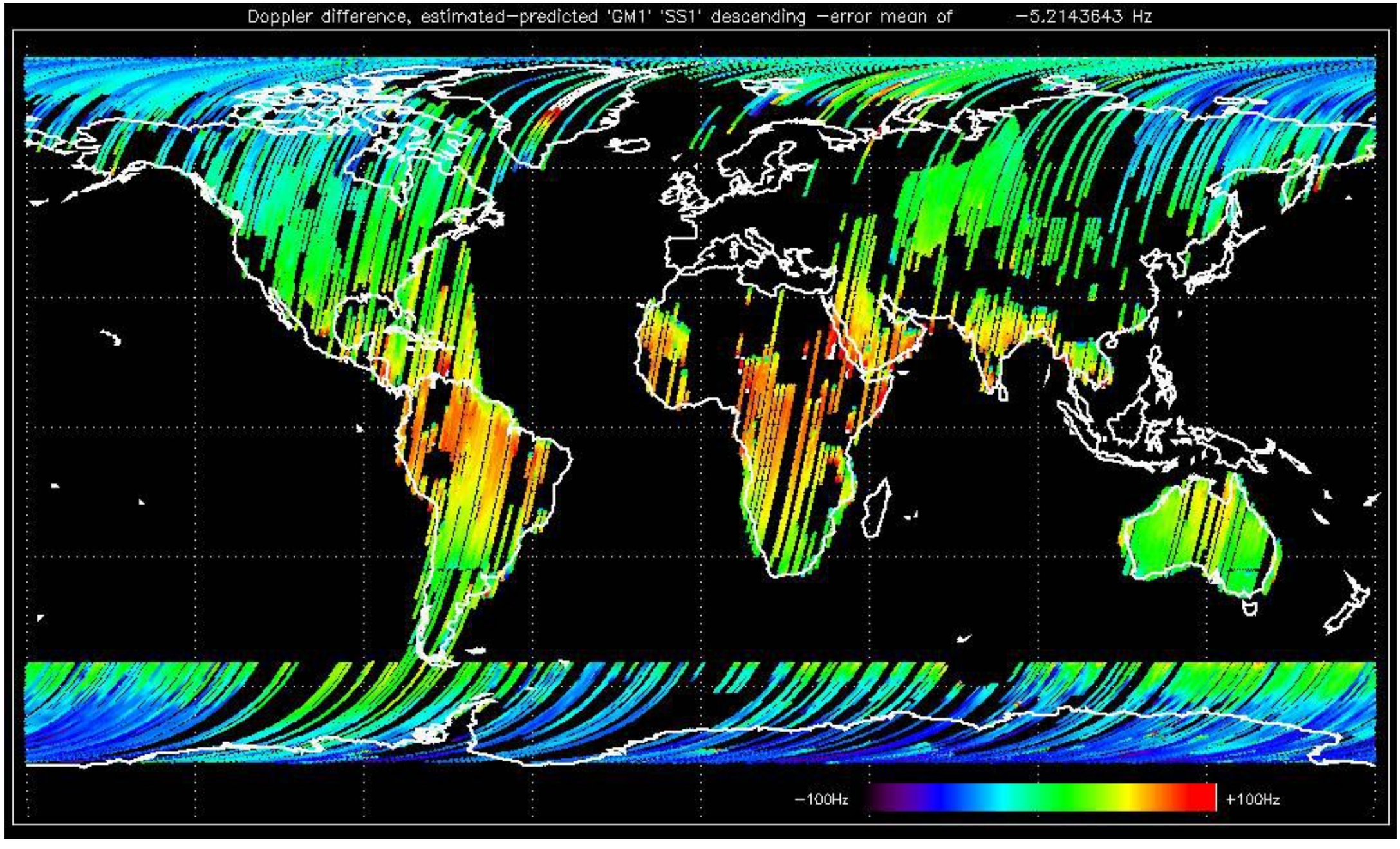

Doppler Bias[Hz]
150
100
50
0
−50
−100
04
06
08
10
12
14
16
18
20
22
00
02
04
06
23−Oct
Date

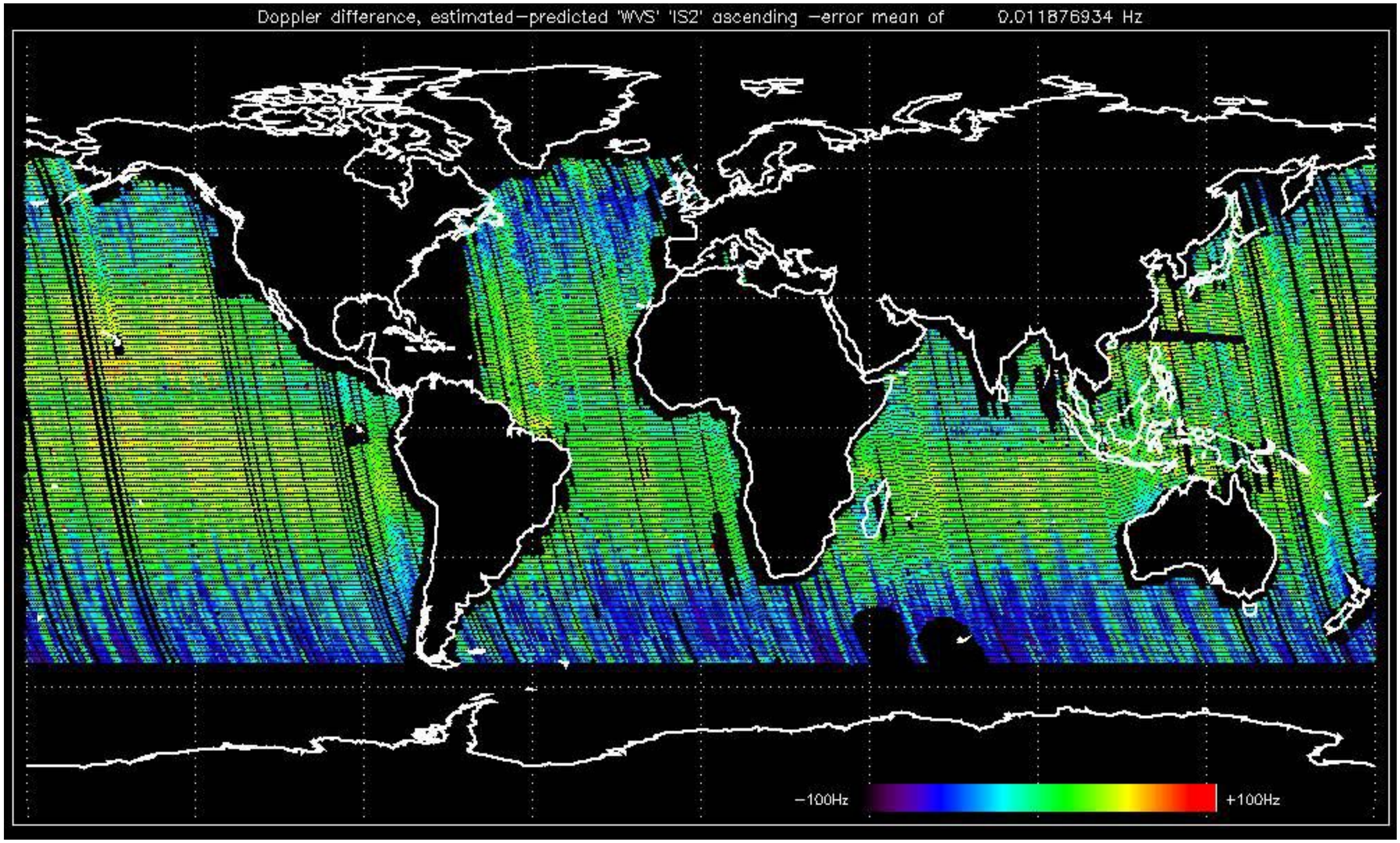

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

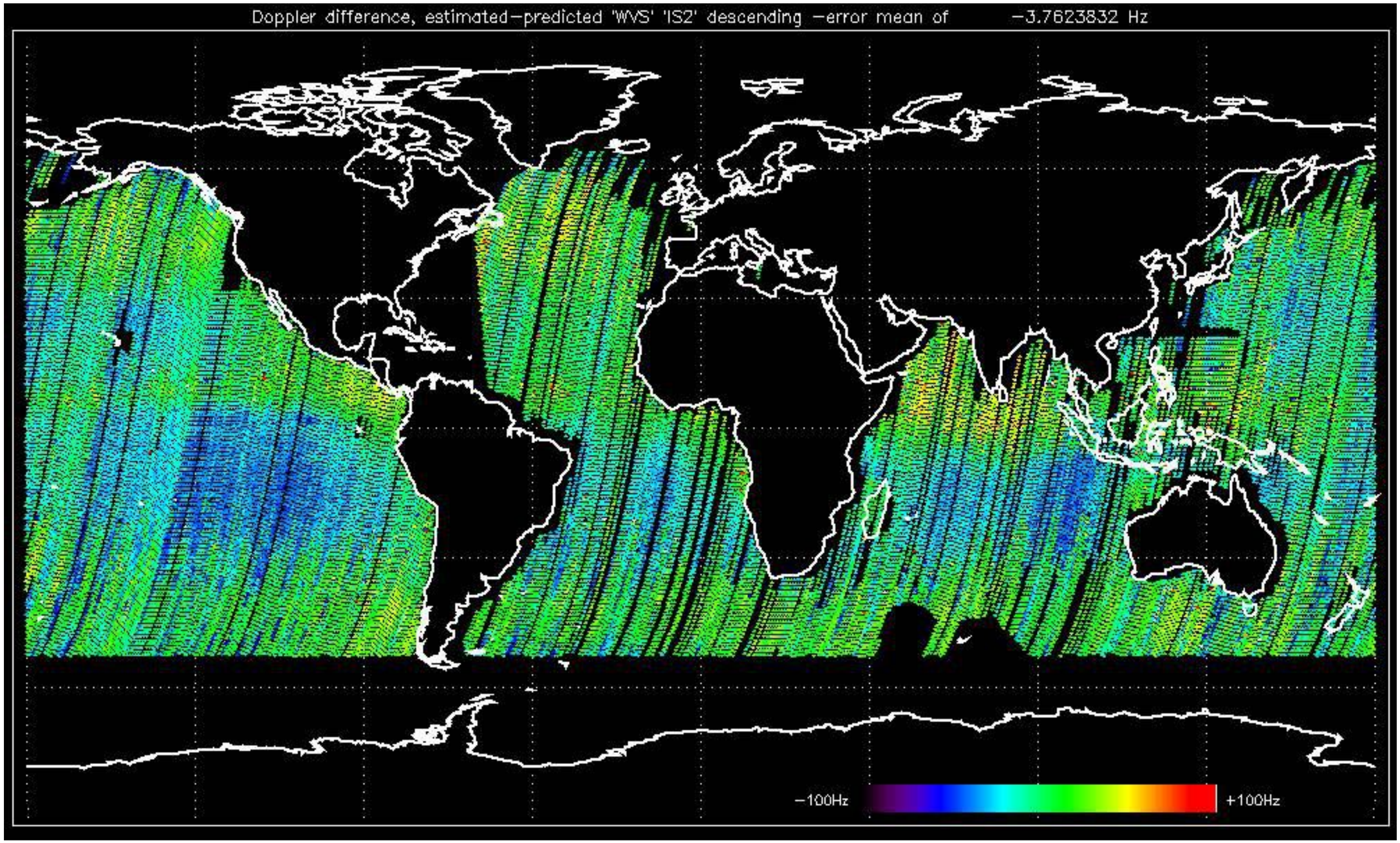

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −7.7950426 Hz
−100Hz
+100Hz

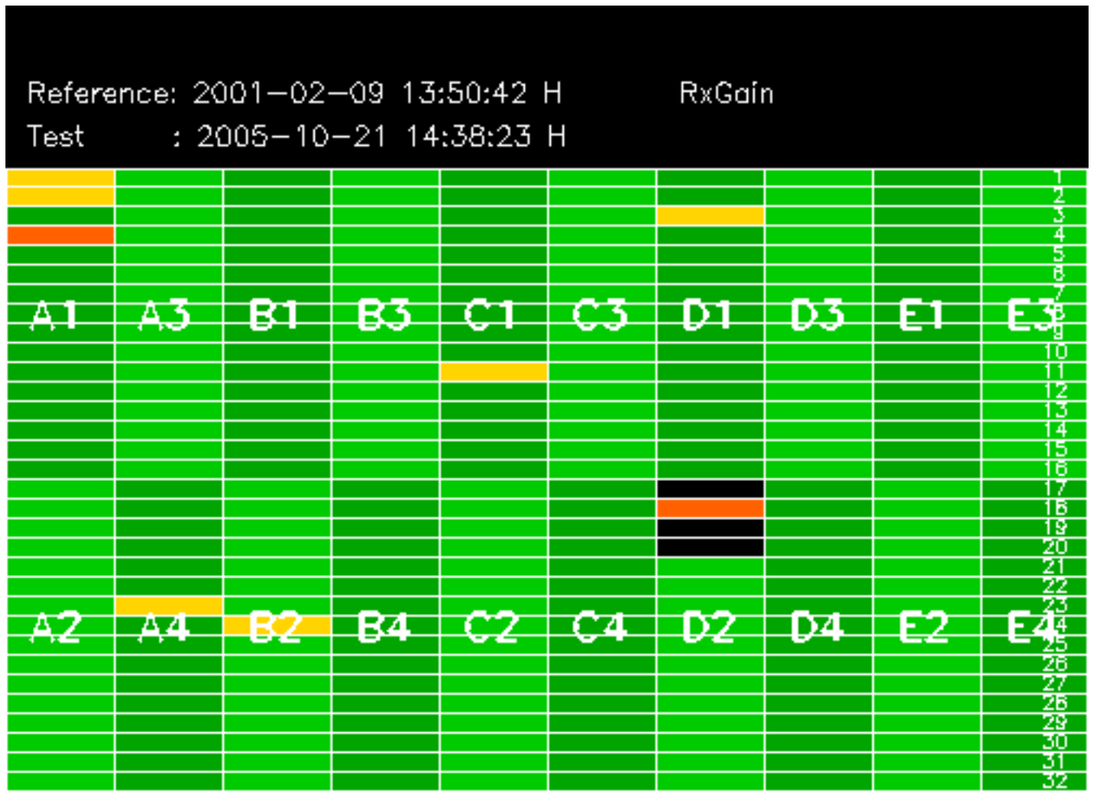

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −5.2143643 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of 0.011876934 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −3.7623832 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2005-10-21 14:38:23 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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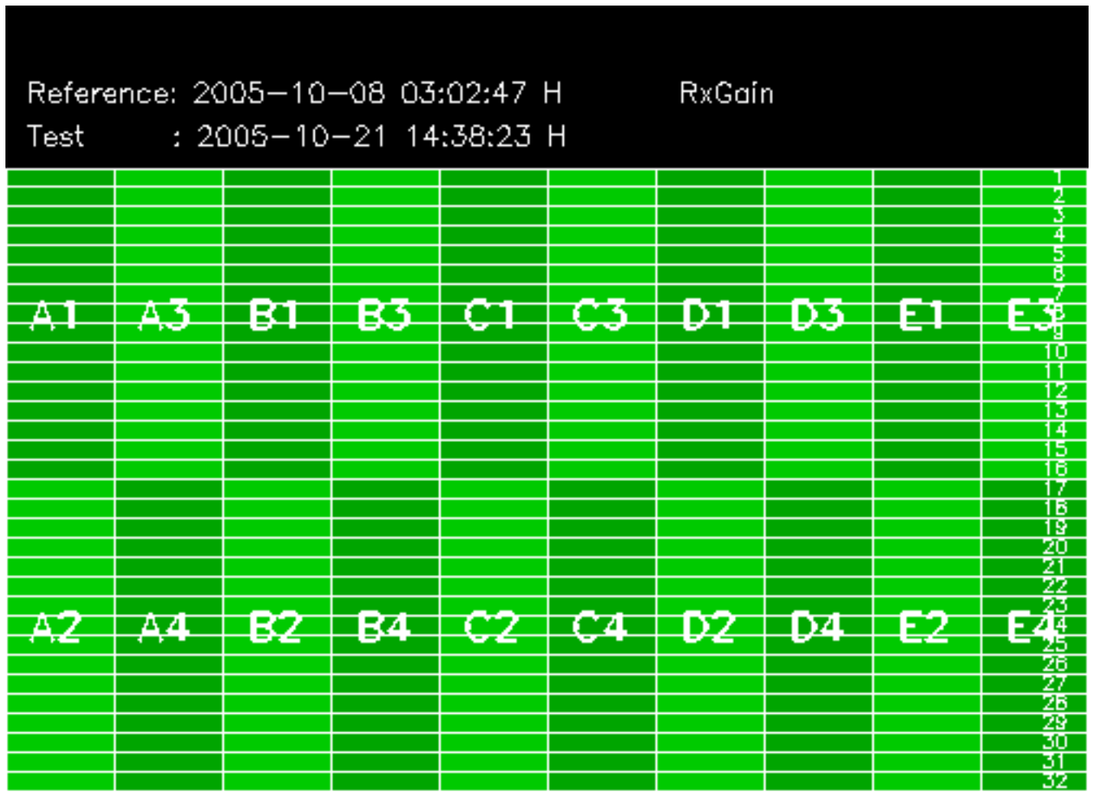
Reference: 2005-10-08 03:02:47 H
RxGain
Test : 2005-10-21 14:38:23 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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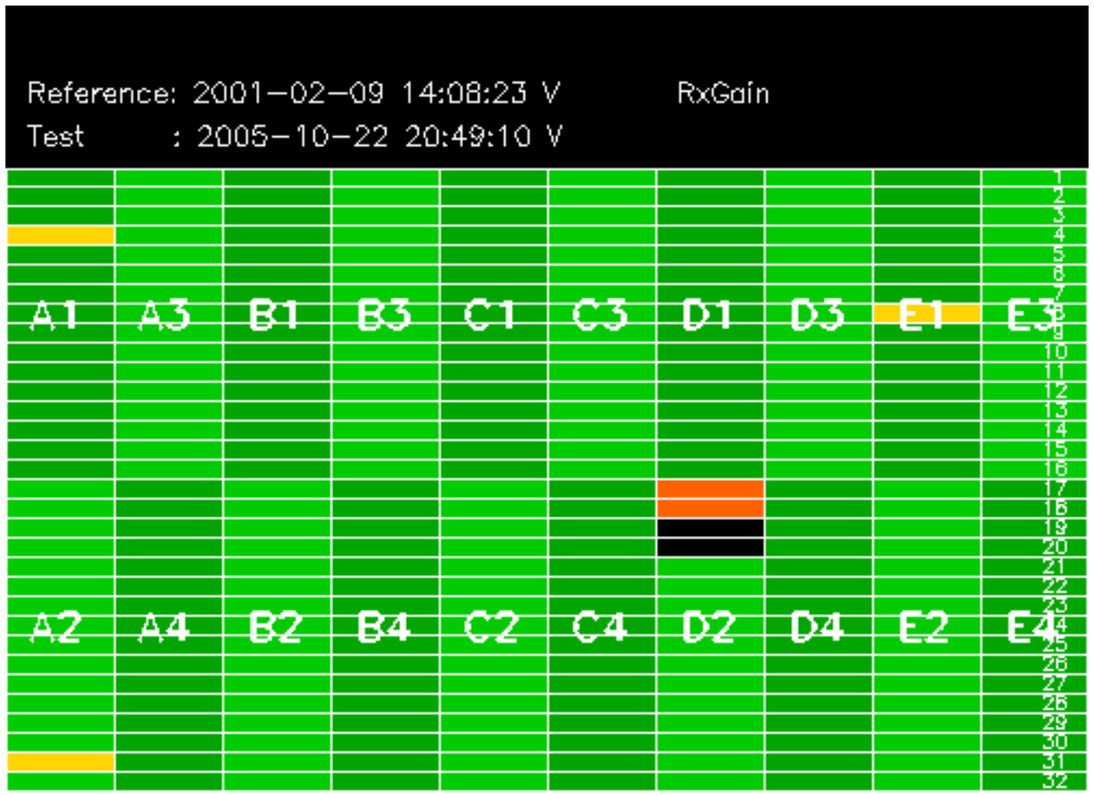
Reference: 2001-02-09 14:08:23 V
Test : 2005-10-22 20:49:10 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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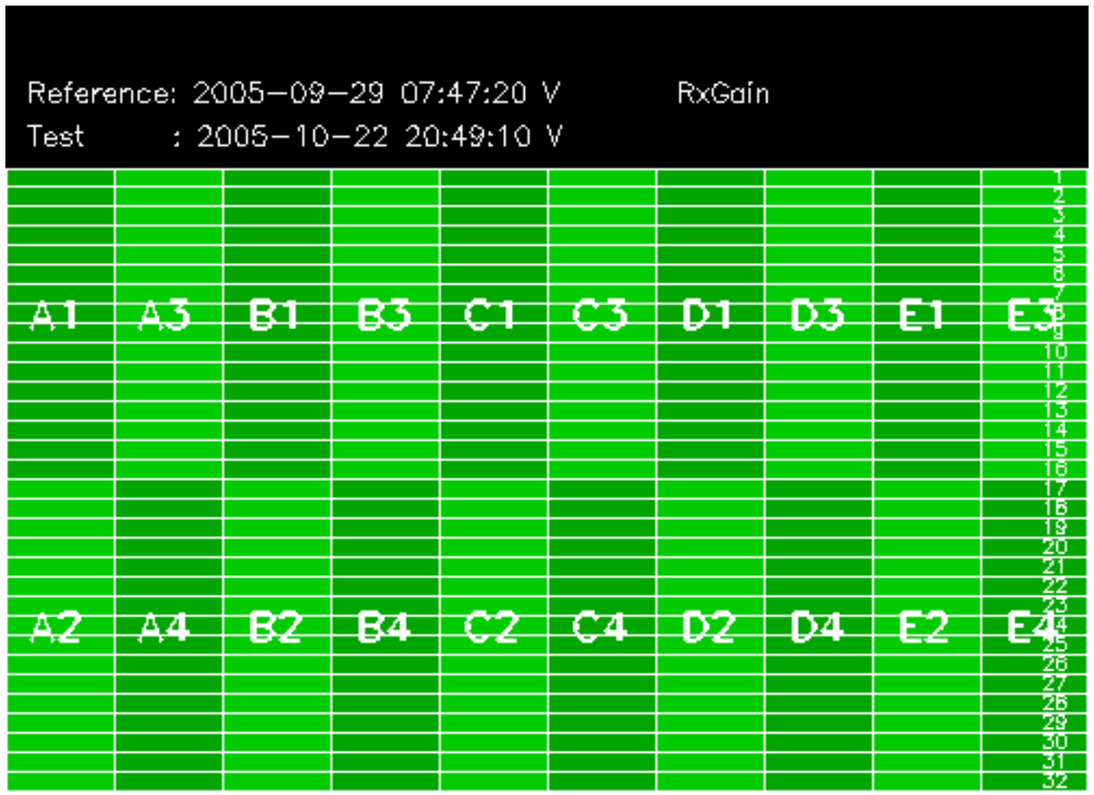
Reference: 2005-09-29 07:47:20 V
Test : 2005-10-22 20:49:10 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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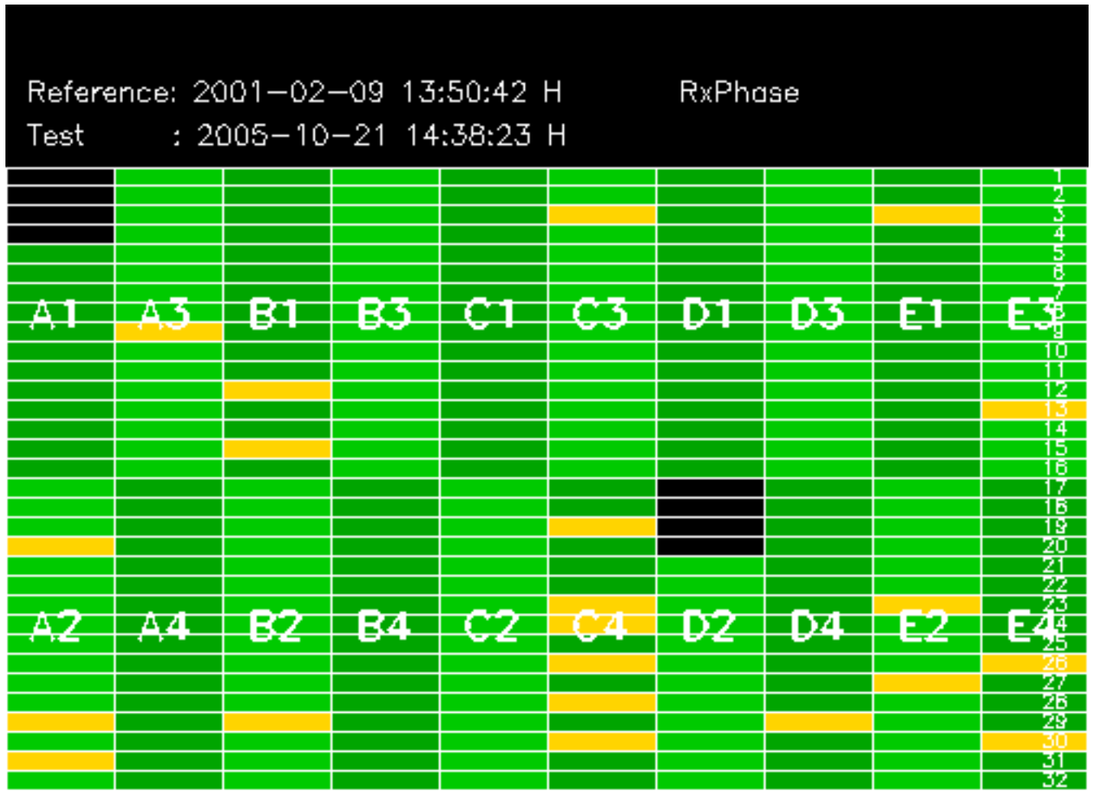
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2005-10-21 14:38:23 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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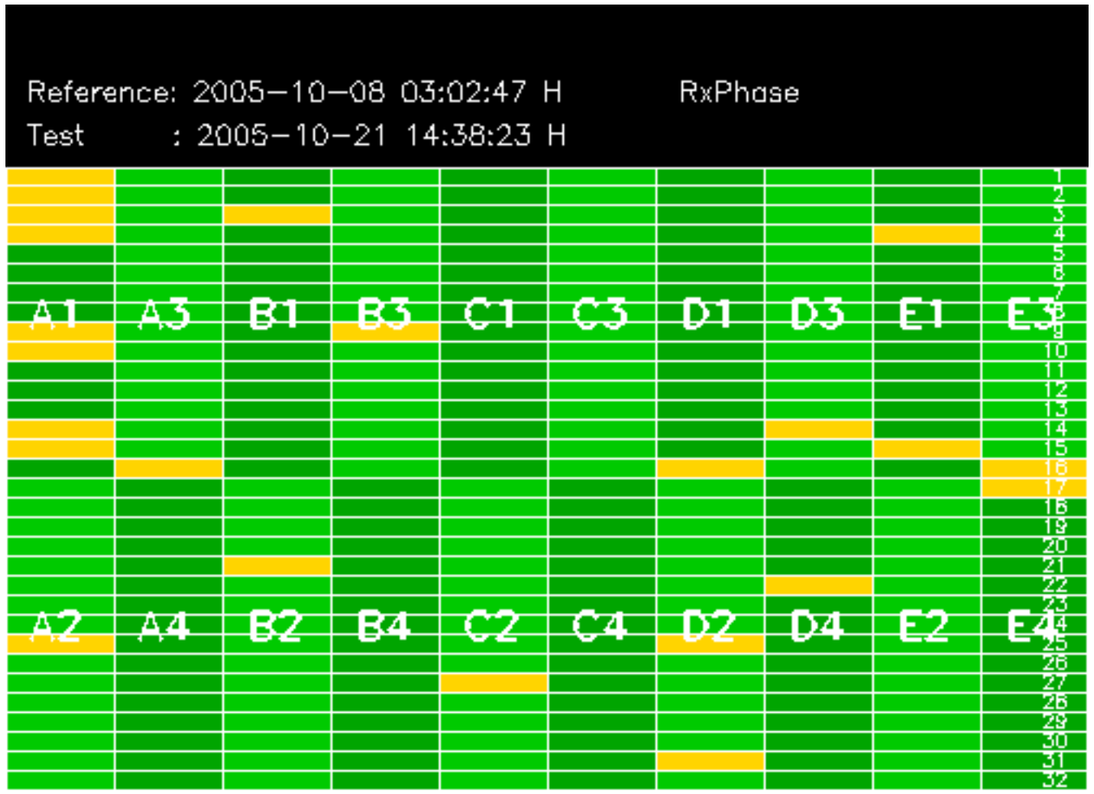
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2005-10-21 14:38:23 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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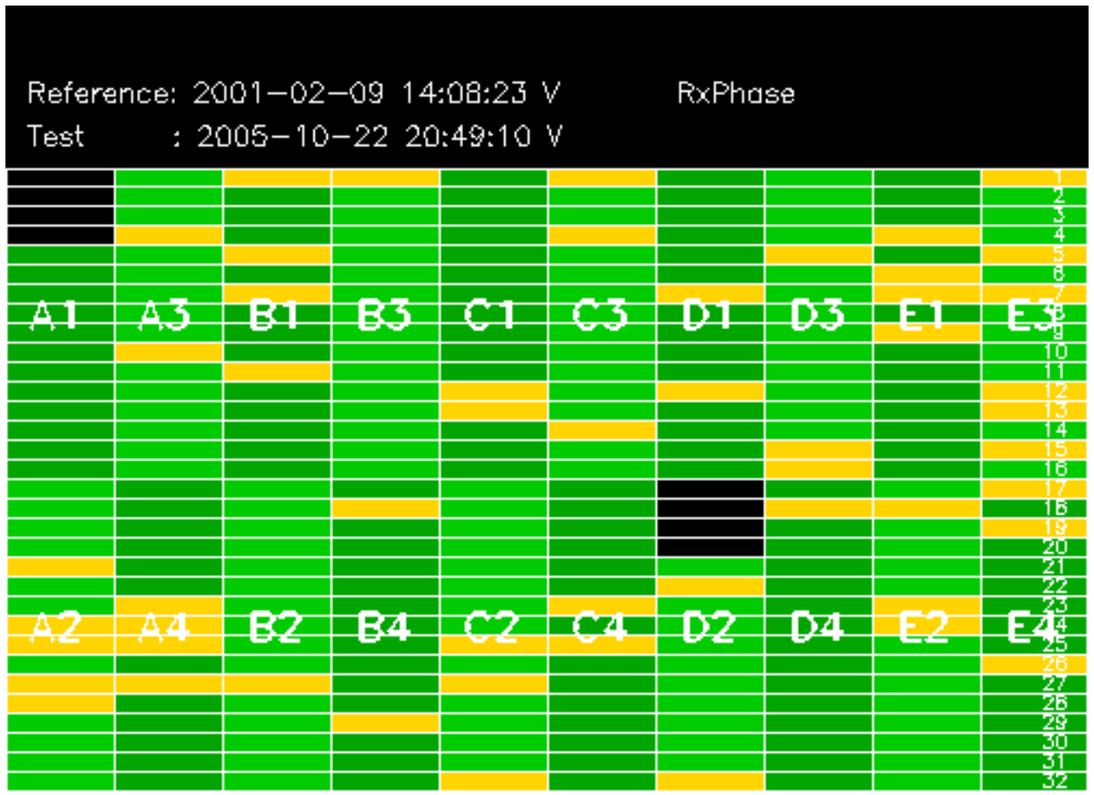
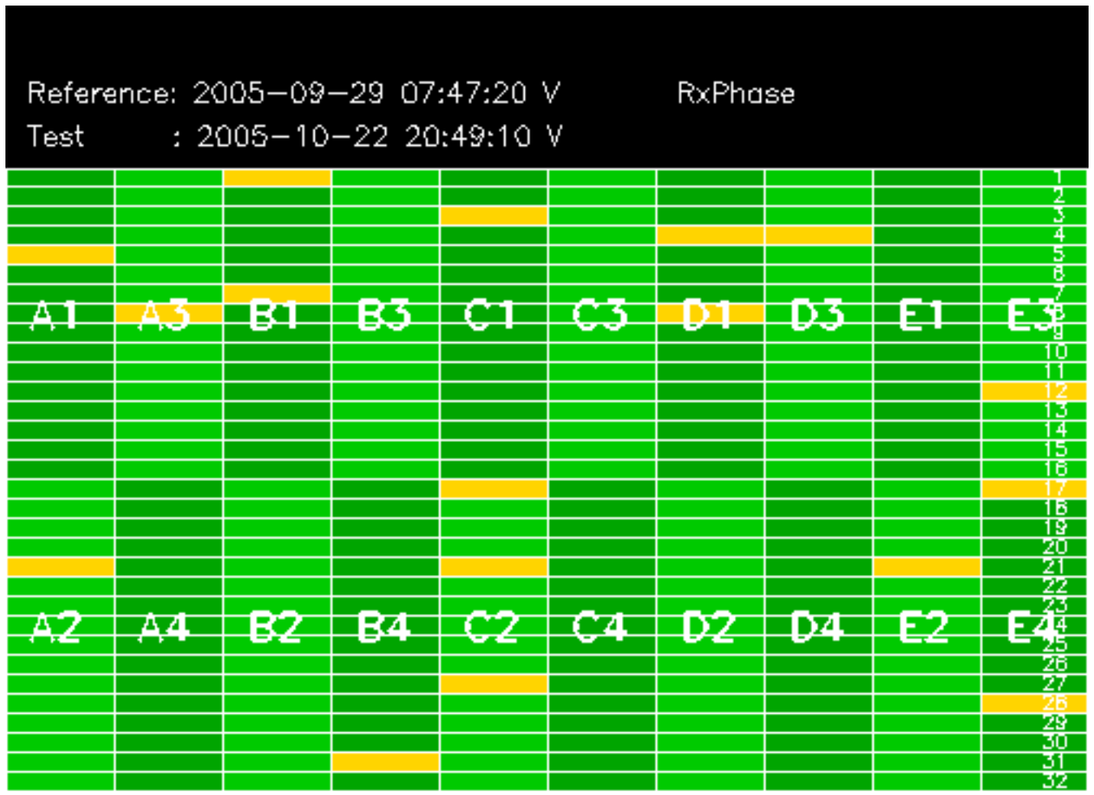

Reference: 2001-02-09 14:08:23 V
Test : 2005-10-22 20:49:10 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2005-10-22 20:49:10 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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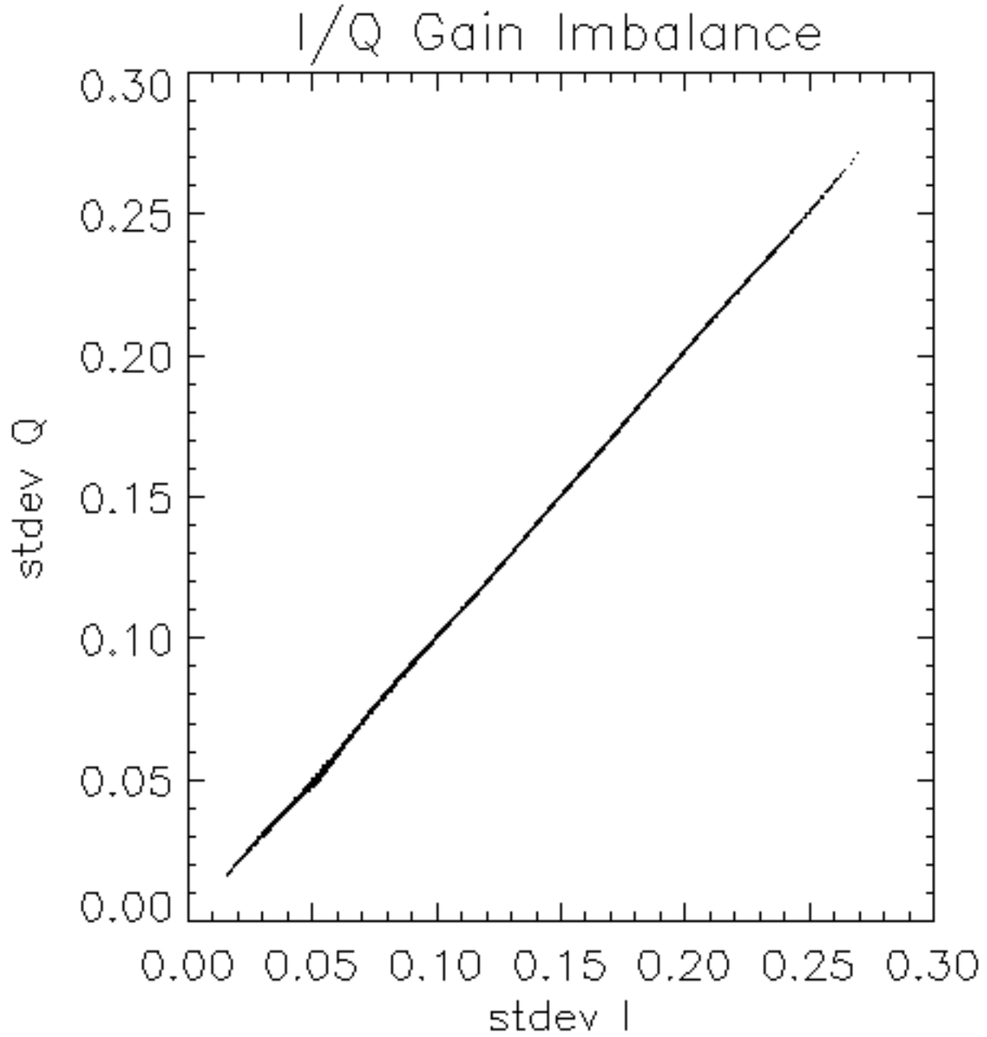
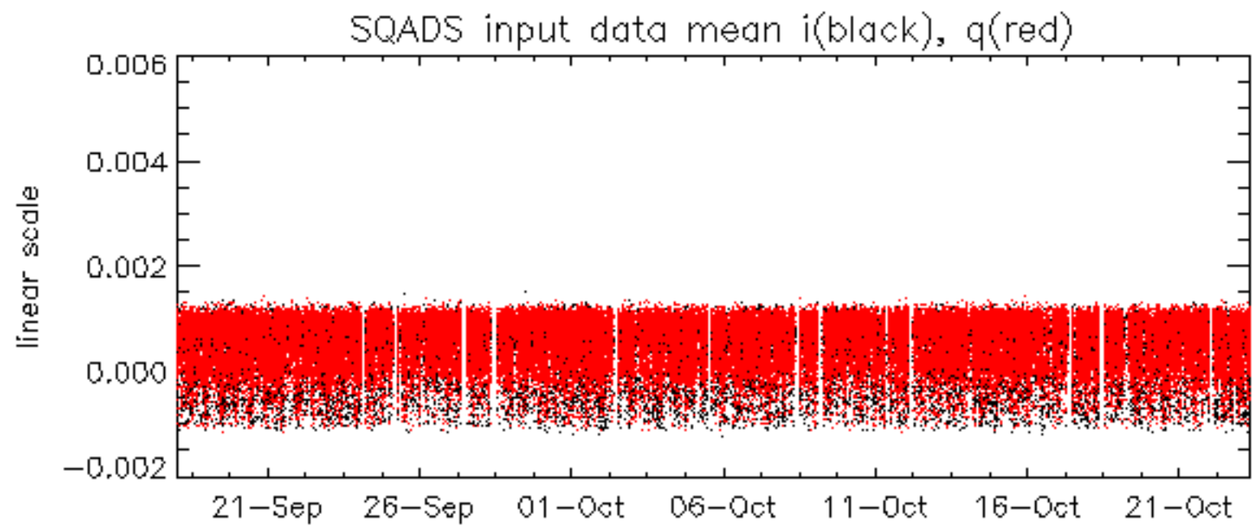
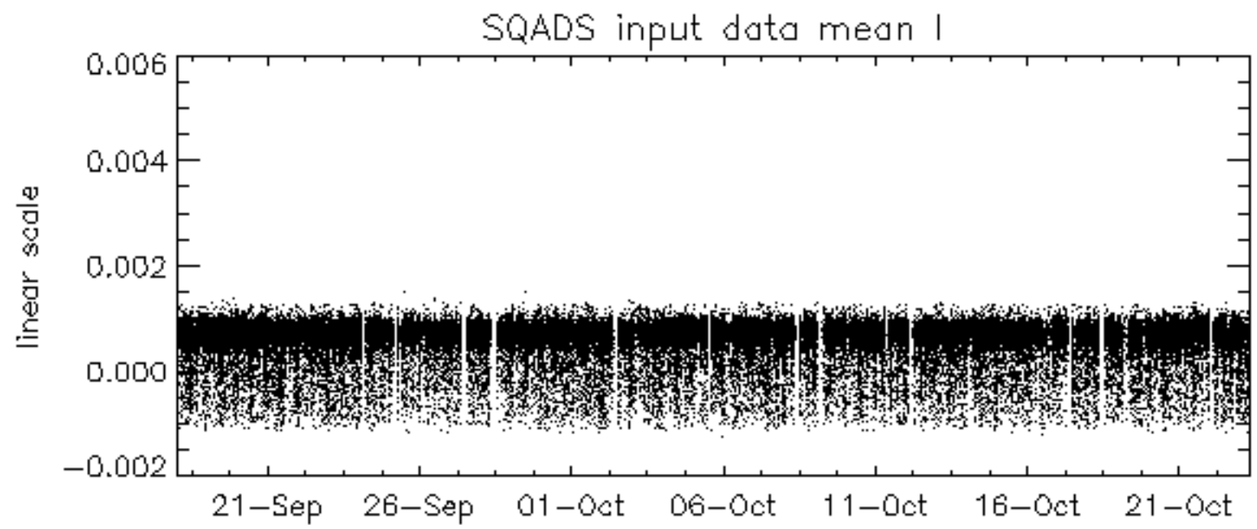
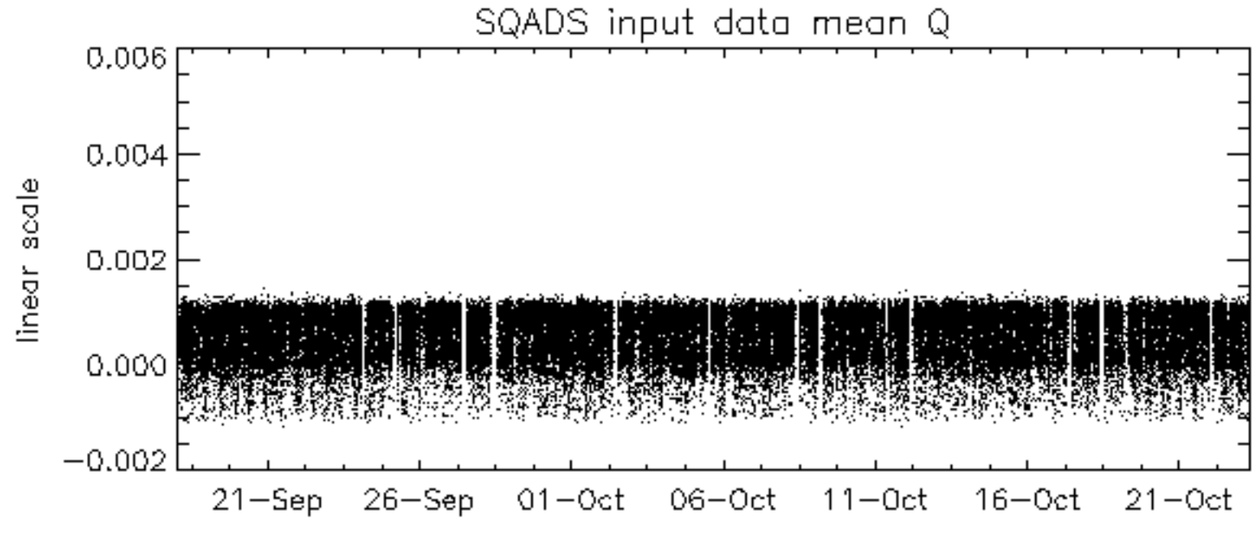
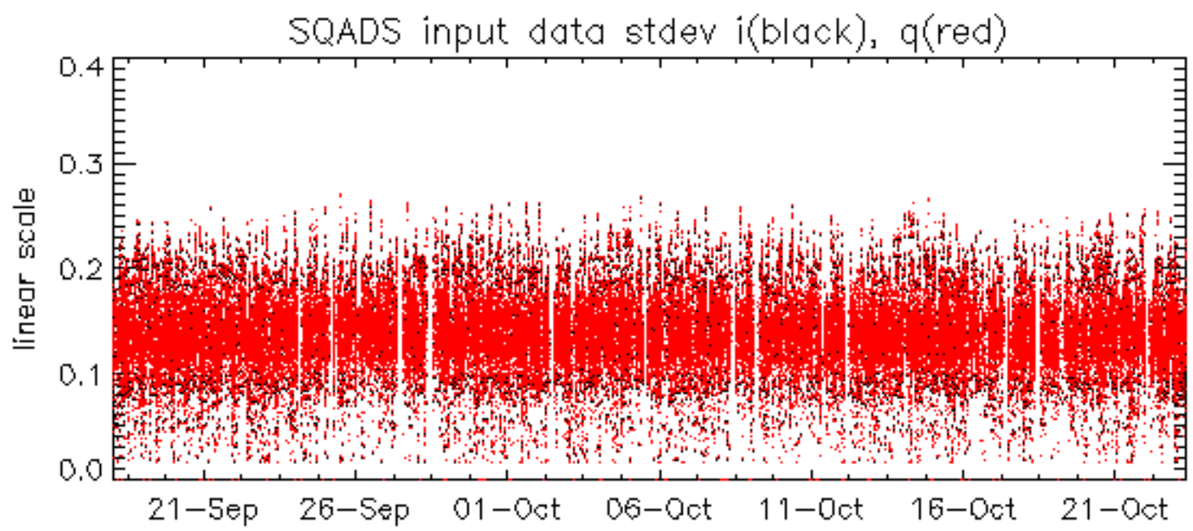
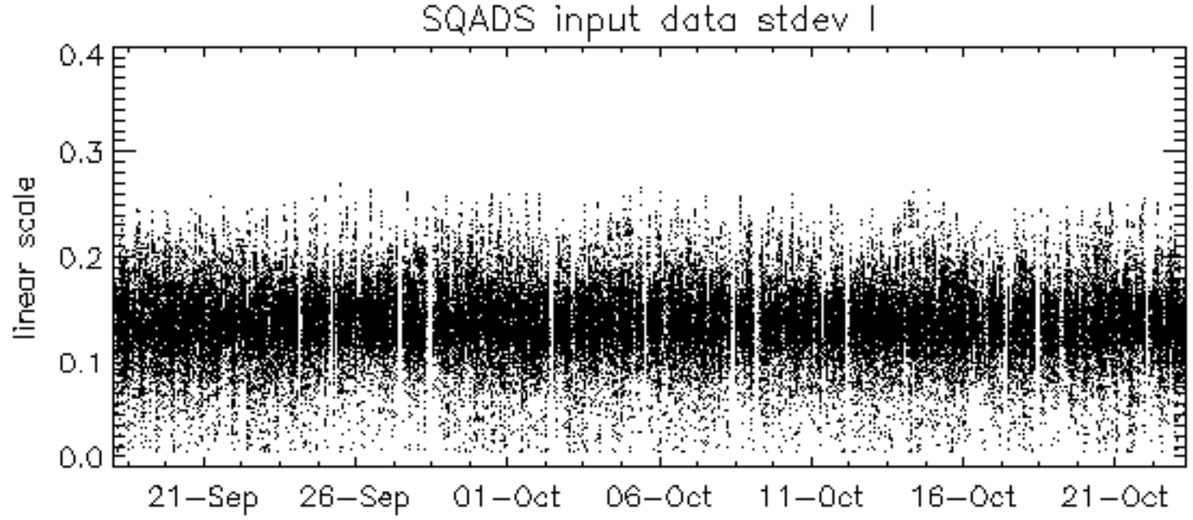

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

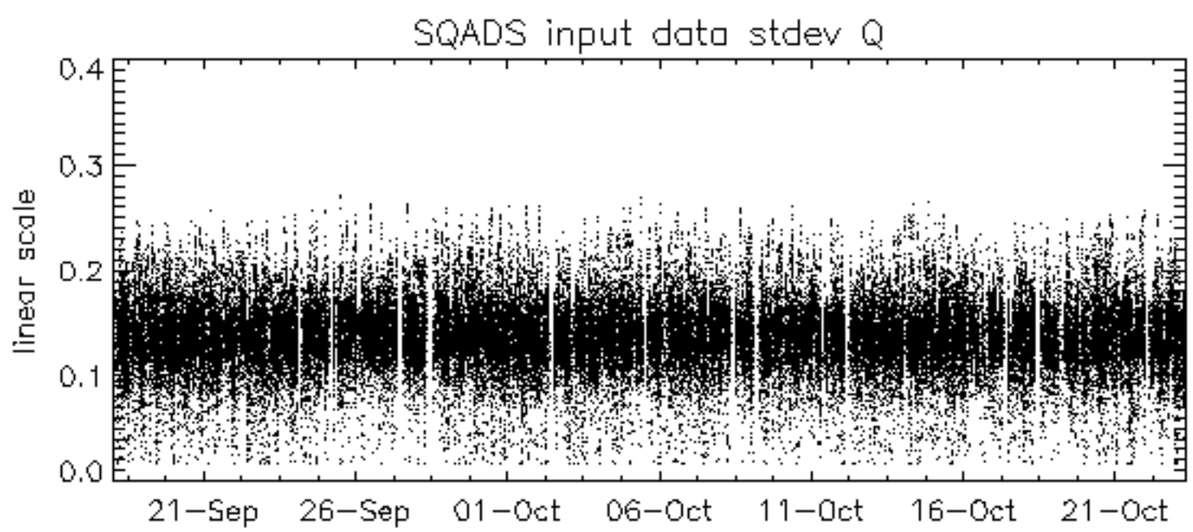

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct

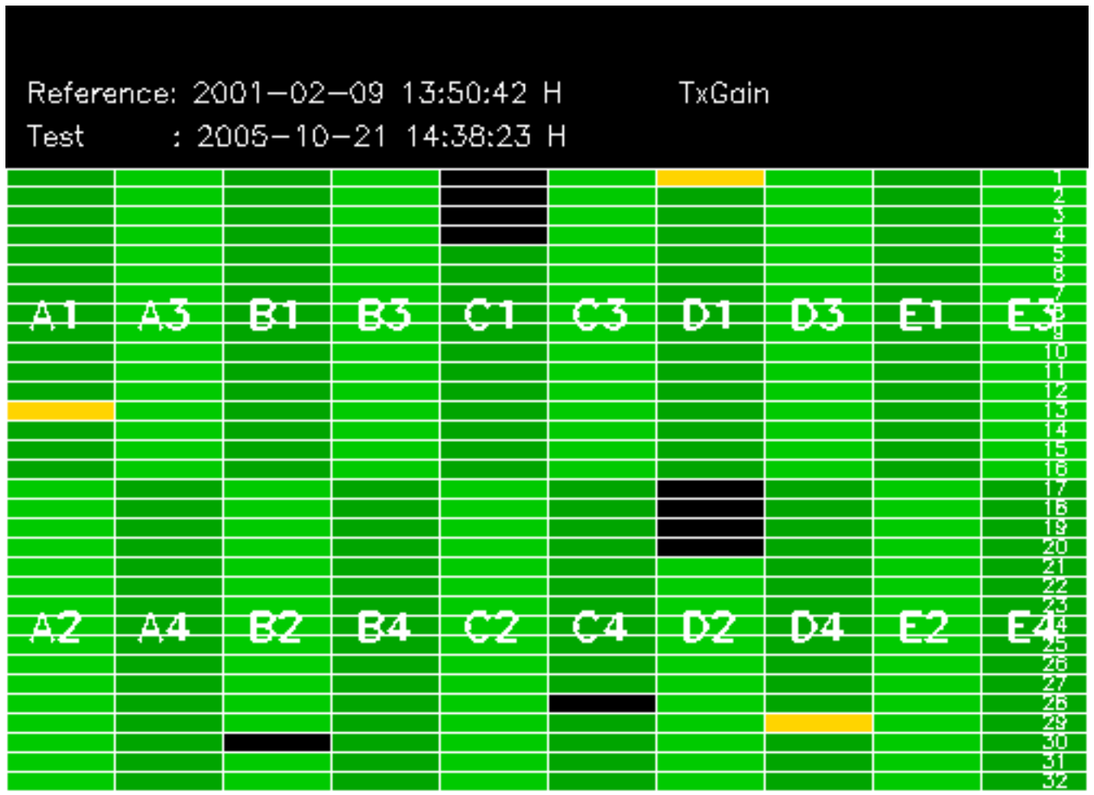

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
21−Sep
26−Sep
01−Oct
06−Oct
11−Oct
16−Oct
21−Oct


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2005-10-21 14:38:23 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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E4
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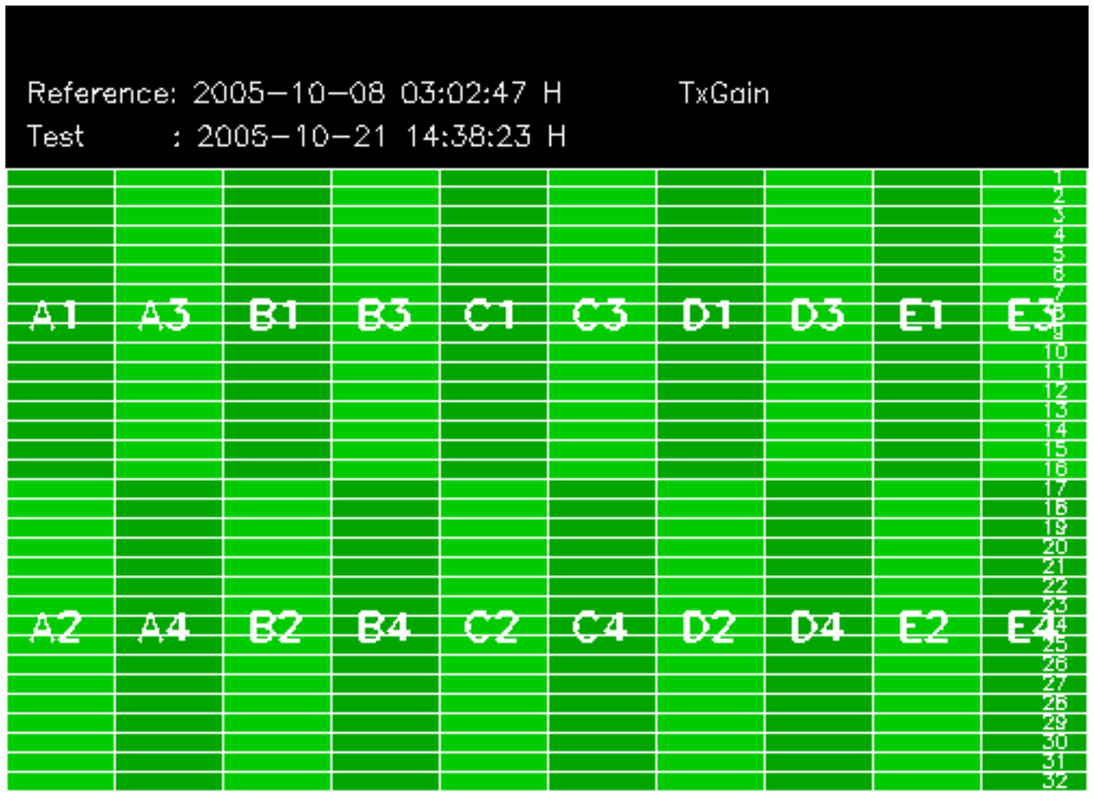
Reference: 2005-10-08 03:02:47 H
Test : 2005-10-21 14:38:23 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
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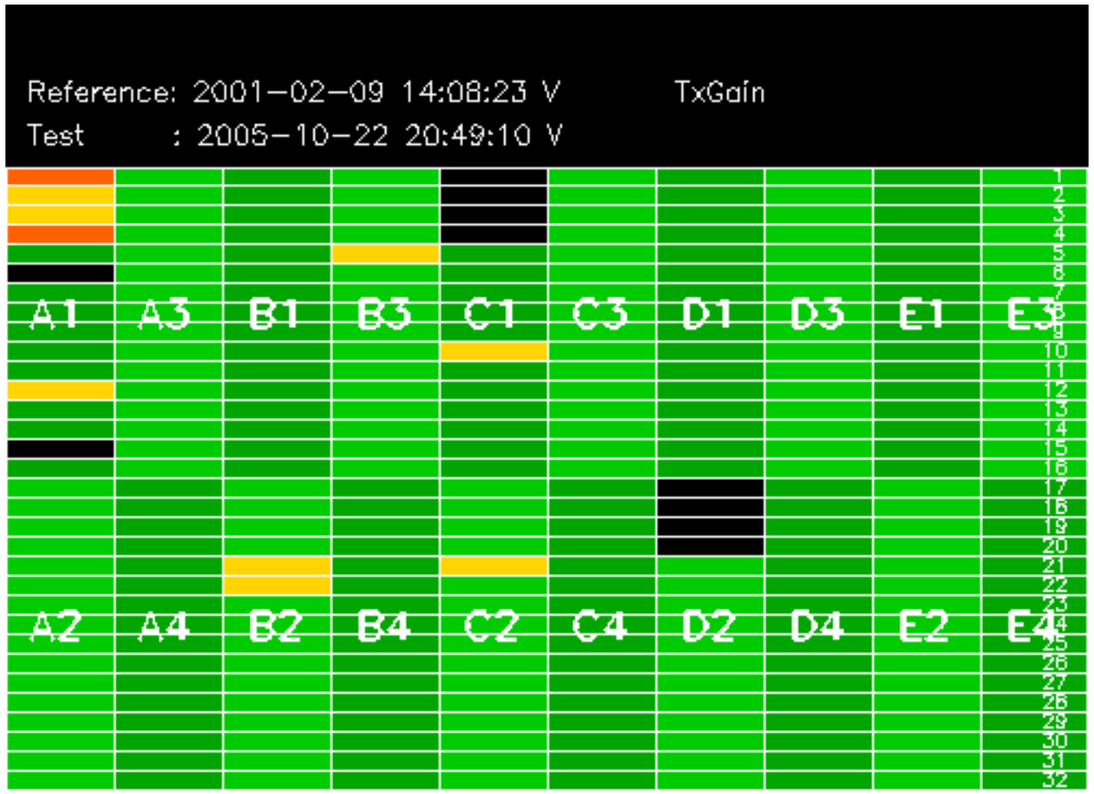
Reference: 2001-02-09 14:08:23 V
Test : 2005-10-22 20:49:10 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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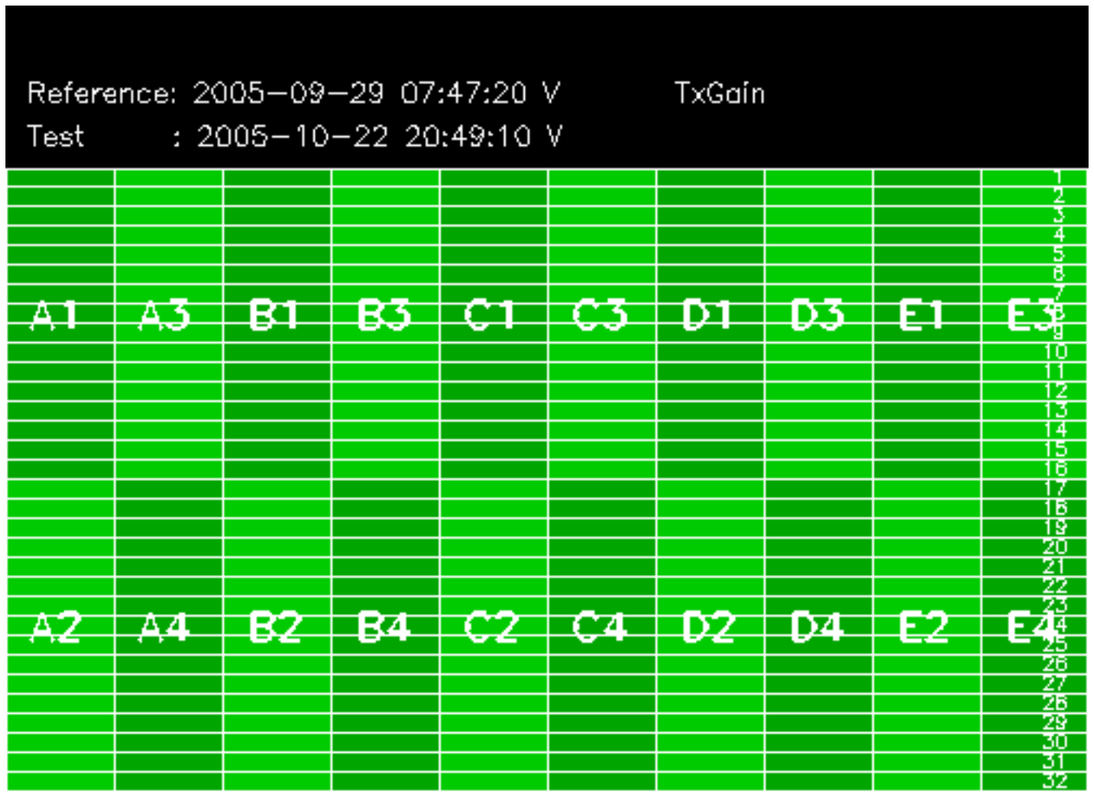
Reference: 2005-09-29 07:47:20 V
Test : 2005-10-22 20:49:10 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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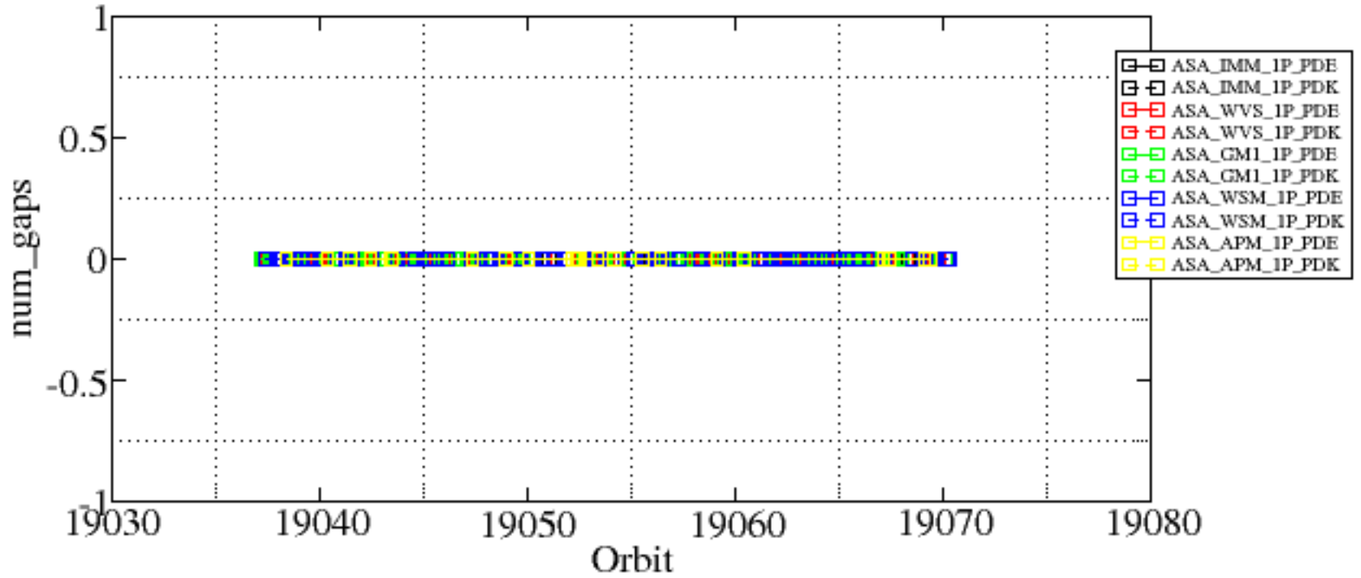
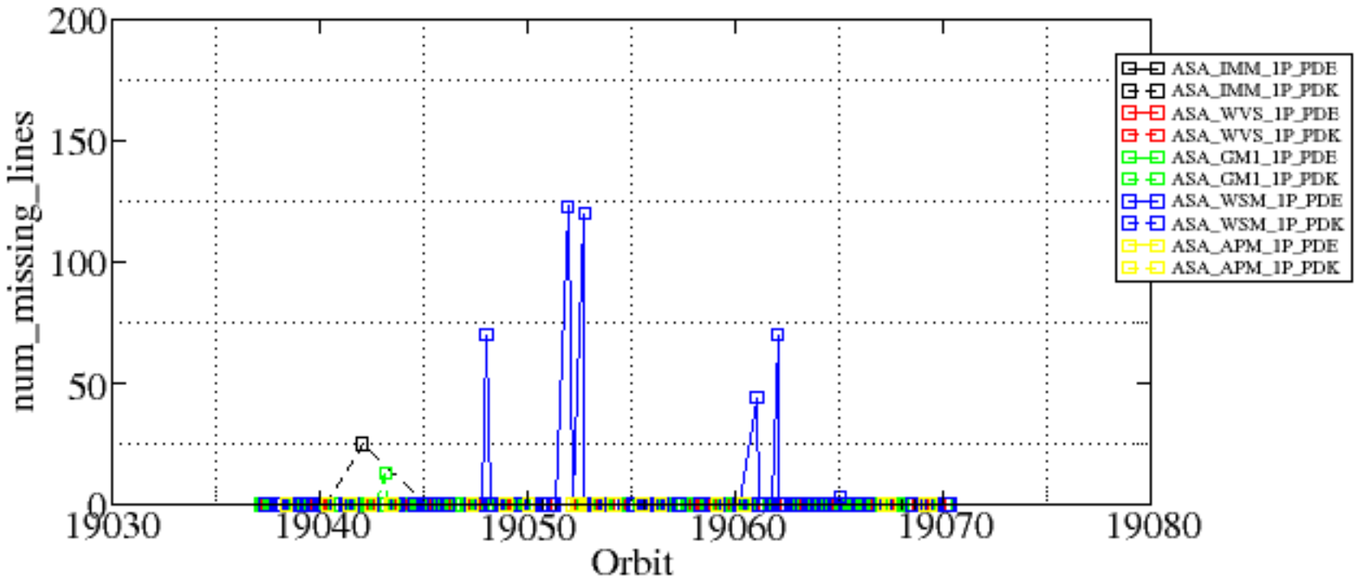
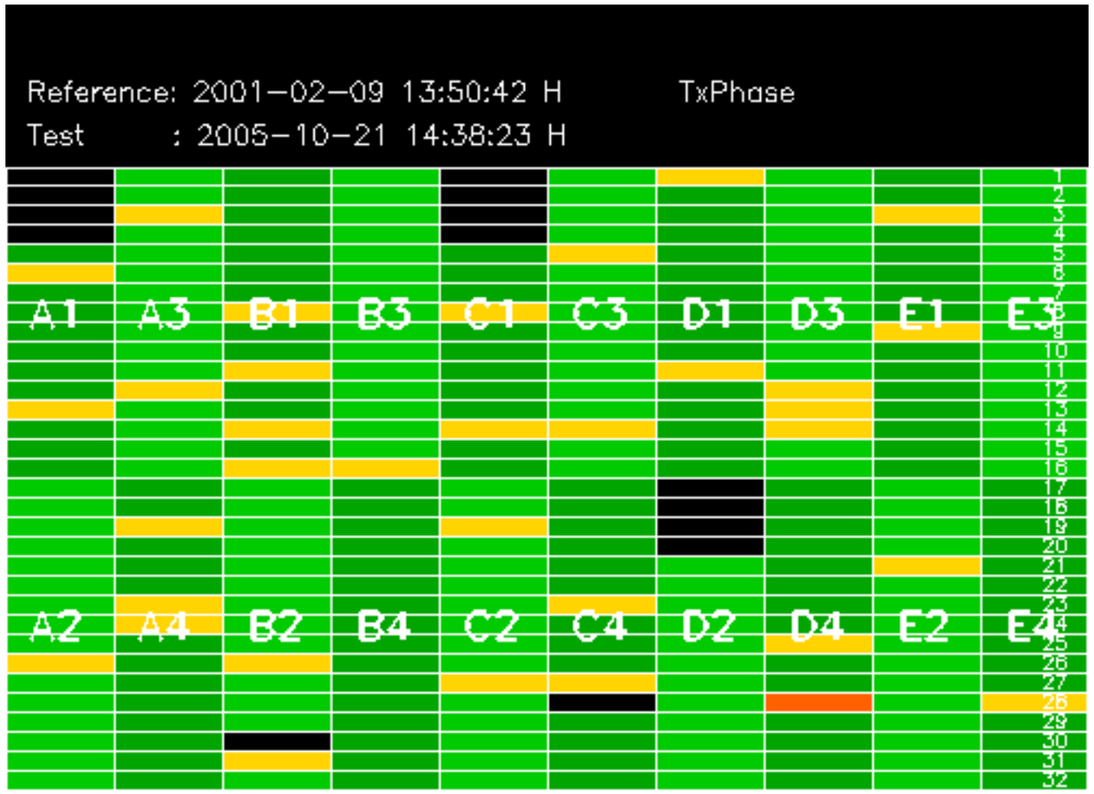
Summary of analysis for the last 3 days 2005102[123]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDK20051021_083359_000000382041_00451_19042_5963.N1 </td> <td>0 </td> <td>25 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20051021_102639_000006642041_00452_19043_9092.N1 </td> <td>0 </td> <td>13 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051021_183647_000002932041_00457_19048_5308.N1 </td> <td>0 </td> <td>70 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051022_010806_000002192041_00460_19051_5377.N1 </td> <td>0 </td> <td>123 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051022_022829_000000422041_00461_19052_5382.N1 </td> <td>0 </td> <td>120 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051022_162409_000000922041_00470_19061_5477.N1 </td> <td>0 </td> <td>44 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051022_180625_000001292041_00471_19062_5521.N1 </td> <td>0 </td> <td>70 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051022_230541_000000672041_00474_19065_5561.N1 </td> <td>0 </td> <td>3 </td></tr>
</table>


num_gaps
1
0.5
0
-0.5
-1
19030
19040
19050
19060
19070
19080
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
200
150
100
50
0
19030
19040
19050
19060
19070
19080
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 : 2005-10-21 14:38:23 H
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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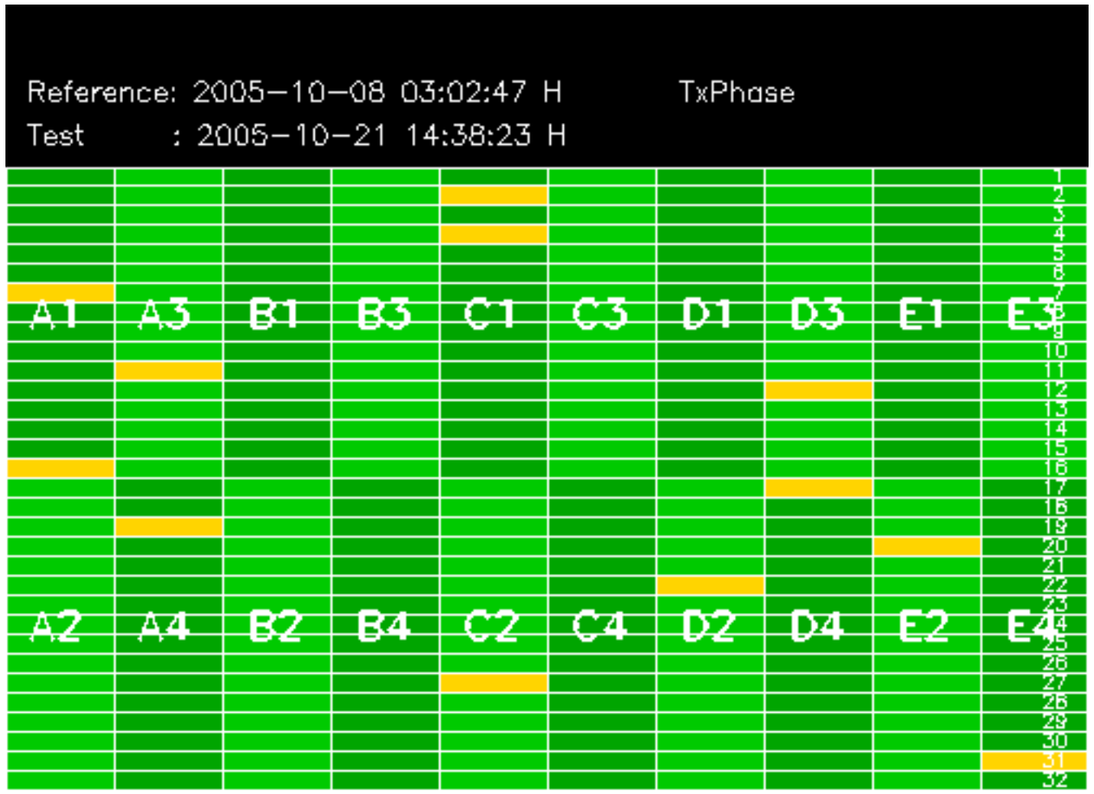
Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2005-10-21 14:38:23 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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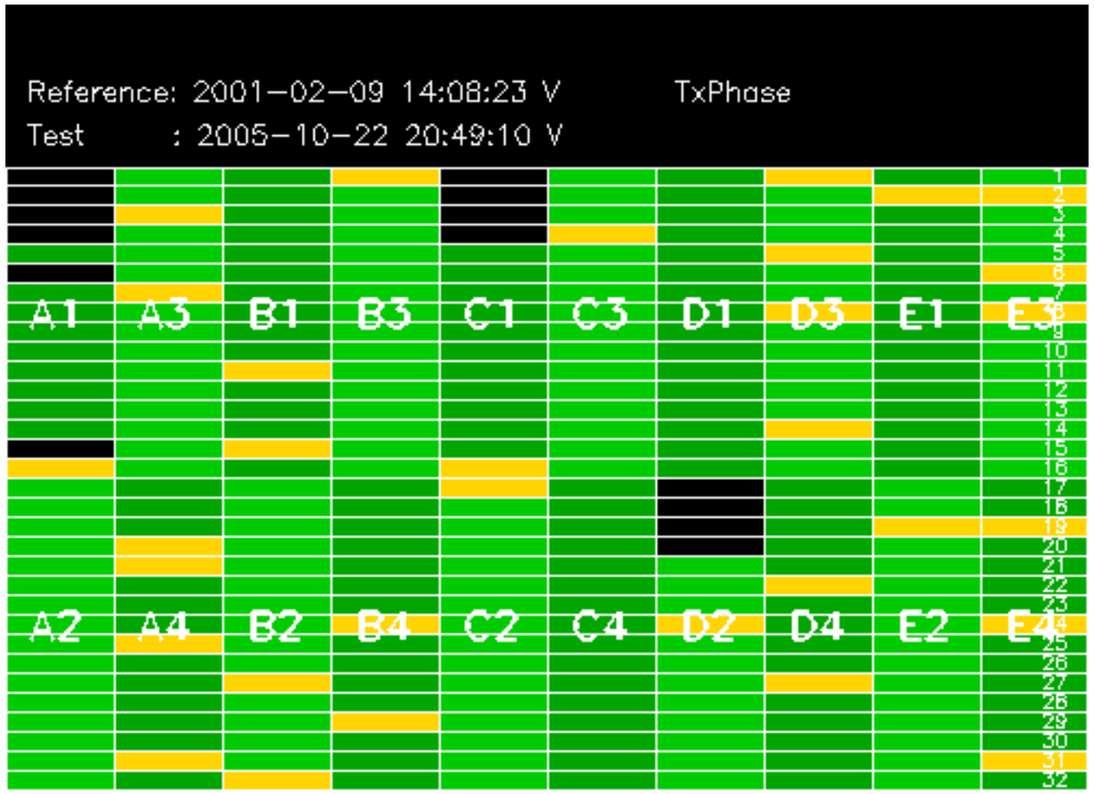
Reference: 2001-02-09 14:08:23 V
Test : 2005-10-22 20:49:10 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
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11
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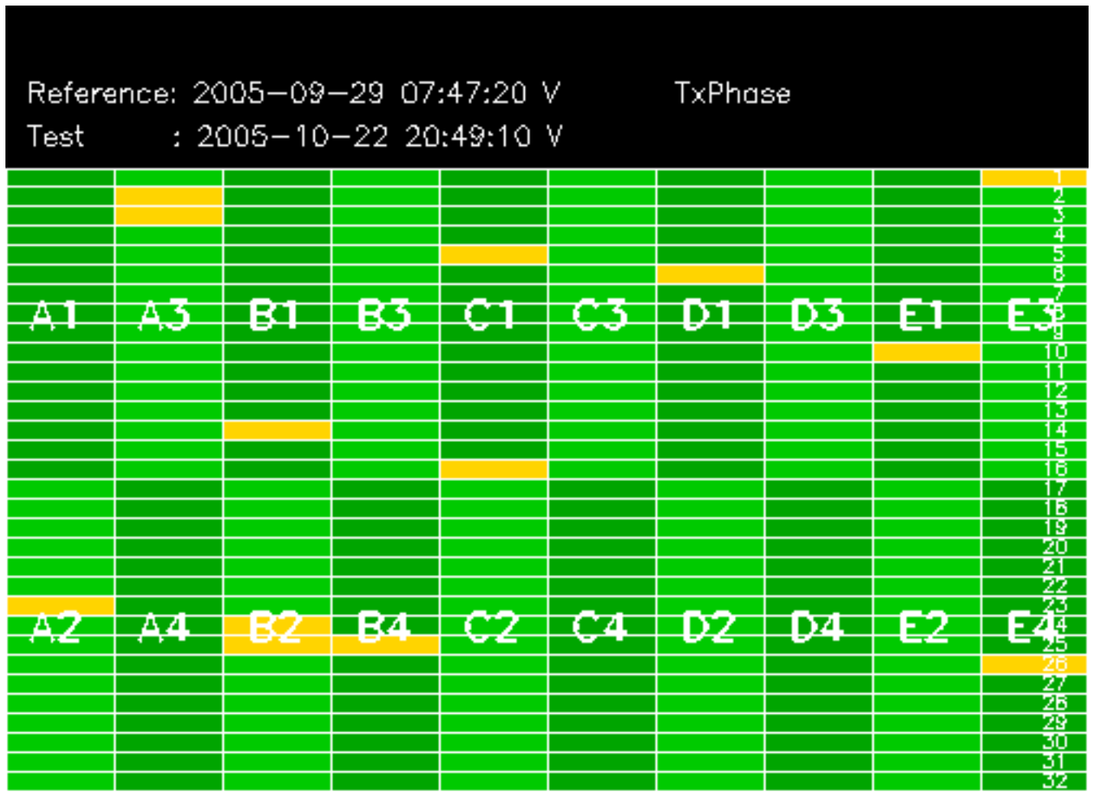
32


Reference: 2005-09-29 07:47:20 V
Test : 2005-10-22 20:49:10 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
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11
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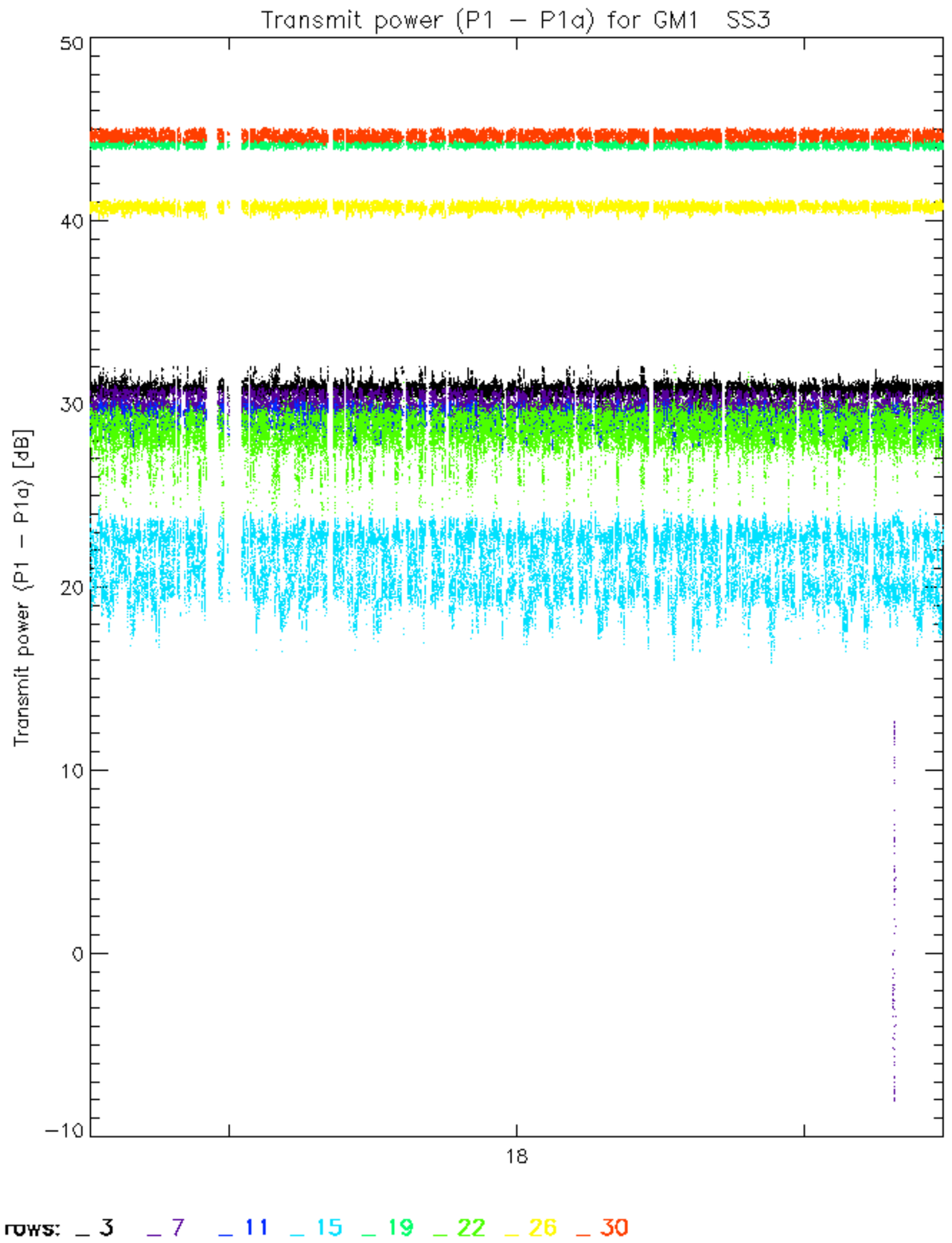
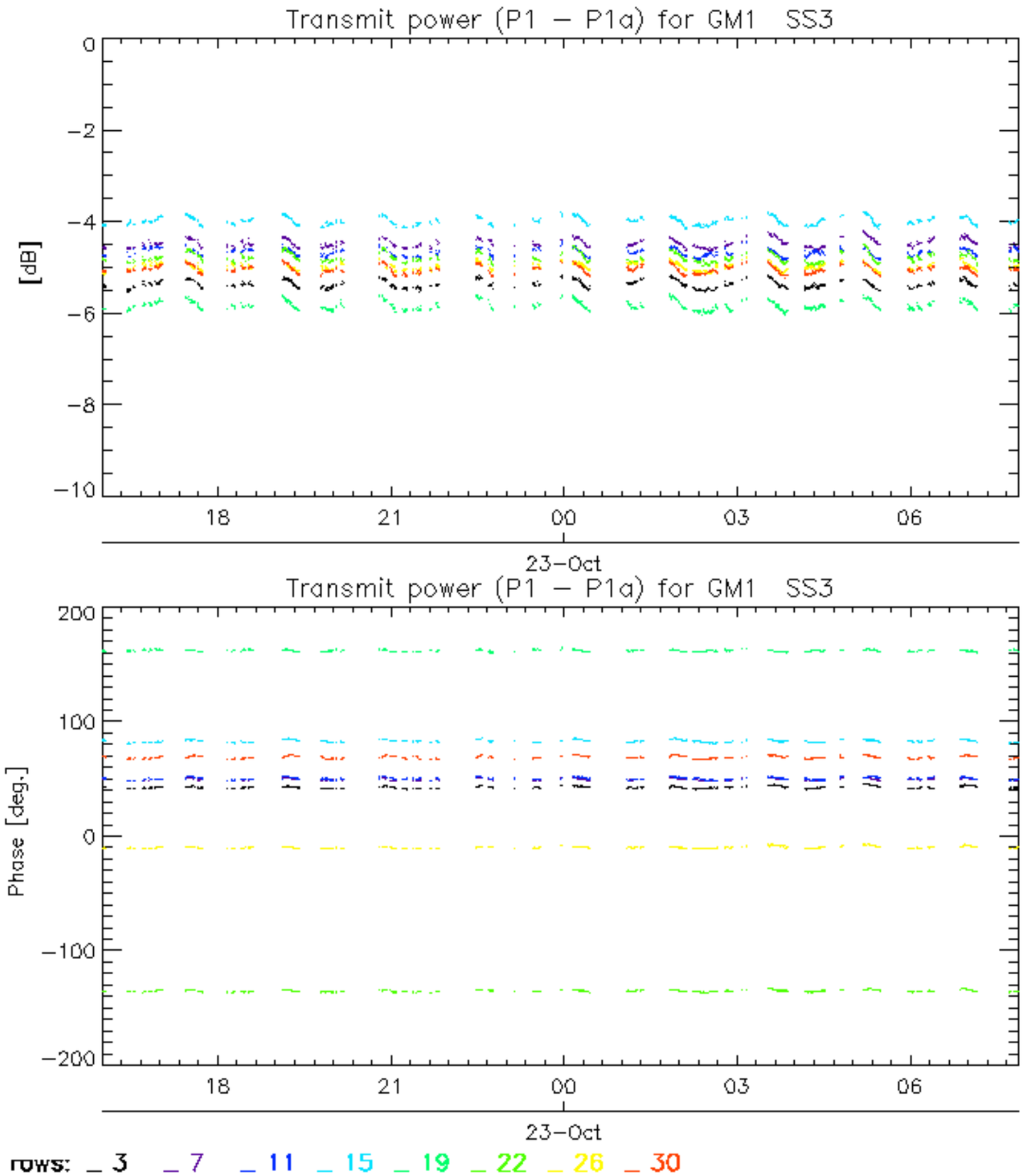
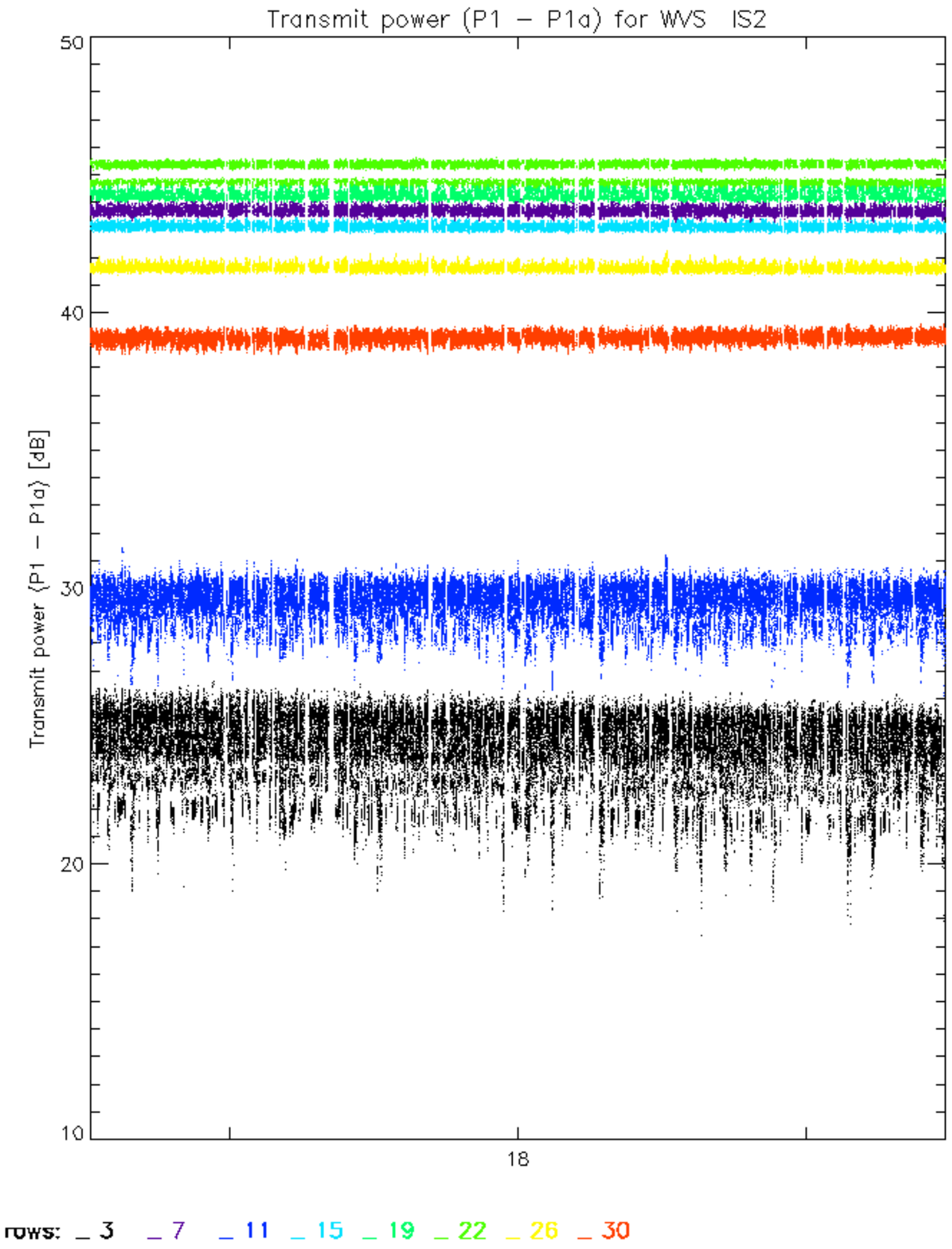
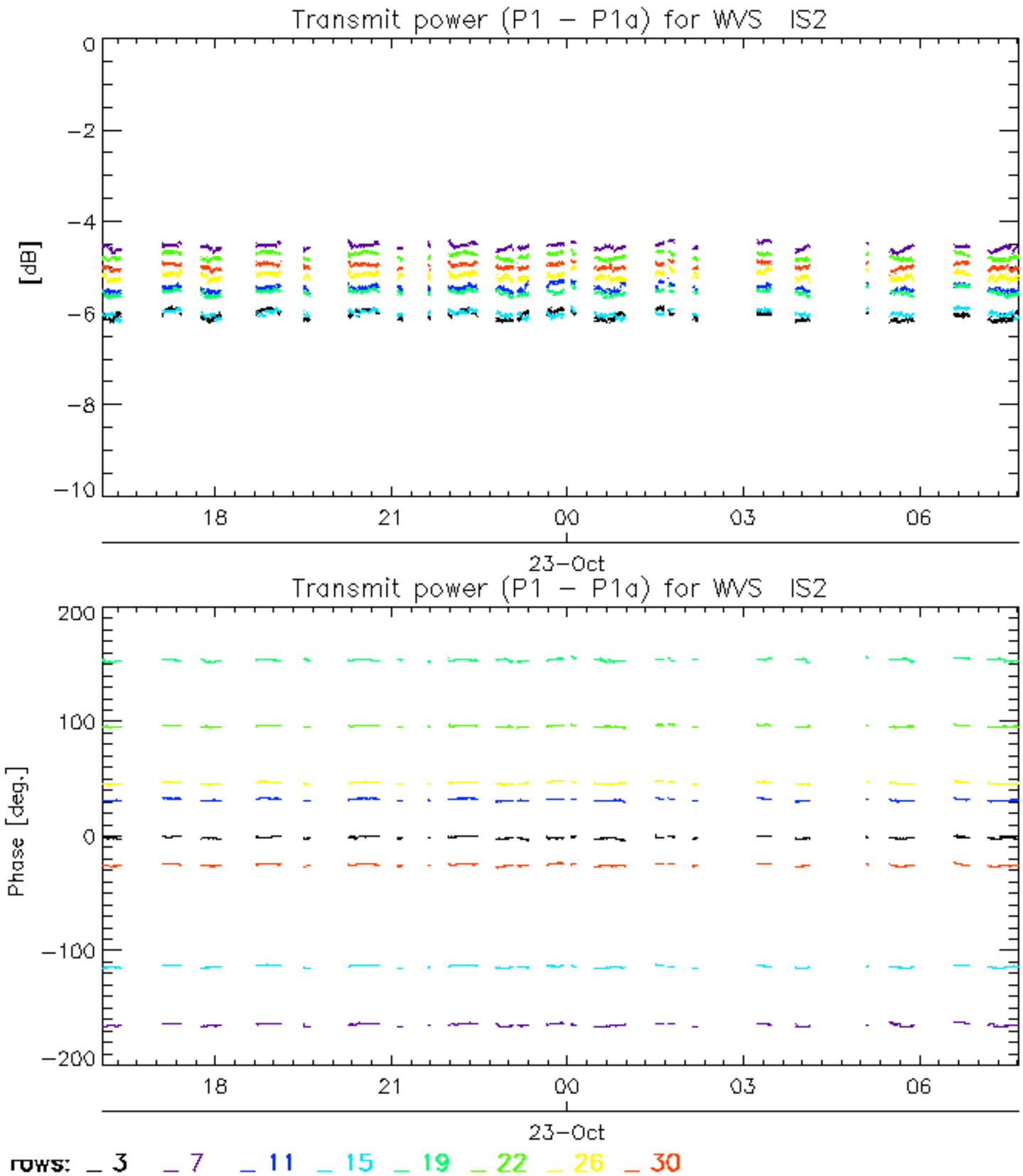

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
18
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
23−Oct
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
23−Oct
rows: 3 7 11 15 19 22 26 30


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

No unavailabilities during the reported period.