PRELIMINARY REPORT OF 051008

last update on Sat Oct 8 16:28:37 GMT 2005

1. Introduction
2. Summary
   - Instrument Unavailability
   - Auxiliary files used
   - Browse Visual Inspection
   - Module Stepping Results
   - Data Analysis
3. Module Stepping
4. Internal Calibration pulses
   - Daily statistics
   - Cyclic statistics
   - cal pulses monitoring (all rows)
5. Raw Data Statistics
   - raw data mean I and Q
   - raw data stdev I and Q
   - raw gain imbalance
6. TLM analysis
7. Wave Doppler analysis
   - Unbiased Doppler Error for WVS
   - Absolute Doppler for WVS
   - Doppler evolution versus ANX for WVS
   - Unbiased Doppler Error for GM1
   - Absolute Doppler for GM1
   - Doppler evolution versus ANX for GM1

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 2005-10-07 00:00:00 to 2005-10-08 16:28:37

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

ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	46	63	14	1	20
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	46	63	14	1	20
ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_000000	46	63	14	1	20
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	46	63	14	1	20

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	42	56	35	15	43
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	42	56	35	15	43
ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_000000	42	56	35	15	43
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	42	56	35	15	43

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	20051007 033424
H	20051004 050915

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	-3.544042	0.070567	-0.091301
7	P1	-2.984858	0.037614	0.467323
11	P1	-4.275022	0.144734	1.052651
15	P1	-5.933966	0.043113	-0.456006
19	P1	-3.223035	0.172404	0.554933
22	P1	-4.497573	0.023663	0.282884
26	P1	-4.470573	0.107760	0.890192
30	P1	-6.012793	0.477914	1.762318
3	P1	-15.852693	1.962830	1.450231
7	P1	-16.732897	5.084381	1.310494
11	P1	-18.313559	13.673267	9.702097
15	P1	-13.730238	9.890952	0.385905
19	P1	-13.742794	0.248179	0.924631
22	P1	-17.332003	24.813765	3.795976
26	P1	-17.834080	23.232489	5.827432
30	P1	-17.615772	9.692334	4.806228

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.827715	0.103444	-0.214358
7	P2	-22.550762	0.257955	-0.932914
11	P2	-16.081202	2.234248	-3.837340
15	P2	-7.204099	0.119080	-0.106568
19	P2	-9.177366	0.197351	0.224625
22	P2	-17.446428	0.246224	-1.257443
26	P2	-16.199720	0.133833	0.603098
30	P2	-19.466665	0.218318	-0.863724

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.174842	0.004816	-0.033546
7	P3	-8.174842	0.004816	-0.033546
11	P3	-8.174842	0.004816	-0.033546
15	P3	-8.174842	0.004816	-0.033546
19	P3	-8.174842	0.004816	-0.033546
22	P3	-8.174842	0.004816	-0.033546
26	P3	-8.174842	0.004816	-0.033546
30	P3	-8.174842	0.004816	-0.033546

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	-3.337582	0.283303	-1.447416
7	P1	-2.945219	0.071239	0.402497
11	P1	-3.189137	0.294020	1.637443
15	P1	-3.466367	0.032986	0.370056
19	P1	-3.343089	0.066559	0.111491
22	P1	-5.177189	0.175703	0.308223
26	P1	-5.955932	0.674026	1.264088
30	P1	-5.312408	0.388360	0.786224
3	P1	-11.505615	0.468347	0.228466
7	P1	-11.507568	21.763153	5.687645
11	P1	-12.607935	42.573612	10.039456
15	P1	-12.708691	36.939320	7.753577
19	P1	-15.316203	0.229685	-0.428563
22	P1	-21.679564	5.585686	6.273365
26	P1	-17.294649	5.571926	0.011818
30	P1	-19.483326	1.950868	2.629647

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.627182	0.061665	-0.436033
7	P2	-22.836544	0.283132	-1.141455
11	P2	-11.264796	0.929354	-2.599654
15	P2	-4.933493	0.047899	0.261940
19	P2	-6.783881	0.118107	-0.410982
22	P2	-7.794423	0.242409	-1.450997
26	P2	-23.879194	0.043420	0.163397
30	P2	-22.076908	0.061460	0.035650

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.017733	0.002920	-0.036749
7	P3	-8.017773	0.002920	-0.037241
11	P3	-8.017558	0.002926	-0.037302
15	P3	-8.017646	0.002927	-0.037298
19	P3	-8.017855	0.002922	-0.036939
22	P3	-8.017586	0.002928	-0.037143
26	P3	-8.017864	0.002924	-0.037309
30	P3	-8.017694	0.002937	-0.037009

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	0.000530711
	stdev	1.84869e-07
MEAN Q	mean	0.000523094
	stdev	2.18370e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.135262
	stdev	0.00110677
STDEV Q	mean	0.135582
	stdev	0.00112221

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005100[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_IMM_1PNPDE20051007_155150_000000772041_00255_18846_7711.N1	1	0
ASA_IMM_1PNPDK20051007_124322_000000532041_00253_18844_5323.N1	1	0
ASA_WSM_1PNPDE20051006_044316_000003062041_00234_18825_2610.N1	0	53
ASA_WSM_1PNPDE20051006_162645_000001762041_00241_18832_2652.N1	0	44
ASA_WSM_1PNPDE20051006_180926_000001832041_00242_18833_2673.N1	0	19
ASA_WSM_1PNPDE20051006_184205_000000852041_00242_18833_2698.N1	0	1
ASA_WSM_1PNPDE20051007_013227_000002392041_00246_18837_2779.N1	0	55
ASA_APM_1PNPDE20051007_141715_000000822041_00254_18845_1696.N1	0	21

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

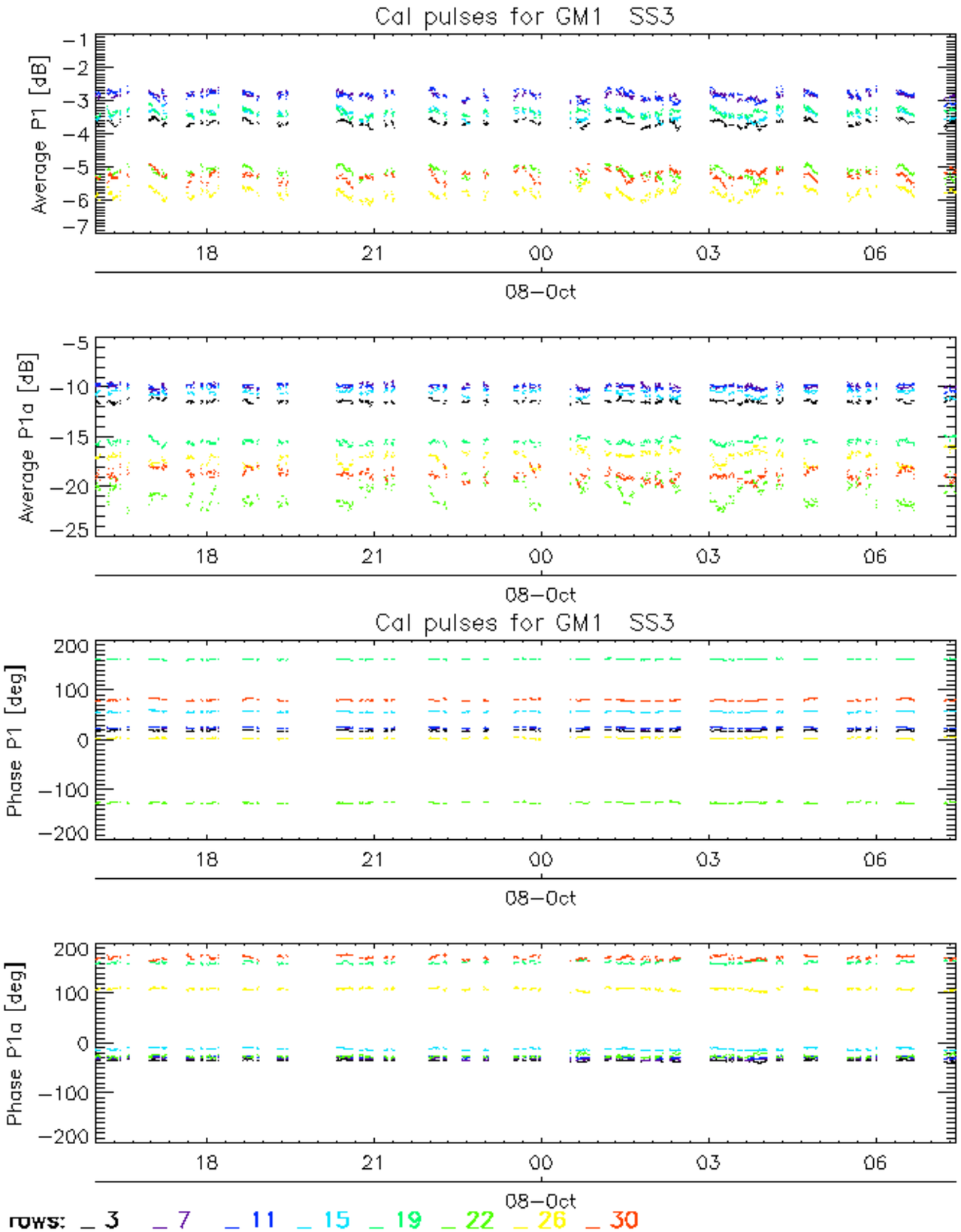
Evolution of unbiased Doppler error (Real - Expected)
Acsending
Descending

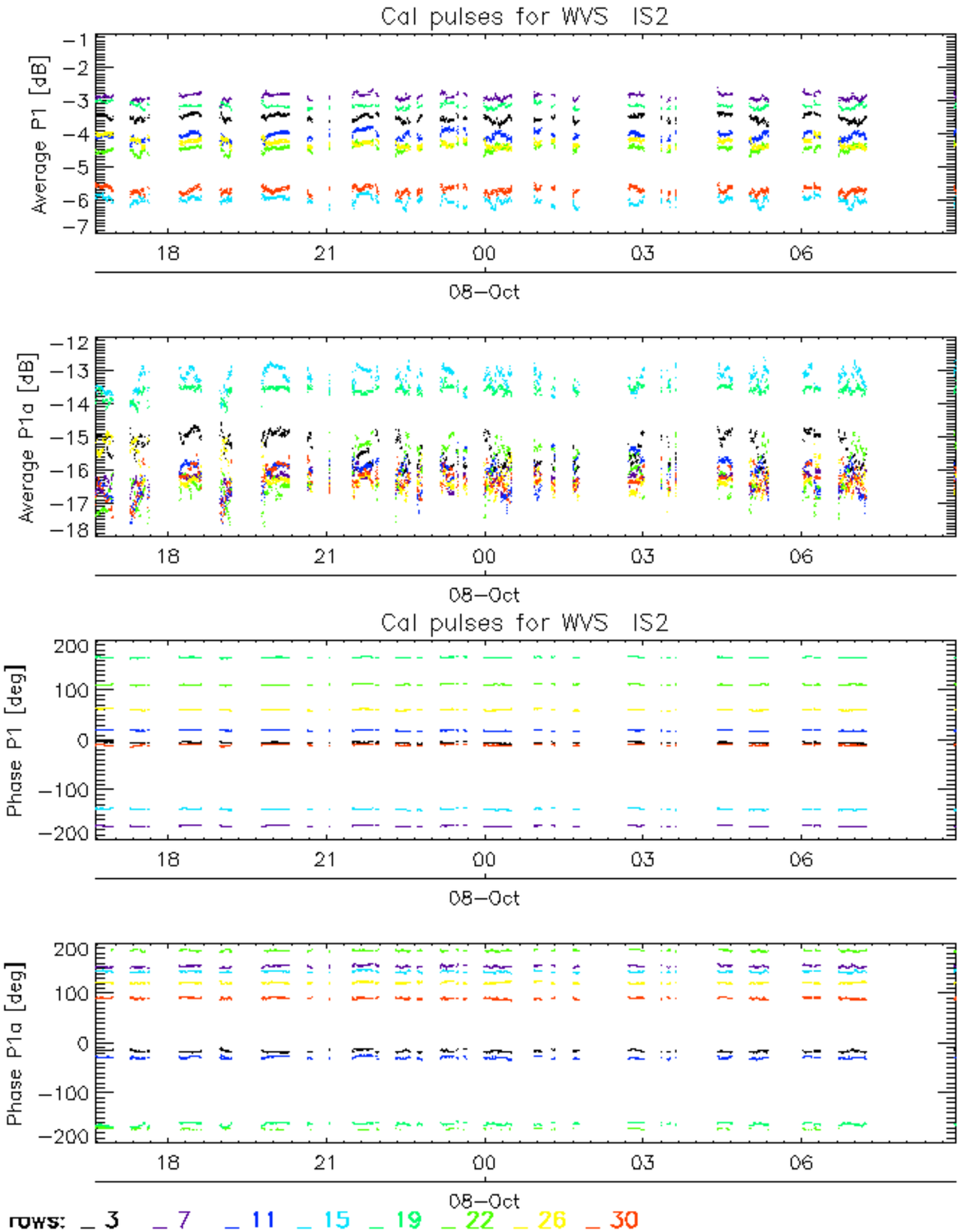
7.5 - Absolute Doppler for GM1

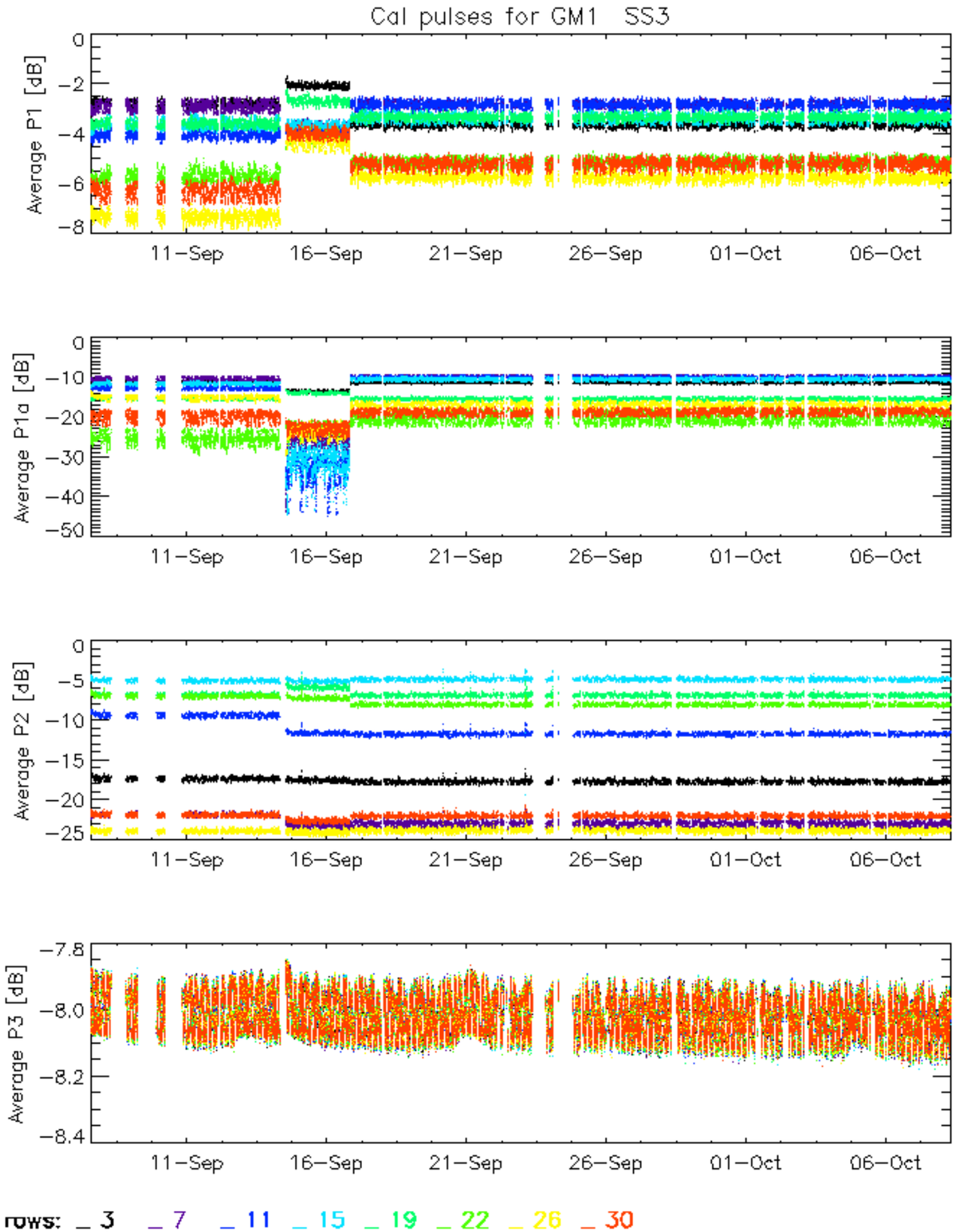
Evolution of Absolute Doppler
Acsending
Descending

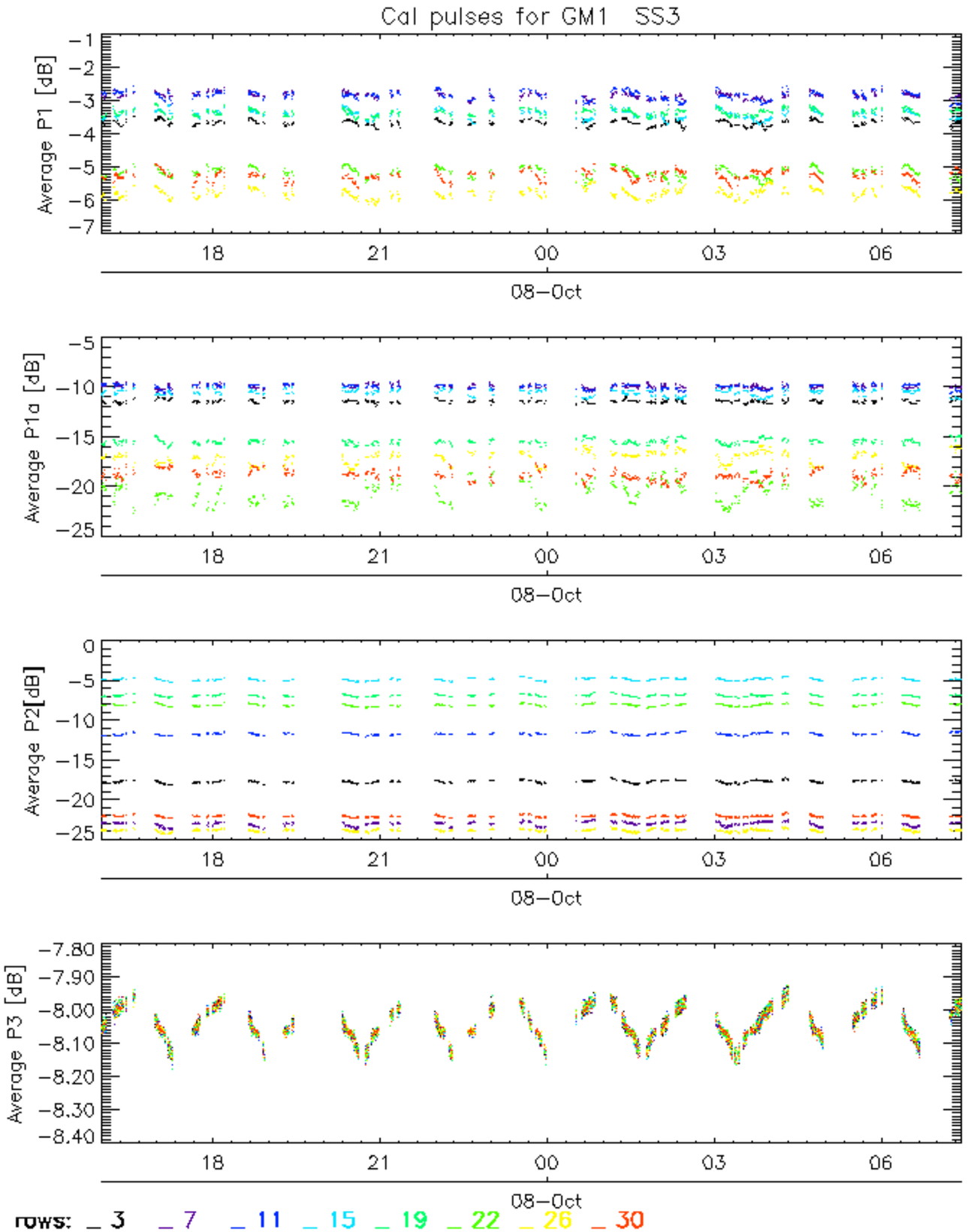
7.6 - Doppler evolution versus ANX for GM1

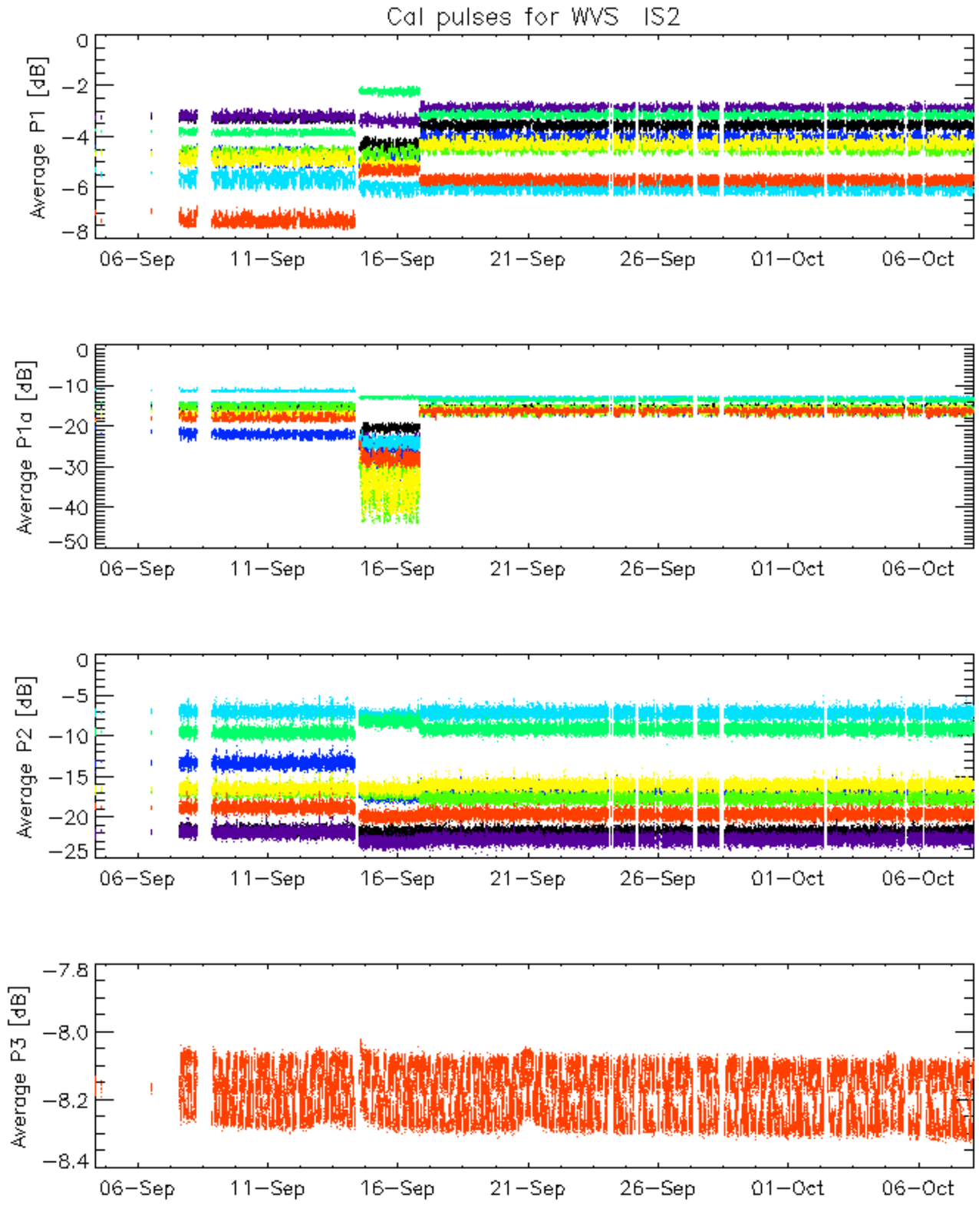
Evolution Doppler error versus ANX

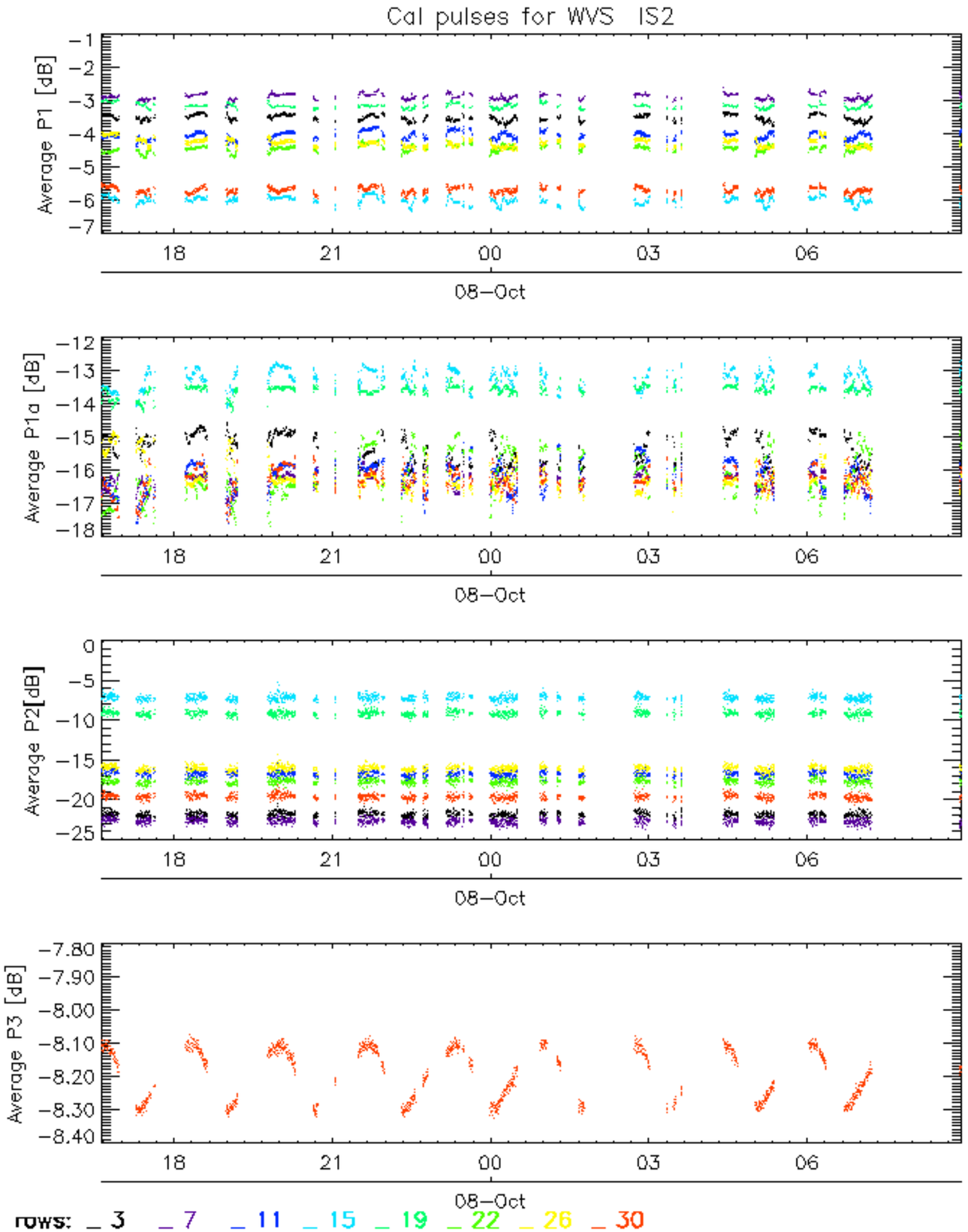

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
08−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
08−Oct
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
08−Oct
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
08−Oct
rows: _ 3 _ 7 _ 11 _ 15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


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

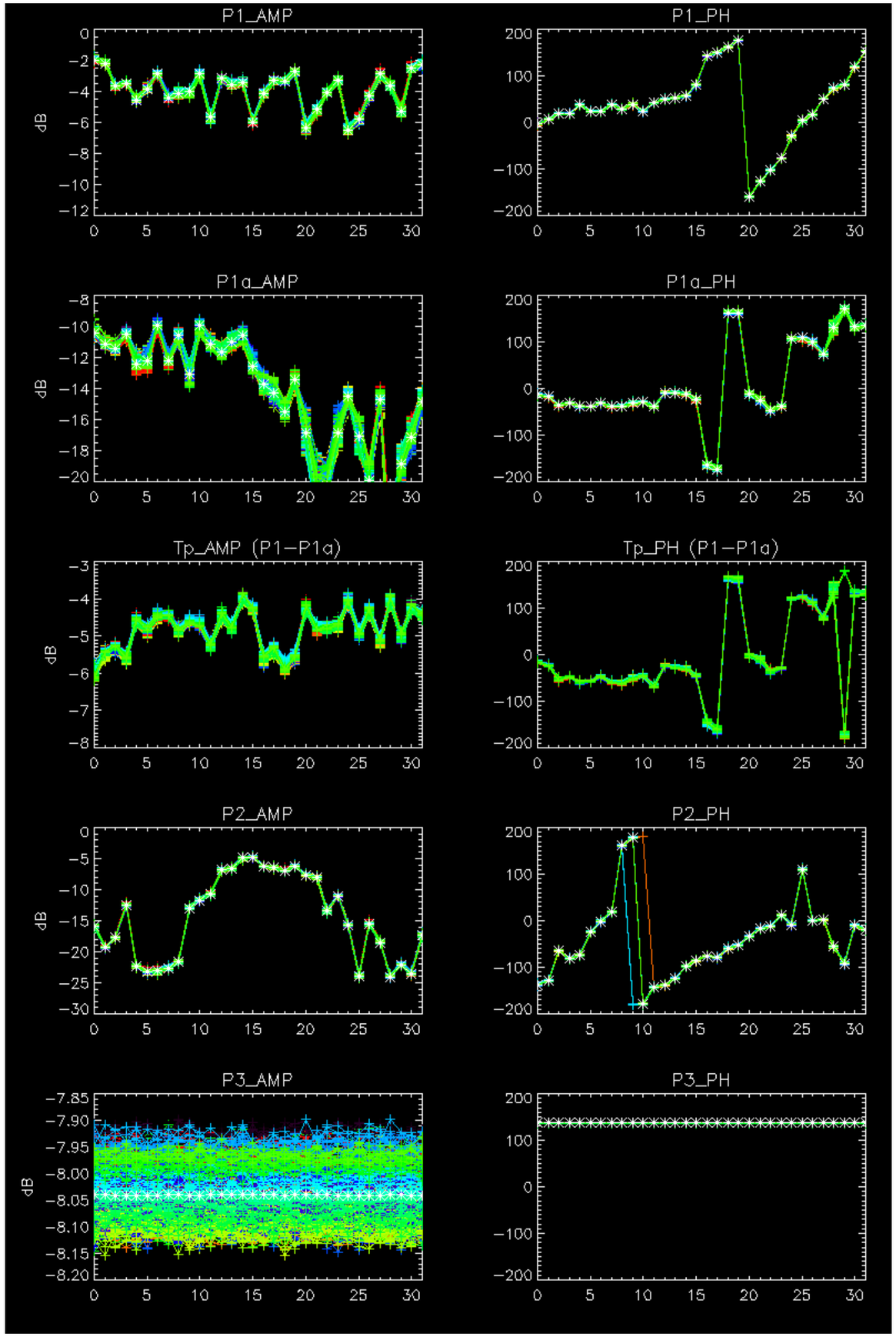

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
11−Sep
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
Average P1a [dB]
0
−10
−20
−30
−40
−50
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

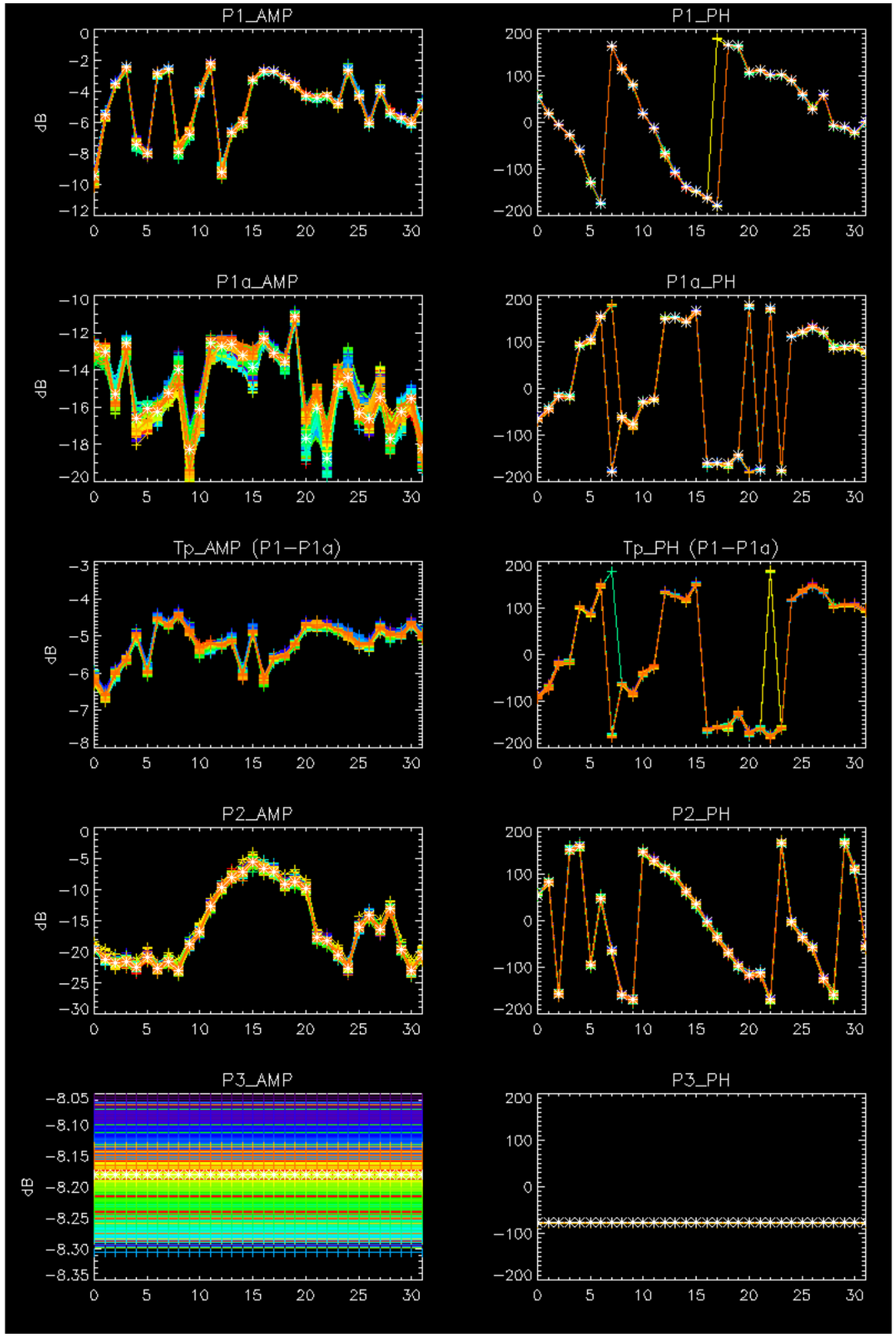

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
08−Oct
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
08−Oct
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
08−Oct
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
08−Oct
rows: _ 3 _ 7 _ 11 _ 15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


Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
06−Sep
11−Sep
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct
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 WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
08−Oct
Average P1a [dB]
−12
−13
−14
−15
−16
−17
−18
18
21
00
03
06
08−Oct
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
08−Oct
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
08−Oct
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

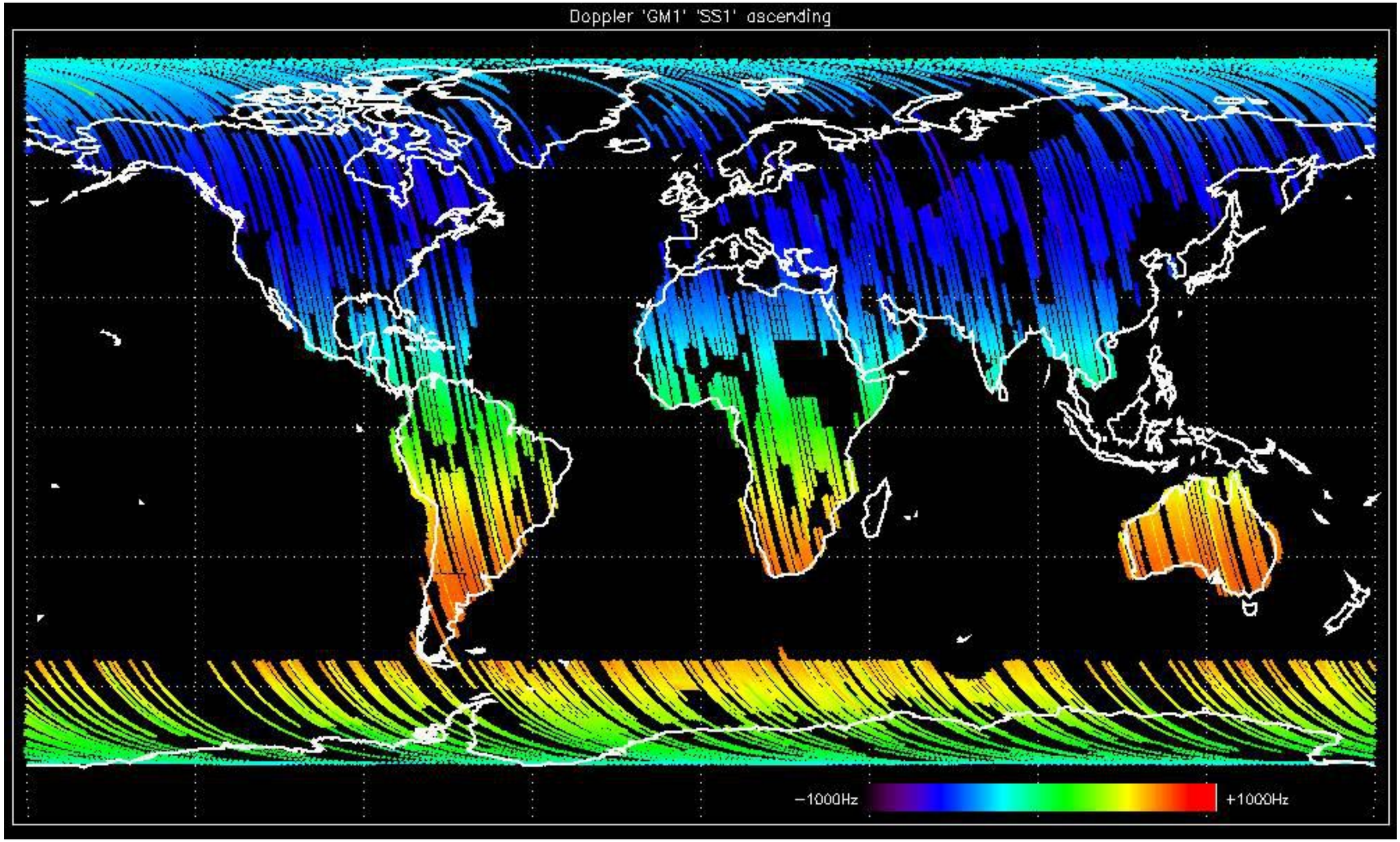
No anomalies observed.

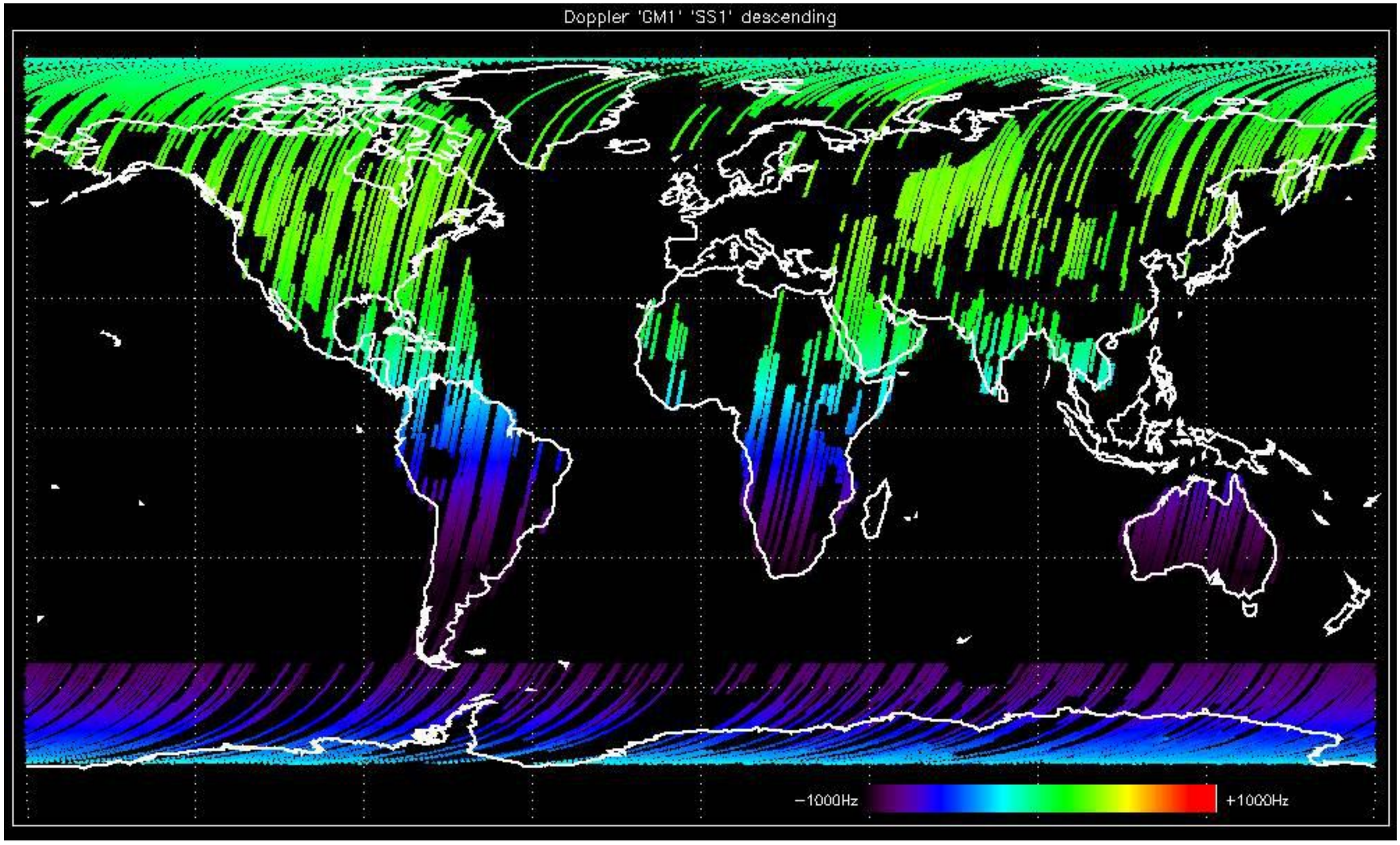

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

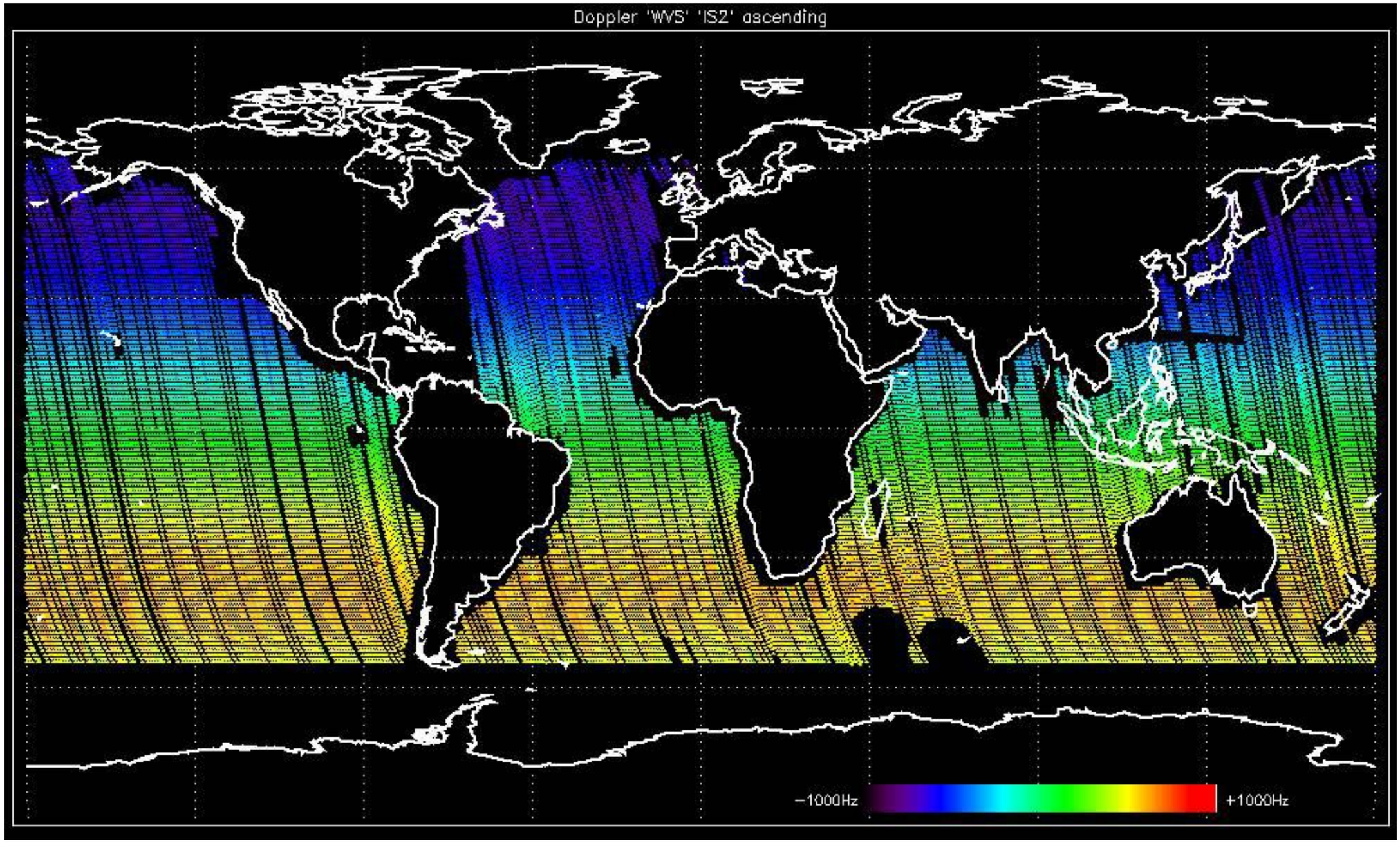

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

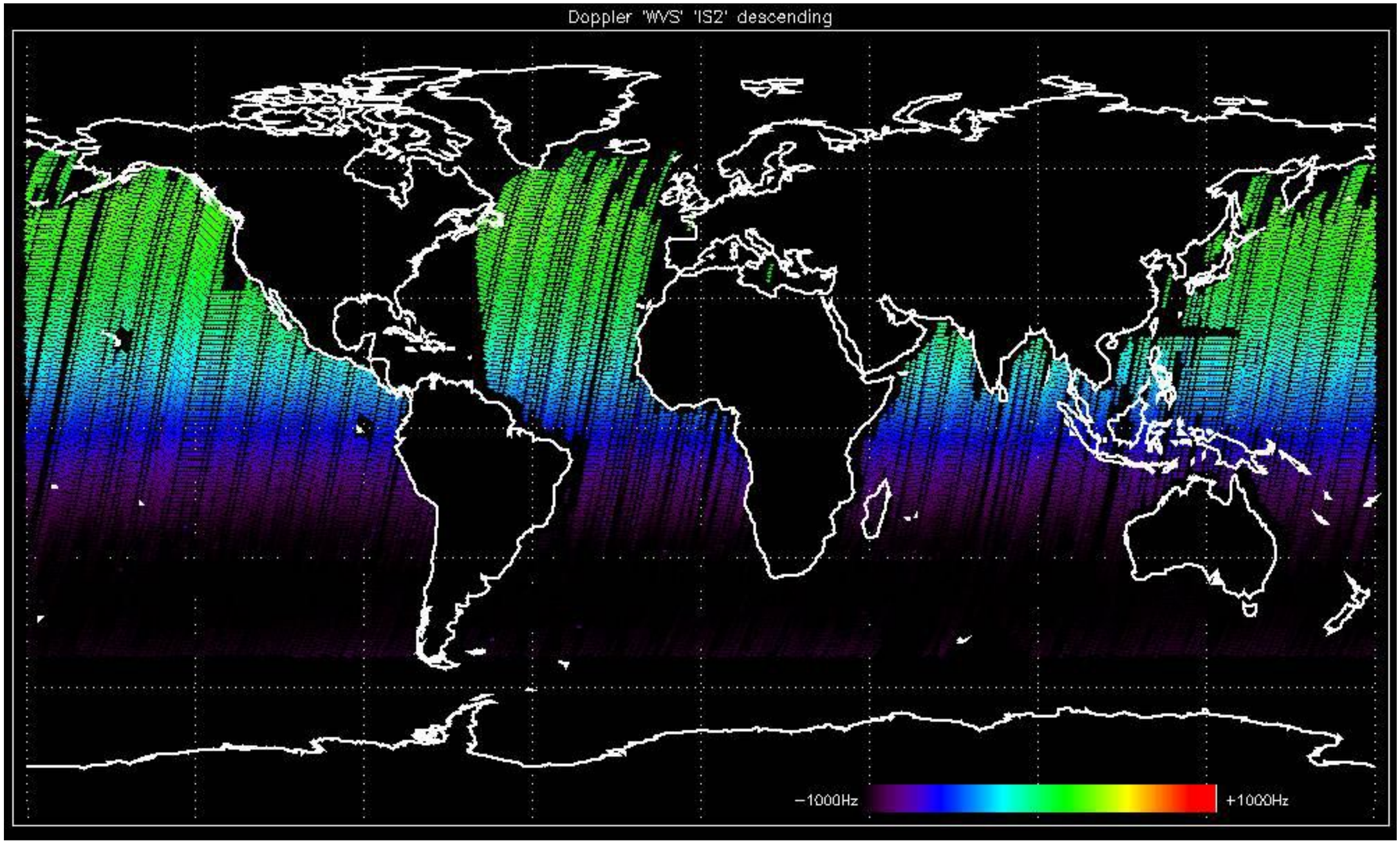
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

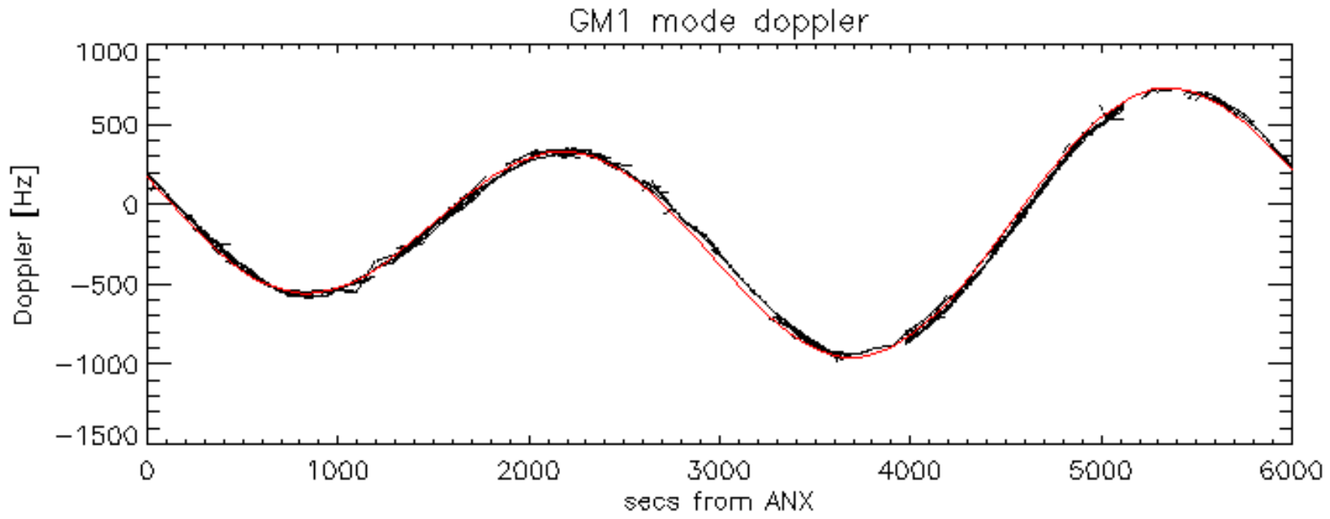
Preliminary report.The data is not yet controled

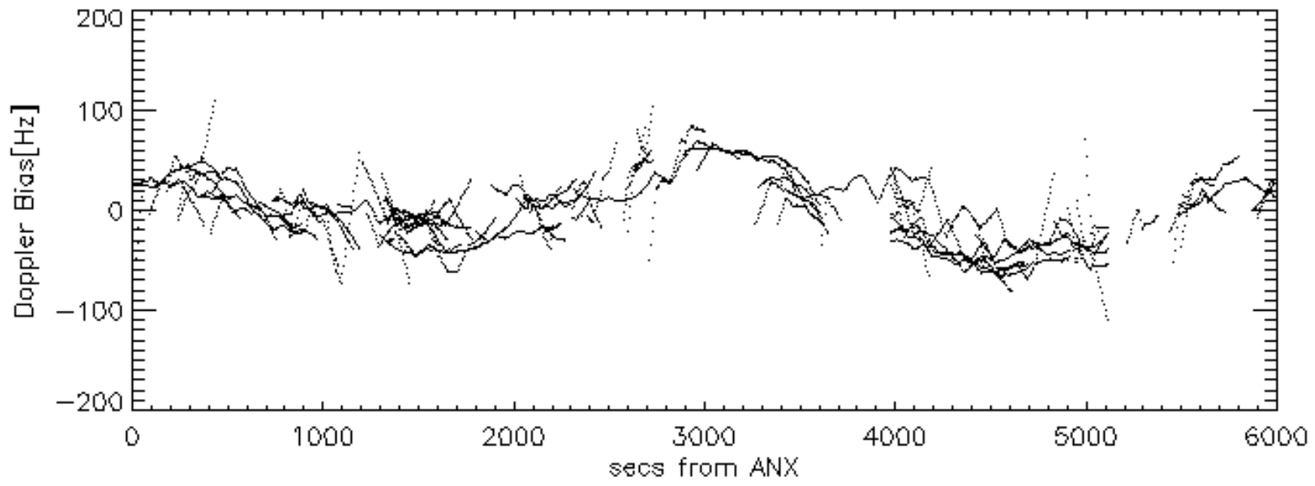

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

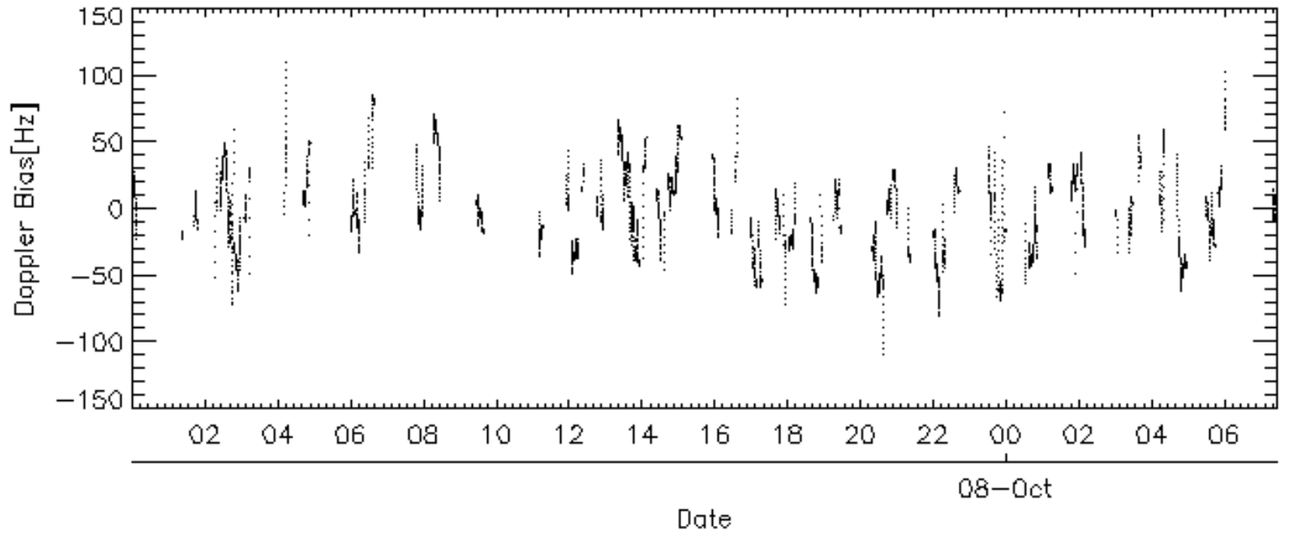

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

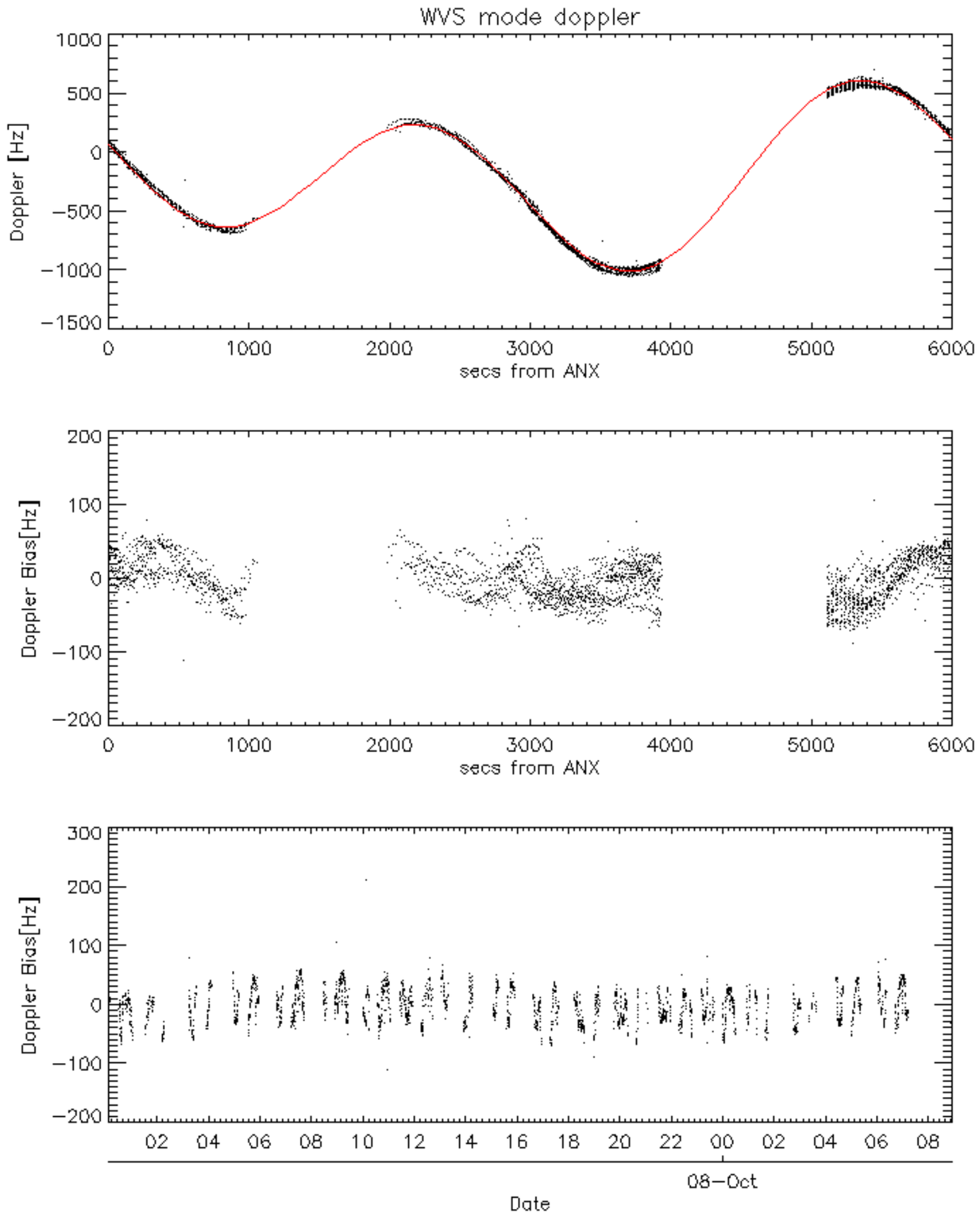

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

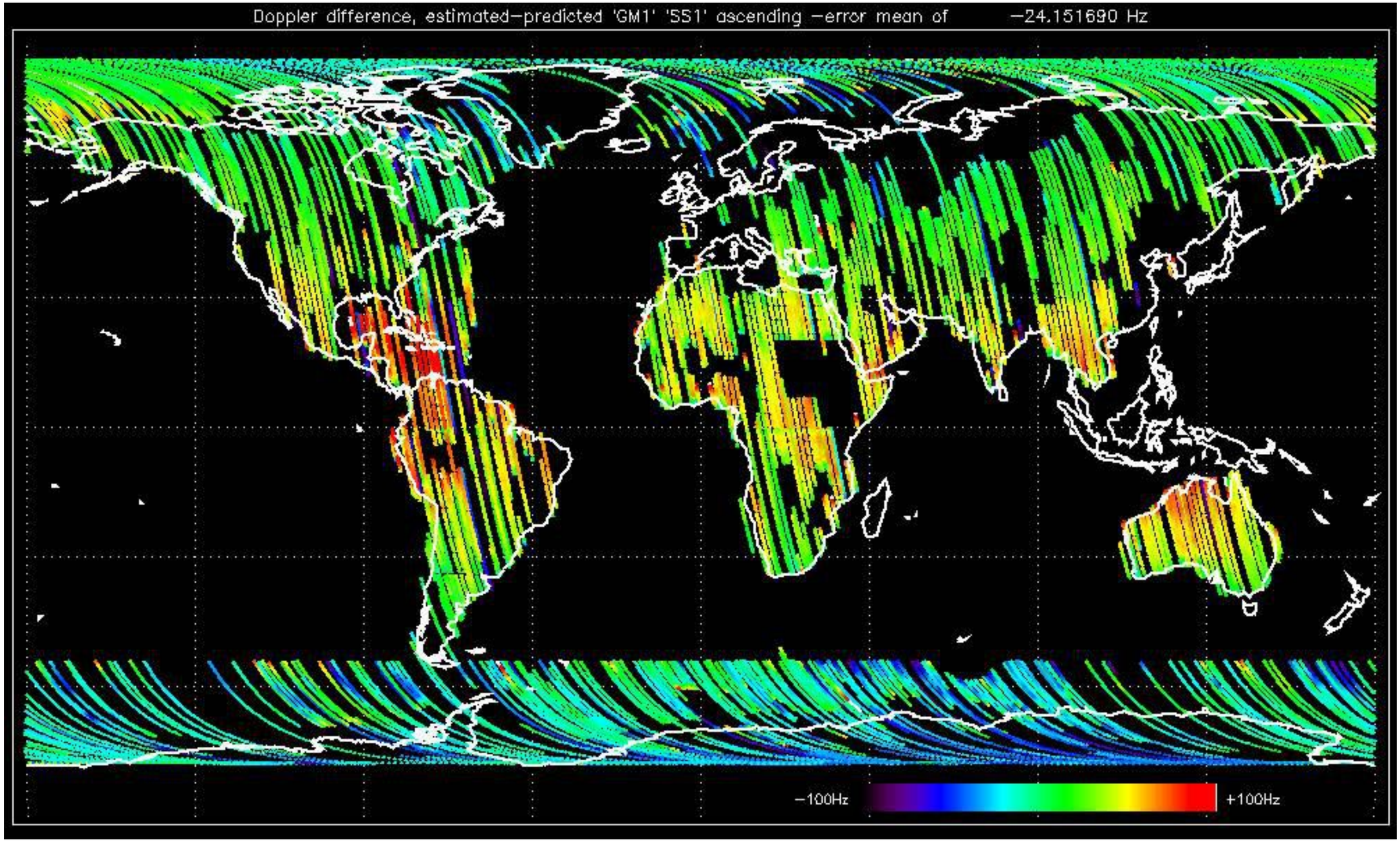

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

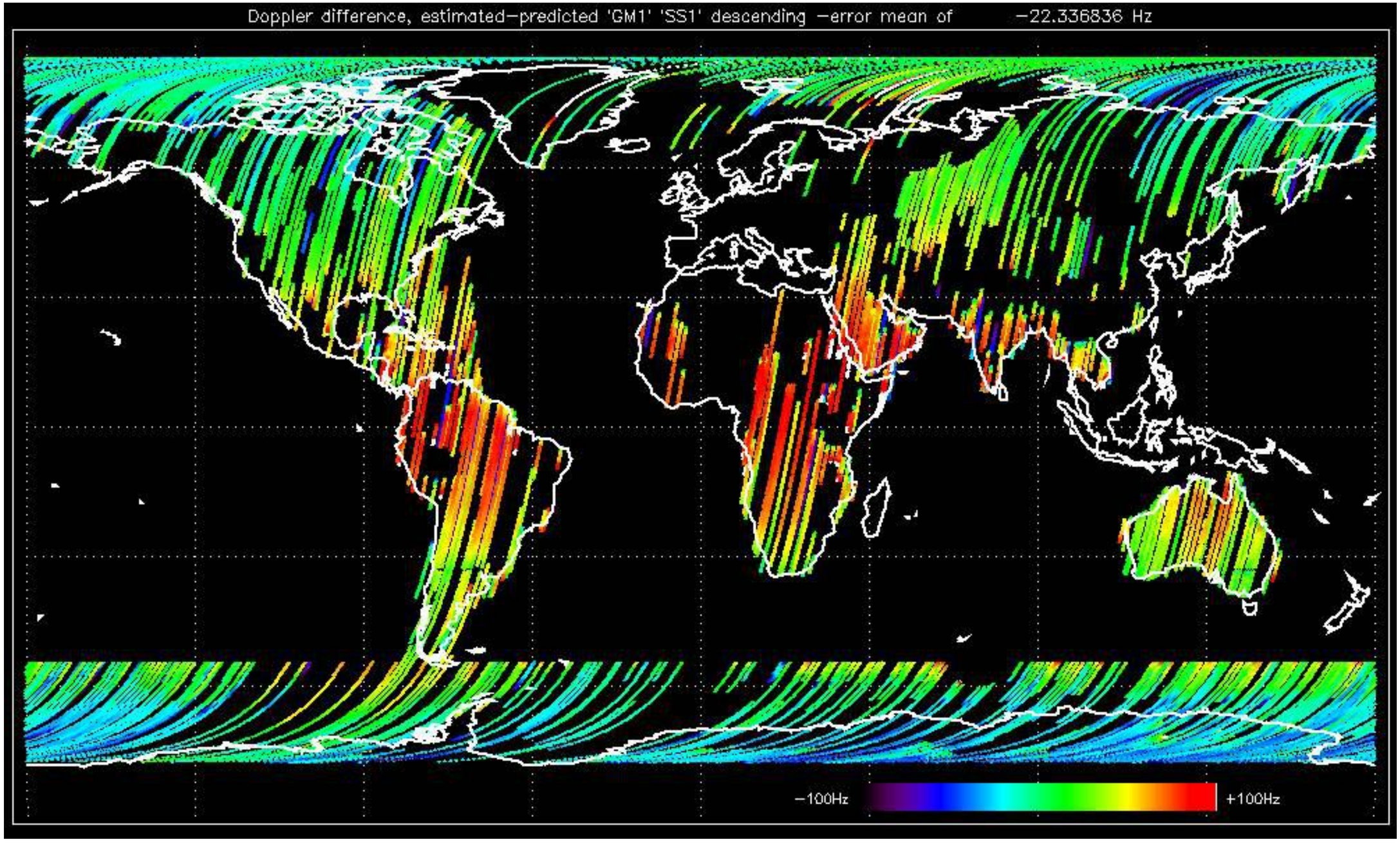

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

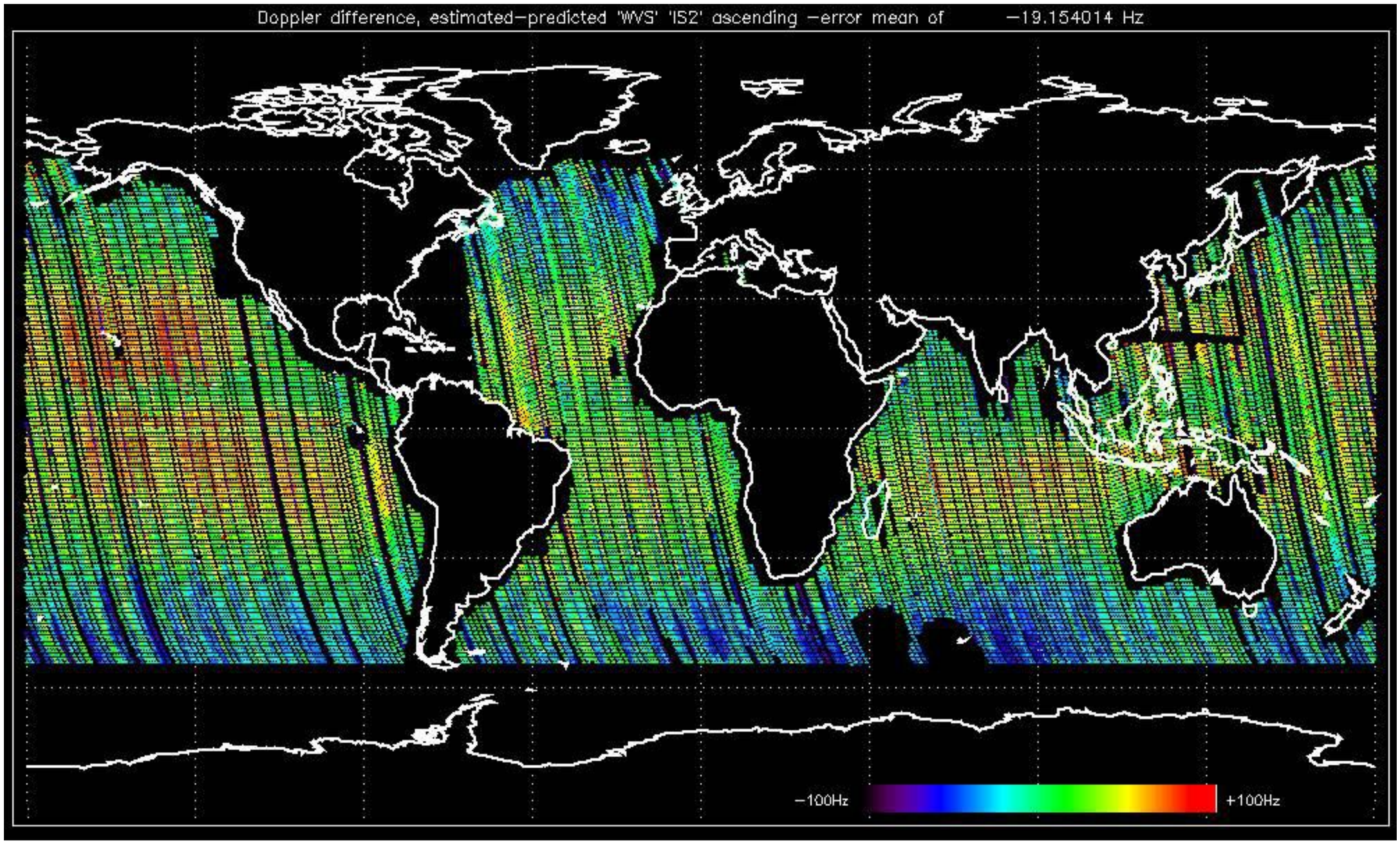

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

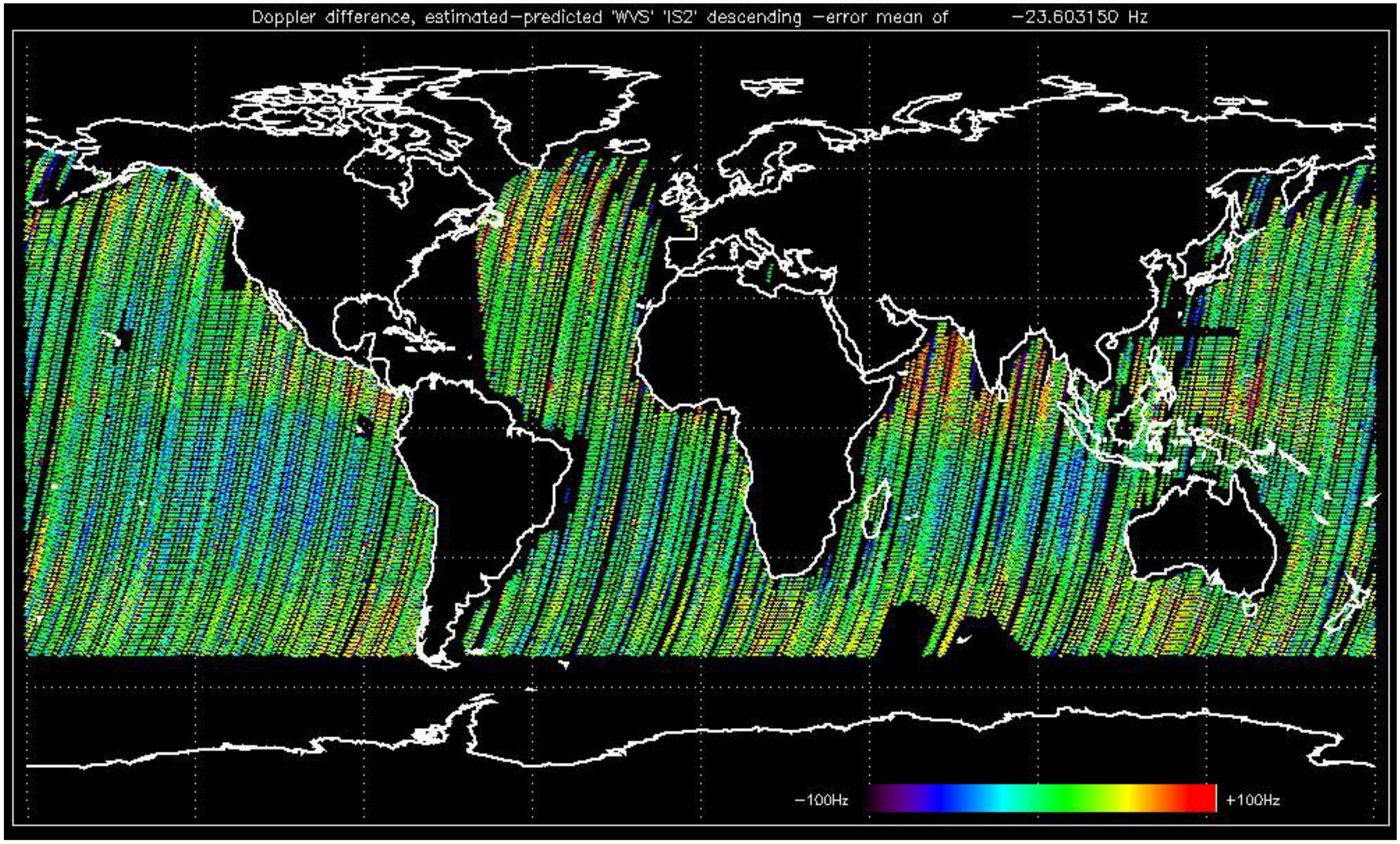

Doppler Bias[Hz]
150
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
08−Oct
Date


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −24.151690 Hz
−100Hz
+100Hz

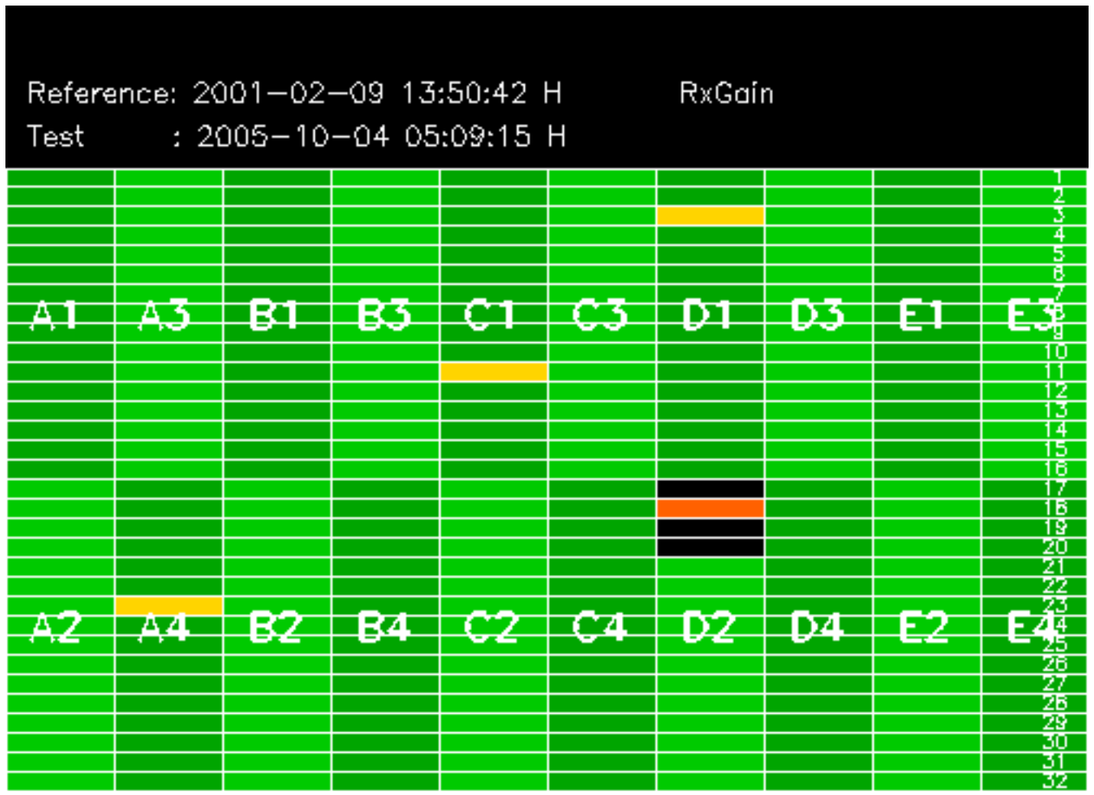

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −22.336836 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −19.154014 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −23.603150 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2005-10-04 05:09:15 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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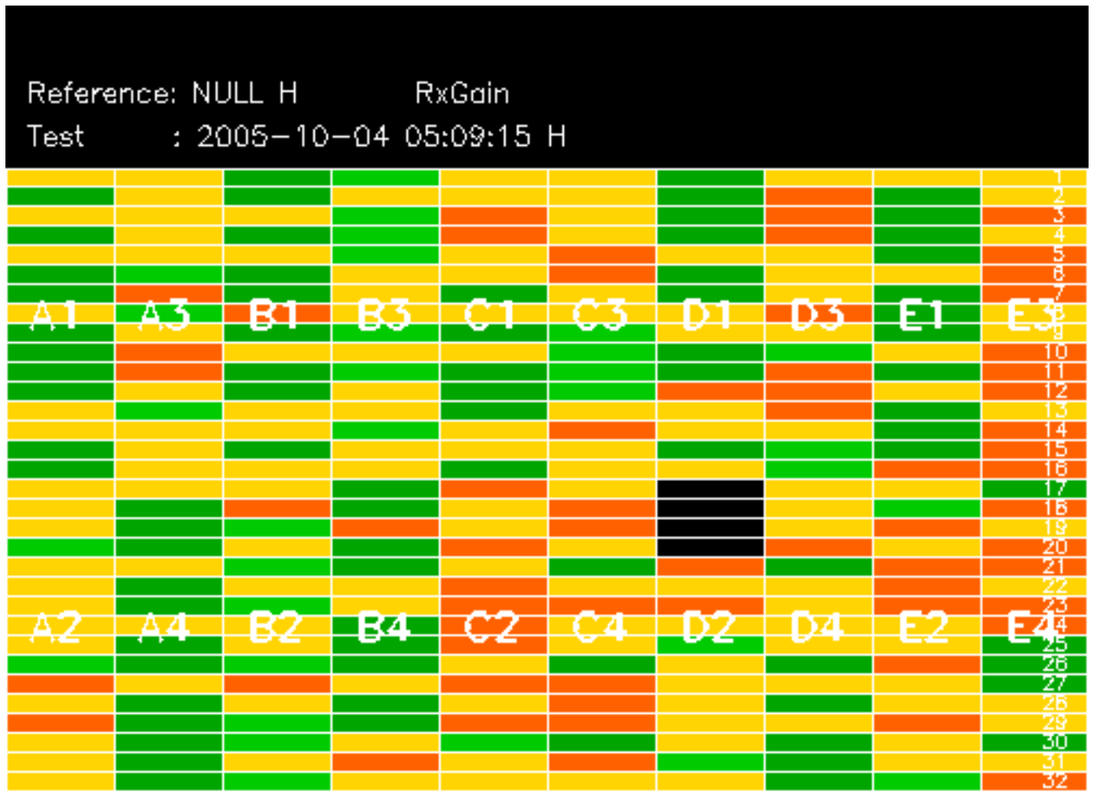
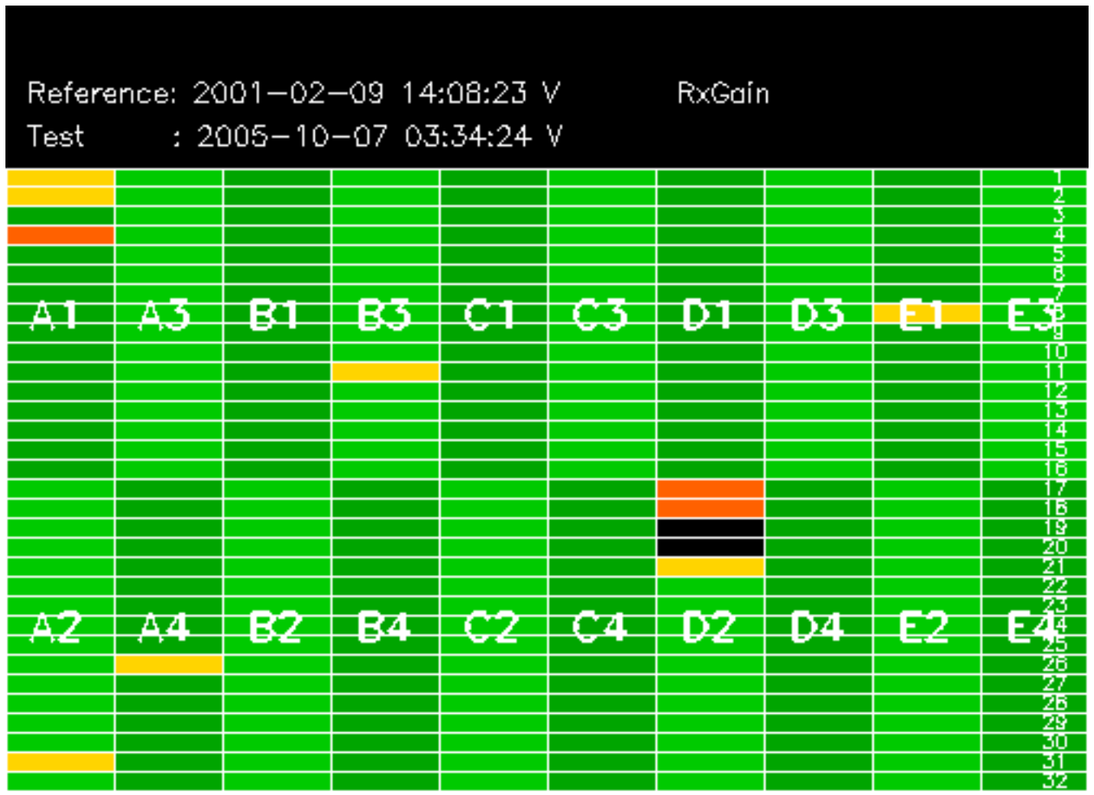

Reference: NULL H RxGain
Test : 2005-10-04 05:09:15 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2005-10-07 03:34:24 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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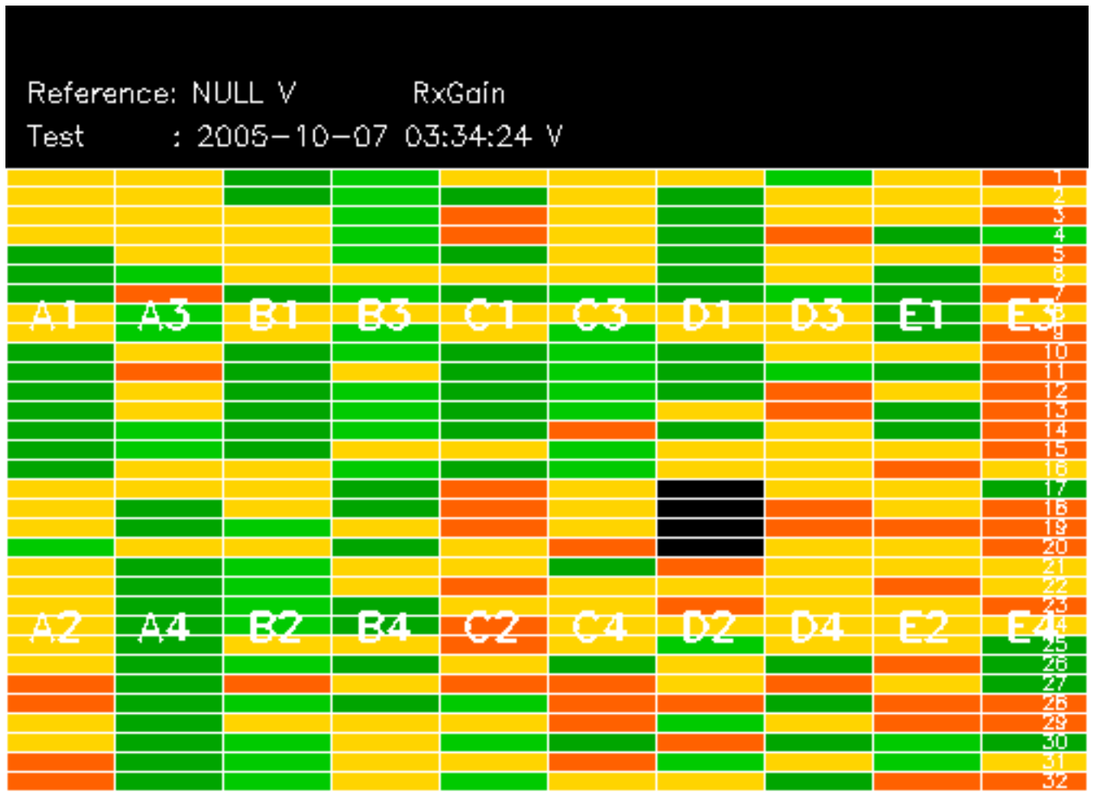
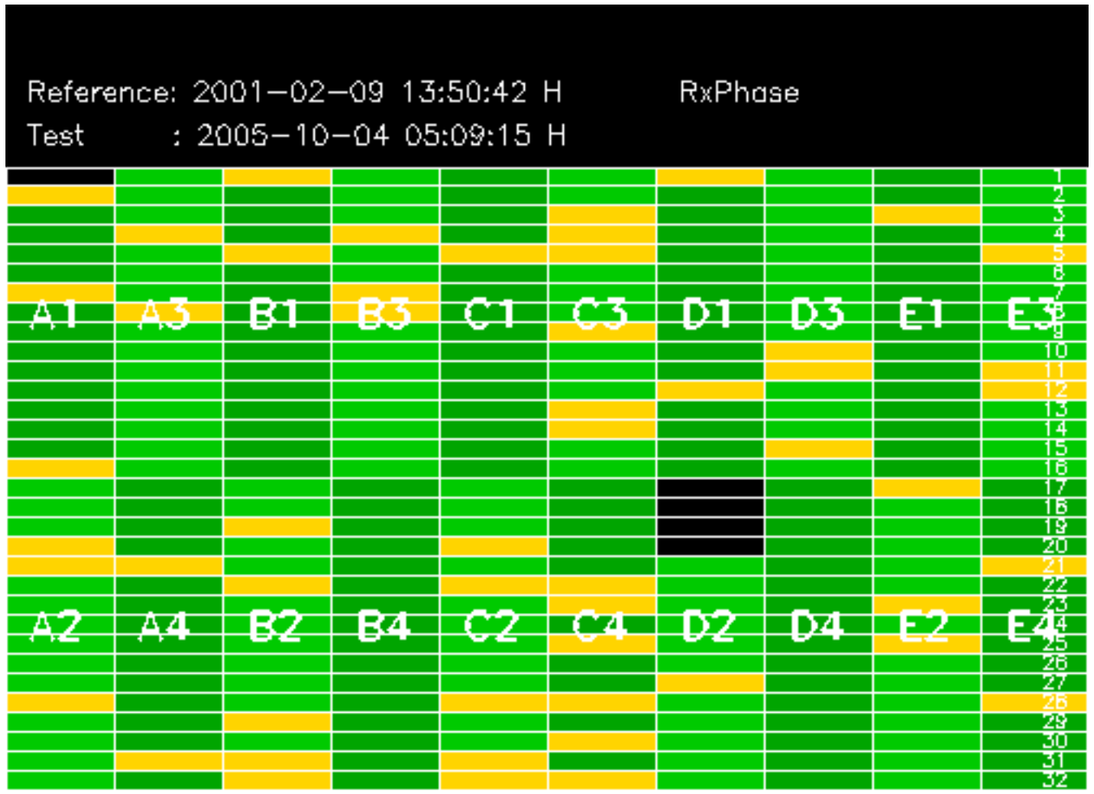
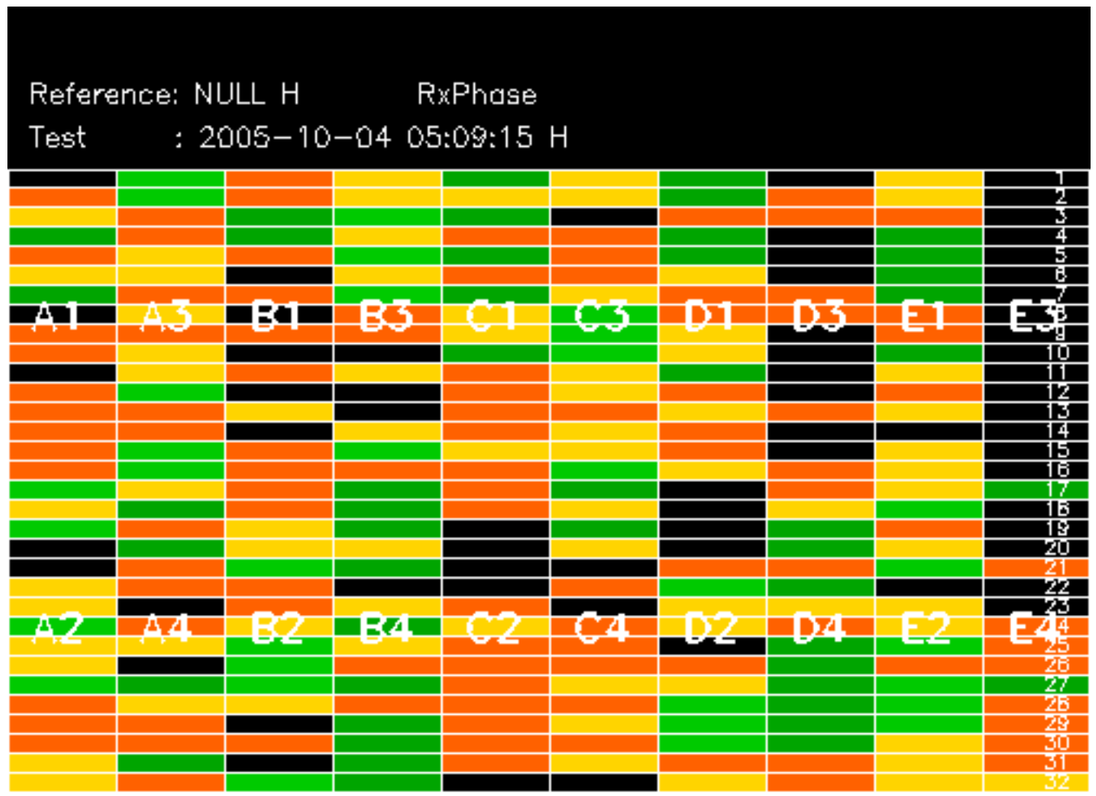

Reference: NULL V RxGain
Test : 2005-10-07 03:34:24 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2005-10-04 05:09:15 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: NULL H RxPhase
Test : 2005-10-04 05:09:15 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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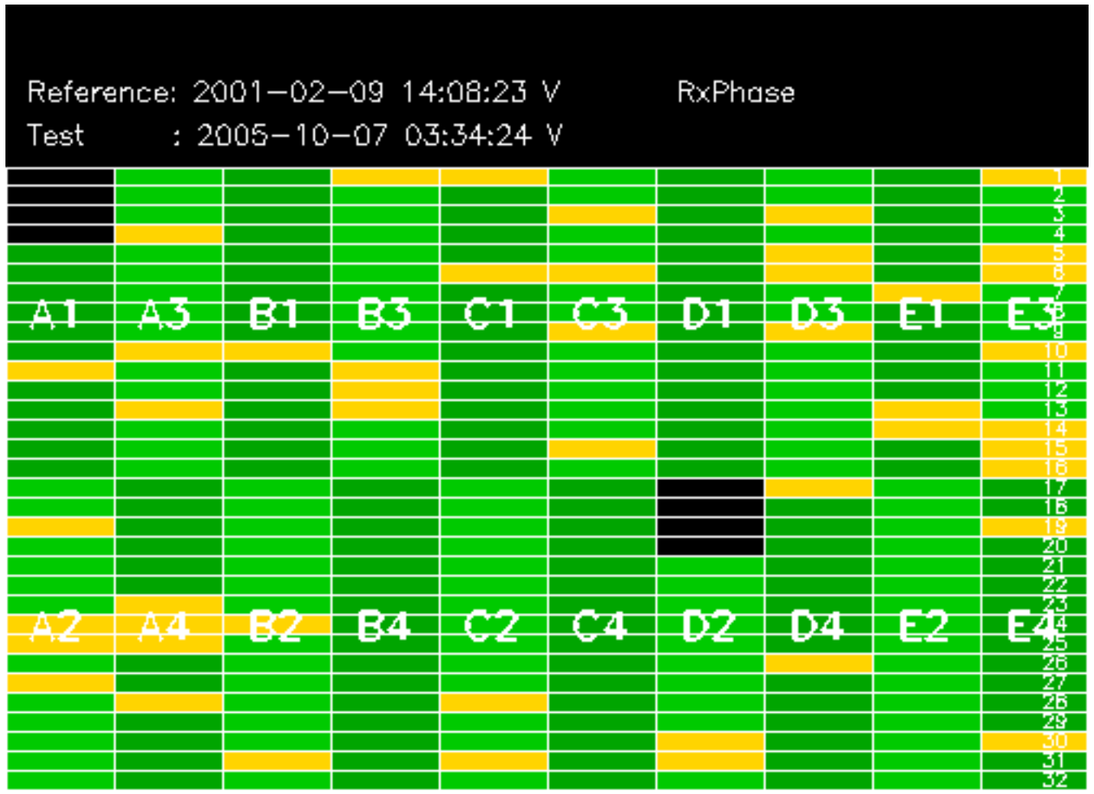
Reference: 2001-02-09 14:08:23 V
Test : 2005-10-07 03:34:24 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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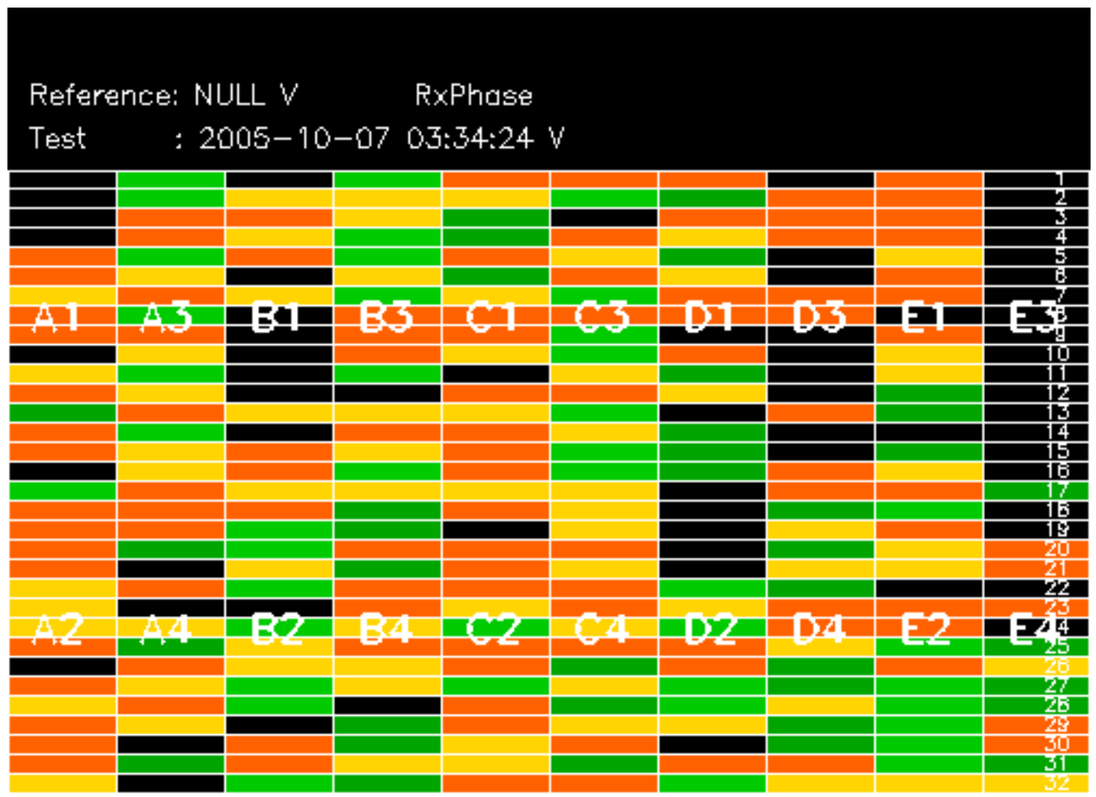
Reference: NULL V RxPhase
Test : 2005-10-07 03:34:24 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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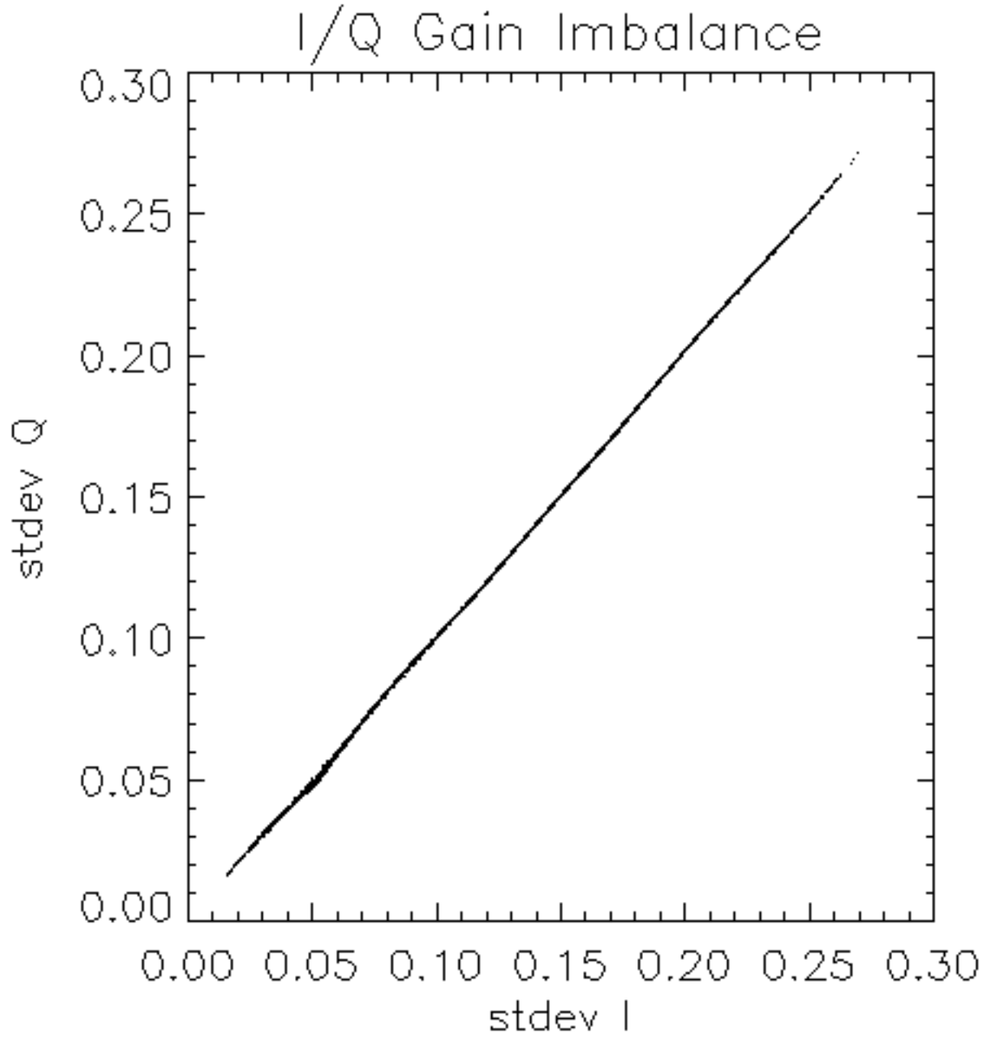
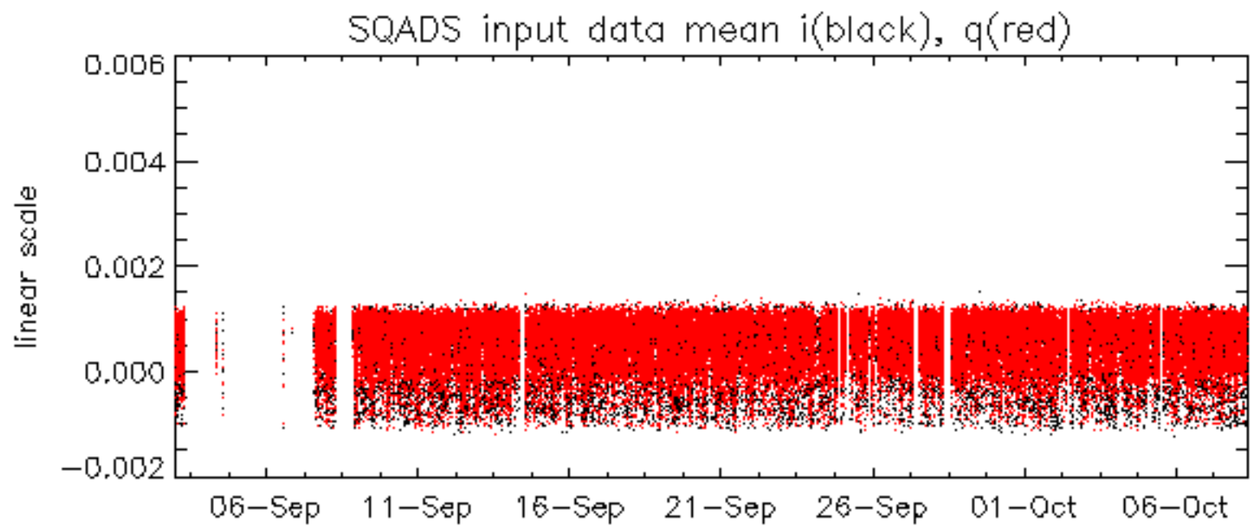
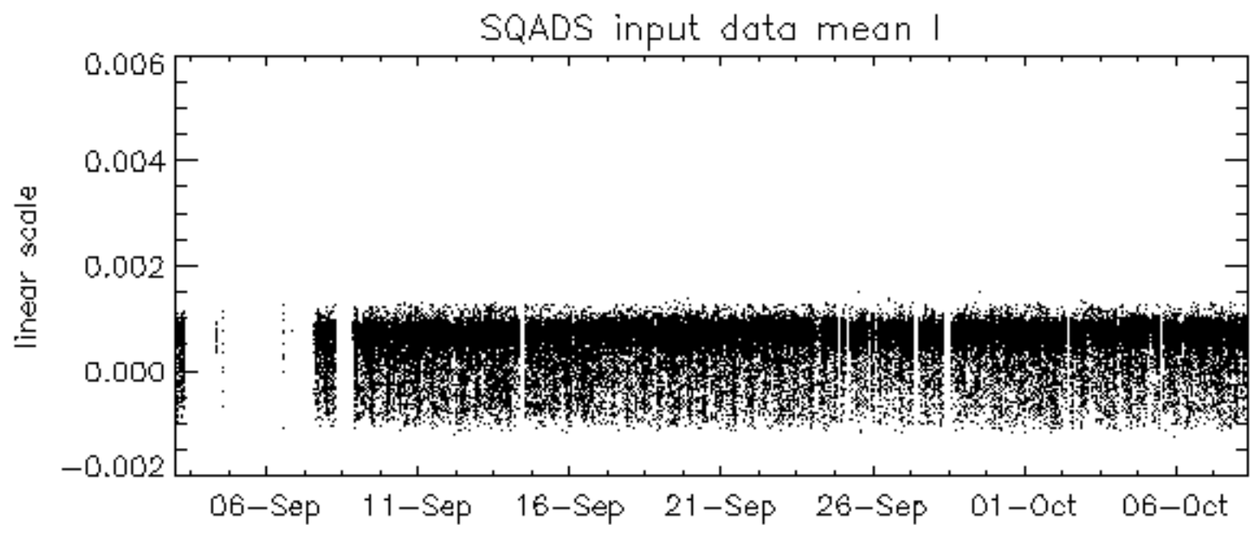
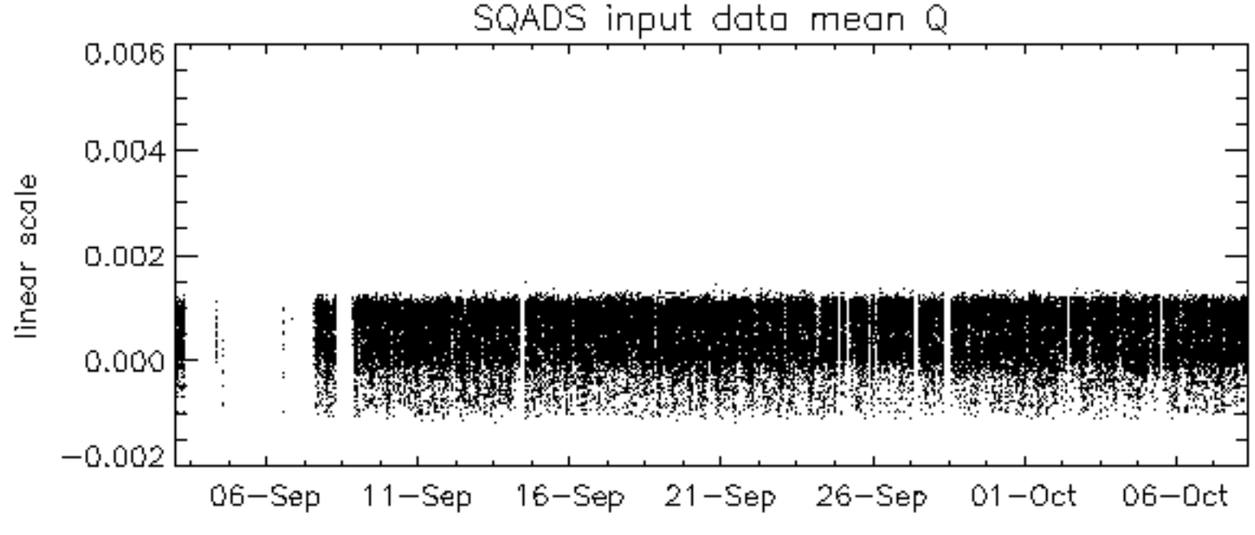
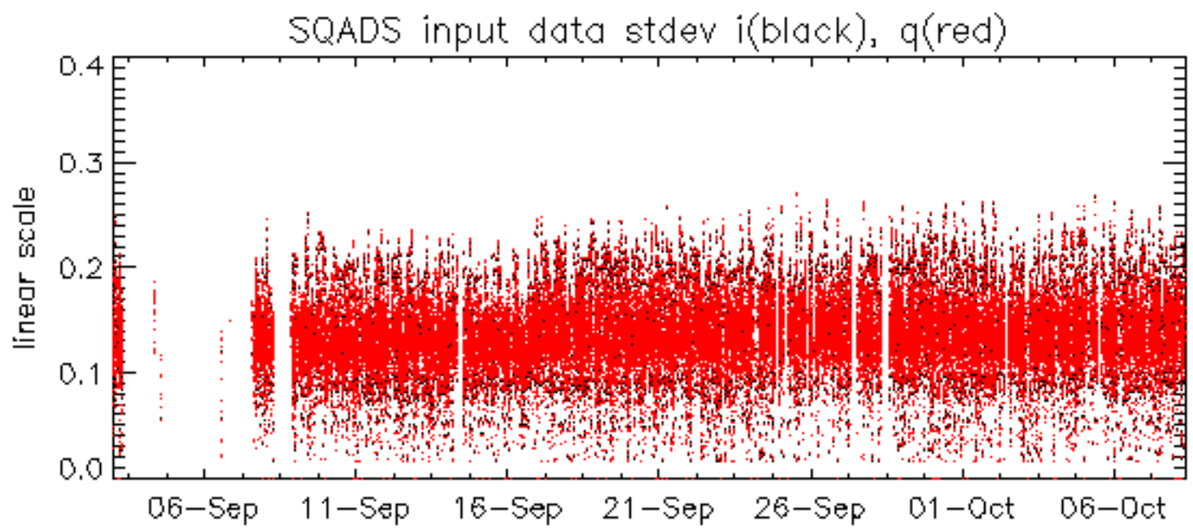
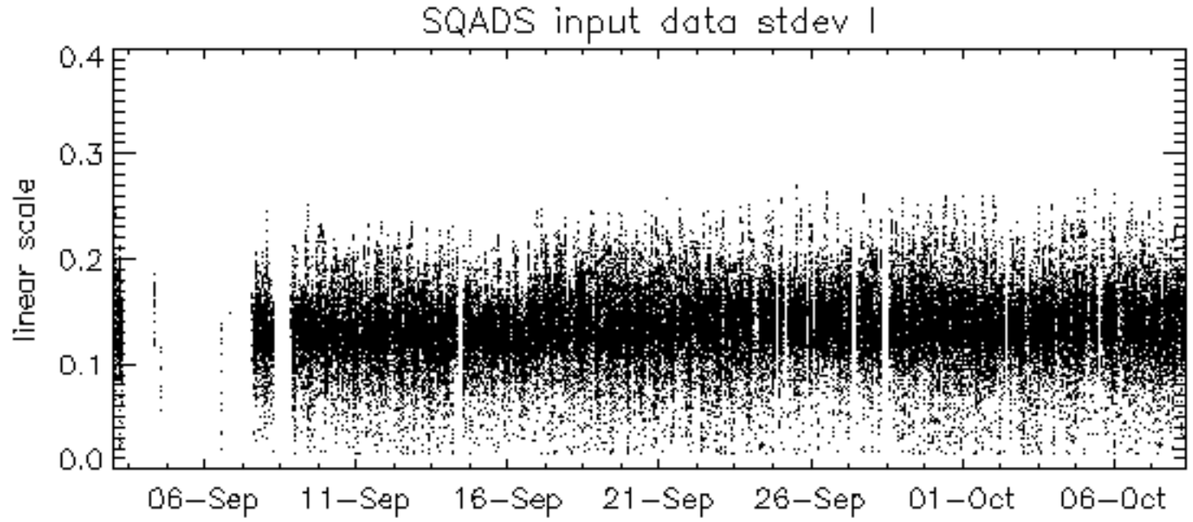

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

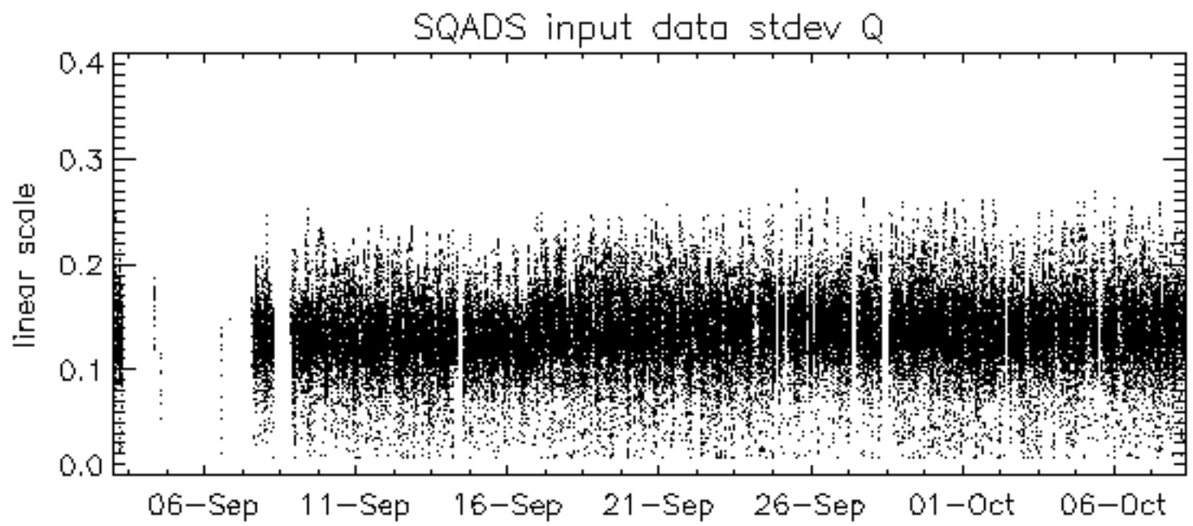

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Sep
11−Sep
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct

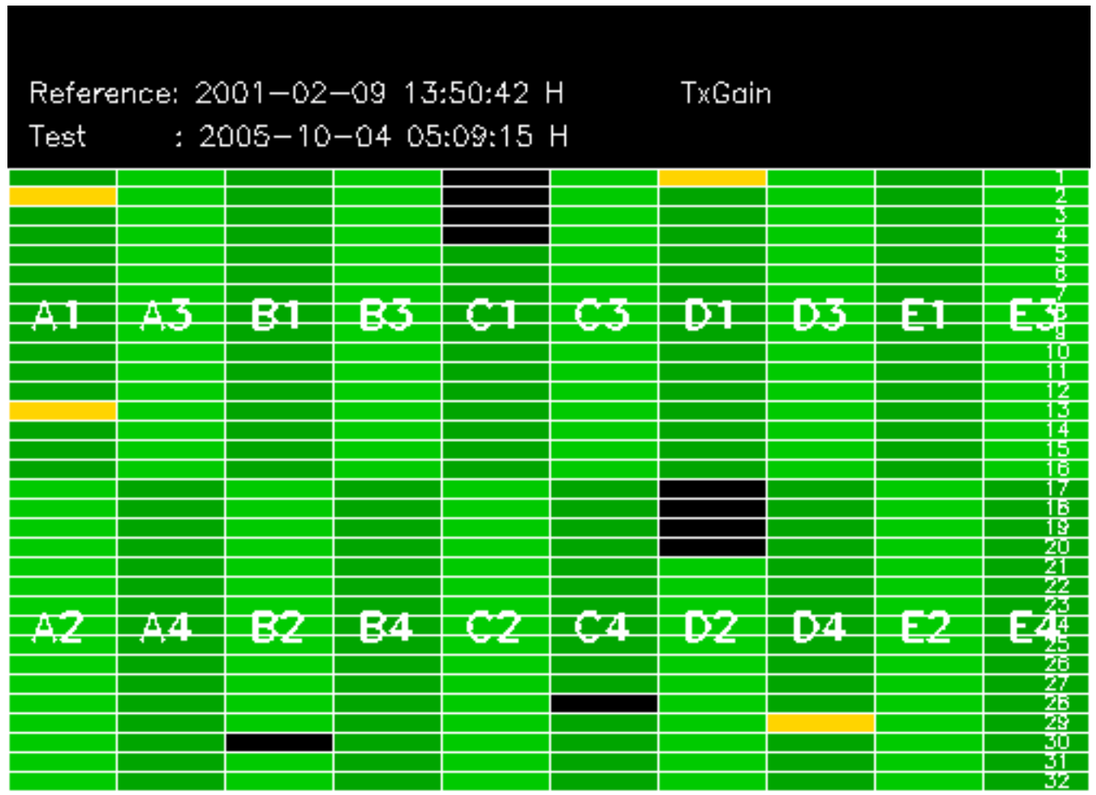

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
06−Sep
11−Sep
16−Sep
21−Sep
26−Sep
01−Oct
06−Oct


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2005-10-04 05:09:15 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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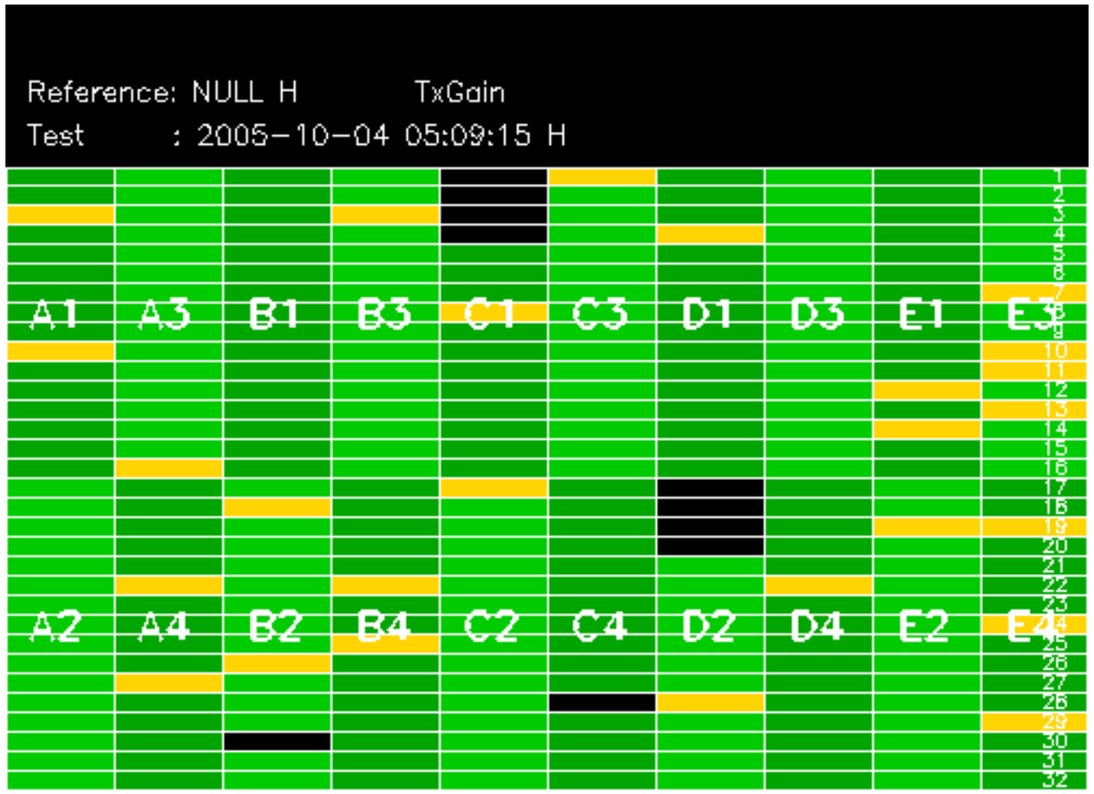
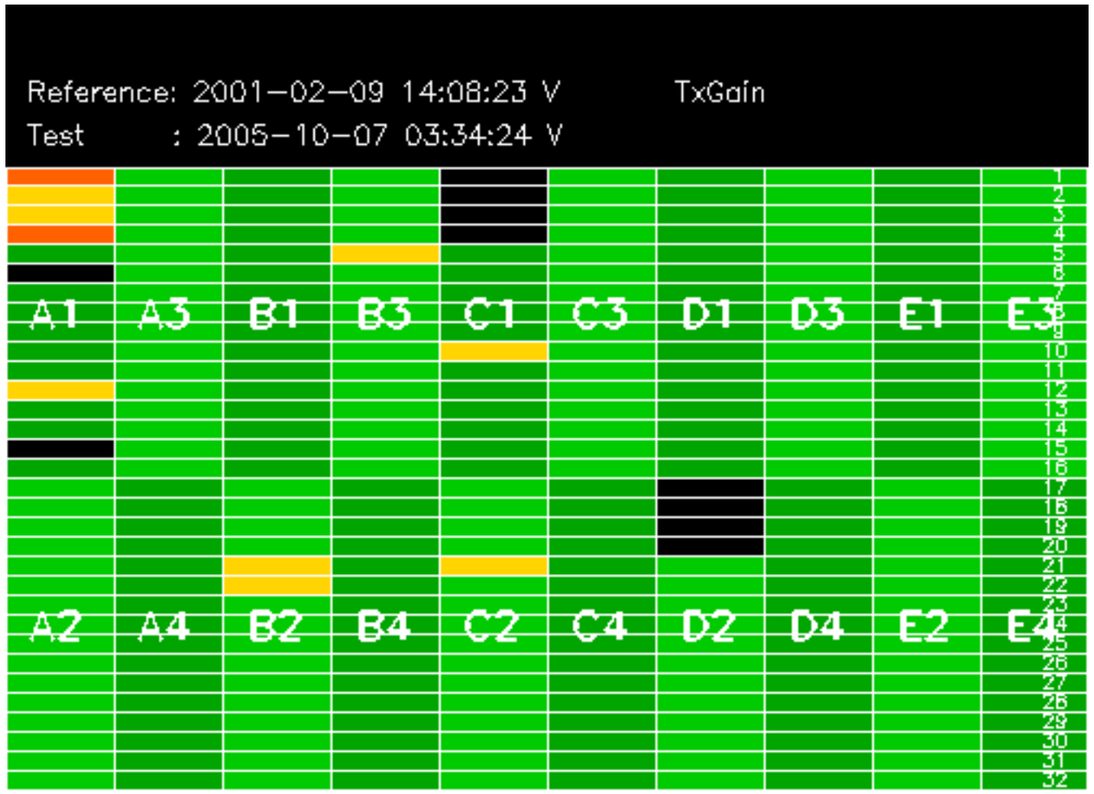

Reference: NULL H TxGain
Test : 2005-10-04 05:09:15 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2005-10-07 03:34:24 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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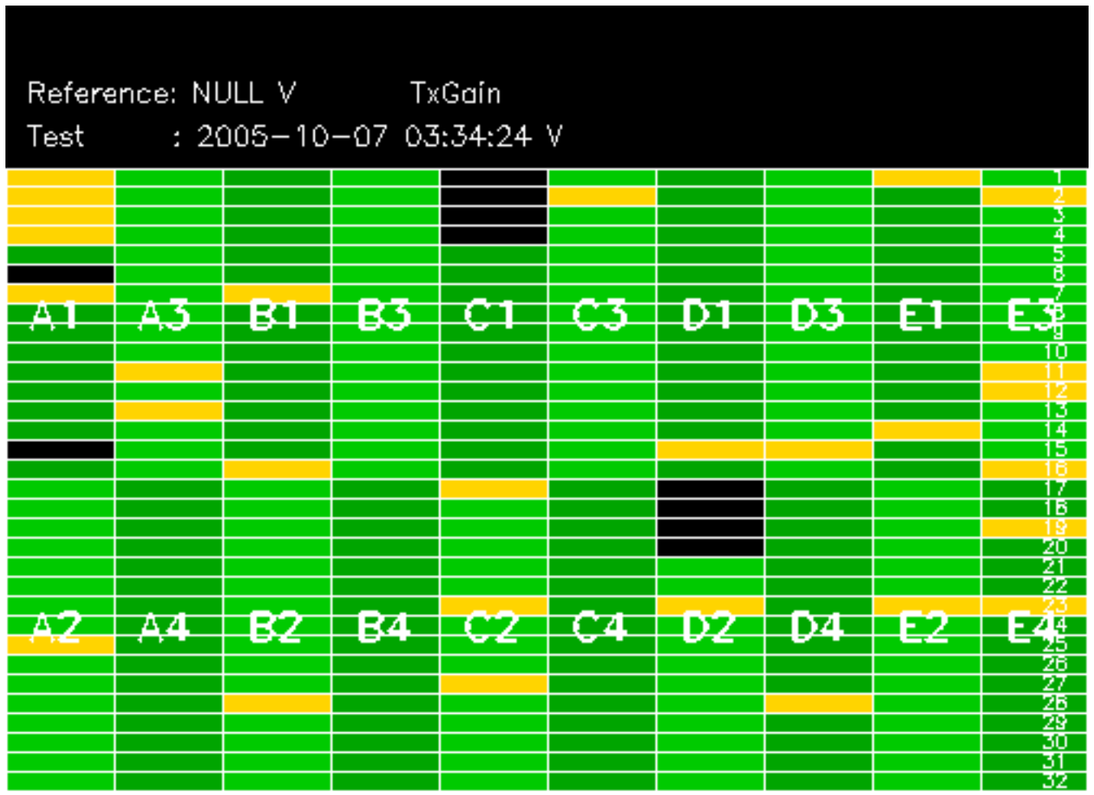
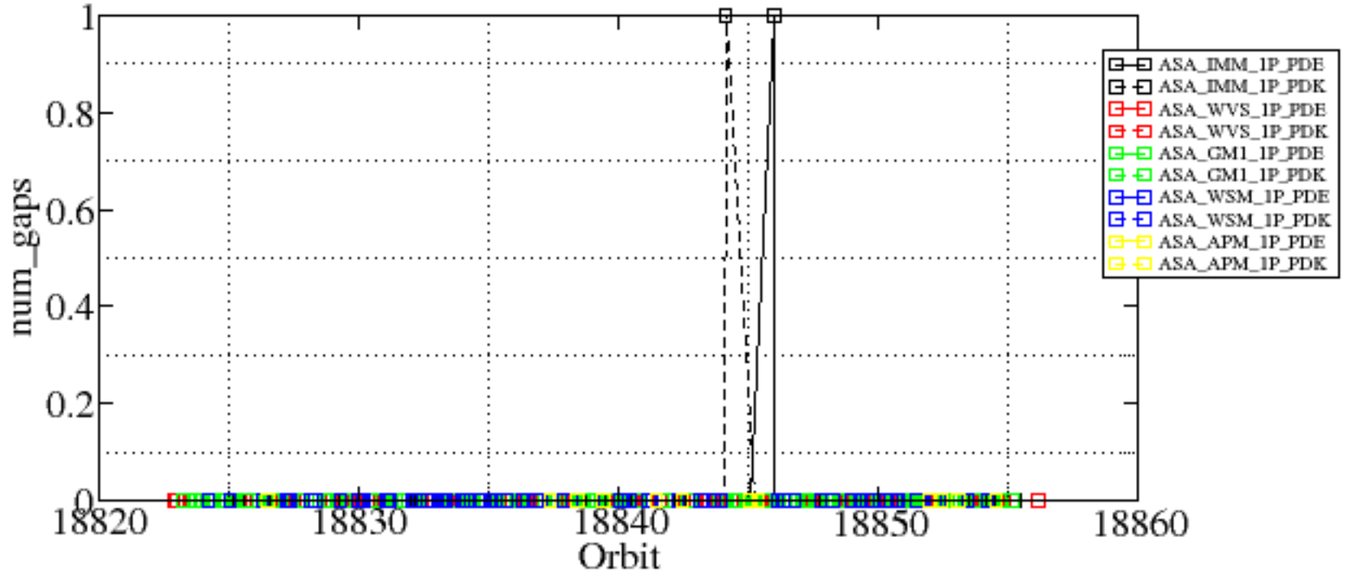
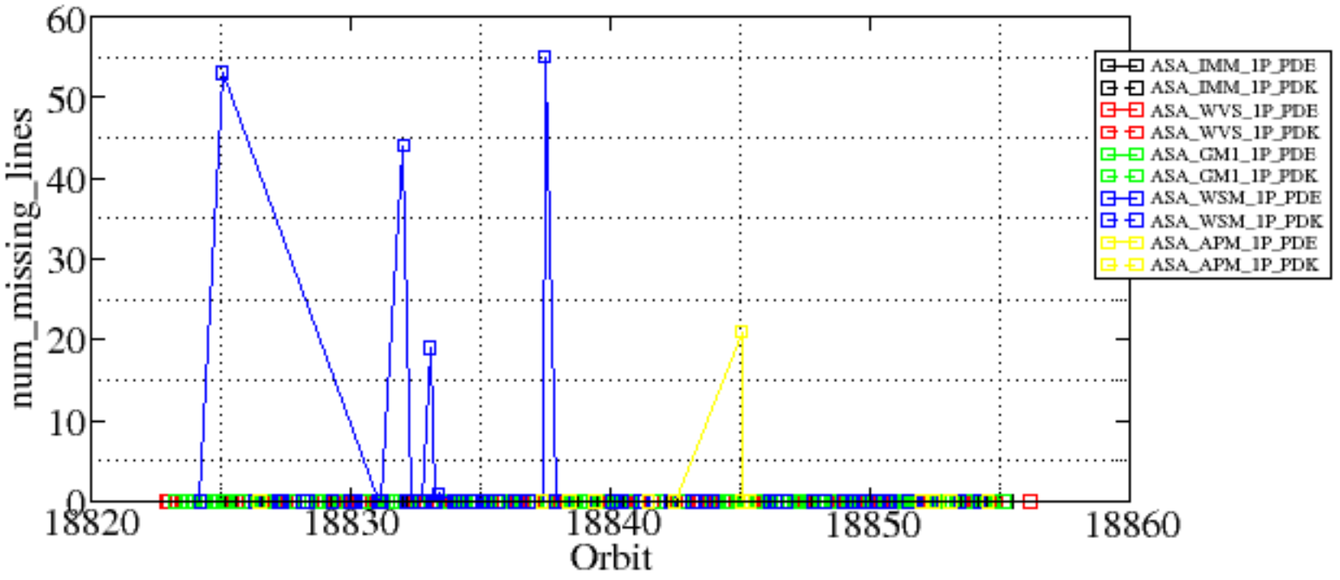
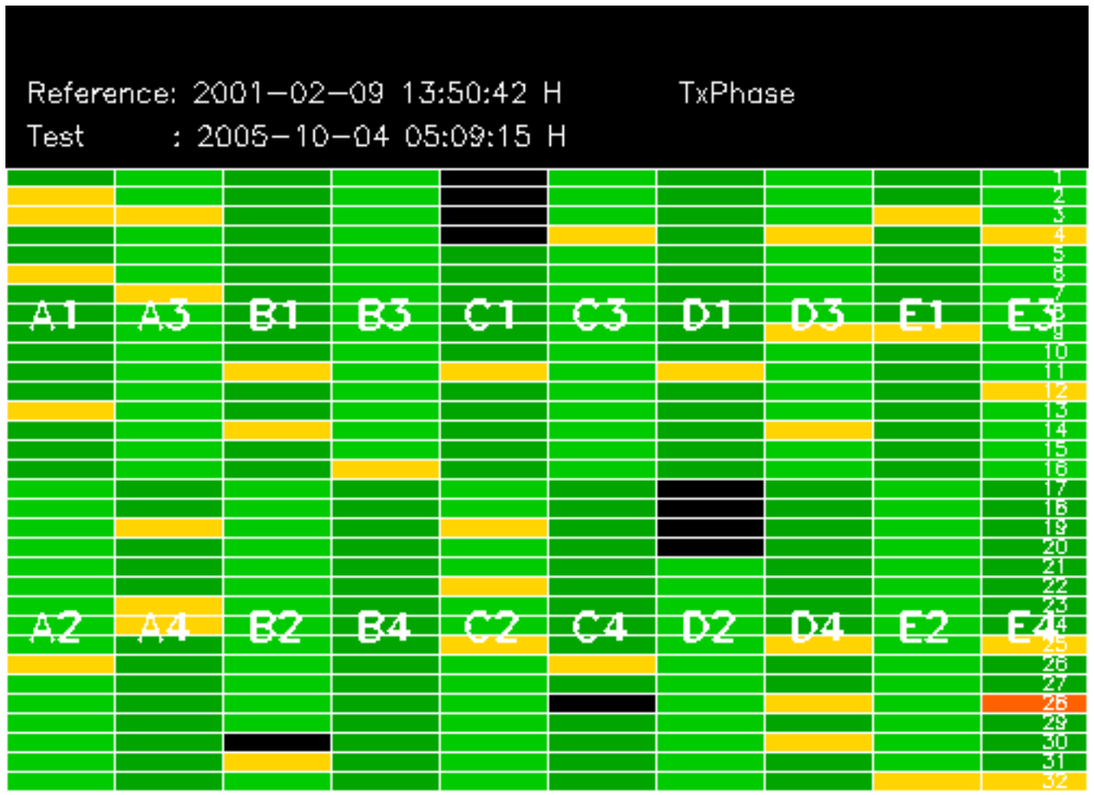

Reference: NULL V TxGain
Test : 2005-10-07 03:34:24 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

Summary of analysis for the last 3 days 2005100[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_IMM_1PNPDE20051007_155150_000000772041_00255_18846_7711.N1	1	0
ASA_IMM_1PNPDK20051007_124322_000000532041_00253_18844_5323.N1	1	0
ASA_WSM_1PNPDE20051006_044316_000003062041_00234_18825_2610.N1	0	53
ASA_WSM_1PNPDE20051006_162645_000001762041_00241_18832_2652.N1	0	44
ASA_WSM_1PNPDE20051006_180926_000001832041_00242_18833_2673.N1	0	19
ASA_WSM_1PNPDE20051006_184205_000000852041_00242_18833_2698.N1	0	1
ASA_WSM_1PNPDE20051007_013227_000002392041_00246_18837_2779.N1	0	55
ASA_APM_1PNPDE20051007_141715_000000822041_00254_18845_1696.N1	0	21


num_gaps
Orbit
1
0.8
0.6
0.4
0.2
0
18820
18830
18840
18850
18860
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
60
50
40
30
20
10
0
18820
18830
18840
18850
18860
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 : 2005-10-04 05:09:15 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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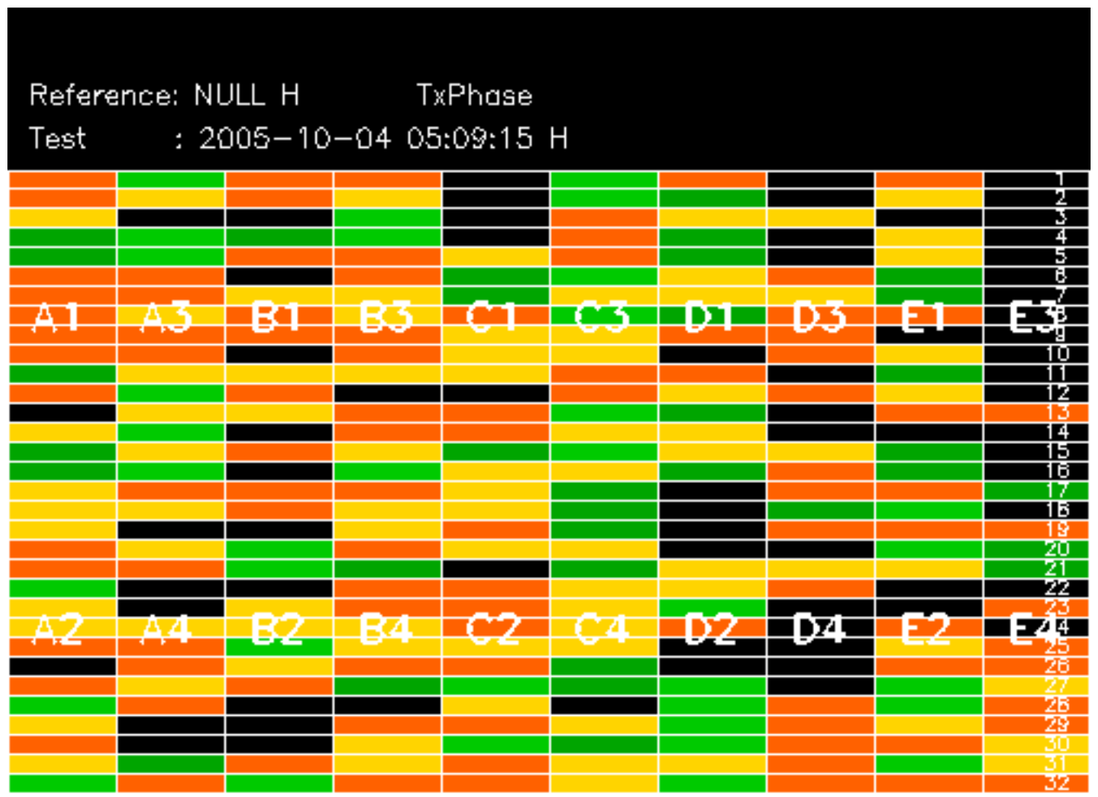
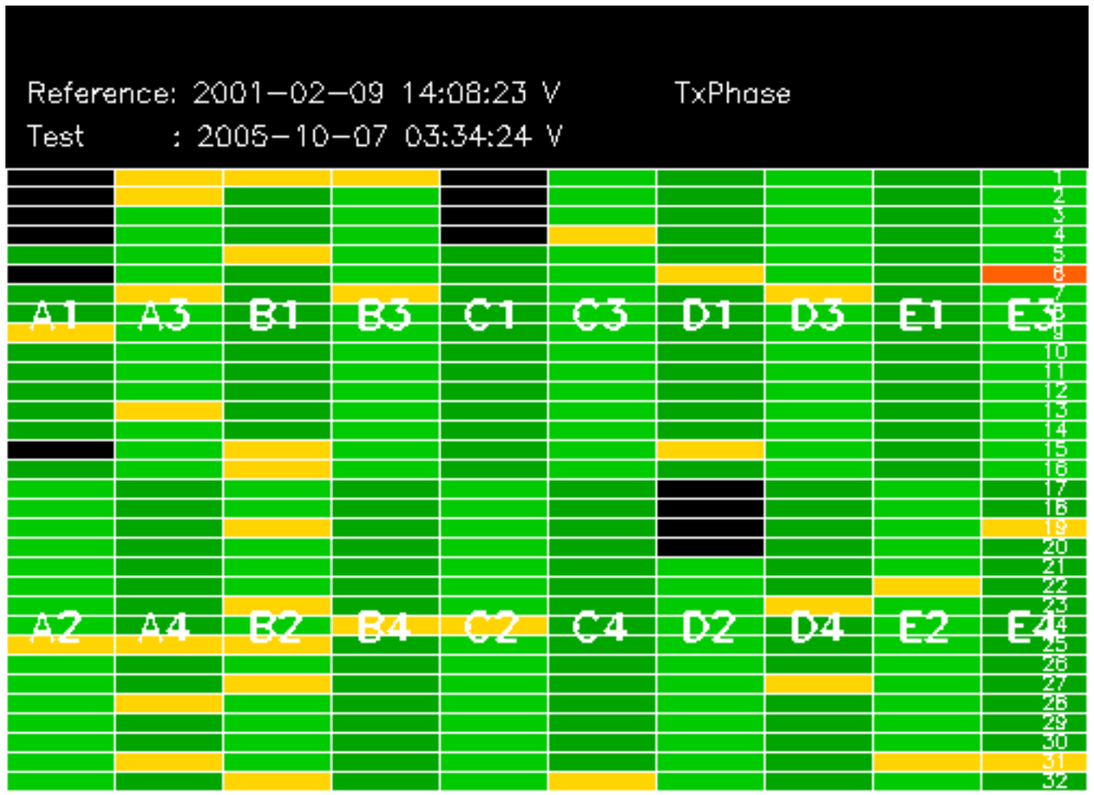
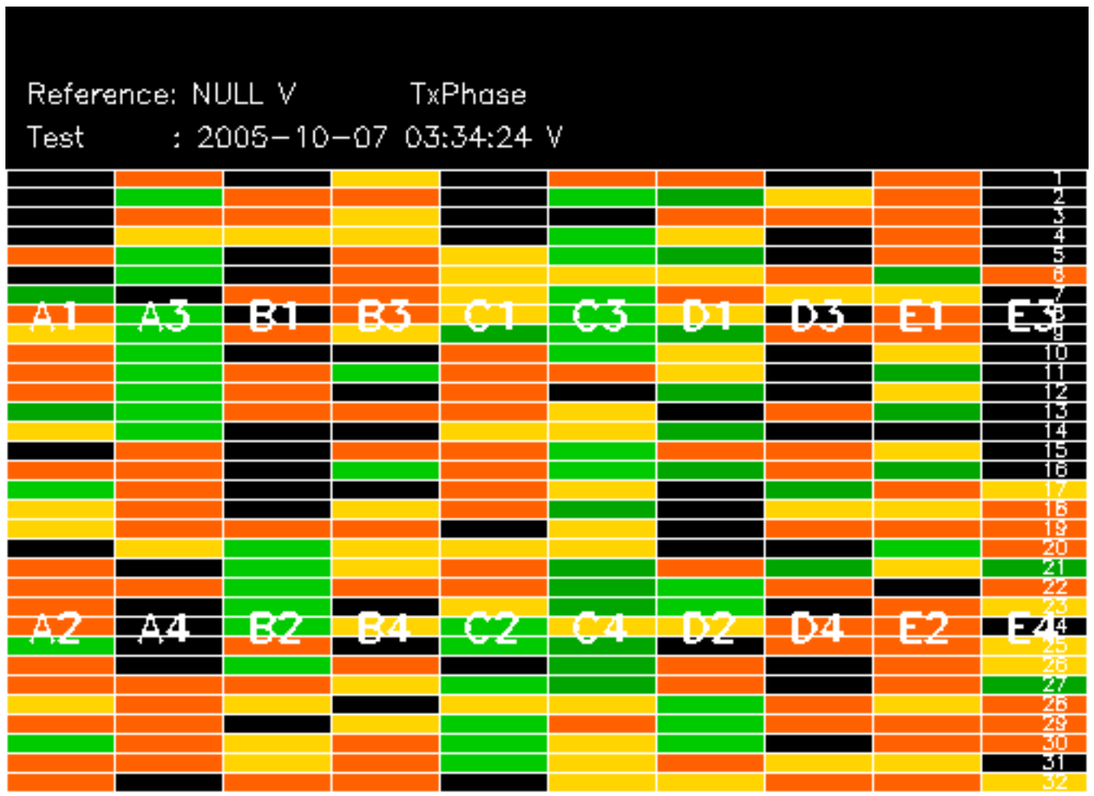

Reference: NULL H TxPhase
Test : 2005-10-04 05:09:15 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2005-10-07 03:34:24 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: NULL V TxPhase
Test : 2005-10-07 03:34:24 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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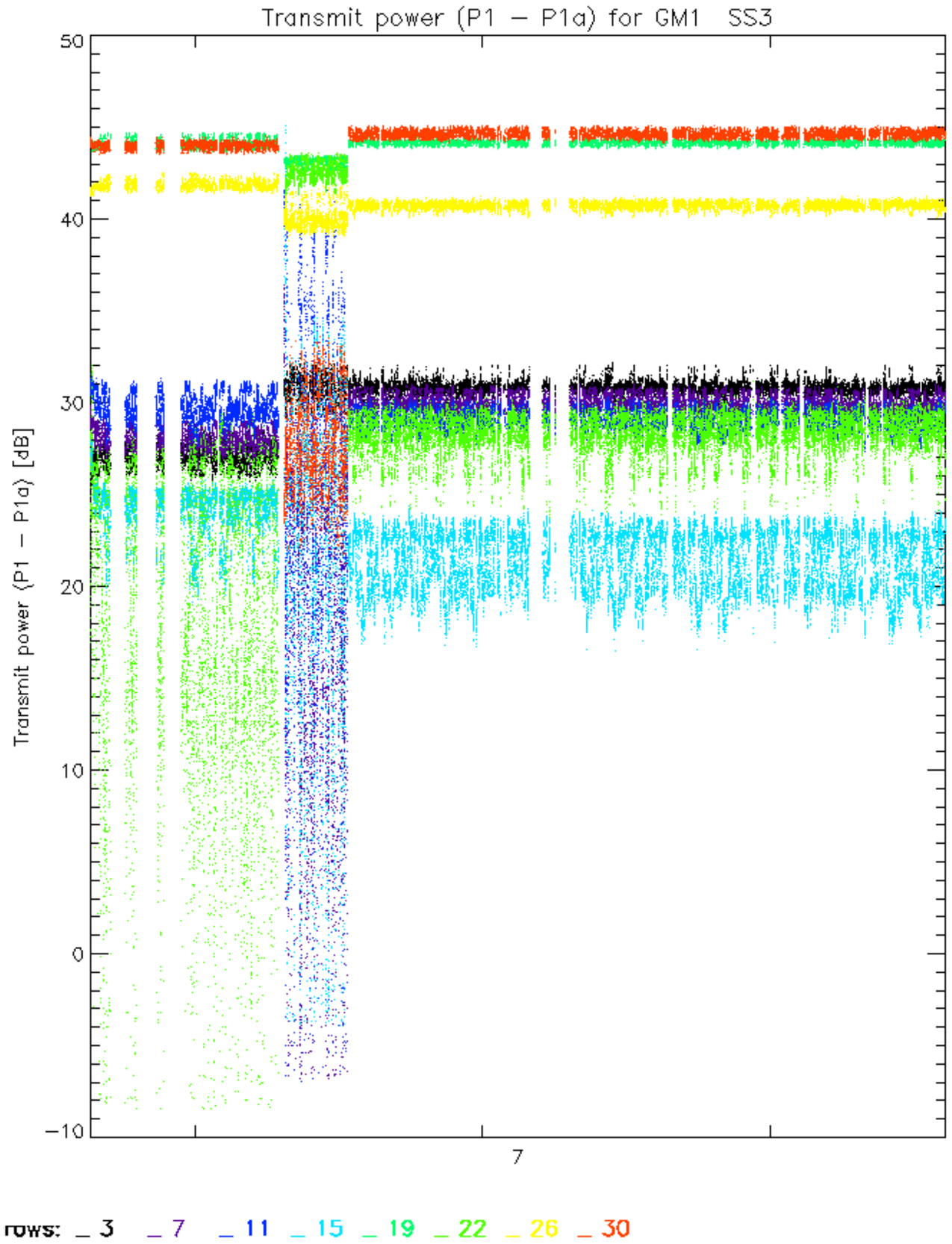
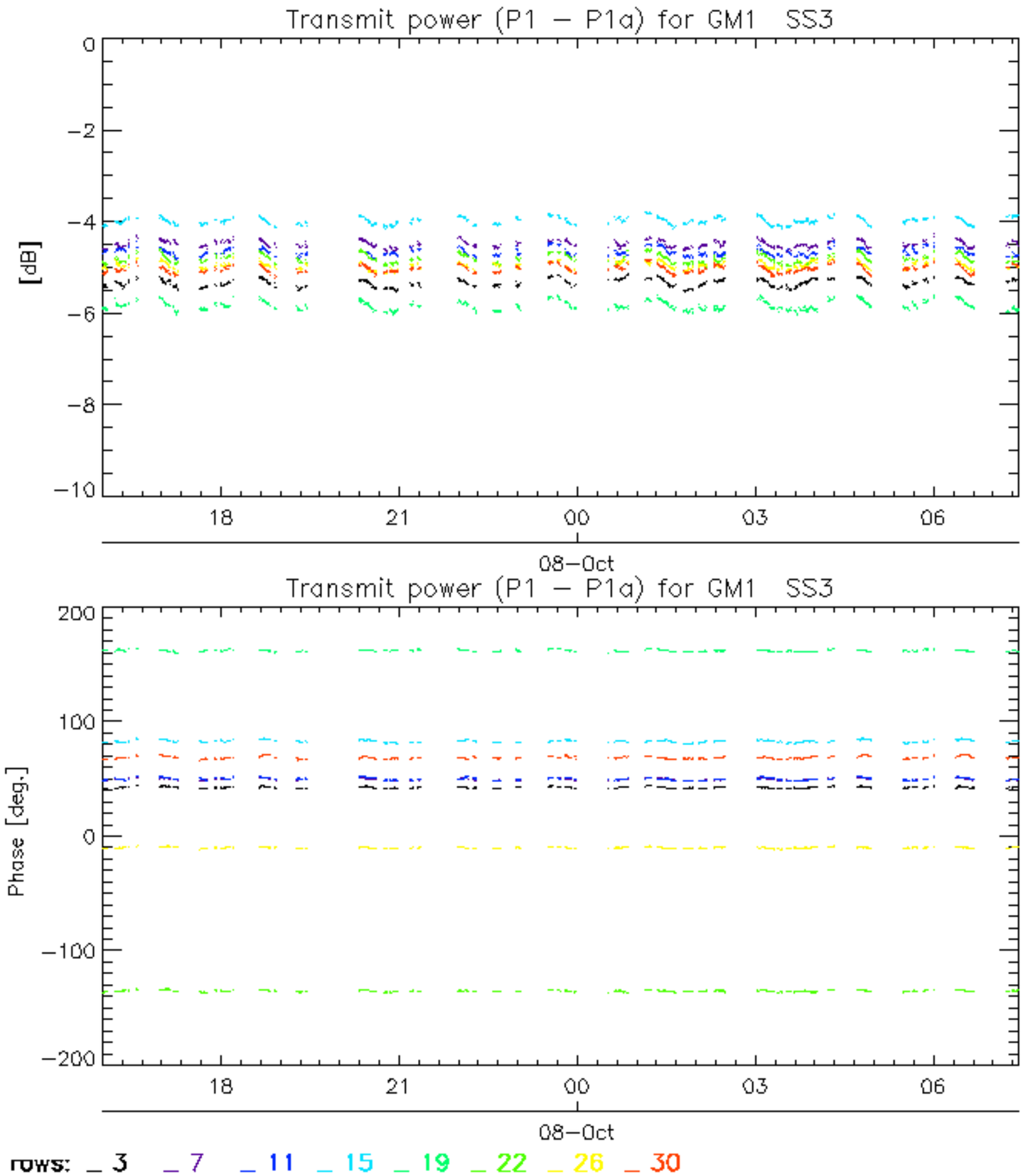
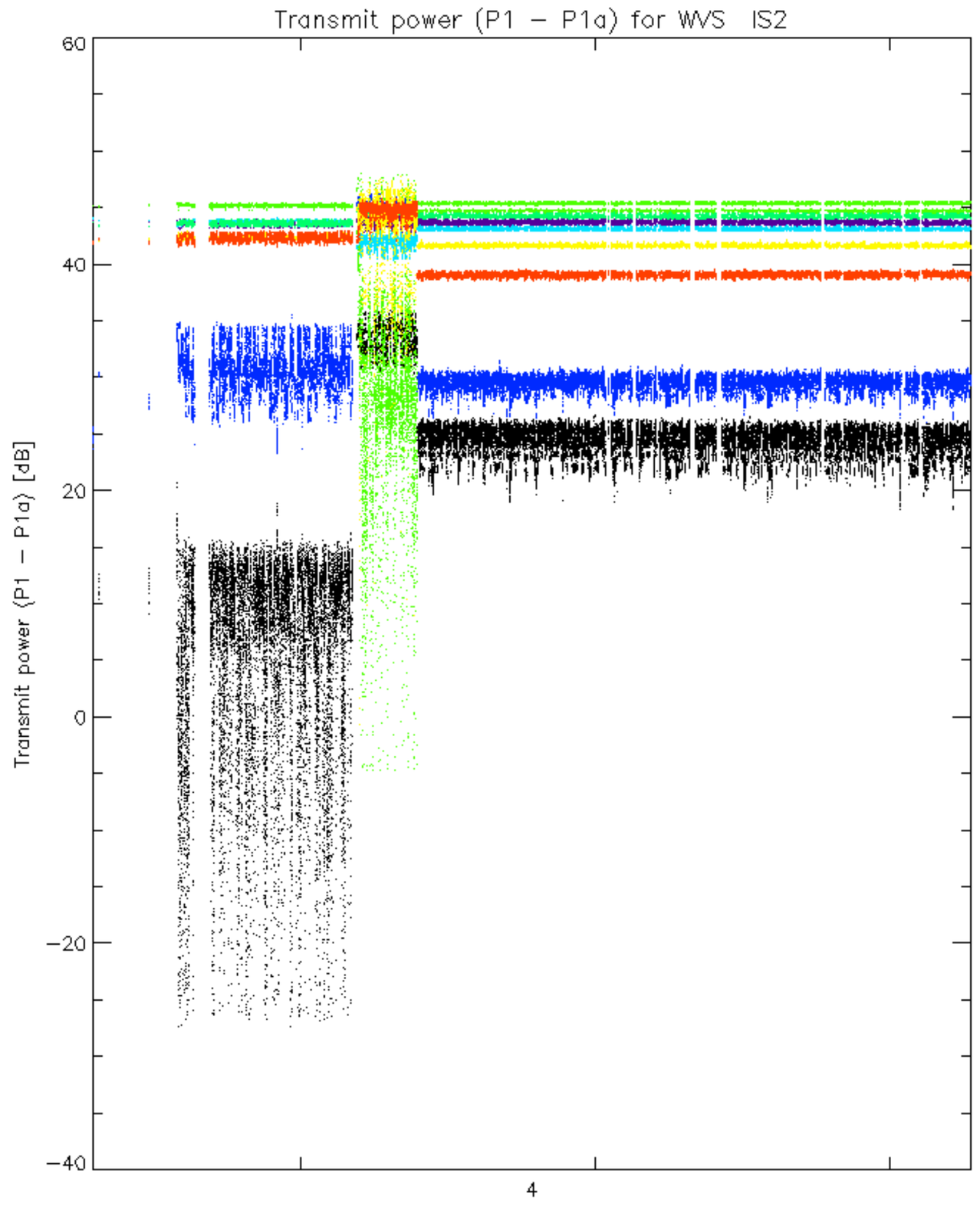
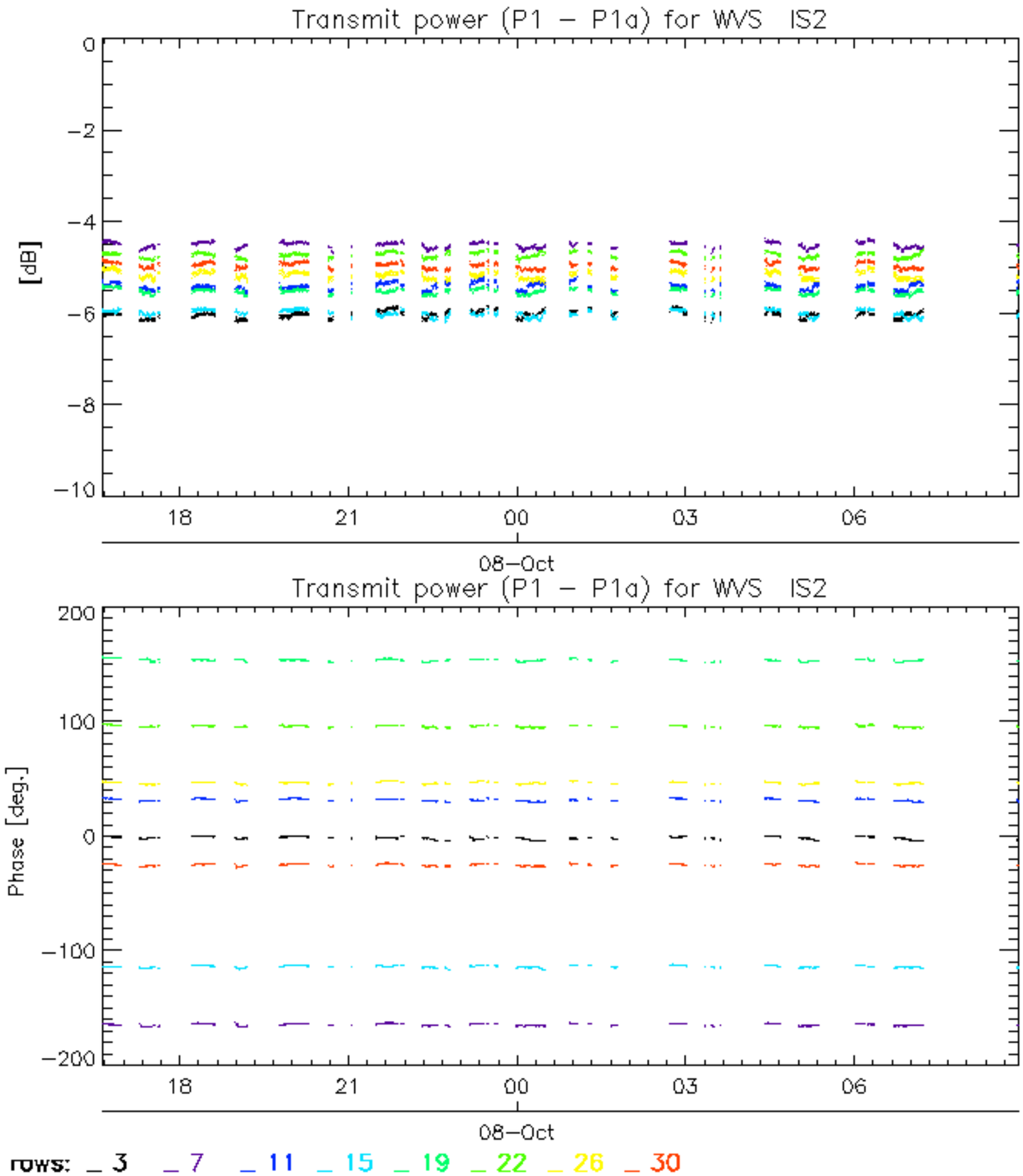

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
7
rows: 3 7 11 15 19 22 26 30


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


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
60
40
20
0
−20
−40
4
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–Oct
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
08–Oct
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.