PRELIMINARY REPORT OF 050928

last update on Wed Sep 28 10:50:01 GMT 2005

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 2005-09-27 00:00:00 to 2005-09-28 10:50:01

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	26	49	10	1	6
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	26	49	10	1	6
ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_000000	26	49	10	1	6
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	26	49	10	1	6

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	40	64	27	12	55
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	40	64	27	12	55
ASA_XCA_AXVIEC20050803_152145_20040412_000000_20051231_000000	40	64	27	12	55
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	40	64	27	12	55

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	20050927 085034
H	20050924 084449

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
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☒	☒
☒	☒

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
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4.2 - Cyclic statistics

4.2.1 - Evolution for WVS

Evolution of cal pulses for WVS
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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	-3.460492	0.085187	-0.452937
7	P1	-3.081591	0.038009	0.379729
11	P1	-4.501978	0.155490	0.892519
15	P1	-5.807845	0.060213	-0.514208
19	P1	-3.447801	0.239994	1.059817
22	P1	-4.556239	0.023836	0.244147
26	P1	-4.654183	0.106173	0.659607
30	P1	-6.539423	0.707352	2.272933
3	P1	-15.897662	1.882581	-0.478563
7	P1	-16.509518	5.367659	-1.754856
11	P1	-20.198727	12.766925	6.757416
15	P1	-13.050035	11.285667	-4.030702
19	P1	-14.053599	0.352874	1.436296
22	P1	-17.110426	25.310059	-2.738465
26	P1	-18.173038	22.246168	-0.678829
30	P1	-18.121599	8.991804	0.917469

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.774290	0.100803	-0.232241
7	P2	-22.261456	0.333095	-1.278789
11	P2	-14.952202	3.236900	-4.862184
15	P2	-7.143828	0.123712	-0.268553
19	P2	-9.314501	0.234428	0.697969
22	P2	-17.140242	0.272797	-1.167321
26	P2	-16.339560	0.143622	0.572163
30	P2	-19.195728	0.283155	-1.176217

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.165695	0.004337	-0.022930
7	P3	-8.165695	0.004337	-0.022930
11	P3	-8.165695	0.004337	-0.022930
15	P3	-8.165695	0.004337	-0.022930
19	P3	-8.165695	0.004337	-0.022930
22	P3	-8.165695	0.004337	-0.022930
26	P3	-8.165695	0.004337	-0.022930
30	P3	-8.165695	0.004337	-0.022930

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	-3.016618	0.257779	-0.986038
7	P1	-2.988426	0.072496	0.037434
11	P1	-3.630043	0.337580	1.527956
15	P1	-3.559102	0.034445	0.323046
19	P1	-3.450043	0.086528	0.489616
22	P1	-5.385916	0.244868	0.926367
26	P1	-6.536625	1.040411	2.411347
30	P1	-5.707968	0.584279	1.661789
3	P1	-11.345454	0.545464	-0.887132
7	P1	-11.693401	21.018866	-1.494219
11	P1	-13.562008	38.782986	0.453777
15	P1	-13.067540	35.198460	-1.558515
19	P1	-15.325496	0.222468	0.196683
22	P1	-23.461344	6.903955	6.379015
26	P1	-16.577866	6.633986	-3.641154
30	P1	-19.926952	2.056950	0.945626

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.516279	0.068256	-0.399328
7	P2	-22.440481	0.371912	-1.520243
11	P2	-10.419611	1.370662	-3.191720
15	P2	-5.002294	0.051212	0.245935
19	P2	-6.759679	0.123161	0.073276
22	P2	-7.401677	0.284914	-1.362297
26	P2	-23.912270	0.041459	0.123331
30	P2	-22.028652	0.073172	-0.253190

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.008626	0.003475	-0.020729
7	P3	-8.008546	0.003480	-0.020410
11	P3	-8.008433	0.003474	-0.020015
15	P3	-8.008435	0.003484	-0.020512
19	P3	-8.008642	0.003467	-0.020694
22	P3	-8.008459	0.003469	-0.020297
26	P3	-8.008579	0.003475	-0.020726
30	P3	-8.008440	0.003489	-0.020792

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

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4.3.2 - Evolution for GM1

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5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000502258
	stdev	1.97625e-07
MEAN Q	mean	0.000515049
	stdev	2.21145e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.132431
	stdev	0.00101231
STDEV Q	mean	0.132715
	stdev	0.00102482

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005092[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_1PNPDE20050926_182349_000000352041_00099_18690_6722.N1	0	8
ASA_IMM_1PNPDE20050927_201157_000000522041_00114_18705_6811.N1	0	20
ASA_IMM_1PNPDK20050926_070621_000000622041_00092_18683_4751.N1	0	185
ASA_IMM_1PNPDK20050926_070723_000000192041_00092_18683_4849.N1	0	73
ASA_IMM_1PNPDK20050926_070822_000000602041_00092_18683_4752.N1	0	49
ASA_IMM_1PNPDK20050926_081954_000000152041_00093_18684_4754.N1	0	63
ASA_IMM_1PNPDK20050926_120645_000000622041_00095_18686_4758.N1	0	100
ASA_IMM_1PNPDK20050926_120747_000000272041_00095_18686_4851.N1	0	60
ASA_IMM_1PNPDK20050926_120846_000000272041_00095_18686_4759.N1	0	66

ASA_IMM_1PNPDK20050926_120913_000000072041_00095_18686_4857.N1	0	11
ASA_IMM_1PNPDK20050926_152355_000000622041_00097_18688_4763.N1	0	113
ASA_IMM_1PNPDK20050926_152556_000000502041_00097_18688_4764.N1	0	118
ASA_IMM_1PNPDK20050927_075833_000000682041_00107_18698_4860.N1	0	111
ASA_IMM_1PNPDK20050927_081402_000000212041_00107_18698_4855.N1	0	56
ASA_WVS_1PNPDK20050926_055320_000003302041_00091_18682_1605.N1	0	16
ASA_GM1_1PNPDK20050926_055937_000005982041_00091_18682_6530.N1	0	88
ASA_GM1_1PNPDK20050926_061117_000001932041_00091_18682_6533.N1	0	13
ASA_GM1_1PNPDK20050926_065026_000005372041_00092_18683_6534.N1	0	48
ASA_GM1_1PNPDK20050926_071049_000007732041_00092_18683_6540.N1	0	71
ASA_GM1_1PNPDK20050926_072553_000001502041_00092_18683_6542.N1	0	7
ASA_GM1_1PNPDK20050926_073927_000002292041_00092_18683_6545.N1	0	29
ASA_GM1_1PNPDK20050926_074503_000008452041_00092_18683_6538.N1	0	106
ASA_GM1_1PNPDK20050926_083112_000007792041_00093_18684_6539.N1	0	167
ASA_GM1_1PNPDK20050926_092334_000004282041_00093_18684_6551.N1	0	37
ASA_GM1_1PNPDK20050926_093227_000004342041_00093_18684_6550.N1	0	29
ASA_GM1_1PNPDK20050926_102220_000001812041_00094_18685_6564.N1	0	7
ASA_GM1_1PNPDK20050926_110125_000006042041_00094_18685_6560.N1	0	28
ASA_GM1_1PNPDK20050926_111314_000004282041_00094_18685_6562.N1	0	65
ASA_GM1_1PNPDK20050926_115256_000004952041_00095_18686_6561.N1	0	155
ASA_GM1_1PNPDK20050926_124201_000004952041_00095_18686_6567.N1	0	51
ASA_GM1_1PNPDK20050926_125018_000000962041_00095_18686_6691.N1	0	6
ASA_GM1_1PNPDK20050926_130524_000004652041_00095_18686_6570.N1	0	46
ASA_GM1_1PNPDK20050926_132615_000000662041_00096_18687_6572.N1	0	15
ASA_GM1_1PNPDK20050926_132615_000000662041_00096_18687_6693.N1	0	15
ASA_GM1_1PNPDK20050926_133447_000003922041_00096_18687_6569.N1	0	50
ASA_GM1_1PNPDK20050926_133511_000009182041_00096_18687_6579.N1	0	95
ASA_GM1_1PNPDK20050926_140511_000002052041_00096_18687_6589.N1	0	26
ASA_GM1_1PNPDK20050926_141024_000000782041_00096_18687_6630.N1	0	30
ASA_GM1_1PNPDK20050926_141026_000000782041_00096_18687_6590.N1	0	30
ASA_GM1_1PNPDK20050926_142236_000005922041_00096_18687_6582.N1	0	75
ASA_GM1_1PNPDK20050926_143412_000004412041_00096_18687_6586.N1	0	44
ASA_GM1_1PNPDK20050926_144716_000002232041_00096_18687_6578.N1	0	17
ASA_GM1_1PNPDK20050926_145950_000009242041_00097_18688_6580.N1	0	105
ASA_GM1_1PNPDK20050926_145950_000009242041_00097_18688_6632.N1	0	105
ASA_GM1_1PNPDK20050927_070836_000005792041_00106_18697_6635.N1	0	8
ASA_GM1_1PNPDK20050927_072000_000004532041_00106_18697_6640.N1	0	29
ASA_GM1_1PNPDK20050927_075957_000005012041_00107_18698_6639.N1	0	30
ASA_GM1_1PNPDK20050927_081001_000001262041_00107_18698_6643.N1	0	30
ASA_WSM_1PNPDE20050926_012729_000001832041_00088_18679_0630.N1	0	1
ASA_WSM_1PNPDE20050927_042619_000003042041_00105_18696_0855.N1	0	45
ASA_WSM_1PNPDE20050927_161253_000000852041_00112_18703_0924.N1	0	6

ASA_WSM_1PNPDK20050926_065933_000000672041_00092_18683_5042.N1	0	114
ASA_WSM_1PNPDK20050926_070040_000000122041_00092_18683_5146.N1	0	31
ASA_WSM_1PNPDK20050926_074327_000000862041_00092_18683_5056.N1	0	165
ASA_WSM_1PNPDK20050926_084808_000000552041_00093_18684_5050.N1	0	89
ASA_WSM_1PNPDK20050926_085004_000001652041_00093_18684_5051.N1	0	44
ASA_WSM_1PNPDK20050926_102532_000000672041_00094_18685_5064.N1	0	42
ASA_WSM_1PNPDK20050926_102740_000000552041_00094_18685_5065.N1	0	92
ASA_WSM_1PNPDK20050926_102936_000000482041_00094_18685_5066.N1	0	86
ASA_WSM_1PNPDK20050926_120228_000000302041_00095_18686_5120.N1	0	48
ASA_WSM_1PNPDK20050926_120328_000000552041_00095_18686_5072.N1	0	53
ASA_WSM_1PNPDK20050926_120524_000000302041_00095_18686_5073.N1	0	53
ASA_WSM_1PNPDK20050926_125309_000000182041_00095_18686_5085.N1	0	43
ASA_WSM_1PNPDK20050926_132730_000000672041_00096_18687_5073.N1	0	139

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

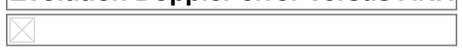
Evolution of Absolute Doppler

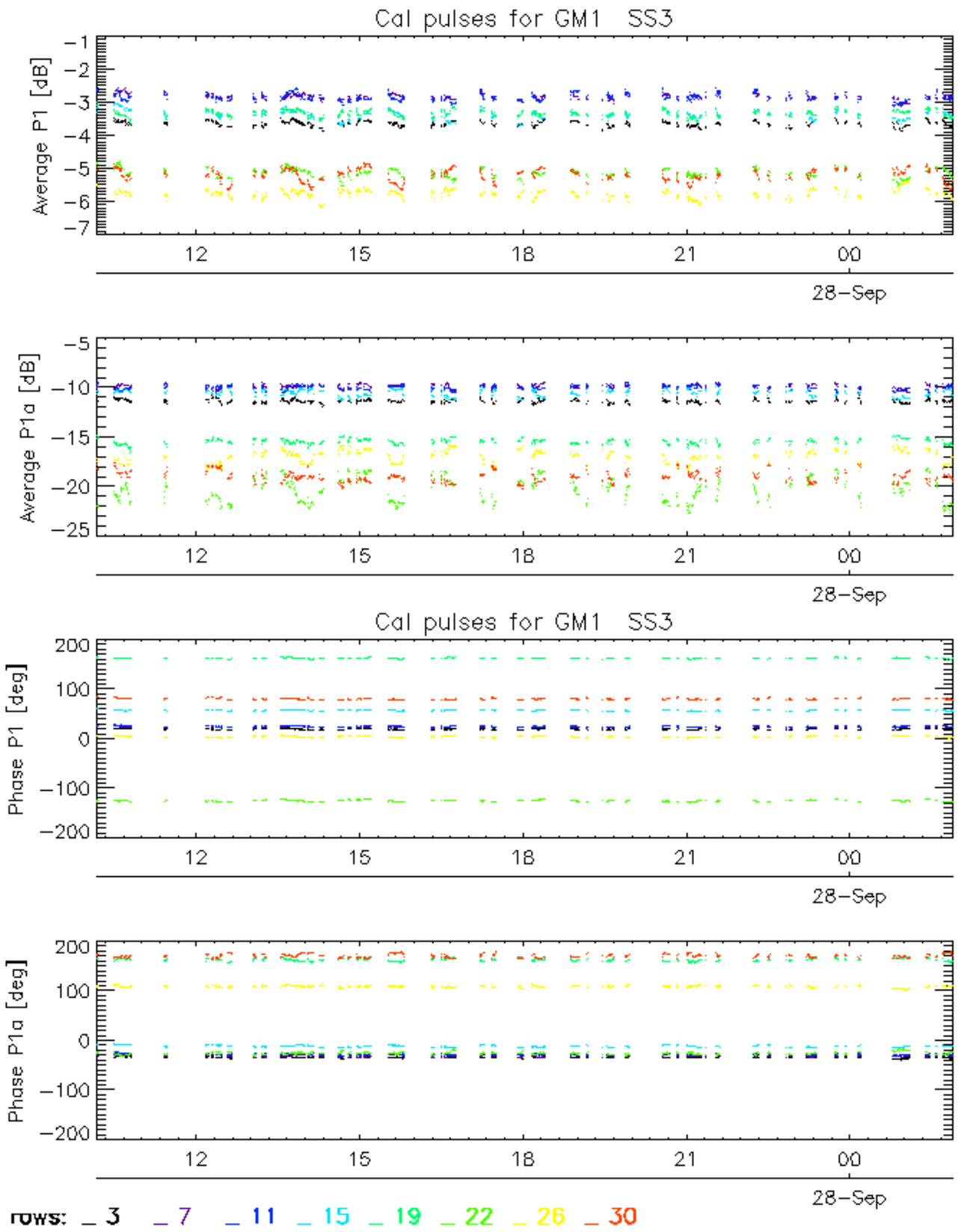
Acsending

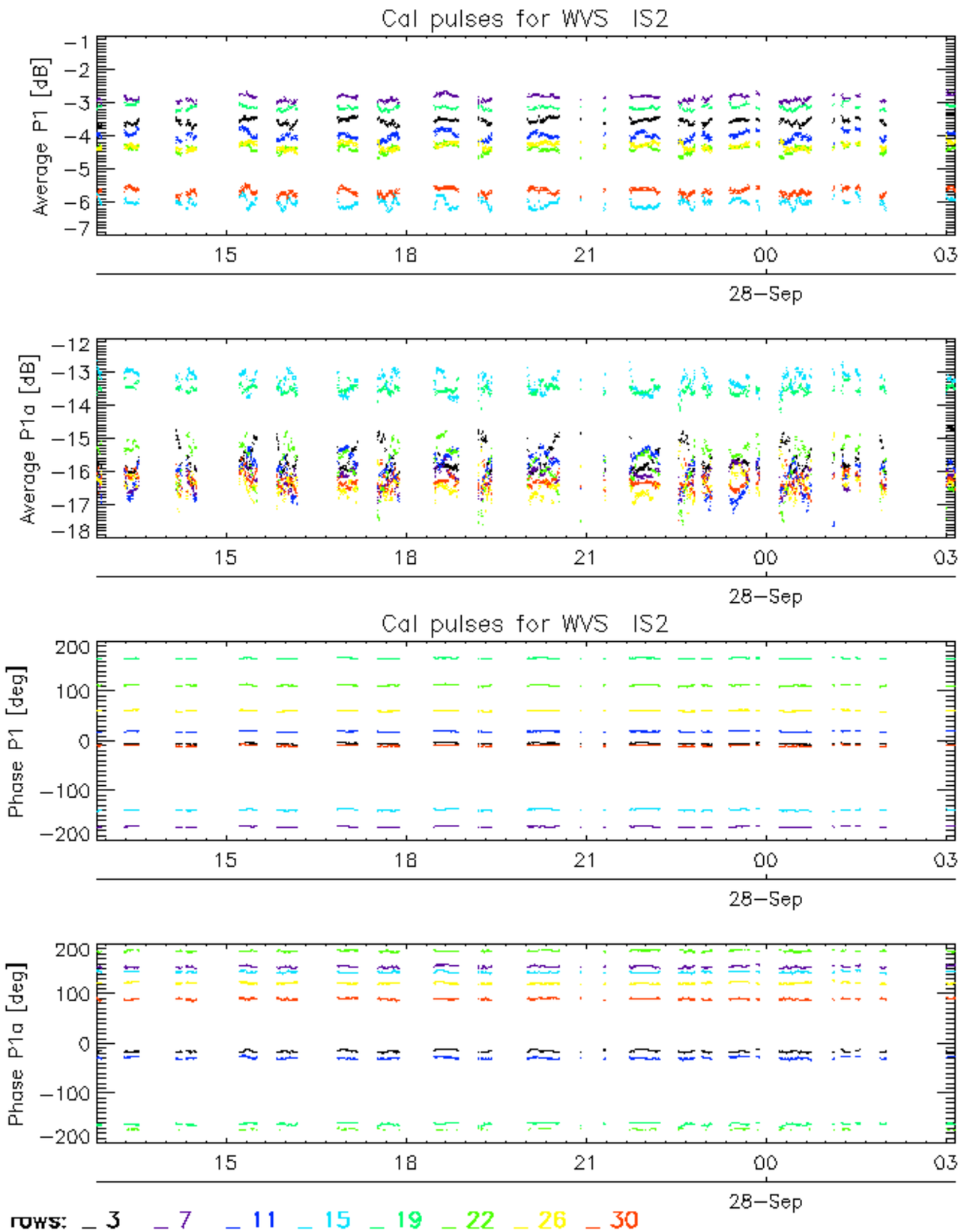
Descending

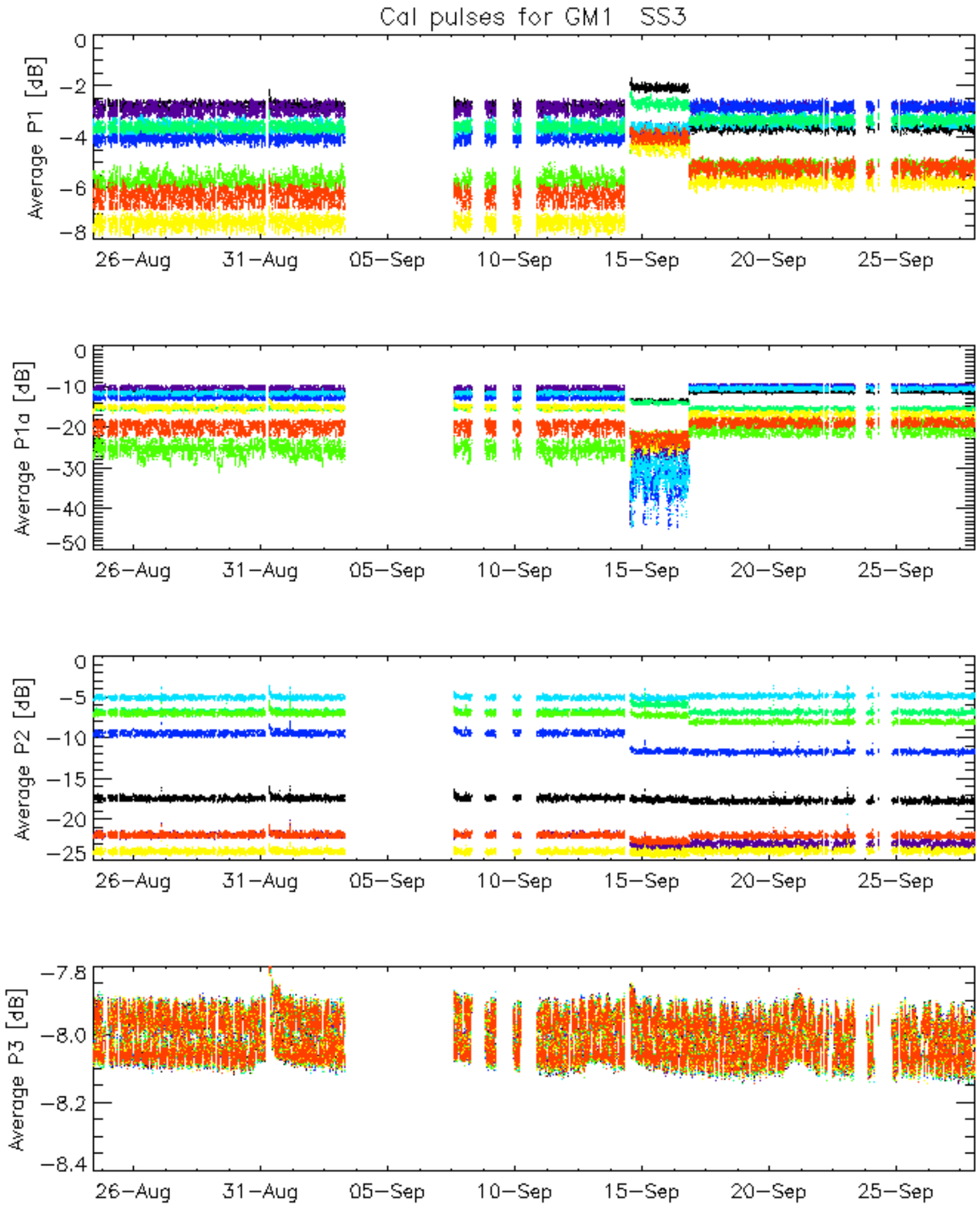
7.6 - Doppler evolution versus ANX for GM1

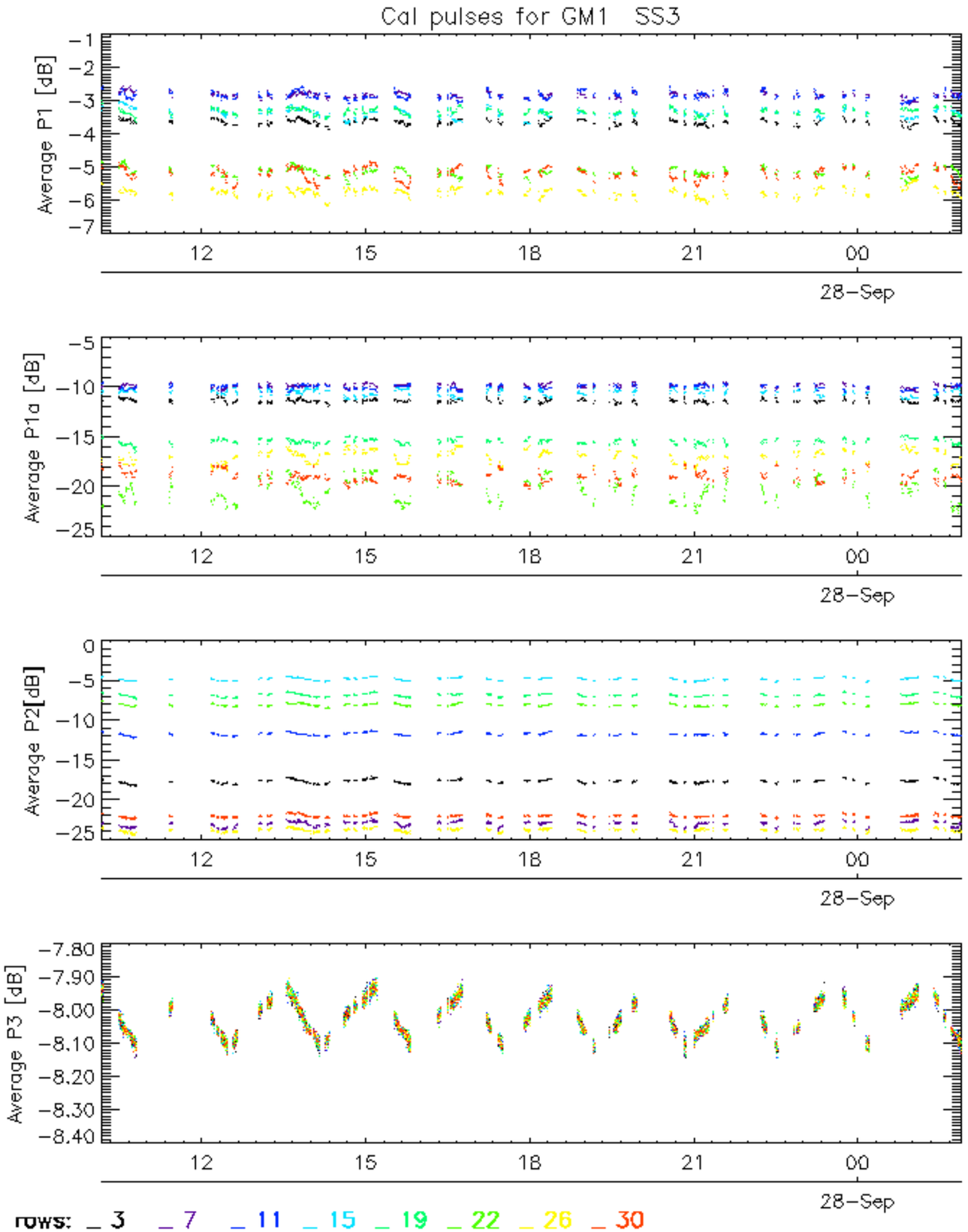
Evolution Doppler error versus ANX

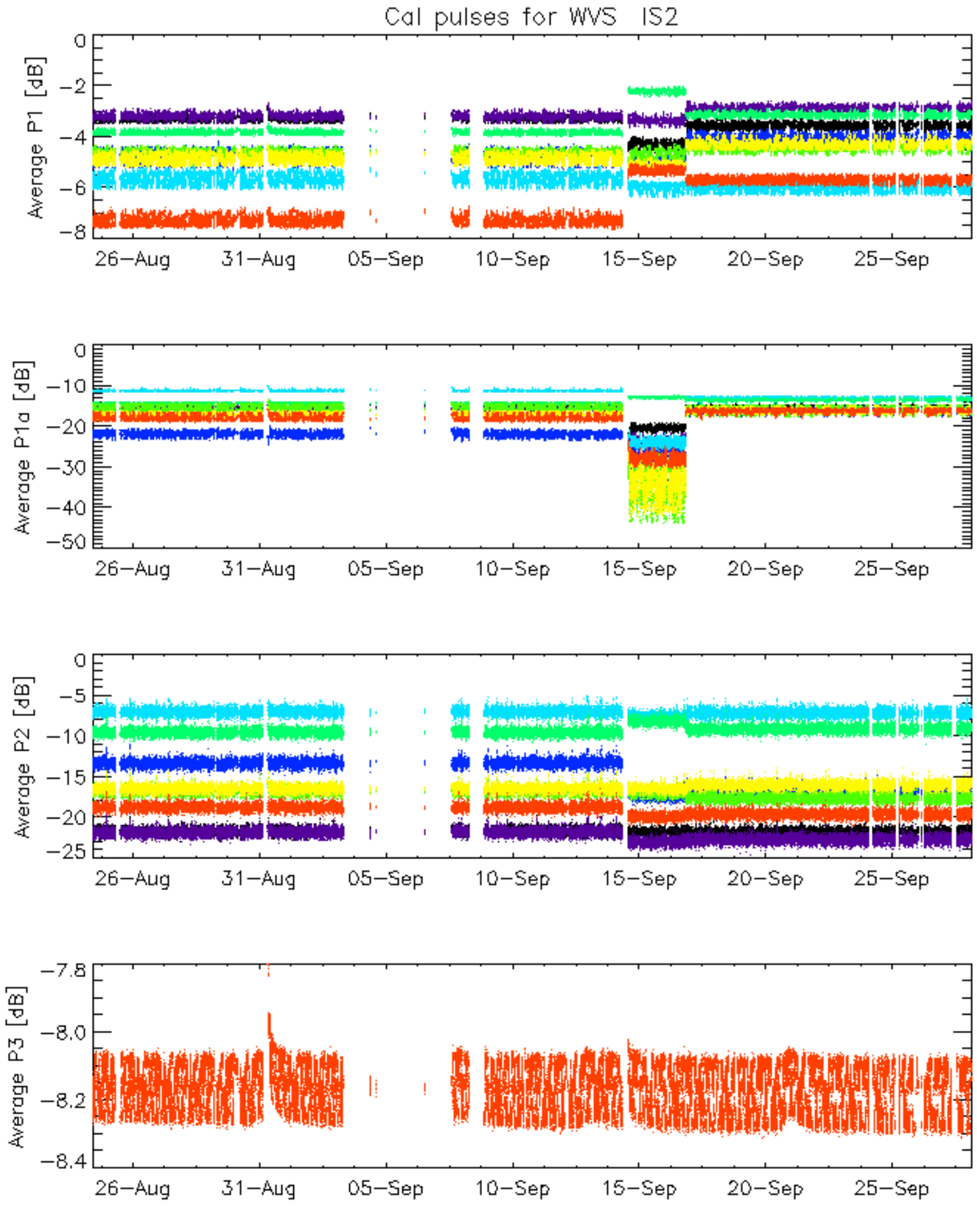


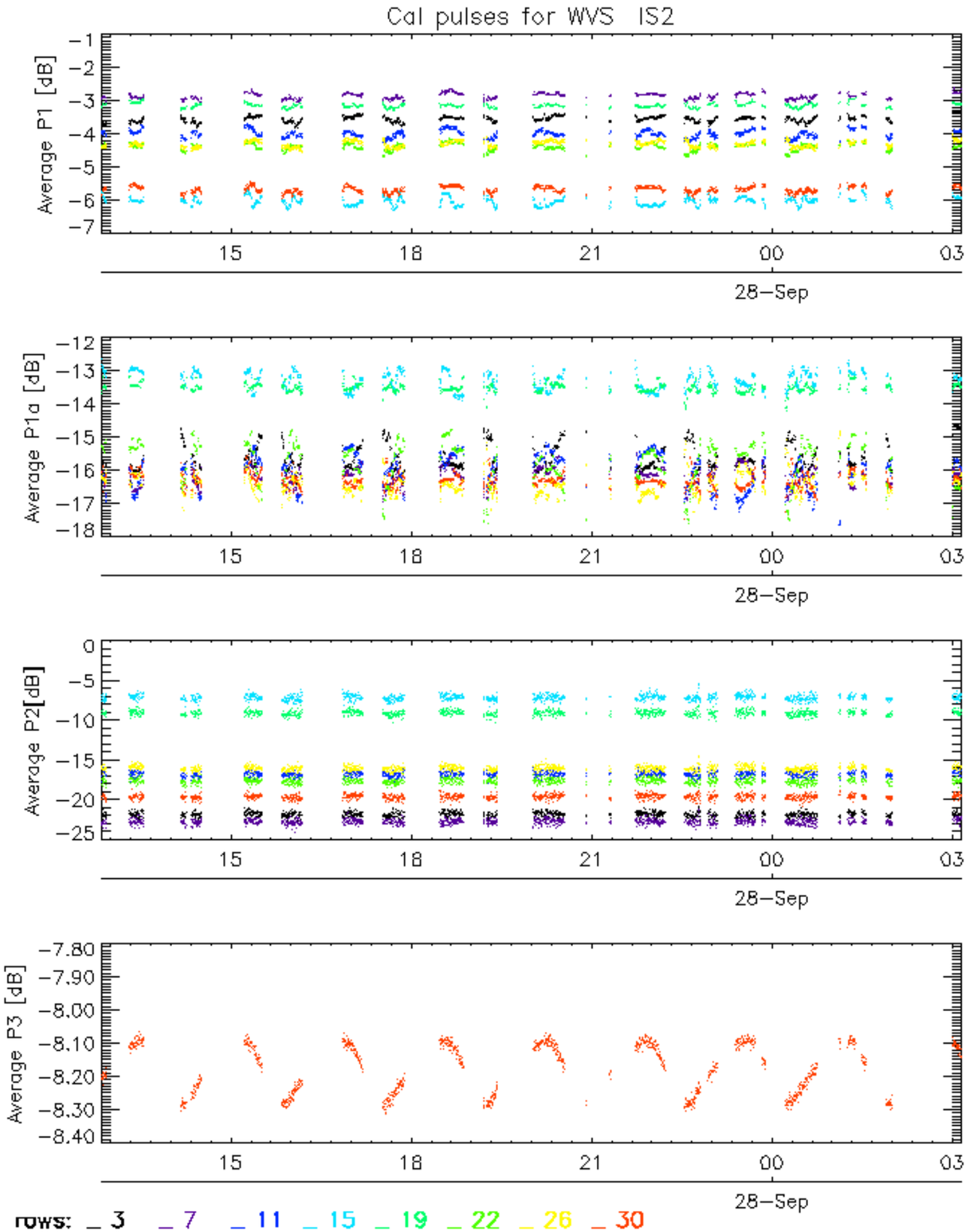

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
12
15
18
21
00
28−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
12
15
18
21
00
28−Sep
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
12
15
18
21
00
28−Sep
Phase P1a [deg]
200
100
0
−100
−200
12
15
18
21
00
28−Sep
rows: _ 3 _ 7 _ 11 _ 15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


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

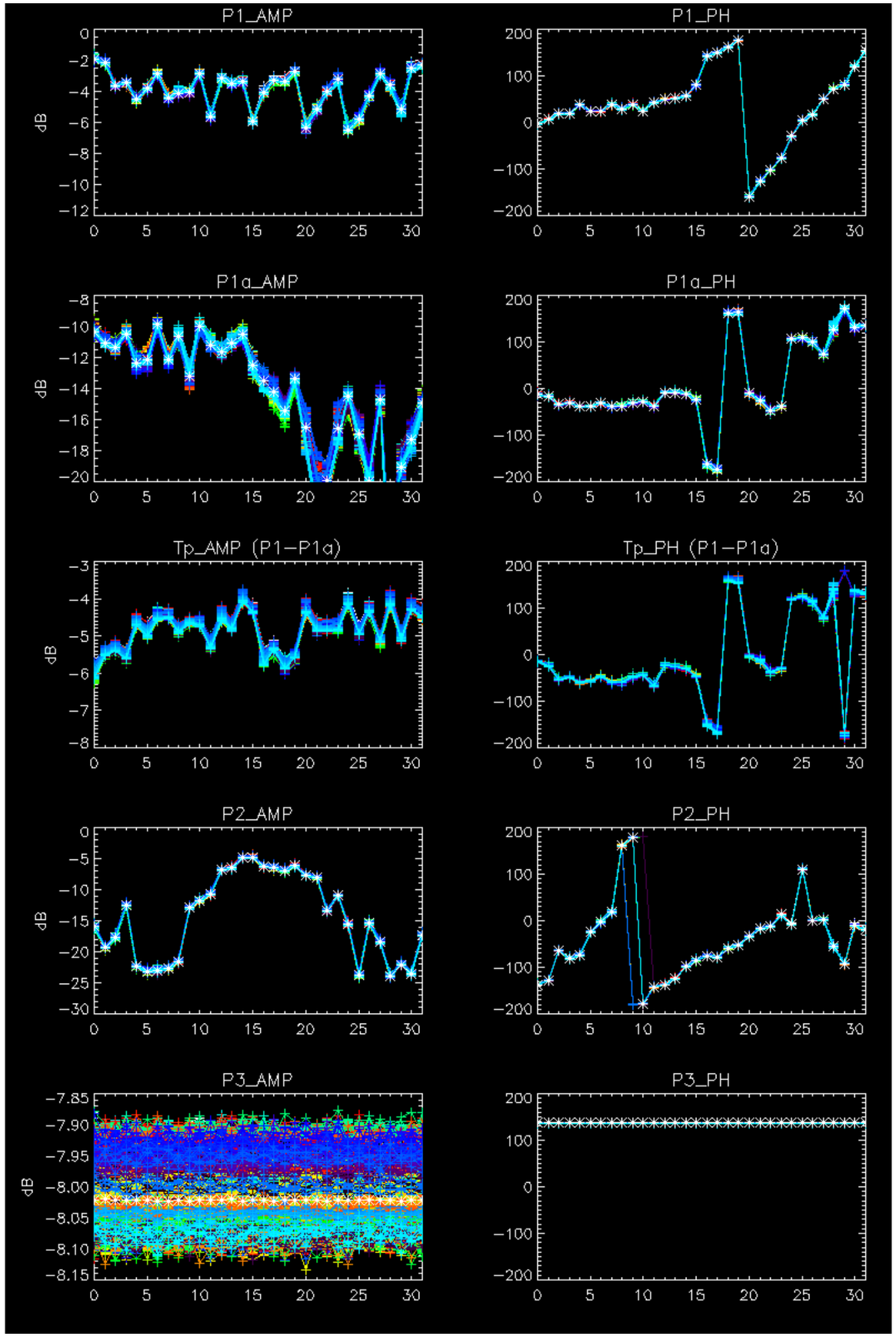

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
0
−10
−20
−30
−40
−50
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep
25−Sep
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

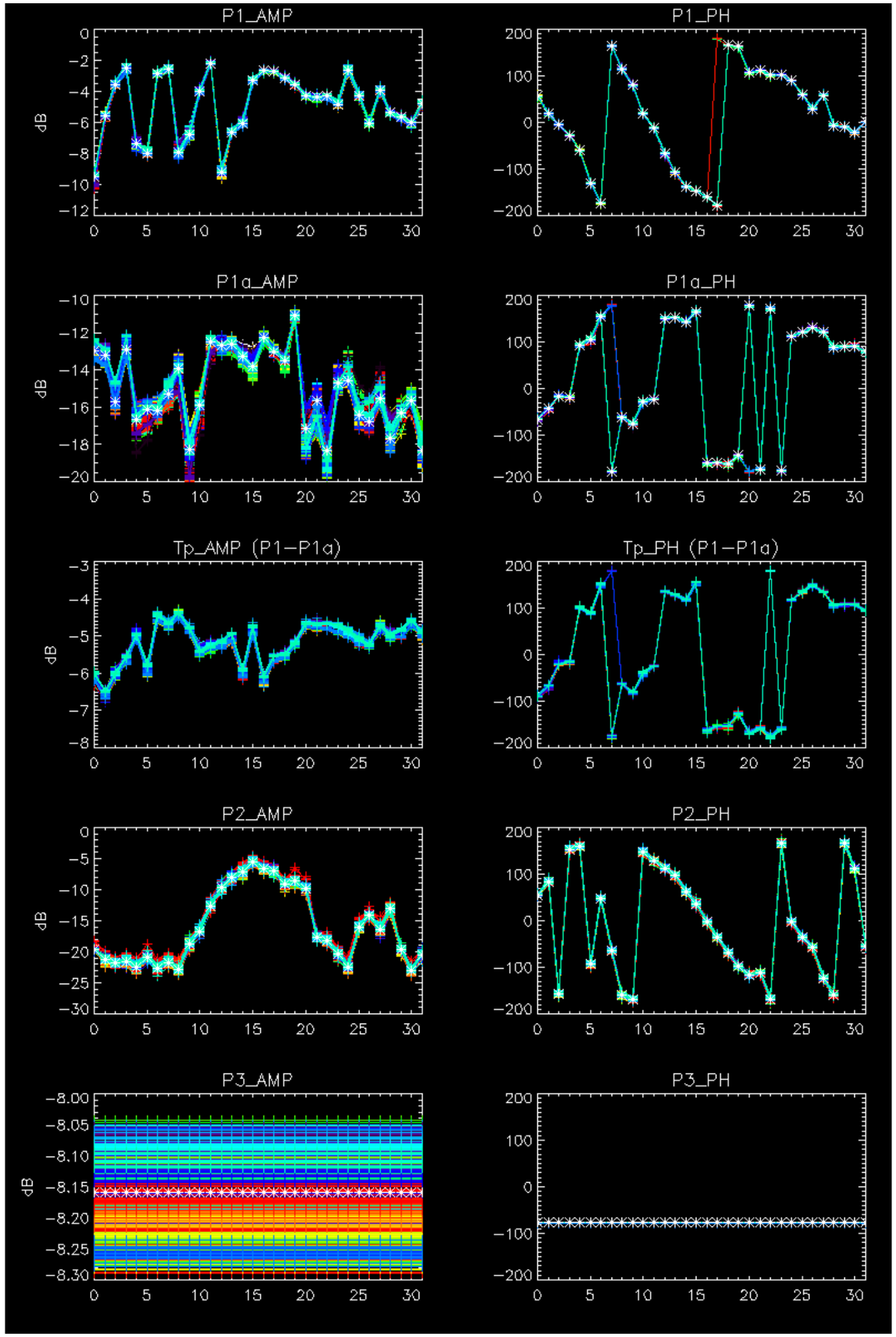

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
12
15
18
21
00
28−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
12
15
18
21
00
28−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
12
15
18
21
00
28−Sep
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
12
15
18
21
00
28−Sep
rows: _ 3 _ 7 _ 11 _ 15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


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

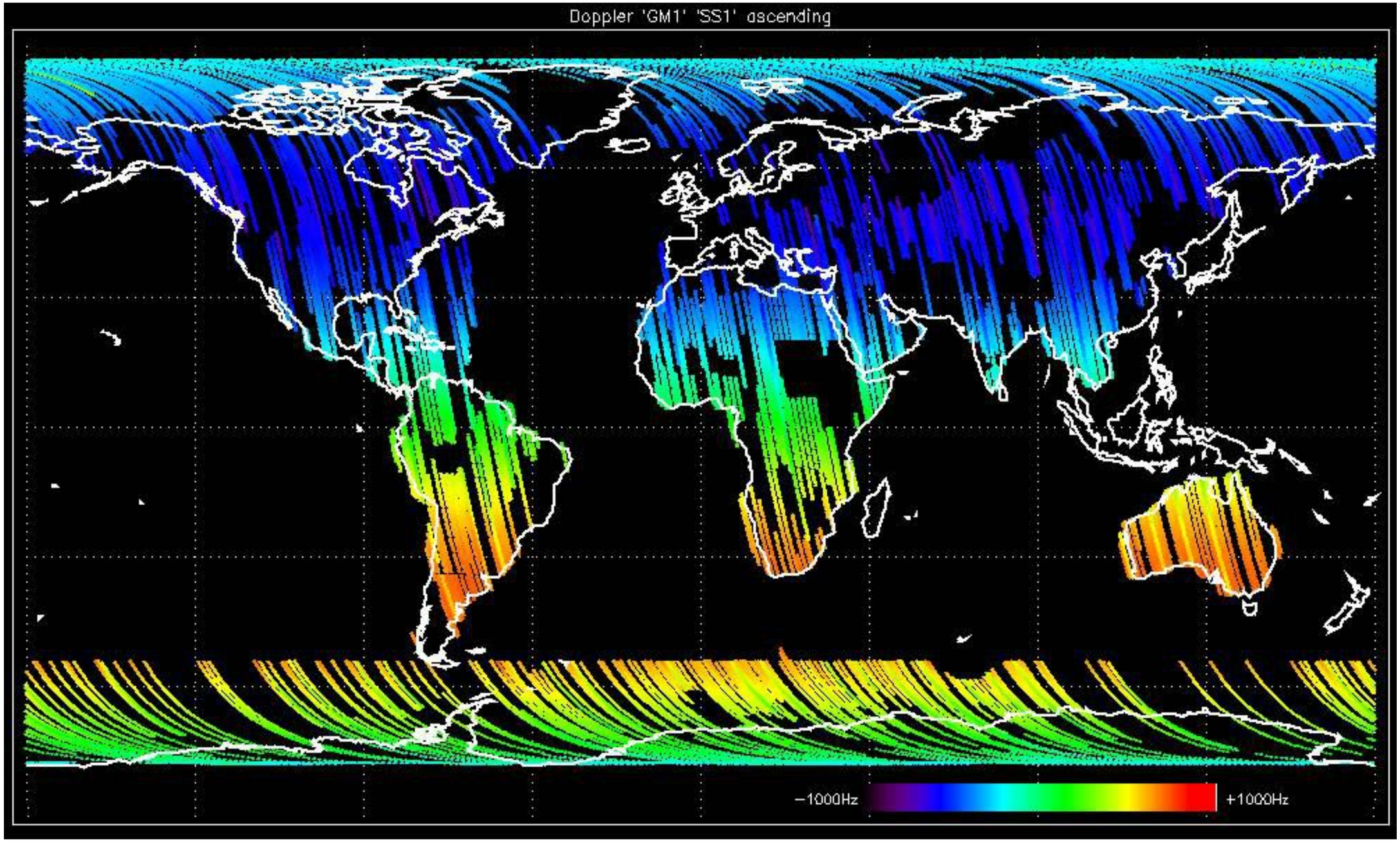
No anomalies observed.

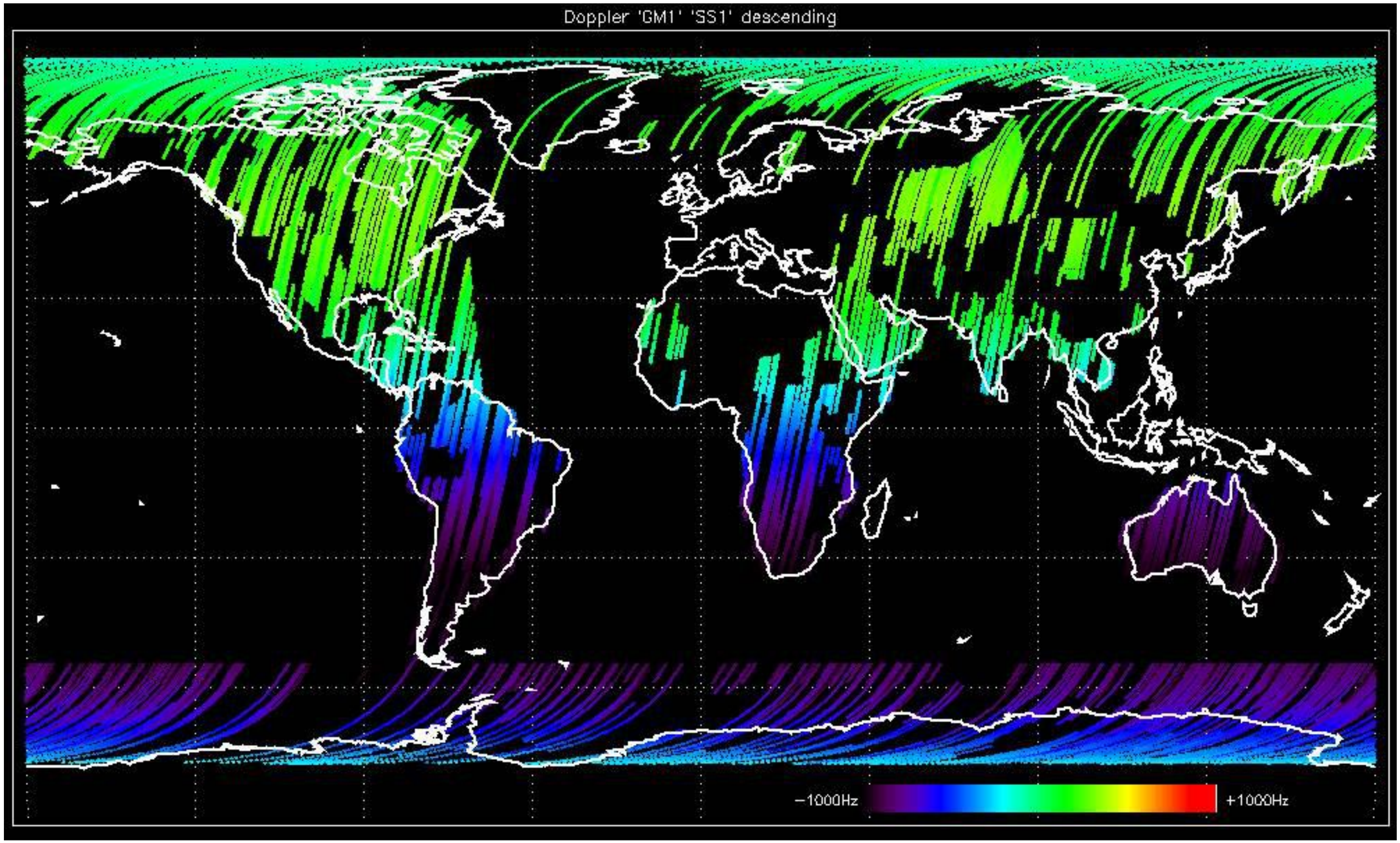

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

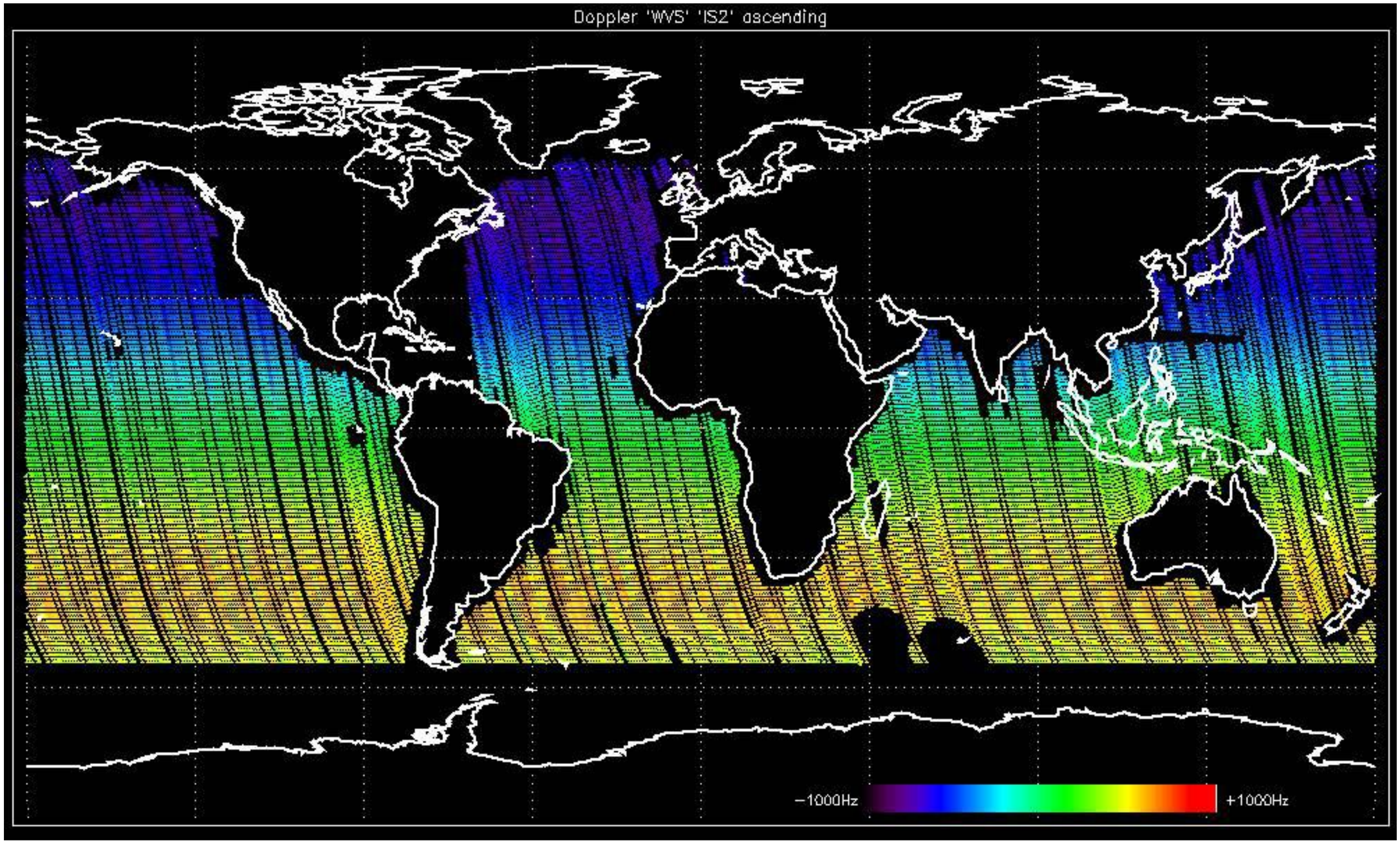

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

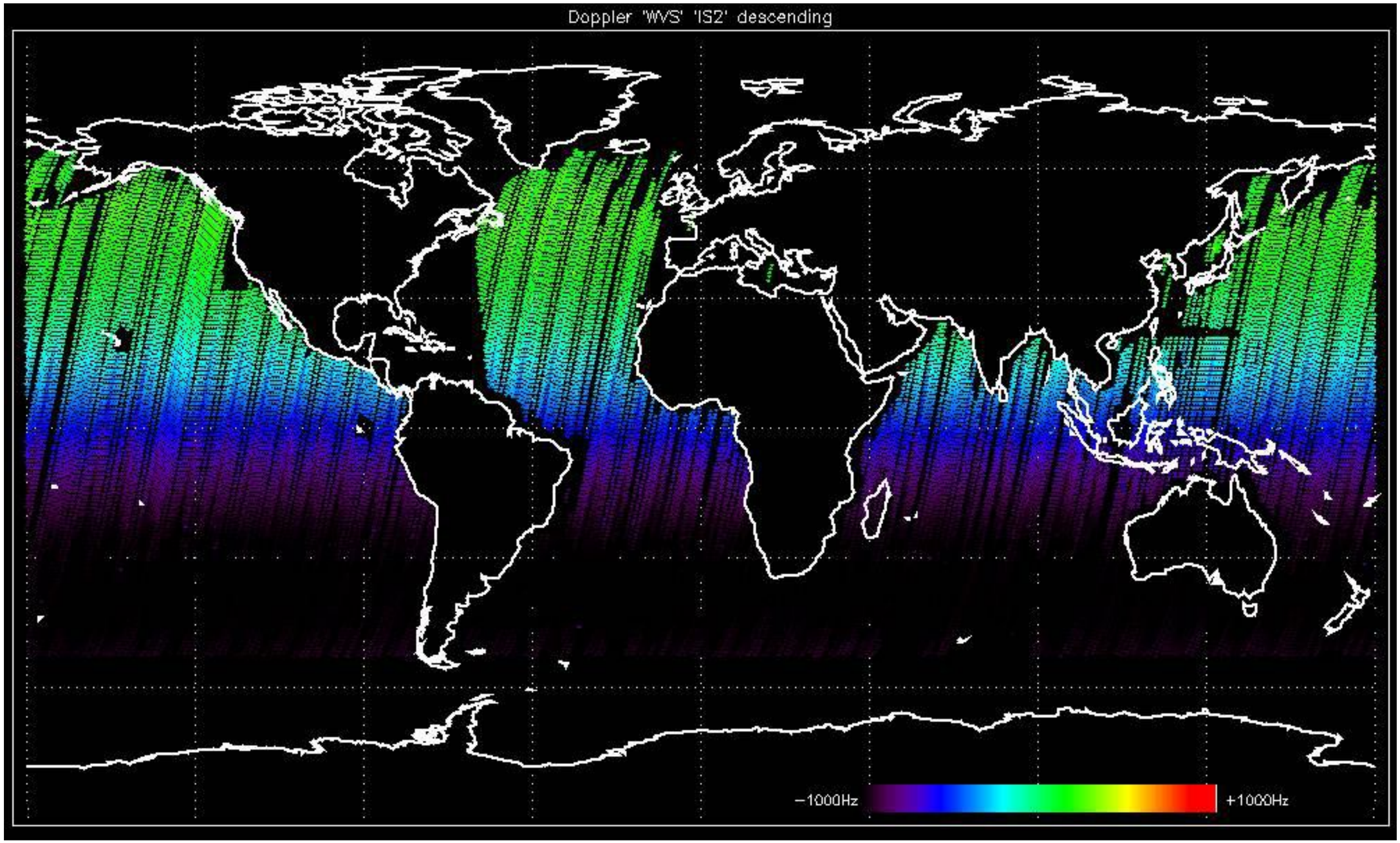
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

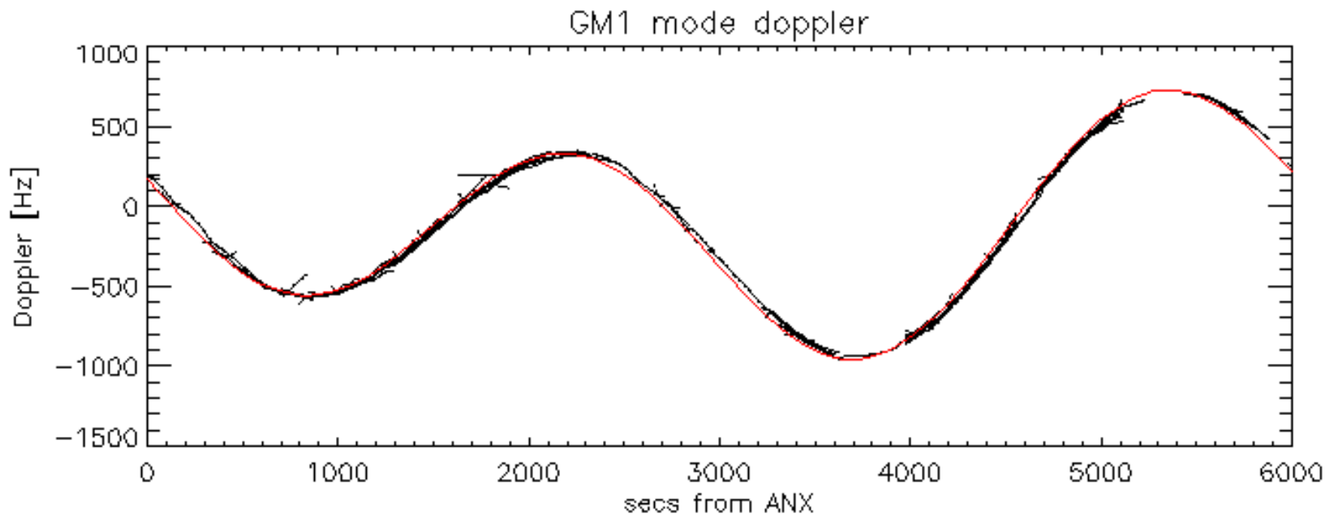
Preliminary report.The data is not yet controled

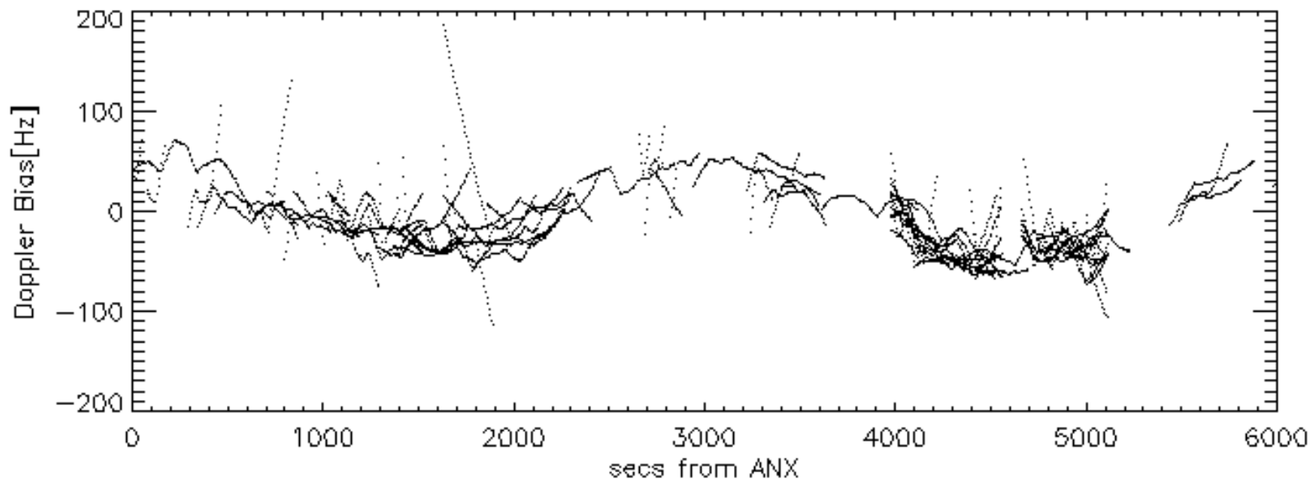

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

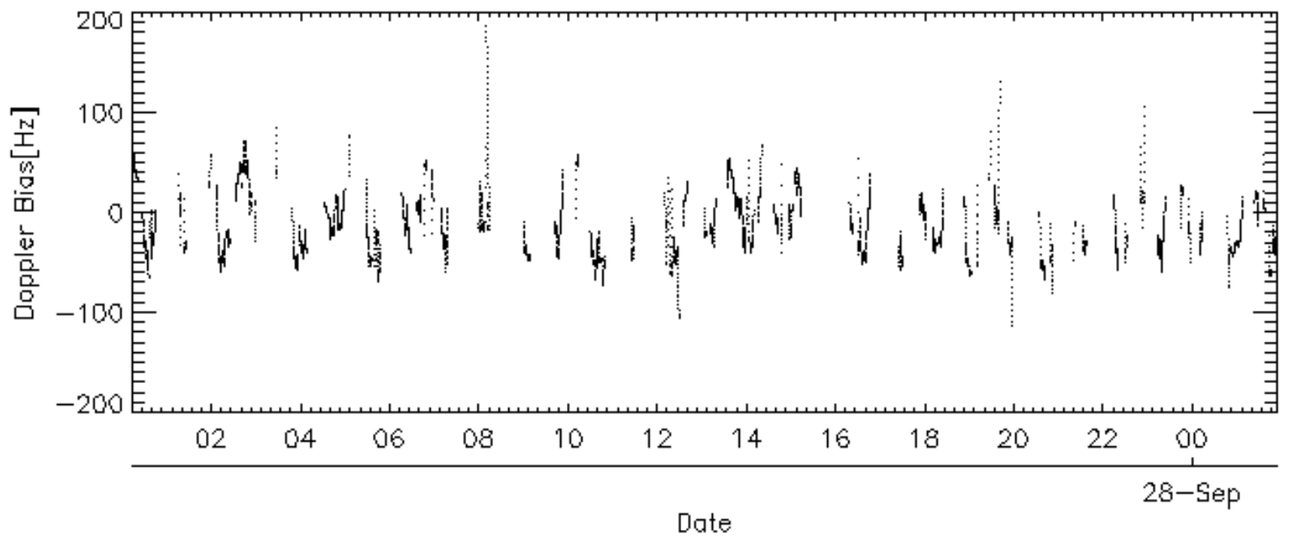

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

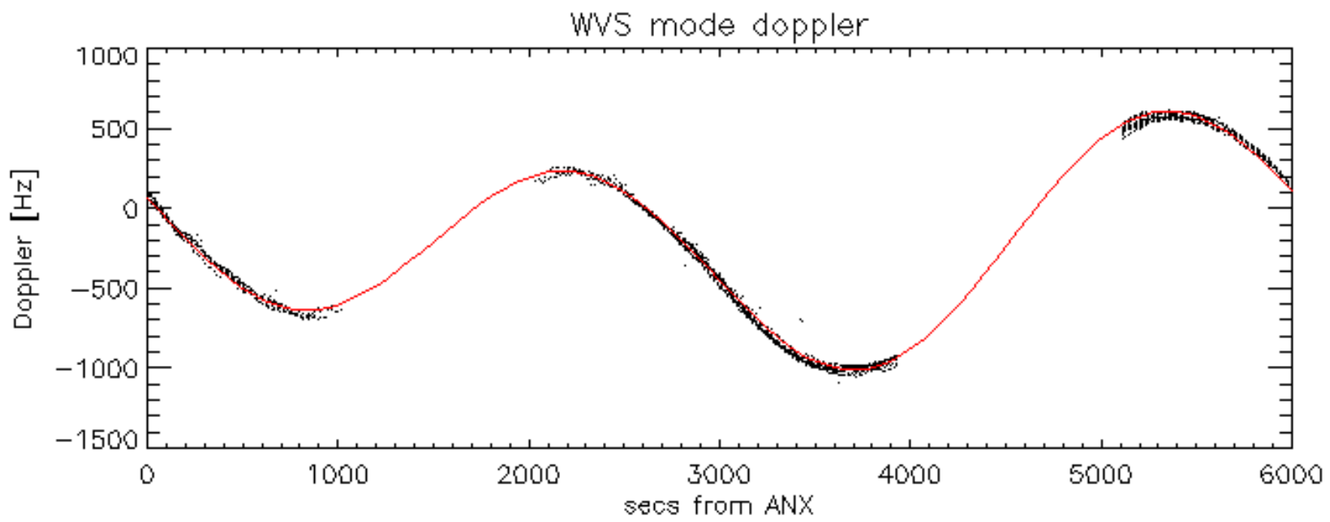

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

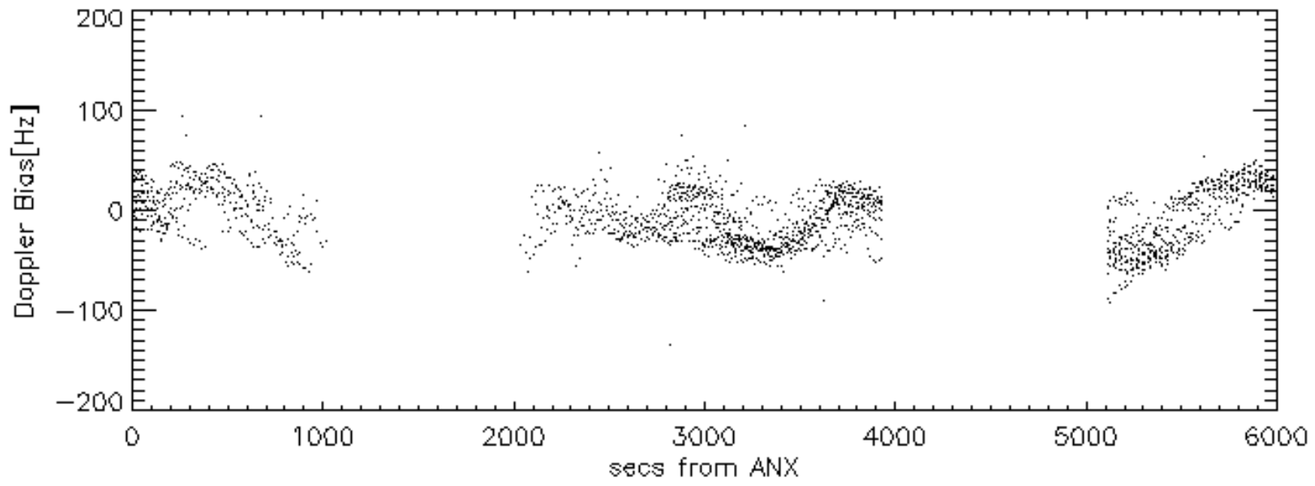

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

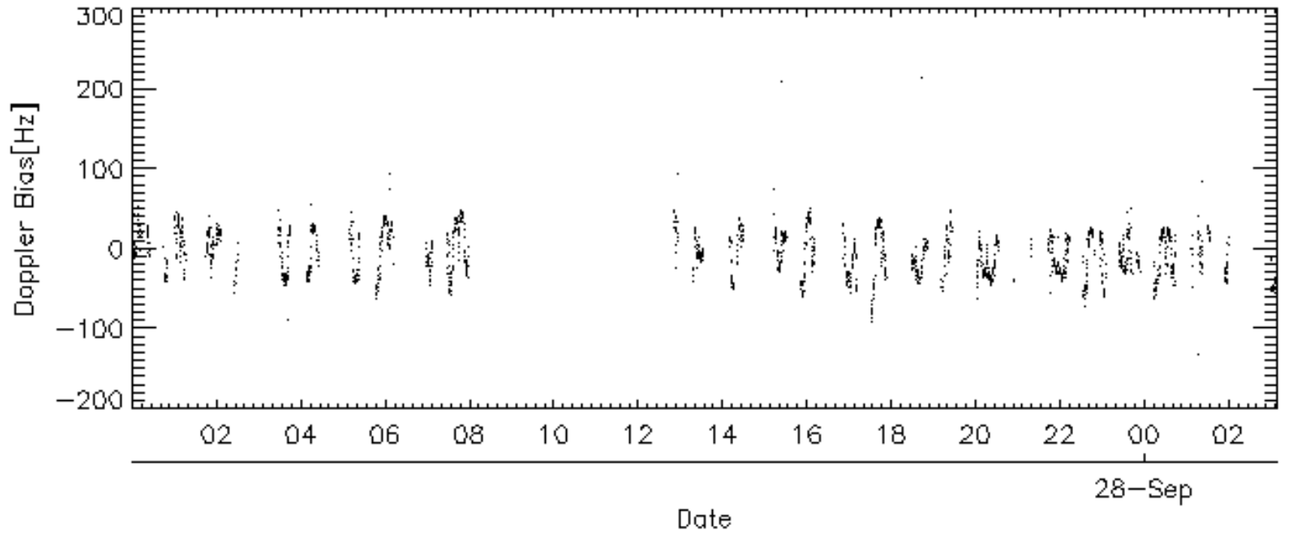

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

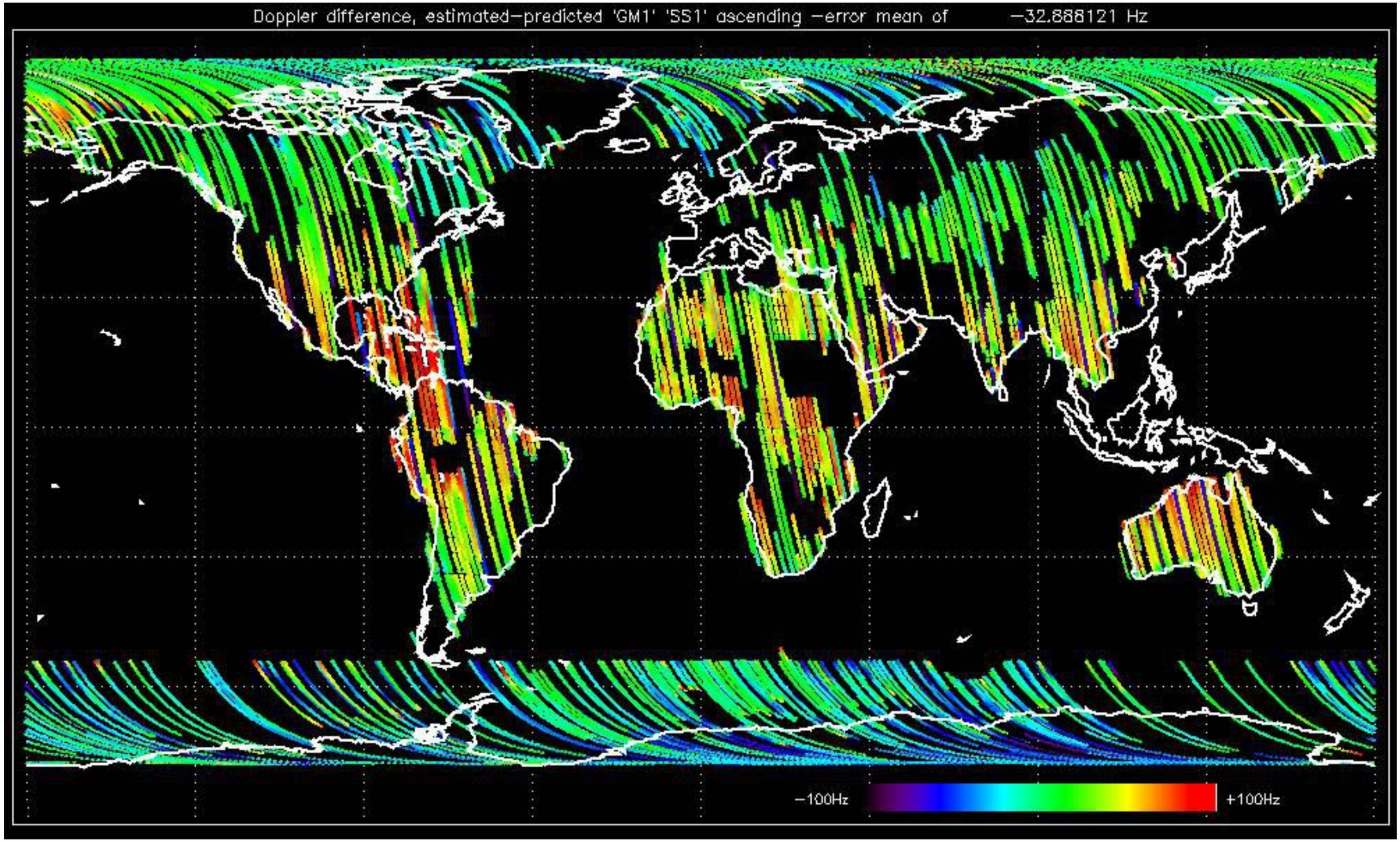

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

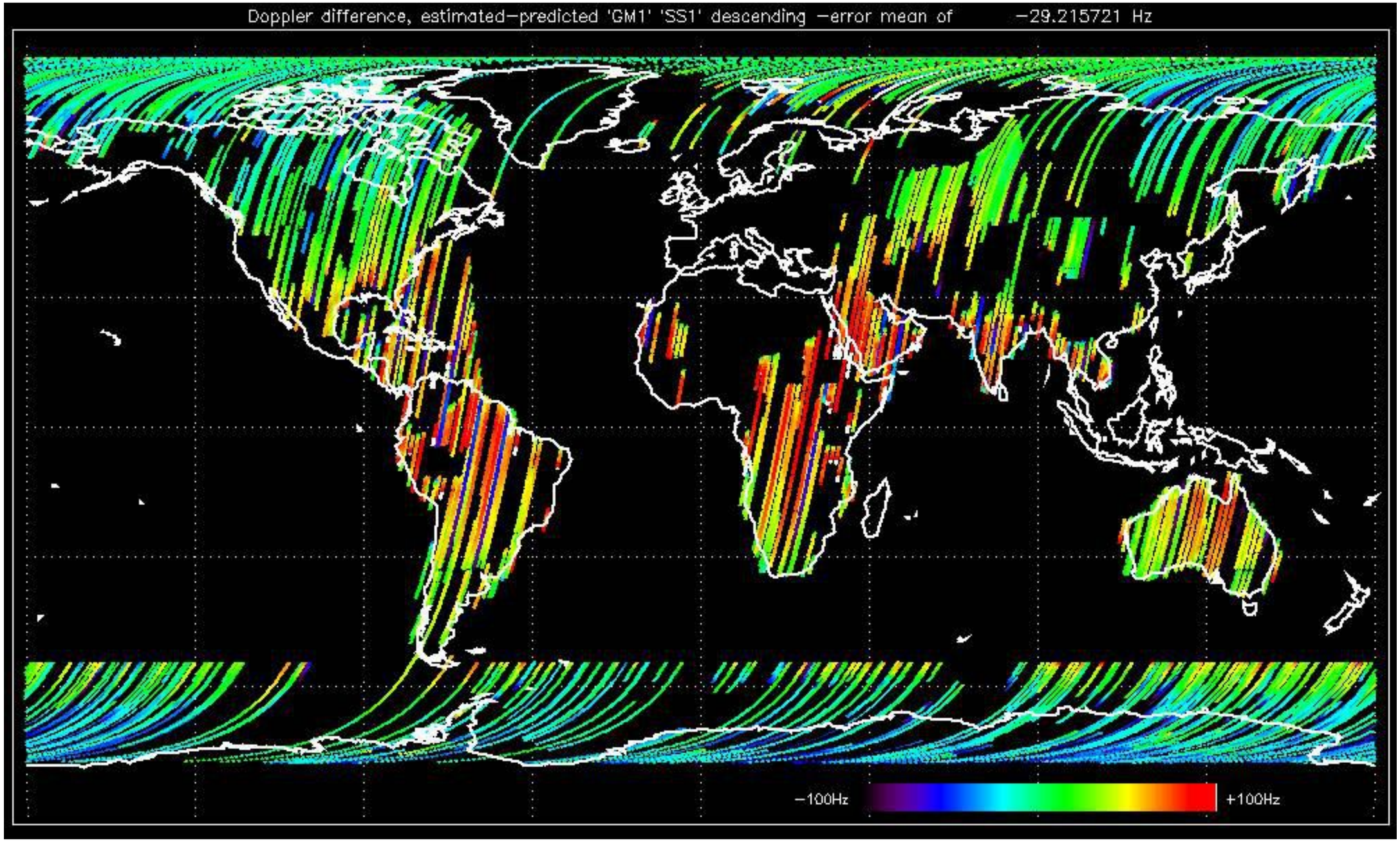

Doppler Bias[Hz]
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
28−Sep
Date

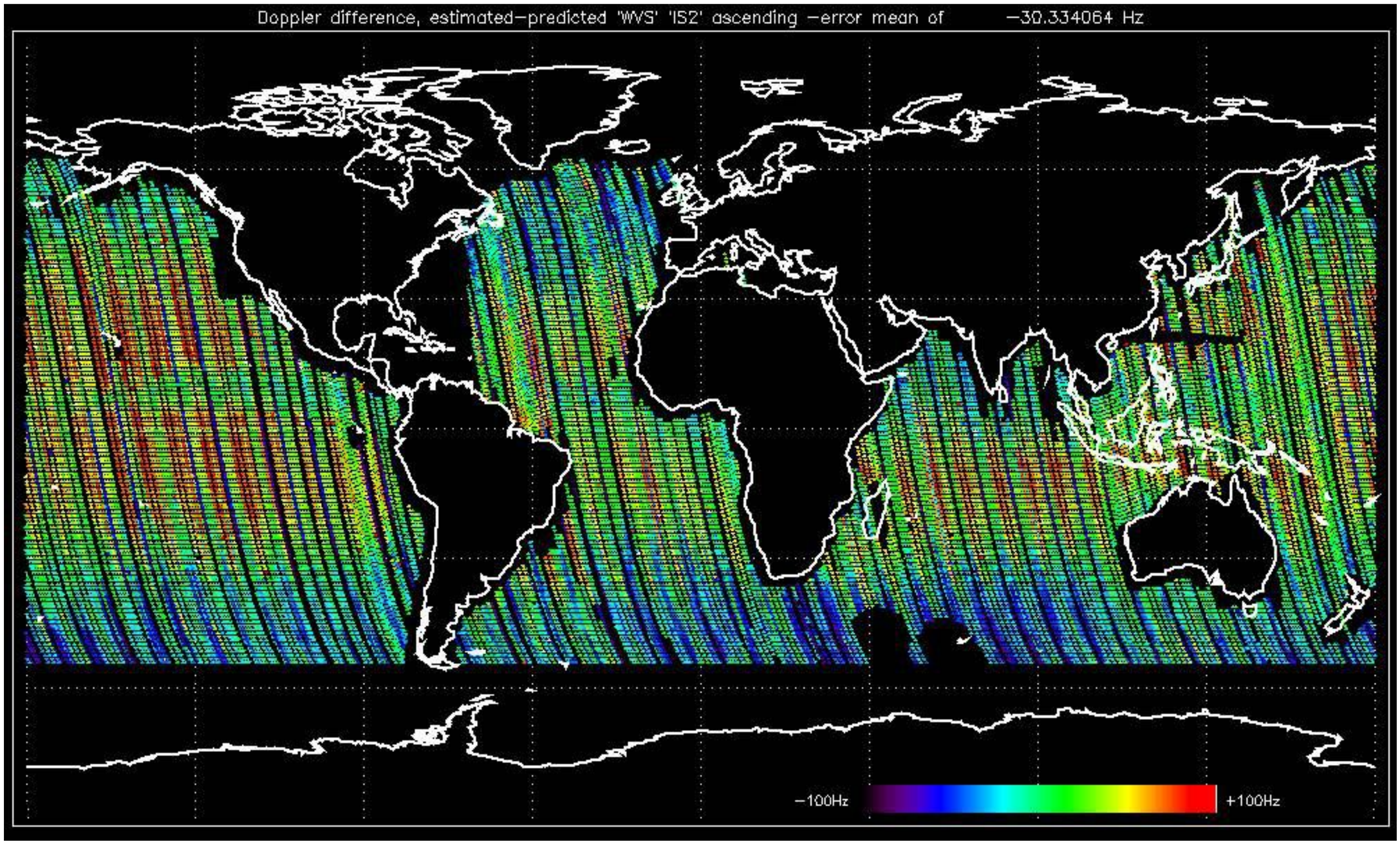

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

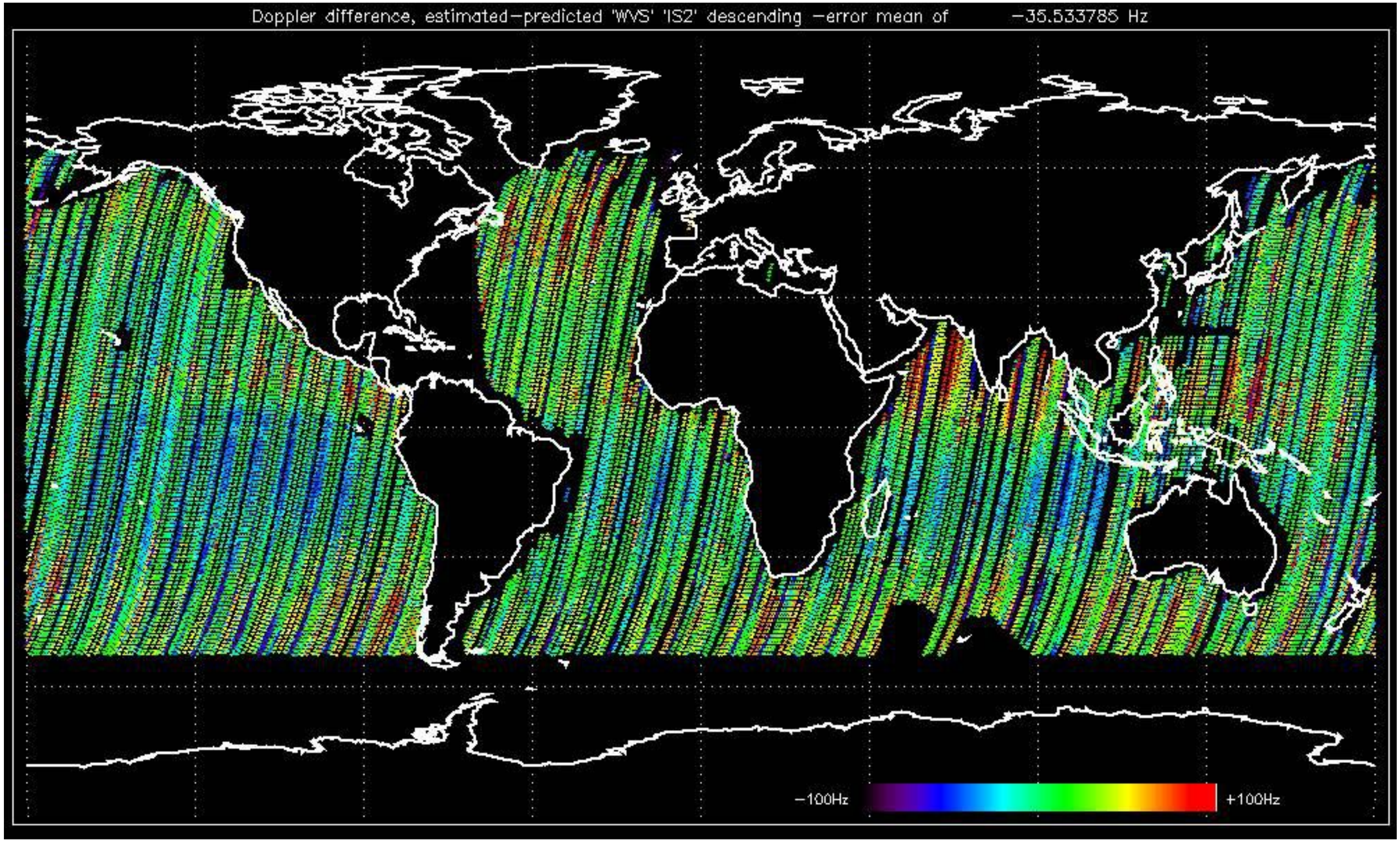

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −32.888121 Hz
−100Hz
+100Hz

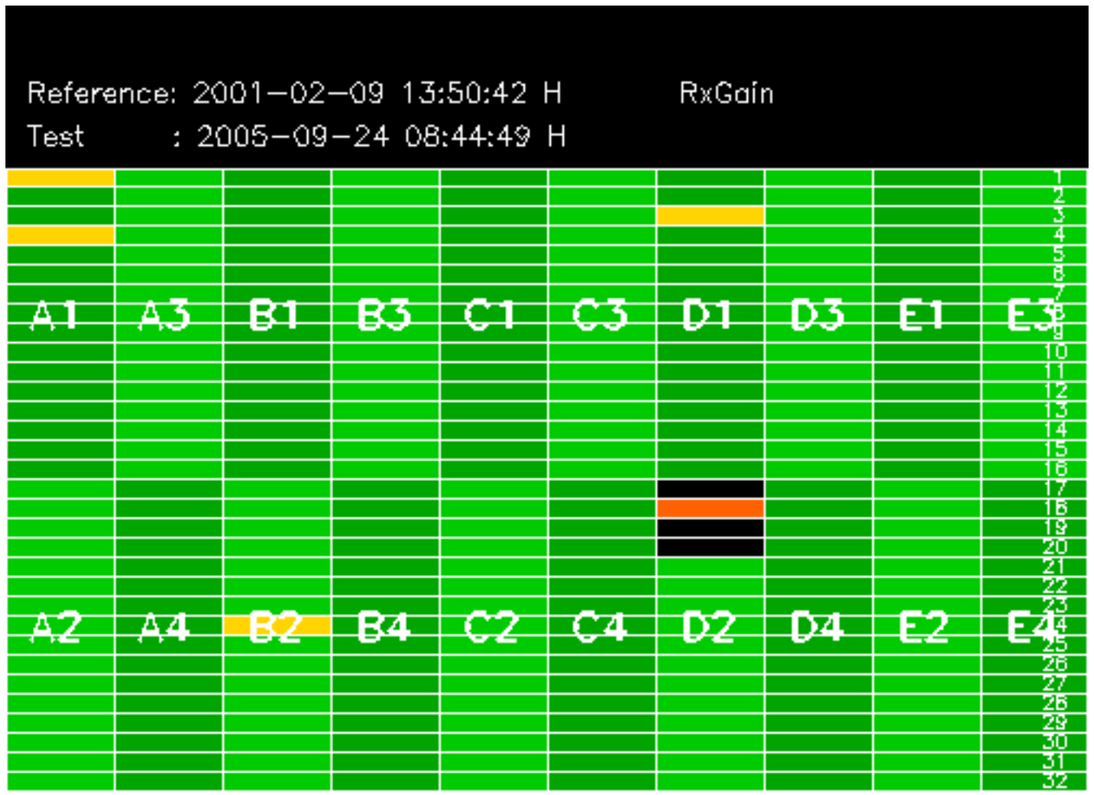

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -29.215721 Hz
-100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −30.334064 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −35.533785 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2005-09-24 08:44:49 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
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
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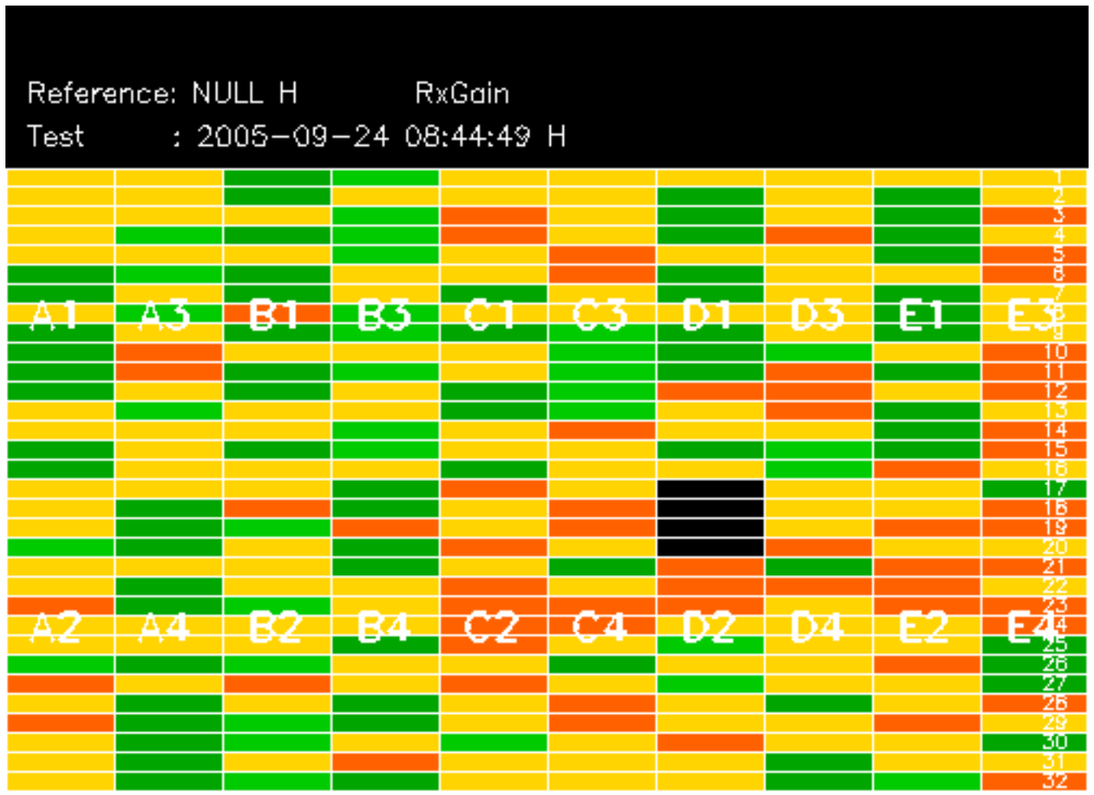
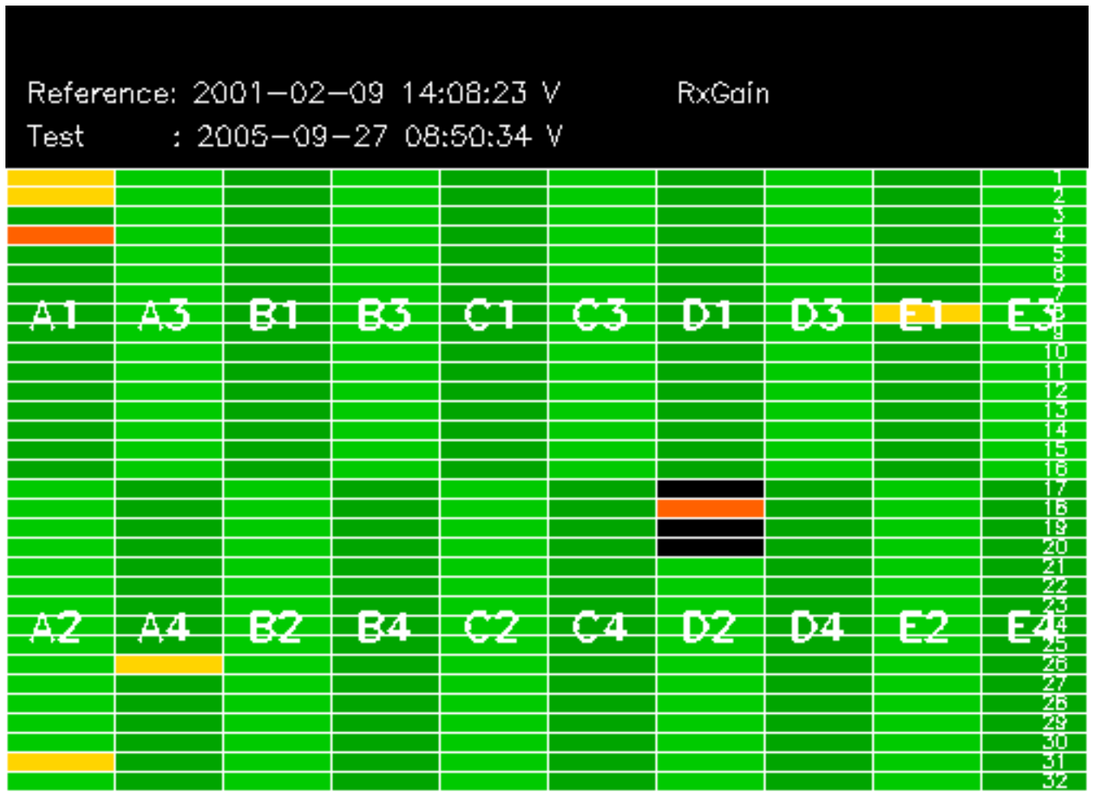
20
21
22
23
24
25
26
27
28
29
30
31
32


Reference: NULL H RxGain
Test : 2005-09-24 08:44:49 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 : 2005-09-27 08:50:34 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
5
6
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8
9
10
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14
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26
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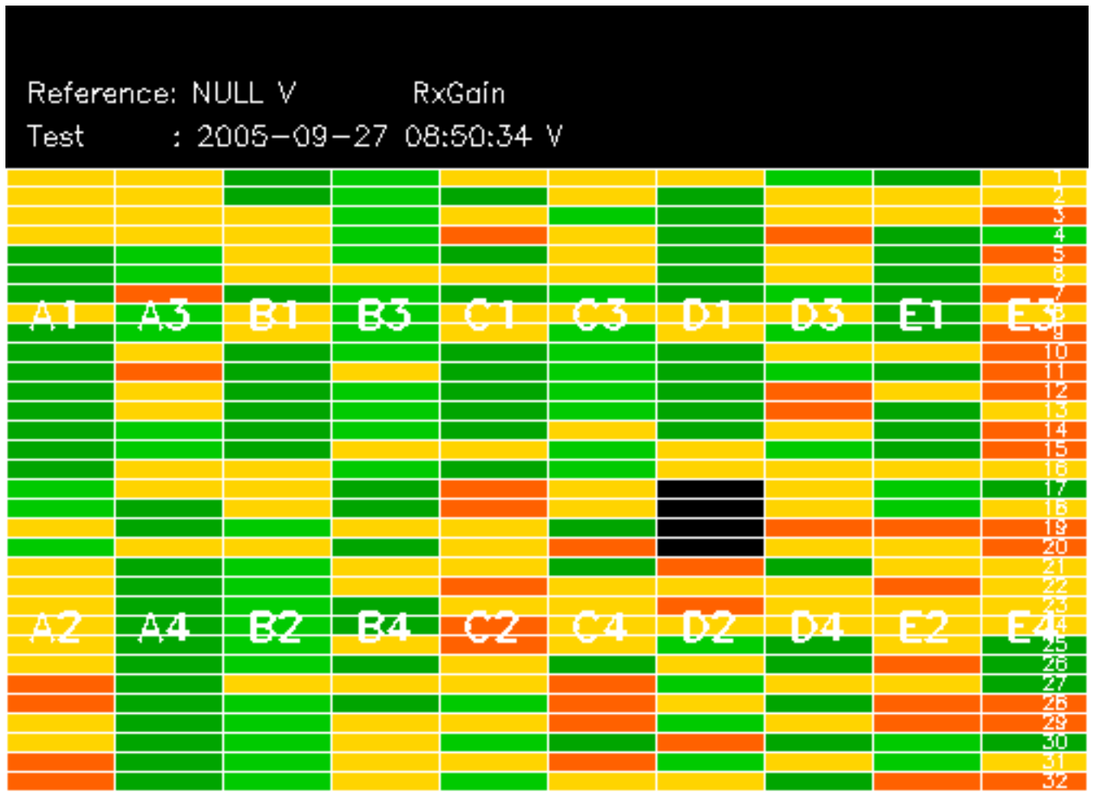
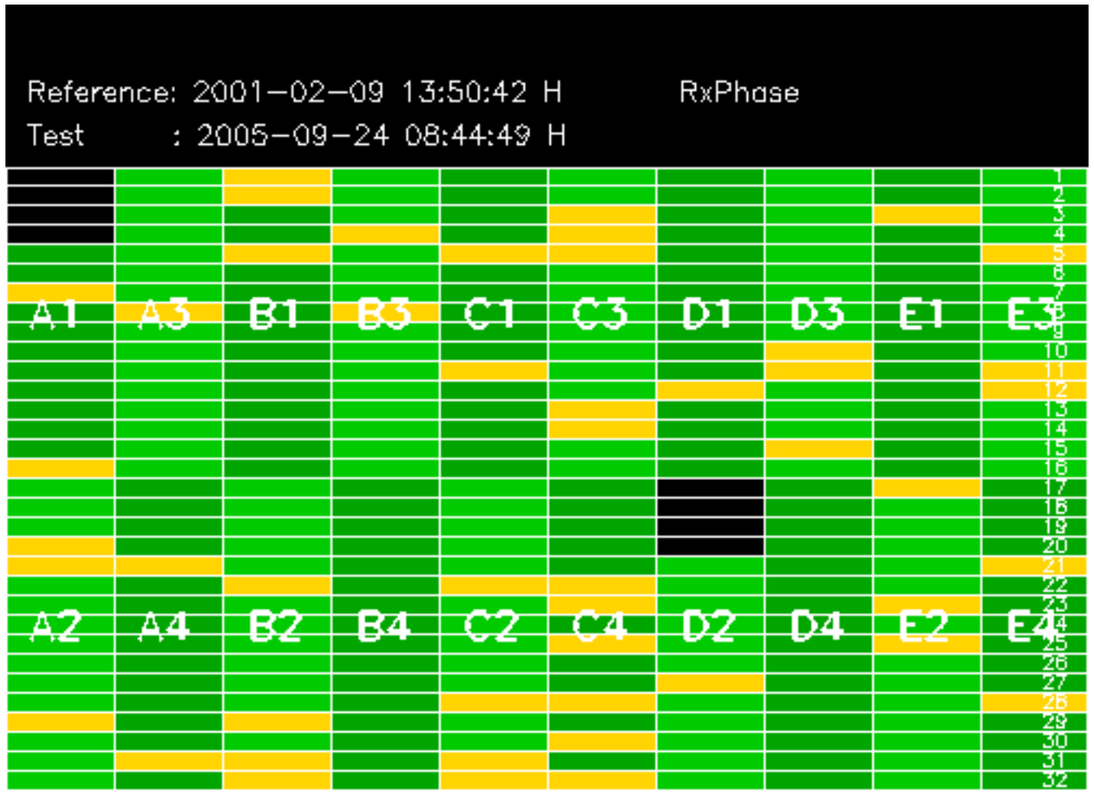
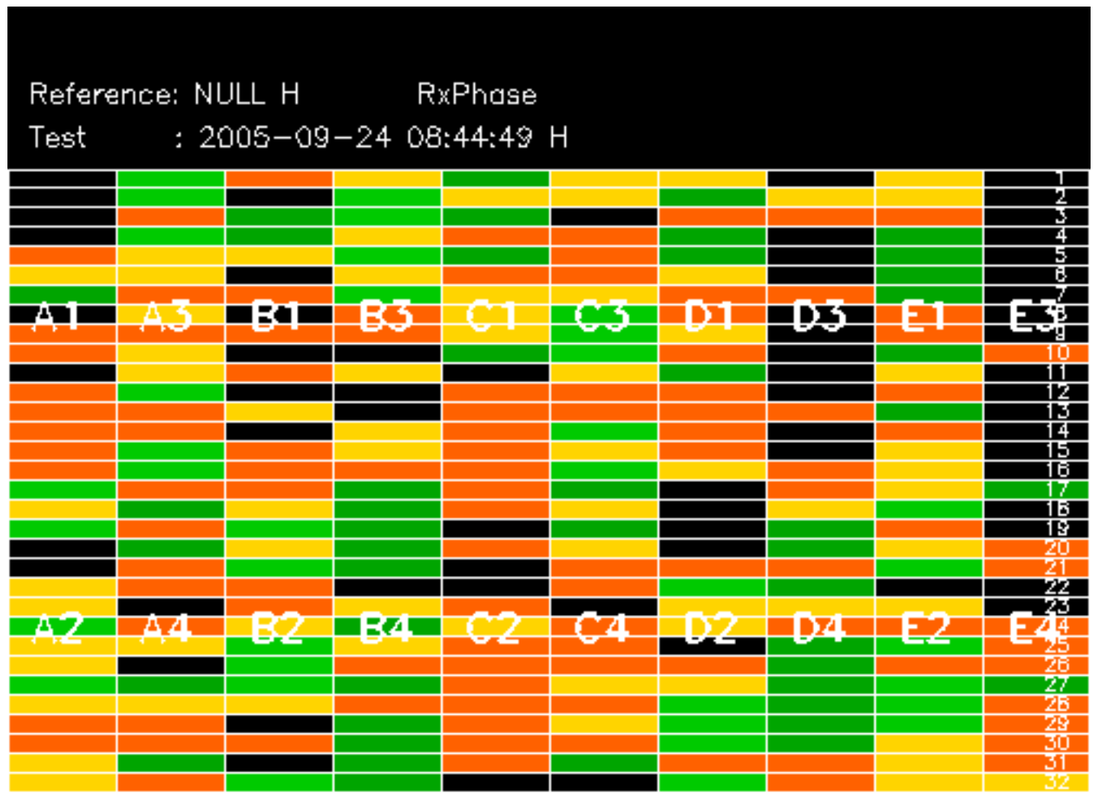
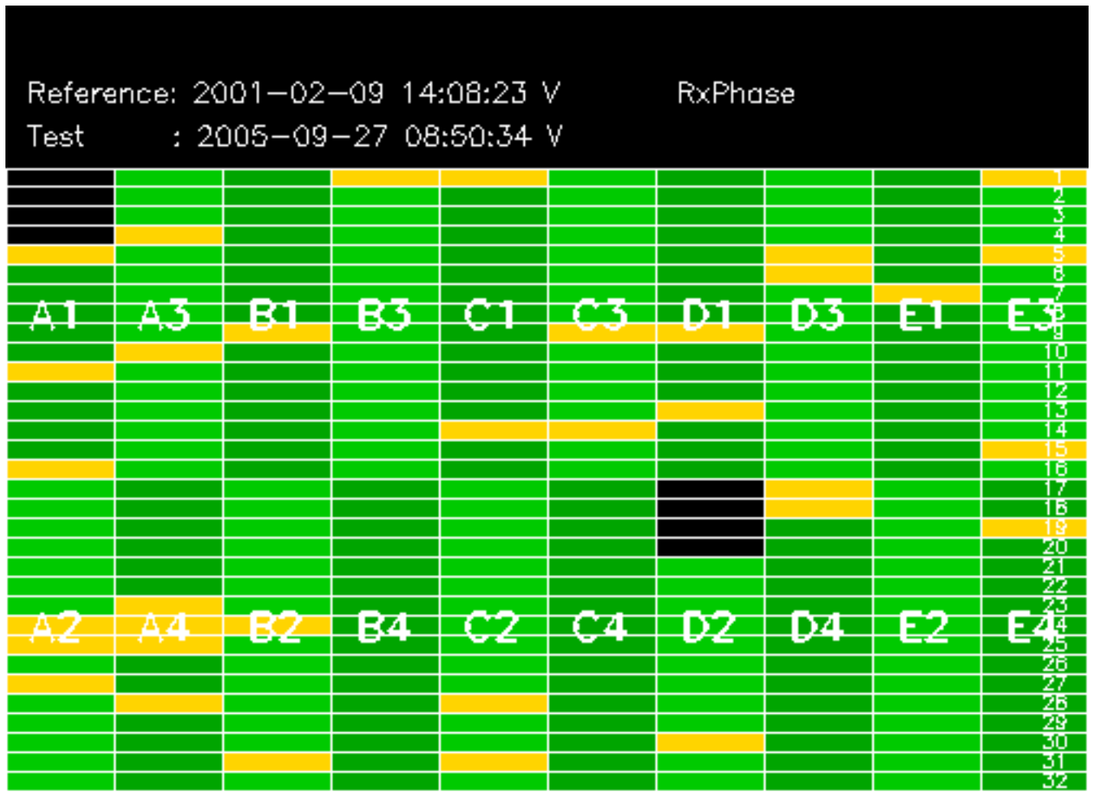
29
30
31
32


Reference: NULL V RxGain
Test : 2005-09-27 08:50:34 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 : 2005-09-24 08:44:49 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 : 2005-09-24 08:44:49 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 : 2005-09-27 08:50:34 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
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8
9
10
11
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27
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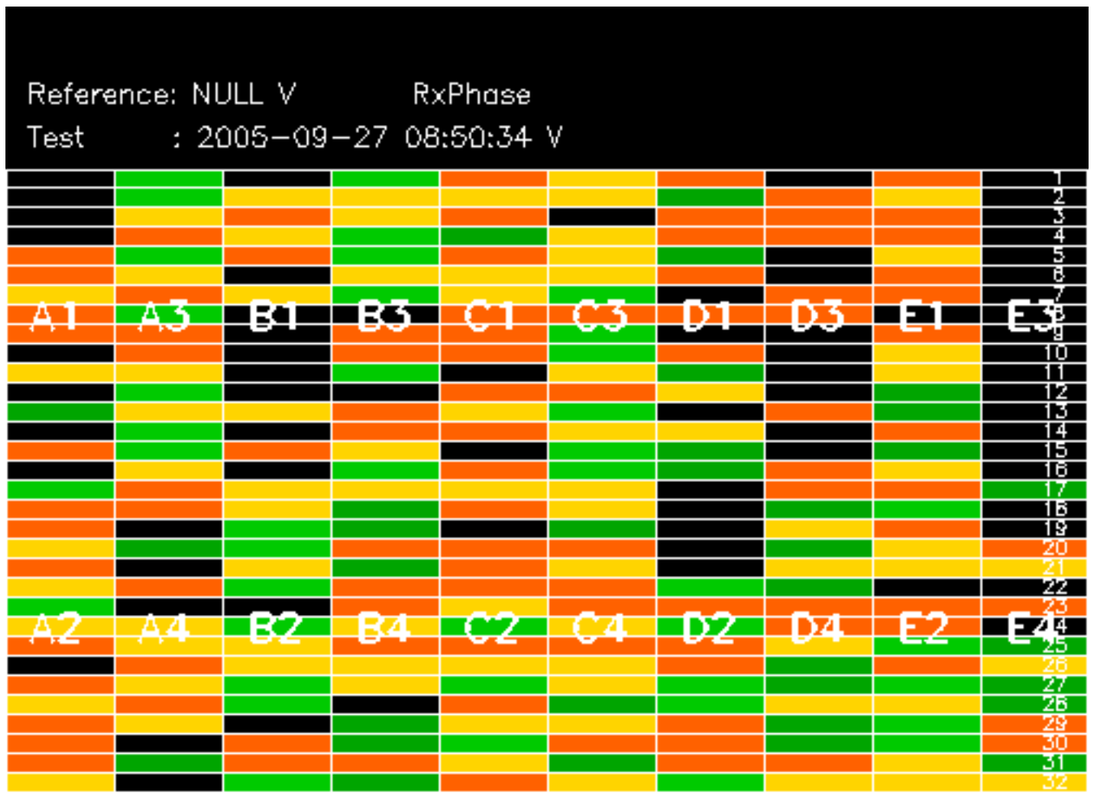
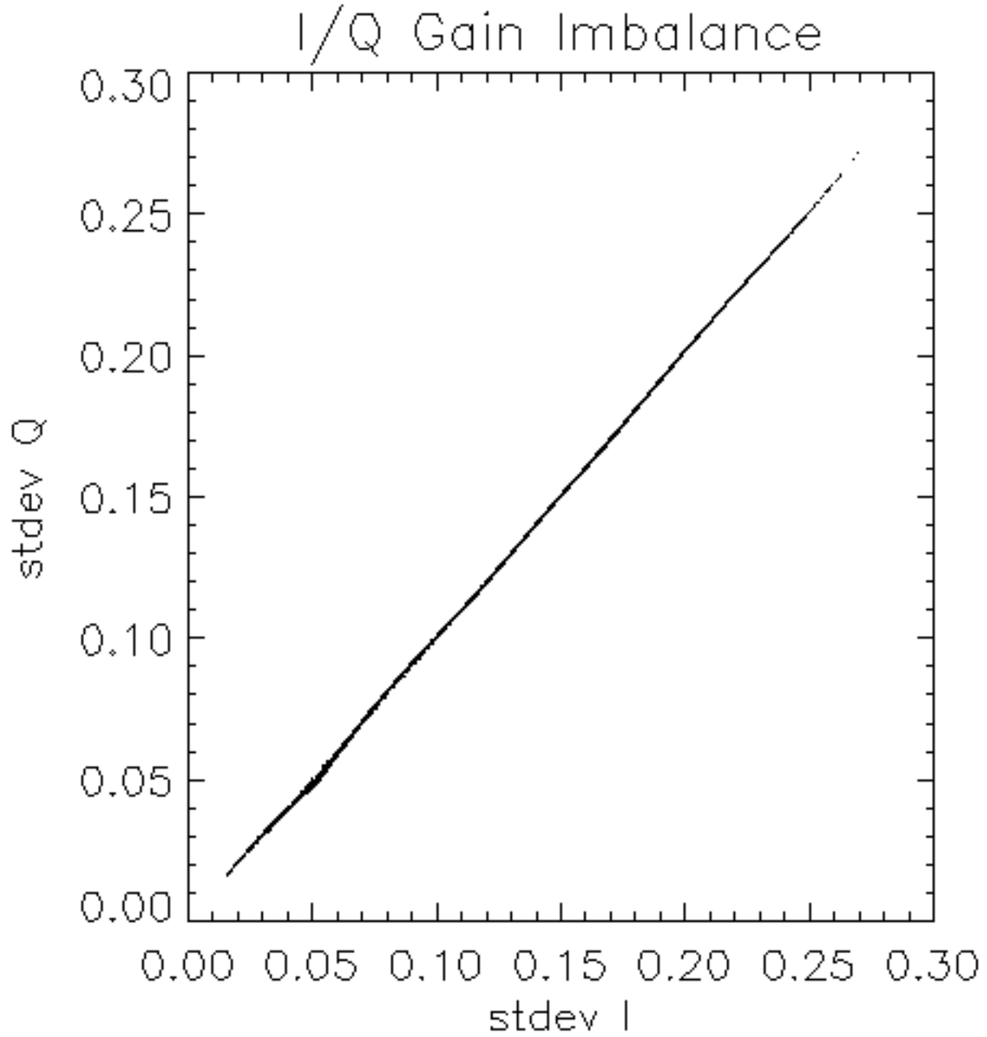
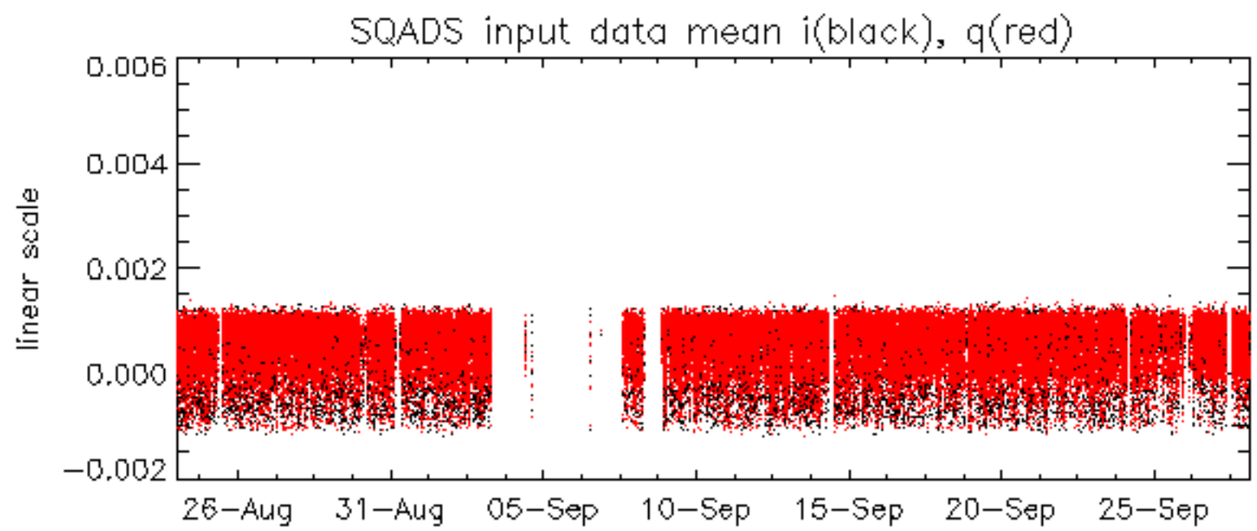
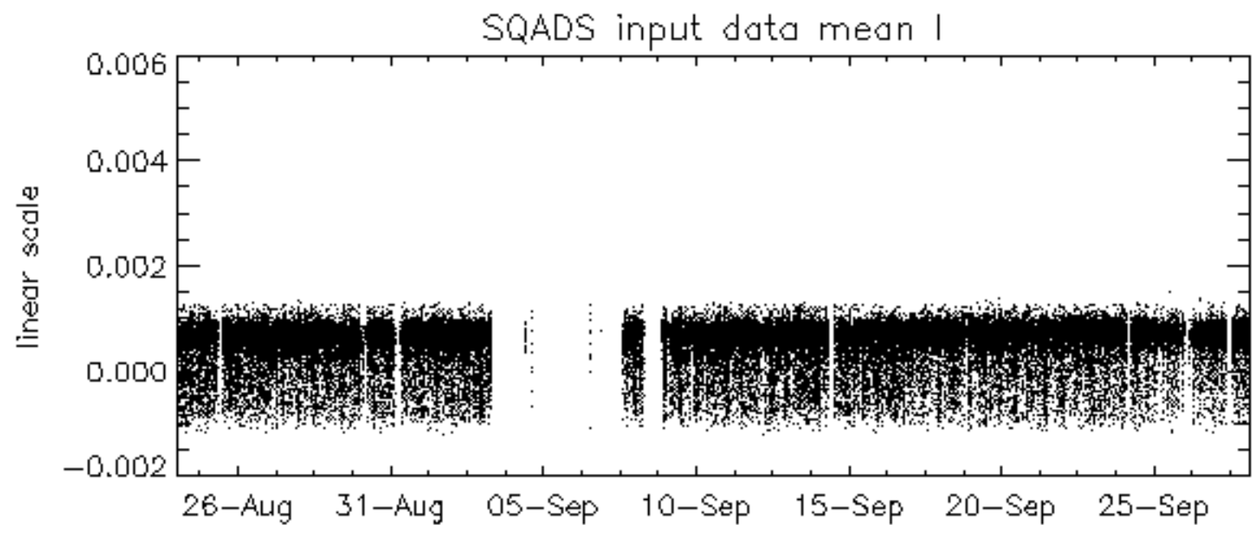
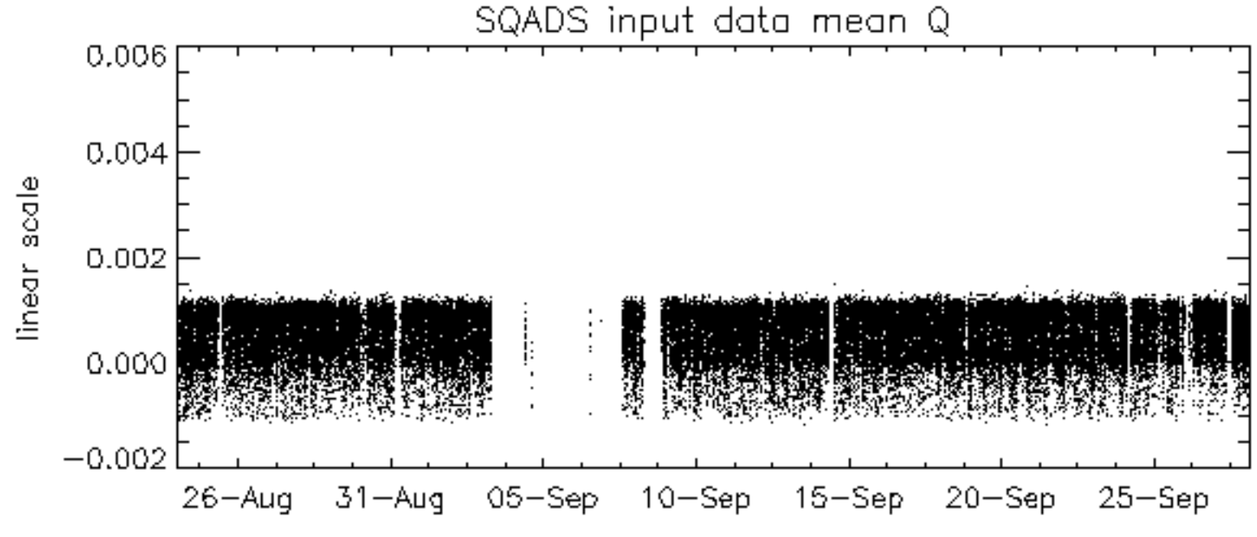
29
30
31
32

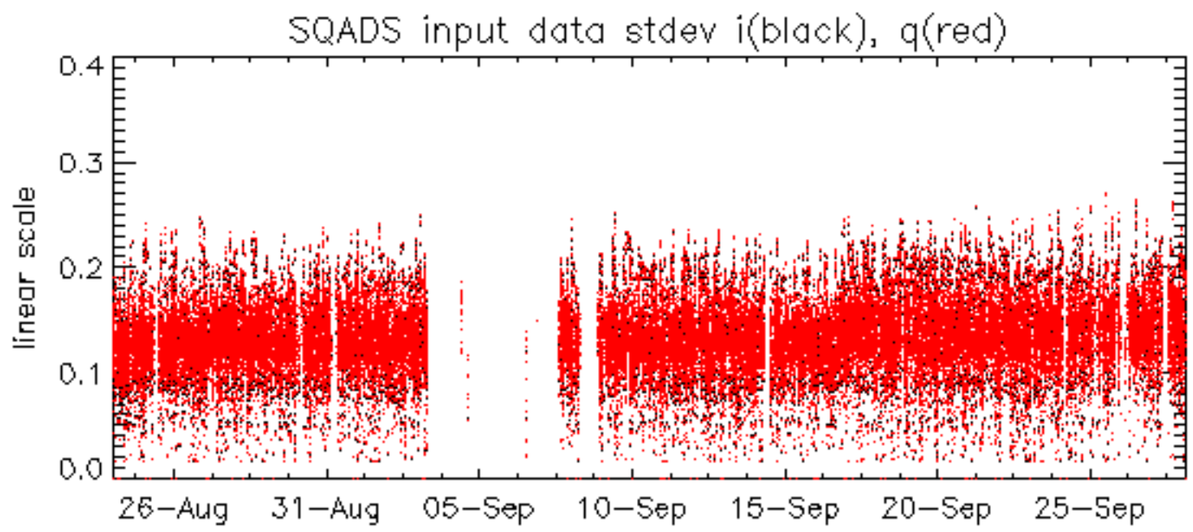

Reference: NULL V RxPhase
Test : 2005-09-27 08:50:34 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

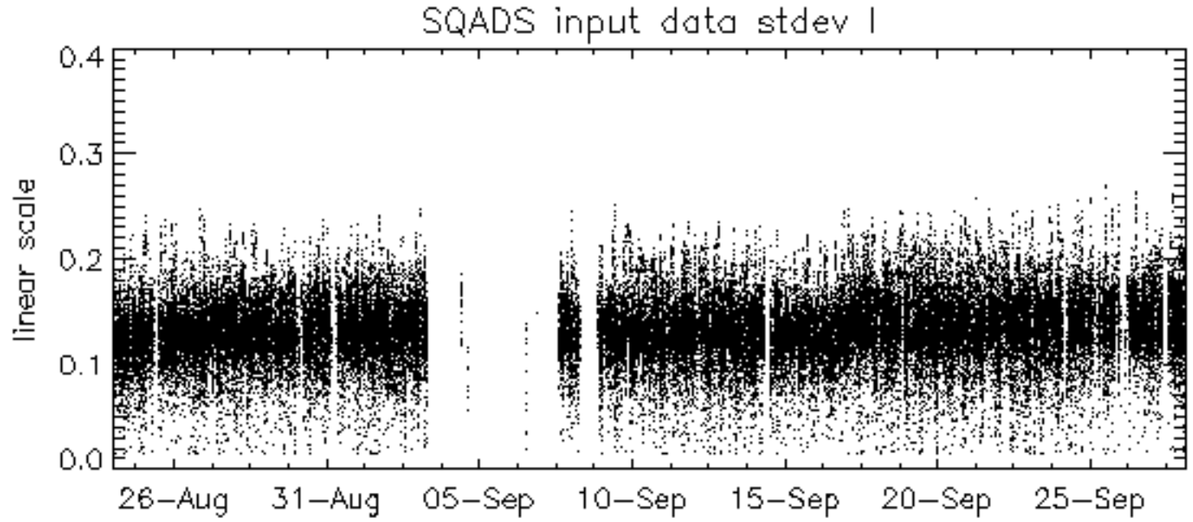

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

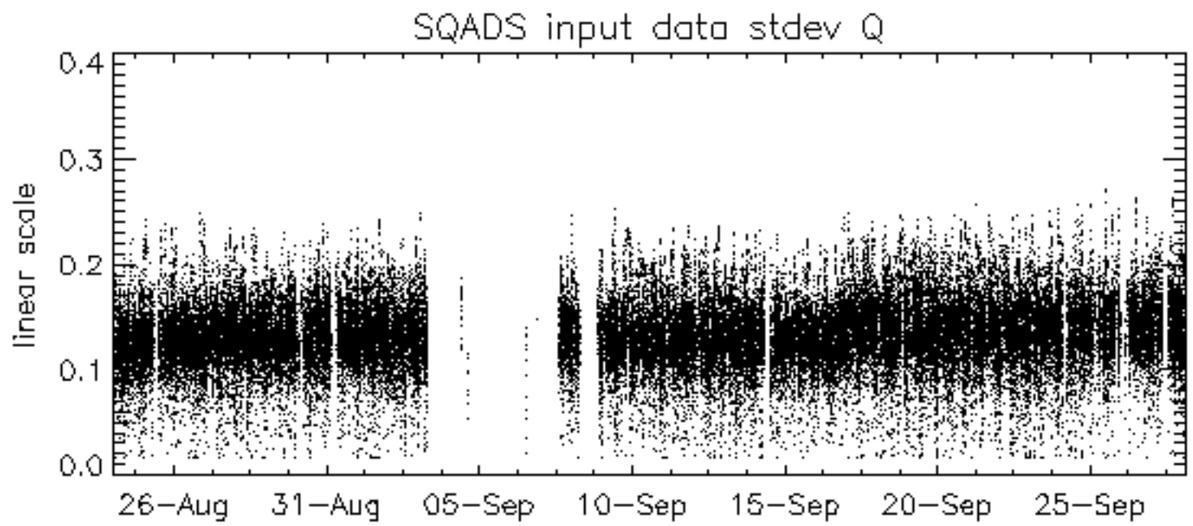

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep
25−Sep

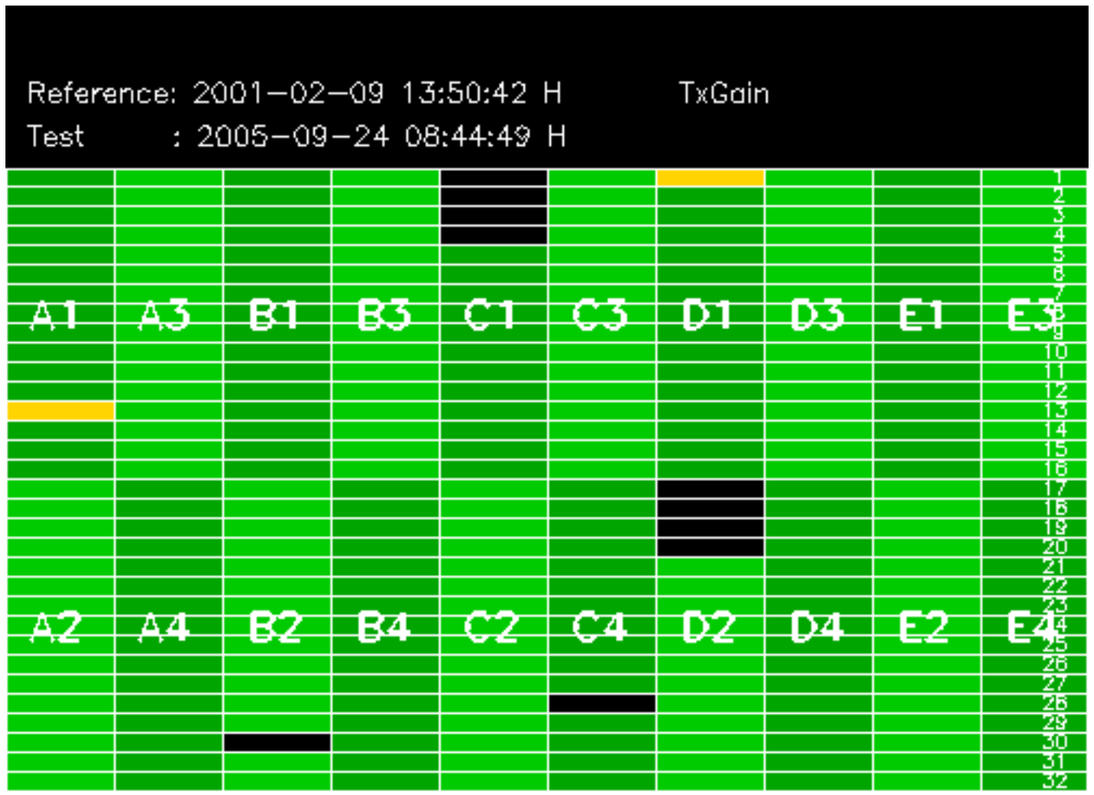

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep
25−Sep


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep
25−Sep


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep
25−Sep


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep
25−Sep


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
26−Aug
31−Aug
05−Sep
10−Sep
15−Sep
20−Sep
25−Sep


Reference: 2001-02-09 13:50:42 H
Test : 2005-09-24 08:44:49 H
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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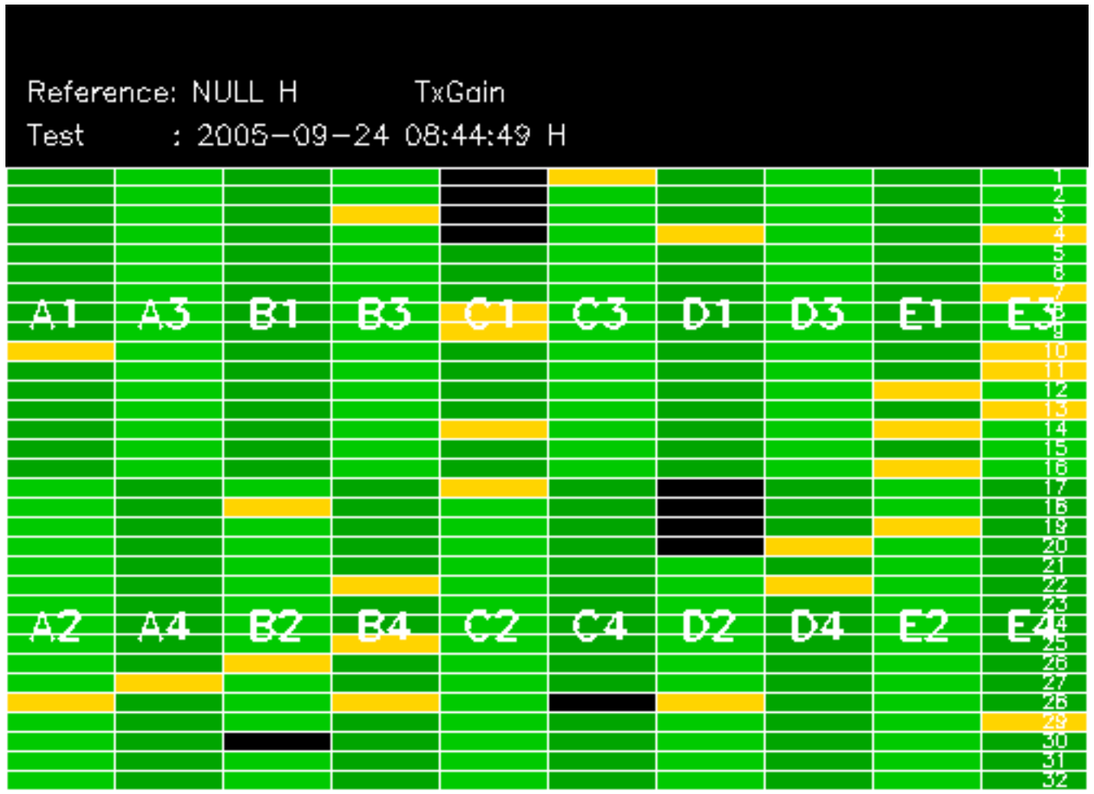
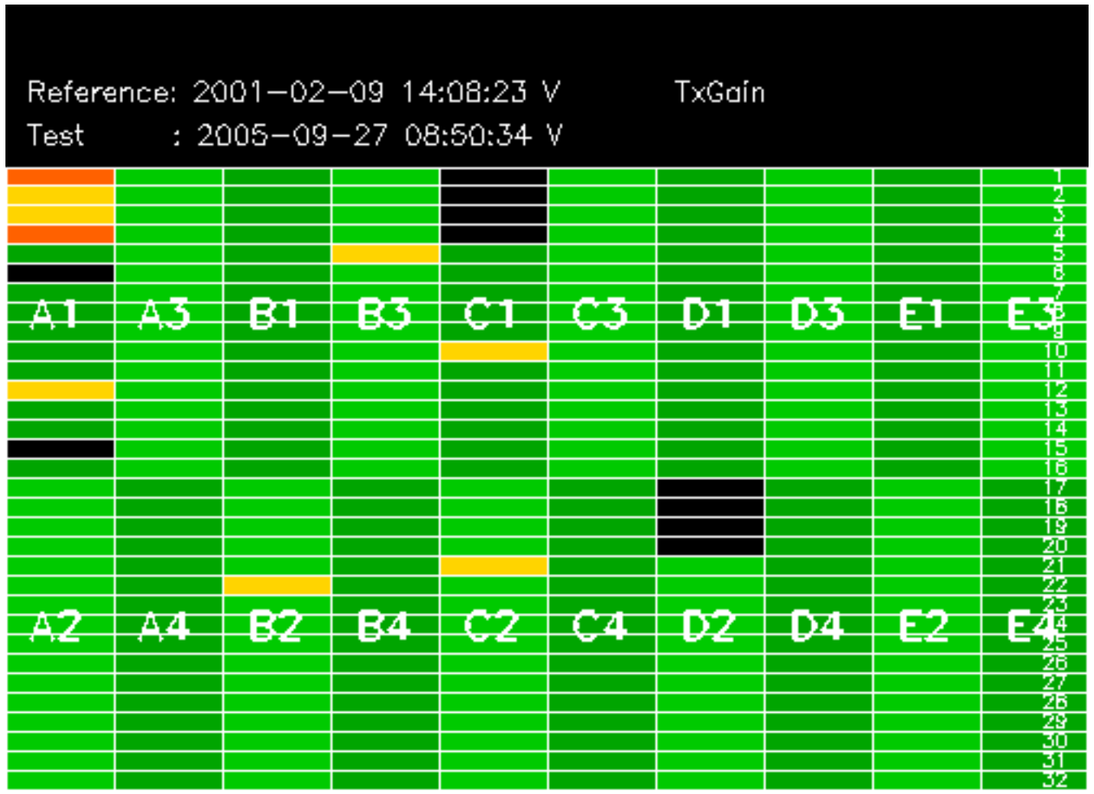

Reference: NULL H TxGain
Test : 2005-09-24 08:44:49 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2005-09-27 08:50:34 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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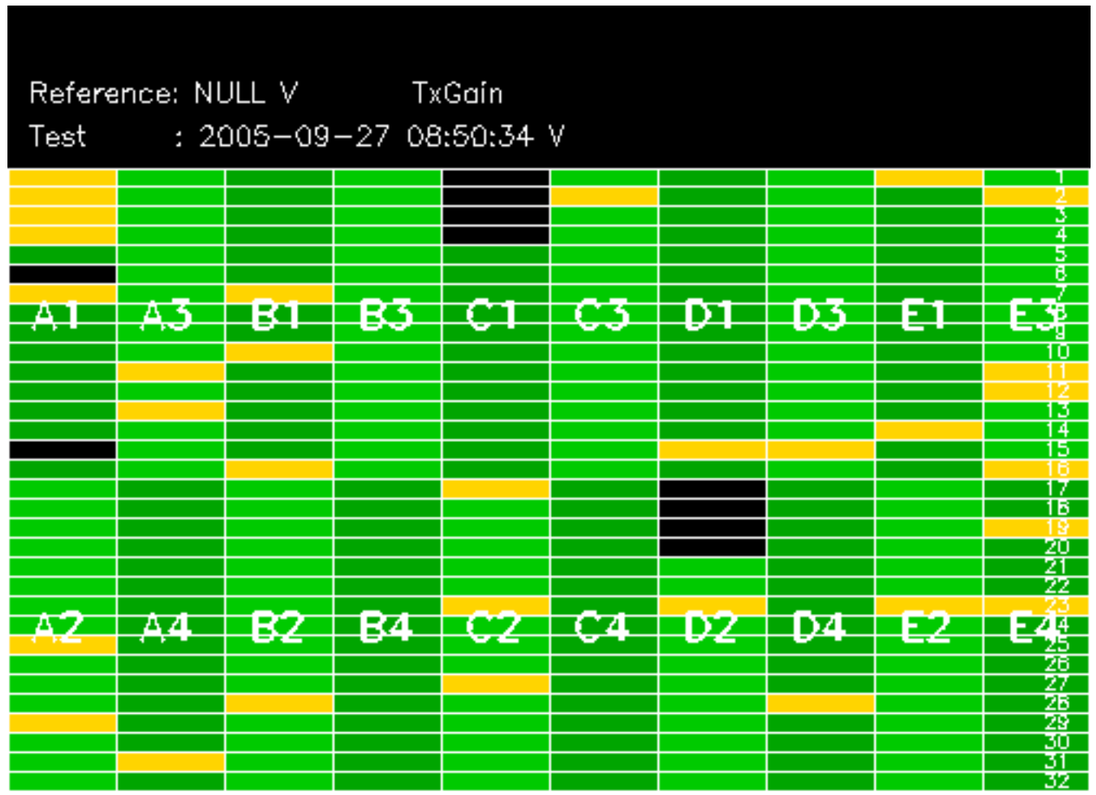
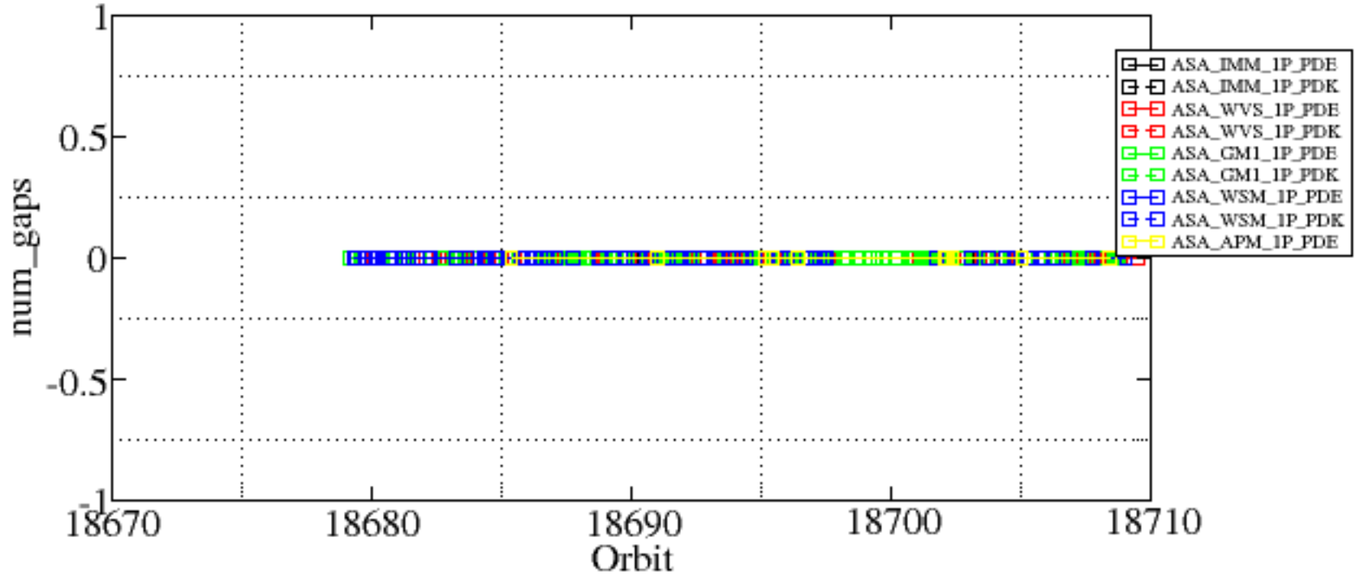
32

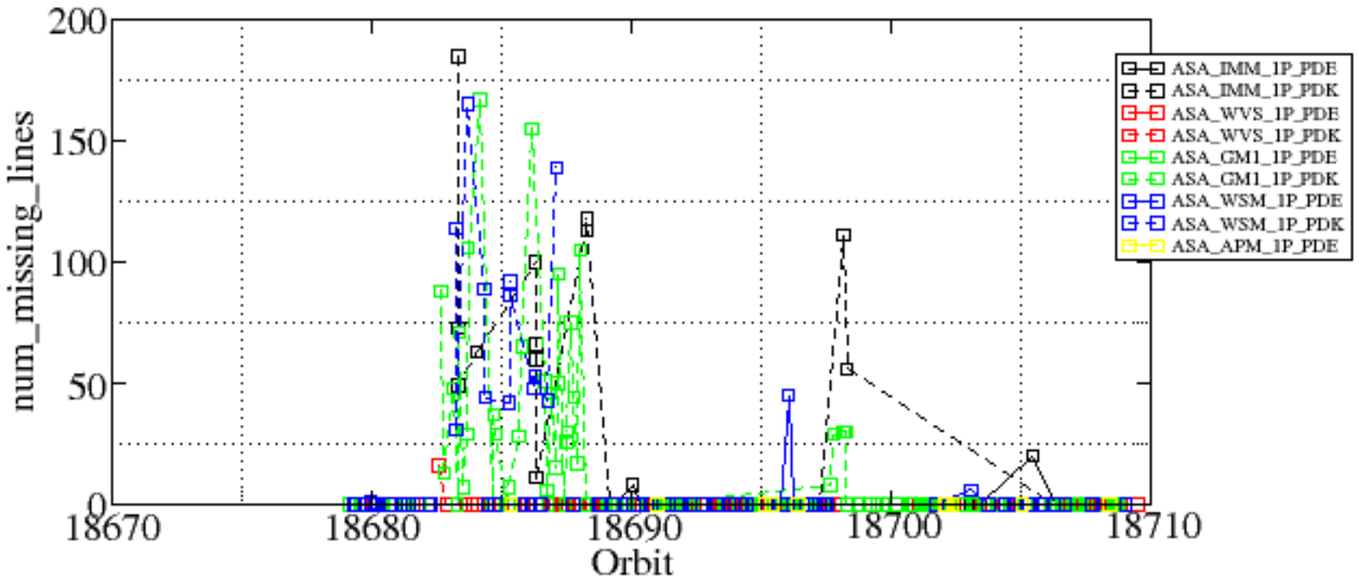

Reference: NULL V TxGain
Test : 2005-09-27 08:50:34 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

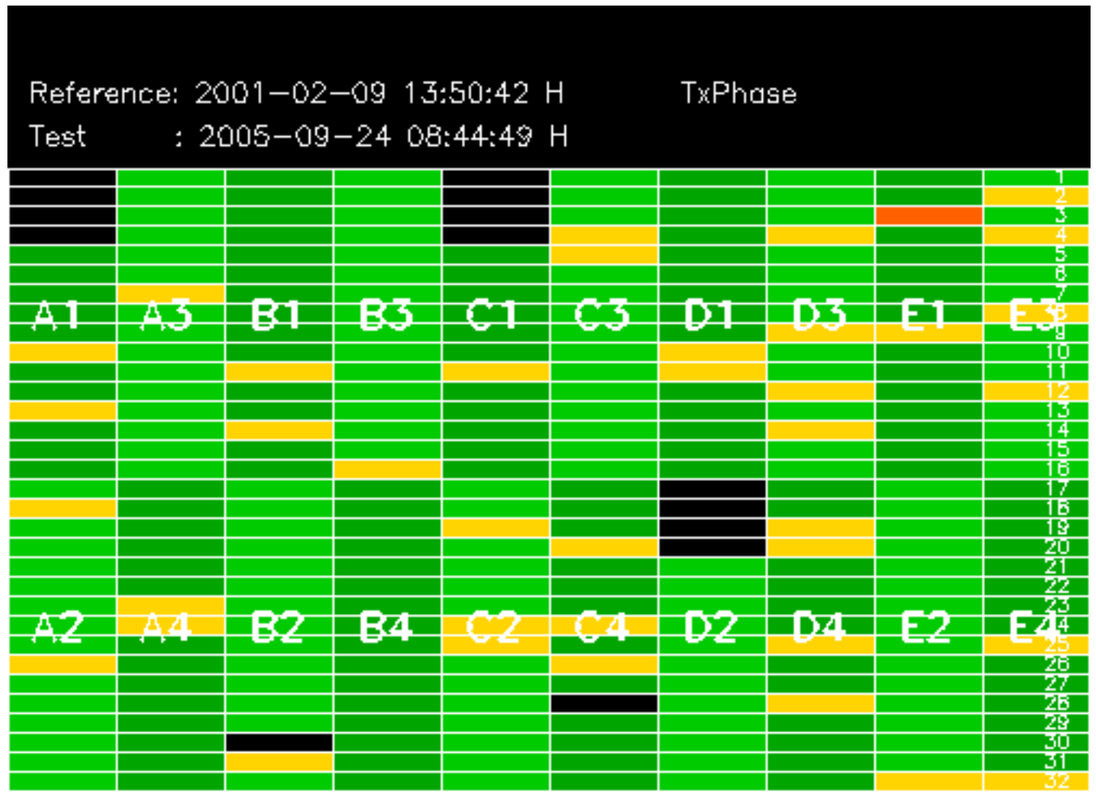
Summary of analysis for the last 3 days 2005092[678]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

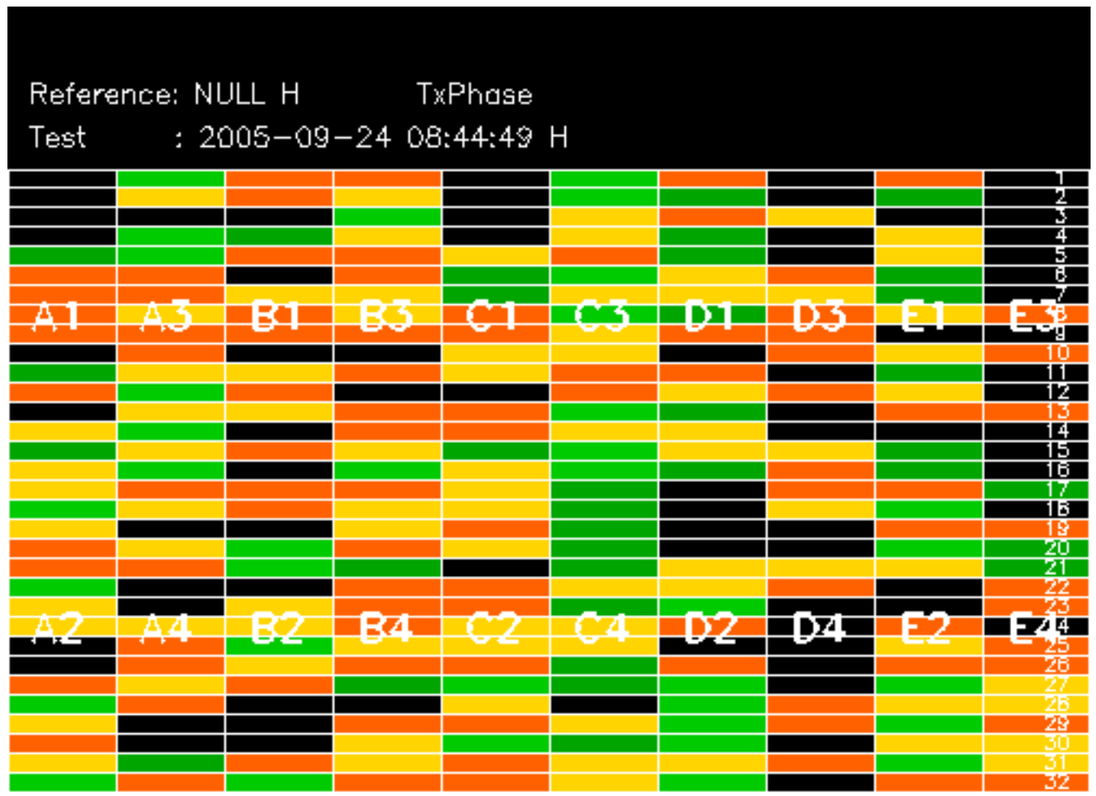
Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20050926_182349_000000352041_00099_18690_6722.N1	0	8
ASA_IMM_1PNPDE20050927_201157_000000522041_00114_18705_6811.N1	0	20
ASA_IMM_1PNPDK20050926_070621_000000622041_00092_18683_4751.N1	0	185
ASA_IMM_1PNPDK20050926_070723_000000192041_00092_18683_4849.N1	0	73
ASA_IMM_1PNPDK20050926_070822_000000602041_00092_18683_4752.N1	0	49
ASA_IMM_1PNPDK20050926_081954_000000152041_00093_18684_4754.N1	0	63
ASA_IMM_1PNPDK20050926_120645_000000622041_00095_18686_4758.N1	0	100
ASA_IMM_1PNPDK20050926_120747_000000272041_00095_18686_4851.N1	0	60
ASA_IMM_1PNPDK20050926_120846_000000272041_00095_18686_4759.N1	0	66
ASA_IMM_1PNPDK20050926_120913_000000072041_00095_18686_4857.N1	0	11
ASA_IMM_1PNPDK20050926_152355_000000622041_00097_18688_4763.N1	0	113
ASA_IMM_1PNPDK20050926_152556_000000502041_00097_18688_4764.N1	0	118
ASA_IMM_1PNPDK20050927_075833_000000682041_00107_18698_4860.N1	0	111
ASA_IMM_1PNPDK20050927_081402_000000212041_00107_18698_4855.N1	0	56
ASA_WVS_1PNPDK20050926_055320_000003302041_00091_18682_1605.N1	0	16
ASA_GM1_1PNPDK20050926_055937_000005982041_00091_18682_6530.N1	0	88
ASA_GM1_1PNPDK20050926_061117_000001932041_00091_18682_6533.N1	0	13
ASA_GM1_1PNPDK20050926_065026_000005372041_00092_18683_6534.N1	0	48
ASA_GM1_1PNPDK20050926_071049_000007732041_00092_18683_6540.N1	0	71
ASA_GM1_1PNPDK20050926_072553_000001502041_00092_18683_6542.N1	0	7
ASA_GM1_1PNPDK20050926_073927_000002292041_00092_18683_6545.N1	0	29
ASA_GM1_1PNPDK20050926_074503_000008452041_00092_18683_6538.N1	0	106
ASA_GM1_1PNPDK20050926_083112_000007792041_00093_18684_6539.N1	0	167
ASA_GM1_1PNPDK20050926_092334_000004282041_00093_18684_6551.N1	0	37
ASA_GM1_1PNPDK20050926_093227_000004342041_00093_18684_6550.N1	0	29
ASA_GM1_1PNPDK20050926_102220_000001812041_00094_18685_6564.N1	0	7
ASA_GM1_1PNPDK20050926_110125_000006042041_00094_18685_6560.N1	0	28
ASA_GM1_1PNPDK20050926_111314_000004282041_00094_18685_6562.N1	0	65
ASA_GM1_1PNPDK20050926_115256_000004952041_00095_18686_6561.N1	0	155
ASA_GM1_1PNPDK20050926_124201_000004952041_00095_18686_6567.N1	0	51
ASA_GM1_1PNPDK20050926_125018_000000962041_00095_18686_6691.N1	0	6
ASA_GM1_1PNPDK20050926_130524_000004652041_00095_18686_6570.N1	0	46
ASA_GM1_1PNPDK20050926_132615_000000662041_00096_18687_6572.N1	0	15
ASA_GM1_1PNPDK20050926_132615_000000662041_00096_18687_6693.N1	0	15
ASA_GM1_1PNPDK20050926_133447_000003922041_00096_18687_6569.N1	0	50
ASA_GM1_1PNPDK20050926_133511_000009182041_00096_18687_6579.N1	0	95
ASA_GM1_1PNPDK20050926_140511_000002052041_00096_18687_6589.N1	0	26
ASA_GM1_1PNPDK20050926_141024_000000782041_00096_18687_6630.N1	0	30
ASA_GM1_1PNPDK20050926_141026_000000782041_00096_18687_6590.N1	0	30
ASA_GM1_1PNPDK20050926_142236_000005922041_00096_18687_6582.N1	0	75
ASA_GM1_1PNPDK20050926_143412_000004412041_00096_18687_6586.N1	0	44
ASA_GM1_1PNPDK20050926_144716_000002232041_00096_18687_6578.N1	0	17
ASA_GM1_1PNPDK20050926_145950_000009242041_00097_18688_6580.N1	0	105
ASA_GM1_1PNPDK20050926_145950_000009242041_00097_18688_6632.N1	0	105
ASA_GM1_1PNPDK20050927_070836_000005792041_00106_18697_6635.N1	0	8
ASA_GM1_1PNPDK20050927_072000_000004532041_00106_18697_6640.N1	0	29
ASA_GM1_1PNPDK20050927_075957_000005012041_00107_18698_6639.N1	0	30
ASA_GM1_1PNPDK20050927_081001_000001262041_00107_18698_6643.N1	0	30
ASA_WSM_1PNPDE20050926_012729_000001832041_00088_18679_0630.N1	0	1
ASA_WSM_1PNPDE20050927_042619_000003042041_00105_18696_0855.N1	0	45
ASA_WSM_1PNPDE20050927_161253_000000852041_00112_18703_0924.N1	0	6
ASA_WSM_1PNPDK20050926_065933_000000672041_00092_18683_5042.N1	0	114
ASA_WSM_1PNPDK20050926_070040_000000122041_00092_18683_5146.N1	0	31
ASA_WSM_1PNPDK20050926_074327_000000862041_00092_18683_5056.N1	0	165
ASA_WSM_1PNPDK20050926_084808_000000552041_00093_18684_5050.N1	0	89
ASA_WSM_1PNPDK20050926_085004_000001652041_00093_18684_5051.N1	0	44
ASA_WSM_1PNPDK20050926_102532_000000672041_00094_18685_5064.N1	0	42
ASA_WSM_1PNPDK20050926_102740_000000552041_00094_18685_5065.N1	0	92
ASA_WSM_1PNPDK20050926_102936_000000482041_00094_18685_5066.N1	0	86
ASA_WSM_1PNPDK20050926_120228_000000302041_00095_18686_5120.N1	0	48
ASA_WSM_1PNPDK20050926_120328_000000552041_00095_18686_5072.N1	0	53
ASA_WSM_1PNPDK20050926_120524_000000302041_00095_18686_5073.N1	0	53
ASA_WSM_1PNPDK20050926_125309_000000182041_00095_18686_5085.N1	0	43
ASA_WSM_1PNPDK20050926_132730_000000672041_00096_18687_5073.N1	0	139

</table>

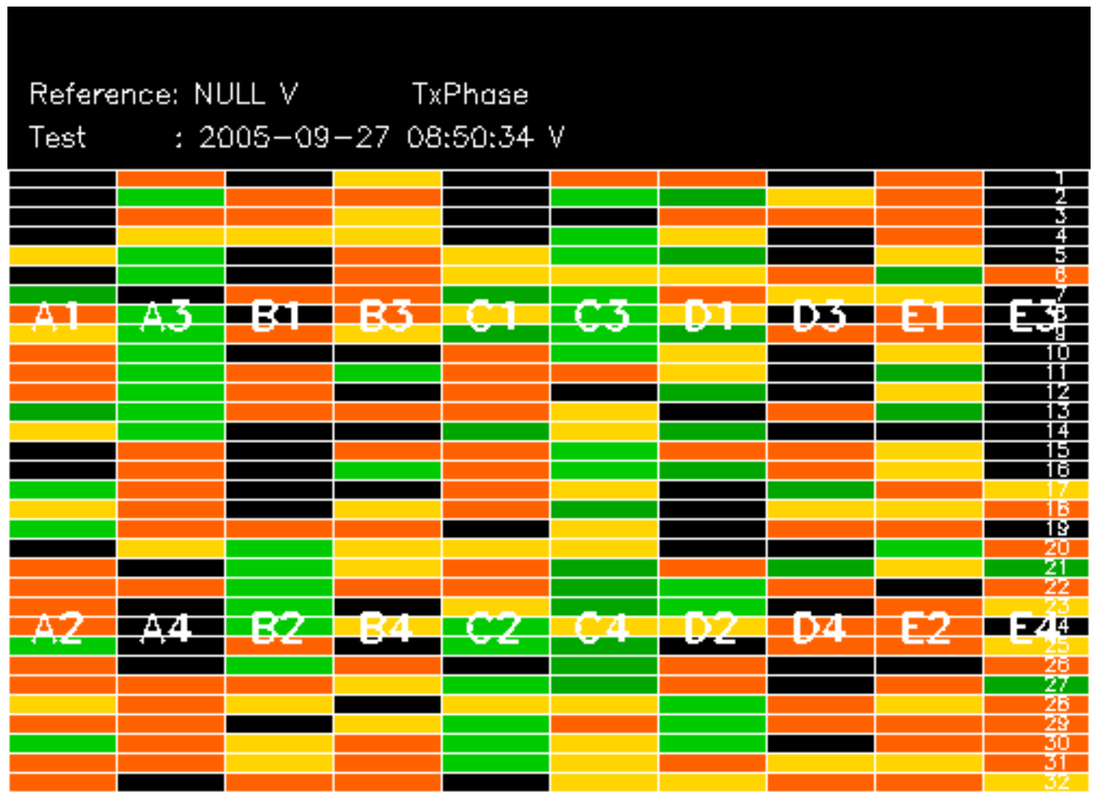

num_gaps
1
0.5
0
-0.5
-1
18670
18680
18690
18700
18710
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE

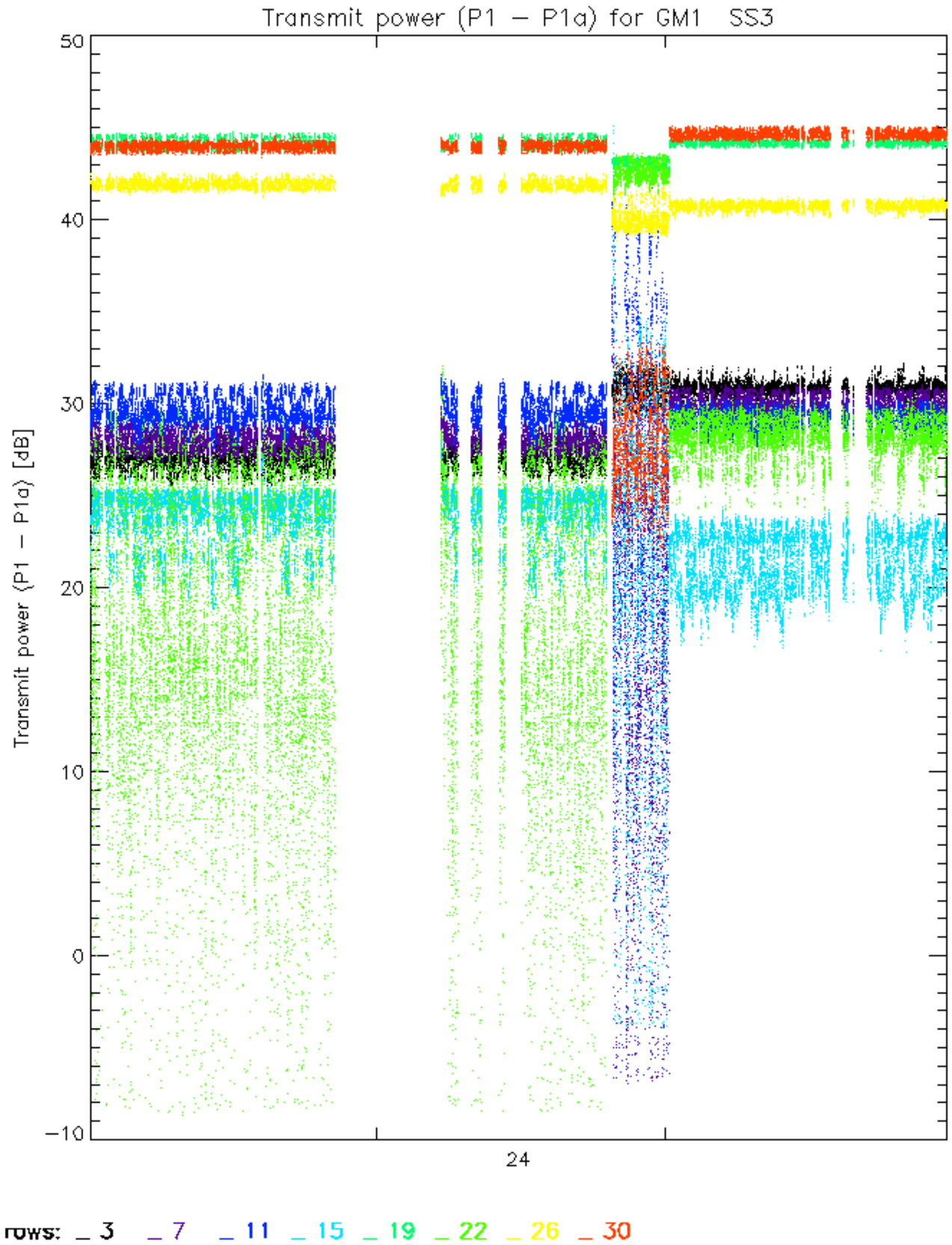

num_missing_lines
200
150
100
50
0
18670
18680
18690
18700
18710
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE

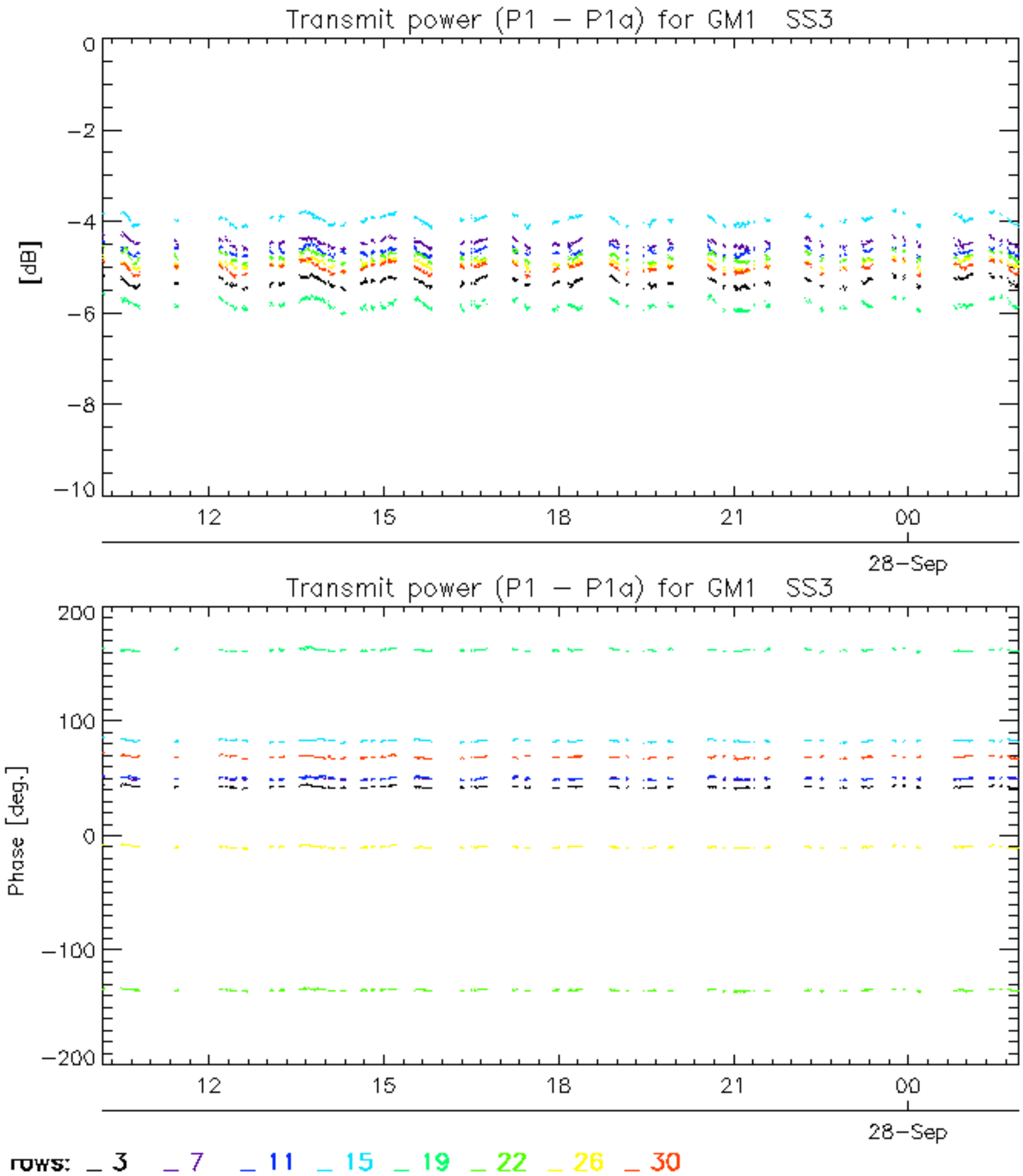

Reference: 2001-02-09 13:50:42 H
Test : 2005-09-24 08:44:49 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

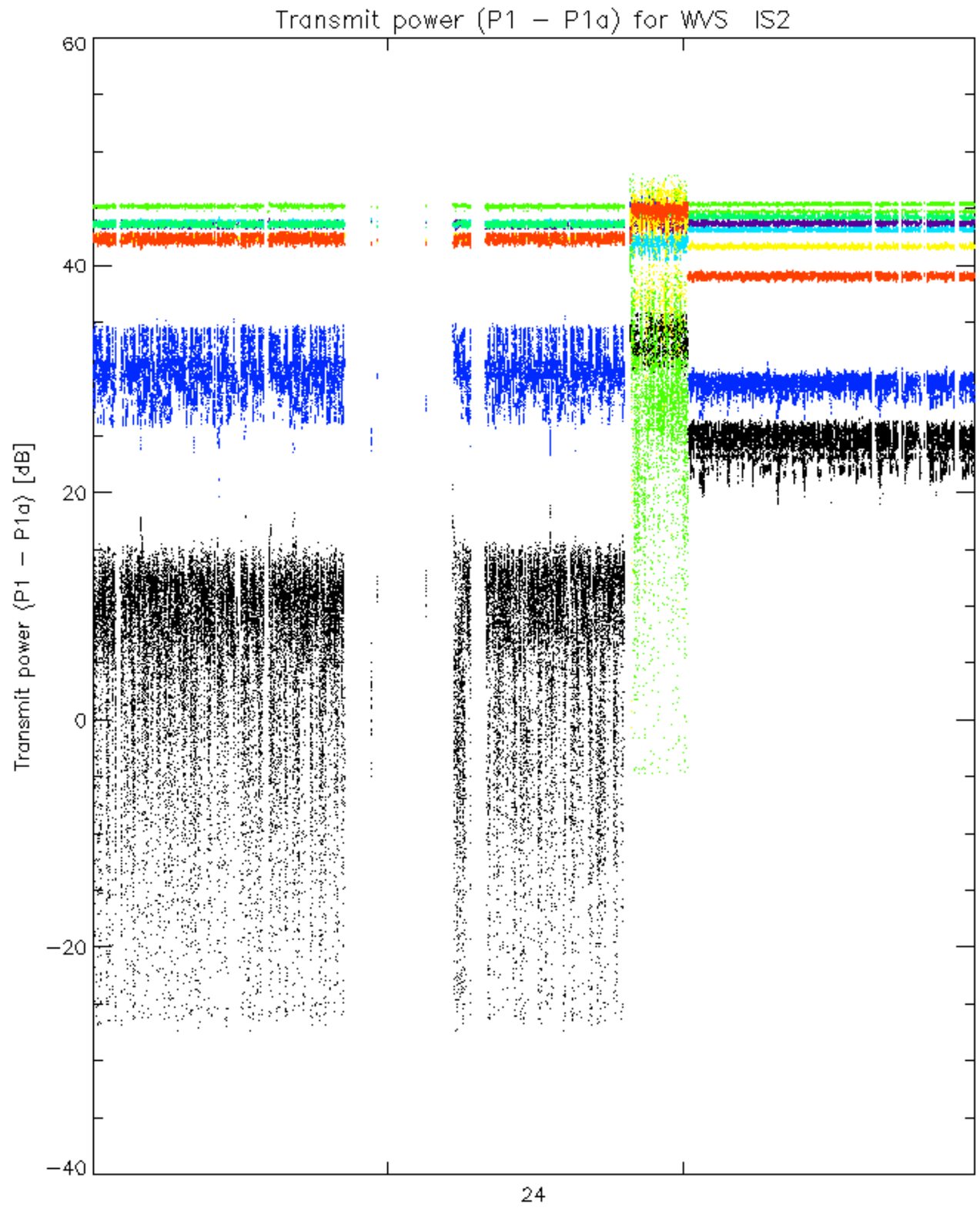

Reference: NULL H TxPhase
Test : 2005-09-24 08:44:49 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

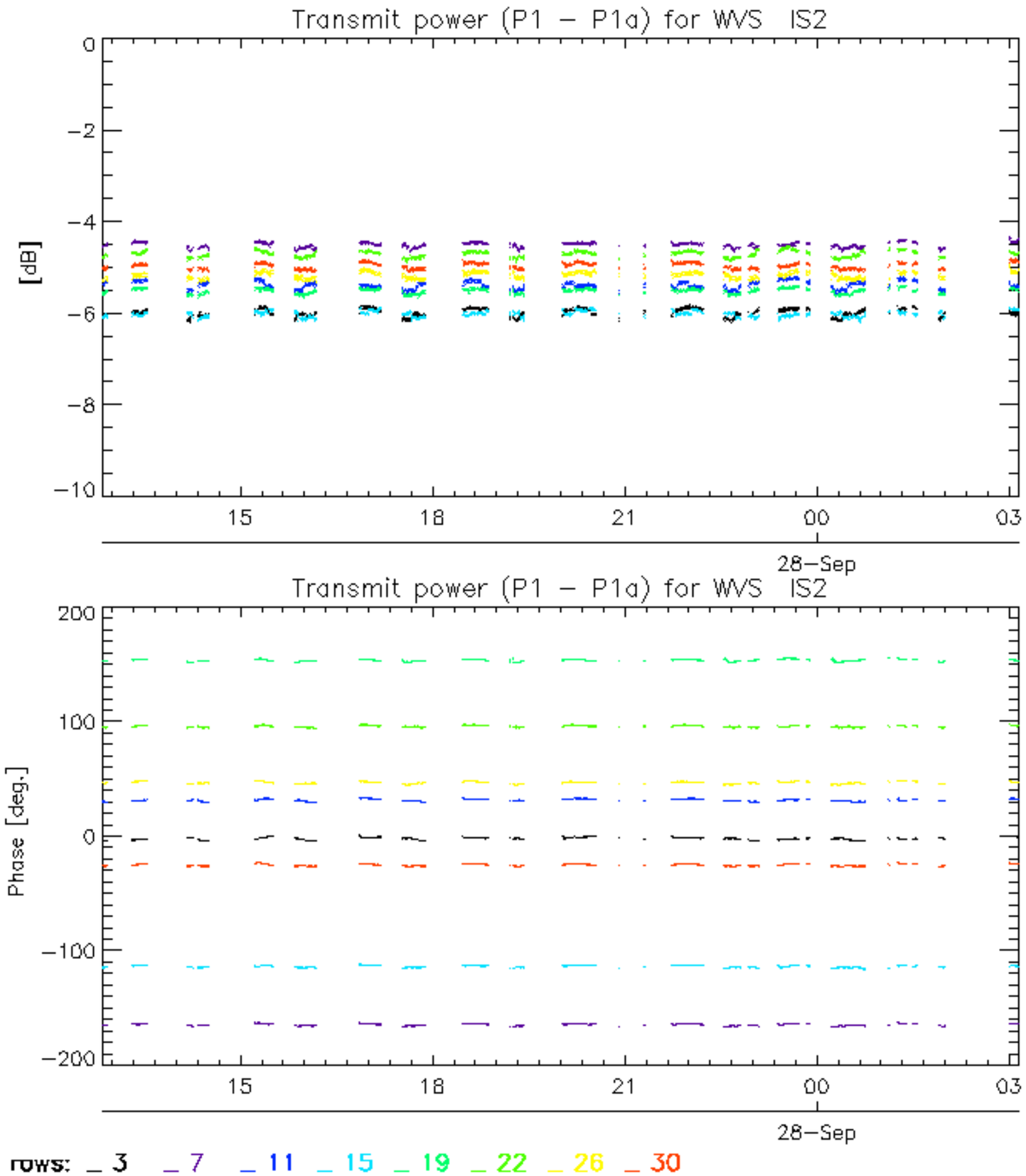

Reference: 2001-02-09 14:08:23 V
Test : 2005-09-27 08:50:34 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: NULL V TxPhase
Test : 2005-09-27 08:50:34 V
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
24
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
28−Sep
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
12
15
18
21
00
28−Sep
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
24
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
15
18
21
00
03
28–Sep
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
15
18
21
00
03
28–Sep
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.