PRELIMINARY REPORT OF 060620

last update on Tue Jun 20 16:46:13 GMT 2006

1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA_WVS_1P), global monitoring products (ASA_GM1_1P), which are the available few hours after the acquisition, on the browse (BP) products and
on the Module Stepping (MS) product.

2 - Summary

2.1 - Instrument Unavailability

No unavailabilities during the reported period.

2.2 - Auxiliary files

Summary of the auxiliary files used from 2006-06-19 00:00:00 to 2006-06-20 16:46:13

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

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	54	91	14	1	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	54	91	14	1	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	54	91	14	1	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	54	91	14	1	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	40	43	37	21	49
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	40	43	37	21	49
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	40	43	37	21	49
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	40	43	37	21	49

2.3 - Browse Visual Inspection

No anomalies observed on available browse products

2.4 - Data Analysis

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

3 - Module Stepping Mode

No anomalies observed on available MS products:

Polarisation	Start Time
V	20060618 053213
H	20060619 050036

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	-3.935501	0.018388	0.035385
7	P1	-3.135209	0.015705	-0.040229
11	P1	-4.107825	0.019416	0.008419
15	P1	-6.148764	0.020303	-0.045550
19	P1	-3.348471	0.008631	-0.064797
22	P1	-4.516940	0.011575	-0.022353
26	P1	-3.970774	0.017056	0.015528
30	P1	-5.751197	0.008934	-0.021312
3	P1	-16.510250	0.249409	0.055562
7	P1	-17.223921	0.149537	-0.132567
11	P1	-16.958208	0.309159	-0.090243
15	P1	-13.208629	0.216499	0.059729
19	P1	-14.331546	0.051510	-0.156239
22	P1	-16.168154	0.368586	0.029018
26	P1	-15.218514	0.229816	0.115100
30	P1	-17.125162	0.404186	-0.162069

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.143885	0.079851	0.121914
7	P2	-22.029232	0.095932	0.100620
11	P2	-15.872431	0.109500	0.119707
15	P2	-7.159547	0.092704	-0.003556
19	P2	-9.172943	0.084159	-0.016974
22	P2	-18.160940	0.081815	-0.070596
26	P2	-16.402033	0.085864	-0.071685
30	P2	-19.560461	0.085589	0.008835

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.185525	0.004026	-0.012877
7	P3	-8.185525	0.004026	-0.012877
11	P3	-8.185525	0.004026	-0.012877
15	P3	-8.185525	0.004026	-0.012877
19	P3	-8.185525	0.004026	-0.012877
22	P3	-8.185525	0.004026	-0.012877
26	P3	-8.185525	0.004026	-0.012877
30	P3	-8.185525	0.004026	-0.012877

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1
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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	-3.802365	0.051202	0.011428
7	P1	-2.590234	0.030586	0.048690
11	P1	-2.861282	0.023085	0.027236
15	P1	-3.511114	0.051004	-0.029044
19	P1	-3.408804	0.014346	-0.027163
22	P1	-5.081067	0.019552	0.002640
26	P1	-5.854166	0.015630	-0.037055
30	P1	-5.191666	0.026612	-0.023228
3	P1	-11.622822	0.053481	0.003925
7	P1	-9.968618	0.049008	-0.062342
11	P1	-10.216754	0.086893	-0.064318
15	P1	-10.656304	0.156210	-0.102879
19	P1	-15.536956	0.076348	-0.050142
22	P1	-20.933985	1.169516	-0.175493

26	P1	-16.474157	0.328215	0.044737
30	P1	-17.909462	0.369311	0.162786

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.831865	0.072268	0.166355
7	P2	-22.491564	0.129417	0.070098
11	P2	-11.152468	0.048389	0.086933
15	P2	-4.919391	0.048754	-0.029375
19	P2	-6.882842	0.053210	-0.009361
22	P2	-8.208750	0.042742	-0.018235
26	P2	-24.138979	0.068650	-0.085351
30	P2	-22.063089	0.056114	0.021624

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.019727	0.004916	-0.013456
7	P3	-8.019818	0.004893	-0.013426
11	P3	-8.019821	0.004889	-0.013268
15	P3	-8.019761	0.004895	-0.013432
19	P3	-8.019776	0.004897	-0.013198
22	P3	-8.019965	0.004893	-0.013677
26	P3	-8.019925	0.004893	-0.013336
30	P3	-8.019830	0.004892	-0.013494

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	0.000549619
	stdev	1.78269e-07
MEAN Q	mean	0.000521973
	stdev	2.22364e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136102
	stdev	0.00115732
STDEV Q	mean	0.136451
	stdev	0.00117459

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006061[890]
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_1PNPDE20060610_110007_000000342048_00266_22364_6947.N1	0	18
ASA_IMM_1PNPDE20060619_062814_000001452048_00392_22490_8058.N1	1	0
ASA_IMM_1PNPDK20060618_121934_000000622048_00381_22479_2870.N1	1	44
ASA_IMM_1PNPDK20060618_125918_000000372048_00382_22480_2868.N1	1	0
ASA_WSM_1PNPDE20060610_015903_000001462048_00261_22359_3573.N1	0	75

ASA_WSM_1PNPDE20060610_033801_000000852048_00262_22360_3591.N1	0	39
ASA_WSM_1PNPDE20060610_184505_000001842048_00271_22369_3667.N1	0	58
ASA_WSM_1PNPDE20060618_143248_000001282048_00383_22481_4580.N1	0	22
ASA_WSM_1PNPDE20060618_161434_000001832048_00384_22482_4579.N1	0	47
ASA_WSM_1PNPDE20060618_201434_000000852048_00386_22484_4597.N1	0	30
ASA_WSM_1PNPDE20060618_234032_000000852048_00388_22486_4614.N1	0	27
ASA_WSM_1PNPDK20060610_134308_000002082048_00268_22366_7314.N1	0	30

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

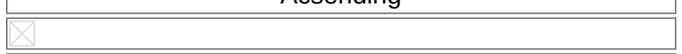
Evolution of Absolute Doppler
Acsending
Descending

7.3 - Doppler evolution versus ANX for WVS

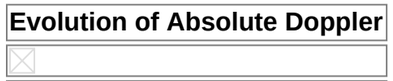
Evolution Doppler error versus ANX


7.4 - Unbiased Doppler Error for GM1

Evolution of unbiased Doppler error (Real - Expected)

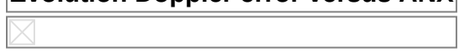
Acsending

Descending

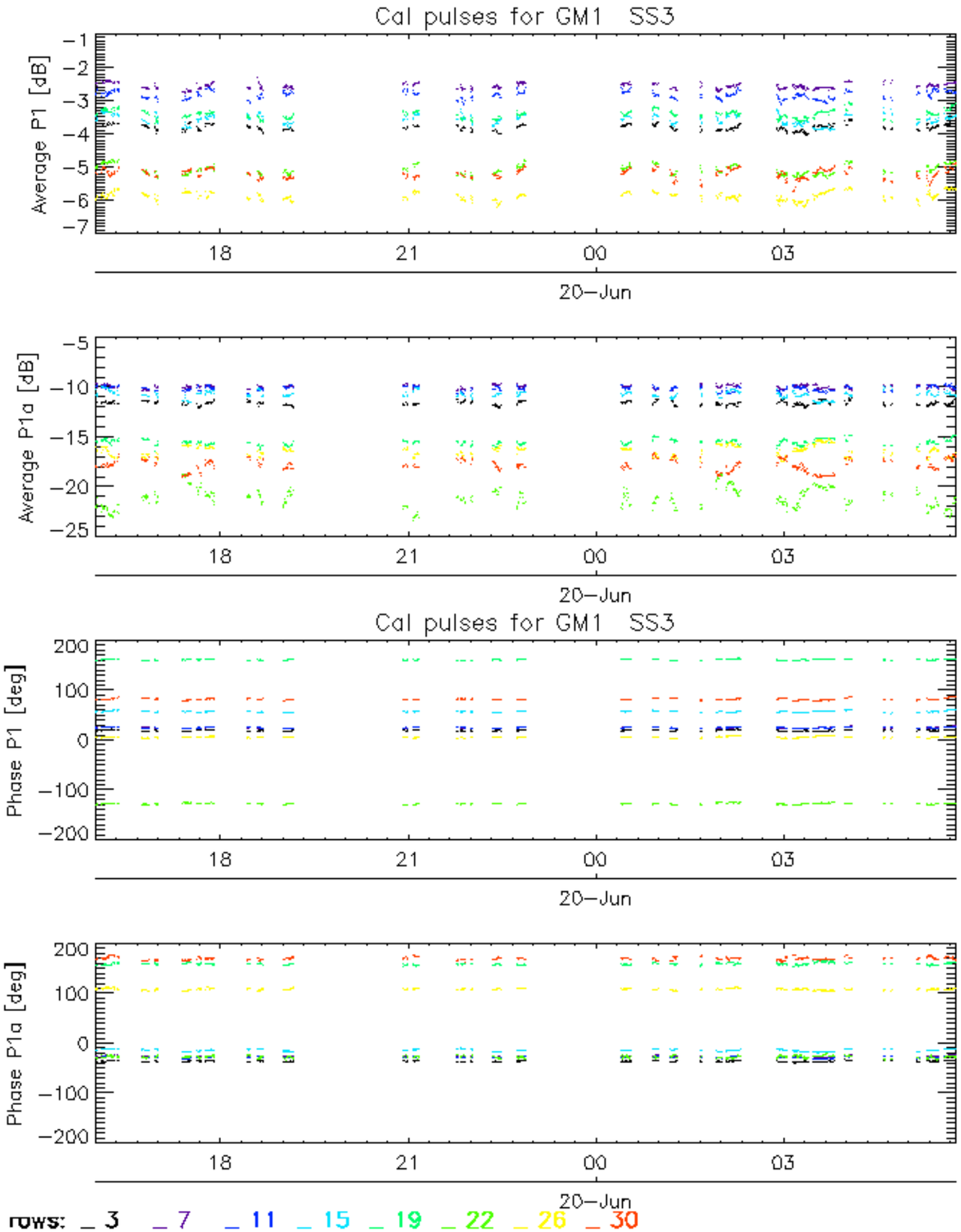
7.5 - Absolute Doppler for GM1

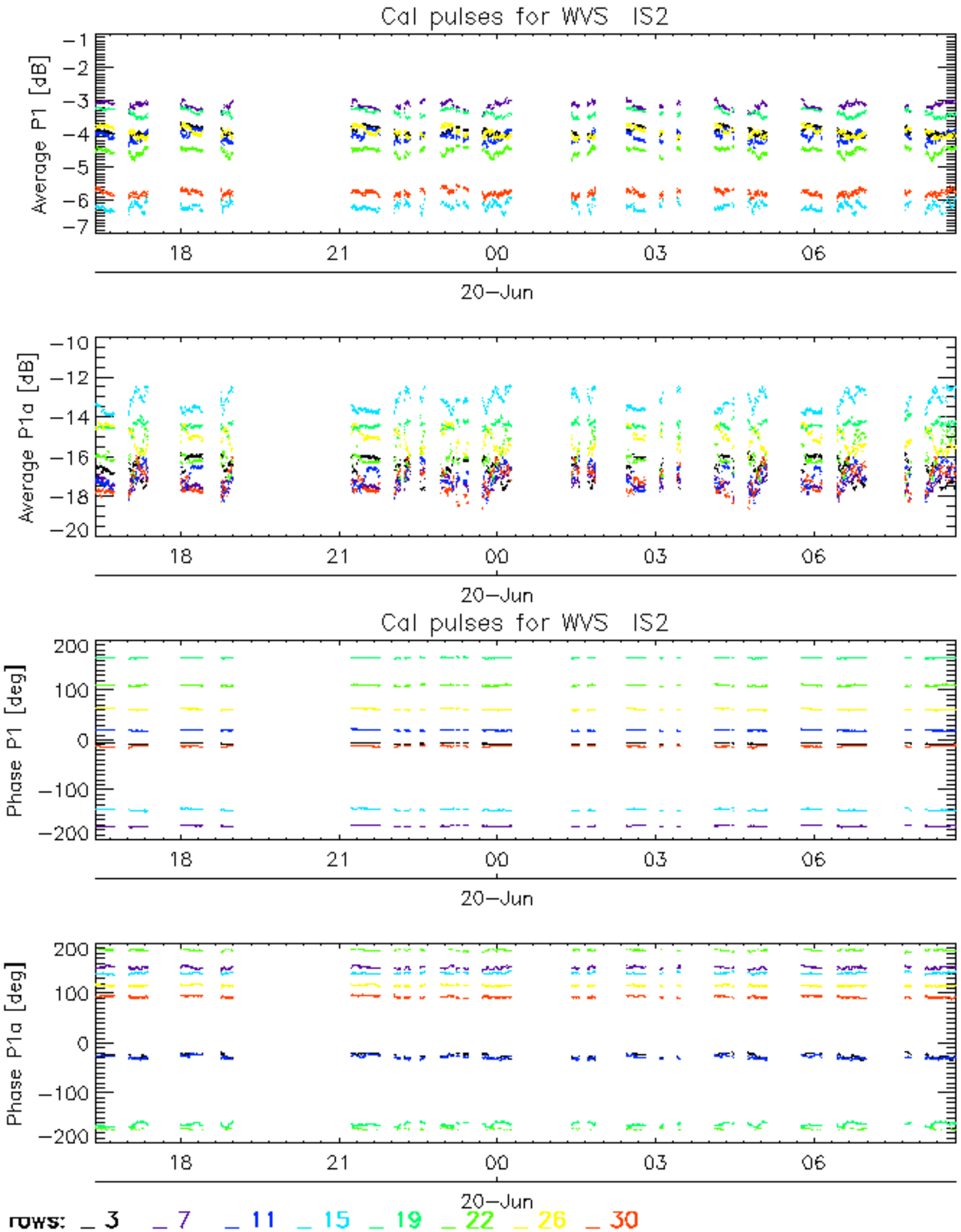
Evolution of Absolute Doppler

Acsending

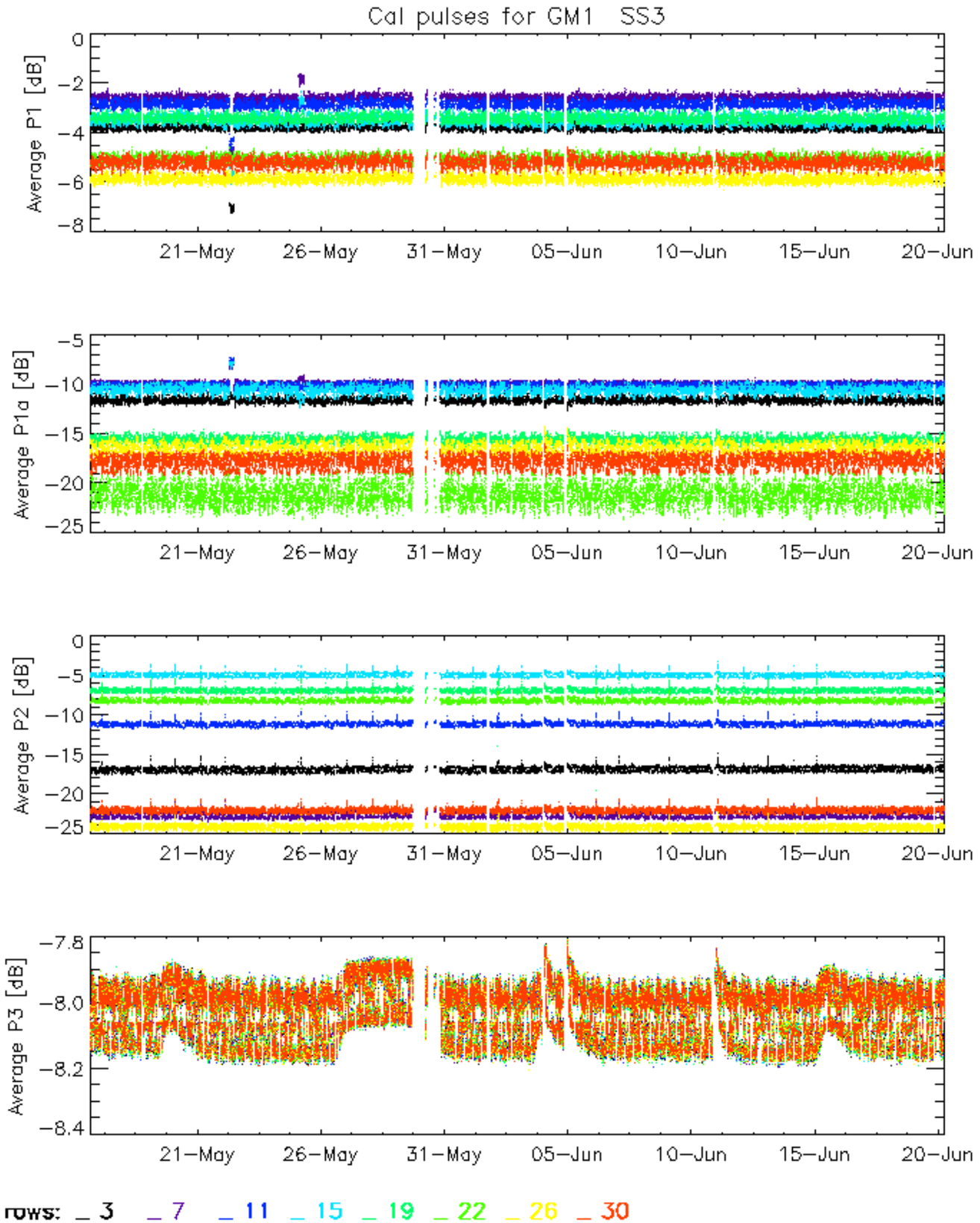
Descending

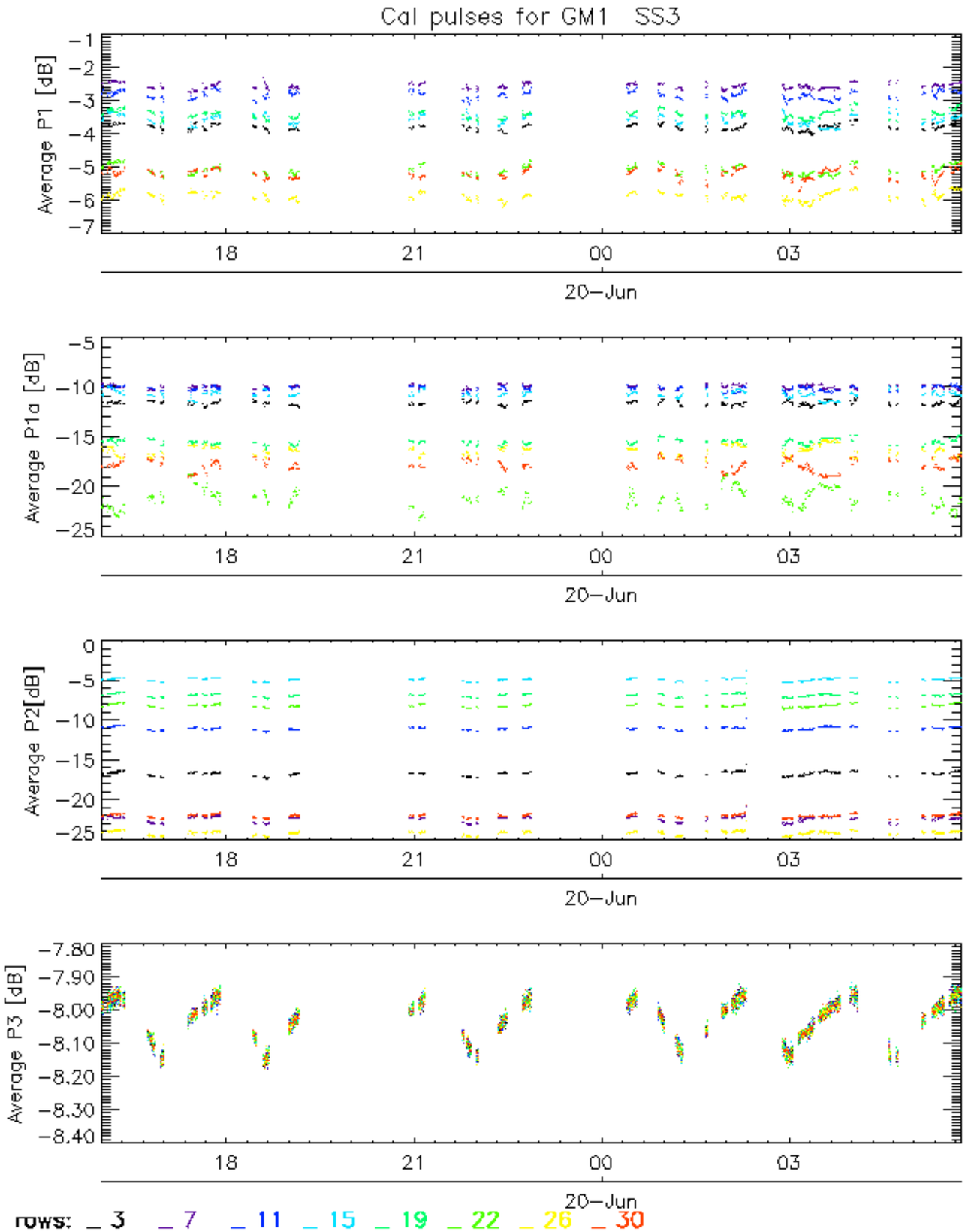
7.6 - Doppler evolution versus ANX for GM1

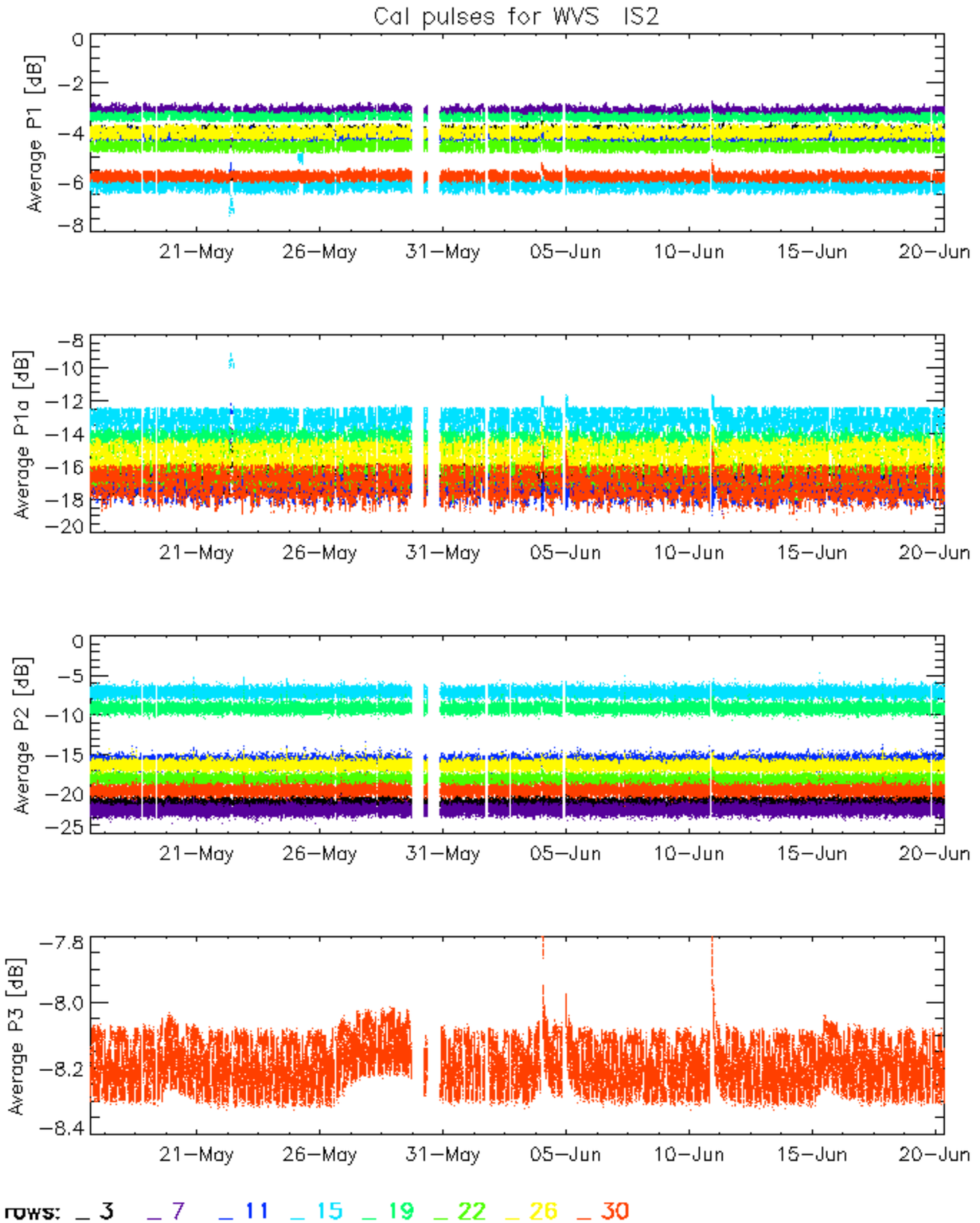
Evolution Doppler error versus ANX


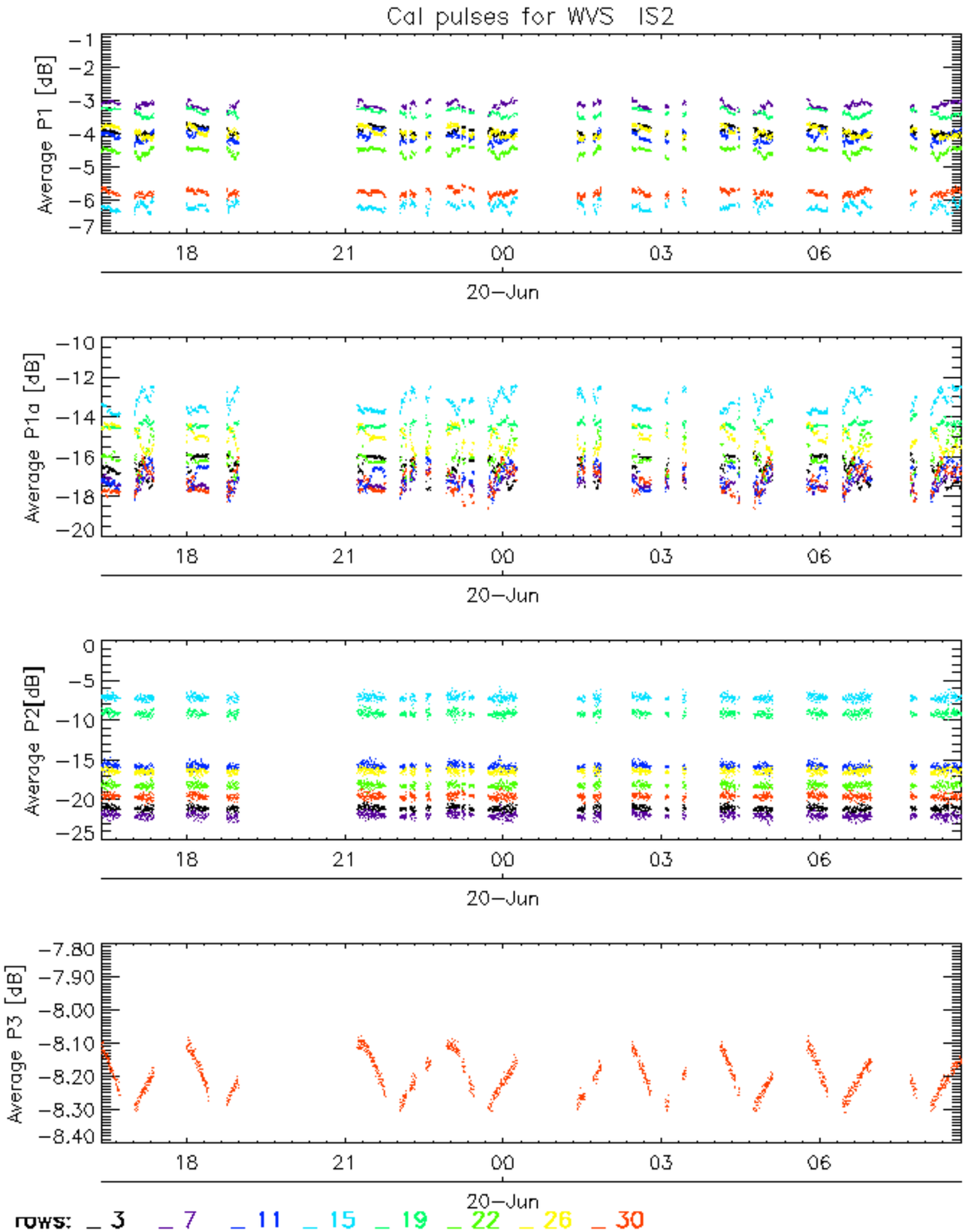

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
20−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
20−Jun
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
20−Jun
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
20−Jun
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
20−Jun
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
20−Jun
Cal pulses for WVS IS2
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
20−Jun
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
20−Jun
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−May
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

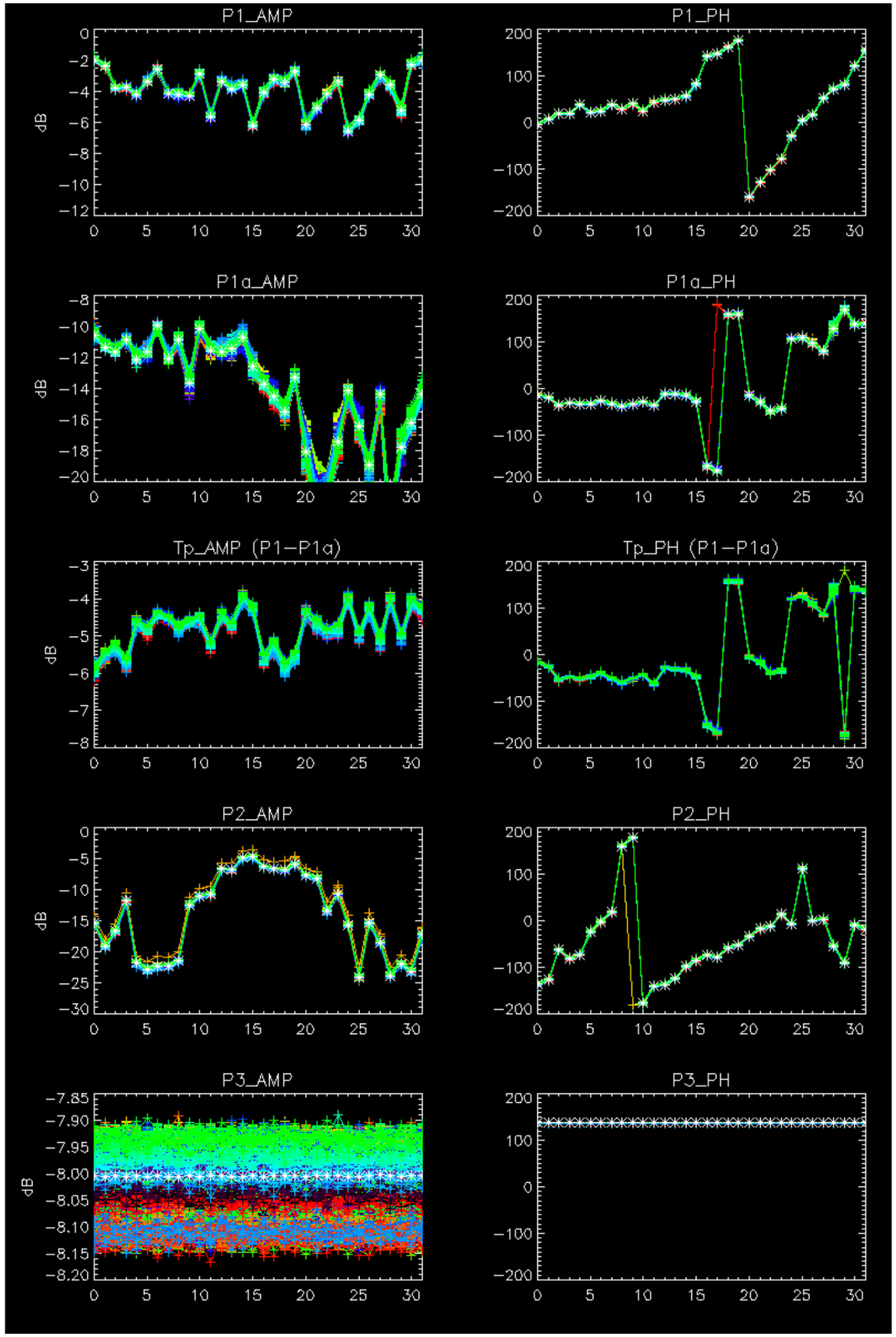

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
20−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
20−Jun
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
20−Jun
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
20−Jun
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _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

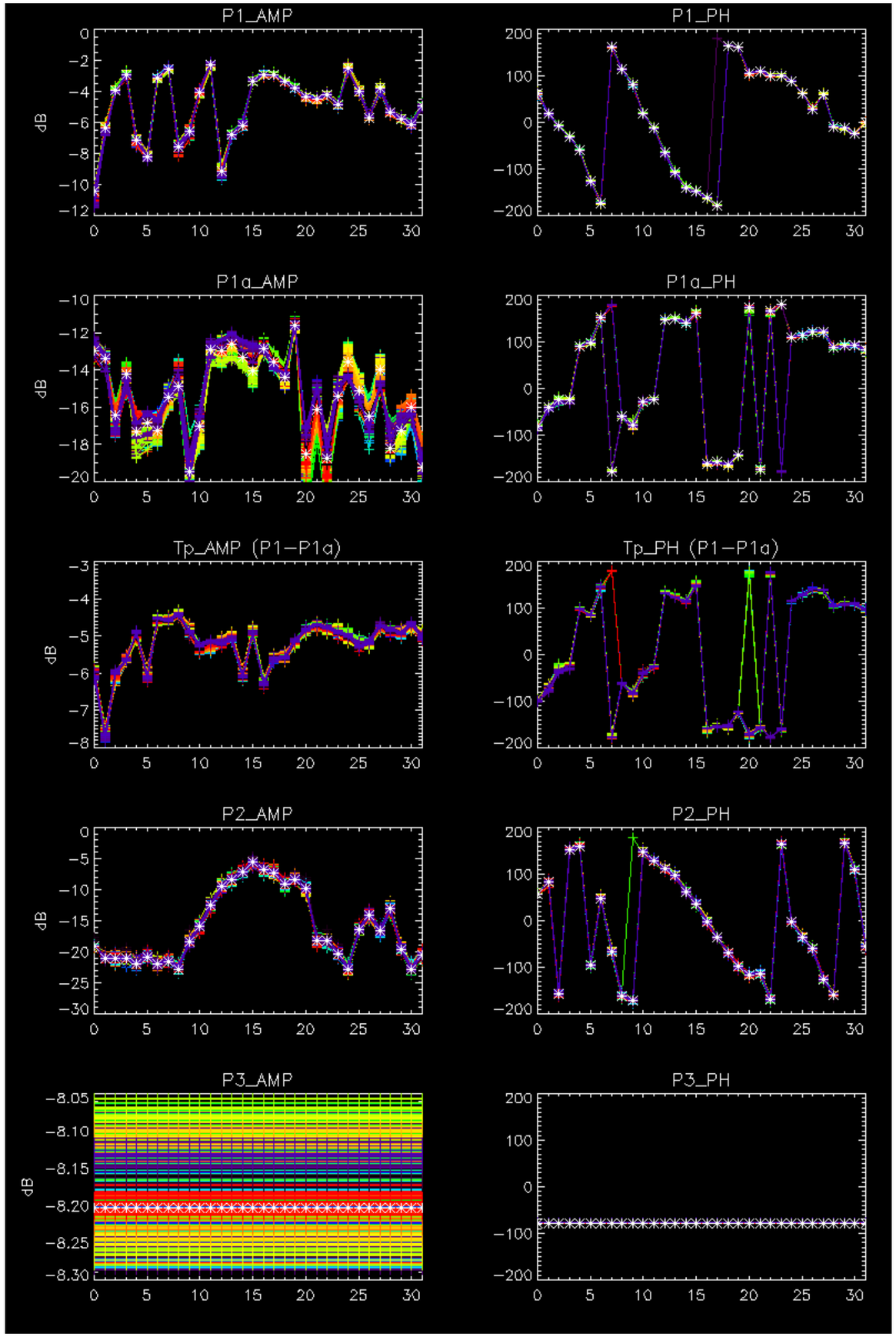

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
Average P1a [dB]
−8
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun
rows: 3 7 11 15 19 22 26 30


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

No anomalies observed on available browse products

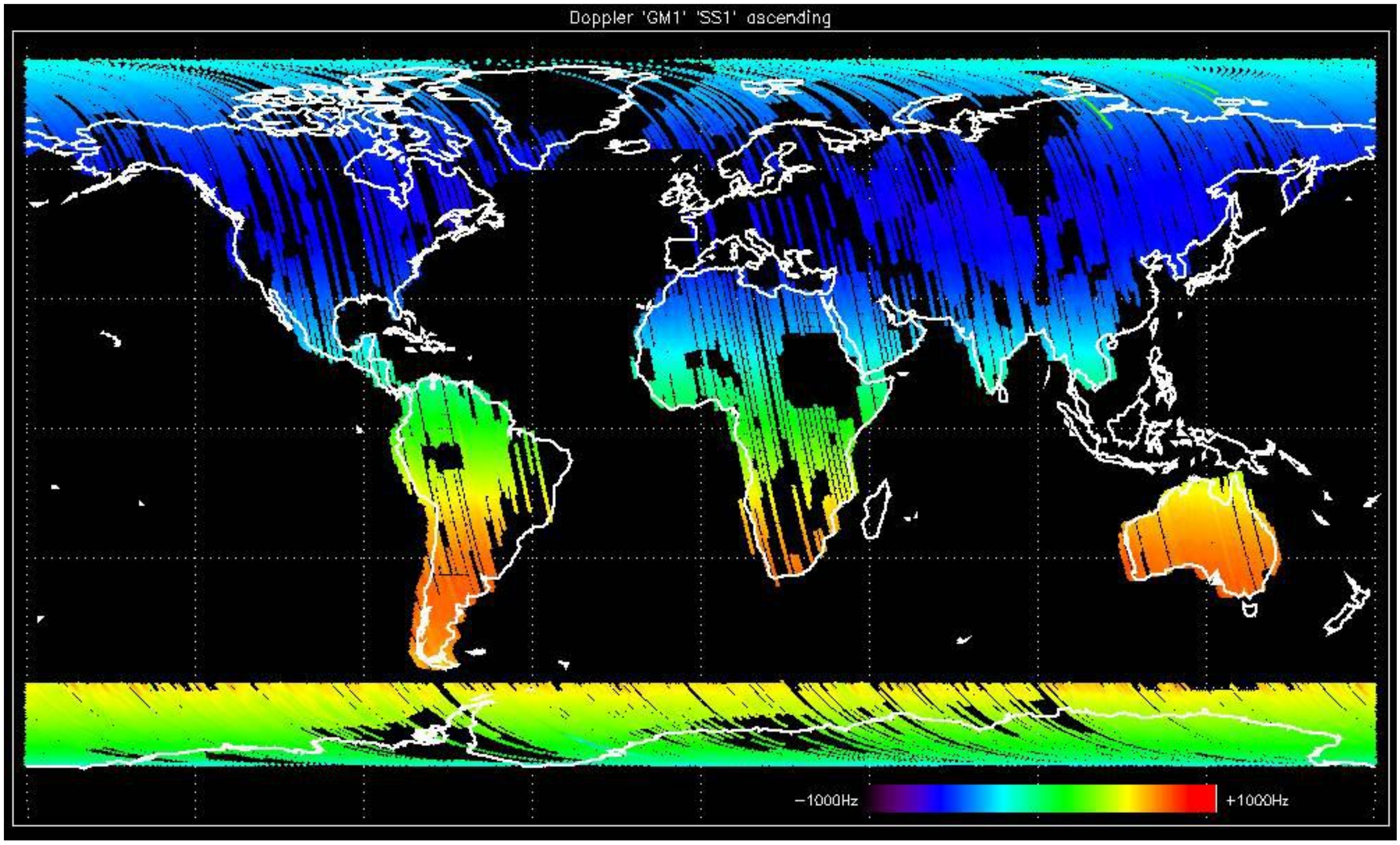
No anomalies observed.

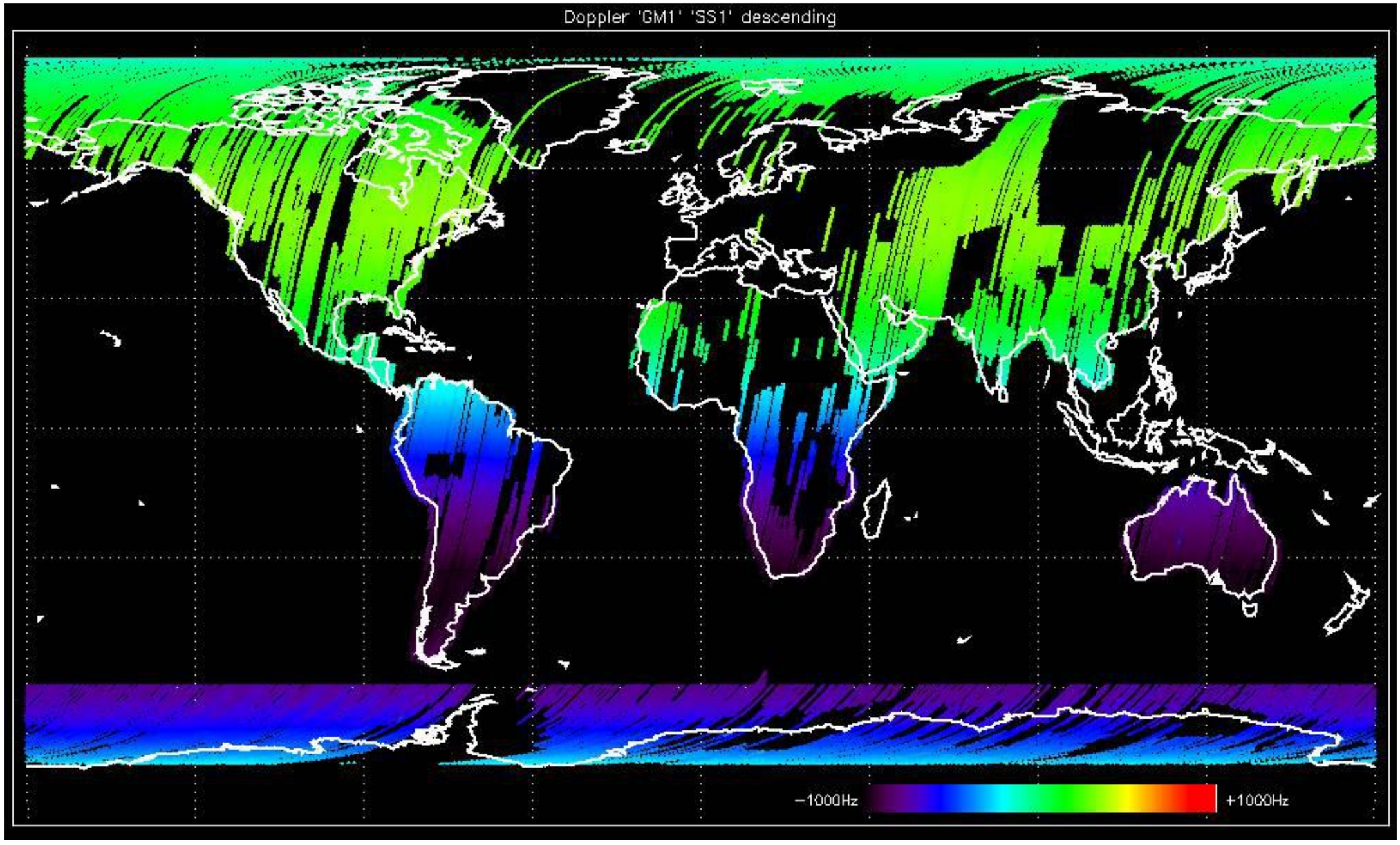

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

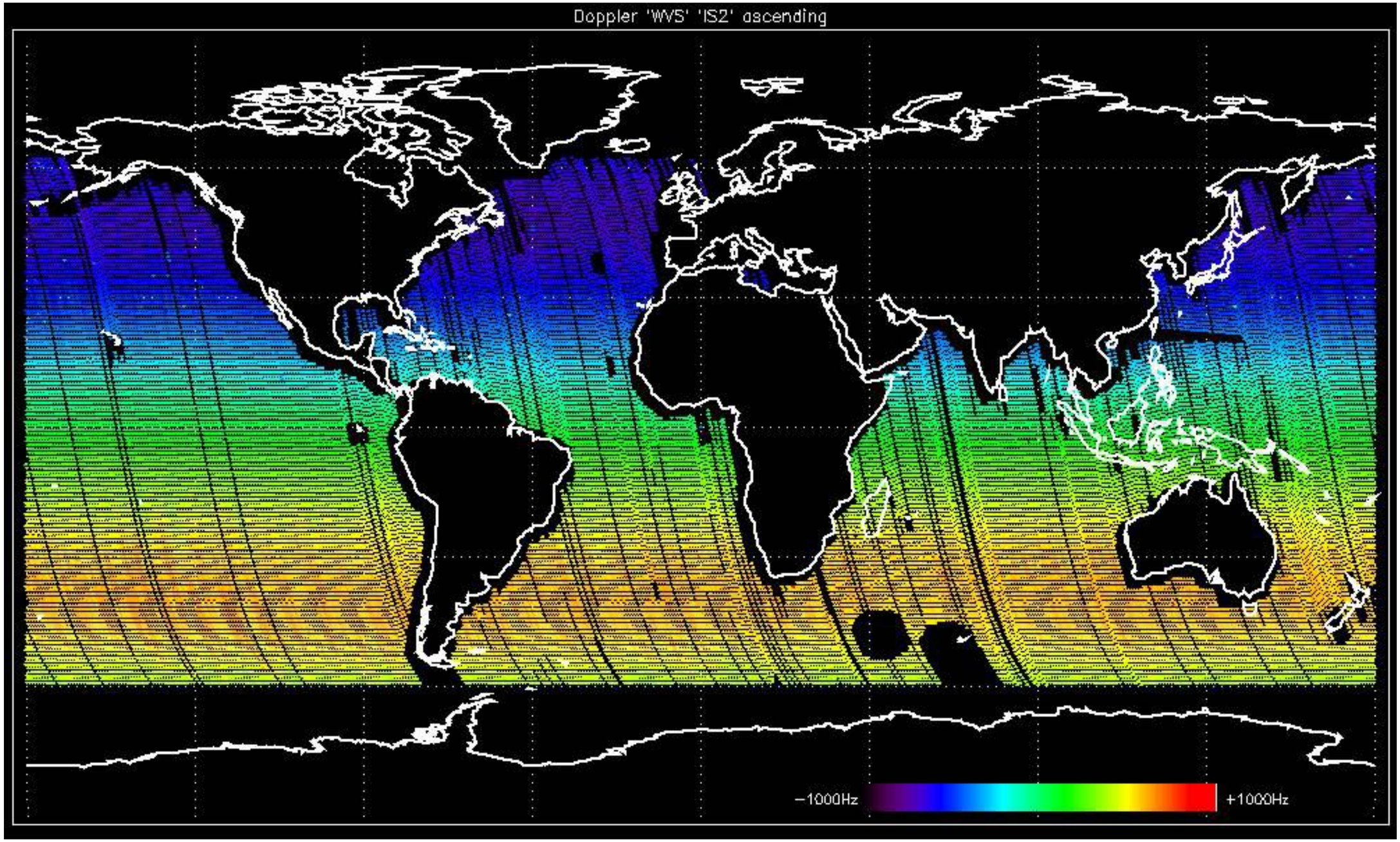

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

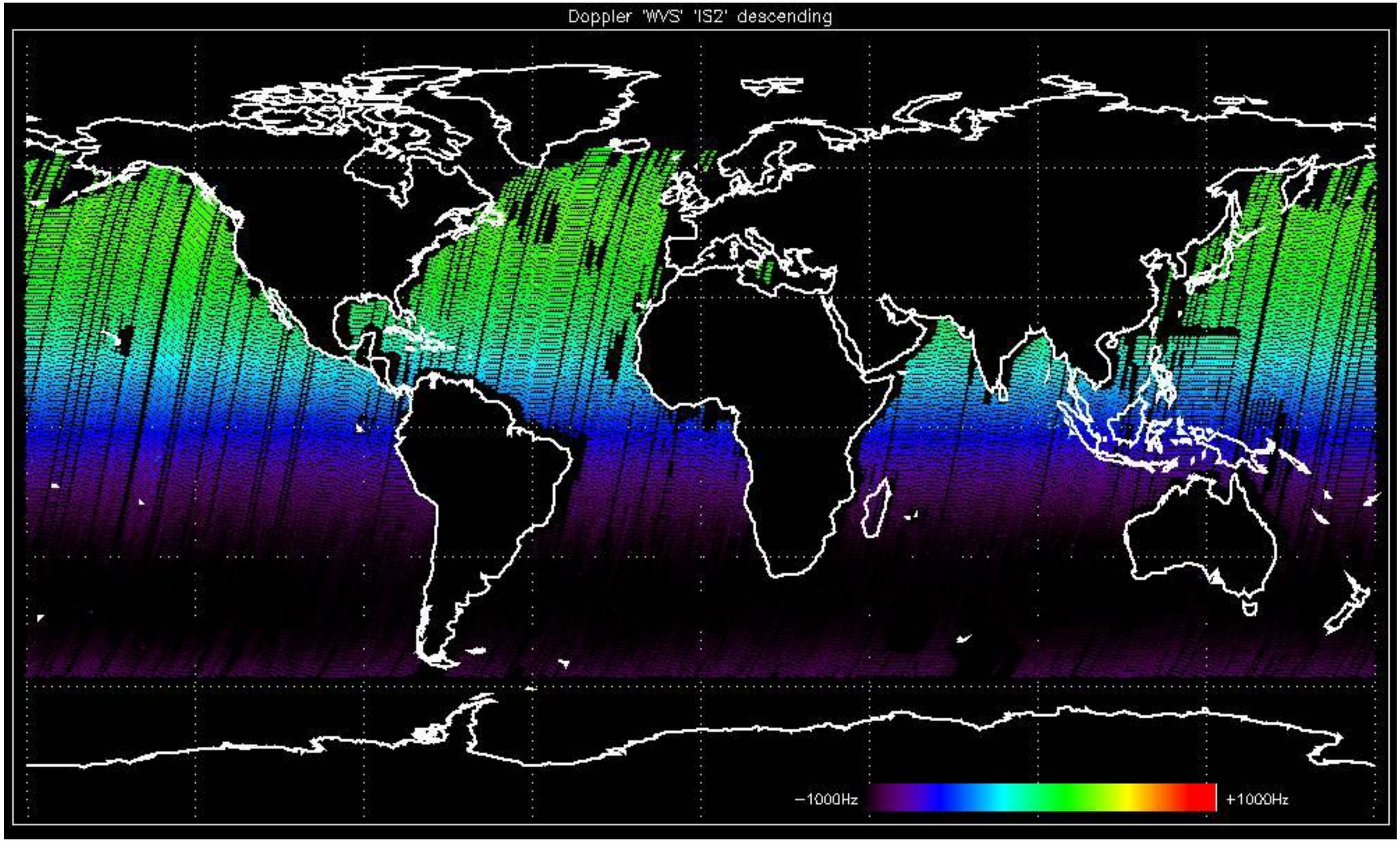
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

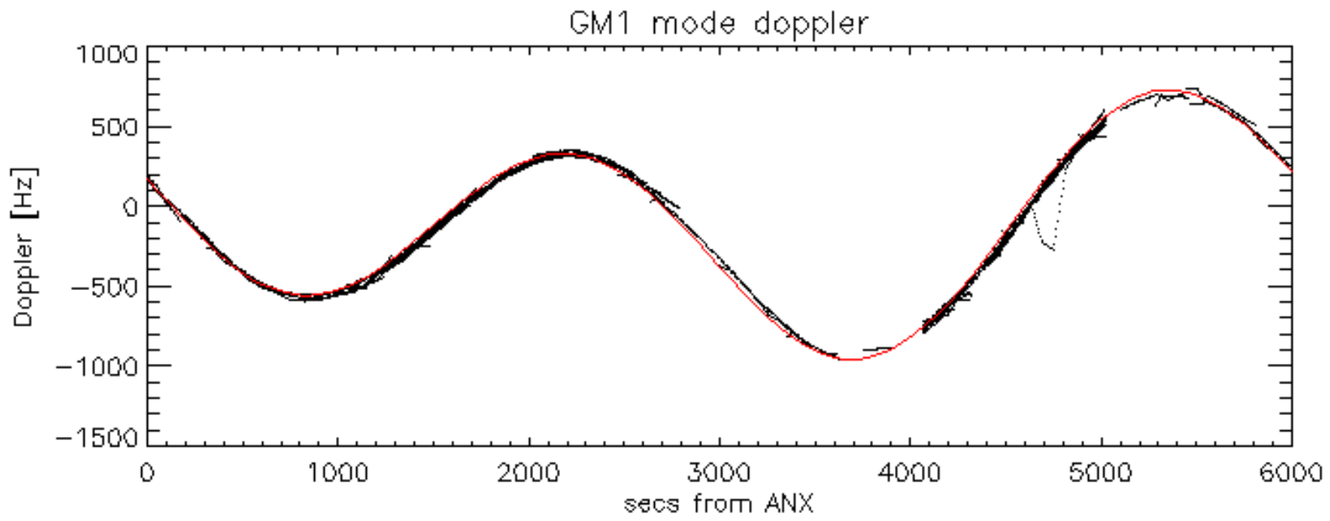
Preliminary report.The data is not yet controled

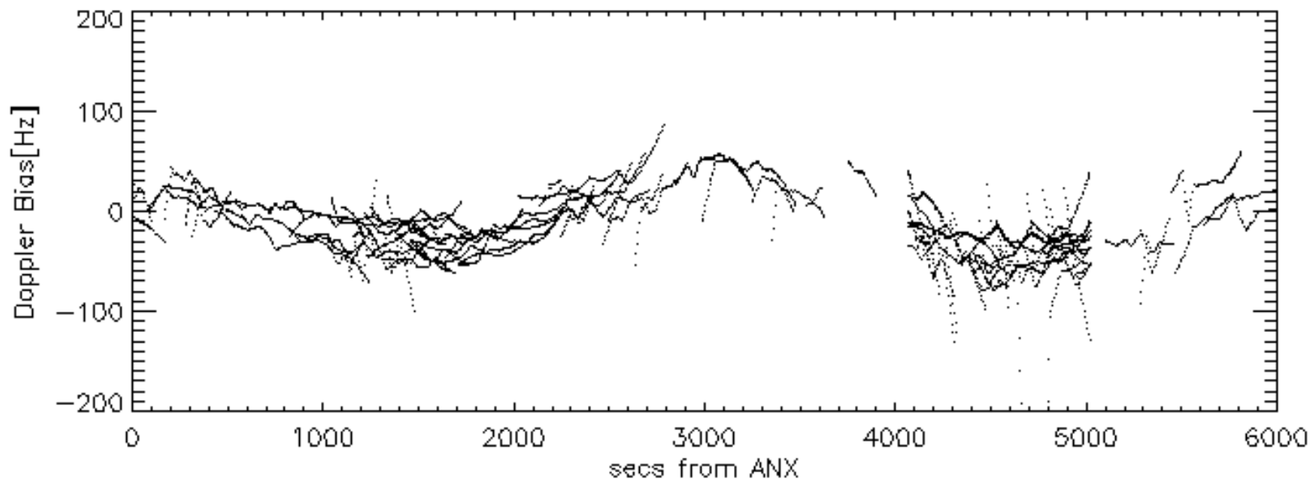

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

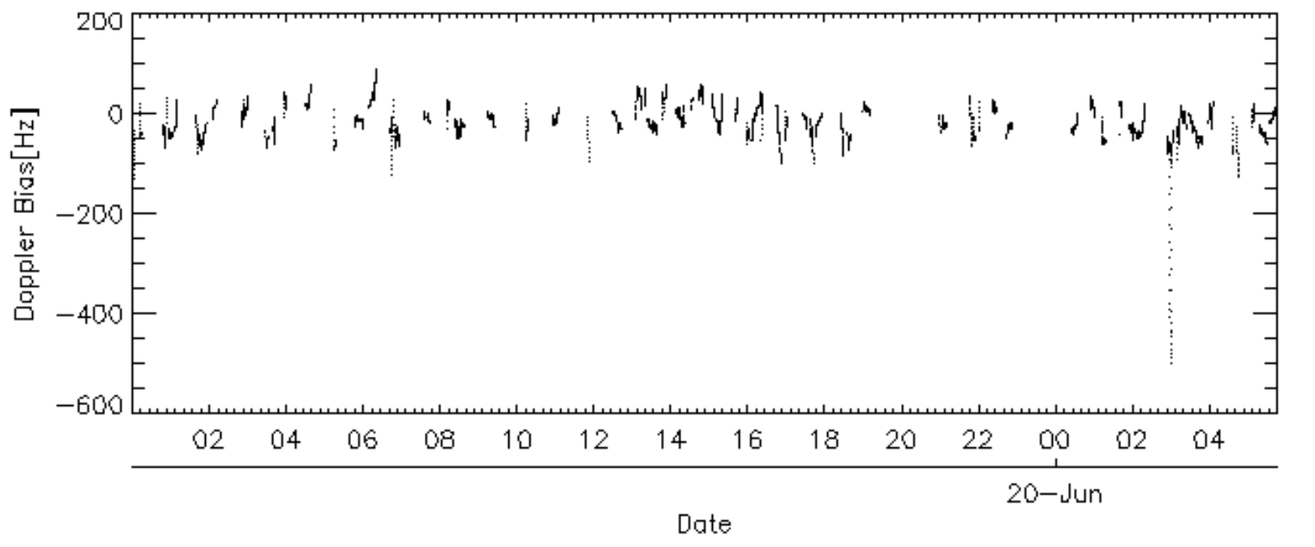

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

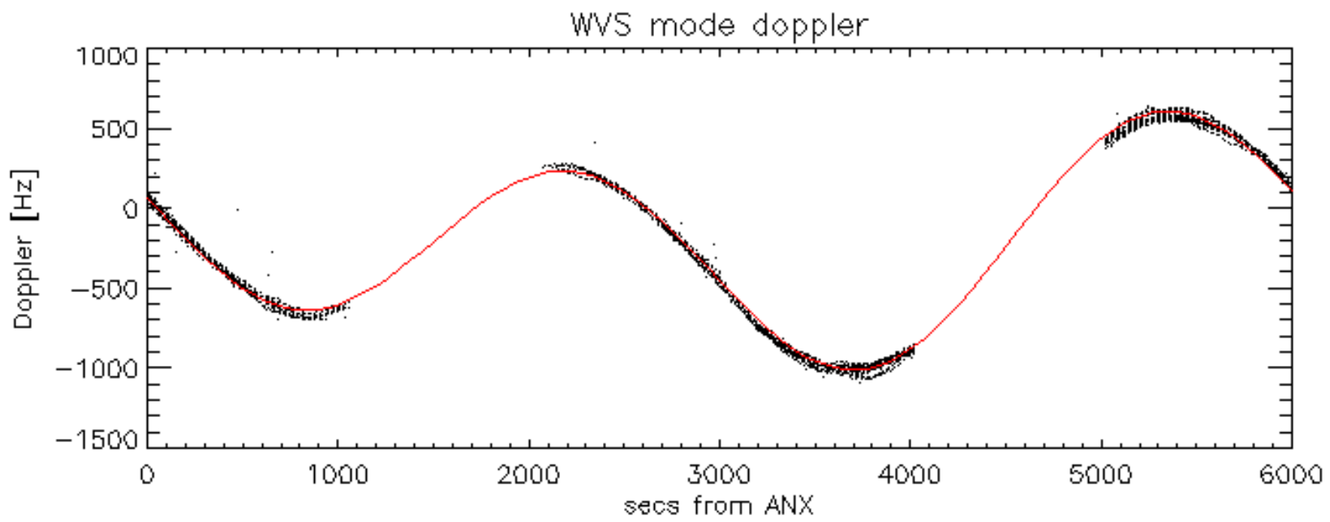

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

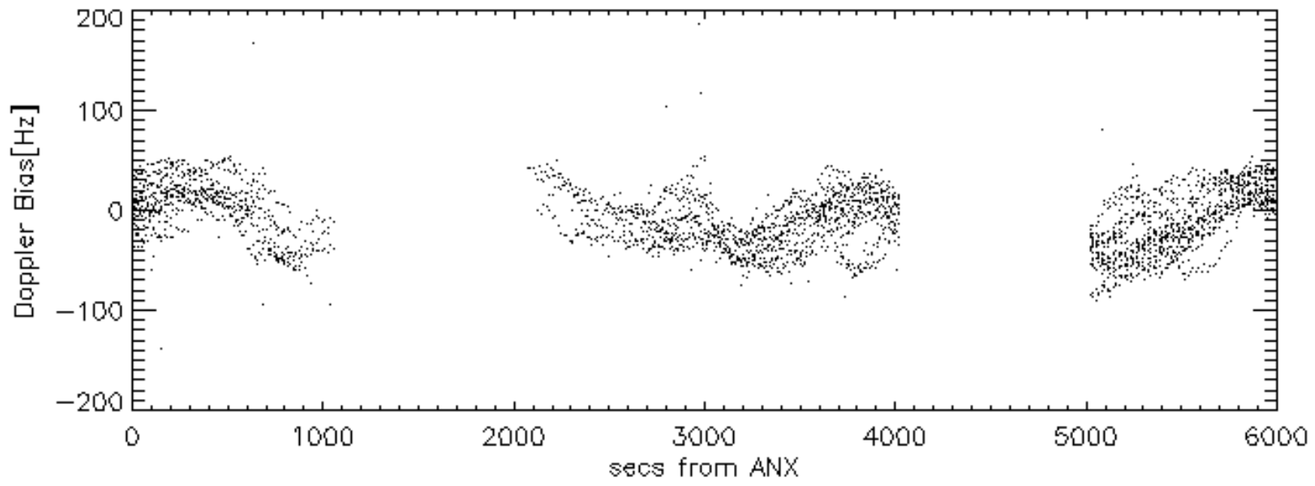

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

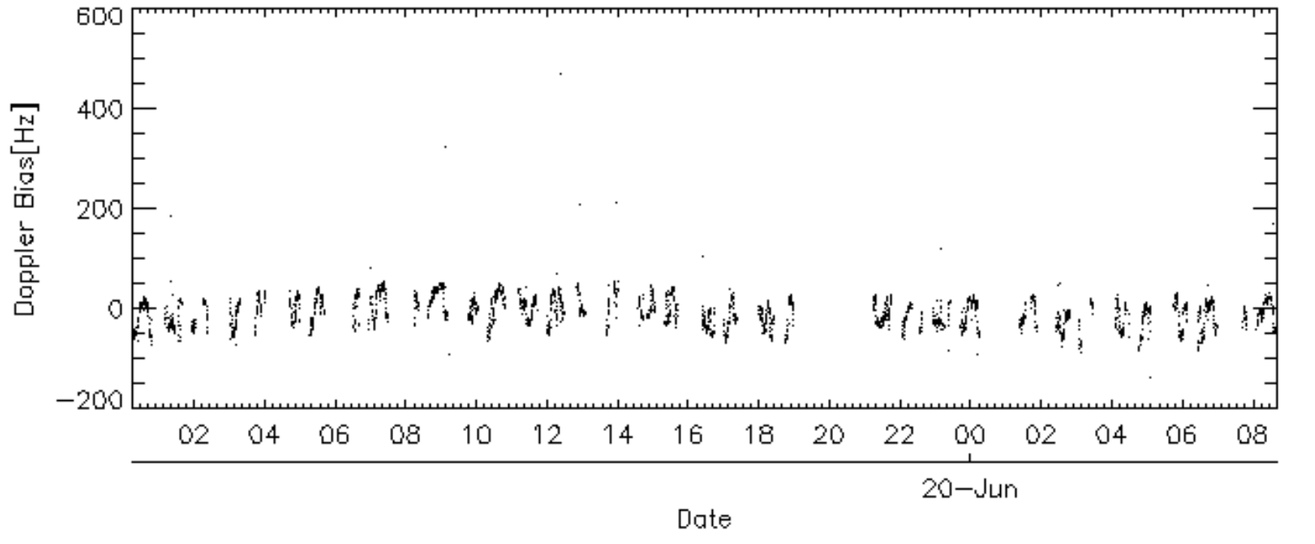

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

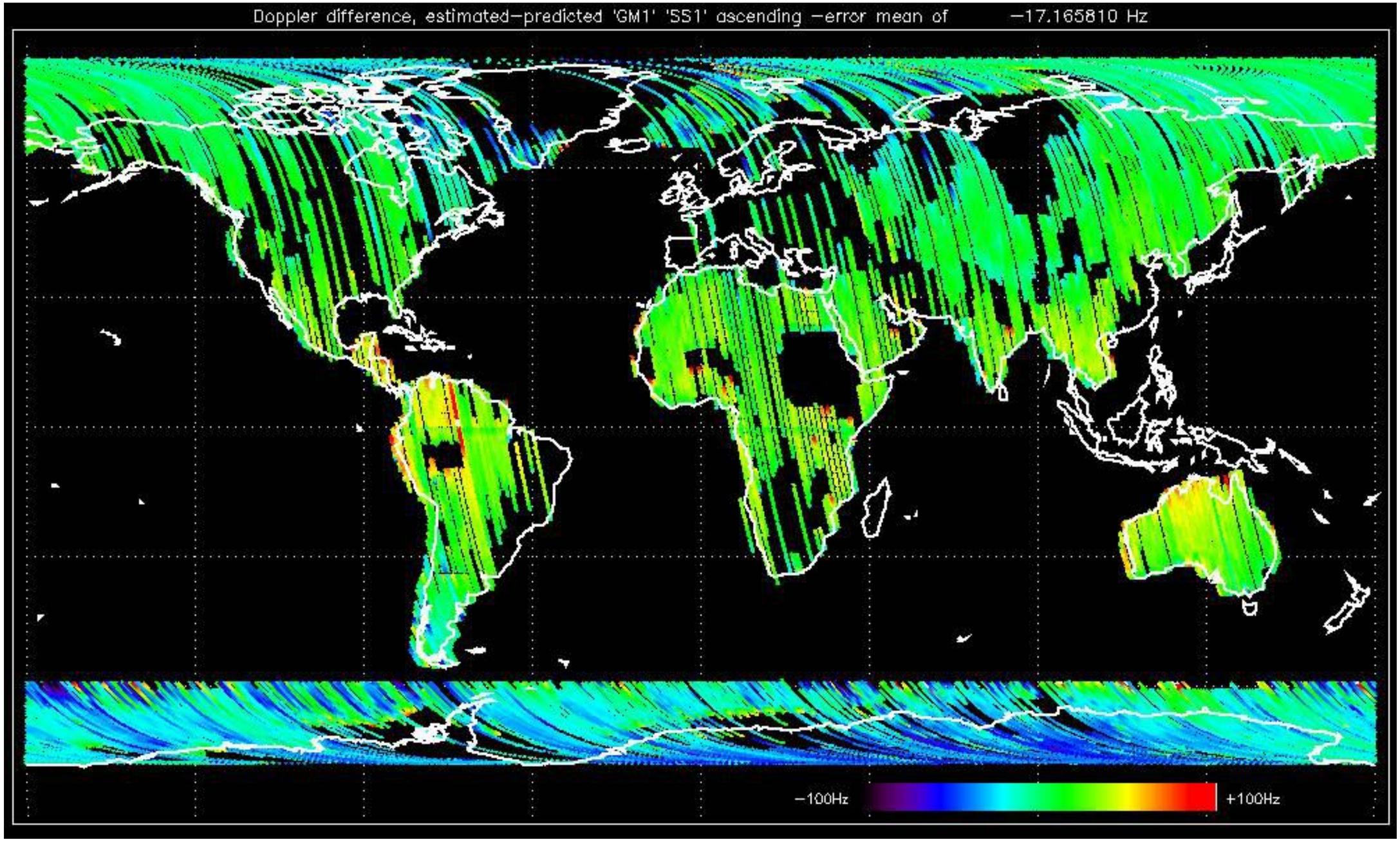

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

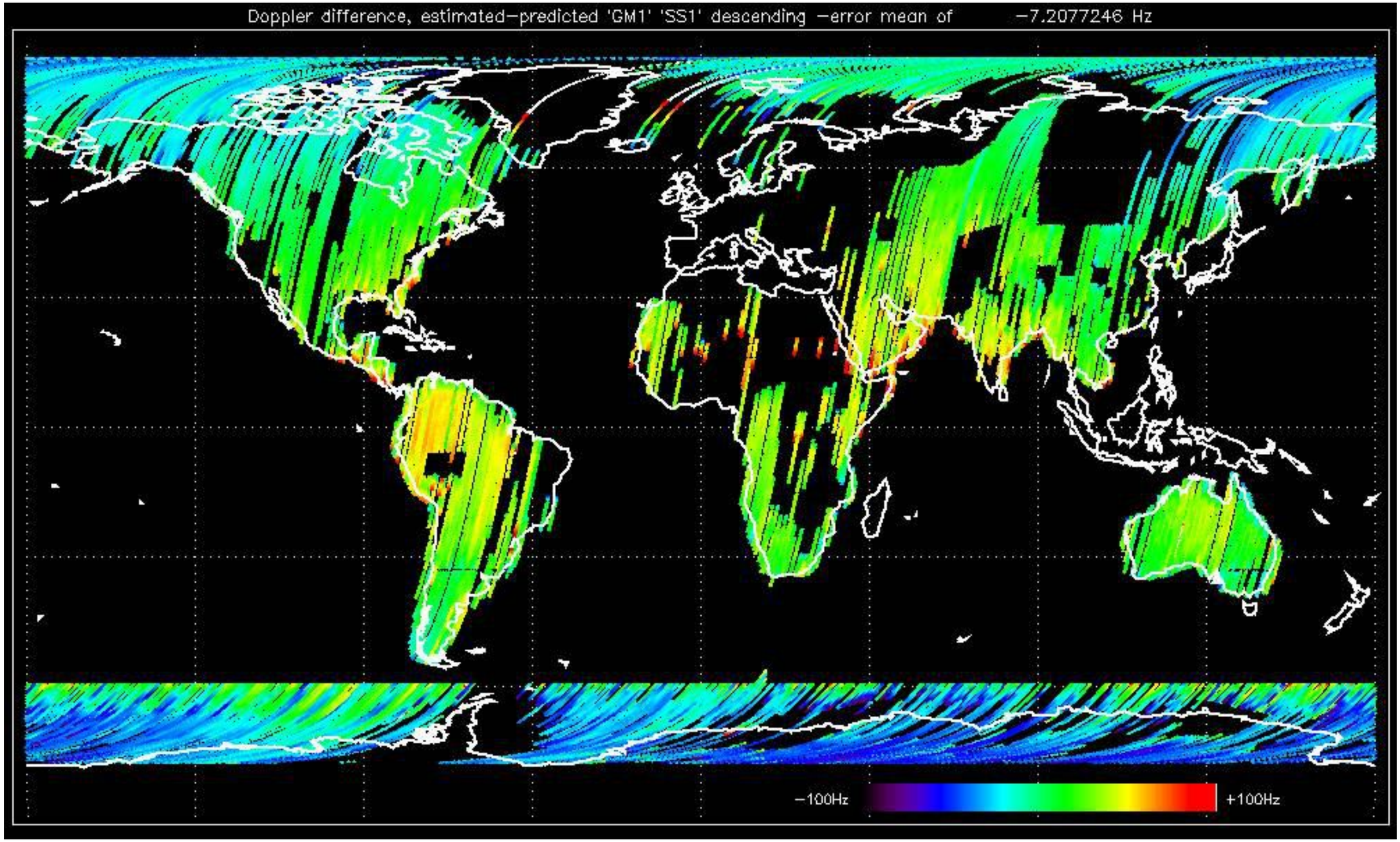

Doppler Bias[Hz]
200
0
−200
−400
−600
02
04
06
08
10
12
14
16
18
20
22
00
02
04
20−Jun
Date

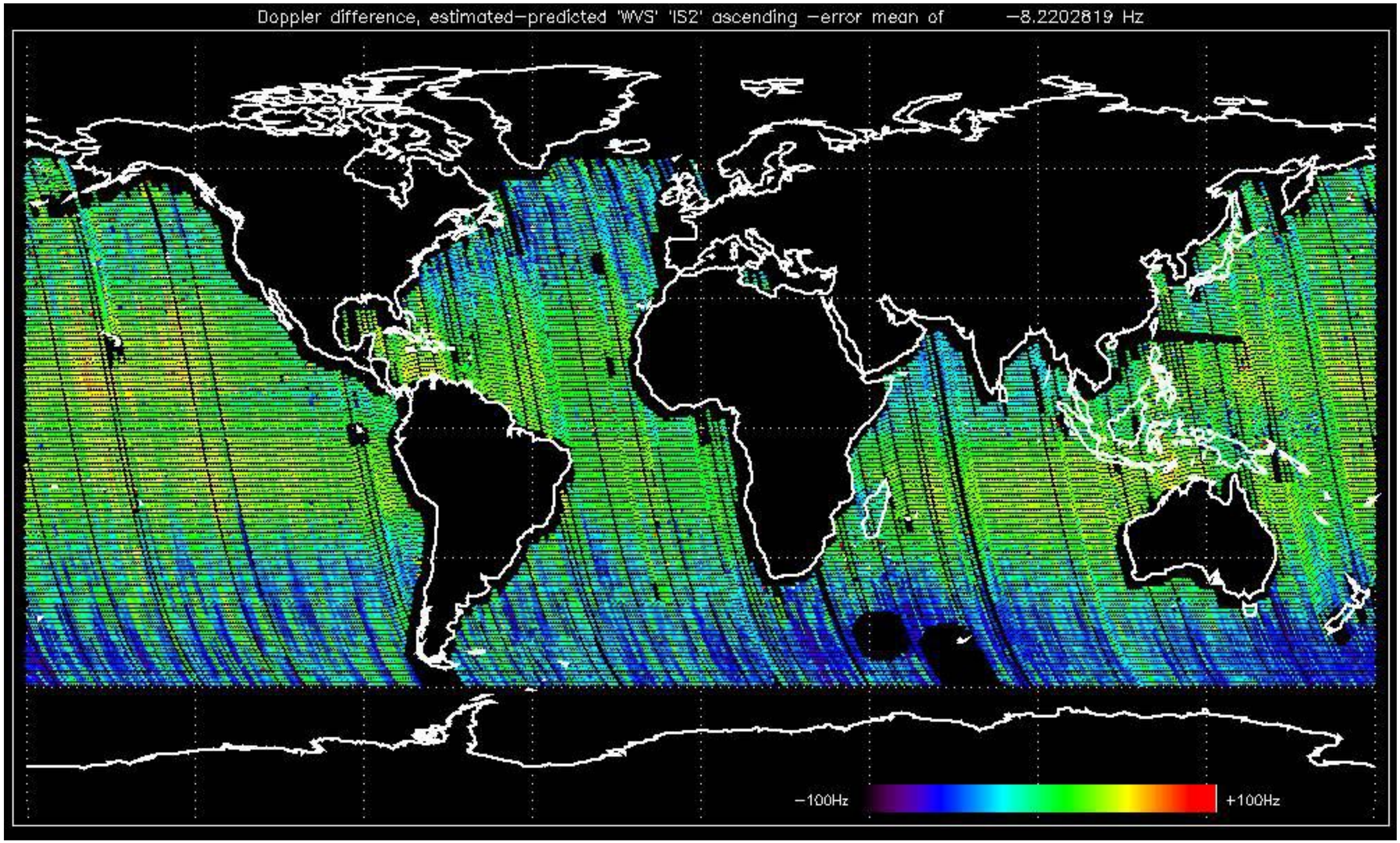

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

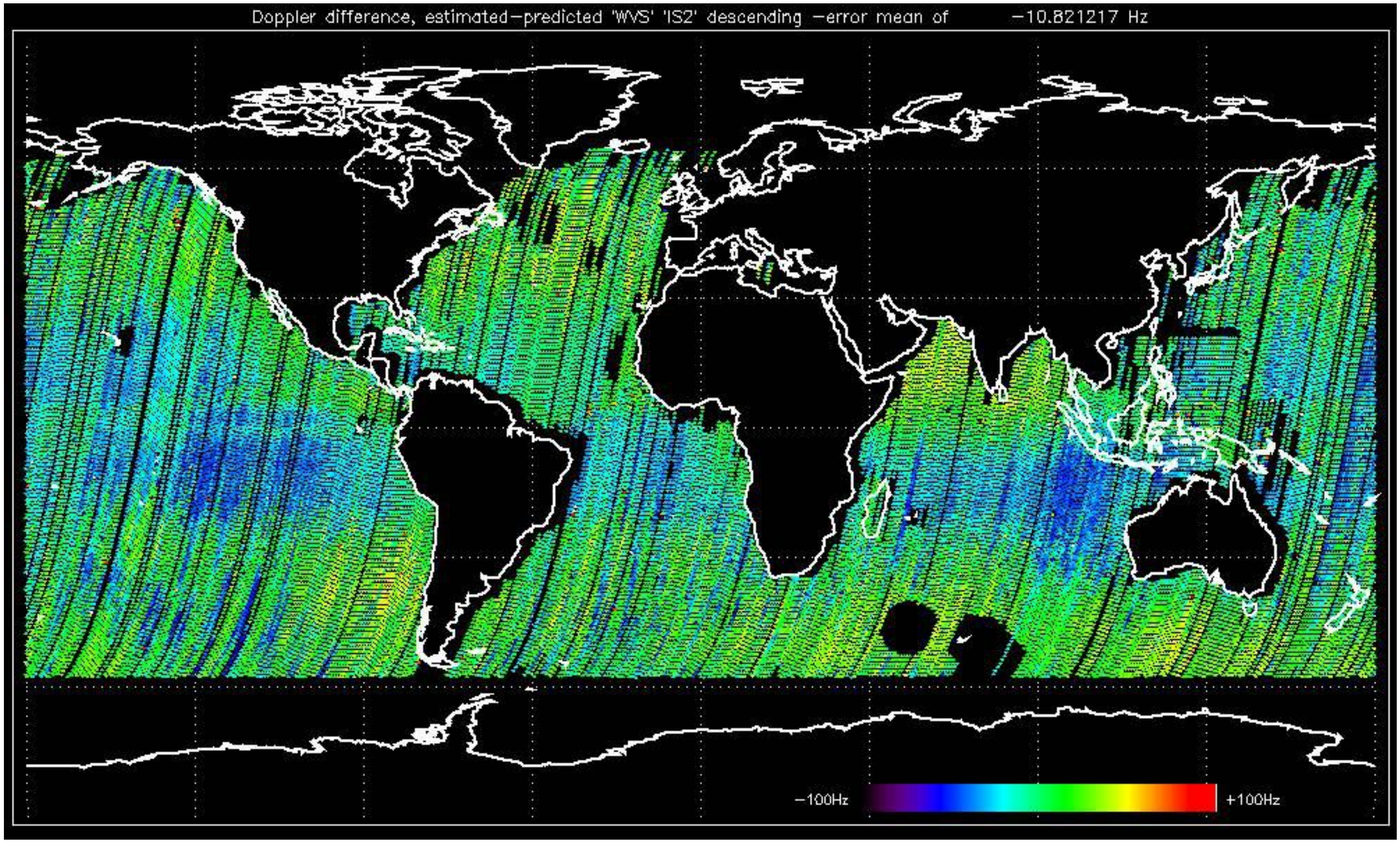

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −17.165810 Hz
−100Hz
+100Hz

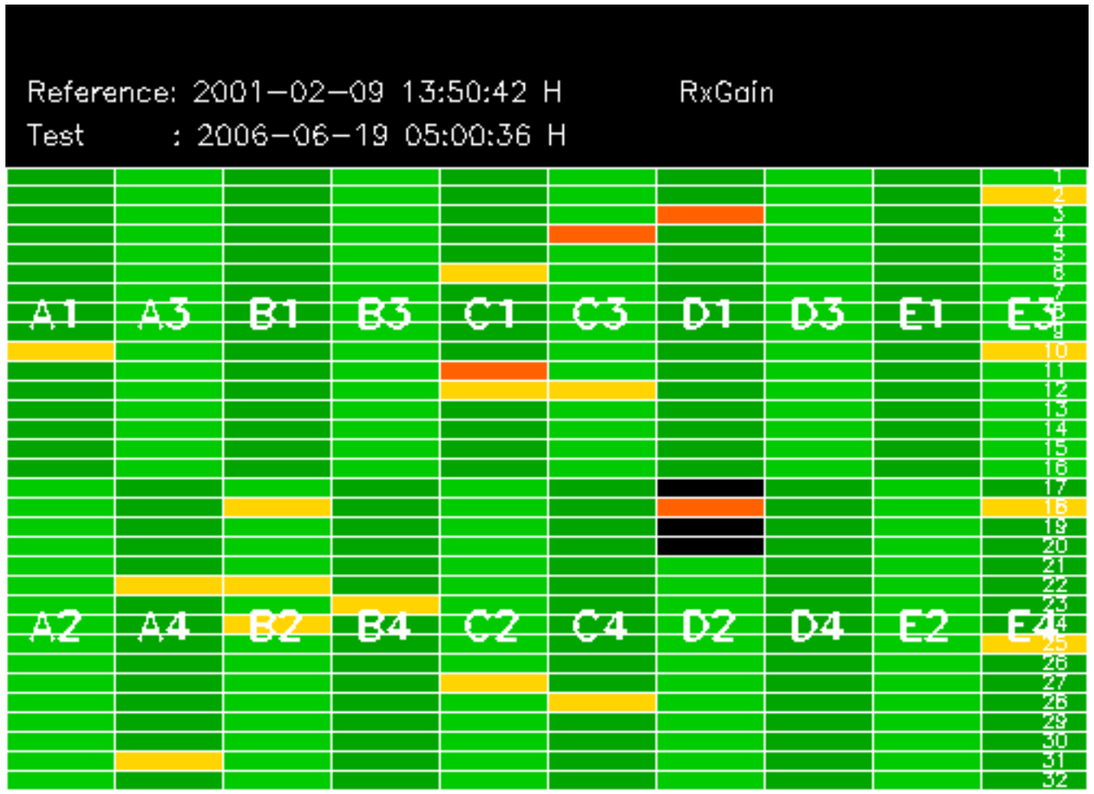

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −7.2077246 Hz
−100Hz
+100Hz

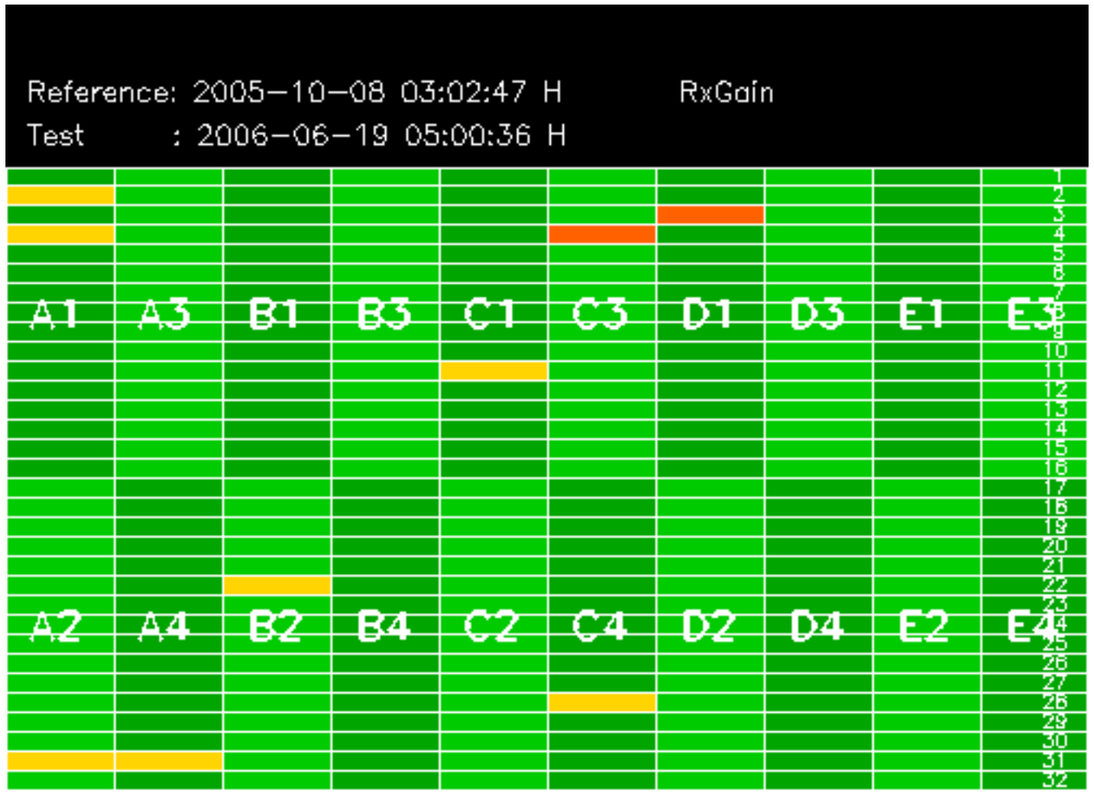

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −8.2202819 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.821217 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2006-06-19 05:00:36 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2006-06-19 05:00:36 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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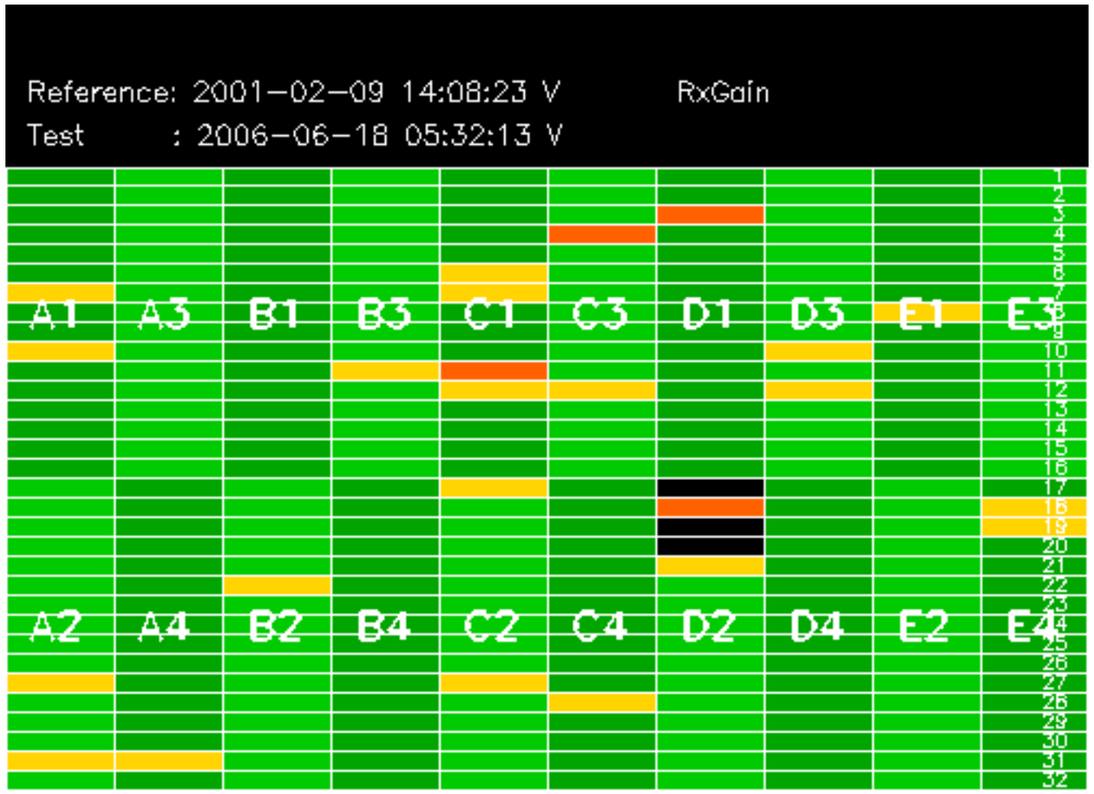
Reference: 2001-02-09 14:08:23 V
RxGain
Test : 2006-06-18 05:32:13 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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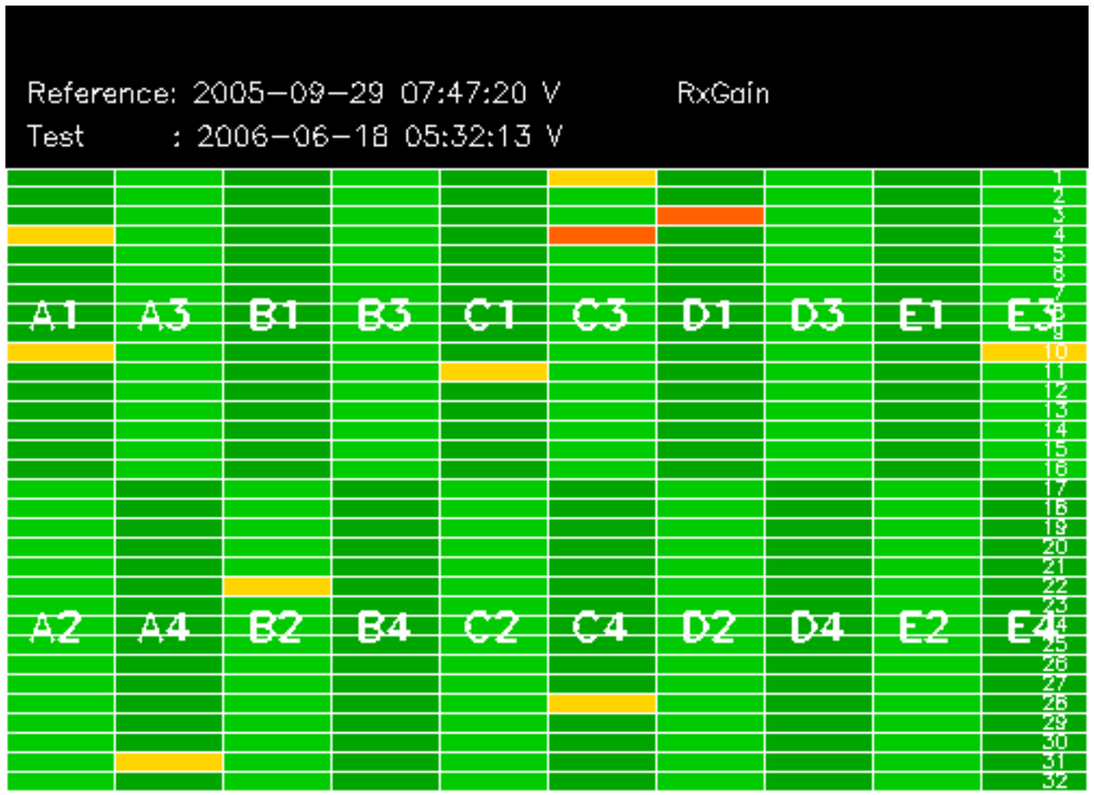
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-18 05:32:13 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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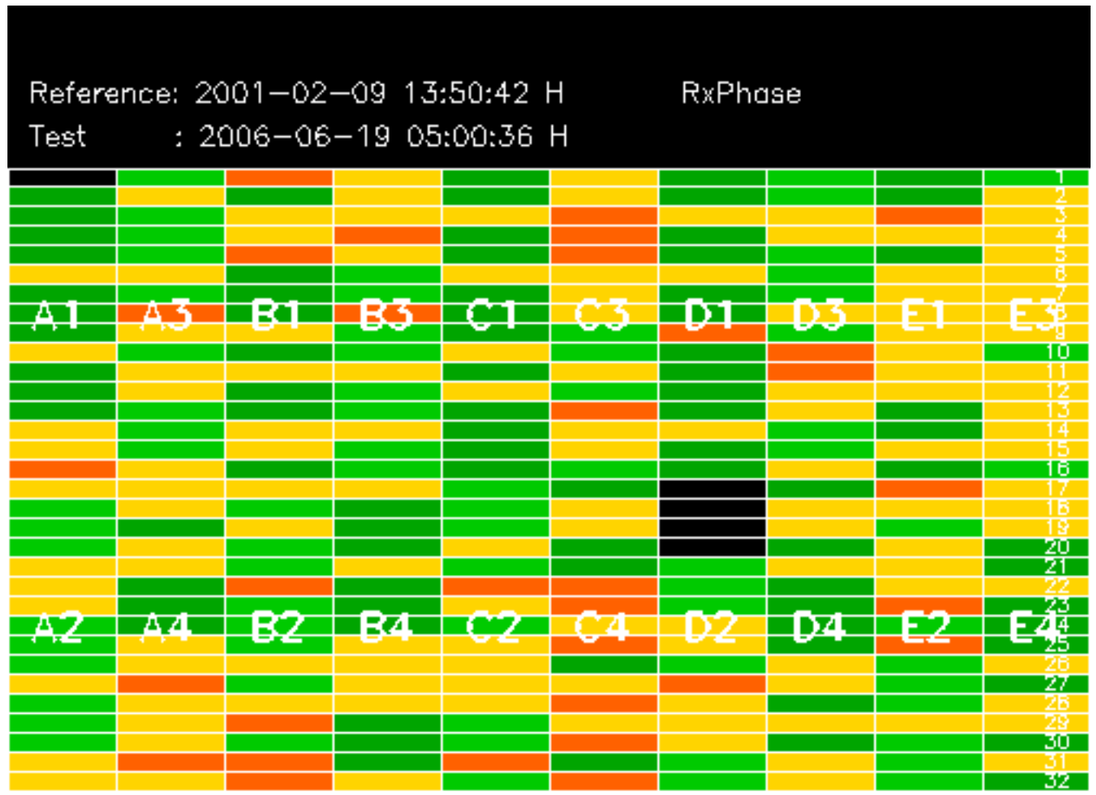
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-06-19 05:00:36 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-06-19 05:00:36 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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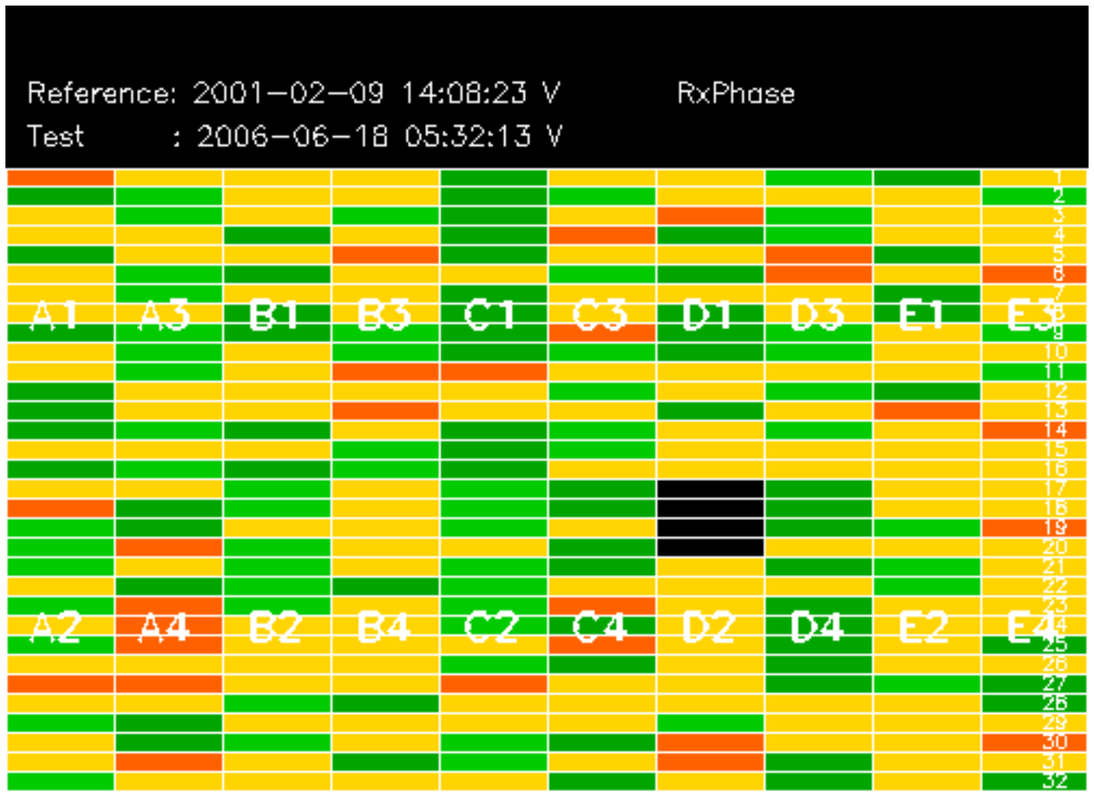
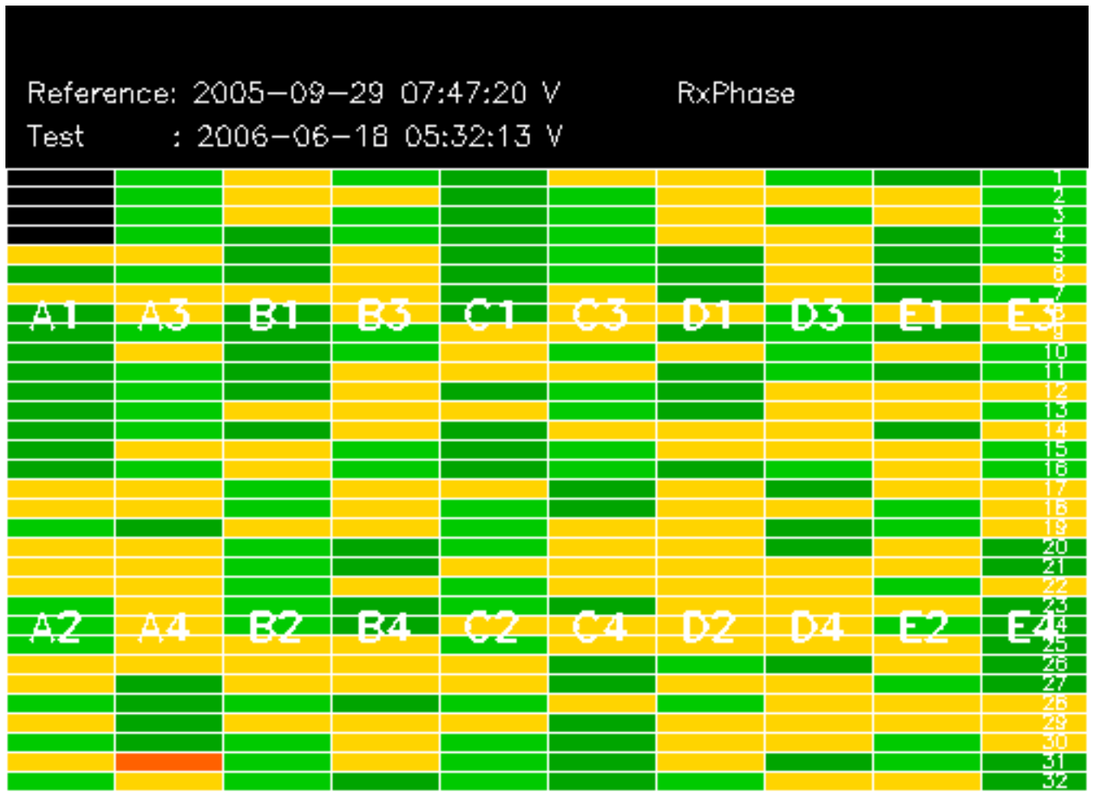
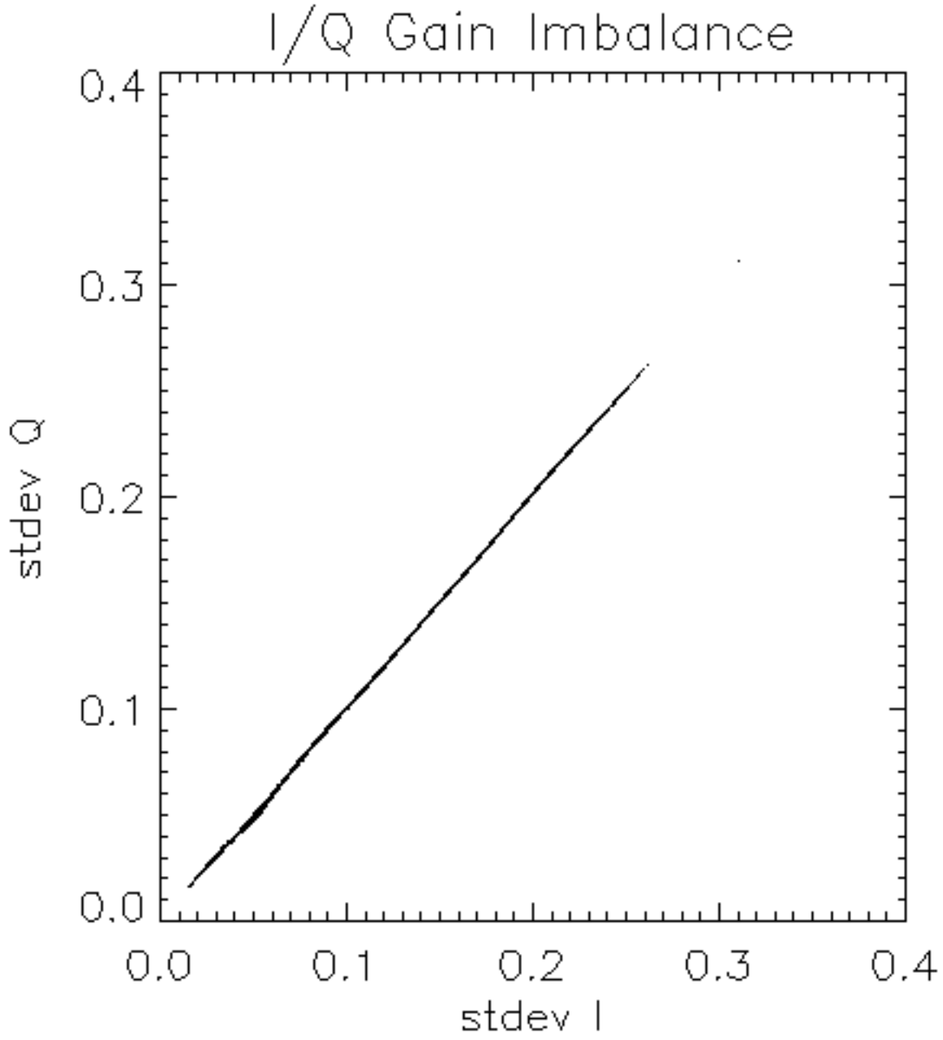
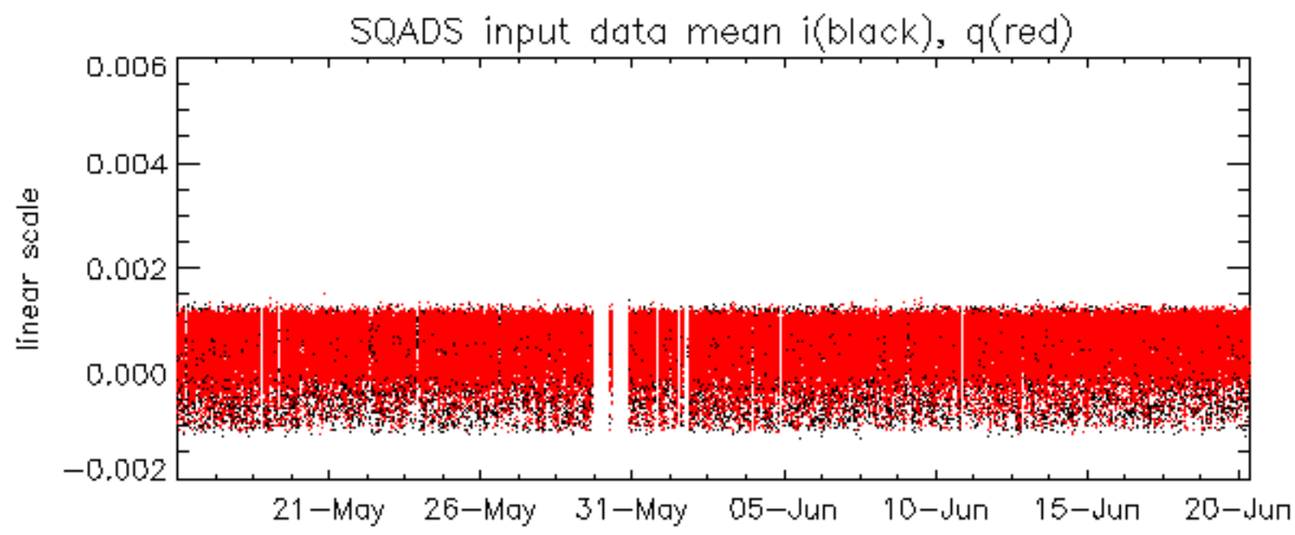
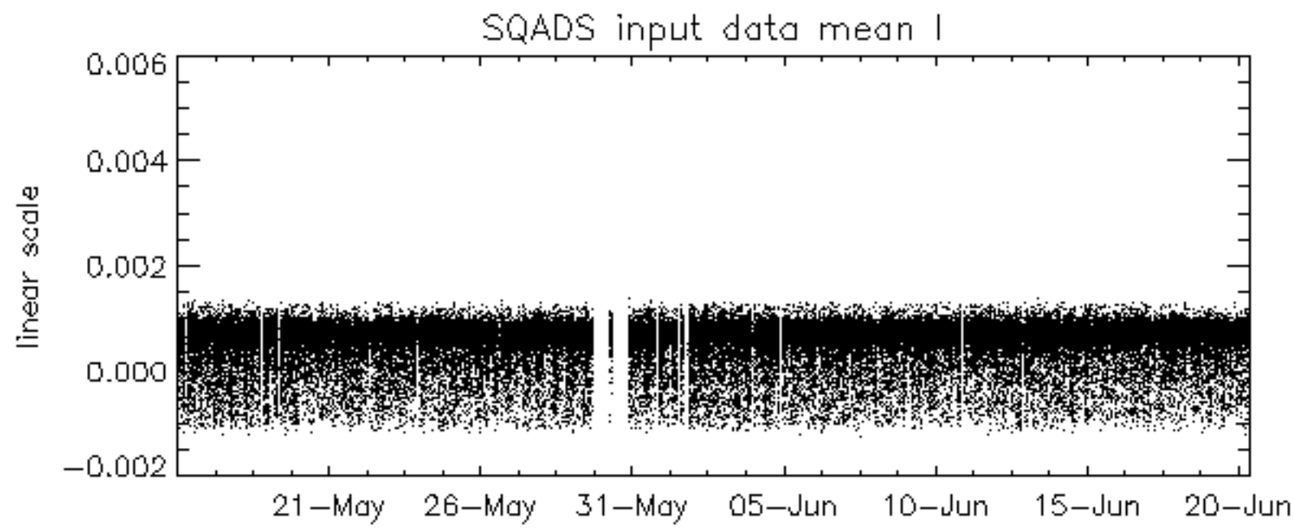
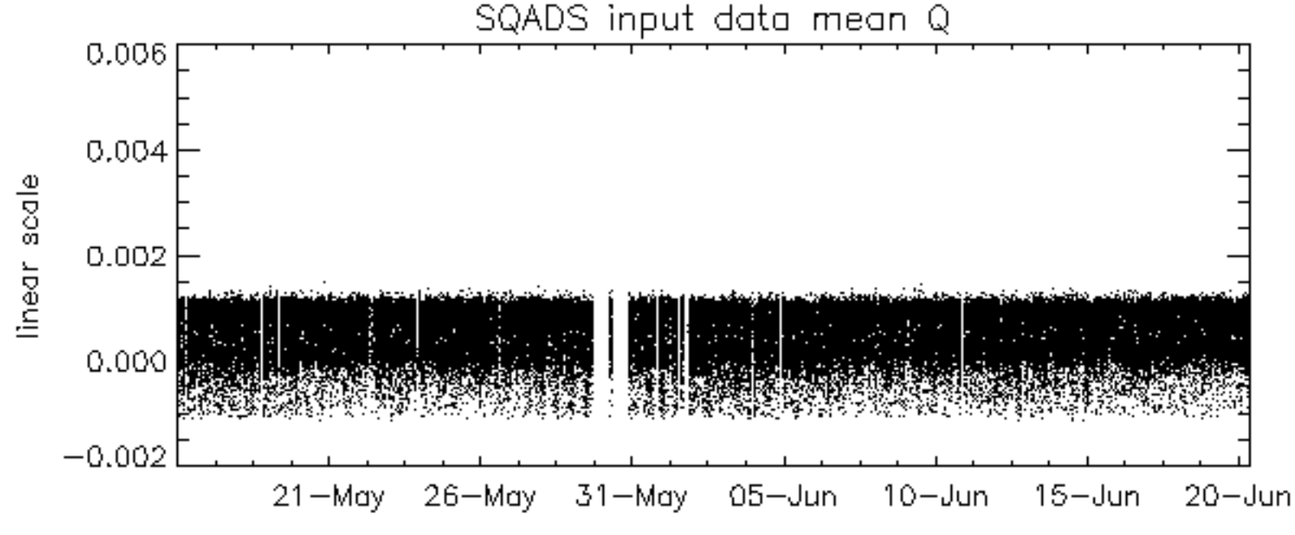

Reference: 2001-02-09 14:08:23 V
Test : 2006-06-18 05:32:13 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

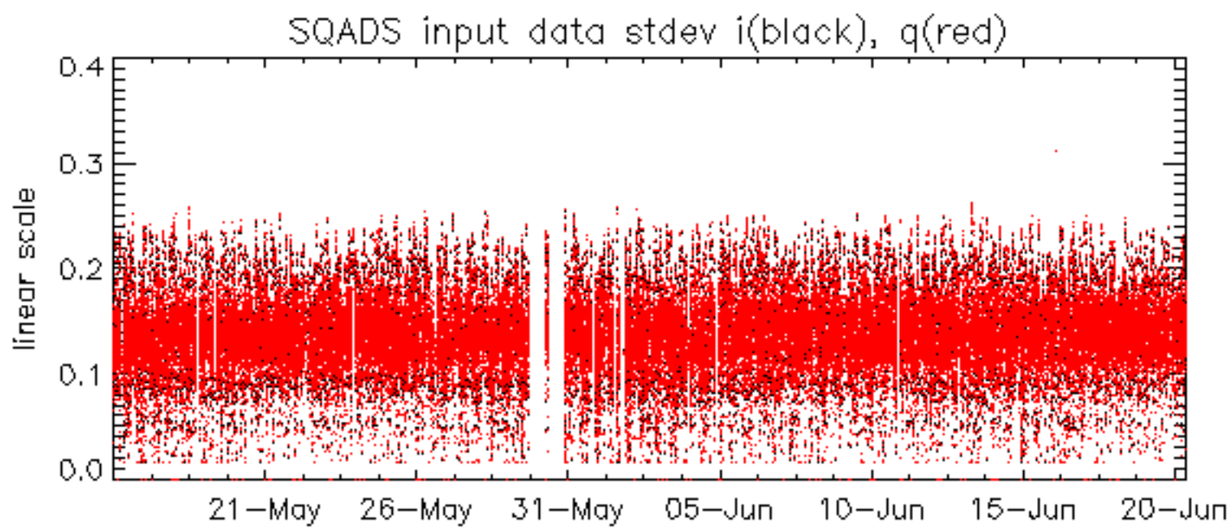

Reference: 2005-09-29 07:47:20 V
RxPhase
Test : 2006-06-18 05:32:13 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

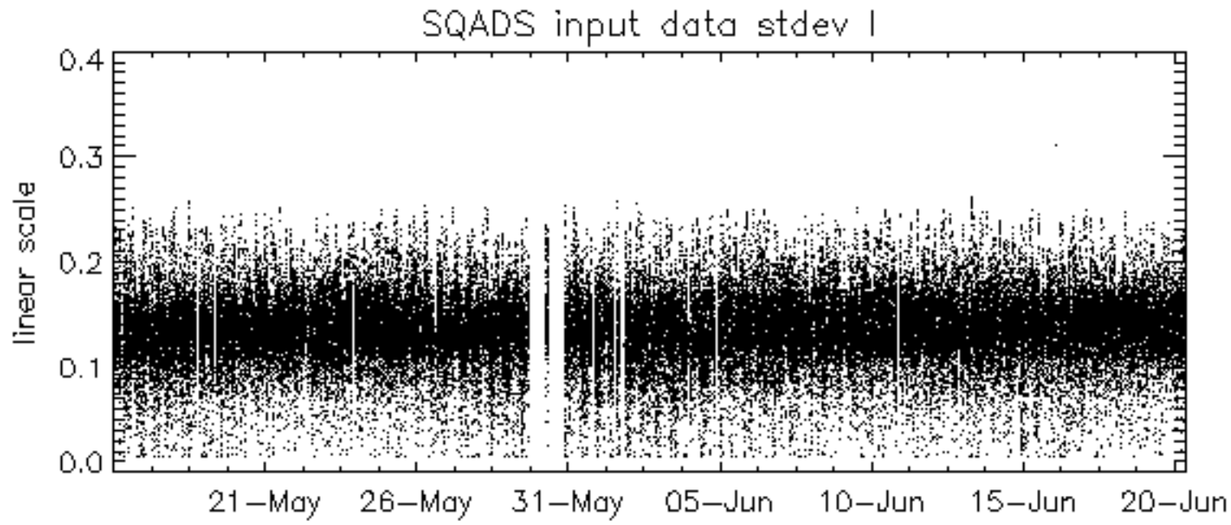

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

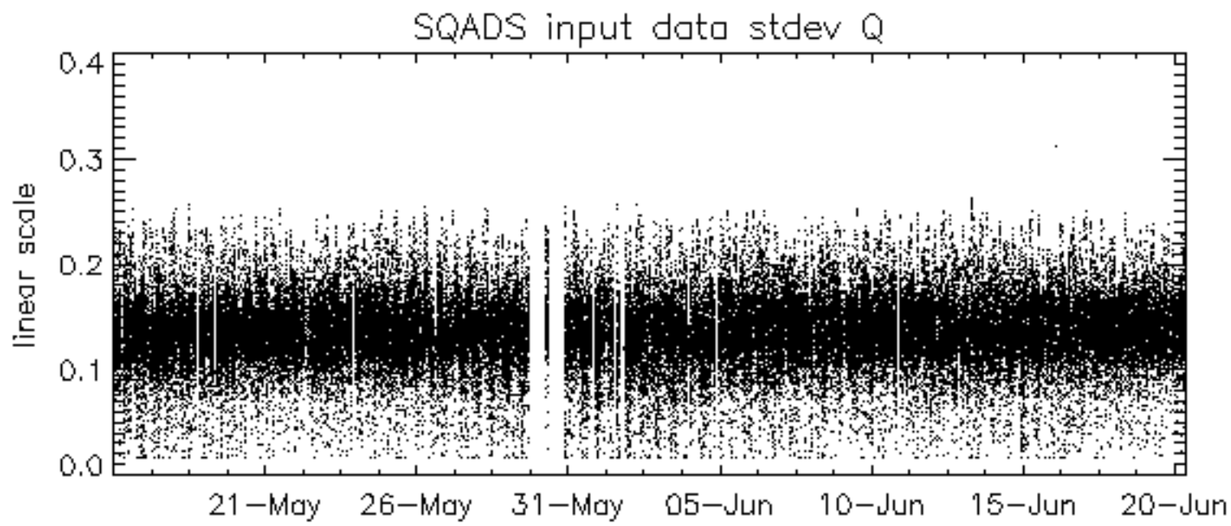

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun

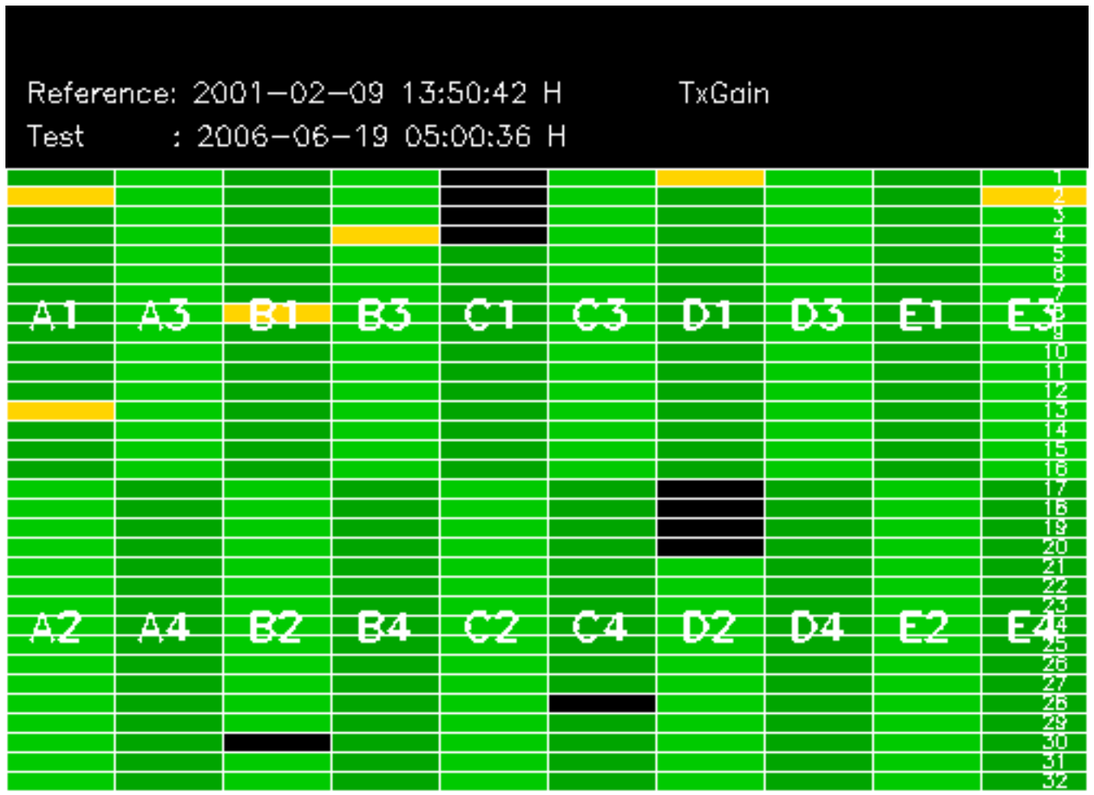

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun


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


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun
20−Jun


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-19 05:00:36 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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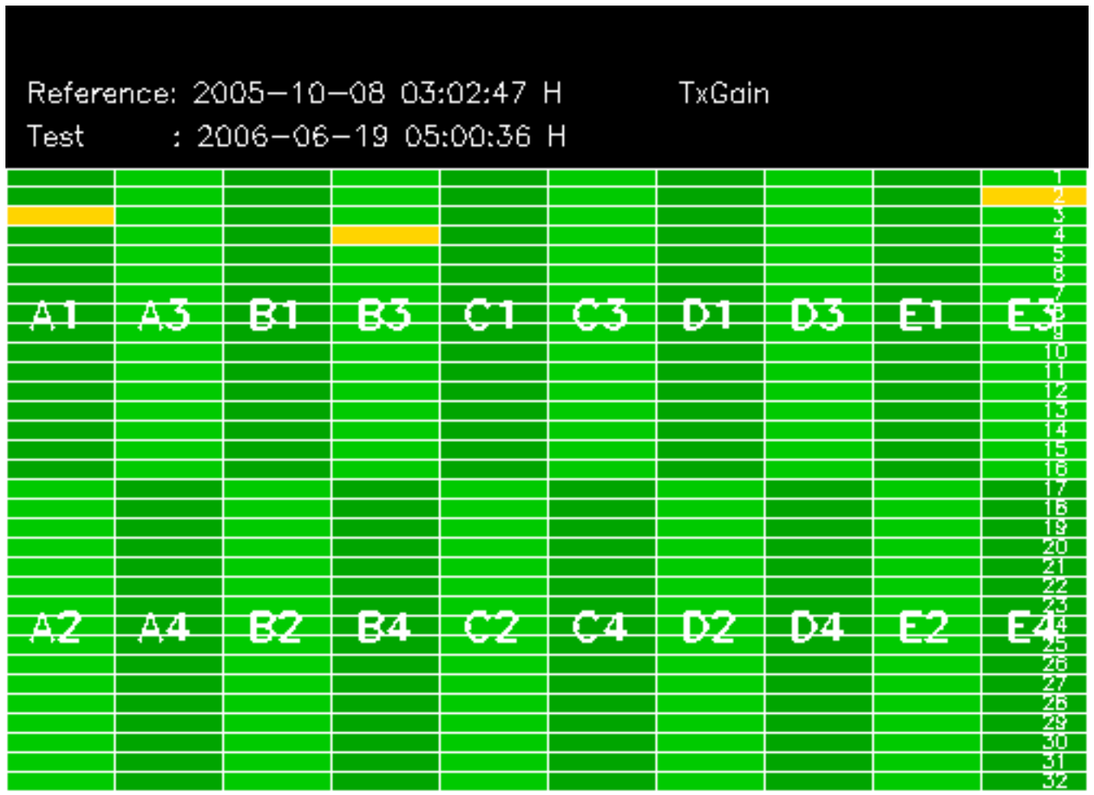
Reference: 2005-10-08 03:02:47 H
Test : 2006-06-19 05:00:36 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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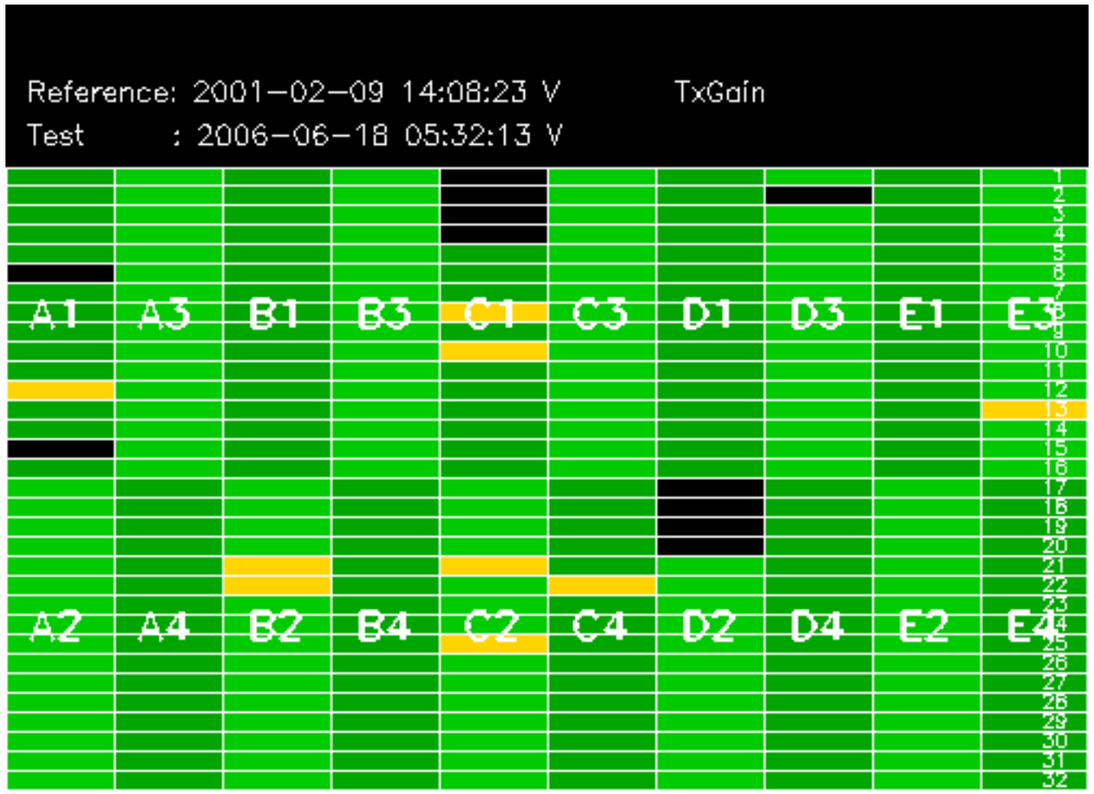
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-18 05:32:13 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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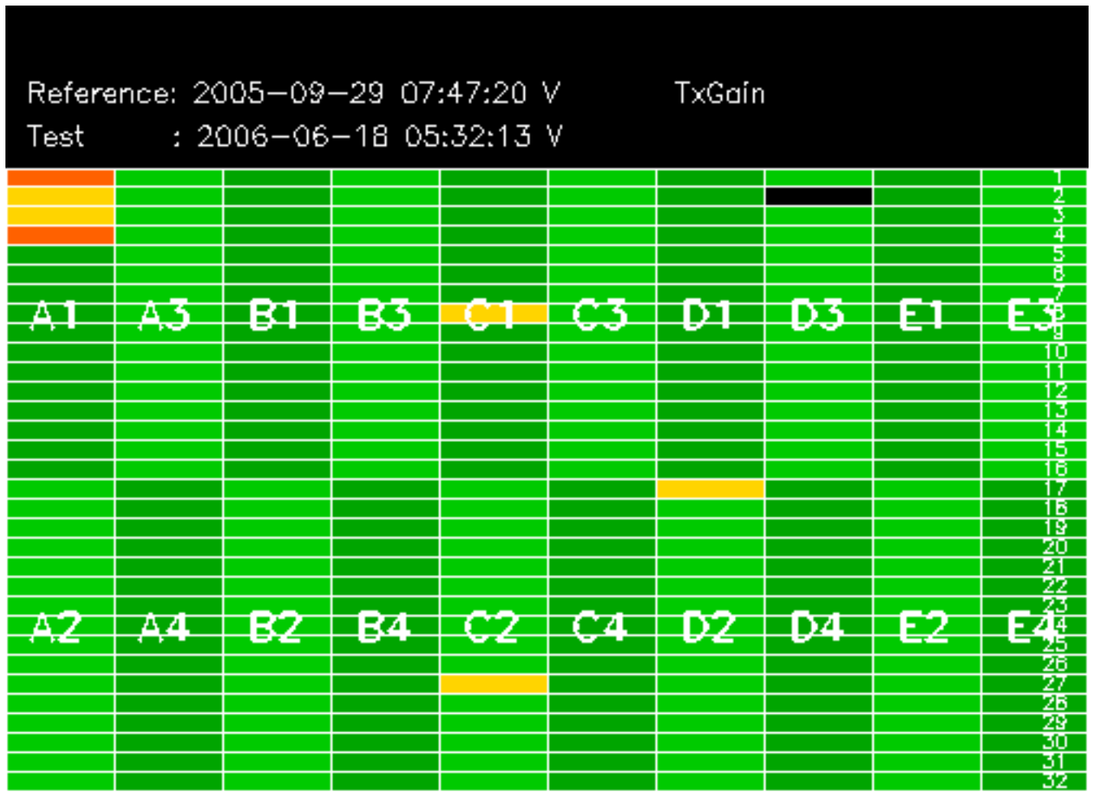
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-18 05:32:13 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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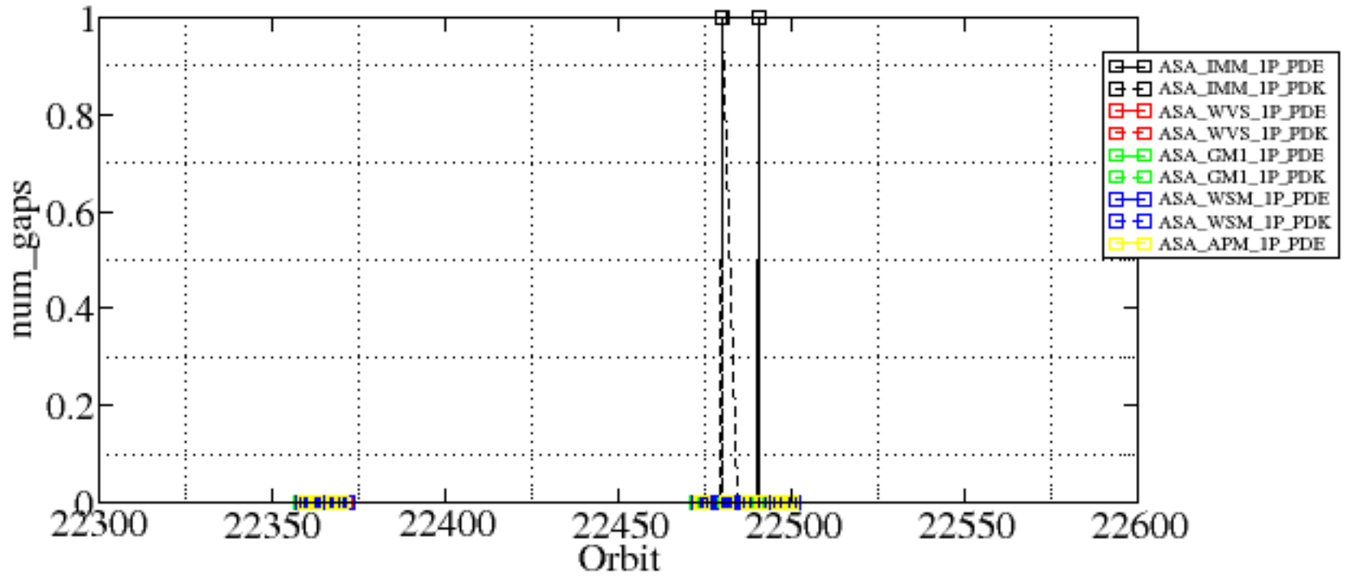
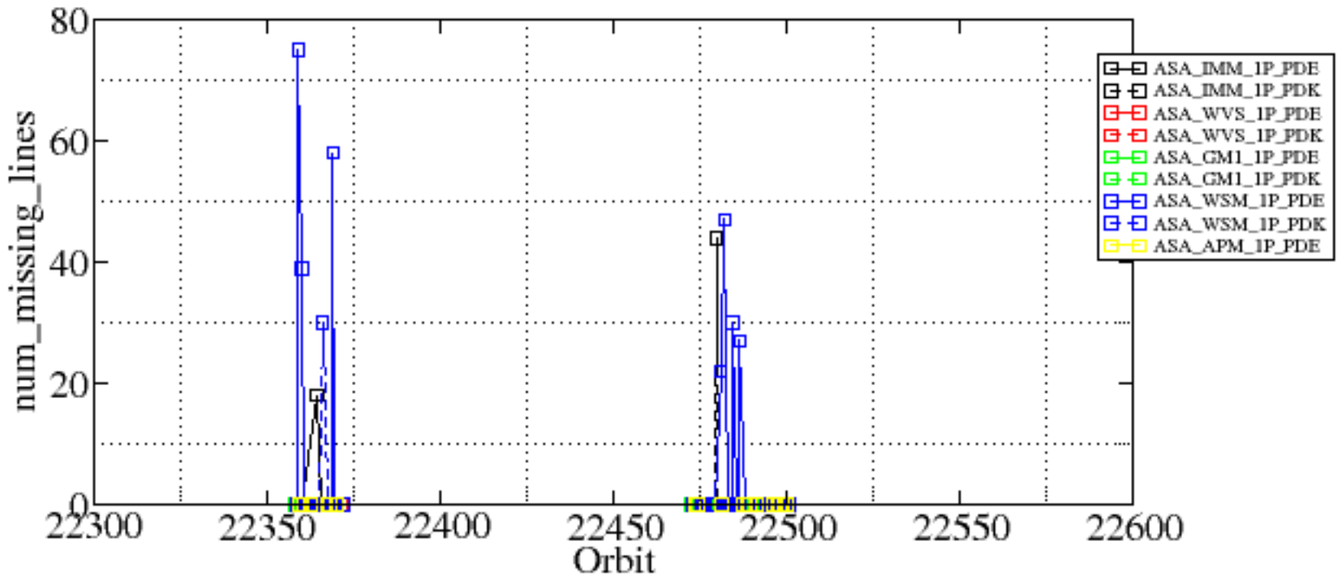
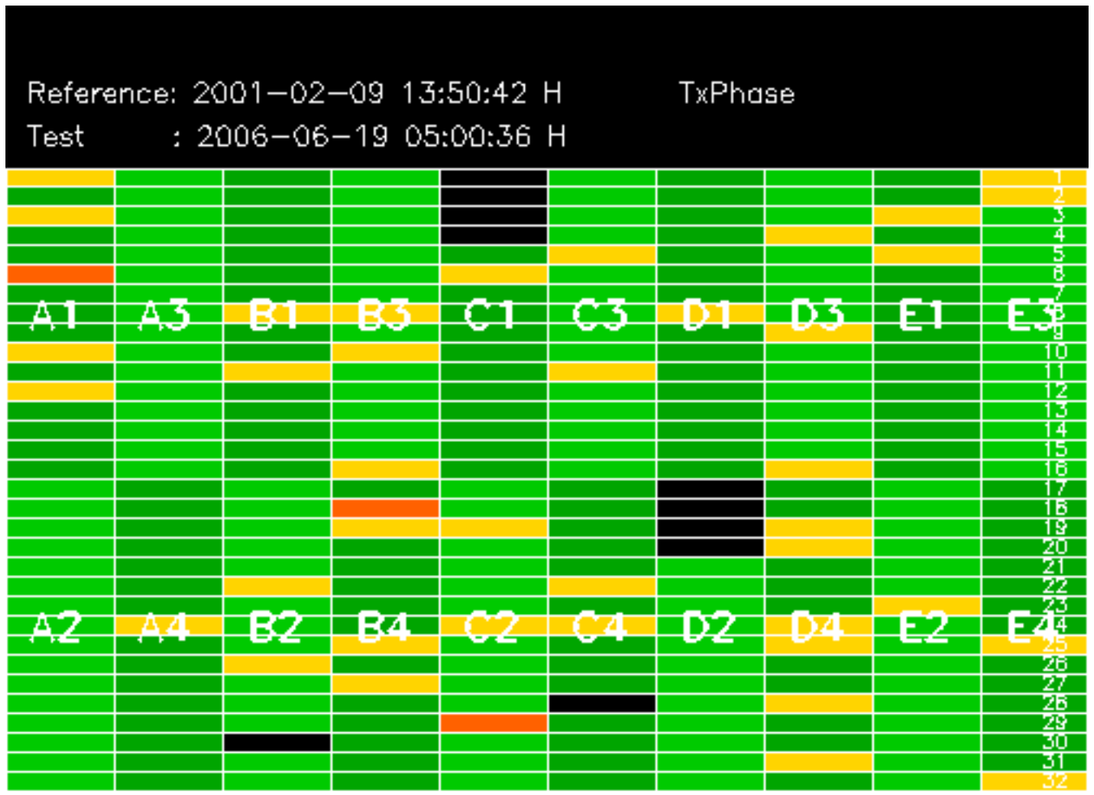
Summary of analysis for the last 3 days 2006061[890]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20060610_110007_000000342048_00266_22364_6947.N1	0	18
ASA_IMM_1PNPDE20060619_062814_000001452048_00392_22490_8058.N1	1	0
ASA_IMM_1PNPDK20060618_121934_000000622048_00381_22479_2870.N1	1	44
ASA_IMM_1PNPDK20060618_125918_000000372048_00382_22480_2868.N1	1	0
ASA_WSM_1PNPDE20060610_015903_000001462048_00261_22359_3573.N1	0	75
ASA_WSM_1PNPDE20060610_033801_000000852048_00262_22360_3591.N1	0	39
ASA_WSM_1PNPDE20060610_184505_000001842048_00271_22369_3667.N1	0	58
ASA_WSM_1PNPDE20060618_143248_000001282048_00383_22481_4580.N1	0	22
ASA_WSM_1PNPDE20060618_161434_000001832048_00384_22482_4579.N1	0	47
ASA_WSM_1PNPDE20060618_201434_000000852048_00386_22484_4597.N1	0	30
ASA_WSM_1PNPDE20060618_234032_000000852048_00388_22486_4614.N1	0	27
ASA_WSM_1PNPDK20060610_134308_000002082048_00268_22366_7314.N1	0	30


num_gaps
Orbit
1
0.8
0.6
0.4
0.2
0
22300
22350
22400
22450
22500
22550
22600
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
80
60
40
20
0
22300
22350
22400
22450
22500
22550
22600
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
TxPhase
Test : 2006-06-19 05:00:36 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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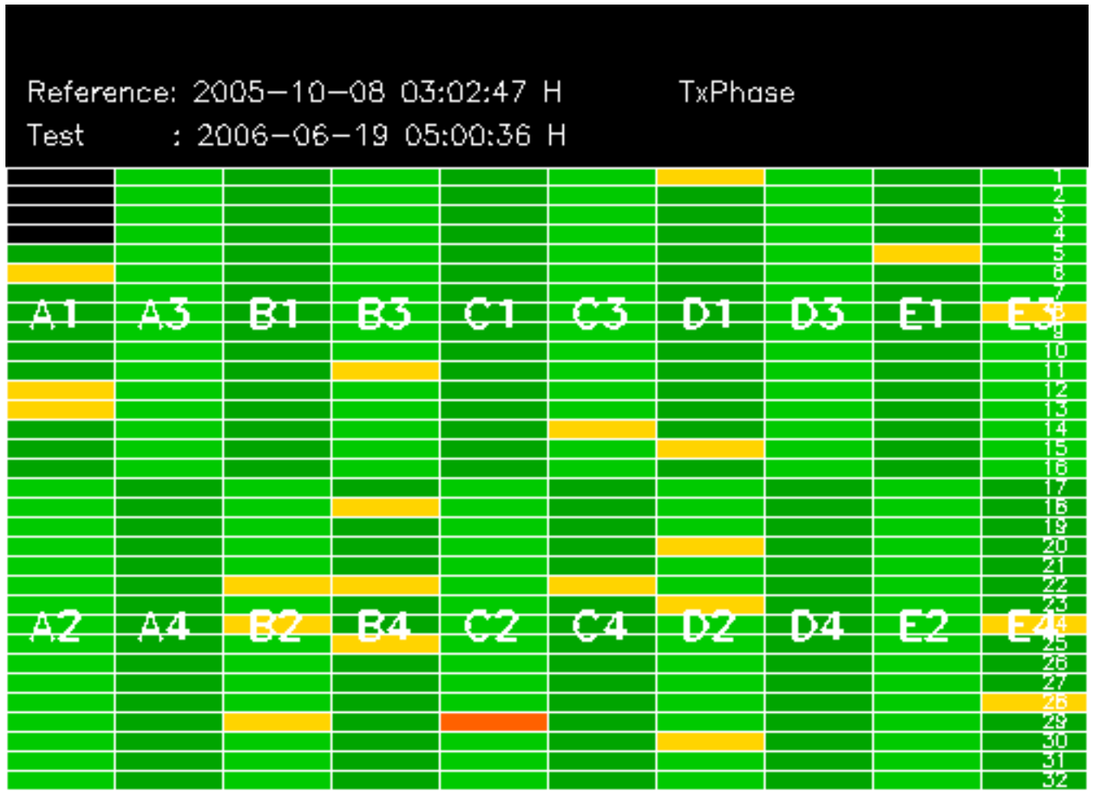
Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2006-06-19 05:00:36 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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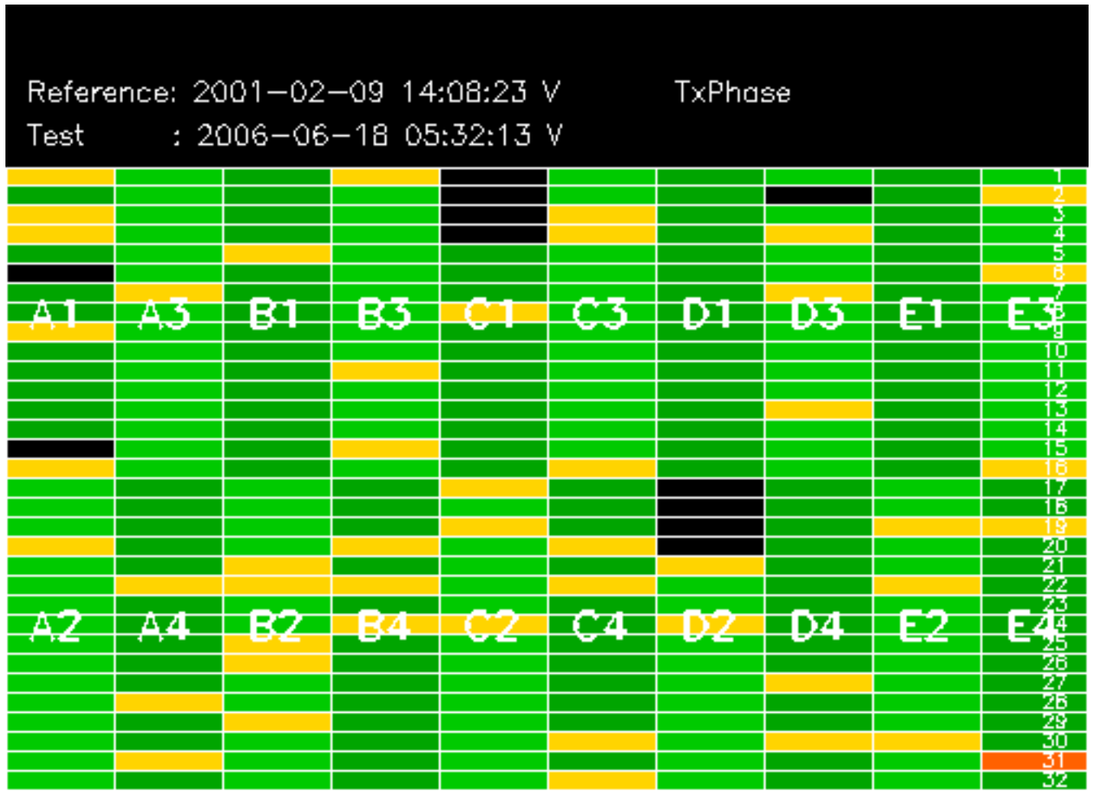
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-18 05:32:13 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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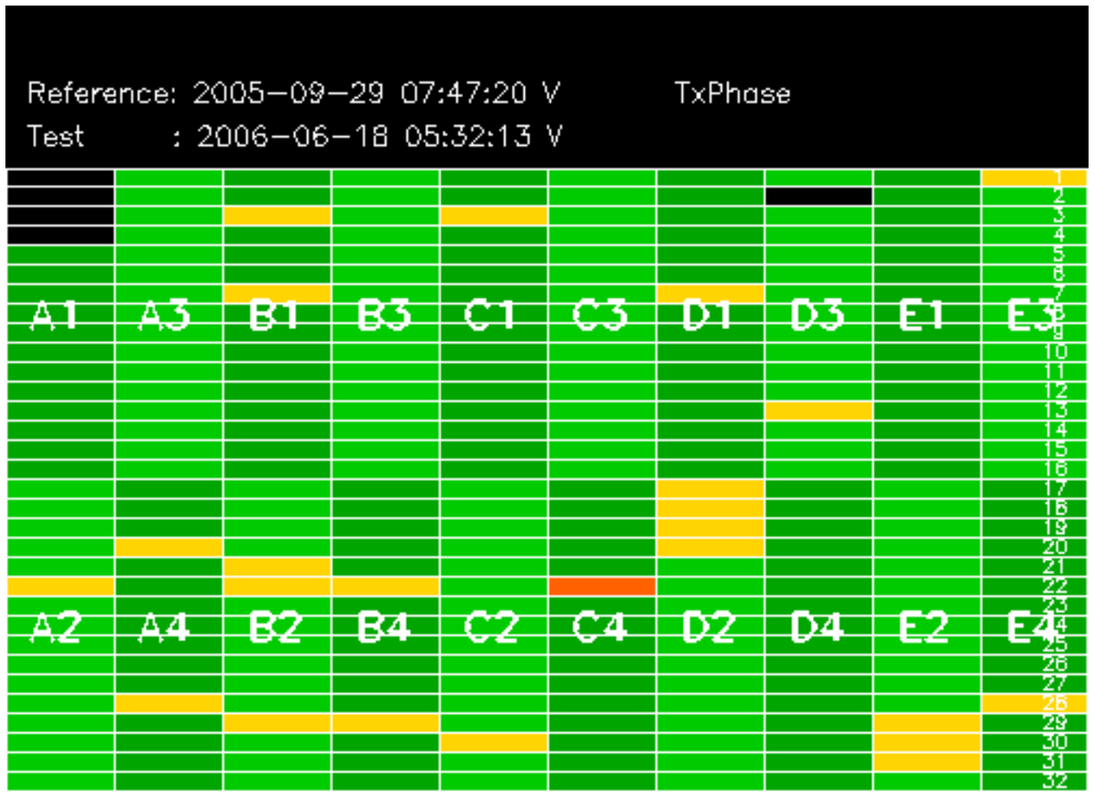
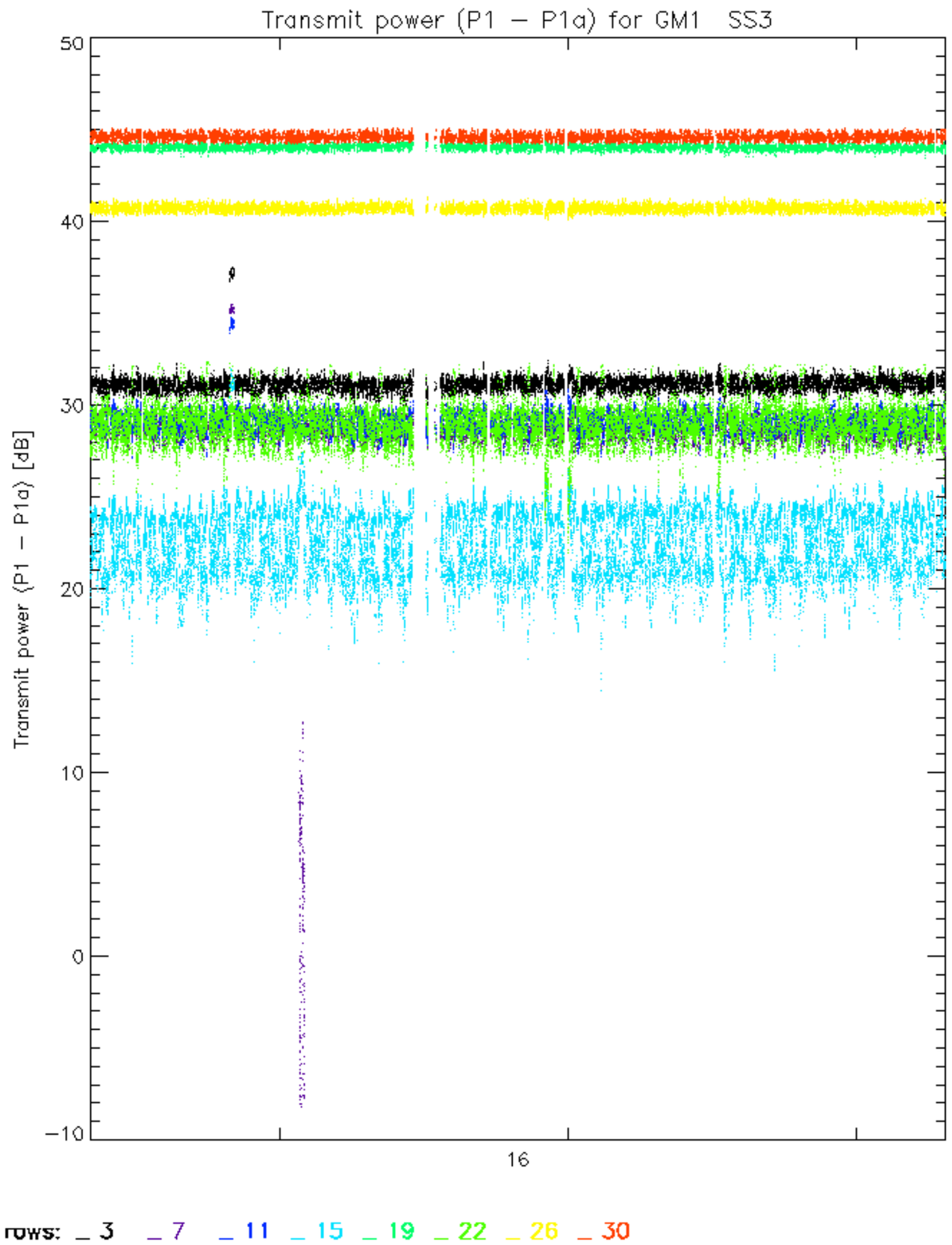
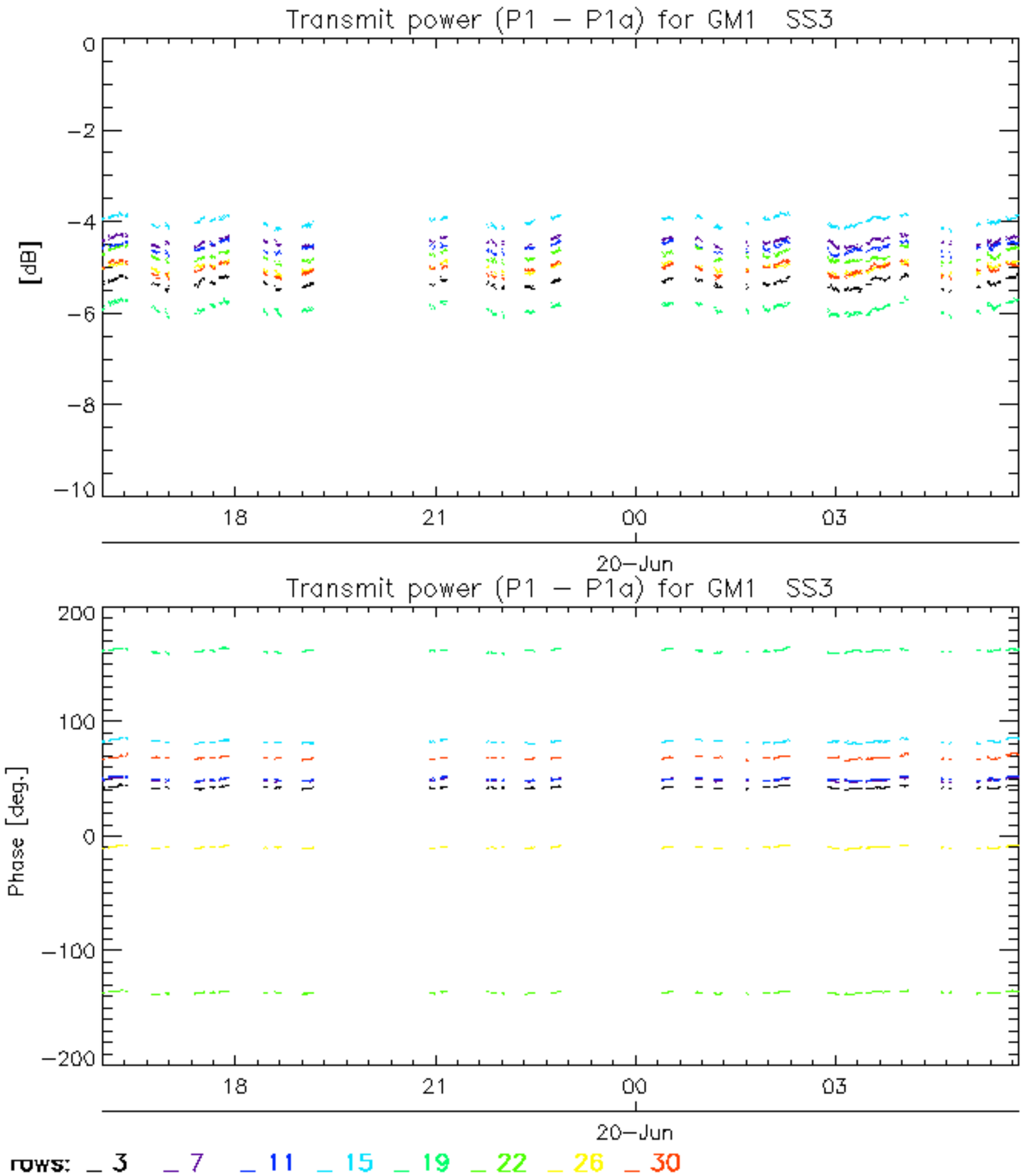
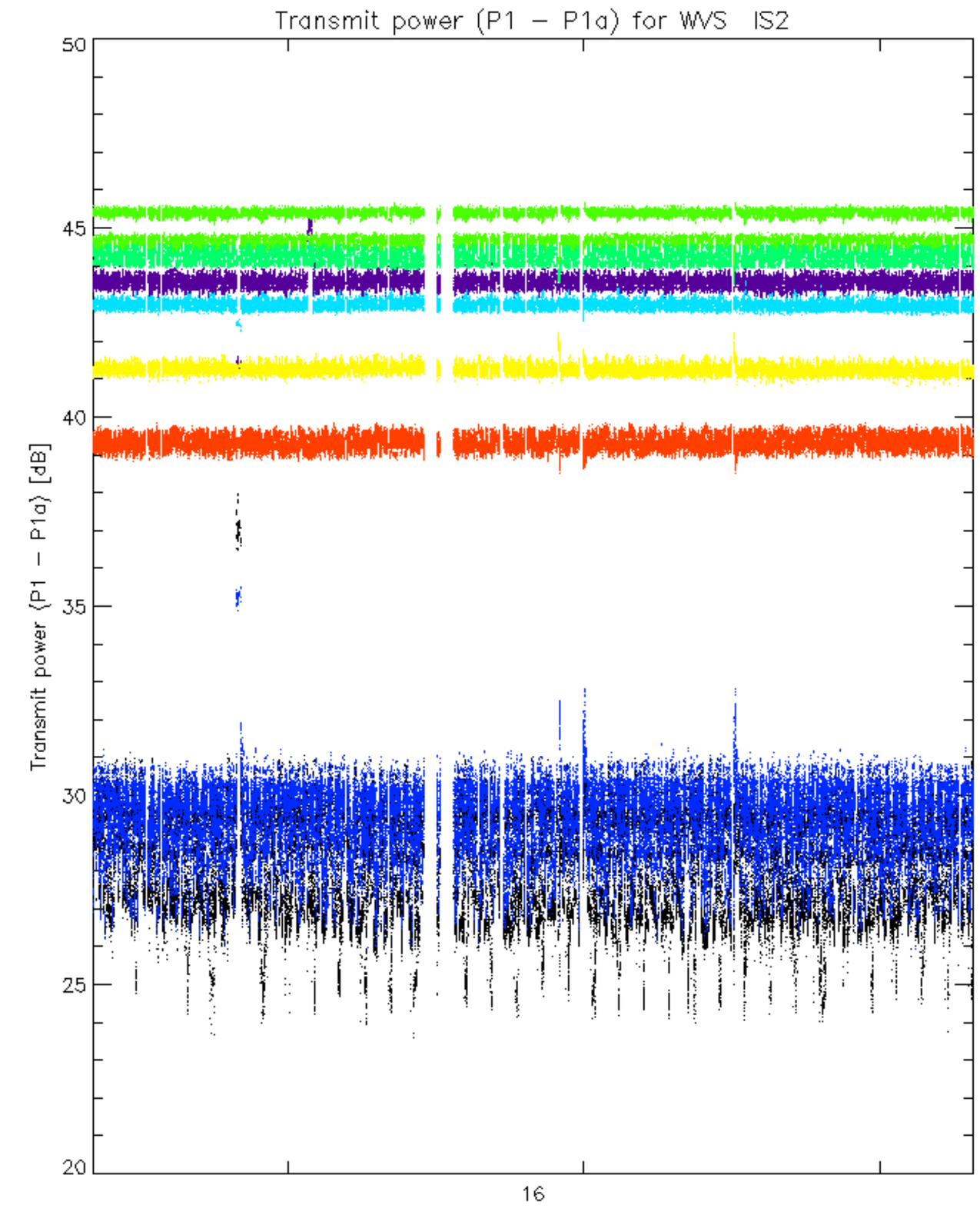
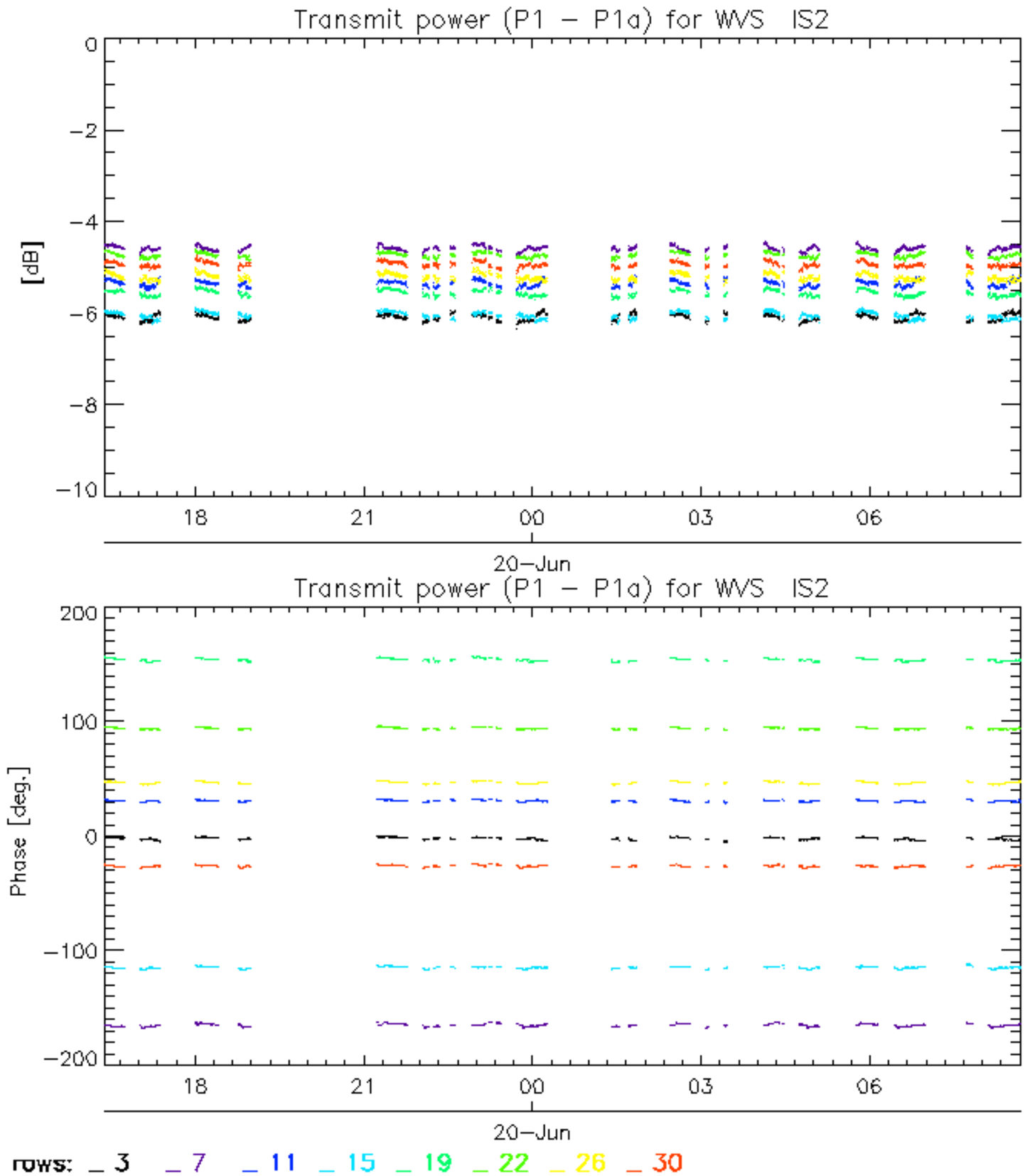

Reference: 2005-09-29 07:47:20 V
Test : 2006-06-18 05:32:13 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
16
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
20–Jun
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
20–Jun
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
Transmit power (P1 – P1a) [dB]
50
45
40
35
30
25
20
16
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
20–Jun
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
20–Jun
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.