PRELIMINARY REPORT OF 060619

last update on Mon Jun 19 16:45:21 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 2006-06-18 00:00:00 to 2006-06-19 16:45:21

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

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	31	67	17	1	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	31	67	17	1	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	31	67	17	1	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	31	67	17	1	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	43	55	63	11	41
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	43	55	63	11	41
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	43	55	63	11	41
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	43	55	63	11	41

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	20060617 060350

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	-3.935701	0.018469	0.040125
7	P1	-3.133870	0.015848	-0.045826
11	P1	-4.107216	0.019498	0.006635
15	P1	-6.146863	0.020245	-0.039857
19	P1	-3.346779	0.008548	-0.064865
22	P1	-4.515642	0.011562	-0.018091
26	P1	-3.971848	0.017014	0.014060
30	P1	-5.749849	0.008966	-0.016621
3	P1	-16.510826	0.249561	0.073315
7	P1	-17.220337	0.149978	-0.138742
11	P1	-16.953220	0.309294	-0.080100
15	P1	-13.207752	0.216438	0.071279
19	P1	-14.326579	0.051257	-0.148148
22	P1	-16.168161	0.367552	0.009645
26	P1	-15.223079	0.230032	0.104929
30	P1	-17.121939	0.405662	-0.185258

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.147852	0.079515	0.121770
7	P2	-22.032314	0.095494	0.102156
11	P2	-15.876792	0.109155	0.121981
15	P2	-7.159431	0.092370	0.000419
19	P2	-9.172271	0.083724	-0.016469
22	P2	-18.158503	0.081677	-0.072809
26	P2	-16.399569	0.085642	-0.067537
30	P2	-19.560457	0.085523	0.014948

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.184916	0.004042	-0.009810
7	P3	-8.184916	0.004042	-0.009810
11	P3	-8.184916	0.004042	-0.009810
15	P3	-8.184916	0.004042	-0.009810
19	P3	-8.184916	0.004042	-0.009810
22	P3	-8.184916	0.004042	-0.009810
26	P3	-8.184916	0.004042	-0.009810
30	P3	-8.184916	0.004042	-0.009810

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	-3.801677	0.051402	0.010606
7	P1	-2.590940	0.030689	0.044793
11	P1	-2.861283	0.023147	0.025255
15	P1	-3.508904	0.050880	-0.027663
19	P1	-3.408371	0.014356	-0.025675
22	P1	-5.080767	0.019475	0.000429
26	P1	-5.853822	0.015793	-0.034111
30	P1	-5.192325	0.026868	-0.019388
3	P1	-11.624340	0.053463	0.013836
7	P1	-9.966555	0.048969	-0.068960
11	P1	-10.215687	0.086901	-0.071728
15	P1	-10.651015	0.155018	-0.103581
19	P1	-15.536718	0.076001	-0.049323
22	P1	-20.937366	1.173045	-0.140551

26	P1	-16.475935	0.329200	0.033063
30	P1	-17.916050	0.368282	0.185428

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.836489	0.071770	0.158271
7	P2	-22.493504	0.129430	0.060353
11	P2	-11.154276	0.048130	0.076686
15	P2	-4.919017	0.048879	-0.029413
19	P2	-6.882178	0.053078	-0.012653
22	P2	-8.208175	0.042947	-0.019595
26	P2	-24.136099	0.068505	-0.088865
30	P2	-22.063675	0.056212	0.016037

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.019354	0.004898	-0.012095
7	P3	-8.019412	0.004878	-0.012088
11	P3	-8.019360	0.004873	-0.012019
15	P3	-8.019328	0.004883	-0.012076
19	P3	-8.019354	0.004880	-0.012060
22	P3	-8.019567	0.004878	-0.012405
26	P3	-8.019465	0.004879	-0.012016
30	P3	-8.019421	0.004878	-0.012120

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

☒

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	0.000547075
	stdev	1.80056e-07
MEAN Q	mean	0.000518109
	stdev	2.24205e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.135829
	stdev	0.00116823
STDEV Q	mean	0.136177
	stdev	0.00118553

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006061[789]
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_1PNPDE20060617_182649_000000352048_00371_22469_7779.N1	0	16
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_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_1PNPDK20060617_082213_000000862048_00365_22463_7763.N1	0	35
ASA_APM_1PNPDE20060617_004226_000000562048_00360_22458_3444.N1	0	19

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

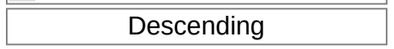
Evolution of unbiased Doppler error (Real - Expected)

Acsending

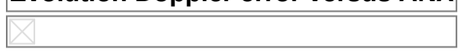
Descending

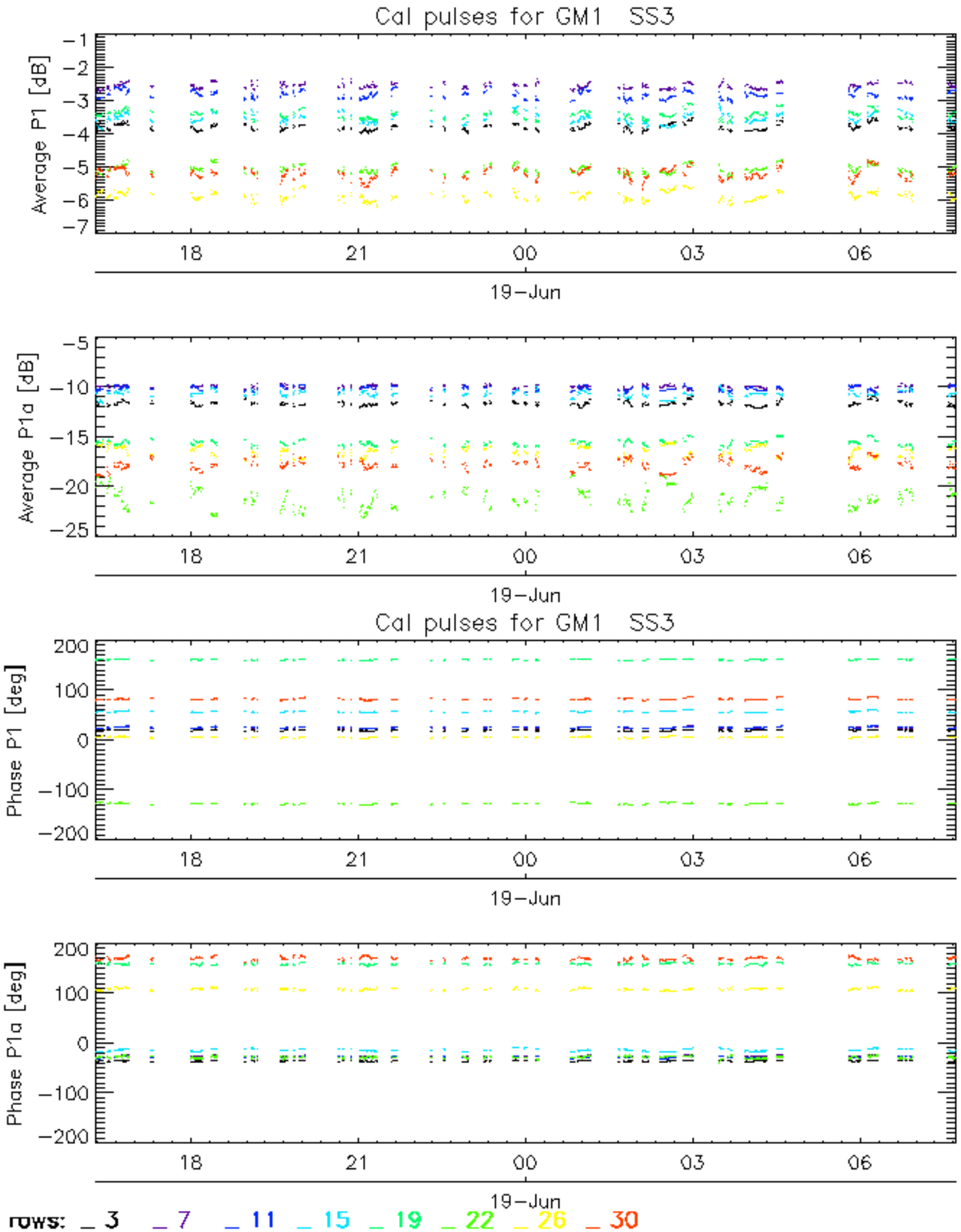
7.5 - Absolute Doppler for GM1

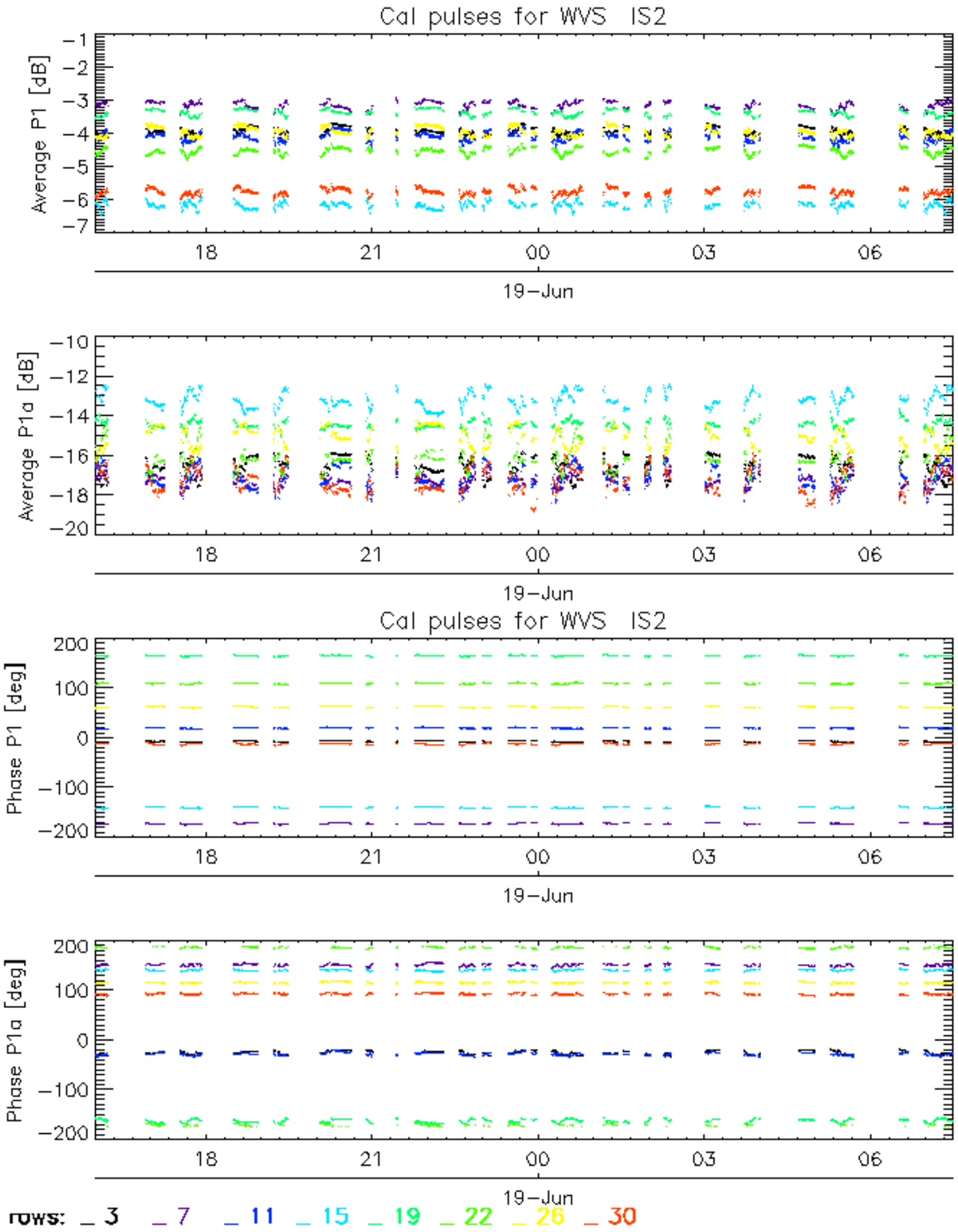
Evolution of Absolute Doppler

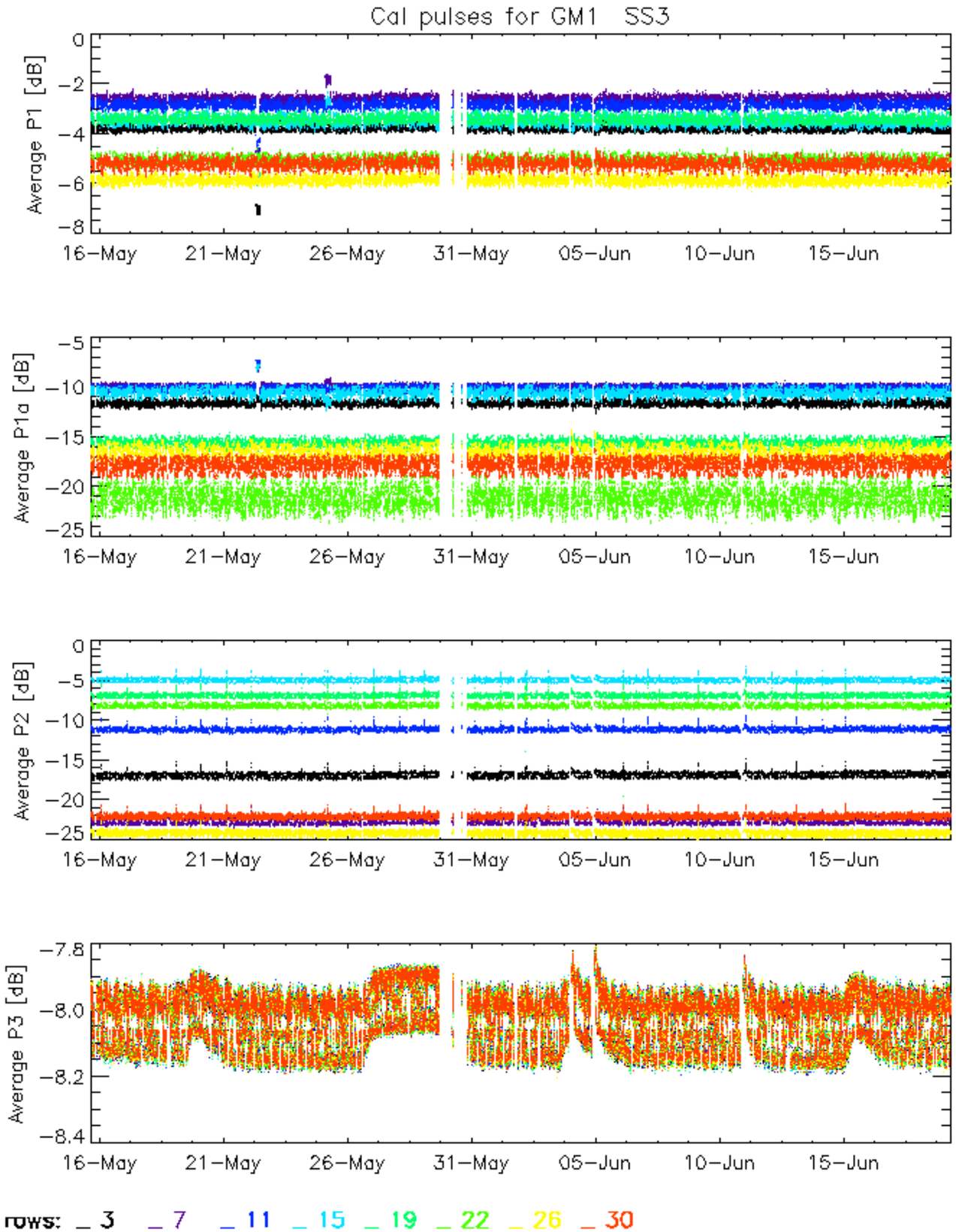
Acsending

Descending

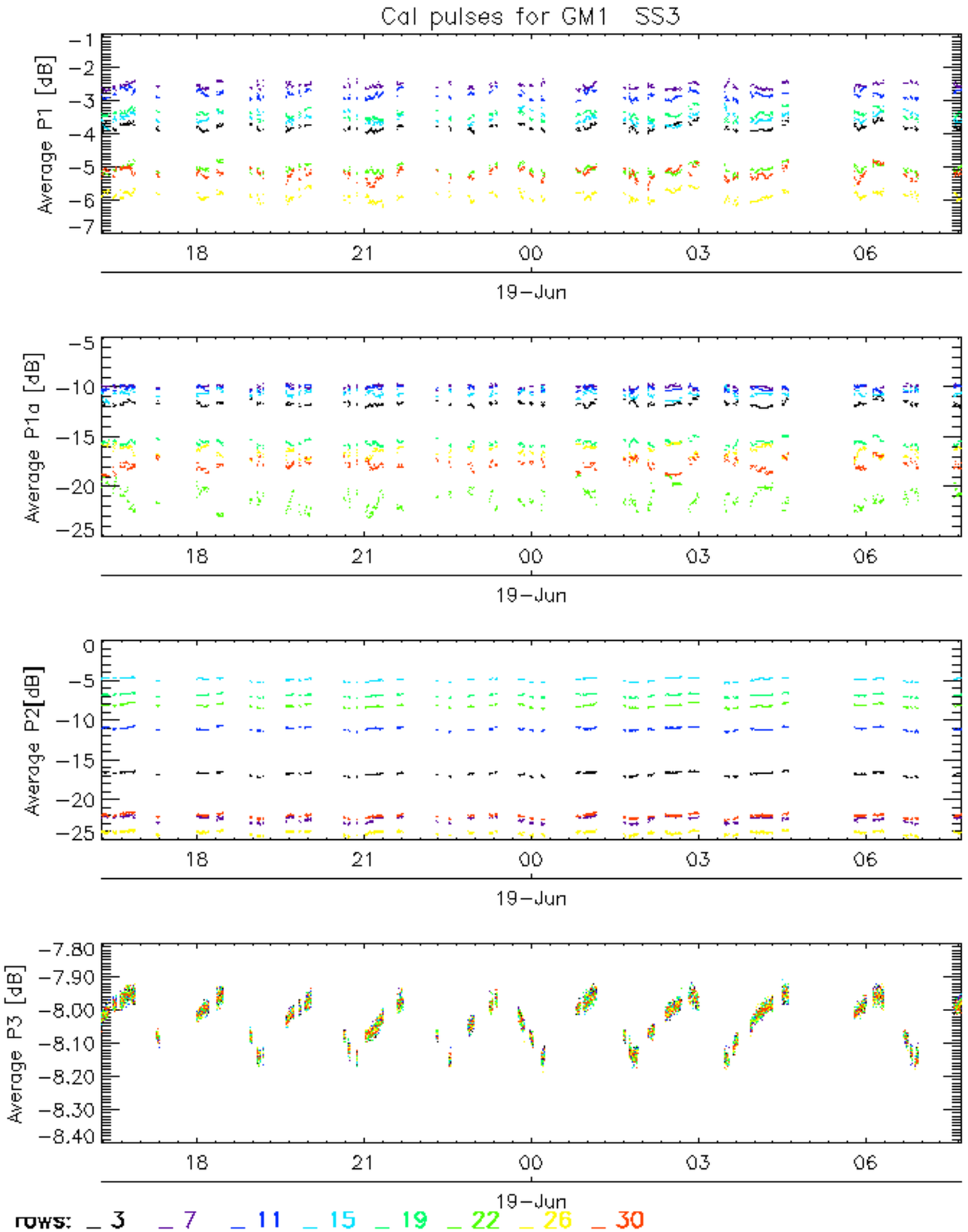
7.6 - Doppler evolution versus ANX for GM1

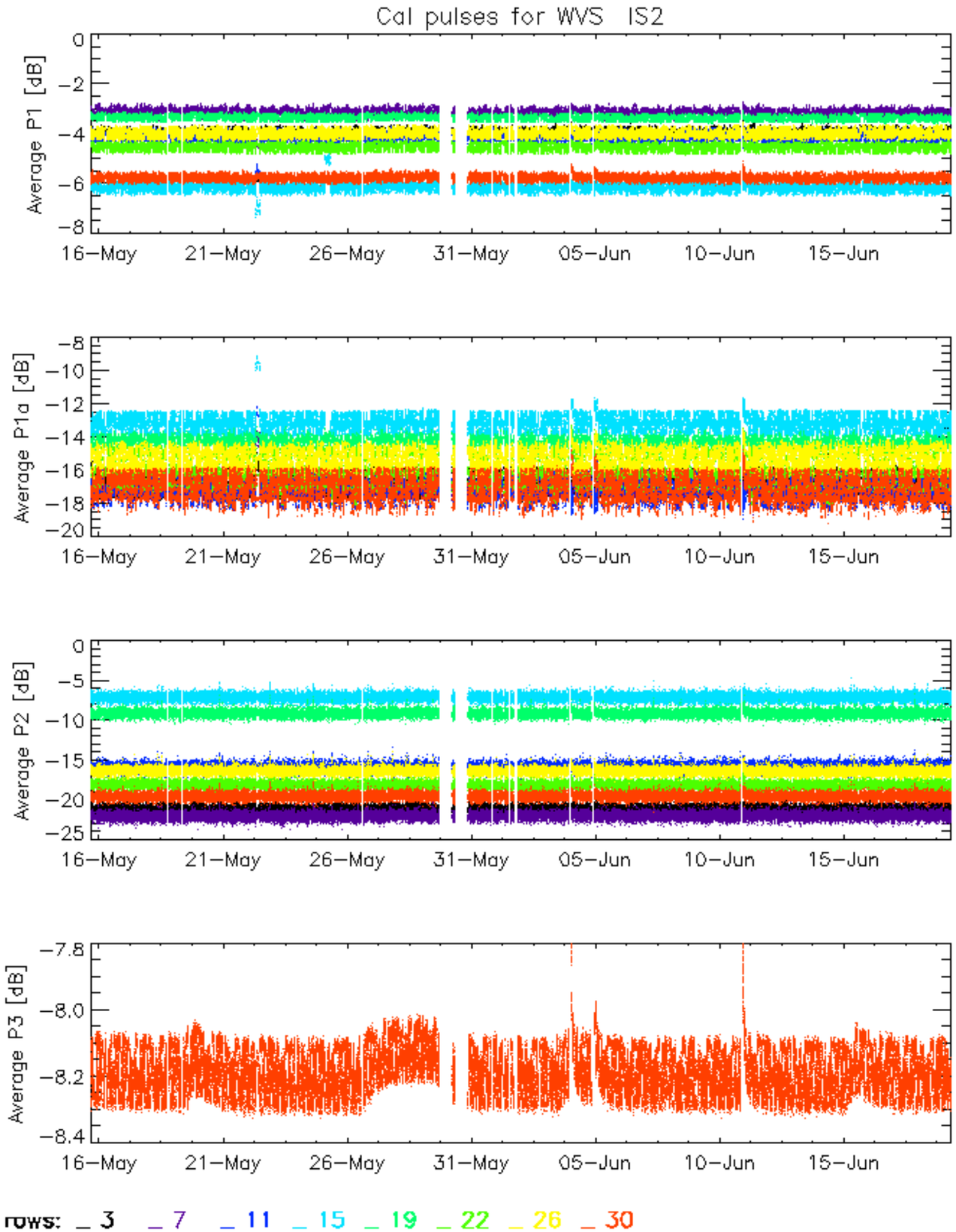
Evolution Doppler error versus ANX


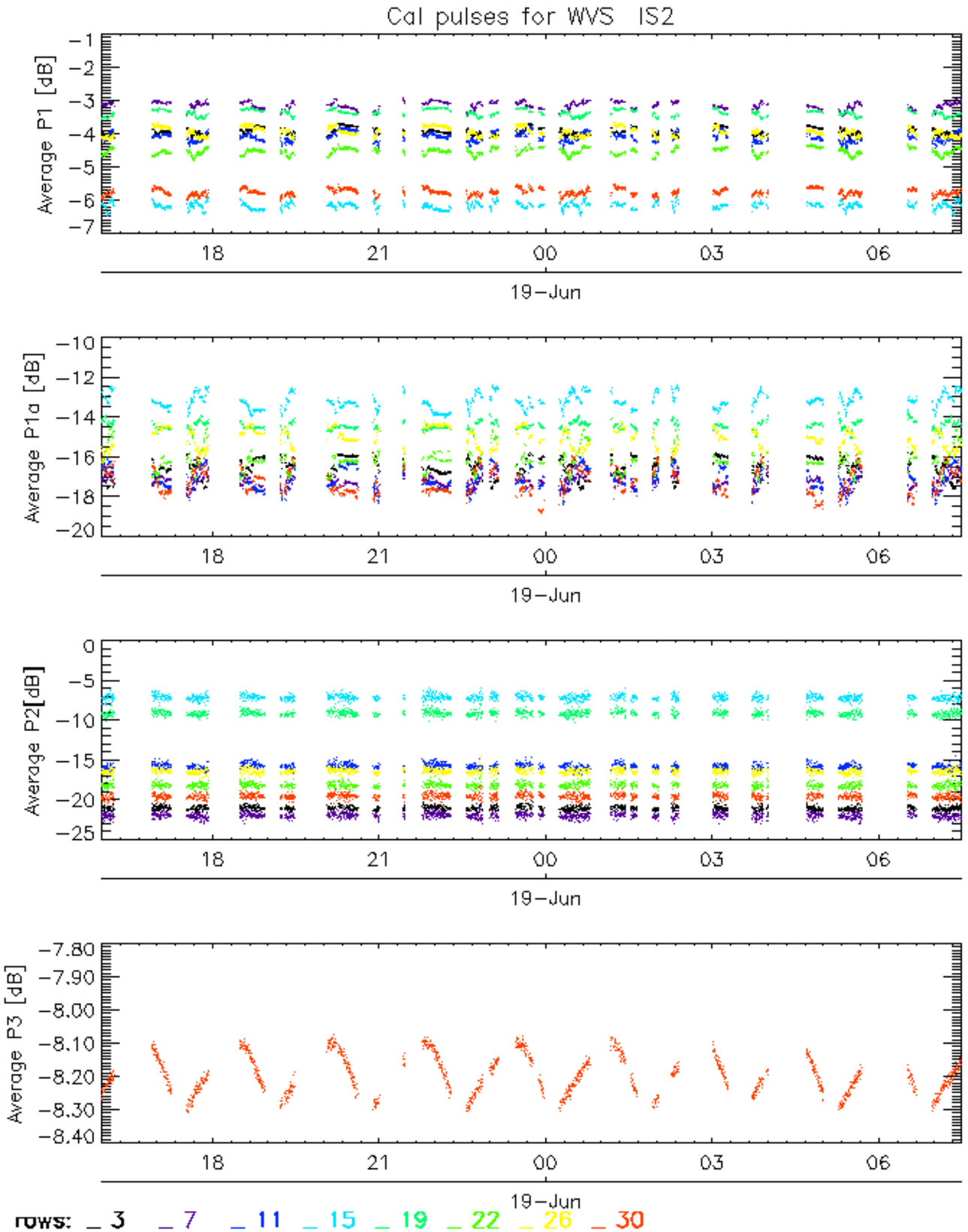

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
19−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
19−Jun
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
19−Jun
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
19−Jun
rows: _ 3 _ 7 _ 11 _ 15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


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

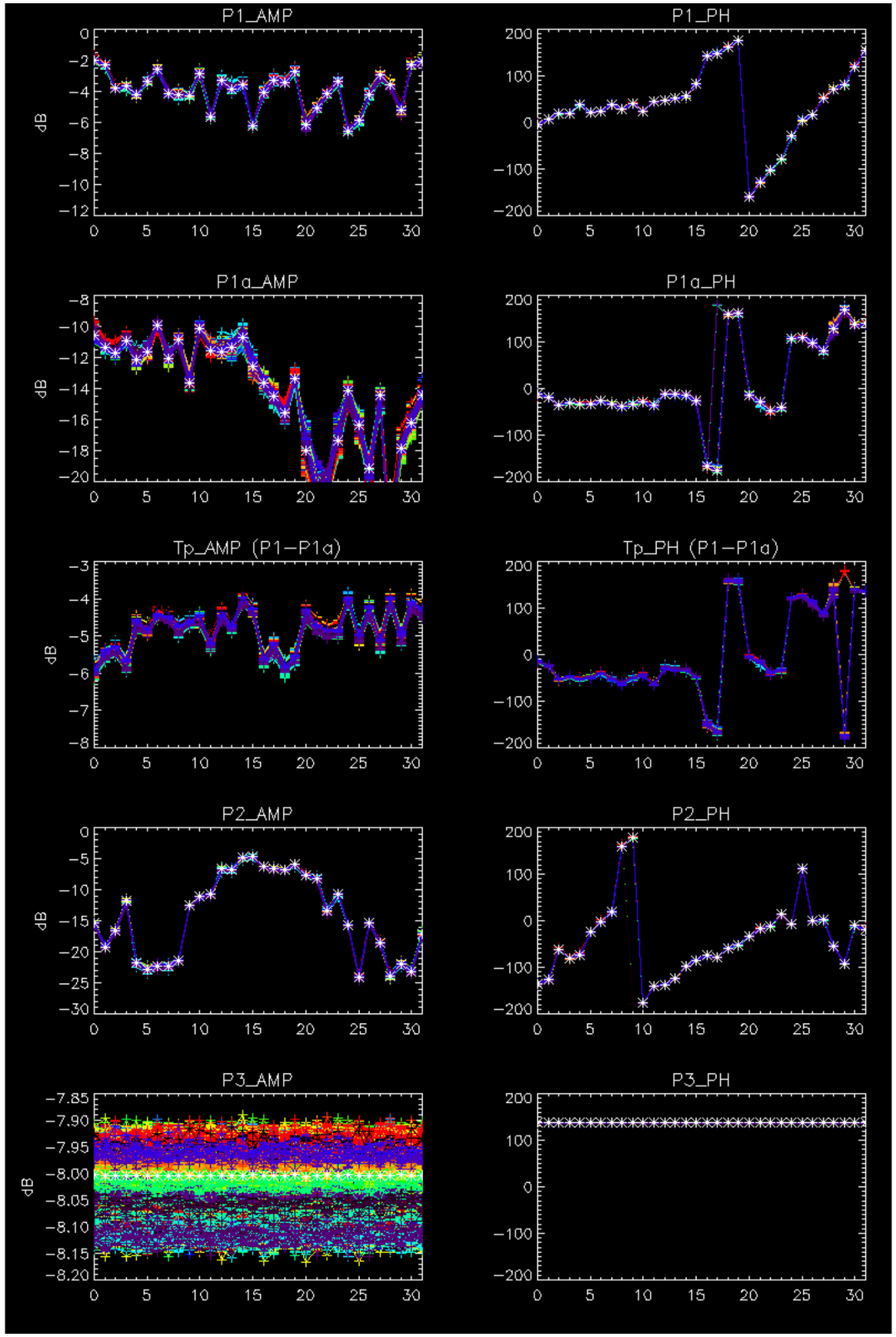

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
19−Jun
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
19−Jun
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
19−Jun
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
19−Jun
rows: _ 3 _ 7 _ 11 _ 15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

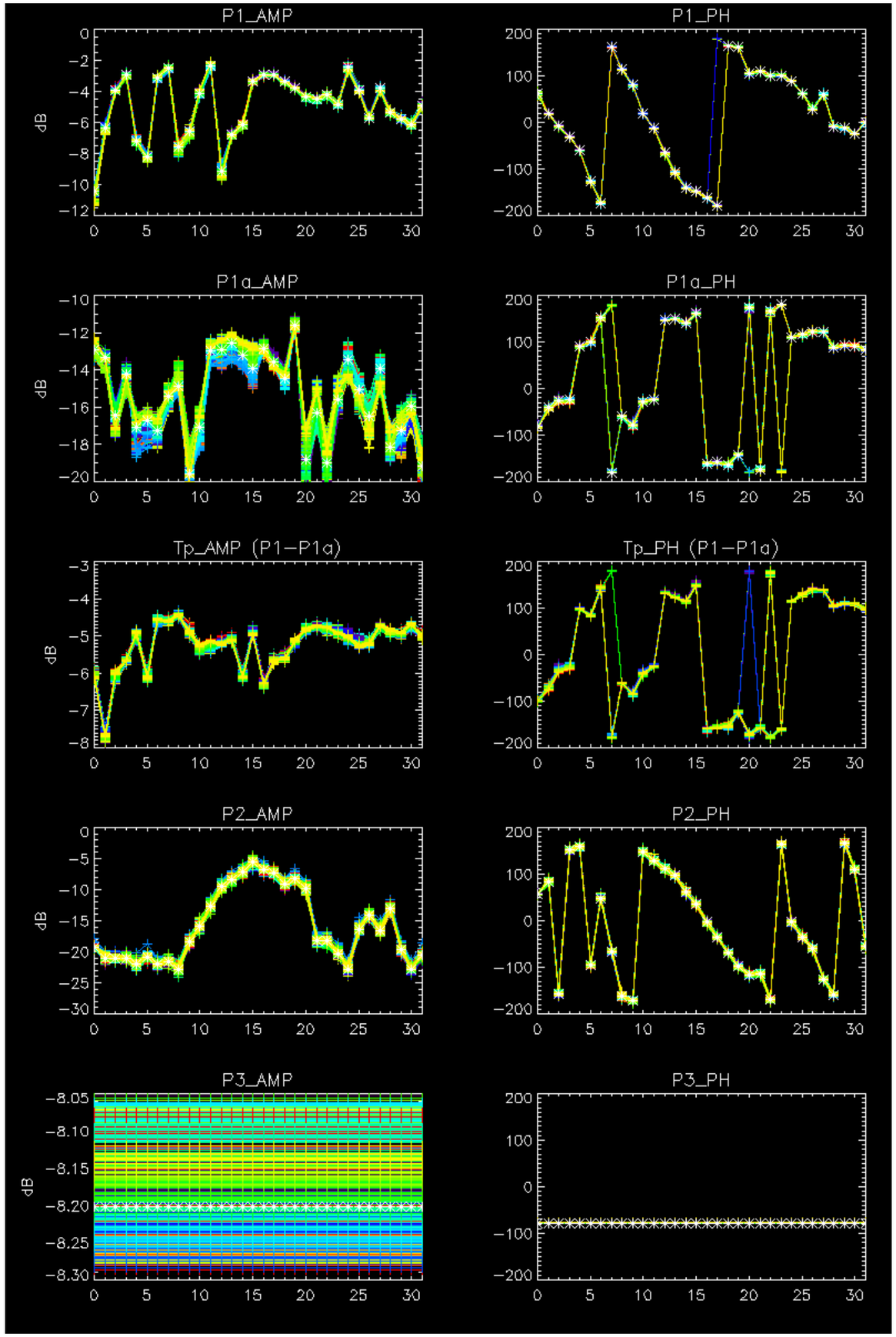

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
16−May
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun
Average P1a [dB]
−8
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

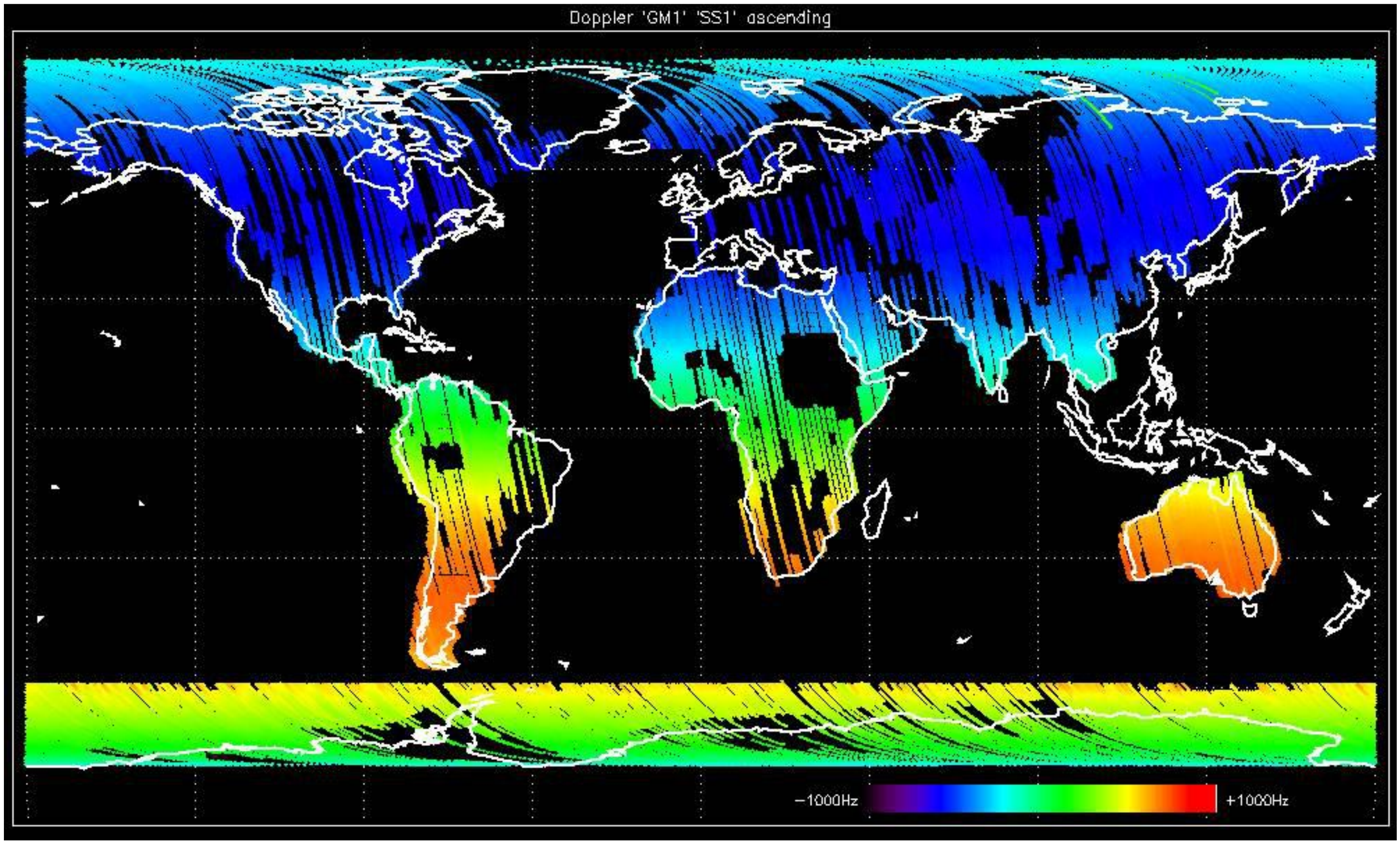
No anomalies observed.

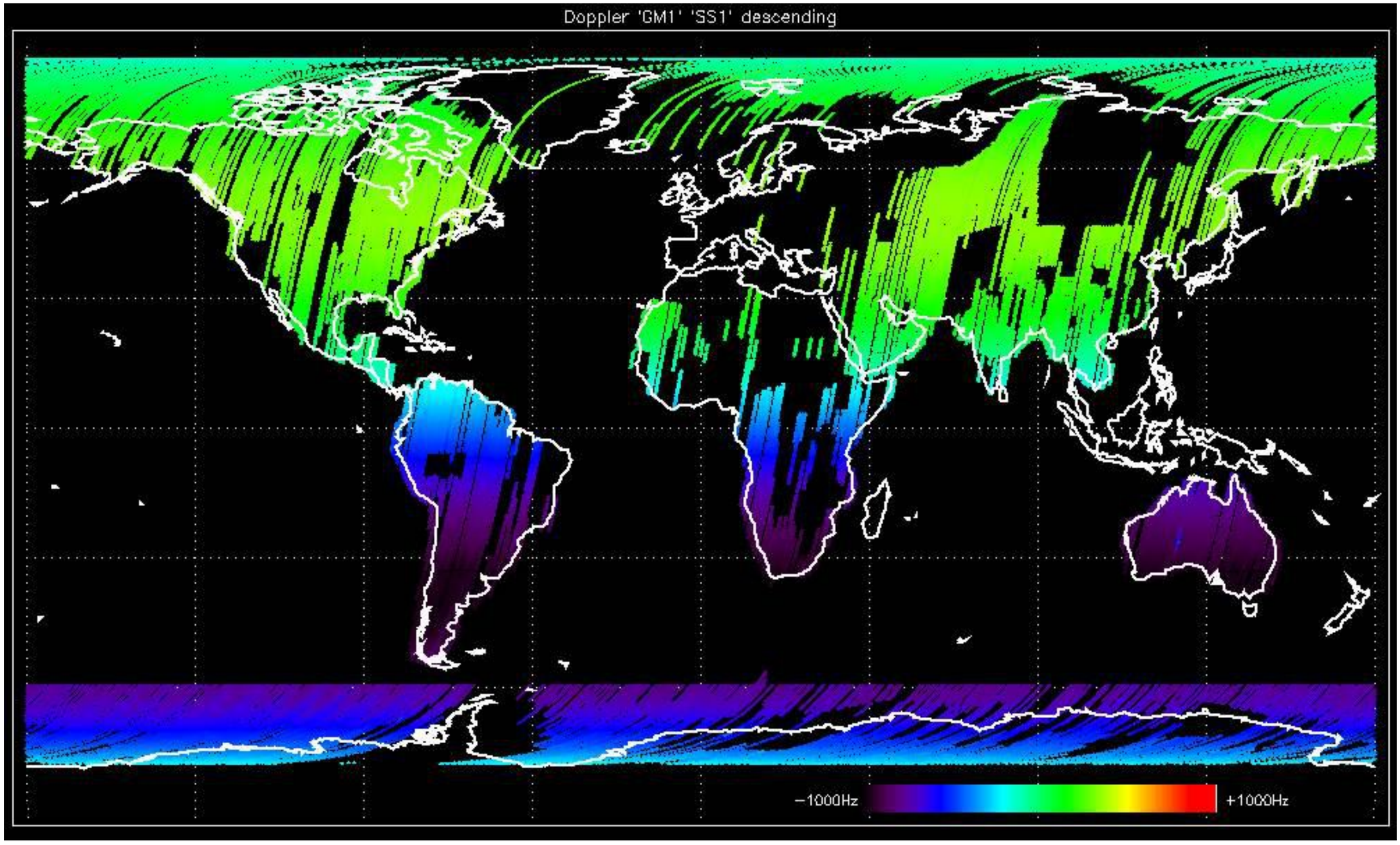

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

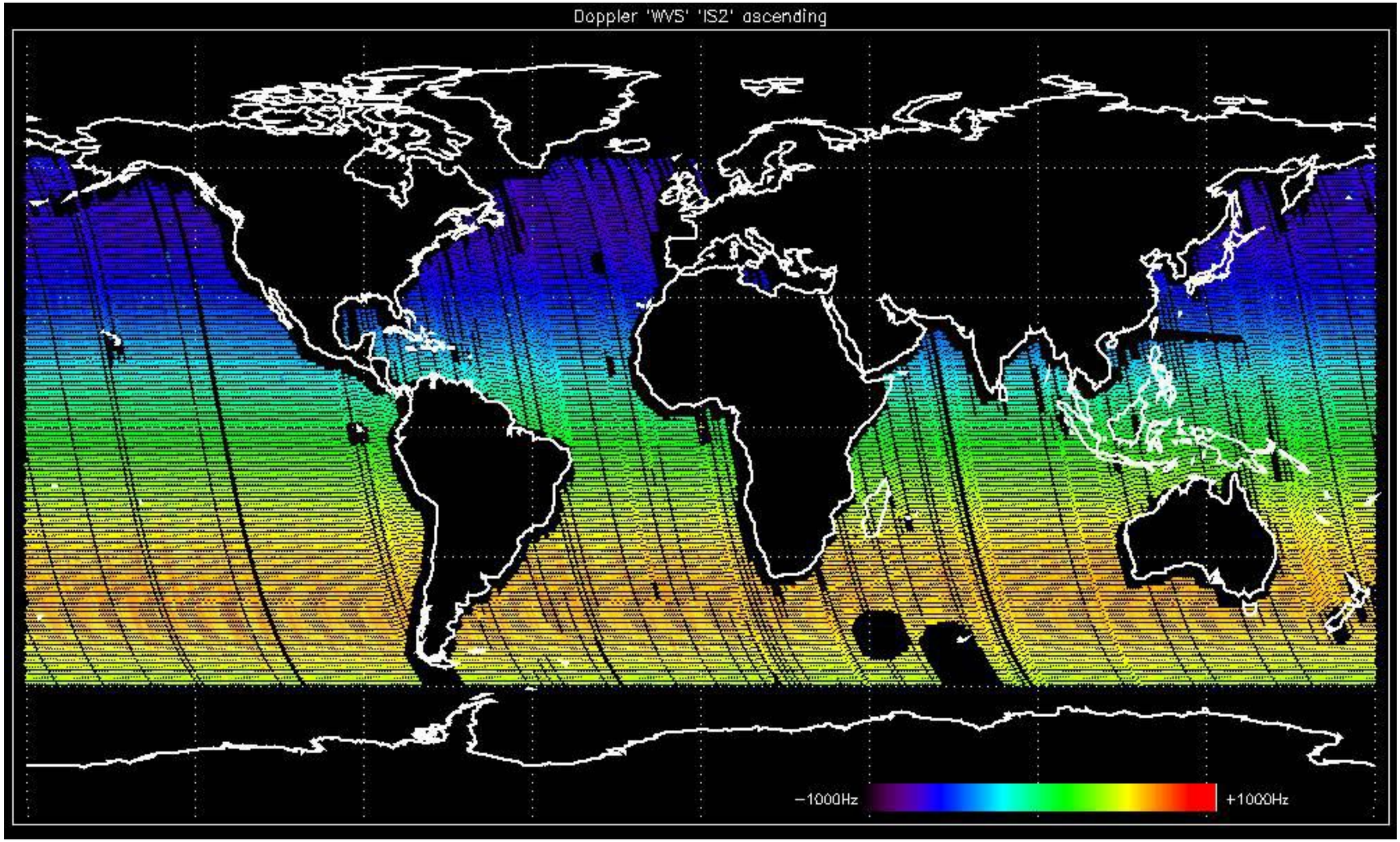

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

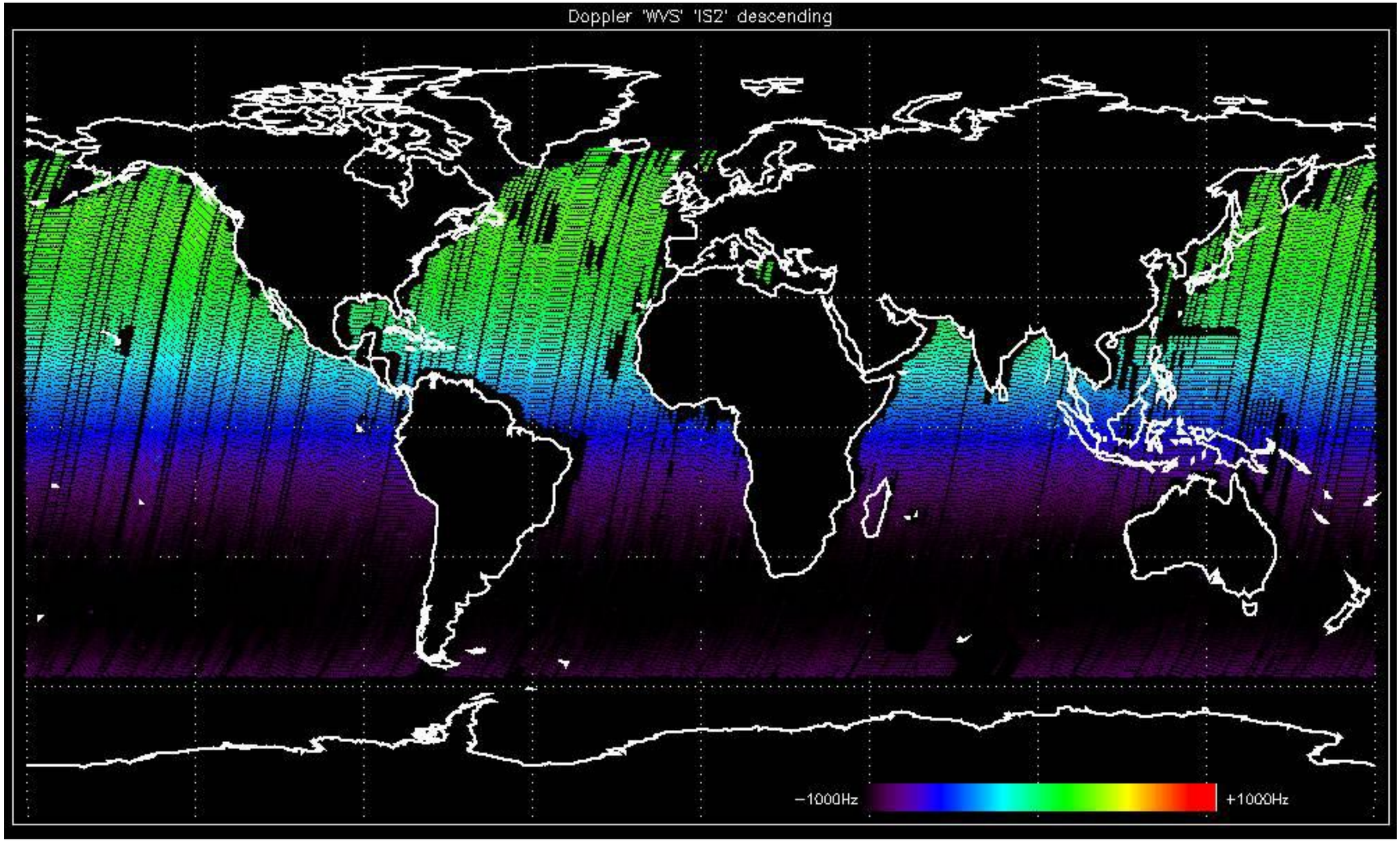
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

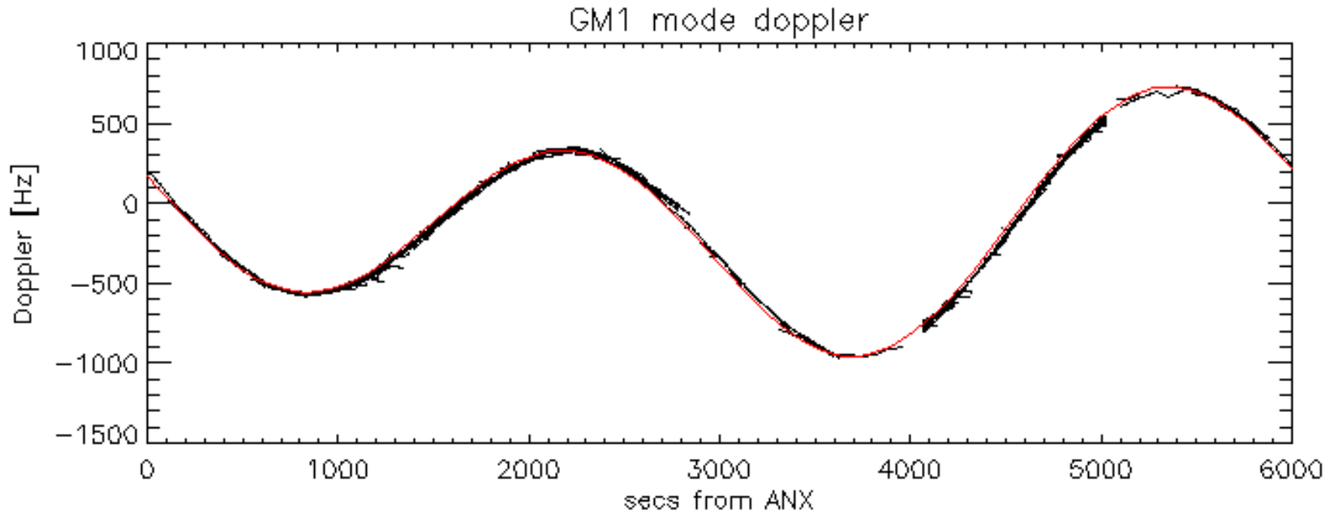
Preliminary report.The data is not yet controled

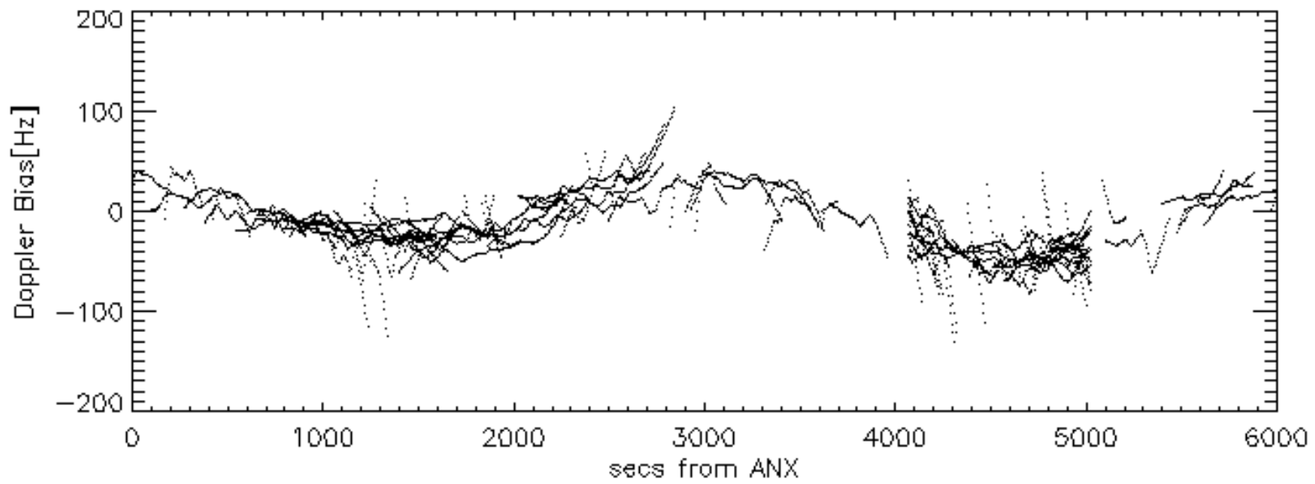

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

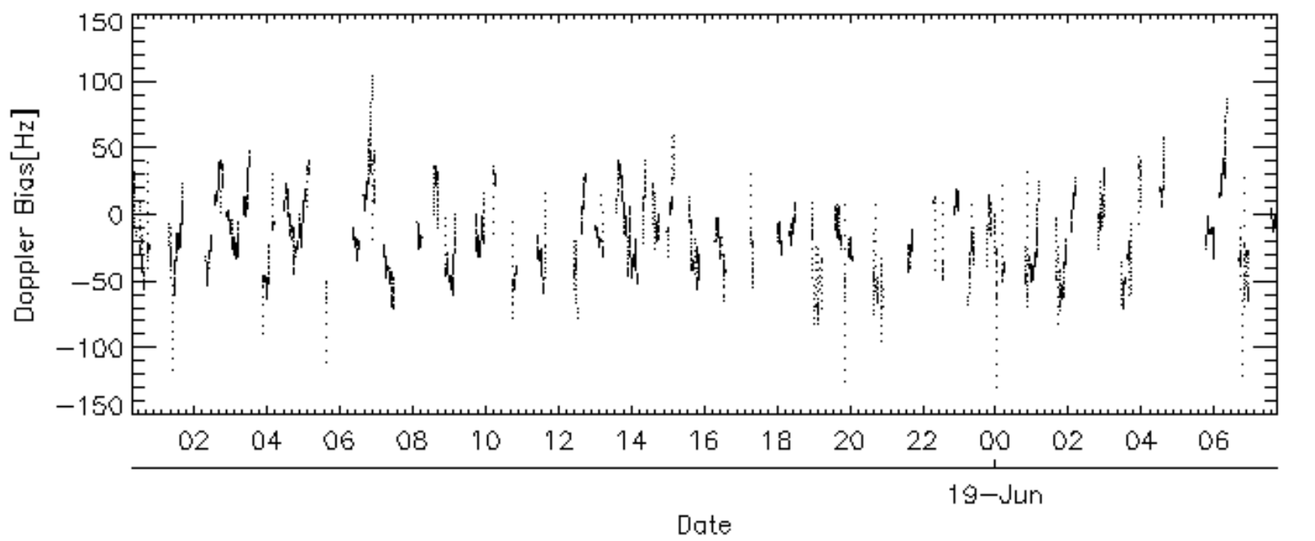

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

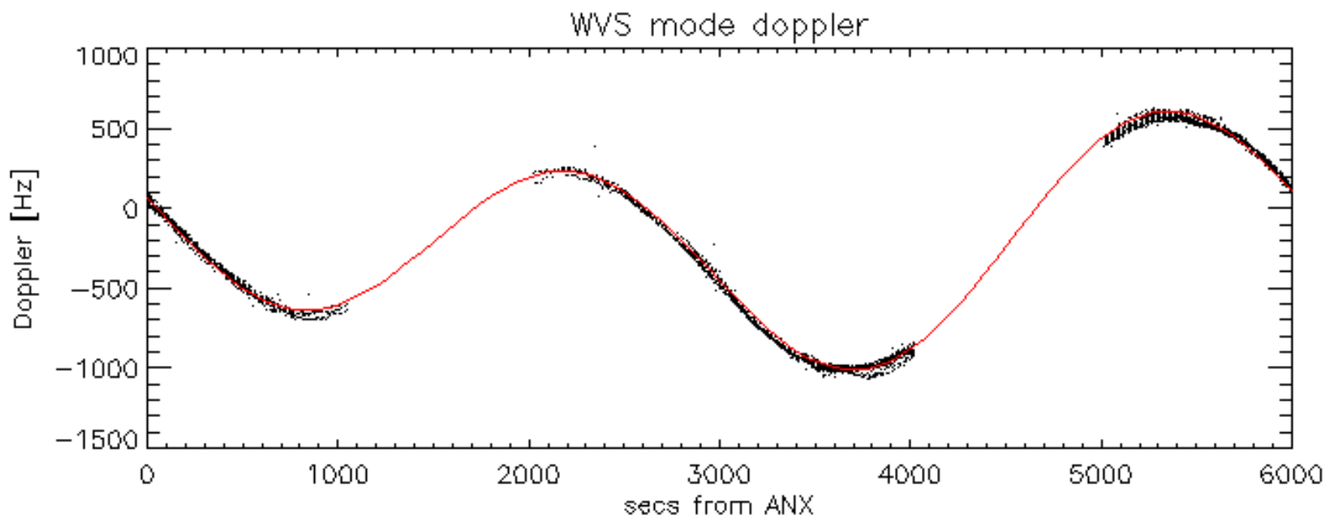

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

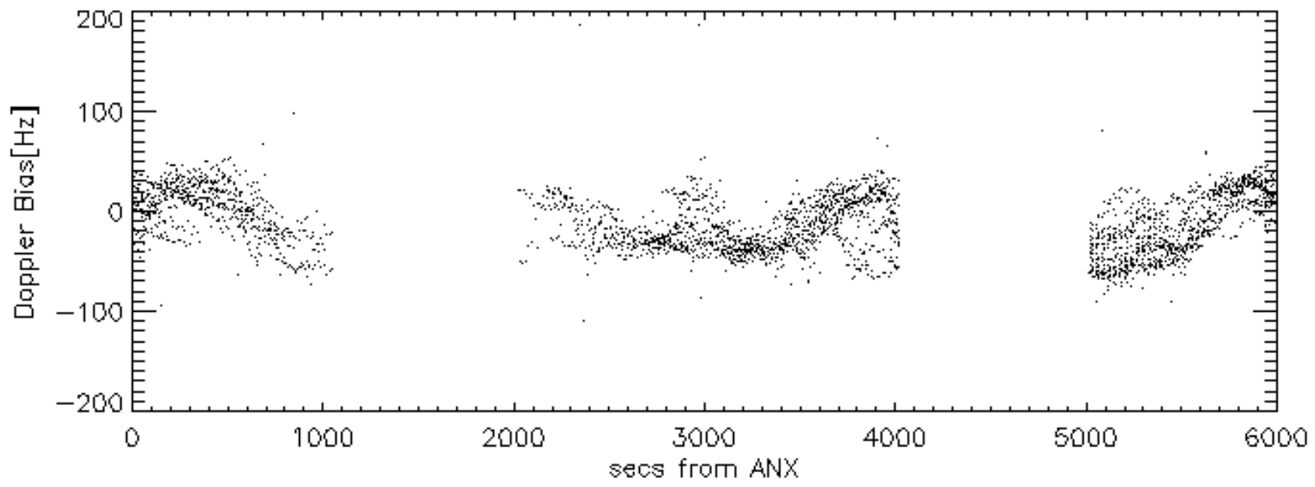

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

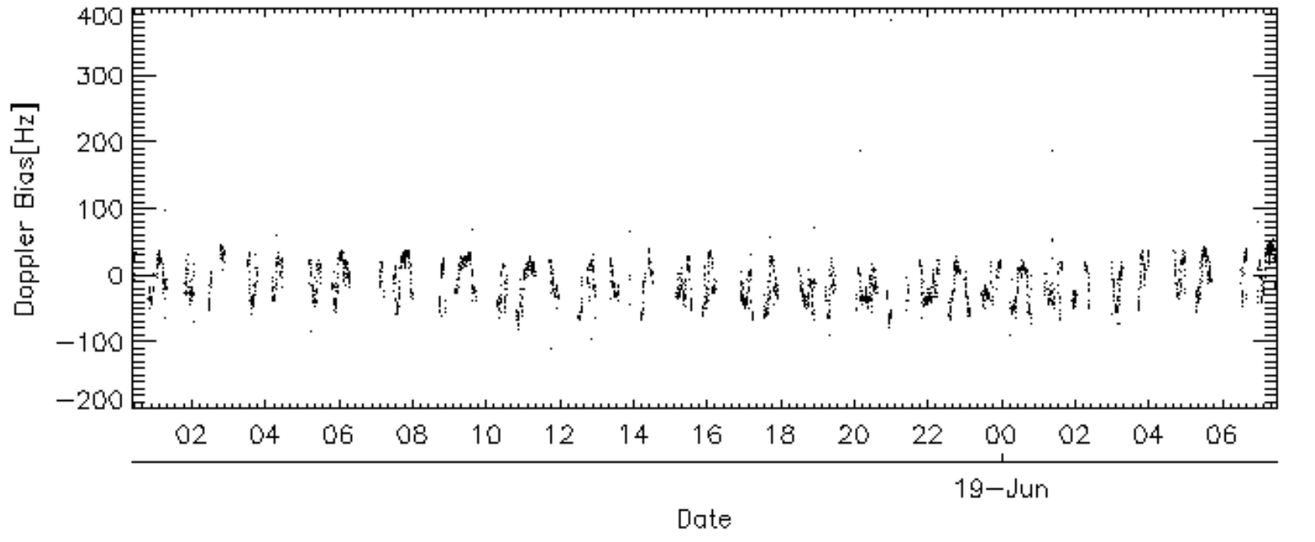

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

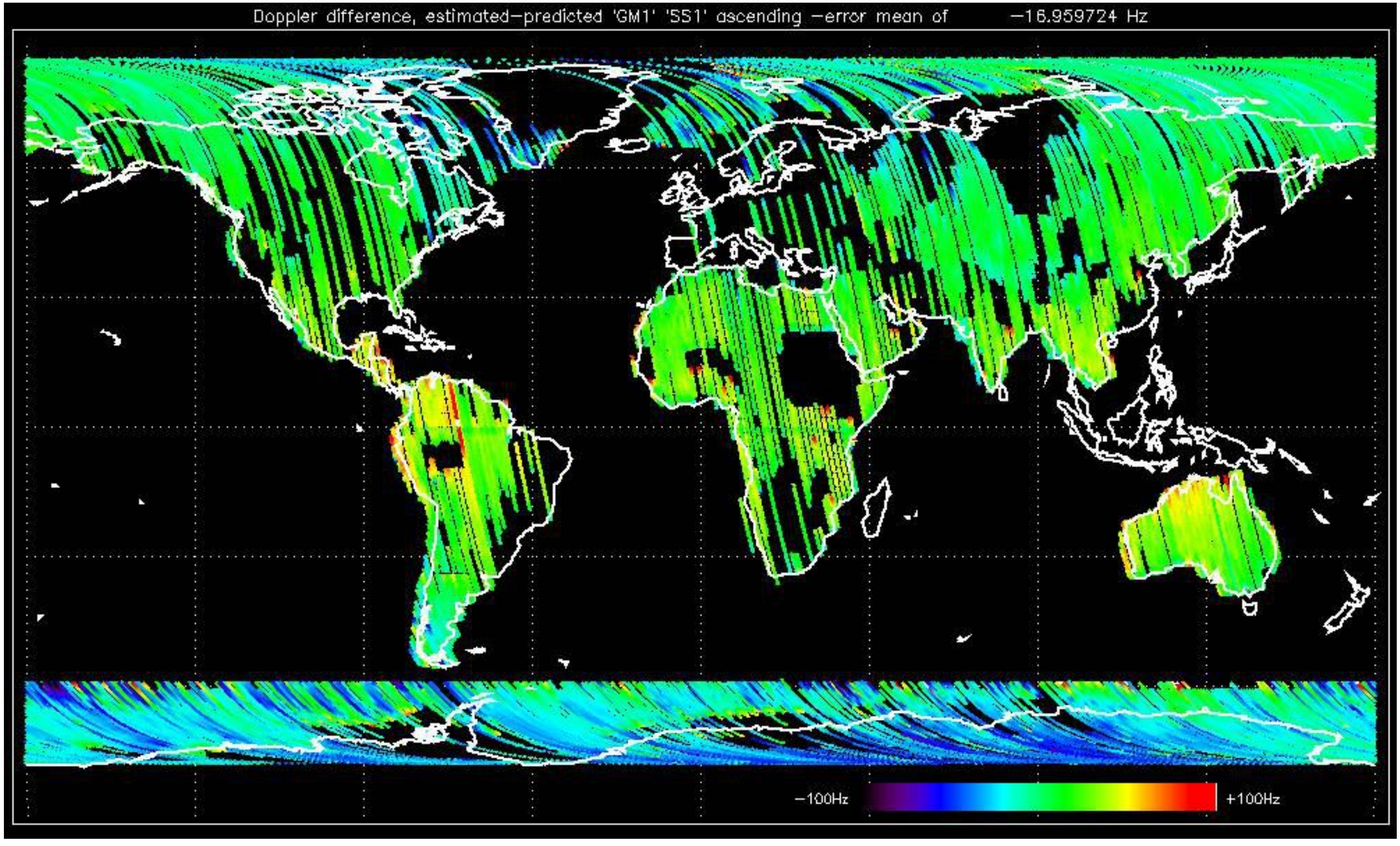

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

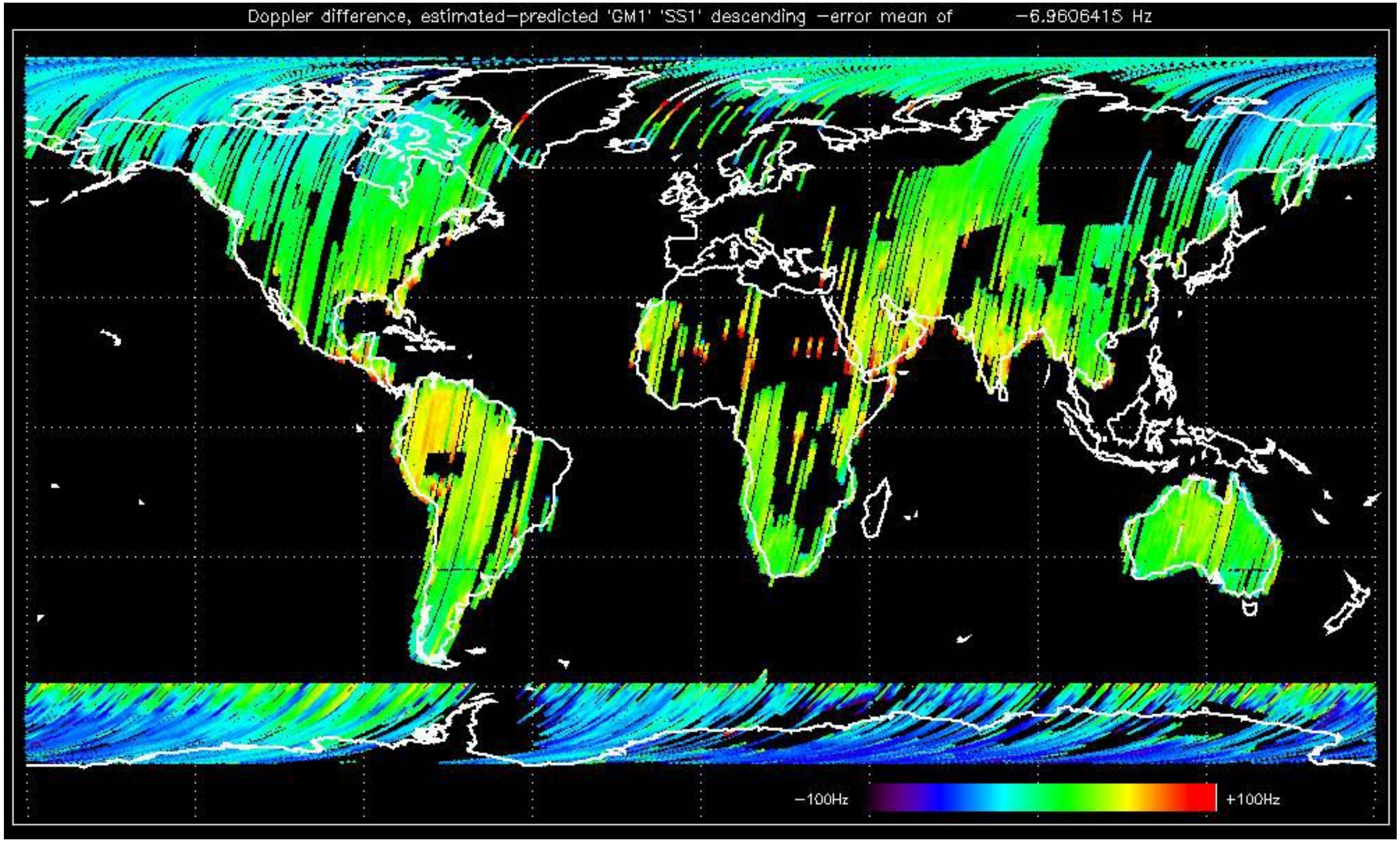

Doppler Bias[Hz]
150
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
19−Jun
Date

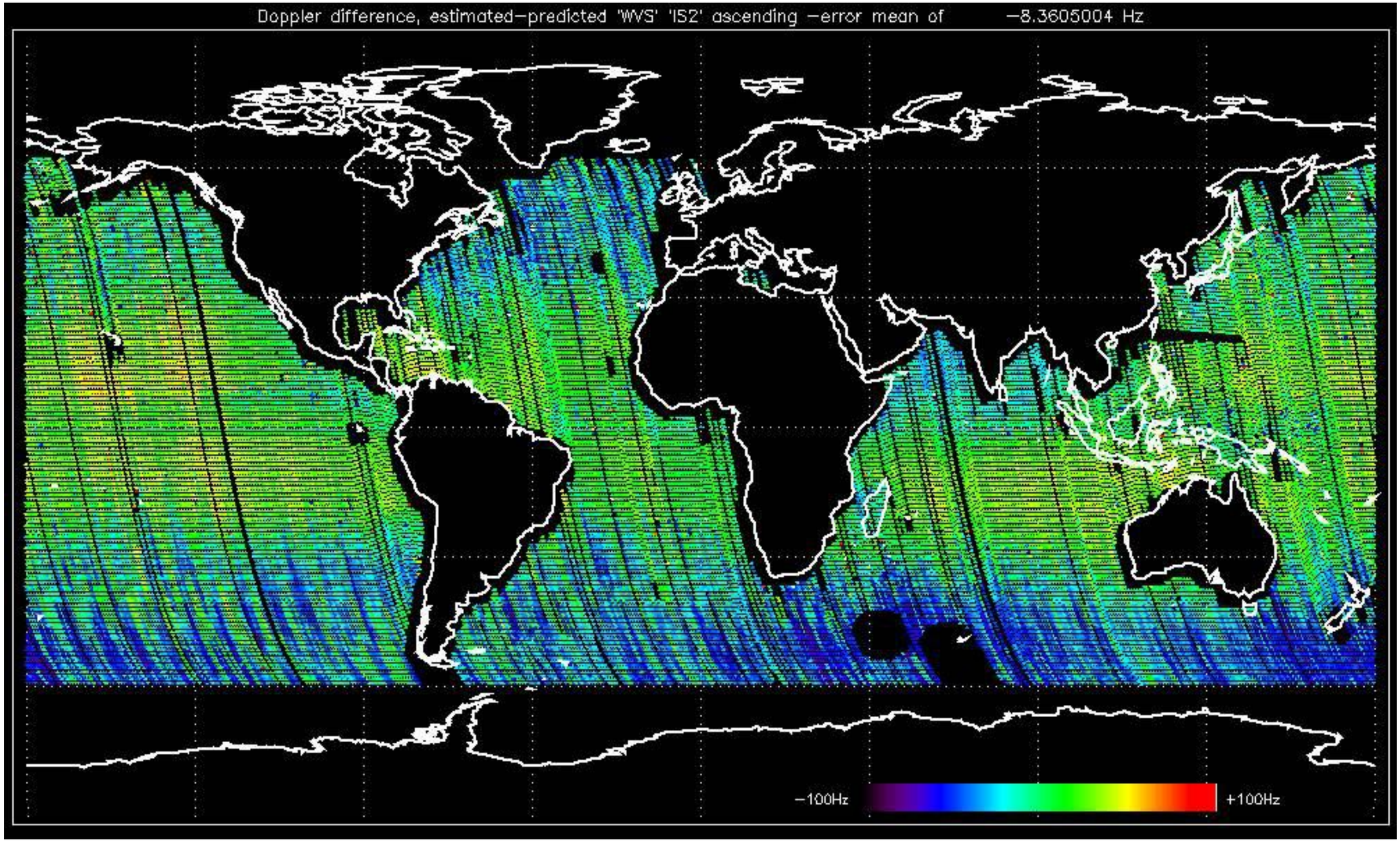

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

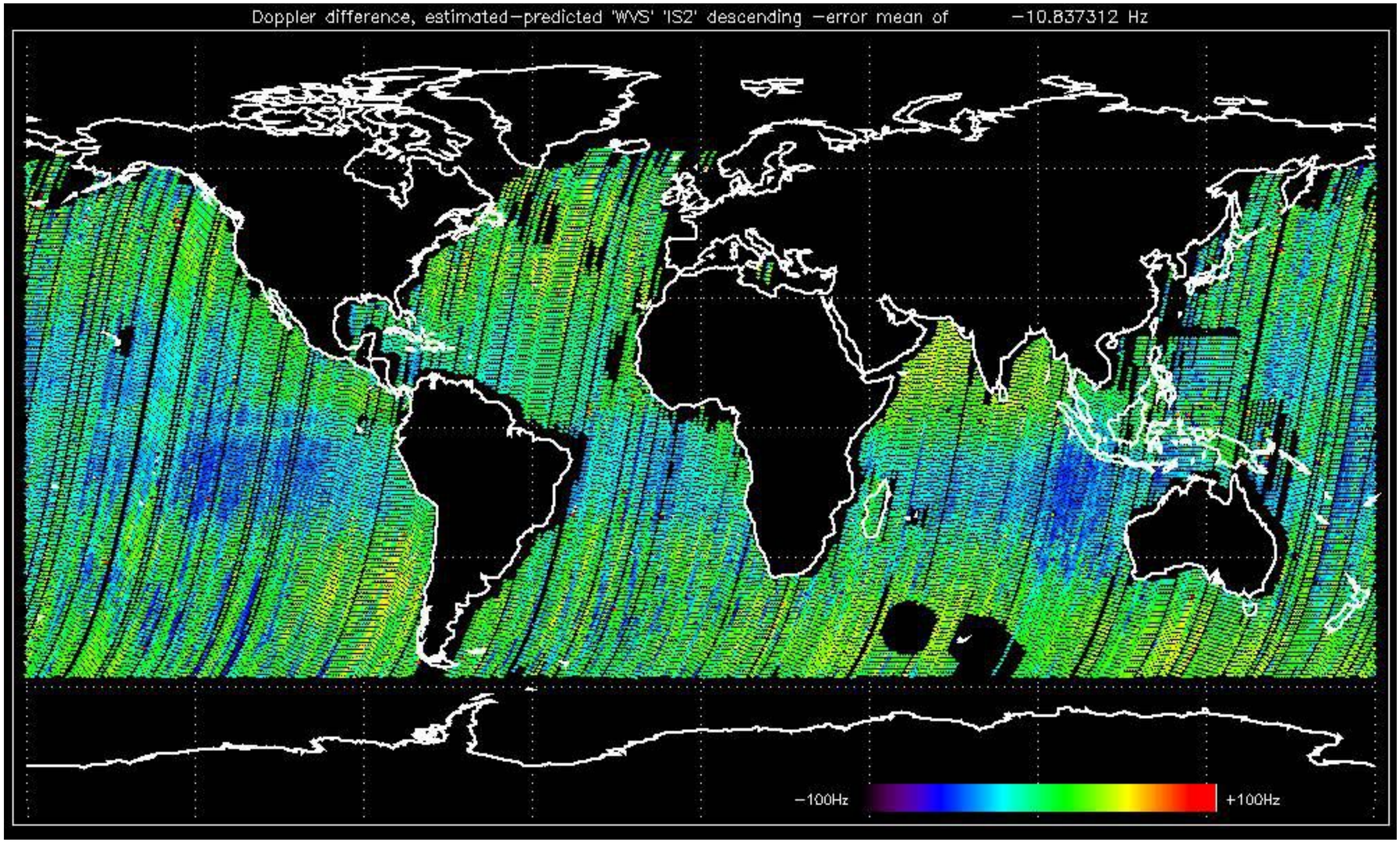

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


Doppler Bias[Hz]
400
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
19−Jun
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −16.959724 Hz
−100Hz
+100Hz

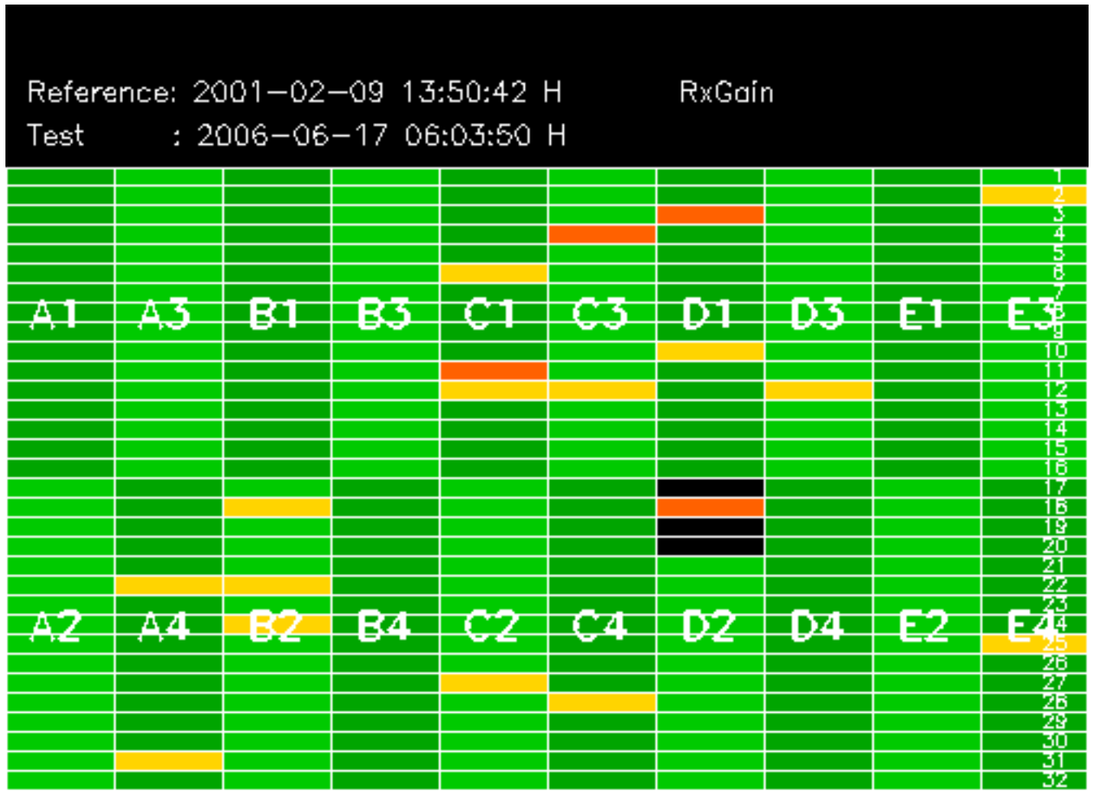

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −6.9606415 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −8.3605004 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.837312 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-17 06:03:50 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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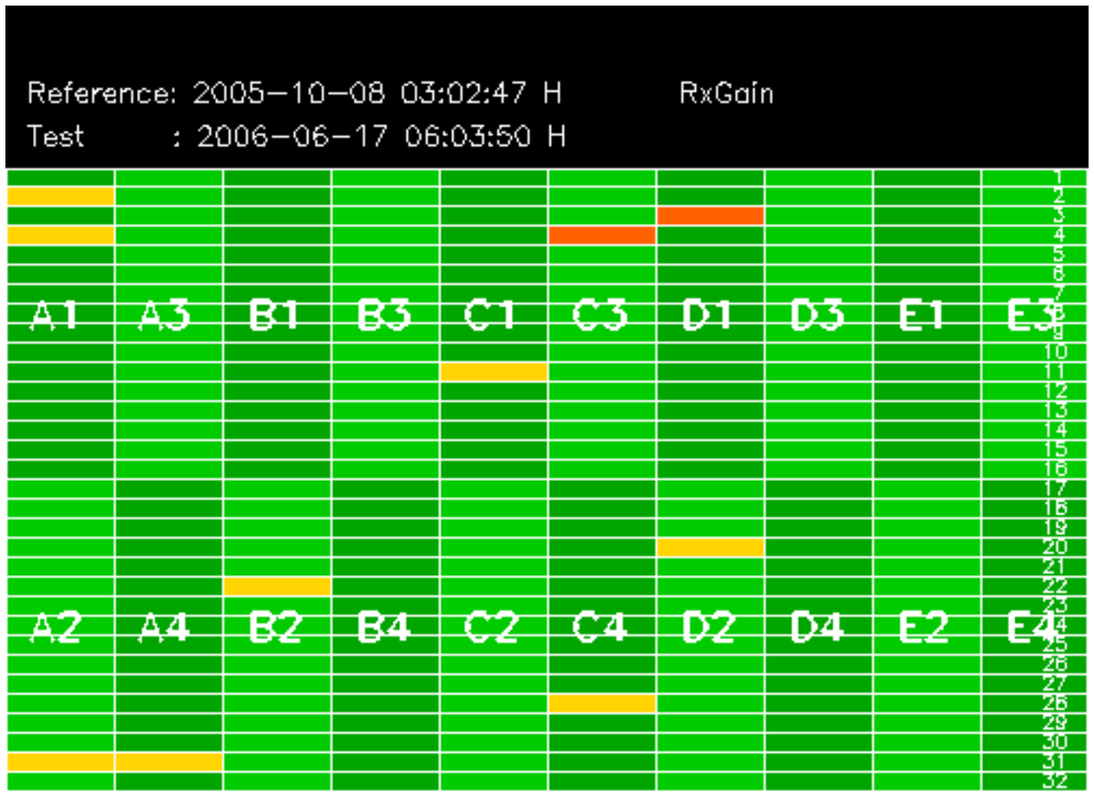
Reference: 2005-10-08 03:02:47 H
Test : 2006-06-17 06:03:50 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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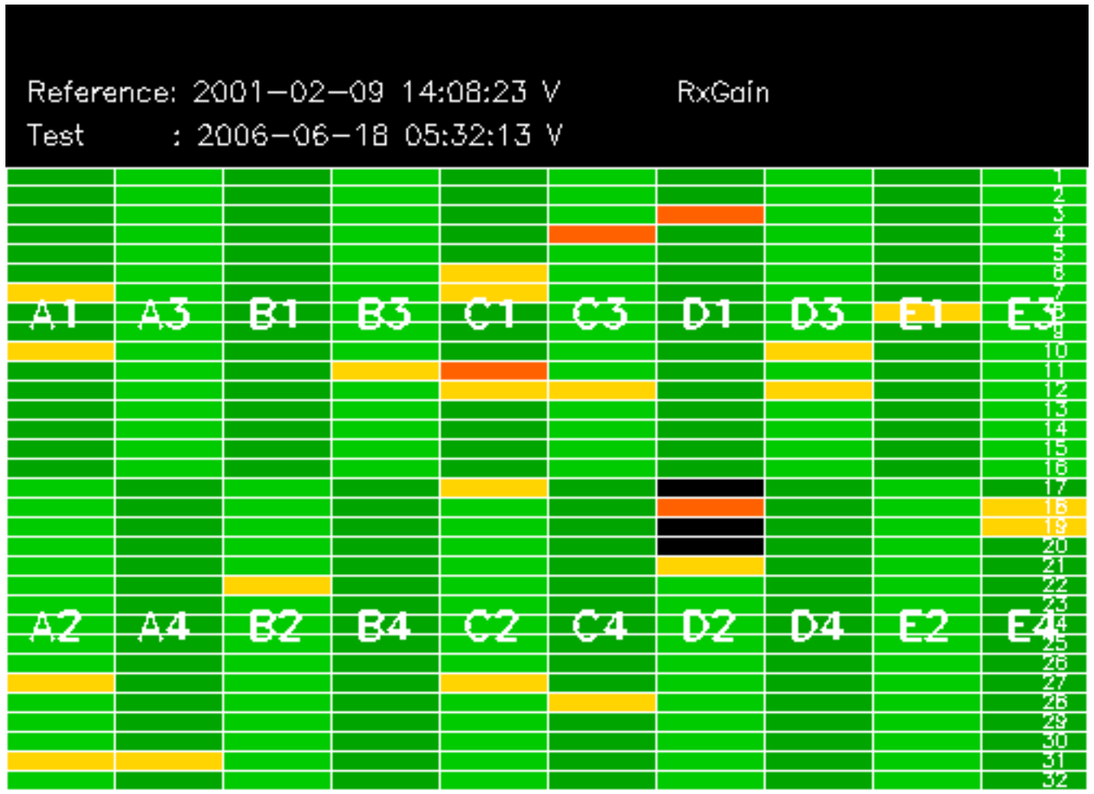
Reference: 2001-02-09 14:08:23 V
RxGain
Test : 2006-06-18 05:32:13 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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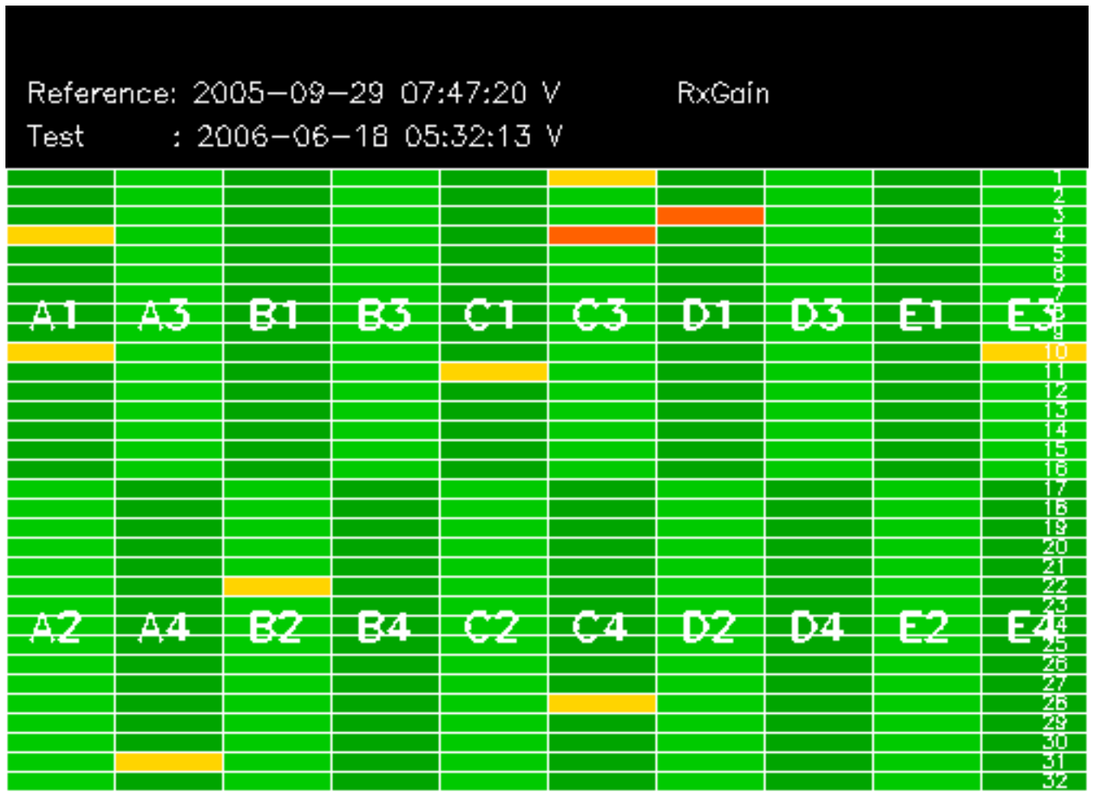
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-18 05:32:13 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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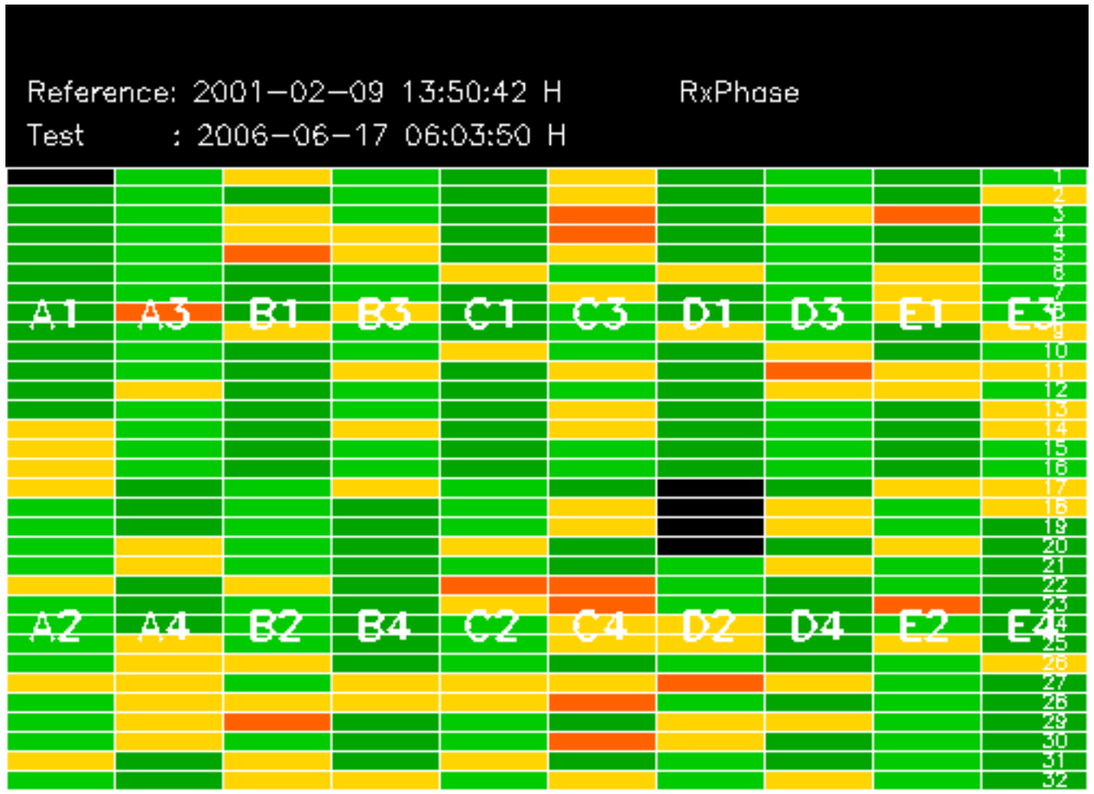
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-06-17 06:03:50 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
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C4
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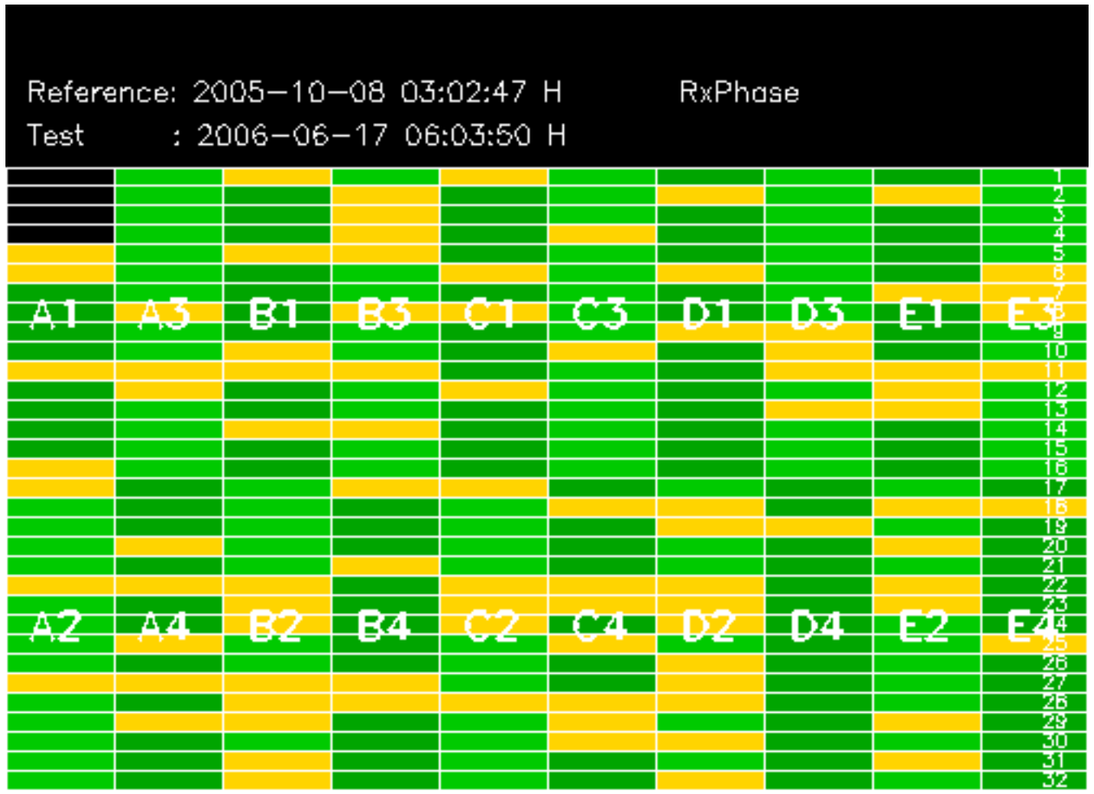
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-06-17 06:03:50 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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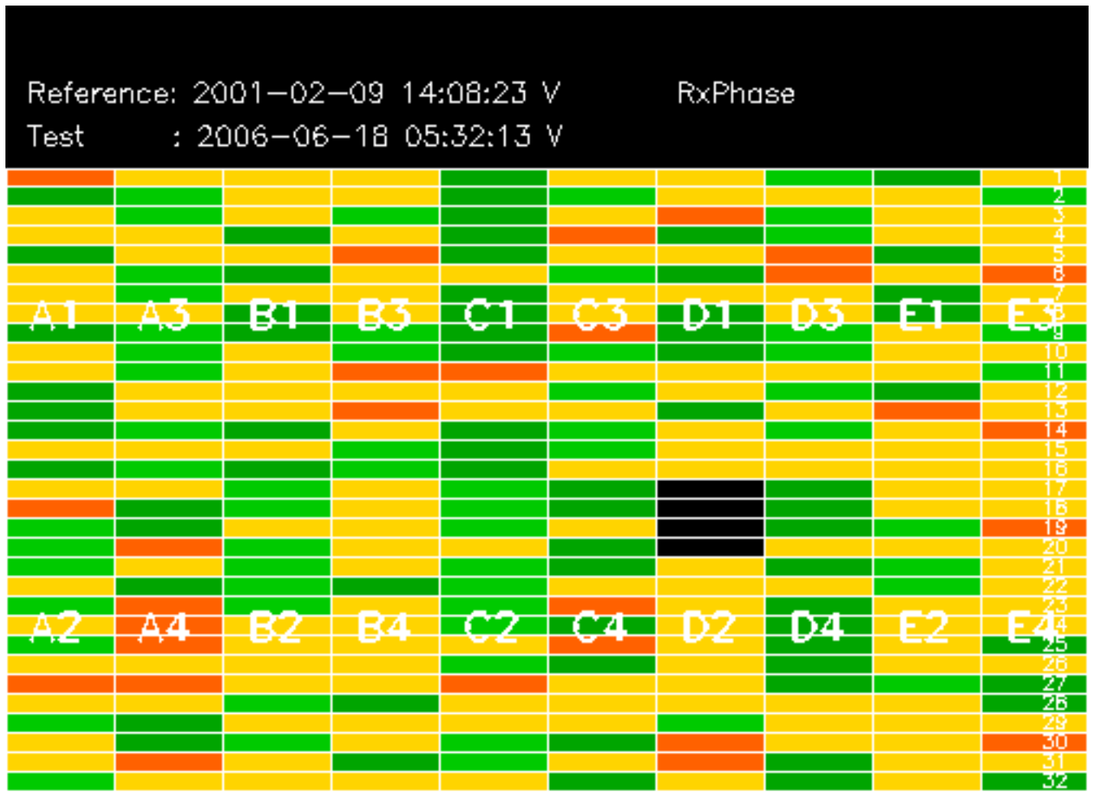
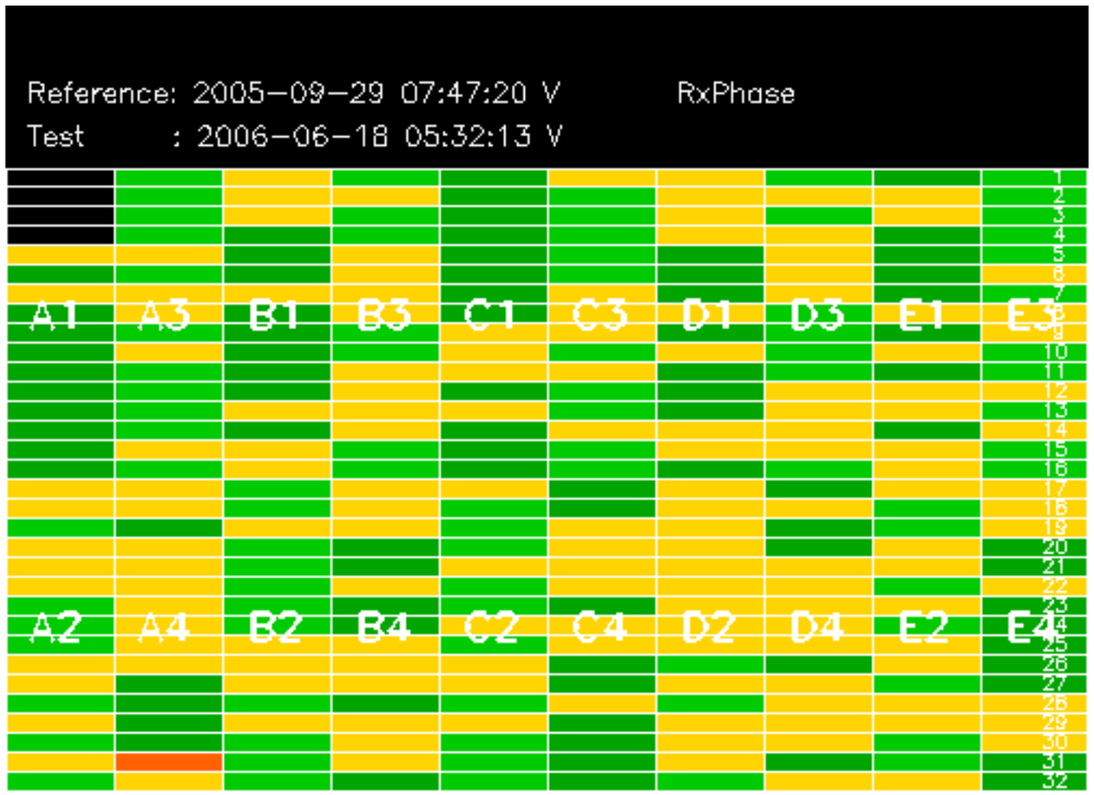
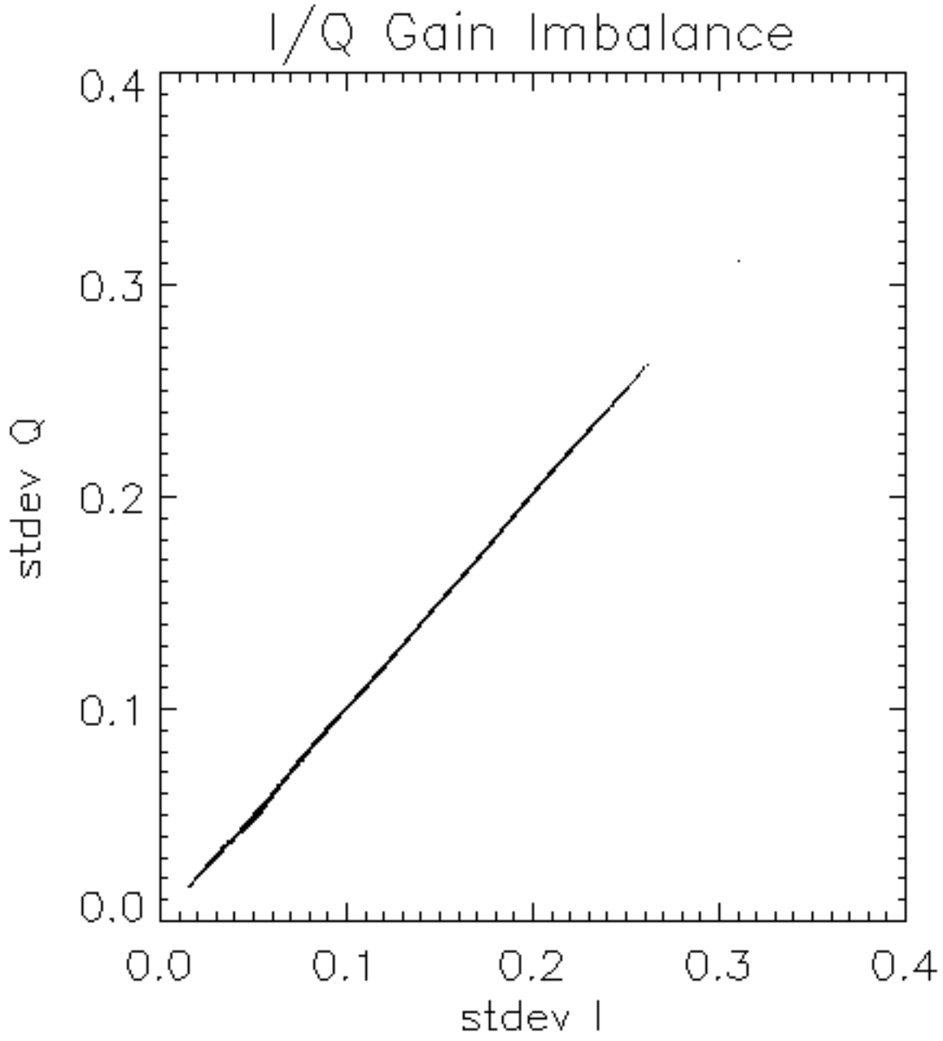
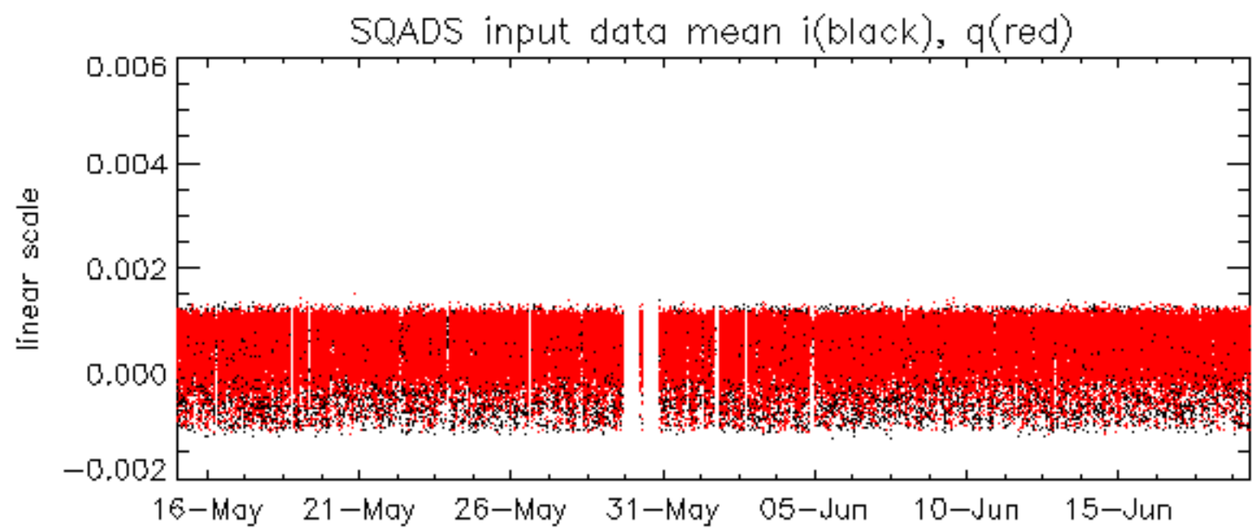
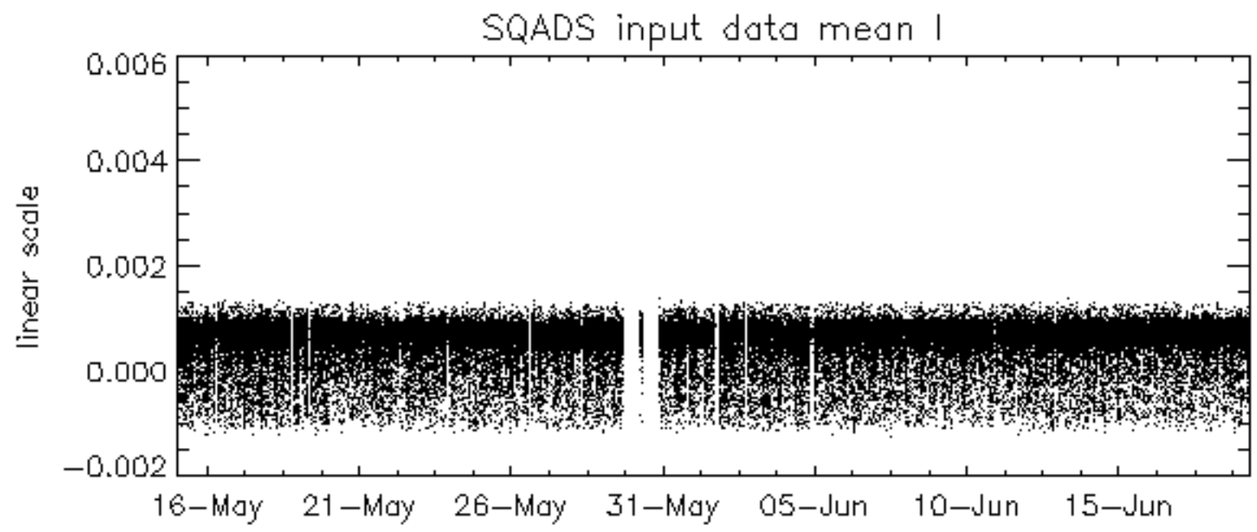
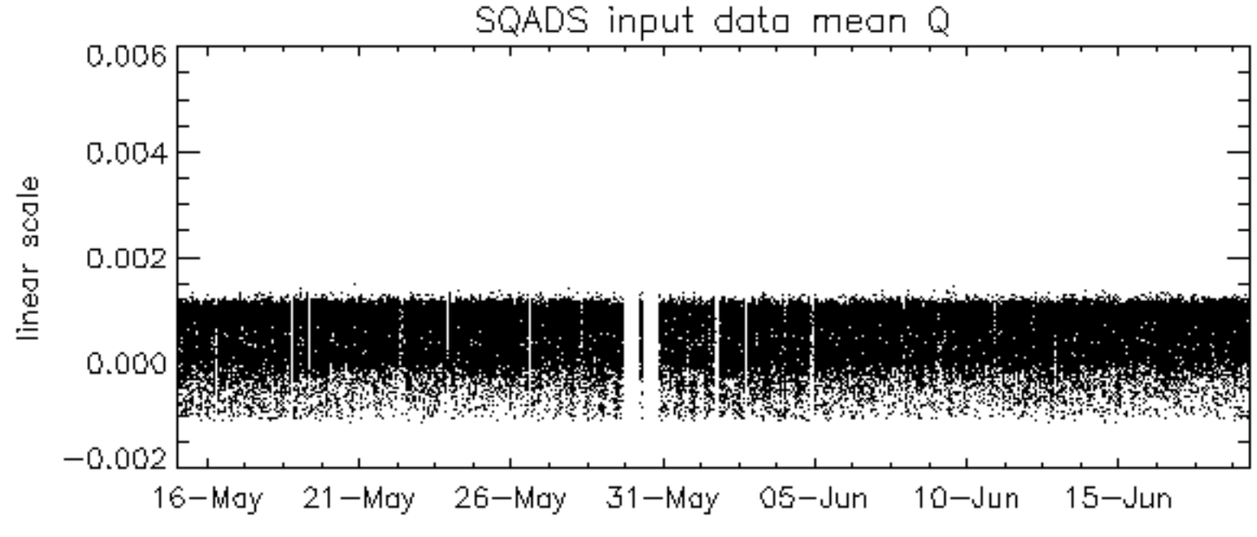

Reference: 2001-02-09 14:08:23 V
Test : 2006-06-18 05:32:13 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

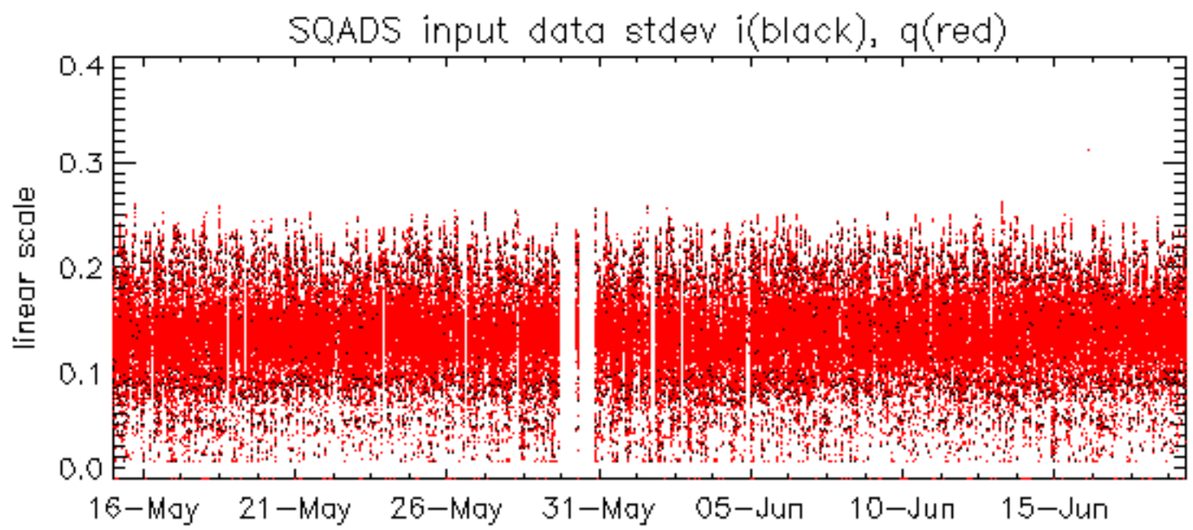

Reference: 2005-09-29 07:47:20 V
RxPhase
Test : 2006-06-18 05:32:13 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

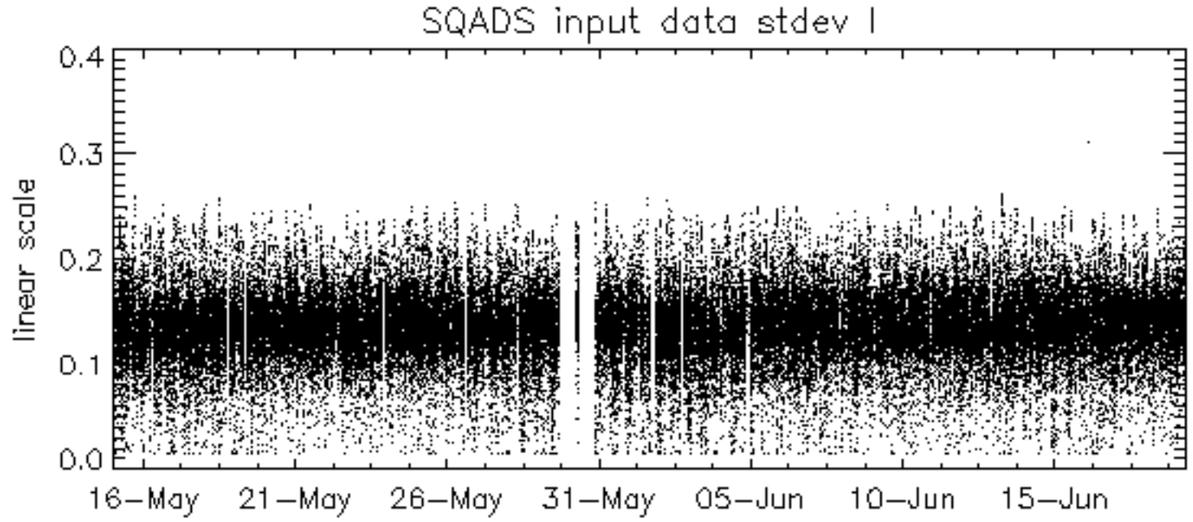

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

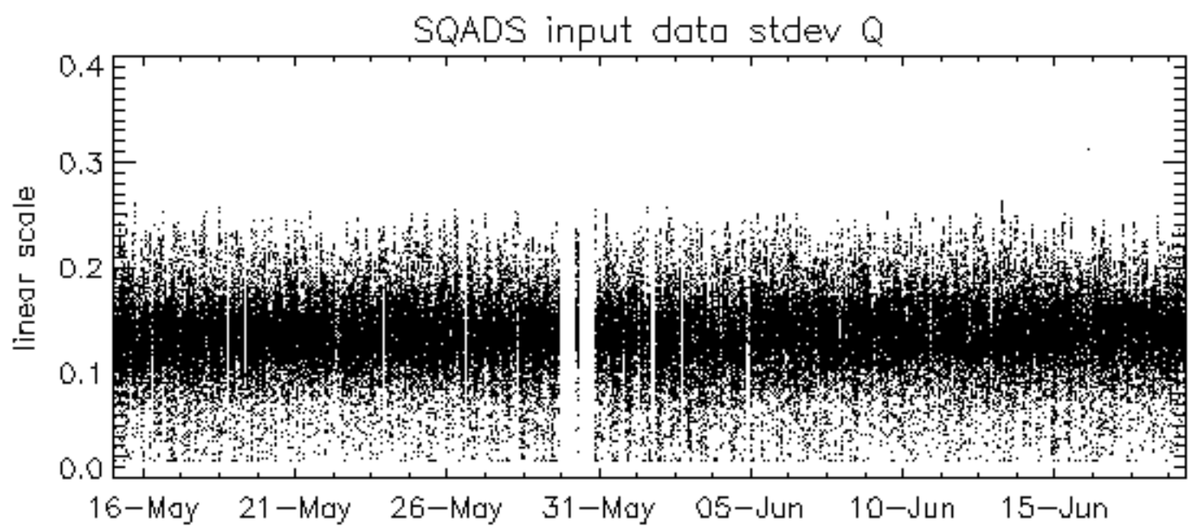

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
16−May
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun

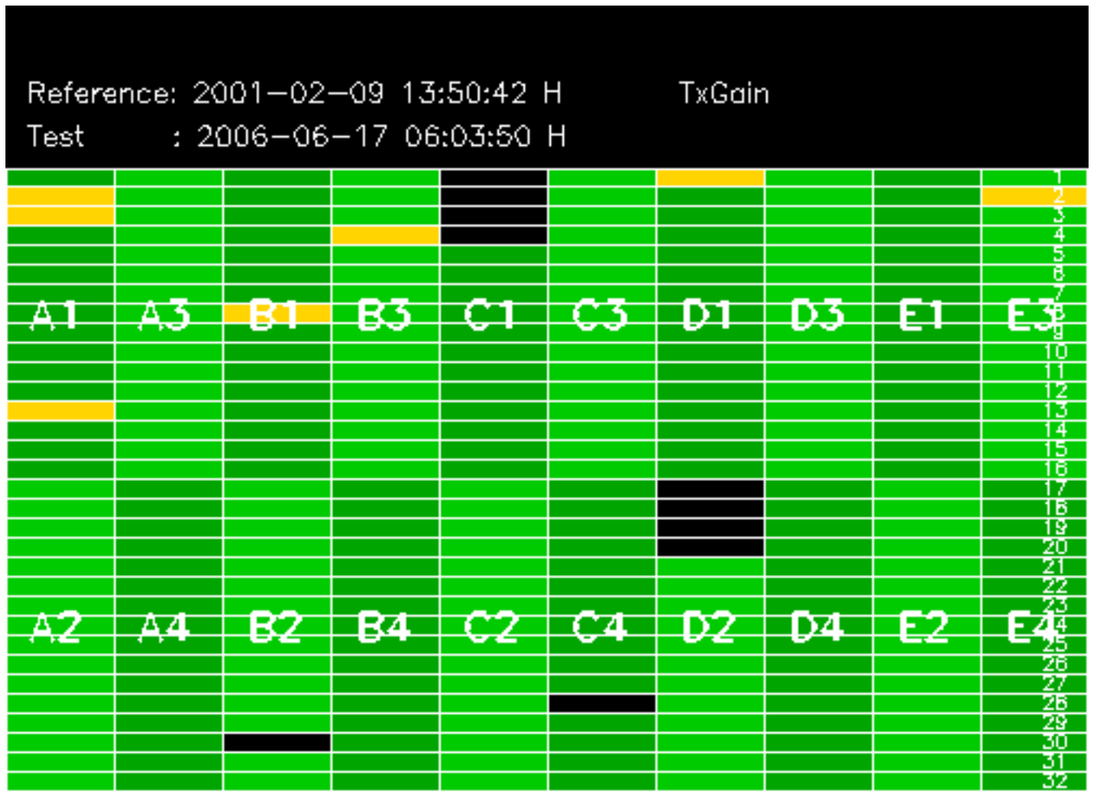

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
16−May
21−May
26−May
31−May
05−Jun
10−Jun
15−Jun


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2006-06-17 06:03:50 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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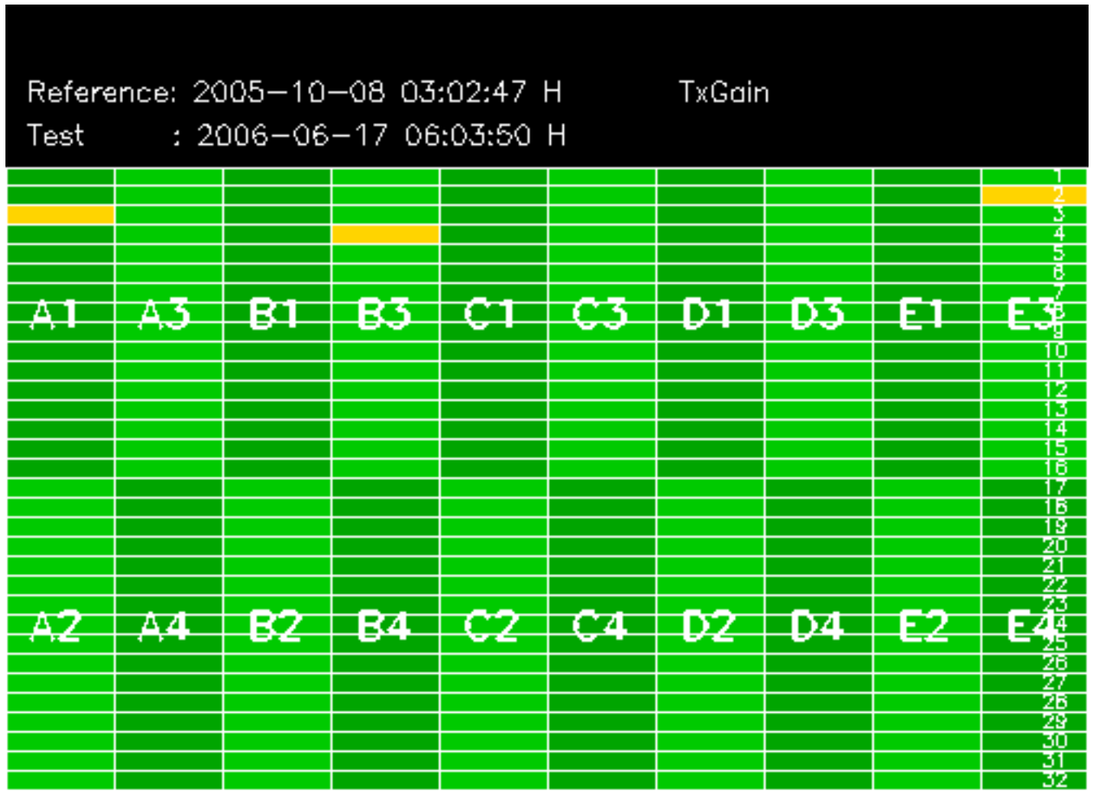
Reference: 2005-10-08 03:02:47 H
Test : 2006-06-17 06:03:50 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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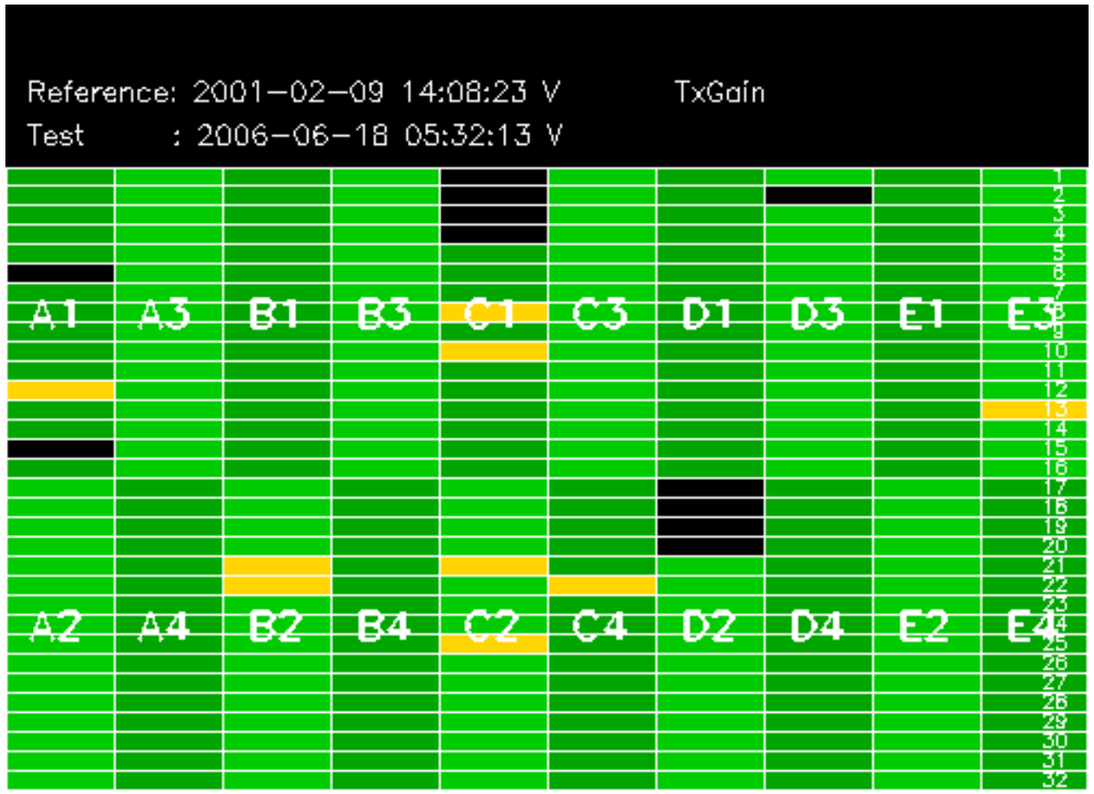
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-18 05:32:13 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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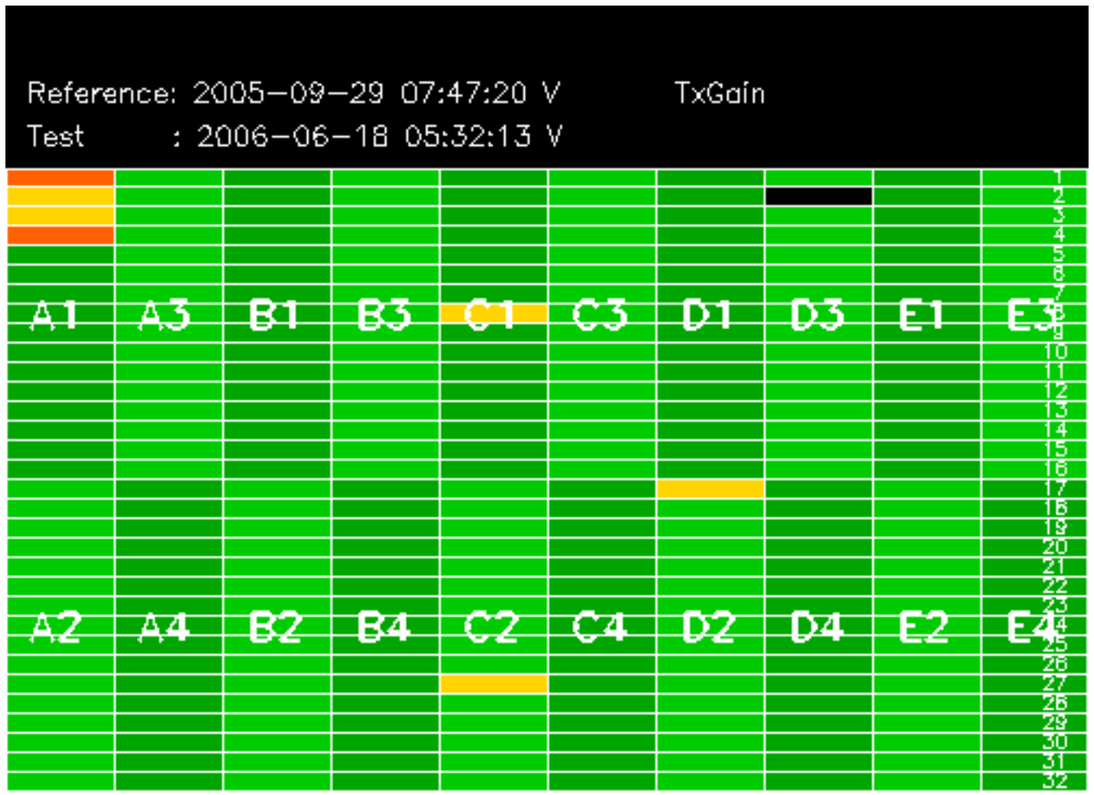
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-18 05:32:13 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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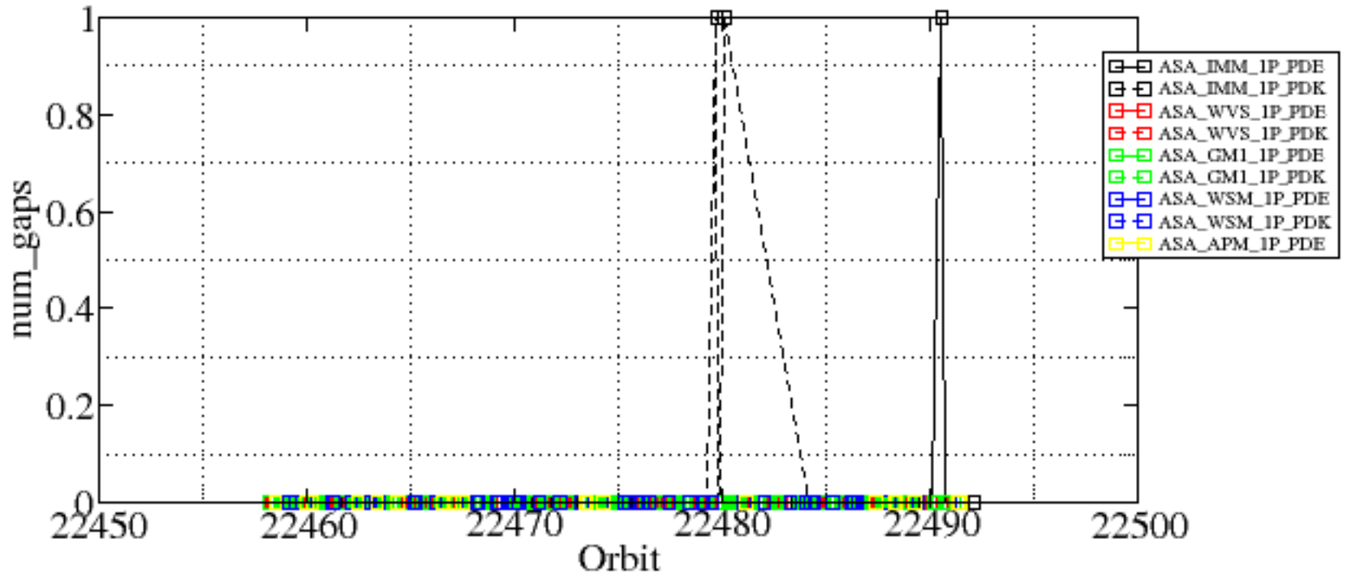
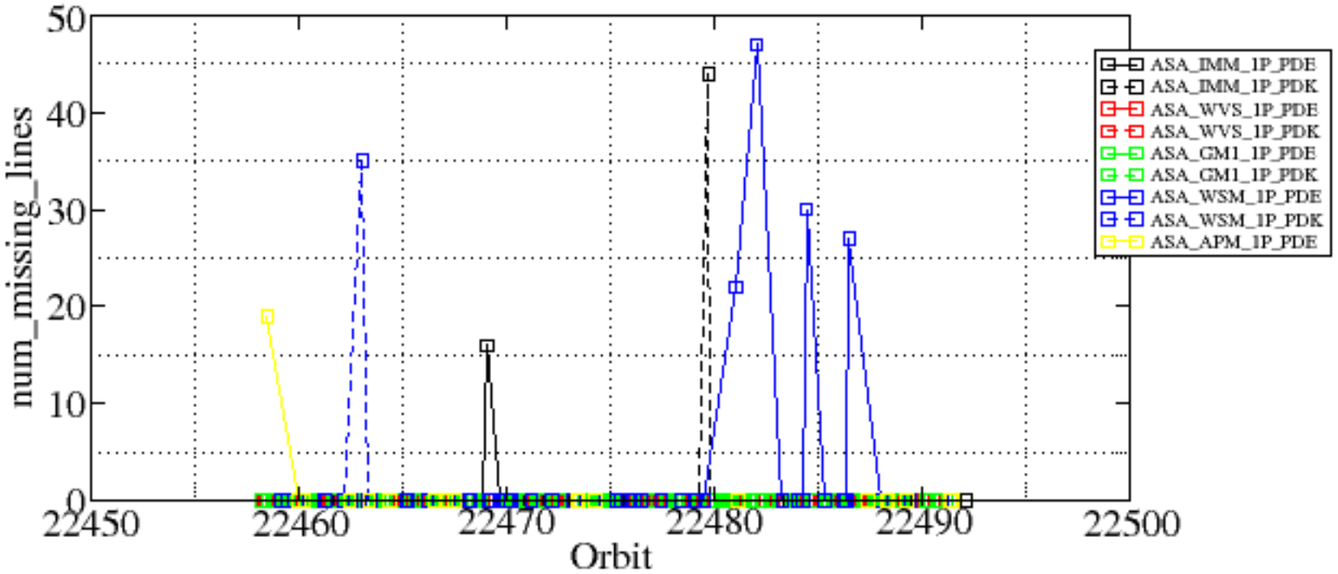
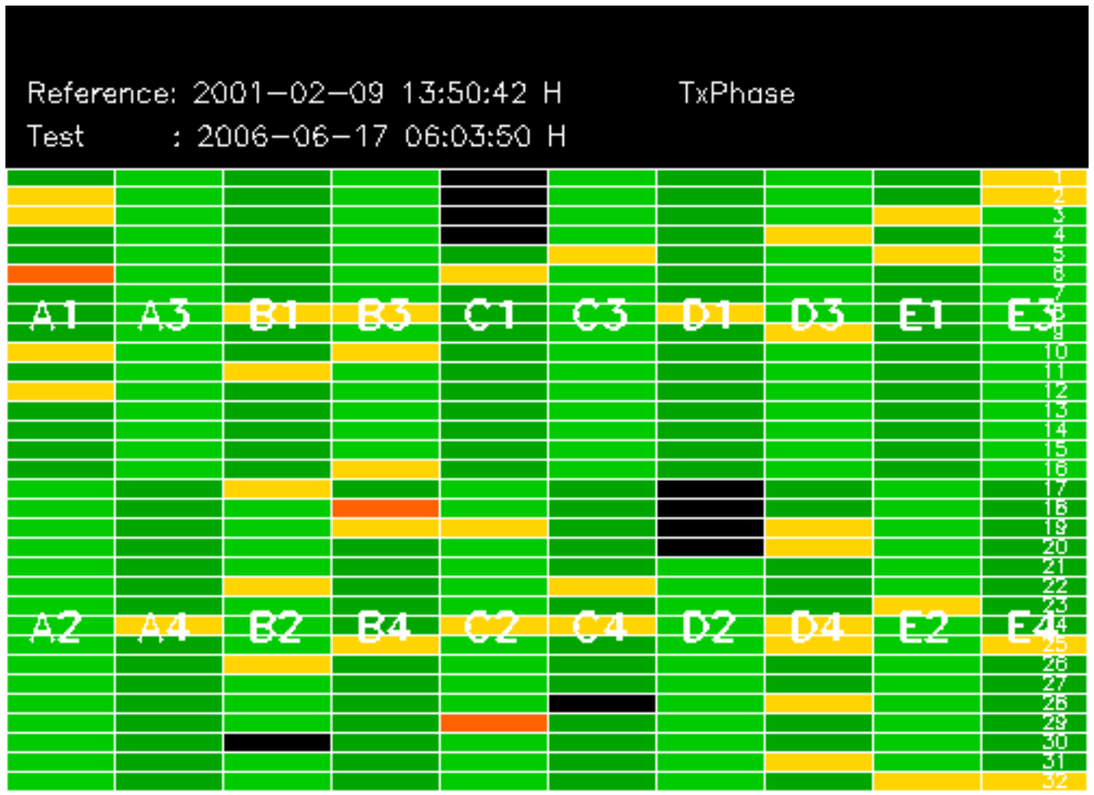
Summary of analysis for the last 3 days 2006061[789]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20060617_182649_000000352048_00371_22469_7779.N1	0	16
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_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_1PNPDK20060617_082213_000000862048_00365_22463_7763.N1	0	35
ASA_APM_1PNPDE20060617_004226_000000562048_00360_22458_3444.N1	0	19


num_gaps
Orbit
1
0.8
0.6
0.4
0.2
0
22450
22460
22470
22480
22490
22500
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
Orbit
0
10
20
30
40
50
22450
22460
22470
22480
22490
22500
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 : 2006-06-17 06:03:50 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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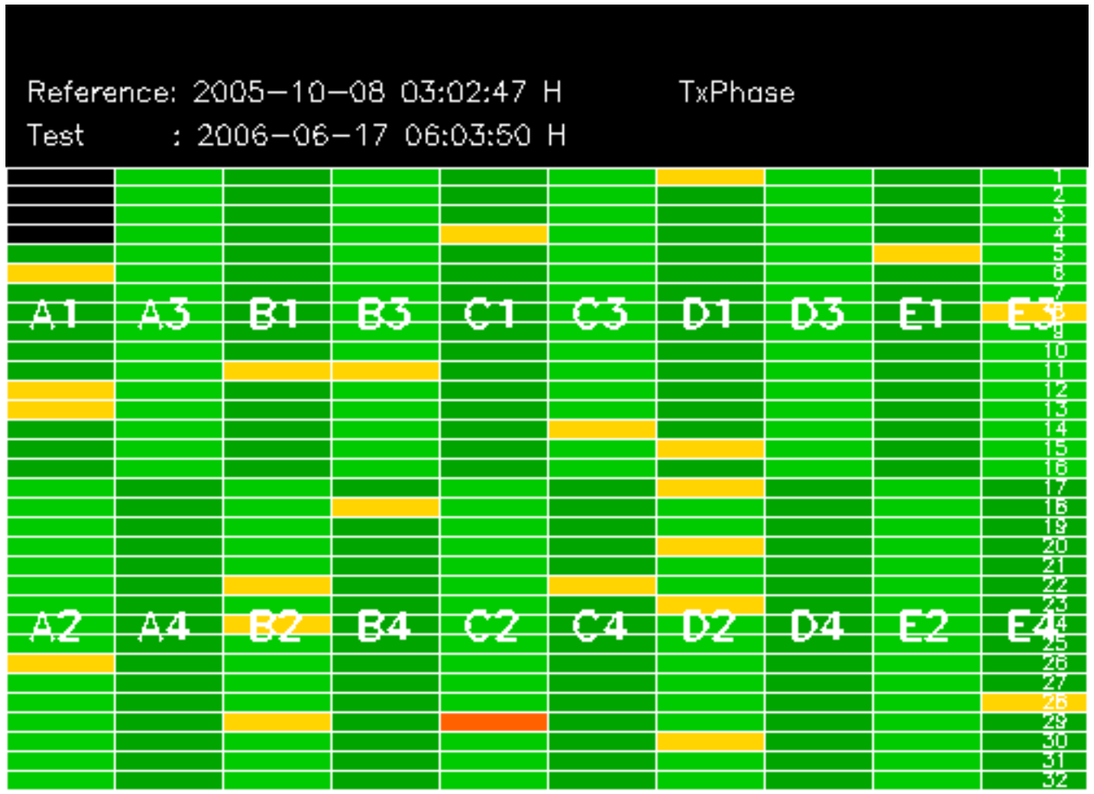
Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2006-06-17 06:03:50 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
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B4
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C4
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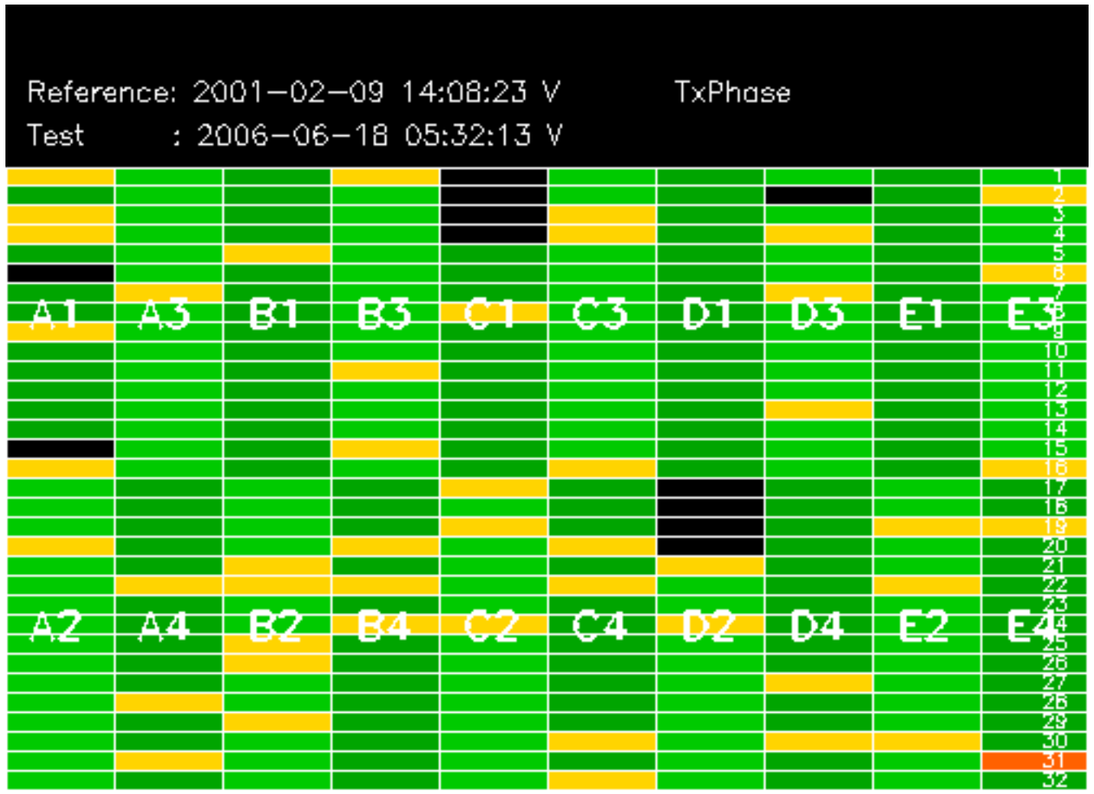
Reference: 2001-02-09 14:08:23 V
Test : 2006-06-18 05:32:13 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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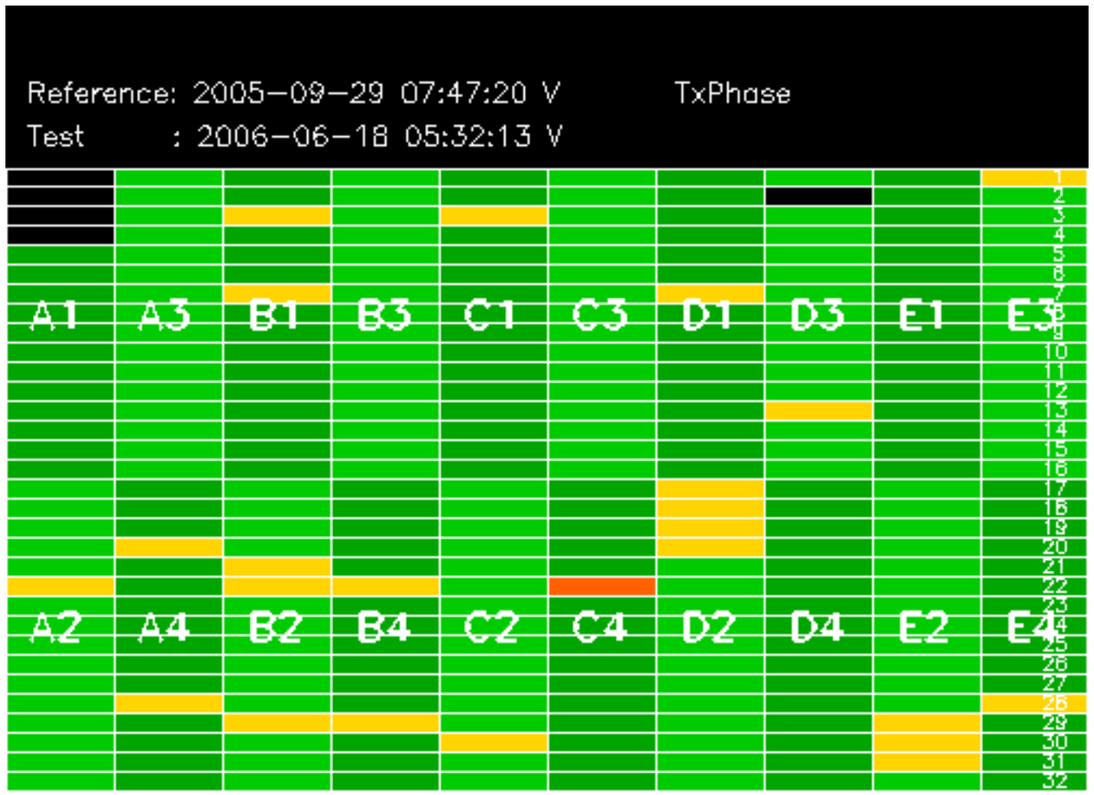
Reference: 2005-09-29 07:47:20 V
Test : 2006-06-18 05:32:13 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
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21
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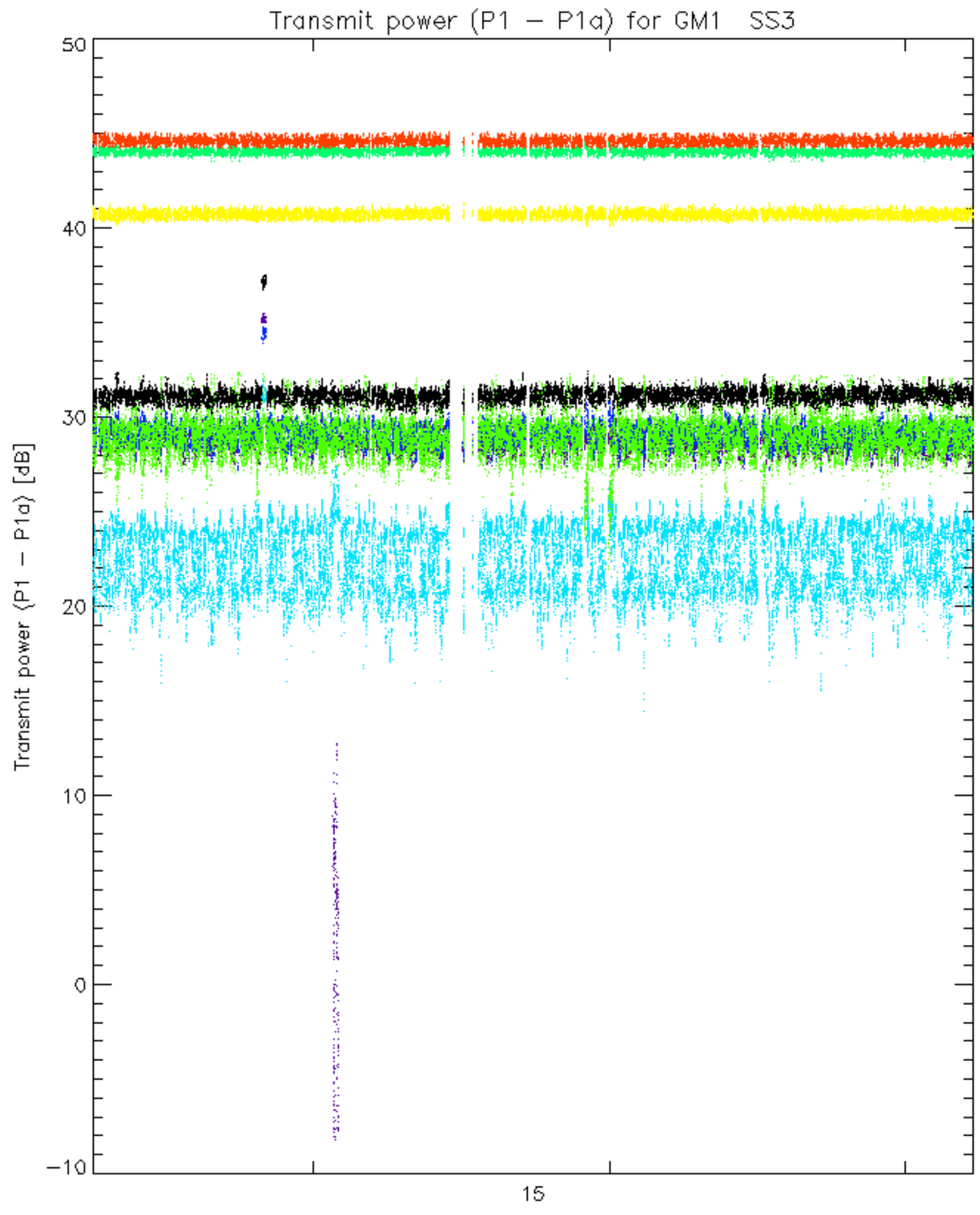
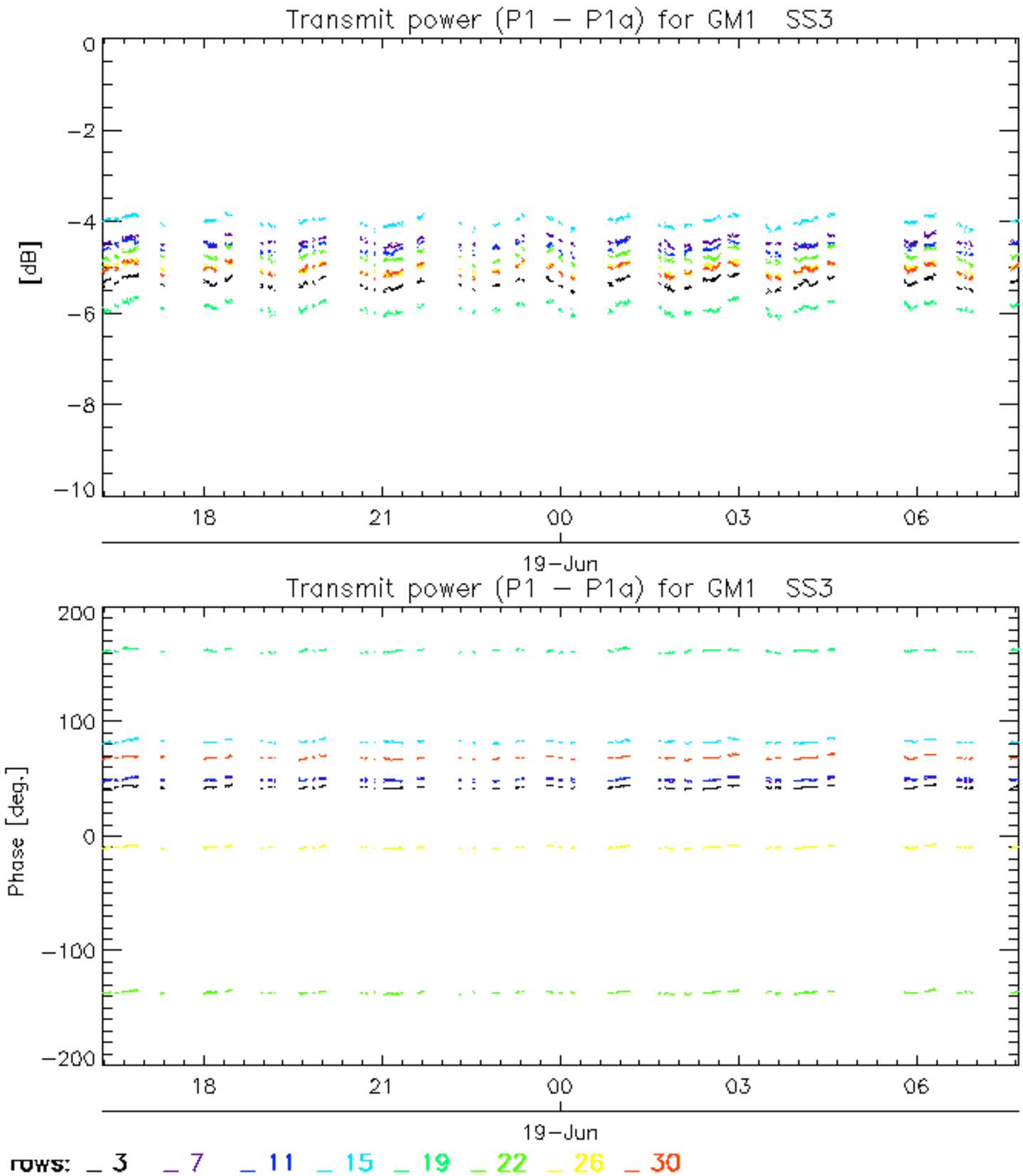
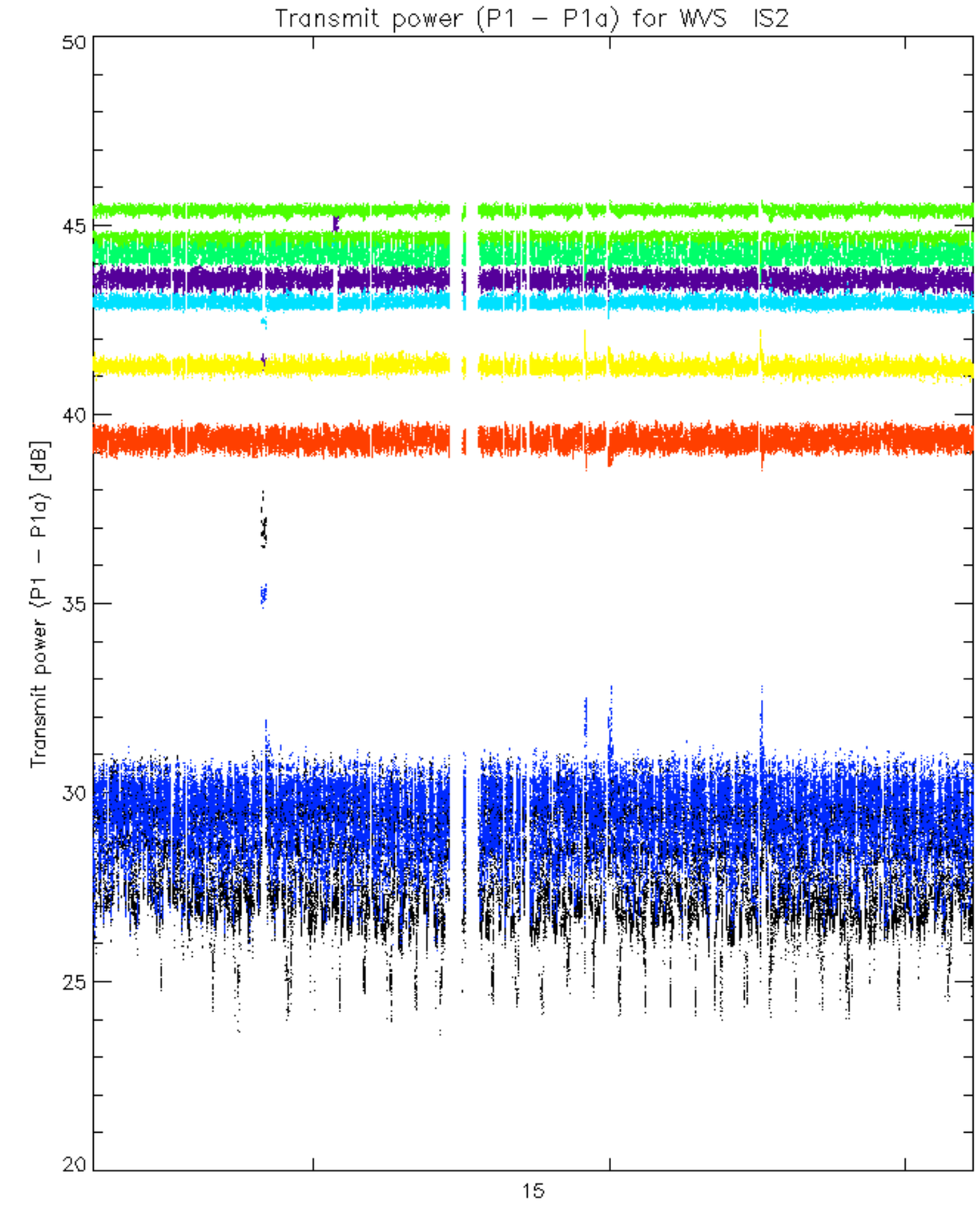
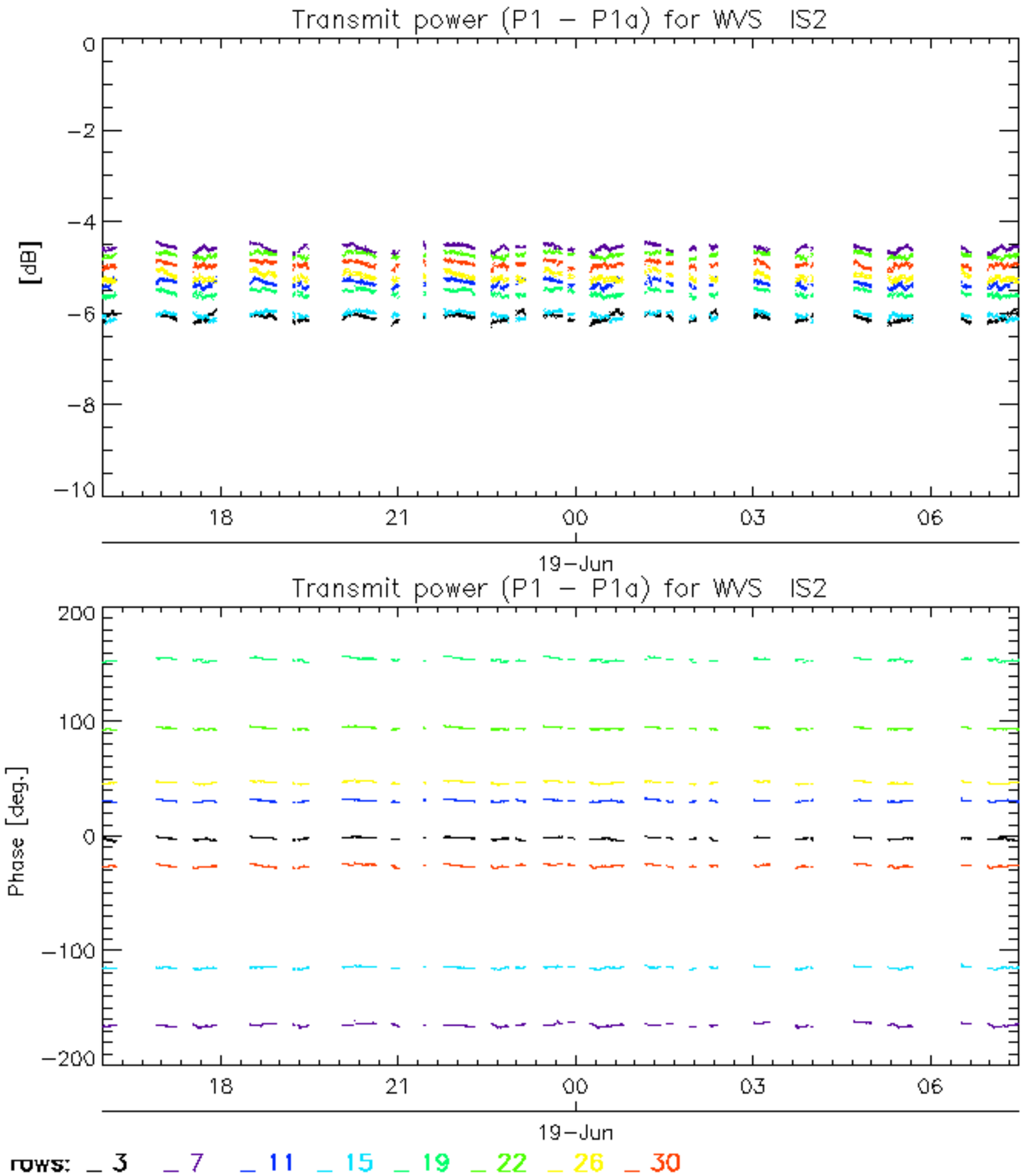
23
24
25
26
27
28
29
30
31
32


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
15
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
19–Jun
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
19–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
15
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
19–Jun
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
19–Jun
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.