PRELIMINARY REPORT OF 060715

last update on Sat Jul 15 16:21:16 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 2006-07-14 00:00:00 to 2006-07-15 16:21:16

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

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	38	72	14	4	0
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	38	72	14	4	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	38	72	14	4	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	38	72	14	4	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	35	56	29	22	70
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	35	56	29	22	70
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	35	56	29	22	70
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	35	56	29	22	70

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	20060714 033425
H	20060713 040602

MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference

MSM in H/H polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒
☒	☒

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

4.1.1 - Evolution for WVS

Evolution of cal pulses for WVS
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☒

4.1.2 - Evolution for GM1

Evolution of cal pulses for GM1
☒
☒

4.2 - Cyclic statistics

4.2.1 - Evolution for WVS

Evolution of cal pulses for WVS
☒

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.929677	0.013127	-0.020498
7	P1	-3.103441	0.009798	-0.022778
11	P1	-4.086122	0.013493	0.001595
15	P1	-6.174289	0.011655	-0.034729
19	P1	-3.392454	0.009394	-0.052329
22	P1	-4.542092	0.010245	-0.000288
26	P1	-3.934088	0.019796	0.023477
30	P1	-5.762938	0.007986	-0.015553
3	P1	-16.508698	0.360954	-0.096307
7	P1	-17.190754	0.099610	-0.093156
11	P1	-16.987213	0.276142	-0.107464
15	P1	-13.118667	0.155973	-0.001954
19	P1	-14.436837	0.048150	-0.152841
22	P1	-16.010996	0.418210	0.108572
26	P1	-15.136164	0.240384	0.089811
30	P1	-17.097021	0.342283	-0.096675

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.999094	0.087471	0.127000
7	P2	-21.927446	0.105561	0.088235
11	P2	-15.804854	0.122292	0.042516
15	P2	-7.134120	0.101861	0.010615
19	P2	-9.136855	0.091071	-0.019363
22	P2	-18.151350	0.085869	-0.020823
26	P2	-16.397915	0.093396	-0.041977
30	P2	-19.529287	0.094173	0.029309

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.175299	0.002924	0.002598
7	P3	-8.175299	0.002924	0.002598
11	P3	-8.175299	0.002924	0.002598
15	P3	-8.175299	0.002924	0.002598
19	P3	-8.175299	0.002924	0.002598
22	P3	-8.175299	0.002924	0.002598
26	P3	-8.175299	0.002924	0.002598
30	P3	-8.175299	0.002924	0.002598

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	-3.795746	0.033826	-0.133580
7	P1	-2.564418	0.007928	-0.002360
11	P1	-2.861541	0.014705	0.004340
15	P1	-3.565251	0.028846	-0.068885
19	P1	-3.416504	0.013449	-0.016037
22	P1	-5.093750	0.020327	0.017671
26	P1	-5.856356	0.015833	0.001897
30	P1	-5.192860	0.026297	-0.037304
3	P1	-11.579144	0.107590	-0.210578
7	P1	-9.975563	0.033749	0.006800
11	P1	-10.248946	0.058898	0.010743
15	P1	-10.758673	0.142324	-0.064056
19	P1	-15.528377	0.074438	-0.026269
22	P1	-20.917038	1.228266	-0.093420
26	P1	-16.333487	0.380834	0.131871
30	P1	-17.889771	0.410920	-0.115215

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.651304	0.071906	0.201786
7	P2	-22.419079	0.129262	0.116307
11	P2	-11.060828	0.042949	0.101643
15	P2	-4.916718	0.046390	0.036276
19	P2	-6.878758	0.042463	0.026543
22	P2	-8.198735	0.037596	0.032615
26	P2	-24.188745	0.064264	0.005337
30	P2	-22.021362	0.050088	0.055191

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.015547	0.003733	0.011927
7	P3	-8.015514	0.003735	0.013271
11	P3	-8.015324	0.003750	0.012788
15	P3	-8.015471	0.003733	0.013157
19	P3	-8.015495	0.003736	0.012967
22	P3	-8.015486	0.003736	0.012805
26	P3	-8.015443	0.003733	0.012832
30	P3	-8.015474	0.003725	0.013353

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

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4.3.2 - Evolution for GM1

☒

5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000570356
	stdev	1.63795e-07
MEAN Q	mean	0.000542741
	stdev	2.10731e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.138531
	stdev	0.00109286
STDEV Q	mean	0.138893
	stdev	0.00111134

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006071[345]
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_1PNPDE20060714_004241_000001742049_00245_22844_0772.N1	1	0
ASA_IMM_1PNPDE20060714_005914_000000452049_00246_22845_0771.N1	1	0
ASA_WSM_1PNPDE20060713_162646_000001032049_00241_22840_2889.N1	0	38
ASA_WSM_1PNPDE20060713_230852_000001032049_00245_22844_2962.N1	0	55
ASA_WSM_1PNPDE20060713_235456_000003302049_00245_22844_2976.N1	0	34
ASA_WSM_1PNPDE20060714_113456_000000852049_00252_22851_3060.N1	0	14
ASA_WSM_1PNPDE20060715_010155_000001462049_00260_22859_3155.N1	0	34
ASA_APM_1PNPDE20060714_141717_000000732049_00254_22853_0606.N1	0	17

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

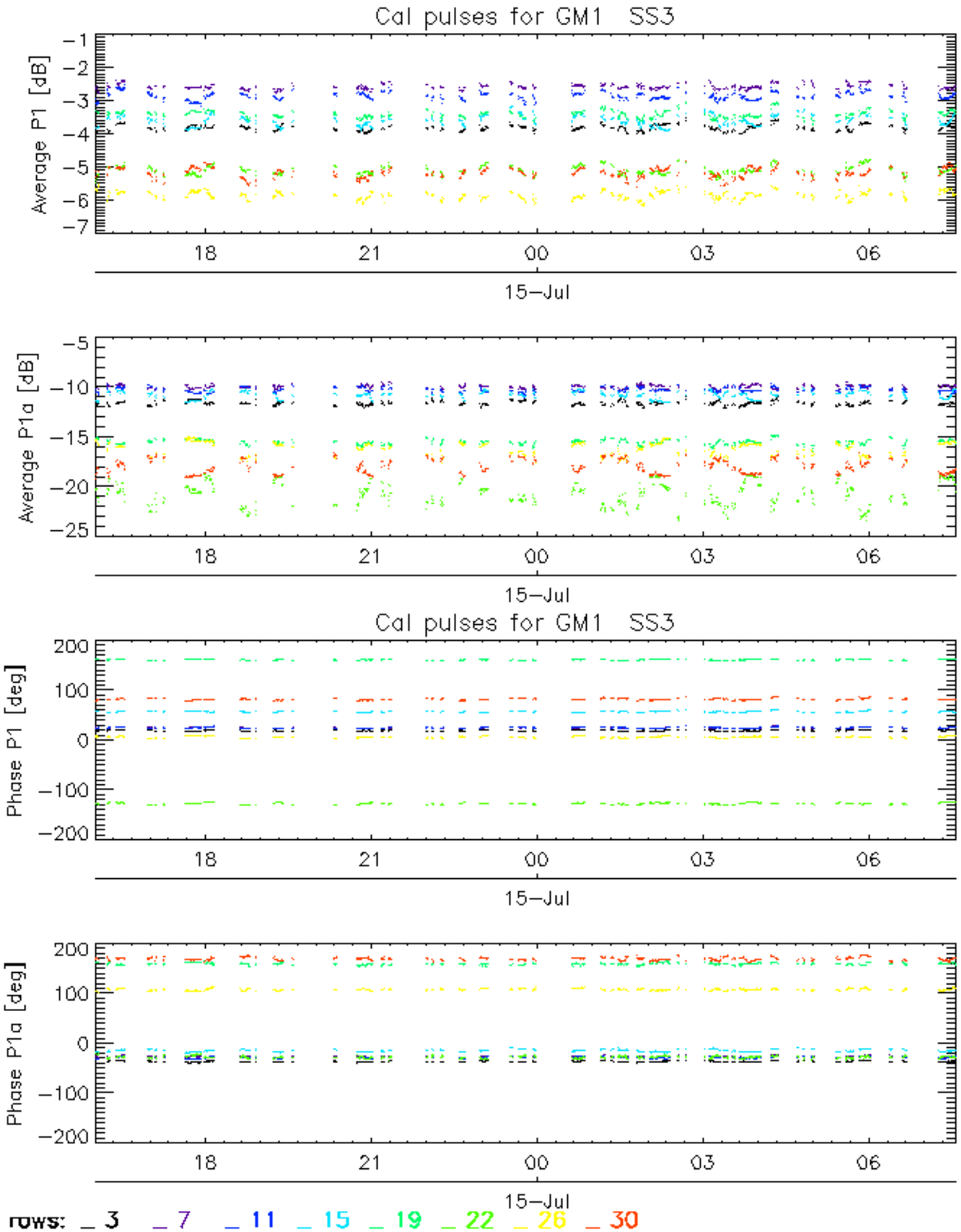
Evolution of Absolute Doppler

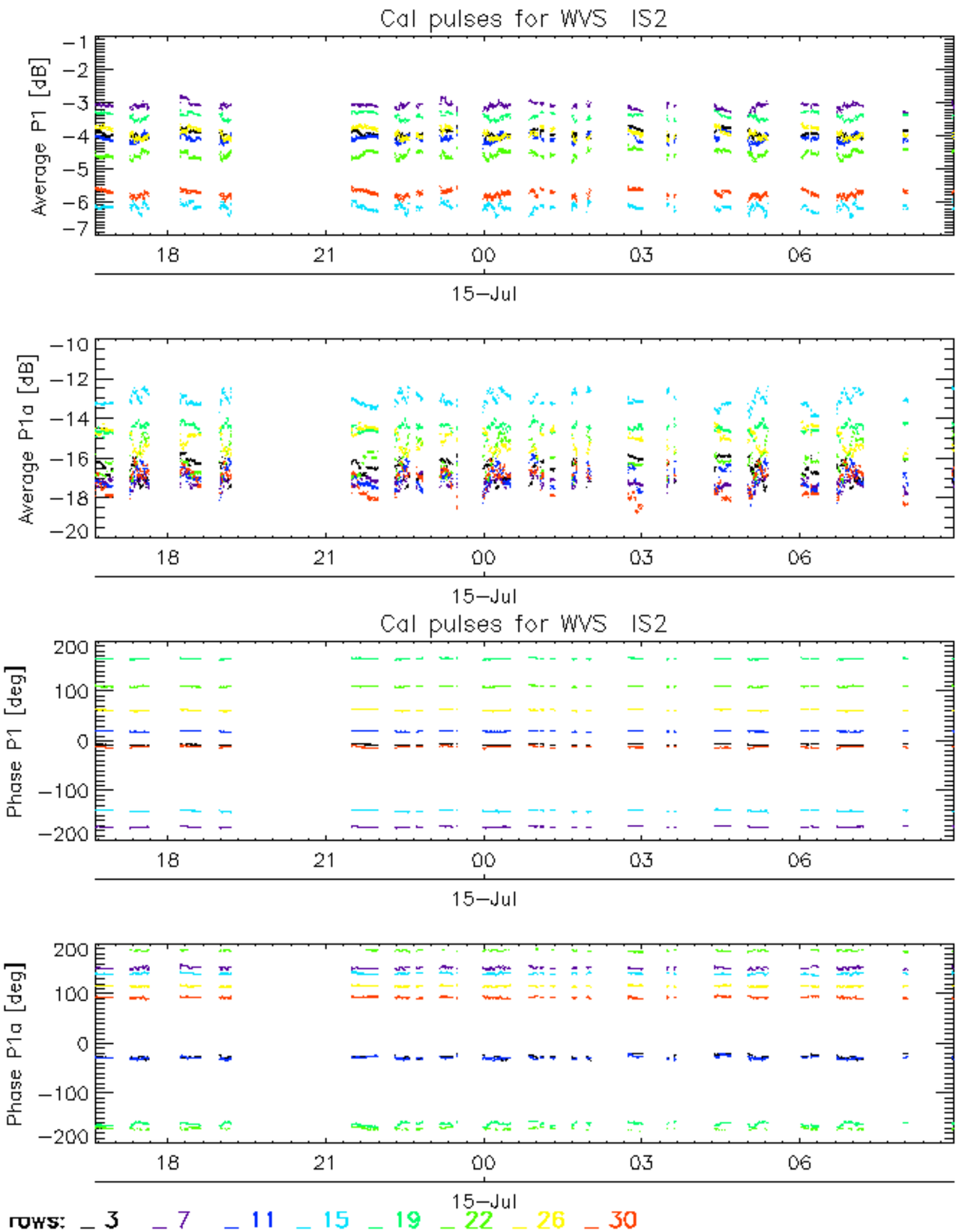
Acsending

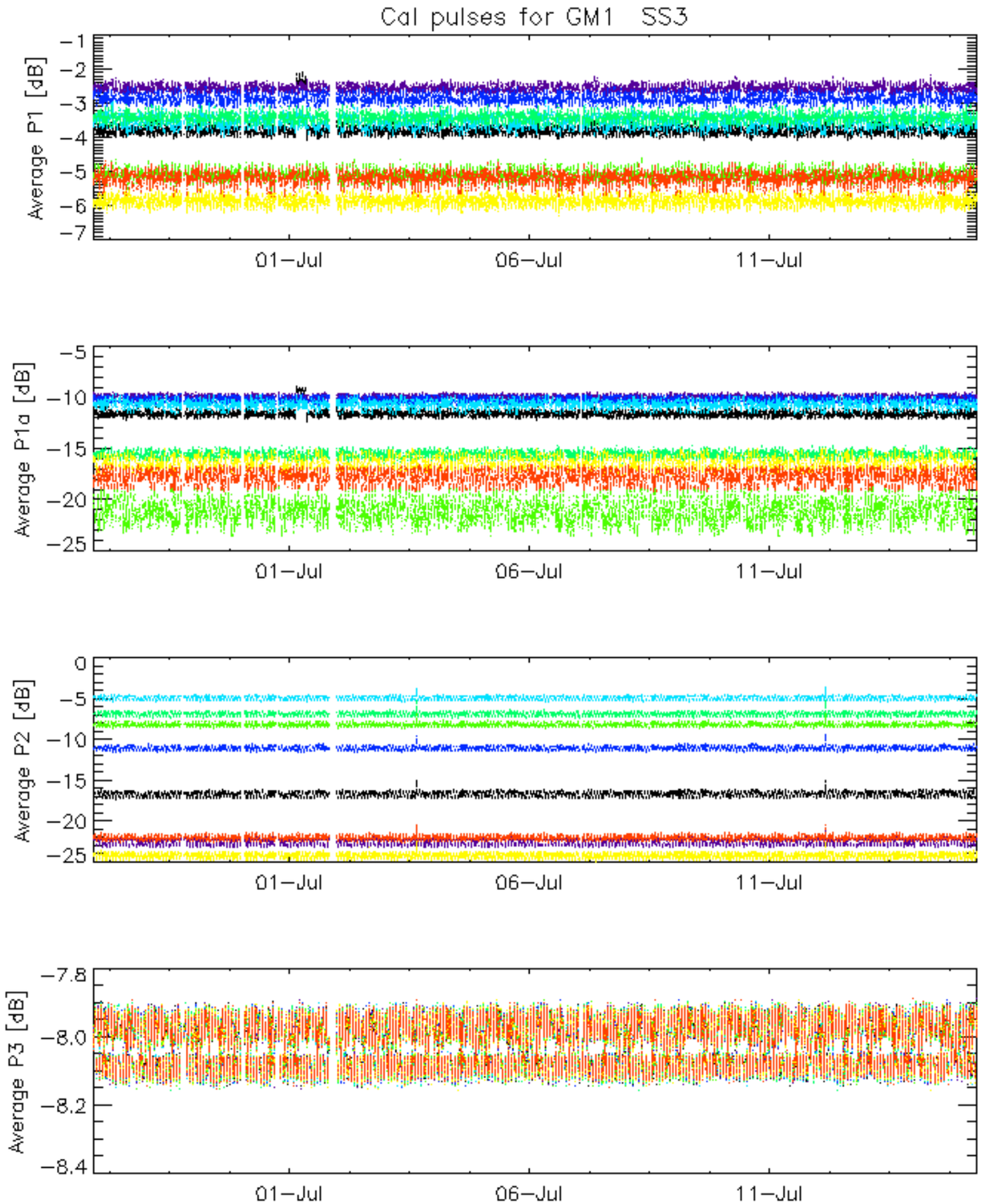
Descending

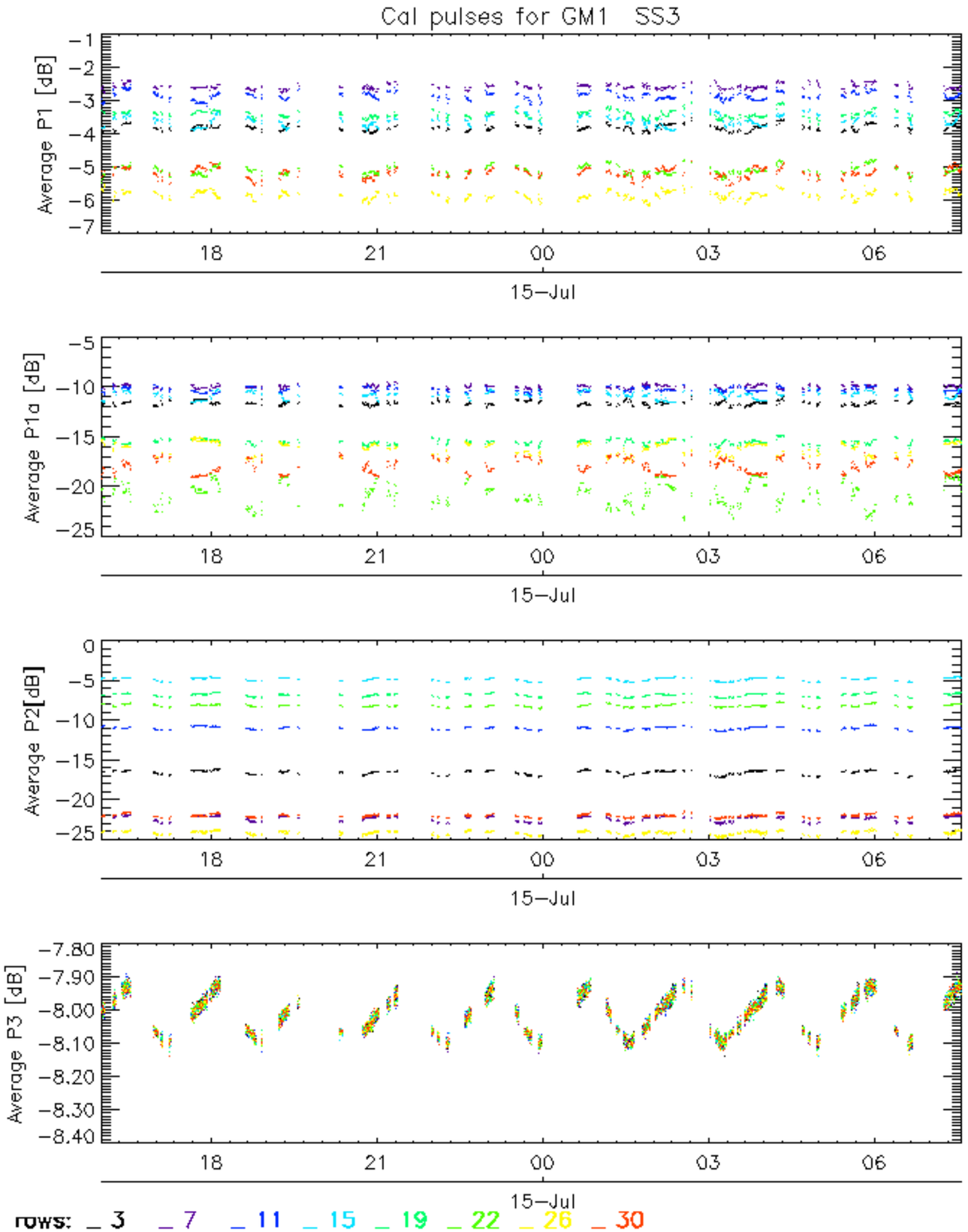
7.6 - Doppler evolution versus ANX for GM1

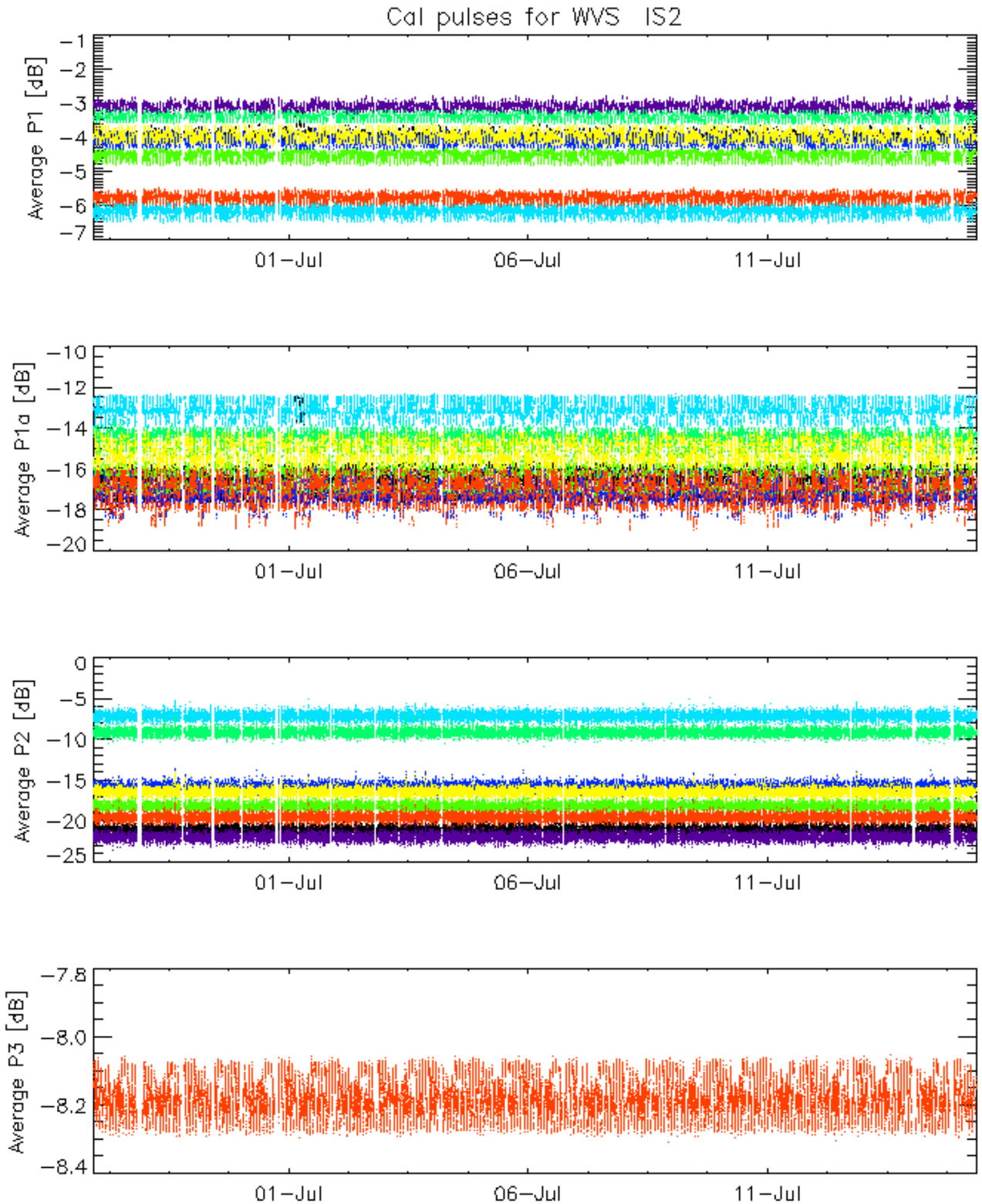
Evolution Doppler error versus ANX

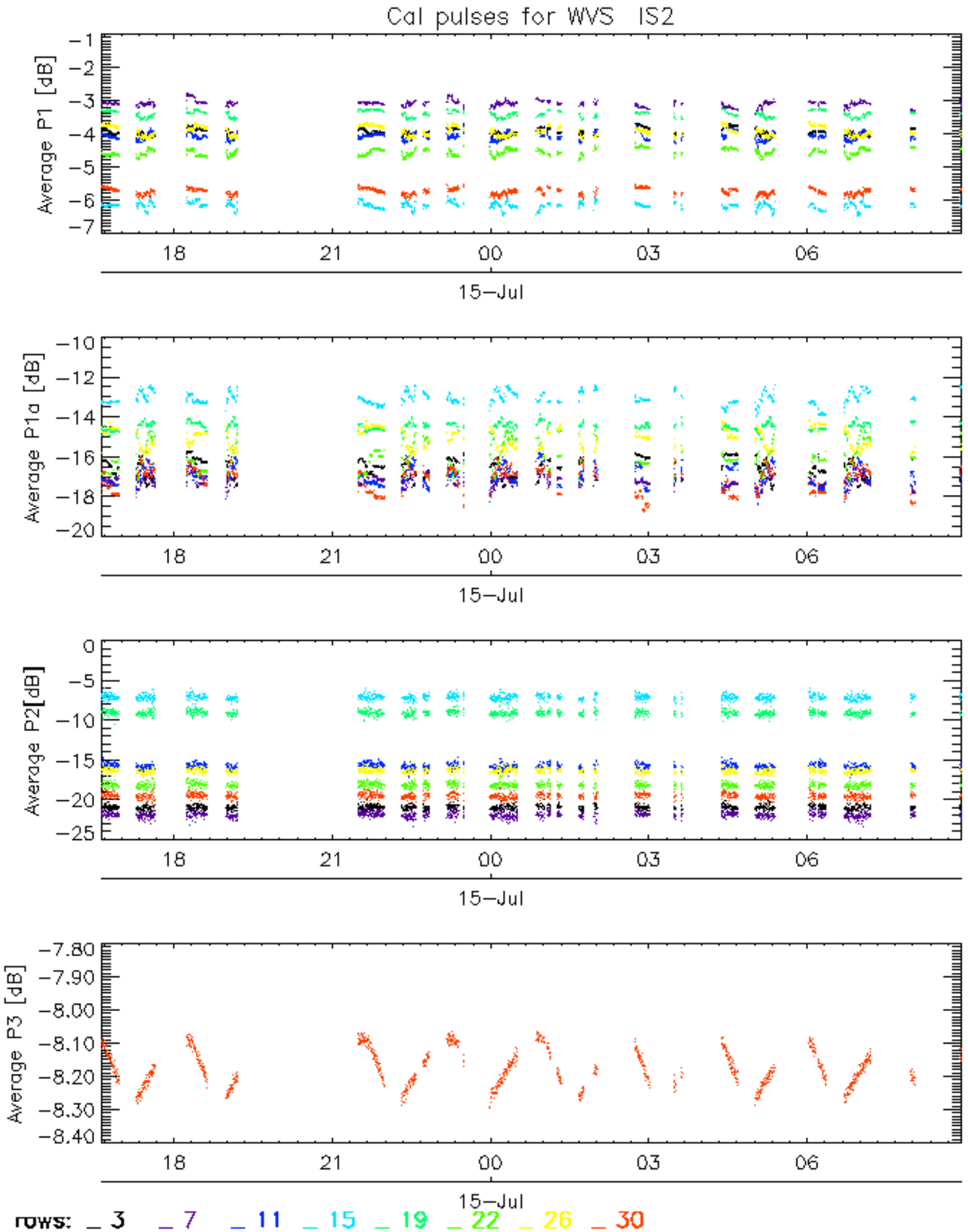


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
15−Jul
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
15−Jul
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
15−Jul
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
15−Jul
rows: _ 3 _ 7 _ 11 _ 15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


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

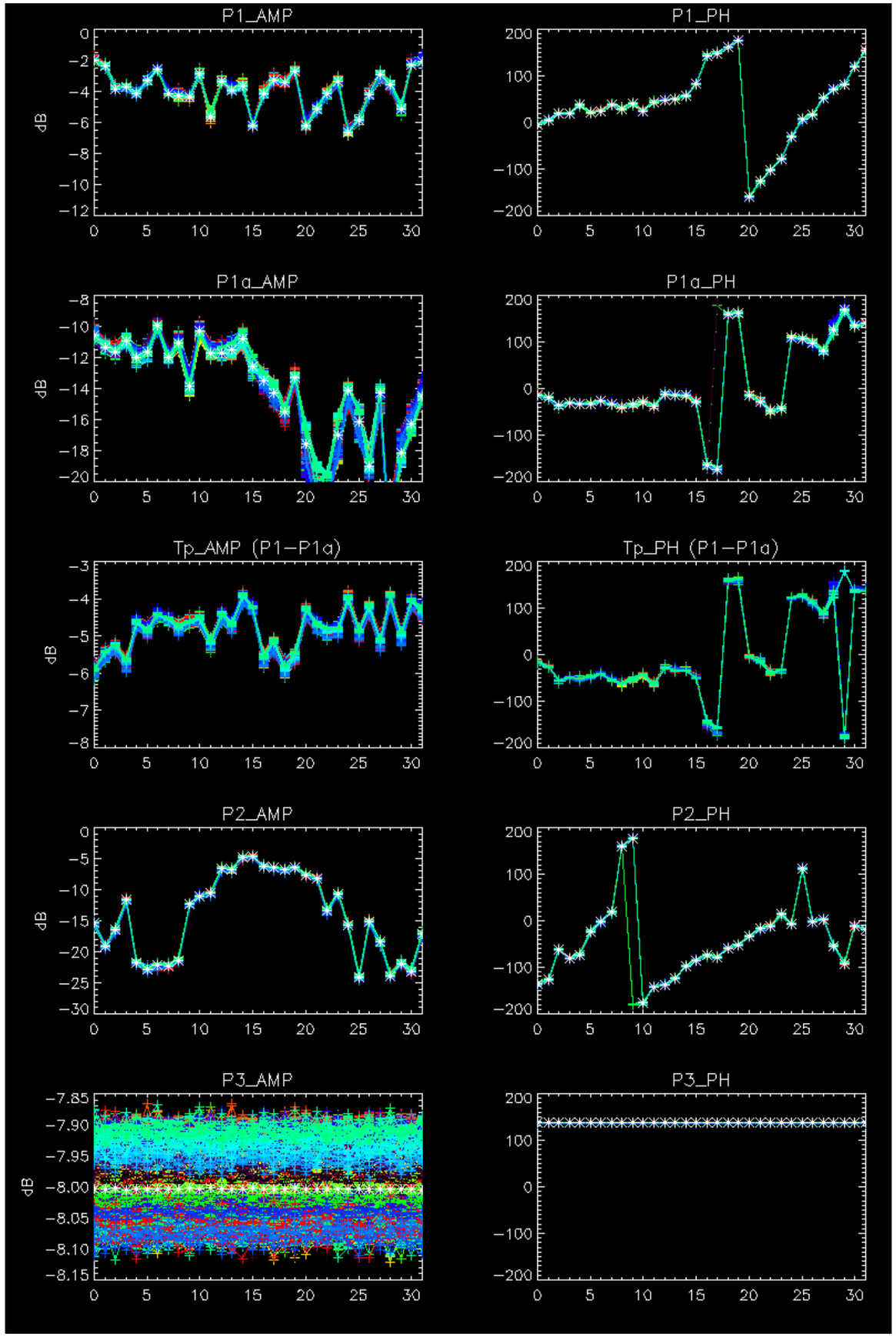

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
01−Jul
06−Jul
11−Jul
Average P1a [dB]
−5
−10
−15
−20
−25
01−Jul
06−Jul
11−Jul
Average P2 [dB]
0
−5
−10
−15
−20
−25
01−Jul
06−Jul
11−Jul
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
01−Jul
06−Jul
11−Jul
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

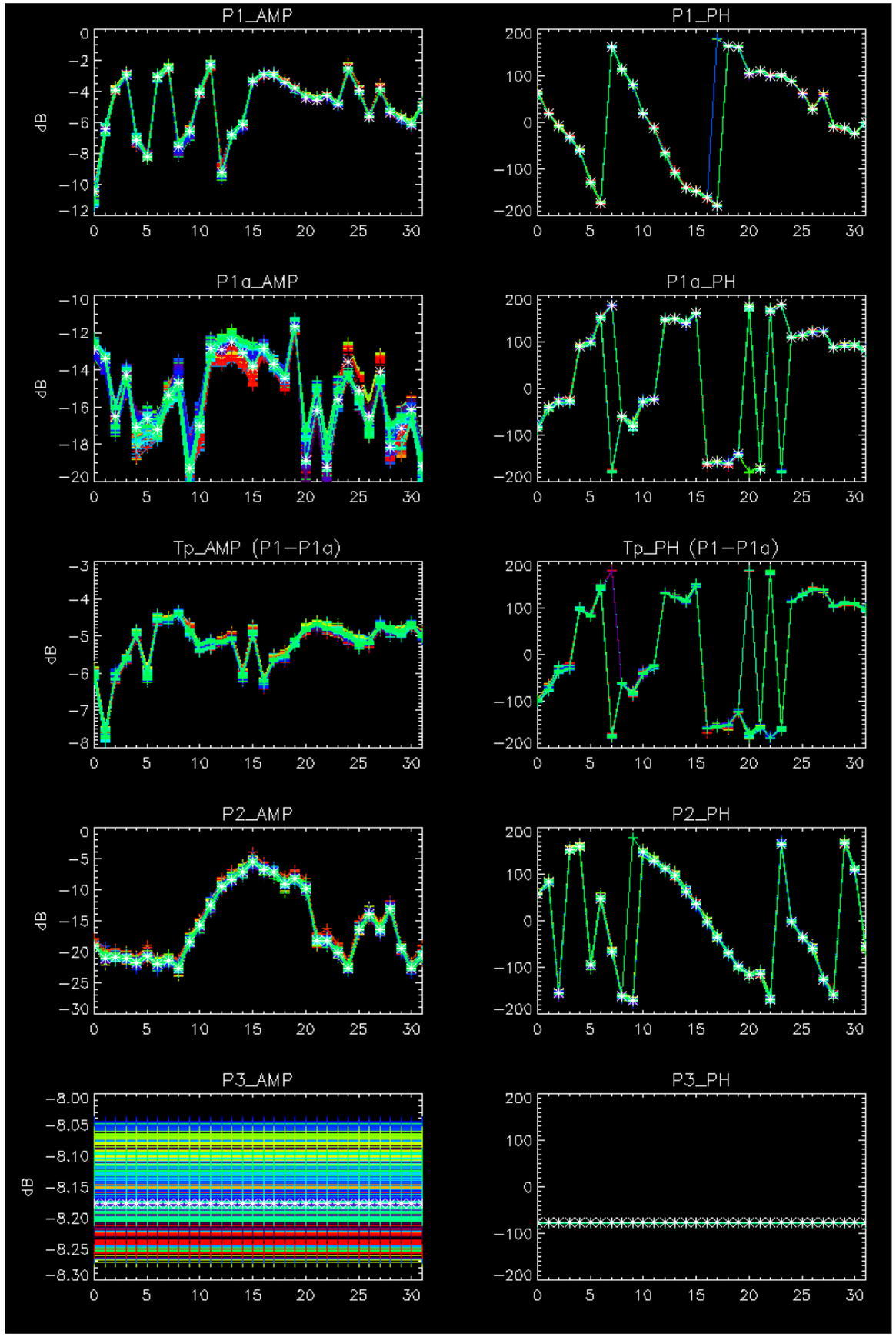

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
15−Jul
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
15−Jul
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
15−Jul
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
15−Jul
rows: _ 3 _ 7 _ 11 _ 15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


Cal pulses for WVS IS2
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
01−Jul
06−Jul
11−Jul
Average P1a [dB]
−10
−12
−14
−16
−18
−20
01−Jul
06−Jul
11−Jul
Average P2 [dB]
0
−5
−10
−15
−20
−25
01−Jul
06−Jul
11−Jul
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
01−Jul
06−Jul
11−Jul
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
15−Jul
Average P1a [dB]
−10
−12
−14
−16
−18
−20
18
21
00
03
06
15−Jul
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
15−Jul
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
15−Jul
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

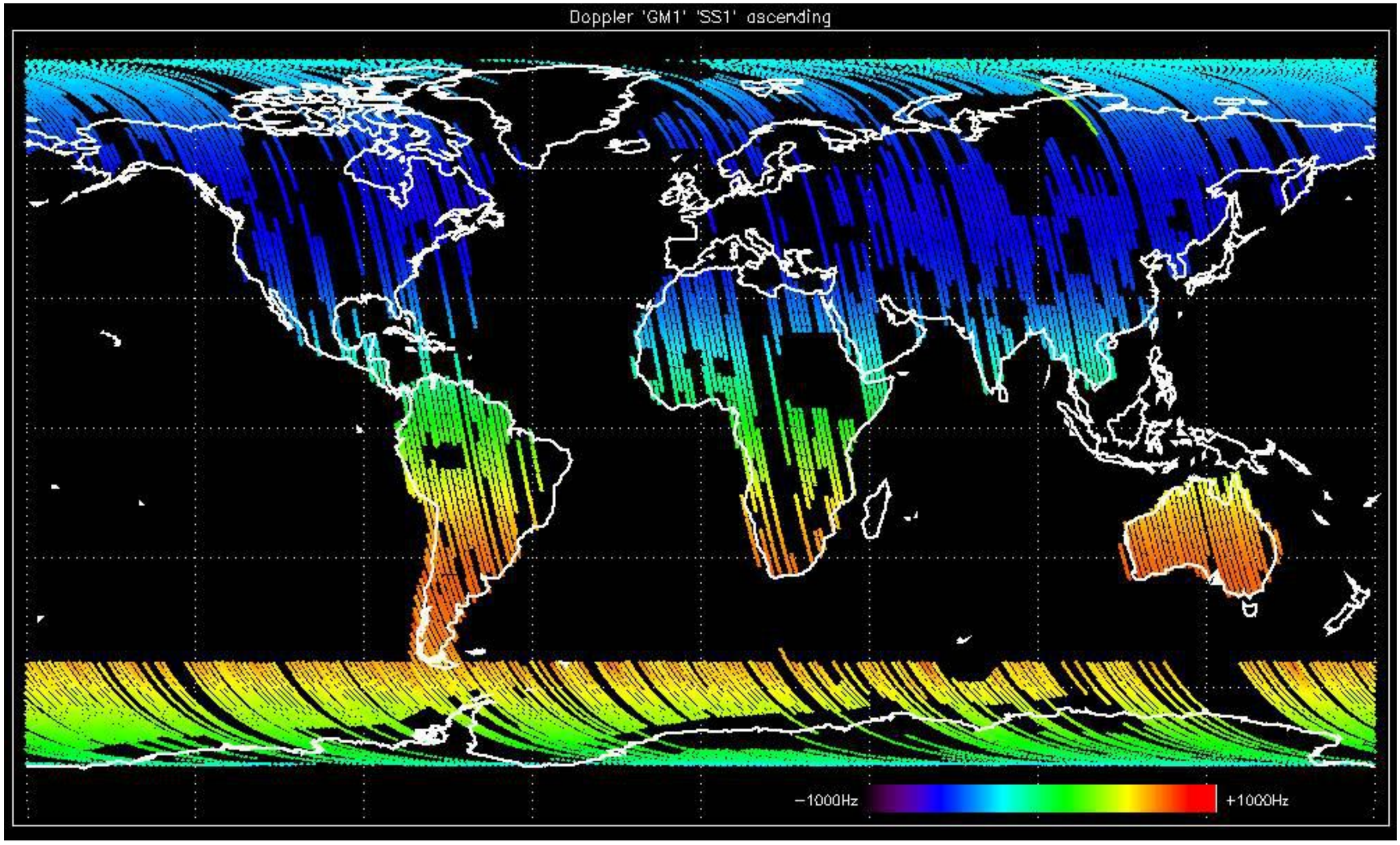
No anomalies observed.

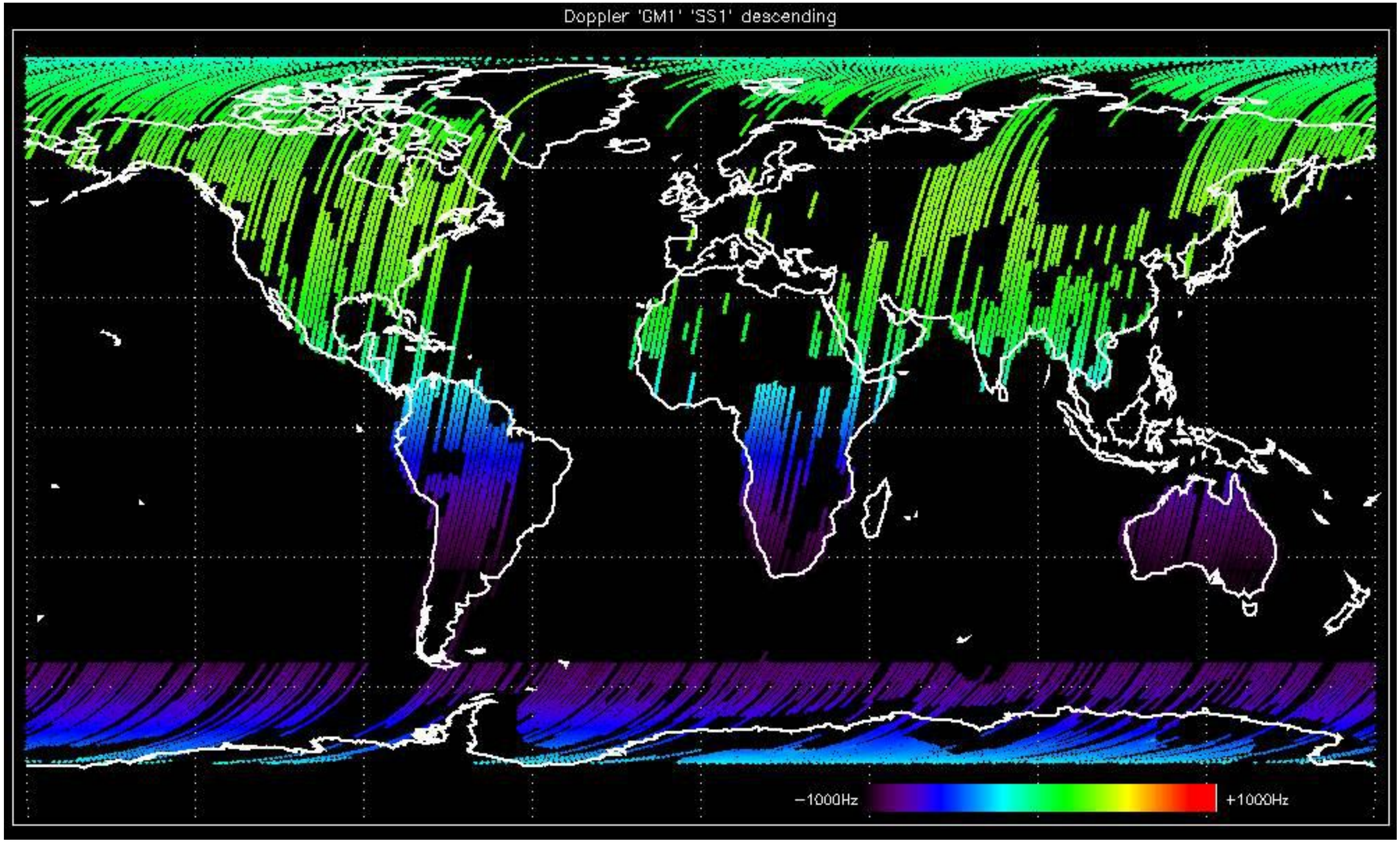

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

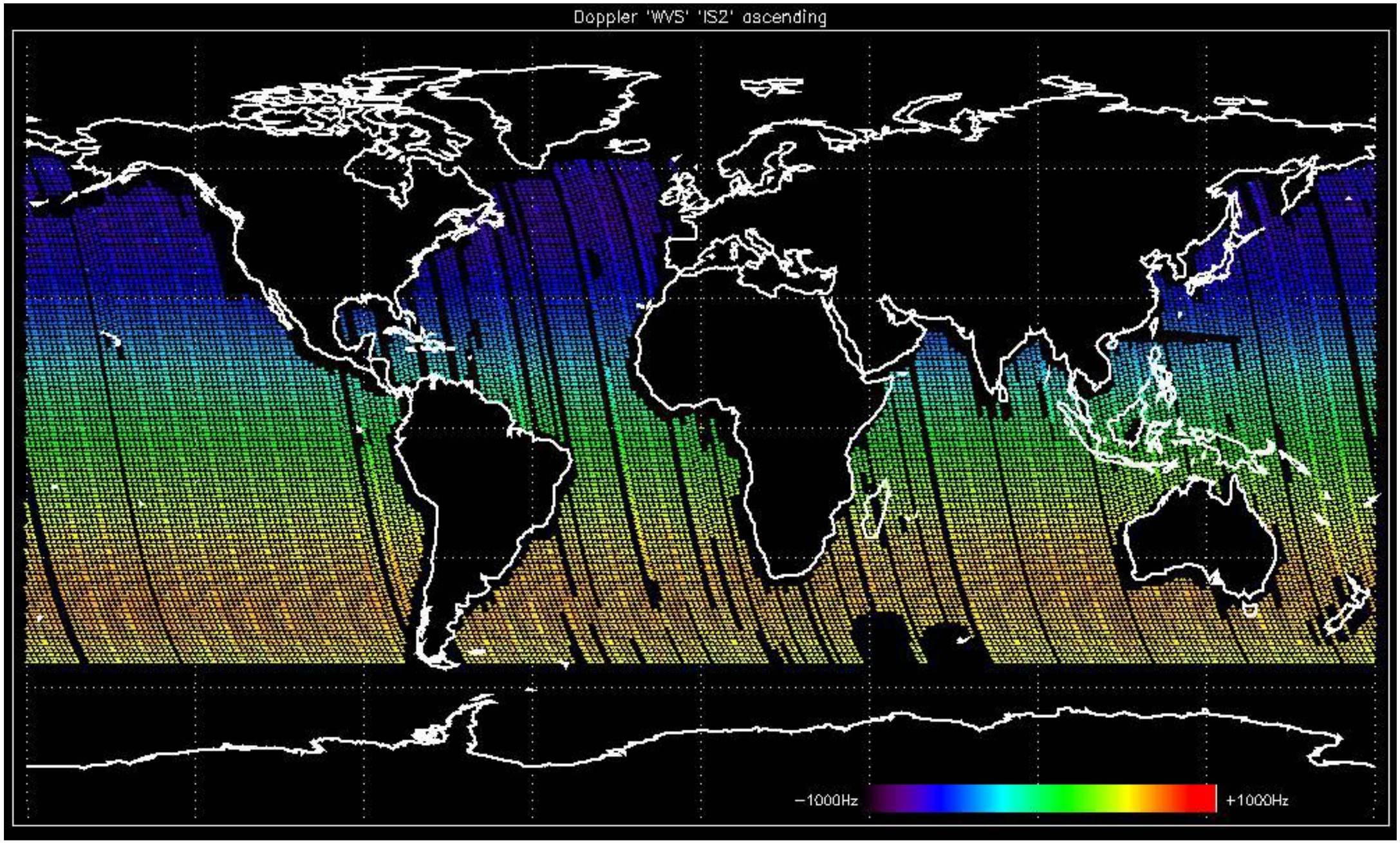

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

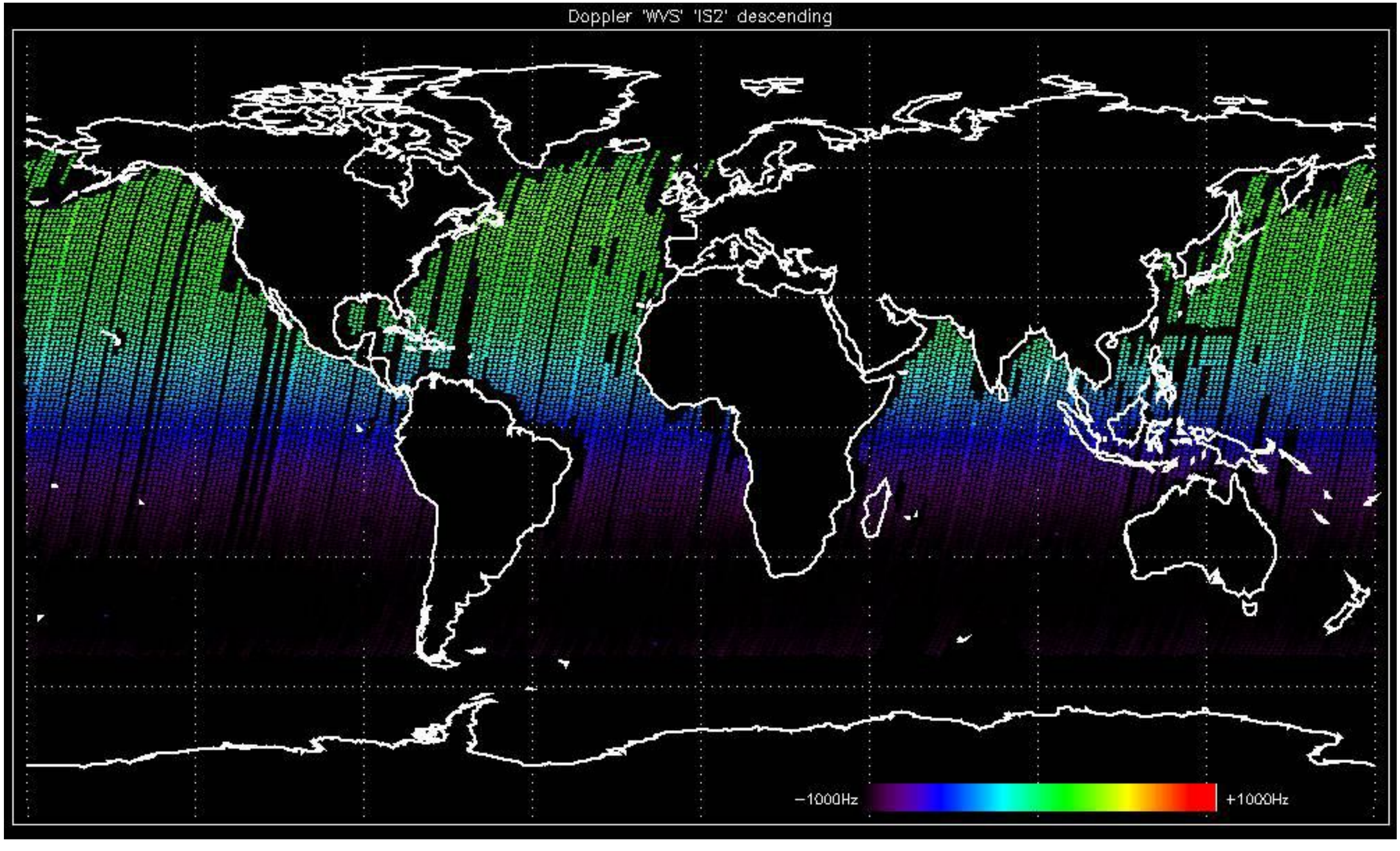
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

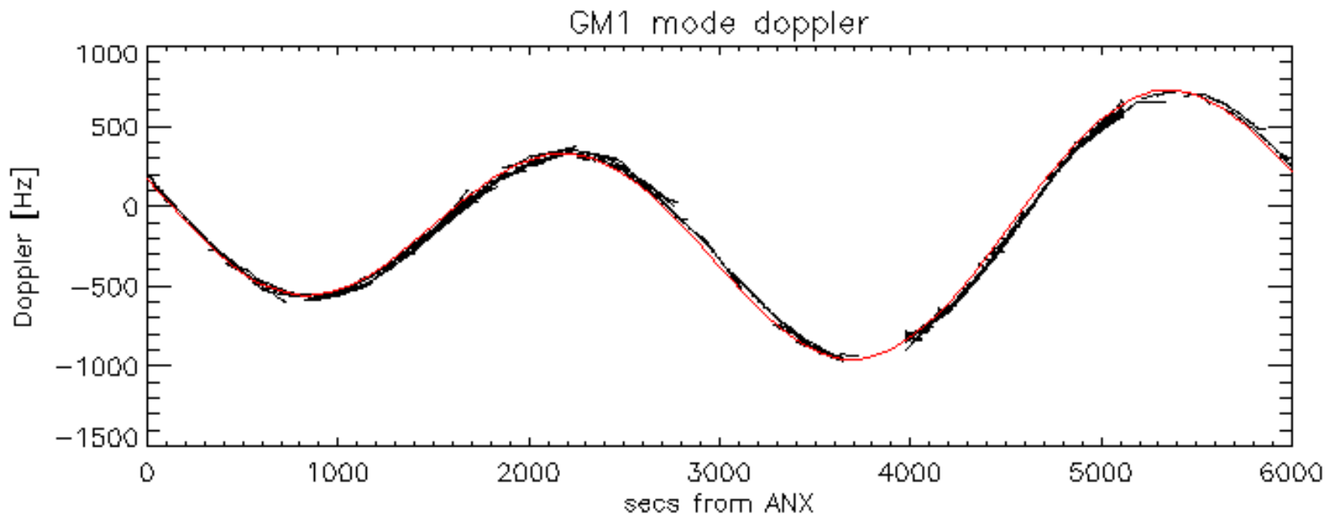
Preliminary report.The data is not yet controled

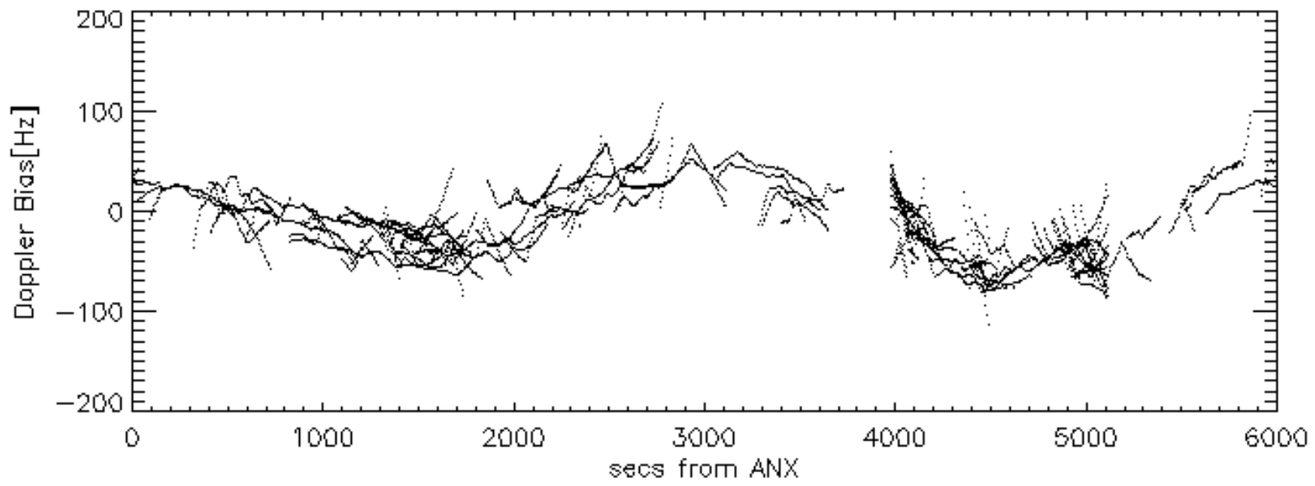

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

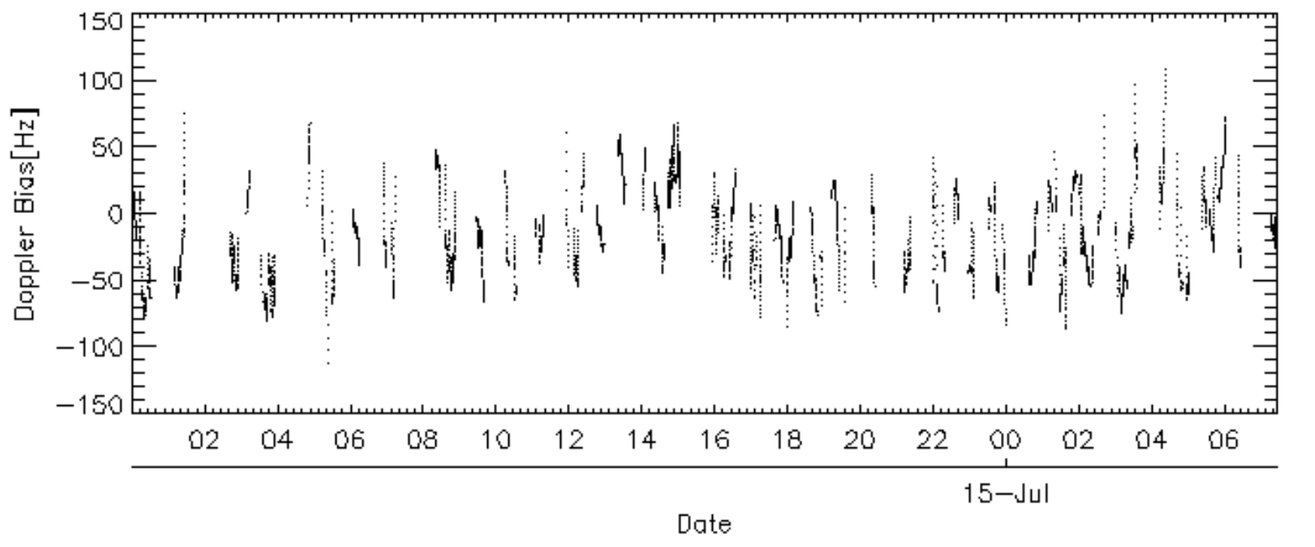

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

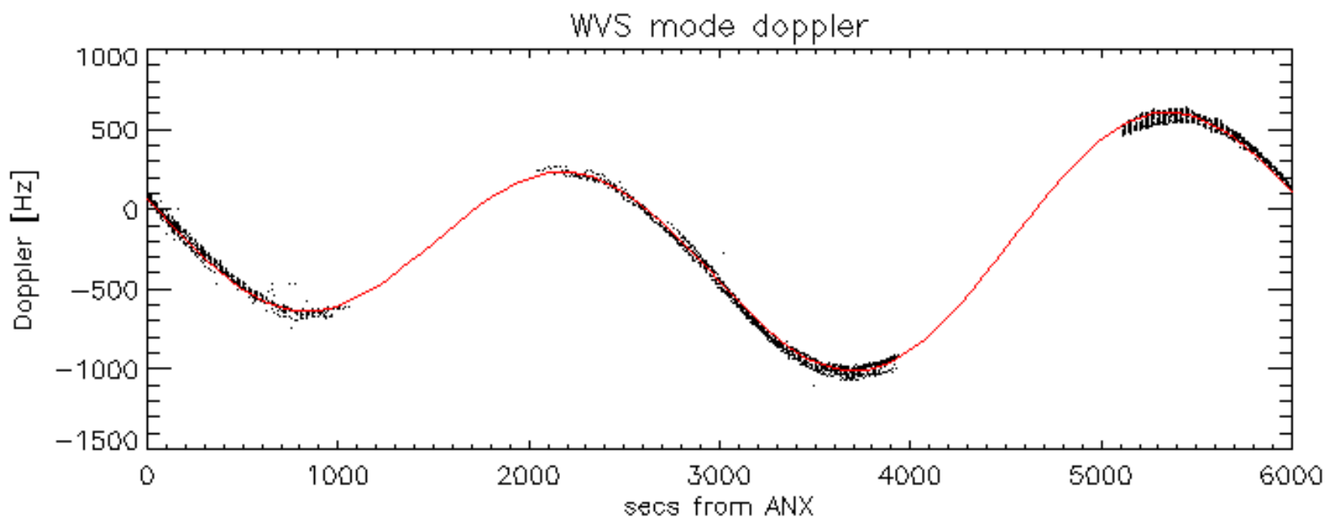

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

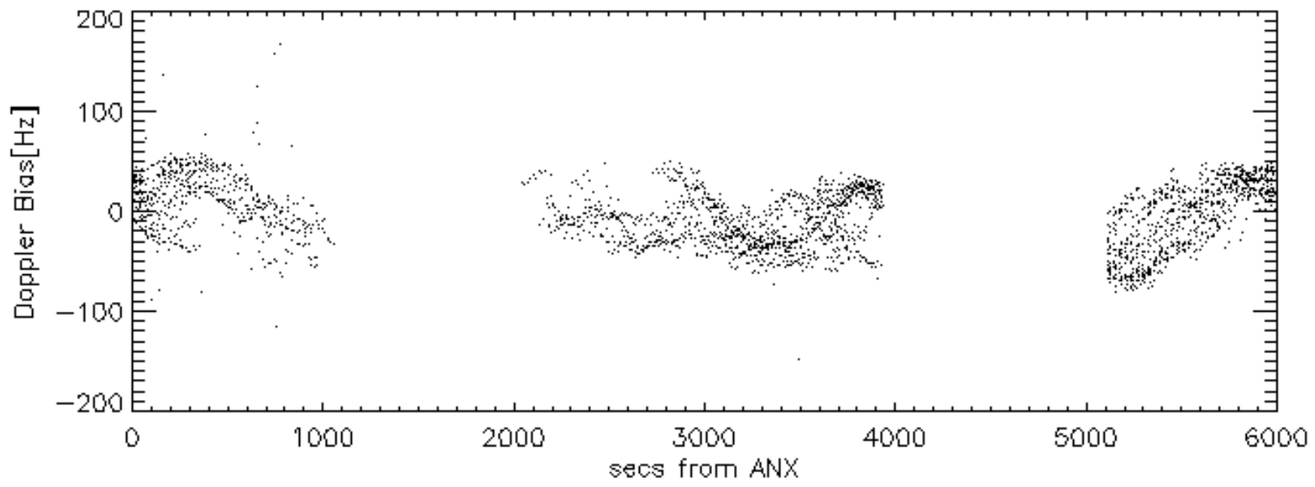

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

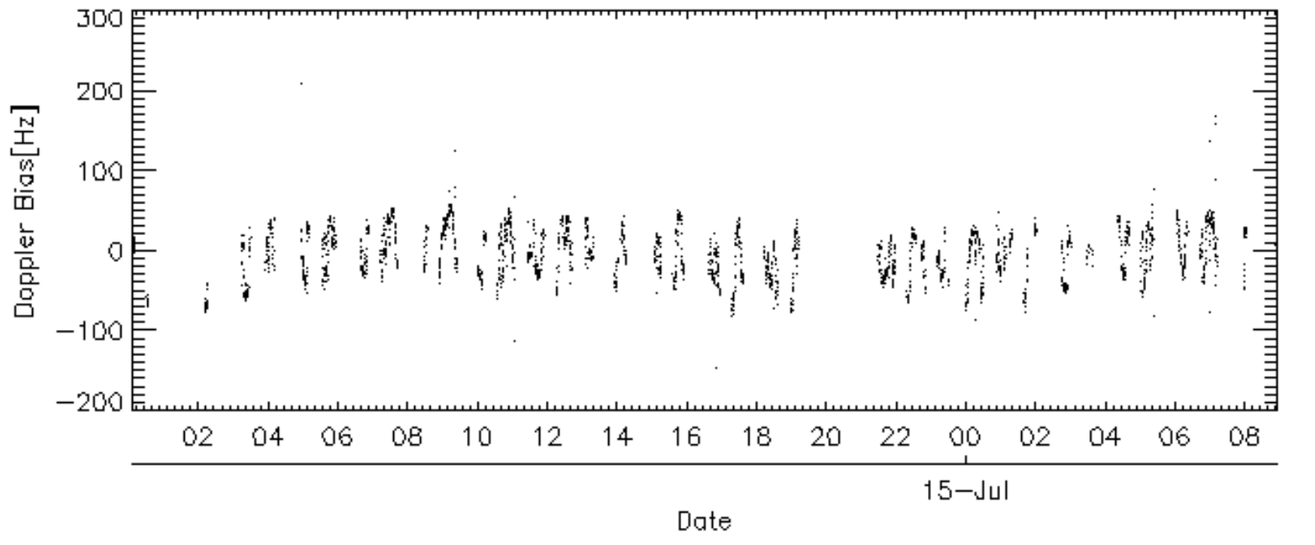

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

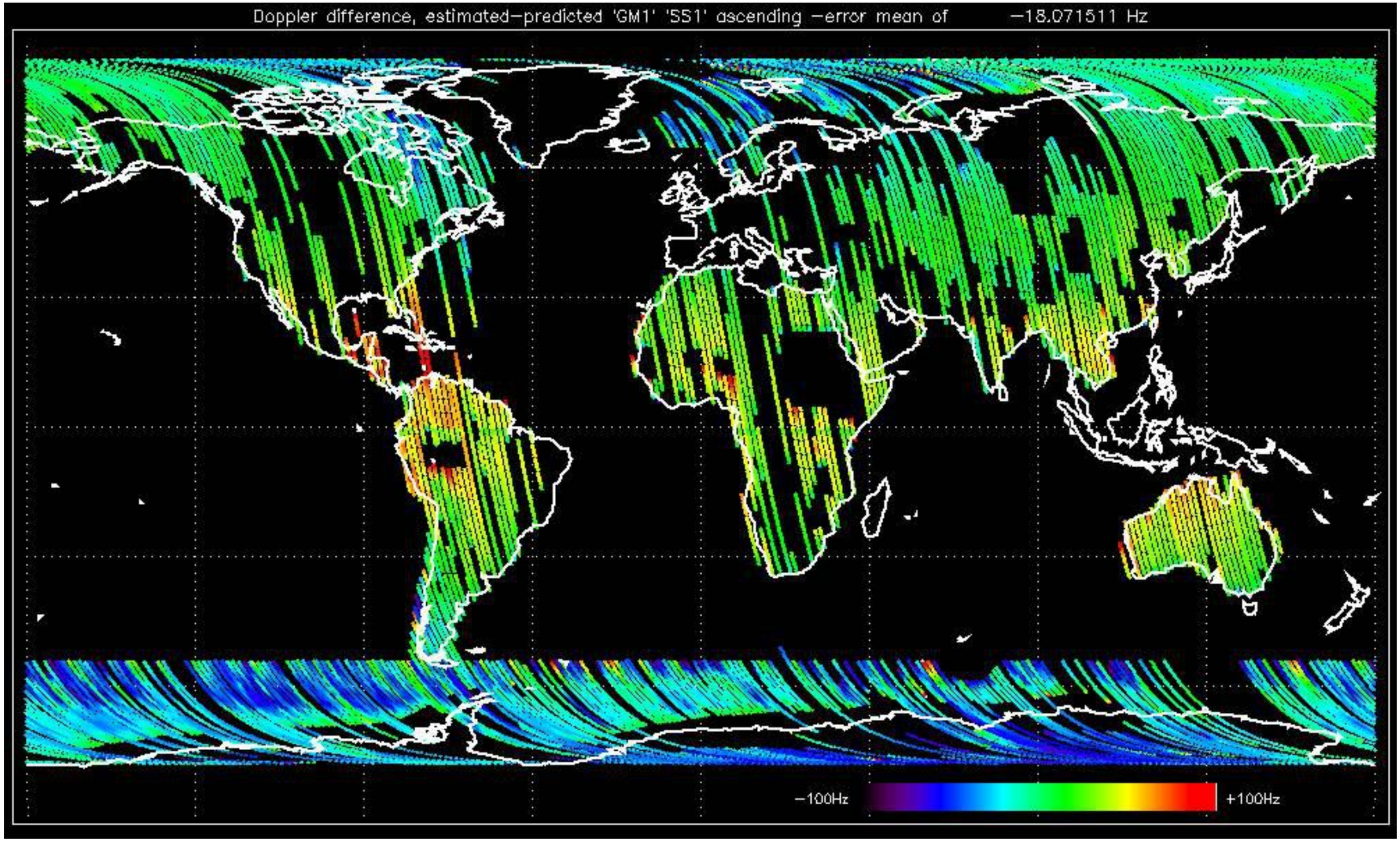

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

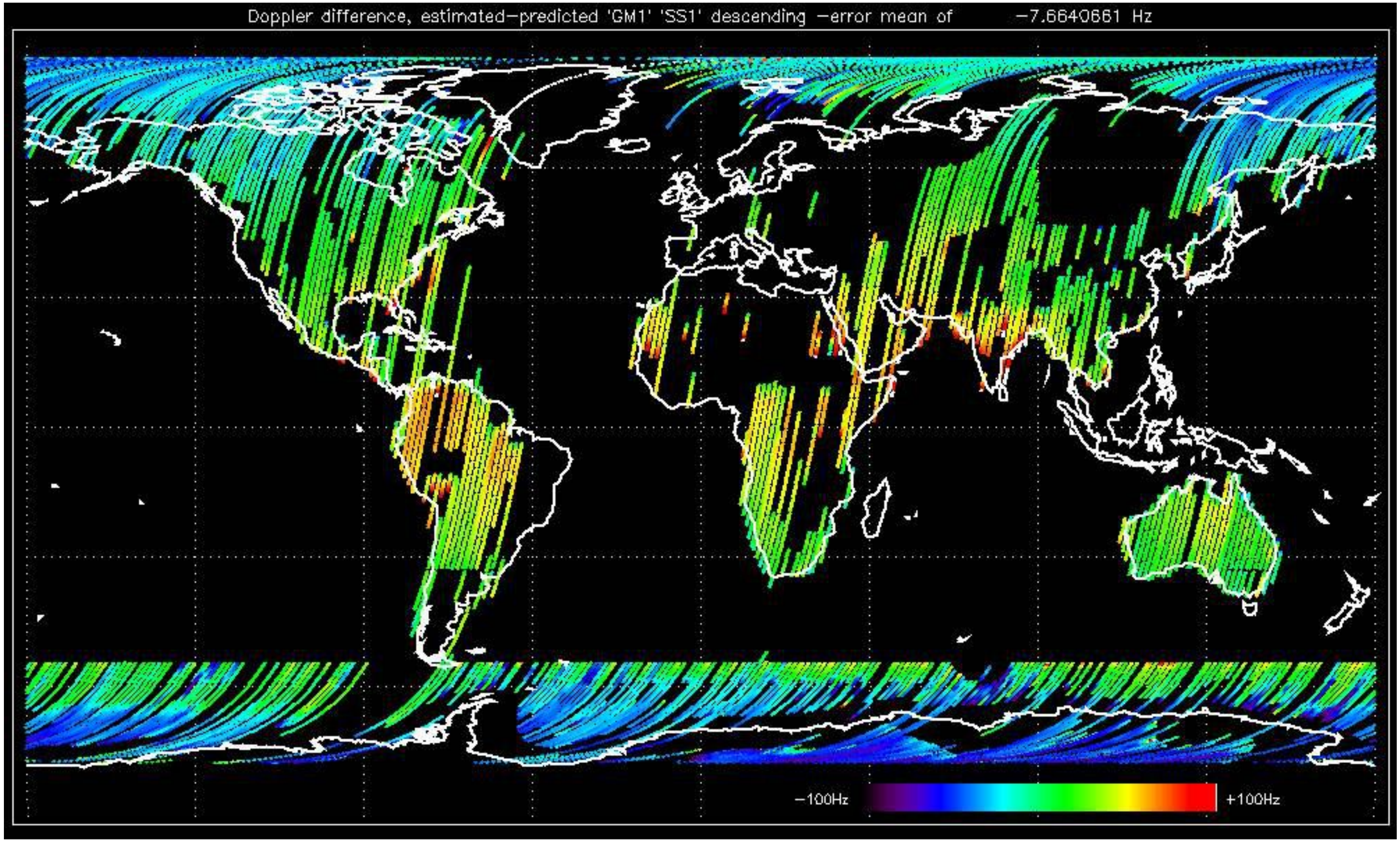

Doppler Bias[Hz]
150
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
15−Jul
Date

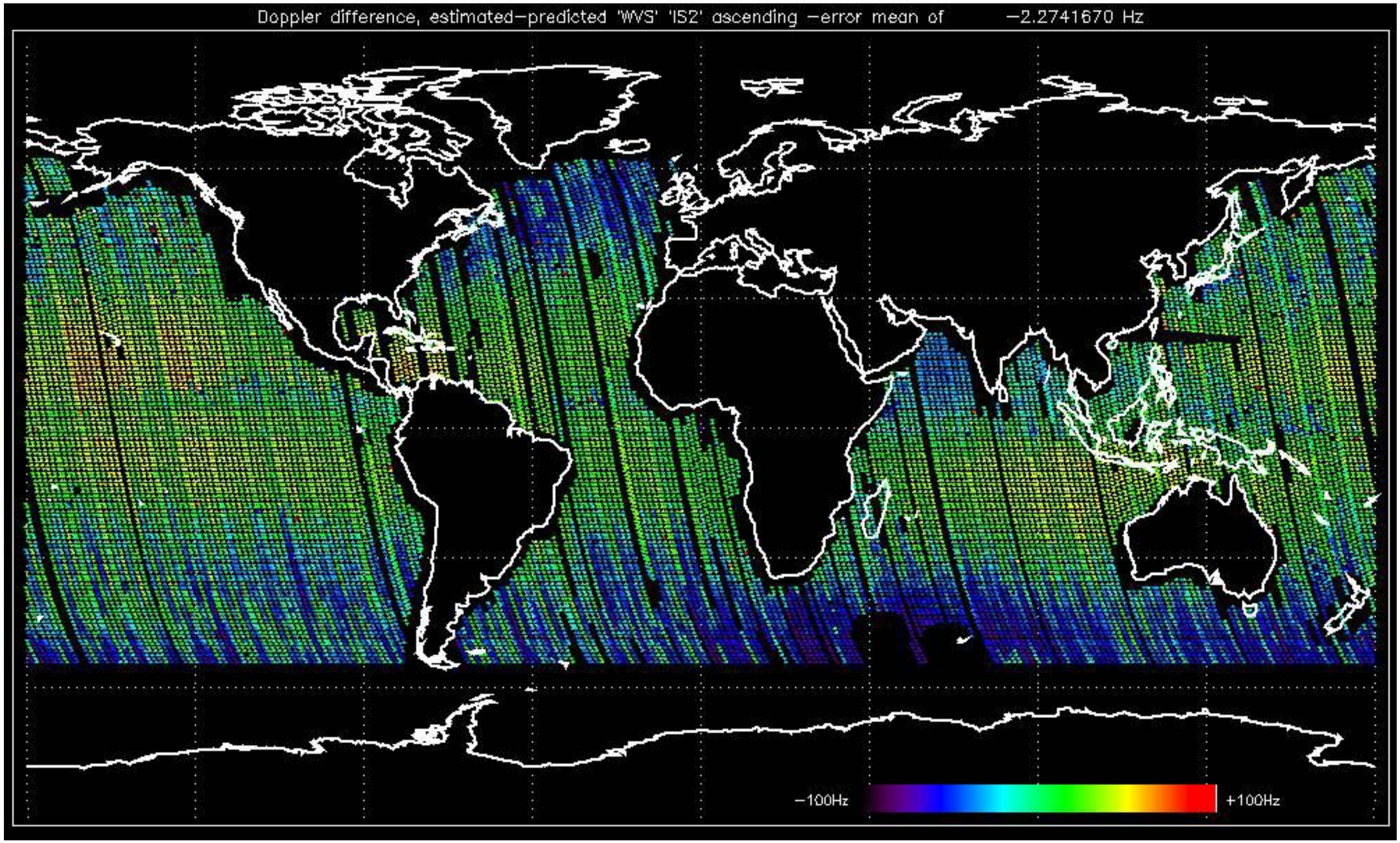

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

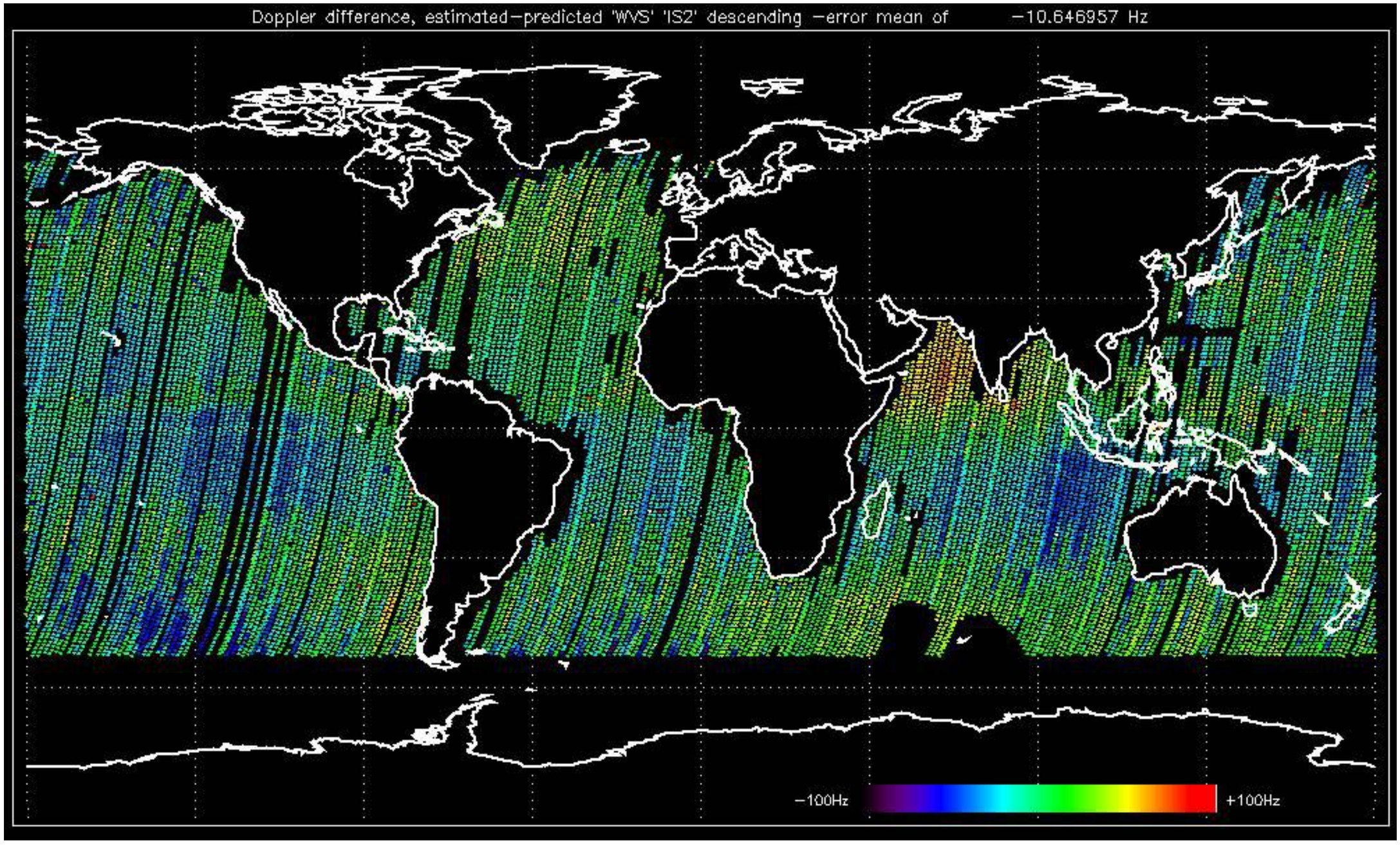

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.071511 Hz
−100Hz
+100Hz

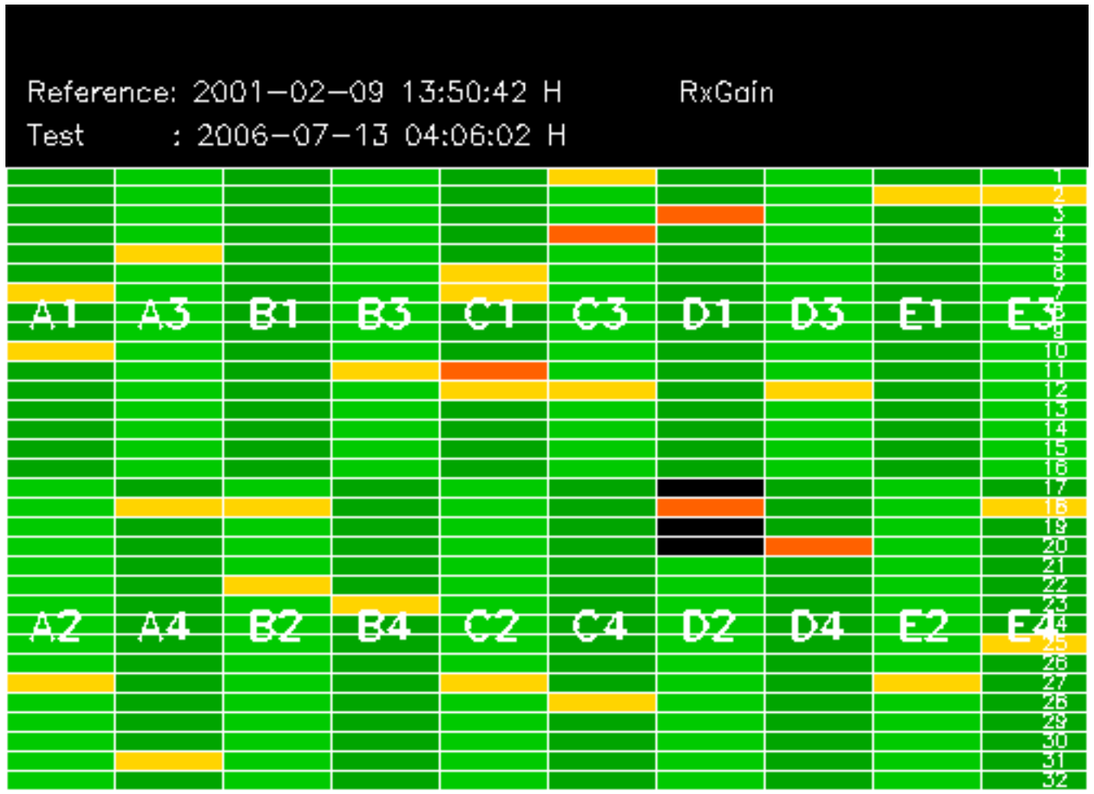

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -7.6640661 Hz
-100Hz
+100Hz

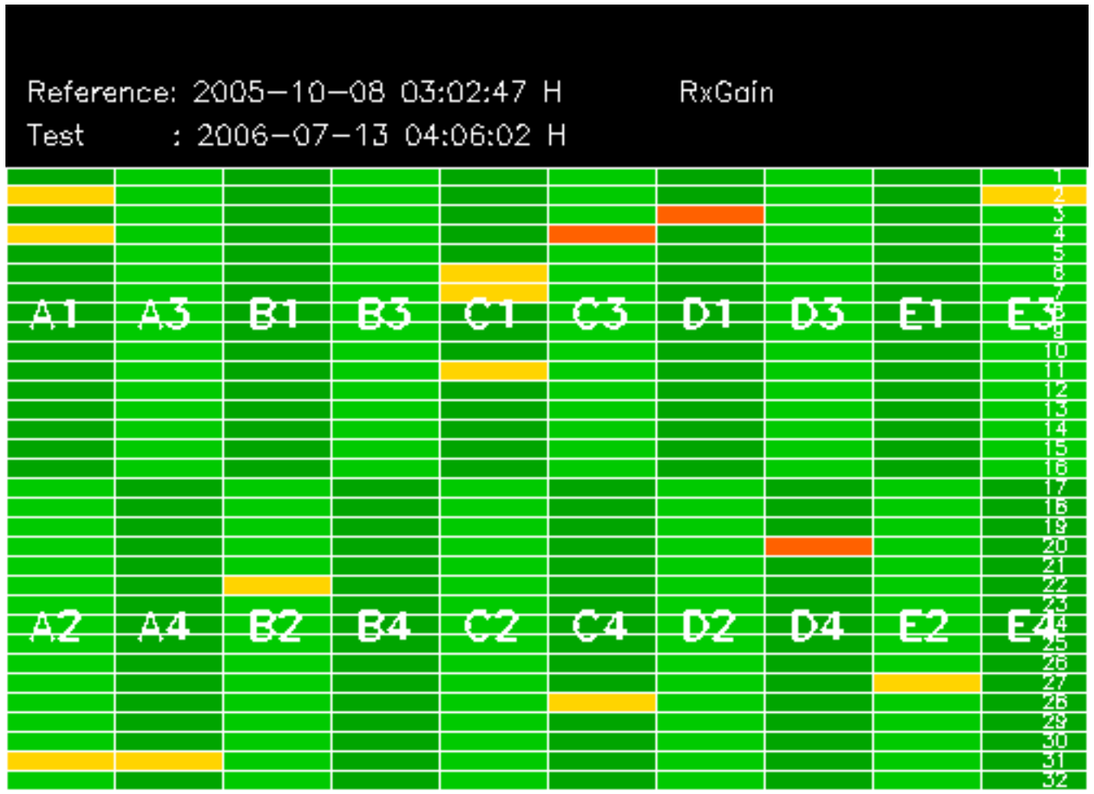

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −2.2741670 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −10.646957 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-07-13 04:06:02 H
RxGain
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 : 2006-07-13 04:06:02 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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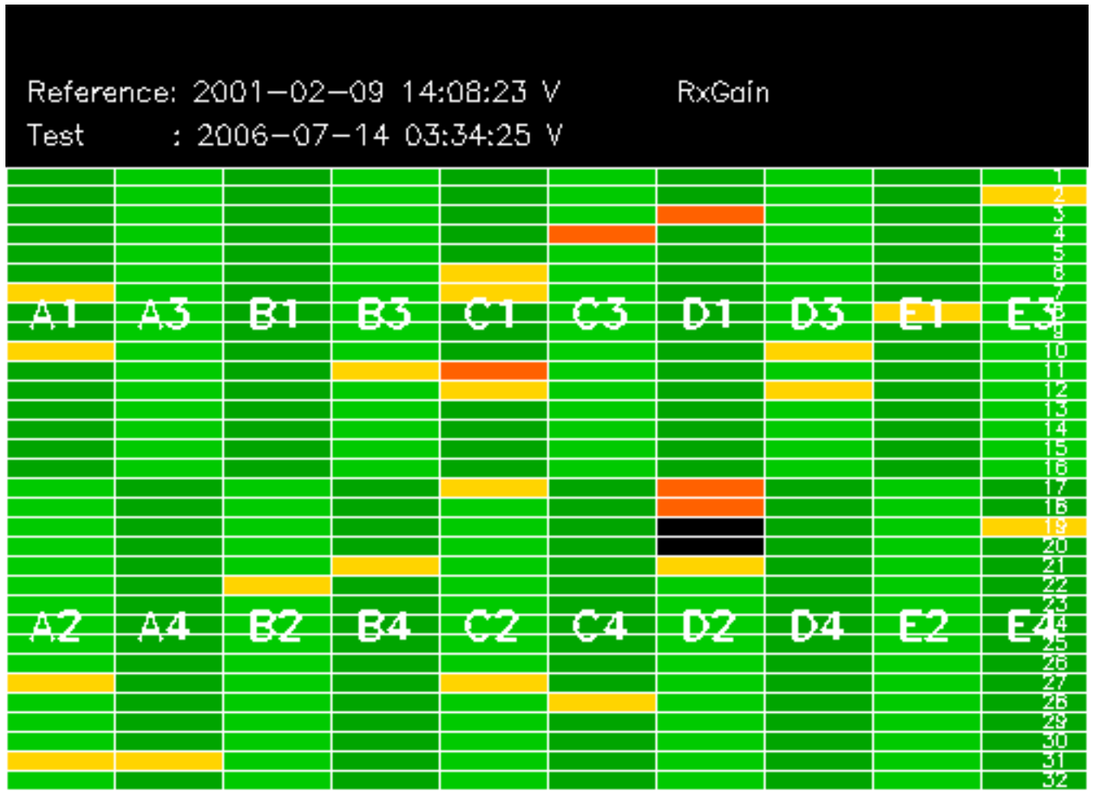
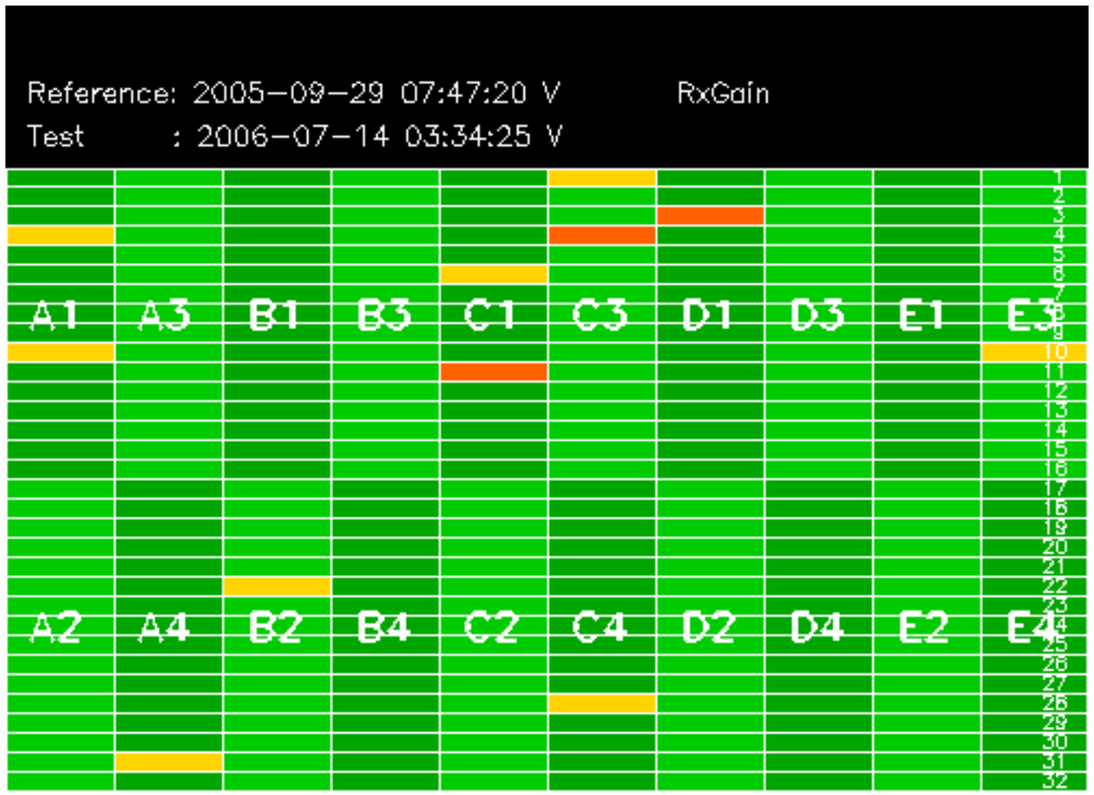
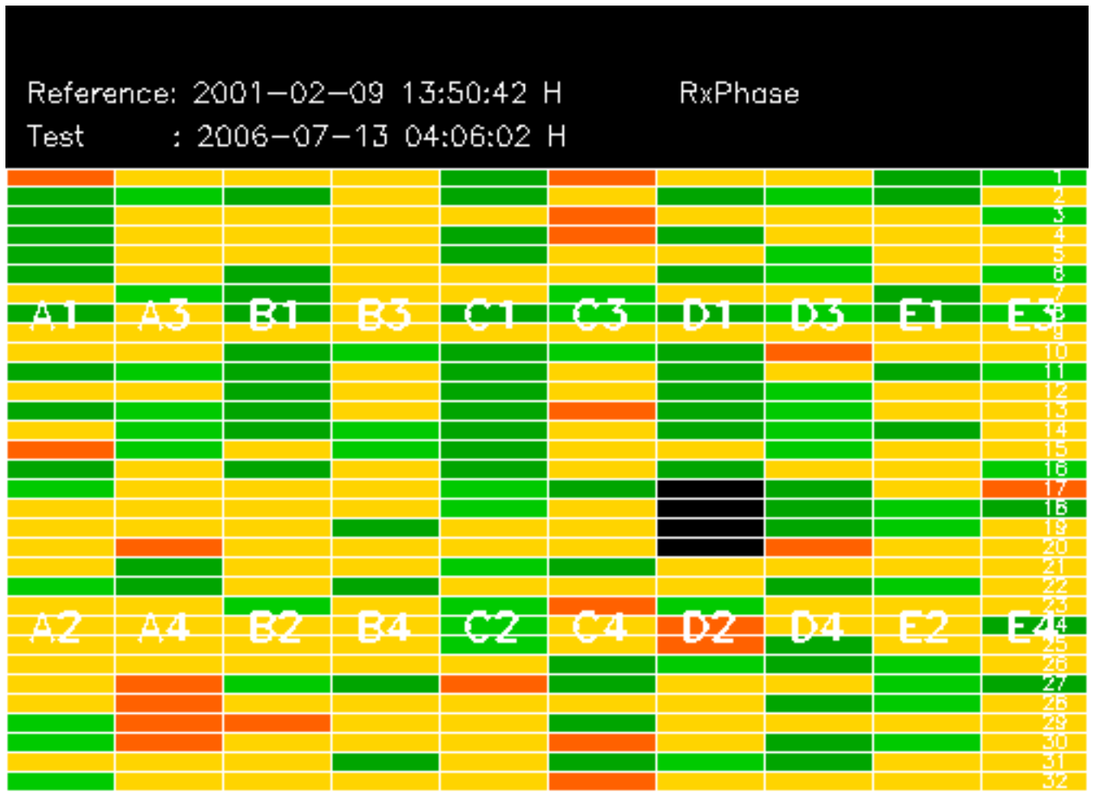
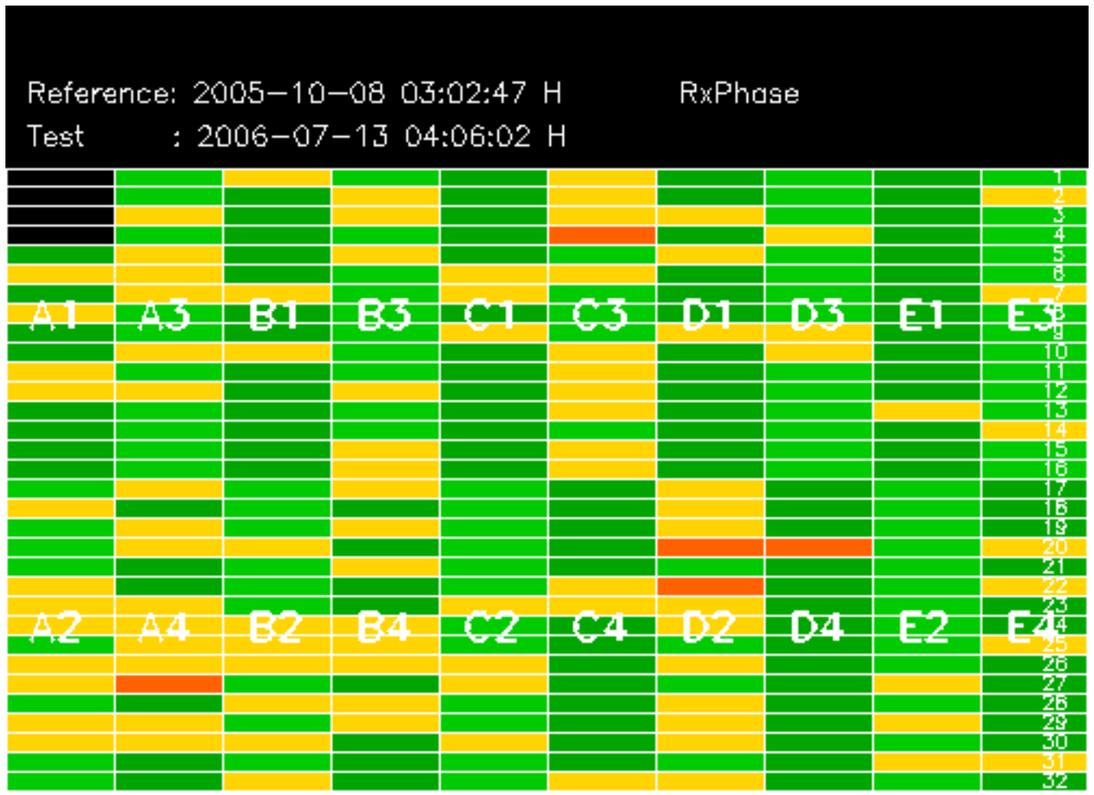

Reference: 2001-02-09 14:08:23 V
Test : 2006-07-14 03:34:25 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-07-14 03:34:25 V
RxGain
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 : 2006-07-13 04:06:02 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
RxPhase
Test : 2006-07-13 04:06:02 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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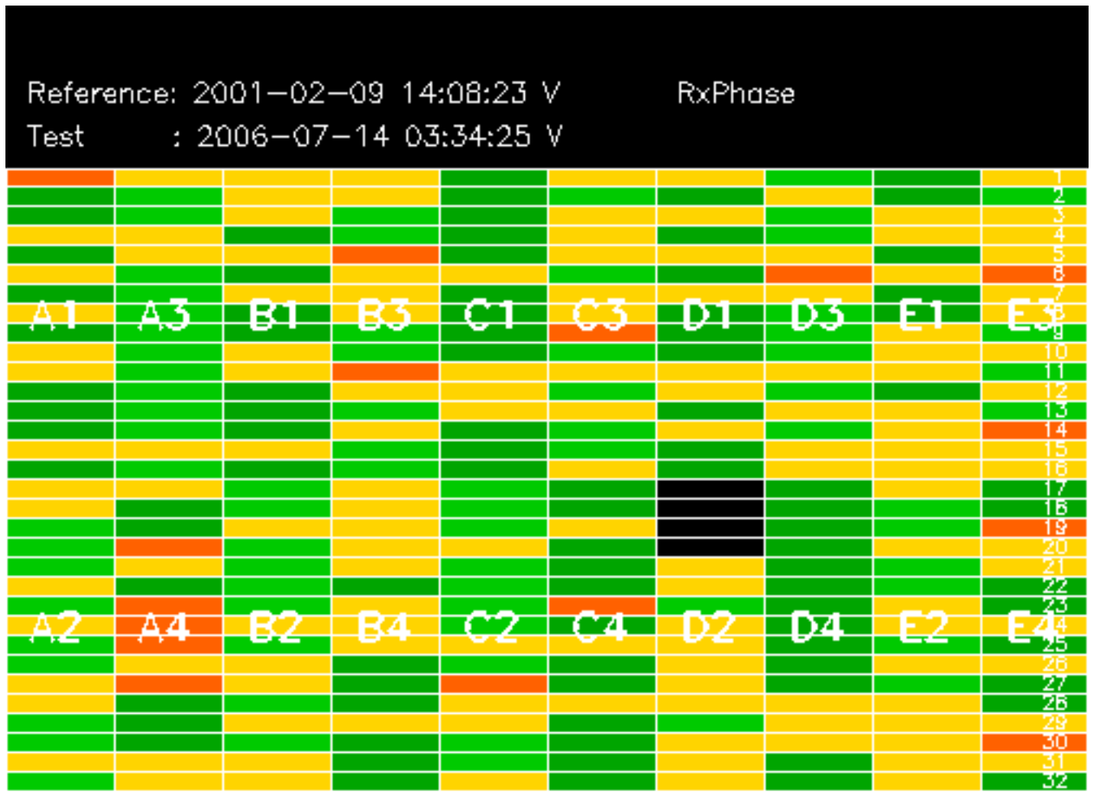
Reference: 2001-02-09 14:08:23 V
Test : 2006-07-14 03:34:25 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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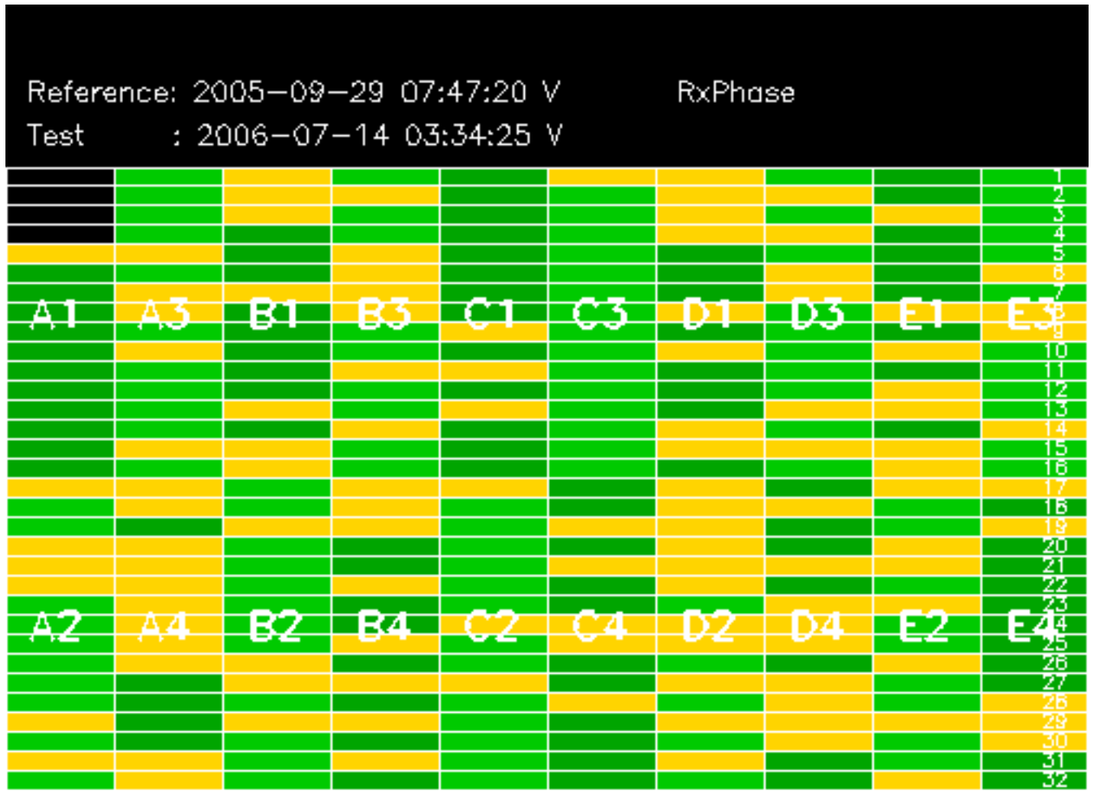
Reference: 2005-09-29 07:47:20 V
Test : 2006-07-14 03:34:25 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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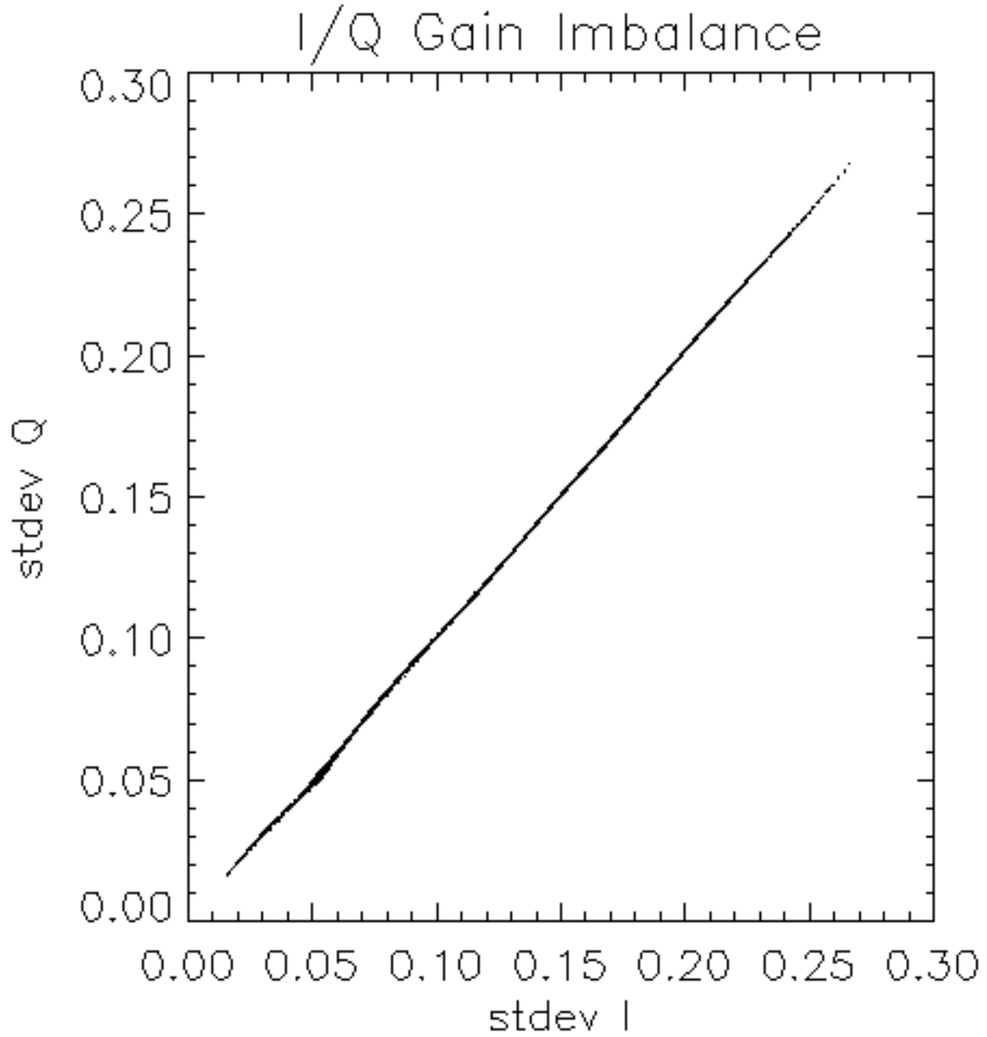
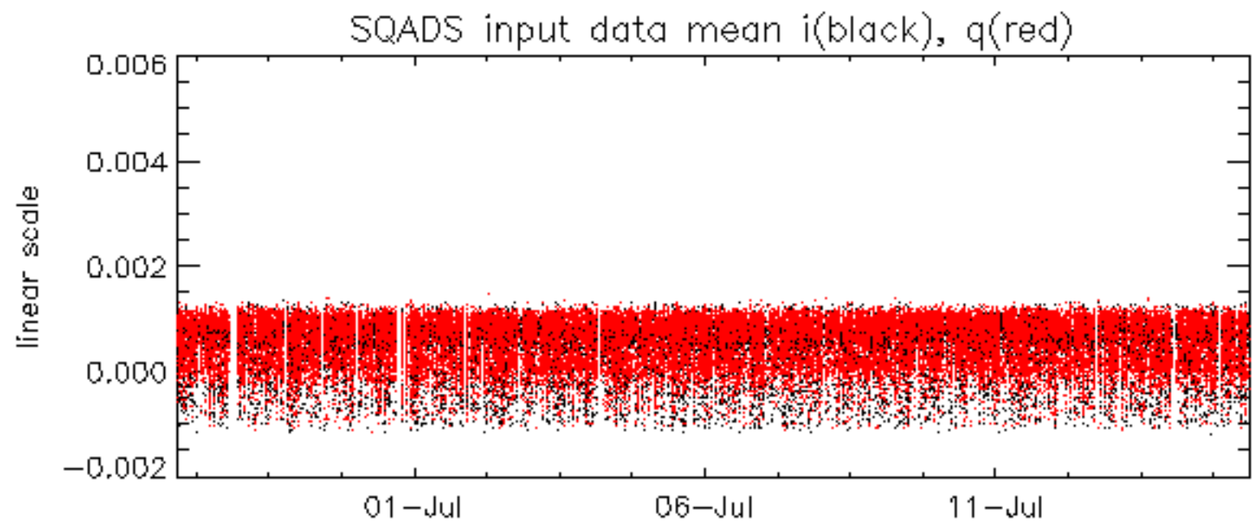
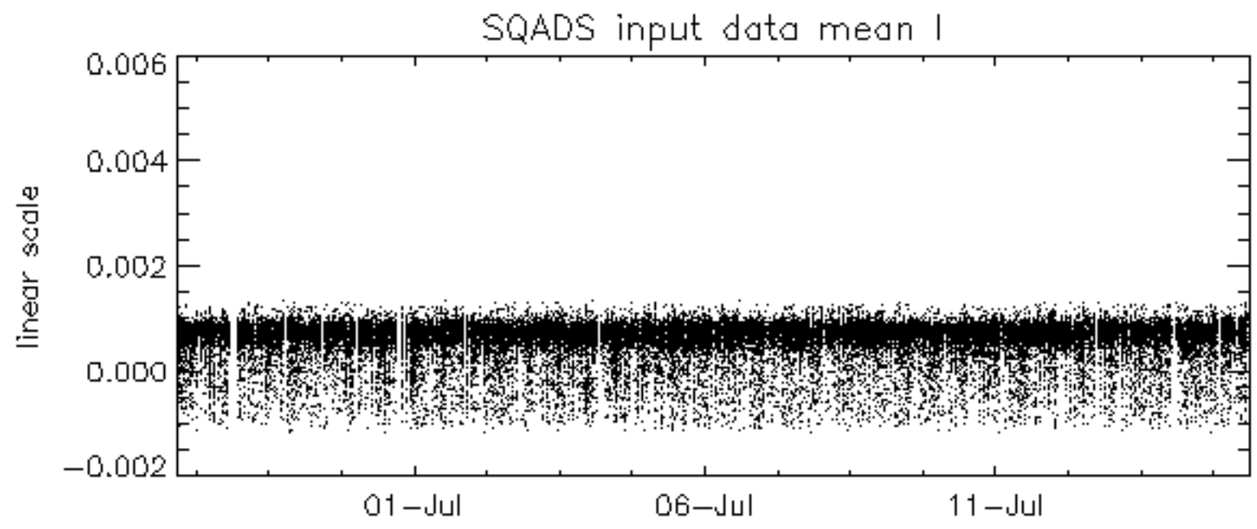
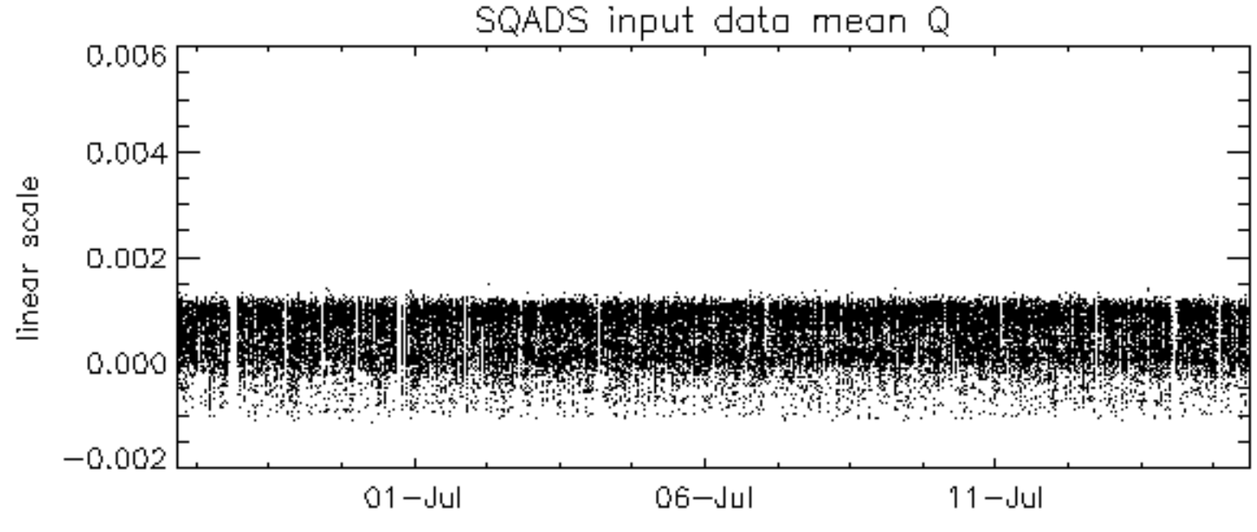
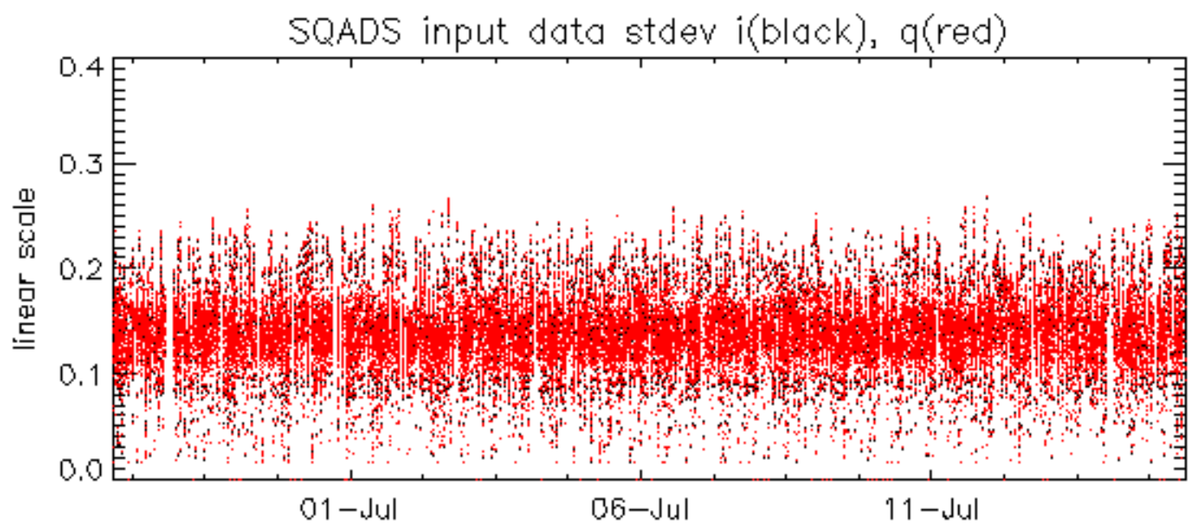
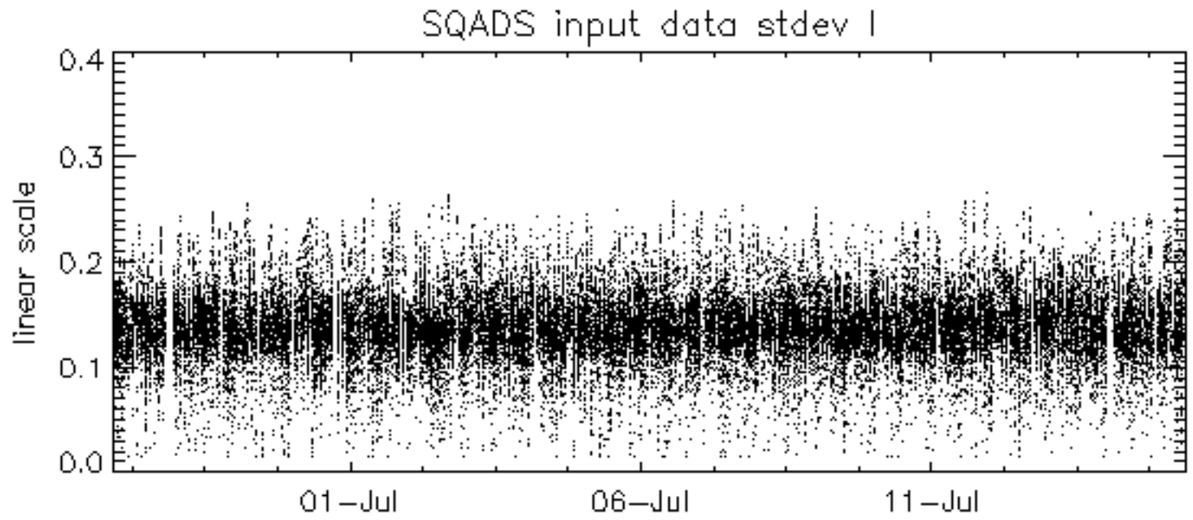

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

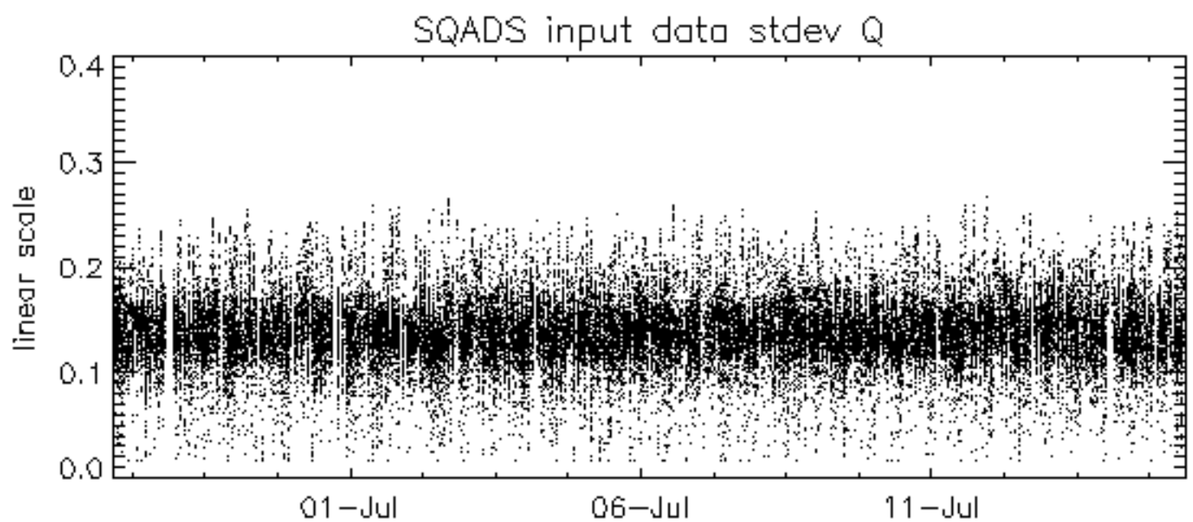

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Jul
06−Jul
11−Jul

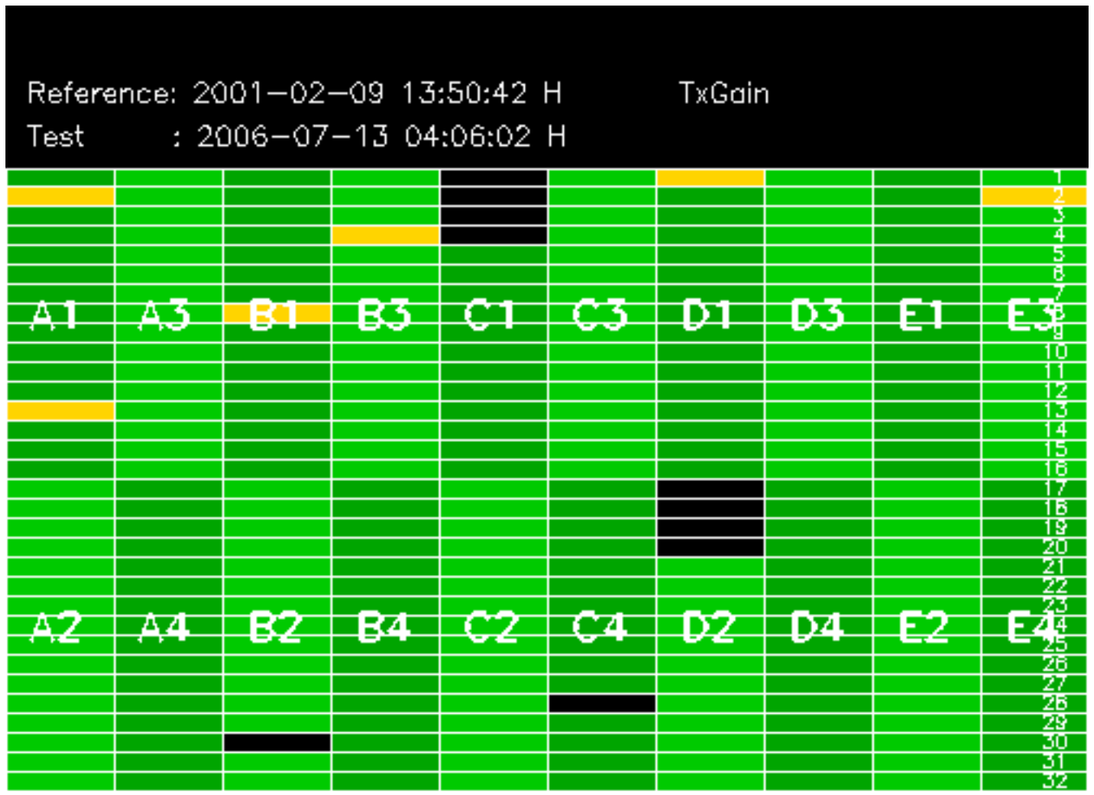

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Jul
06−Jul
11−Jul


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
01−Jul
06−Jul
11−Jul


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
01−Jul
06−Jul
11−Jul


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
01−Jul
06−Jul
11−Jul


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
01−Jul
06−Jul
11−Jul


Reference: 2001-02-09 13:50:42 H
Test : 2006-07-13 04:06:02 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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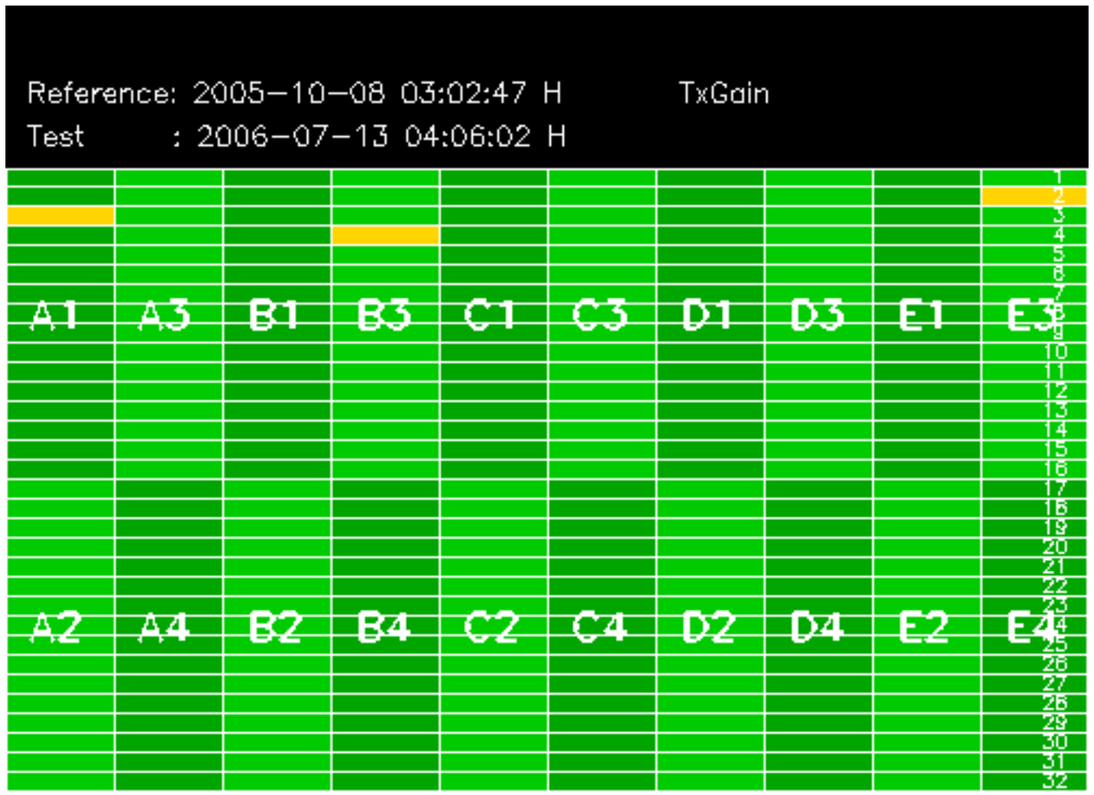
Reference: 2005-10-08 03:02:47 H
Test : 2006-07-13 04:06:02 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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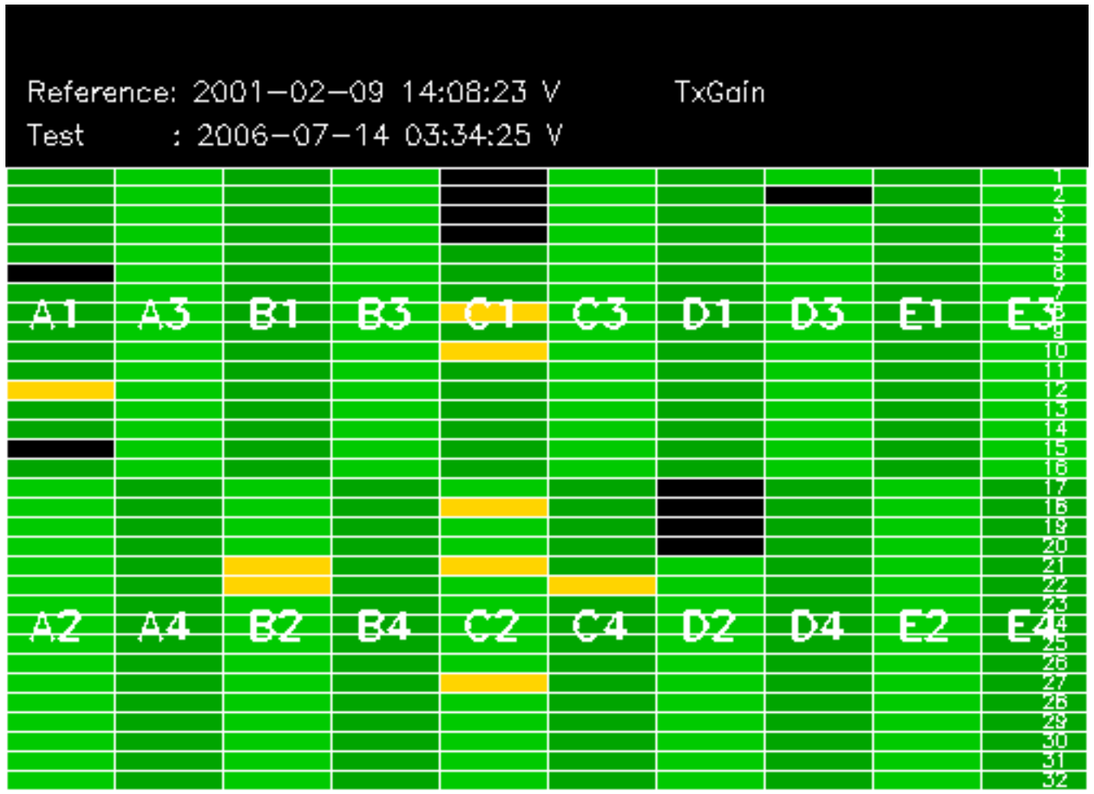
Reference: 2001-02-09 14:08:23 V
Test : 2006-07-14 03:34:25 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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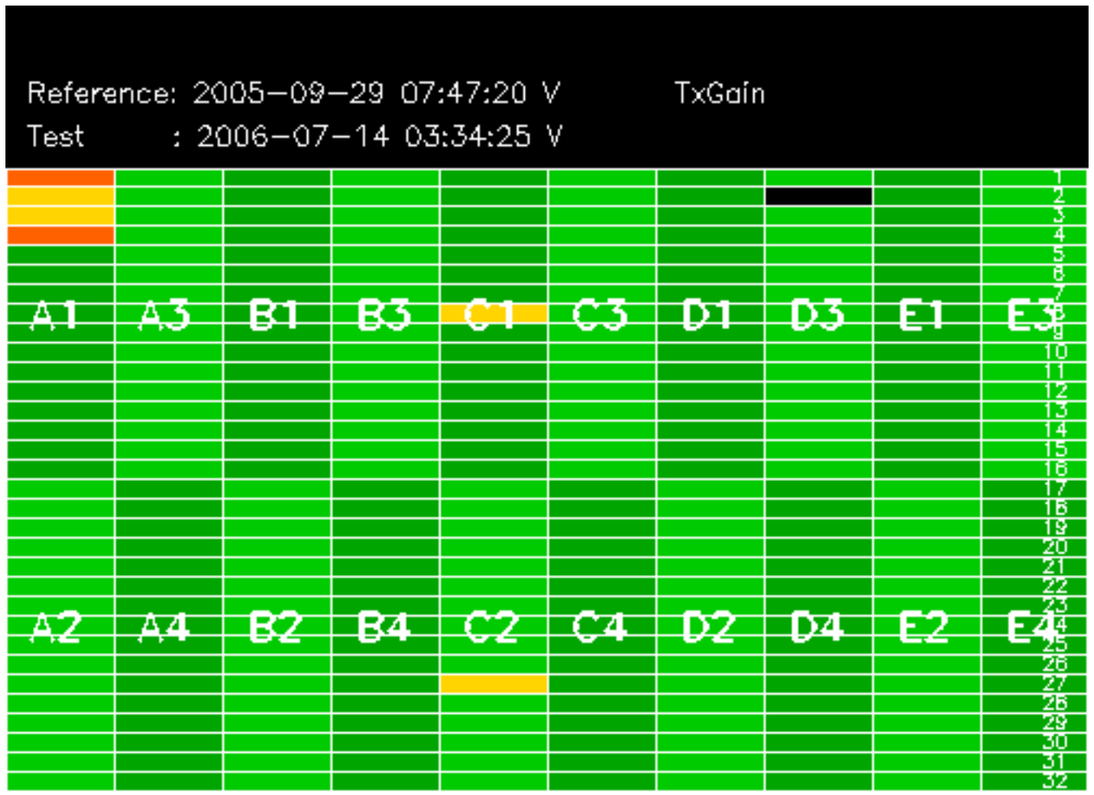
Reference: 2005-09-29 07:47:20 V
Test : 2006-07-14 03:34:25 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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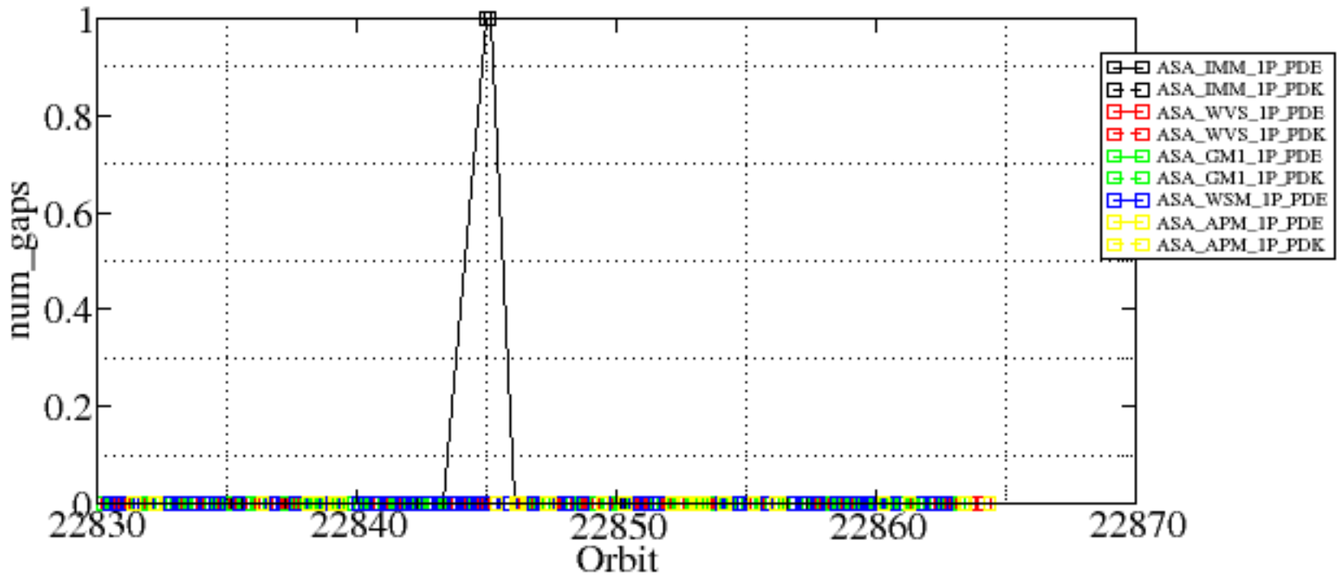
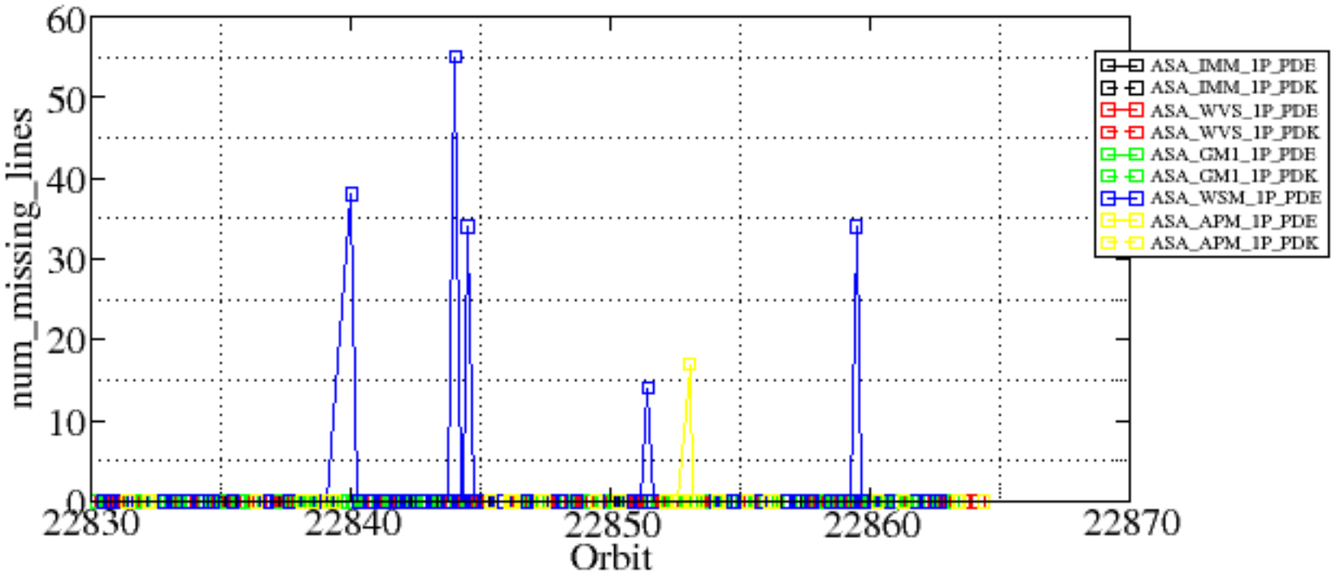
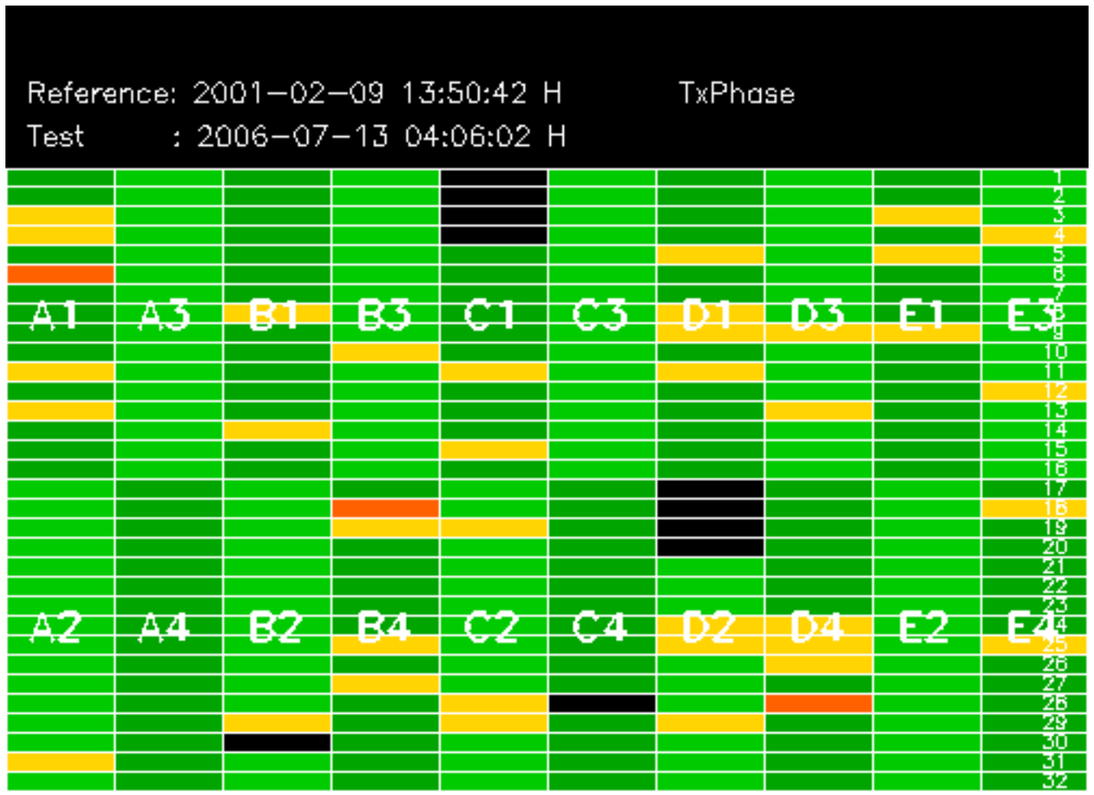
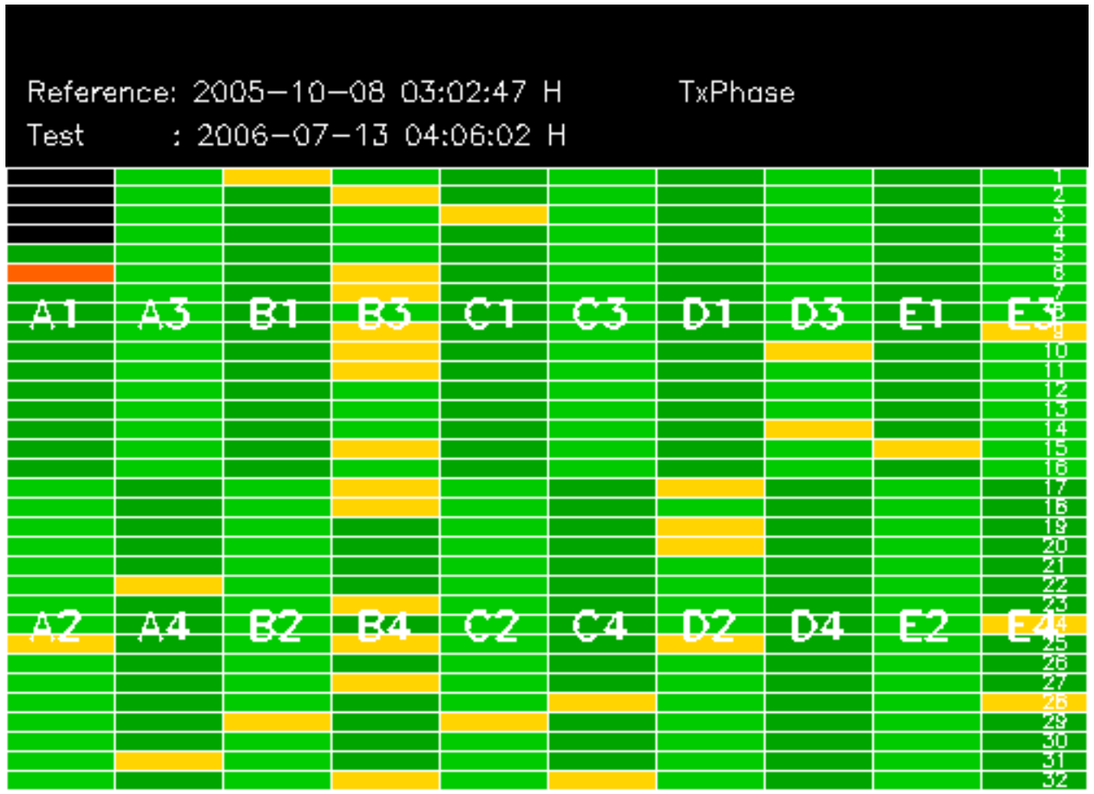
Summary of analysis for the last 3 days 2006071[345]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20060714_004241_000001742049_00245_22844_0772.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060714_005914_000000452049_00246_22845_0771.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060713_162646_000001032049_00241_22840_2889.N1 </td> <td>0 </td> <td>38 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060713_230852_000001032049_00245_22844_2962.N1 </td> <td>0 </td> <td>55 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060713_235456_000003302049_00245_22844_2976.N1 </td> <td>0 </td> <td>34 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060714_113456_000000852049_00252_22851_3060.N1 </td> <td>0 </td> <td>14 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20060715_010155_000001462049_00260_22859_3155.N1 </td> <td>0 </td> <td>34 </td></tr>
<tr> <td>ASA_APM_1PNPDE20060714_141717_000000732049_00254_22853_0606.N1 </td> <td>0 </td> <td>17 </td></tr>
</table>


num_gaps
1
0.8
0.6
0.4
0.2
0
22830
22840
22850
22860
22870
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_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
60
50
40
30
20
10
0
22830
22840
22850
22860
22870
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_APM_1P_PDE
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
Test : 2006-07-13 04:06:02 H
TxPhase
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
TxPhase
Test : 2006-07-13 04:06:02 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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32


Reference: 2001-02-09 14:08:23 V
Test : 2006-07-14 03:34:25 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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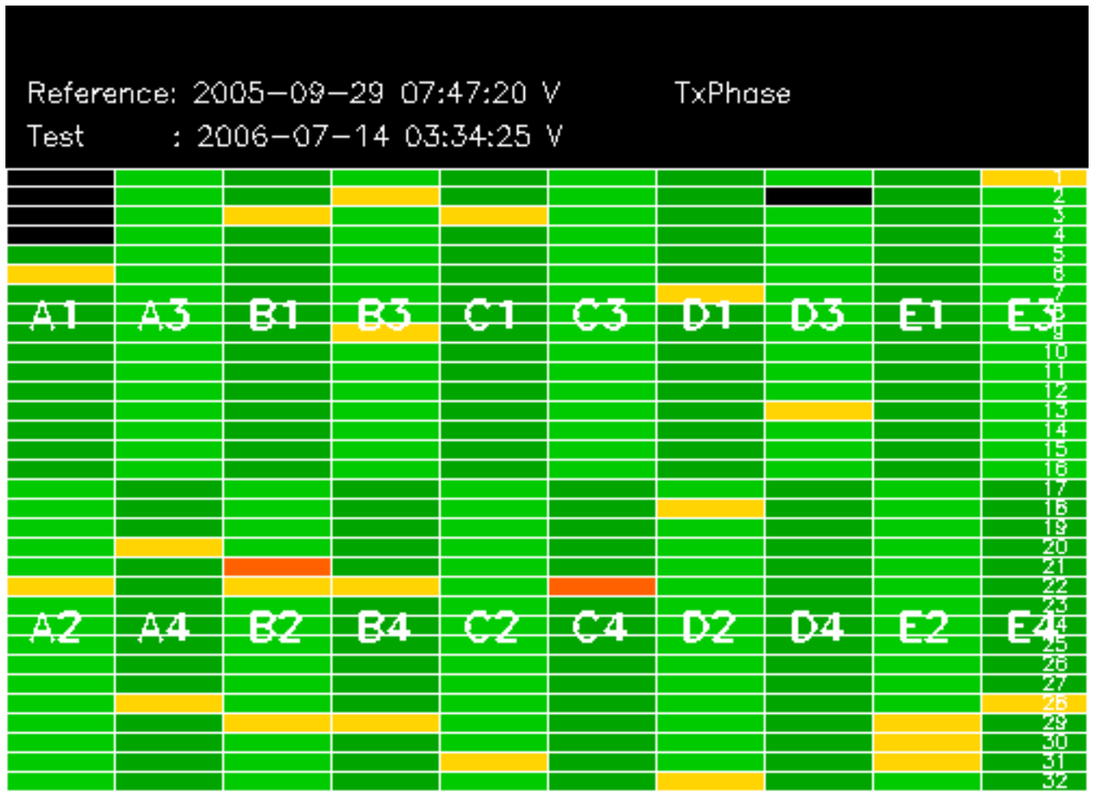
Reference: 2005-09-29 07:47:20 V
TxPhase
Test : 2006-07-14 03:34:25 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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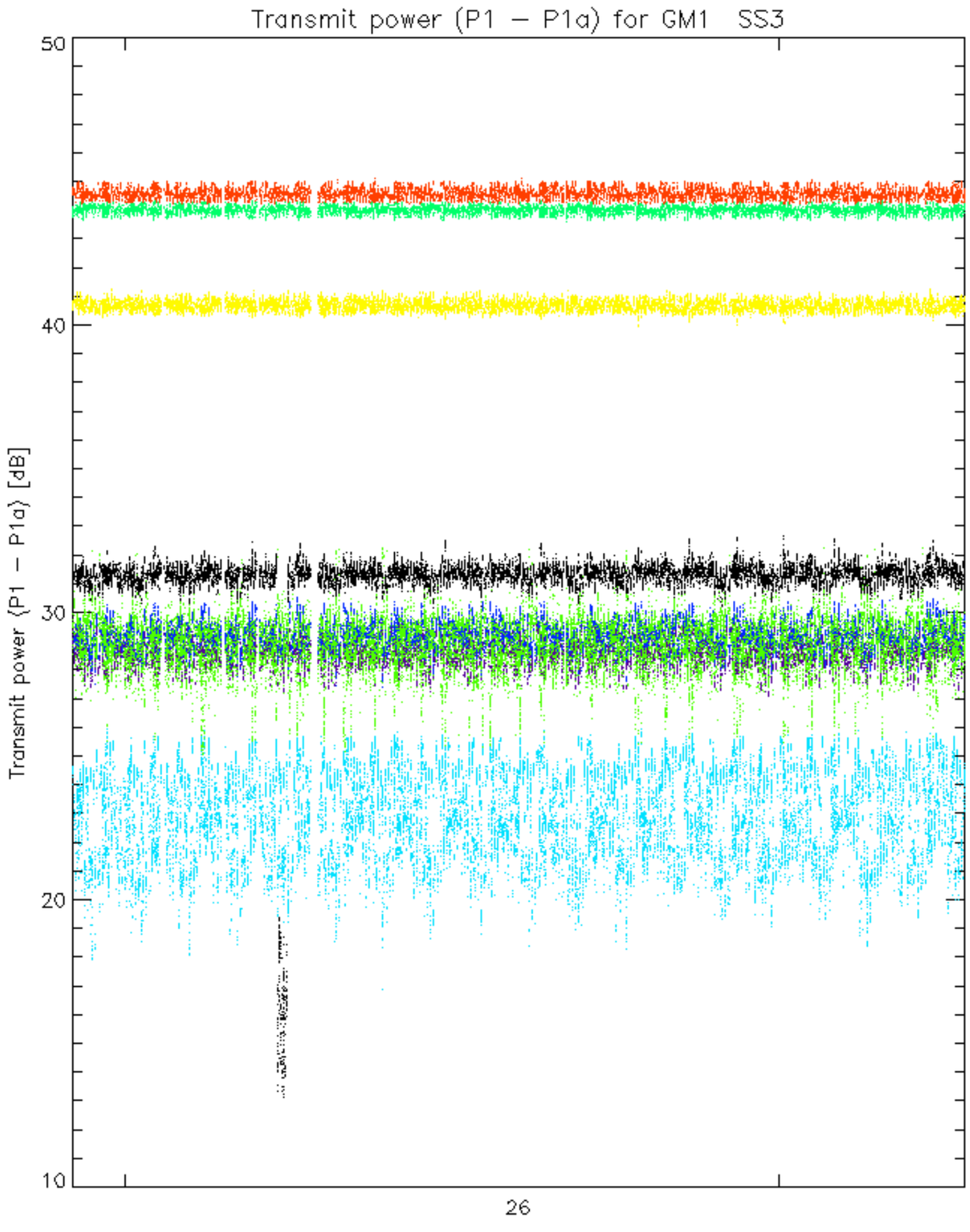
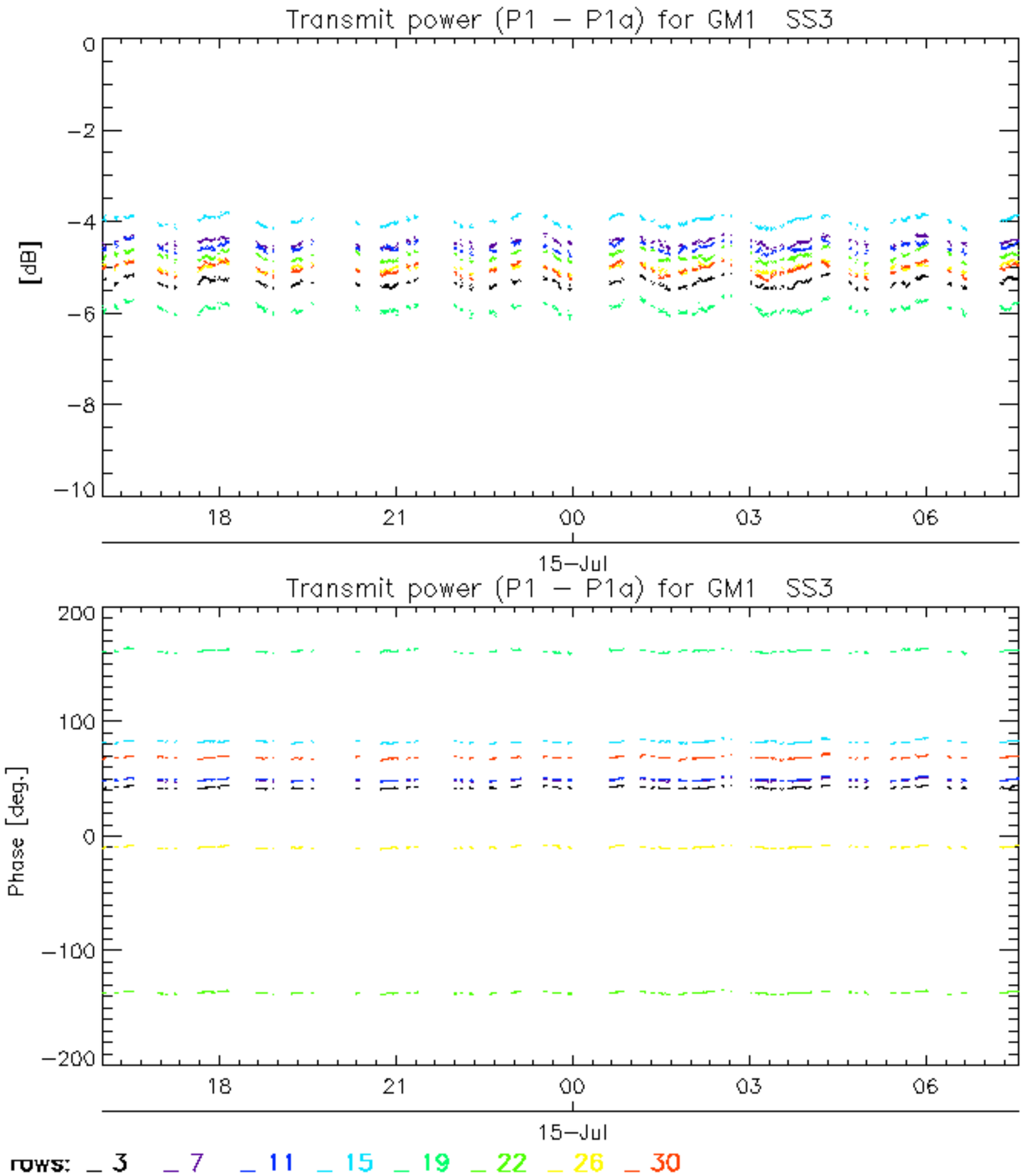
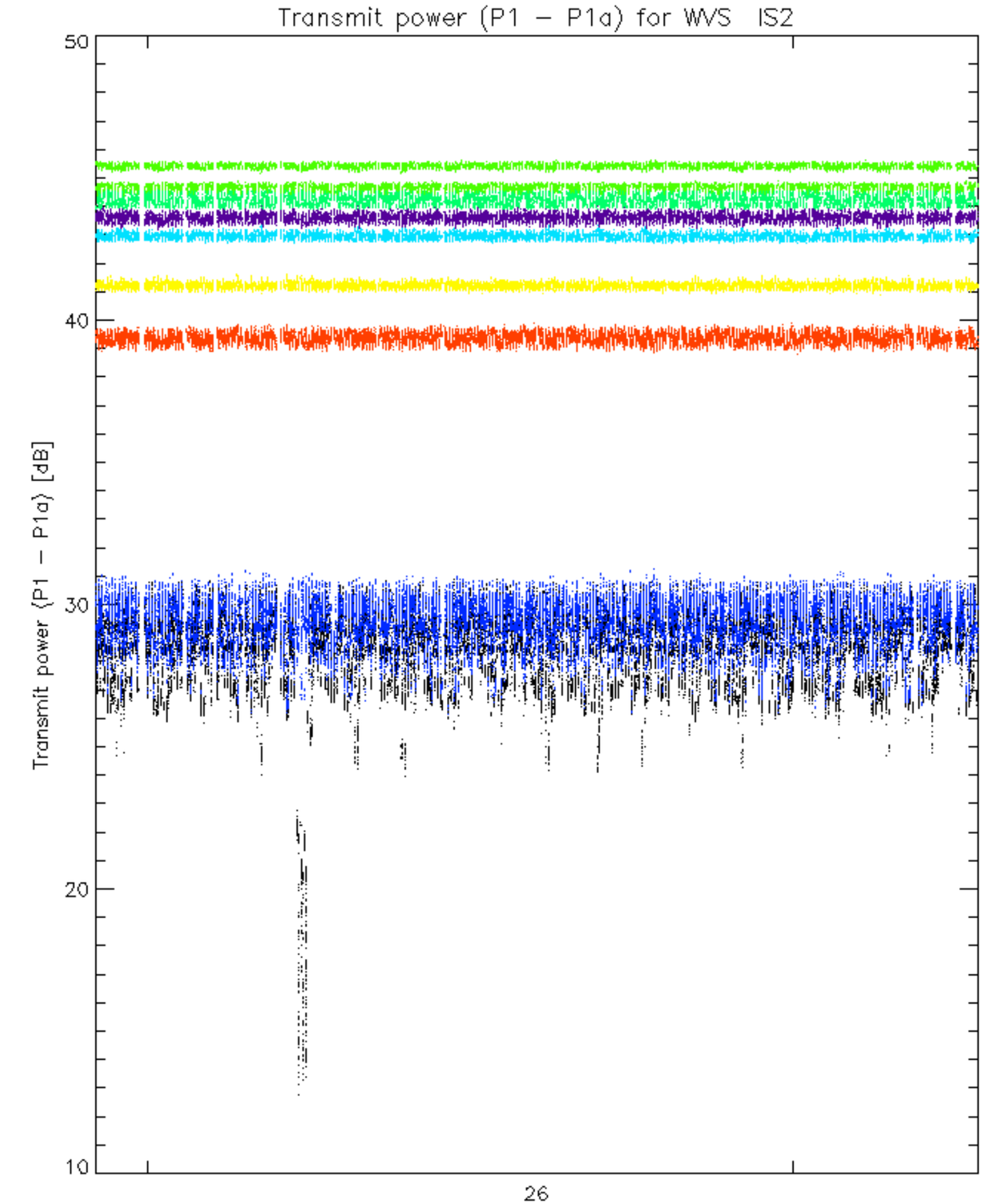
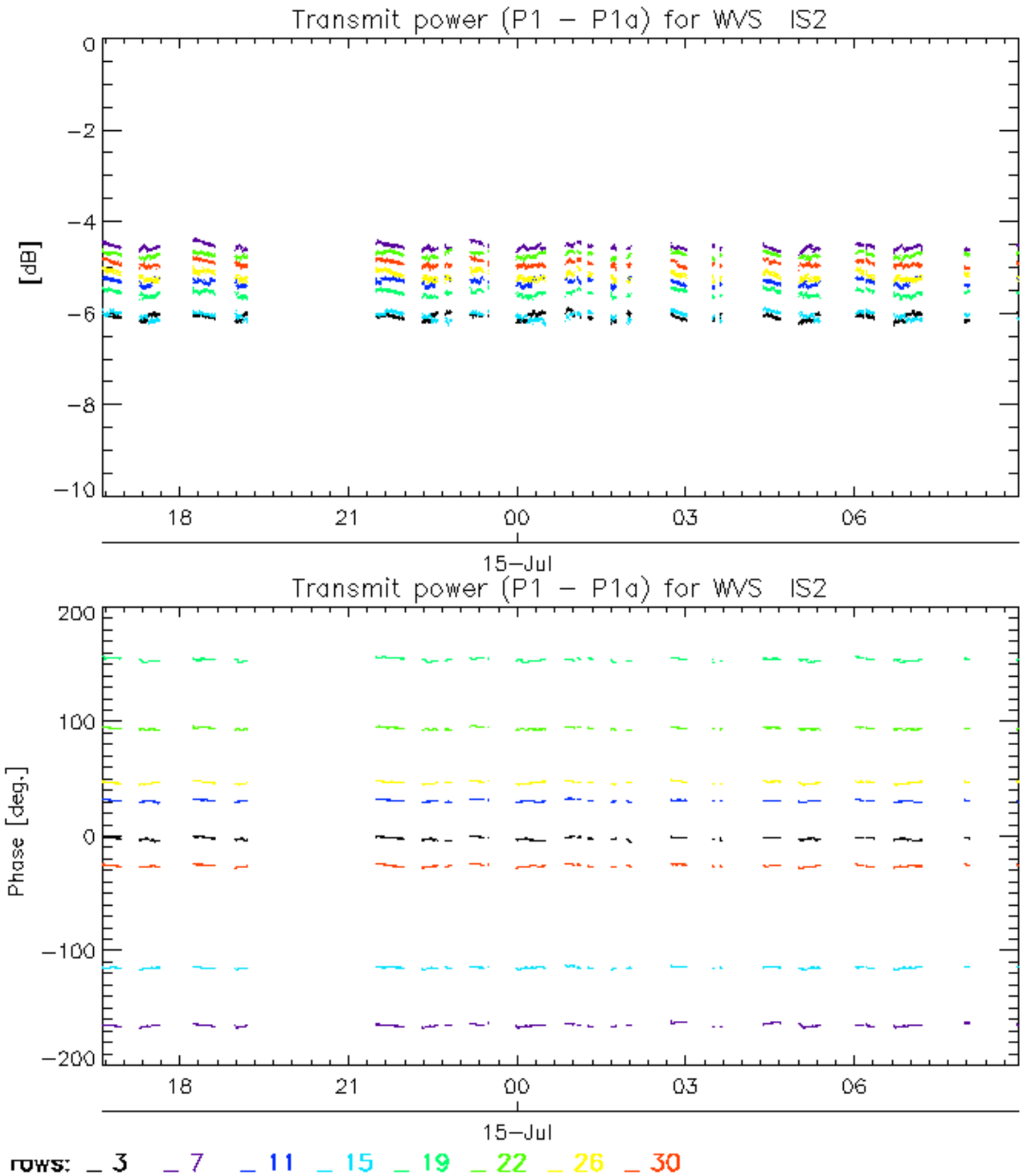

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
26
rows: 3 7 11 15 19 22 26 30


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


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

No unavailabilities during the reported period.