PRELIMINARY REPORT OF 060828

last update on Mon Aug 28 16:38:52 GMT 2006

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

1 - Introduction

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

2 - Summary

2.1 - Instrument Unavailability

No unavailabilities during the reported period.

2.2 - Auxiliary files

Summary of the auxiliary files used from 2006-08-27 00:00:00 to 2006-08-28 16:38:52

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

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	24	42	16	7	0
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	24	42	16	7	0
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	24	42	16	7	0
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	24	42	16	7	0

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	25	62	69	15	44
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	25	62	69	15	44
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	25	62	69	15	44
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	25	62	69	15	44

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	20060827 053212
H	20060826 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	-3.943232	0.009893	0.002490
7	P1	-3.080790	0.051272	0.102161
11	P1	-4.086047	0.063500	0.054898
15	P1	-6.201892	0.093933	0.012680
19	P1	-3.460522	0.009993	-0.089636
22	P1	-4.561243	0.024550	0.015456
26	P1	-3.925622	0.019506	-0.033723
30	P1	-5.759356	0.026172	0.026194
3	P1	-16.542549	0.259795	-0.018902
7	P1	-16.860876	0.645983	0.939628
11	P1	-16.856344	0.300797	0.226564
15	P1	-12.986968	0.155480	0.139078
19	P1	-14.518983	0.055736	-0.071535
22	P1	-15.866677	0.541648	0.320152
26	P1	-15.154587	0.213636	-0.156223
30	P1	-17.029953	0.336694	0.203613

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.876101	0.083565	0.093585
7	P2	-21.862705	0.099132	-0.003452
11	P2	-15.754219	0.113683	0.036428
15	P2	-7.105534	0.097167	0.023891
19	P2	-9.117695	0.090568	0.009394
22	P2	-18.138586	0.084548	0.027437
26	P2	-16.399446	0.091299	-0.002952
30	P2	-19.483088	0.090466	0.035967

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.172924	0.003590	-0.005801
7	P3	-8.172924	0.003590	-0.005801
11	P3	-8.172924	0.003590	-0.005801
15	P3	-8.172924	0.003590	-0.005801
19	P3	-8.172924	0.003590	-0.005801
22	P3	-8.172924	0.003590	-0.005801
26	P3	-8.172975	0.003589	-0.005853
30	P3	-8.172975	0.003589	-0.005853

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	-3.831804	0.021325	-0.012984
7	P1	-2.496844	0.285293	0.327765
11	P1	-2.895029	0.142010	0.017078
15	P1	-3.647484	0.147376	-0.046991
19	P1	-3.431421	0.025205	-0.001524
22	P1	-5.079287	0.034035	0.028701
26	P1	-5.870180	0.023996	-0.021196
30	P1	-5.188546	0.044697	0.049470
3	P1	-11.625724	0.066369	-0.007142
7	P1	-9.916701	0.188594	0.192993
11	P1	-10.291727	0.083008	-0.065675
15	P1	-10.808607	0.173385	-0.150935
19	P1	-15.552402	0.527412	0.110766
22	P1	-20.873383	1.754420	0.311941

26	P1	-16.121975	0.409561	0.264968
30	P1	-17.961529	0.727023	0.129942

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.478281	0.083963	0.126278
7	P2	-22.268324	0.200816	0.154152
11	P2	-10.956208	0.055722	0.146193
15	P2	-4.883480	0.042982	0.035328
19	P2	-6.858435	0.040728	0.015885
22	P2	-8.183601	0.061976	0.028620
26	P2	-24.170095	0.128564	0.013654
30	P2	-21.972828	0.078738	0.042571

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.014316	0.003668	-0.013008
7	P3	-8.014261	0.003669	-0.013072
11	P3	-8.014373	0.003668	-0.012924
15	P3	-8.014364	0.003675	-0.012939
19	P3	-8.014392	0.003683	-0.013491
22	P3	-8.014521	0.003660	-0.012852
26	P3	-8.014314	0.003657	-0.013057
30	P3	-8.014254	0.003670	-0.012885

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	0.000552414
	stdev	1.77717e-07
MEAN Q	mean	0.000532187
	stdev	2.16156e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136249
	stdev	0.00107929
STDEV Q	mean	0.136594
	stdev	0.00109553

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006082[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_1PNPDE20060826_182649_000000352050_00371_23471_4533.N1	0	17
ASA_IMM_1PNPDE20060827_201454_000000372050_00386_23486_4727.N1	0	6
ASA_WSM_1PNPDK20060826_103050_000001472050_00366_23466_4387.N1	0	14

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

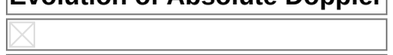
Evolution of unbiased Doppler error (Real - Expected)

Acsending

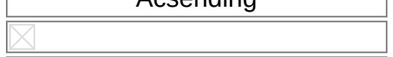
Descending

7.5 - Absolute Doppler for GM1

Evolution of Absolute Doppler



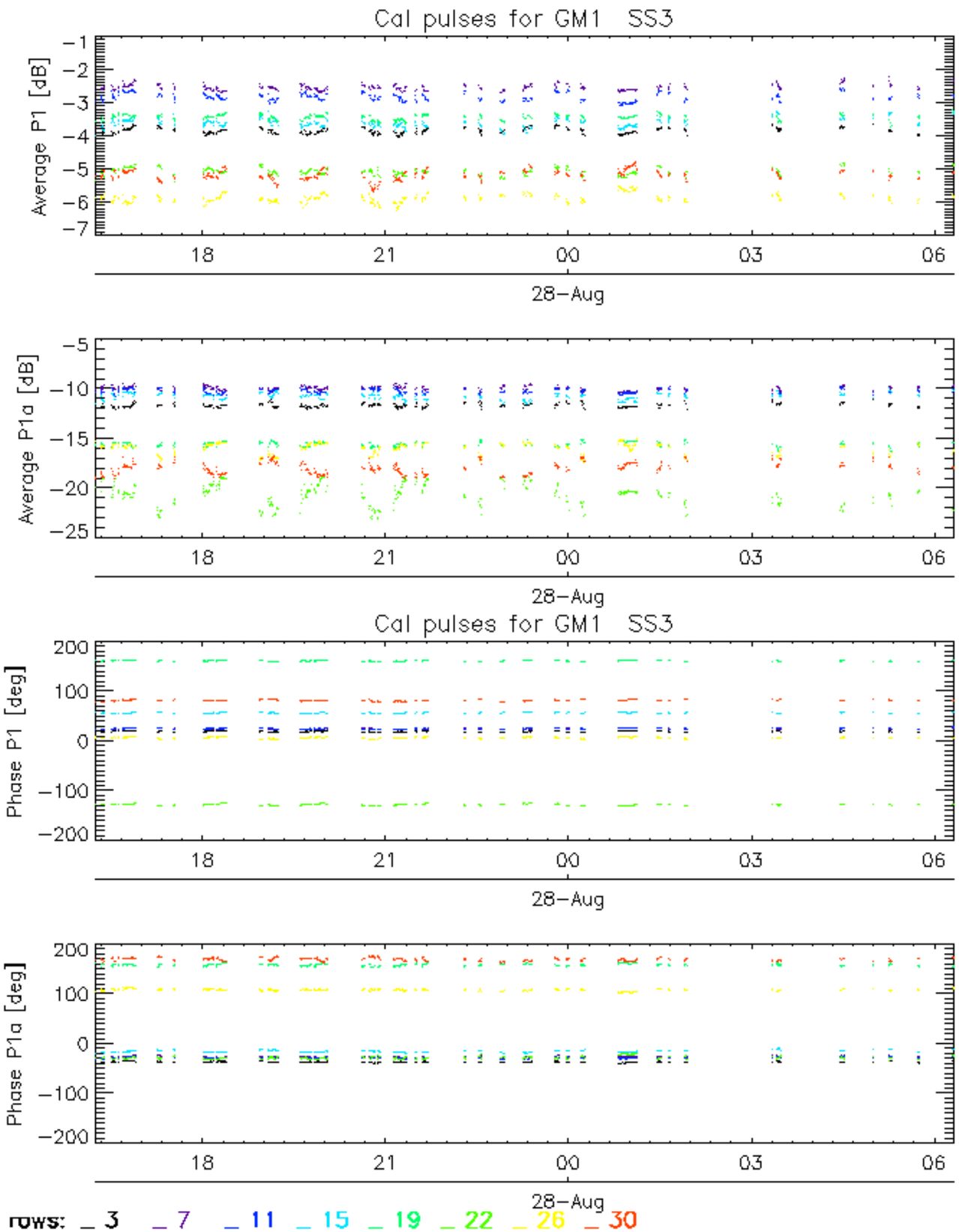
Acsending

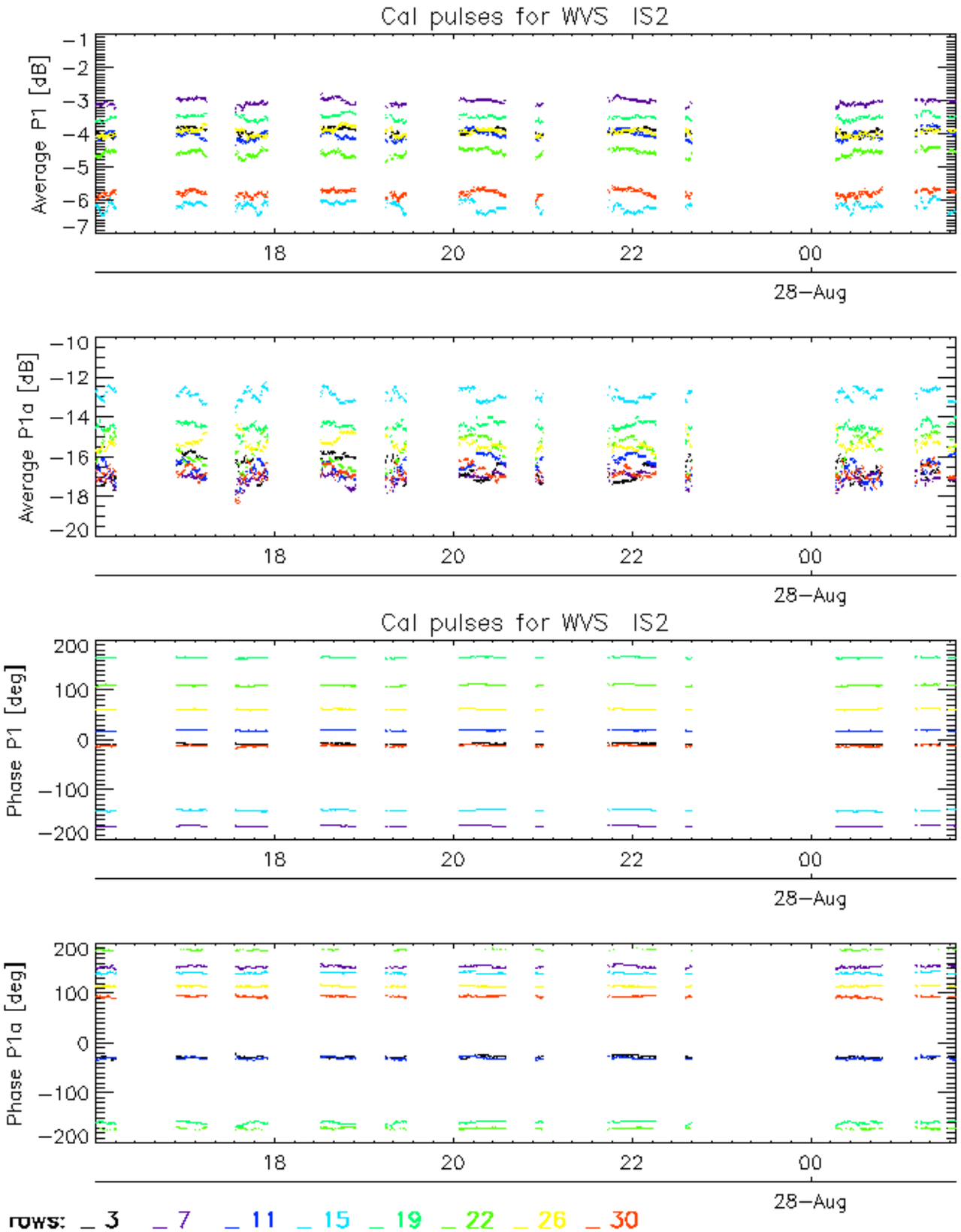


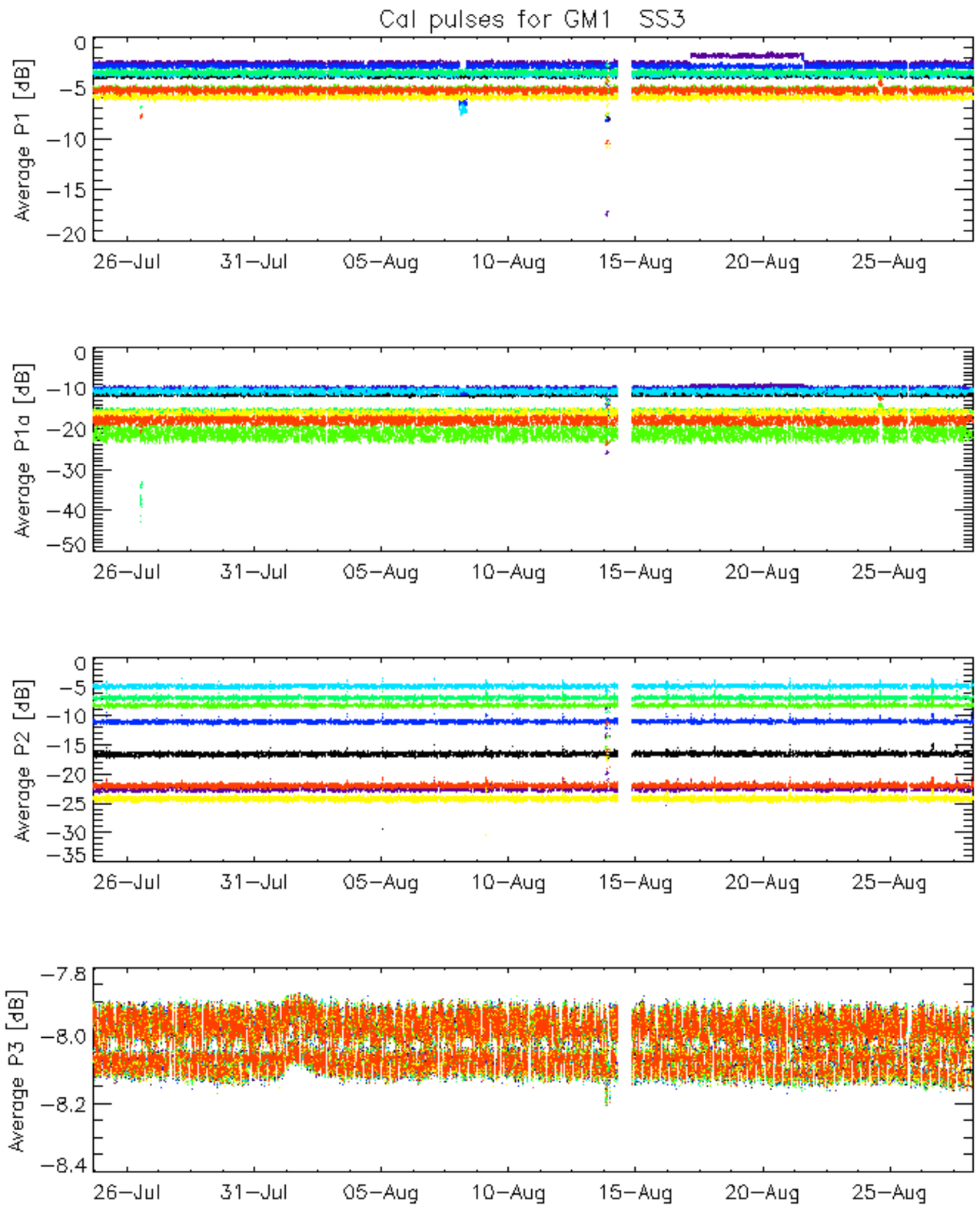
Descending

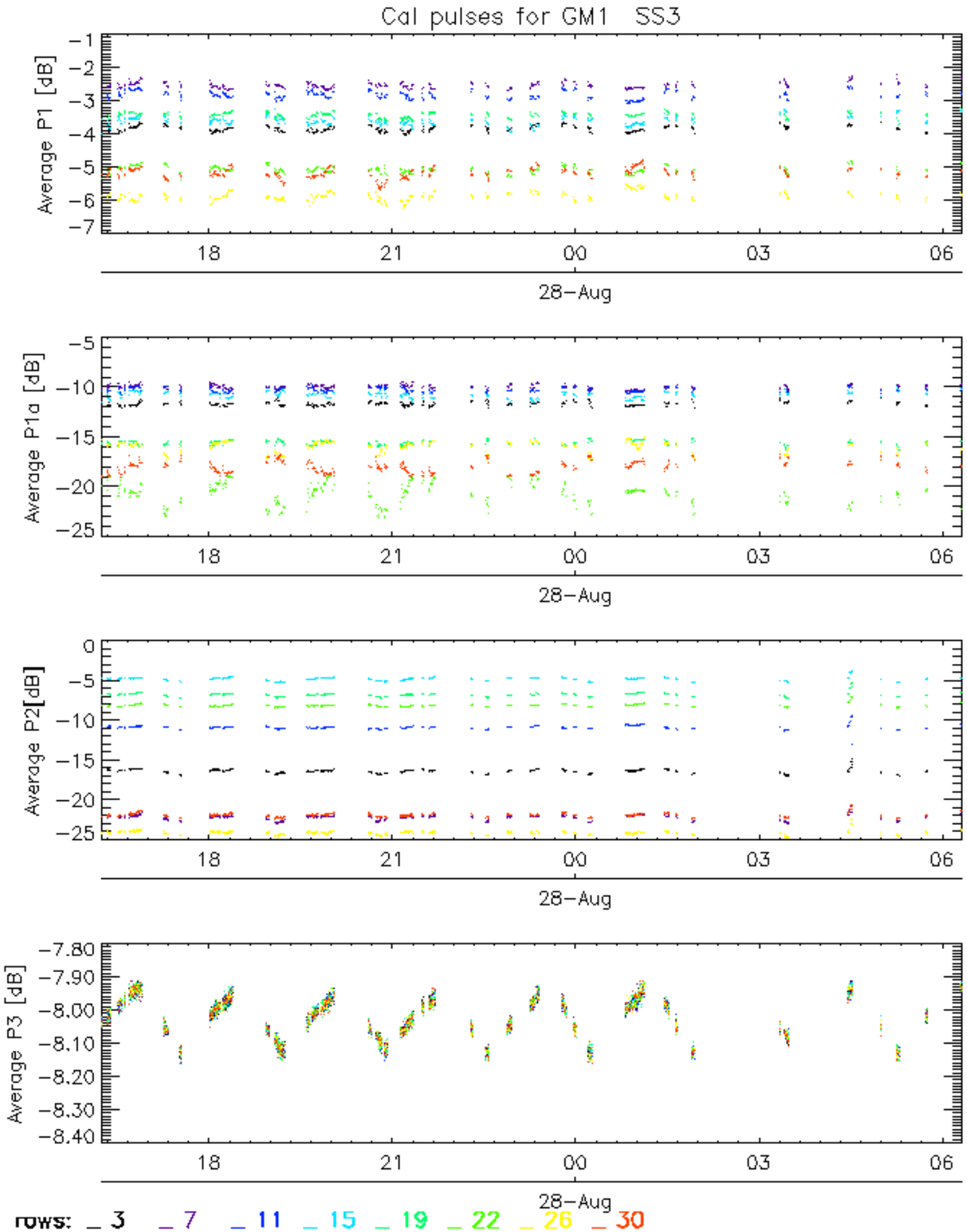
7.6 - Doppler evolution versus ANX for GM1

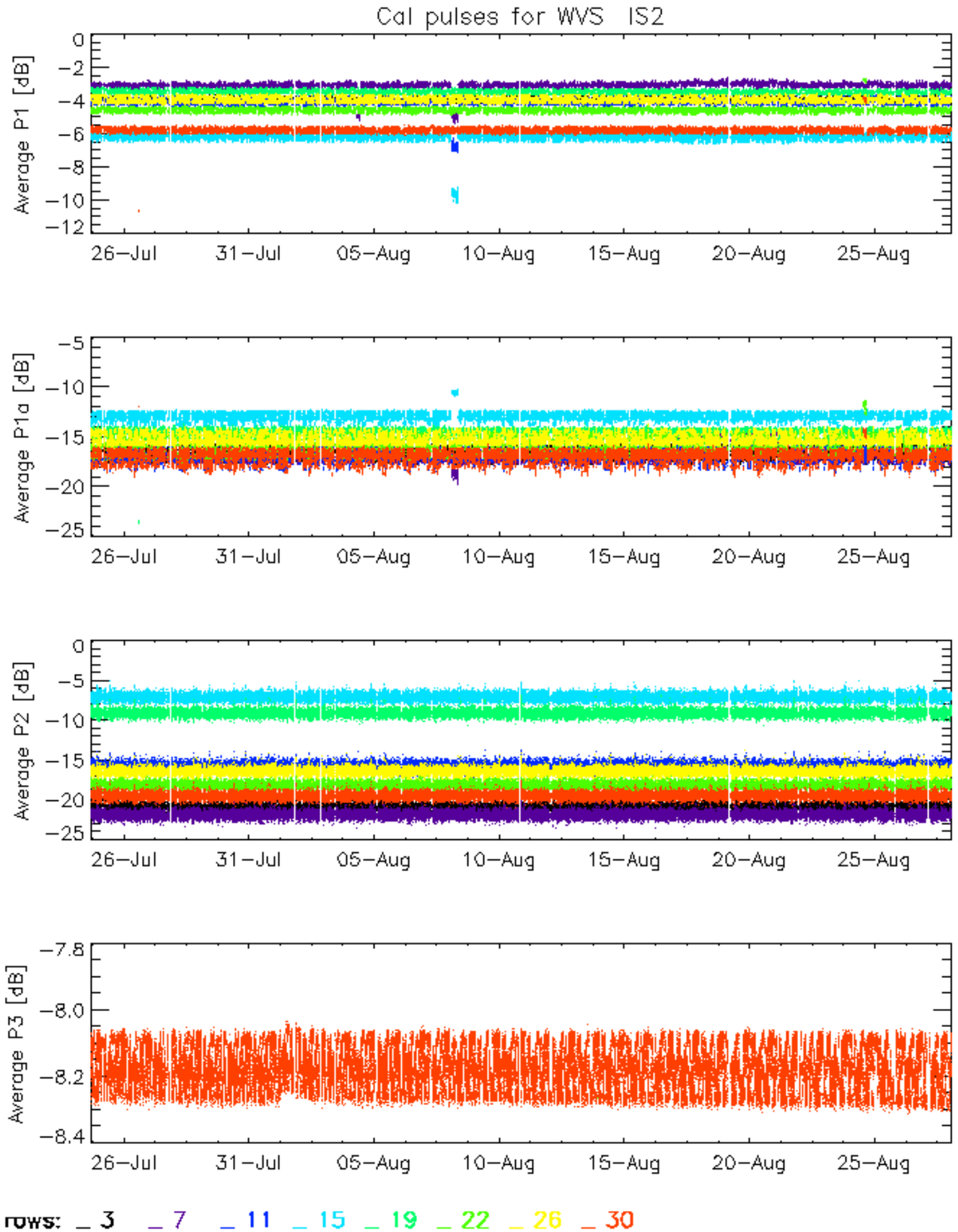
Evolution Doppler error versus ANX

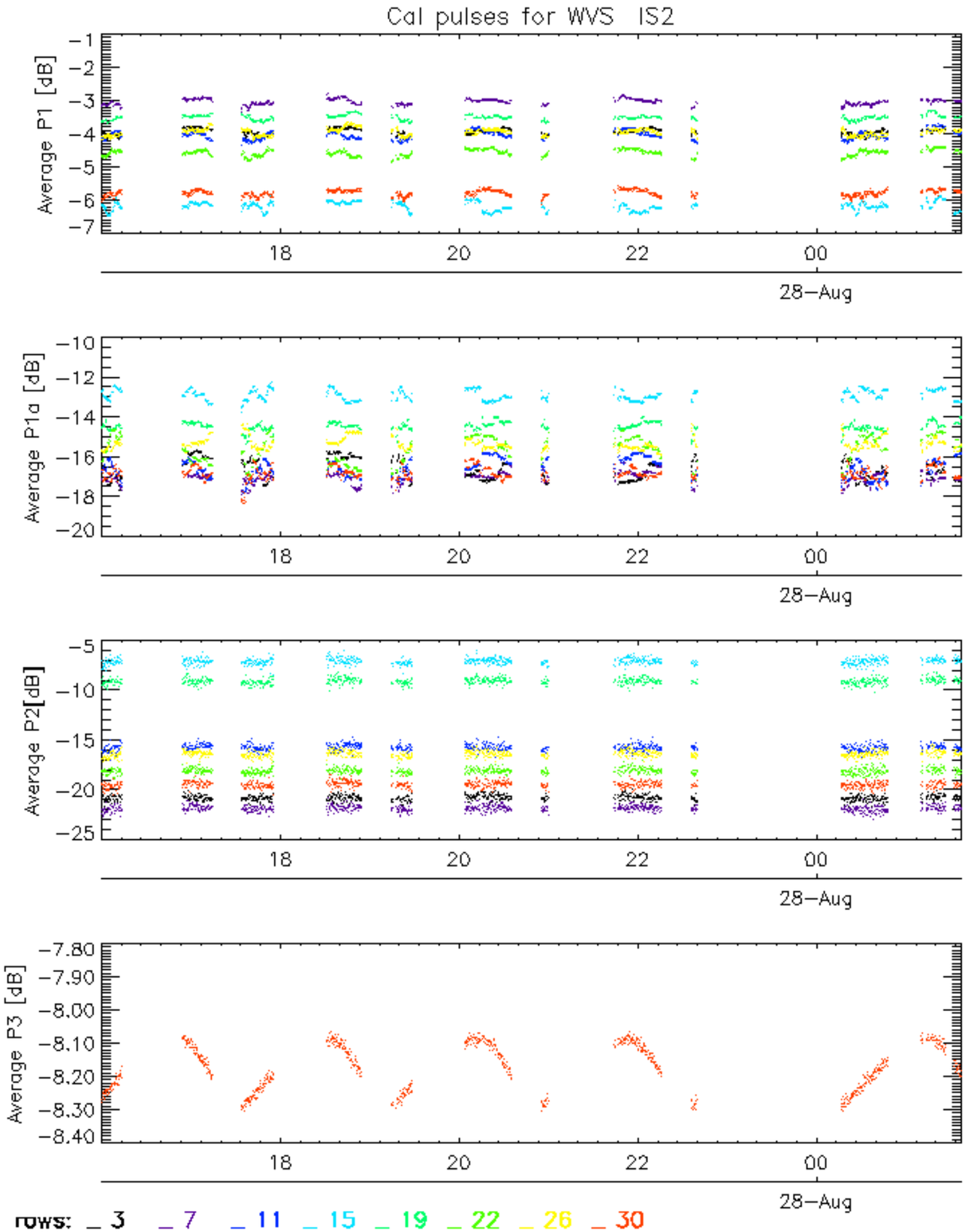

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
28−Aug
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
28−Aug
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
28−Aug
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
28−Aug
rows: _ 3 _ 7 _ 11 _ 15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


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


Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
Average P1a [dB]
0
−10
−20
−30
−40
−50
Average P2 [dB]
0
−5
−10
−15
−20
−25
−30
−35
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
26−Jul
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

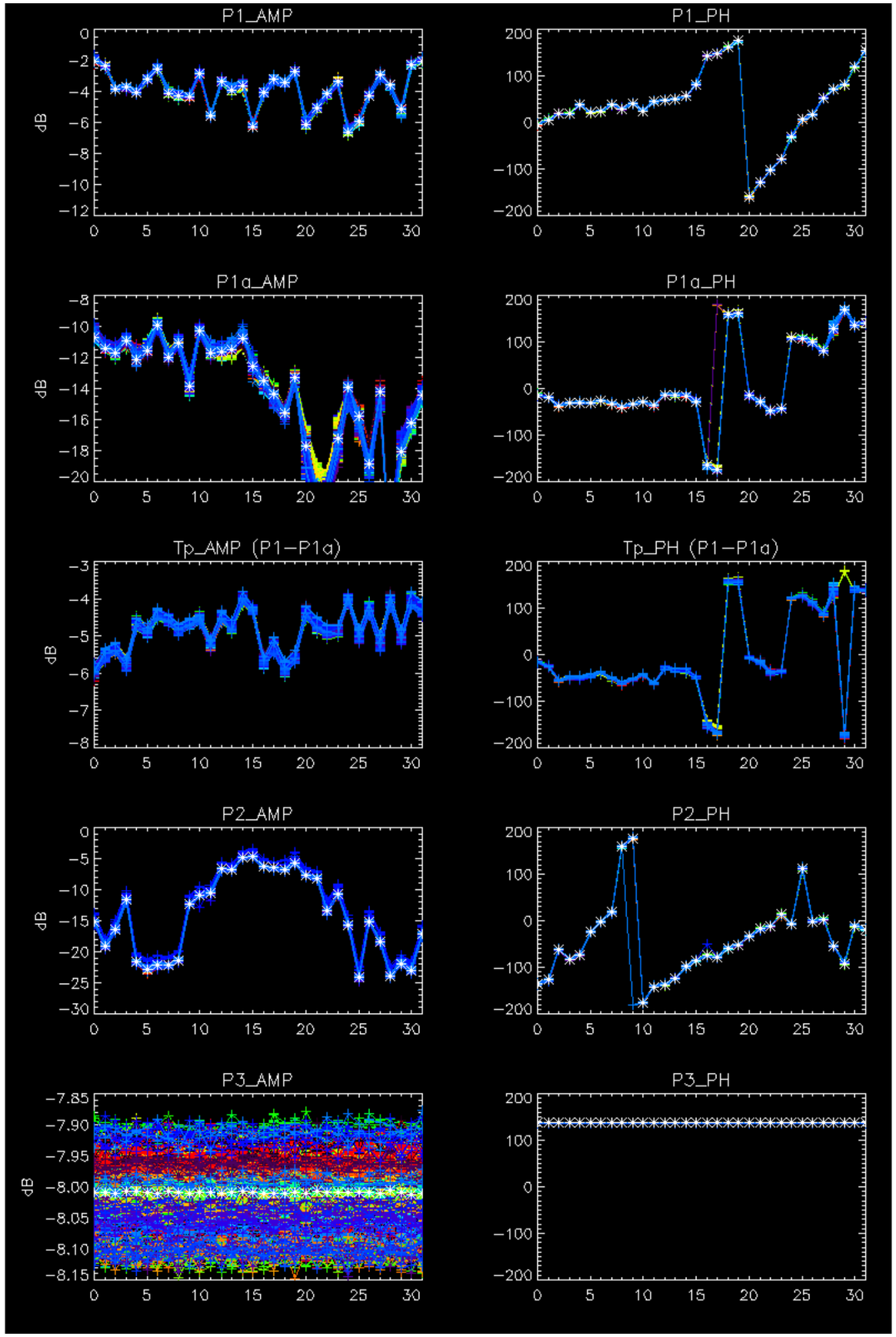

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
28−Aug
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
28−Aug
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
28−Aug
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
28−Aug
rows: _ 3 _ 7 _ 11 _ 15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

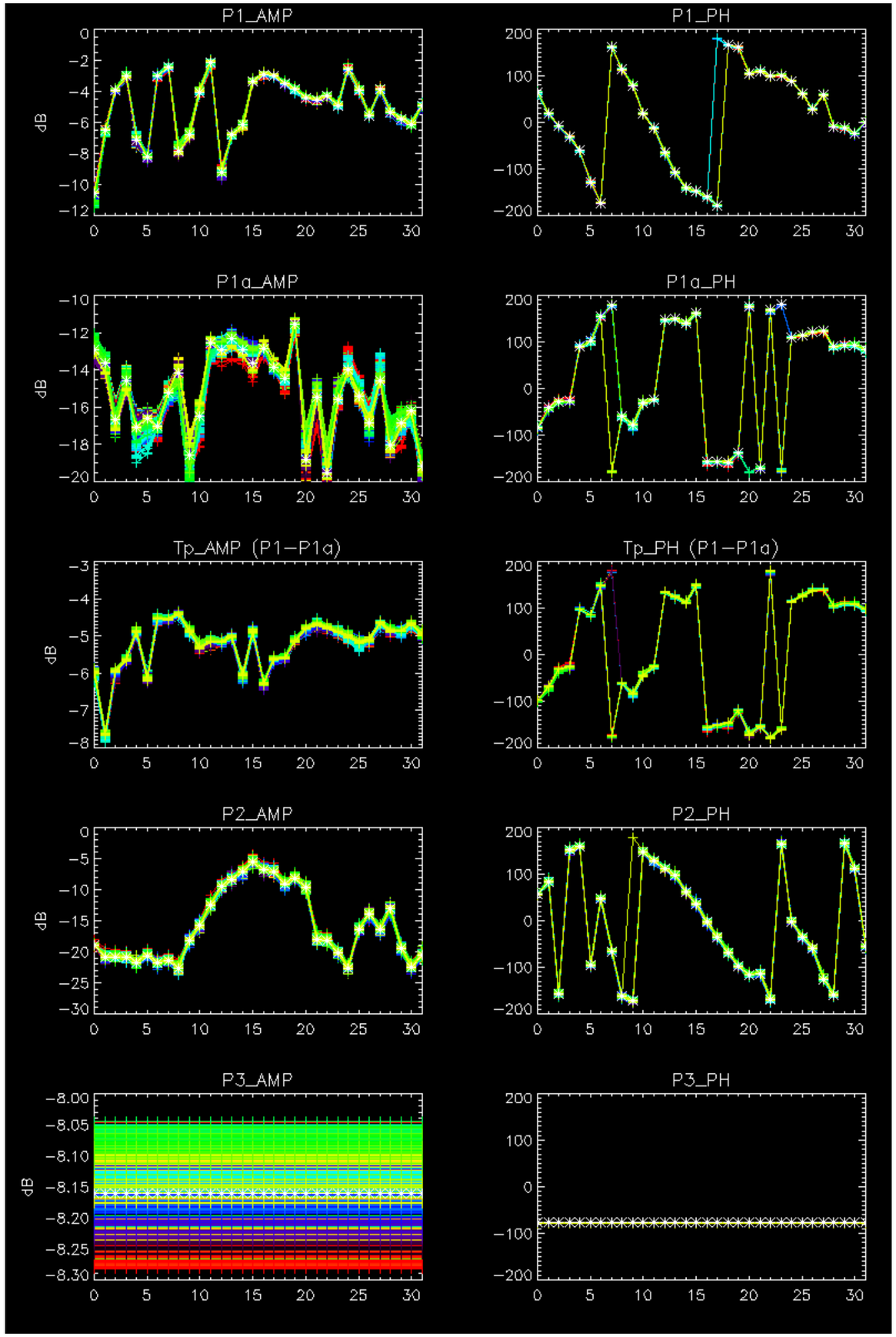

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
−10
−12
26−Jul
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2 [dB]
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

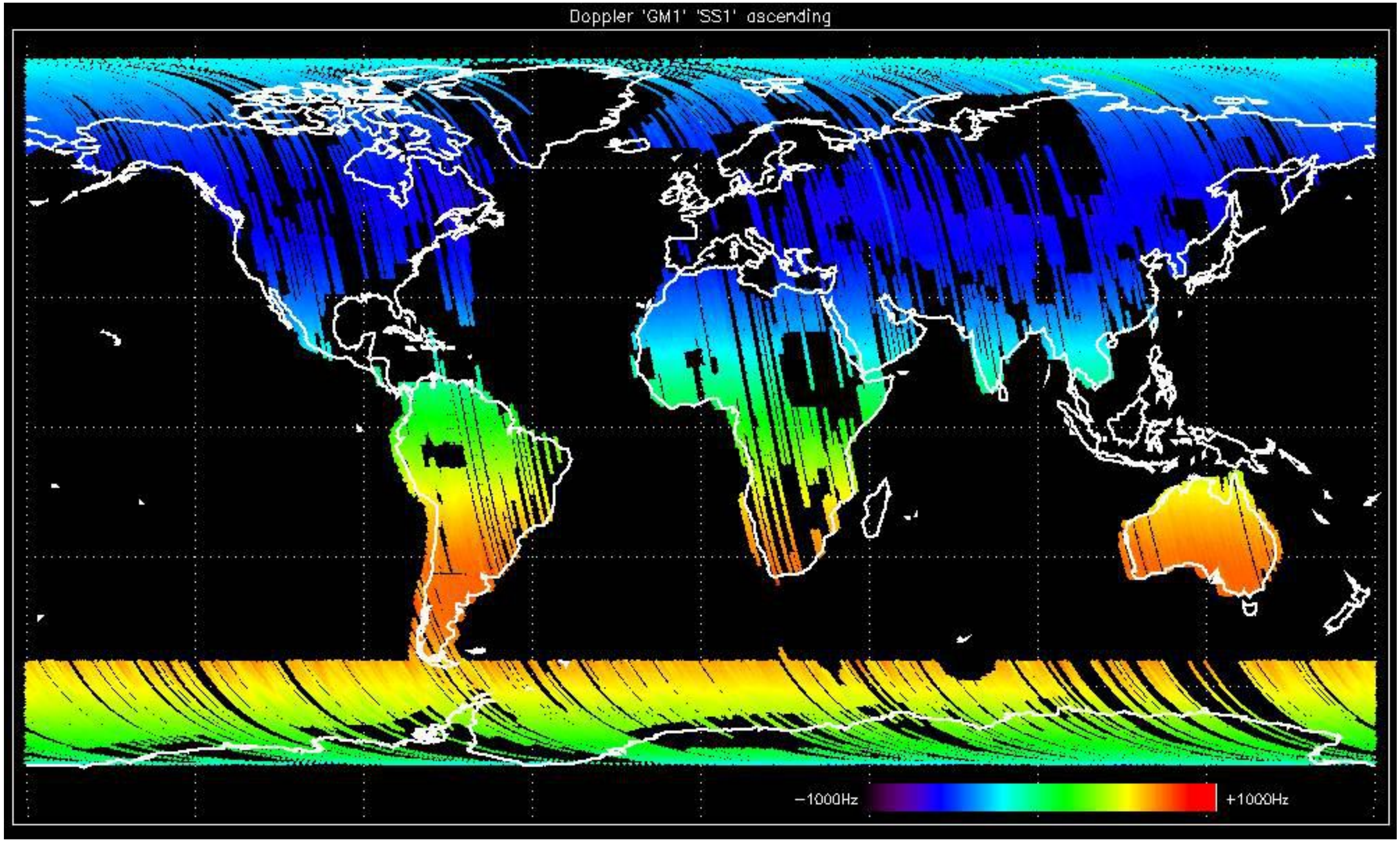
No anomalies observed.

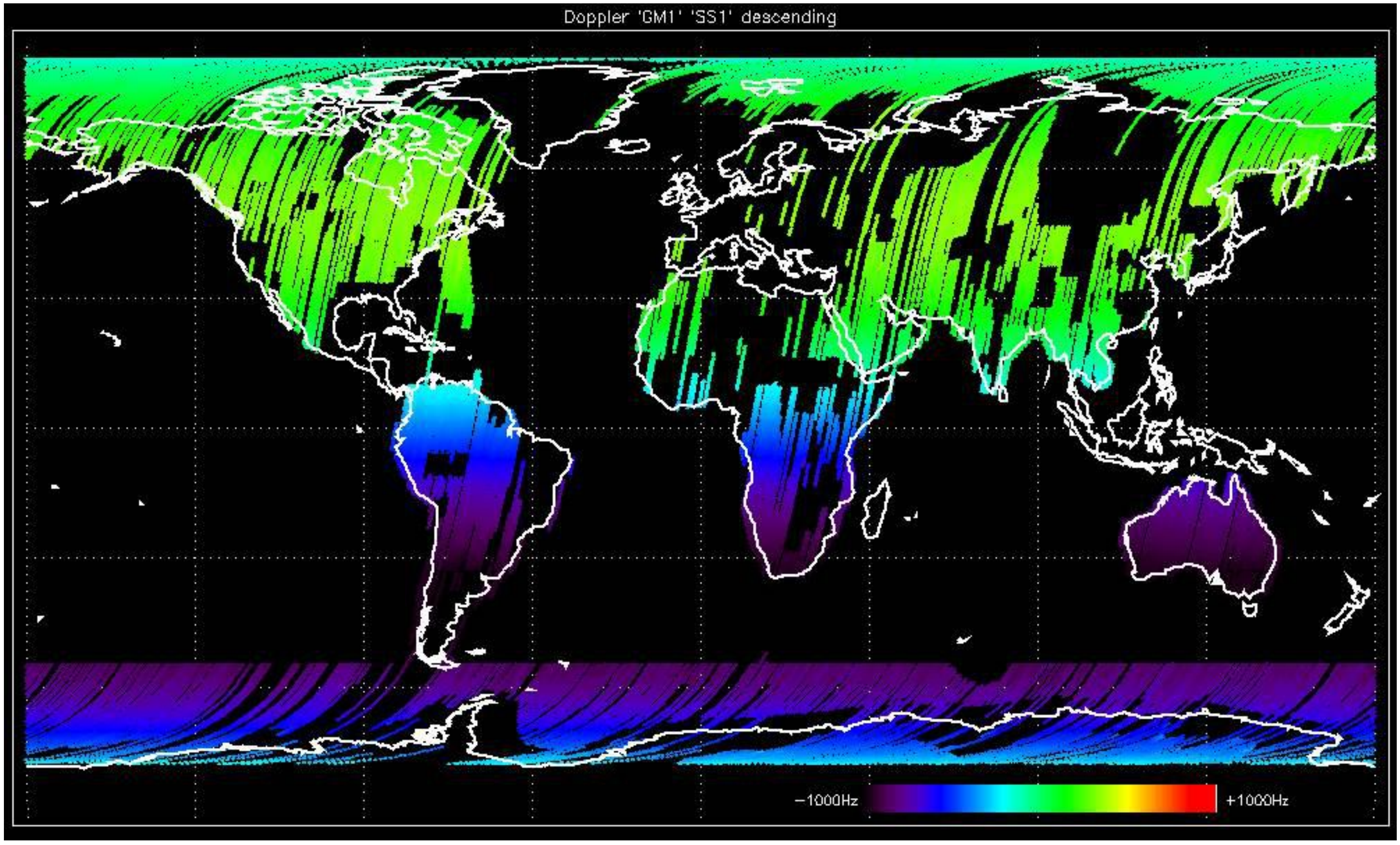

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

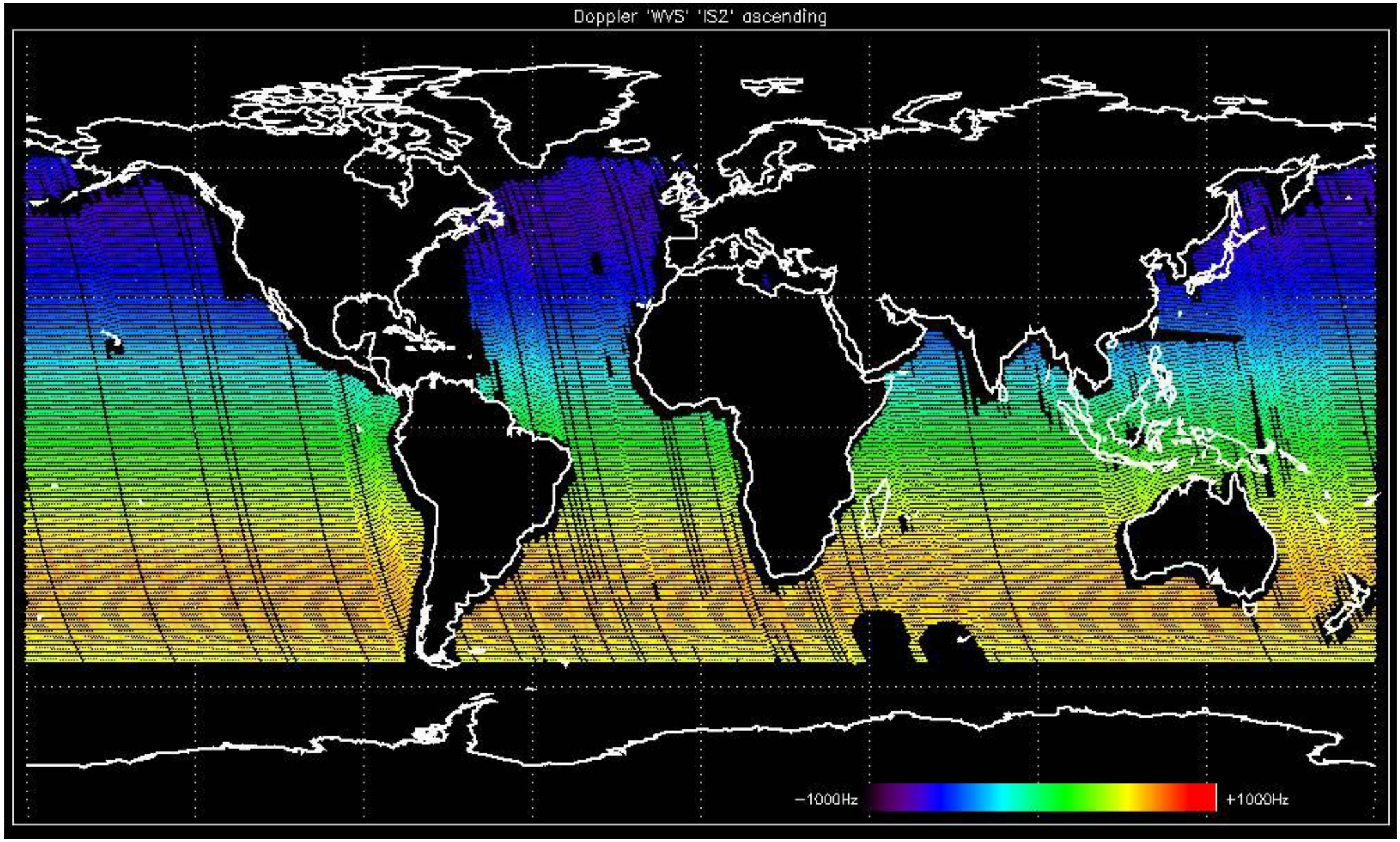

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

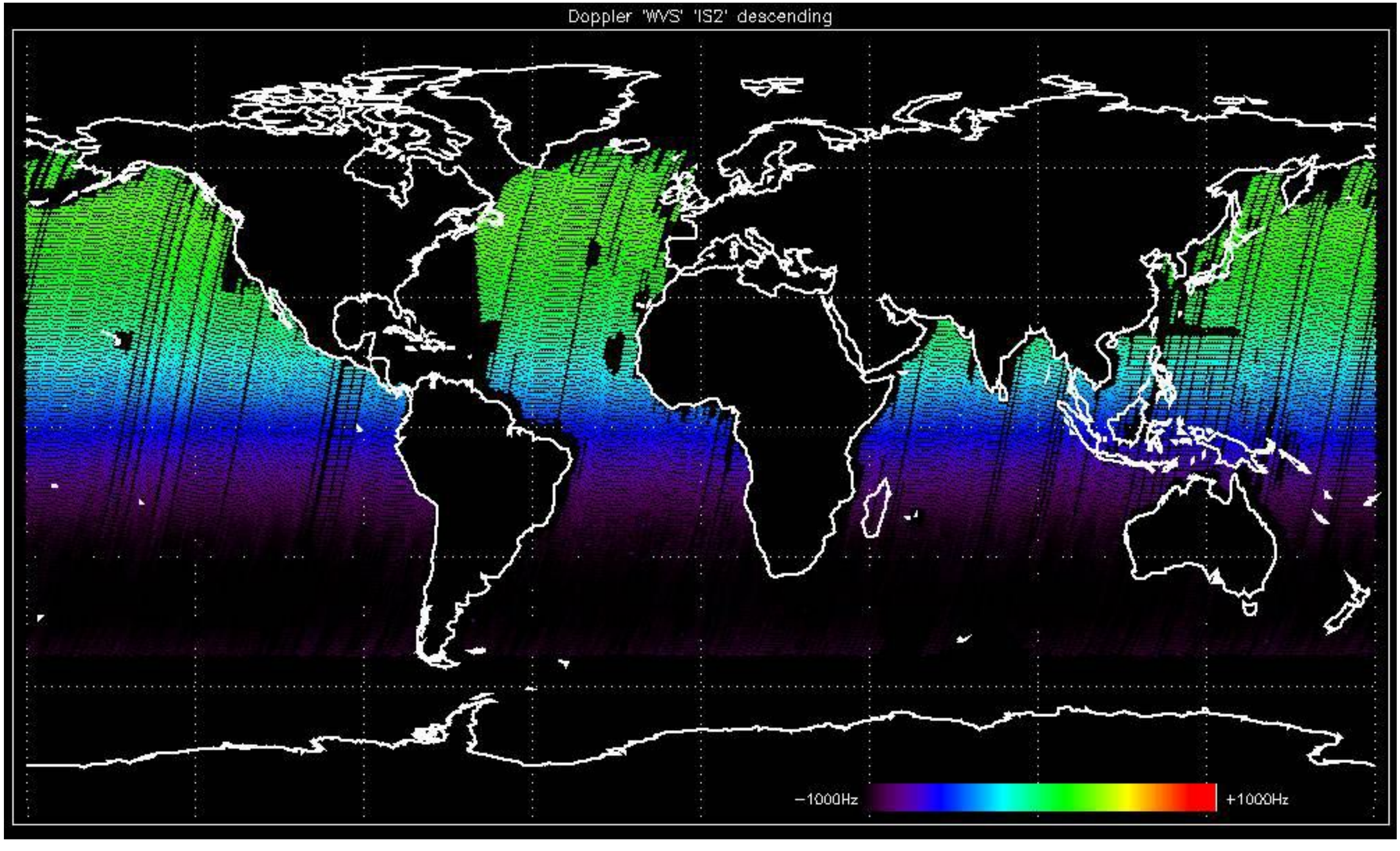
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

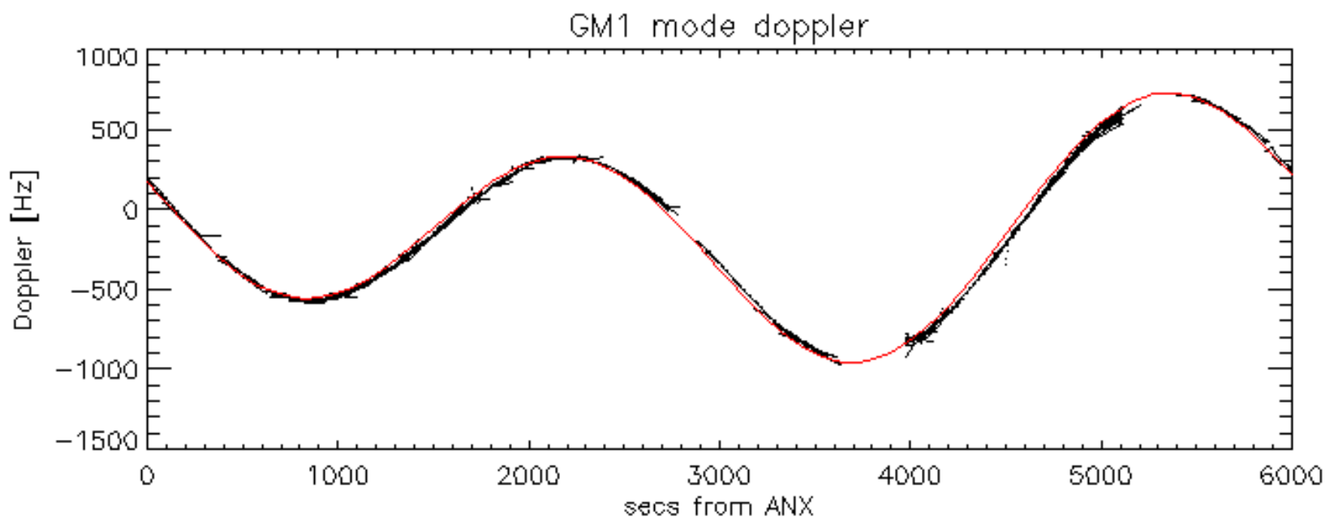
Preliminary report.The data is not yet controled

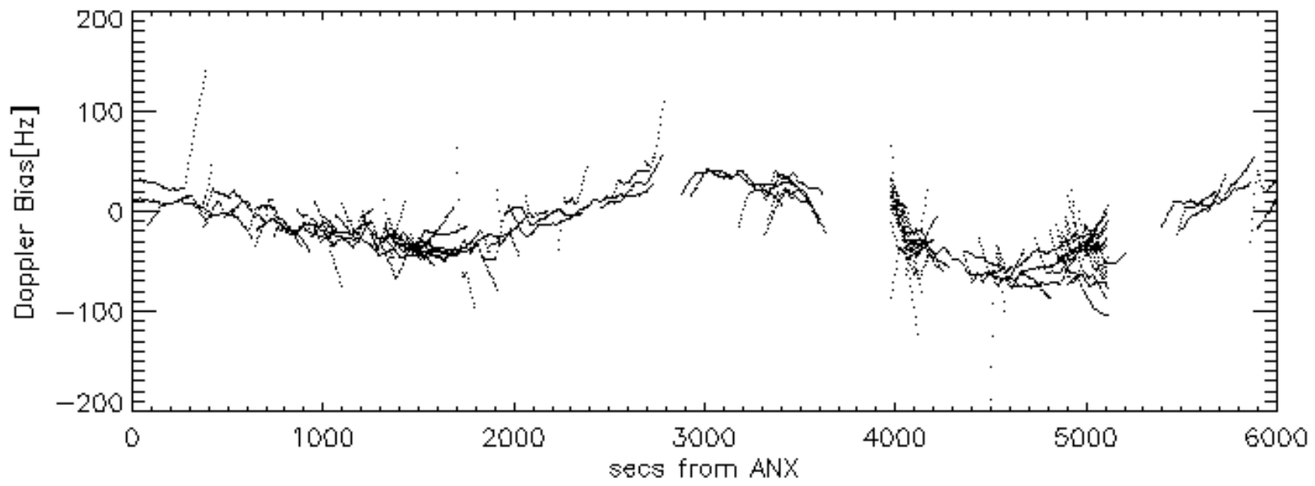

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

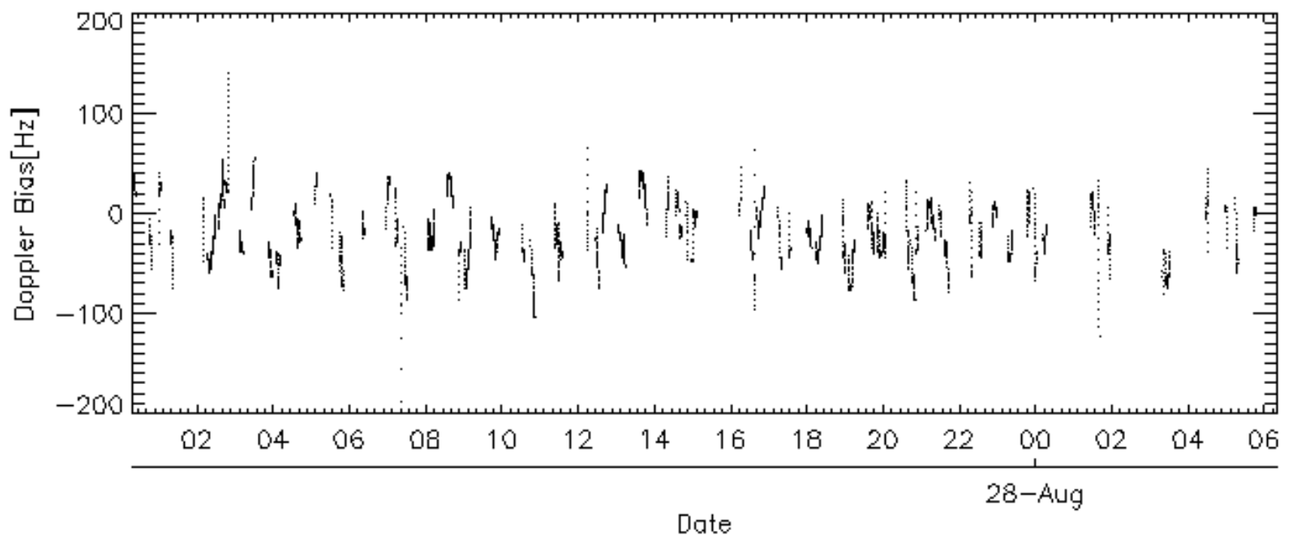

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

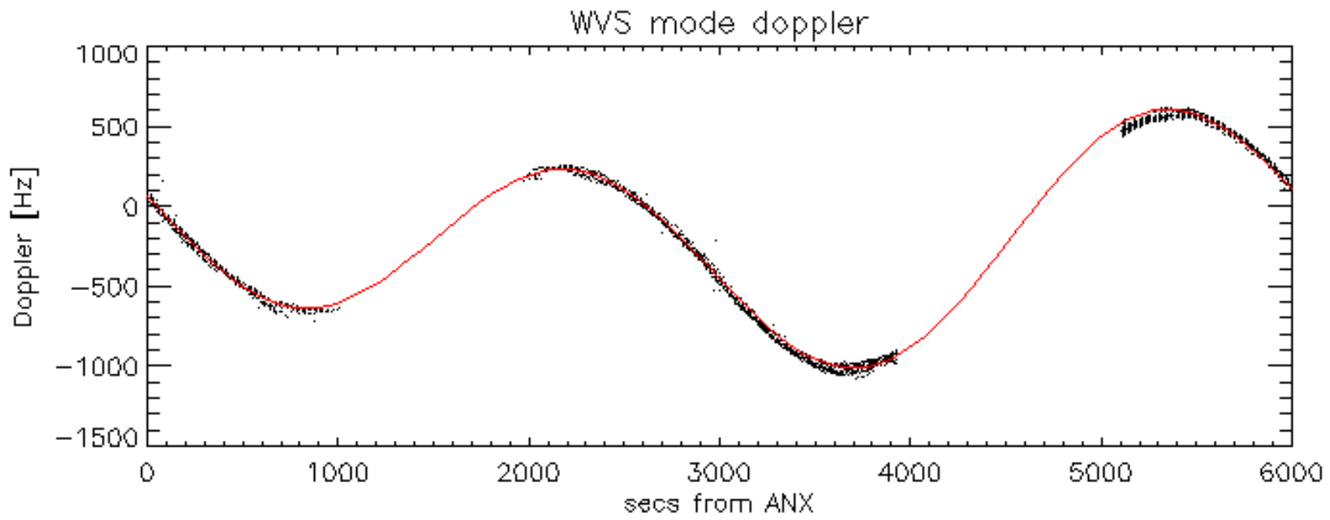

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

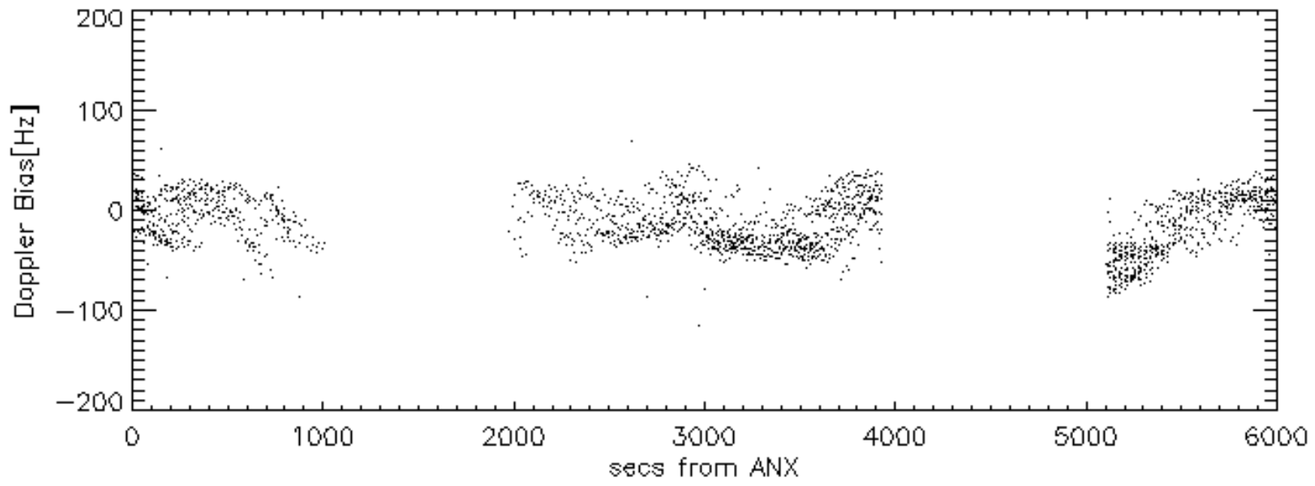

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

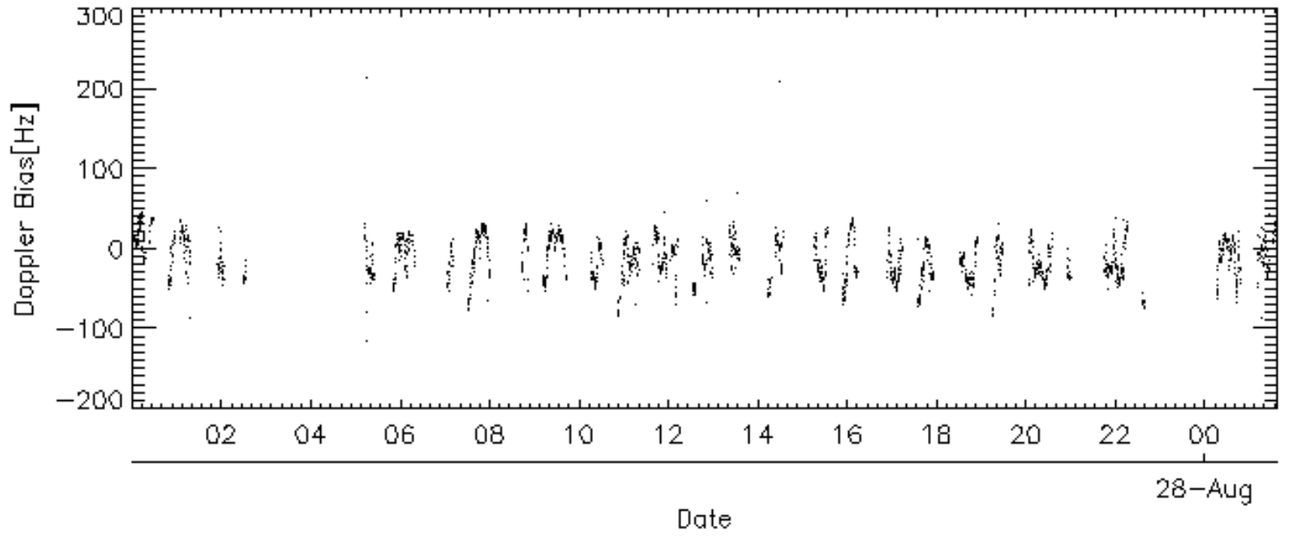

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

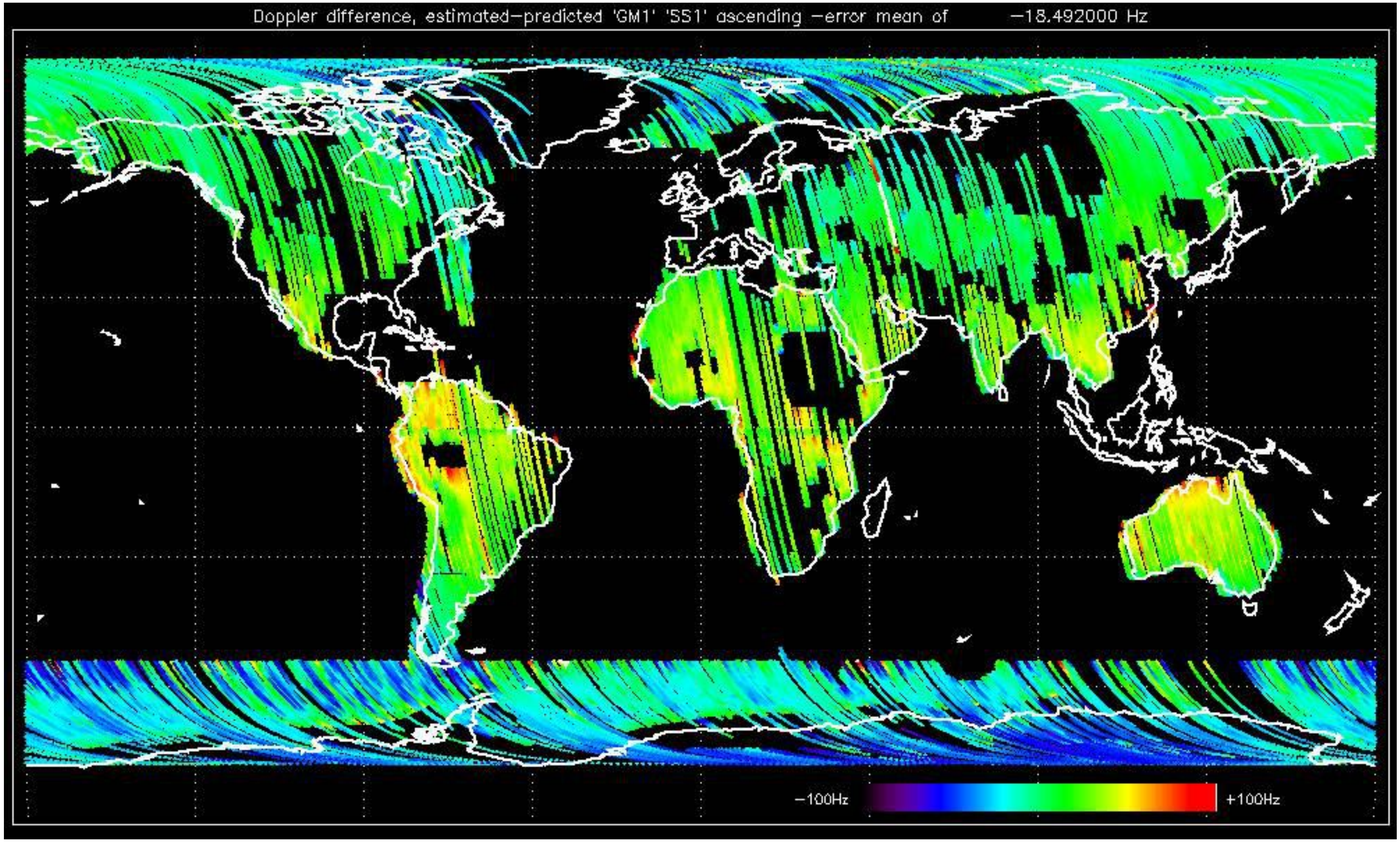

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

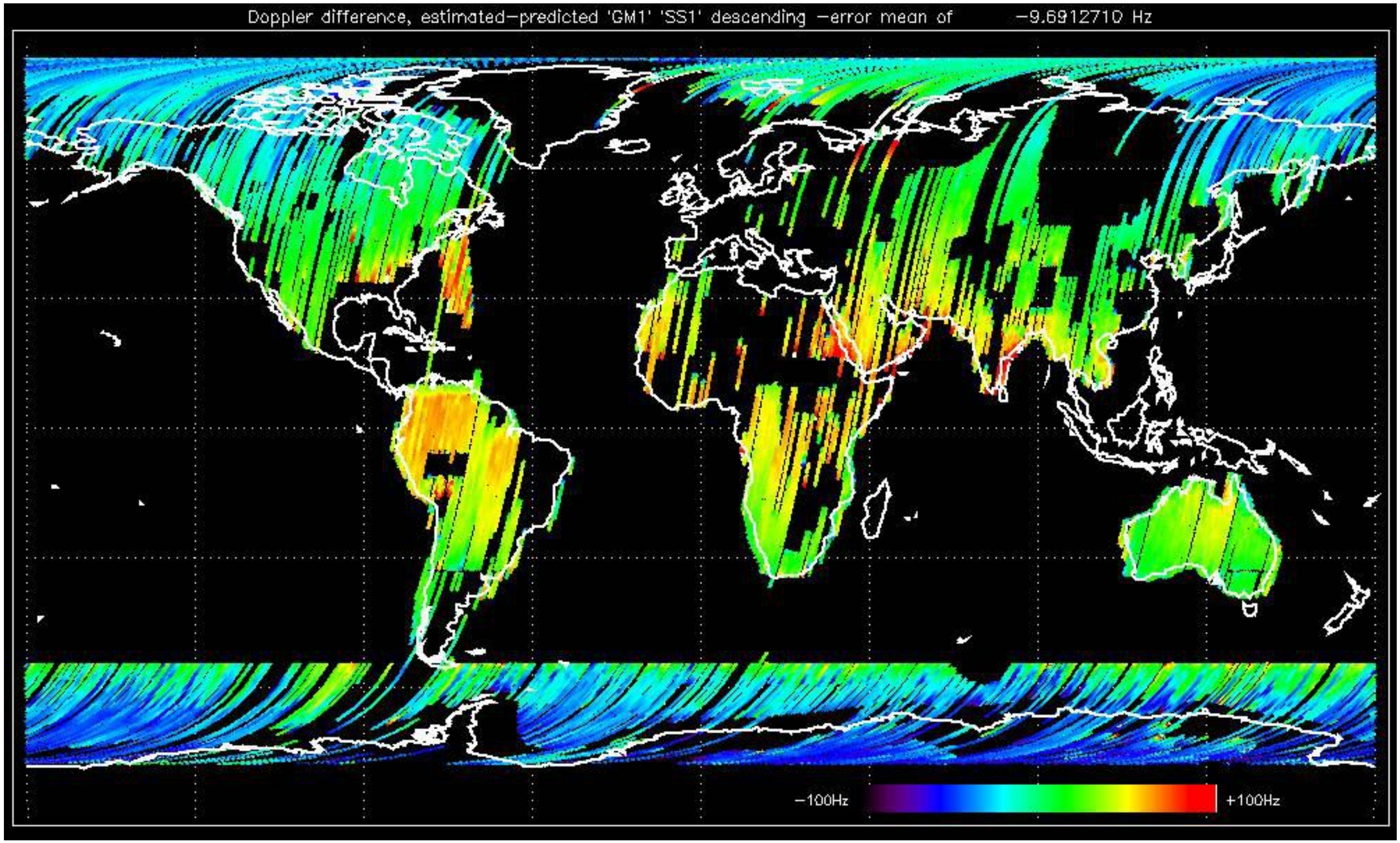

Doppler Bias[Hz]
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
28−Aug
Date

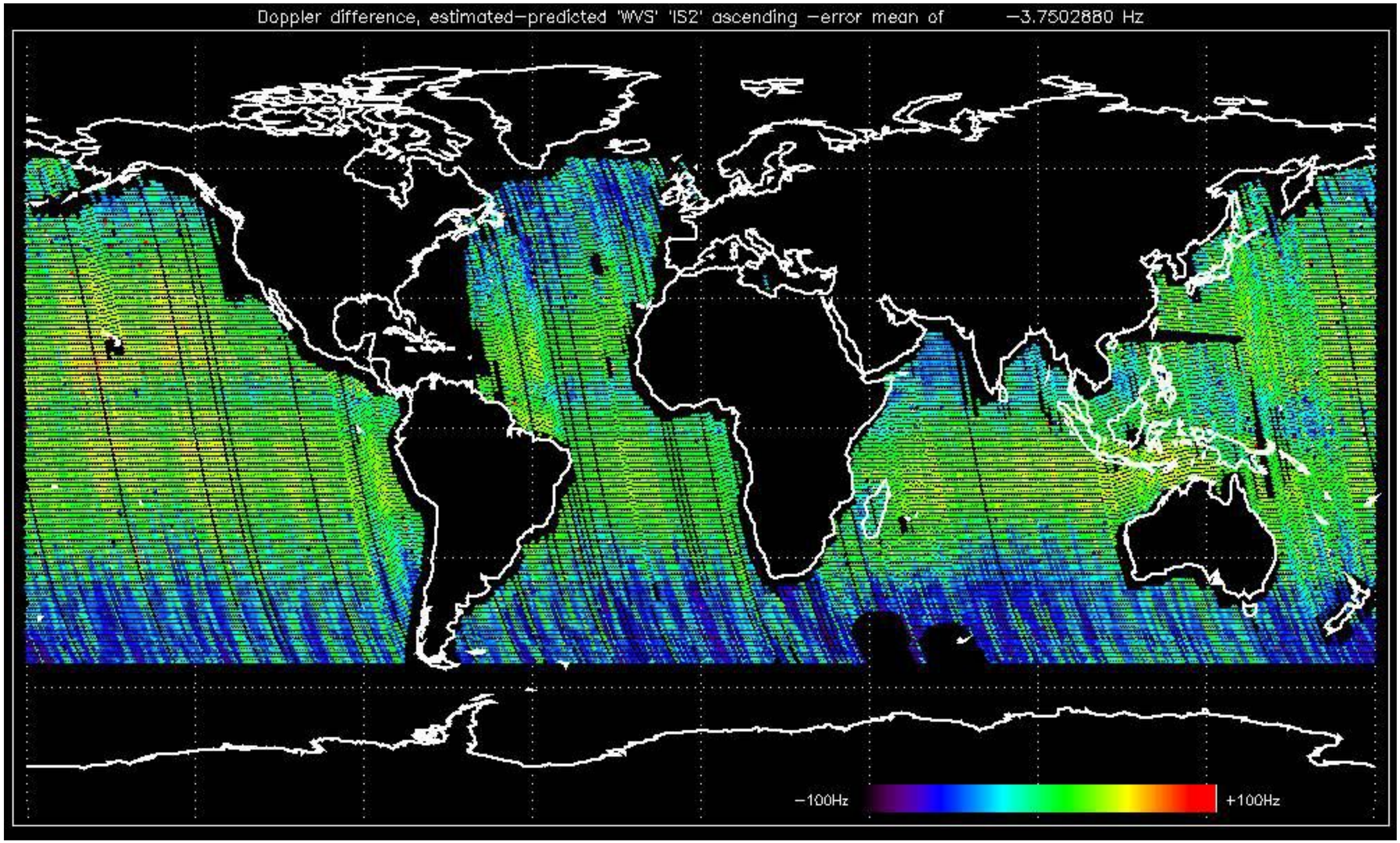

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

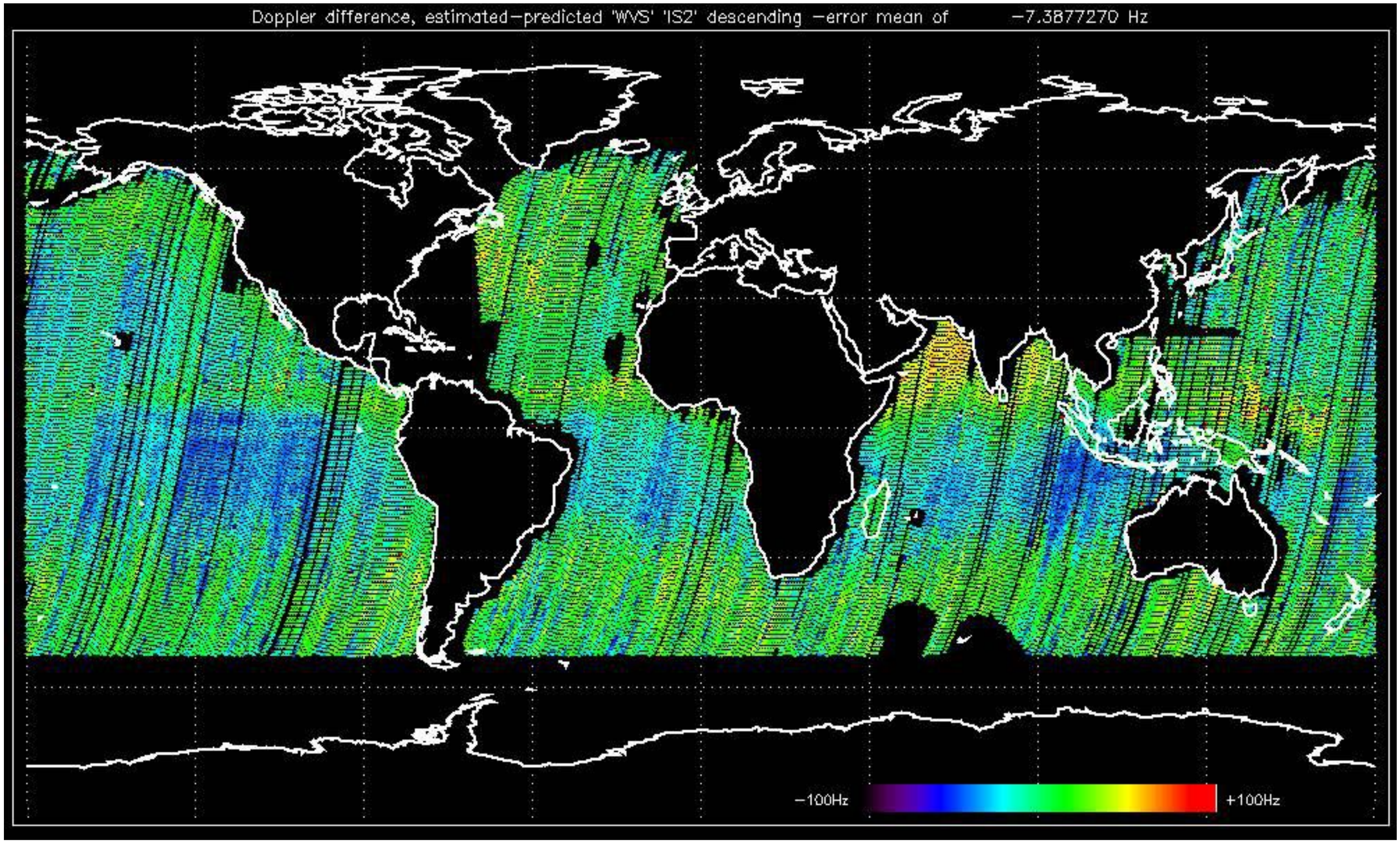

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −18.492000 Hz
−100Hz
+100Hz

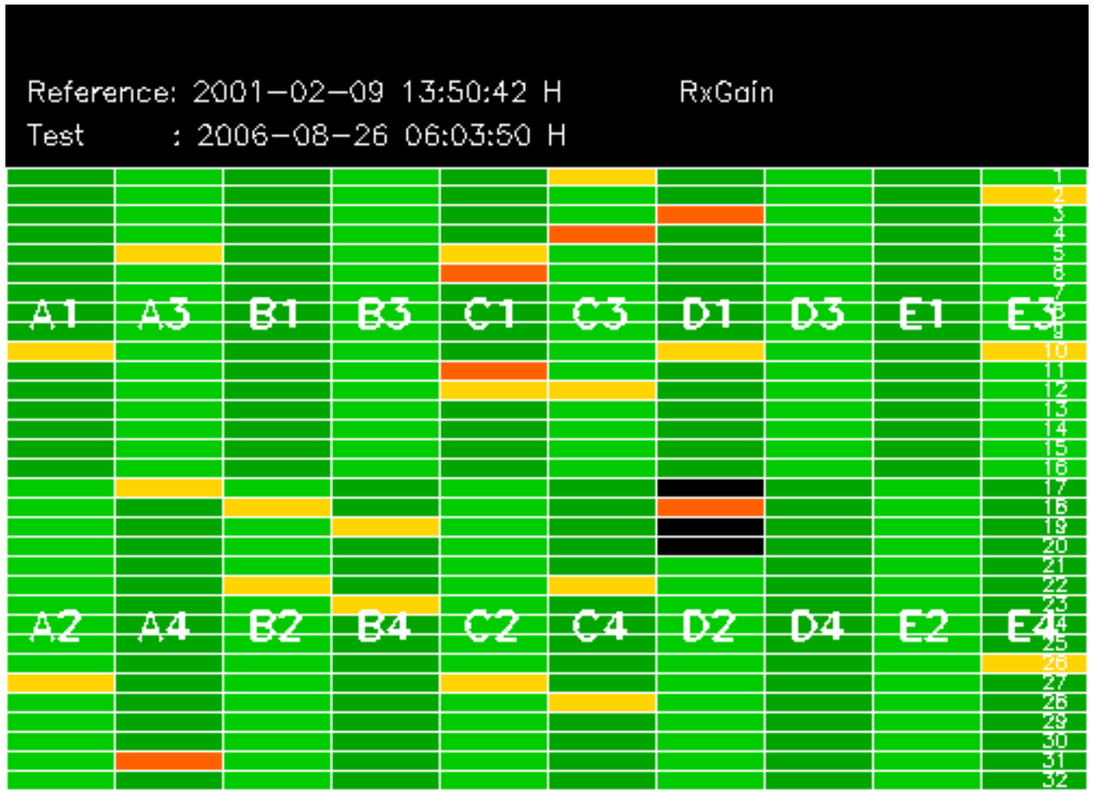

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -9.6912710 Hz
-100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −3.7502880 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −7.3877270 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-08-26 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
1
2
3
4
5
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9
10
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14
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16
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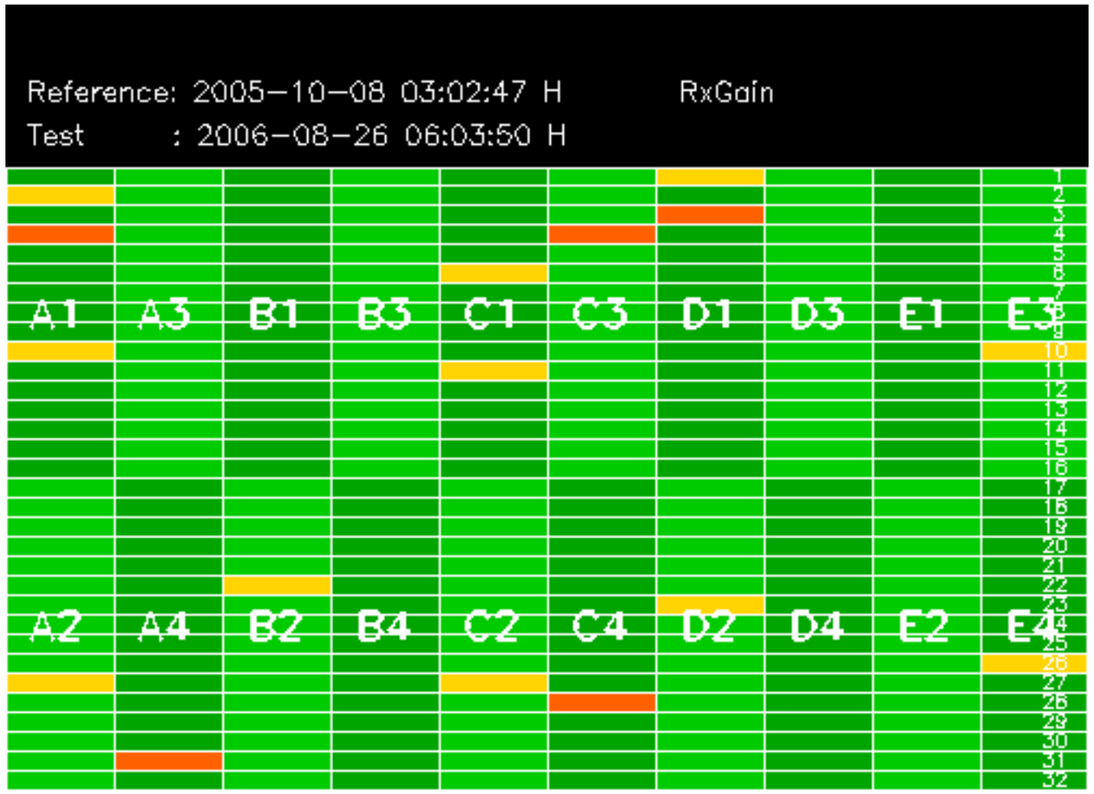
29
30
31
32


Reference: 2005-10-08 03:02:47 H
Test : 2006-08-26 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
1
2
3
4
5
6
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8
9
10
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14
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16
17
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23
24
25
26
27
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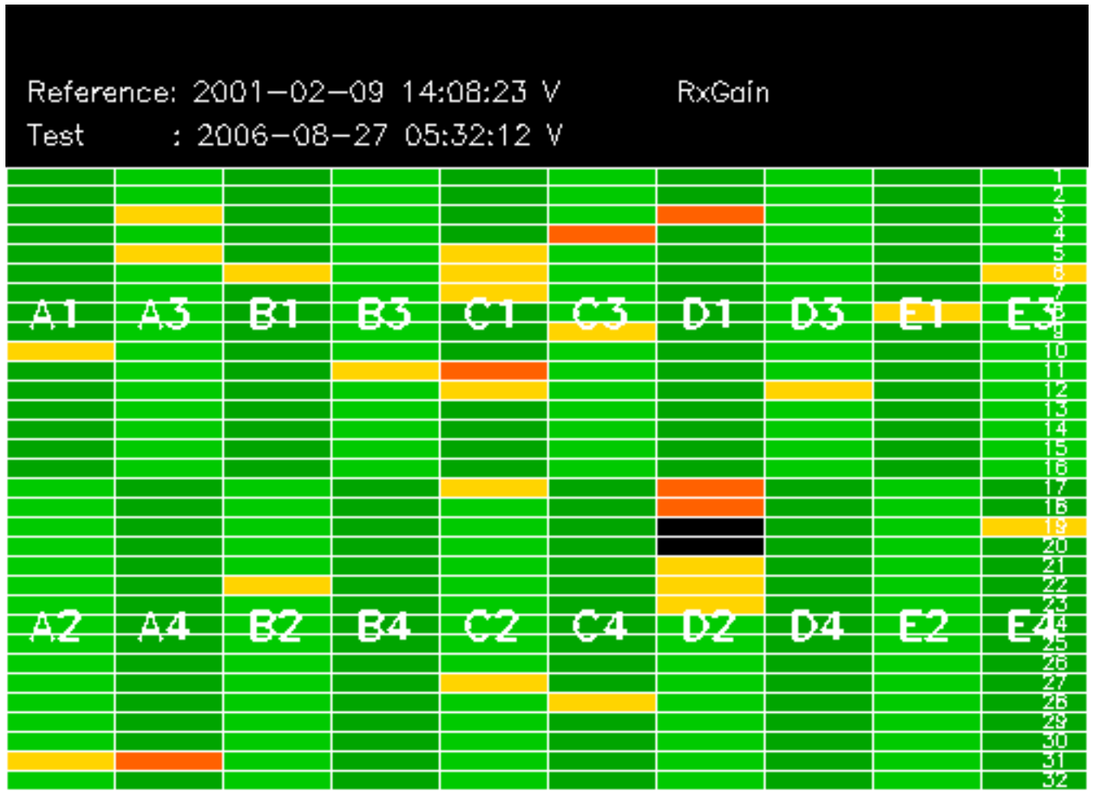
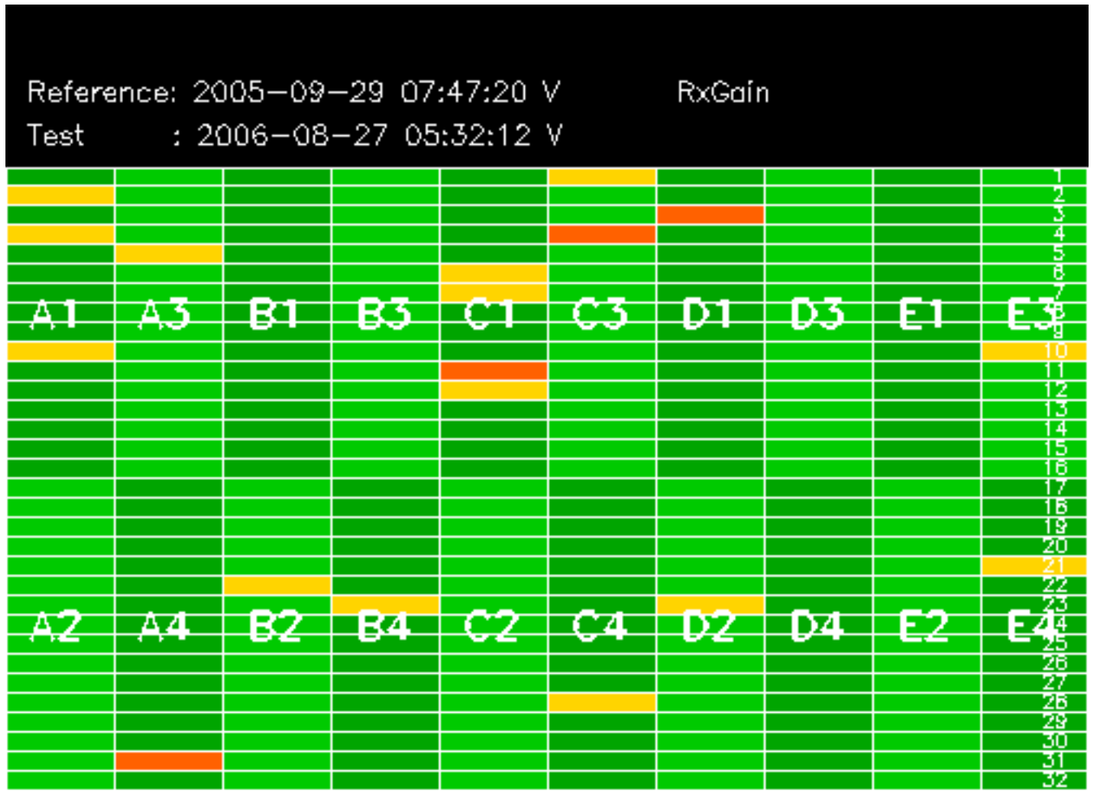
29
30
31
32


Reference: 2001-02-09 14:08:23 V
Test : 2006-08-27 05:32:12 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 : 2006-08-27 05:32:12 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
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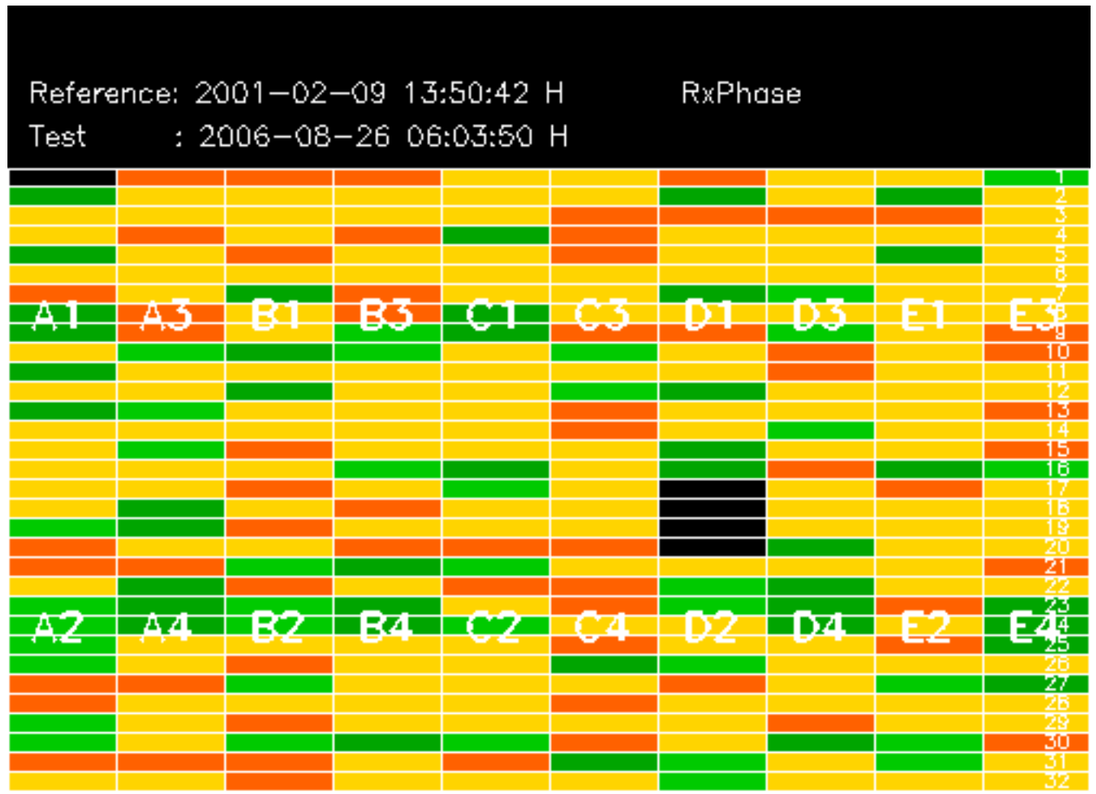
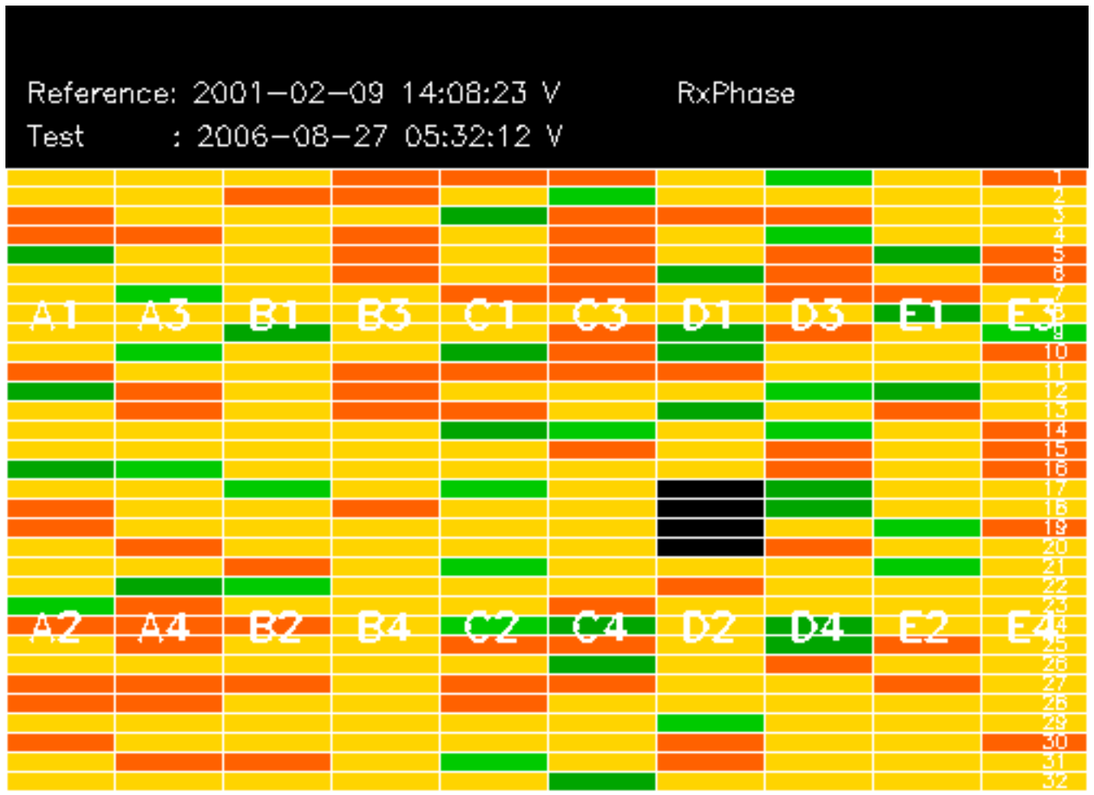
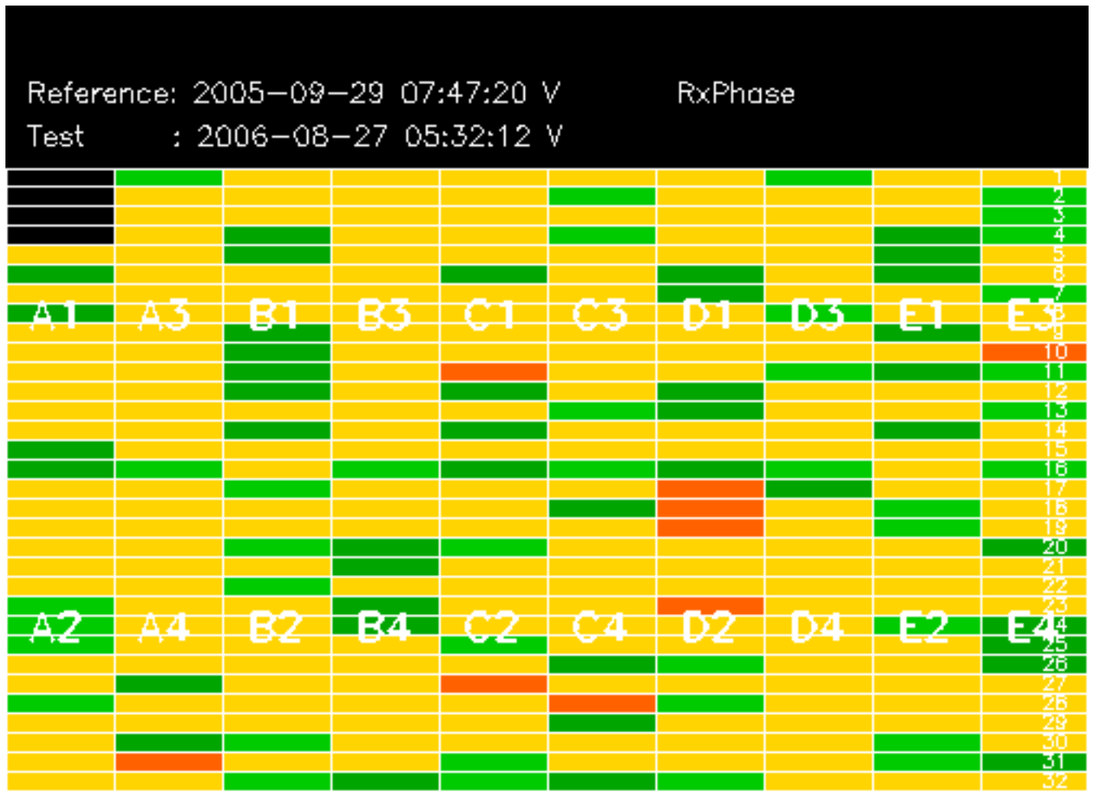
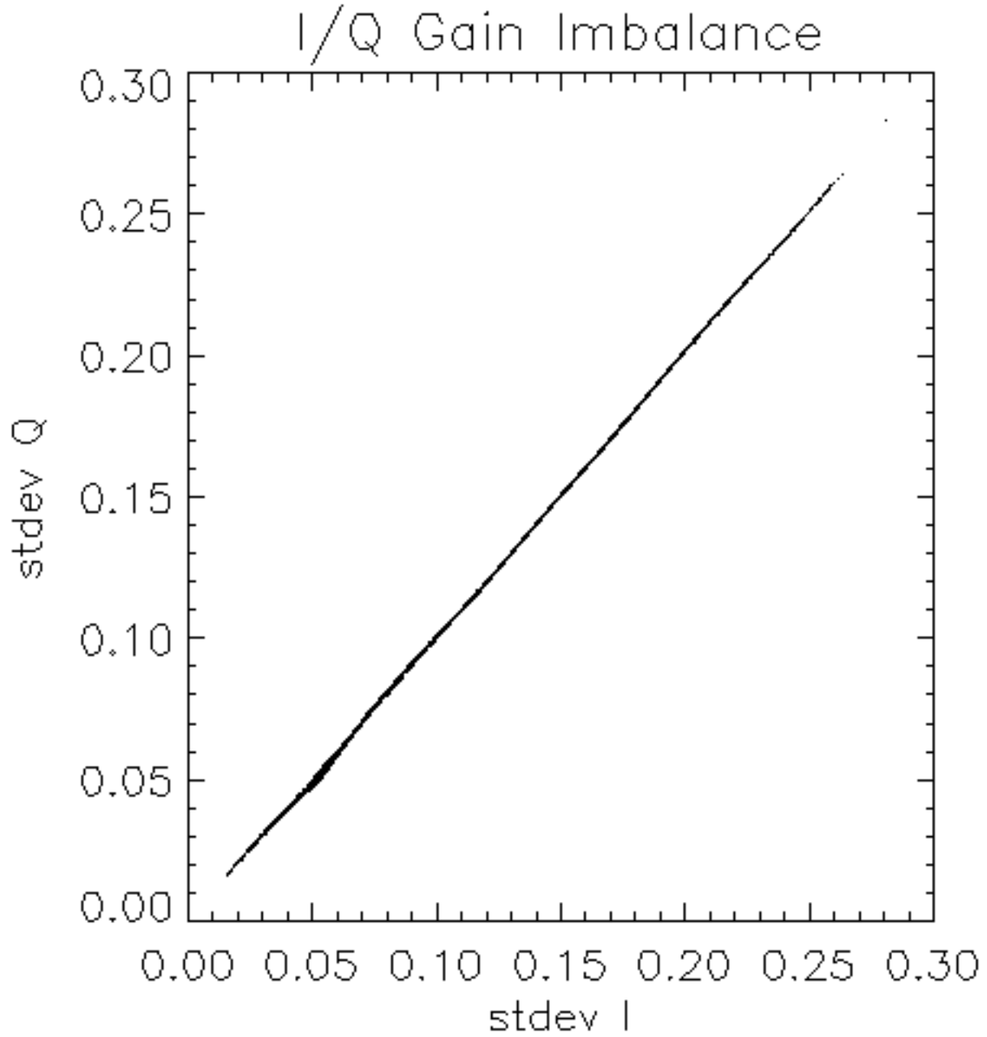
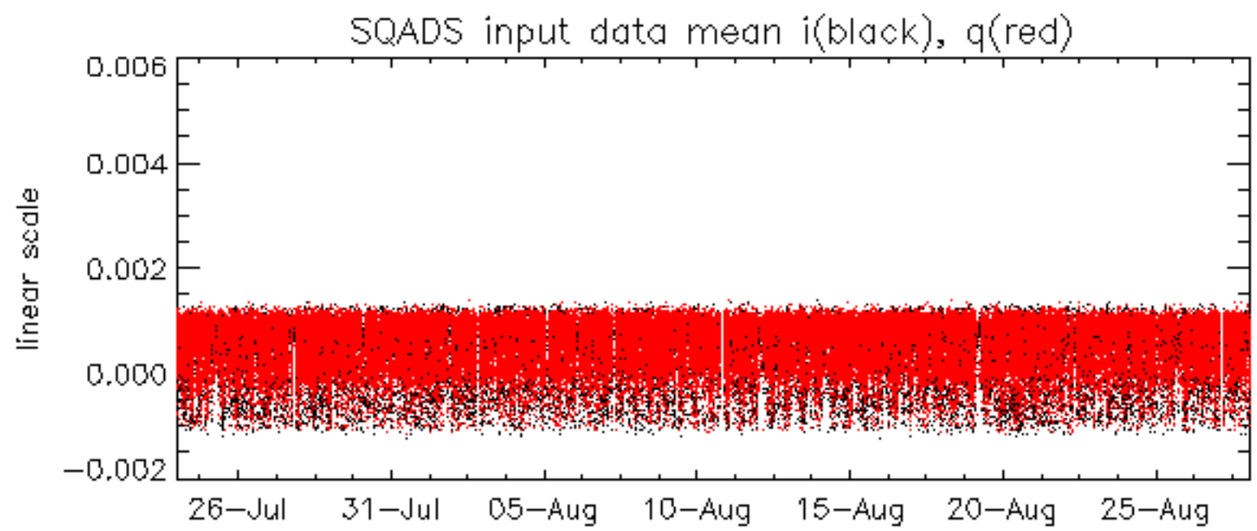

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-08-26 06:03:50 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

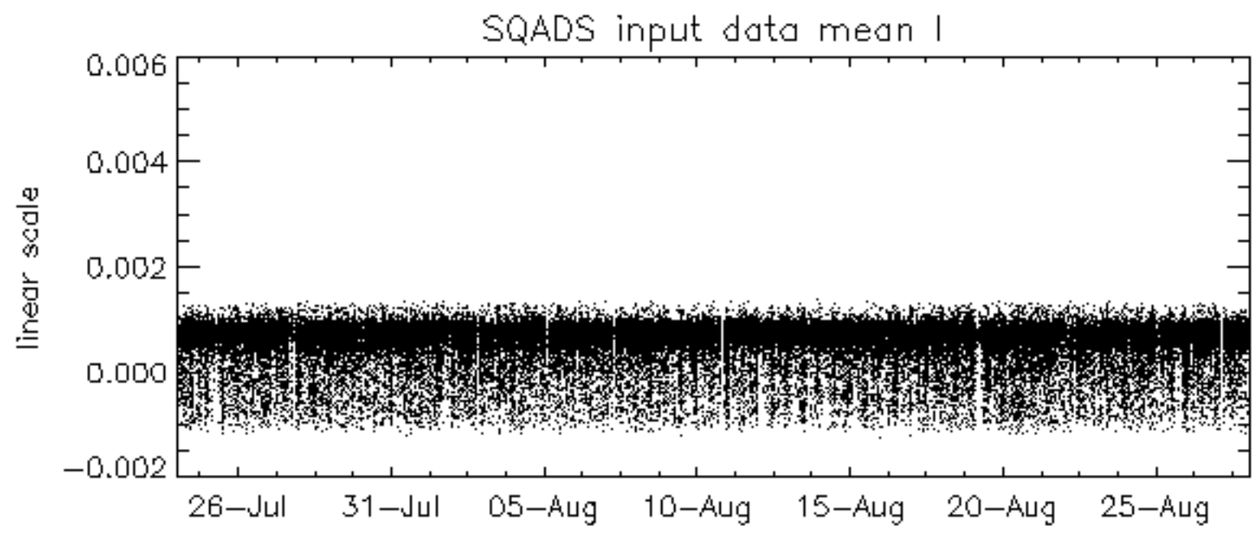

Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-08-26 06:03:50 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

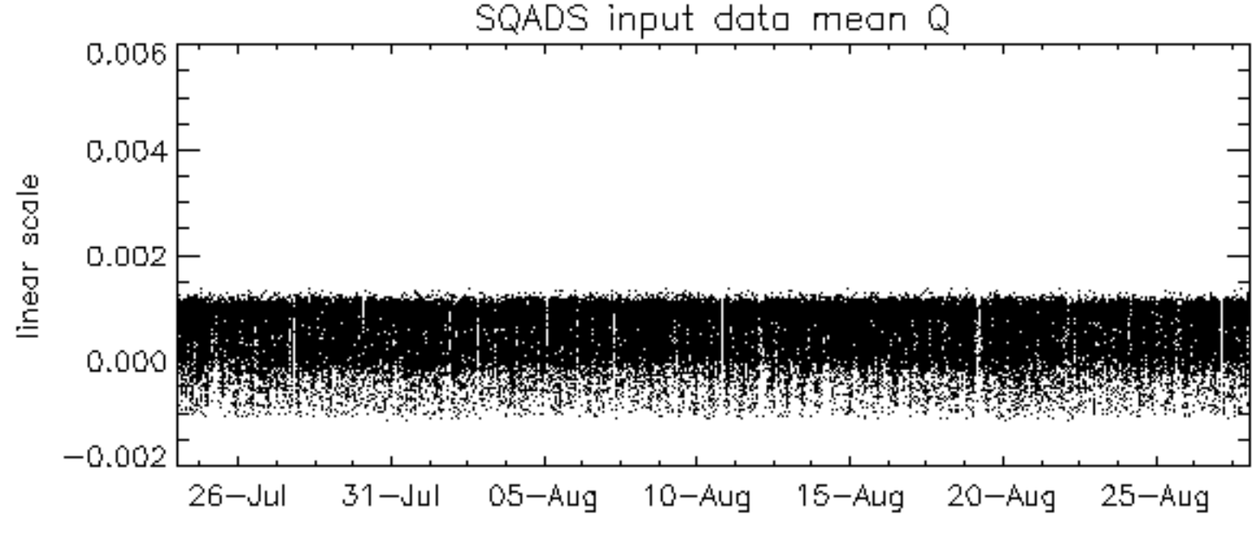

Reference: 2001-02-09 14:08:23 V
Test : 2006-08-27 05:32:12 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

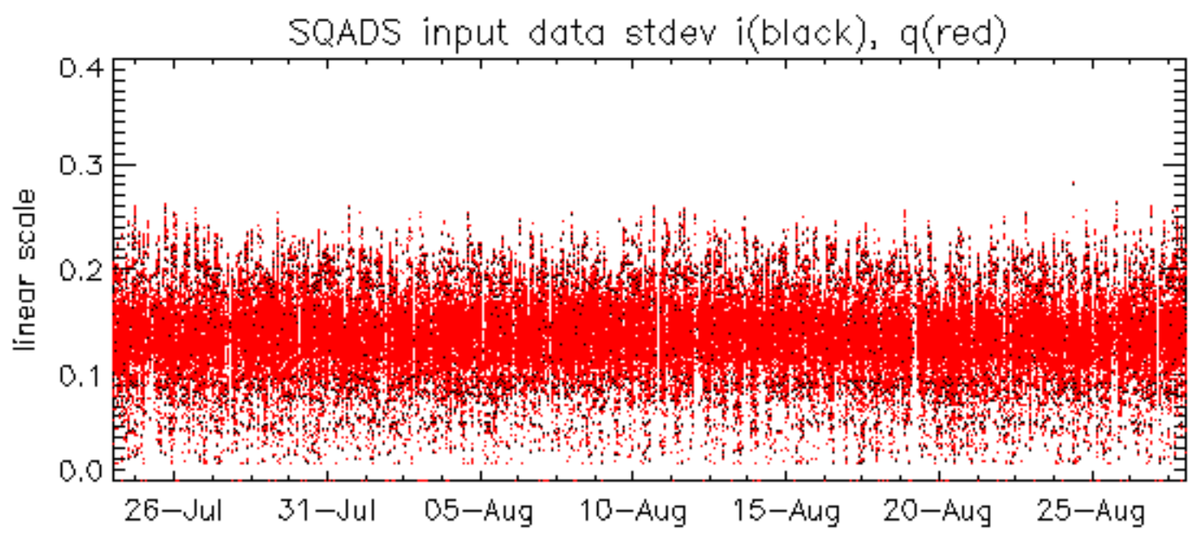

Reference: 2005-09-29 07:47:20 V
Test : 2006-08-27 05:32:12 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4

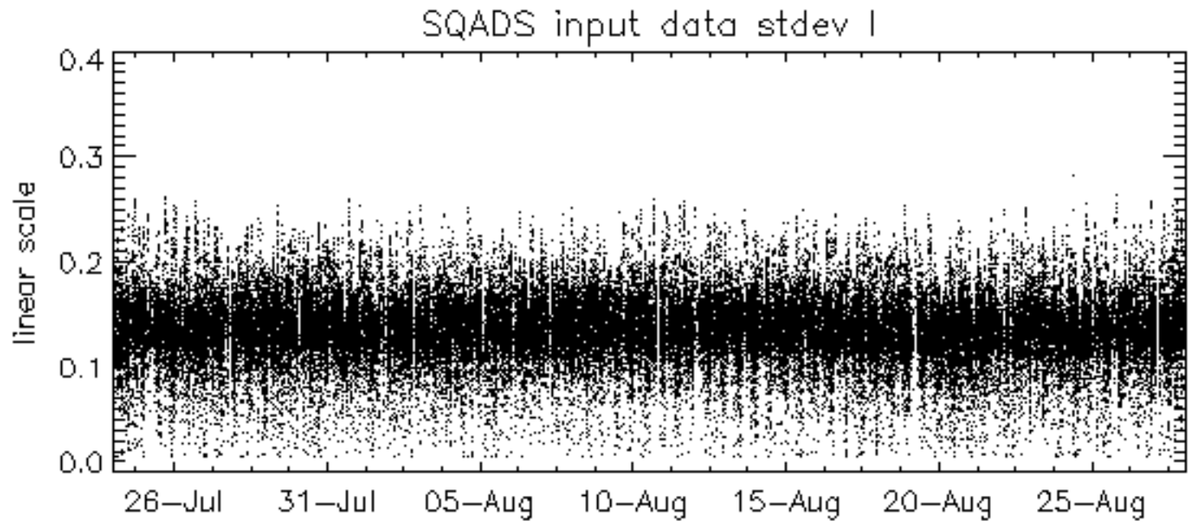

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

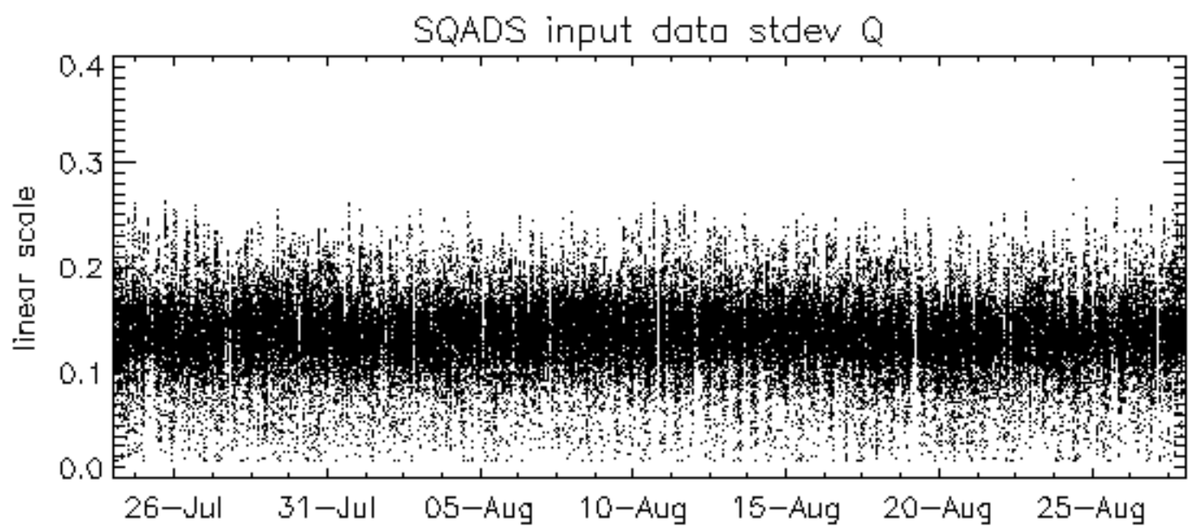

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jul
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug

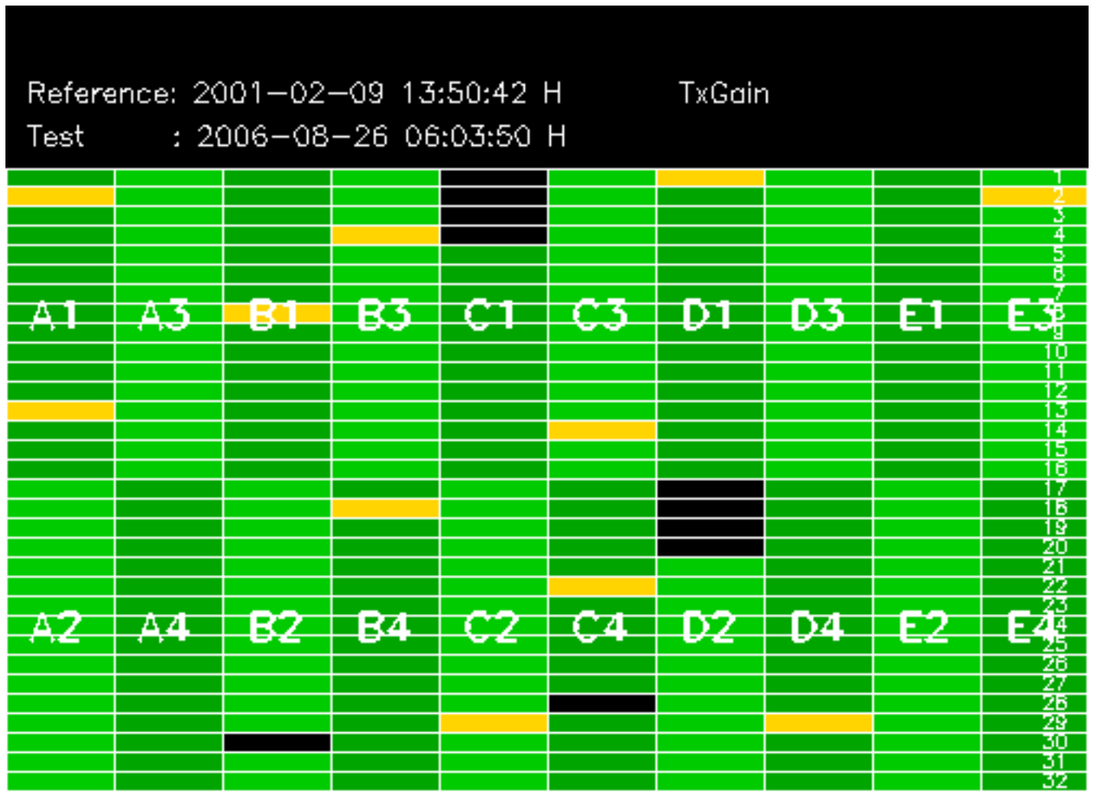

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
26−Jul
31−Jul
05−Aug
10−Aug
15−Aug
20−Aug
25−Aug


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


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


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


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


Reference: 2001-02-09 13:50:42 H
Test : 2006-08-26 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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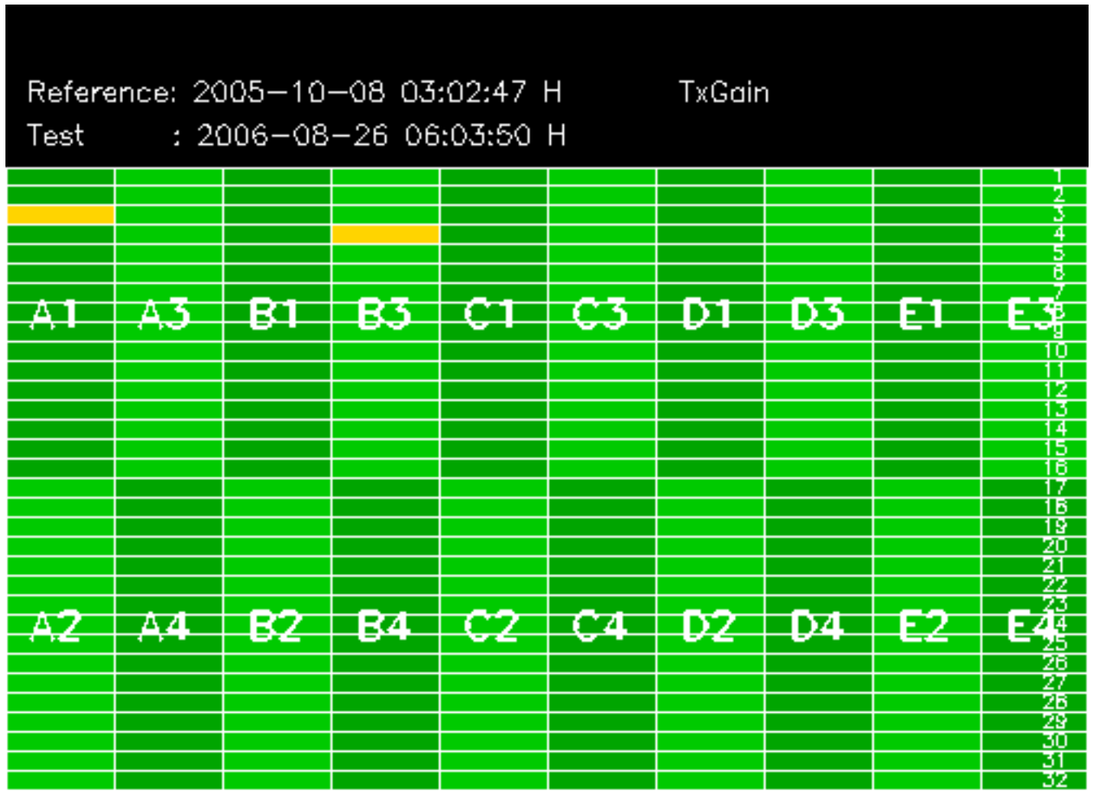
Reference: 2005-10-08 03:02:47 H
Test : 2006-08-26 06:03:50 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
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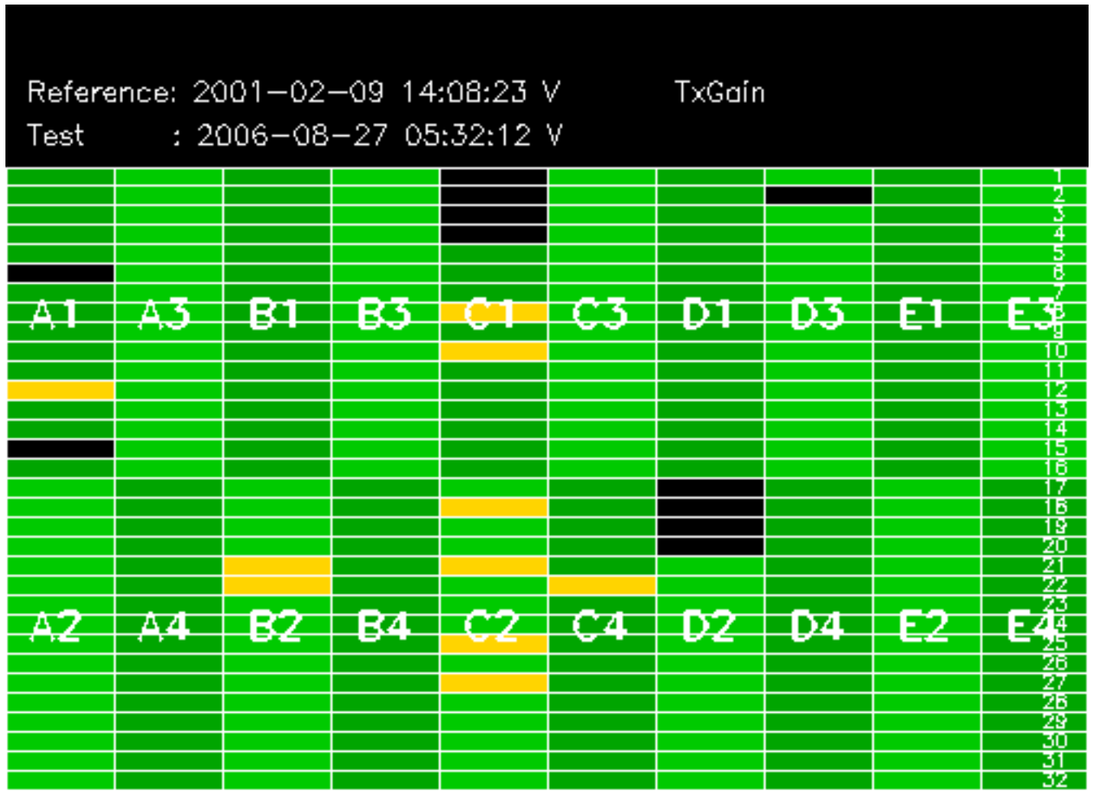
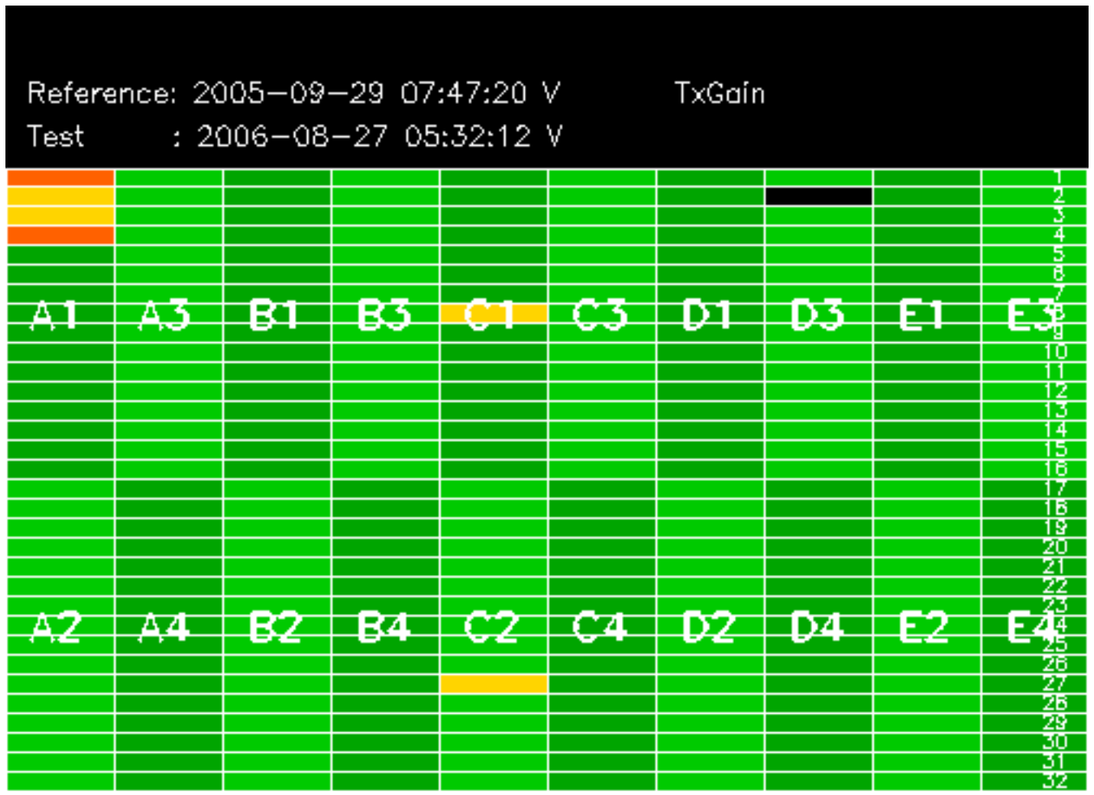
32


Reference: 2001-02-09 14:08:23 V
Test : 2006-08-27 05:32:12 V
TxGain
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 : 2006-08-27 05:32:12 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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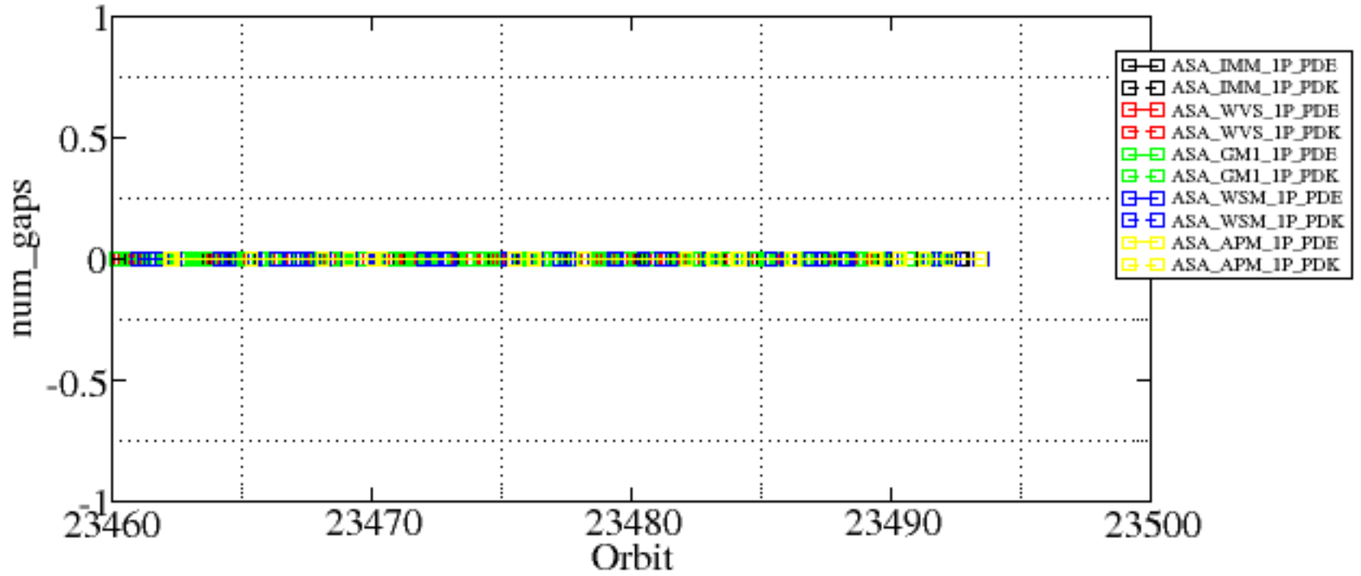
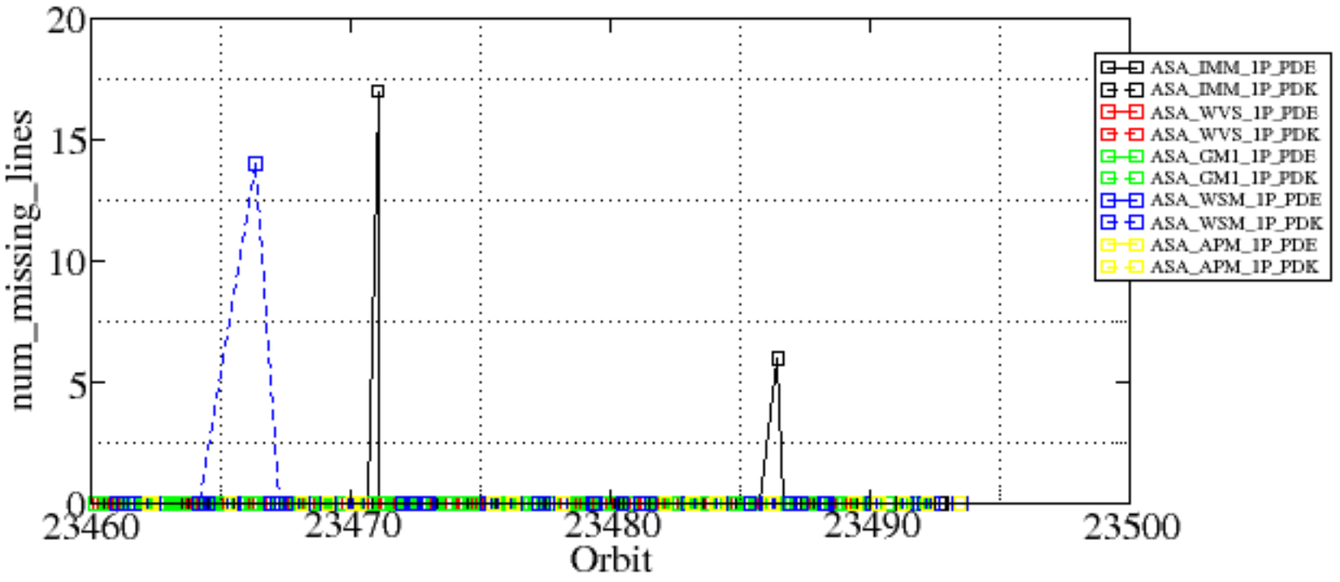
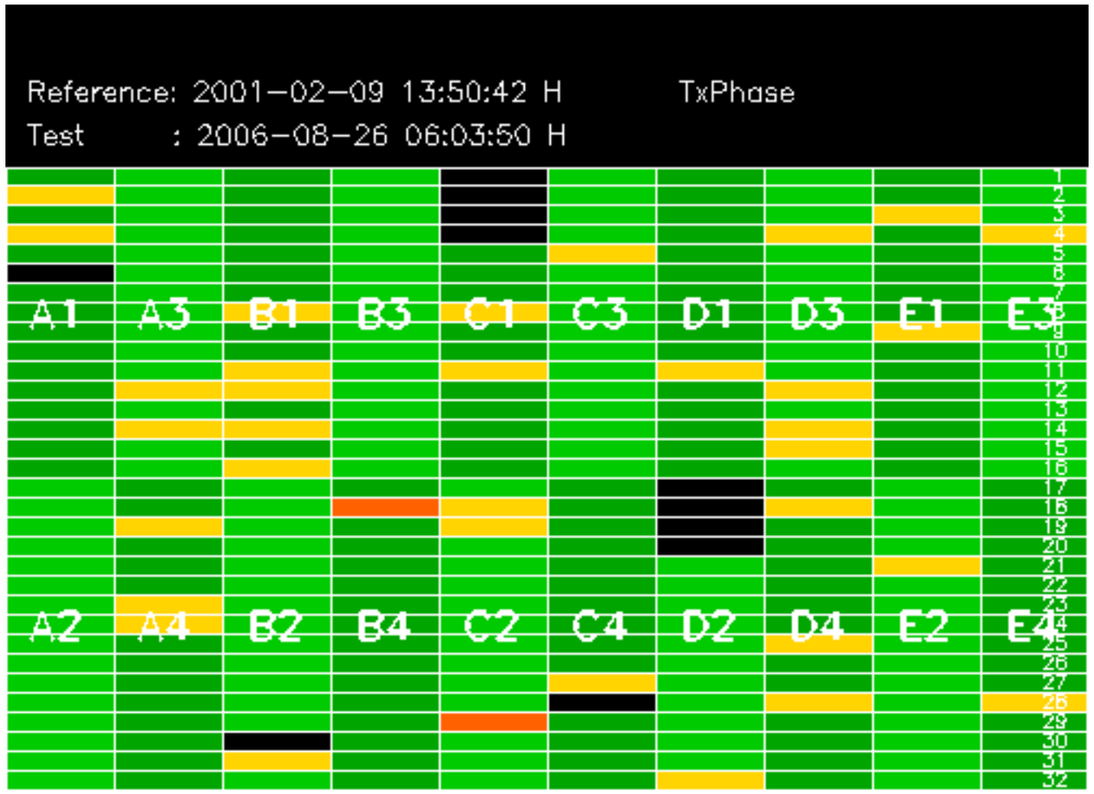
32

Summary of analysis for the last 3 days 2006082[678]
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_1PNPDE20060826_182649_000000352050_00371_23471_4533.N1 </td> <td>0 </td> <td>17 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20060827_201454_000000372050_00386_23486_4727.N1 </td> <td>0 </td> <td>6 </td></tr>
<tr> <td>ASA_WSM_1PNPDK20060826_103050_000001472050_00366_23466_4387.N1 </td> <td>0 </td> <td>14 </td></tr>
</table>


num_gaps
1
0.5
0
-0.5
-1
23460
23470
23480
23490
23500
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK


num_missing_lines
20
15
10
5
0
23460
23470
23480
23490
23500
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_GM1_1P_PDK
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE
ASA_APM_1P_PDK


Reference: 2001-02-09 13:50:42 H
Test : 2006-08-26 06:03:50 H
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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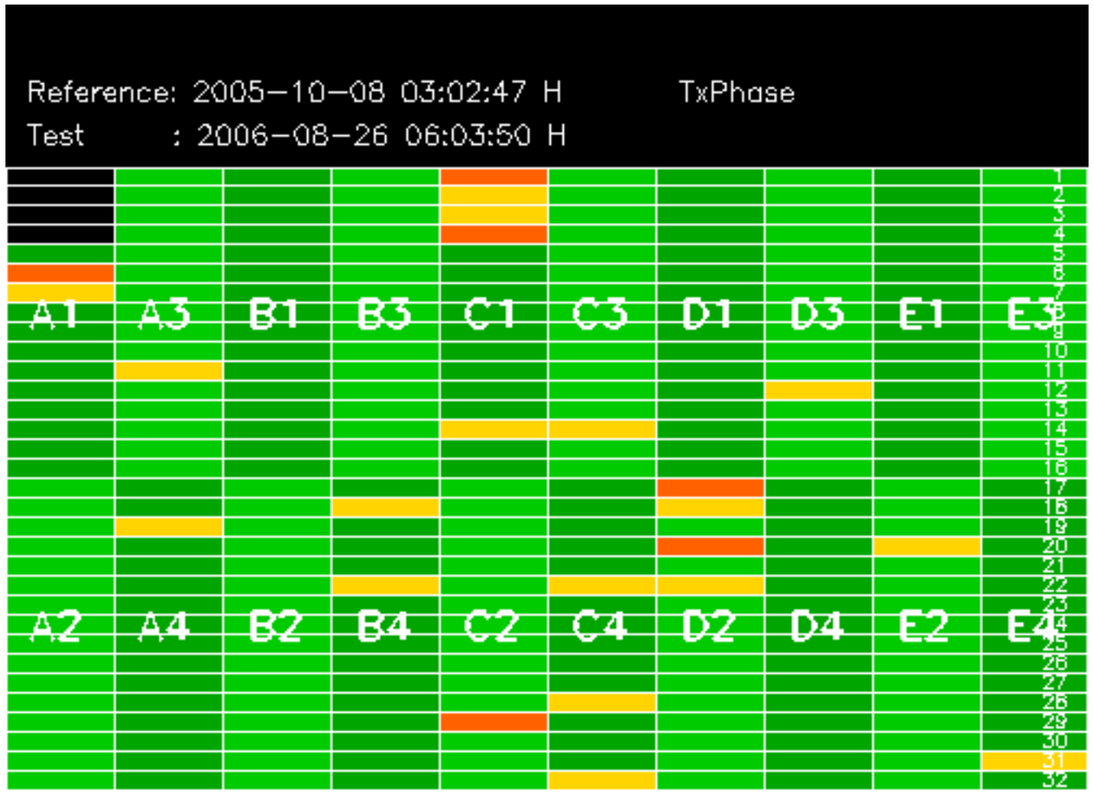
Reference: 2005-10-08 03:02:47 H
TxPhase
Test : 2006-08-26 06:03:50 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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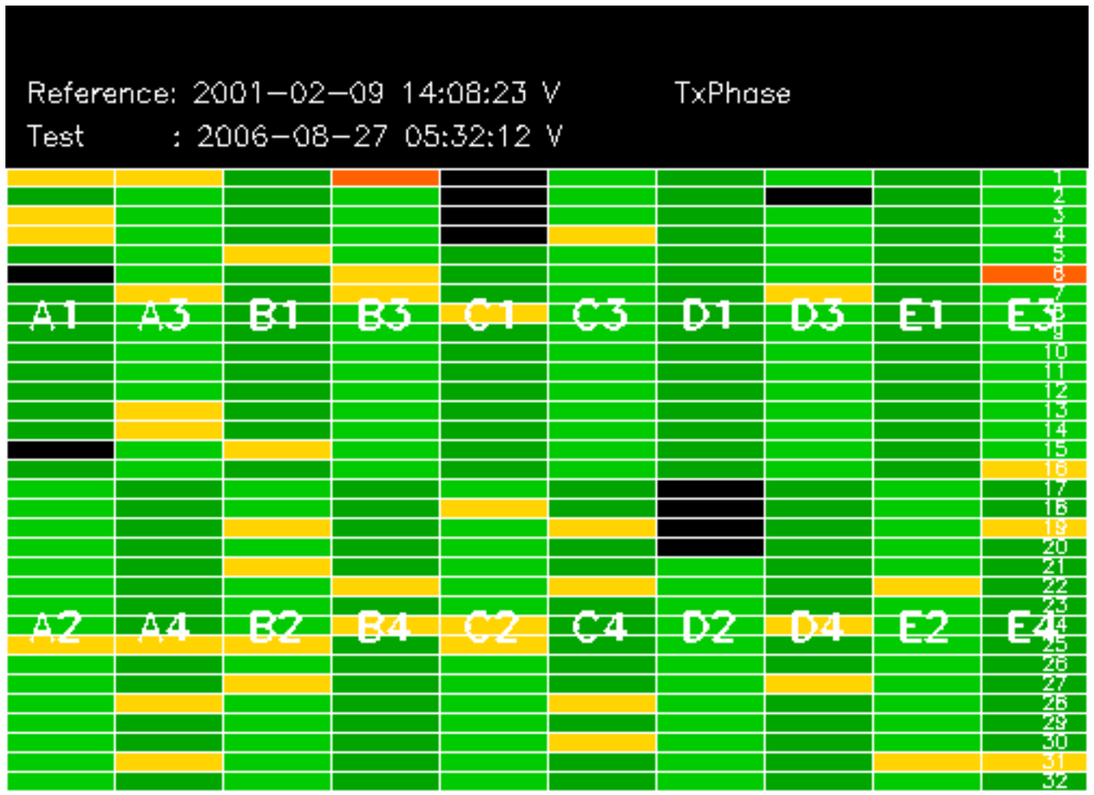
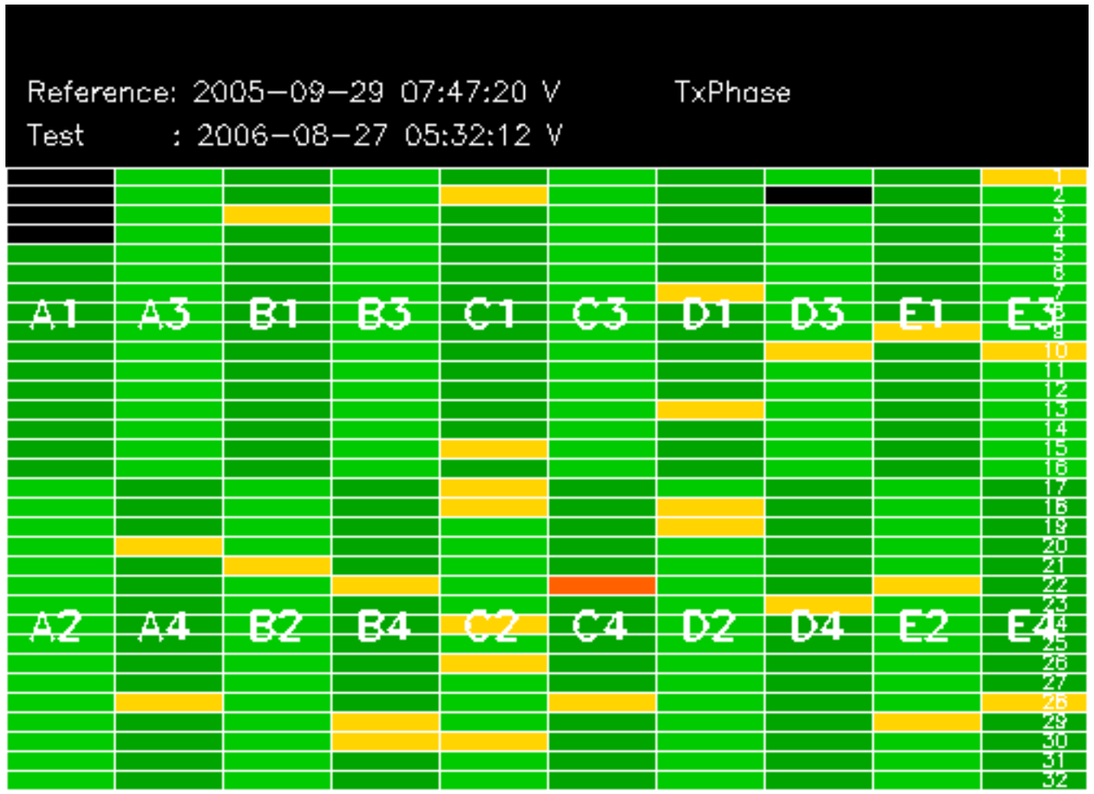

Reference: 2001-02-09 14:08:23 V
Test : 2006-08-27 05:32:12 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-08-27 05:32:12 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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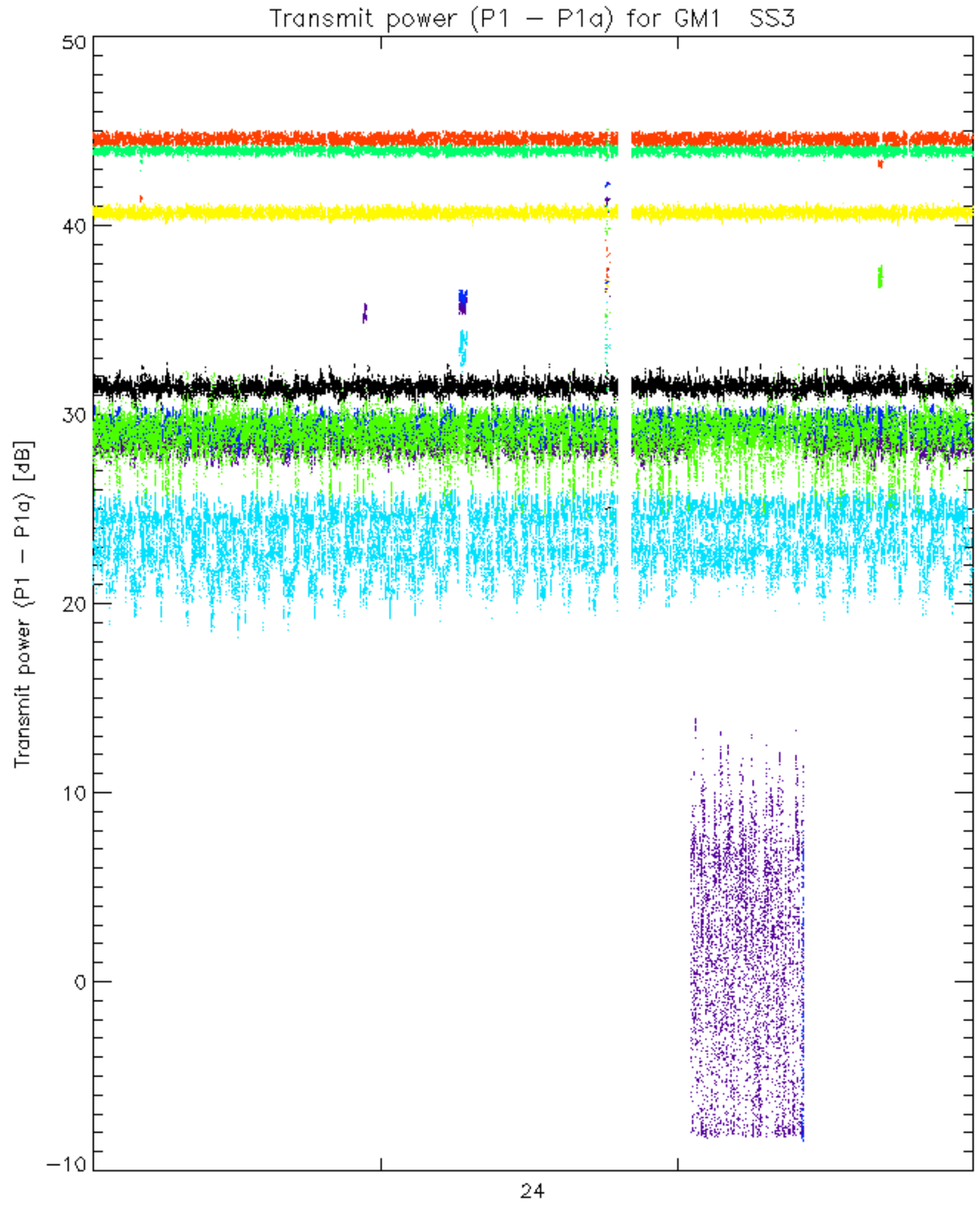
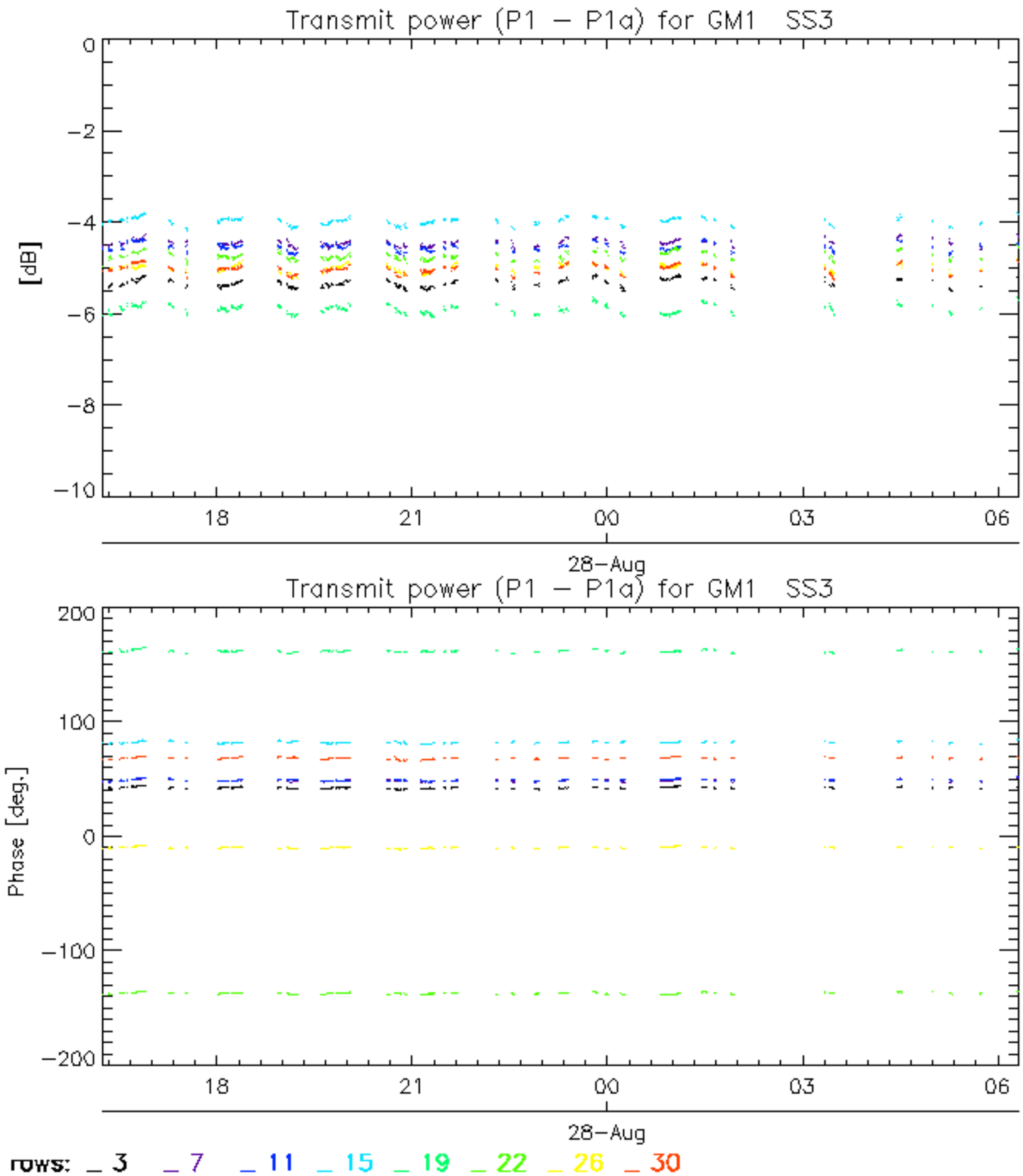
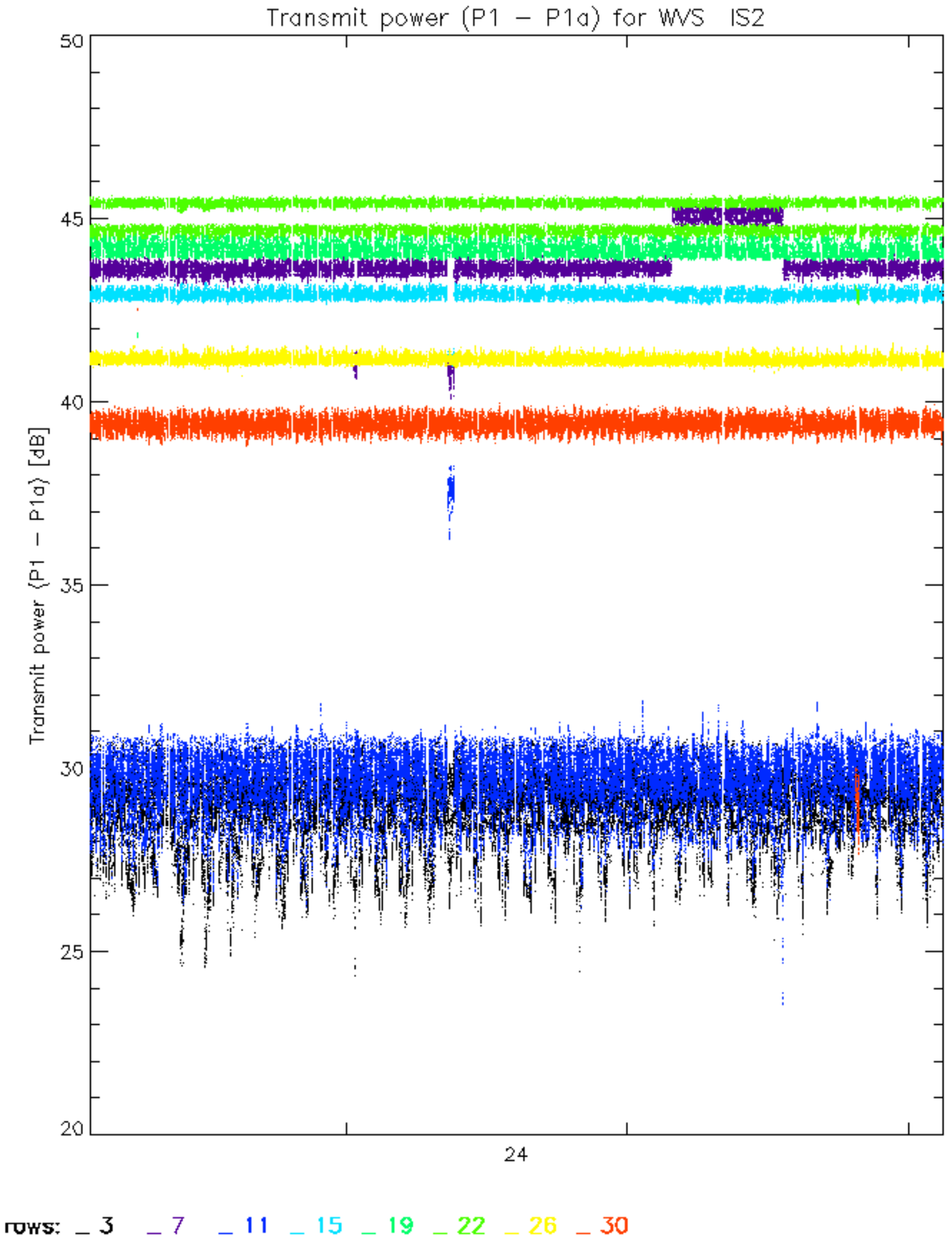
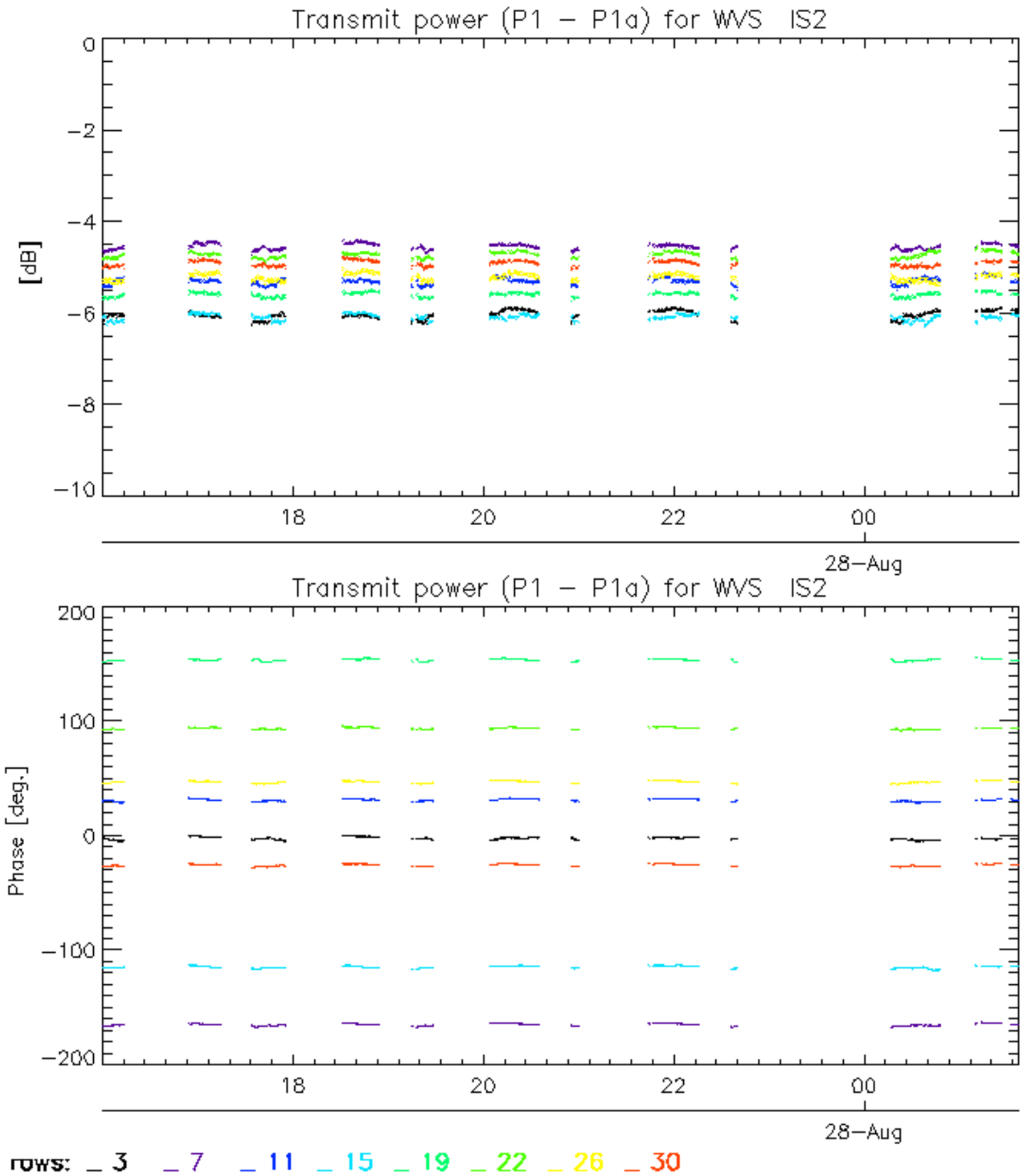

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
24
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
28–Aug
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
28–Aug
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
24
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 − P1a) for WVS IS2
0
−2
−4
−6
−8
−10
[dB]
18
20
22
00
28−Aug
Transmit power (P1 − P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
20
22
00
28−Aug
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.