PRELIMINARY REPORT OF 070130

last update on Tue Jan 30 16:15:17 GMT 2007

Due to an ASAR test acquisition campaign, the daily analysis on WVS products
will be based on IS4 instead of IS2 during the following periods:

From orbit 25621 (23-Jan-2007) to 25720 (30-Jan-2007) in HH polarization
From orbit 26122 (27-Feb-2007) to 26221 (06-Mar-2007) in HH polarization
From orbit 25721 (30-Jan-2007) to 25820 (06-Feb-2007) in VV polarization
From orbit 26222 (06-Mar-2007) to 26321 (13-Mar-2007) in VV polarization

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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 2007-01-29 00:00:00 to 2007-01-30 16:15:17

PDHS-K					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	38	64	6	3	21
ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000	38	64	6	3	21
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	38	64	6	3	21
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	38	64	6	3	21

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	46	53	41	16	59
ASA_XCA_AXVIEC20061221_143253_20050916_195733_20071231_000000	46	53	41	16	59
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	46	53	41	16	59
ASA_INS_AXVIEC20061220_105425_20030211_000000_20071231_000000	46	53	41	16	59

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	20070130 085026
H	20070129 092202

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)
3	P1a	-11.686784	0.045172	0.571133
7	P1a	-10.006898	0.041980	0.059893
11	P1a	-10.516440	0.055181	-0.279926
15	P1a	-10.784784	0.116787	-0.669417
19	P1a	-15.795220	0.064180	0.018290
22	P1a	-21.500517	1.916470	1.226271
26	P1a	-15.563133	0.363151	0.446275
30	P1a	-18.151175	0.292759	-0.403856

P1\t Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-4.330388	0.181217	-6.502965
7	P1	-2.542039	0.005243	0.039415
11	P1	-2.956552	0.011496	-0.066844
15	P1	-3.750484	0.020805	-0.206875
19	P1	-3.617215	0.014548	-0.085827
22	P1	-5.096692	0.019539	-0.078838
26	P1	-5.987638	0.021336	-0.053679
30	P1	-5.317578	0.042085	0.271149

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.212727	0.092432	-0.071651
7	P2	-22.106678	0.132714	0.045524
11	P2	-10.988797	0.079856	0.064371
15	P2	-5.153516	0.102149	0.038117

19	P2	-7.279546	0.085461	-0.011034
22	P2	-8.343927	0.080875	-0.011497
26	P2	-24.341946	0.071564	-0.133704
30	P2	-21.703453	0.076121	0.045325

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.226125	0.007500	-0.007978
7	P3	-8.226125	0.007500	-0.007978
11	P3	-8.226125	0.007500	-0.007978
15	P3	-8.226125	0.007500	-0.007978
19	P3	-8.226125	0.007500	-0.007978
22	P3	-8.226125	0.007500	-0.007978
26	P3	-8.226125	0.007500	-0.007978
30	P3	-8.226125	0.007500	-0.007978

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1a	-11.735881	0.047271	0.658334
7	P1a	-10.016149	0.038902	0.471428
11	P1a	-10.480932	0.057787	0.359937
15	P1a	-10.817729	0.131066	-0.051650
19	P1a	-15.746643	0.062876	-0.424163
22	P1a	-21.036175	1.447687	1.039974
26	P1a	-15.523198	0.260839	-0.467755
30	P1a	-18.301388	0.363017	-0.137267

P1\t Cyclic statistics

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

3	P1	-4.163916	0.159290	-5.115830
7	P1	-2.439994	0.006091	0.111547
11	P1	-2.848399	0.016064	0.255031
15	P1	-3.766030	0.032078	0.084834
19	P1	-3.547823	0.014111	-0.130670
22	P1	-5.022939	0.023961	0.144236
26	P1	-6.000250	0.022149	-0.371709
30	P1	-5.294882	0.026012	-0.187482

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.291691	0.031345	-0.395275
7	P2	-22.039850	0.048477	-0.546277
11	P2	-10.703318	0.030716	-0.478553
15	P2	-4.846220	0.027708	-0.290305
19	P2	-6.847956	0.028089	-0.404760
22	P2	-8.151851	0.028796	-0.366545
26	P2	-24.260460	0.031570	-0.455920
30	P2	-21.803057	0.034401	-0.062832

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.057550	0.002585	-0.068688
7	P3	-8.057346	0.002576	-0.071314
11	P3	-8.057529	0.002578	-0.065194
15	P3	-8.057459	0.002573	-0.069277
19	P3	-8.057333	0.002568	-0.066486
22	P3	-8.057600	0.002589	-0.069550
26	P3	-8.057553	0.002578	-0.070432
30	P3	-8.057539	0.002573	-0.068462

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS

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	0.000658718
	stdev	2.43414e-07
MEAN Q	mean	0.000355052
	stdev	1.65725e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.0567038
	stdev	0.00109597
STDEV Q	mean	0.0563256
	stdev	0.00110359

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2007012[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_1PNPDE20070120_015157_000000532054_00461_25565_3990.N1	1	0
ASA_GM1_1PNPDK20070120_131030_000008632054_00468_25572_5436.N1	0	17
ASA_GM1_1PNPDK20070129_101419_000004832055_00094_25699_7395.N1	0	7
ASA_WSM_1PNPDE20070129_145855_000002872055_00097_25702_8748.N1	0	39

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

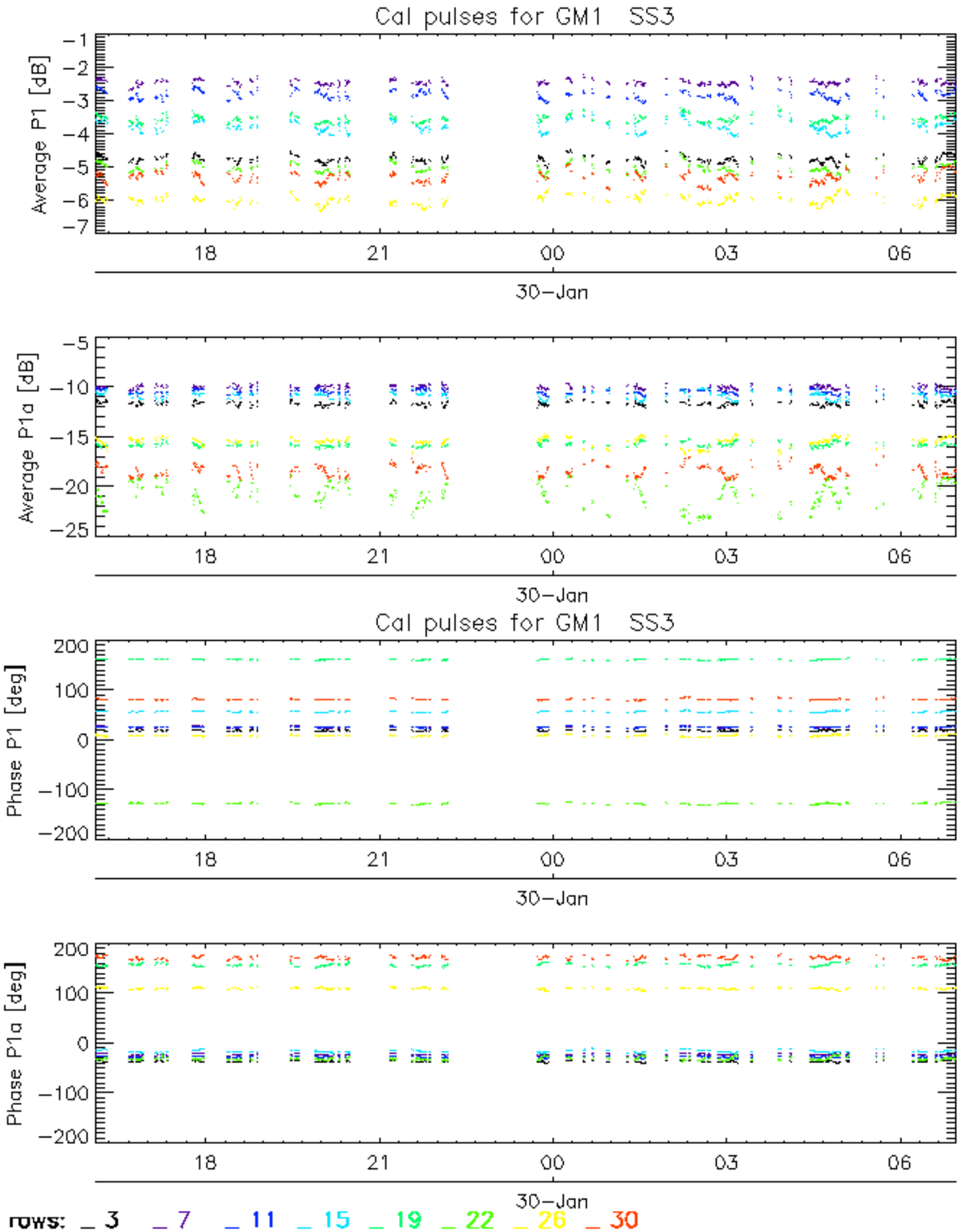
Evolution of Absolute Doppler

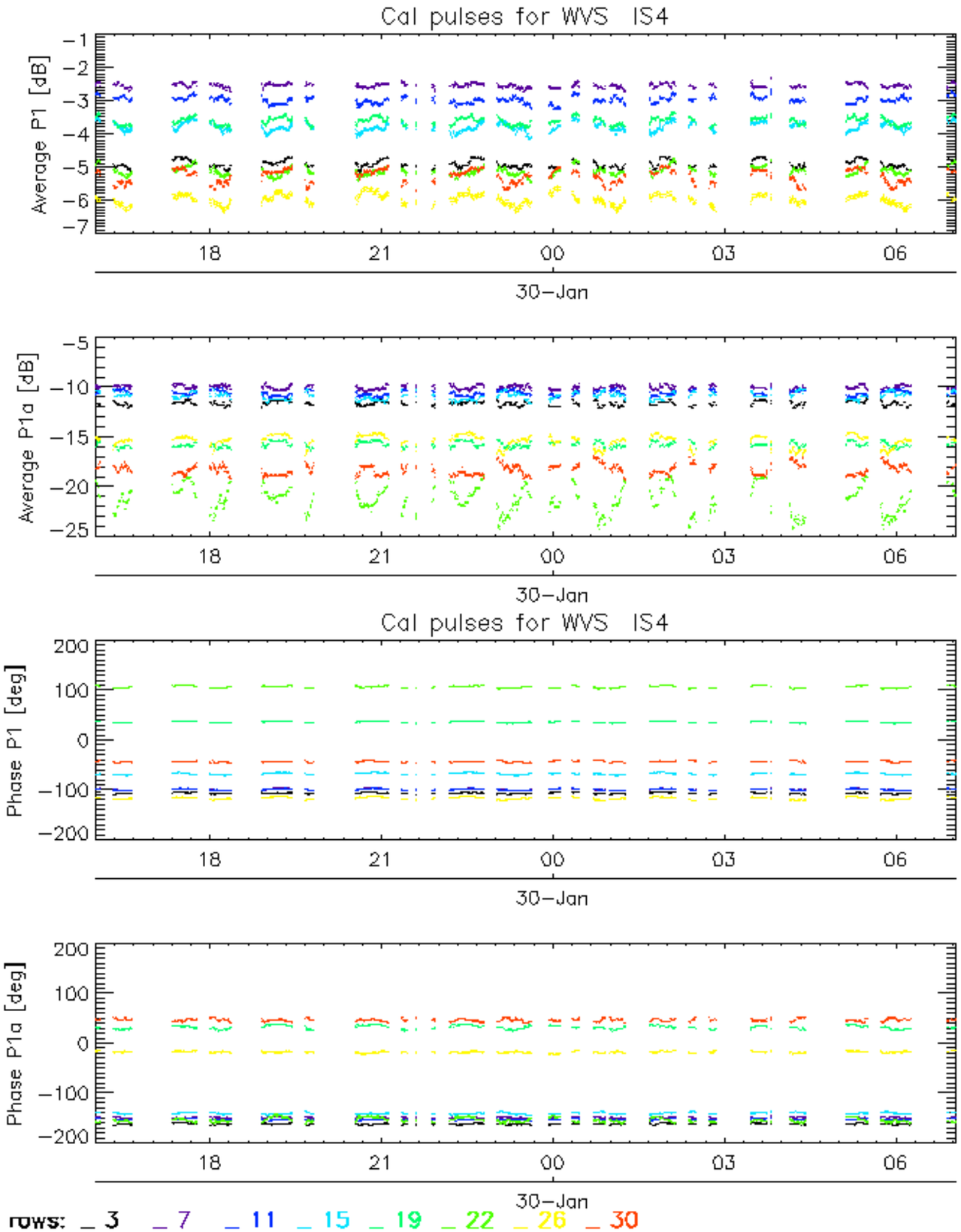
Acsending

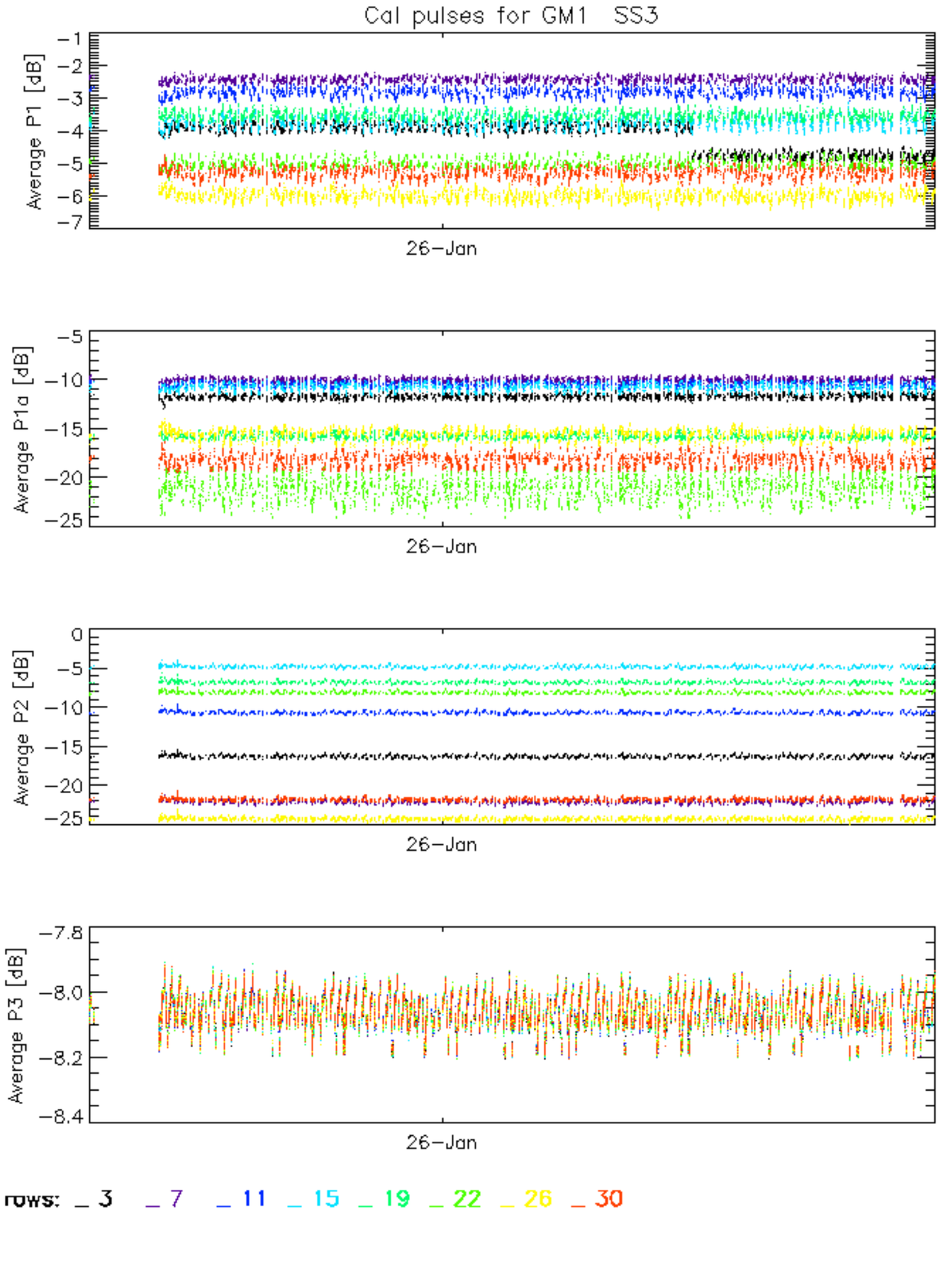
Descending

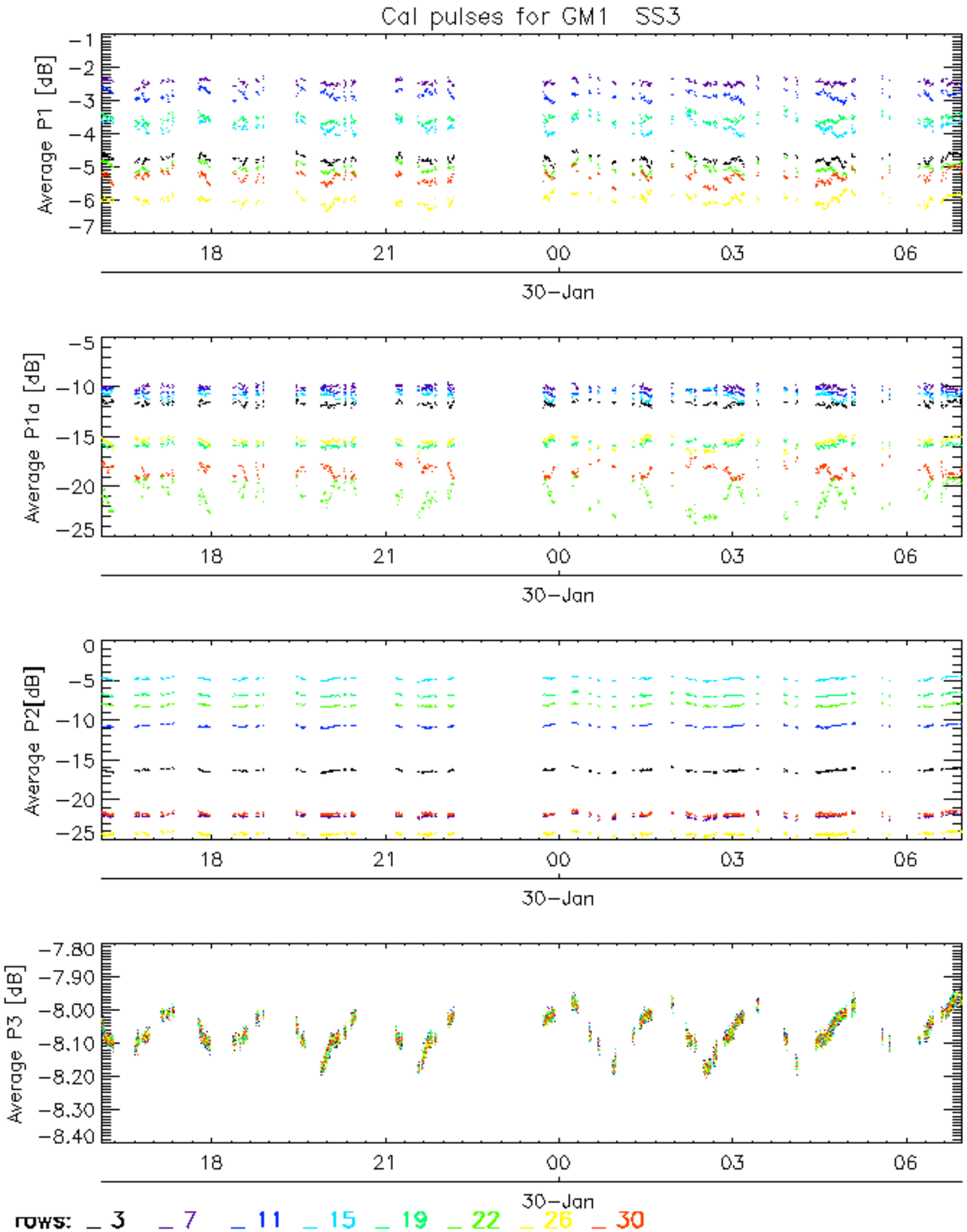
7.6 - Doppler evolution versus ANX for GM1

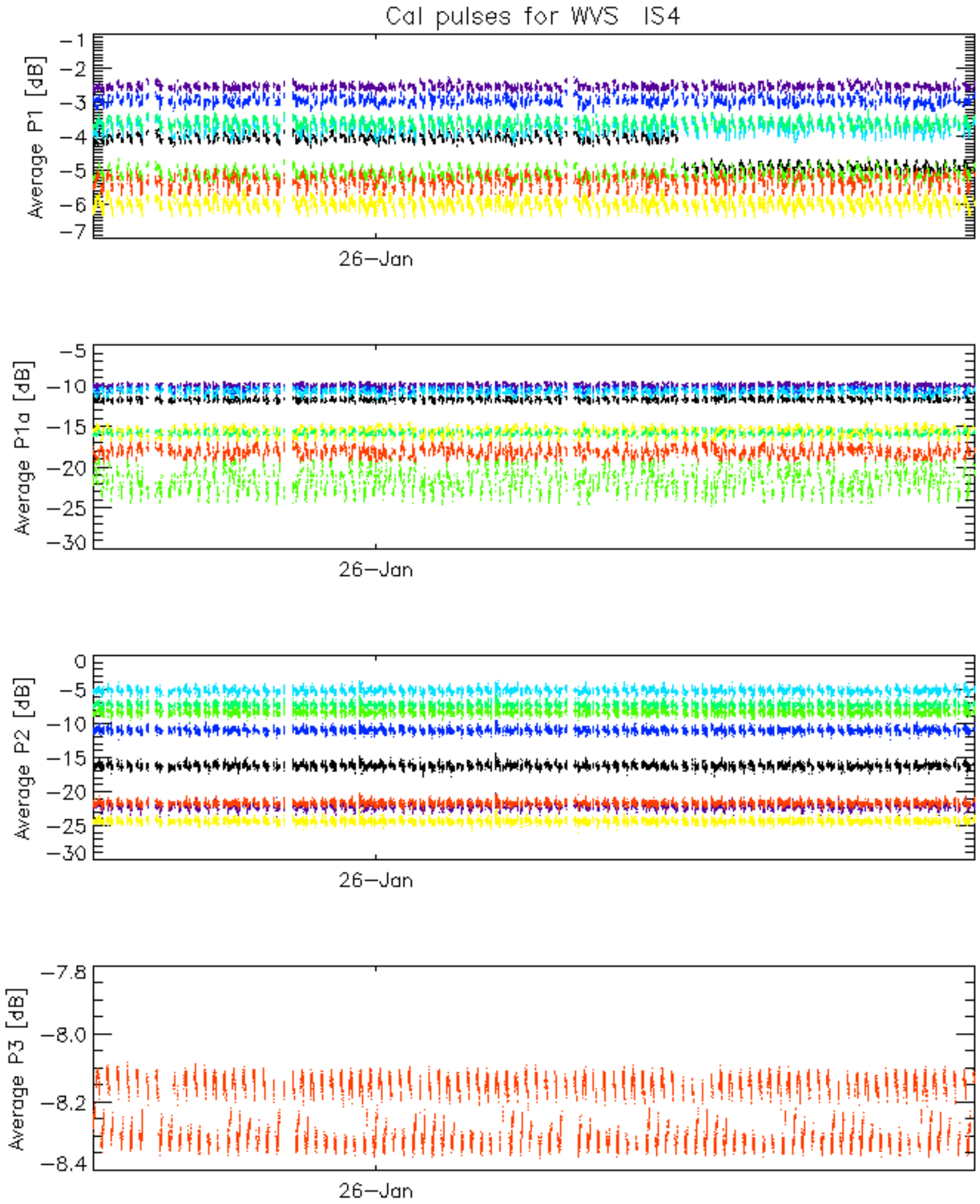
Evolution Doppler error versus ANX

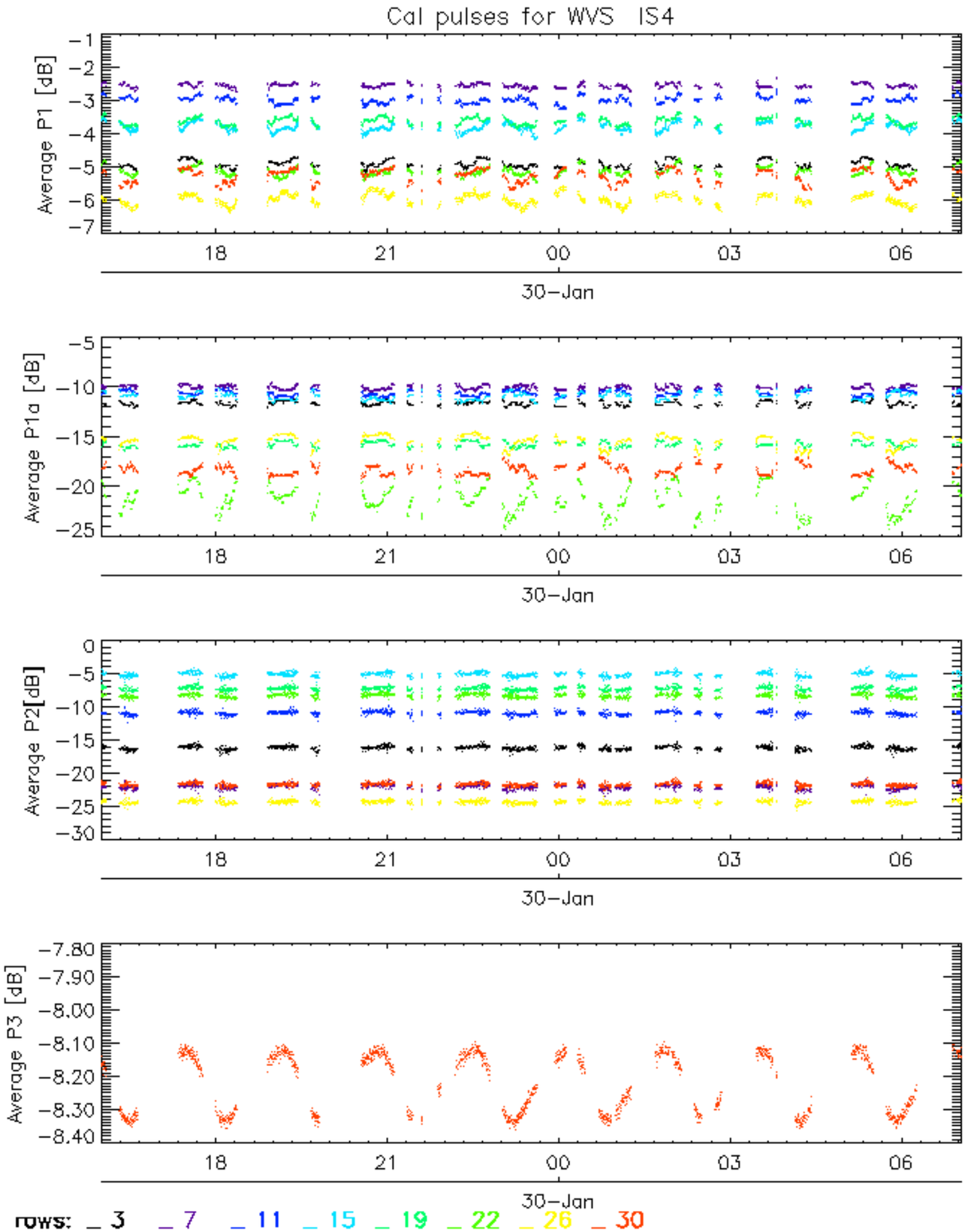


Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
30−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
30−Jan
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
30−Jan
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
30−Jan
rows: _ 3 _ 7 _ 11 _ 15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


Cal pulses for WVS IS4
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
30−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
30−Jan
Cal pulses for WVS IS4
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
30−Jan
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
30−Jan
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

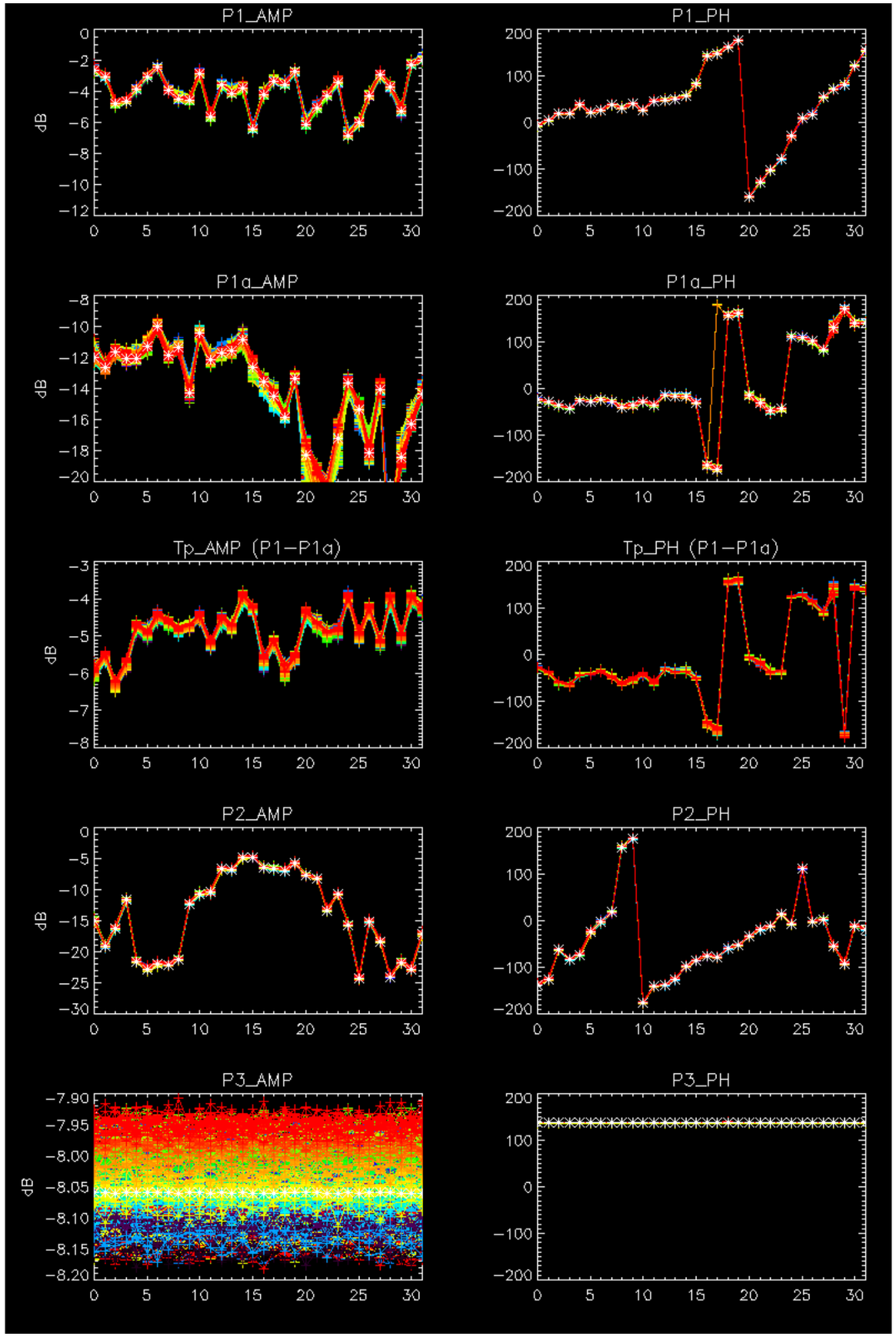

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
30−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
30−Jan
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
30−Jan
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
30−Jan
rows: _ 3 _ 7 _ 11 _ 15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

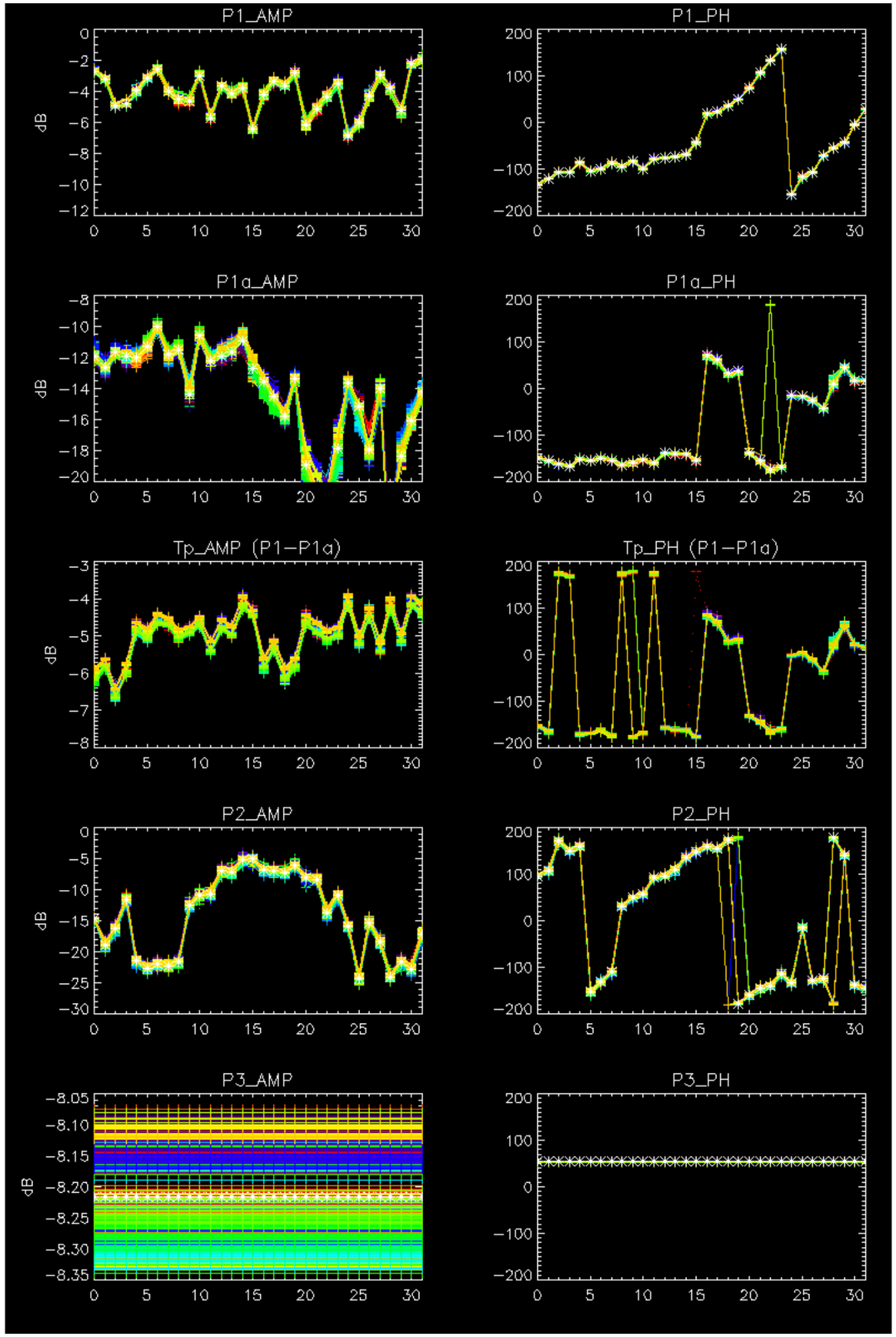

Cal pulses for WVS IS4
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
26−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
−30
26−Jan
Average P2 [dB]
0
−5
−10
−15
−20
−25
−30
26−Jan
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
26−Jan
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


Cal pulses for WVS IS4
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
18
21
00
03
06
30−Jan
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
30−Jan
Average P2[dB]
0
−5
−10
−15
−20
−25
−30
18
21
00
03
06
30−Jan
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
30−Jan
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

No anomalies observed on available browse products

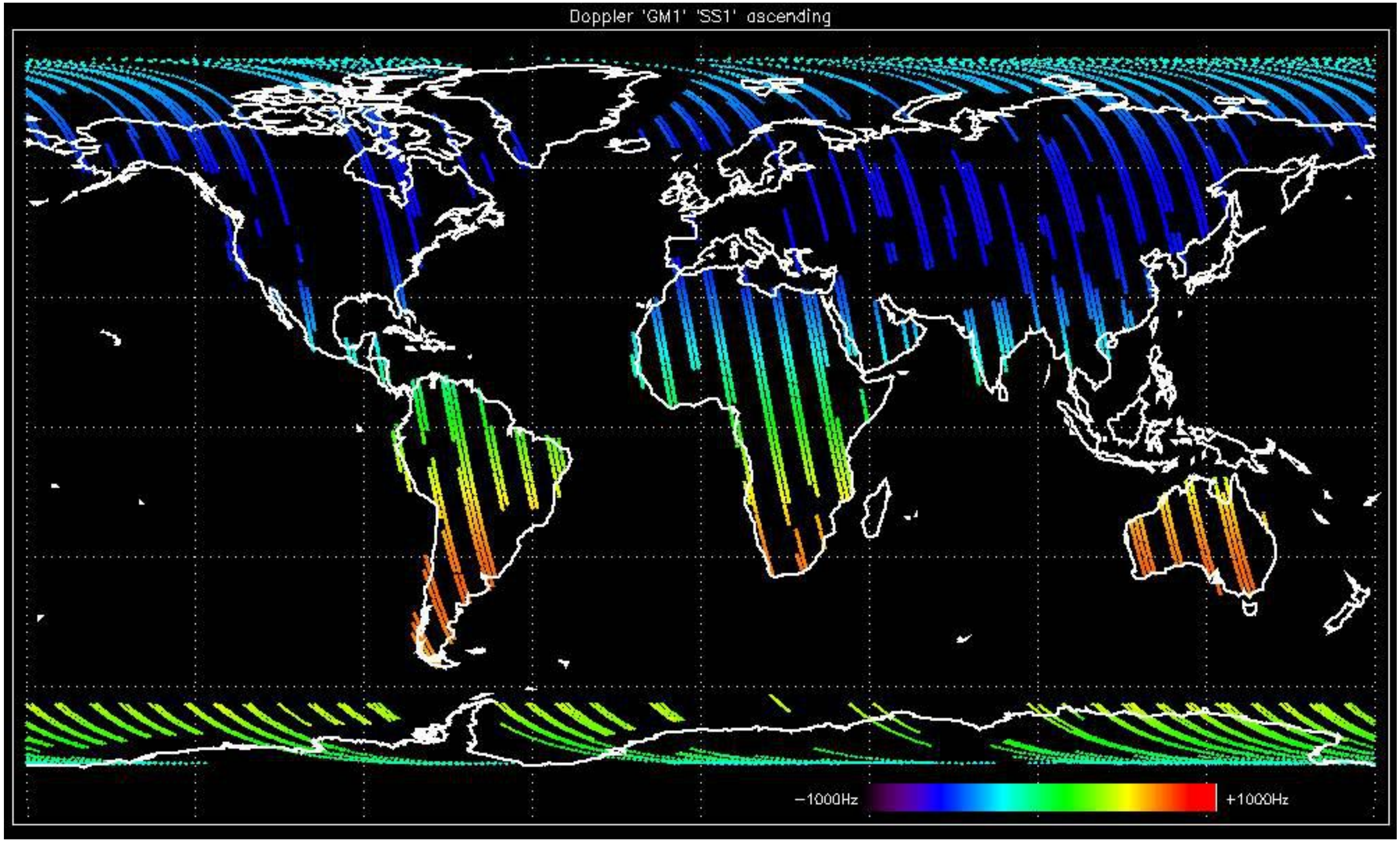
No anomalies observed.

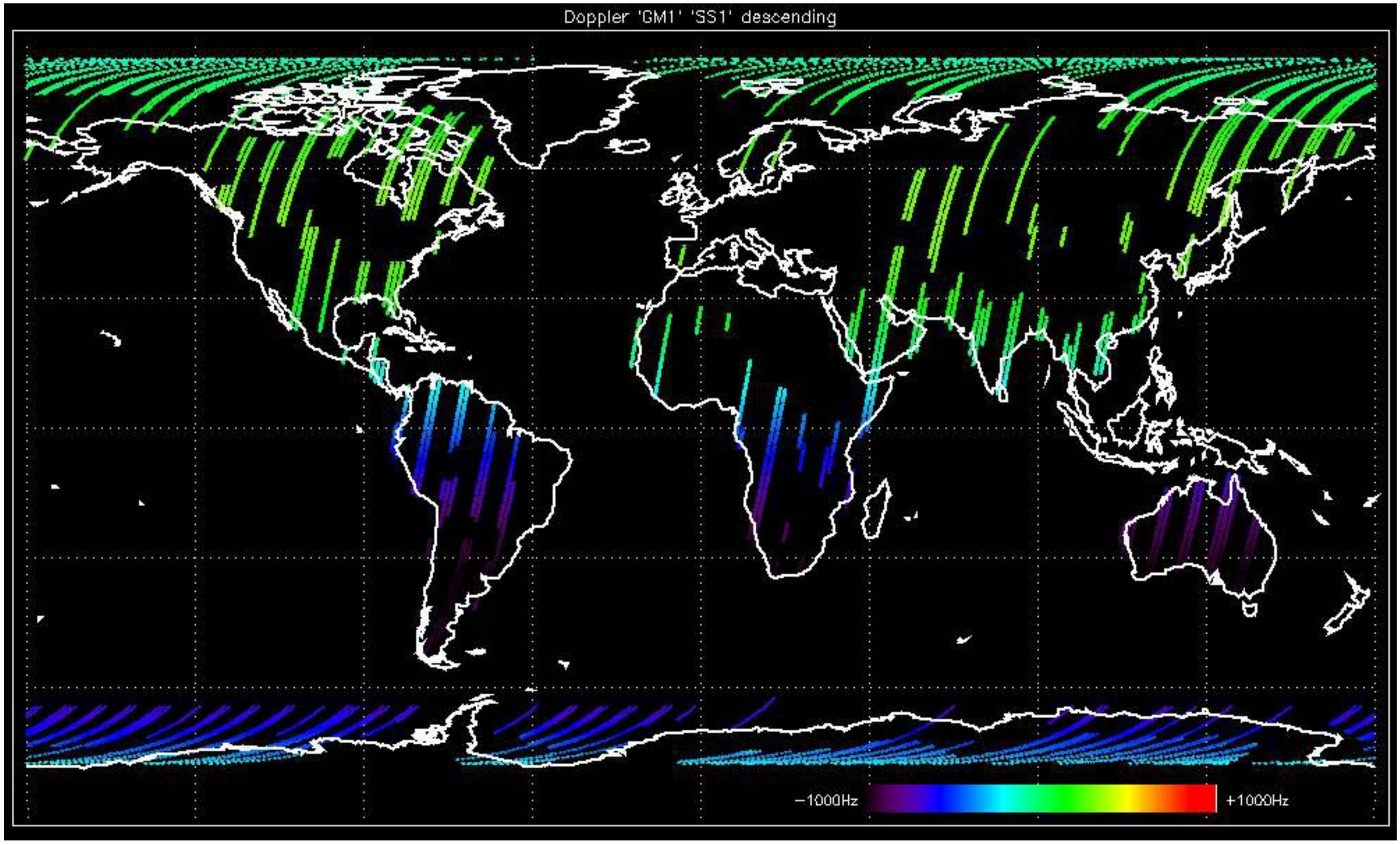

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

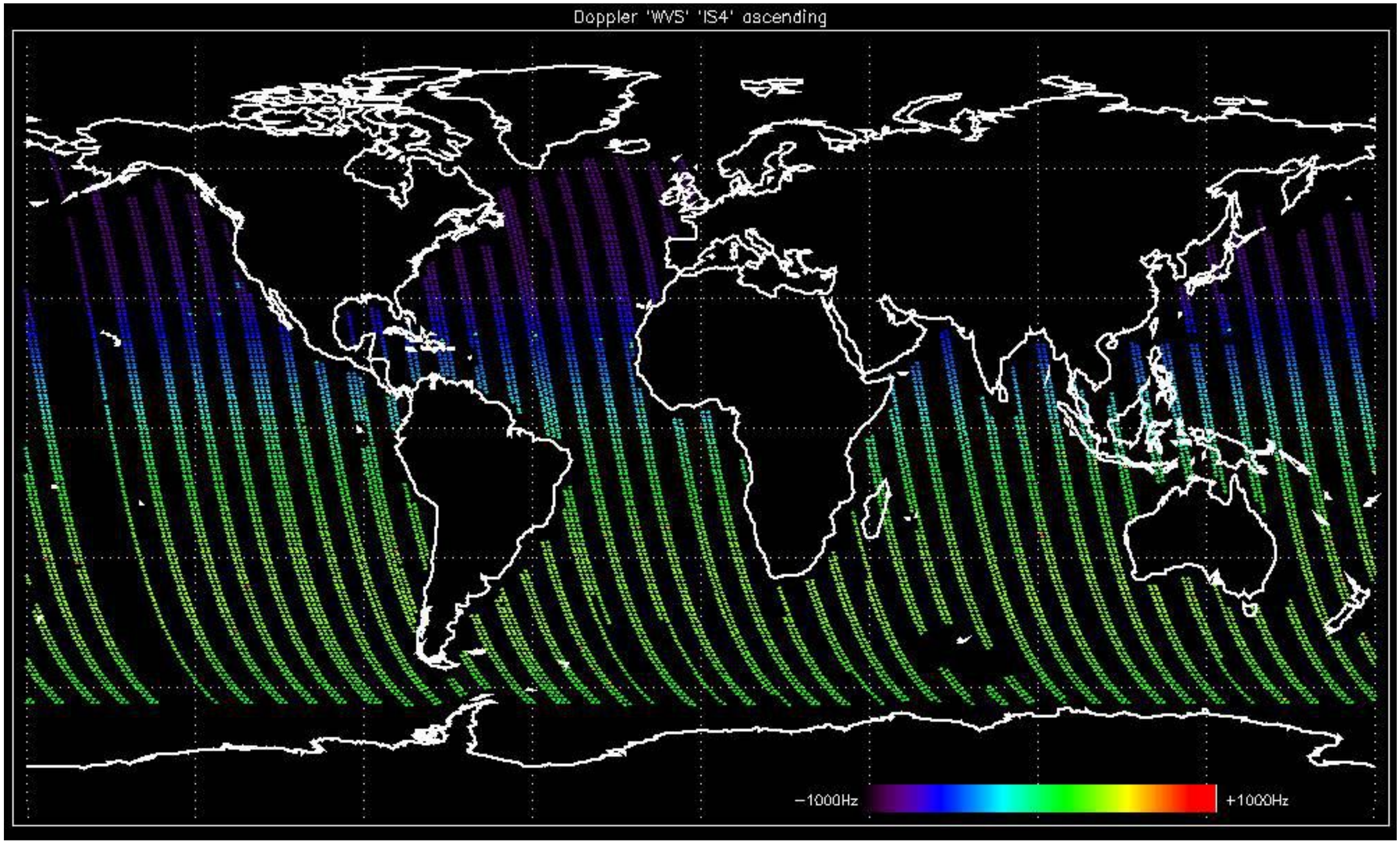

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

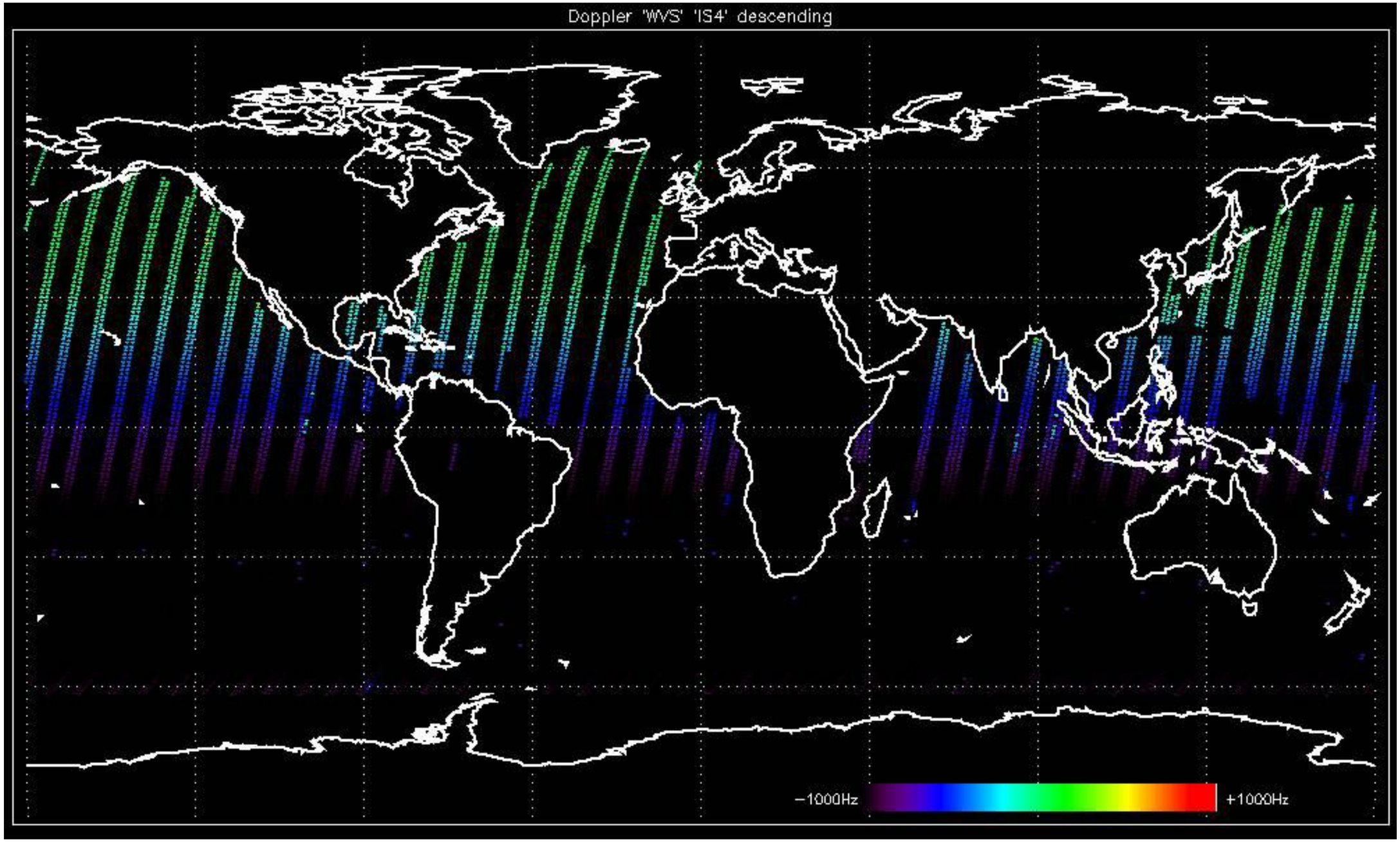
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

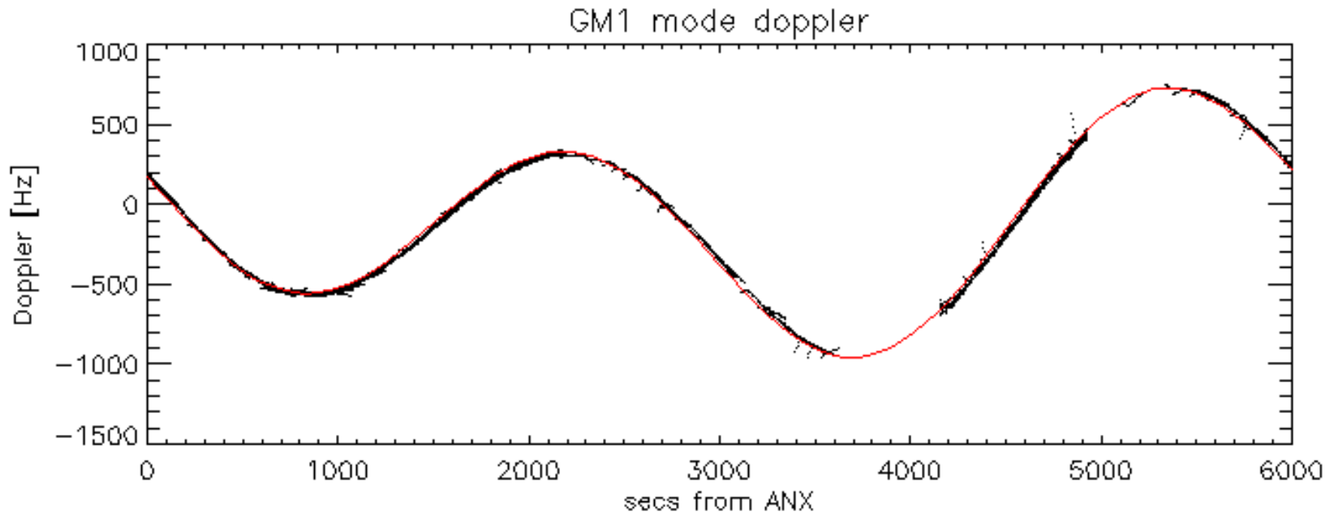
Preliminary report.The data is not yet controled

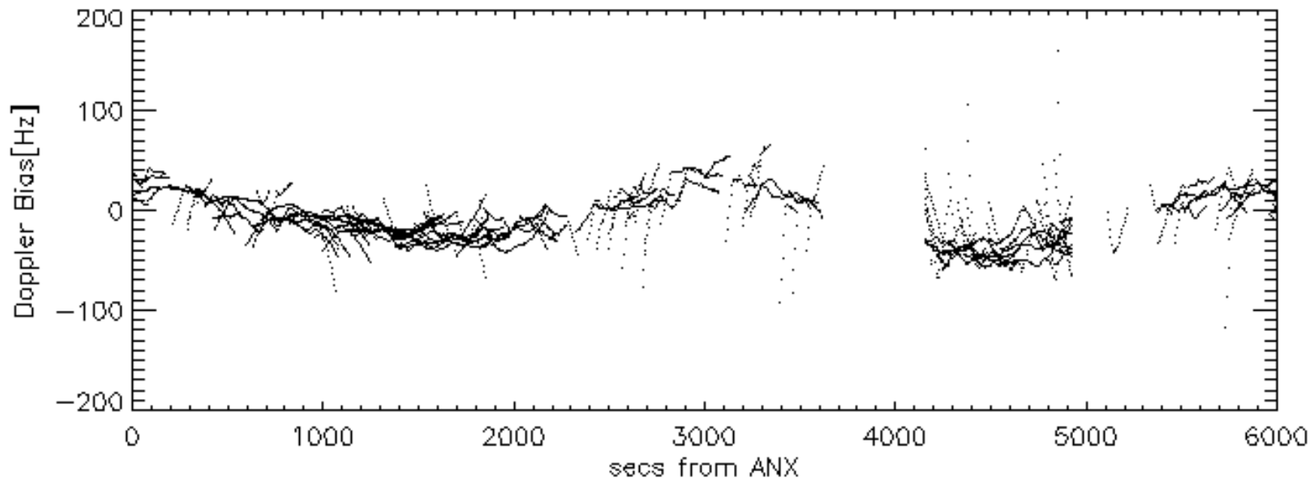

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

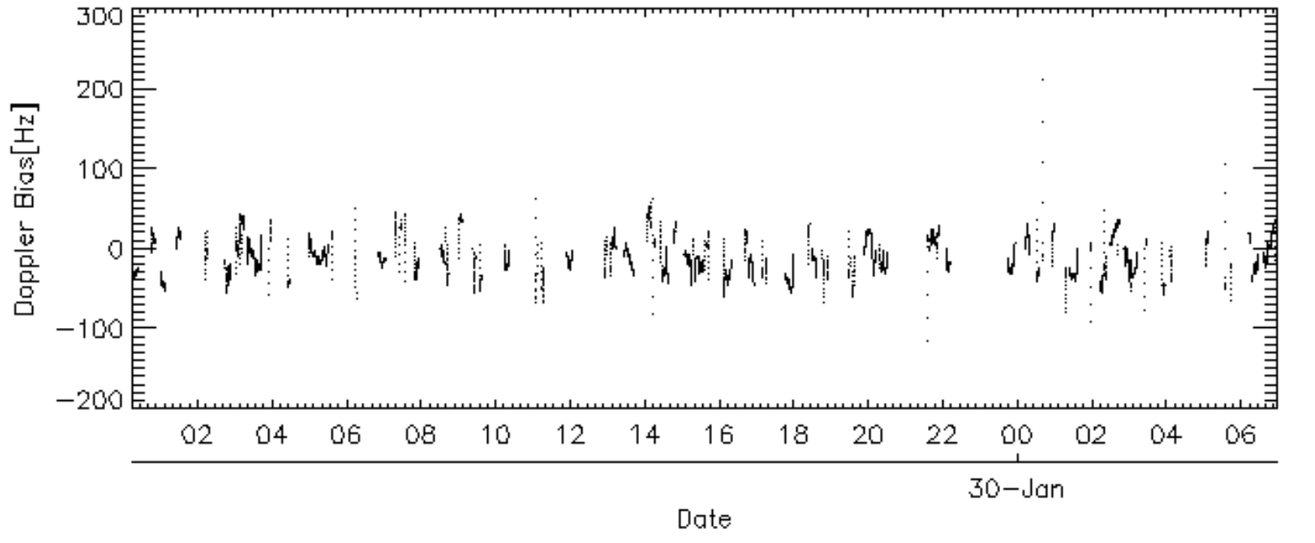

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

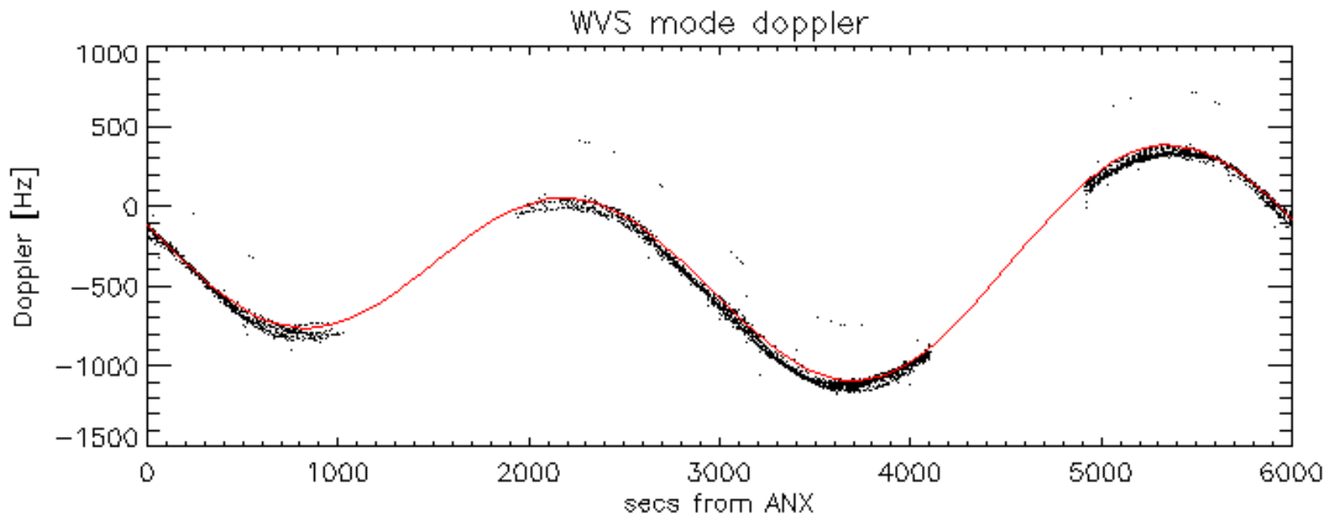

Doppler 'WVS' 'IS4' ascending
−1000Hz
+1000Hz

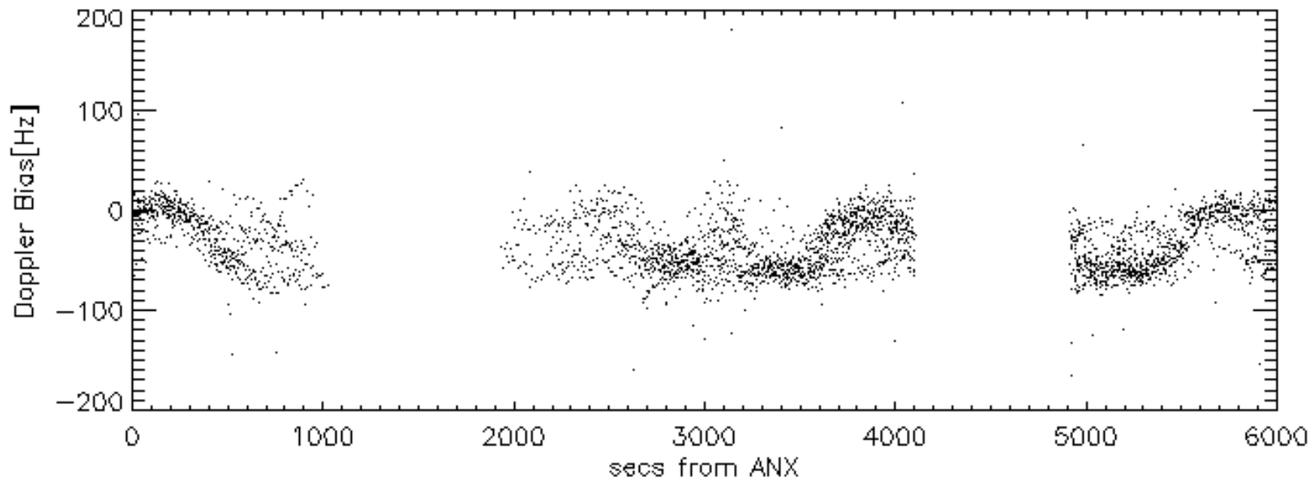

Doppler 'WVS' 'IS4' descending
−1000Hz
+1000Hz

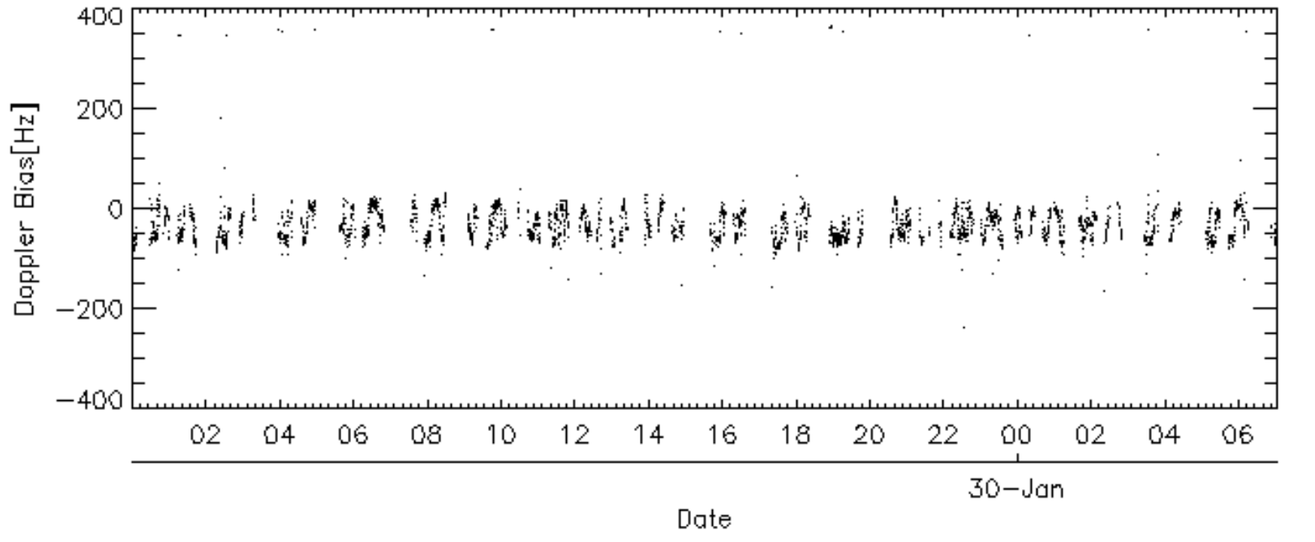

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

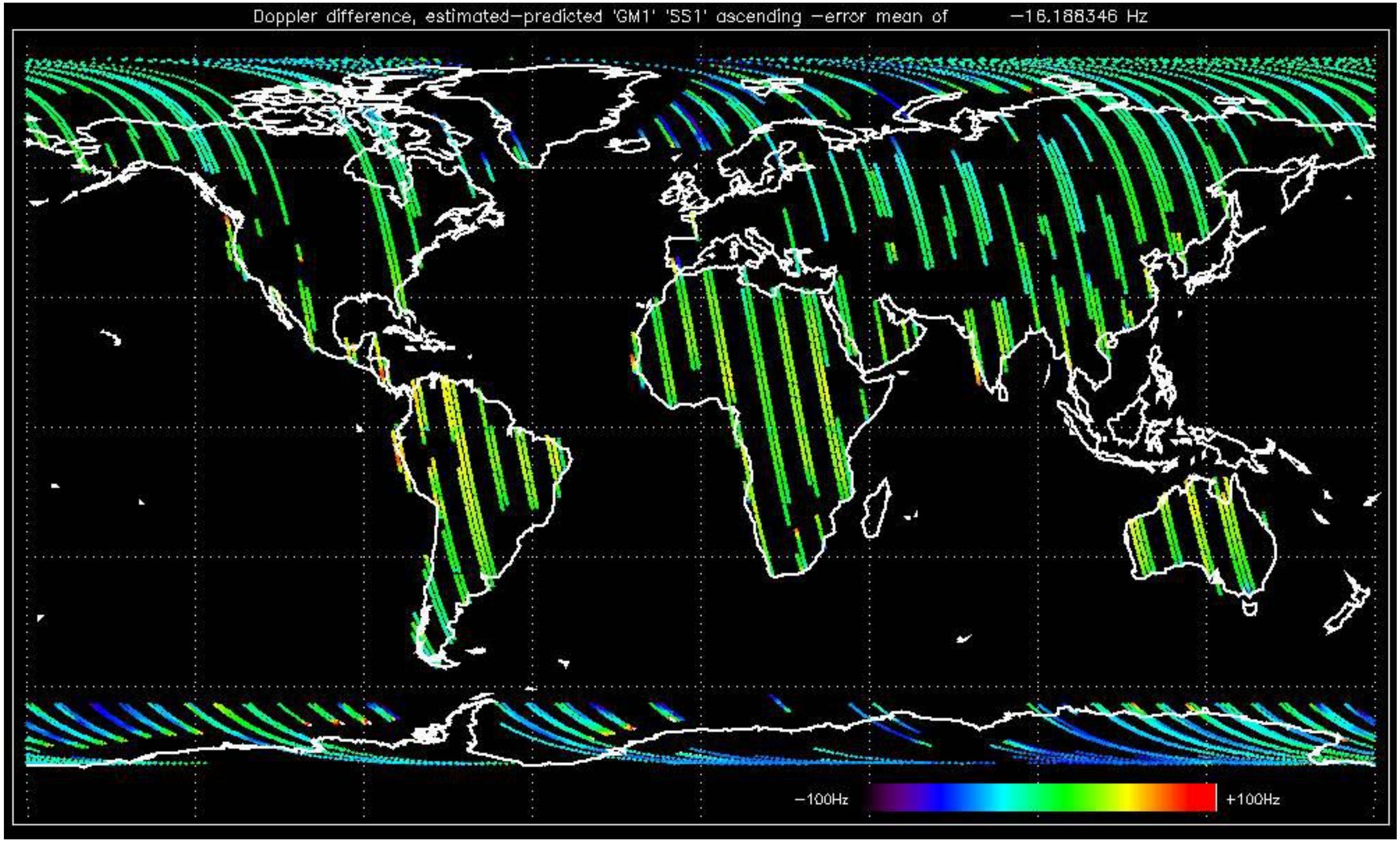

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

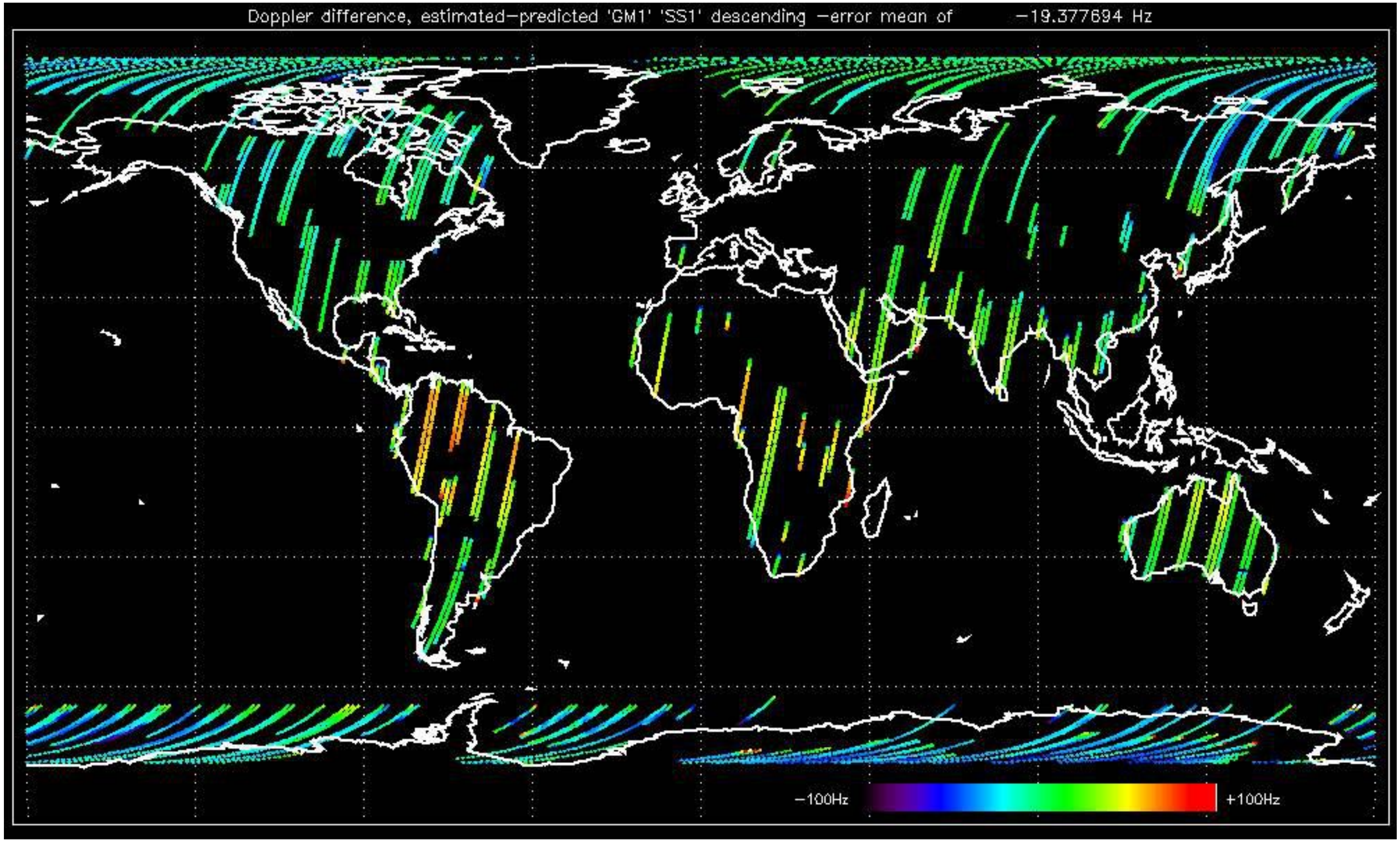

Doppler Bias[Hz]
300
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
30−Jan
Date

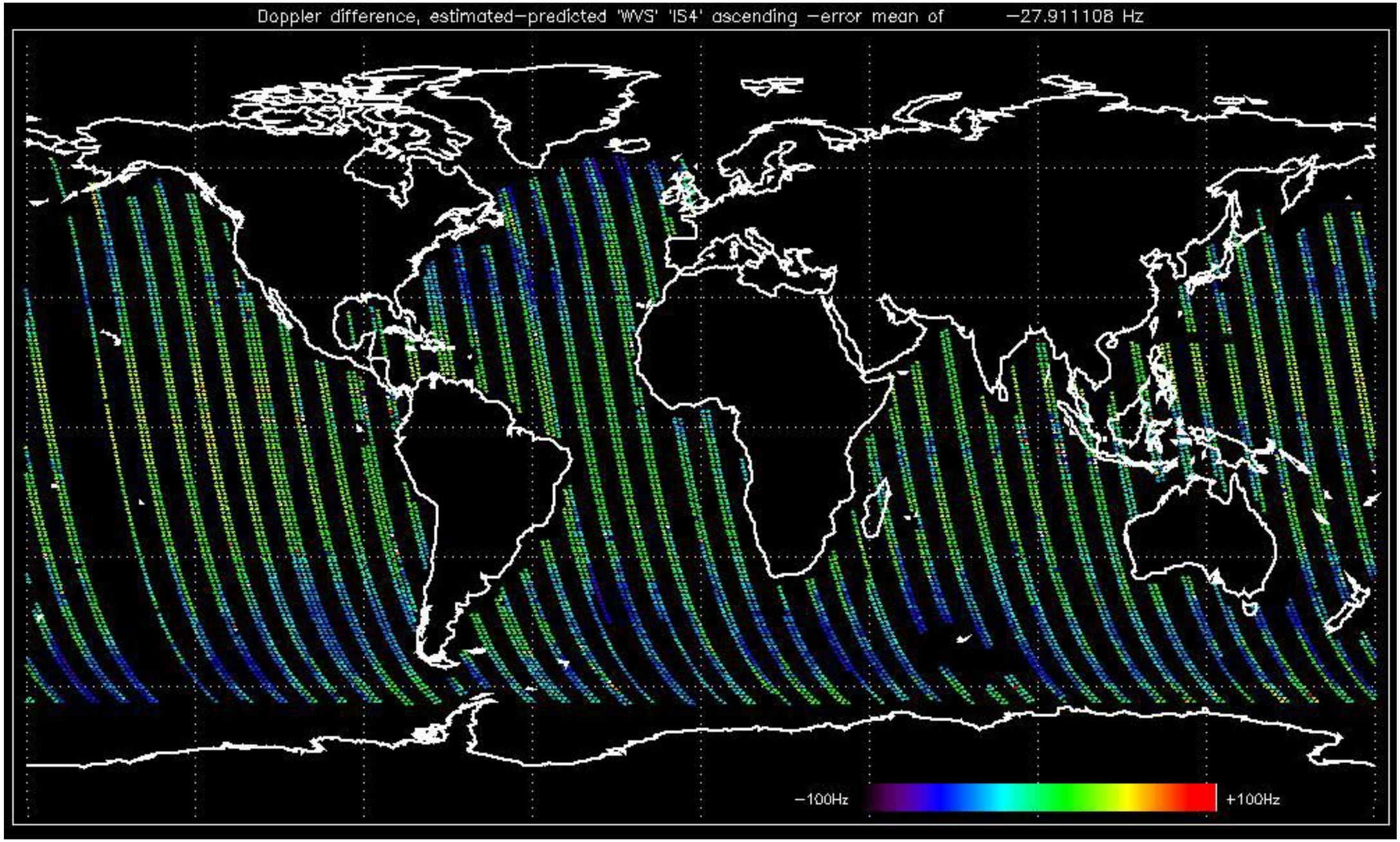

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

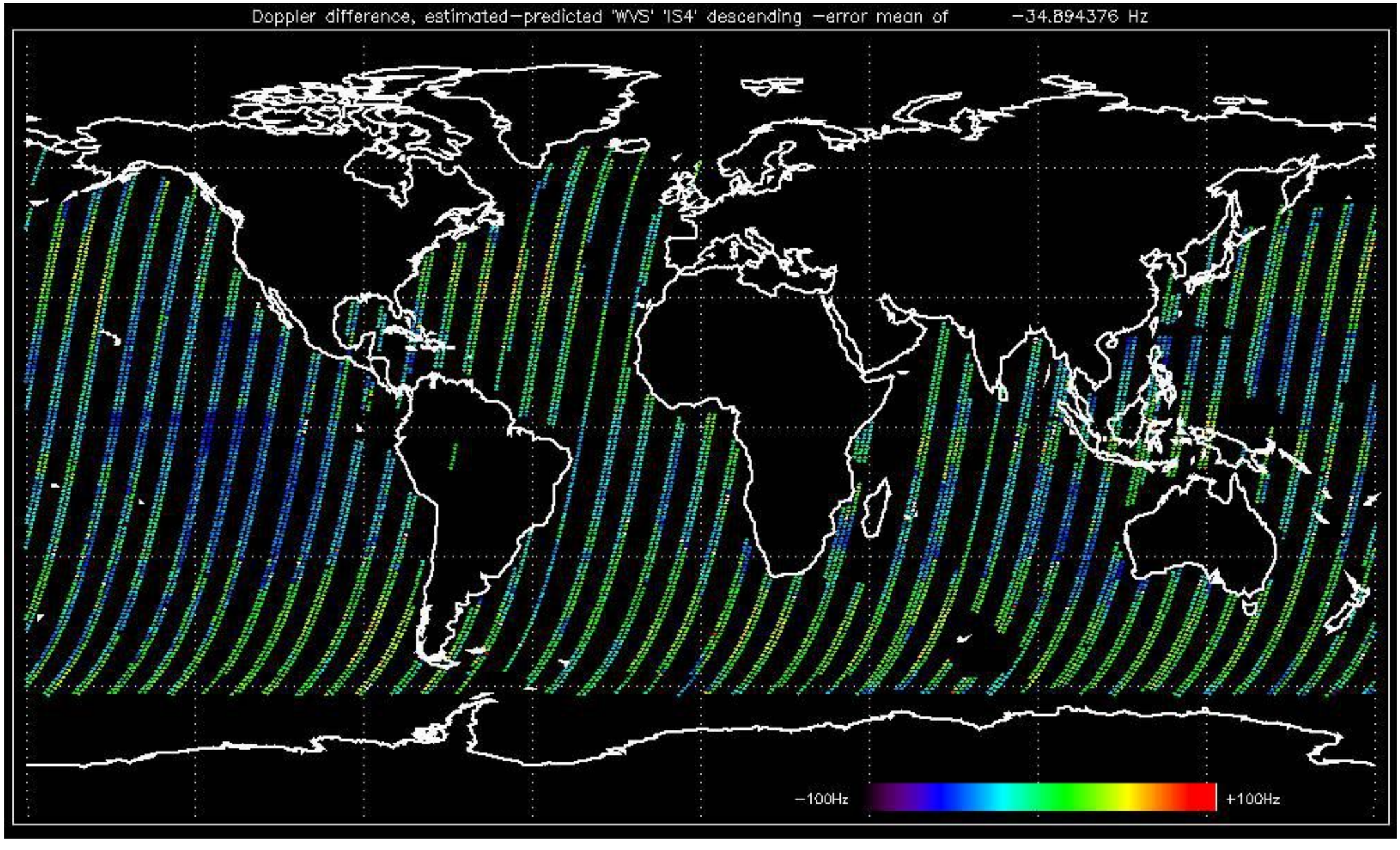

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −16.188346 Hz
−100Hz
+100Hz

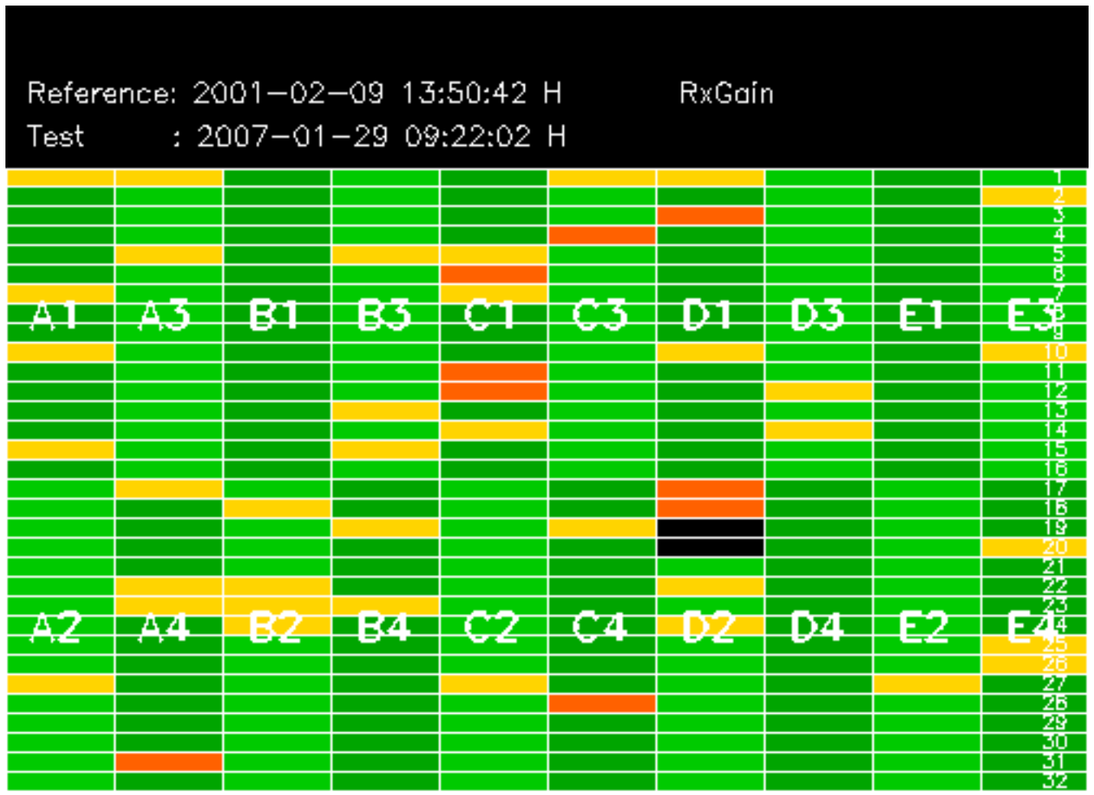

Doppler difference, estimated-predicted 'GM1' 'SS1' descending -error mean of -19.377694 Hz
-100Hz
+100Hz

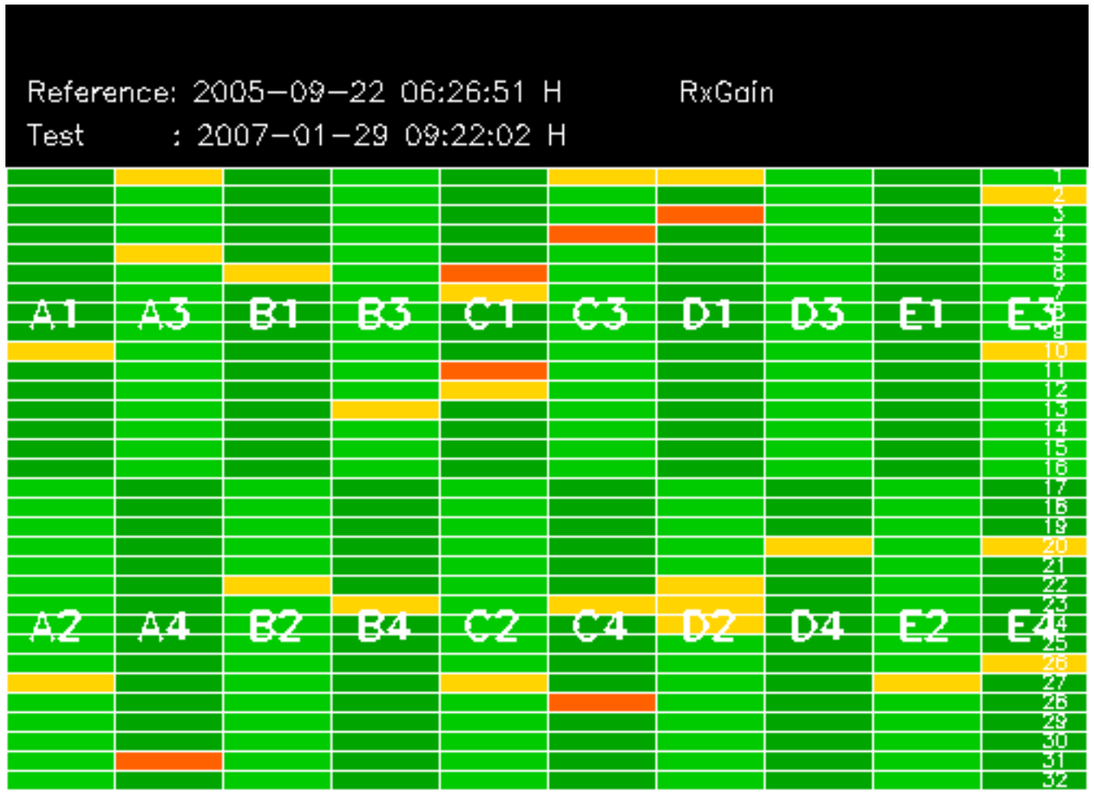

Doppler difference, estimated−predicted 'WVS' 'IS4' ascending −error mean of −27.911108 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS4' descending −error mean of −34.894376 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2007-01-29 09:22:02 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-29 09:22:02 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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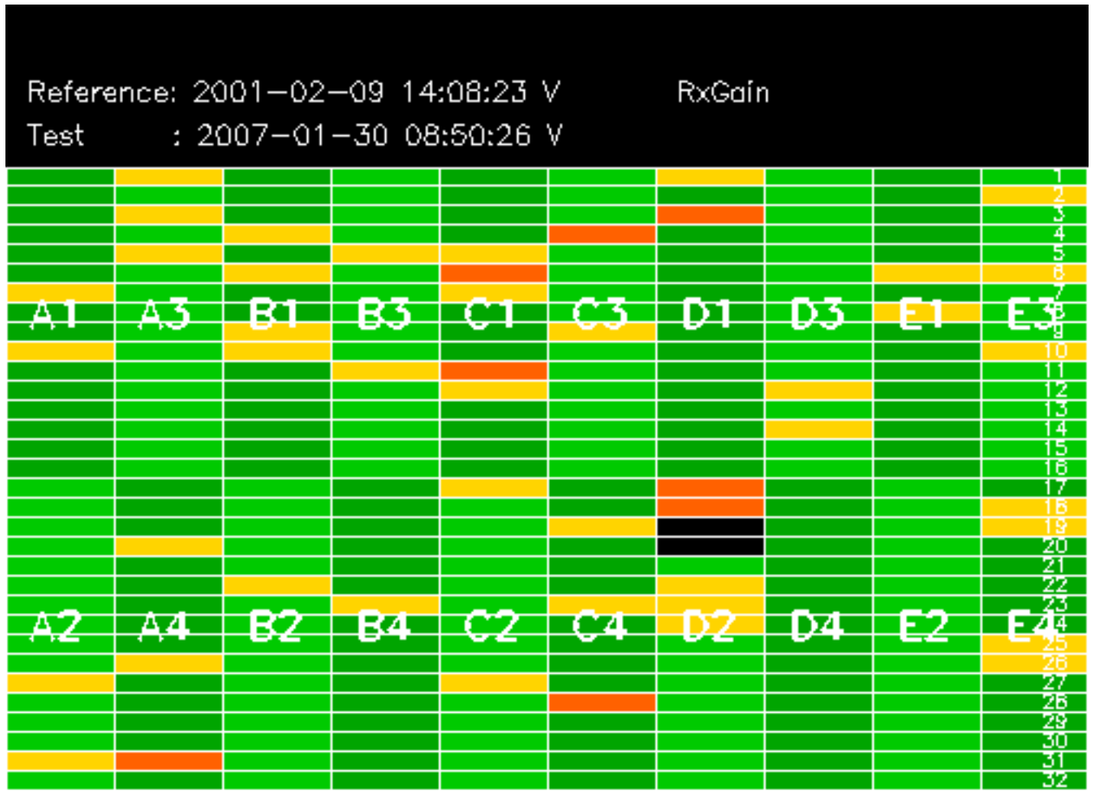
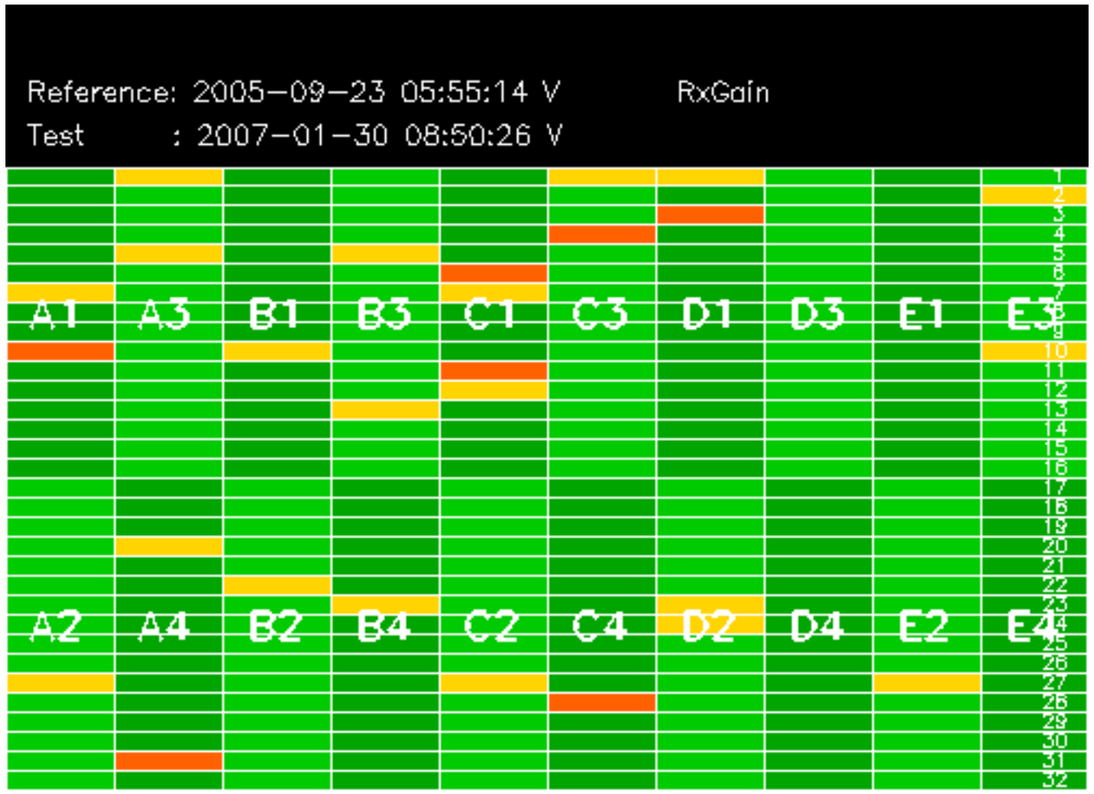

Reference: 2001-02-09 14:08:23 V
RxGain
Test : 2007-01-30 08:50:26 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-01-30 08:50:26 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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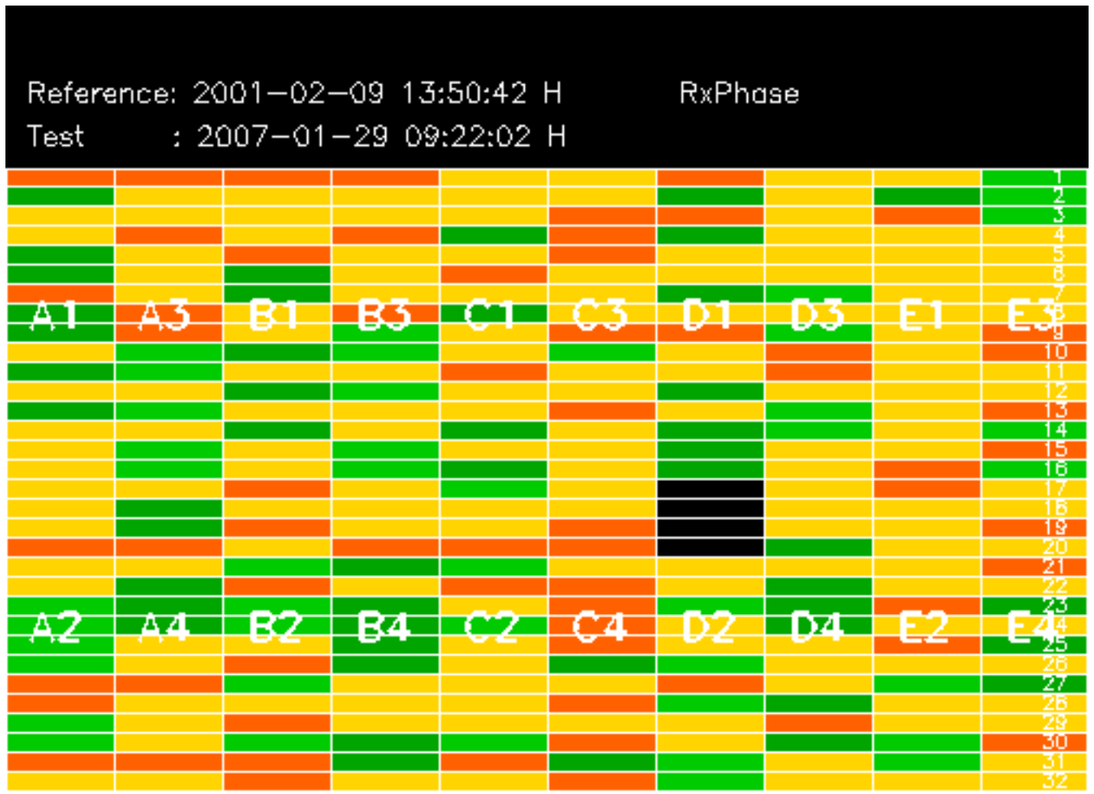
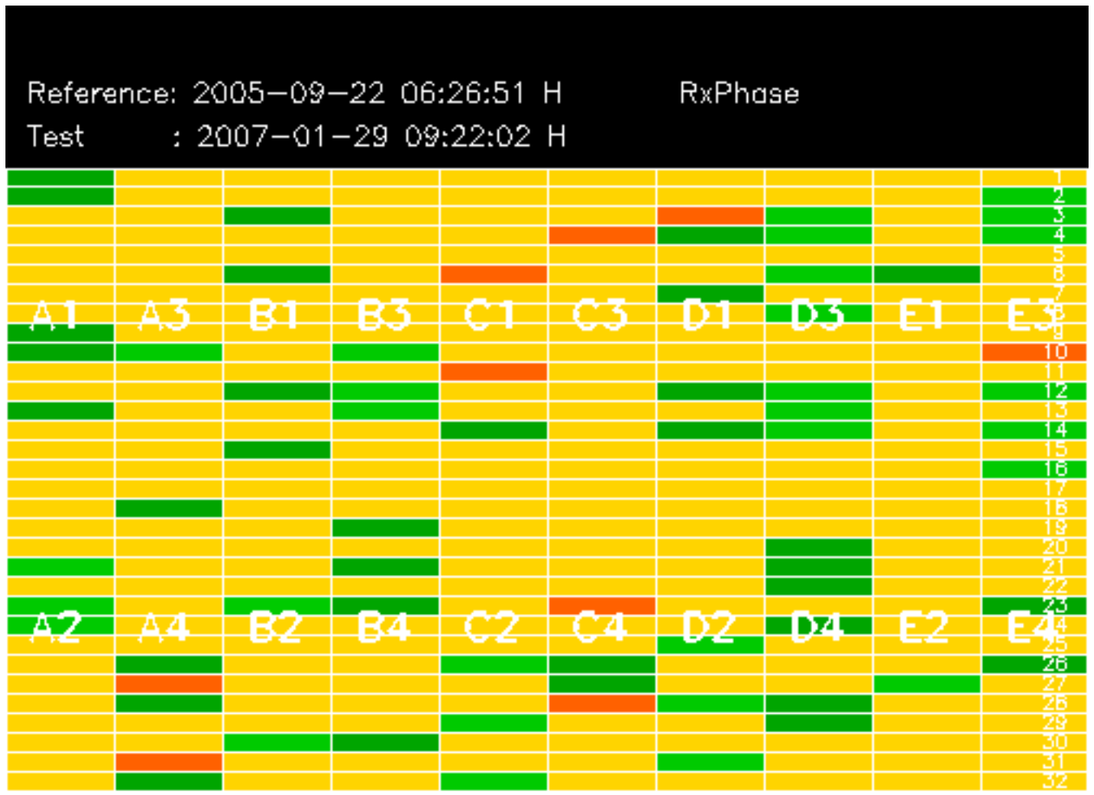
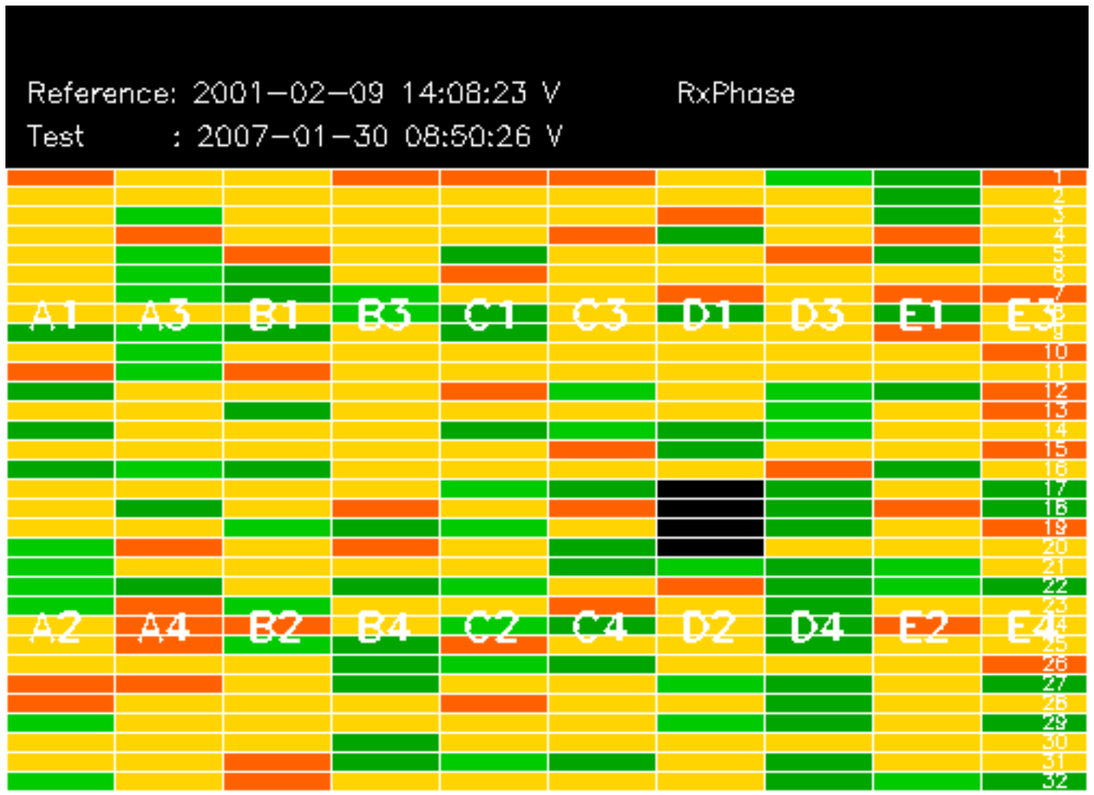
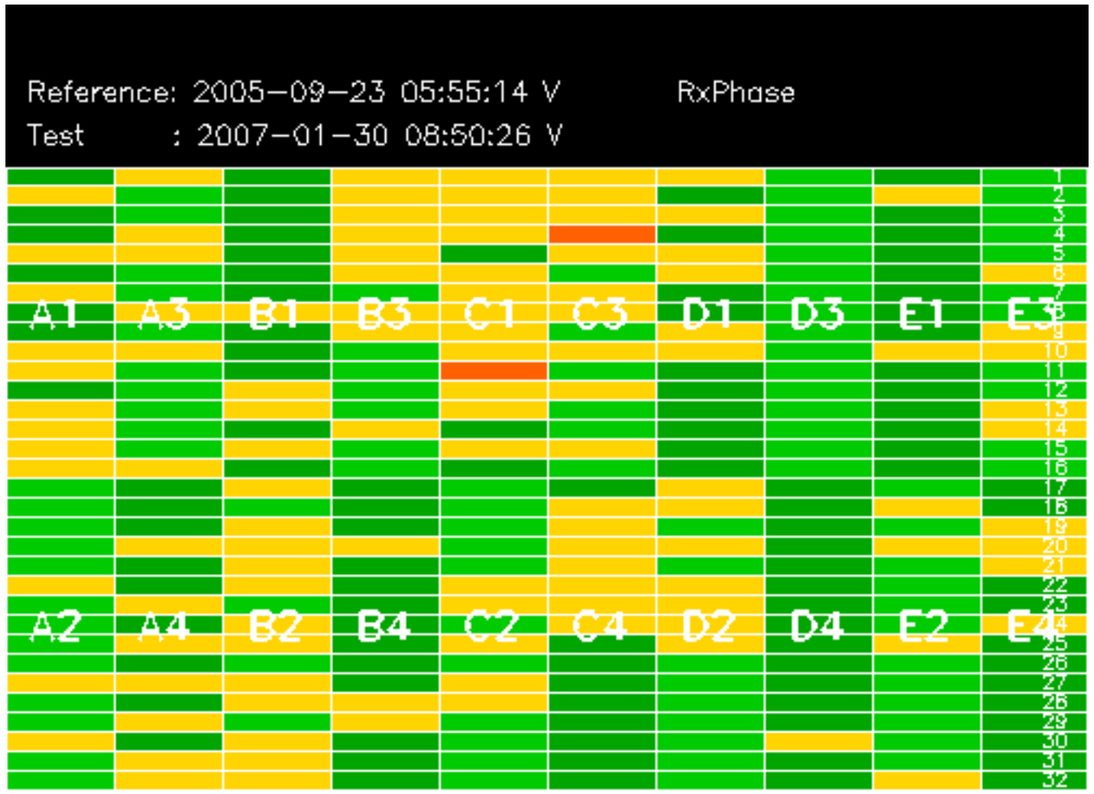

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2007-01-29 09:22:02 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-29 09:22:02 H
RxPhase
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 : 2007-01-30 08:50:26 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-01-30 08:50:26 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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31
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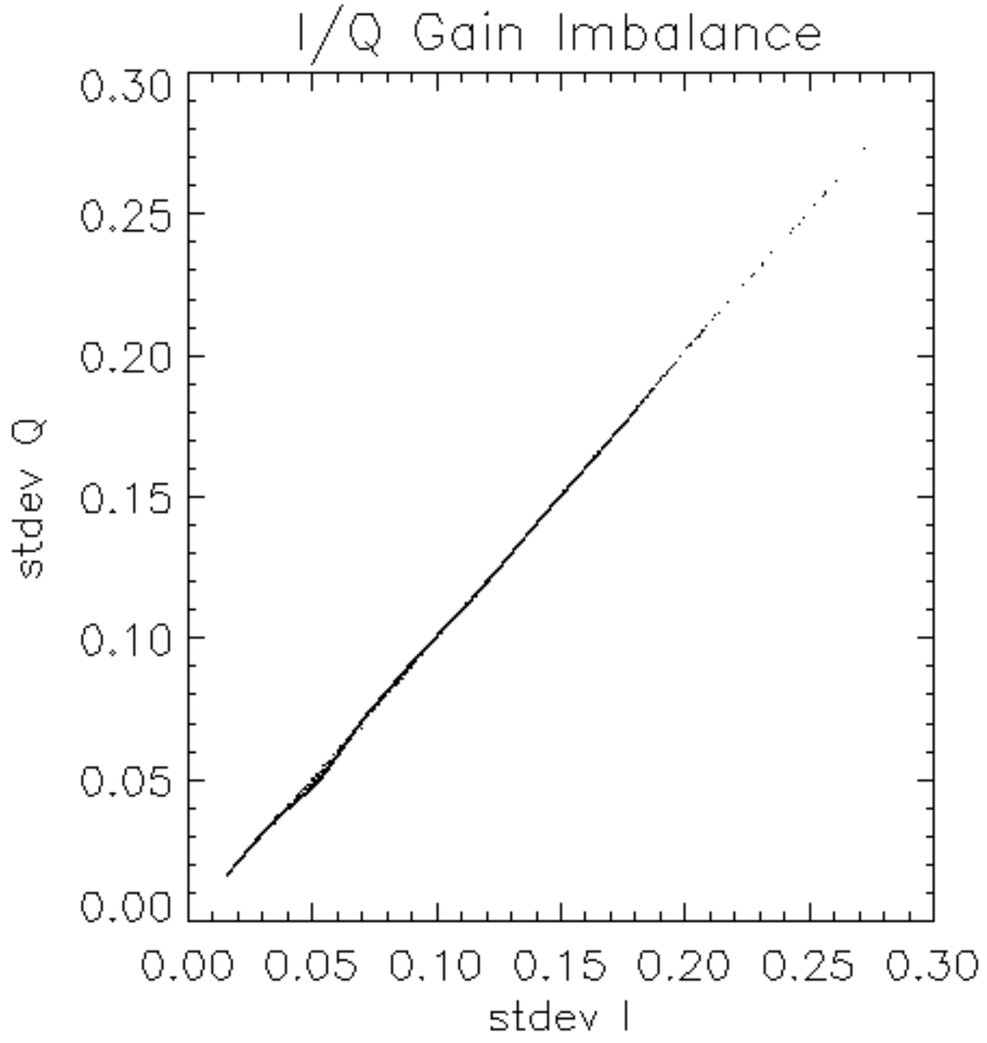
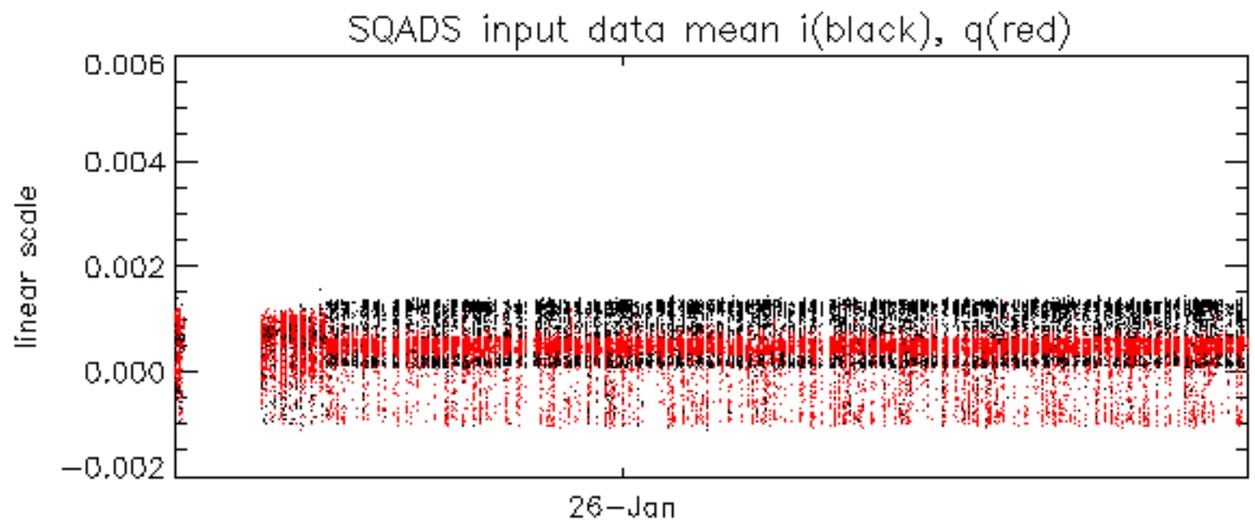
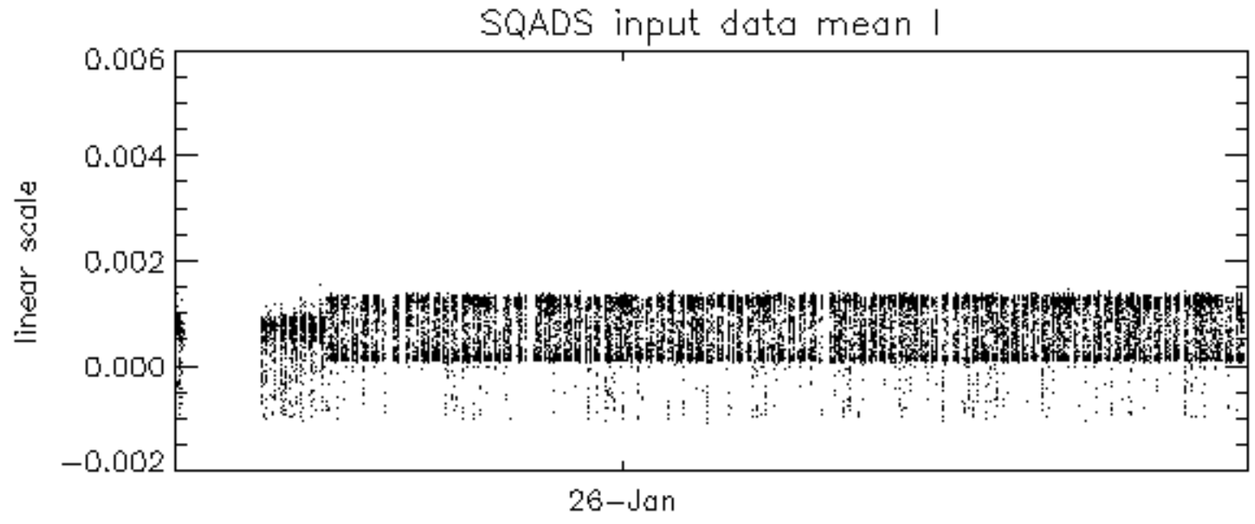
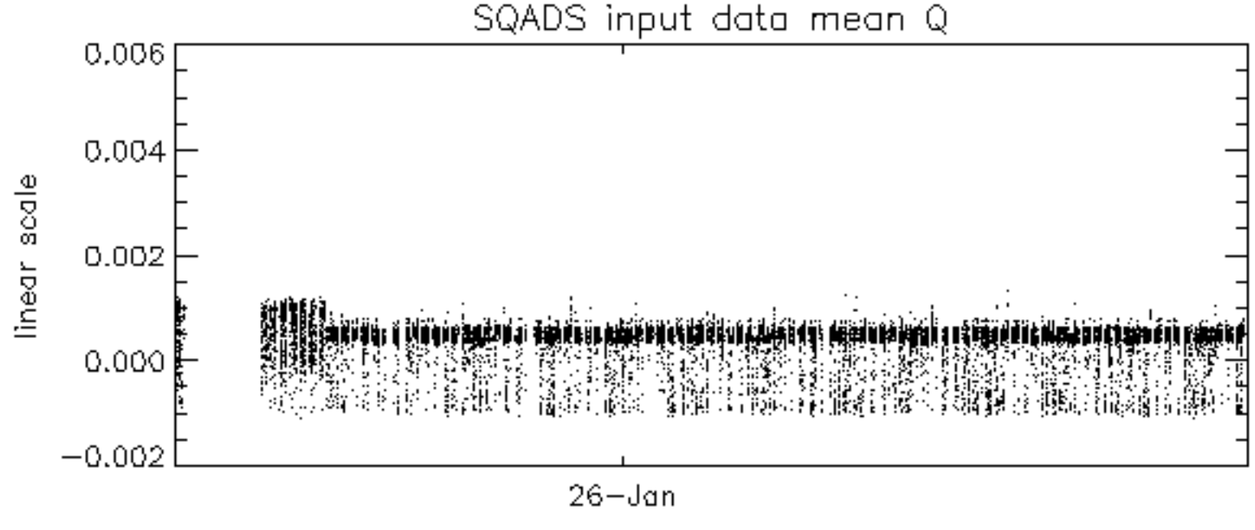
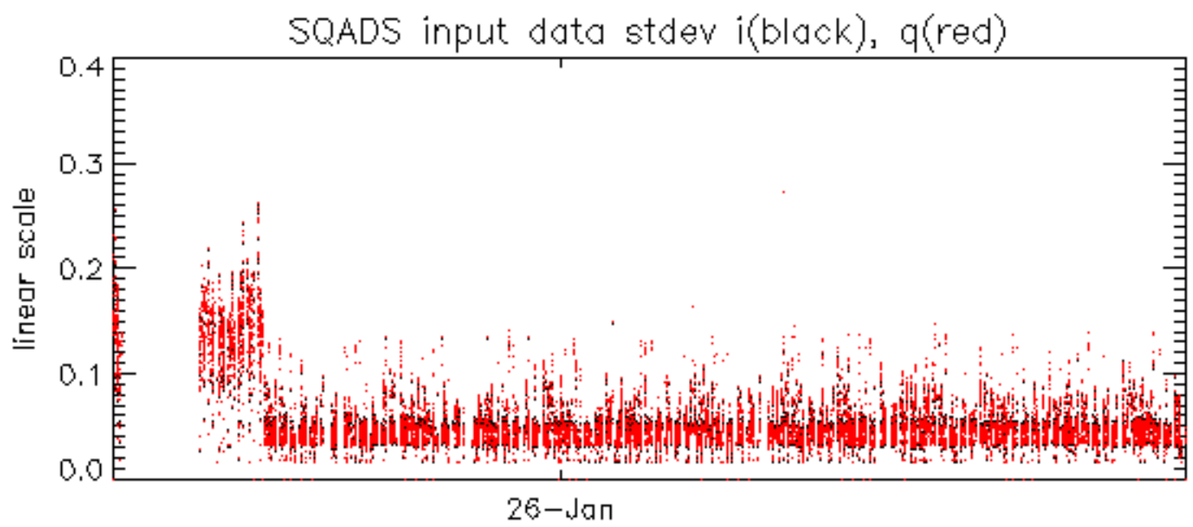
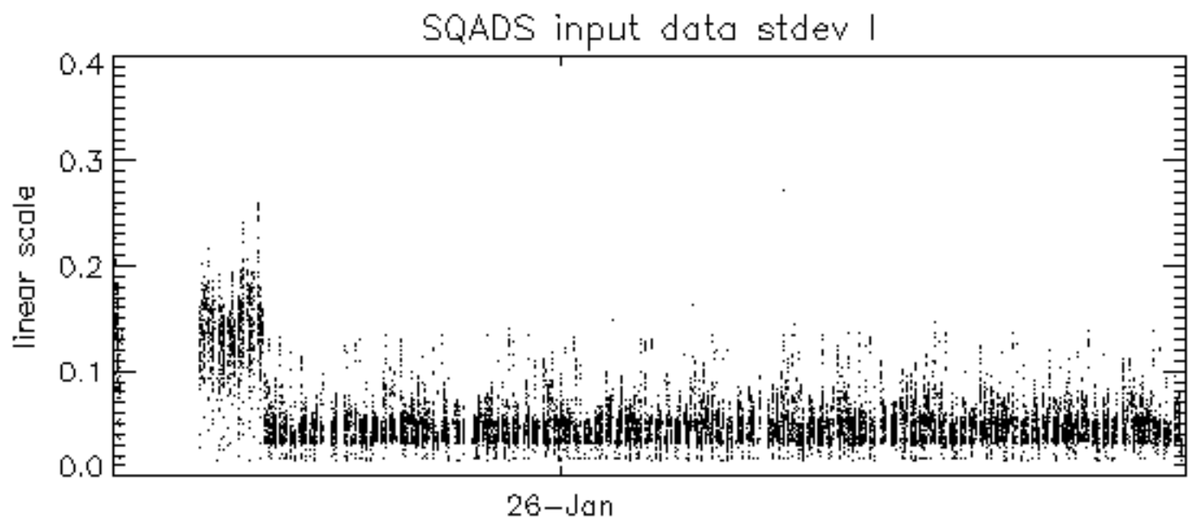

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

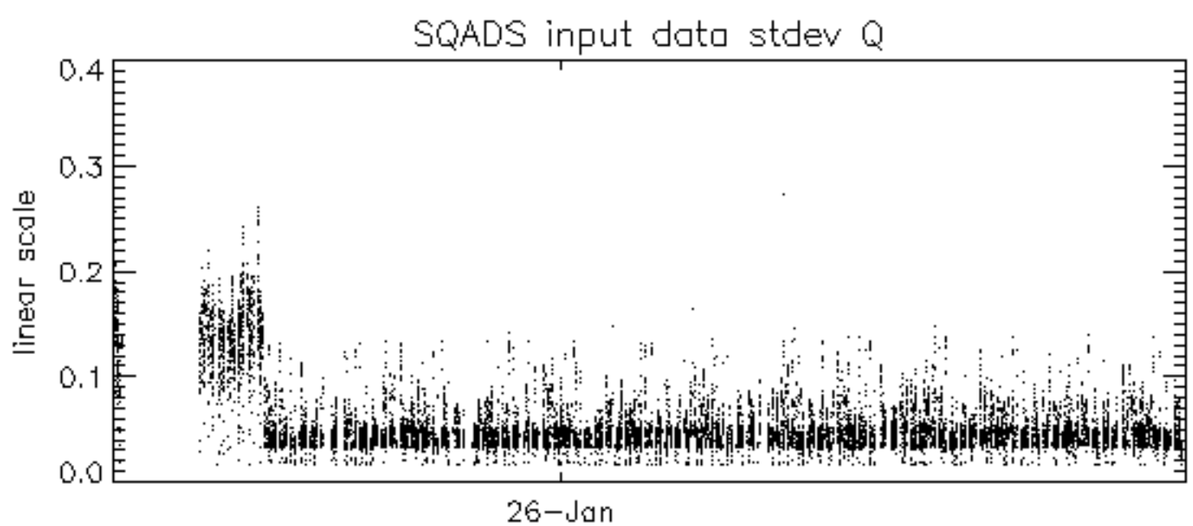

SQADS input data mean i(black), q(red)
0.006
0.004
0.002
0.000
−0.002
linear scale
26−Jan

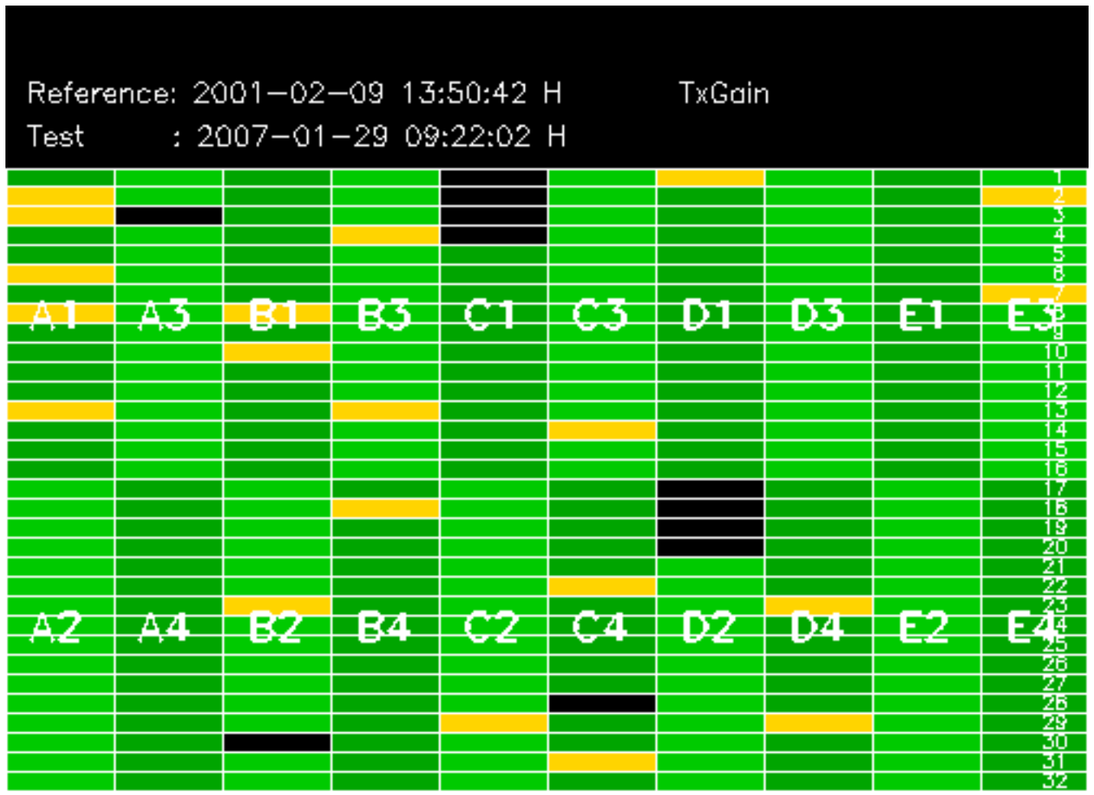

SQADS input data mean I
0.006
0.004
0.002
0.000
−0.002
linear scale
26−Jan

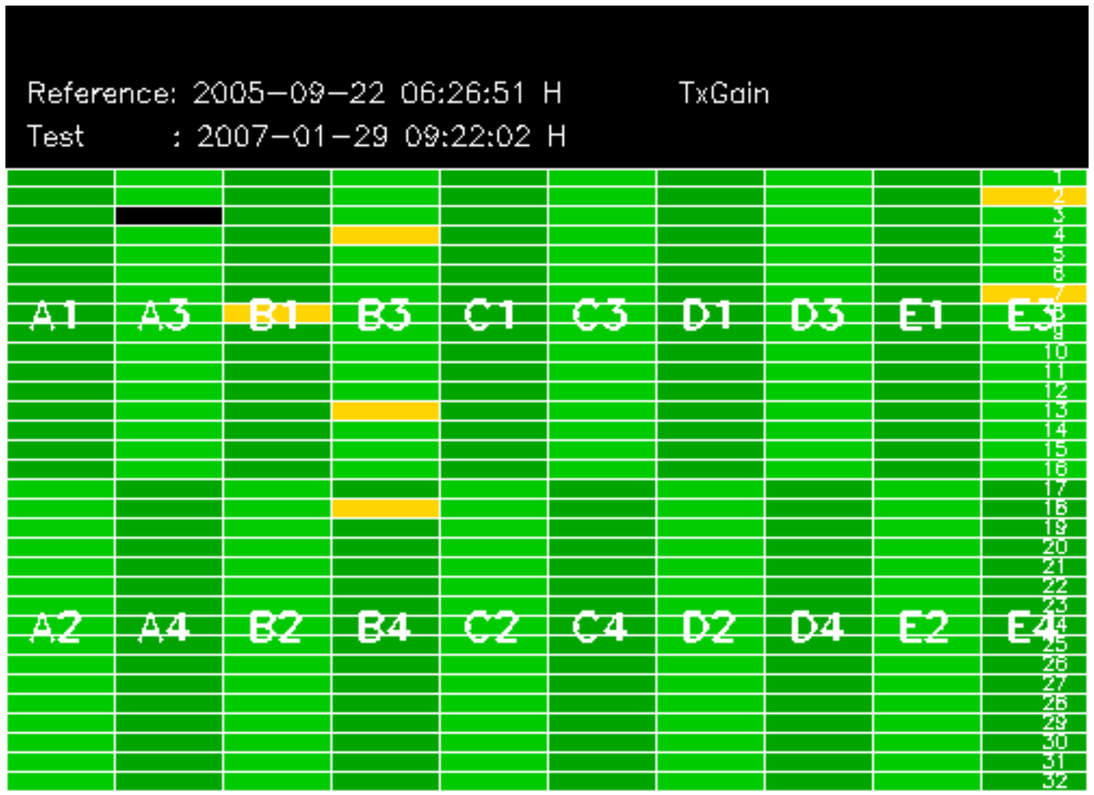

SQADS input data mean Q
0.006
0.004
0.002
0.000
−0.002
linear scale
26−Jan


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
26-Jan


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
26-Jan


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
26-Jan


Reference: 2001-02-09 13:50:42 H
Test : 2007-01-29 09:22:02 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-29 09:22:02 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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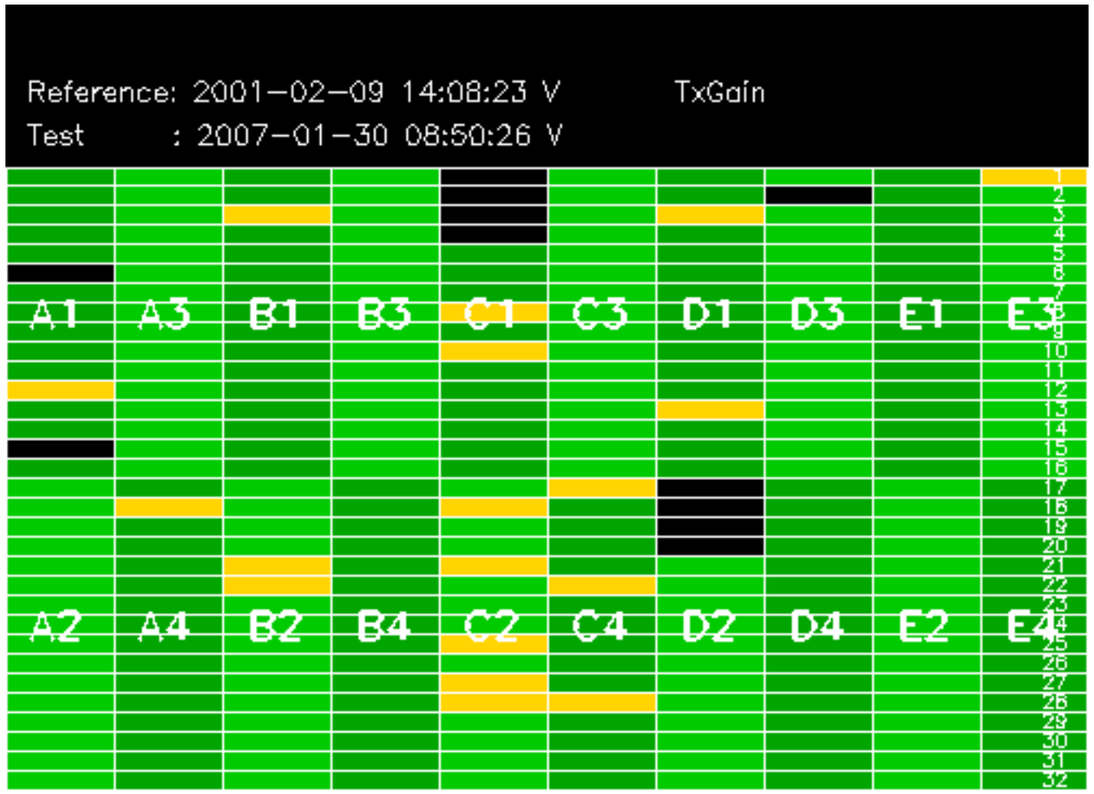
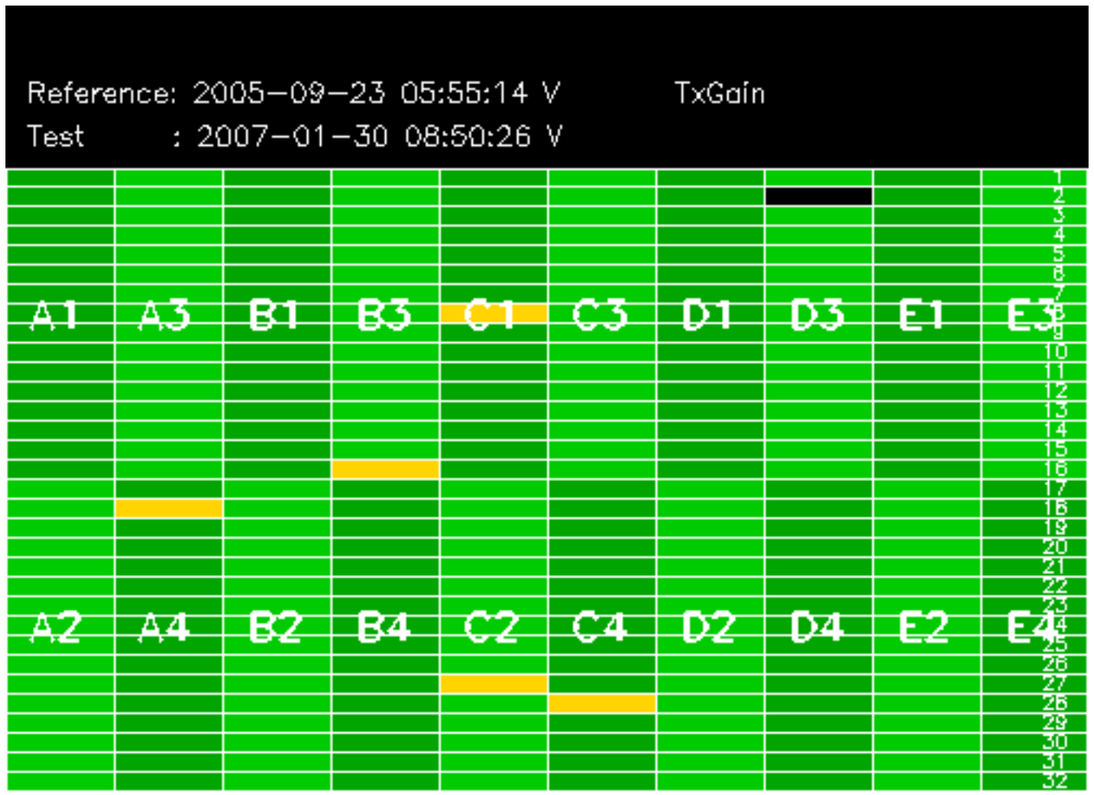

Reference: 2001-02-09 14:08:23 V
Test : 2007-01-30 08:50:26 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-23 05:55:14 V
Test : 2007-01-30 08:50:26 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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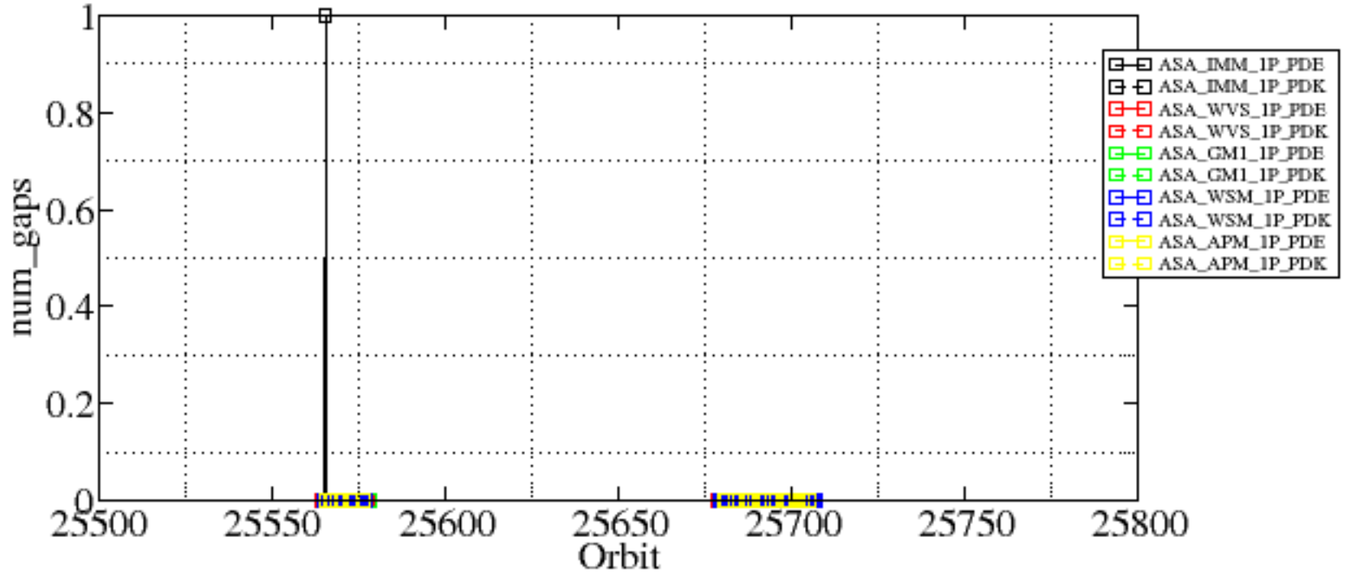
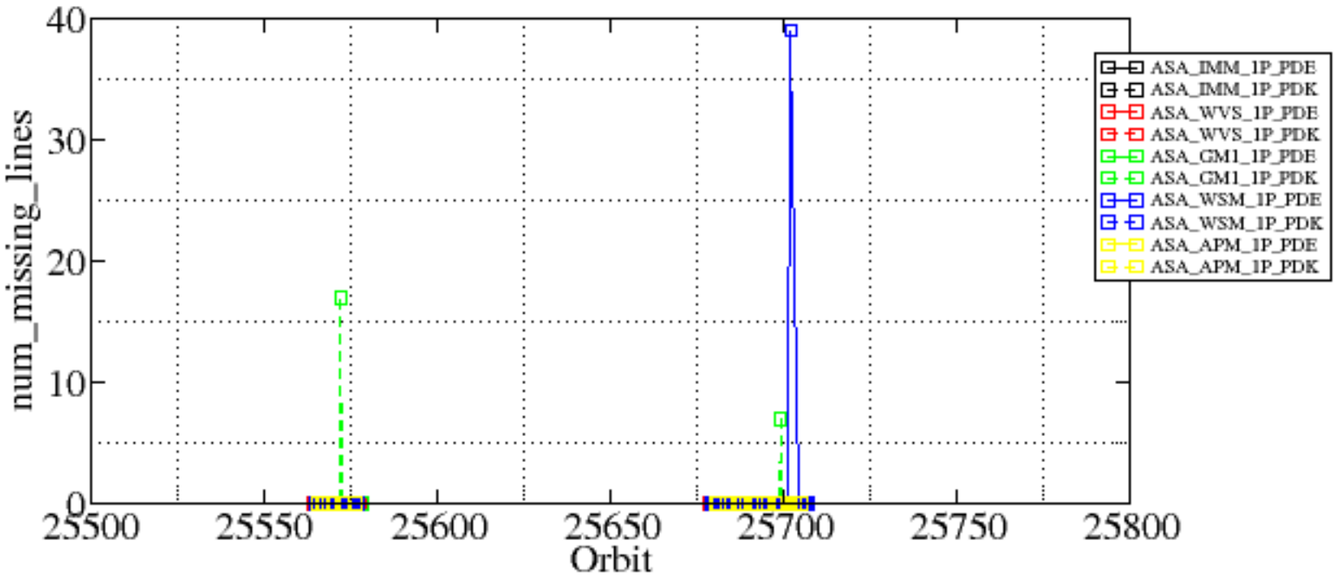
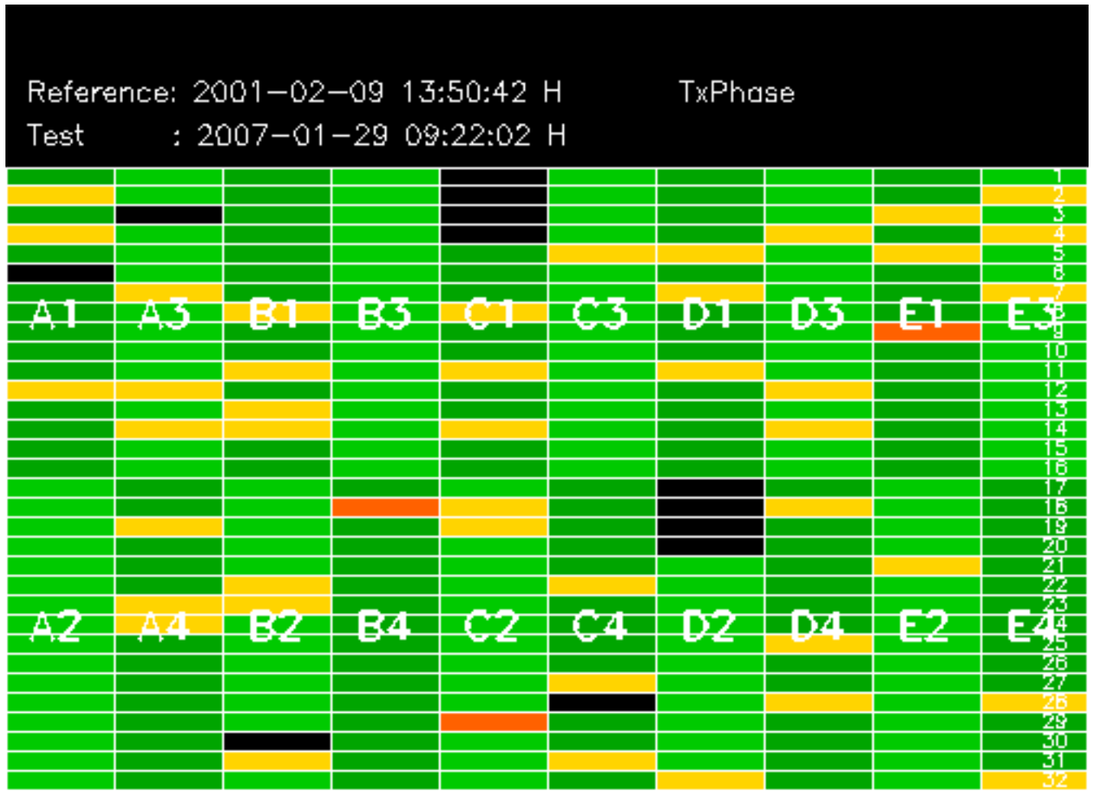
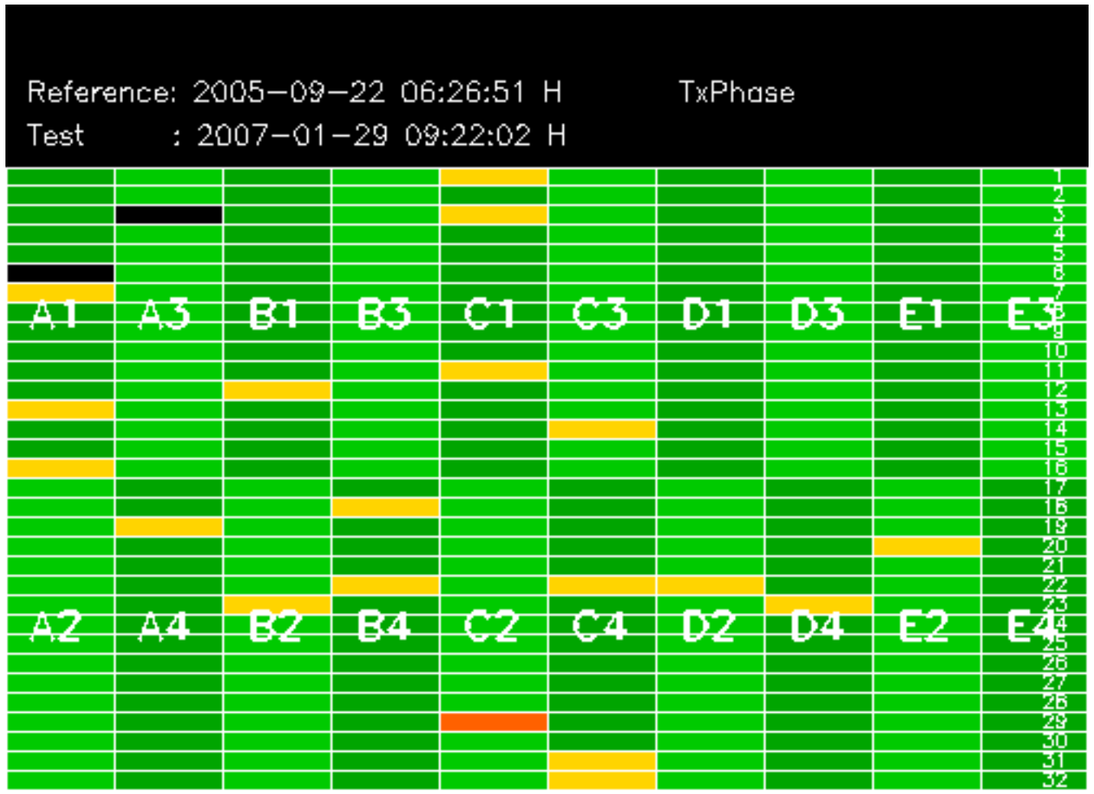
32

Summary of analysis for the last 3 days 2007012[890]
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_1PNPDE20070120_015157_000000532054_00461_25565_3990.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20070120_131030_000008632054_00468_25572_5436.N1 </td> <td>0 </td> <td>17 </td></tr>
<tr> <td>ASA_GM1_1PNPDK20070129_101419_000004832055_00094_25699_7395.N1 </td> <td>0 </td> <td>7 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20070129_145855_000002872055_00097_25702_8748.N1 </td> <td>0 </td> <td>39 </td></tr>
</table>


num_gaps
Orbit
1
0.8
0.6
0.4
0.2
0
25500
25550
25600
25650
25700
25750
25800
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
40
30
20
10
0
25500
25550
25600
25650
25700
25750
25800
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 : 2007-01-29 09:22:02 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-22 06:26:51 H
Test : 2007-01-29 09:22:02 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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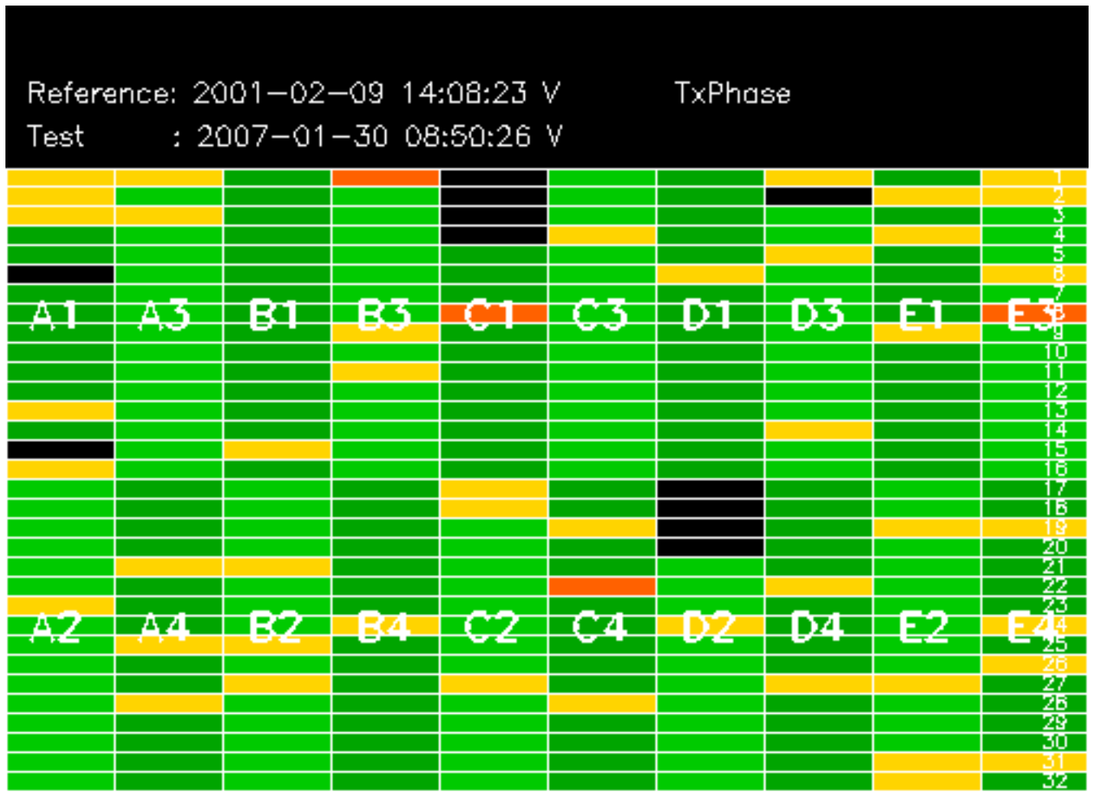
Reference: 2001-02-09 14:08:23 V
Test : 2007-01-30 08:50:26 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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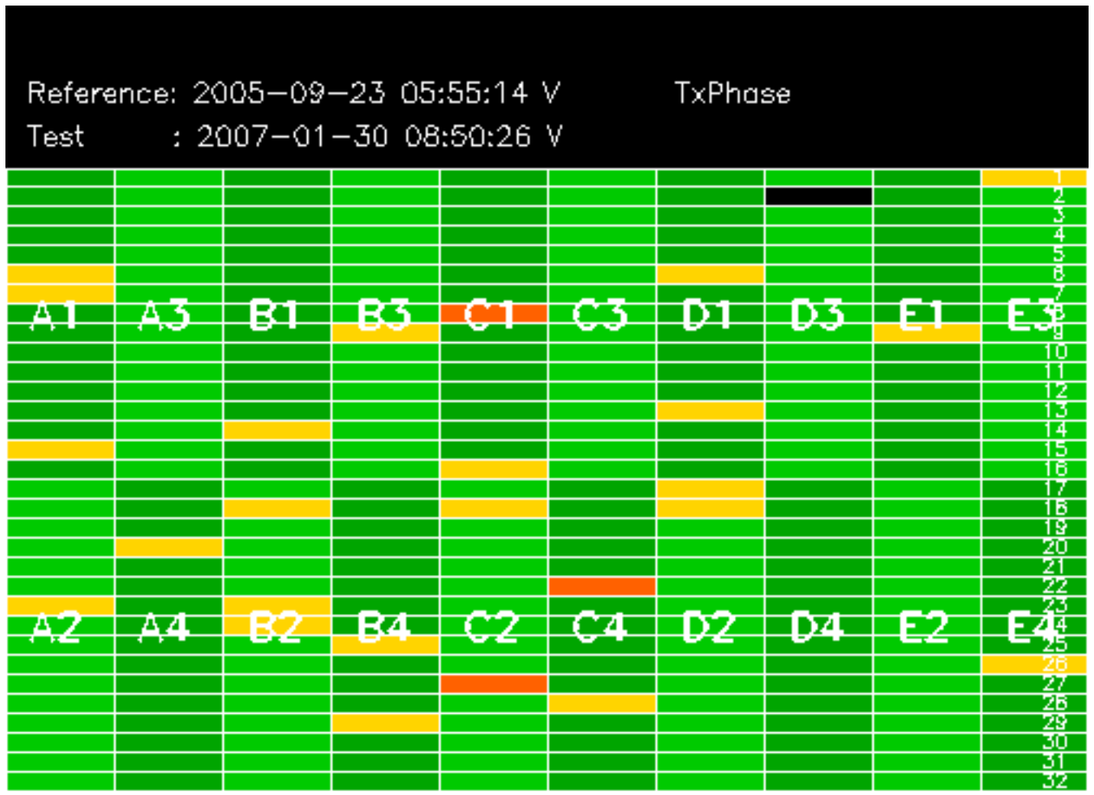
Reference: 2005-09-23 05:55:14 V
Test : 2007-01-30 08:50:26 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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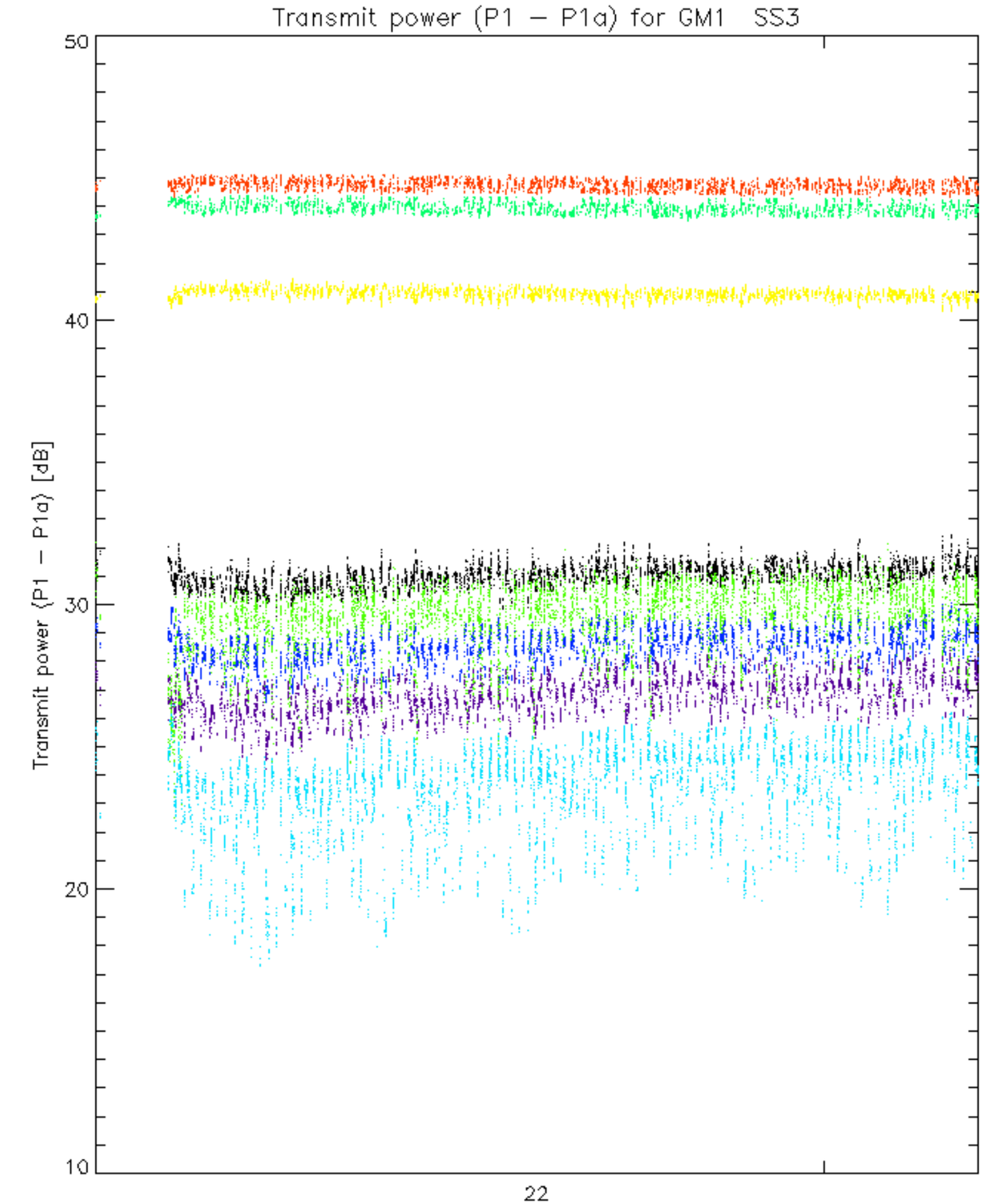
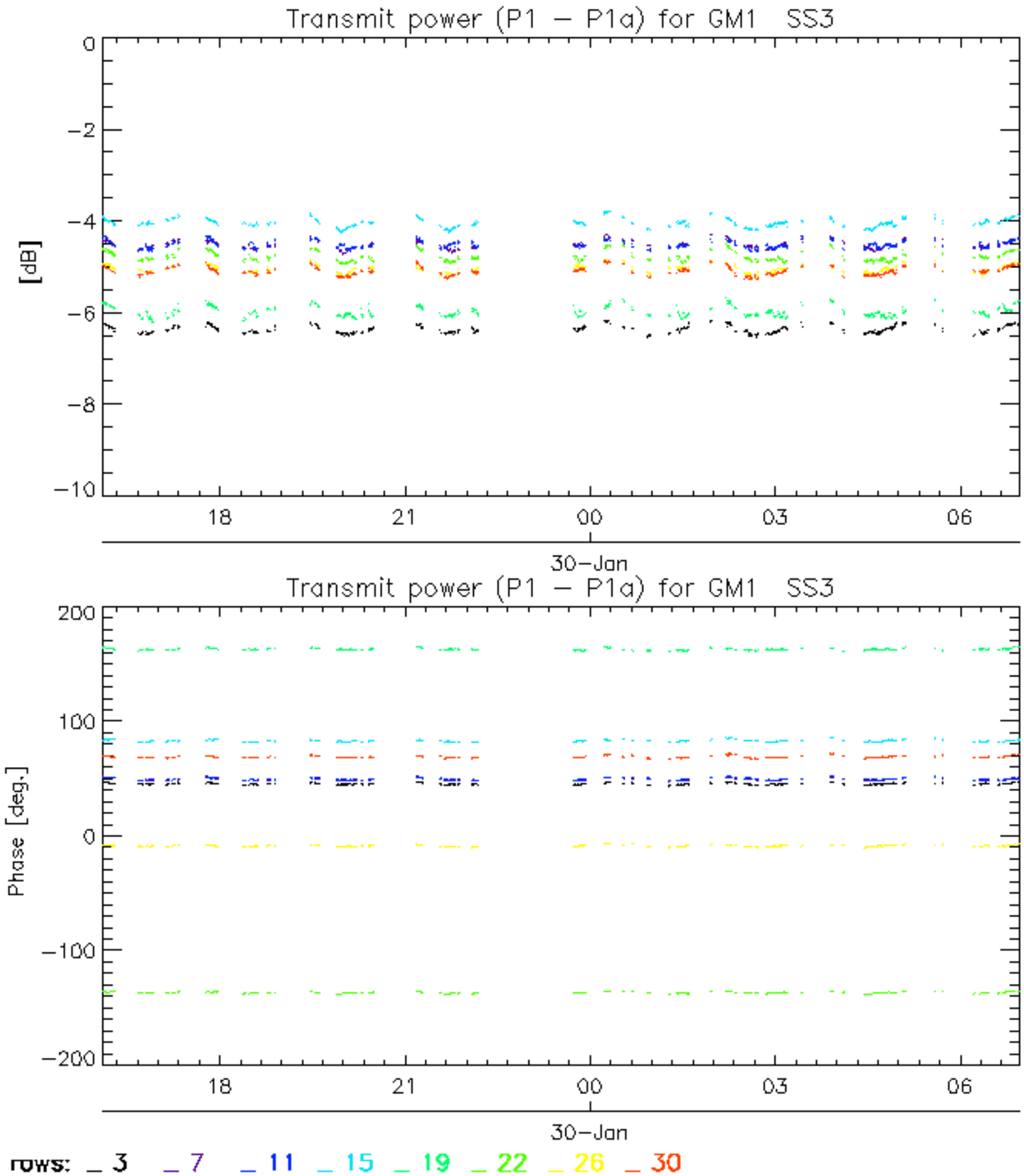
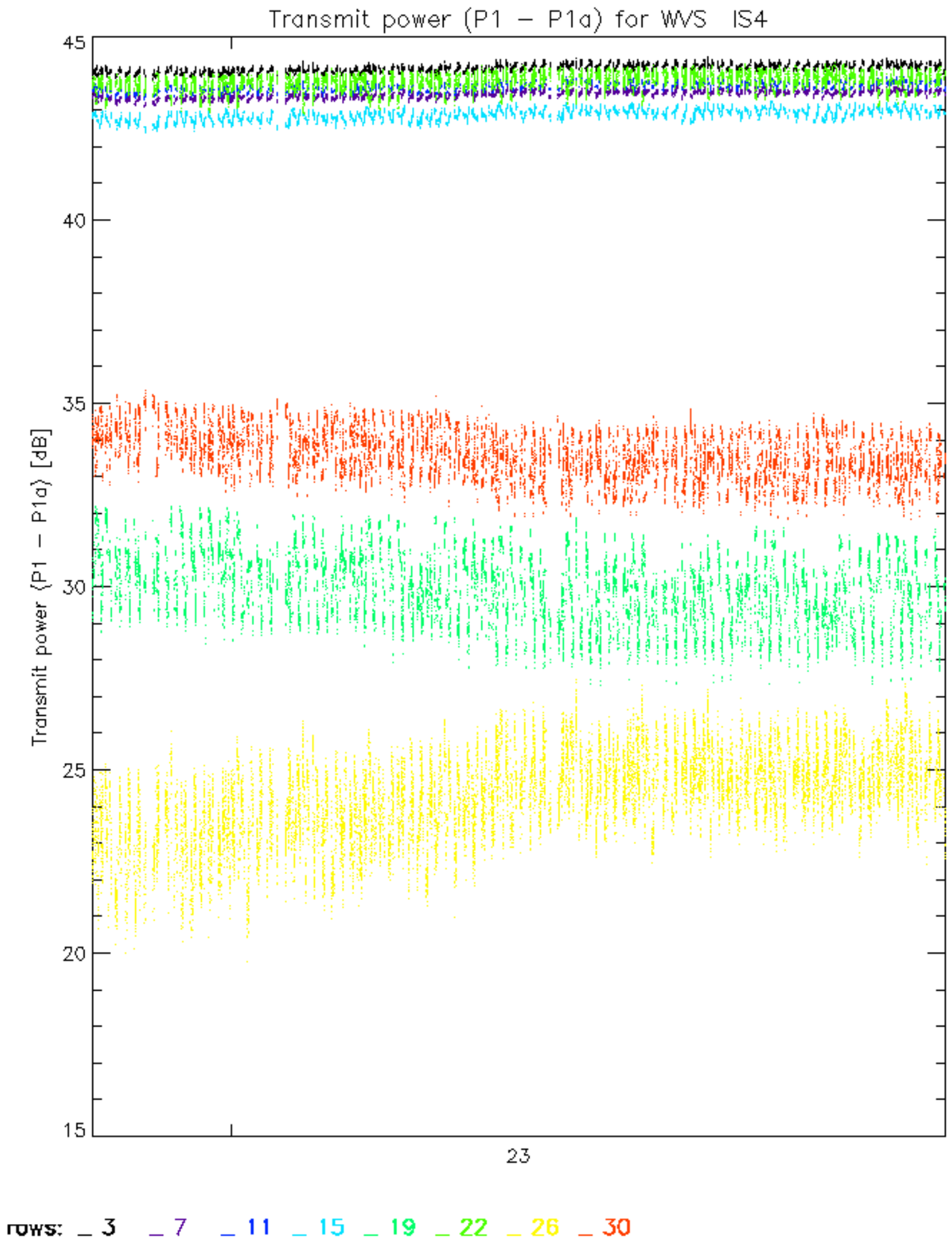
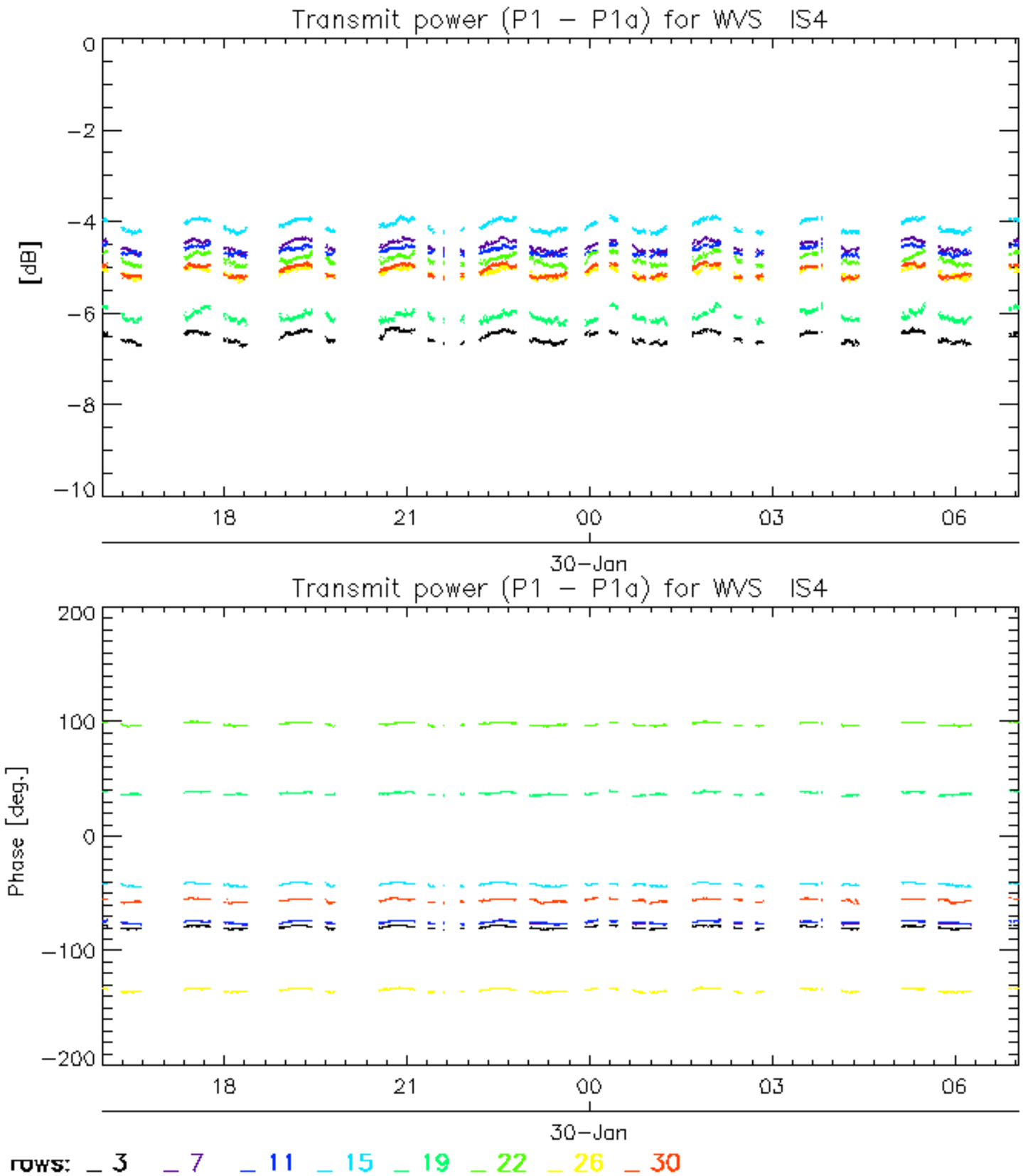

Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
22
rows: 3 7 11 15 19 22 26 30


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


Transmit power (P1 – P1a) for WVS IS4
Transmit power ⟨P1 – P1a⟩ [dB]
45
40
35
30
25
20
15
23
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS4
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
30−Jan
Transmit power (P1 – P1a) for WVS IS4
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
30−Jan
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.