PRELIMINARY REPORT OF 051214

last update on Wed Dec 14 16:44:49 GMT 2005

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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 2005-12-13 00:00:00 to 2005-12-14 16:44:49

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	47	0	14	0	28
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	47	0	14	0	28
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	47	0	14	0	28
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	47	0	14	0	28

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	41	45	31	14	58
ASA_XCA_AXVIEC20051013_152531_20050916_195733_20061231_000000	41	45	31	14	58
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	41	45	31	14	58
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	41	45	31	14	58

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	20051212 054047
H	20051213 050910

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	-3.554436	0.203178	0.307053
7	P1	-2.752332	0.125219	0.685036
11	P1	-4.152050	0.030841	-0.059120
15	P1	-5.117703	1.716269	2.775580
19	P1	-3.035369	0.061565	0.478335
22	P1	-4.437767	0.020975	0.158453
26	P1	-4.398749	0.059513	-0.456155
30	P1	-5.653886	0.033542	0.313319
3	P1	-15.257002	2.137553	1.295960
7	P1	-15.305017	2.613275	3.350518
11	P1	-16.310032	0.467983	0.792692
15	P1	-12.803315	1.017179	2.051545
19	P1	-13.413901	0.339292	1.105123
22	P1	-16.056904	0.624856	0.791975
26	P1	-15.131840	1.118033	2.099199
30	P1	-15.595227	2.453247	3.161953

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.869711	0.107010	-0.003627
7	P2	-22.555048	0.105136	0.031710
11	P2	-16.584049	0.121160	-0.055751
15	P2	-7.280052	0.104139	-0.055948
19	P2	-9.221942	0.101854	0.040097
22	P2	-17.863403	0.110752	0.121614
26	P2	-16.361477	0.133487	-0.427195
30	P2	-19.786337	0.119644	-0.316469

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.235174	0.007346	-0.015803
7	P3	-8.235174	0.007346	-0.015803
11	P3	-8.235174	0.007346	-0.015803
15	P3	-8.235174	0.007346	-0.015803
19	P3	-8.235174	0.007346	-0.015803
22	P3	-8.235174	0.007346	-0.015803
26	P3	-8.235174	0.007346	-0.015803
30	P3	-8.235174	0.007346	-0.015803

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	-3.695796	0.007999	-0.019710
7	P1	-2.780029	0.011349	0.028938
11	P1	-2.878133	0.014364	-0.005782
15	P1	-3.400466	0.021909	-0.020114
19	P1	-3.383400	0.013450	-0.021998
22	P1	-5.119318	0.019800	-0.014307
26	P1	-5.829234	0.016294	-0.047119
30	P1	-5.275362	0.033064	-0.014384
3	P1	-11.467995	0.042809	-0.035640
7	P1	-9.972592	0.045399	0.000055
11	P1	-10.051768	0.060849	-0.010463
15	P1	-10.566751	0.084313	0.031395
19	P1	-15.508724	0.074230	-0.031063
22	P1	-20.958324	0.955577	-0.164156

26	P1	-17.210045	0.308272	0.055814
30	P1	-18.320068	0.310457	0.182068

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.640160	0.030238	0.062050
7	P2	-23.058083	0.060651	-0.018558
11	P2	-11.653593	0.022132	0.106441
15	P2	-4.983273	0.021462	-0.044787
19	P2	-6.961715	0.021911	-0.030027
22	P2	-8.182560	0.023628	-0.068501
26	P2	-24.047367	0.031687	-0.042018
30	P2	-22.118406	0.019949	-0.042573

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.074875	0.002443	-0.010297
7	P3	-8.074936	0.002453	-0.010465
11	P3	-8.074888	0.002440	-0.010420
15	P3	-8.074866	0.002450	-0.010432
19	P3	-8.075059	0.002454	-0.010037
22	P3	-8.074980	0.002452	-0.010360
26	P3	-8.074860	0.002428	-0.010892
30	P3	-8.074680	0.002451	-0.010092

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	0.000465997
	stdev	2.15939e-07
MEAN Q	mean	0.000484417
	stdev	2.36998e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.129081
	stdev	0.00107524
STDEV Q	mean	0.129363
	stdev	0.00108719

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2005121[234]
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_1PNPDE20051213_003723_000001162043_00202_19795_3834.N1	1	0
ASA_IMM_1PNPDE20051214_004627_000001012043_00217_19810_3913.N1	1	0
ASA_IMM_1PNPDK20051213_123408_000000812043_00210_19803_9153.N1	1	0
ASA_WSM_1PNPDE20051212_015902_000001842043_00189_19782_3870.N1	0	39
ASA_WSM_1PNPDE20051212_162339_000002072043_00198_19791_3936.N1	0	49

ASA_WSM_1PNPDE20051213_012705_000001472043_00203_19796_4009.N1	0	65
ASA_WSM_1PNPDE20051213_112835_000001592043_00209_19802_4068.N1	0	15
ASA_WSM_1PNPDE20051213_204345_000000612043_00214_19807_4111.N1	0	1
ASA_APM_1PNPDE20051213_141144_000000712043_00211_19804_3369.N1	0	14
ASA_APM_1PNPDE20051213_223010_000000432043_00216_19809_3379.N1	0	21

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

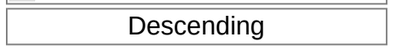
7.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX

7.4 - Unbiased Doppler Error for GM1

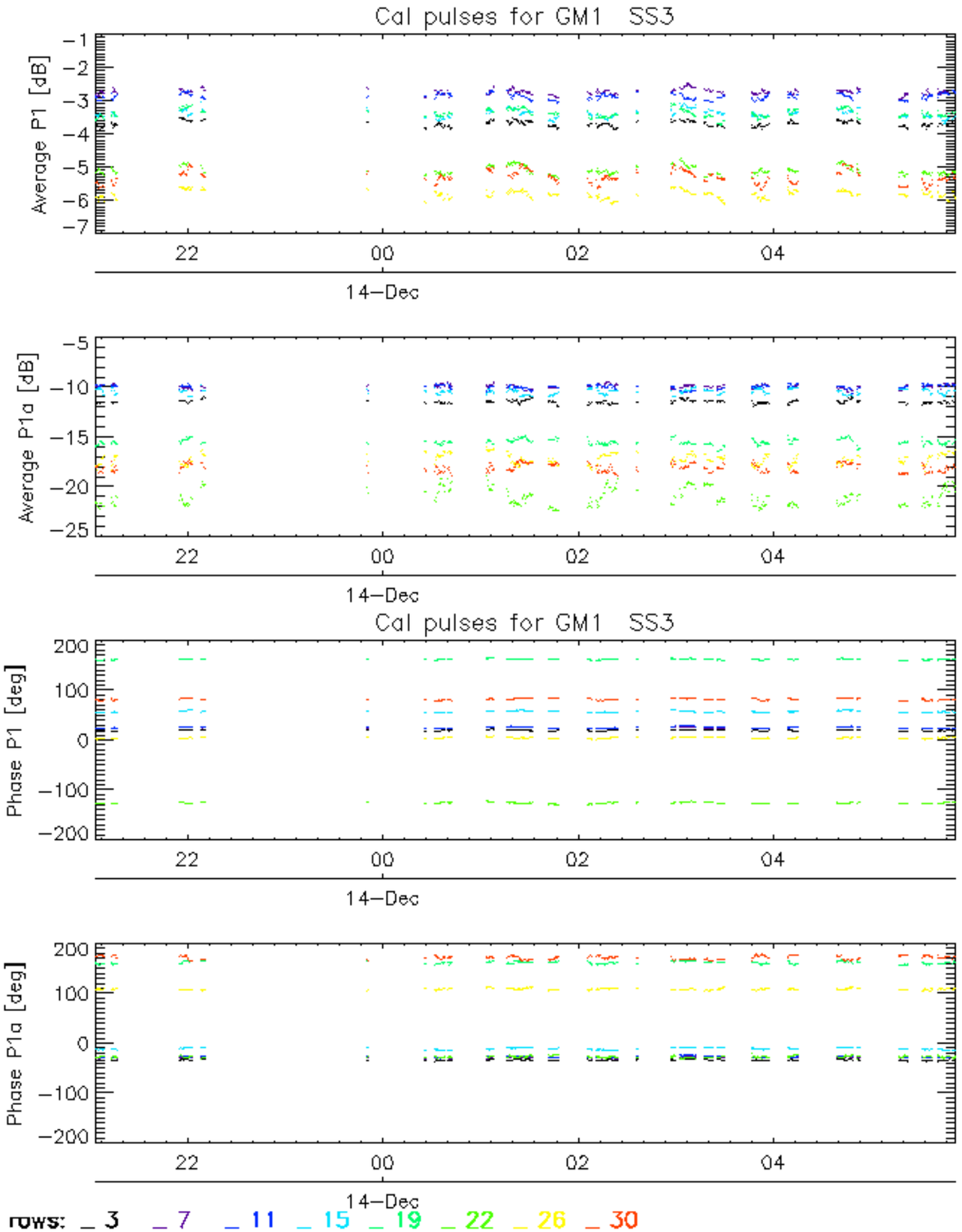
Evolution of unbiased Doppler error (Real - Expected)
Acsending
Descending

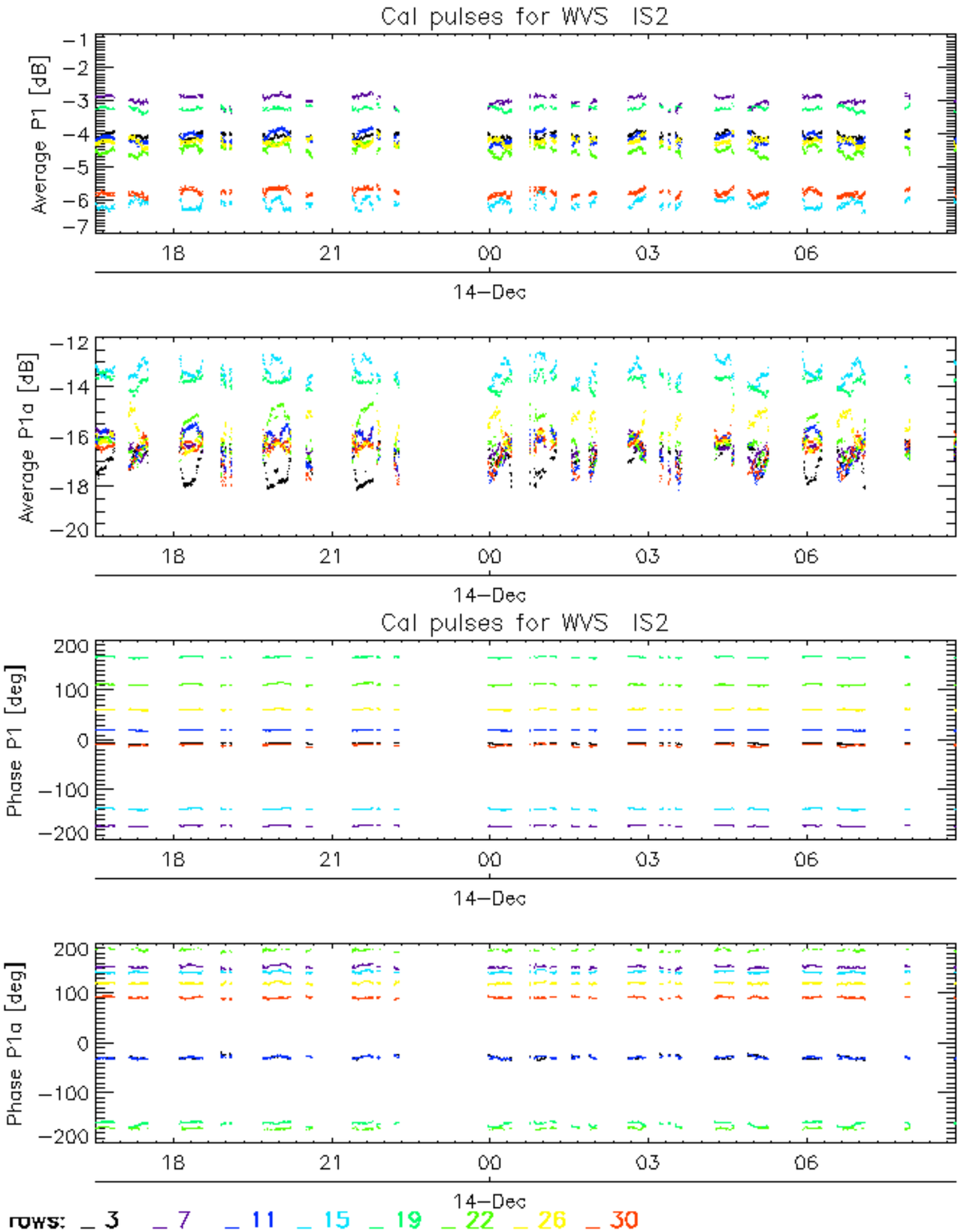
7.5 - Absolute Doppler for GM1

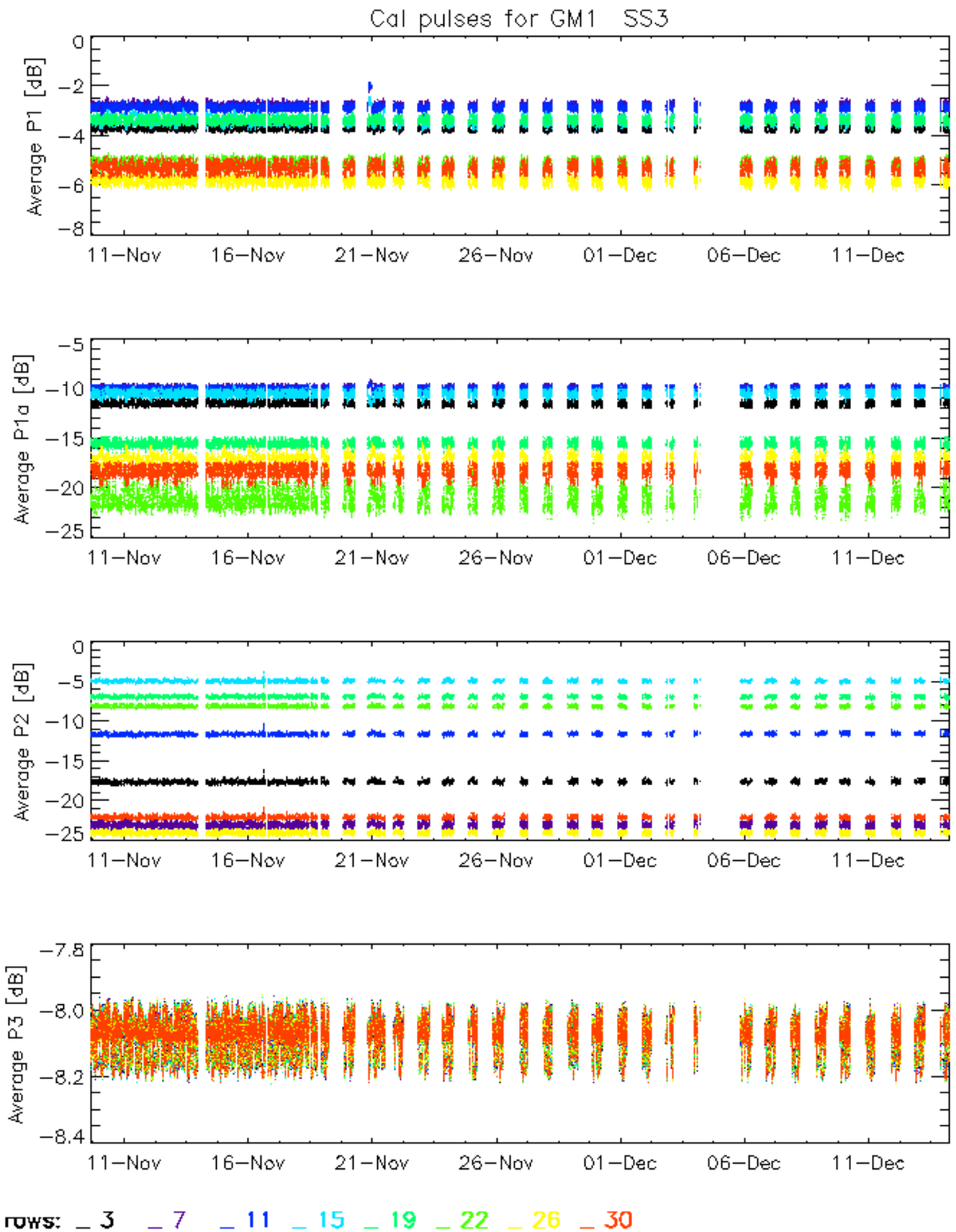
Evolution of Absolute Doppler
Acsending

Descending

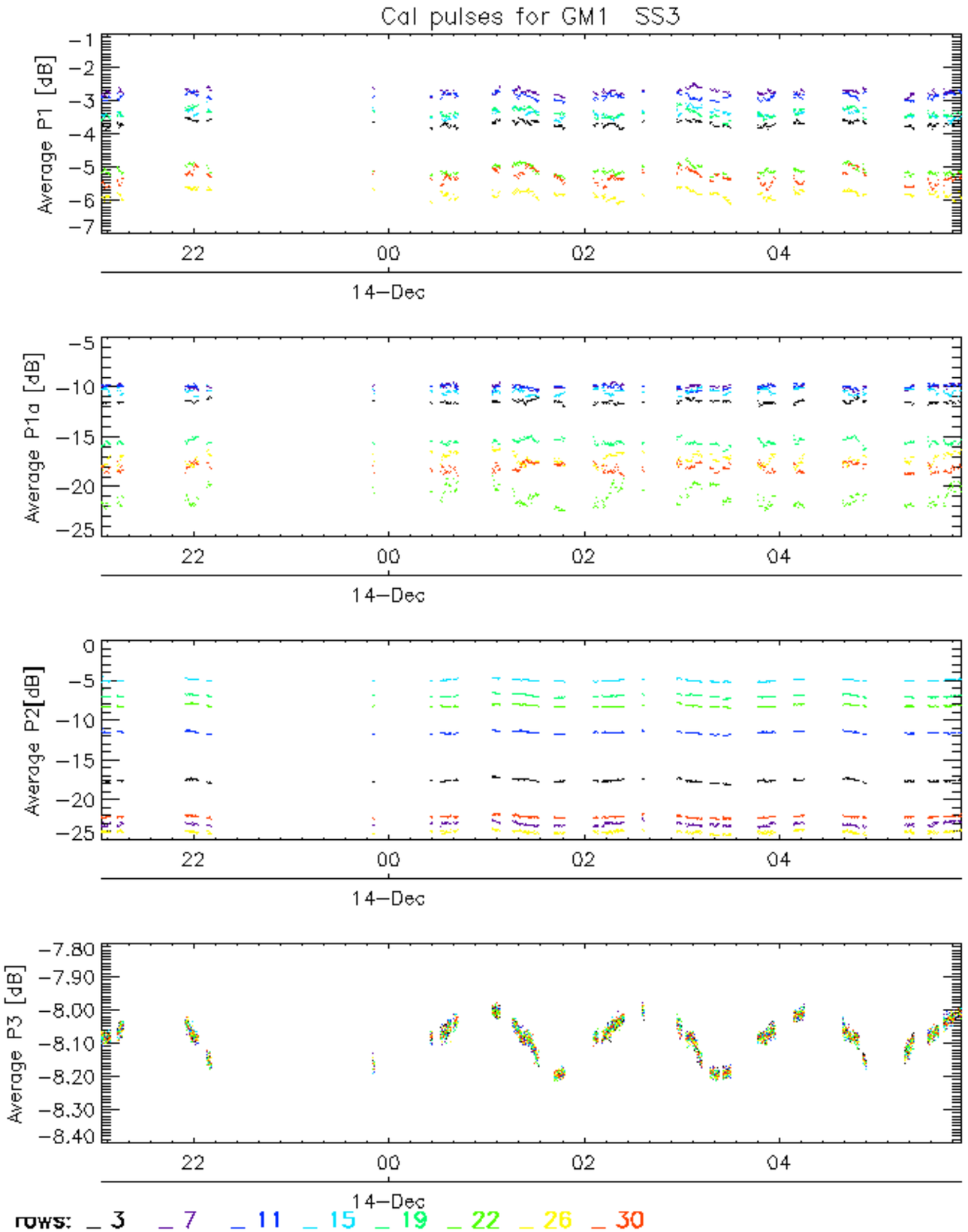
7.6 - Doppler evolution versus ANX for GM1

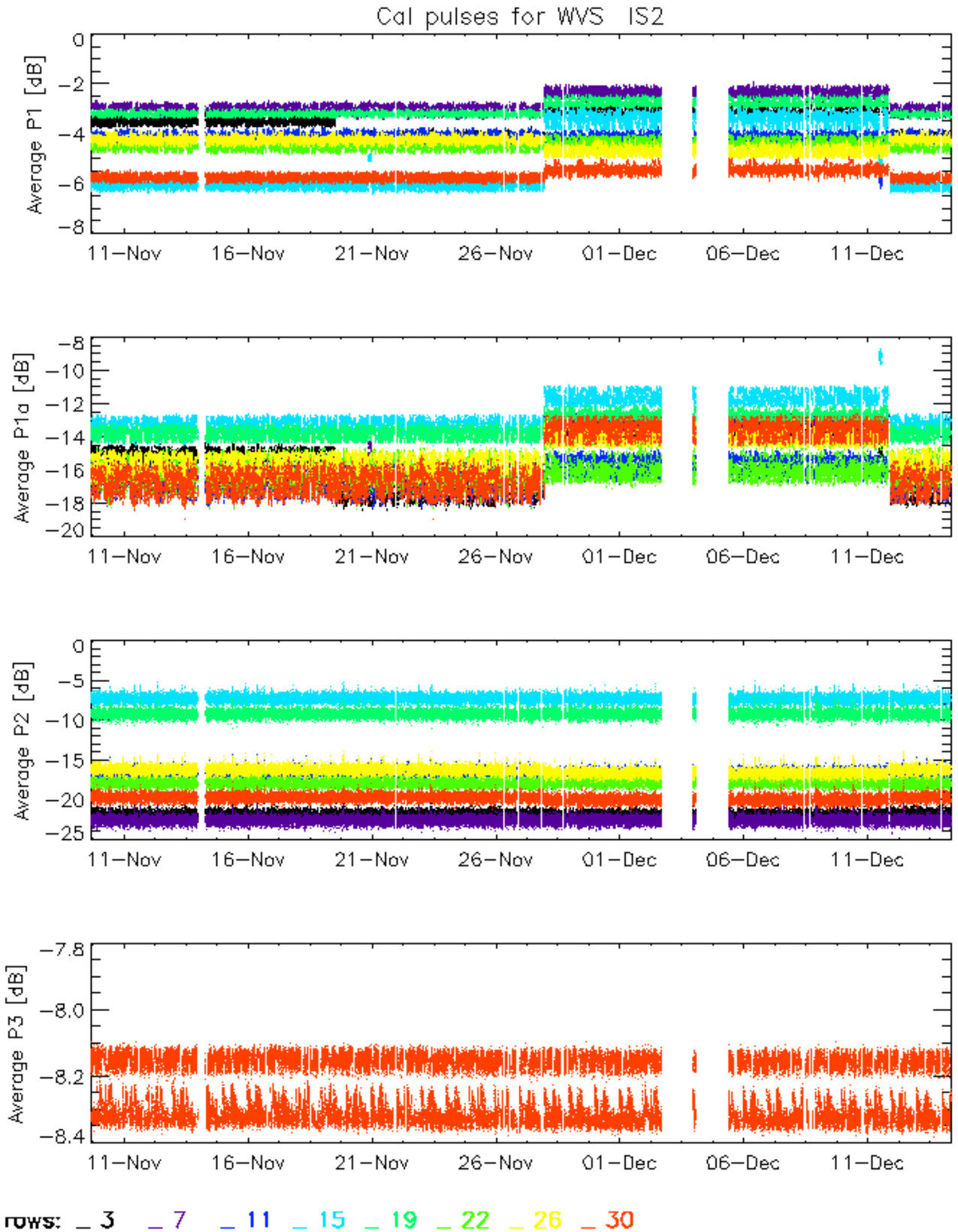
Evolution Doppler error versus ANX

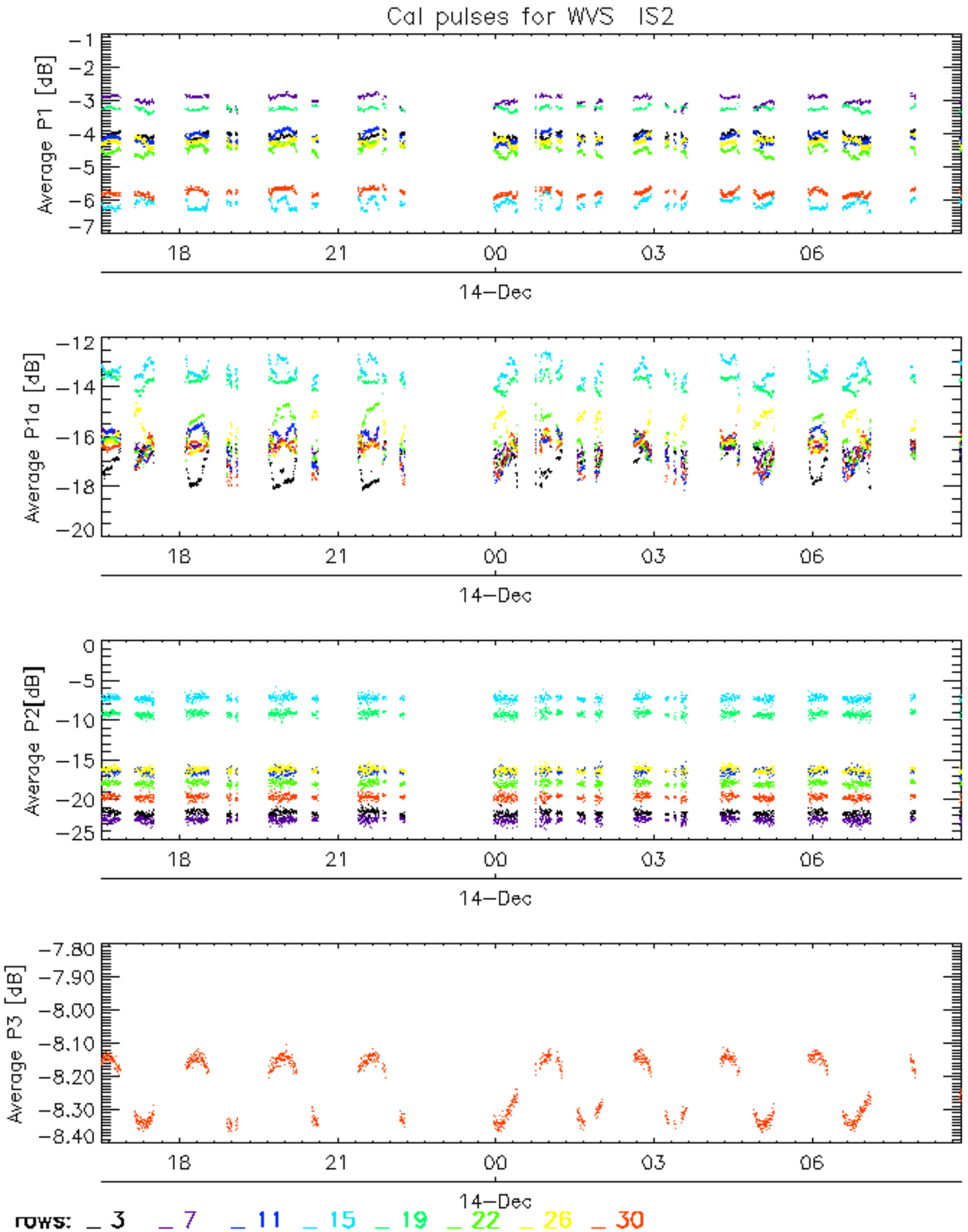

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
22
00
02
04
14−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
22
00
02
04
14−Dec
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
22
00
02
04
14−Dec
Phase P1a [deg]
200
100
0
−100
−200
22
00
02
04
14−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

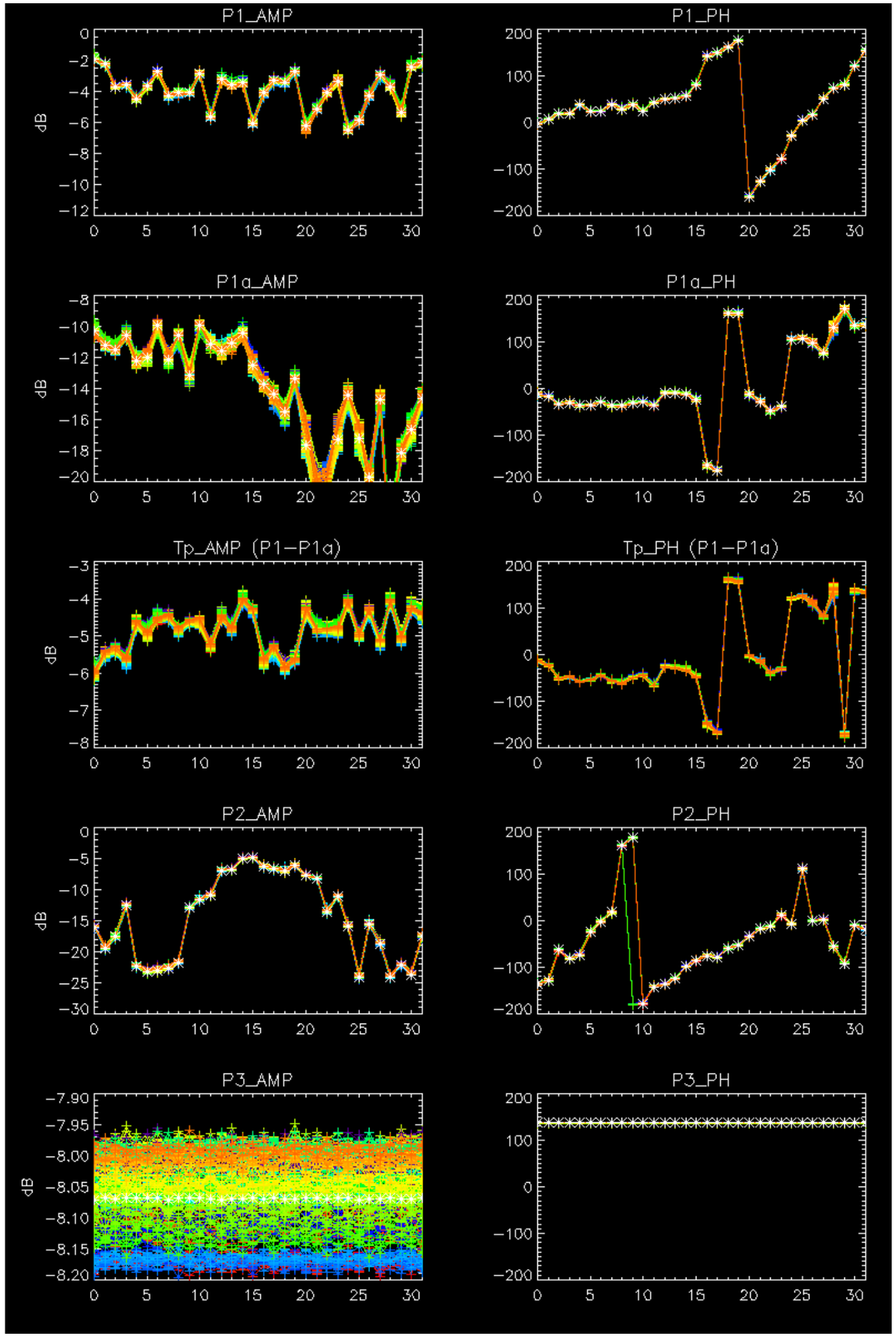

Cal pulses for GM1 SS3
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
22
00
02
04
14−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
22
00
02
04
14−Dec
Average P2[dB]
0
−5
−10
−15
−20
−25
22
00
02
04
14−Dec
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
22
00
02
04
14−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

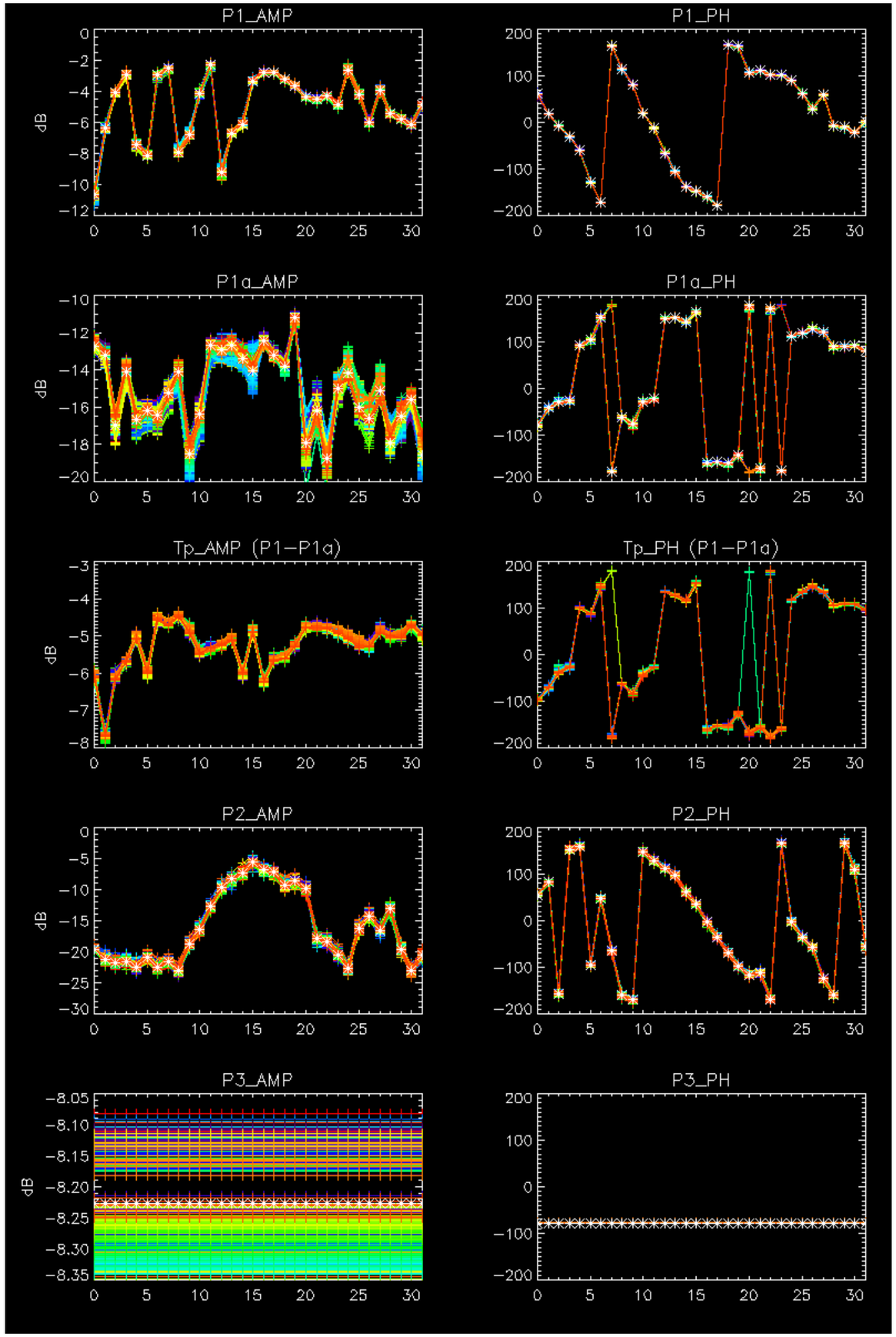

Cal pulses for WVS IS2
Average P1 [dB]
0
−2
−4
−6
−8
11−Nov
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
11−Dec
Average P1a [dB]
−8
−10
−12
−14
−16
−18
−20
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

No anomalies observed on available browse products

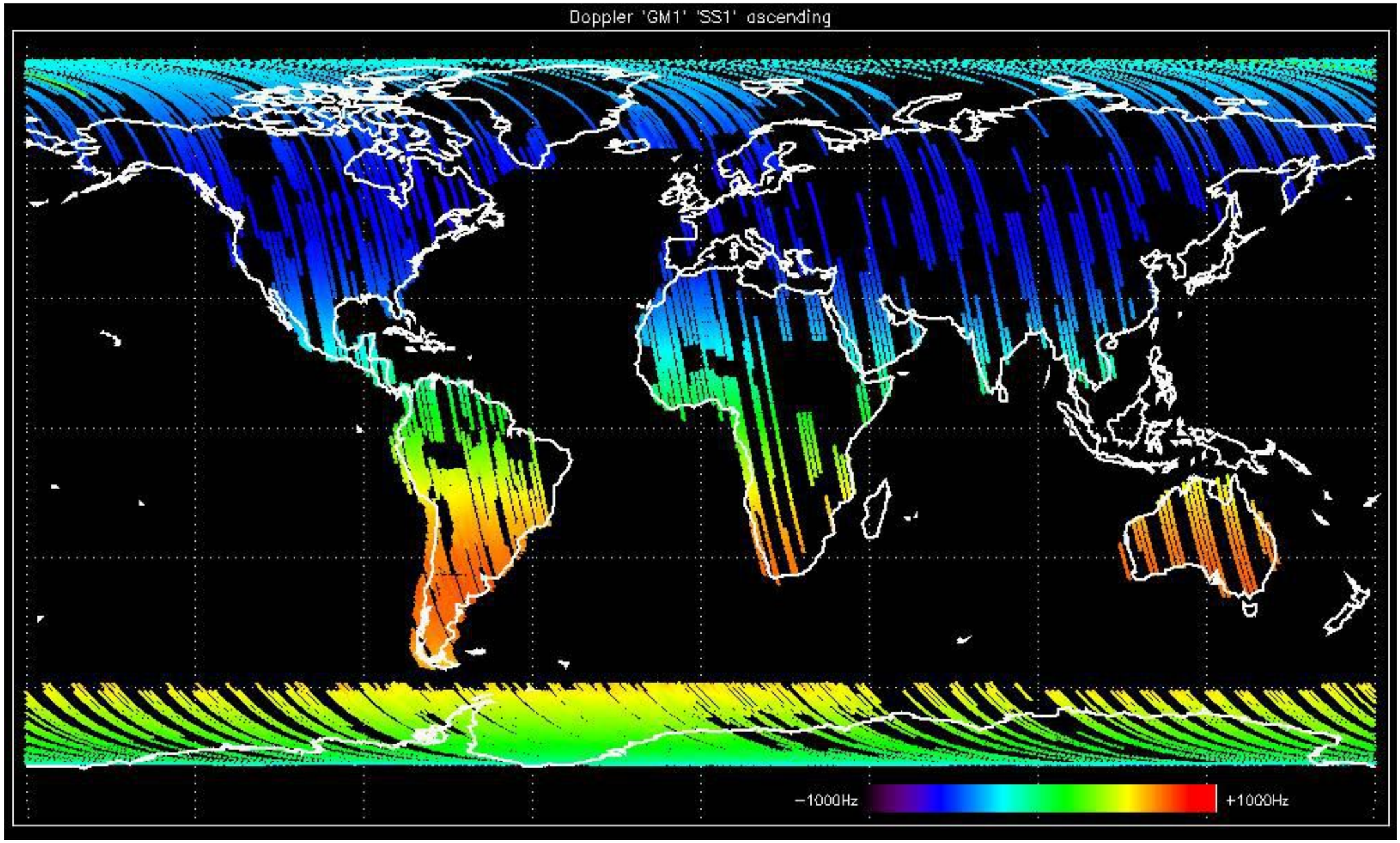
No anomalies observed.

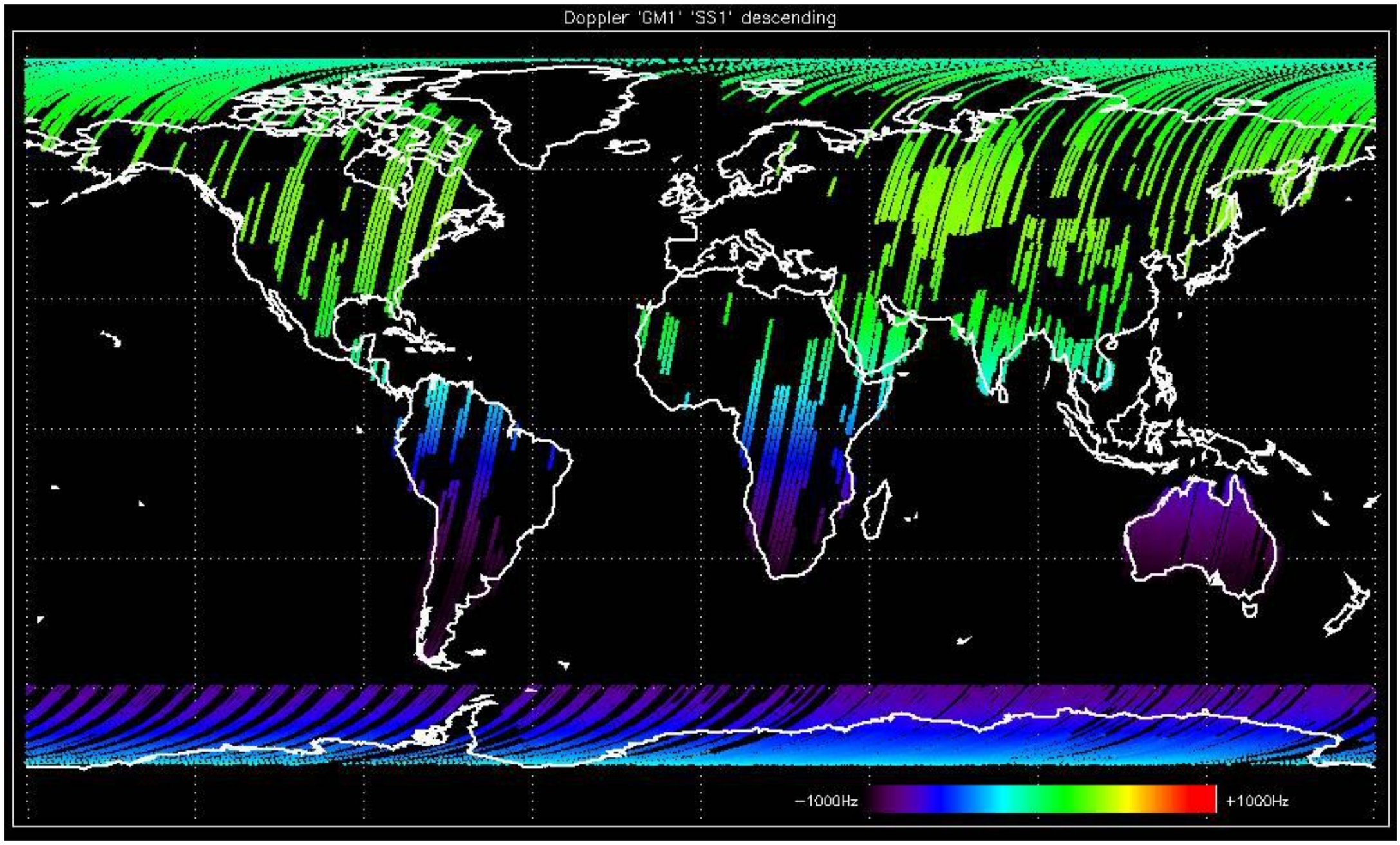

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

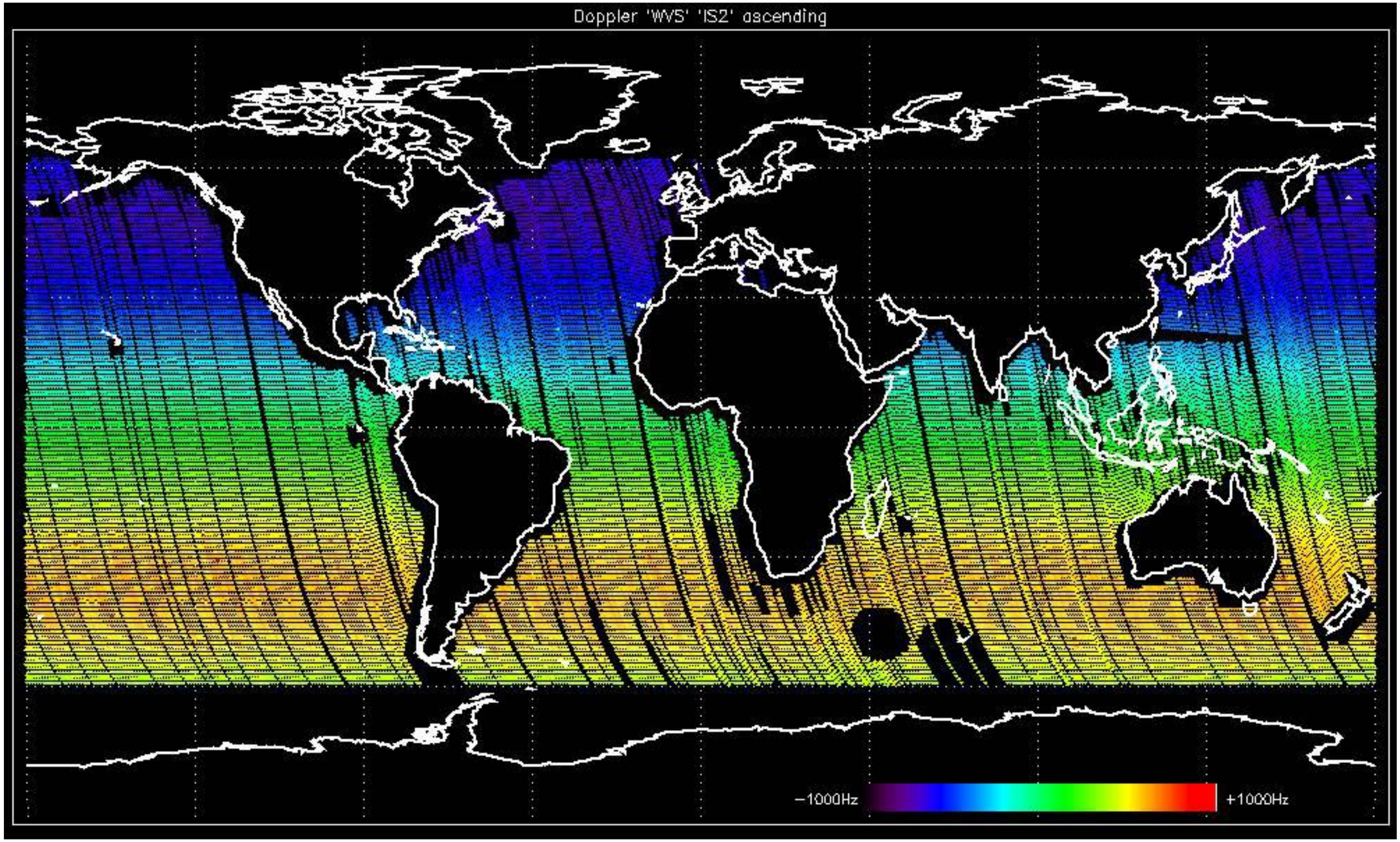

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

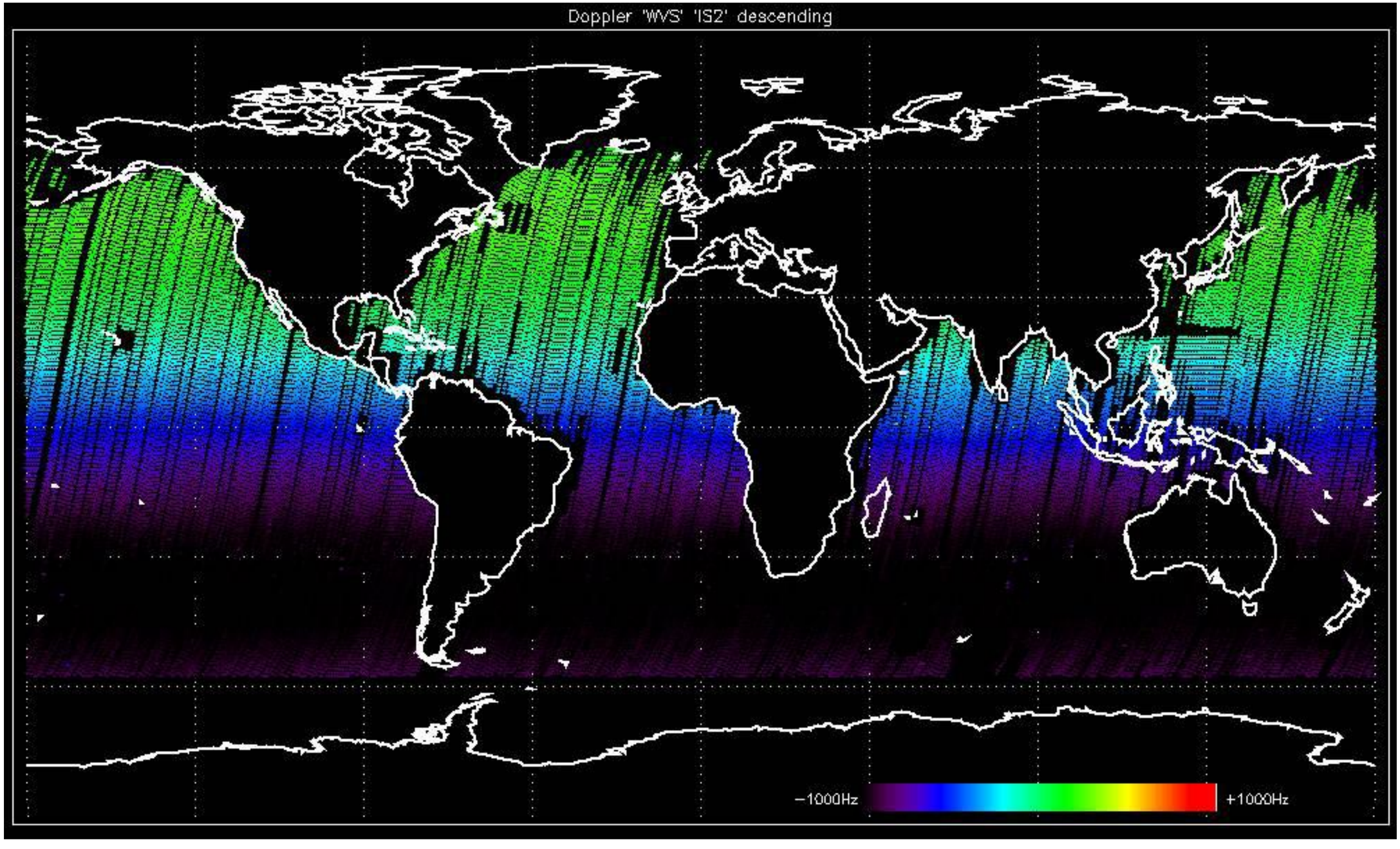
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

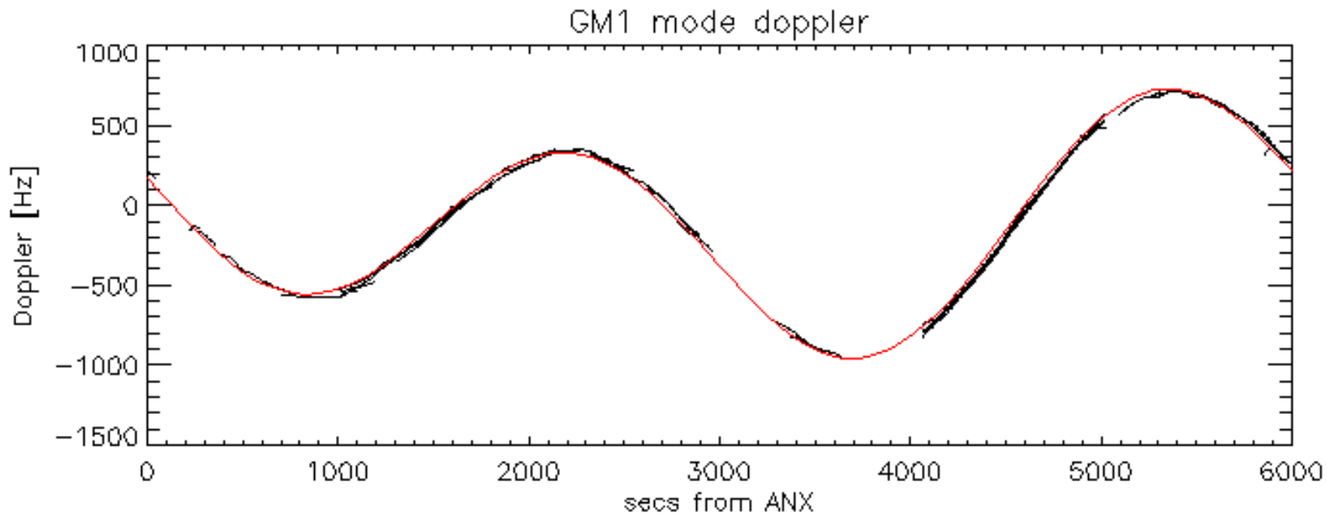
Preliminary report.The data is not yet controled

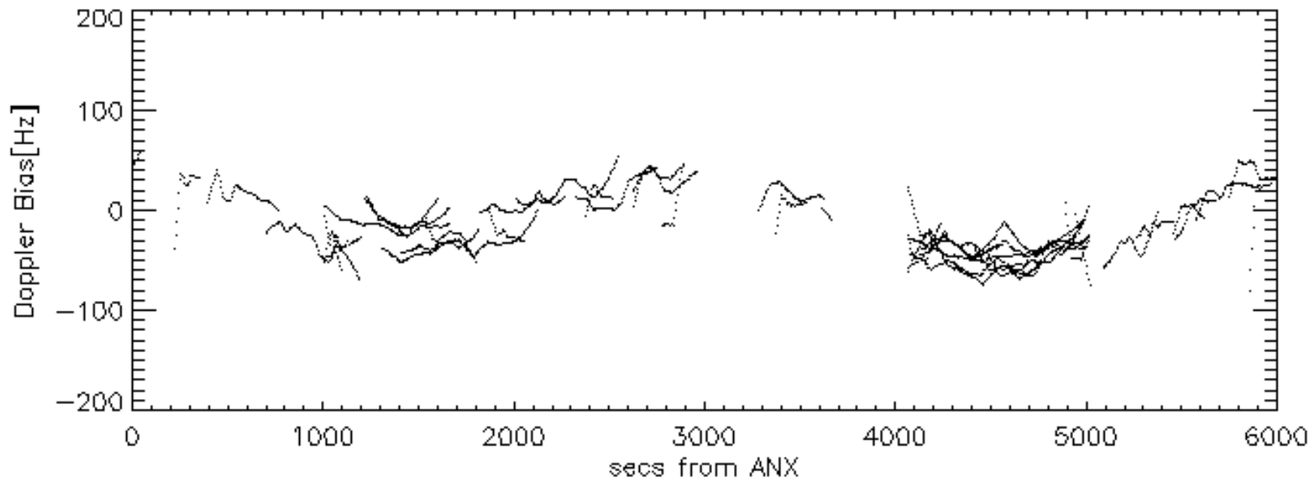

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

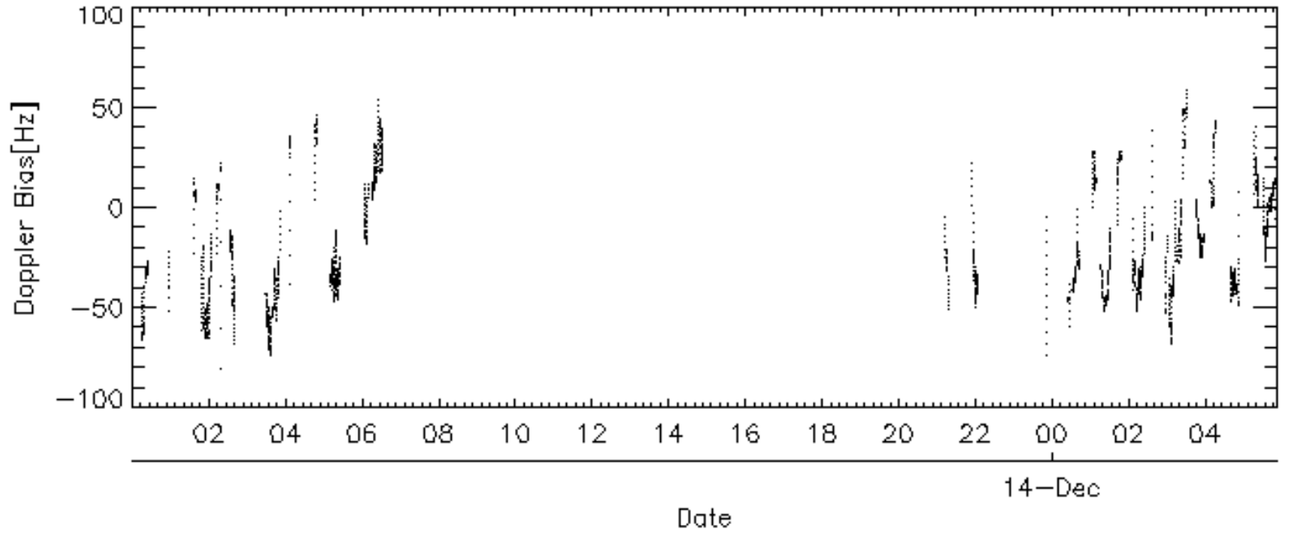

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

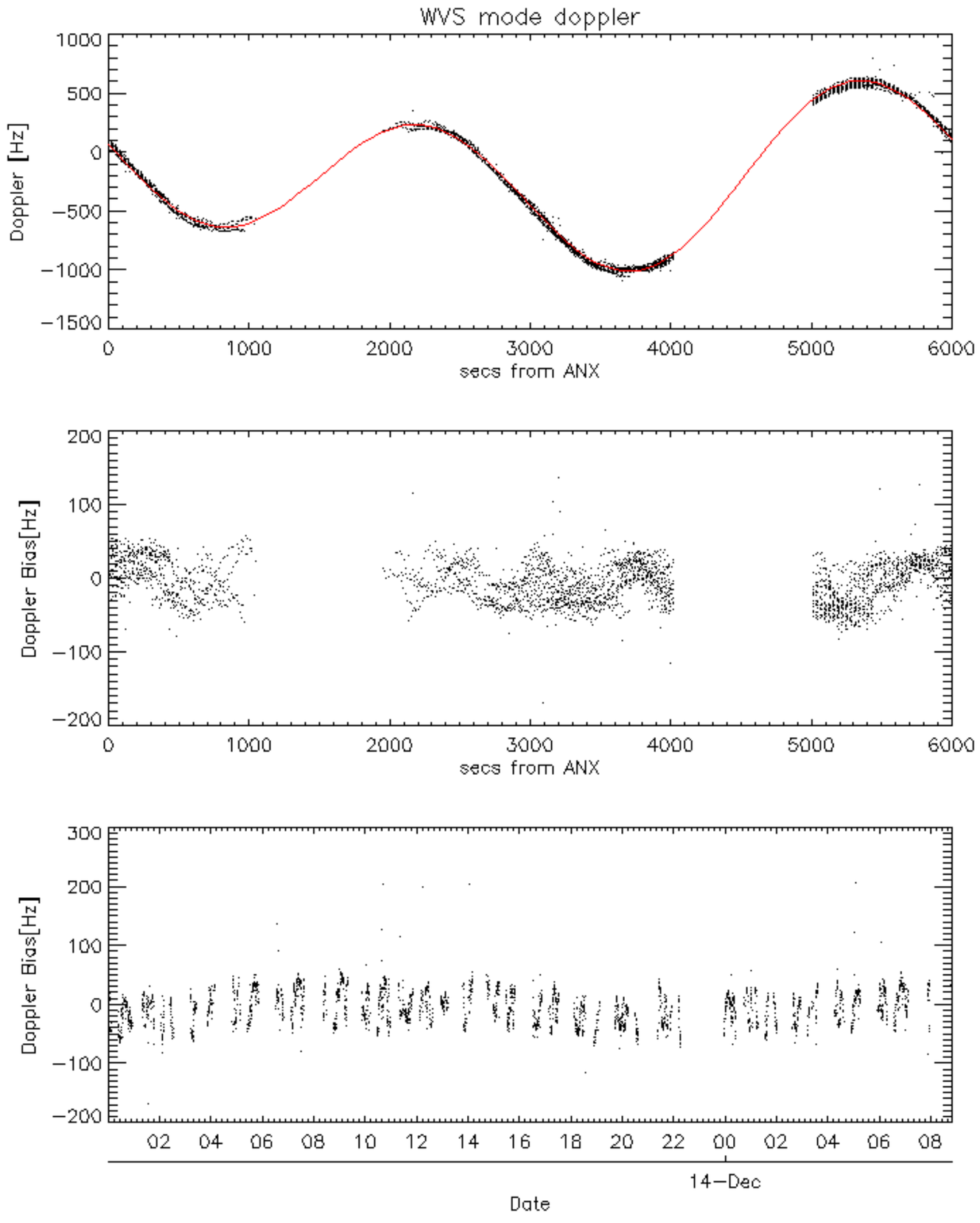

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

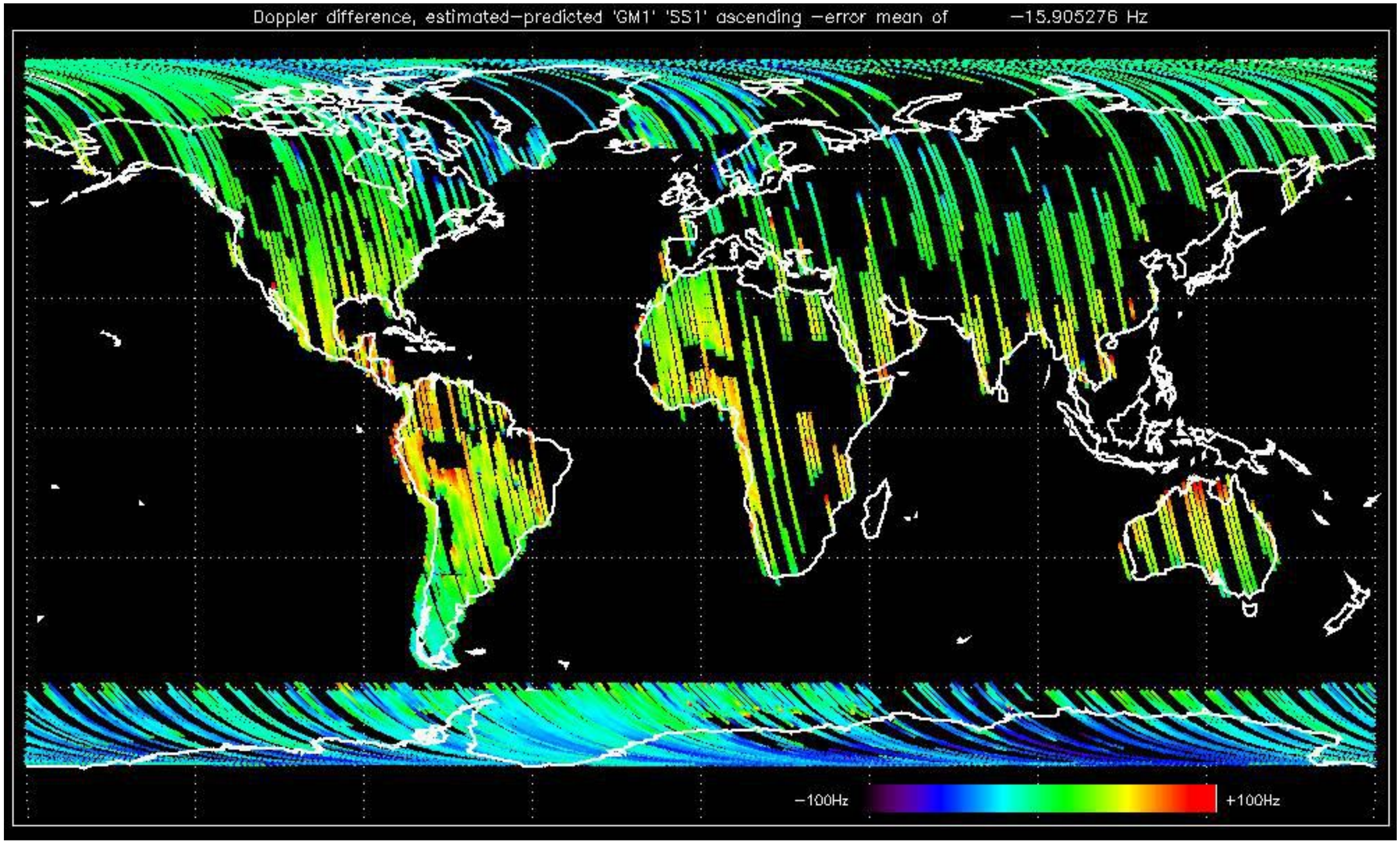

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

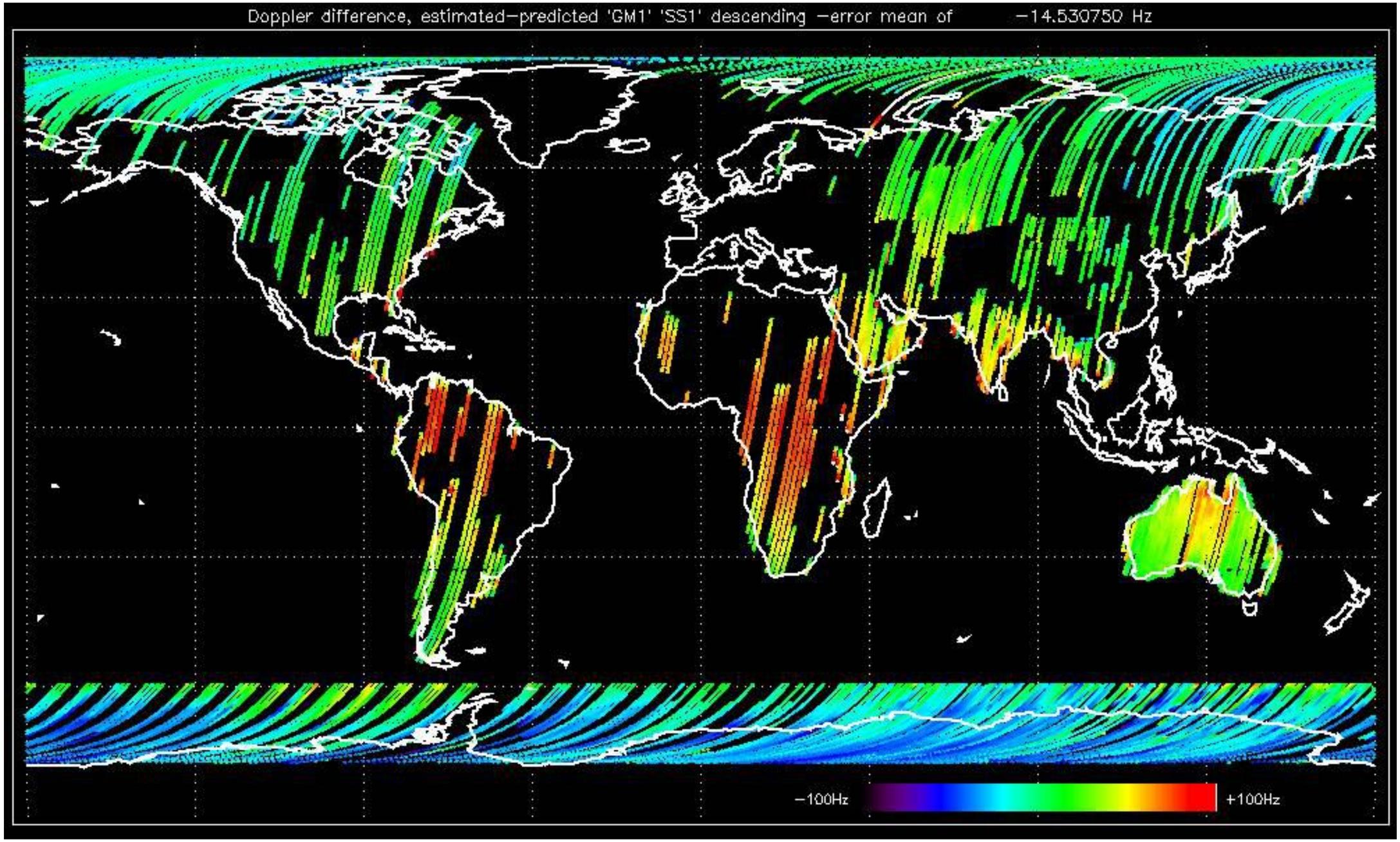

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

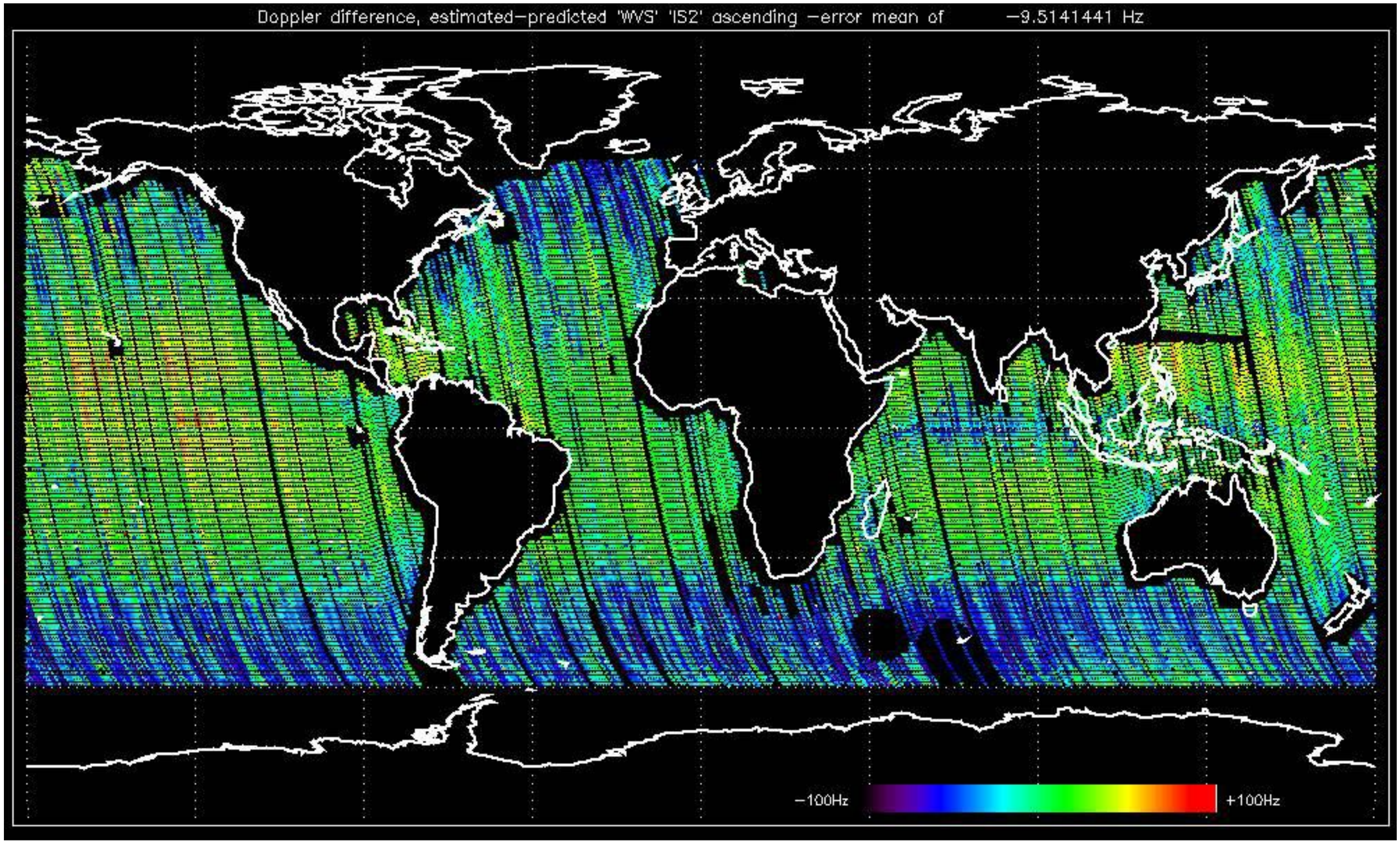

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

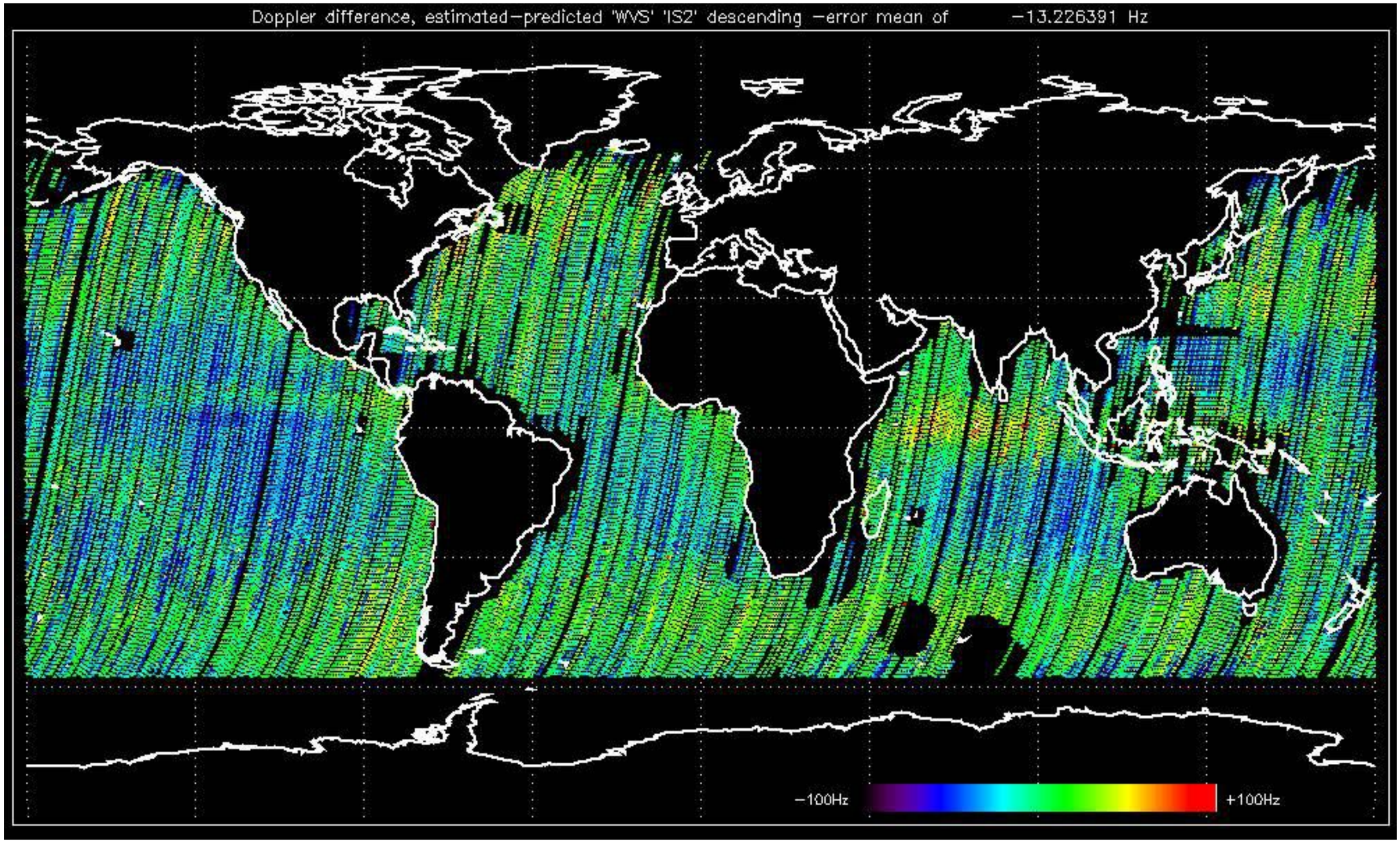

Doppler Bias[Hz]
100
50
0
−50
−100
02
04
06
08
10
12
14
16
18
20
22
00
02
04
14−Dec
Date


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
14−Dec
Date


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −15.905276 Hz
−100Hz
+100Hz

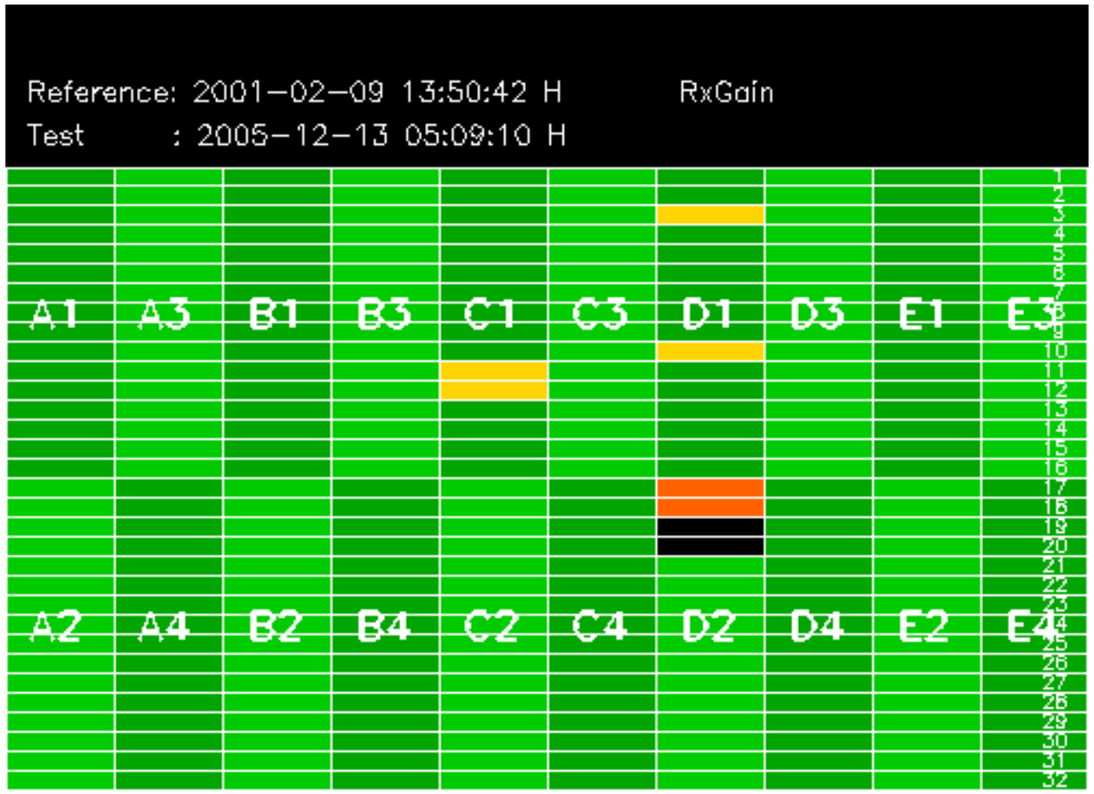

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −14.530750 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −9.5141441 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −13.226391 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2005-12-13 05:09:10 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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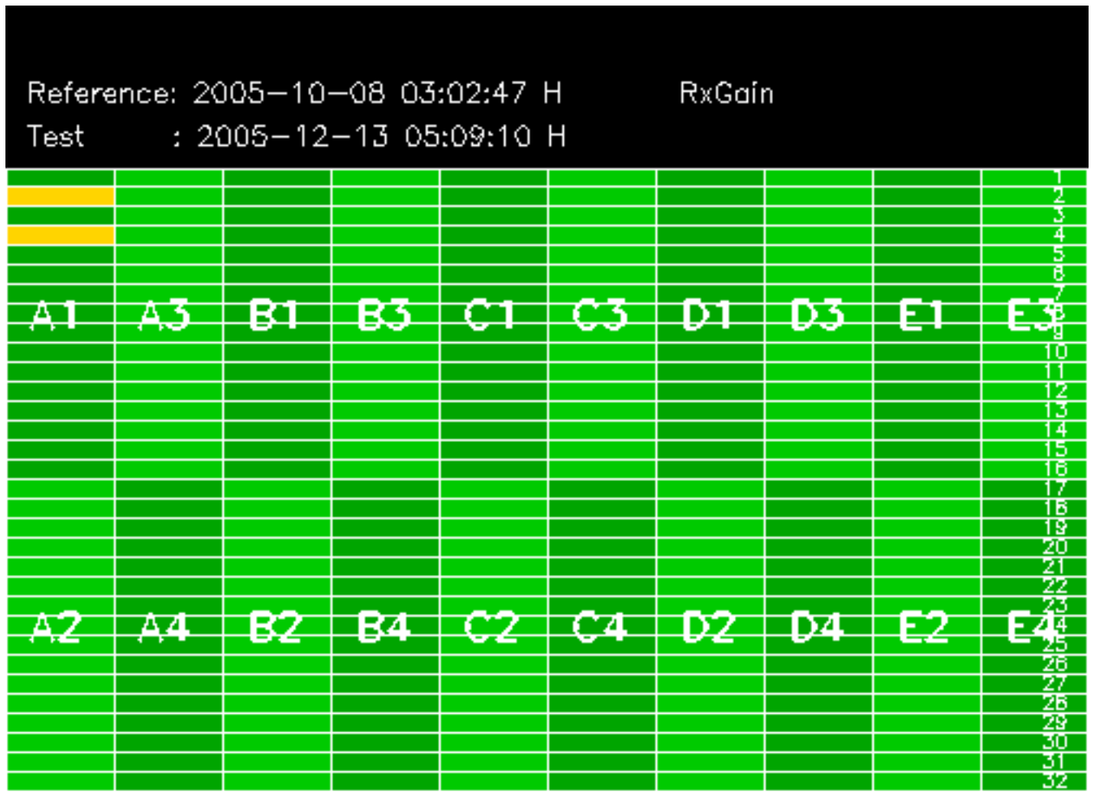
Reference: 2005-10-08 03:02:47 H
Test : 2005-12-13 05:09:10 H
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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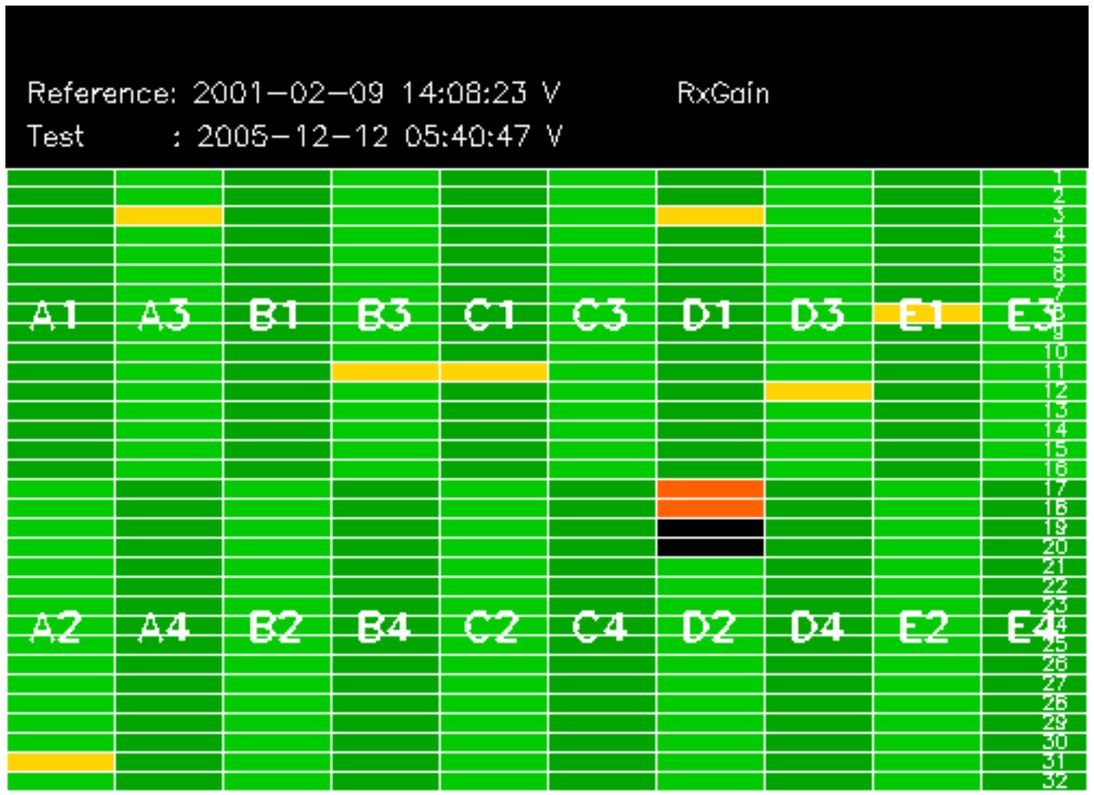
Reference: 2001-02-09 14:08:23 V
Test : 2005-12-12 05:40:47 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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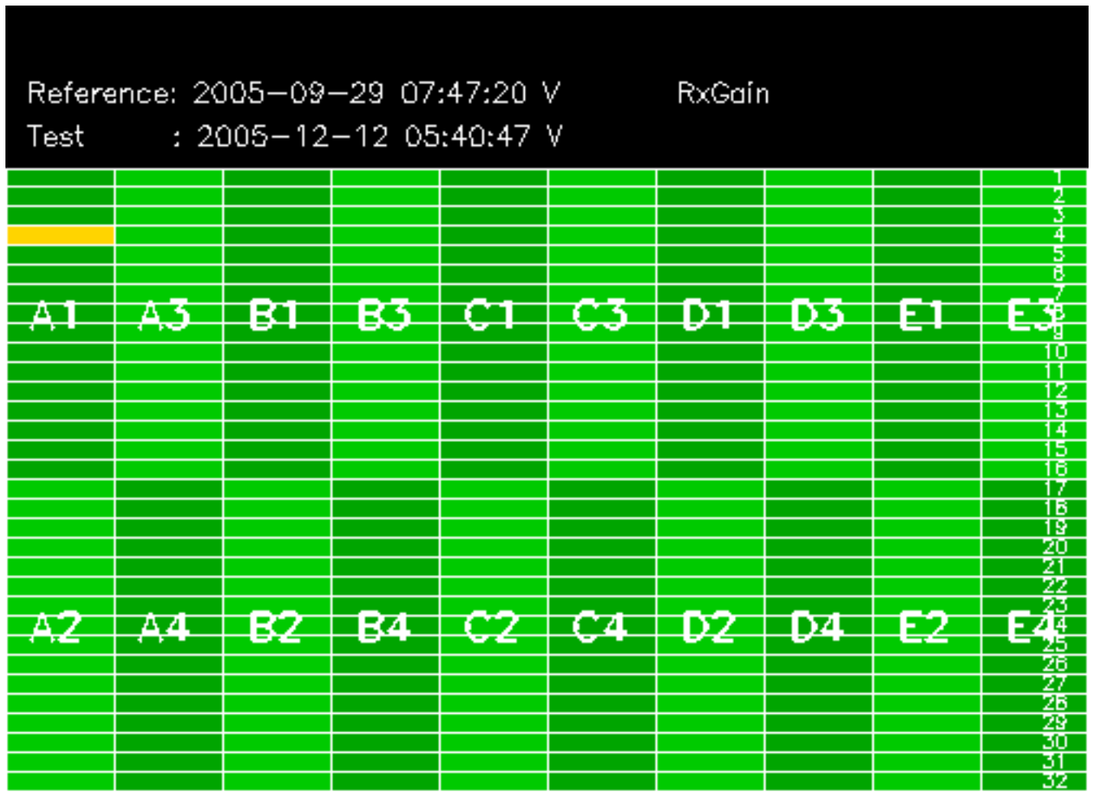
Reference: 2005-09-29 07:47:20 V
Test : 2005-12-12 05:40:47 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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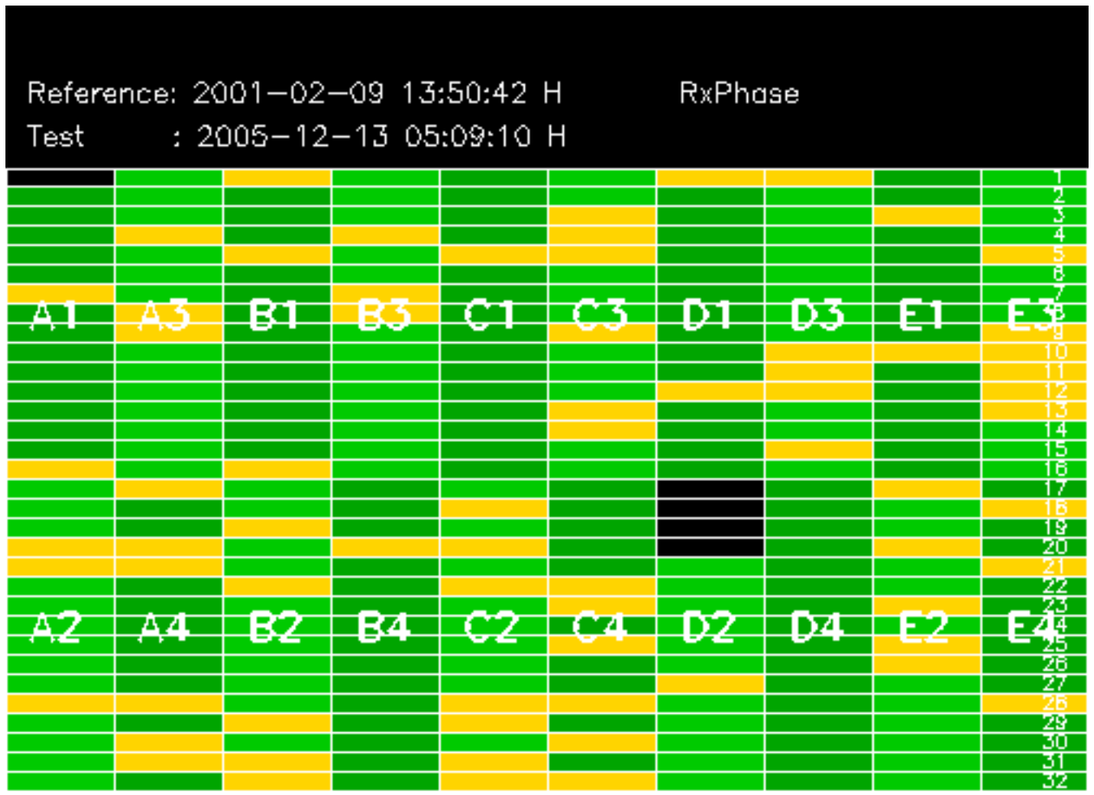
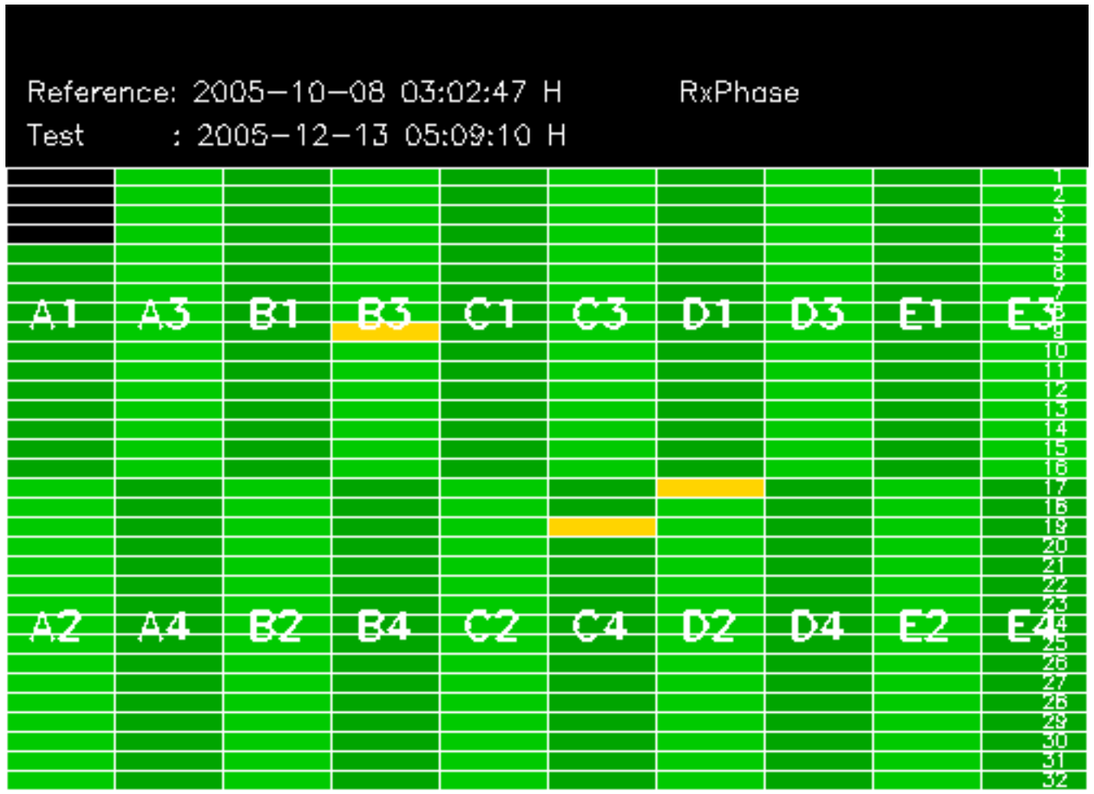

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2005-12-13 05:09:10 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2005-12-13 05:09:10 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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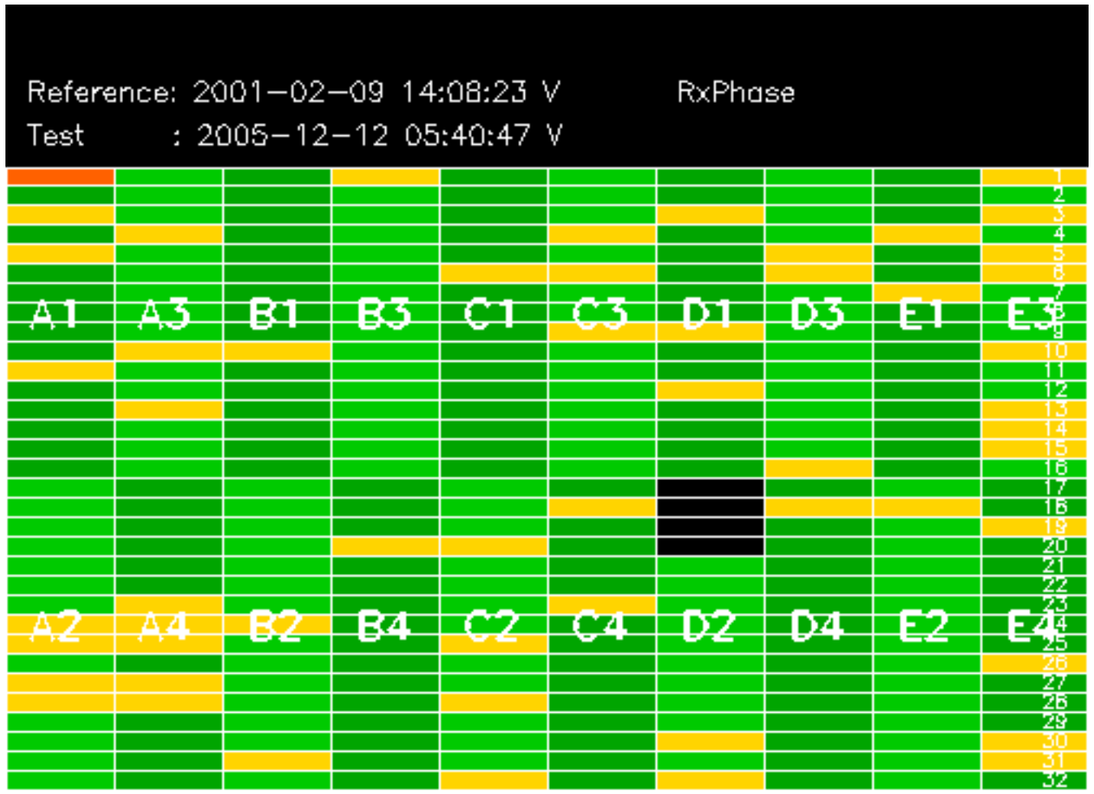
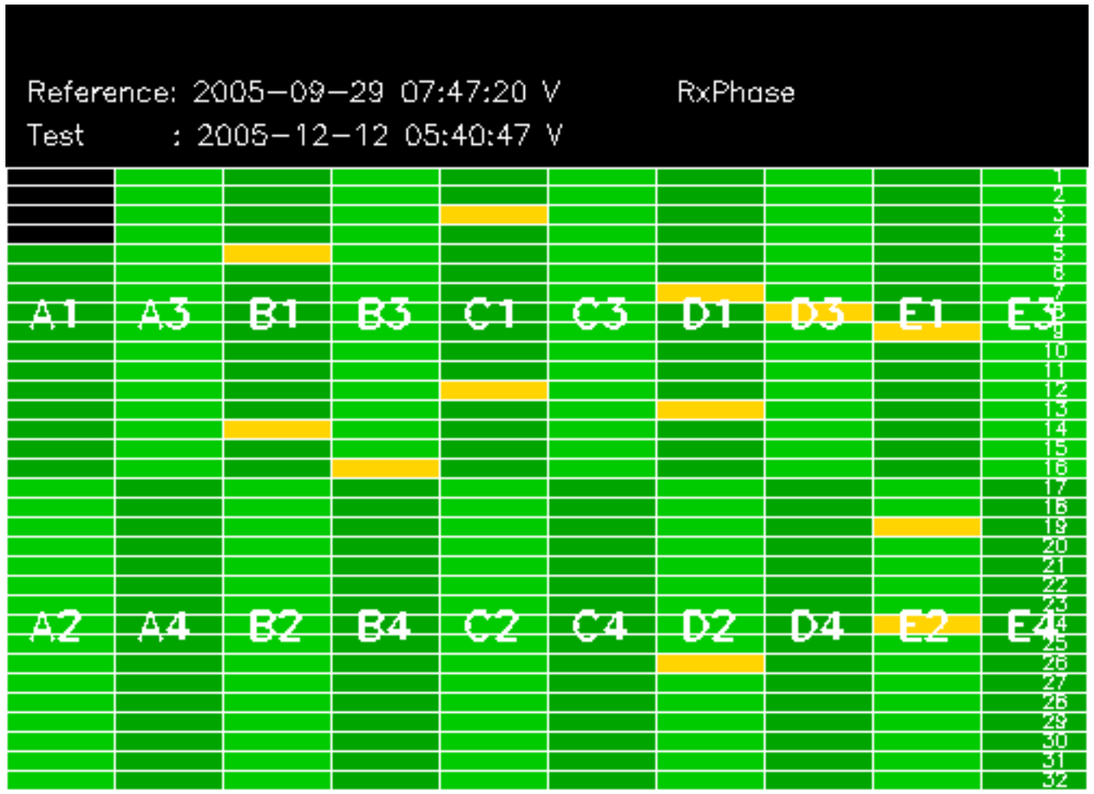

Reference: 2001-02-09 14:08:23 V
Test : 2005-12-12 05:40:47 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2005-12-12 05:40:47 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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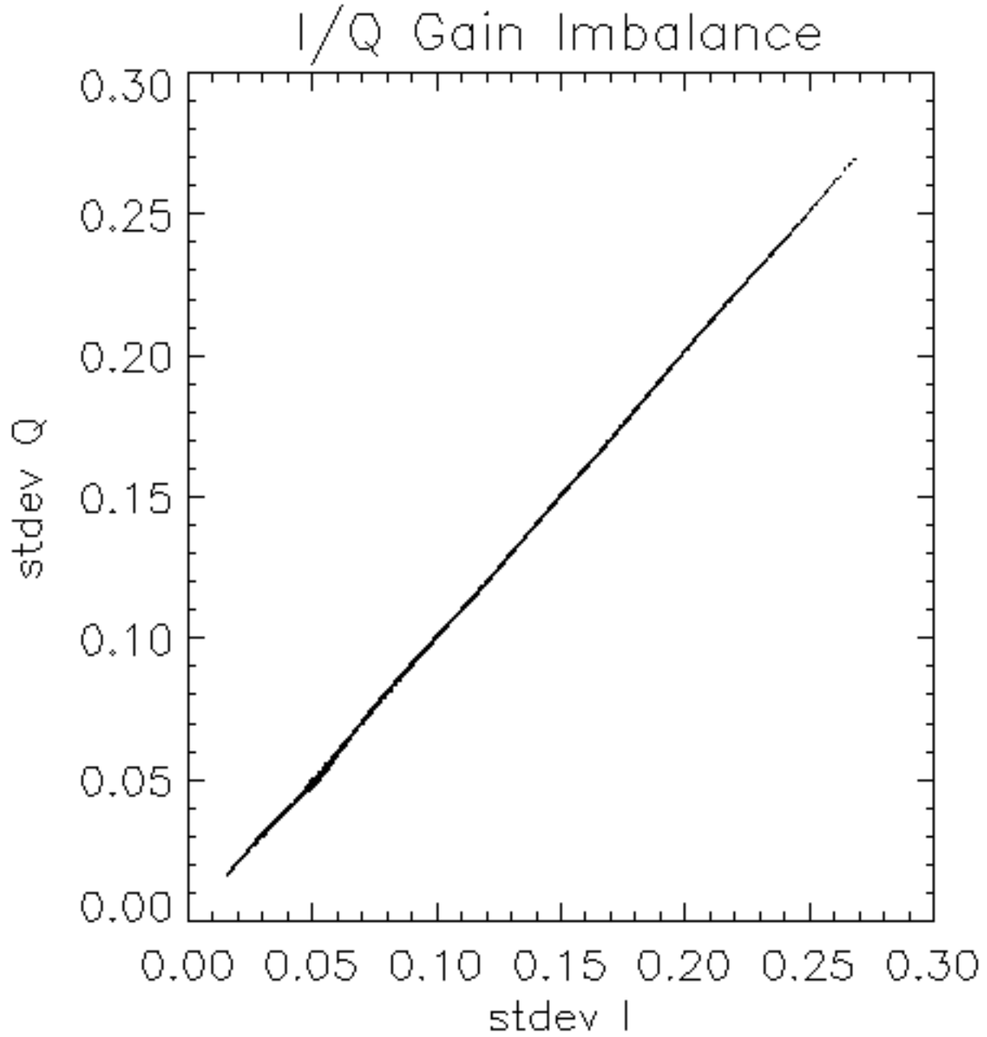
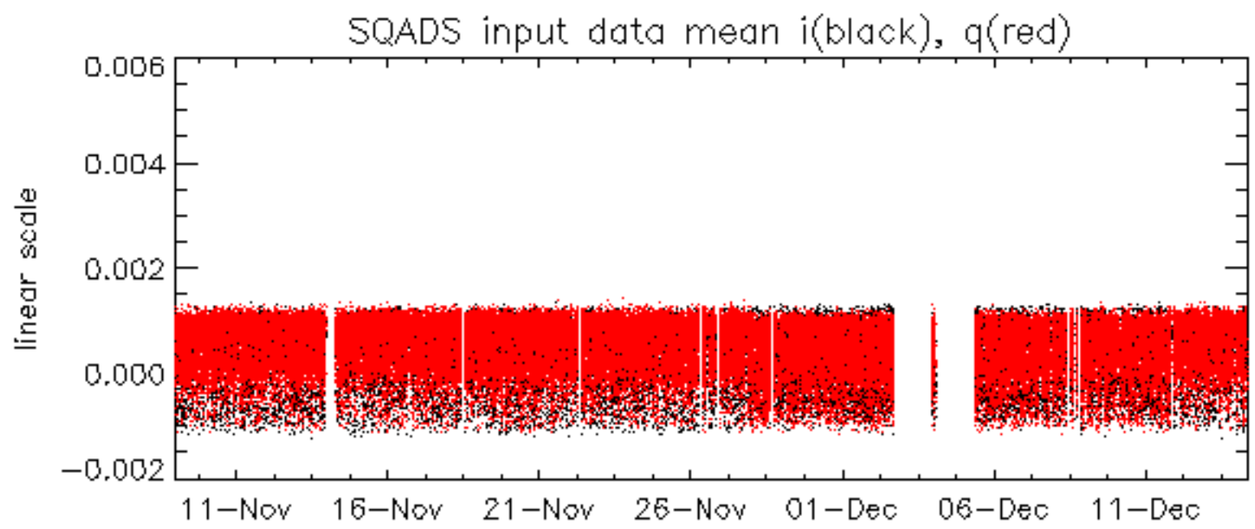
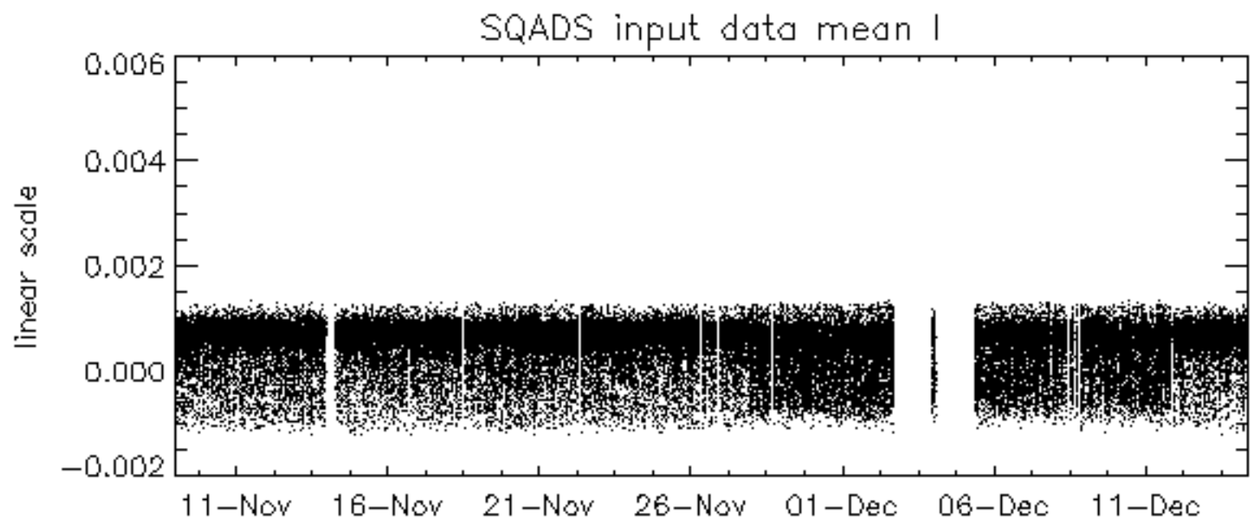
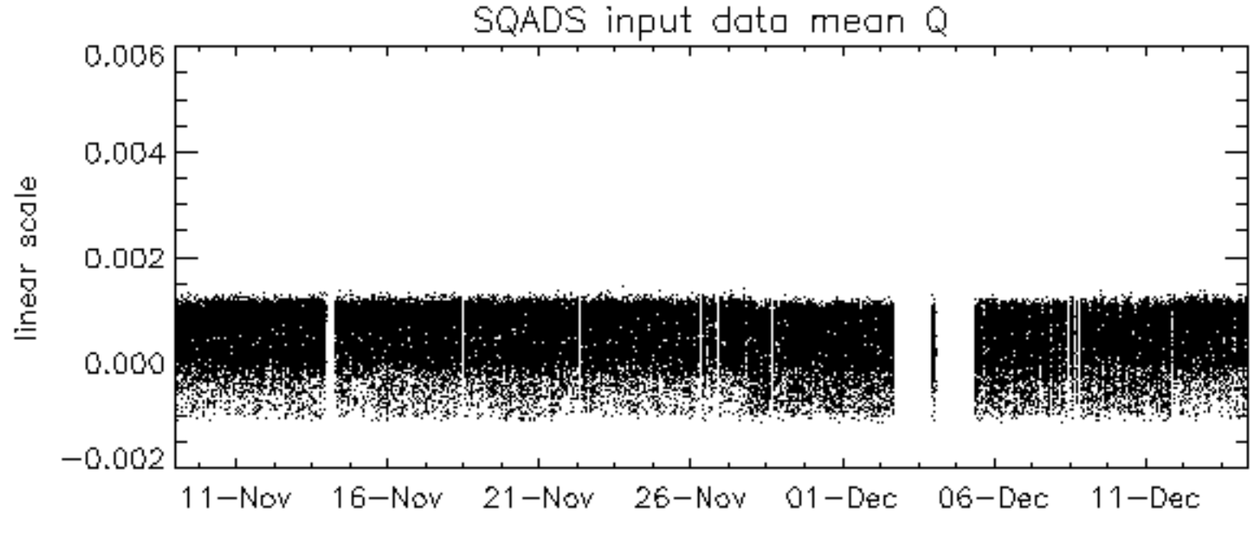
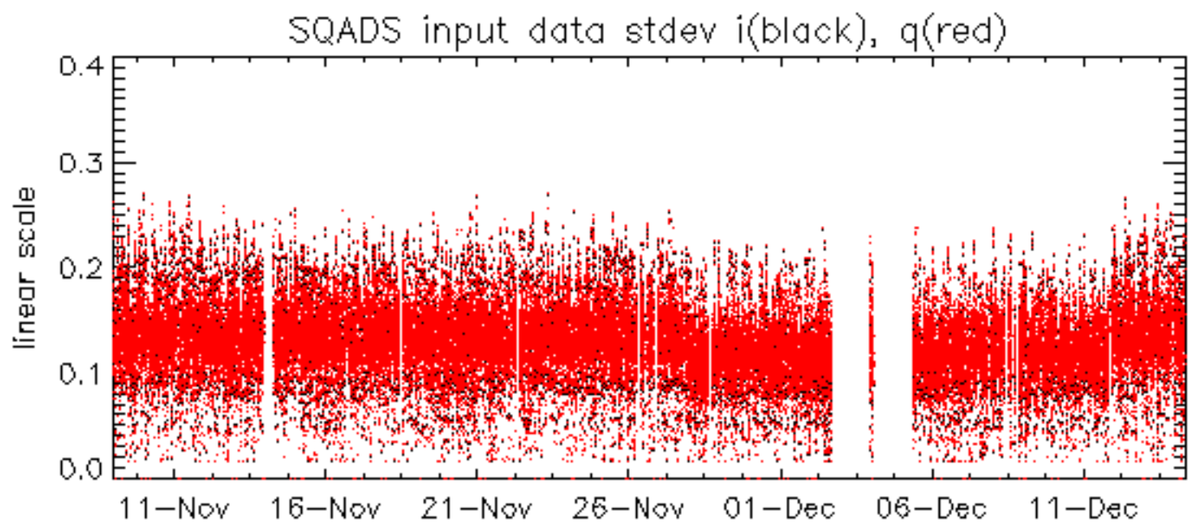
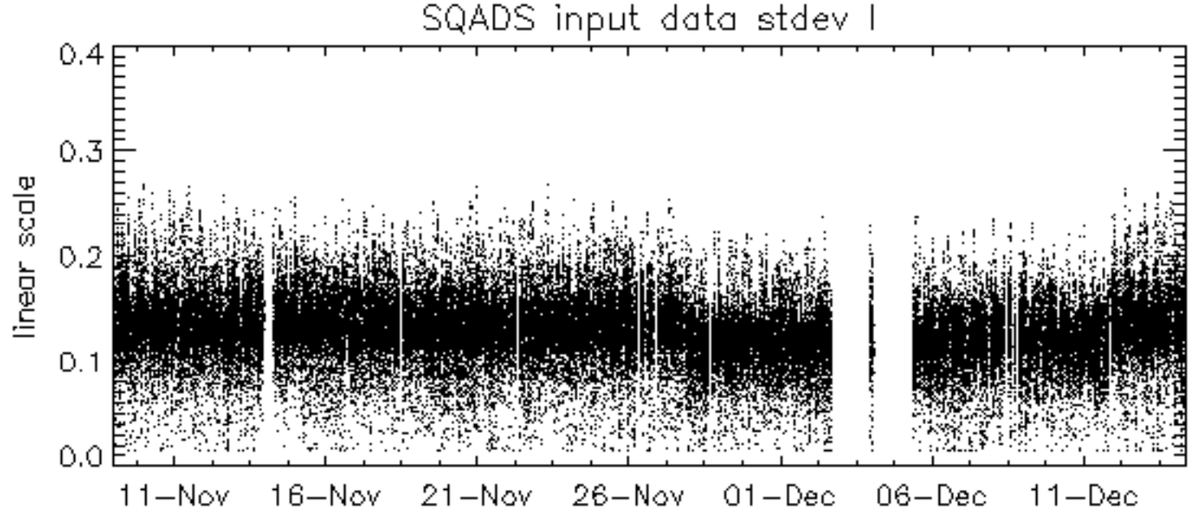

I/Q Gain Imbalance
0.30
0.25
0.20
0.15
0.10
0.05
0.00
stdev Q
0.00 0.05 0.10 0.15 0.20 0.25 0.30
stdev I

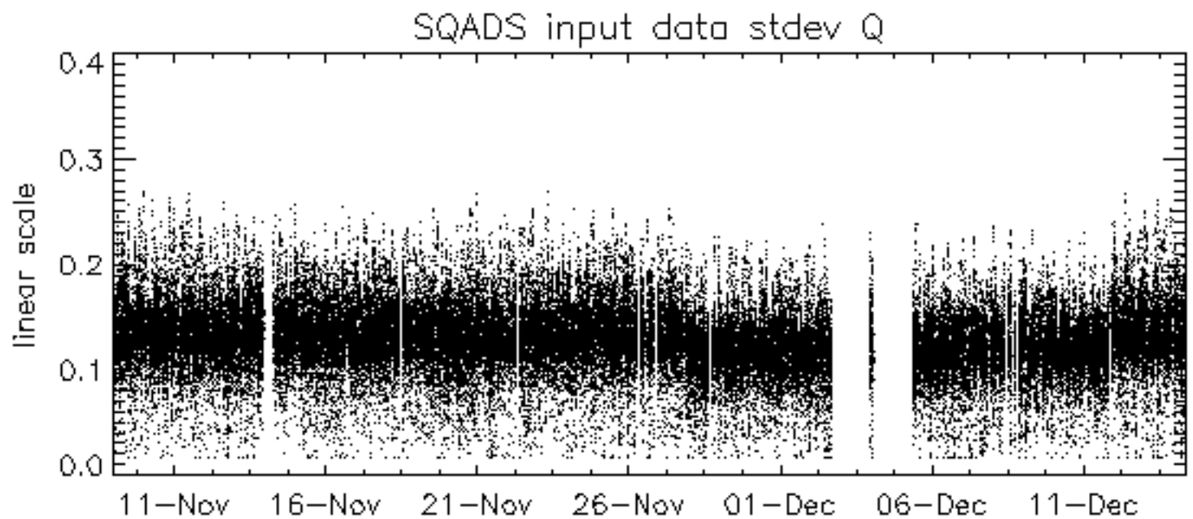

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Nov
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
11−Dec

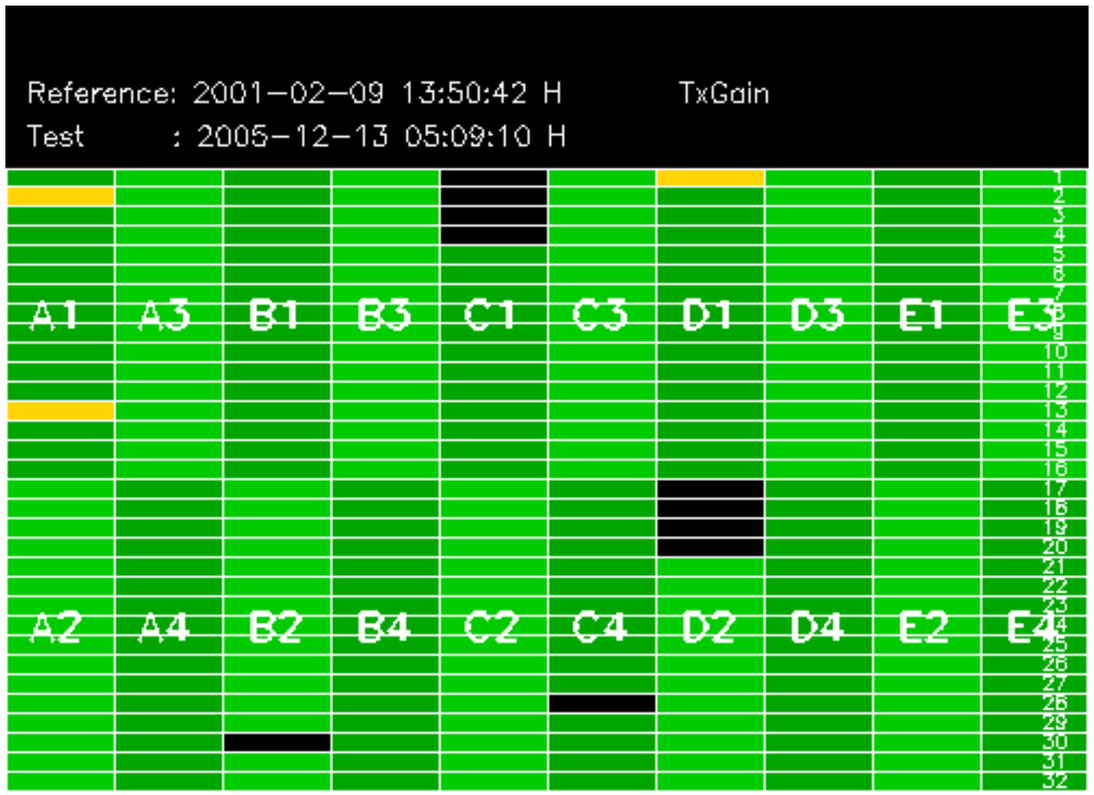

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Nov
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
11−Dec


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
11−Nov
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
11−Dec


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
11−Nov
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
11−Dec


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
11−Nov
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
11−Dec


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
11−Nov
16−Nov
21−Nov
26−Nov
01−Dec
06−Dec
11−Dec


Reference: 2001-02-09 13:50:42 H
Test : 2005-12-13 05:09:10 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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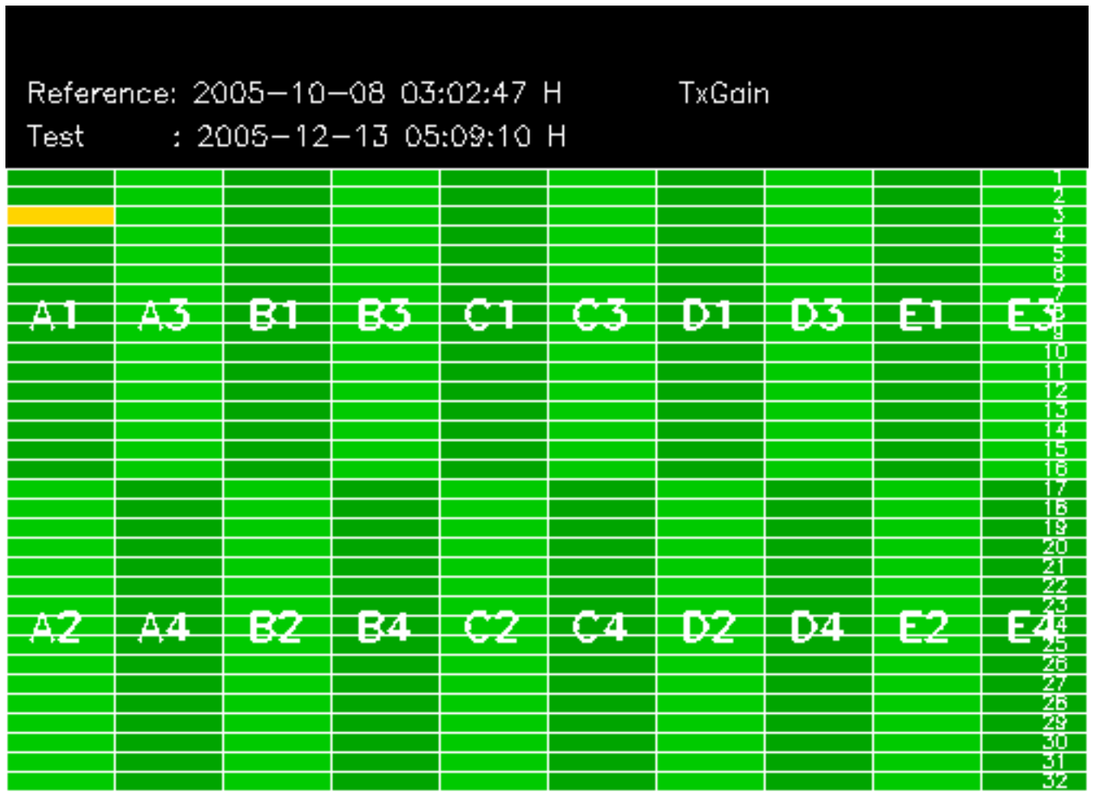
Reference: 2005-10-08 03:02:47 H
Test : 2005-12-13 05:09:10 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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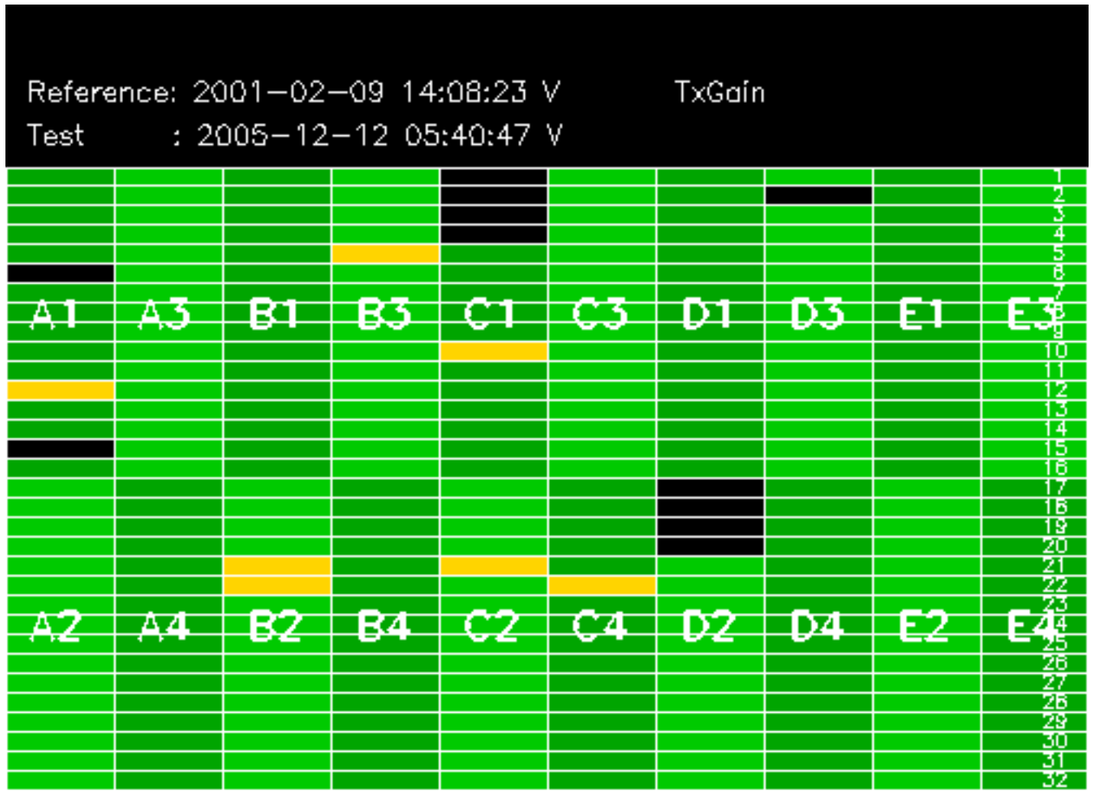
Reference: 2001-02-09 14:08:23 V
Test : 2005-12-12 05:40:47 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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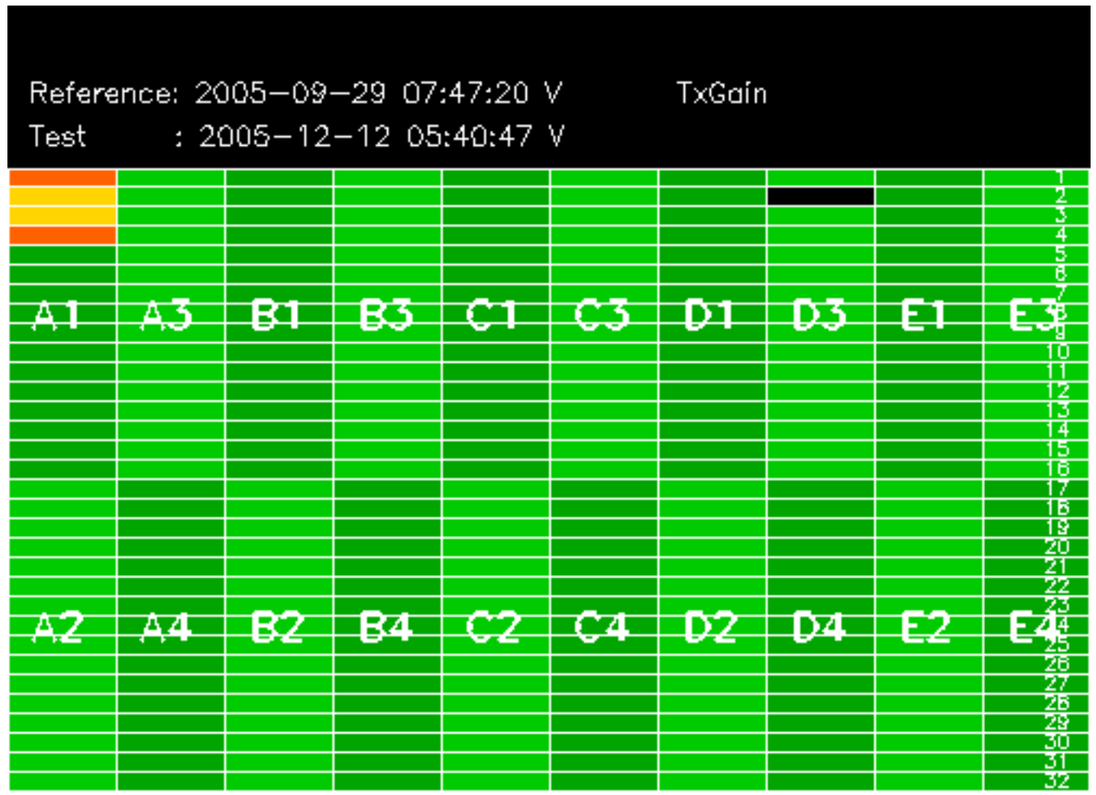
Reference: 2005-09-29 07:47:20 V
Test : 2005-12-12 05:40:47 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
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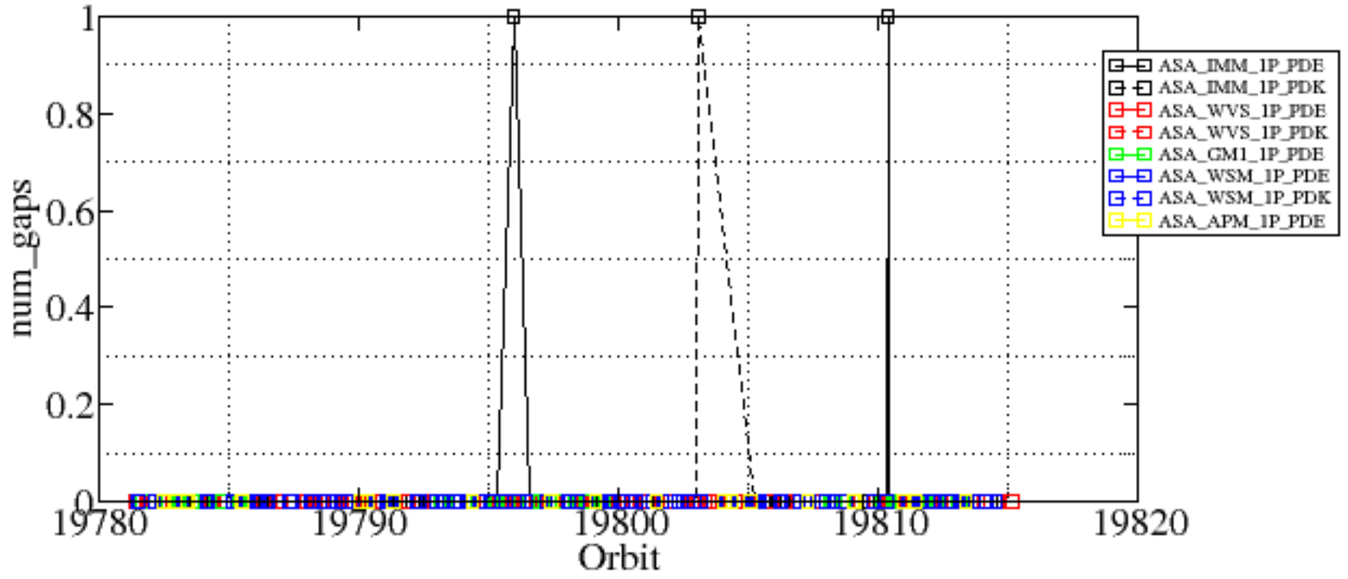
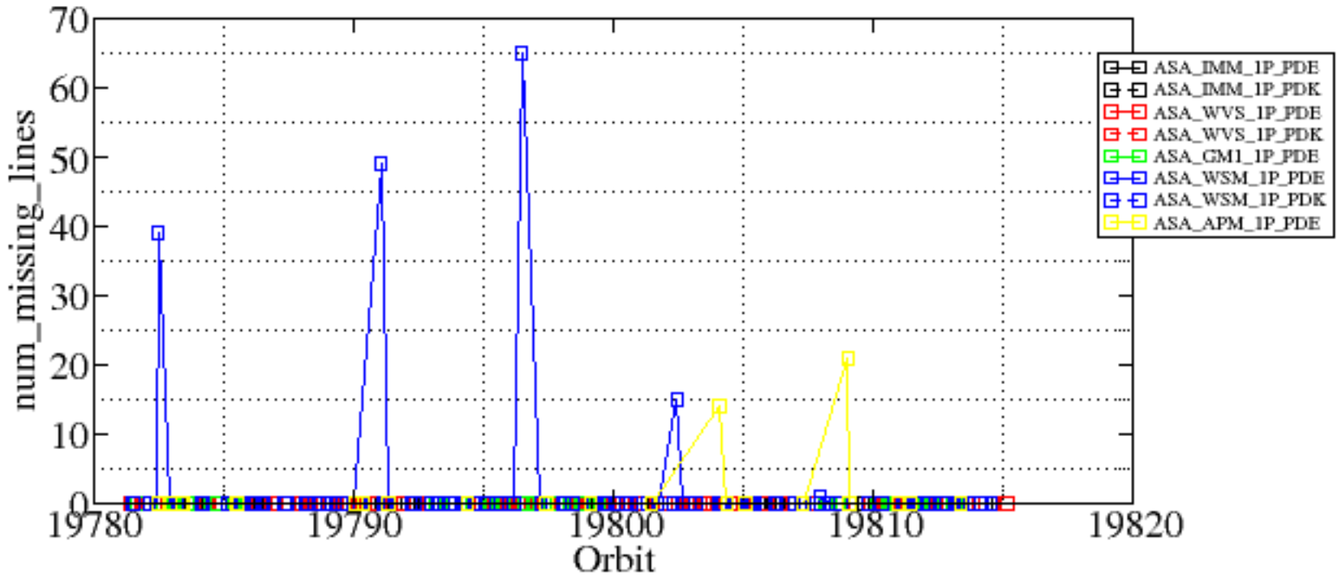
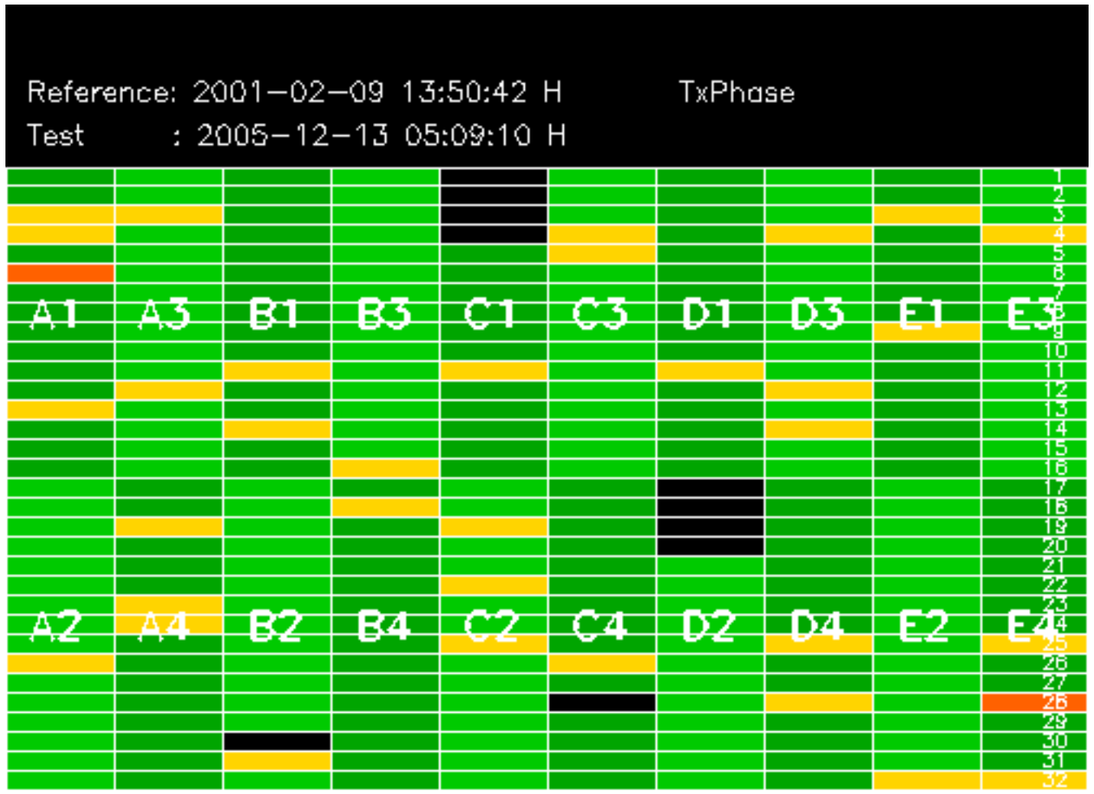
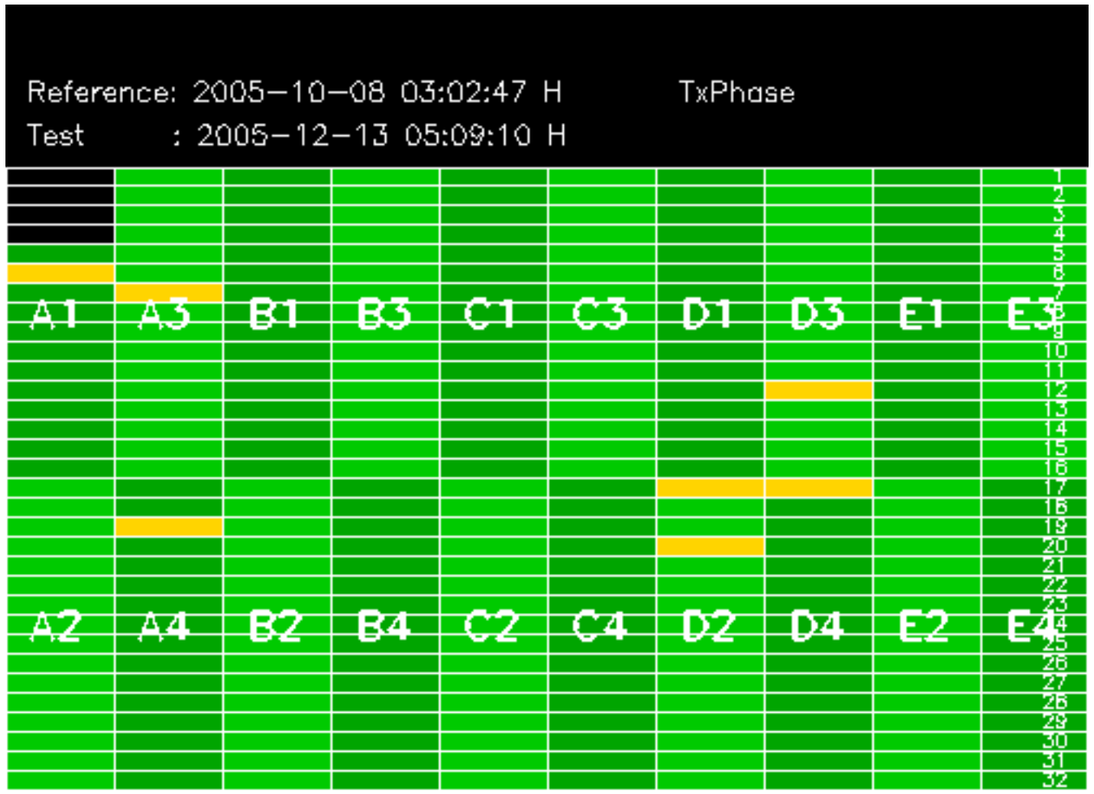
Summary of analysis for the last 3 days 2005121[234]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems
<table border=1>
<tr> <th>Filename </th><th> num_gaps</th><th>num_missing_lines</th></tr>
<tr> <td>ASA_IMM_1PNPDE20051213_003723_000001162043_00202_19795_3834.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDE20051214_004627_000001012043_00217_19810_3913.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_IMM_1PNPDK20051213_123408_000000812043_00210_19803_9153.N1 </td> <td>1 </td> <td>0 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051212_015902_000001842043_00189_19782_3870.N1 </td> <td>0 </td> <td>39 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051212_162339_000002072043_00198_19791_3936.N1 </td> <td>0 </td> <td>49 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051213_012705_000001472043_00203_19796_4009.N1 </td> <td>0 </td> <td>65 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051213_112835_000001592043_00209_19802_4068.N1 </td> <td>0 </td> <td>15 </td></tr>
<tr> <td>ASA_WSM_1PNPDE20051213_204345_000000612043_00214_19807_4111.N1 </td> <td>0 </td> <td>1 </td></tr>
<tr> <td>ASA_APM_1PNPDE20051213_141144_000000712043_00211_19804_3369.N1 </td> <td>0 </td> <td>14 </td></tr>
<tr> <td>ASA_APM_1PNPDE20051213_223010_000000432043_00216_19809_3379.N1 </td> <td>0 </td> <td>21 </td></tr>
</table>


num_gaps
Orbit
1
0.8
0.6
0.4
0.2
0
19780
19790
19800
19810
19820
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


num_missing_lines
70
60
50
40
30
20
10
0
19780
19790
19800
19810
19820
Orbit
ASA_IMM_1P_PDE
ASA_IMM_1P_PDK
ASA_WVS_1P_PDE
ASA_WVS_1P_PDK
ASA_GM1_1P_PDE
ASA_WSM_1P_PDE
ASA_WSM_1P_PDK
ASA_APM_1P_PDE


Reference: 2001-02-09 13:50:42 H
TxPhase
Test : 2005-12-13 05:09:10 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-10-08 03:02:47 H
Test : 2005-12-13 05:09:10 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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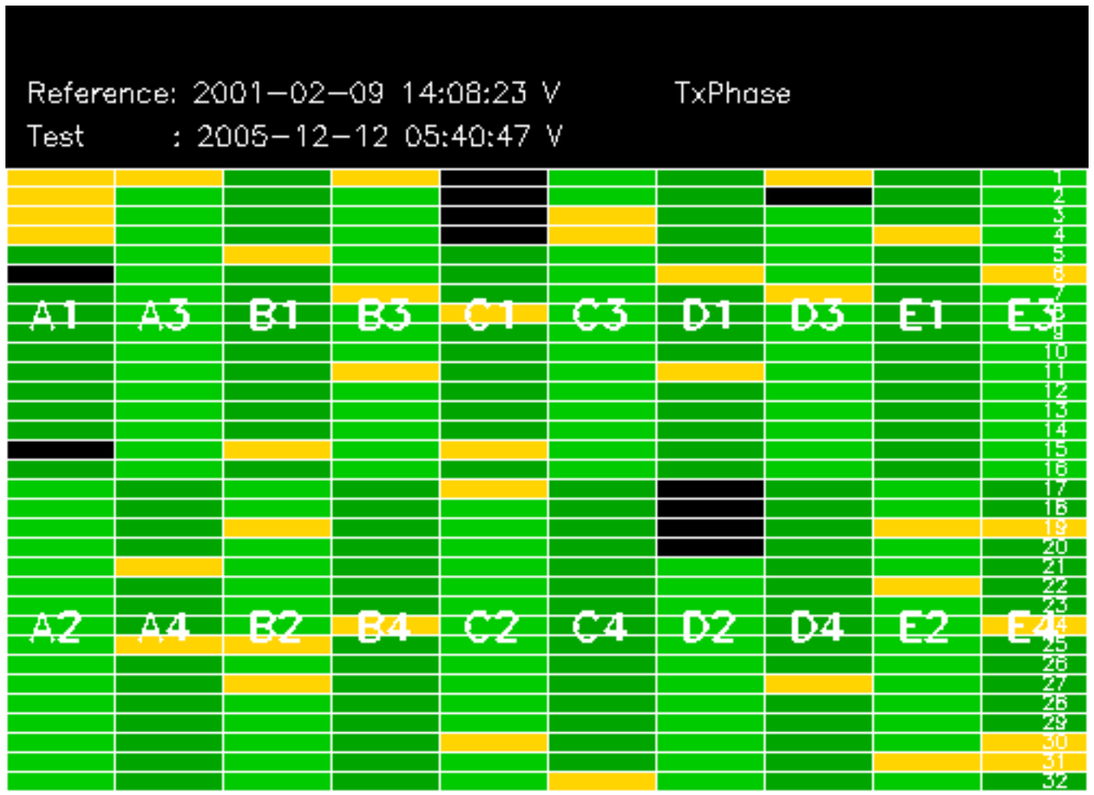
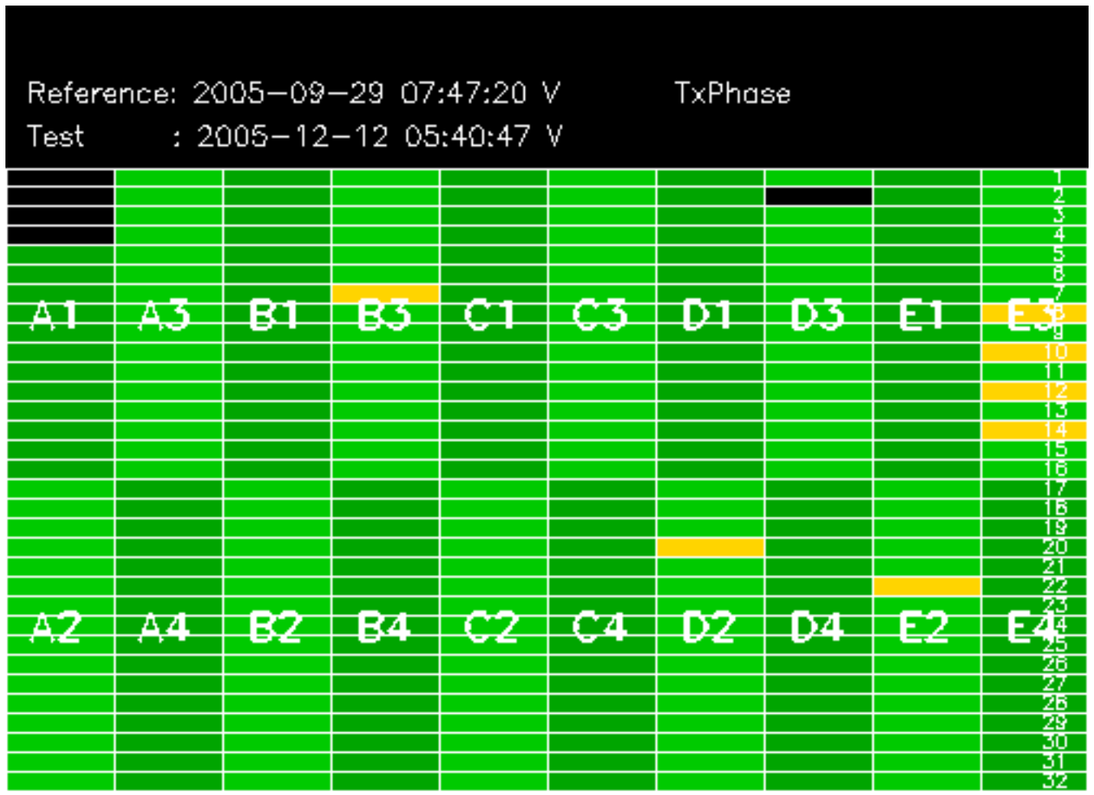
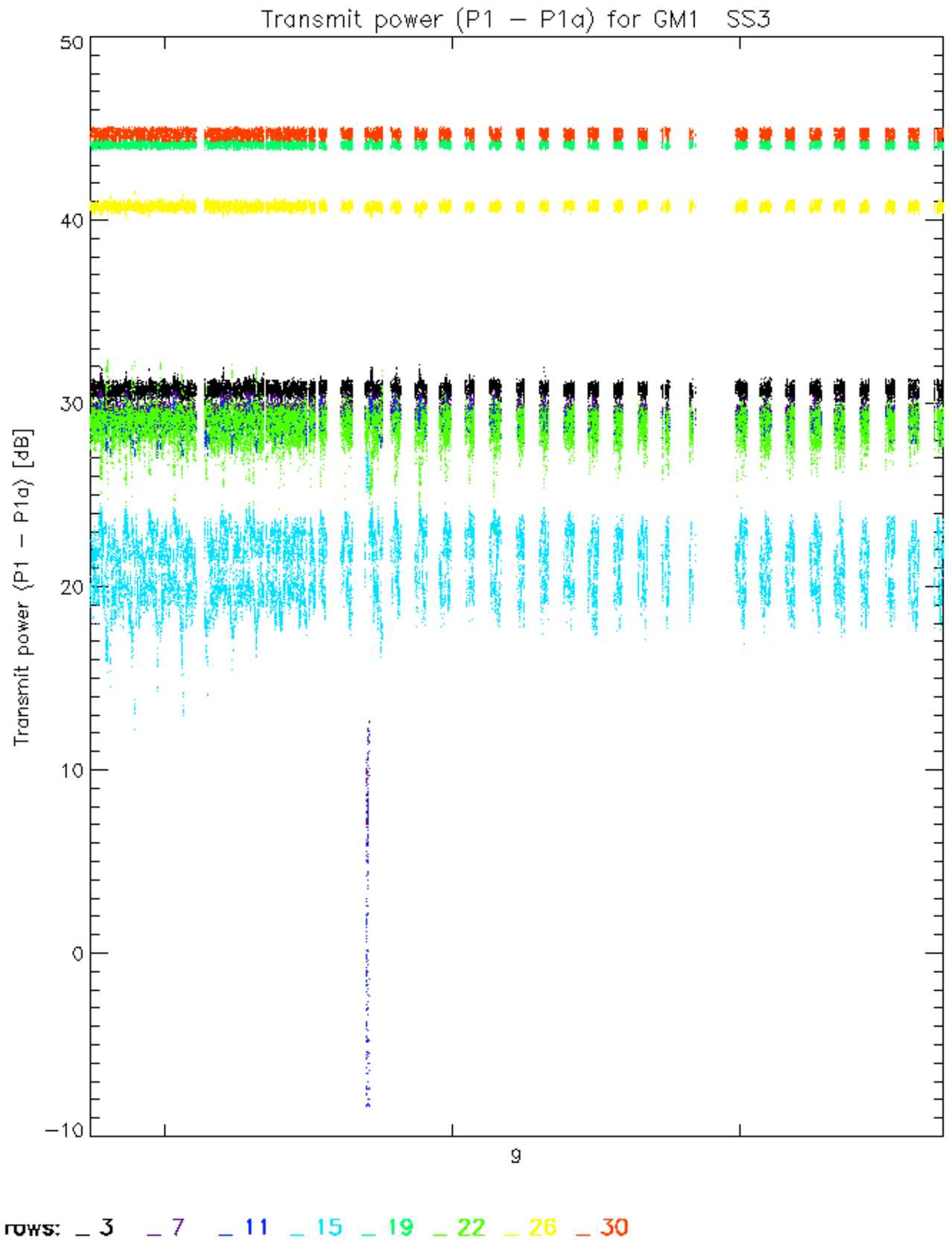
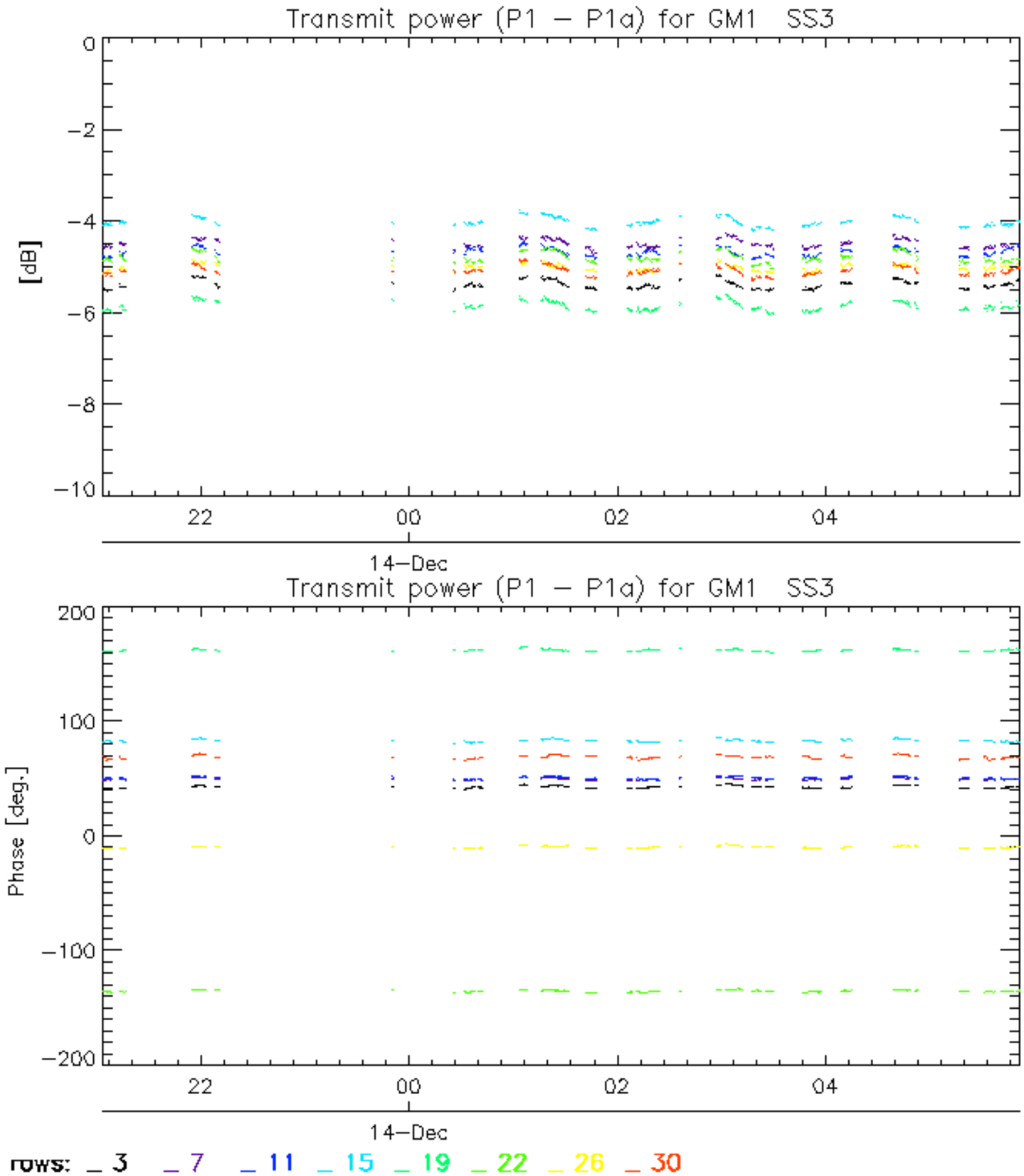
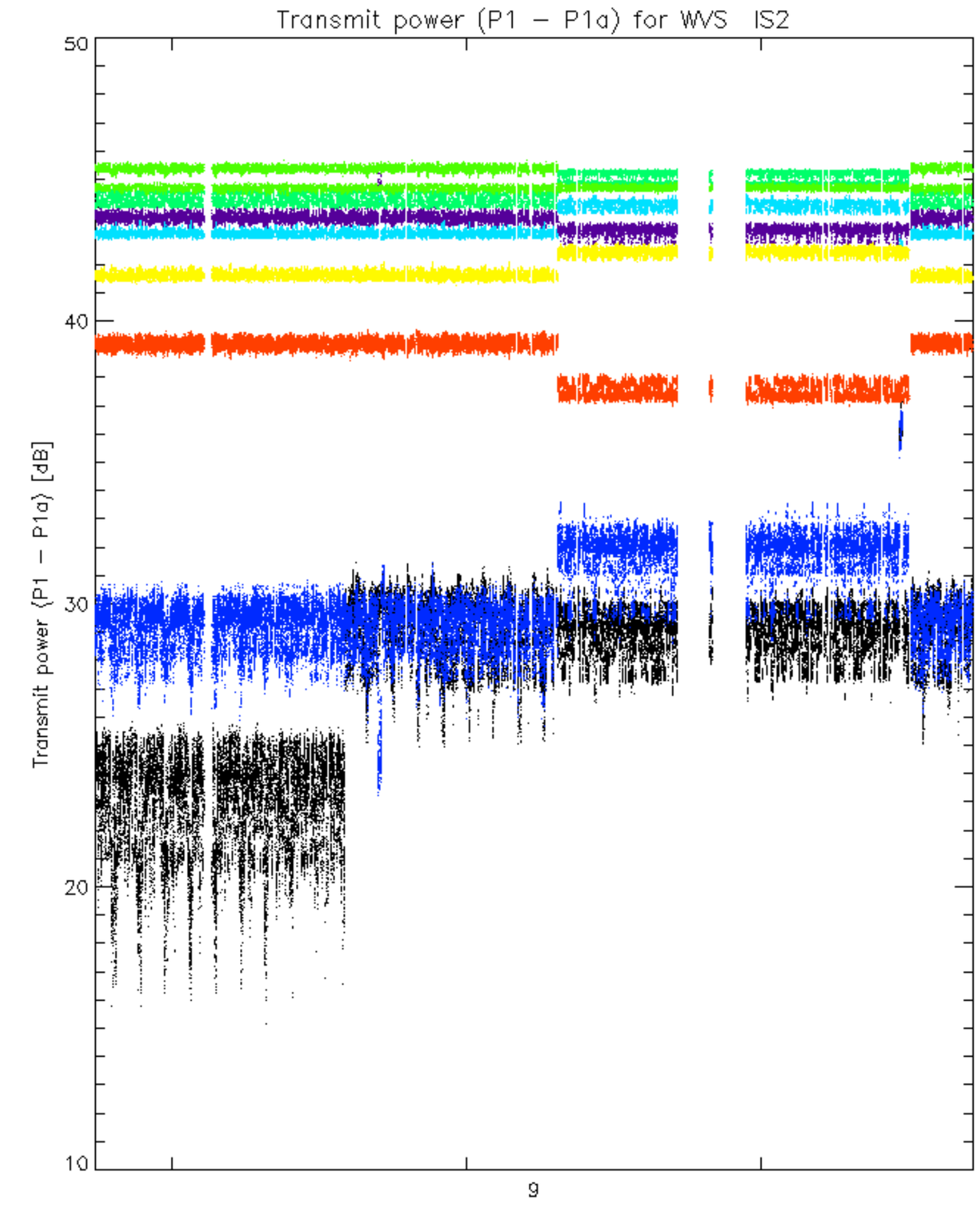
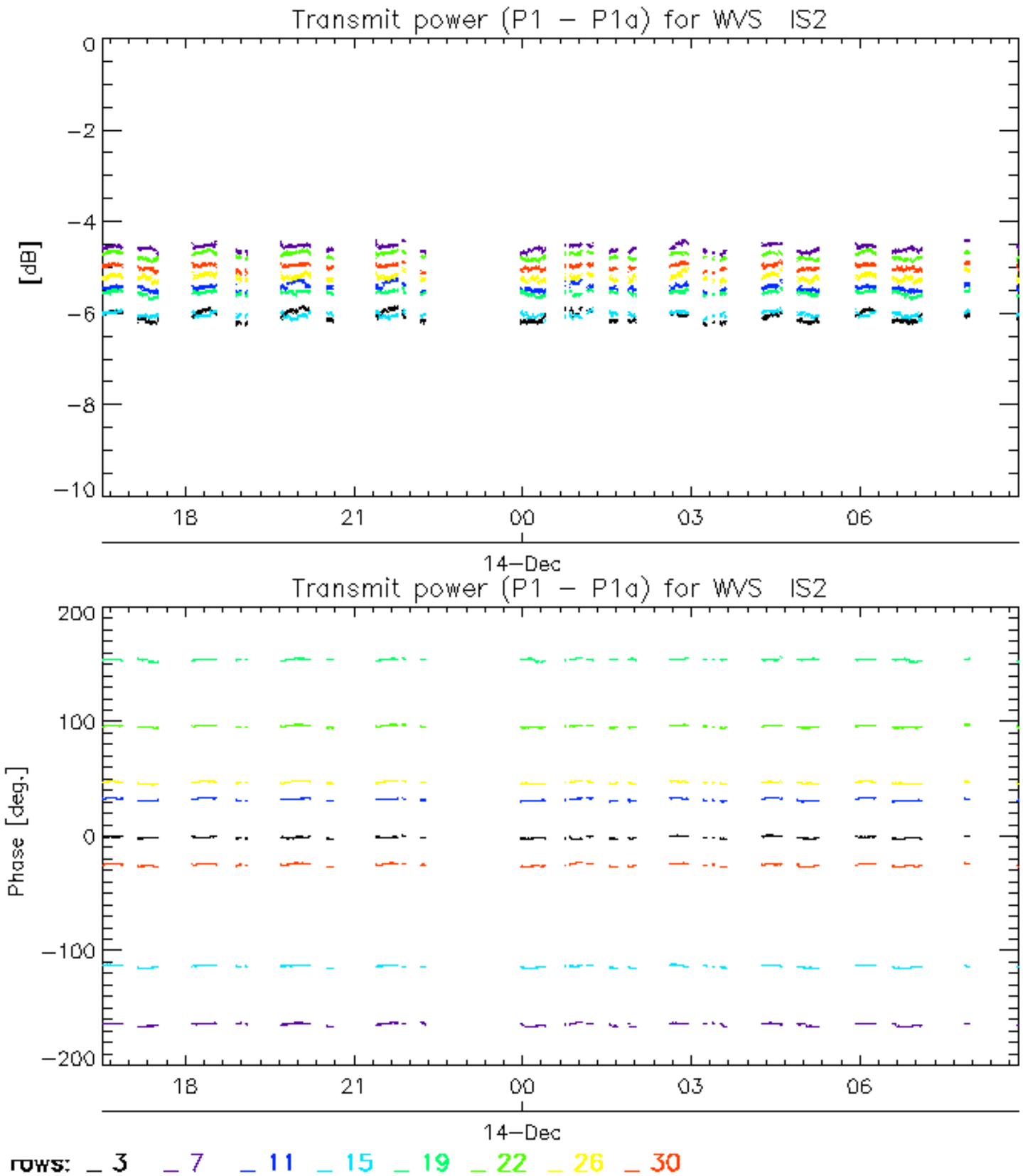

Reference: 2001-02-09 14:08:23 V
Test : 2005-12-12 05:40:47 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32


Reference: 2005-09-29 07:47:20 V
TxPhase
Test : 2005-12-12 05:40:47 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
30
20
10
0
−10
9
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
22
00
02
04
14–Dec
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
22
00
02
04
14–Dec
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for WVS IS2
50
40
30
20
10
Transmit power (P1 – P1a) [dB]
9
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
14–Dec
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
14–Dec
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.