PRELIMINARY REPORT OF 061203

last update on Sun Dec 3 16:41:12 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 2006-12-02 00:00:00 to 2006-12-03 16:41:12

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

ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	37	52	9	4	15
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	37	52	9	4	15
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	37	52	9	4	15
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	37	52	9	4	15

PDHS-E					
AUXILIARY FILE	**WVS**	**GM1**	**IMM**	**APM**	**WSM**
ASA_CON_AXVIEC20061107_090002_20050916_195733_20071231_000000	32	33	43	15	39
ASA_XCA_AXVIEC20060717_154125_20050916_195733_20061231_000000	32	33	43	15	39
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	32	33	43	15	39
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	32	33	43	15	39

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	20061203 023109
H	20061128 050914

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	-3.957815	0.008407	-0.008539
7	P1	-3.150331	0.023927	0.019807
11	P1	-4.127456	0.025369	0.026108
15	P1	-6.298648	0.014794	-0.021764
19	P1	-3.614533	0.006248	-0.044226
22	P1	-4.646353	0.012953	-0.010351
26	P1	-3.948787	0.010472	0.008150
30	P1	-5.867427	0.009555	-0.040069
3	P1	-16.516258	0.236303	-0.076244
7	P1	-17.282562	0.178338	0.007708
11	P1	-17.179417	0.458259	-0.109918
15	P1	-13.062679	0.136700	0.029588
19	P1	-14.920758	0.090496	-0.150263
22	P1	-15.846025	0.521656	0.173518
26	P1	-15.053892	0.195904	0.042525
30	P1	-17.480362	0.476257	-0.027547

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-20.833496	0.091768	0.079938
7	P2	-21.729925	0.093994	0.005520
11	P2	-15.640508	0.102757	0.089297
15	P2	-7.119410	0.107203	0.026677
19	P2	-9.188549	0.104658	0.026441
22	P2	-18.231892	0.096858	0.006269
26	P2	-16.554527	0.111795	-0.029893
30	P2	-19.470205	0.088295	0.030073

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.239234	0.008683	-0.004269
7	P3	-8.239234	0.008683	-0.004269
11	P3	-8.239234	0.008683	-0.004269
15	P3	-8.239234	0.008683	-0.004269
19	P3	-8.239234	0.008683	-0.004269
22	P3	-8.239234	0.008683	-0.004269
26	P3	-8.239189	0.008693	-0.004382
30	P3	-8.239189	0.008693	-0.004382

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	-3.907455	0.024143	0.003064
7	P1	-2.500302	0.115399	0.060727
11	P1	-2.853546	0.026840	0.039980
15	P1	-3.681365	0.040162	0.016258
19	P1	-3.524128	0.016950	-0.019894
22	P1	-5.035473	0.022165	0.052226
26	P1	-6.000309	0.026980	-0.028554
30	P1	-5.319989	0.037537	-0.035334
3	P1	-11.721804	0.085372	-0.021735
7	P1	-10.050985	0.197110	0.017600
11	P1	-10.321939	0.128026	0.010348
15	P1	-10.735180	0.157339	0.117056
19	P1	-15.694618	0.103963	-0.074342
22	P1	-21.469381	1.456698	-0.327431
26	P1	-16.056059	0.321897	0.000511
30	P1	-17.895174	0.390718	0.067430

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-16.459473	0.103685	0.016757
7	P2	-22.225197	0.267867	0.016740
11	P2	-10.932798	0.114546	0.068157
15	P2	-4.968672	0.215851	-0.020225
19	P2	-6.952053	0.245563	0.006715
22	P2	-8.252846	0.172390	0.024274
26	P2	-24.323019	0.181536	0.037778
30	P2	-21.948051	0.146943	0.036792

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.086183	0.003534	-0.004617
7	P3	-8.086210	0.003525	-0.004491
11	P3	-8.086263	0.003532	-0.004366
15	P3	-8.086144	0.003532	-0.004586
19	P3	-8.086204	0.003535	-0.004471
22	P3	-8.086130	0.003532	-0.004740
26	P3	-8.086116	0.003534	-0.004635
30	P3	-8.086201	0.003538	-0.003942

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	0.000547865
	stdev	1.78300e-07
MEAN Q	mean	0.000521123
	stdev	2.20652e-07

5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.136567
	stdev	0.00113056
STDEV Q	mean	0.136932
	stdev	0.00114826

5.3 - Gain imbalance I/Q

6 - Telemetry analysis

Summary of analysis for the last 3 days 2006120[123]
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_GM1_1PNPDK20061201_191311_000006402053_00257_24860_9532.N1	0	13
ASA_WSM_1PNPDE20061201_013231_000001402053_00246_24849_3285.N1	0	39
ASA_WSM_1PNPDE20061201_141605_000000852053_00254_24857_4521.N1	0	29
ASA_WSM_1PNPDE20061202_010155_000000672053_00260_24863_5042.N1	0	35
ASA_WSM_1PNPDE20061202_010155_000001402053_00260_24863_5534.N1	0	35
ASA_WSM_1PNPDE20061202_170159_000000792053_00270_24873_5632.N1	0	11
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6506.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6579.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6802.N1	0	34

ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6989.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_7194.N1	0	34
ASA_APM_1PNPDE20061202_153639_000000892053_00269_24872_5526.N1	0	57

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

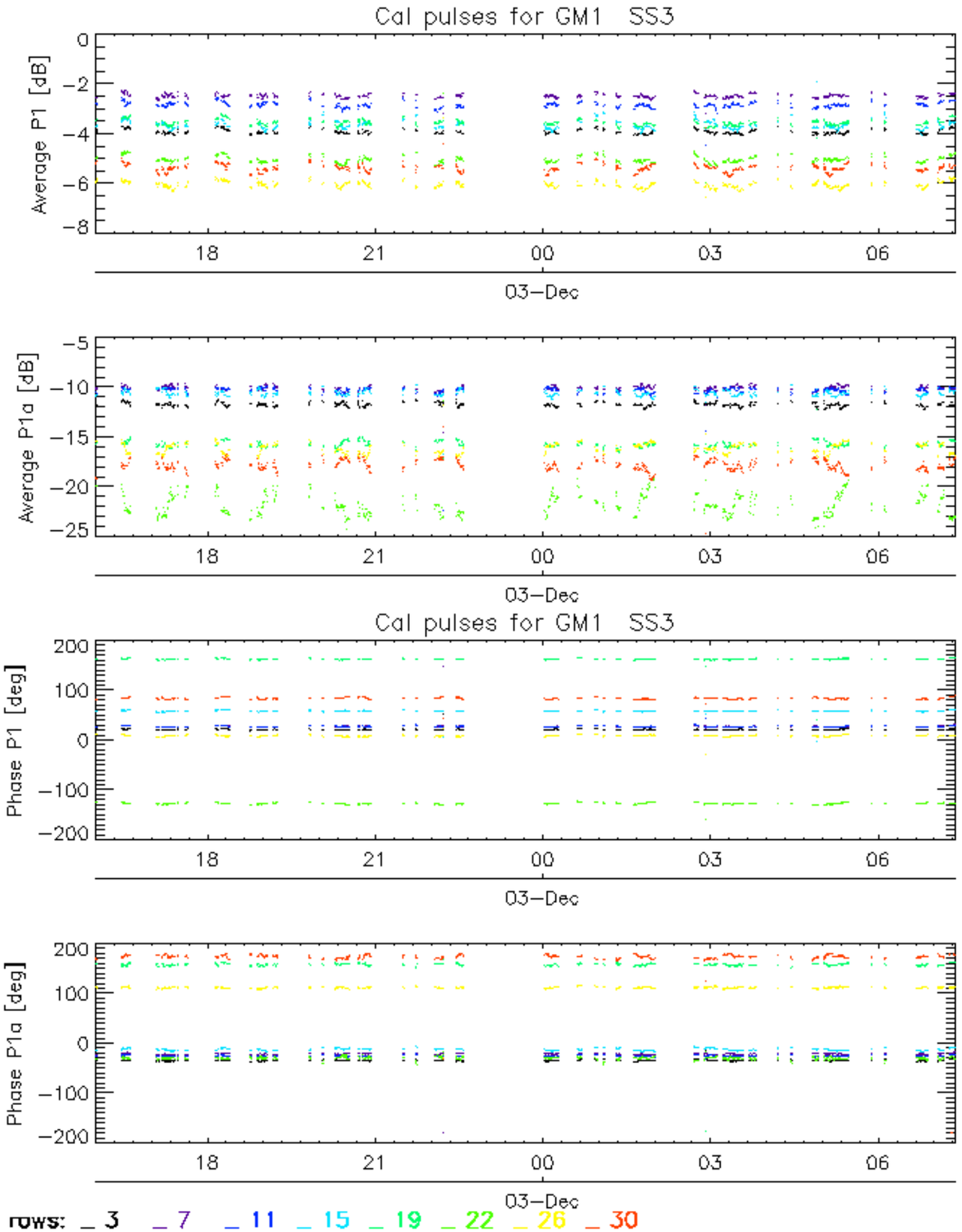
Evolution of unbiased Doppler error (Real - Expected)
☒
Acsending
☒
Descending

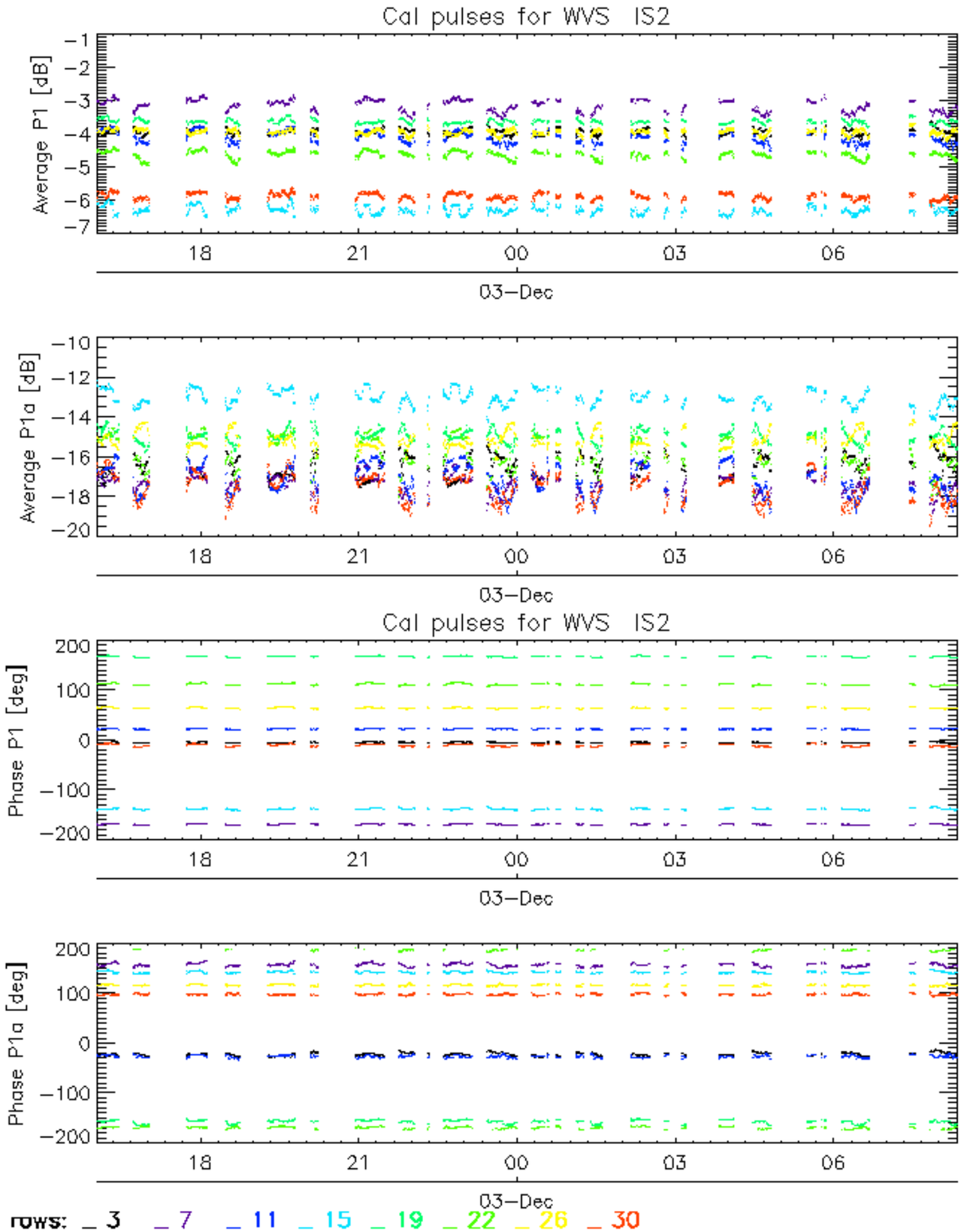
7.5 - Absolute Doppler for GM1

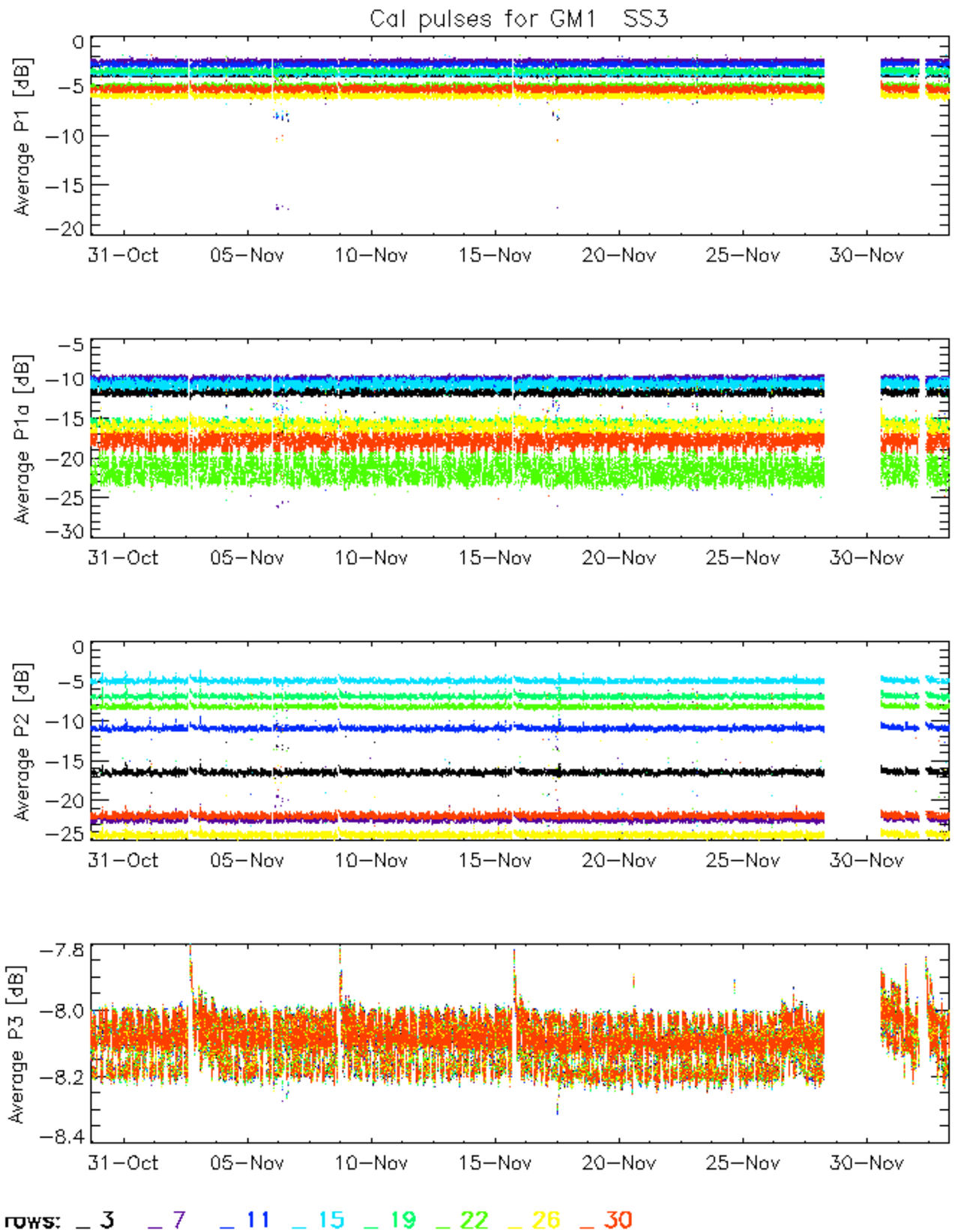
Evolution of Absolute Doppler
☒
Acsending
☒
Descending

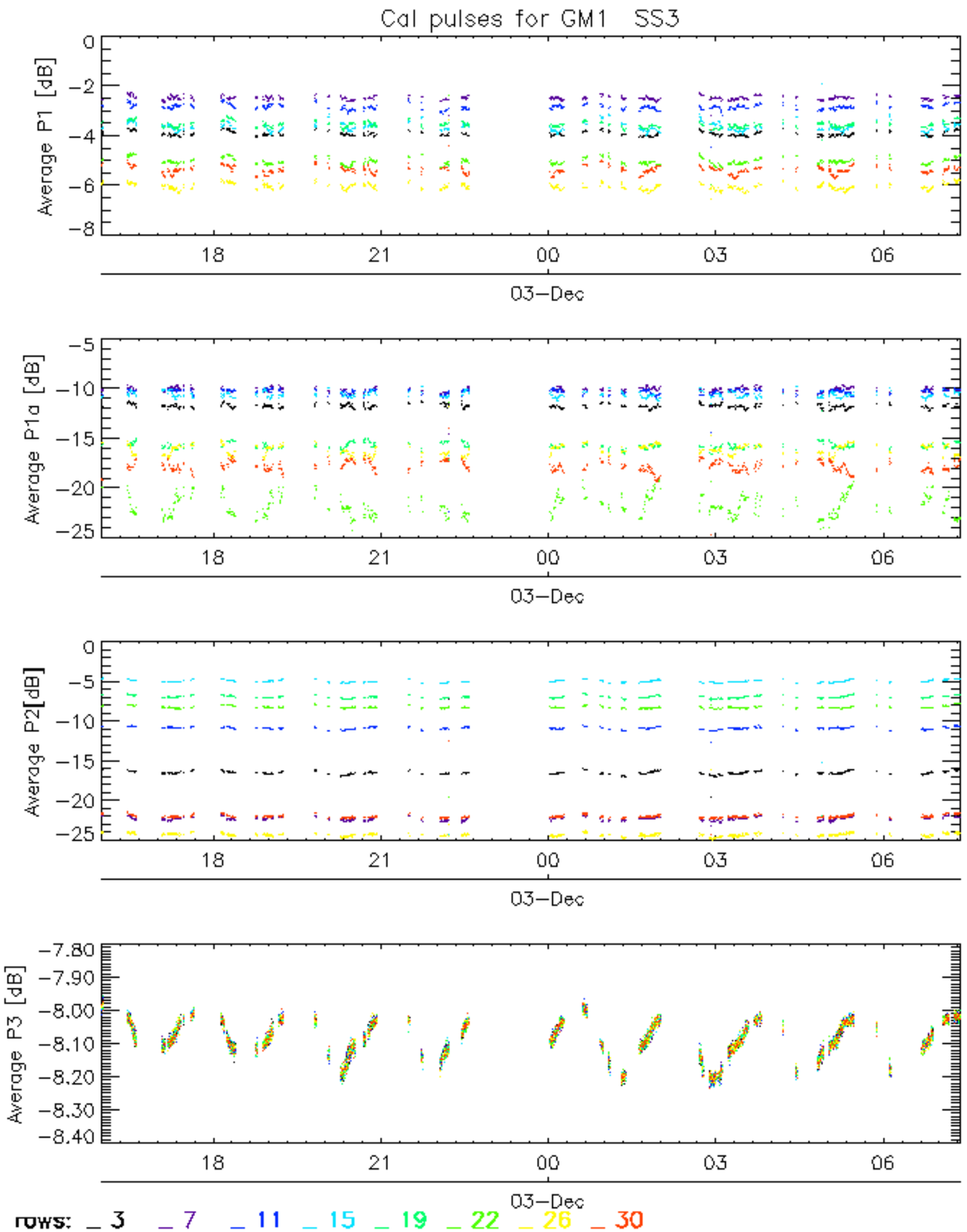
7.6 - Doppler evolution versus ANX for GM1

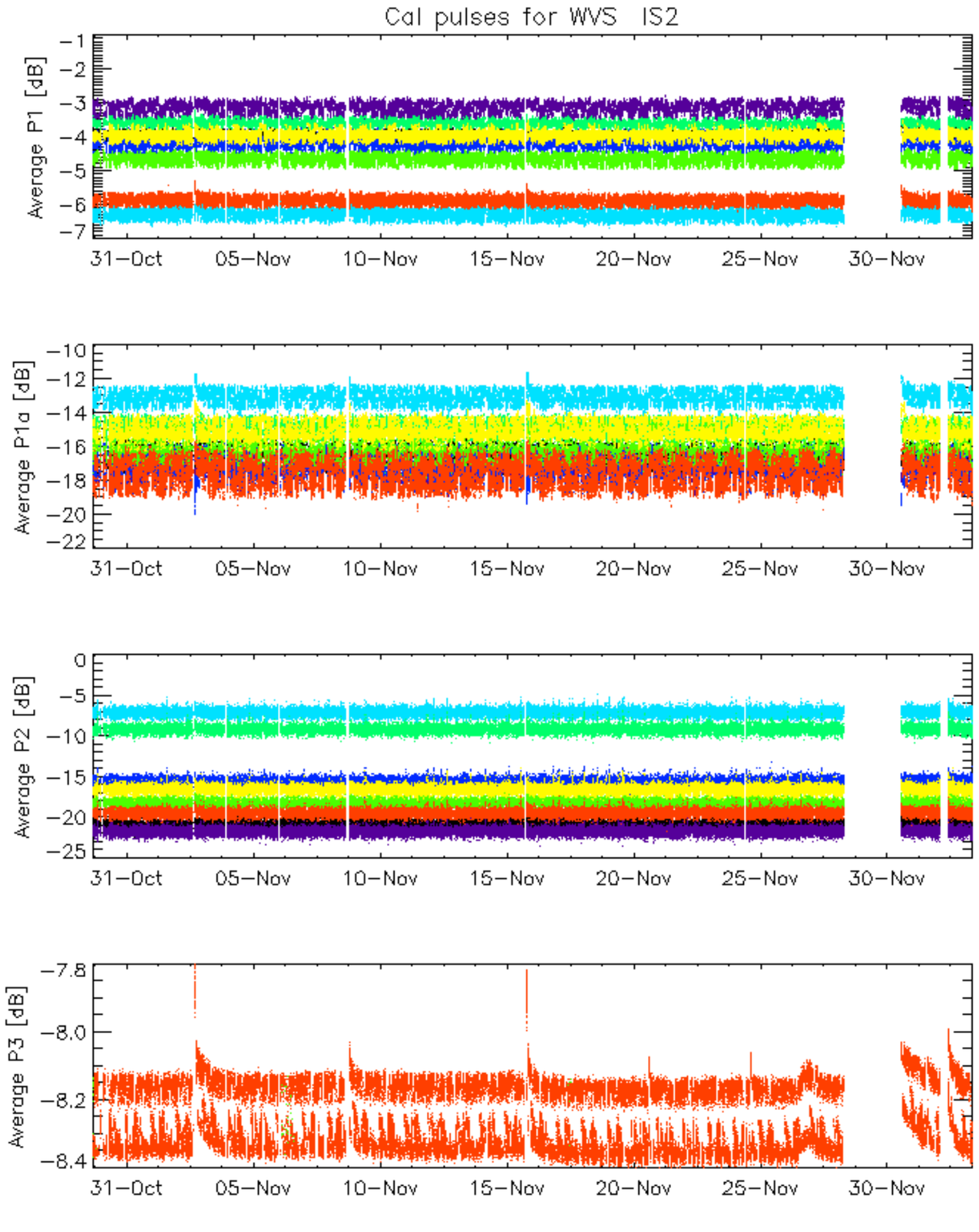
Evolution Doppler error versus ANX
☒

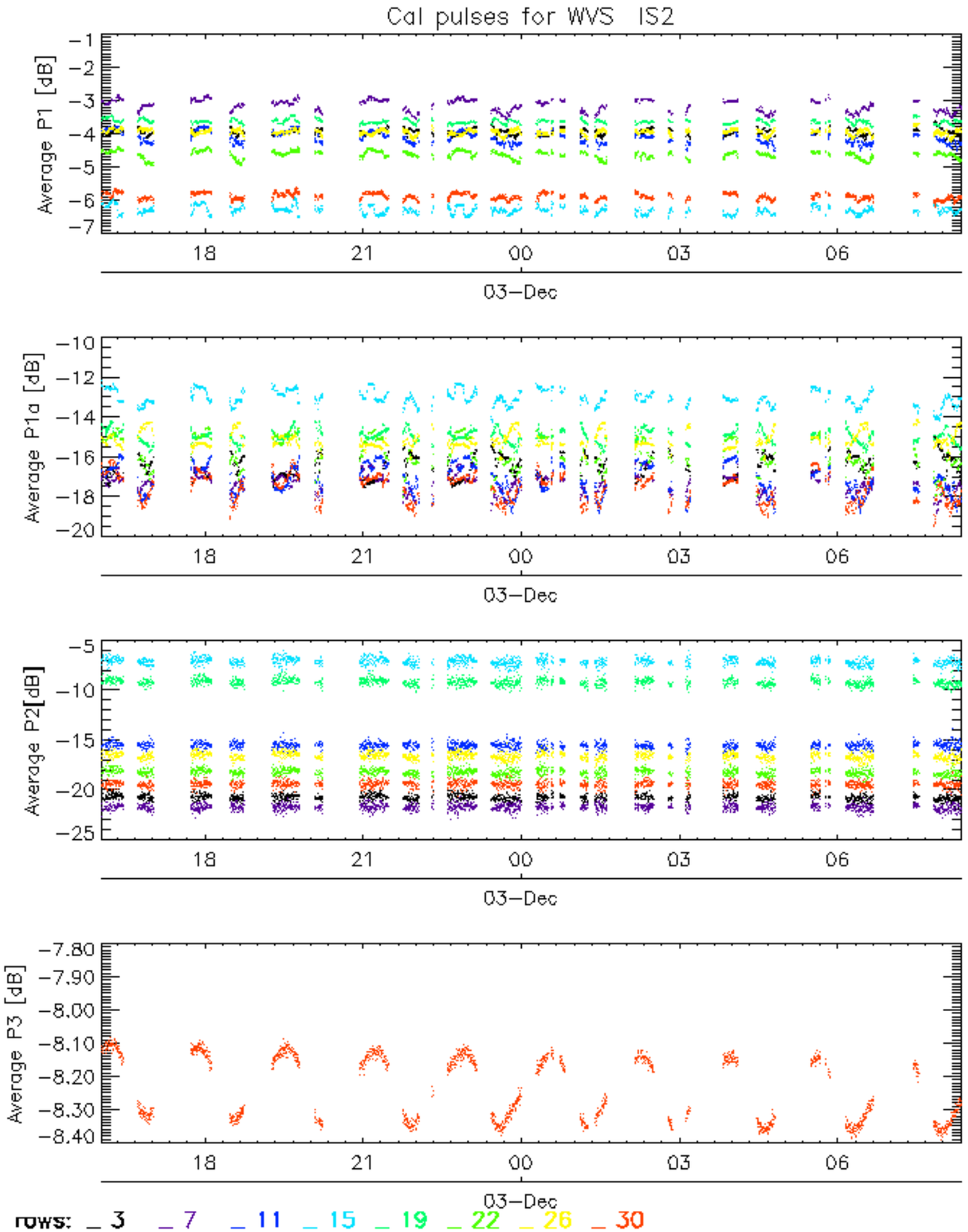

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
18
21
00
03
06
03−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
03−Dec
Cal pulses for GM1 SS3
Phase P1 [deg]
200
100
0
−100
−200
18
21
00
03
06
03−Dec
Phase P1a [deg]
200
100
0
−100
−200
18
21
00
03
06
03−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

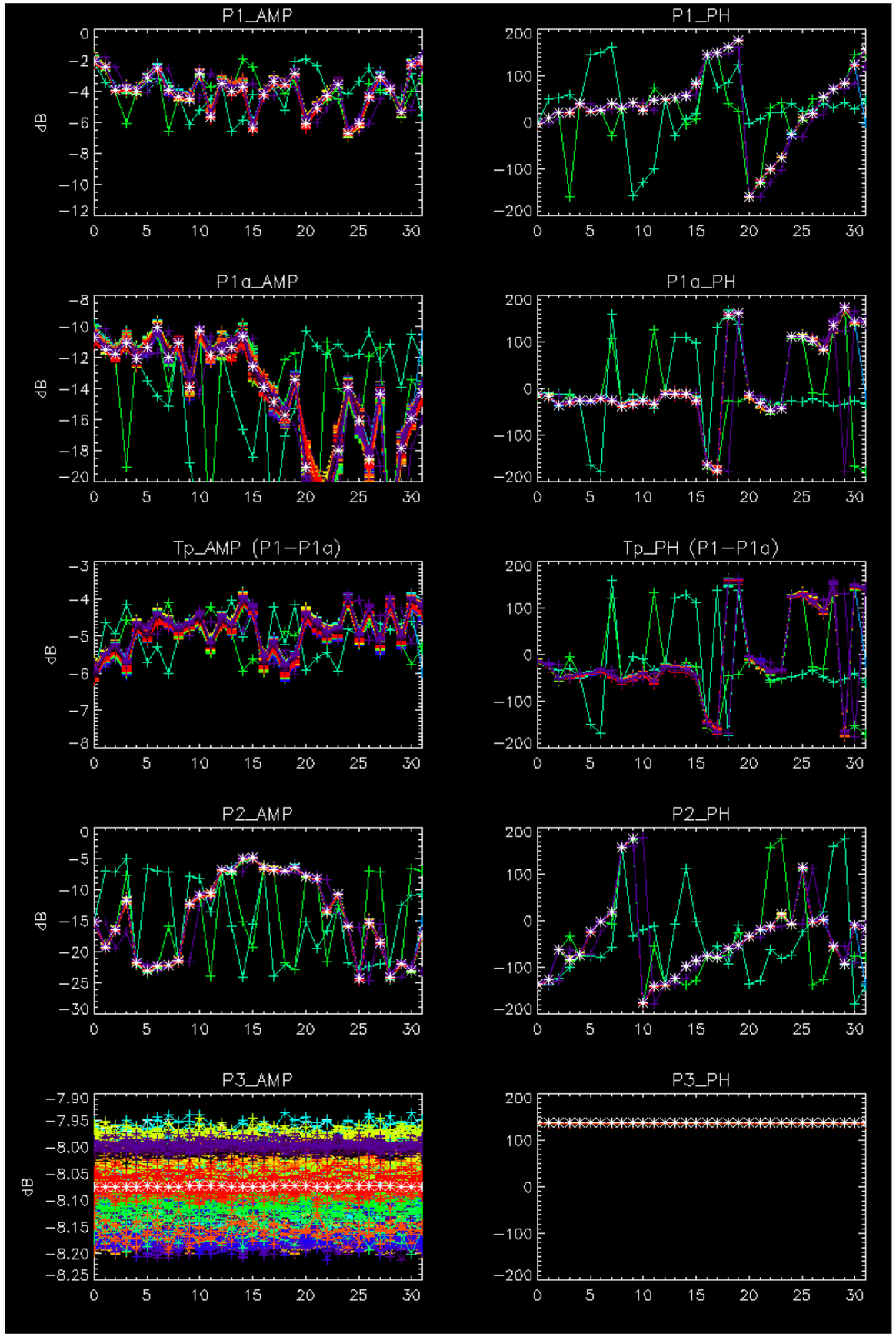

Cal pulses for GM1 SS3
Average P1 [dB]
0
−5
−10
−15
−20
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov
Average P1a [dB]
−5
−10
−15
−20
−25
−30
Average P2 [dB]
0
−5
−10
−15
−20
−25
Average P3 [dB]
−7.8
−8.0
−8.2
−8.4
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

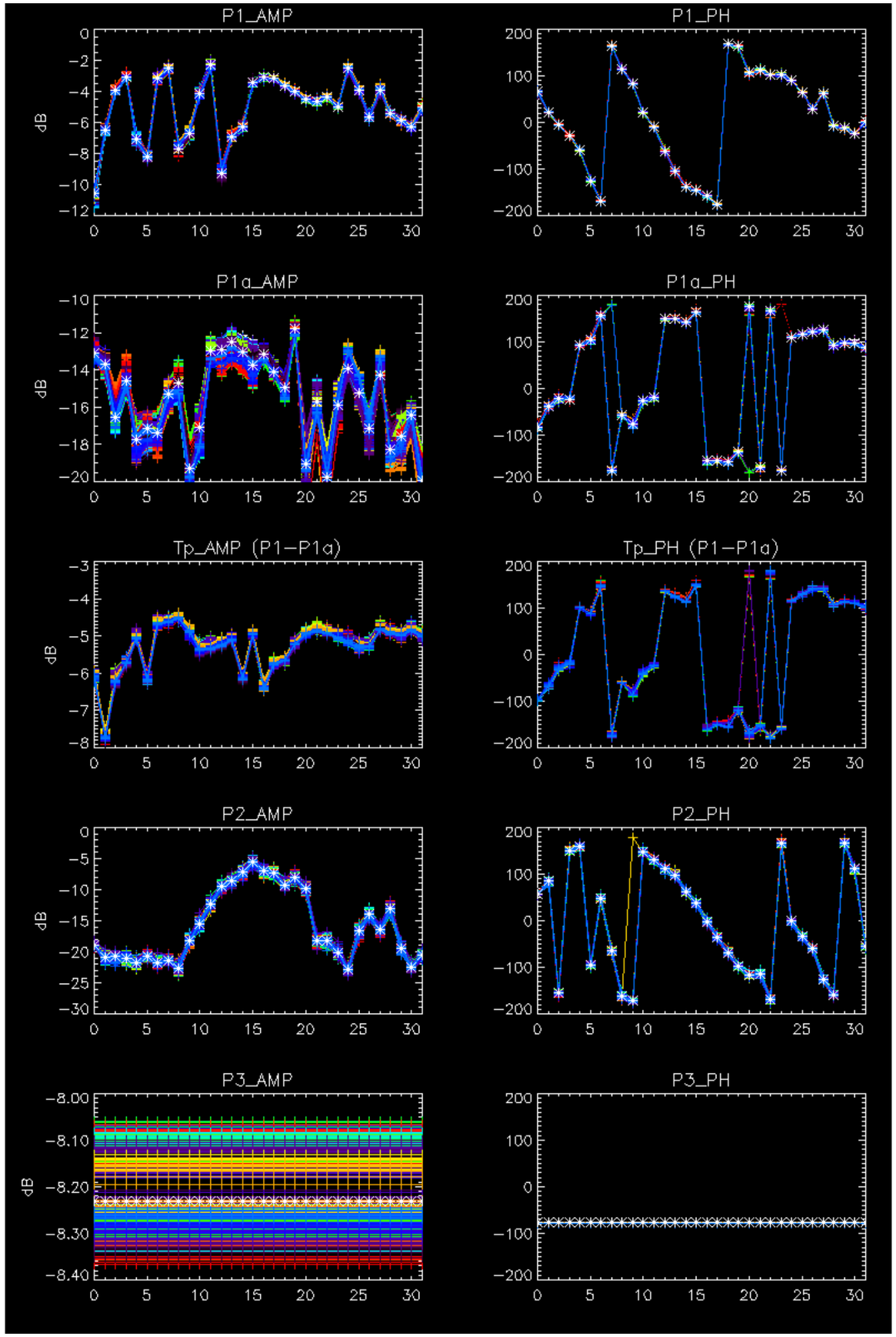

Cal pulses for GM1 SS3
Average P1 [dB]
0
−2
−4
−6
−8
18
21
00
03
06
03−Dec
Average P1a [dB]
−5
−10
−15
−20
−25
18
21
00
03
06
03−Dec
Average P2[dB]
0
−5
−10
−15
−20
−25
18
21
00
03
06
03−Dec
Average P3 [dB]
−7.80
−7.90
−8.00
−8.10
−8.20
−8.30
−8.40
18
21
00
03
06
03−Dec
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30


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

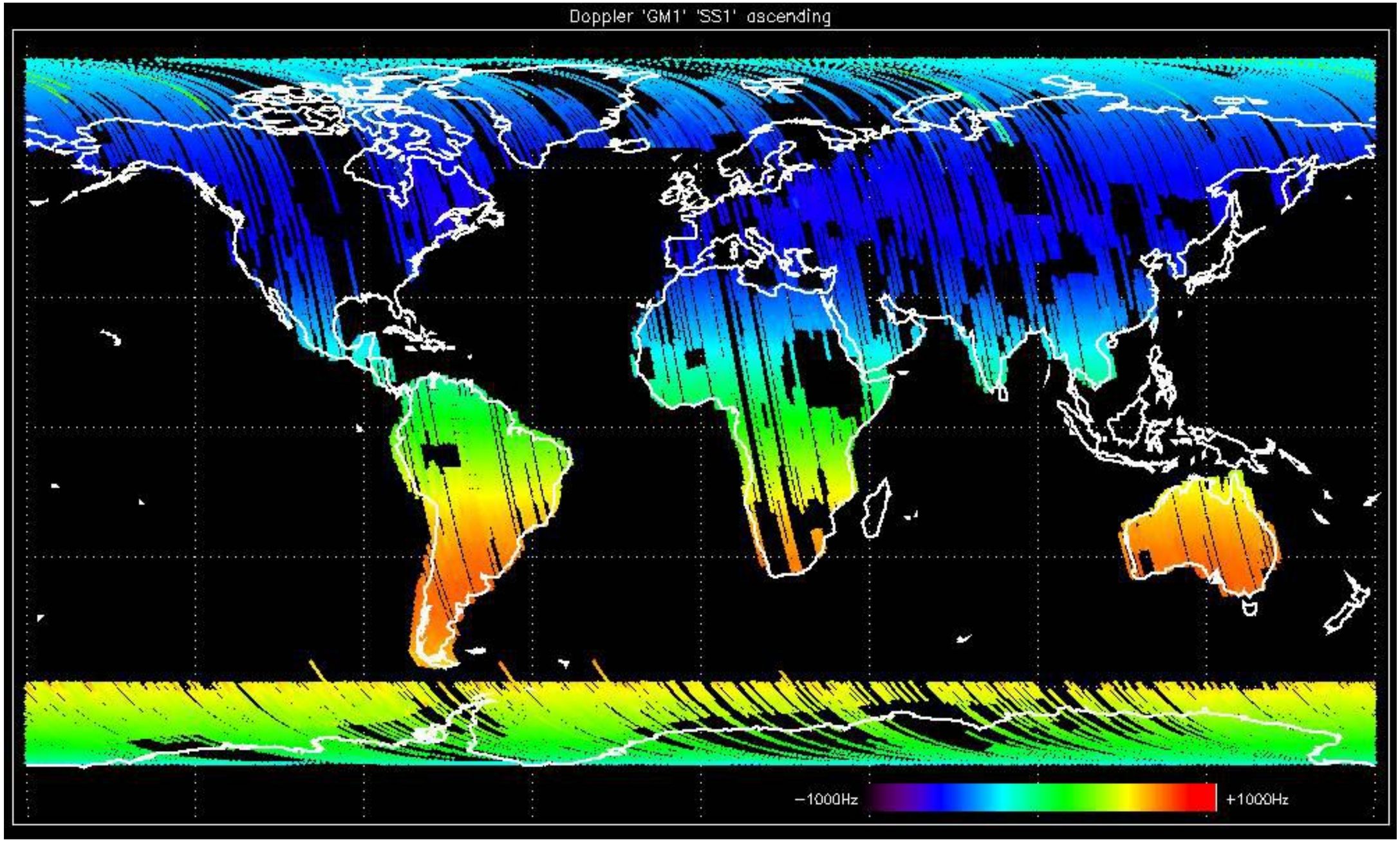
No anomalies observed.

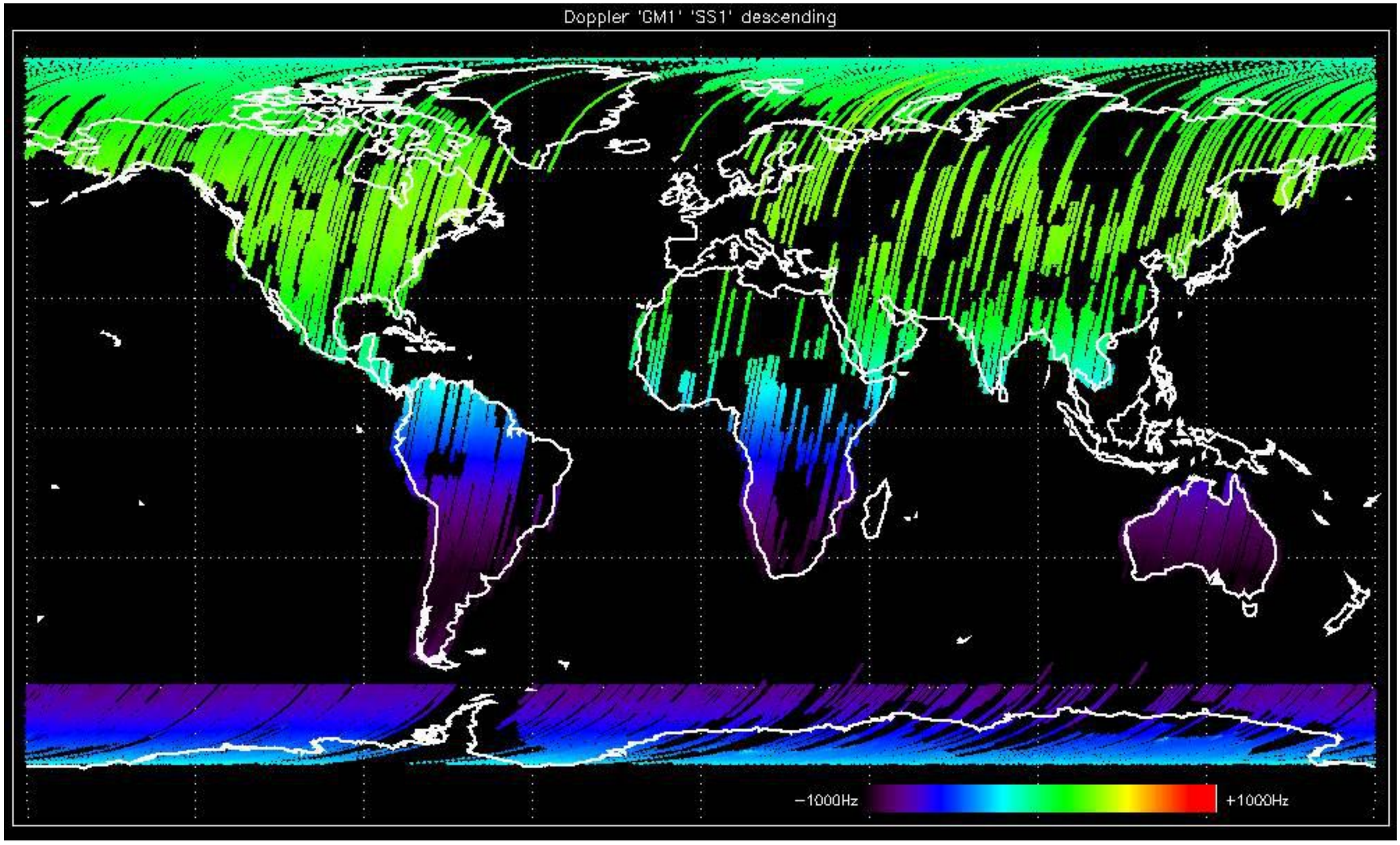

P1_AMP
dB
P1_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH
P3_AMP
dB
P3_PH

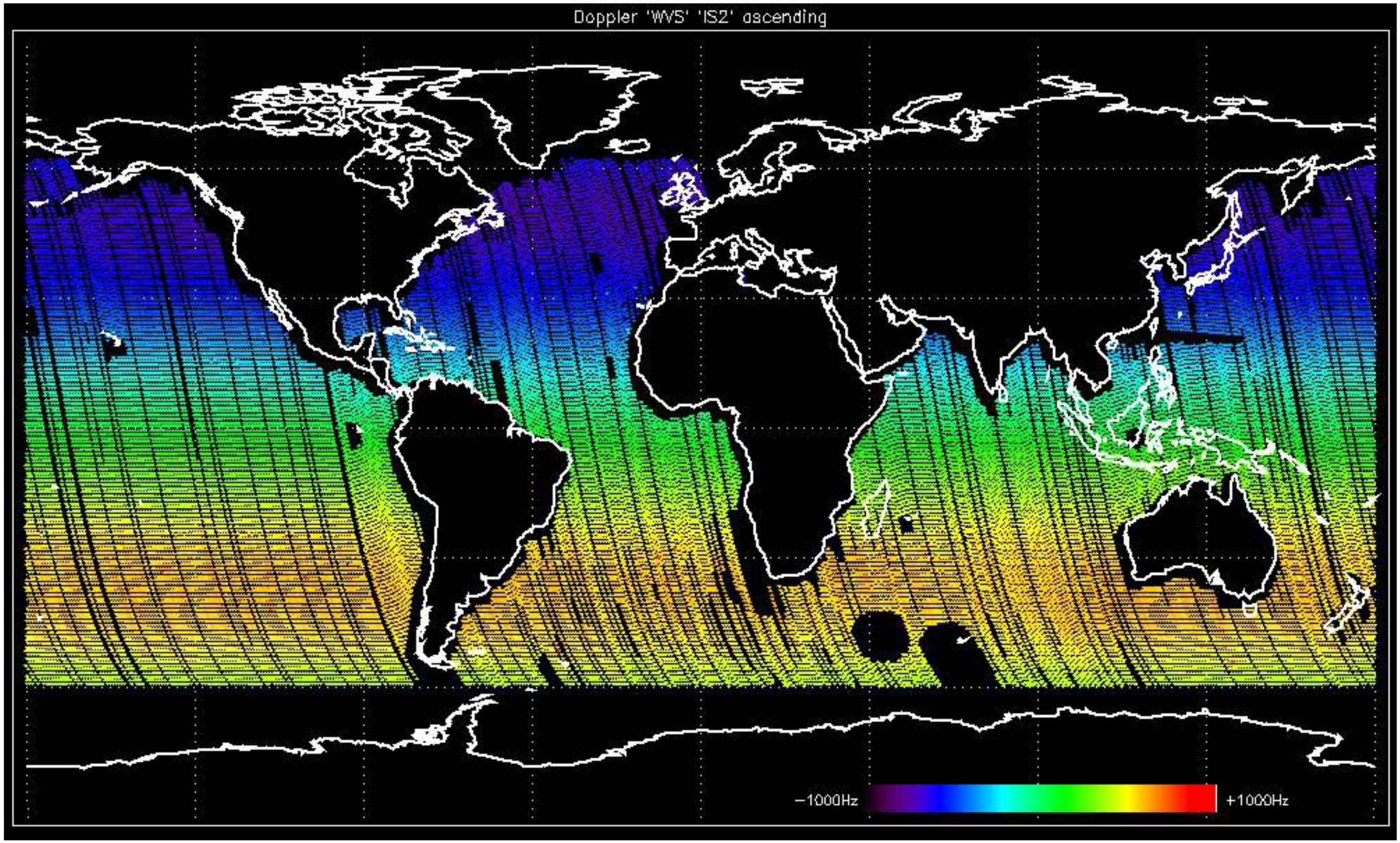

P1_AMP
P1_PH
P1a_AMP
P1a_PH
Tp_AMP (P1−P1a)
Tp_PH (P1−P1a)
P2_AMP
P2_PH
P3_AMP
P3_PH
dB

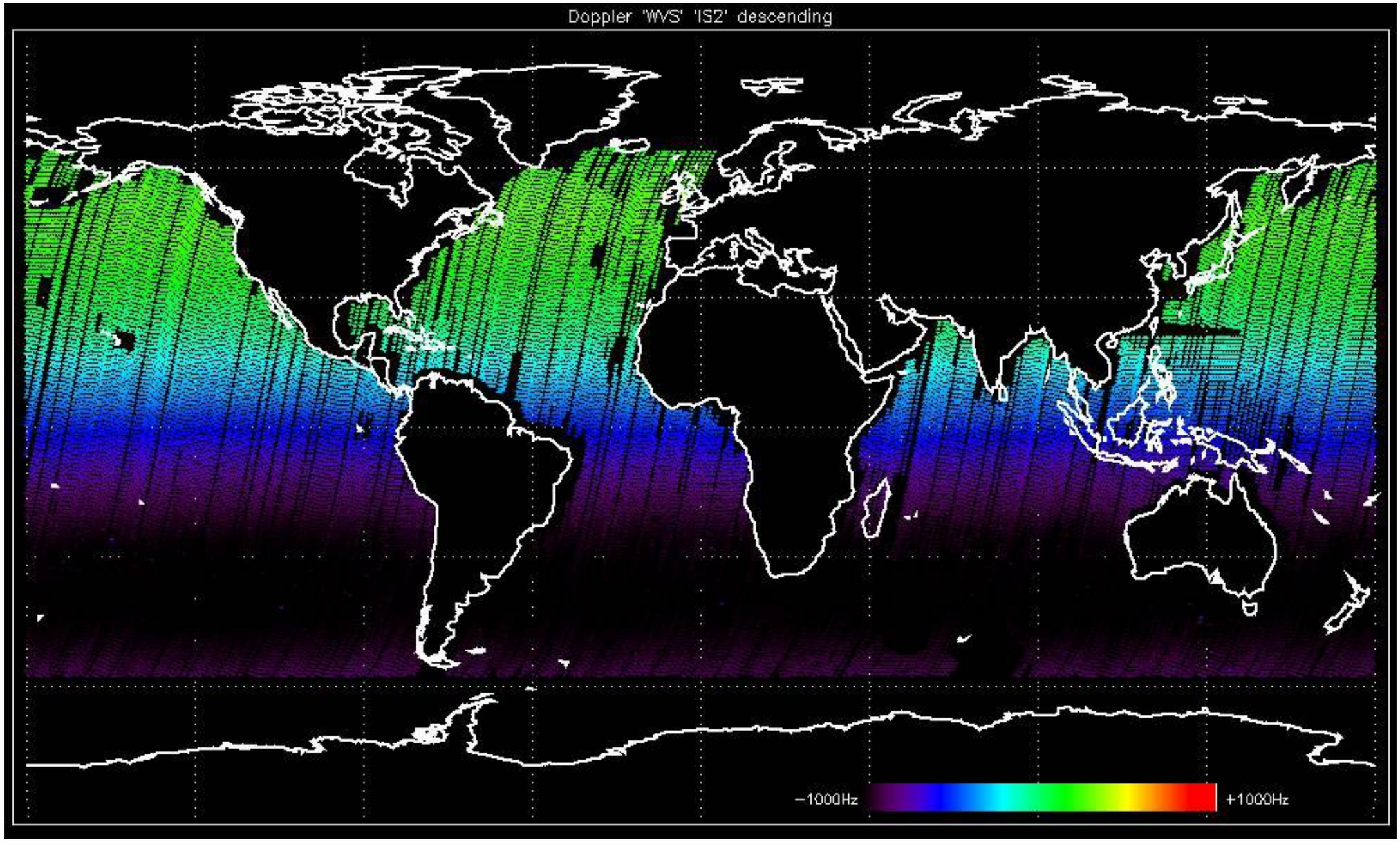
-Stable wave internal calibration pulses gain and phase.
-Stable raw data statistics.
-Nominal Doppler behavior.

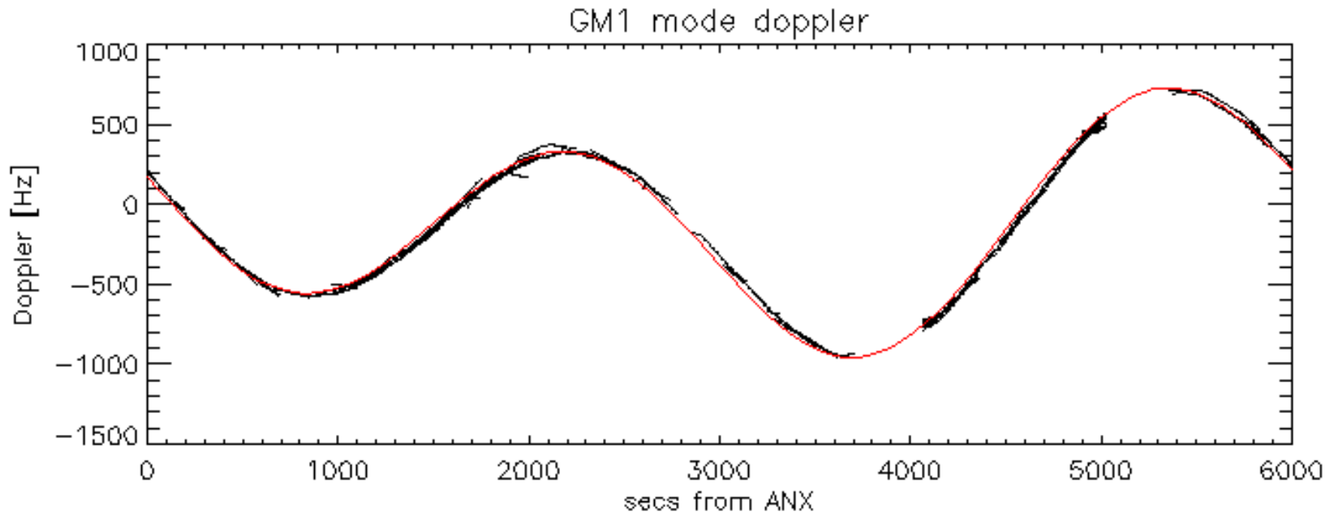
Preliminary report.The data is not yet controled

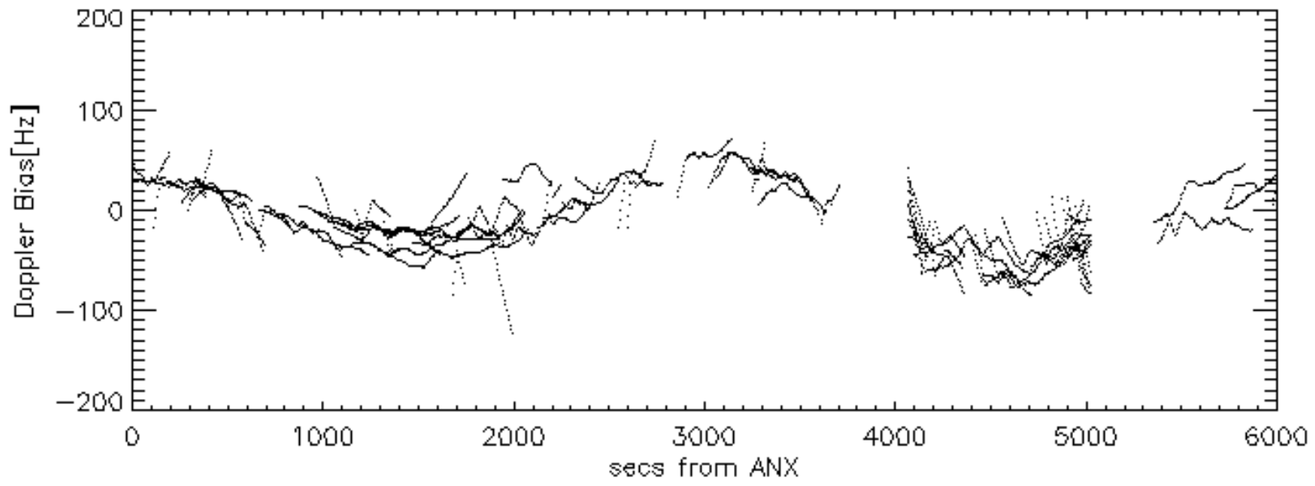

Doppler 'GM1' 'SS1' ascending
−1000Hz
+1000Hz

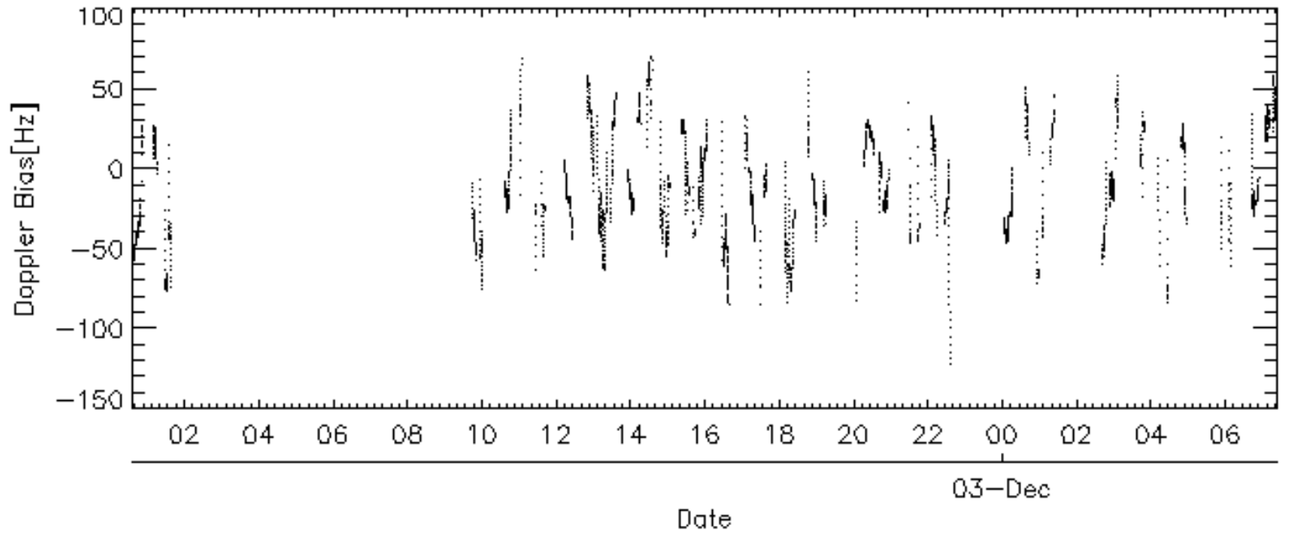

Doppler 'GM1' 'SS1' descending
−1000Hz
+1000Hz

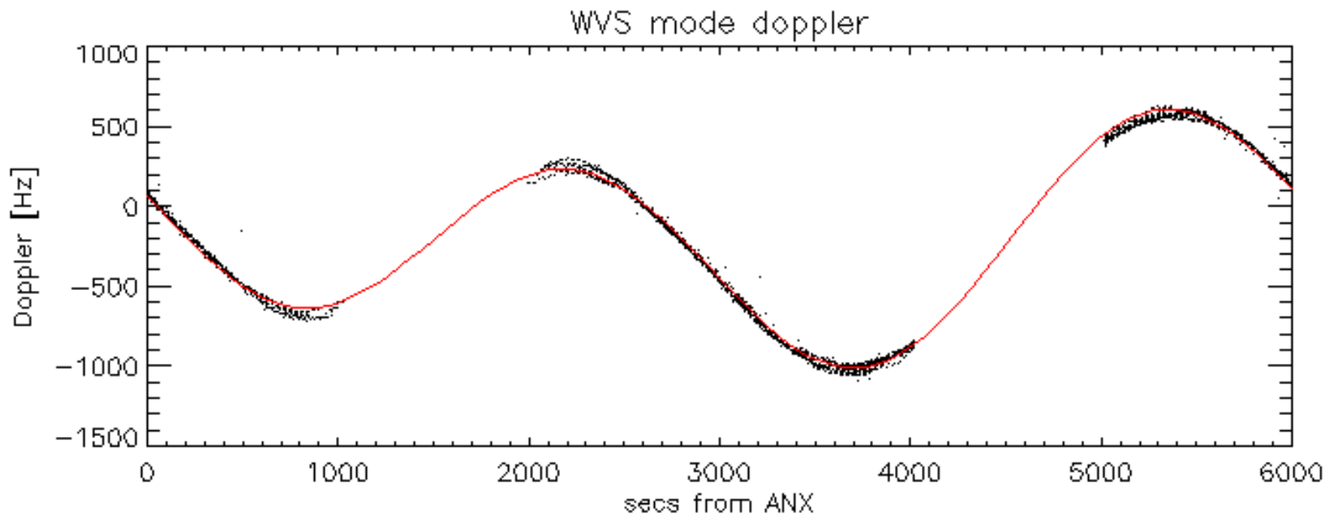

Doppler 'WVS' 'IS2' ascending
−1000Hz
+1000Hz

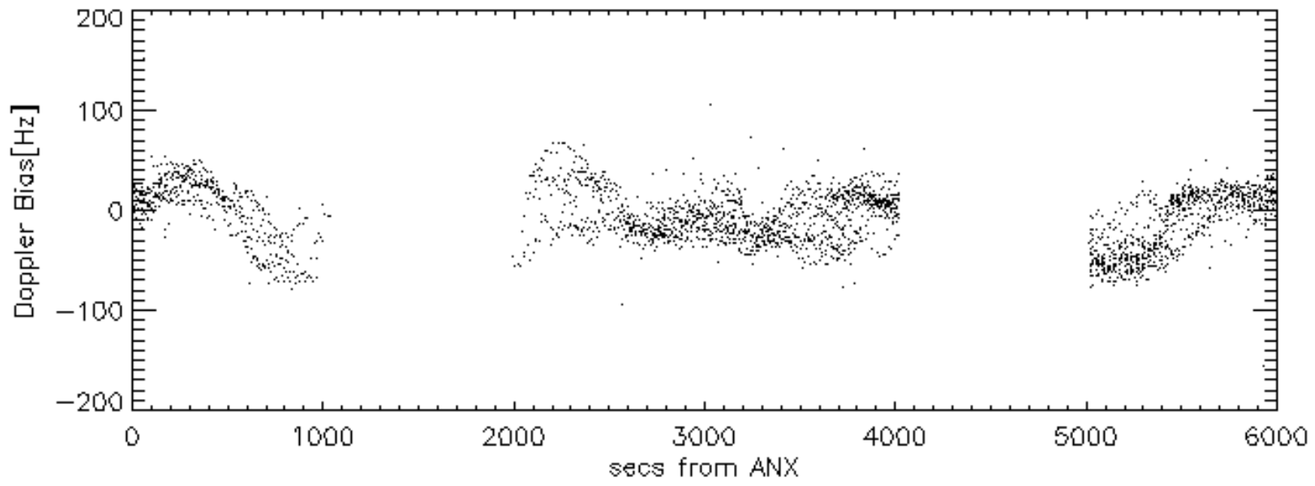

Doppler 'WVS' 'IS2' descending
−1000Hz
+1000Hz

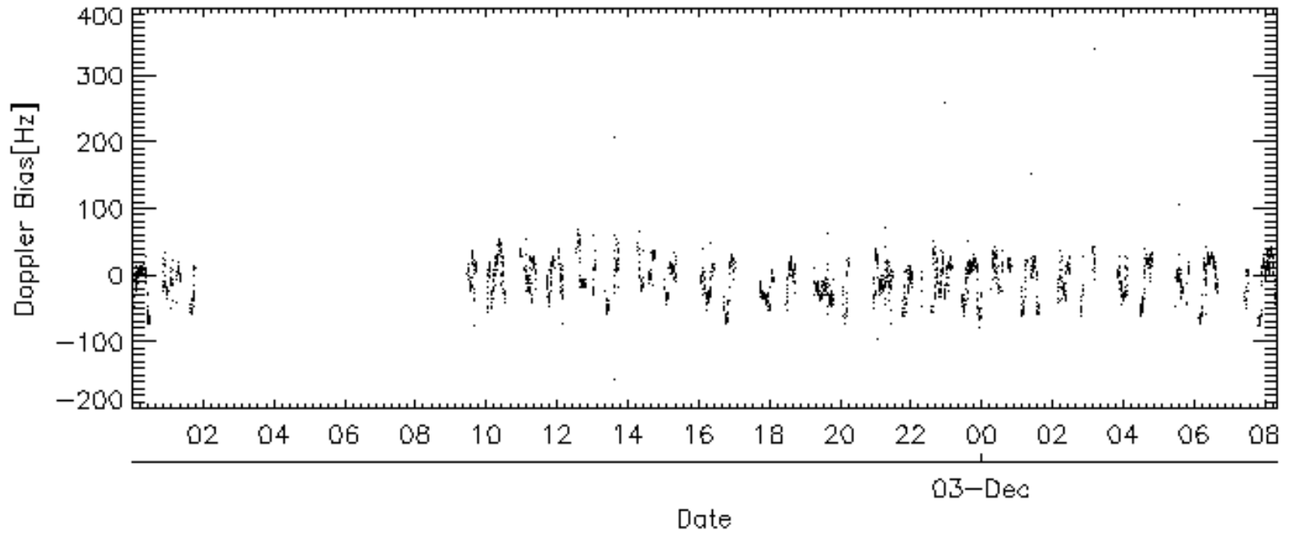

GM1 mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

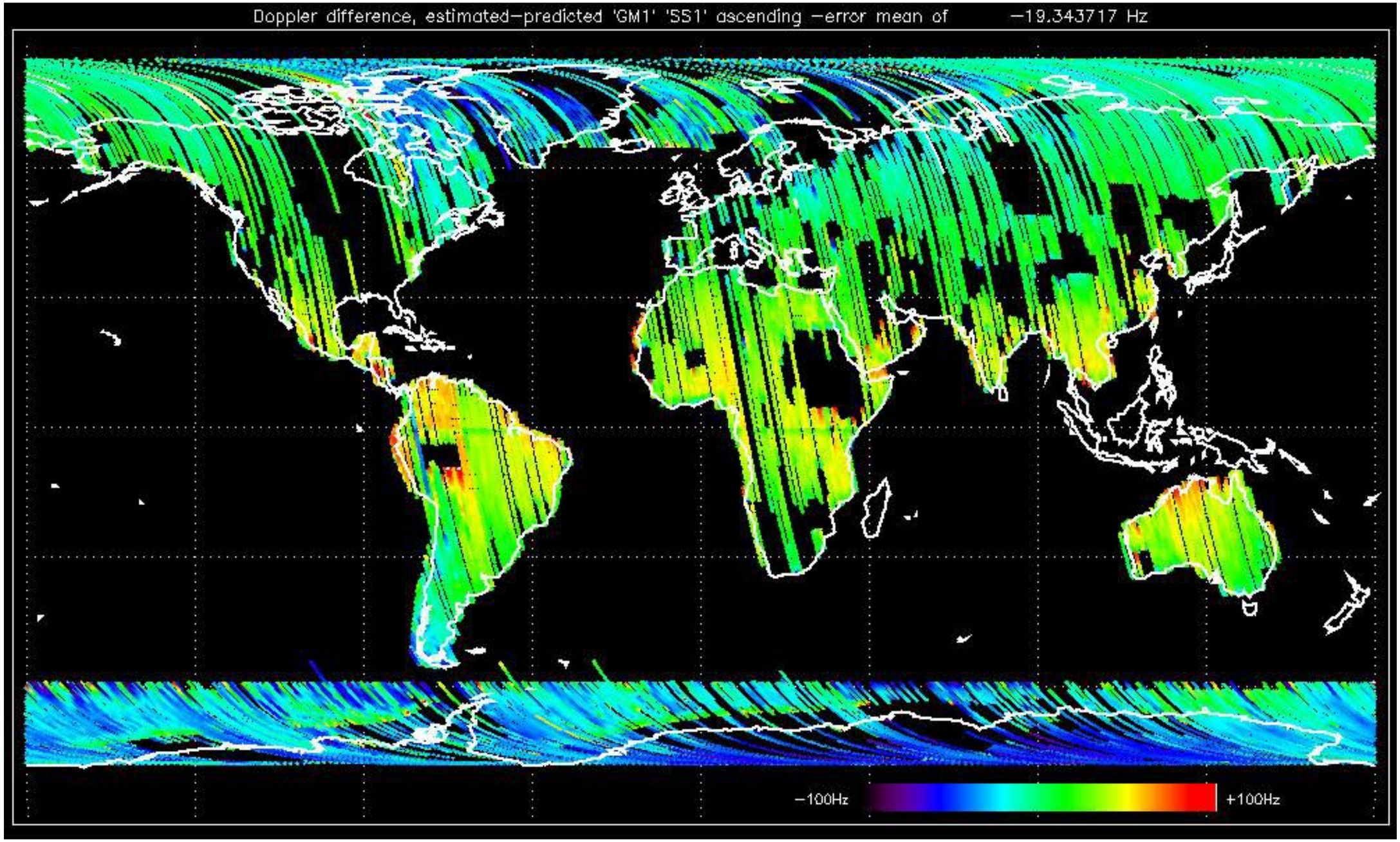

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

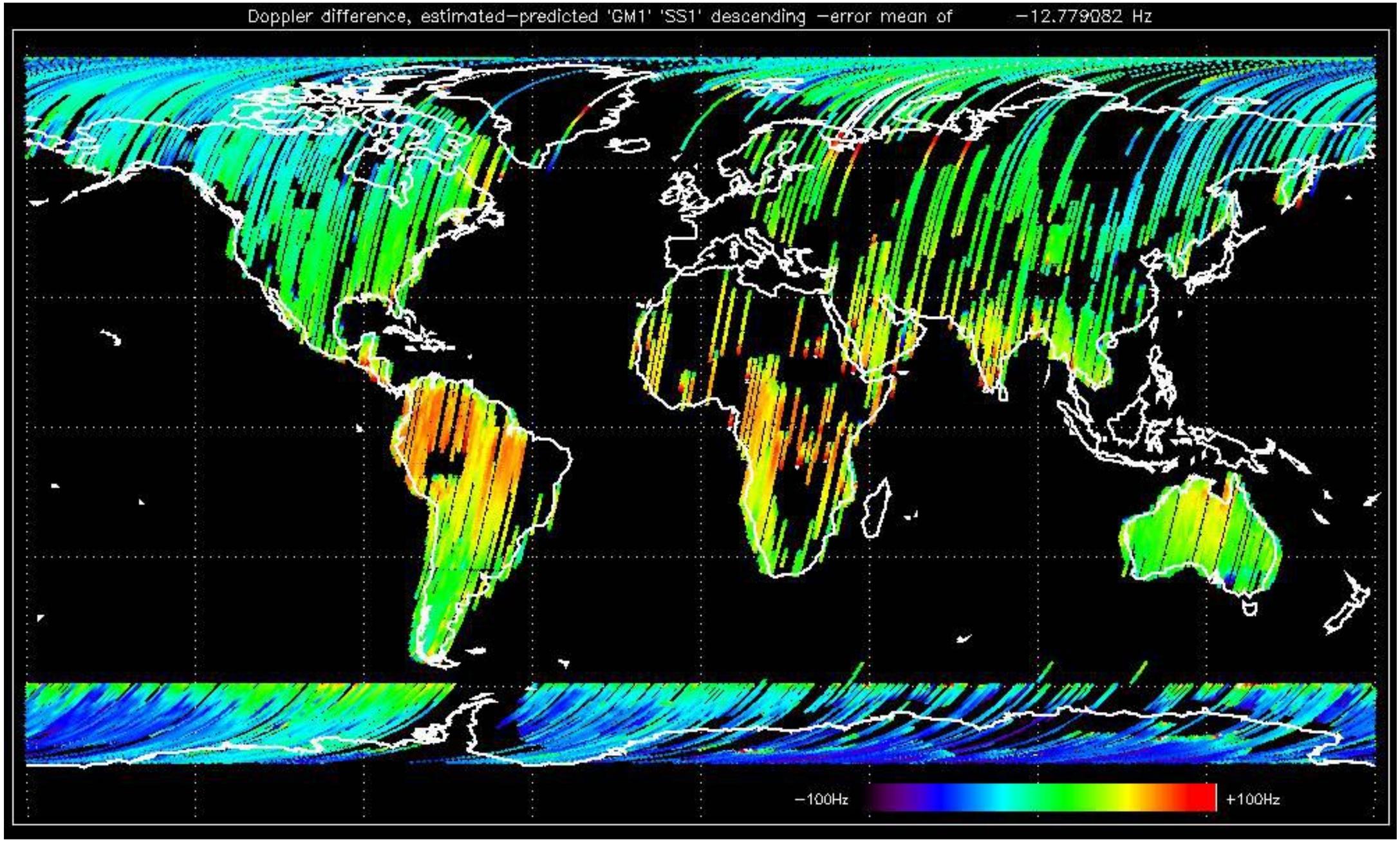

Doppler Bias[Hz]
100
50
0
−50
−100
−150
02
04
06
08
10
12
14
16
18
20
22
00
02
04
06
03−Dec
Date

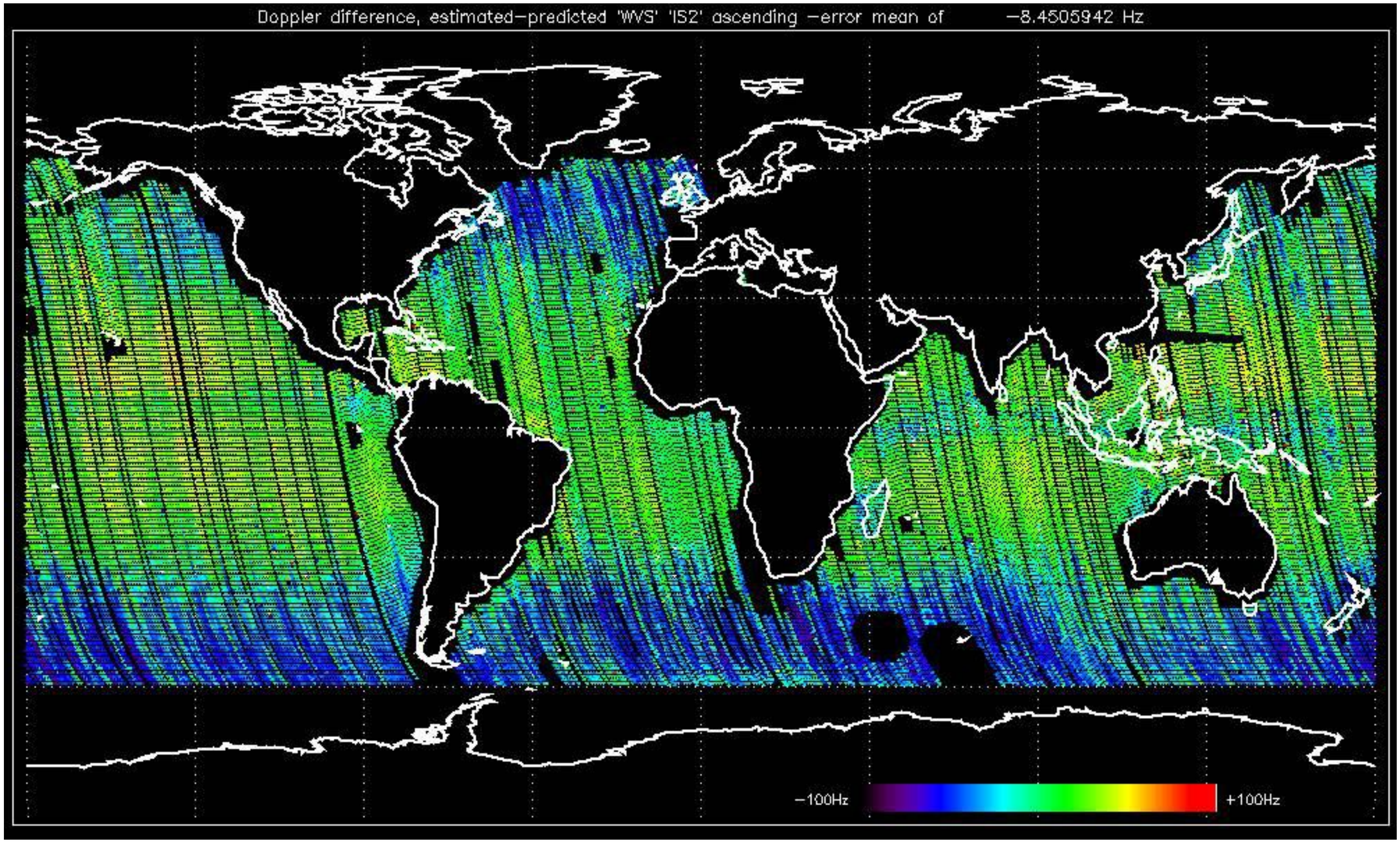

WVS mode doppler
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

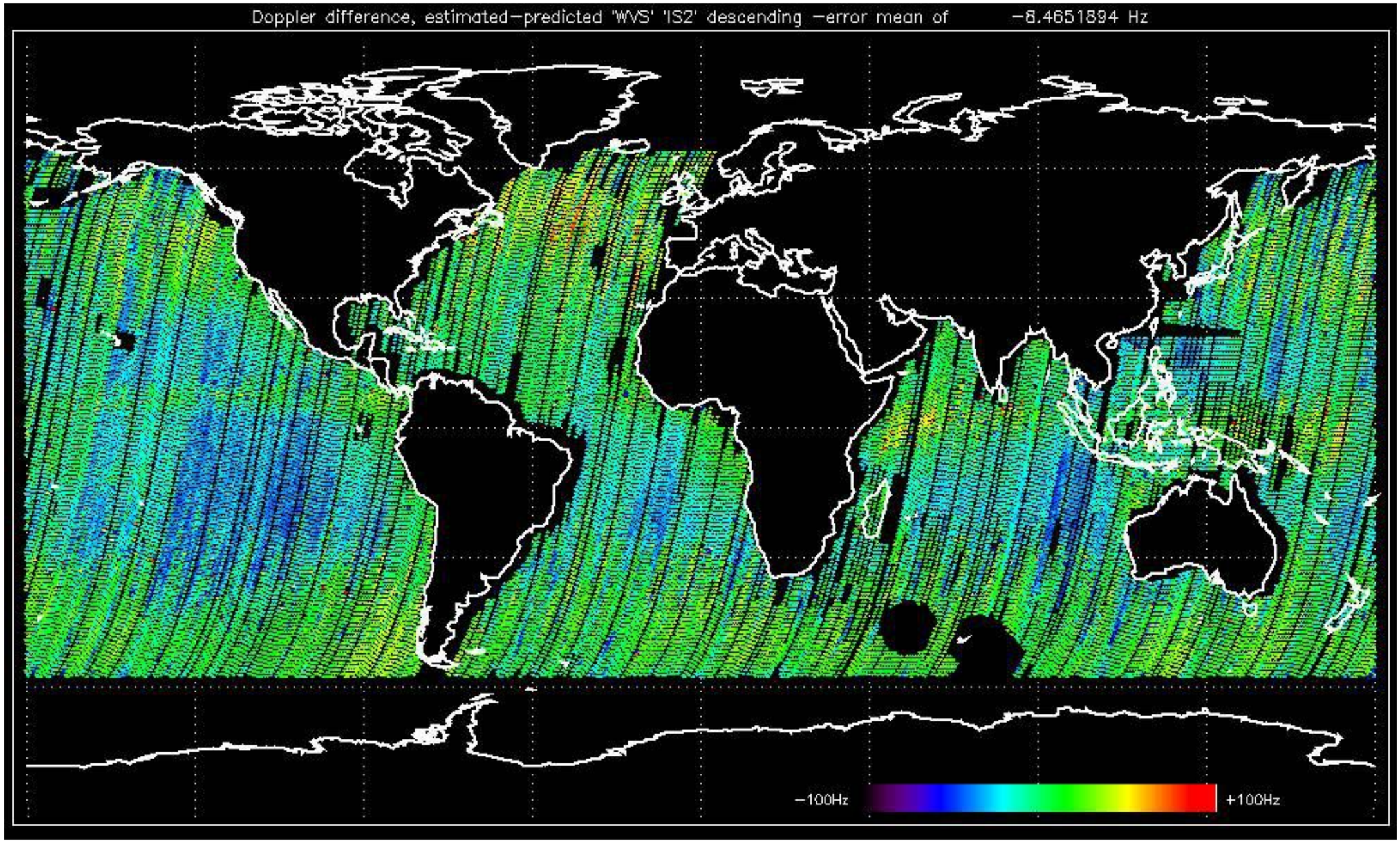

Doppler Bias[Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX


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


Doppler difference, estimated−predicted 'GM1' 'SS1' ascending −error mean of −19.343717 Hz
−100Hz
+100Hz

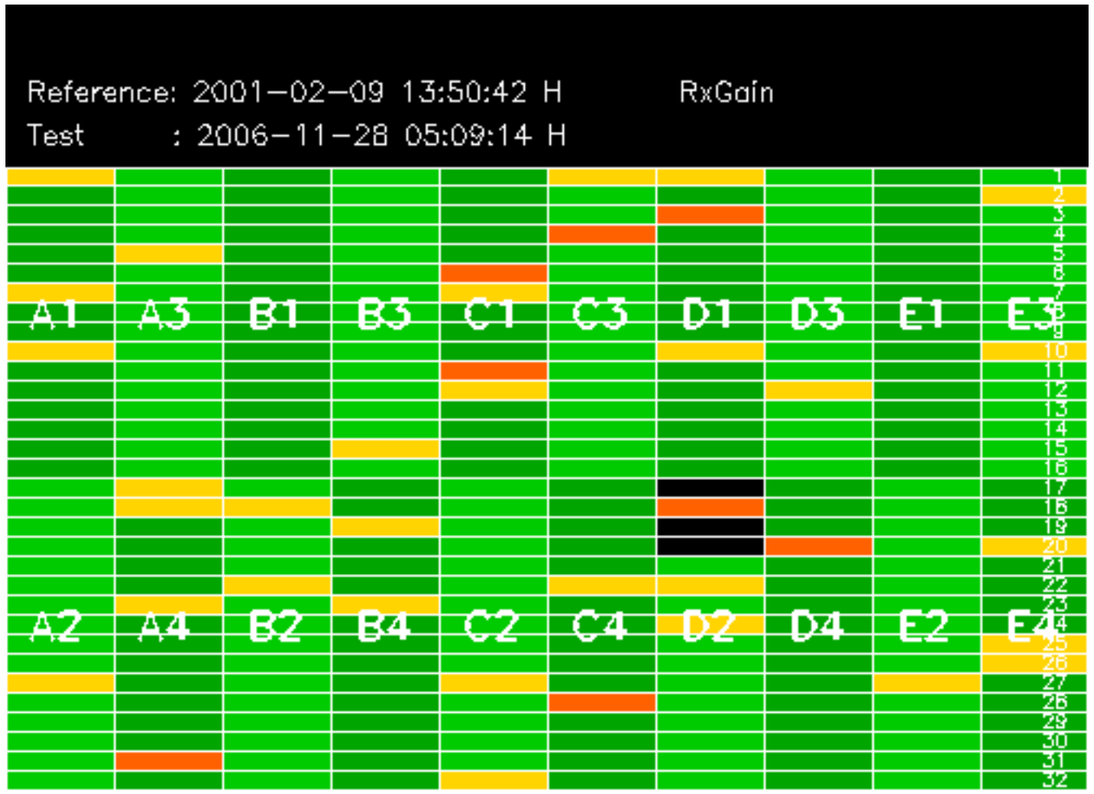

Doppler difference, estimated−predicted 'GM1' 'SS1' descending −error mean of −12.779082 Hz
−100Hz
+100Hz

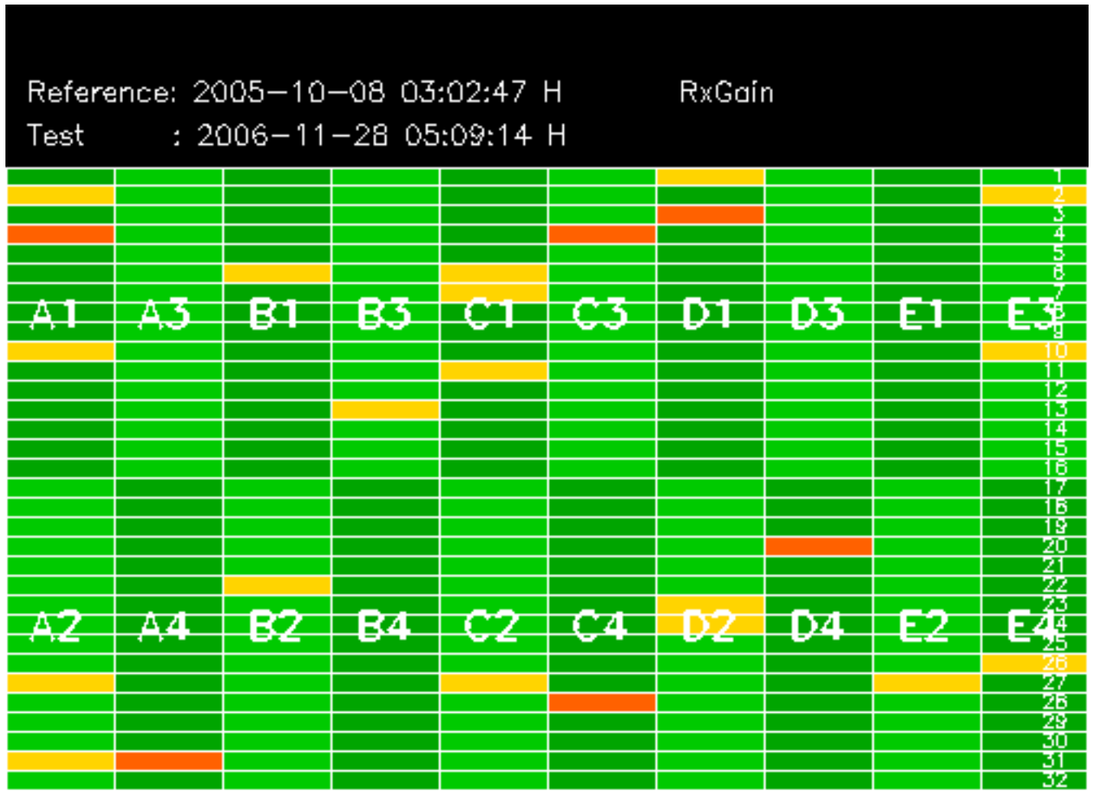

Doppler difference, estimated−predicted 'WVS' 'IS2' ascending −error mean of −8.4505942 Hz
−100Hz
+100Hz


Doppler difference, estimated−predicted 'WVS' 'IS2' descending −error mean of −8.4651894 Hz
−100Hz
+100Hz

No anomalies observed on available MS products:

No anomalies observed.


Reference: 2001-02-09 13:50:42 H
Test : 2006-11-28 05:09:14 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 : 2006-11-28 05:09:14 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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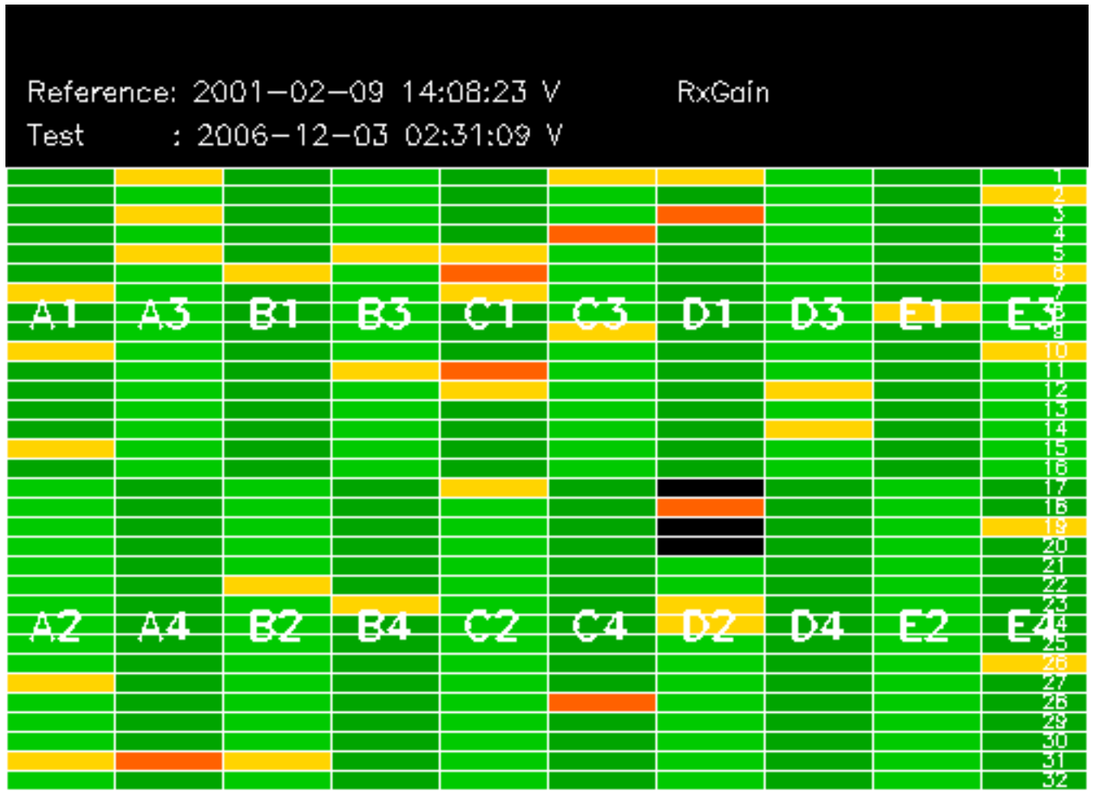
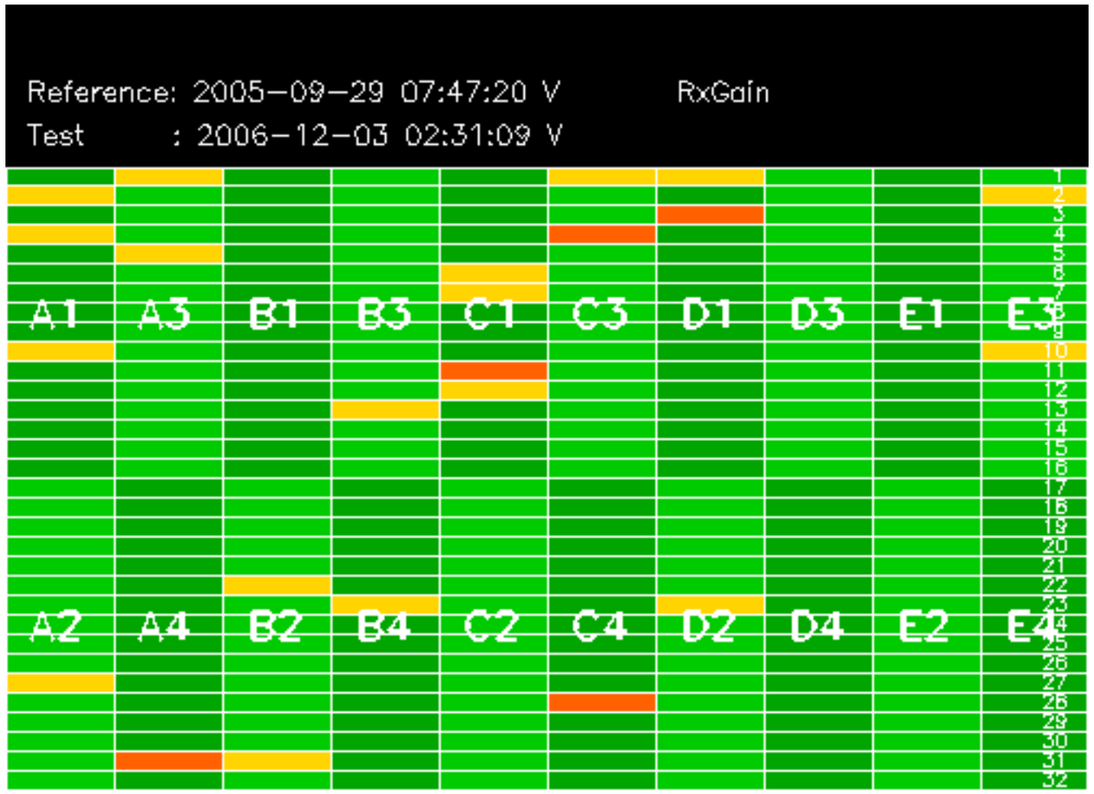

Reference: 2001-02-09 14:08:23 V
Test : 2006-12-03 02:31:09 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-12-03 02:31:09 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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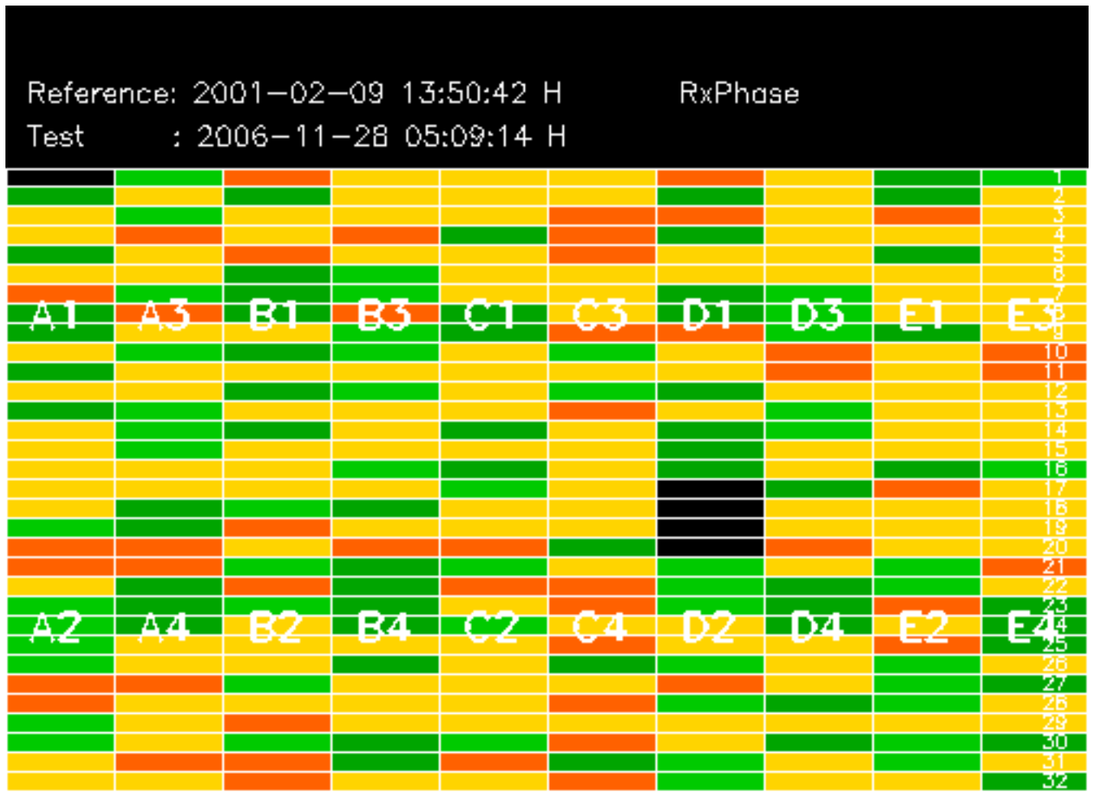
Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2006-11-28 05:09:14 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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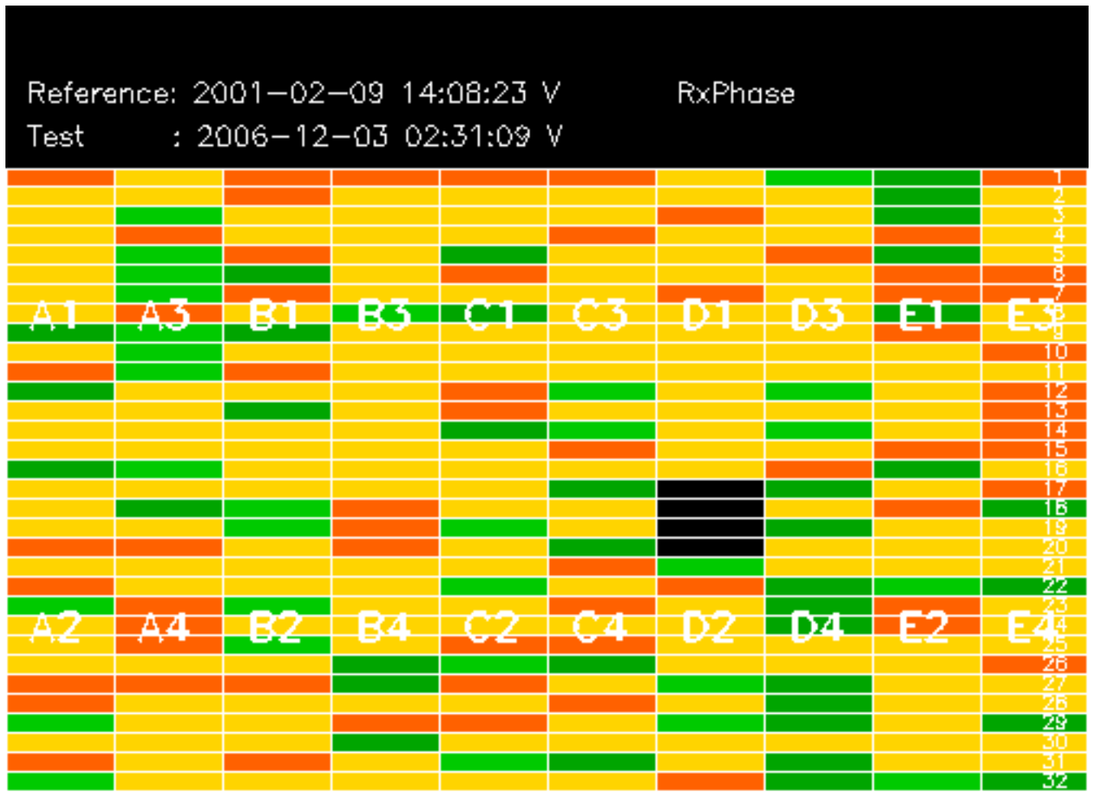
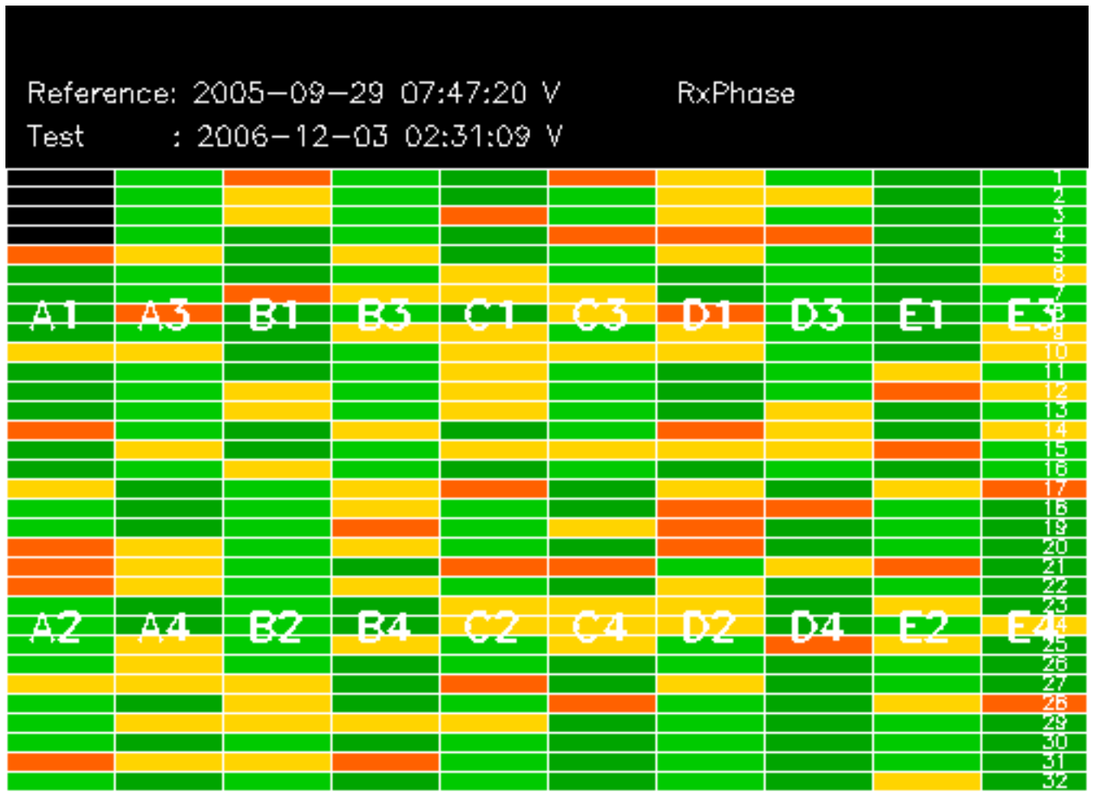
Reference: 2005-10-08 03:02:47 H
RxPhase
Test : 2006-11-28 05:09:14 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2006-12-03 02:31:09 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 : 2006-12-03 02:31:09 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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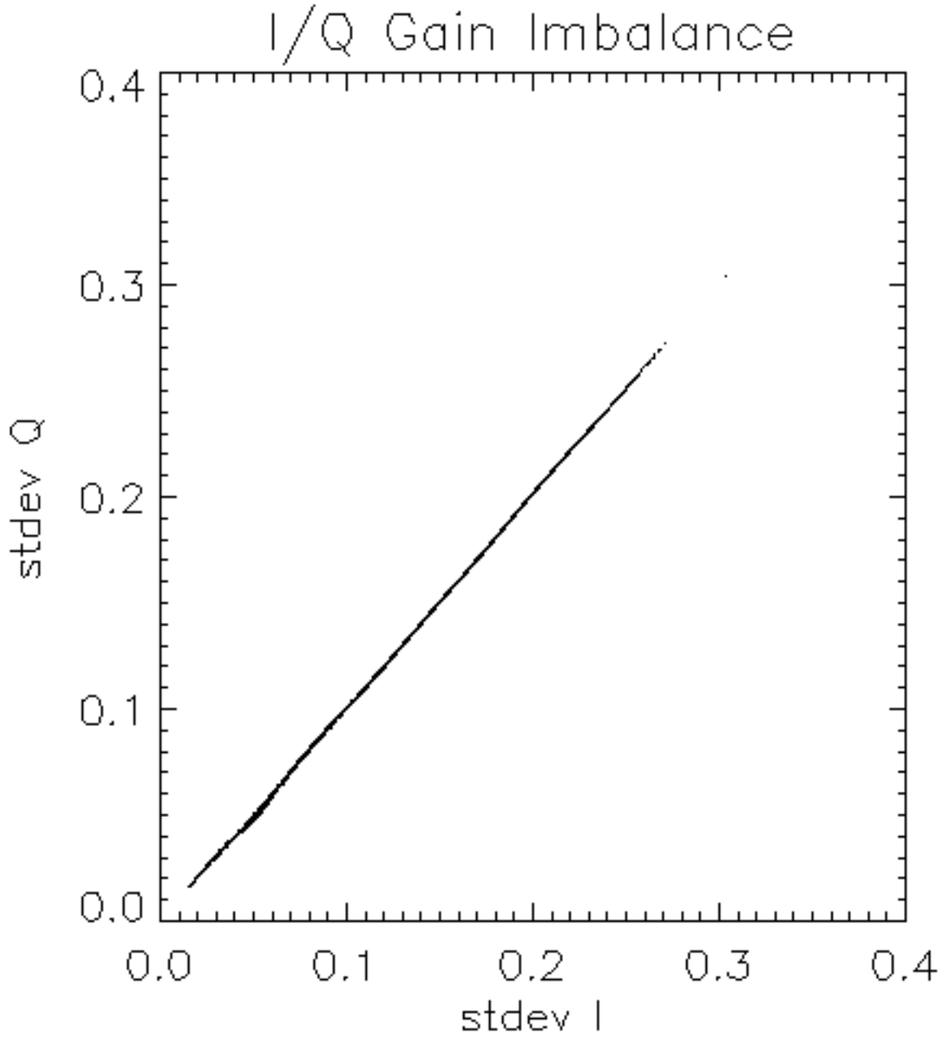
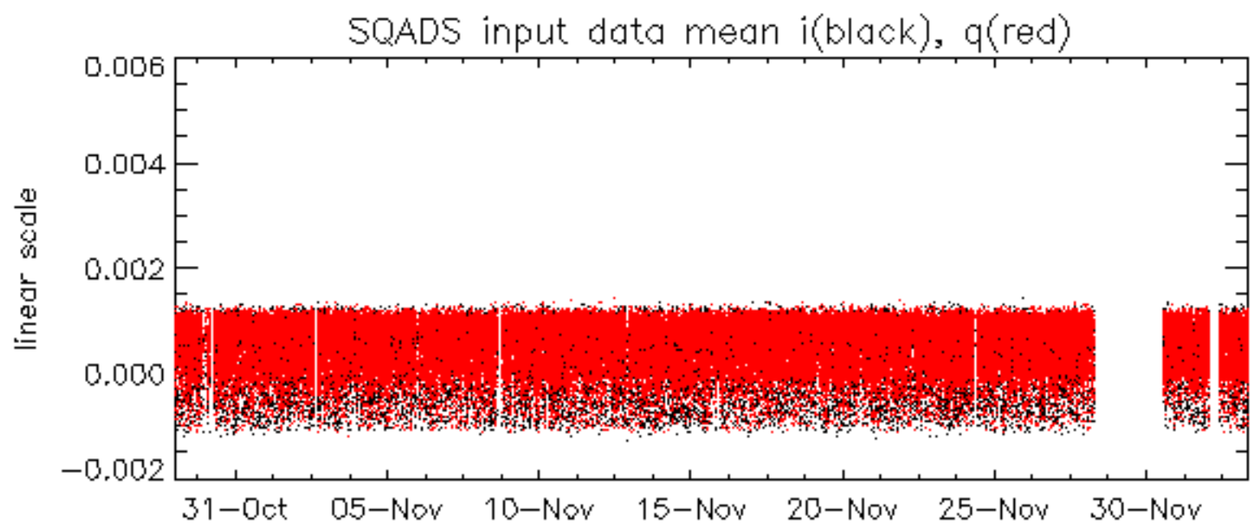
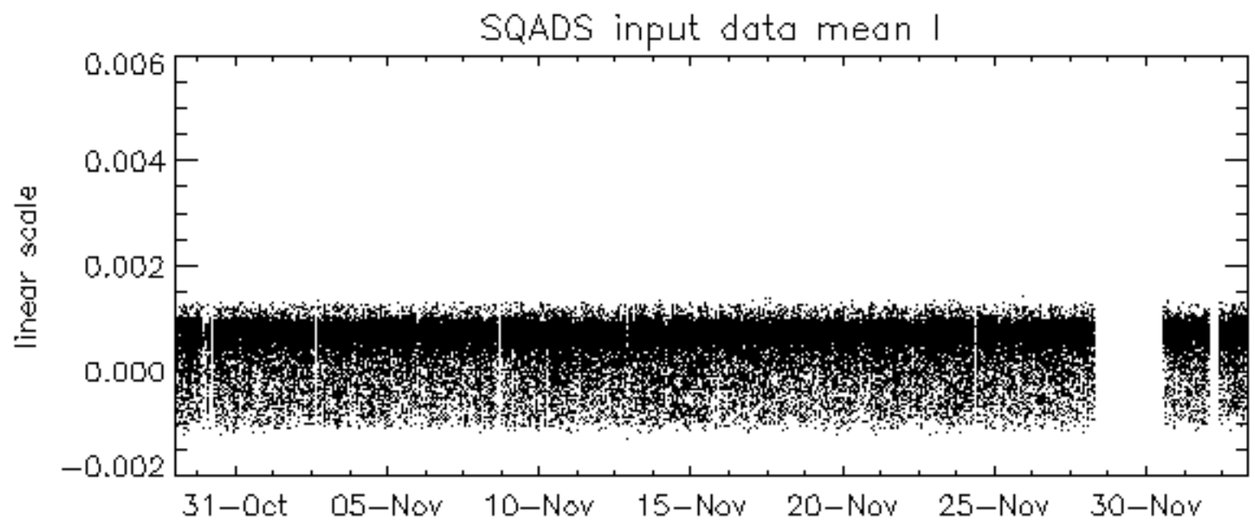
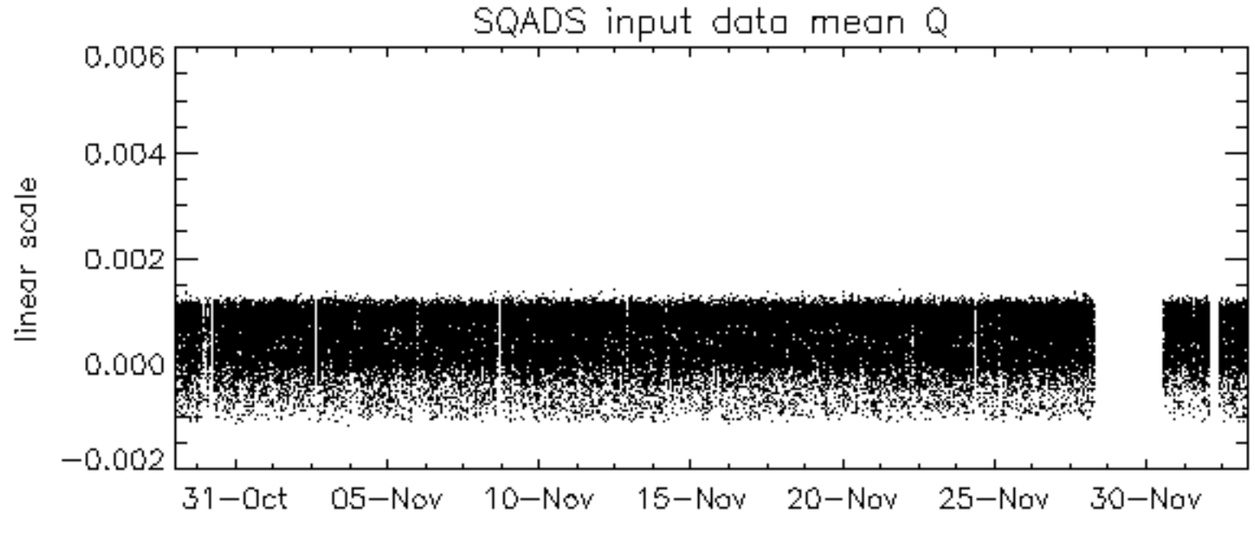
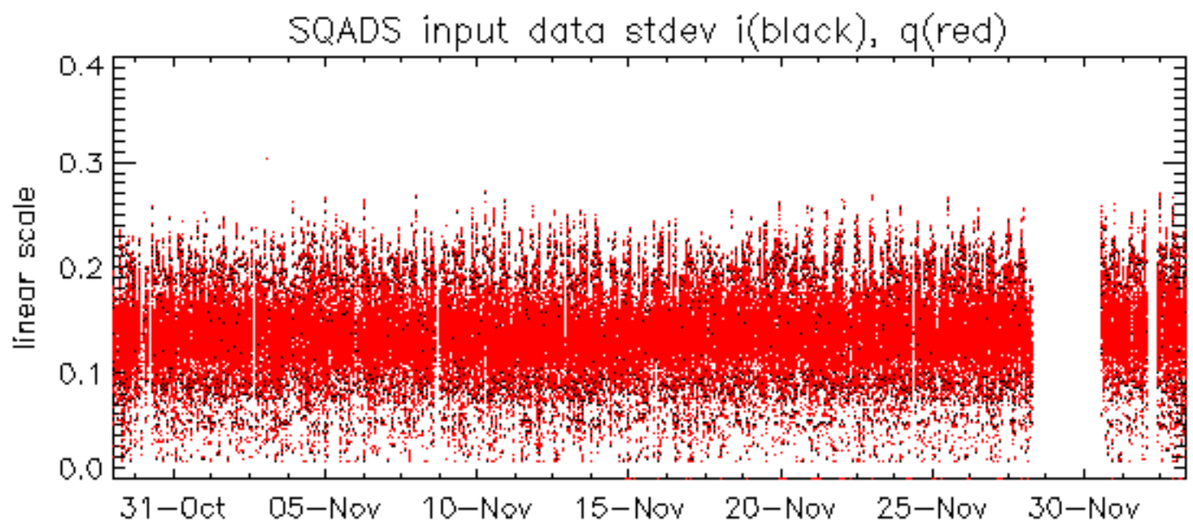
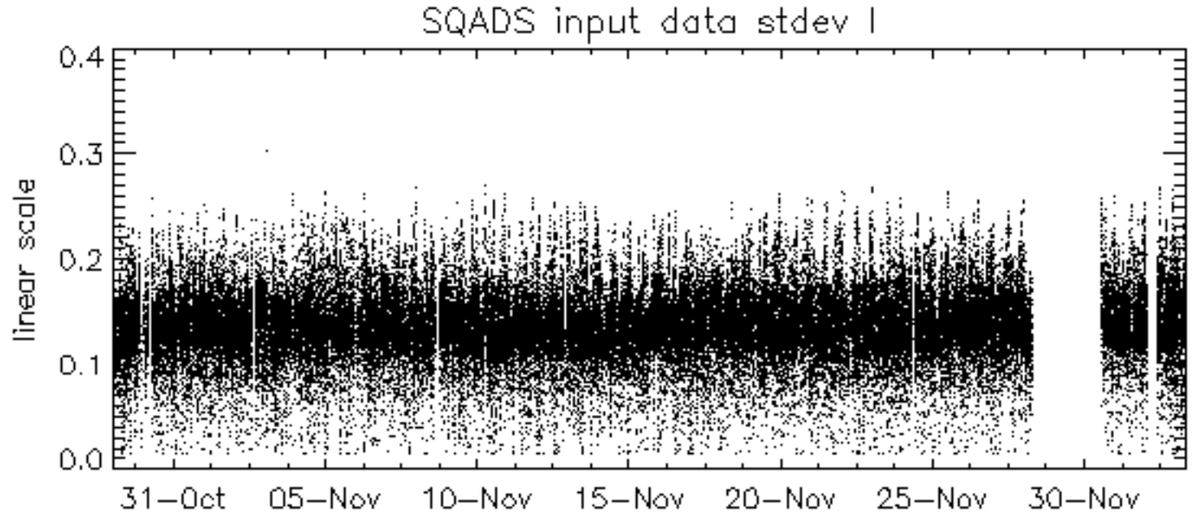

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.0
0.1
0.2
0.3
0.4
stdev I

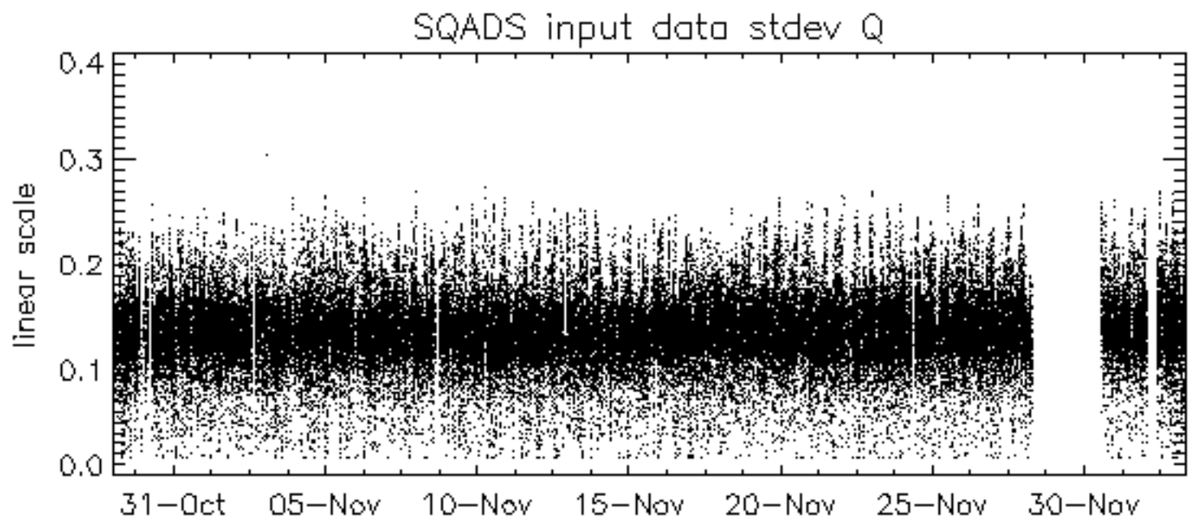

SQADS input data mean i(black), q(red)
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov

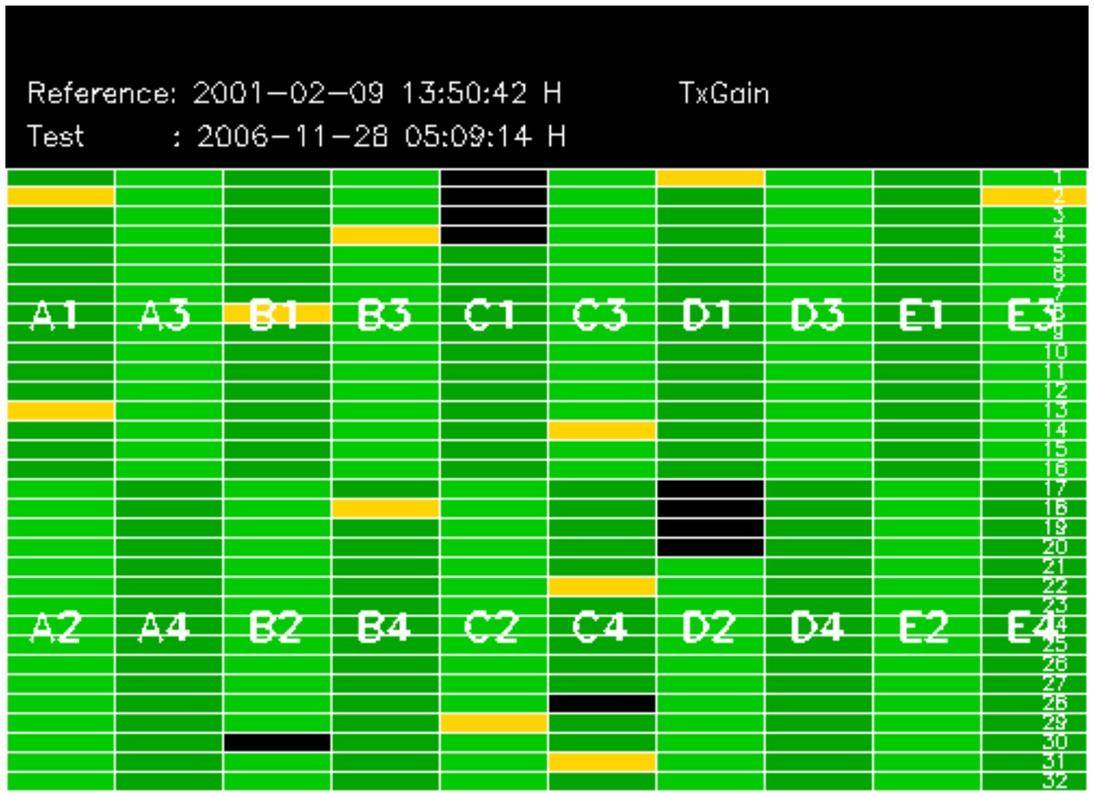

SQADS input data mean I
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov


SQADS input data mean Q
linear scale
0.006
0.004
0.002
0.000
−0.002
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov


SQADS input data stdev i(black), q(red)
linear scale
0.4
0.3
0.2
0.1
0.0
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov


SQADS input data stdev I
linear scale
0.4
0.3
0.2
0.1
0.0
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov


SQADS input data stdev Q
linear scale
0.4
0.3
0.2
0.1
0.0
31−Oct
05−Nov
10−Nov
15−Nov
20−Nov
25−Nov
30−Nov


Reference: 2001-02-09 13:50:42 H
Test : 2006-11-28 05:09:14 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
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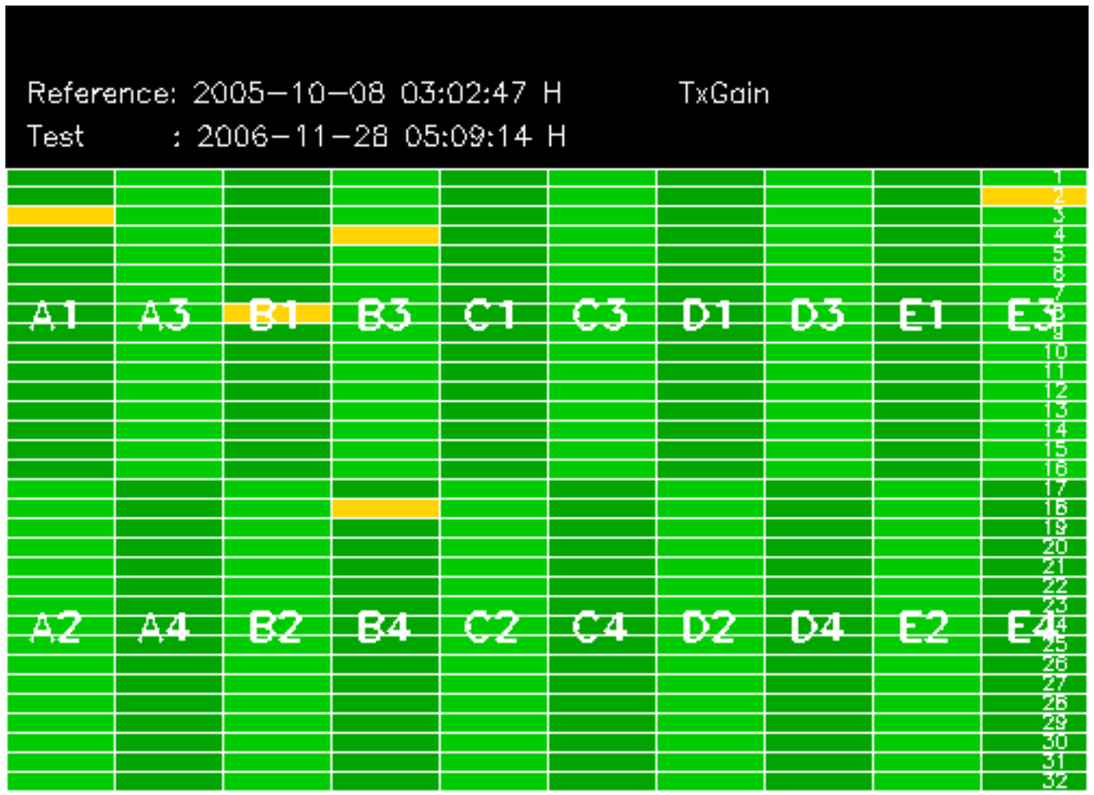
Reference: 2005-10-08 03:02:47 H
Test : 2006-11-28 05:09:14 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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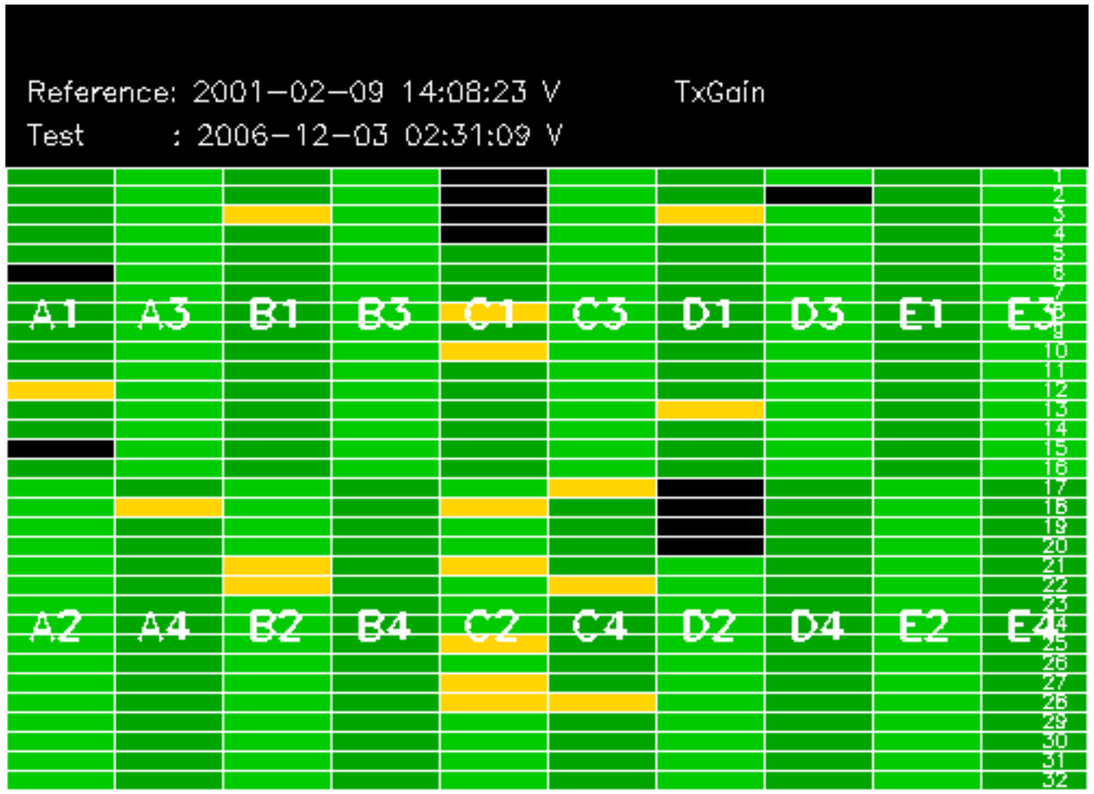
Reference: 2001-02-09 14:08:23 V
Test : 2006-12-03 02:31:09 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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Reference: 2005-09-29 07:47:20 V
Test : 2006-12-03 02:31:09 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
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D4
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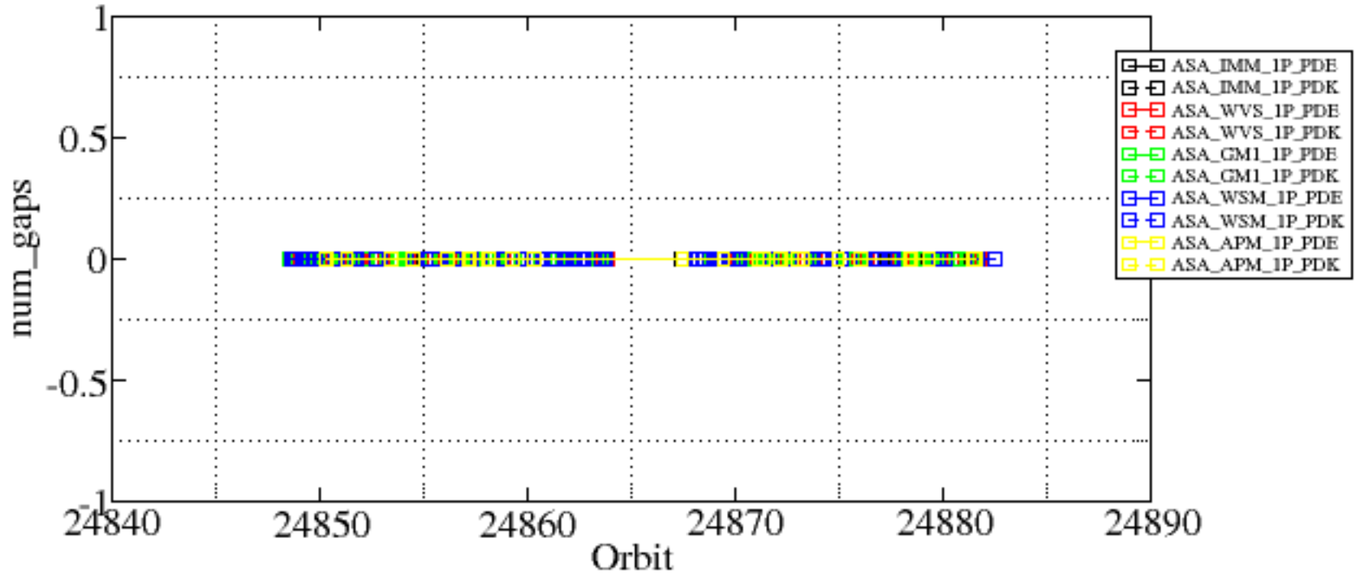
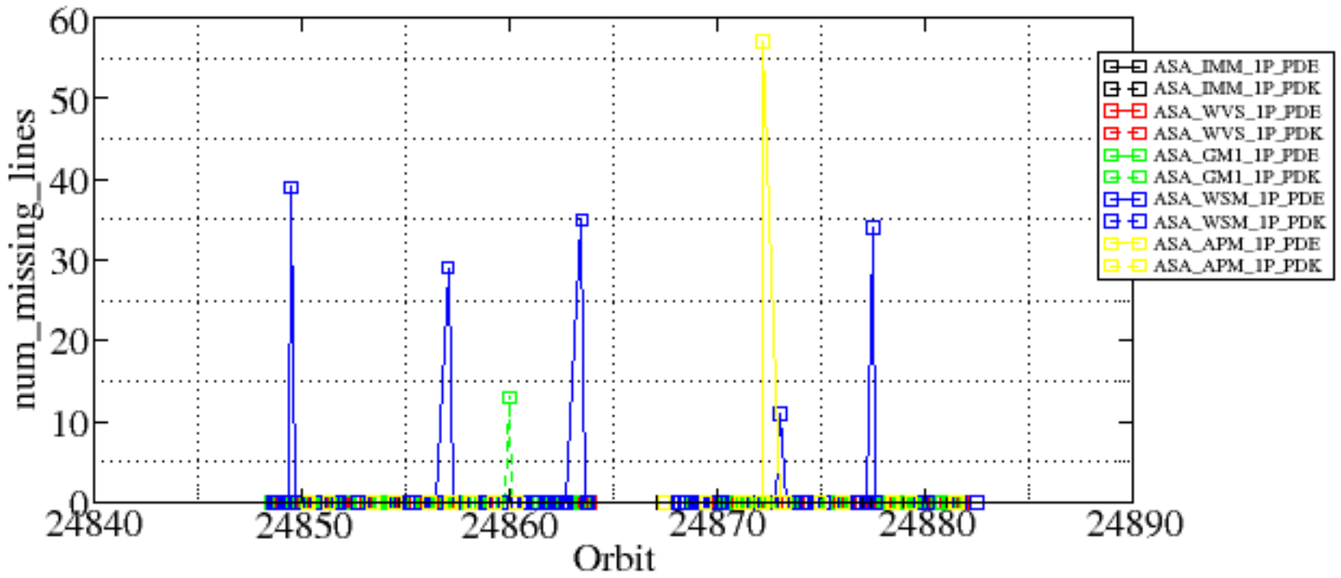
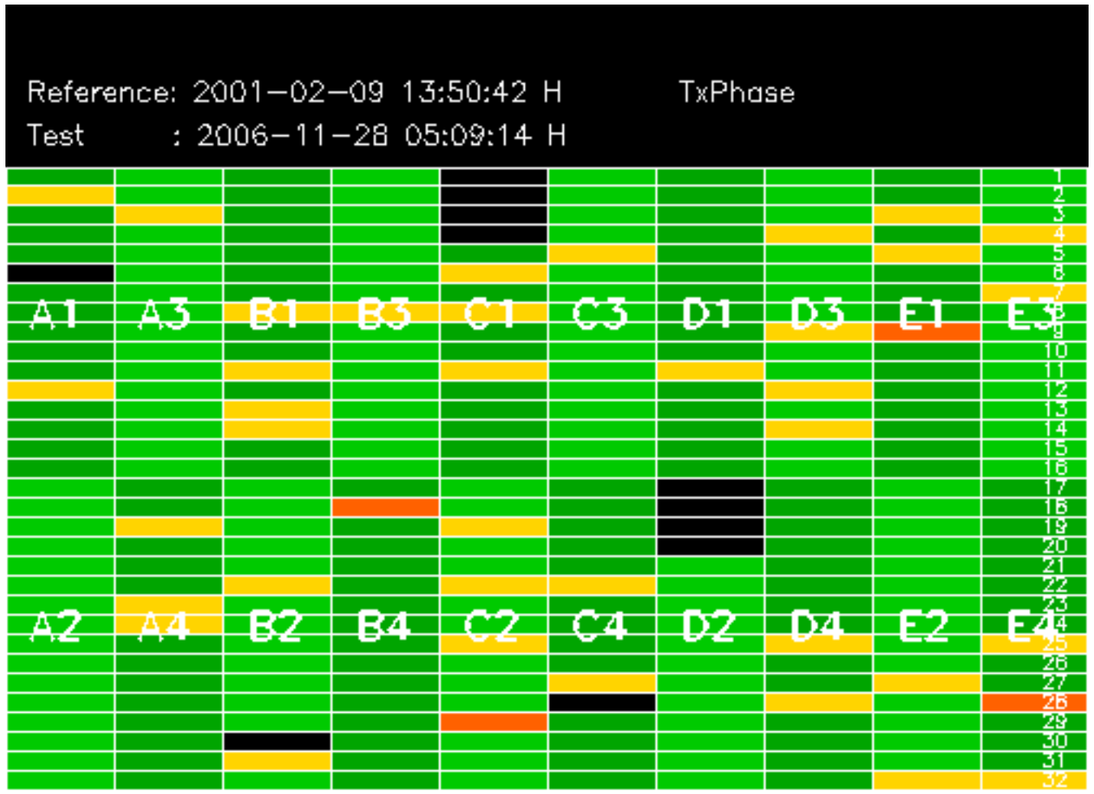
Summary of analysis for the last 3 days 2006120[123]
The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_GM1_1PNPDK20061201_191311_000006402053_00257_24860_9532.N1	0	13
ASA_WSM_1PNPDE20061201_013231_000001402053_00246_24849_3285.N1	0	39
ASA_WSM_1PNPDE20061201_141605_000000852053_00254_24857_4521.N1	0	29
ASA_WSM_1PNPDE20061202_010155_000000672053_00260_24863_5042.N1	0	35
ASA_WSM_1PNPDE20061202_010155_000001402053_00260_24863_5534.N1	0	35
ASA_WSM_1PNPDE20061202_170159_000000792053_00270_24873_5632.N1	0	11
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6506.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6579.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6802.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_6989.N1	0	34
ASA_WSM_1PNPDE20061203_003118_000001832053_00274_24877_7194.N1	0	34
ASA_APM_1PNPDE20061202_153639_000000892053_00269_24872_5526.N1	0	57


num_gaps
1
0.5
0
-0.5
-1
24840
24850
24860
24870
24880
24890
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
60
50
40
30
20
10
0
24840
24850
24860
24870
24880
24890
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 : 2006-11-28 05:09:14 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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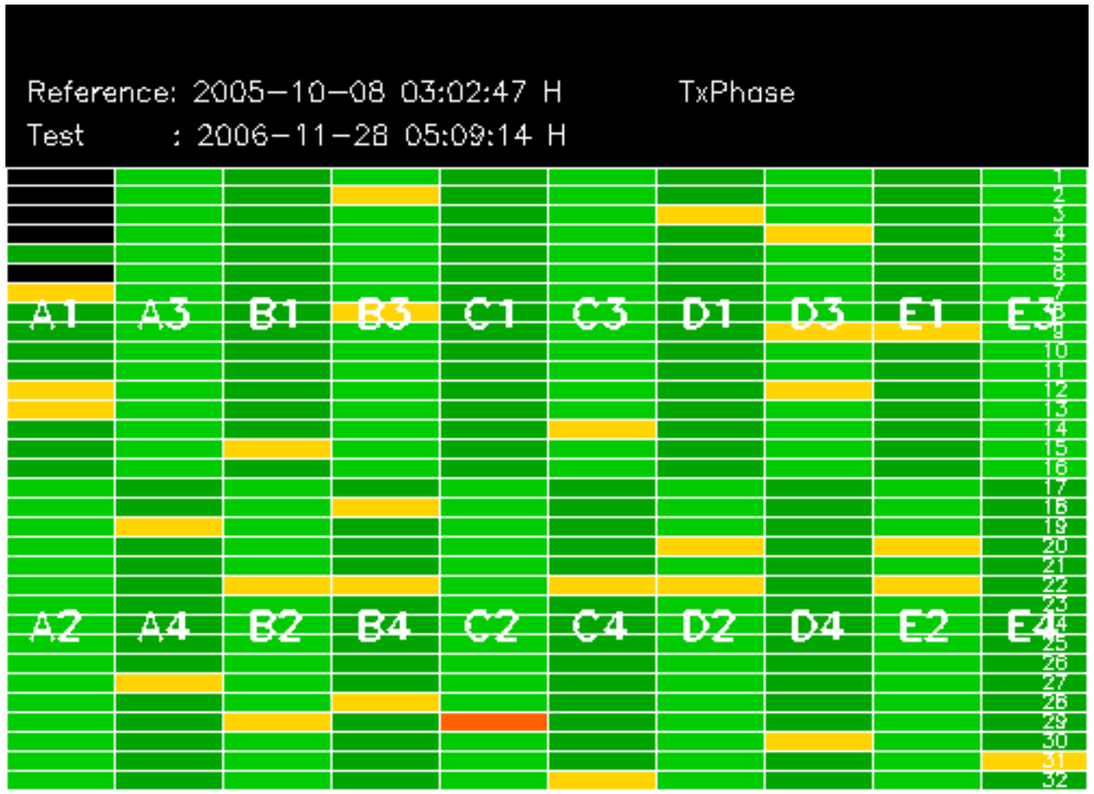
Reference: 2005-10-08 03:02:47 H
Test : 2006-11-28 05:09:14 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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E4
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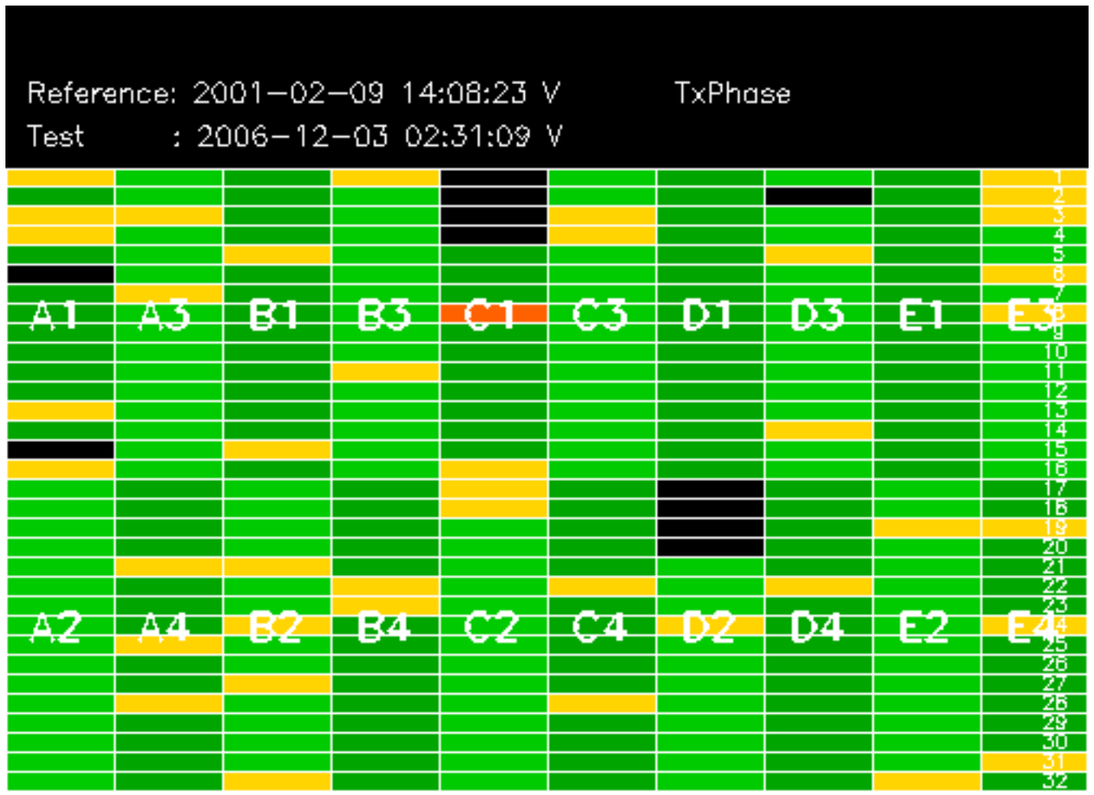
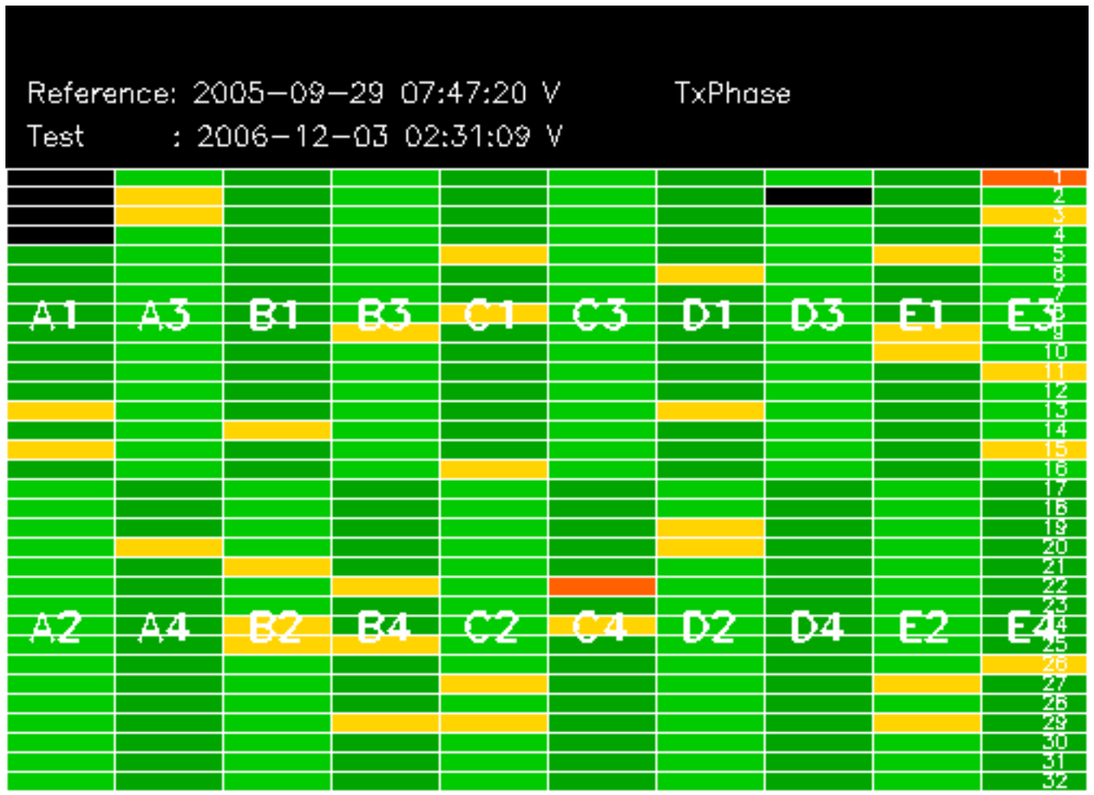

Reference: 2001-02-09 14:08:23 V
Test : 2006-12-03 02:31:09 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2005-09-29 07:47:20 V
Test : 2006-12-03 02:31:09 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
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E4
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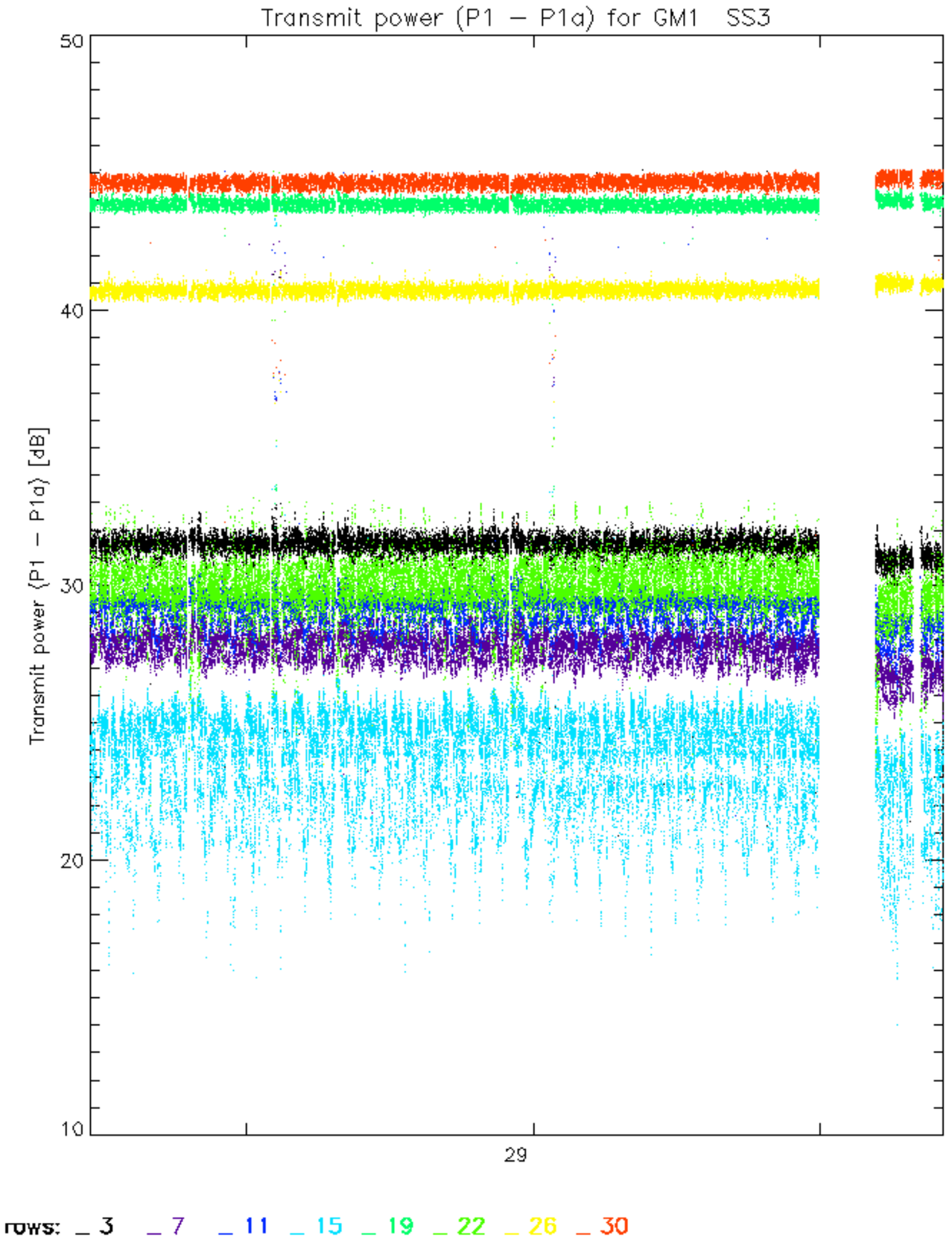
Transmit power (P1 – P1a) for GM1 SS3
Transmit power (P1 – P1a) [dB]
50
40
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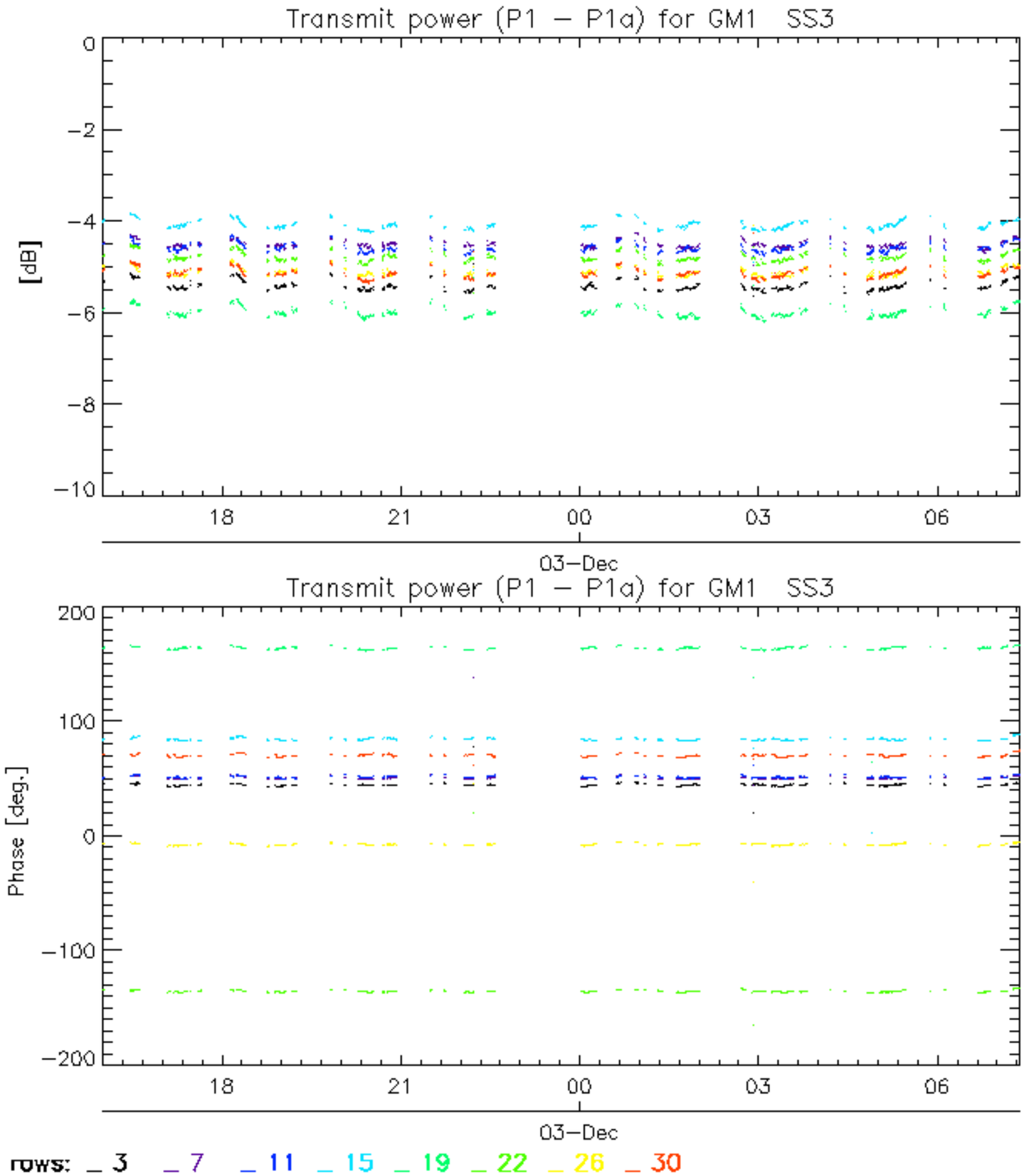
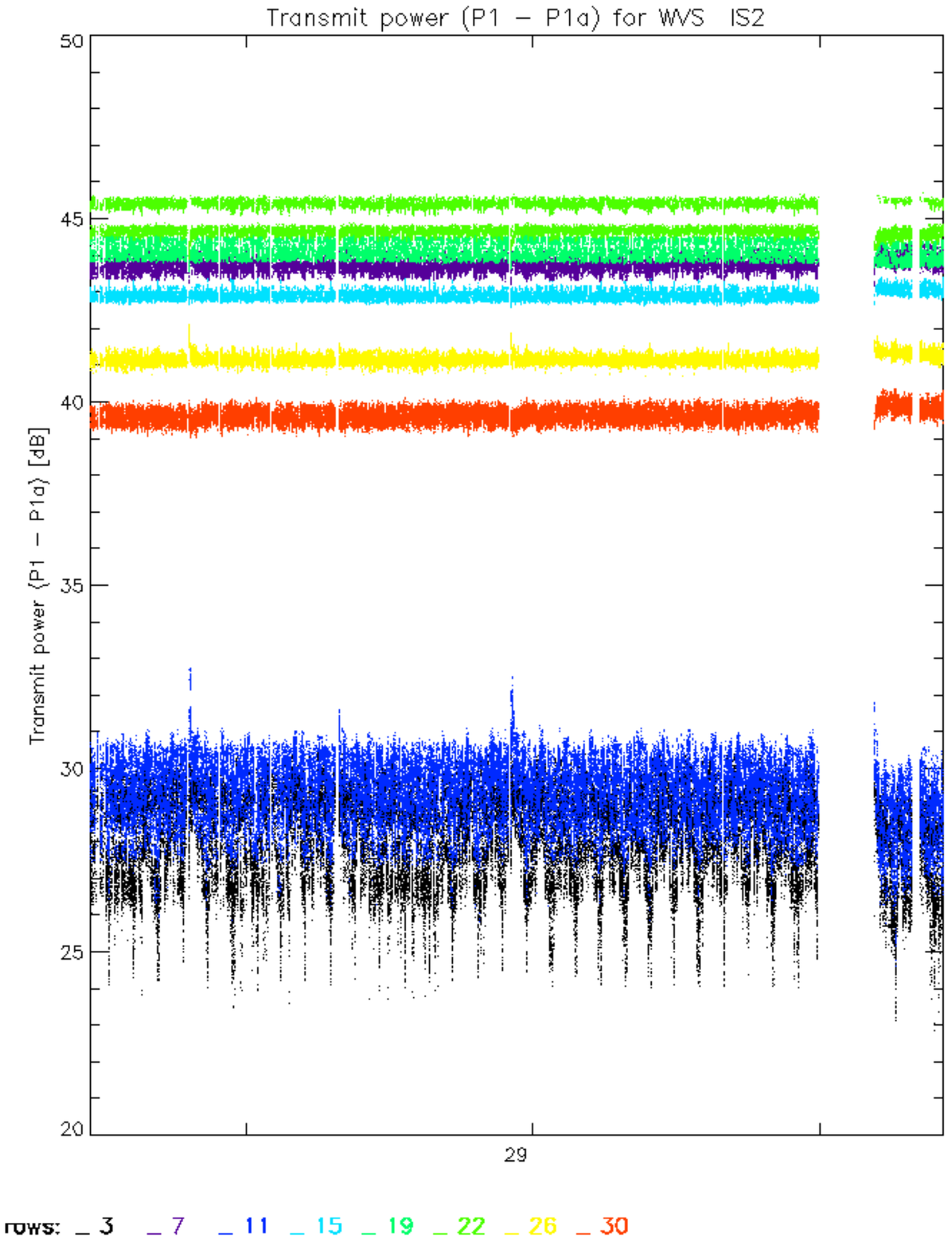
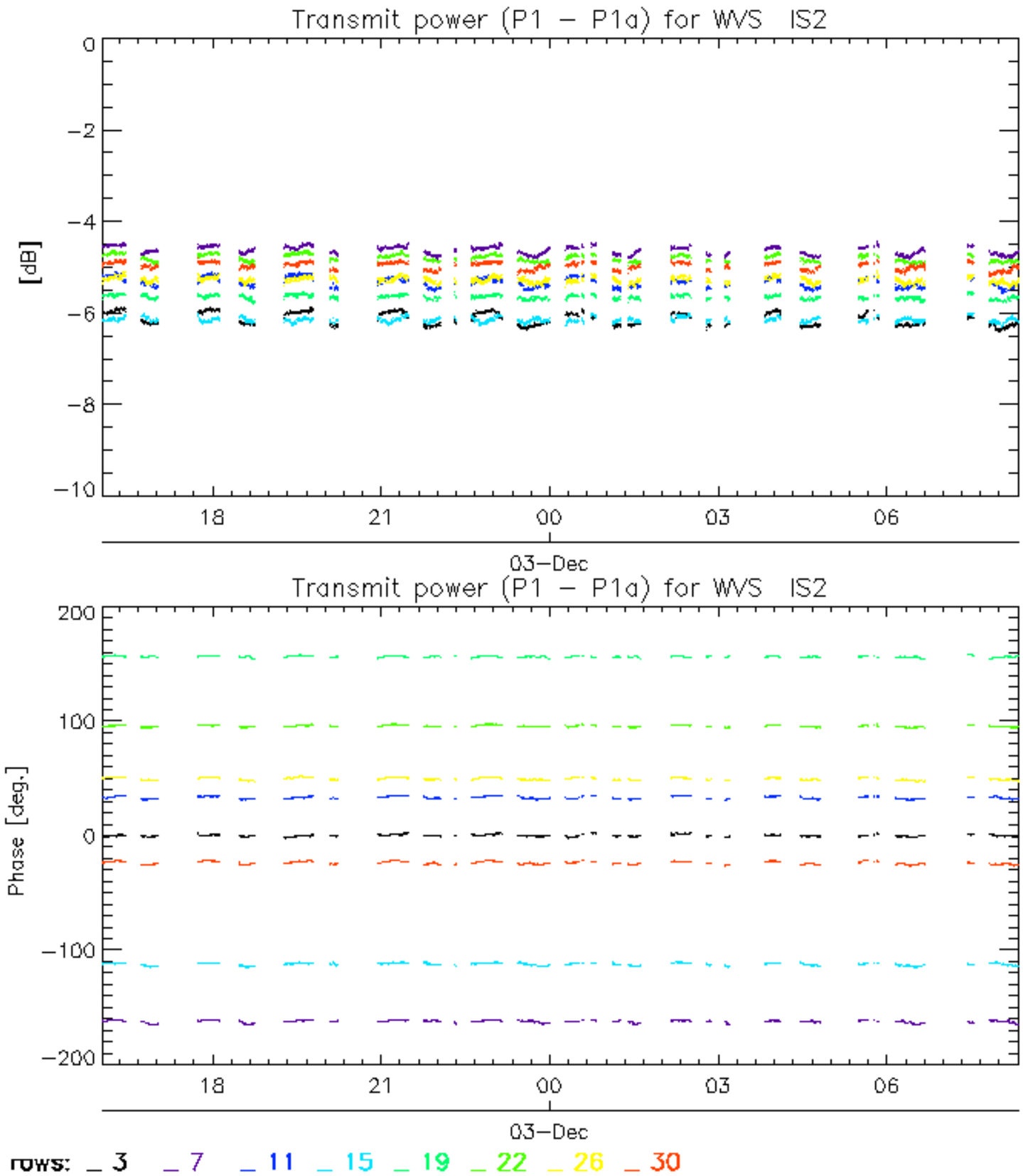
20
10
29
rows: 3 7 11 15 19 22 26 30


Transmit power (P1 – P1a) for GM1 SS3
0
−2
−4
−6
−8
−10
[dB]
18
21
00
03
06
03–Dec
Transmit power (P1 – P1a) for GM1 SS3
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
03–Dec
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
29
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
03–Dec
Transmit power (P1 – P1a) for WVS IS2
200
100
0
−100
−200
Phase [deg.]
18
21
00
03
06
03–Dec
rows: 3 7 11 15 19 22 26 30

No unavailabilities during the reported period.