

PRELIMINARY REPORT OF 050521

ATTENTION: This report is automatically generated no comments are provided on data analysis

last update on Mon May 23 10:10:30 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

Preliminary report. Instrument unavailabilities are not yet reported

2.2 - Auxiliary files

Summary of the auxiliary files used from 2005-05-22 00:00:00 to 2005-05-23 10:10:30

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM
ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	26	45	11	1	0
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	26	45	11	1	0
ASA_XCA_AXVIEC20041027_164238_20040412_000000_20051231_000000	26	45	11	1	0
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	26	45	11	1	0

PDHS-E					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM
ASA_CON_AXVIEC20050324_172815_20030601_000000_20051231_000000	47	52	39	16	2
ASA_INS_AXVIEC20041215_180208_20030211_000000_20051231_000000	47	52	39	16	2
ASA_XCA_AXVIEC20041027_164238_20040412_000000_20051231_000000	47	52	39	16	2
ASA_XCH_AXVIEC20041215_180350_20020301_000000_20051231_000000	47	52	39	16	2

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

-Preliminary report. MS data is not yet controled

Polarisation	Start Time
V	20050522 023114
H	20050521 030250

MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

MSM in H/H polarisation

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

4 - Internal calibration Results

-Preliminary report.The data is not yet controled

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)
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P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.347407	0.006668	-0.022235
7	P1	-3.111111	0.014016	-0.020540
11	P1	-4.656321	0.027746	0.018108
15	P1	-5.542062	0.045329	0.059716
19	P1	-3.722788	0.003898	-0.027797
22	P1	-4.589399	0.013417	-0.011259
26	P1	-4.879191	0.018512	0.002642
30	P1	-7.139845	0.028905	-0.002547
3	P1	-15.706758	0.079362	0.057678
7	P1	-15.503457	0.098587	-0.019814
11	P1	-21.273939	0.226290	-0.147252
15	P1	-11.425478	0.033024	0.170372
19	P1	-14.342184	0.033292	-0.097446
22	P1	-15.939373	0.331405	-0.041104
26	P1	-17.638664	0.193614	-0.150004
30	P1	-17.870108	0.243493	0.030318

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-22.054083	0.078698	-0.021447
7	P2	-22.231920	0.101613	-0.026338
11	P2	-14.119998	0.100933	0.110864
15	P2	-7.100334	0.086839	-0.064225
19	P2	-9.649584	0.090618	0.023263
22	P2	-16.889238	0.090671	-0.025947
26	P2	-16.488571	0.091815	-0.046178
30	P2	-18.820915	0.080214	-0.019443

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.168072	0.003248	-0.016098
7	P3	-8.168072	0.003248	-0.016098
11	P3	-8.168072	0.003248	-0.016098
15	P3	-8.168072	0.003248	-0.016098
19	P3	-8.168072	0.003248	-0.016098
22	P3	-8.168072	0.003248	-0.016098
26	P3	-8.168072	0.003248	-0.016098
30	P3	-8.168072	0.003248	-0.016098

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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P2 Cyclic statistics

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

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS



4.3.2 - Evolution for GM1



5 - RAW data statistics

-Preliminary report. The data is not yet controlled

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000438036
	stdev	2.32092e-07
MEAN Q	mean	0.000464589
	stdev	2.42391e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.125696
	stdev	0.00104948
STDEV Q	mean	0.125937
	stdev	0.00105963



5.3 - Gain imbalance I/Q



6 - Telemetry analysis

Summary of analysis for the last 3 days 2005052[901]

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_1PNPDE20050520_004259_000000622037_00245_16832_2011.N1	1	0
ASA_IMM_1PNPDE20050520_155124_000001072037_00254_16841_2063.N1	1	0
ASA_IMM_1PNPDK20050520_061446_000004082037_00249_16836_4748.N1	0	19
ASA_IMM_1PNPDK20050520_074429_000000832037_00250_16837_4758.N1	0	17
ASA_IMM_1PNPDK20050520_075913_000003382037_00250_16837_4755.N1	0	14
ASA_IMM_1PNPDK20050520_092334_000000392037_00251_16838_4760.N1	0	12
ASA_IMM_1PNPDK20050520_094552_000000892037_00251_16838_4763.N1	0	15
ASA_IMM_1PNPDK20050520_123932_000001082037_00253_16840_4766.N1	0	13
ASA_IMM_1PNPDK20050520_124234_000001042037_00253_16840_4769.N1	0	29
ASA_IMM_1PNPDK20050521_072959_000002402037_00264_16851_4821.N1	0	6
ASA_IMM_1PNPDK20050521_074032_000000622037_00264_16851_4831.N1	0	14
ASA_IMM_1PNPDK20050521_085157_000000692037_00265_16852_4829.N1	0	7
ASA_IMM_1PNPDK20050521_090859_000000622037_00265_16852_4827.N1	0	7
ASA_IMM_1PNPDK20050521_091100_000000302037_00265_16852_4828.N1	0	12
ASA_IMM_1PNPDK20050521_104453_000000622037_00266_16853_4835.N1	0	7
ASA_IMM_1PNPDK20050521_104654_000000342037_00266_16853_4836.N1	0	10
ASA_IMM_1PNPDK20050521_134748_000000432037_00268_16855_4838.N1	0	7
ASA_GM1_1PNPDK20050520_152850_000003502037_00254_16841_1201.N1	0	15
ASA_GM1_1PNPDK20050521_074554_000006942037_00264_16851_1258.N1	0	6
ASA_GM1_1PNPDK20050521_085554_000006402037_00265_16852_1260.N1	0	14
ASA_GM1_1PNPDK20050521_094520_000009242037_00265_16852_1269.N1	0	6
ASA_GM1_1PNPDK20050521_135741_000007002037_00268_16855_1296.N1	0	15
ASA_WSM_1PNPDE20050520_013211_000003062037_00246_16833_3281.N1	0	71
ASA_WSM_1PNPDE20050520_141507_000000852037_00254_16841_3073.N1	0	30
ASA_WSM_1PNPDK20050520_074638_000000672037_00250_16837_3395.N1	0	15
ASA_WSM_1PNPDK20050520_074847_000000242037_00250_16837_3396.N1	0	7
ASA_WSM_1PNPDK20050520_093856_000004222037_00251_16838_3404.N1	0	15
ASA_WSM_1PNPDK20050520_111920_000000672037_00252_16839_3411.N1	0	17
ASA_WSM_1PNPDK20050520_112029_000000552037_00252_16839_3596.N1	0	5
ASA_WSM_1PNPDK20050520_112129_000002252037_00252_16839_3412.N1	0	24
ASA_WSM_1PNPDK20050520_120732_000001472037_00252_16839_3422.N1	0	21
ASA_WSM_1PNPDK20050520_122648_000001712037_00252_16839_3421.N1	0	14
ASA_WSM_1PNPDK20050520_130156_000001042037_00253_16840_3423.N1	0	10
ASA_WSM_1PNPDK20050520_143056_000002442037_00254_16841_3435.N1	0	18
ASA_WSM_1PNPDK20050520_143640_000000672037_00254_16841_3423.N1	0	12
ASA_WSM_1PNPDK20050520_143747_000000612037_00254_16841_3424.N1	0	9
ASA_WSM_1PNPDK20050520_143849_000000552037_00254_16841_3425.N1	0	7
ASA_WSM_1PNPDK20050520_143944_000000612037_00254_16841_3426.N1	0	12
ASA_WSM_1PNPDK20050520_144045_000000612037_00254_16841_3427.N1	0	18
ASA_WSM_1PNPDK20050520_160911_000002262037_00255_16842_3441.N1	0	7

ASA_APM_1PNPDK20050520_081555_000000112037_00250_16837_2095.N1	0	3
ASA_APM_1PNPDK20050521_074432_000000572037_00264_16851_2097.N1	0	9

7 - Doppler Analysis

No anomalies observed Doppler evolution.
Doppler analysis performed over the last 35 days

7.1 - Unbiased Doppler Error for WVS

Evolution of unbiased Doppler error (Real - Expected)
<input type="checkbox"/>
Acsending
<input type="checkbox"/>
Descending

7.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler
<input type="checkbox"/>
Acsending
<input type="checkbox"/>
Descending

7.3 - Doppler evolution versus ANX for WVS

7.4 - Unbiased Doppler Error for GM1

Evolution of unbiased Doppler error (Real - Expected)
<input type="checkbox"/>
Acsending

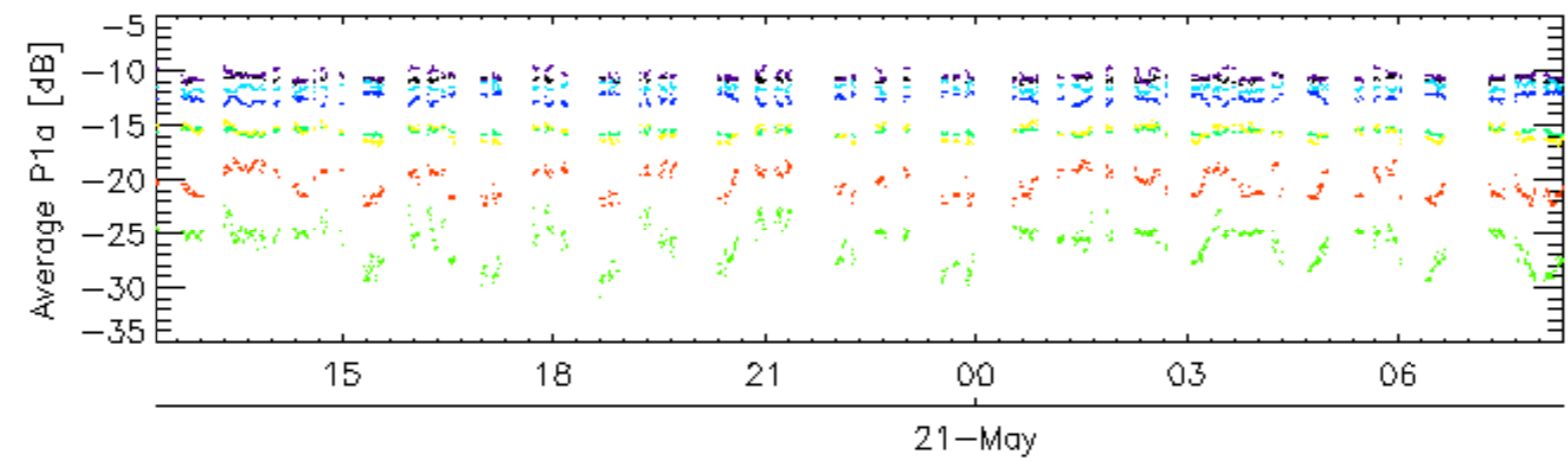
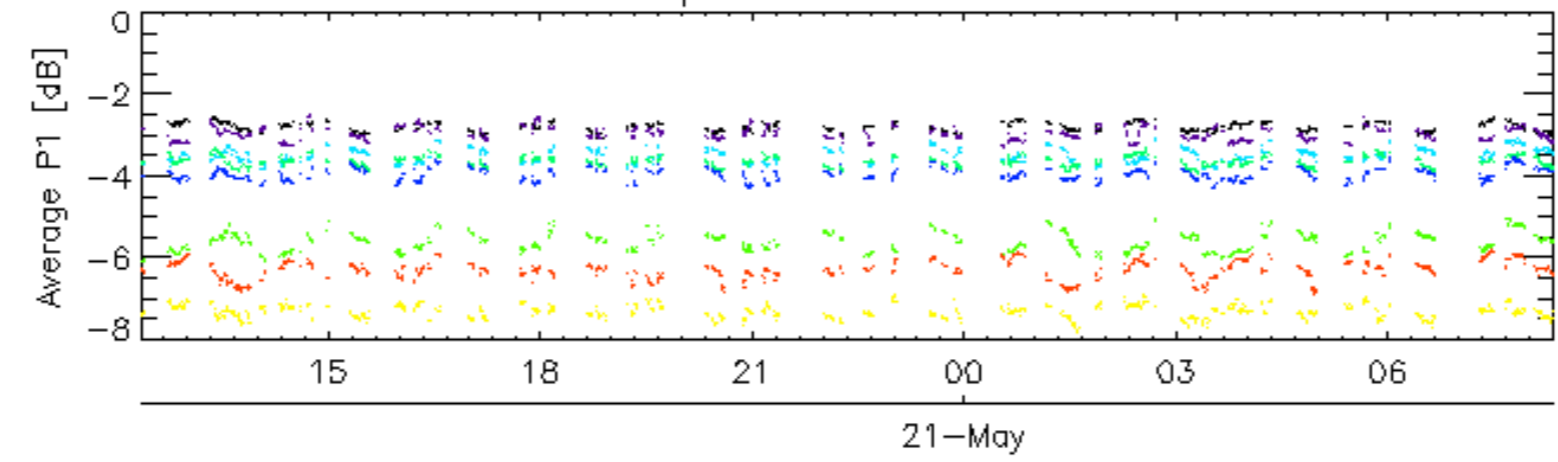
<input type="checkbox"/>
Descending

7.5 - Absolute Doppler for GM1

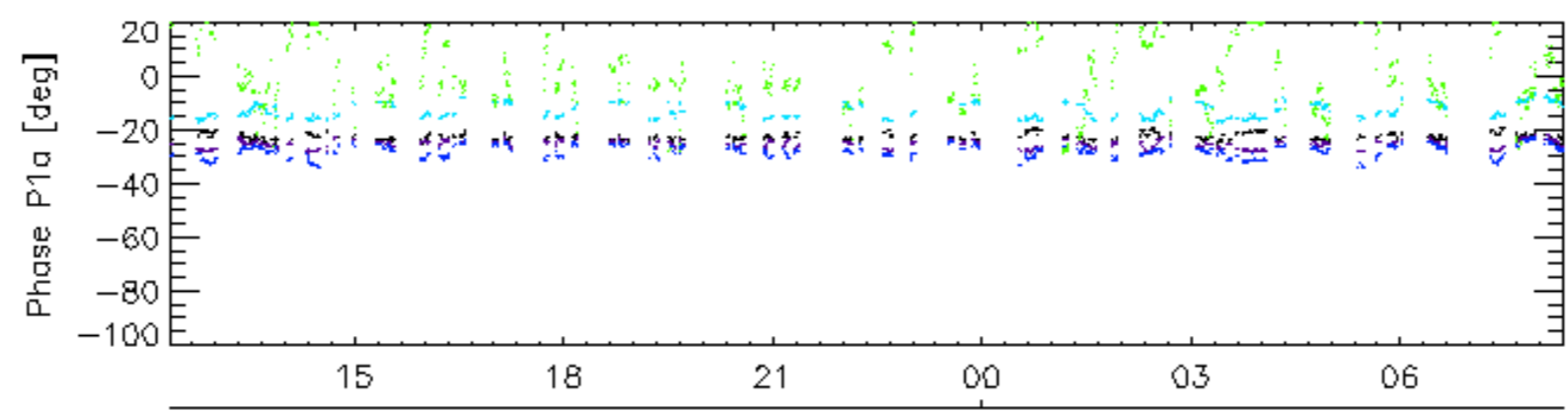
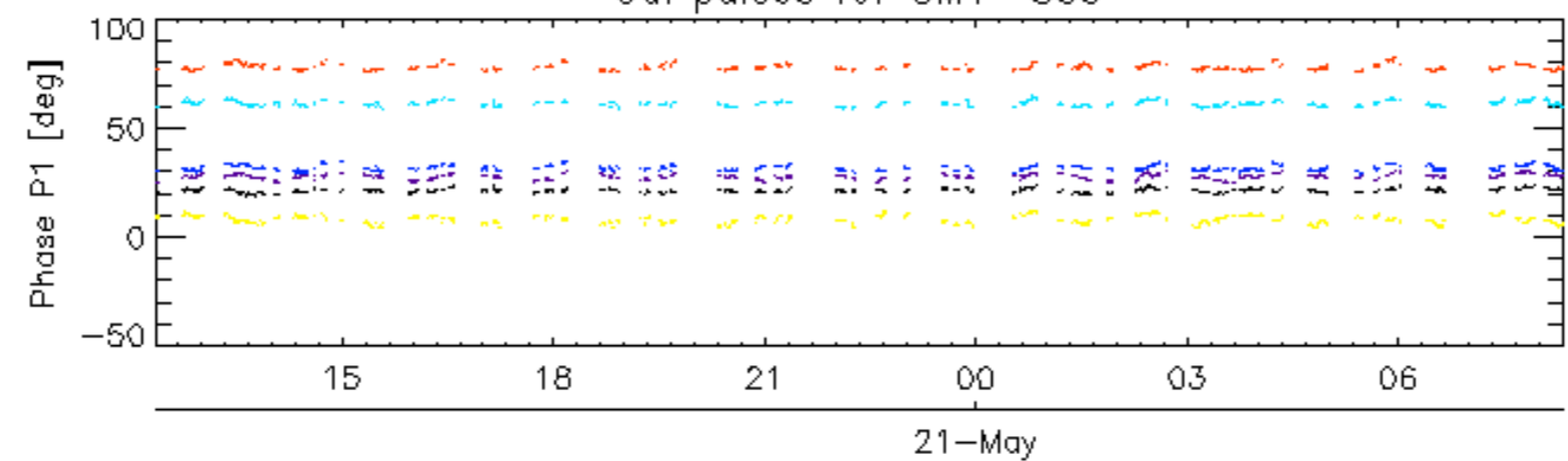
Evolution of Absolute Doppler
<input type="checkbox"/>
Ascending
<input type="checkbox"/>
Descending

7.6 - Doppler evolution versus ANX for GM1

Cal pulses for GM1 SS3

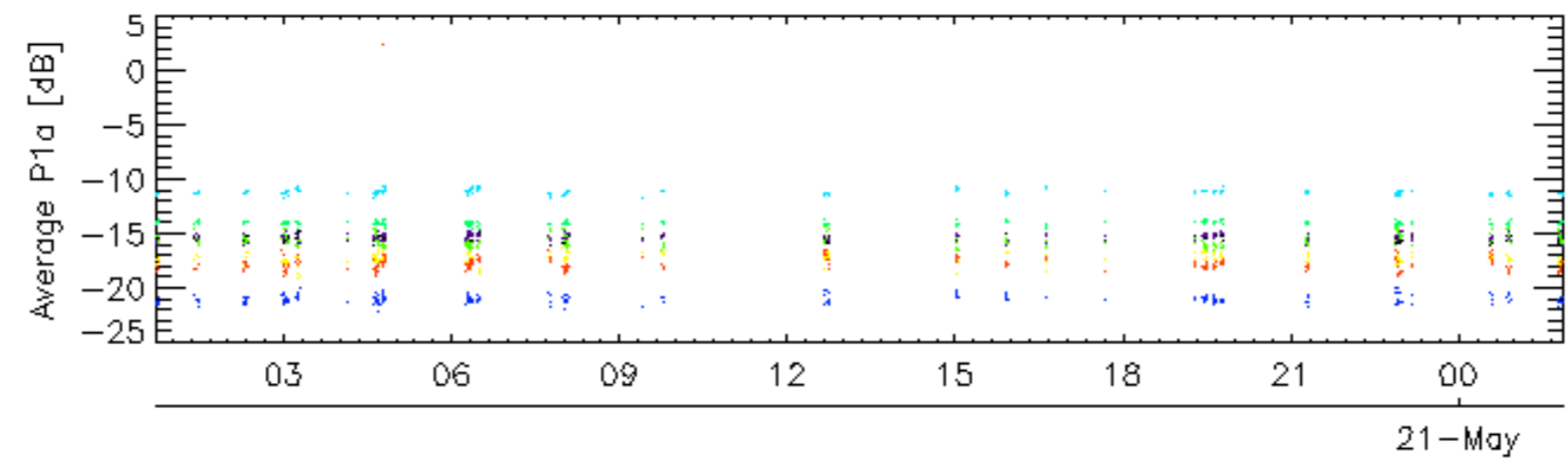
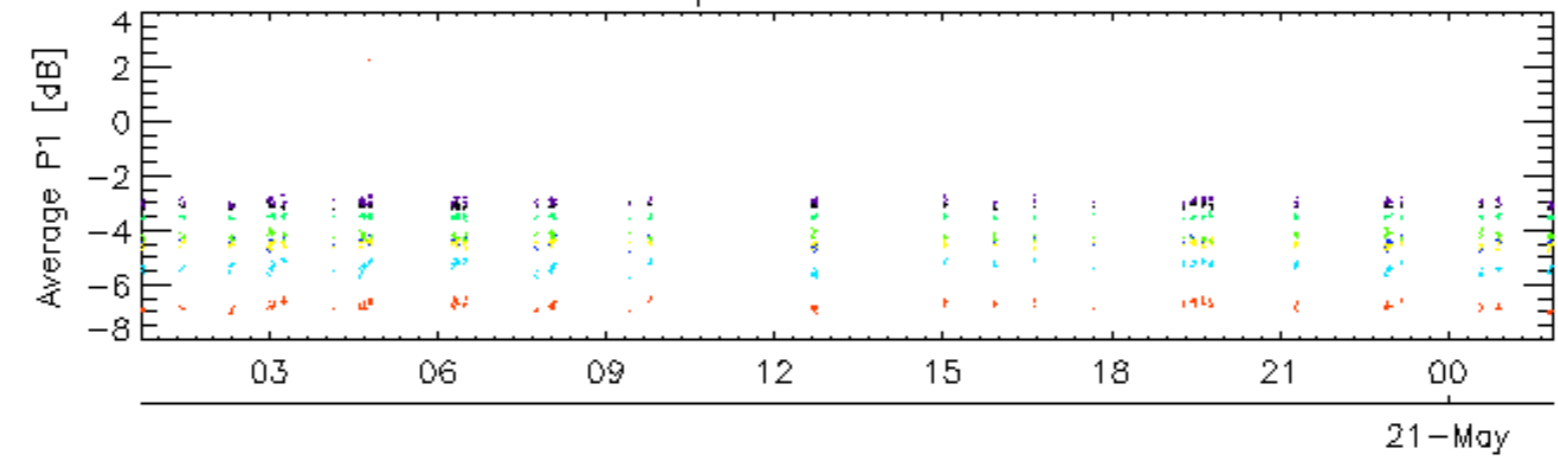


Cal pulses for GM1 SS3

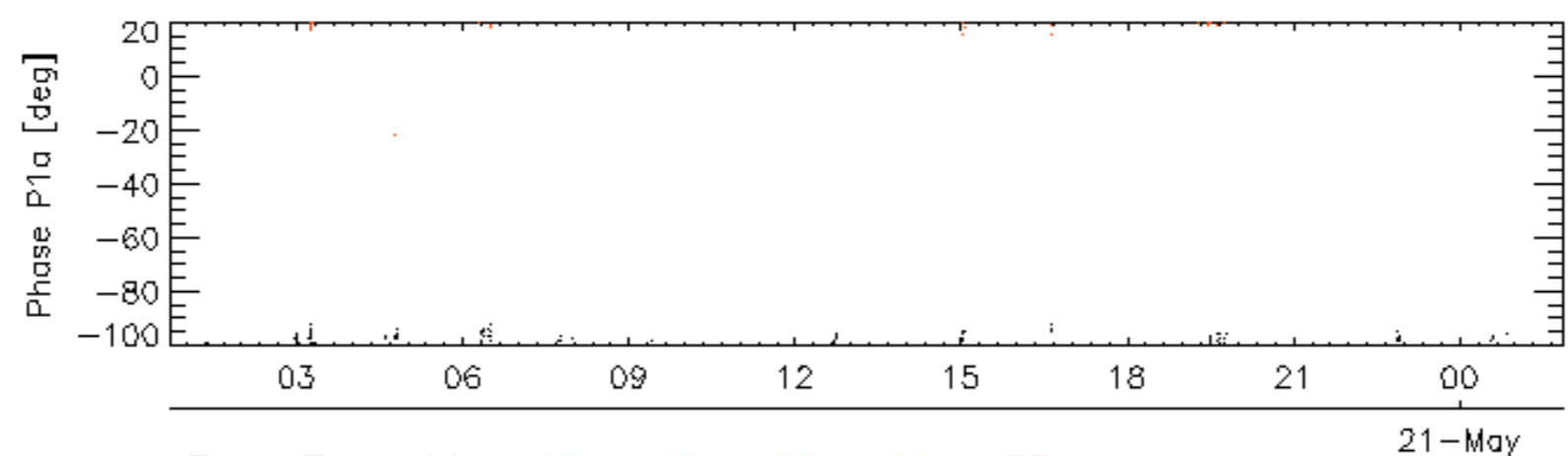
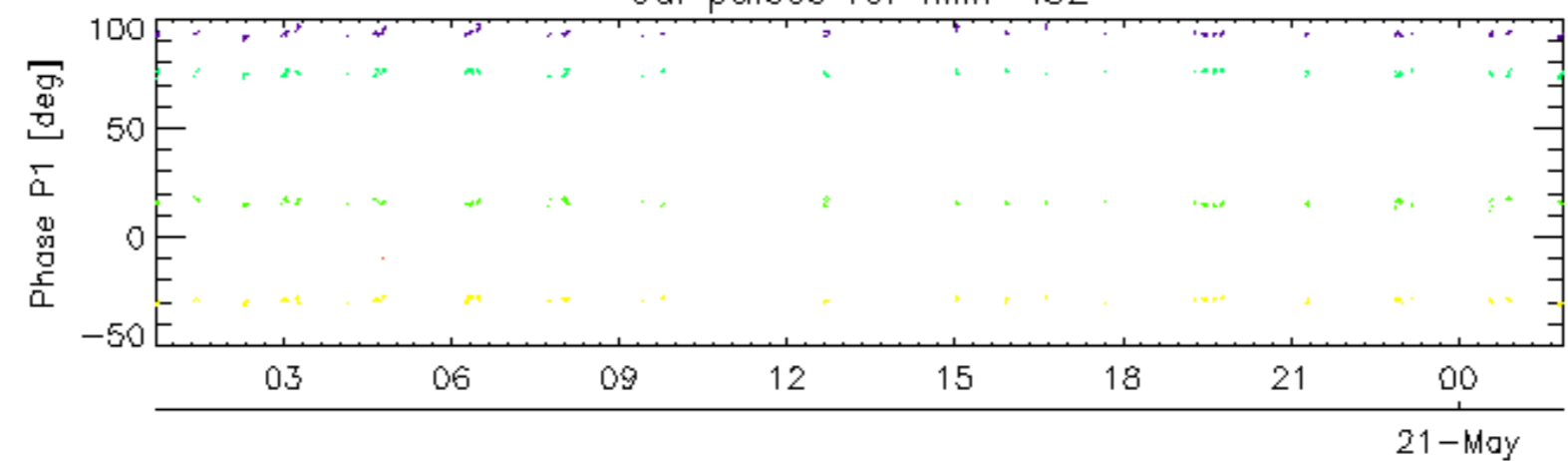


rows: **3** **7** **11** **15** **19** **22** **26** **30** 21-May

Cal pulses for IMM IS2



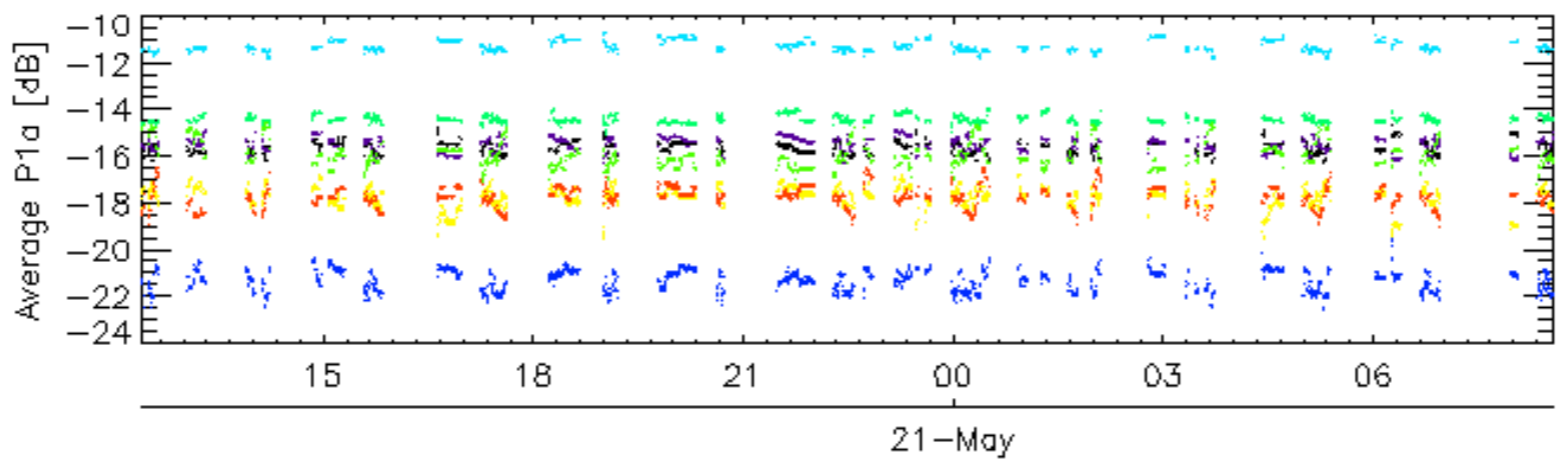
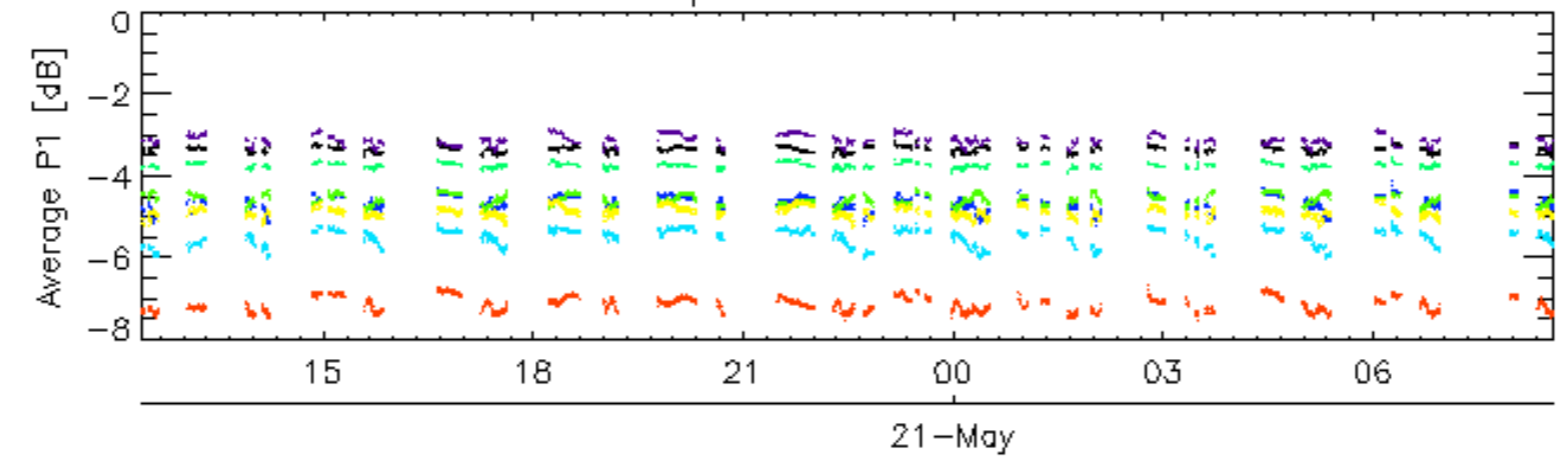
Cal pulses for IMM IS2



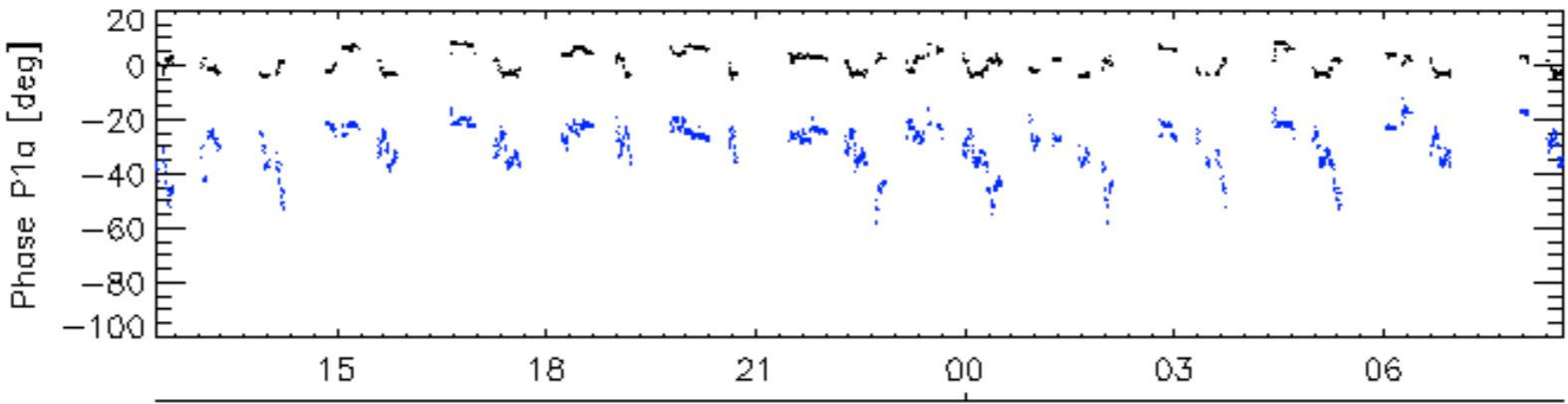
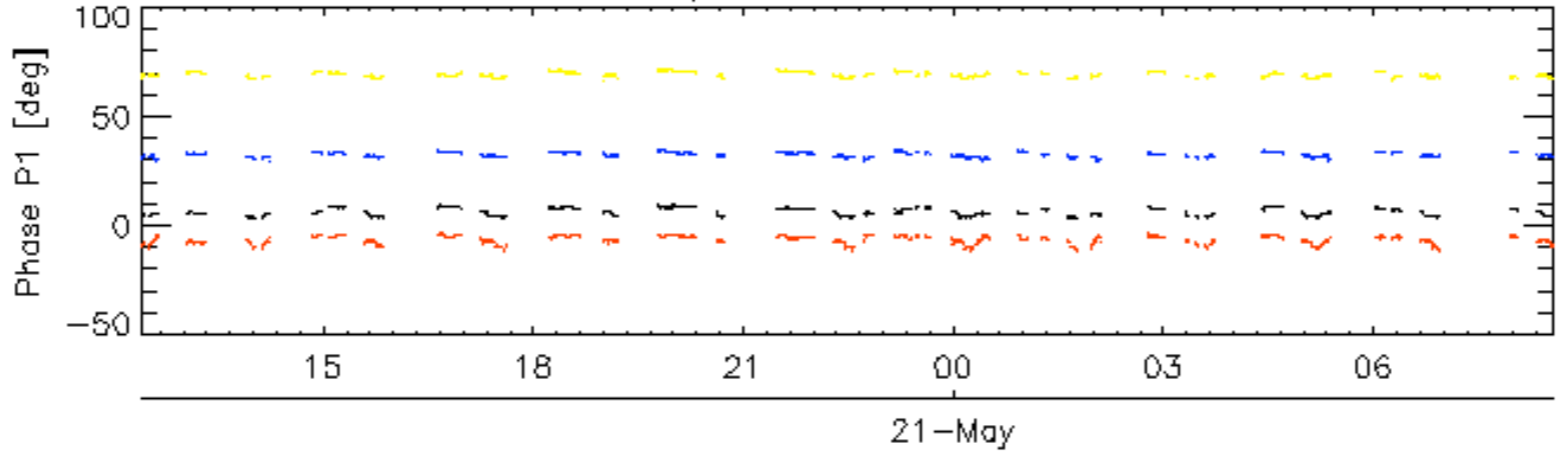
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21-May

Cal pulses for WVS IS2

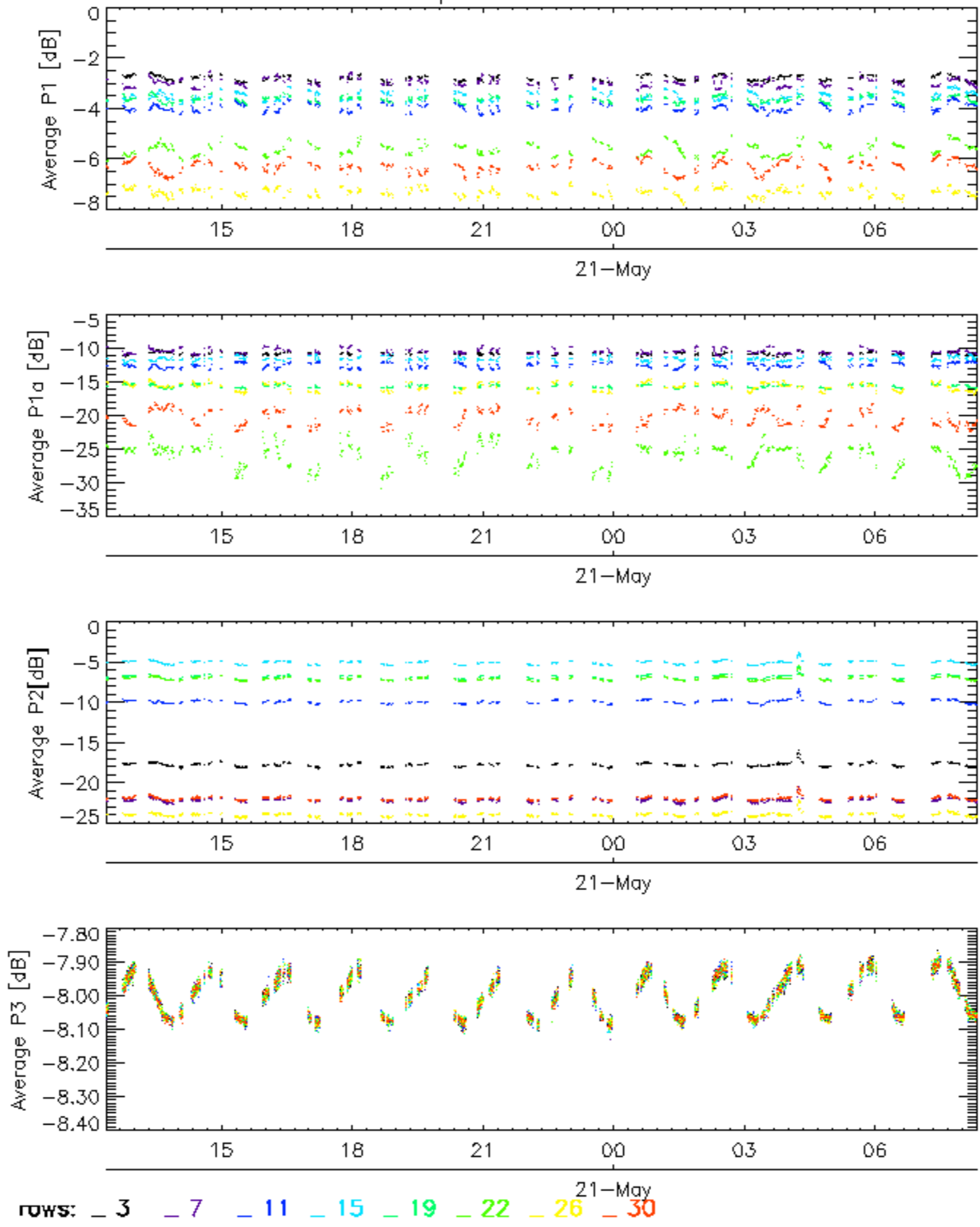


Cal pulses for WVS IS2

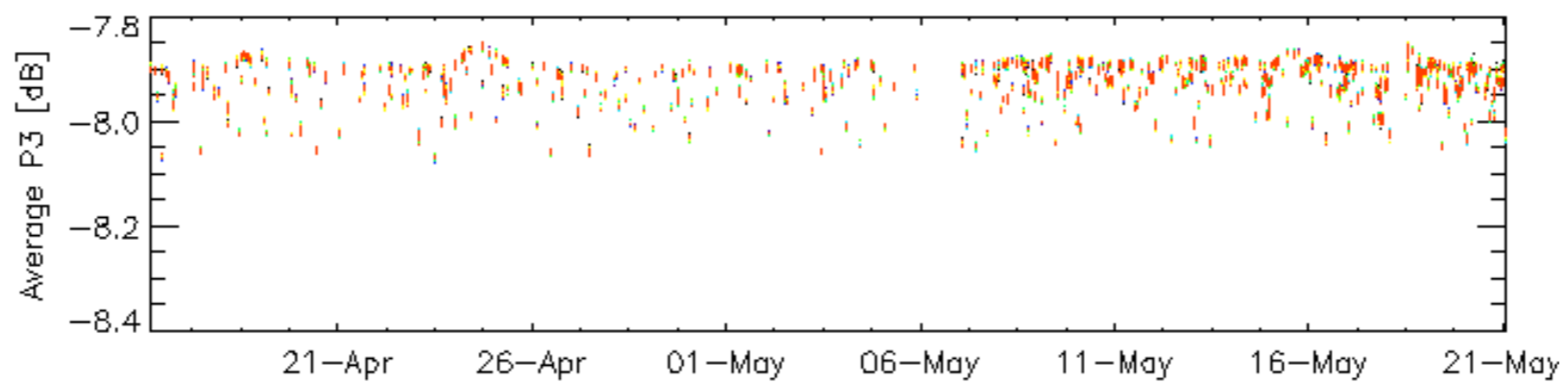
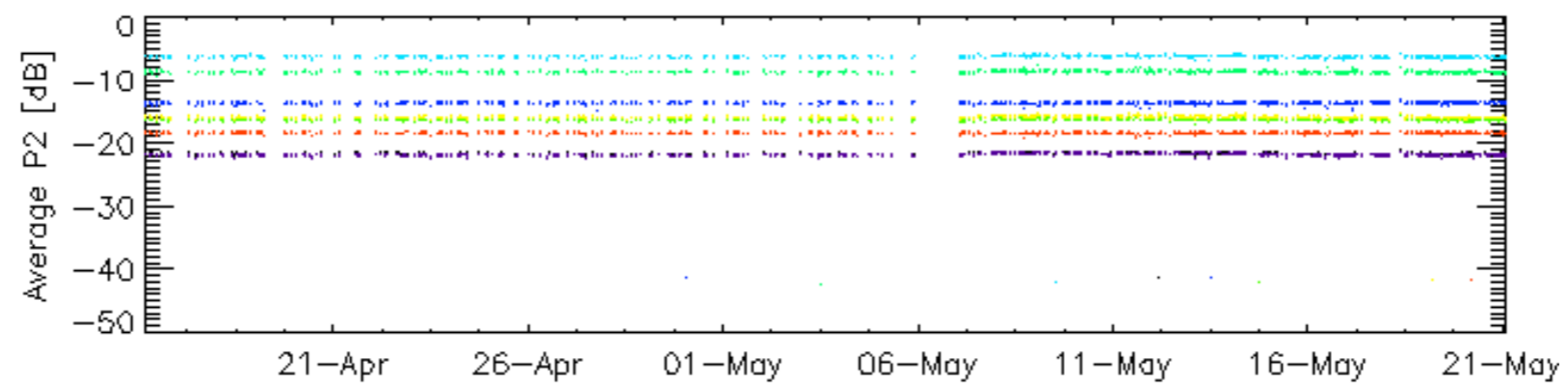
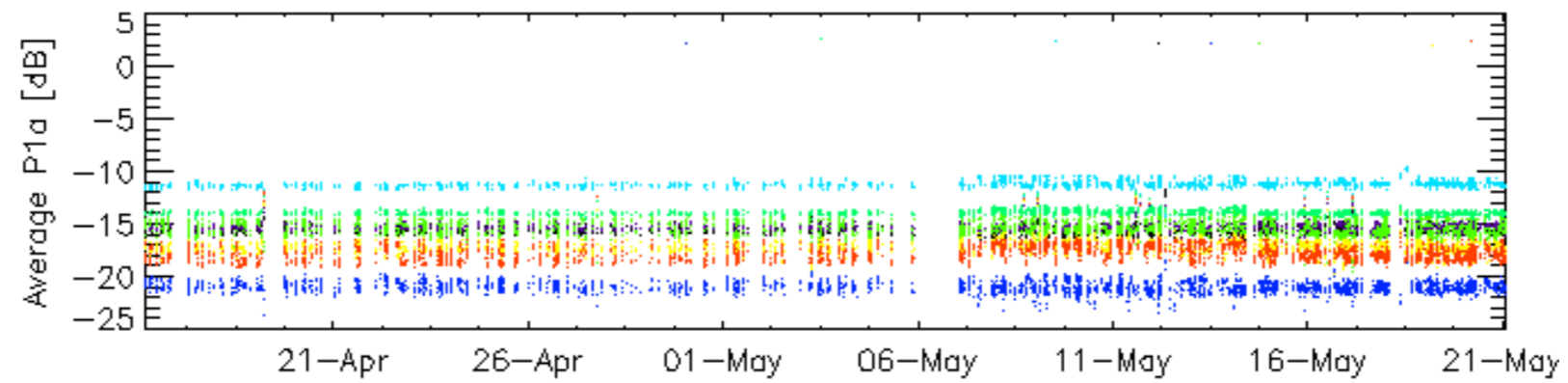
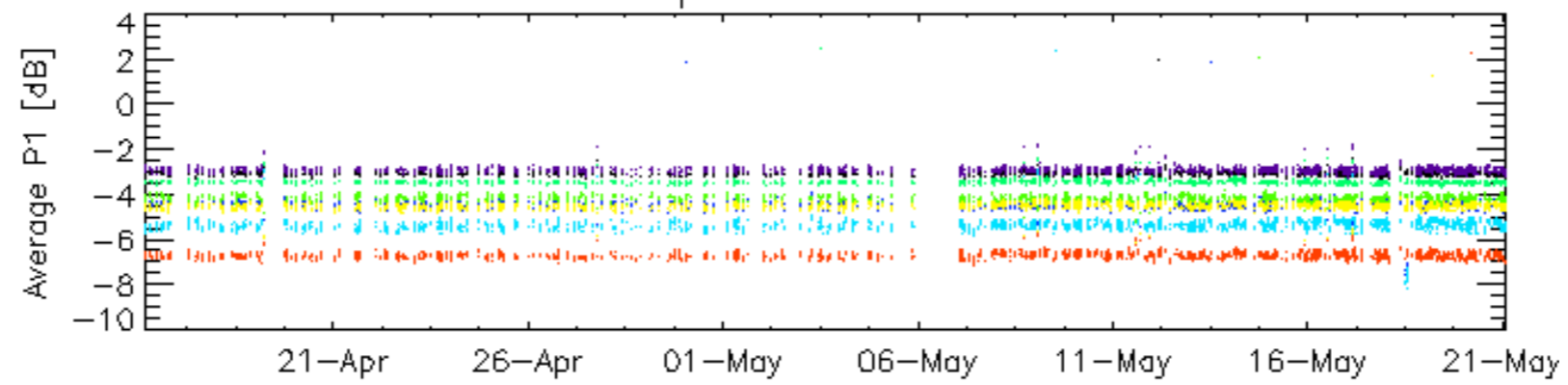


rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

Cal pulses for GM1 SS3

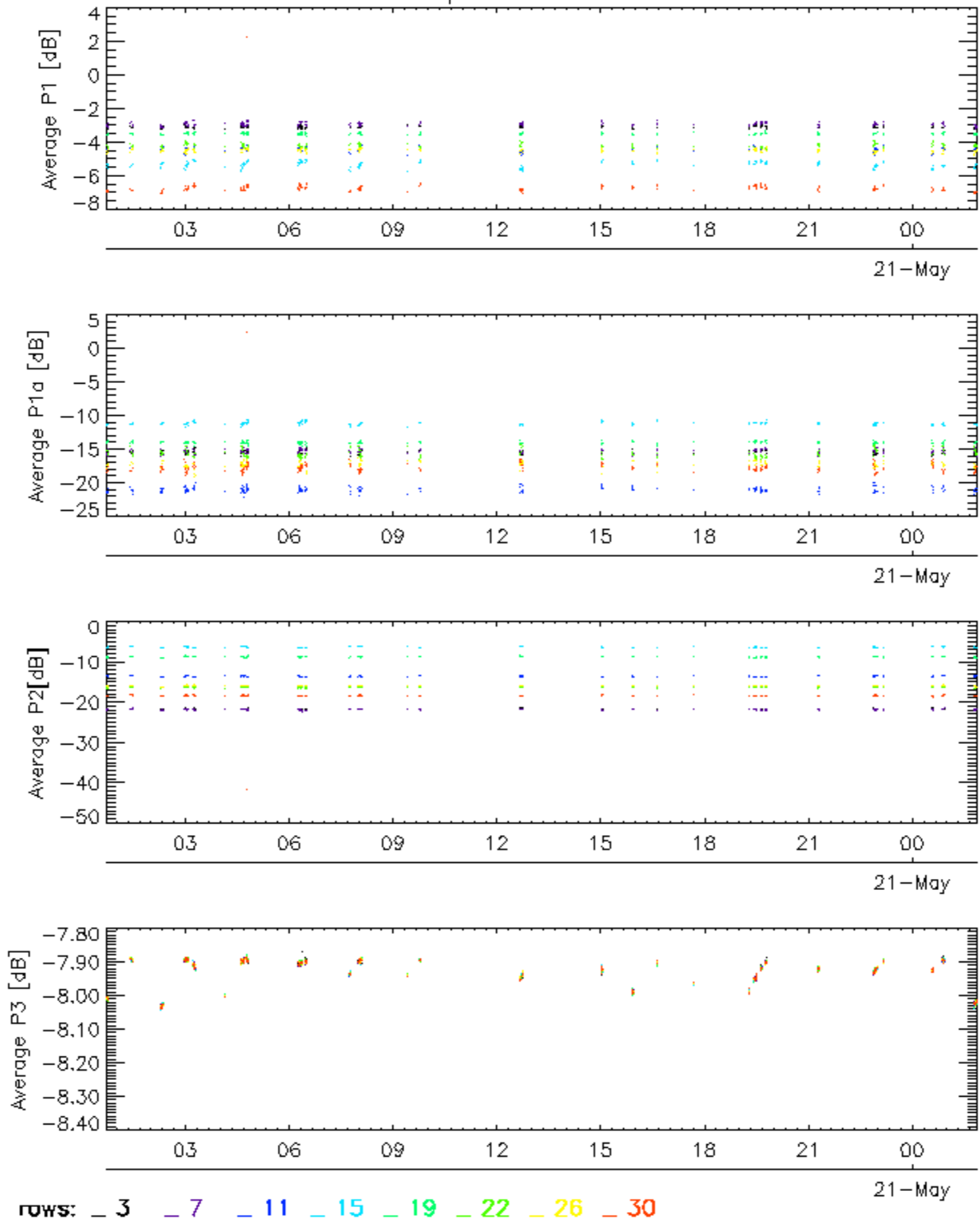


Cal pulses for IMM IS2

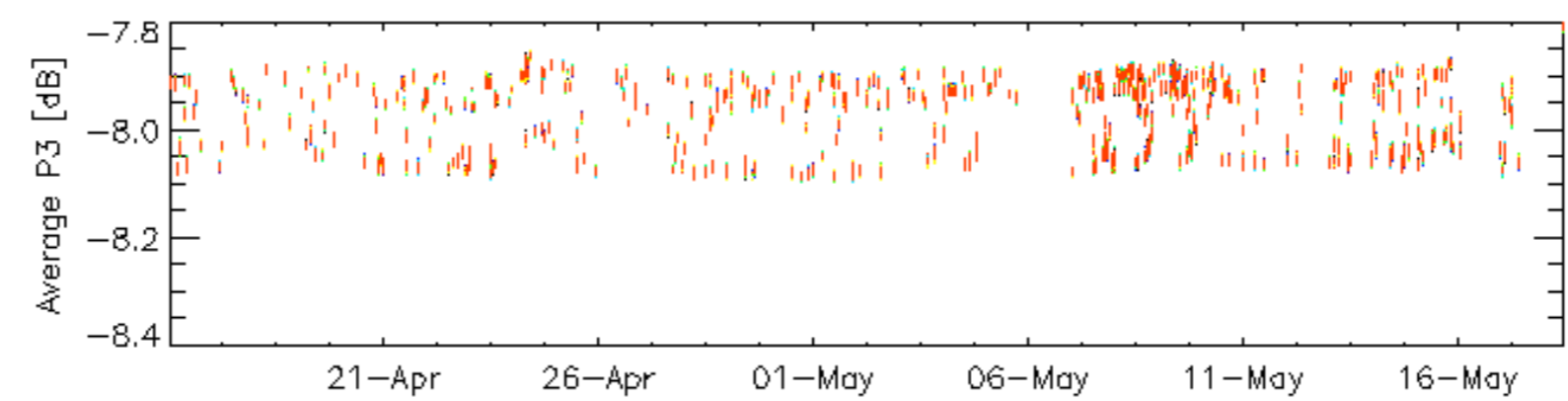
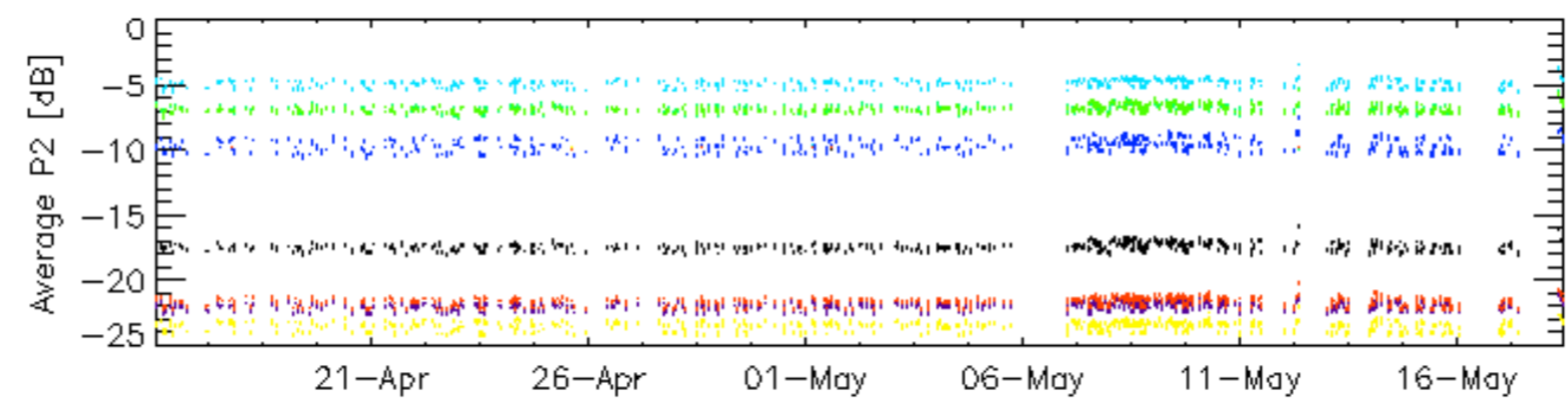
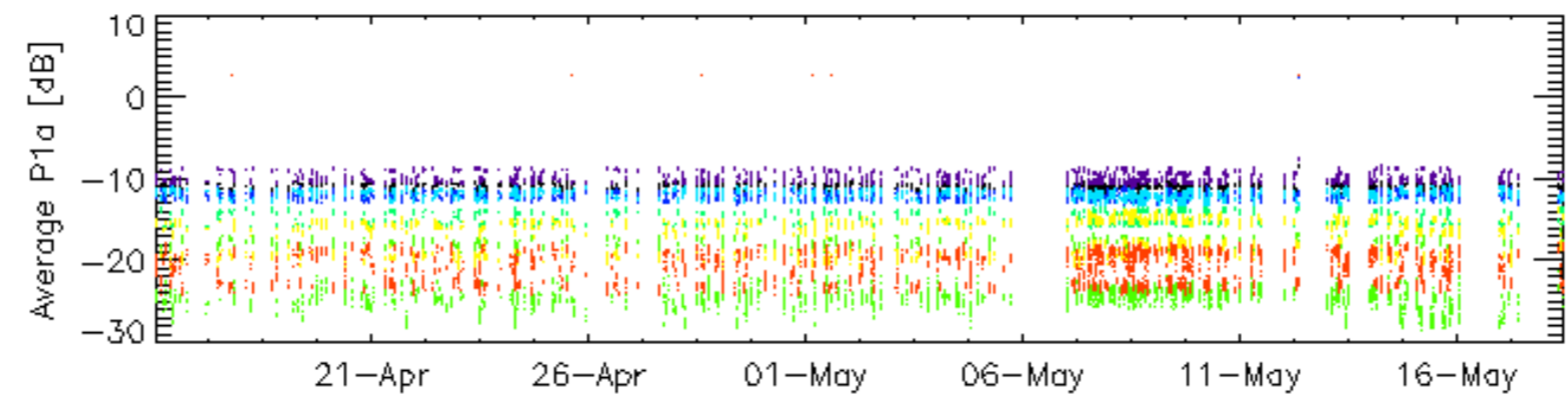
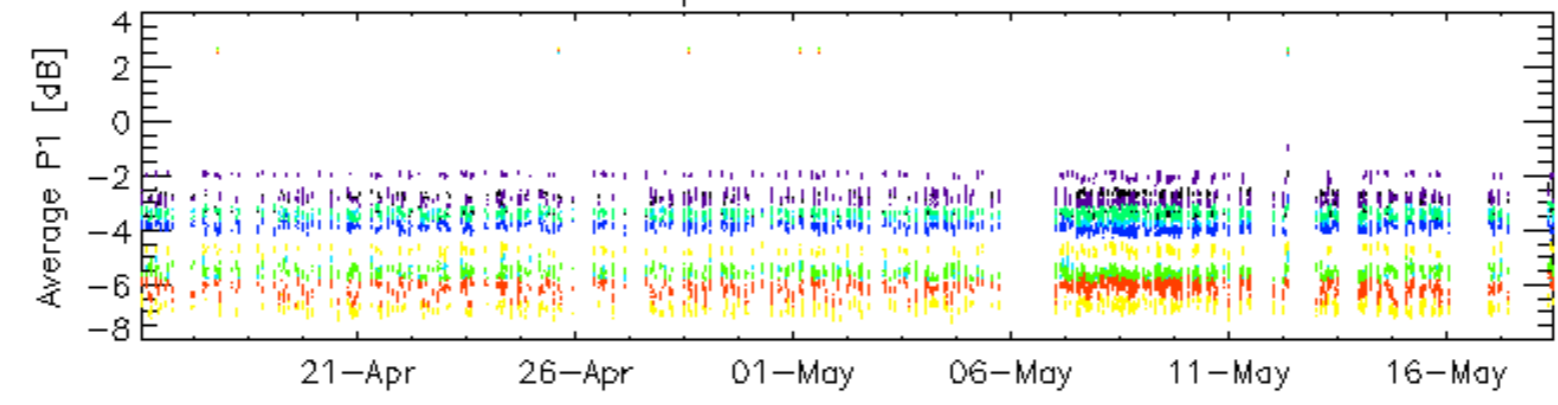


rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

Cal pulses for IMM IS2

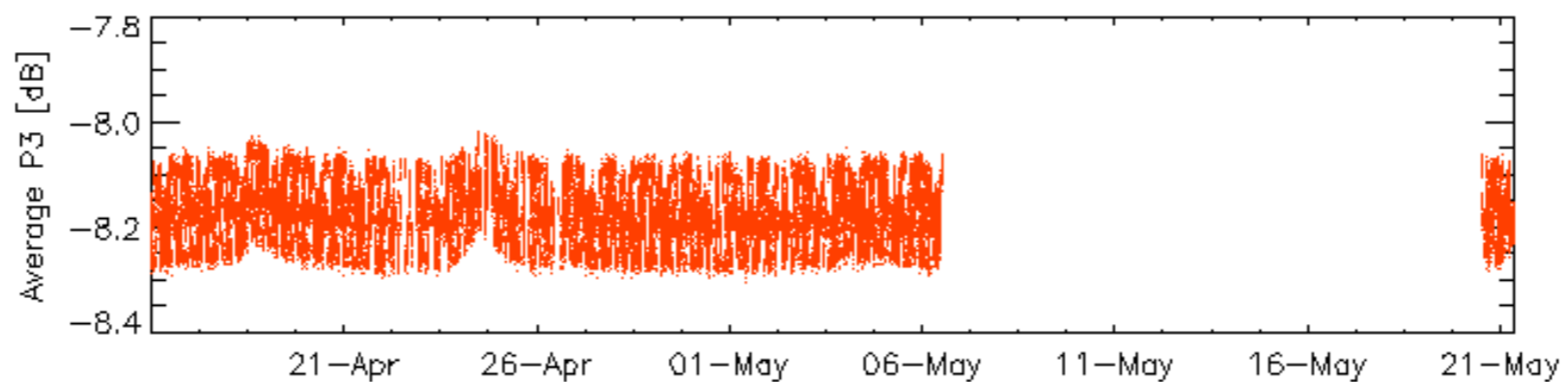
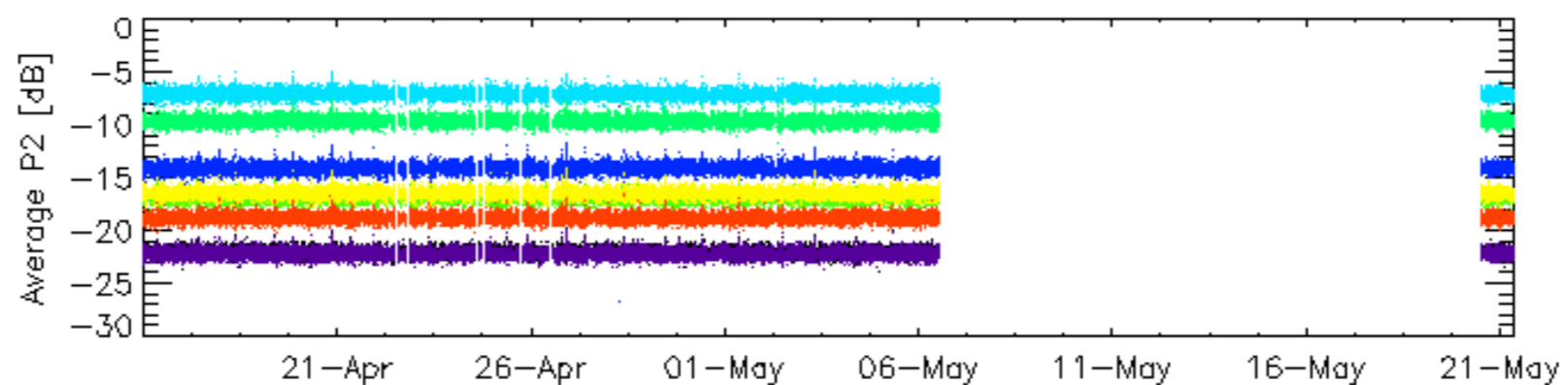
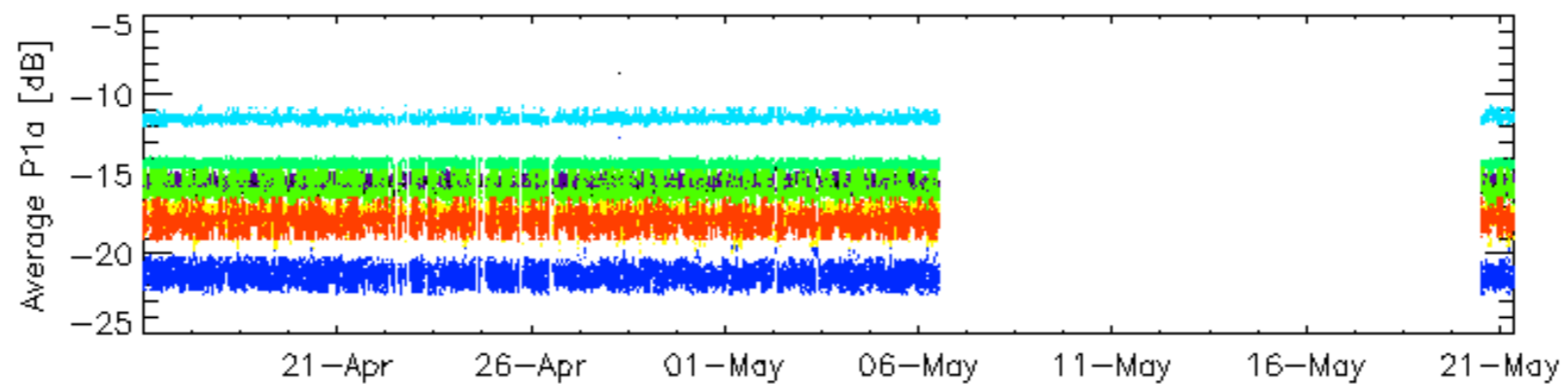
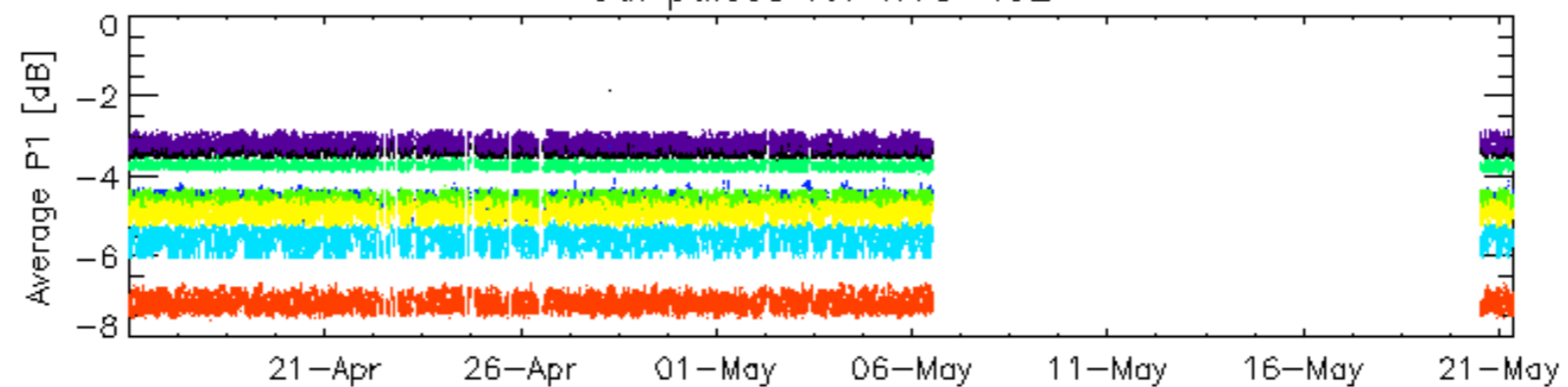


Cal pulses for WSM SS3



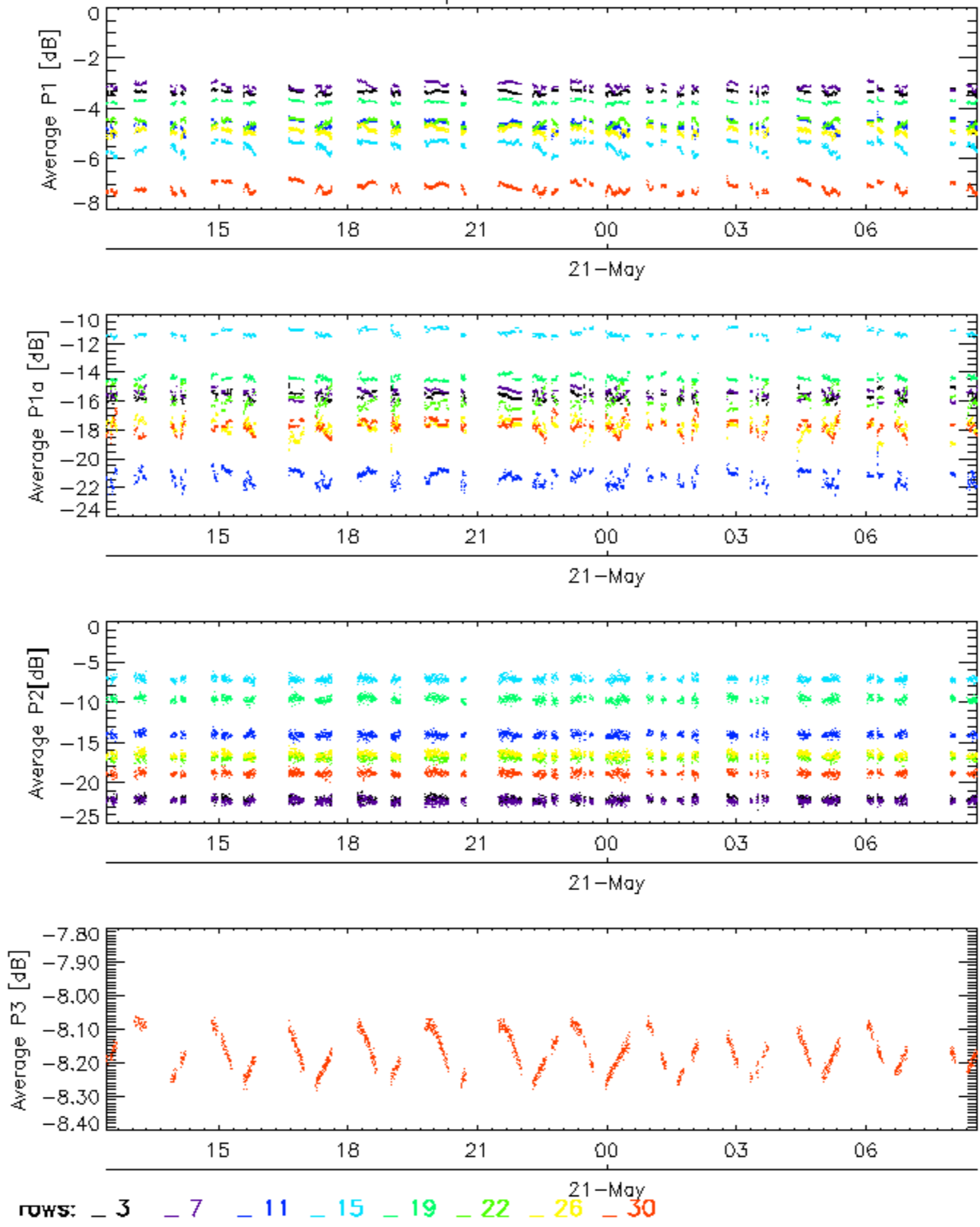
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

Cal pulses for WVS IS2



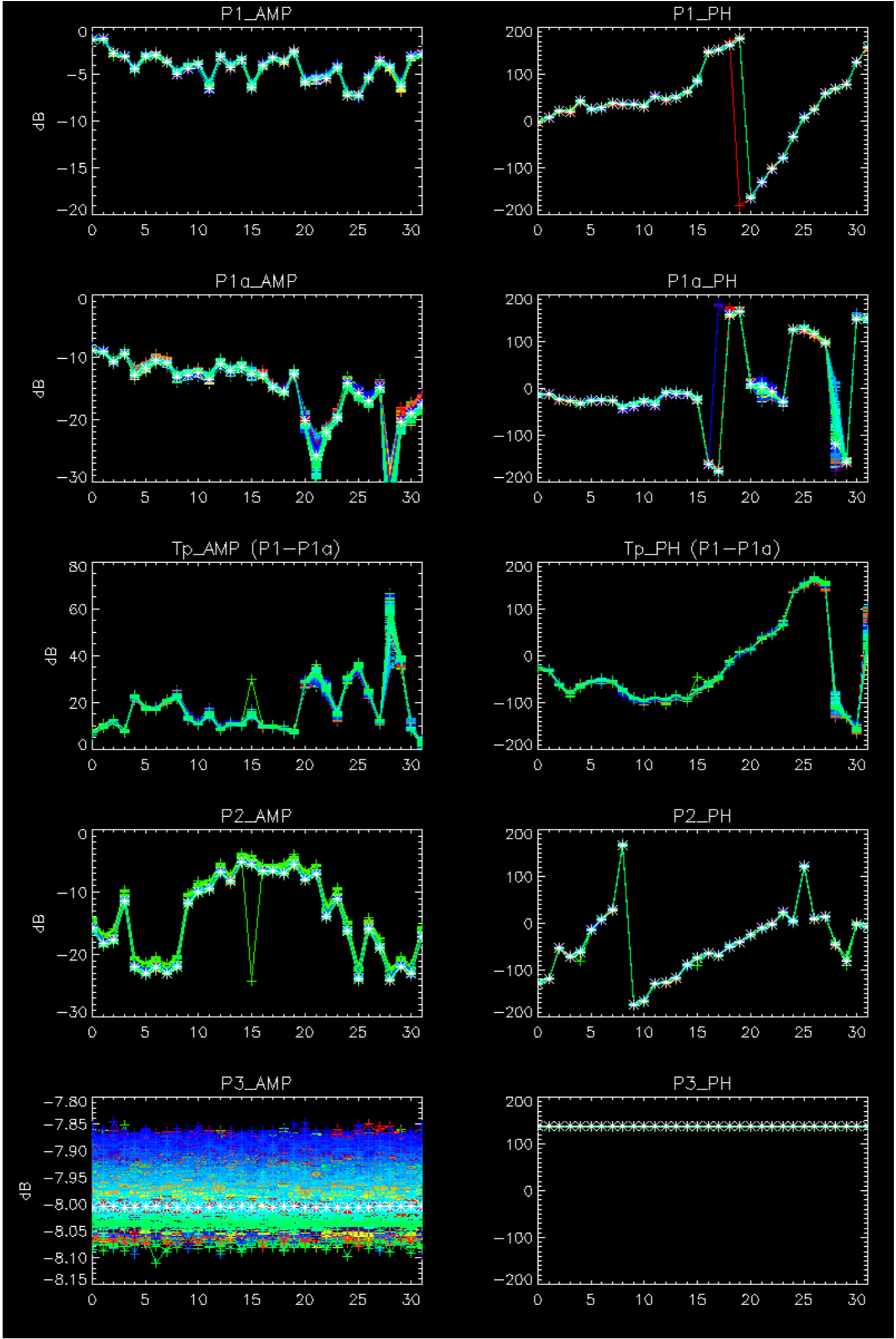
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

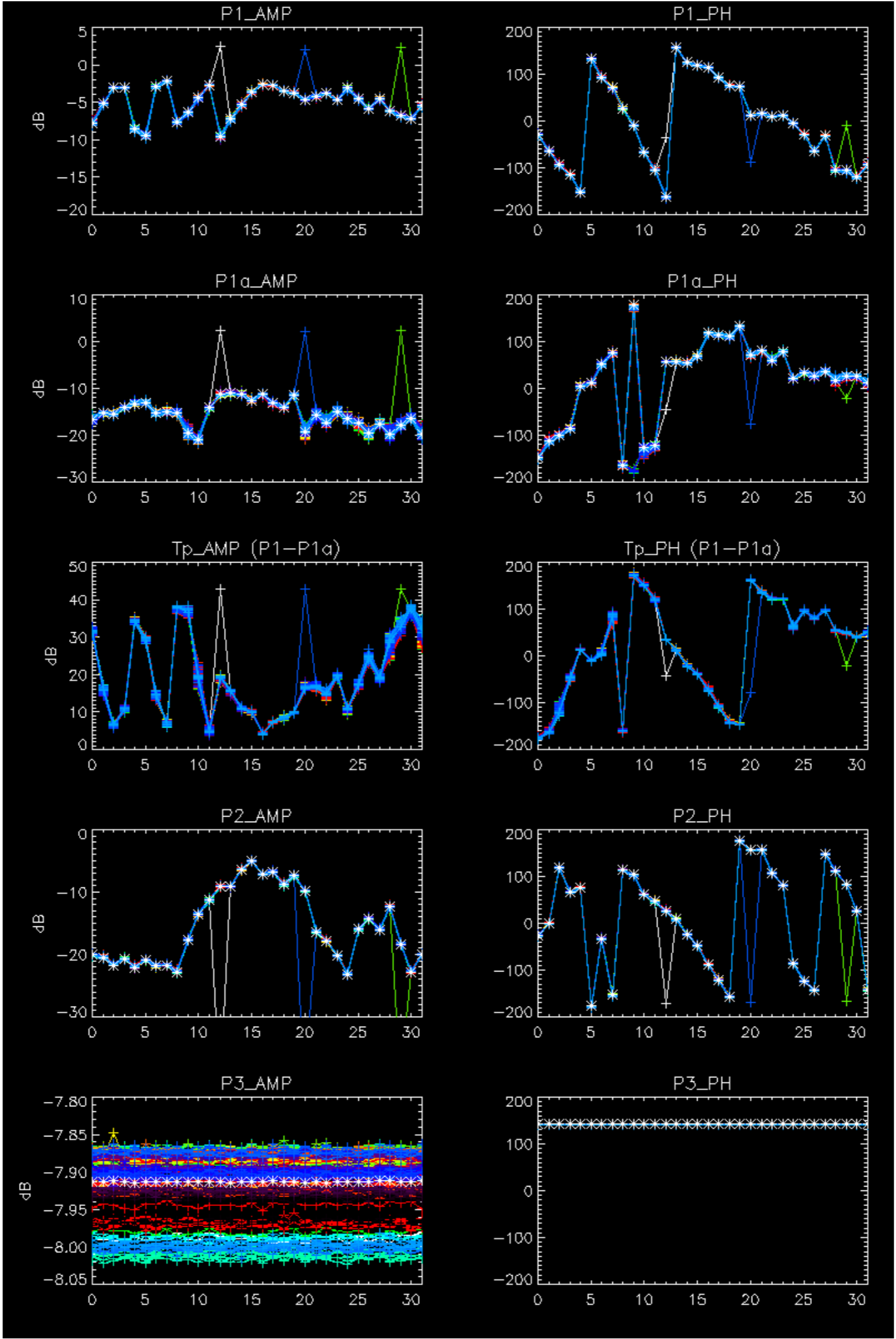
Cal pulses for WVS IS2

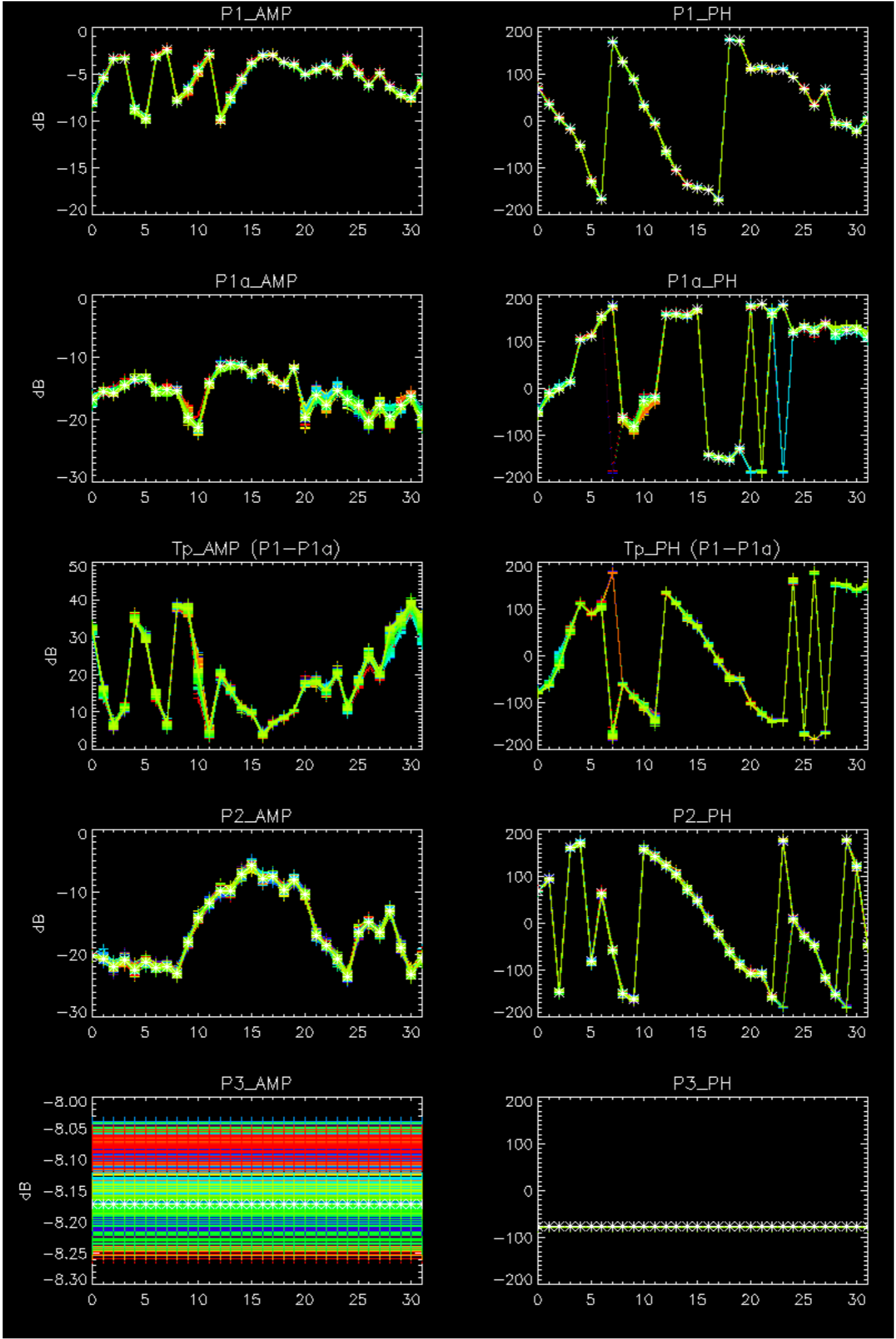


-Preliminary report.The data is not yet controled





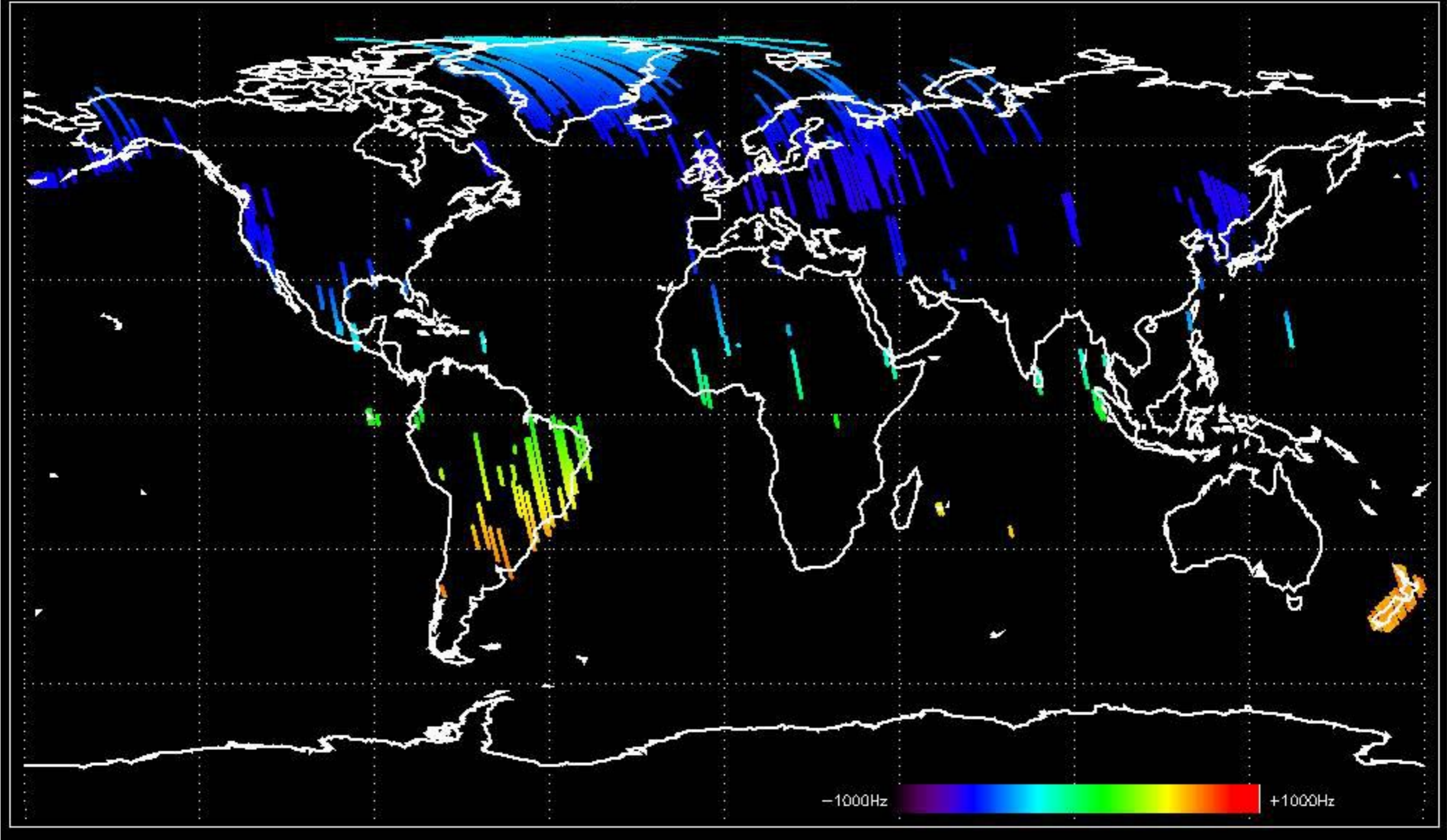




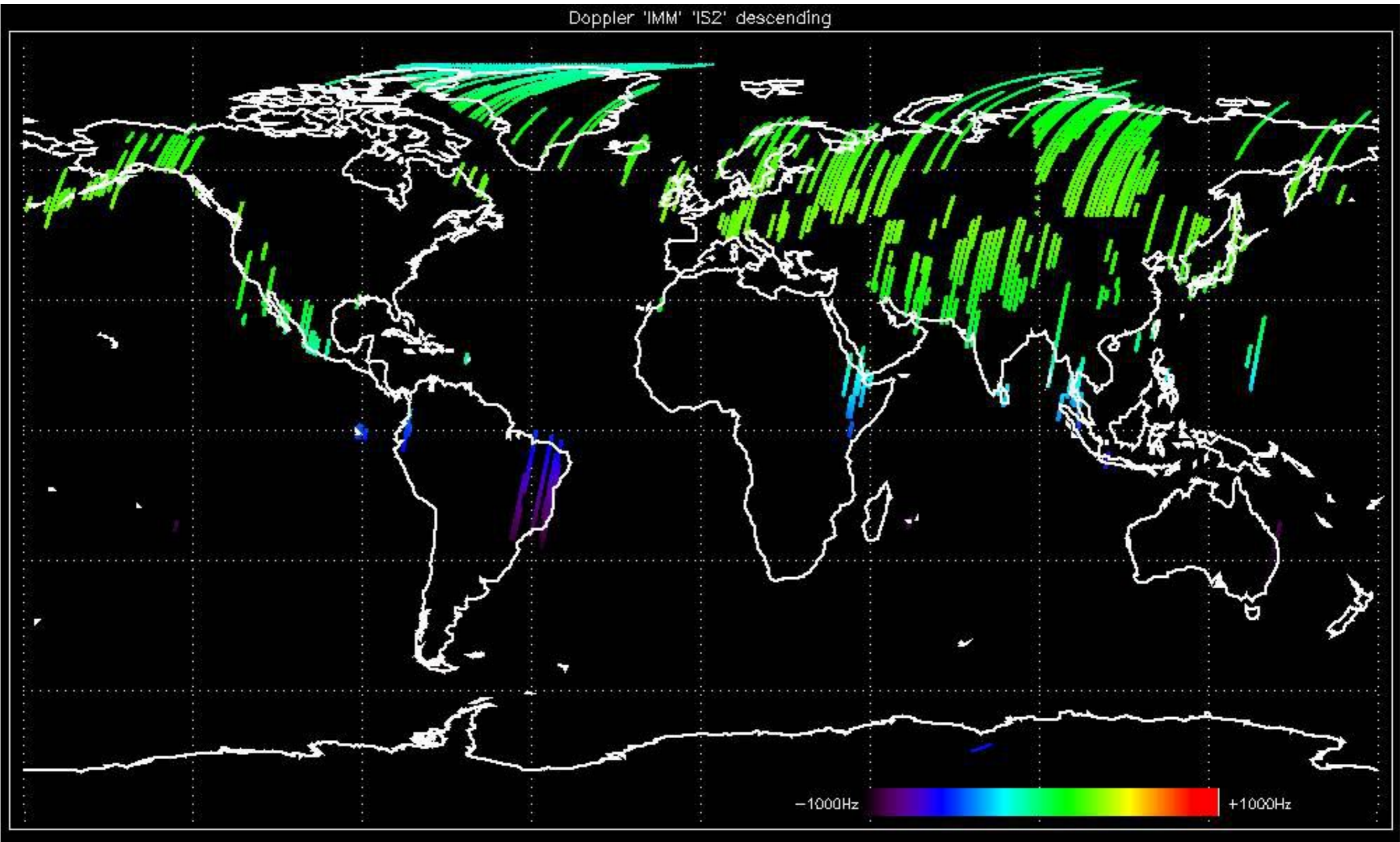
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

No anomalies observed Doppler evolution.
Doppler analysis performed over the last 35 days

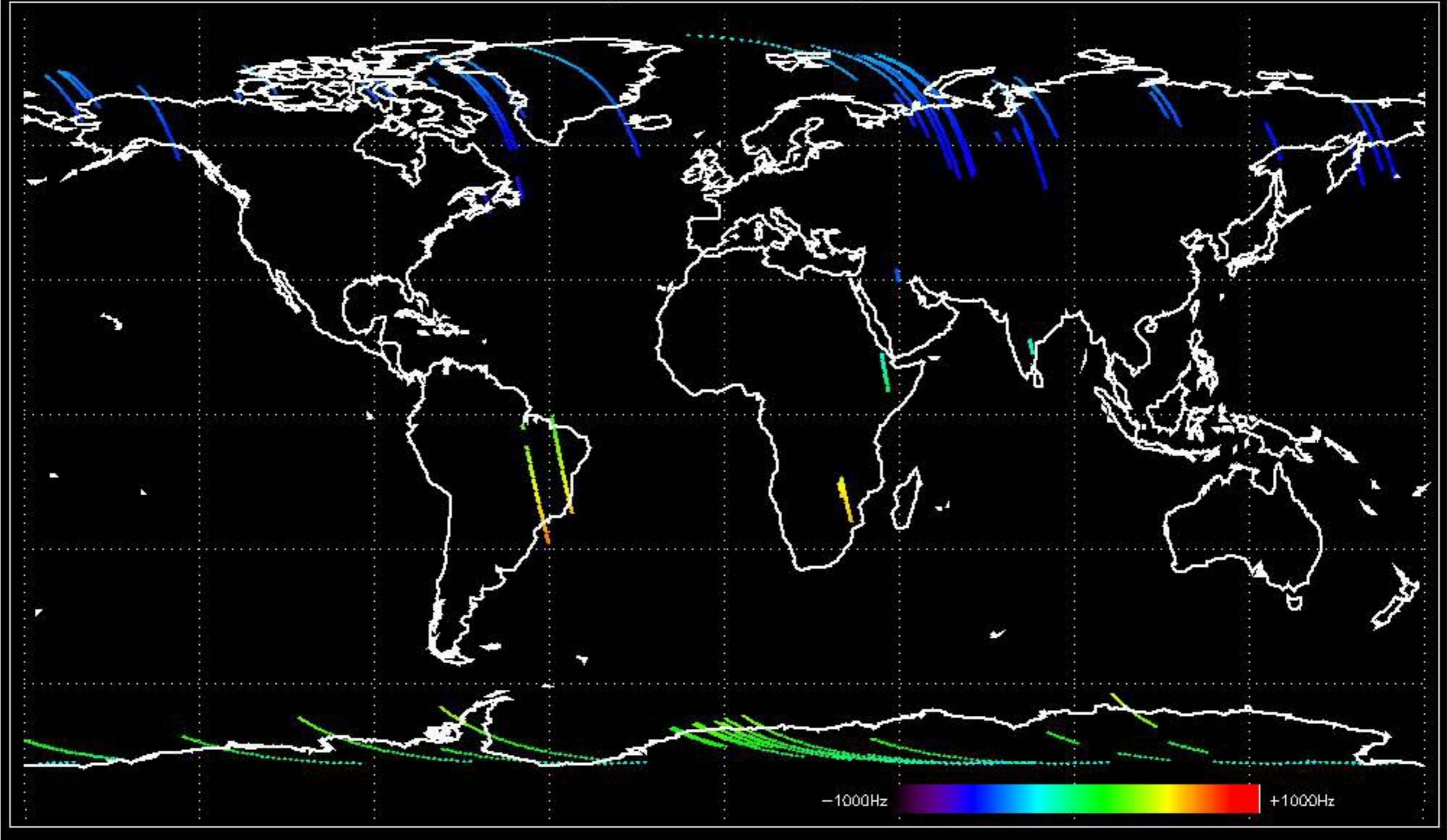
Doppler 'IMM' 'IS2' ascending



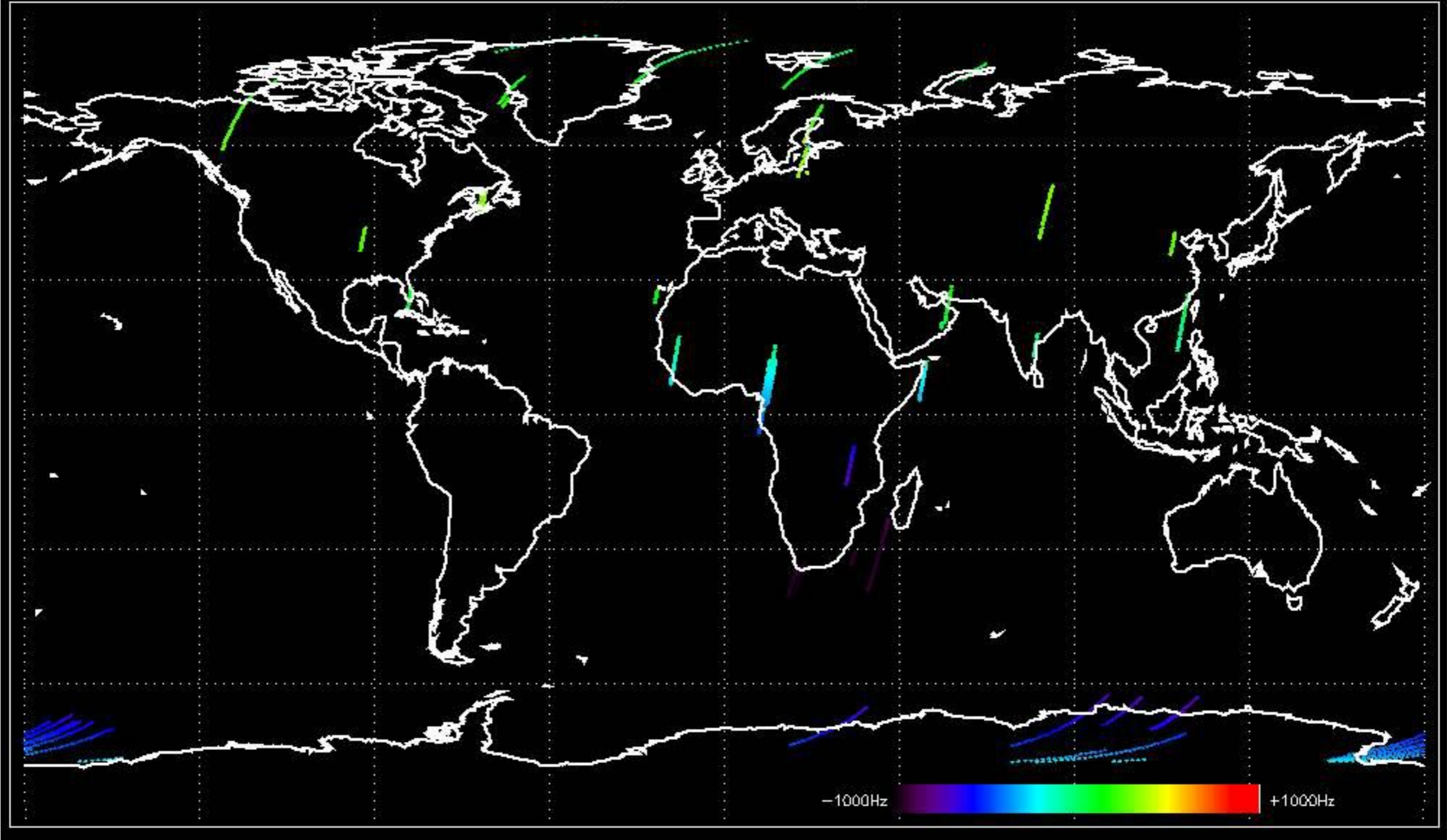
Doppler 'IMM' 'IS2' descending



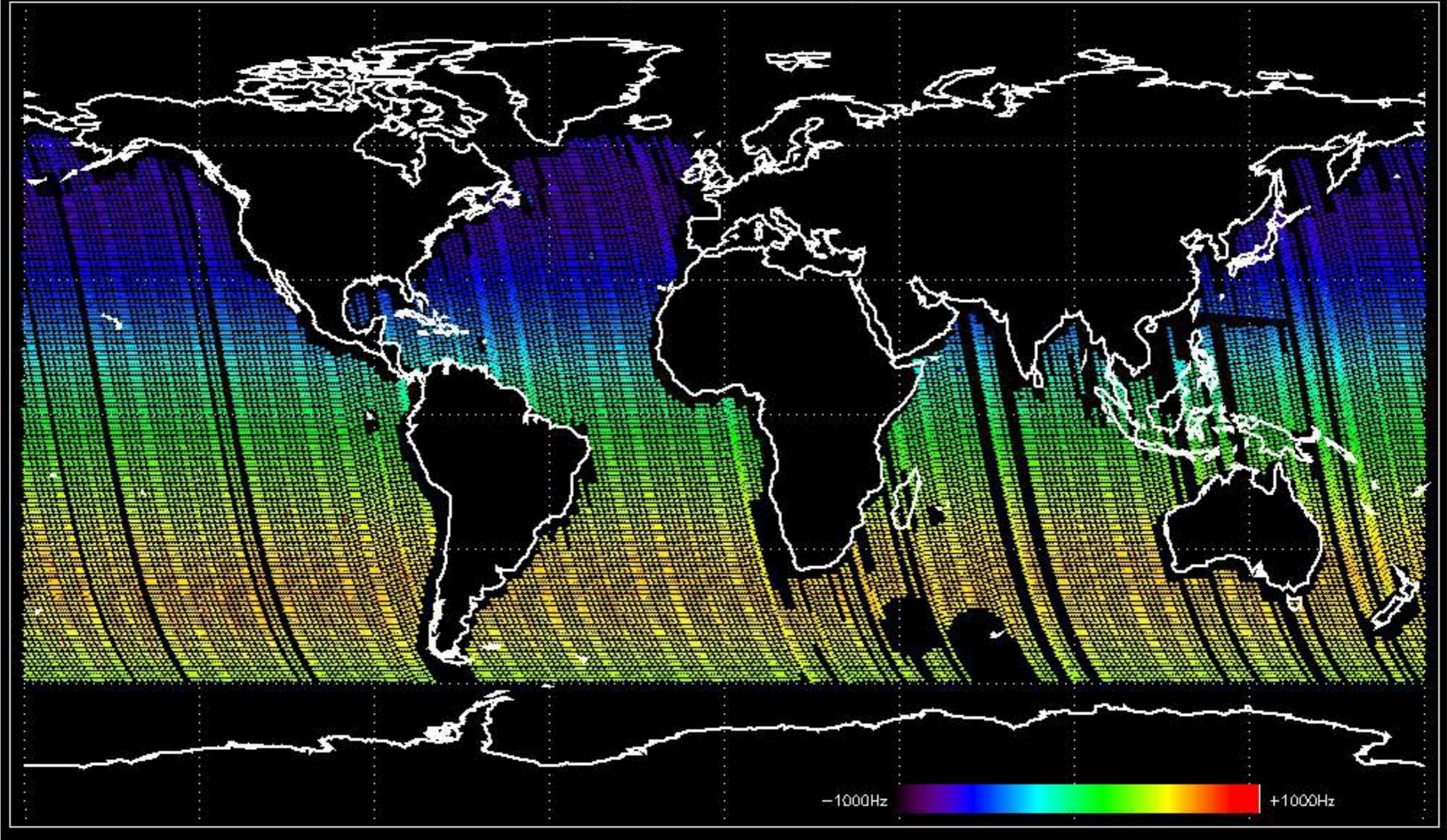
Doppler 'WSM' 'SS1' ascending

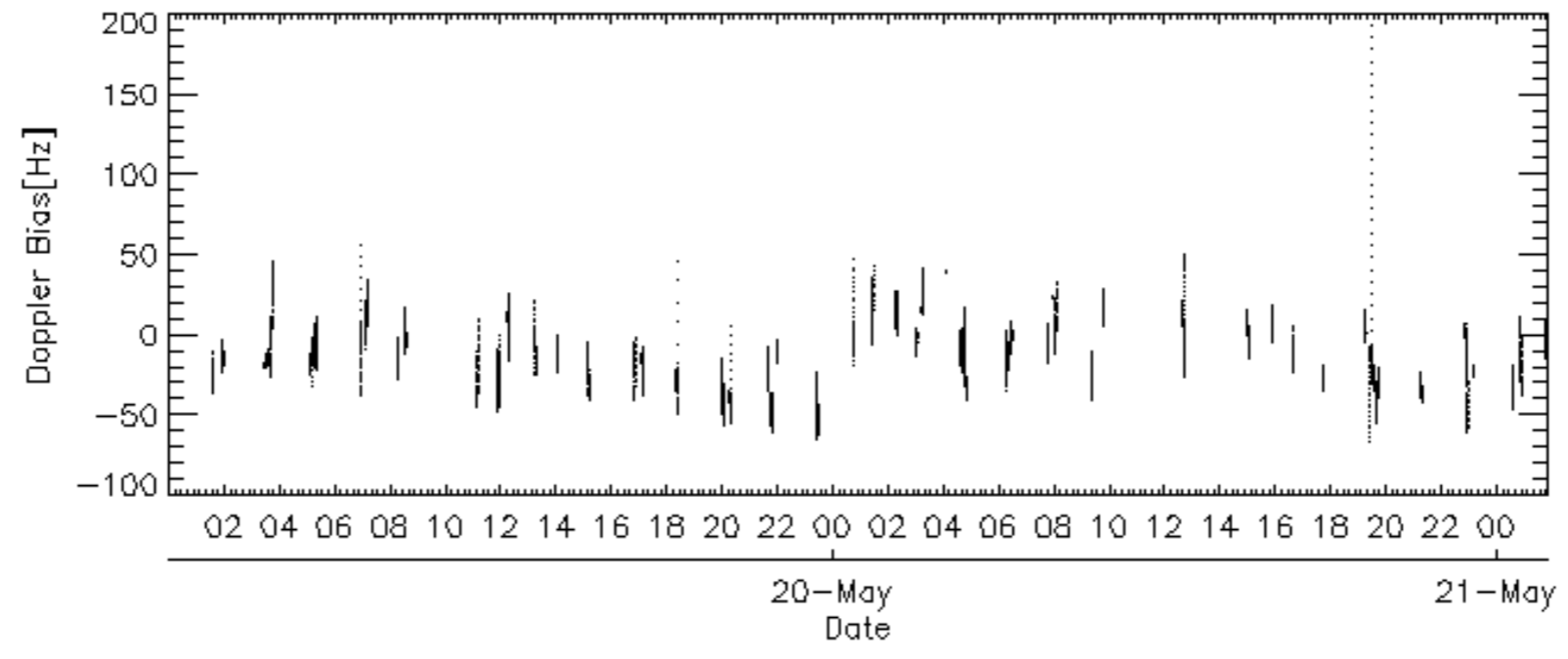
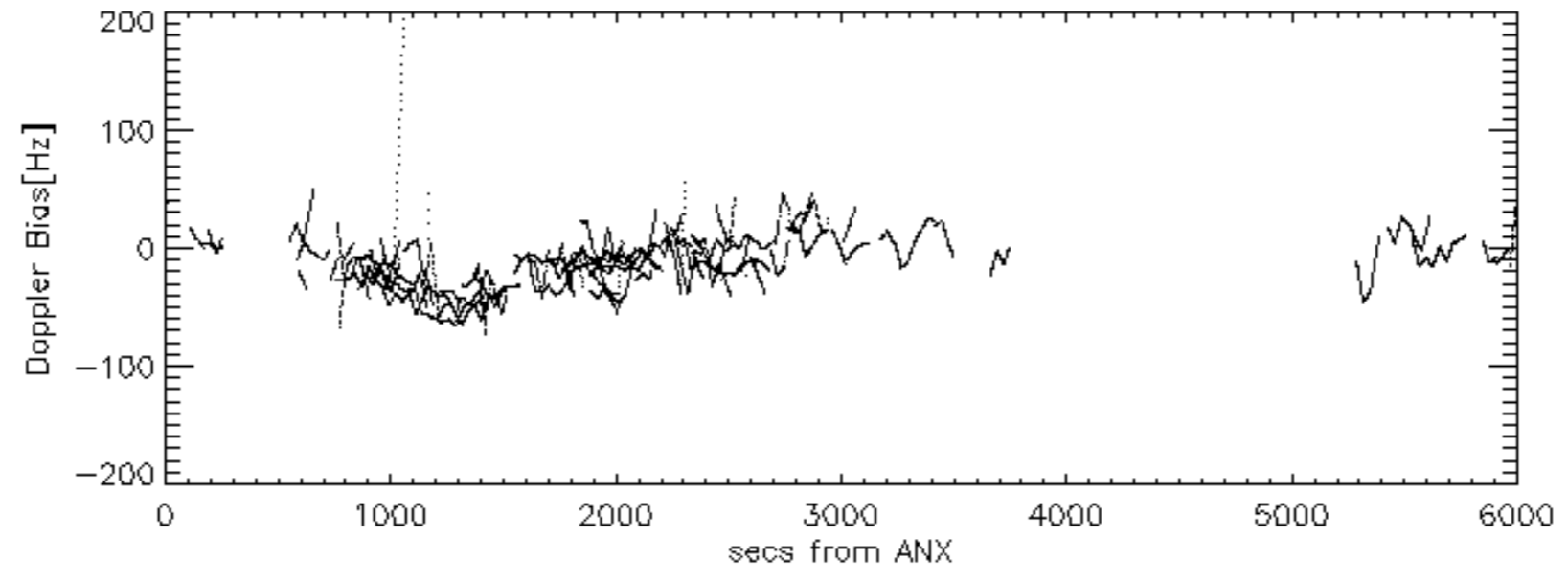
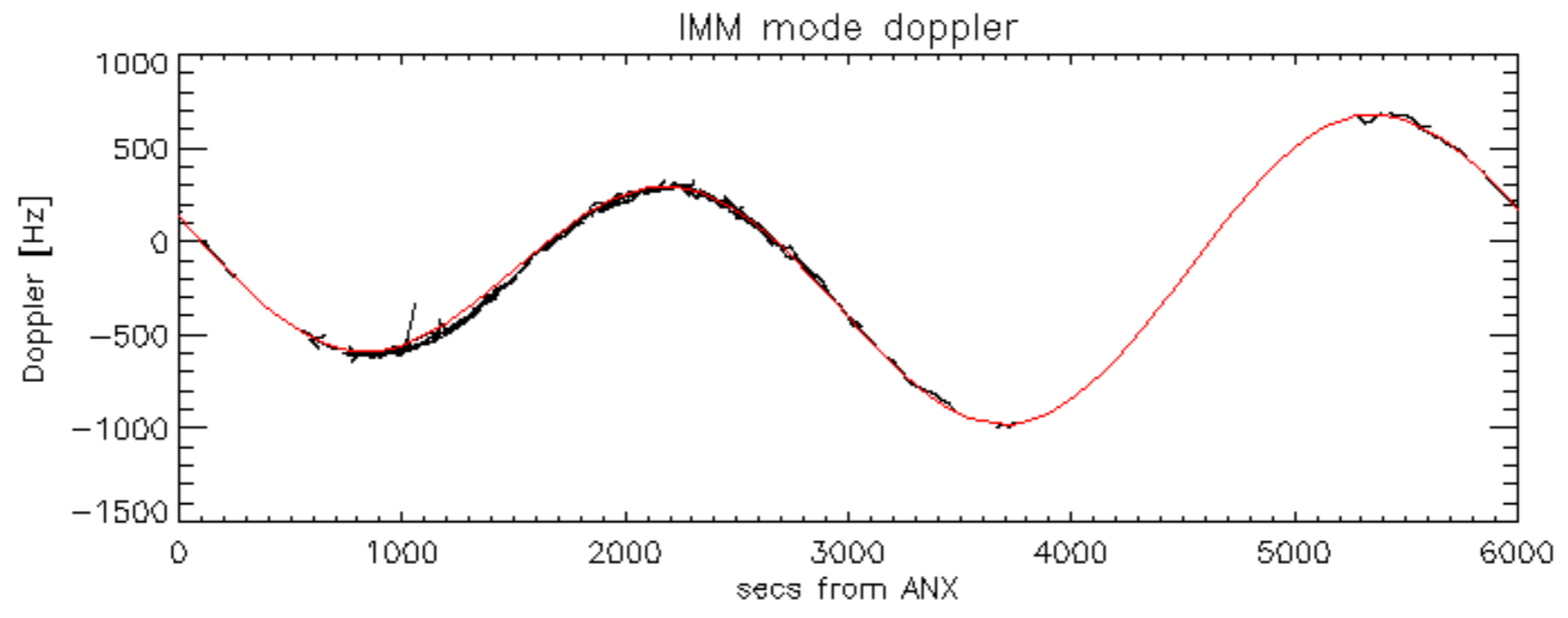


Doppler 'WSM' 'SS1' descending

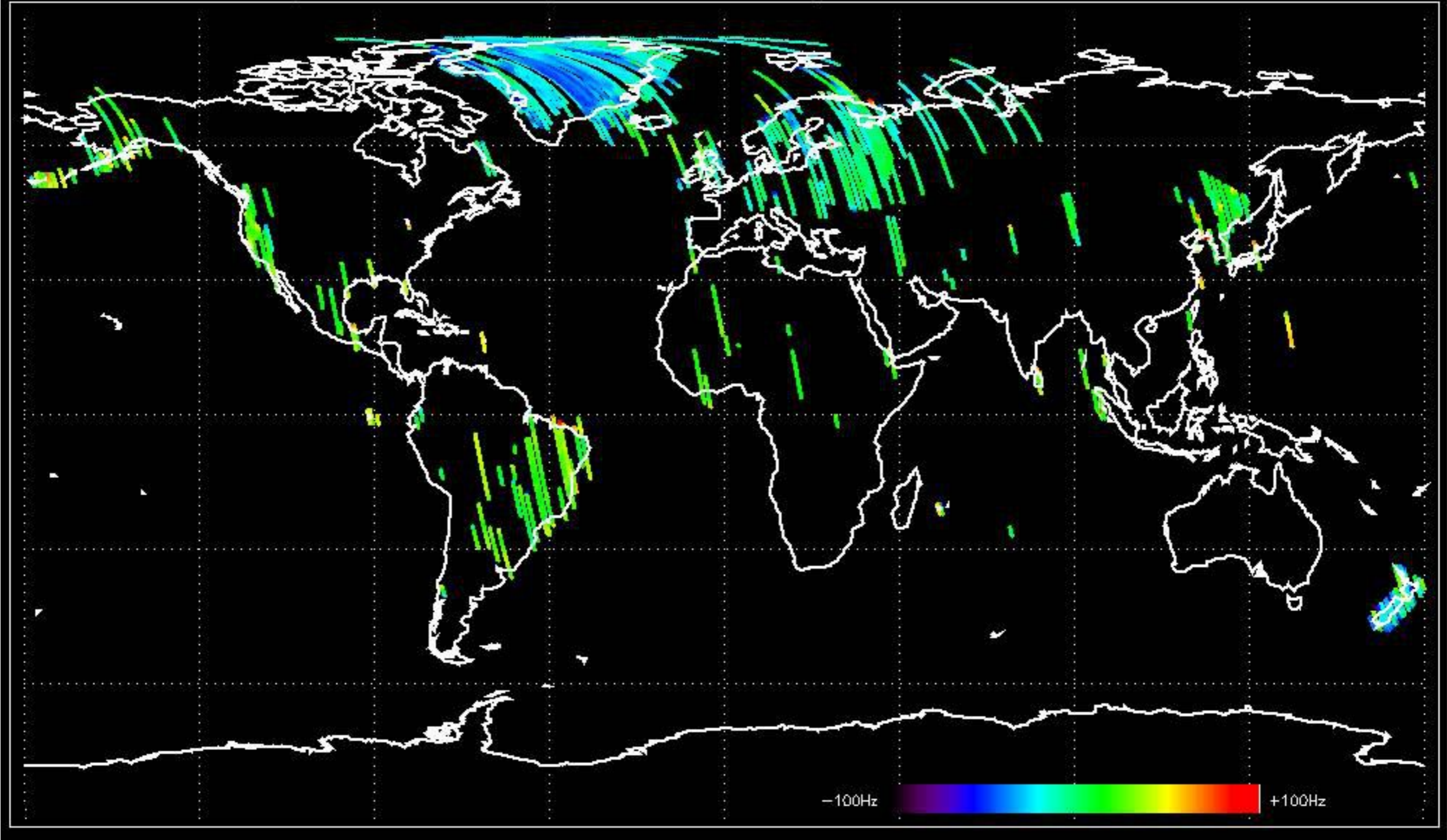


Doppler 'WVS' 'IS2' ascending

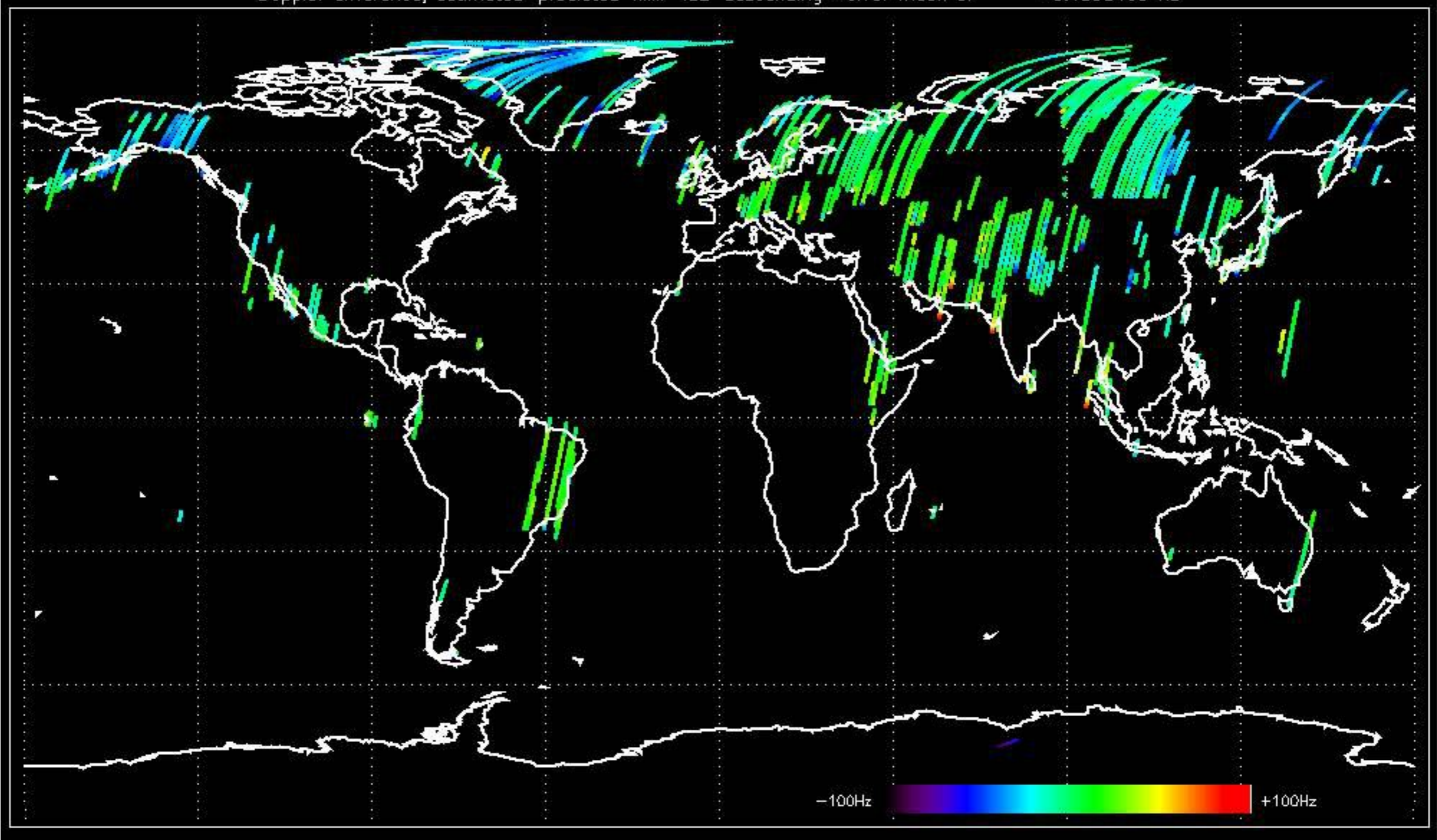




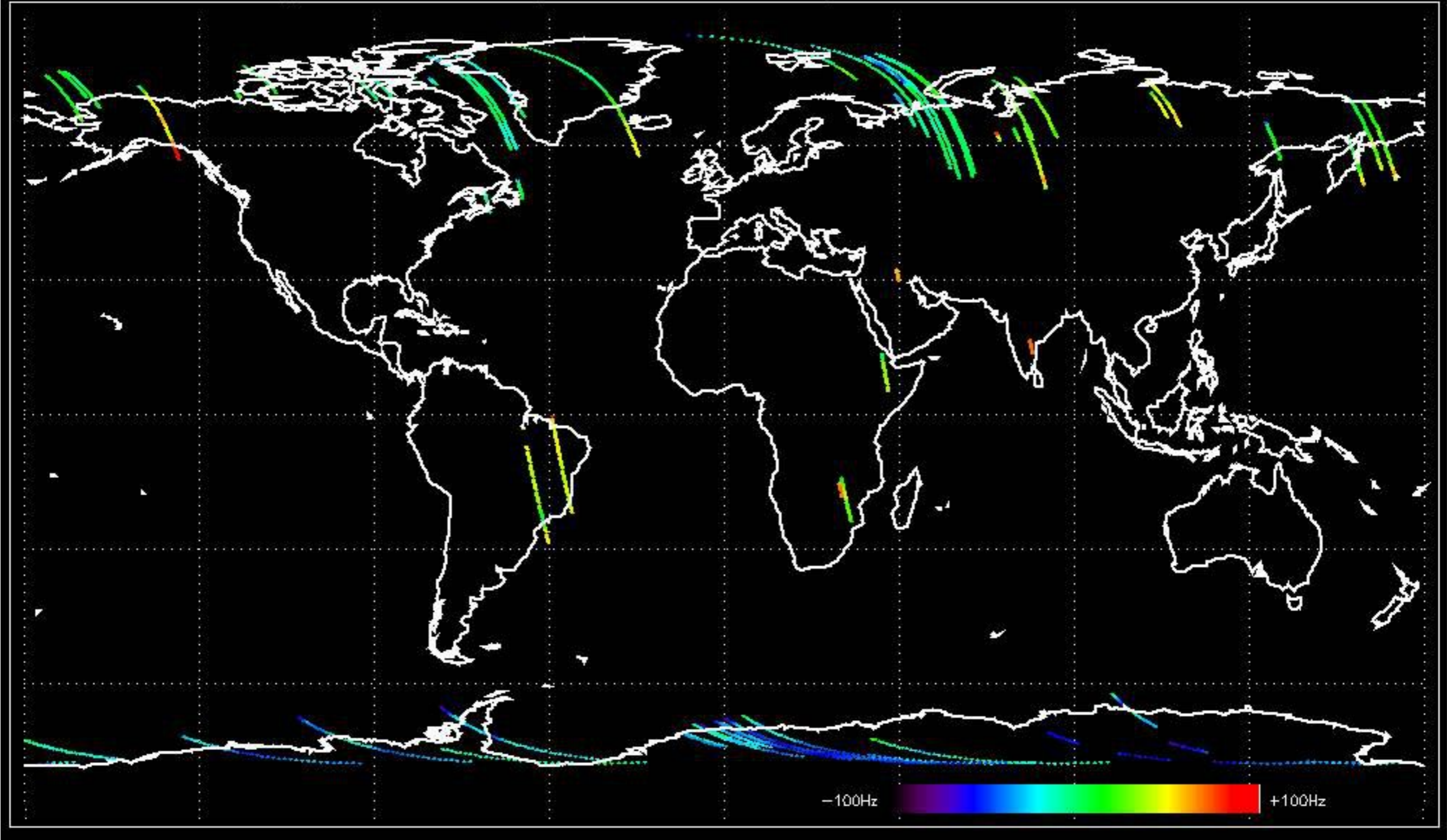
Doppler difference, estimated-predicted 'IMM' 'IS2' ascending -error mean of -16.495549 Hz



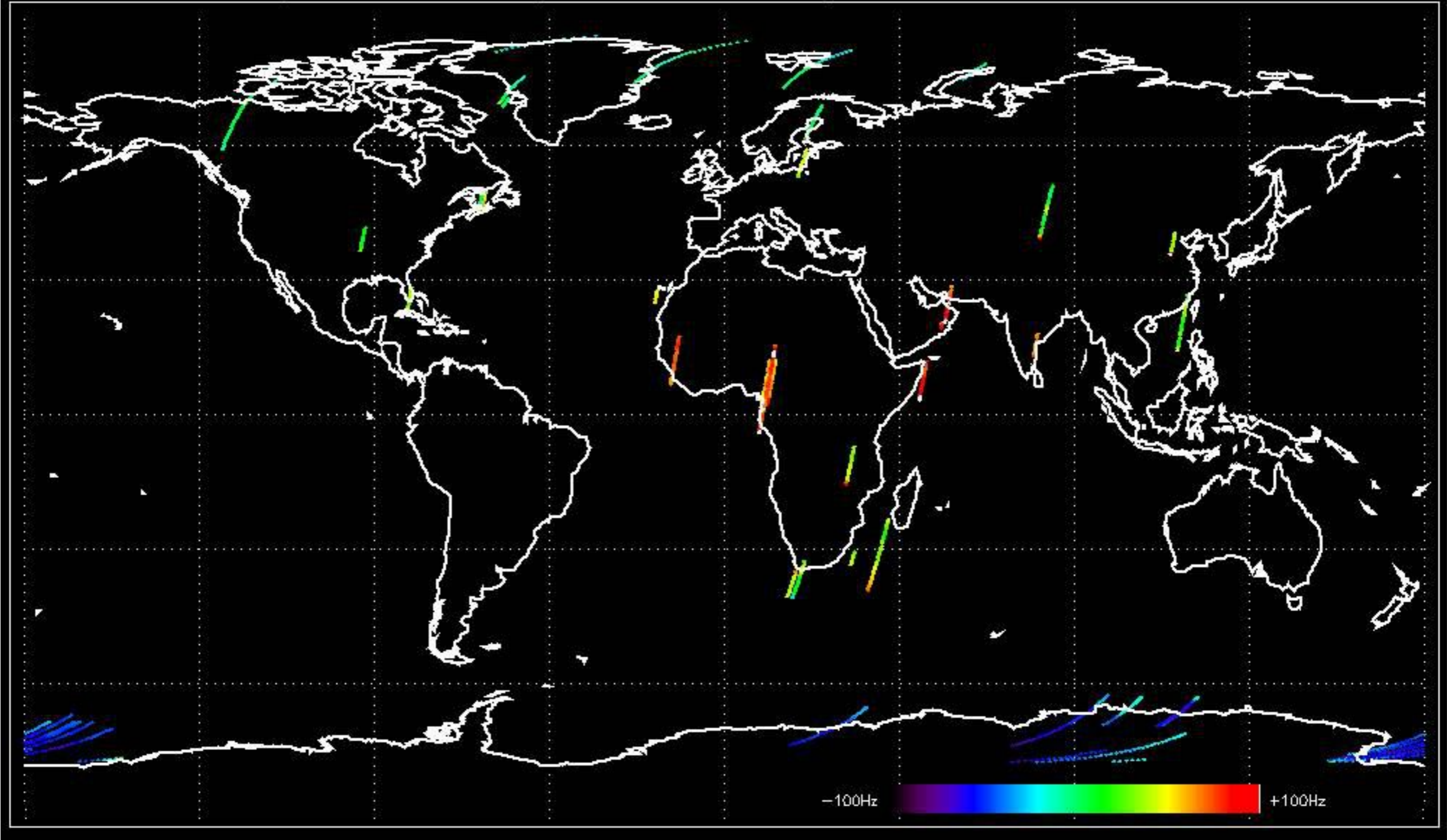
Doppler difference, estimated-predicted 'IMM' 'IS2' descending -error mean of -6.4595460 Hz



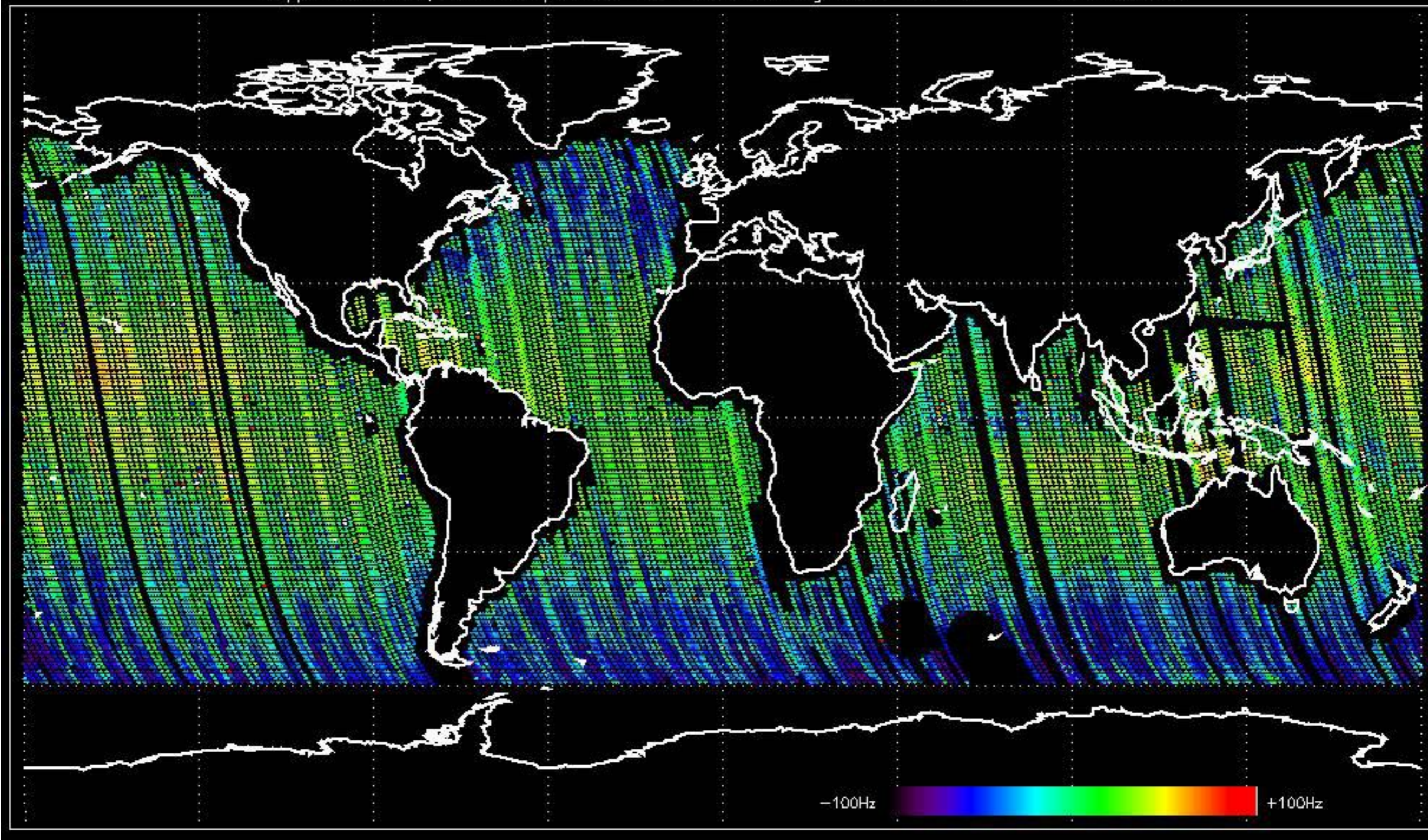
Doppler difference, estimated-predicted 'WSM' 'SS1' ascending -error mean of -37.409929 Hz



Doppler difference, estimated-predicted 'WSM' 'SS1' descending -error mean of -19.223140 Hz

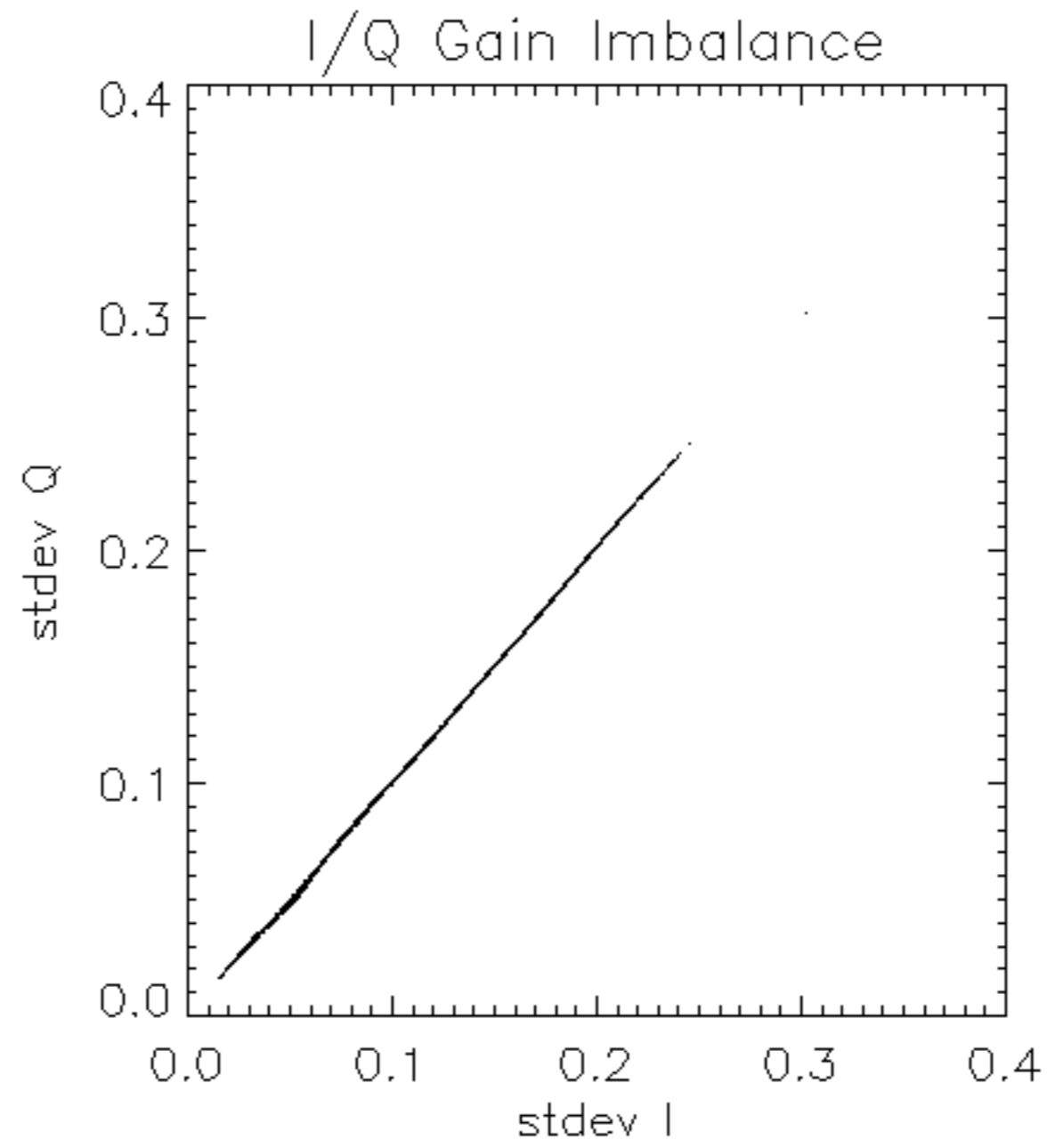


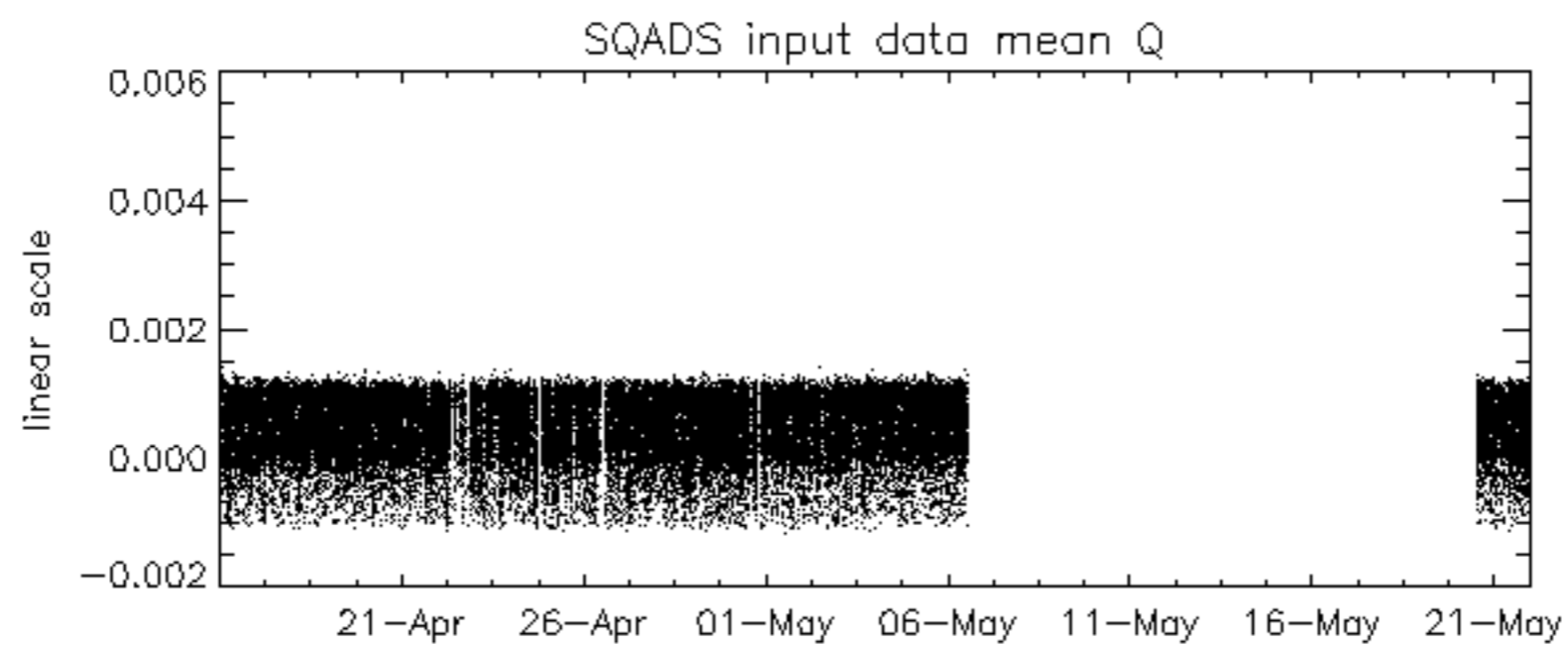
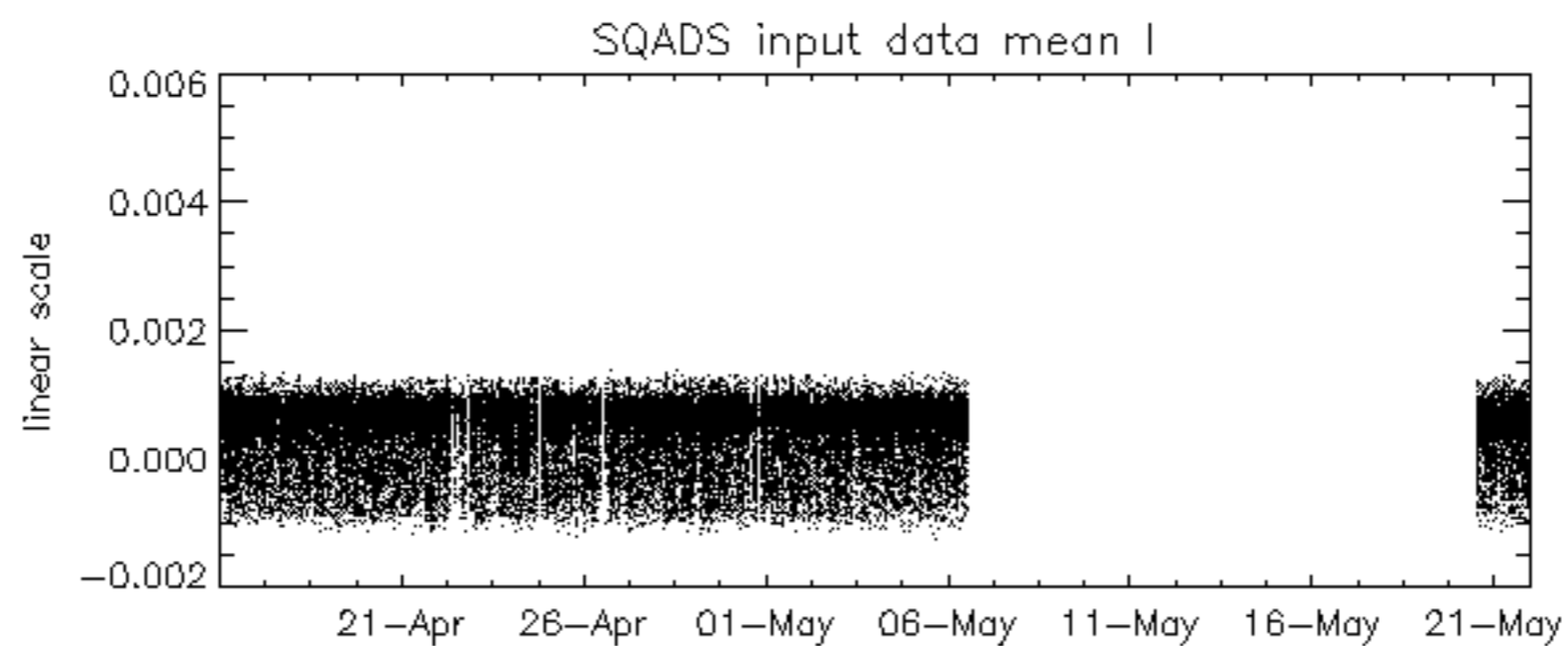
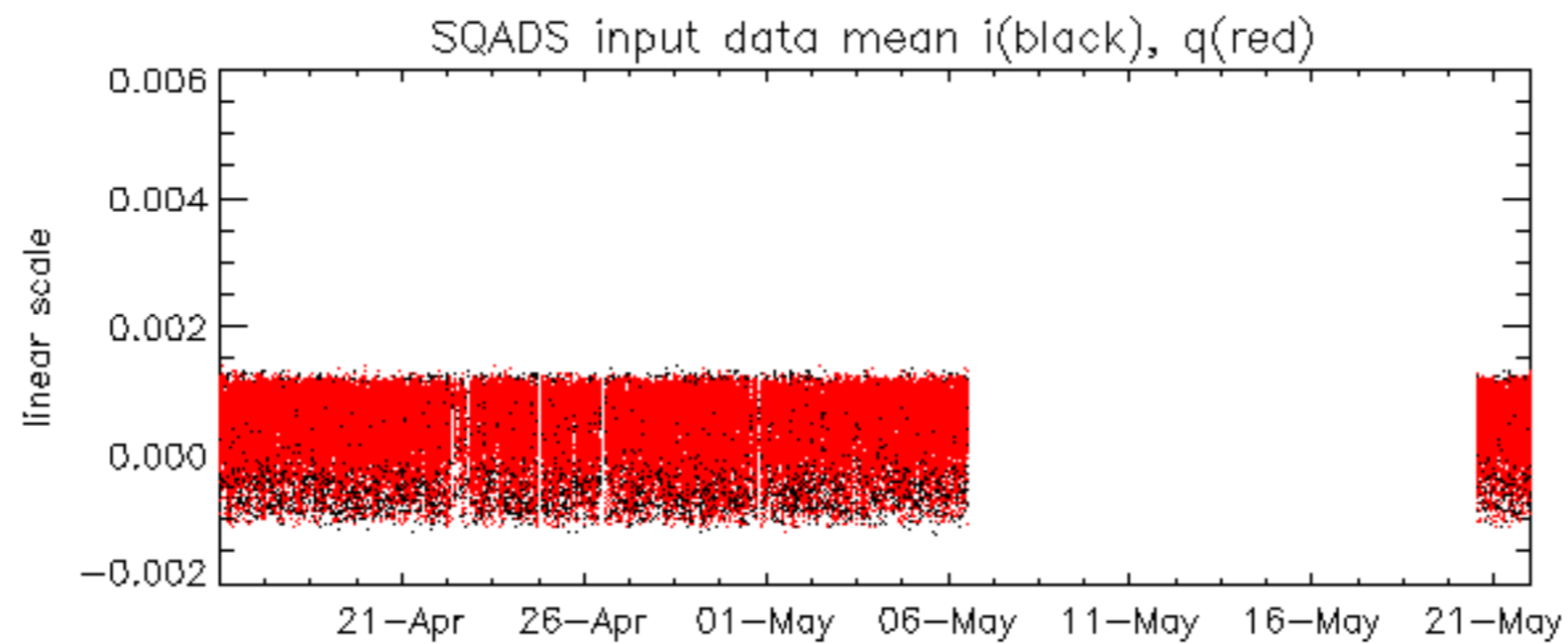
Doppler difference, estimated-predicted 'WS' 'IS2' ascending -error mean of -32.099109 Hz

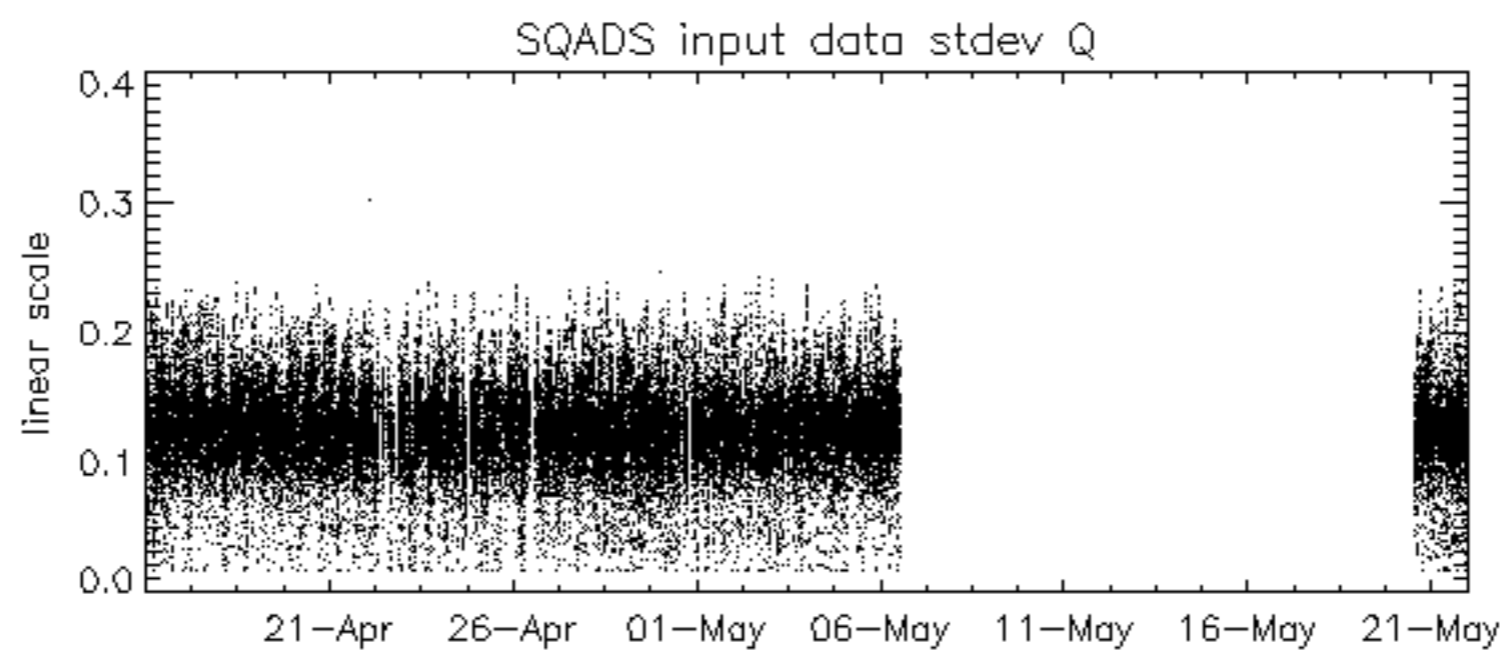
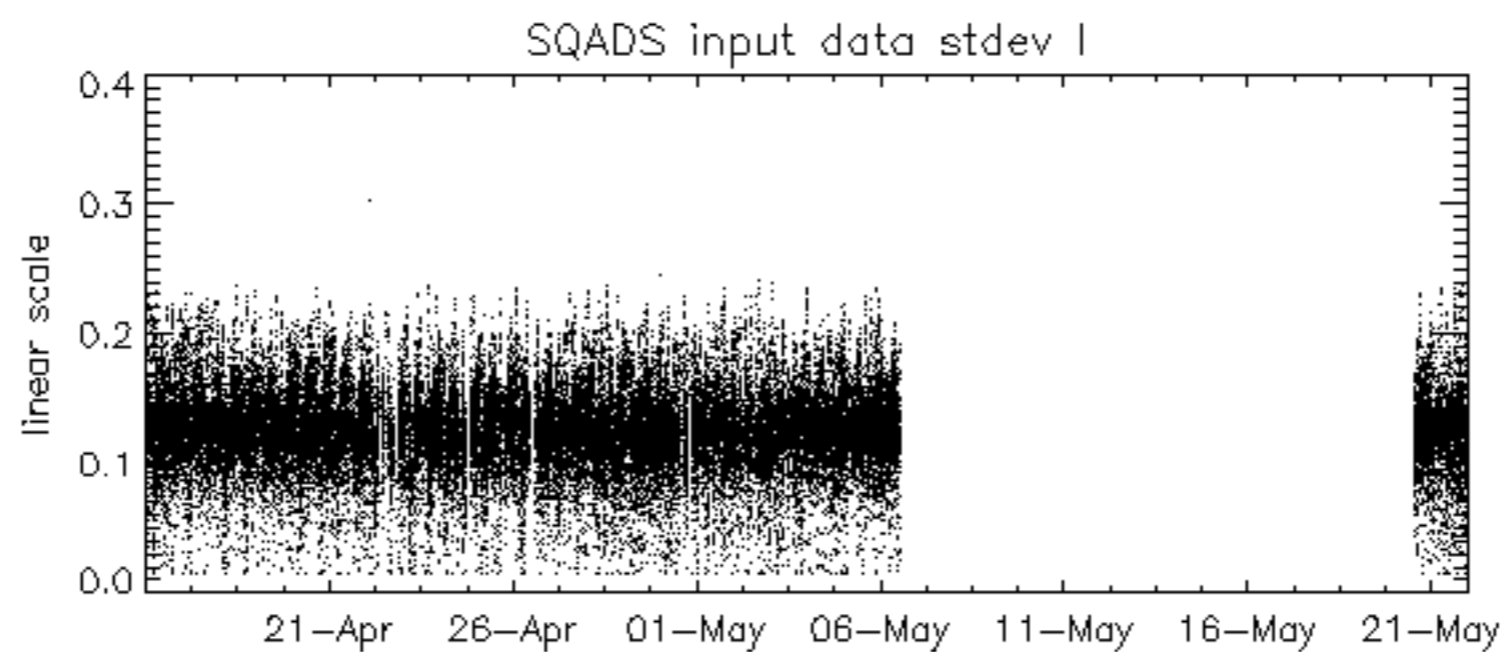
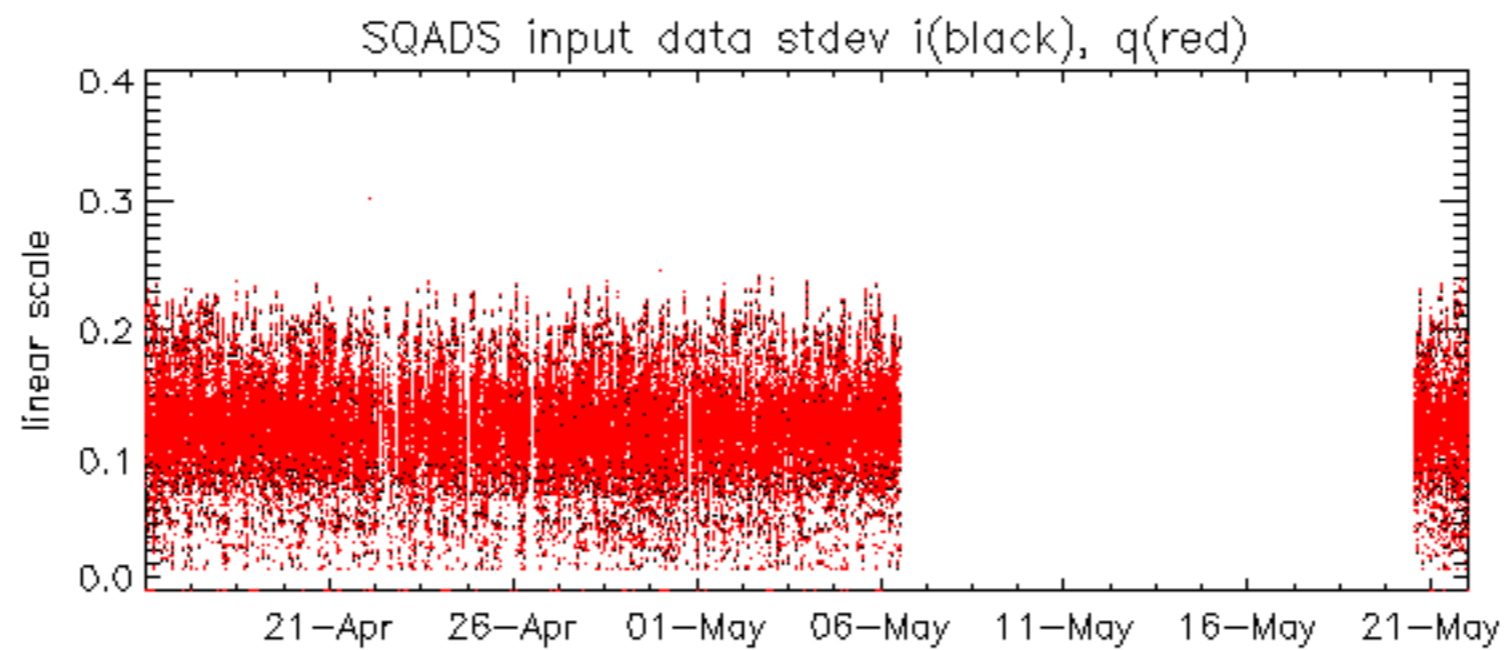


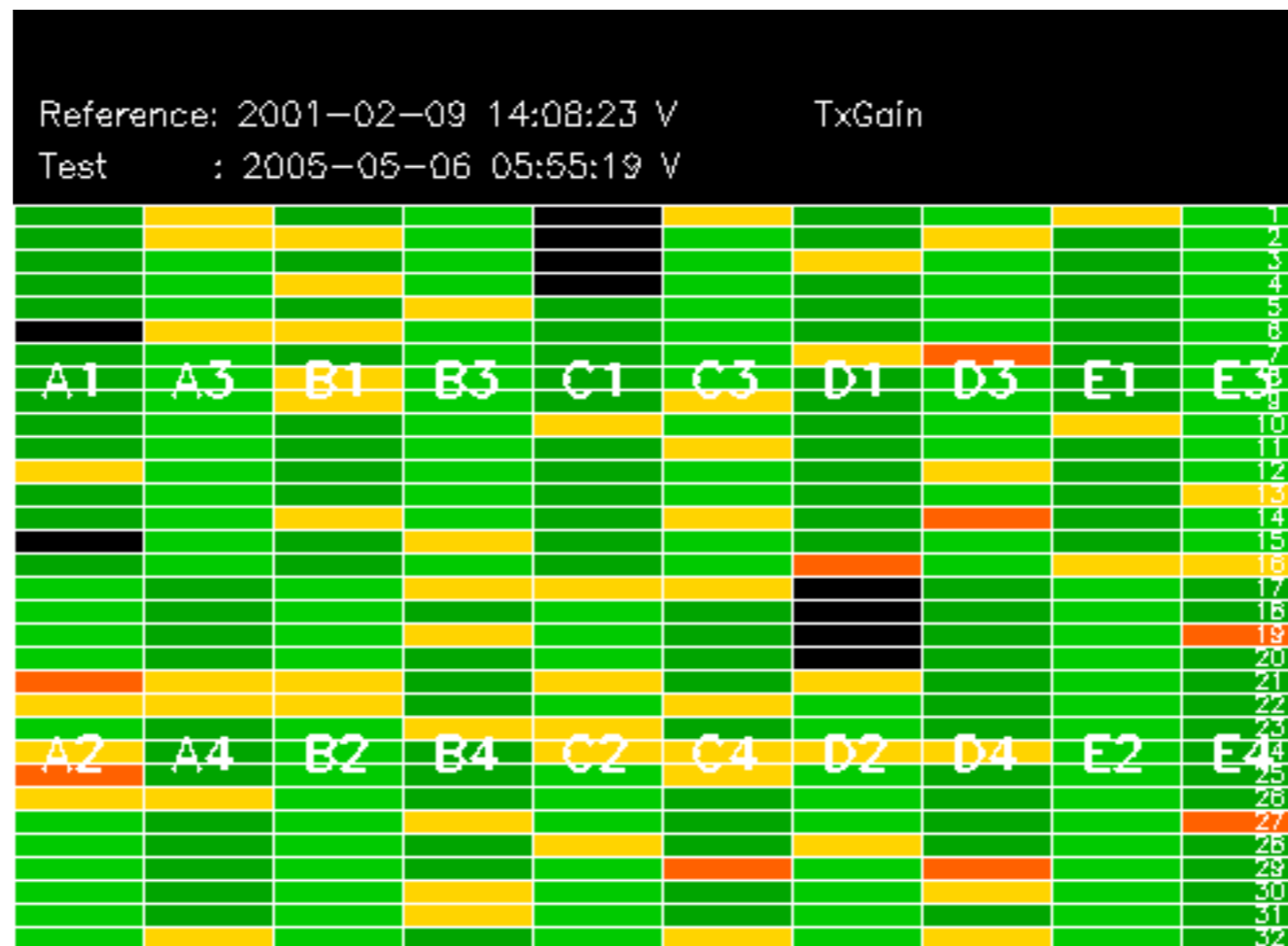
-Preliminary report. MS data is not yet controled

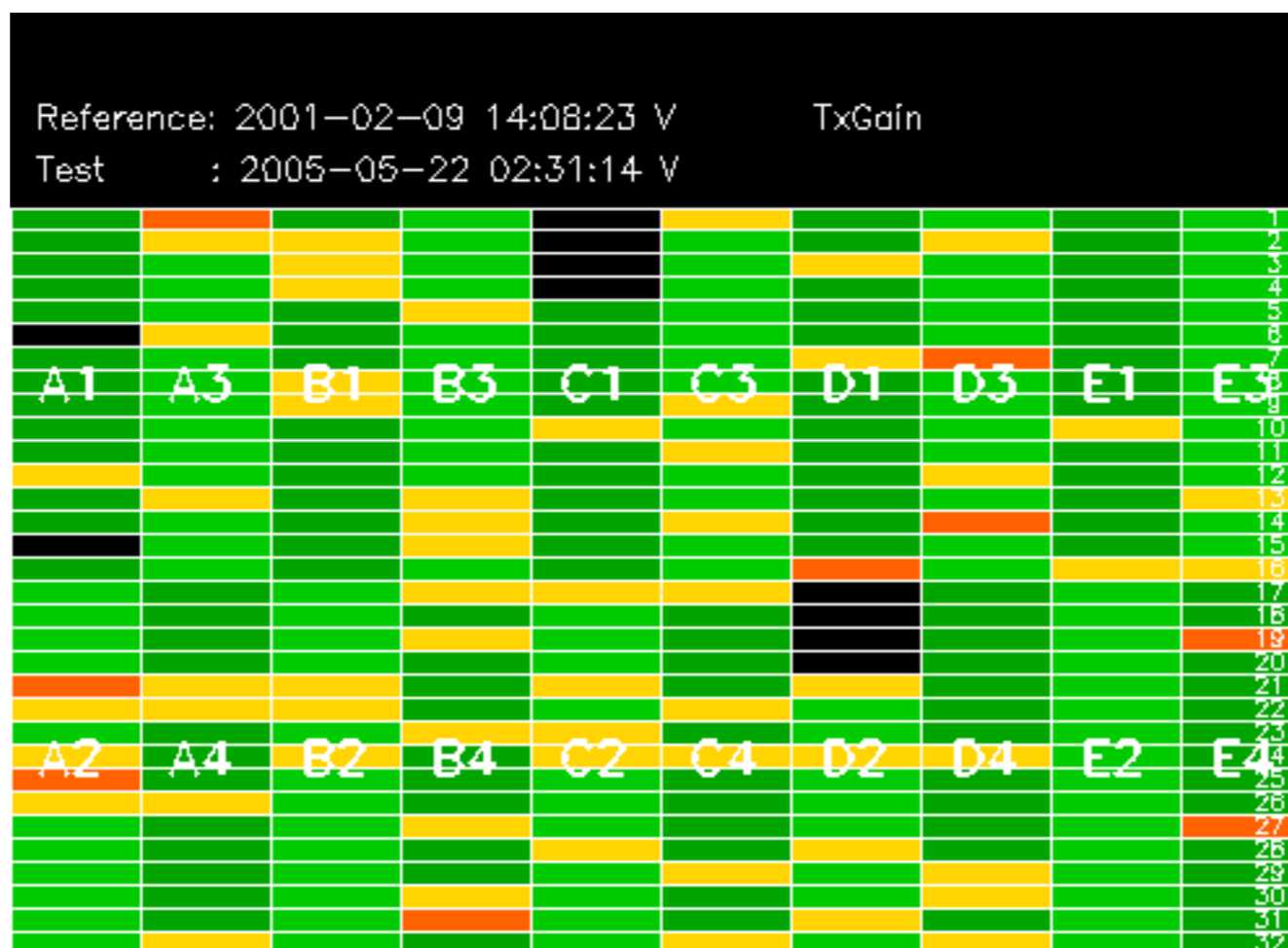
-Preliminary report. The data is not yet controled









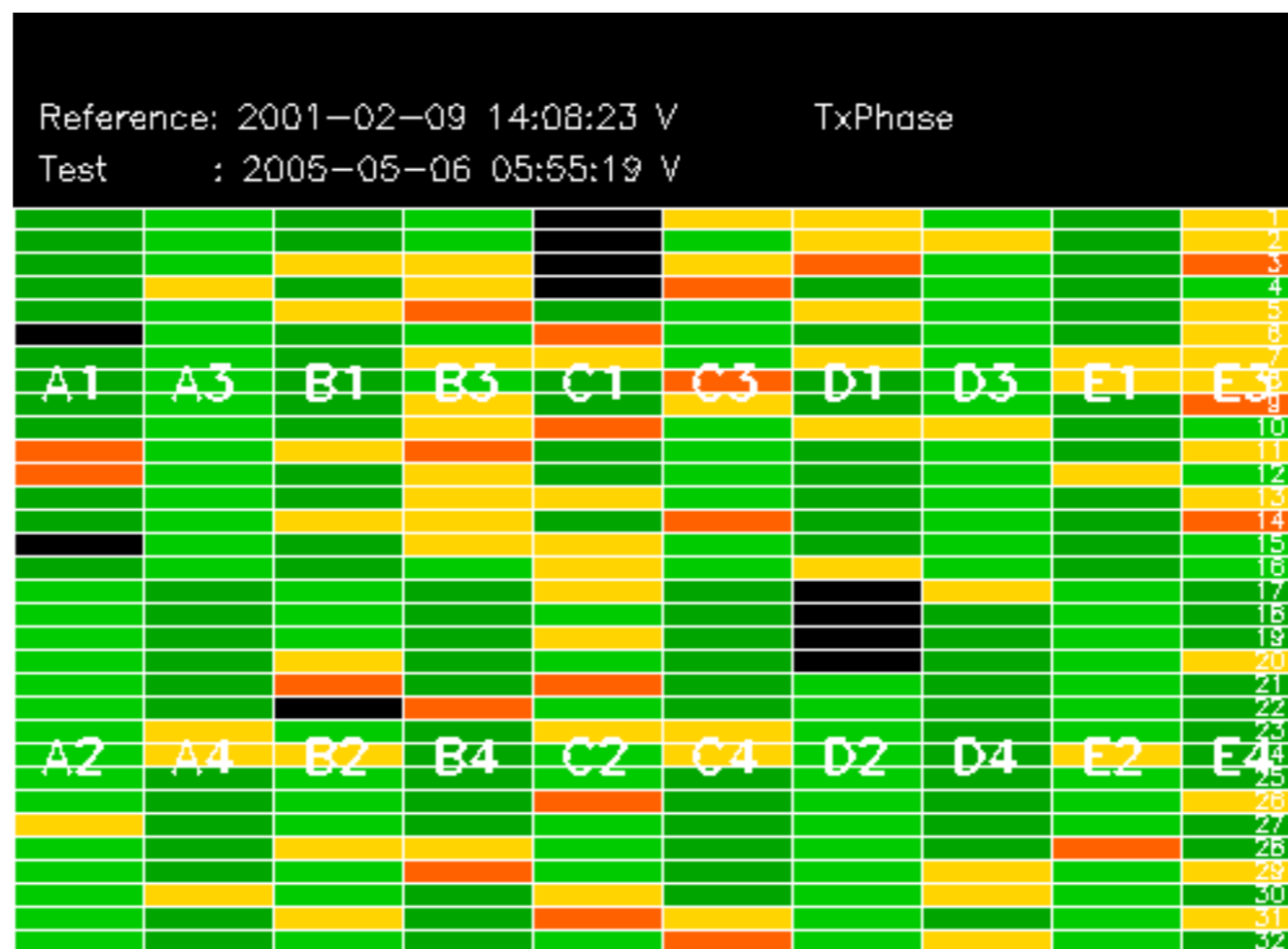


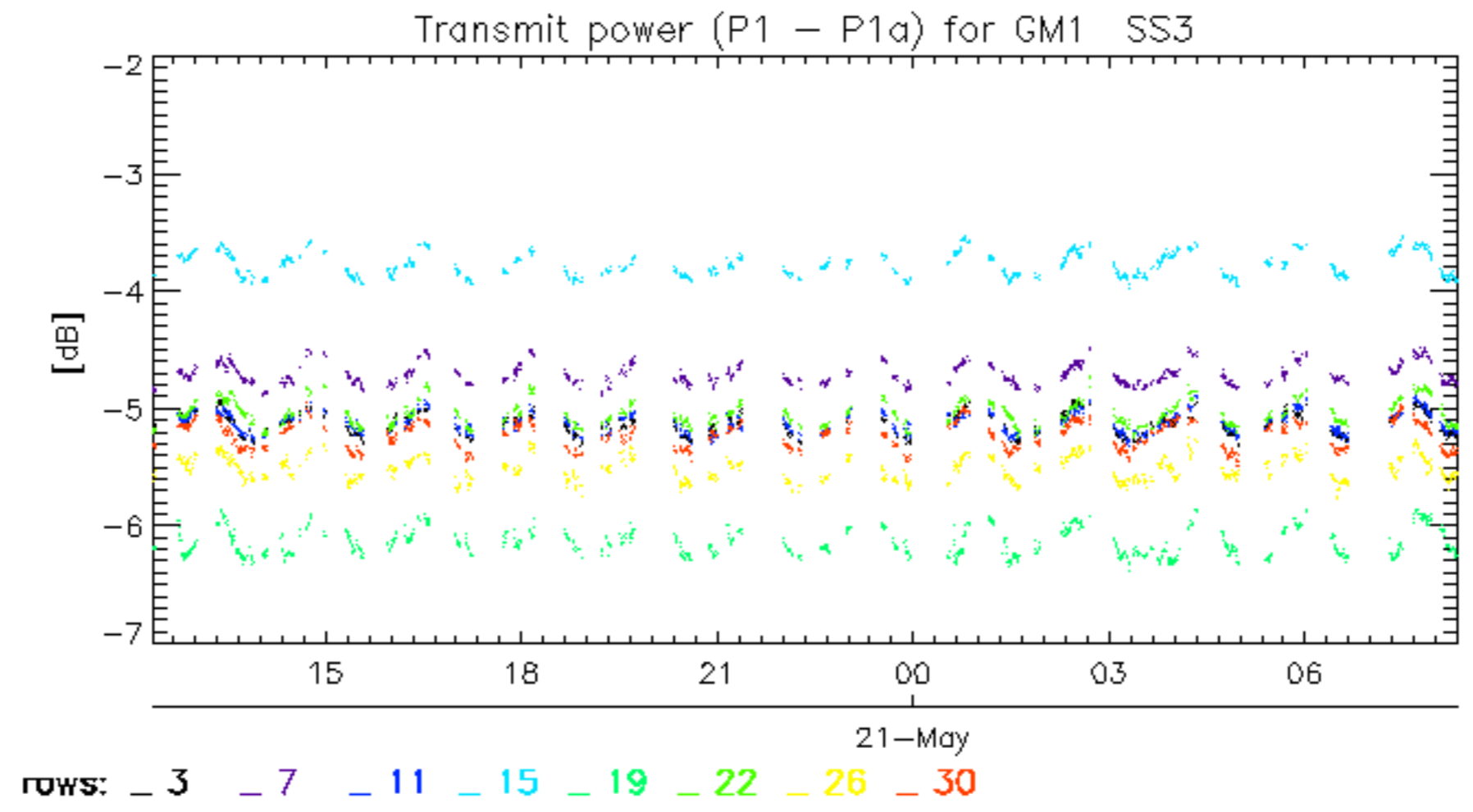
Summary of analysis for the last 3 days 2005052[901]

The assumption is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

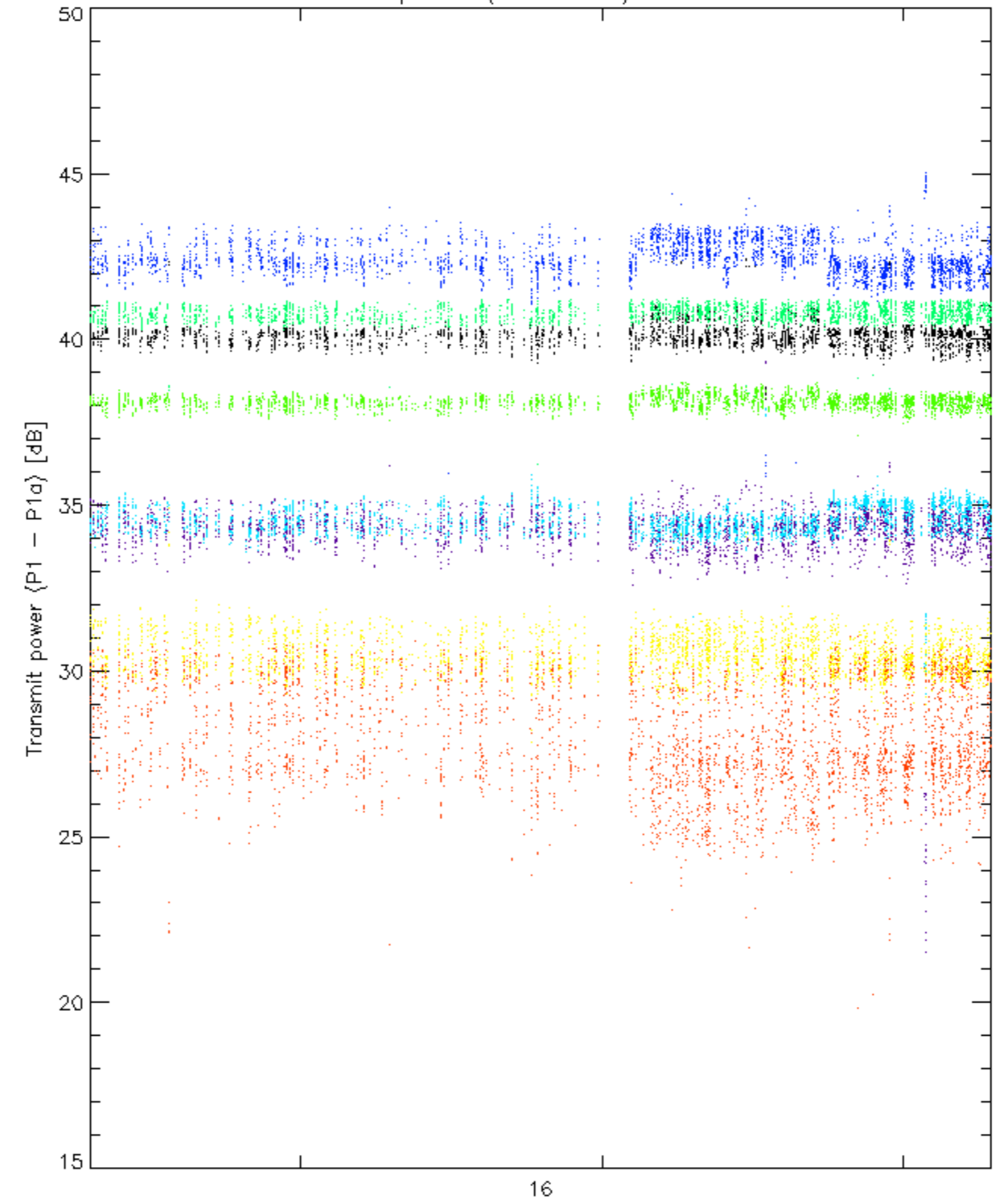
Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20050520_004259_00000622037_00245_16832_2011.N1	1	0
ASA_IMM_1PNPDE20050520_155124_000001072037_00254_16841_2063.N1	1	0
ASA_IMM_1PNPDK20050520_061446_000004082037_00249_16836_4748.N1	0	19
ASA_IMM_1PNPDK20050520_074429_00000832037_00250_16837_4758.N1	0	17
ASA_IMM_1PNPDK20050520_075913_000003382037_00250_16837_4755.N1	0	14
ASA_IMM_1PNPDK20050520_092334_00000392037_00251_16838_4760.N1	0	12
ASA_IMM_1PNPDK20050520_094552_00000892037_00251_16838_4763.N1	0	15
ASA_IMM_1PNPDK20050520_123932_000001082037_00253_16840_4766.N1	0	13
ASA_IMM_1PNPDK20050520_124234_000001042037_00253_16840_4769.N1	0	29
ASA_IMM_1PNPDK20050521_072959_000002402037_00264_16851_4821.N1	0	6
ASA_IMM_1PNPDK20050521_074032_00000622037_00264_16851_4831.N1	0	14
ASA_IMM_1PNPDK20050521_085157_00000692037_00265_16852_4829.N1	0	7
ASA_IMM_1PNPDK20050521_090859_00000622037_00265_16852_4827.N1	0	7
ASA_IMM_1PNPDK20050521_091100_00000302037_00265_16852_4828.N1	0	12
ASA_IMM_1PNPDK20050521_104453_00000622037_00266_16853_4835.N1	0	7
ASA_IMM_1PNPDK20050521_104654_00000342037_00266_16853_4836.N1	0	10
ASA_IMM_1PNPDK20050521_134748_00000432037_00268_16855_4838.N1	0	7
ASA_GM1_1PNPDK20050520_152850_000003502037_00254_16841_1201.N1	0	15
ASA_GM1_1PNPDK20050521_074554_000006942037_00264_16851_1258.N1	0	6
ASA_GM1_1PNPDK20050521_085554_000006402037_00265_16852_1260.N1	0	14
ASA_GM1_1PNPDK20050521_094520_000009242037_00265_16852_1269.N1	0	6
ASA_GM1_1PNPDK20050521_135741_000007002037_00268_16855_1296.N1	0	15
ASA_WSM_1PNPDE20050520_013211_000003062037_00246_16833_3281.N1	0	71
ASA_WSM_1PNPDE20050520_141507_00000852037_00254_16841_3073.N1	0	30
ASA_WSM_1PNPDK20050520_074638_00000672037_00250_16837_3395.N1	0	15
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ASA_WSM_1PNPDK20050520_093856_000004222037_00251_16838_3404.N1	0	15
ASA_WSM_1PNPDK20050520_111920_00000672037_00252_16839_3411.N1	0	17
ASA_WSM_1PNPDK20050520_112029_00000552037_00252_16839_3596.N1	0	5
ASA_WSM_1PNPDK20050520_112129_000002252037_00252_16839_3412.N1	0	24
ASA_WSM_1PNPDK20050520_120732_000001472037_00252_16839_3422.N1	0	21
ASA_WSM_1PNPDK20050520_122648_000001712037_00252_16839_3421.N1	0	14
ASA_WSM_1PNPDK20050520_130156_000001042037_00253_16840_3423.N1	0	10
ASA_WSM_1PNPDK20050520_143056_000002442037_00254_16841_3435.N1	0	18
ASA_WSM_1PNPDK20050520_143640_000008672037_00254_16841_3423.N1	0	12
ASA_WSM_1PNPDK20050520_143747_00000612037_00254_16841_3424.N1	0	9
ASA_WSM_1PNPDK20050520_143849_00000552037_00254_16841_3425.N1	0	7
ASA_WSM_1PNPDK20050520_143944_00000612037_00254_16841_3426.N1	0	12
ASA_WSM_1PNPDK20050520_144045_00000612037_00254_16841_3427.N1	0	18
ASA_WSM_1PNPDK20050520_160911_000002262037_00255_16842_3441.N1	0	7
ASA_APM_1PNPDK20050520_081555_00000112037_00250_16837_2095.N1	0	3
ASA_APM_1PNPDK20050521_074432_00000572037_00264_16851_2097.N1	0	9

</table>

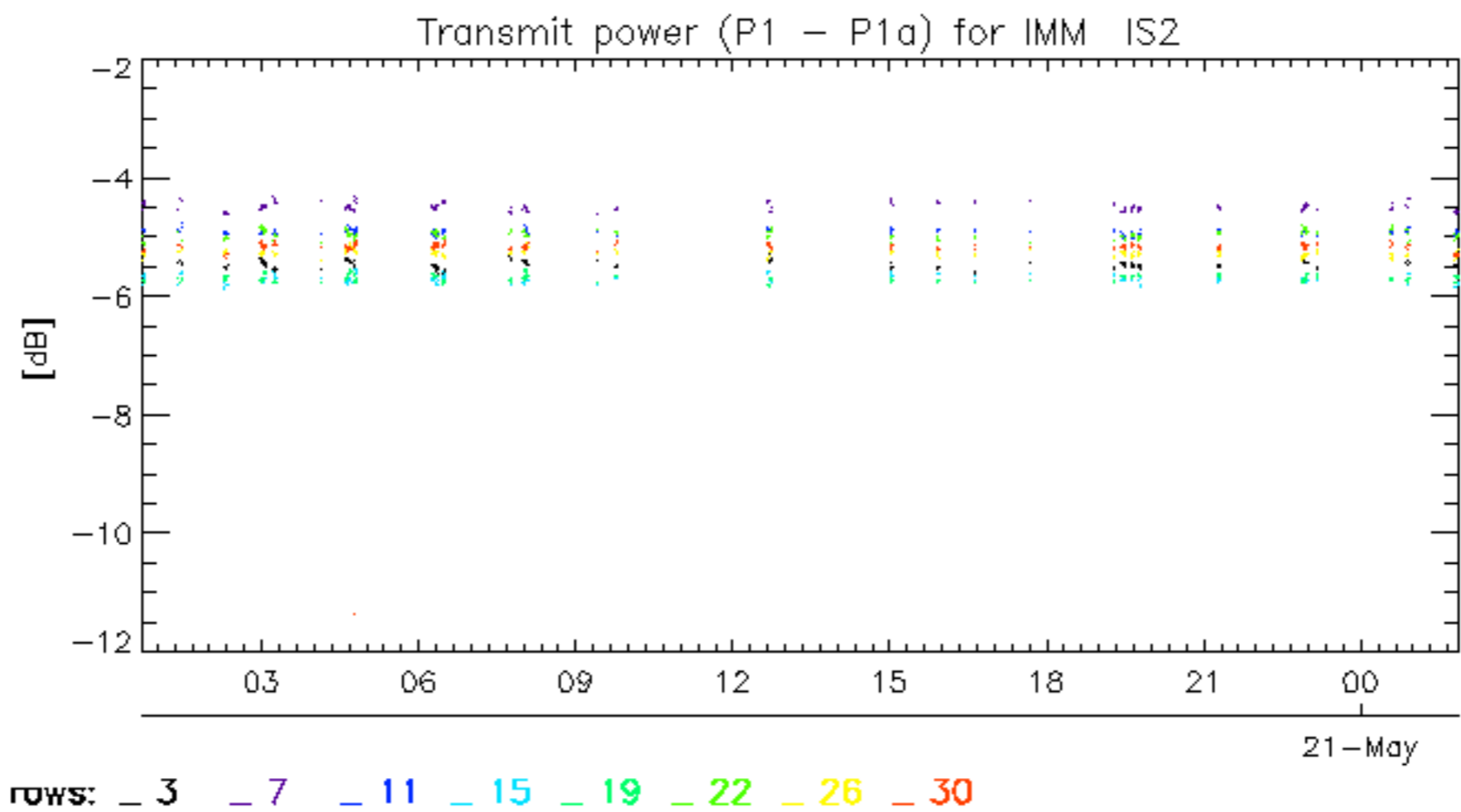




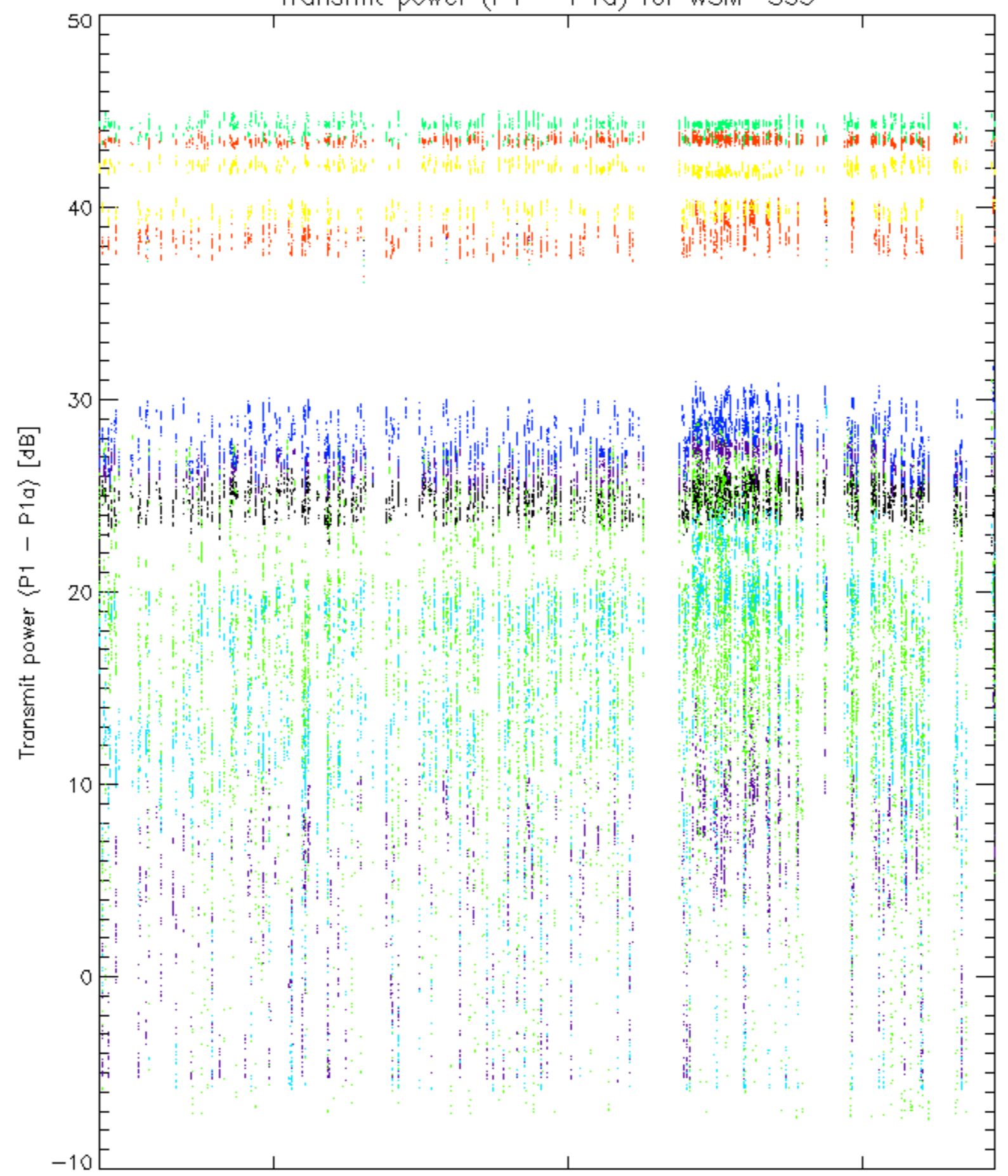
Transmit power (P1 - P1a) for IMM IS2



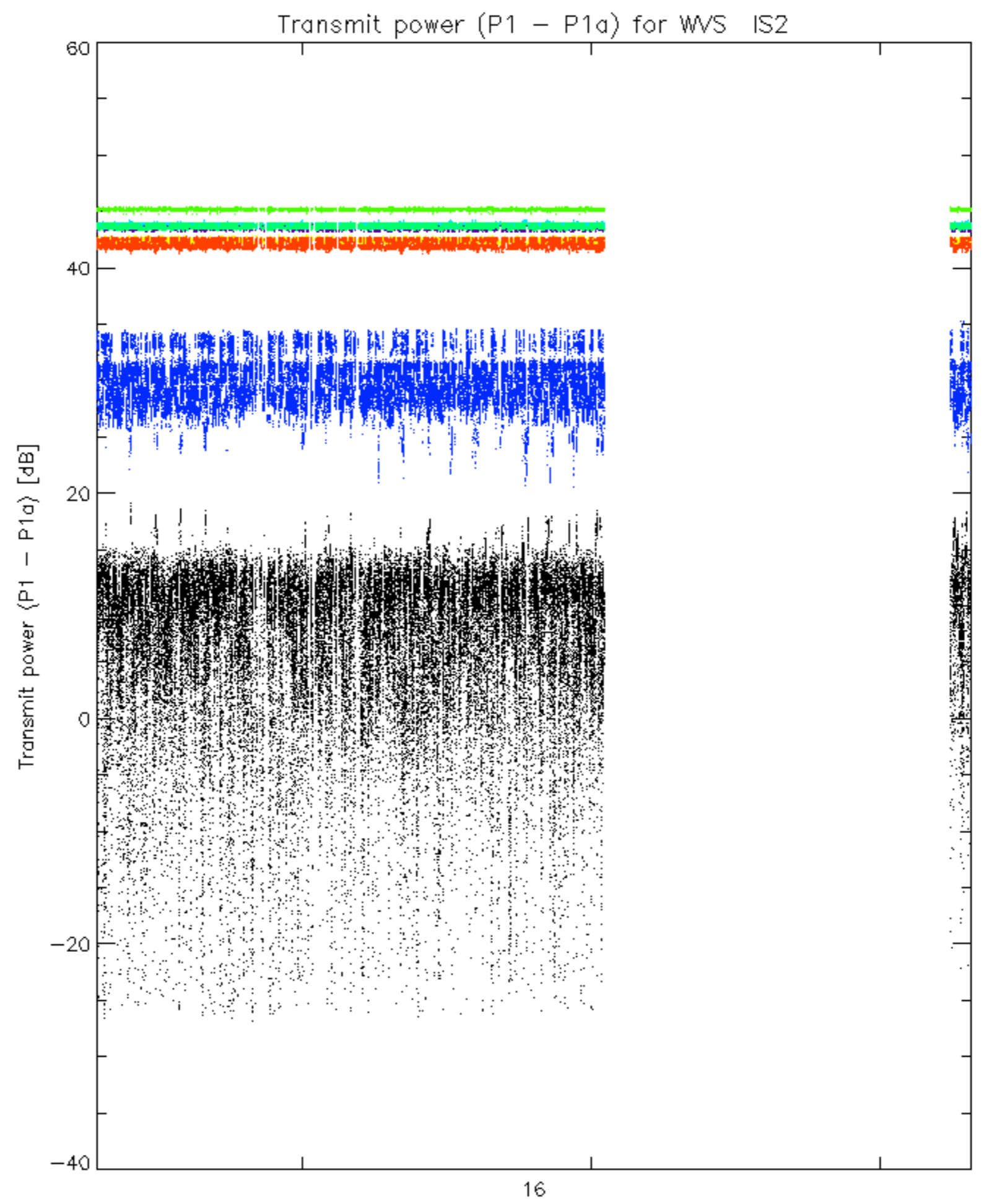
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30



Transmit power (P1 - P1a) for WSM SS3



rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30



rows: 3 7 11 15 19 22 26 30

