



Analysis from 16-AUG-2011 00:00:00 to 16-AUG-2011 23:59:59. Page generated on 17-AUG-2011 07:31:53.
View log file: ASAR_Daily_Report_20110817_0731.log. For any anomalies please contact emma.griffiths@vegaspace.com, kajal.haria@vegaspace.com.

This report is automatically generated every day, every 2 hours. No comments are provided on the results.

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1 - DATA SUMMARY

1.1 - Summary tables

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WVS				GM1				APM				IMM				WSM				MS			
Center	Beam	Pol	#	Center	Beam	Pol	#	Center	Beam	Pol	#	Center	Beam	Pol	#	Center	Beam	Pol	#	Center	Time	Pol	Modules
PDE	IS1	V/V	1	PDE	WS	H/H	40	PDE	IS1	H/H	2	PDE	IS2	V/V	1	PDE	WS	H/H	26	PDK	2011-08-16 09:05:12	H	320
PDE	IS2	V/V	25	PDK	WS	H/H	37	PDE	IS4	V/H	2	PDE	IS3	H/H	1	PDE	WS	V/V	7	PDK	2011-08-16 10:45:26	V	320
PDK	IS2	V/V	21					PDK	IS4	V/H	1	PDE	IS3	V/V	1	PDK	WS	***	1				
								PDK	IS6	V/H	1	PDE	IS5	H/H	1	PDK	WS	H/H	11				
												PDE	IS5	V/V	2	PDK	WS	V/V	4				
												PDE	IS6	H/H	2								
												PDE	IS6	V/V	1								

1.2 - Lists of products used

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[\[TXT\]](#) [\[XLS\]](#) List_WVS_products_used
[\[TXT\]](#) [\[XLS\]](#) List_GM1_products_used
[\[TXT\]](#) [\[XLS\]](#) List_APM_products_used
[\[TXT\]](#) [\[XLS\]](#) List_IMM_products_used
[\[TXT\]](#) [\[XLS\]](#) List_WSM_products_used
[\[TXT\]](#) [\[XLS\]](#) List_MS_products_used

2 - AUXILIARY FILES ANALYSIS

2.1 - IECF operational ADFs list

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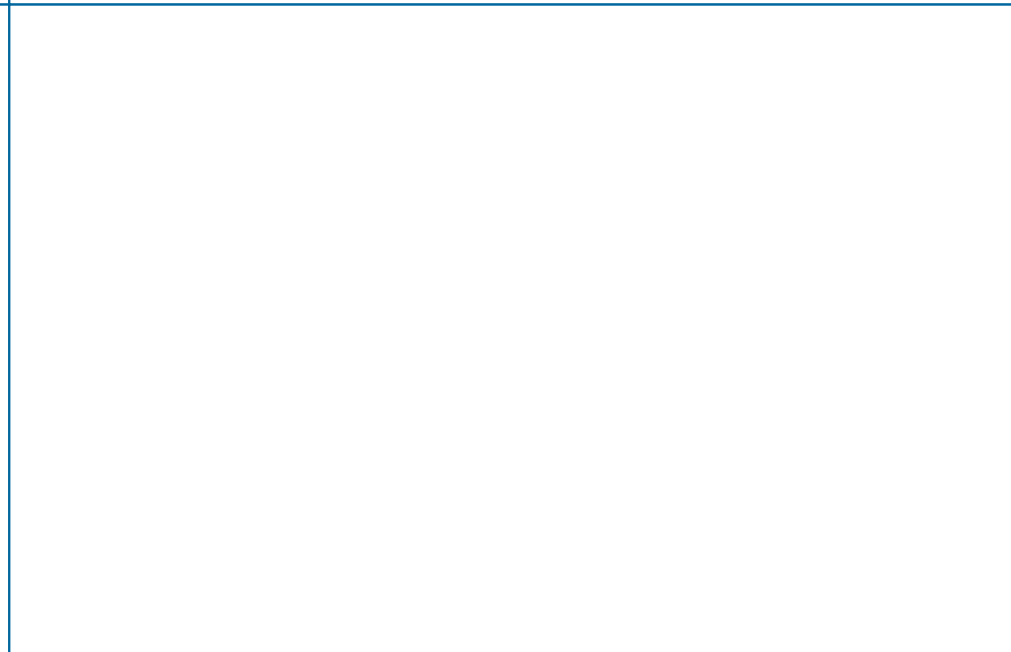
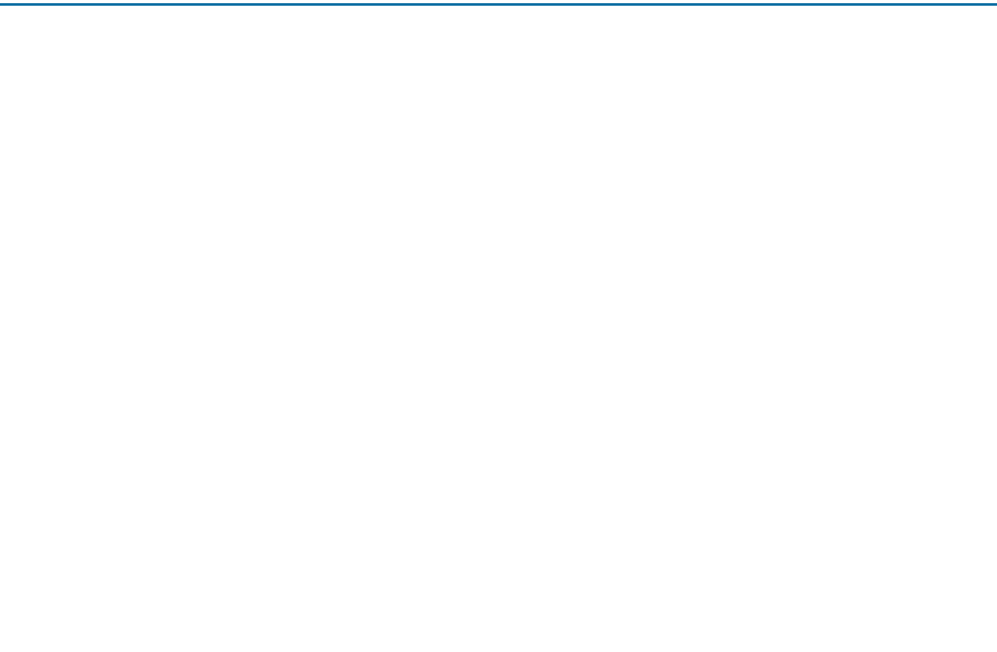
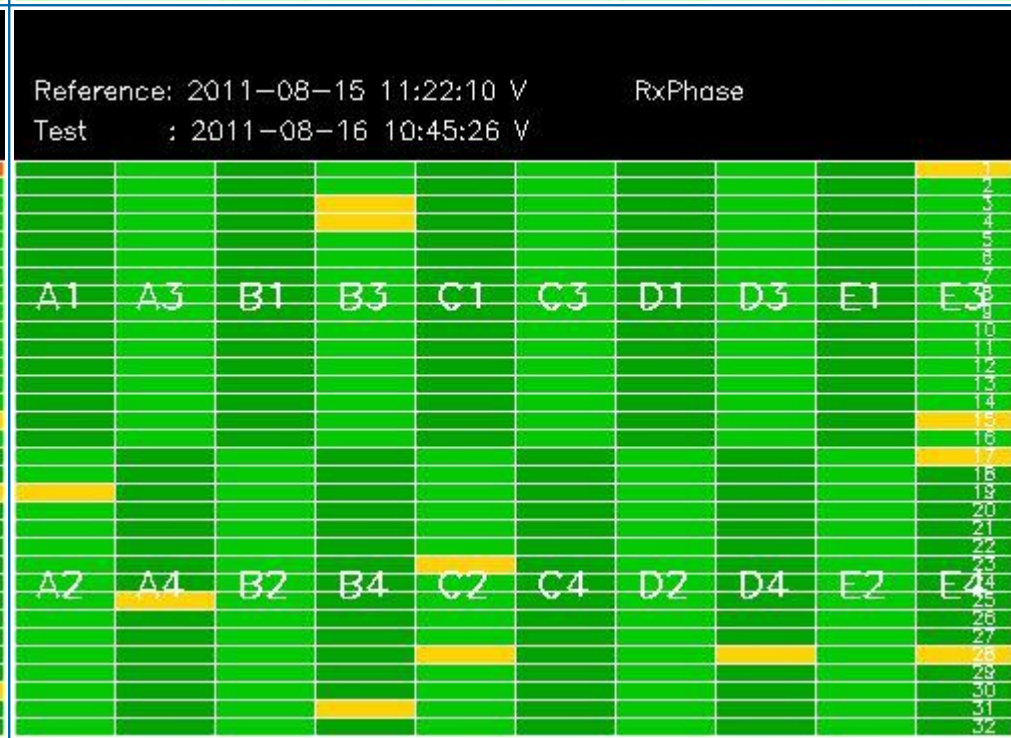
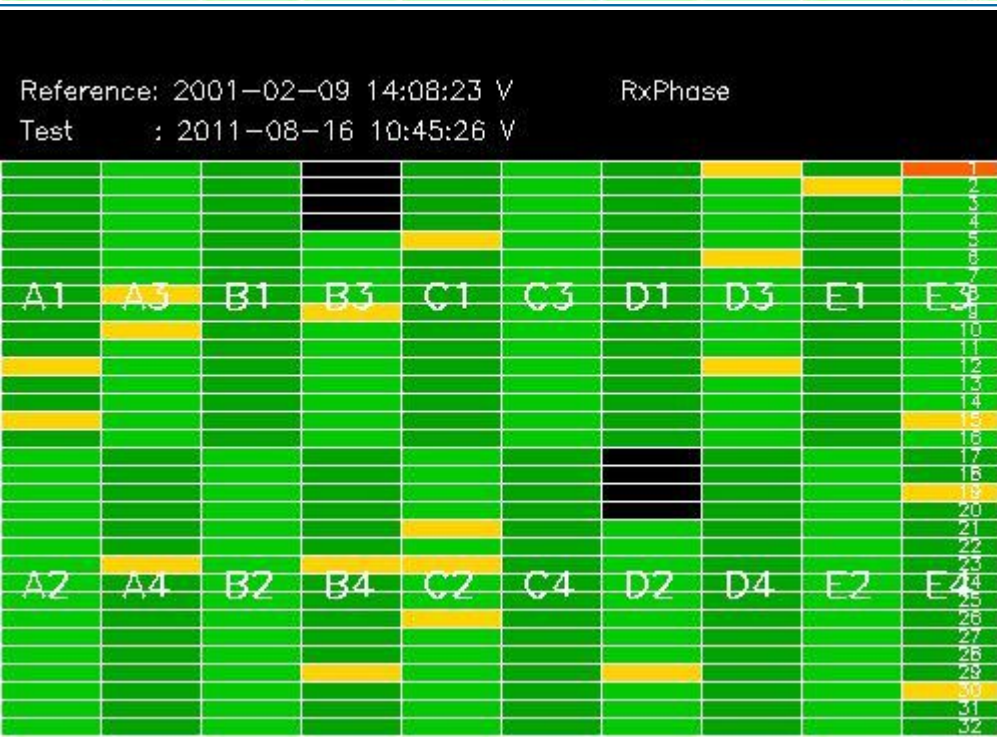
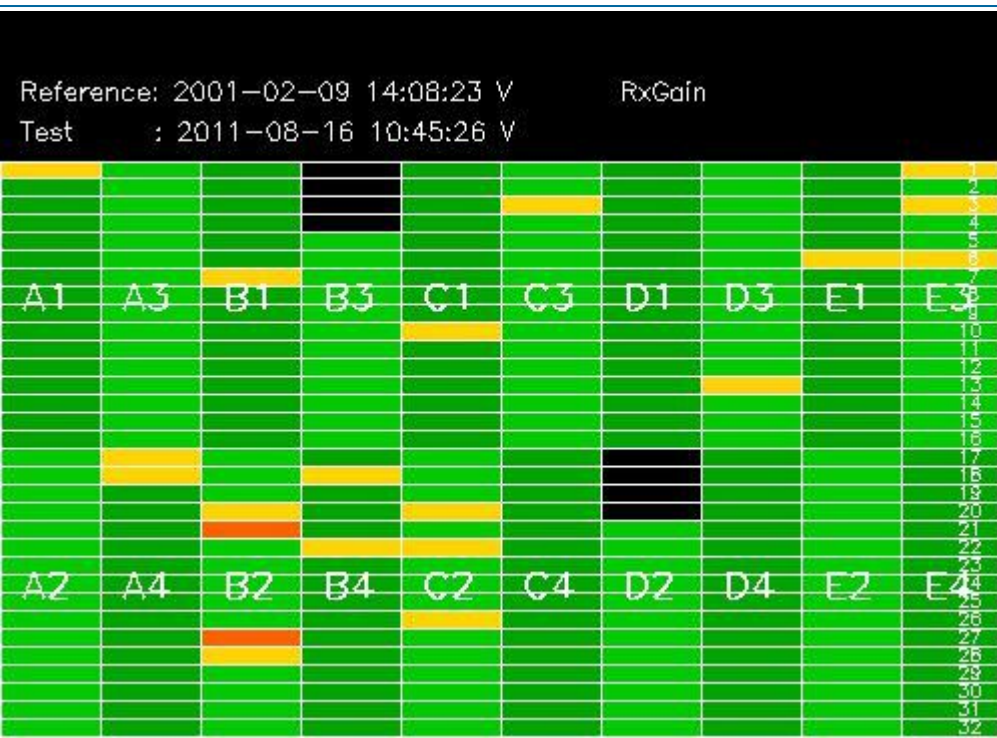
No IECF ADFs list available

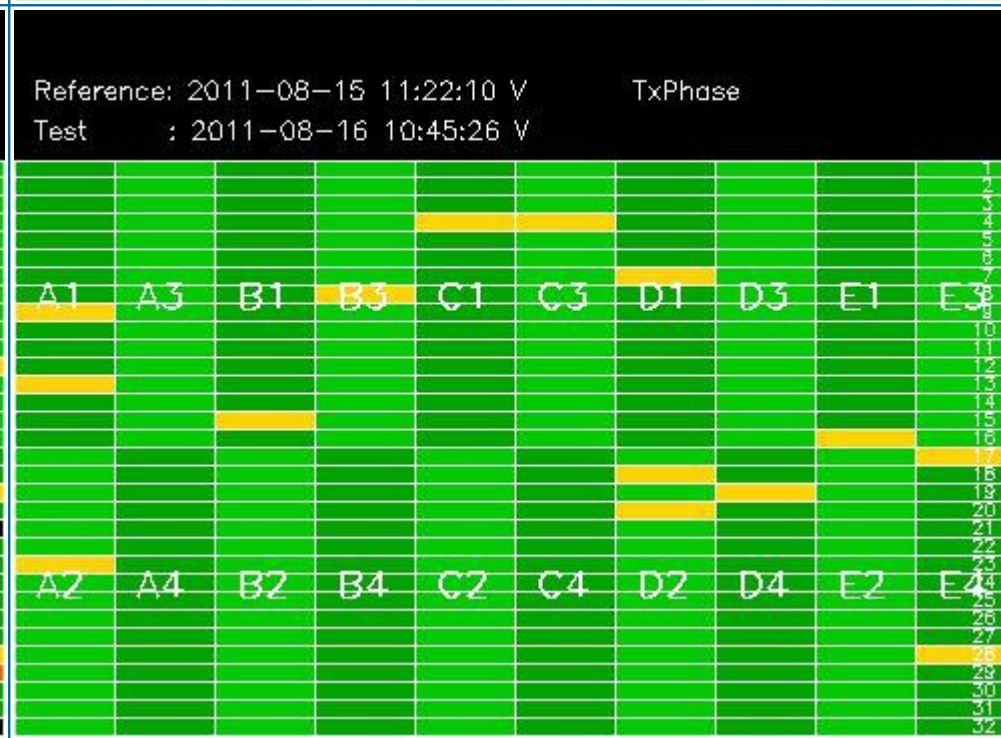
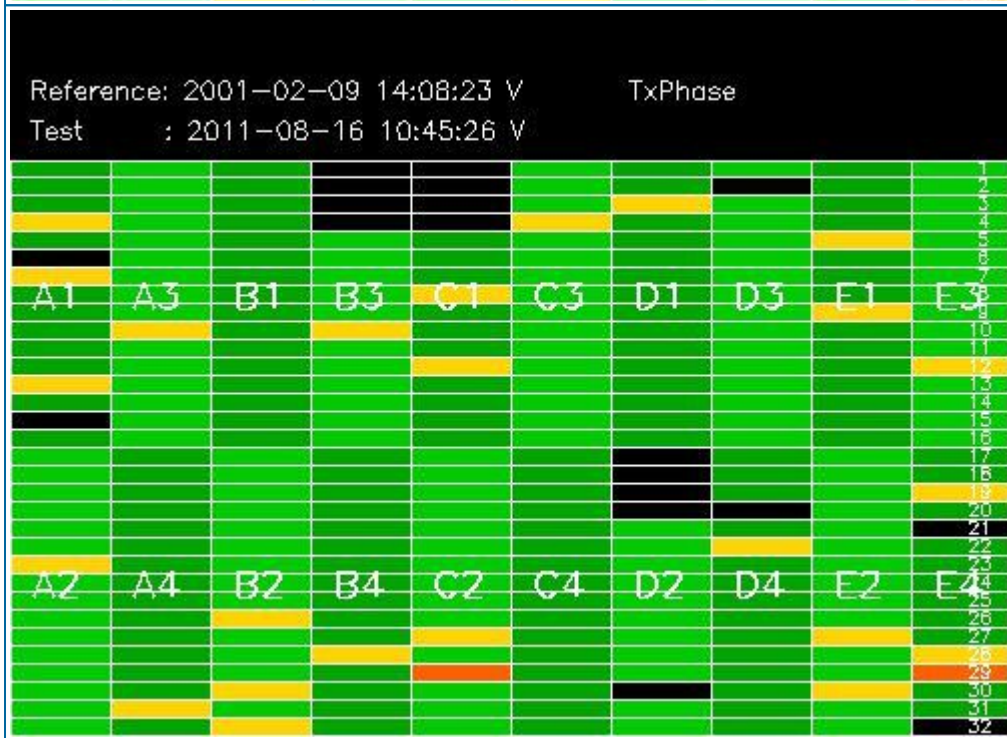
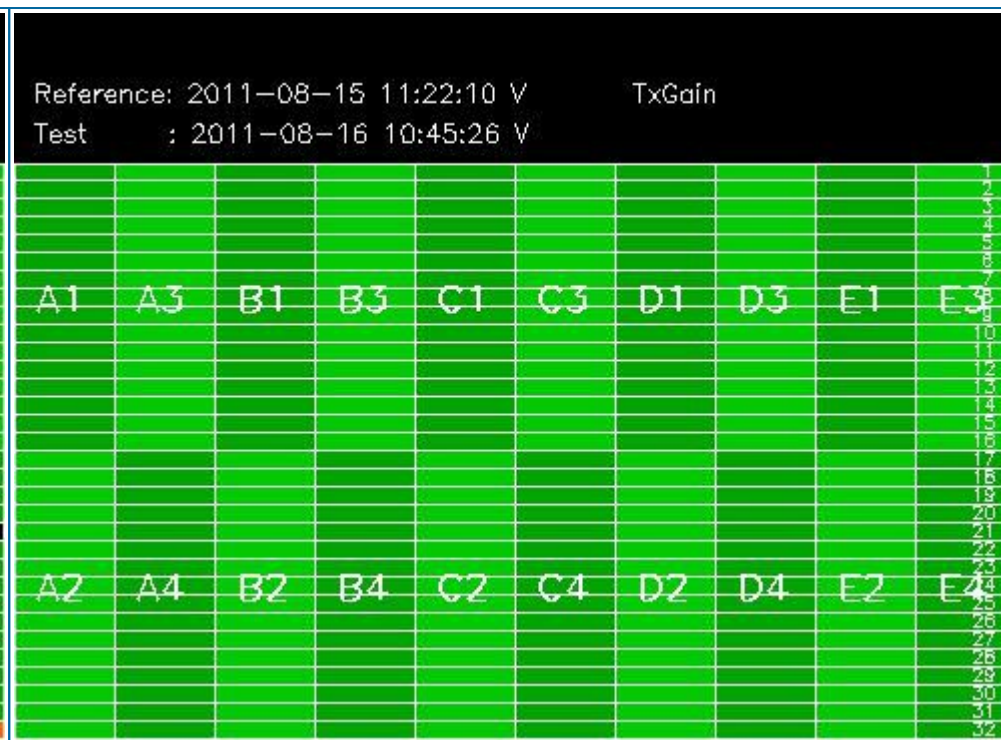
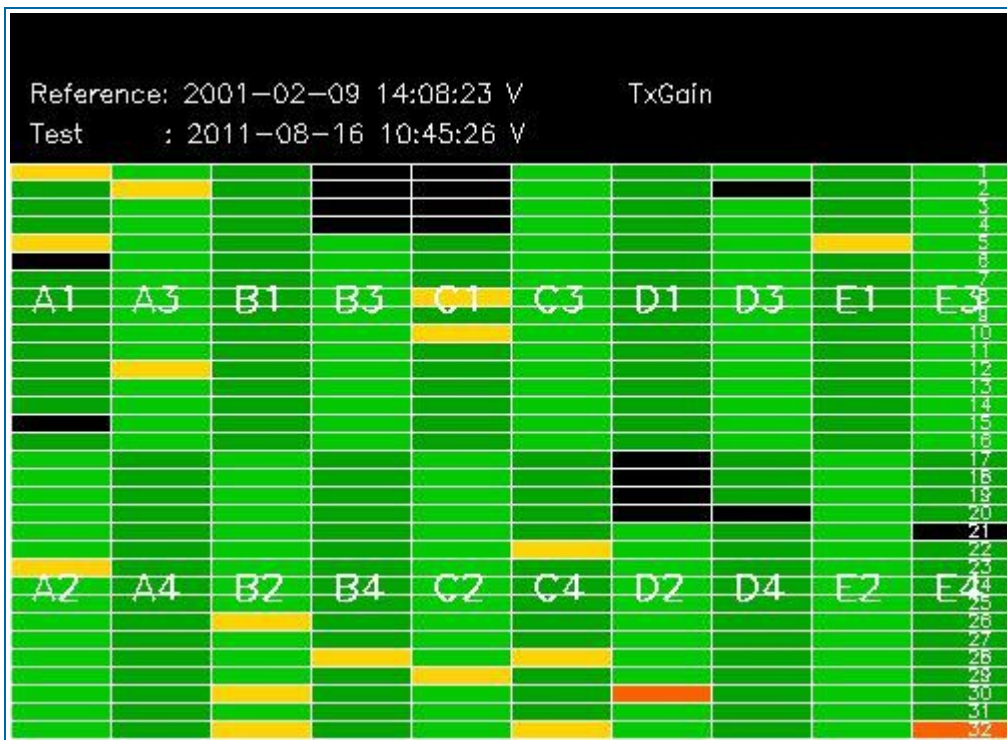
2.2 - Products with wrong ADFs

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3 - MODULE STEPPING PRODUCTS ANALYSIS

SECOND FIXED REFERENCE	PREVIOUS PRODUCT REFERENCE
Pre-launch reference (2001-02-09)	Previous product in the same polarisation

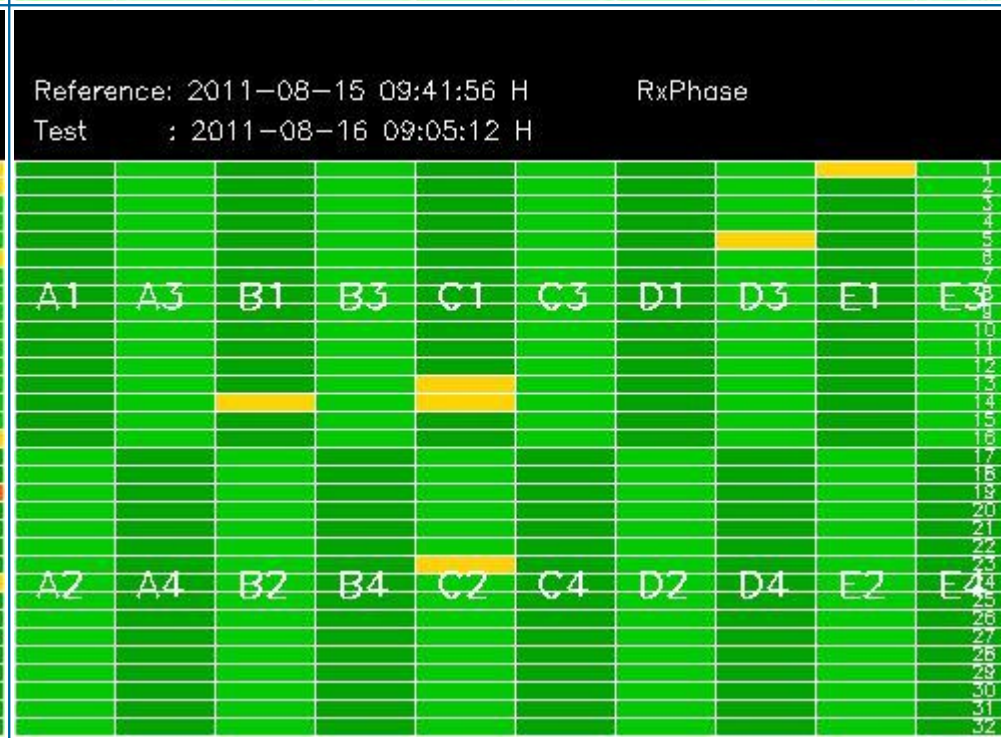
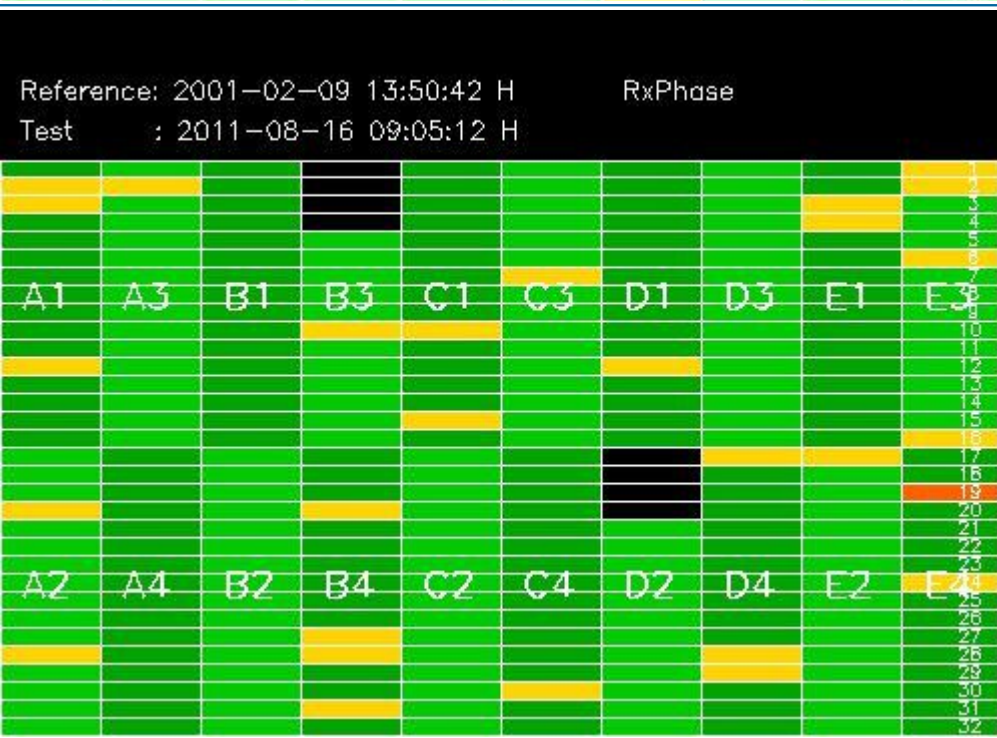
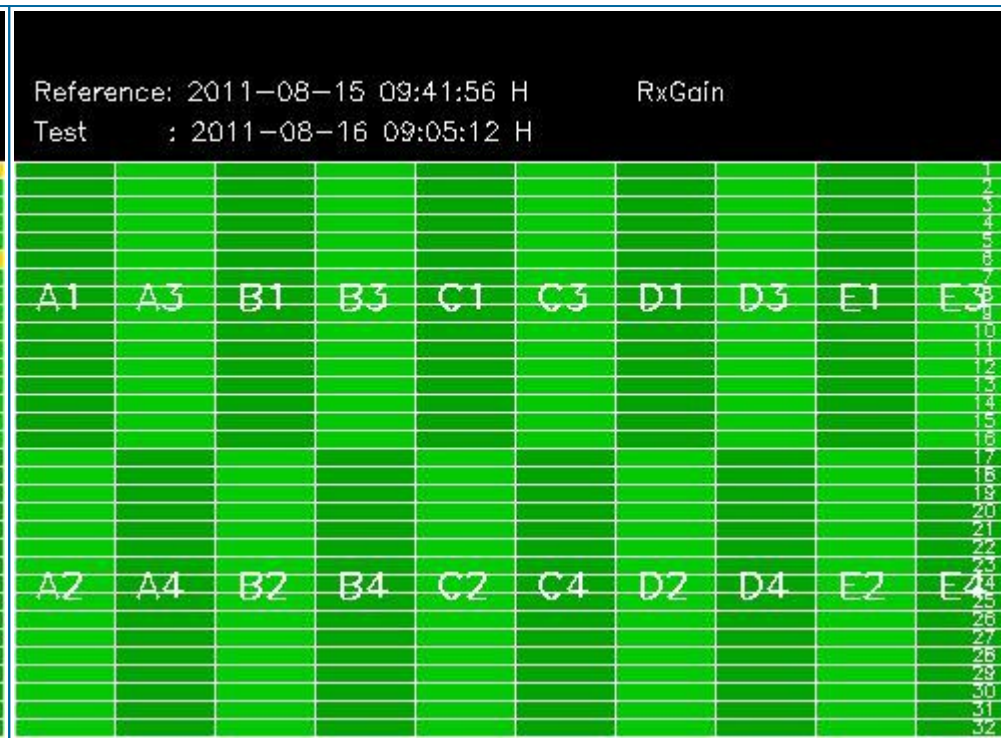
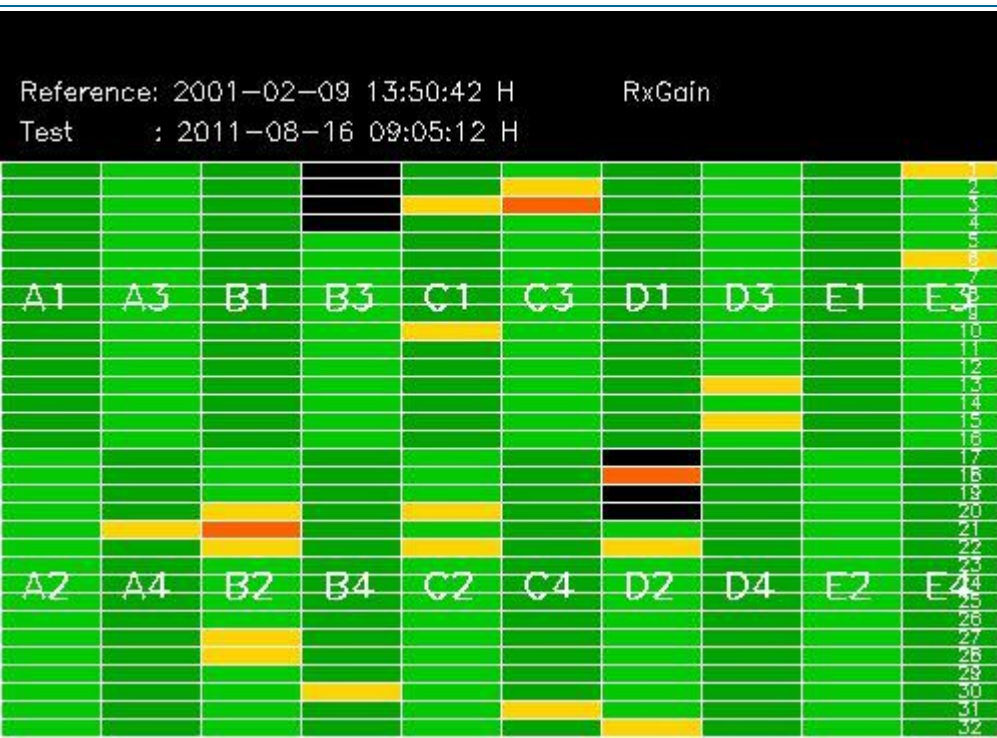


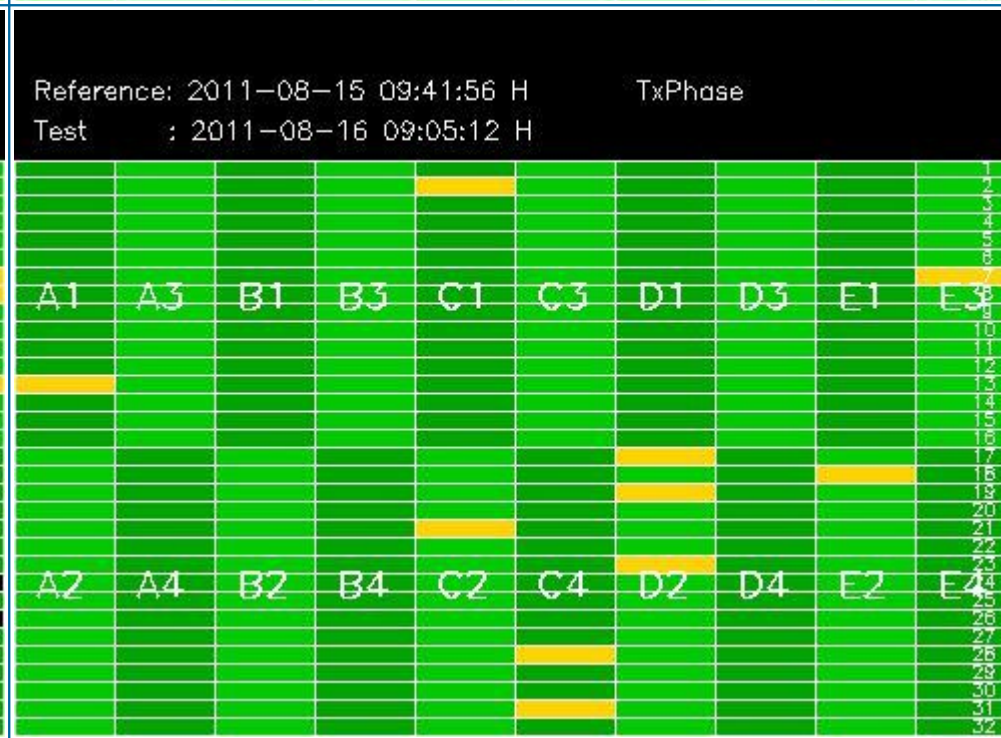
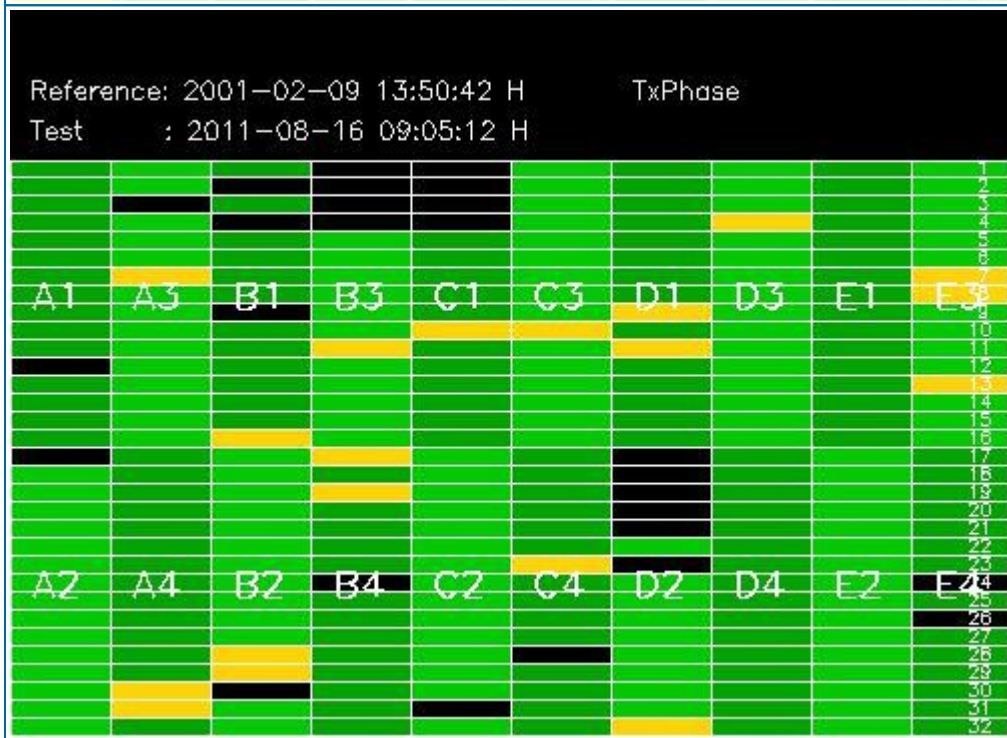
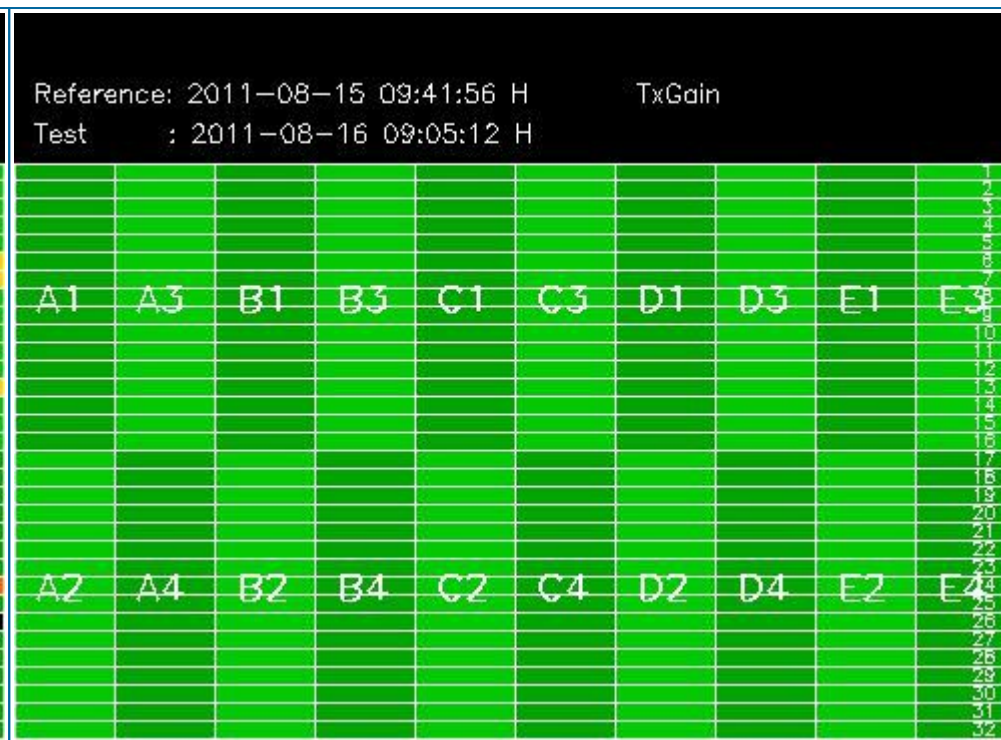
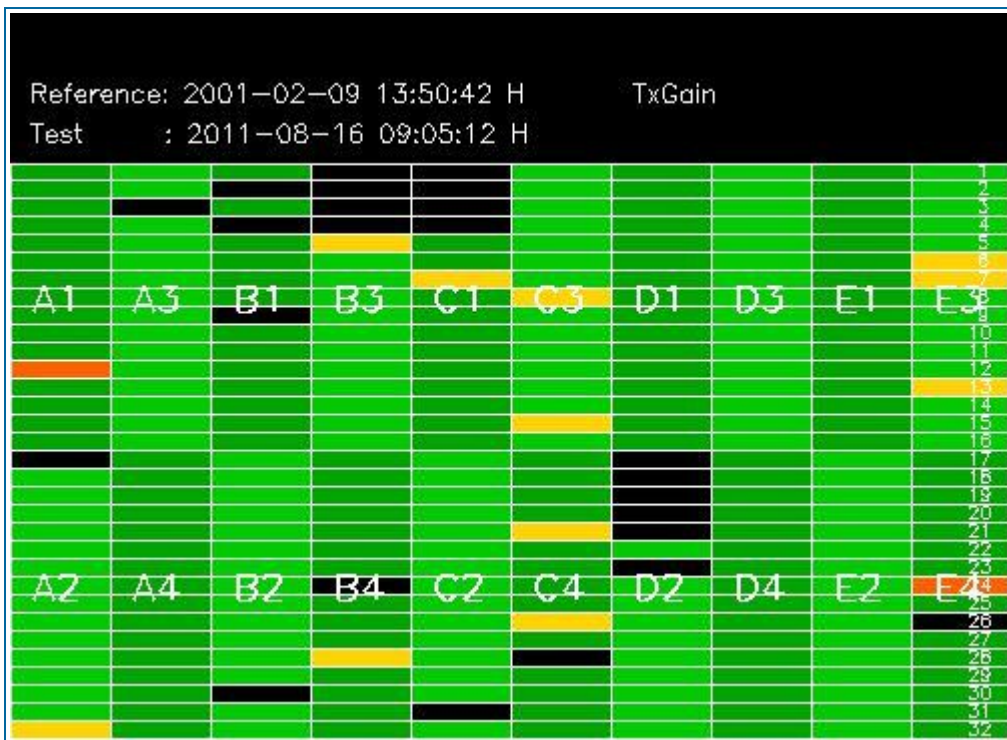


3.2 - H/H polarisation

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SECOND FIXED REFERENCE	PREVIOUS PRODUCT REFERENCE
Pre-launch reference (2001-02-09)	Previous product in the same polarisation





4 - CALIBRATION PULSES ANALYSIS

4.1 - Analysis for WVS IS2 V/V

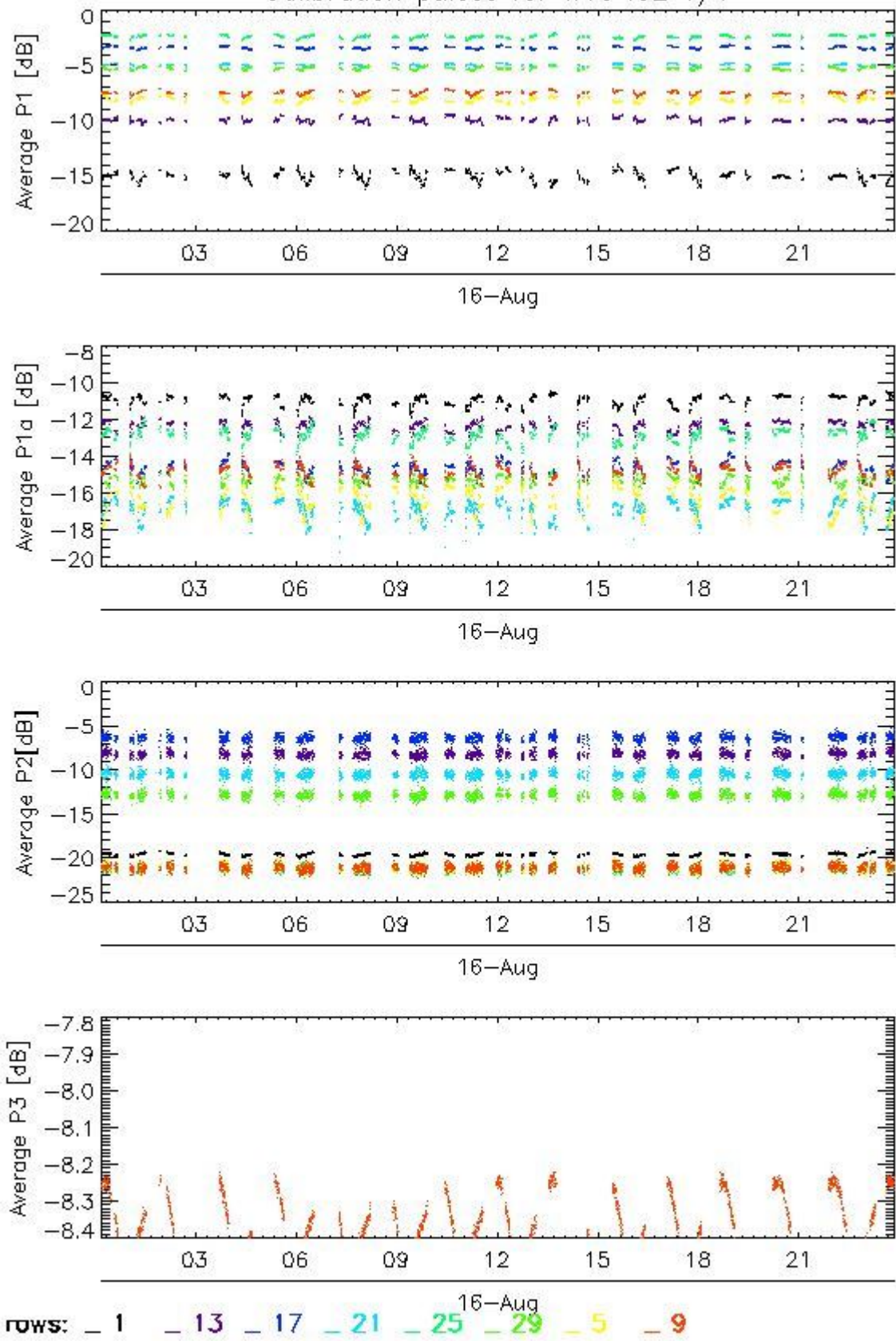
4.1.1 - Temporal Evolution Analysis for WVS IS2 V/V

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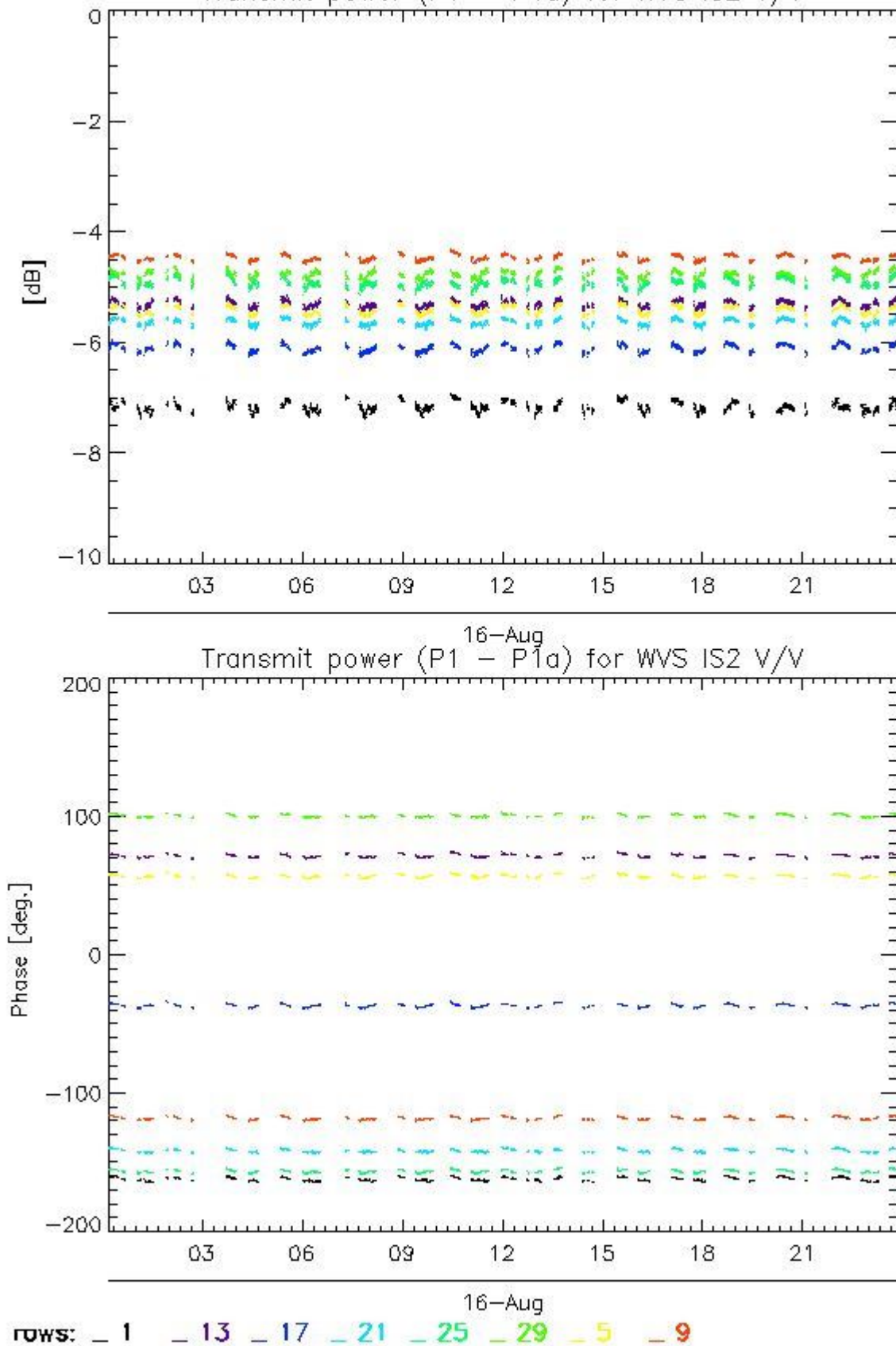
Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]

Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]

Calibration pulses for WVS IS2 V/V



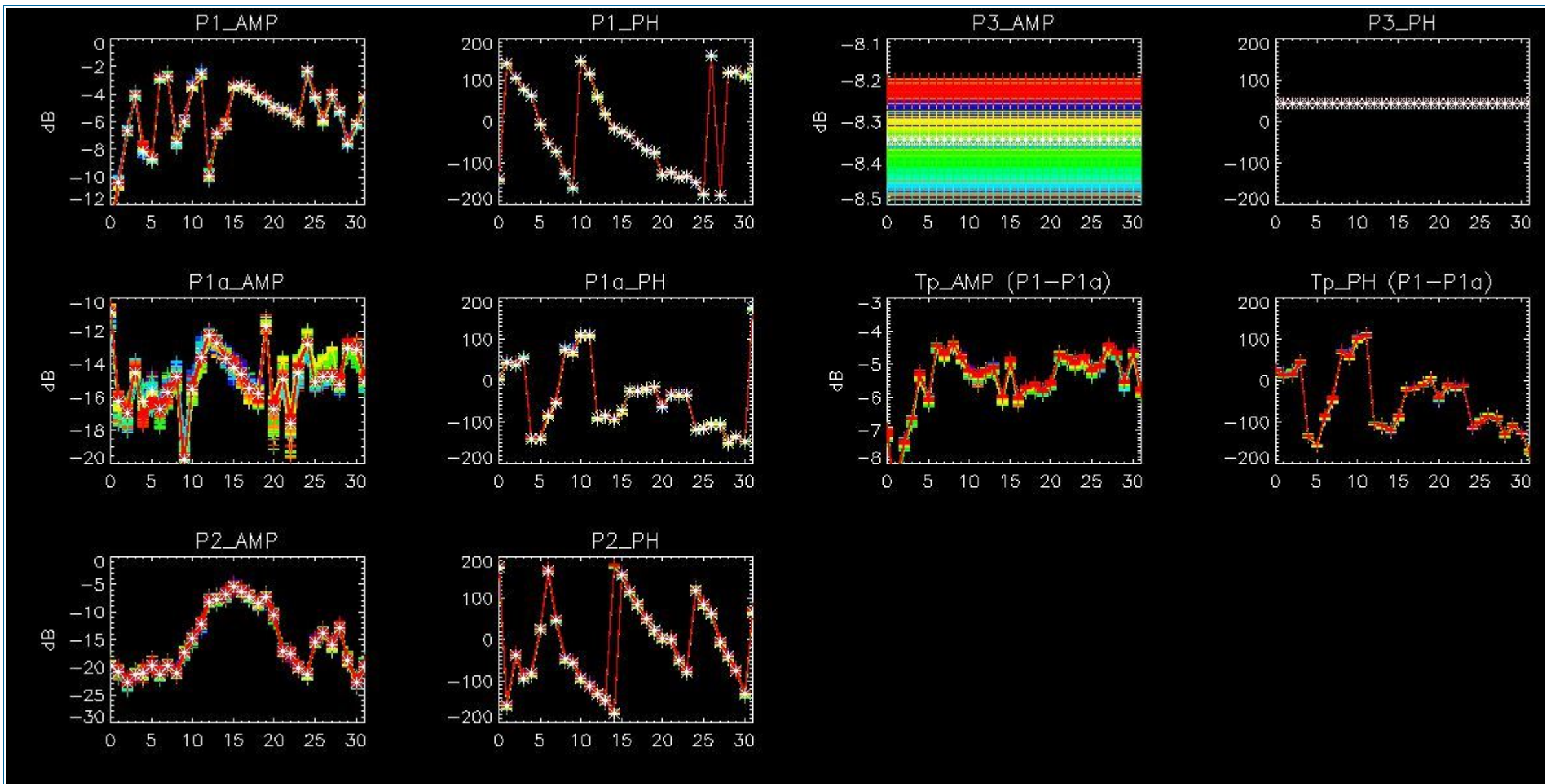
Transmit power (P1 - P1a) for WVS IS2 V/V



4.1.2 - All Rows Analysis for WVS IS2 V/V

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4.2 - Analysis for GM1 SS3 H/H

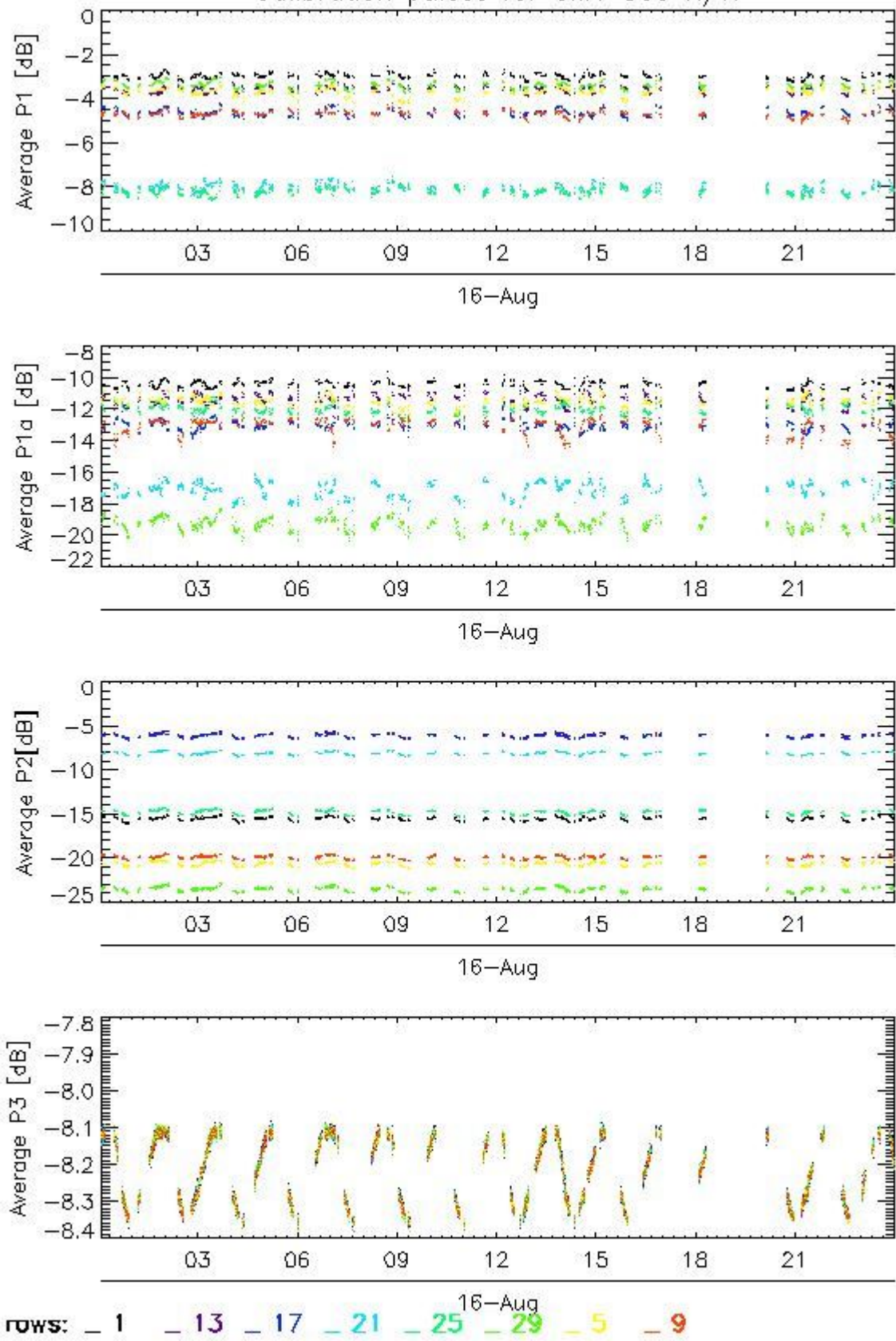
4.2.1 - Temporal Evolution Analysis for GM1 SS3 H/H

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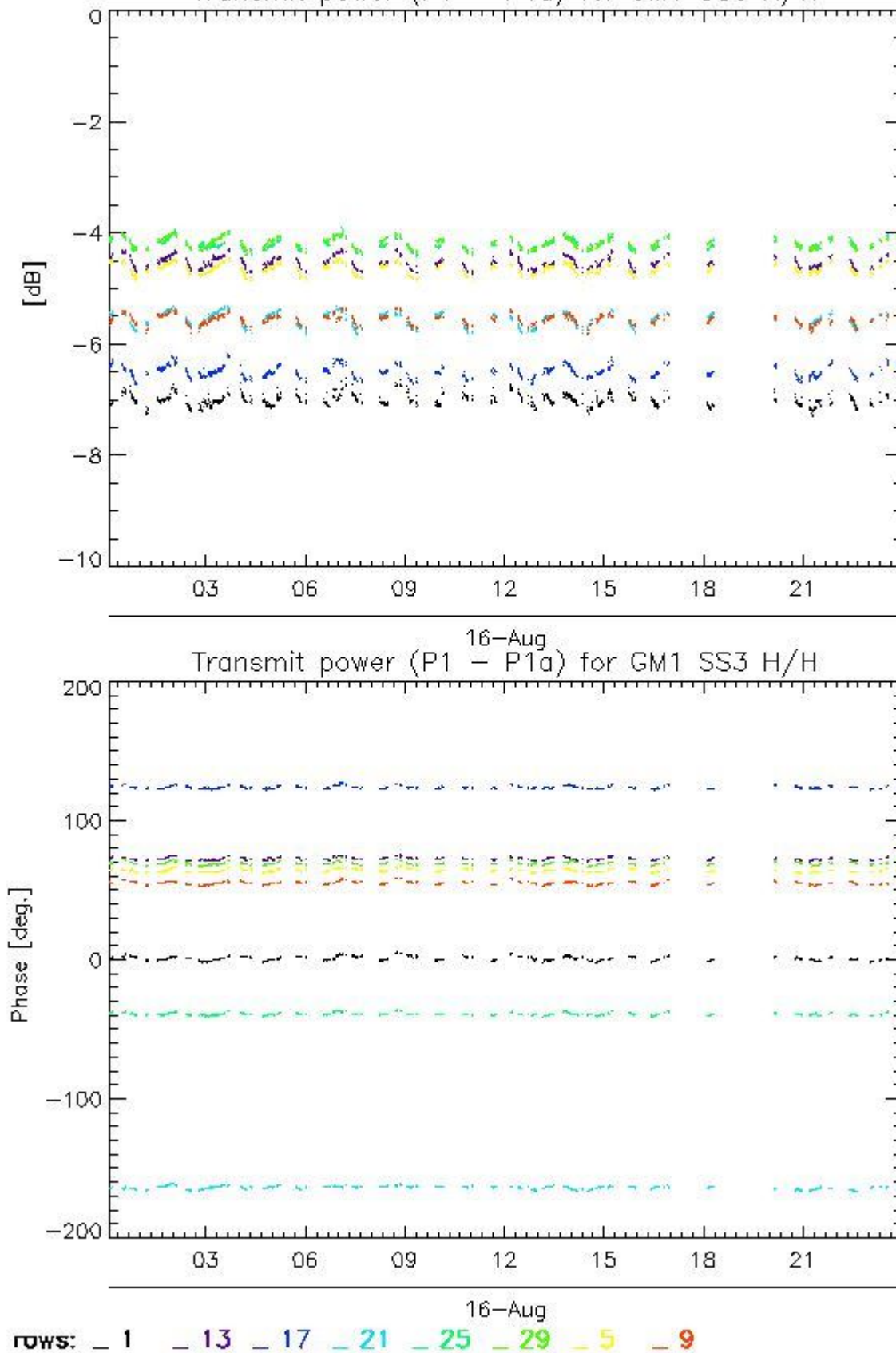
Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]

Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]

Calibration pulses for GM1 SS3 H/H



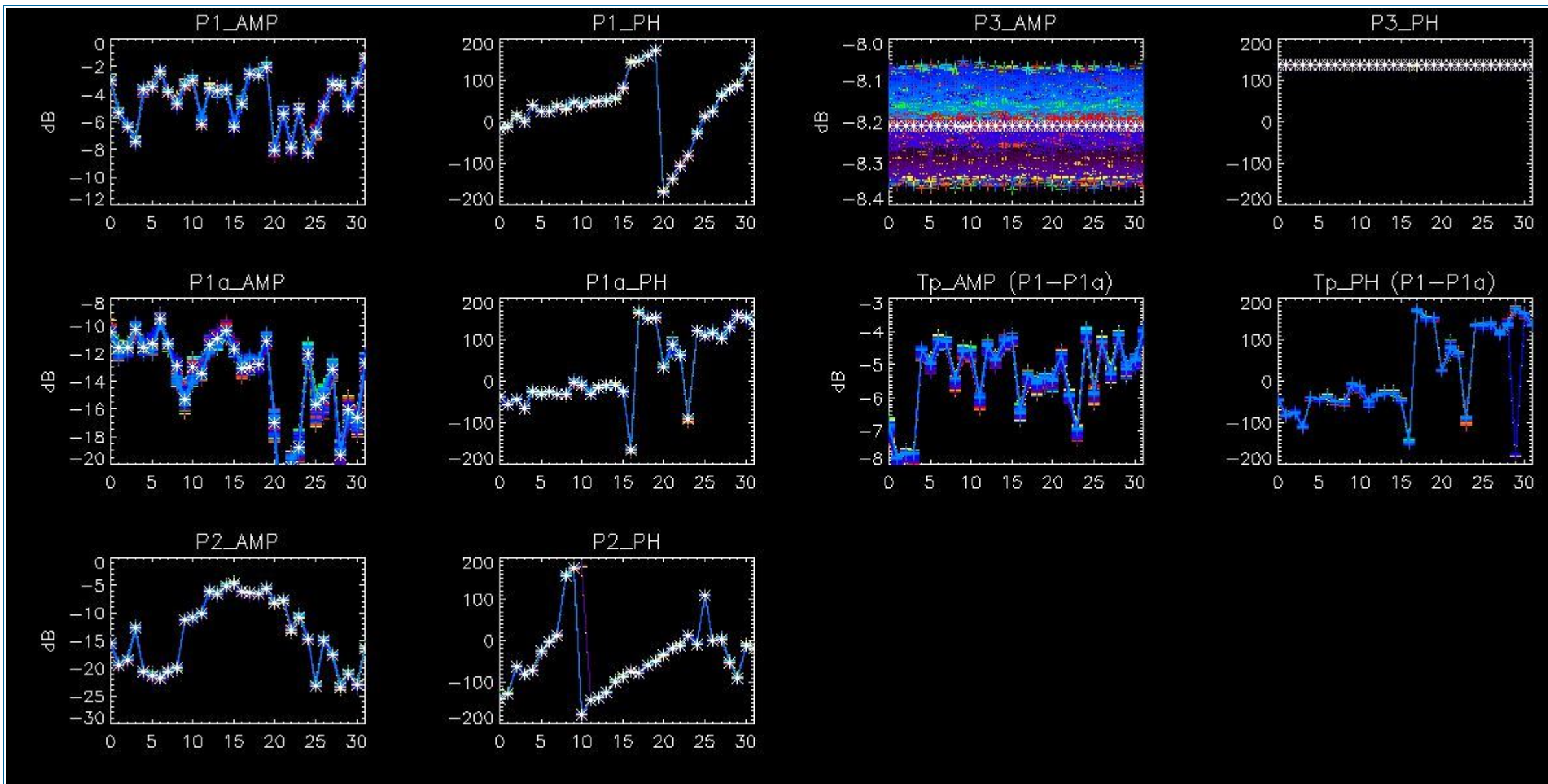
Transmit power (P1 - P1a) for GM1 SS3 H/H



4.2.2 - All Rows Analysis for GM1 SS3 H/H

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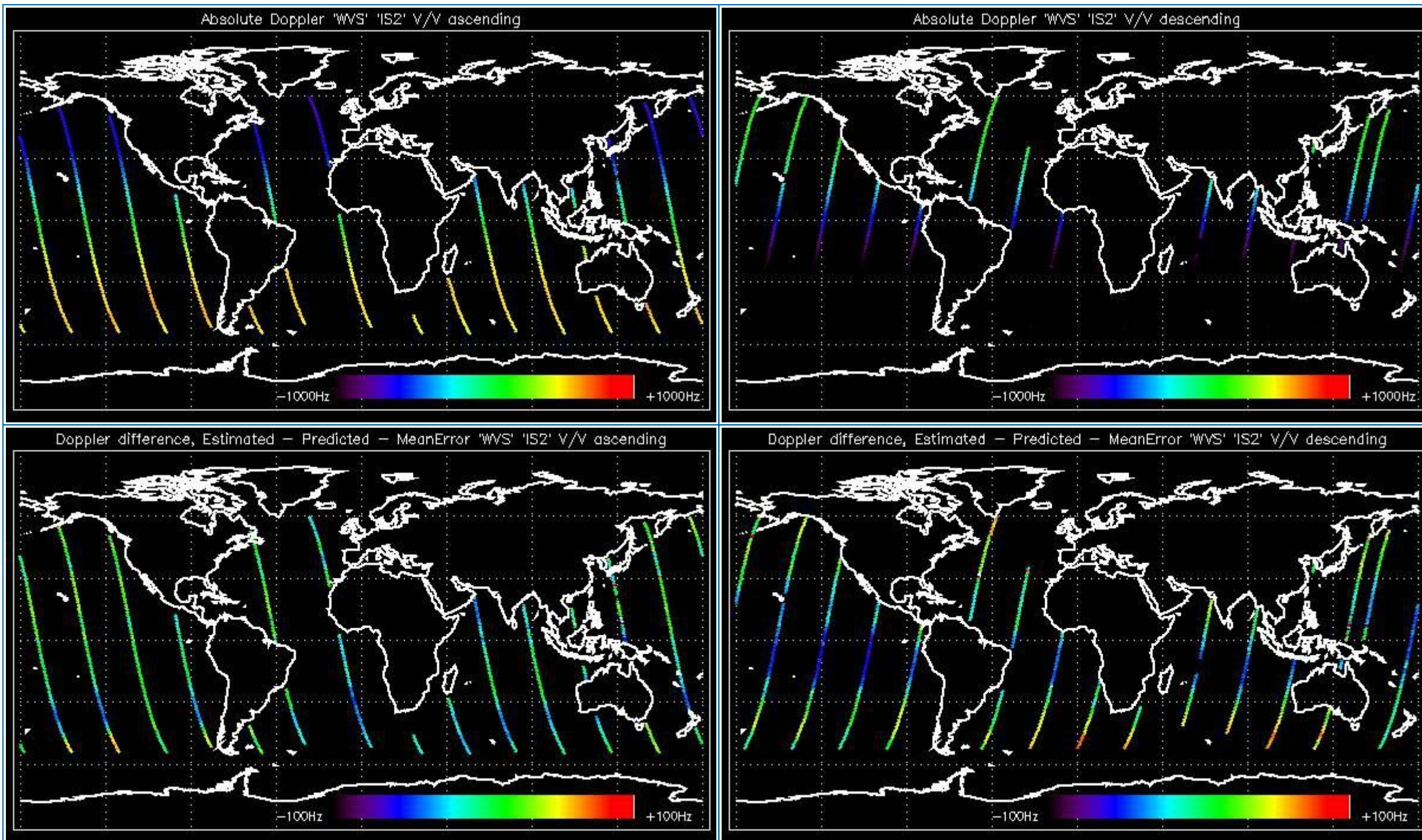
5 - DOPPLER ANALYSIS

5.1 - Analysis for WVS IS2 V/V

5.1.1 - Doppler MAP Analysis for WVS IS2 V/V

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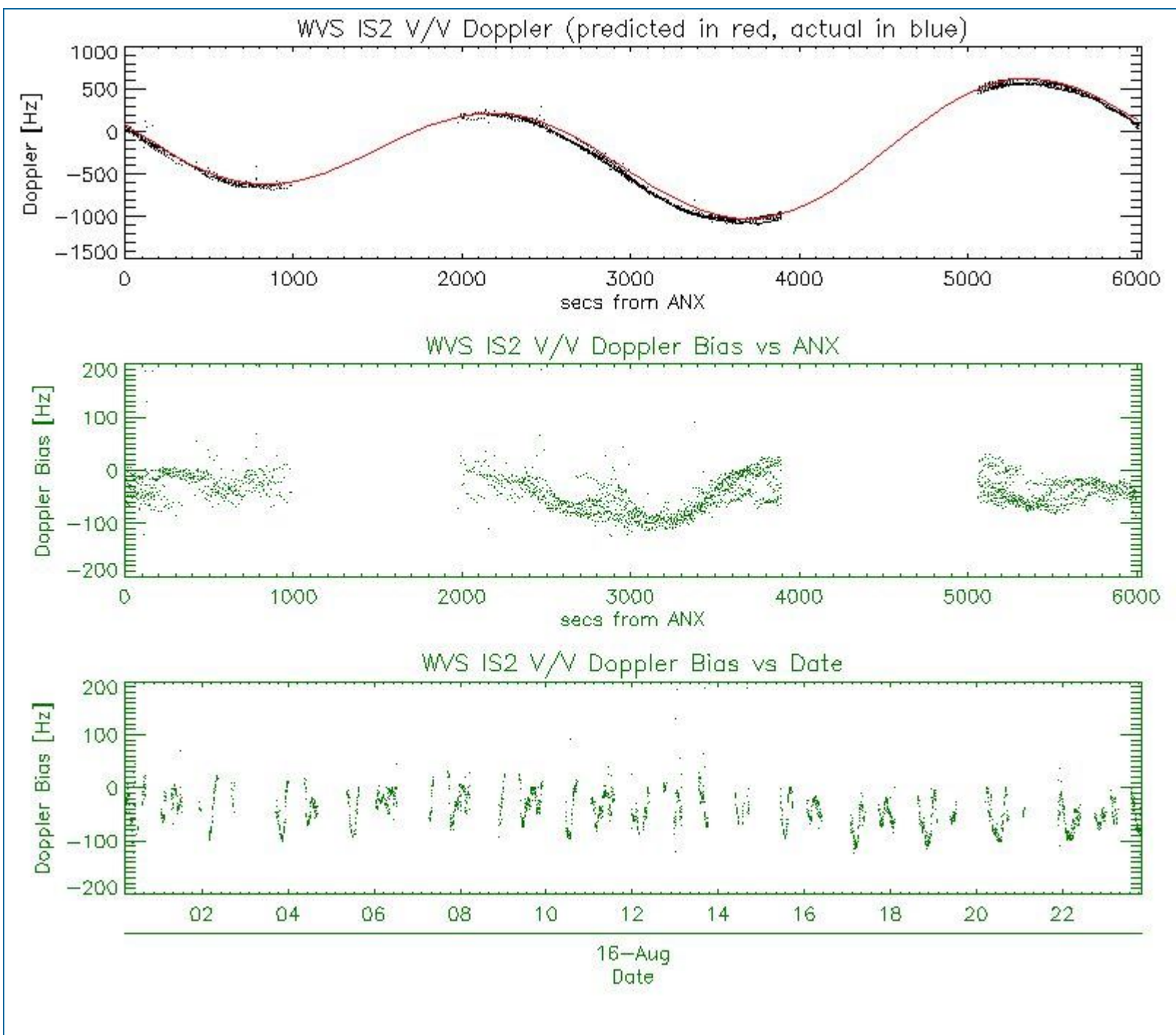




5.1.2 - Doppler ANX Analysis for WVS IS2 V/V

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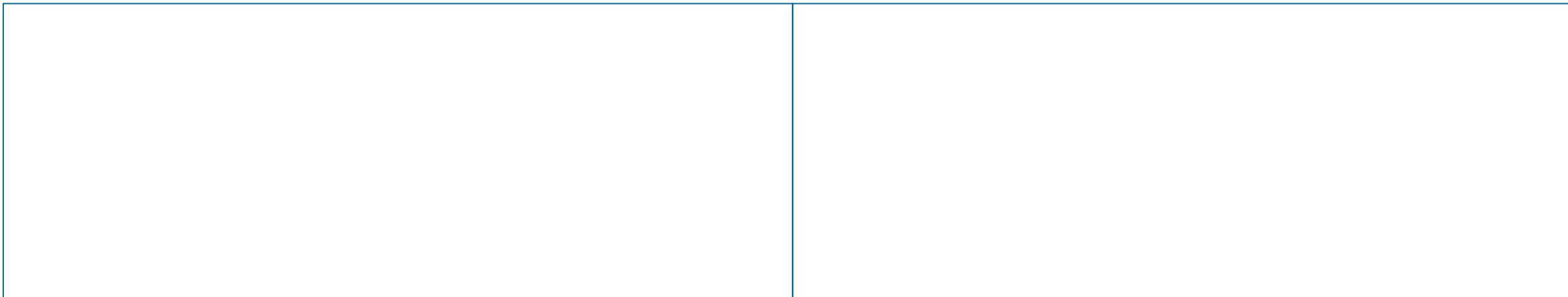


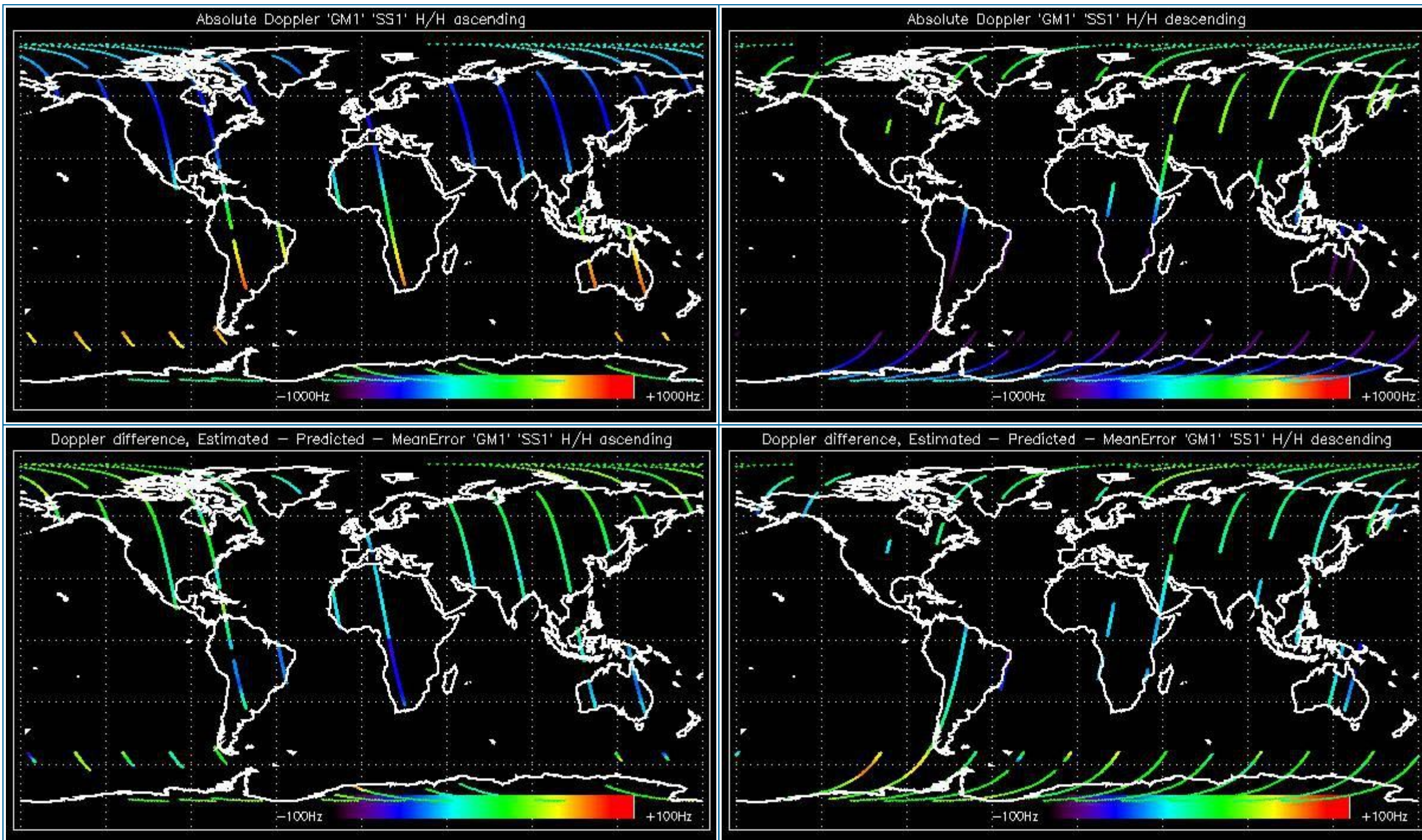


5.2 - Analysis for GM1 SS1 H/H

5.2.1 - Doppler MAP Analysis for GM1 SS1 H/H

[[BACK TO MENU](#)]

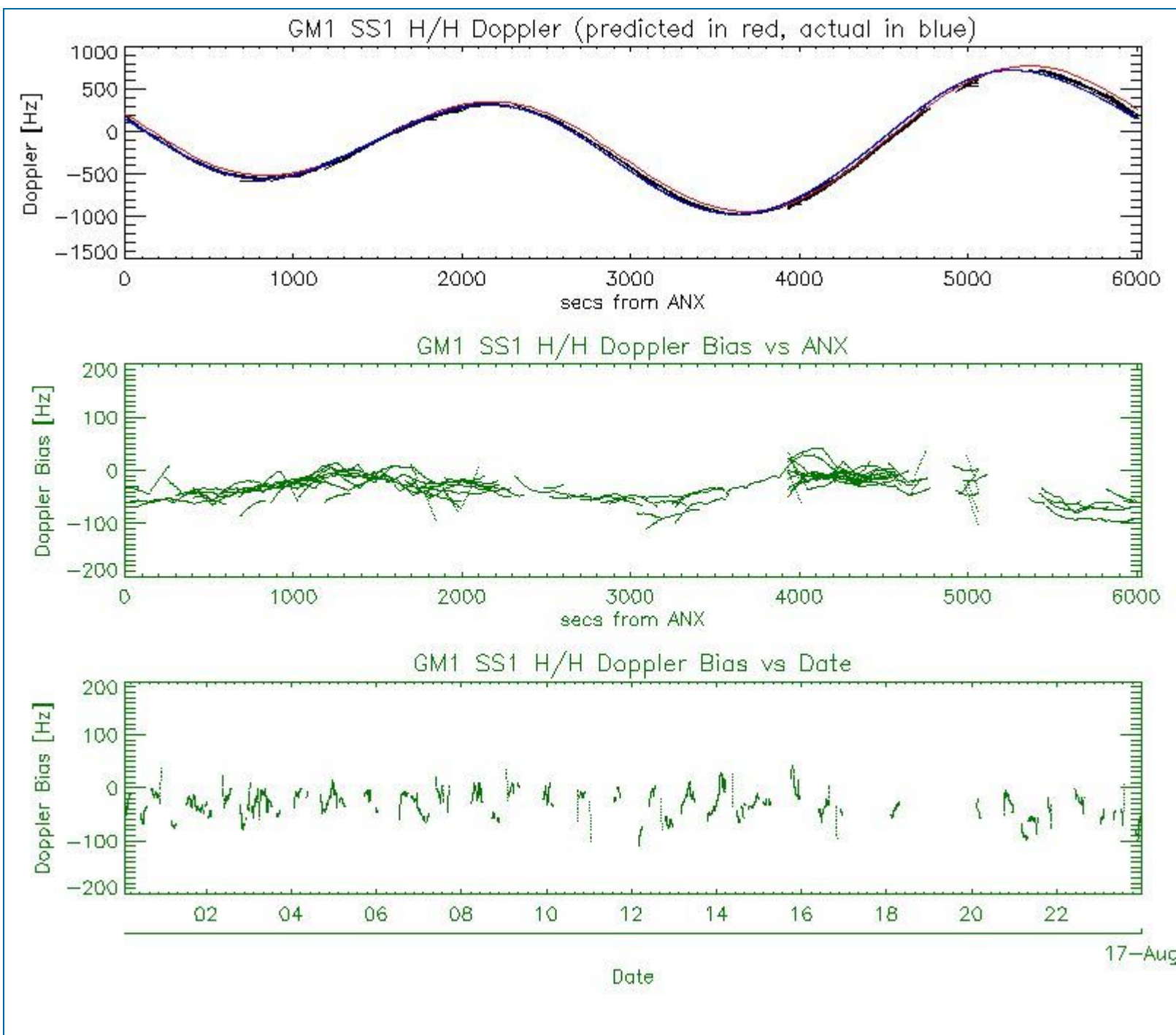




5.2.2 - Doppler ANX Analysis for GM1 SS1 H/H

[[BACK TO MENU](#)]

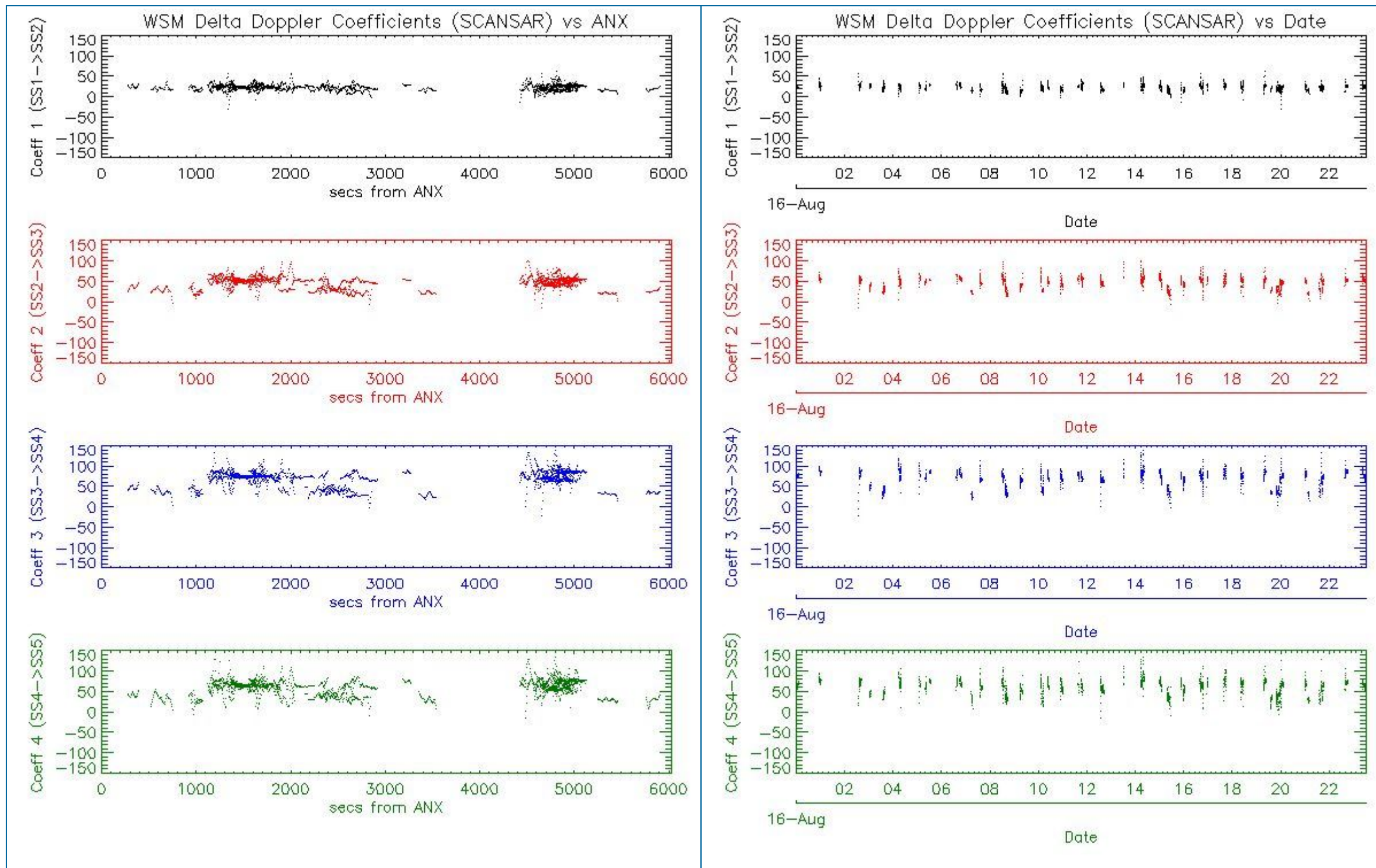




5.3 - Doppler JUMPS Analysis for WSM

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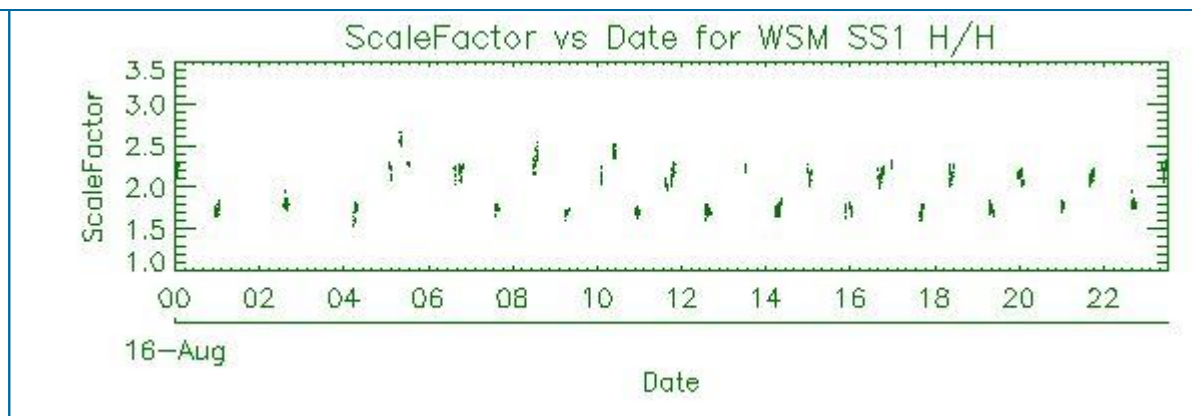
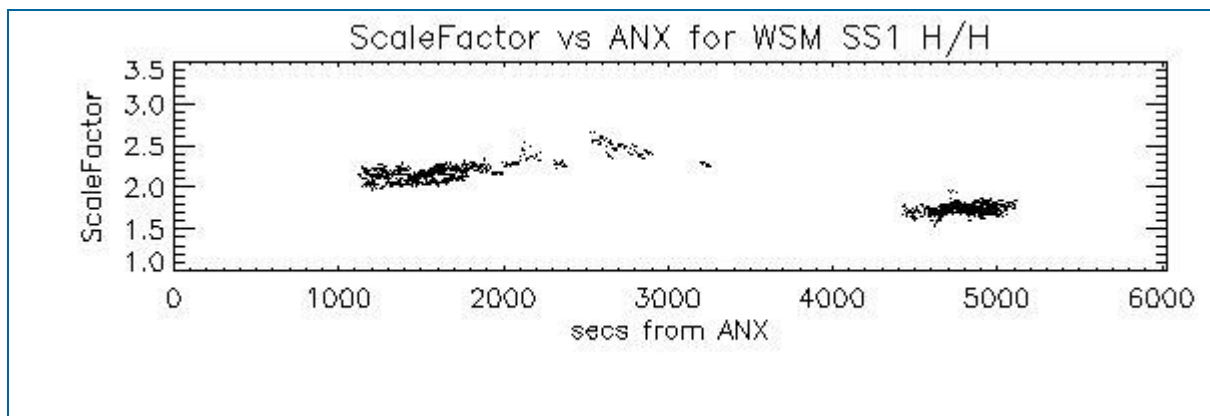
6 - CHIRP ANALYSIS

6.1 - Analysis for WSM SS1 H/H

6.1.1 - ScaleFactor

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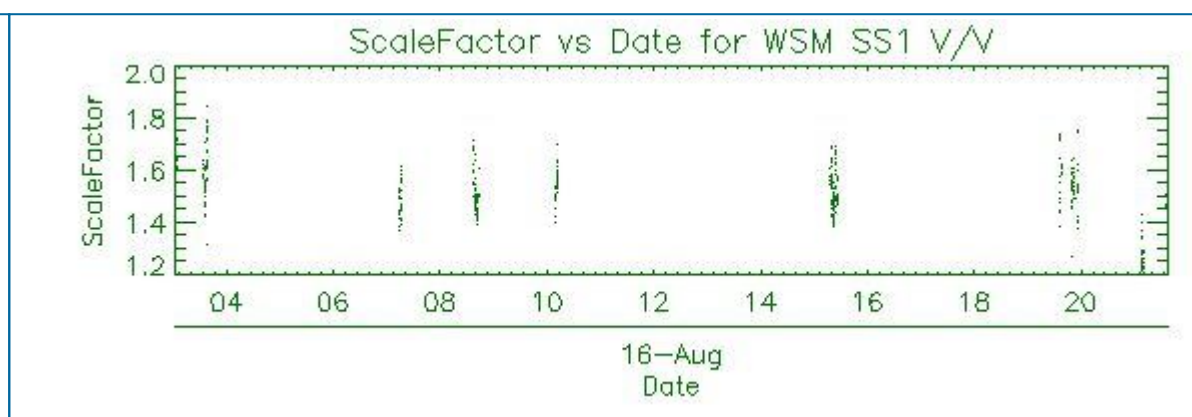
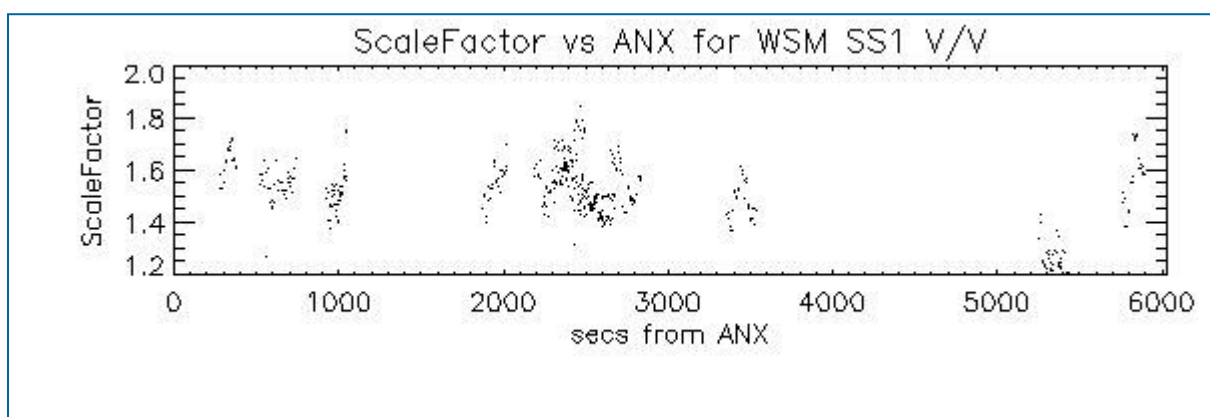




6.2 - Analysis for WSM SS1 V/V

6.2.1 - ScaleFactor

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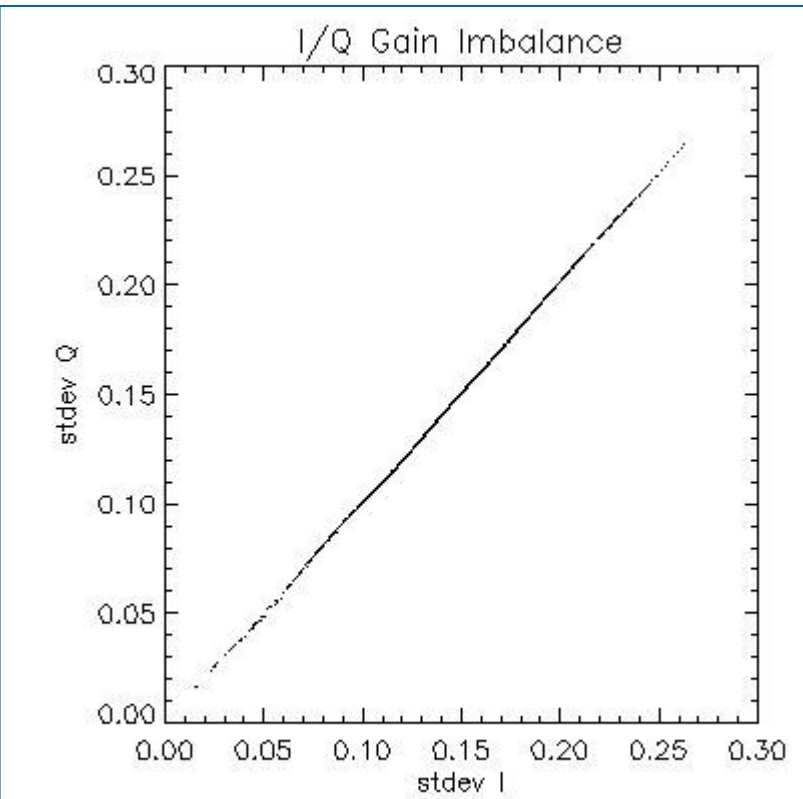
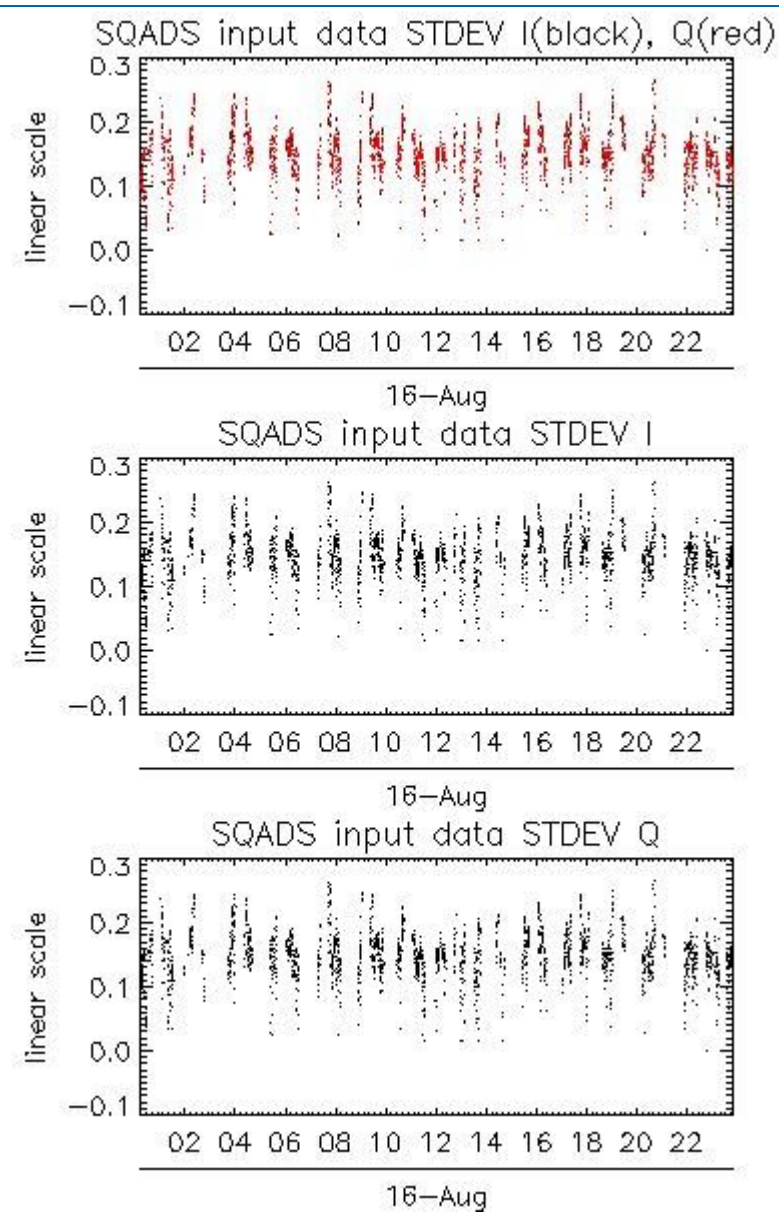
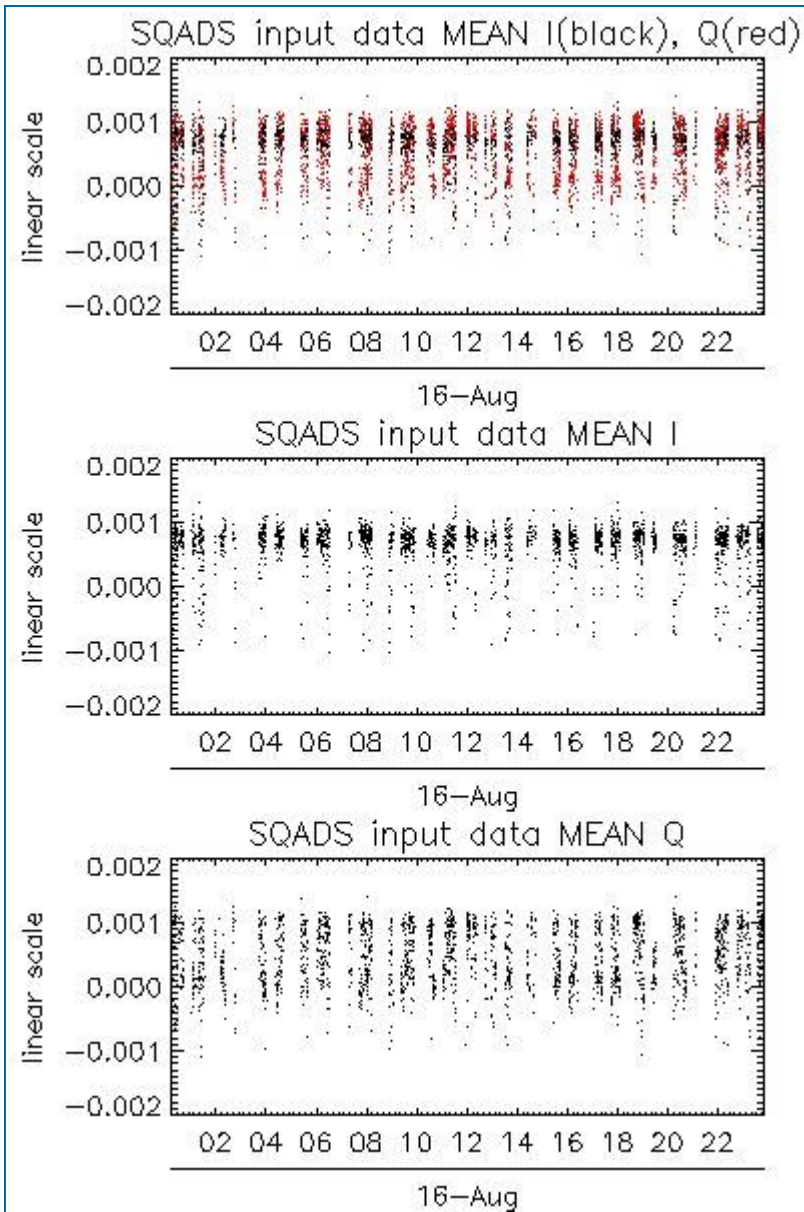


7 - RAW DATA ANALYSIS

7.1 - Analysis for WVS

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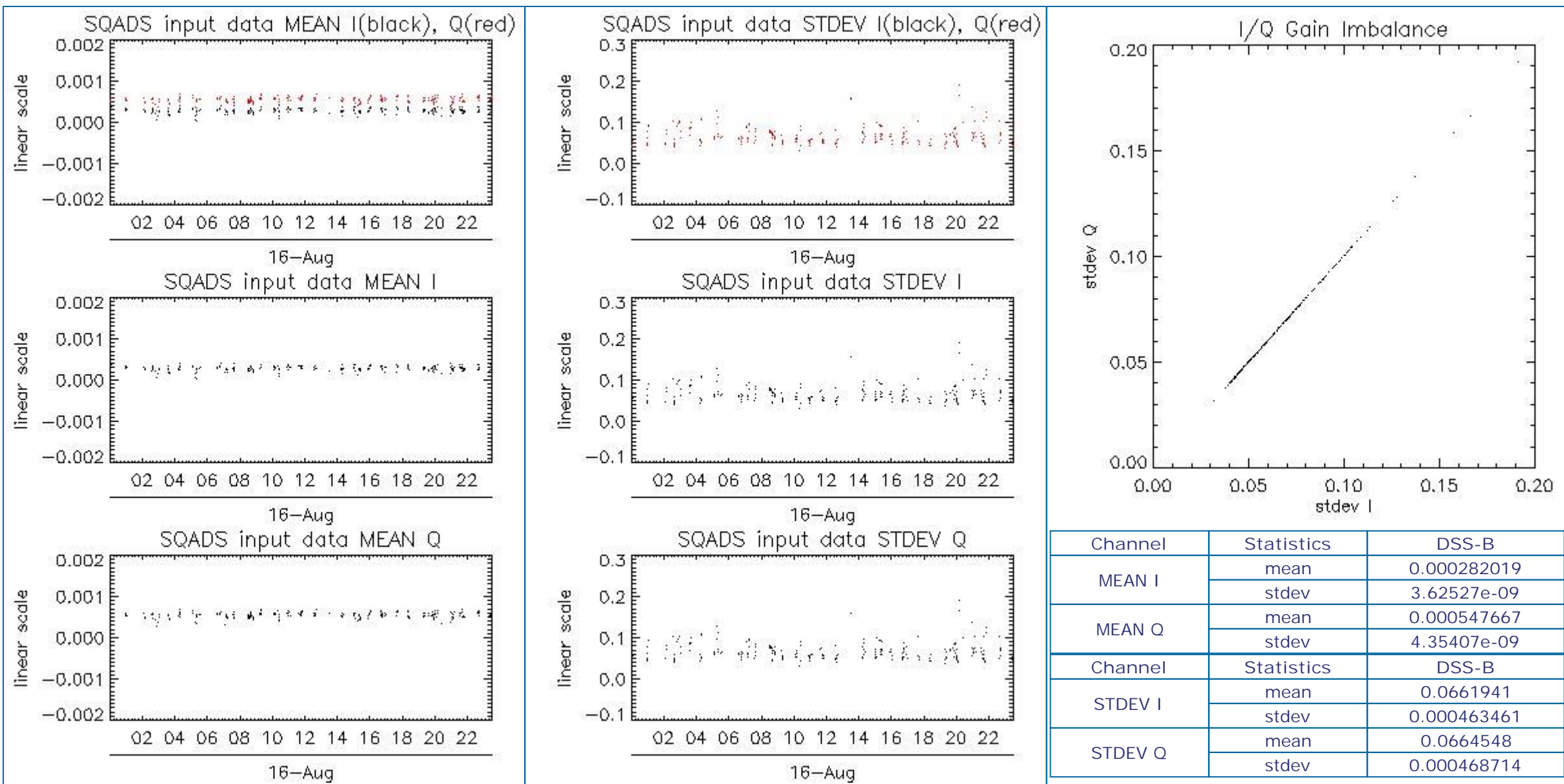


Channel	Statistics	DSS-B
MEAN I	mean	0.000632435
	stdev	1.23665e-07
MEAN Q	mean	0.000480379
	stdev	2.12582e-07
Channel	Statistics	DSS-B
STDEV I	mean	0.149176
	stdev	0.00139734
STDEV Q	mean	0.149731
	stdev	0.00142476

7.2 - Analysis for IMM

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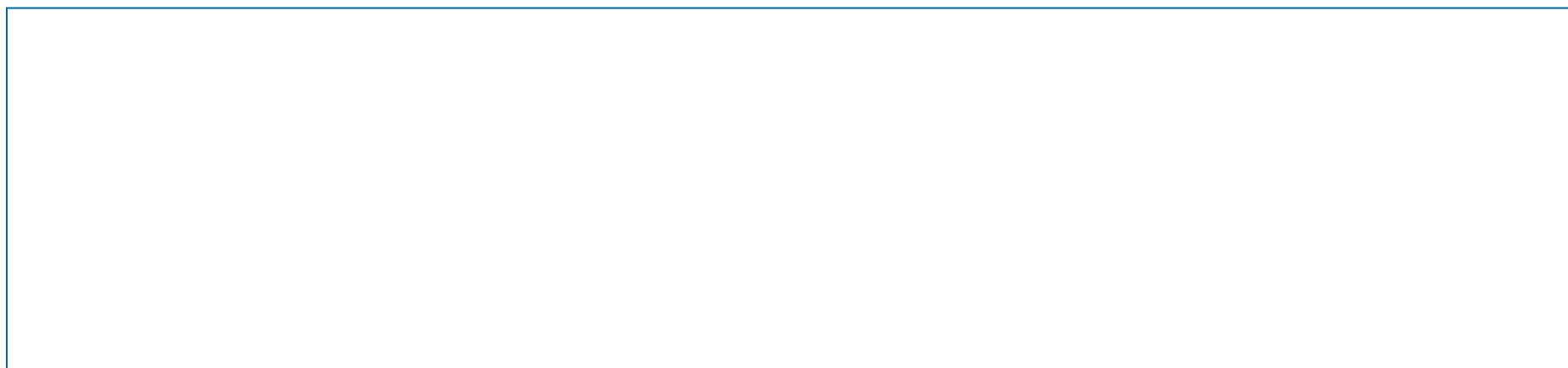


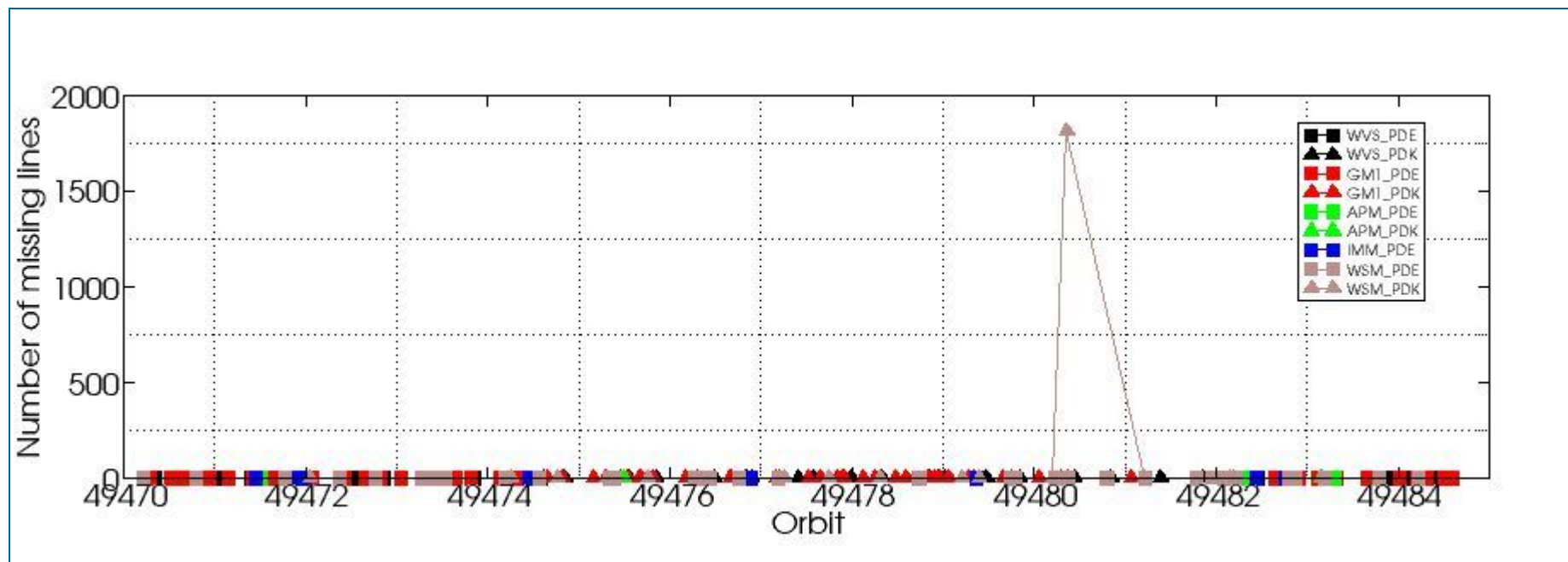
8 - TELEMETRY ANALYSIS

Processing Center	Product	Gaps	Missing lines
PDE	ASA_WSM_1PNPDE20110816_193531_000001533105_00329_49481_9137.N1	0	1
PDK	ASA_WSM_1PNPDK20110816_151813_000005143105_00327_49479_6659.N1	0	3
PDK	ASA_WSM_1PNPDK20110816_165511_000000363105_00328_49480_6671.N1	45	1812

8.1 - Number of Missing lines

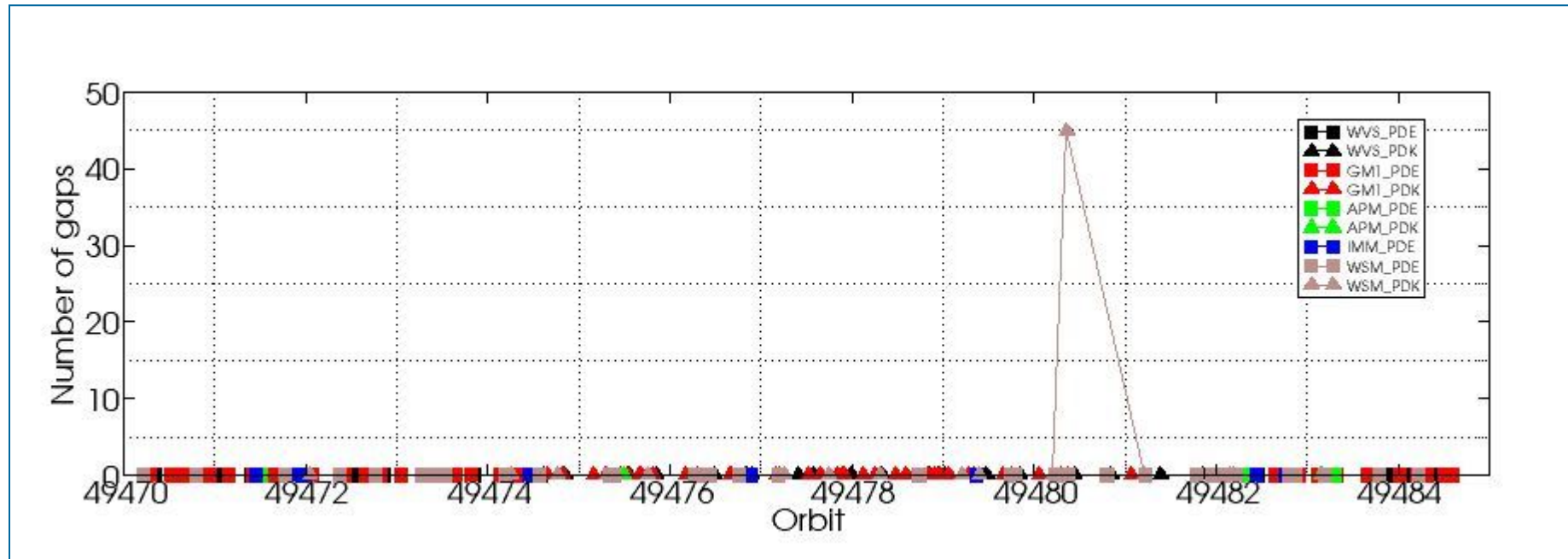
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8.2 - Number of Gaps

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ASAR DAILY REPORT for 110816
#####

MODE: DAILY
ANALYSIS: ALL
DATE: 2011-08-16 00:00:00

Analysis will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110816/

DATA SUMMARY

Summary will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110816/DATA_SUMMARY

Creating directory ./RESULTS/DAILY/_110816/DATA_SUMMARY...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/Data_summary.html...

Getting WVS products list from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_WVS_products_used.xls...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_WVS_products_used.txt...

Getting GM1 products list from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_GM1_products_used.xls...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_GM1_products_used.txt...

Getting APM products list from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_APM_products_used.xls...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_APM_products_used.txt...

Getting IMM products list from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_IMM_products_used.xls...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_IMM_products_used.txt...

Getting WSM products list from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_WSM_products_used.xls...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_WSM_products_used.txt...

Getting MS products list from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_MS_products_used.xls...
Writing file ./RESULTS/DAILY/_110816/DATA_SUMMARY/List_MS_products_used.txt...

DATA SUMMARY completed
#####

AUXILIARY FILES ANALYSIS

Analysis will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110816/AUXILIARY

Creating directory ./RESULTS/DAILY/_110816/AUXILIARY...

Looking for the IECF operational ADFs list...



ADF filter 20110816*current_3_IECF_ADFs.txt
No IECF ADFs list available for the selected period...

Writing file ./RESULTS/DAILY/_110816/AUXILIARY/ASAR_ADFs_IECF_List3.html...

AUXILIARY FILES ANALYSIS completed
#####

MODULE STEPPING ANALYSIS

Analysis will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110816/MODULE_STEPPING

Creating directory ./RESULTS/DAILY/_110816/MODULE_STEPPING...
Creating directory ./RESULTS/DAILY/_110816/MODULE_STEPPING/FIRST_REFERENCE...
Creating directory ./RESULTS/DAILY/_110816/MODULE_STEPPING/SECOND_REFERENCE...
Creating directory ./RESULTS/DAILY/_110816/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE...
Deleting old files...

Creating images comparing with second reference...

Exporting results to the directory ../../RESULTS/DAILY/_110816/MODULE_STEPPING/SECOND_REFERENCE...

Polarization: H
Reference product: ASA_MS__0PNPDK20010209_135042_0000009A024_00180_11700_0052.N1
Test product: ASA_MS__0PNPDK20110816_090512_000000163105_00323_49475_0728.N1

H
H
../../RESULTS/DAILY/_110816/MODULE_STEPPING/SECOND_REFERENCE/TGH_20110816_090512-20010209_135042.png
../../RESULTS/DAILY/_110816/MODULE_STEPPING/SECOND_REFERENCE/TPH_20110816_090512-20010209_135042.png
../../RESULTS/DAILY/_110816/MODULE_STEPPING/SECOND_REFERENCE/RGH_20110816_090512-20010209_135042.png
../../RESULTS/DAILY/_110816/MODULE_STEPPING/SECOND_REFERENCE/RPH_20110816_090512-20010209_135042.png

Polarization: V
Reference product: ASA_MS__0PNPDK20010209_140823_0000009A024_00180_11700_0054.N1
Test product: ASA_MS__0PNPDK20110816_104526_000000163105_00324_49476_0729.N1

V
V
../../RESULTS/DAILY/_110816/MODULE_STEPPING/SECOND_REFERENCE/TGV_20110816_104526-20010209_140823.png
../../RESULTS/DAILY/_110816/MODULE_STEPPING/SECOND_REFERENCE/TPV_20110816_104526-20010209_140823.png
../../RESULTS/DAILY/_110816/MODULE_STEPPING/SECOND_REFERENCE/RGV_20110816_104526-20010209_140823.png
../../RESULTS/DAILY/_110816/MODULE_STEPPING/SECOND_REFERENCE/RPV_20110816_104526-20010209_140823.png

Creating images comparing with previous product reference...

Exporting results to the directory ../../RESULTS/DAILY/_110816/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE...

Polarization: H
Reference product: ASA_MS__0PNPDK20110815_094156_000000163105_00309_49461_0726.N1
Test product: ASA_MS__0PNPDK20110816_090512_000000163105_00323_49475_0728.N1

H
H
../../RESULTS/DAILY/_110816/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TGH_20110816_090512-20110815_094156.png
../../RESULTS/DAILY/_110816/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TPH_20110816_090512-20110815_094156.png
../../RESULTS/DAILY/_110816/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RGH_20110816_090512-20110815_094156.png
../../RESULTS/DAILY/_110816/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RPH_20110816_090512-20110815_094156.png

Polarization: V
Reference product: ASA_MS__0PNPDK20110815_112210_000000163105_00310_49462_0727.N1
Test product: ASA_MS__0PNPDK20110816_104526_000000163105_00324_49476_0729.N1

```
V
V
../RESULTS/DAILY/_110816/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TGV_20110816_104526-20110815_112210.png
../RESULTS/DAILY/_110816/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TPV_20110816_104526-20110815_112210.png
../RESULTS/DAILY/_110816/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RGV_20110816_104526-20110815_112210.png
../RESULTS/DAILY/_110816/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RPV_20110816_104526-20110815_112210.png
```

MODULE_STEPPING ANALYSIS completed

#####

CALIBRATION PULSES ANALYSIS

#####

Creating directory ./RESULTS/DAILY/_110816/CALIBRATION_PULSES...

ALL ROWS Analysis will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59

Analysing products WVS IS2 V/V

1 70433 7 70433

Writing image ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Calibration_pulses_all_rows_WVS_IS2_VV.png...

Analysing products GM1 SS3 H/H

1 40257 7 40257

Writing image ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Calibration_pulses_all_rows_GM1_SS3_HH.png...

TEMPORAL EVOLUTION Analysis will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59

Analysing products WVS IS2 V/V

Getting calibration pulses data for WVS IS2 V/V from 2011-08-16 00:00:00 to 2011-08-16 23:59:59. Rows: 1/5/9/13/17/21/25/29

Writing file ./RESULTS/DAILY/_110816/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2011-08-16_1.dat...

Writing ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_WVS_IS2_VV_1.png...

Writing ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Transmit_Power_WVS_IS2_VV_1.png...

Getting calibration pulses data for WVS IS2 V/V from 2011-08-16 00:00:00 to 2011-08-16 23:59:59. Rows: 2/6/10/14/18/22/26/30

Writing file ./RESULTS/DAILY/_110816/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2011-08-16_2.dat...

Writing ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_WVS_IS2_VV_2.png...

Writing ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Transmit_Power_WVS_IS2_VV_2.png...

Getting calibration pulses data for WVS IS2 V/V from 2011-08-16 00:00:00 to 2011-08-16 23:59:59. Rows: 3/7/11/15/19/23/27/31

Writing file ./RESULTS/DAILY/_110816/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2011-08-16_3.dat...

Writing ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_WVS_IS2_VV_3.png...

Writing ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Transmit_Power_WVS_IS2_VV_3.png...

Getting calibration pulses data for WVS IS2 V/V from 2011-08-16 00:00:00 to 2011-08-16 23:59:59. Rows: 4/8/12/16/20/24/28/32

Writing file ./RESULTS/DAILY/_110816/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2011-08-16_4.dat...

Writing ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_WVS_IS2_VV_4.png...

Writing ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Transmit_Power_WVS_IS2_VV_4.png...

Analysing products GM1 SS3 H/H

Getting calibration pulses data for GM1 SS3 H/H from 2011-08-16 00:00:00 to 2011-08-16 23:59:59. Rows: 1/5/9/13/17/21/25/29

Writing file ./RESULTS/DAILY/_110816/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2011-08-16_1.dat...

Writing ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_GM1_SS3_HH_1.png...

Writing ../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Transmit_Power_GM1_SS3_HH_1.png...

Getting calibration pulses data for GM1 SS3 H/H from 2011-08-16 00:00:00 to 2011-08-16 23:59:59. Rows: 2/6/10/14/18/22/26/30

Writing file ./RESULTS/DAILY/_110816/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2011-08-16_2.dat...



Writing ../../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_GM1_SS3_HH_2.png...
 Writing ../../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Transmit_Power_GM1_SS3_HH_2.png...

Getting calibration pulses data for GM1 SS3 H/H from 2011-08-16 00:00:00 to 2011-08-16 23:59:59. Rows: 3/7/11/15/19/23/27/31
 Writing file ./RESULTS/DAILY/_110816/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2011-08-16_3.dat...
 Writing ../../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_GM1_SS3_HH_3.png...
 Writing ../../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Transmit_Power_GM1_SS3_HH_3.png...

Getting calibration pulses data for GM1 SS3 H/H from 2011-08-16 00:00:00 to 2011-08-16 23:59:59. Rows: 4/8/12/16/20/24/28/32
 Writing file ./RESULTS/DAILY/_110816/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2011-08-16_4.dat...
 Writing ../../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_GM1_SS3_HH_4.png...
 Writing ../../RESULTS/DAILY/_110816//CALIBRATION_PULSES/Transmit_Power_GM1_SS3_HH_4.png...

CALIBRATION PULSES ANALYSIS completed
 #####

DOPPLER ANALYSIS
 #####
 Creating directory ./RESULTS/DAILY/_110816/DOPPLER...

 DOPPLER ANX Analysis will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59

Analysing products WVS IS2 V/V
 Getting doppler data for WVS IS2 V/V from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
 Writing file ./RESULTS/DAILY/_110816/DOPPLER/Doppler_data_WVS_IS2_VV_2011-08-16.dat...
 Running IDL program...
 Writing file ../../RESULTS/DAILY/_110816/DOPPLER/DOPPLER_ANX_WVS_IS2_VV.png...

Analysing products GM1 SS1 H/H
 Getting doppler data for GM1 SS1 H/H from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
 Writing file ./RESULTS/DAILY/_110816/DOPPLER/Doppler_data_GM1_SS1_HH_2011-08-16.dat...
 Running IDL program...
 Writing file ../../RESULTS/DAILY/_110816/DOPPLER/DOPPLER_ANX_GM1_SS1_HH.png...

 DOPPLER JUMPS Analysis will be performed on WSM products from 2011-08-16 00:00:00 to 2011-08-16 23:59:59

Analysing by default products WSM
 Getting doppler jumps data for WSM from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
 Writing file ./RESULTS/DAILY/_110816/DOPPLER/Doppler_Jumps_data_WSM_2011-08-16.dat...
 Running IDL program...
 Writing file ../../RESULTS/DAILY/_110816/DOPPLER/DOPPLER_JUMPS_ANX_WSM.png...
 Writing file ../../RESULTS/DAILY/_110816/DOPPLER/DOPPLER_JUMPS_Date_WSM.png...

 DOPPLER MAP Analysis will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59

Analysing products WVS IS2 V/V

1107
 Loading predicted doppler values....
 ./PREDICTED_DOPPLER/doppler.WV_2
 87.7758
 10.5846

-66.5771
-142.520
-216.086
-286.172
-351.735
-411.816
-465.557
-512.209
-551.146
-581.874
-604.040
-617.434
-621.993
-617.804
-605.099
-584.252
-555.770
-520.289
-478.560
-431.434
-379.856
-324.838
-267.455
-208.814
-150.050
-92.2908
-36.6568
15.7690
63.9616
106.958
143.888
173.973
196.555
211.098
217.196
214.587
203.150
182.918
154.068
116.919
71.9387
19.7218
-39.0043
-103.408
-172.552
-245.410
-320.887
-397.839
-475.084
-551.423
-625.659
-696.616
-763.167
-824.227
-878.795
-925.960
-964.912
-994.961
-1015.54
-1026.24
-1026.75
-1016.96
-996.863
-966.640
-926.597
-877.190
-819.014
-752.784

-679.341
-599.625
-514.669
-425.588
-333.549
-239.763
-145.472
-51.9192
39.6591
128.055
212.107
290.720
362.878
427.653
484.231
531.914
570.135
598.464
616.615
624.452
621.987
609.384
586.949
555.141
514.541
465.868
409.943
347.705
280.167
208.420
133.607
87.7758

Phase: descending

Found data...

Computing mean error doppler estimated-predicted...

Mean error = -48.750270 Hz

Writing file ../../RESULTS/DAILY/_110816//DOPPLER/DOPPLER_Estimated-Predicted-MeanError_WVS_IS2_VV_desc.jpg...

Writing file ../../RESULTS/DAILY/_110816//DOPPLER/DOPPLER_Absolute_WVS_IS2_VV_desc.jpg...

1096

Loading predicted doppler values....

./PREDICTED_DOPPLER/doppler.WV_2

87.7758
10.5846
-66.5771
-142.520
-216.086
-286.172
-351.735
-411.816
-465.557
-512.209
-551.146
-581.874
-604.040
-617.434
-621.993
-617.804
-605.099
-584.252
-555.770
-520.289
-478.560
-431.434
-379.856
-324.838

-267.455
-208.814
-150.050
-92.2908
-36.6568
15.7690
63.9616
106.958
143.888
173.973
196.555
211.098
217.196
214.587
203.150
182.918
154.068
116.919
71.9387
19.7218
-39.0043
-103.408
-172.552
-245.410
-320.887
-397.839
-475.084
-551.423
-625.659
-696.616
-763.167
-824.227
-878.795
-925.960
-964.912
-994.961
-1015.54
-1026.24
-1026.75
-1016.96
-996.863
-966.640
-926.597
-877.190
-819.014
-752.784
-679.341
-599.625
-514.669
-425.588
-333.549
-239.763
-145.472
-51.9192
39.6591
128.055
212.107
290.720
362.878
427.653
484.231
531.914
570.135
598.464
616.615
624.452
621.987
609.384

586.949
555.141
514.541
465.868
409.943
347.705
280.167
208.420
133.607
87.7758

Phase: ascending

Found data...

Computing mean error doppler estimated-predicted...

Mean error = -32.447757 Hz

Writing file ../../RESULTS/DAILY/_110816//DOPPLER/DOPPLER_Estimated-Predicted-MeanError_WVS_IS2_VV_asc.jpg...

Writing file ../../RESULTS/DAILY/_110816//DOPPLER/DOPPLER_Absolute_WVS_IS2_VV_asc.jpg...

Analysing products GM1 SS1 H/H

2643

Loading predicted doppler values....

./PREDICTED_DOPPLER/doppler.GM_1

216.826
136.479
56.1549
-22.9067
-99.5006
-172.474
-240.743
-303.307
-359.271
-407.856
-448.408
-480.415
-503.506
-517.465
-522.225
-517.876
-504.660
-482.966
-453.319
-416.384
-372.939
-323.868
-270.156
-212.854
-153.080
-91.9846
-30.7489
29.4535
87.4579
142.137
192.422
237.312
275.898
307.370
331.039
346.345
352.861
350.313
338.571
317.665
287.775
249.231
202.516

148.246
87.1750
20.1678
-51.8021
-127.666
-206.286
-286.470
-366.984
-446.581
-524.012
-598.050
-667.520
-731.288
-788.309
-837.633
-878.414
-909.930
-931.592
-942.955
-943.721
-933.748
-913.049
-881.794
-840.306
-789.059
-728.670
-659.882
-583.571
-500.712
-412.383
-319.741
-224.000
-126.420
-28.2956
69.0819
164.424
256.474
344.022
425.926
501.129
568.661
627.675
677.441
717.367
747.001
766.044
774.352
771.933
758.957
735.740
702.757
660.611
610.049
551.927
487.220
416.983
342.352
264.518
216.826

Phase: descending

Found data...

Computing mean error doppler estimated-predicted...

Mean error = -26.677431 Hz

Writing file ../../RESULTS/DAILY/_110816//DOPPLER/DOPPLER_Estimated-Predicted-MeanError_GM1_SS1_HH_desc.jpg...

Writing file ../../RESULTS/DAILY/_110816//DOPPLER/DOPPLER_Absolute_GM1_SS1_HH_desc.jpg...

2386
Loading predicted doppler values....
./PREDICTED_DOPPLER/doppler.GM_1
216.826
136.479
56.1549
-22.9067
-99.5006
-172.474
-240.743
-303.307
-359.271
-407.856
-448.408
-480.415
-503.506
-517.465
-522.225
-517.876
-504.660
-482.966
-453.319
-416.384
-372.939
-323.868
-270.156
-212.854
-153.080
-91.9846
-30.7489
29.4535
87.4579
142.137
192.422
237.312
275.898
307.370
331.039
346.345
352.861
350.313
338.571
317.665
287.775
249.231
202.516
148.246
87.1750
20.1678
-51.8021
-127.666
-206.286
-286.470
-366.984
-446.581
-524.012
-598.050
-667.520
-731.288
-788.309
-837.633
-878.414
-909.930
-931.592
-942.955
-943.721
-933.748
-913.049

-881.794
-840.306
-789.059
-728.670
-659.882
-583.571
-500.712
-412.383
-319.741
-224.000
-126.420
-28.2956
69.0819
164.424
256.474
344.022
425.926
501.129
568.661
627.675
677.441
717.367
747.001
766.044
774.352
771.933
758.957
735.740
702.757
660.611
610.049
551.927
487.220
416.983
342.352
264.518
216.826

Phase: ascending
Found data...
Computing mean error doppler estimated-predicted...
Mean error = -33.933392 Hz
Writing file ../../RESULTS/DAILY/_110816//DOPPLER/DOPPLER_Estimated-Predicted-MeanError_GM1_SS1_HH_asc.jpg...
Writing file ../../RESULTS/DAILY/_110816//DOPPLER/DOPPLER_Absolute_GM1_SS1_HH_asc.jpg...

DOPPLER ANALYSIS completed
#####

CHIRP ANALYSIS

Creating directory ./RESULTS/DAILY/_110816/CHIRP...

CHIRP Analysis will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59

Analysing products WSM SS1 H/H

Getting ScaleFactor data for WSM SS1 H/H from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
Writing file ./RESULTS/DAILY/_110816/CHIRP/ScaleFactor_data_WSM_SS1_HH_2011-08-16.dat...
Running IDL program...

Writing file ../../RESULTS/DAILY/_110816/CHIRP/ScaleFactor_ANX_WSM_SS1_HH.png...
Writing file ../../RESULTS/DAILY/_110816/CHIRP/ScaleFactor_DATE_WSM_SS1_HH.png...

Analysing products WSM SS1 V/V

Getting ScaleFactor data for WSM SS1 V/V from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
Writing file ./RESULTS/DAILY/_110816/CHIRP/ScaleFactor_data_WSM_SS1_VV_2011-08-16.dat...
Running IDL program...
Writing file ../../RESULTS/DAILY/_110816/CHIRP/ScaleFactor_ANX_WSM_SS1_VV.png...
Writing file ../../RESULTS/DAILY/_110816/CHIRP/ScaleFactor_DATE_WSM_SS1_VV.png...

CHIRP ANALYSIS completed

#####

RAW DATA ANALYSIS

Analysis will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110816/RAW_DATA

Creating directory ./RESULTS/DAILY/_110816/RAW_DATA...

Getting raw data for WVS from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
Writing file ./RESULTS/DAILY/_110816/RAW_DATA/Raw_data_WVS_2011-08-16.dat...
Running IDL program to create graphs...

Creating image ../../RESULTS/DAILY/_110816/RAW_DATA/Raw_data_WVS_input_mean.png...
Creating image ../../RESULTS/DAILY/_110816/RAW_DATA/Raw_data_WVS_input_stdev.png...
Creating image ../../RESULTS/DAILY/_110816/RAW_DATA/Raw_data_WVS_gain_imbalance.png...

Getting raw data for IMM from 2011-08-16 00:00:00 to 2011-08-16 23:59:59...
Writing file ./RESULTS/DAILY/_110816/RAW_DATA/Raw_data_IMM_2011-08-16.dat...
Running IDL program to create graphs...

Creating image ../../RESULTS/DAILY/_110816/RAW_DATA/Raw_data_IMM_input_mean.png...
Creating image ../../RESULTS/DAILY/_110816/RAW_DATA/Raw_data_IMM_input_stdev.png...
Creating image ../../RESULTS/DAILY/_110816/RAW_DATA/Raw_data_IMM_gain_imbalance.png...

RAW DATA ANALYSIS completed

#####

TELEMETRY ANALYSIS

Analysis will be performed from 2011-08-16 00:00:00 to 2011-08-16 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110816/TELEMETRY

Creating directory ./RESULTS/DAILY/_110816/TELEMETRY...

Looking for gaps and missing lines in WVS products...

Checking 25 products from PDE...
Checking 21 products from PDK...

Looking for gaps and missing lines in GM1 products...

Checking 40 products from PDE...
Checking 37 products from PDK...

Looking for gaps and missing lines in APM products...

Checking 4 products from PDE...
Checking 2 products from PDK...

Looking for gaps and missing lines in IMM products...

Checking 9 products from PDE...
No products from PDK...

Looking for gaps and missing lines in WSM products...

Checking 33 products from PDE...
Found product...ASA_WSM_1PNPDE20110816_193531_000001533105_00329_49481_9137.N1 / 0 gaps / 1 missing lines
Checking 16 products from PDK...
Found product...ASA_WSM_1PNPDK20110816_151813_000005143105_00327_49479_6659.N1 / 0 gaps / 3 missing lines
Found product...ASA_WSM_1PNPDK20110816_165511_00000363105_00328_49480_6671.N1 / 45 gaps / 1812 missing lines

Creating graph of missing lines and gaps...

Creating image: ./RESULTS/DAILY/_110816/TELEMETRY/TELEMETRY_Missing_lines.png...

Creating image: ./RESULTS/DAILY/_110816/TELEMETRY/TELEMETRY_Gaps.png...

TELEMETRY ANALYSIS completed

#####

HTML REPORT generation

#####

Building file ./RESULTS/DAILY/_110816/asarReport.html...

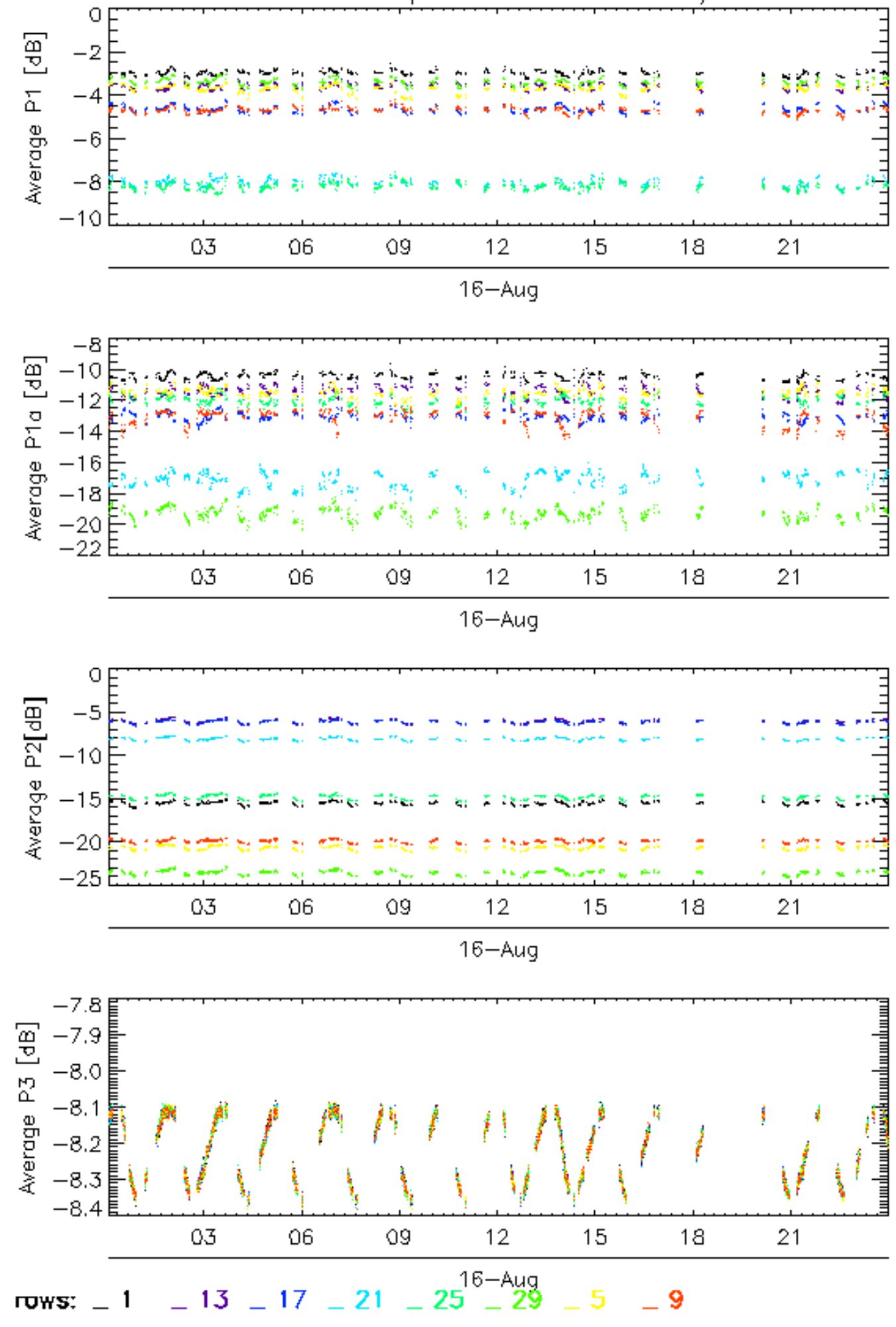
Building DATA SUMMARY section...
Building AUXILIARY FILES ANALYSIS section...
Building MODULE STEPPING ANALYSIS section...
Building CALIBRATION PULSES ANALYSIS section...
Building DOPPLER ANALYSIS section...
Building CHIRP ANALYSIS section...
Building RAW DATA ANALYSIS section...
Building TELEMETRY ANALYSIS section...

HTML REPORT generation completed

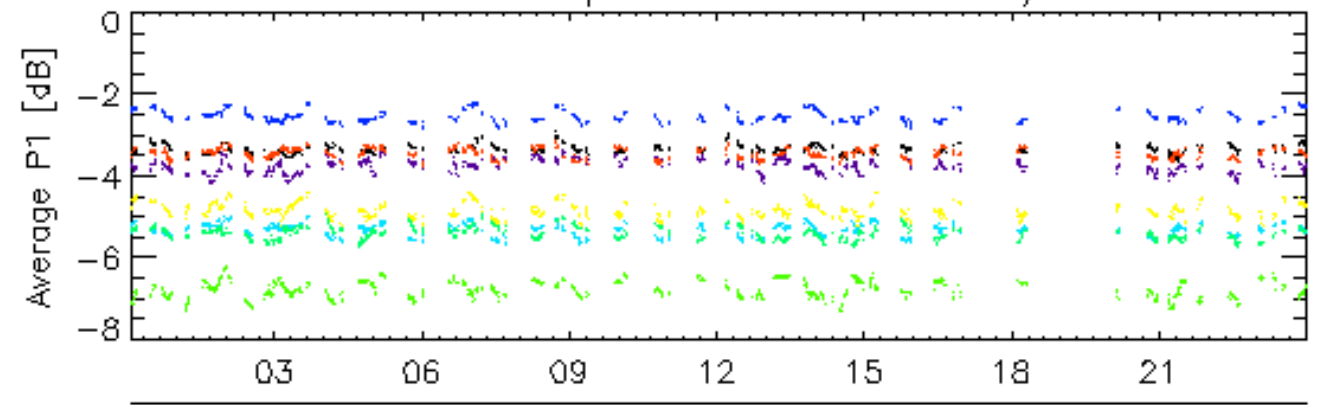
#####



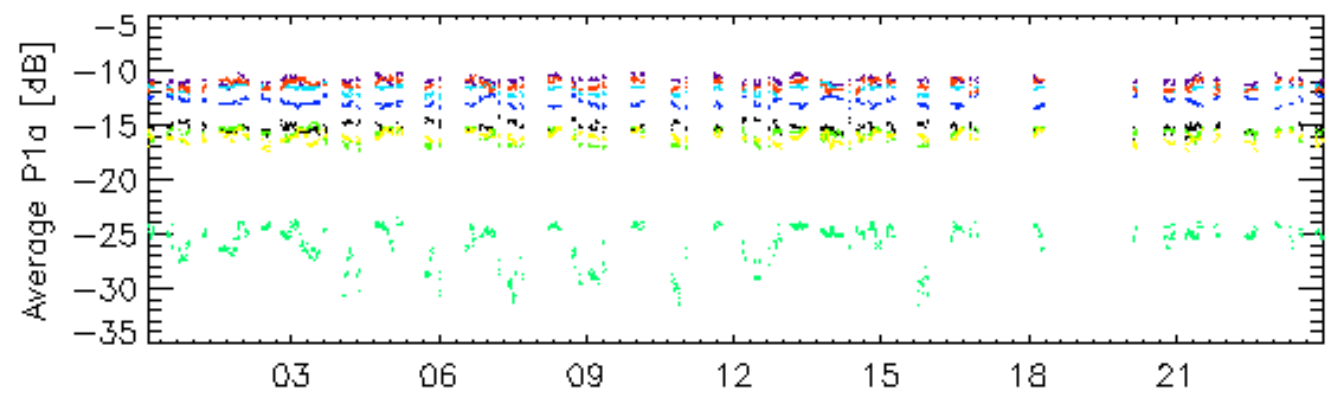
Calibration pulses for GM1 SS3 H/H



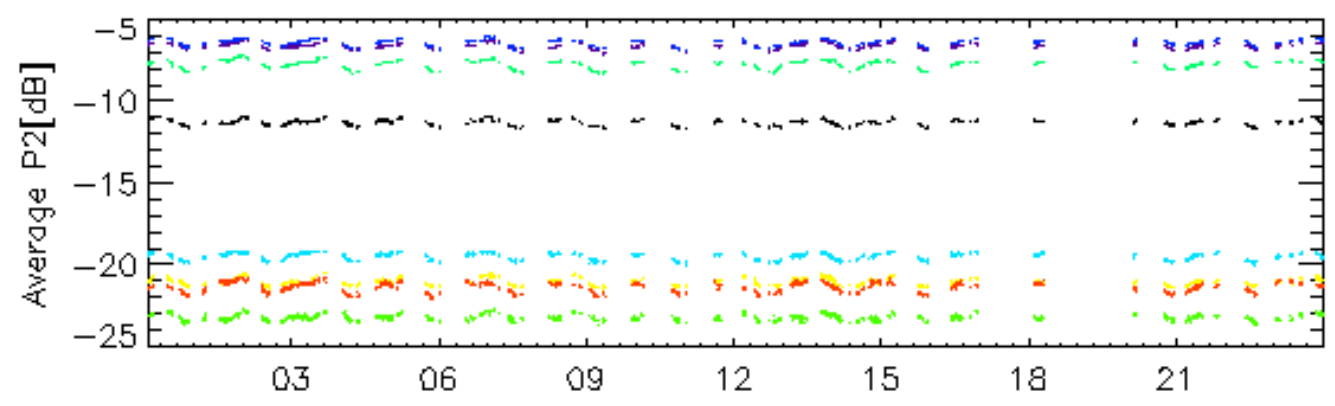
Calibration pulses for GM1 SS3 H/H



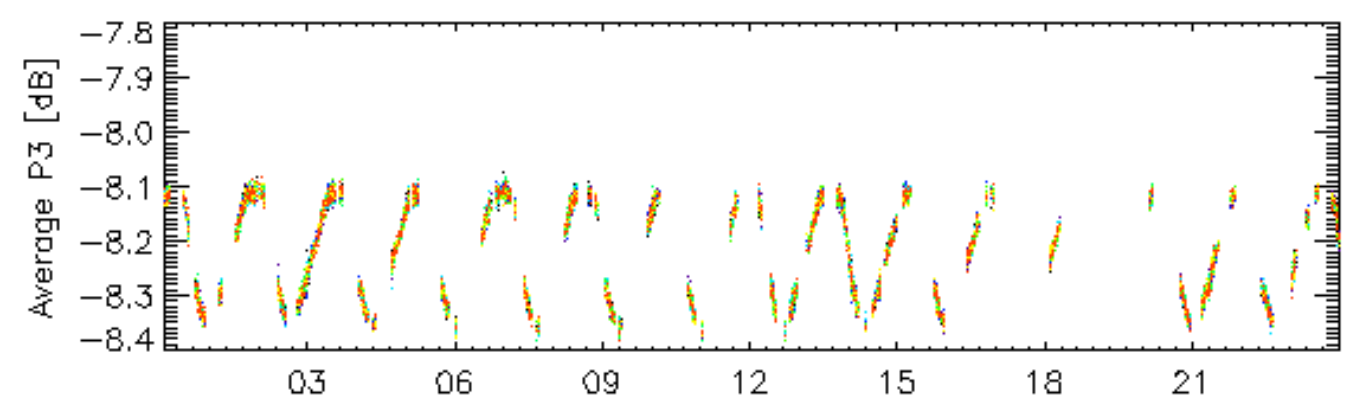
16-Aug



16-Aug



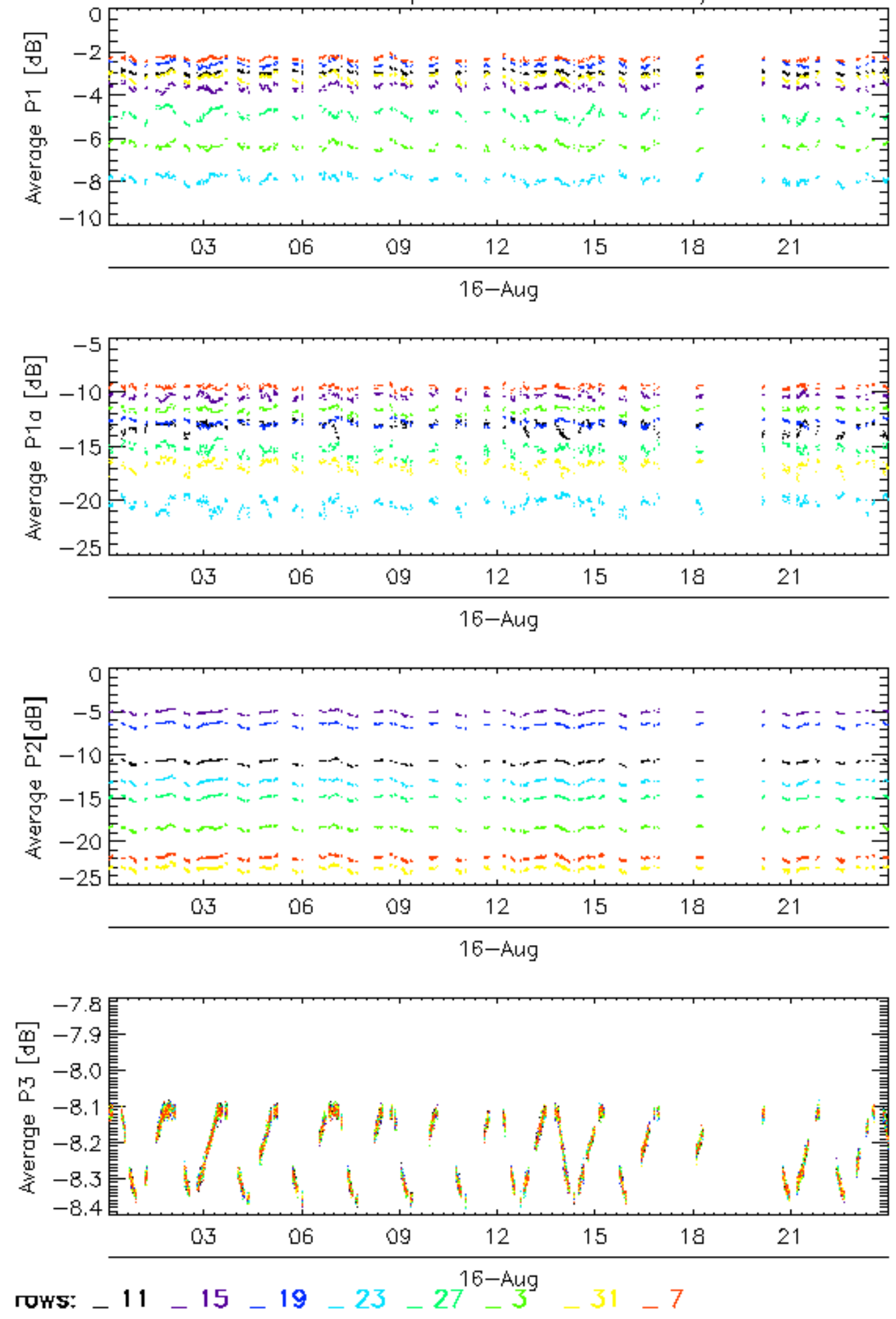
16-Aug



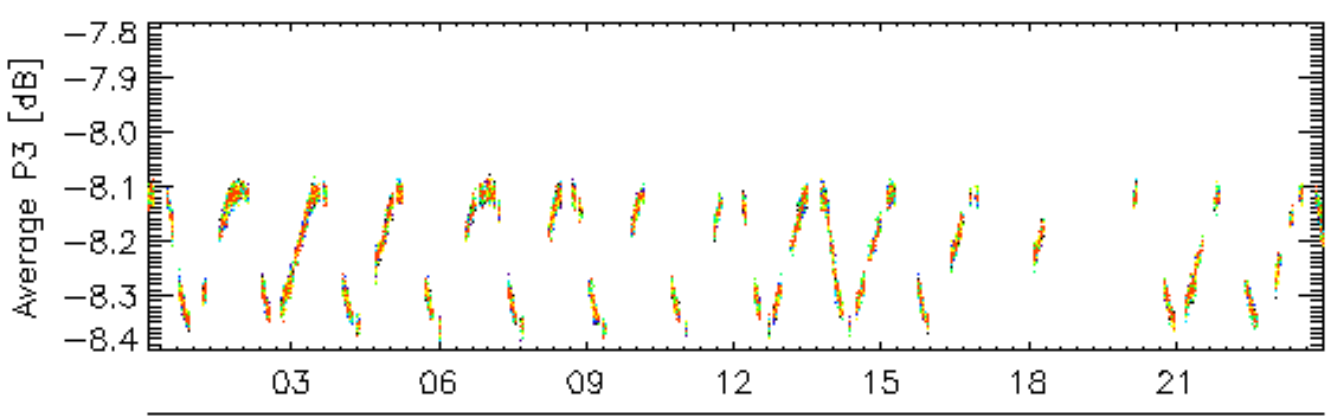
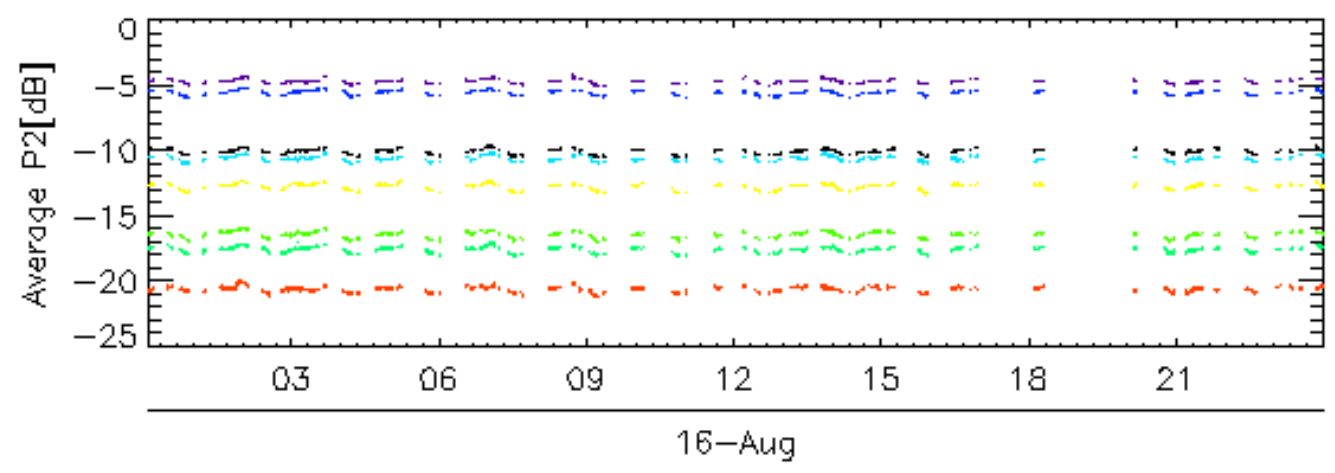
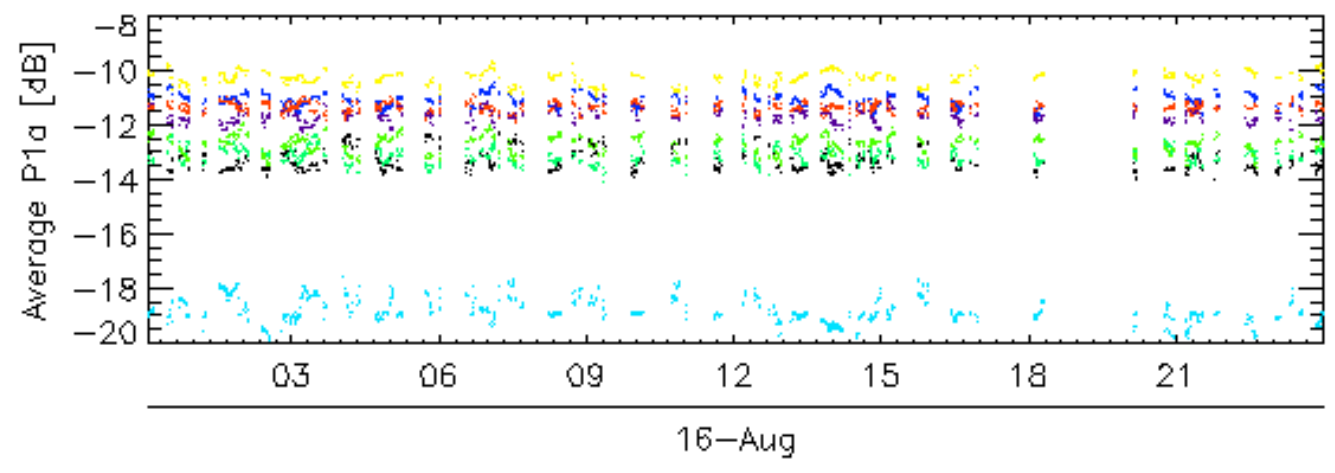
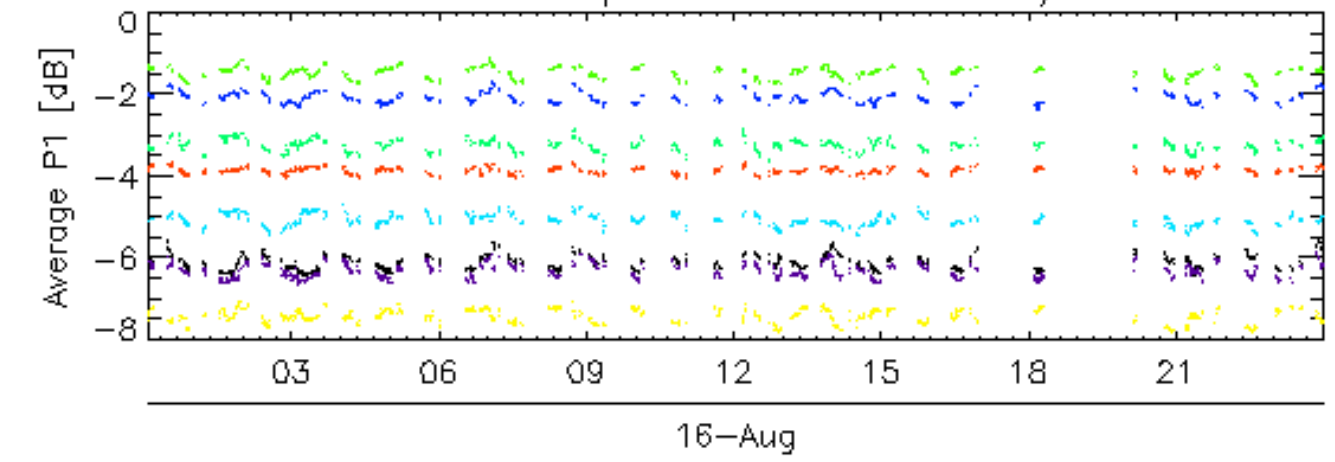
16-Aug

rows: — 10 — 14 — 18 — 2 — 22 — 26 — 30 — 6

Calibration pulses for GM1 SS3 H/H

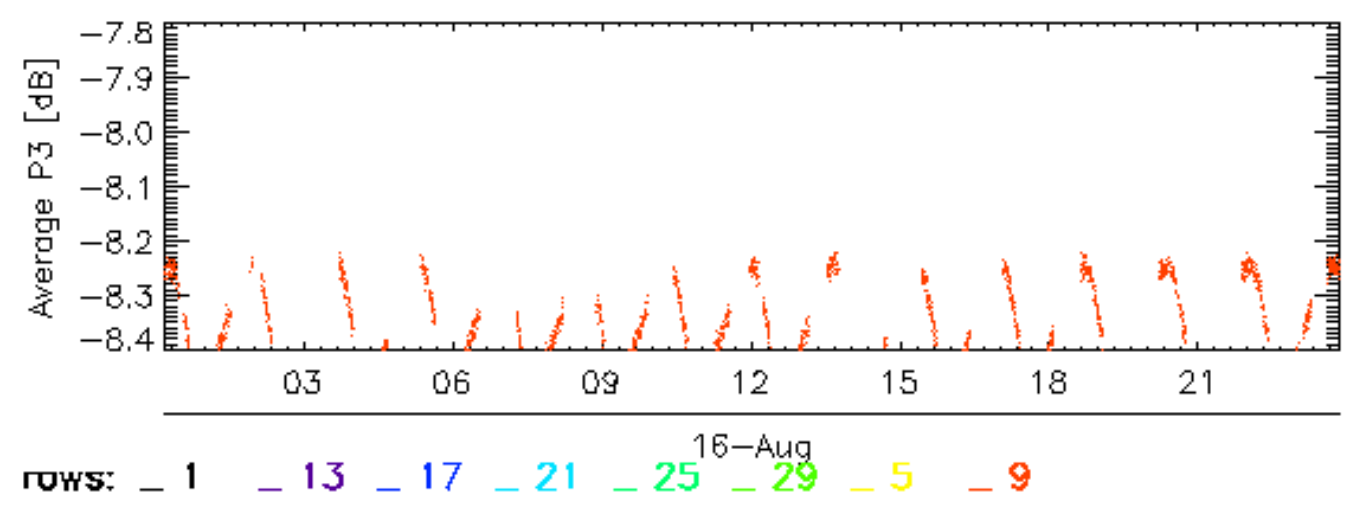
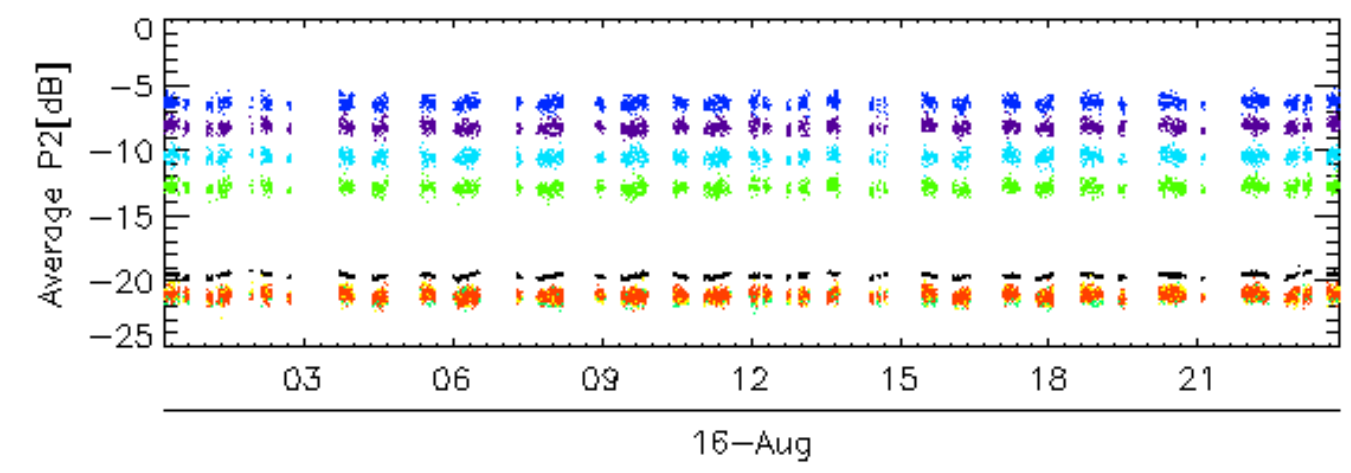
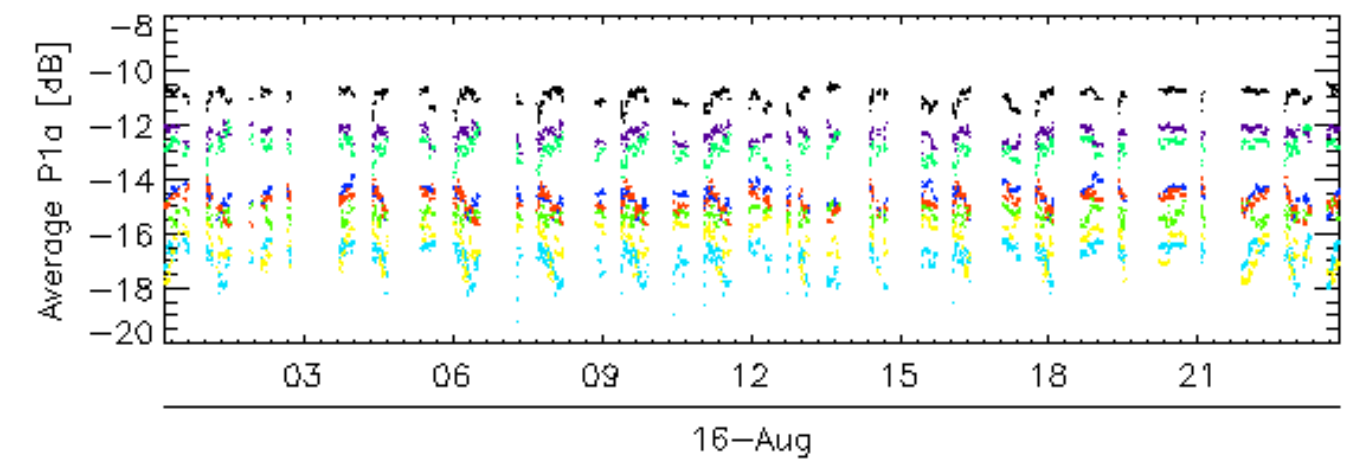
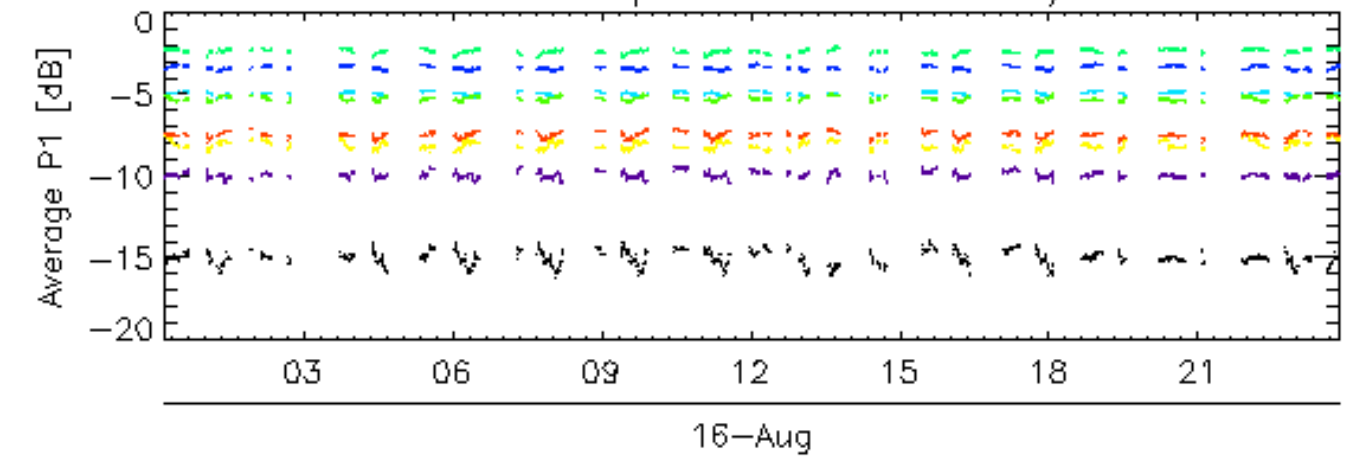


Calibration pulses for GM1 SS3 H/H

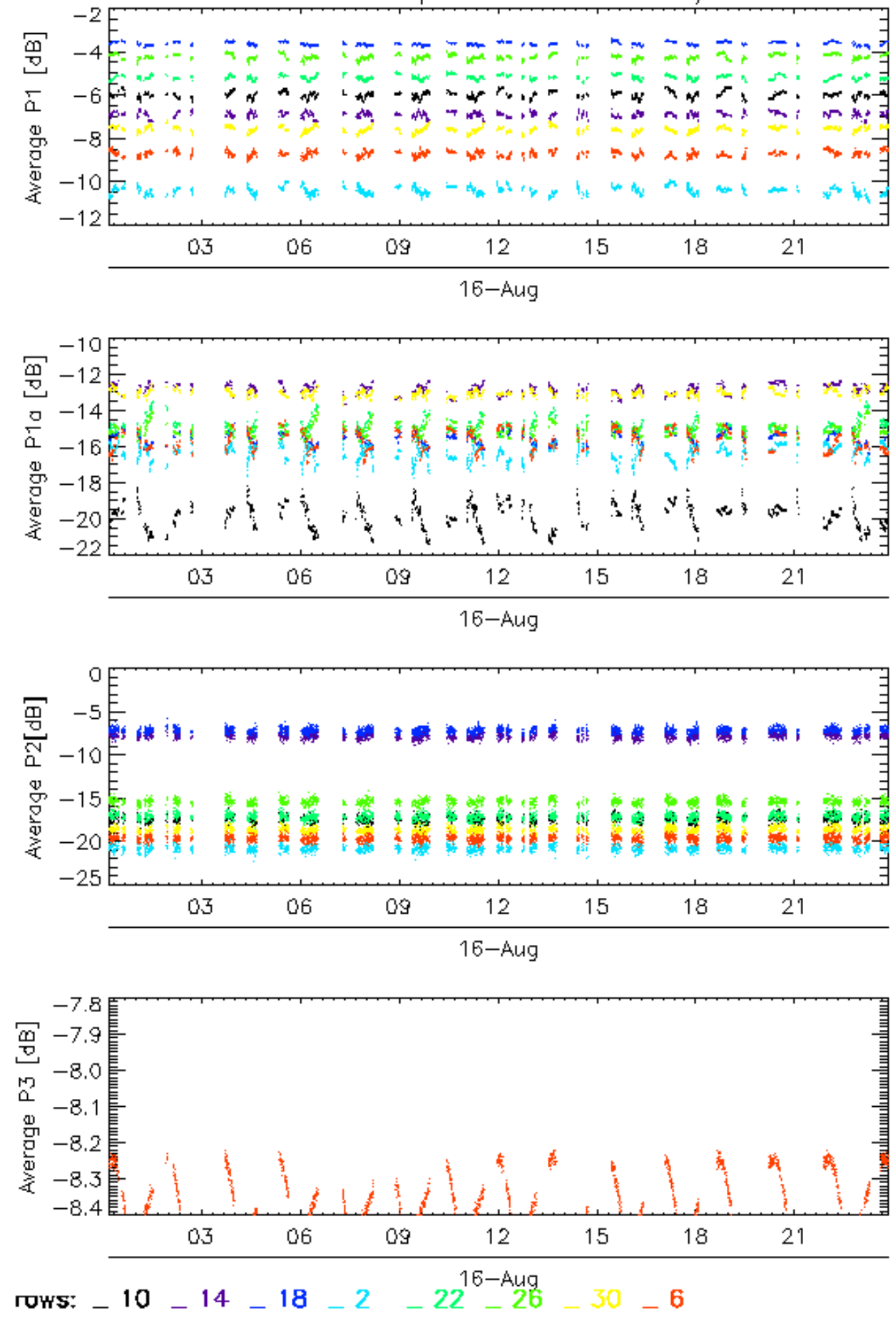


rows: 12 16 20 24 28 32 4 8

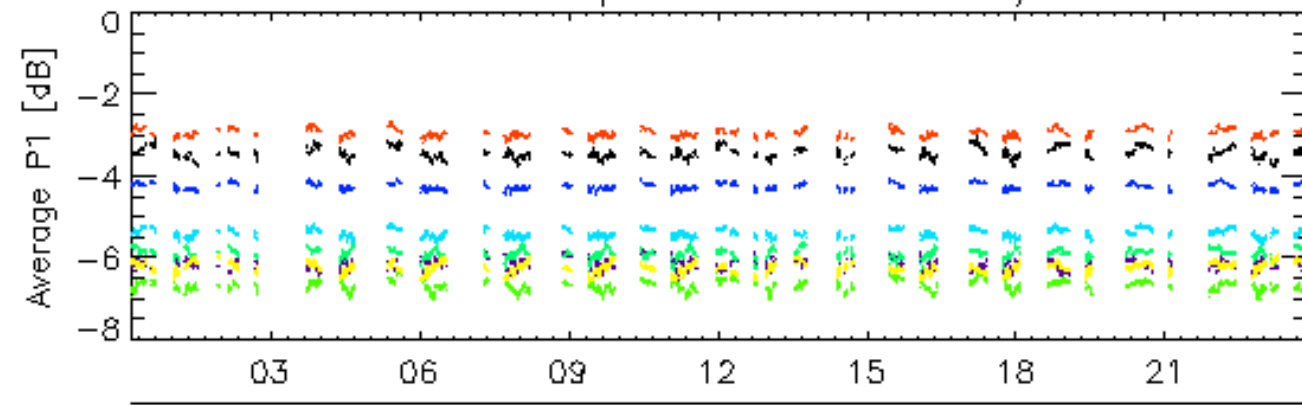
Calibration pulses for WVS IS2 V/V



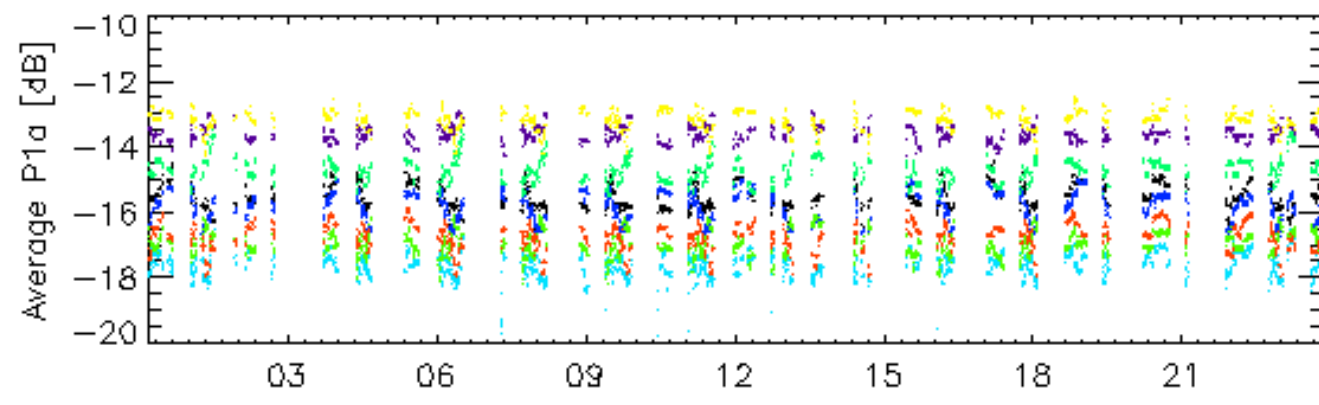
Calibration pulses for WVS IS2 V/V



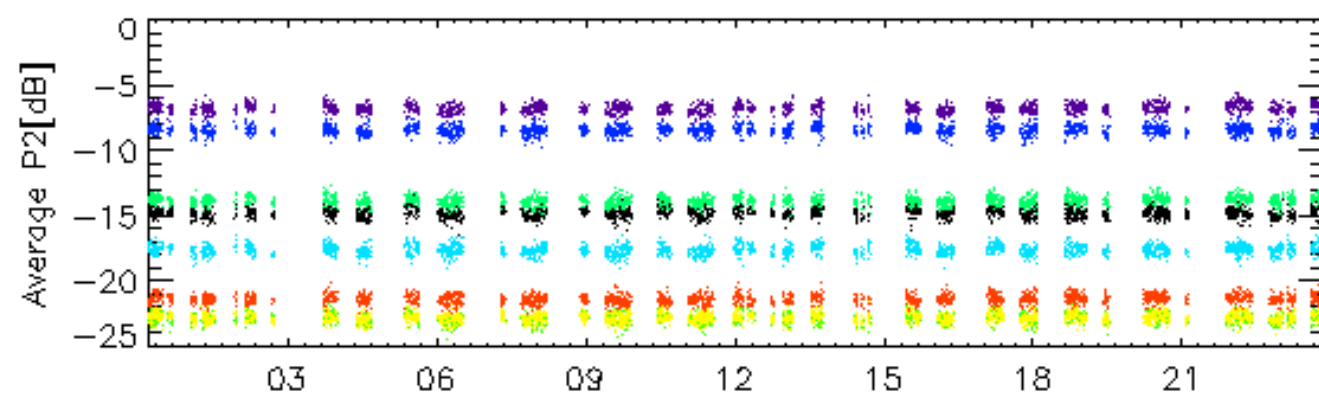
Calibration pulses for WVS IS2 V/V



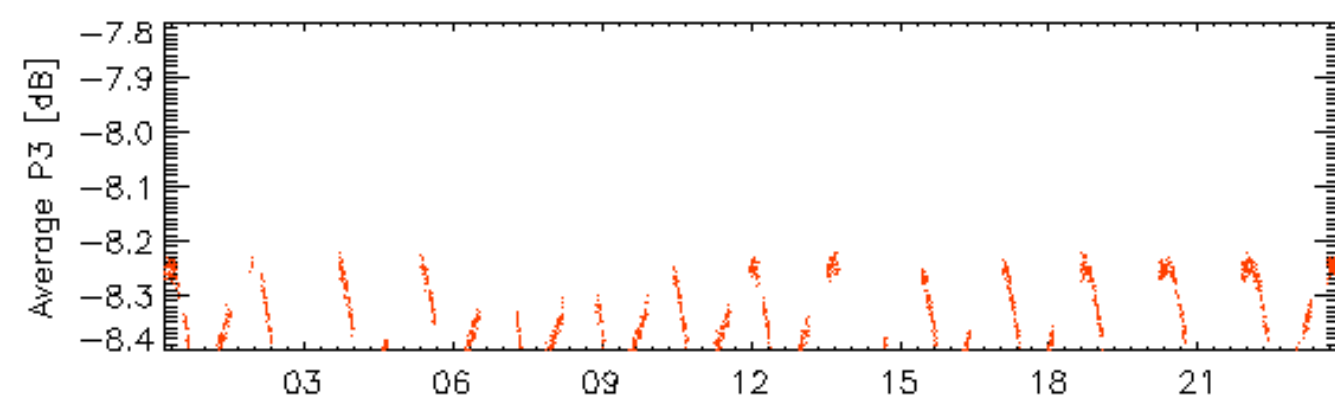
16-Aug



16-Aug



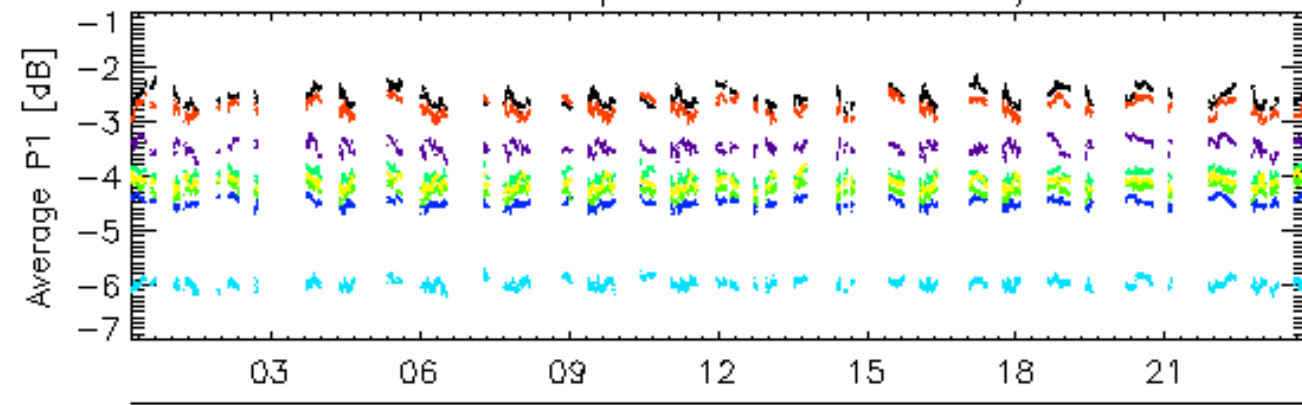
16-Aug



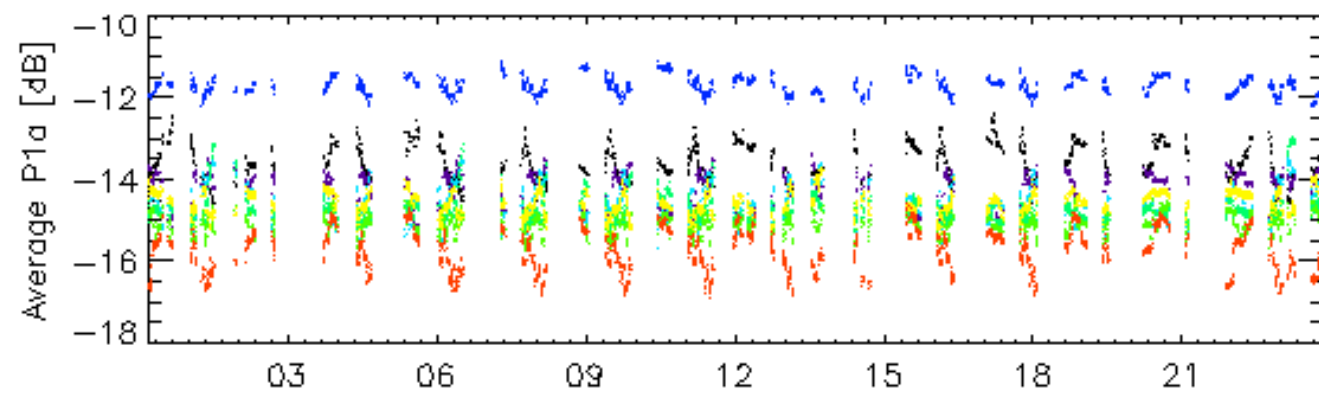
16-Aug

rows: _ 11 _ 15 _ 19 _ 23 _ 27 _ 31 _ 7

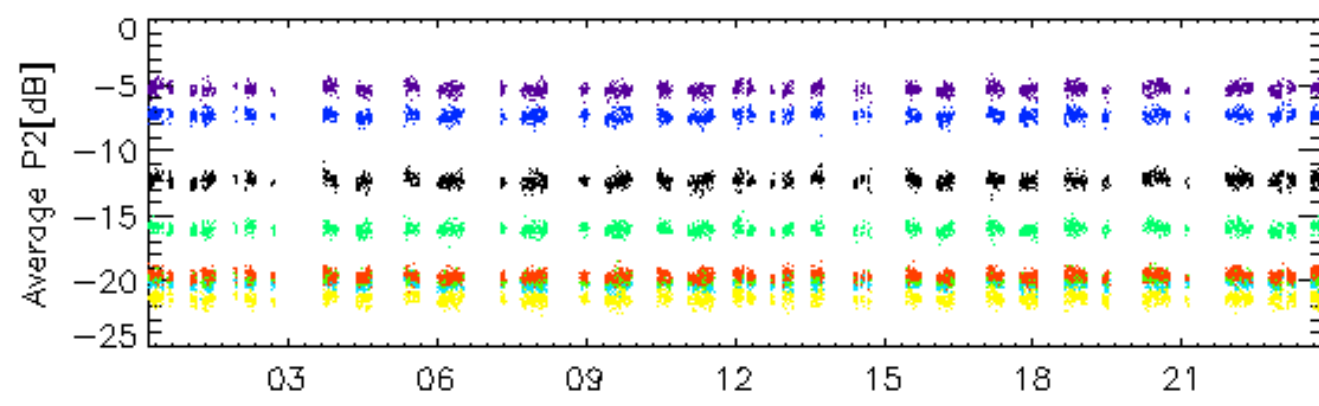
Calibration pulses for WVS IS2 V/V



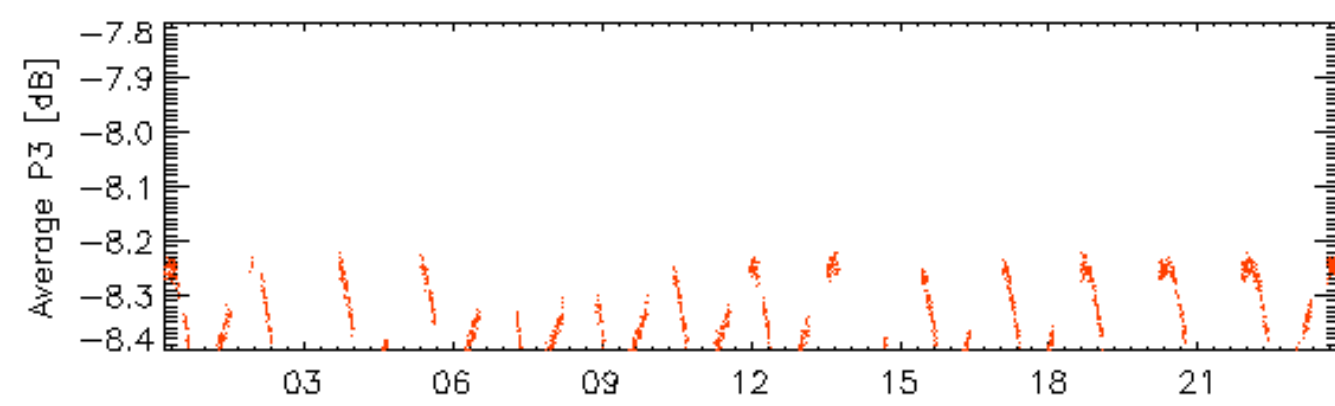
16-Aug



16-Aug

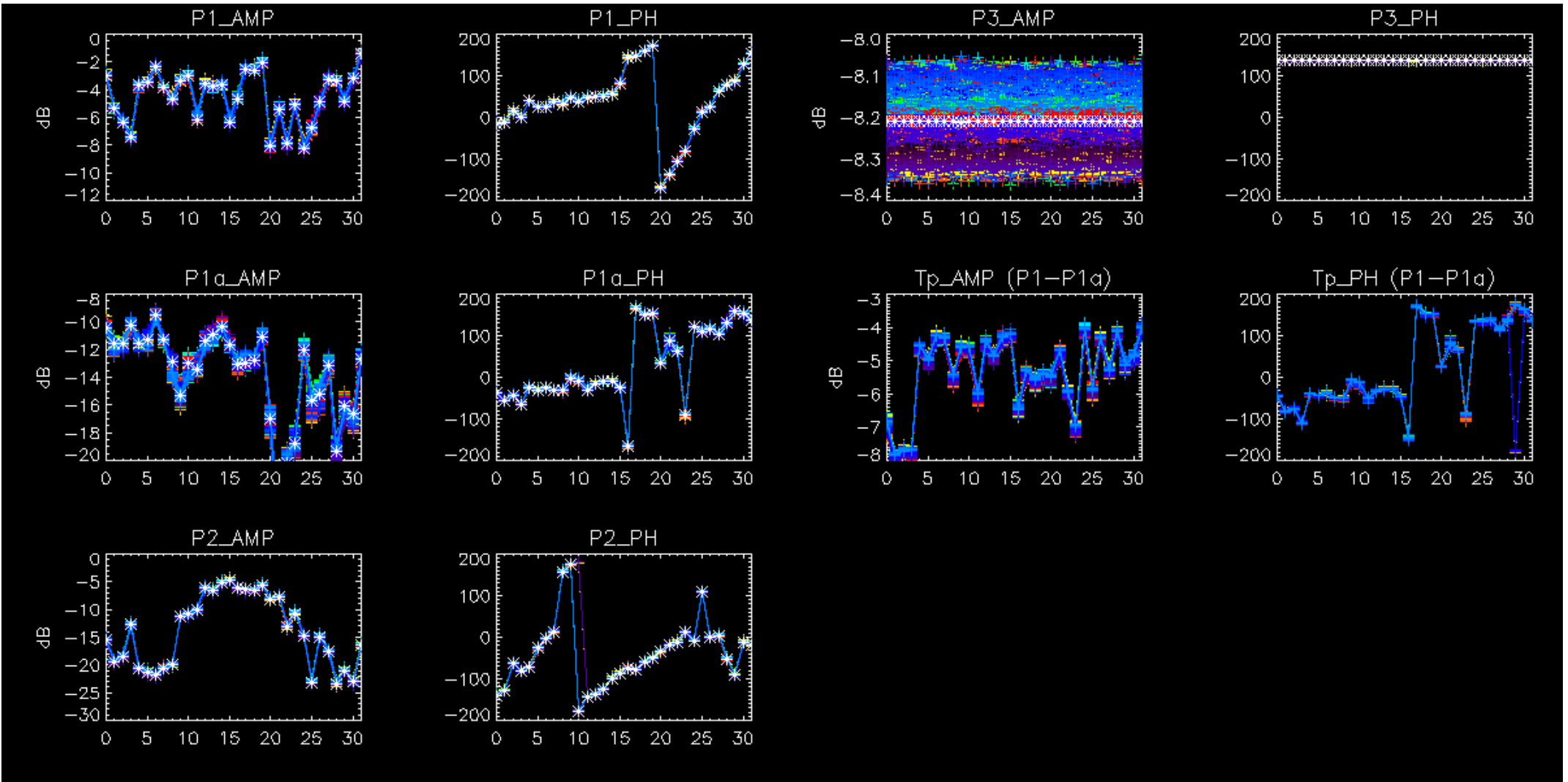


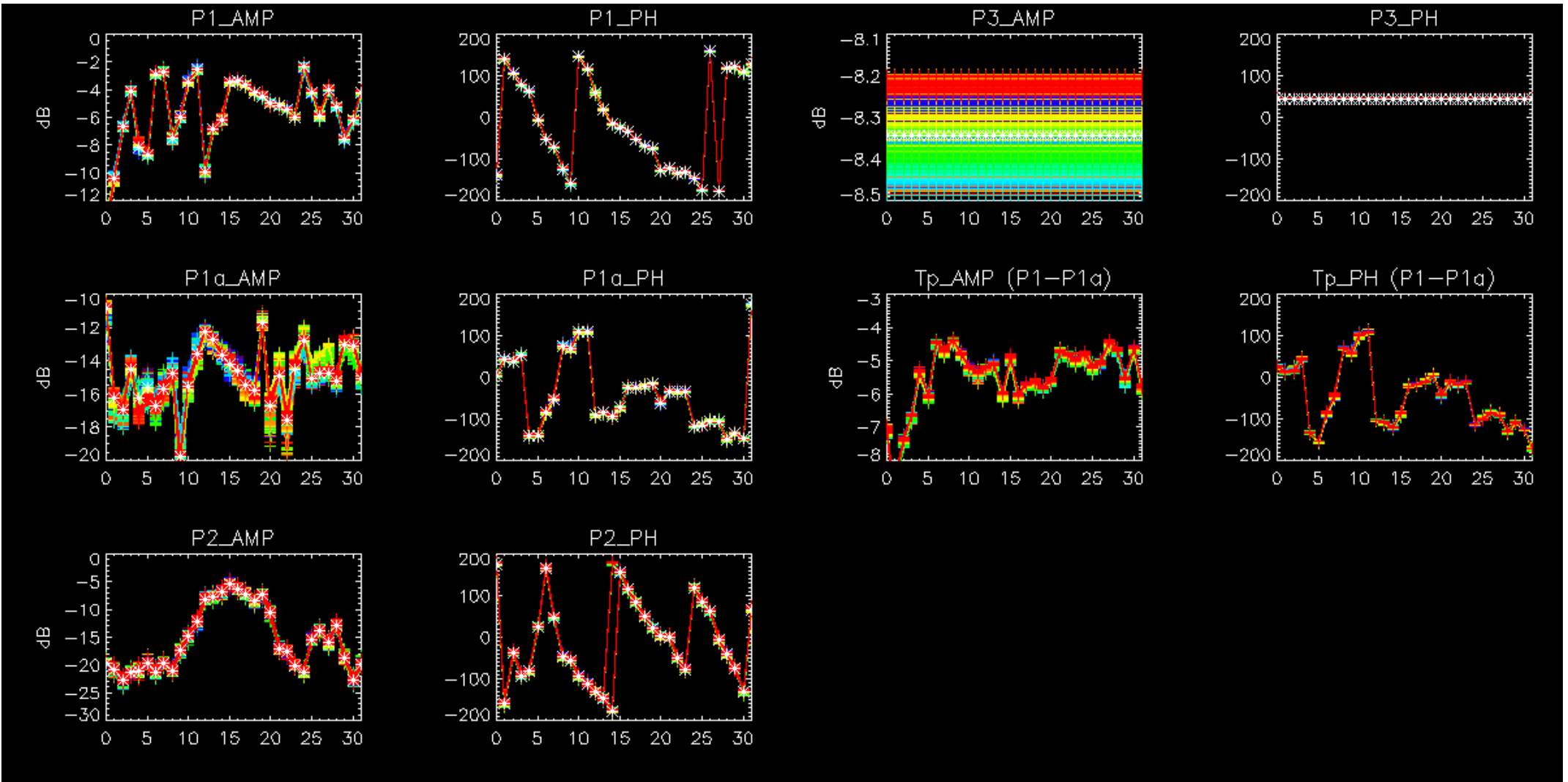
16-Aug

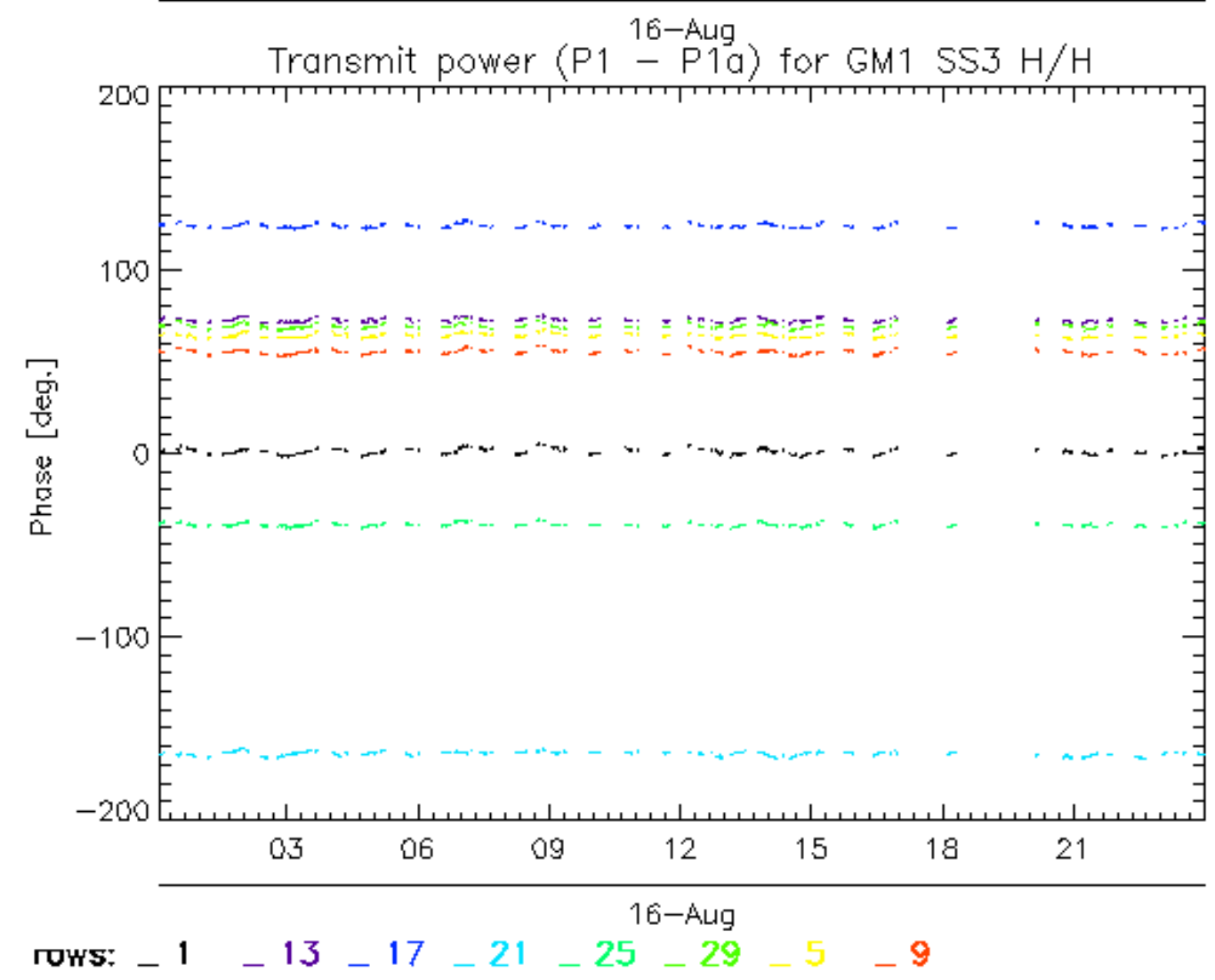
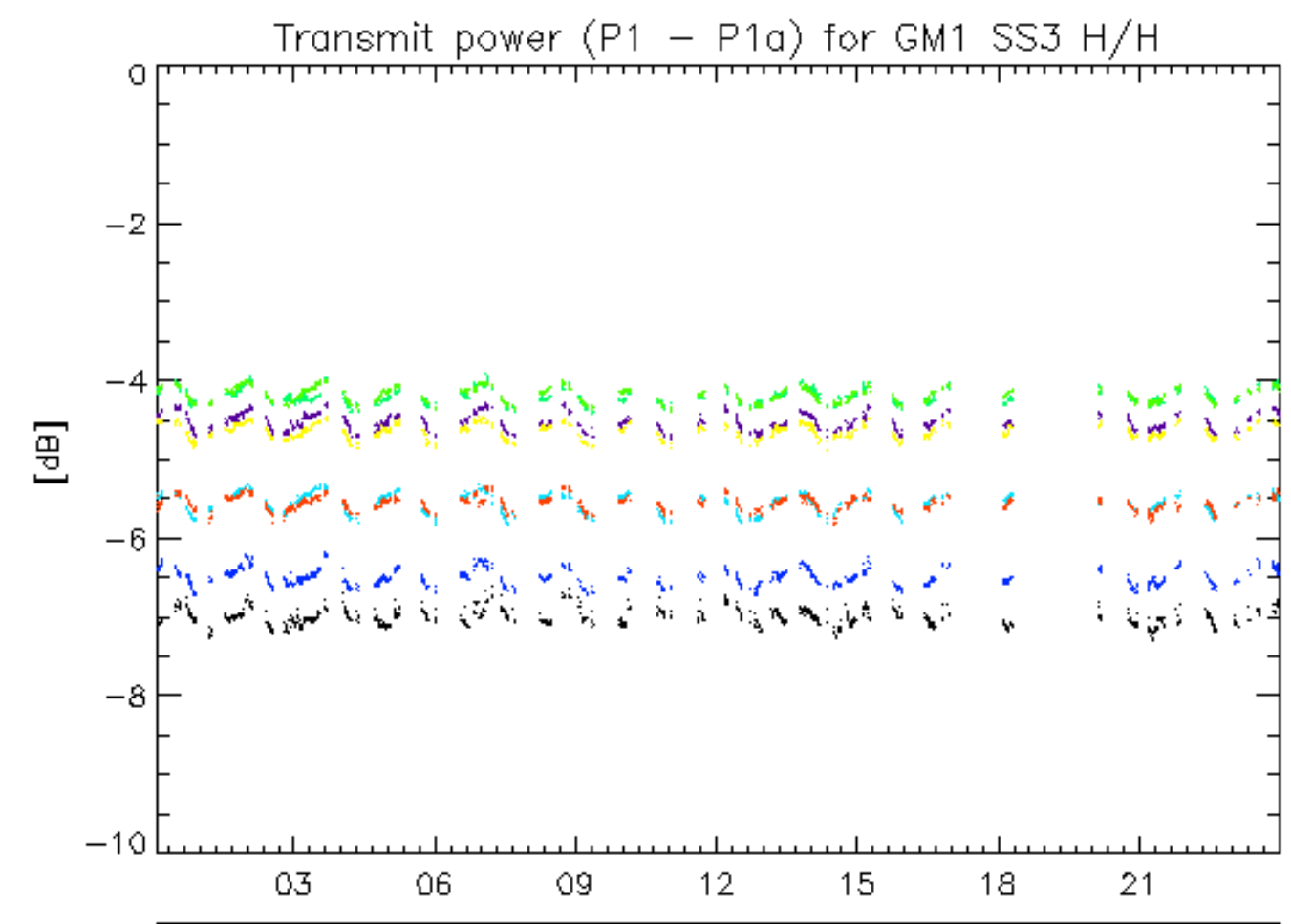


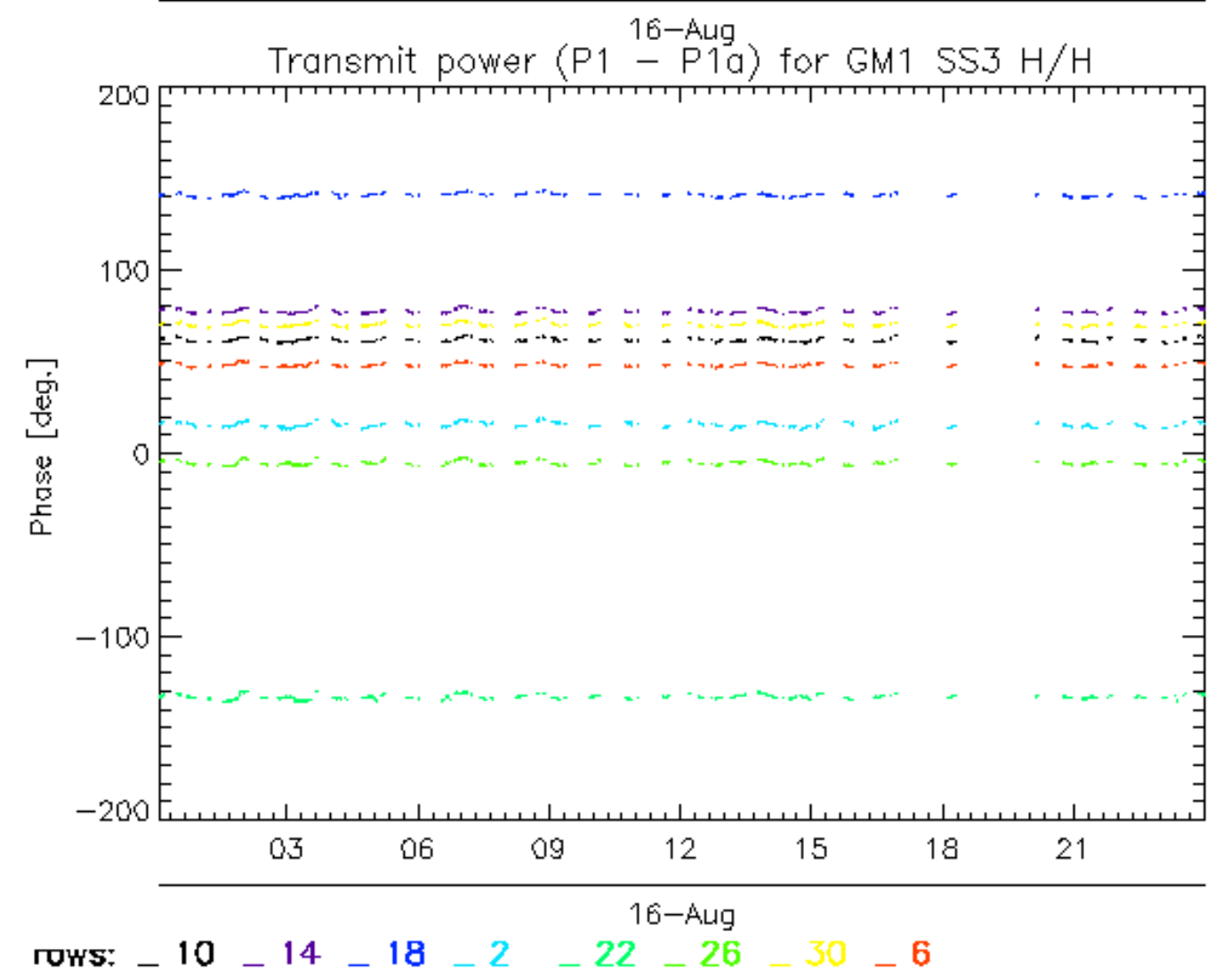
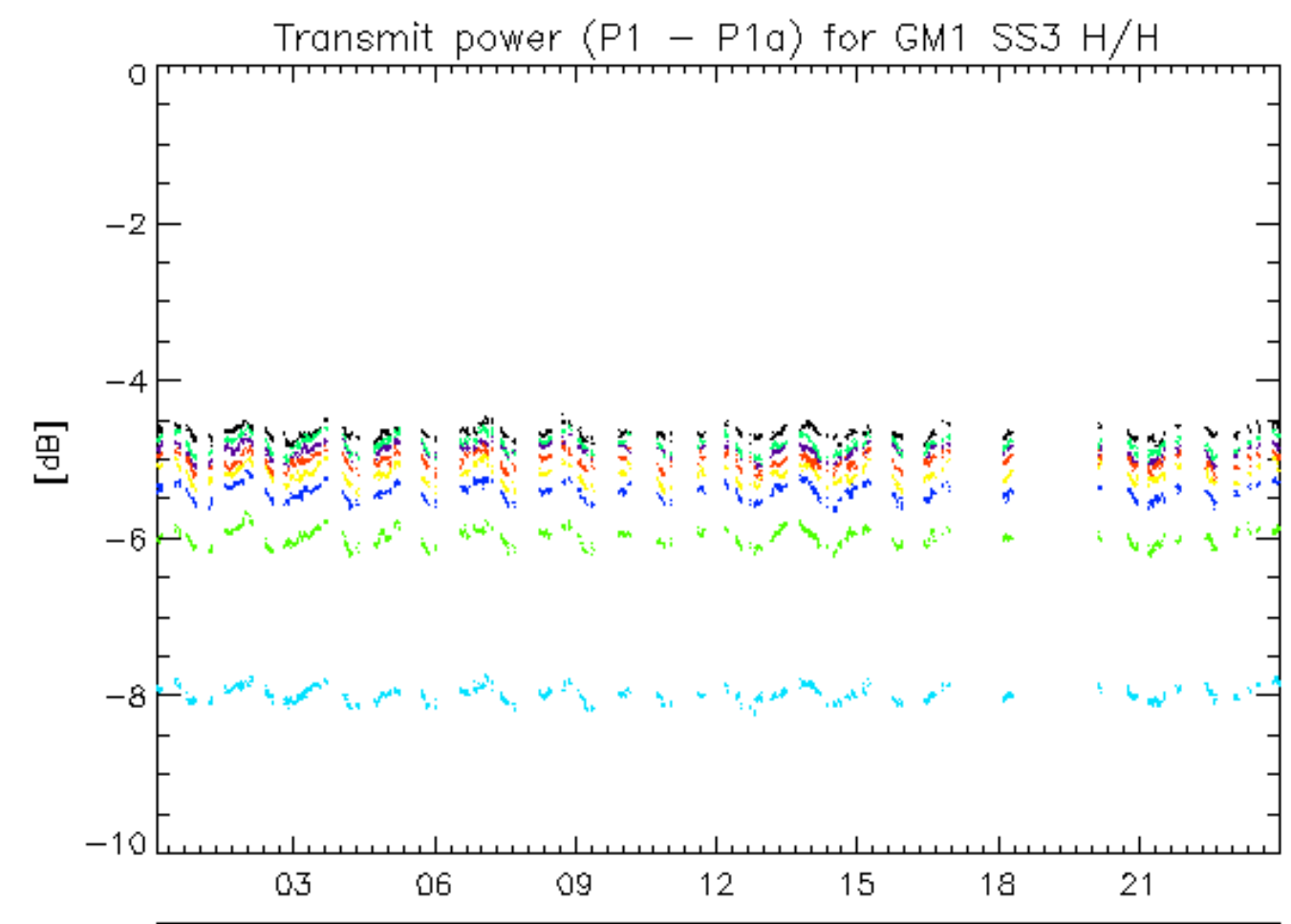
16-Aug

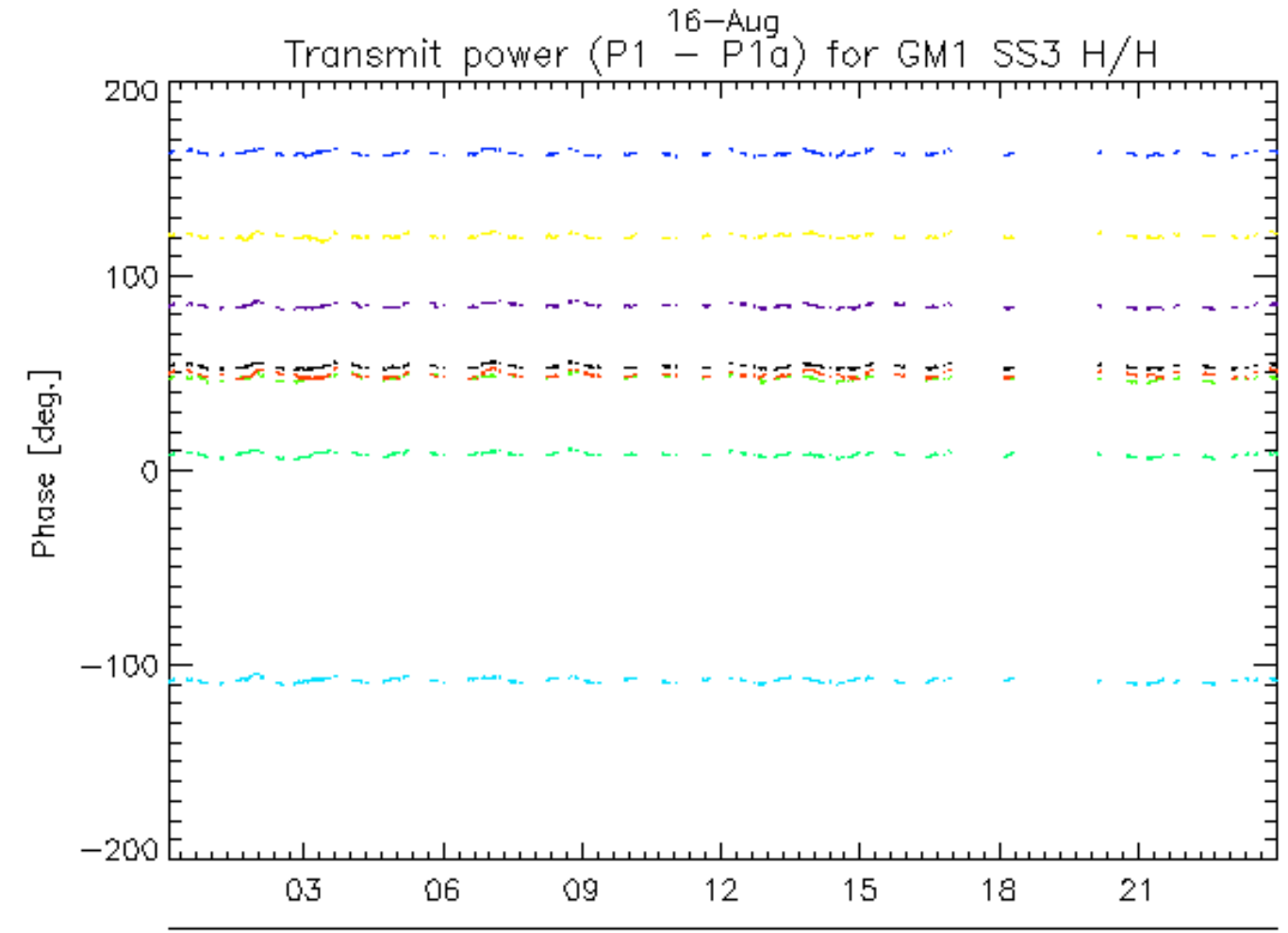
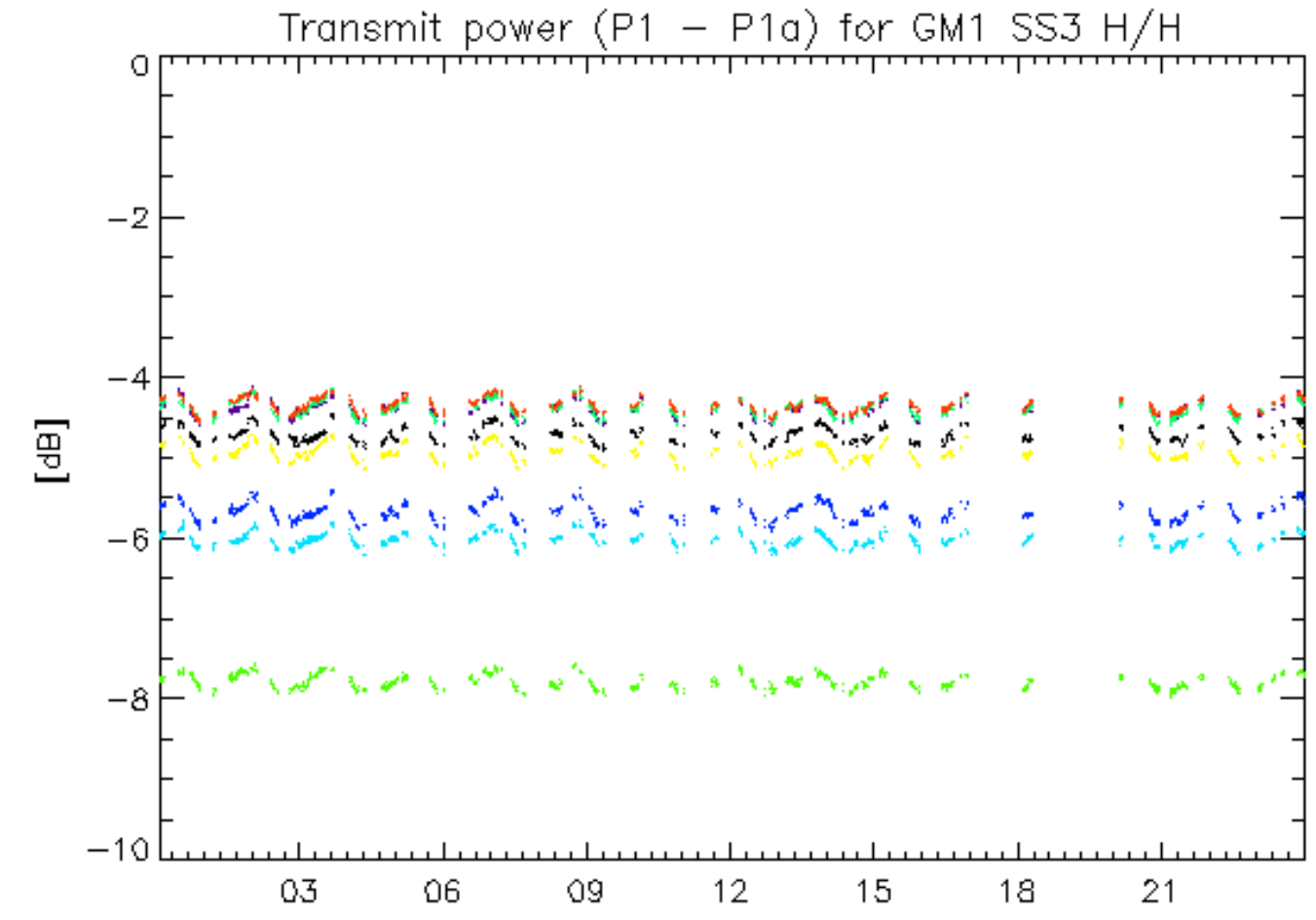
rows: _ 12 _ 16 _ 20 _ 24 _ 28 _ 32 _ 4 _ 8



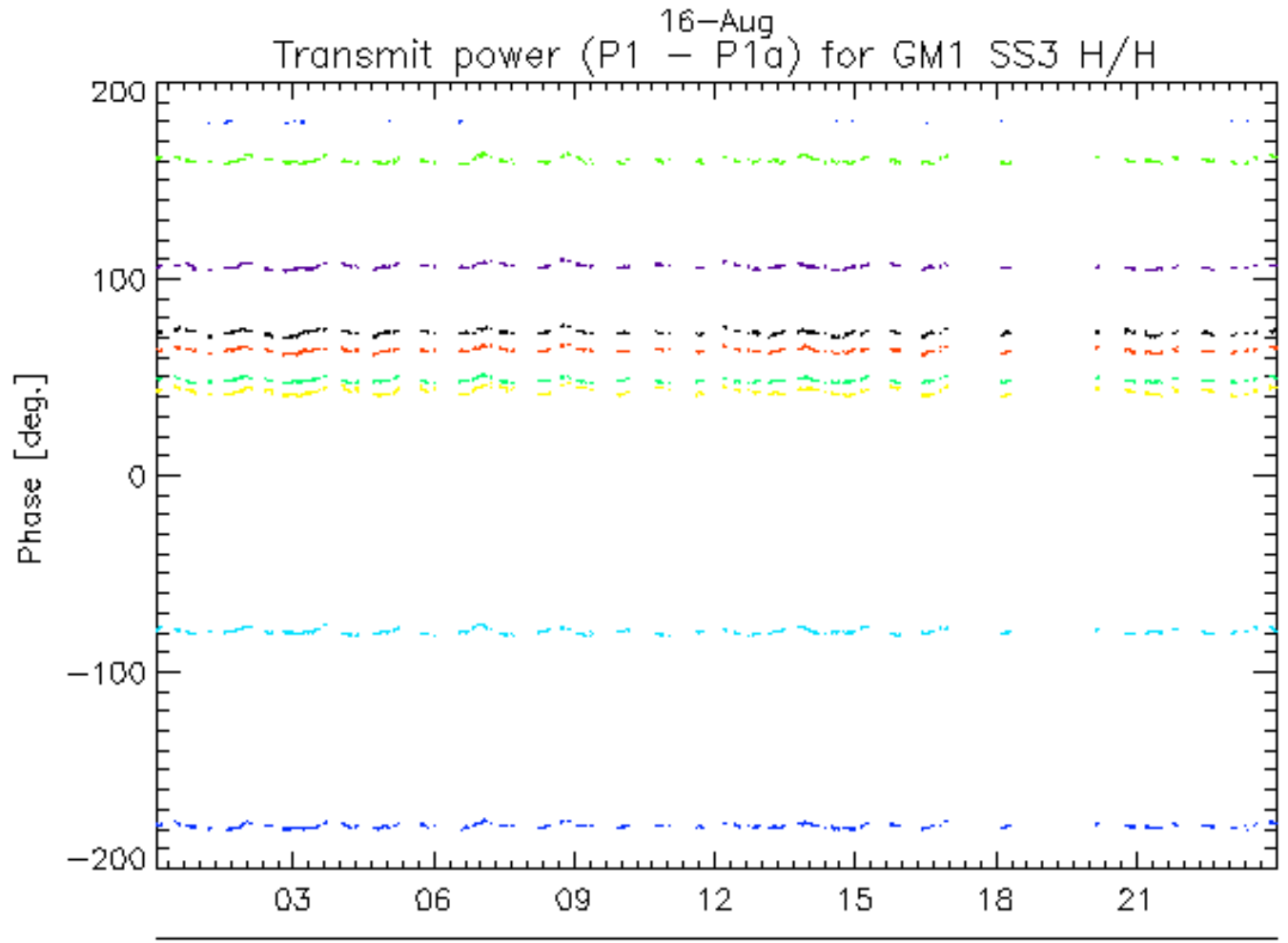
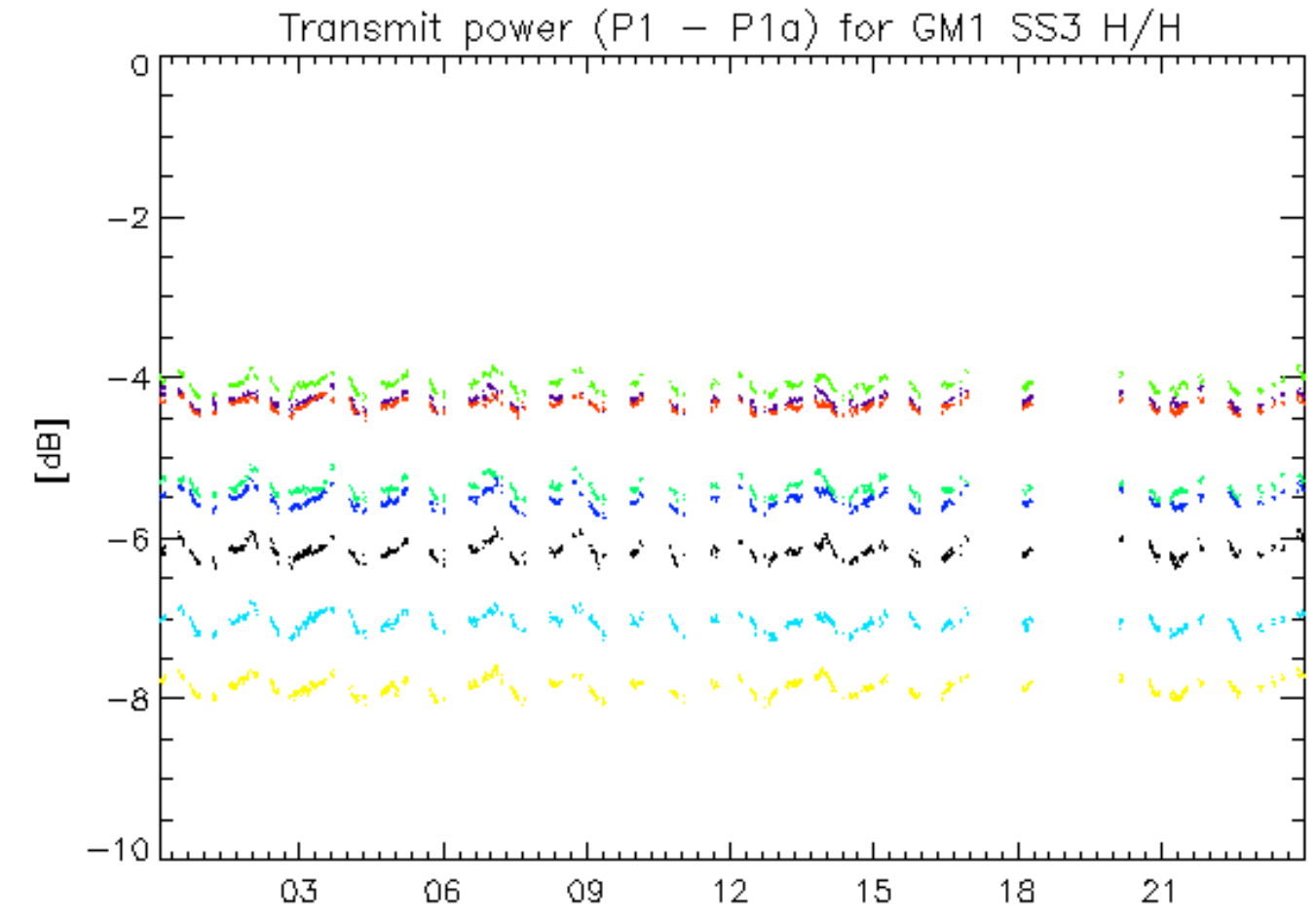




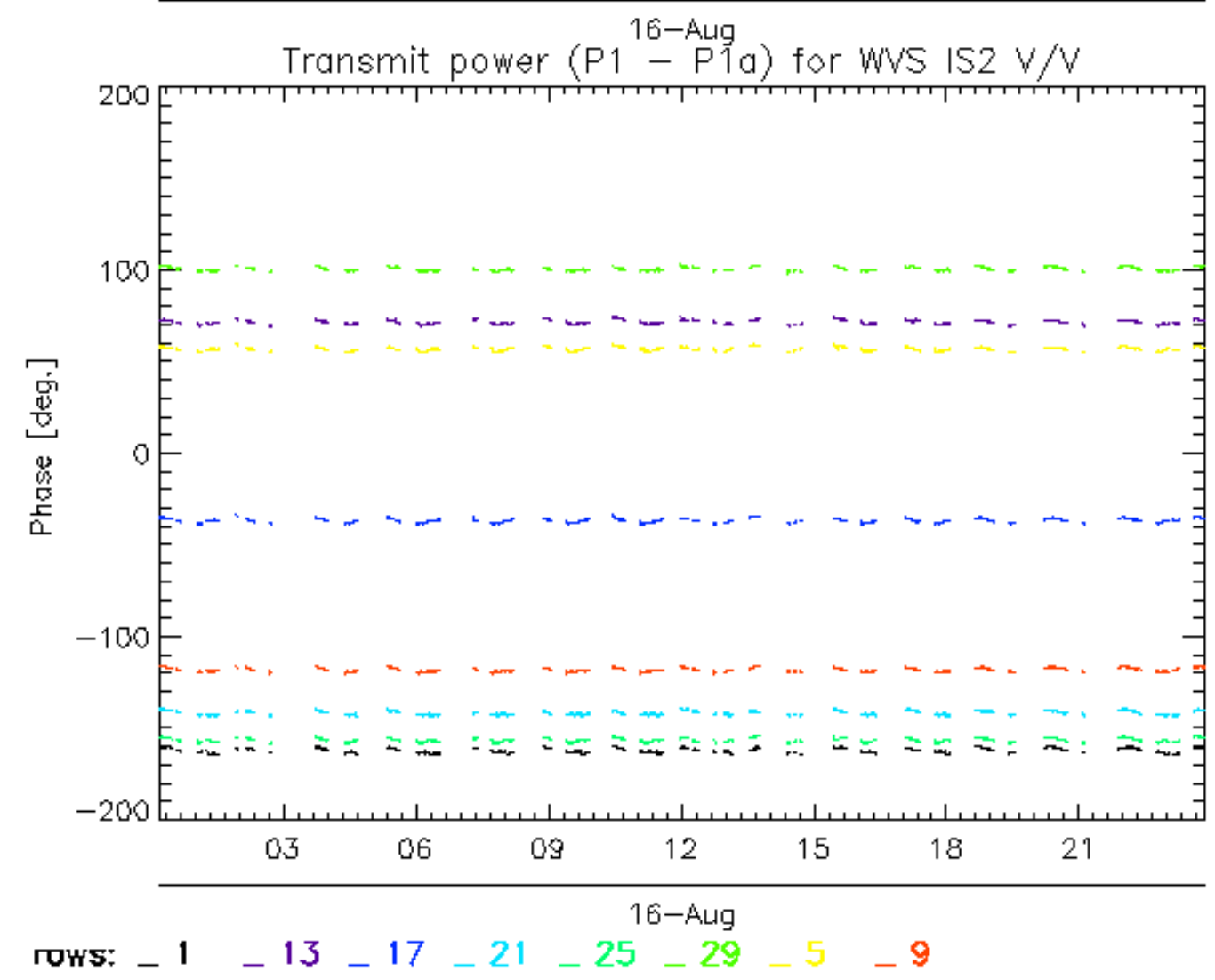
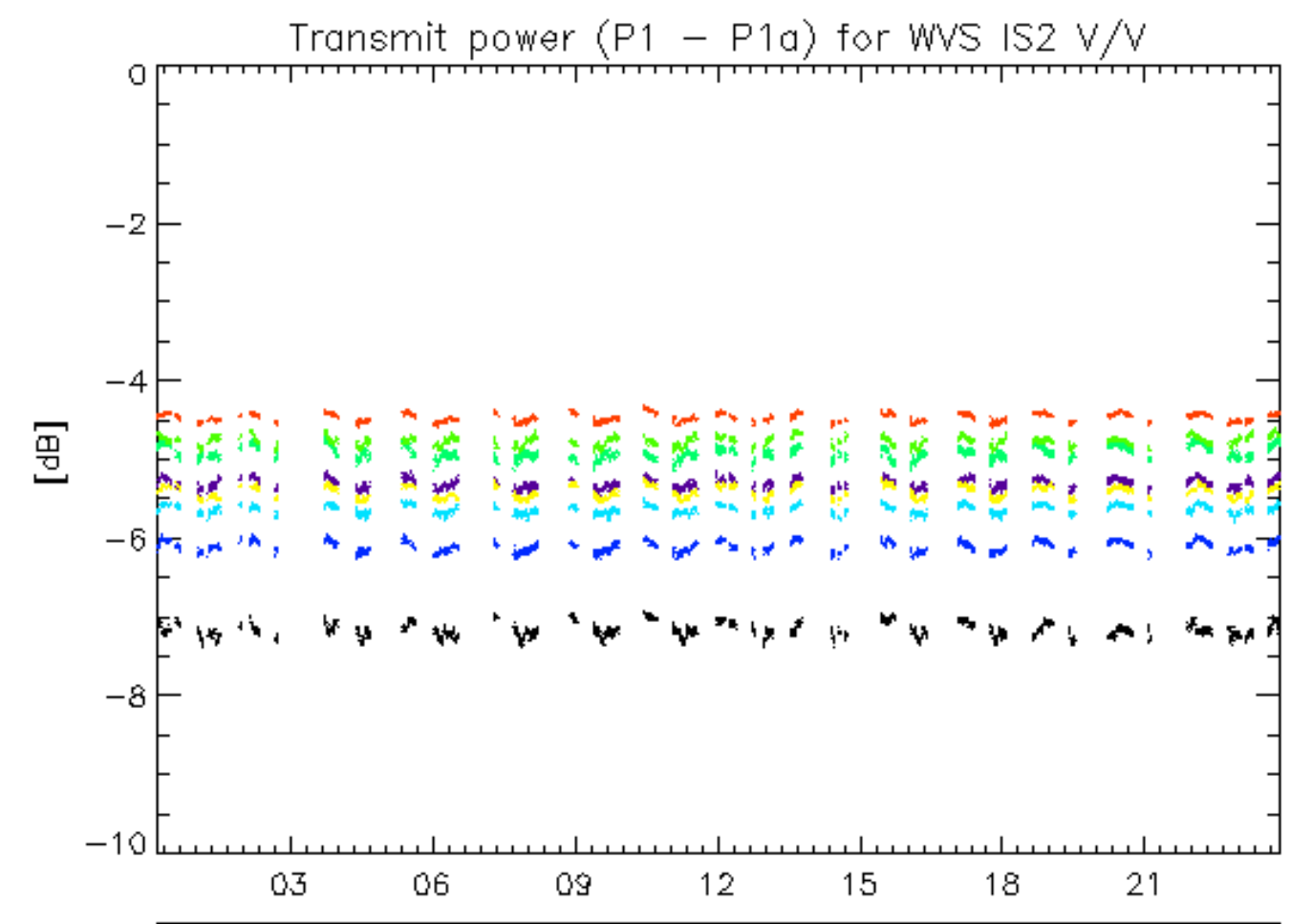


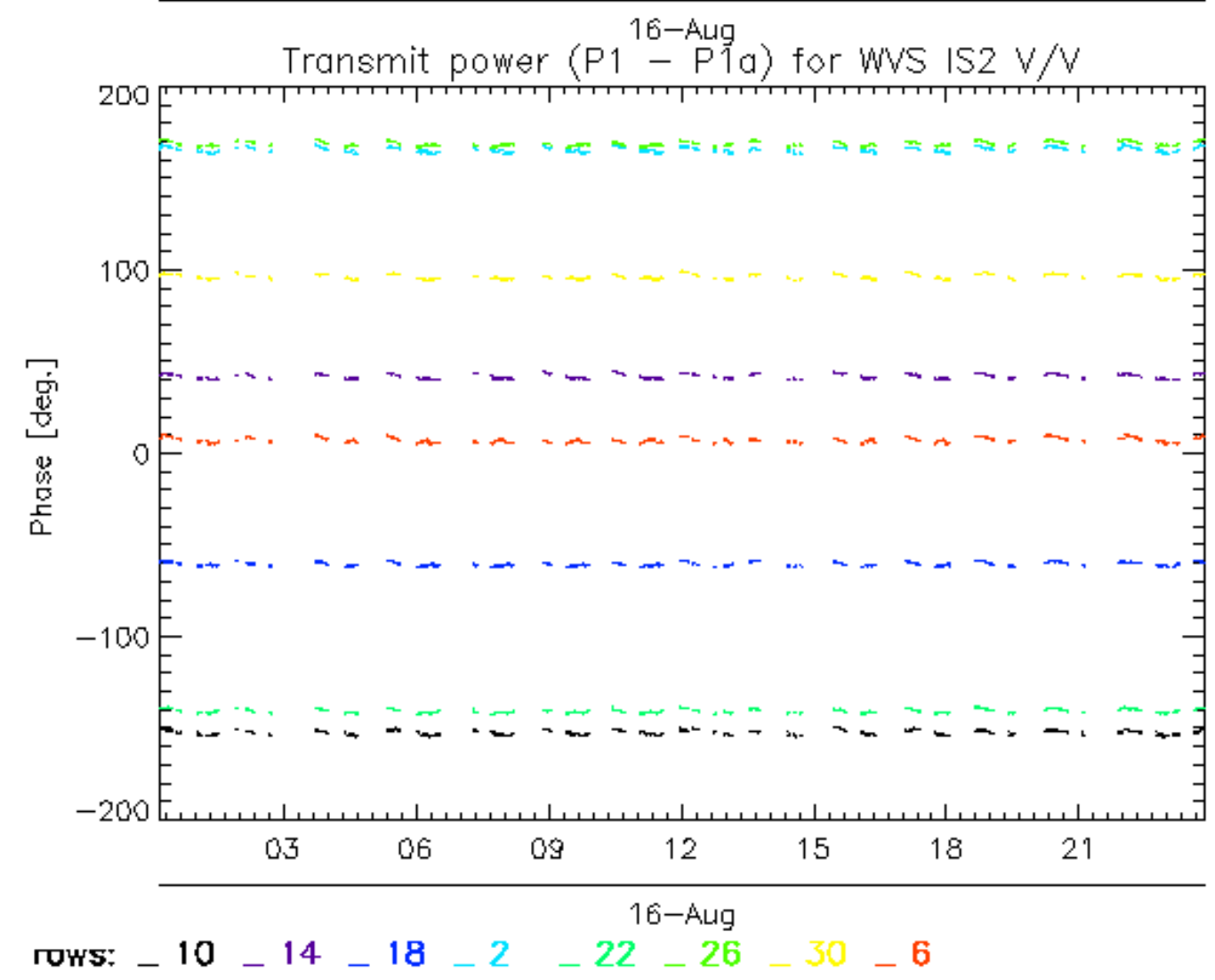
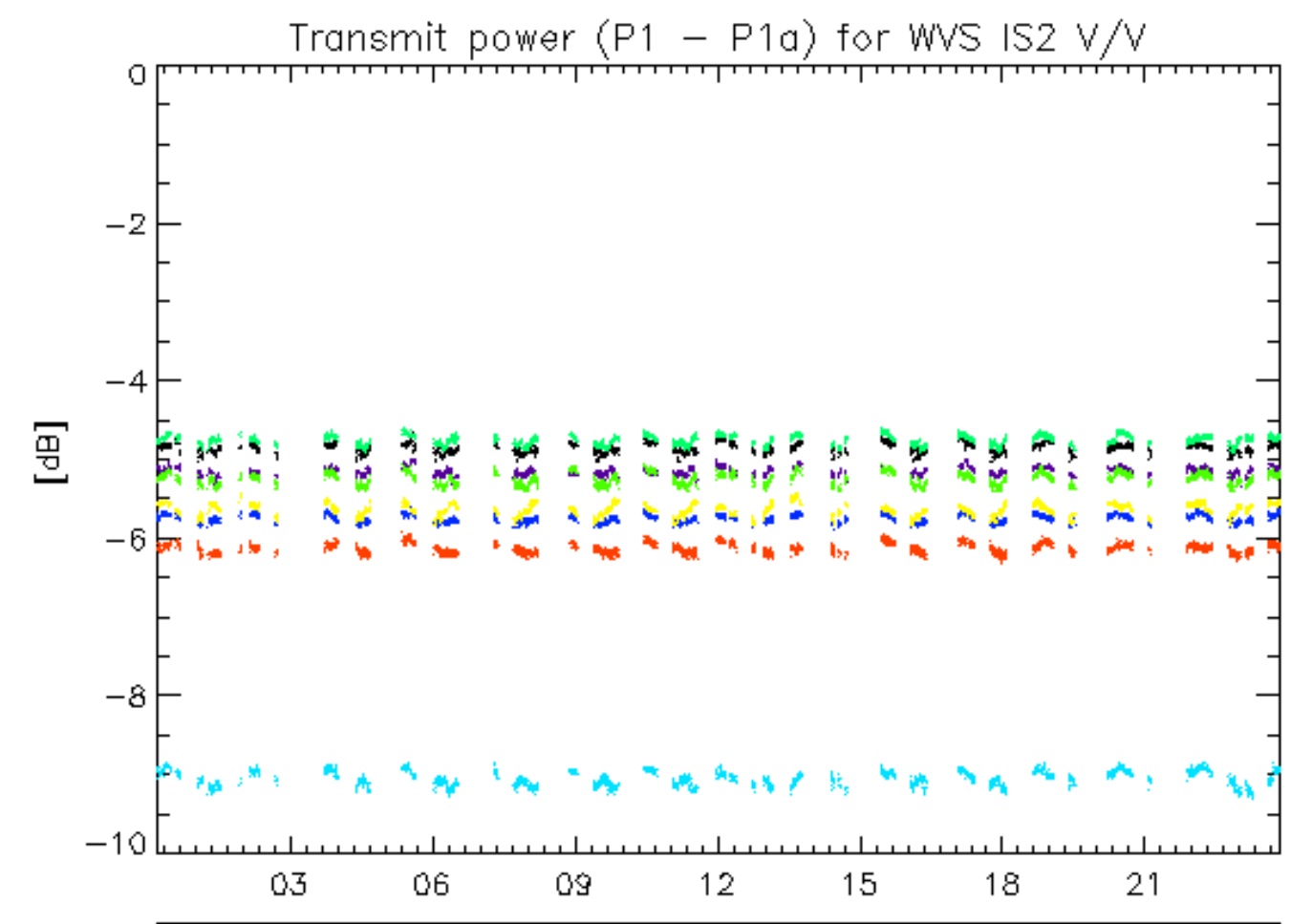


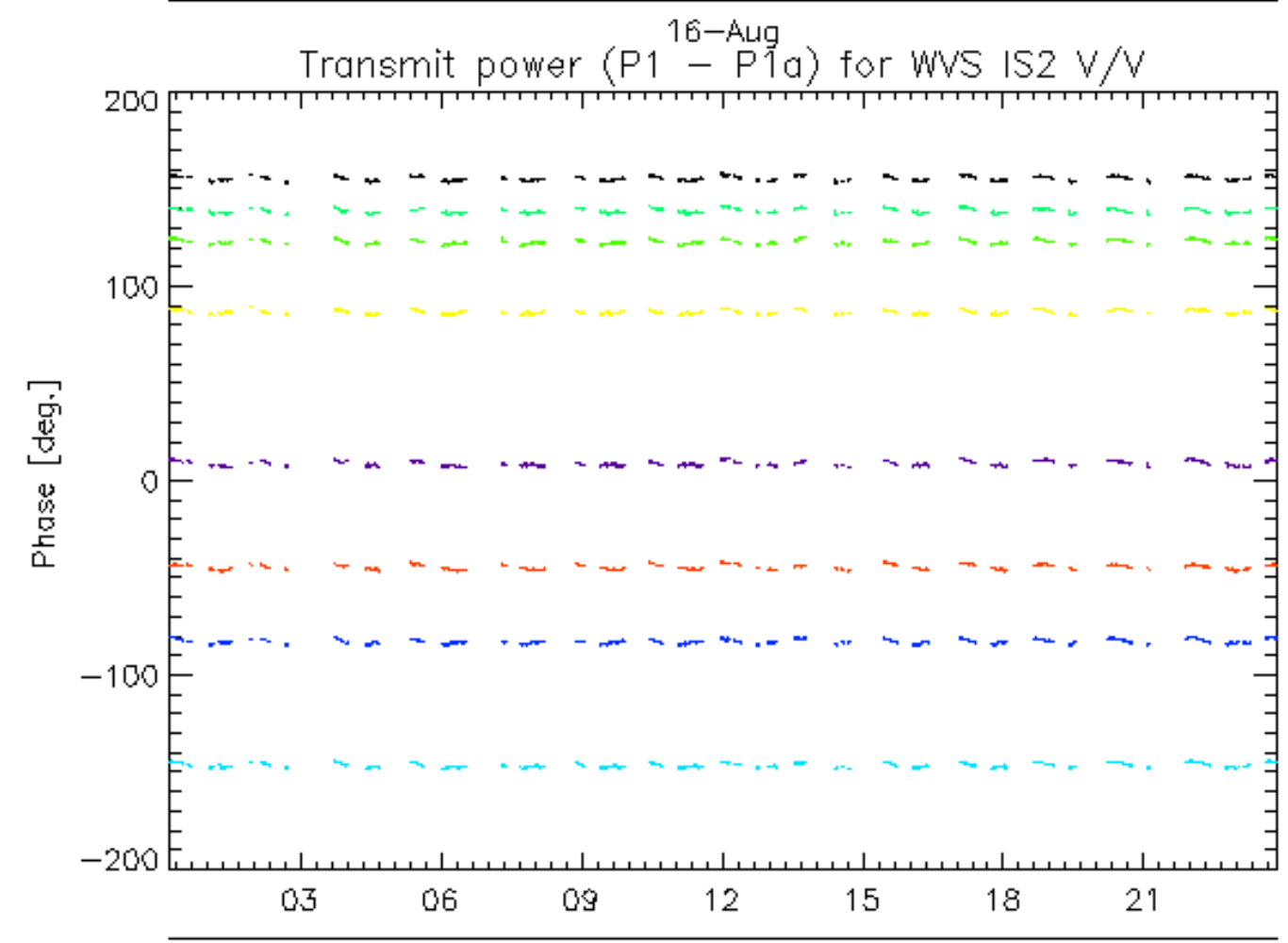
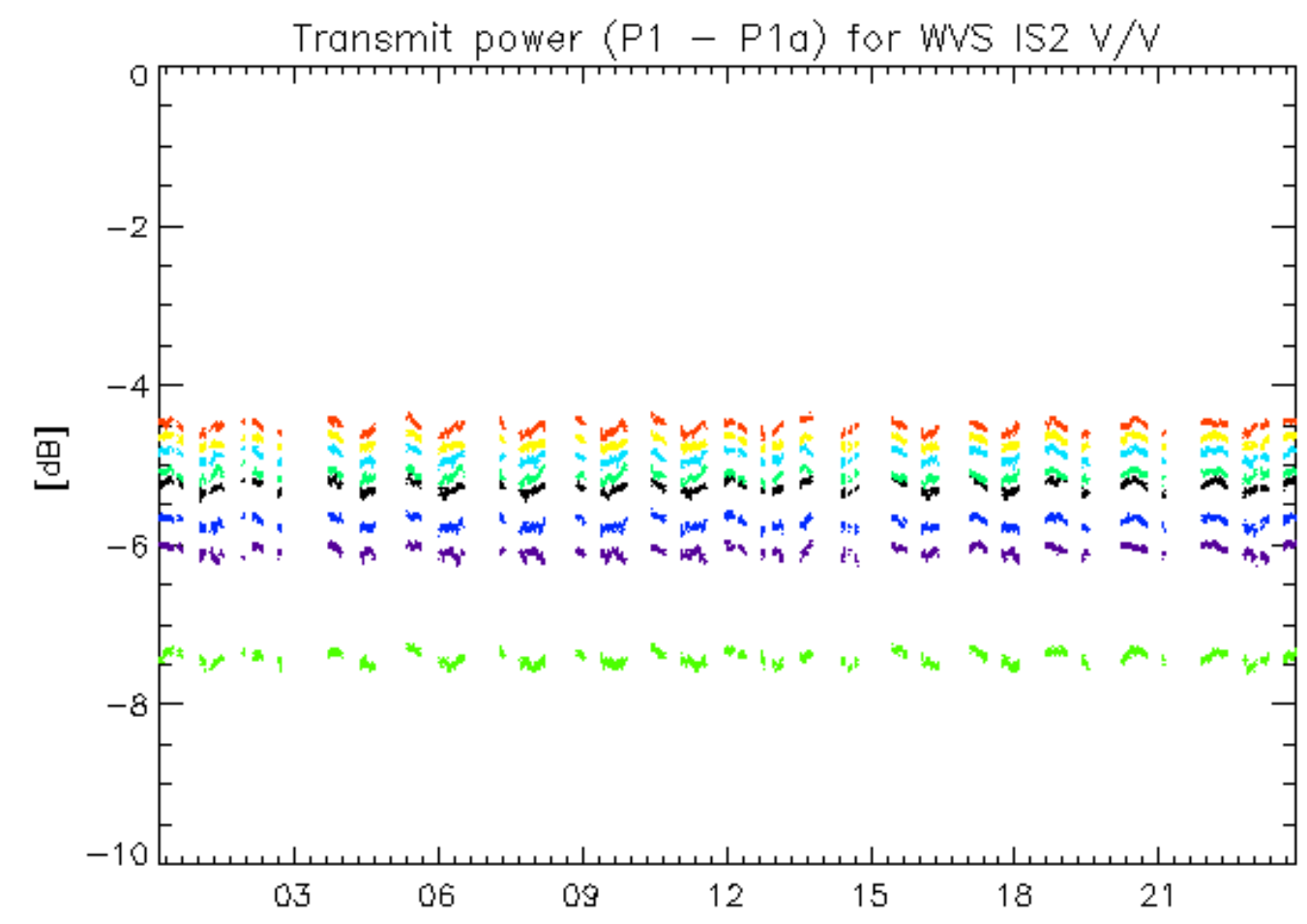
16-Aug
rows: _ 11 _ 15 _ 19 _ 23 _ 27 _ 31 _ 7



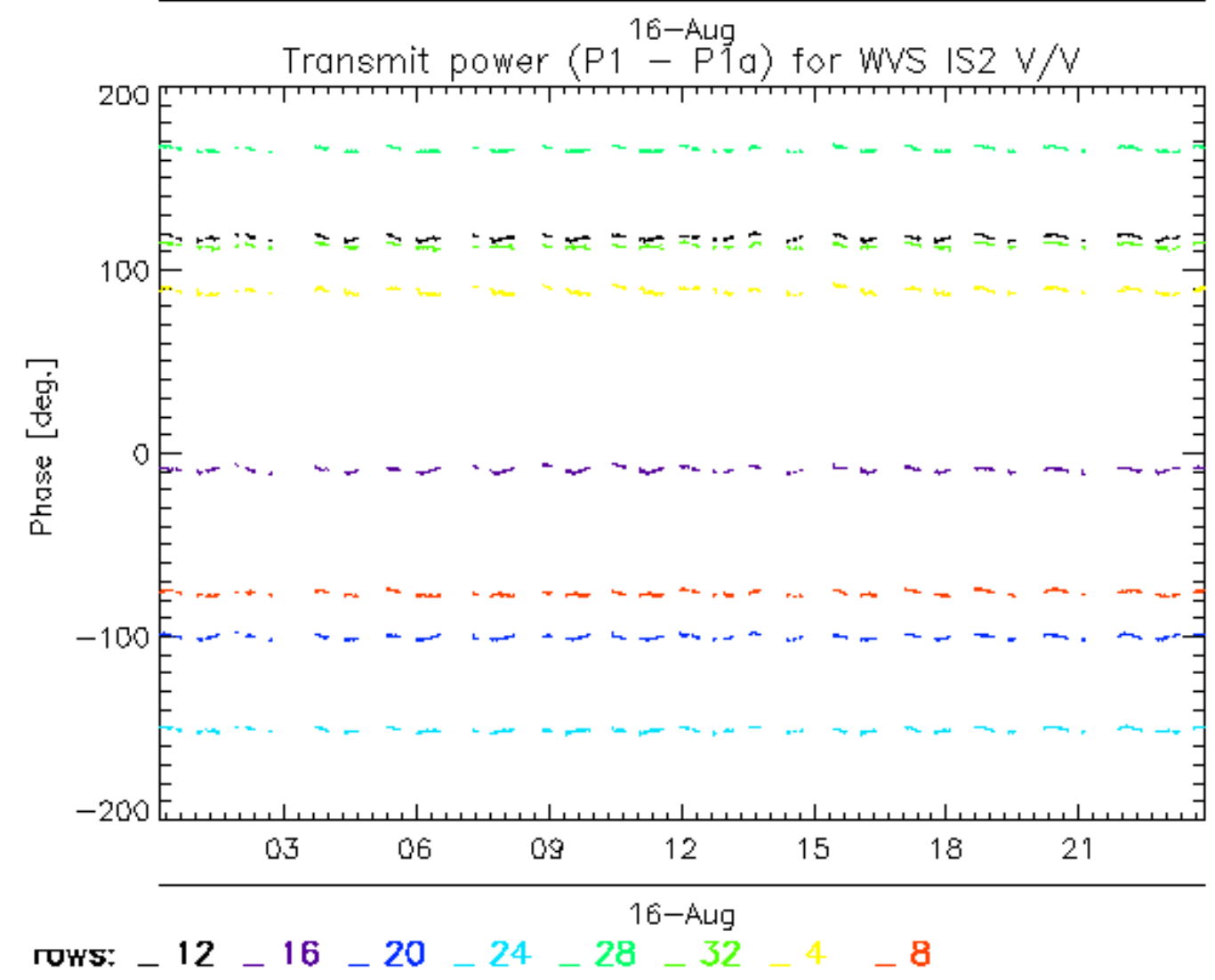
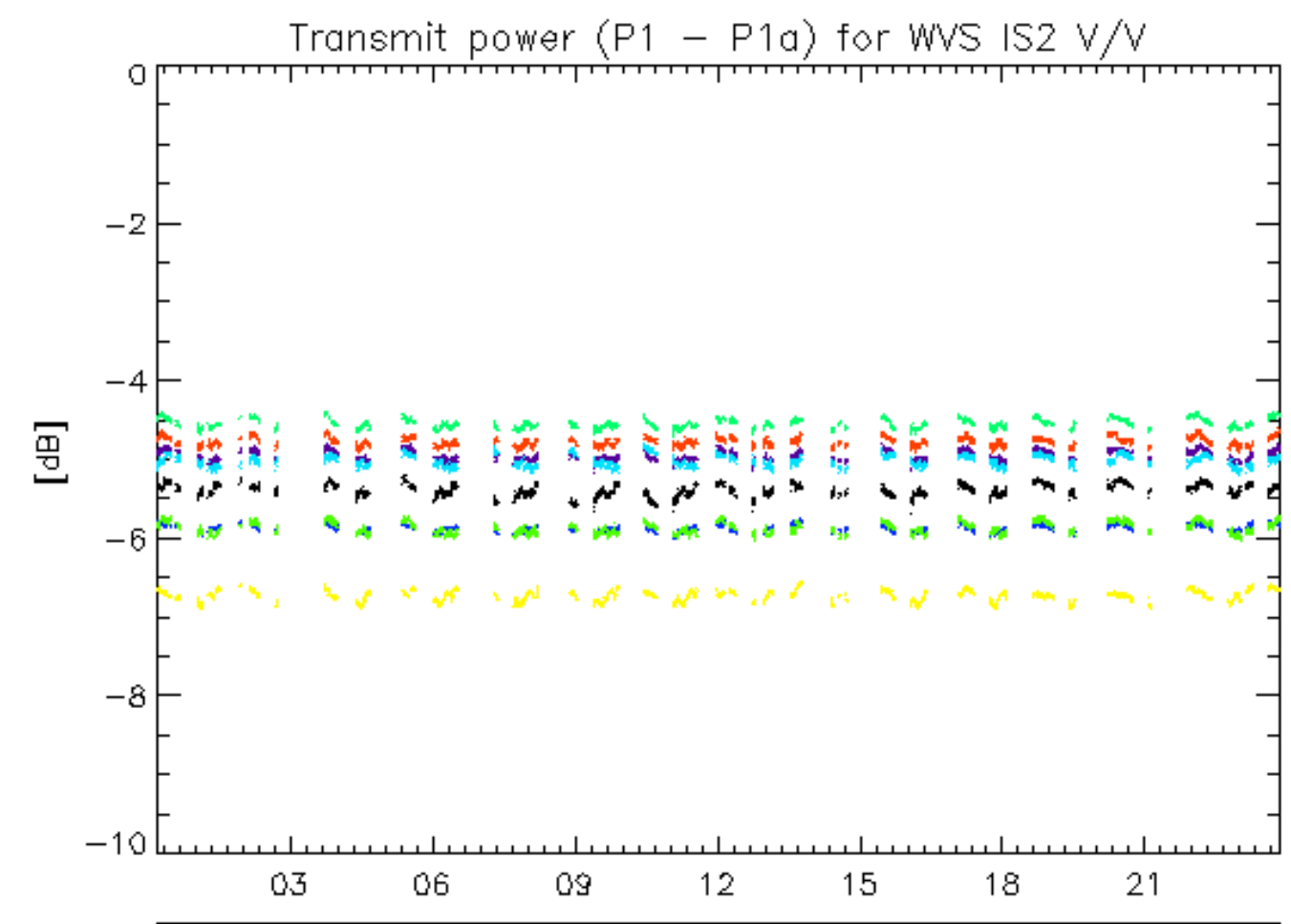
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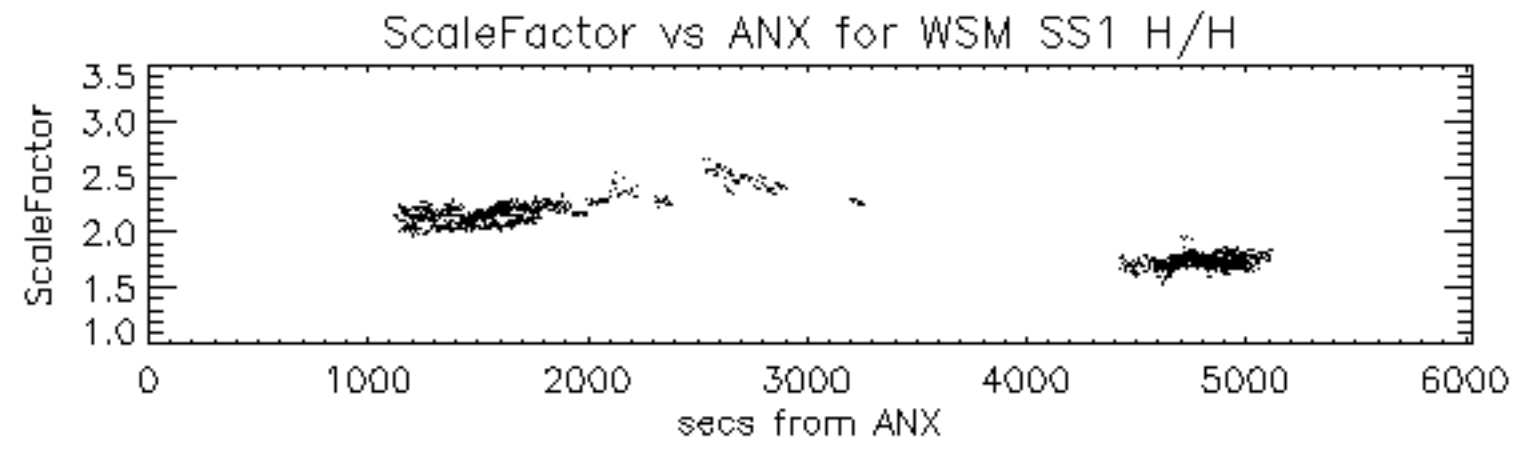


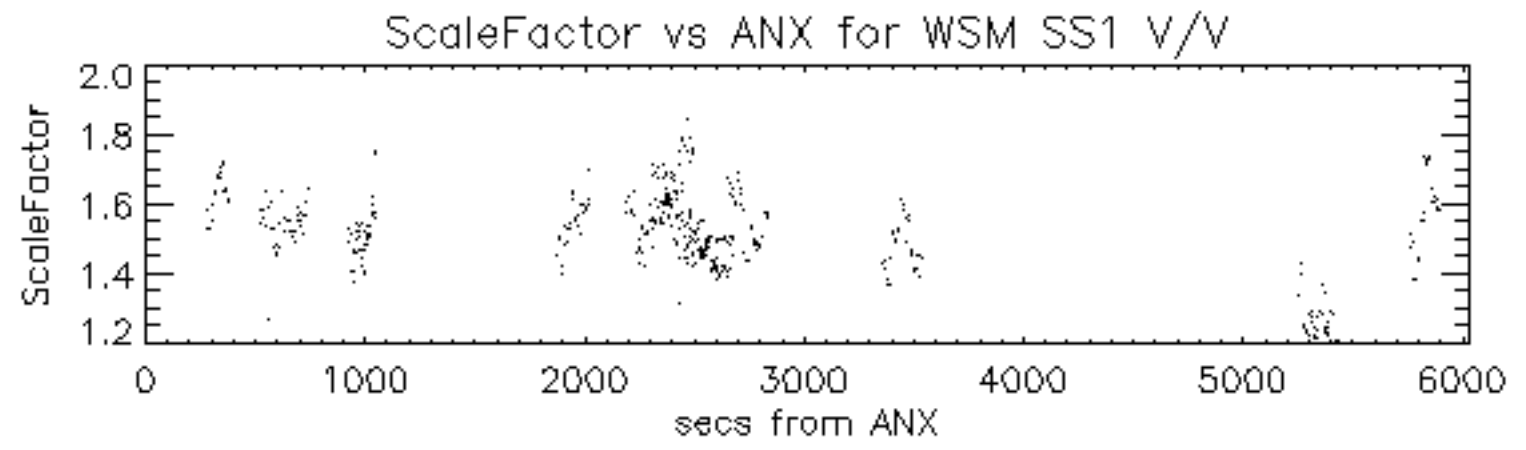


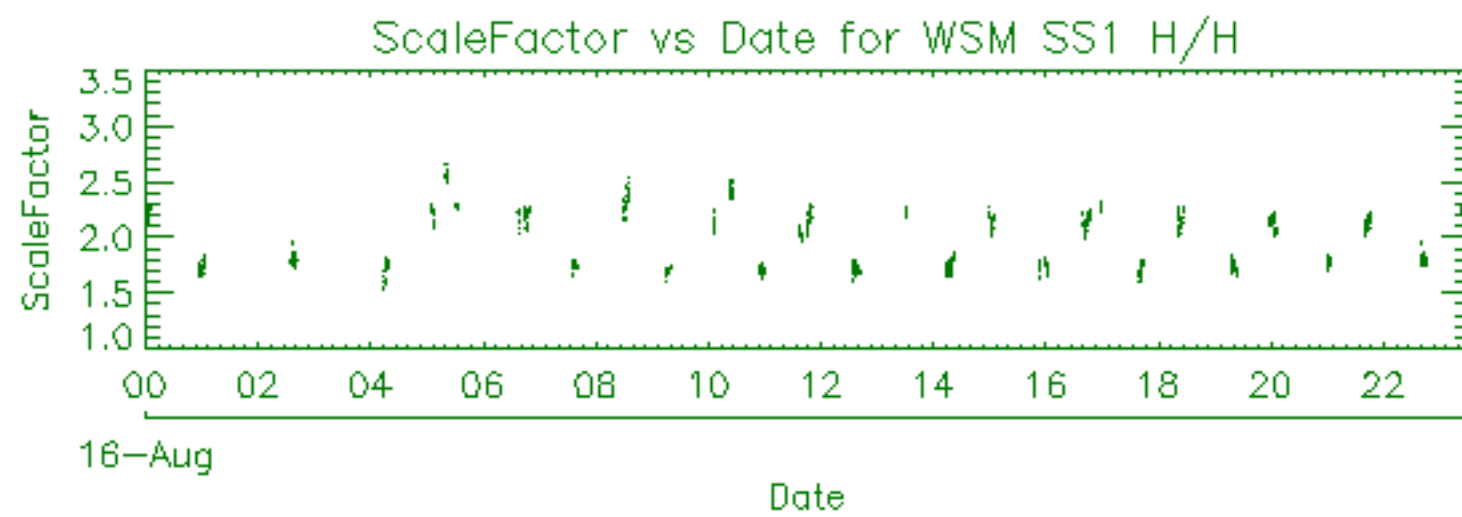


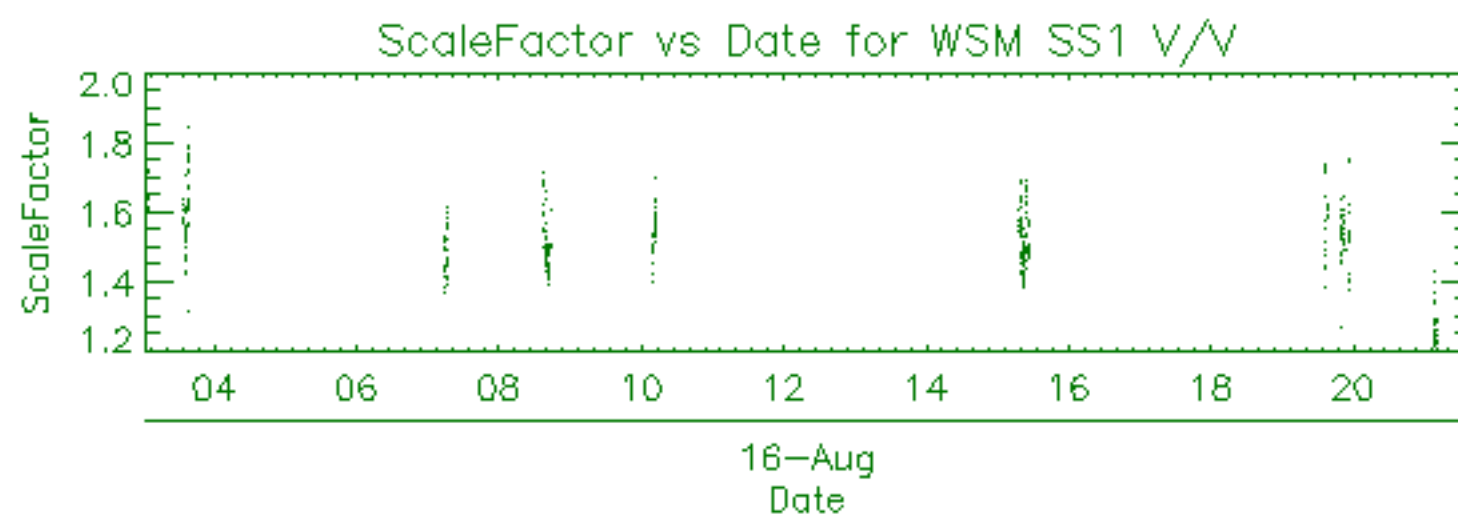
16-Aug
rows: _ 11 _ 15 _ 19 _ 23 _ 27 _ 31 _ 7











Filename	Beam	Pol	CycleNumber	absOrbit	relOrbit	procVersion					
ASA_APM_1PNPDE20110816_020745_000000423105_00319_49471_8895.N1						IS4	V/H	105	49471	319	5.04
ASA_APM_1PNPDE20110816_070904_000001573105_00322_49474_8973.N1						IS4	V/H	105	49474	322	5.04
ASA_APM_1PNPDK20110816_084749_000001493105_00323_49475_6473.N1						IS4	V/H	105	49475	323	5.04
ASA_APM_1PNPDE20110816_200841_000000433105_00330_49482_9170.N1						IS1	H/H	105	49482	330	5.04
ASA_APM_1PNPDK20110816_213402_000000433105_00331_49483_6740.N1						IS6	V/H	105	49483	331	5.04
ASA_APM_1PNPDE20110816_215031_000000423105_00331_49483_9192.N1						IS1	H/H	105	49483	331	5.04

Filename	Beam	Pol	CycleNumber	absOrbit	relOrbit	procVersion					
ASA_GM1_1PNPDE20110816_000507_000004473105_00318_49470_8868.N1						SS1	H/H	105	49470	318	5.04
ASA_GM1_1PNPDE20110816_002753_000001083105_00318_49470_8873.N1						SS1	H/H	105	49470	318	5.04
ASA_GM1_1PNPDE20110816_003124_000002953105_00318_49470_8872.N1						SS1	H/H	105	49470	318	5.04
ASA_GM1_1PNPDE20110816_004234_000008223105_00318_49470_8875.N1						SS1	H/H	105	49470	318	5.04
ASA_GM1_1PNPDE20110816_011104_000003383105_00318_49470_8893.N1						SS1	H/H	105	49470	318	5.04
ASA_GM1_1PNPDE20110816_013224_000014623105_00319_49471_8901.N1						SS1	H/H	105	49471	319	5.04
ASA_GM1_1PNPDE20110816_015841_000001203105_00319_49471_8900.N1						SS1	H/H	105	49471	319	5.04
ASA_GM1_1PNPDE20110816_020318_000002653105_00319_49471_8910.N1						SS1	H/H	105	49471	319	5.04
ASA_GM1_1PNPDE20110816_022248_000007193105_00319_49471_8908.N1						SS1	H/H	105	49471	319	5.04
ASA_GM1_1PNPDE20110816_024751_000003983105_00319_49471_8907.N1						SS1	H/H	105	49471	319	5.04
ASA_GM1_1PNPDE20110816_025601_000003563105_00319_49471_8906.N1						SS1	H/H	105	49471	319	5.04
ASA_GM1_1PNPDE20110816_030411_000017763105_00320_49472_8905.N1						SS1	H/H	105	49472	320	5.04
ASA_GM1_1PNPDE20110816_033932_000002173105_00320_49472_8902.N1						SS1	H/H	105	49472	320	5.04
ASA_GM1_1PNPDE20110816_040319_000006223105_00320_49472_8952.N1						SS1	H/H	105	49472	320	5.04
ASA_GM1_1PNPDE20110816_042020_000001443105_00320_49472_8953.N1						SS1	H/H	105	49472	320	5.04
ASA_GM1_1PNPDE20110816_044137_000013963105_00321_49473_8954.N1						SS1	H/H	105	49473	321	5.04
ASA_GM1_1PNPDE20110816_050748_000004833105_00321_49473_8959.N1						SS1	H/H	105	49473	321	5.04
ASA_GM1_1PNPDE20110816_054316_000005373105_00321_49473_8975.N1						SS1	H/H	105	49473	321	5.04
ASA_GM1_1PNPDE20110816_055952_000001383105_00321_49473_8977.N1						SS1	H/H	105	49473	321	5.04
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ASA_GM1_1PNPDE20110816_070457_000002473105_00322_49474_8983.N1						SS1	H/H	105	49474	322	5.04
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ASA_GM1_1PNPDK20110816_072330_000006713105_00322_49474_6425.N1						SS1	H/H	105	49474	322	5.04
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ASA_GM1_1PNPDK20110816_081411_000007793105_00323_49475_6429.N1						SS1	H/H	105	49475	323	5.04
ASA_GM1_1PNPDK20110816_082625_000001753105_00323_49475_6460.N1						SS1	H/H	105	49475	323	5.04
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ASA_GM1_1PNPDK20110816_100739_000001083105_00324_49476_6510.N1						SS1	H/H	105	49476	324	5.04
ASA_GM1_1PNPDK20110816_104359_000000783105_00324_49476_6509.N1						SS1	H/H	105	49476	324	5.04
ASA_GM1_1PNPDK20110816_104646_000004773105_00324_49476_6511.N1						SS1	H/H	105	49476	324	5.04
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ASA_GM1_1PNPDK20110816_113501_000001813105_00325_49477_6515.N1						SS1	H/H	105	49477	325	5.04
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ASA_GM1_1PNPDK20110816_150636_000002773105_00327_49479_6646.N1						SS1	H/H	105	49479	327	5.04
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ASA_GM1_1PNPDK20110816_154443_000004893105_00327_49479_6648.N1						SS1	H/H	105	49479	327	5.04
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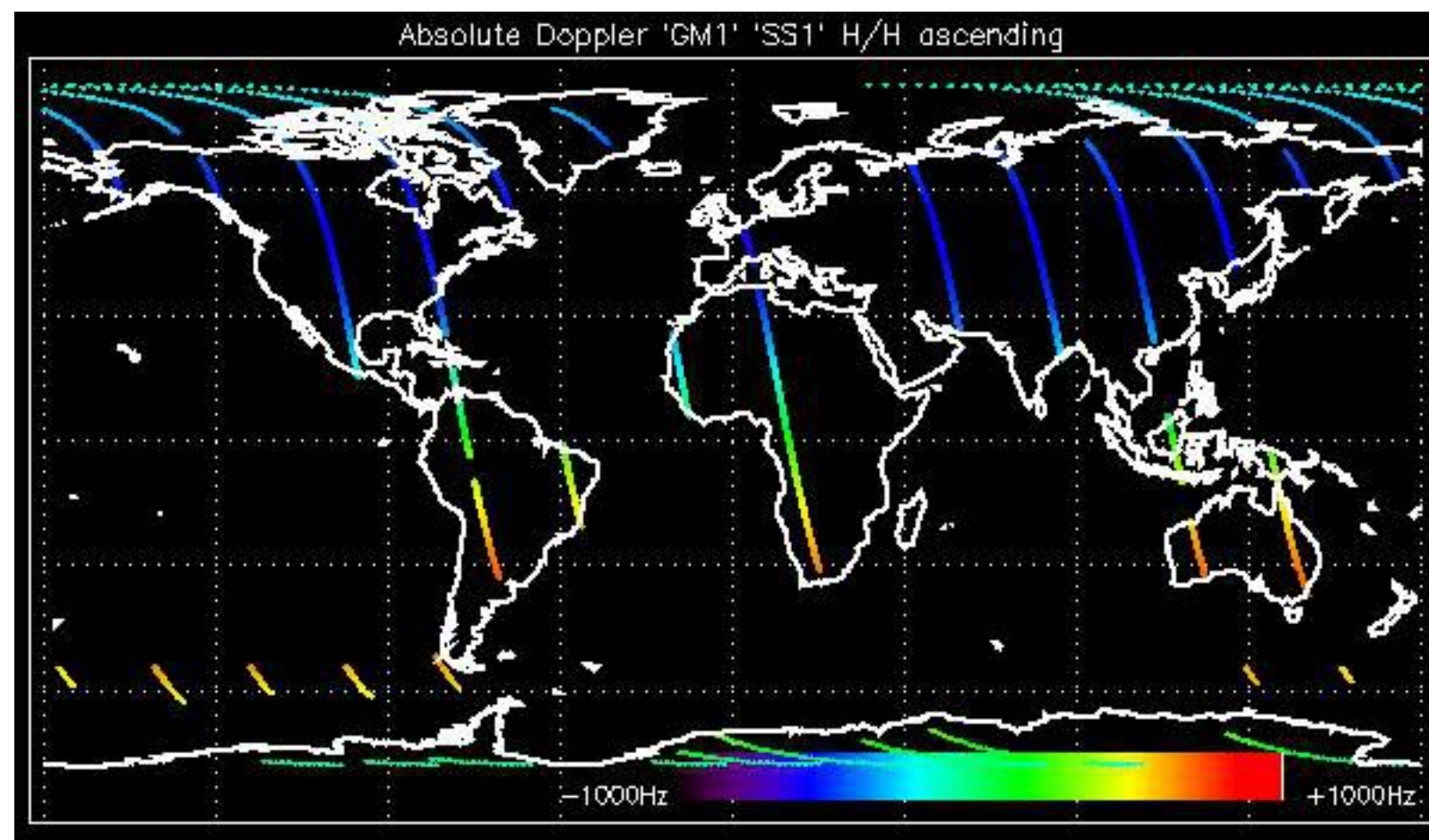
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ASA_GM1_1PNPDE20110816_215134_000000843105_00331_49483_9182.N1	SS1	H/H	105	49483	331	5.04
ASA_GM1_1PNPDE20110816_222536_000007913105_00331_49483_9185.N1	SS1	H/H	105	49483	331	5.04
ASA_GM1_1PNPDE20110816_230127_000003503105_00332_49484_9203.N1	SS1	H/H	105	49484	332	5.04
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ASA_GM1_1PNPDE20110816_235055_000001383105_00332_49484_9210.N1	SS1	H/H	105	49484	332	5.04
ASA_GM1_1PNPDE20110816_235438_000003023105_00332_49484_9209.N1	SS1	H/H	105	49484	332	5.04
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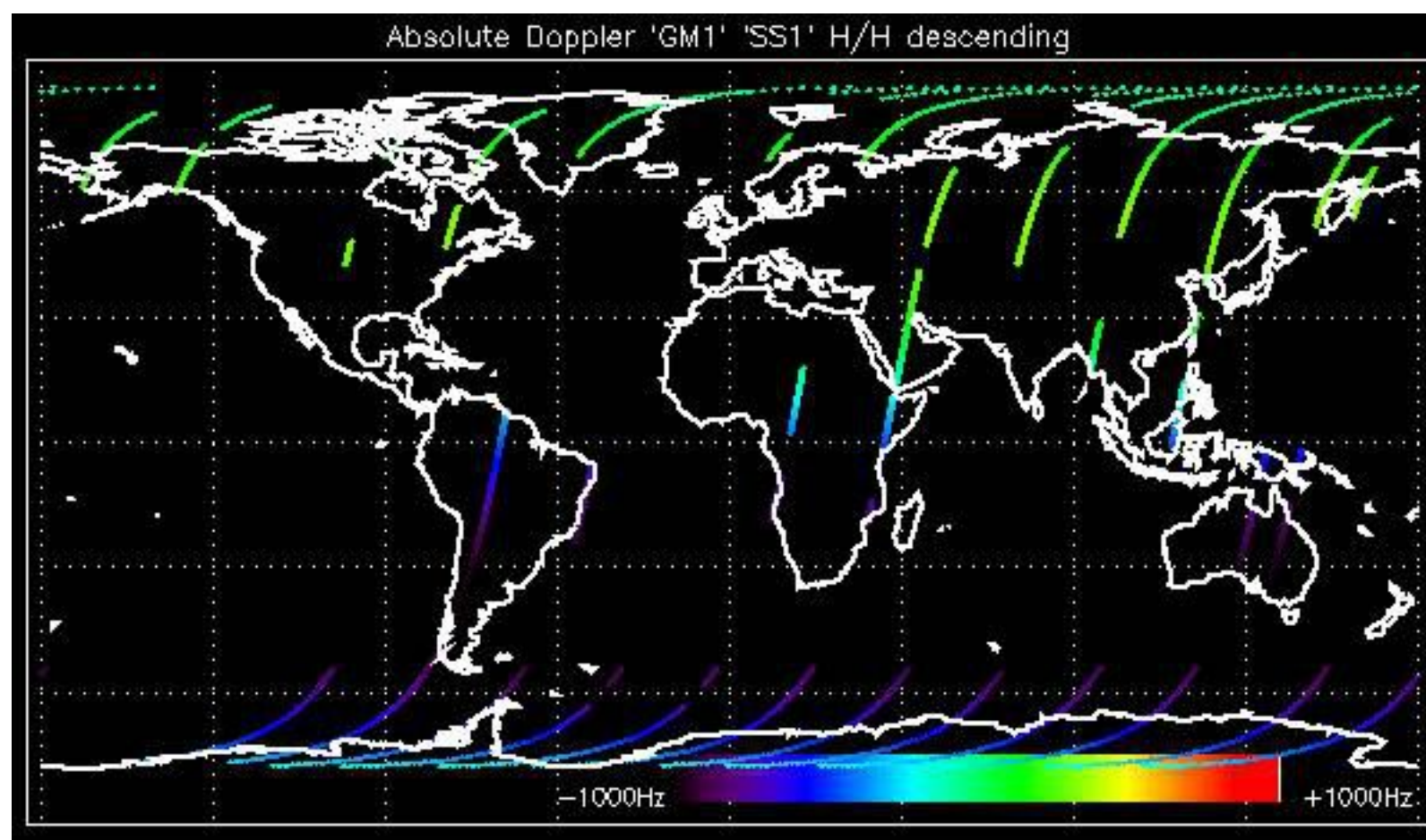
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ASA_IMM_1PNPDE20110816_020233_000000373105_00319_49471_8891.N1						IS3	H/H	105	49471	319	5.04
ASA_IMM_1PNPDE20110816_024705_000000383105_00319_49471_8898.N1						IS5	V/V	105	49471	319	5.04
ASA_IMM_1PNPDE20110816_025430_000000763105_00319_49471_8897.N1						IS5	H/H	105	49471	319	5.04
ASA_IMM_1PNPDE20110816_051553_000001583105_00321_49473_8940.N1						IS6	H/H	105	49473	321	5.04
ASA_IMM_1PNPDE20110816_070406_000000373105_00322_49474_8970.N1						IS6	V/V	105	49474	322	5.04
ASA_IMM_1PNPDE20110816_110654_000000523105_00324_49476_9034.N1						IS6	H/H	105	49476	324	5.04
ASA_IMM_1PNPDE20110816_151611_000000383105_00327_49479_9067.N1						IS5	V/V	105	49479	327	5.04
ASA_IMM_1PNPDE20110816_202405_000000443105_00330_49482_9169.N1						IS3	V/V	105	49482	330	5.04
ASA_IMM_1PNPDE20110816_205626_000000373105_00330_49482_9152.N1						IS2	V/V	105	49482	330	5.04

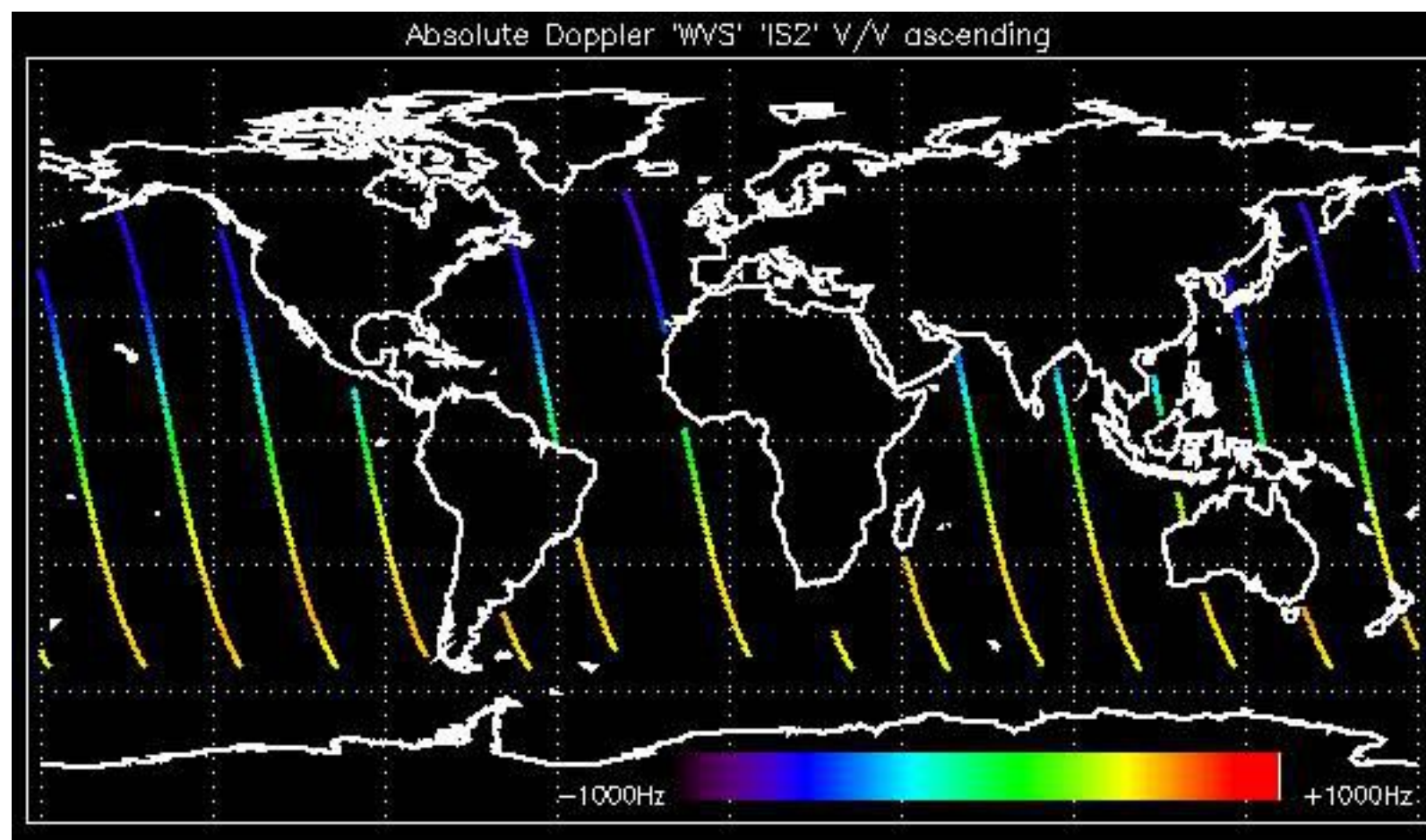
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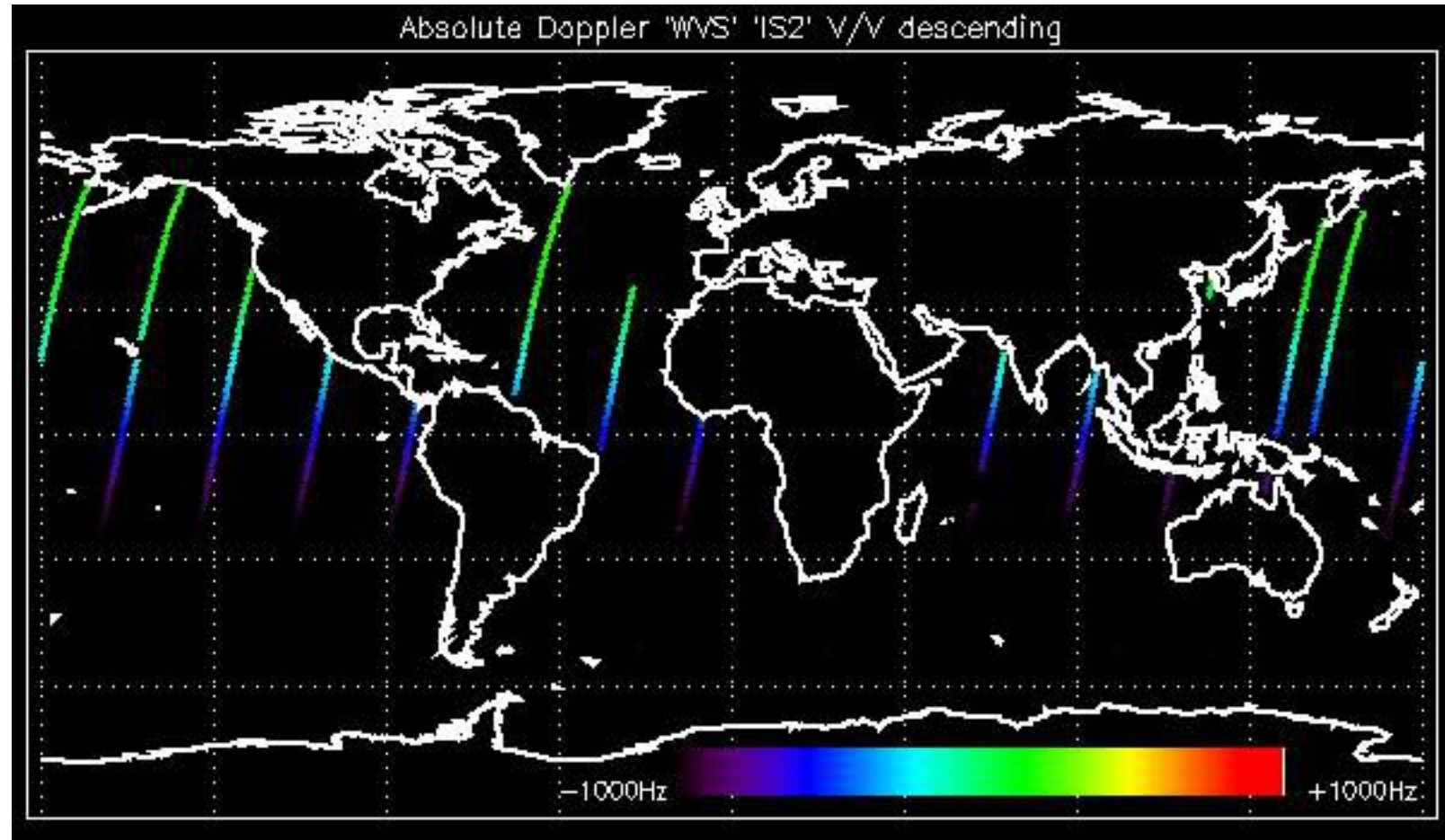
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ASA_WSM_1PNPDE20110816_063651_000000923105_00322_49474_8985.N1						SS1	H/H	105	49474	322	5.04
ASA_WSM_1PNPDK20110816_064413_000003123105_00322_49474_6405.N1						SS1	H/H	105	49474	322	5.04
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ASA_WSM_1PNPDE20110816_100936_000001713105_00324_49476_9031.N1						SS1	V/V	105	49476	324	5.04
ASA_WSM_1PNPDE20110816_102212_000003003105_00324_49476_9033.N1						SS1	H/H	105	49476	324	5.04
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ASA_WSM_1PNPDE20110816_194826_000002393105_00330_49482_9138.N1						SS1	V/V	105	49482	330	5.04
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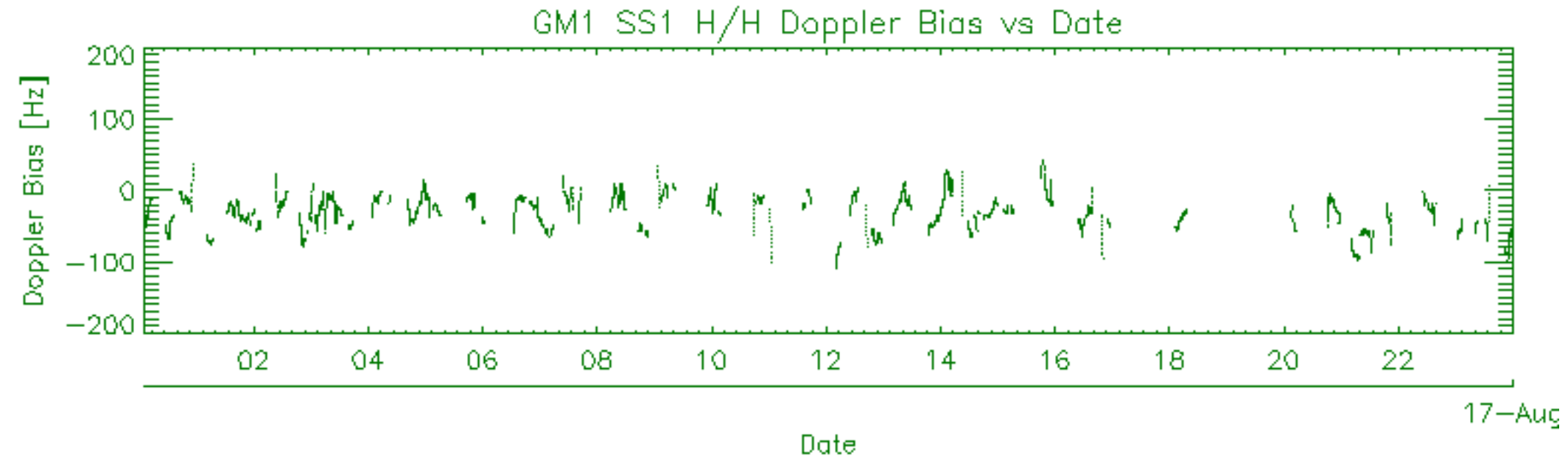
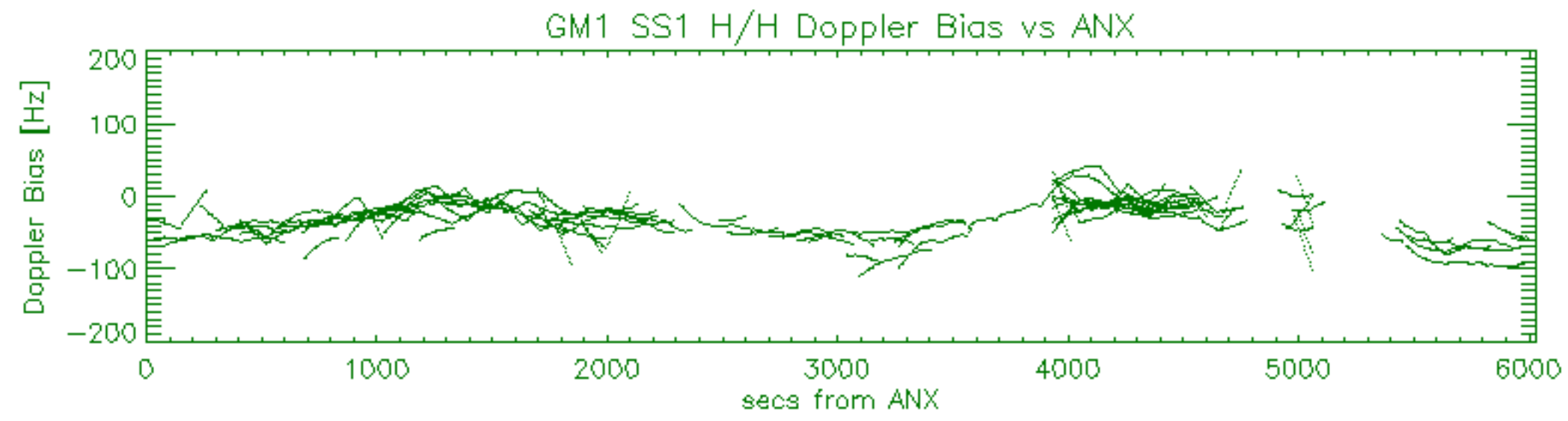
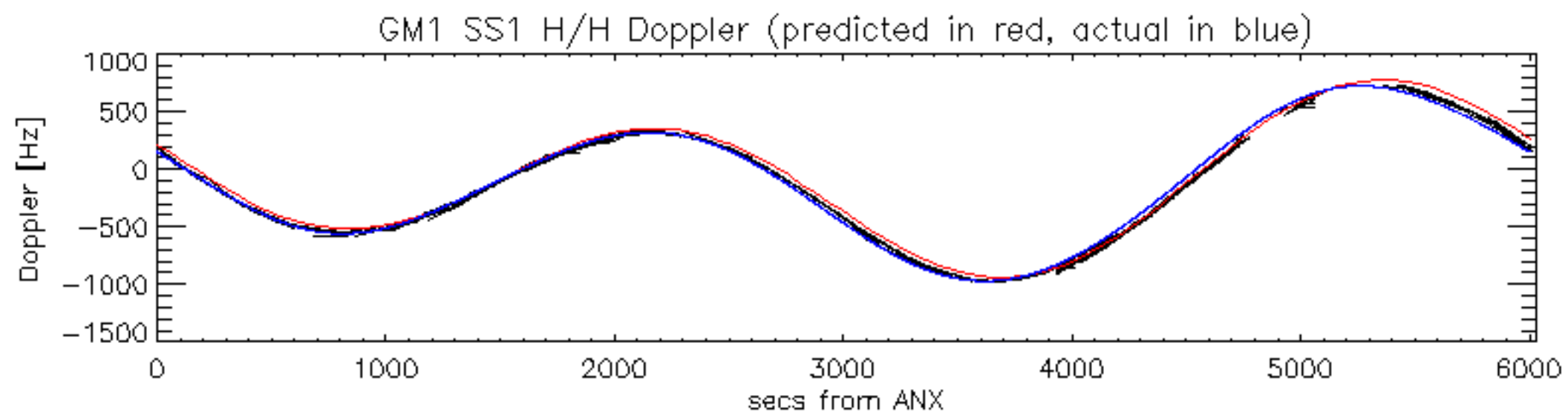
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ASA_WVS_1PNPDE20110816_003623_000003303105_00318_49470_8870.N1						IS2	V/V	105	49470	318	5.04
ASA_WVS_1PNPDE20110816_010244_000002103105_00318_49470_8874.N1						IS2	V/V	105	49470	318	5.04
ASA_WVS_1PNPDE20110816_010529_000002853105_00318_49470_8894.N1						IS2	V/V	105	49470	318	5.04
ASA_WVS_1PNPDE20110816_011644_000008993105_00318_49470_8899.N1						IS2	V/V	105	49470	318	5.04
ASA_WVS_1PNPDE20110816_015647_000000743105_00319_49471_8911.N1						IS2	V/V	105	49471	319	5.04
ASA_WVS_1PNPDE20110816_020948_000007343105_00319_49471_8909.N1						IS2	V/V	105	49471	319	5.04
ASA_WVS_1PNPDE20110816_024139_000002253105_00319_49471_8904.N1						IS2	V/V	105	49471	319	5.04
ASA_WVS_1PNPDE20110816_034314_000008093105_00320_49472_8903.N1						IS2	V/V	105	49472	320	5.04
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ASA_WVS_1PNPDE20110816_052220_000004643105_00321_49473_8955.N1						IS2	V/V	105	49473	321	5.04
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ASA_WVS_1PNPDK20110816_115849_000006443105_00325_49477_6557.N1						IS2	V/V	105	49477	325	5.04
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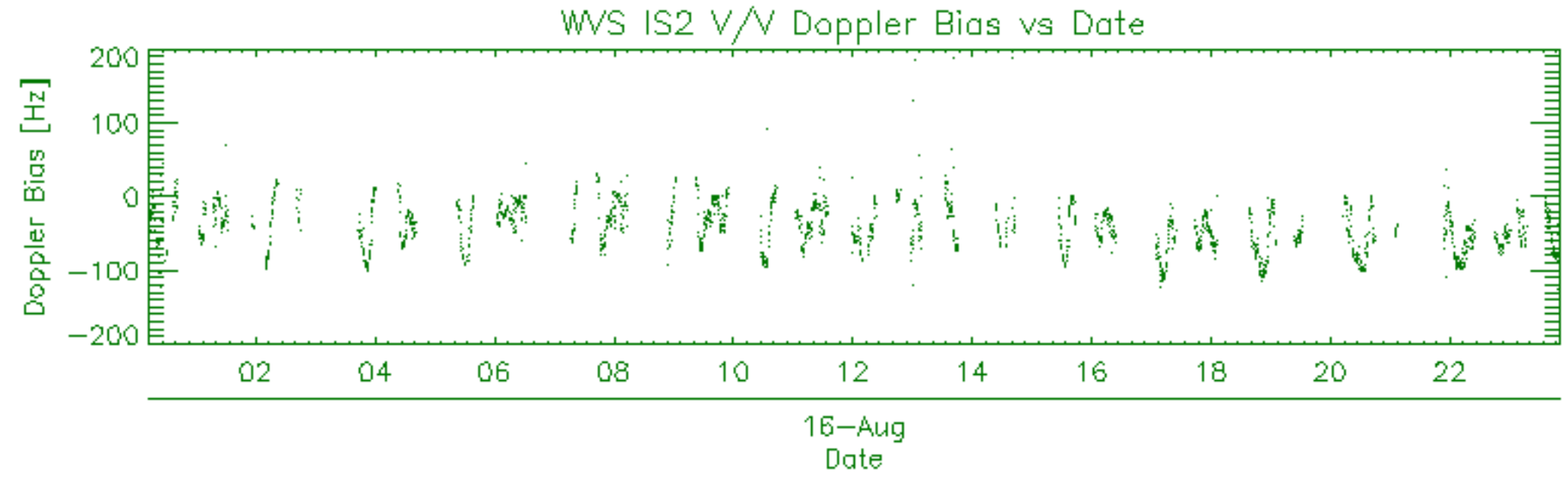
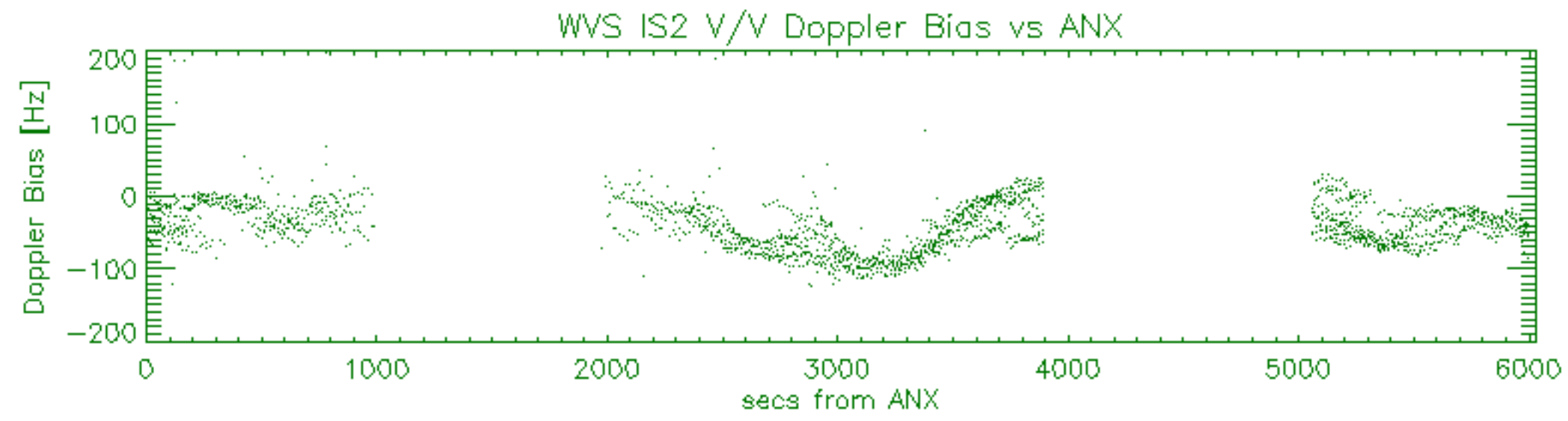
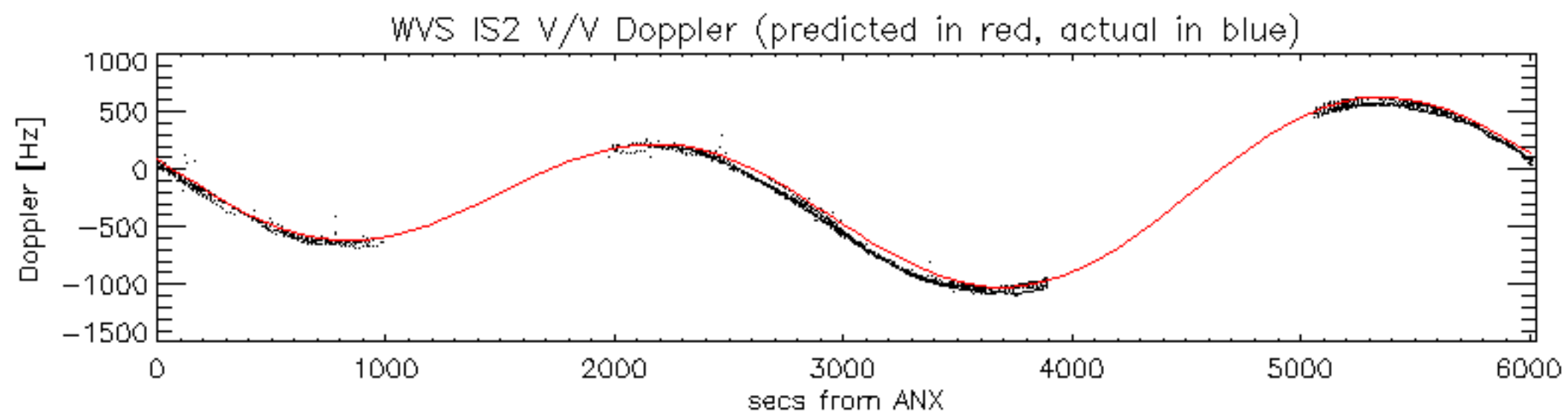


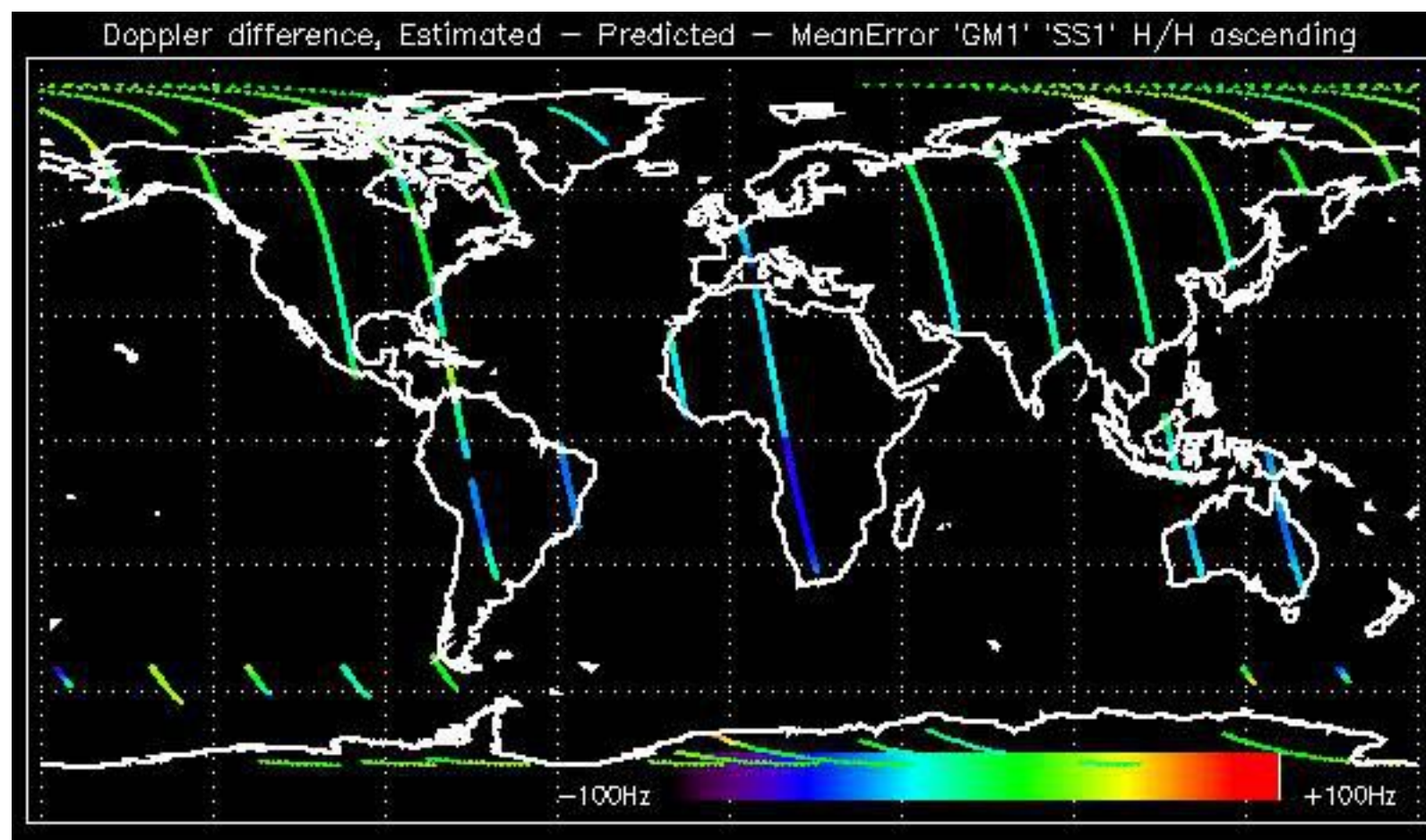


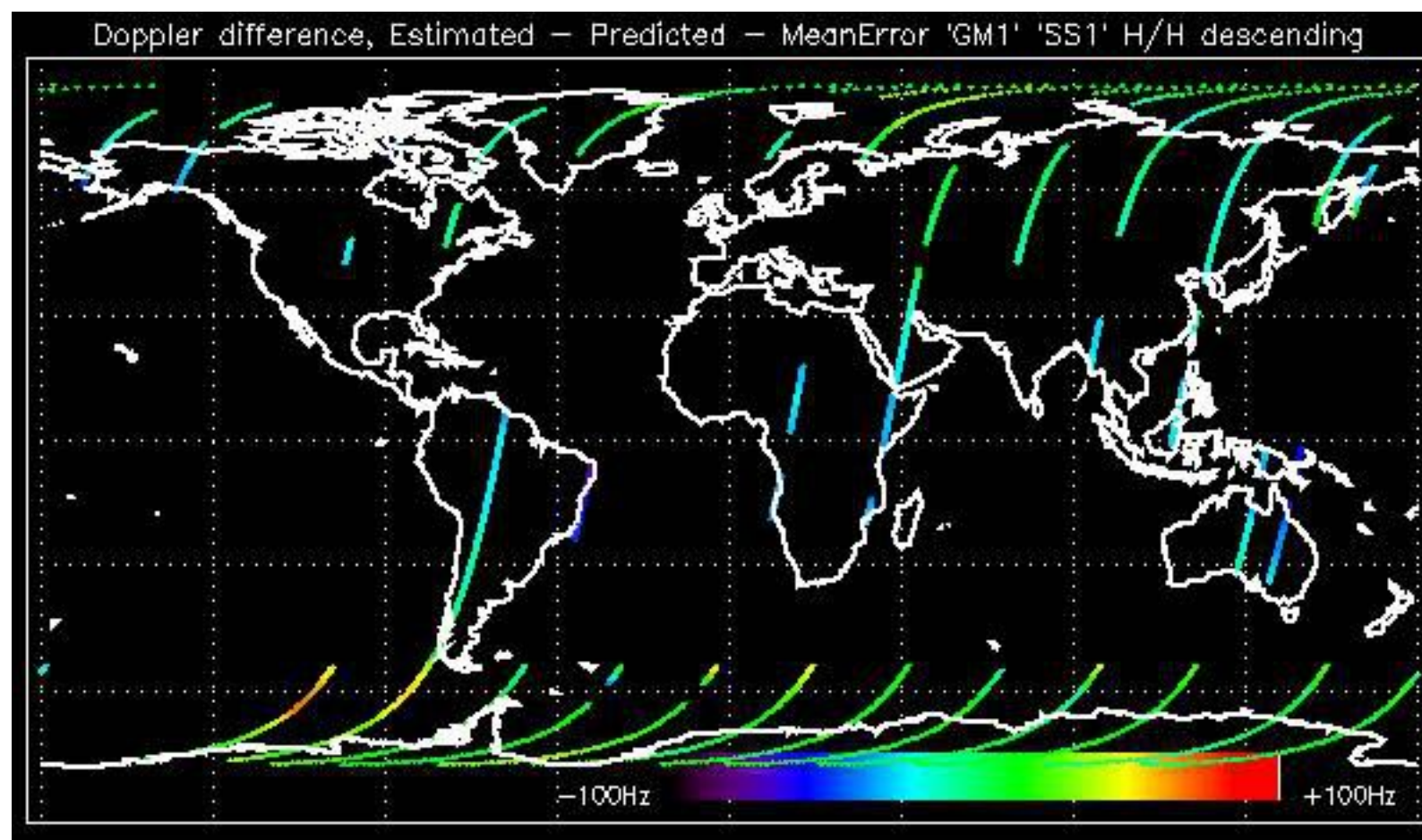


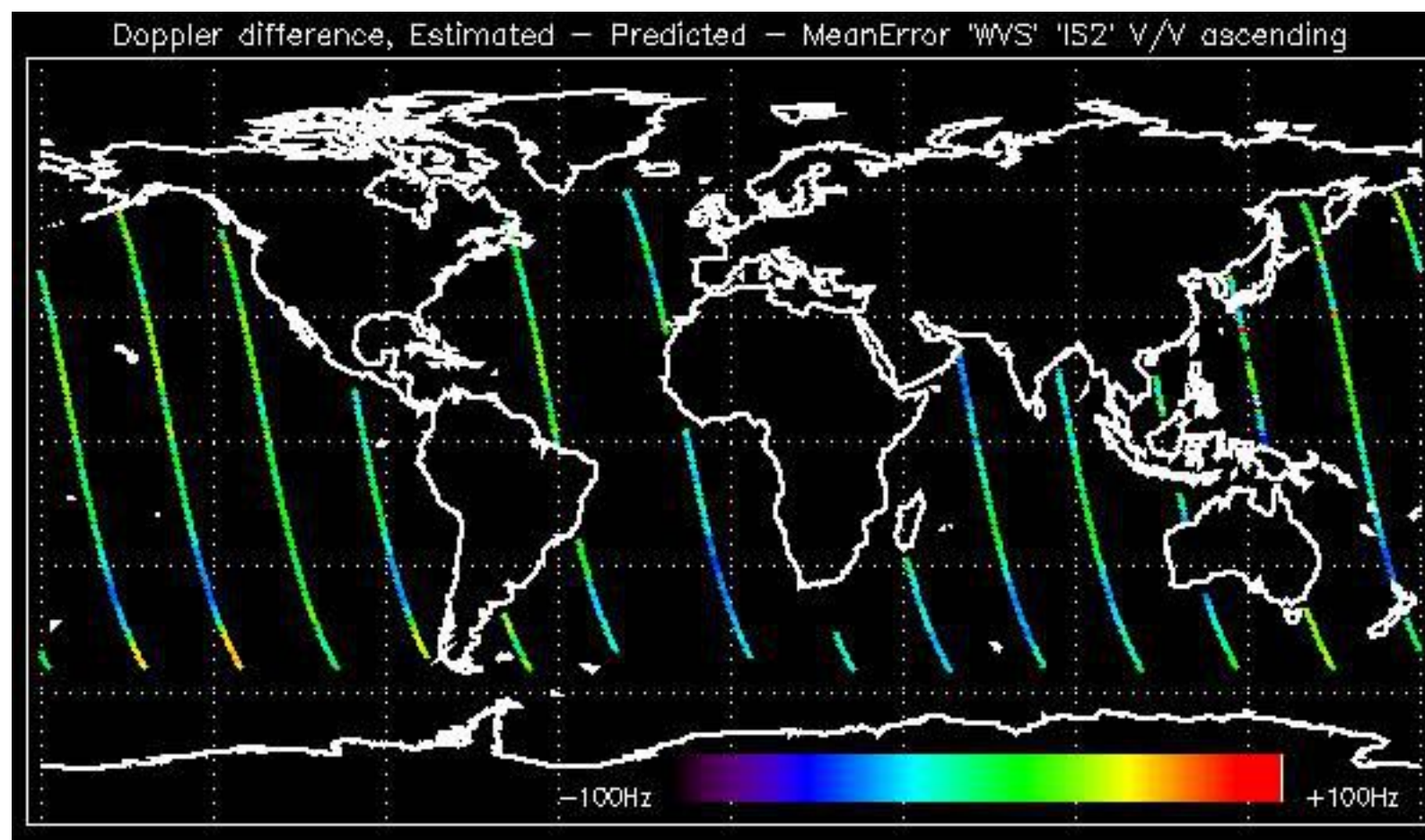


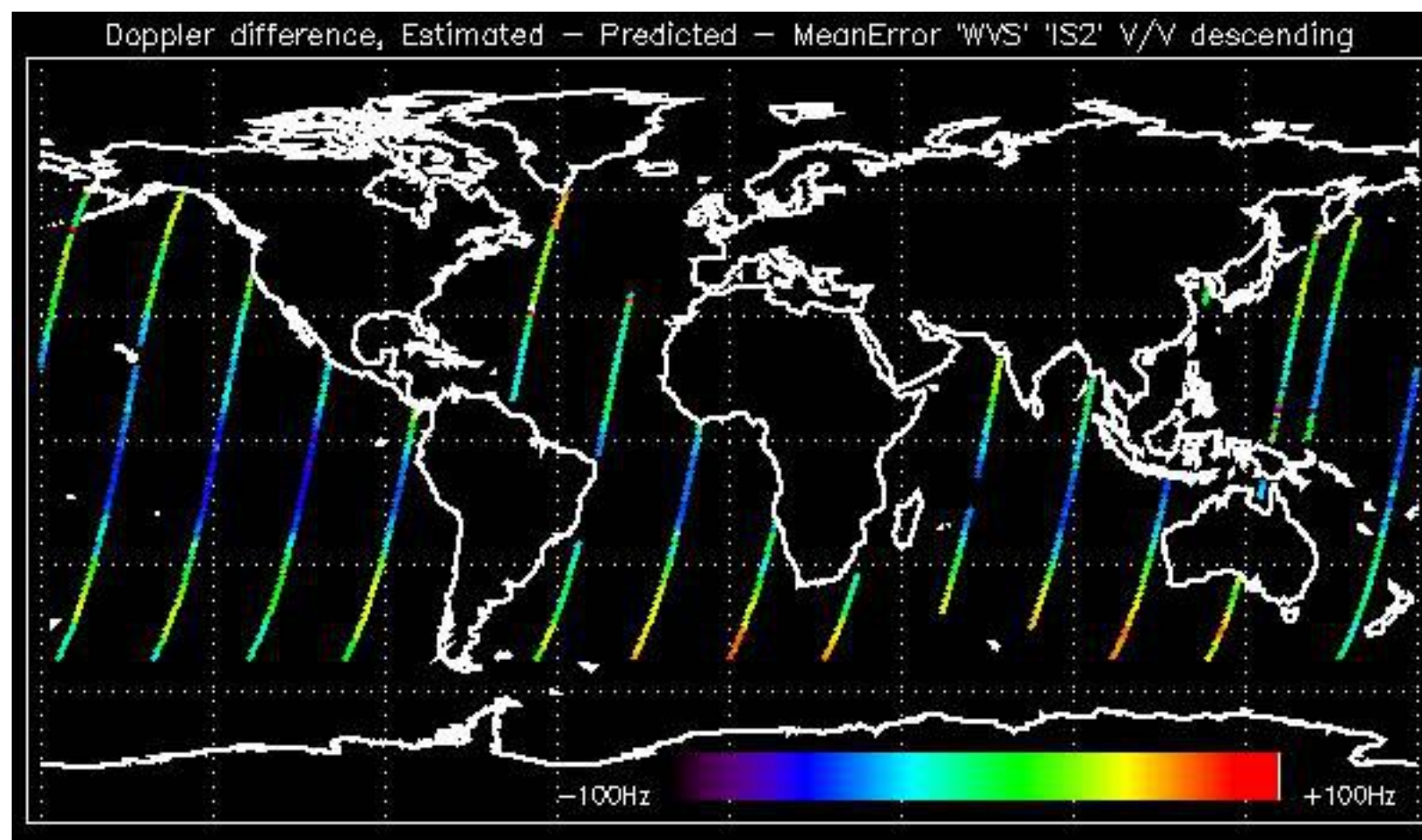


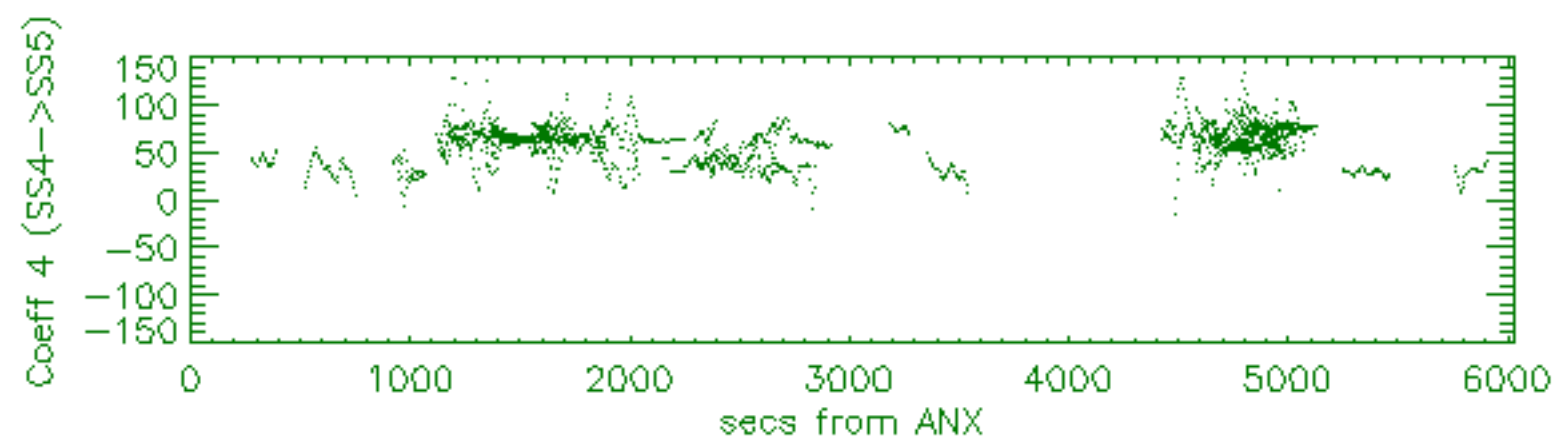
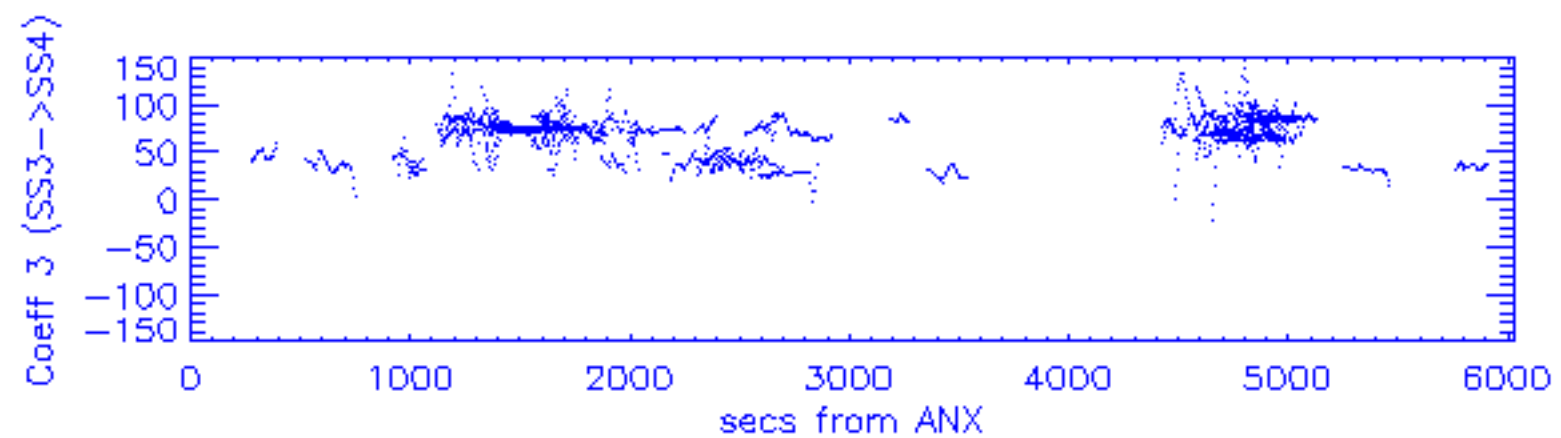
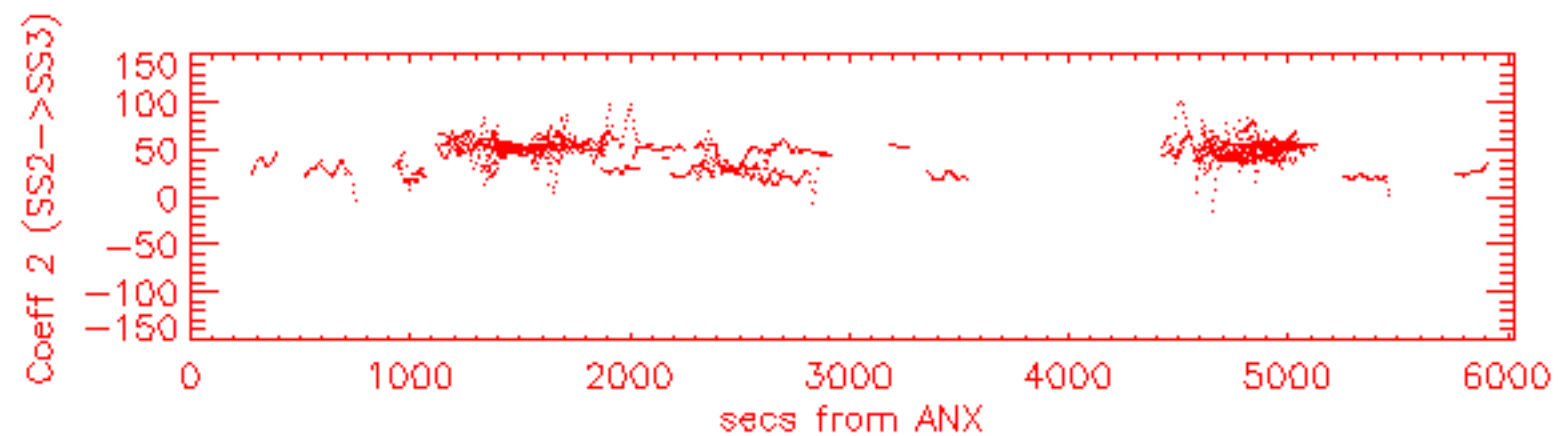
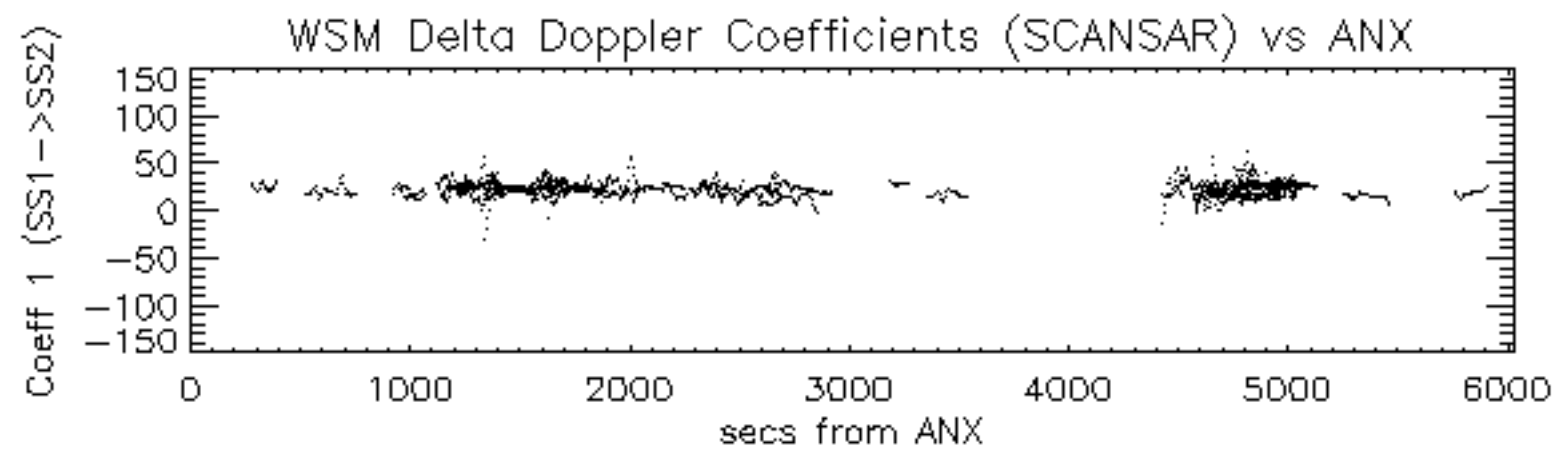


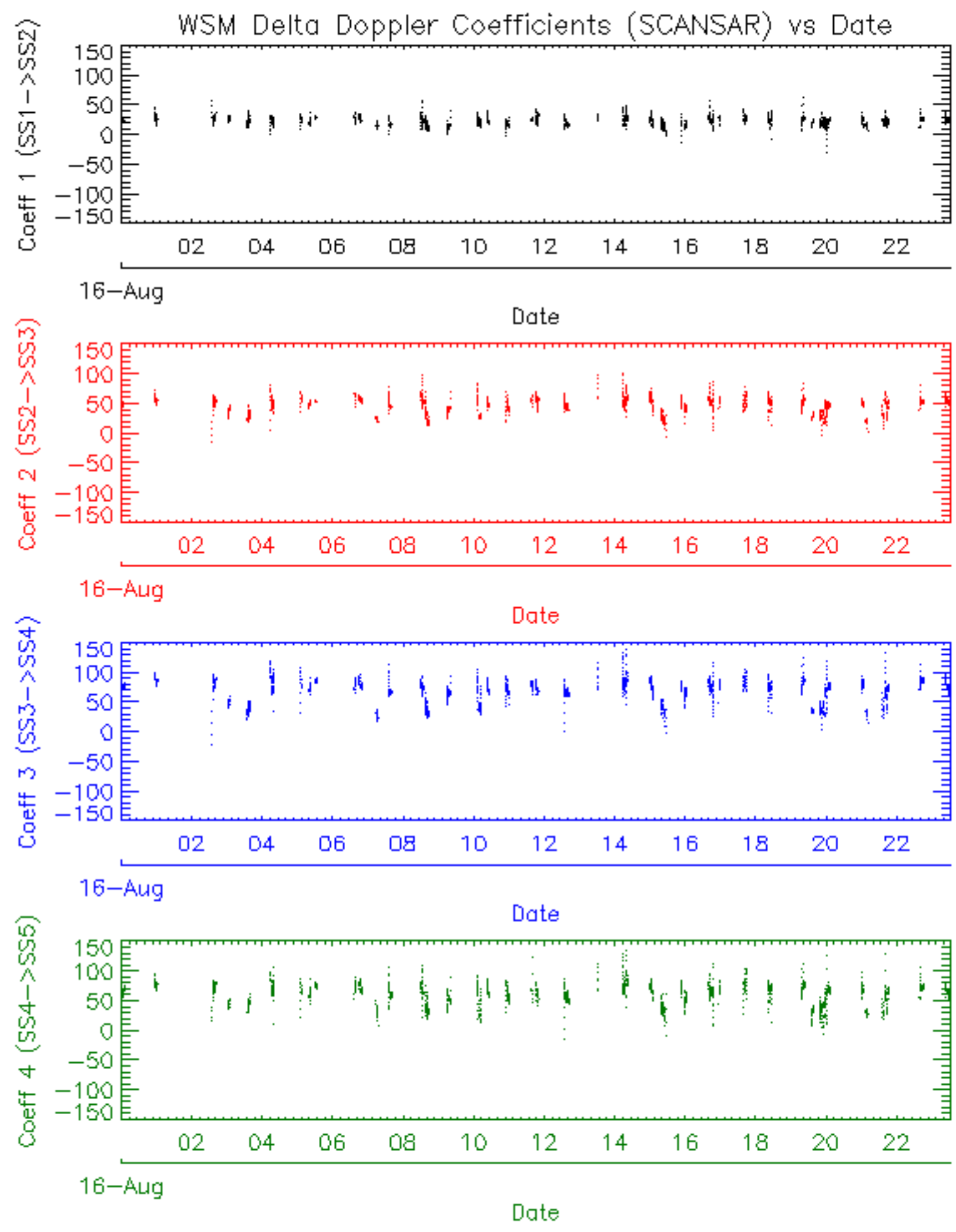


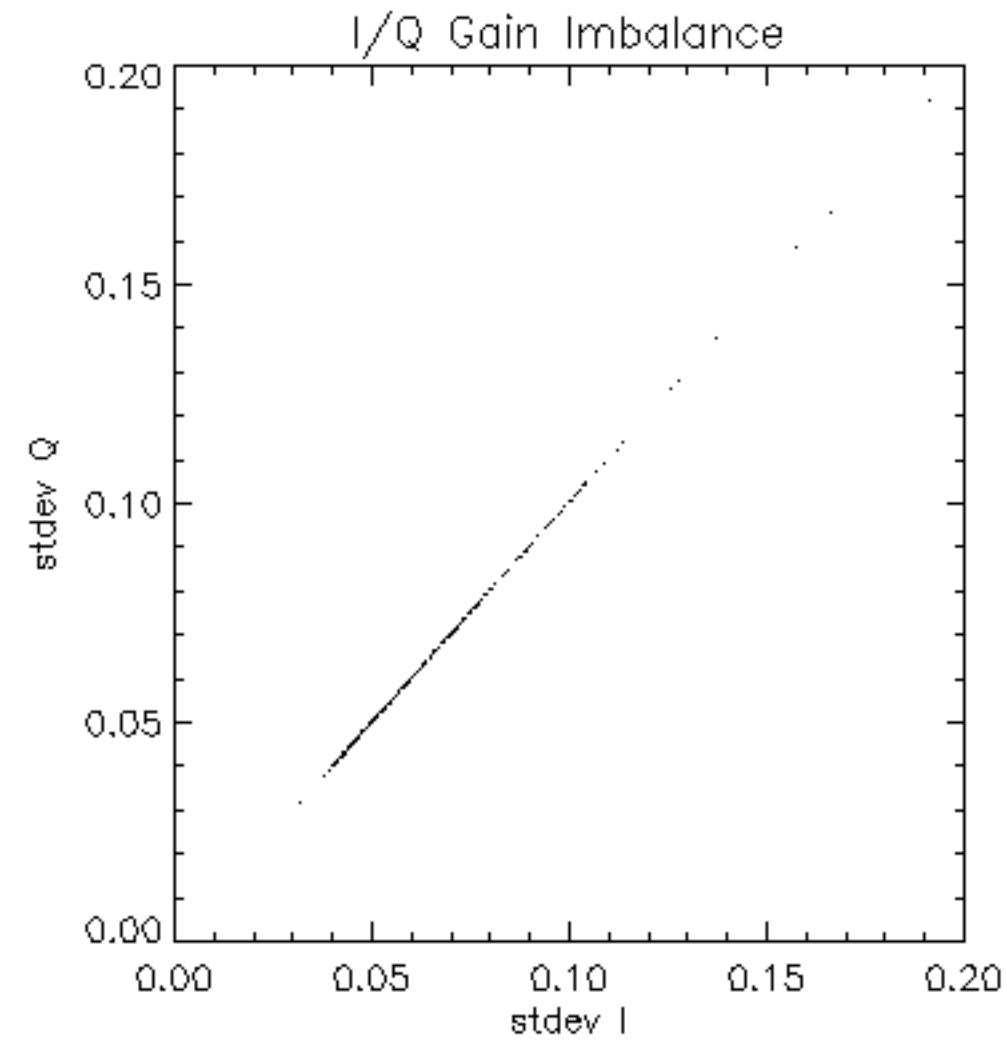


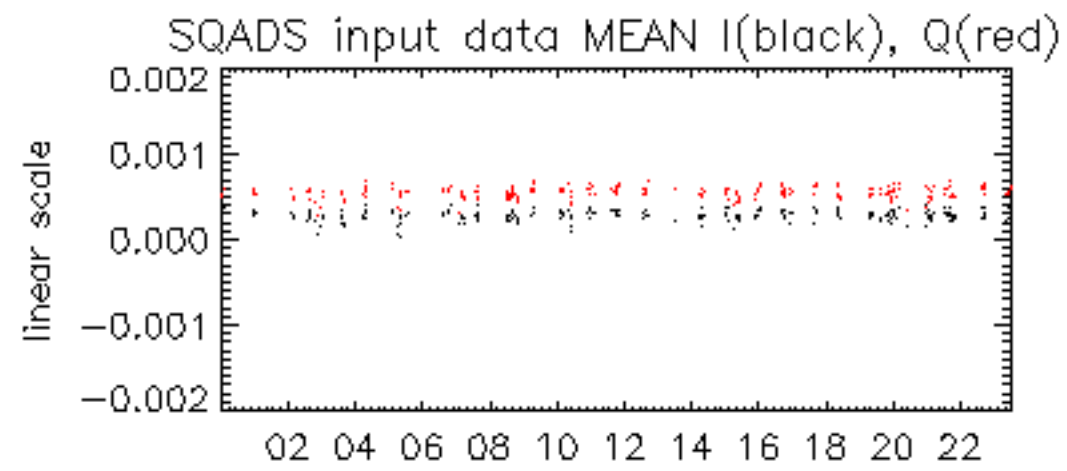




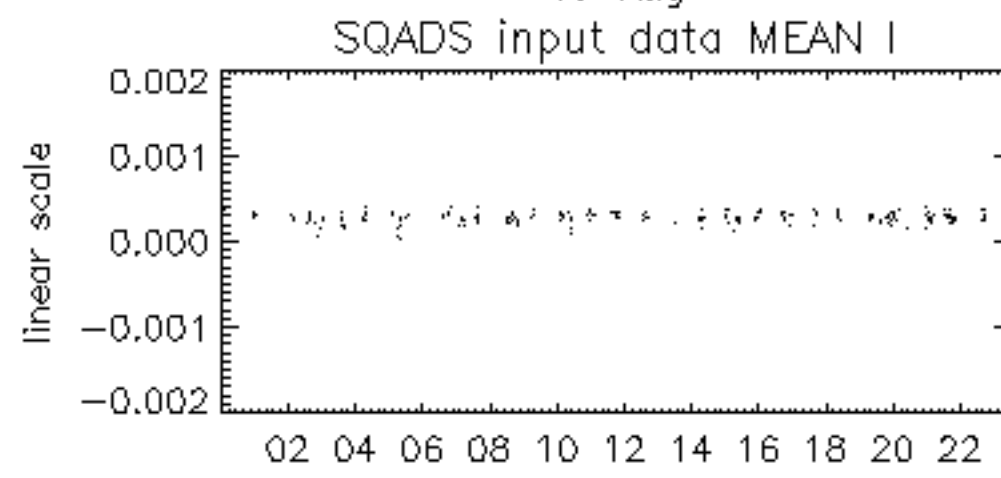




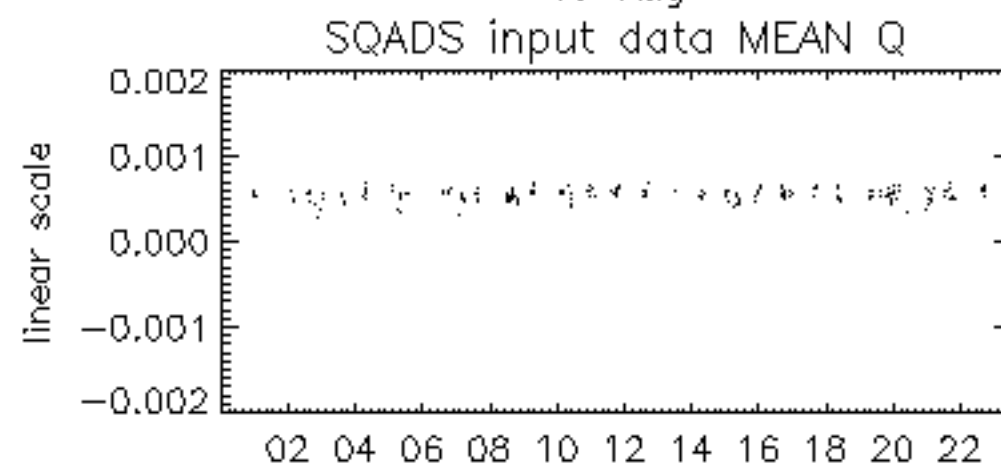




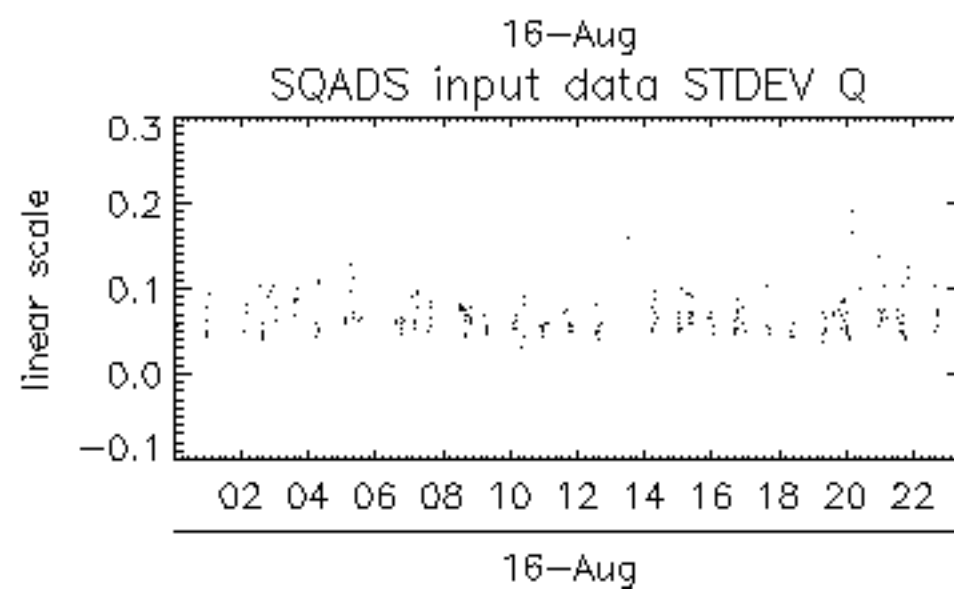
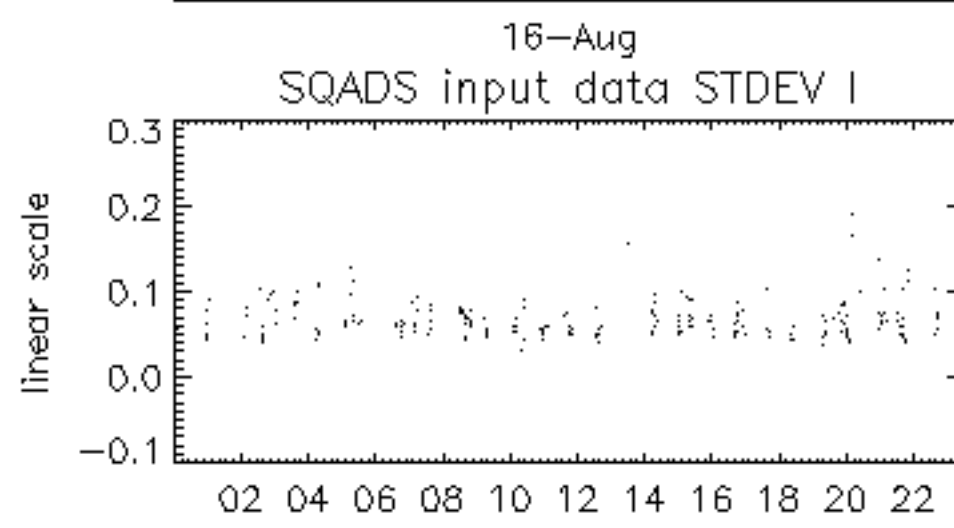
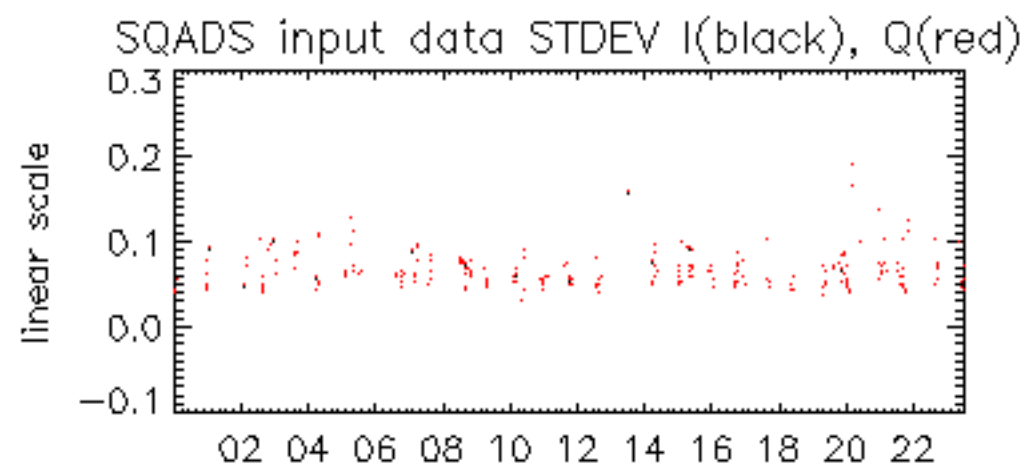
16-Aug

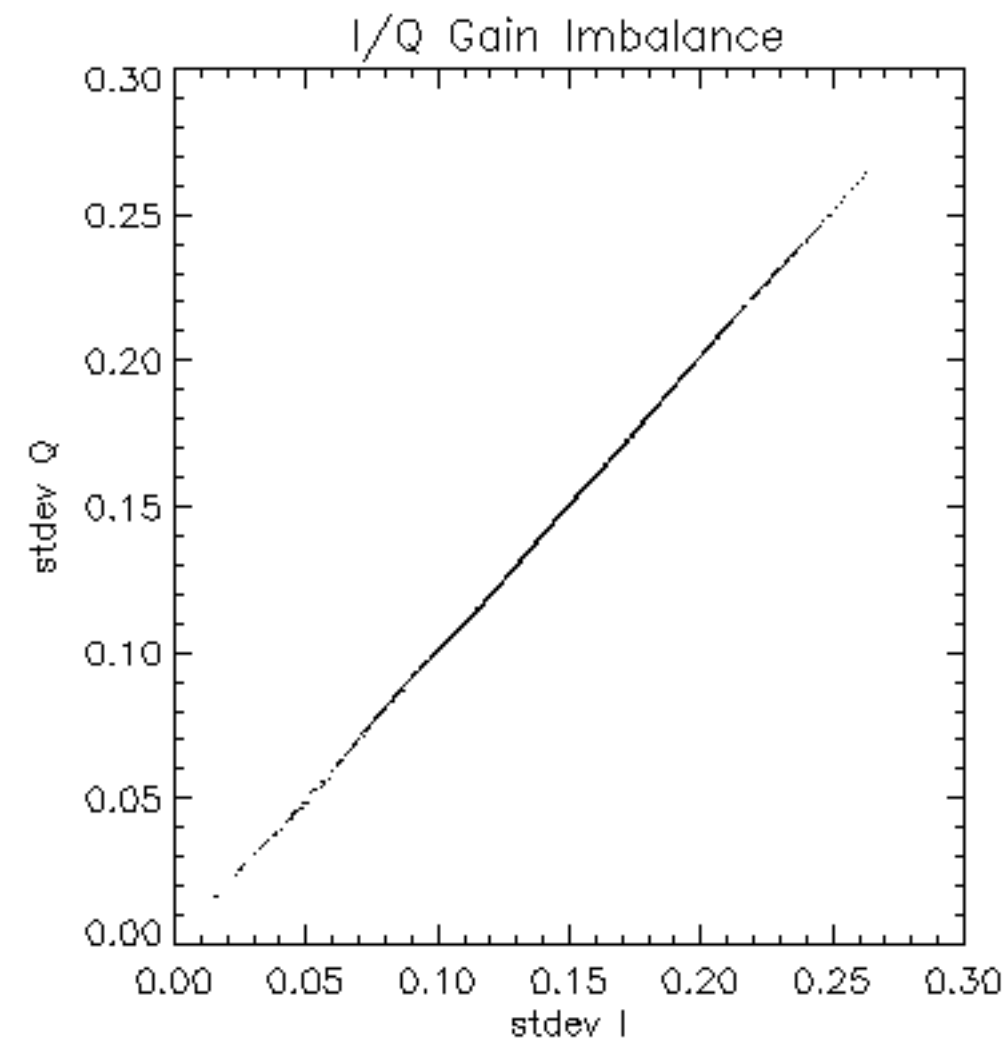


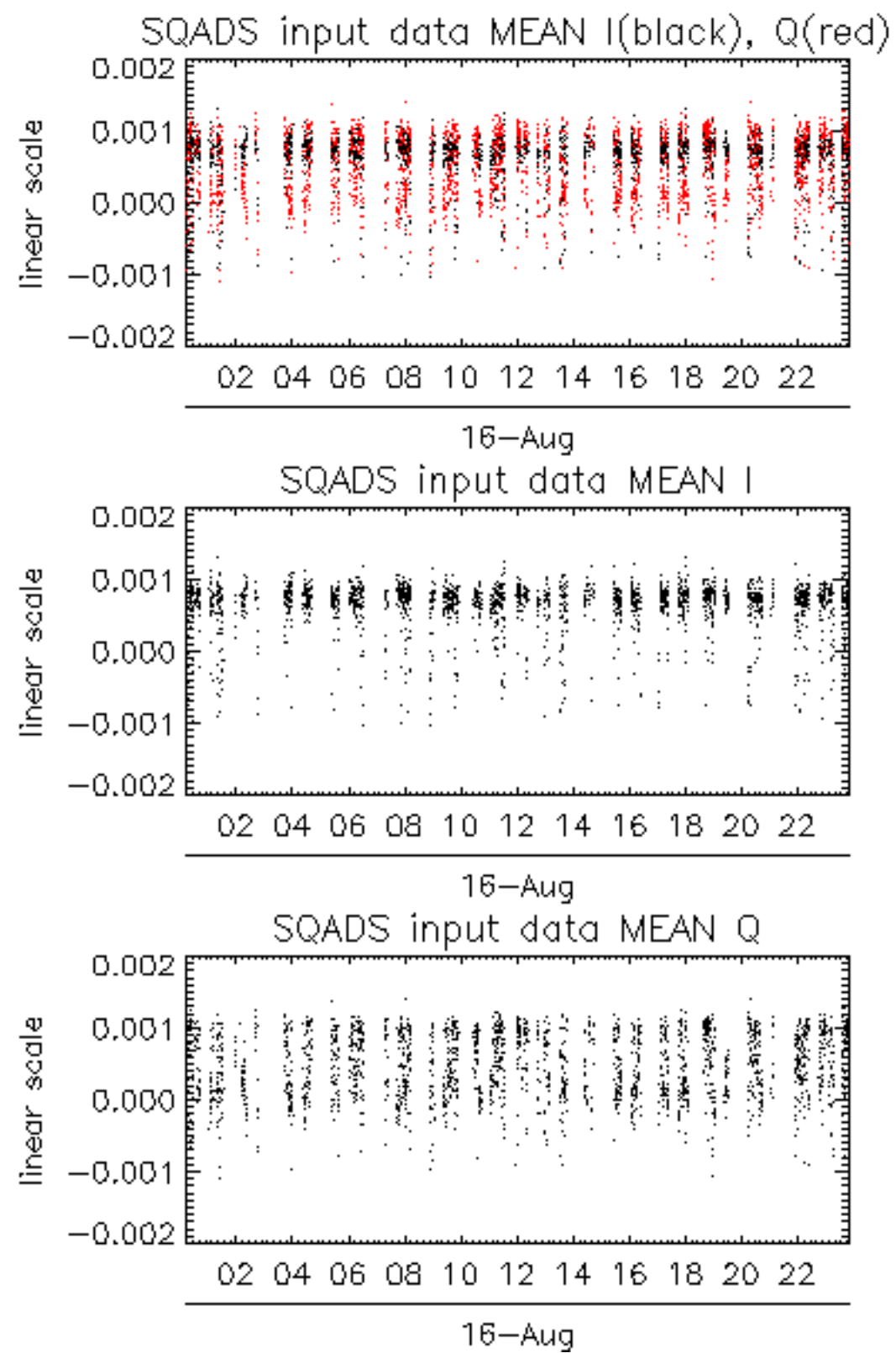
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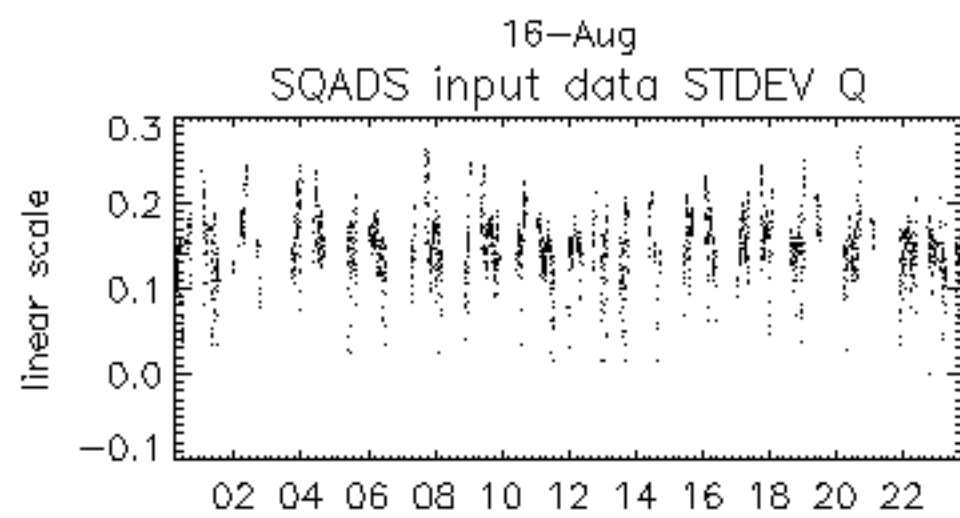
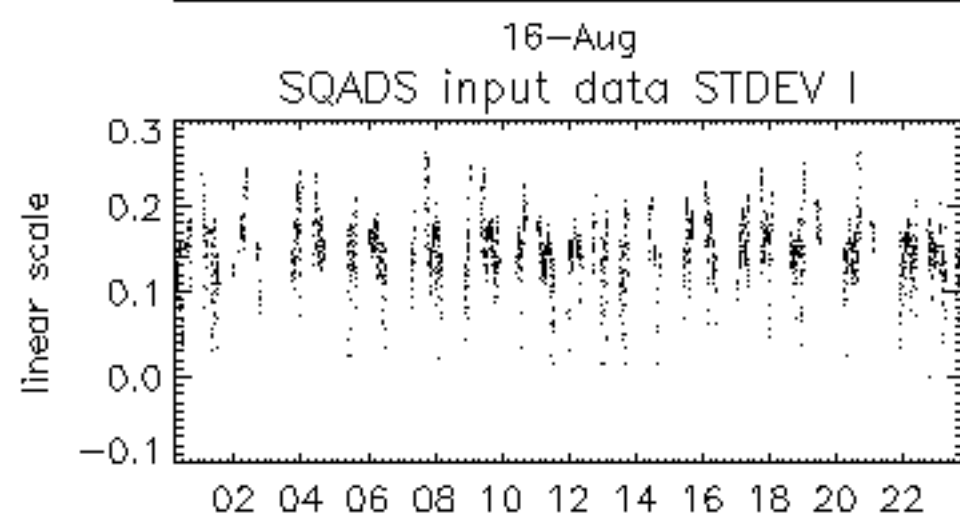
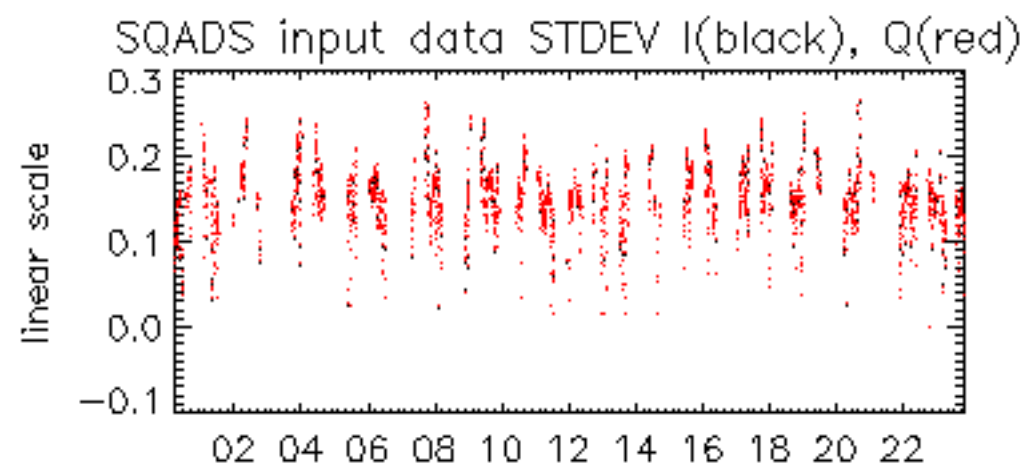


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