Analysis from 22-SEP-2011 00:00:00 to 22-SEP-2011 23:59:59. Page generated on 23-SEP-2011 13:37:51.
View log file: ASAR_Daily_Report_20110923_1336.log. For any anomalies please contact emma.hatton@vegaspace.com, kajal.haria@vegaspace.com.

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

SUMMARY

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1 - DATA SUMMARY

1.1 - Summary tables

[BACK TO MENU]

WVS			
Center	Beam	Pol	#
PDE	IS1	V/V	1
PDE	IS2	V/V	21
PDE	IS2	V/V	3
PDK	IS1	H/H	4
PDK	IS1	V/V	1
PDK	IS2	V/V	4

GM1			
Center	Beam	Pol	#
PDE	WS	H/H	10
PDK	WS	H/H	9

APM			
Center	Beam	Pol	#
PDE	IS4	H/H	1

IMM			
Center	Beam	Pol	#
PDE	IS6	H/H	2
PDK	IS1	V/V	1
PDK	IS6	H/H	2

WSM			
Center	Beam	Pol	#
PDE	WS	H/H	4
PDE	WS	V/V	1
PDK	WS	H/H	10
PDK	WS	V/V	5
PDK	WS	H/H	1

MS			
Center	Time	Pol	Modules
PDE	2011-09-22 04:48:20	H	320
PDE	2011-09-22 23:10:54	H	320

1.2 - Lists of products used

[BACK TO MENU]

[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

[BACK TO MENU]

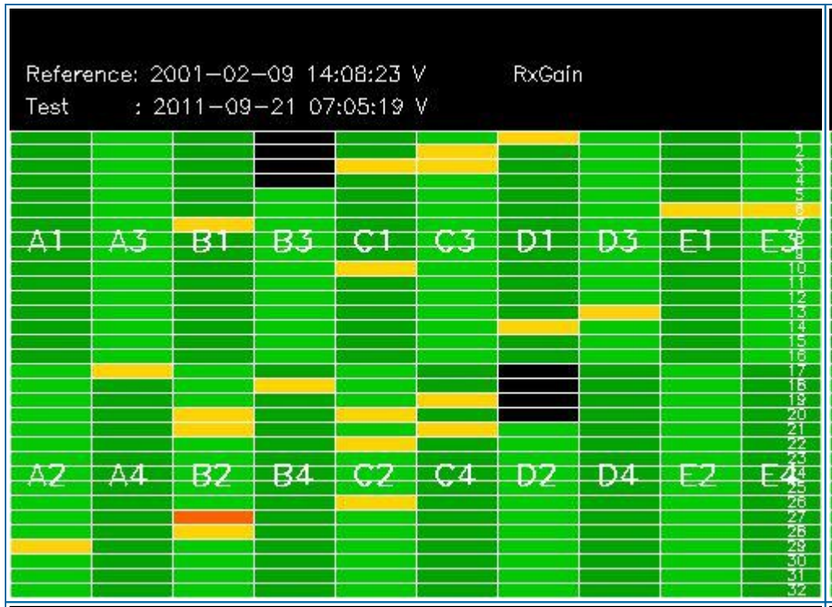
No IECF ADFs list available

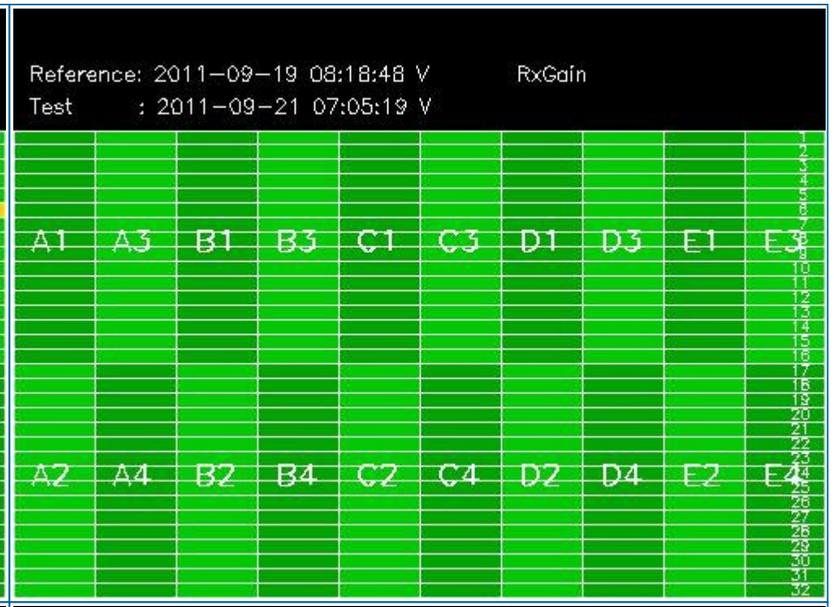
2.2 - Products with wrong ADFs

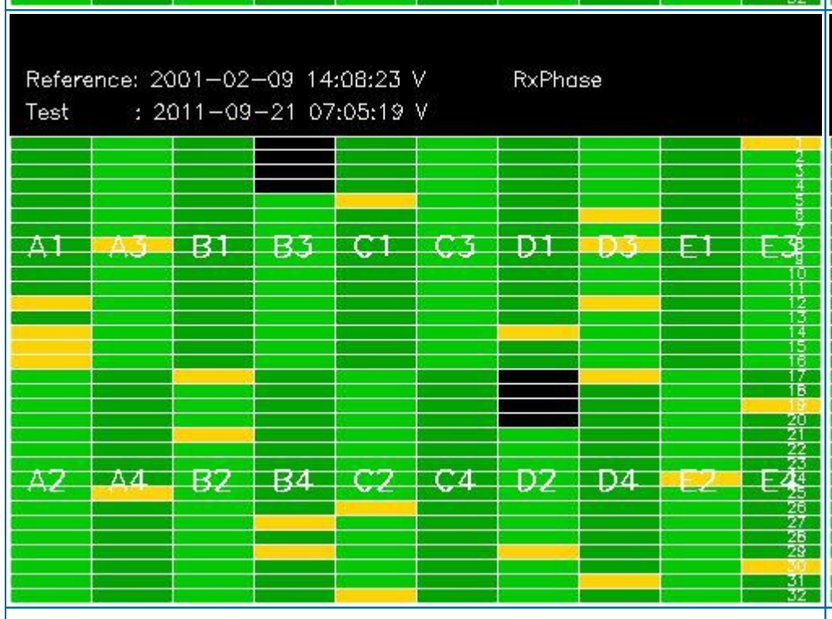
[BACK TO MENU]

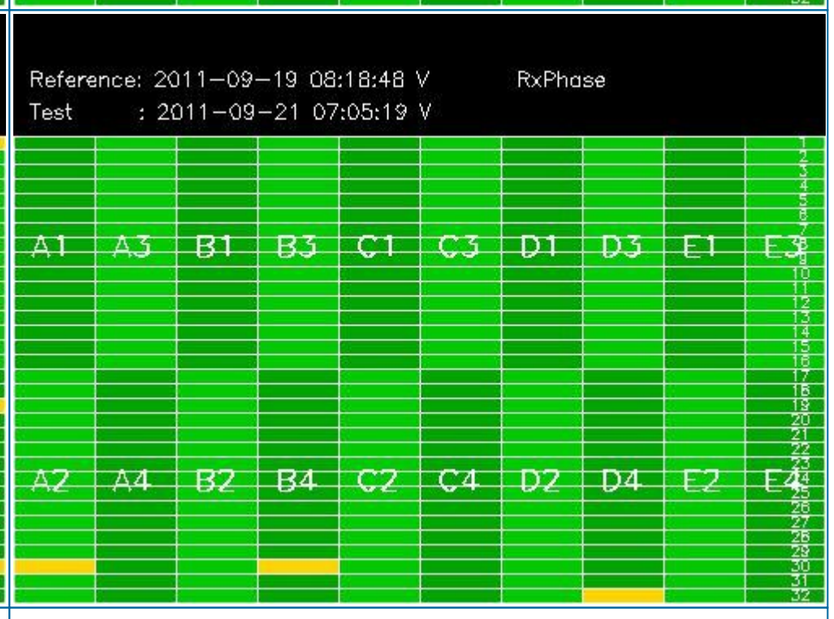
3 - MODULE STEPPING PRODUCTS ANALYSIS

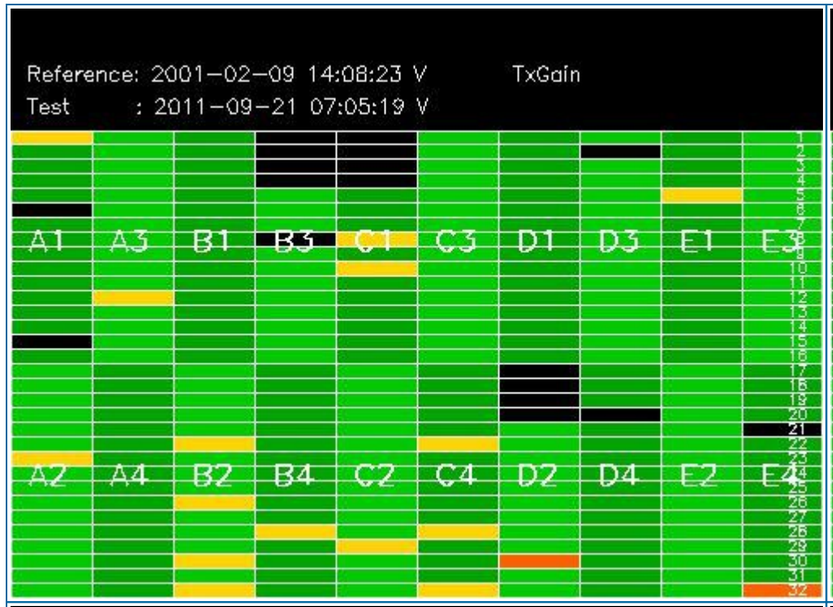
SECOND FIXED REFERENCE	PREVIOUS PRODUCT REFERENCE
Pre-launch reference (2001-02-09)	Previous product in the same polarisation

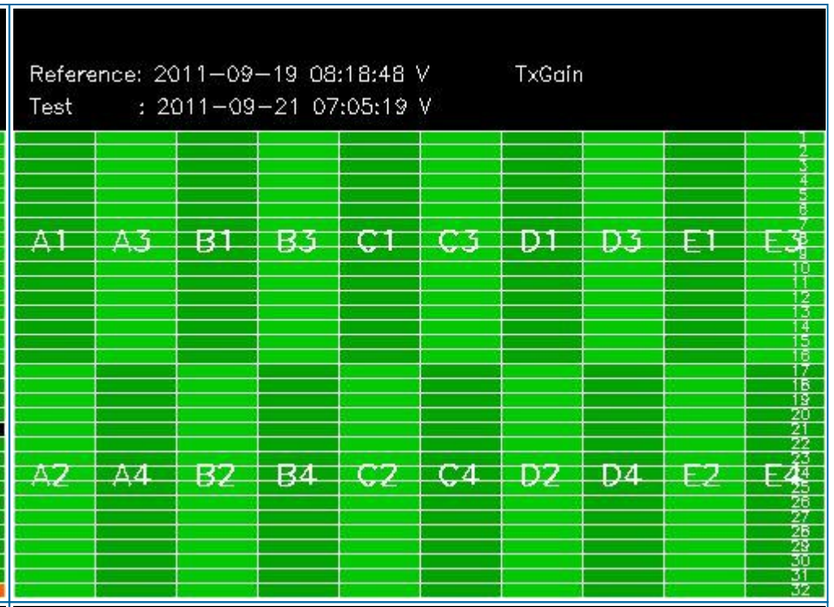

Reference: 2001-02-09 14:08:23 V
Test : 2011-09-21 07:05:19 V
RxGain
A1 A3 B1 B3 C1 C3 D1 D3 E1 E3
A2 A4 B2 B4 C2 C4 D2 D4 E2 E4

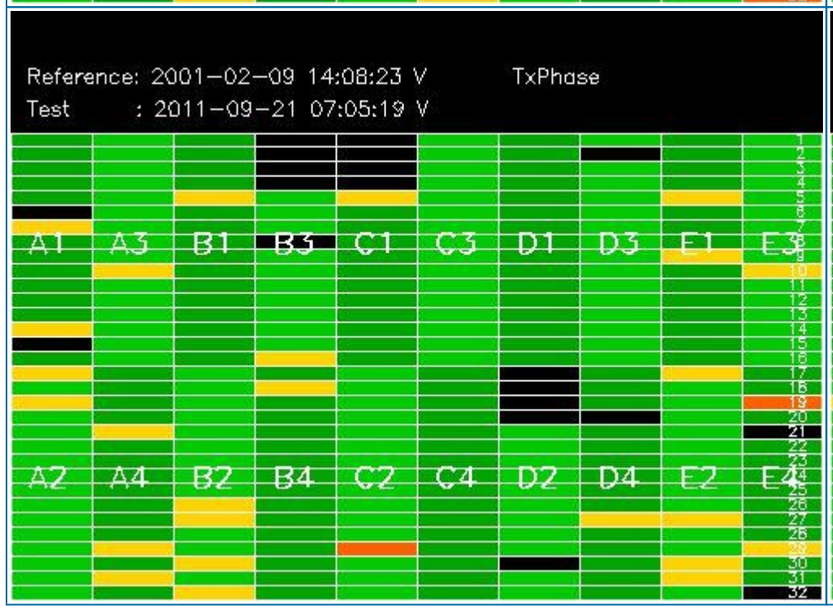

Reference: 2011-09-19 08:18:48 V
Test : 2011-09-21 07:05:19 V
RxGain
A1 A3 B1 B3 C1 C3 D1 D3 E1 E3
A2 A4 B2 B4 C2 C4 D2 D4 E2 E4

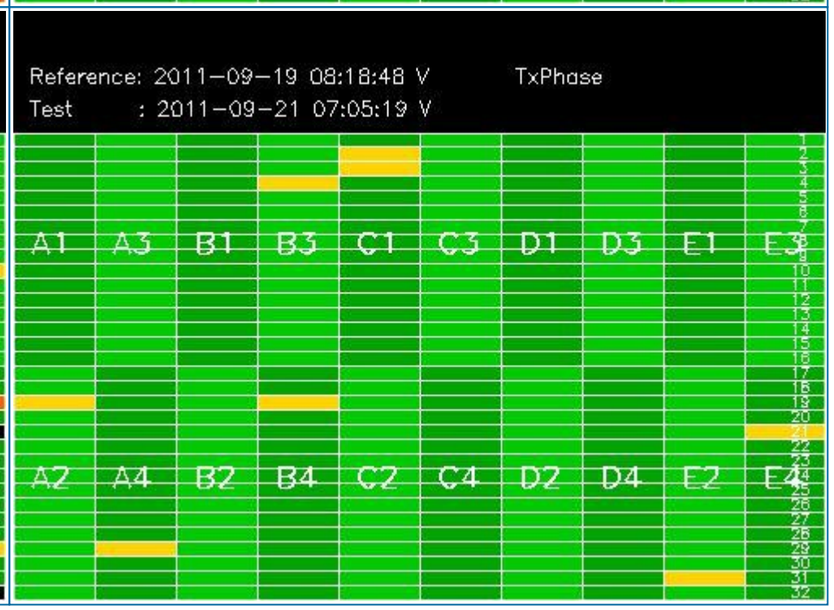

Reference: 2001-02-09 14:08:23 V
Test : 2011-09-21 07:05:19 V
RxPhase
A1 A3 B1 B3 C1 C3 D1 D3 E1 E3
A2 A4 B2 B4 C2 C4 D2 D4 E2 E4


Reference: 2011-09-19 08:18:48 V
Test : 2011-09-21 07:05:19 V
RxPhase
A1 A3 B1 B3 C1 C3 D1 D3 E1 E3
A2 A4 B2 B4 C2 C4 D2 D4 E2 E4





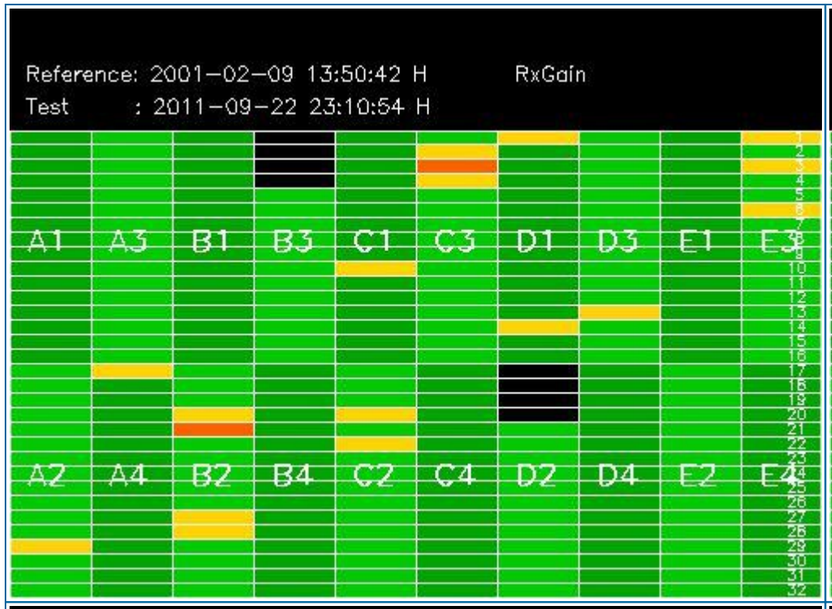


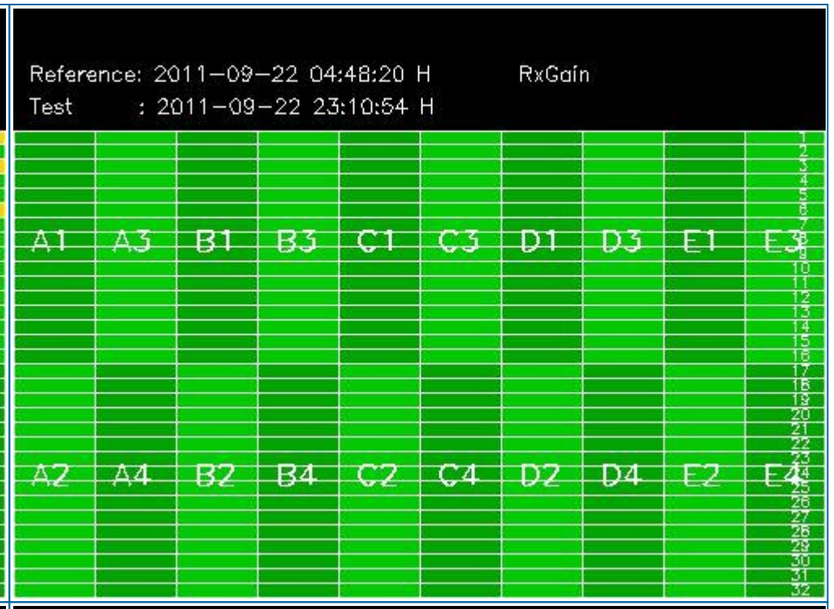


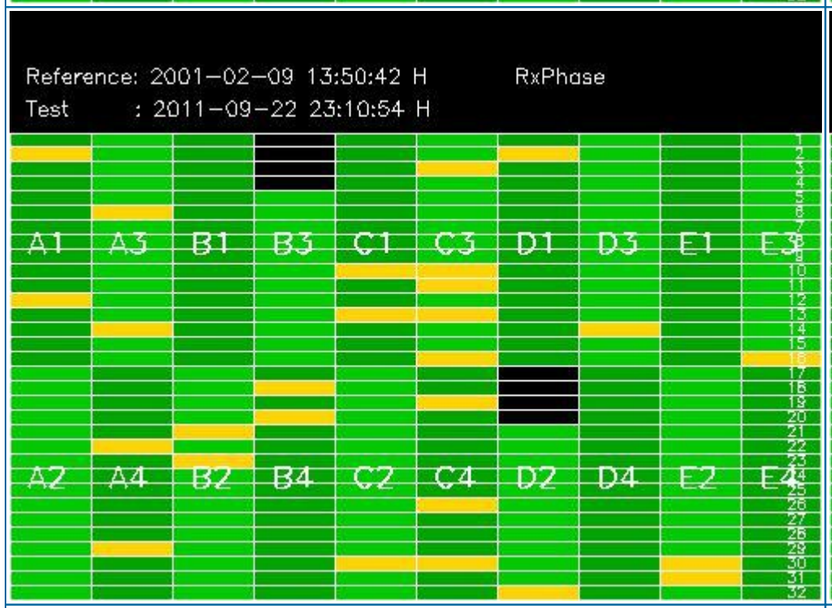
3.2 **- H/H polarisation**

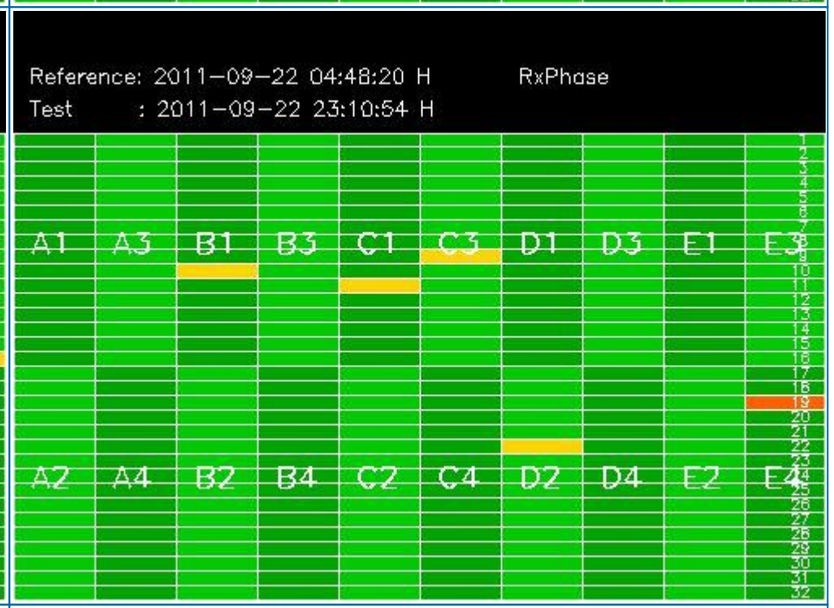
[BACK TO MENU]

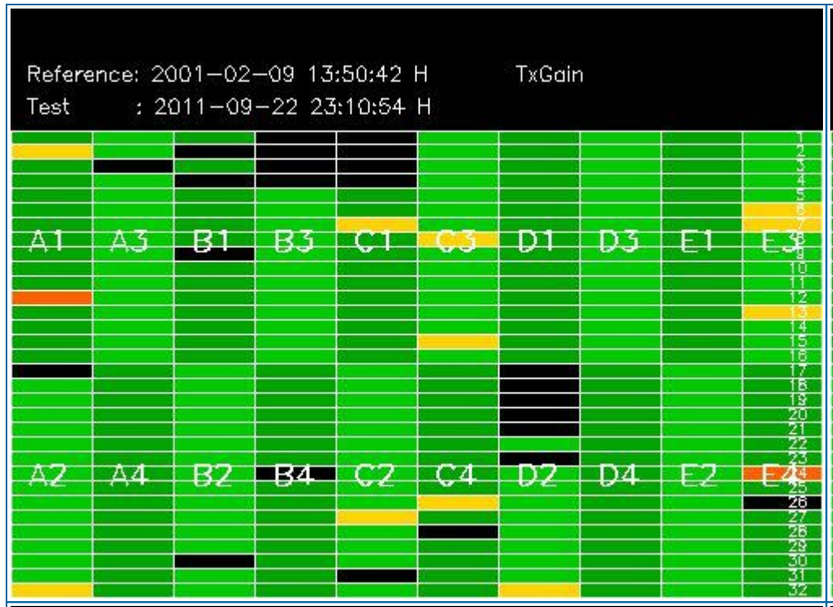
SECOND FIXED REFERENCE	PREVIOUS PRODUCT REFERENCE
Pre-launch reference (2001-02-09)	Previous product in the same polarisation

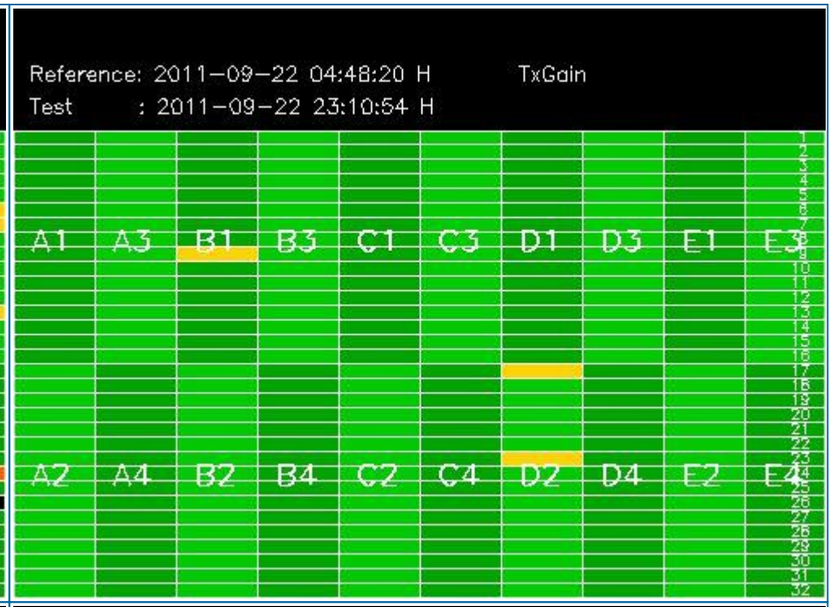

Reference: 2001-02-09 13:50:42 H
Test : 2011-09-22 23:10:54 H
RxGain
A1 A3 B1 B3 C1 C3 D1 D3 E1 E3
A2 A4 B2 B4 C2 C4 D2 D4 E2 E4

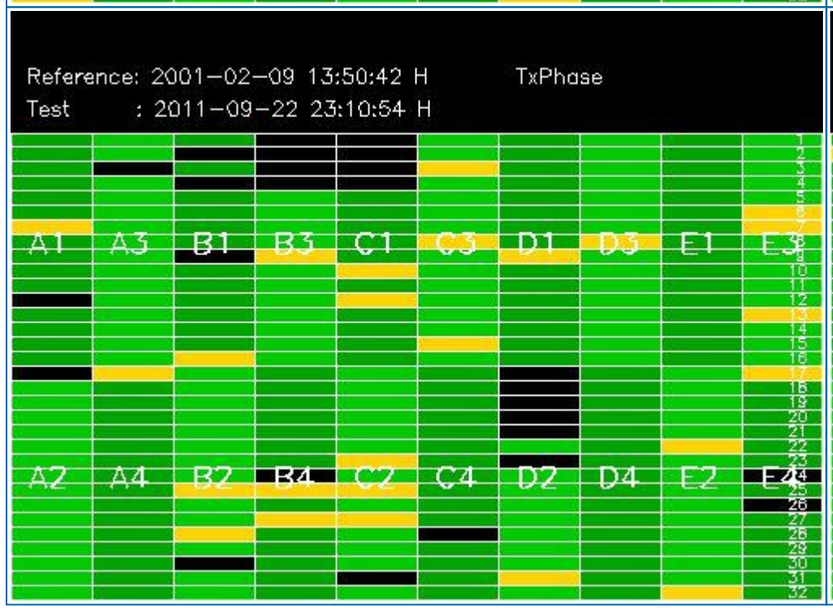

Reference: 2011-09-22 04:48:20 H
Test : 2011-09-22 23:10:54 H
RxGain
A1 A3 B1 B3 C1 C3 D1 D3 E1 E3
A2 A4 B2 B4 C2 C4 D2 D4 E2 E4

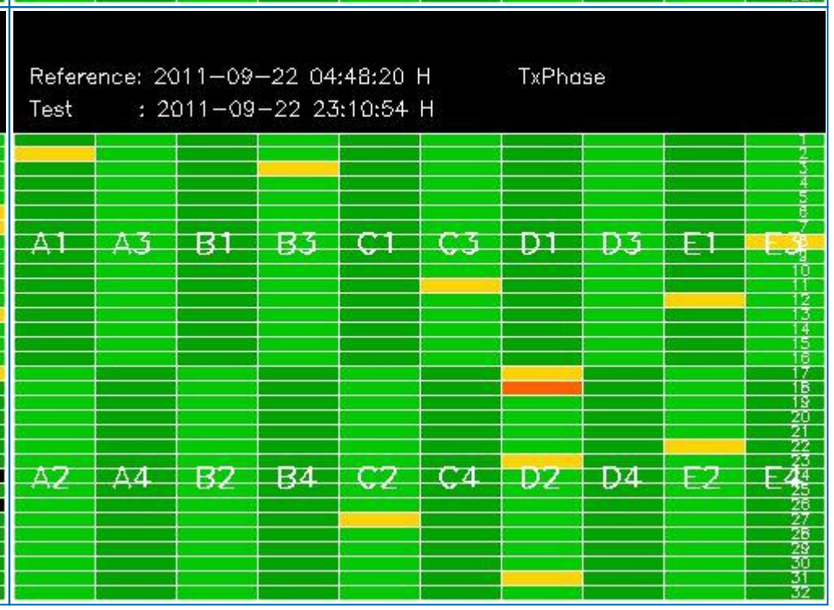

Reference: 2001-02-09 13:50:42 H
Test : 2011-09-22 23:10:54 H
RxPhase
A1 A3 B1 B3 C1 C3 D1 D3 E1 E3
A2 A4 B2 B4 C2 C4 D2 D4 E2 E4


Reference: 2011-09-22 04:48:20 H
Test : 2011-09-22 23:10:54 H
RxPhase
A1 A3 B1 B3 C1 C3 D1 D3 E1 E3
A2 A4 B2 B4 C2 C4 D2 D4 E2 E4









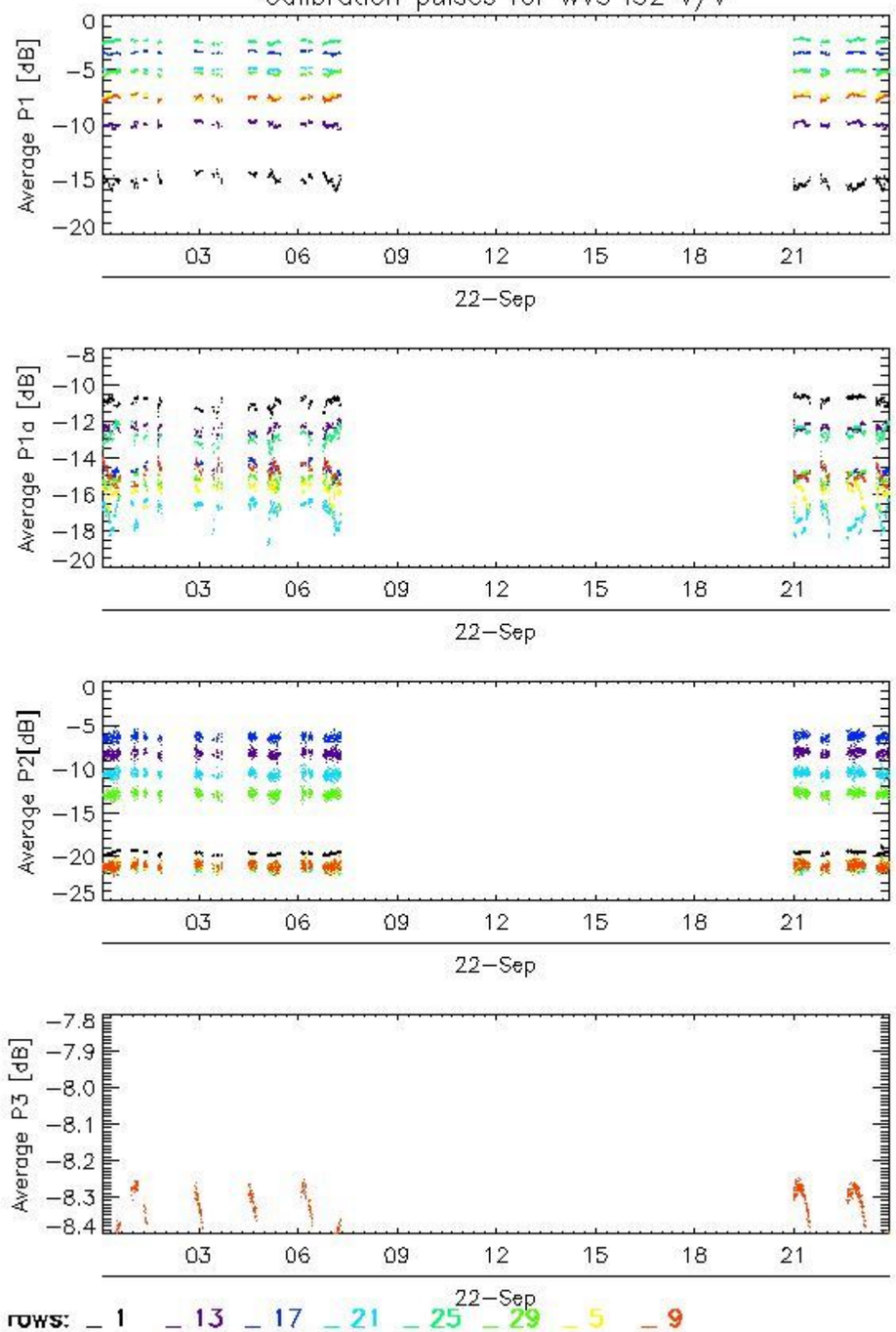
4 - CALIBRATION PULSES ANALYSIS

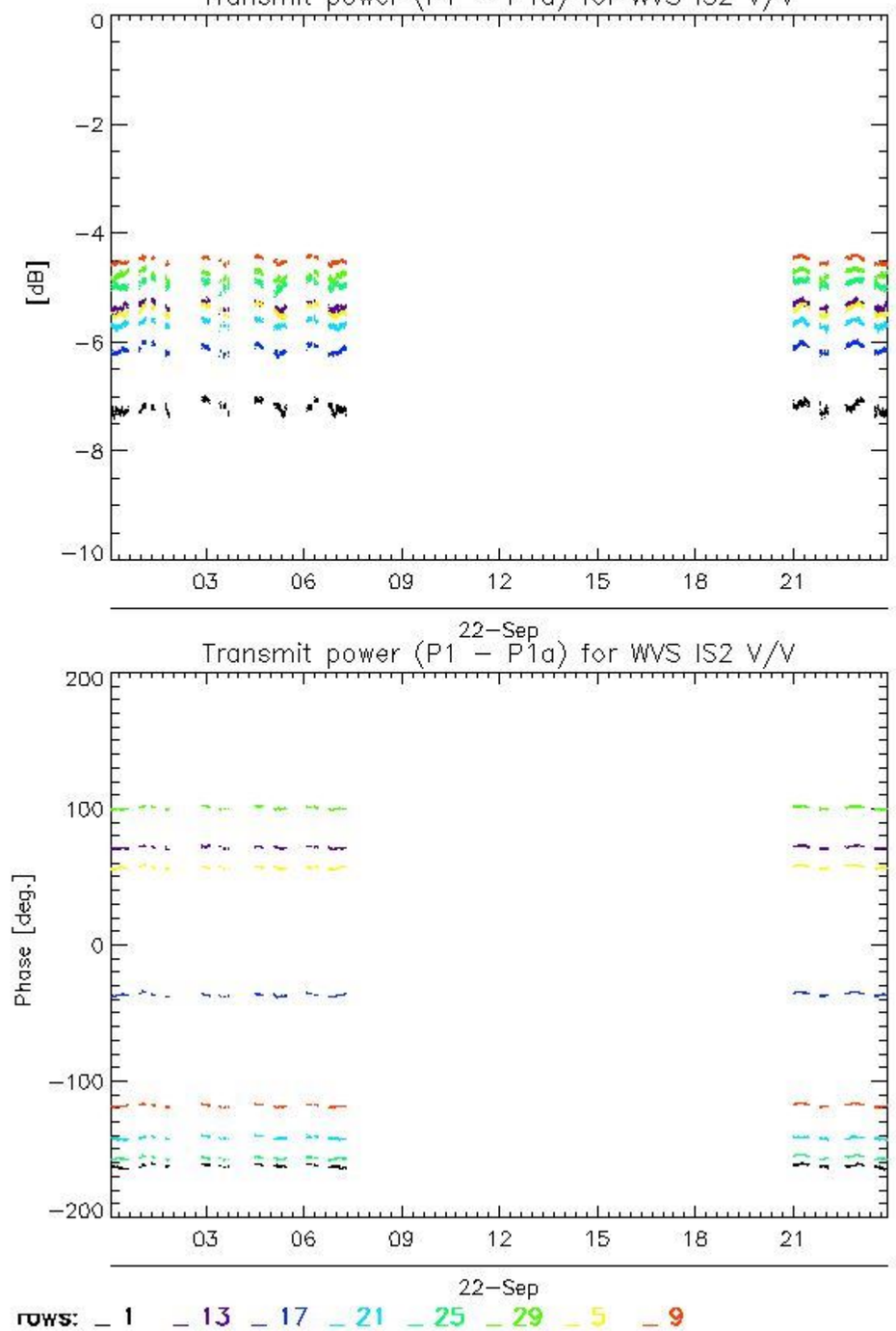
4.1 - Analysis for WVS IS2 V/V

4.1.1 - Temporal Evolution Analysis for WVS IS2 V/V

[BACK TO MENU]

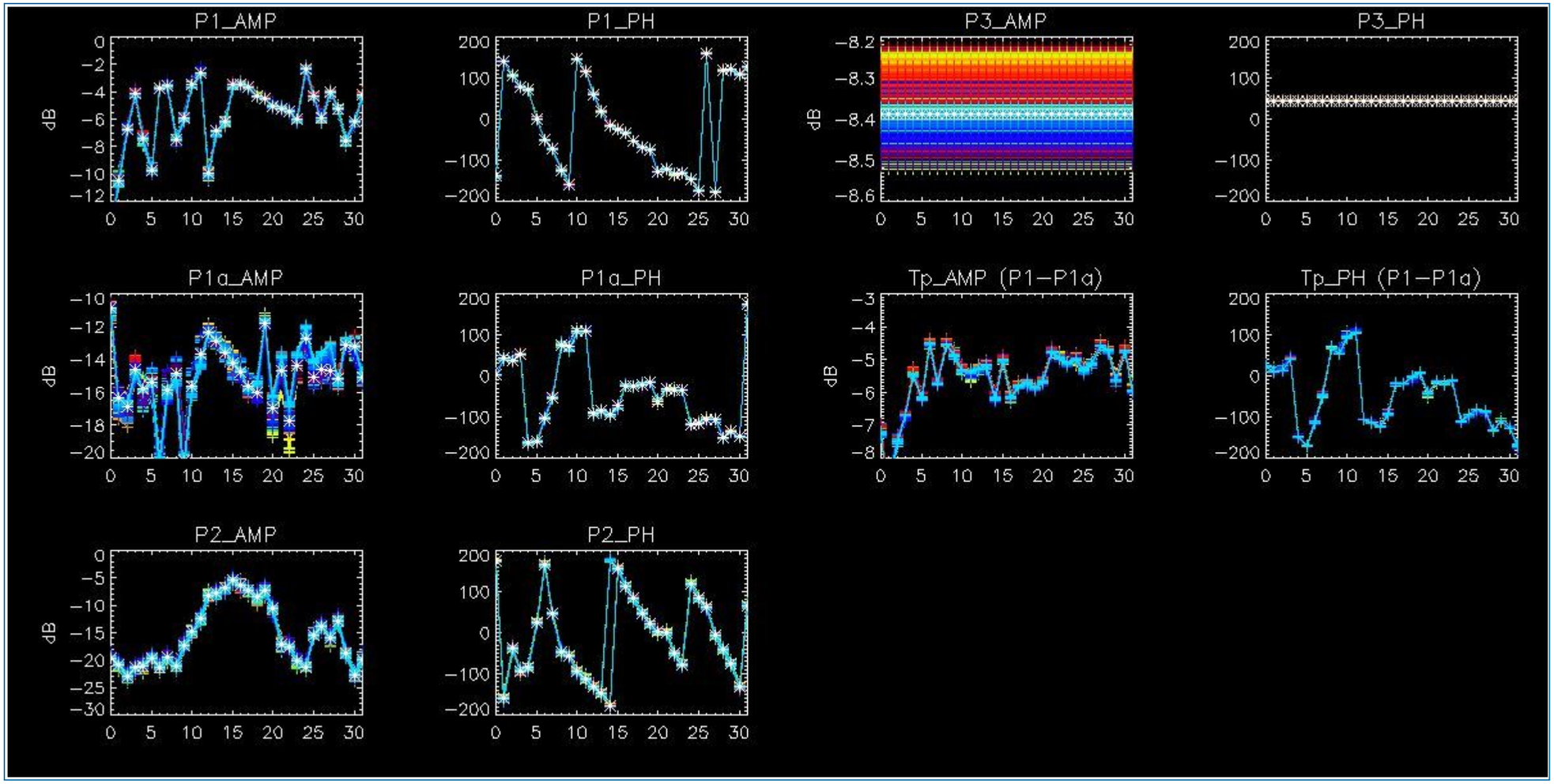
Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]	Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]





4.1.2 - **All Rows Analysis for WVS IS2 V/V**

[BACK TO MENU]

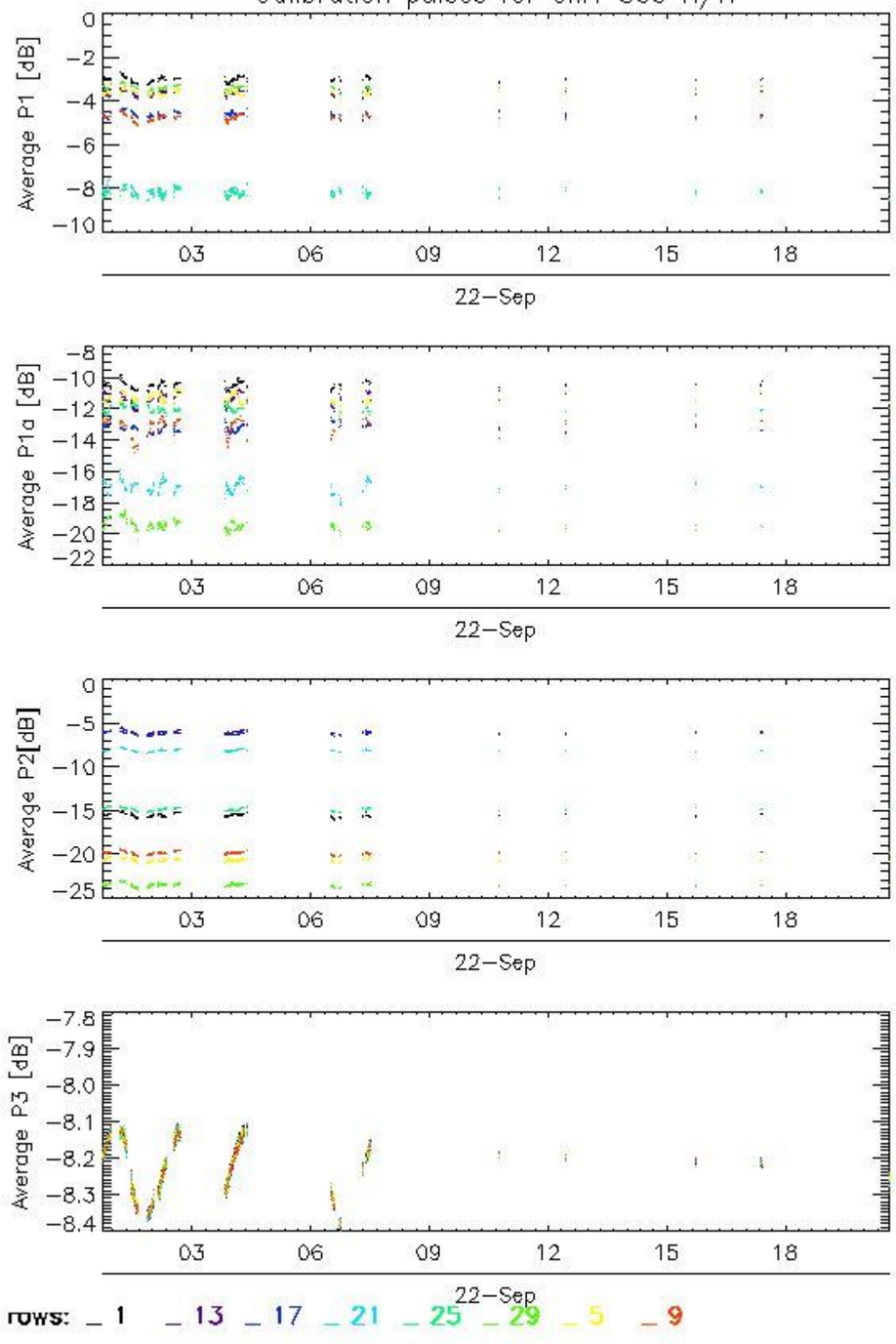


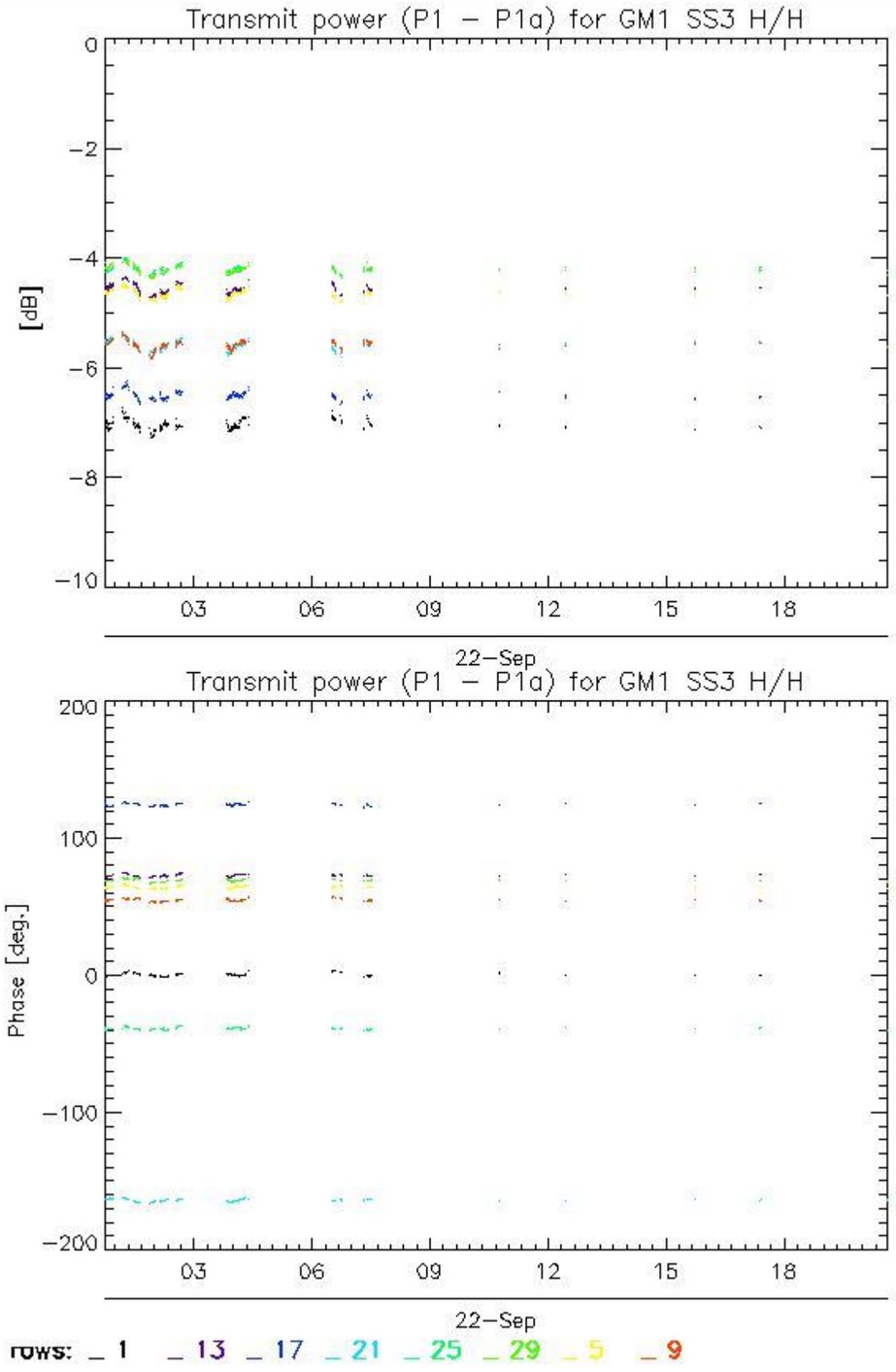
4.2 - Analysis for GM1 SS3 H/H

4.2.1 - Temporal Evolution Analysis for GM1 SS3 H/H

[BACK TO MENU]

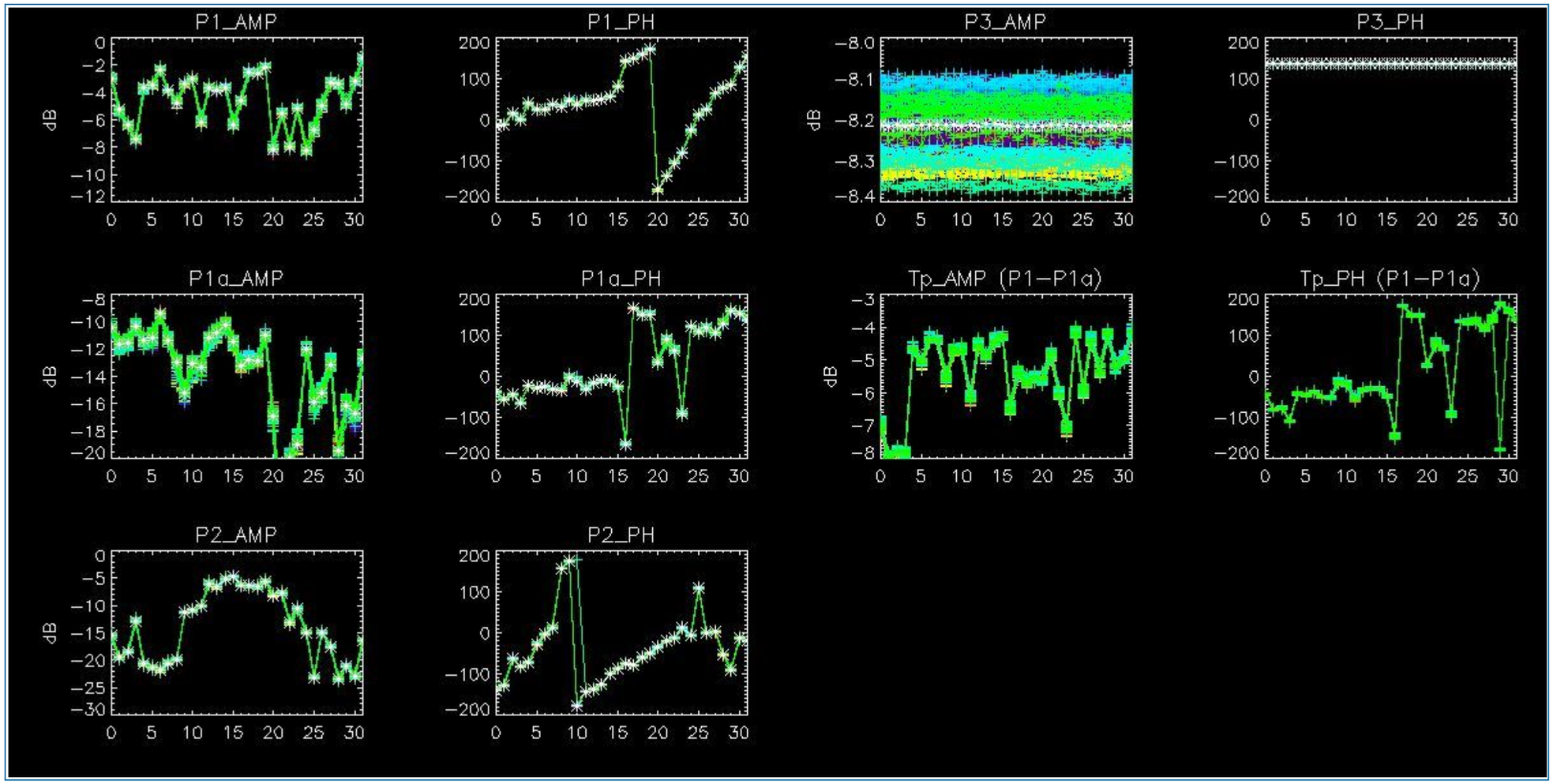
Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]	Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]





4.2.2 - **All Rows Analysis for GM1 SS3 H/H**

[BACK TO MENU]

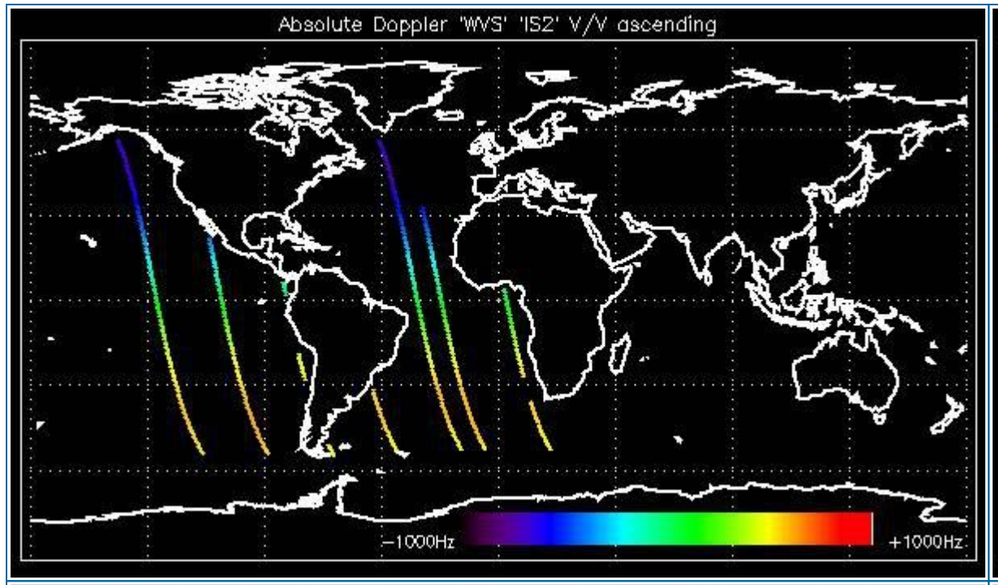


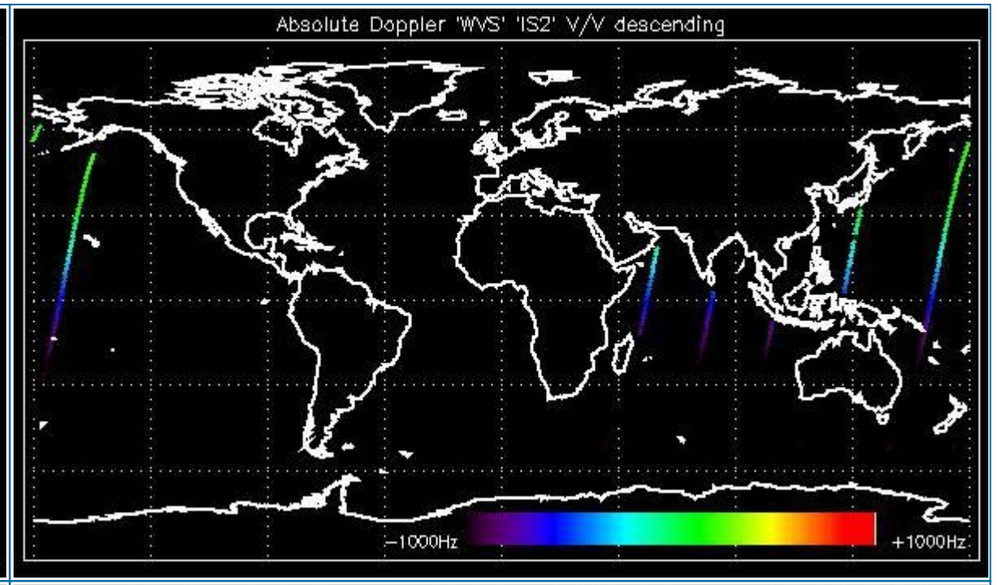
5 - DOPPLER ANALYSIS

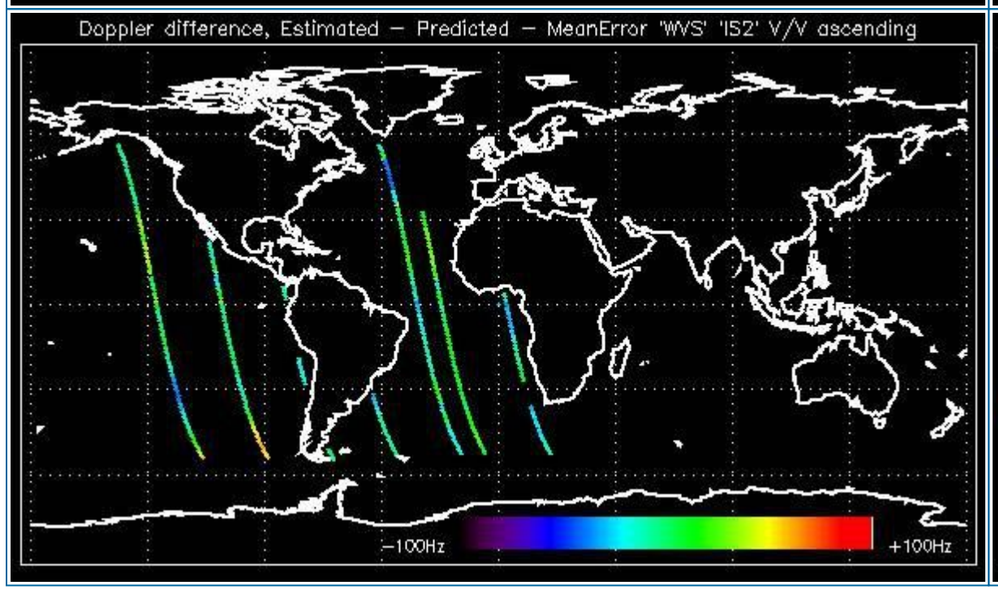
5.1 - Analysis for WVS IS2 V/V

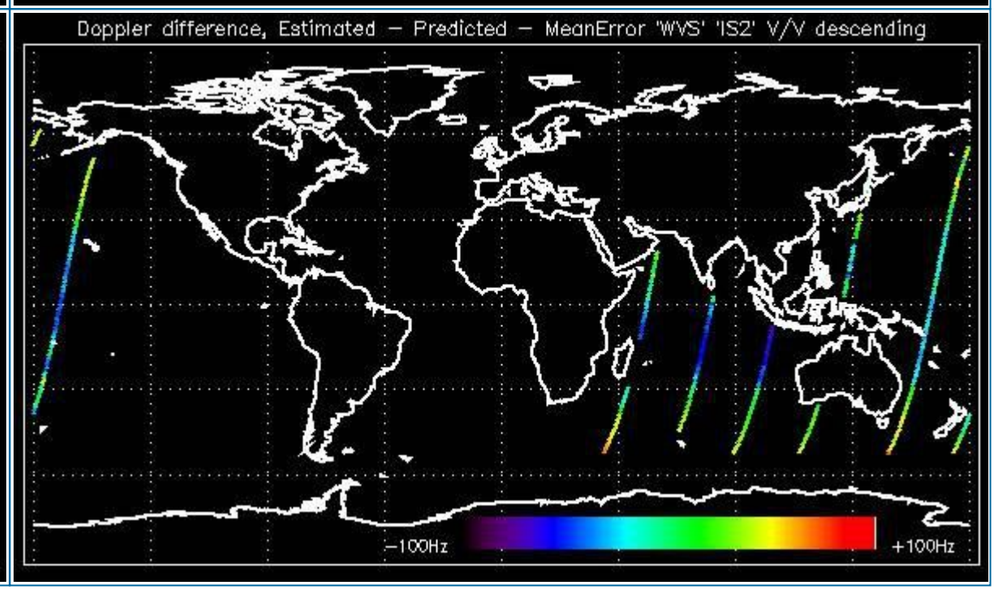
5.1.1 - Doppler MAP Analysis for WVS IS2 V/V

[BACK TO MENU]



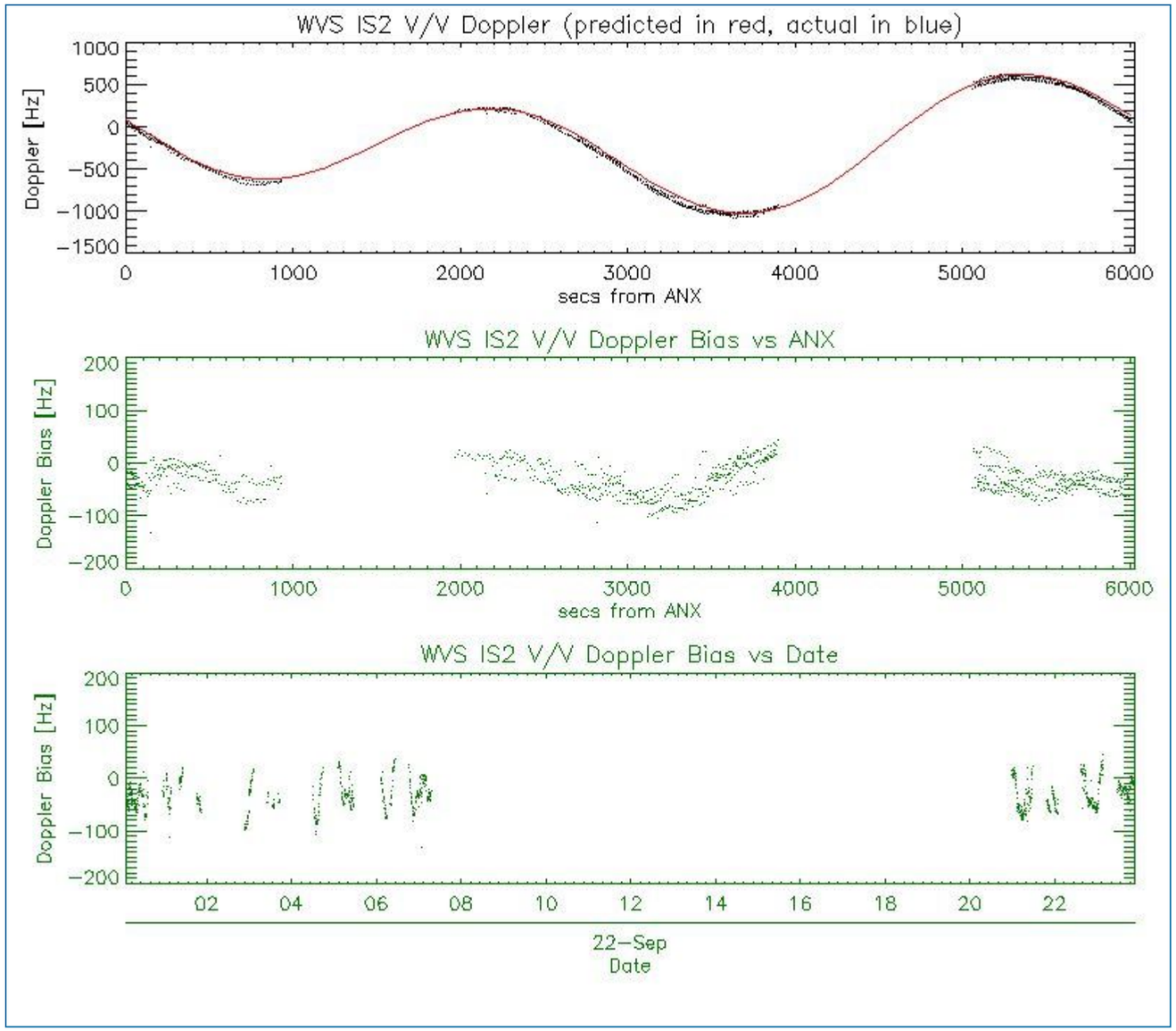






5.1.2 - Doppler ANX Analysis for WVS IS2 V/V

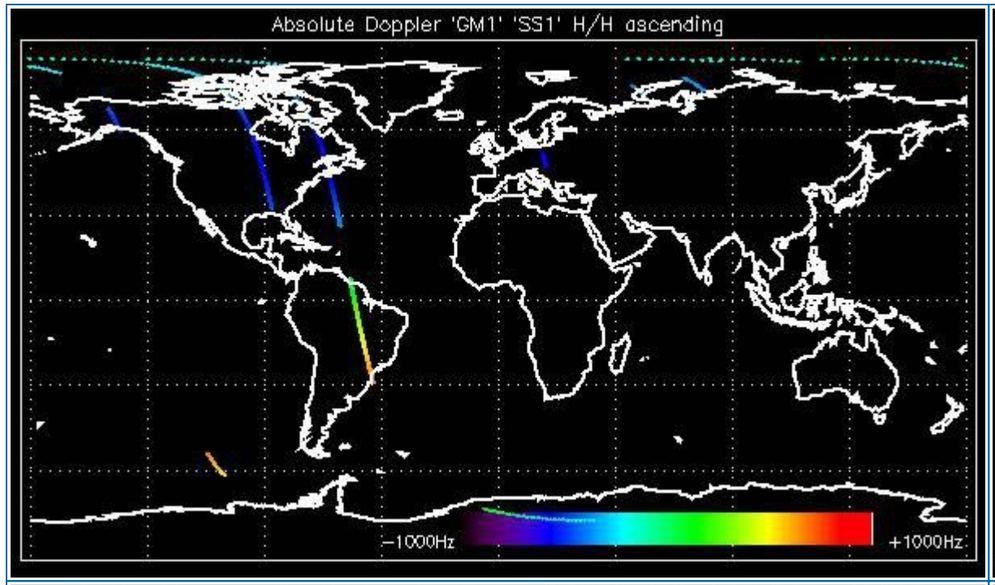
[BACK TO MENU]

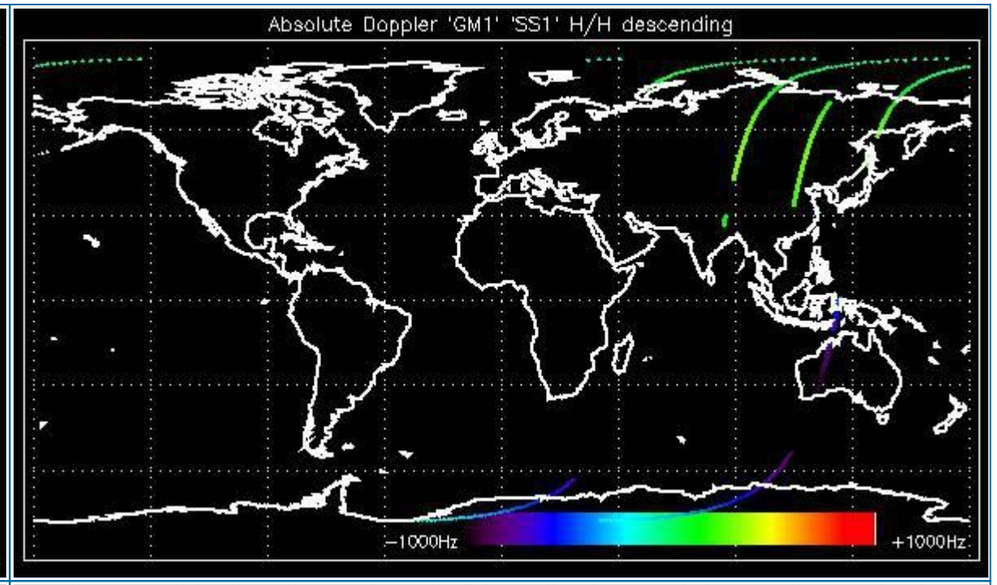


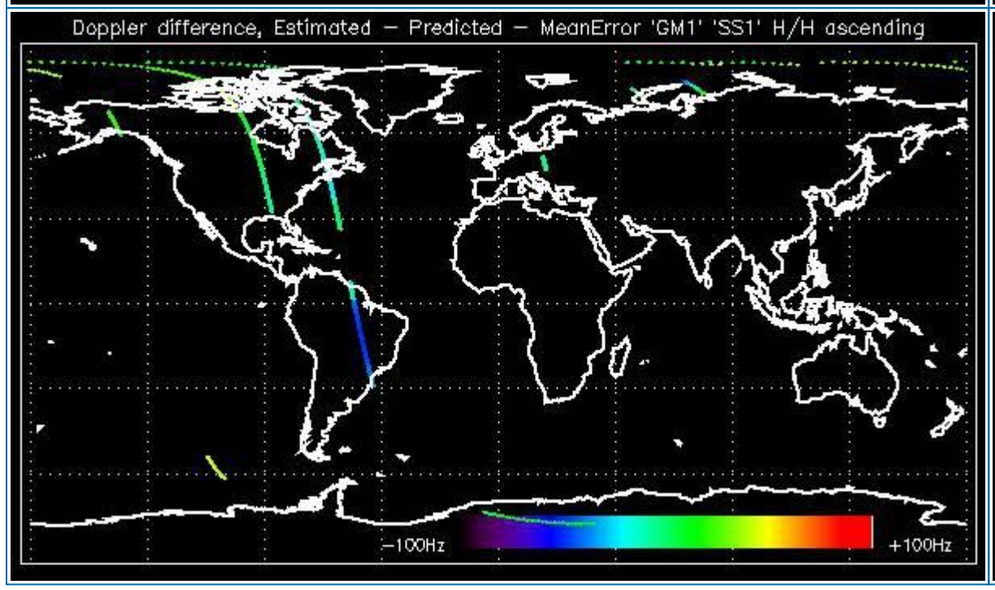
5.2 - Analysis for GM1 SS1 H/H

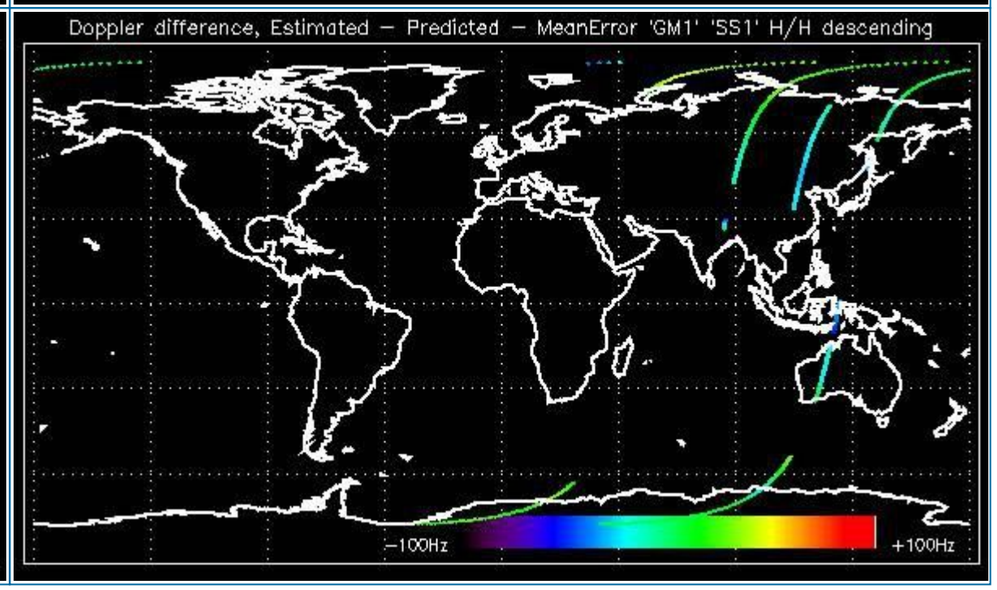
5.2.1 - Doppler MAP Analysis for GM1 SS1 H/H

[BACK TO MENU]



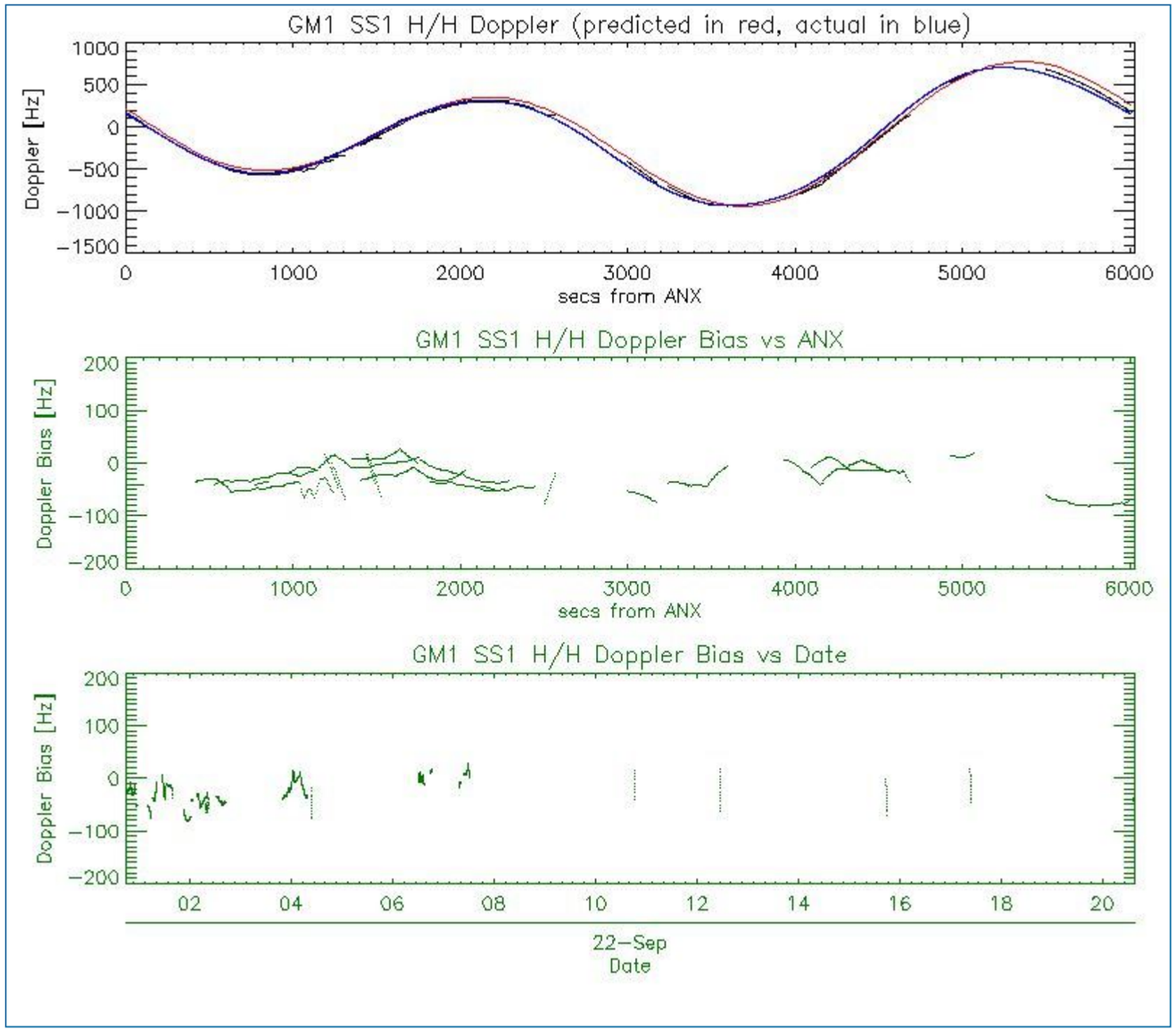






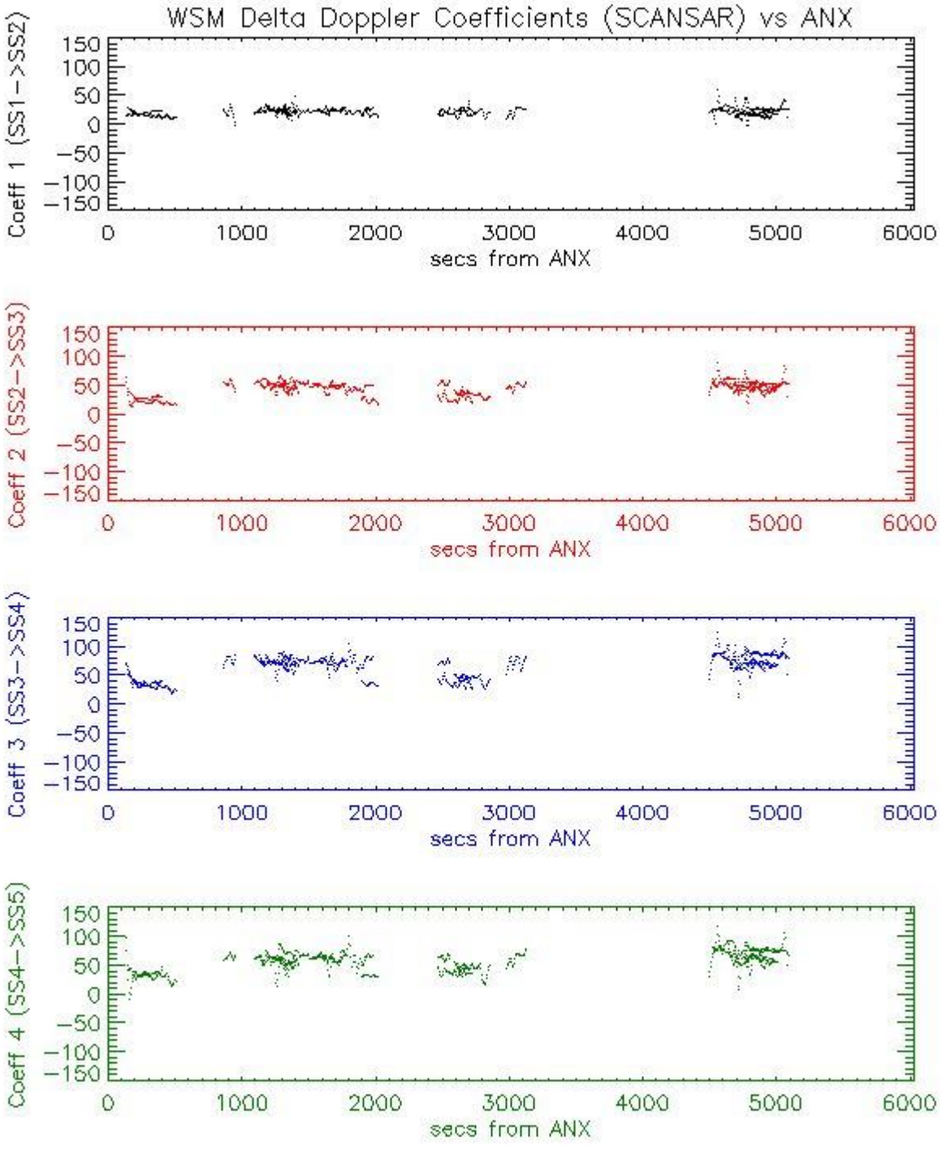
5.2.2 - Doppler ANX Analysis for GM1 SS1 H/H

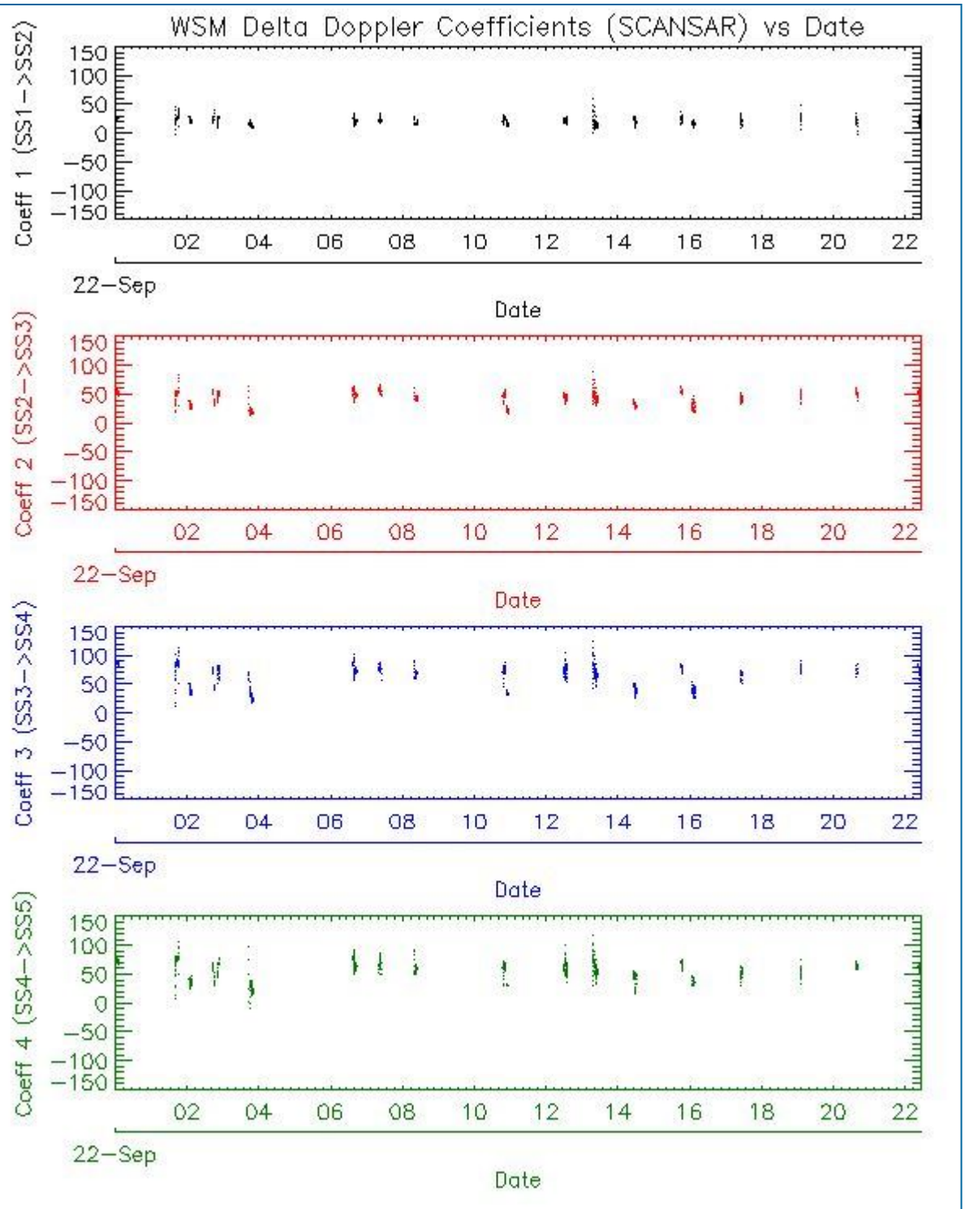
[BACK TO MENU]



5.3 - **Doppler JUMPS Analysis for WSM**

[BACK TO MENU]



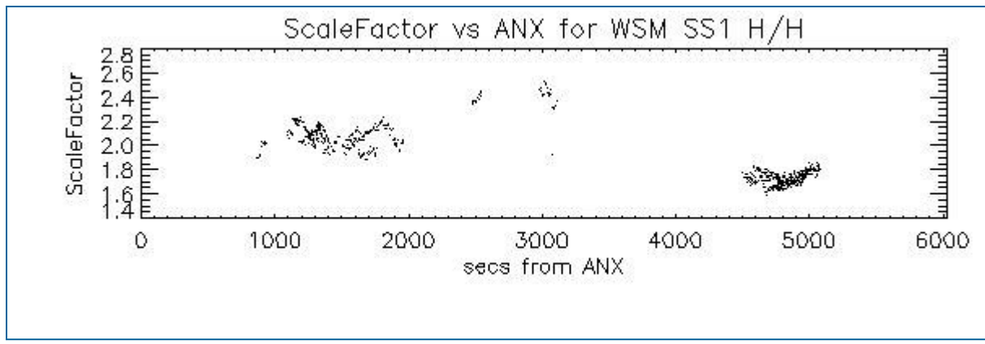


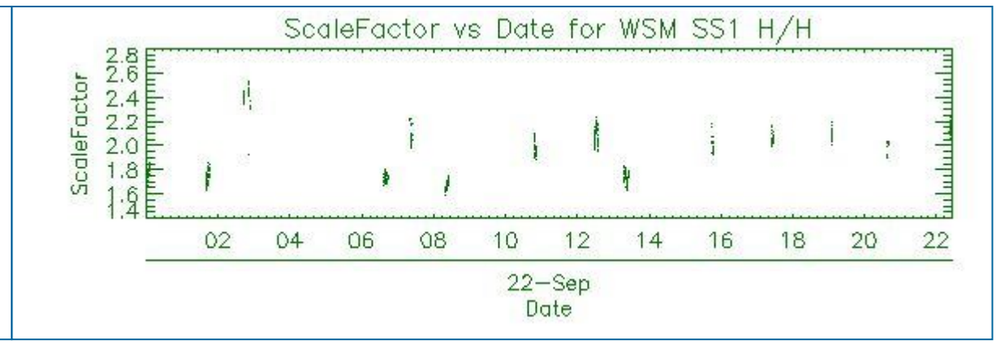
6 - CHIRP ANALYSIS

6.1 - Analysis for WSM SS1 H/H

6.1.1 - ScaleFactor

[BACK TO MENU]

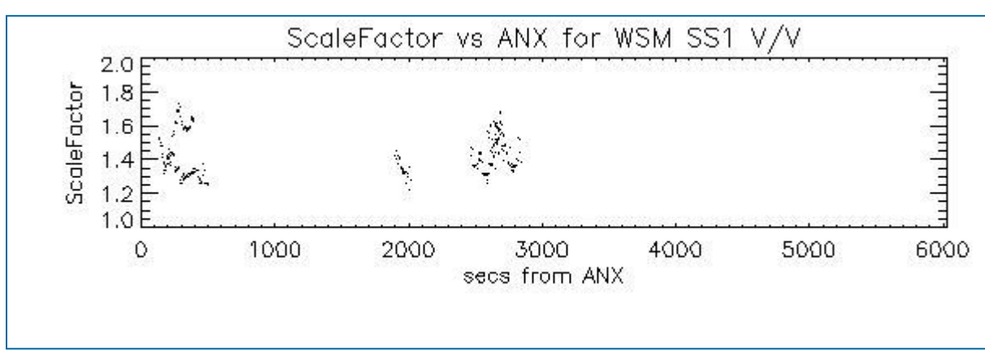


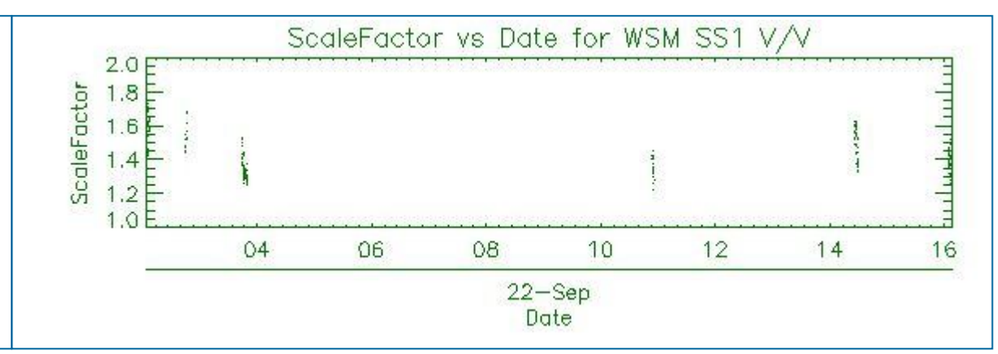


6.2 - Analysis for WSM SS1 V/V

6.2.1 - ScaleFactor

[BACK TO MENU]

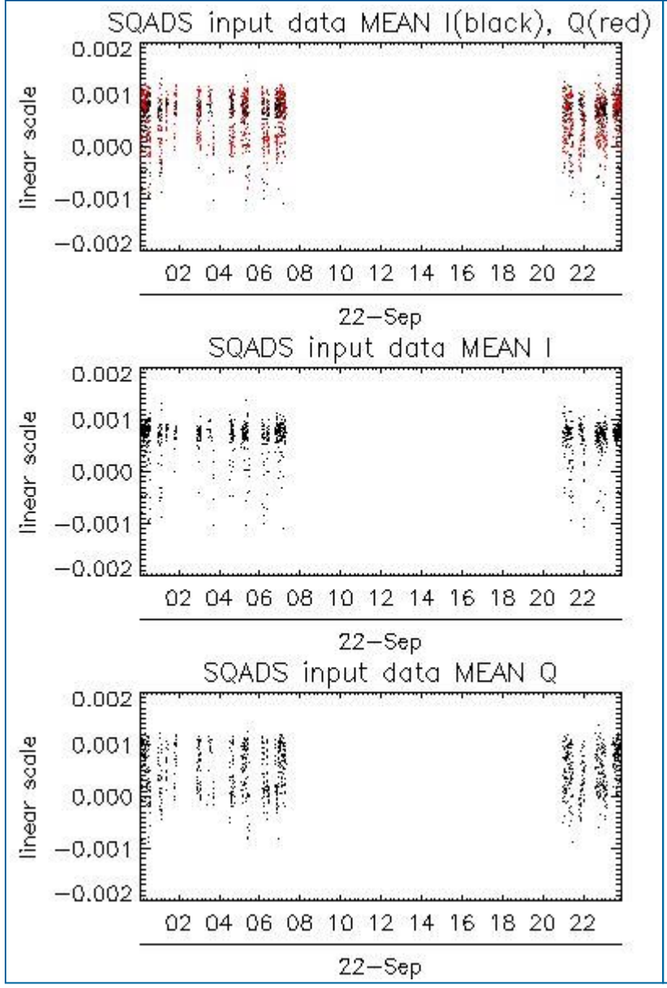


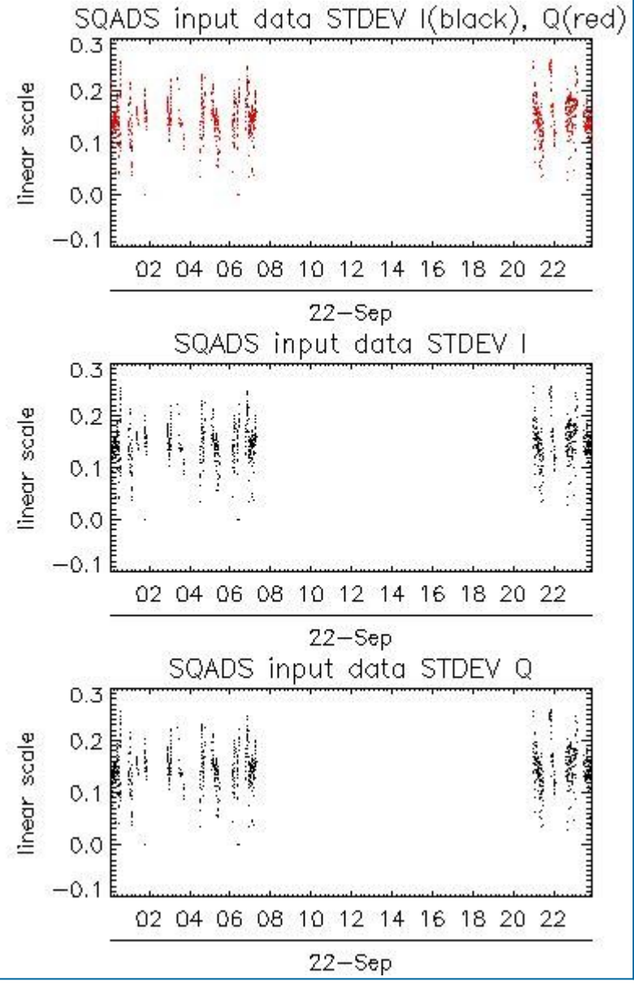


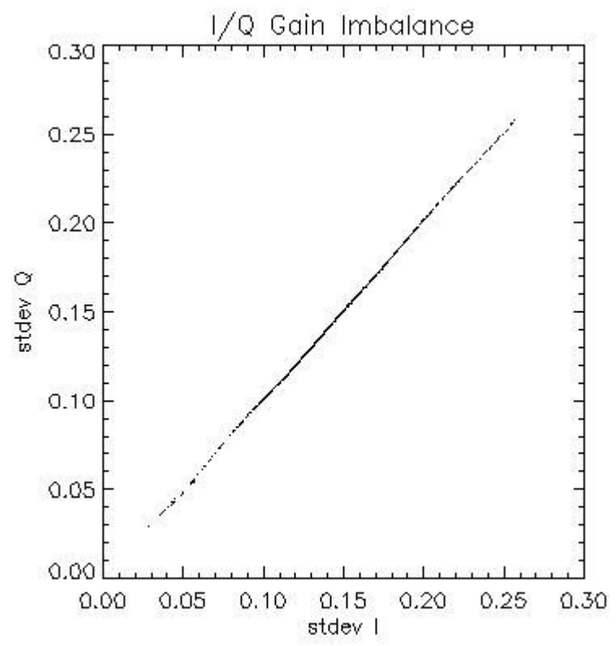
7 - RAW DATA ANALYSIS

7.1 - Analysis for WVS

[BACK TO MENU]



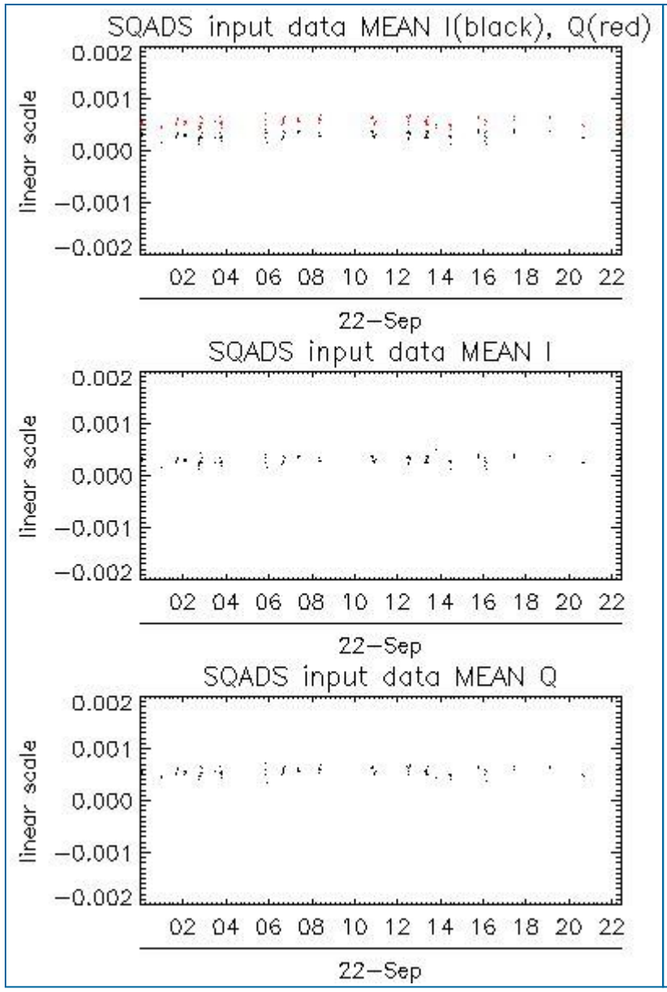


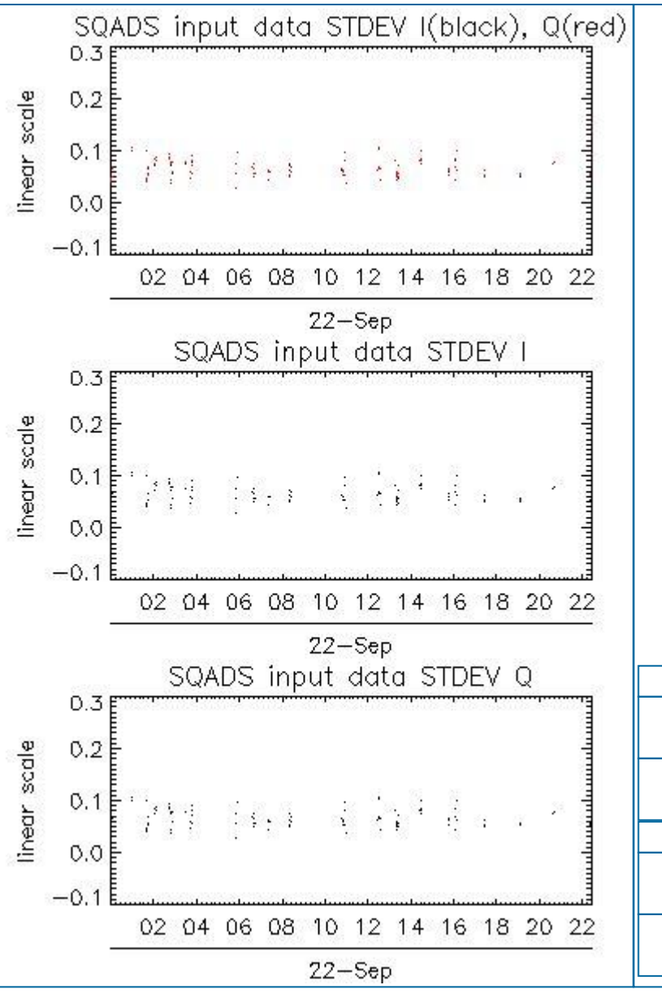


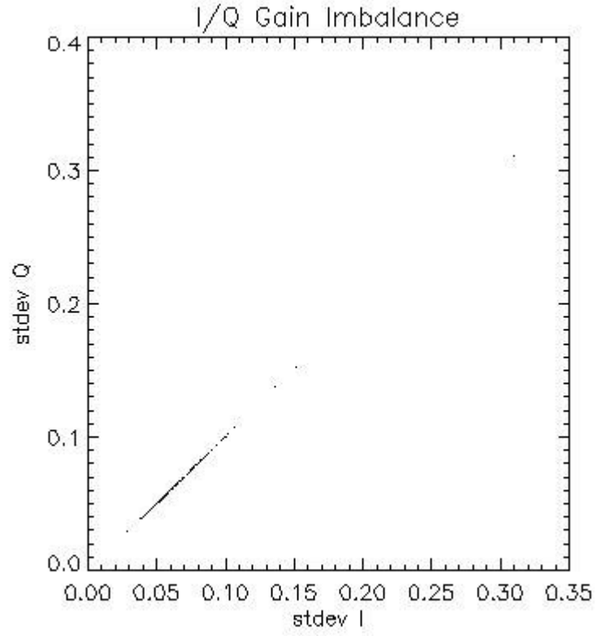
Channel	Statistics	DSS-B
MEAN I	mean	0.000623935
	stdev	1.35830e-07
MEAN Q	mean	0.000496357
	stdev	2.00238e-07
Channel	Statistics	DSS-B
STDEV I	mean	0.147771
	stdev	0.00153910
STDEV Q	mean	0.148305
	stdev	0.00157023

7.2 - Analysis for IMM

[BACK TO MENU]







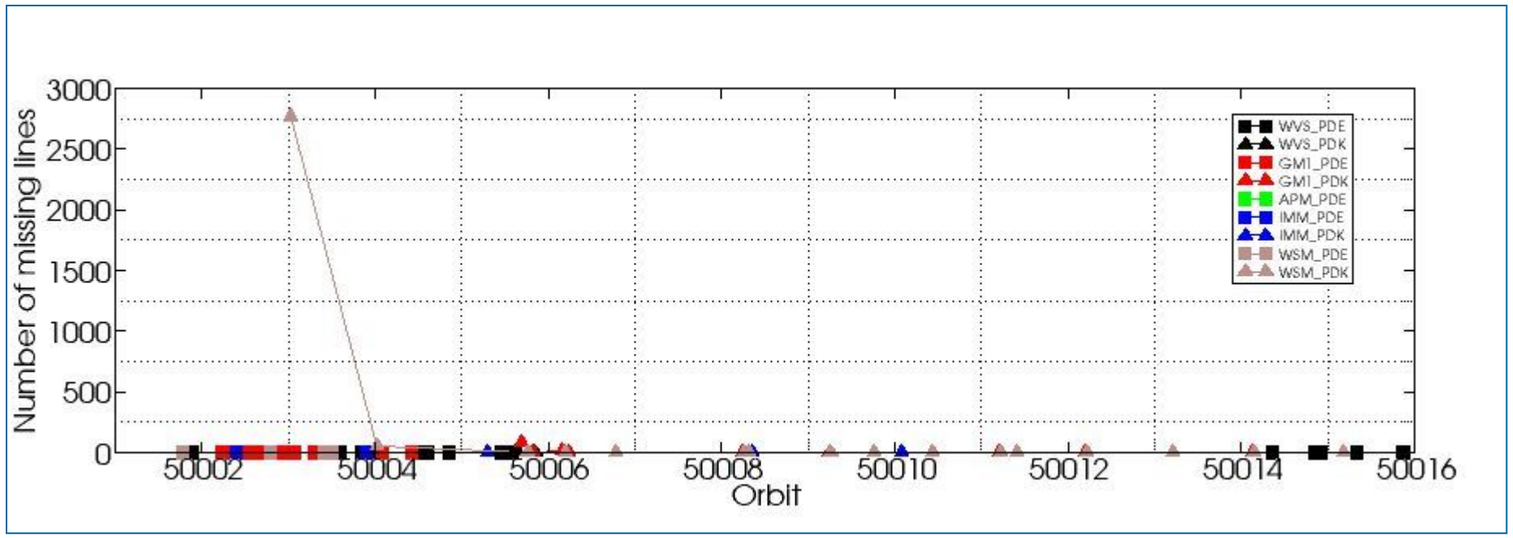
Channel	Statistics	DSS-B
MEAN I	mean	0.000292823
	stdev	4.98872e-09
MEAN Q	mean	0.000557177
	stdev	5.42918e-09
Channel	Statistics	DSS-B
STDEV I	mean	0.0695153
	stdev	0.000919979
STDEV Q	mean	0.0698097
	stdev	0.000925916

8 - TELEMETRY ANALYSIS

Processing Center	Product	Gaps	Missing lines
PDK	ASA_GM1_1PNPDK20110922_062952_000004283106_00422_50005_3226.N1	0	87
PDK	ASA_GM1_1PNPDK20110922_071808_000001503106_00423_50006_3229.N1	0	15
PDK	ASA_WSM_1PNPDK20110922_020327_000002693106_00420_50003_3092.N1	10	2770
PDK	ASA_WSM_1PNPDK20110922_034329_000003923106_00421_50004_3116.N1	0	58

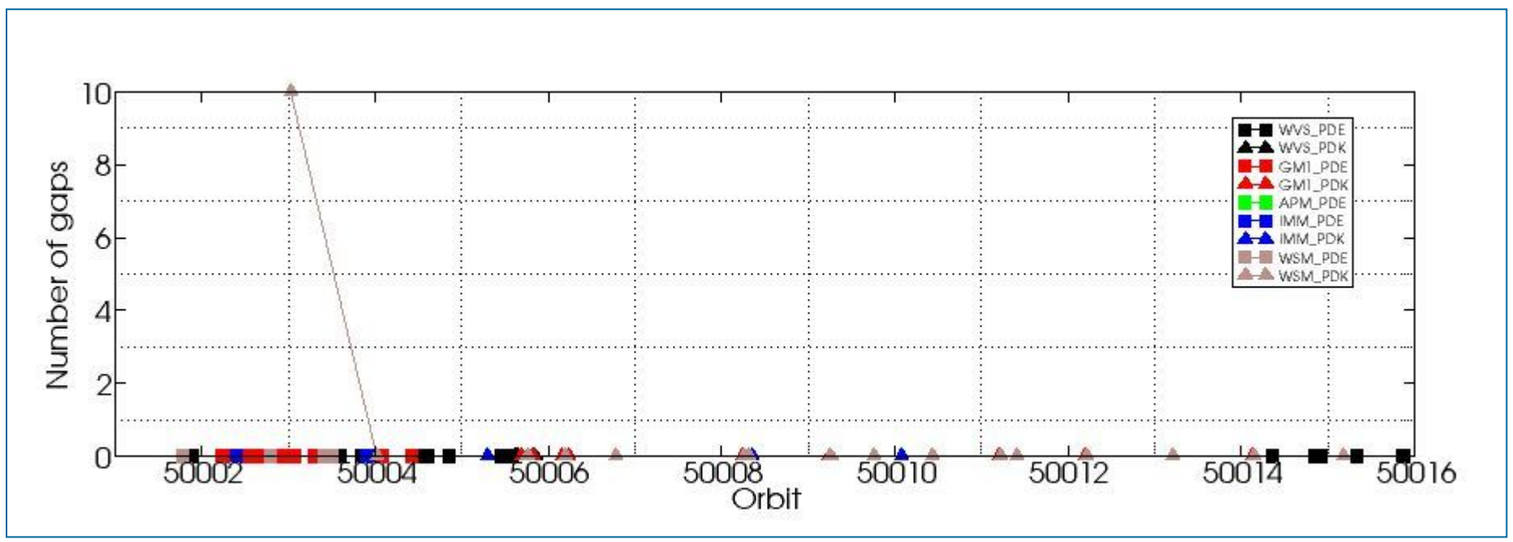
8.1 - Number of Missing lines

[BACK TO MENU]



8.2 - **Number of Gaps**

[BACK TO MENU]



```
######################################################################
ASAR DAILY REPORT for 110922
######################################################################

MODE: DAILY
ANALYSIS: ALL
DATE: 2011-09-22 00:00:00

Analysis will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110922/


DATA SUMMARY
######################################################################
Summary will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110922/DATA_SUMMARY

Creating directory ./RESULTS/DAILY/_110922/DATA_SUMMARY...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/Data_summary.html...

**************************************************
Getting WVS products list from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_WVS_products_used.xls...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_WVS_products_used.txt...

**************************************************
Getting GM1 products list from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_GM1_products_used.xls...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_GM1_products_used.txt...

**************************************************
Getting APM products list from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_APM_products_used.xls...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_APM_products_used.txt...

**************************************************
Getting IMM products list from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_IMM_products_used.xls...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_IMM_products_used.txt...

**************************************************
Getting WSM products list from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_WSM_products_used.xls...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_WSM_products_used.txt...

**************************************************
Getting MS products list from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_MS_products_used.xls...
Writing file ./RESULTS/DAILY/_110922/DATA_SUMMARY/List_MS_products_used.txt...

DATA SUMMARY completed
######################################################################




AUXILIARY FILES ANALYSIS
######################################################################
Analysis will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110922/AUXILIARY

Creating directory ./RESULTS/DAILY/_110922/AUXILIARY...


**************************************************
Looking for the IECF operational ADFs list...
```

```
ADF filter 20110922*current_3_IECF_ADFs.txt
No IECF ADFs list available for the selected period...

Writing file ./RESULTS/DAILY/_110922/AUXILIARY/ASAR_ADFs_IECF_List3.html...


AUXILIARY FILES ANALYSIS completed
######################################################################




MODULE STEPPING ANALYSIS
######################################################################
Analysis will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110922/MODULE_STEPPING

Creating directory ./RESULTS/DAILY/_110922/MODULE_STEPPING...
Creating directory ./RESULTS/DAILY/_110922/MODULE_STEPPING/FIRST_REFERENCE...
Creating directory ./RESULTS/DAILY/_110922/MODULE_STEPPING/SECOND_REFERENCE...
Creating directory ./RESULTS/DAILY/_110922/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE...
Deleting old files...

**********************************************************************************************************************
**********************************************************************************************************************
Creating images comparing with second reference...

Exporting results to the directory ../../RESULTS/DAILY/_110922/MODULE_STEPPING/SECOND_REFERENCE...

Polarization:  H
Reference product:  ASA_MS__0PNPDK20010209_135042_00000009A024_00180_11700_0052.N1
Test product: ASA_MS__0PNPDE20110922_231054_000000163107_00001_50015_0390.N1
      H
      H
../../RESULTS/DAILY/_110922/MODULE_STEPPING/SECOND_REFERENCE/TGH_20110922_231054-20010209_135042.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/SECOND_REFERENCE/TPH_20110922_231054-20010209_135042.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/SECOND_REFERENCE/RGH_20110922_231054-20010209_135042.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/SECOND_REFERENCE/RPH_20110922_231054-20010209_135042.png

Polarization:  V
Reference product:  ASA_MS__0PNPDK20010209_140823_00000009A024_00180_11700_0054.N1
Test product: ASA_MS__0PNPDK20110921_070519_000000163106_00408_49991_0787.N1
      V
      V
../../RESULTS/DAILY/_110922/MODULE_STEPPING/SECOND_REFERENCE/TGV_20110921_070519-20010209_140823.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/SECOND_REFERENCE/TPV_20110921_070519-20010209_140823.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/SECOND_REFERENCE/RGV_20110921_070519-20010209_140823.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/SECOND_REFERENCE/RPV_20110921_070519-20010209_140823.png

**********************************************************************************************************************
**********************************************************************************************************************
Creating images comparing with previous product reference...

Exporting results to the directory ../../RESULTS/DAILY/_110922/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE...

Polarization:  H
Reference product:  ASA_MS__0PNPDE20110922_044820_000000163106_00421_50004_0389.N1
Test product: ASA_MS__0PNPDE20110922_231054_000000163107_00001_50015_0390.N1
      H
      H
../../RESULTS/DAILY/_110922/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TGH_20110922_231054-20110922_044820.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TPH_20110922_231054-20110922_044820.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RGH_20110922_231054-20110922_044820.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RPH_20110922_231054-20110922_044820.png

Polarization:  V
Reference product:  ASA_MS__0PNPDK20110919_081848_000000163106_00380_49963_0784.N1
Test product: ASA_MS__0PNPDK20110921_070519_000000163106_00408_49991_0787.N1
```

```
      V
      V
../../RESULTS/DAILY/_110922/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TGV_20110921_070519-20110919_081848.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/TPV_20110921_070519-20110919_081848.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RGV_20110921_070519-20110919_081848.png
../../RESULTS/DAILY/_110922/MODULE_STEPPING/PREVIOUS_PRODUCT_REFERENCE/RPV_20110921_070519-20110919_081848.png

MODULE_STEPPING ANALYSIS completed
######################################################################



CALIBRATION PULSES ANALYSIS
######################################################################
Creating directory ./RESULTS/DAILY/_110922/CALIBRATION_PULSES...


********************************************************************************
********************************************************************************
ALL ROWS Analysing will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59

Analysing products WVS IS2 V/V
           1       33600           7       33600
Writing image ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Calibration_pulses_all_rows_WVS_IS2_VV.png...
Analysing products GM1 SS3 H/H
           1        9921           7        9921
Writing image ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Calibration_pulses_all_rows_GM1_SS3_HH.png...


********************************************************************************
********************************************************************************
TEMPORAL EVOLUTION Analysis will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59

Analysing products WVS IS2 V/V
Getting calibration pulses data for WVS IS2 V/V from 2011-09-22 00:00:00 to 2011-09-22 23:59:59. Rows: 1/5/9/13/17/21/25/29
Writing file ./RESULTS/DAILY/_110922/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2011-09-22_1.dat...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_WVS_IS2_VV_1.png...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Transmit_Power_WVS_IS2_VV_1.png...


Getting calibration pulses data for WVS IS2 V/V from 2011-09-22 00:00:00 to 2011-09-22 23:59:59. Rows: 2/6/10/14/18/22/26/30
Writing file ./RESULTS/DAILY/_110922/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2011-09-22_2.dat...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_WVS_IS2_VV_2.png...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Transmit_Power_WVS_IS2_VV_2.png...


Getting calibration pulses data for WVS IS2 V/V from 2011-09-22 00:00:00 to 2011-09-22 23:59:59. Rows: 3/7/11/15/19/23/27/31
Writing file ./RESULTS/DAILY/_110922/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2011-09-22_3.dat...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_WVS_IS2_VV_3.png...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Transmit_Power_WVS_IS2_VV_3.png...


Getting calibration pulses data for WVS IS2 V/V from 2011-09-22 00:00:00 to 2011-09-22 23:59:59. Rows: 4/8/12/16/20/24/28/32
Writing file ./RESULTS/DAILY/_110922/CALIBRATION_PULSES/Calibration_pulses_data_WVS_IS2_VV_2011-09-22_4.dat...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_WVS_IS2_VV_4.png...
Writing ../.././RESULTS/DAILY/_110922//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 2011-09-22 00:00:00 to 2011-09-22 23:59:59. Rows: 1/5/9/13/17/21/25/29
Writing file ./RESULTS/DAILY/_110922/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2011-09-22_1.dat...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_GM1_SS3_HH_1.png...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Transmit_Power_GM1_SS3_HH_1.png...


Getting calibration pulses data for GM1 SS3 H/H from 2011-09-22 00:00:00 to 2011-09-22 23:59:59. Rows: 2/6/10/14/18/22/26/30
Writing file ./RESULTS/DAILY/_110922/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2011-09-22_2.dat...
```

```
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_GM1_SS3_HH_2.png...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Transmit_Power_GM1_SS3_HH_2.png...


Getting calibration pulses data for GM1 SS3 H/H from 2011-09-22 00:00:00 to 2011-09-22 23:59:59. Rows: 3/7/11/15/19/23/27/31
Writing file ./RESULTS/DAILY/_110922/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2011-09-22_3.dat...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_GM1_SS3_HH_3.png...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Transmit_Power_GM1_SS3_HH_3.png...


Getting calibration pulses data for GM1 SS3 H/H from 2011-09-22 00:00:00 to 2011-09-22 23:59:59. Rows: 4/8/12/16/20/24/28/32
Writing file ./RESULTS/DAILY/_110922/CALIBRATION_PULSES/Calibration_pulses_data_GM1_SS3_HH_2011-09-22_4.dat...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Average_P1_P1a_P2_P3_GM1_SS3_HH_4.png...
Writing ../.././RESULTS/DAILY/_110922//CALIBRATION_PULSES/Transmit_Power_GM1_SS3_HH_4.png...



CALIBRATION PULSES ANALYSIS completed
######################################################################




DOPPLER ANALYSIS
######################################################################
Creating directory ./RESULTS/DAILY/_110922/DOPPLER...


*********************************************************************************************
*********************************************************************************************
DOPPLER ANX Analysis will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59

Analysing products WVS IS2 V/V
Getting doppler data for WVS IS2 V/V from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/DOPPLER/Doppler_data_WVS_IS2_VV_2011-09-22.dat...
Running IDL program...
Writing file ../../RESULTS/DAILY/_110922/DOPPLER/DOPPLER_ANX_WVS_IS2_VV.png...

Analysing products GM1 SS1 H/H
Getting doppler data for GM1 SS1 H/H from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/DOPPLER/Doppler_data_GM1_SS1_HH_2011-09-22.dat...
Running IDL program...
Writing file ../../RESULTS/DAILY/_110922/DOPPLER/DOPPLER_ANX_GM1_SS1_HH.png...



*********************************************************************************************
*********************************************************************************************
DOPPLER JUMPS Analysis will be performed on WSM products from 2011-09-22 00:00:00 to 2011-09-22 23:59:59

Analysing by default products WSM
Getting doppler jumps data for WSM from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/DOPPLER/Doppler_Jumps_data_WSM_2011-09-22.dat...
Running IDL program...
Writing file ../../RESULTS/DAILY/_110922/DOPPLER/DOPPLER_JUMPS_ANX_WSM.png...
Writing file ../../RESULTS/DAILY/_110922/DOPPLER/DOPPLER_JUMPS_Date_WSM.png...

*********************************************************************************************
*********************************************************************************************
DOPPLER MAP Analysis will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59

Analysing products WVS IS2 V/V
mysql -h172.26.16.25 -ucbts_WV -pcbts_WV -e "SELECT Glon,Glat,D0,ANX FROM file,Dop WHERE Product='WVS' AND Beam='IS2' AND Pol='V/V' AND file.FileId=Dop.FileId AND ZDopTime BETWEEN '2011-09-22 00:00:00' AND
'2011-09-22 23:59:59' AND (ANX  BETWEEN '1500' AND '4500' );" cbts_WV
          1
        131
          1        131          7        131
          1        130          7        130
```

```
         498
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 =  -28.875065 Hz
Writing file ../.././RESULTS/DAILY/_110922//DOPPLER/DOPPLER_Estimated-Predicted-MeanError_WVS_IS2_VV_desc.jpg...
Writing file ../.././RESULTS/DAILY/_110922//DOPPLER/DOPPLER_Absolute_WVS_IS2_VV_desc.jpg...

******************************************************
mysql -h172.26.16.25 -ucbts_WV -pcbts_WV -e "SELECT Glon,Glat,D0,ANX FROM file,Dop WHERE Product='WVS' AND Beam='IS2' AND Pol='V/V' AND file.FileId=Dop.FileId AND ZDopTime BETWEEN '2011-09-22 00:00:00' AND
'2011-09-22 23:59:59' AND ((ANX  BETWEEN '0' AND '1500' ) or (ANX  BETWEEN '4500' AND '6500' ));" cbts_WV
          1
        102
          1         102           7         102
          1         101           7         101
        554
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 =  -32.995637 Hz
Writing file ../.././RESULTS/DAILY/_110922//DOPPLER/DOPPLER_Estimated-Predicted-MeanError_WVS_IS2_VV_asc.jpg...
Writing file ../.././RESULTS/DAILY/_110922//DOPPLER/DOPPLER_Absolute_WVS_IS2_VV_asc.jpg...

*******************************************************


Analysing products GM1 SS1 H/H
mysql -h172.26.16.25 -ucbts_GM -pcbts_GM -e "SELECT Glon,Glat,D0,ANX FROM file,Dop WHERE Product='GM1' AND Beam='SS1' AND Pol='H/H' AND file.FileId=Dop.FileId AND ZDopTime BETWEEN '2011-09-22 00:00:00' AND
'2011-09-22 23:59:59' AND (ANX  BETWEEN '1500' AND '4500' );" cbts_GM
          1
          1
          0           7           1
        646
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 =  -23.124074 Hz
Writing file ../.././RESULTS/DAILY/_110922//DOPPLER/DOPPLER_Estimated-Predicted-MeanError_GM1_SS1_HH_desc.jpg...
Writing file ../.././RESULTS/DAILY/_110922//DOPPLER/DOPPLER_Absolute_GM1_SS1_HH_desc.jpg...

*******************************************************
mysql -h172.26.16.25 -ucbts_GM -pcbts_GM -e "SELECT Glon,Glat,D0,ANX FROM file,Dop WHERE Product='GM1' AND Beam='SS1' AND Pol='H/H' AND file.FileId=Dop.FileId AND ZDopTime BETWEEN '2011-09-22 00:00:00' AND
'2011-09-22 23:59:59' AND ((ANX  BETWEEN '0' AND '1500' ) or (ANX  BETWEEN '4500' AND '6500' ));" cbts_GM
          1
          1
          0          7          1
        591
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
```

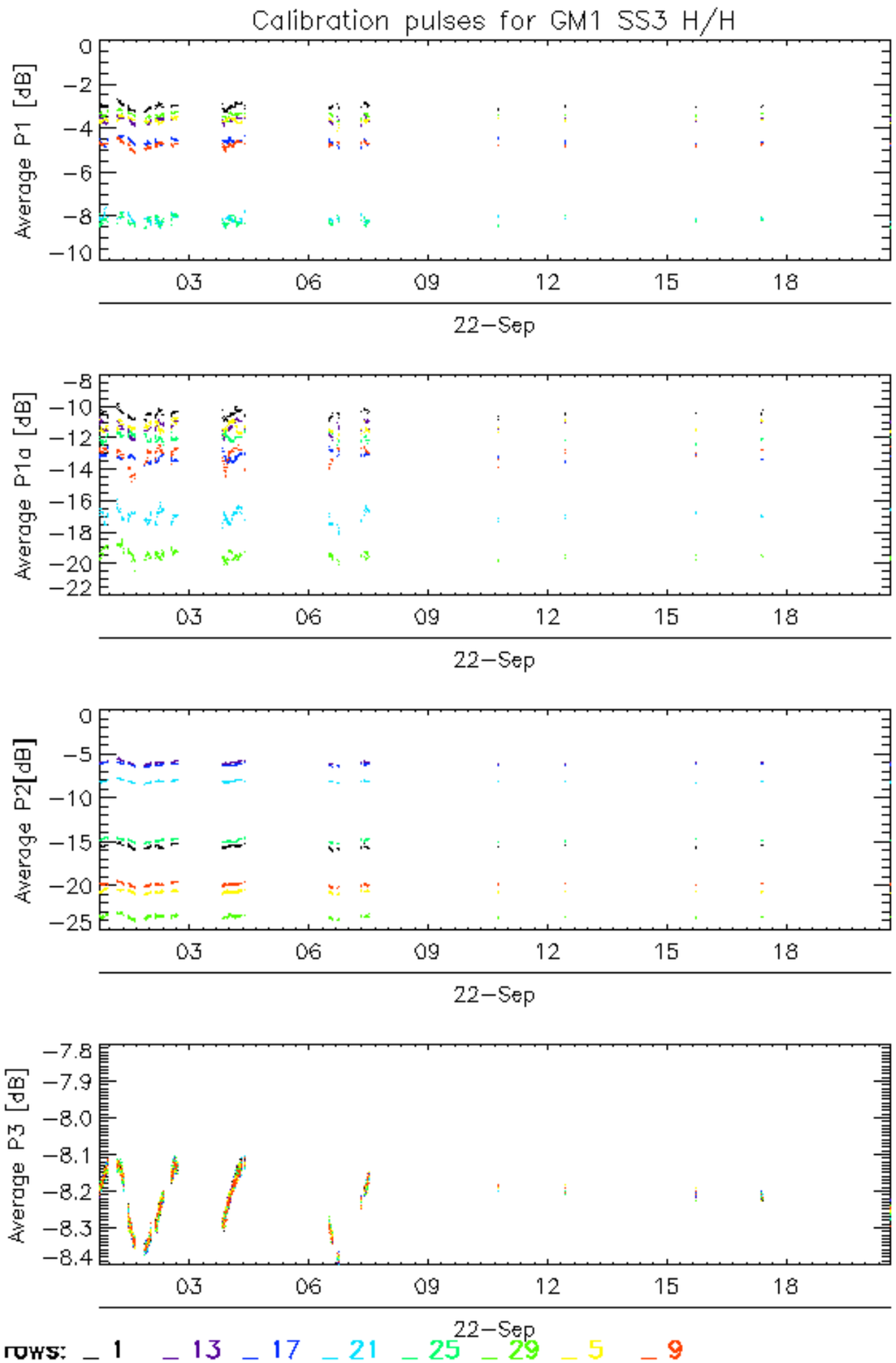
```
-127.666
-206.286
-286.470
-366.984
-446.581
-524.012
-598.050
-667.520
-731.288
-788.309
-837.633
-878.414
-909.930
-931.592
-942.955
-943.721
-933.748
-913.049
-881.794
-840.306
-789.059
-728.670
-659.882
-583.571
-500.712
-412.383
-319.741
-224.000
-126.420
-28.2956
 69.0819
 164.424
 256.474
 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 =  -31.123311 Hz
Writing file ../.././RESULTS/DAILY/_110922//DOPPLER/DOPPLER_Estimated-Predicted-MeanError_GM1_SS1_HH_asc.jpg...
Writing file ../.././RESULTS/DAILY/_110922//DOPPLER/DOPPLER_Absolute_GM1_SS1_HH_asc.jpg...

******************************************************


DOPPLER ANALYSIS completed
######################################################################
```

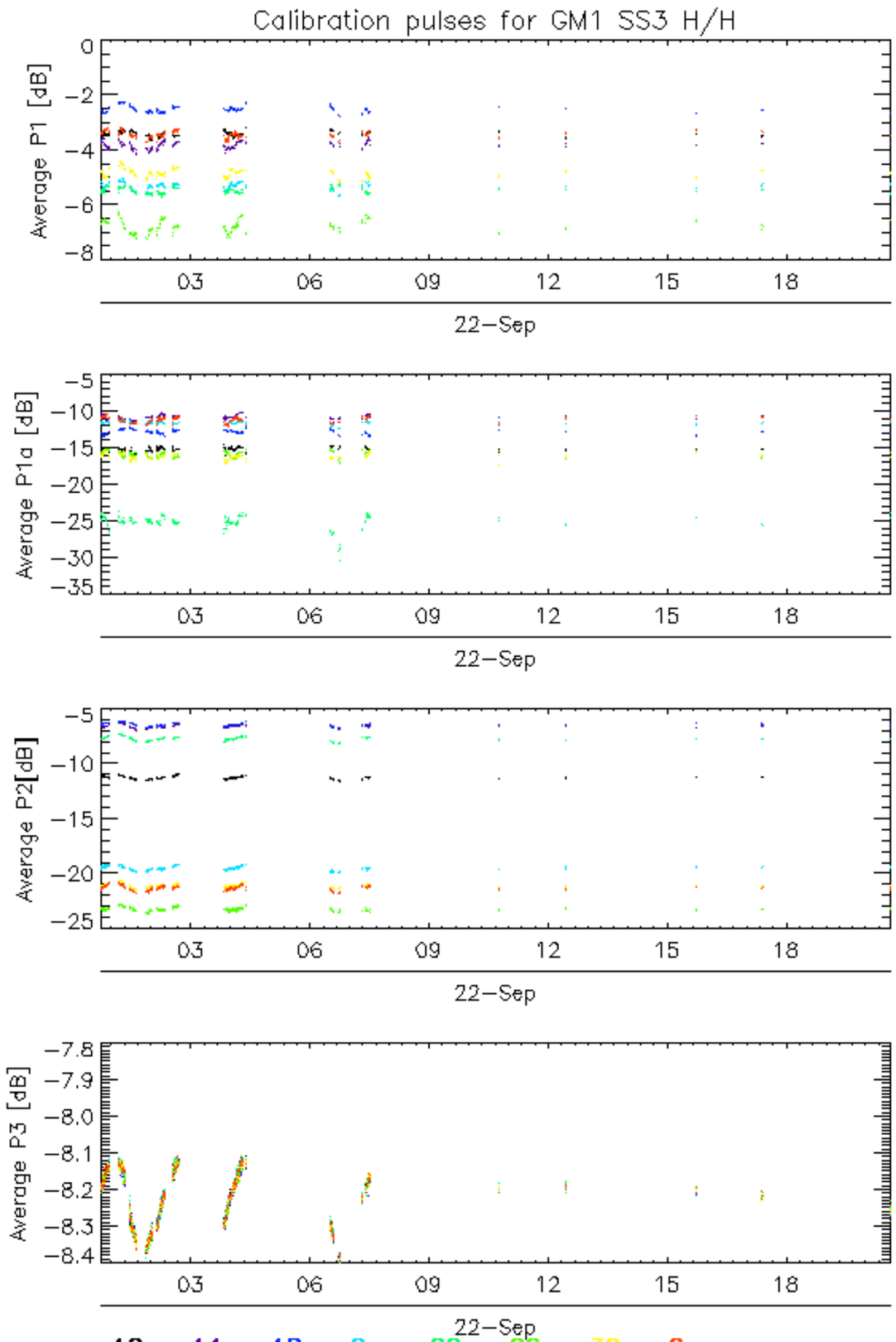
```
CHIRP ANALYSIS
######################################################################
Creating directory ./RESULTS/DAILY/_110922/CHIRP...


**************************************************************************************
**************************************************************************************
CHIRP Analysis will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59


Analysing products WSM SS1 H/H
************************************************************
Getting ScaleFactor data for WSM SS1 H/H from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/CHIRP/ScaleFactor_data_WSM_SS1_HH_2011-09-22.dat...
Running IDL program...
Writing file ../../RESULTS/DAILY/_110922/CHIRP/ScaleFactor_ANX_WSM_SS1_HH.png...
Writing file ../../RESULTS/DAILY/_110922/CHIRP/ScaleFactor_DATE_WSM_SS1_HH.png...


Analysing products WSM SS1 V/V
************************************************************
Getting ScaleFactor data for WSM SS1 V/V from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/CHIRP/ScaleFactor_data_WSM_SS1_VV_2011-09-22.dat...
Running IDL program...
Writing file ../../RESULTS/DAILY/_110922/CHIRP/ScaleFactor_ANX_WSM_SS1_VV.png...
Writing file ../../RESULTS/DAILY/_110922/CHIRP/ScaleFactor_DATE_WSM_SS1_VV.png...

CHIRP ANALYSIS completed
######################################################################
```

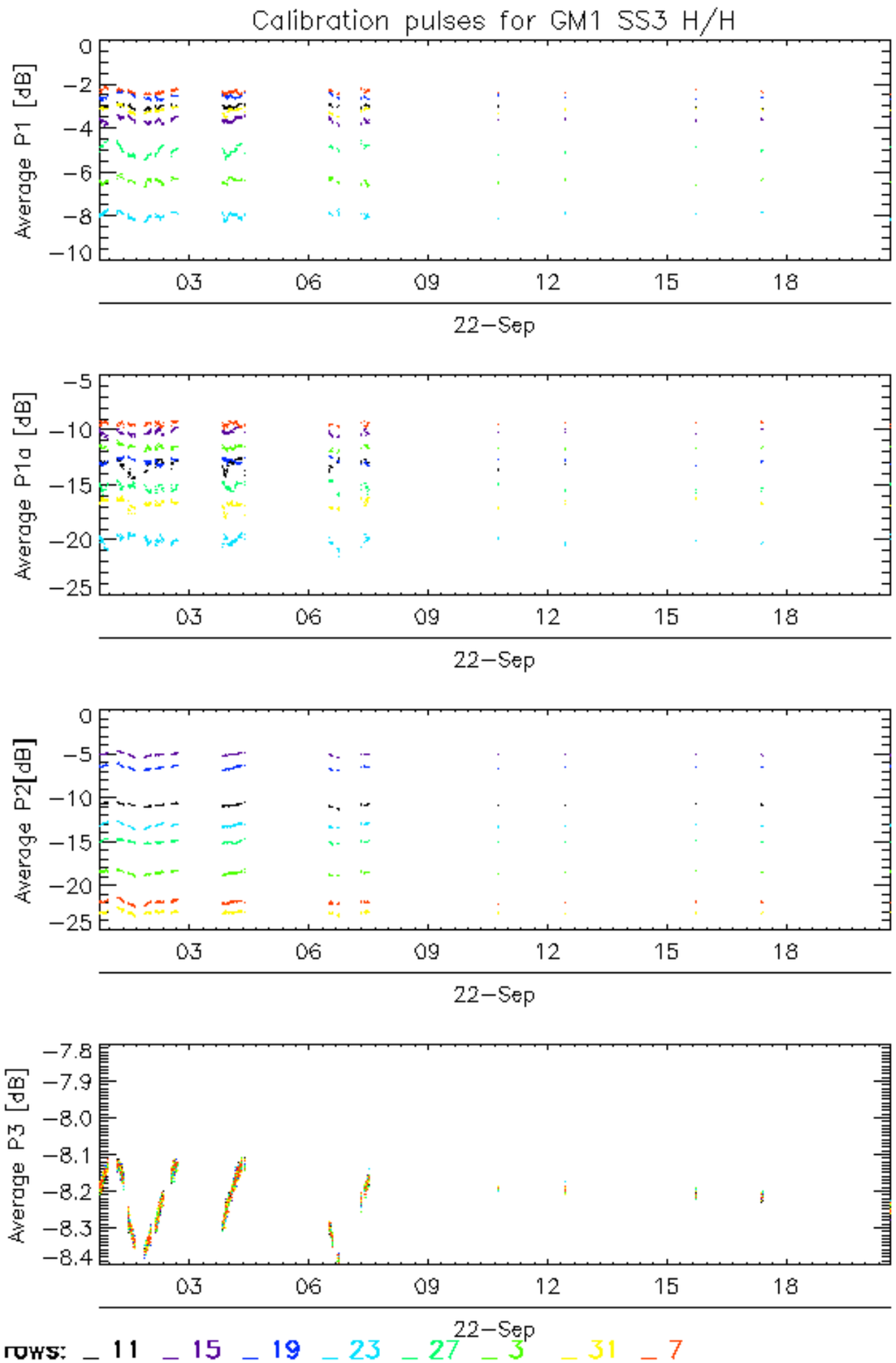
```
RAW DATA ANALYSIS
######################################################################
Analysis will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110922/RAW_DATA

Creating directory ./RESULTS/DAILY/_110922/RAW_DATA...

************************************************************************
Getting raw data for WVS from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/RAW_DATA/Raw_data_WVS_2011-09-22.dat...
Running IDL program to create graphs...

Creating image ../../RESULTS/DAILY/_110922/RAW_DATA/Raw_data_WVS_input_mean.png...
Creating image ../../RESULTS/DAILY/_110922/RAW_DATA/Raw_data_WVS_input_stdev.png...
Creating image ../../RESULTS/DAILY/_110922/RAW_DATA/Raw_data_WVS_gain_imbalance.png...

************************************************************************
Getting raw data for IMM from 2011-09-22 00:00:00 to 2011-09-22 23:59:59...
Writing file ./RESULTS/DAILY/_110922/RAW_DATA/Raw_data_IMM_2011-09-22.dat...
Running IDL program to create graphs...

Creating image ../../RESULTS/DAILY/_110922/RAW_DATA/Raw_data_IMM_input_mean.png...
Creating image ../../RESULTS/DAILY/_110922/RAW_DATA/Raw_data_IMM_input_stdev.png...
Creating image ../../RESULTS/DAILY/_110922/RAW_DATA/Raw_data_IMM_gain_imbalance.png...

RAW DATA ANALYSIS completed
######################################################################



TELEMETRY ANALYSIS
```

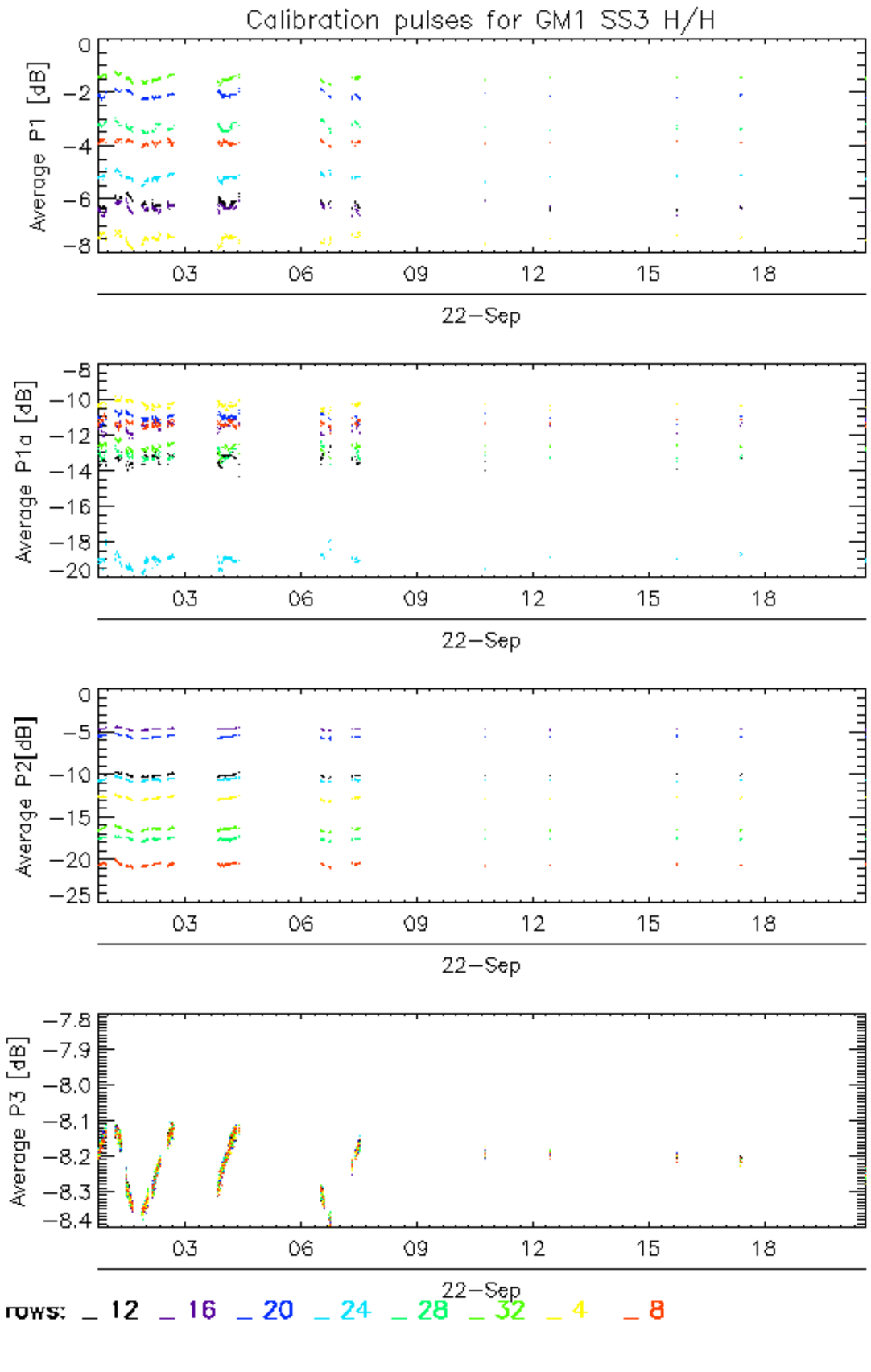
```
######################################################################
Analysis will be performed from 2011-09-22 00:00:00 to 2011-09-22 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_110922/TELEMETRY

Creating directory ./RESULTS/DAILY/_110922/TELEMETRY...

Looking for gaps and missing lines in WVS products...
**********************************
Checking 24 products from PDE...
Checking 8 products from PDK...

Looking for gaps and missing lines in GM1 products...
**********************************
Checking 10 products from PDE...
Checking 9 products from PDK...
Found product...ASA_GM1_1PNPDK20110922_062952_000004283106_00422_50005_3226.N1 / 0 gaps / 87 missing lines
Found product...ASA_GM1_1PNPDK20110922_071808_000001503106_00423_50006_3229.N1 / 0 gaps / 15 missing lines

Looking for gaps and missing lines in APM products...
**********************************
Checking 1 products from PDE...
No products from PDK...

Looking for gaps and missing lines in IMM products...
**********************************
Checking 2 products from PDE...
Checking 3 products from PDK...

Looking for gaps and missing lines in WSM products...
**********************************
Checking 5 products from PDE...
Checking 16 products from PDK...
Found product...ASA_WSM_1PNPDK20110922_020327_000002693106_00420_50003_3092.N1 / 10 gaps / 2770 missing lines
Found product...ASA_WSM_1PNPDK20110922_034329_000003923106_00421_50004_3116.N1 / 0 gaps / 58 missing lines

Creating graph of missing lines and gaps...
**********************************************************
Creating image: ./RESULTS/DAILY/_110922/TELEMETRY/TELEMETRY_Missing_lines.png...
Creating image: ./RESULTS/DAILY/_110922/TELEMETRY/TELEMETRY_Gaps.png...

TELEMETRY ANALYSIS completed
######################################################################



HTML REPORT generation
######################################################################


Building file ./RESULTS/DAILY/_110922/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
######################################################################
```

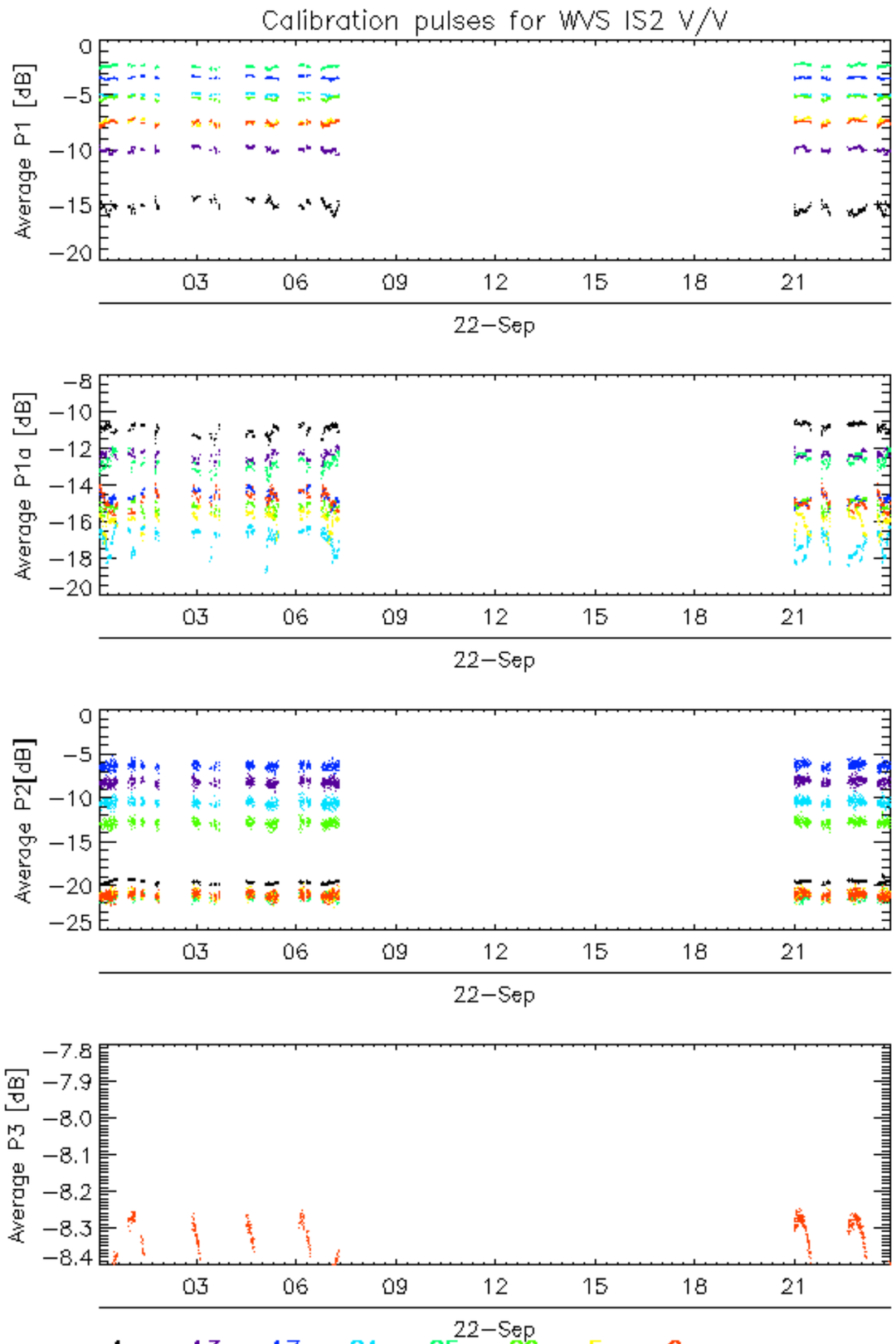

IDEAS

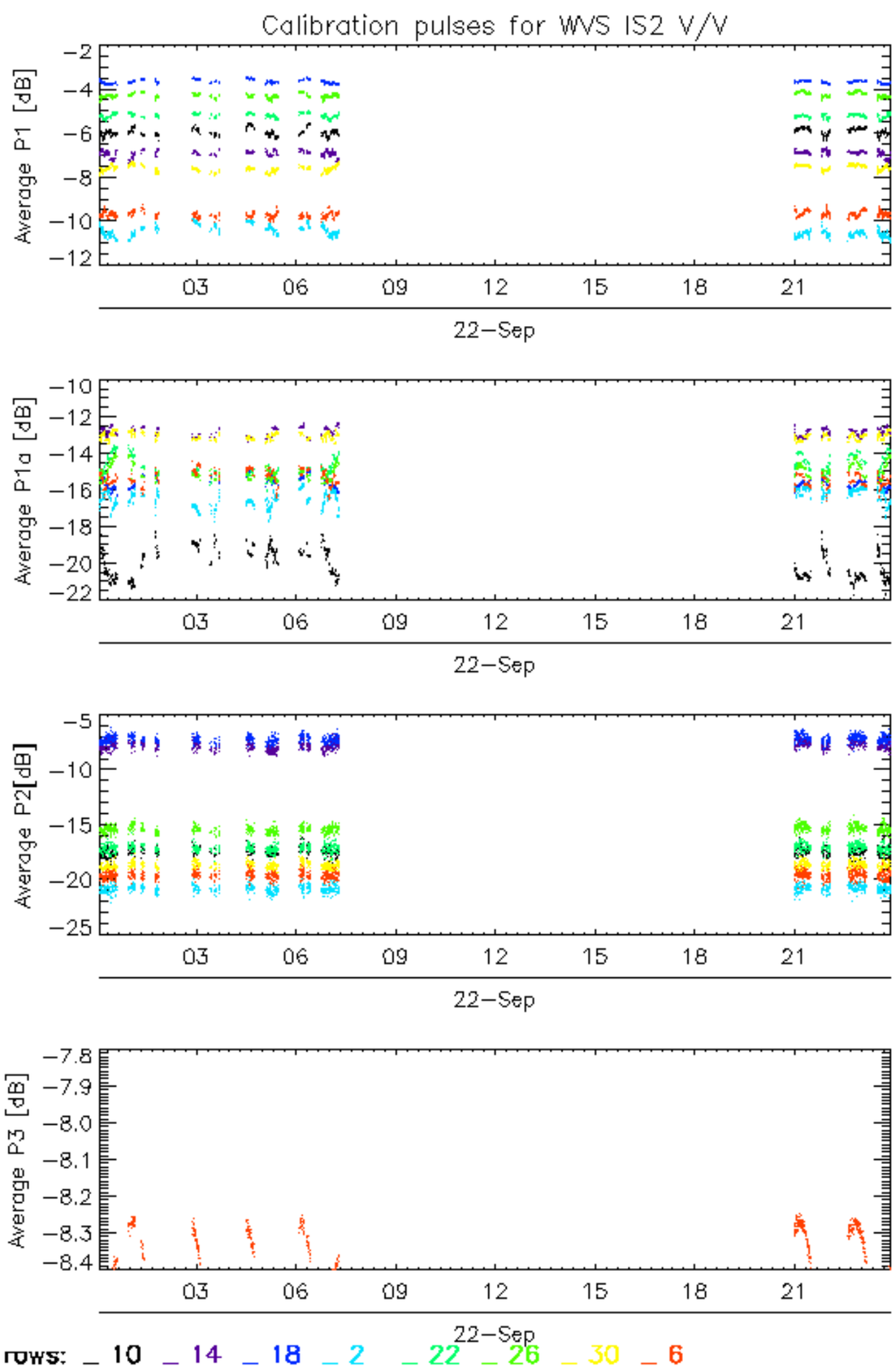

Calibration pulses for GM1 SS3 H/H
Average P1 [dB]
0
−2
−4
−6
−8
−10
03
06
09
12
15
18
22−Sep
Average P1a [dB]
−8
−10
−12
−14
−16
−18
−20
−22
03
06
09
12
15
18
22−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
03
06
09
12
15
18
22−Sep
Average P3 [dB]
−7.8
−7.9
−8.0
−8.1
−8.2
−8.3
−8.4
03
06
09
12
15
18
22−Sep
rows: _ 1 _ 13 _ 17 _ 21 _ 25 _ 29 _ 5 _ 9

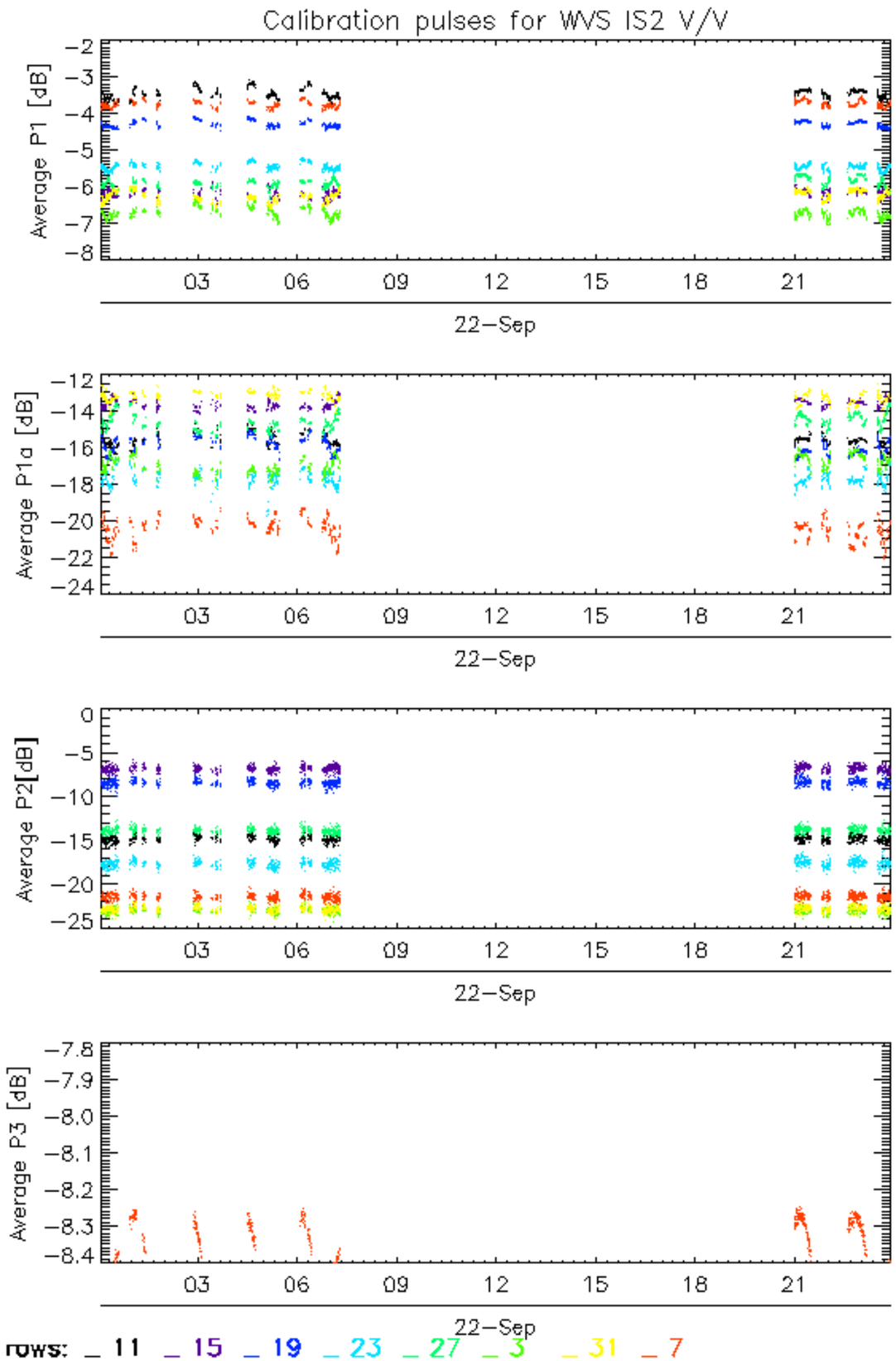

Calibration pulses for GM1 SS3 H/H
Average P1 [dB]
0
−2
−4
−6
−8
03
06
09
12
15
18
22−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
−30
−35
03
06
09
12
15
18
22−Sep
Average P2[dB]
−5
−10
−15
−20
−25
03
06
09
12
15
18
22−Sep
Average P3 [dB]
−7.8
−7.9
−8.0
−8.1
−8.2
−8.3
−8.4
03
06
09
12
15
18
22−Sep
rows: _ 10 _ 14 _ 18 _ 2 _ 22 _ 26 _ 30 _ 6

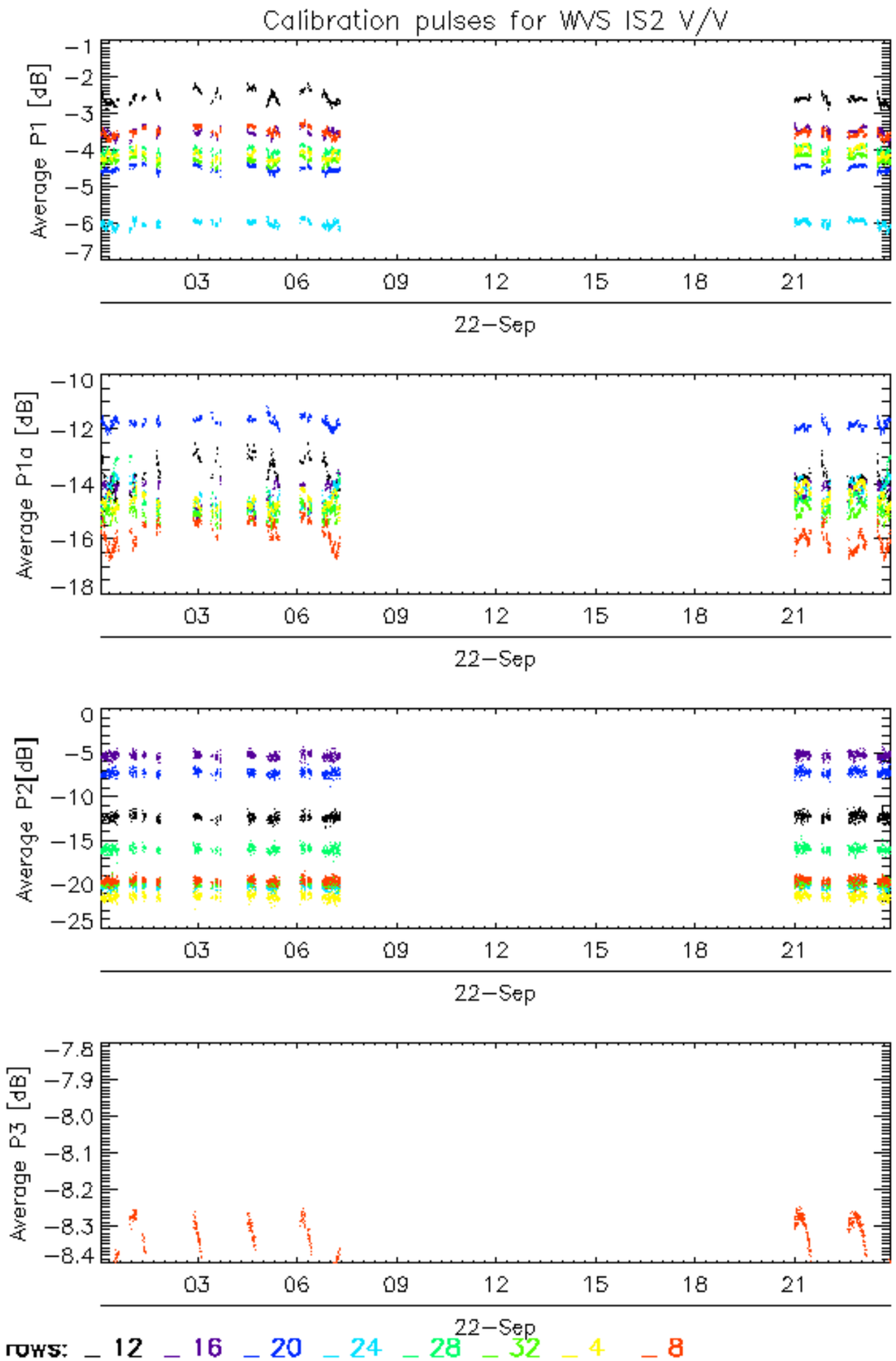

Calibration pulses for GM1 SS3 H/H
Average P1 [dB]
0
−2
−4
−6
−8
−10
03
06
09
12
15
18
22−Sep
Average P1a [dB]
−5
−10
−15
−20
−25
Average P2[dB]
Average P3 [dB]
−7.8
−7.9
−8.0
−8.1
−8.2
−8.3
−8.4
rows: 11 15 19 23 27 3 31 7

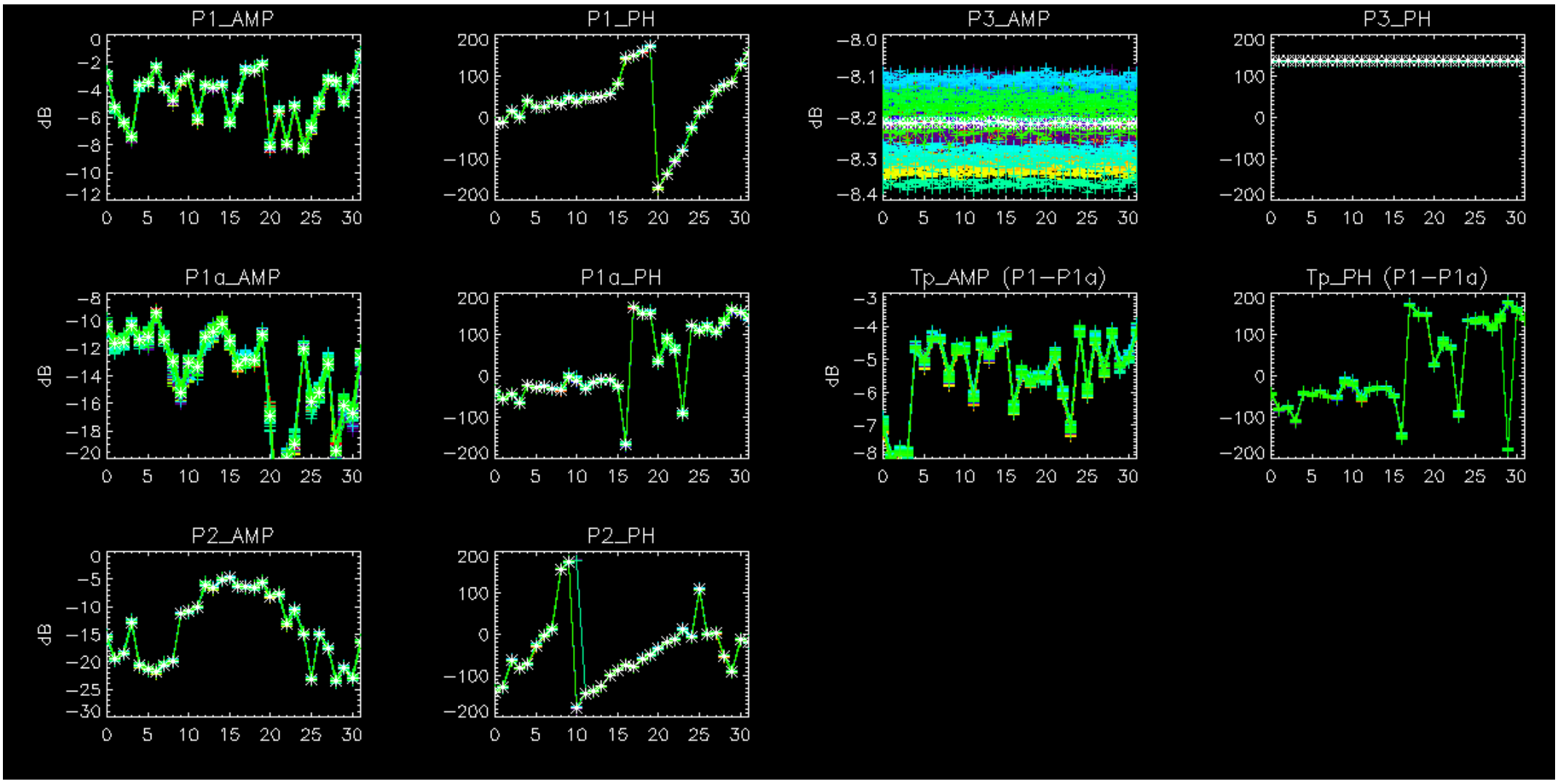

Calibration pulses for GM1 SS3 H/H
Average P1 [dB]
0
−2
−4
−6
−8
03
06
09
12
15
18
22−Sep
Average P1a [dB]
−8
−10
−12
−14
−16
−18
−20
Average P2[dB]
−5
−15
−25
Average P3 [dB]
−7.8
−7.9
−8.0
−8.1
−8.2
−8.3
−8.4
rows: _ 12 _ 16 _ 20 _ 24 _ 28 _ 32 _ 4 _ 8

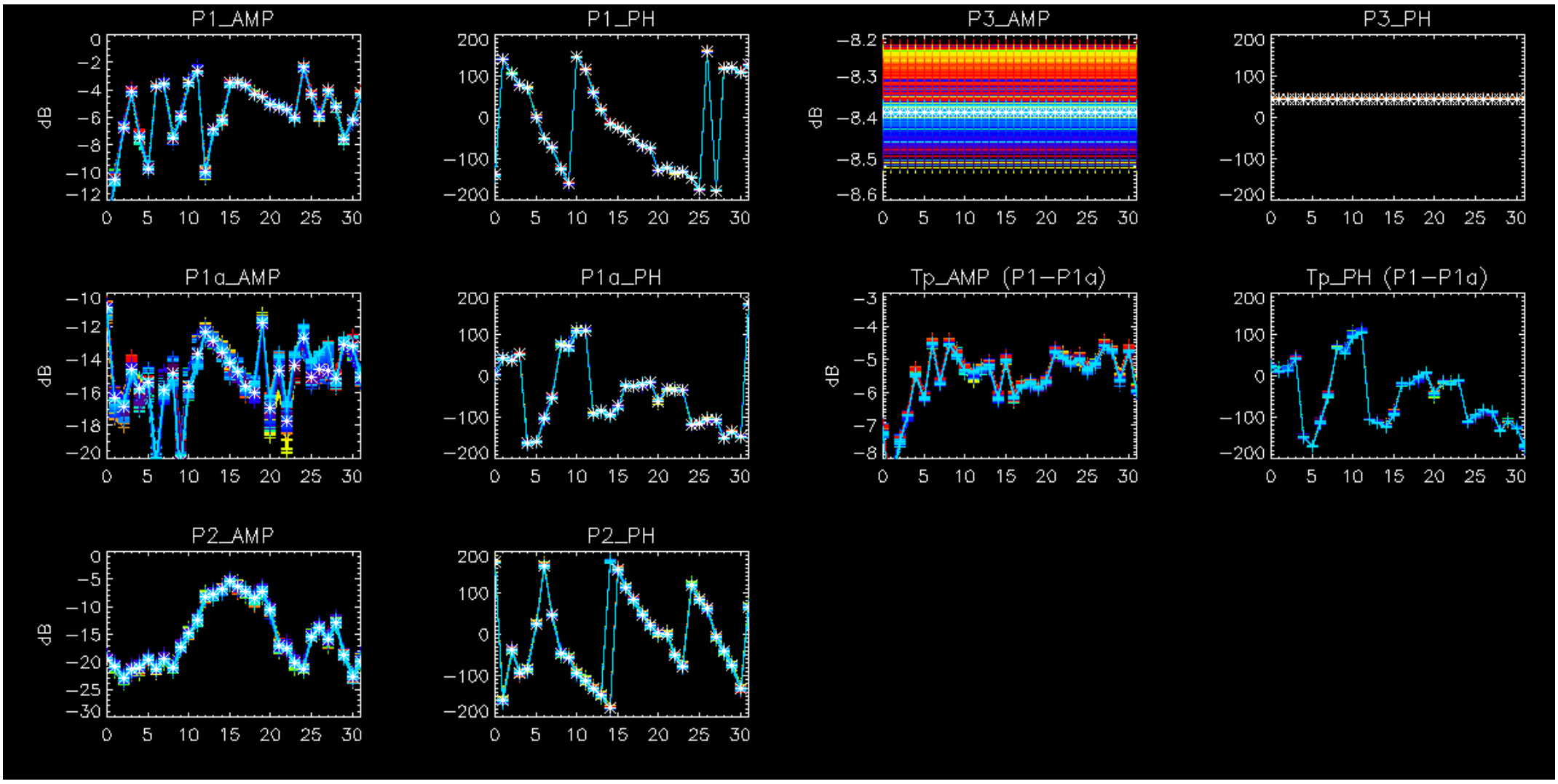

Calibration pulses for WVS IS2 V/V
Average P1 [dB]
0
−5
−10
−15
−20
03
06
09
12
15
18
21
22−Sep
Average P1a [dB]
−8
−10
−12
−14
−16
−18
−20
Average P2[dB]
−25
Average P3 [dB]
−7.8
−7.9
−8.0
−8.1
−8.2
−8.3
−8.4
rows: _ 1 _ 13 _ 17 _ 21 _ 25 _ 29 _ 5 _ 9

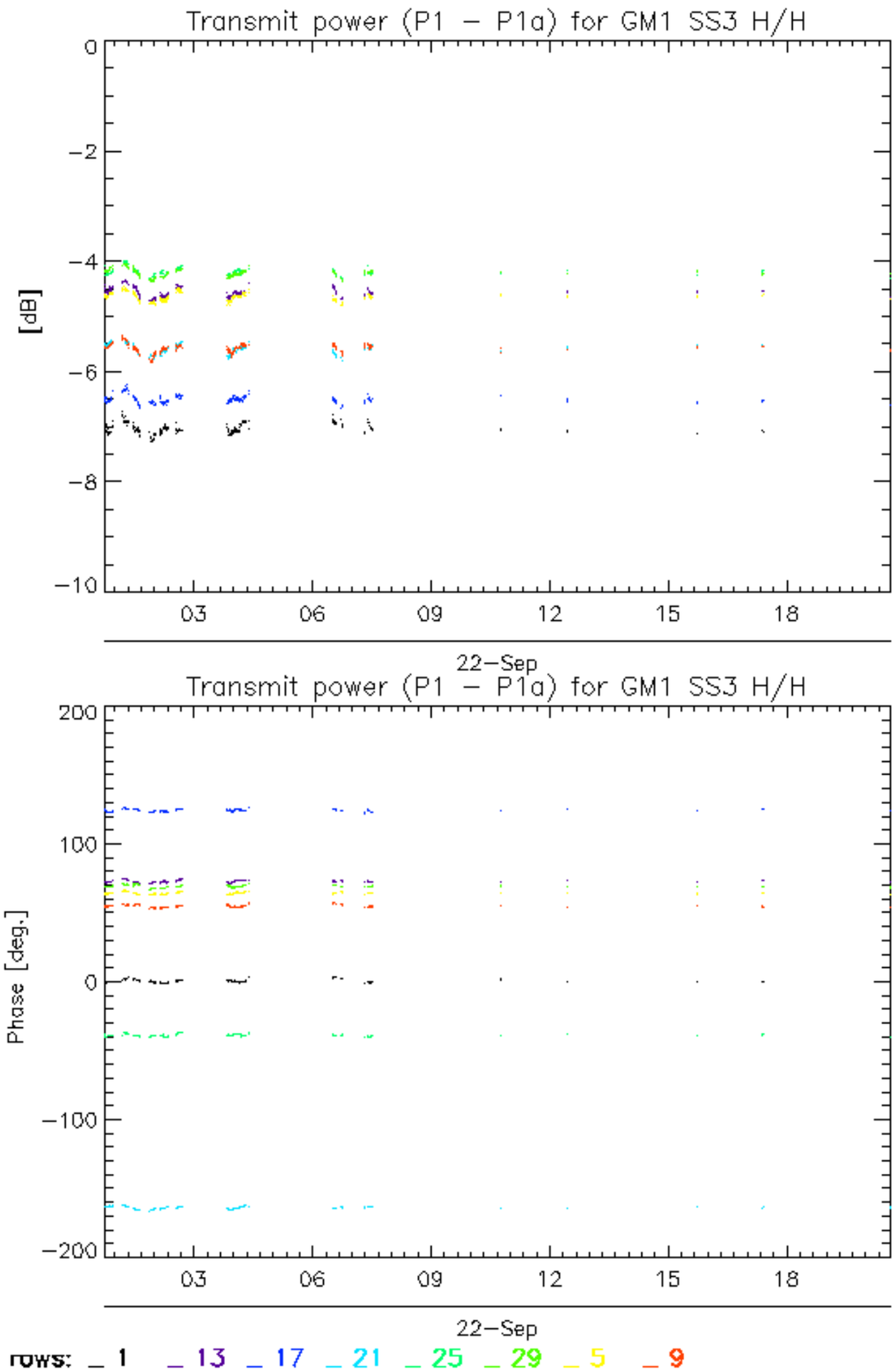

Calibration pulses for WVS IS2 V/V
Average P1 [dB]
−2
−4
−6
−8
−10
−12
03
06
09
12
15
18
21
22−Sep
Average P1a [dB]
−10
−12
−14
−16
−18
−20
−22
03
06
09
12
15
18
21
22−Sep
Average P2[dB]
−5
−10
−15
−20
−25
03
06
09
12
15
18
21
22−Sep
Average P3 [dB]
−7.8
−7.9
−8.0
−8.1
−8.2
−8.3
−8.4
03
06
09
12
15
18
21
22−Sep
rows: _ 10 _ 14 _ 18 _ 2 _ 22 _ 26 _ 30 _ 6

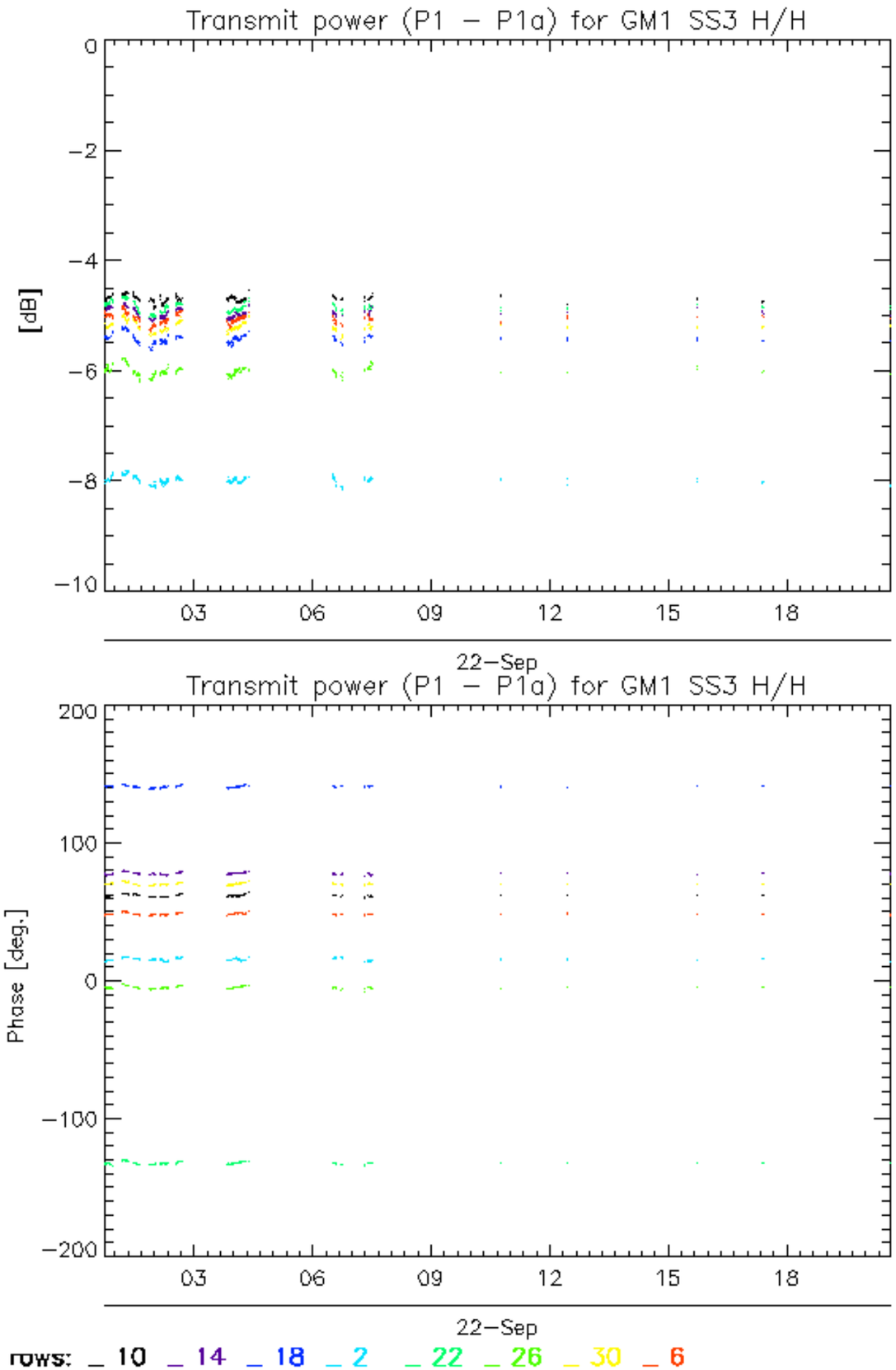

Calibration pulses for WVS IS2 V/V
Average P1 [dB]
−2
−3
−4
−5
−6
−7
−8
03
06
09
12
15
18
21
22−Sep
Average P1a [dB]
−12
−14
−16
−18
−20
−22
−24
03
06
09
12
15
18
21
22−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
03
06
09
12
15
18
21
22−Sep
Average P3 [dB]
−7.8
−7.9
−8.0
−8.1
−8.2
−8.3
−8.4
03
06
09
12
15
18
21
22−Sep
rows: _ 11 _ 15 _ 19 _ 23 _ 27 _ 3 _ 31 _ 7

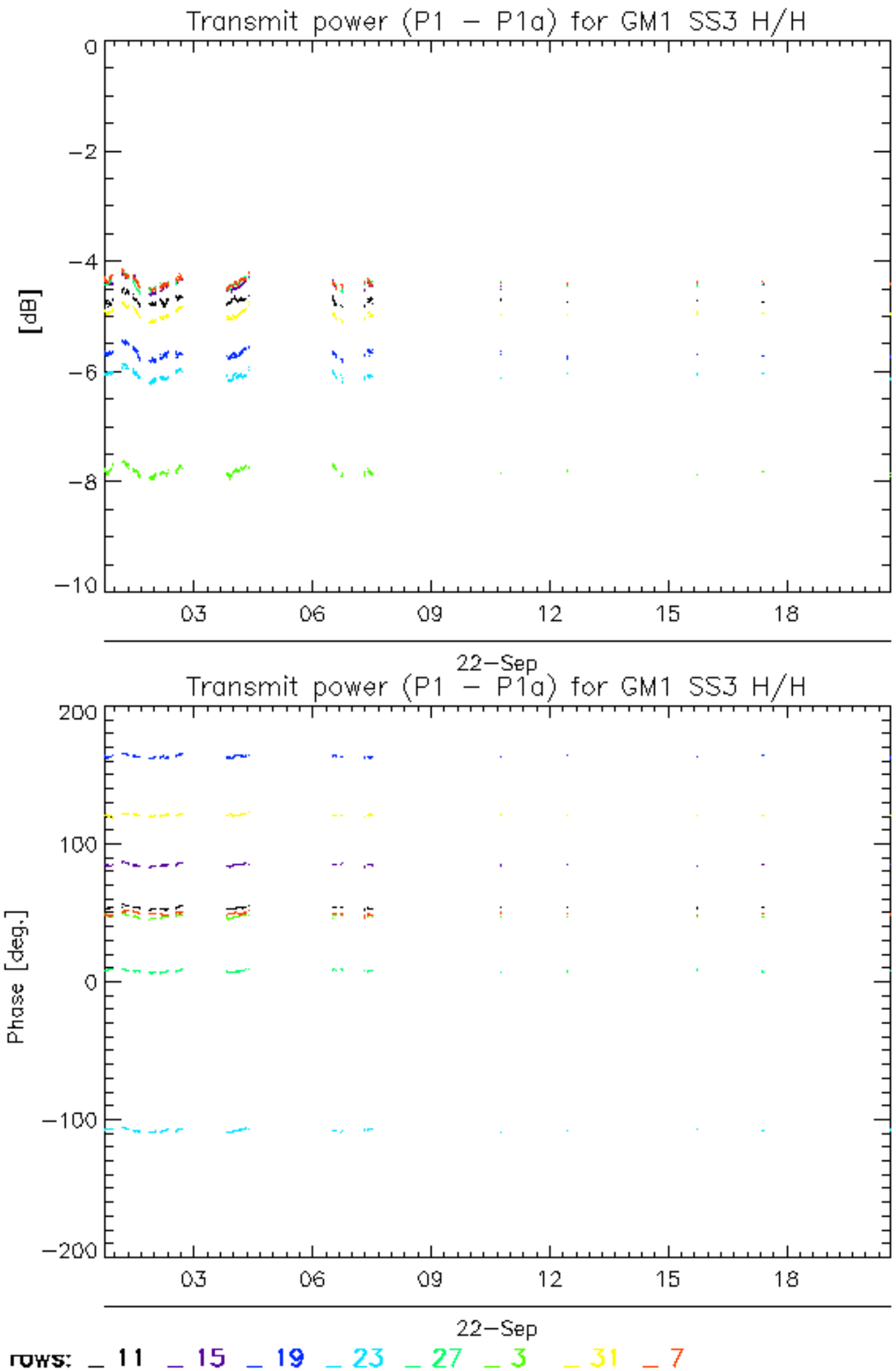

Calibration pulses for WVS IS2 V/V
Average P1 [dB]
−1
−2
−3
−4
−5
−6
−7
03
06
09
12
15
18
21
22−Sep
Average P1a [dB]
−10
−12
−14
−16
−18
03
06
09
12
15
18
21
22−Sep
Average P2[dB]
0
−5
−10
−15
−20
−25
03
06
09
12
15
18
21
22−Sep
Average P3 [dB]
−7.8
−7.9
−8.0
−8.1
−8.2
−8.3
−8.4
03
06
09
12
15
18
21
22−Sep
rows: _ 12 _ 16 _ 20 _ 24 _ 28 _ 32 _ 4 _ 8

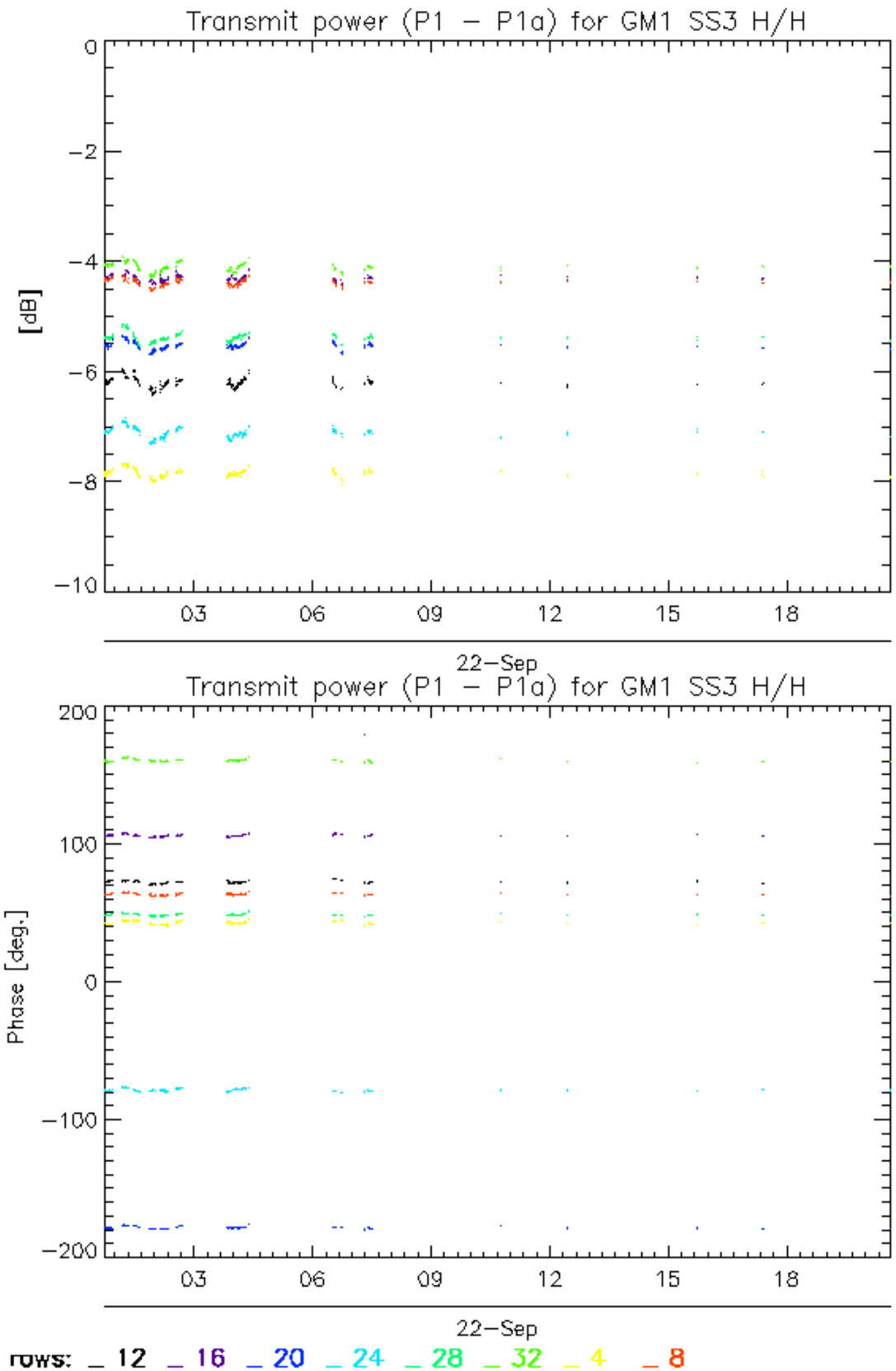

P1_AMP
dB
P1_PH
P3_AMP
dB
P3_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH

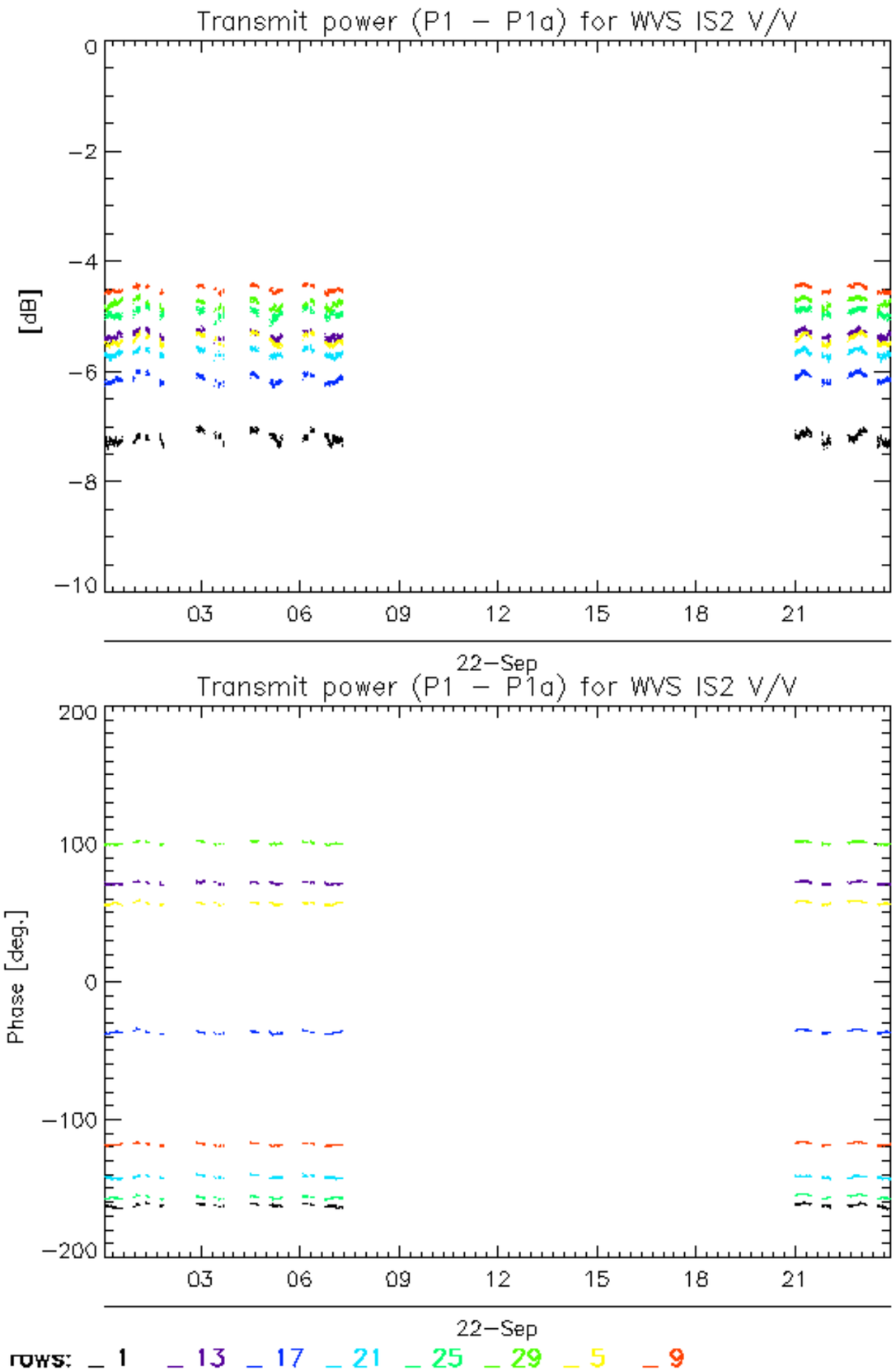

P1_AMP
dB
P1_PH
P3_AMP
dB
P3_PH
P1a_AMP
dB
P1a_PH
Tp_AMP (P1−P1a)
dB
Tp_PH (P1−P1a)
P2_AMP
dB
P2_PH

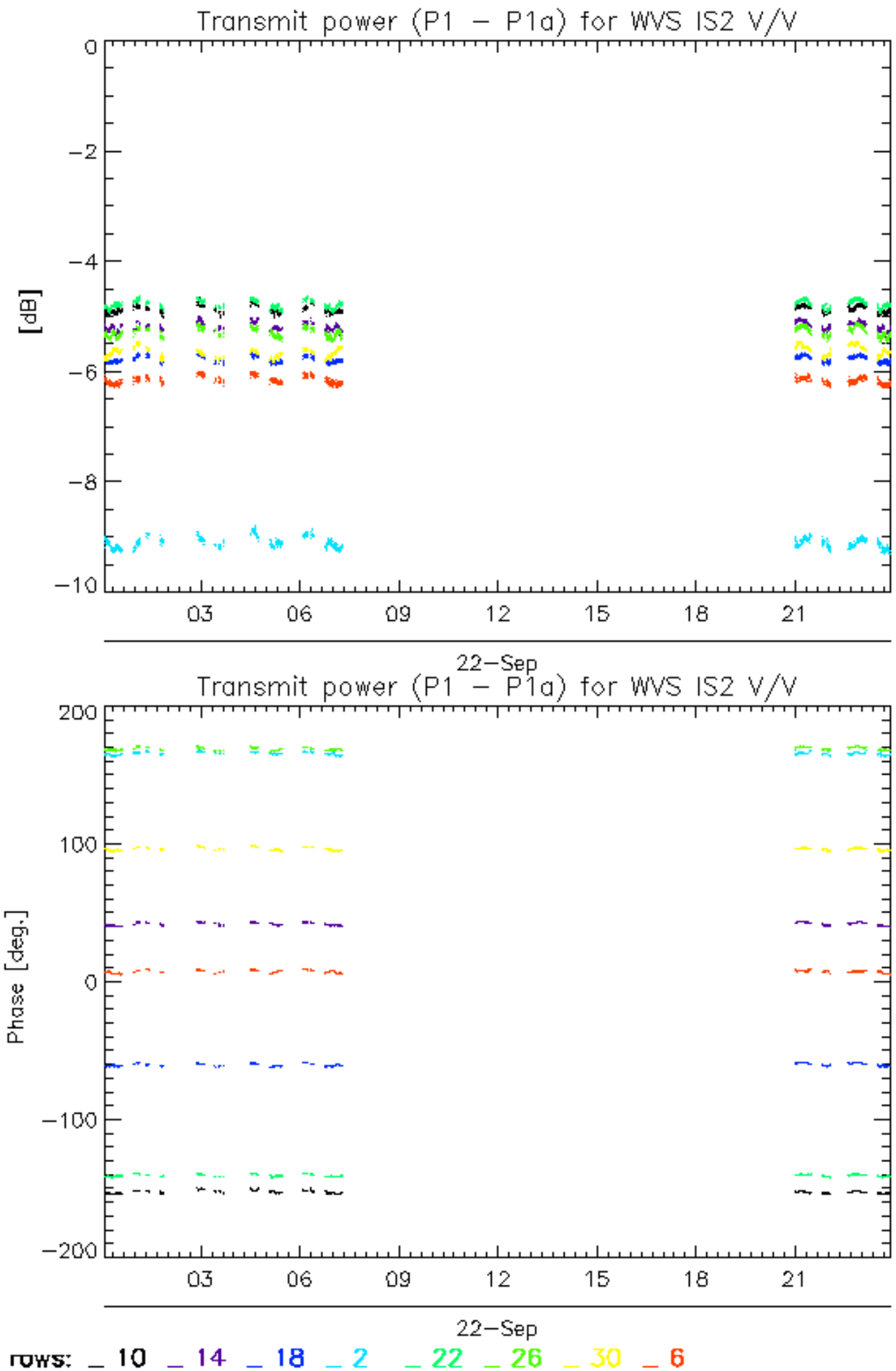

Transmit power (P1 – P1a) for GM1 SS3 H/H
0
−2
−4
−6
−8
−10
[dB]
03
06
09
12
15
18
22−Sep
Transmit power (P1 – P1a) for GM1 SS3 H/H
200
100
0
−100
−200
Phase [deg.]
03
06
09
12
15
18
22−Sep
rows: 1 13 17 21 25 29 5 9

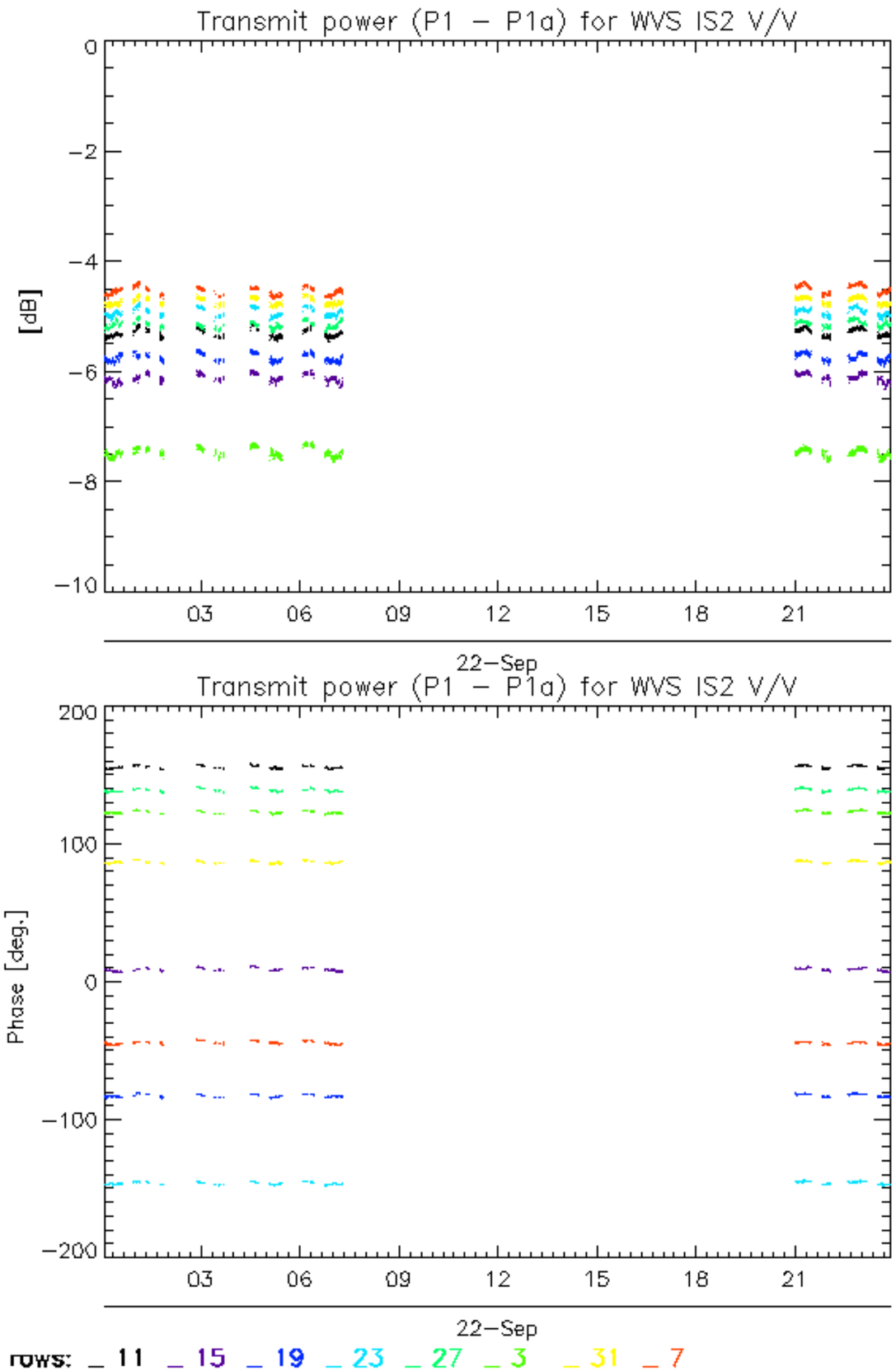

Transmit power (P1 – P1a) for GM1 SS3 H/H
0
−2
−4
−6
−8
−10
[dB]
03
06
09
12
15
18
22–Sep
Transmit power (P1 – P1a) for GM1 SS3 H/H
200
100
0
−100
−200
Phase [deg.]
03
06
09
12
15
18
22–Sep
rows: 10 14 18 2 22 26 30 6

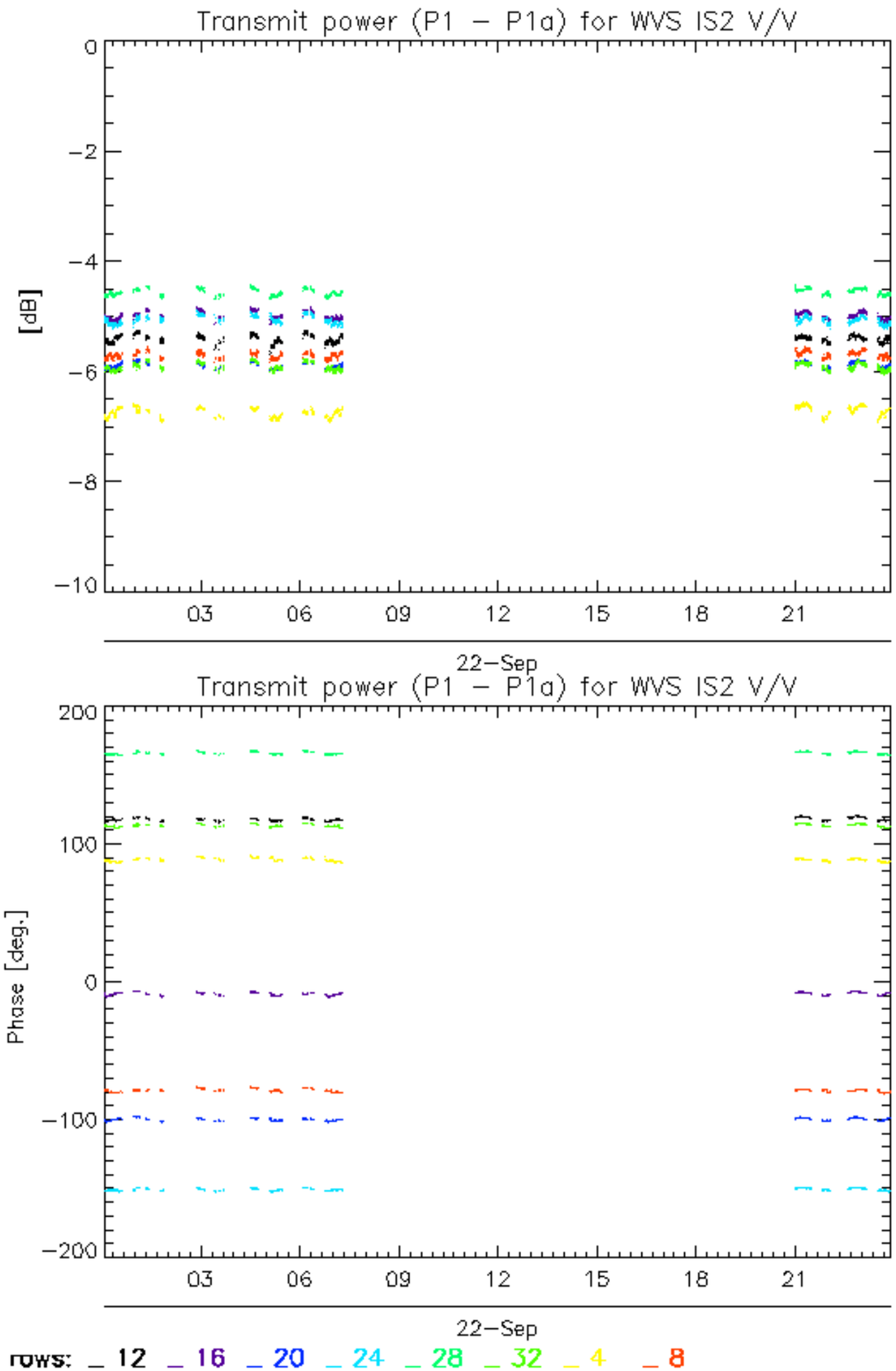

Transmit power (P1 – P1a) for GM1 SS3 H/H
0
−2
−4
−6
−8
−10
[dB]
03
06
09
12
15
18
22−Sep
Transmit power (P1 – P1a) for GM1 SS3 H/H
200
100
0
−100
−200
Phase [deg.]
03
06
09
12
15
18
22−Sep
rows: 11 15 19 23 27 3 31 7

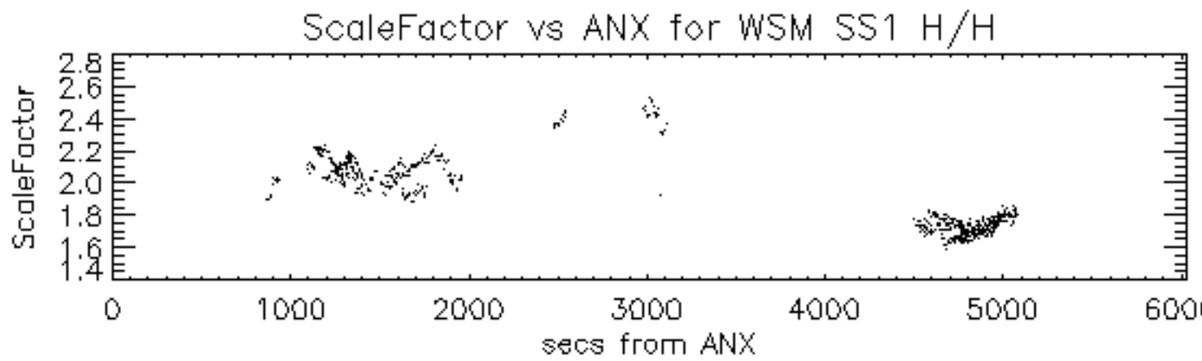

Transmit power (P1 – P1a) for GM1 SS3 H/H
0
−2
−4
−6
−8
−10
[dB]
03
06
09
12
15
18
22−Sep
Transmit power (P1 – P1a) for GM1 SS3 H/H
200
100
0
−100
−200
Phase [deg.]
03
06
09
12
15
18
22−Sep
rows: 12 16 20 24 28 32 4 8

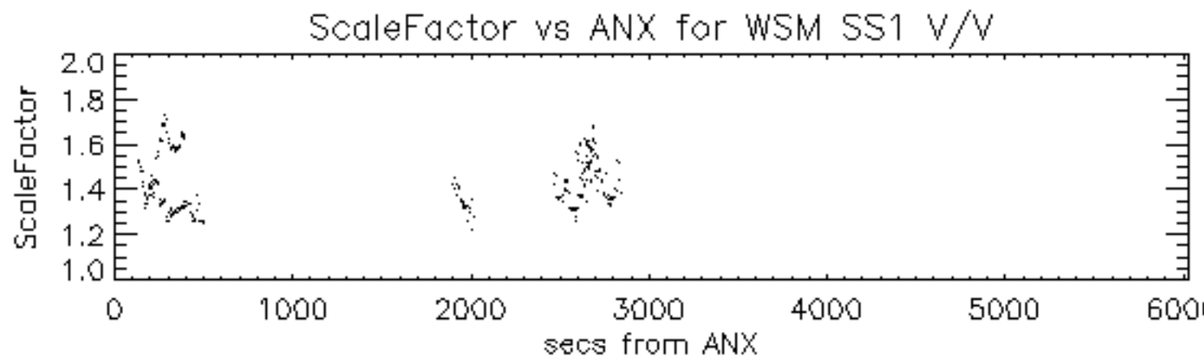

Transmit power (P1 – P1a) for WVS IS2 V/V
0
−2
−4
−6
−8
−10
[dB]
03
06
09
12
15
18
21
22−Sep
Transmit power (P1 – P1a) for WVS IS2 V/V
200
100
0
−100
−200
Phase [deg.]
03
06
09
12
15
18
21
22−Sep
rows: 1 13 17 21 25 29 5 9

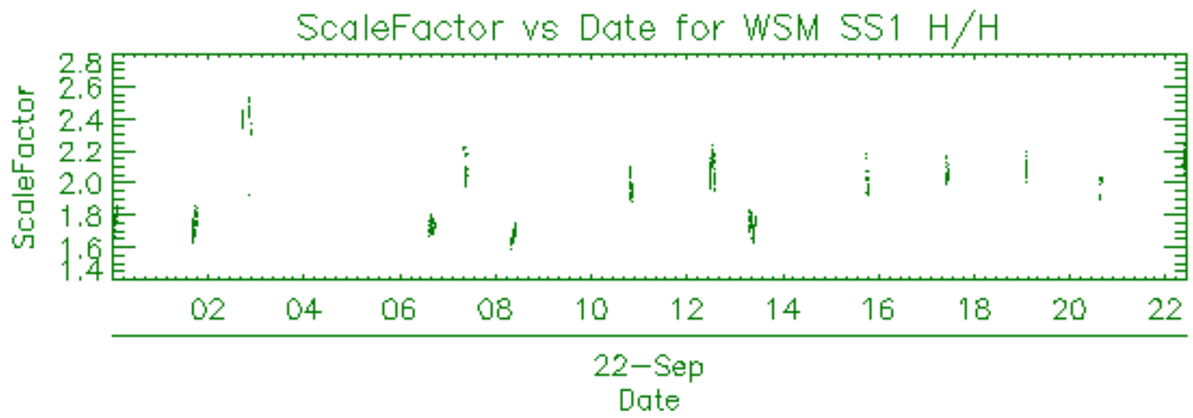

Transmit power (P1 – P1a) for WVS IS2 V/V
0
−2
−4
−6
−8
−10
[dB]
03
06
09
12
15
18
21
22−Sep
Transmit power (P1 – P1a) for WVS IS2 V/V
200
100
0
−100
−200
Phase [deg.]
03
06
09
12
15
18
21
22−Sep
rows: 10 14 18 2 22 26 30 6

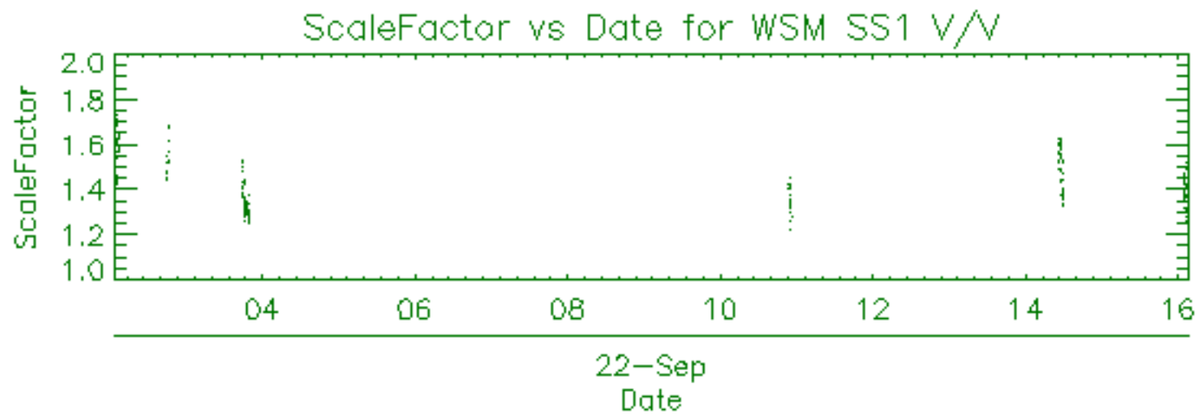

Transmit power (P1 – P1a) for WVS IS2 V/V
0
−2
−4
−6
−8
−10
[dB]
03
06
09
12
15
18
21
22−Sep
Transmit power (P1 – P1a) for WVS IS2 V/V
200
100
0
−100
−200
Phase [deg.]
03
06
09
12
15
18
21
22−Sep
rows: 11 15 19 23 27 3 31 7


Transmit power (P1 – P1a) for WVS IS2 V/V
0
−2
−4
−6
−8
−10
[dB]
03
06
09
12
15
18
21
22−Sep
Transmit power (P1 – P1a) for WVS IS2 V/V
200
100
0
−100
−200
Phase [deg.]
03
06
09
12
15
18
21
22−Sep
rows: 12 16 20 24 28 32 4 8


ScaleFactor vs ANX for WSM SS1 H/H
ScaleFactor
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
0
1000
2000
3000
4000
5000
6000
secs from ANX


ScaleFactor vs ANX for WSM SS1 V/V
ScaleFactor
2.0
1.8
1.6
1.4
1.2
1.0
0
1000
2000
3000
4000
5000
6000
secs from ANX


ScaleFactor vs Date for WSM SS1 H/H
ScaleFactor
2.8
2.6
2.4
2.2
2.0
1.8
1.6
02
04
06
08
10
12
14
16
18
20
22
22-Sep
Date


ScaleFactor vs Date for WSM SS1 V/V
ScaleFactor
2.0
1.8
1.6
1.4
1.2
1.0
04
06
08
10
12
14
16
22-Sep
Date

Filename	Beam	Pol	CycleNumber	absOrbit	relOrbit	procVersion
ASA_APM_1PNPDE20110922_024726_000000873106_00420_50003_3355.N1	IS4	H/H	106	50003	420	5.04

Filename	Beam	Pol	CycleNumber	absOrbit	relOrbit	procVersion					
ASA_GM1_1PNPDE20110922_004419_000006283106_00419_50002_3334.N1	SS1	H/H	106	50002	419	5.04					
ASA_GM1_1PNPDE20110922_005613_000000903106_00419_50002_3336.N1	SS1	H/H	106	50002	419	5.04					
ASA_GM1_1PNPDE20110922_011046_000001873106_00419_50002_3337.N1	SS1	H/H	106	50002	419	5.04					
ASA_GM1_1PNPDE20110922_011455_000003563106_00419_50002_3340.N1	SS1	H/H	106	50002	419	5.04					
ASA_GM1_1PNPDE20110922_012625_000007553106_00419_50002_3348.N1	SS1	H/H	106	50002	419	5.04					
ASA_GM1_1PNPDE20110922_015230_000006283106_00419_50002_3357.N1	SS1	H/H	106	50002	419	5.04					
ASA_GM1_1PNPDE20110922_020801_000008283106_00420_50003_3358.N1	SS1	H/H	106	50003	420	5.04					
ASA_GM1_1PNPDE20110922_023128_000006283106_00420_50003_3363.N1	SS1	H/H	106	50003	420	5.04					
ASA_GM1_1PNPDE20110922_035004_000017703106_00421_50004_3401.N1	SS1	H/H	106	50004	421	5.04					
ASA_GM1_1PNPDE20110922_042300_000000723106_00421_50004_3404.N1	SS1	H/H	106	50004	421	5.04					
ASA_GM1_1PNPDK20110922_062952_000004283106_00422_50005_3226.N1	SS1	H/H	106	50005	422	5.04					
ASA_GM1_1PNPDK20110922_064345_000001383106_00422_50005_3225.N1	SS1	H/H	106	50005	422	5.04					
ASA_GM1_1PNPDK20110922_071808_000001503106_00423_50006_3229.N1	SS1	H/H	106	50006	423	5.04					
ASA_GM1_1PNPDK20110922_072416_000003983106_00423_50006_3228.N1	SS1	H/H	106	50006	423	5.04					
ASA_GM1_1PNPDK20110922_104610_000000603106_00425_50008_3269.N1	SS1	H/H	106	50008	425	5.04					
ASA_GM1_1PNPDK20110922_122633_000000843106_00426_50009_3283.N1	SS1	H/H	106	50009	426	5.04					
ASA_GM1_1PNPDK20110922_154331_000000843106_00428_50011_3321.N1	SS1	H/H	106	50011	428	5.04					
ASA_GM1_1PNPDK20110922_172301_000000843106_00429_50012_3346.N1	SS1	H/H	106	50012	429	5.04					
ASA_GM1_1PNPDK20110922_203632_000000843106_00431_50014_3380.N1	SS1	H/H	106	50014	431	5.04					

Filename	Beam	Pol	CycleNumber	absOrbit	relOrbit	procVersion
ASA_IMM_1PNPDE20110922_010018_000000973106_00419_50002_3332.N1	IS6	H/H	106	50002	419	5.04
ASA_IMM_1PNPDE20110922_033039_000000523106_00420_50003_3390.N1	IS6	H/H	106	50003	420	5.04
ASA_IMM_1PNPDK20110922_055014_000002273106_00422_50005_3127.N1	IS6	H/H	106	50005	422	5.04
ASA_IMM_1PNPDK20110922_105650_000000823106_00425_50008_3285.N1	IS6	H/H	106	50008	425	5.04
ASA_IMM_1PNPDK20110922_134953_000000513106_00427_50010_3306.N1	IS1	V/V	106	50010	427	5.04

```
Filename     Pol    Timestamp    count(Module)
 ASA_MS__0PNPDE20110922_044820_000000163106_00421_50004_0389.N1  H      2011-09-22 04:48:20 320
 ASA_MS__0PNPDE20110922_231054_000000163107_00001_50015_0390.N1  H      2011-09-22 23:10:54 320
```

Filename	Beam	Pol	CycleNumber	absOrbit	relOrbit	procVersion				
ASA_WSM_1PNPDE20110921_235904_000003923106_00418_50001_3295.N1	SS1	H/H	106	50001	418	5.04				
ASA_WSM_1PNPDE20110922_013904_000003923106_00419_50002_3345.N1	SS1	H/H	106	50002	419	5.04				
ASA_WSM_1PNPDK20110922_020327_000002693106_00420_50003_3092.N1	SS1	V/V	106	50003	420	5.04				
ASA_WSM_1PNPDE20110922_024218_000000923106_00420_50003_3353.N1	SS1	H/H	106	50003	420	5.04				
ASA_WSM_1PNPDE20110922_024440_000000923106_00420_50003_3354.N1	SS1	V/V	106	50003	420	5.04				
ASA_WSM_1PNPDE20110922_025046_000001533106_00420_50003_3356.N1	SS1	H/H	106	50003	420	5.04				
ASA_WSM_1PNPDK20110922_034329_000003923106_00421_50004_3116.N1	SS1	V/V	106	50004	421	5.04				
ASA_WSM_1PNPDK20110922_063701_000004043106_00422_50005_3207.N1	SS1	H/H	106	50005	422	5.04				
ASA_WSM_1PNPDK20110922_072042_000002083106_00423_50006_3210.N1	SS1	H/H	106	50006	423	5.04				
ASA_WSM_1PNPDK20110922_081926_000003303106_00423_50006_3239.N1	SS1	H/H	106	50006	423	5.04				
ASA_WSM_1PNPDK20110922_104720_000002753106_00425_50008_3290.N1	SS1	H/H	106	50008	425	5.04				
ASA_WSM_1PNPDK20110922_105347_000001353106_00425_50008_3286.N1	SS1	V/V	106	50008	425	5.04				
ASA_WSM_1PNPDK20110922_122804_000004533106_00426_50009_3277.N1	SS1	H/H	106	50009	426	5.04				
ASA_WSM_1PNPDK20110922_131725_000005143106_00426_50009_3298.N1	SS1	H/H	106	50009	426	5.04				
ASA_WSM_1PNPDK20110922_142555_000002693106_00427_50010_3320.N1	SS1	V/V	106	50010	427	5.04				
ASA_WSM_1PNPDK20110922_154502_000001843106_00428_50011_3324.N1	SS1	H/H	106	50011	428	5.04				
ASA_WSM_1PNPDK20110922_160401_000002693106_00428_50011_3341.N1	SS1	V/V	106	50011	428	5.04				
ASA_WSM_1PNPDK20110922_172432_000001533106_00429_50012_3349.N1	SS1	H/H	106	50012	429	5.04				
ASA_WSM_1PNPDK20110922_190412_000001533106_00430_50013_3363.N1	SS1	H/H	106	50013	430	5.04				
ASA_WSM_1PNPDK20110922_203803_000000923106_00431_50014_3379.N1	SS1	H/H	106	50014	431	5.04				
ASA_WSM_1PNPDK20110922_222154_000002693107_00001_50015_3400.N1	SS1	H/H	107	50015	1	5.04				

Filename	Beam	Pol	CycleNumber	absOrbit	relOrbit	procVersion
ASA_WVS_1PNPDE20110922_000536_000002853106_00418_50001_3302.N1	IS2	V/V	106	50001	418	5.04
ASA_WVS_1PNPDE20110922_000936_000016043106_00418_50001_3333.N1	IS2	V/V	106	50001	418	5.04
ASA_WVS_1PNPDE20110922_005748_000001193106_00419_50002_3335.N1	IS2	V/V	106	50002	419	5.04
ASA_WVS_1PNPDE20110922_010202_000004823106_00419_50002_3338.N1	IS2	V/V	106	50002	419	5.04
ASA_WVS_1PNPDE20110922_012055_000002853106_00419_50002_3339.N1	IS2	V/V	106	50002	419	5.04
ASA_WVS_1PNPDE20110922_014536_000001043106_00419_50002_3346.N1	IS2	V/V	106	50002	419	5.04
ASA_WVS_1PNPDE20110922_014621_000003303106_00419_50002_3360.N1	IS2	V/V	106	50002	419	5.04
ASA_WVS_1PNPDE20110922_014536_000001043106_00419_50002_3346.N1	IS1	V/V	106	50002	419	5.04
ASA_WVS_1PNPDE20110922_025315_000004643106_00420_50003_3362.N1	IS2	V/V	106	50003	420	5.04
ASA_WVS_1PNPDE20110922_030030_000003303106_00420_50003_3396.N1	IS2	V/V	106	50003	420	5.04
ASA_WVS_1PNPDE20110922_032530_000000603106_00420_50003_3394.N1	IS2	V/V	106	50003	420	5.04
ASA_WVS_1PNPDE20110922_033311_000001493106_00420_50003_3399.N1	IS2	V/V	106	50003	420	5.04
ASA_WVS_1PNPDE20110922_034129_000000743106_00421_50004_3402.N1	IS2	V/V	106	50004	421	5.04
ASA_WVS_1PNPDE20110922_043035_000006743106_00421_50004_3403.N1	IS2	V/V	106	50004	421	5.04
ASA_WVS_1PNPDE20110922_044135_000001353106_00421_50004_3430.N1	IS2	V/V	106	50004	421	5.04
ASA_WVS_1PNPDE20110922_050553_000012893106_00421_50004_3443.N1	IS2	V/V	106	50004	421	5.04
ASA_WVS_1PNPDE20110922_060625_000005093106_00422_50005_3442.N1	IS2	V/V	106	50005	422	5.04
ASA_WVS_1PNPDE20110922_061950_000001653106_00422_50005_3441.N1	IS2	V/V	106	50005	422	5.04
ASA_WVS_1PNPDK20110922_062205_000002553106_00422_50005_3224.N1	IS2	V/V	106	50005	422	5.04
ASA_WVS_1PNPDK20110922_062206_000000003106_00422_50005_3143.N1	IS1	H/H	106	50005	422	5.04
ASA_WVS_1PNPDK20110922_062221_000000003106_00422_50005_3145.N1	IS1	H/H	106	50005	422	5.04
ASA_WVS_1PNPDK20110922_062235_000001053106_00422_50005_3144.N1	IS2	V/V	106	50005	422	5.04
ASA_WVS_1PNPDK20110922_062235_000001053106_00422_50005_3144.N1	IS1	V/V	106	50005	422	5.04
ASA_WVS_1PNPDK20110922_062435_000000753106_00422_50005_3147.N1	IS2	V/V	106	50005	422	5.04
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ASA_WVS_1PNPDK20110922_062621_000000003106_00422_50005_3161.N1	IS1	H/H	106	50005	422	5.04
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ASA_WVS_1PNPDE20110922_205911_000017543106_00431_50014_3495.N1	IS2	V/V	106	50014	431	5.04
ASA_WVS_1PNPDE20110922_214840_000001803106_00431_50014_3496.N1	IS2	V/V	106	50014	431	5.04
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ASA_WVS_1PNPDE20110922_215602_000005093106_00431_50014_3508.N1	IS2	V/V	106	50014	431	5.04
ASA_WVS_1PNPDE20110922_223634_000019343107_00001_50015_3517.N1	IS2	V/V	107	50015	1	5.04
ASA_WVS_1PNPDE20110922_232854_000001653107_00001_50015_3518.N1	IS2	V/V	107	50015	1	5.04
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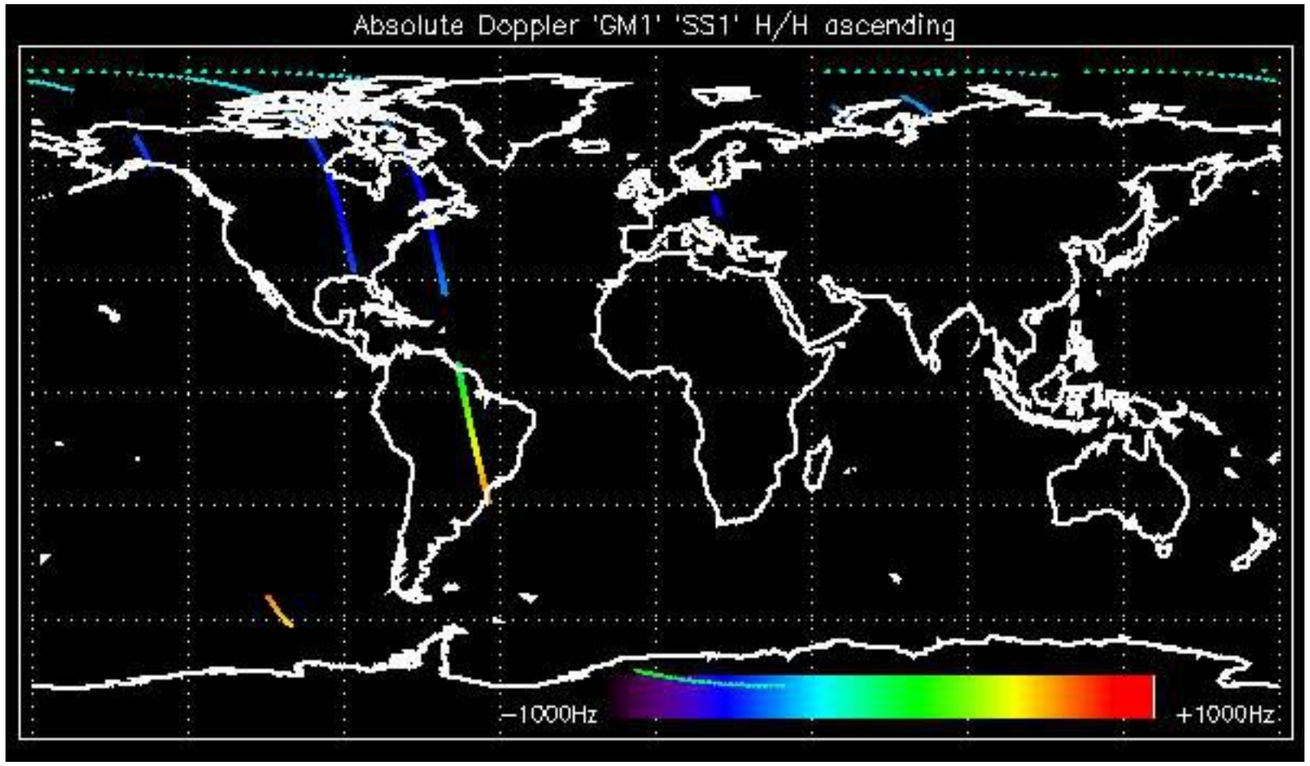
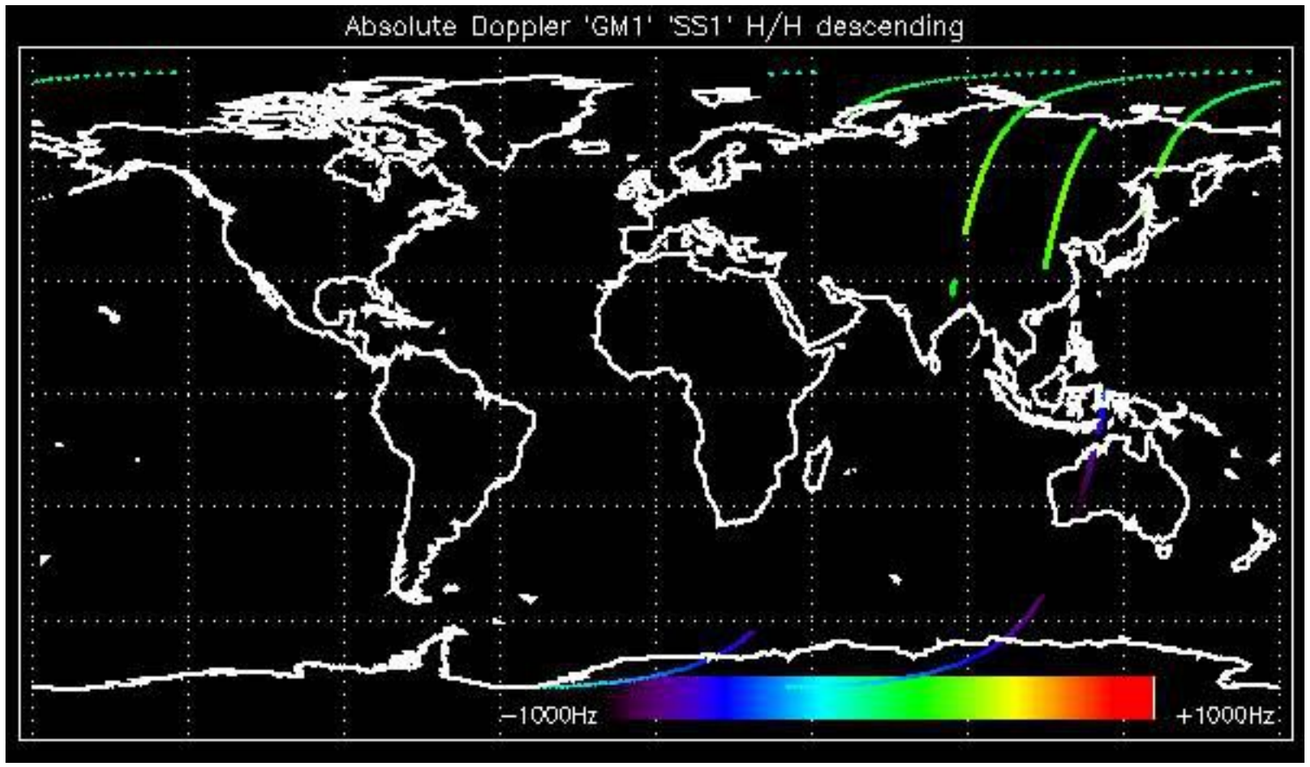
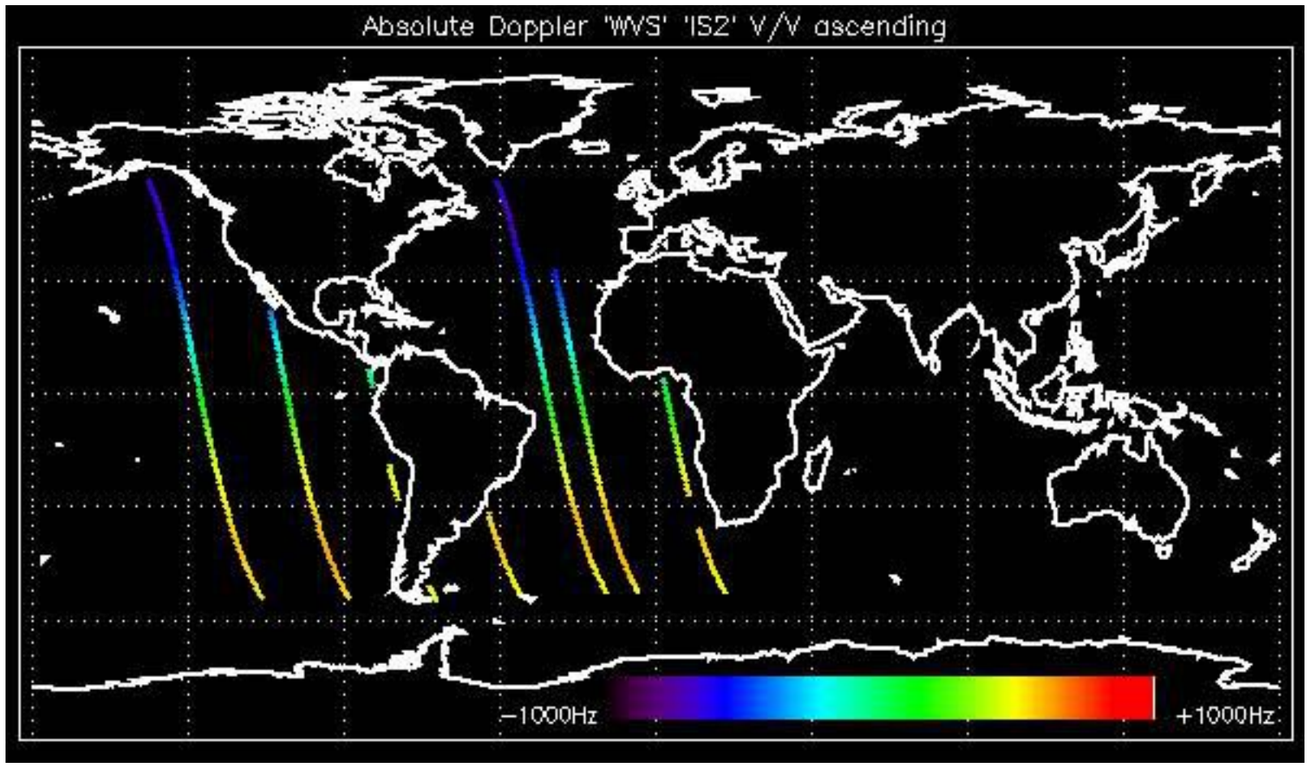
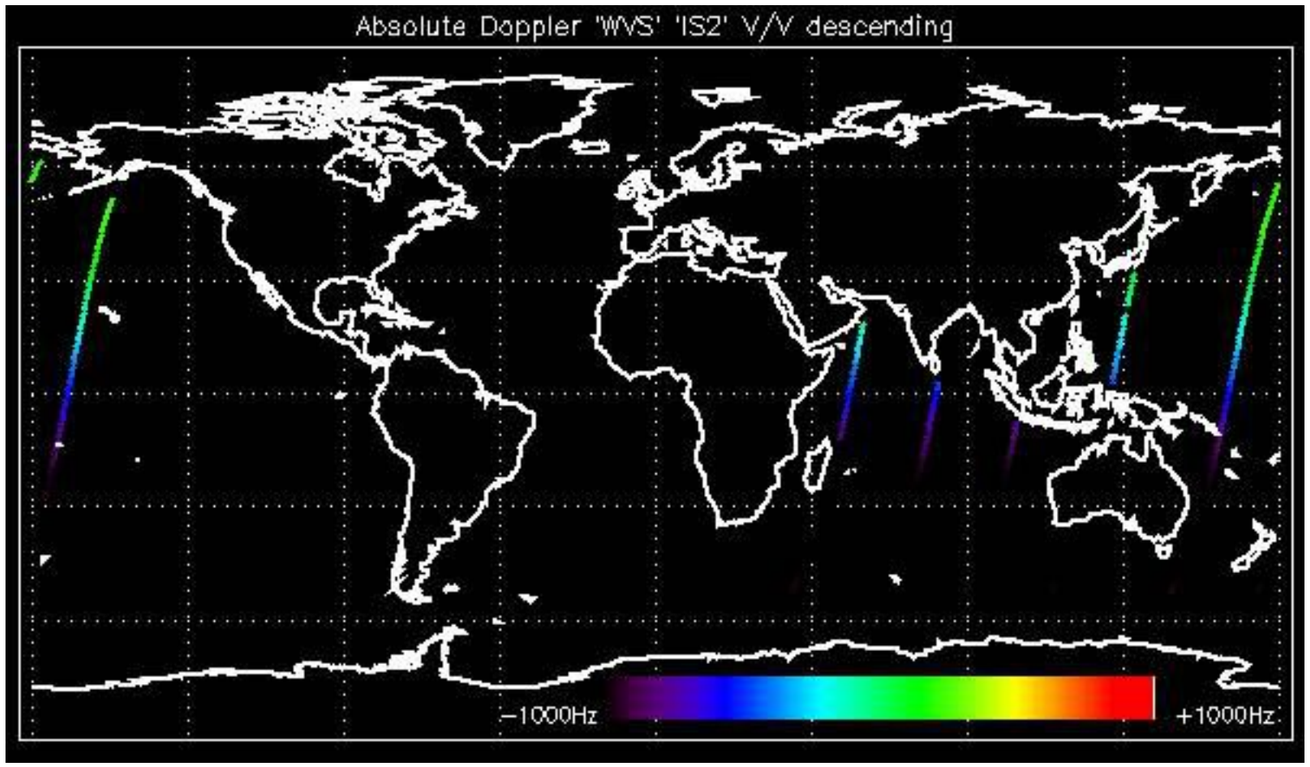
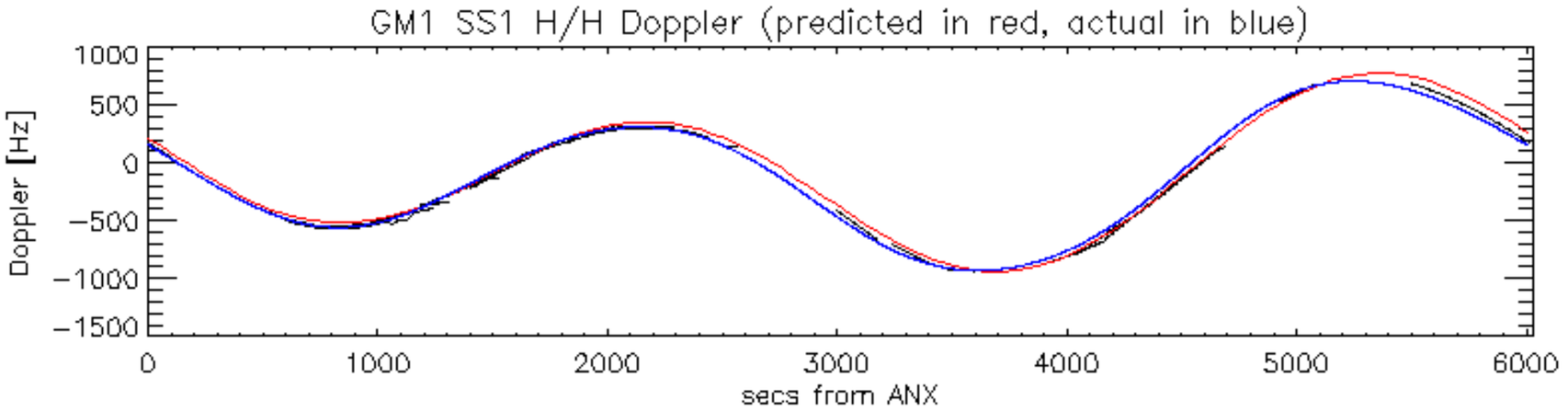
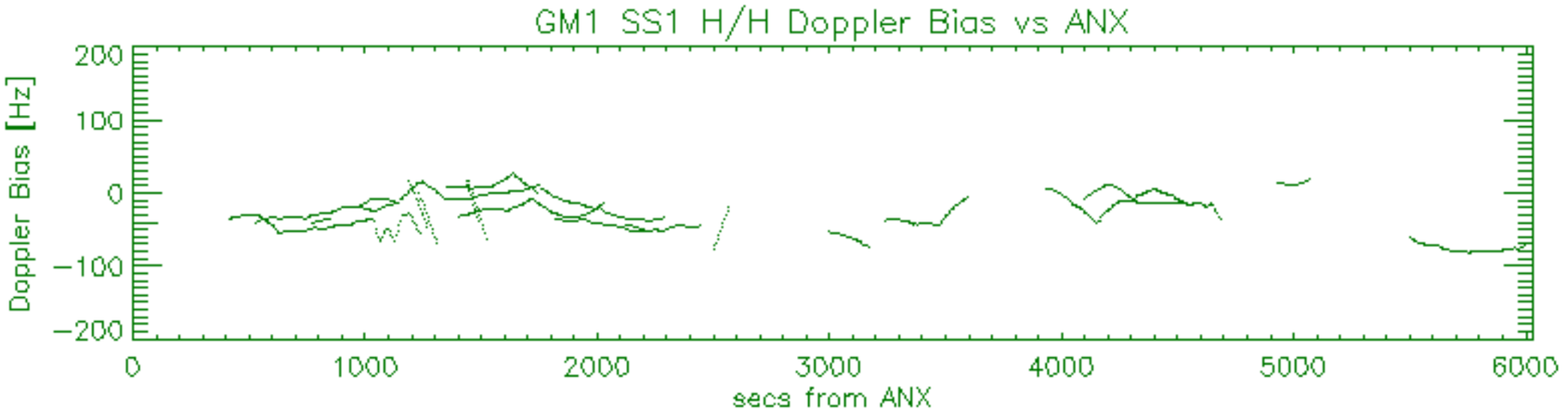

Absolute Doppler 'GM1' 'SS1' H/H ascending
−1000Hz
+1000Hz

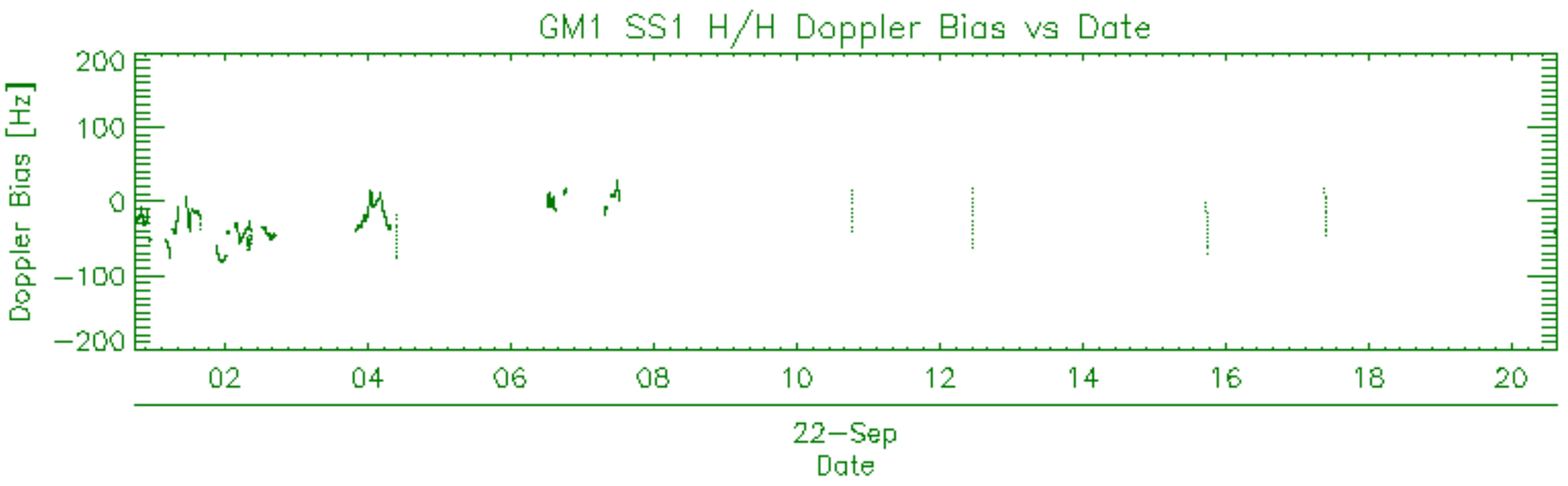

Absolute Doppler 'GM1' 'SS1' H/H descending
−1000Hz
+1000Hz

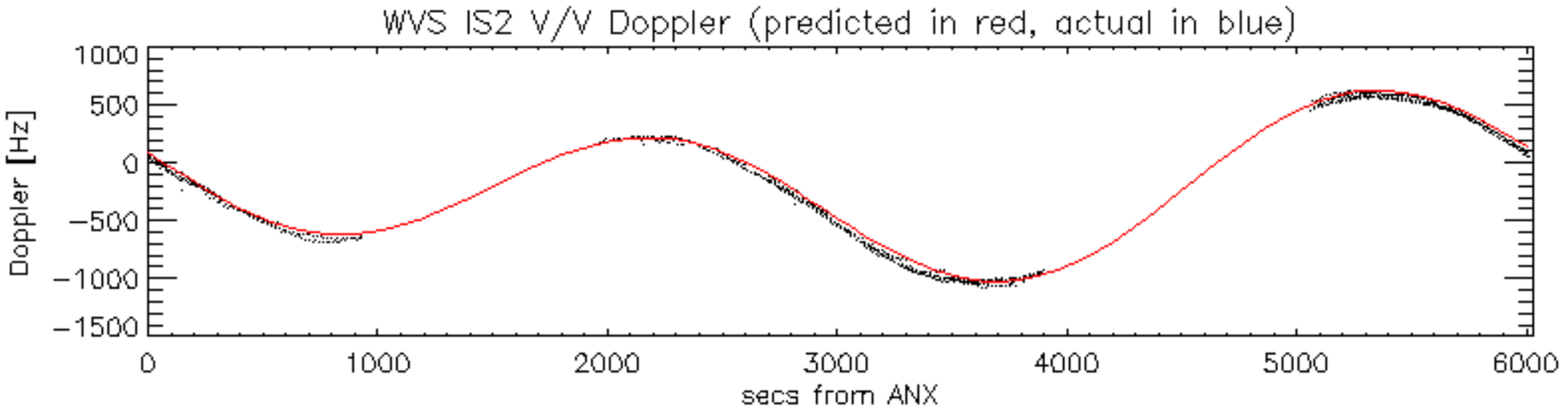

Absolute Doppler 'WVS' 'IS2' V/V ascending
−1000Hz
+1000Hz

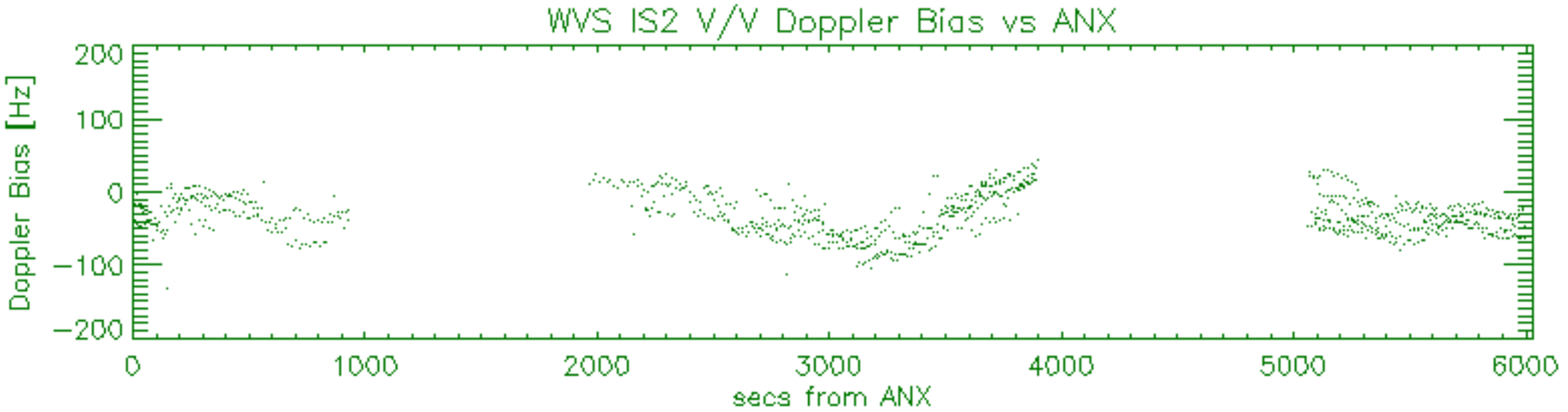

Absolute Doppler 'WVS' 'IS2' V/V descending
−1000Hz
+1000Hz

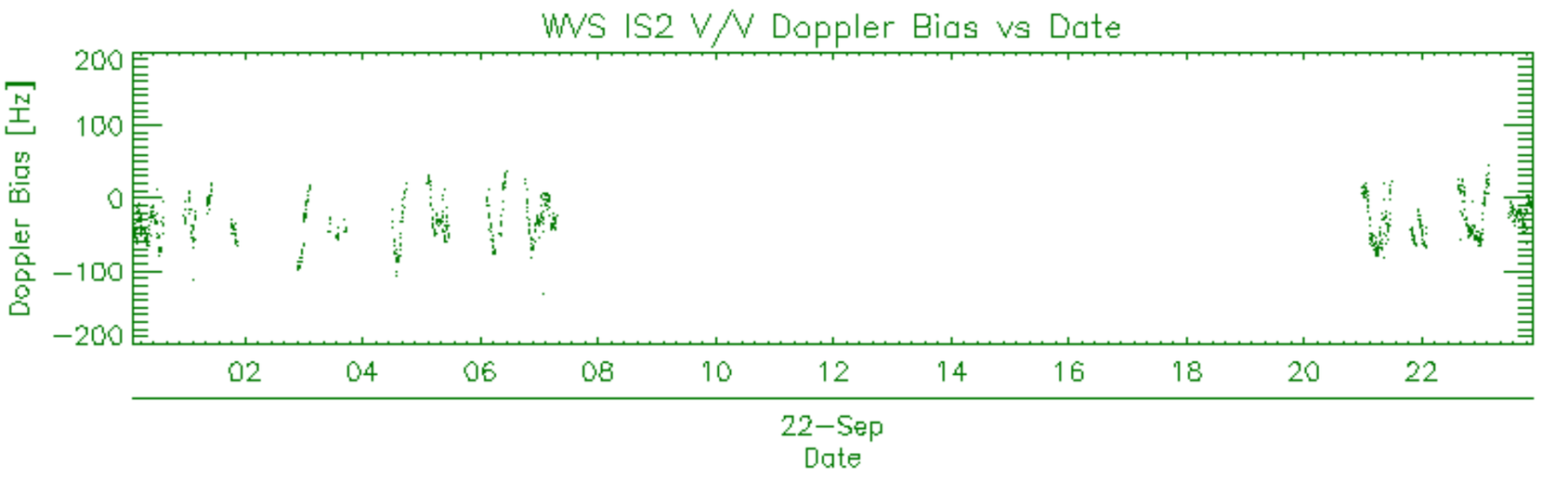

GM1 SS1 H/H Doppler (predicted in red, actual in blue)
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

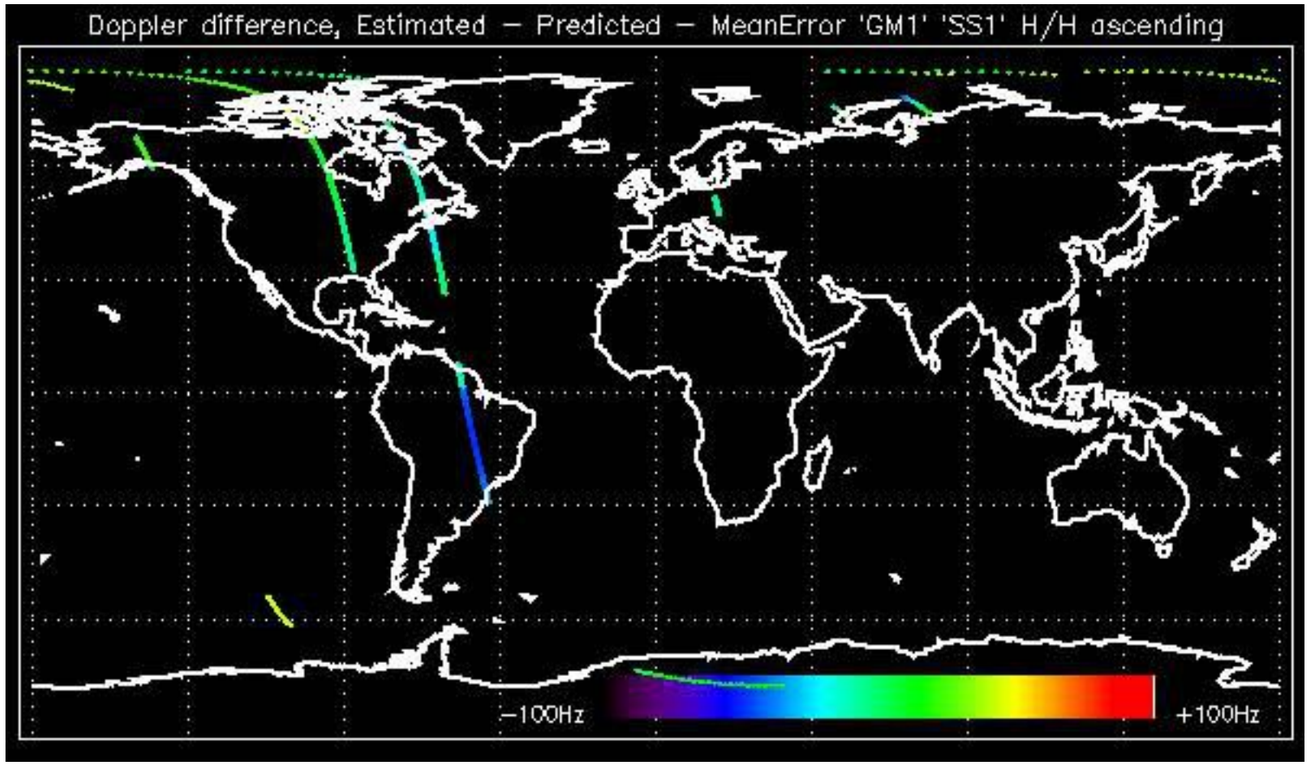

GM1 SS1 H/H Doppler Bias vs ANX
Doppler Bias [Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

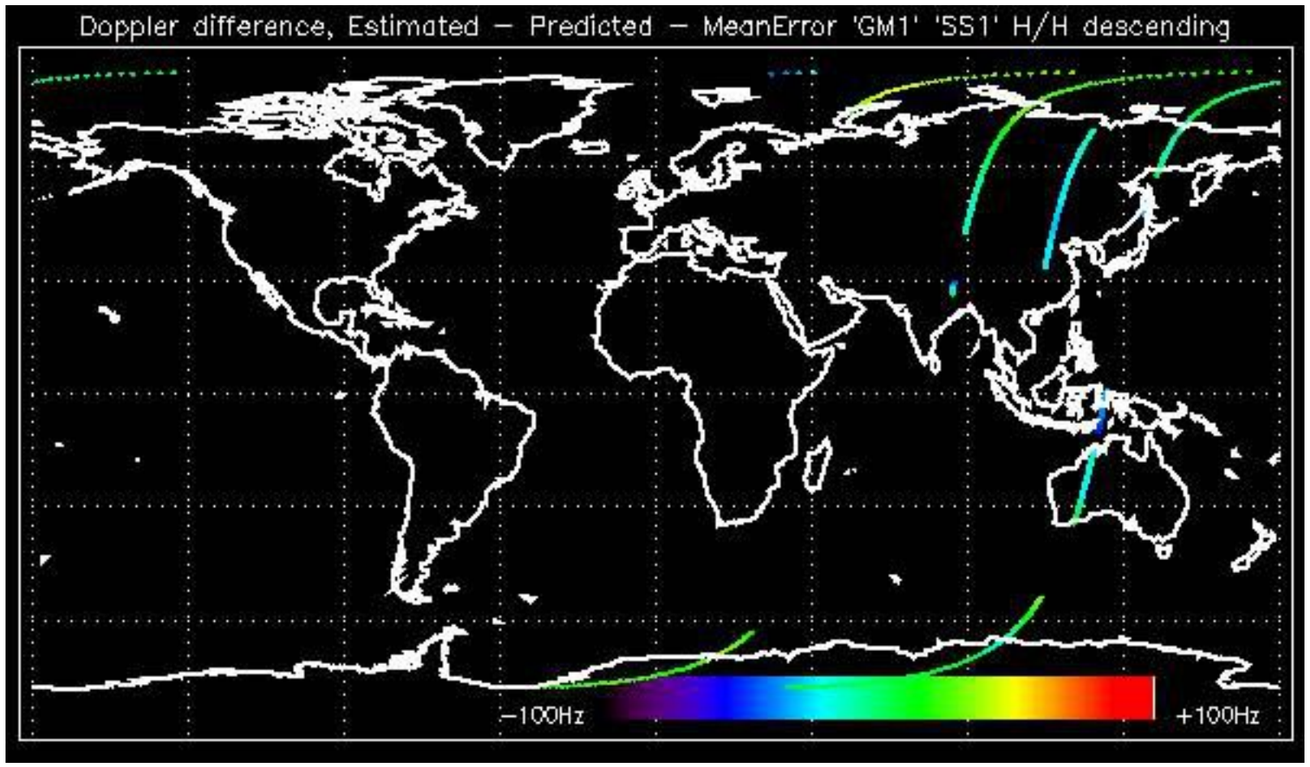

GM1 SS1 H/H Doppler Bias vs Date
Doppler Bias [Hz]
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22−Sep
Date

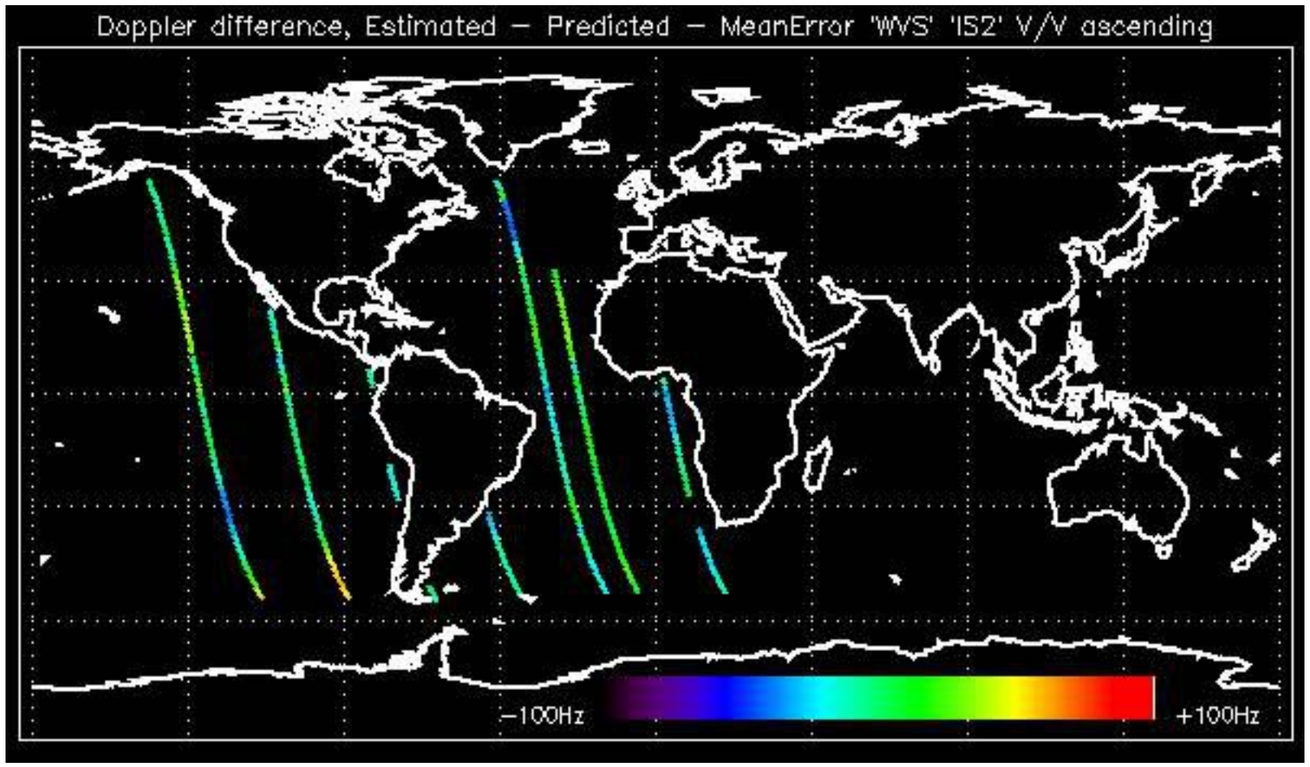

WVS IS2 V/V Doppler (predicted in red, actual in blue)
Doppler [Hz]
1000
500
0
−500
−1000
−1500
0
1000
2000
3000
4000
5000
6000
secs from ANX

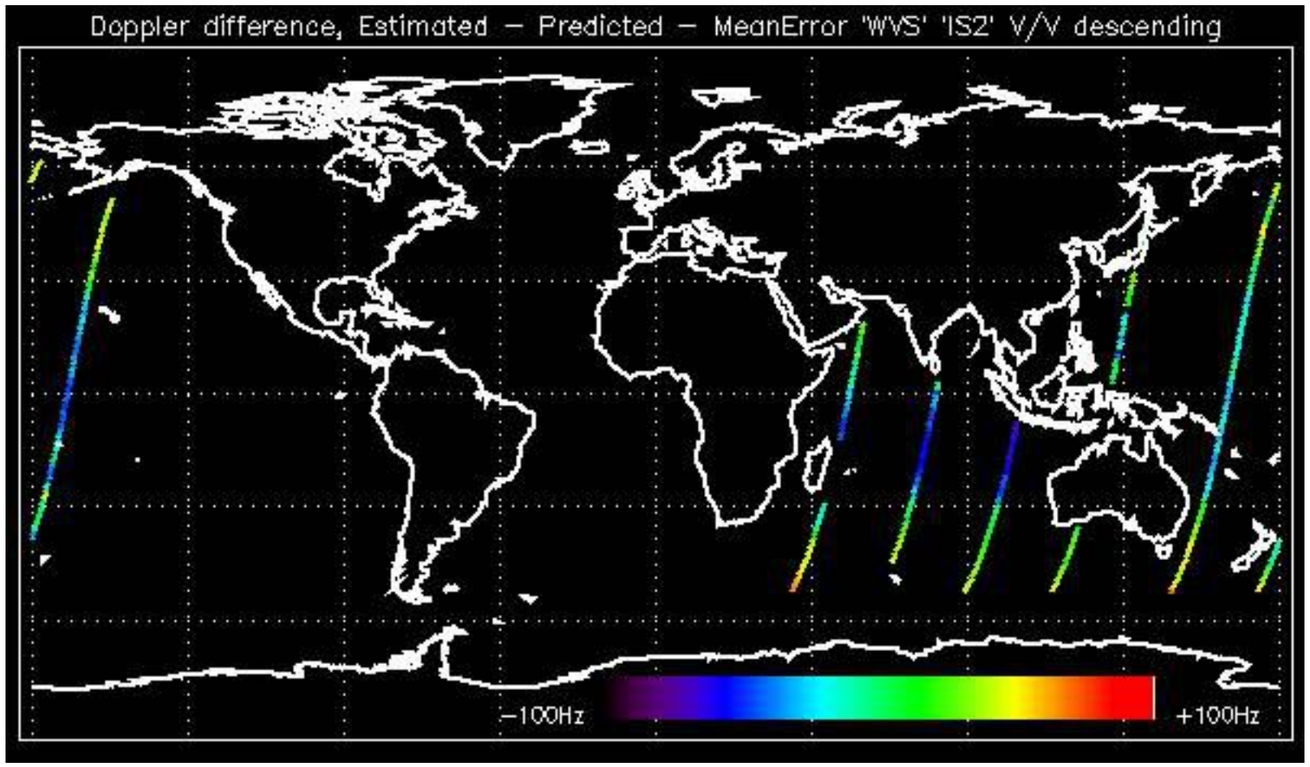

WVS IS2 V/V Doppler Bias vs ANX
Doppler Bias [Hz]
200
100
0
−100
−200
0
1000
2000
3000
4000
5000
6000
secs from ANX

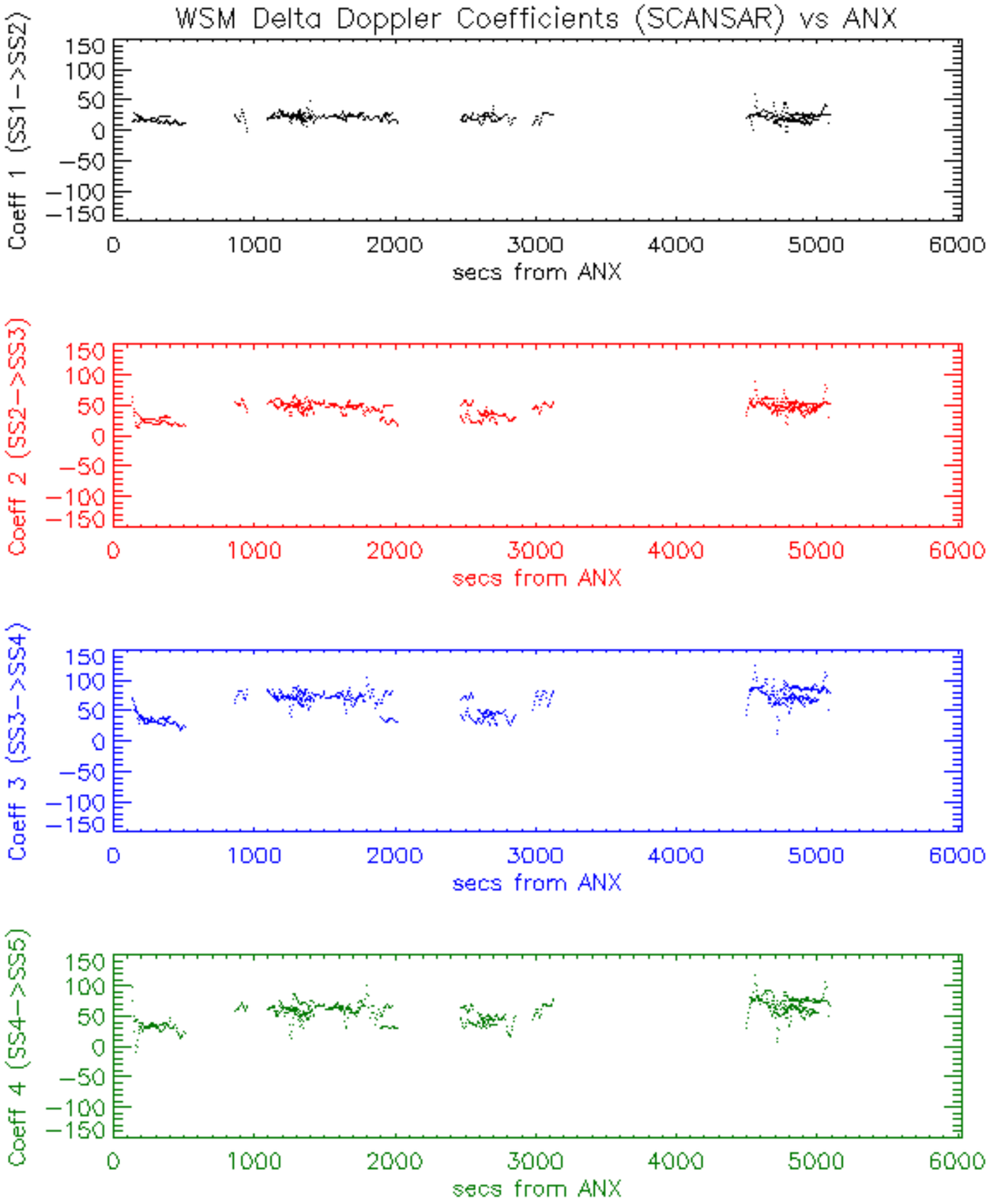

WVS IS2 V/V Doppler Bias vs Date
Doppler Bias [Hz]
200
100
0
−100
−200
02
04
06
08
10
12
14
16
18
20
22
22−Sep
Date

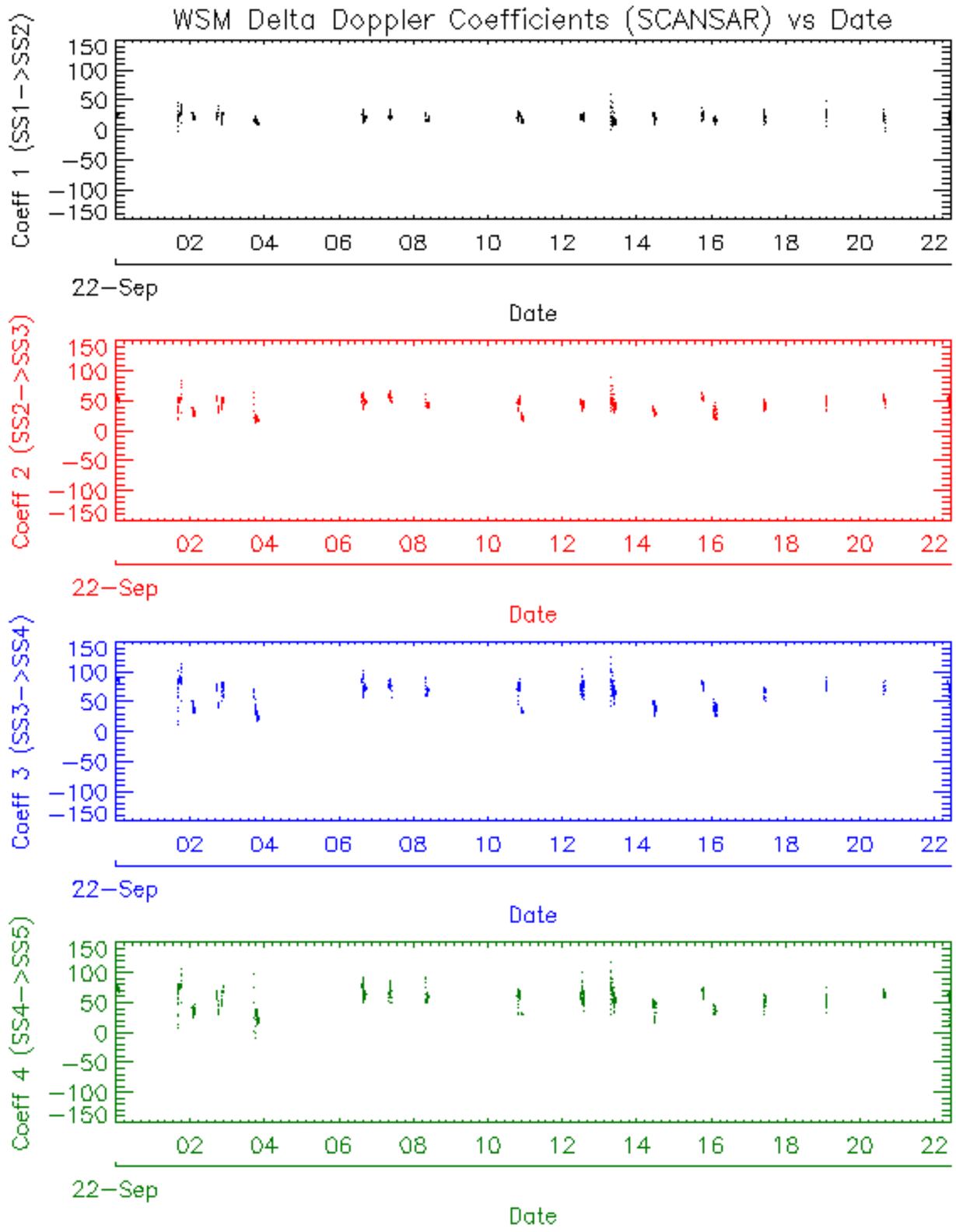

Doppler difference, Estimated – Predicted – MeanError 'GM1' 'SS1' H/H ascending
−100Hz
+100Hz

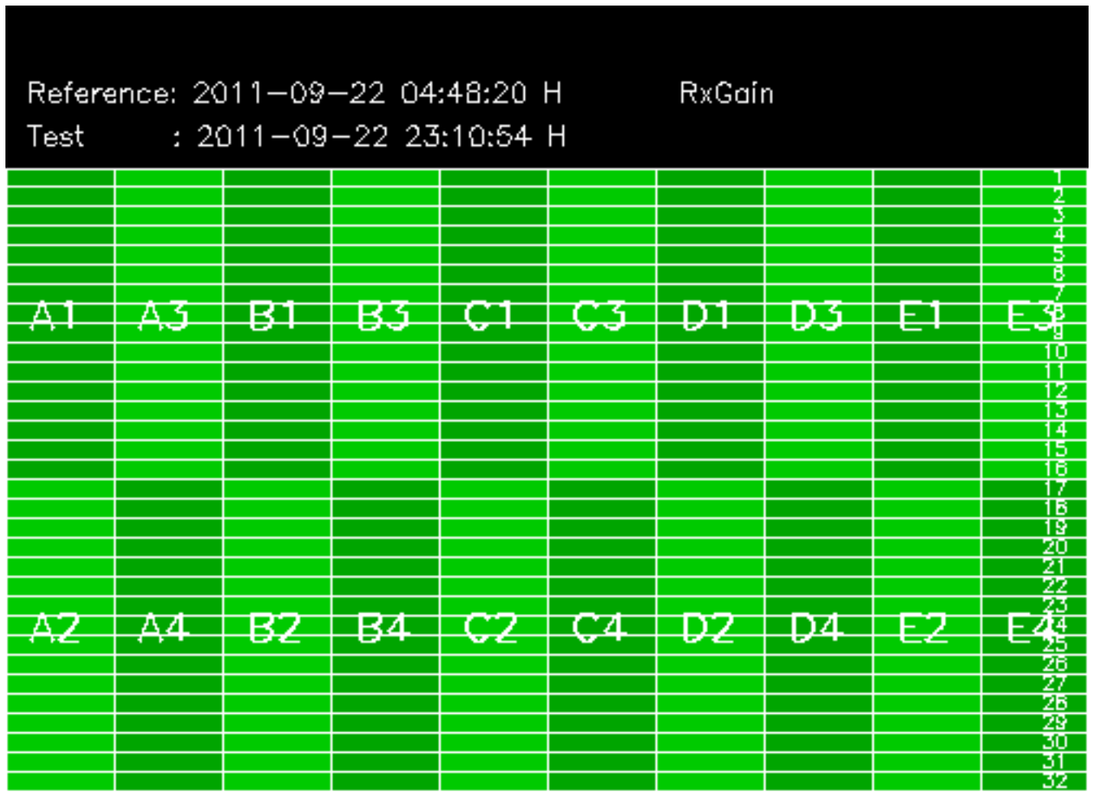

Doppler difference, Estimated – Predicted – MeanError 'GM1' 'SS1' H/H descending
−100Hz
+100Hz


Doppler difference, Estimated – Predicted – MeanError 'WVS' 'IS2' V/V ascending
−100Hz
+100Hz


Doppler difference, Estimated – Predicted – MeanError 'WVS' 'IS2' V/V descending
−100Hz
+100Hz


WSM Delta Doppler Coefficients (SCANSAR) vs ANX
Coeff 1 (SS1->SS2)
Coeff 2 (SS2->SS3)
Coeff 3 (SS3->SS4)
Coeff 4 (SS4->SS5)
150
100
50
0
−50
−100
−150
0
1000
2000
3000
4000
5000
6000
secs from ANX


WSM Delta Doppler Coefficients (SCANSAR) vs Date
Coeff 1 (SS1->SS2)
150
100
50
0
-50
-100
-150
02
04
06
08
10
12
14
16
18
20
22
22-Sep
Date
Coeff 2 (SS2->SS3)
150
100
50
0
-50
-100
-150
02
04
06
08
10
12
14
16
18
20
22
22-Sep
Date
Coeff 3 (SS3->SS4)
150
100
50
0
-50
-100
-150
02
04
06
08
10
12
14
16
18
20
22
22-Sep
Date
Coeff 4 (SS4->SS5)
150
100
50
0
-50
-100
-150
02
04
06
08
10
12
14
16
18
20
22
22-Sep
Date


Reference: 2011-09-22 04:48:20 H
Test : 2011-09-22 23:10:54 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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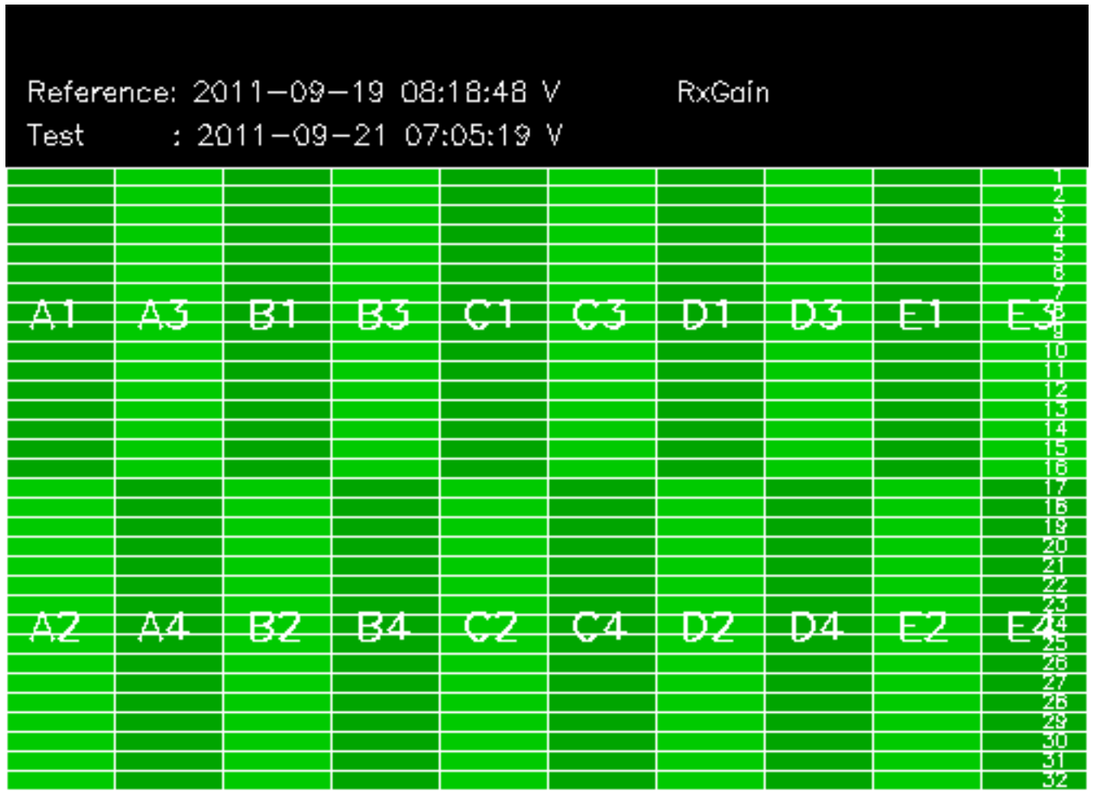
Reference: 2011-09-19 08:18:48 V
Test : 2011-09-21 07:05:19 V
RxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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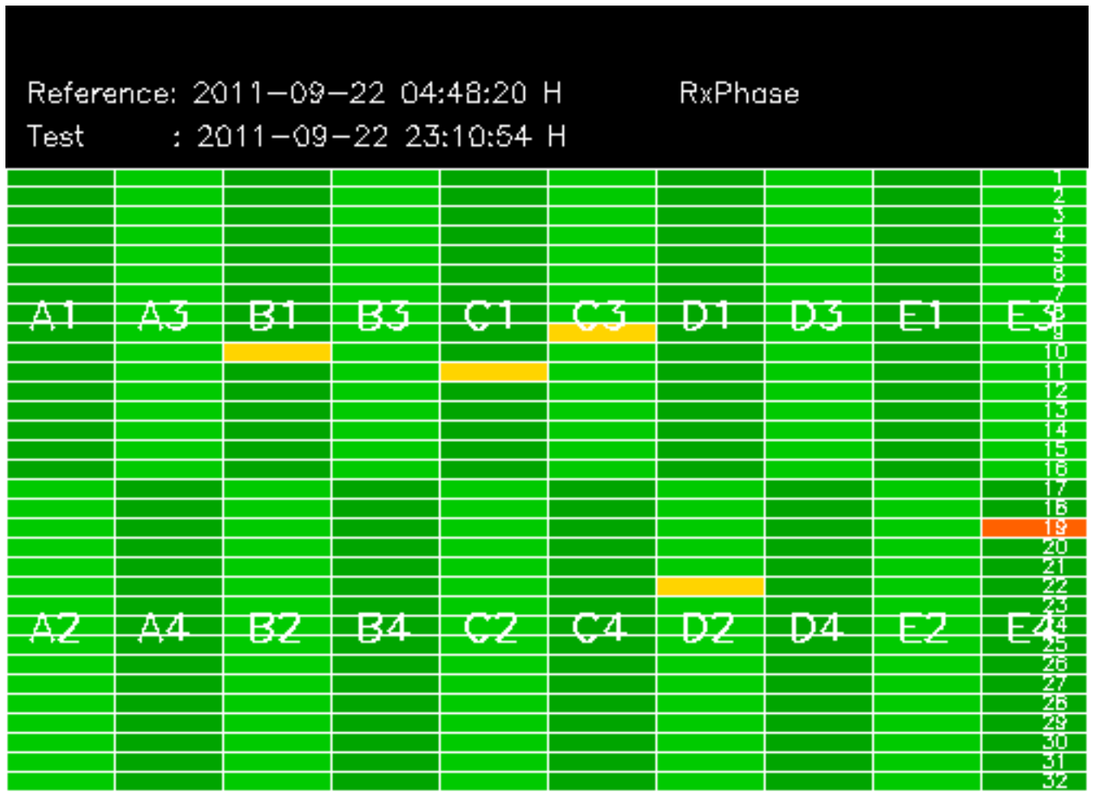
Reference: 2011-09-22 04:48:20 H
Test : 2011-09-22 23:10:54 H
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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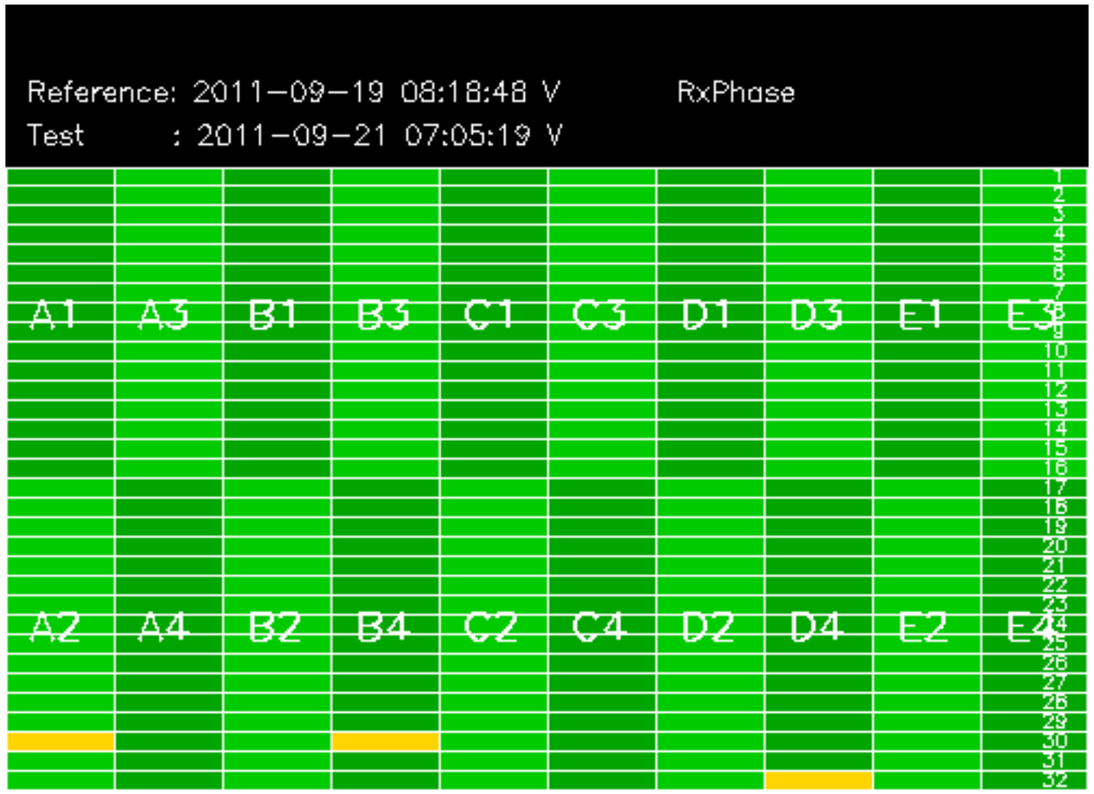
Reference: 2011-09-19 08:18:48 V
Test : 2011-09-21 07:05:19 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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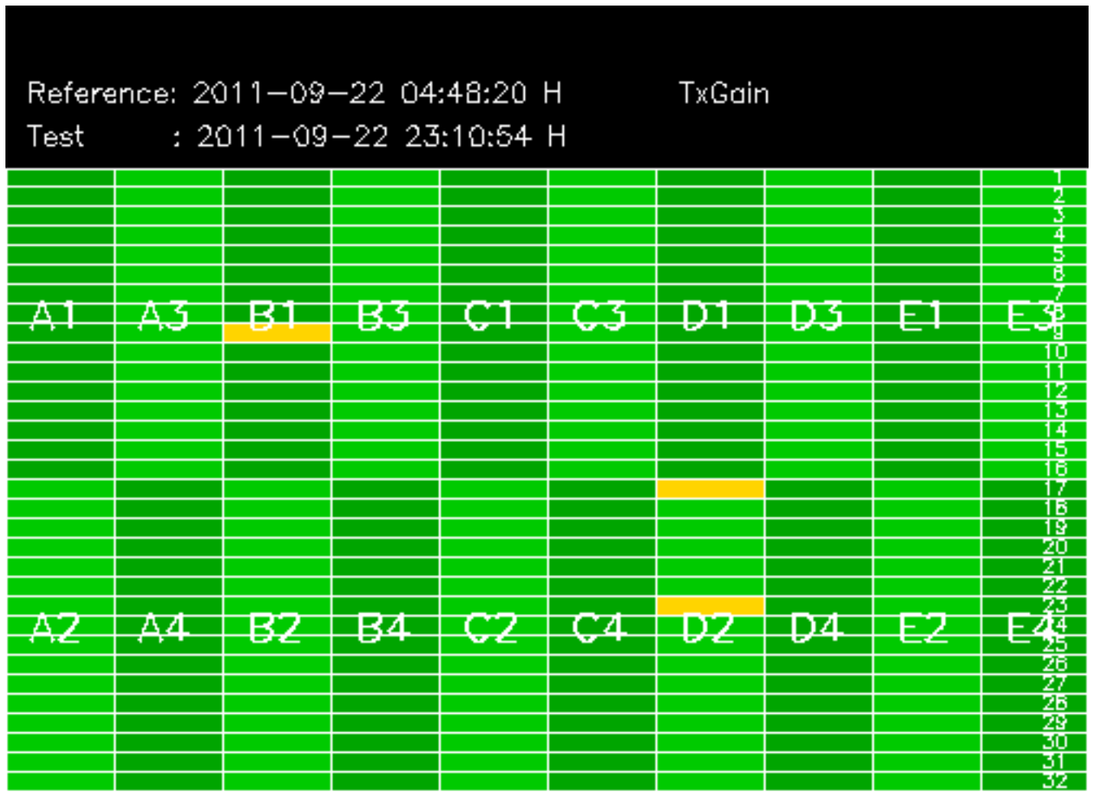
Reference: 2011-09-22 04:48:20 H
Test : 2011-09-22 23:10:54 H
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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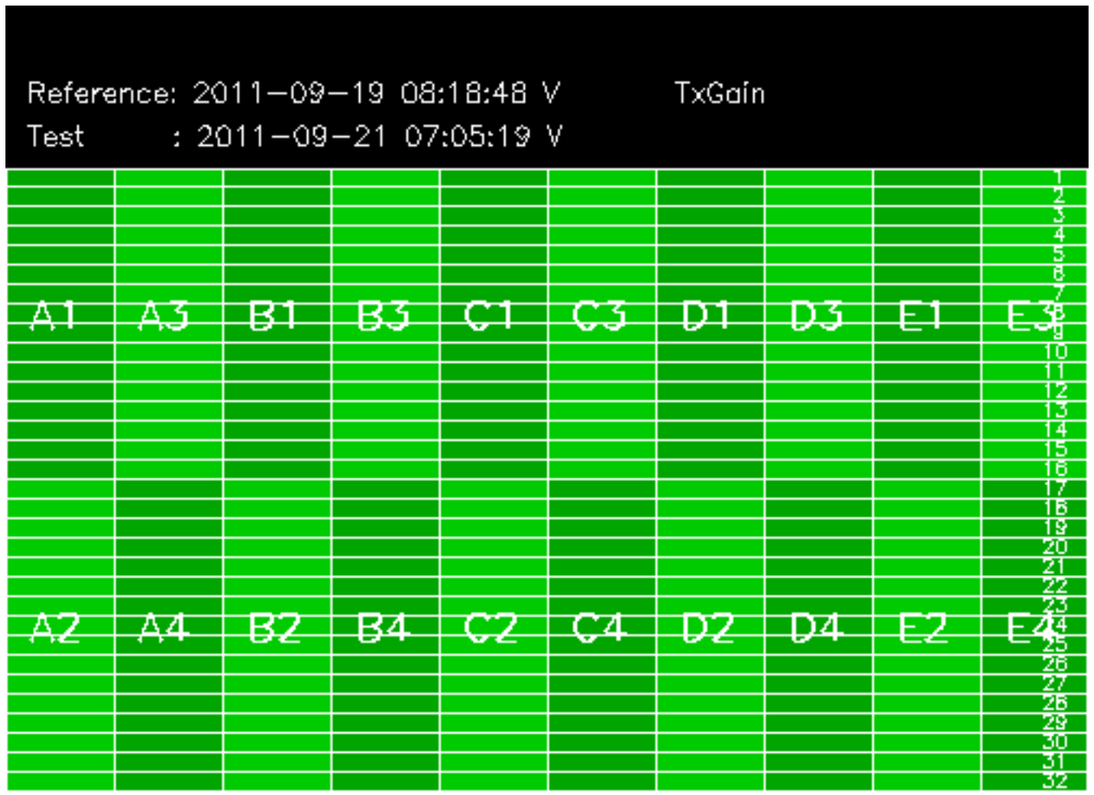
Reference: 2011-09-19 08:18:48 V
Test : 2011-09-21 07:05:19 V
TxGain
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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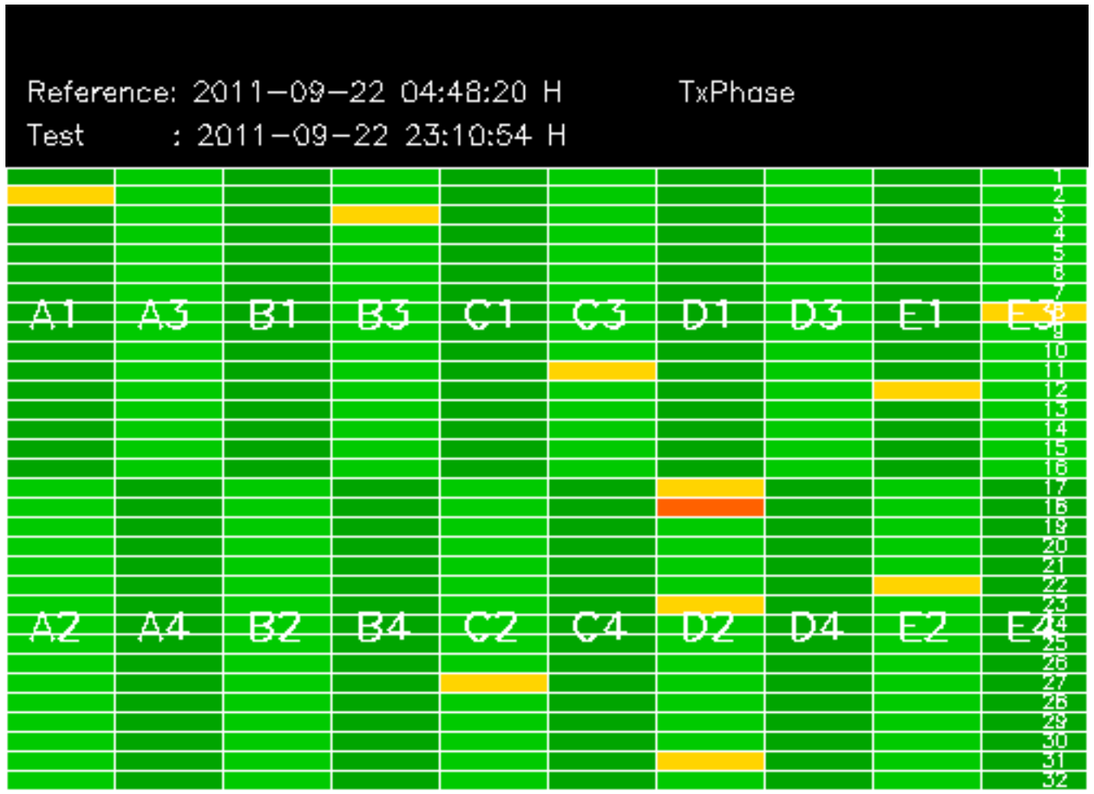
Reference: 2011-09-22 04:48:20 H
Test : 2011-09-22 23:10:54 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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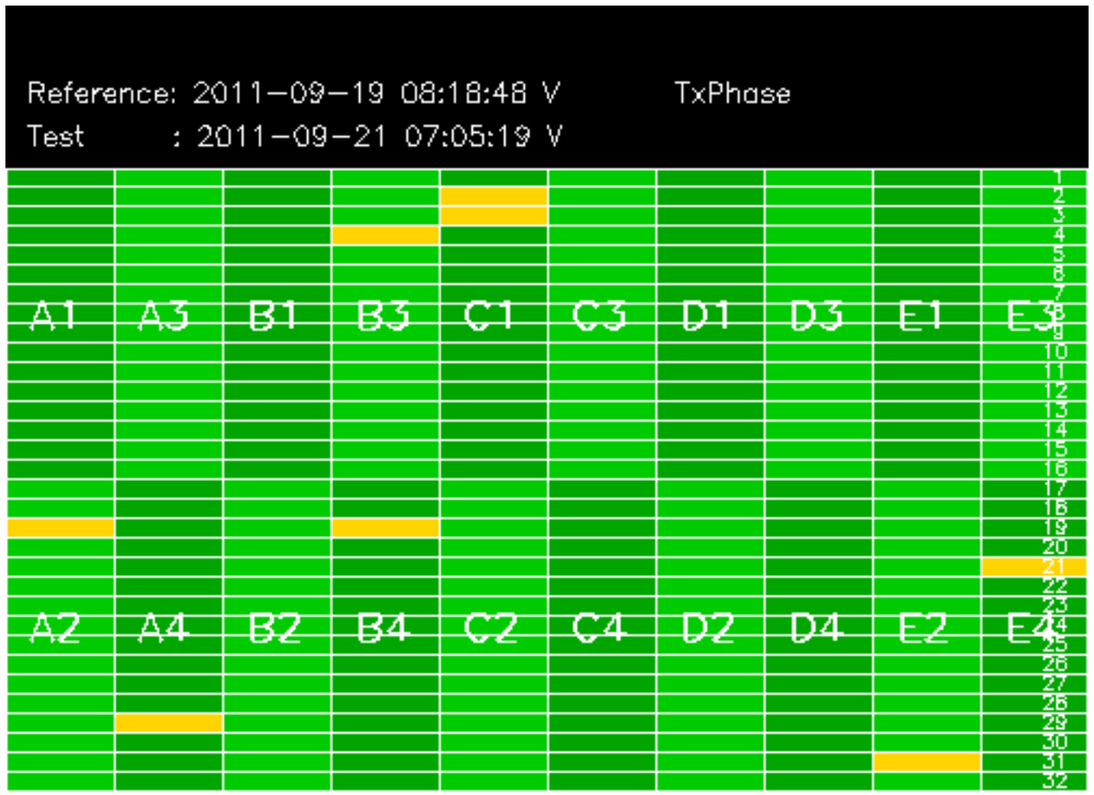
Reference: 2011-09-19 08:18:48 V
Test : 2011-09-21 07:05:19 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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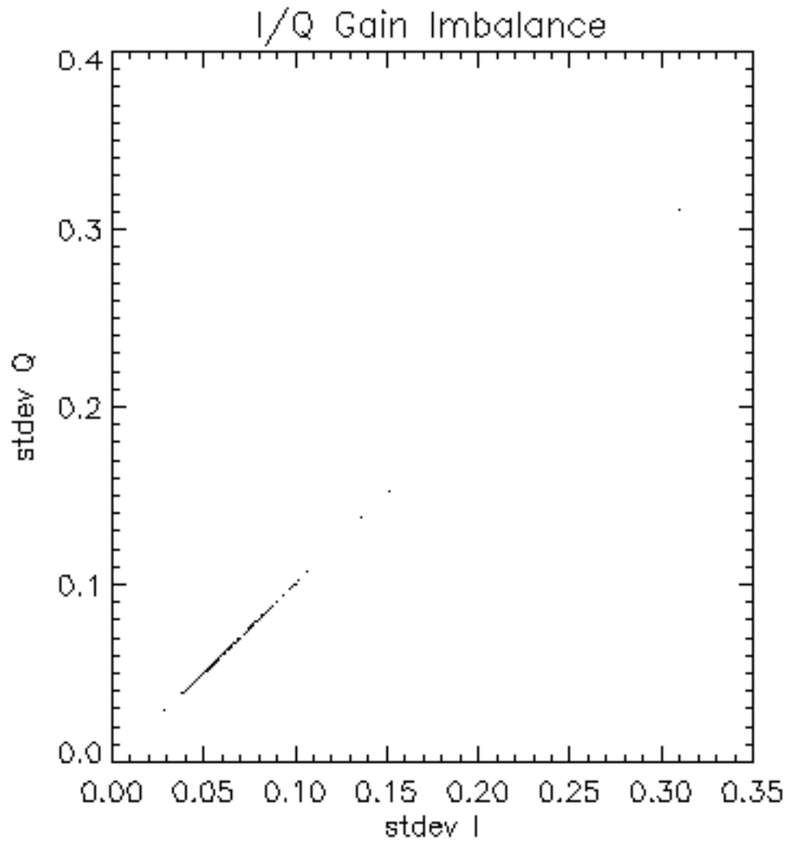
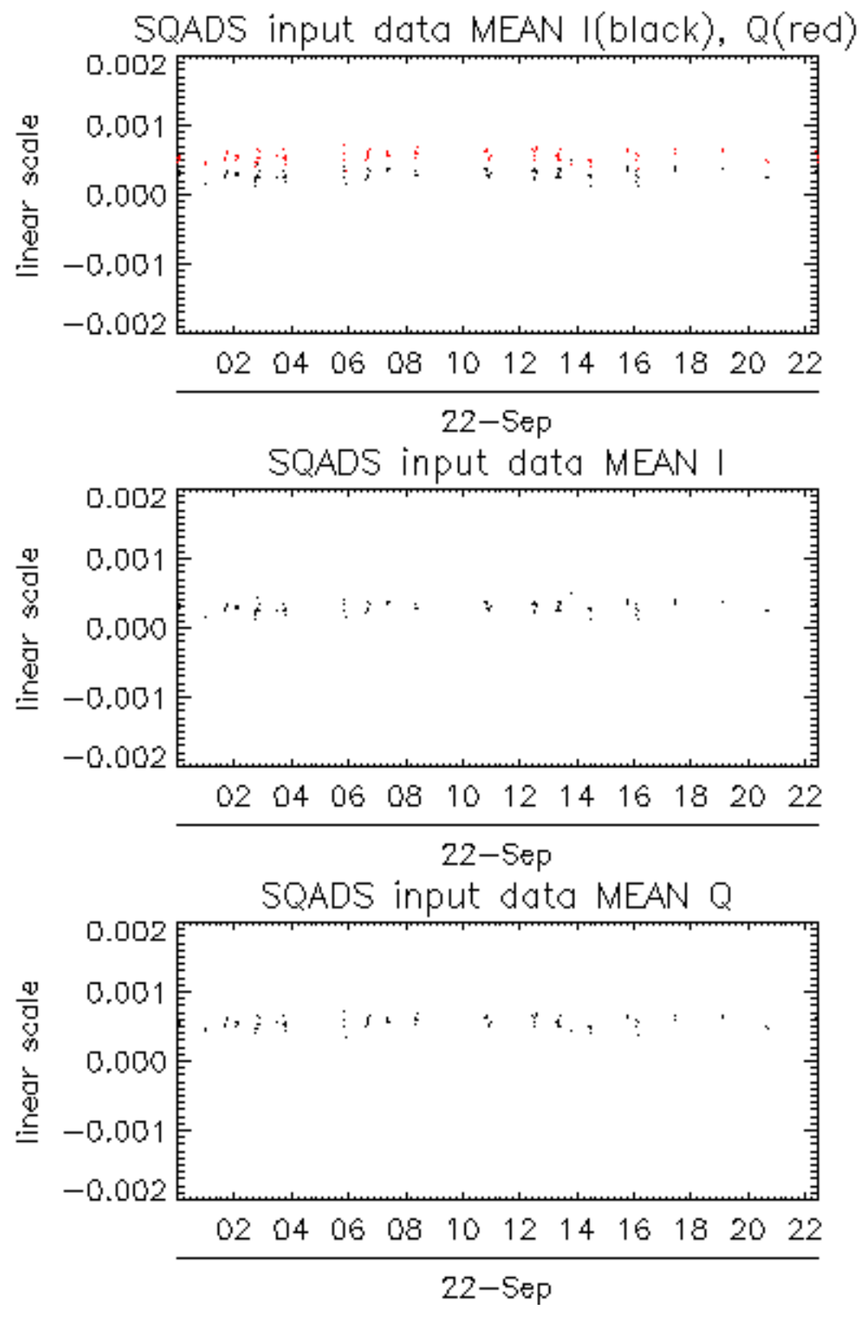
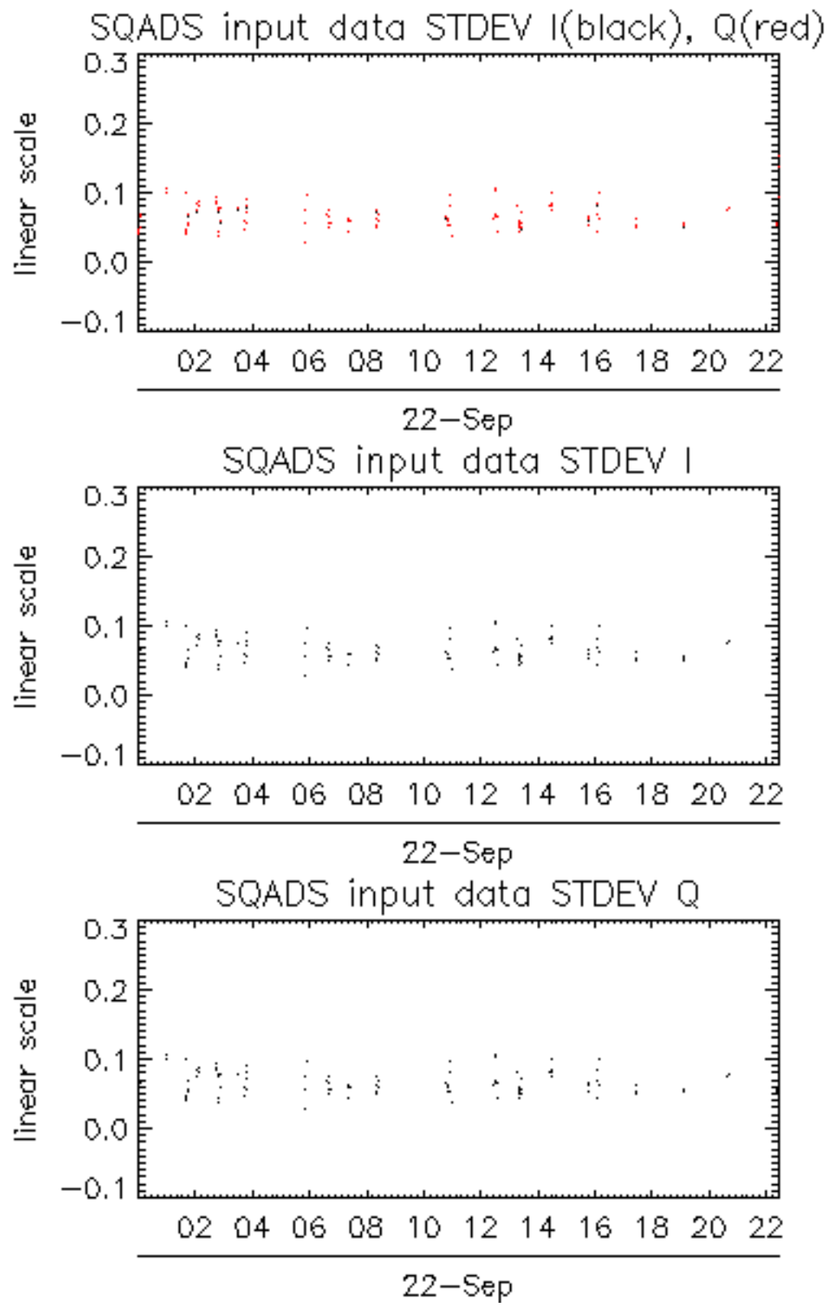
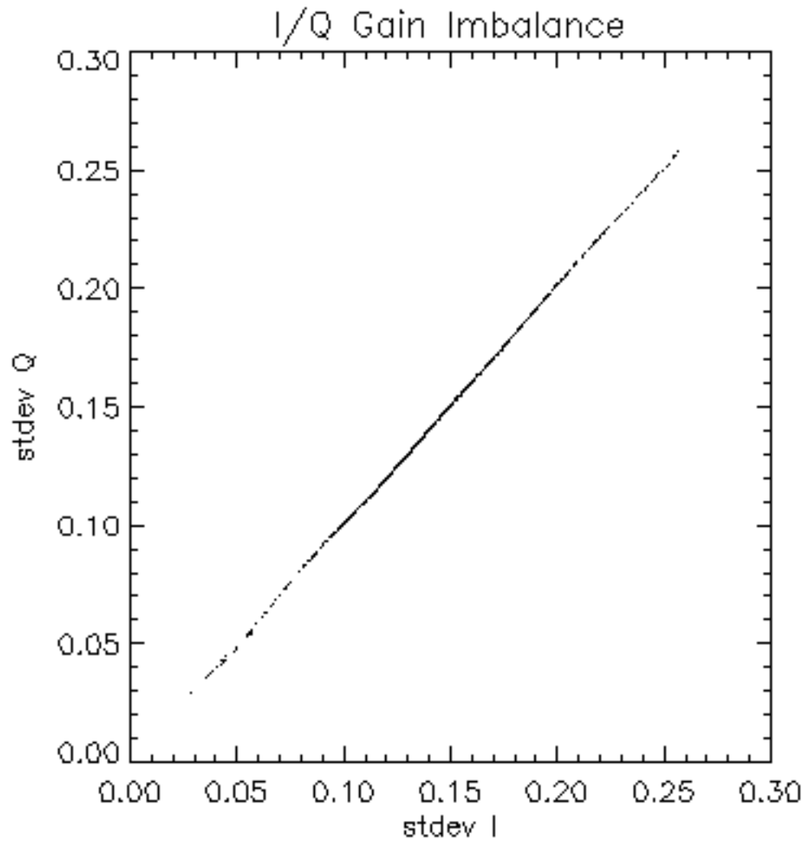
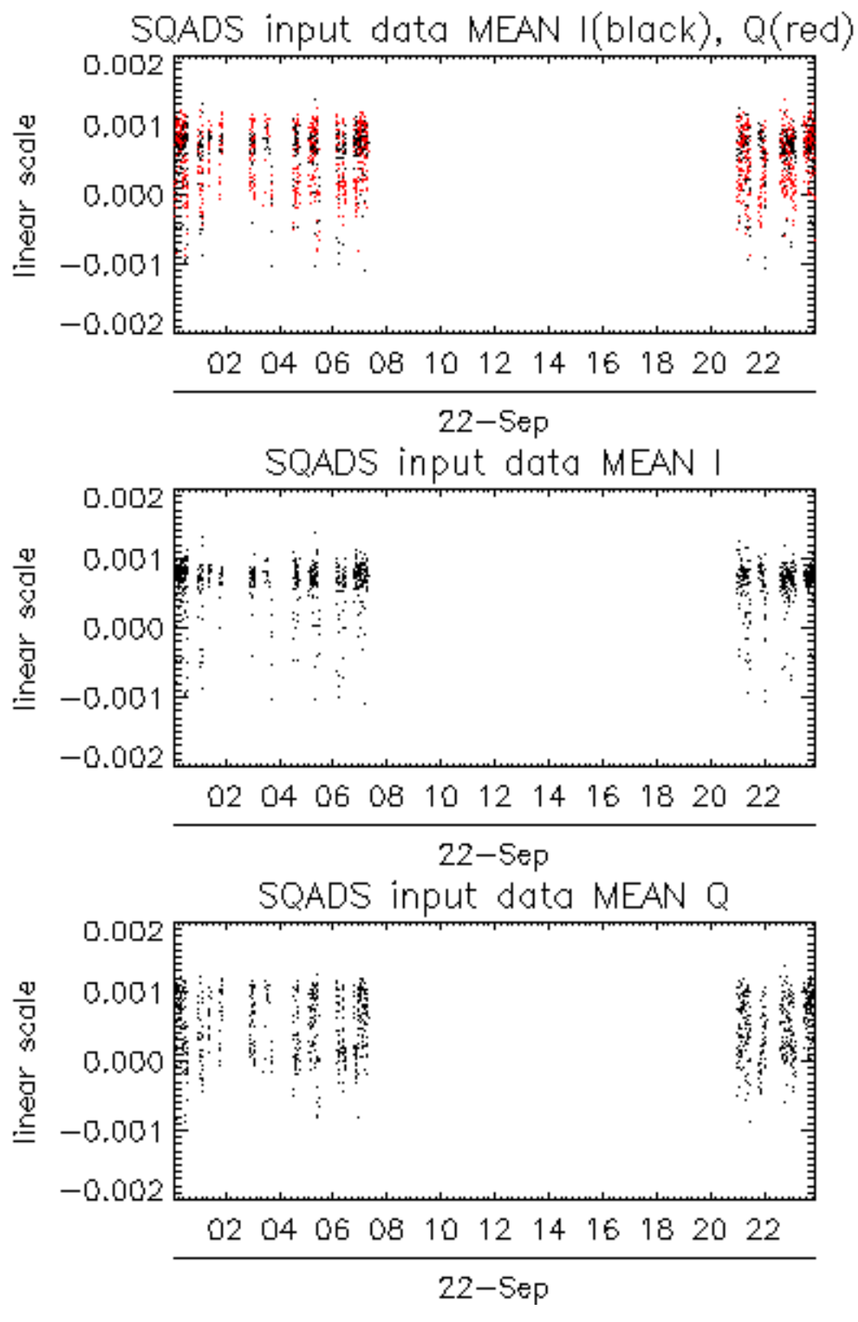
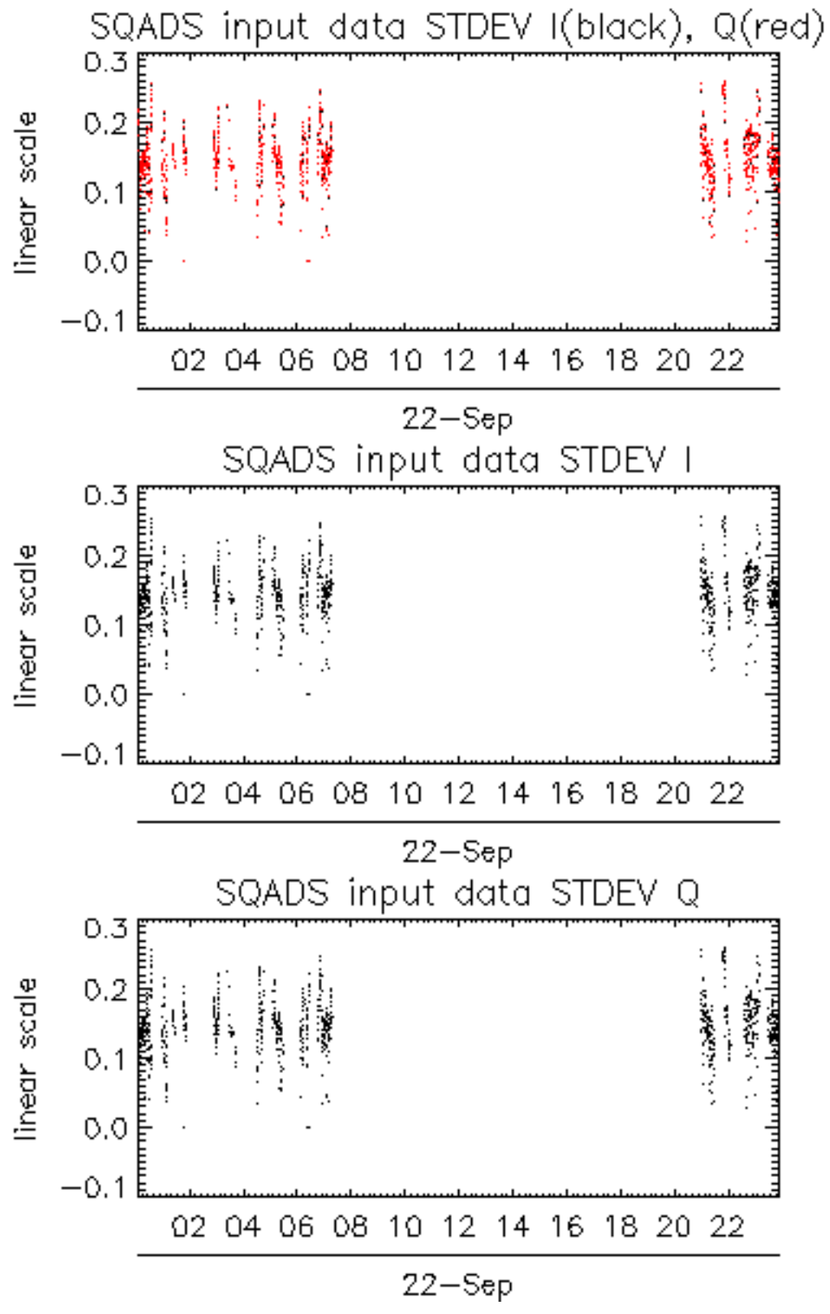

I/Q Gain Imbalance
0.4
0.3
0.2
0.1
0.0
stdev Q
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
stdev I

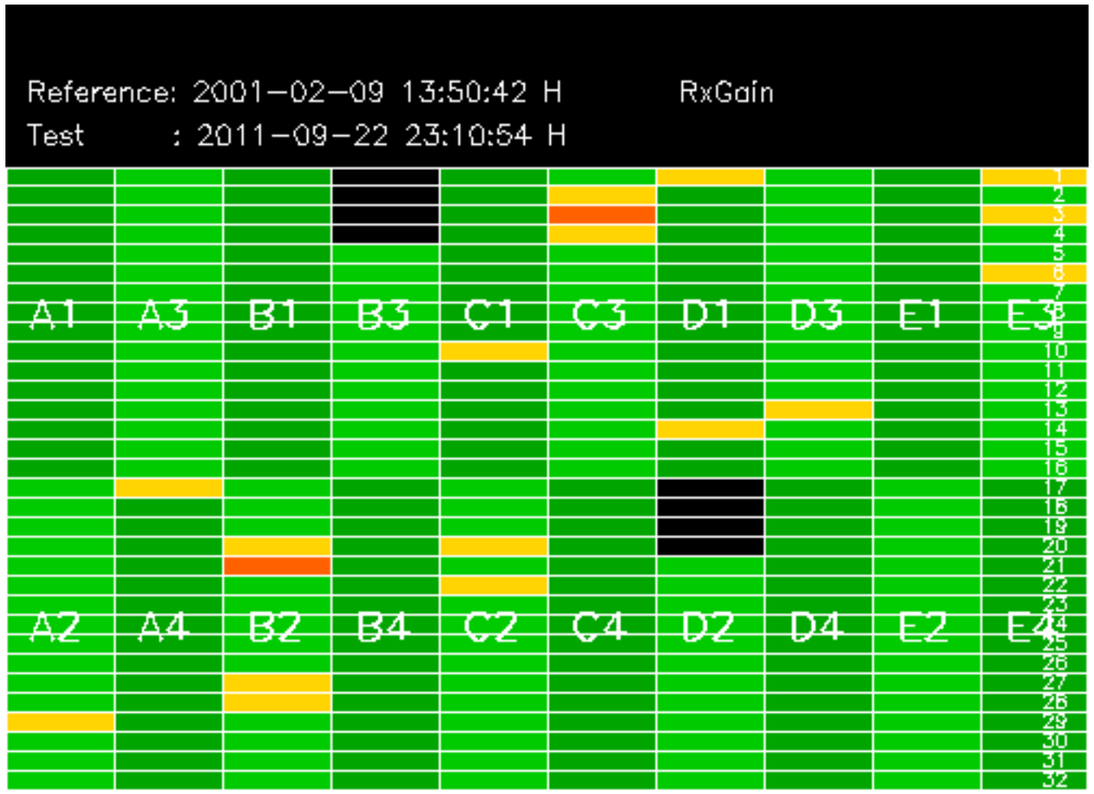

SQADS input data MEAN I(black), Q(red)
linear scale
0.002
0.001
0.000
−0.001
−0.002
02 04 06 08 10 12 14 16 18 20 22
22−Sep
SQADS input data MEAN I
linear scale
0.002
0.001
0.000
−0.001
−0.002
02 04 06 08 10 12 14 16 18 20 22
22−Sep
SQADS input data MEAN Q
linear scale
0.002
0.001
0.000
−0.001
−0.002
02 04 06 08 10 12 14 16 18 20 22
22−Sep

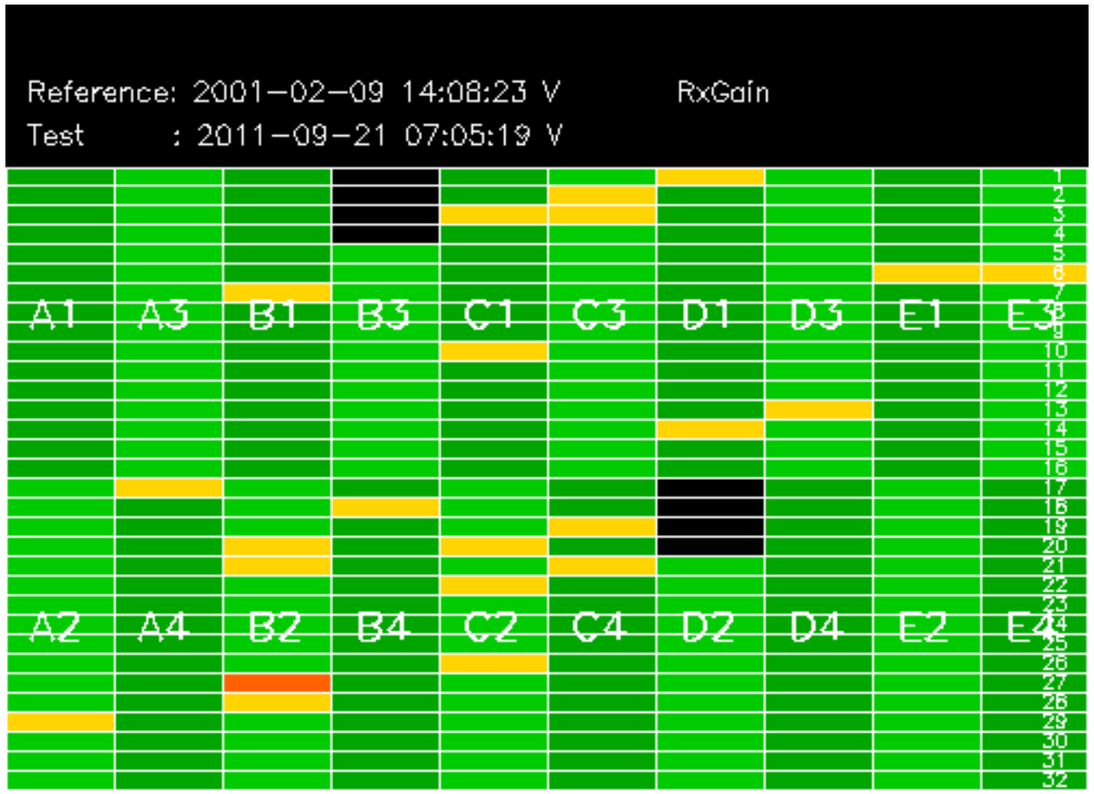

SQADS input data STDEV I(black), Q(red)
linear scale
0.3
0.2
0.1
0.0
−0.1
02 04 06 08 10 12 14 16 18 20 22
22−Sep
SQADS input data STDEV I
linear scale
0.3
0.2
0.1
0.0
−0.1
02 04 06 08 10 12 14 16 18 20 22
22−Sep
SQADS input data STDEV Q
linear scale
0.3
0.2
0.1
0.0
−0.1
02 04 06 08 10 12 14 16 18 20 22
22−Sep


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


SQADS input data MEAN I(black), Q(red)
linear scale
0.002
0.001
0.000
−0.001
−0.002
02 04 06 08 10 12 14 16 18 20 22
22−Sep
SQADS input data MEAN I
linear scale
0.002
0.001
0.000
−0.001
−0.002
02 04 06 08 10 12 14 16 18 20 22
22−Sep
SQADS input data MEAN Q
linear scale
0.002
0.001
0.000
−0.001
−0.002
02 04 06 08 10 12 14 16 18 20 22
22−Sep


SQADS input data STDEV I(black), Q(red)
linear scale
0.3
0.2
0.1
0.0
−0.1
02 04 06 08 10 12 14 16 18 20 22
22−Sep
SQADS input data STDEV I
linear scale
0.3
0.2
0.1
0.0
−0.1
02 04 06 08 10 12 14 16 18 20 22
22−Sep
SQADS input data STDEV Q
linear scale
0.3
0.2
0.1
0.0
−0.1
02 04 06 08 10 12 14 16 18 20 22
22−Sep


Reference: 2001-02-09 13:50:42 H
RxGain
Test : 2011-09-22 23:10:54 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 : 2011-09-21 07:05:19 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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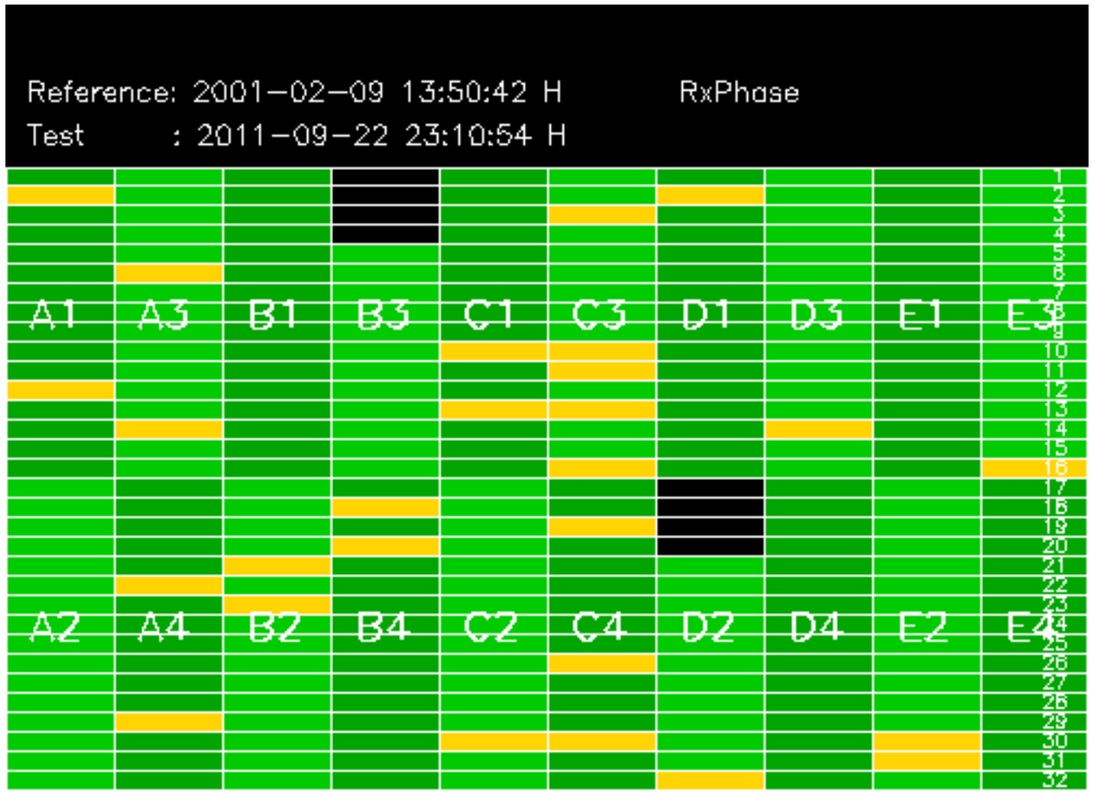
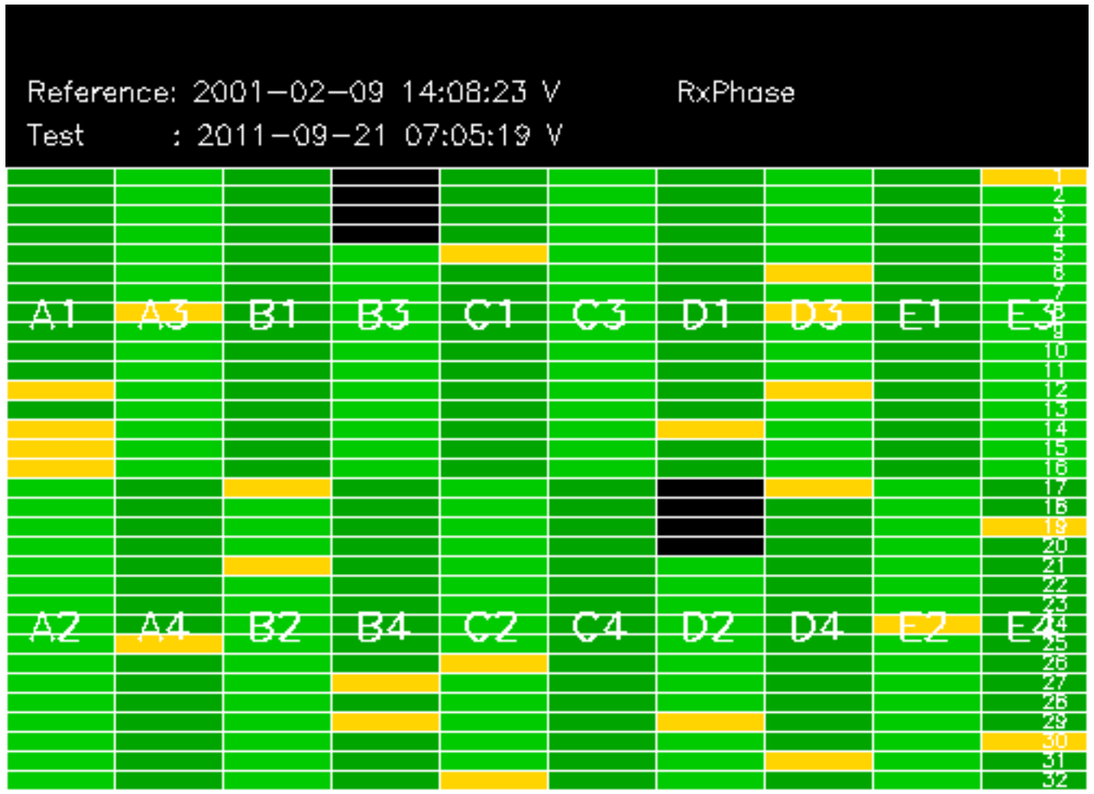
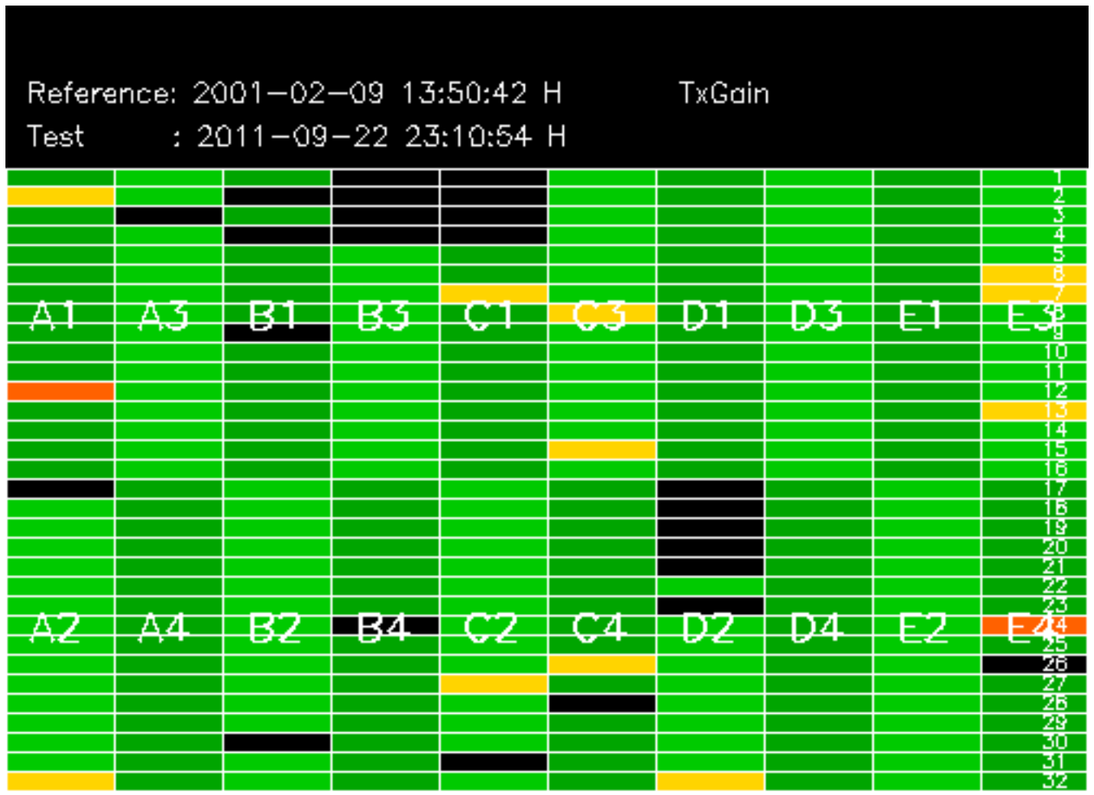
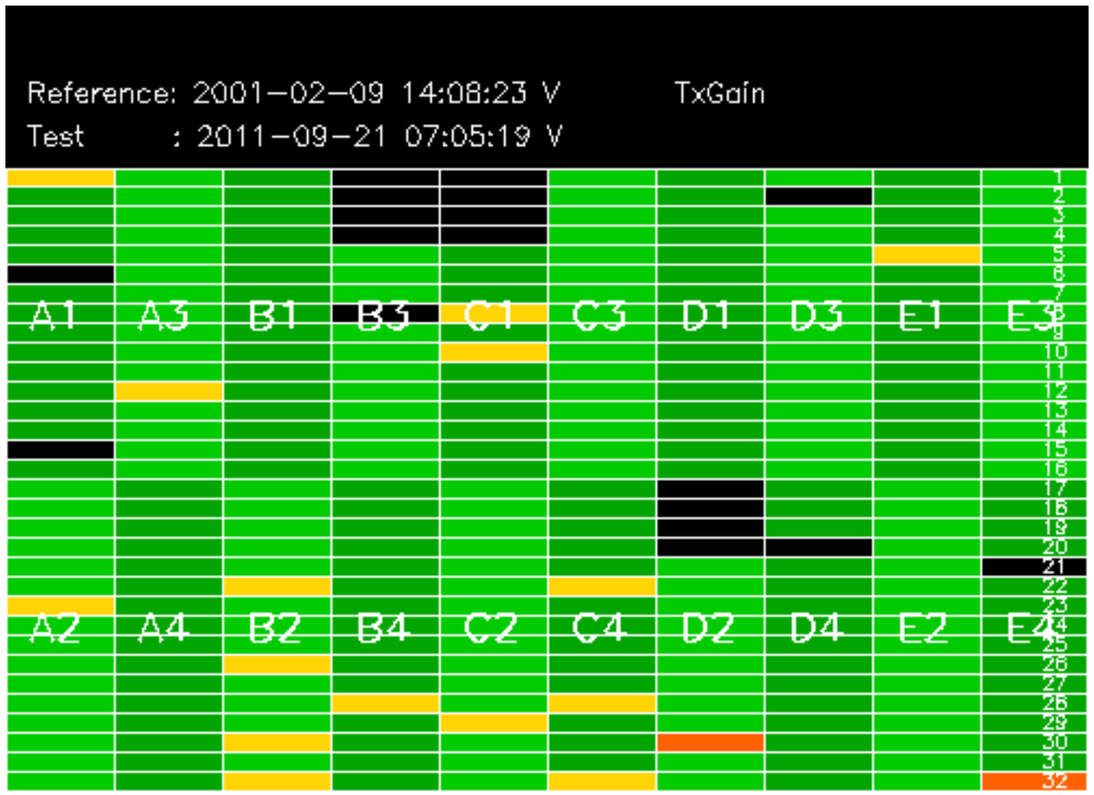

Reference: 2001-02-09 13:50:42 H
RxPhase
Test : 2011-09-22 23:10:54 H
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2011-09-21 07:05:19 V
RxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 13:50:42 H
Test : 2011-09-22 23:10:54 H
TxGain
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
TxGain
Test : 2011-09-21 07:05:19 V
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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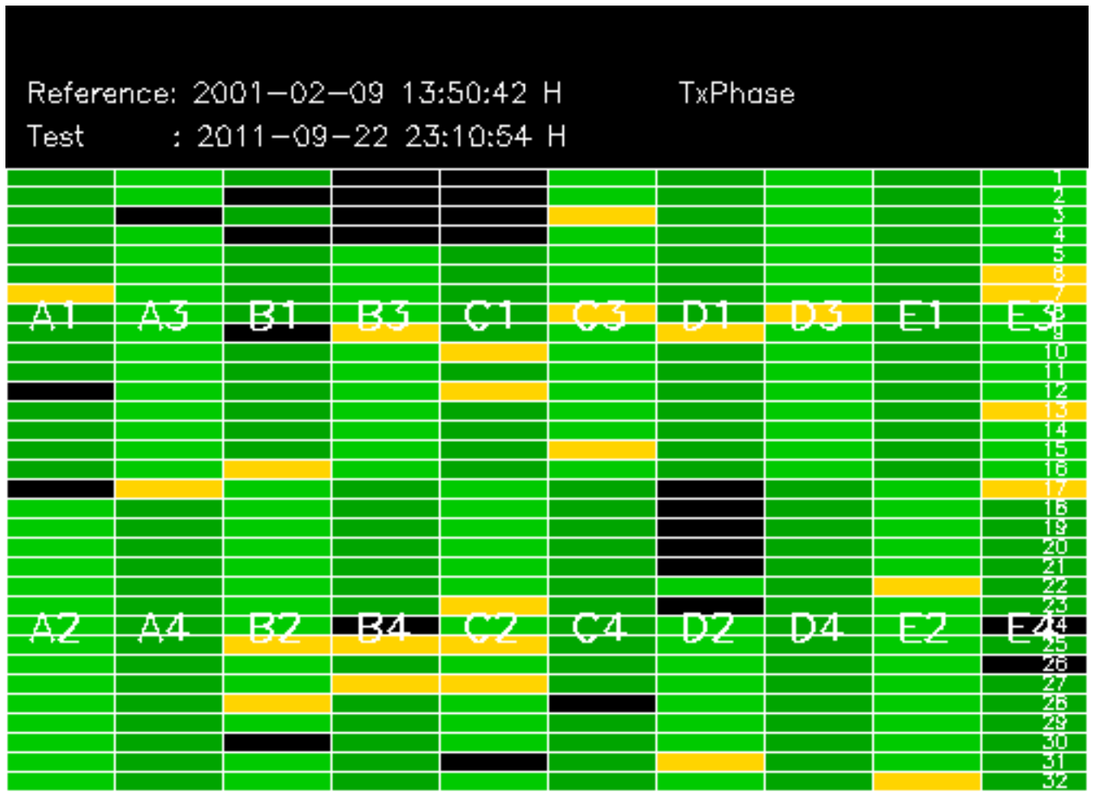
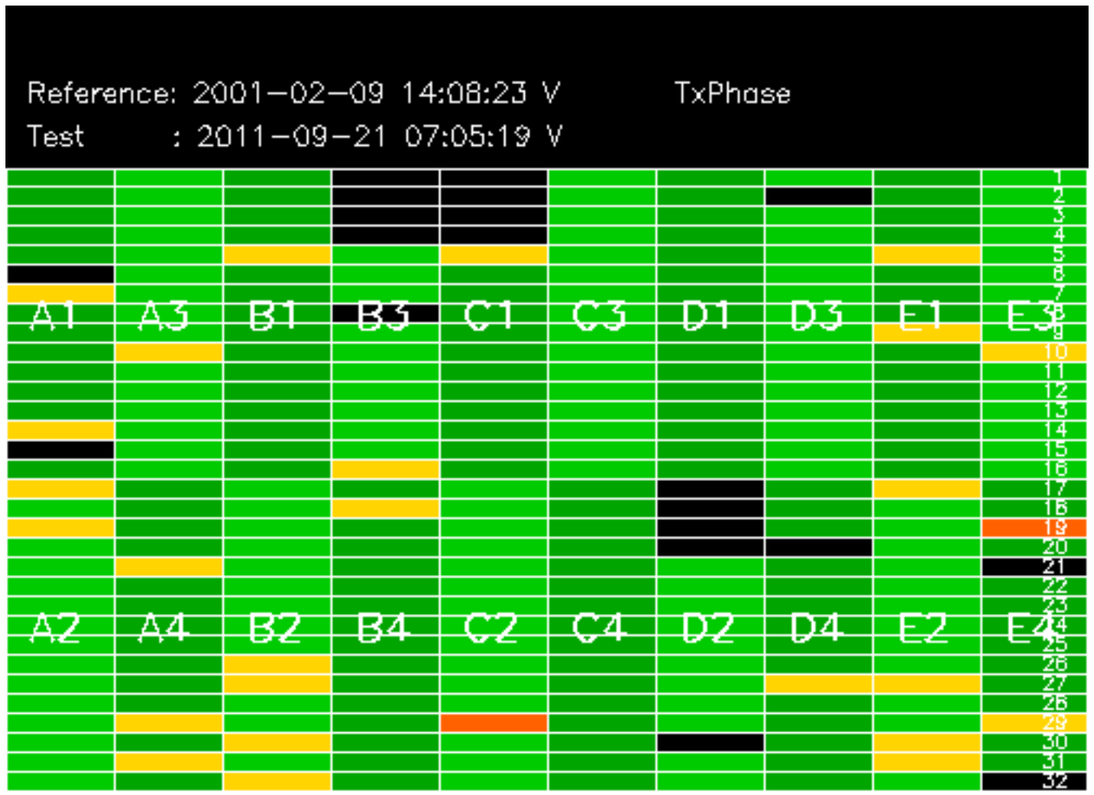

Reference: 2001-02-09 13:50:42 H
Test : 2011-09-22 23:10:54 H
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4


Reference: 2001-02-09 14:08:23 V
Test : 2011-09-21 07:05:19 V
TxPhase
A1
A3
B1
B3
C1
C3
D1
D3
E1
E3
A2
A4
B2
B4
C2
C4
D2
D4
E2
E4
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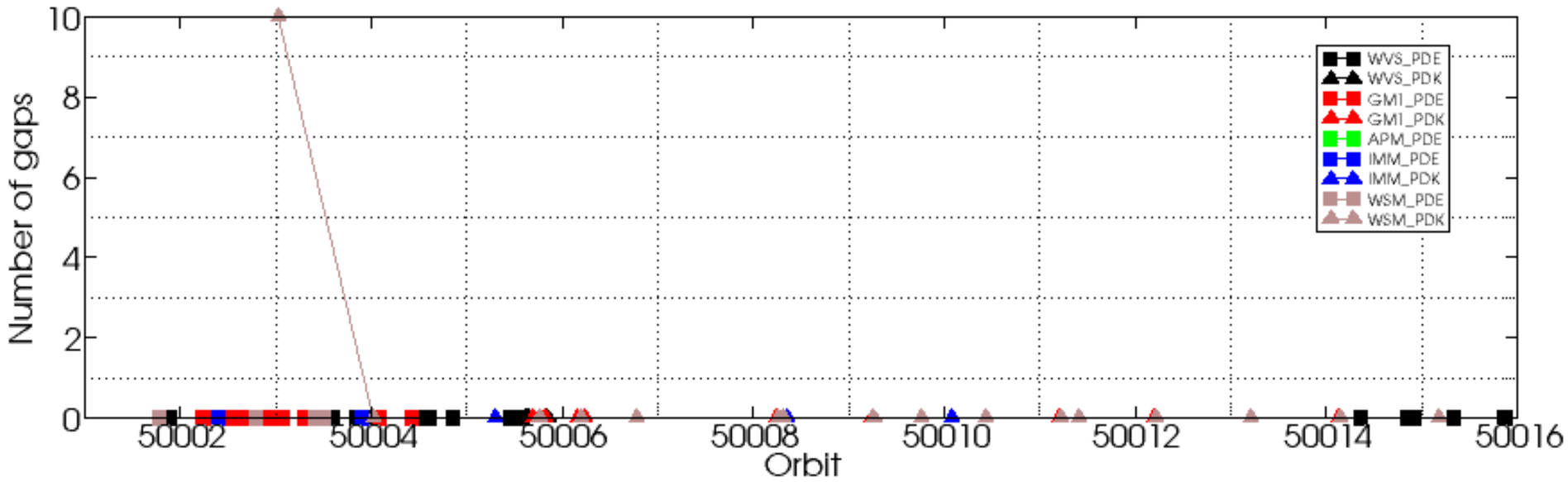
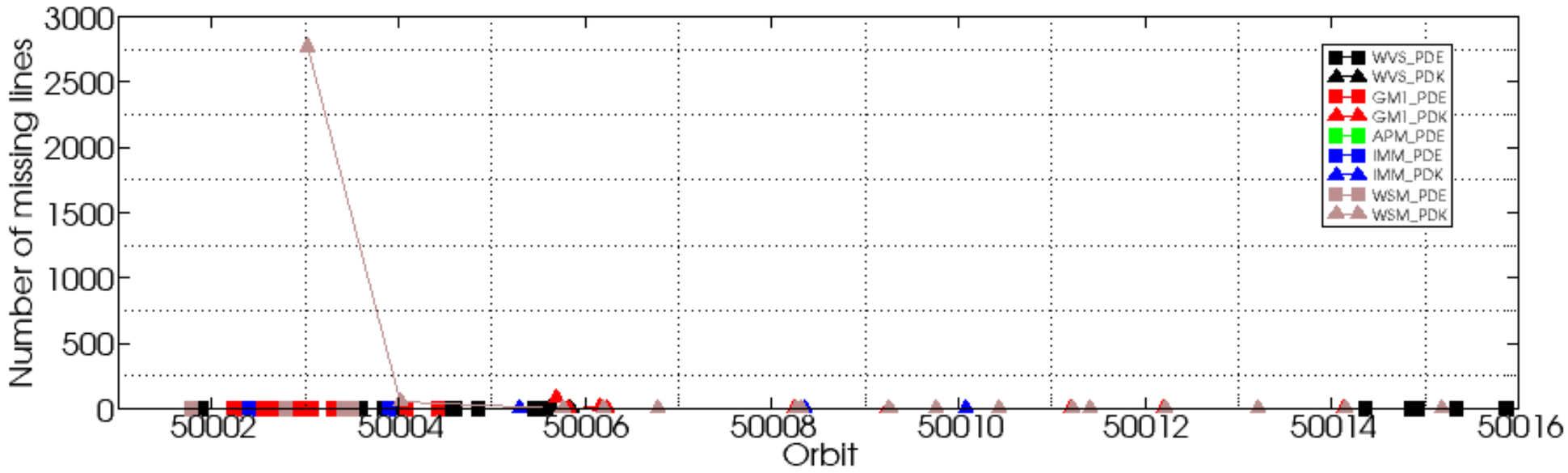

10
8
6
4
2
0
Number of gaps
50002
50004
50006
50008
50010
50012
50014
50016
Orbit
WVS_PDE
WVS_PDK
GM1_PDE
GM1_PDK
APM_PDE
IMM_PDE
IMM_PDK
WSM_PDE
WSM_PDK


Number of missing lines
3000
2500
2000
1500
1000
500
0
50002
50004
50006
50008
50010
50012
50014
50016
Orbit
WVS_PDE
WVS_PDK
GM1_PDE
GM1_PDK
APM_PDE
IMM_PDE
IMM_PDK
WSM_PDE
WSM_PDK