



Analysis from 21-DEC-2010 00:00:00 to 21-DEC-2010 23:59:59. Page generated on 22-DEC-2010 09:11:13.  
View log file: ASAR\_Daily\_Report\_20101222\_0910.log. For any anomalies please contact emma.griffiths@vega.co.uk, kajal.haria@vega.co.uk.

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

## SUMMARY

1. DATA SUMMARY
  - 1.1 Summary tables
  - 1.2 Lists of products used
2. AUXILIARY FILES ANALYSIS
  - 2.1 IECF operational ADFs list
  - 2.2 Products with wrong ADFs
3. MODULE STEPPING PRODUCTS ANALYSIS
  - 3.1 V/V polarisation
  - 3.2 H/H polarisation
4. CALIBRATION PULSES ANALYSIS
  - 4.1 Analysis for WVS IS2 V/V
    - 4.1.1 Temporal Evolution Analysis for WVS IS2 V/V
    - 4.1.2 All Rows Analysis for WVS IS2 V/V
  - 4.2 Analysis for GM1 SS3 H/H
    - 4.2.1 Temporal Evolution Analysis for GM1 SS3 H/H
    - 4.2.2 All Rows Analysis for GM1 SS3 H/H
5. DOPPLER ANALYSIS
  - 5.1 Analysis for WVS IS2 V/V
    - 5.1.1 Doppler MAP Analysis for WVS IS2 V/V
    - 5.1.2 Doppler ANX Analysis for WVS IS2 V/V
  - 5.2 Analysis for GM1 SS1 H/H
    - 5.2.1 Doppler MAP Analysis for GM1 SS1 H/H
    - 5.2.2 Doppler ANX Analysis for GM1 SS1 H/H
  - 5.3 Doppler JUMPS Analysis for WSM
6. CHIRP ANALYSIS
  - 6.1 Analysis for WSM SS1 H/H
    - 6.1.1 ScaleFactor
  - 6.2 Analysis for WSM SS1 V/V
    - 6.2.1 ScaleFactor
7. RAW DATA ANALYSIS
  - 7.1 Analysis for WVS
  - 7.2 Analysis for IMM
8. TELEMETRY ANALYSIS
  - 8.1 Number of Missing Lines
  - 8.2 Number of Gaps

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## 1 - DATA SUMMARY

### 1.1 - Summary tables

[ [BACK TO MENU](#) ]

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	5	PDE	WS	H/H	30					PDE	IS2	H/H	2	PDE	WS	H/H	24	PDK	2010-12-21 07:47:29	H	320
PDE	IS2	V/V	37	PDK	WS	H/H	7					PDE	IS2	V/V	1	PDE	WS	V/V	10	PDK	2010-12-21 09:27:43	V	320
PDK	IS2	V/V	24									PDE	IS6	H/H	3	PDK	WS	V/V	1				
												PDE	IS7	V/V	1								

## 1.2 - Lists of products used

[ [BACK TO MENU](#) ]

[[TXT](#)] [[XLS](#)] [List\\_WVS\\_products\\_used](#)  
 [[TXT](#)] [[XLS](#)] [List\\_GM1\\_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](#) ]

ADFs disseminated for ASAR
ASA_CON_AXVIEC20100608_125449_20100317_120410_20101231_000000
ASA_INS_AXVIEC20101028_095209_20101022_000000_20101231_235959
ASA_XCH_AXVIEC20091217_113006_20020301_000000_20101231_000000
ASA_XCA_AXVIEC20101111_113830_20100601_000000_20141231_000000

### 2.2 - Products with wrong ADFs

[ [BACK TO MENU](#) ]

Product	ASA_CON	ASA_INS	ASA_XCH	ASA_XCA
WVS	0	0	0	0
GM1	0	0	0	0
IMM	0	0	0	0
WSM	0	0	0	0

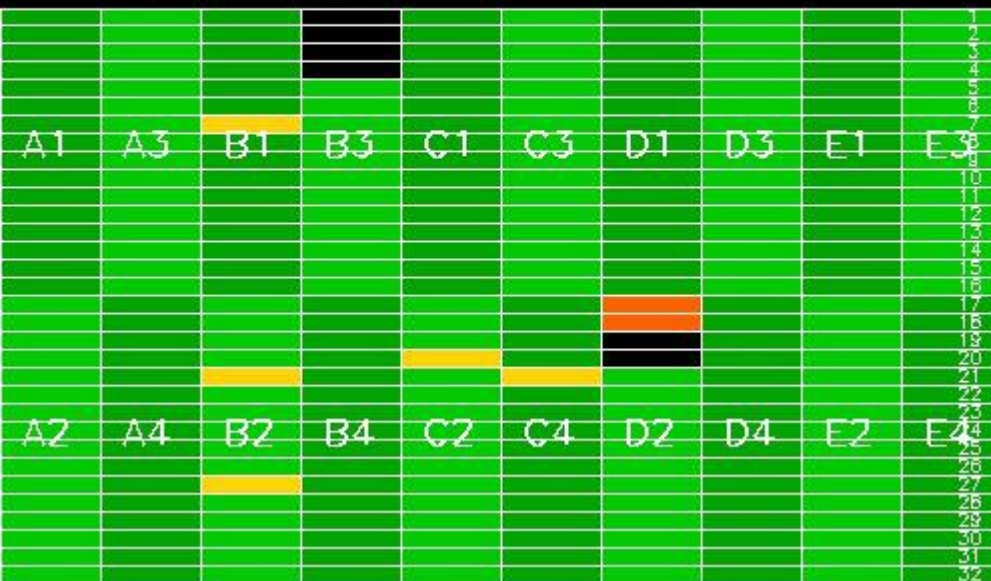
[[TXT](#)] [[XLS](#)] [Check\\_ADFs\\_WVS](#)  
 [[TXT](#)] [[XLS](#)] [Check\\_ADFs\\_GM1](#)  
 [[TXT](#)] [[XLS](#)] [Check\\_ADFs\\_IMM](#)  
 [[TXT](#)] [[XLS](#)] [Check\\_ADFs\\_WSM](#)

## 3 - MODULE STEPPING PRODUCTS ANALYSIS

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

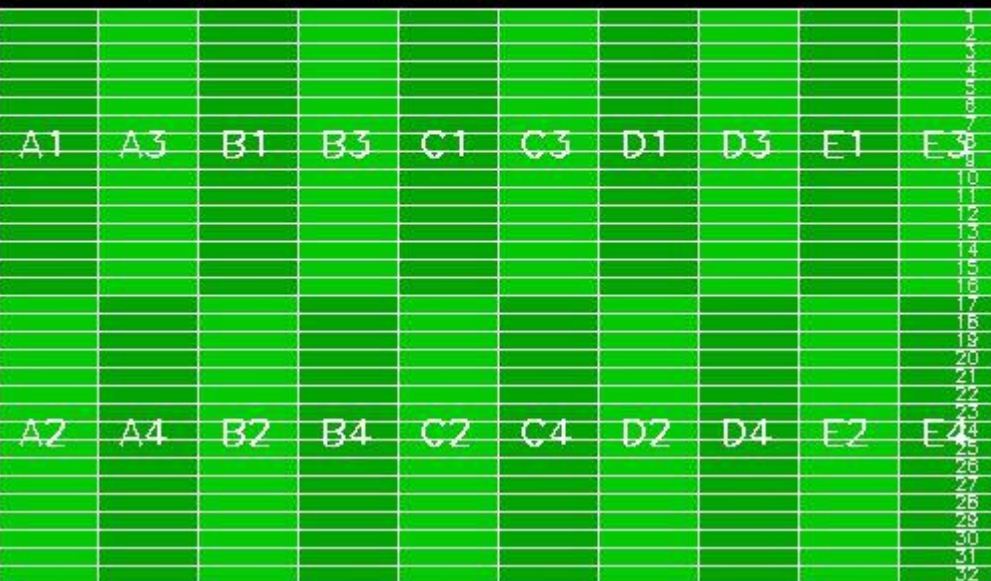
Reference: 2001-02-09 14:08:23 V RxGain

Test : 2010-12-21 09:27:43 V



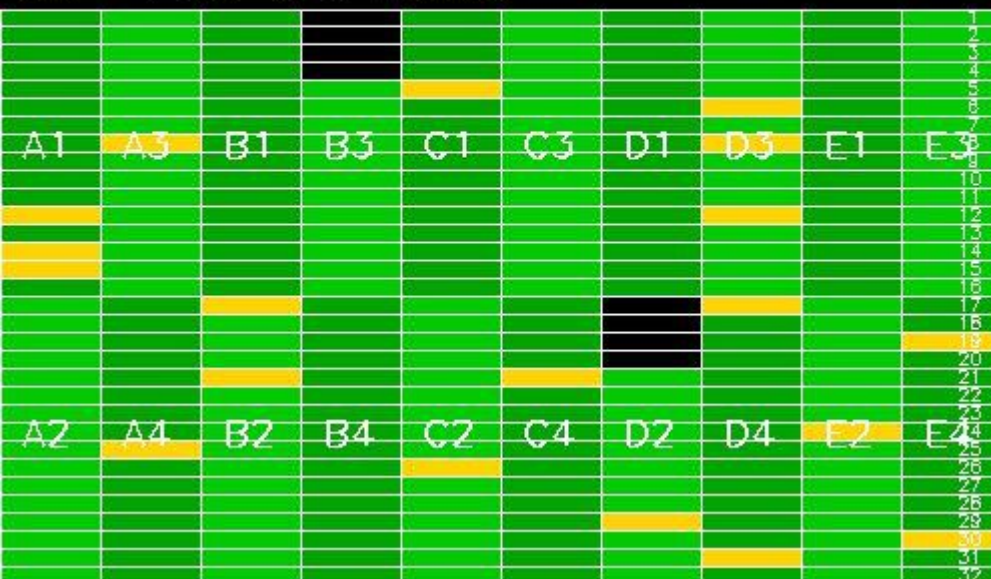
Reference: 2010-12-20 10:04:26 V RxGain

Test : 2010-12-21 09:27:43 V



Reference: 2001-02-09 14:08:23 V RxPhase

Test : 2010-12-21 09:27:43 V

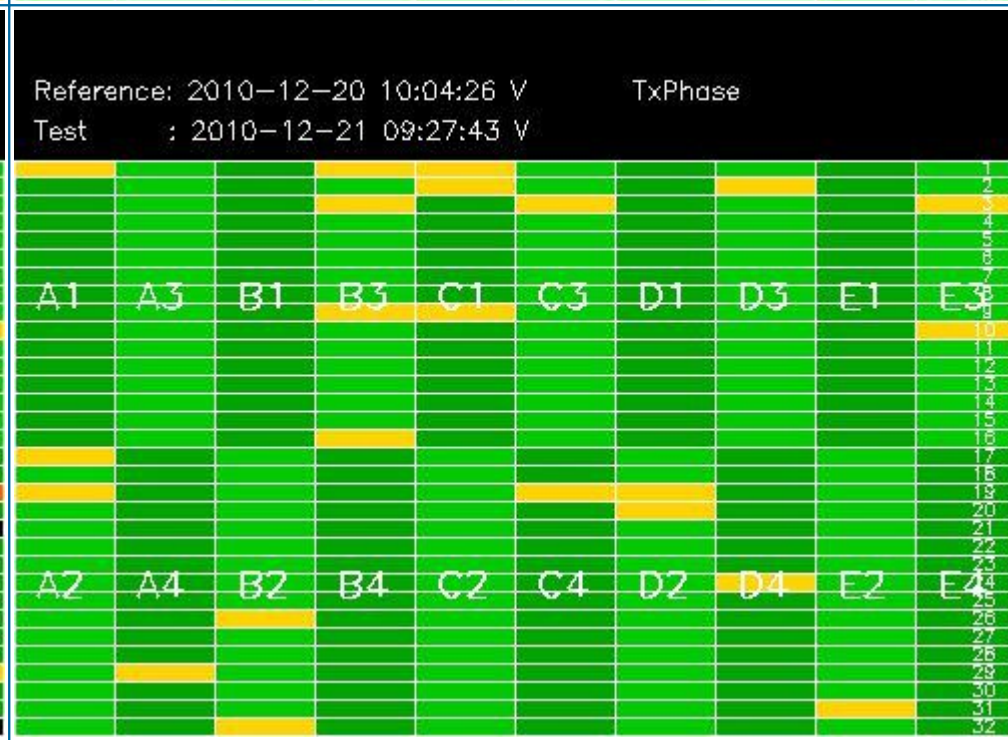
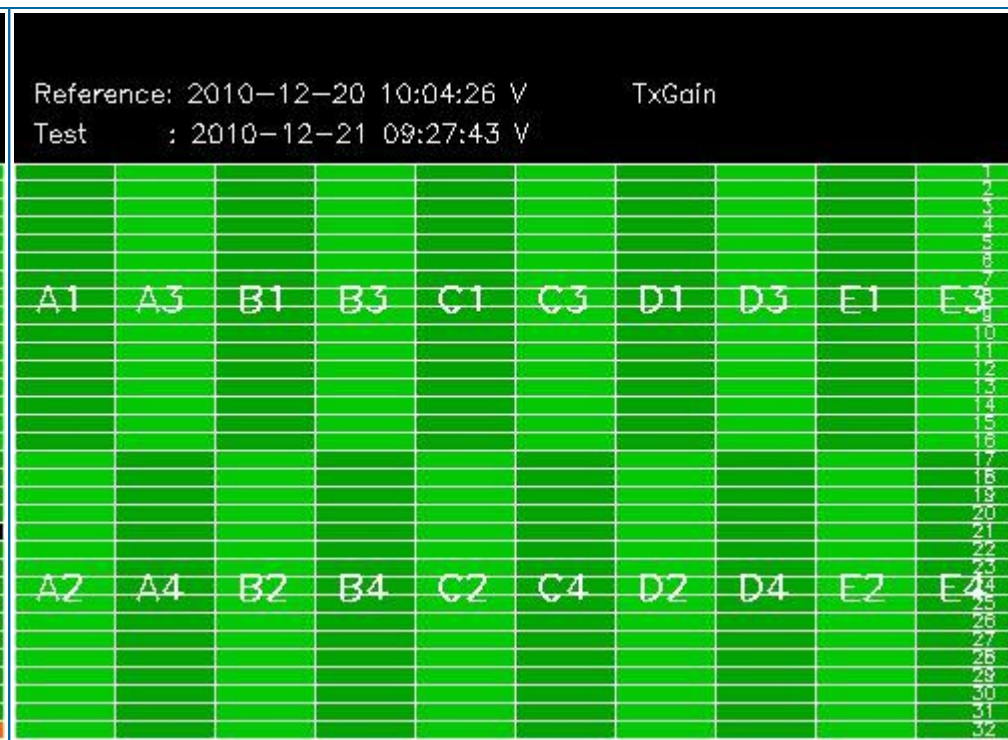
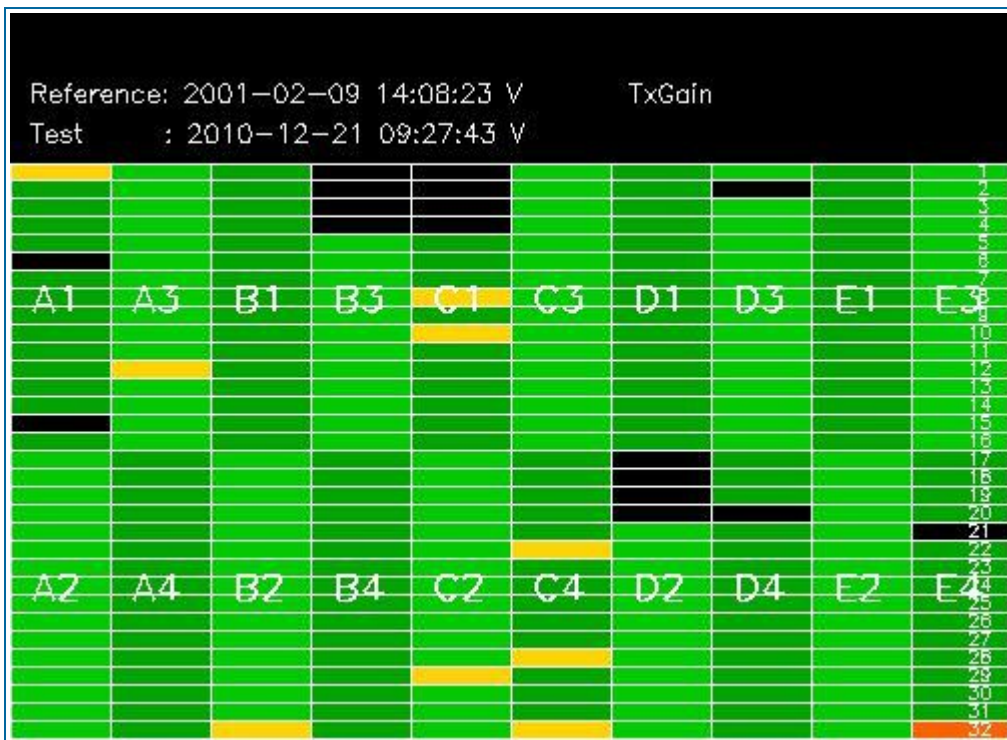


Reference: 2010-12-20 10:04:26 V RxPhase

Test : 2010-12-21 09:27:43 V



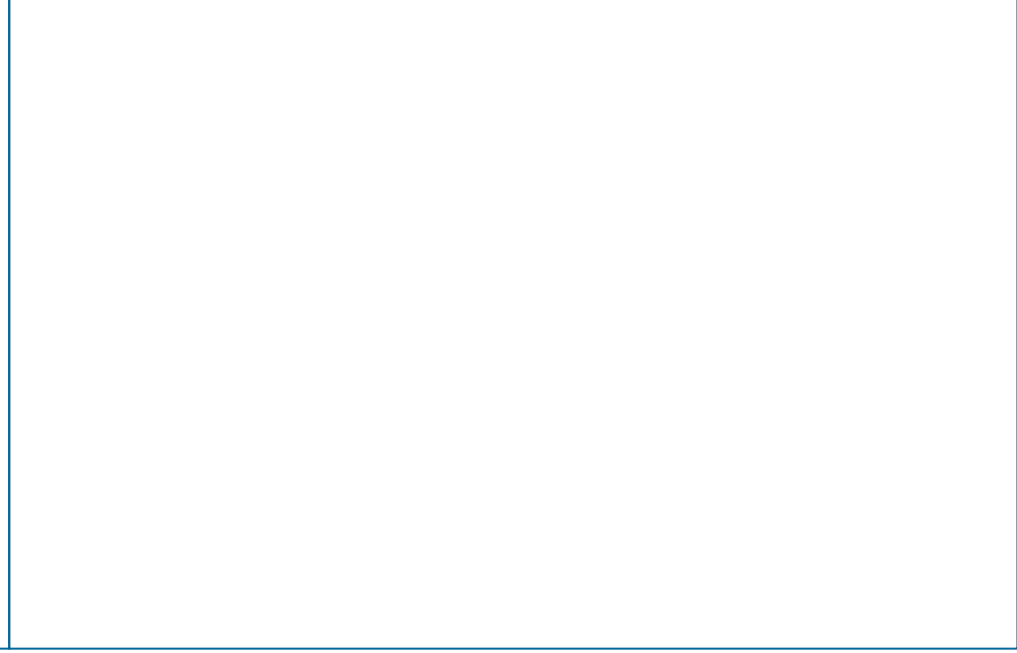
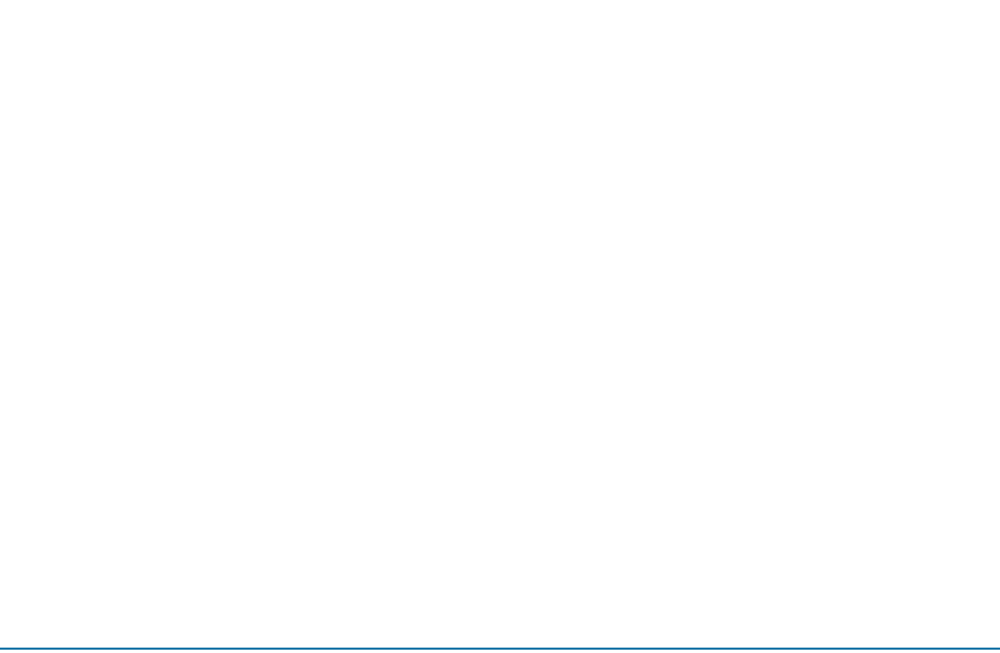
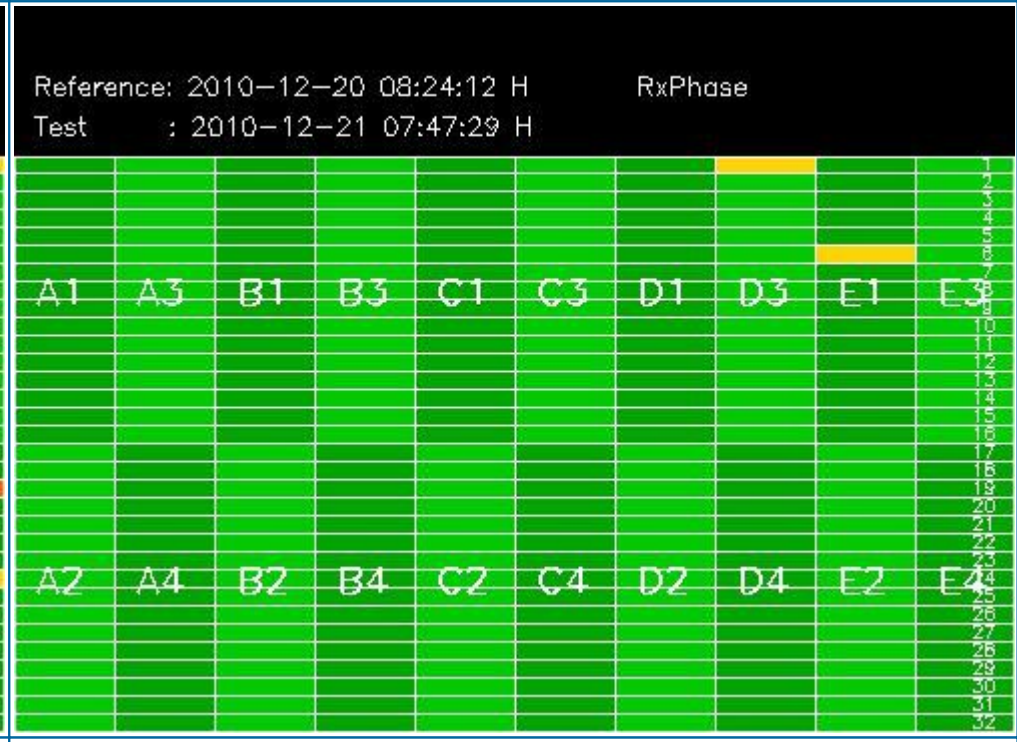
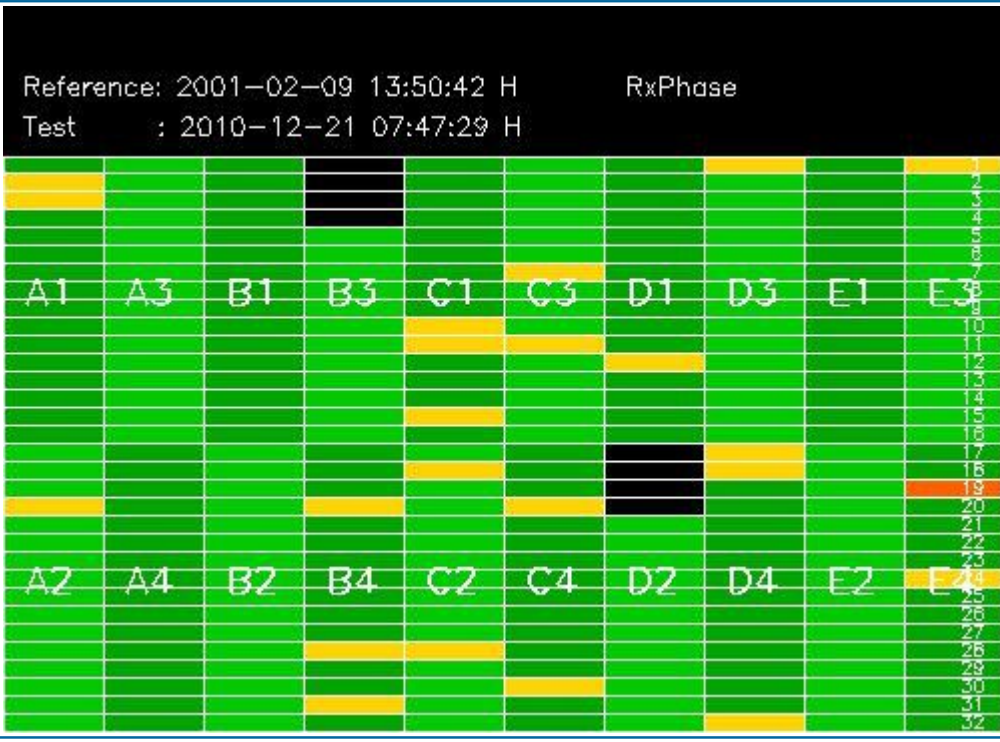
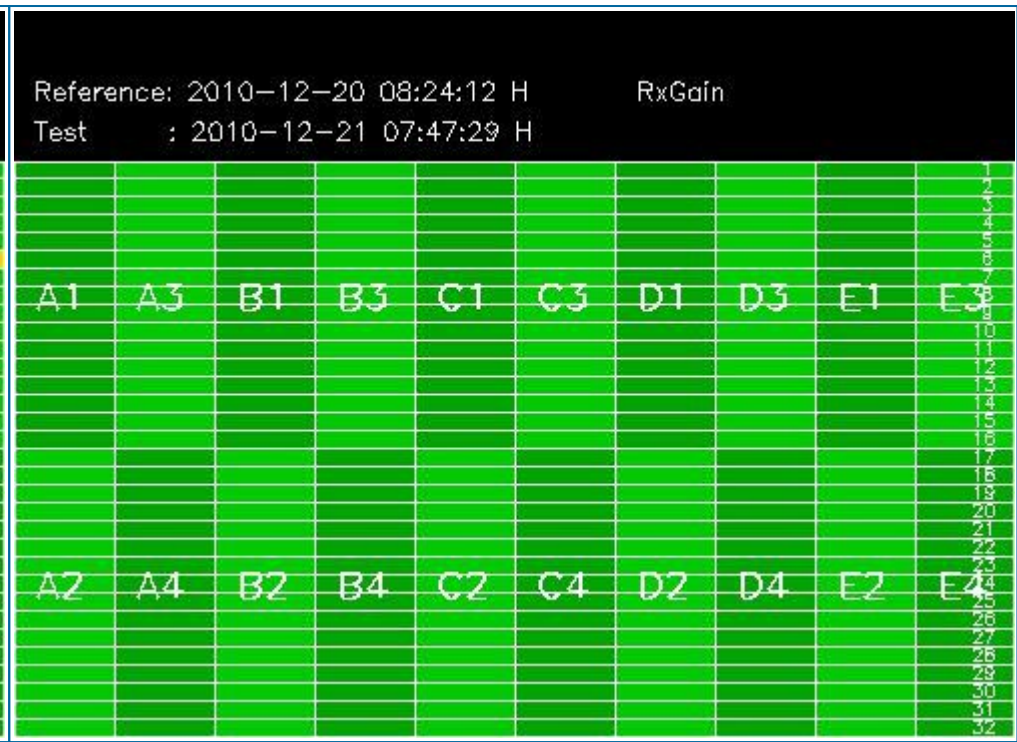
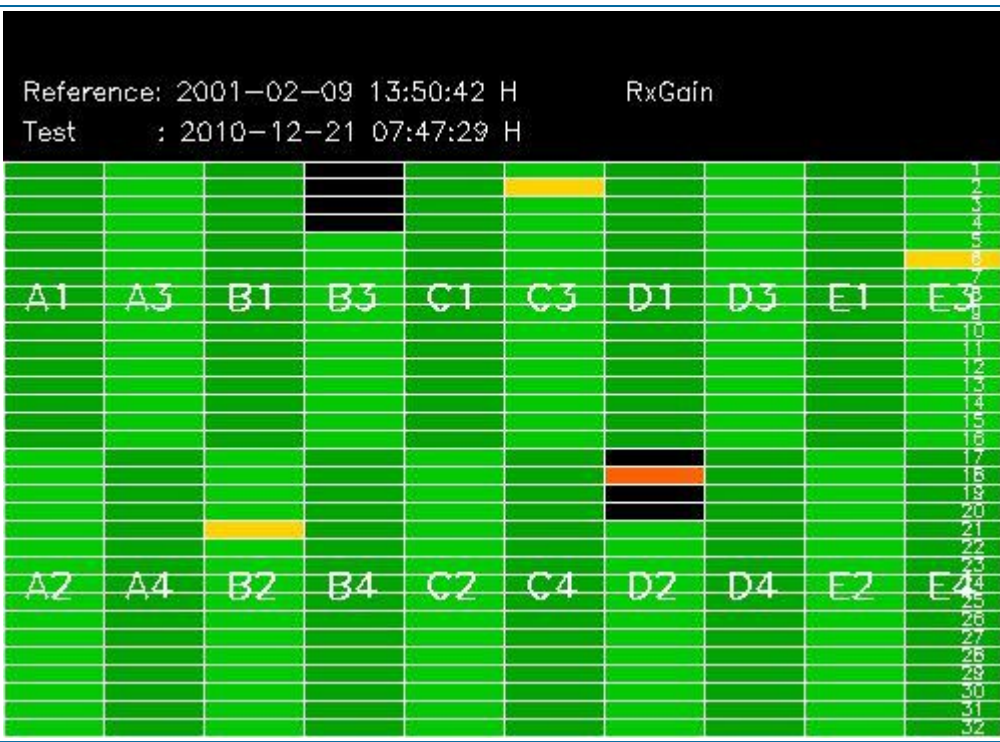




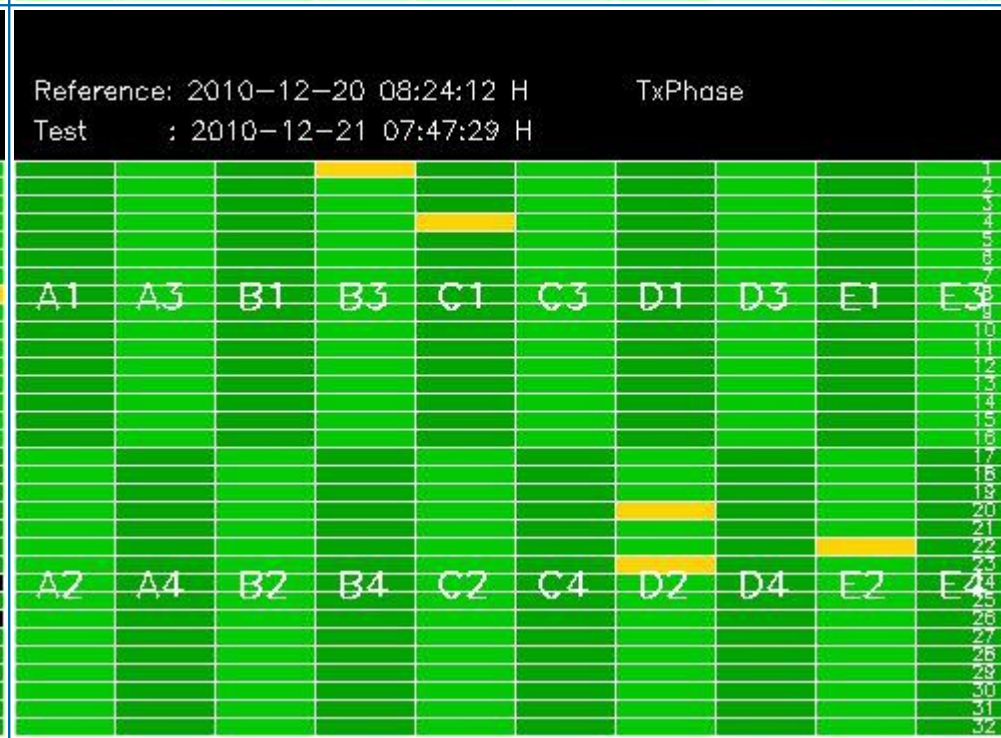
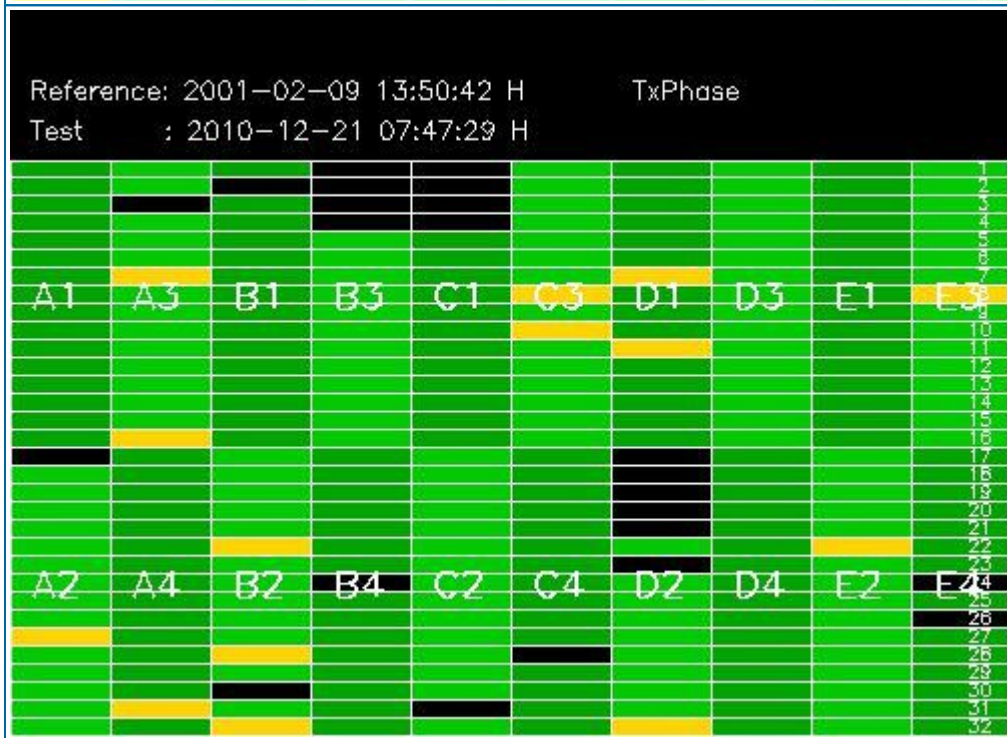
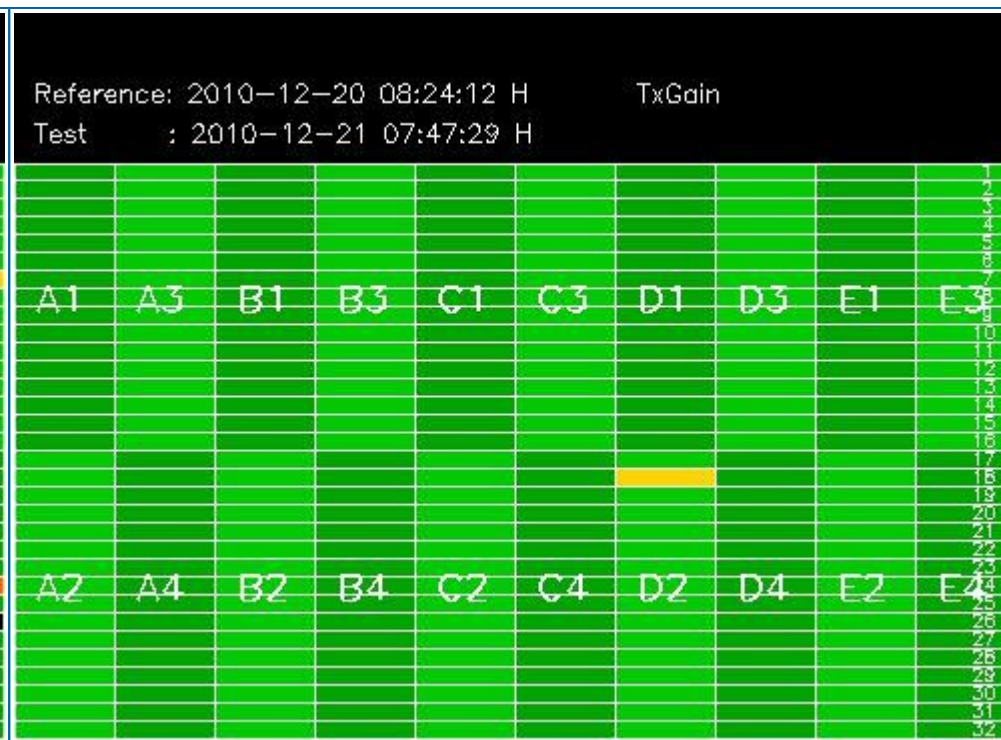
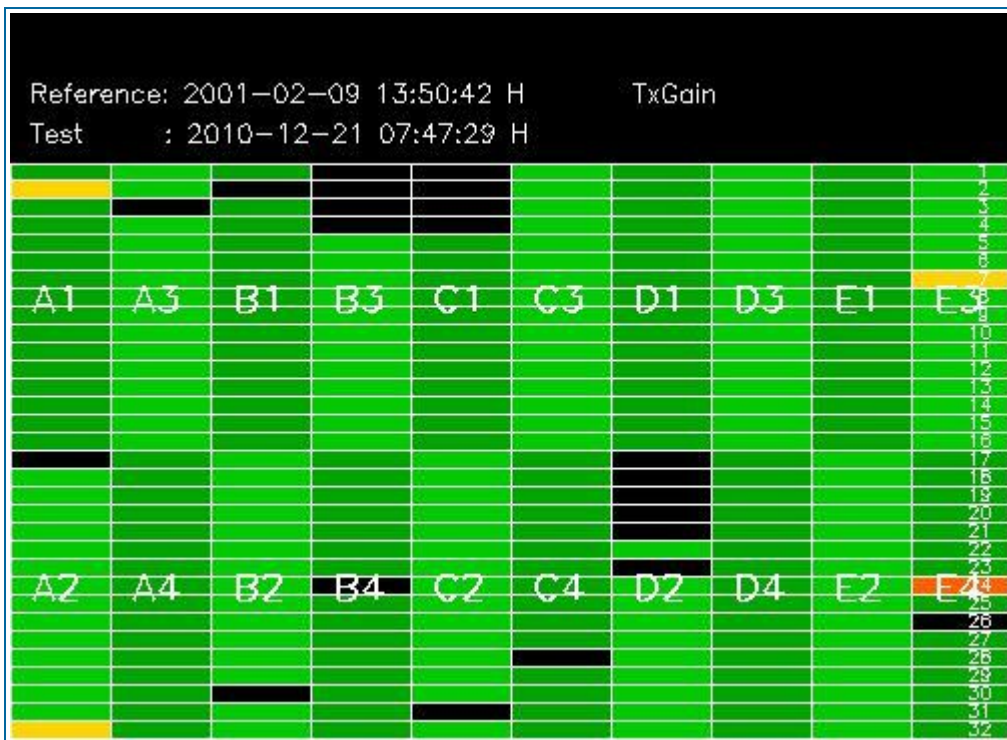
### 3.2 - H/H polarisation

[ [BACK TO MENU](#) ]

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







## 4 - CALIBRATION PULSES ANALYSIS

### 4.1 - Analysis for WVS IS2 V/V

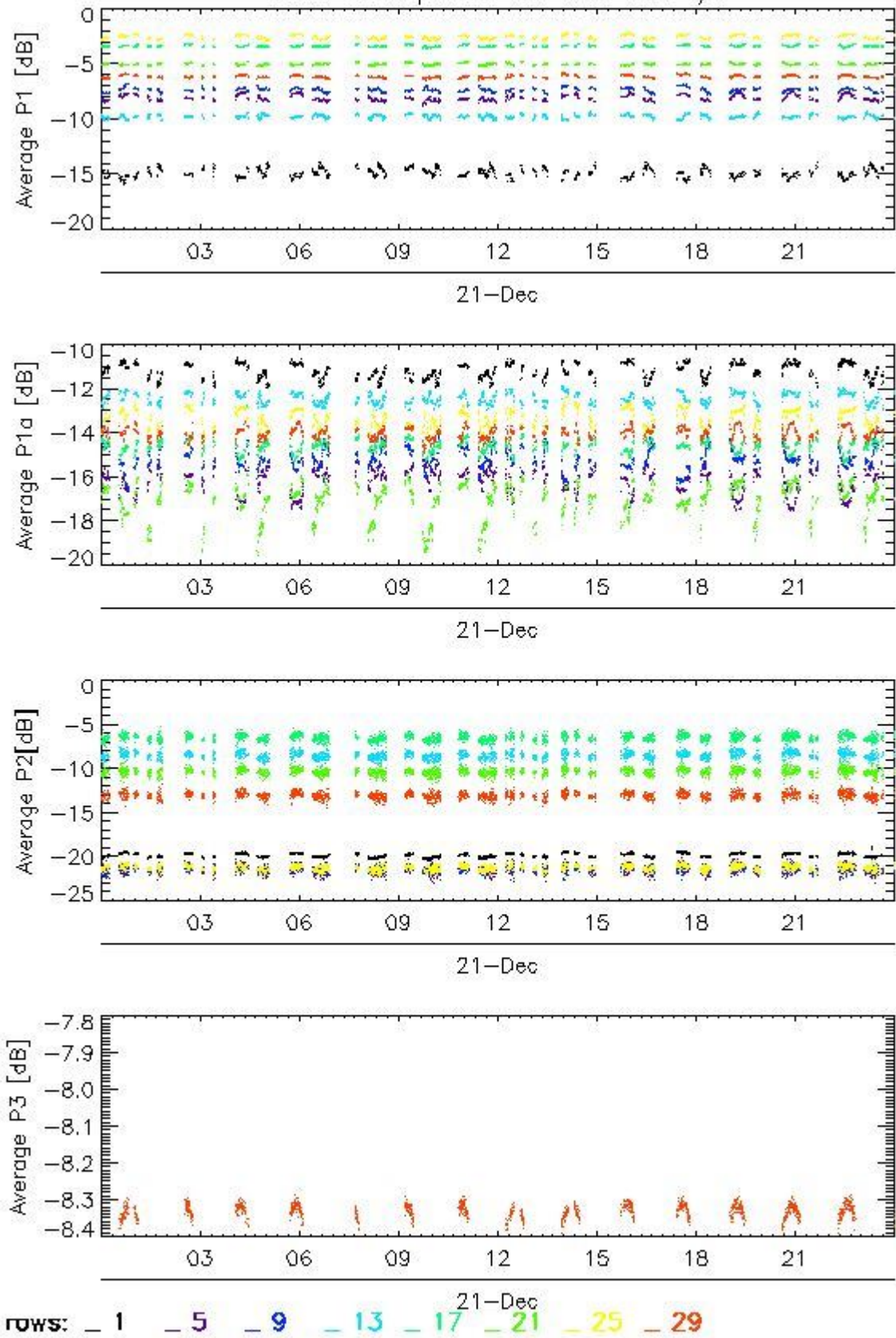
#### 4.1.1 - Temporal Evolution Analysis for WVS IS2 V/V

[ BACK TO MENU ]

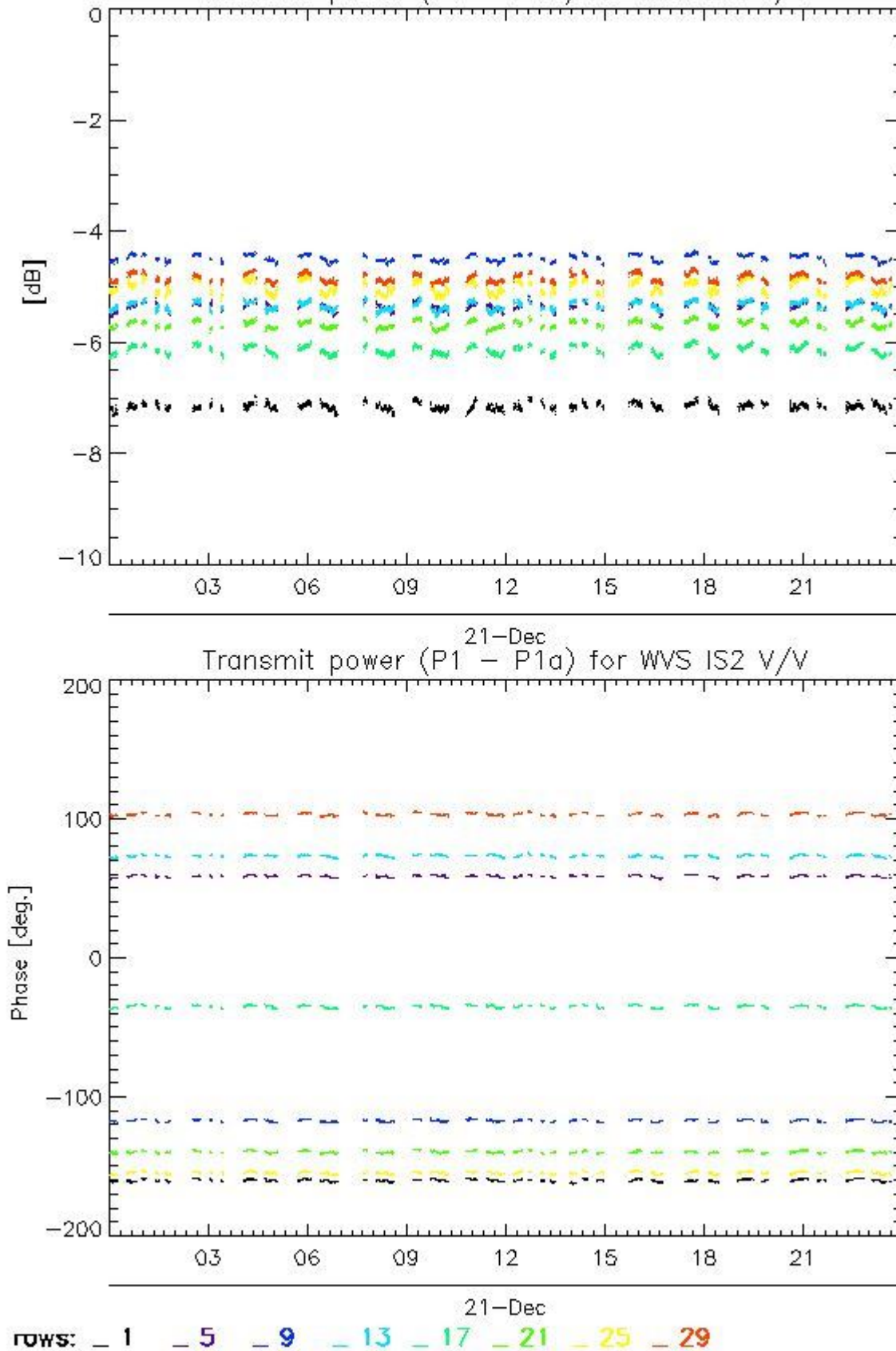
Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]

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]

Calibration pulses for WVS IS2 V/V



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

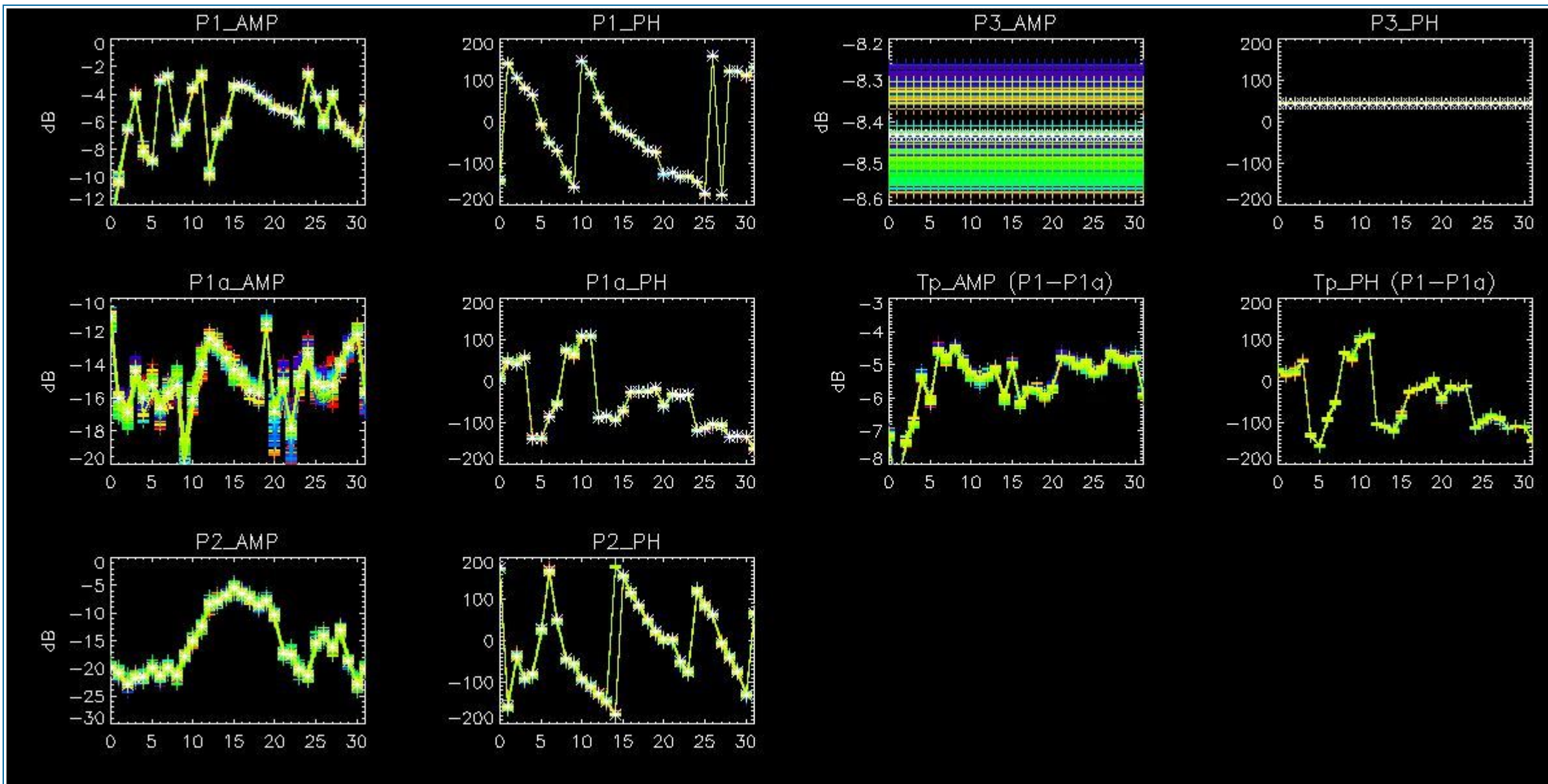


#### 4.1.2 - All Rows Analysis for WVS IS2 V/V

[ [BACK TO MENU](#) ]







## 4.2 - Analysis for GM1 SS3 H/H

### 4.2.1 - Temporal Evolution Analysis for GM1 SS3 H/H

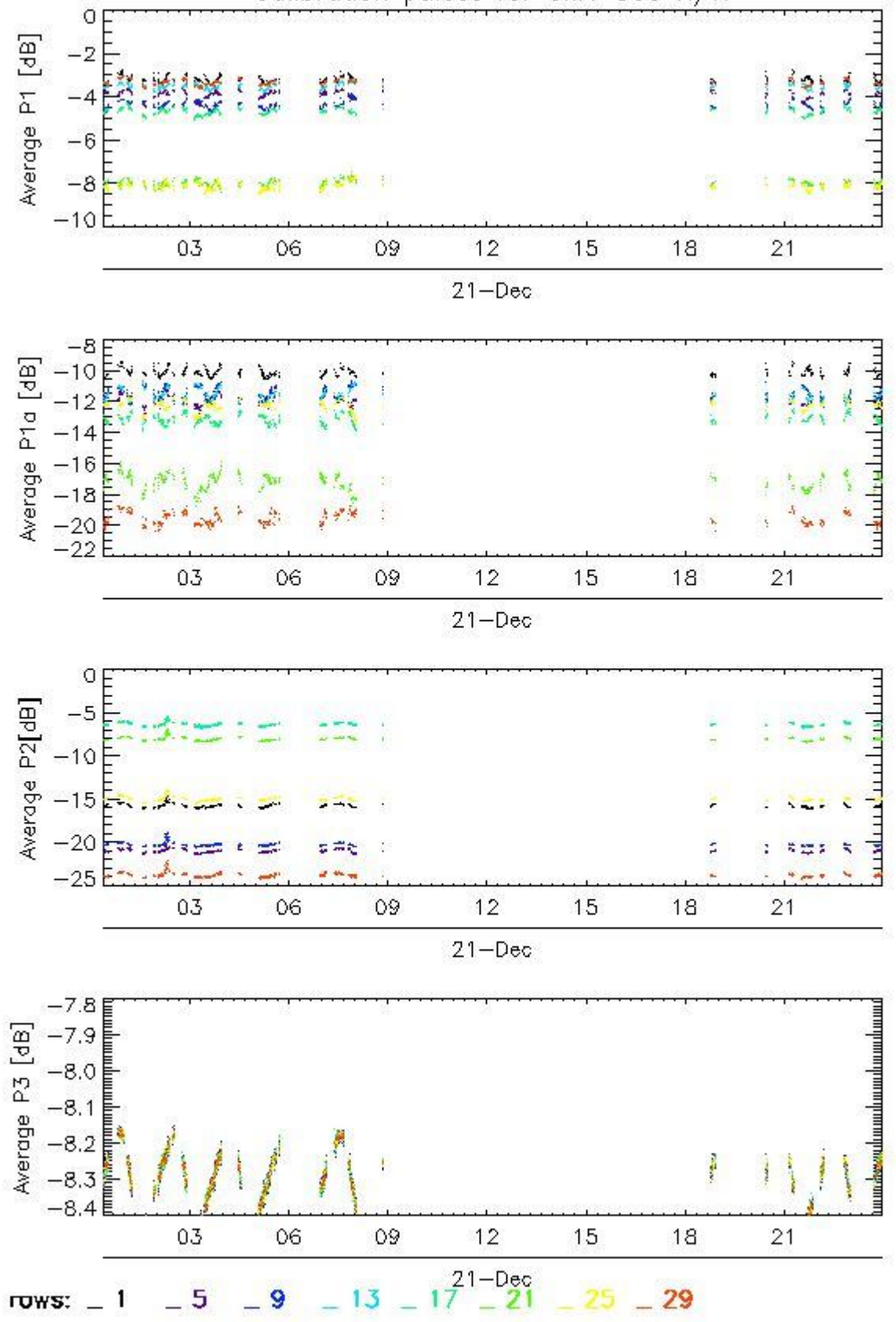
[ BACK TO MENU ]

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]

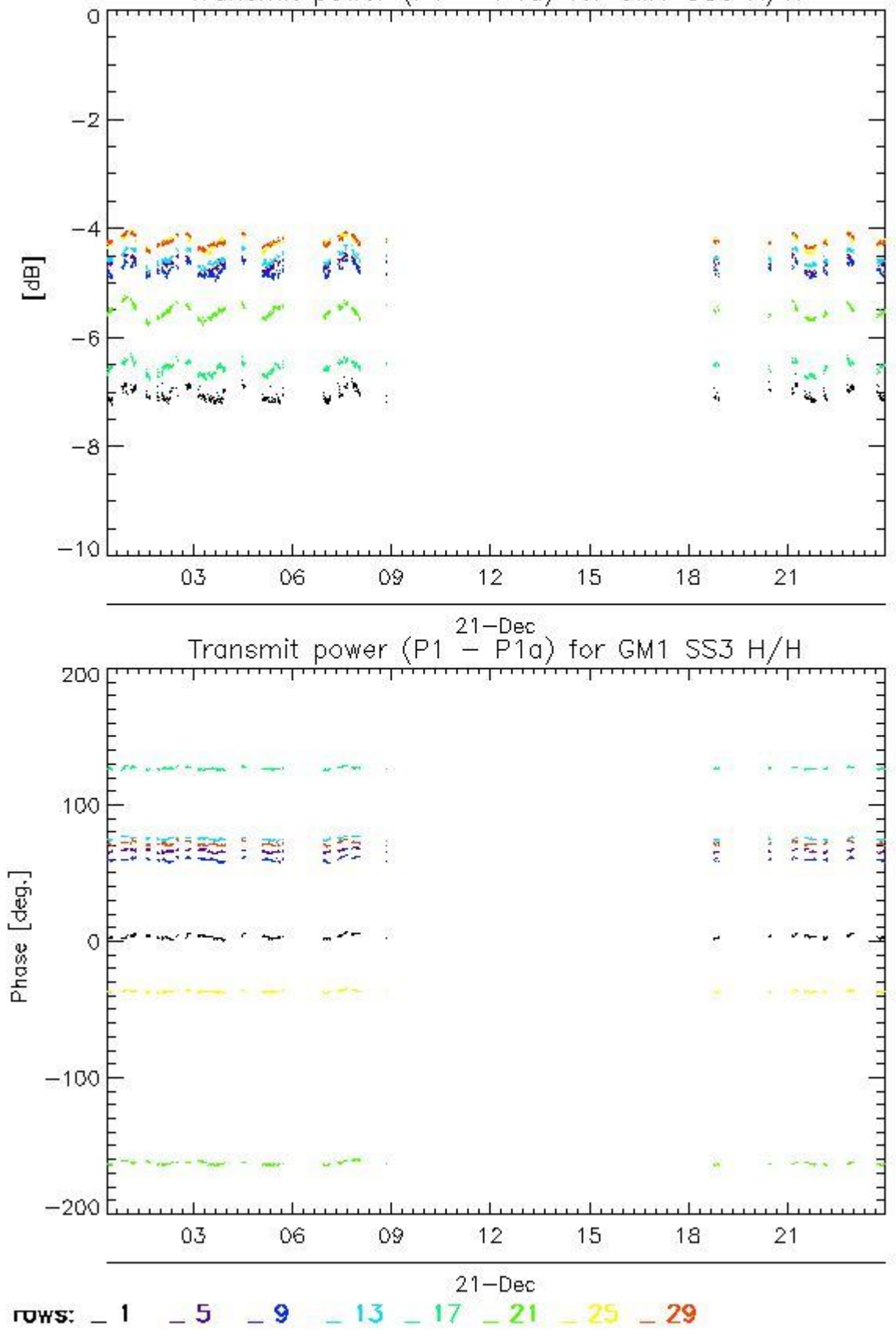
Rows: [2/6/10/14/18/22/26/30] [3/7/11/15/19/23/27/31] [4/8/12/16/20/24/28/32]



Calibration pulses for GM1 SS3 H/H



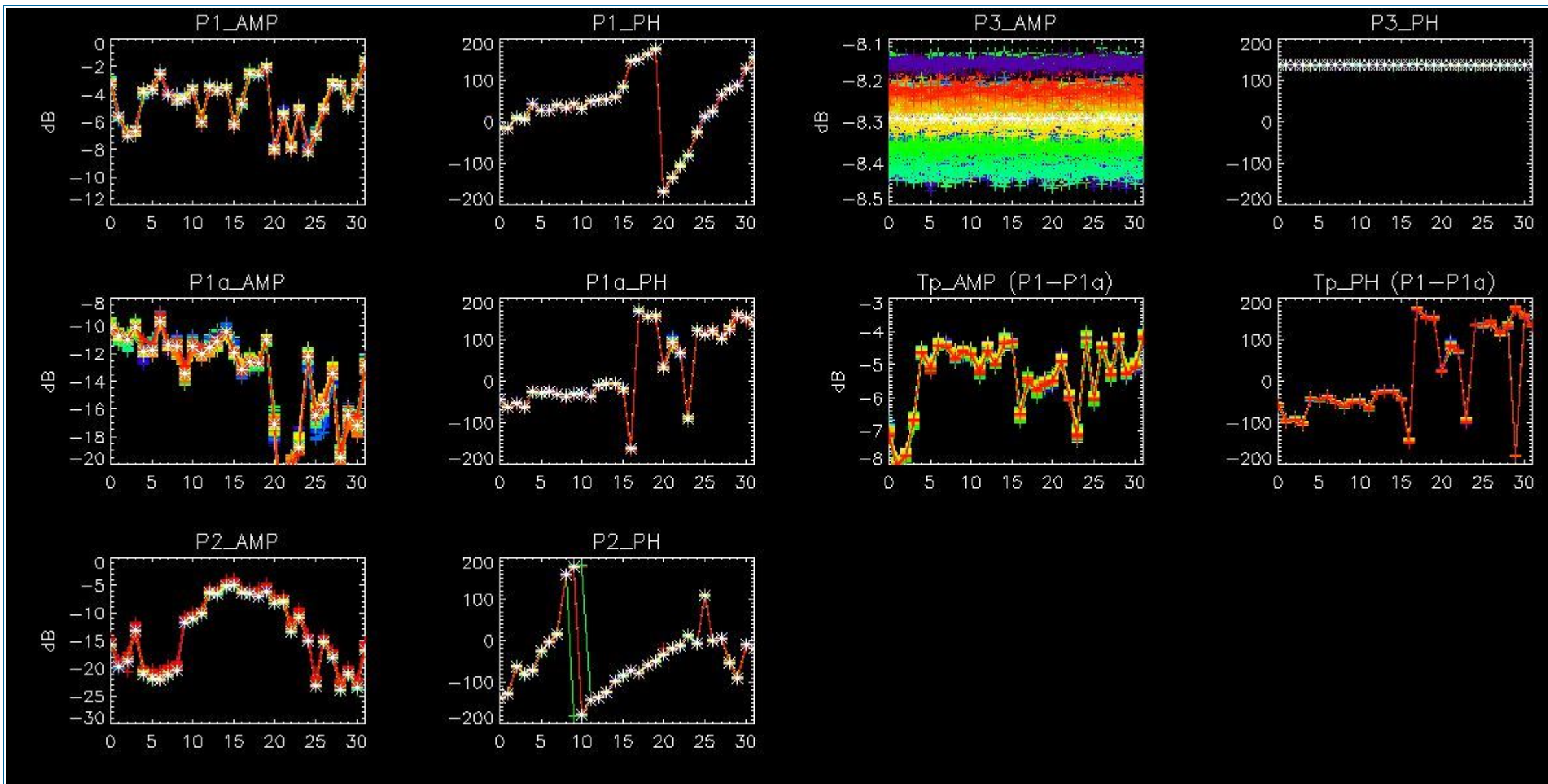
Transmit power (P1 - P1a) for GM1 SS3 H/H



4.2.2 - All Rows Analysis for GM1 SS3 H/H

[ BACK TO MENU ]





## 5 - DOPPLER ANALYSIS

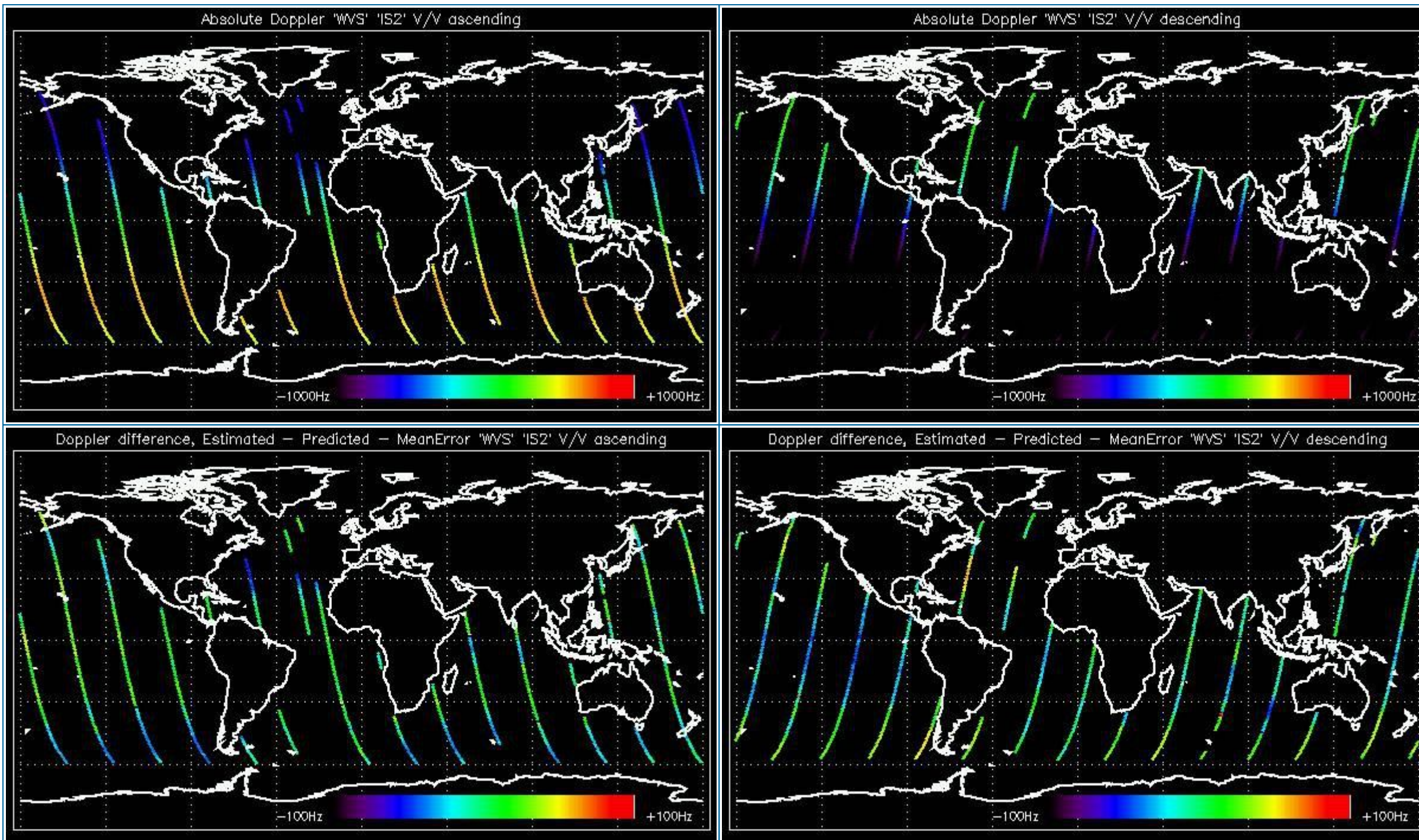
### 5.1 - Analysis for WVS IS2 V/V

#### 5.1.1 - Doppler MAP Analysis for WVS IS2 V/V

[ [BACK TO MENU](#) ]



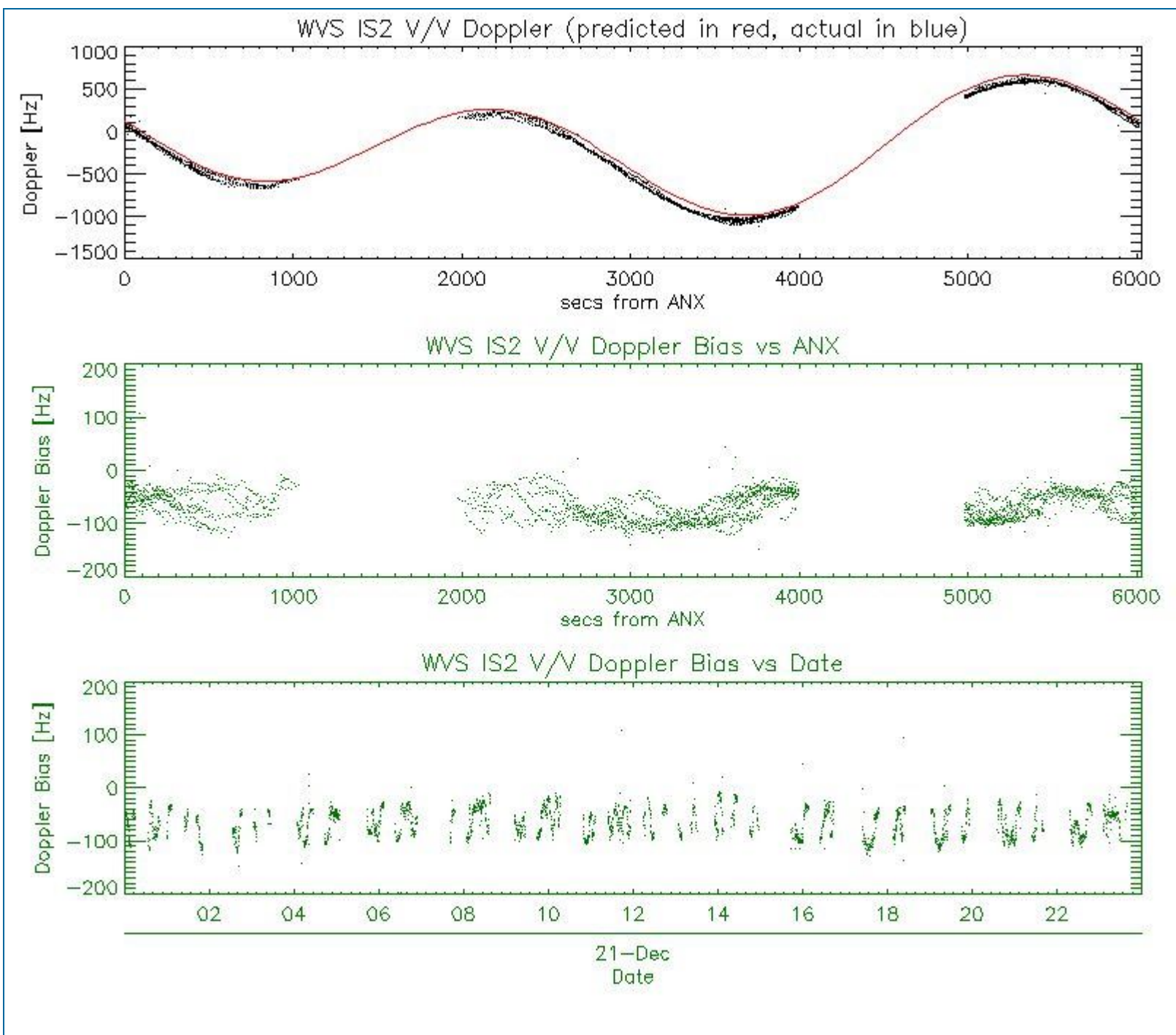




### 5.1.2 - Doppler ANX Analysis for WVS IS2 V/V

[ [BACK TO MENU](#) ]





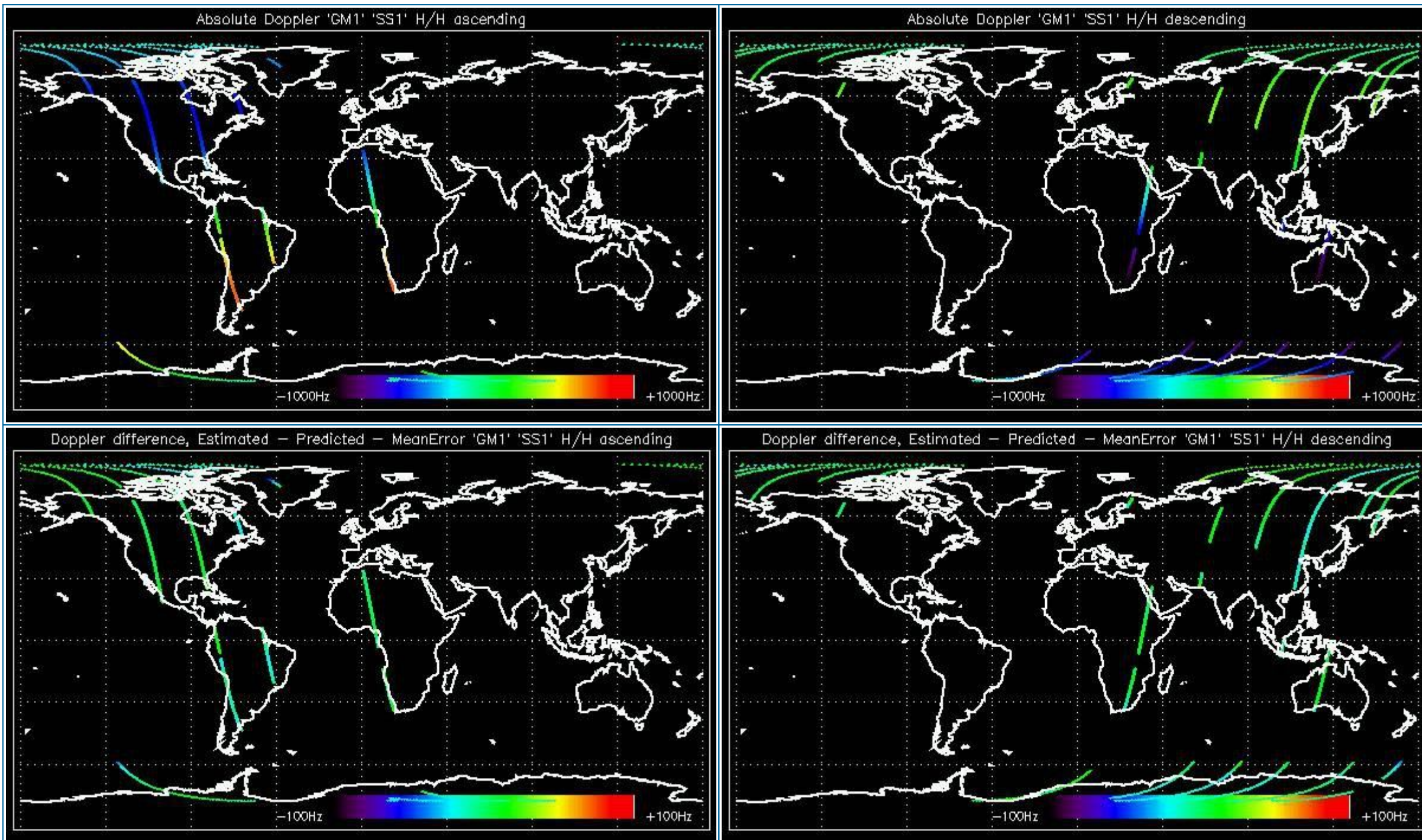
## 5.2 - Analysis for GM1 SS1 H/H

### 5.2.1 - Doppler MAP Analysis for GM1 SS1 H/H

[ [BACK TO MENU](#) ]



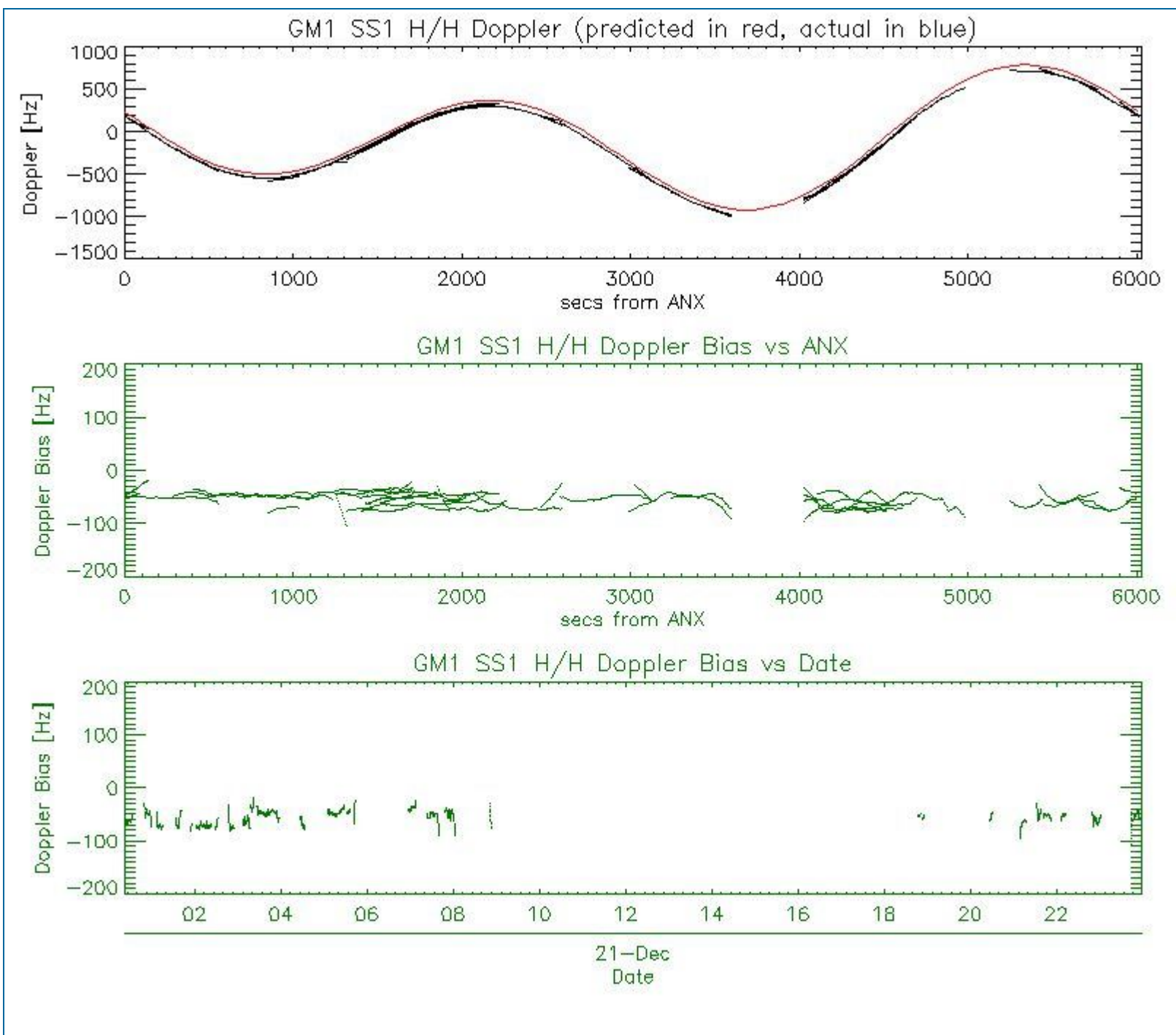




### 5.2.2 - Doppler ANX Analysis for GM1 SS1 H/H

[ [BACK TO MENU](#) ]



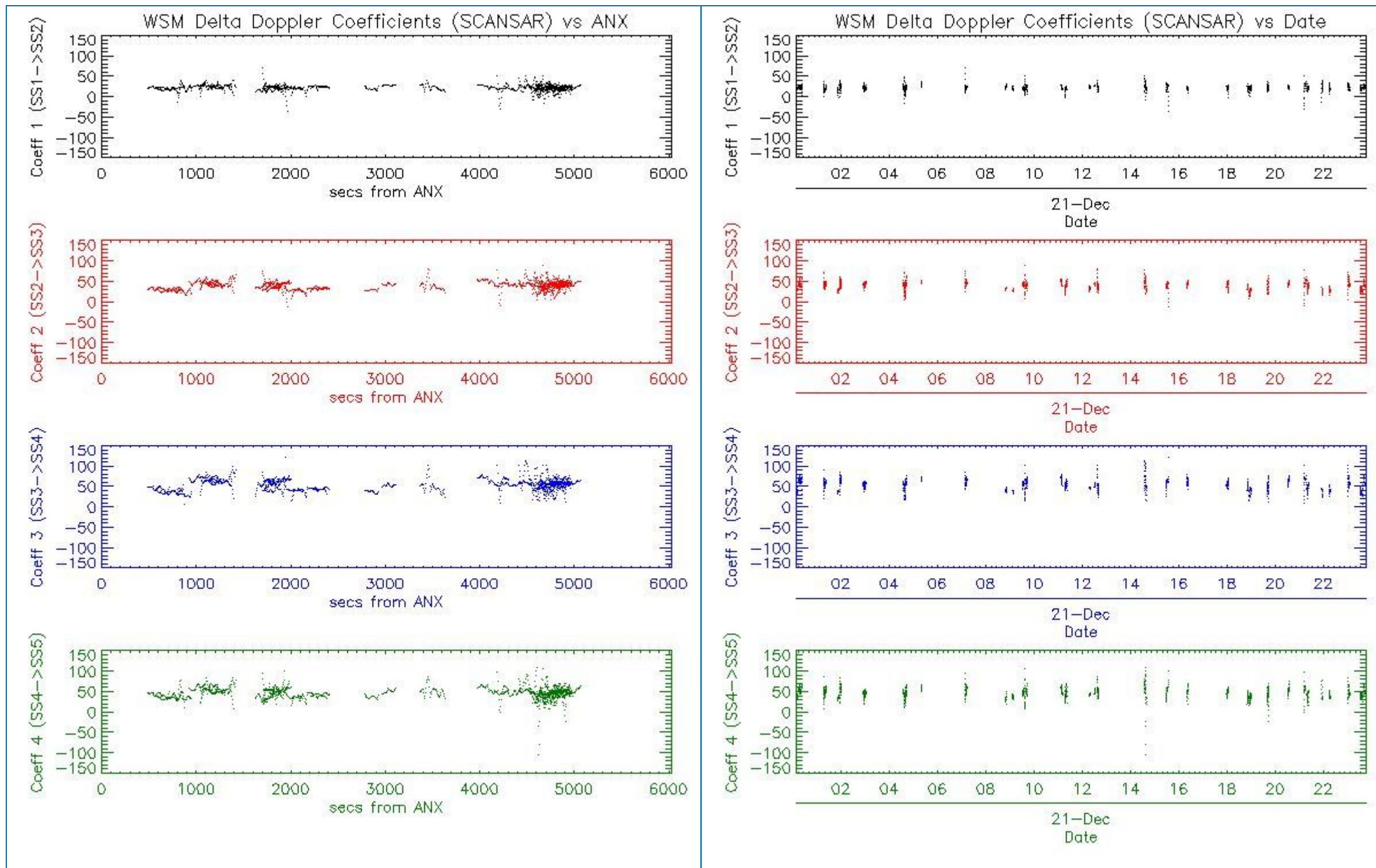


### 5.3 - Doppler JUMPS Analysis for WSM

[ BACK TO MENU ]

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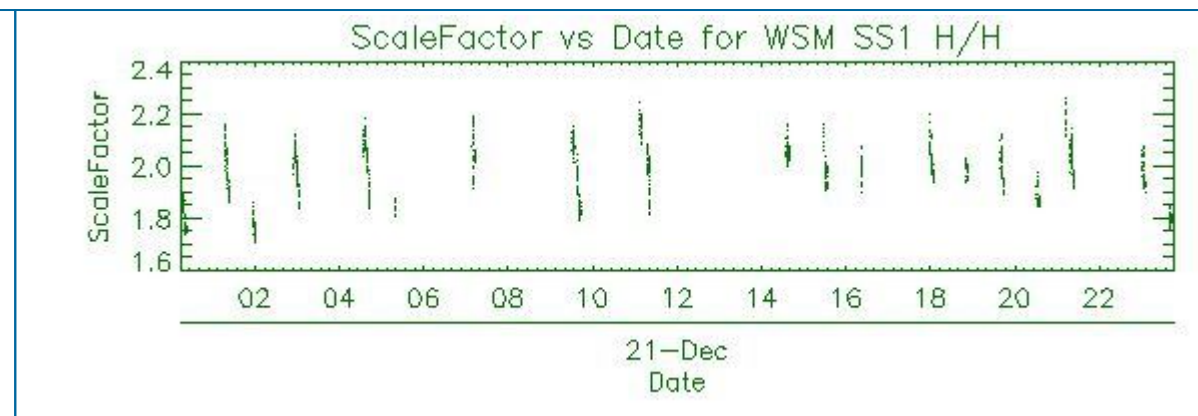
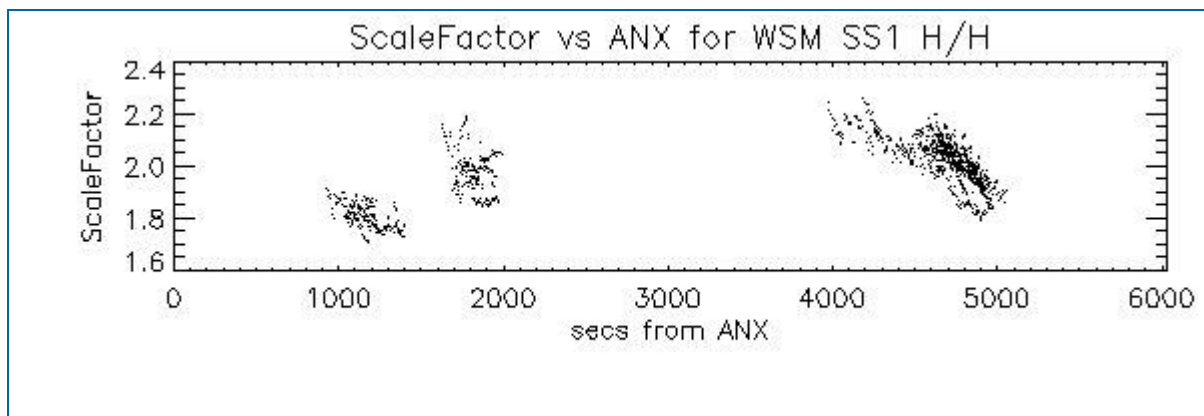
## 6 - CHIRP ANALYSIS

### 6.1 - Analysis for WSM SS1 H/H

#### 6.1.1 - ScaleFactor

[ BACK TO MENU ]

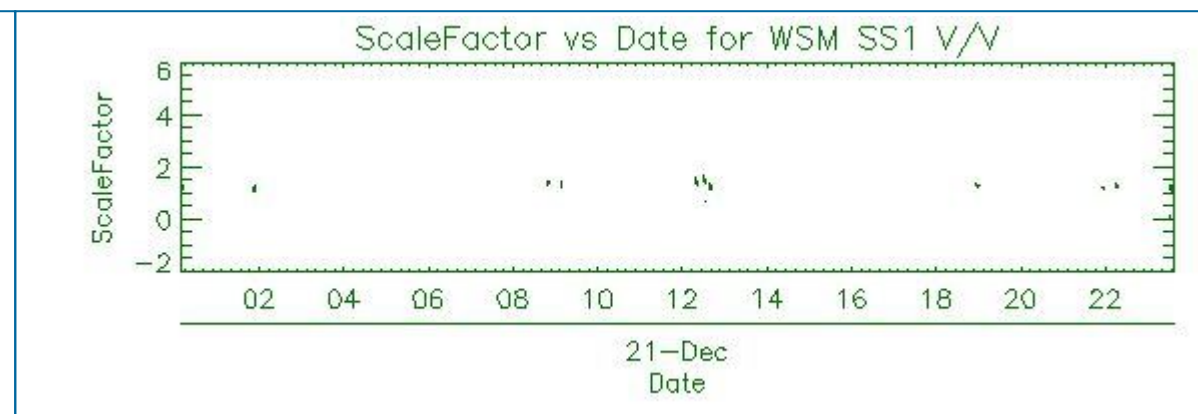
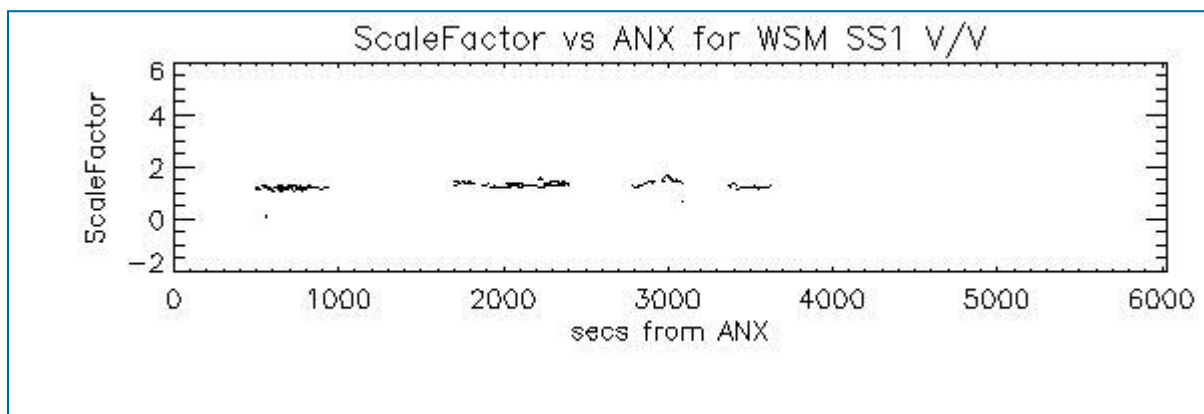




## 6.2 - Analysis for WSM SS1 V/V

### 6.2.1 - ScaleFactor

[ [BACK TO MENU](#) ]



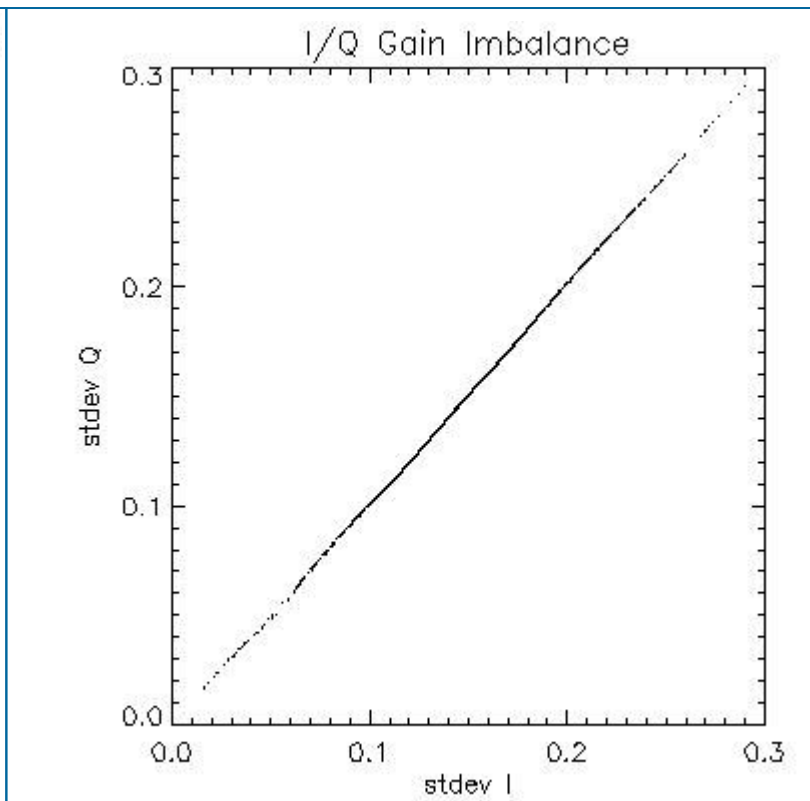
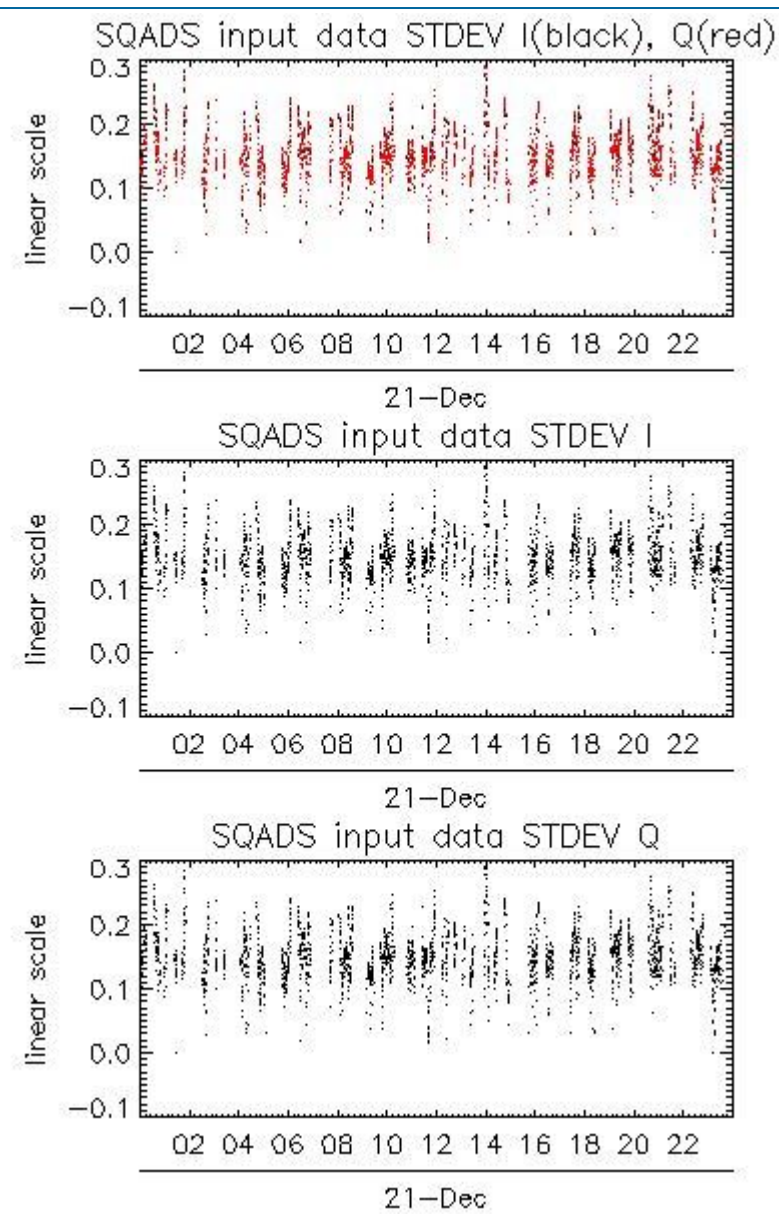
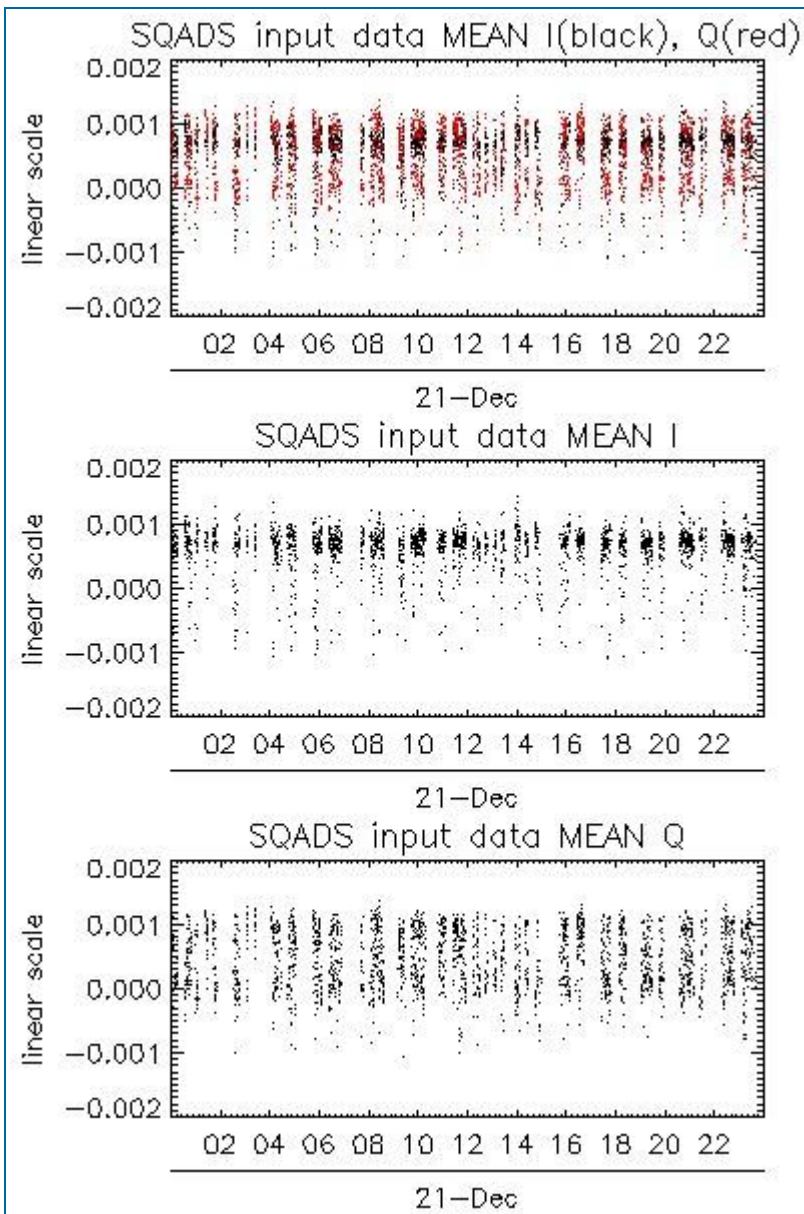
## 7 - RAW DATA ANALYSIS

### 7.1 - Analysis for WVS

[ [BACK TO MENU](#) ]

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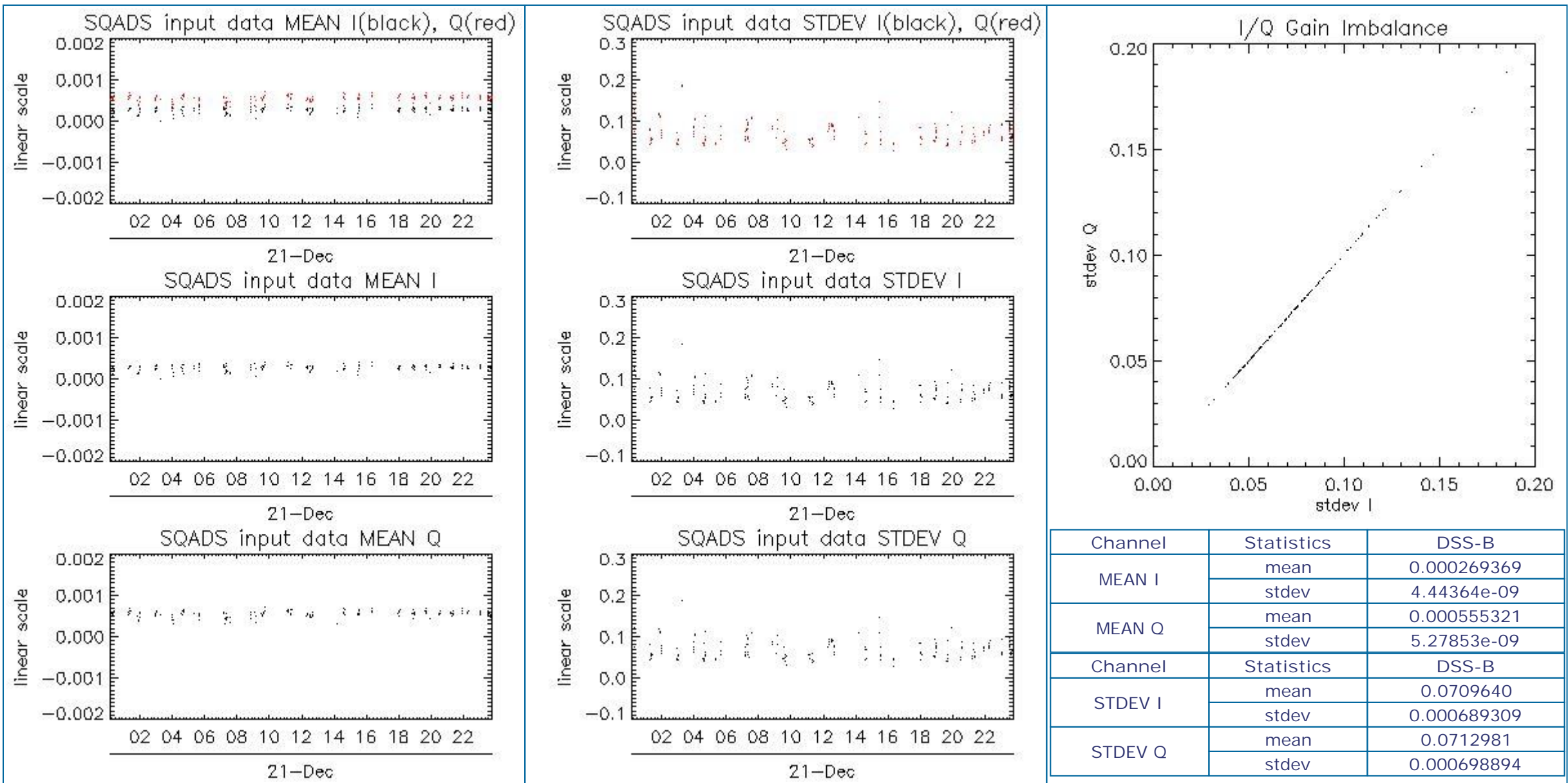


Channel	Statistics	DSS-B
MEAN I	mean	0.000618160
	stdev	1.29731e-07
MEAN Q	mean	0.000466375
	stdev	2.10299e-07
Channel	Statistics	DSS-B
STDEV I	mean	0.151803
	stdev	0.00157689
STDEV Q	mean	0.152401
	stdev	0.00160998

## 7.2 - Analysis for IMM

[ [BACK TO MENU](#) ]

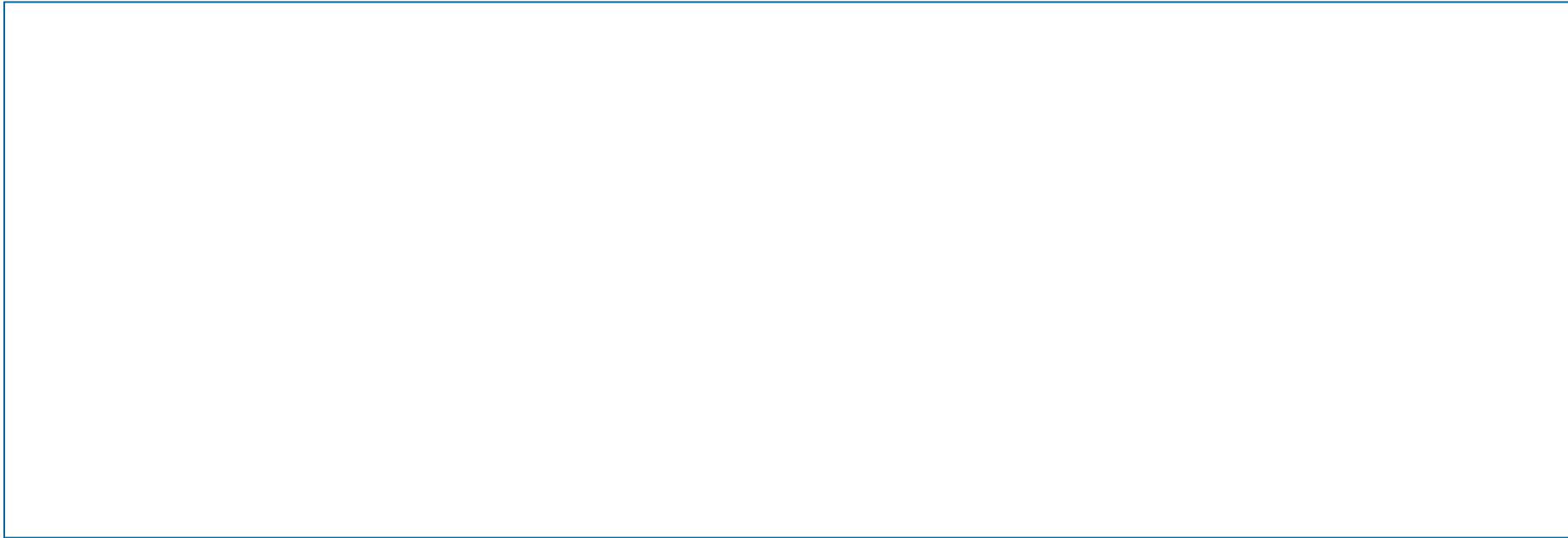




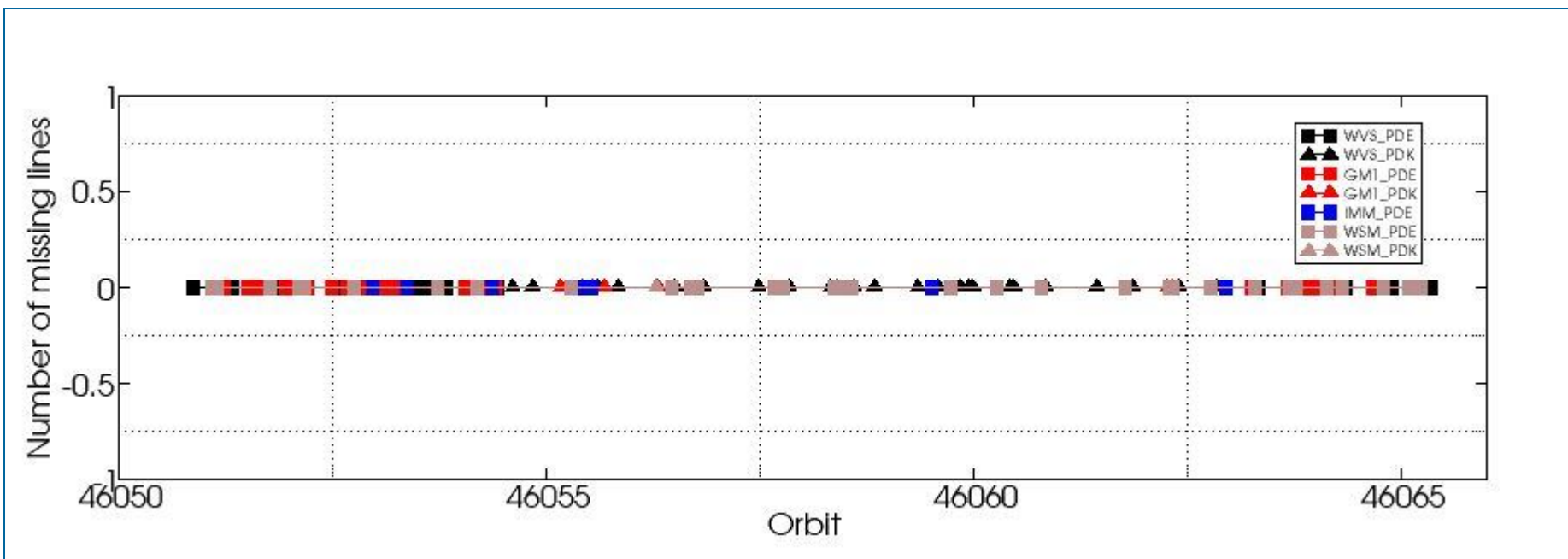
### 8 - TELEMETRY ANALYSIS

#### 8.1 - Number of Missing lines

[ BACK TO MENU ]

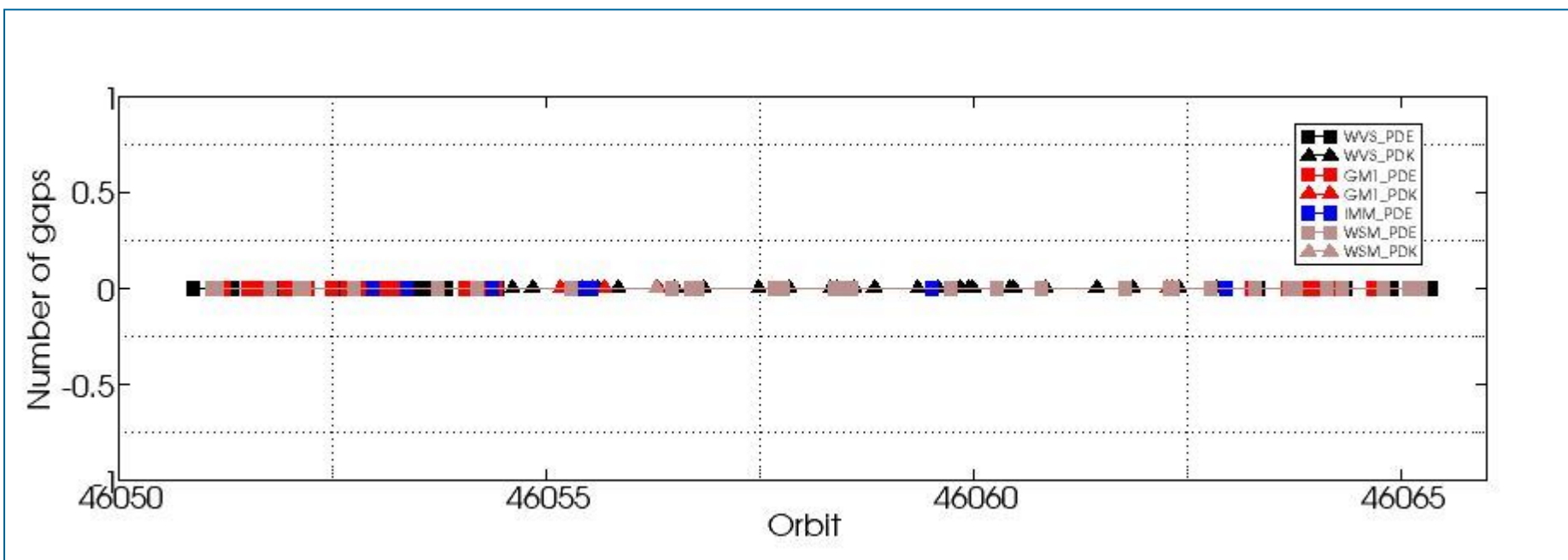






## 8.2 - Number of Gaps

[ [BACK TO MENU](#) ]



#####  
ASAR DAILY REPORT for 101221  
#####

MODE: DAILY  
ANALYSIS: ALL  
DATE: 2010-12-21 00:00:00

Analysis will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59  
Results will be exported to the directory: ./RESULTS/DAILY/\_101221/

DATA SUMMARY  
#####  
Summary will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59  
Results will be exported to the directory: ./RESULTS/DAILY/\_101221/DATA\_SUMMARY

Creating directory ./RESULTS/DAILY/\_101221/DATA\_SUMMARY...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/Data\_summary.html...

\*\*\*\*\*  
Getting WVS products list from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_WVS\_products\_used.xls...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_WVS\_products\_used.txt...

\*\*\*\*\*  
Getting GM1 products list from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_GM1\_products\_used.xls...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_GM1\_products\_used.txt...

\*\*\*\*\*  
Getting APM products list from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_APM\_products\_used.xls...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_APM\_products\_used.txt...

\*\*\*\*\*  
Getting IMM products list from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_IMM\_products\_used.xls...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_IMM\_products\_used.txt...

\*\*\*\*\*  
Getting WSM products list from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_WSM\_products\_used.xls...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_WSM\_products\_used.txt...

\*\*\*\*\*  
Getting MS products list from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_MS\_products\_used.xls...  
Writing file ./RESULTS/DAILY/\_101221/DATA\_SUMMARY/List\_MS\_products\_used.txt...

DATA SUMMARY completed  
#####

AUXILIARY FILES ANALYSIS  
#####  
Analysis will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59  
Results will be exported to the directory: ./RESULTS/DAILY/\_101221/AUXILIARY

Creating directory ./RESULTS/DAILY/\_101221/AUXILIARY...

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





ADF filter 20101221\*current\_3\_IECF\_ADFs.txt  
 Found list 20101221\_030000\_current\_3\_IECF\_ADFs.txt...  
 Extracting ADFs...

ASA\_CON\_AXVIEC20100608\_125449\_20100317\_120410\_20101231\_000000  
 ASA\_INS\_AXVIEC20101028\_095209\_20101022\_000000\_20101231\_235959  
 ASA\_XCH\_AXVIEC20091217\_113006\_20020301\_000000\_20101231\_000000  
 ASA\_XCA\_AXVIEC20101111\_113830\_20100601\_000000\_20141231\_000000

Writing file ./RESULTS/DAILY/\_101221/AUXILIARY/ASAR\_ADFs\_IECF\_List3.html...  
 Writing file ./RESULTS/DAILY/\_101221/AUXILIARY/Auxiliary\_files\_summary.html...

\*\*\*\*\*

Analysing WVS products...

Writing file ./RESULTS/DAILY/\_101221/AUXILIARY/Check\_ADFs\_WVS.xls...  
 Writing file ./RESULTS/DAILY/\_101221/AUXILIARY/Check\_ADFs\_WVS.txt...

ASA_WVS_1PNPDE20101221_001121_000001653097_00347_46051_6160.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_001121_000001653097_00347_46051_6165.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_001121_000001653097_00347_46051_6172.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_003312_000009473097_00347_46051_6158.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_003312_000009473097_00347_46051_6163.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_003312_000009473097_00347_46051_6170.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_005927_000003903097_00347_46051_6155.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_012354_000002093097_00347_46051_6162.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_012354_000002093097_00347_46051_6167.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_012354_000002093097_00347_46051_6174.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_012624_000002103097_00347_46051_6182.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_014111_000005543097_00348_46052_6187.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_023209_000003893097_00348_46052_6188.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_023824_000004653097_00348_46052_6213.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_030241_000002253097_00348_46052_6212.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_032219_000002243097_00349_46053_6210.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_040418_000010643097_00349_46053_6208.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_042148_00000303097_00349_46053_6231.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_042520_00000603097_00349_46053_6230.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_044300_000012743097_00349_46053_6226.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_054324_000010493097_00350_46054_6225.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_203549_000019643097_00359_46063_6324.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_212515_000003003097_00359_46063_6322.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_212946_000001203097_00359_46063_6338.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_213829_000001193097_00359_46063_6342.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_221802_000018443097_00360_46064_6344.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_221802_000018443097_00360_46064_6345.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_221802_000018443097_00360_46064_6348.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_230529_000003593097_00360_46064_6346.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_230529_000003593097_00360_46064_6349.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_231030_000011843097_00360_46064_6361.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_233721_000001053097_00361_46065_6366.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_233721_000001053097_00361_46065_6368.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDE20101221_235833_000008693097_00361_46065_6378.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_060039_000003603097_00350_46054_8247.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_062318_000018293097_00350_46054_8255.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_074022_000003903097_00351_46055_8273.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_080332_000020543097_00351_46055_8275.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_091124_000009443097_00352_46056_8308.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_094337_000019943097_00352_46056_8315.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_104849_000010493097_00353_46057_8330.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_112400_000019493097_00353_46057_8334.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_121357_000001953097_00354_46058_8362.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_122121_000004943097_00354_46058_8363.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_124143_000003453097_00354_46058_8365.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_130414_000003003097_00354_46058_8368.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_132116_000005203097_00355_46059_8371.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_135515_000007493097_00355_46059_8393.N1	ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK

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ASA_WVS_1PNPDK20101221_141911_000005103097_00355_46059_8396.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_144428_000003753097_00355_46059_8398.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_145518_000001643097_00355_46059_8402.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_154341_000000743097_00356_46060_8428.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_154821_000011693097_00356_46060_8430.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_162442_000011393097_00356_46060_8433.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_172450_000013943097_00357_46061_8459.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_180735_000010793097_00357_46061_8462.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_190147_000016043097_00358_46062_8516.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WVS_1PNPDK20101221_194501_000006603097_00358_46062_8519.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
```

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Analysing GM1 products...

Writing file ./RESULTS/DAILY/\_101221/AUXILIARY/Check\_ADFs\_GM1.xls...

Writing file ./RESULTS/DAILY/\_101221/AUXILIARY/Check\_ADFs\_GM1.txt...

```
ASA_GM1_1PNPDE20101221_002247_000006223097_00347_46051_6159.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_002247_000006223097_00347_46051_6171.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_002247_000006223097_00347_46051_6181.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_004949_000005733097_00347_46051_6156.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_010635_000005793097_00347_46051_6168.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_013338_000004533097_00347_46051_6185.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_015344_000001933097_00348_46052_6184.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_020134_000012813097_00348_46052_6186.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_022926_000001633097_00348_46052_6191.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_024645_000004953097_00348_46052_6217.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_030712_000001933097_00348_46052_6216.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_031025_000004043097_00348_46052_6215.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_031756_000002593097_00348_46052_6214.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_032641_000008223097_00349_46053_6211.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_034109_000009913097_00349_46053_6209.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_050455_000008463097_00350_46054_6232.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_052053_000004653097_00350_46054_6229.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_053214_000002893097_00350_46054_6228.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_054114_000001263097_00350_46054_6227.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_202726_000001933097_00359_46063_6327.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_210921_000001503097_00359_46063_6325.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_211408_000002593097_00359_46063_6323.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_213234_000003503097_00359_46063_6337.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_214117_000006283097_00359_46063_6339.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_220625_000004223097_00360_46064_6343.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_224936_000006713097_00360_46064_6347.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_224936_000006713097_00360_46064_6350.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_234331_000000723097_00361_46065_6362.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDE20101221_234626_000007253097_00361_46065_6363.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDK20101221_065658_000007013097_00351_46055_8251.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDK20101221_072318_000005493097_00351_46055_8271.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDK20101221_073422_000003563097_00351_46055_8272.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDK20101221_074847_000008823097_00351_46055_8274.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDK20101221_085126_000000783097_00352_46056_8303.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDK20101221_184725_000001813097_00358_46062_8507.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_GM1_1PNPDK20101221_185328_000001143097_00358_46062_8515.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
```

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Analysing APM products...

No APM products available for the selected period...

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Analysing IMM products...

Writing file ./RESULTS/DAILY/\_101221/AUXILIARY/Check\_ADFs\_IMM.xls...

Writing file ./RESULTS/DAILY/\_101221/AUXILIARY/Check\_ADFs\_IMM.txt...



```
ASA_IMM_1PNPDE20101221_031709_000000383097_00348_46052_6201.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_IMM_1PNPDE20101221_035740_000003633097_00349_46053_6199.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_IMM_1PNPDE20101221_053704_000002363097_00350_46054_6221.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_IMM_1PNPDE20101221_071655_000003733097_00351_46055_6245.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_IMM_1PNPDE20101221_073224_000001063097_00351_46055_6246.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_IMM_1PNPDE20101221_141304_000000393097_00355_46059_6312.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_IMM_1PNPDE20101221_195727_000000463097_00358_46062_6319.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
```

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Analysing WSM products...

Writing file ./RESULTS/DAILY/\_101221/AUXILIARY/Check\_ADFs\_WSM.xls...

Writing file ./RESULTS/DAILY/\_101221/AUXILIARY/Check\_ADFs\_WSM.txt...

```
ASA_WSM_1PNPDE20101221_000851_000001533097_00347_46051_6151.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_001451_000004713097_00347_46051_6154.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_011622_000004533097_00347_46051_6157.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_015106_000001533097_00348_46052_6183.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_015700_000002693097_00348_46052_6189.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_025507_000004533097_00348_46052_6198.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_043327_000005753097_00349_46053_6222.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_051907_000000983097_00350_46054_6223.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_051907_000000983097_00350_46054_6224.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_070841_000003123097_00351_46055_6243.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_090657_000001473097_00352_46056_6267.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_093035_000002323097_00352_46056_6288.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_093711_000003673097_00352_46056_6289.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_110701_000002323097_00353_46057_6290.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_111651_000003303097_00353_46057_6307.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_121751_000002083097_00354_46058_6308.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_123023_000001533097_00354_46058_6309.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_123712_000002693097_00354_46058_6310.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_143451_000002943097_00355_46059_6313.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_152835_000003493097_00356_46060_6314.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_162051_000001533097_00356_46060_6311.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_175841_000003553097_00357_46061_6315.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_185027_000001773097_00358_46062_6318.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_185528_000003733097_00358_46062_6320.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_193920_000003003097_00358_46062_6317.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_203045_000002753097_00359_46063_6326.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_211158_000001283097_00359_46063_6330.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_211834_000003493097_00359_46063_6321.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_215549_000001533097_00360_46064_6336.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_221332_000002693097_00360_46064_6341.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_230051_000002693097_00360_46064_6340.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_233051_000003923097_00361_46065_6358.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_233951_000002143097_00361_46065_6359.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDE20101221_234451_000000923097_00361_46065_6360.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
ASA_WSM_1PNPDK20101221_084851_000001533097_00352_46056_8279.N1 ASA_CON -> OKASA_INS -> OKASA_XCH -> OKASA_XCA -> OK
```

AUXILIARY FILES ANALYSIS completed

#####

MODULE STEPPING ANALYSIS

#####

Analysis will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59

Results will be exported to the directory: ./RESULTS/DAILY/\_101221/MODULE\_STEPPING

Creating directory ./RESULTS/DAILY/\_101221/MODULE\_STEPPING...

Creating directory ./RESULTS/DAILY/\_101221/MODULE\_STEPPING/FIRST\_REFERENCE...



Creating directory ./RESULTS/DAILY/\_101221/MODULE\_STEPPING/SECOND\_REFERENCE...  
 Creating directory ./RESULTS/DAILY/\_101221/MODULE\_STEPPING/PREVIOUS\_PRODUCT\_REFERENCE...  
 Deleting old files...

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Creating images comparing with second reference...

Exporting results to the directory ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/SECOND\_REFERENCE...

Polarization: H  
 Reference product: ASA\_MS\_\_0PNPDK20010209\_135042\_0000009A024\_00180\_11700\_0052.N1  
 Test product: ASA\_MS\_\_0PNPDK20101221\_074729\_000000163097\_00351\_46055\_0364.N1

H  
 H  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/SECOND\_REFERENCE/TGH\_20101221\_074729-20010209\_135042.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/SECOND\_REFERENCE/TPH\_20101221\_074729-20010209\_135042.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/SECOND\_REFERENCE/RGH\_20101221\_074729-20010209\_135042.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/SECOND\_REFERENCE/RPH\_20101221\_074729-20010209\_135042.png

Polarization: V  
 Reference product: ASA\_MS\_\_0PNPDK20010209\_140823\_0000009A024\_00180\_11700\_0054.N1  
 Test product: ASA\_MS\_\_0PNPDK20101221\_092743\_000000163097\_00352\_46056\_0365.N1

V  
 V  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/SECOND\_REFERENCE/TGV\_20101221\_092743-20010209\_140823.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/SECOND\_REFERENCE/TPV\_20101221\_092743-20010209\_140823.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/SECOND\_REFERENCE/RGV\_20101221\_092743-20010209\_140823.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/SECOND\_REFERENCE/RPV\_20101221\_092743-20010209\_140823.png

\*\*\*\*\*  
 \*\*\*\*\*

Creating images comparing with previous product reference...

Exporting results to the directory ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/PREVIOUS\_PRODUCT\_REFERENCE...

Polarization: H  
 Reference product: ASA\_MS\_\_0PNPDK20101220\_082412\_000000163097\_00337\_46041\_0362.N1  
 Test product: ASA\_MS\_\_0PNPDK20101221\_074729\_000000163097\_00351\_46055\_0364.N1

H  
 H  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/PREVIOUS\_PRODUCT\_REFERENCE/TGH\_20101221\_074729-20101220\_082412.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/PREVIOUS\_PRODUCT\_REFERENCE/TPH\_20101221\_074729-20101220\_082412.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/PREVIOUS\_PRODUCT\_REFERENCE/RGH\_20101221\_074729-20101220\_082412.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/PREVIOUS\_PRODUCT\_REFERENCE/RPH\_20101221\_074729-20101220\_082412.png

Polarization: V  
 Reference product: ASA\_MS\_\_0PNPDK20101220\_100426\_000000163097\_00338\_46042\_0363.N1  
 Test product: ASA\_MS\_\_0PNPDK20101221\_092743\_000000163097\_00352\_46056\_0365.N1

V  
 V  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/PREVIOUS\_PRODUCT\_REFERENCE/TGV\_20101221\_092743-20101220\_100426.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/PREVIOUS\_PRODUCT\_REFERENCE/TPV\_20101221\_092743-20101220\_100426.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/PREVIOUS\_PRODUCT\_REFERENCE/RGV\_20101221\_092743-20101220\_100426.png  
 ../../RESULTS/DAILY/\_101221/MODULE\_STEPPING/PREVIOUS\_PRODUCT\_REFERENCE/RPV\_20101221\_092743-20101220\_100426.png

MODULE\_STEPPING ANALYSIS completed  
 #####

CALIBRATION PULSES ANALYSIS  
 #####  
 Creating directory ./RESULTS/DAILY/\_101221/CALIBRATION\_PULSES...

\*\*\*\*\*

\*\*\*\*\*

ALL ROWS Analysis will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59

Analysing products WVS IS2 V/V

Writing image ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Calibration\_pulses\_all\_rows\_WVS\_IS2\_VV.png...

Analysing products GM1 SS3 H/H

Writing image ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Calibration\_pulses\_all\_rows\_GM1\_SS3\_HH.png...

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TEMPORAL EVOLUTION Analysis will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59

Analysing products WVS IS2 V/V

Getting calibration pulses data for WVS IS2 V/V from 2010-12-21 00:00:00 to 2010-12-21 23:59:59. Rows: 1/5/9/13/17/21/25/29

Writing file ./RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Calibration\_pulses\_data\_WVS\_IS2\_VV\_2010-12-21\_1.dat...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Average\_P1\_P1a\_P2\_P3\_WVS\_IS2\_VV\_1.png...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Transmit\_Power\_WVS\_IS2\_VV\_1.png...

Getting calibration pulses data for WVS IS2 V/V from 2010-12-21 00:00:00 to 2010-12-21 23:59:59. Rows: 2/6/10/14/18/22/26/30

Writing file ./RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Calibration\_pulses\_data\_WVS\_IS2\_VV\_2010-12-21\_2.dat...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Average\_P1\_P1a\_P2\_P3\_WVS\_IS2\_VV\_2.png...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Transmit\_Power\_WVS\_IS2\_VV\_2.png...

Getting calibration pulses data for WVS IS2 V/V from 2010-12-21 00:00:00 to 2010-12-21 23:59:59. Rows: 3/7/11/15/19/23/27/31

Writing file ./RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Calibration\_pulses\_data\_WVS\_IS2\_VV\_2010-12-21\_3.dat...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Average\_P1\_P1a\_P2\_P3\_WVS\_IS2\_VV\_3.png...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Transmit\_Power\_WVS\_IS2\_VV\_3.png...

Getting calibration pulses data for WVS IS2 V/V from 2010-12-21 00:00:00 to 2010-12-21 23:59:59. Rows: 4/8/12/16/20/24/28/32

Writing file ./RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Calibration\_pulses\_data\_WVS\_IS2\_VV\_2010-12-21\_4.dat...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Average\_P1\_P1a\_P2\_P3\_WVS\_IS2\_VV\_4.png...

Writing ../../RESULTS/DAILY/\_101221/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 2010-12-21 00:00:00 to 2010-12-21 23:59:59. Rows: 1/5/9/13/17/21/25/29

Writing file ./RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Calibration\_pulses\_data\_GM1\_SS3\_HH\_2010-12-21\_1.dat...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Average\_P1\_P1a\_P2\_P3\_GM1\_SS3\_HH\_1.png...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Transmit\_Power\_GM1\_SS3\_HH\_1.png...

Getting calibration pulses data for GM1 SS3 H/H from 2010-12-21 00:00:00 to 2010-12-21 23:59:59. Rows: 2/6/10/14/18/22/26/30

Writing file ./RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Calibration\_pulses\_data\_GM1\_SS3\_HH\_2010-12-21\_2.dat...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Average\_P1\_P1a\_P2\_P3\_GM1\_SS3\_HH\_2.png...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Transmit\_Power\_GM1\_SS3\_HH\_2.png...

Getting calibration pulses data for GM1 SS3 H/H from 2010-12-21 00:00:00 to 2010-12-21 23:59:59. Rows: 3/7/11/15/19/23/27/31

Writing file ./RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Calibration\_pulses\_data\_GM1\_SS3\_HH\_2010-12-21\_3.dat...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Average\_P1\_P1a\_P2\_P3\_GM1\_SS3\_HH\_3.png...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Transmit\_Power\_GM1\_SS3\_HH\_3.png...

Getting calibration pulses data for GM1 SS3 H/H from 2010-12-21 00:00:00 to 2010-12-21 23:59:59. Rows: 4/8/12/16/20/24/28/32

Writing file ./RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Calibration\_pulses\_data\_GM1\_SS3\_HH\_2010-12-21\_4.dat...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Average\_P1\_P1a\_P2\_P3\_GM1\_SS3\_HH\_4.png...

Writing ../../RESULTS/DAILY/\_101221/CALIBRATION\_PULSES/Transmit\_Power\_GM1\_SS3\_HH\_4.png...

CALIBRATION PULSES ANALYSIS completed

#####



DOPPLER ANALYSIS

#####

Creating directory ./RESULTS/DAILY/\_101221/DOPPLER...

\*\*\*\*\*  
\*\*\*\*\*

DOPPLER ANX Analysis will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59

Analysing products WVS IS2 V/V

Getting doppler data for WVS IS2 V/V from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...

Writing file ./RESULTS/DAILY/\_101221/DOPPLER/Doppler\_data\_WVS\_IS2\_VV\_2010-12-21.dat...

Running IDL program...

Writing file ../../RESULTS/DAILY/\_101221/DOPPLER/DOPPLER\_ANX\_WVS\_IS2\_VV.png...

Analysing products GM1 SS1 H/H

Getting doppler data for GM1 SS1 H/H from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...

Writing file ./RESULTS/DAILY/\_101221/DOPPLER/Doppler\_data\_GM1\_SS1\_HH\_2010-12-21.dat...

Running IDL program...

Writing file ../../RESULTS/DAILY/\_101221/DOPPLER/DOPPLER\_ANX\_GM1\_SS1\_HH.png...

\*\*\*\*\*  
\*\*\*\*\*

DOPPLER JUMPS Analysis will be performed on WSM products from 2010-12-21 00:00:00 to 2010-12-21 23:59:59

Analysing by default products WSM

Getting doppler jumps data for WSM from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...

Writing file ./RESULTS/DAILY/\_101221/DOPPLER/Doppler\_Jumps\_data\_WSM\_2010-12-21.dat...

Running IDL program...

Writing file ../../RESULTS/DAILY/\_101221/DOPPLER/DOPPLER\_JUMPS\_ANX\_WSM.png...

Writing file ../../RESULTS/DAILY/\_101221/DOPPLER/DOPPLER\_JUMPS\_Date\_WSM.png...

\*\*\*\*\*  
\*\*\*\*\*

DOPPLER MAP Analysis will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59

Analysing products WVS IS2 V/V

Loading predicted doppler values....

Phase: descending

Found data...

Computing mean error doppler estimated-predicted...

Mean error = -71.570818 Hz

Writing file ../../RESULTS/DAILY/\_101221/DOPPLER/DOPPLER\_Estimated-Predicted-MeanError\_WVS\_IS2\_VV\_desc.jpg...

Writing file ../../RESULTS/DAILY/\_101221/DOPPLER/DOPPLER\_Absolute\_WVS\_IS2\_VV\_desc.jpg...

\*\*\*\*\*

Loading predicted doppler values....

Phase: ascending

Found data...

Computing mean error doppler estimated-predicted...

Mean error = -61.950847 Hz

Writing file ../../RESULTS/DAILY/\_101221/DOPPLER/DOPPLER\_Estimated-Predicted-MeanError\_WVS\_IS2\_VV\_asc.jpg...

Writing file ../../RESULTS/DAILY/\_101221/DOPPLER/DOPPLER\_Absolute\_WVS\_IS2\_VV\_asc.jpg...

\*\*\*\*\*

Analysing products GM1 SS1 H/H

Loading predicted doppler values....

Phase: descending

Found data...

Computing mean error doppler estimated-predicted...

Mean error = -58.174154 Hz

Writing file ../../RESULTS/DAILY/\_101221/DOPPLER/DOPPLER\_Estimated-Predicted-MeanError\_GM1\_SS1\_HH\_desc.jpg...

Writing file ../../RESULTS/DAILY/\_101221//DOPPLER/DOPPLER\_Absolute\_GM1\_SS1\_HH\_desc.jpg...

\*\*\*\*\*

Loading predicted doppler values....

Phase: ascending

Found data...

Computing mean error doppler estimated-predicted...

Mean error = -54.465822 Hz

Writing file ../../RESULTS/DAILY/\_101221//DOPPLER/DOPPLER\_Estimated-Predicted-MeanError\_GM1\_SS1\_HH\_asc.jpg...

Writing file ../../RESULTS/DAILY/\_101221//DOPPLER/DOPPLER\_Absolute\_GM1\_SS1\_HH\_asc.jpg...

\*\*\*\*\*

DOPPLER ANALYSIS completed

#####

CHIRP ANALYSIS

#####

Creating directory ./RESULTS/DAILY/\_101221/CHIRP...

\*\*\*\*\*  
\*\*\*\*\*

CHIRP Analysis will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59

Analysing products WSM SS1 H/H

\*\*\*\*\*

Getting ScaleFactor data for WSM SS1 H/H from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...

Writing file ./RESULTS/DAILY/\_101221/CHIRP/ScaleFactor\_data\_WSM\_SS1\_HH\_2010-12-21.dat...

Running IDL program...

Writing file ../../RESULTS/DAILY/\_101221/CHIRP/ScaleFactor\_ANX\_WSM\_SS1\_HH.png...

Writing file ../../RESULTS/DAILY/\_101221/CHIRP/ScaleFactor\_DATE\_WSM\_SS1\_HH.png...

Analysing products WSM SS1 V/V

\*\*\*\*\*

Getting ScaleFactor data for WSM SS1 V/V from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...

Writing file ./RESULTS/DAILY/\_101221/CHIRP/ScaleFactor\_data\_WSM\_SS1\_VV\_2010-12-21.dat...

Running IDL program...

Writing file ../../RESULTS/DAILY/\_101221/CHIRP/ScaleFactor\_ANX\_WSM\_SS1\_VV.png...

Writing file ../../RESULTS/DAILY/\_101221/CHIRP/ScaleFactor\_DATE\_WSM\_SS1\_VV.png...

CHIRP ANALYSIS completed

#####

RAW DATA ANALYSIS

#####

Analysis will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59

Results will be exported to the directory: ./RESULTS/DAILY/\_101221/RAW\_DATA

Creating directory ./RESULTS/DAILY/\_101221/RAW\_DATA...

\*\*\*\*\*

Getting raw data for WVS from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...

Writing file ./RESULTS/DAILY/\_101221/RAW\_DATA/Raw\_data\_WVS\_2010-12-21.dat...

Running IDL program to create graphs...

Creating image ../../RESULTS/DAILY/\_101221/RAW\_DATA/Raw\_data\_WVS\_input\_mean.png...

Creating image ../../RESULTS/DAILY/\_101221/RAW\_DATA/Raw\_data\_WVS\_input\_stdev.png...

Creating image ../../RESULTS/DAILY/\_101221/RAW\_DATA/Raw\_data\_WVS\_gain\_imbalance.png...

```
*****
Getting raw data for IMM from 2010-12-21 00:00:00 to 2010-12-21 23:59:59...
Writing file ./RESULTS/DAILY/_101221/RAW_DATA/Raw_data_IMM_2010-12-21.dat...
Running IDL program to create graphs...
```

```
Creating image ../../RESULTS/DAILY/_101221/RAW_DATA/Raw_data_IMM_input_mean.png...
Creating image ../../RESULTS/DAILY/_101221/RAW_DATA/Raw_data_IMM_input_stdev.png...
Creating image ../../RESULTS/DAILY/_101221/RAW_DATA/Raw_data_IMM_gain_imbalance.png...
```

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

```
TELEMETRY ANALYSIS
#####
Analysis will be performed from 2010-12-21 00:00:00 to 2010-12-21 23:59:59
Results will be exported to the directory: ./RESULTS/DAILY/_101221/TELEMETRY
```

```
Creating directory ./RESULTS/DAILY/_101221/TELEMETRY...
```

```
Looking for gaps and missing lines in WVS products...
*****
Checking 37 products from PDE...
Checking 24 products from PDK...
```

```
Looking for gaps and missing lines in GM1 products...
*****
Checking 30 products from PDE...
Checking 7 products from PDK...
```

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

```
Looking for gaps and missing lines in IMM products...
*****
Checking 7 products from PDE...
No products from PDK...
```

```
Looking for gaps and missing lines in WSM products...
*****
Checking 34 products from PDE...
Checking 1 products from PDK...
```

```
Creating graph of missing lines and gaps...
*****
Creating image: ./RESULTS/DAILY/_101221/TELEMETRY/TELEMETRY_Missing_lines.png...
Creating image: ./RESULTS/DAILY/_101221/TELEMETRY/TELEMETRY_Gaps.png...
```

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

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

```
Building file ./RESULTS/DAILY/_101221/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

#####



Differences with IECF operational ADFs list. If a wrong ADF is used, the filename is reported.

Product	ASA_CON	ASA_INS	ASA_XCH	ASA_XCA				
ASA_GM1_1PNPDE20101221_002247_000006223097_00347_46051_6159.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_002247_000006223097_00347_46051_6171.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_002247_000006223097_00347_46051_6181.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_004949_000005733097_00347_46051_6156.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_010635_000005793097_00347_46051_6168.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_013338_000004533097_00347_46051_6185.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_015344_000001933097_00348_46052_6184.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_020134_000012813097_00348_46052_6186.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_022926_000001633097_00348_46052_6191.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_024645_000004953097_00348_46052_6217.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_030712_000001933097_00348_46052_6216.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_031025_000004043097_00348_46052_6215.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_031756_000002593097_00348_46052_6214.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_032641_000008223097_00349_46053_6211.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_034109_000009913097_00349_46053_6209.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_050455_000008463097_00350_46054_6232.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_052053_000004653097_00350_46054_6229.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_053214_000002893097_00350_46054_6228.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_054114_000001263097_00350_46054_6227.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_202726_000001933097_00359_46063_6327.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_210921_000001503097_00359_46063_6325.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_211408_000002593097_00359_46063_6323.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_213234_000003503097_00359_46063_6337.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_214117_000006283097_00359_46063_6339.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_220625_000004223097_00360_46064_6343.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_224936_000006713097_00360_46064_6347.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_224936_000006713097_00360_46064_6350.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_234331_000000723097_00361_46065_6362.N1					OK	OK	OK	OK
ASA_GM1_1PNPDE20101221_234626_000007253097_00361_46065_6363.N1					OK	OK	OK	OK
ASA_GM1_1PNPDK20101221_065658_000007013097_00351_46055_8251.N1					OK	OK	OK	OK
ASA_GM1_1PNPDK20101221_072318_000005493097_00351_46055_8271.N1					OK	OK	OK	OK
ASA_GM1_1PNPDK20101221_073422_000003563097_00351_46055_8272.N1					OK	OK	OK	OK
ASA_GM1_1PNPDK20101221_074847_000008823097_00351_46055_8274.N1					OK	OK	OK	OK
ASA_GM1_1PNPDK20101221_085126_000000783097_00352_46056_8303.N1					OK	OK	OK	OK
ASA_GM1_1PNPDK20101221_184725_000001813097_00358_46062_8507.N1					OK	OK	OK	OK
ASA_GM1_1PNPDK20101221_185328_000001143097_00358_46062_8515.N1					OK	OK	OK	OK



Differences with IECF operational ADFs list. If a wrong ADF is used, the filename is reported.

Product	ASA_CON	ASA_INS	ASA_XCH	ASA_XCA
ASA_IMM_1PNPDE20101221_031709_000000383097_00348_46052_6201.N1	OK	OK	OK	OK
ASA_IMM_1PNPDE20101221_035740_000003633097_00349_46053_6199.N1	OK	OK	OK	OK
ASA_IMM_1PNPDE20101221_053704_000002363097_00350_46054_6221.N1	OK	OK	OK	OK
ASA_IMM_1PNPDE20101221_071655_000003733097_00351_46055_6245.N1	OK	OK	OK	OK
ASA_IMM_1PNPDE20101221_073224_000001063097_00351_46055_6246.N1	OK	OK	OK	OK
ASA_IMM_1PNPDE20101221_141304_000000393097_00355_46059_6312.N1	OK	OK	OK	OK
ASA_IMM_1PNPDE20101221_195727_000000463097_00358_46062_6319.N1	OK	OK	OK	OK

Differences with IECF operational ADFs list. If a wrong ADF is used, the filename is reported.

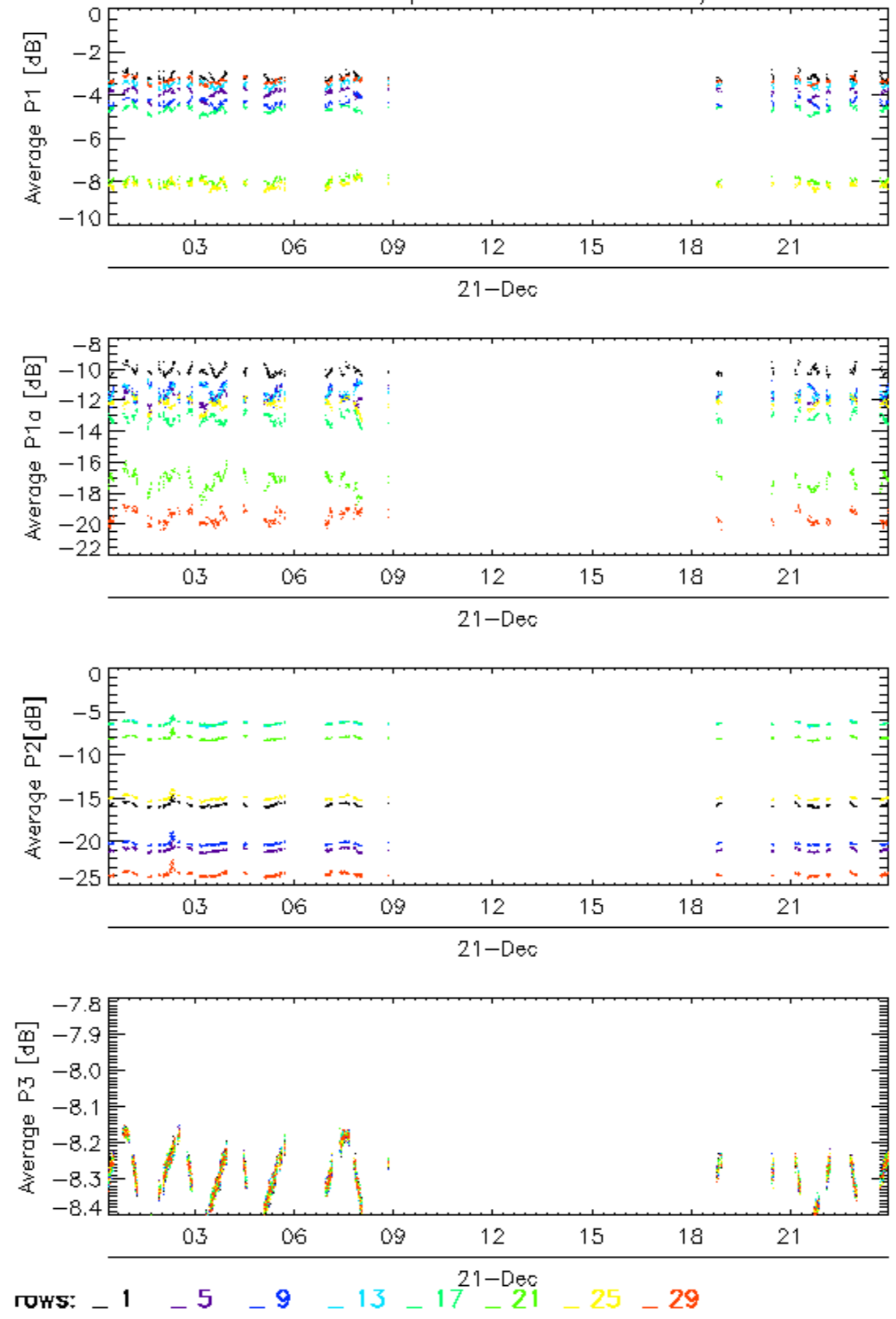
Product	ASA_CON	ASA_INS	ASA_XCH	ASA_XCA				
ASA_WSM_1PNPDE20101221_000851_000001533097_00347_46051_6151.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_001451_000004713097_00347_46051_6154.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_011622_000004533097_00347_46051_6157.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_015106_000001533097_00348_46052_6183.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_015700_000002693097_00348_46052_6189.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_025507_000004533097_00348_46052_6198.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_043327_000005753097_00349_46053_6222.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_051907_000000983097_00350_46054_6223.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_051907_000000983097_00350_46054_6224.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_070841_000003123097_00351_46055_6243.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_090657_000001473097_00352_46056_6267.N1					OK	OK	OK	OK
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ASA_WSM_1PNPDE20101221_123023_000001533097_00354_46058_6309.N1					OK	OK	OK	OK
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ASA_WSM_1PNPDE20101221_230051_000002693097_00360_46064_6340.N1					OK	OK	OK	OK
ASA_WSM_1PNPDE20101221_233051_000003923097_00361_46065_6358.N1					OK	OK	OK	OK
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Differences with IECF operational ADFs list. If a wrong ADF is used, the filename is reported.

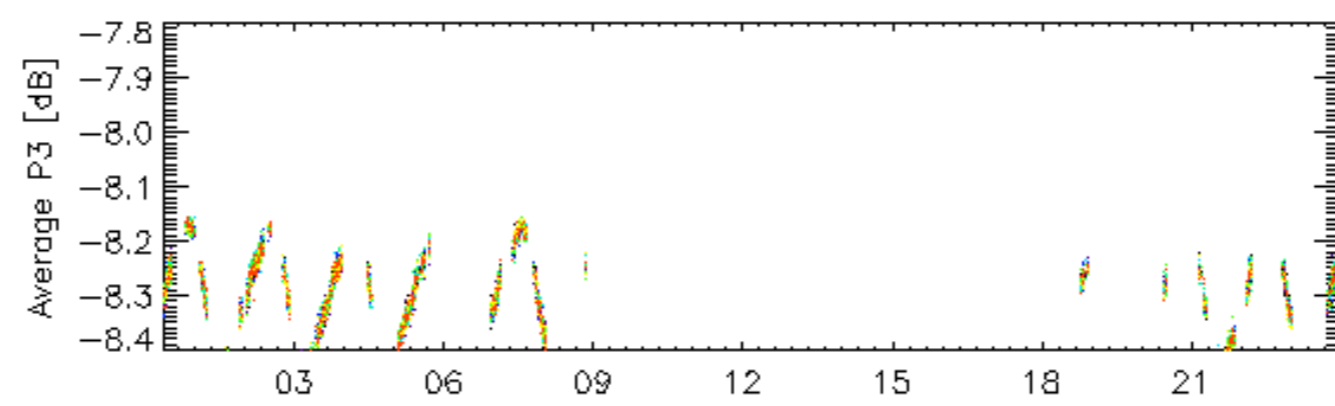
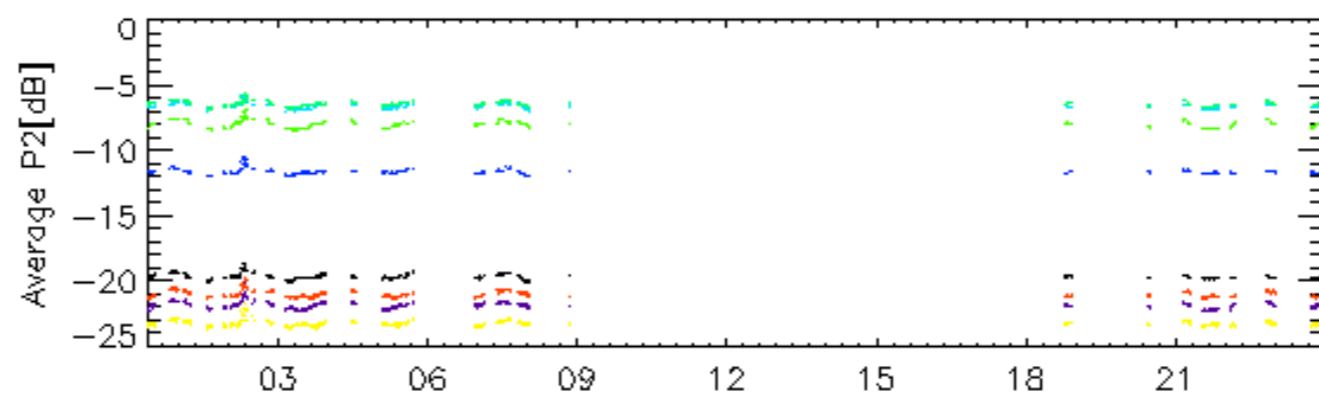
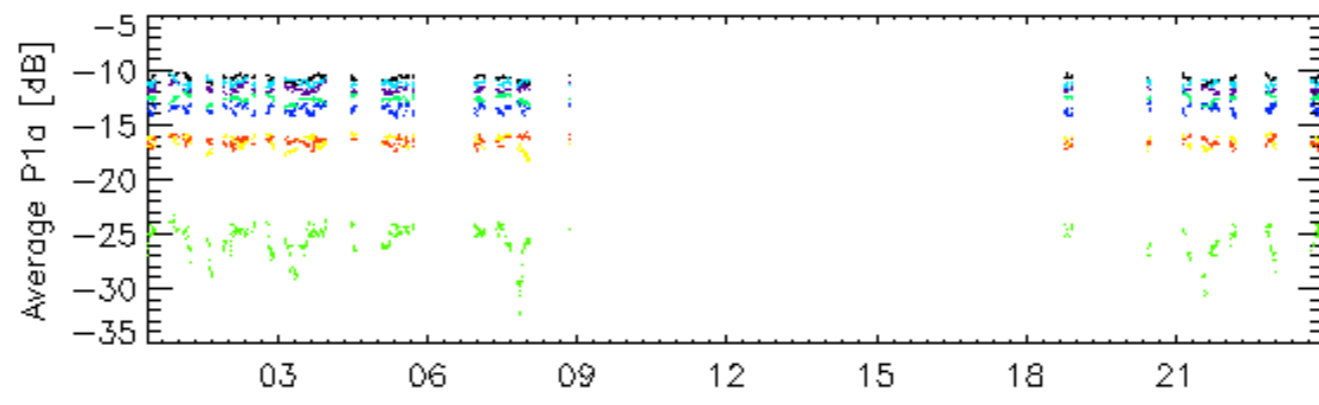
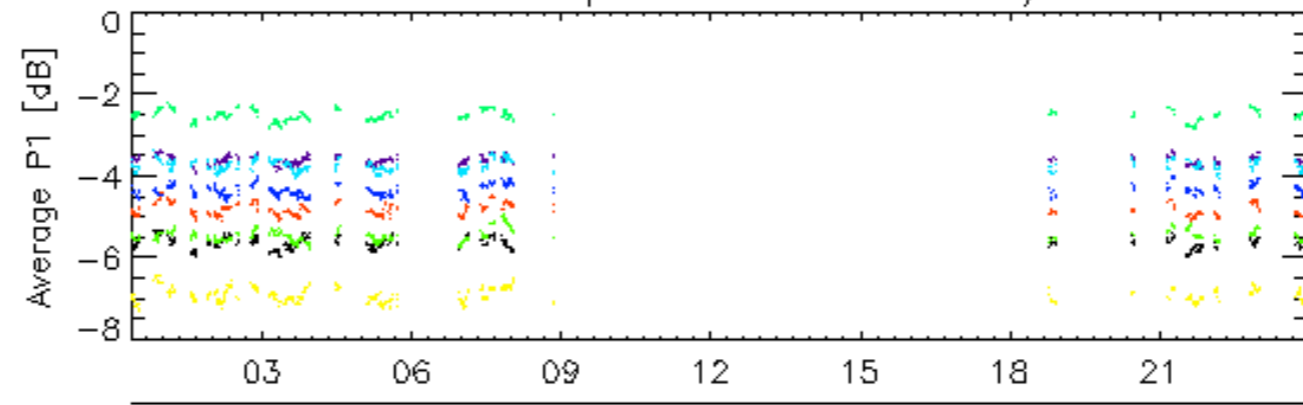
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Calibration pulses for GM1 SS3 H/H

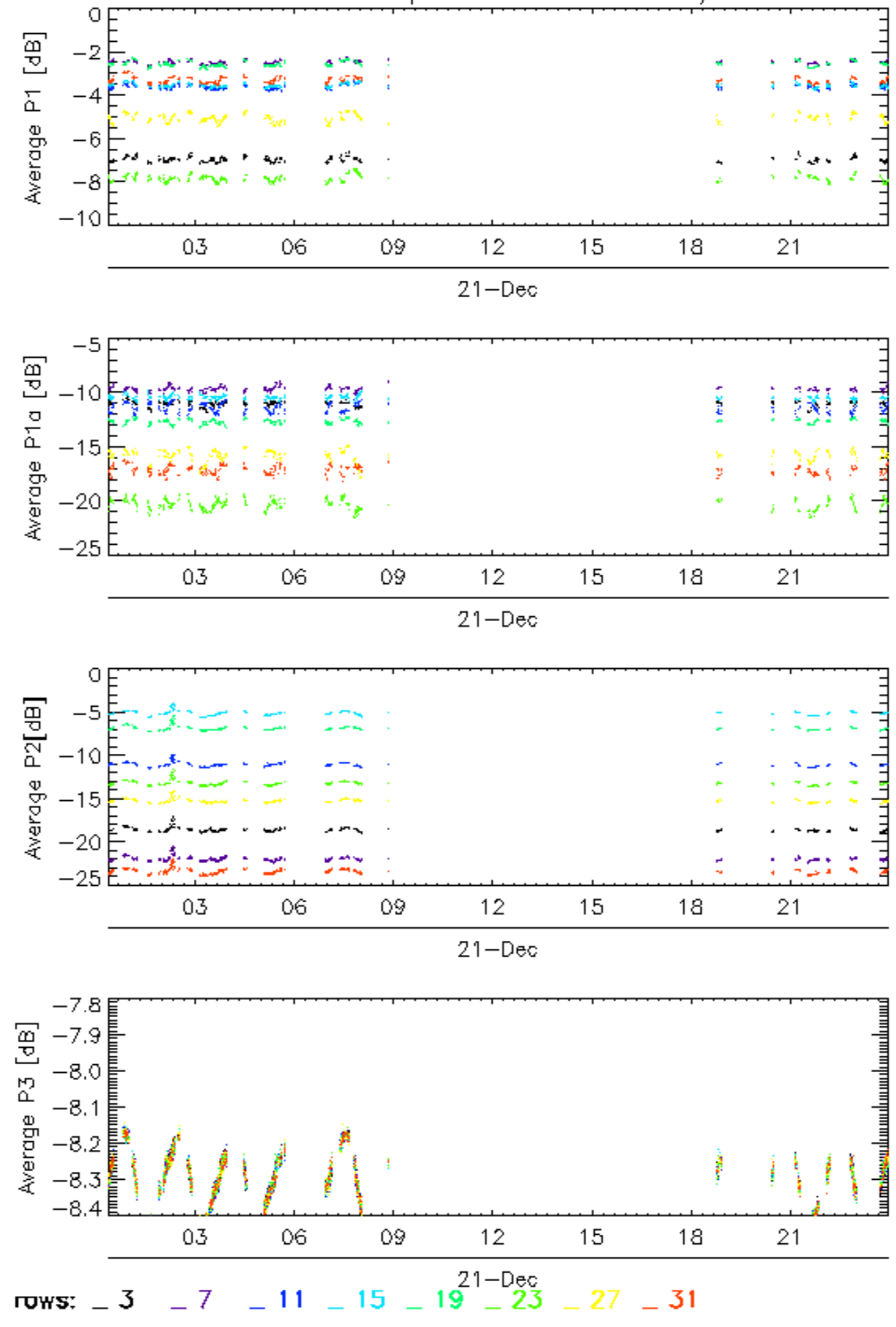


Calibration pulses for GM1 SS3 H/H



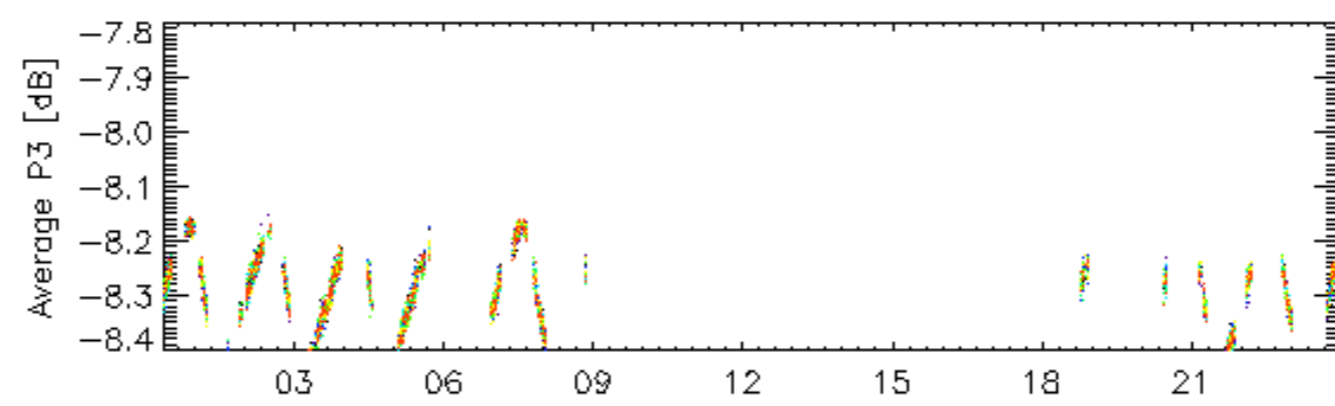
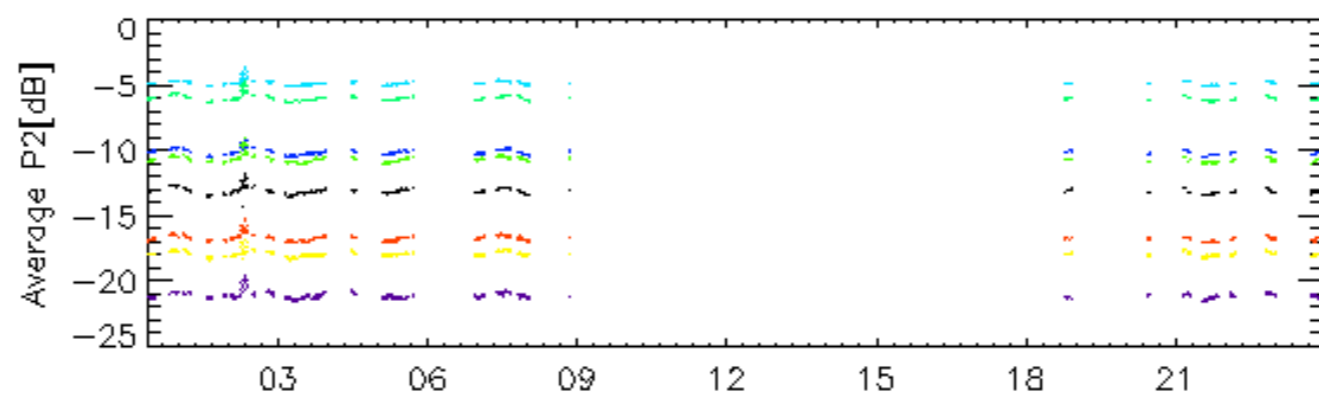
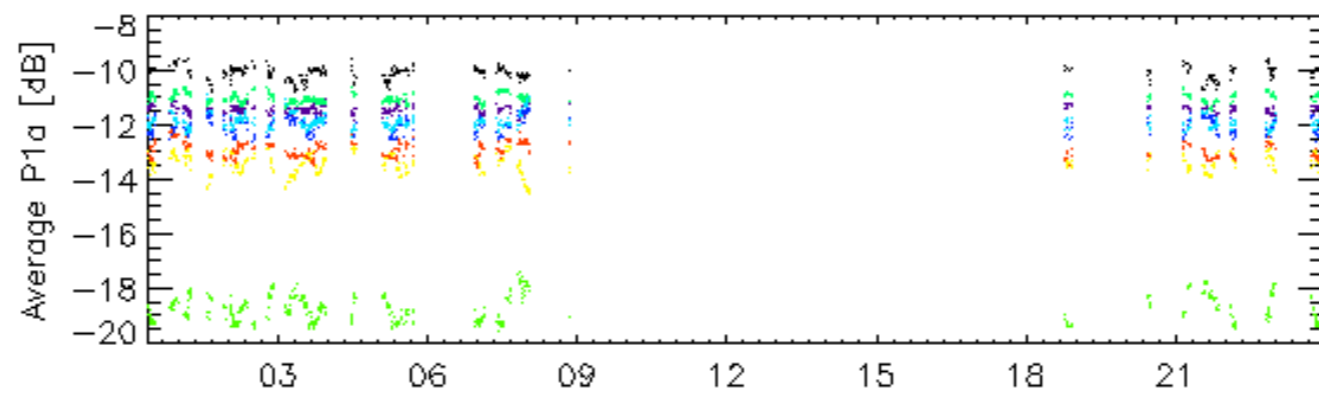
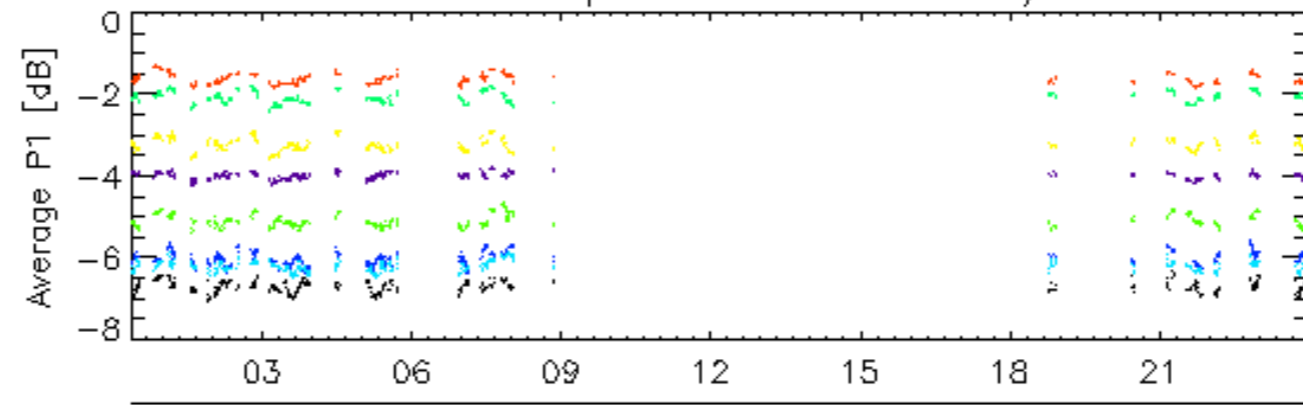
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Calibration pulses for GM1 SS3 H/H



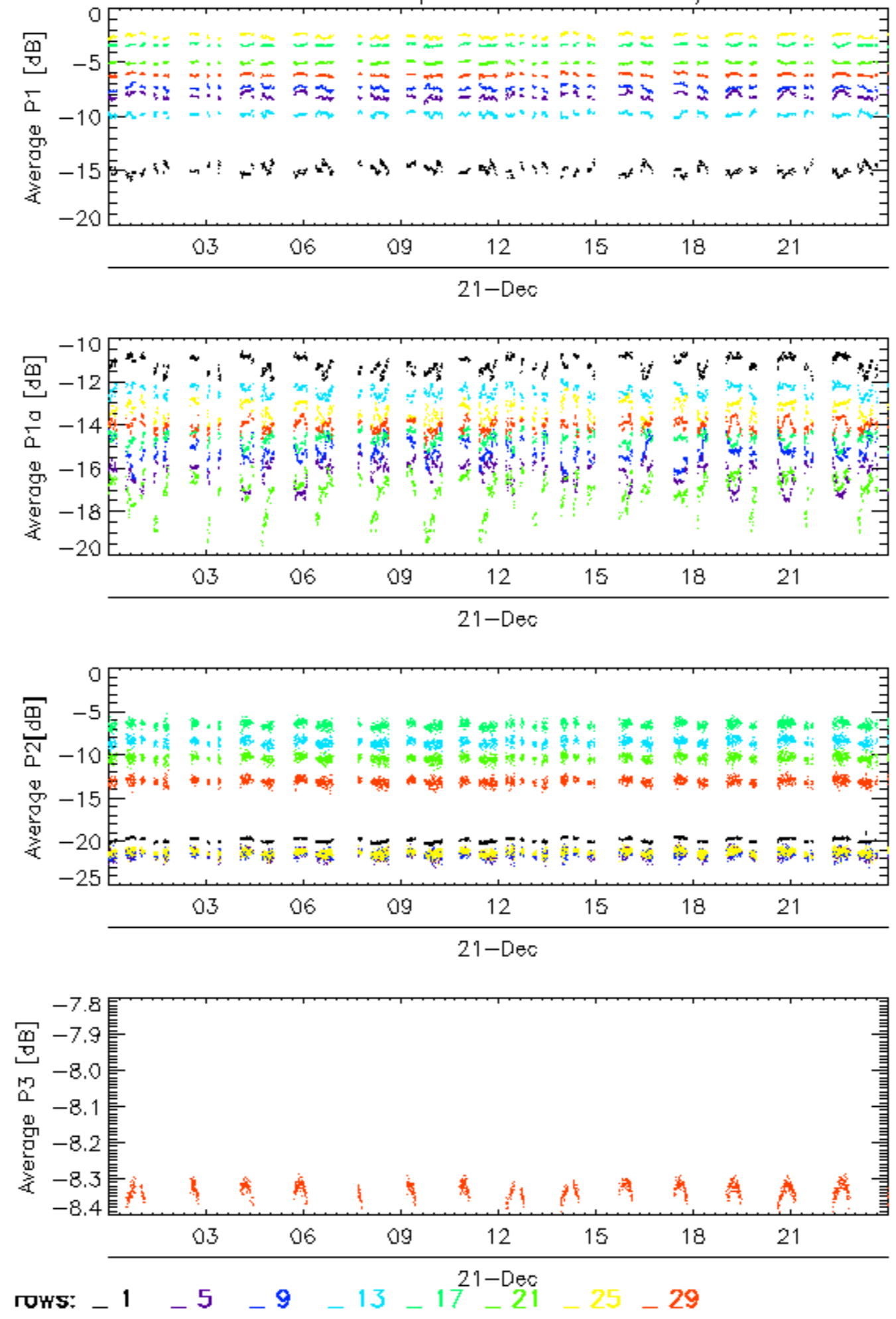


Calibration pulses for GM1 SS3 H/H

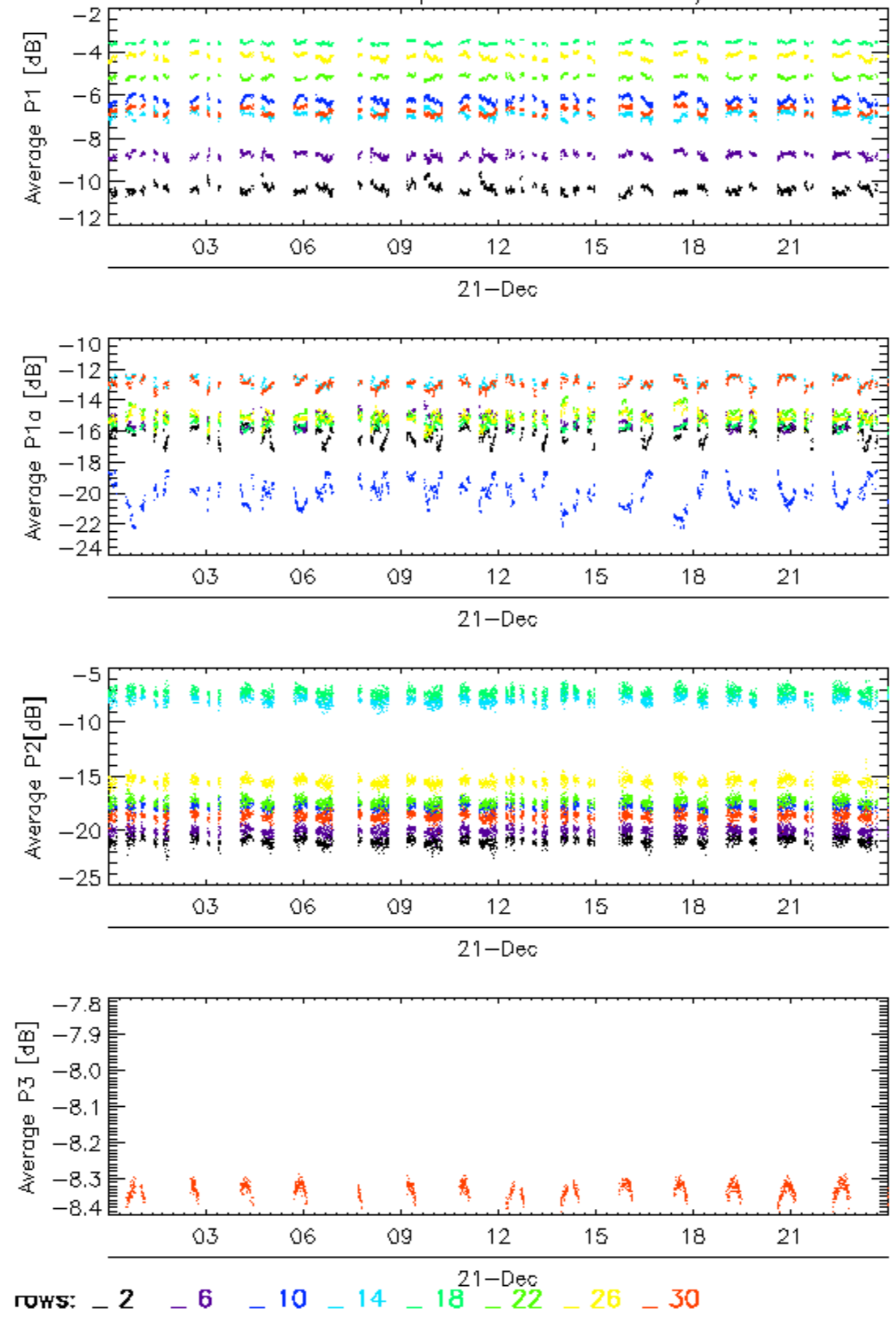


rows: \_ 4 \_ 8 \_ 12 \_ 16 \_ 20 \_ 24 \_ 28 \_ 32

Calibration pulses for WVS IS2 V/V

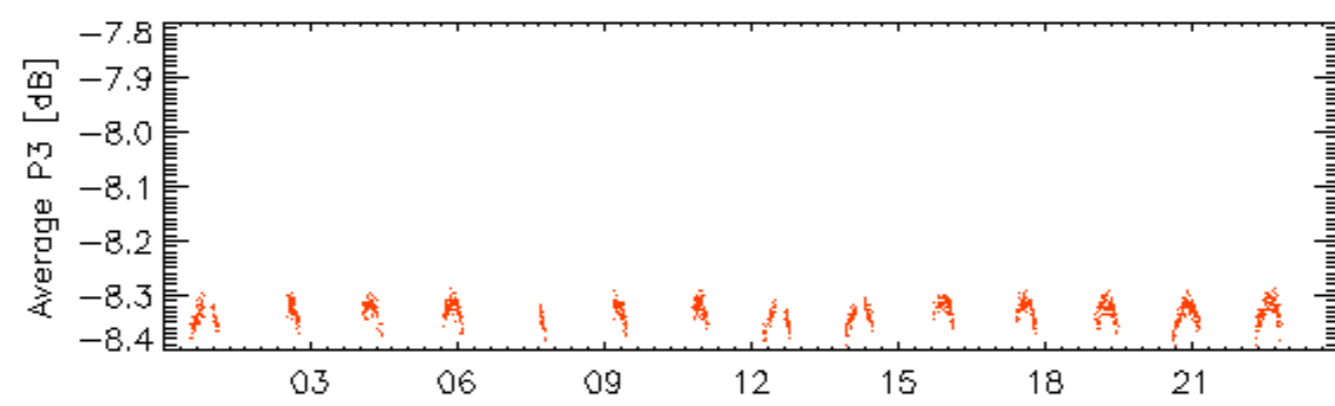
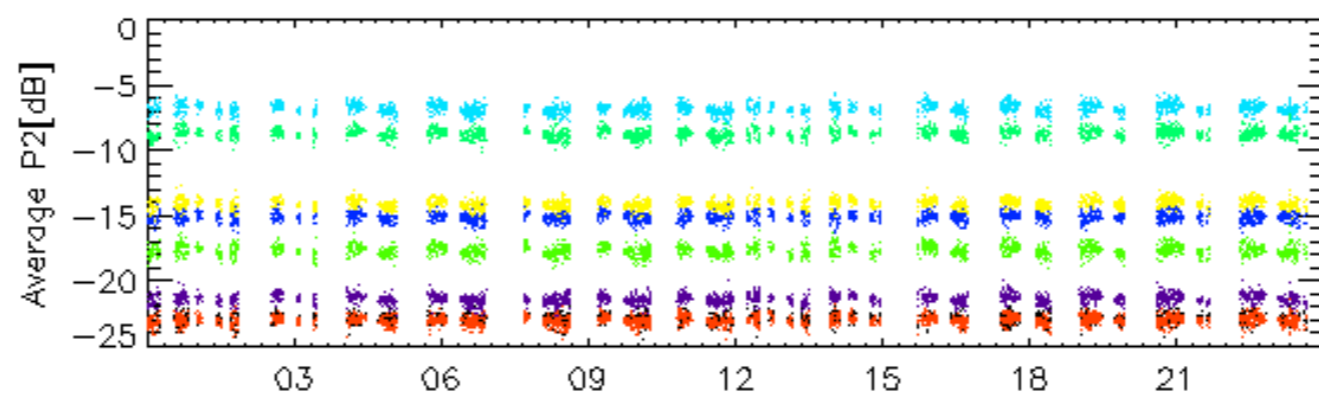
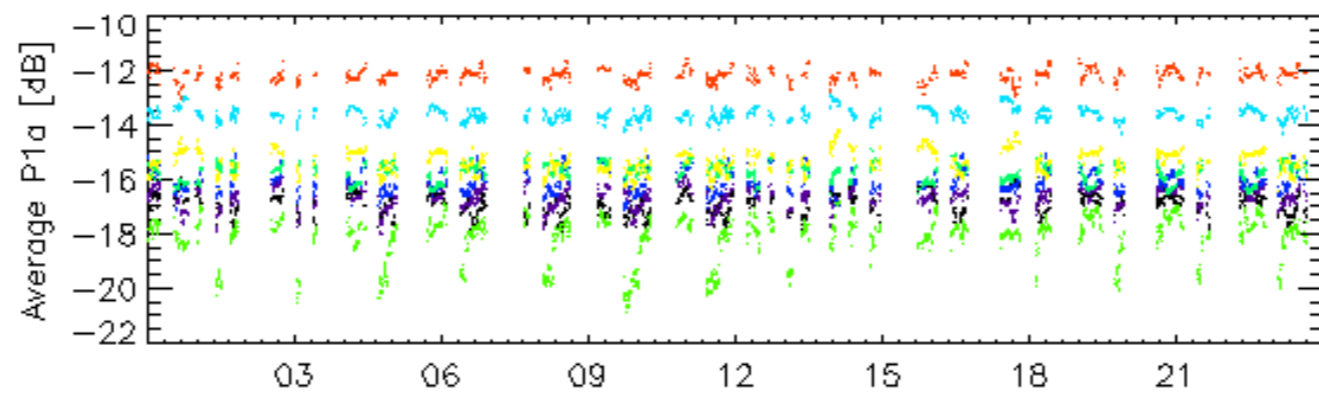
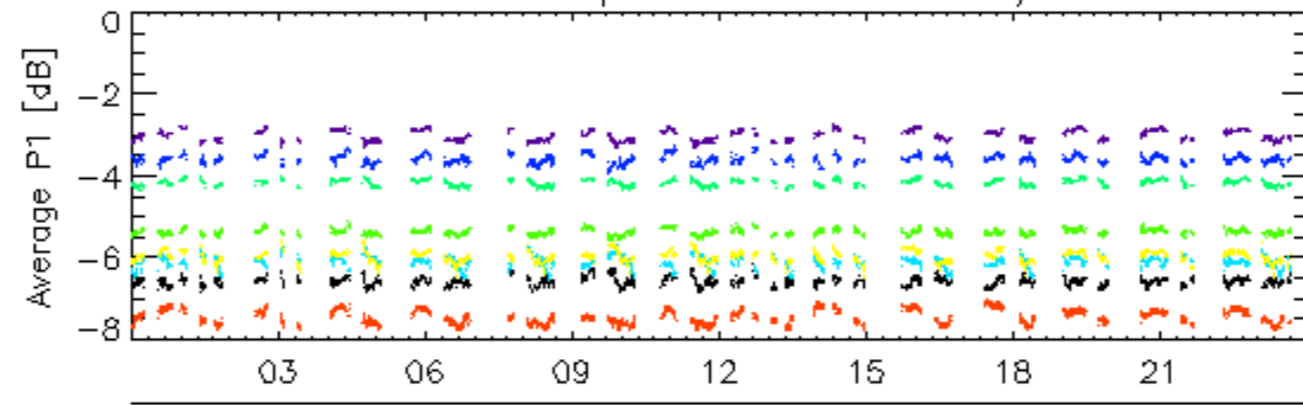


### Calibration pulses for WVS IS2 V/V



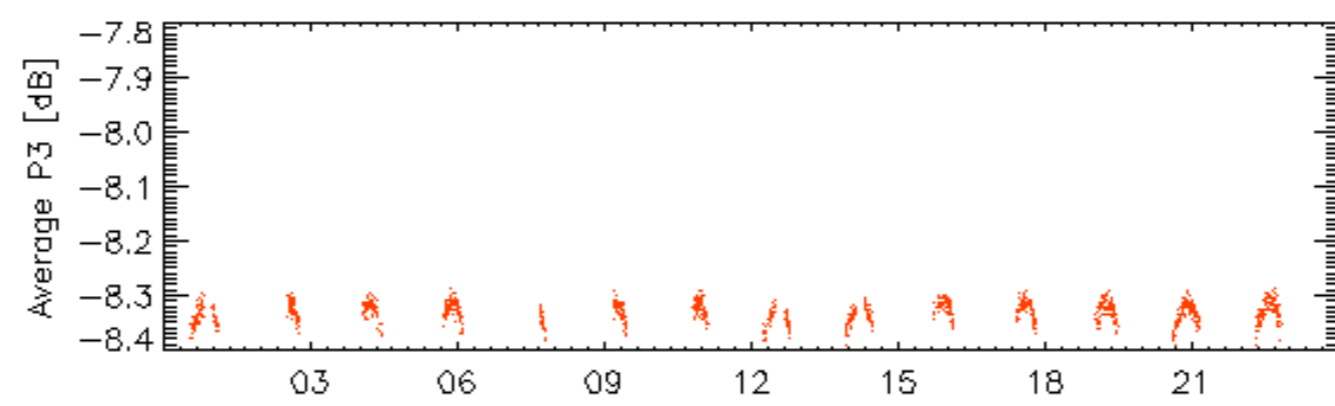
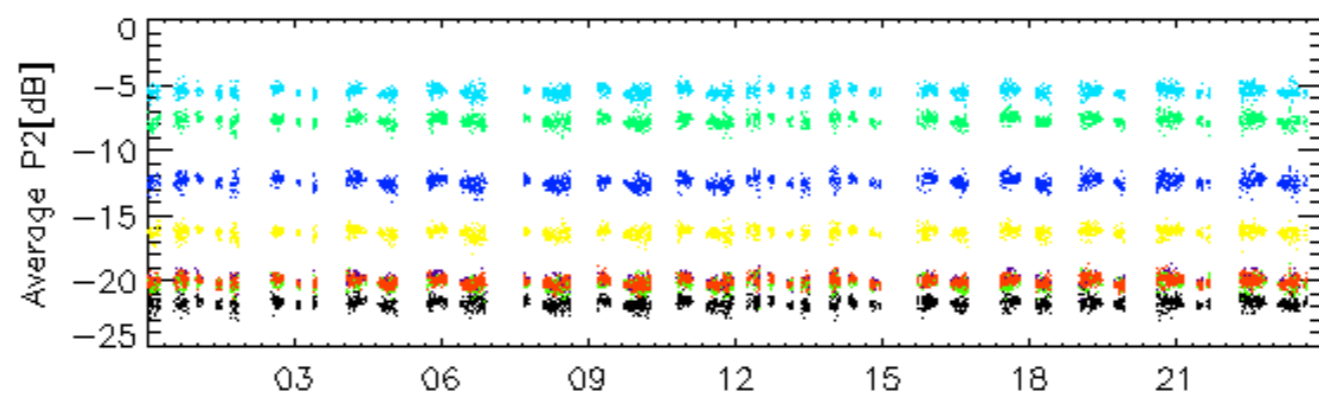
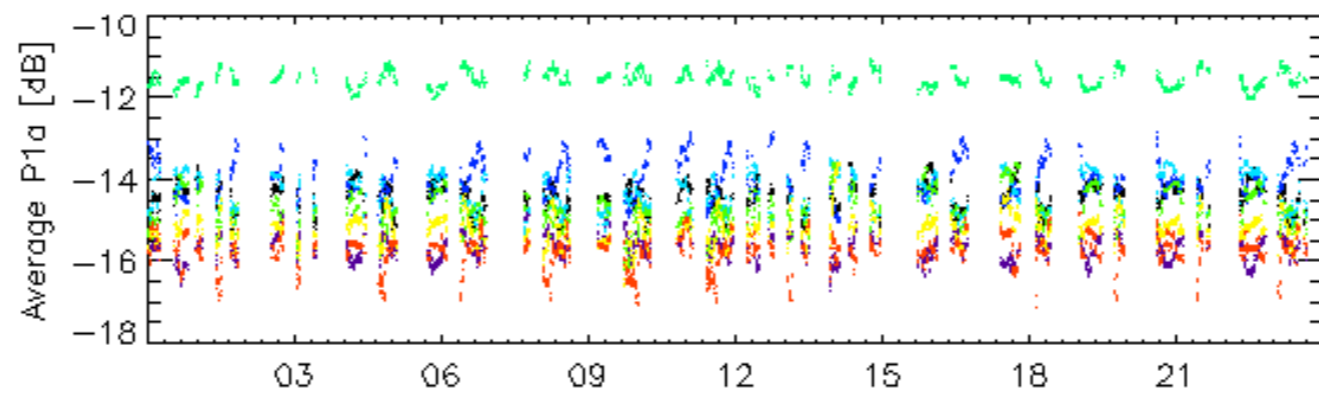
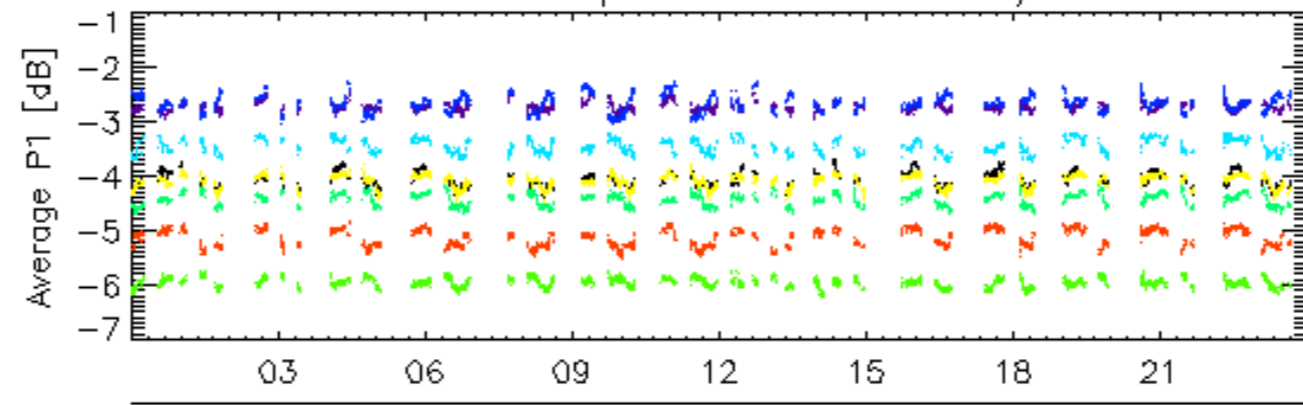


### Calibration pulses for WVS IS2 V/V

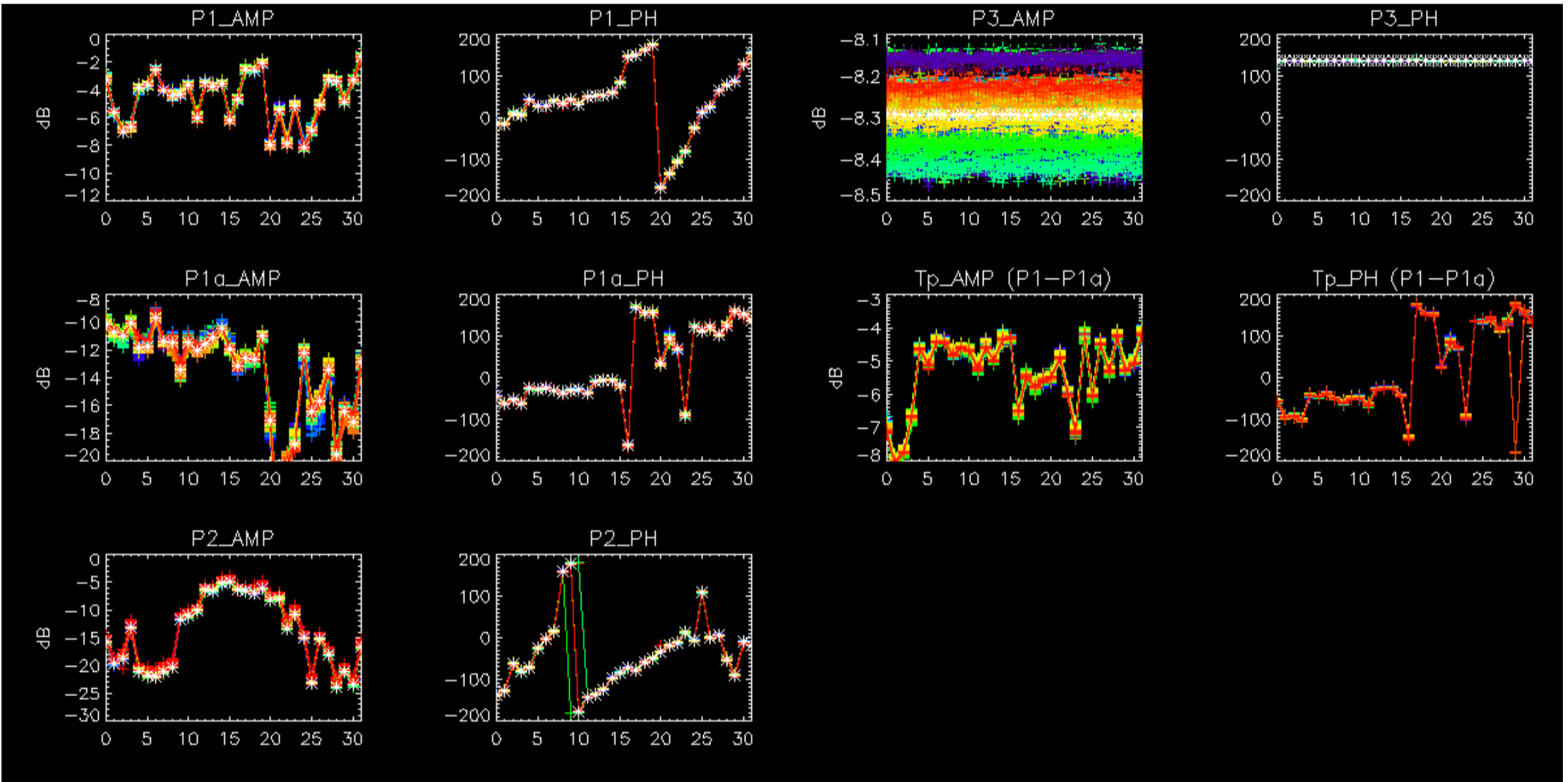


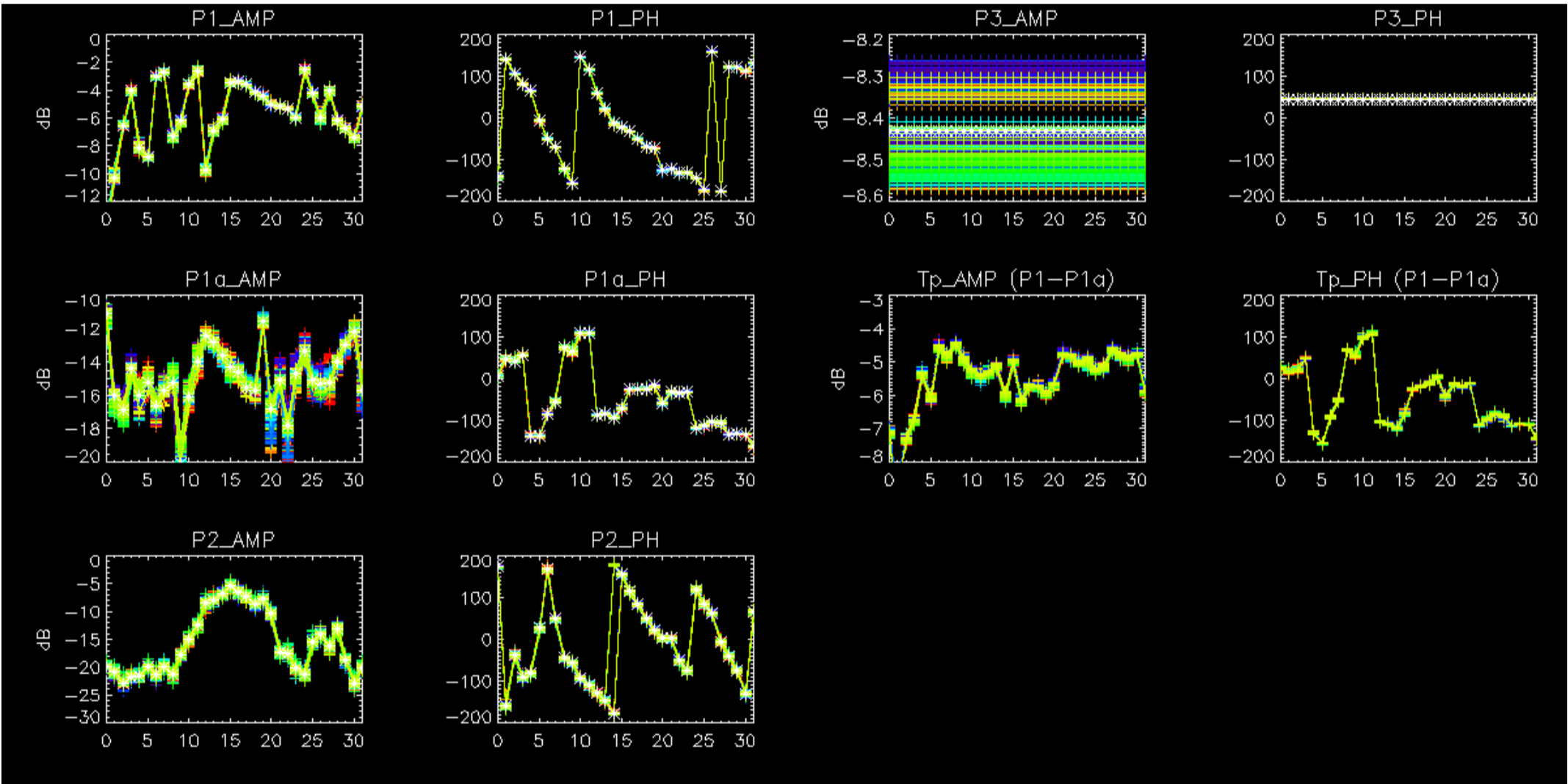
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Calibration pulses for WVS IS2 V/V

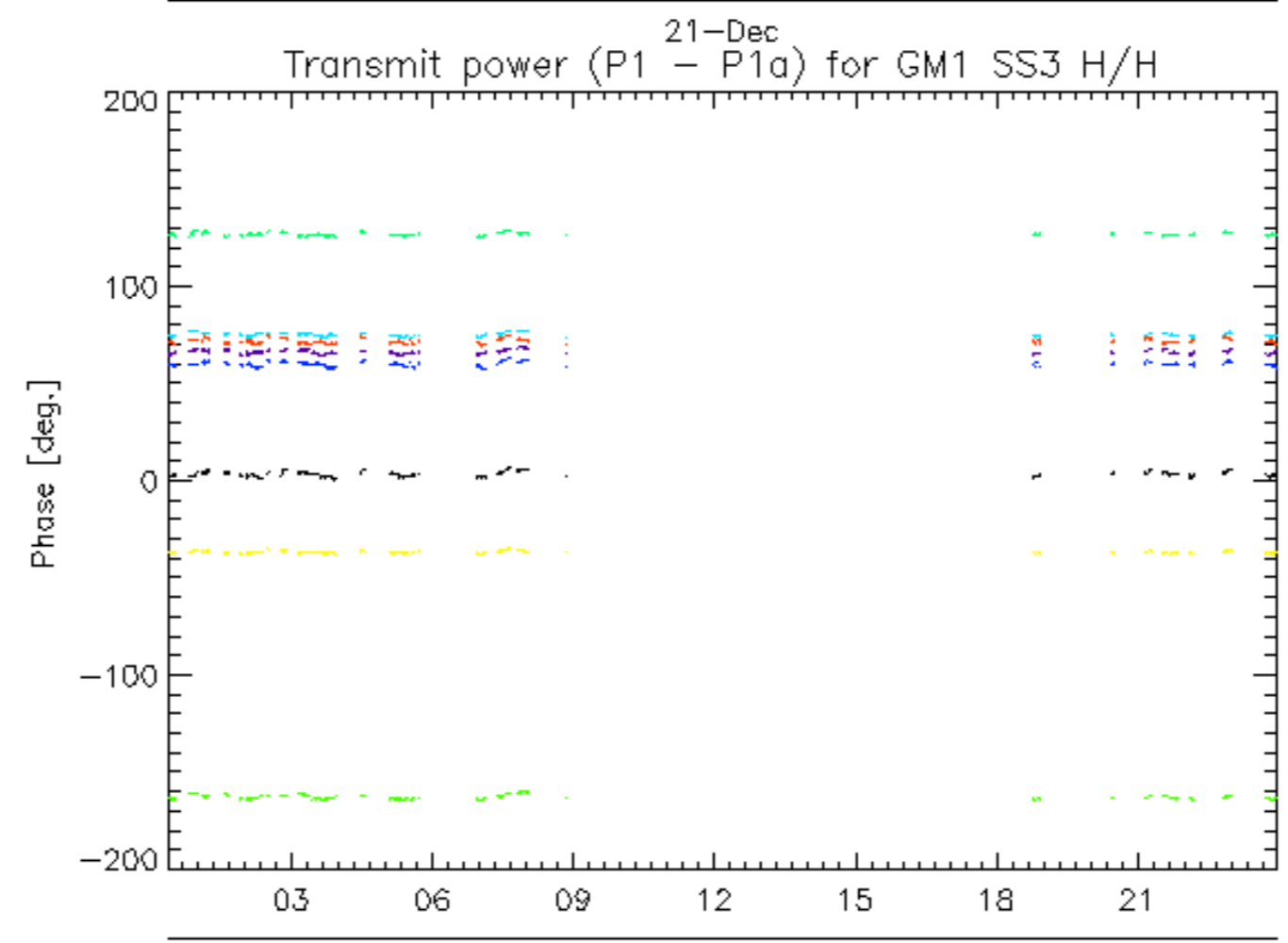
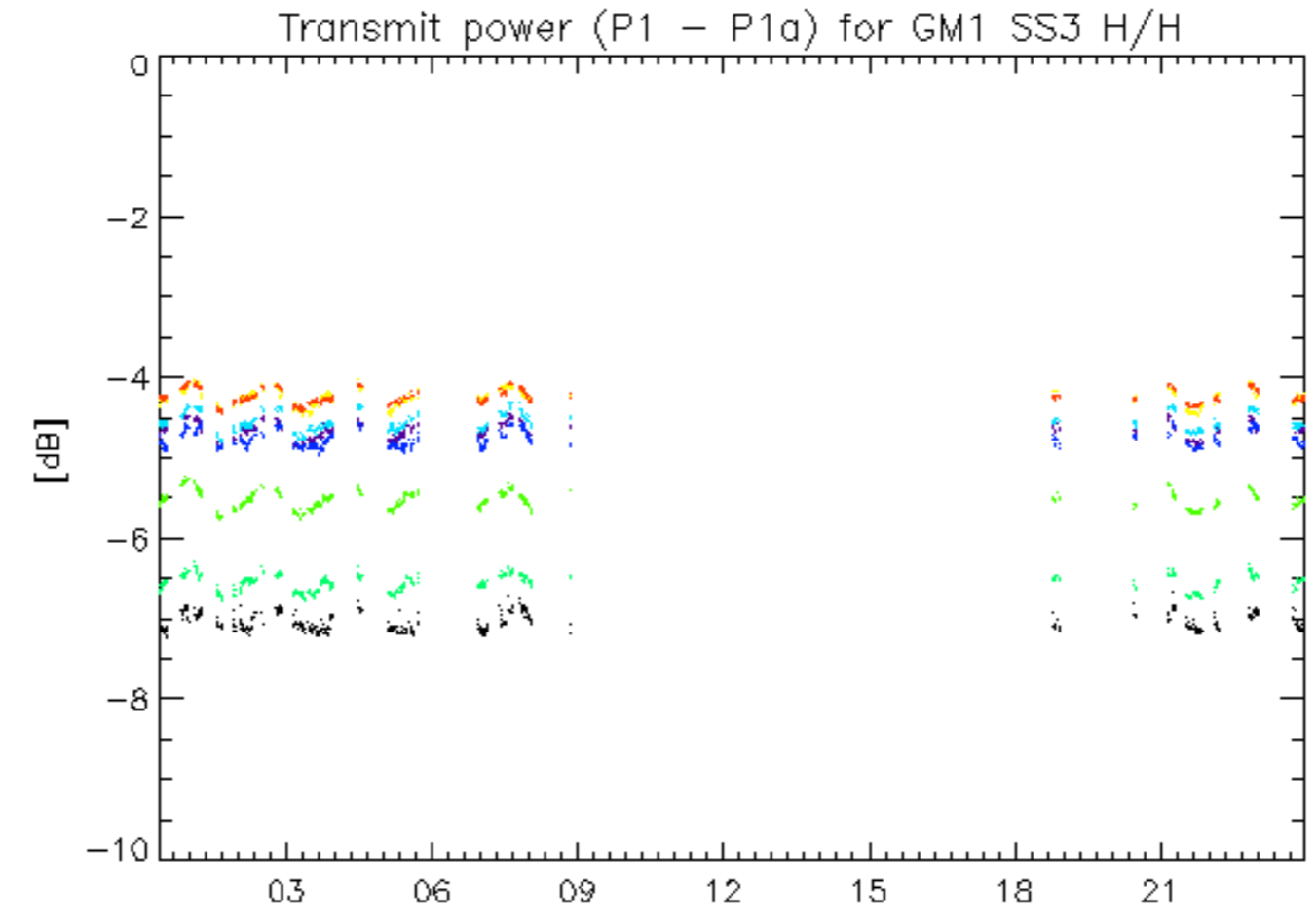


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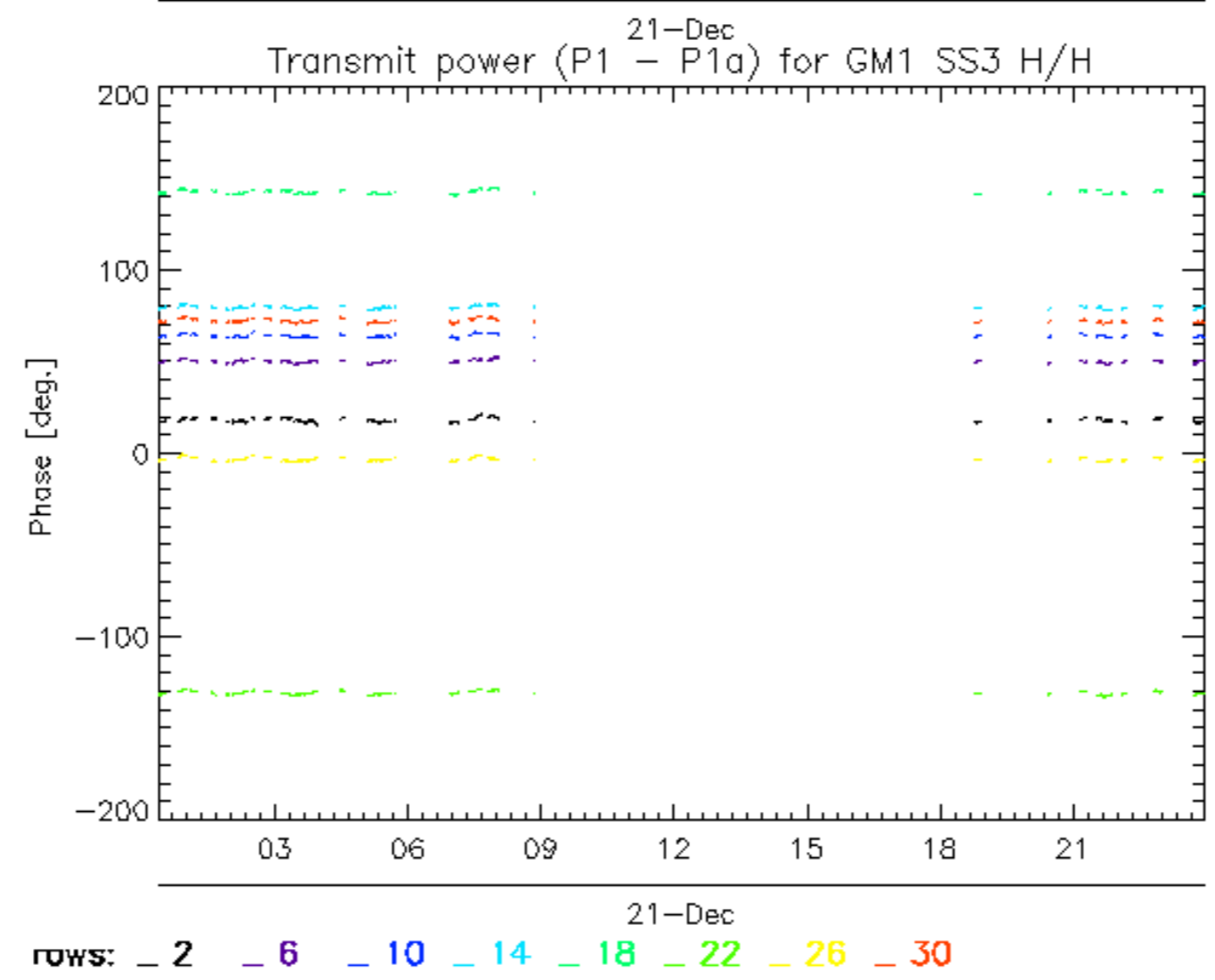
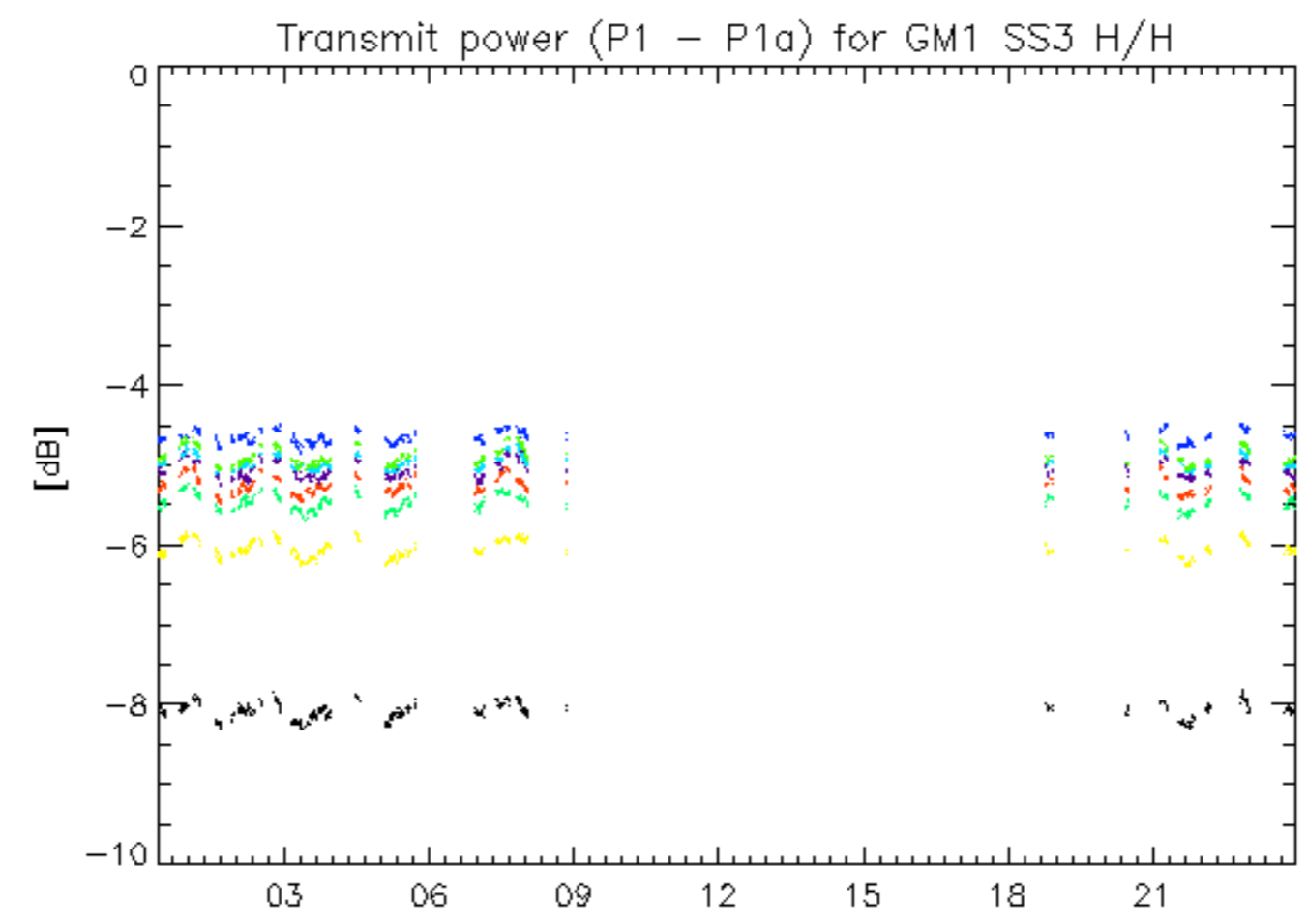


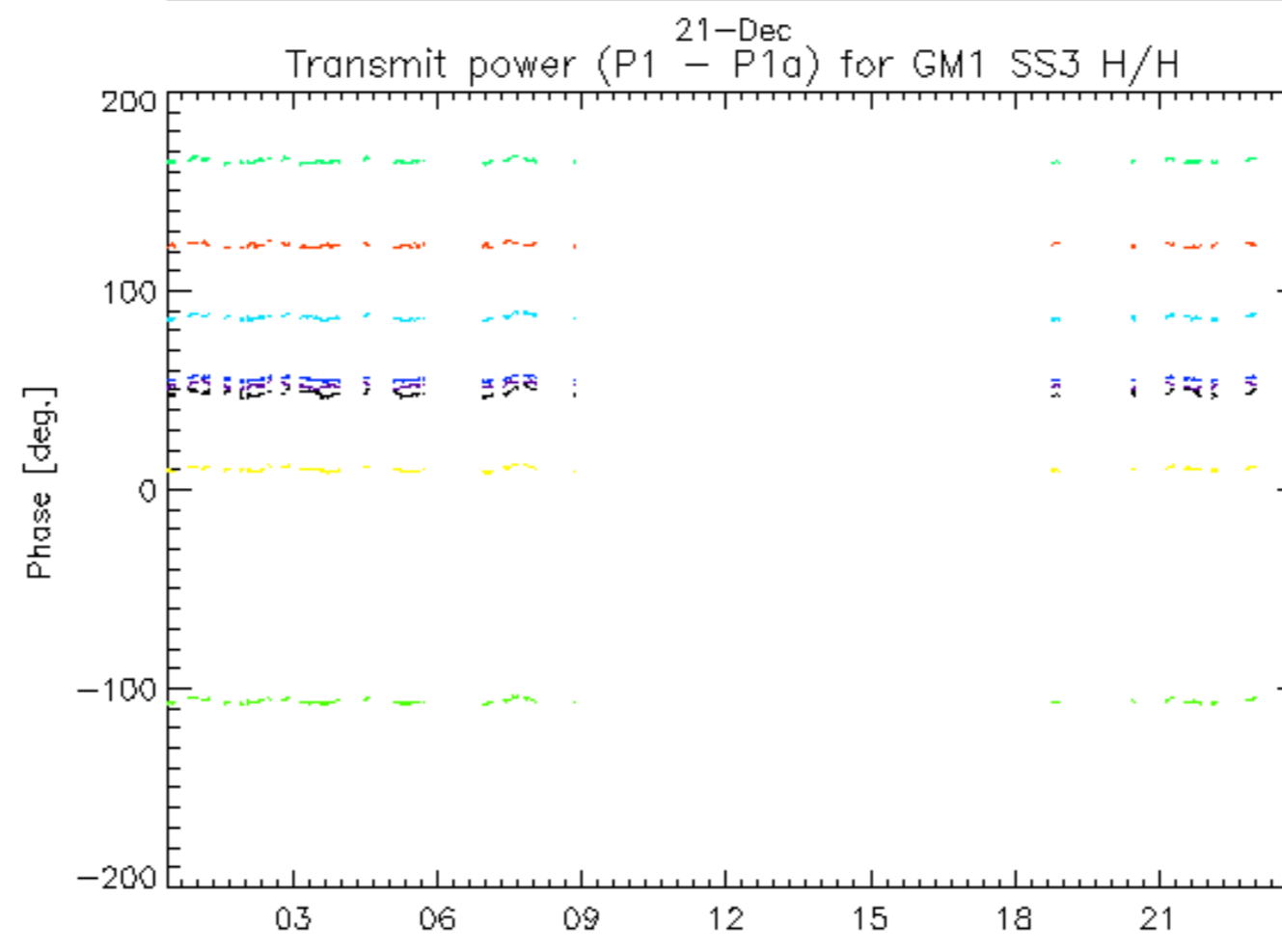
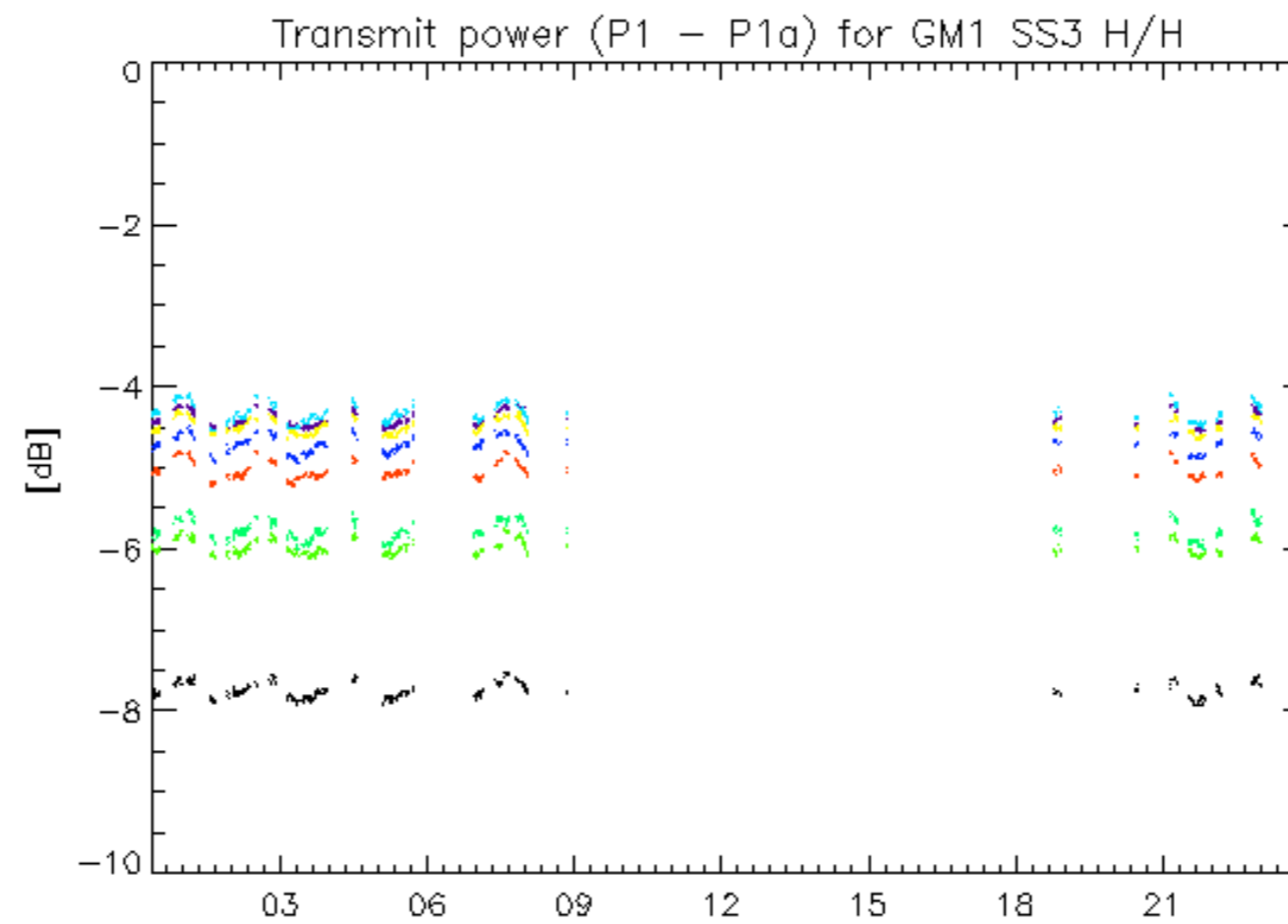




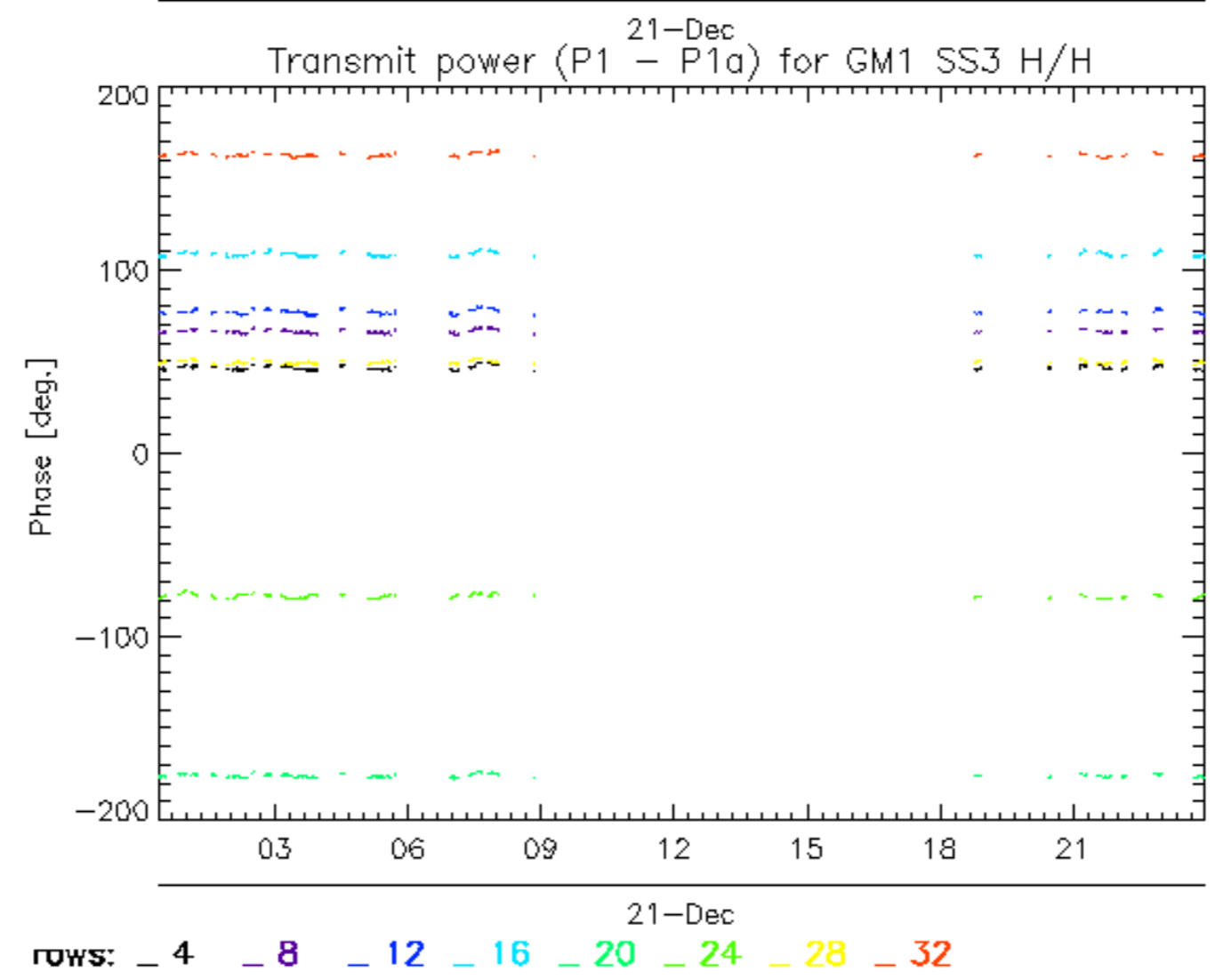
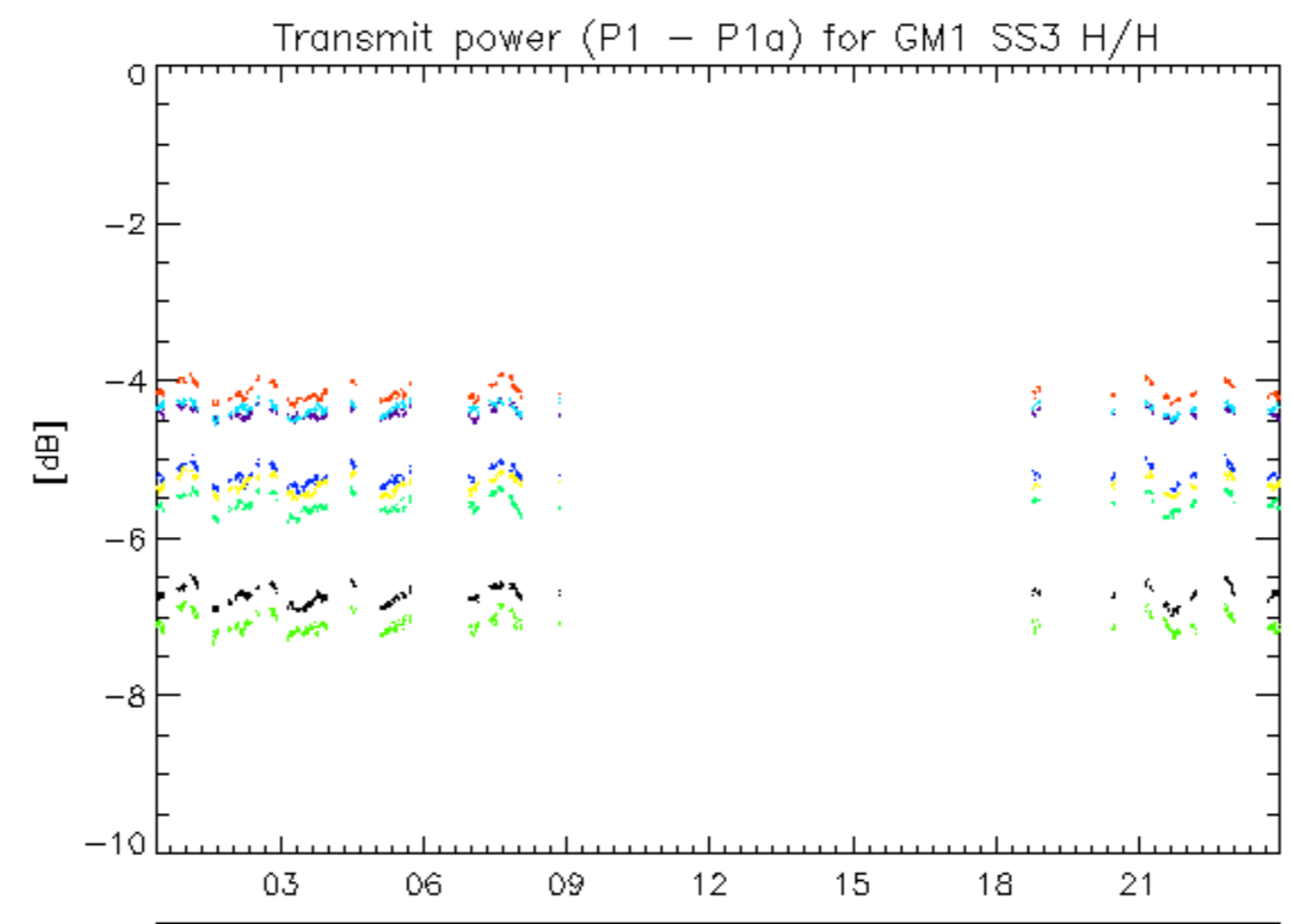


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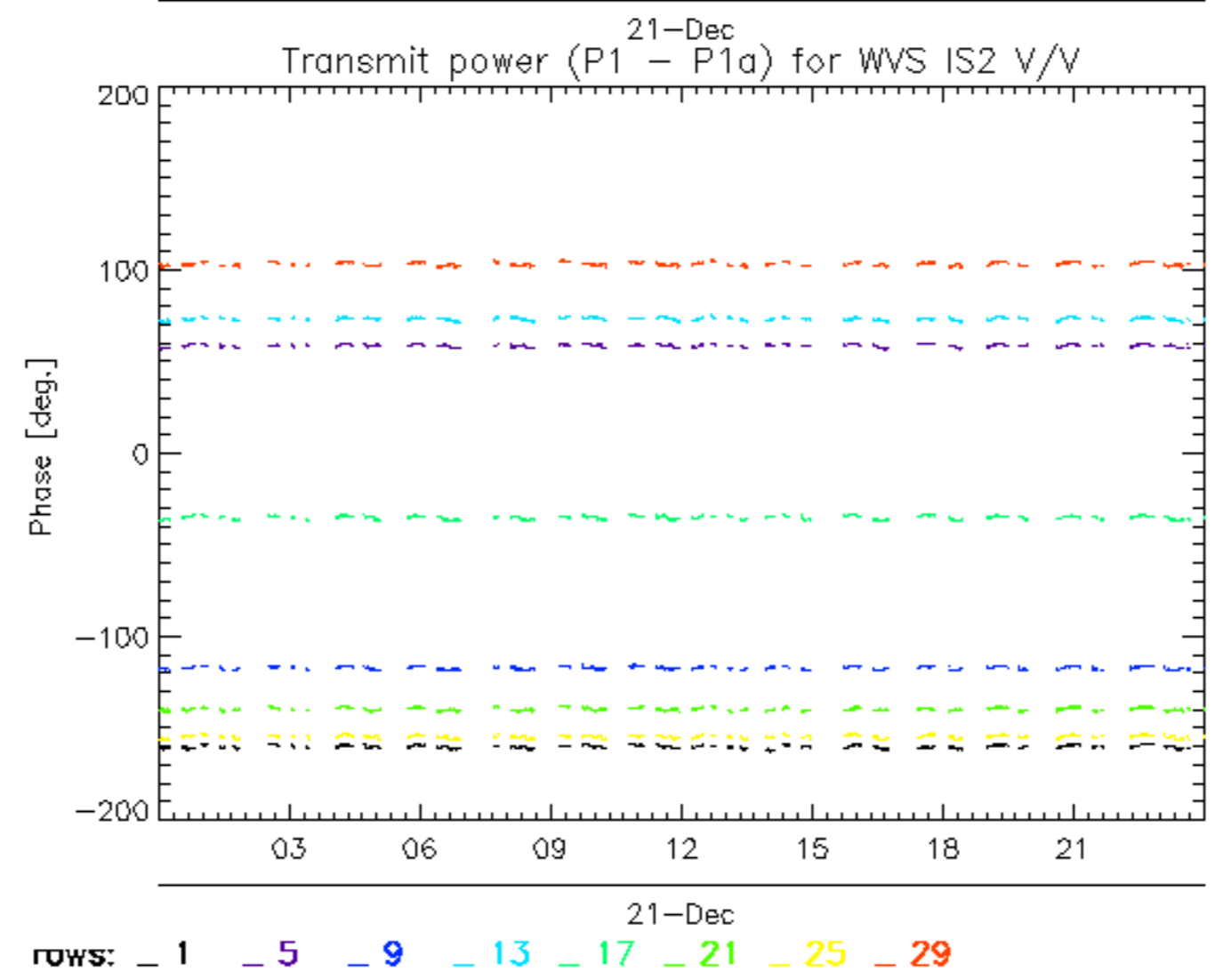
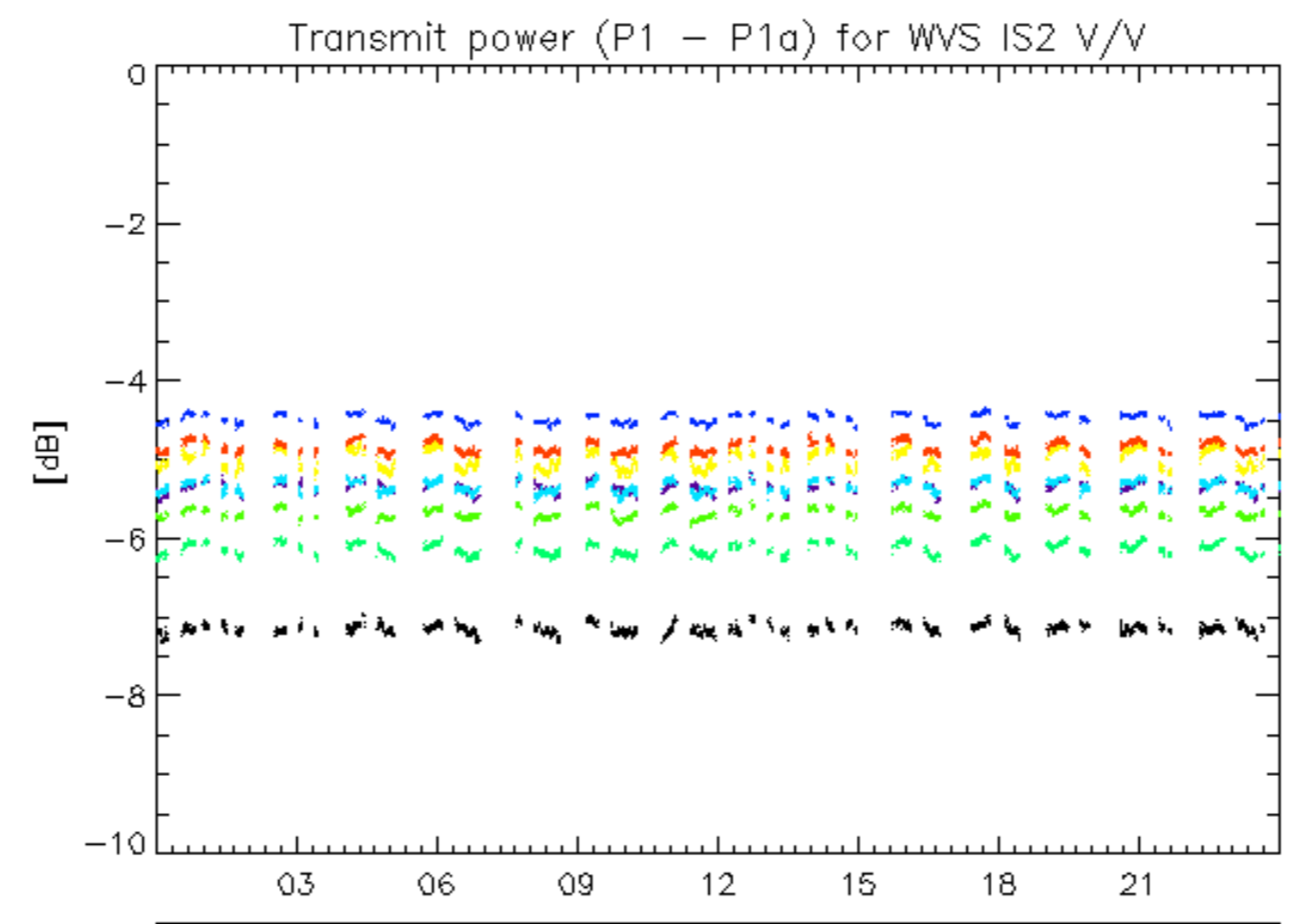


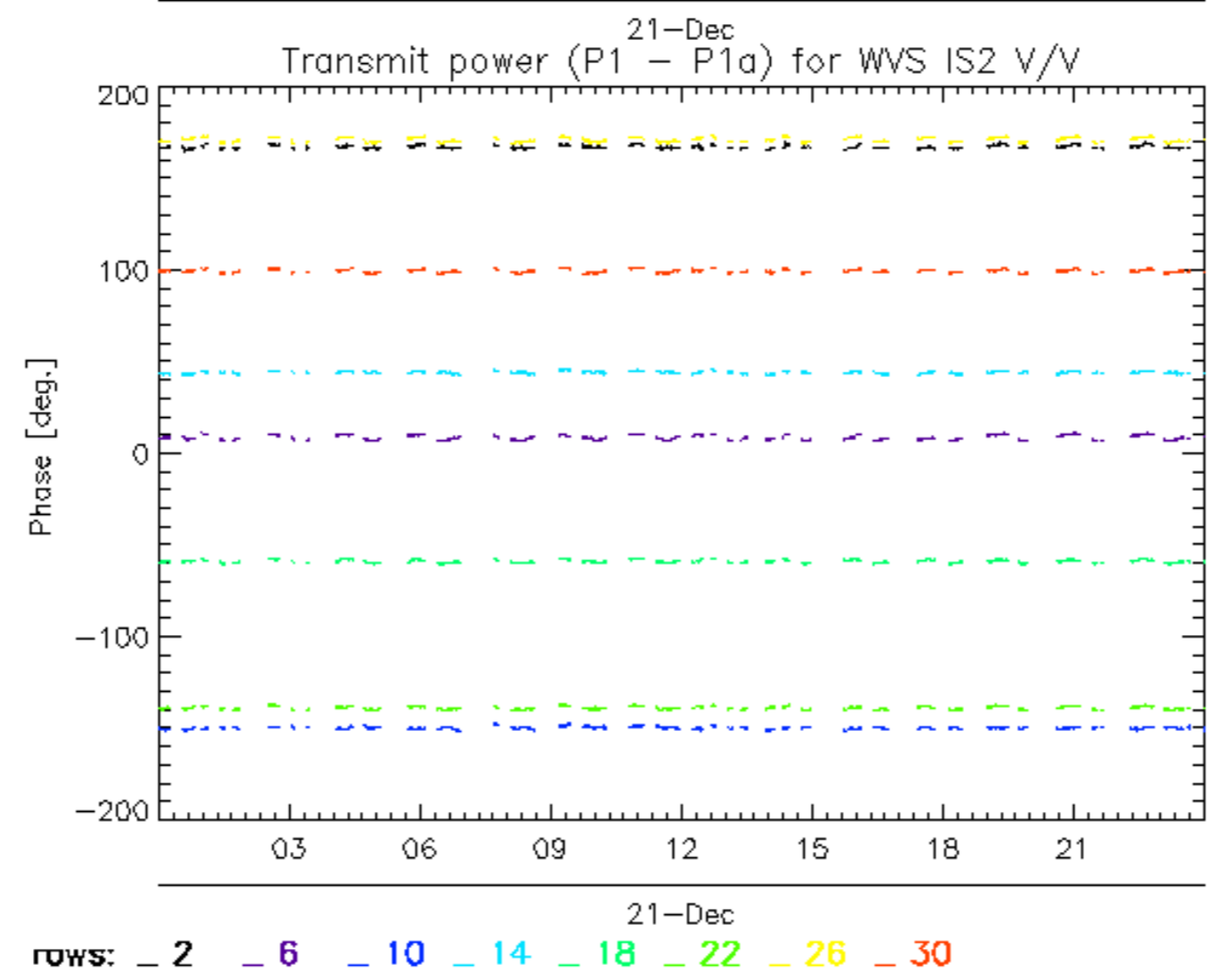
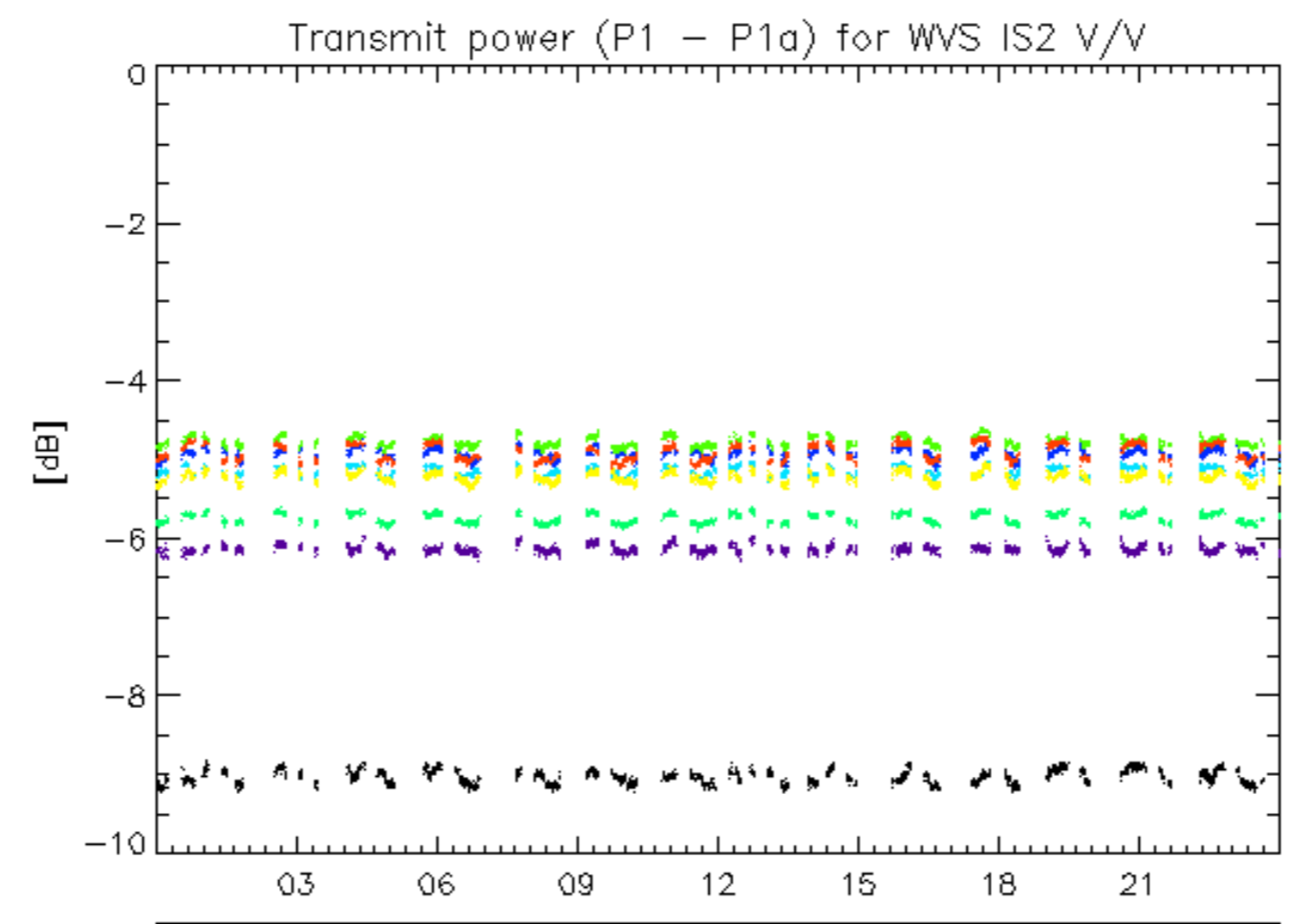


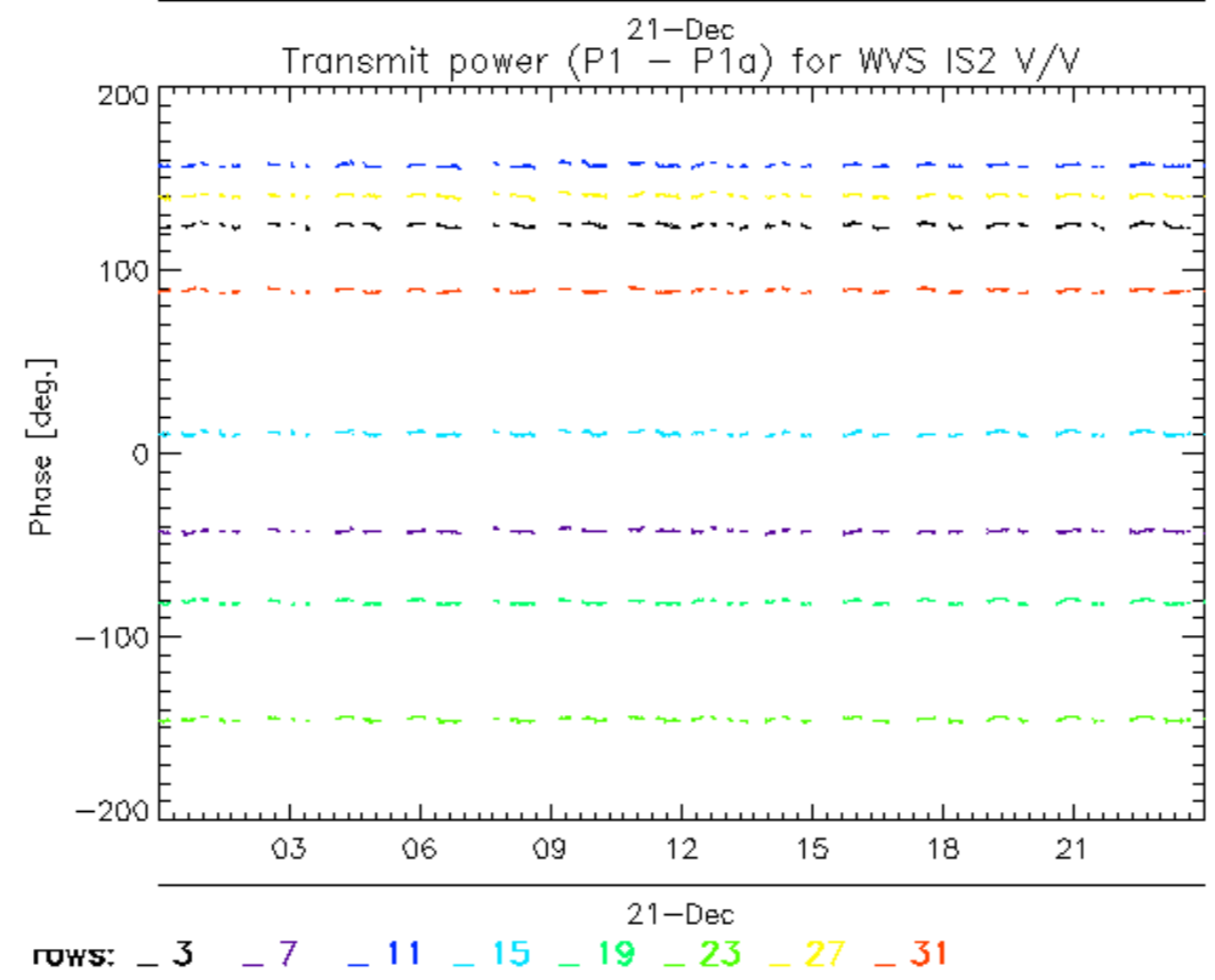
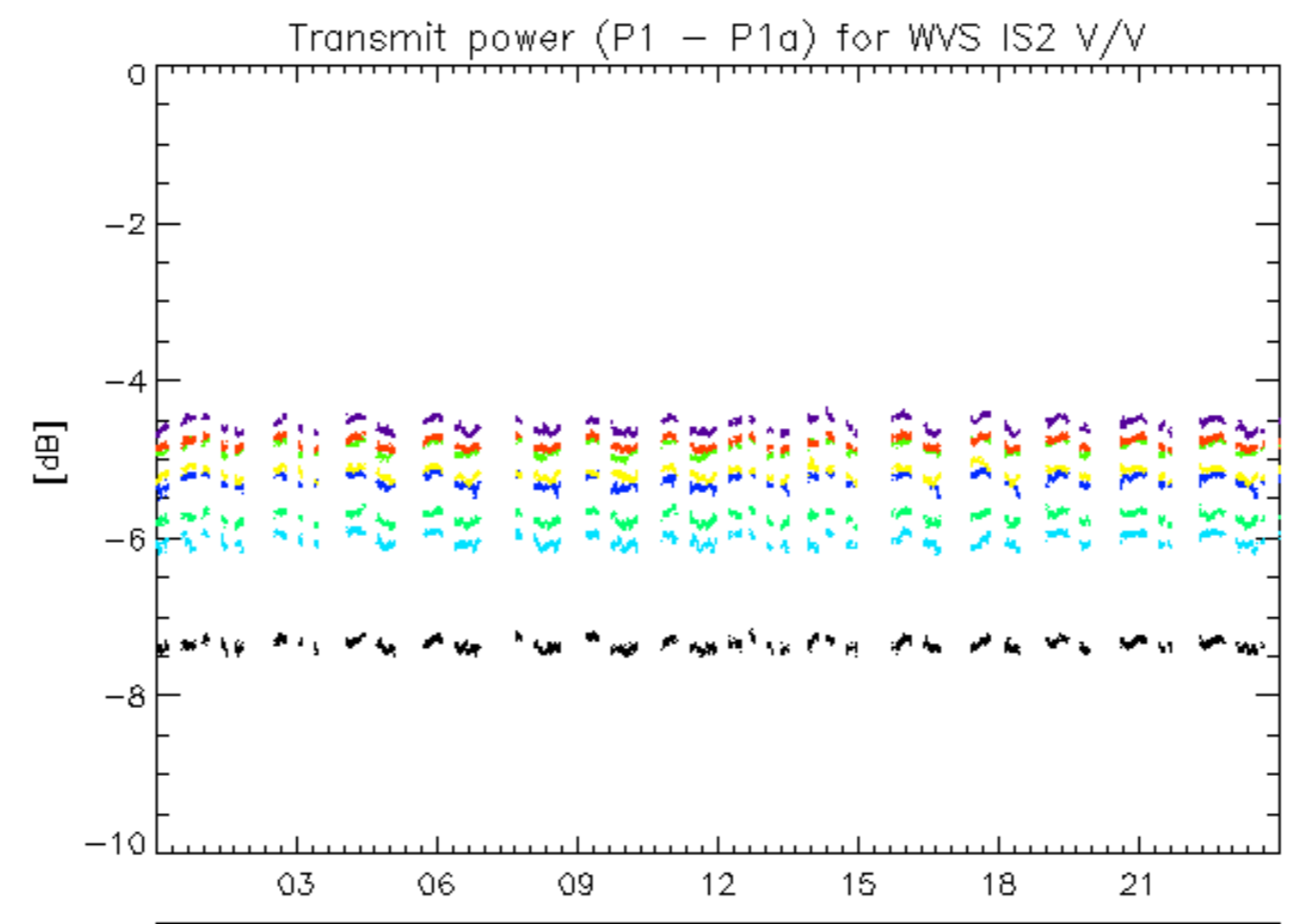
21-Dec  
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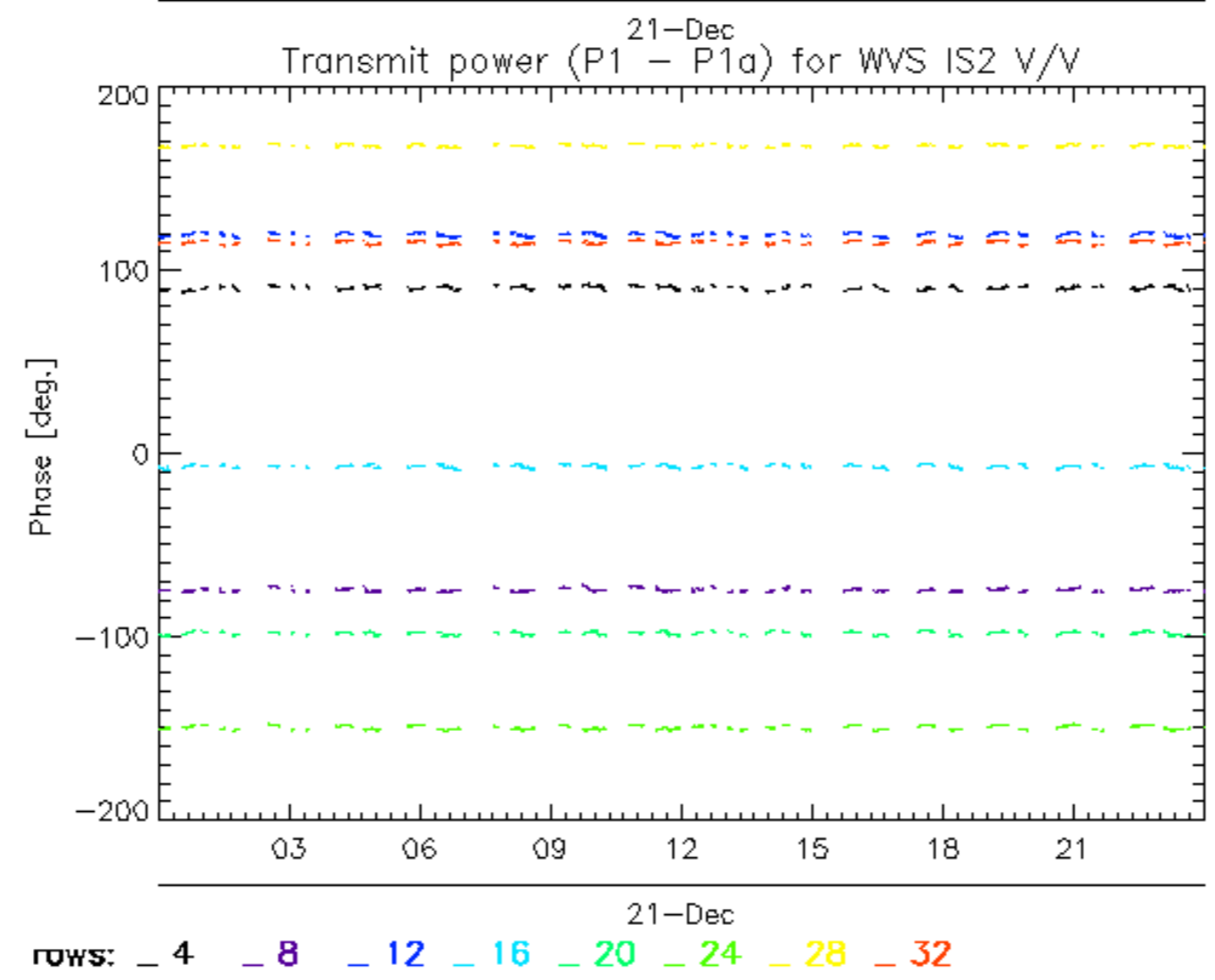
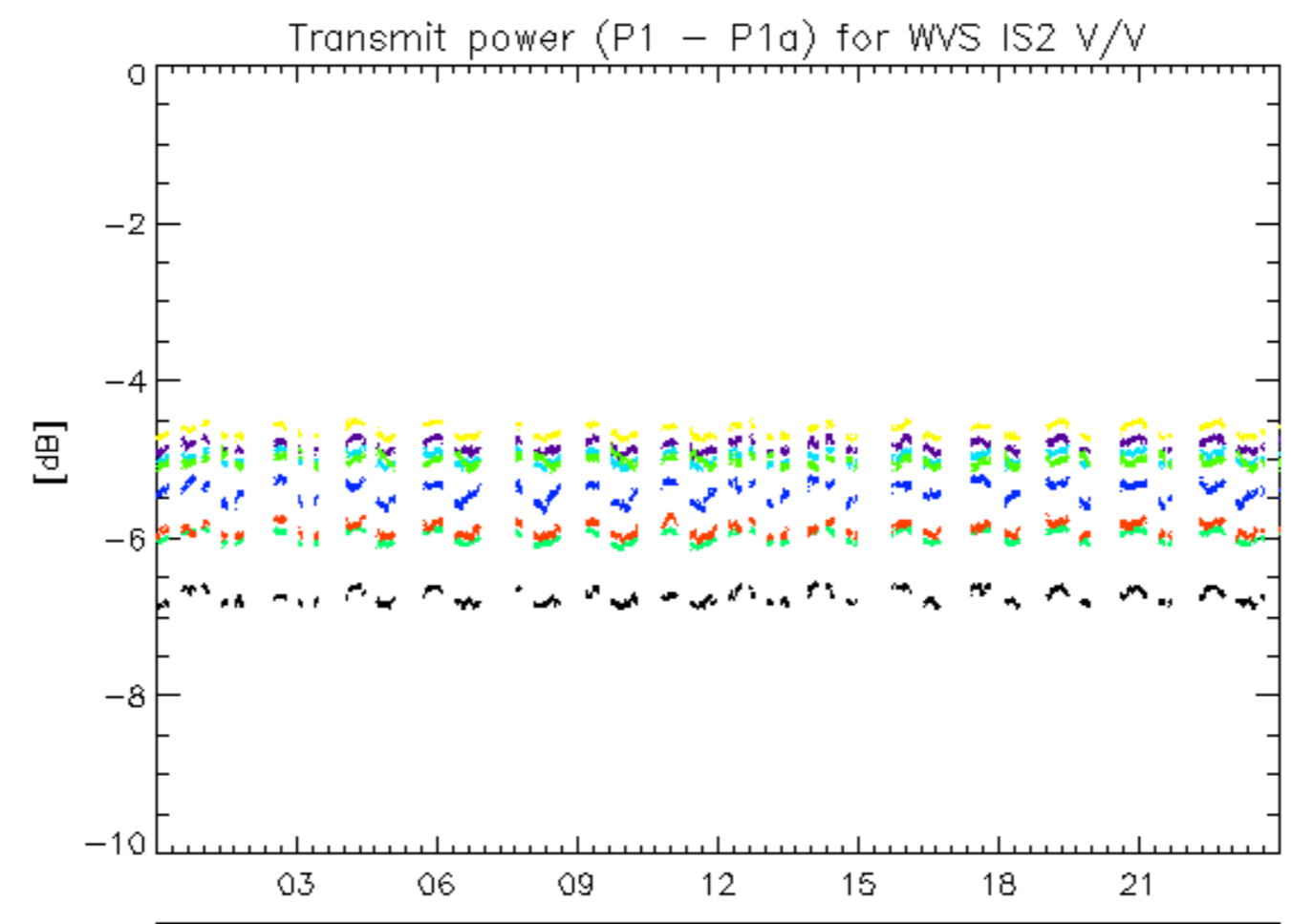




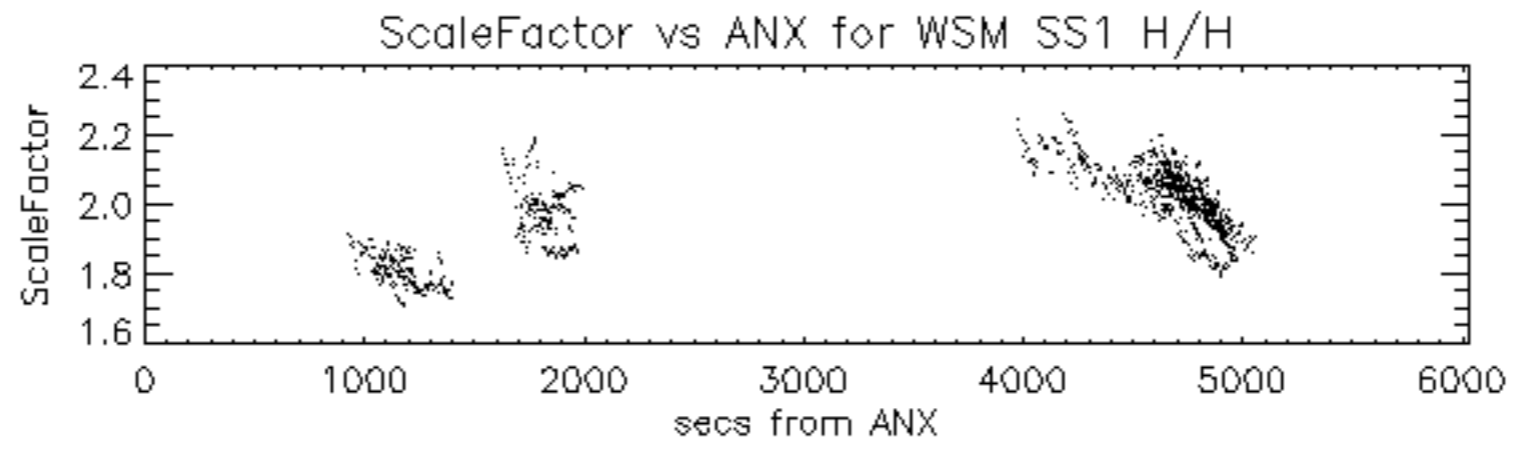


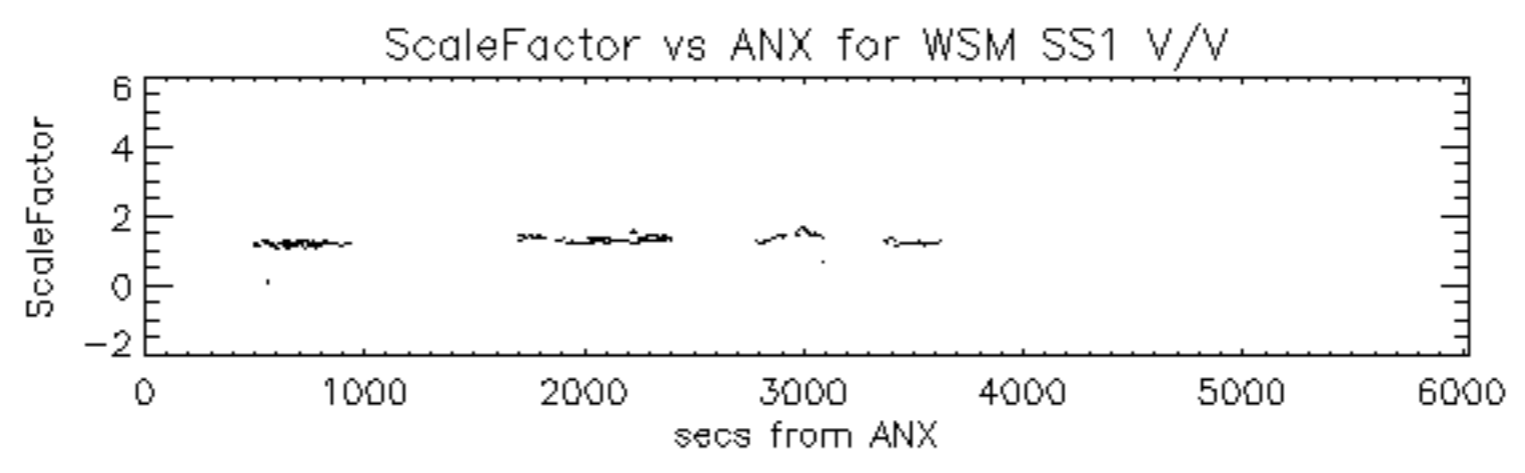


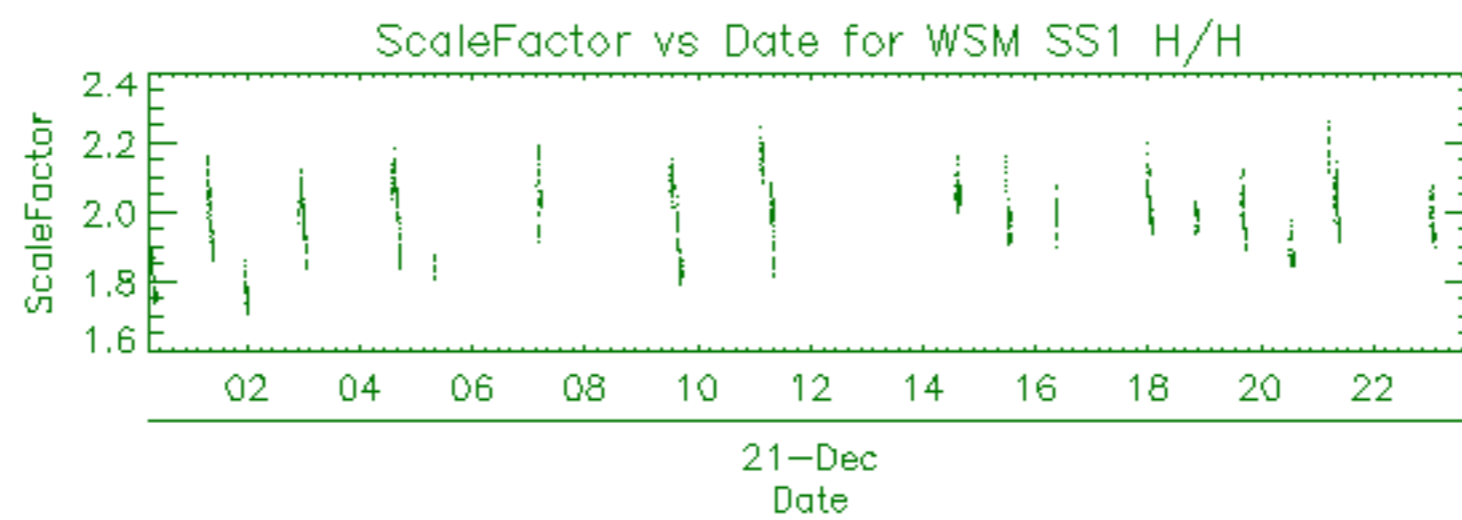


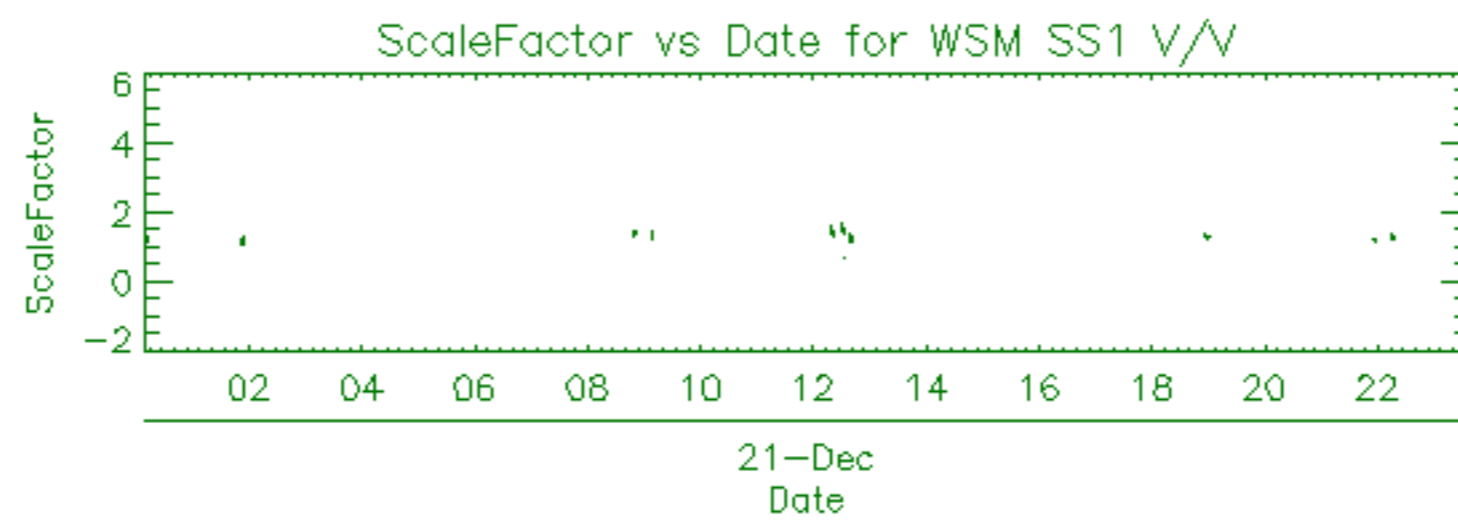














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ASA_GM1_1PNPDE20101221_015344_000001933097_00348_46052_6184.N1						SS1	H/H	97	46052	348	5.04
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ASA_GM1_1PNPDE20101221_032641_000008223097_00349_46053_6211.N1						SS1	H/H	97	46053	349	5.04
ASA_GM1_1PNPDE20101221_034109_000009913097_00349_46053_6209.N1						SS1	H/H	97	46053	349	5.04
ASA_GM1_1PNPDE20101221_042659_000003863097_00349_46053_6233.N1						SS1	H/H	97	46053	349	5.04
ASA_GM1_1PNPDE20101221_050455_000008463097_00350_46054_6232.N1						SS1	H/H	97	46054	350	5.04
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ASA_GM1_1PNPDK20101221_072318_000005493097_00351_46055_8271.N1						SS1	H/H	97	46055	351	5.04
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ASA_GM1_1PNPDE20101221_210921_000001503097_00359_46063_6325.N1						SS1	H/H	97	46063	359	5.04
ASA_GM1_1PNPDE20101221_211408_000002593097_00359_46063_6323.N1						SS1	H/H	97	46063	359	5.04
ASA_GM1_1PNPDE20101221_213234_000003503097_00359_46063_6337.N1						SS1	H/H	97	46063	359	5.04
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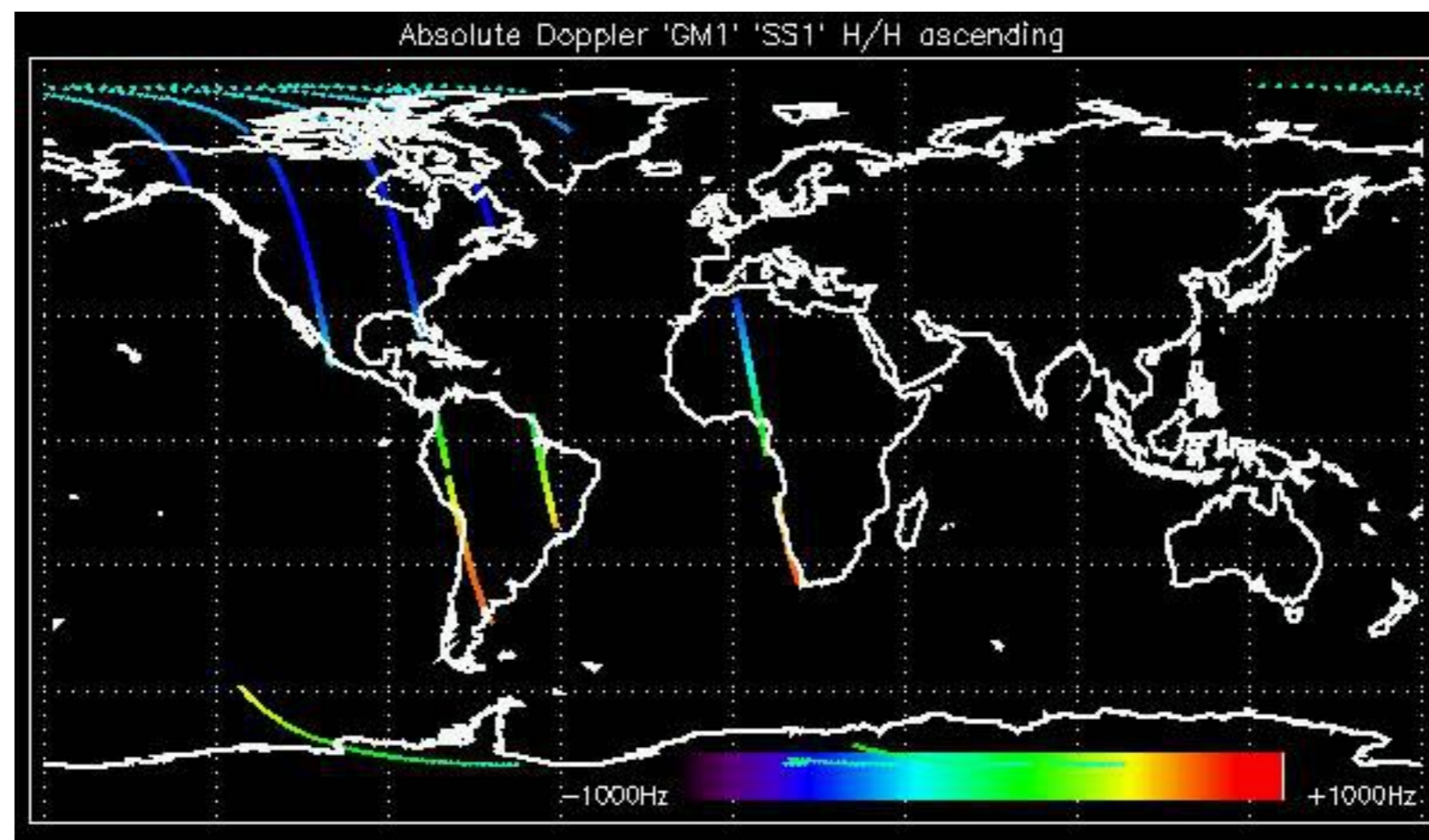
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ASA_IMM_1PNPDE20101221_053704_000002363097_00350_46054_6221.N1						IS6	H/H	97	46054	350	5.04
ASA_IMM_1PNPDE20101221_071655_000003733097_00351_46055_6245.N1						IS6	H/H	97	46055	351	5.04
ASA_IMM_1PNPDE20101221_073224_000001063097_00351_46055_6246.N1						IS2	H/H	97	46055	351	5.04
ASA_IMM_1PNPDE20101221_141304_000000393097_00355_46059_6312.N1						IS2	V/V	97	46059	355	5.04
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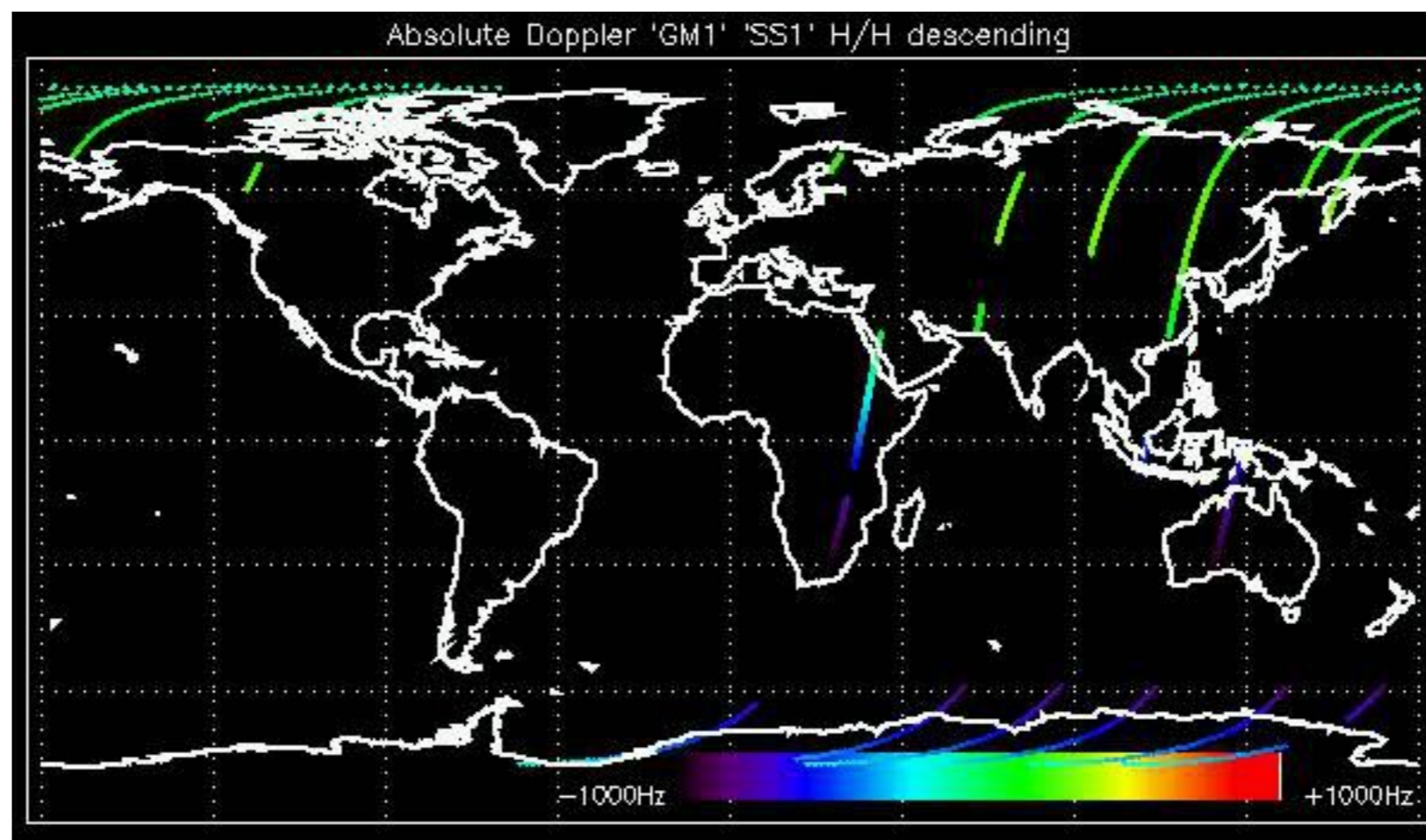
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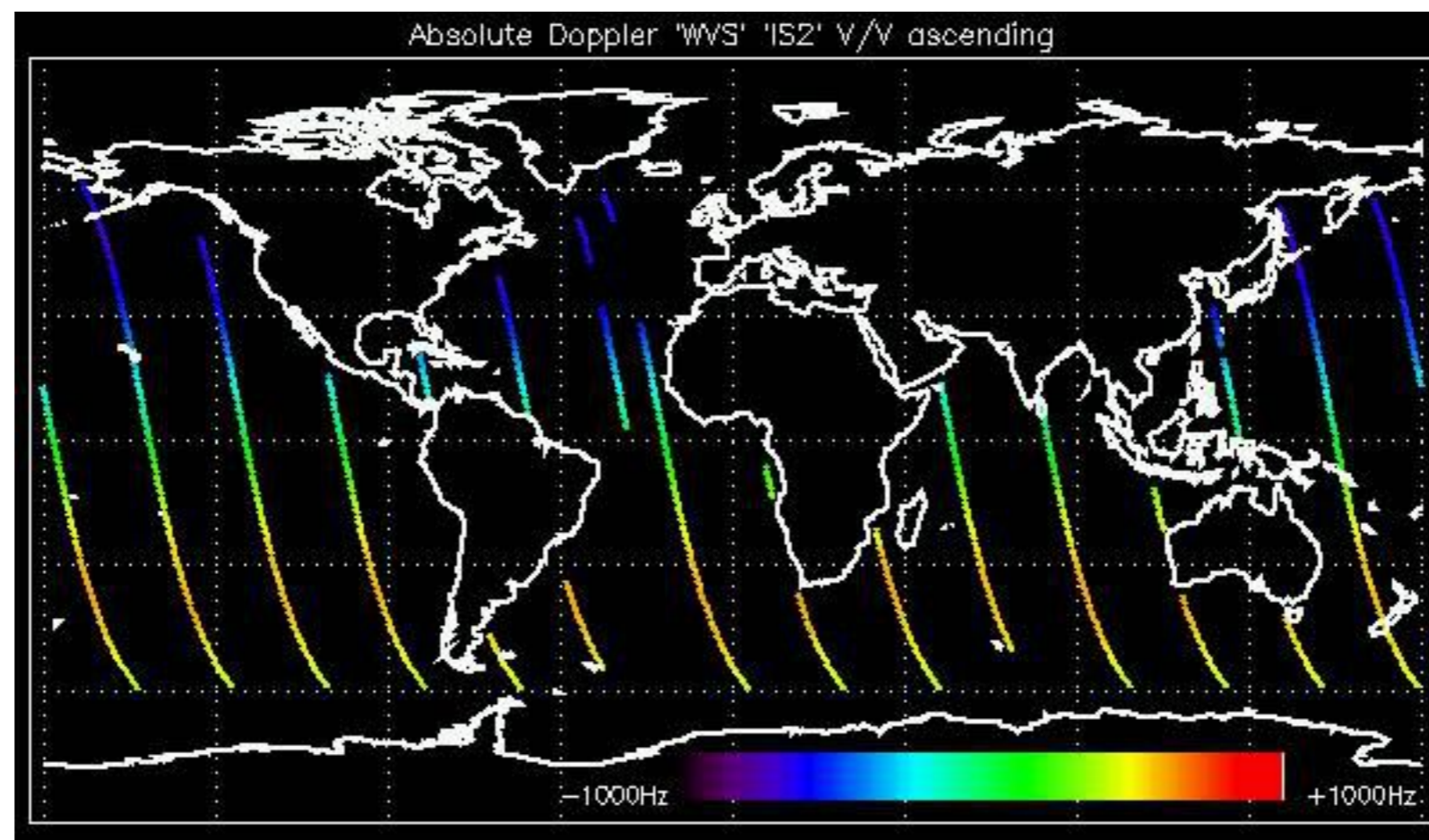
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ASA_WSM_1PNPDE20101221_015106_000001533097_00348_46052_6183.N1						SS1	V/V	97	46052	348	5.04
ASA_WSM_1PNPDE20101221_015700_000002693097_00348_46052_6189.N1						SS1	H/H	97	46052	348	5.04
ASA_WSM_1PNPDE20101221_025507_000004533097_00348_46052_6198.N1						SS1	H/H	97	46052	348	5.04
ASA_WSM_1PNPDE20101221_043327_000005753097_00349_46053_6222.N1						SS1	H/H	97	46053	349	5.04
ASA_WSM_1PNPDE20101221_051907_000000983097_00350_46054_6224.N1						SS1	H/H	97	46054	350	5.04
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ASA_WSM_1PNPDE20101221_143451_000002943097_00355_46059_6313.N1						SS1	H/H	97	46059	355	5.04
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ASA_WSM_1PNPDE20101221_203045_000002753097_00359_46063_6326.N1						SS1	H/H	97	46063	359	5.04
ASA_WSM_1PNPDE20101221_211158_000001283097_00359_46063_6330.N1						SS1	H/H	97	46063	359	5.04
ASA_WSM_1PNPDE20101221_211834_000003493097_00359_46063_6321.N1						SS1	H/H	97	46063	359	5.04
ASA_WSM_1PNPDE20101221_215549_000001533097_00360_46064_6336.N1						SS1	V/V	97	46064	360	5.04
ASA_WSM_1PNPDE20101221_221332_000002693097_00360_46064_6341.N1						SS1	V/V	97	46064	360	5.04
ASA_WSM_1PNPDE20101221_230051_000002693097_00360_46064_6340.N1						SS1	H/H	97	46064	360	5.04
ASA_WSM_1PNPDE20101221_233051_000003923097_00361_46065_6358.N1						SS1	V/V	97	46065	361	5.04
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Filename	Beam	Pol	CycleNumber	absOrbit	relOrbit	procVersion					
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ASA_WVS_1PNPDE20101221_012354_000002093097_00347_46051_6167.N1						IS2	V/V	97	46051	347	5.04
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ASA_WVS_1PNPDK20101221_094337_000019943097_00352_46056_8315.N1						IS2	V/V	97	46056	352	5.04
ASA_WVS_1PNPDK20101221_104849_000010493097_00353_46057_8330.N1						IS2	V/V	97	46057	353	5.04
ASA_WVS_1PNPDK20101221_112400_000019493097_00353_46057_8334.N1						IS2	V/V	97	46057	353	5.04
ASA_WVS_1PNPDK20101221_121357_000001953097_00354_46058_8362.N1						IS2	V/V	97	46058	354	5.04
ASA_WVS_1PNPDK20101221_122121_000004943097_00354_46058_8363.N1						IS2	V/V	97	46058	354	5.04
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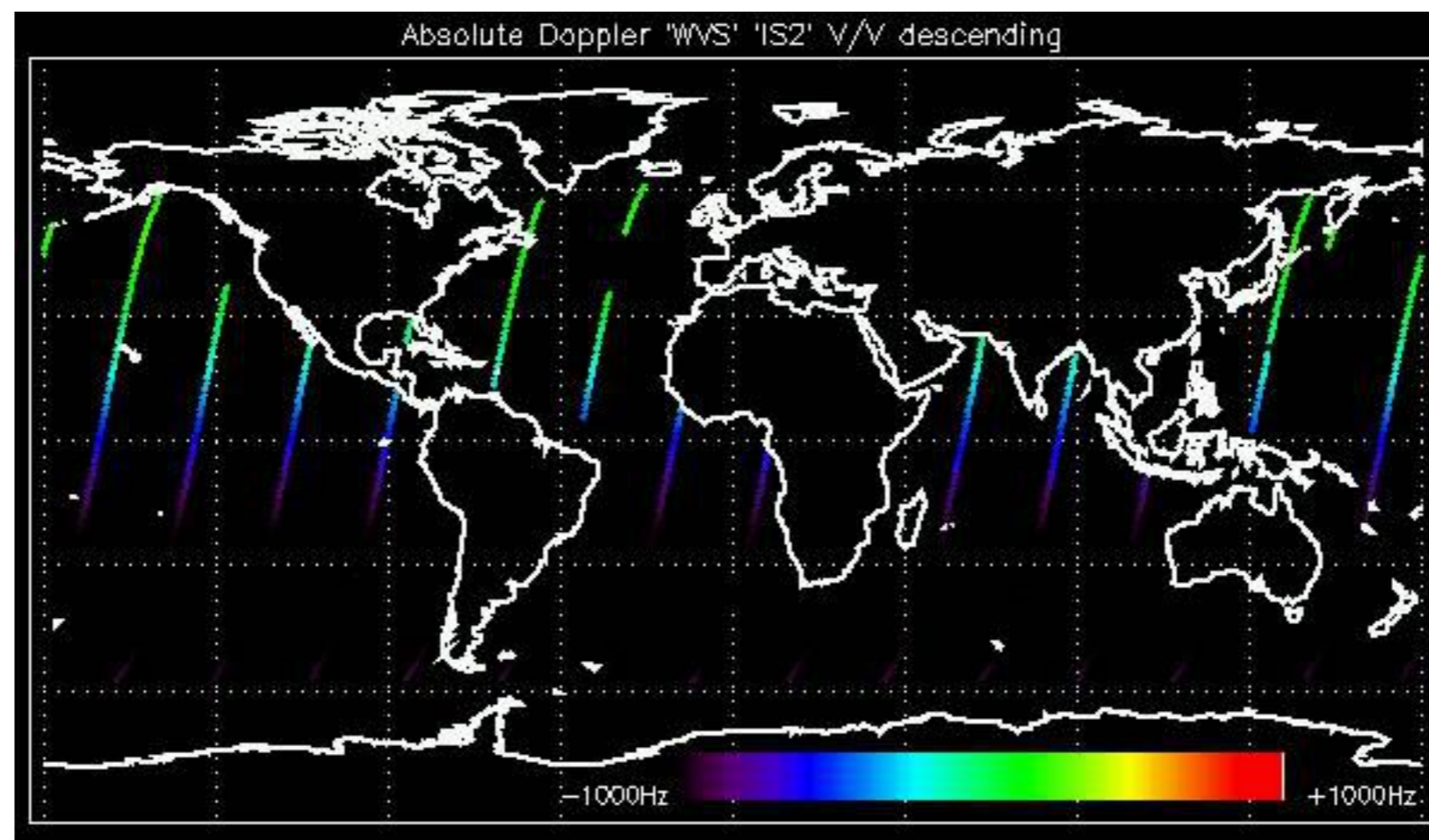


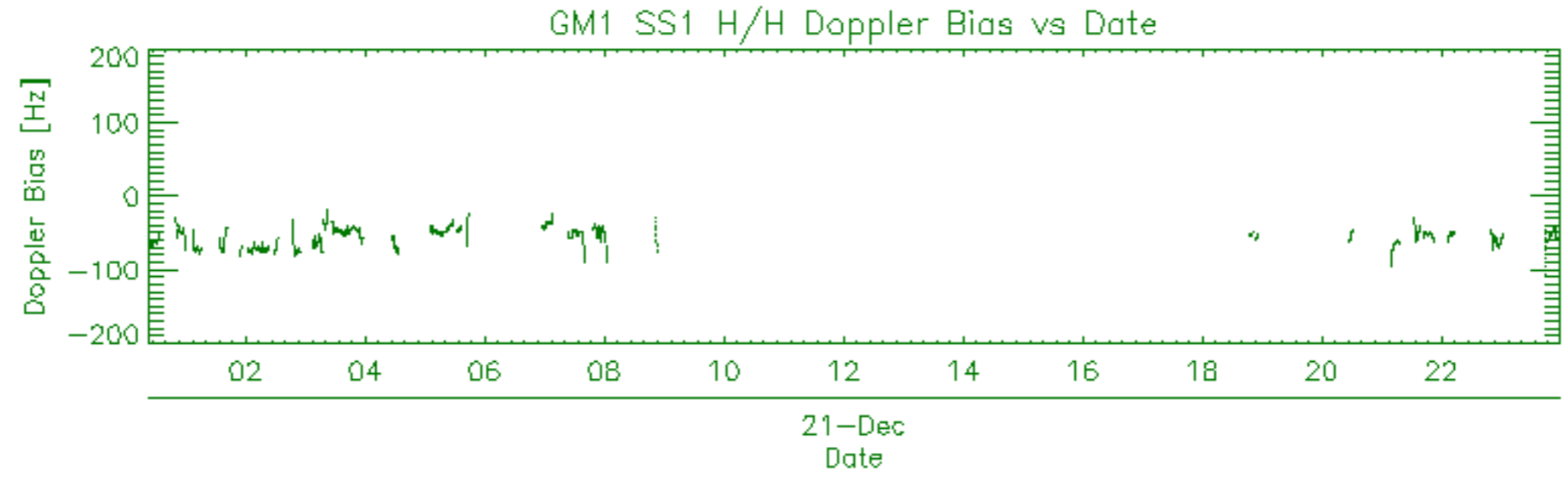
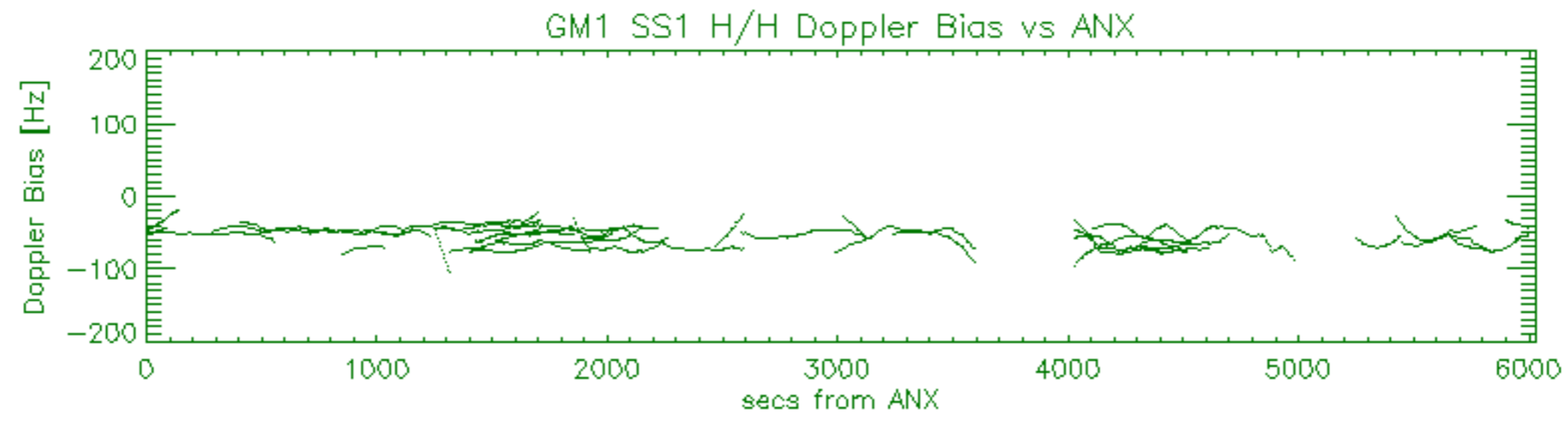
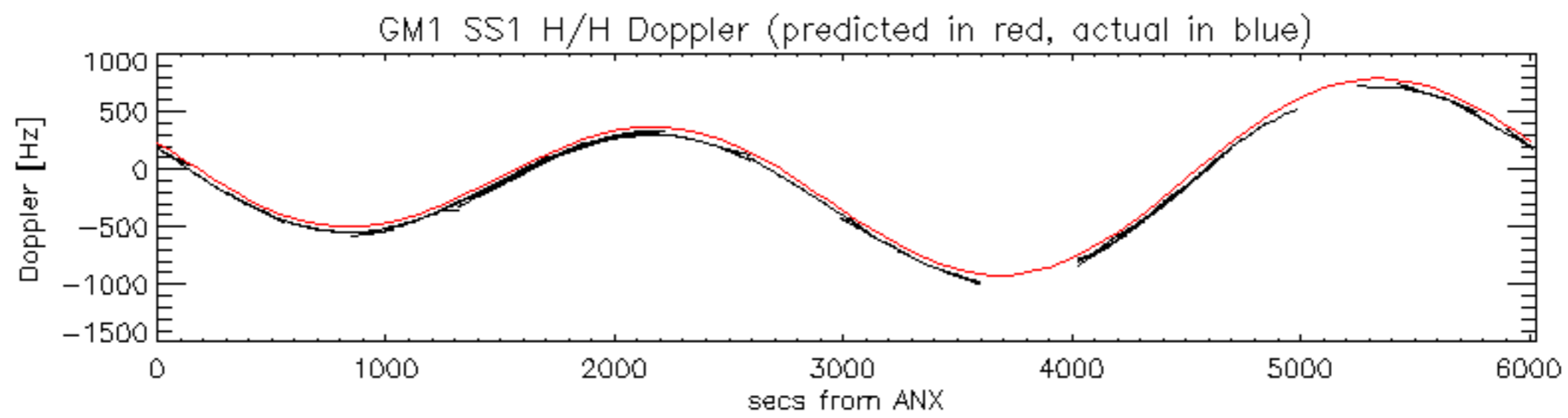




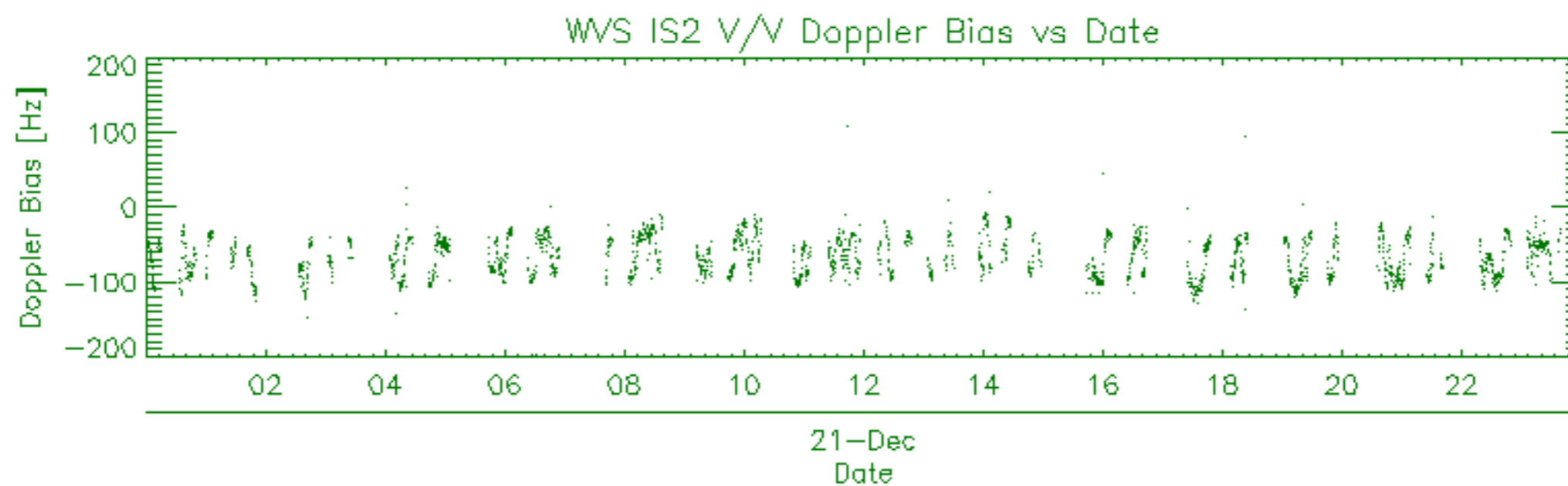
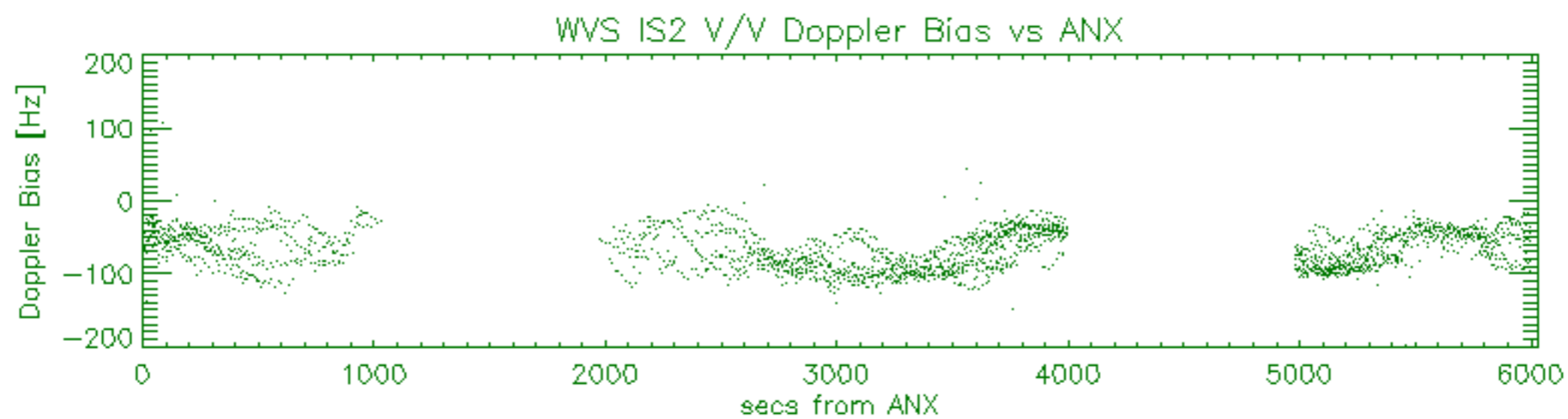
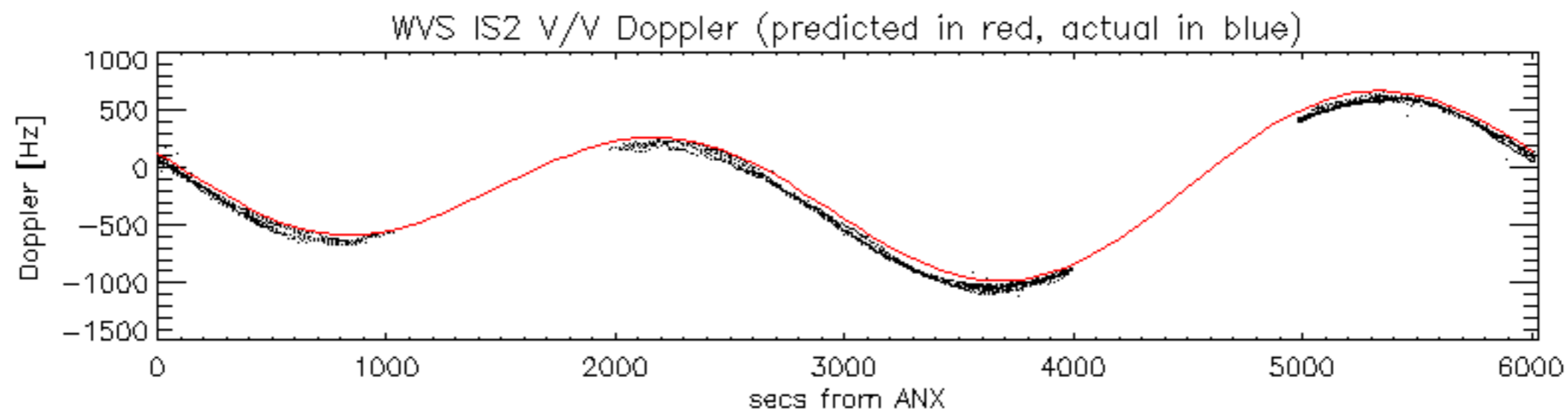


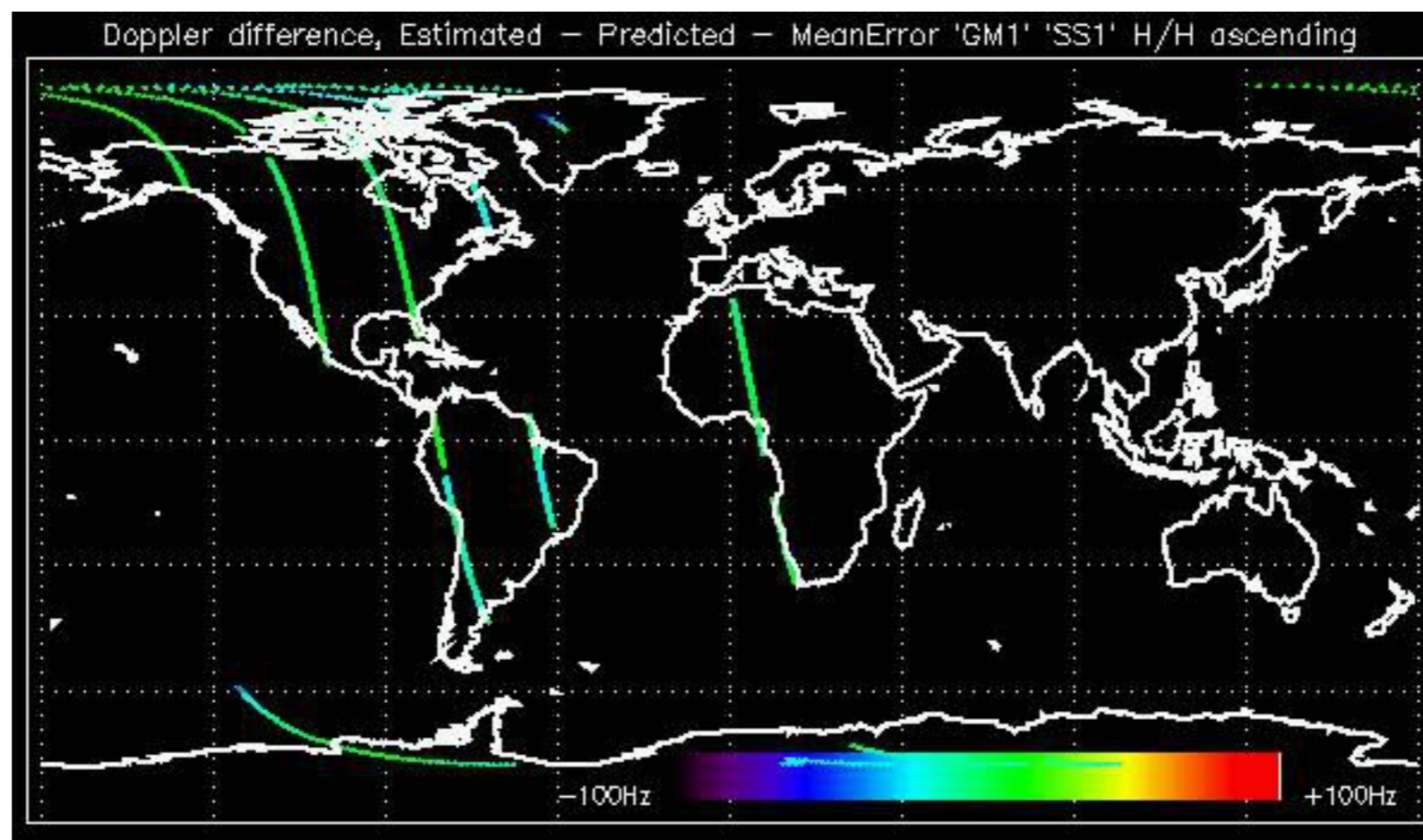


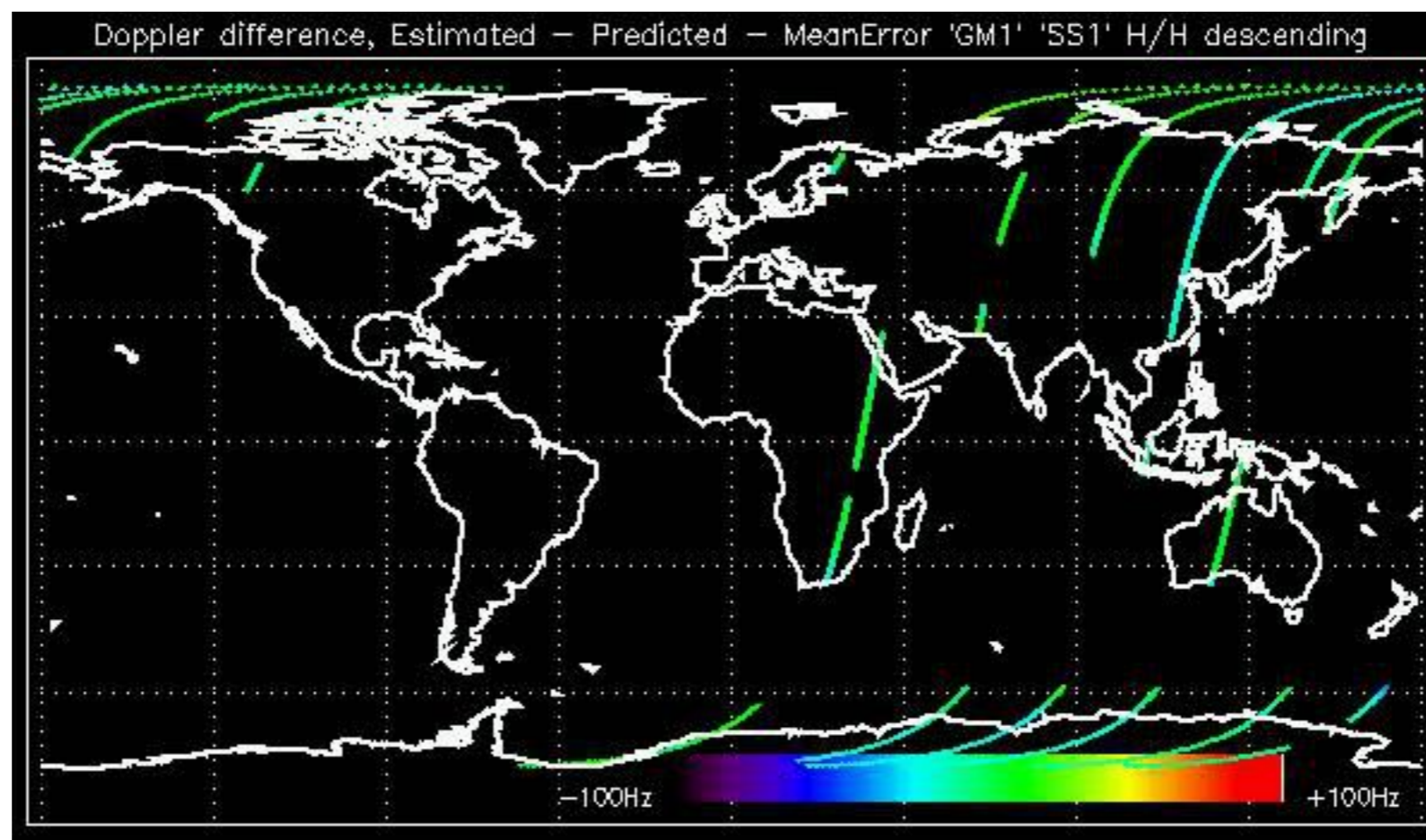


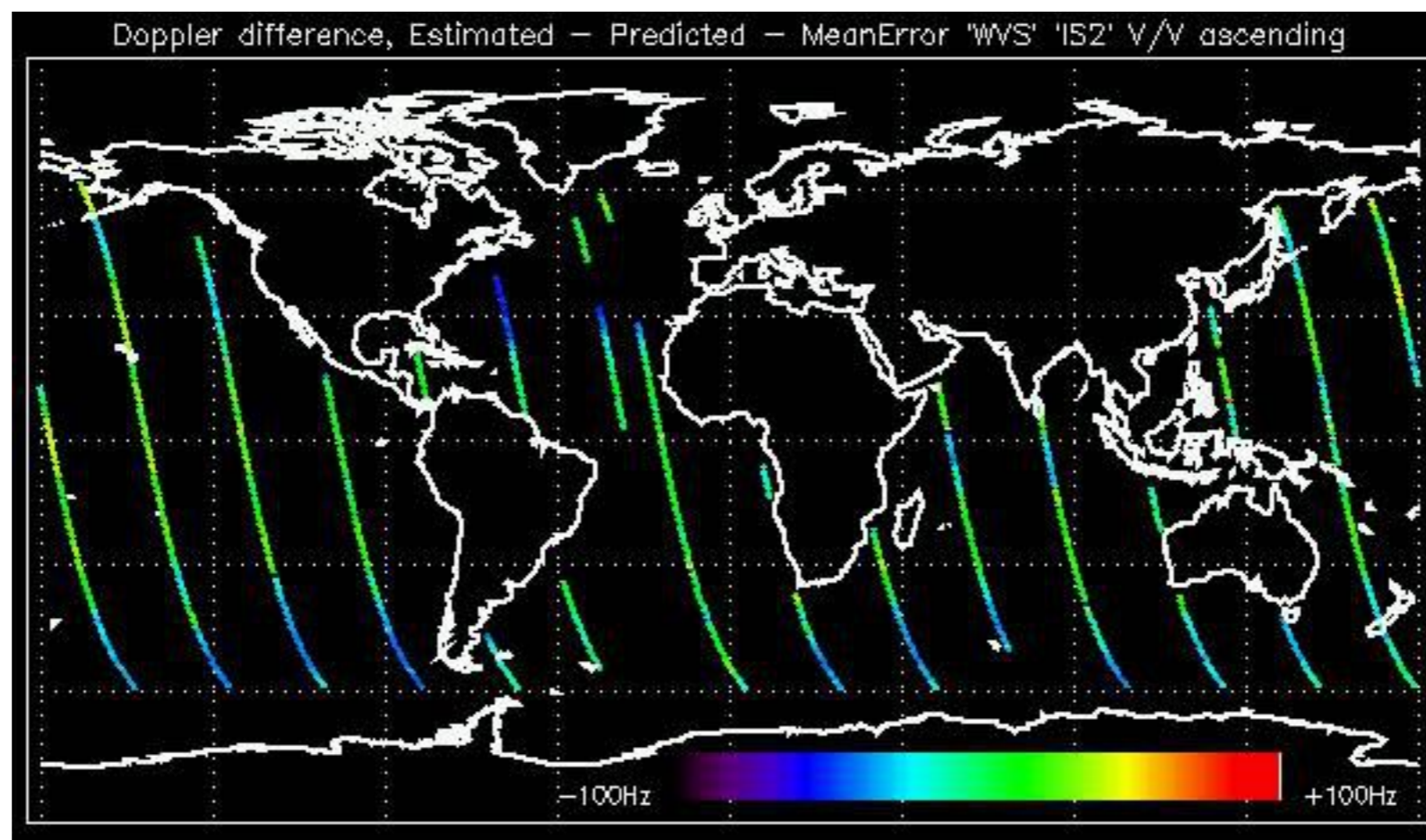




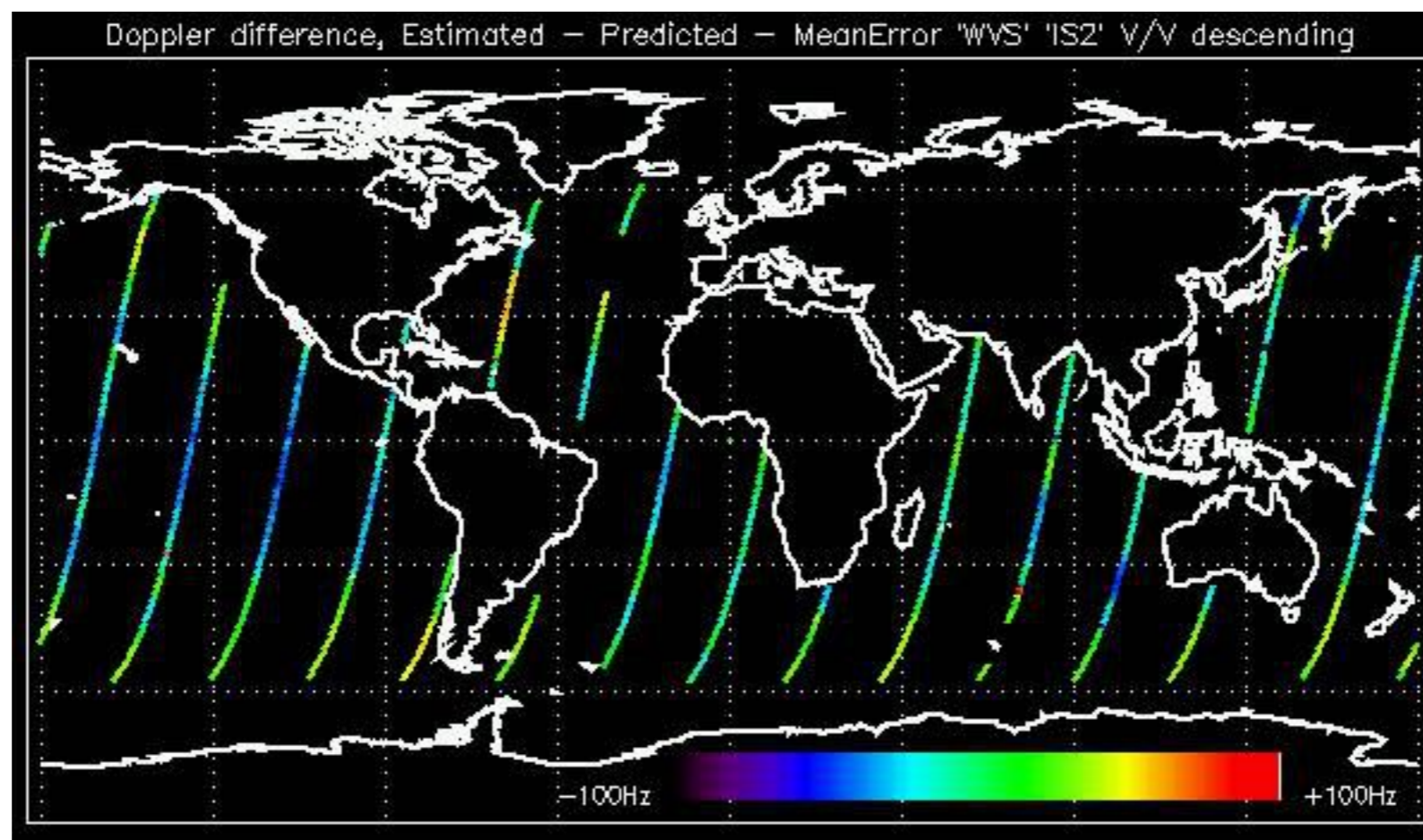




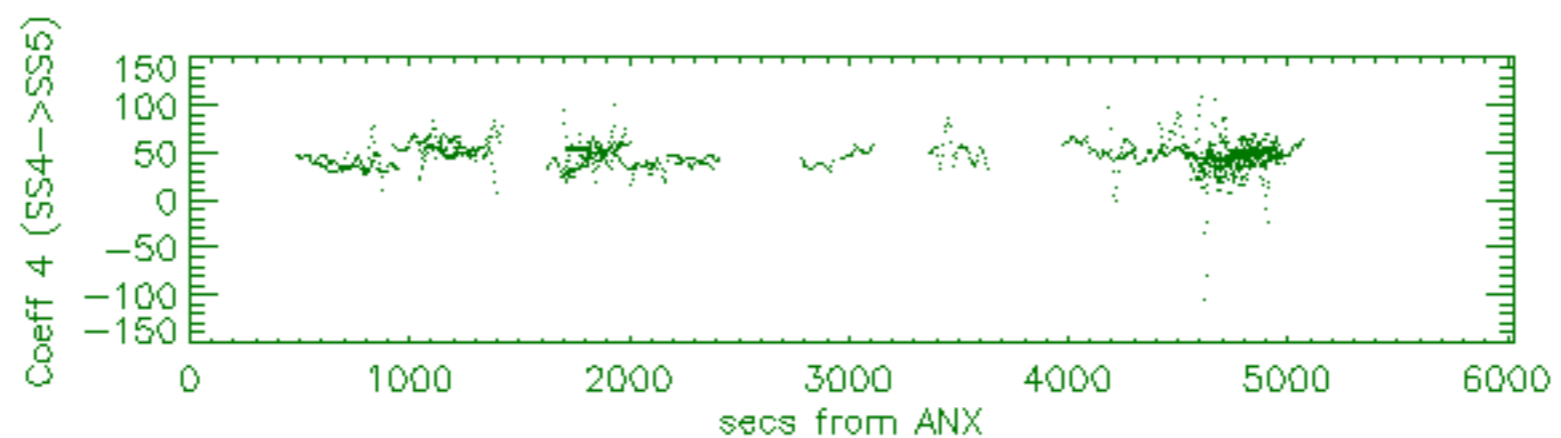
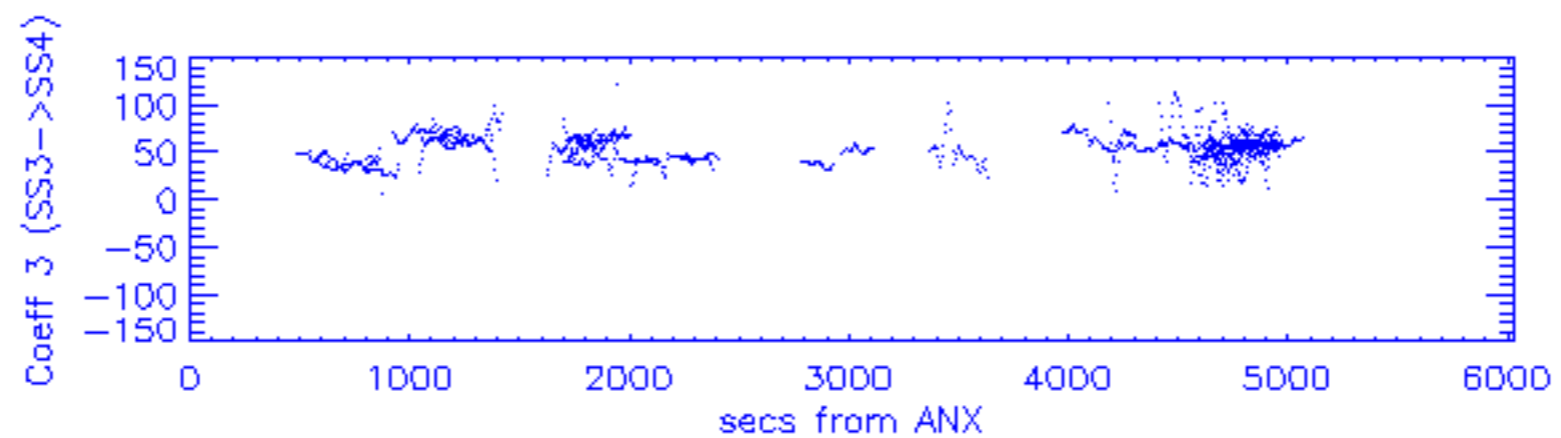
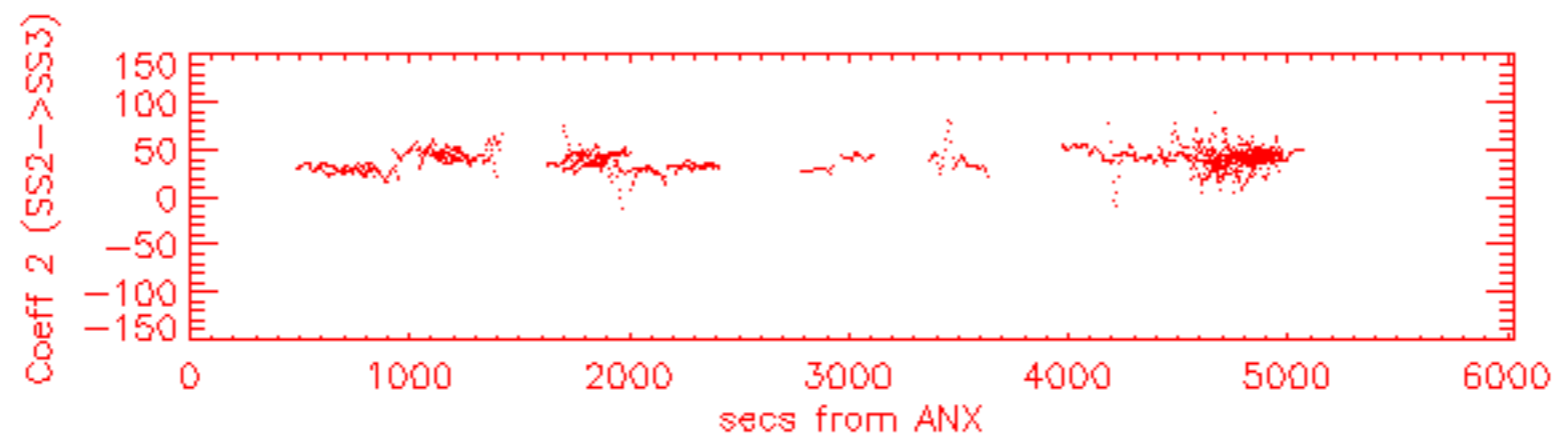
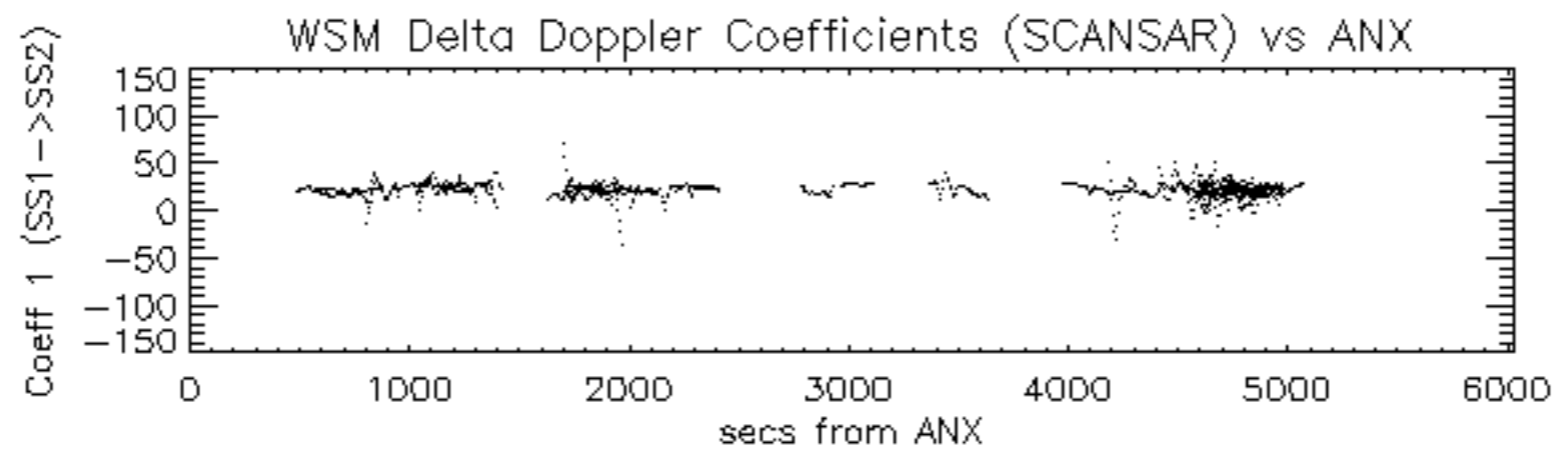


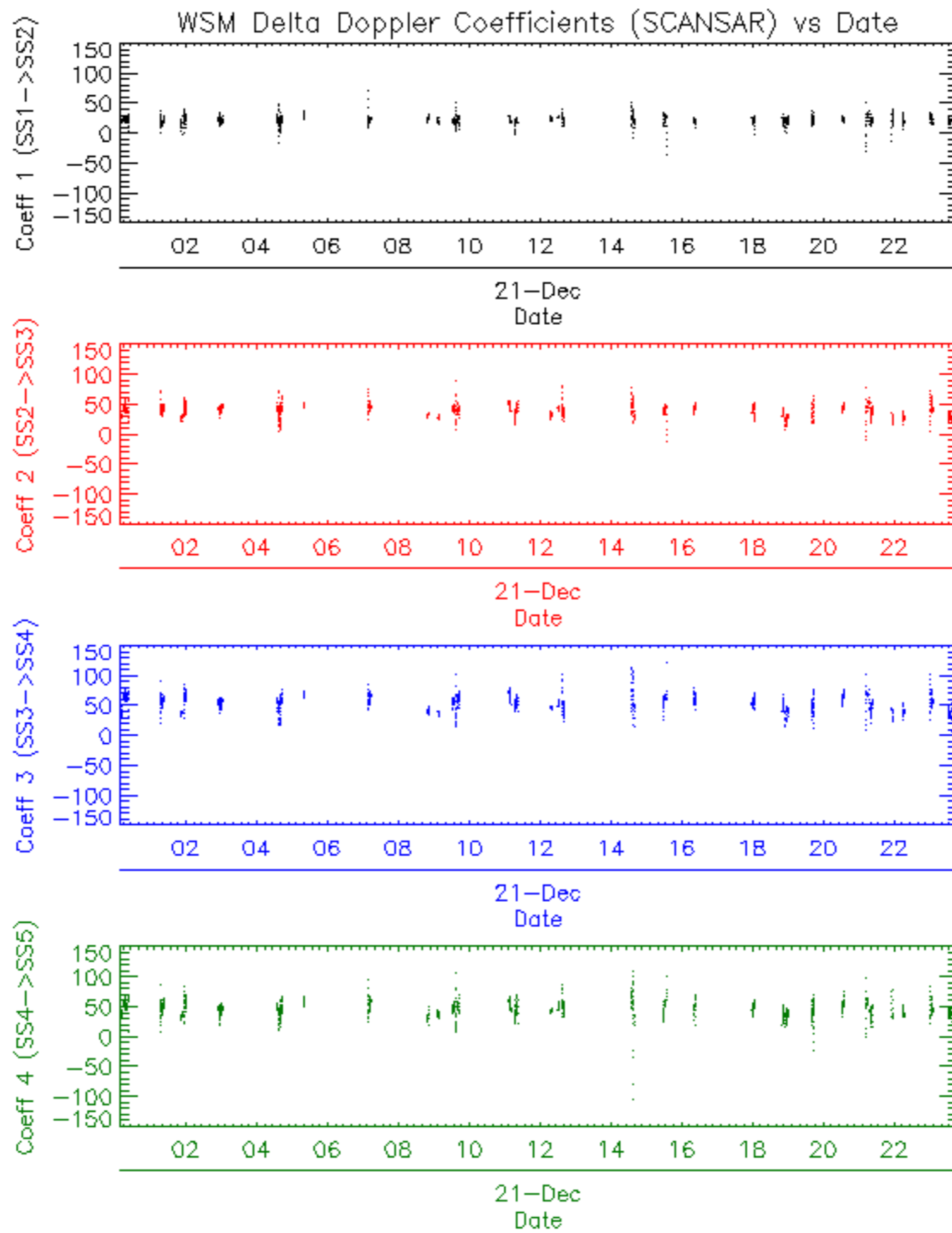






















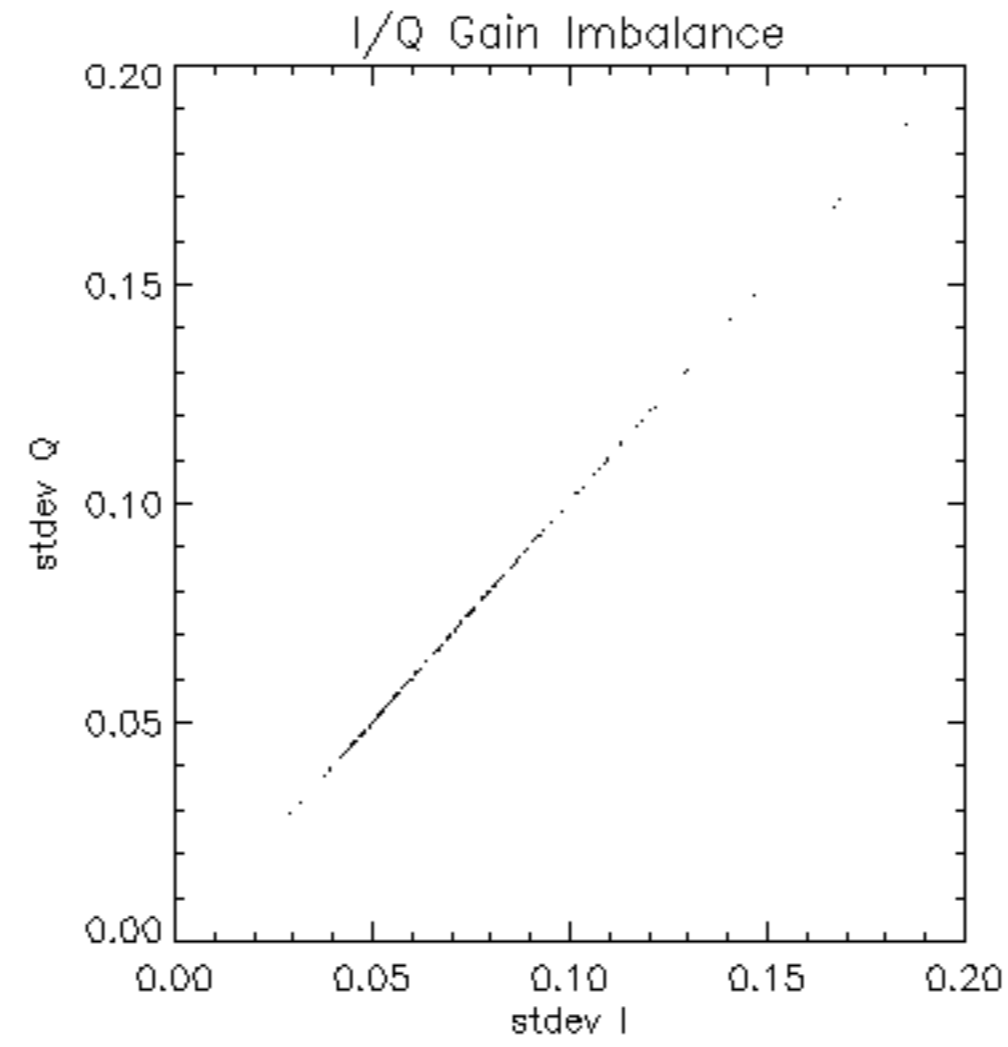


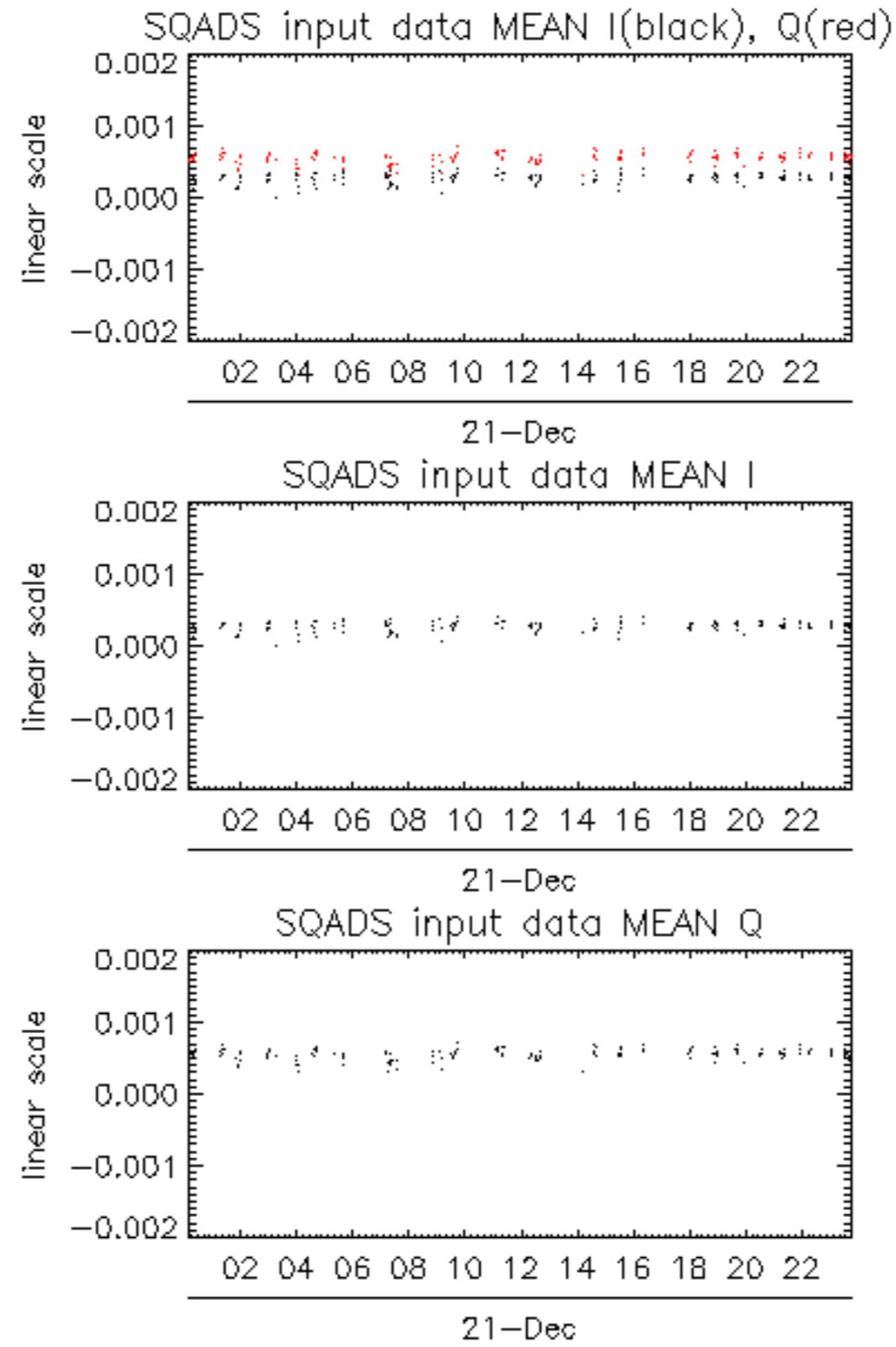


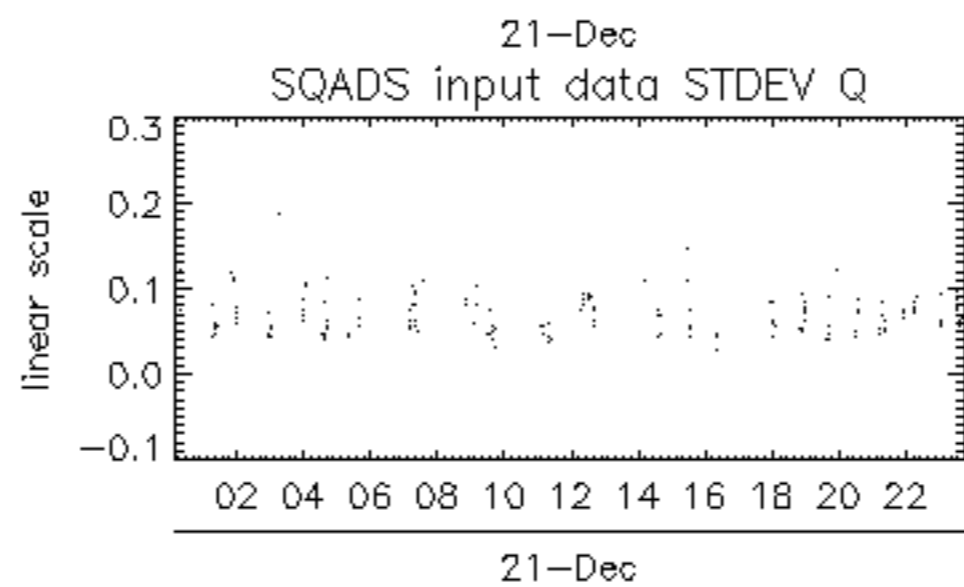
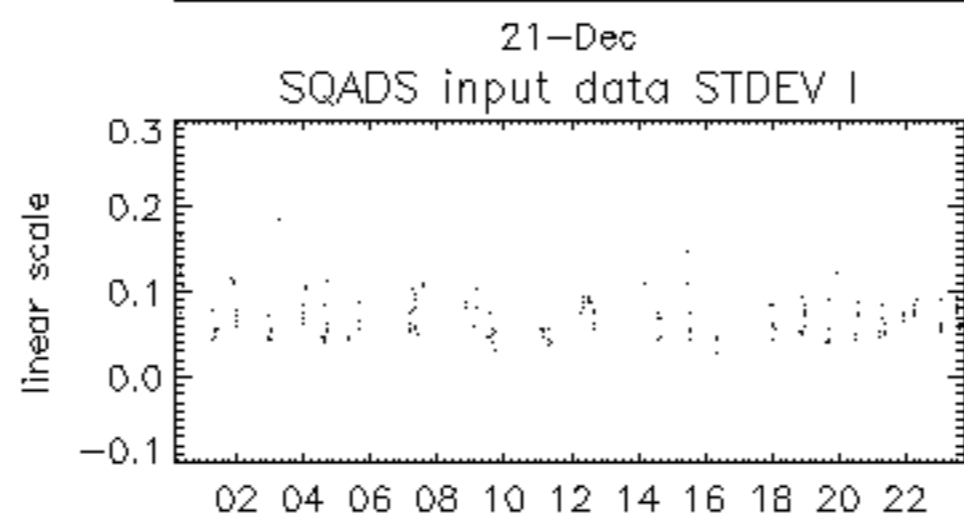
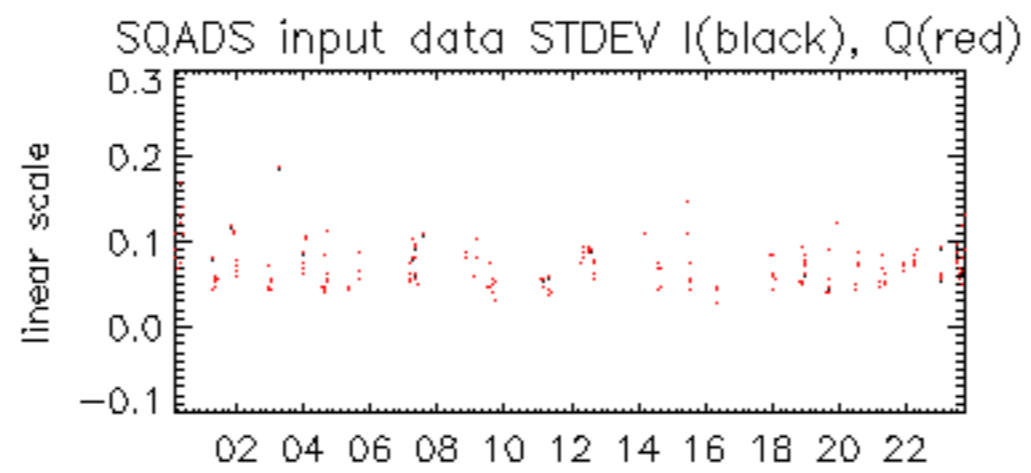


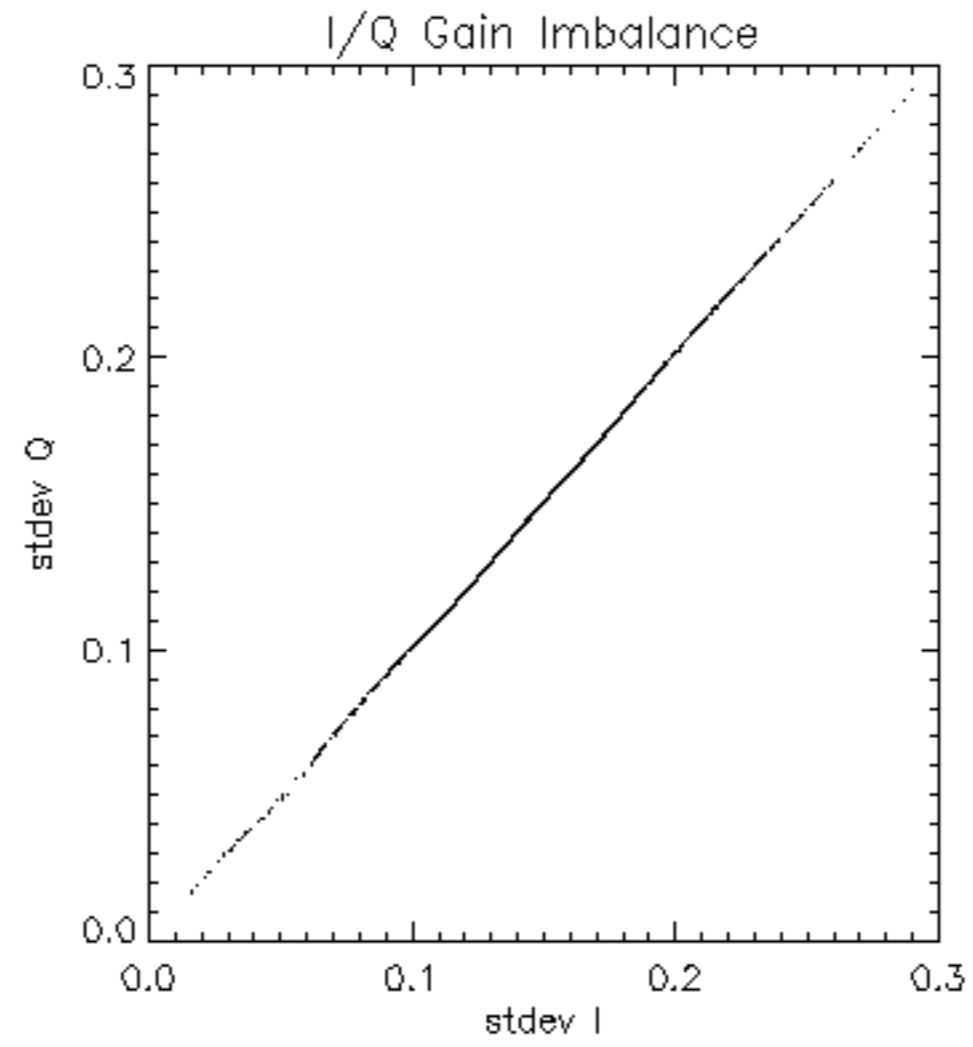


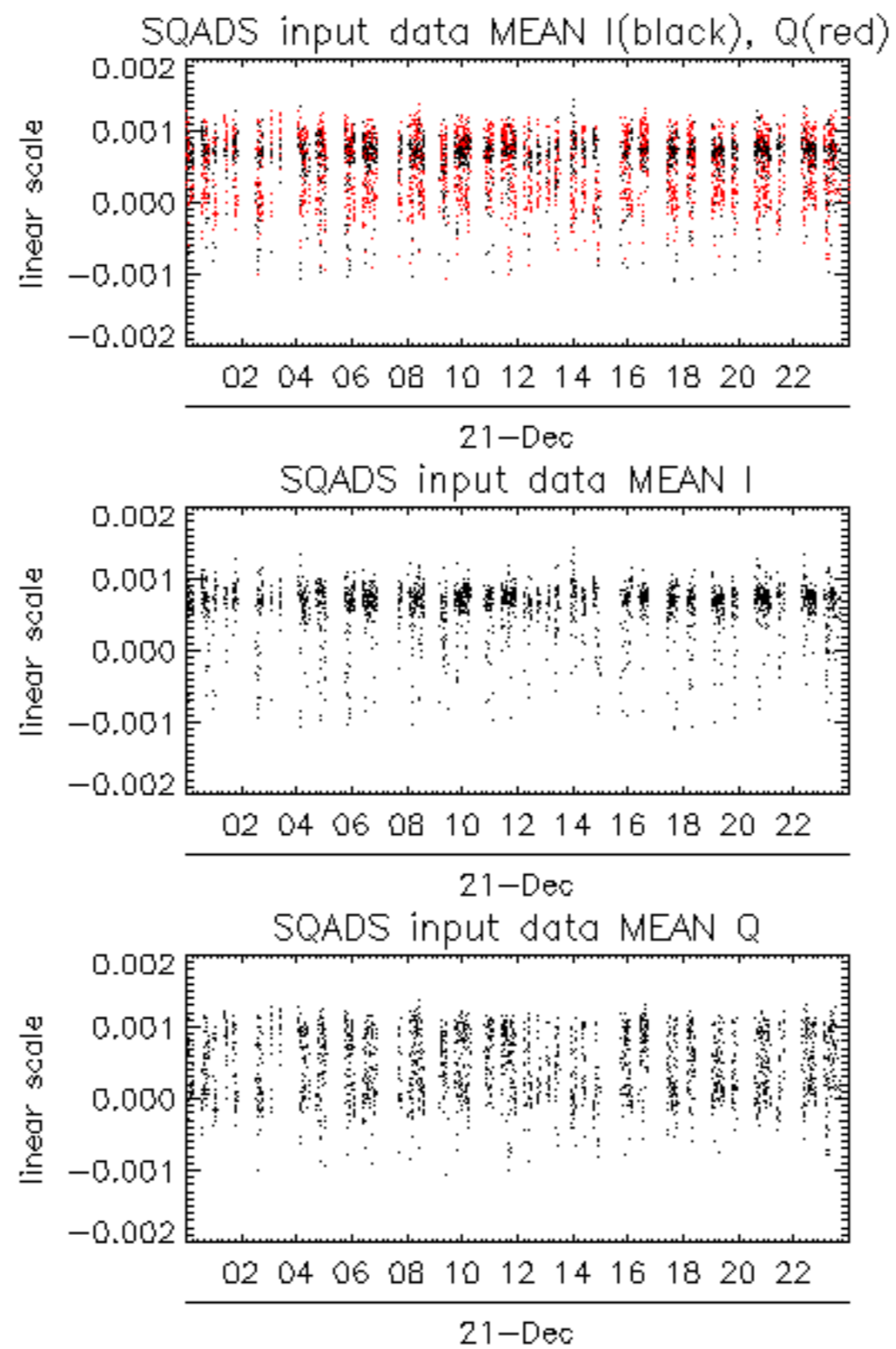




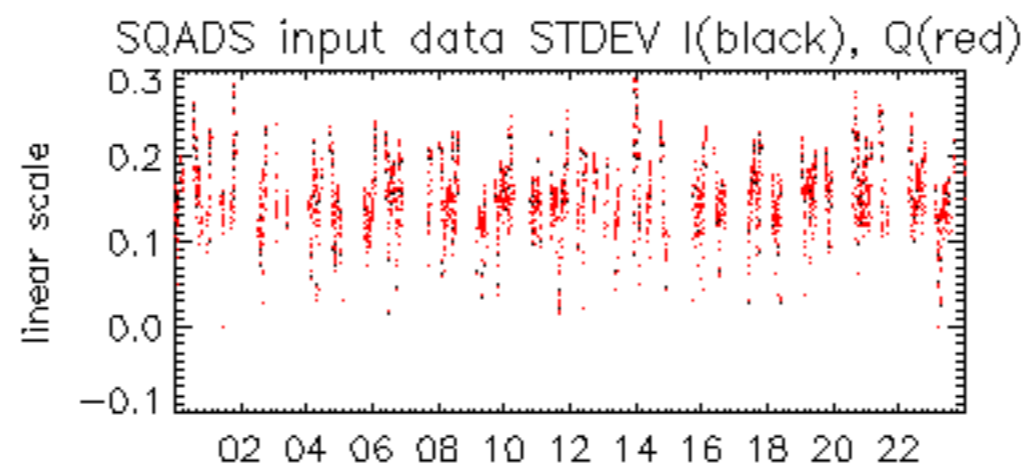




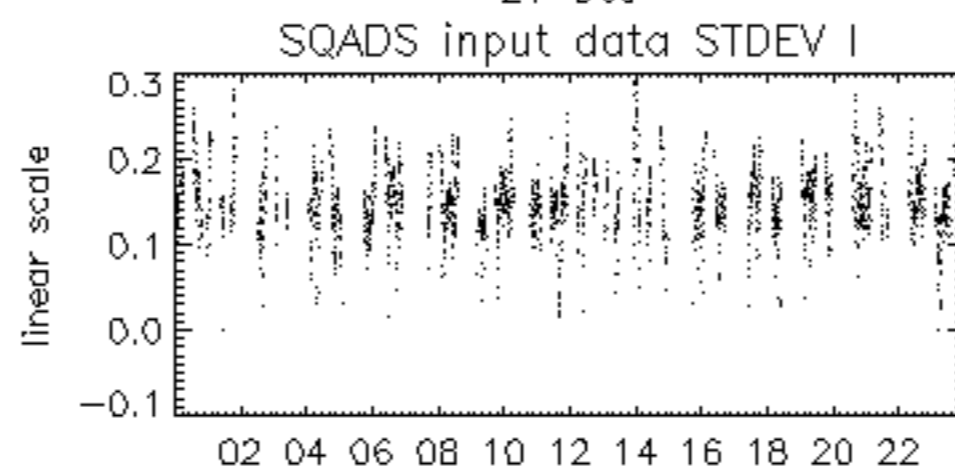




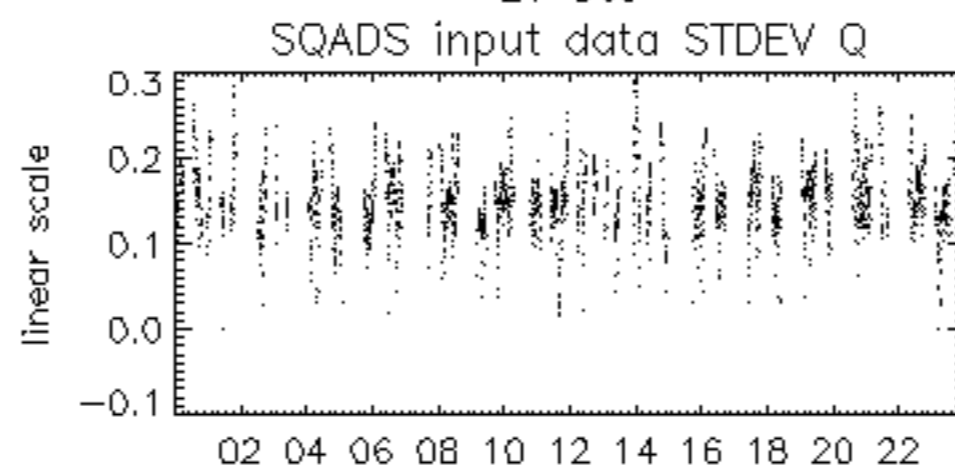




21-Dec



21-Dec



21-Dec



















