

0. MIPAS Daily Report for level 0 products

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0.1 General Info

This report contains a daily analysis on parameters extracted from MIPAS level 0 data (The MIP_NL__0P product).

0.1.1 Report summary

The table below shows general characteristics of the data that are included into this report.

| Item | Value |
|--|--|
| Report version | v1.6 08-11-2010 |
| Time of report generation | 17APR2011 09:54:15 |
| Data source version | KSPT_L0/4504-N |
| Processing scope for products | 12APR2011 00:00:00 to 13APR2011 00:00:00 |
| Start time of first product within scope | 12APR2011 01:22:36 |
| Stop time of last product within scope | 13APR2011 00:47:12 |
| Total number of level 0 products | 15 |
| Number of level 0 products with errors | 3 |

0.1.2 Product Quality Indicators per product

The following table shows a summary for each product used in this report.

| # | Product name | Start time | Stop time | Prod err | ISP err sign | ISP miss sign | ISP disc sign | rs sign |
|----|--|--------------------|--------------------|----------|--------------|---------------|---------------|---------|
| 0 | MIP_NL__OPNPDE20110412_012236_000101043101_00232_47660_3407.N1 | 12APR2011 01:22:36 | 12APR2011 04:11:01 | 0 | 0 | 0 | 0 | 0 |
| 1 | MIP_NL__OPNPDE20110412_025800_000043813101_00233_47661_3409.N1 | 12APR2011 02:58:00 | 12APR2011 04:11:01 | 0 | 0 | 0 | 0 | 0 |
| 2 | MIP_NL__OPNPDE20110412_041006_000063293101_00234_47662_3412.N1 | 12APR2011 04:10:06 | 12APR2011 05:55:36 | 0 | 0 | 0 | 0 | 0 |
| 3 | MIP_NL__OPNPDE20110412_055439_000062033101_00235_47663_3413.N1 | 12APR2011 05:54:39 | 12APR2011 07:38:03 | 0 | 0 | 0 | 0 | 0 |
| 4 | MIP_NL__OPNPDK20110412_073706_000040533101_00236_47664_4828.N1 | 12APR2011 07:37:06 | 12APR2011 08:44:39 | 0 | 0 | 0 | 0 | 0 |
| 5 | MIP_NL__OPNPDK20110412_084405_000061233101_00237_47665_4829.N1 | 12APR2011 08:44:05 | 12APR2011 10:26:08 | 1 | 1 | 1 | 0 | 0 |
| 6 | MIP_NL__OPNPDK20110412_102526_000059793101_00238_47666_4830.N1 | 12APR2011 10:25:26 | 12APR2011 12:05:05 | 0 | 0 | 0 | 0 | 0 |
| 7 | MIP_NL__OPNPDK20110412_120434_000059063101_00239_47667_4831.N1 | 12APR2011 12:04:34 | 12APR2011 13:43:00 | 0 | 0 | 0 | 0 | 0 |
| 8 | MIP_NL__OPNPDK20110412_134228_000059393101_00240_47668_4832.N1 | 12APR2011 13:42:28 | 12APR2011 15:21:27 | 0 | 0 | 0 | 0 | 0 |
| 9 | MIP_NL__OPNPDK20110412_152016_000059333101_00241_47669_4833.N1 | 12APR2011 15:20:16 | 12APR2011 16:59:09 | 0 | 0 | 0 | 0 | 0 |
| 10 | MIP_NL__OPNPDK20110412_165813_000058263101_00242_47670_4834.N1 | 12APR2011 16:58:13 | 12APR2011 18:35:19 | 0 | 0 | 0 | 0 | 0 |
| 11 | MIP_NL__OPNPDK20110412_183418_000060733101_00243_47671_4835.N1 | 12APR2011 18:34:18 | 12APR2011 20:15:31 | 1 | 1 | 0 | 0 | 0 |
| 12 | MIP_NL__OPNPDE20110412_201357_000043283101_00244_47672_3414.N1 | 12APR2011 20:13:57 | 12APR2011 21:26:05 | 0 | 0 | 0 | 0 | 0 |
| 13 | MIP_NL__OPNPDE20110412_212507_000060983101_00244_47672_3415.N1 | 12APR2011 21:25:07 | 12APR2011 23:06:45 | 0 | 0 | 0 | 0 | 0 |
| 14 | MIP_NL__OPNPDE20110412_230540_000060923101_00245_47673_3416.N1 | 12APR2011 23:05:40 | 13APR2011 00:47:12 | 1 | 1 | 0 | 0 | 0 |

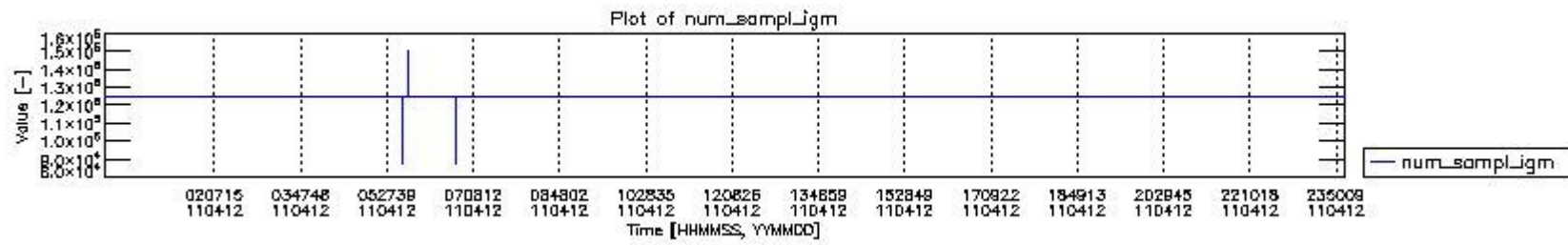
0.2 Instrument Operational Performance Parameters

The following plots give an overview of various instrument parameters for this day. The instrument parameters are part of the auxiliary data field within the source packets of the MIP_NL__0P product. The auxiliary data is normally included twice per interferogram. Note that only the first packet is currently included in monitoring.

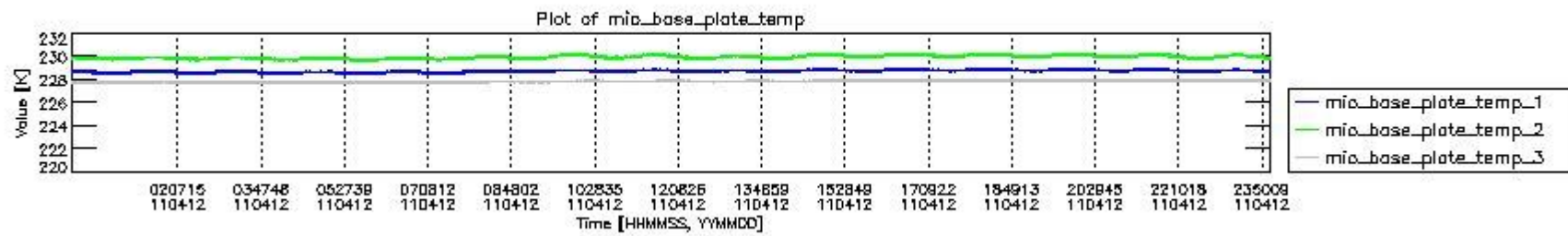
The following table shows the counts of various interferogram number of samples

| Number of igm samples | Count [#] | Count [%] |
|-----------------------|-----------|--------------|
| 87352 | 1 | 0.0024025756 |
| 87500 | 1 | 0.0024025756 |
| 96010 | 1 | 0.0024025756 |

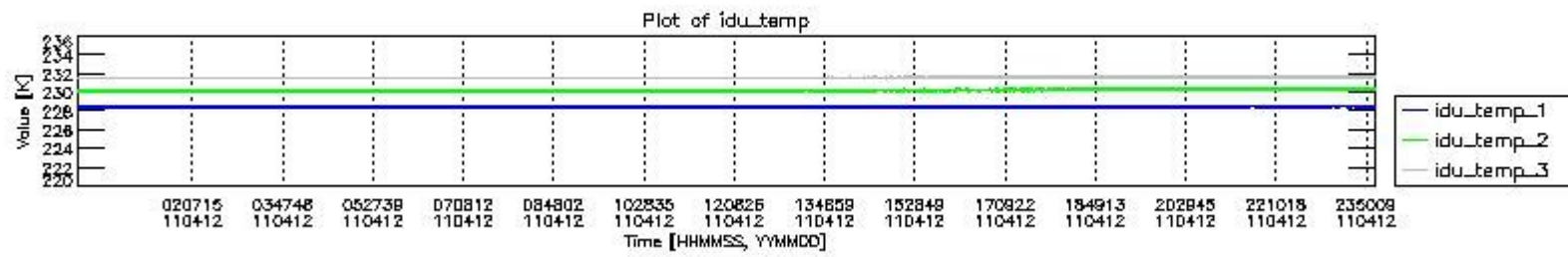
| | | |
|--------|-------|--------------|
| 96084 | 1 | 0.0024025756 |
| 116142 | 1 | 0.0024025756 |
| 116216 | 1 | 0.0024025756 |
| 124800 | 38664 | 92.893181 |
| 124803 | 2949 | 7.0851953 |
| 127456 | 1 | 0.0024025756 |
| 147588 | 1 | 0.0024025756 |
| 150244 | 1 | 0.0024025756 |



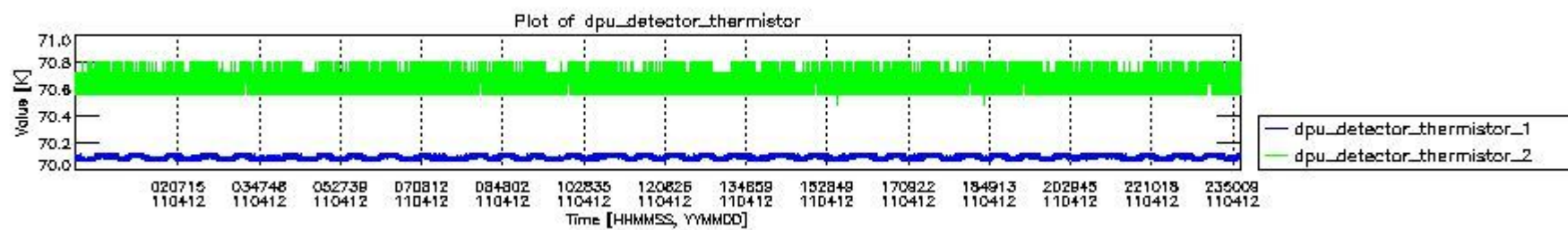
mipas_daily_report_level0_KSPT_L0_4504_N_20110412_0.PNG



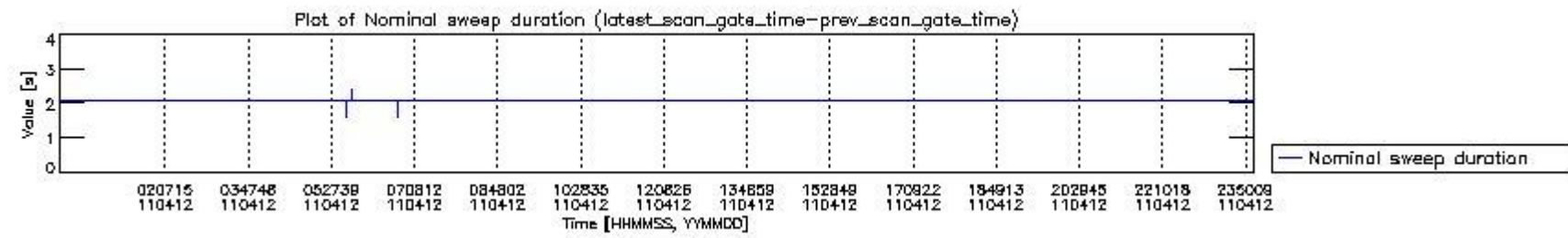
mipas_daily_report_level0_KSPT_L0_4504_N_20110412_1.PNG



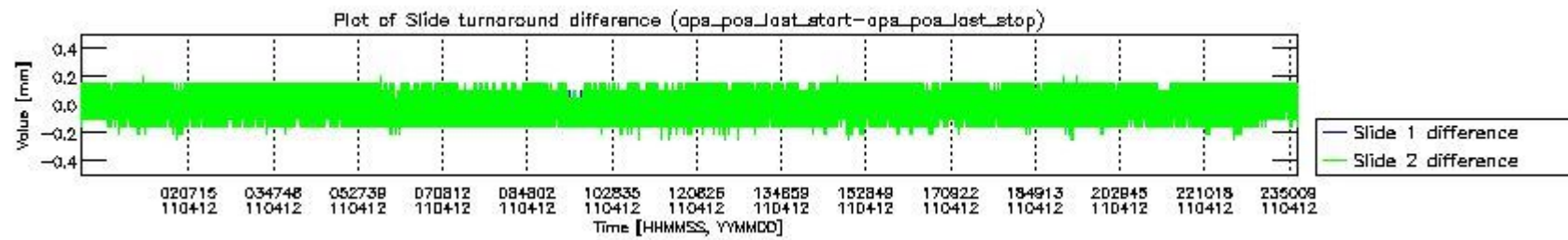
mipas_daily_report_level0_KSPT_L0_4504_N_20110412_2.PNG



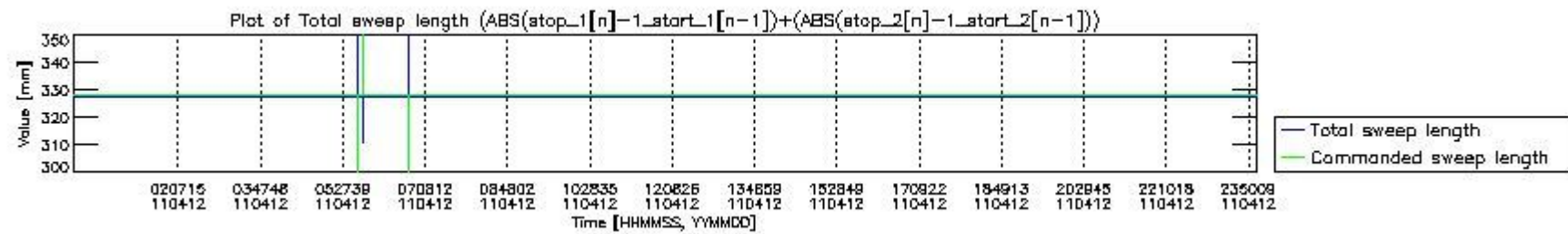
mipas_daily_report_level0_KSPT_L0_4504_N_20110412_3.PNG



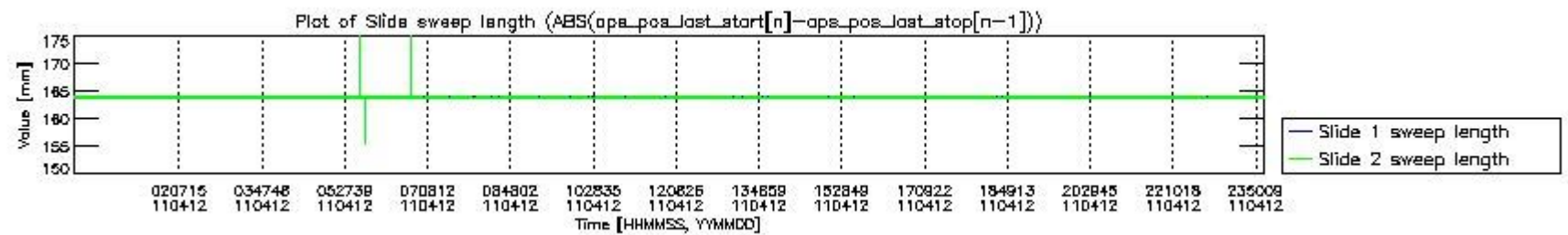
mipas_daily_report_level0_KSPT_L0_4504_N_20110412_4.PNG



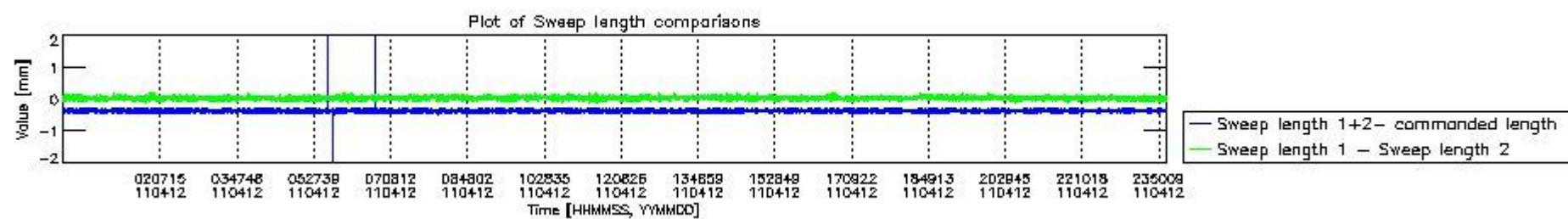
mipas_daily_report_level0_KSPT_L0_4504_N_20110412_5.PNG



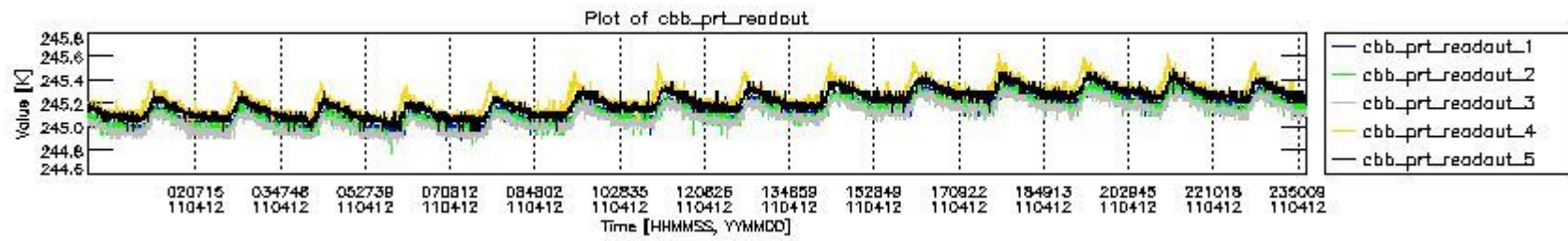
mipas_daily_report_level0_KSPT_L0_4504_N_20110412_6.PNG



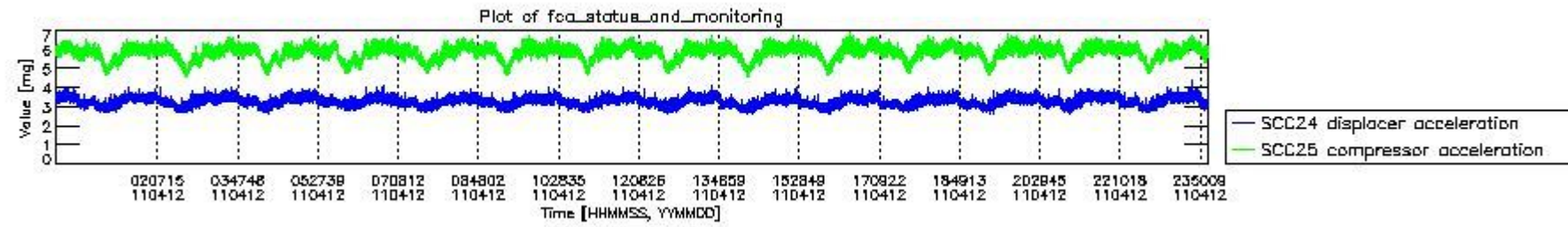
mipas_daily_report_level0_KSPT_L0_4504_N_20110412_7.PNG



mipas_daily_report_level0_KSPT_L0_4504_N_20110412_8.PNG



mipas_daily_report_level0_KSPT_L0_4504_N_20110412_9.PNG

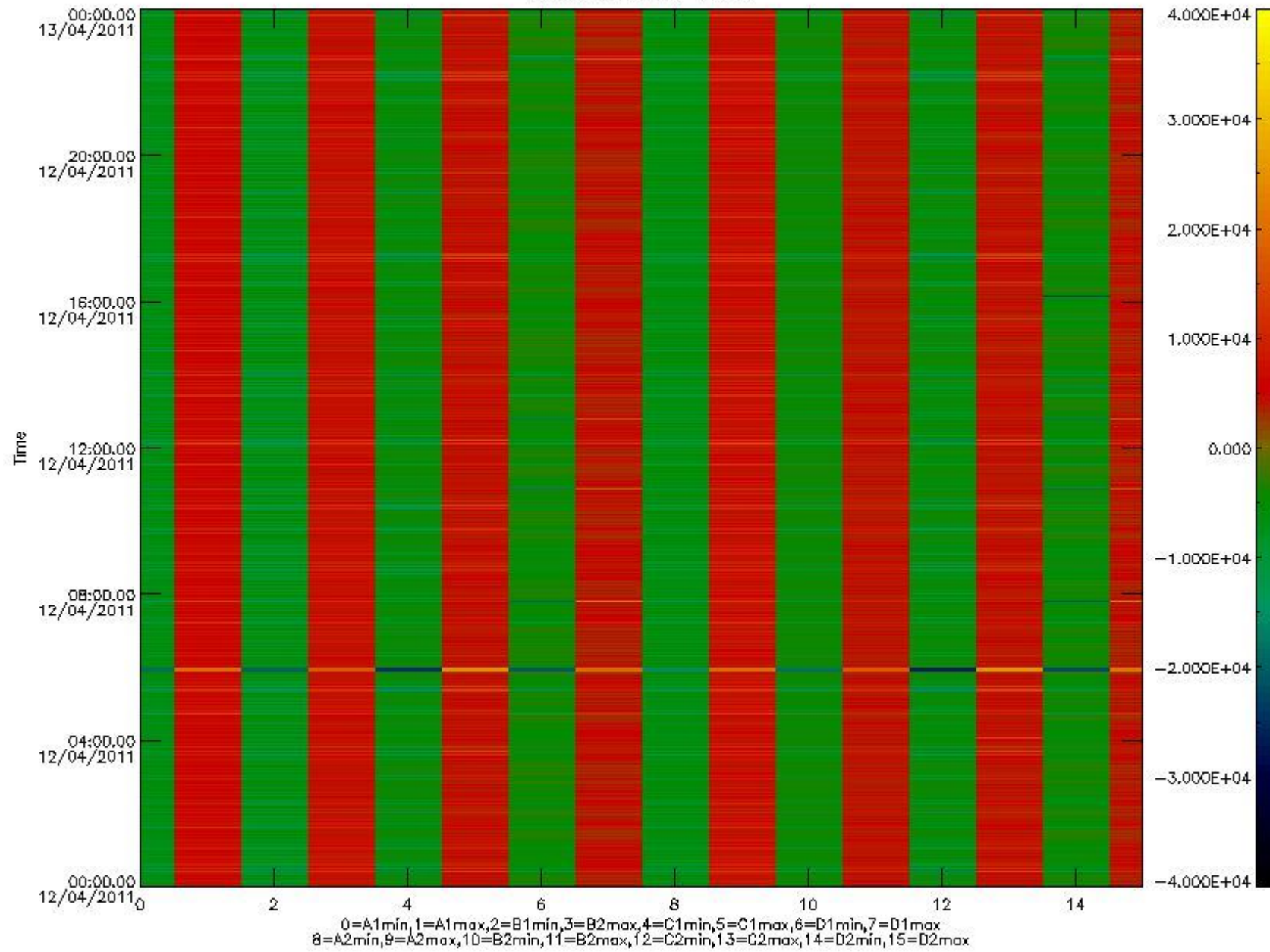


mipas_daily_report_level0_KSPT_L0_4504_N_20110412_10.PNG

The following table shows channel statistics for all channels for this day.

| Channel | Min | Max | ADC |
|---------|--------|-------|-------|
| A1 | -18720 | 20127 | 16bit |
| B1 | -20878 | 17773 | 16bit |
| C1 | -25032 | 24895 | 16bit |
| D1 | -32768 | 32767 | 16bit |
| A2 | -16134 | 20205 | 16bit |
| B2 | -19262 | 18591 | 16bit |
| C2 | -26035 | 25621 | 16bit |
| D2 | -32768 | 32767 | 16bit |

MIPNLOP_MIPSOUPAC_aux_fields_1gm_cal, channel statistics plot
Colour indicates value.



mipas_daily_report_level0_KSPT_L0_4504_N_20110412_11.PNG

0.3 ADF monitoring

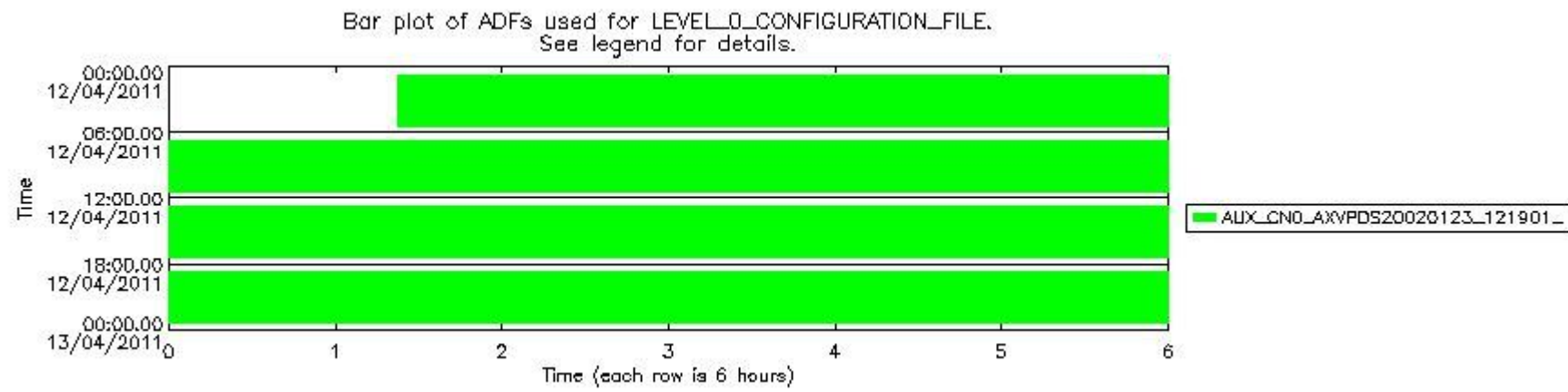
The use of ADFs is shown in two ways:

1. By means of two tables that can be used to find the ADF used for a specific product.
2. By means of plots that show changes in ADF using colours.

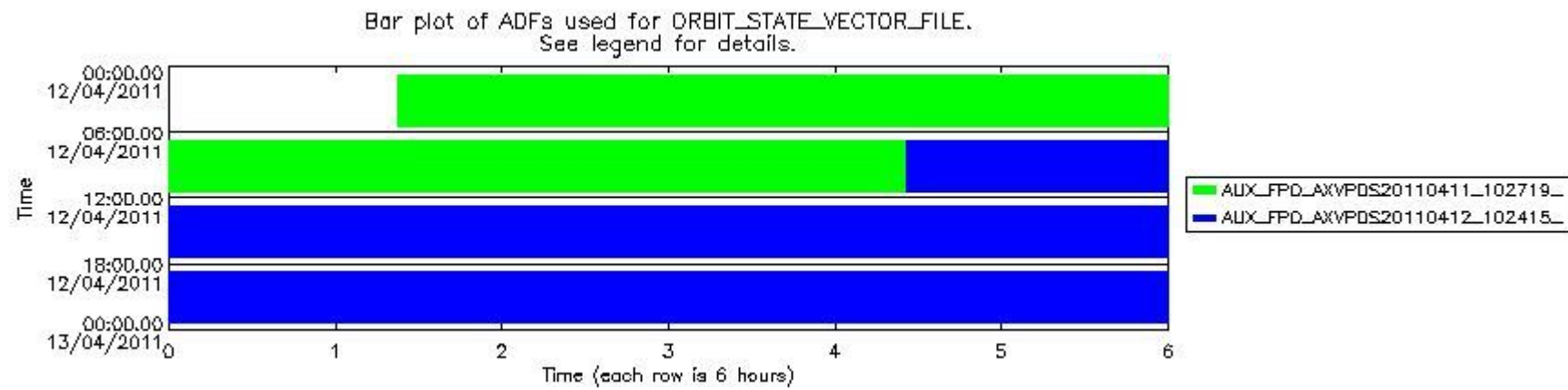
| Number | ADF |
|--------|---|
| 0 | AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000 |
| 1 | AUX_FPO_AXVPDS20110411_102719_20110410_193101_20110420_200436 |
| 2 | AUX_FPO_AXVPDS20110412_102415_20110411_185417_20110421_210806 |

| Number | Product name | #CN0 | #FPO |
|--------|--------------|------|------|
|--------|--------------|------|------|

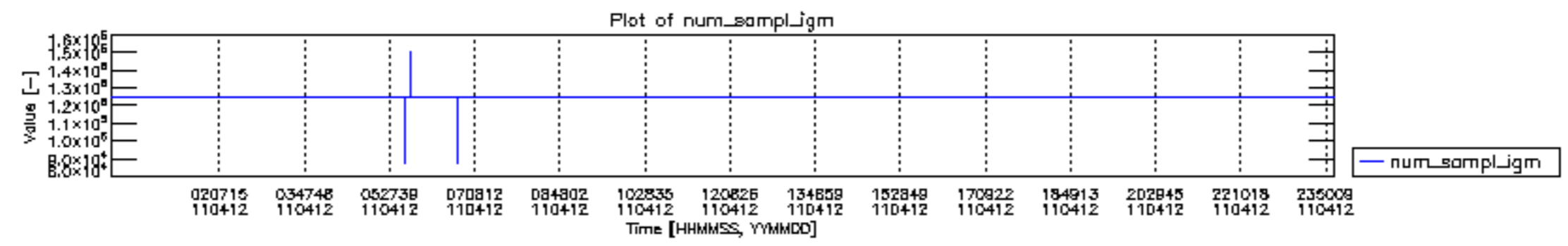
| | | | |
|----|--|---|---|
| 0 | MIP_NL__0PNPDE20110412_012236_000101043101_00232_47660_3407.N1 | 0 | 1 |
| 1 | MIP_NL__0PNPDE20110412_025800_000043813101_00233_47661_3409.N1 | 0 | 1 |
| 2 | MIP_NL__0PNPDE20110412_041006_000063293101_00234_47662_3412.N1 | 0 | 1 |
| 3 | MIP_NL__0PNPDE20110412_055439_000062033101_00235_47663_3413.N1 | 0 | 1 |
| 4 | MIP_NL__0PNPDK20110412_073706_000040533101_00236_47664_4828.N1 | 0 | 1 |
| 5 | MIP_NL__0PNPDK20110412_084405_000061233101_00237_47665_4829.N1 | 0 | 1 |
| 6 | MIP_NL__0PNPDK20110412_102526_000059793101_00238_47666_4830.N1 | 0 | 2 |
| 7 | MIP_NL__0PNPDK20110412_120434_000059063101_00239_47667_4831.N1 | 0 | 2 |
| 8 | MIP_NL__0PNPDK20110412_134228_000059393101_00240_47668_4832.N1 | 0 | 2 |
| 9 | MIP_NL__0PNPDK20110412_152016_000059333101_00241_47669_4833.N1 | 0 | 2 |
| 10 | MIP_NL__0PNPDK20110412_165813_000058263101_00242_47670_4834.N1 | 0 | 2 |
| 11 | MIP_NL__0PNPDK20110412_183418_000060733101_00243_47671_4835.N1 | 0 | 2 |
| 12 | MIP_NL__0PNPDE20110412_201357_000043283101_00244_47672_3414.N1 | 0 | 2 |
| 13 | MIP_NL__0PNPDE20110412_212507_000060983101_00244_47672_3415.N1 | 0 | 2 |
| 14 | MIP_NL__0PNPDE20110412_230540_000060923101_00245_47673_3416.N1 | 0 | 2 |

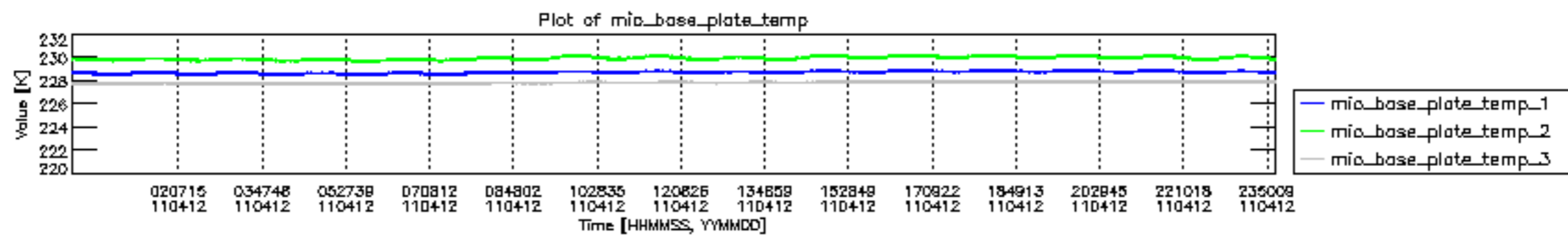


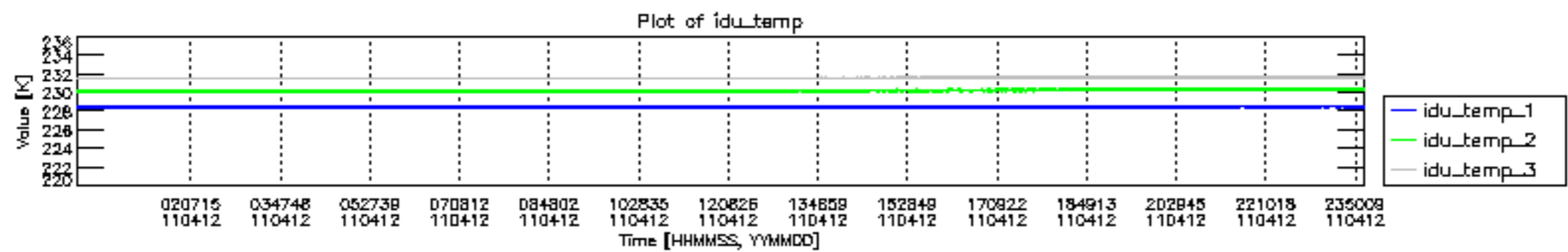
mipas_daily_report_level0_KSPT_L0_4504_N_20110412_12.PNG

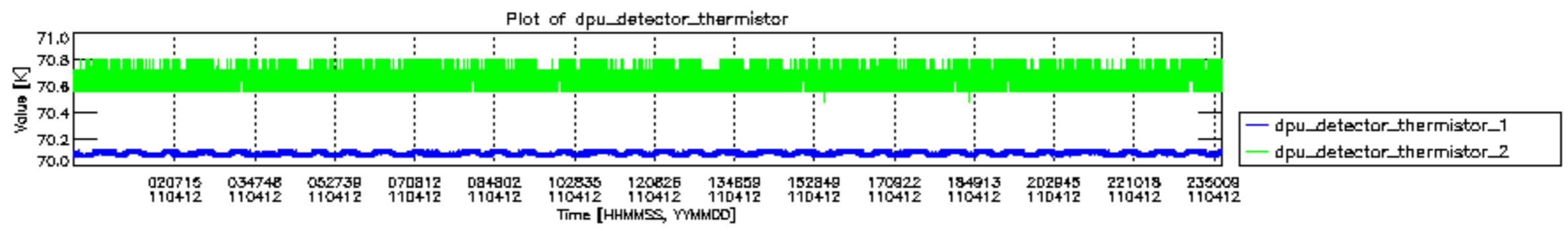


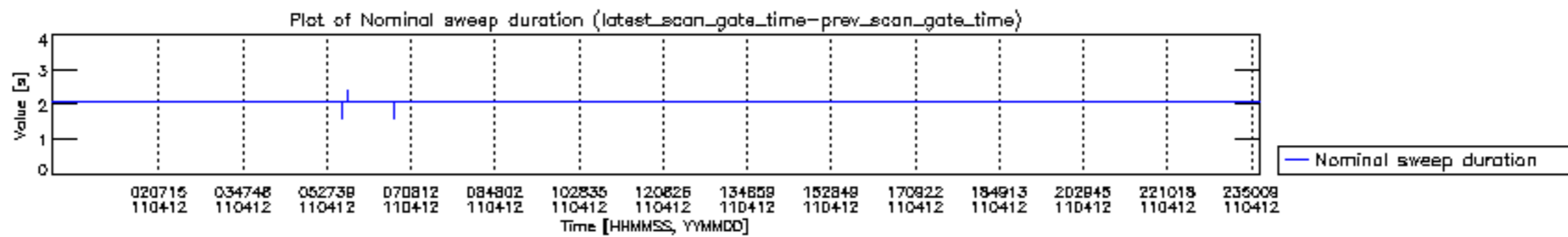
mipas_daily_report_level0_KSPT_L0_4504_N_20110412_13.PNG

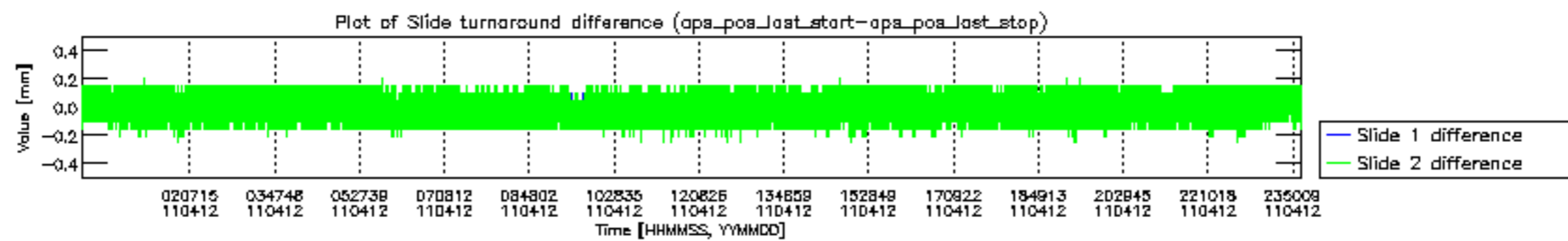


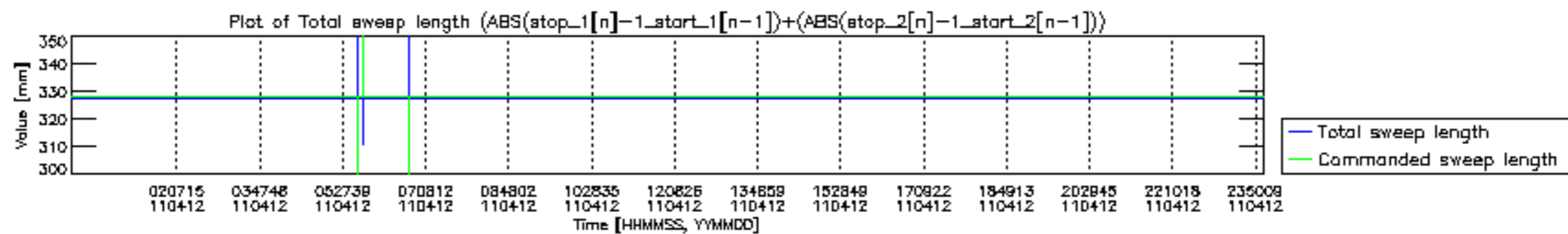


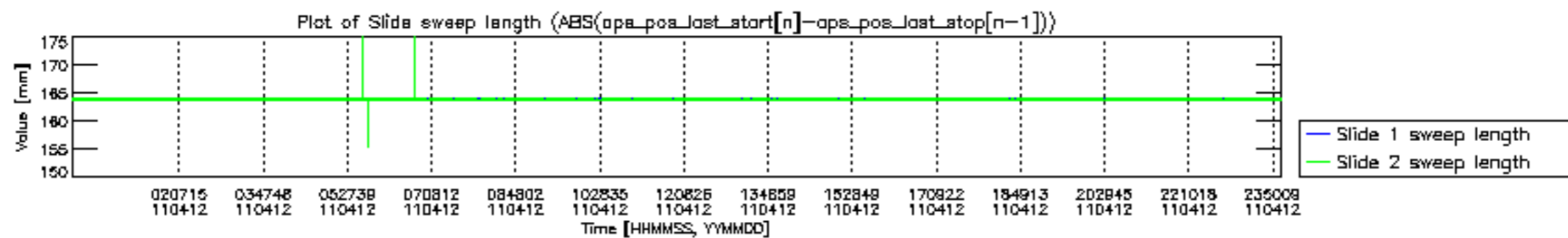


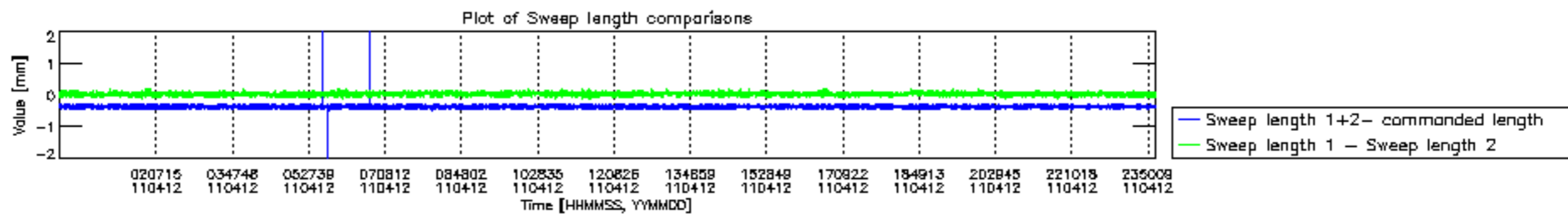


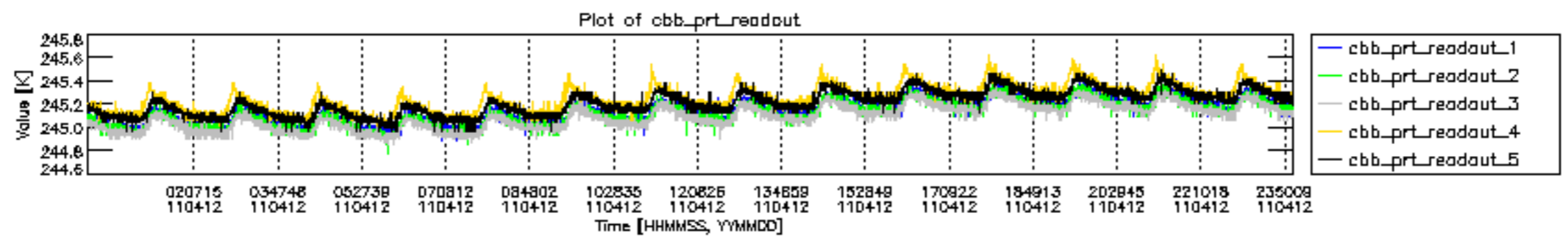


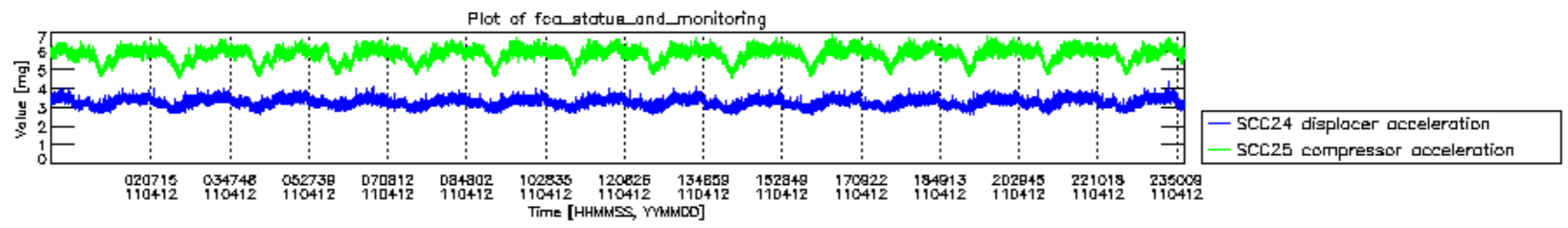












MIPNLOP_MIPSOUPAC_aux_fields_igm_cal, channel statistics plot
 Colour indicates value.

