

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 | 05JUN2011 05:26:10 |
| Data source version | KSPT_L0/4504-N |
| Processing scope for products | 31MAY2011 00:00:00 to 01JUN2011 00:00:00 |
| Start time of first product within scope | 31MAY2011 01:26:19 |
| Stop time of last product within scope | 01JUN2011 00:51:03 |
| Total number of level 0 products | 14 |
| Number of level 0 products with errors | 0 |

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__OPNPDE20110531_012619_000103603103_00074_48364_8821.N1 | 31MAY2011 01:26:19 | 31MAY2011 04:18:59 | 0 | 0 | 0 | 0 | 0 |
| 1 | MIP_NL__OPNPDE20110531_041825_000061563103_00076_48366_8824.N1 | 31MAY2011 04:18:25 | 31MAY2011 06:01:02 | 0 | 0 | 0 | 0 | 0 |
| 2 | MIP_NL__OPNPDK20110531_060024_000041003103_00077_48367_5291.N1 | 31MAY2011 06:00:24 | 31MAY2011 07:08:44 | 0 | 0 | 0 | 0 | 0 |
| 3 | MIP_NL__OPNPDK20110531_084946_000059883103_00079_48369_5293.N1 | 31MAY2011 08:49:46 | 31MAY2011 10:29:35 | 0 | 0 | 0 | 0 | 0 |
| 4 | MIP_NL__OPNPDK20110531_102853_000060043103_00080_48370_5294.N1 | 31MAY2011 10:28:53 | 31MAY2011 12:08:57 | 0 | 0 | 0 | 0 | 0 |
| 5 | MIP_NL__OPNPDK20110531_120821_000059373103_00081_48371_5295.N1 | 31MAY2011 12:08:21 | 31MAY2011 13:47:18 | 0 | 0 | 0 | 0 | 0 |
| 6 | MIP_NL__OPNPDK20110531_134632_000058873103_00082_48372_5296.N1 | 31MAY2011 13:46:32 | 31MAY2011 15:24:39 | 0 | 0 | 0 | 0 | 0 |
| 7 | MIP_NL__OPNPDK20110531_152404_000048613103_00083_48373_5297.N1 | 31MAY2011 15:24:04 | 31MAY2011 16:45:05 | 0 | 0 | 0 | 0 | 0 |
| 8 | MIP_NL__OPNPDK20110531_171214_000051803103_00084_48374_5298.N1 | 31MAY2011 17:12:14 | 31MAY2011 18:38:35 | 0 | 0 | 0 | 0 | 0 |
| 9 | MIP_NL__OPNPDK20110531_183740_000052393103_00085_48375_5299.N1 | 31MAY2011 18:37:40 | 31MAY2011 20:05:00 | 0 | 0 | 0 | 0 | 0 |
| 10 | MIP_NL__OPNPDK20110531_200500_000008133103_00086_48376_5300.N1 | 31MAY2011 20:05:00 | 31MAY2011 20:18:32 | 0 | 0 | 0 | 0 | 0 |
| 11 | MIP_NL__OPNPDE20110531_201702_000044143103_00086_48376_8825.N1 | 31MAY2011 20:17:02 | 31MAY2011 21:30:37 | 0 | 0 | 0 | 0 | 0 |
| 12 | MIP_NL__OPNPDE20110531_212932_000061233103_00086_48376_8826.N1 | 31MAY2011 21:29:32 | 31MAY2011 23:11:35 | 0 | 0 | 0 | 0 | 0 |
| 13 | MIP_NL__OPNPDE20110531_231024_000060393103_00087_48377_8827.N1 | 31MAY2011 23:10:24 | 01JUN2011 00:51:03 | 0 | 0 | 0 | 0 | 0 |

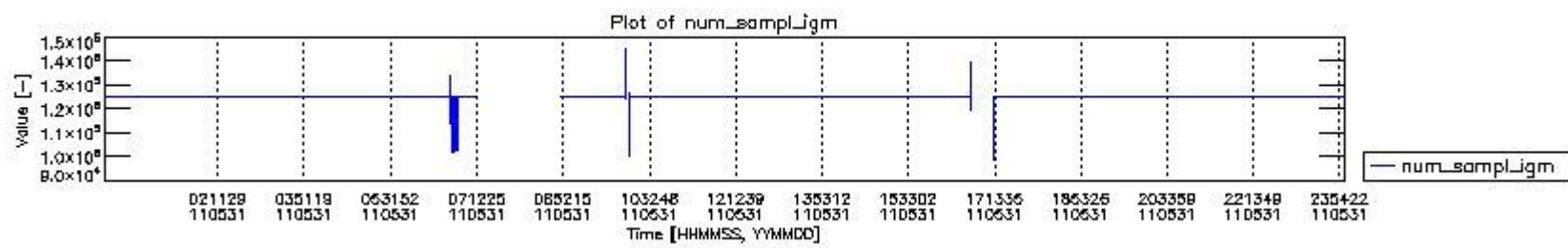
0.2 Instrument Operational Performance Parameters

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.

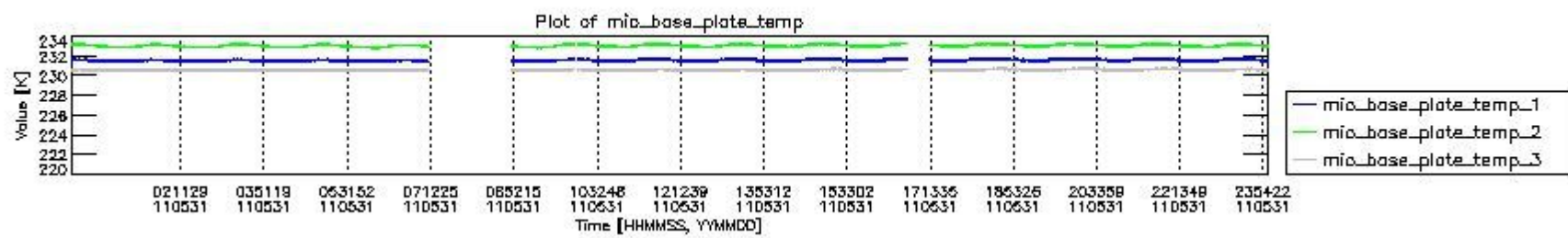
The following table shows the counts of various interferogram number of samples

| Number of igm samples | Count [#] | Count [%] |
|-----------------------|-----------|--------------|
| 98773 | 1 | 0.0026521681 |
| 100409 | 1 | 0.0026521681 |
| 102370 | 2 | 0.0053043363 |
| 102518 | 3 | 0.0079565044 |

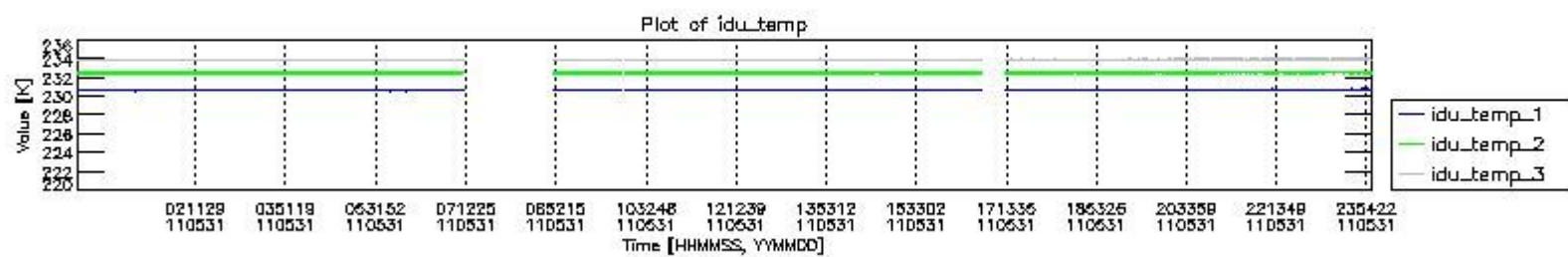
| | | |
|--------|-------|--------------|
| 102666 | 2 | 0.0053043363 |
| 102816 | 1 | 0.0026521681 |
| 103519 | 2 | 0.0053043363 |
| 103593 | 3 | 0.0079565044 |
| 103667 | 2 | 0.0053043363 |
| 103742 | 1 | 0.0026521681 |
| 113629 | 1 | 0.0026521681 |
| 119799 | 1 | 0.0026521681 |
| 122590 | 1 | 0.0026521681 |
| 123250 | 1 | 0.0026521681 |
| 123651 | 2 | 0.0053043363 |
| 123725 | 3 | 0.0079565044 |
| 123799 | 2 | 0.0053043363 |
| 123874 | 1 | 0.0026521681 |
| 124025 | 1 | 0.0026521681 |
| 124706 | 1 | 0.0026521681 |
| 124800 | 34792 | 92.274234 |
| 124803 | 2874 | 7.6223313 |
| 125661 | 1 | 0.0026521681 |
| 126522 | 1 | 0.0026521681 |
| 133761 | 1 | 0.0026521681 |
| 134930 | 1 | 0.0026521681 |
| 139931 | 1 | 0.0026521681 |
| 144744 | 1 | 0.0026521681 |
| 144838 | 1 | 0.0026521681 |



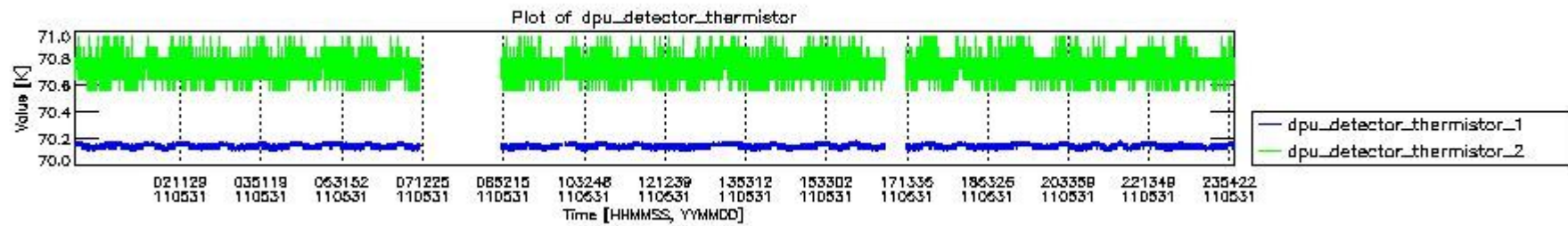
mipas_daily_report_level0_KSPT_L0_4504_N_20110531_0.PNG



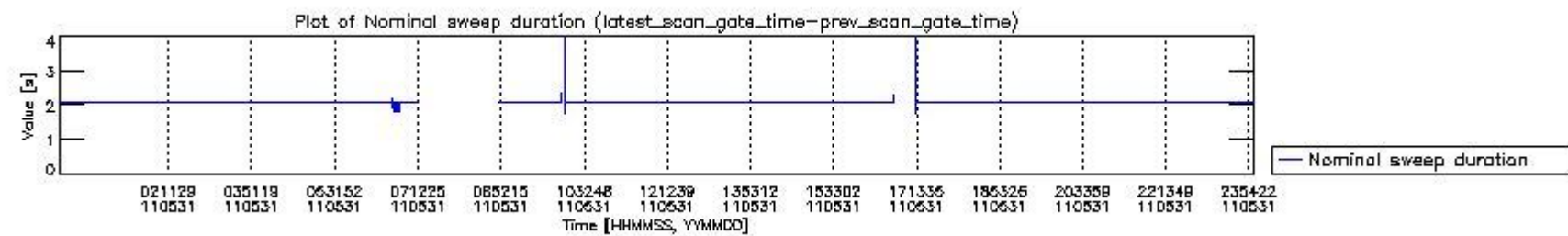
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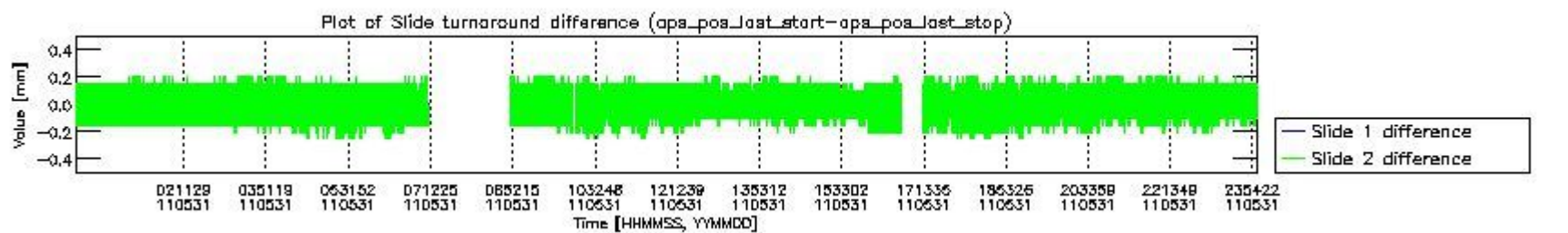
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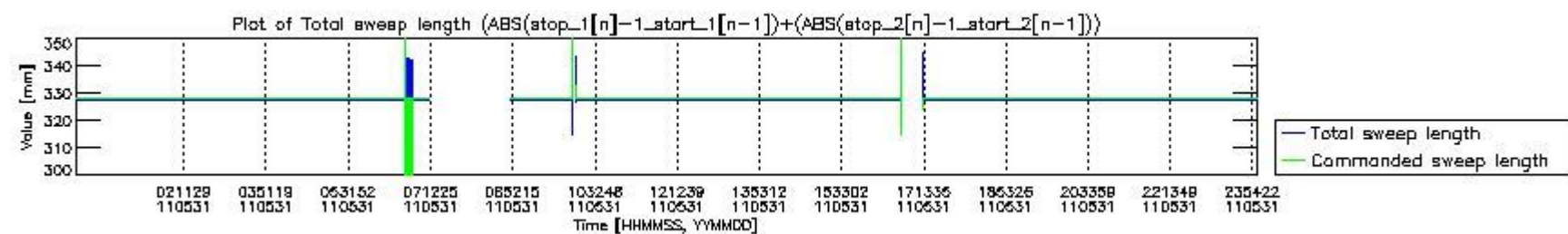
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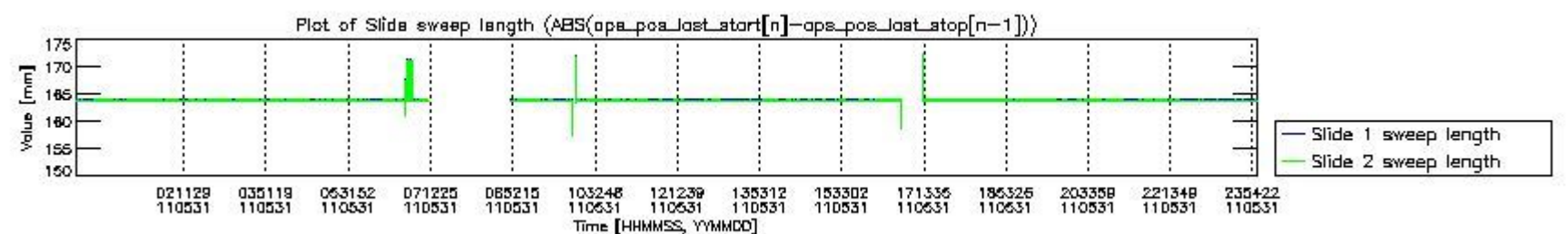
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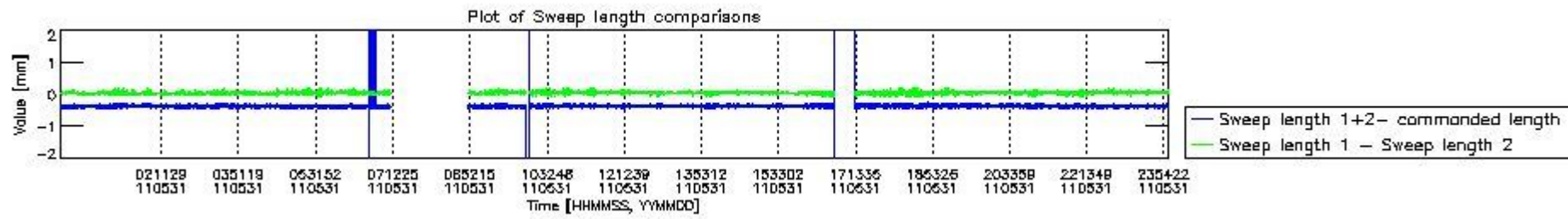
mipas_daily_report_level0_KSPT_L0_4504_N_20110531_5.PNG



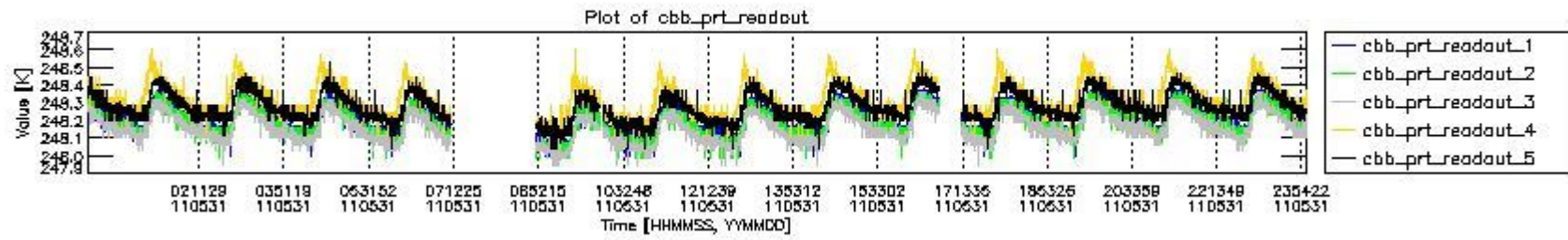
mipas_daily_report_level0_KSPT_L0_4504_N_20110531_6.PNG



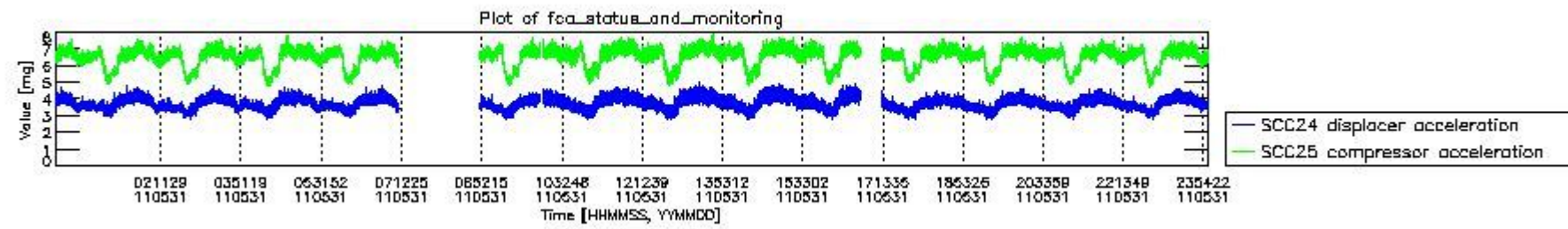
mipas_daily_report_level0_KSPT_L0_4504_N_20110531_7.PNG



mipas_daily_report_level0_KSPT_L0_4504_N_20110531_8.PNG



mipas_daily_report_level0_KSPT_L0_4504_N_20110531_9.PNG

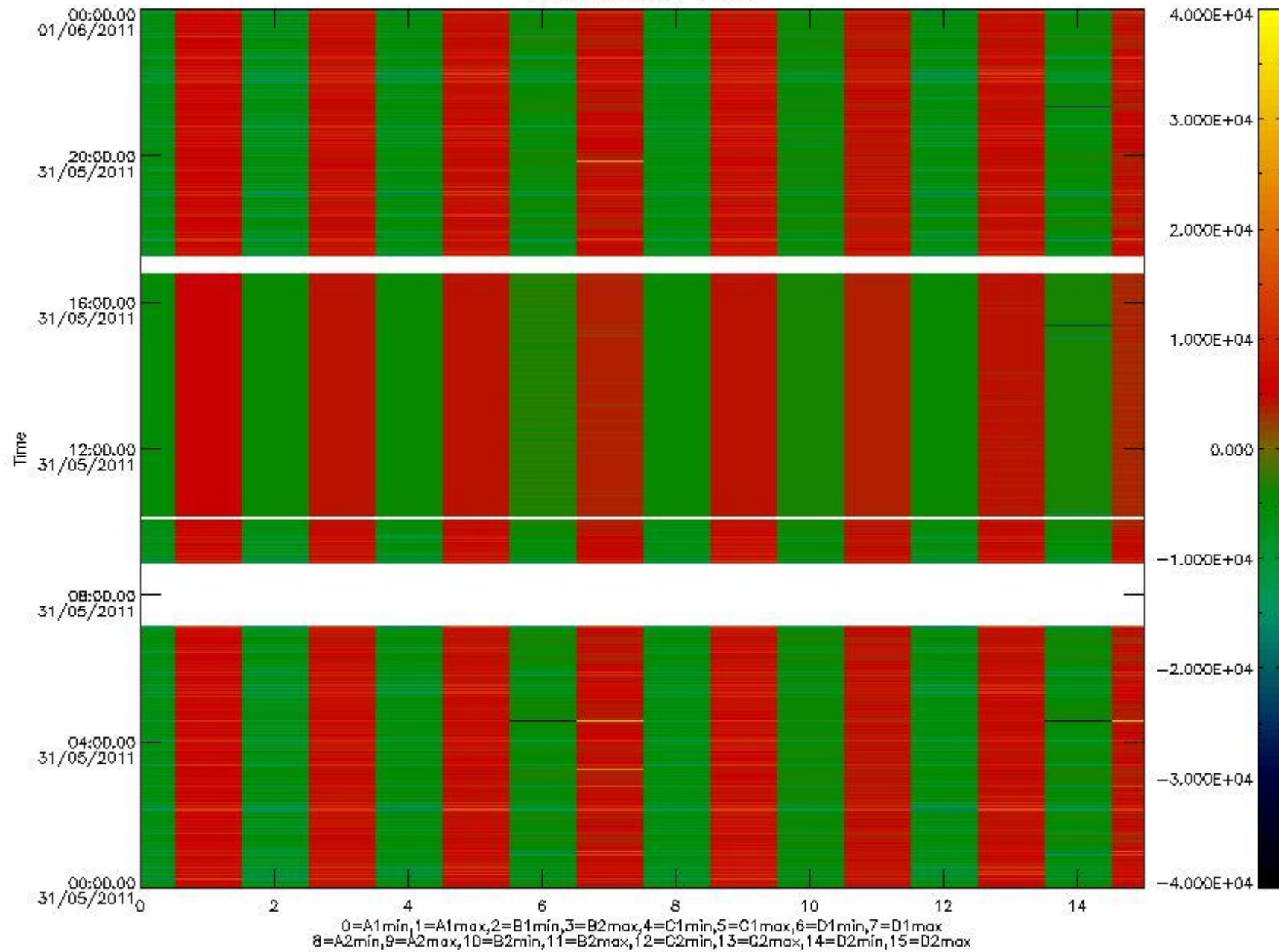


mipas_daily_report_level0_KSPT_L0_4504_N_20110531_10.PNG

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

| Channel | Min | Max | ADC |
|---------|--------|-------|-------|
| A1 | -19243 | 20476 | 16bit |
| B1 | -21928 | 18745 | 16bit |
| C1 | -28490 | 28394 | 16bit |
| D1 | -32768 | 32767 | 16bit |
| A2 | -16529 | 20589 | 16bit |
| B2 | -20435 | 19943 | 16bit |
| C2 | -29575 | 29230 | 16bit |
| D2 | -32768 | 32767 | 16bit |

MIPNLOP_MIPSOUPAC_aux_fields_igm_cal, channel statistics plot
Colour indicates value.



mipas_daily_report_level0_KSPT_L0_4504_N_20110531_11.PNG

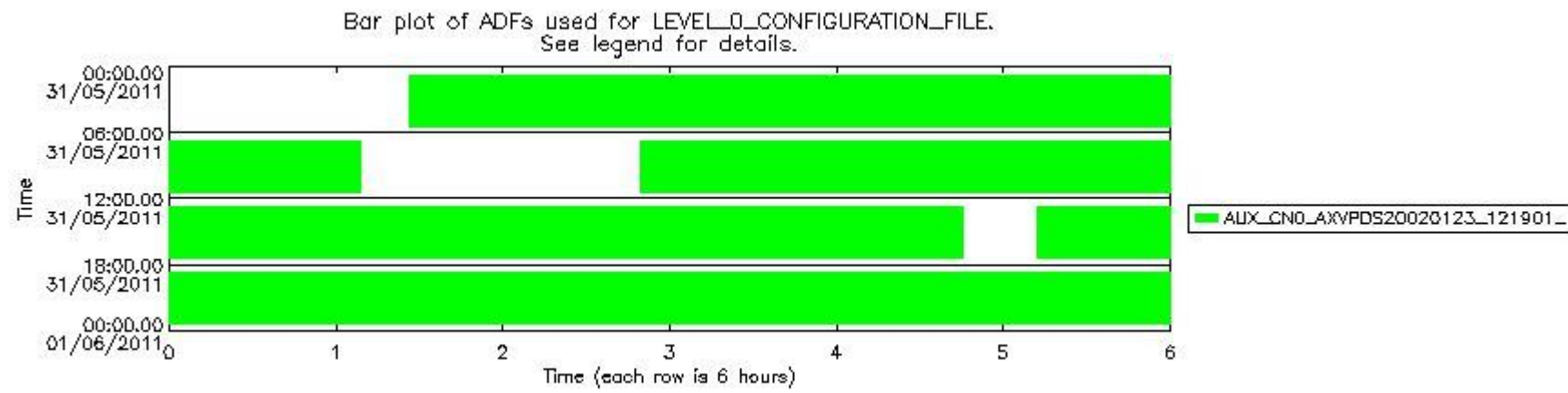
0.3 ADF monitoring

The use of ADFs is shown in two ways:

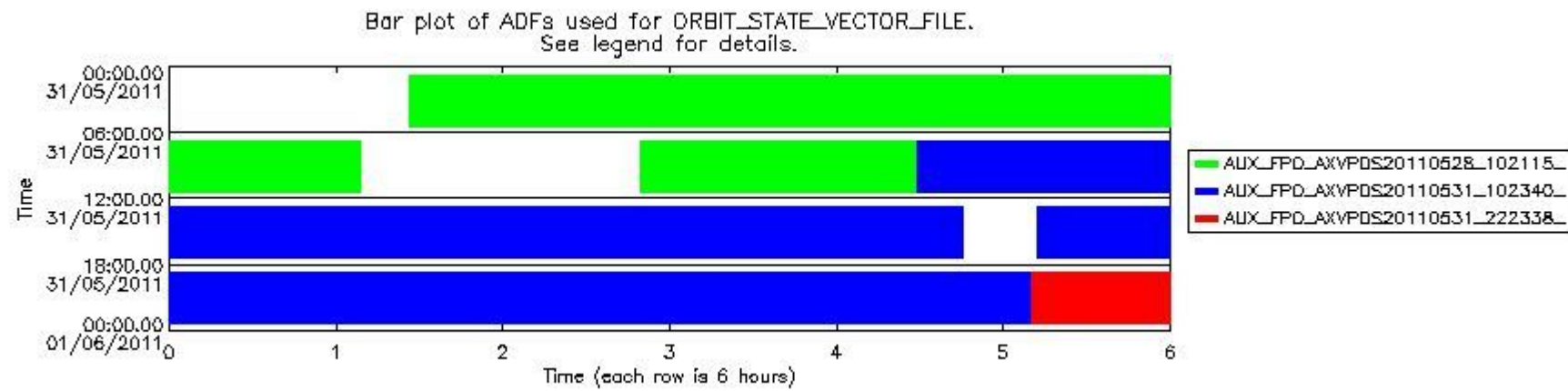
1. By means of two tables that can be used to find the ADF used for a specific product.
2. By means of plots that show changes in ADF using colours.

| Number | ADF |
|--------|---|
| 0 | AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000 |
| 1 | AUX_FPO_AXVPDS20110528_102115_20110527_190825_20110606_212212 |
| 2 | AUX_FPO_AXVPDS20110531_102340_20110530_185826_20110609_211212 |
| 3 | AUX_FPO_AXVPDS20110531_222338_20110531_114046_20110610_135434 |

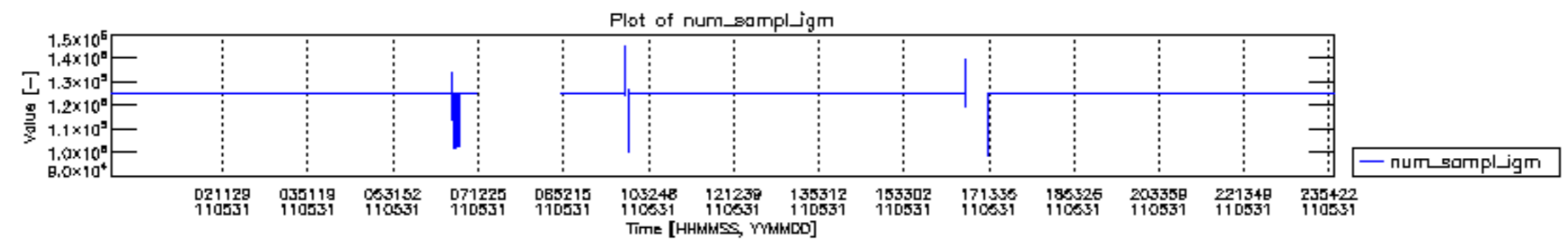
| Number | Product name | #CNO | #FPO |
|--------|--|------|------|
| 0 | MIP_NL__0PNPDE20110531_012619_000103603103_00074_48364_8821.N1 | 0 | 1 |
| 1 | MIP_NL__0PNPDE20110531_041825_000061563103_00076_48366_8824.N1 | 0 | 1 |
| 2 | MIP_NL__0PNPDK20110531_060024_000041003103_00077_48367_5291.N1 | 0 | 1 |
| 3 | MIP_NL__0PNPDK20110531_084946_000059883103_00079_48369_5293.N1 | 0 | 1 |
| 4 | MIP_NL__0PNPDK20110531_102853_000060043103_00080_48370_5294.N1 | 0 | 2 |
| 5 | MIP_NL__0PNPDK20110531_120821_000059373103_00081_48371_5295.N1 | 0 | 2 |
| 6 | MIP_NL__0PNPDK20110531_134632_000058873103_00082_48372_5296.N1 | 0 | 2 |
| 7 | MIP_NL__0PNPDK20110531_152404_000048613103_00083_48373_5297.N1 | 0 | 2 |
| 8 | MIP_NL__0PNPDK20110531_171214_000051803103_00084_48374_5298.N1 | 0 | 2 |
| 9 | MIP_NL__0PNPDK20110531_183740_000052393103_00085_48375_5299.N1 | 0 | 2 |
| 10 | MIP_NL__0PNPDK20110531_200500_000008133103_00086_48376_5300.N1 | 0 | 2 |
| 11 | MIP_NL__0PNPDE20110531_201702_000044143103_00086_48376_8825.N1 | 0 | 2 |
| 12 | MIP_NL__0PNPDE20110531_212932_000061233103_00086_48376_8826.N1 | 0 | 2 |
| 13 | MIP_NL__0PNPDE20110531_231024_000060393103_00087_48377_8827.N1 | 0 | 3 |

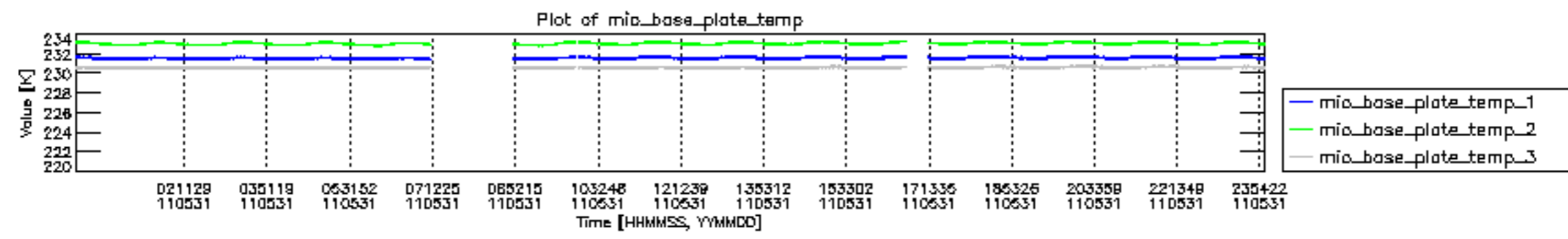


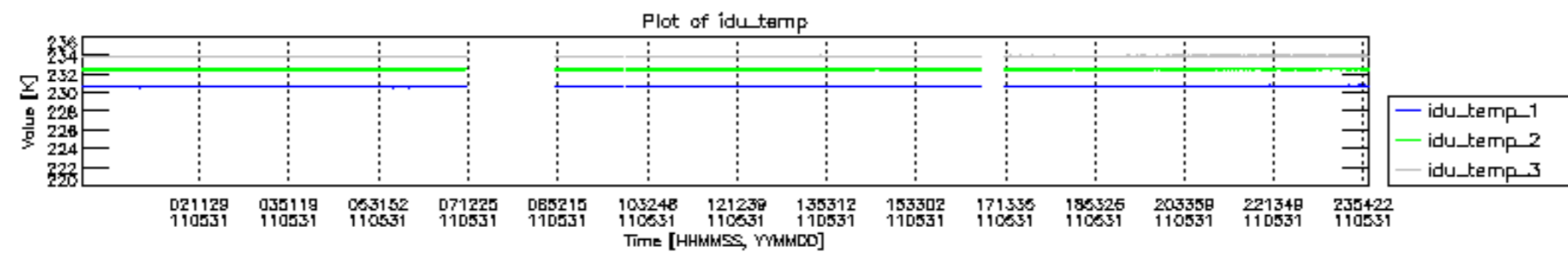
mipas_daily_report_level0_KSPT_L0_4504_N_20110531_12.PNG

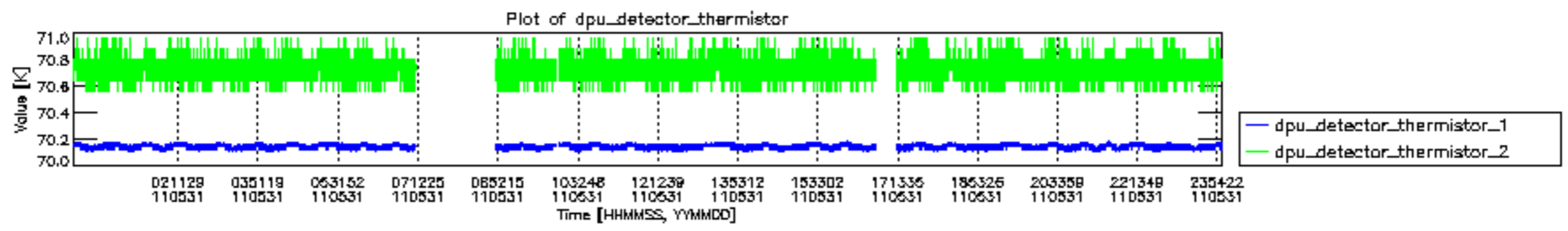


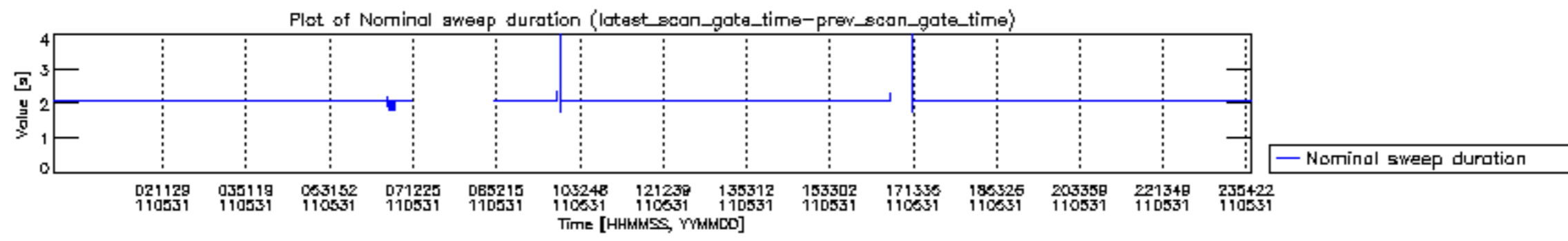
mipas_daily_report_level0_KSPT_L0_4504_N_20110531_13.PNG

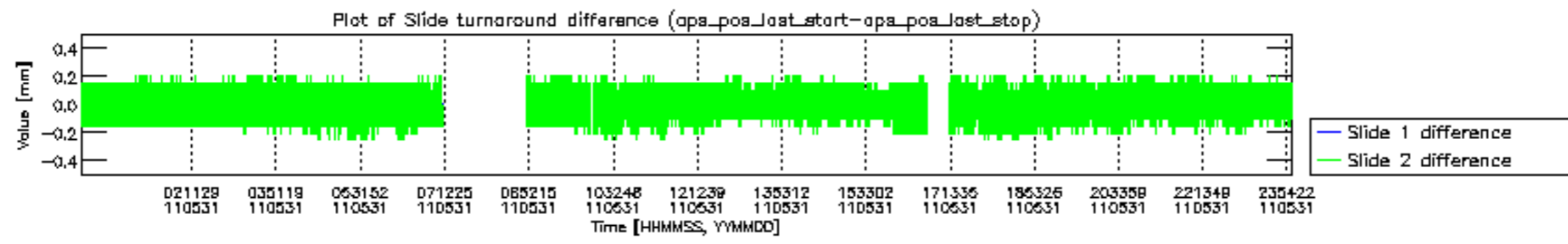


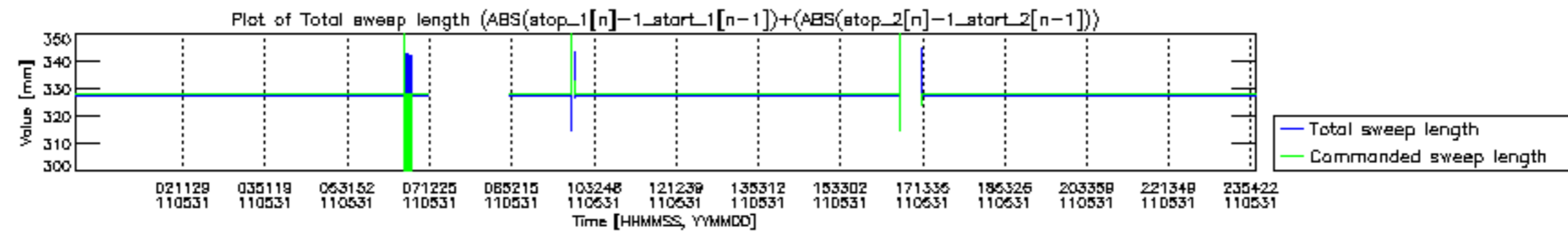


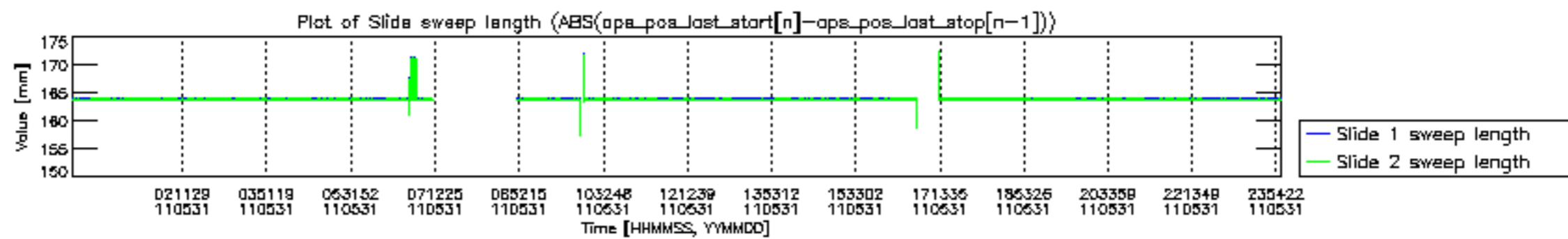


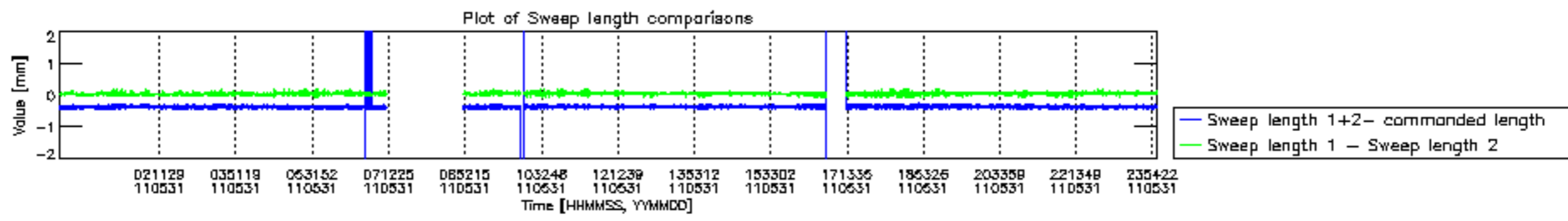


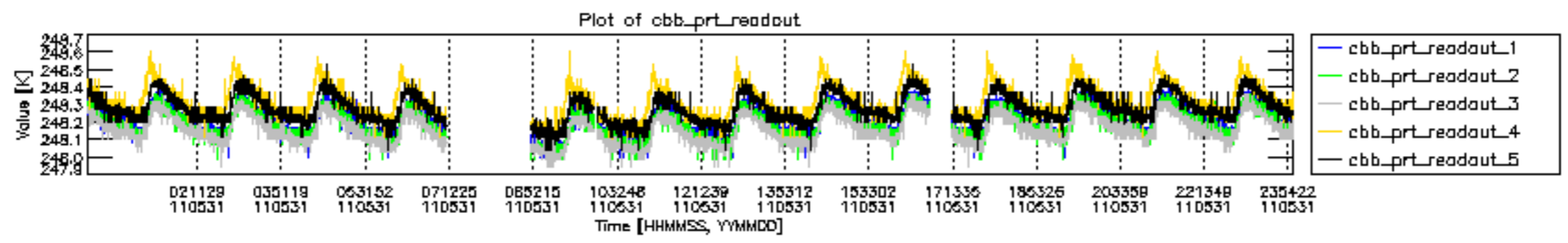


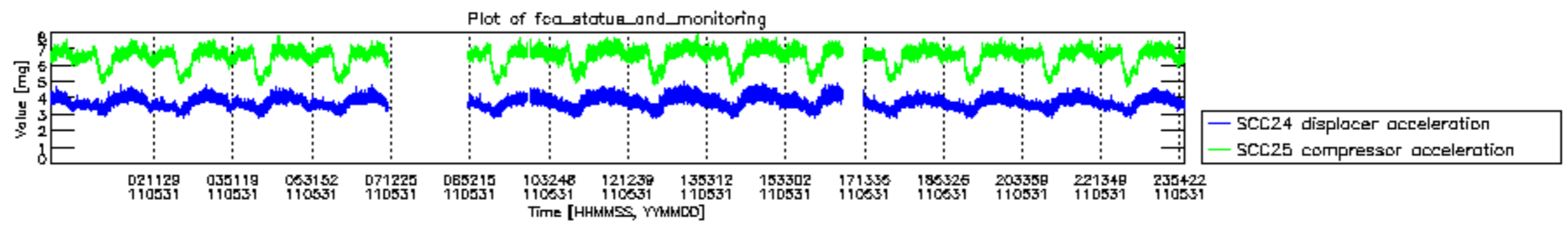












MIPNLOP_MIPSOUPAC_aux_fields_igm_cal, channel statistics plot
 Colour indicates value.

