

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 | 04DEC2011 05:23:55 |
| Data source version | KSPT_L0/4504-N |
| Processing scope for products | 29NOV2011 00:00:00 to 30NOV2011 00:00:00 |
| Start time of first product within scope | 29NOV2011 00:16:31 |
| Stop time of last product within scope | 30NOV2011 01:20:38 |
| Total number of level 0 products | 16 |
| 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__0PNPDE20111129_001631_000059143109_00102_50978_4940.N1 | 29NOV2011 00:16:31 | 29NOV2011 01:55:05 | 0 | 0 | 0 | 0 | 0 |
| 1 | MIP_NL__0PNPDE20111129_015408_000044313109_00103_50979_4941.N1 | 29NOV2011 01:54:08 | 29NOV2011 03:07:59 | 0 | 0 | 0 | 0 | 0 |
| 2 | MIP_NL__0PNPDE20111129_030728_000061543109_00104_50980_4942.N1 | 29NOV2011 03:07:28 | 29NOV2011 04:50:02 | 0 | 0 | 0 | 0 | 0 |
| 3 | MIP_NL__0PNPDE20111129_044929_000060293109_00105_50981_4943.N1 | 29NOV2011 04:49:29 | 29NOV2011 06:29:58 | 0 | 0 | 0 | 0 | 0 |
| 4 | MIP_NL__0PNPDK20111129_062924_000041203109_00106_50982_7656.N1 | 29NOV2011 06:29:24 | 29NOV2011 07:38:04 | 0 | 0 | 0 | 0 | 0 |
| 5 | MIP_NL__0PNPDK20111129_073707_000059603109_00107_50983_7657.N1 | 29NOV2011 07:37:07 | 29NOV2011 09:16:27 | 0 | 0 | 0 | 0 | 0 |
| 6 | MIP_NL__0PNPDK20111129_091504_000061523109_00108_50984_7658.N1 | 29NOV2011 09:15:04 | 29NOV2011 10:57:36 | 0 | 0 | 0 | 0 | 0 |
| 7 | MIP_NL__0PNPDK20111129_105558_000059203109_00109_50985_7659.N1 | 29NOV2011 10:55:58 | 29NOV2011 12:34:38 | 0 | 0 | 0 | 0 | 0 |
| 8 | MIP_NL__0PNPDK20111129_123310_000060103109_00110_50986_7660.N1 | 29NOV2011 12:33:10 | 29NOV2011 14:13:21 | 0 | 0 | 0 | 0 | 0 |
| 9 | MIP_NL__0PNPDK20111129_141237_000060143109_00111_50987_7661.N1 | 29NOV2011 14:12:37 | 29NOV2011 15:52:51 | 0 | 0 | 0 | 0 | 0 |
| 10 | MIP_NL__0PNPDK20111129_155216_000058333109_00112_50988_7662.N1 | 29NOV2011 15:52:16 | 29NOV2011 17:29:28 | 0 | 0 | 0 | 0 | 0 |
| 11 | MIP_NL__0PNPDK20111129_172828_000058953109_00113_50989_7663.N1 | 29NOV2011 17:28:28 | 29NOV2011 19:06:43 | 0 | 0 | 0 | 0 | 0 |
| 12 | MIP_NL__0PNPDK20111129_190444_000060793109_00114_50990_7664.N1 | 29NOV2011 19:04:44 | 29NOV2011 20:46:03 | 0 | 0 | 0 | 0 | 0 |
| 13 | MIP_NL__0PNPDE20111129_204438_000044563109_00115_50991_4944.N1 | 29NOV2011 20:44:38 | 29NOV2011 21:58:54 | 0 | 0 | 0 | 0 | 0 |
| 14 | MIP_NL__0PNPDE20111129_215757_000061843109_00115_50991_4945.N1 | 29NOV2011 21:57:57 | 29NOV2011 23:41:01 | 0 | 0 | 0 | 0 | 0 |
| 15 | MIP_NL__0PNPDE20111129_233954_000060443109_00116_50992_4946.N1 | 29NOV2011 23:39:54 | 30NOV2011 01:20:38 | 0 | 0 | 0 | 0 | 0 |

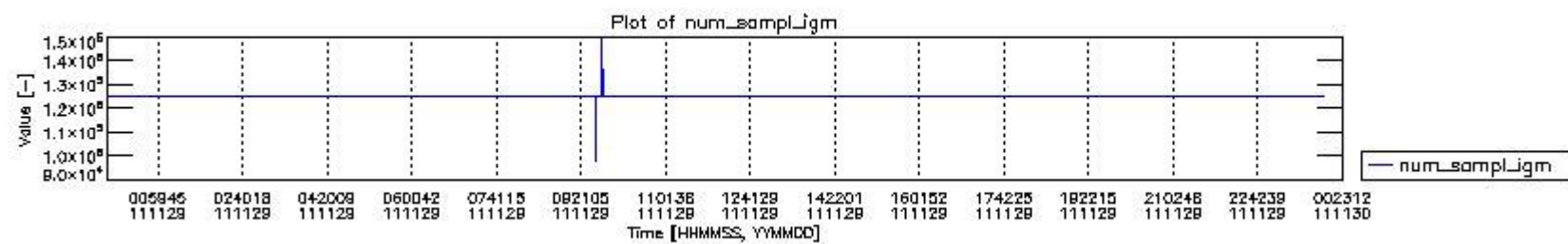
0.2 Instrument Operational Performance Parameters

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.

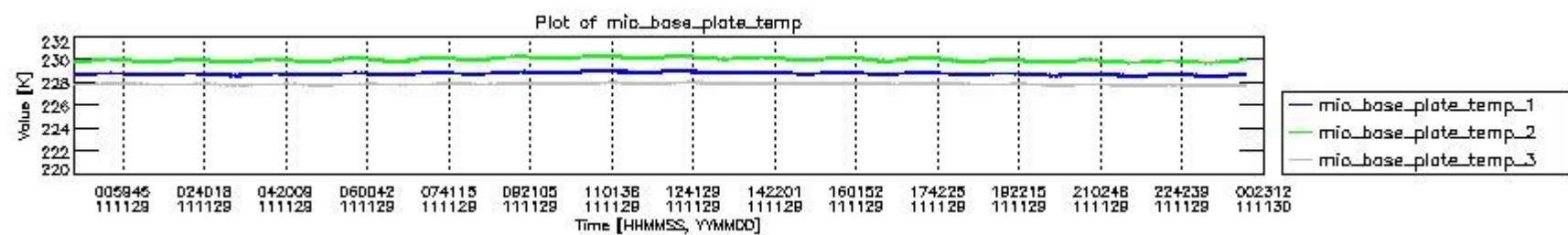
The following table shows the counts of various interferogram number of samples

| Number of igm samples | Count [#] | Count [%] |
|-----------------------|-----------|--------------|
| 98354 | 1 | 0.0024003841 |
| 101511 | 1 | 0.0024003841 |

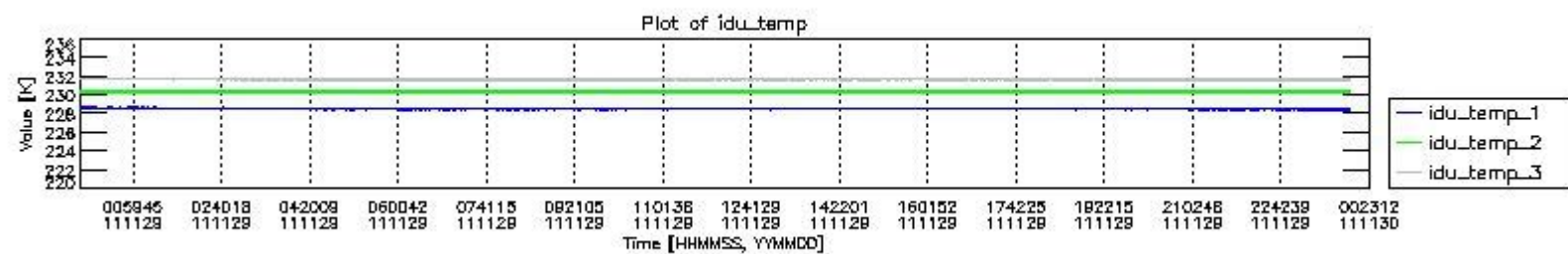
| | | |
|--------|-------|--------------|
| 121643 | 1 | 0.0024003841 |
| 124800 | 38695 | 92.882861 |
| 124803 | 2959 | 7.1027364 |
| 127085 | 1 | 0.0024003841 |
| 147217 | 1 | 0.0024003841 |
| 149502 | 1 | 0.0024003841 |



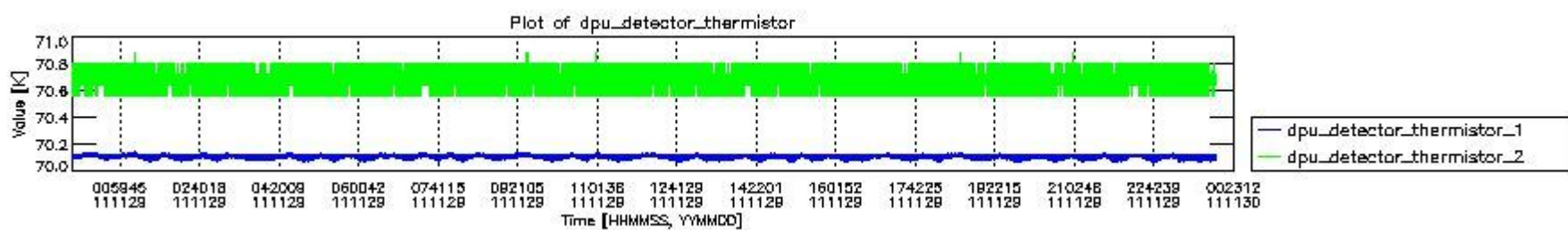
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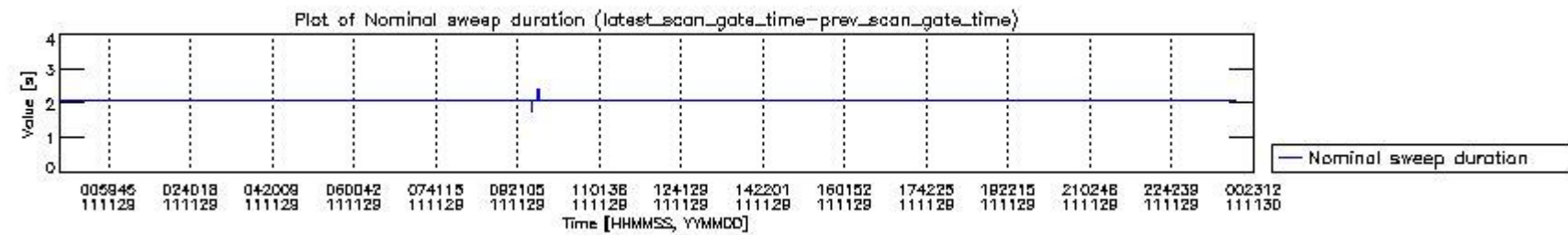
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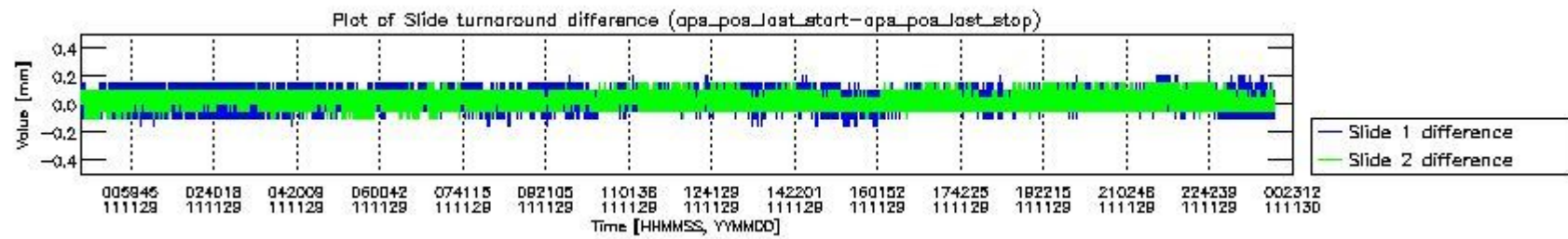
mipas_daily_report_level0_KSPT_L0_4504_N_20111129_2.PNG



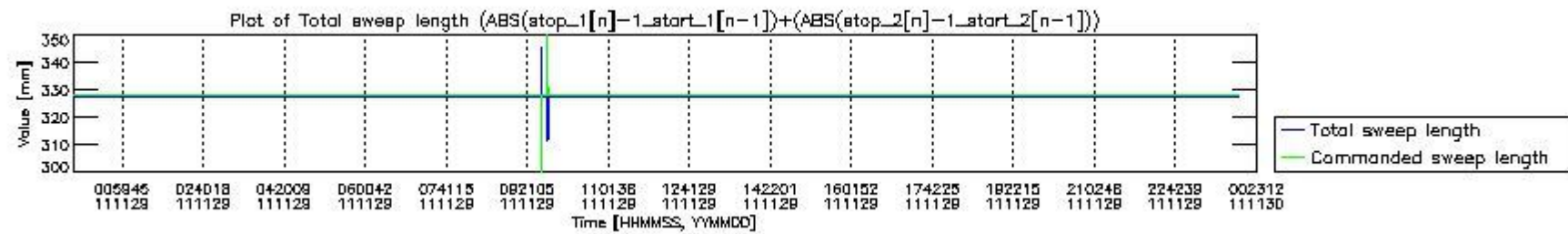
mipas_daily_report_level0_KSPT_L0_4504_N_20111129_3.PNG



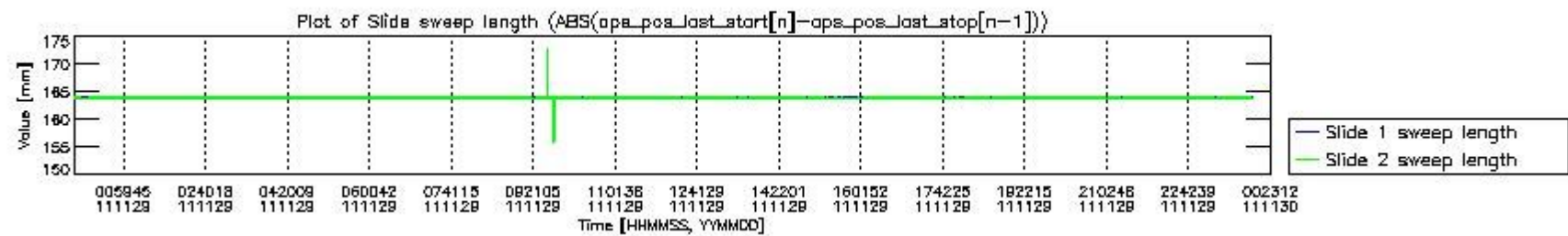
mipas_daily_report_level0_KSPT_L0_4504_N_20111129_4.PNG



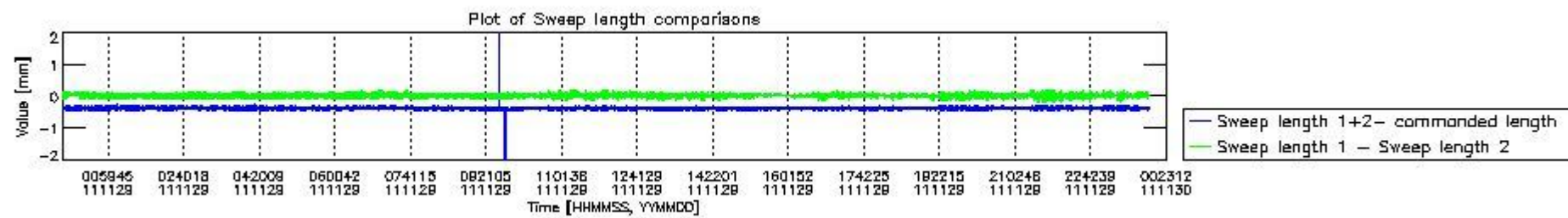
mipas_daily_report_level0_KSPT_L0_4504_N_20111129_5.PNG



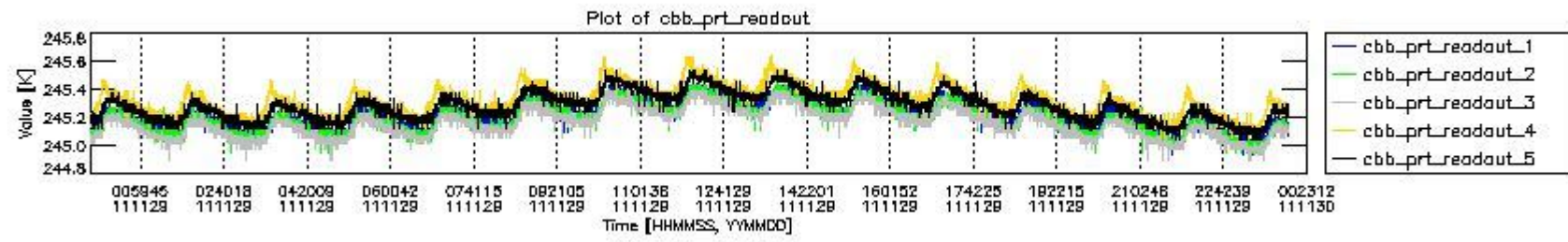
mipas_daily_report_level0_KSPT_L0_4504_N_20111129_6.PNG



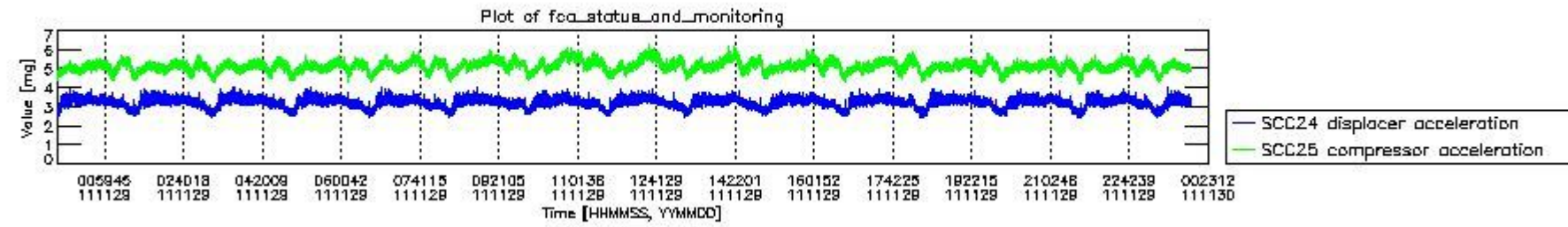
mipas_daily_report_level0_KSPT_L0_4504_N_20111129_7.PNG



mipas_daily_report_level0_KSPT_L0_4504_N_20111129_8.PNG



mipas_daily_report_level0_KSPT_L0_4504_N_20111129_9.PNG

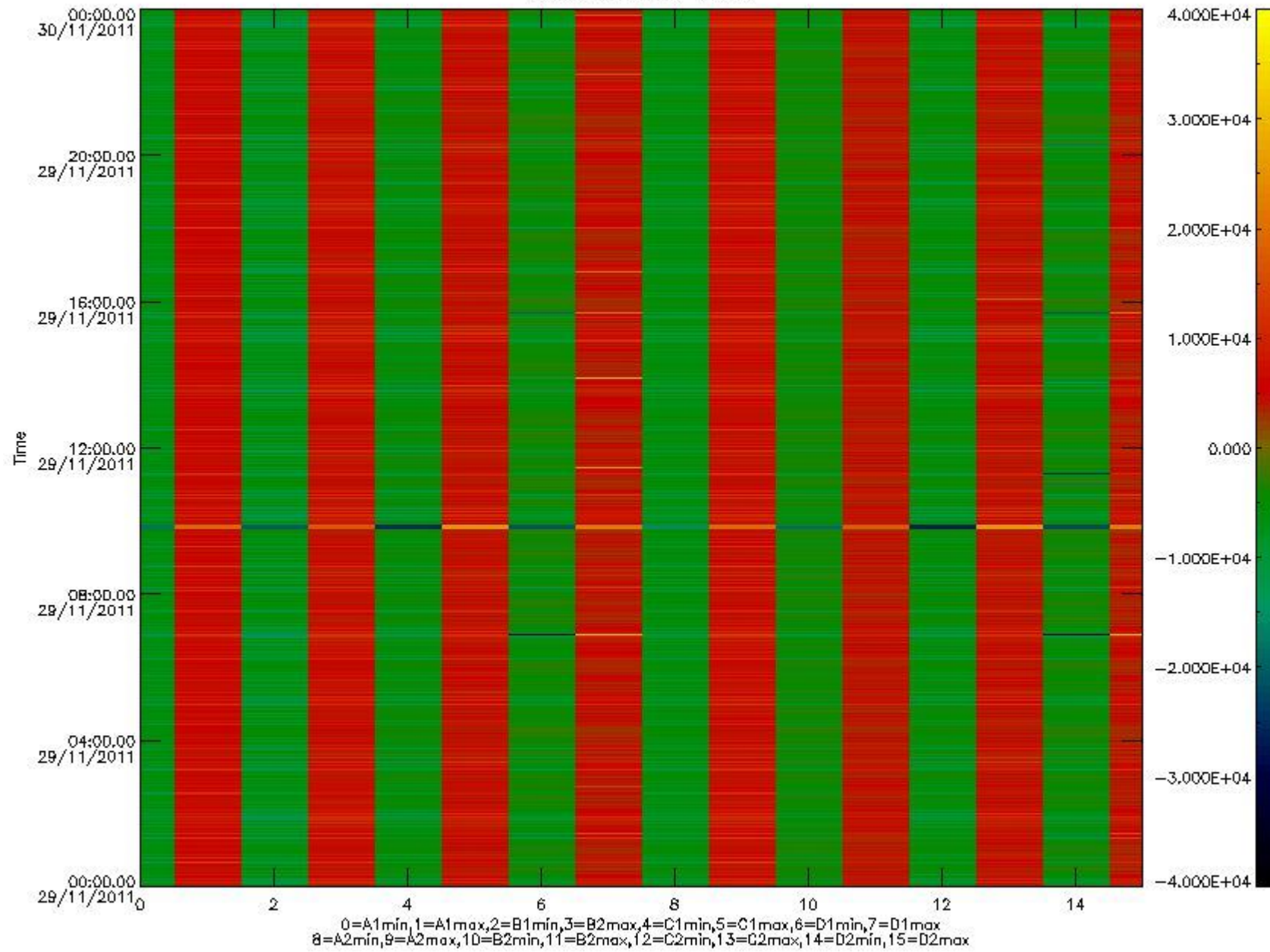


mipas_daily_report_level0_KSPT_L0_4504_N_20111129_10.PNG

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

| Channel | Min | Max | ADC |
|---------|--------|-------|-------|
| A1 | -18371 | 19469 | 16bit |
| B1 | -20847 | 17864 | 16bit |
| C1 | -25472 | 25431 | 16bit |
| D1 | -32768 | 32767 | 16bit |
| A2 | -15931 | 19678 | 16bit |
| B2 | -18730 | 18362 | 16bit |
| C2 | -26526 | 26150 | 16bit |
| D2 | -32768 | 32767 | 16bit |

MIPNL0P_MIPSOUPAC_aux_fields_igm_cal, channel statistics plot
Colour indicates value.



0=A1min,1=A1max,2=B1min,3=B2max,4=C1min,5=C1max,6=D1min,7=D1max
8=A2min,9=A2max,10=B2min,11=B2max,12=C2min,13=C2max,14=D2min,15=D2max

mipas_daily_report_level0_KSPT_L0_4504_N_20111129_11.PNG

0.3 ADF monitoring

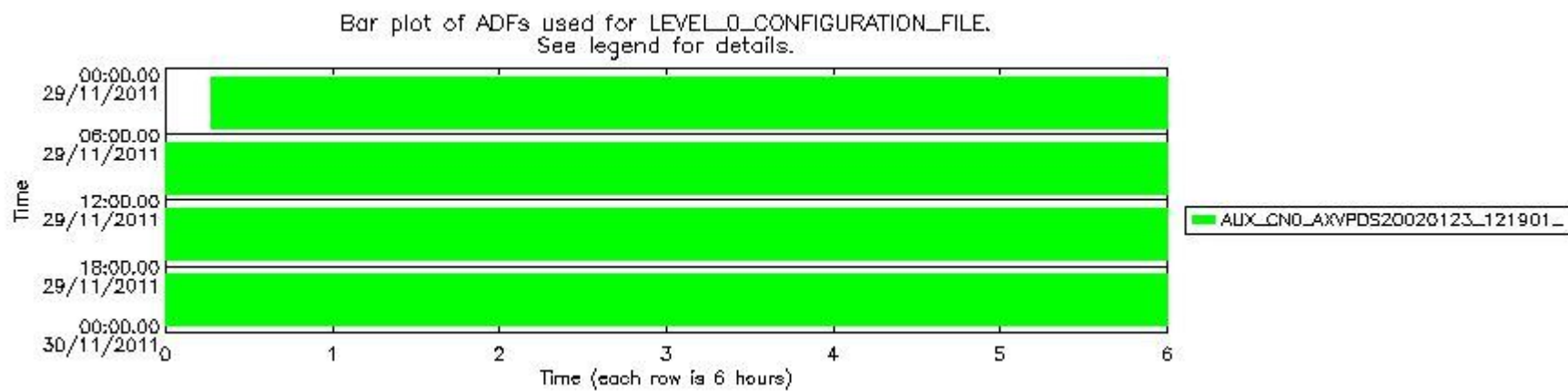
The use of ADFs is shown in two ways:

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.

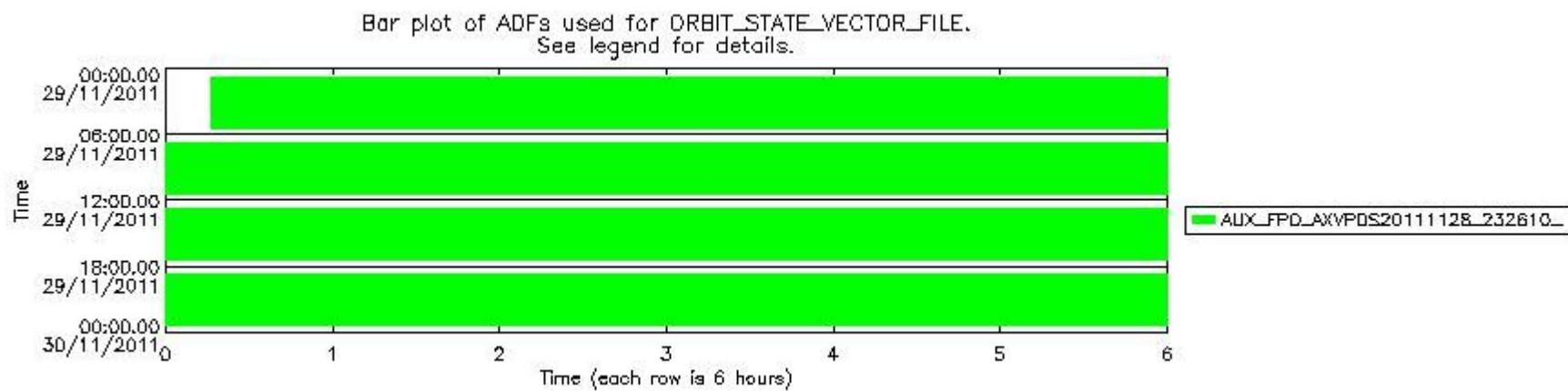
| Number | ADF |
|--------|---|
| 0 | AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000 |
| 1 | AUX_FPO_AXVPDS20111128_232610_20111128_192715_20111208_200042 |

| Number | Product name | #CN0 | #FPO |
|--------|---|------|------|
| 0 | MIP_NL_0PNPDE20111129_001631_000059143109_00102_50978_4940.N1 | 0 | 1 |

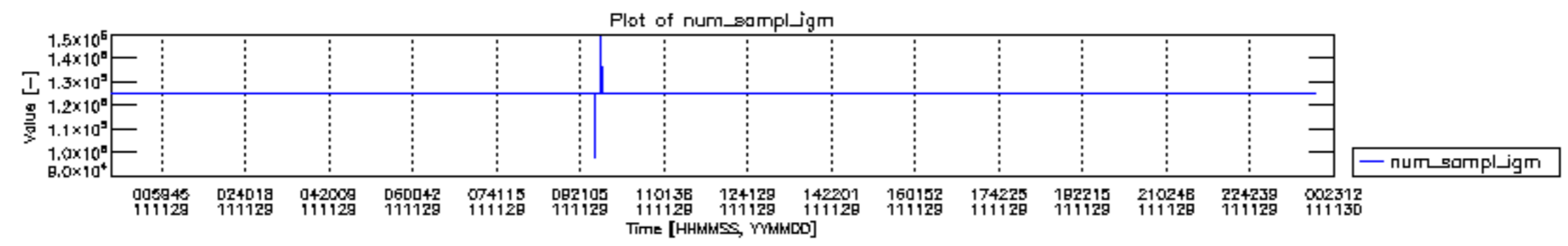
| | | | |
|----|--|---|---|
| 1 | MIP_NL__0PNPDE20111129_015408_000044313109_00103_50979_4941.N1 | 0 | 1 |
| 2 | MIP_NL__0PNPDE20111129_030728_000061543109_00104_50980_4942.N1 | 0 | 1 |
| 3 | MIP_NL__0PNPDE20111129_044929_000060293109_00105_50981_4943.N1 | 0 | 1 |
| 4 | MIP_NL__0PNPDK20111129_062924_000041203109_00106_50982_7656.N1 | 0 | 1 |
| 5 | MIP_NL__0PNPDK20111129_073707_000059603109_00107_50983_7657.N1 | 0 | 1 |
| 6 | MIP_NL__0PNPDK20111129_091504_000061523109_00108_50984_7658.N1 | 0 | 1 |
| 7 | MIP_NL__0PNPDK20111129_105558_000059203109_00109_50985_7659.N1 | 0 | 1 |
| 8 | MIP_NL__0PNPDK20111129_123310_000060103109_00110_50986_7660.N1 | 0 | 1 |
| 9 | MIP_NL__0PNPDK20111129_141237_000060143109_00111_50987_7661.N1 | 0 | 1 |
| 10 | MIP_NL__0PNPDK20111129_155216_000058333109_00112_50988_7662.N1 | 0 | 1 |
| 11 | MIP_NL__0PNPDK20111129_172828_000058953109_00113_50989_7663.N1 | 0 | 1 |
| 12 | MIP_NL__0PNPDK20111129_190444_000060793109_00114_50990_7664.N1 | 0 | 1 |
| 13 | MIP_NL__0PNPDE20111129_204438_000044563109_00115_50991_4944.N1 | 0 | 1 |
| 14 | MIP_NL__0PNPDE20111129_215757_000061843109_00115_50991_4945.N1 | 0 | 1 |
| 15 | MIP_NL__0PNPDE20111129_233954_000060443109_00116_50992_4946.N1 | 0 | 1 |

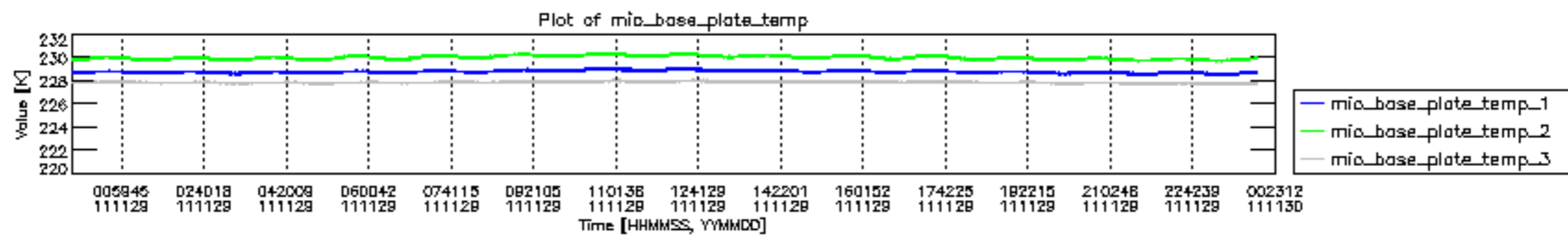


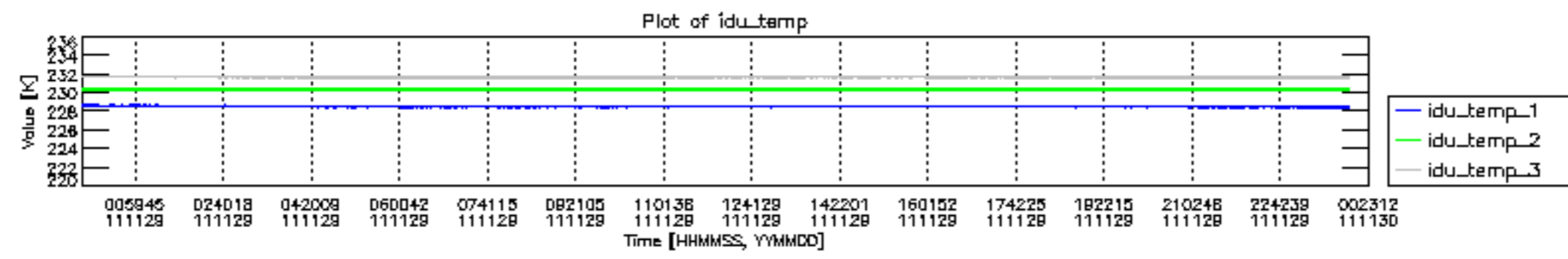
mipas_daily_report_level0_KSPT_L0_4504_N_20111129_12.PNG

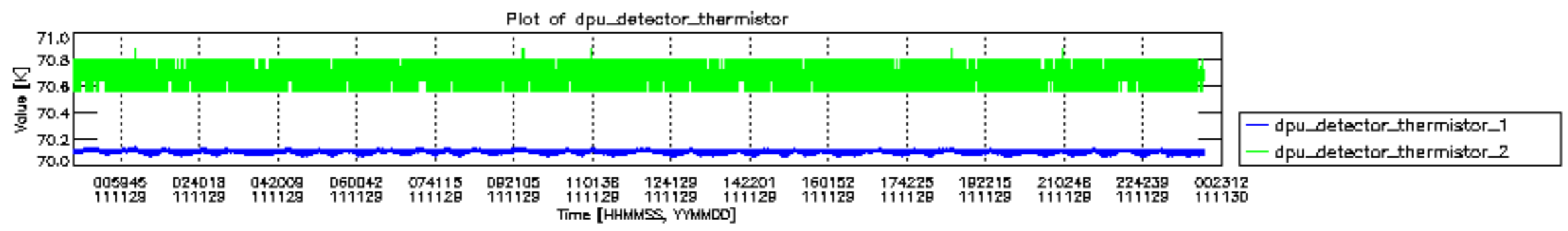


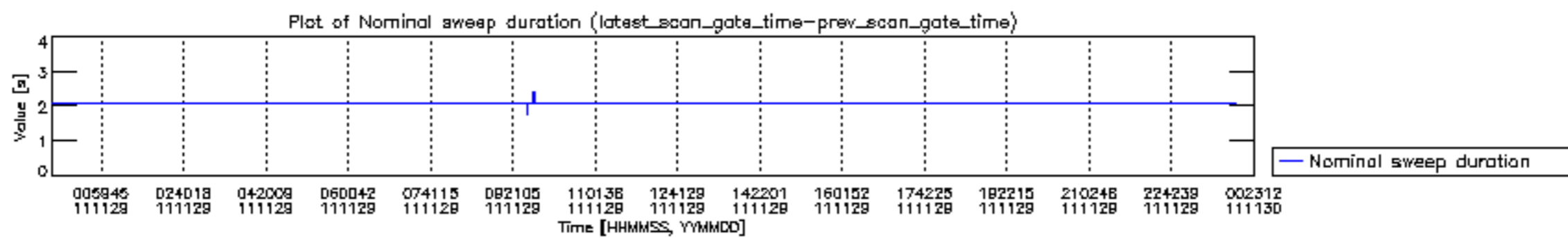
mipas_daily_report_level0_KSPT_L0_4504_N_20111129_13.PNG

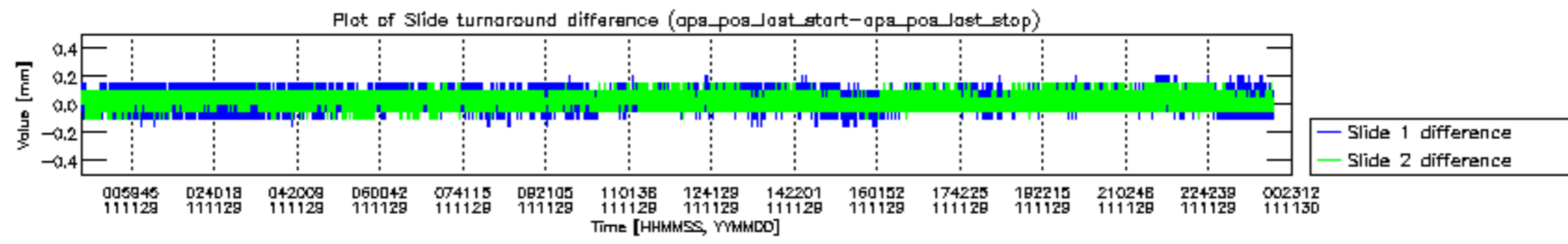


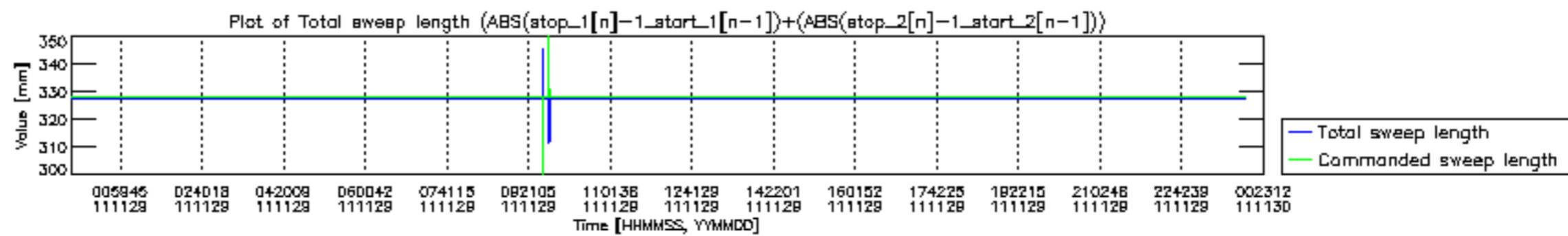


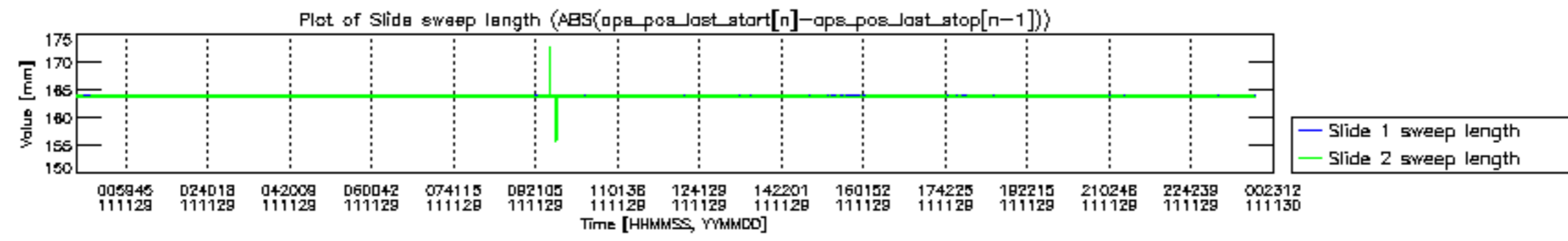


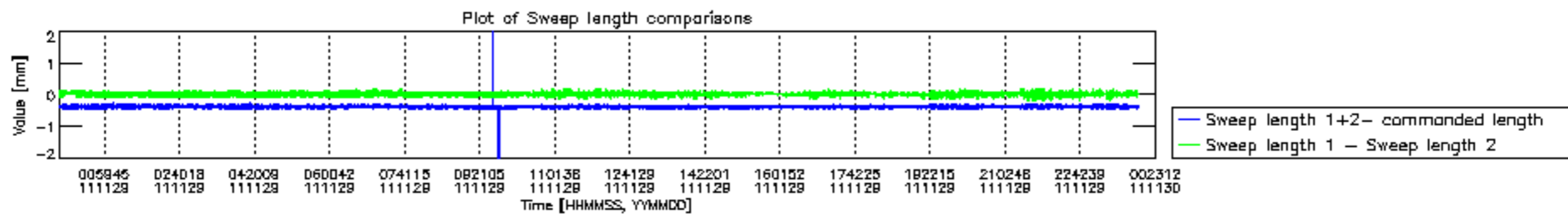


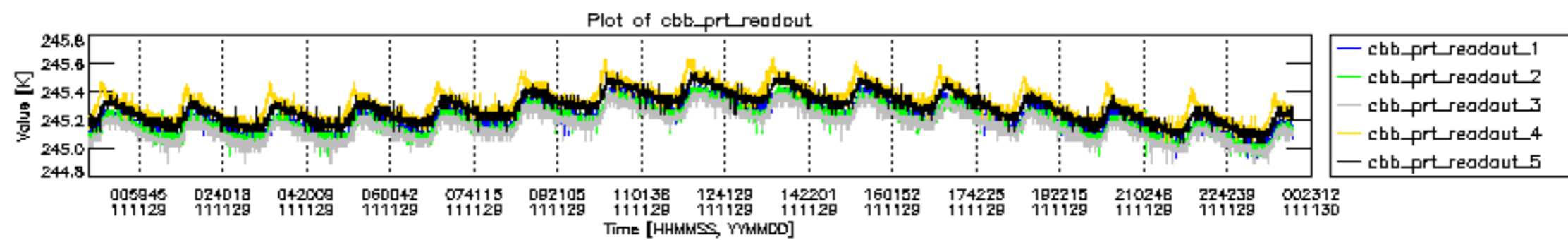


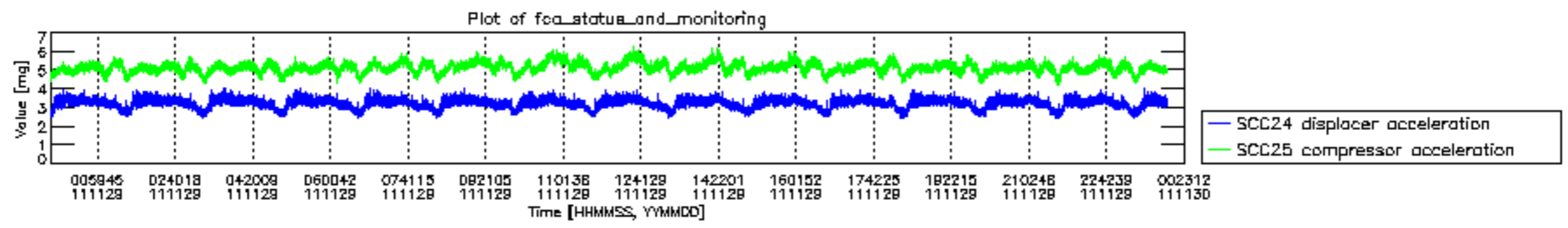












MIPNLOP_MIPSOUPAC_aux_fields_igm_cal, channel statistics plot
 Colour indicates value.

