

## 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                | 10MAR2011 05:24:03                       |
| Data source version                      | KSPT_L0/4504-N                           |
| Processing scope for products            | 05MAR2011 00:00:00 to 06MAR2011 00:00:00 |
| Start time of first product within scope | 05MAR2011 01:15:46                       |
| Stop time of last product within scope   | 06MAR2011 00:40:00                       |
| 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__0PNPDE20110305_011546_000102443100_00117_47114_3038.N1 | 05MAR2011 01:15:46 | 05MAR2011 04:06:30 | 0        | 0            | 0             | 0             | 0       |
| 1  | MIP_NL__0PNPDE20110305_013542_000014003100_00118_47115_3040.N1 | 05MAR2011 01:35:42 | 05MAR2011 01:59:02 | 0        | 0            | 0             | 0             | 0       |
| 2  | MIP_NL__0PNPDE20110305_015904_000076463100_00118_47115_3041.N1 | 05MAR2011 01:59:04 | 05MAR2011 04:06:30 | 0        | 0            | 0             | 0             | 0       |
| 3  | MIP_NL__0PNPDE20110305_040558_000062153100_00119_47116_3042.N1 | 05MAR2011 04:05:58 | 05MAR2011 05:49:34 | 0        | 0            | 0             | 0             | 0       |
| 4  | MIP_NL__0PNPDE20110305_054900_000061913100_00120_47117_3043.N1 | 05MAR2011 05:49:00 | 05MAR2011 07:32:11 | 0        | 0            | 0             | 0             | 0       |
| 5  | MIP_NL__0PNPDE20110305_064115_000030563100_00121_47118_3044.N1 | 05MAR2011 06:41:15 | 05MAR2011 07:32:11 | 0        | 0            | 0             | 0             | 0       |
| 6  | MIP_NL__0PNPDK20110305_073138_000038613100_00121_47118_4476.N1 | 05MAR2011 07:31:38 | 05MAR2011 08:35:58 | 0        | 0            | 0             | 0             | 0       |
| 7  | MIP_NL__0PNPDK20110305_101748_000059673100_00123_47120_4478.N1 | 05MAR2011 10:17:48 | 05MAR2011 11:57:16 | 0        | 0            | 0             | 0             | 0       |
| 8  | MIP_NL__0PNPDK20110305_115617_000060003100_00124_47121_4479.N1 | 05MAR2011 11:56:17 | 05MAR2011 13:36:17 | 0        | 0            | 0             | 0             | 0       |
| 9  | MIP_NL__0PNPDK20110305_133518_000057453100_00125_47122_4480.N1 | 05MAR2011 13:35:18 | 05MAR2011 15:11:03 | 0        | 0            | 0             | 0             | 0       |
| 10 | MIP_NL__0PNPDK20110305_150929_000061123100_00126_47123_4481.N1 | 05MAR2011 15:09:29 | 05MAR2011 16:51:22 | 0        | 0            | 0             | 0             | 0       |
| 11 | MIP_NL__0PNPDK20110305_164946_000058333100_00127_47124_4482.N1 | 05MAR2011 16:49:46 | 05MAR2011 18:26:58 | 0        | 0            | 0             | 0             | 0       |
| 12 | MIP_NL__0PNPDK20110305_182625_000060143100_00128_47125_4483.N1 | 05MAR2011 18:26:25 | 05MAR2011 20:06:39 | 0        | 0            | 0             | 0             | 0       |
| 13 | MIP_NL__0PNPDE20110305_200509_000044413100_00129_47126_3045.N1 | 05MAR2011 20:05:09 | 05MAR2011 21:19:10 | 0        | 0            | 0             | 0             | 0       |
| 14 | MIP_NL__0PNPDE20110305_211722_000062253100_00129_47126_3046.N1 | 05MAR2011 21:17:22 | 05MAR2011 23:01:07 | 0        | 0            | 0             | 0             | 0       |
| 15 | MIP_NL__0PNPDE20110305_230009_000059913100_00130_47127_3047.N1 | 05MAR2011 23:00:09 | 06MAR2011 00:40:00 | 0        | 0            | 0             | 0             | 0       |

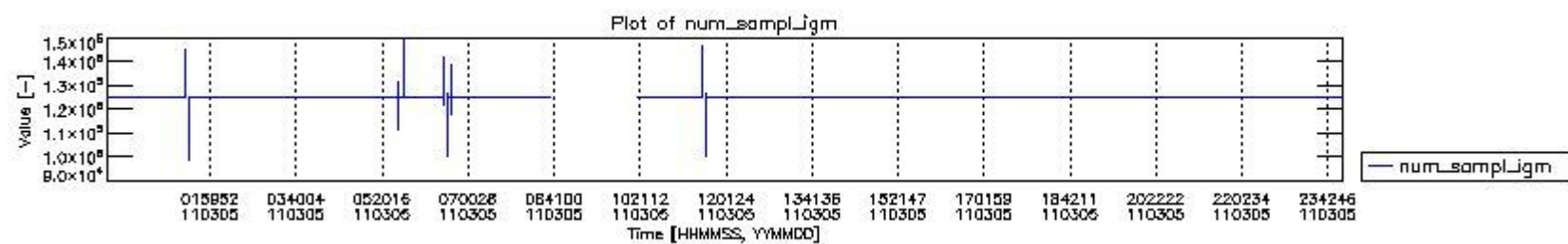
## 0.2 Instrument Operational Performance Parameters

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.

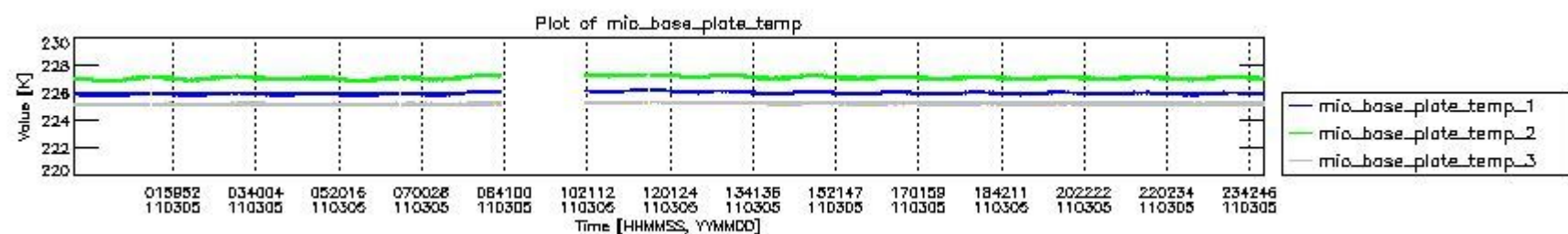
The following table shows the counts of various interferogram number of samples

| Number of igm samples | Count [#] | Count [%]    |
|-----------------------|-----------|--------------|
| 98773                 | 1         | 0.0026073580 |
| 100706                | 2         | 0.0052147159 |

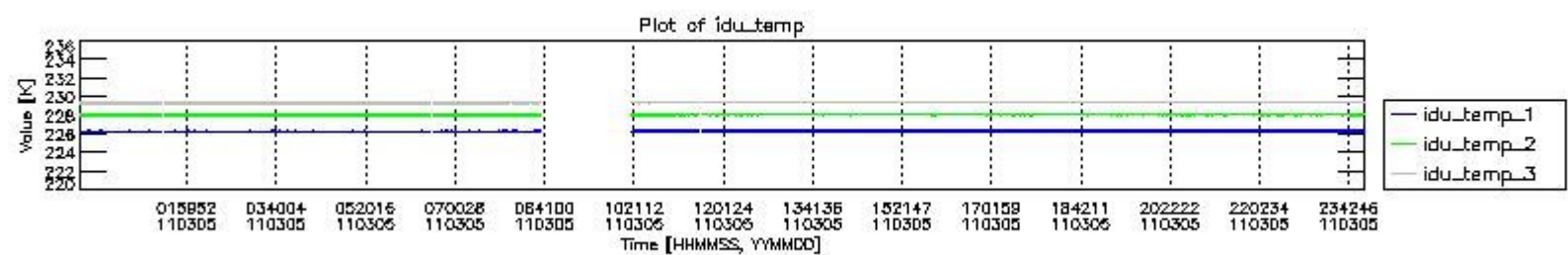
|        |       |              |
|--------|-------|--------------|
| 111696 | 1     | 0.0026073580 |
| 118387 | 1     | 0.0026073580 |
| 118724 | 1     | 0.0026073580 |
| 121806 | 1     | 0.0026073580 |
| 123250 | 1     | 0.0026073580 |
| 124025 | 1     | 0.0026073580 |
| 124800 | 36029 | 93.940500    |
| 124803 | 2297  | 5.9891012    |
| 125077 | 1     | 0.0026073580 |
| 125598 | 1     | 0.0026073580 |
| 125958 | 2     | 0.0052147159 |
| 127116 | 2     | 0.0052147159 |
| 127159 | 1     | 0.0026073580 |
| 131828 | 1     | 0.0026073580 |
| 132106 | 1     | 0.0026073580 |
| 138519 | 1     | 0.0026073580 |
| 138944 | 1     | 0.0026073580 |
| 141938 | 1     | 0.0026073580 |
| 145209 | 1     | 0.0026073580 |
| 145486 | 1     | 0.0026073580 |
| 145730 | 1     | 0.0026073580 |
| 146528 | 1     | 0.0026073580 |
| 147291 | 1     | 0.0026073580 |
| 149650 | 1     | 0.0026073580 |



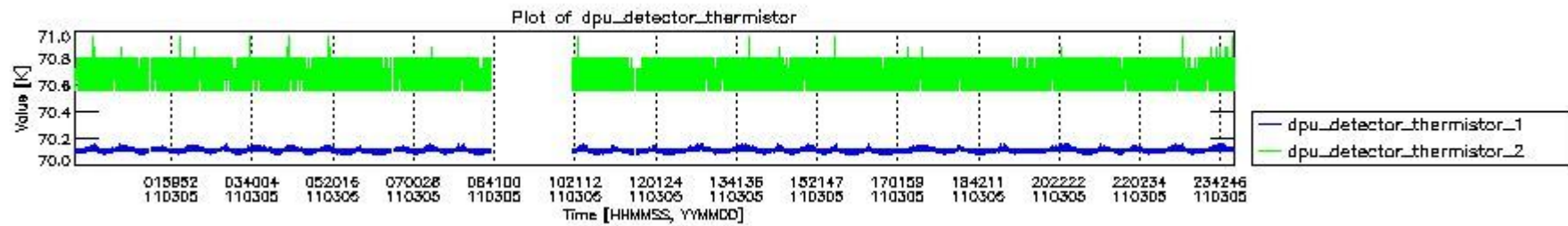
mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_0.PNG



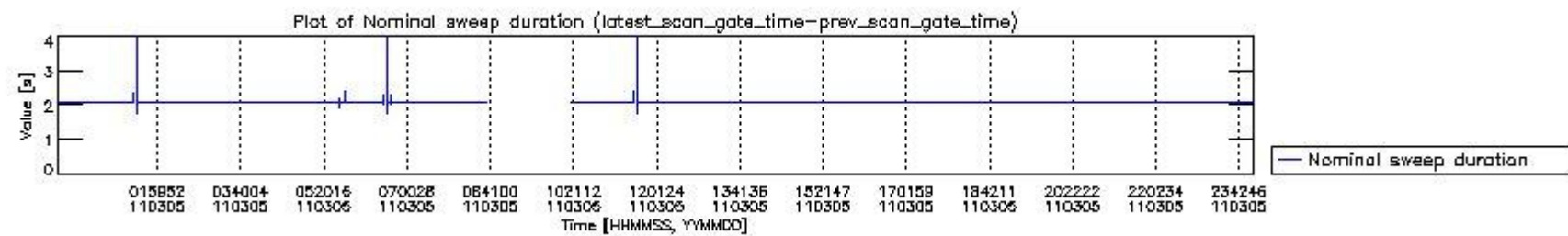
mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_1.PNG



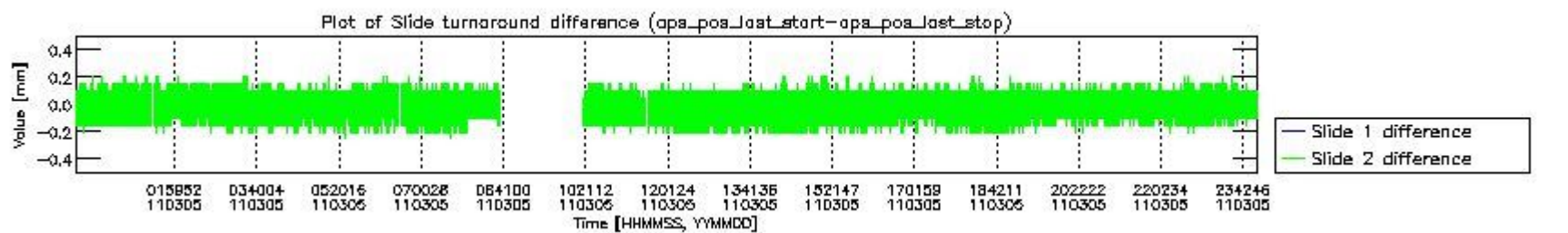
mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_2.PNG



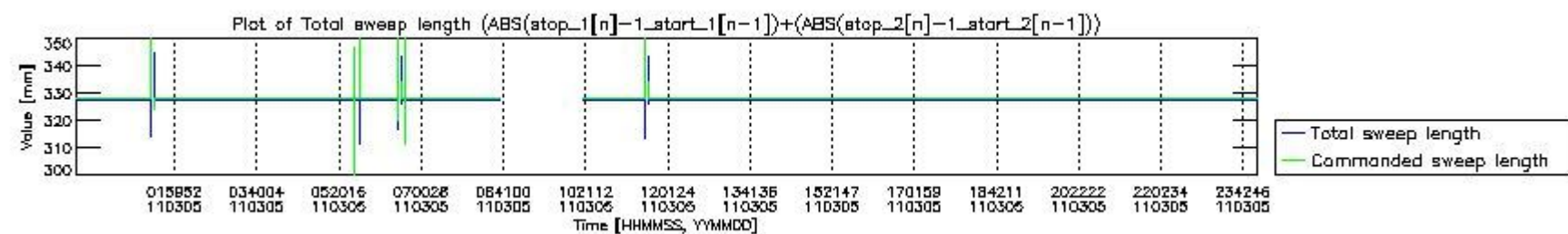
mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_3.PNG



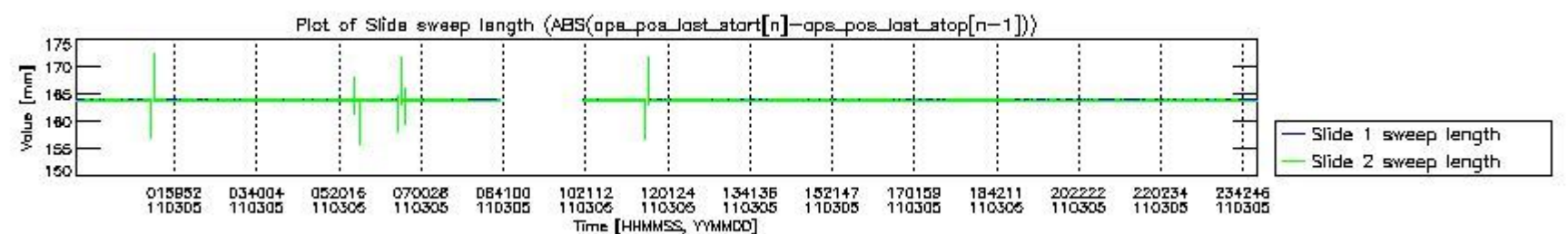
mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_4.PNG



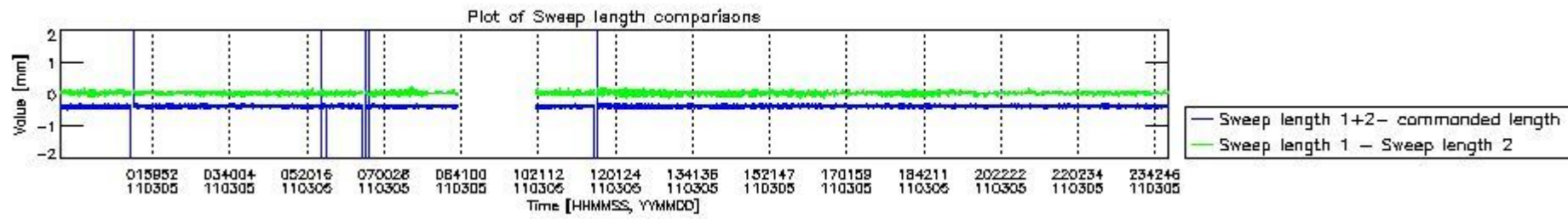
mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_5.PNG



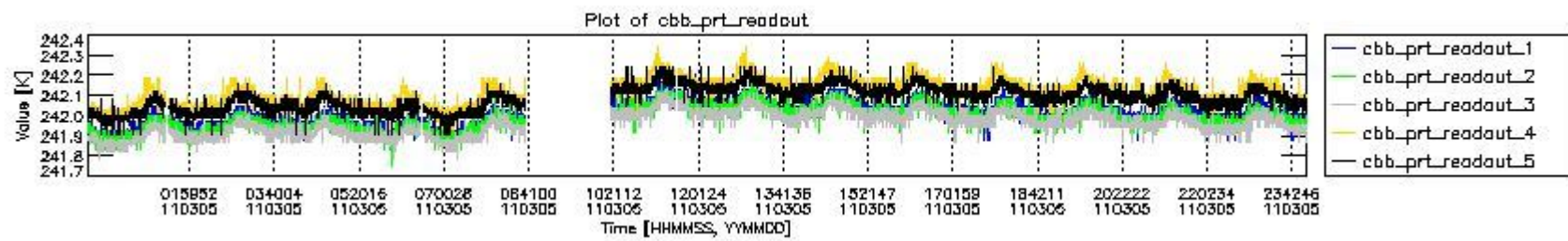
mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_6.PNG



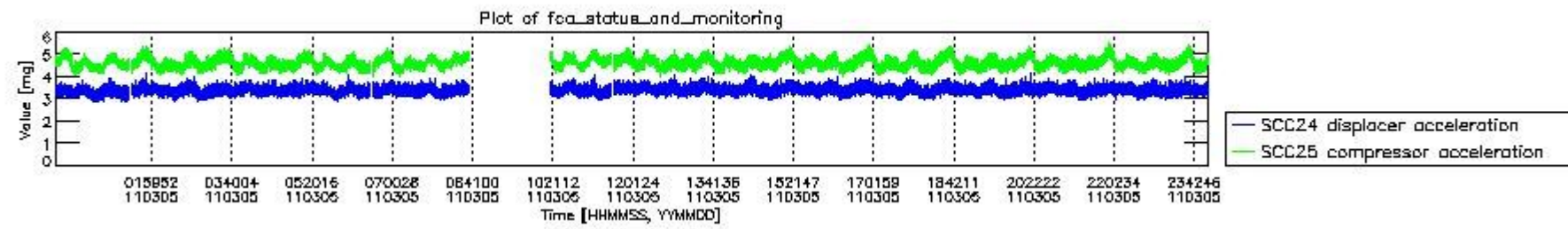
mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_7.PNG



mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_8.PNG



mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_9.PNG

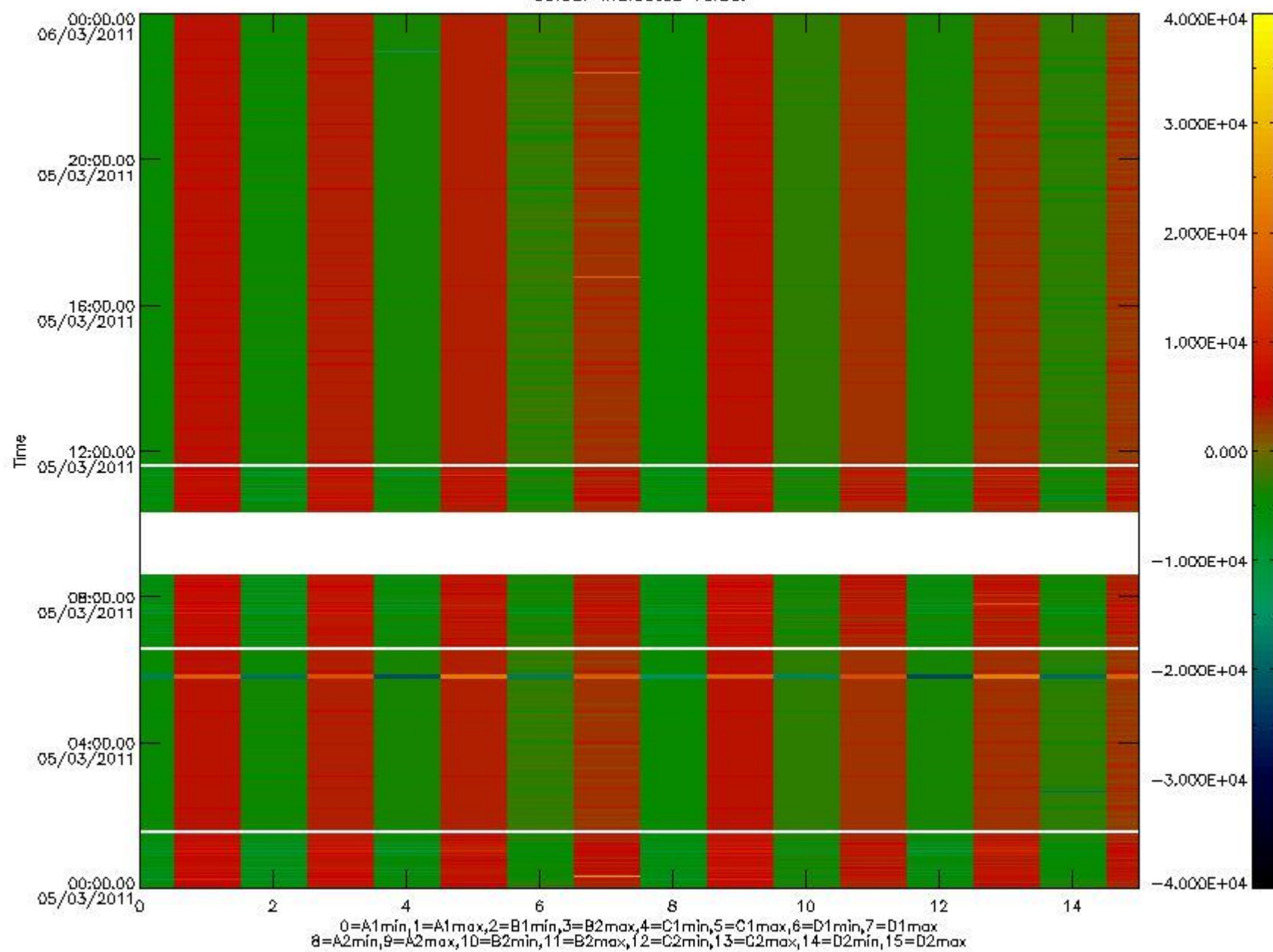


mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_10.PNG

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

| Channel | Min    | Max   | ADC   |
|---------|--------|-------|-------|
| A1      | -17483 | 18482 | 16bit |
| B1      | -19009 | 16514 | 16bit |
| C1      | -25904 | 22200 | 16bit |
| D1      | -20204 | 30018 | 16bit |
| A2      | -15181 | 18623 | 16bit |
| B2      | -17126 | 16826 | 16bit |
| C2      | -23215 | 24522 | 16bit |
| D2      | -32768 | 23856 | 16bit |

MIPNLOP\_MIPSOUPAC\_aux\_fields\_igm\_cal, channel statistics plot  
Colour indicates value.



mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_11.PNG

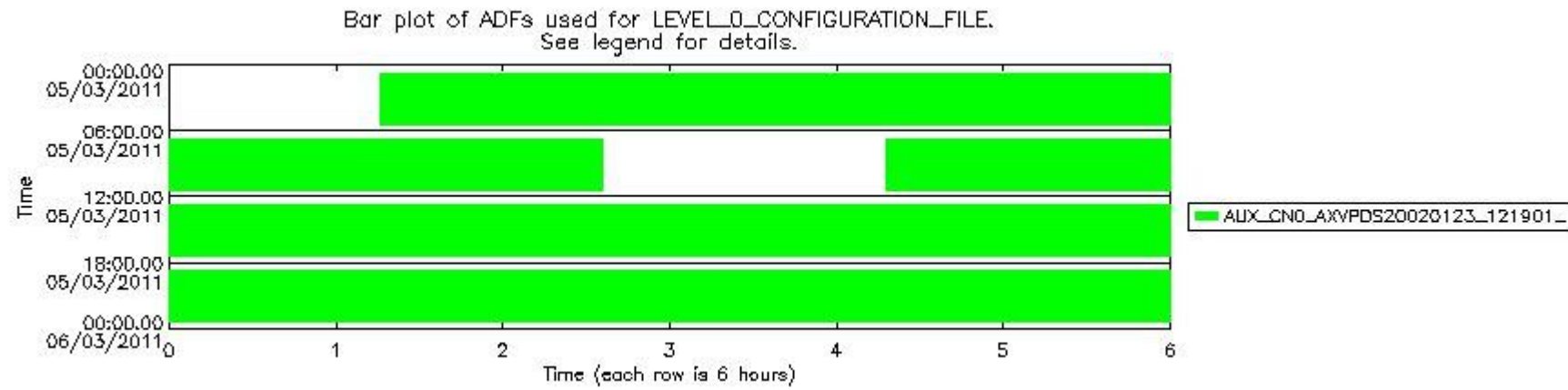
### 0.3 ADF monitoring

The use of ADFs is shown in two ways:

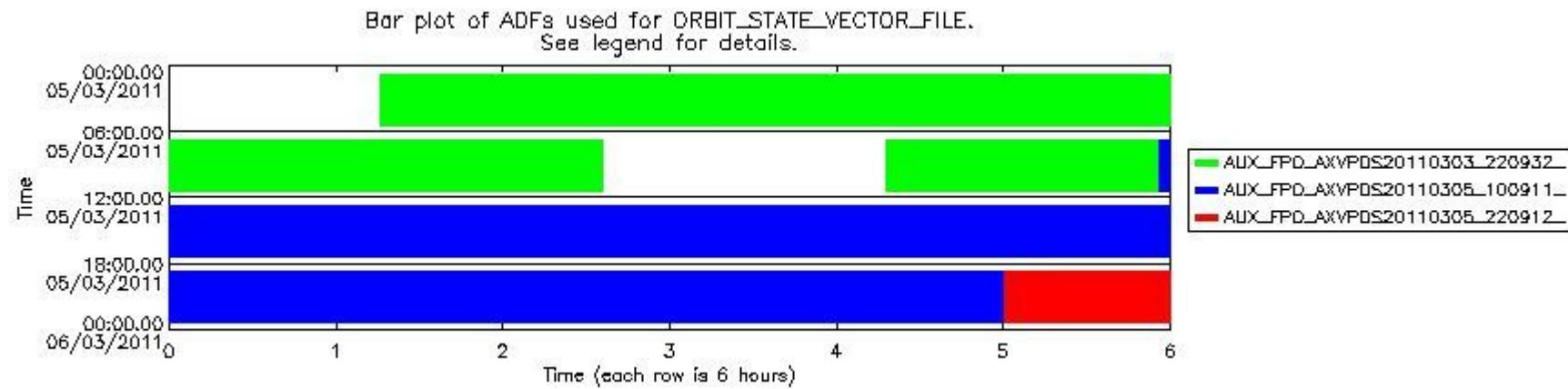
1. By means of two tables that can be used to find the ADF used for a specific product.
2. By means of plots that show changes in ADF using colours.

| Number | ADF   |
|--------|---|
| 0      | AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000 |
| 1      | AUX_FPO_AXVPDS20110303_220932_20110303_192340_20110313_213730 |
| 2      | AUX_FPO_AXVPDS20110305_100911_20110304_184656_20110314_210046 |
| 3      | AUX_FPO_AXVPDS20110305_220912_20110305_195026_20110315_202402 |

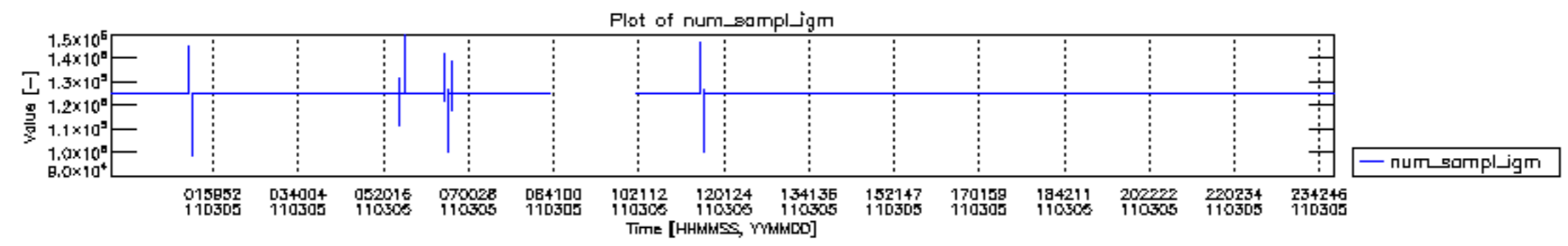
| Number | Product name   | #CNO | #FPO |
|--------|--|------|------|
| 0      | MIP_NL__0PNPDE20110305_011546_000102443100_00117_47114_3038.N1 | 0    | 1    |
| 1      | MIP_NL__0PNPDE20110305_013542_000014003100_00118_47115_3040.N1 | 0    | 1    |
| 2      | MIP_NL__0PNPDE20110305_015904_000076463100_00118_47115_3041.N1 | 0    | 1    |
| 3      | MIP_NL__0PNPDE20110305_040558_000062153100_00119_47116_3042.N1 | 0    | 1    |
| 4      | MIP_NL__0PNPDE20110305_054900_000061913100_00120_47117_3043.N1 | 0    | 1    |
| 5      | MIP_NL__0PNPDE20110305_064115_000030563100_00121_47118_3044.N1 | 0    | 2    |
| 6      | MIP_NL__0PNPDK20110305_073138_000038613100_00121_47118_4476.N1 | 0    | 1    |
| 7      | MIP_NL__0PNPDK20110305_101748_000059673100_00123_47120_4478.N1 | 0    | 1    |
| 8      | MIP_NL__0PNPDK20110305_115617_000060003100_00124_47121_4479.N1 | 0    | 2    |
| 9      | MIP_NL__0PNPDK20110305_133518_000057453100_00125_47122_4480.N1 | 0    | 2    |
| 10     | MIP_NL__0PNPDK20110305_150929_000061123100_00126_47123_4481.N1 | 0    | 2    |
| 11     | MIP_NL__0PNPDK20110305_164946_000058333100_00127_47124_4482.N1 | 0    | 2    |
| 12     | MIP_NL__0PNPDK20110305_182625_000060143100_00128_47125_4483.N1 | 0    | 2    |
| 13     | MIP_NL__0PNPDE20110305_200509_000044413100_00129_47126_3045.N1 | 0    | 2    |
| 14     | MIP_NL__0PNPDE20110305_211722_000062253100_00129_47126_3046.N1 | 0    | 2    |
| 15     | MIP_NL__0PNPDE20110305_230009_000059913100_00130_47127_3047.N1 | 0    | 3    |

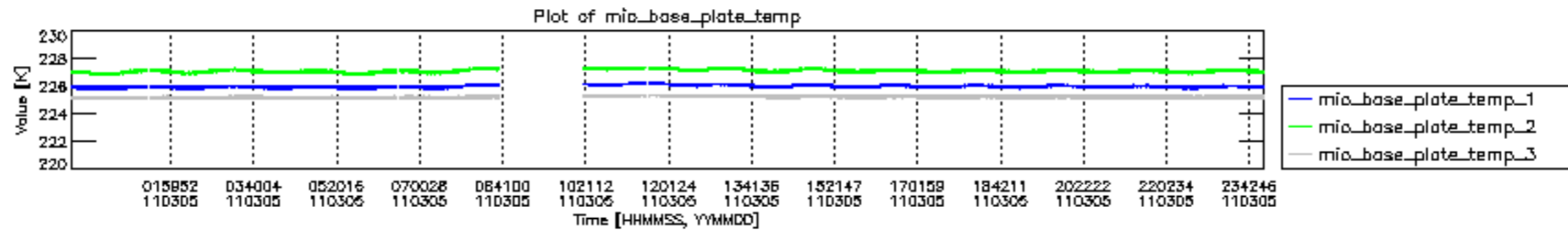


mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_12.PNG

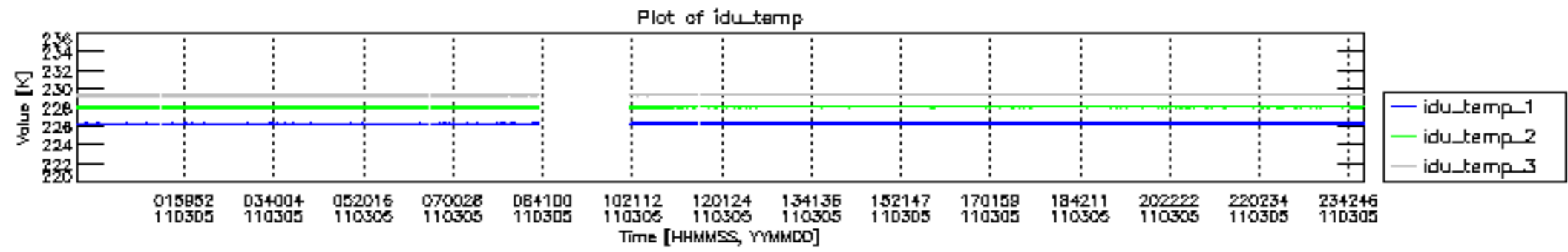


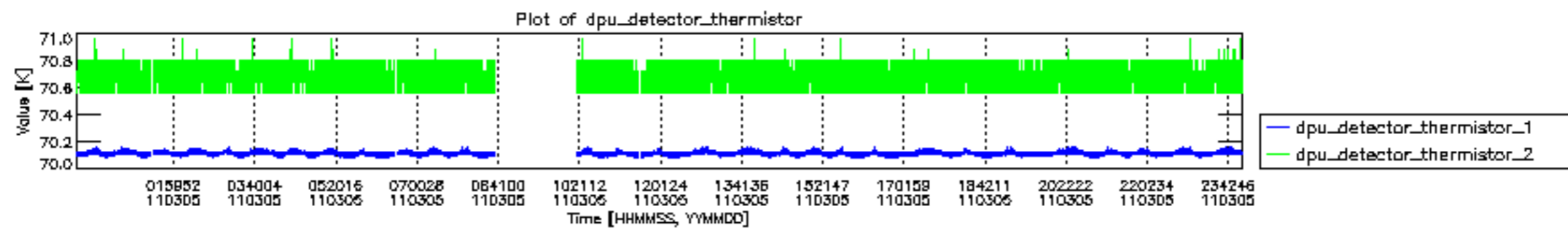
mipas\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110305\_13.PNG

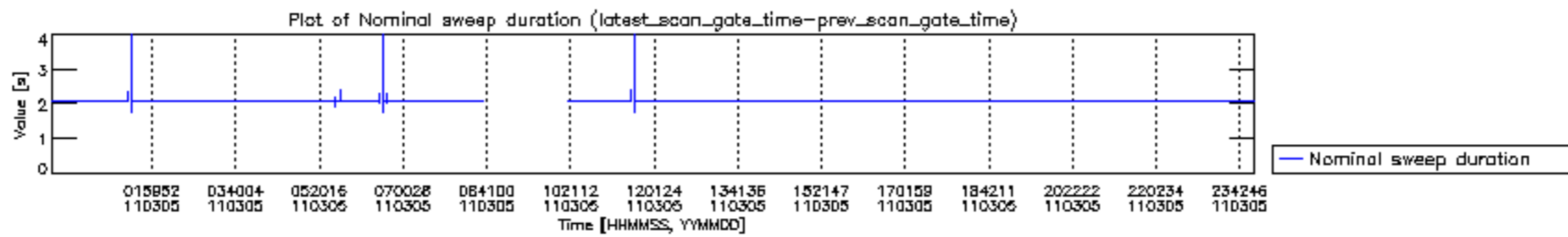


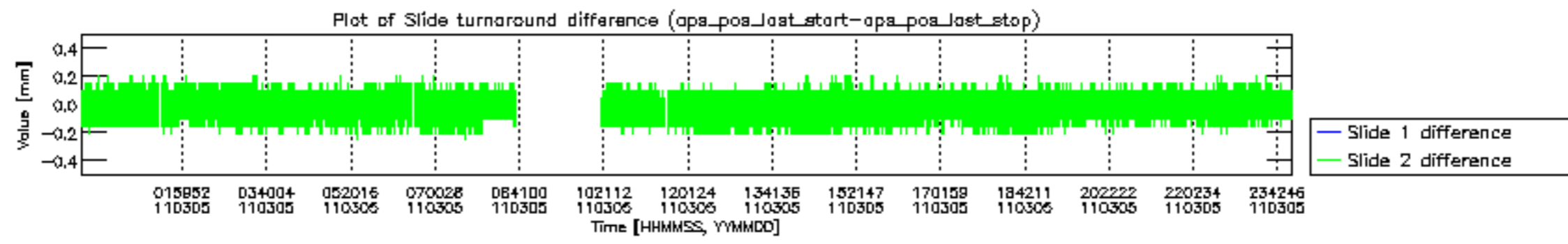


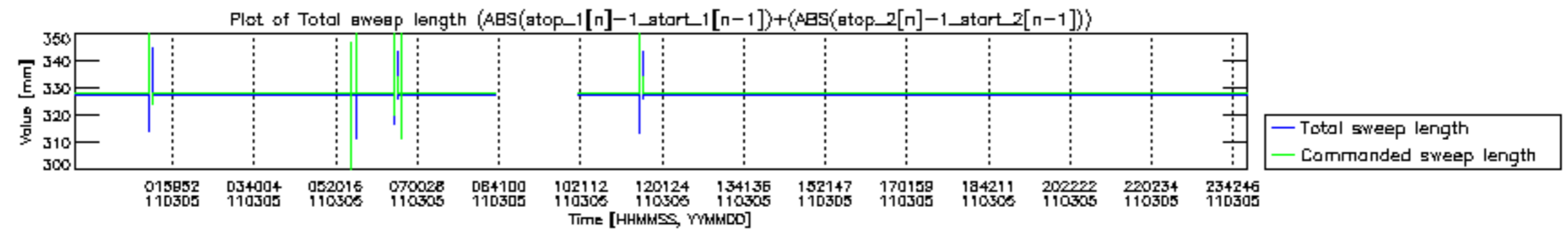


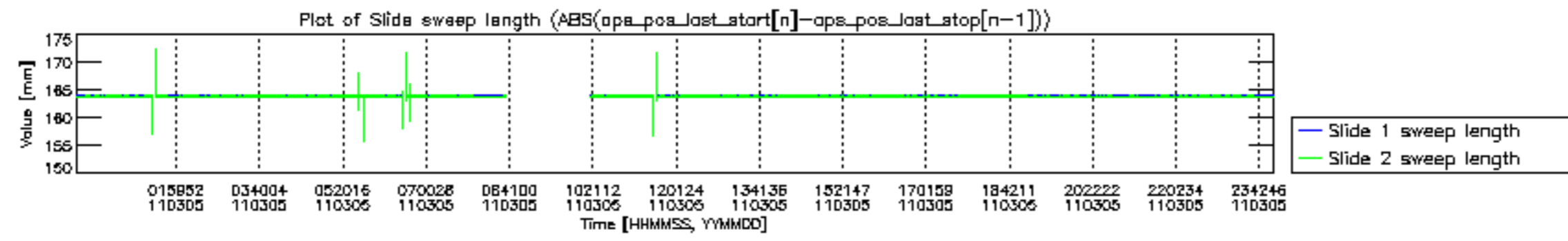


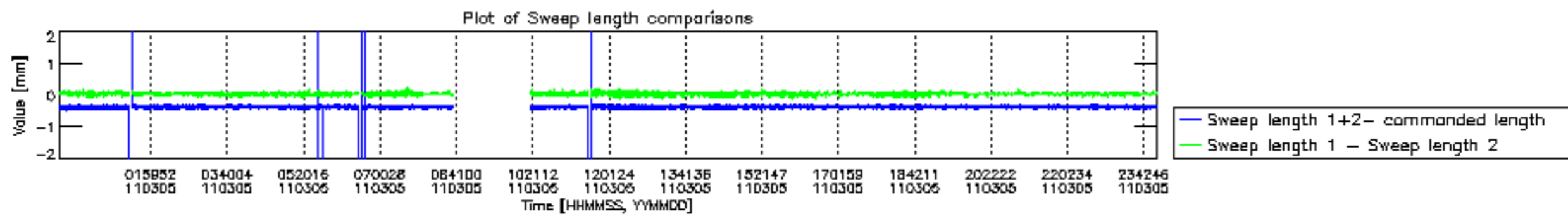


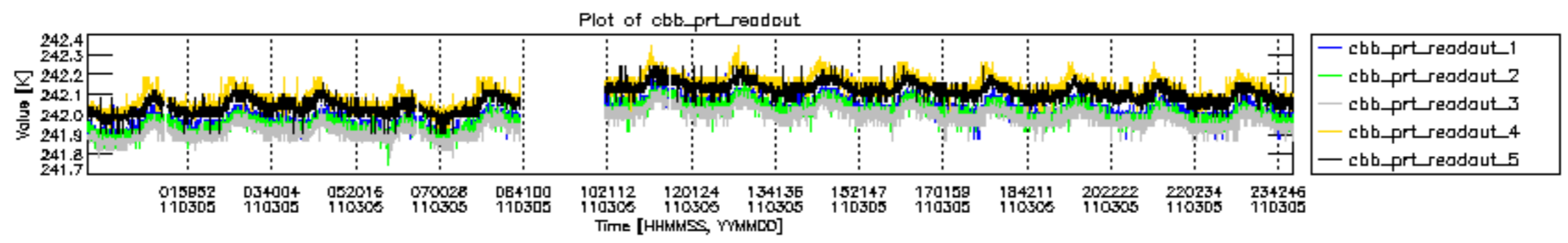




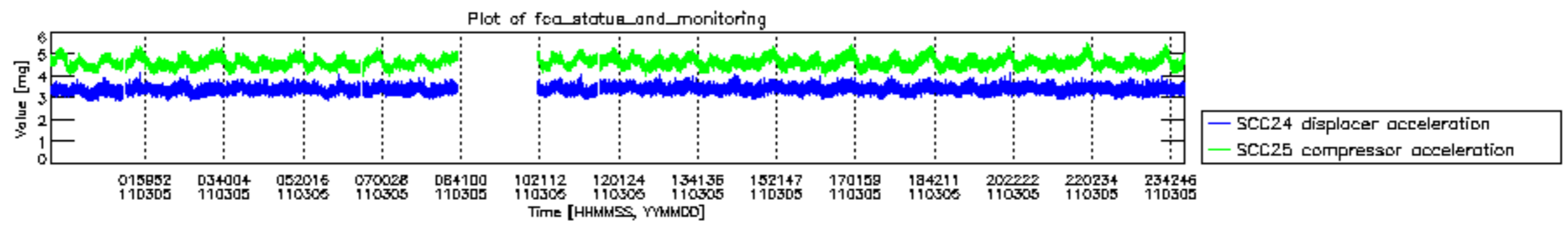




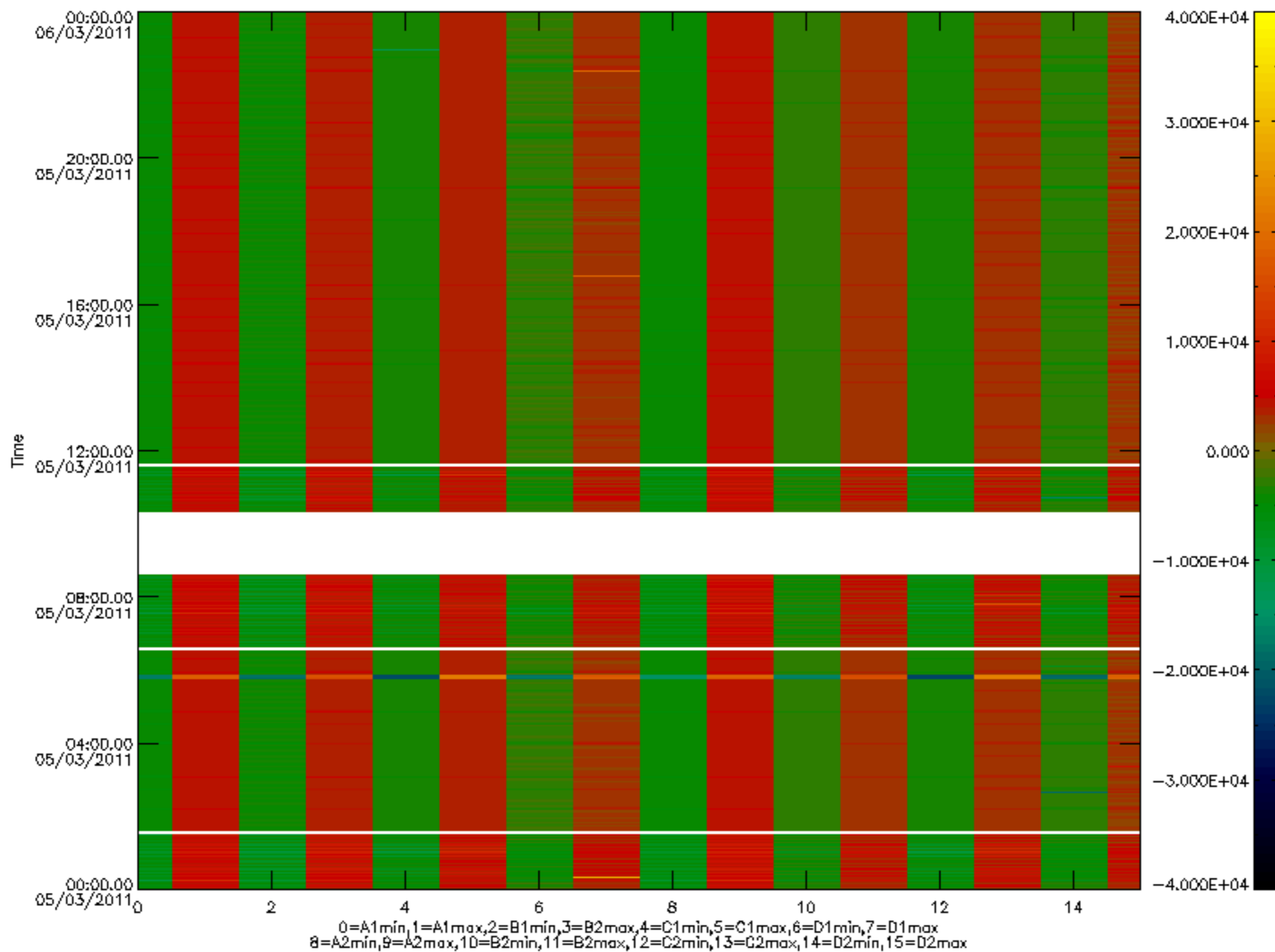


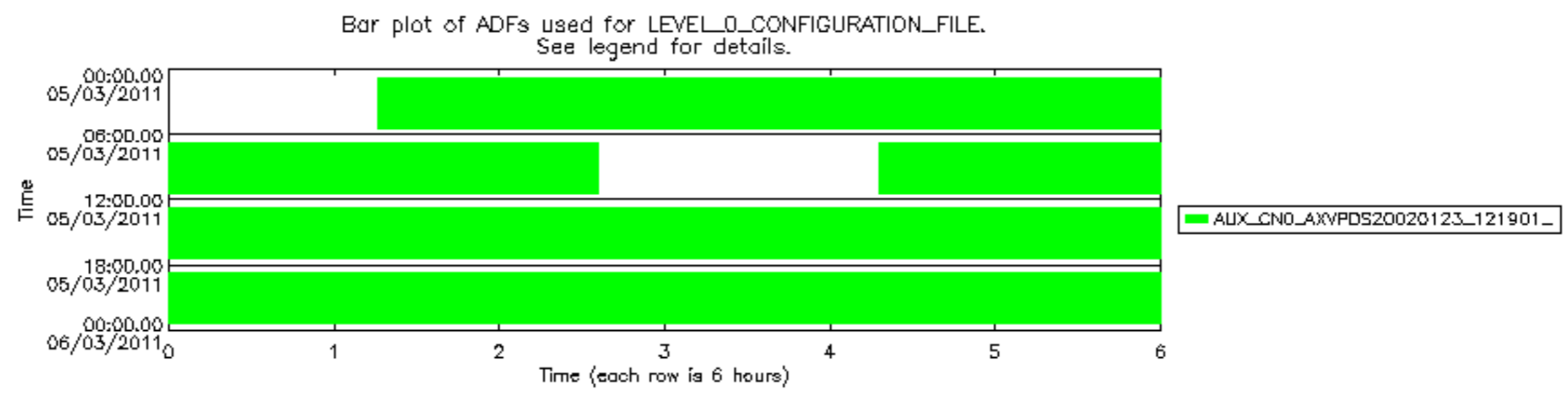






MIPNLOP\_MIPSOUPAC\_aux\_fields\_igm\_cal, channel statistics plot  
 Colour indicates value.





Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

