

## 0. SCIAMACHY Daily Report for Level 0 products

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## 0.1 General Info

This report contains a daily analysis on parameters extracted from SCIAMACHY Level 0 data (the SCI\_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                           | v1.4 20100407                            |
| Time of report generation                | 21MAY2010 09:07:49                       |
| Data source version                      | <Any version>                            |
| Processing scope for products            | 08MAR2010 00:00:00 to 09MAR2010 00:00:00 |
| Start time of first product within scope | 08MAR2010 00:40:36                       |
| Stop time of last product within scope   | 09MAR2010 00:09:38                       |
| Total number of Level 0 products         | 15                                       |
| Number of Level 0 products with errors   | 0                                        |

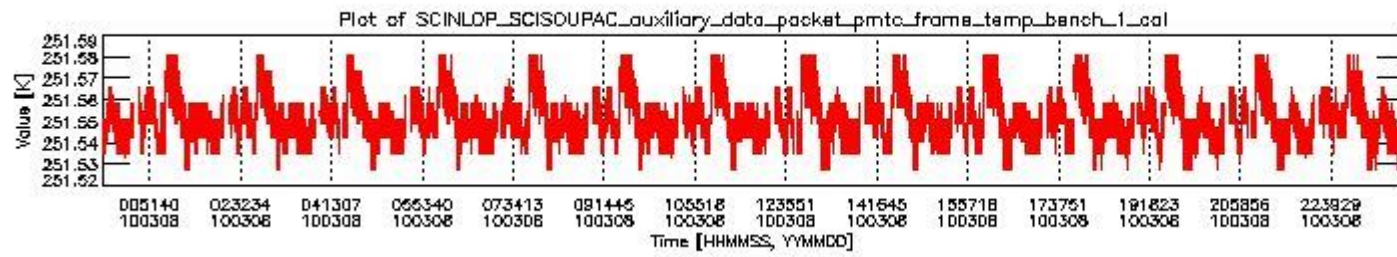
### 0.1.2 Summary per product

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

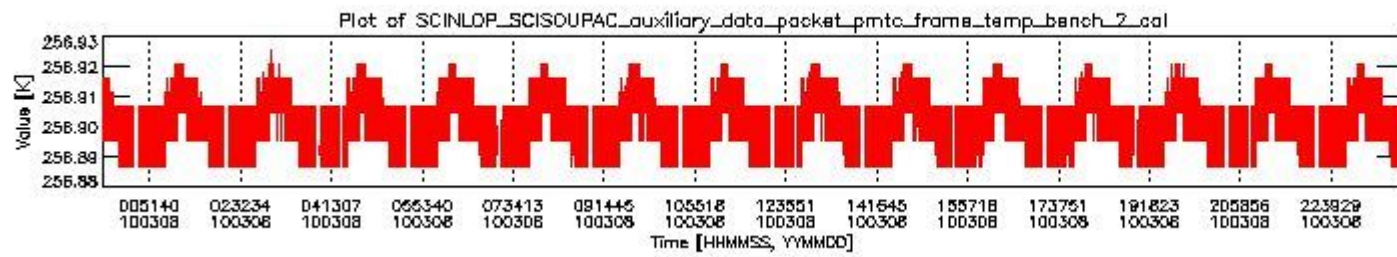
| #  | Product name                                                   | Start time         | Stop time          | Prod err | ISP err sign | ISP miss sign | ISP disc sign | rs sign |
|----|----------------------------------------------------------------|--------------------|--------------------|----------|--------------|---------------|---------------|---------|
| 0  | SCI_NL__OPNPDE20100308_004036_000055282087_00288_41925_1033.N1 | 08MAR2010 00:40:36 | 08MAR2010 02:12:44 | 0        | 0            | 0             | 0             | 0       |
| 1  | SCI_NL__OPNPDE20100308_021945_000043632087_00289_41926_1034.N1 | 08MAR2010 02:19:45 | 08MAR2010 03:32:28 | 0        | 0            | 0             | 0             | 0       |
| 2  | SCI_NL__OPNPDE20100308_033119_000061732087_00290_41927_1035.N1 | 08MAR2010 03:31:19 | 08MAR2010 05:14:12 | 0        | 0            | 0             | 0             | 0       |
| 3  | SCI_NL__OPNPDE20100308_051412_000060232087_00291_41928_1036.N1 | 08MAR2010 05:14:12 | 08MAR2010 06:54:35 | 0        | 0            | 0             | 0             | 0       |
| 4  | SCI_NL__OPNPDK20100308_065339_000040452087_00292_41929_4281.N1 | 08MAR2010 06:53:39 | 08MAR2010 08:01:03 | 0        | 0            | 0             | 0             | 0       |
| 5  | SCI_NL__OPNPDK20100308_080008_000062722087_00293_41930_4282.N1 | 08MAR2010 08:00:08 | 08MAR2010 09:44:39 | 0        | 0            | 0             | 0             | 0       |
| 6  | SCI_NL__OPNPDK20100308_094343_000059112087_00294_41931_4283.N1 | 08MAR2010 09:43:43 | 08MAR2010 11:22:14 | 0        | 0            | 0             | 0             | 0       |
| 7  | SCI_NL__OPNPDK20100308_112118_000060232087_00295_41932_4284.N1 | 08MAR2010 11:21:18 | 08MAR2010 13:01:41 | 0        | 0            | 0             | 0             | 0       |
| 8  | SCI_NL__OPNPDK20100308_130045_000060352087_00296_41933_4285.N1 | 08MAR2010 13:00:45 | 08MAR2010 14:41:21 | 0        | 0            | 0             | 0             | 0       |
| 9  | SCI_NL__OPNPDK20100308_144025_000058982087_00297_41934_4286.N1 | 08MAR2010 14:40:25 | 08MAR2010 16:18:43 | 0        | 0            | 0             | 0             | 0       |
| 10 | SCI_NL__OPNPDK20100308_161747_000058942087_00298_41935_4287.N1 | 08MAR2010 16:17:47 | 08MAR2010 17:56:02 | 0        | 0            | 0             | 0             | 0       |
| 11 | SCI_NL__OPNPDK20100308_175521_000059122087_00299_41936_4288.N1 | 08MAR2010 17:55:21 | 08MAR2010 19:33:53 | 0        | 0            | 0             | 0             | 0       |
| 12 | SCI_NL__OPNPDE20100308_193353_000039352087_00300_41937_1037.N1 | 08MAR2010 19:33:53 | 08MAR2010 20:39:28 | 0        | 0            | 0             | 0             | 0       |
| 13 | SCI_NL__OPNPDE20100308_204613_000061672087_00300_41937_1038.N1 | 08MAR2010 20:46:13 | 08MAR2010 22:29:01 | 0        | 0            | 0             | 0             | 0       |
| 14 | SCI_NL__OPNPDE20100308_222817_000060822087_00301_41938_1039.N1 | 08MAR2010 22:28:17 | 09MAR2010 00:09:38 | 0        | 0            | 0             | 0             | 0       |

## 0.2 Product Quality Indicators

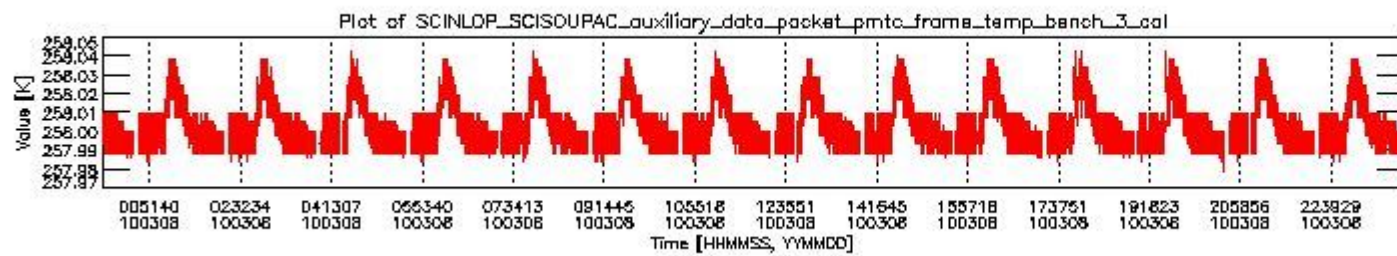
This section shows information about product quality, currently temperatures.



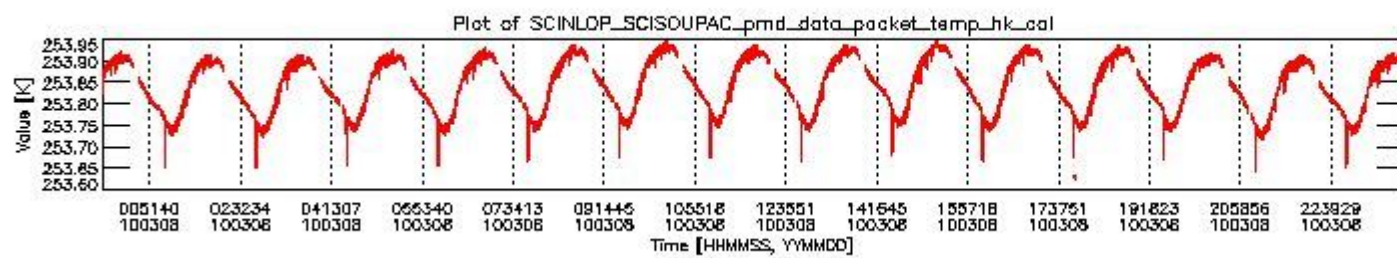
sciamachy\_daily\_report\_level0\_Any\_version\_20100308\_0.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100308\_1.PNG

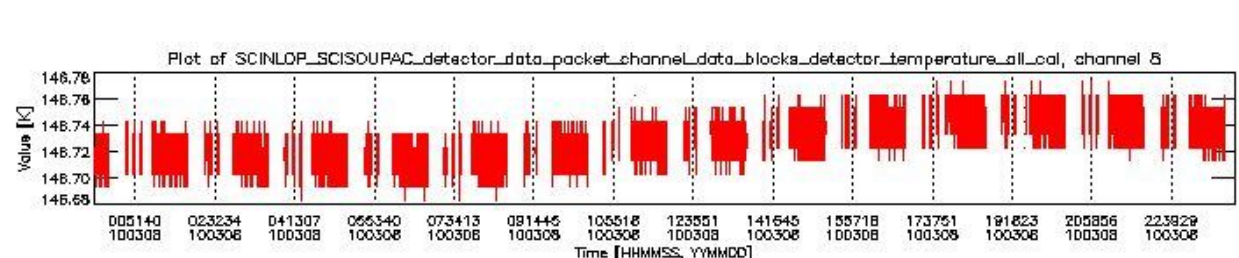
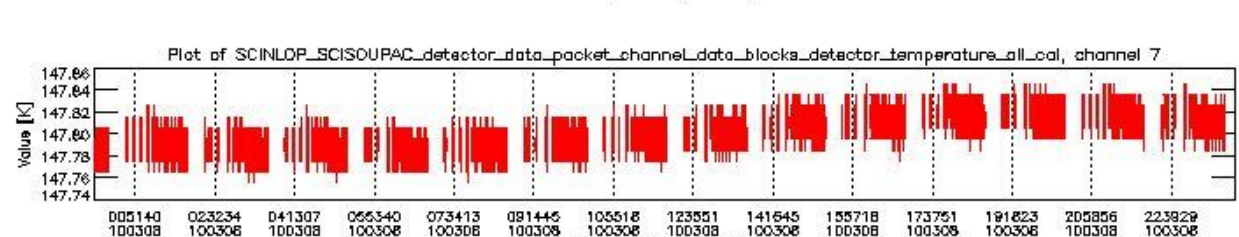
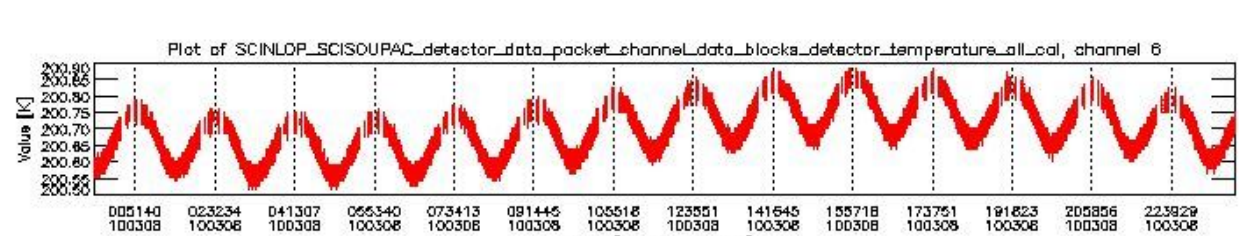
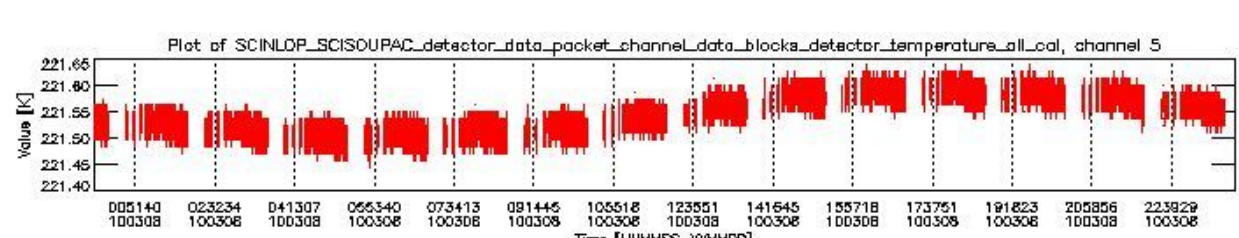
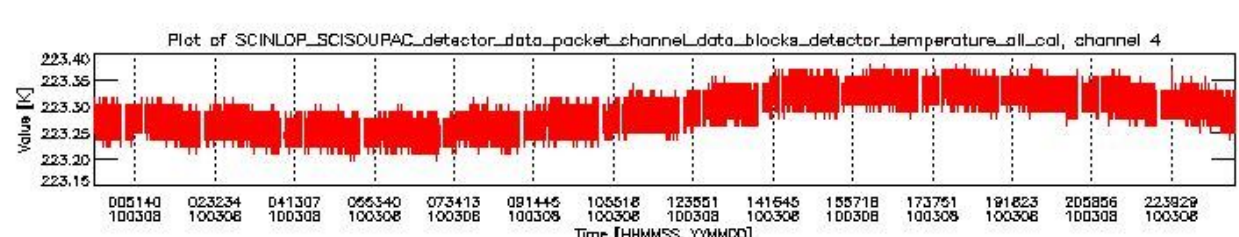
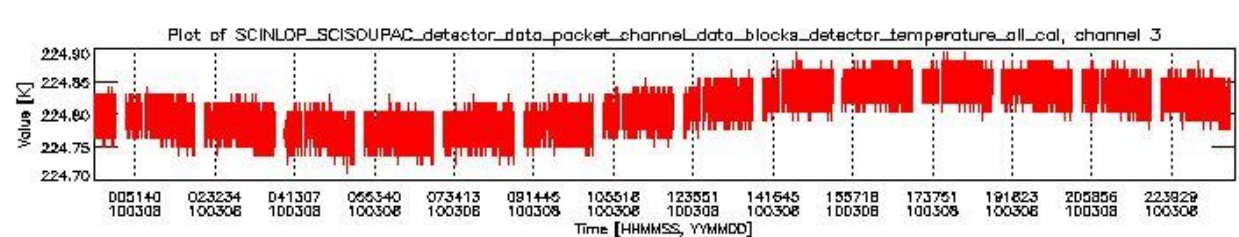
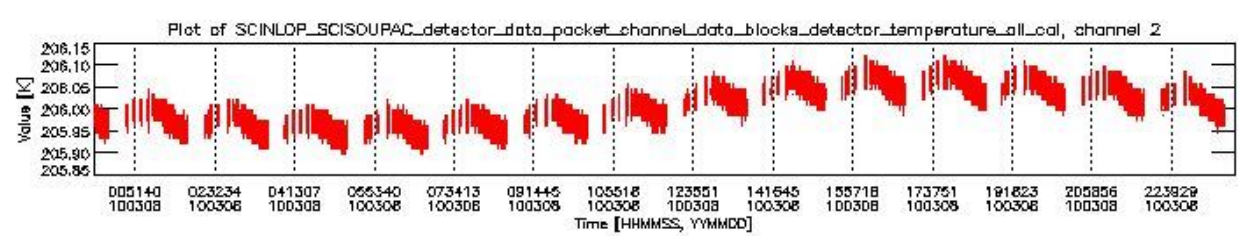
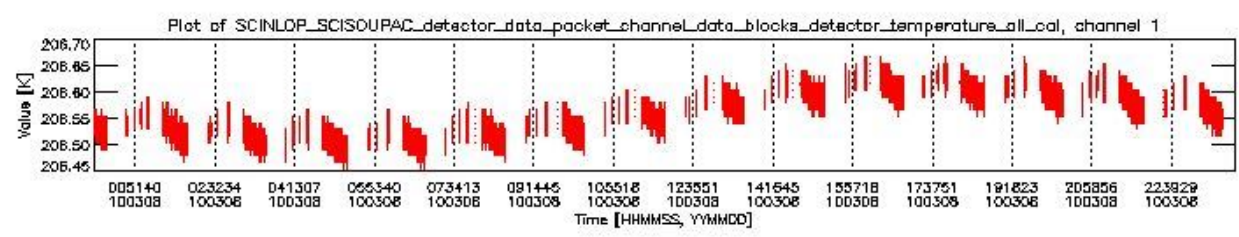


sciamachy\_daily\_report\_level0\_Any\_version\_20100308\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100308\_3.PNG



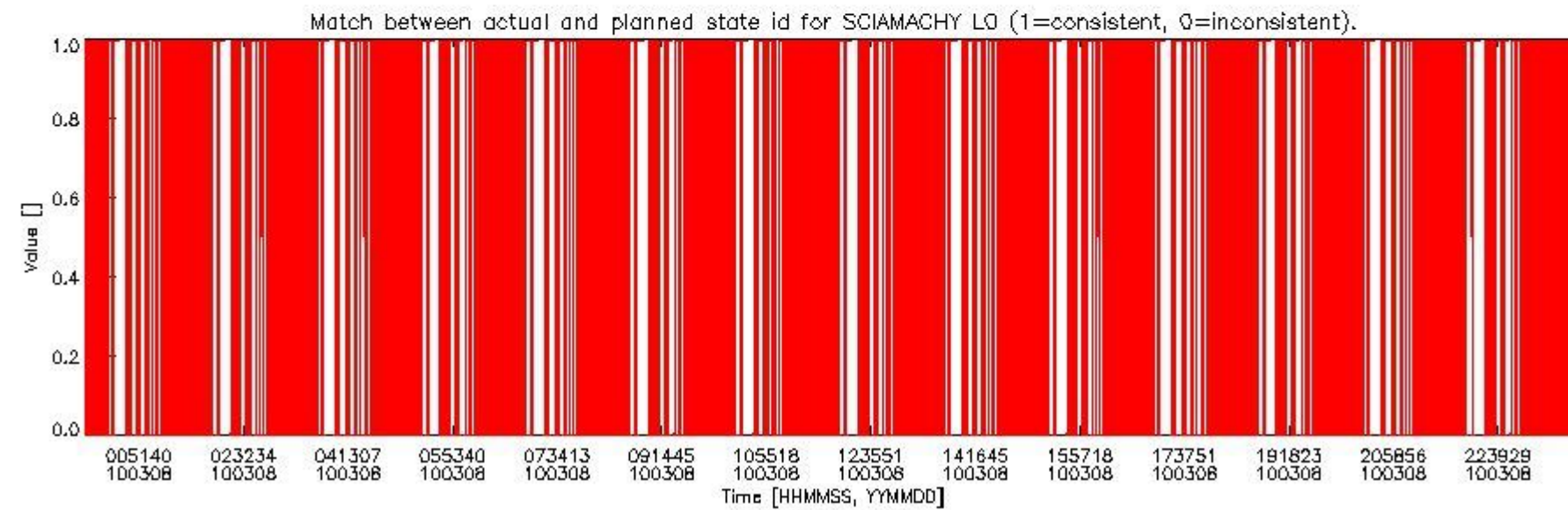
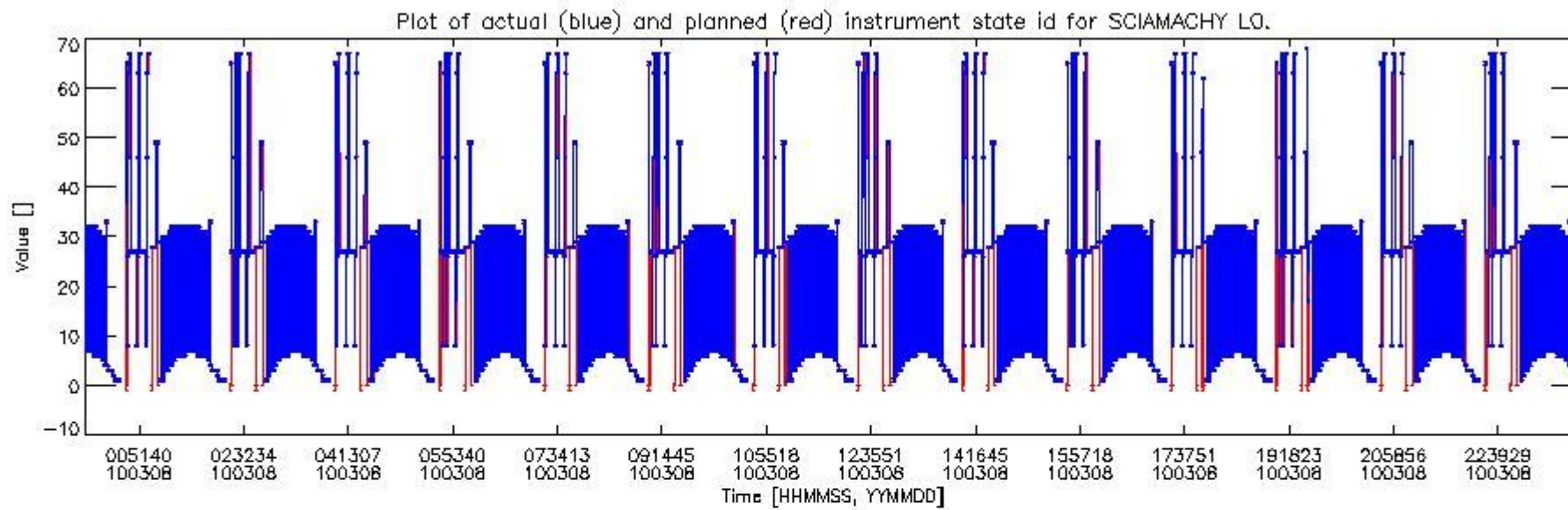


### 0.3 State monitoring

The following section shows a comparison of modelled instrument state (as calculated by the DMOP planning files and using CTI tables to derive state) and the measured state variables from the L0 product (the SCINL0P\_SCISOUPAC\_state\_id variable).

Total number of faults: **75162**

| #   | Actual time               | Actual value | Planned time              | Planned value |
|-----|---------------------------|--------------|---------------------------|---------------|
| 0   | 08MAR2010 00:00:00.109438 | 7            | 08MAR2010 00:00:00.109438 | 32            |
| 1   | 08MAR2010 00:00:00.359438 | 7            | 08MAR2010 00:00:00.359438 | 32            |
| 2   | 08MAR2010 00:00:00.609438 | 7            | 08MAR2010 00:00:00.609438 | 32            |
| 3   | 08MAR2010 00:00:00.859438 | 7            | 08MAR2010 00:00:00.859438 | 32            |
| 4   | 08MAR2010 00:00:01.109438 | 7            | 08MAR2010 00:00:01.109438 | 32            |
| 5   | 08MAR2010 00:00:01.359438 | 7            | 08MAR2010 00:00:01.359438 | 32            |
| 6   | 08MAR2010 00:00:01.609438 | 7            | 08MAR2010 00:00:01.609438 | 32            |
| 7   | 08MAR2010 00:00:01.734438 | 7            | 08MAR2010 00:00:01.734438 | 32            |
| 8   | 08MAR2010 00:00:01.859438 | 7            | 08MAR2010 00:00:01.859438 | 32            |
| 9   | 08MAR2010 00:00:02.109438 | 7            | 08MAR2010 00:00:02.109438 | 32            |
| 10  | 08MAR2010 00:00:02.359438 | 7            | 08MAR2010 00:00:02.359438 | 32            |
| 11  | 08MAR2010 00:00:02.609438 | 7            | 08MAR2010 00:00:02.609438 | 32            |
| 12  | 08MAR2010 00:00:02.859438 | 7            | 08MAR2010 00:00:02.859438 | 32            |
| 13  | 08MAR2010 00:00:03.109438 | 7            | 08MAR2010 00:00:03.109438 | 32            |
| 14  | 08MAR2010 00:00:55.293040 | 32           | 08MAR2010 00:00:55.293040 | 7             |
| 15  | 08MAR2010 00:00:55.918040 | 32           | 08MAR2010 00:00:55.918040 | 7             |
| 16  | 08MAR2010 00:00:56.293040 | 32           | 08MAR2010 00:00:56.293040 | 7             |
| 17  | 08MAR2010 00:00:56.668040 | 32           | 08MAR2010 00:00:56.668040 | 7             |
| 18  | 08MAR2010 00:00:57.230540 | 32           | 08MAR2010 00:00:57.230540 | 7             |
| 19  | 08MAR2010 00:00:57.605540 | 32           | 08MAR2010 00:00:57.605540 | 7             |
| ... | ...                       | ...          | ...                       | ...           |



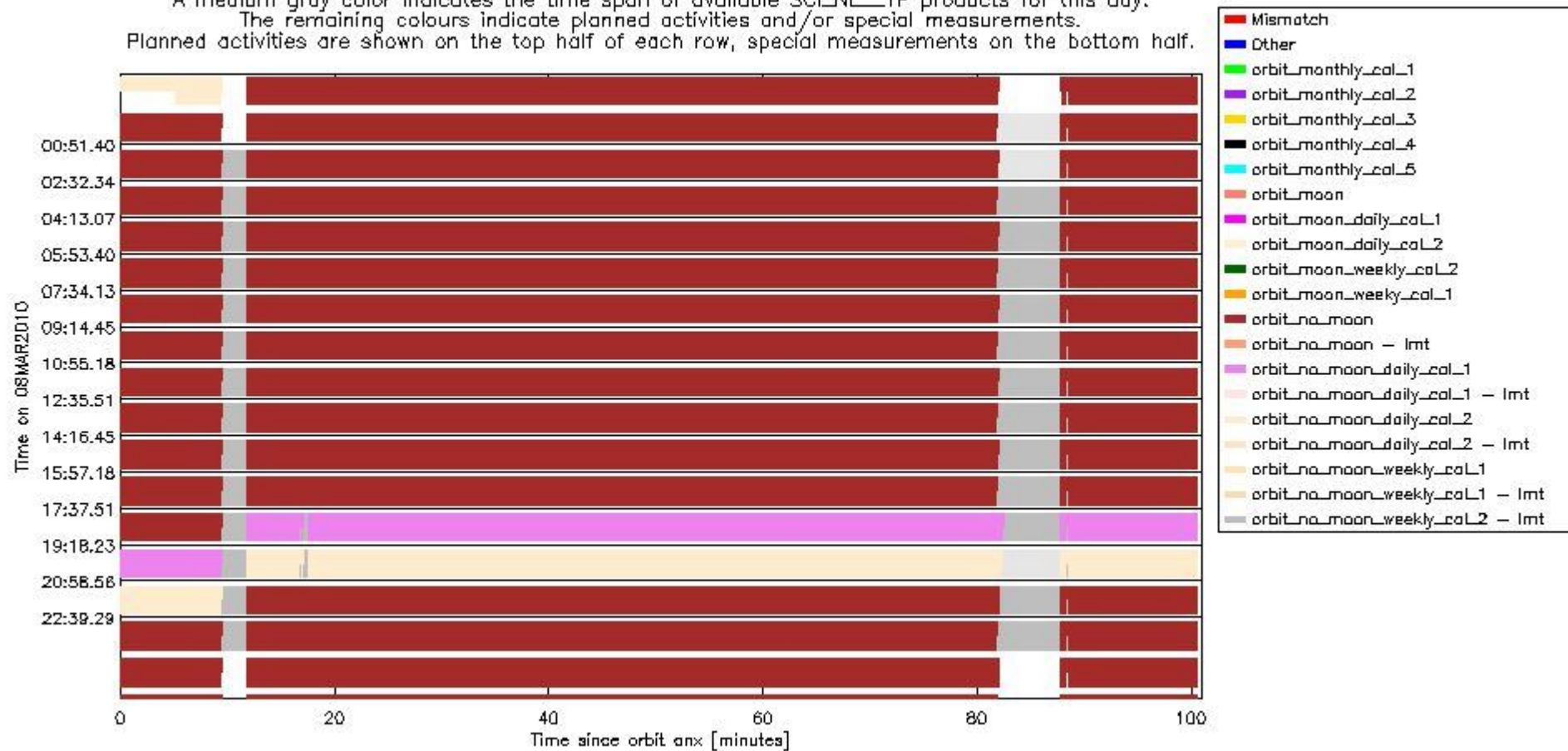
sciamachy\_daily\_report\_level0\_Any\_version\_20100308\_5.PNG

This section gives an analysis of the DMOP execution. The execution is monitored by assigning various activities to timeline sequences found in the DMOP file, and by checking where "NEW" datasets are available in SCI\_NL\_\_1P products.

The following plot gives an overview of planned activities and actual state IDs in the Level 0 products. The planning is taken from the DMOP files, and interpreted using information from OSDF files.



Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 08MAR2010.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.



sciamachy\_daily\_report\_level0\_Any\_version\_20100308\_6.PNG

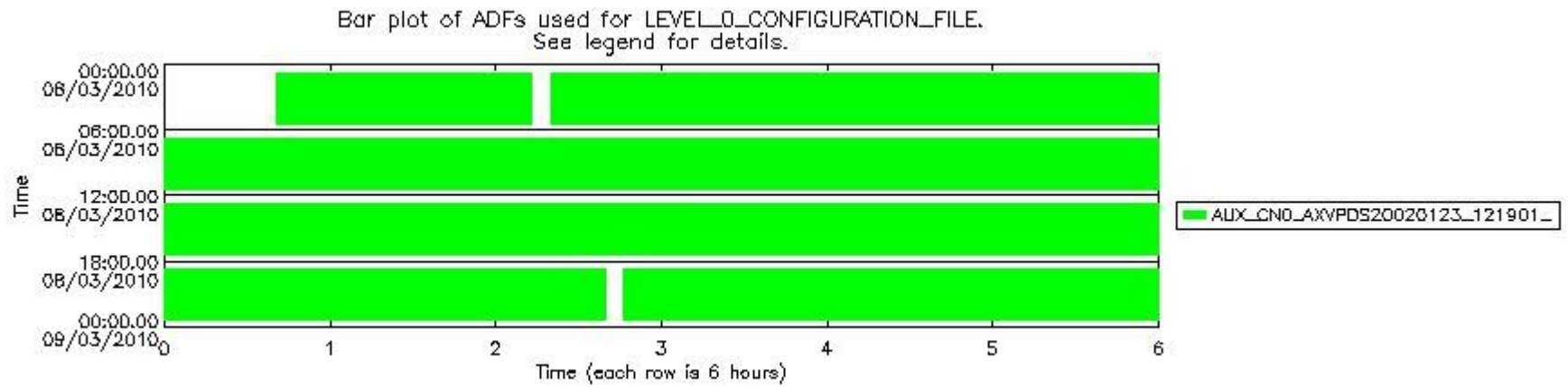
## 0.4 ADF monitoring

This section shows the (variation in) ADFs used for each of the products. It consists of:

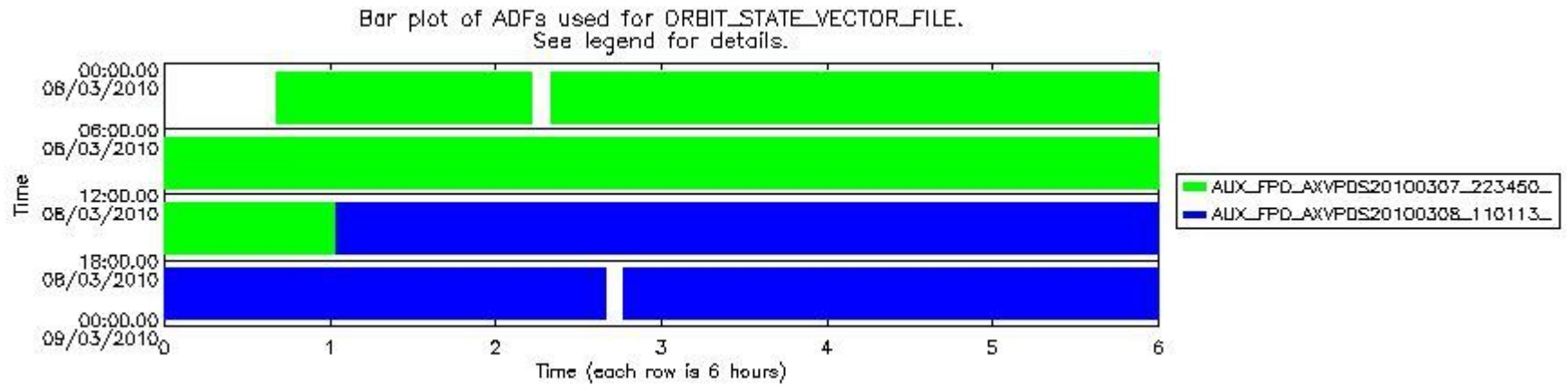
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

If multiple ADFs of a single type were used, these are marked **red** in the table.

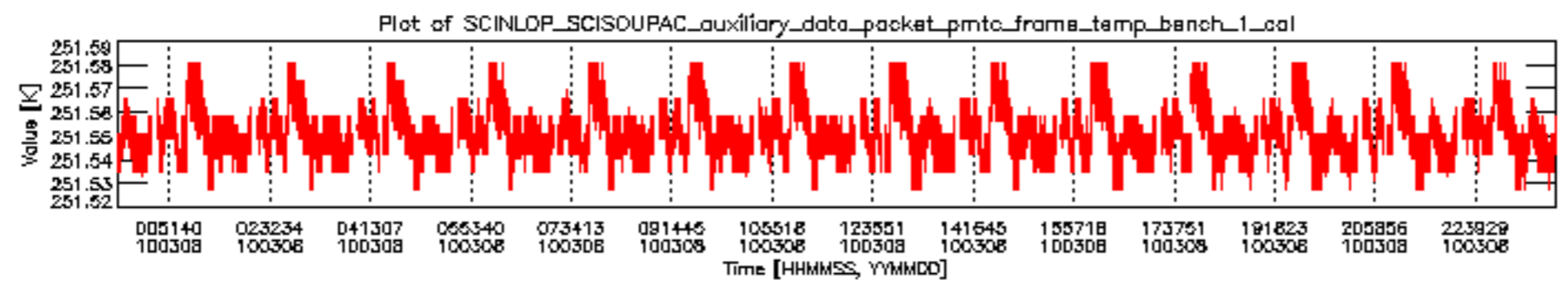
| Number | ADF                                                           |
|--------|---------------------------------------------------------------|
|        | <b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>                       |
| 0      | AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000 |
|        | <b>FPO (ORBIT_STATE_VECTOR_FILE)</b>                          |
| 1      | AUX_FPO_AXVPDS20100307_223450_20100305_191239_20100315_203853 |
| 2      | AUX_FPO_AXVPDS20100308_110113_20100307_195001_20100317_211615 |



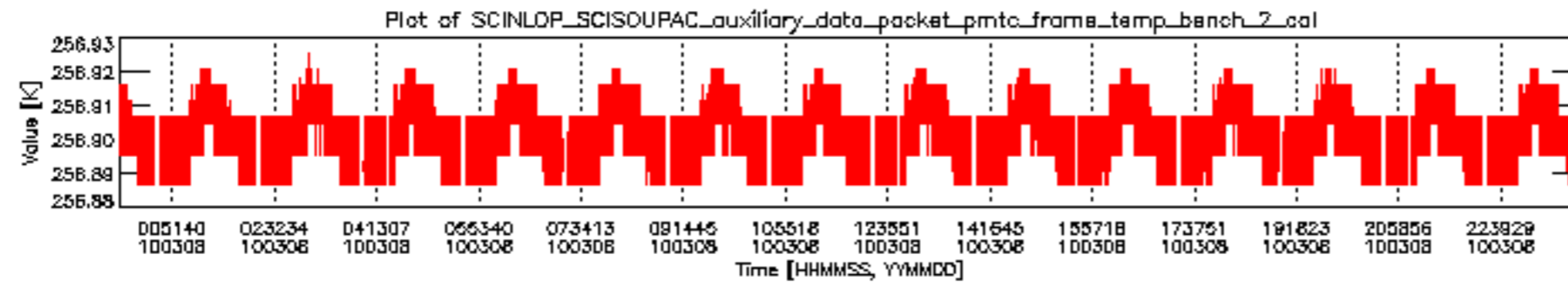
sciamachy\_daily\_report\_level0\_Any\_version\_20100308\_7.PNG

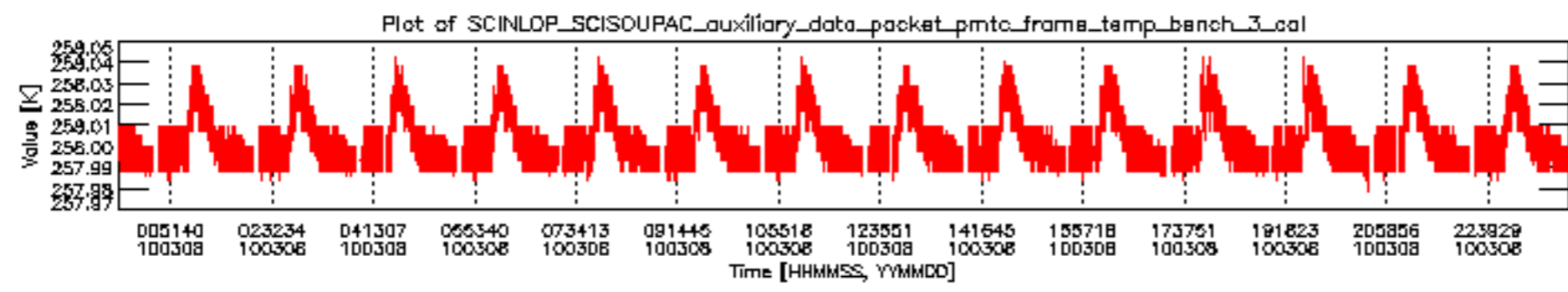


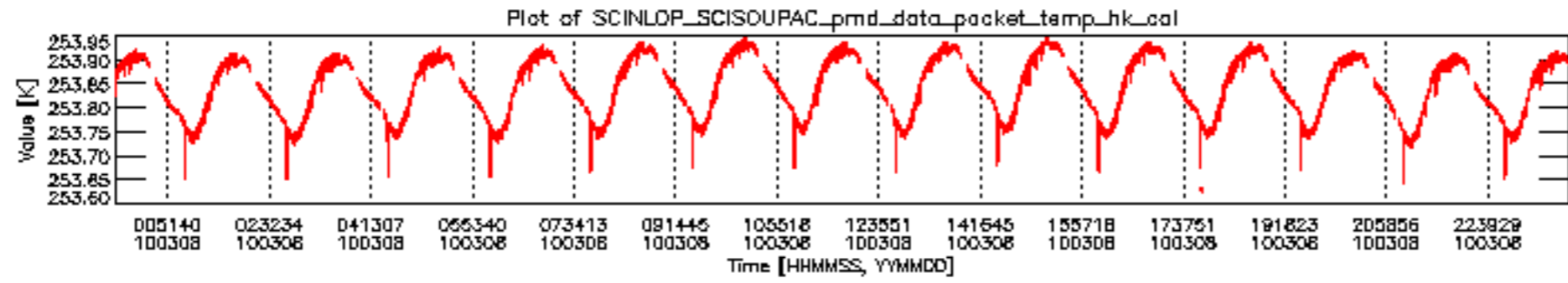
sciamachy\_daily\_report\_level0\_Any\_version\_20100308\_8.PNG

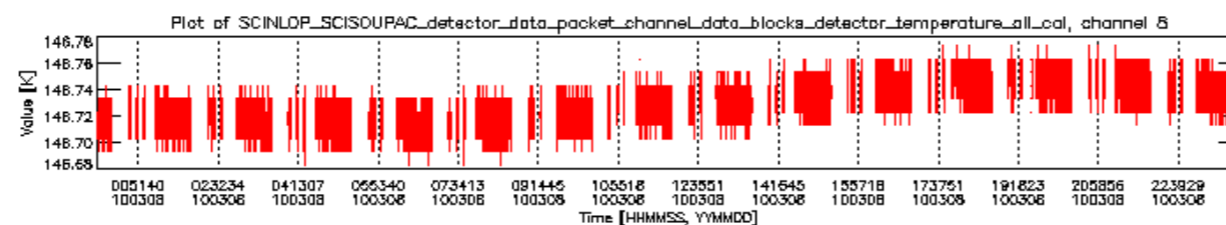
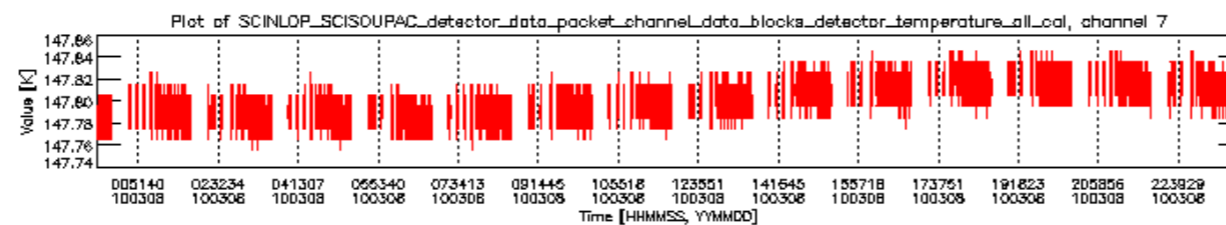
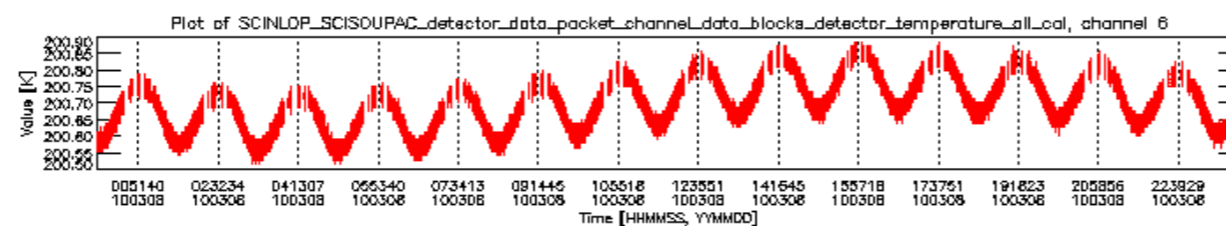
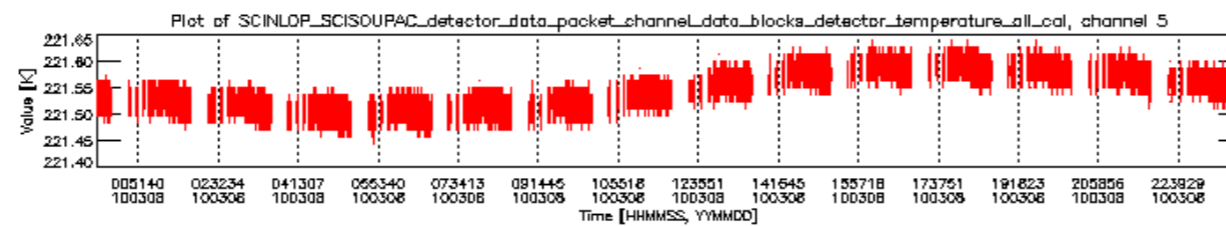
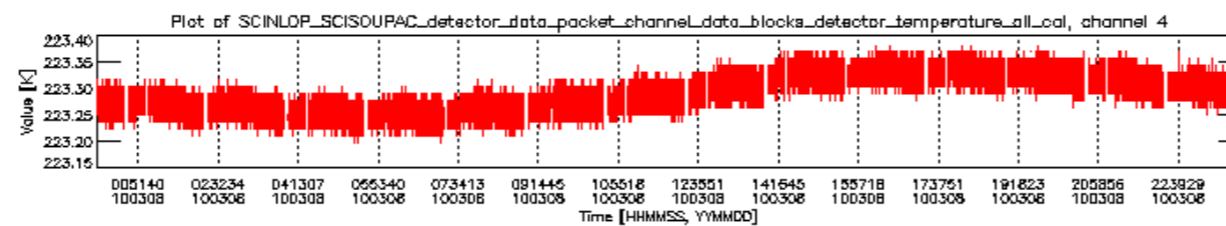
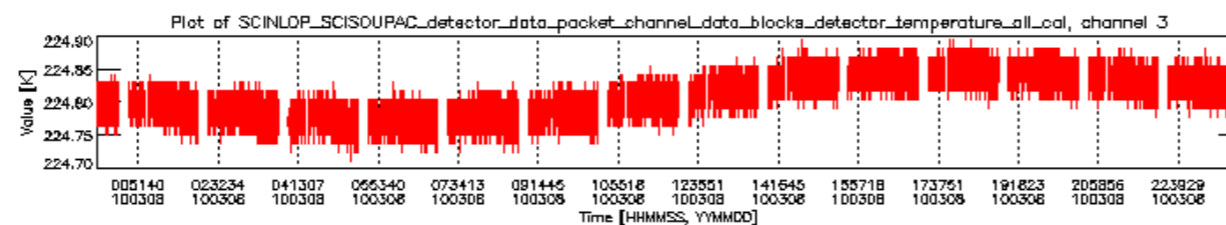
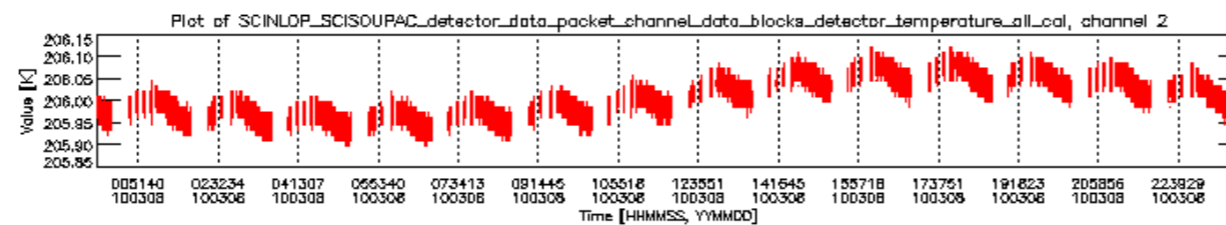
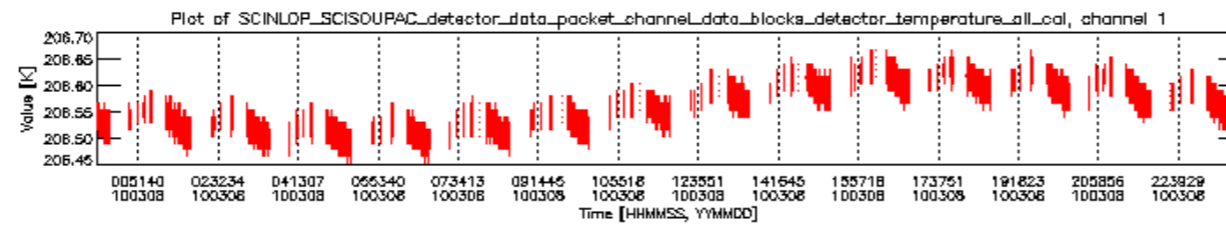




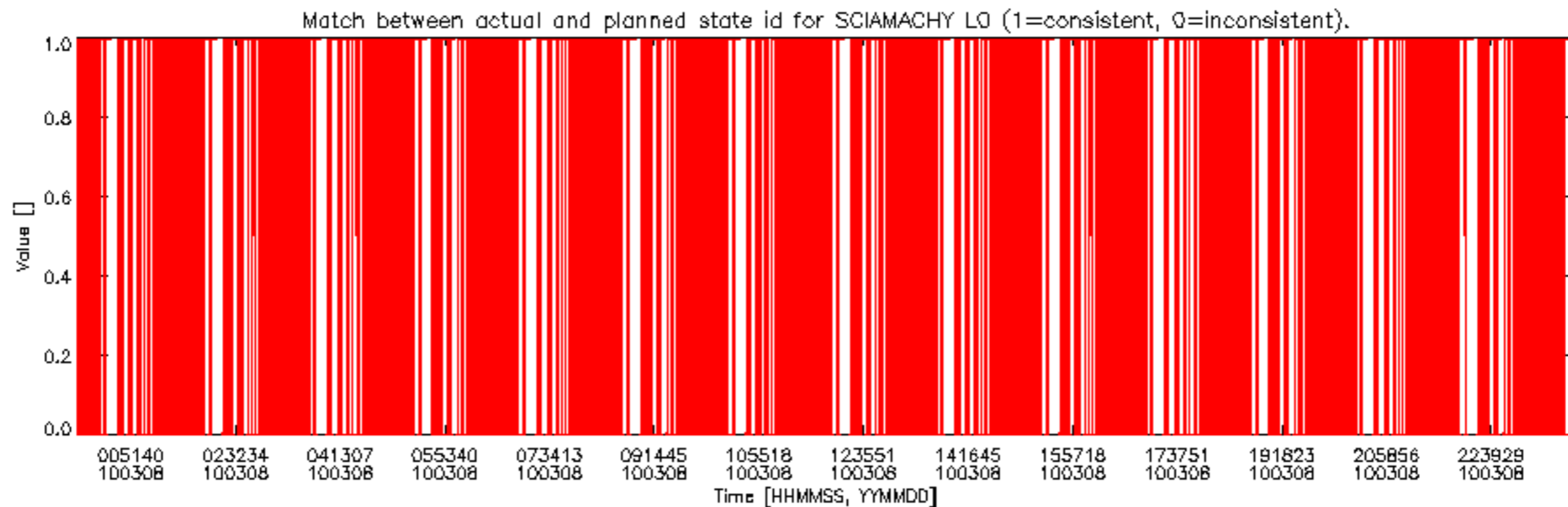
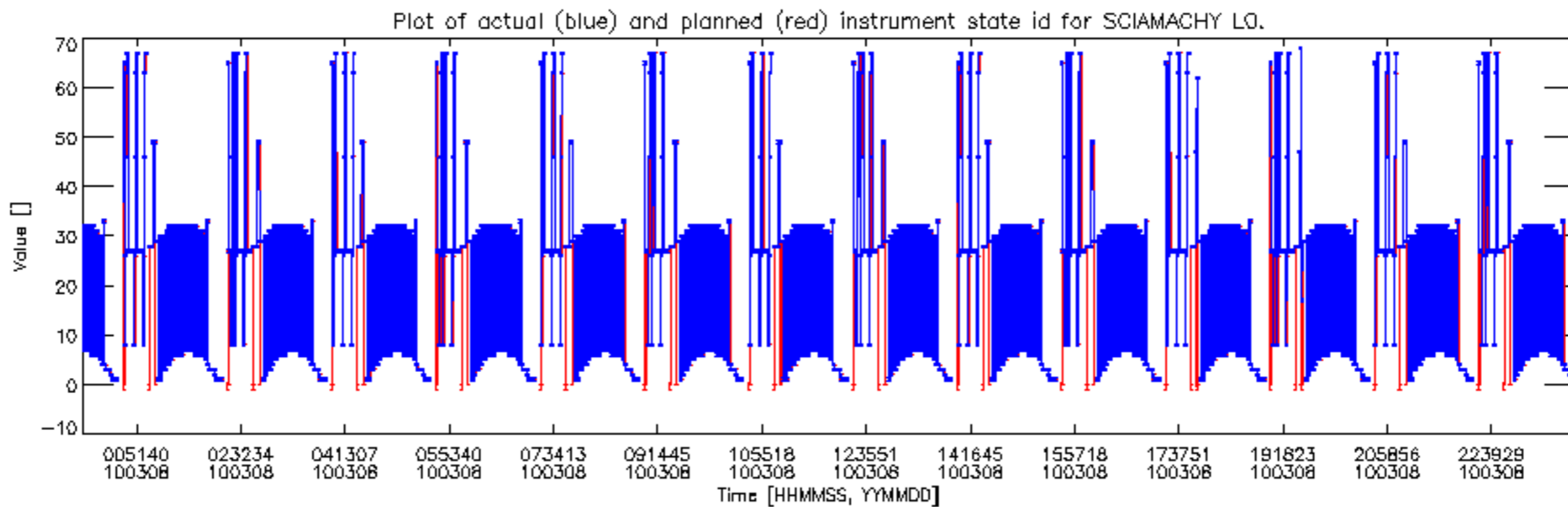




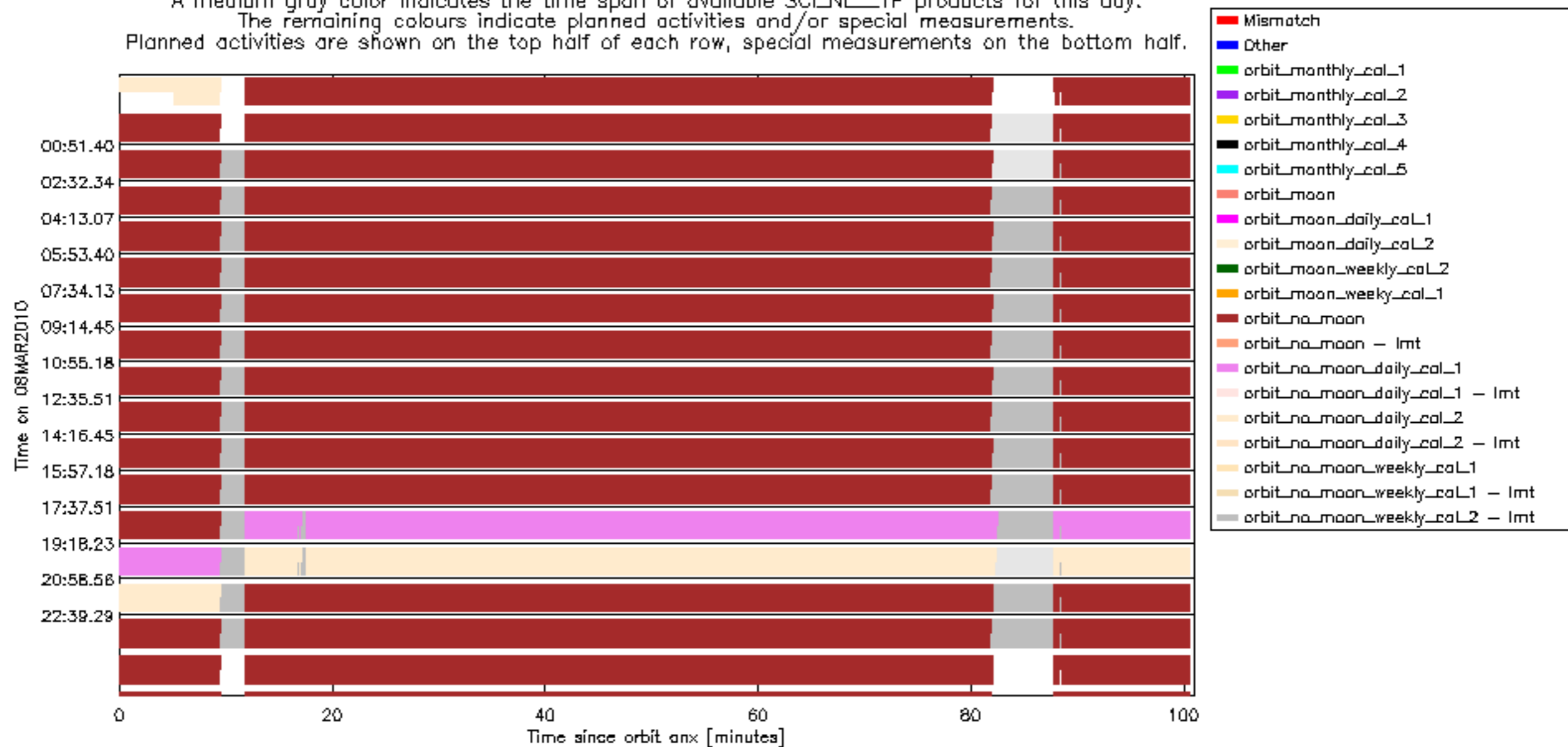


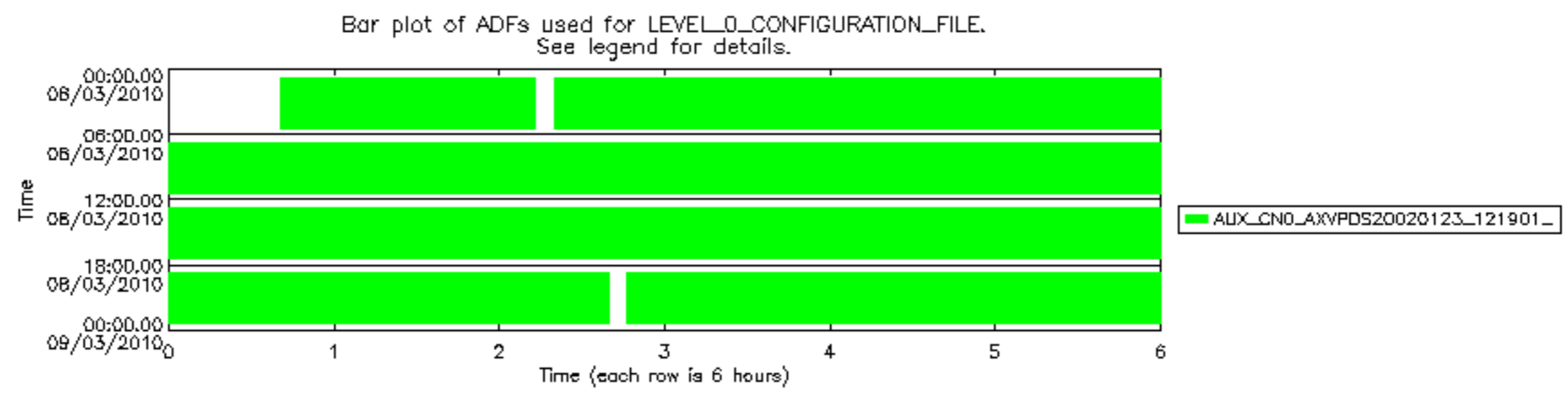




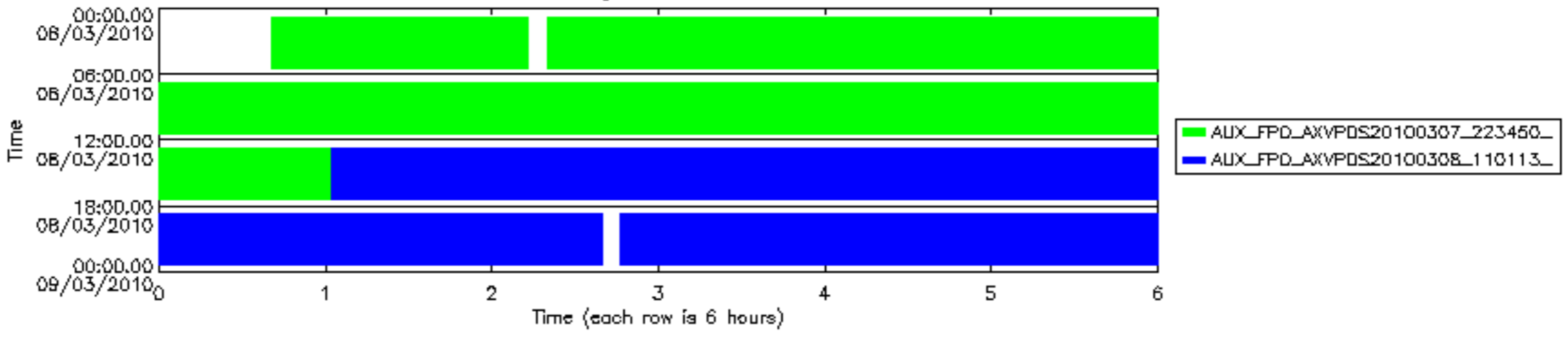


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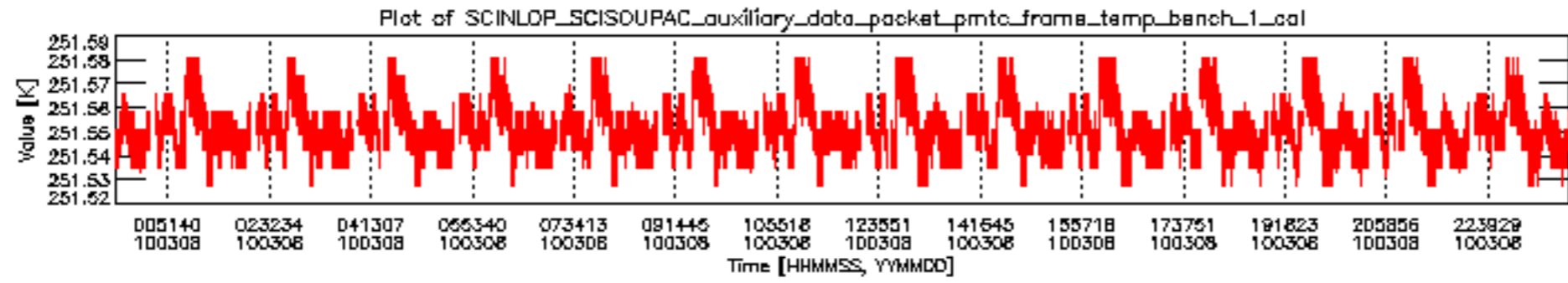


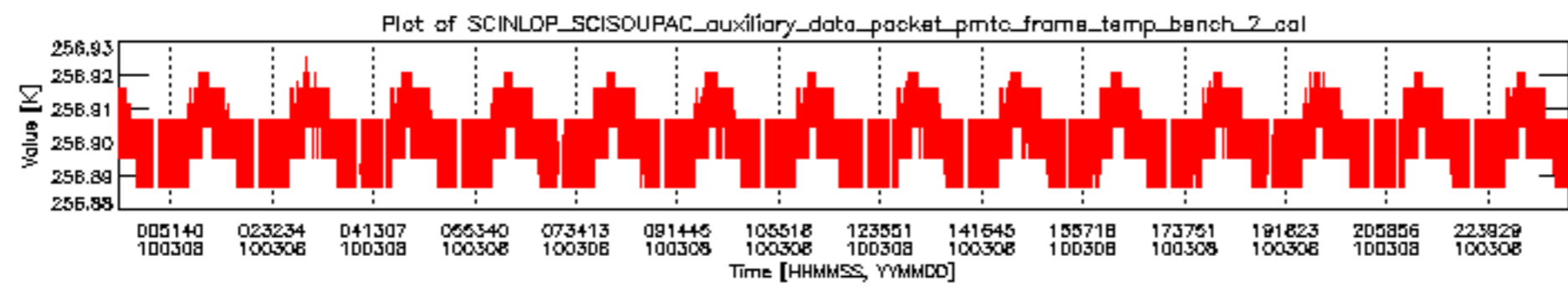


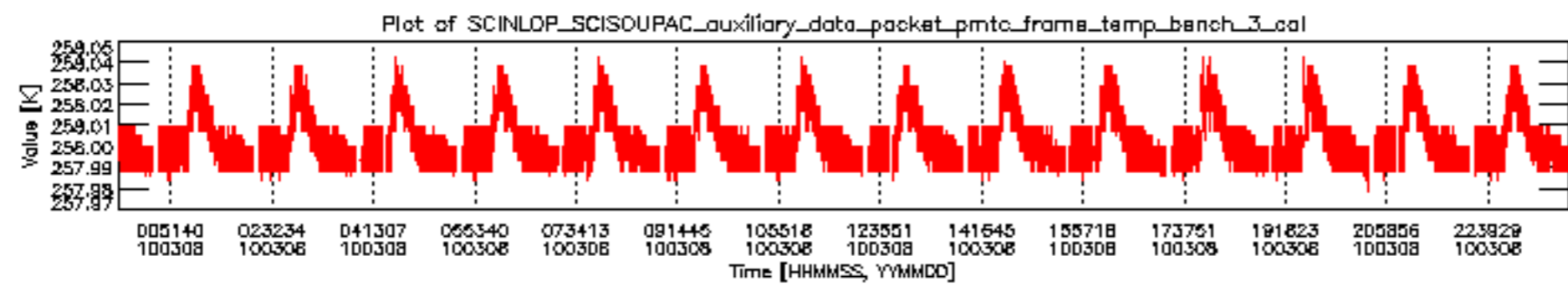
Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

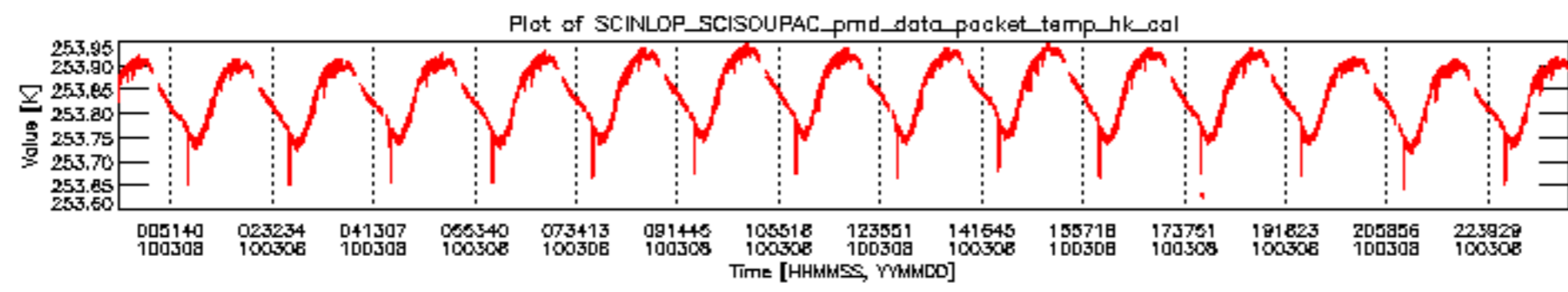




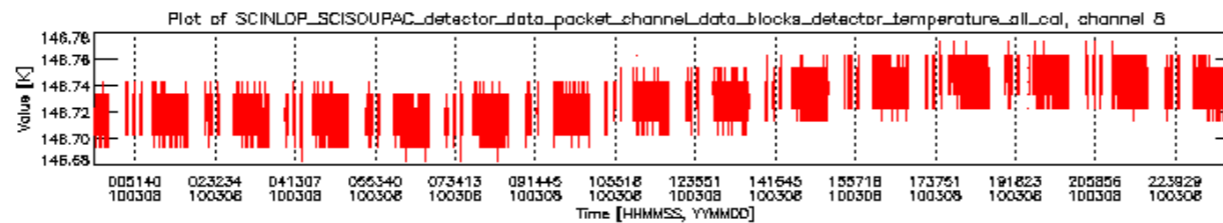
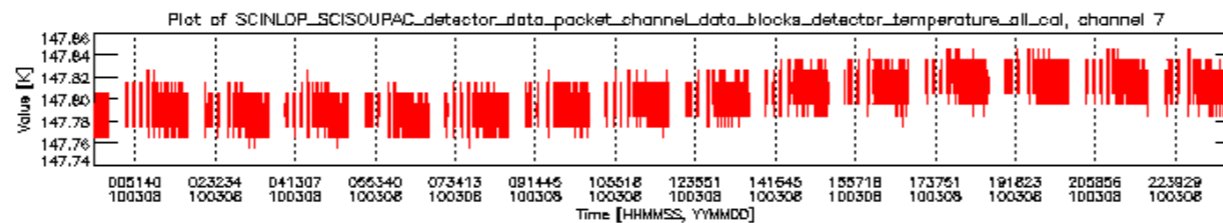
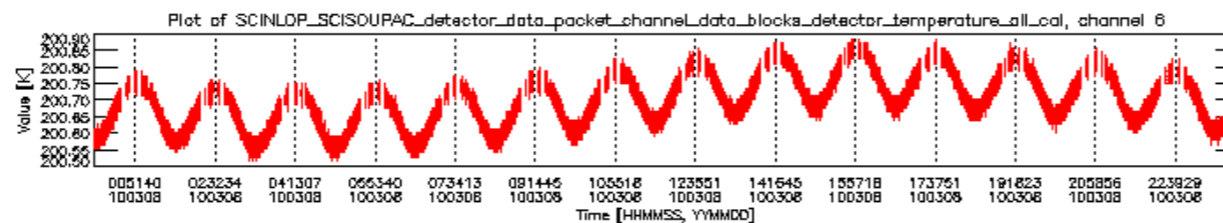
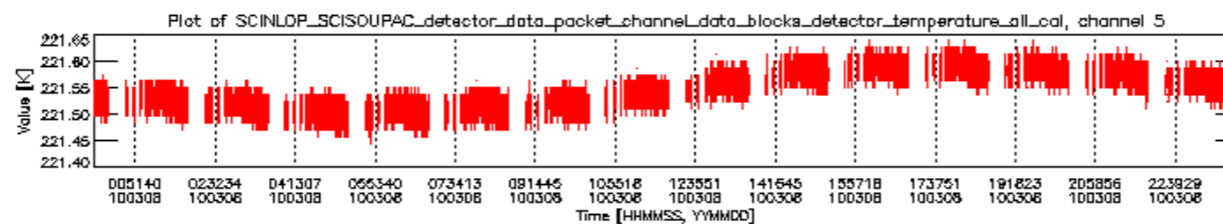
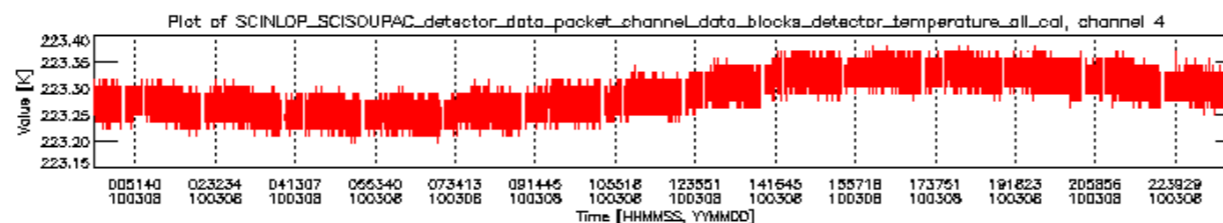
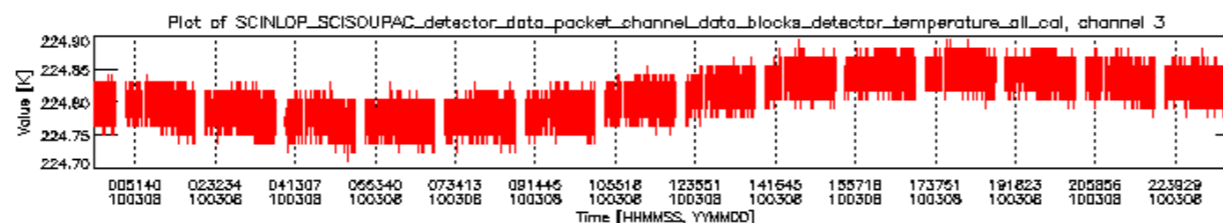
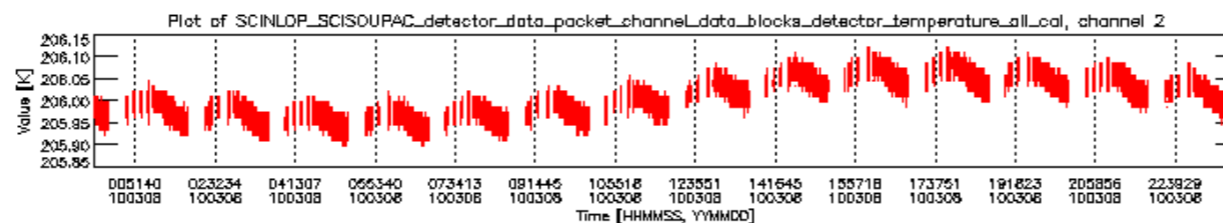
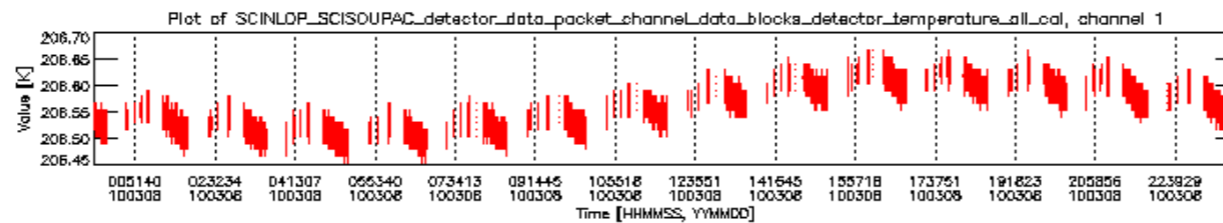


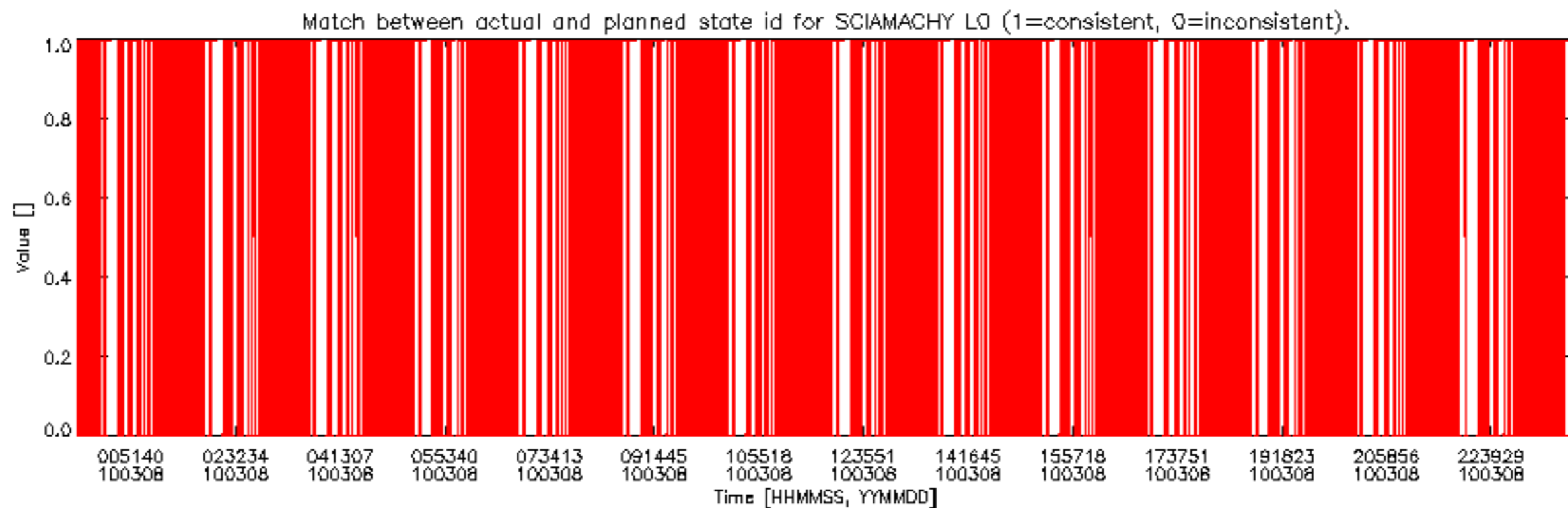
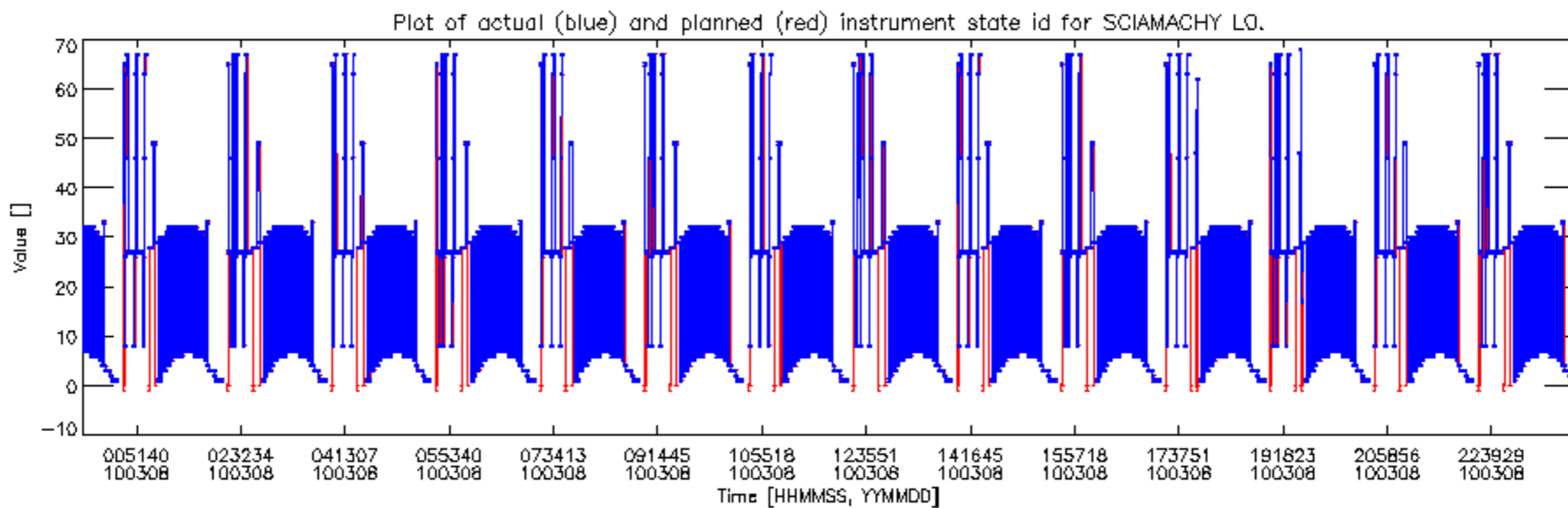












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