

## 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                           | v1.3 20060731                            |
| Time of report generation                | 20MAR2009 05:46:43                       |
| Data source version                      | KSPT_L0/4303-N                           |
| Processing scope for products            | 16MAR2009 00:00:00 to 17MAR2009 00:00:00 |
| Start time of first product within scope | 15MAR2009 23:18:20                       |
| Stop time of last product within scope   | 17MAR2009 00:28:41                       |
| Total number of level 0 products         | 16                                       |
| Number of level 0 products with errors   | 1  |

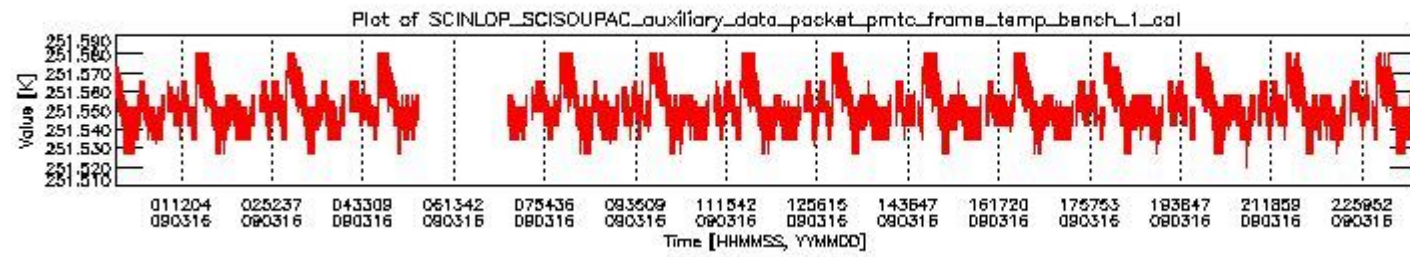
### 0.1.2 Summary per product

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

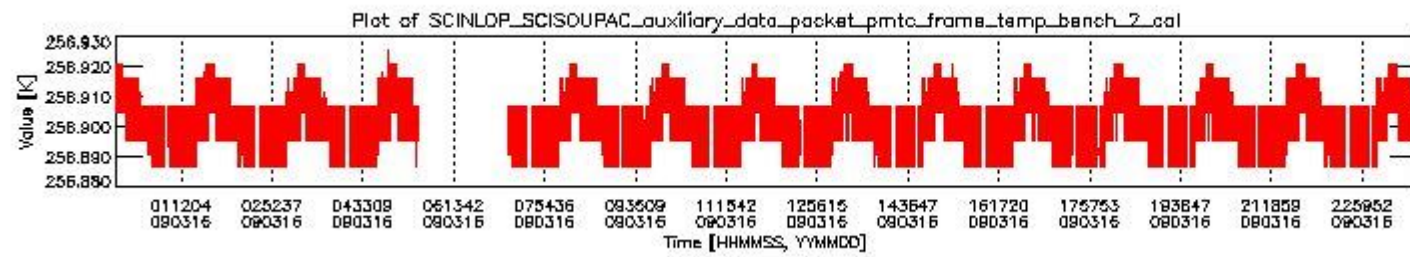
| #  | Product name   | Start time         | Stop time          | Prod err | ISP err sign | ISP miss sign | ISP disc sign | rs sign |
|----|--|--------------------|--------------------|----------|--------------|---------------|---------------|---------|
| 0  | SCI_NL__OPNPDE20090315_231820_000061592077_00187_36814_8679.N1 | 15MAR2009 23:18:20 | 16MAR2009 01:01:00 | 0        | 0            | 0             | 0             | 0       |
| 1  | SCI_NL__OPNPDE20090316_010026_000048102077_00188_36815_8680.N1 | 16MAR2009 01:00:26 | 16MAR2009 02:20:36 | 0        | 0            | 0             | 0             | 0       |
| 2  | SCI_NL__OPNPDE20090316_022036_000055252077_00189_36816_8681.N1 | 16MAR2009 02:20:36 | 16MAR2009 03:52:41 | 0        | 0            | 0             | 0             | 0       |
| 3  | SCI_NL__OPNPDE20090316_035241_000061042077_00190_36817_8682.N1 | 16MAR2009 03:52:41 | 16MAR2009 05:34:25 | 0        | 0            | 0             | 0             | 0       |
| 4  | SCI_NL__OPNPDK20090316_071352_000040572077_00192_36819_0972.N1 | 16MAR2009 07:13:52 | 16MAR2009 08:21:29 | 0        | 0            | 0             | 0             | 0       |
| 5  | SCI_NL__OPNPDK20090316_082021_000062162077_00193_36820_0973.N1 | 16MAR2009 08:20:21 | 16MAR2009 10:03:57 | 0        | 0            | 0             | 0             | 0       |
| 6  | SCI_NL__OPNPDK20090316_100357_000059802077_00194_36821_0974.N1 | 16MAR2009 10:03:57 | 16MAR2009 11:43:36 | 0        | 0            | 0             | 0             | 0       |
| 7  | SCI_NL__OPNPDK20090316_114240_000060232077_00195_36822_0975.N1 | 16MAR2009 11:42:40 | 16MAR2009 13:23:03 | 1        | 0            | 1             | 0             | 0       |
| 8  | SCI_NL__OPNPDK20090316_132059_000059242077_00196_36823_0976.N1 | 16MAR2009 13:20:59 | 16MAR2009 14:59:42 | 0        | 0            | 0             | 0             | 0       |
| 9  | SCI_NL__OPNPDK20090316_145738_000059672077_00197_36824_0977.N1 | 16MAR2009 14:57:38 | 16MAR2009 16:37:05 | 0        | 0            | 0             | 0             | 0       |
| 10 | SCI_NL__OPNPDK20090316_163513_000034412077_00198_36825_0978.N1 | 16MAR2009 16:35:13 | 16MAR2009 17:32:34 | 0        | 0            | 0             | 0             | 0       |
| 11 | SCI_NL__OPNPDK20090316_173234_000026192077_00198_36825_0979.N1 | 16MAR2009 17:32:34 | 16MAR2009 18:16:13 | 0        | 0            | 0             | 0             | 0       |
| 12 | SCI_NL__OPNPDK20090316_181517_000060912077_00199_36826_0980.N1 | 16MAR2009 18:15:17 | 16MAR2009 19:56:49 | 0        | 0            | 0             | 0             | 0       |
| 13 | SCI_NL__OPNPDE20090316_195512_000038112077_00200_36827_8683.N1 | 16MAR2009 19:55:12 | 16MAR2009 20:58:44 | 0        | 0            | 0             | 0             | 0       |
| 14 | SCI_NL__OPNPDE20090316_210516_000062112077_00200_36827_8684.N1 | 16MAR2009 21:05:16 | 16MAR2009 22:48:47 | 0        | 0            | 0             | 0             | 0       |
| 15 | SCI_NL__OPNPDE20090316_224719_000060822077_00201_36828_8685.N1 | 16MAR2009 22:47:19 | 17MAR2009 00:28:41 | 0        | 0            | 0             | 0             | 0       |

## 0.2 Product Quality Indicators

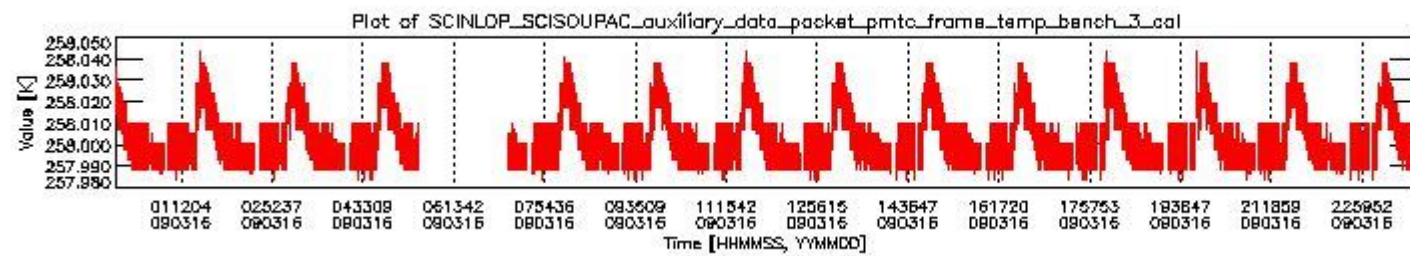
This section shows information about product quality, currently temperatures.



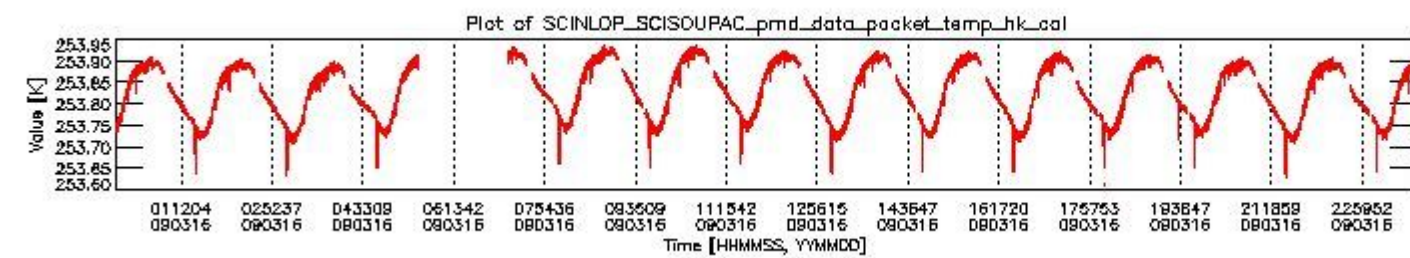
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090316\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090316\_1.PNG

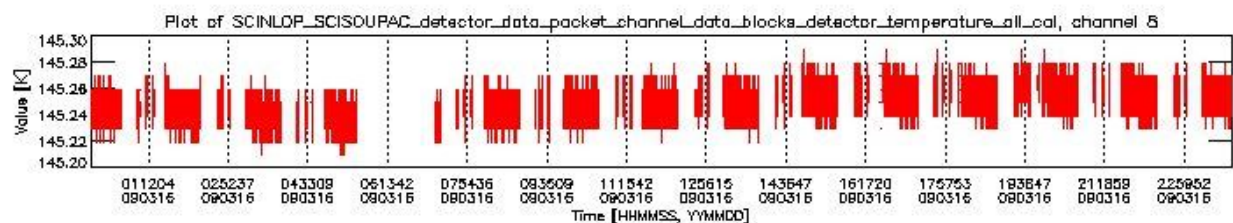
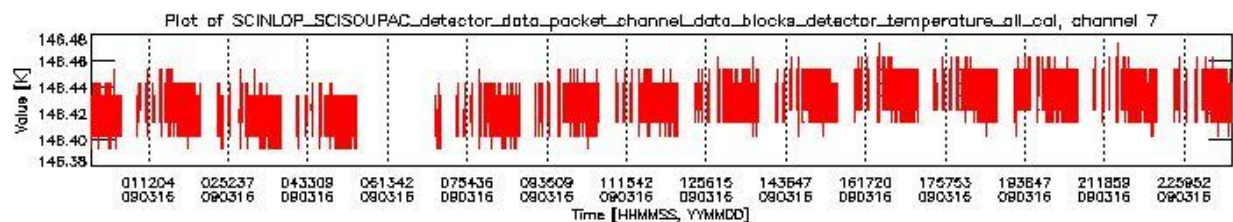
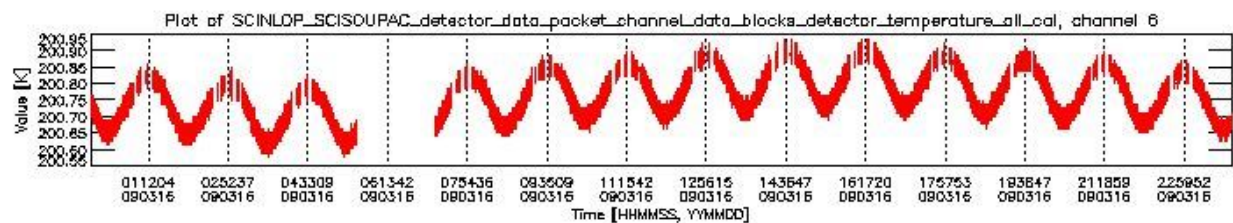
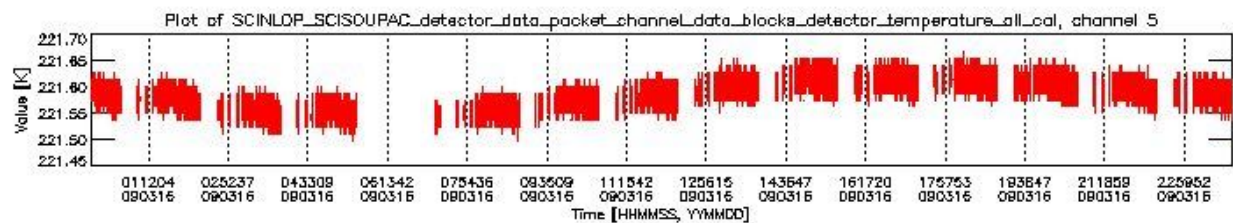
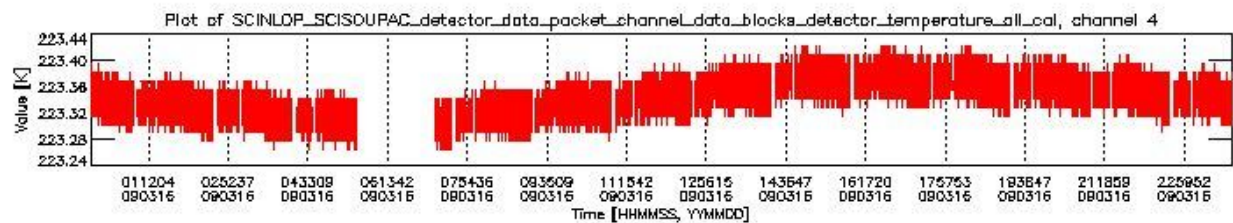
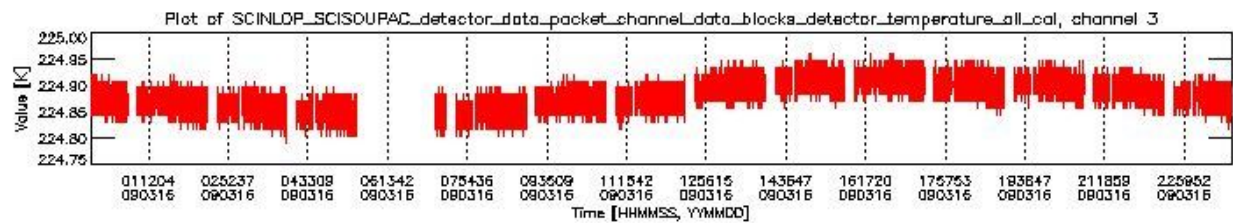
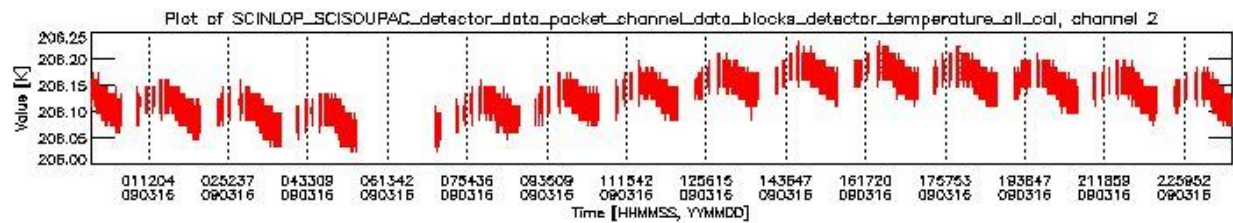
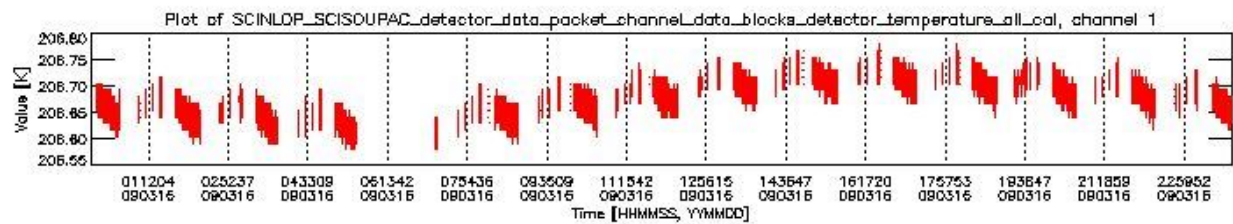


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090316\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090316\_3.PNG



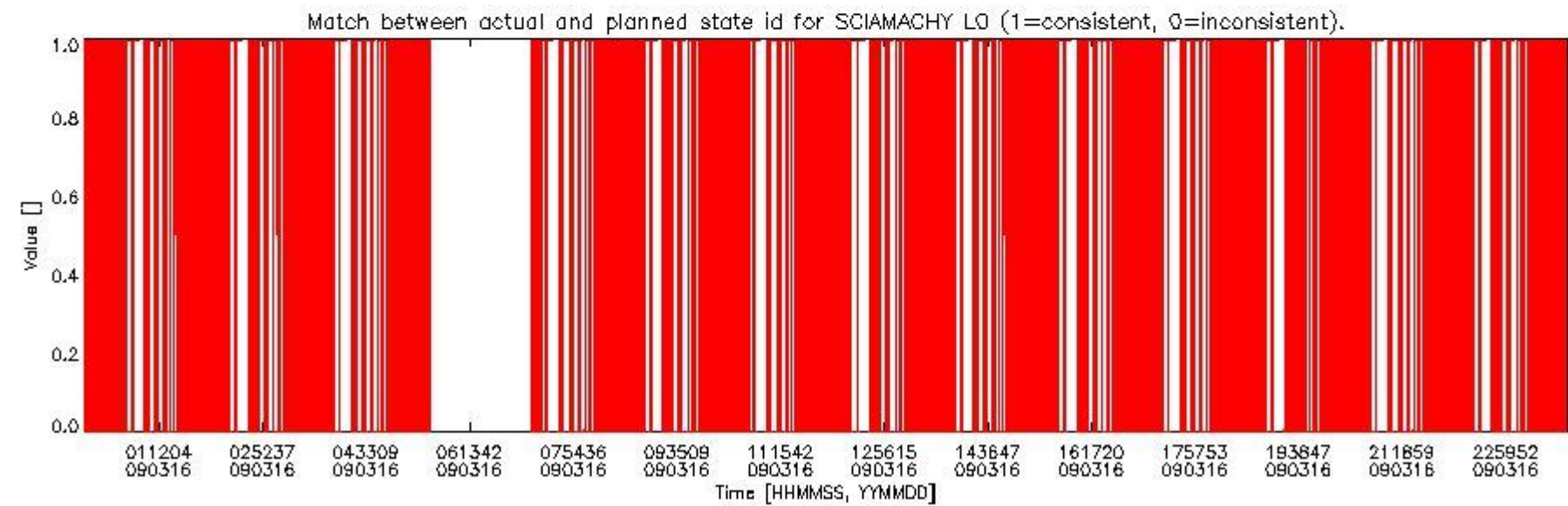
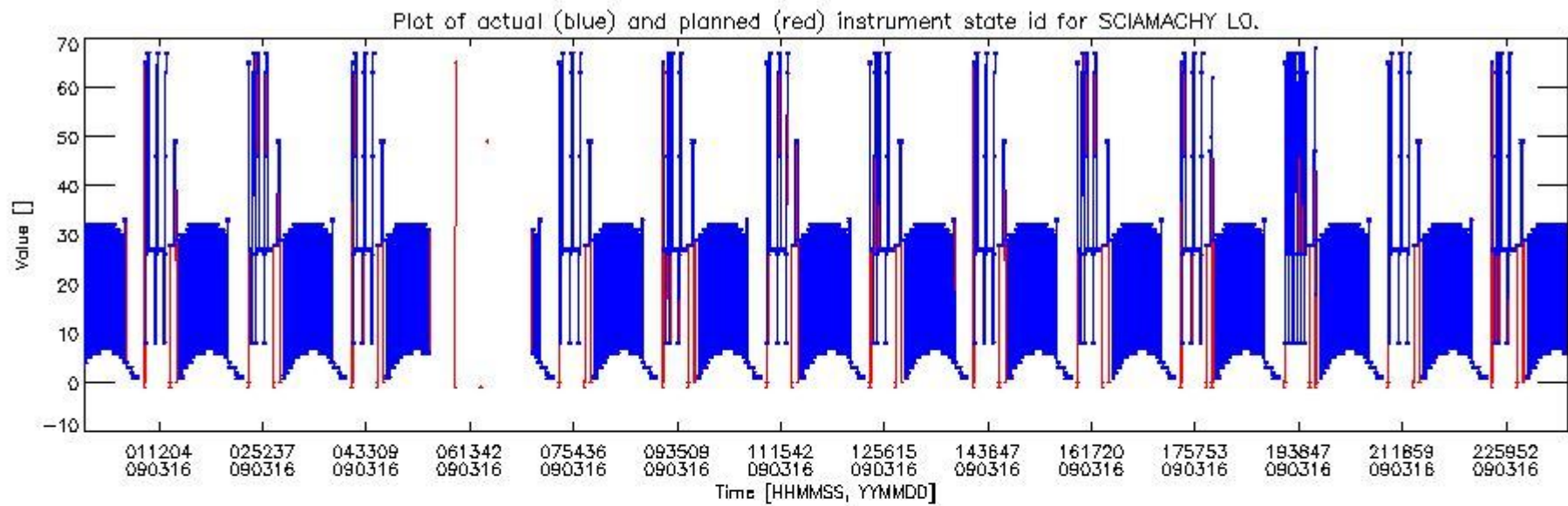


### 0.3 State monitoring

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: **43282**

| #   | Actual time               | Actual value | Planned time              | Planned value |
|-----|---------------------------|--------------|---------------------------|---------------|
| 0   | 16MAR2009 00:00:24.318315 | 4            | 16MAR2009 00:00:24.318315 | 31            |
| 1   | 16MAR2009 00:00:24.568324 | 4            | 16MAR2009 00:00:24.568324 | 31            |
| 2   | 16MAR2009 00:00:24.693328 | 4            | 16MAR2009 00:00:24.693328 | 31            |
| 3   | 16MAR2009 00:00:24.818292 | 4            | 16MAR2009 00:00:24.818292 | 31            |
| 4   | 16MAR2009 00:00:24.943297 | 4            | 16MAR2009 00:00:24.943297 | 31            |
| 5   | 16MAR2009 00:00:25.068301 | 4            | 16MAR2009 00:00:25.068301 | 31            |
| 6   | 16MAR2009 00:00:25.193305 | 4            | 16MAR2009 00:00:25.193305 | 31            |
| 7   | 16MAR2009 00:00:25.318310 | 4            | 16MAR2009 00:00:25.318310 | 31            |
| 8   | 16MAR2009 00:00:25.443314 | 4            | 16MAR2009 00:00:25.443314 | 31            |
| 9   | 16MAR2009 00:00:25.568318 | 4            | 16MAR2009 00:00:25.568318 | 31            |
| 10  | 16MAR2009 00:00:25.693323 | 4            | 16MAR2009 00:00:25.693323 | 31            |
| 11  | 16MAR2009 00:00:25.818327 | 4            | 16MAR2009 00:00:25.818327 | 31            |
| 12  | 16MAR2009 00:00:25.943291 | 4            | 16MAR2009 00:00:25.943291 | 31            |
| 13  | 16MAR2009 00:00:26.068296 | 4            | 16MAR2009 00:00:26.068296 | 31            |
| 14  | 16MAR2009 00:00:26.193300 | 4            | 16MAR2009 00:00:26.193300 | 31            |
| 15  | 16MAR2009 00:00:26.318304 | 4            | 16MAR2009 00:00:26.318304 | 31            |
| 16  | 16MAR2009 00:00:26.443309 | 4            | 16MAR2009 00:00:26.443309 | 31            |
| 17  | 16MAR2009 00:00:26.568313 | 4            | 16MAR2009 00:00:26.568313 | 31            |
| 18  | 16MAR2009 00:00:26.693317 | 4            | 16MAR2009 00:00:26.693317 | 31            |
| 19  | 16MAR2009 00:00:26.818322 | 4            | 16MAR2009 00:00:26.818322 | 31            |
| ... | ...                       | ...          | ...                       | ...           |



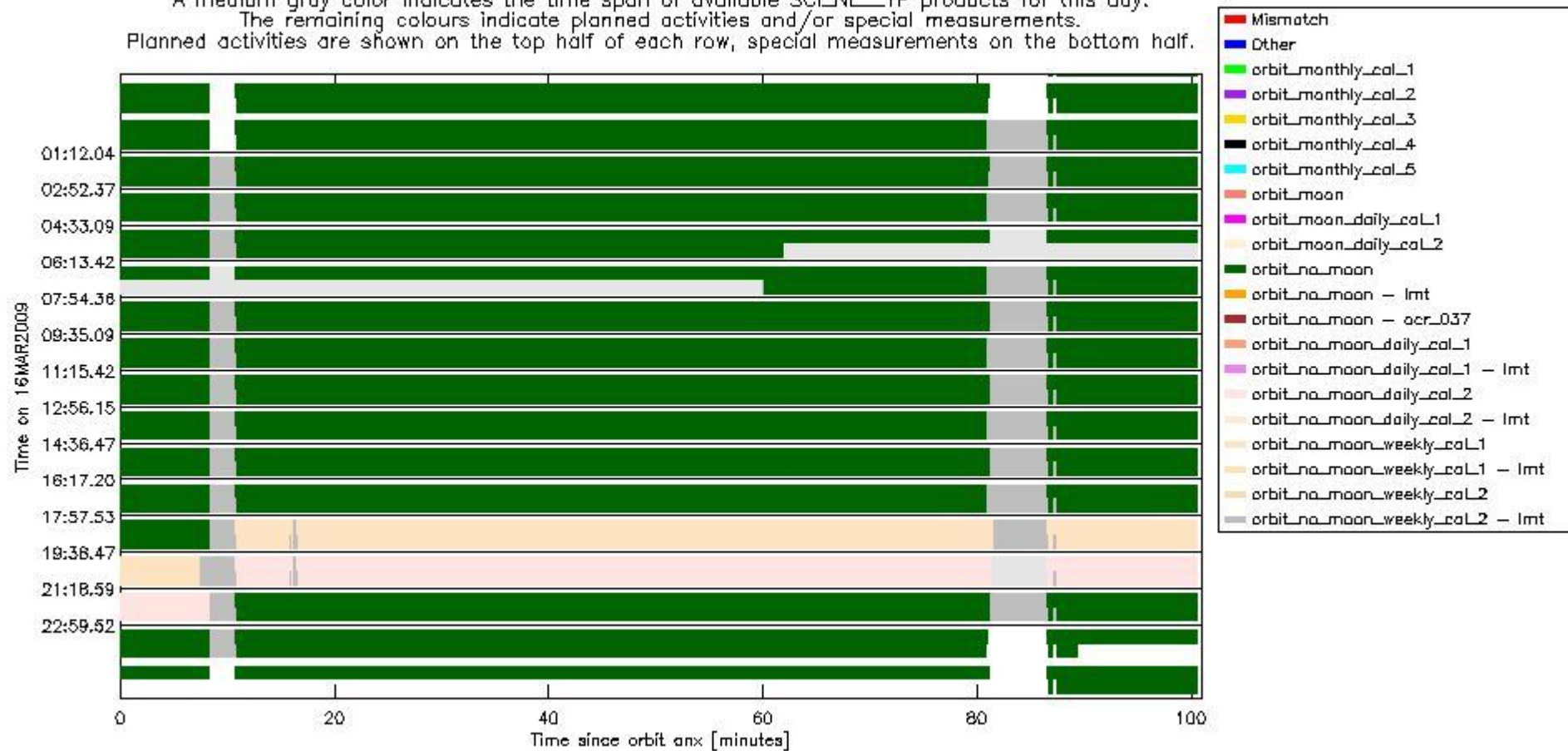
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090316\_5.PNG

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 16MAR2009.  
 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\_KSPT\_L0\_4303\_N\_20090316\_6.PNG

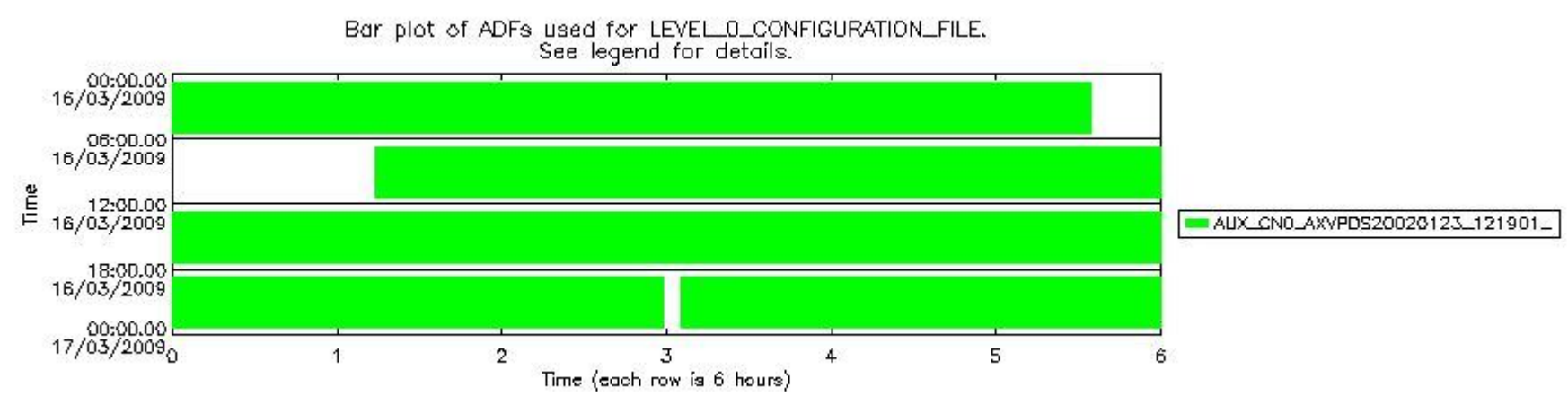
## 0.4 ADF monitoring

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

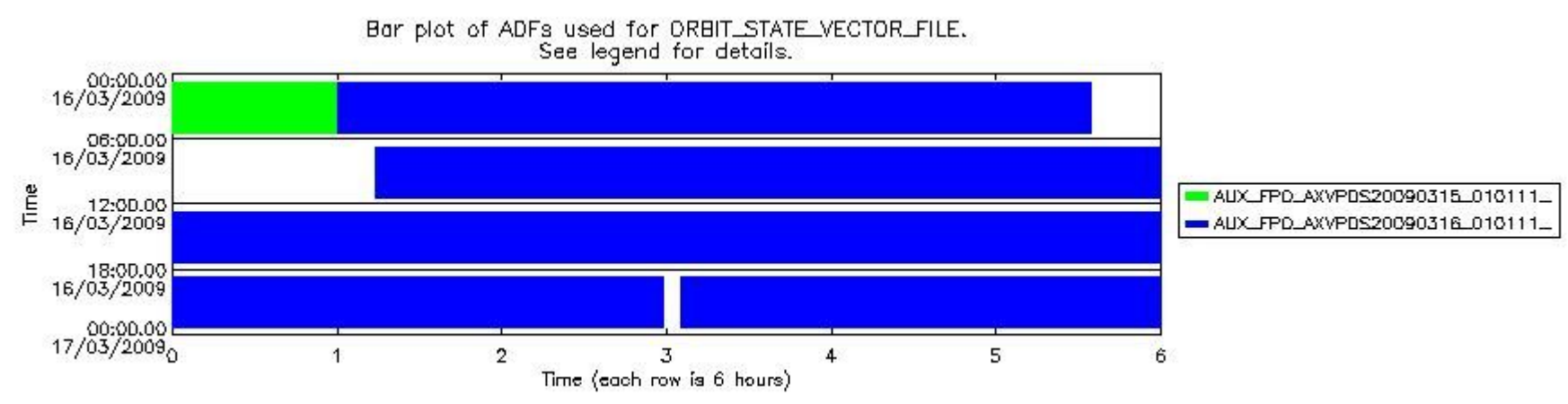
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

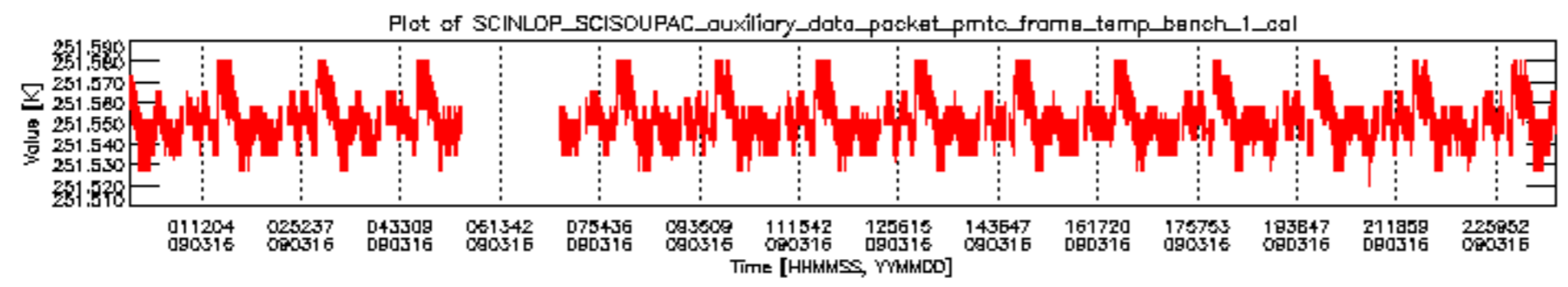
| Number | ADF   |
|--------|---|
|        | <b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>                       |
| 0      | AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000 |
|        | <b>FPO (ORBIT_STATE_VECTOR_FILE)</b>                          |
| 1      | AUX_FPO_AXVPDS20090315_010111_20090314_190115_20090324_202728 |
| 2      | AUX_FPO_AXVPDS20090316_010111_20090315_182938_20090325_213627 |



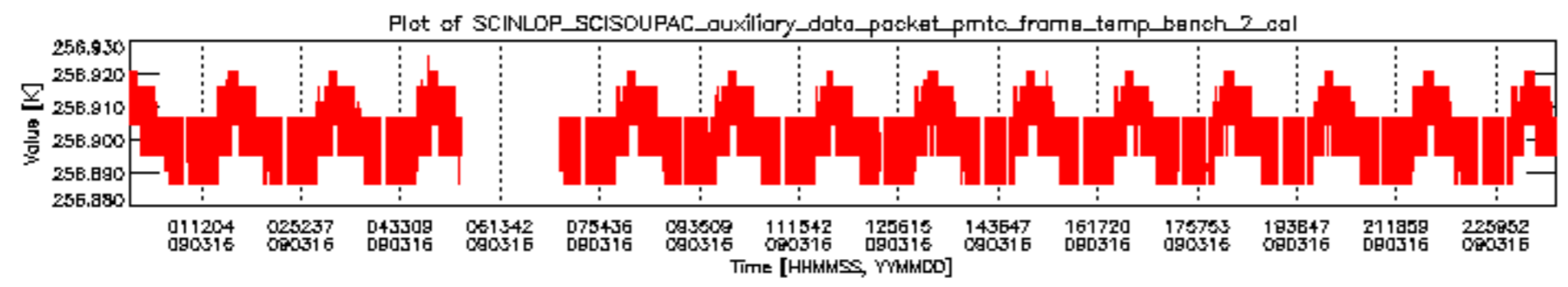
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090316\_7.PNG

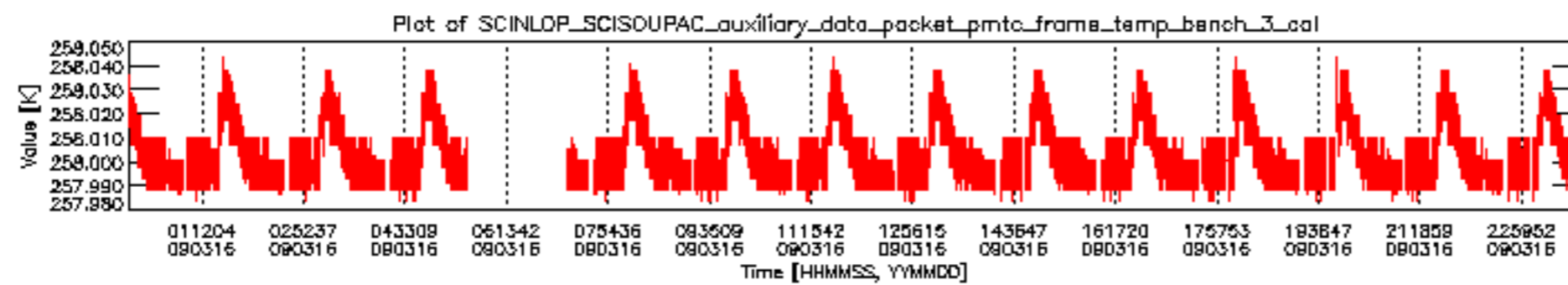


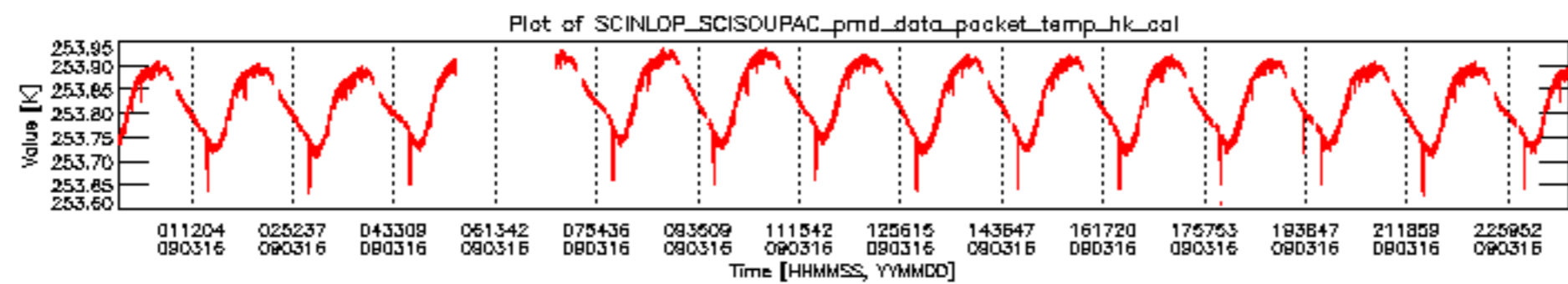
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090316\_8.PNG

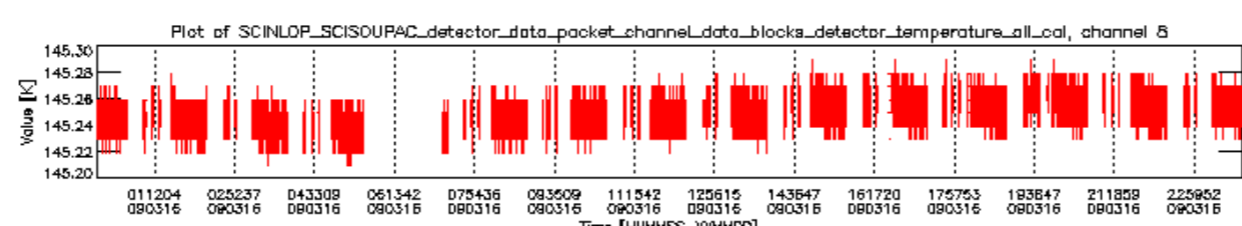
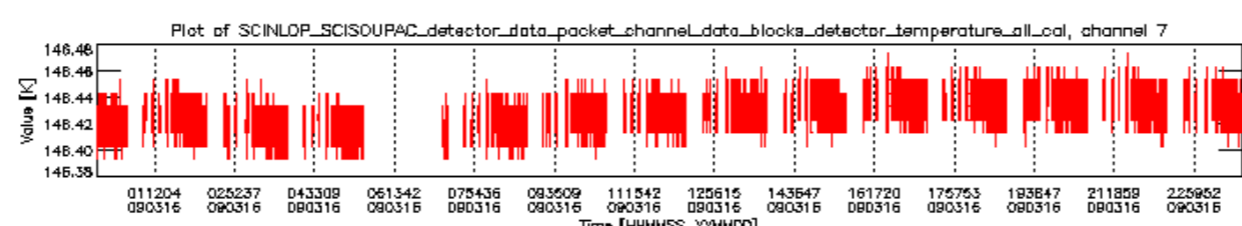
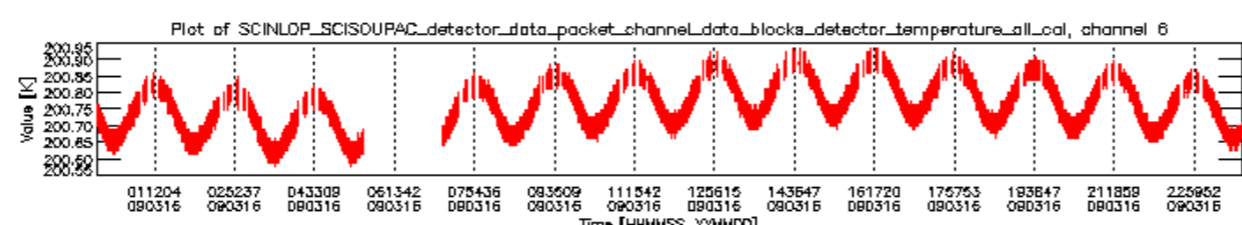
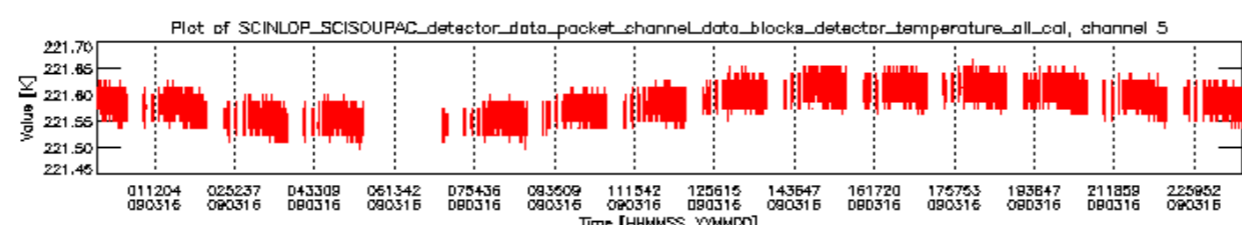
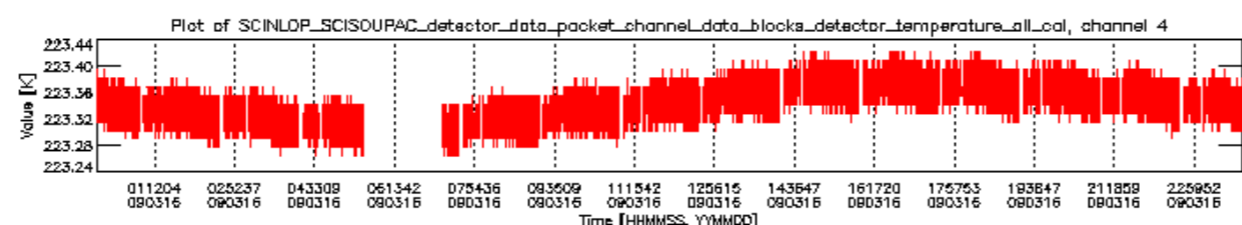
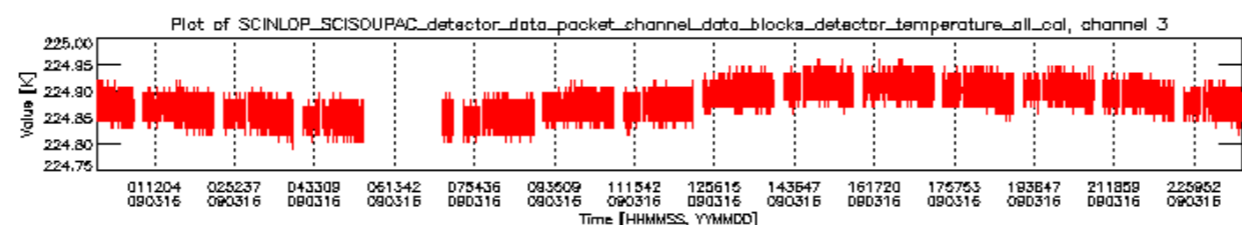
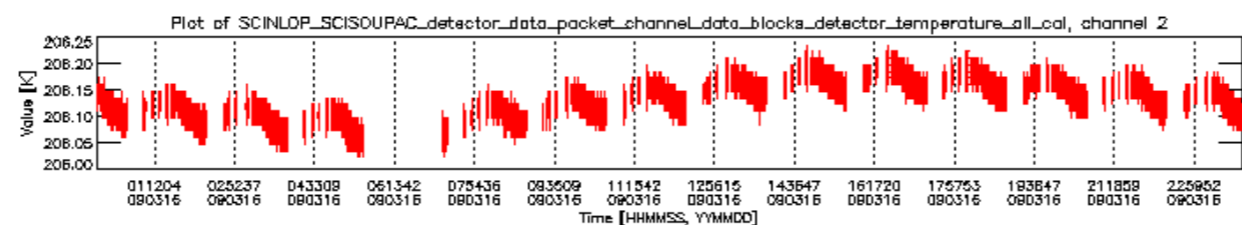
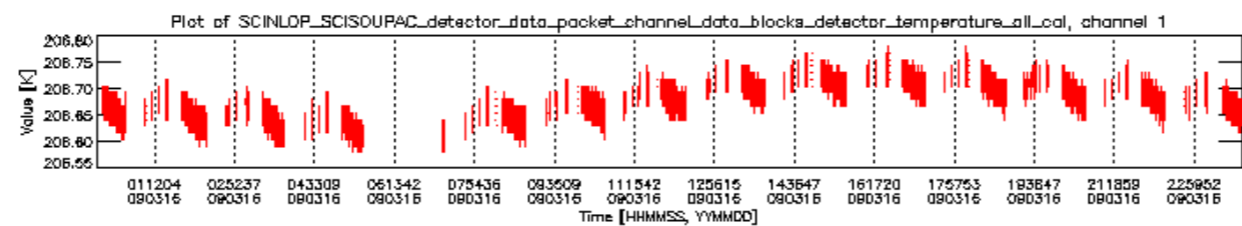




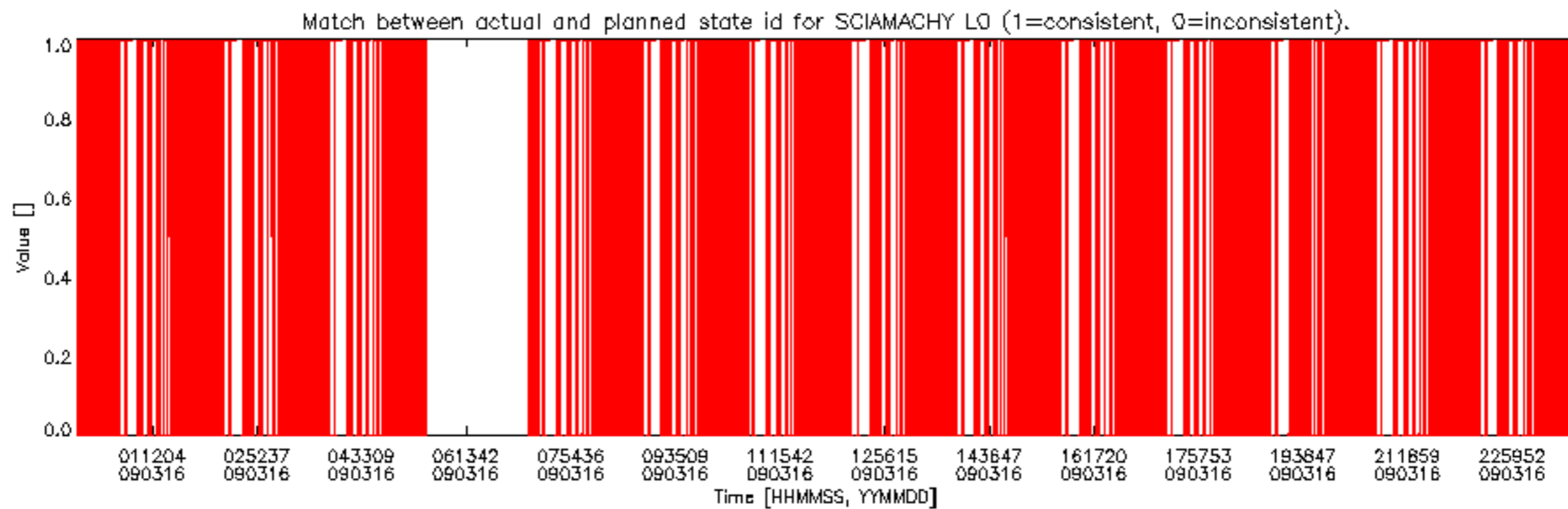
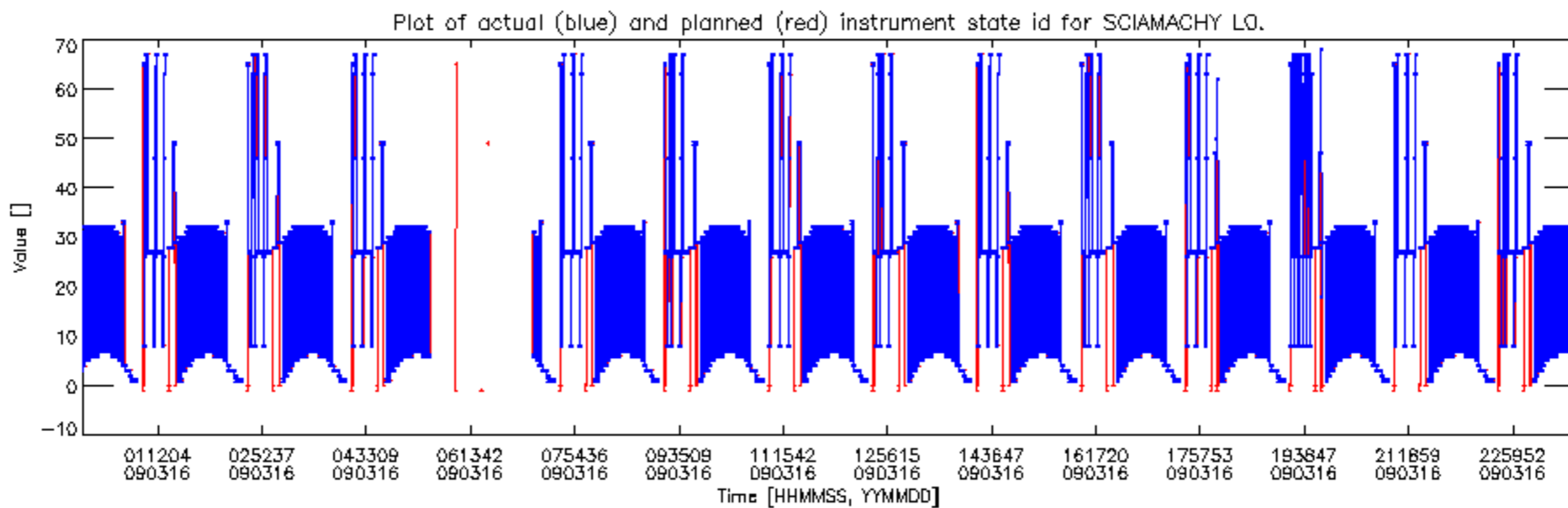












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