

## 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	20OCT2007 06:12:24
Data source version	KSPT_L0/4302-N
Processing scope for products	16OCT2007 00:00:00 to 17OCT2007 00:00:00
Start time of first product within scope	15OCT2007 22:27:51
Stop time of last product within scope	16OCT2007 23:30:56
Total number of level 0 products	16
Number of level 0 products with errors	0

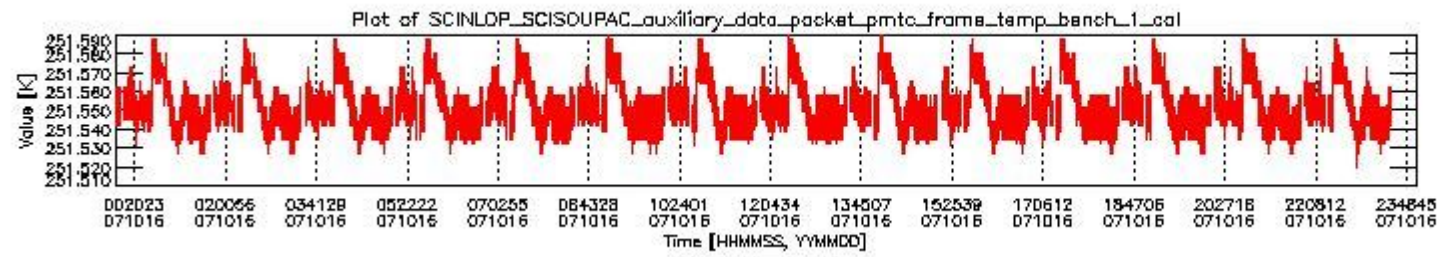
### 0.1.2 Summary per product

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

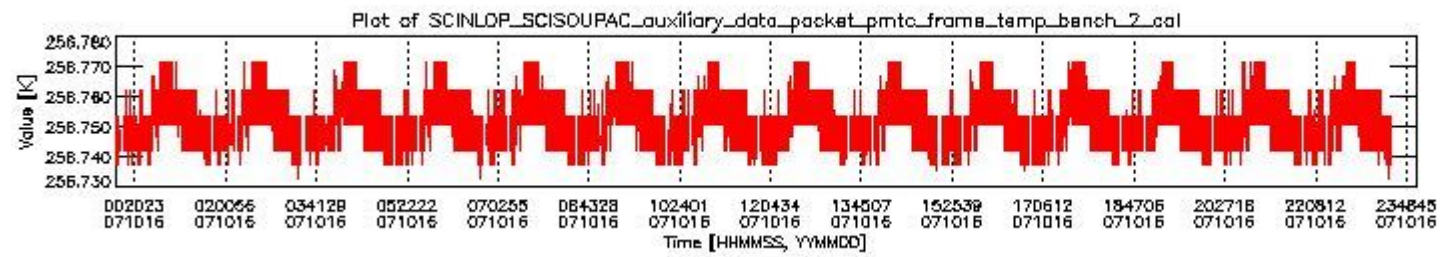
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071015_222751_000060802062_00301_29413_5380.N1	15OCT2007 22:27:51	16OCT2007 00:09:11	0	0	0	0	0
1	SCI_NL__OPNPDE20071016_000827_000056882062_00302_29414_5381.N1	16OCT2007 00:08:27	16OCT2007 01:43:15	0	0	0	0	0
2	SCI_NL__OPNPDE20071016_014903_000042432062_00303_29415_5382.N1	16OCT2007 01:49:03	16OCT2007 02:59:47	0	0	0	0	0
3	SCI_NL__OPNPDE20071016_025947_000061742062_00304_29416_5383.N1	16OCT2007 02:59:47	16OCT2007 04:42:40	0	0	0	0	0
4	SCI_NL__OPNPDE20071016_044240_000060242062_00305_29417_5384.N1	16OCT2007 04:42:40	16OCT2007 06:23:04	0	0	0	0	0
5	SCI_NL__OPNPDK20071016_062304_000039902062_00306_29418_6357.N1	16OCT2007 06:23:04	16OCT2007 07:29:34	0	0	0	0	0
6	SCI_NL__OPNPDK20071016_072838_000062172062_00307_29419_6358.N1	16OCT2007 07:28:38	16OCT2007 09:12:15	0	0	0	0	0
7	SCI_NL__OPNPDK20071016_091106_000059802062_00308_29420_6359.N1	16OCT2007 09:11:06	16OCT2007 10:50:47	0	0	0	0	0
8	SCI_NL__OPNPDK20071016_104951_000060242062_00309_29421_6360.N1	16OCT2007 10:49:51	16OCT2007 12:30:14	0	0	0	0	0
9	SCI_NL__OPNPDK20071016_122919_000061052062_00310_29422_6361.N1	16OCT2007 12:29:19	16OCT2007 14:11:04	0	0	0	0	0
10	SCI_NL__OPNPDK20071016_140955_000058562062_00311_29423_6362.N1	16OCT2007 14:09:55	16OCT2007 15:47:31	0	0	0	0	0
11	SCI_NL__OPNPDK20071016_154539_000060562062_00312_29424_6363.N1	16OCT2007 15:45:39	16OCT2007 17:26:36	0	0	0	0	0
12	SCI_NL__OPNPDK20071016_172555_000059192062_00313_29425_6364.N1	16OCT2007 17:25:55	16OCT2007 19:04:34	0	0	0	0	0
13	SCI_NL__OPNPDK20071016_190434_000059802062_00314_29426_6365.N1	16OCT2007 19:04:34	16OCT2007 20:44:14	0	0	0	0	0
14	SCI_NL__OPNPDE20071016_204222_000044382062_00315_29427_5385.N1	16OCT2007 20:42:22	16OCT2007 21:56:21	0	0	0	0	0
15	SCI_NL__OPNPDE20071016_215621_000056762062_00315_29427_5386.N1	16OCT2007 21:56:21	16OCT2007 23:30:56	0	0	0	0	0

## 0.2 Product Quality Indicators

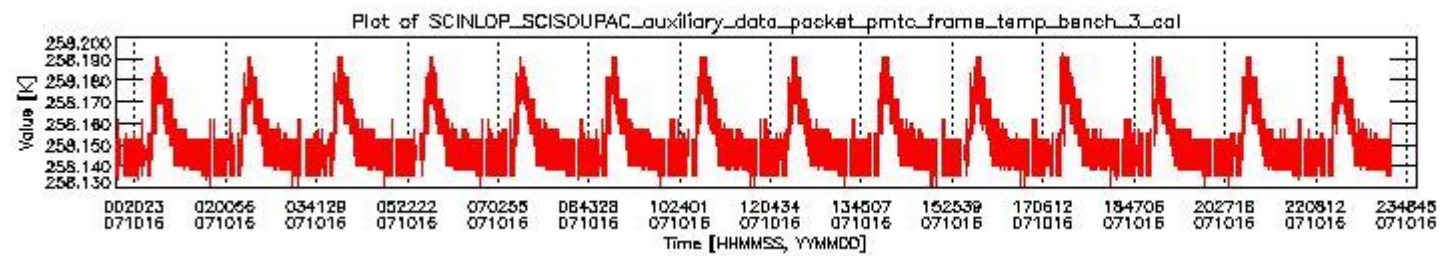
This section shows information about product quality, currently temperatures.



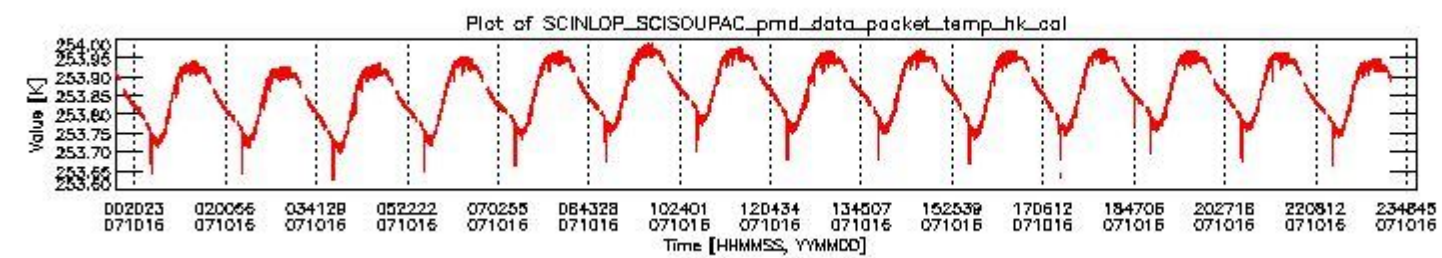
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071016\_0.PNG



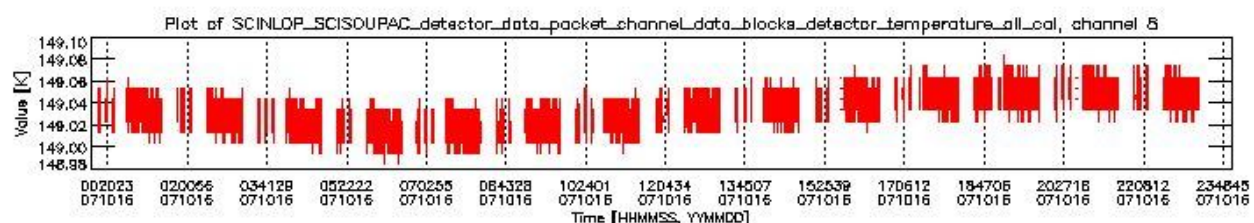
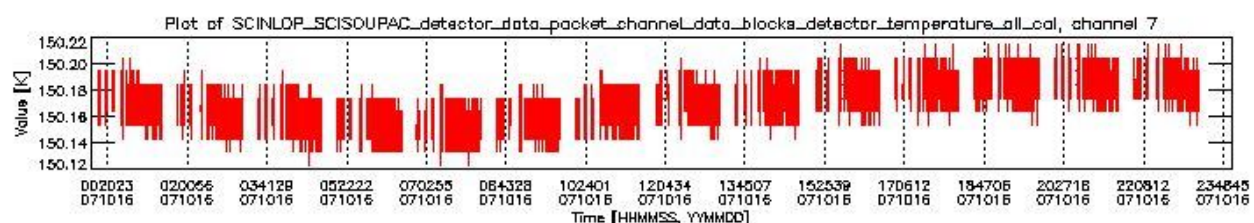
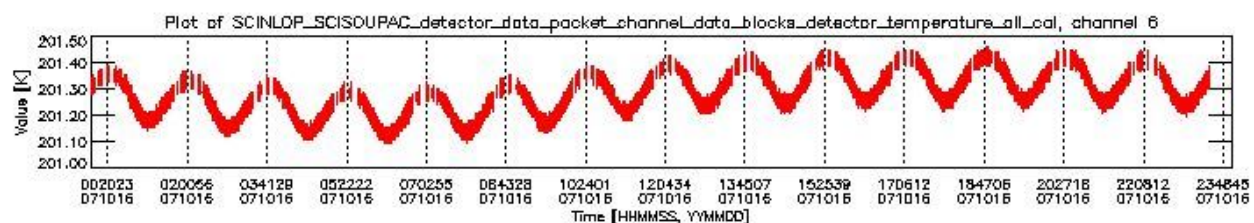
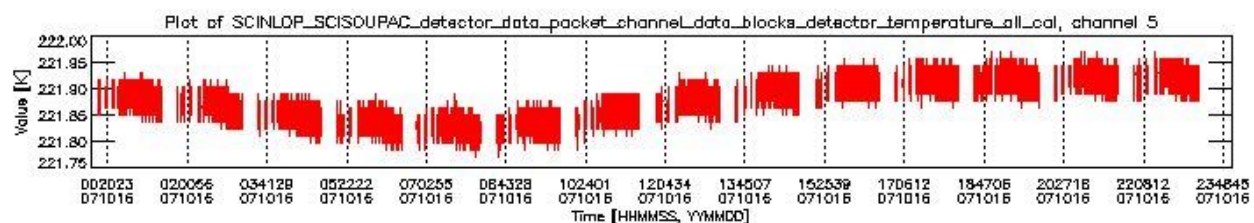
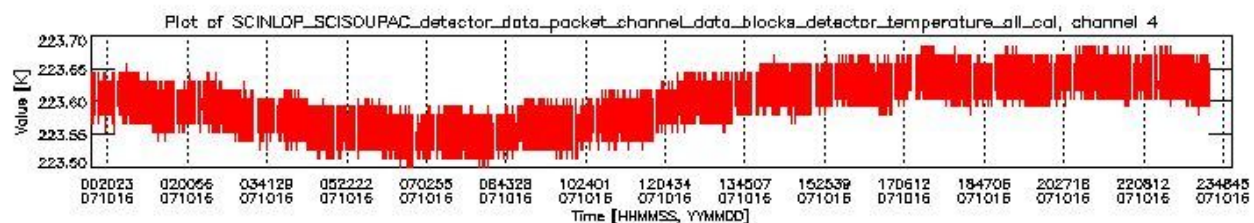
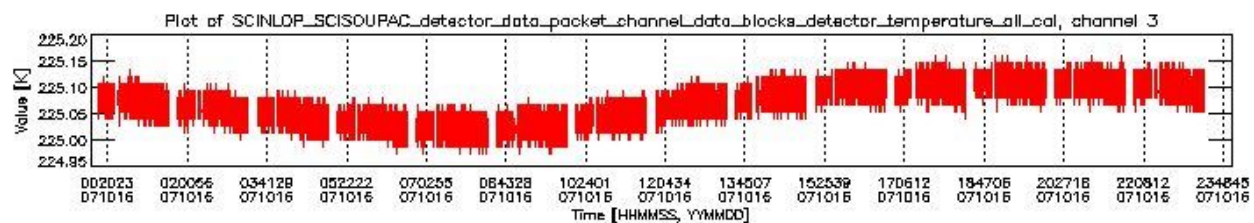
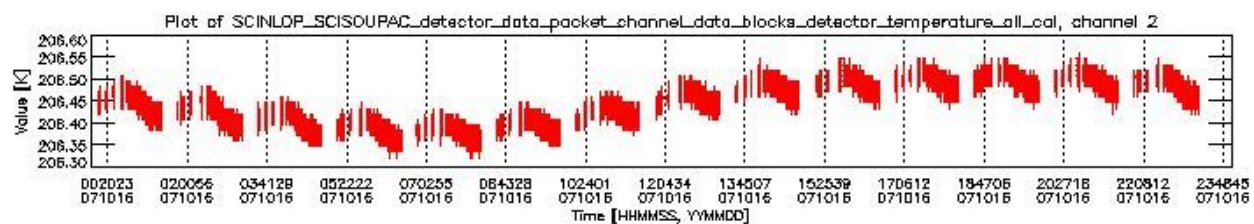
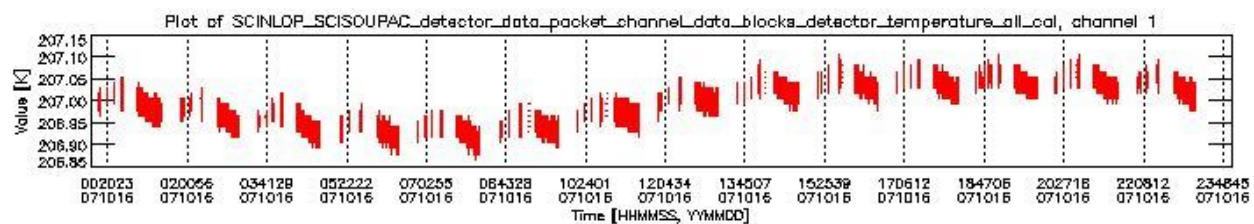
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071016\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071016\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071016\_3.PNG

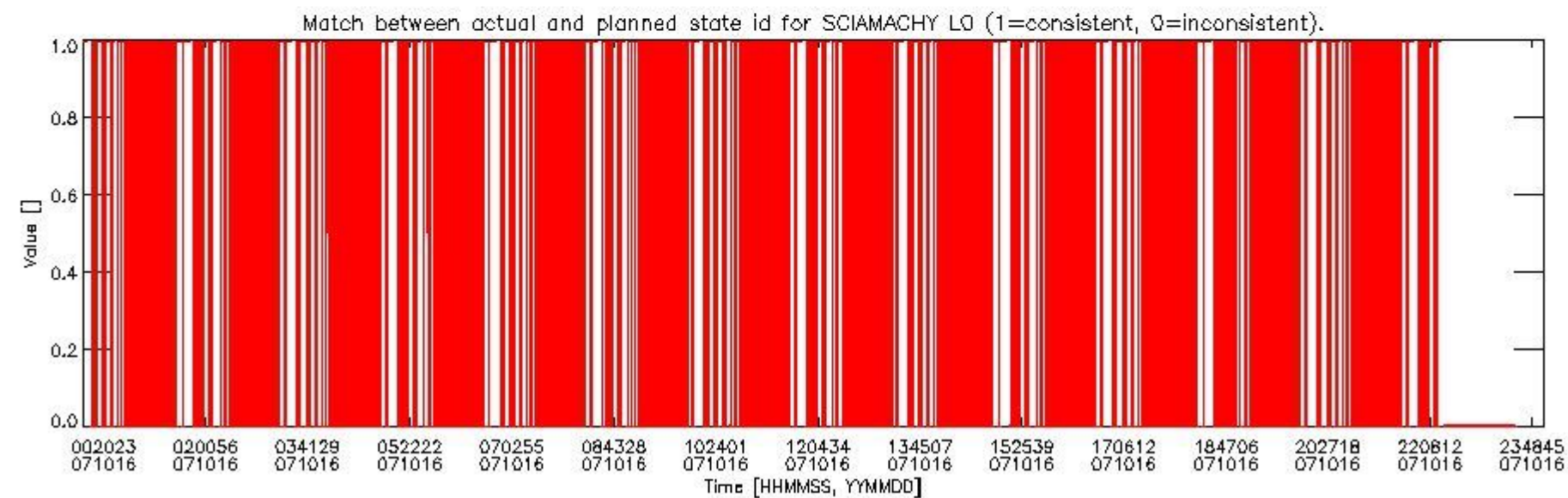
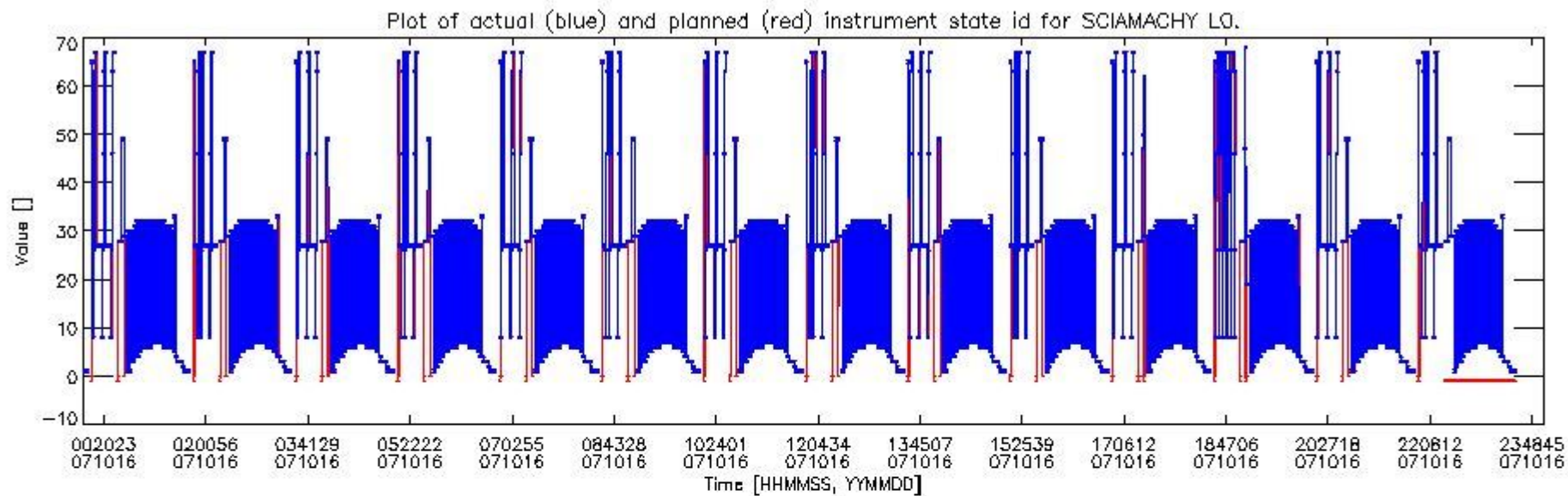


### 0.3 State monitoring

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: **60054**

#	Actual time	Actual value	Planned time	Planned value
0	16OCT2007 00:08:27.607104	65	16OCT2007 00:08:27.607104	0
1	16OCT2007 00:08:28.232085	65	16OCT2007 00:08:28.232085	0
2	16OCT2007 00:08:28.732103	65	16OCT2007 00:08:28.732103	0
3	16OCT2007 00:08:29.232120	65	16OCT2007 00:08:29.232120	0
4	16OCT2007 00:08:29.732097	65	16OCT2007 00:08:29.732097	0
5	16OCT2007 00:08:30.232115	65	16OCT2007 00:08:30.232115	0
6	16OCT2007 00:08:30.732092	65	16OCT2007 00:08:30.732092	0
7	16OCT2007 00:08:31.232109	65	16OCT2007 00:08:31.232109	0
8	16OCT2007 00:08:31.732087	65	16OCT2007 00:08:31.732087	0
9	16OCT2007 00:09:11.357098	8	16OCT2007 00:09:11.357098	0
10	16OCT2007 00:09:12.482097	8	16OCT2007 00:09:12.482097	0
11	16OCT2007 00:09:13.482091	8	16OCT2007 00:09:13.482091	0
12	16OCT2007 00:09:14.482086	8	16OCT2007 00:09:14.482086	0
13	16OCT2007 00:09:15.482081	8	16OCT2007 00:09:15.482081	0
14	16OCT2007 00:09:16.357111	8	16OCT2007 00:09:16.357111	0
15	16OCT2007 00:09:16.482115	8	16OCT2007 00:09:16.482115	0
16	16OCT2007 00:09:17.482110	8	16OCT2007 00:09:17.482110	0
17	16OCT2007 00:09:54.919606	26	16OCT2007 00:09:54.919606	8
18	16OCT2007 00:09:55.544587	26	16OCT2007 00:09:55.544587	8
19	16OCT2007 00:09:56.044604	26	16OCT2007 00:09:56.044604	8
...	...	...	...	...

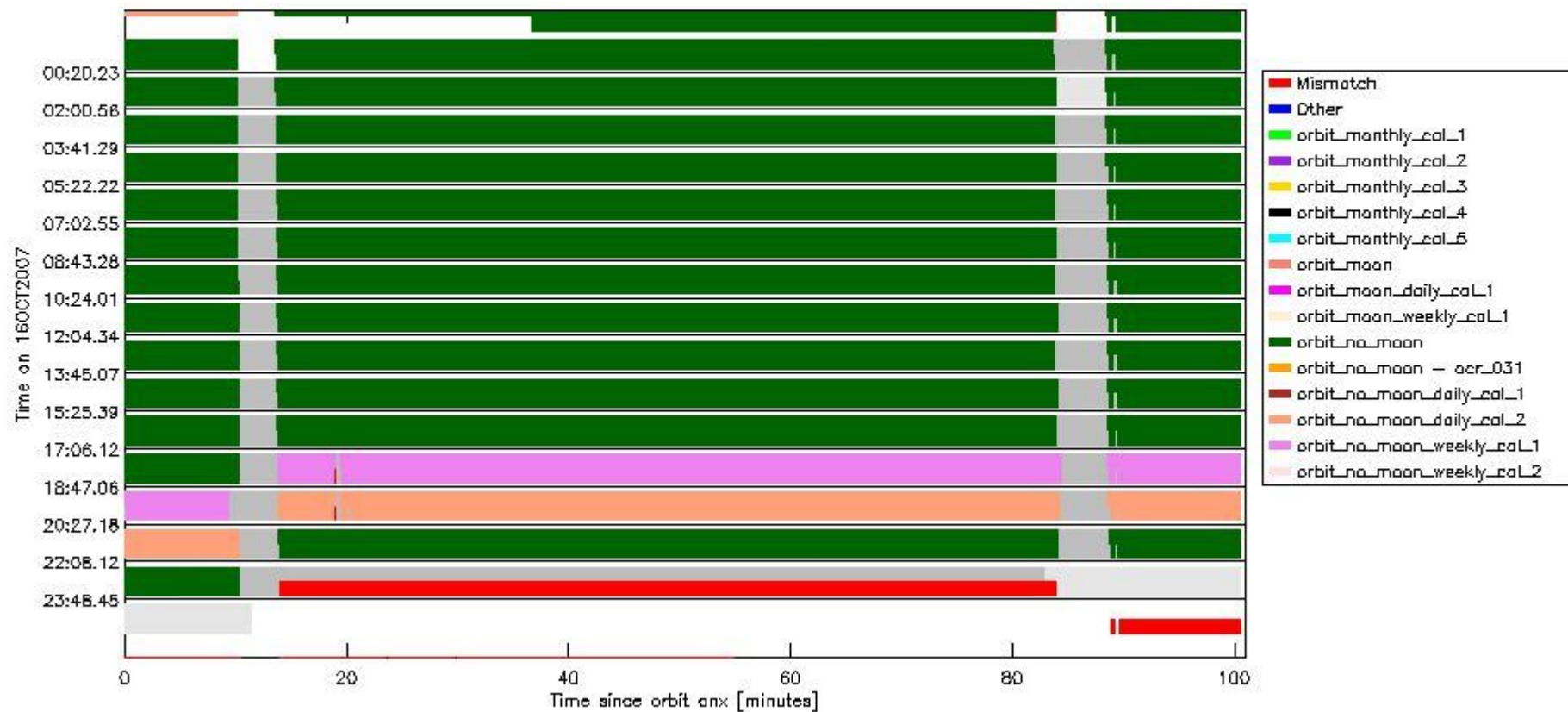


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071016\_5.PNG

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 16OCT2007.  
 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\_4302\_N\_20071016\_6.PNG

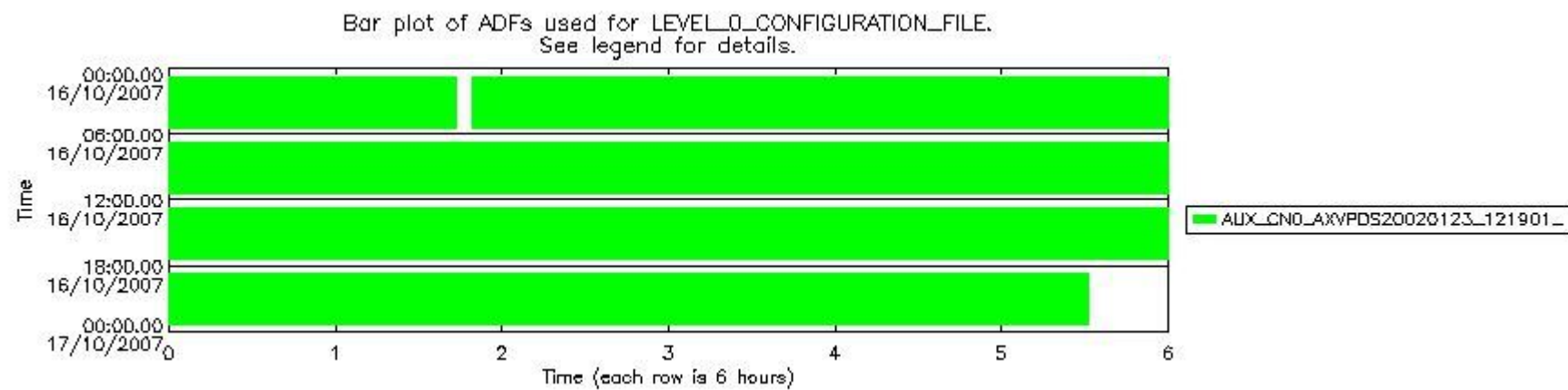
## 0.4 ADF monitoring

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

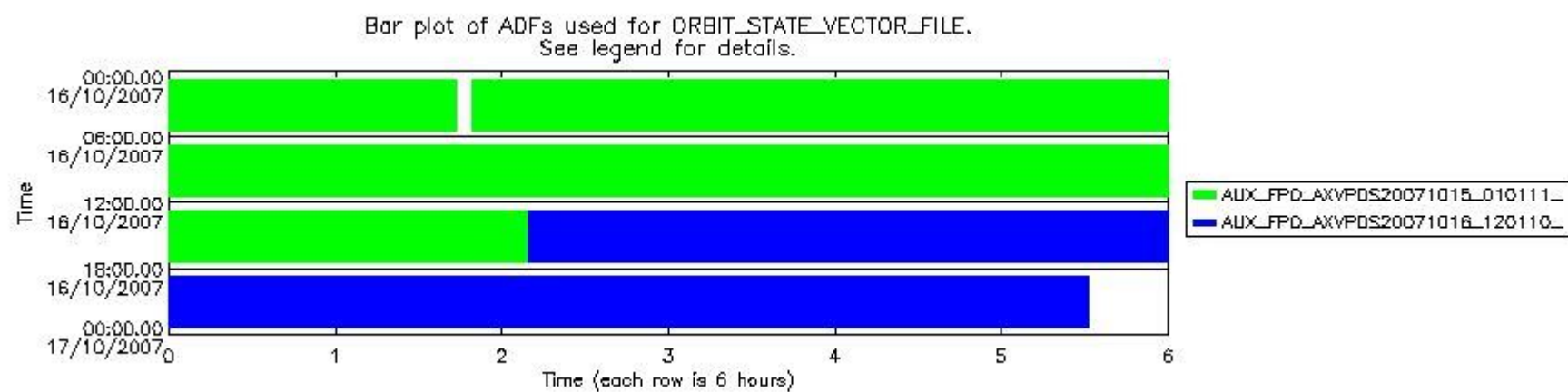
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

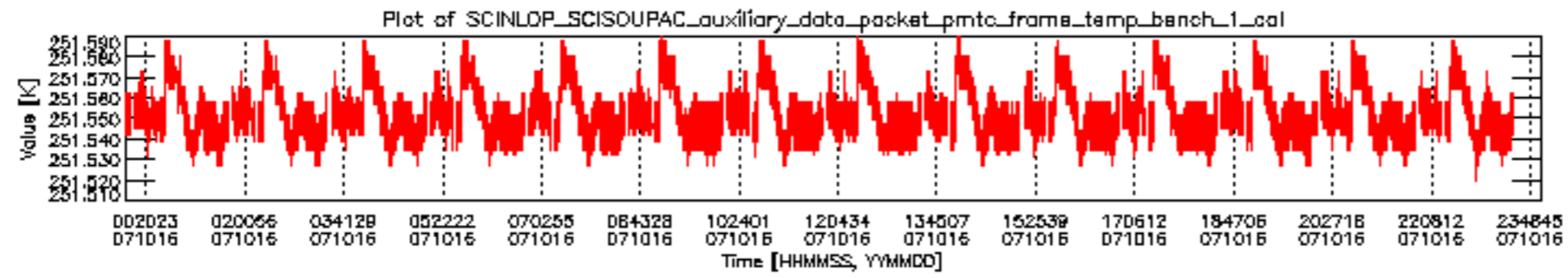
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
<b>1</b>	<b>AUX_FPO_AXVPDS20071015_010111_20071014_195012_20071024_211625</b>
<b>2</b>	<b>AUX_FPO_AXVPDS20071016_120110_20071015_191835_20071025_204448</b>



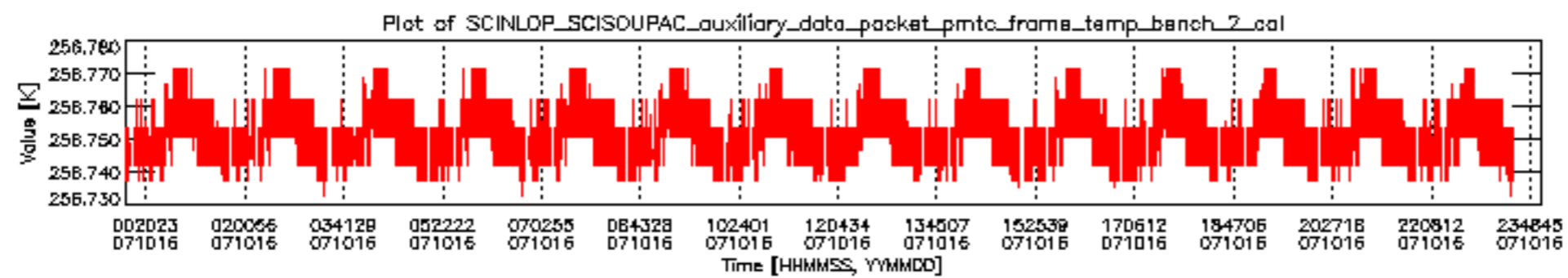
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071016\_7.PNG

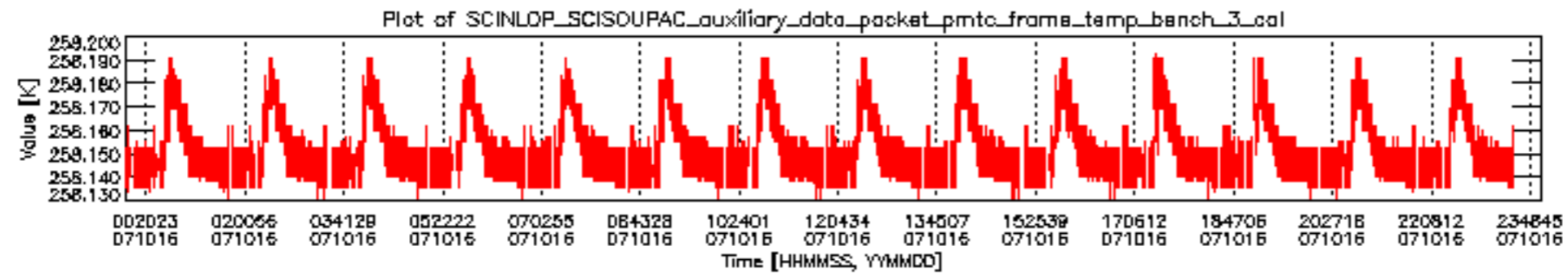


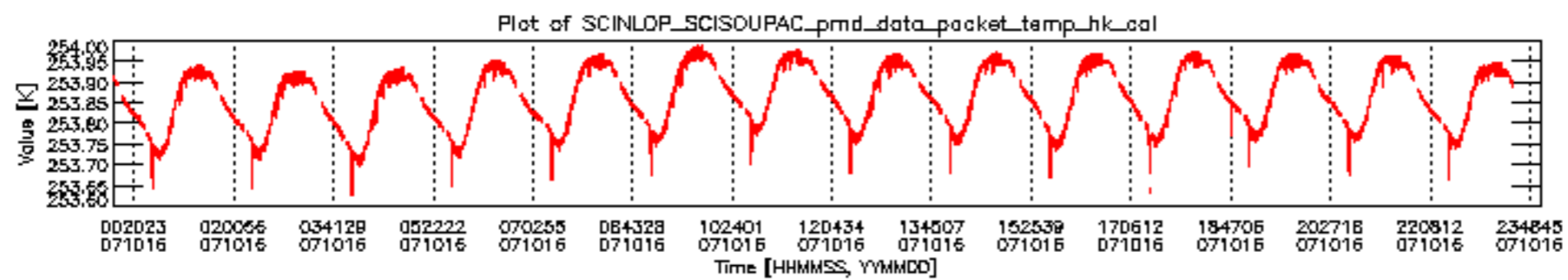
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071016\_8.PNG

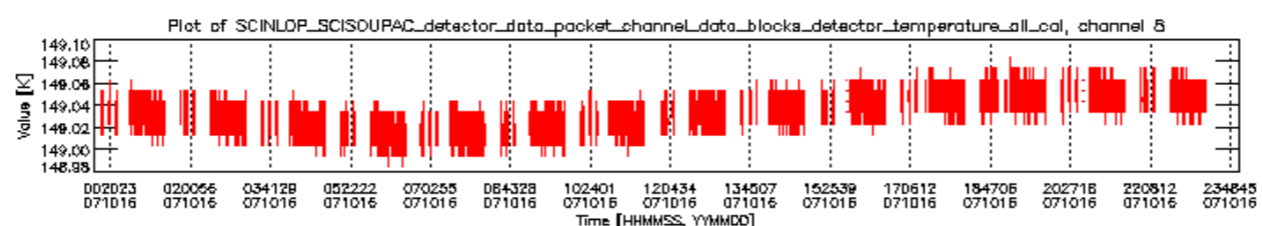
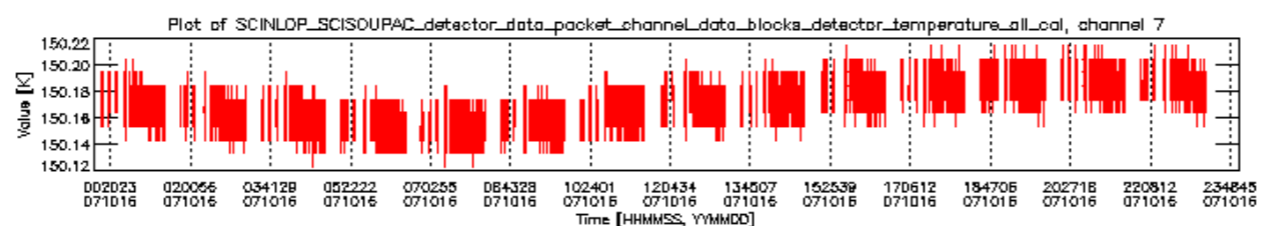
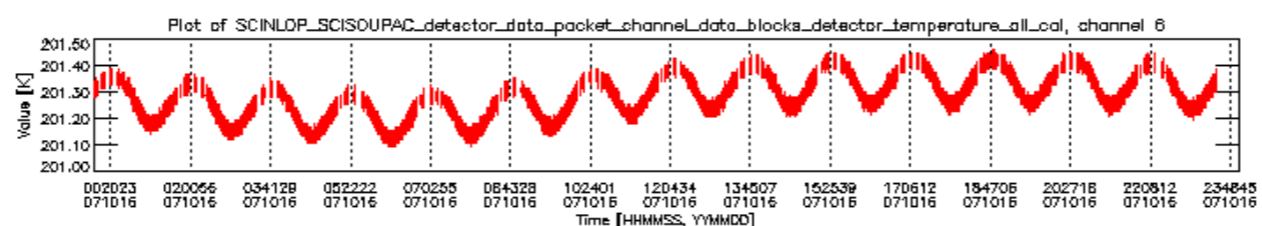
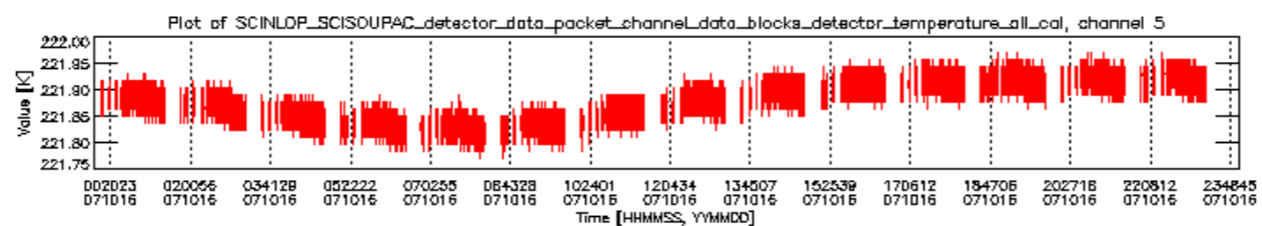
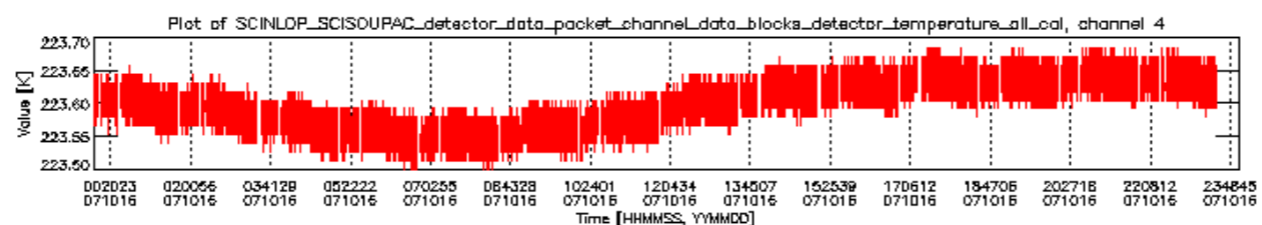
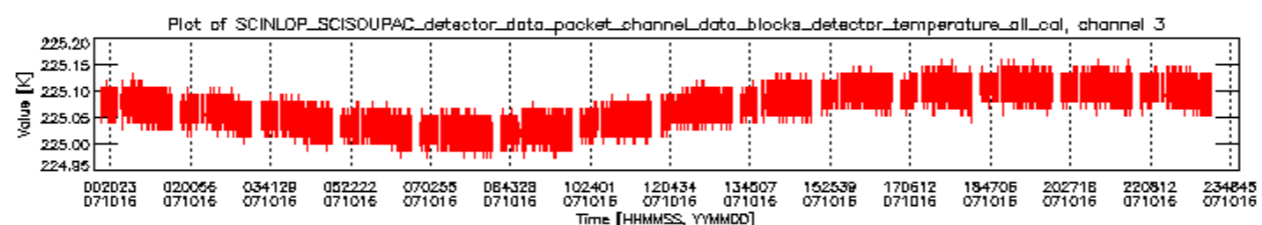
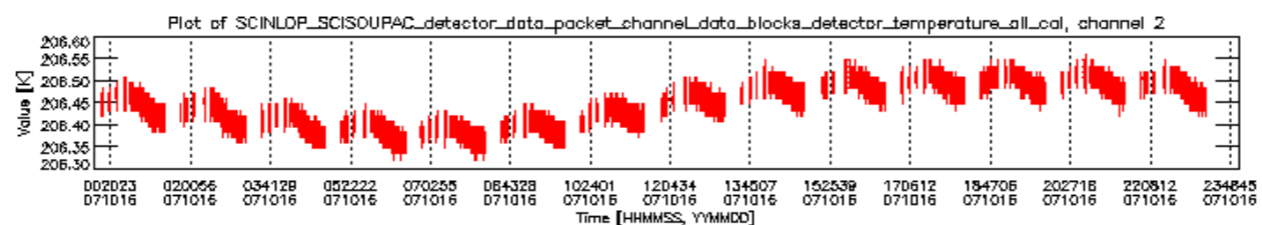
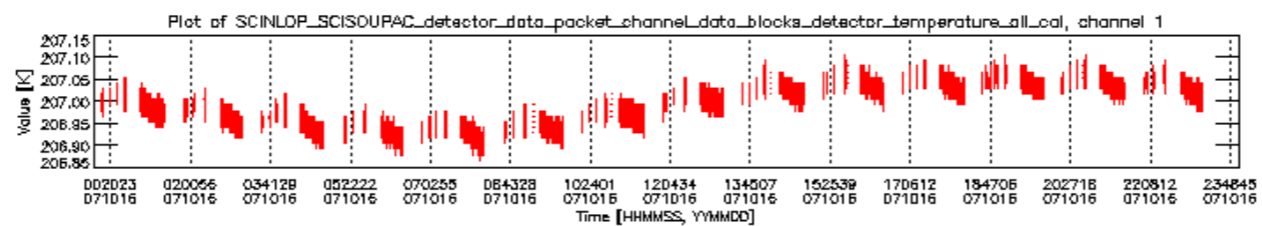


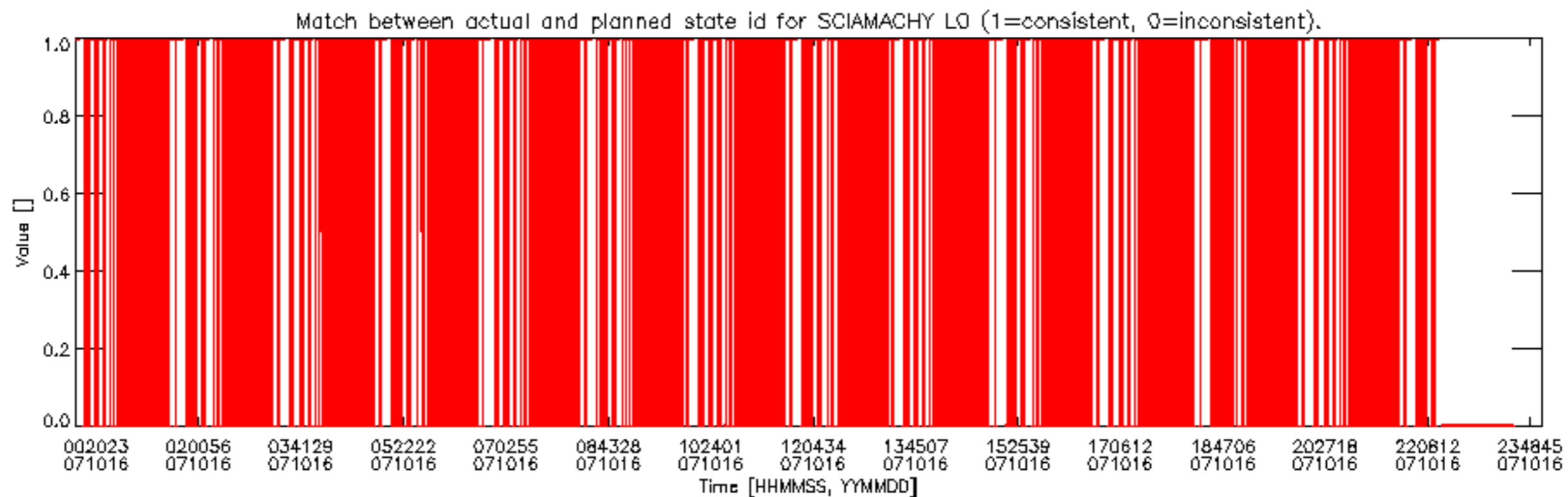
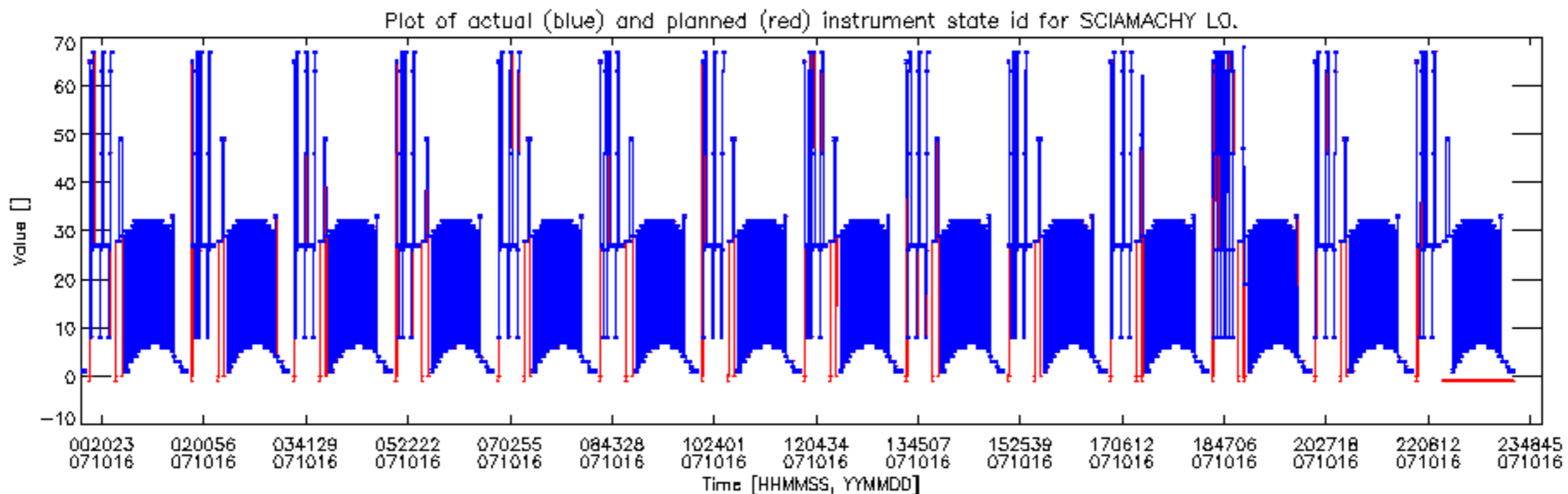












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 16OCT2007.  
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