

## 0. SCIAMACHY Daily Report for level 0 products

### [0.1 General Info](#)

### [0.2 Product Quality Indicators](#)

### [0.3 State monitoring](#)

### [0.4 ADF monitoring](#)

## 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	19OCT2007 04:25:31
Data source version	KSPT_L0/4302-N
Processing scope for products	15OCT2007 00:00:00 to 16OCT2007 00:00:00
Start time of first product within scope	14OCT2007 22:59:21
Stop time of last product within scope	16OCT2007 00:09:11
Total number of level 0 products	16
Number of level 0 products with errors	1

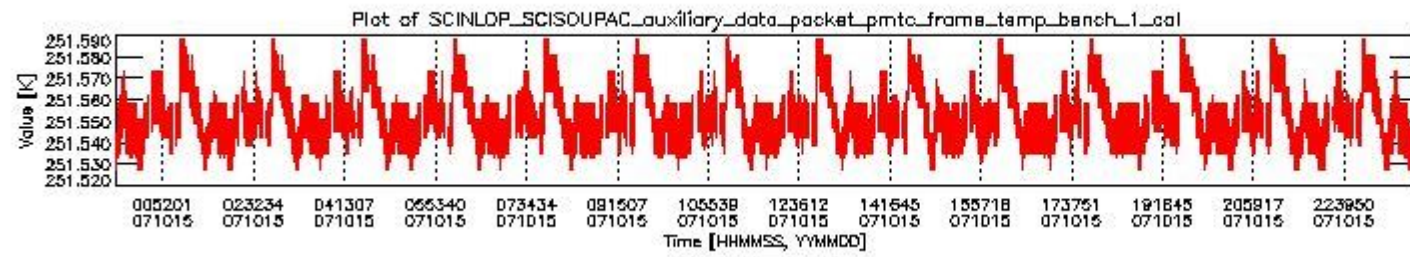
### 0.1.2 Summary per product

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

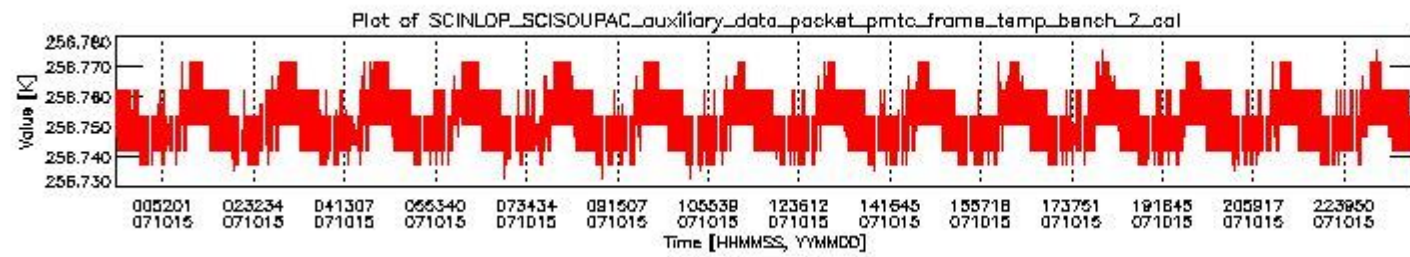
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071014_225921_000060802062_00287_29399_5373.N1	14OCT2007 22:59:21	15OCT2007 00:40:41	0	0	0	0	0
1	SCI_NL__OPNPDE20071015_003957_000056882062_00288_29400_5374.N1	15OCT2007 00:39:57	15OCT2007 02:14:45	0	0	0	0	0
2	SCI_NL__OPNPDE20071015_021445_000045922062_00289_29401_5375.N1	15OCT2007 02:14:45	15OCT2007 03:31:17	0	0	0	0	0
3	SCI_NL__OPNPDE20071015_033117_000061742062_00290_29402_5376.N1	15OCT2007 03:31:17	15OCT2007 05:14:10	0	0	0	0	0
4	SCI_NL__OPNPDE20071015_051410_000060242062_00291_29403_5377.N1	15OCT2007 05:14:10	15OCT2007 06:54:34	0	0	0	0	0
5	SCI_NL__OPNPDK20071015_065338_000041142062_00292_29404_6349.N1	15OCT2007 06:53:38	15OCT2007 08:02:12	0	0	0	0	0
6	SCI_NL__OPNPDK20071015_080104_000062172062_00293_29405_6350.N1	15OCT2007 08:01:04	15OCT2007 09:44:41	0	0	0	0	0
7	SCI_NL__OPNPDK20071015_094236_000060492062_00294_29406_6351.N1	15OCT2007 09:42:36	15OCT2007 11:23:25	0	0	0	0	0
8	SCI_NL__OPNPDK20071015_112217_000060922062_00295_29407_6352.N1	15OCT2007 11:22:17	15OCT2007 13:03:49	0	0	0	0	0
9	SCI_NL__OPNPDK20071015_130253_000059122062_00296_29408_6353.N1	15OCT2007 13:02:53	15OCT2007 14:41:25	0	0	0	0	0
10	SCI_NL__OPNPDK20071015_143921_000059812062_00297_29409_6354.N1	15OCT2007 14:39:21	15OCT2007 16:19:01	0	0	0	0	0
11	SCI_NL__OPNPDK20071015_161709_000058992062_00298_29410_6355.N1	15OCT2007 16:17:09	15OCT2007 17:55:28	1	1	0	0	0
12	SCI_NL__OPNPDK20071015_175528_000060362062_00299_29411_6356.N1	15OCT2007 17:55:28	15OCT2007 19:36:05	0	0	0	0	0
13	SCI_NL__OPNPDE20071015_193508_000039862062_00300_29412_5378.N1	15OCT2007 19:35:08	15OCT2007 20:41:33	0	0	0	0	0
14	SCI_NL__OPNPDE20071015_204714_000060802062_00300_29412_5379.N1	15OCT2007 20:47:14	15OCT2007 22:28:35	0	0	0	0	0
15	SCI_NL__OPNPDE20071015_222751_000060802062_00301_29413_5380.N1	15OCT2007 22:27:51	16OCT2007 00:09:11	0	0	0	0	0

## 0.2 Product Quality Indicators

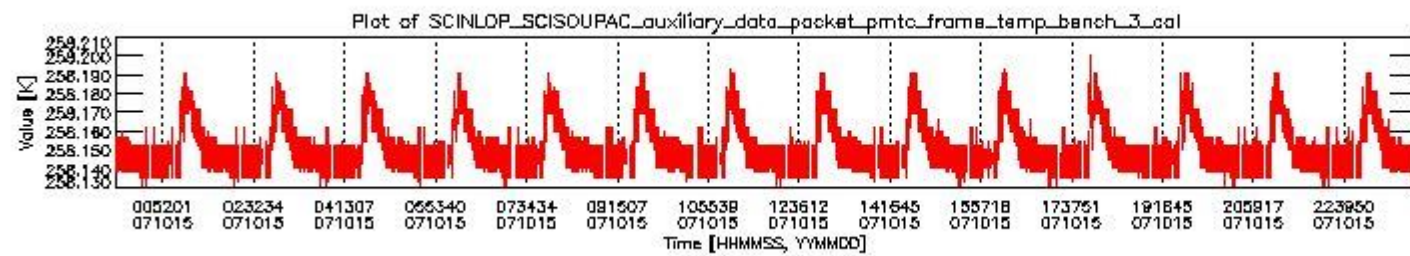
This section shows information about product quality, currently temperatures.



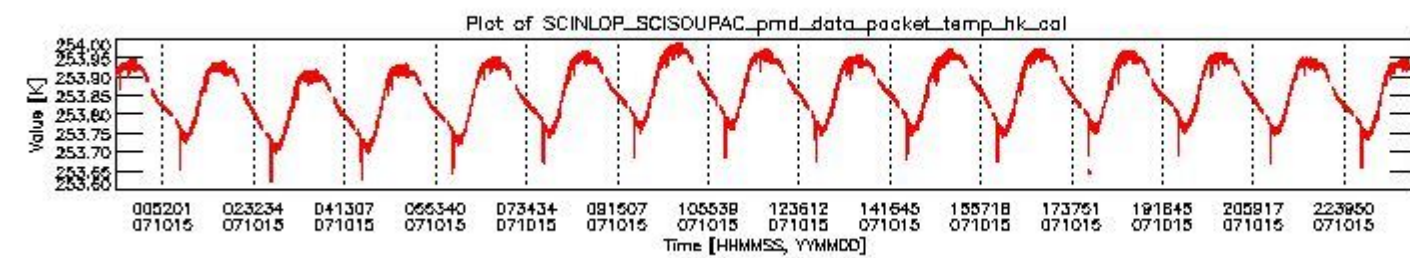
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071015\_0.PNG



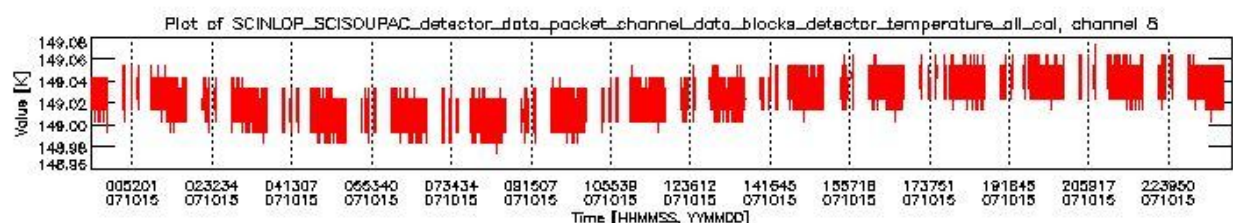
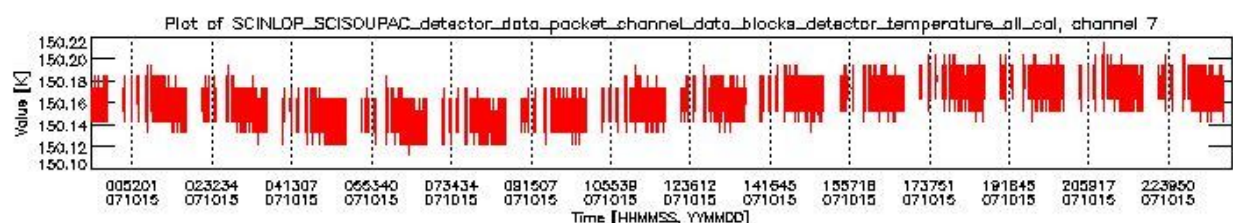
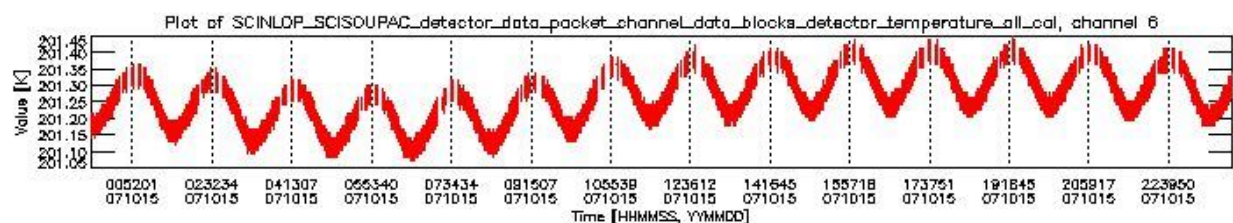
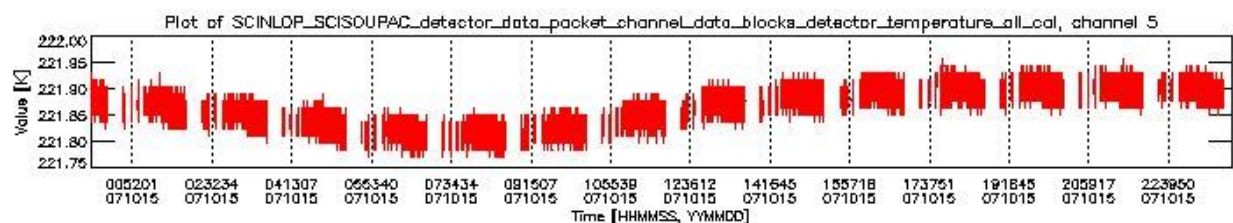
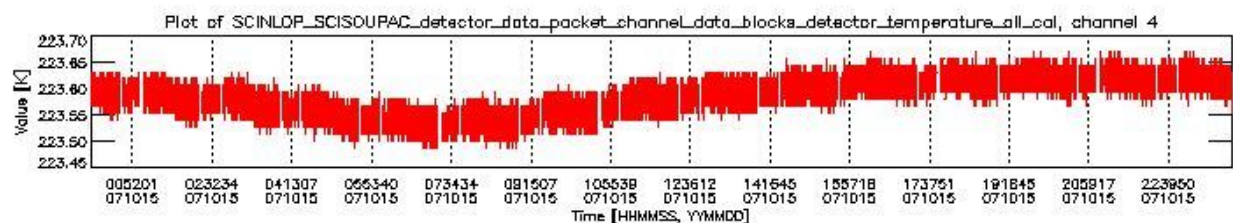
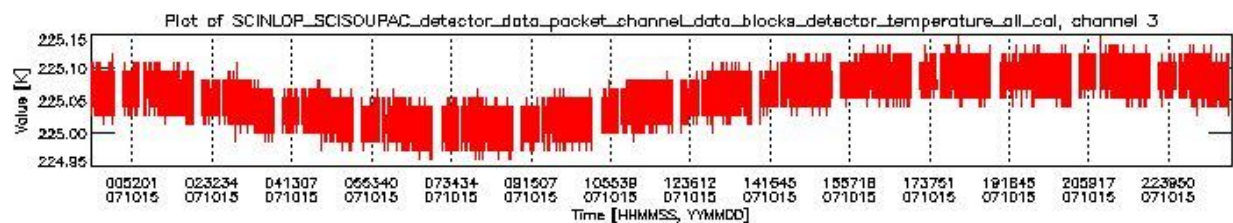
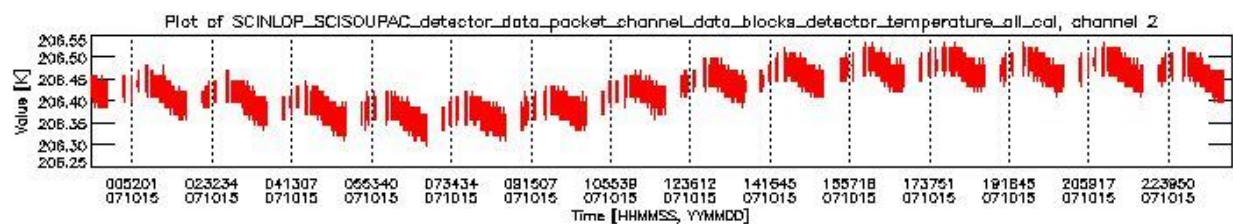
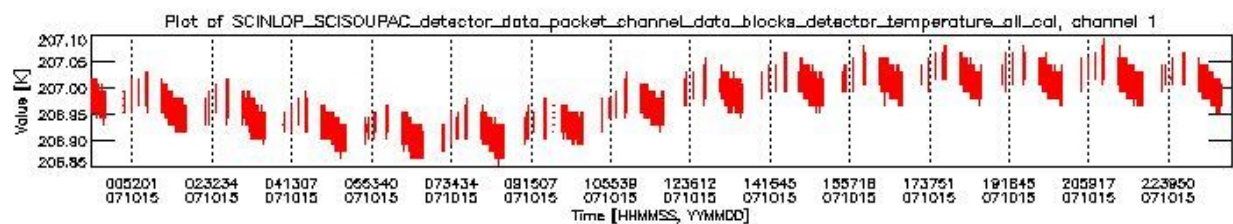
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071015\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071015\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071015\_3.PNG

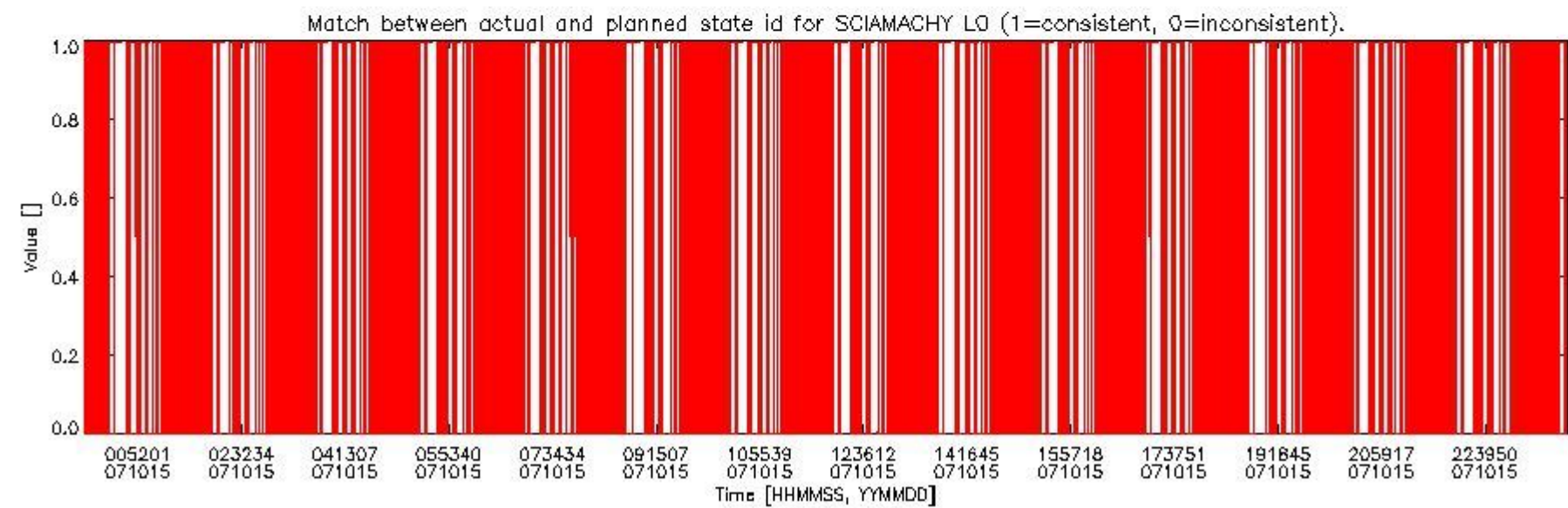
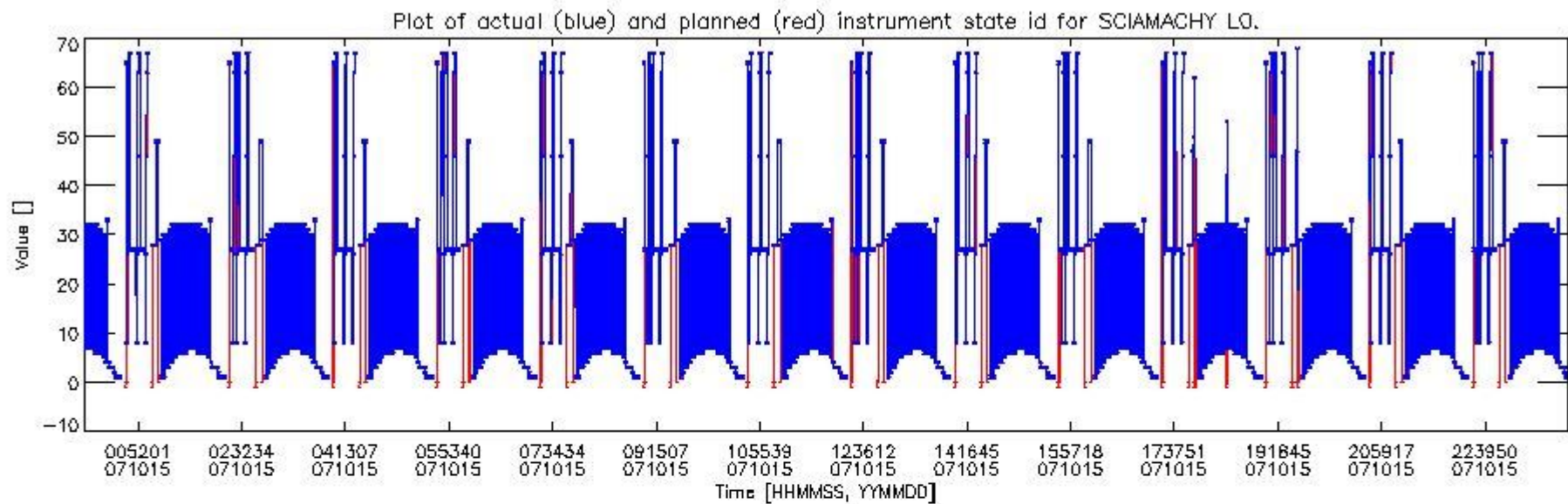


### 0.3 State monitoring

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: **30381**

#	Actual time	Actual value	Planned time	Planned value
0	15OCT2007 00:00:50.963674	32	15OCT2007 00:00:50.963674	7
1	15OCT2007 00:00:51.588696	32	15OCT2007 00:00:51.588696	7
2	15OCT2007 00:00:51.963709	32	15OCT2007 00:00:51.963709	7
3	15OCT2007 00:00:52.338682	32	15OCT2007 00:00:52.338682	7
4	15OCT2007 00:00:52.901182	32	15OCT2007 00:00:52.901182	7
5	15OCT2007 00:00:53.276195	32	15OCT2007 00:00:53.276195	7
6	15OCT2007 00:00:53.651208	32	15OCT2007 00:00:53.651208	7
7	15OCT2007 00:00:54.026181	32	15OCT2007 00:00:54.026181	7
8	15OCT2007 00:00:54.588680	32	15OCT2007 00:00:54.588680	7
9	15OCT2007 00:00:54.963693	32	15OCT2007 00:00:54.963693	7
10	15OCT2007 00:00:55.338706	32	15OCT2007 00:00:55.338706	7
11	15OCT2007 00:00:55.713679	32	15OCT2007 00:00:55.713679	7
12	15OCT2007 00:00:55.963688	32	15OCT2007 00:00:55.963688	7
13	15OCT2007 00:00:56.276178	32	15OCT2007 00:00:56.276178	7
14	15OCT2007 00:00:56.651191	32	15OCT2007 00:00:56.651191	7
15	15OCT2007 00:00:57.026204	32	15OCT2007 00:00:57.026204	7
16	15OCT2007 00:00:57.401177	32	15OCT2007 00:00:57.401177	7
17	15OCT2007 00:01:46.838688	7	15OCT2007 00:01:46.838688	32
18	15OCT2007 00:01:47.213701	7	15OCT2007 00:01:47.213701	32
19	15OCT2007 00:01:47.463710	7	15OCT2007 00:01:47.463710	32
...	...	...	...	...

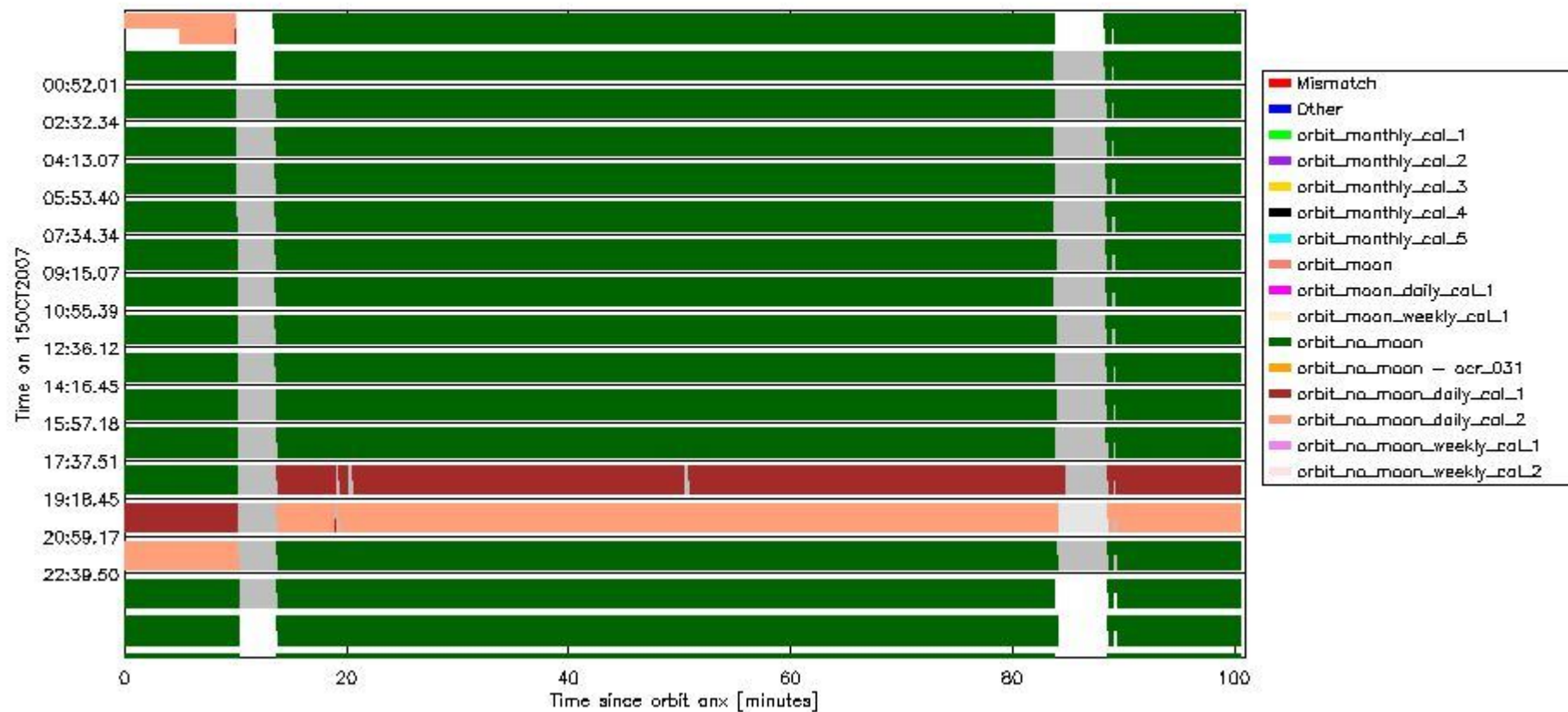


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071015\_5.PNG

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 15OCT2007.  
 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\_20071015\_6.PNG

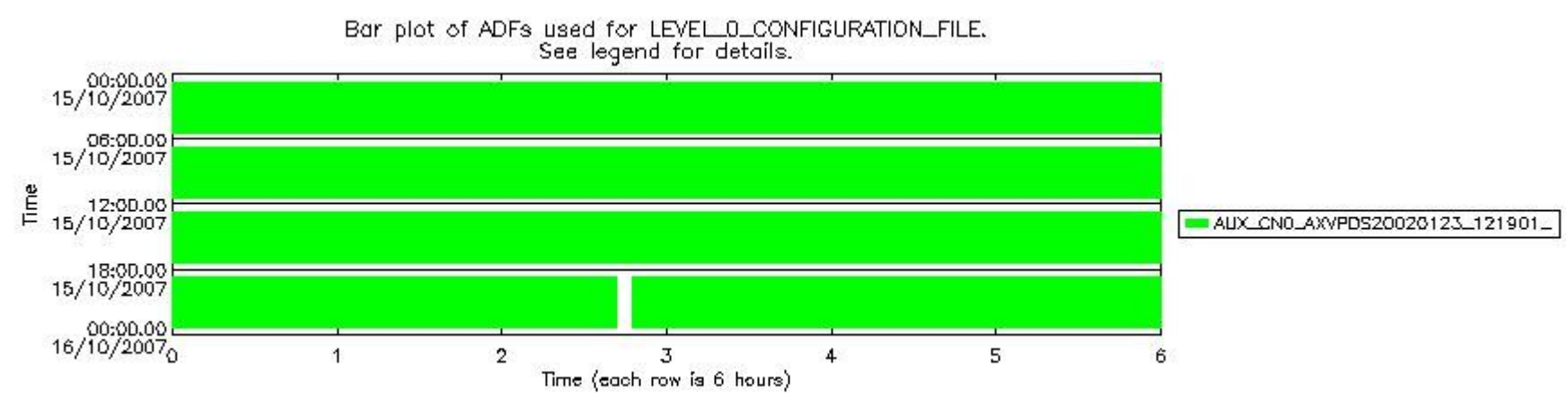
## 0.4 ADF monitoring

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

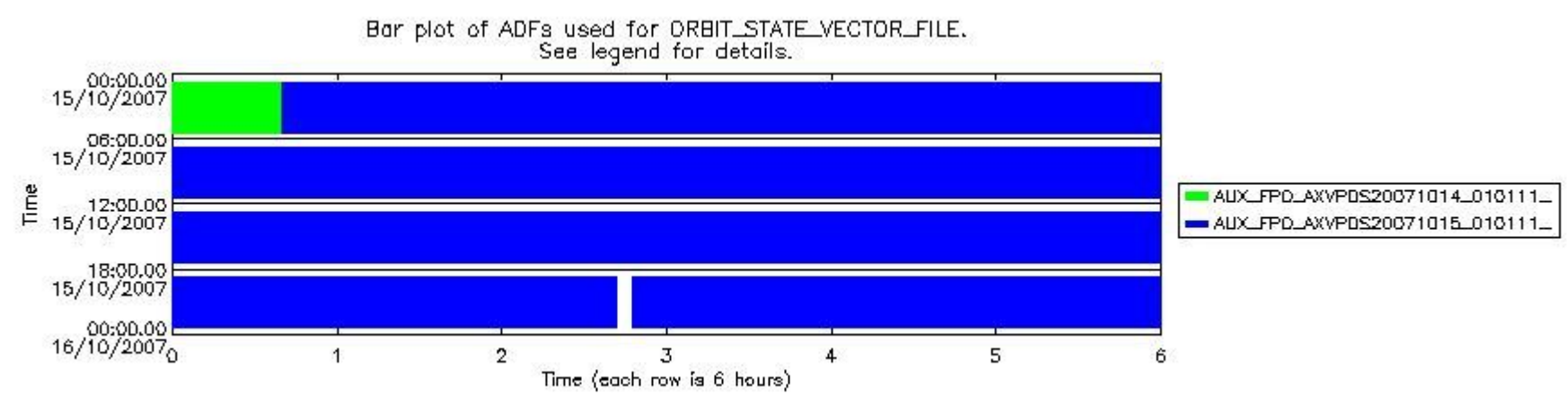
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

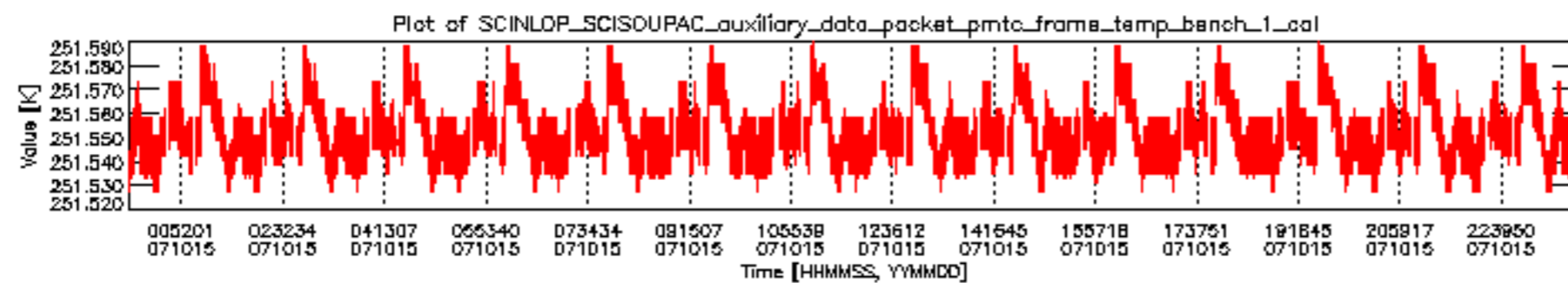
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
<b>1</b>	<b>AUX_FPO_AXVPDS20071014_010111_20071013_184113_20071023_200727</b>
<b>2</b>	<b>AUX_FPO_AXVPDS20071015_010111_20071014_195012_20071024_211625</b>



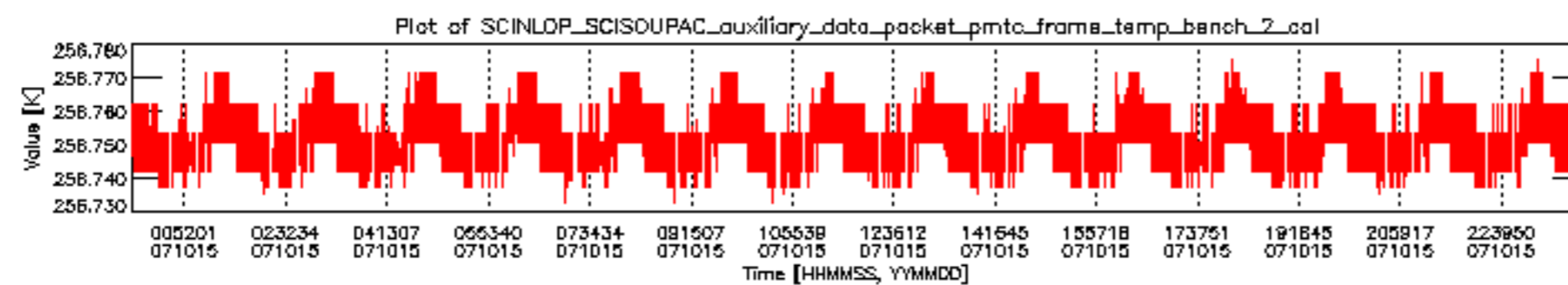
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071015\_7.PNG

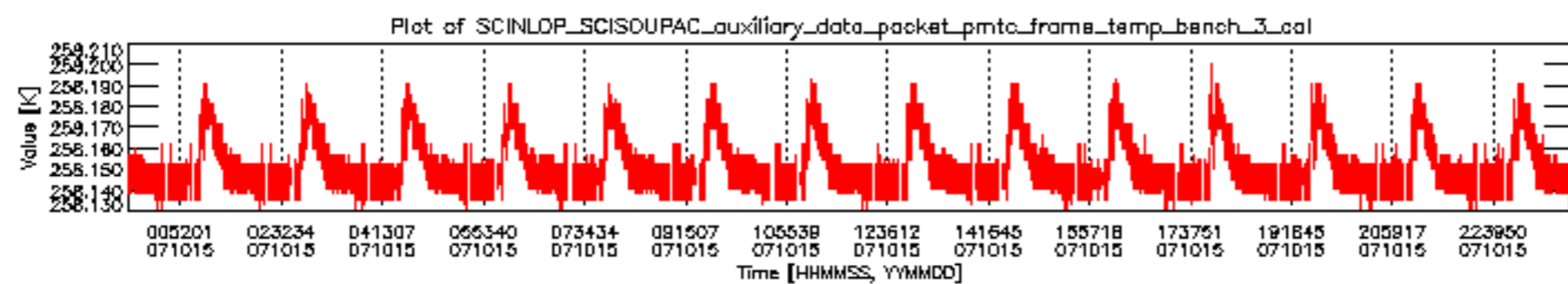


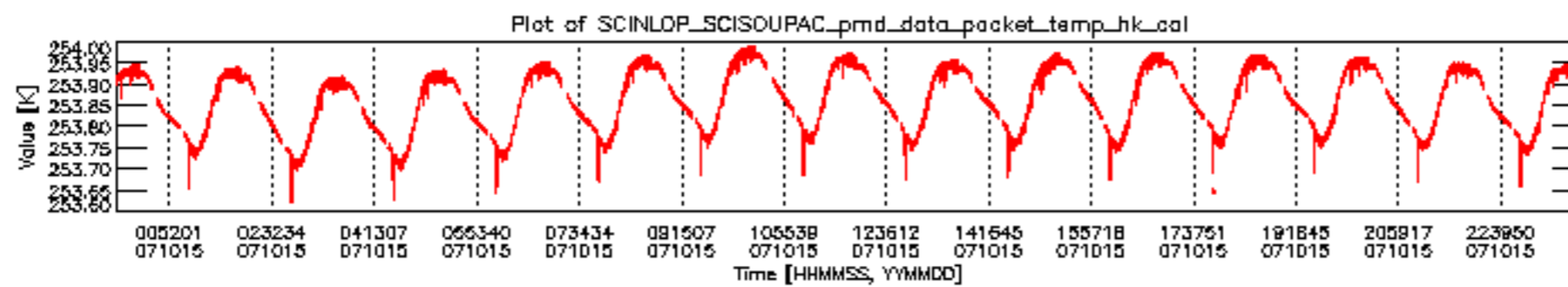
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071015\_8.PNG

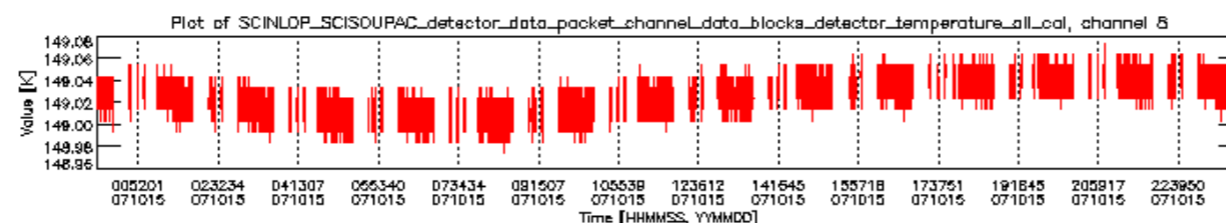
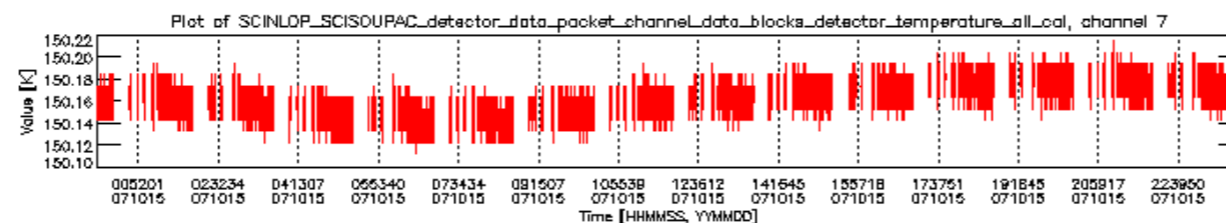
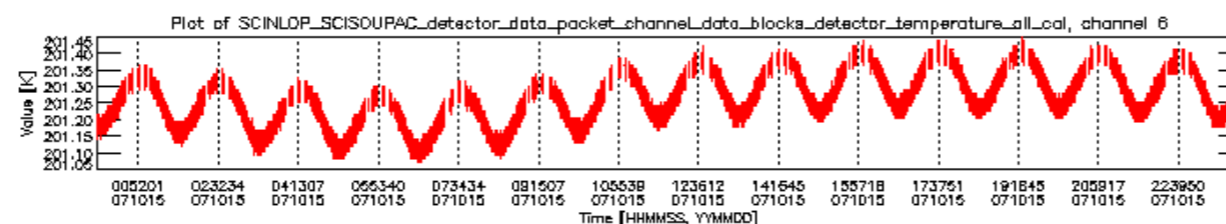
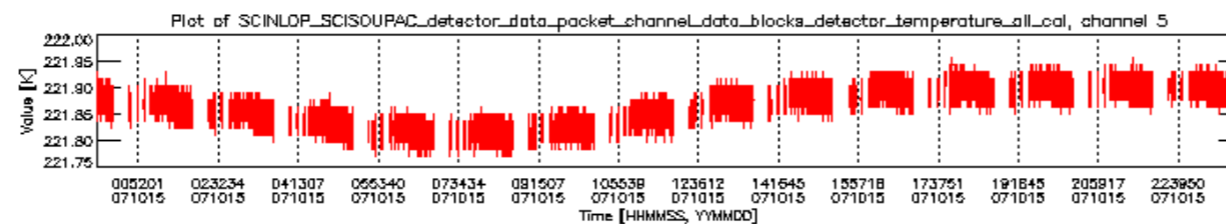
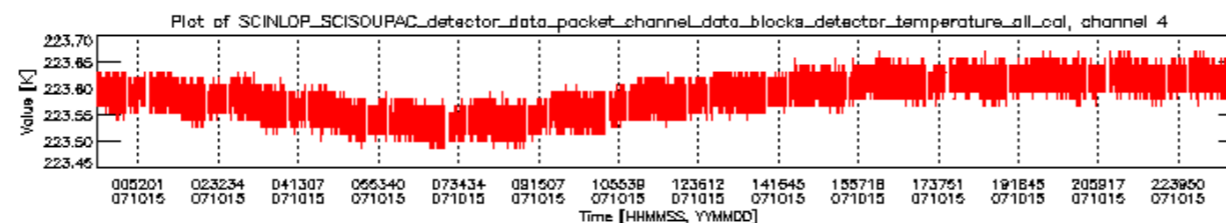
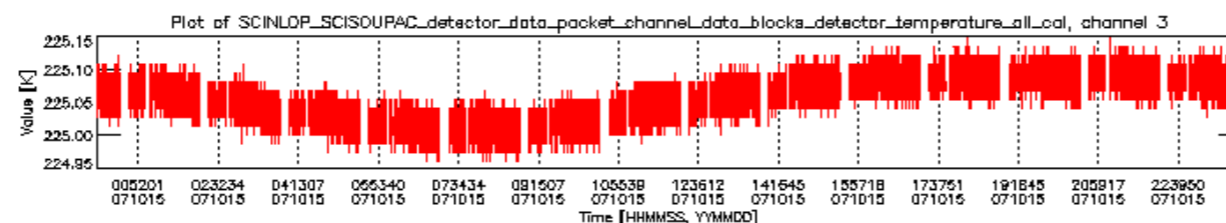
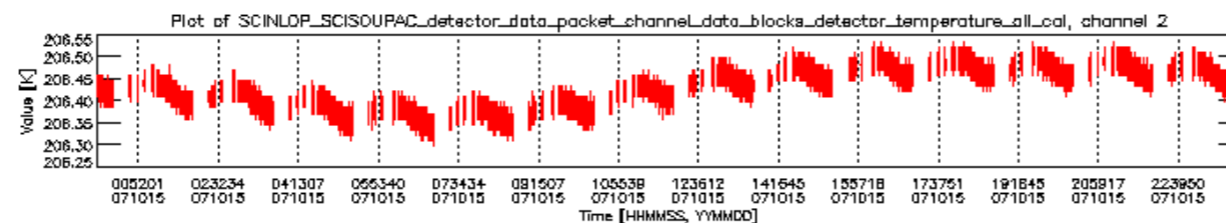
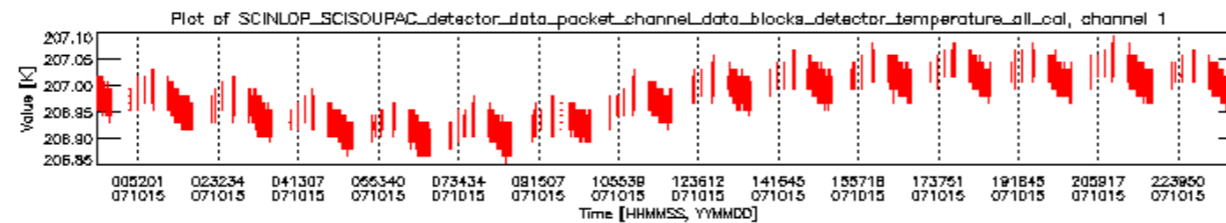






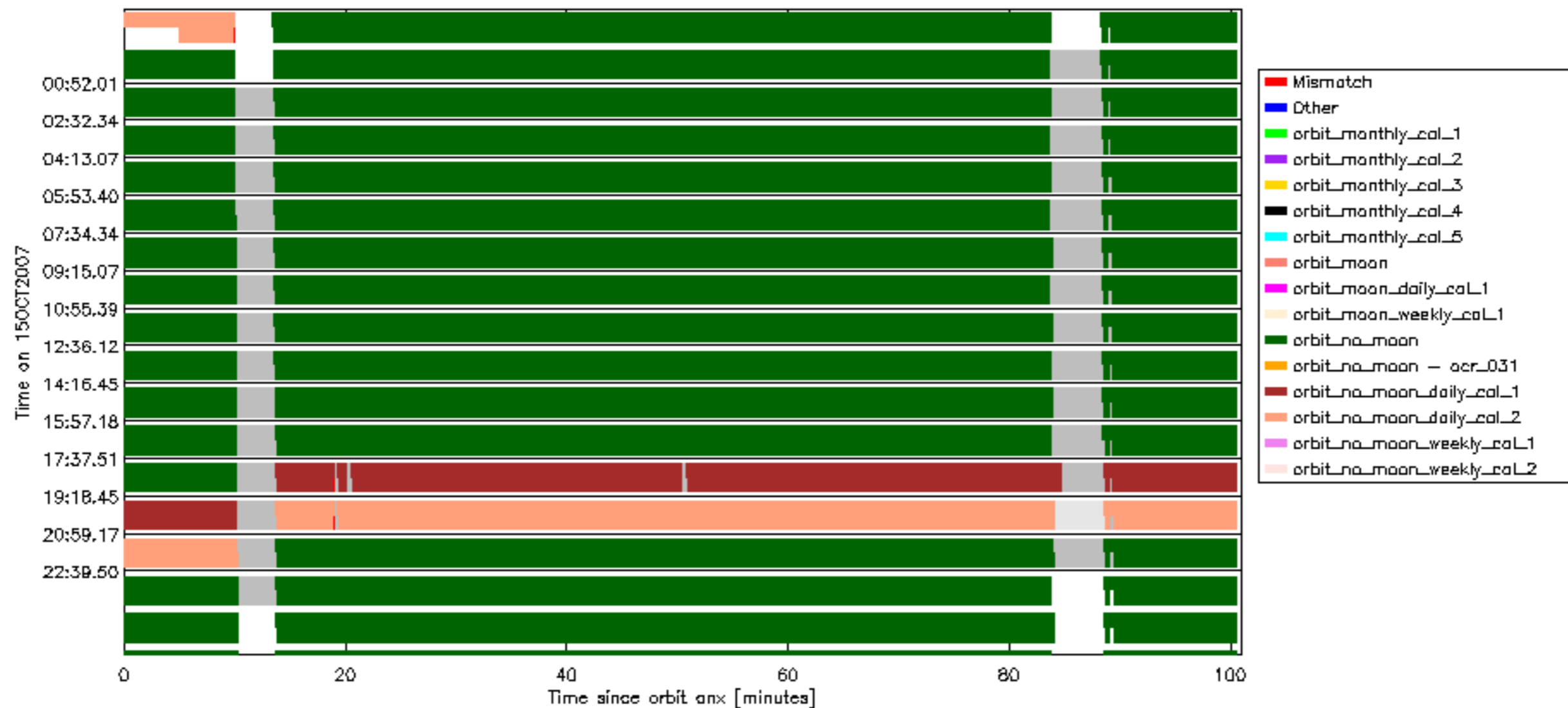


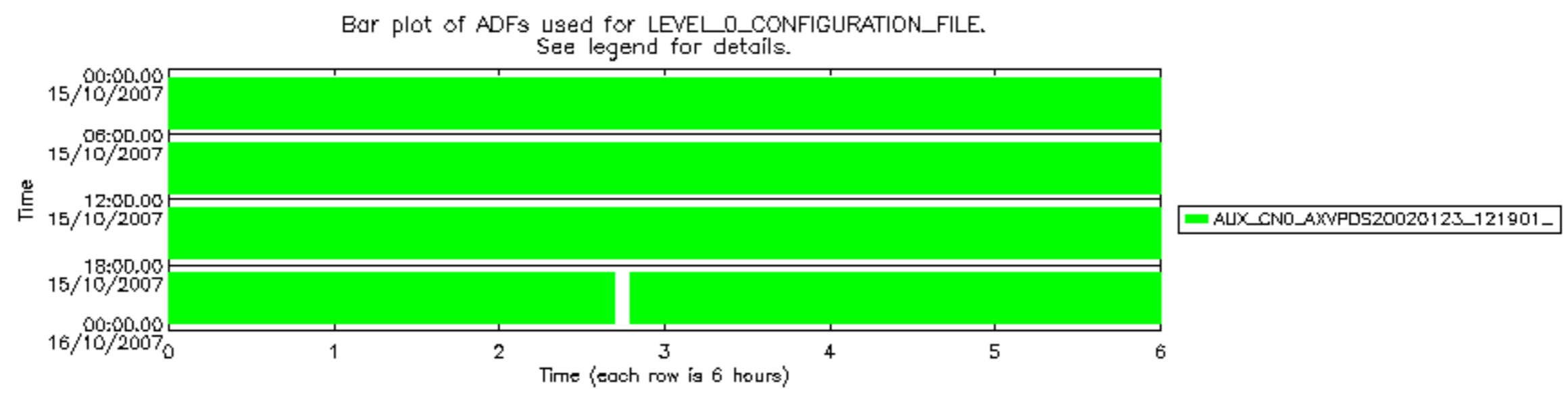






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 15OCT2007.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.





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

