

## 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	26NOV2007 10:43:05
Data source version	KSPT_L0/4302-N
Processing scope for products	22NOV2007 00:00:00 to 23NOV2007 00:00:00
Start time of first product within scope	21NOV2007 23:08:48
Stop time of last product within scope	23NOV2007 00:13:16
Total number of level 0 products	16
Number of level 0 products with errors	0

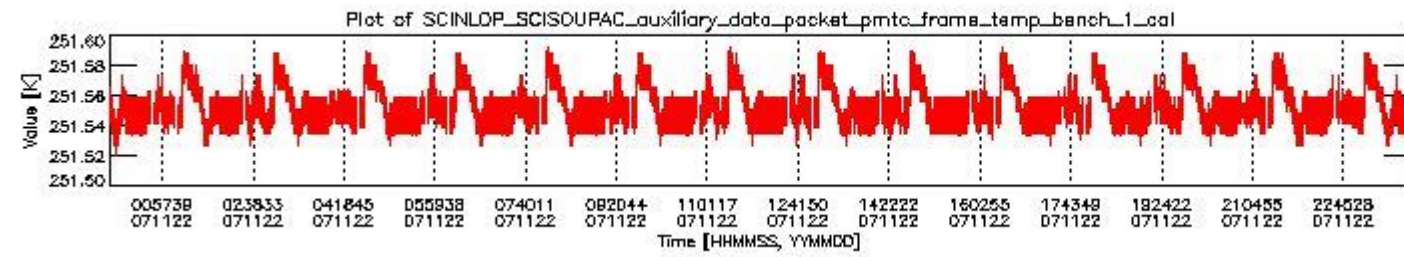
### 0.1.2 Summary per product

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

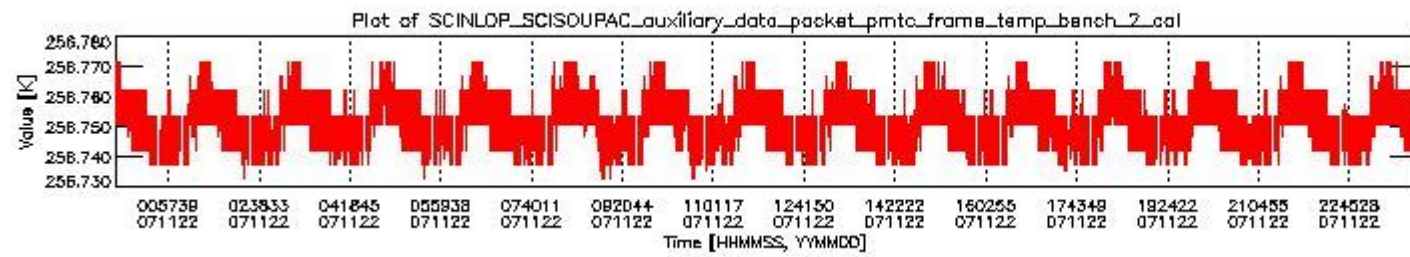
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071122_230848_000056832063_00330_29943_5626.N1	21NOV2007 23:08:48	22NOV2007 00:43:30	0	0	0	0	0
1	SCI_NL__OPNPDE20071122_004924_000055652063_00331_29944_5627.N1	22NOV2007 00:49:24	22NOV2007 02:22:09	0	0	0	0	0
2	SCI_NL__OPNPDE20071122_022100_000045282063_00332_29945_5628.N1	22NOV2007 02:21:00	22NOV2007 03:36:29	0	0	0	0	0
3	SCI_NL__OPNPDE20071122_033629_000061612063_00333_29946_5629.N1	22NOV2007 03:36:29	22NOV2007 05:19:09	0	0	0	0	0
4	SCI_NL__OPNPDE20071122_051909_000060362063_00334_29947_5630.N1	22NOV2007 05:19:09	22NOV2007 06:59:46	0	0	0	0	0
5	SCI_NL__OPNPDK20071122_065946_000040452063_00335_29948_6696.N1	22NOV2007 06:59:46	22NOV2007 08:07:11	0	0	0	0	0
6	SCI_NL__OPNPDK20071122_080519_000060922063_00336_29949_6697.N1	22NOV2007 08:05:19	22NOV2007 09:46:51	0	0	0	0	0
7	SCI_NL__OPNPDK20071122_094555_000061482063_00337_29950_6698.N1	22NOV2007 09:45:55	22NOV2007 11:28:23	0	0	0	0	0
8	SCI_NL__OPNPDK20071122_112727_000060362063_00338_29951_6699.N1	22NOV2007 11:27:27	22NOV2007 13:08:03	0	0	0	0	0
9	SCI_NL__OPNPDK20071122_130708_000059242063_00339_29952_6700.N1	22NOV2007 13:07:08	22NOV2007 14:45:52	0	0	0	0	0
10	SCI_NL__OPNPDK20071122_144334_000060362063_00340_29953_6701.N1	22NOV2007 14:43:34	22NOV2007 16:24:10	0	0	0	0	0
11	SCI_NL__OPNPDK20071122_162410_000058682063_00341_29954_6702.N1	22NOV2007 16:24:10	22NOV2007 18:01:58	0	0	0	0	0
12	SCI_NL__OPNPDK20071122_180102_000057452063_00342_29955_6703.N1	22NOV2007 18:01:02	22NOV2007 19:36:47	0	0	0	0	0
13	SCI_NL__OPNPDE20071122_194138_000040122063_00343_29956_5631.N1	22NOV2007 19:41:38	22NOV2007 20:48:30	0	0	0	0	0
14	SCI_NL__OPNPDE20071122_204722_000063142063_00343_29956_5632.N1	22NOV2007 20:47:22	22NOV2007 22:32:36	0	0	0	0	0
15	SCI_NL__OPNPDE20071122_223715_000057612063_00344_29957_5633.N1	22NOV2007 22:37:15	23NOV2007 00:13:16	0	0	0	0	0

## 0.2 Product Quality Indicators

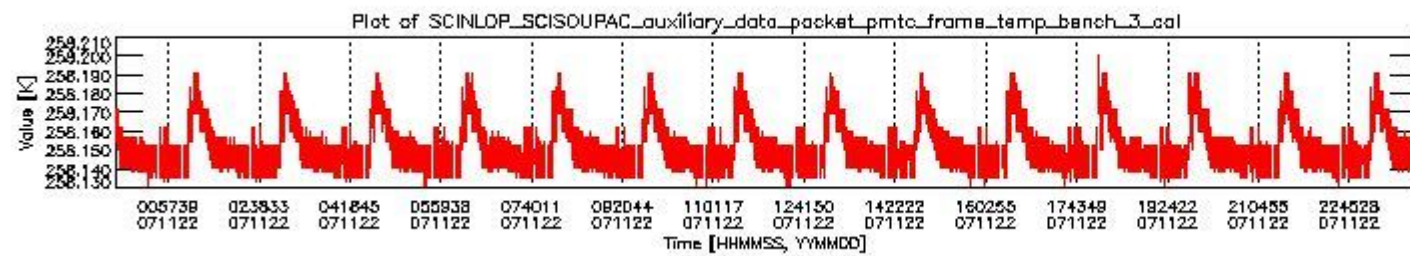
This section shows information about product quality, currently temperatures.



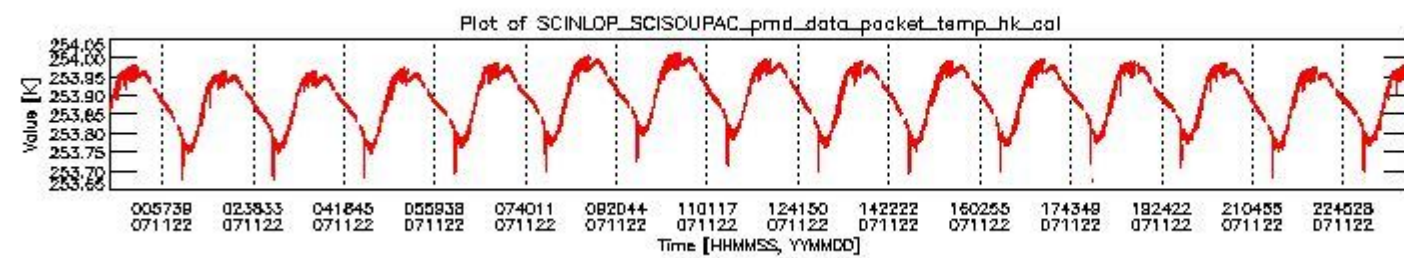
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071122\_0.PNG



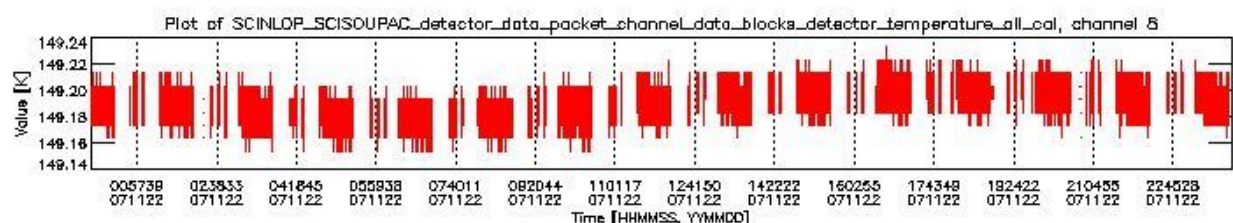
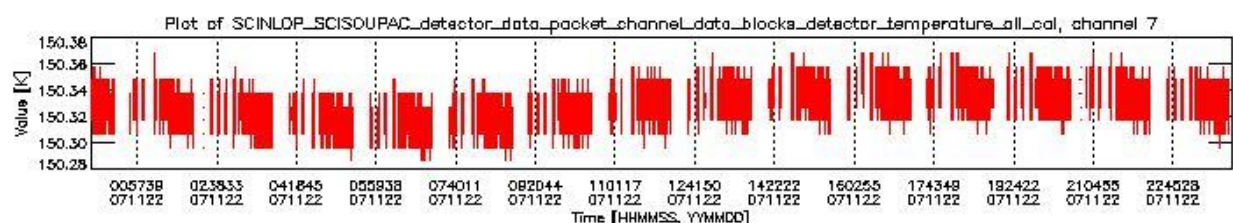
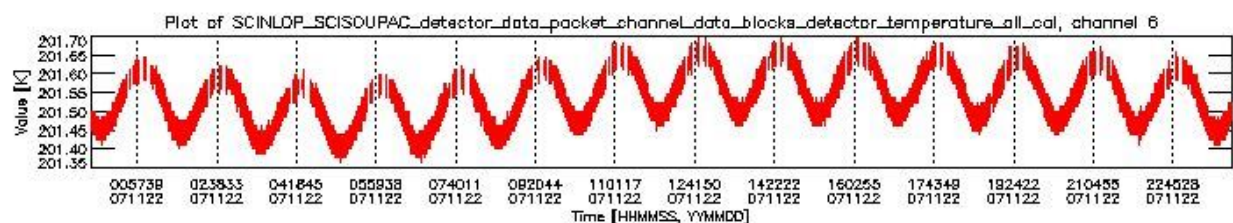
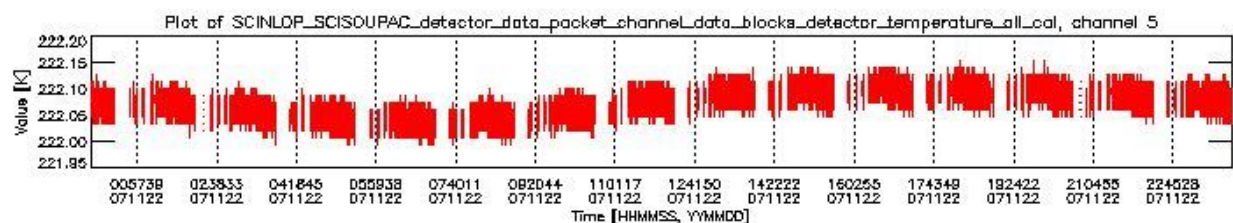
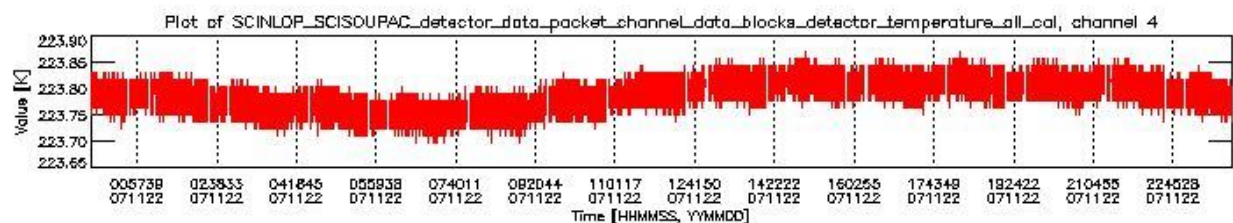
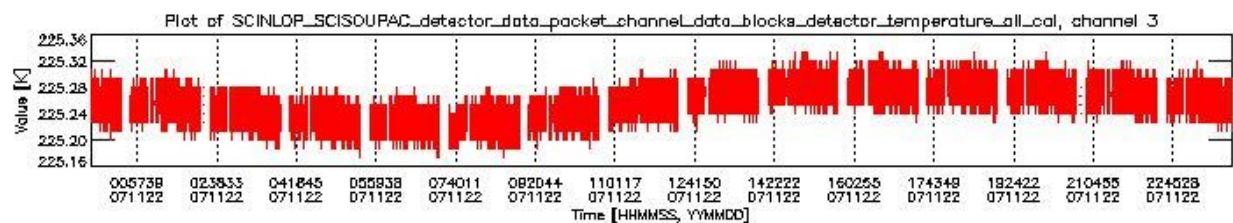
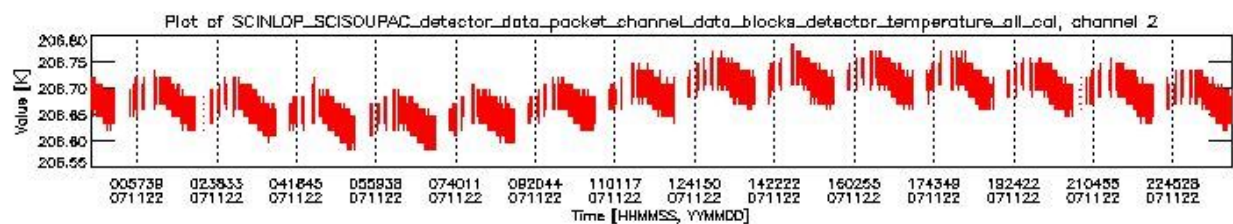
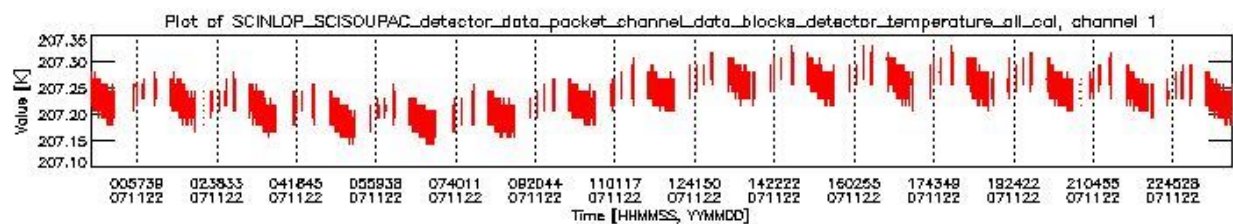
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071122\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071122\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071122\_3.PNG

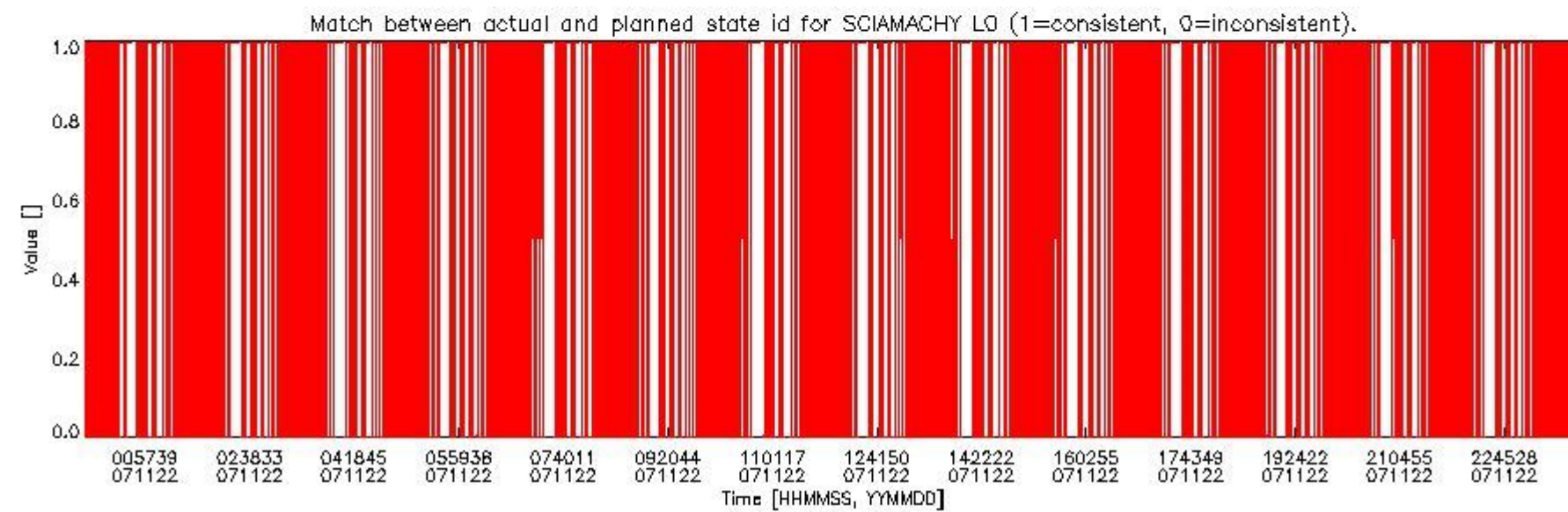
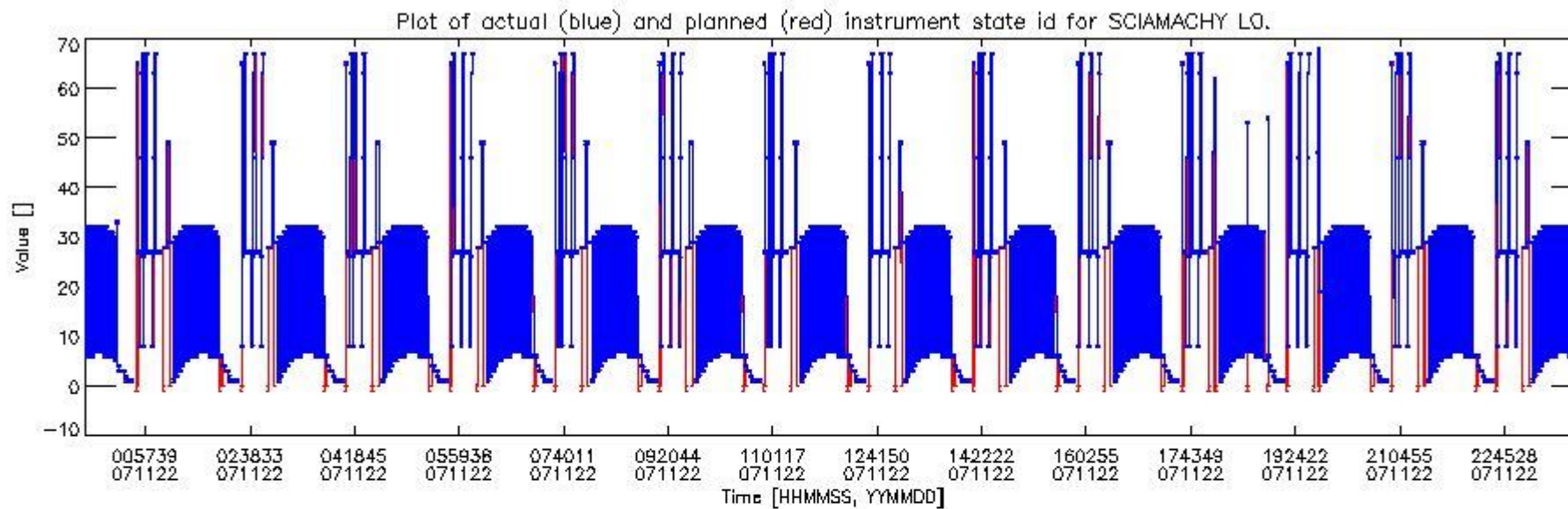


### 0.3 State monitoring

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: **40838**

#	Actual time	Actual value	Planned time	Planned value
0	22NOV2007 00:00:58.605717	32	22NOV2007 00:00:58.605717	6
1	22NOV2007 00:00:59.230739	32	22NOV2007 00:00:59.230739	6
2	22NOV2007 00:00:59.605712	32	22NOV2007 00:00:59.605712	6
3	22NOV2007 00:00:59.980725	32	22NOV2007 00:00:59.980725	6
4	22NOV2007 00:01:00.543224	32	22NOV2007 00:01:00.543224	6
5	22NOV2007 00:01:00.918237	32	22NOV2007 00:01:00.918237	6
6	22NOV2007 00:01:01.293210	32	22NOV2007 00:01:01.293210	6
7	22NOV2007 00:01:01.668223	32	22NOV2007 00:01:01.668223	6
8	22NOV2007 00:01:02.230723	32	22NOV2007 00:01:02.230723	6
9	22NOV2007 00:01:02.605736	32	22NOV2007 00:01:02.605736	6
10	22NOV2007 00:01:02.980708	32	22NOV2007 00:01:02.980708	6
11	22NOV2007 00:01:03.355722	32	22NOV2007 00:01:03.355722	6
12	22NOV2007 00:01:03.605730	32	22NOV2007 00:01:03.605730	6
13	22NOV2007 00:01:03.918221	32	22NOV2007 00:01:03.918221	6
14	22NOV2007 00:01:04.293234	32	22NOV2007 00:01:04.293234	6
15	22NOV2007 00:01:04.668207	32	22NOV2007 00:01:04.668207	6
16	22NOV2007 00:01:05.043220	32	22NOV2007 00:01:05.043220	6
17	22NOV2007 00:01:05.605719	32	22NOV2007 00:01:05.605719	6
18	22NOV2007 00:01:05.980732	32	22NOV2007 00:01:05.980732	6
19	22NOV2007 00:01:06.355705	32	22NOV2007 00:01:06.355705	6
	...	...	...	...

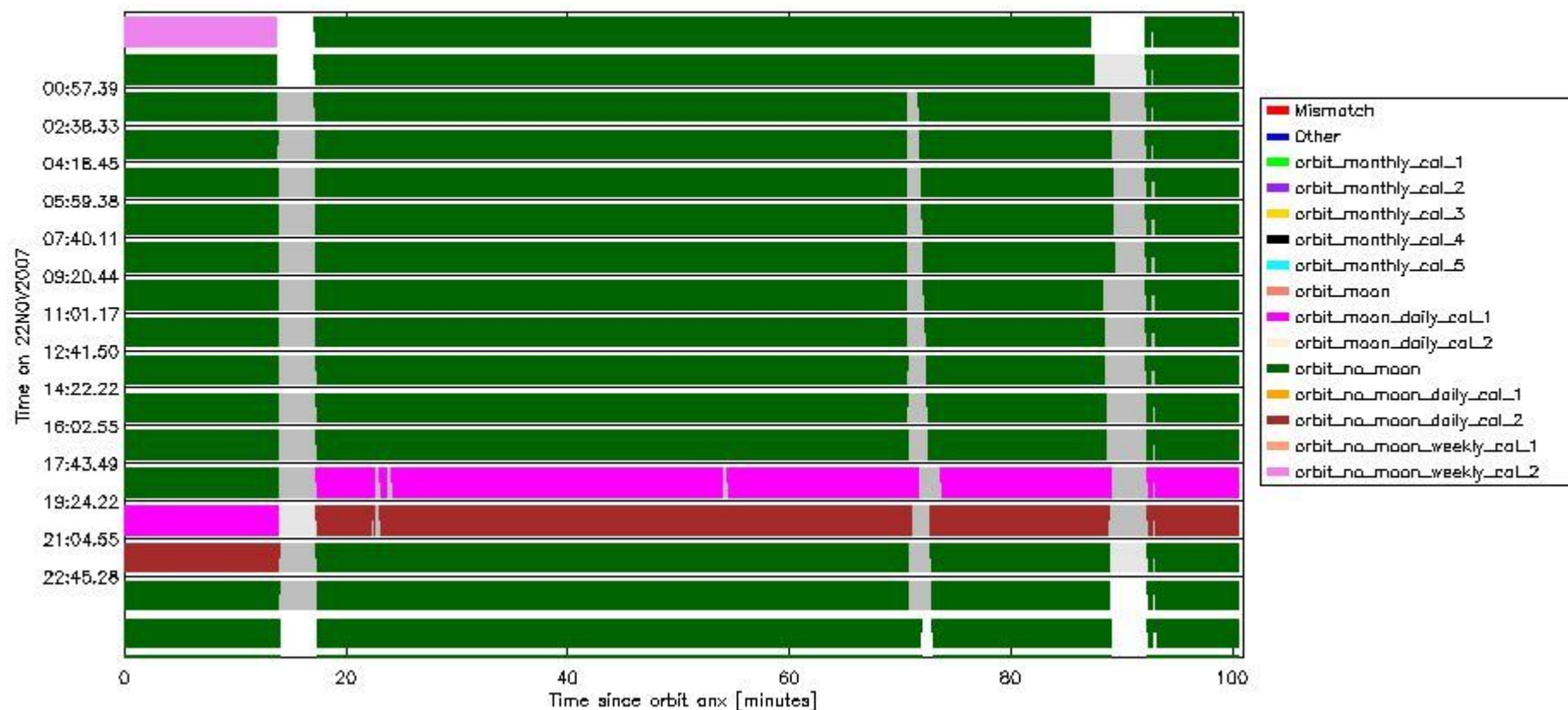


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071122\_5.PNG

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 22NOV2007.  
 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\_20071122\_6.PNG

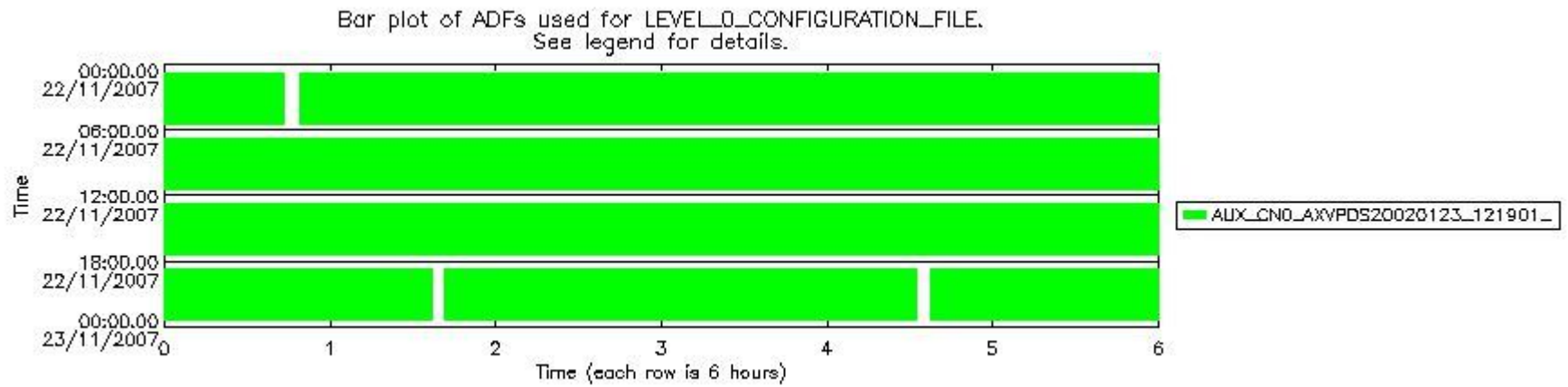
## 0.4 ADF monitoring

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

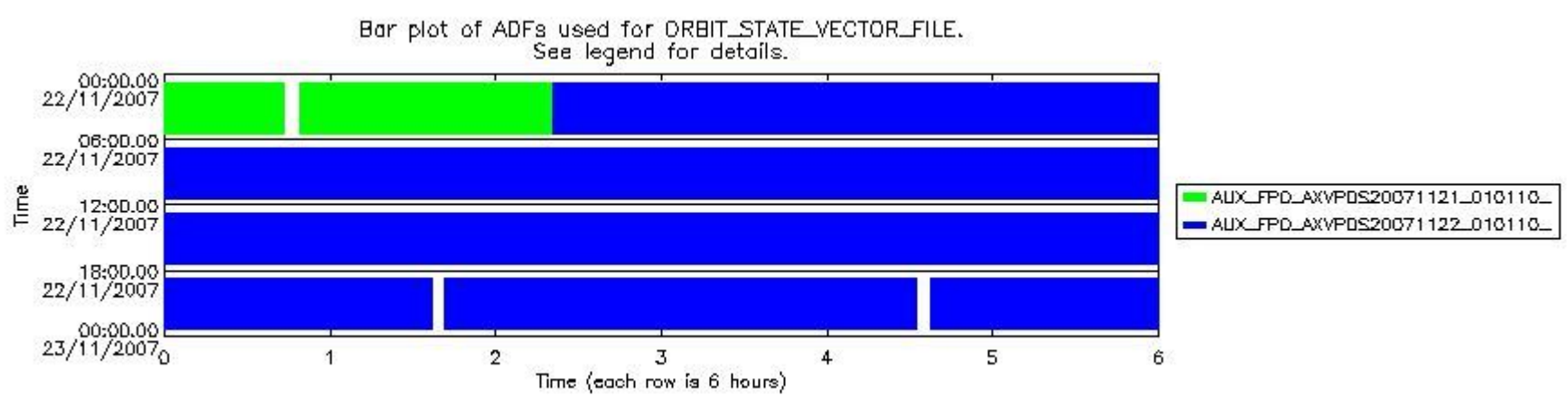
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

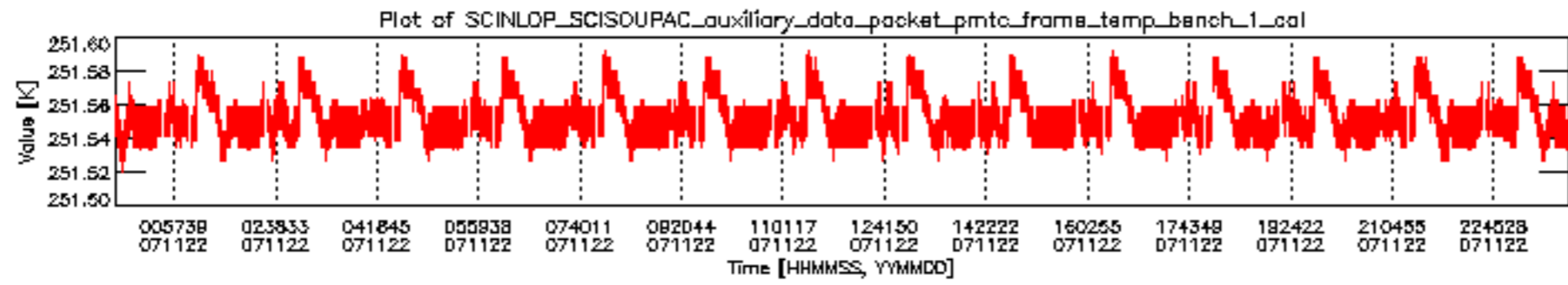
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20071121_010110_20071120_184656_20071130_201307
2	AUX_FPO_AXVPDS20071122_010110_20071121_195554_20071201_212206



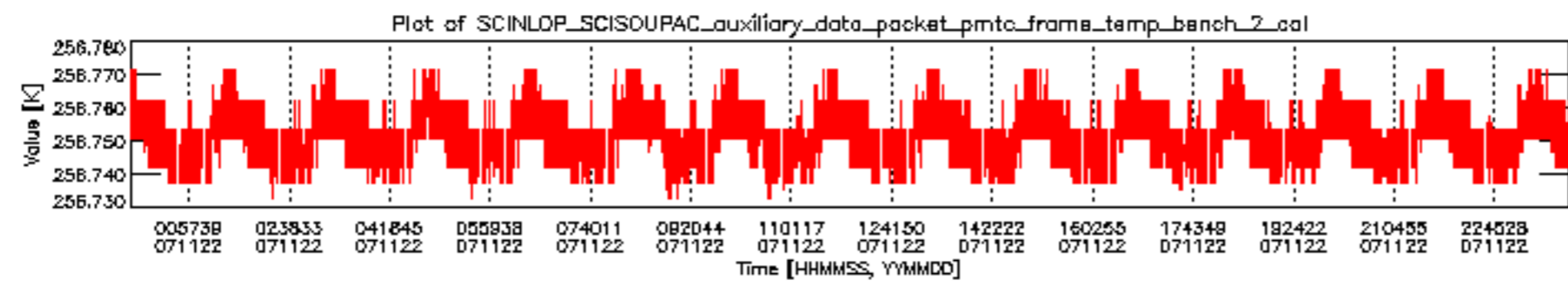
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071122\_7.PNG

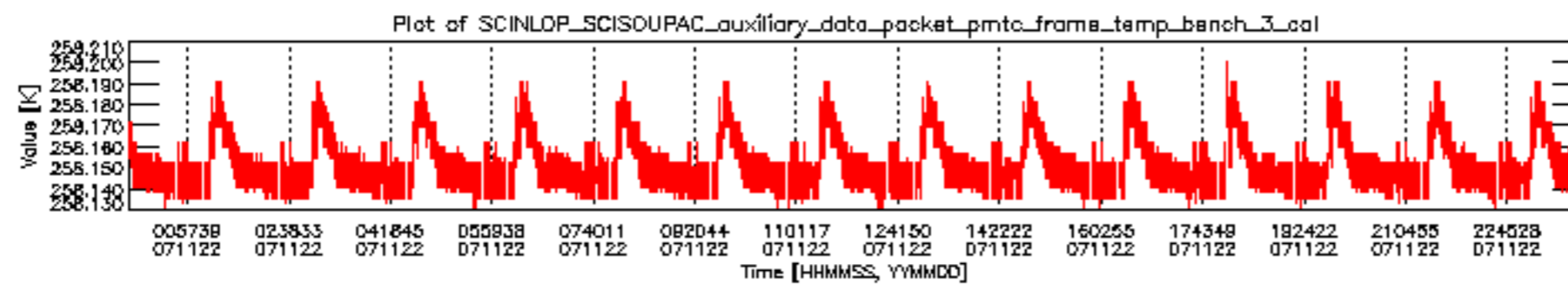


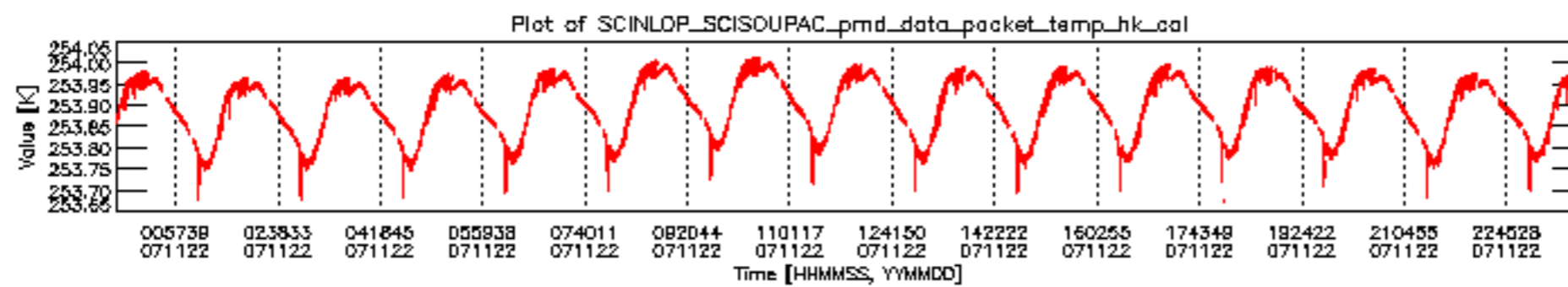
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071122\_8.PNG

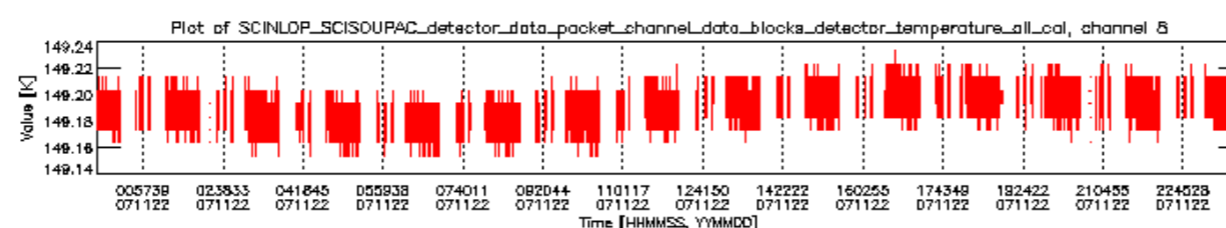
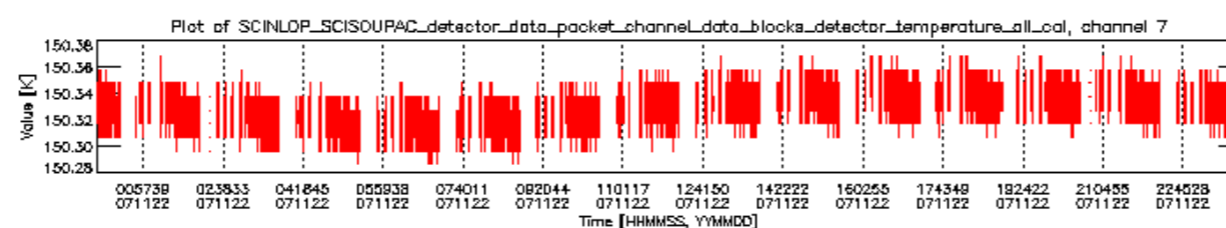
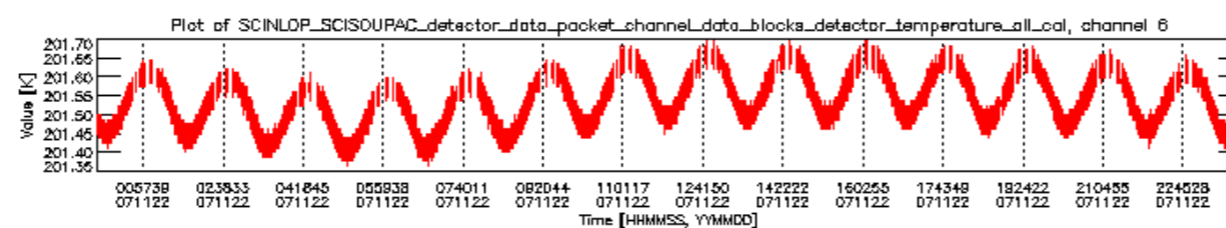
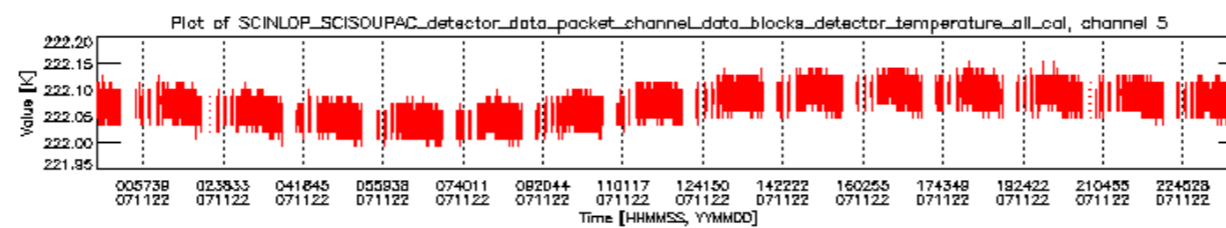
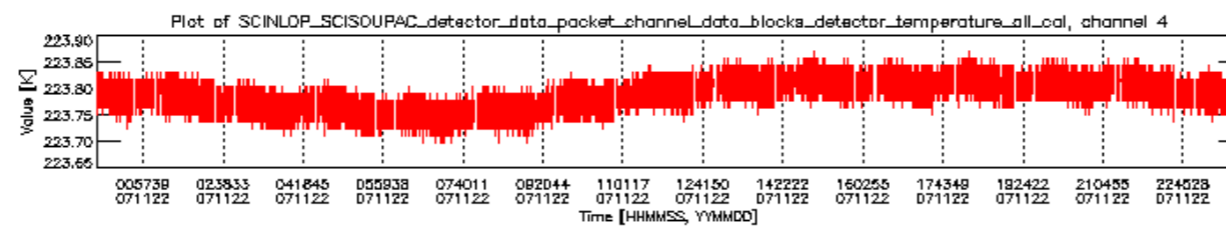
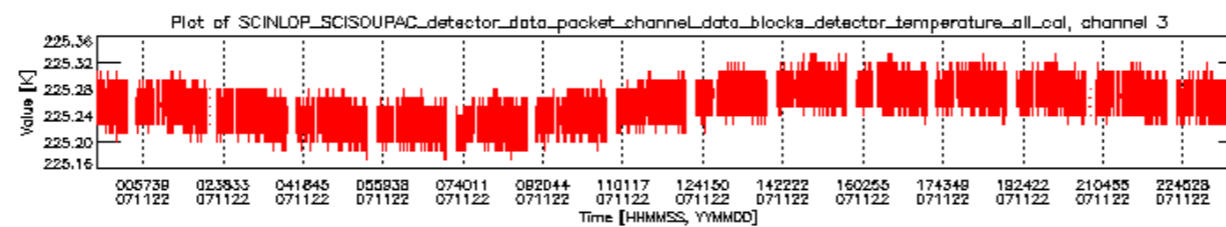
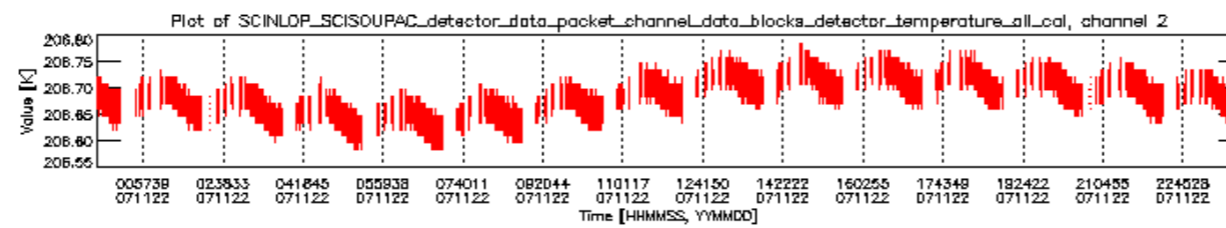
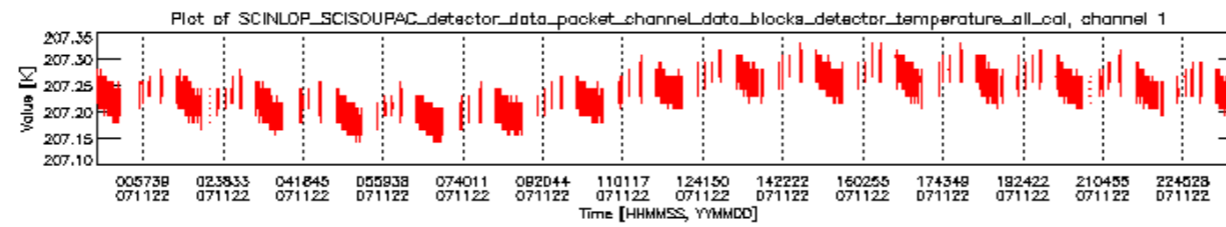


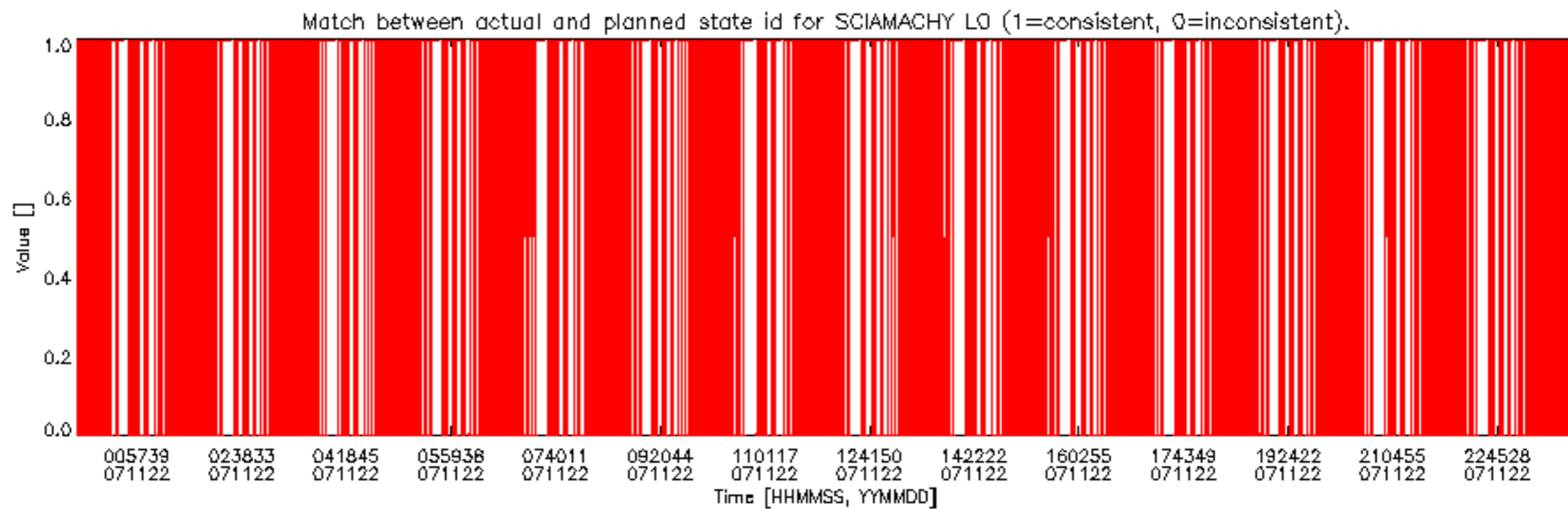
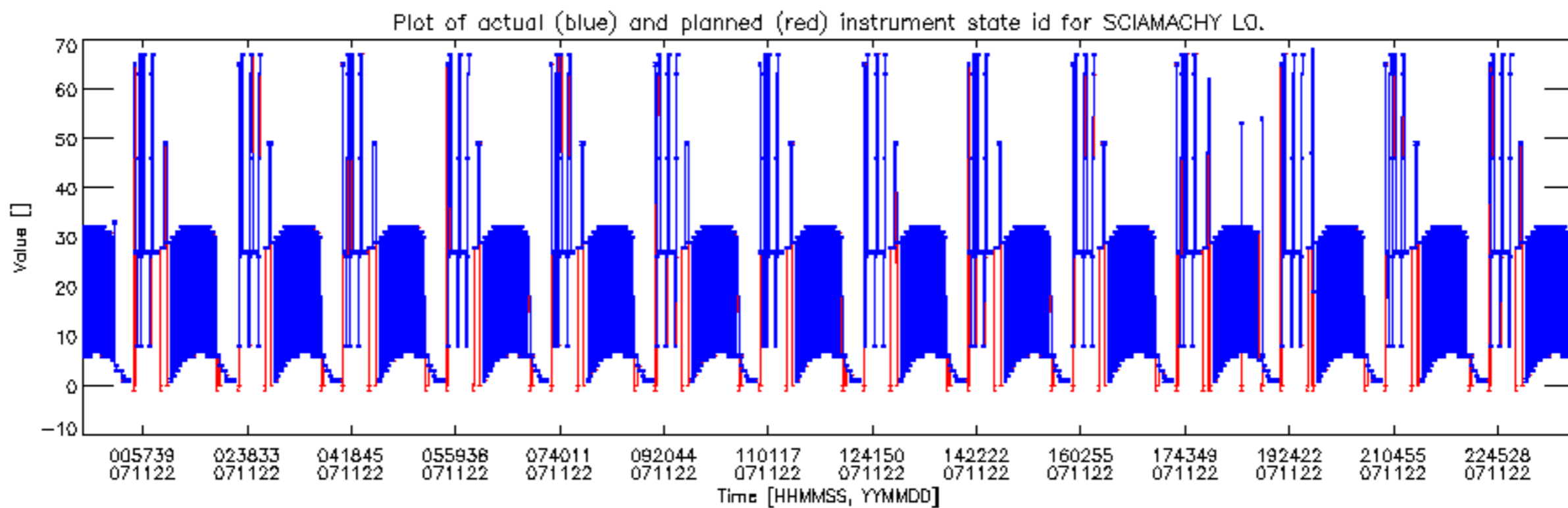




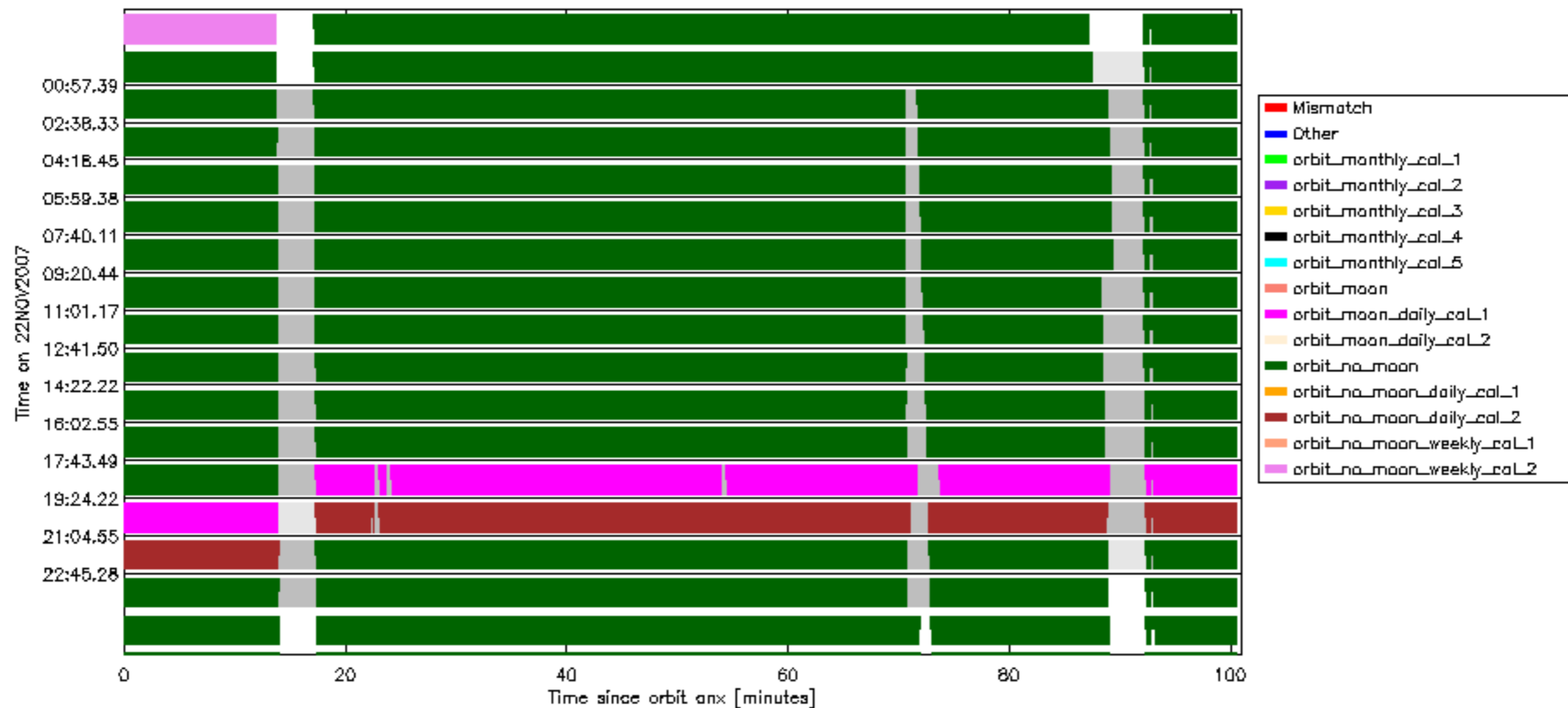


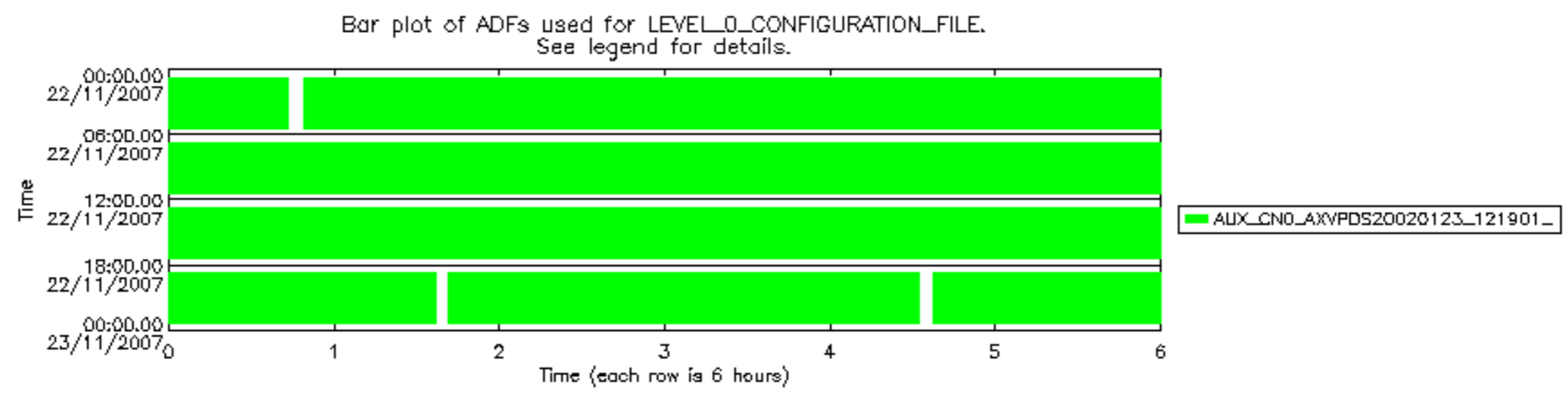






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 22NOV2007.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

