

## 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	05OCT2008 05:04:22
Data source version	KSPT_L0/4303-N
Processing scope for products	01OCT2008 00:00:00 to 02OCT2008 00:00:00
Start time of first product within scope	30SEP2008 23:35:49
Stop time of last product within scope	02OCT2008 00:46:59
Total number of level 0 products	16
Number of level 0 products with errors	1

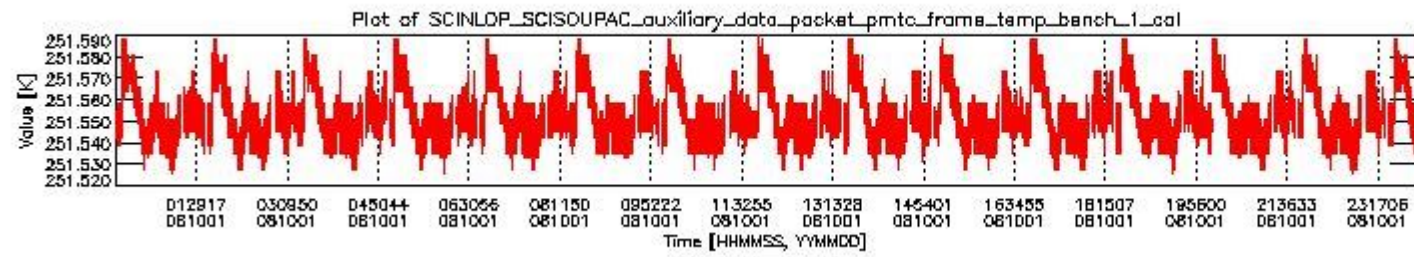
### 0.1.2 Summary per product

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

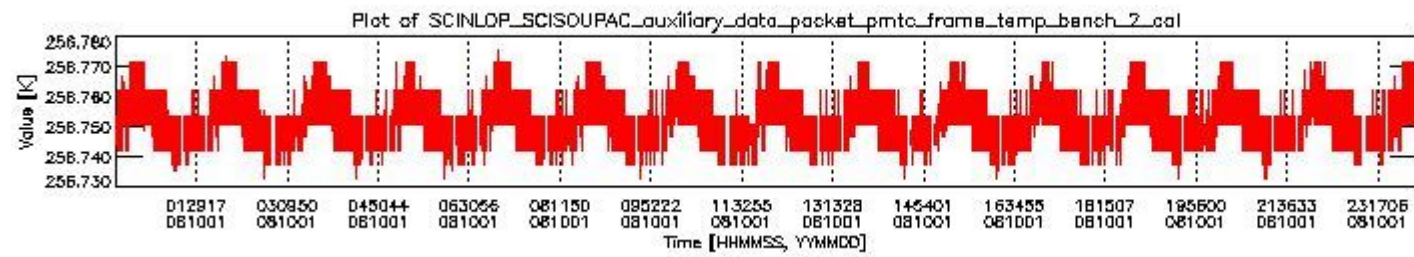
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080930_233549_000061272072_00316_34438_7614.N1	30SEP2008 23:35:49	01OCT2008 01:17:56	0	0	0	0	0
1	SCI_NL__OPNPDE20081001_011708_000046632072_00317_34439_7615.N1	01OCT2008 01:17:08	01OCT2008 02:34:51	0	0	0	0	0
2	SCI_NL__OPNPDE20081001_023343_000058432072_00318_34440_7616.N1	01OCT2008 02:33:43	01OCT2008 04:11:06	0	0	0	0	0
3	SCI_NL__OPNPDE20081001_041010_000060372072_00319_34441_7617.N1	01OCT2008 04:10:10	01OCT2008 05:50:47	0	0	0	0	0
4	SCI_NL__OPNPDE20081001_055047_000062172072_00320_34442_7618.N1	01OCT2008 05:50:47	01OCT2008 07:34:24	0	0	0	0	0
5	SCI_NL__OPNPDK20081001_073328_000039212072_00321_34443_9543.N1	01OCT2008 07:33:28	01OCT2008 08:38:49	0	0	0	0	0
6	SCI_NL__OPNPDK20081001_083753_000062172072_00322_34444_9544.N1	01OCT2008 08:37:53	01OCT2008 10:21:30	0	0	0	0	0
7	SCI_NL__OPNPDK20081001_102021_000059812072_00323_34445_9545.N1	01OCT2008 10:20:21	01OCT2008 12:00:02	0	0	0	0	0
8	SCI_NL__OPNPDK20081001_115906_000060242072_00324_34446_9546.N1	01OCT2008 11:59:06	01OCT2008 13:39:30	0	0	0	0	0
9	SCI_NL__OPNPDK20081001_133834_000059122072_00325_34447_9547.N1	01OCT2008 13:38:34	01OCT2008 15:17:06	0	0	0	0	0
10	SCI_NL__OPNPDK20081001_151502_000060372072_00326_34448_9548.N1	01OCT2008 15:15:02	01OCT2008 16:55:38	1	1	1	0	0
11	SCI_NL__OPNPDK20081001_165346_000060012072_00327_34449_9549.N1	01OCT2008 16:53:46	01OCT2008 18:33:47	0	0	0	0	0
12	SCI_NL__OPNPDK20081001_183306_000059192072_00328_34450_9550.N1	01OCT2008 18:33:06	01OCT2008 20:11:46	0	0	0	0	0
13	SCI_NL__OPNPDE20081001_201049_000043302072_00329_34451_7619.N1	01OCT2008 20:10:49	01OCT2008 21:22:59	0	0	0	0	0
14	SCI_NL__OPNPDE20081001_212259_000061682072_00329_34451_7620.N1	01OCT2008 21:22:59	01OCT2008 23:05:47	0	0	0	0	0
15	SCI_NL__OPNPDE20081001_230503_000061172072_00330_34452_7621.N1	01OCT2008 23:05:03	02OCT2008 00:46:59	0	0	0	0	0

## 0.2 Product Quality Indicators

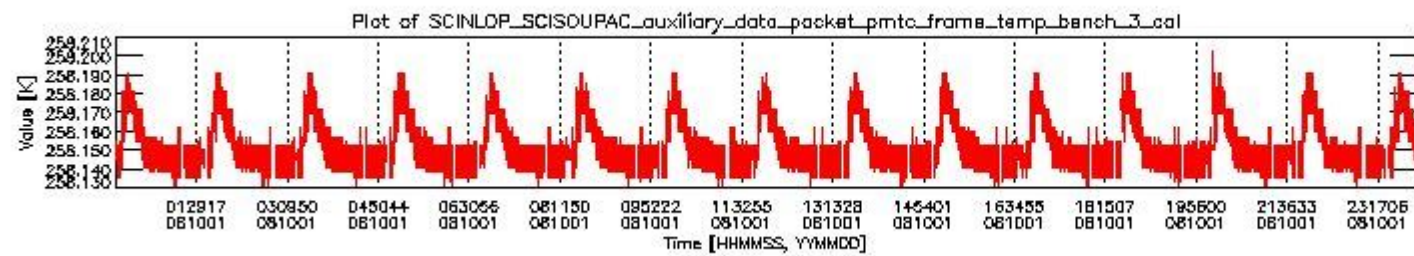
This section shows information about product quality, currently temperatures.



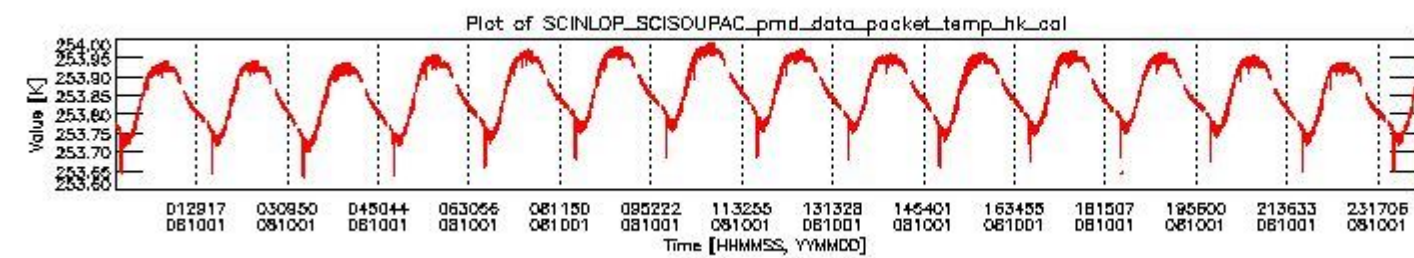
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081001\_0.PNG



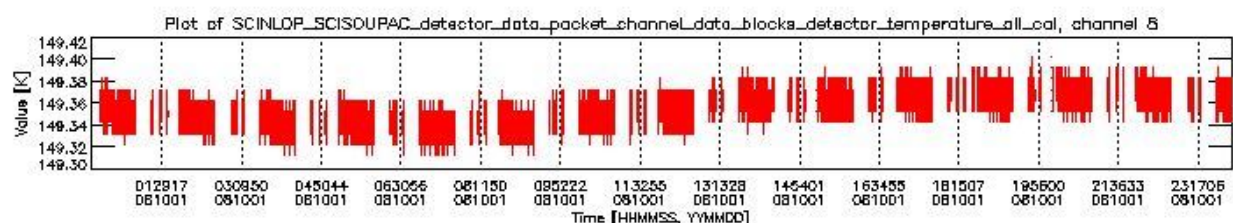
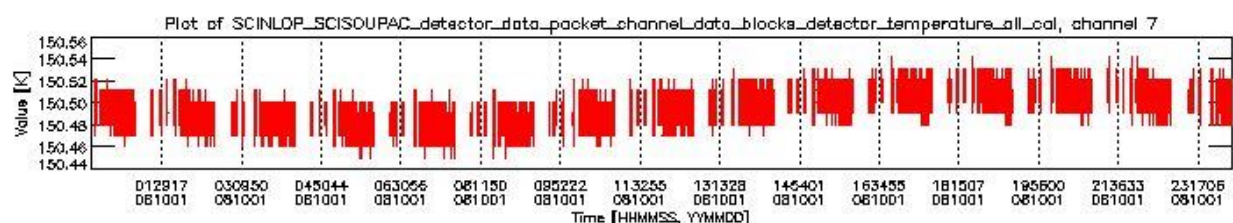
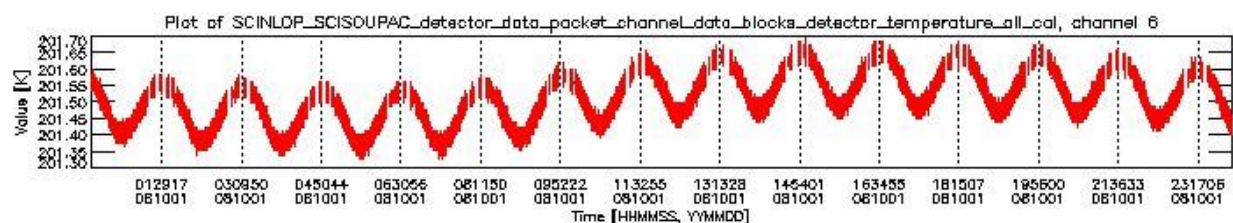
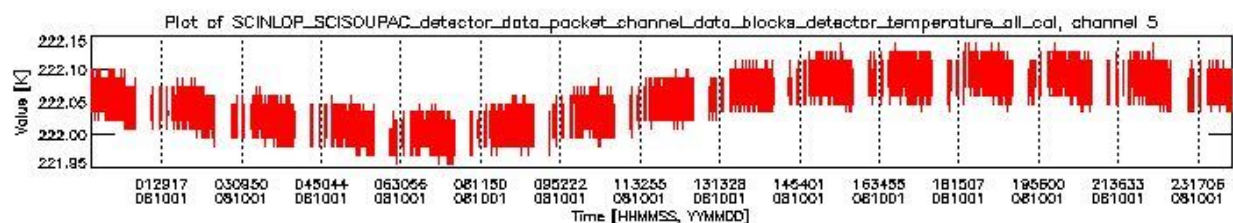
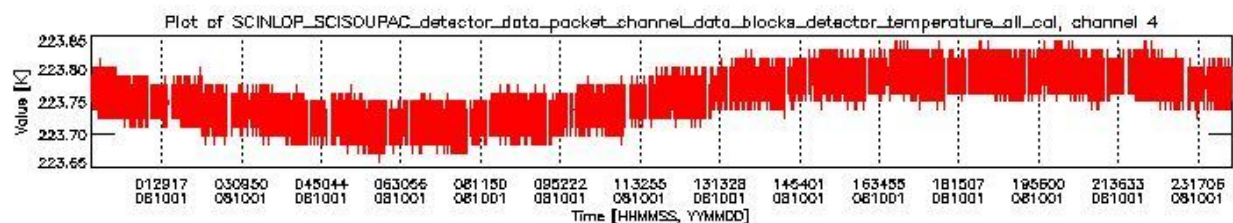
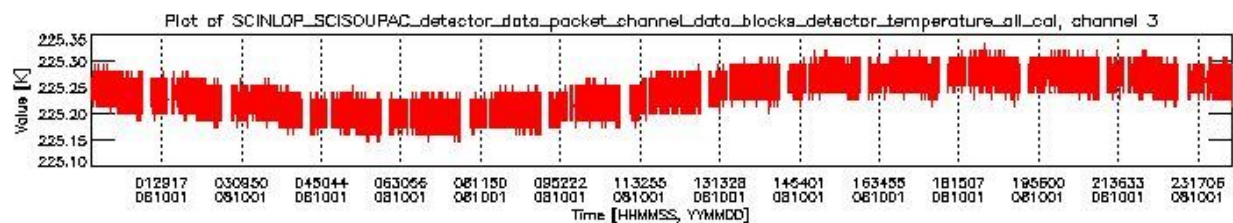
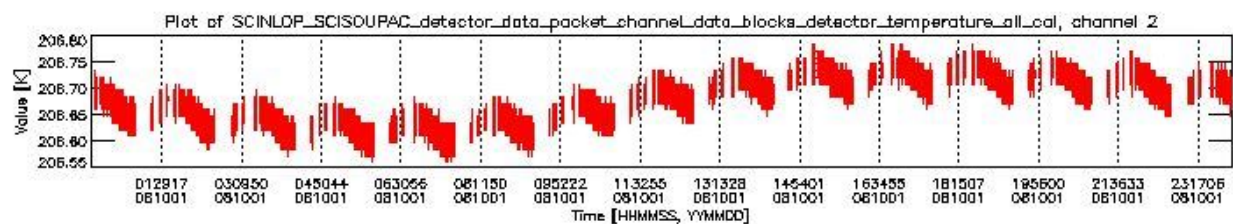
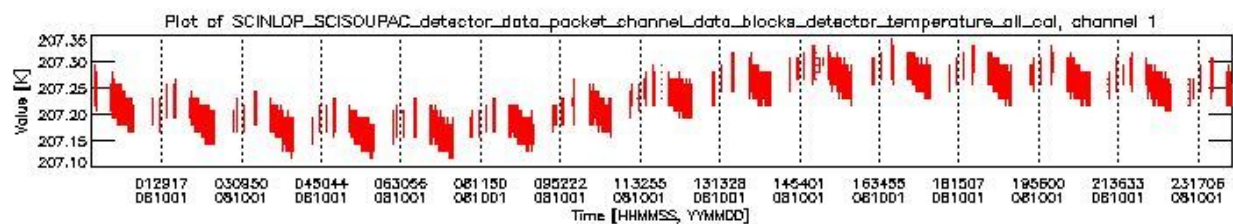
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081001\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081001\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081001\_3.PNG

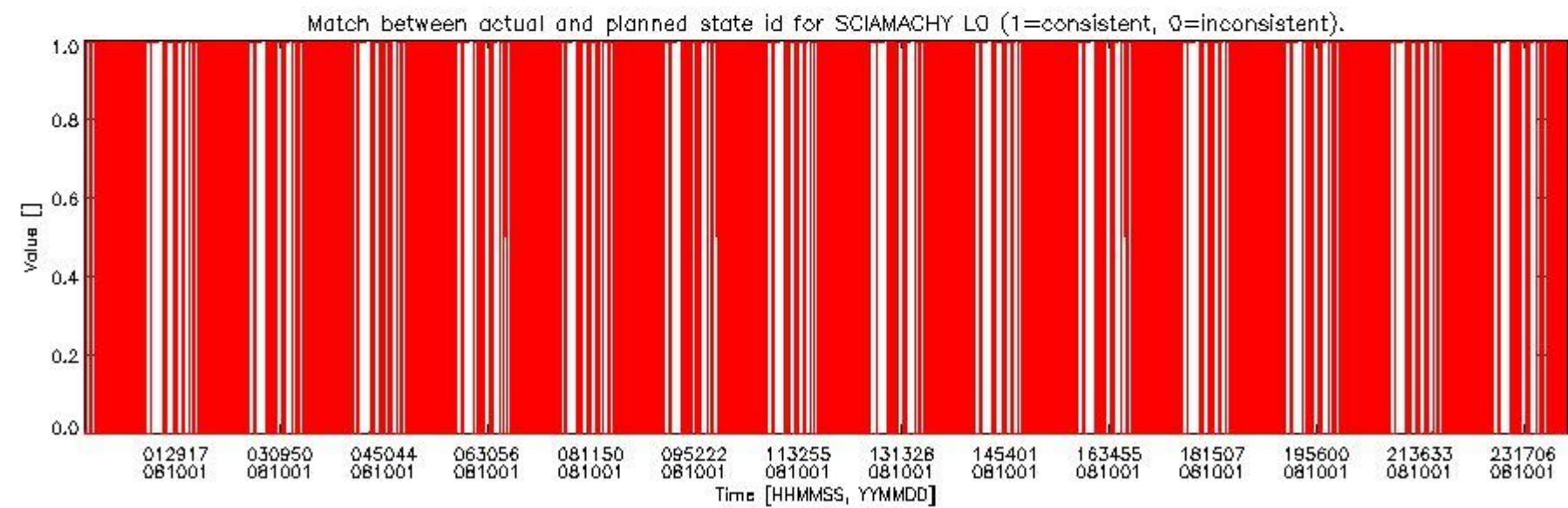
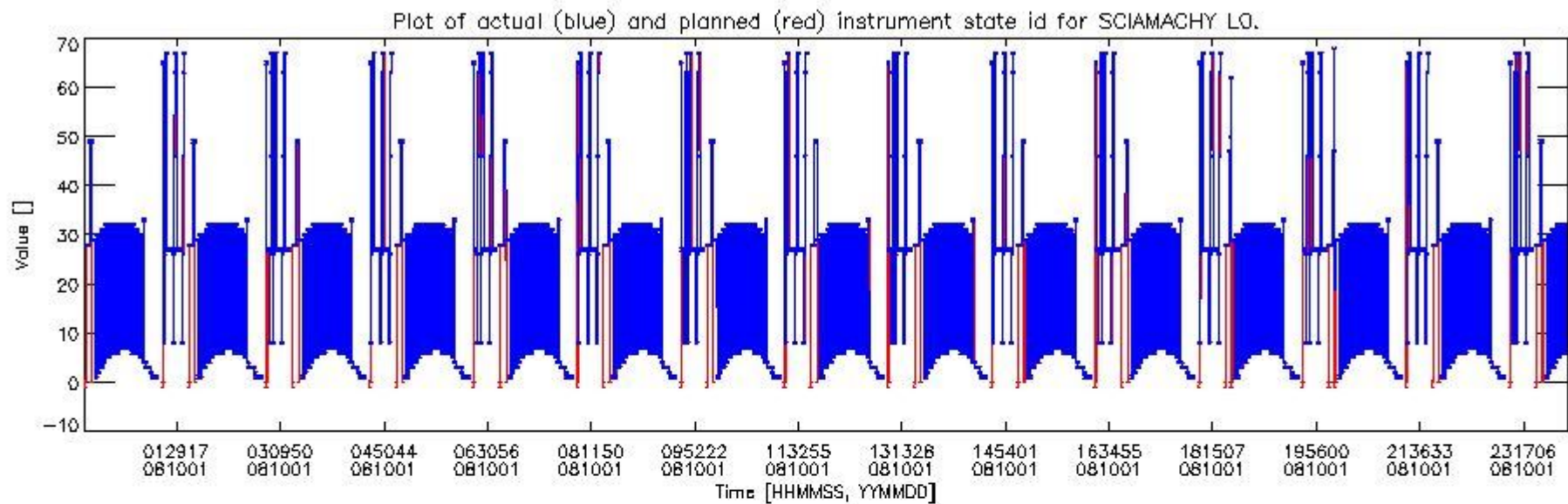


### 0.3 State monitoring

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: **45877**

#	Actual time	Actual value	Planned time	Planned value
0	01OCT2008 00:00:43.900909	28	01OCT2008 00:00:43.900909	0
1	01OCT2008 00:00:44.525930	28	01OCT2008 00:00:44.525930	0
2	01OCT2008 00:00:44.900903	28	01OCT2008 00:00:44.900903	0
3	01OCT2008 00:00:45.275916	28	01OCT2008 00:00:45.275916	0
4	01OCT2008 00:00:45.838416	28	01OCT2008 00:00:45.838416	0
5	01OCT2008 00:00:46.213429	28	01OCT2008 00:00:46.213429	0
6	01OCT2008 00:00:46.588401	28	01OCT2008 00:00:46.588401	0
7	01OCT2008 00:00:46.963415	28	01OCT2008 00:00:46.963415	0
8	01OCT2008 00:00:47.525914	28	01OCT2008 00:00:47.525914	0
9	01OCT2008 00:00:47.900927	28	01OCT2008 00:00:47.900927	0
10	01OCT2008 00:00:48.275900	28	01OCT2008 00:00:48.275900	0
11	01OCT2008 00:00:48.650913	28	01OCT2008 00:00:48.650913	0
12	01OCT2008 00:00:48.900922	28	01OCT2008 00:00:48.900922	0
13	01OCT2008 00:00:49.213412	28	01OCT2008 00:00:49.213412	0
14	01OCT2008 00:00:49.588425	28	01OCT2008 00:00:49.588425	0
15	01OCT2008 00:00:49.963439	28	01OCT2008 00:00:49.963439	0
16	01OCT2008 00:00:50.338411	28	01OCT2008 00:00:50.338411	0
17	01OCT2008 00:00:50.900911	28	01OCT2008 00:00:50.900911	0
18	01OCT2008 00:00:51.275924	28	01OCT2008 00:00:51.275924	0
19	01OCT2008 00:00:51.650937	28	01OCT2008 00:00:51.650937	0
	...	...	...	...

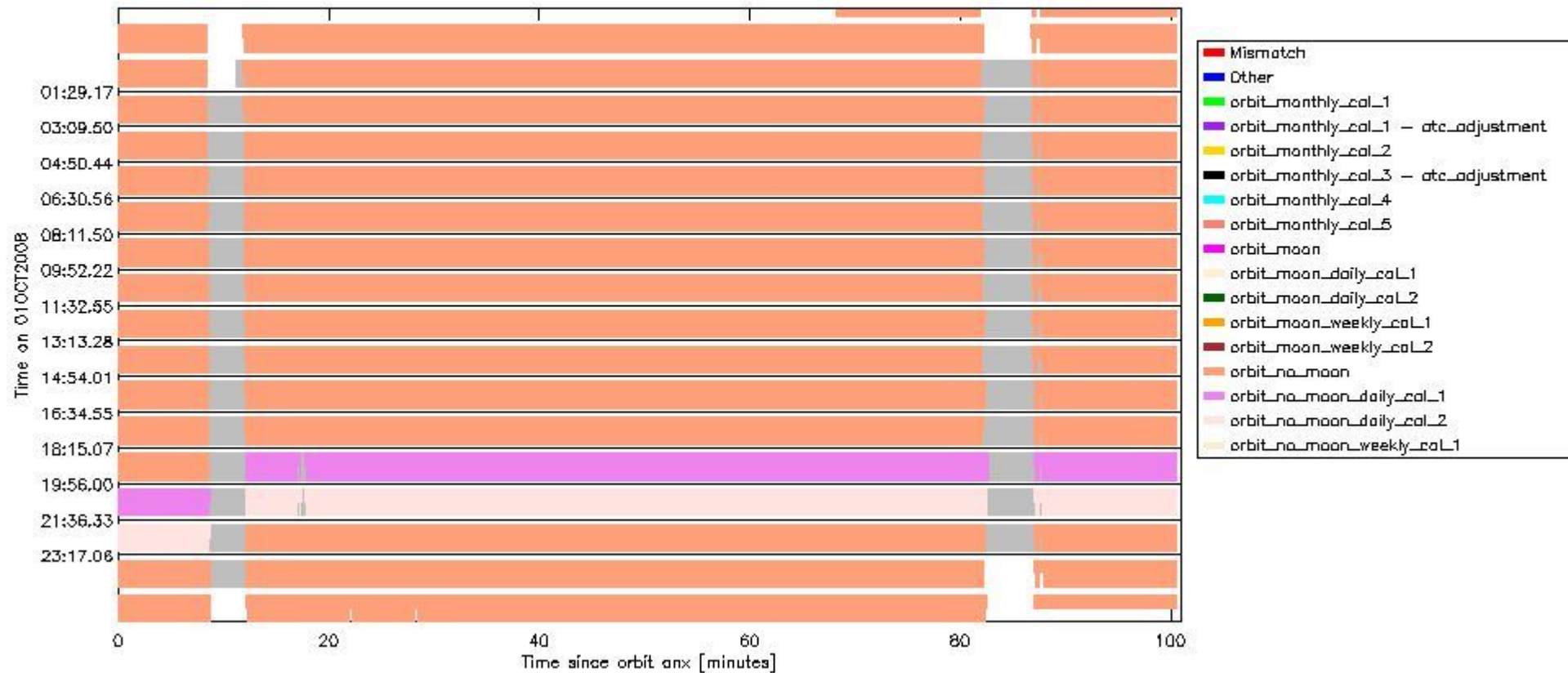


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081001\_5.PNG

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 01OCT2008.  
 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\_20081001\_6.PNG

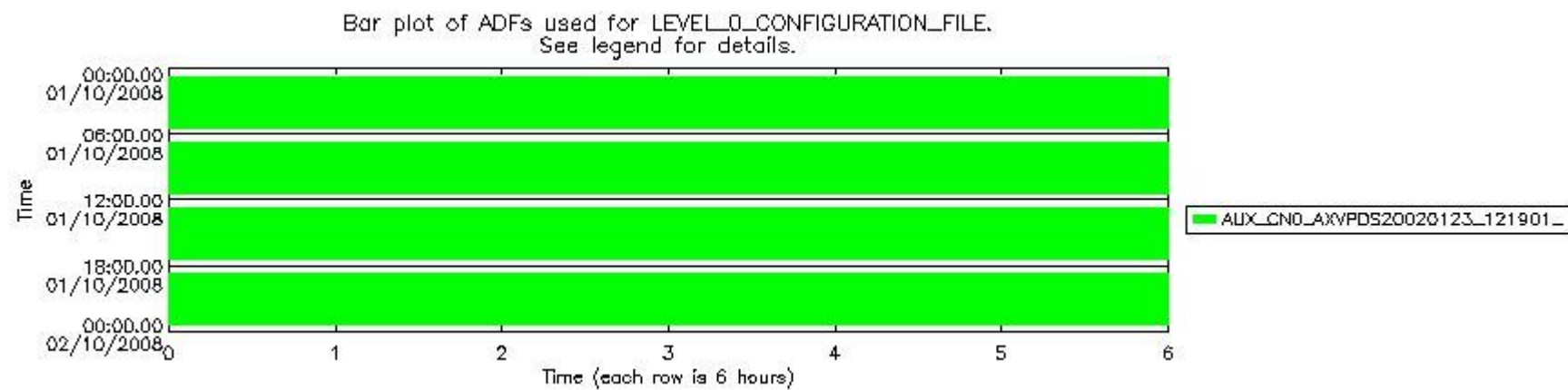
## 0.4 ADF monitoring

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

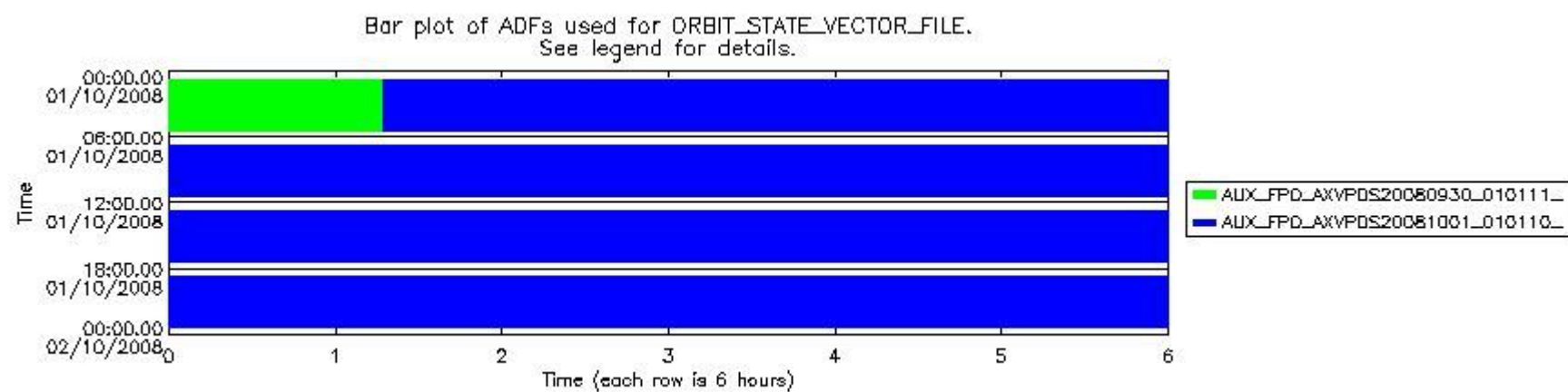
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

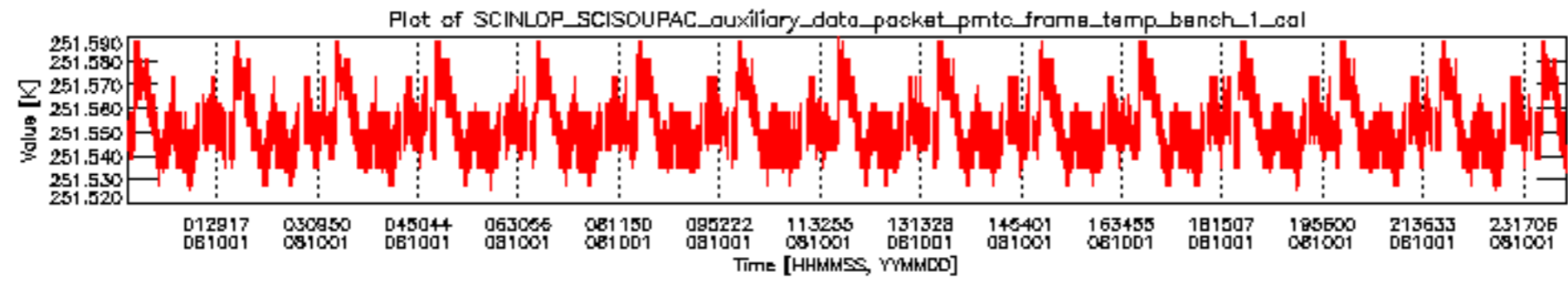
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20080930_010111_20080929_191832_20081009_204446
2	AUX_FPO_AXVPDS20081001_010110_20080930_184655_20081010_201309



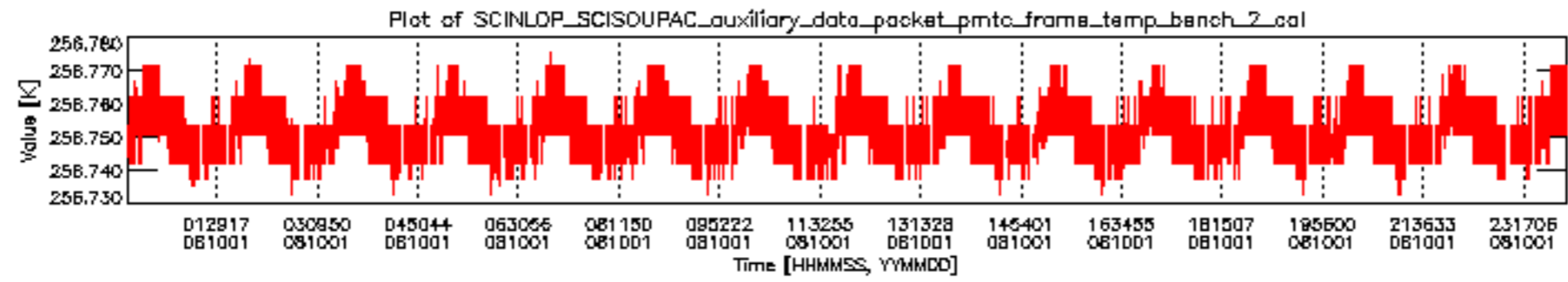
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081001\_7.PNG

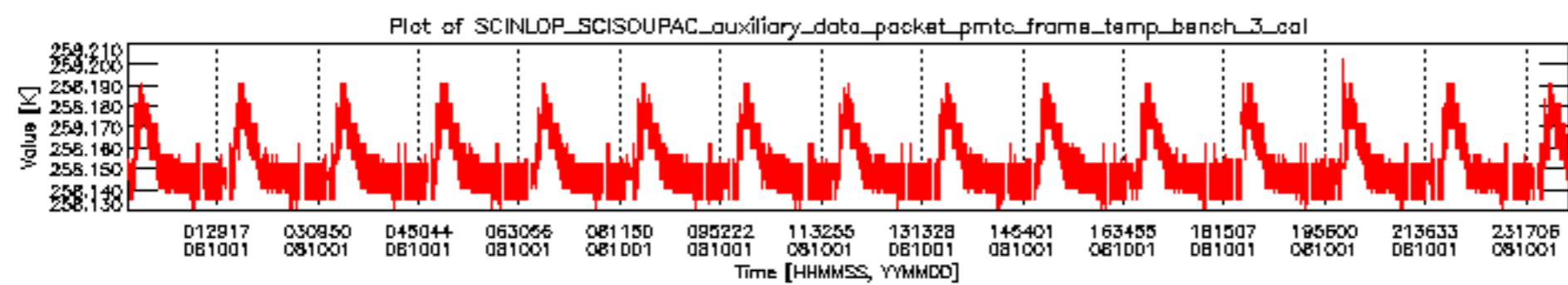


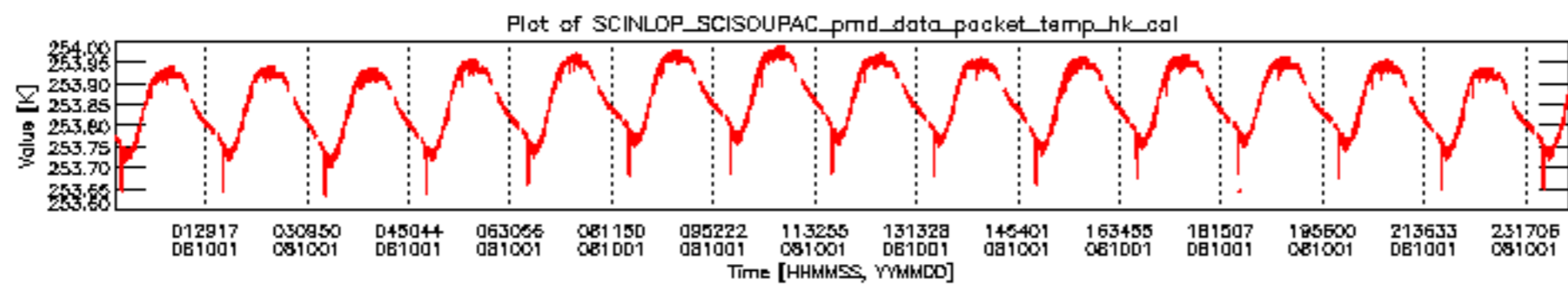
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081001\_8.PNG

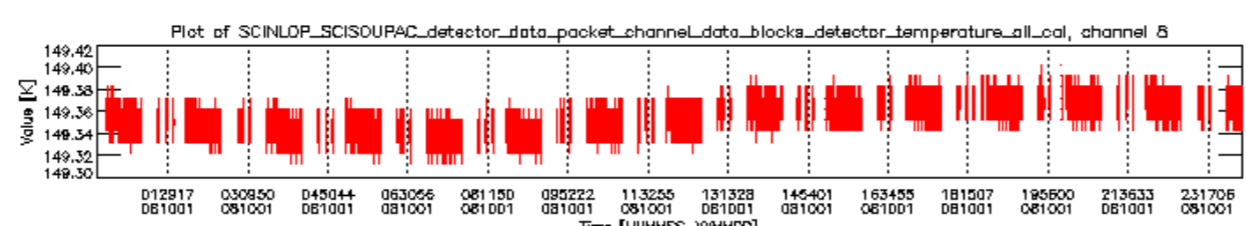
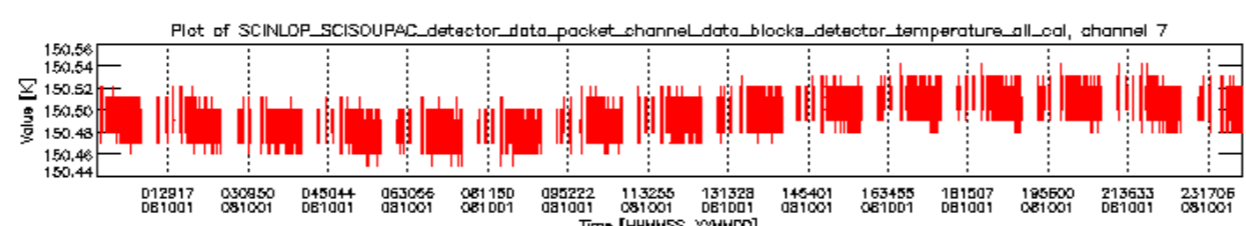
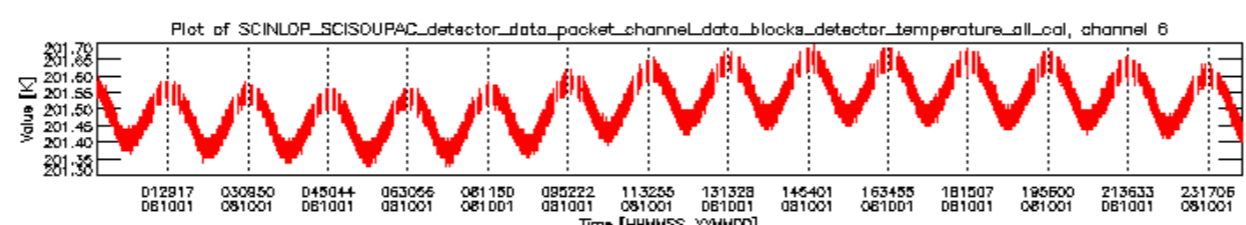
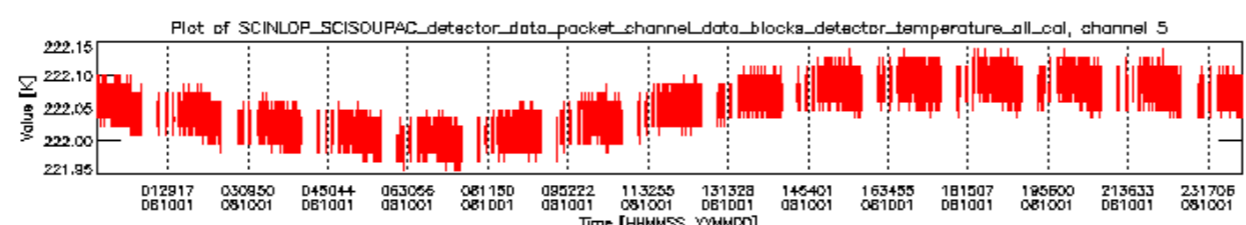
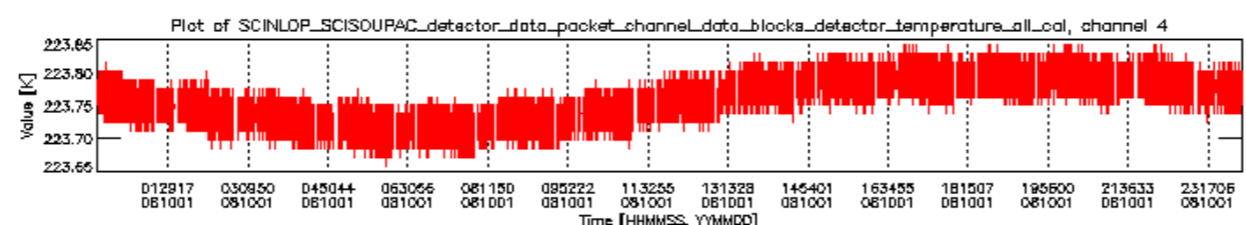
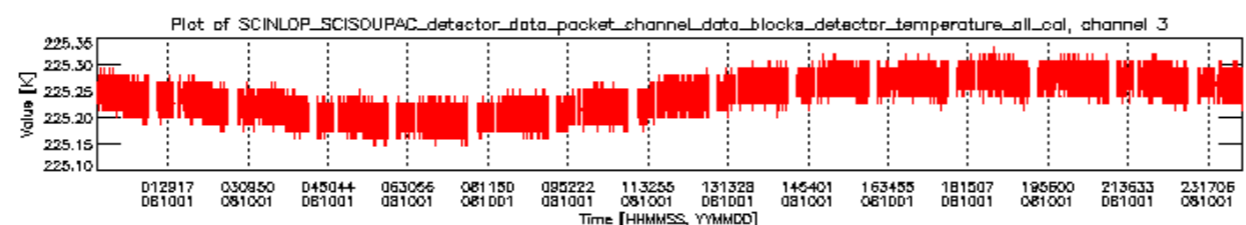
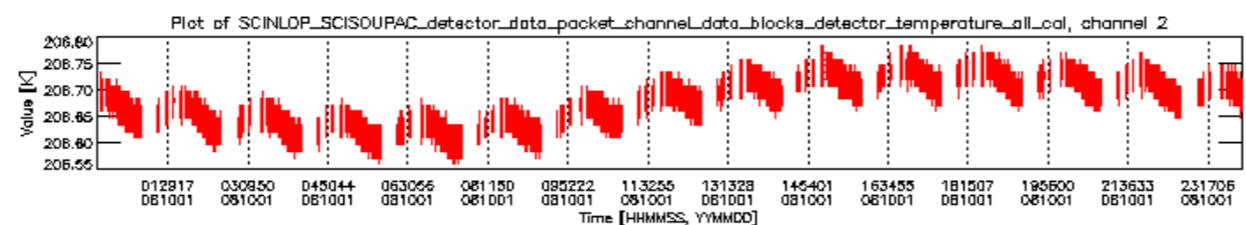
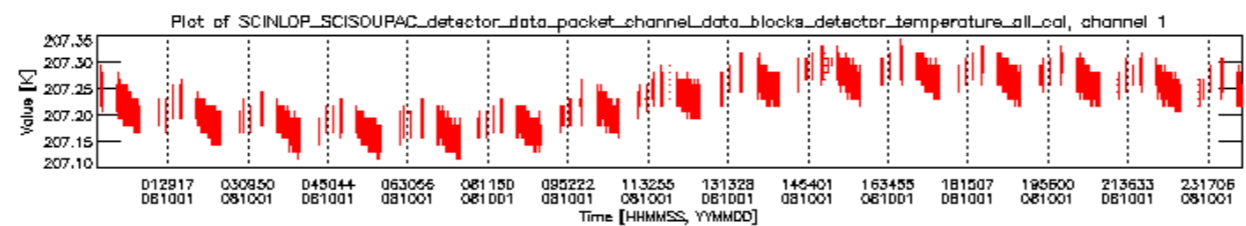


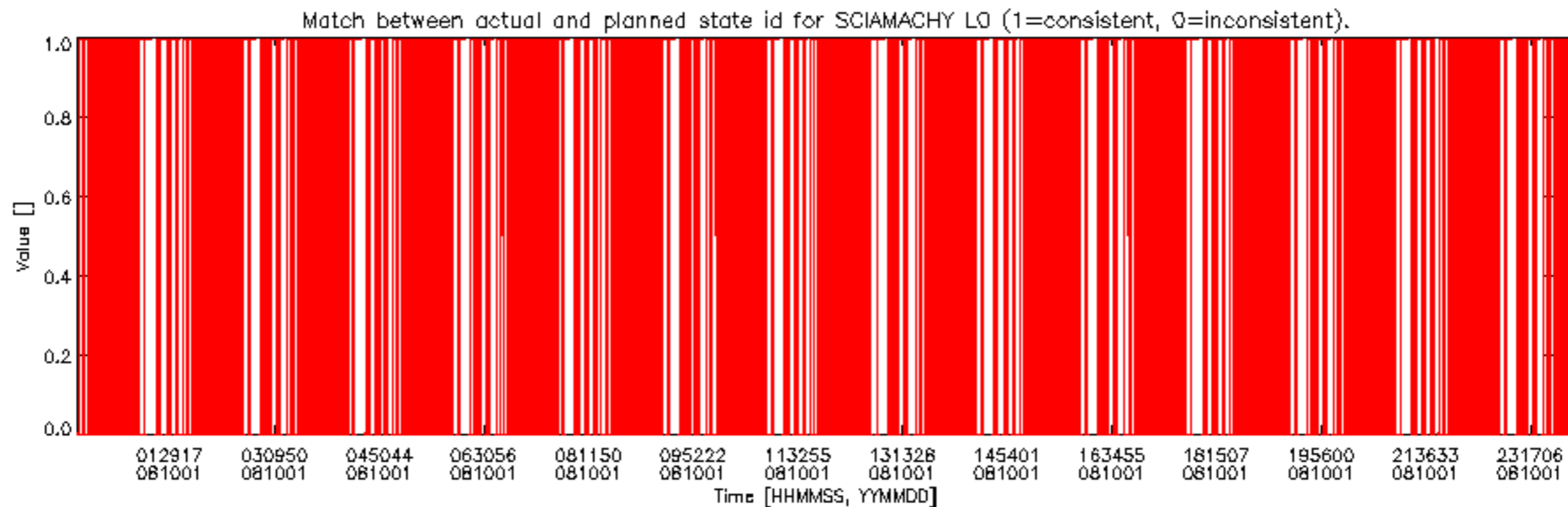
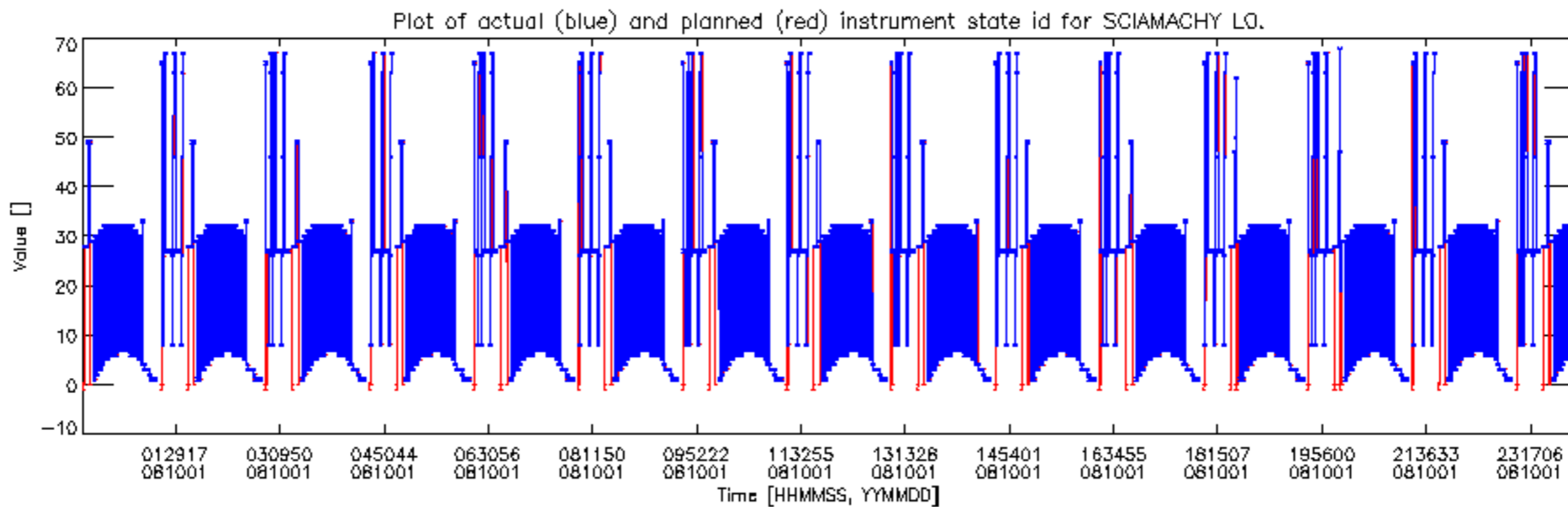




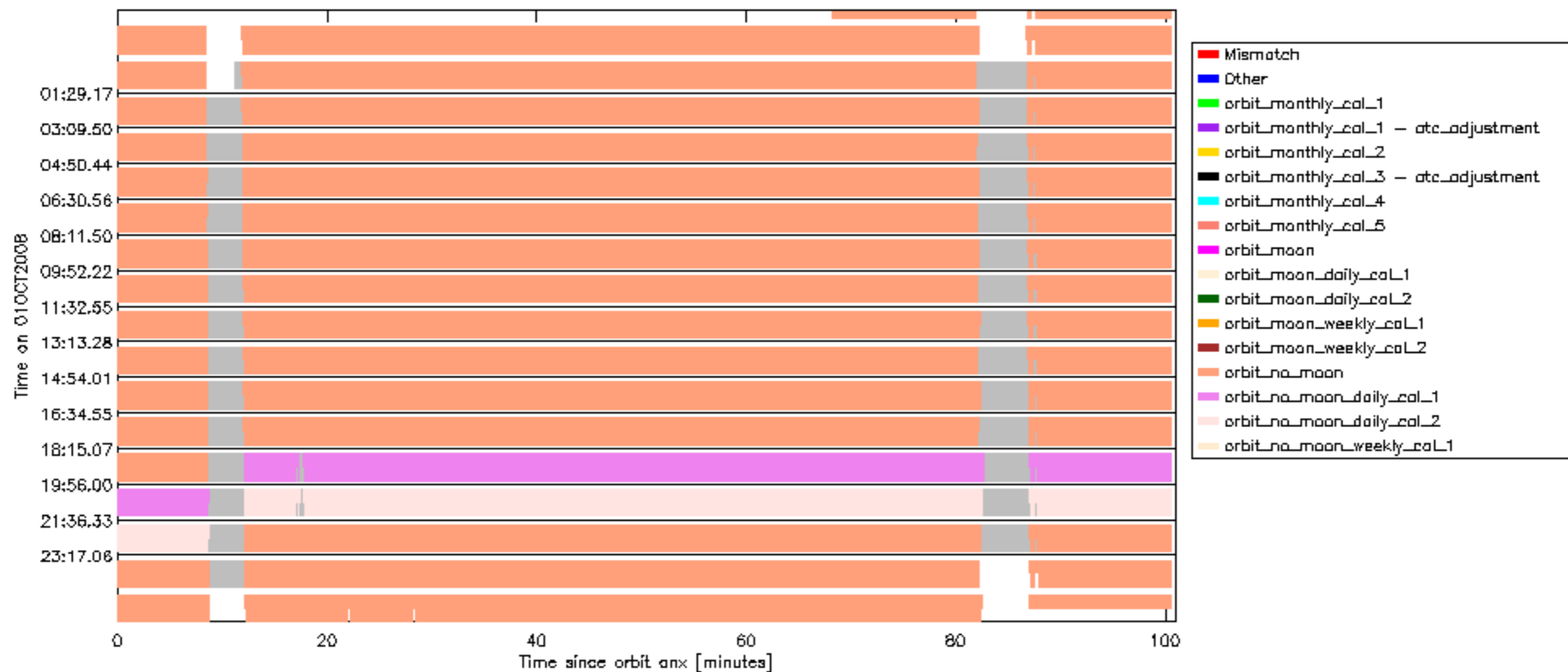


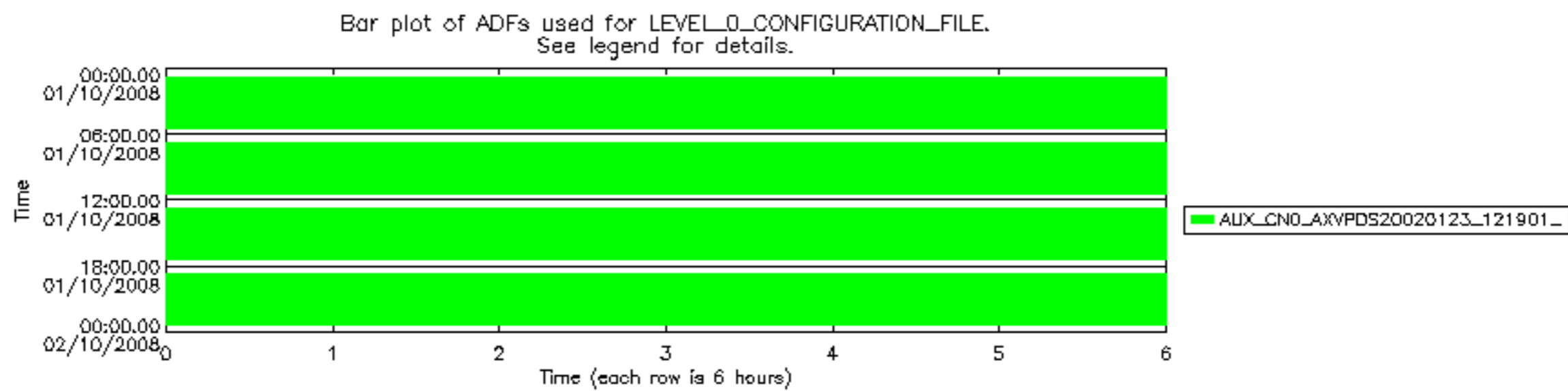






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 01OCT2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

