

# 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	13JAN2008 08:42:44
Data source version	KSPT_L0/4302-N
Processing scope for products	09JAN2008 00:00:00 to 10JAN2008 00:00:00
Start time of first product within scope	08JAN2008 22:54:37
Stop time of last product within scope	10JAN2008 00:03:19
Total number of level 0 products	16
Number of level 0 products with errors	0

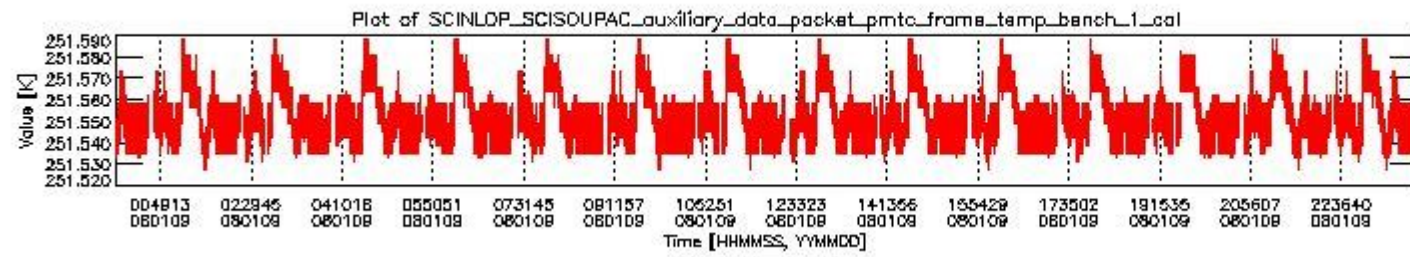
#### 0.1.2 Summary per product

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

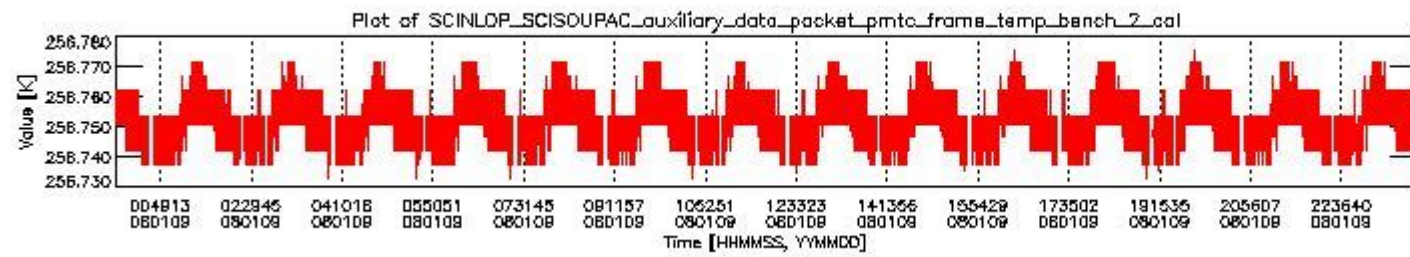
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080108_225437_000060232065_00015_30630_5903.N1	08JAN2008 22:54:37	09JAN2008 00:35:00	0	0	0	0	0
1	SCI_NL__OPNPDE20080109_004204_000054862065_00016_30631_5904.N1	09JAN2008 00:42:04	09JAN2008 02:13:31	0	0	0	0	0
2	SCI_NL__OPNPDE20080109_021331_000044792065_00017_30632_5905.N1	09JAN2008 02:13:31	09JAN2008 03:28:10	0	0	0	0	0
3	SCI_NL__OPNPDE20080109_032810_000062292065_00018_30633_5906.N1	09JAN2008 03:28:10	09JAN2008 05:11:59	0	0	0	0	0
4	SCI_NL__OPNPDE20080109_051103_000060232065_00019_30634_5907.N1	09JAN2008 05:11:03	09JAN2008 06:51:26	0	0	0	0	0
5	SCI_NL__OPNPDK20080109_065126_000040582065_00020_30635_7079.N1	09JAN2008 06:51:26	09JAN2008 07:59:03	0	0	0	0	0
6	SCI_NL__OPNPDK20080109_075755_000060922065_00021_30636_7080.N1	09JAN2008 07:57:55	09JAN2008 09:39:26	0	0	0	0	0
7	SCI_NL__OPNPDK20080109_093735_000060922065_00022_30637_7081.N1	09JAN2008 09:37:35	09JAN2008 11:19:06	0	0	0	0	0
8	SCI_NL__OPNPDK20080109_111714_000061472065_00023_30638_7082.N1	09JAN2008 11:17:14	09JAN2008 12:59:42	0	0	0	0	0
9	SCI_NL__OPNPDK20080109_125846_000060362065_00024_30639_7083.N1	09JAN2008 12:58:46	09JAN2008 14:39:22	0	0	0	0	0
10	SCI_NL__OPNPDK20080109_143730_000058412065_00025_30640_7084.N1	09JAN2008 14:37:30	09JAN2008 16:14:51	0	0	0	0	0
11	SCI_NL__OPNPDK20080109_161355_000059242065_00026_30641_7085.N1	09JAN2008 16:13:55	09JAN2008 17:52:39	0	0	0	0	0
12	SCI_NL__OPNPDK20080109_175239_000058442065_00027_30642_7086.N1	09JAN2008 17:52:39	09JAN2008 19:30:02	0	0	0	0	0
13	SCI_NL__OPNPDK20080109_193315_000058042065_00028_30643_7087.N1	09JAN2008 19:33:15	09JAN2008 21:09:59	0	0	0	0	0
14	SCI_NL__OPNPDE20080109_211350_000041462065_00029_30644_5908.N1	09JAN2008 21:13:50	09JAN2008 22:22:56	0	0	0	0	0
15	SCI_NL__OPNPDE20080109_222256_000060232065_00029_30644_5909.N1	09JAN2008 22:22:56	10JAN2008 00:03:19	0	0	0	0	0

### 0.2 Product Quality Indicators

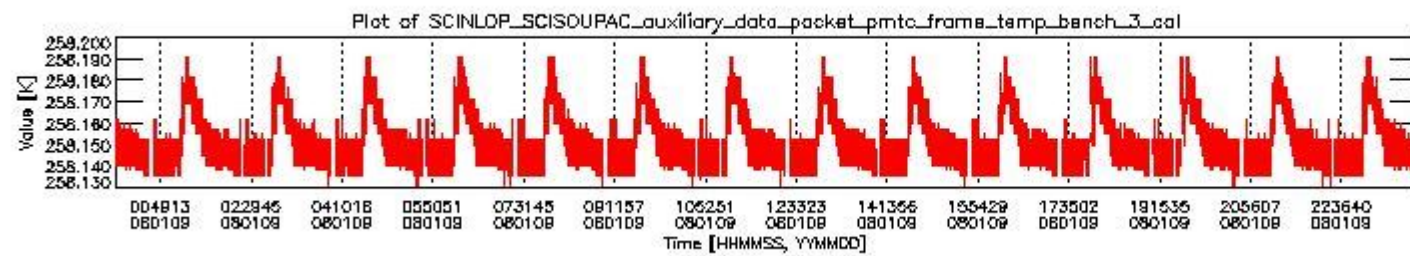
This section shows information about product quality, currently temperatures.



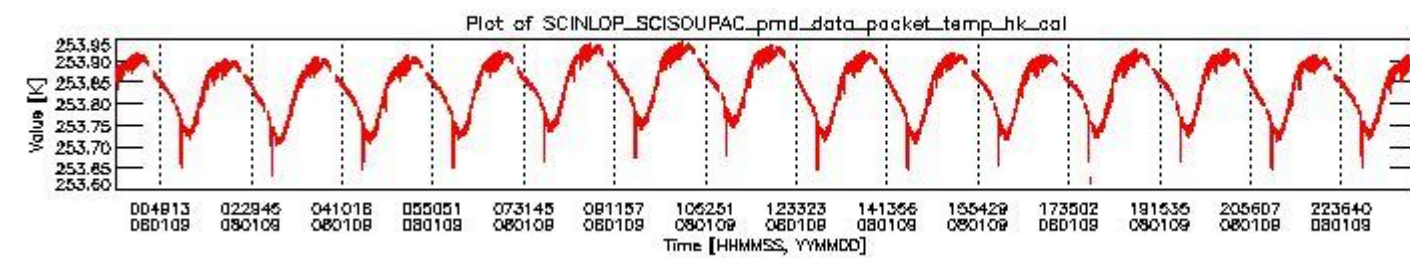
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080109\_0.PNG



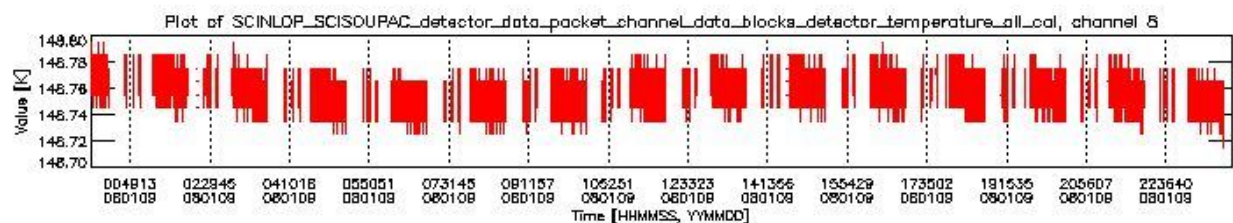
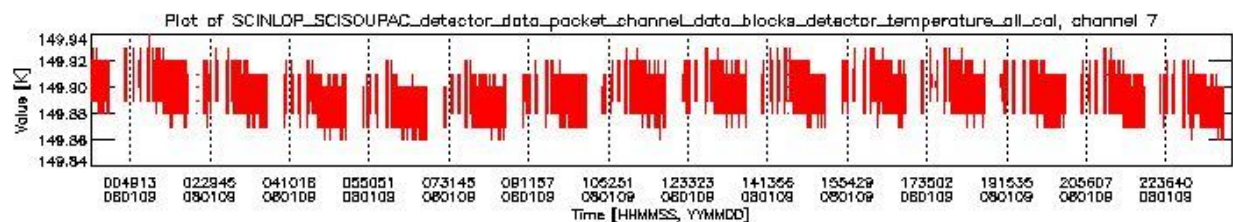
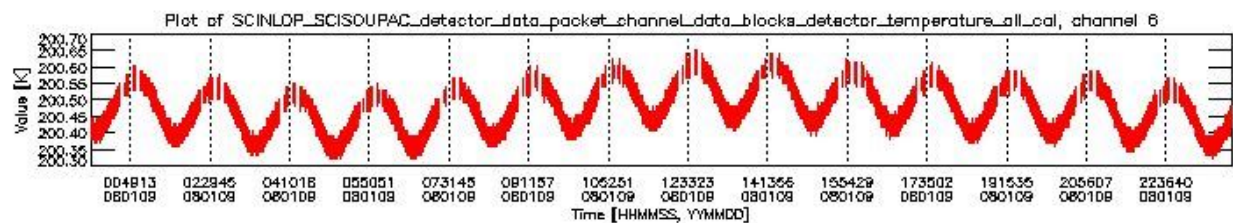
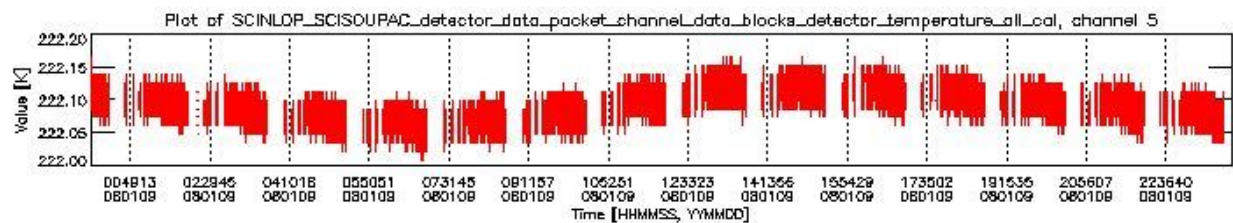
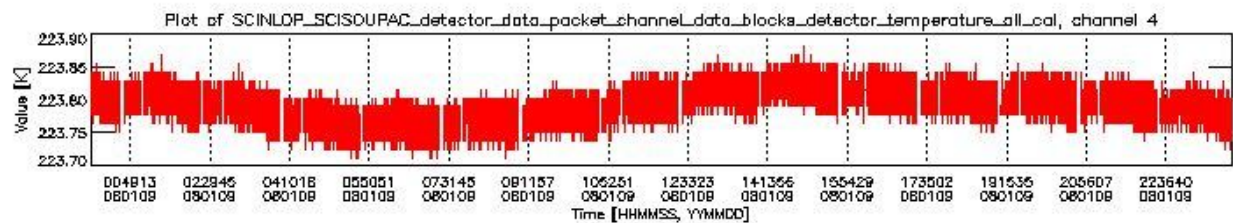
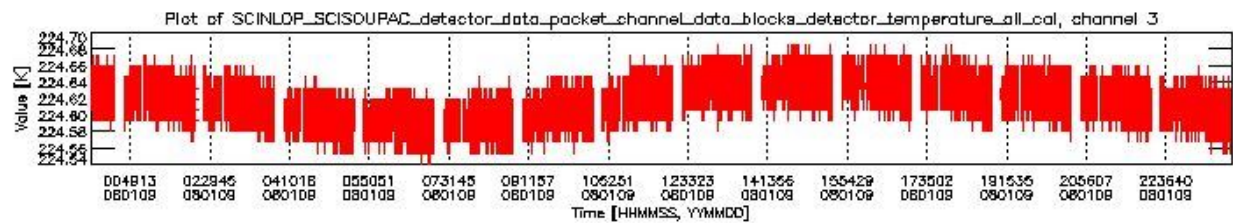
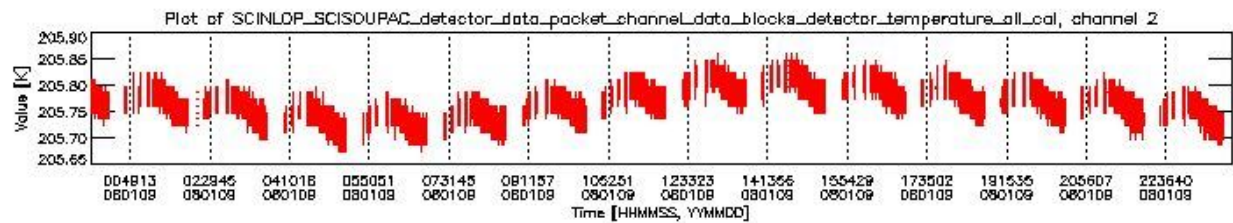
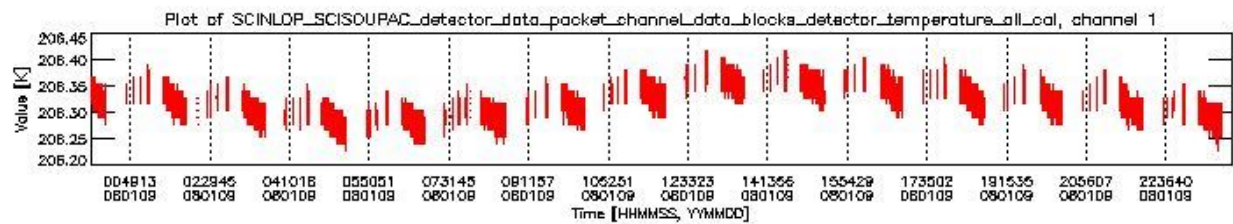
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sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080109\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080109\_3.PNG

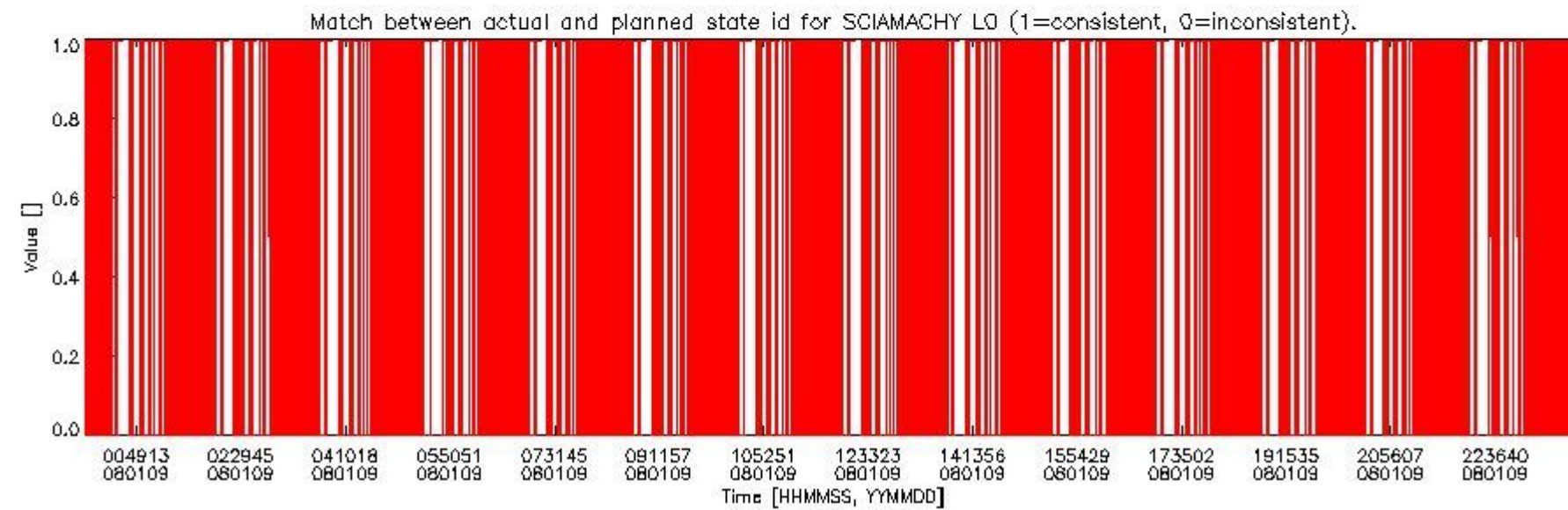
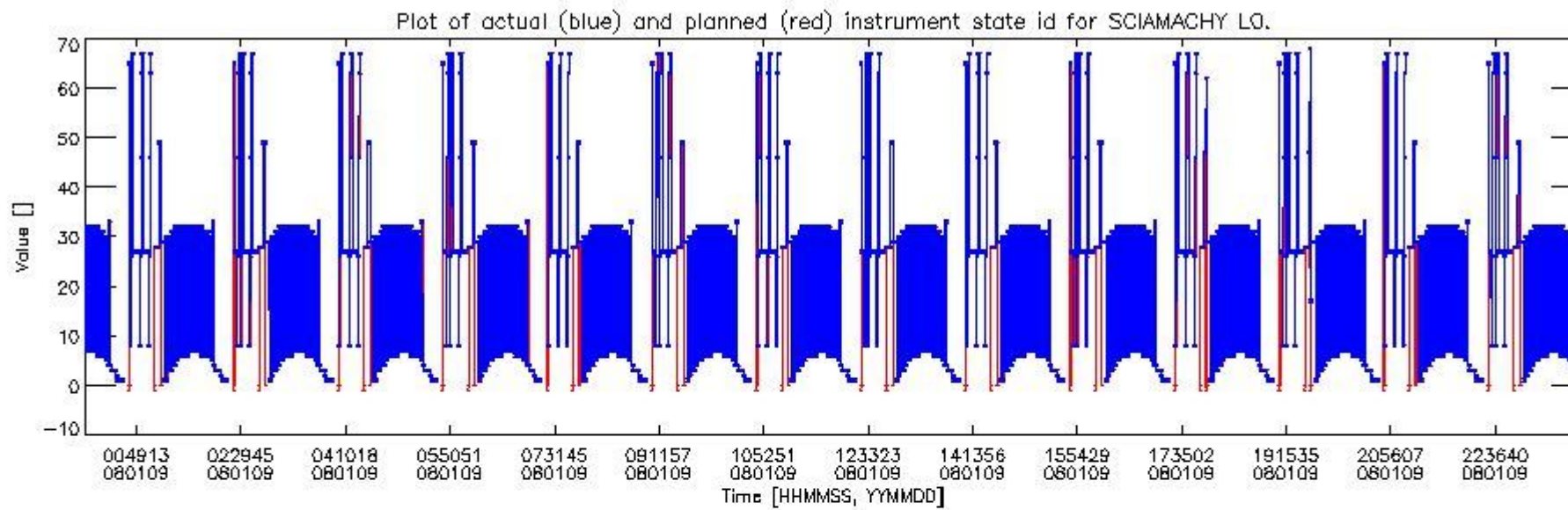


### 0.3 State monitoring

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: **37858**

#	Actual time	Actual value	Planned time	Planned value
0	09JAN2008 00:00:45.799792	7	09JAN2008 00:00:45.799792	32
1	09JAN2008 00:00:46.174805	7	09JAN2008 00:00:46.174805	32
2	09JAN2008 00:00:46.424814	7	09JAN2008 00:00:46.424814	32
3	09JAN2008 00:00:46.674782	7	09JAN2008 00:00:46.674782	32
4	09JAN2008 00:00:46.924791	7	09JAN2008 00:00:46.924791	32
5	09JAN2008 00:00:47.174799	7	09JAN2008 00:00:47.174799	32
6	09JAN2008 00:00:47.424808	7	09JAN2008 00:00:47.424808	32
7	09JAN2008 00:00:47.674817	7	09JAN2008 00:00:47.674817	32
8	09JAN2008 00:00:47.924785	7	09JAN2008 00:00:47.924785	32
9	09JAN2008 00:00:48.174794	7	09JAN2008 00:00:48.174794	32
10	09JAN2008 00:00:48.424803	7	09JAN2008 00:00:48.424803	32
11	09JAN2008 00:00:48.674811	7	09JAN2008 00:00:48.674811	32
12	09JAN2008 00:00:48.924820	7	09JAN2008 00:00:48.924820	32
13	09JAN2008 00:00:49.174789	7	09JAN2008 00:00:49.174789	32
14	09JAN2008 00:00:49.424797	7	09JAN2008 00:00:49.424797	32
15	09JAN2008 00:00:49.674806	7	09JAN2008 00:00:49.674806	32
16	09JAN2008 00:00:49.924815	7	09JAN2008 00:00:49.924815	32
17	09JAN2008 00:00:50.174783	7	09JAN2008 00:00:50.174783	32
18	09JAN2008 00:00:50.424792	7	09JAN2008 00:00:50.424792	32
19	09JAN2008 00:00:50.674801	7	09JAN2008 00:00:50.674801	32
	...	...	...	...

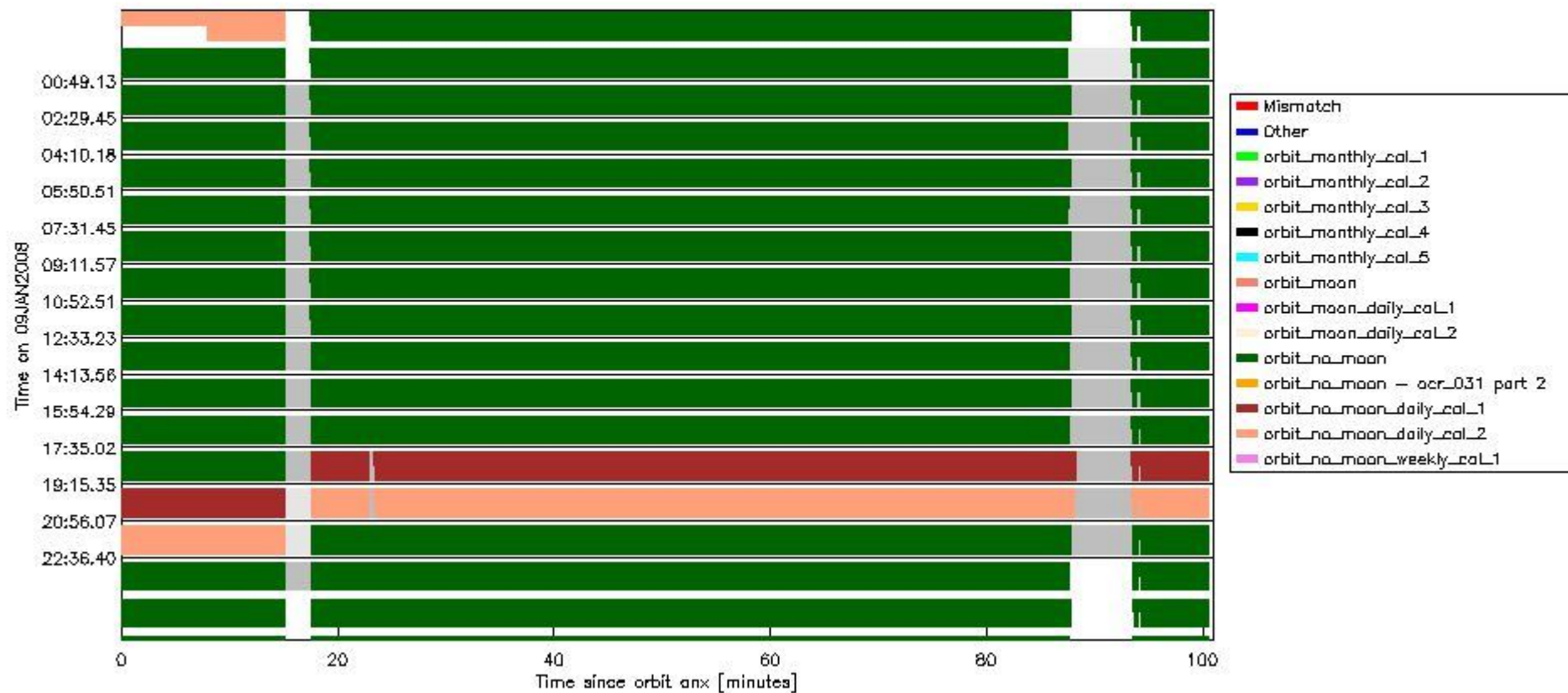


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080109\_5.PNG

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 09JAN2008.  
 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\_20080109\_6.PNG

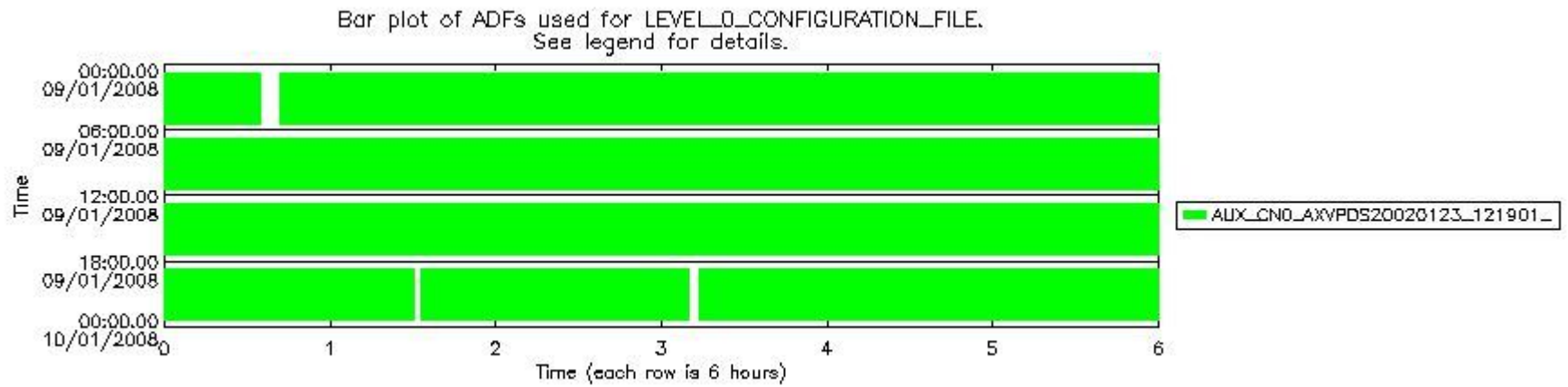
## 0.4 ADF monitoring

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

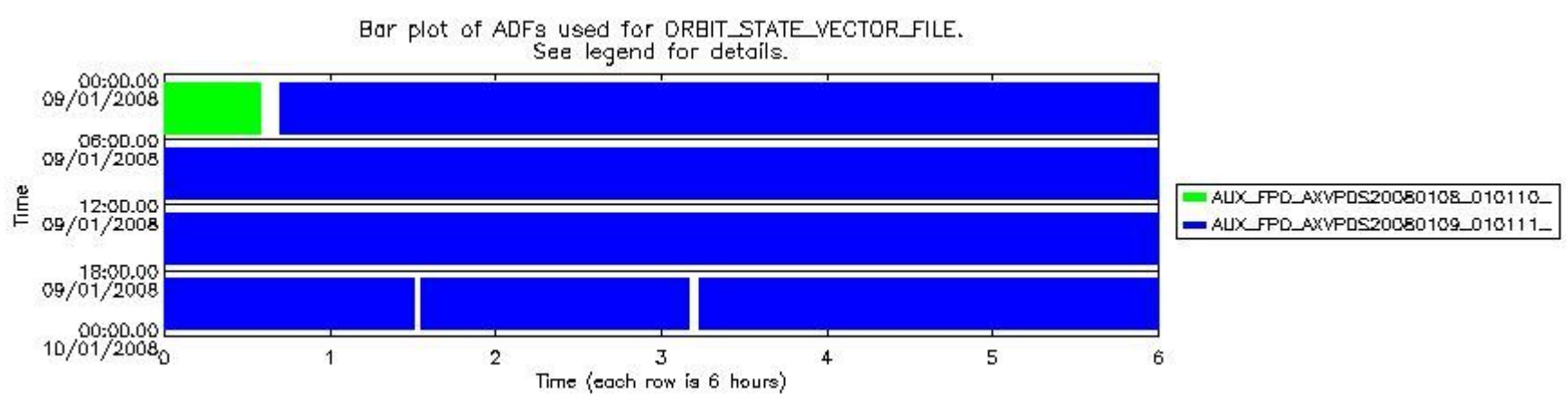
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

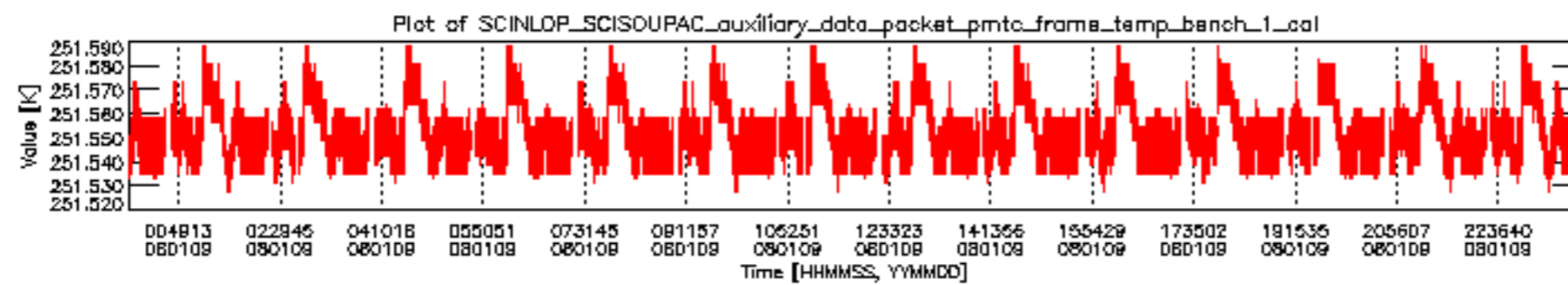
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20080108_010110_20080107_183819_20080117_200432
2	AUX_FPO_AXVPDS20080109_010111_20080108_194718_20080118_211331



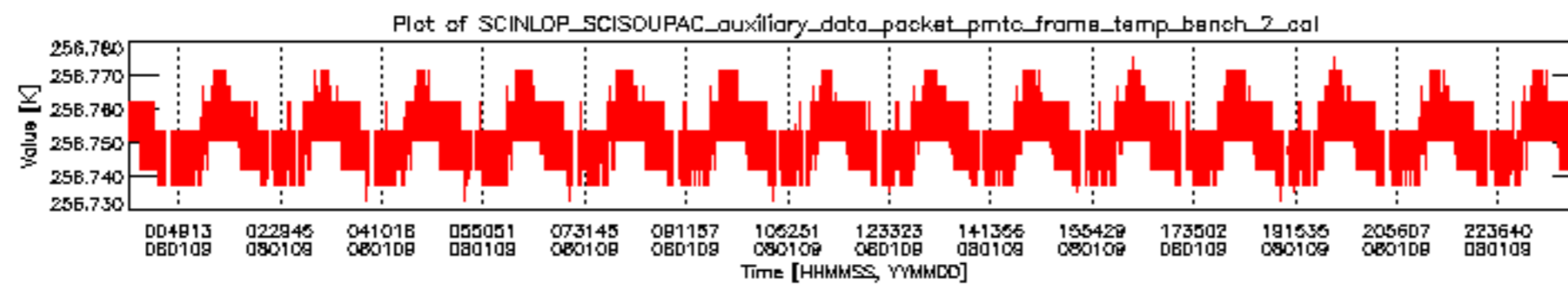
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080109\_7.PNG

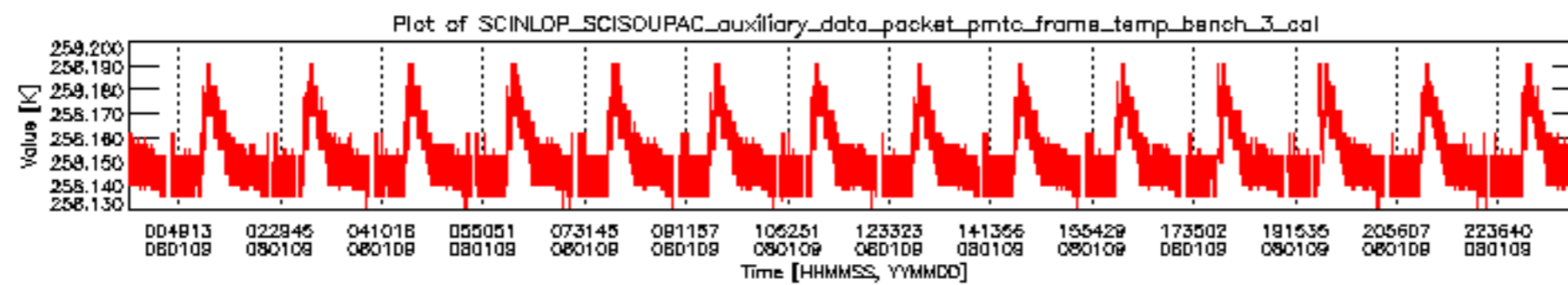


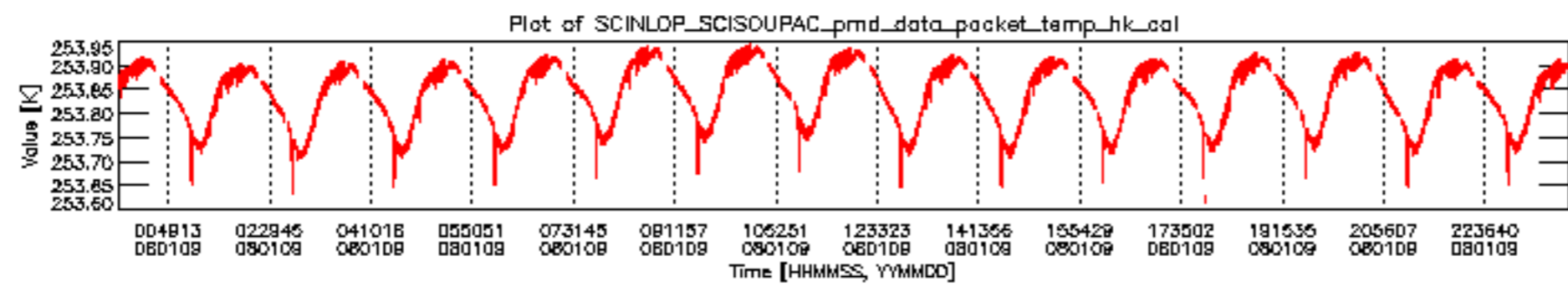
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080109\_8.PNG

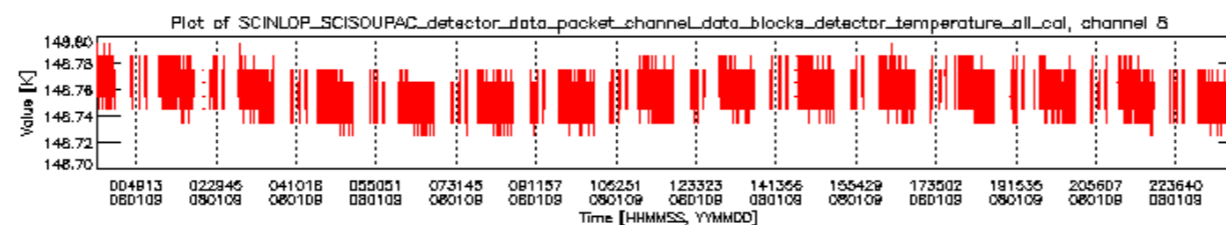
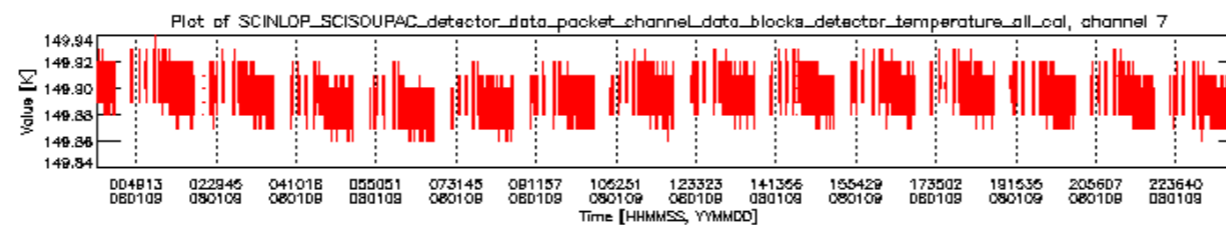
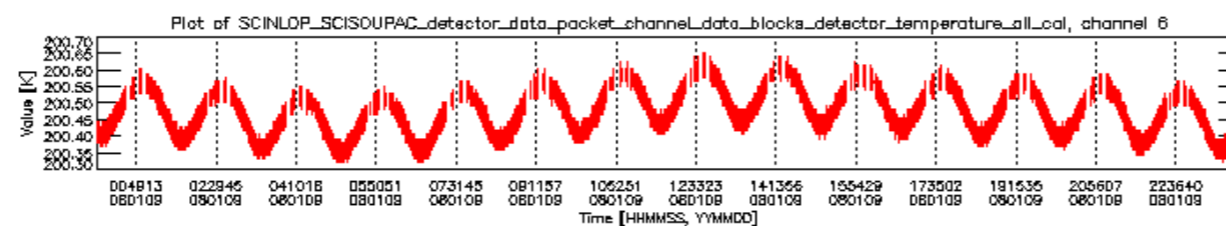
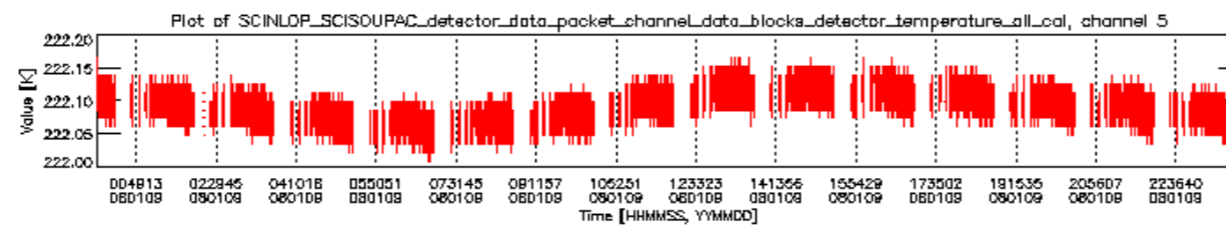
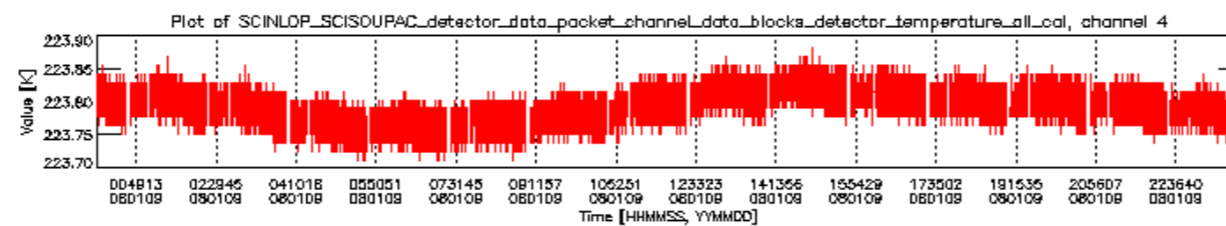
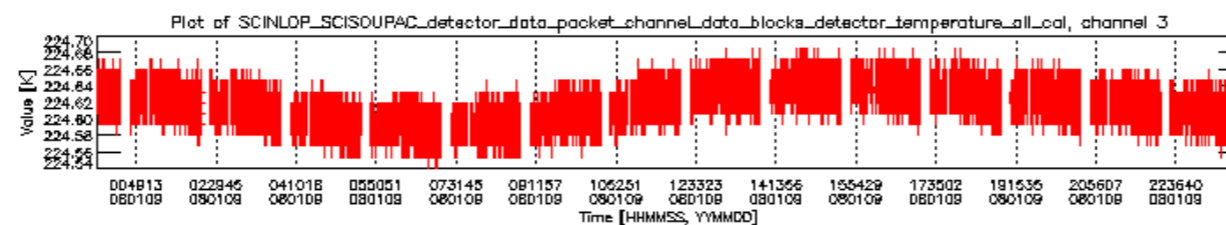
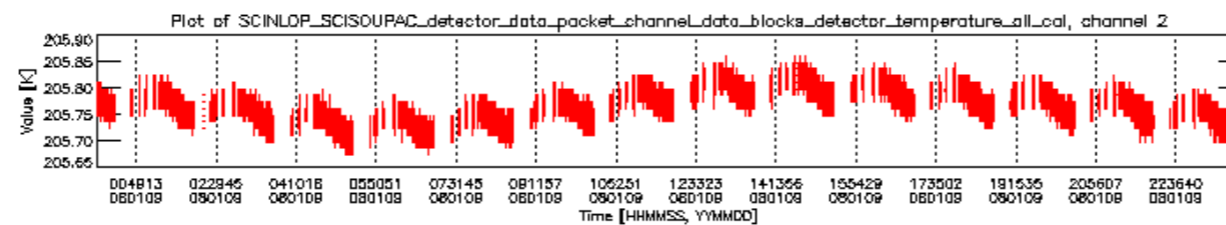
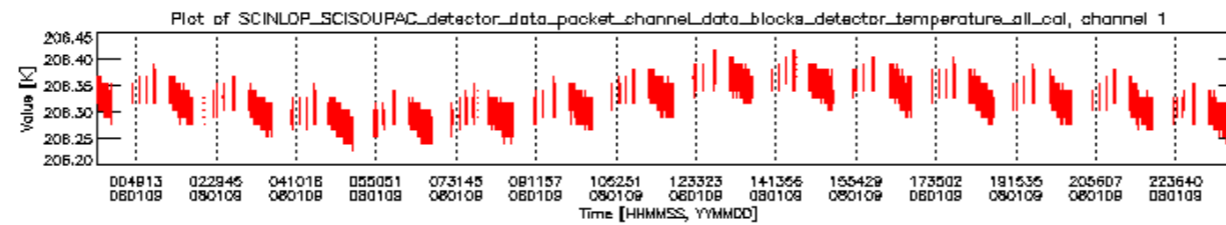


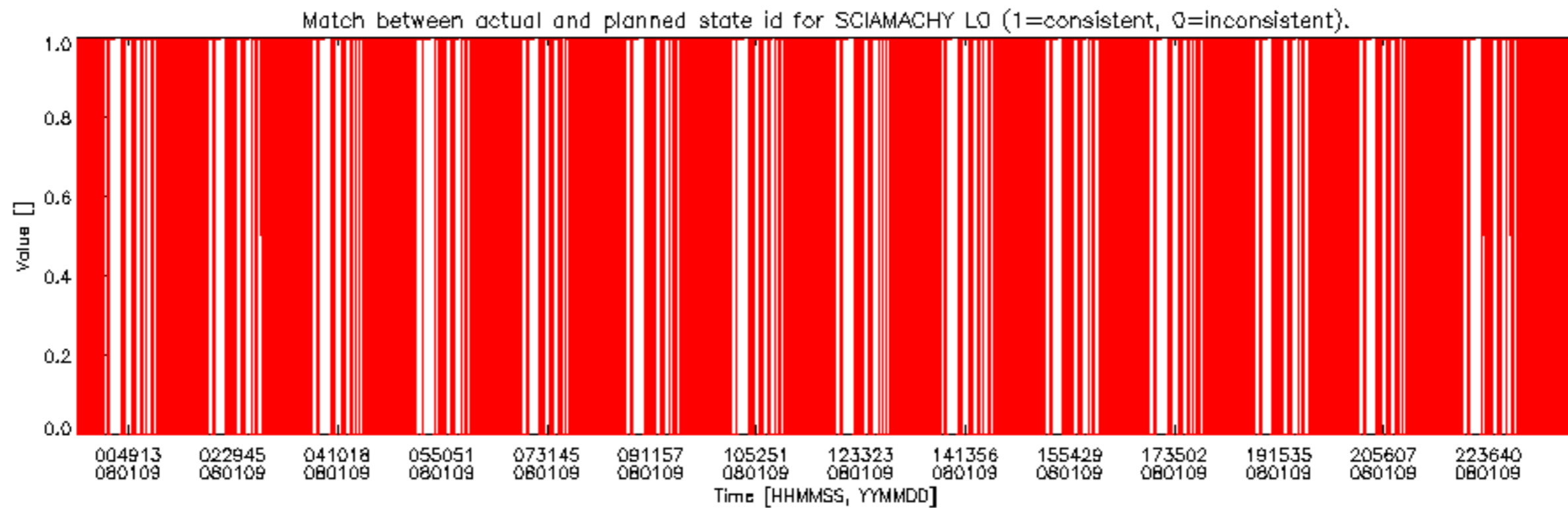
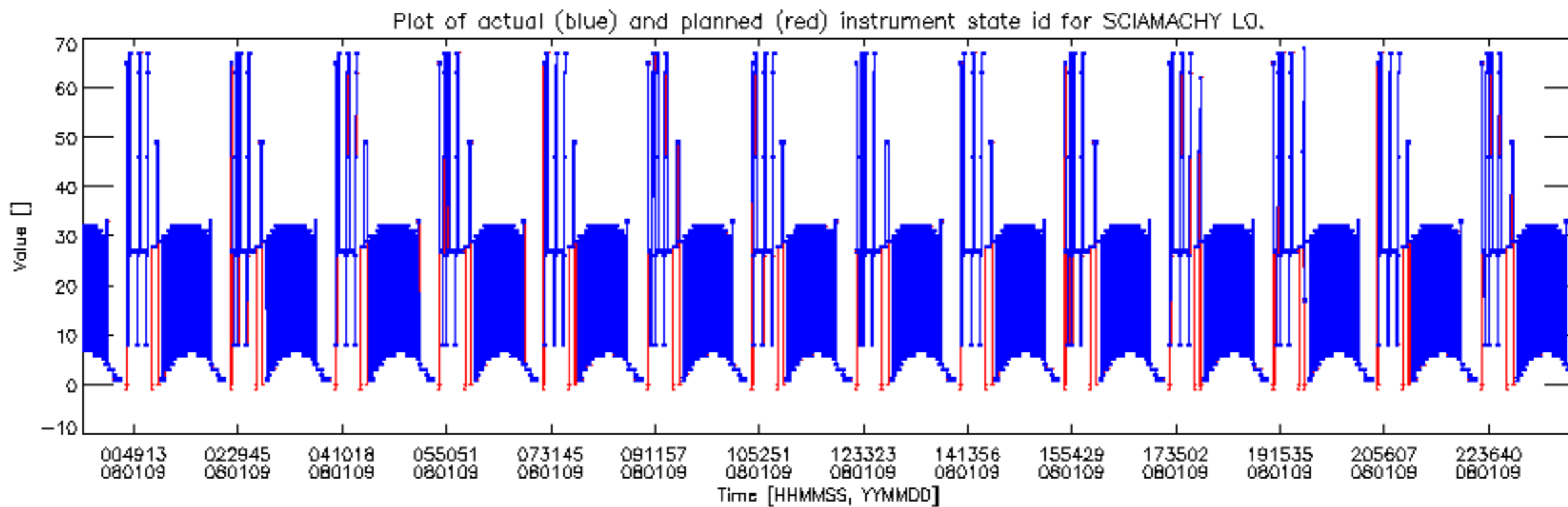




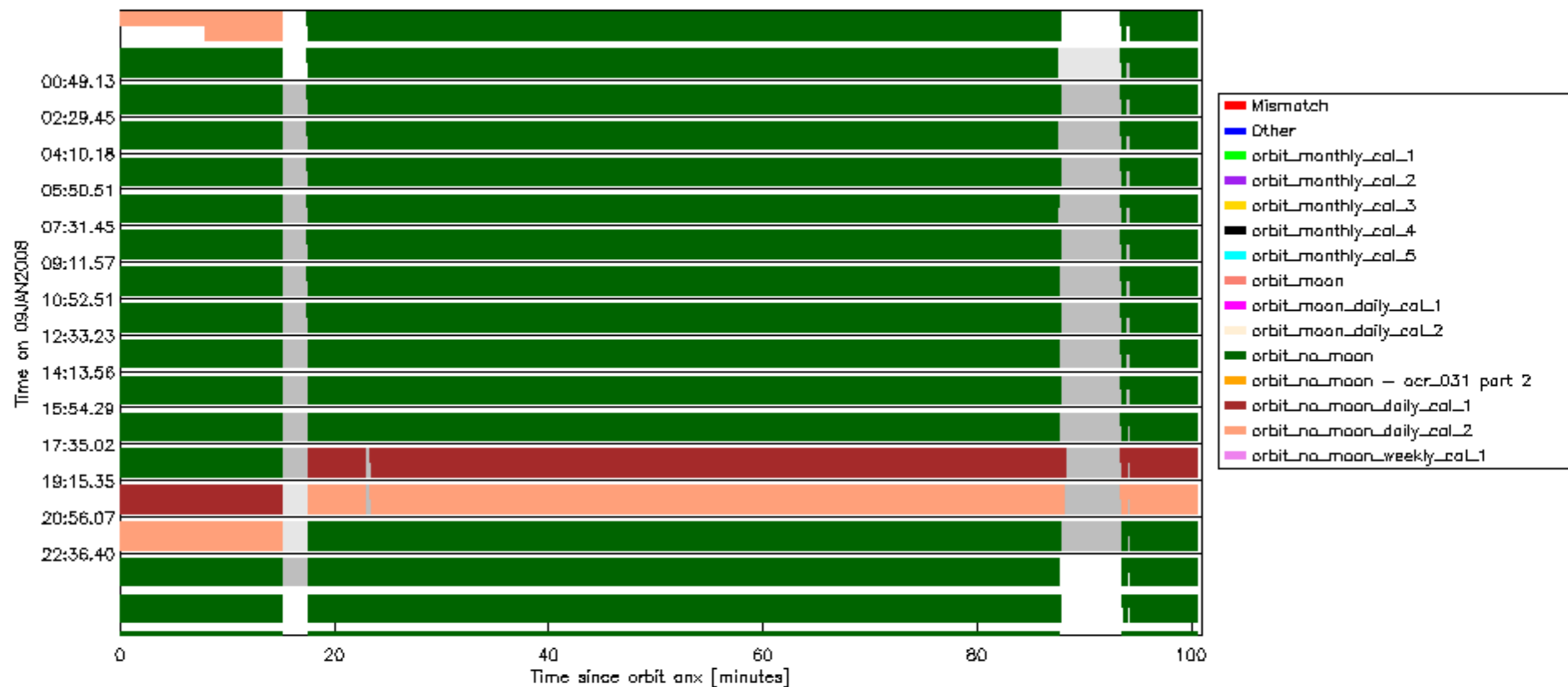


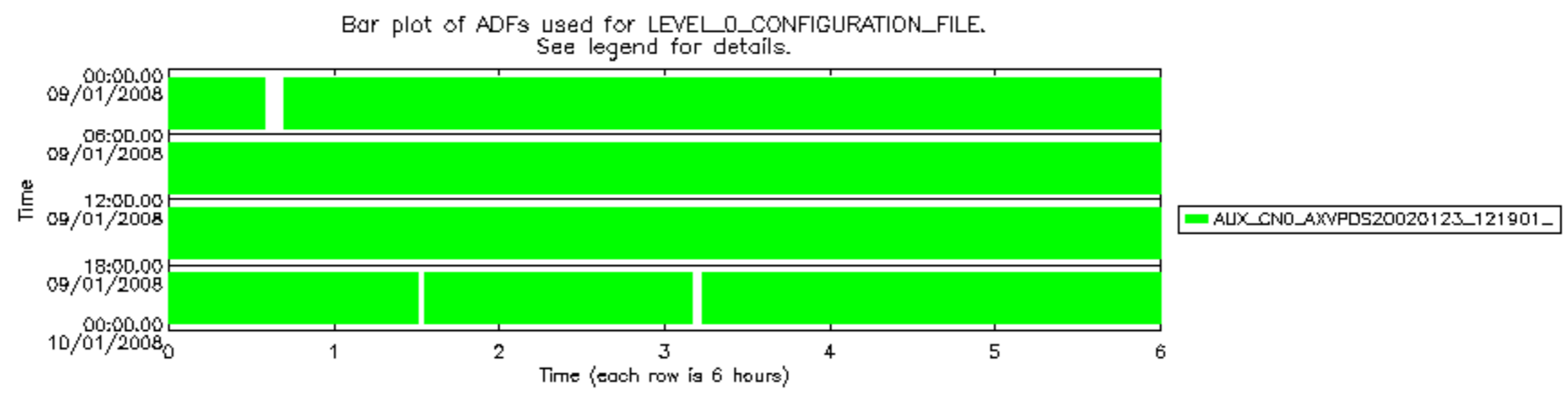






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 09JAN2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

