

## 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	06FEB2008 15:28:09
Data source version	KSPT_L0/4303-N
Processing scope for products	01FEB2008 00:00:00 to 02FEB2008 00:00:00
Start time of first product within scope	01FEB2008 00:17:42
Stop time of last product within scope	02FEB2008 01:19:03
Total number of level 0 products	16
Number of level 0 products with errors	1

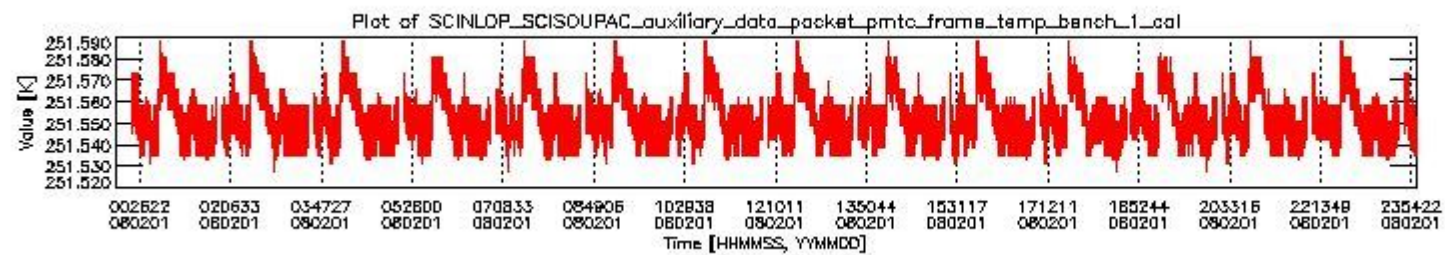
### 0.1.2 Summary per product

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

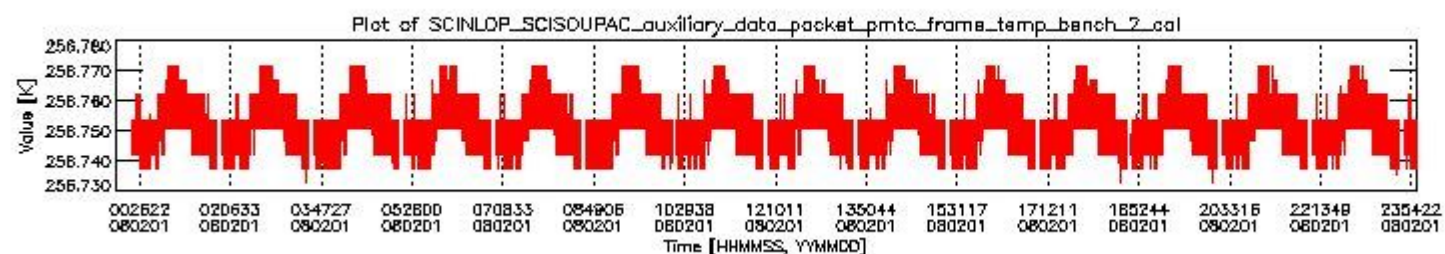
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080201_001742_000055842065_00345_30960_6051.N1	01FEB2008 00:17:42	01FEB2008 01:50:46	0	0	0	0	0
1	SCI_NL__OPNPDE20080201_015046_000048652065_00346_30961_6052.N1	01FEB2008 01:50:46	01FEB2008 03:11:51	0	0	0	0	0
2	SCI_NL__OPNPDE20080201_031042_000058432065_00347_30962_6053.N1	01FEB2008 03:10:42	01FEB2008 04:48:04	0	0	0	0	0
3	SCI_NL__OPNPDE20080201_044709_000061042065_00348_30963_6054.N1	01FEB2008 04:47:09	01FEB2008 06:28:53	0	0	0	0	0
4	SCI_NL__OPNPDK20080201_062744_000041012065_00349_30964_7275.N1	01FEB2008 06:27:44	01FEB2008 07:36:05	0	0	0	0	0
5	SCI_NL__OPNPDK20080201_073509_000061042065_00350_30965_7276.N1	01FEB2008 07:35:09	01FEB2008 09:16:53	0	0	0	0	0
6	SCI_NL__OPNPDK20080201_091544_000061602065_00351_30966_7277.N1	01FEB2008 09:15:44	01FEB2008 10:58:24	0	0	0	0	0
7	SCI_NL__OPNPDK20080201_105620_000060352065_00352_30967_7278.N1	01FEB2008 10:56:20	01FEB2008 12:36:55	0	0	0	0	0
8	SCI_NL__OPNPDK20080201_123559_000060232065_00353_30968_7279.N1	01FEB2008 12:35:59	01FEB2008 14:16:22	0	0	0	0	0
9	SCI_NL__OPNPDK20080201_141526_000058682065_00354_30969_7280.N1	01FEB2008 14:15:26	01FEB2008 15:53:14	1	1	0	0	0
10	SCI_NL__OPNPDK20080201_155056_000060362065_00355_30970_7281.N1	01FEB2008 15:50:56	01FEB2008 17:31:32	0	0	0	0	0
11	SCI_NL__OPNPDK20080201_173132_000058112065_00356_30971_7282.N1	01FEB2008 17:31:32	01FEB2008 19:08:23	0	0	0	0	0
12	SCI_NL__OPNPDK20080201_190823_000058702065_00357_30972_7283.N1	01FEB2008 19:08:23	01FEB2008 20:46:13	0	0	0	0	0
13	SCI_NL__OPNPDE20080201_204858_000041332065_00358_30973_6055.N1	01FEB2008 20:48:58	01FEB2008 21:57:52	0	0	0	0	0
14	SCI_NL__OPNPDE20080201_220524_000055962065_00358_30973_6056.N1	01FEB2008 22:05:24	01FEB2008 23:38:40	0	0	0	0	0
15	SCI_NL__OPNPDE20080201_234600_000055832065_00359_30974_6057.N1	01FEB2008 23:46:00	02FEB2008 01:19:03	0	0	0	0	0

## 0.2 Product Quality Indicators

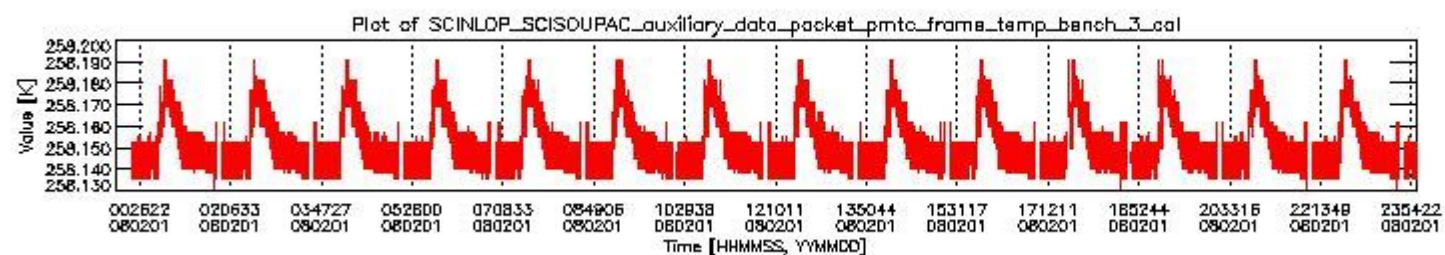
This section shows information about product quality, currently temperatures.



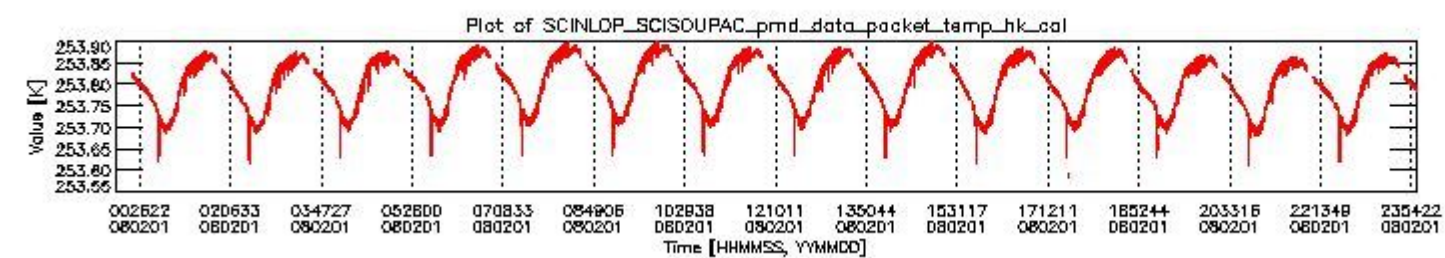
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080201\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080201\_1.PNG

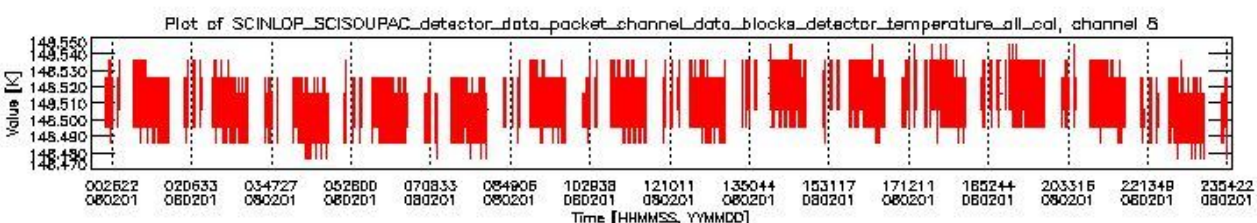
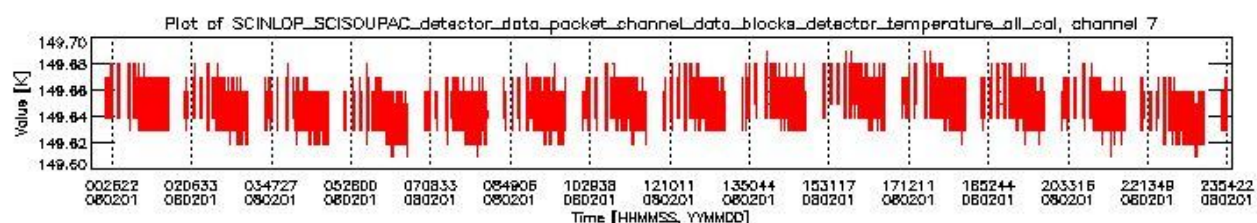
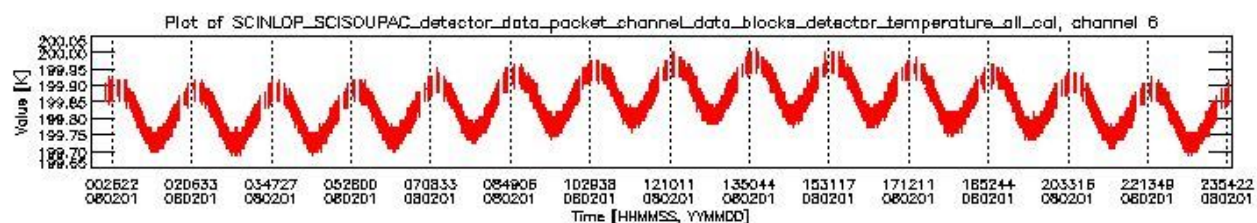
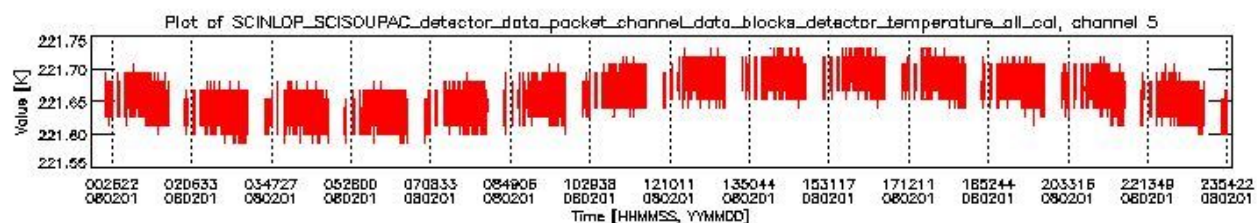
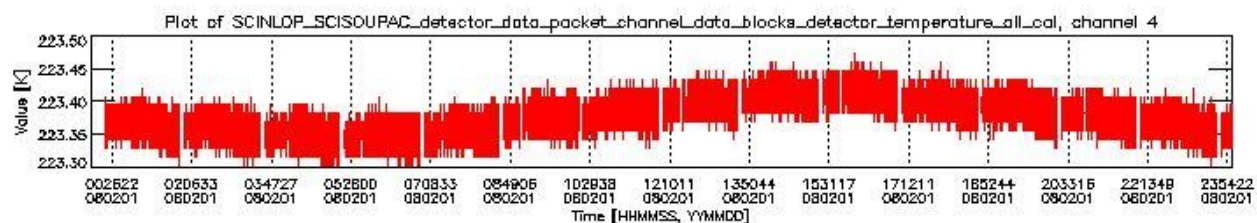
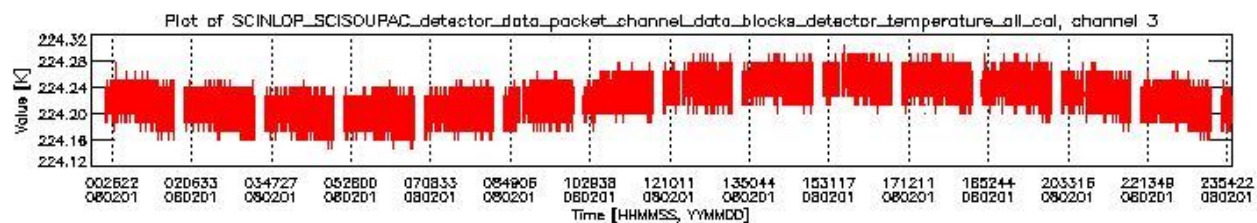
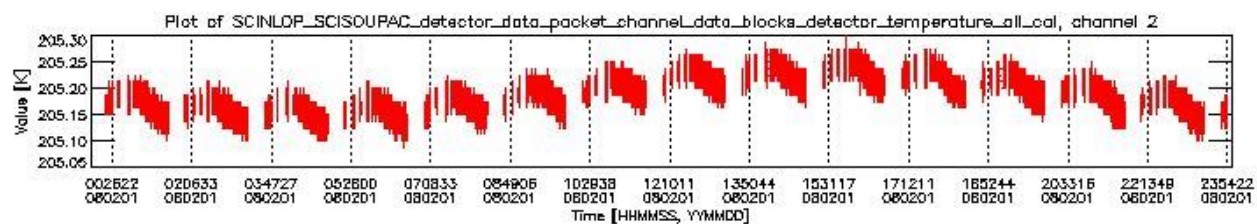
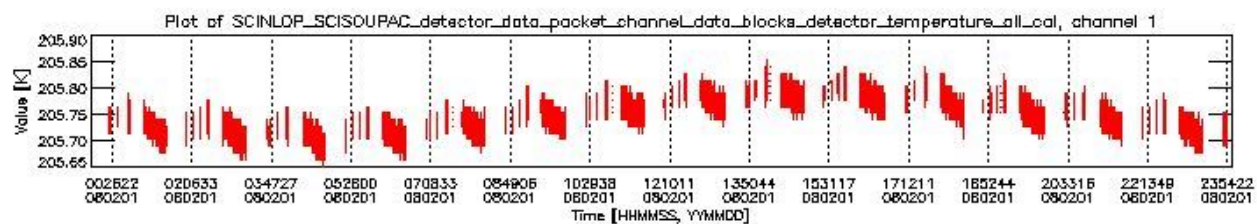


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080201\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080201\_3.PNG



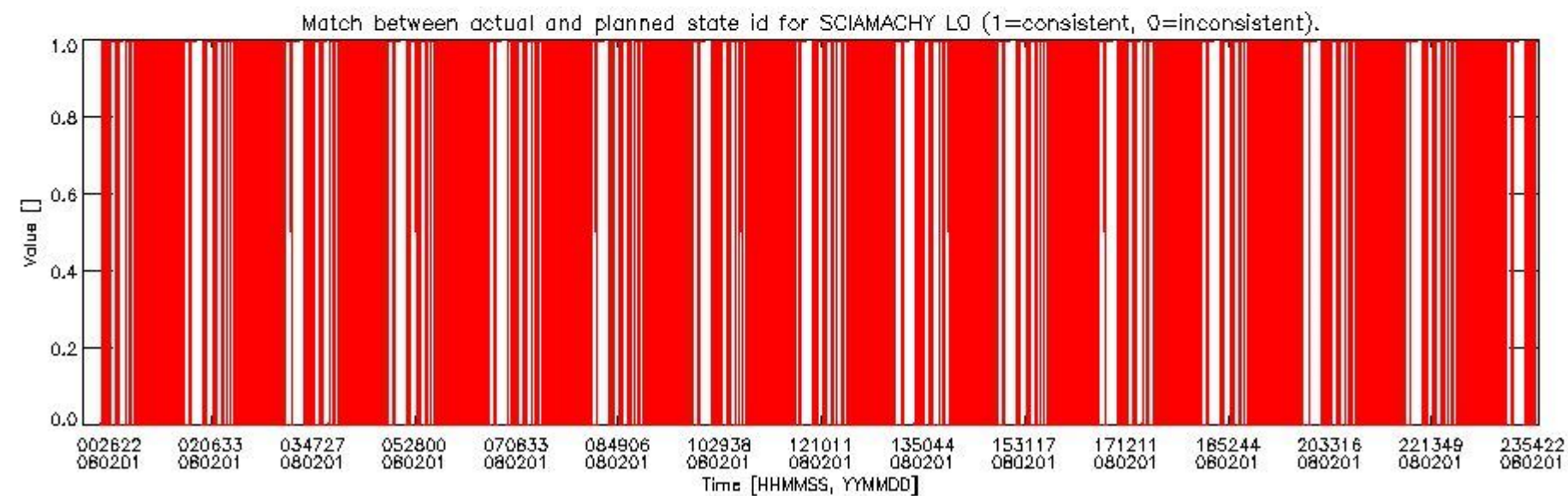
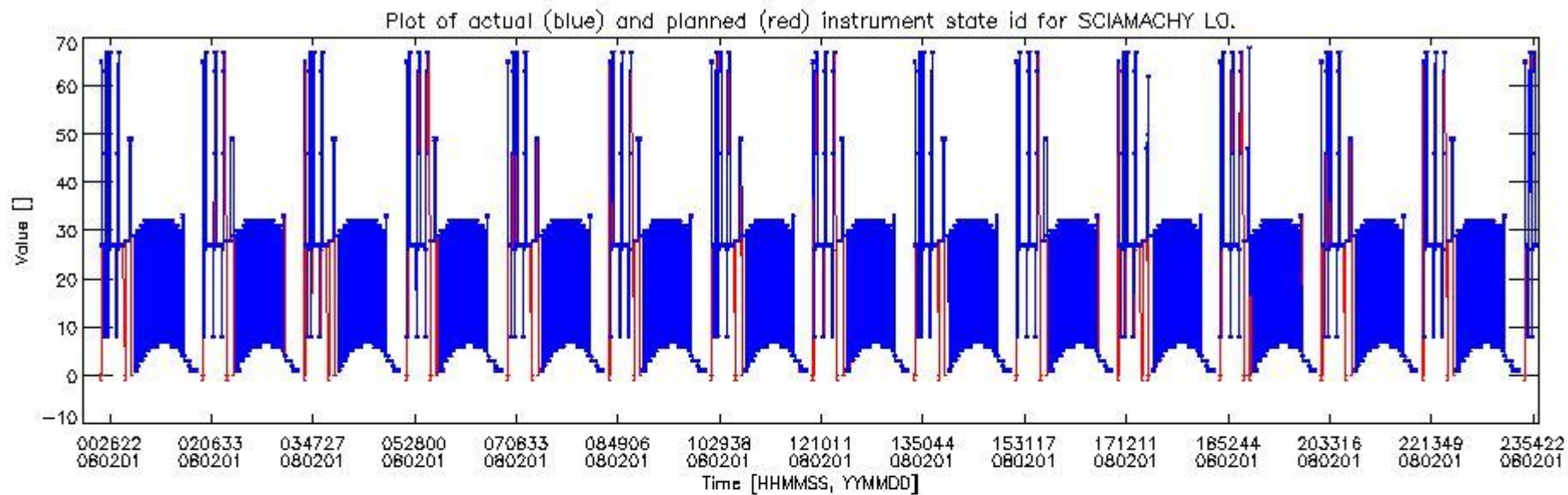


### 0.3 State monitoring

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: **38669**

#	Actual time	Actual value	Planned time	Planned value
0	01FEB2008 00:17:42.523185	65	01FEB2008 00:17:42.523185	0
1	01FEB2008 00:17:43.148166	65	01FEB2008 00:17:43.148166	0
2	01FEB2008 00:17:43.648184	65	01FEB2008 00:17:43.648184	0
3	01FEB2008 00:17:44.148161	65	01FEB2008 00:17:44.148161	0
4	01FEB2008 00:17:44.648178	65	01FEB2008 00:17:44.648178	0
5	01FEB2008 00:17:45.148155	65	01FEB2008 00:17:45.148155	0
6	01FEB2008 00:17:45.648173	65	01FEB2008 00:17:45.648173	0
7	01FEB2008 00:17:46.148190	65	01FEB2008 00:17:46.148190	0
8	01FEB2008 00:17:46.648167	65	01FEB2008 00:17:46.648167	0
9	01FEB2008 00:17:47.148185	65	01FEB2008 00:17:47.148185	0
10	01FEB2008 00:17:47.523158	65	01FEB2008 00:17:47.523158	0
11	01FEB2008 00:17:47.648162	65	01FEB2008 00:17:47.648162	0
12	01FEB2008 00:17:48.148179	65	01FEB2008 00:17:48.148179	0
13	01FEB2008 00:17:48.648157	65	01FEB2008 00:17:48.648157	0
14	01FEB2008 00:17:49.148174	65	01FEB2008 00:17:49.148174	0
15	01FEB2008 00:18:26.277081	27	01FEB2008 00:18:26.277081	0
16	01FEB2008 00:18:27.277076	27	01FEB2008 00:18:27.277076	0
17	01FEB2008 00:18:28.214588	27	01FEB2008 00:18:28.214588	0
18	01FEB2008 00:18:28.964574	27	01FEB2008 00:18:28.964574	0
19	01FEB2008 00:18:29.902087	27	01FEB2008 00:18:29.902087	0
	...	...	...	...



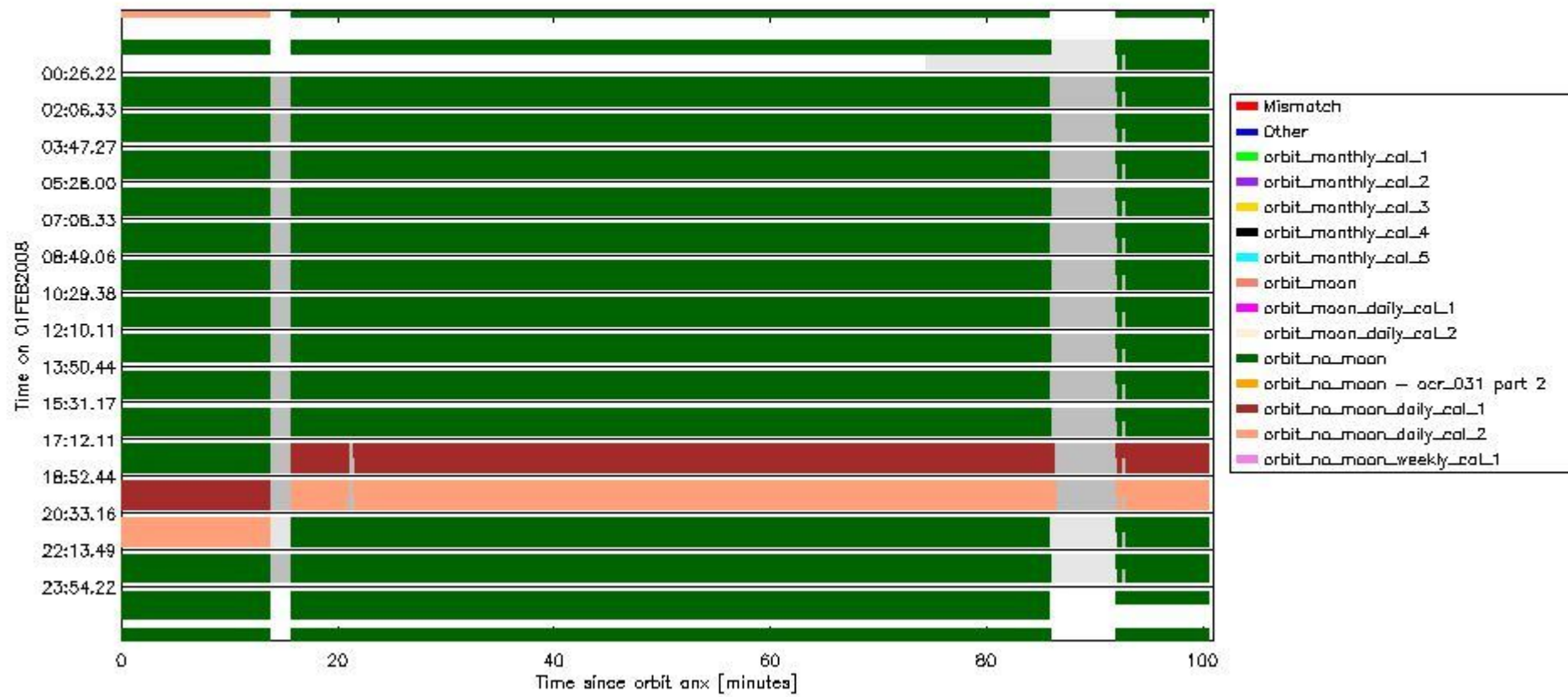
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080201\_5.PNG

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 01FEB2008.  
 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\_20080201\_6.PNG

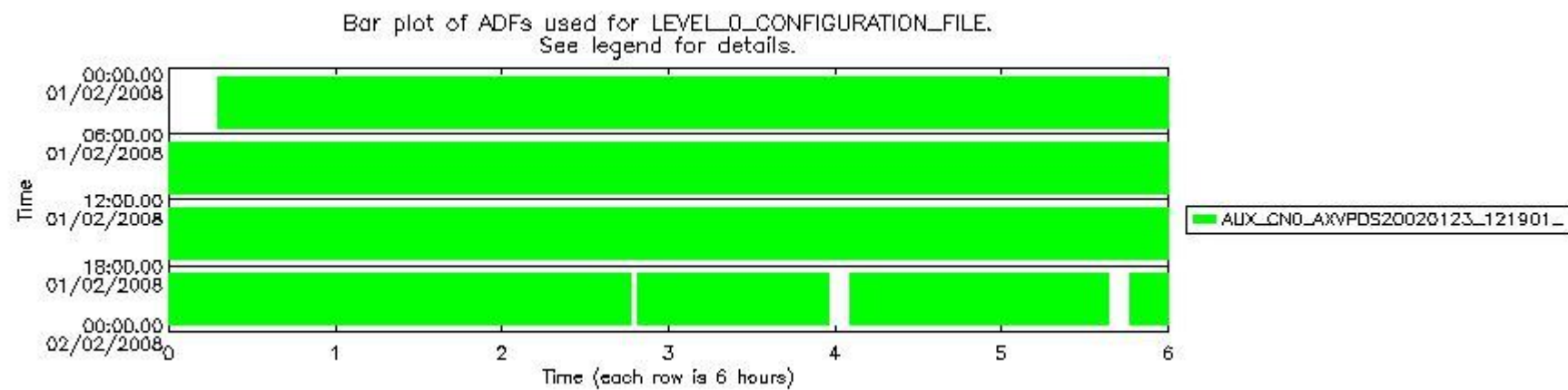
## 0.4 ADF monitoring

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

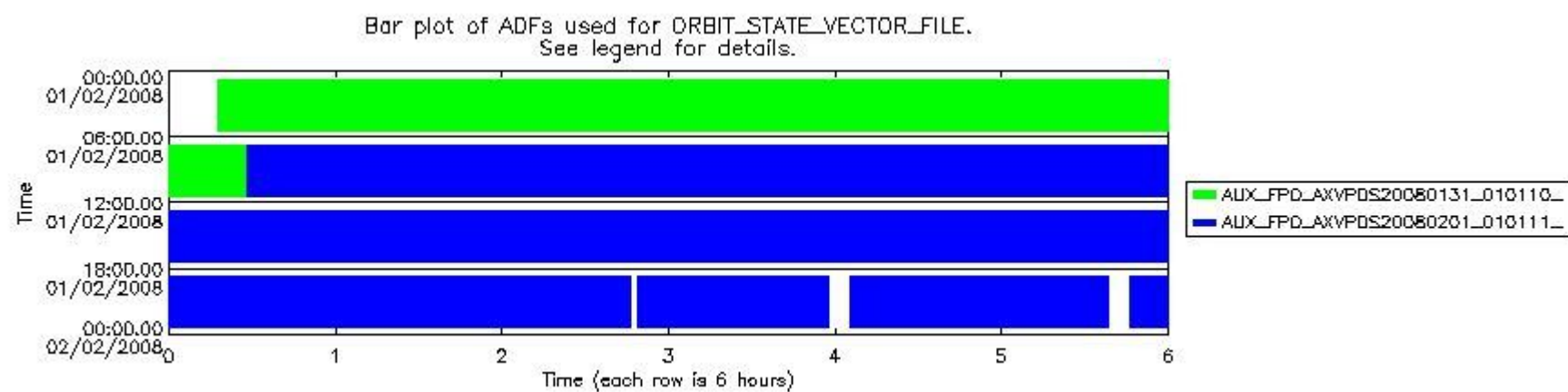
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

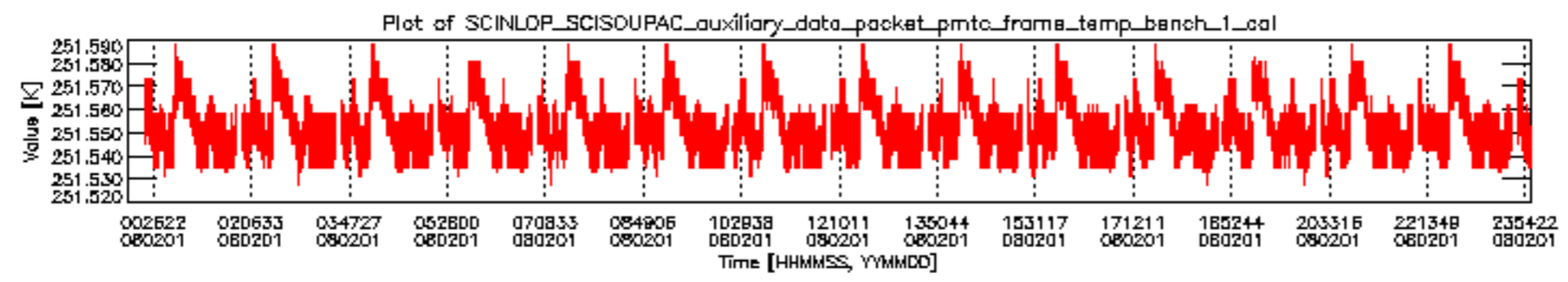
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
<b>1</b>	<b>AUX_FPO_AXVPDS20080131_010110_20080130_195554_20080209_212207</b>
<b>2</b>	<b>AUX_FPO_AXVPDS20080201_010111_20080131_192417_20080210_205030</b>



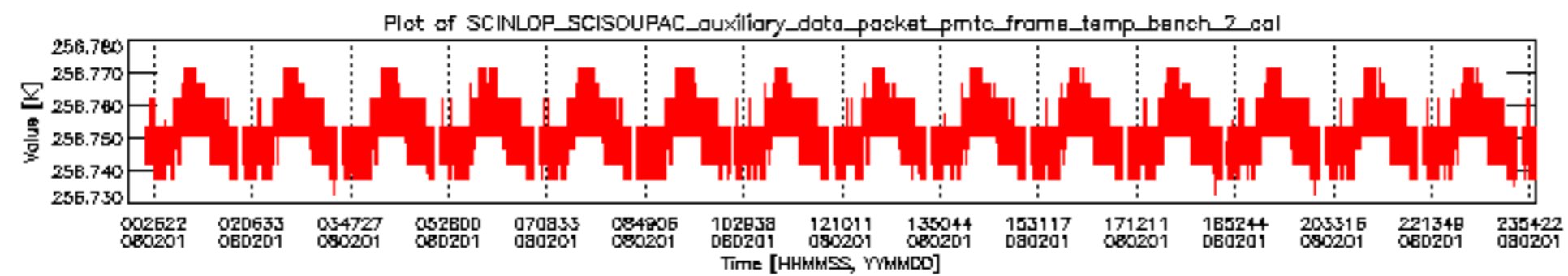
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080201\_7.PNG

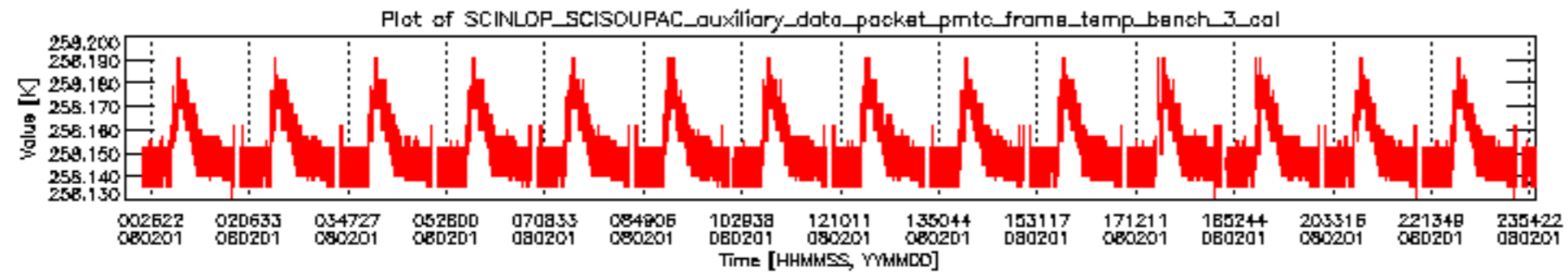


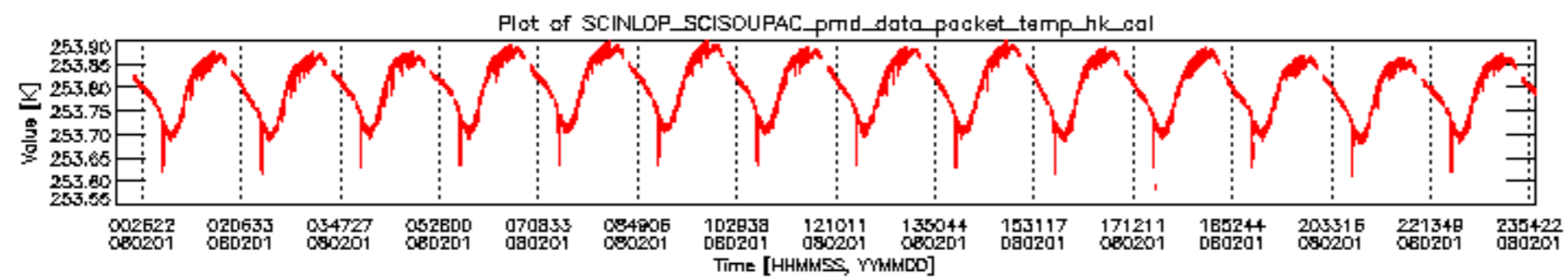
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080201\_8.PNG

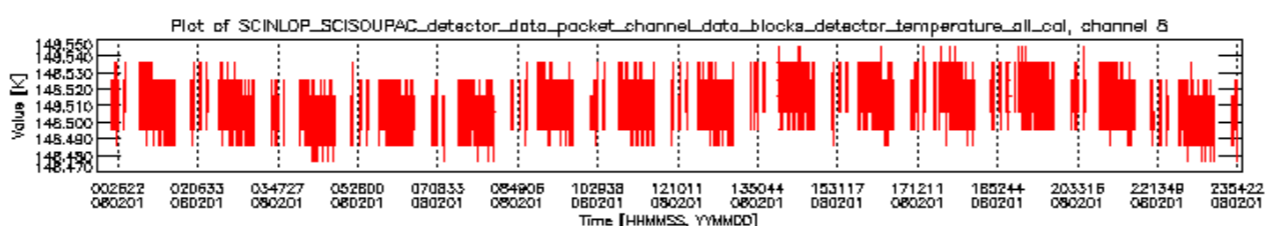
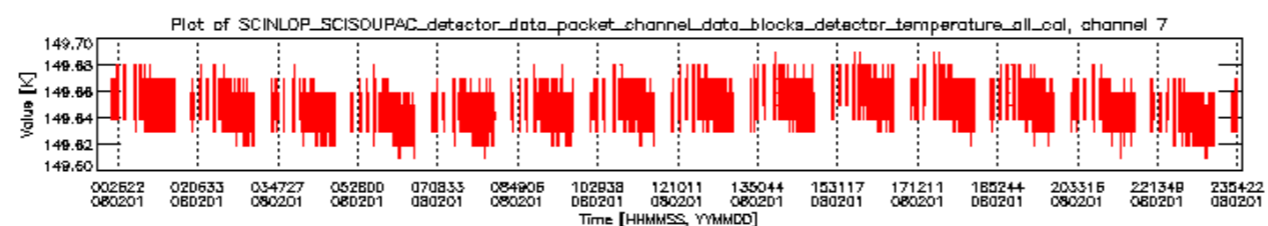
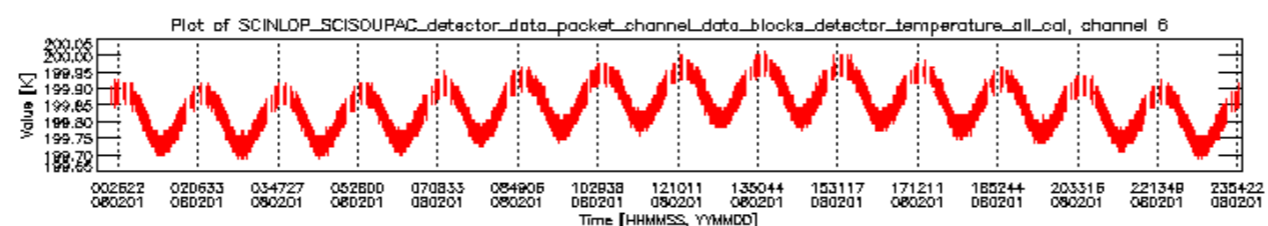
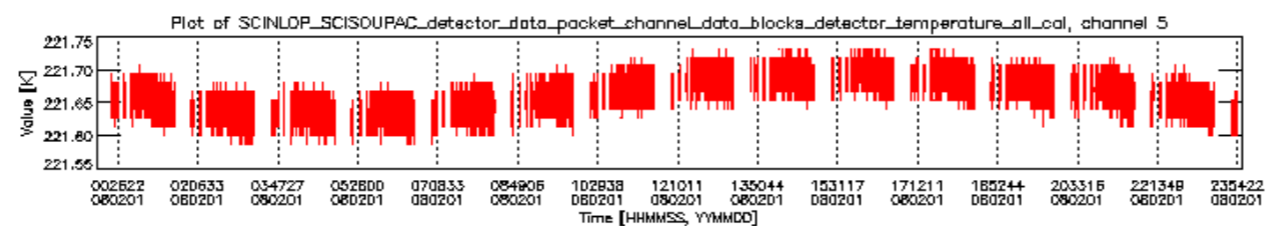
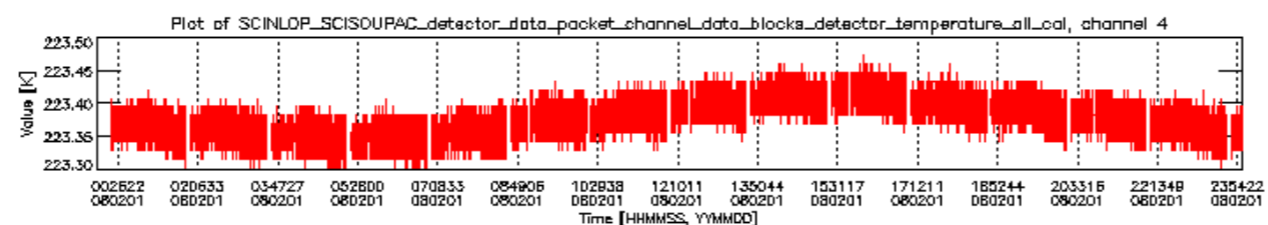
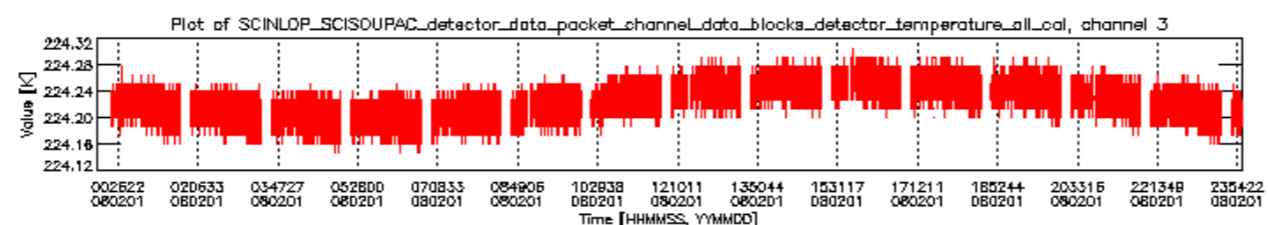
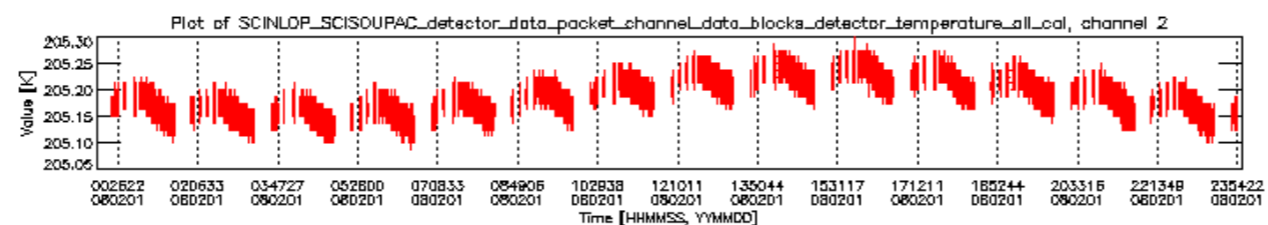
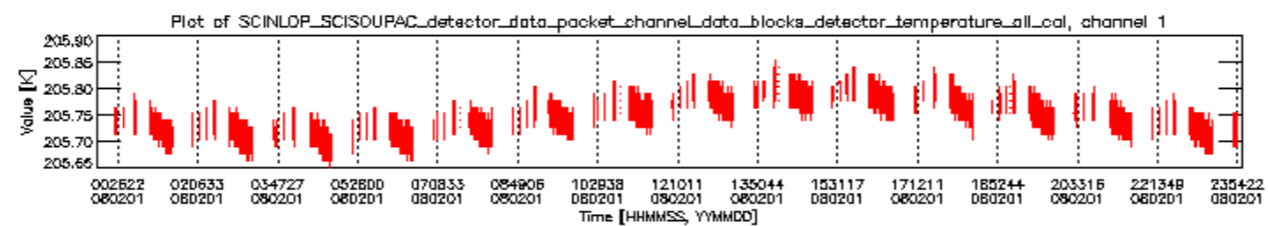




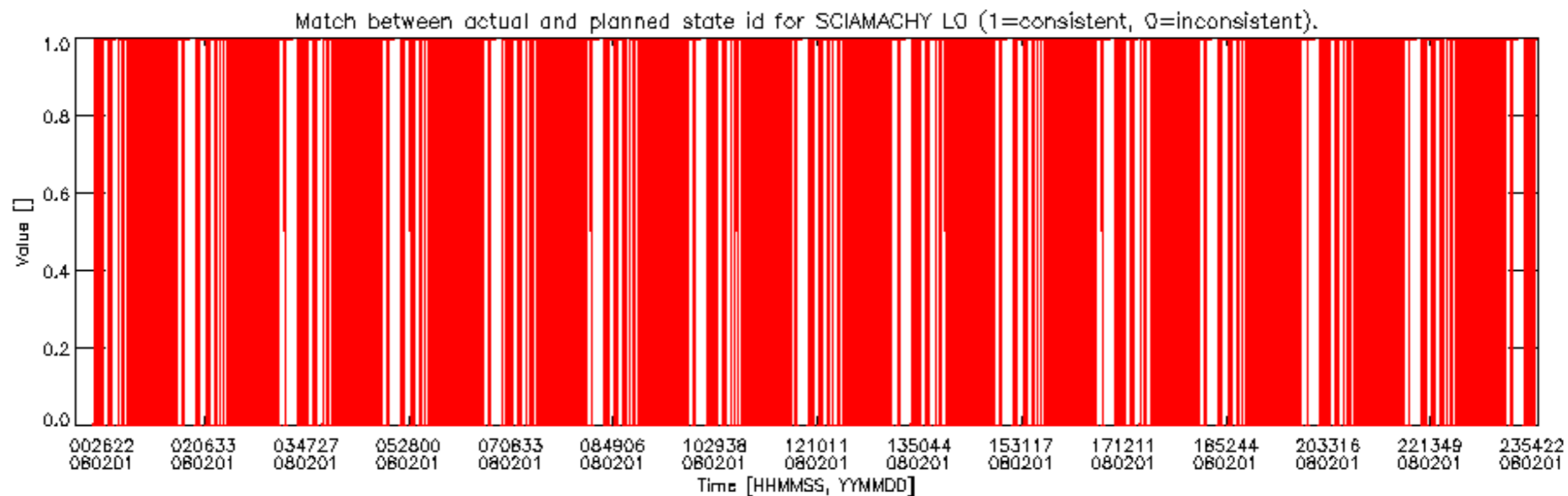
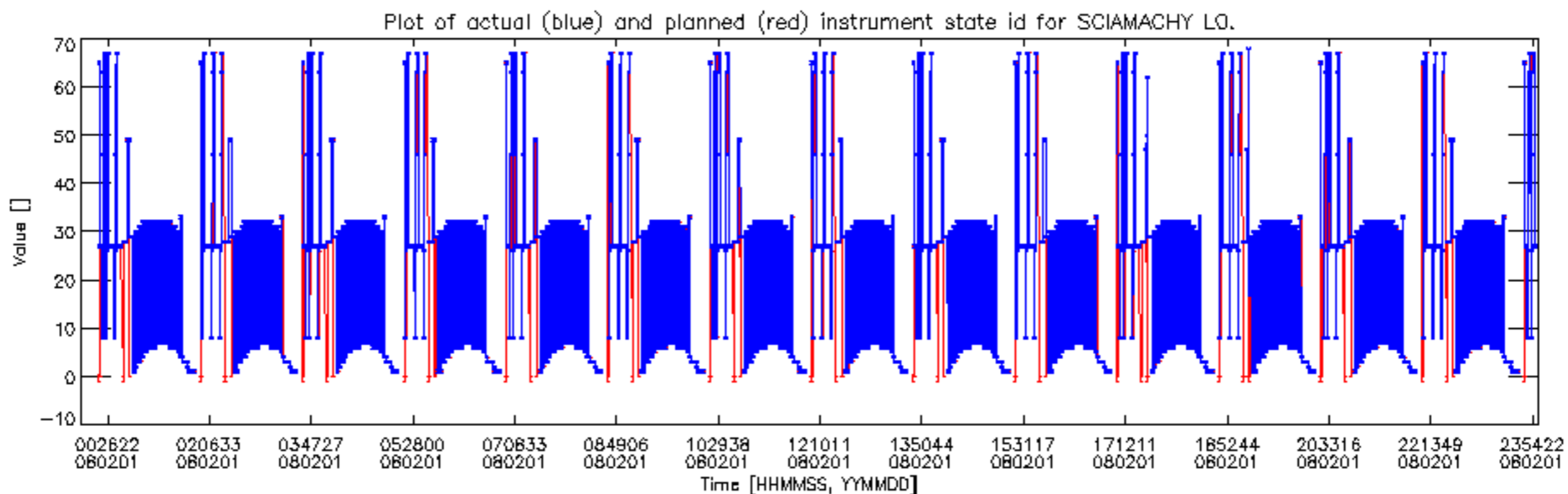




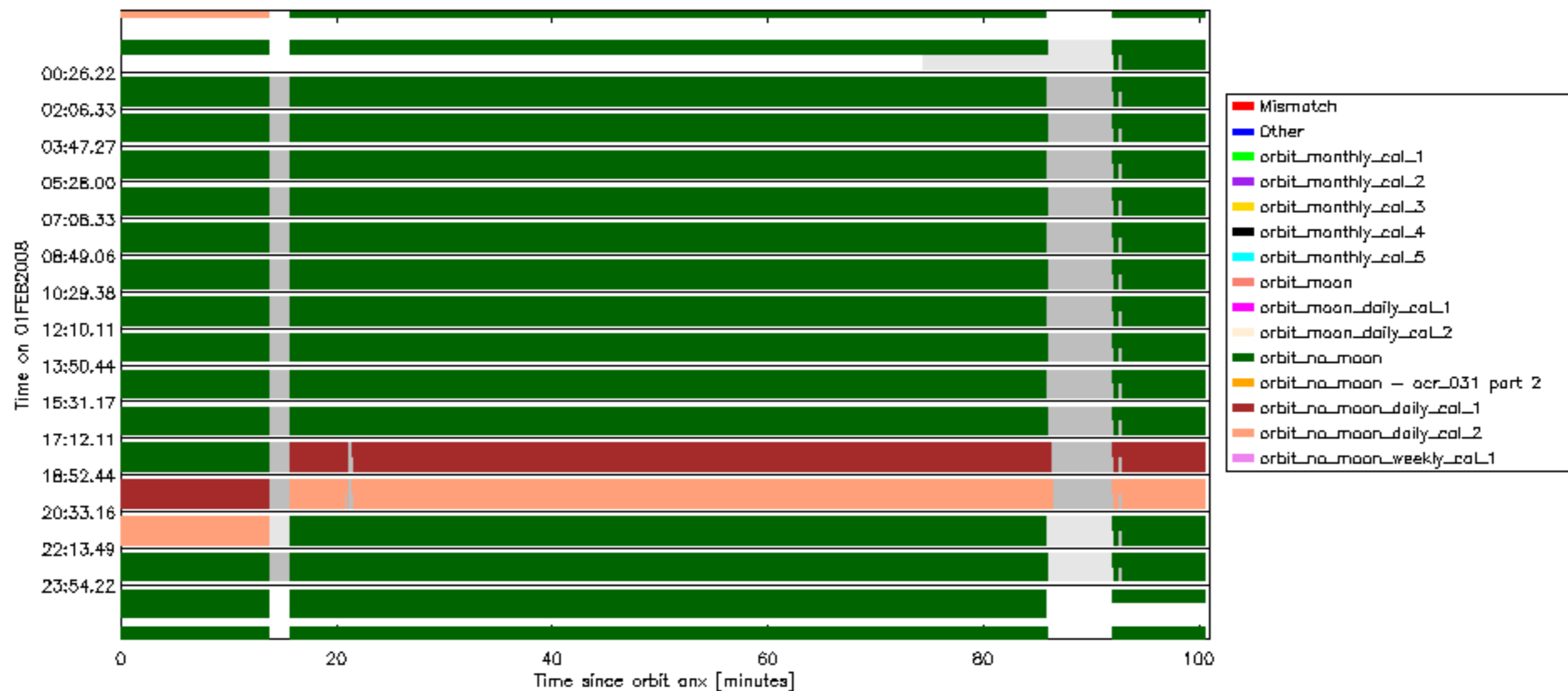


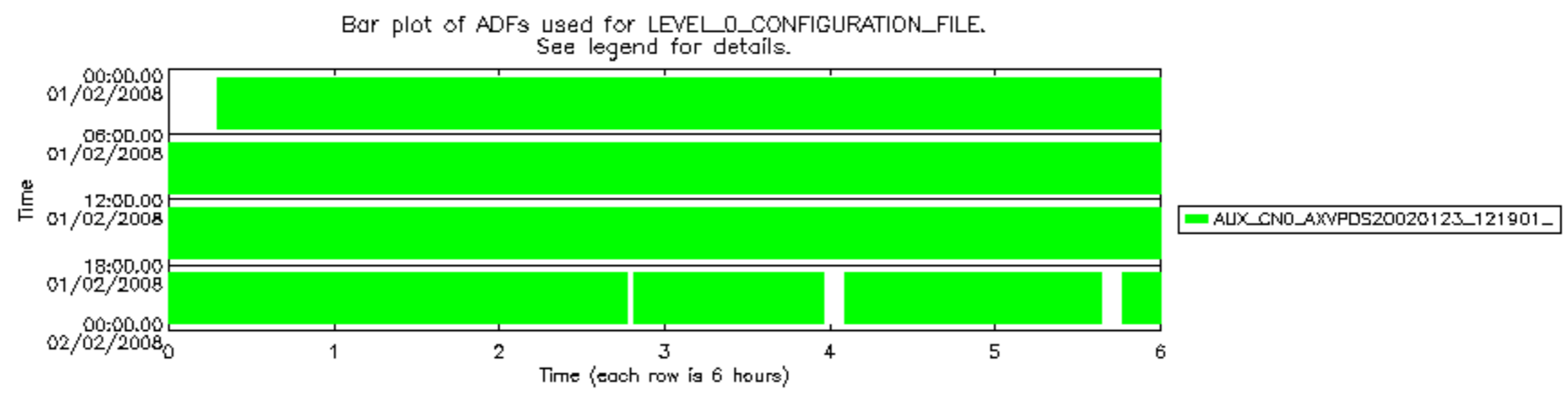






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 01FEB2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

