

## 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	11JAN2009 05:22:57
Data source version	KSPT_L0/4303-N
Processing scope for products	07JAN2009 00:00:00 to 08JAN2009 00:00:00
Start time of first product within scope	07JAN2009 00:01:49
Stop time of last product within scope	08JAN2009 01:03:55
Total number of level 0 products	16
Number of level 0 products with errors	1

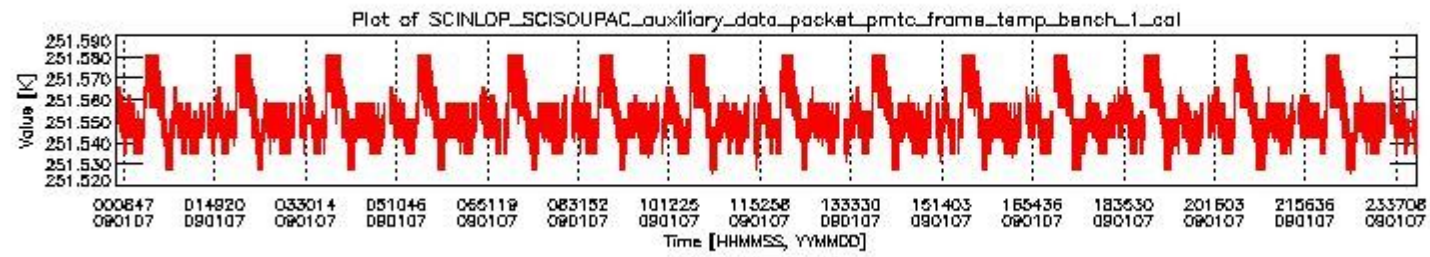
### 0.1.2 Summary per product

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

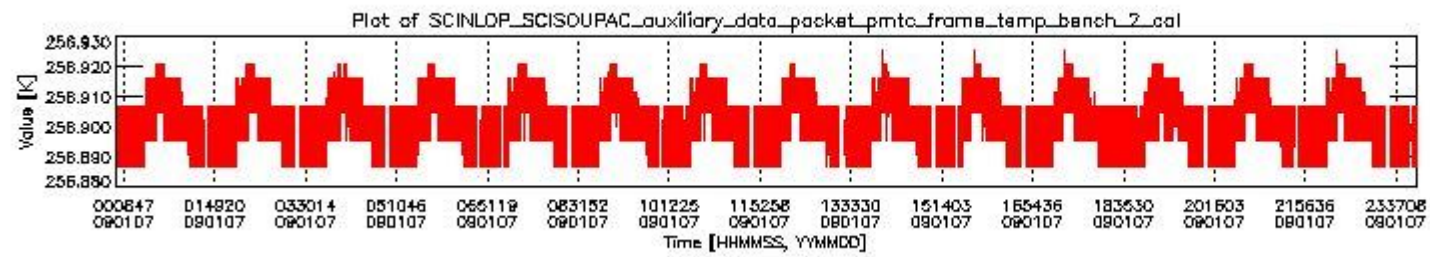
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090107_000149_000056252075_00216_35841_8281.N1	07JAN2009 00:01:49	07JAN2009 01:35:35	0	0	0	0	0
1	SCI_NL__OPNPDE20090107_013426_000047282075_00217_35842_8240.N1	07JAN2009 01:34:26	07JAN2009 02:53:14	0	0	0	0	0
2	SCI_NL__OPNPDE20090107_025314_000058552075_00218_35843_8241.N1	07JAN2009 02:53:14	07JAN2009 04:30:50	0	0	0	0	0
3	SCI_NL__OPNPDE20090107_043050_000060232075_00219_35844_8242.N1	07JAN2009 04:30:50	07JAN2009 06:11:13	0	0	0	0	0
4	SCI_NL__OPNPDK20090107_061113_000039892075_00220_35845_0386.N1	07JAN2009 06:11:13	07JAN2009 07:17:42	0	0	0	0	0
5	SCI_NL__OPNPDK20090107_071646_000062162075_00221_35846_0387.N1	07JAN2009 07:16:46	07JAN2009 09:00:22	1	1	1	0	0
6	SCI_NL__OPNPDK20090107_085913_000059802075_00222_35847_0388.N1	07JAN2009 08:59:13	07JAN2009 10:38:53	0	0	0	0	0
7	SCI_NL__OPNPDK20090107_103701_000060922075_00223_35848_0389.N1	07JAN2009 10:37:01	07JAN2009 12:18:33	0	0	0	0	0
8	SCI_NL__OPNPDK20090107_121641_000061472075_00224_35849_0390.N1	07JAN2009 12:16:41	07JAN2009 13:59:08	0	0	0	0	0
9	SCI_NL__OPNPDK20090107_135717_000058982075_00225_35850_0391.N1	07JAN2009 13:57:17	07JAN2009 15:35:35	0	0	0	0	0
10	SCI_NL__OPNPDK20090107_153535_000058672075_00226_35851_0392.N1	07JAN2009 15:35:35	07JAN2009 17:13:22	0	0	0	0	0
11	SCI_NL__OPNPDK20090107_171226_000060362075_00227_35852_0393.N1	07JAN2009 17:12:26	07JAN2009 18:53:02	0	0	0	0	0
12	SCI_NL__OPNPDK20090107_185302_000058022075_00228_35853_0394.N1	07JAN2009 18:53:02	07JAN2009 20:29:44	0	0	0	0	0
13	SCI_NL__OPNPDE20090107_202944_000043802075_00229_35854_8243.N1	07JAN2009 20:29:44	07JAN2009 21:42:43	0	0	0	0	0
14	SCI_NL__OPNPDE20090107_214135_000060922075_00229_35854_8244.N1	07JAN2009 21:41:35	07JAN2009 23:23:06	0	0	0	0	0
15	SCI_NL__OPNPDE20090107_233011_000056242075_00230_35855_8245.N1	07JAN2009 23:30:11	08JAN2009 01:03:55	0	0	0	0	0

## 0.2 Product Quality Indicators

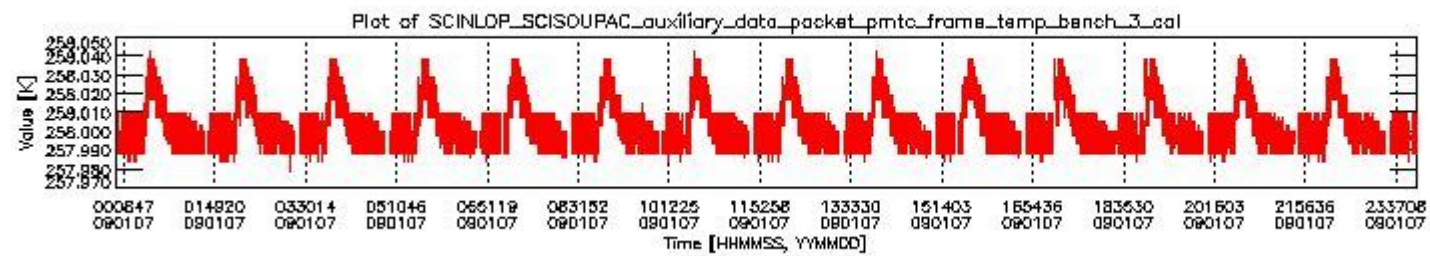
This section shows information about product quality, currently temperatures.



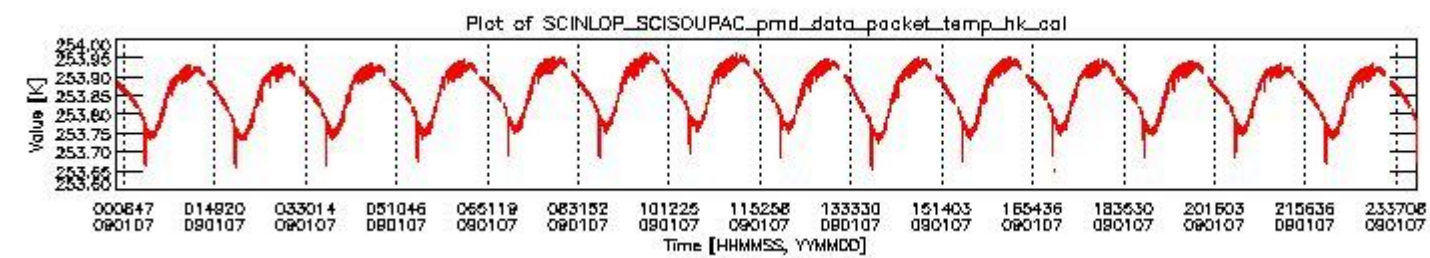
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090107\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090107\_1.PNG

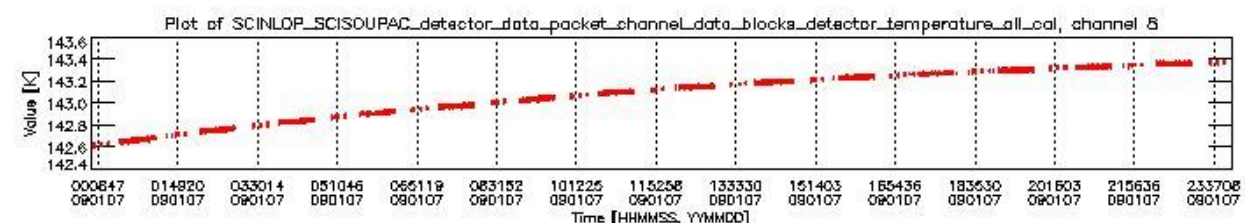
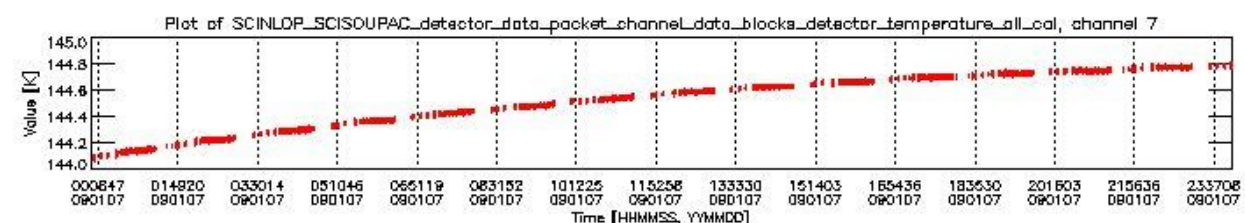
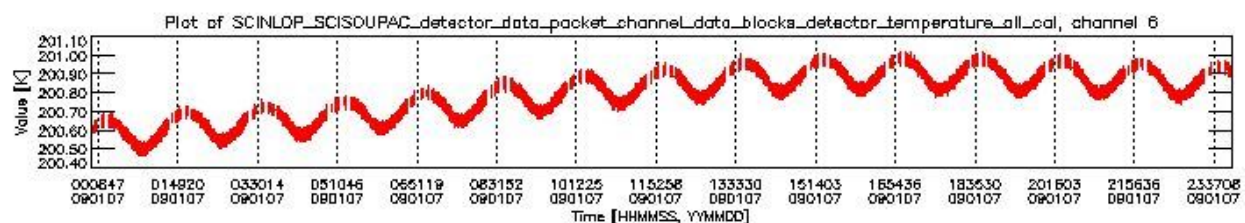
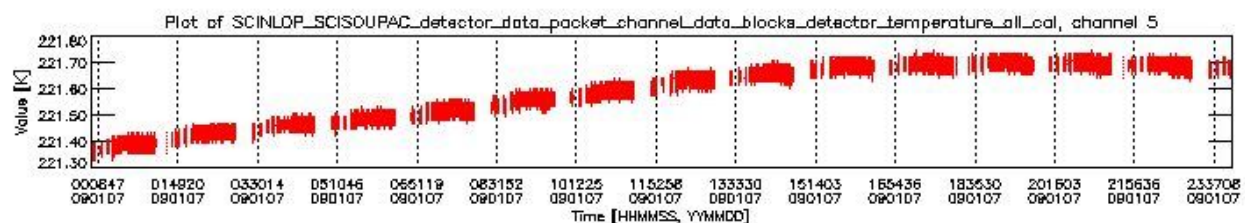
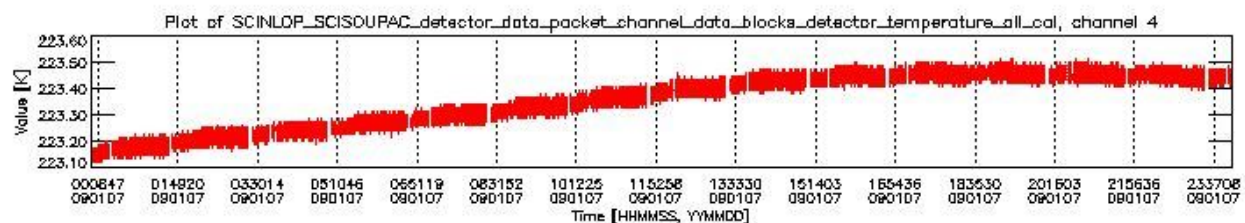
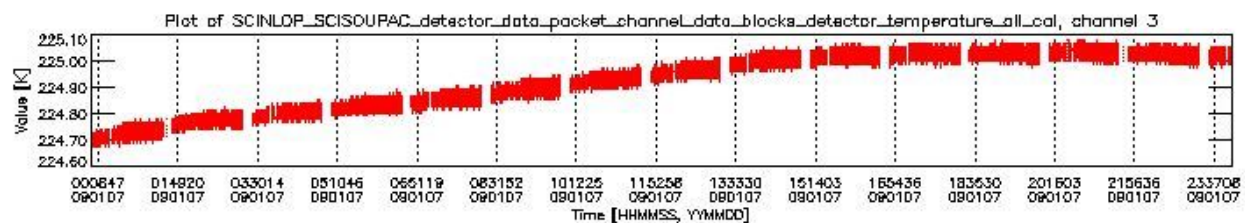
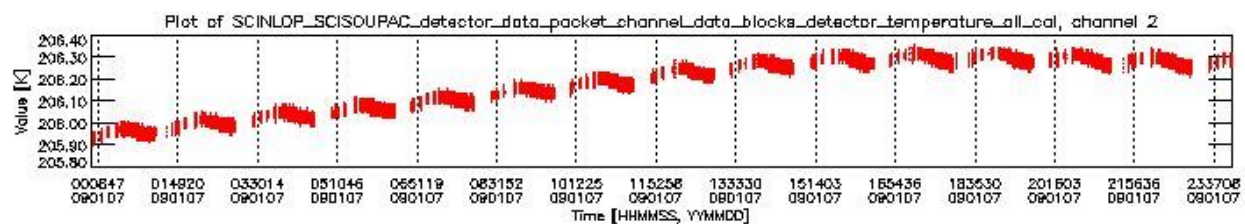
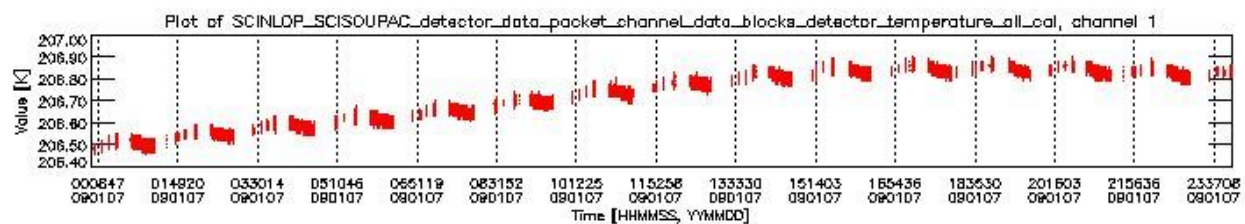


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090107\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090107\_3.PNG



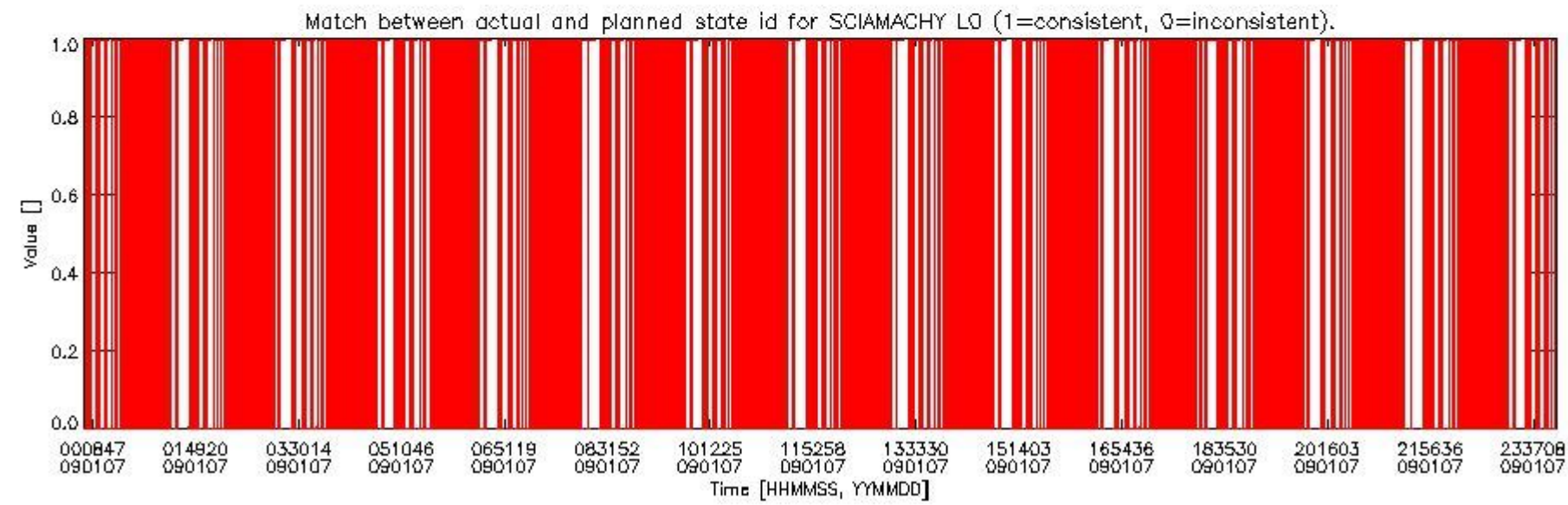
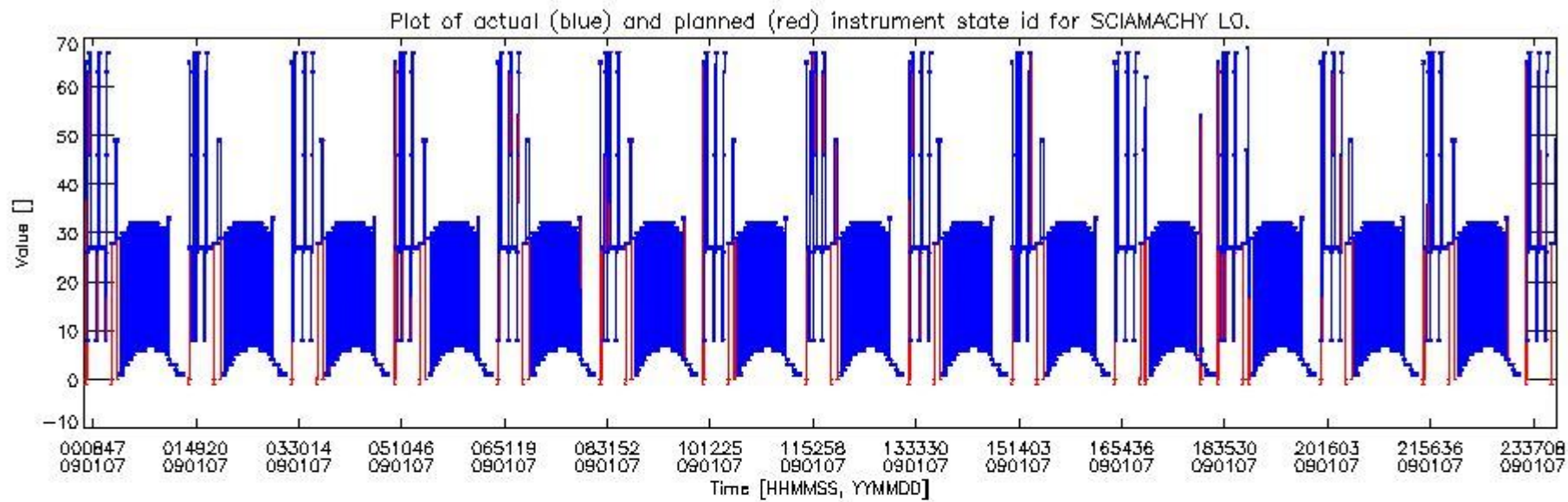


### 0.3 State monitoring

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: **51979**

#	Actual time	Actual value	Planned time	Planned value
0	07JAN2009 00:01:49.975666	65	07JAN2009 00:01:49.975666	0
1	07JAN2009 00:01:50.600647	65	07JAN2009 00:01:50.600647	0
2	07JAN2009 00:01:51.100665	65	07JAN2009 00:01:51.100665	0
3	07JAN2009 00:01:51.600642	65	07JAN2009 00:01:51.600642	0
4	07JAN2009 00:01:52.100659	65	07JAN2009 00:01:52.100659	0
5	07JAN2009 00:01:52.600677	65	07JAN2009 00:01:52.600677	0
6	07JAN2009 00:01:53.100654	65	07JAN2009 00:01:53.100654	0
7	07JAN2009 00:01:53.600671	65	07JAN2009 00:01:53.600671	0
8	07JAN2009 00:01:54.100648	65	07JAN2009 00:01:54.100648	0
9	07JAN2009 00:01:54.600666	65	07JAN2009 00:01:54.600666	0
10	07JAN2009 00:01:54.975639	65	07JAN2009 00:01:54.975639	0
11	07JAN2009 00:01:55.100643	65	07JAN2009 00:01:55.100643	0
12	07JAN2009 00:01:55.600660	65	07JAN2009 00:01:55.600660	0
13	07JAN2009 00:01:56.100638	65	07JAN2009 00:01:56.100638	0
14	07JAN2009 00:01:56.600655	65	07JAN2009 00:01:56.600655	0
15	07JAN2009 00:01:57.100672	65	07JAN2009 00:01:57.100672	0
16	07JAN2009 00:01:57.600650	65	07JAN2009 00:01:57.600650	0
17	07JAN2009 00:01:58.100667	65	07JAN2009 00:01:58.100667	0
18	07JAN2009 00:01:58.600644	65	07JAN2009 00:01:58.600644	0
19	07JAN2009 00:02:33.733465	8	07JAN2009 00:02:33.733465	0
	...	...	...	...



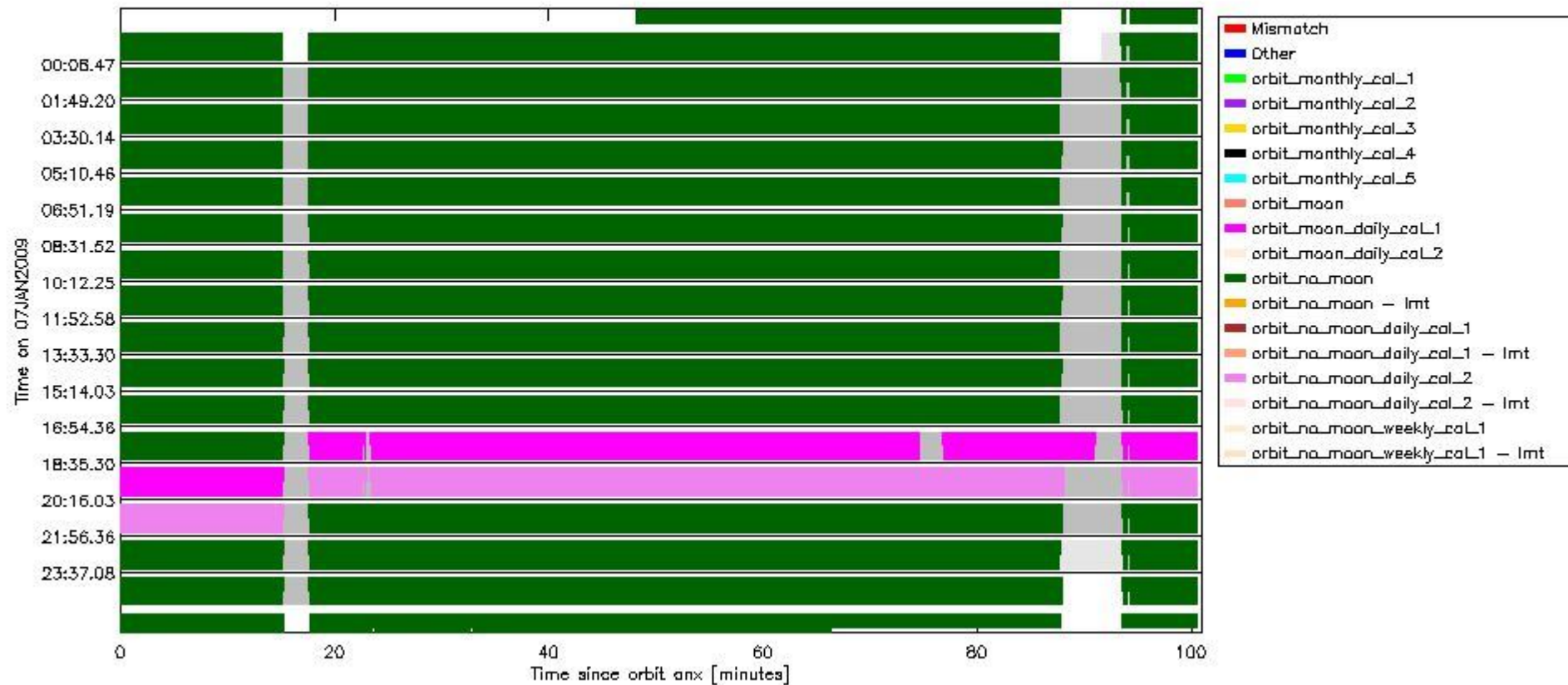
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090107\_5.PNG

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 07JAN2009.  
 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\_20090107\_6.PNG

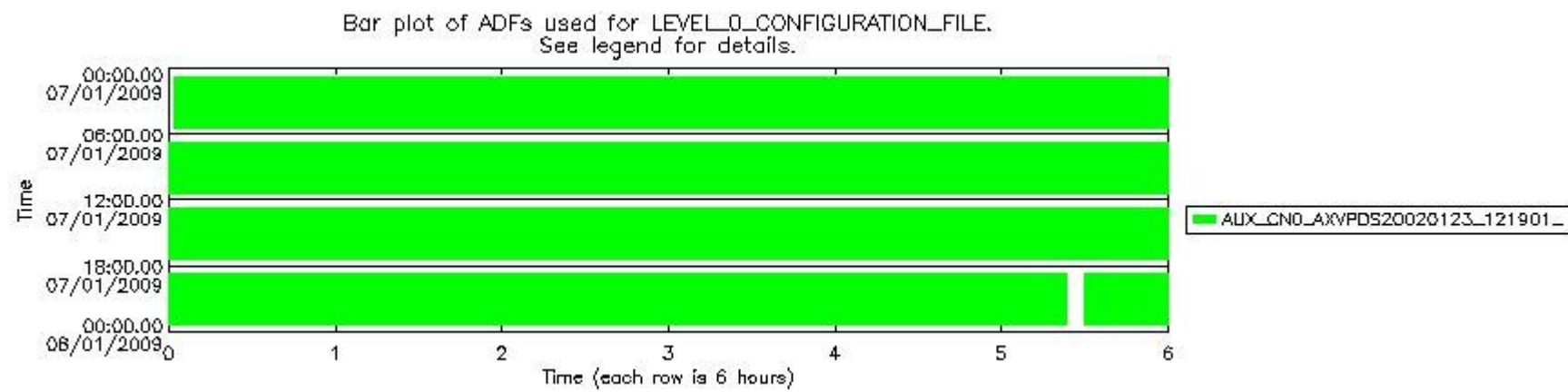
## 0.4 ADF monitoring

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

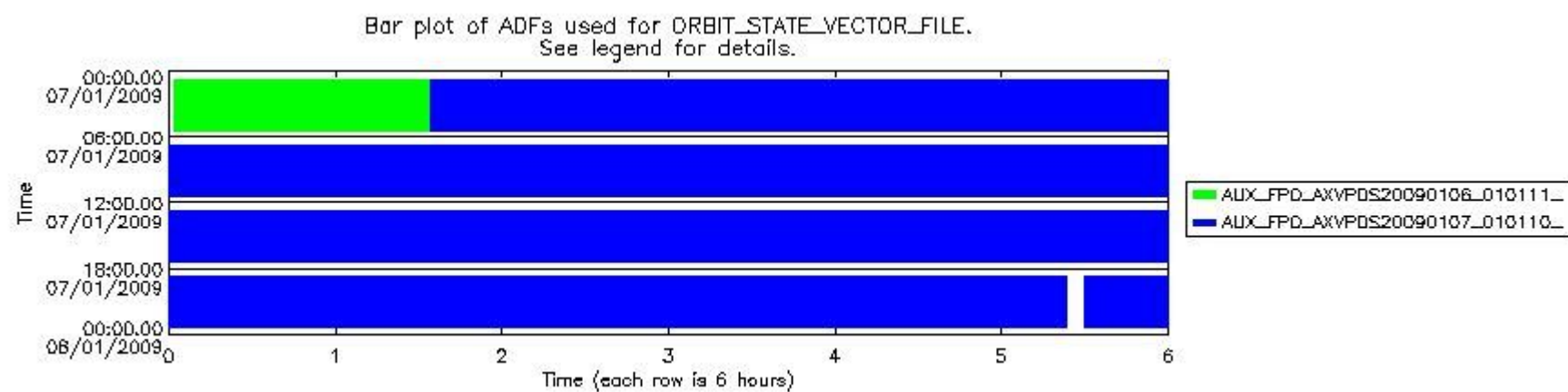
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

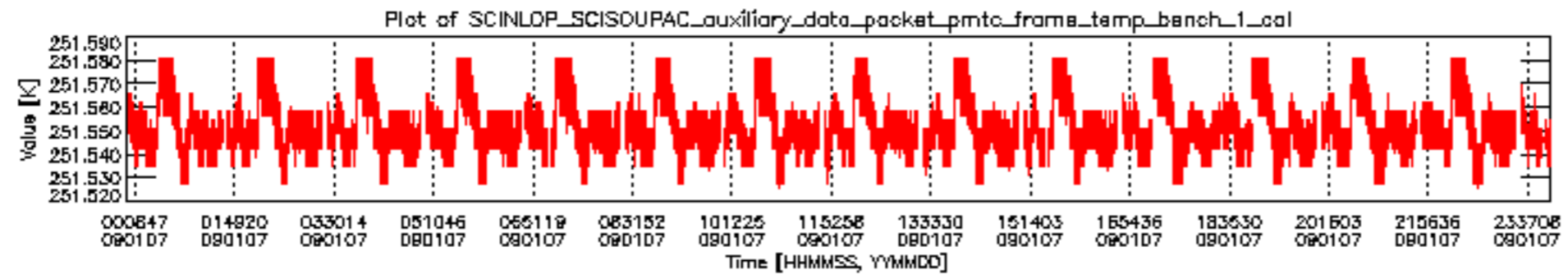
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090106_010111_20090104_182939_20090114_213627
2	AUX_FPO_AXVPDS20090107_010110_20090106_190700_20090116_203313



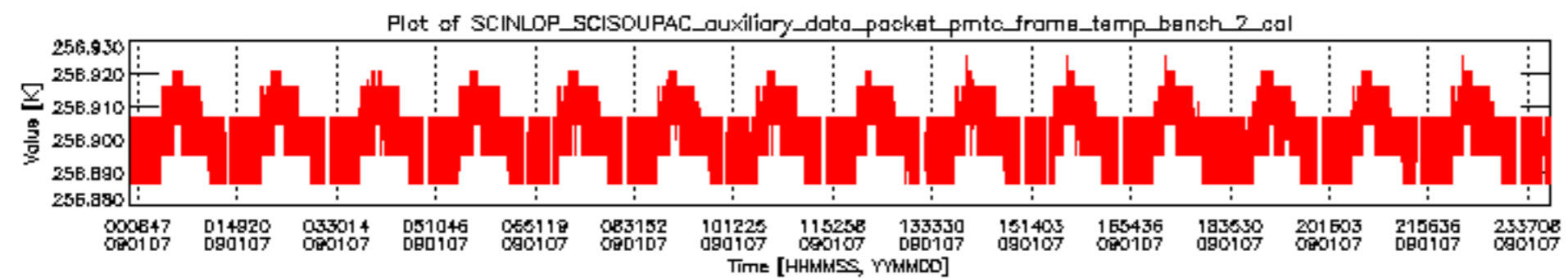
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090107\_7.PNG

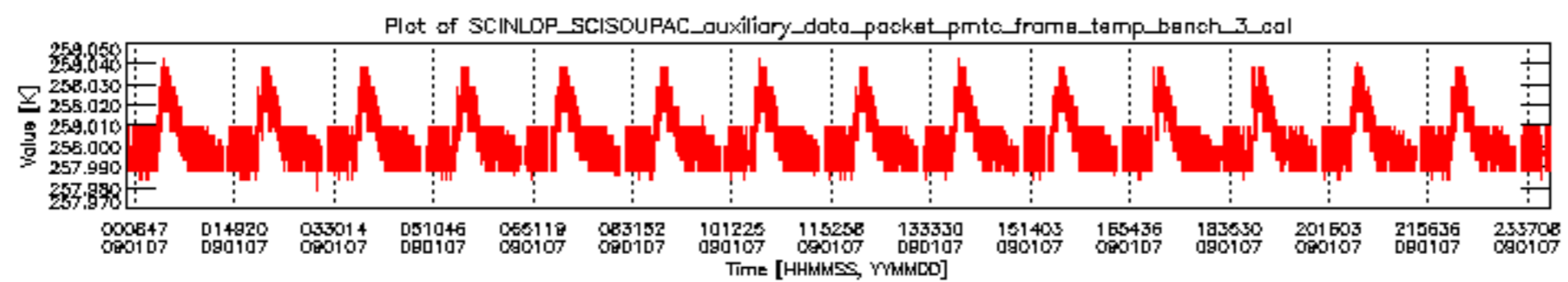


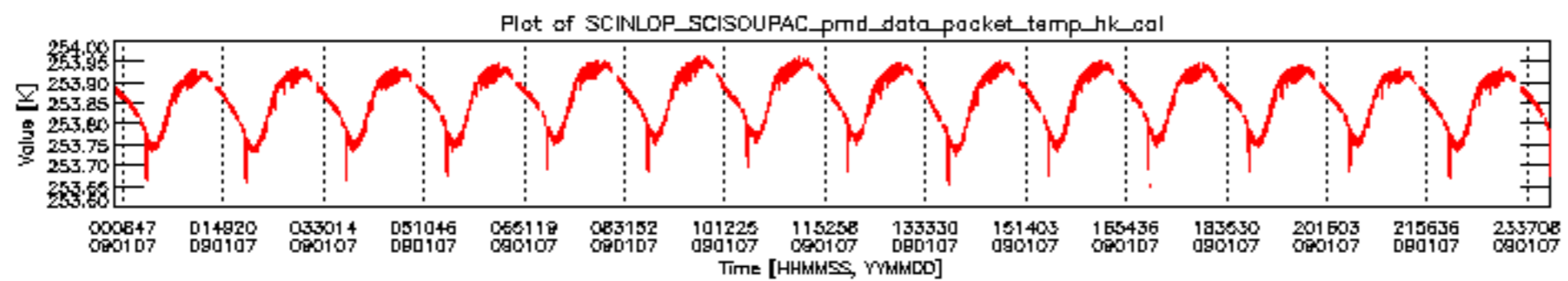
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090107\_8.PNG

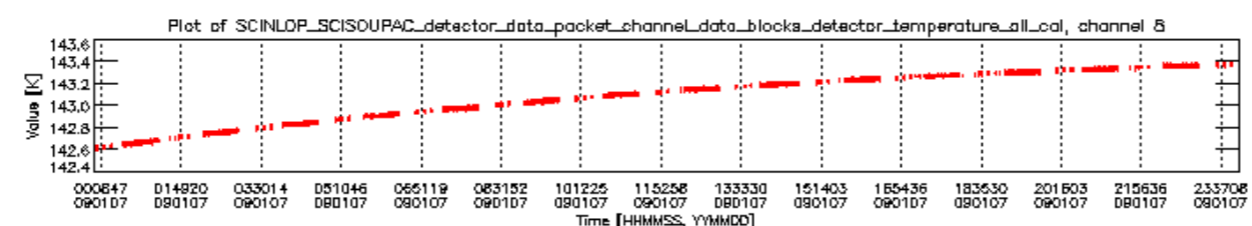
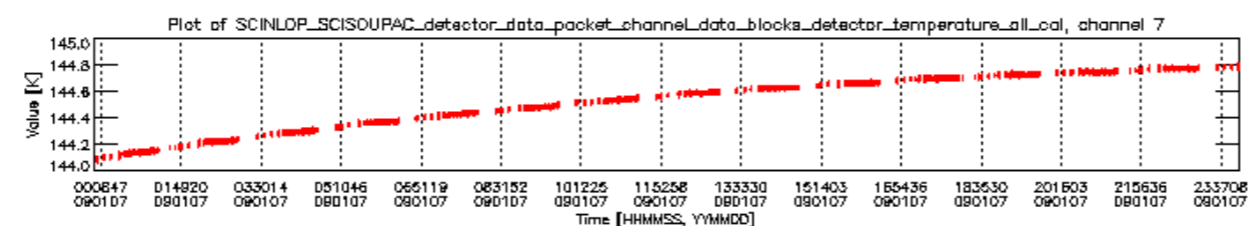
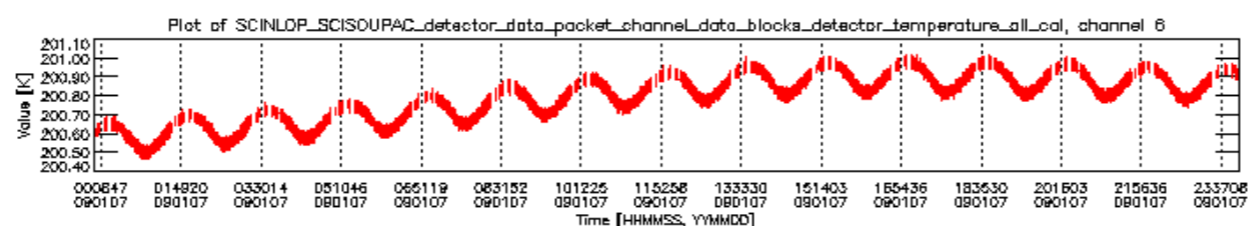
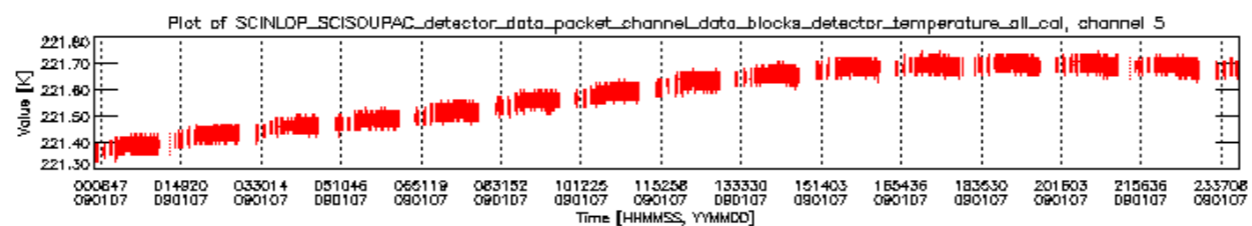
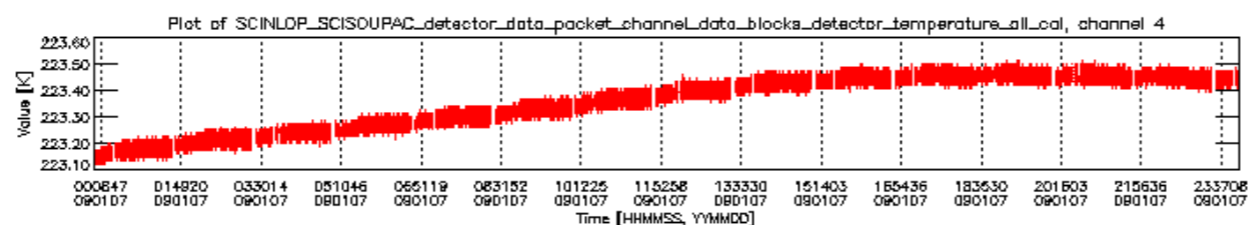
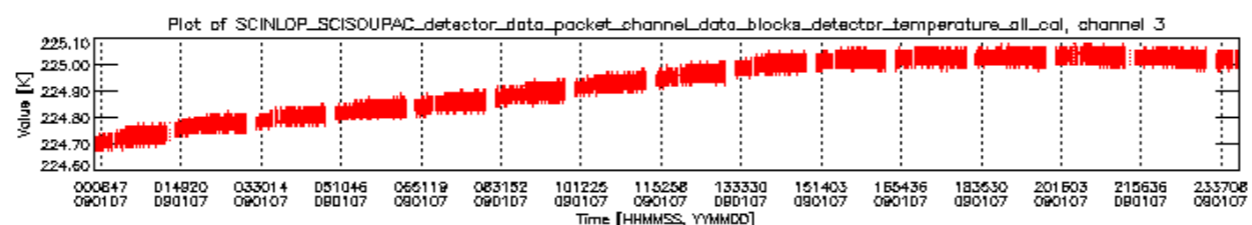
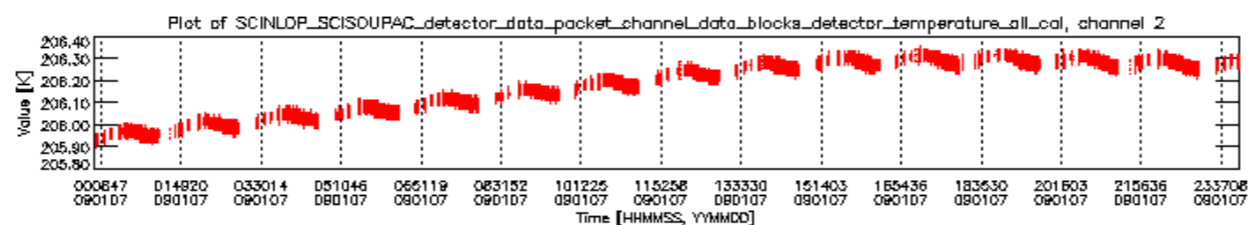
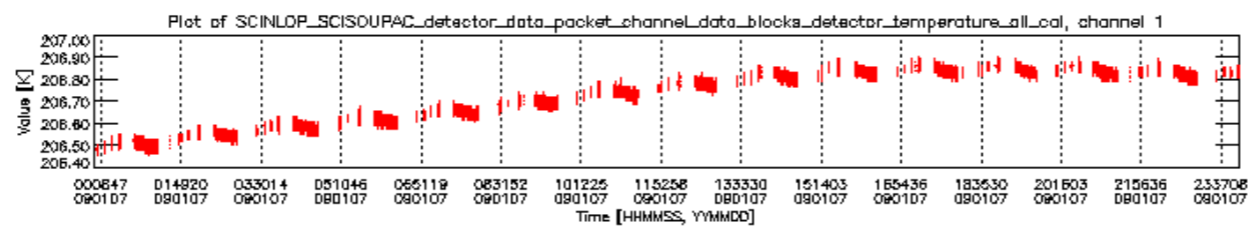




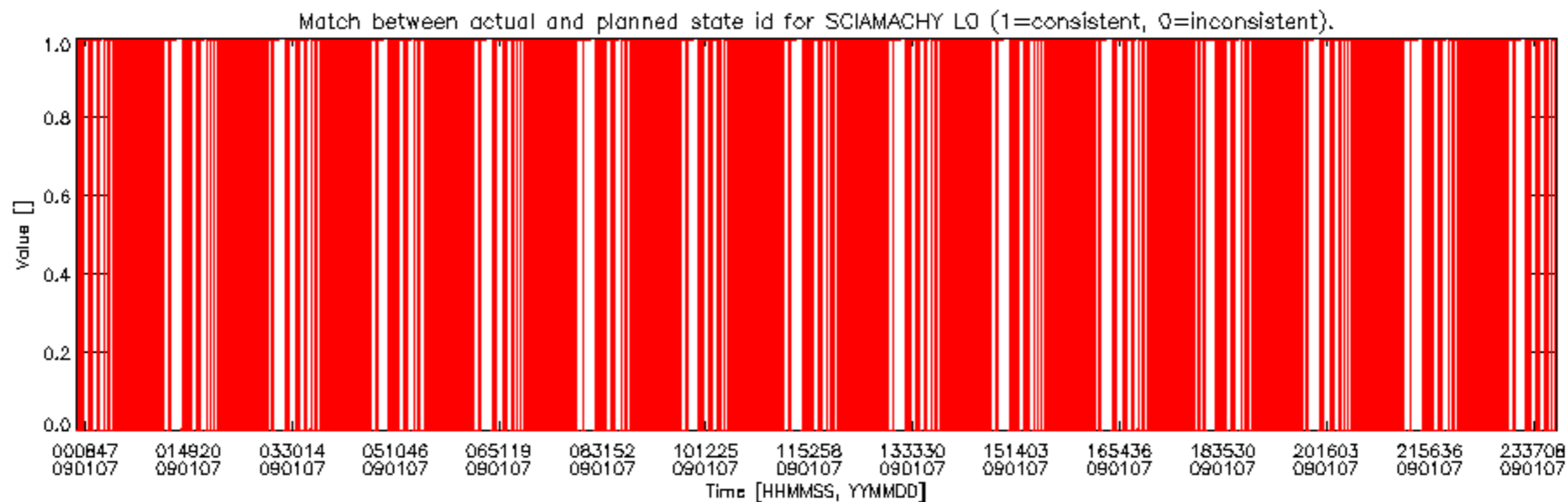
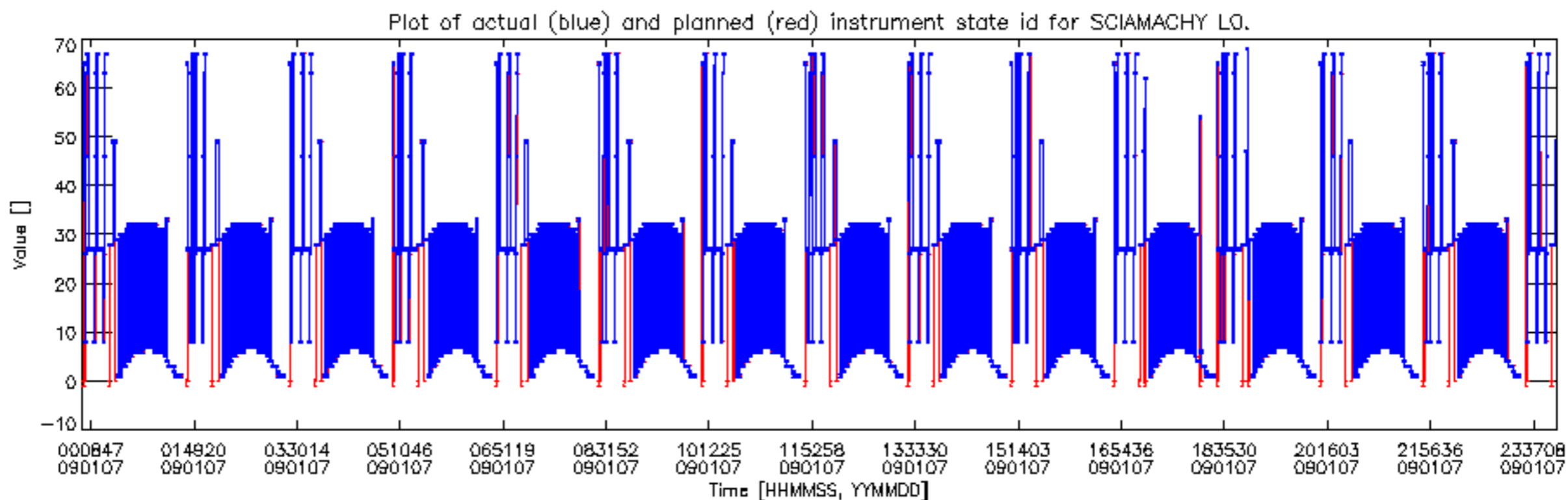




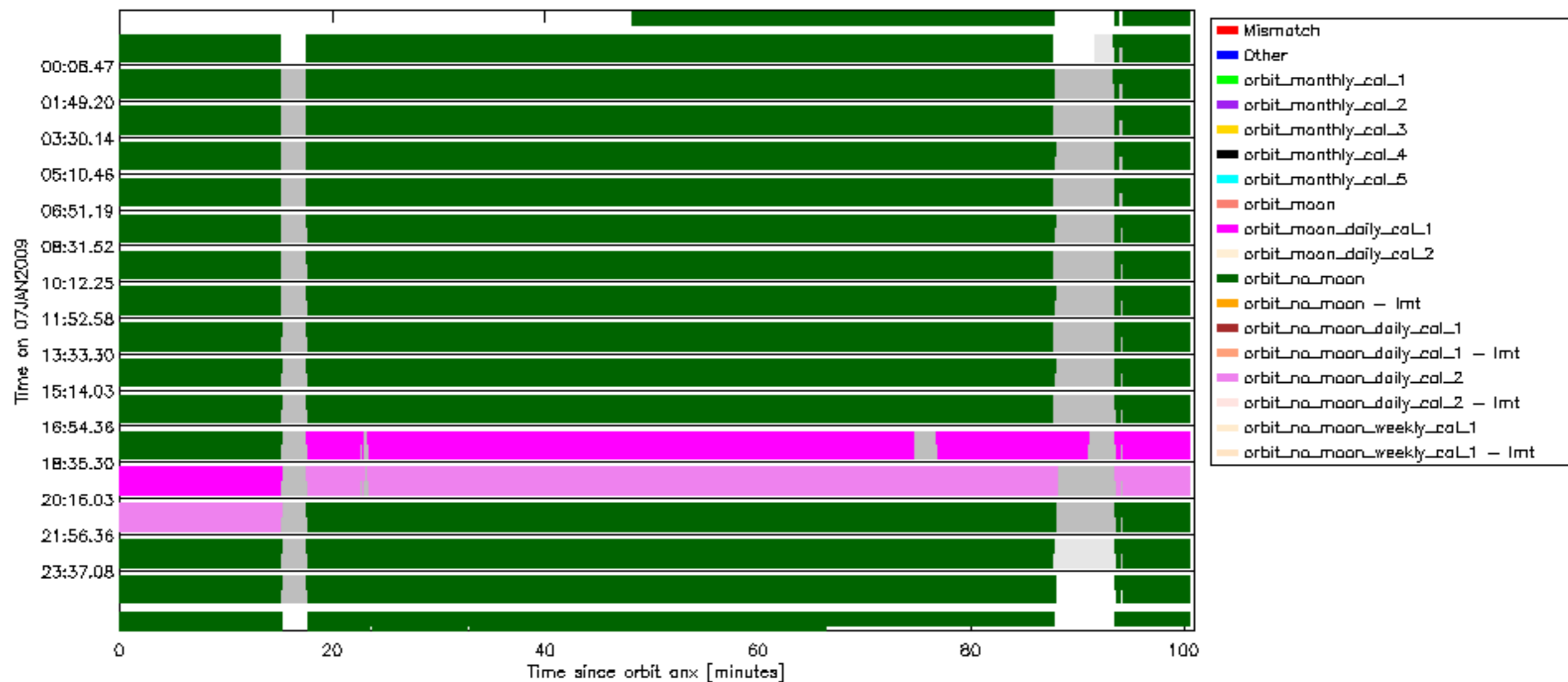


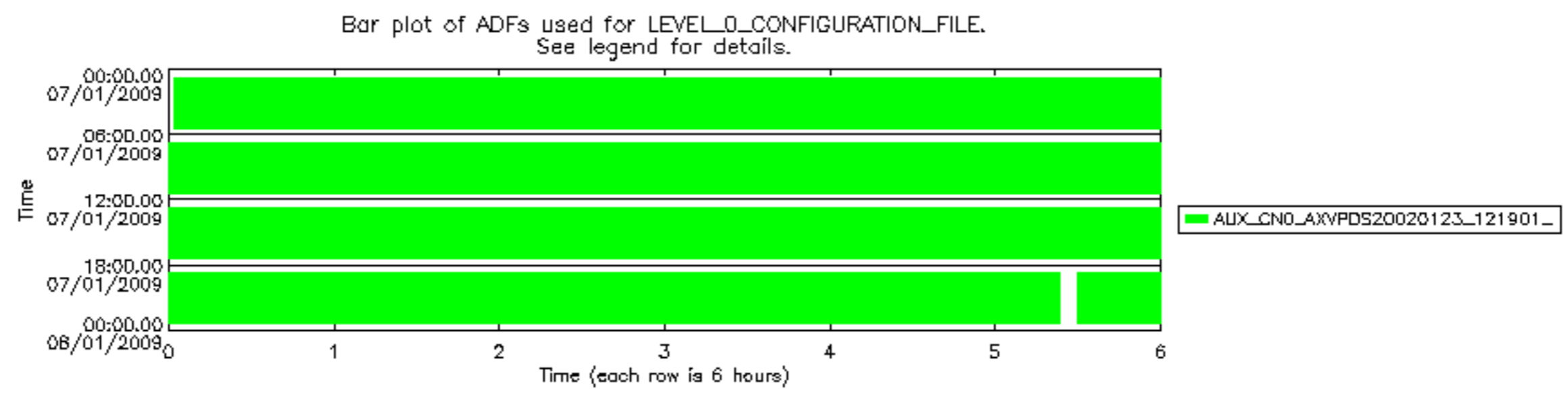






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 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.

