

## 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	11OCT2007 03:39:07
Data source version	KSPT_L0/4302-N
Processing scope for products	07OCT2007 00:00:00 to 08OCT2007 00:00:00
Start time of first product within scope	06OCT2007 23:50:08
Stop time of last product within scope	08OCT2007 01:00:42
Total number of level 0 products	16
Number of level 0 products with errors	0

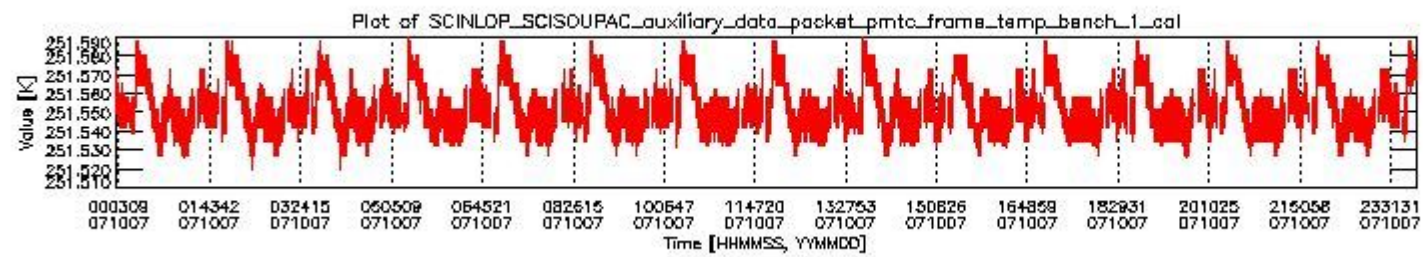
### 0.1.2 Summary per product

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

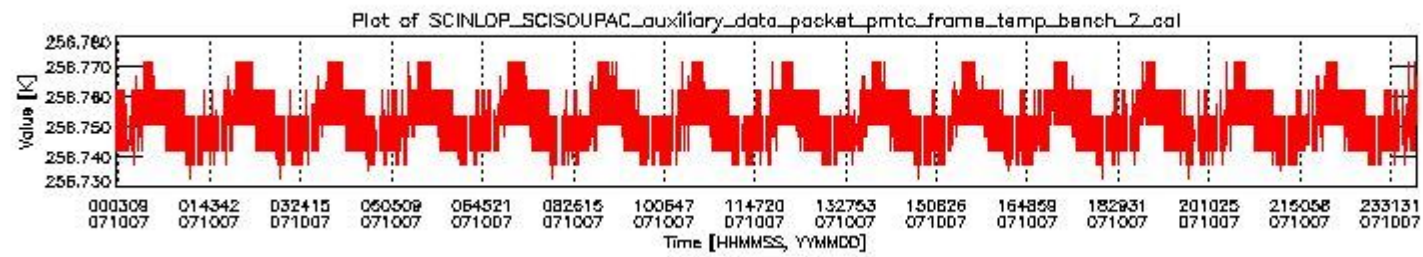
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071006_235008_000056732062_00173_29285_5320.N1	06OCT2007 23:50:08	07OCT2007 01:24:42	0	0	0	0	0
1	SCI_NL__OPNPDE20071007_013045_000043102062_00174_29286_5321.N1	07OCT2007 01:30:45	07OCT2007 02:42:35	0	0	0	0	0
2	SCI_NL__OPNPDE20071007_024235_000060922062_00175_29287_5322.N1	07OCT2007 02:42:35	07OCT2007 04:24:07	0	0	0	0	0
3	SCI_NL__OPNPDE20071007_042407_000061052062_00176_29288_5323.N1	07OCT2007 04:24:07	07OCT2007 06:05:52	0	0	0	0	0
4	SCI_NL__OPNPDK20071007_060456_000041572062_00177_29289_6278.N1	07OCT2007 06:04:56	07OCT2007 07:14:13	0	0	0	0	0
5	SCI_NL__OPNPDK20071007_071209_000062292062_00178_29290_6279.N1	07OCT2007 07:12:09	07OCT2007 08:55:58	0	0	0	0	0
6	SCI_NL__OPNPDK20071007_085503_000059682062_00179_29291_6280.N1	07OCT2007 08:55:03	07OCT2007 10:34:30	0	0	0	0	0
7	SCI_NL__OPNPDK20071007_103322_000059252062_00180_29292_6281.N1	07OCT2007 10:33:22	07OCT2007 12:12:06	0	0	0	0	0
8	SCI_NL__OPNPDK20071007_121002_000060922062_00181_29293_6282.N1	07OCT2007 12:10:02	07OCT2007 13:51:34	0	0	0	0	0
9	SCI_NL__OPNPDK20071007_134930_000059812062_00182_29294_6283.N1	07OCT2007 13:49:30	07OCT2007 15:29:11	0	0	0	0	0
10	SCI_NL__OPNPDK20071007_152719_000058992062_00183_29295_6284.N1	07OCT2007 15:27:19	07OCT2007 17:05:37	0	0	0	0	0
11	SCI_NL__OPNPDK20071007_170537_000060372062_00184_29296_6285.N1	07OCT2007 17:05:37	07OCT2007 18:46:14	0	0	0	0	0
12	SCI_NL__OPNPDK20071007_184517_000059812062_00185_29297_6286.N1	07OCT2007 18:45:17	07OCT2007 20:24:58	0	0	0	0	0
13	SCI_NL__OPNPDE20071007_202402_000040782062_00186_29298_5324.N1	07OCT2007 20:24:02	07OCT2007 21:31:59	0	0	0	0	0
14	SCI_NL__OPNPDE20071007_213802_000056862062_00186_29298_5325.N1	07OCT2007 21:38:02	07OCT2007 23:12:48	0	0	0	0	0
15	SCI_NL__OPNPDE20071007_231838_000061242062_00187_29299_5326.N1	07OCT2007 23:18:38	08OCT2007 01:00:42	0	0	0	0	0

## 0.2 Product Quality Indicators

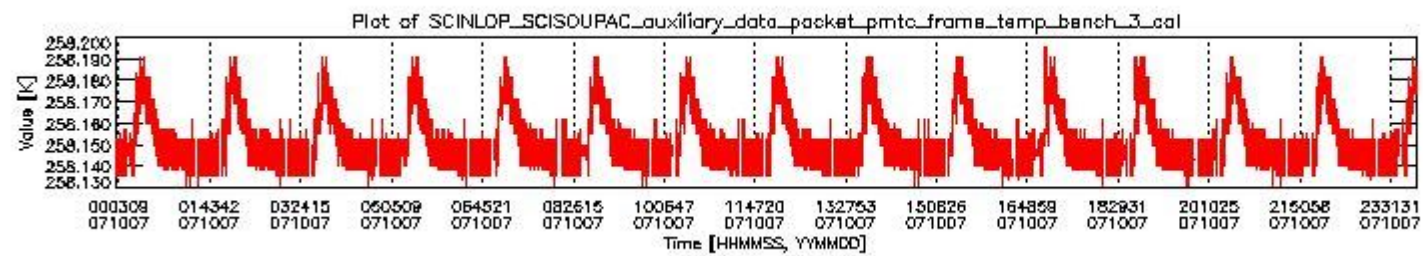
This section shows information about product quality, currently temperatures.



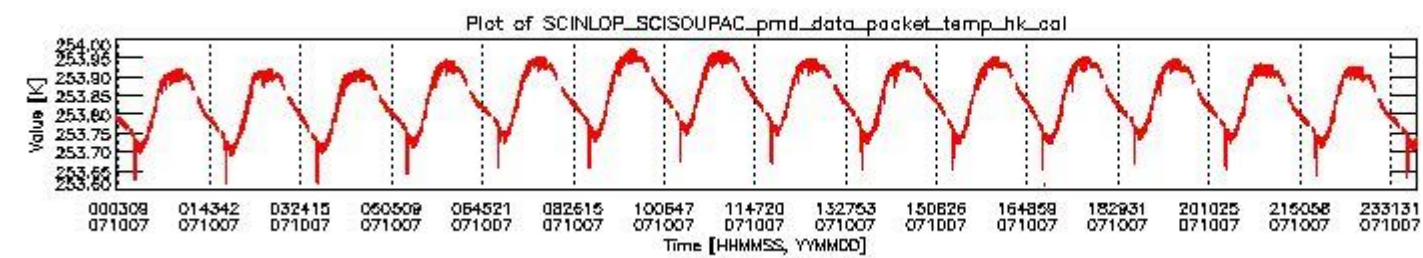
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071007\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071007\_1.PNG

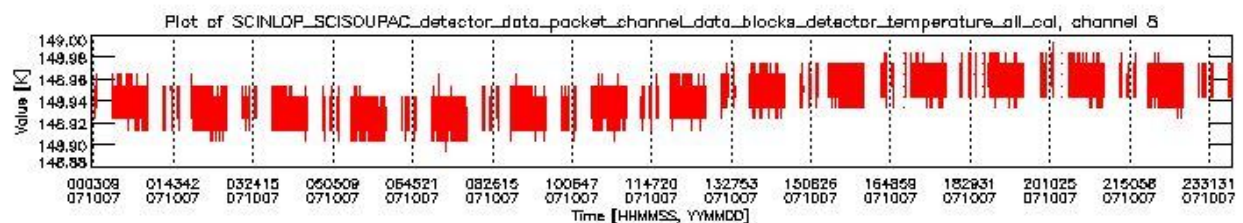
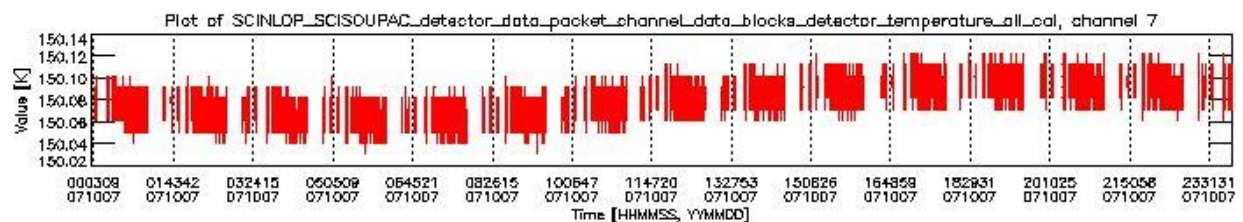
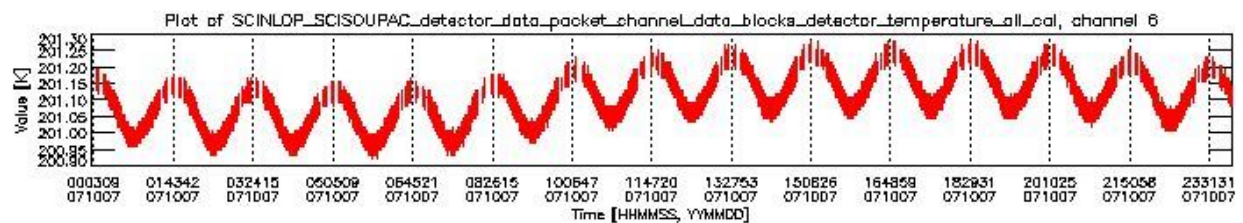
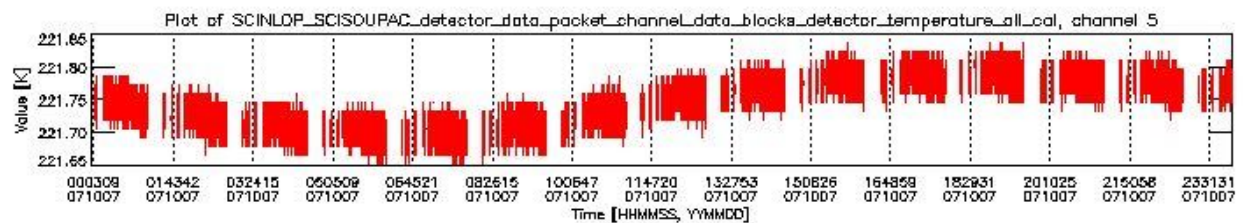
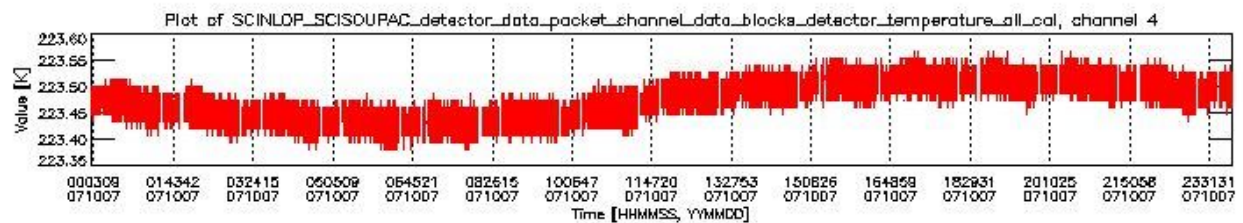
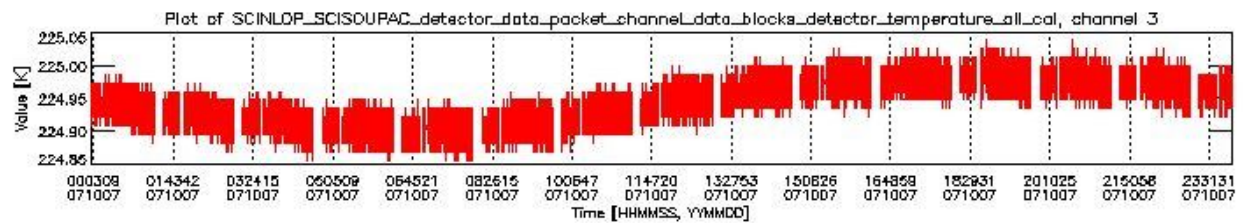
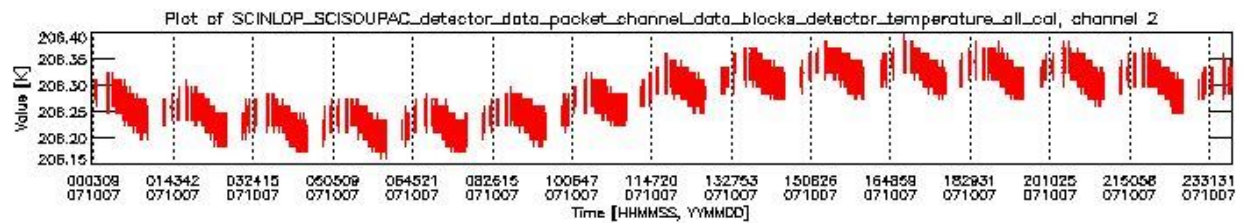
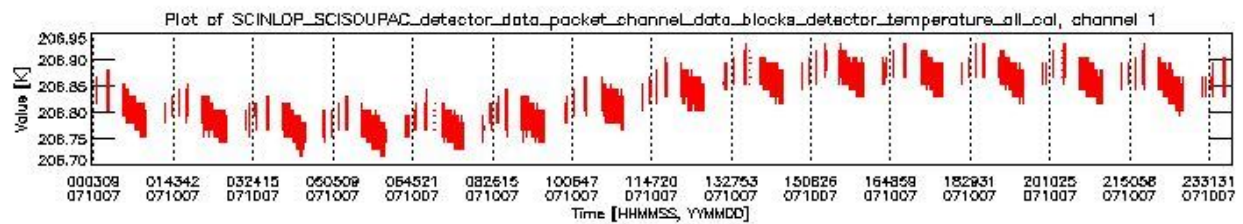


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071007\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071007\_3.PNG



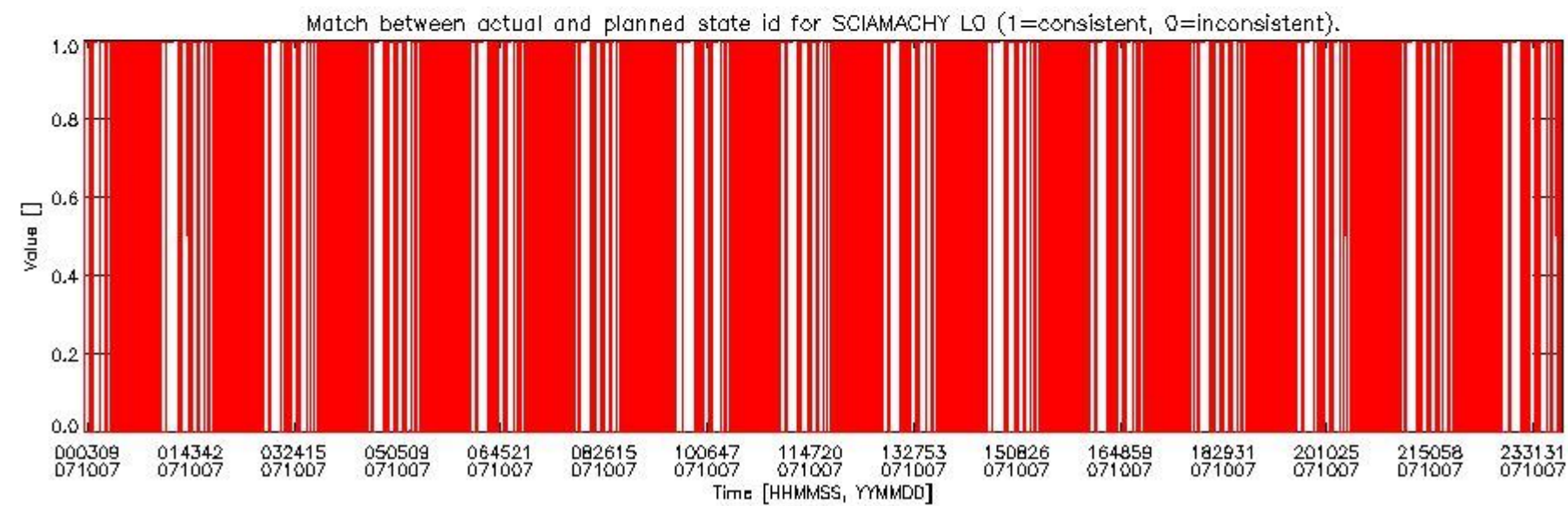
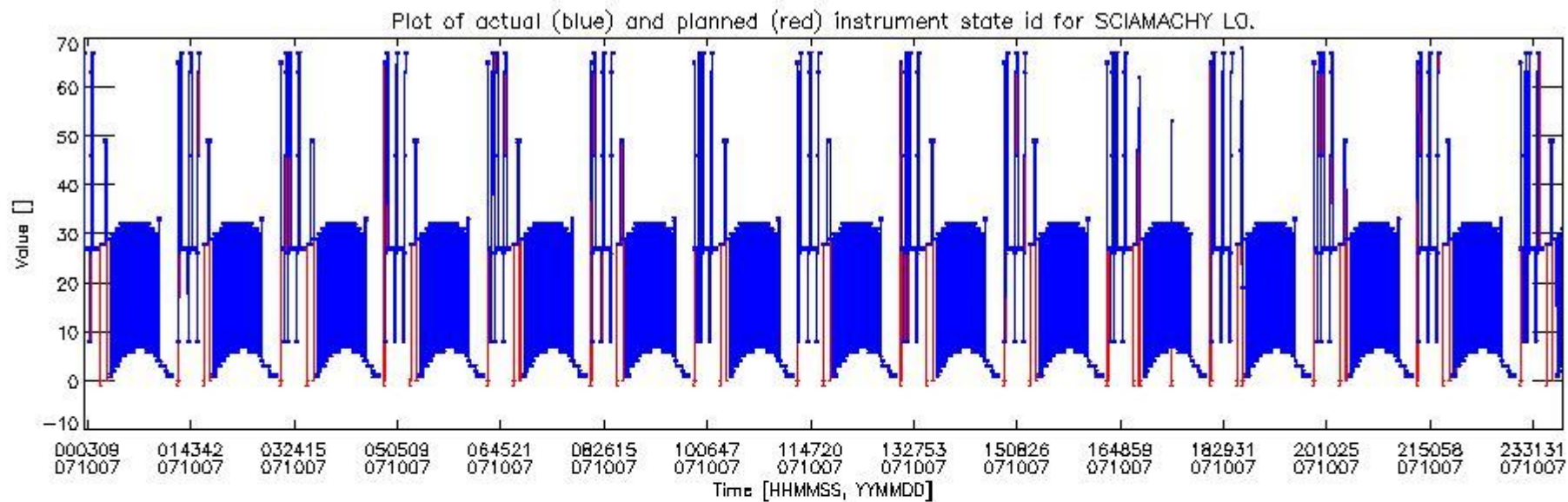


### 0.3 State monitoring

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: **31501**

#	Actual time	Actual value	Planned time	Planned value
0	07OCT2007 00:00:00.304484	27	07OCT2007 00:00:00.304484	67
1	07OCT2007 00:00:01.304479	27	07OCT2007 00:00:01.304479	67
2	07OCT2007 00:00:02.241951	27	07OCT2007 00:00:02.241951	67
3	07OCT2007 00:00:02.991977	27	07OCT2007 00:00:02.991977	67
4	07OCT2007 00:00:03.929450	27	07OCT2007 00:00:03.929450	67
5	07OCT2007 00:00:04.679476	27	07OCT2007 00:00:04.679476	67
6	07OCT2007 00:00:05.304457	27	07OCT2007 00:00:05.304457	67
7	07OCT2007 00:00:05.616988	27	07OCT2007 00:00:05.616988	67
8	07OCT2007 00:00:06.366974	27	07OCT2007 00:00:06.366974	67
9	07OCT2007 00:00:07.304487	27	07OCT2007 00:00:07.304487	67
10	07OCT2007 00:05:08.714600	8	07OCT2007 00:05:08.714600	27
11	07OCT2007 00:05:09.839599	8	07OCT2007 00:05:09.839599	27
12	07OCT2007 00:05:10.839593	8	07OCT2007 00:05:10.839593	27
13	07OCT2007 00:05:11.839588	8	07OCT2007 00:05:11.839588	27
14	07OCT2007 00:05:12.839623	8	07OCT2007 00:05:12.839623	27
15	07OCT2007 00:05:13.714613	8	07OCT2007 00:05:13.714613	27
16	07OCT2007 00:05:13.839617	8	07OCT2007 00:05:13.839617	27
17	07OCT2007 00:05:14.839612	8	07OCT2007 00:05:14.839612	27
18	07OCT2007 00:05:52.273205	26	07OCT2007 00:05:52.273205	8
19	07OCT2007 00:05:52.898186	26	07OCT2007 00:05:52.898186	8
	...	...	...	...



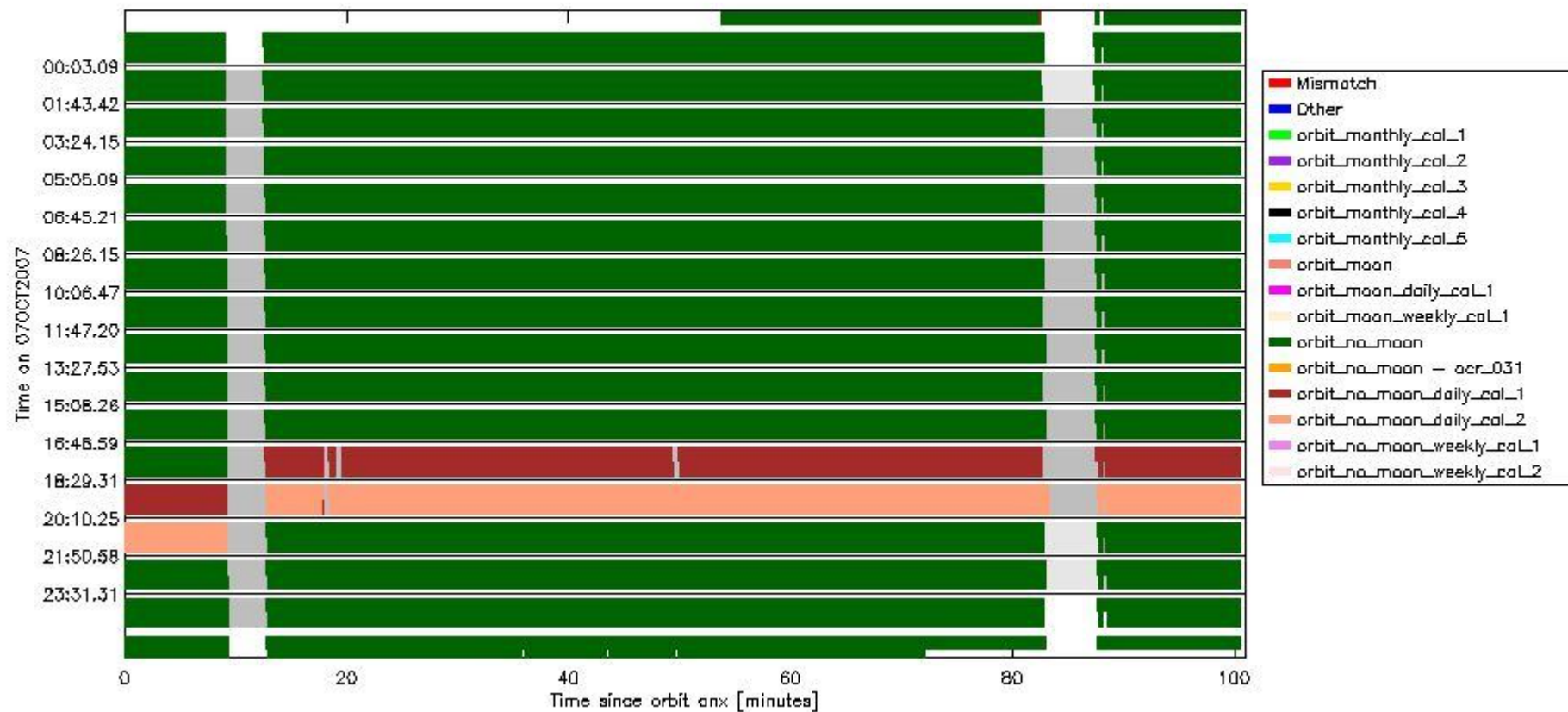
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071007\_5.PNG

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 07OCT2007.  
 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\_20071007\_6.PNG

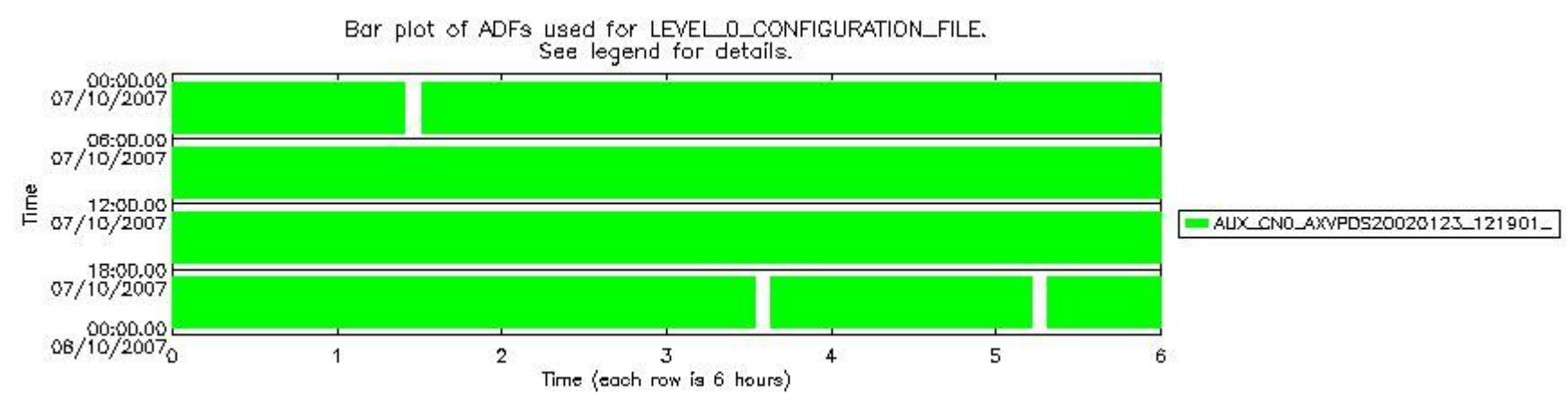
## 0.4 ADF monitoring

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

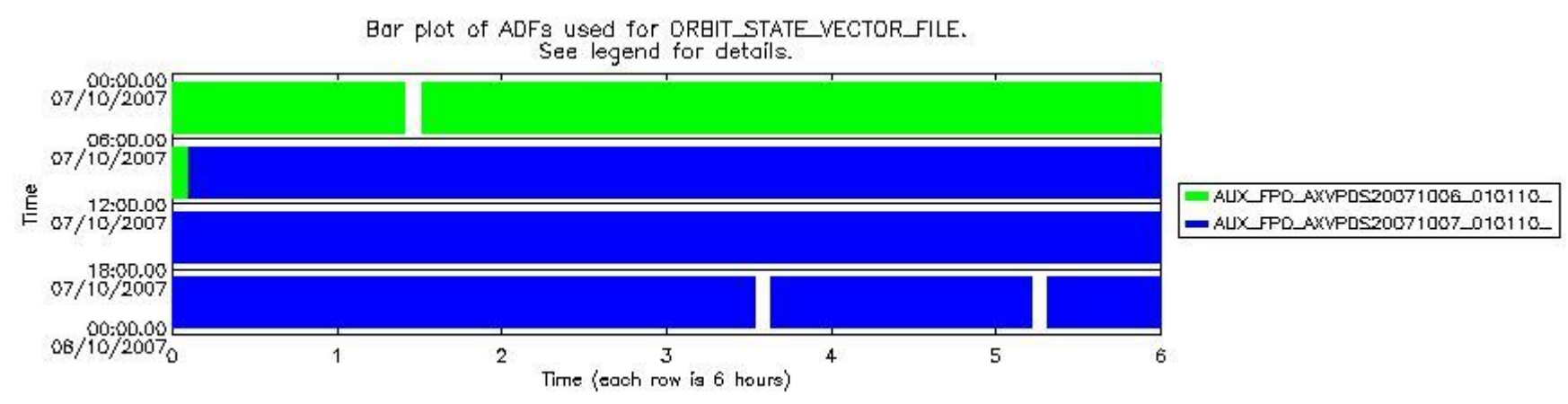
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

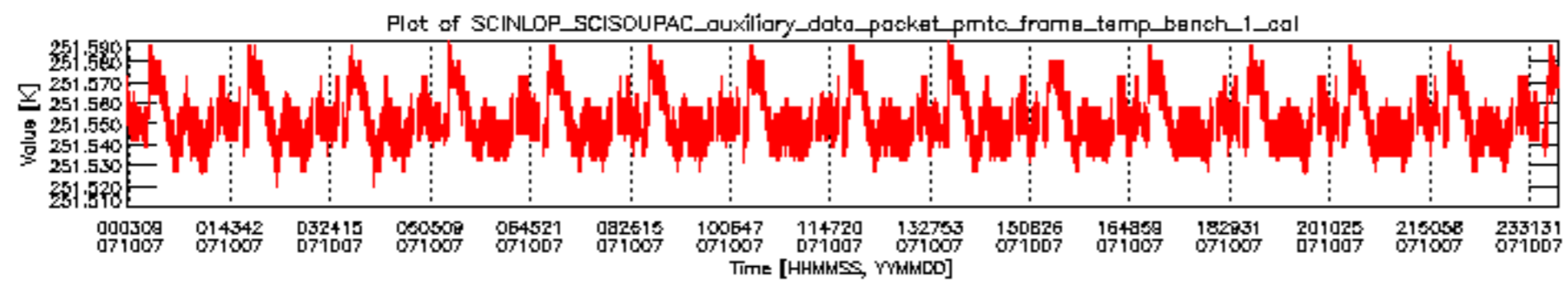
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20071006_010110_20071005_193257_20071015_205911
2	AUX_FPO_AXVPDS20071007_010110_20071006_190120_20071016_202734



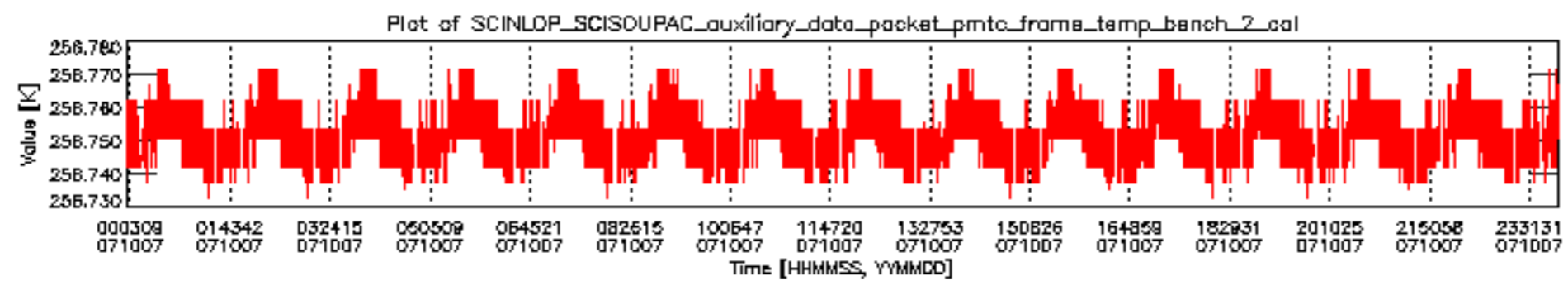
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071007\_7.PNG

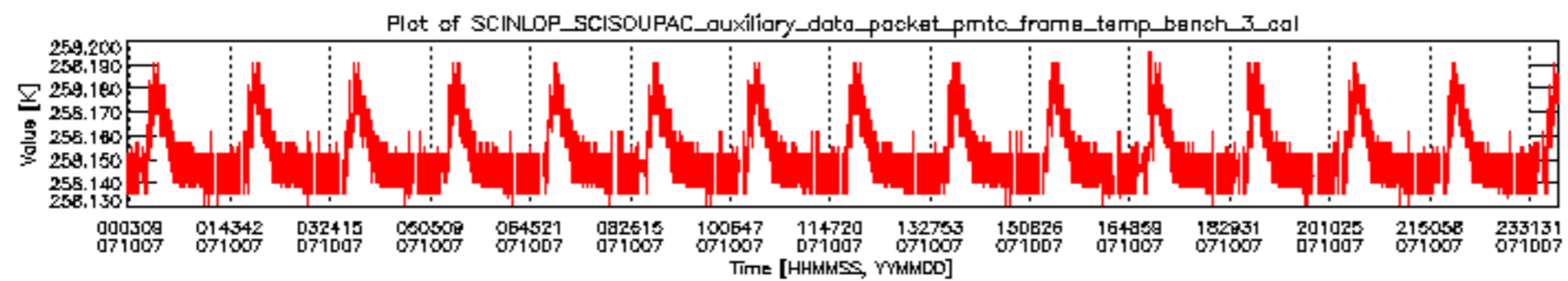


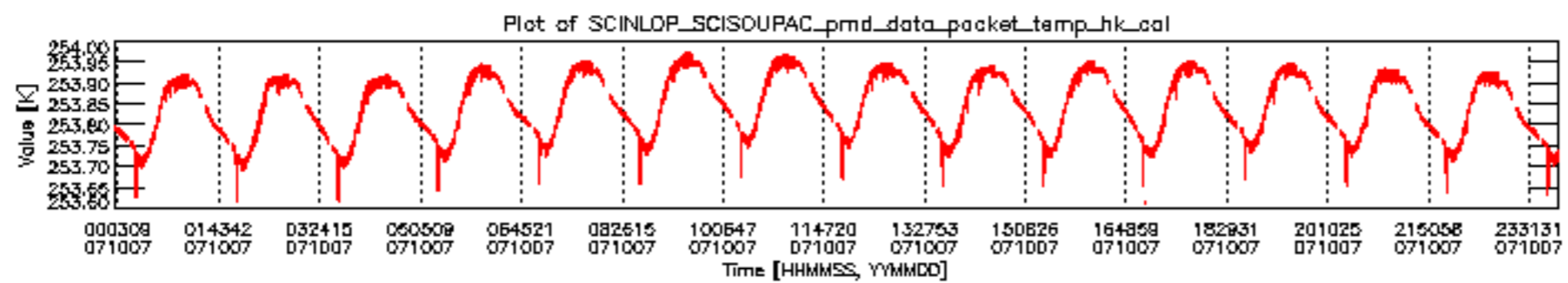
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071007\_8.PNG

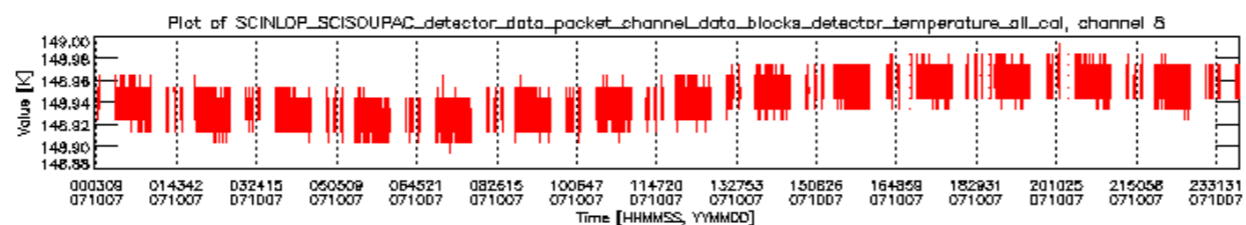
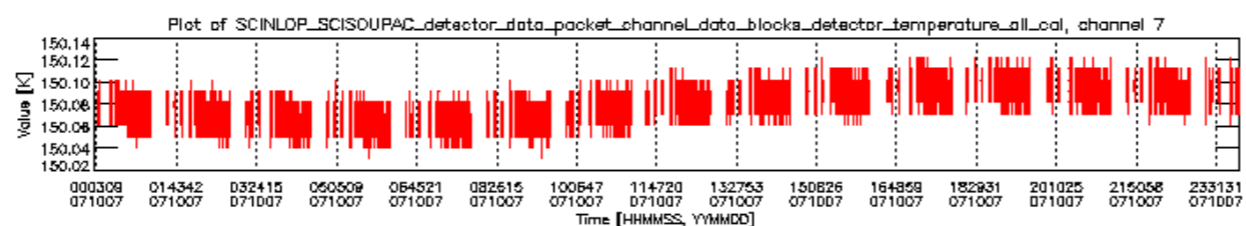
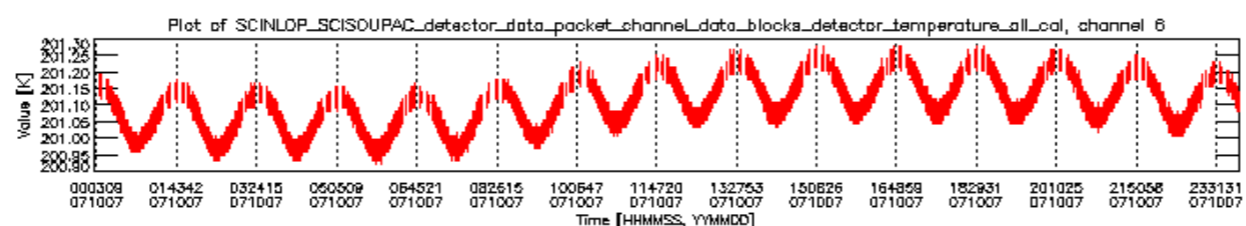
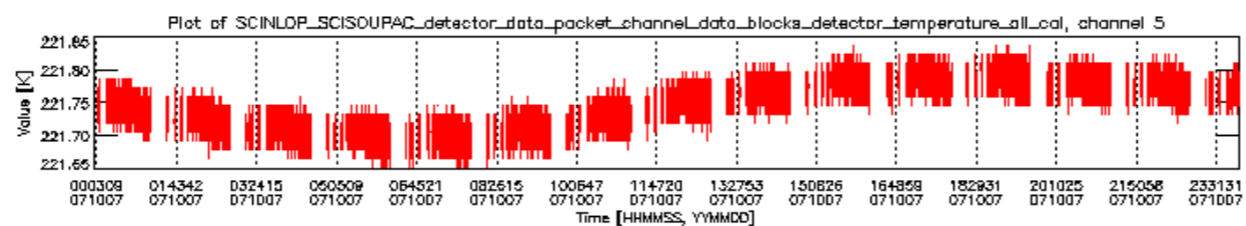
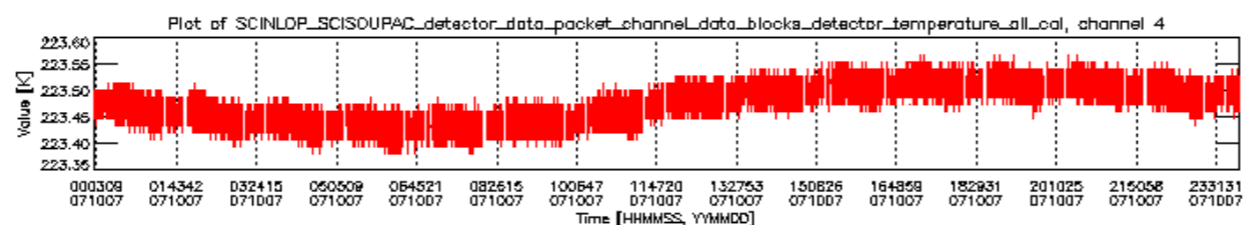
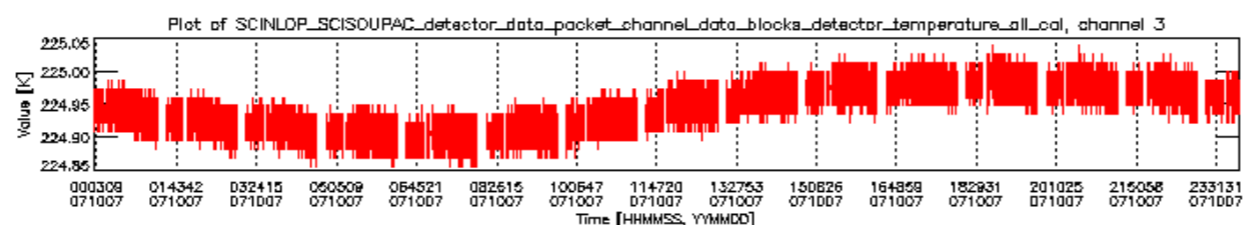
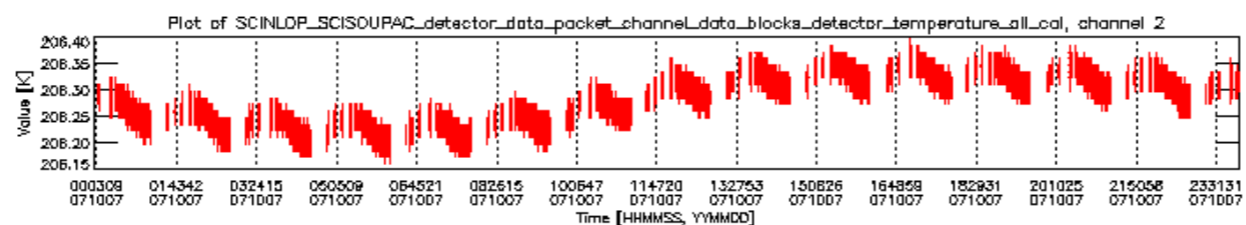
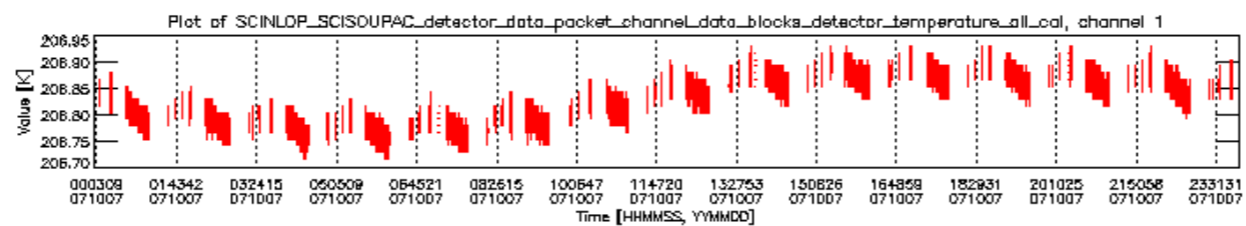




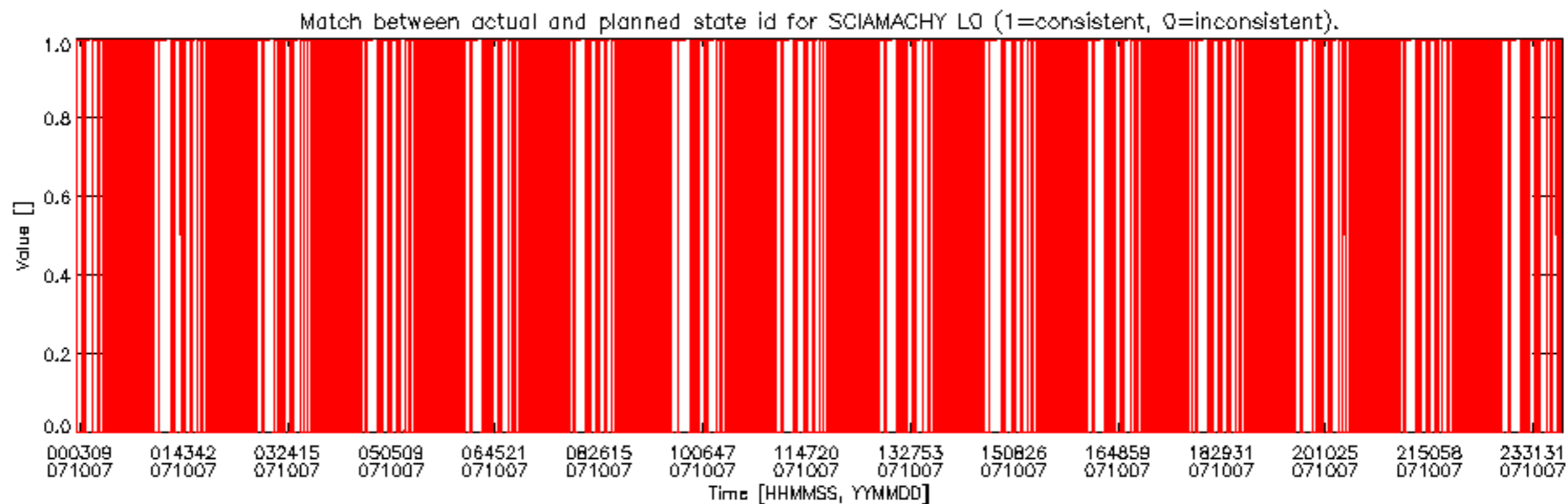
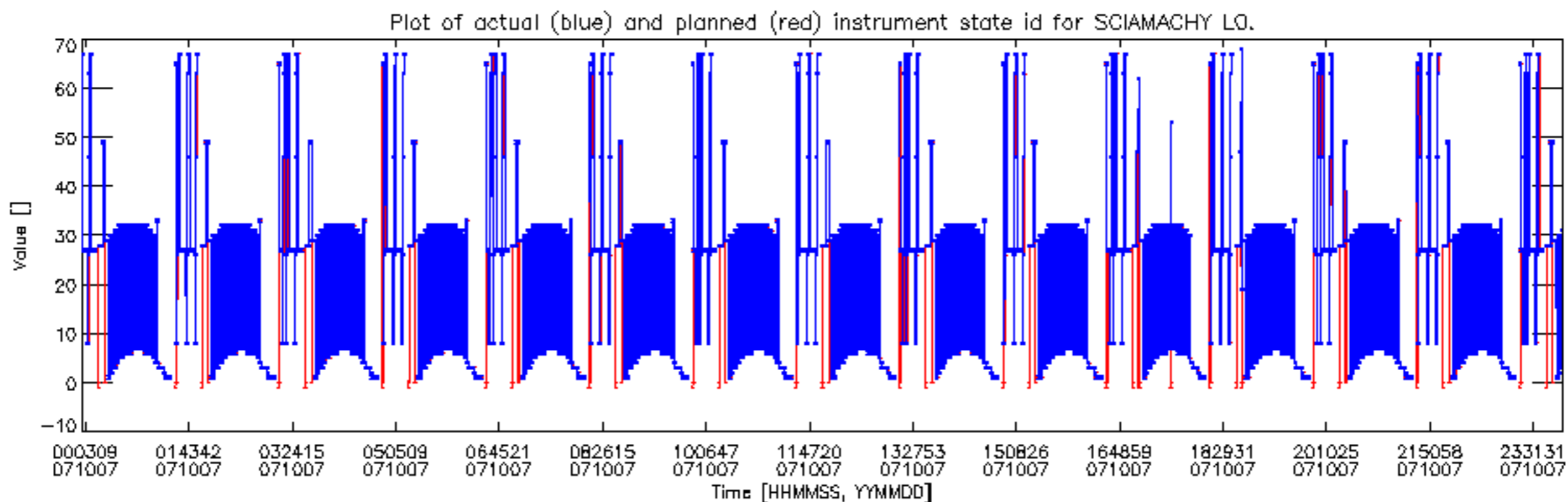




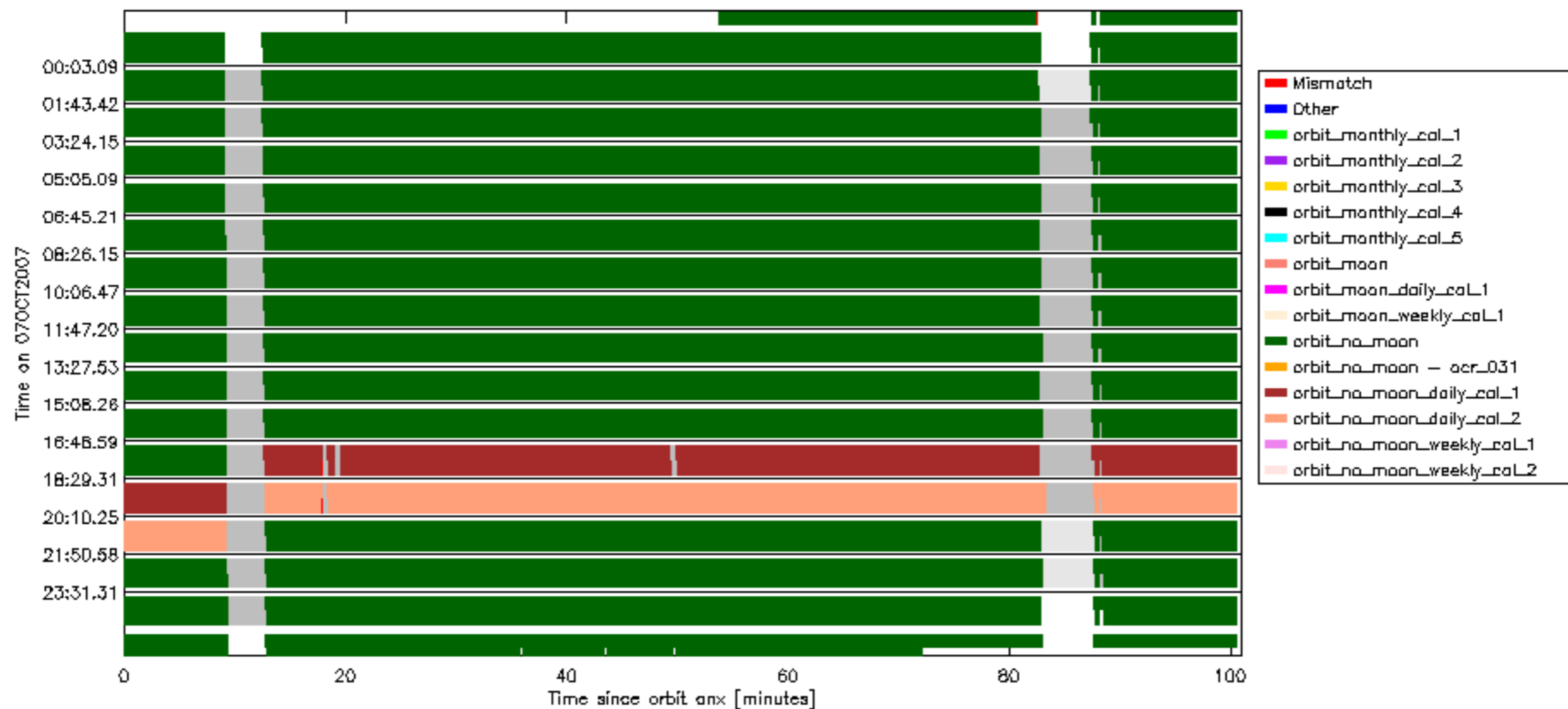


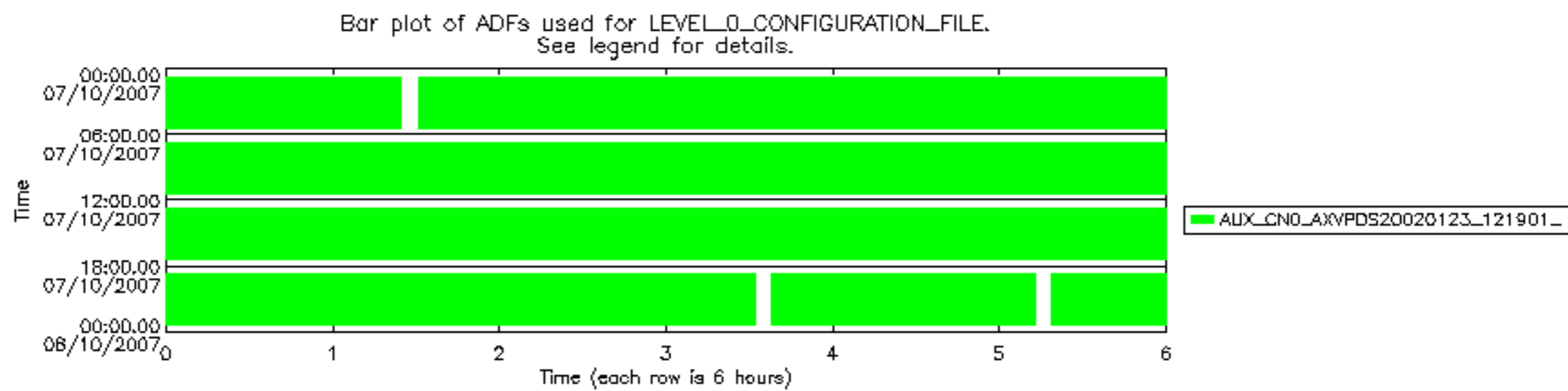




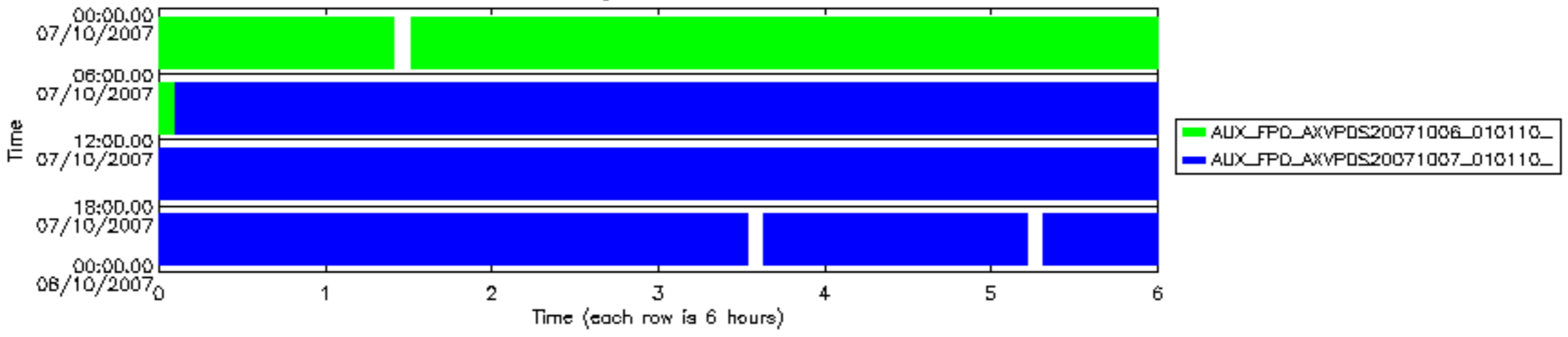


Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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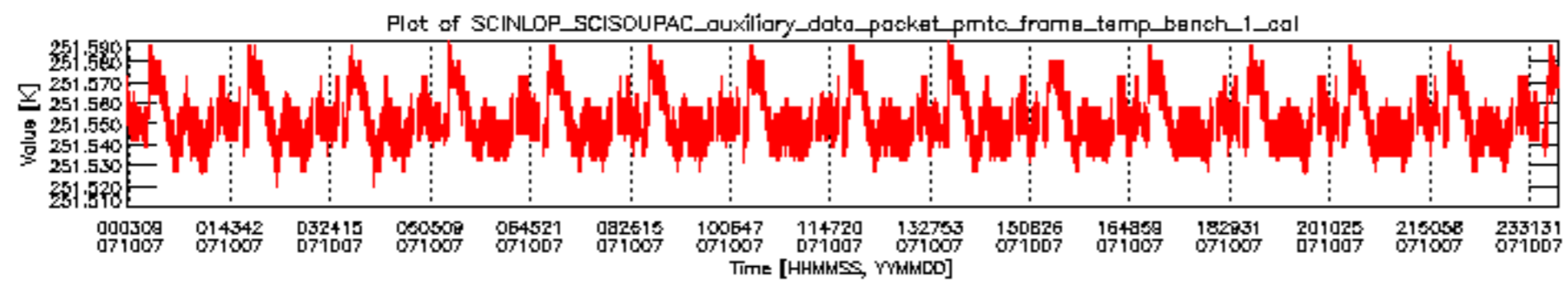


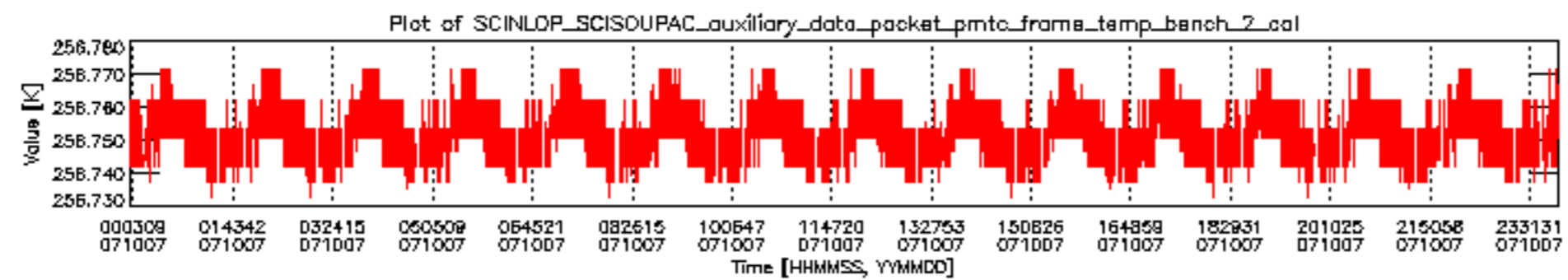


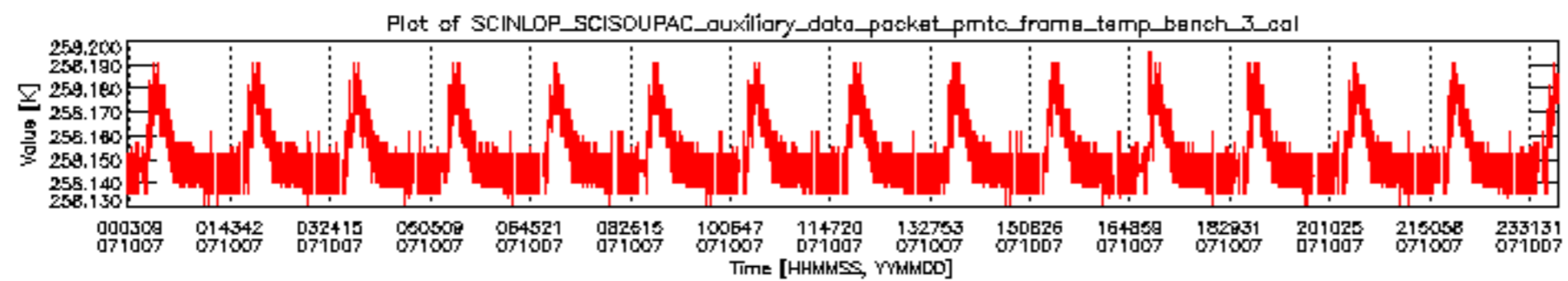
Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

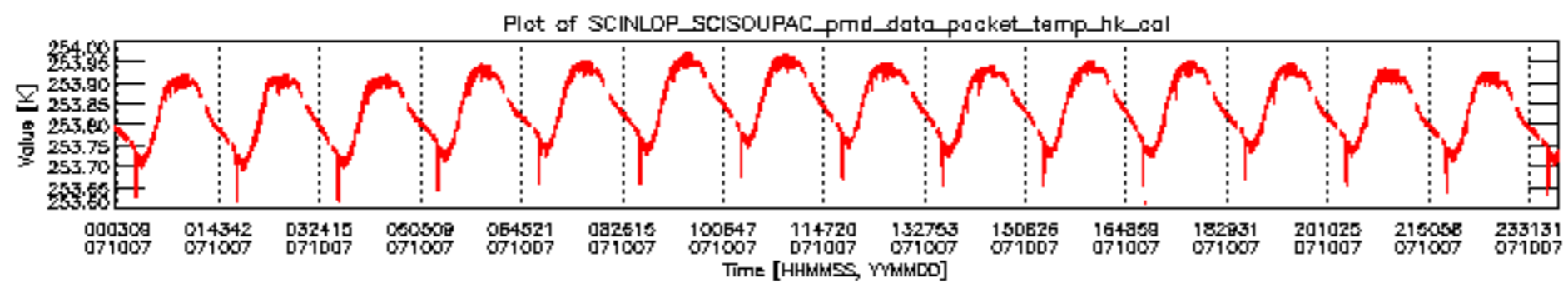




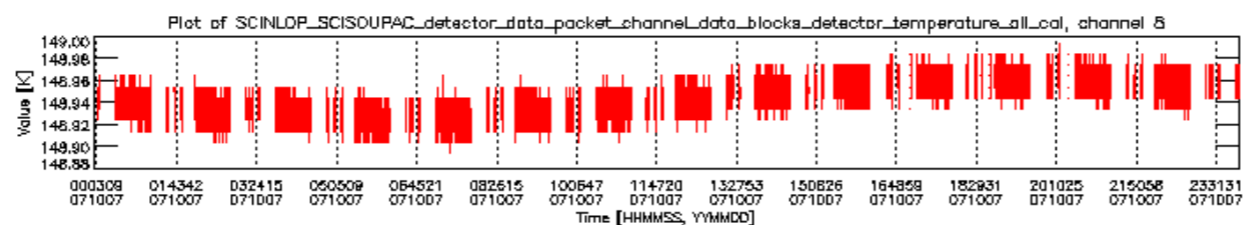
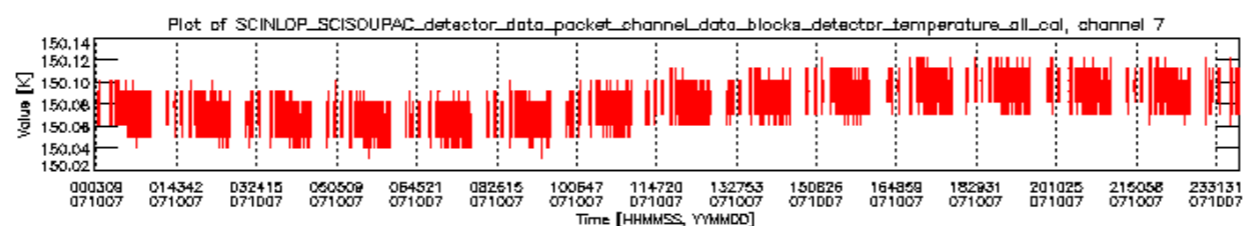
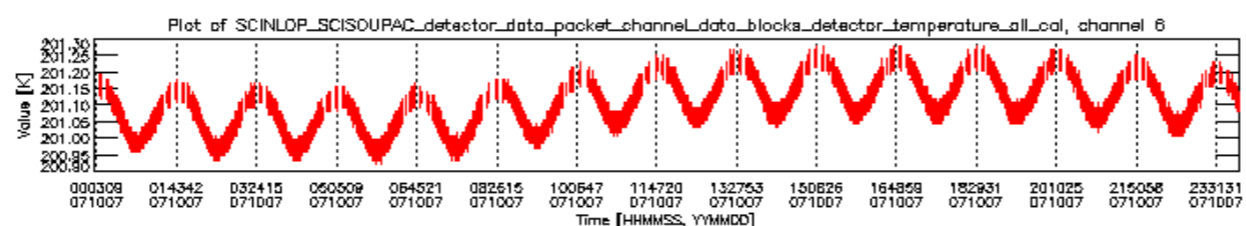
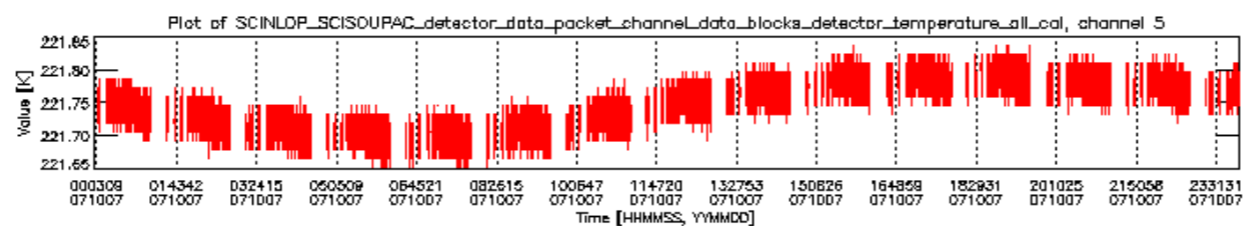
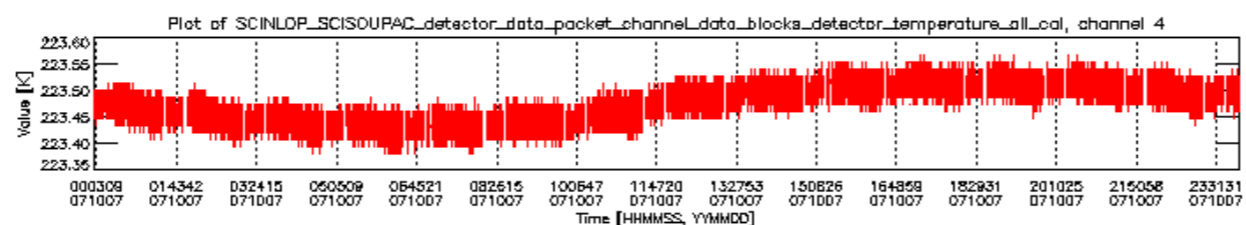
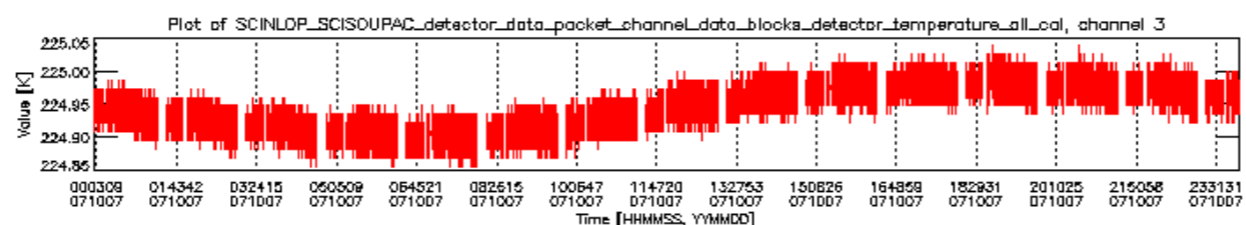
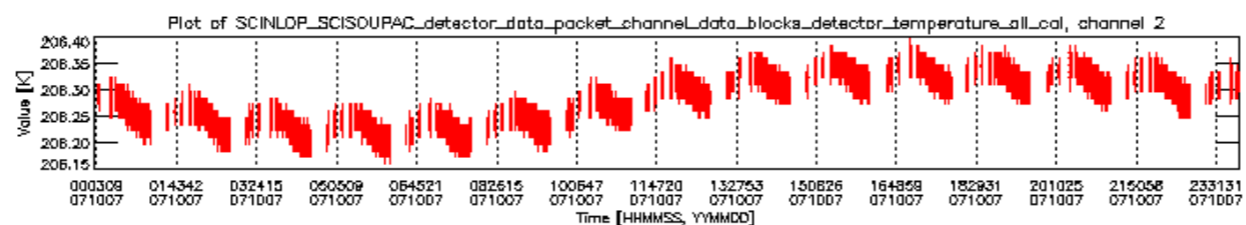
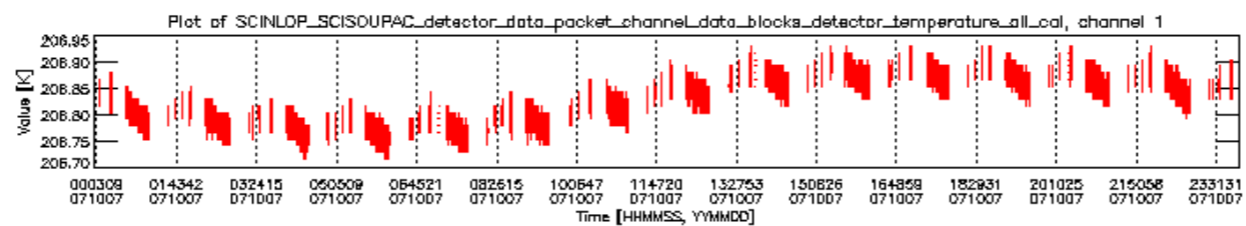


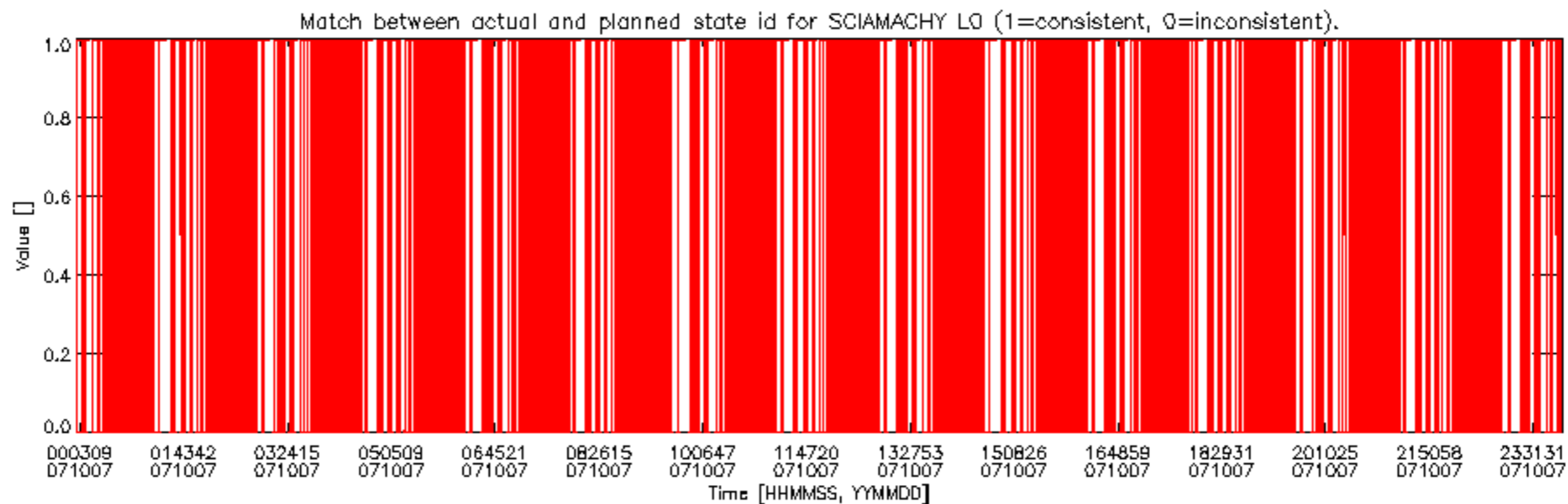
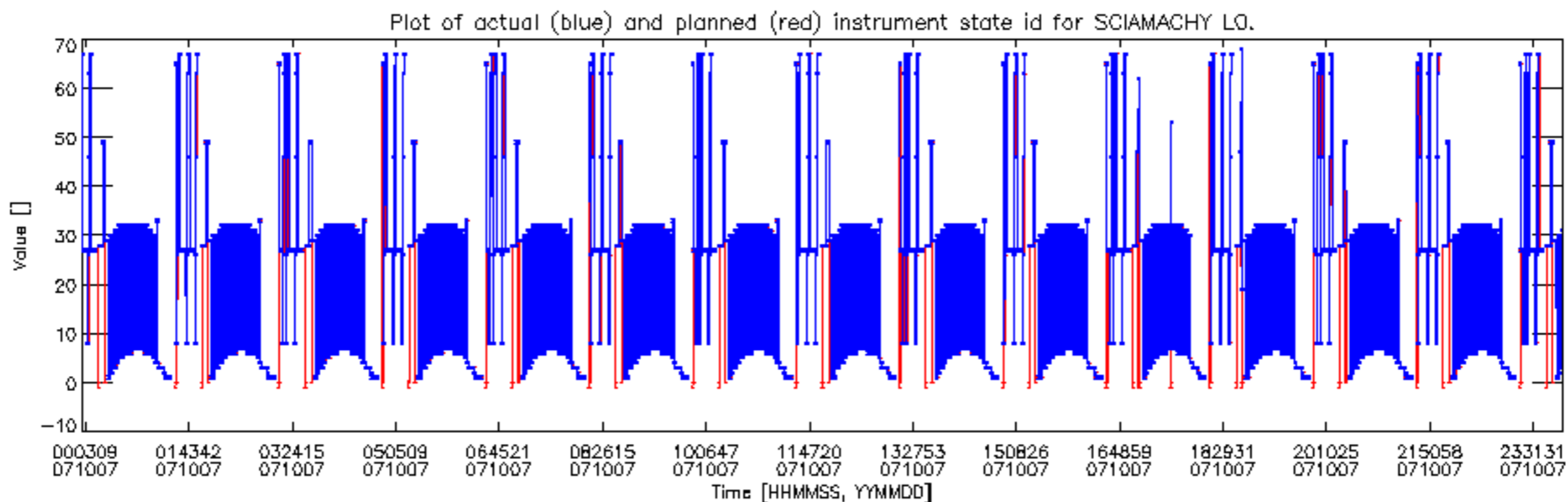




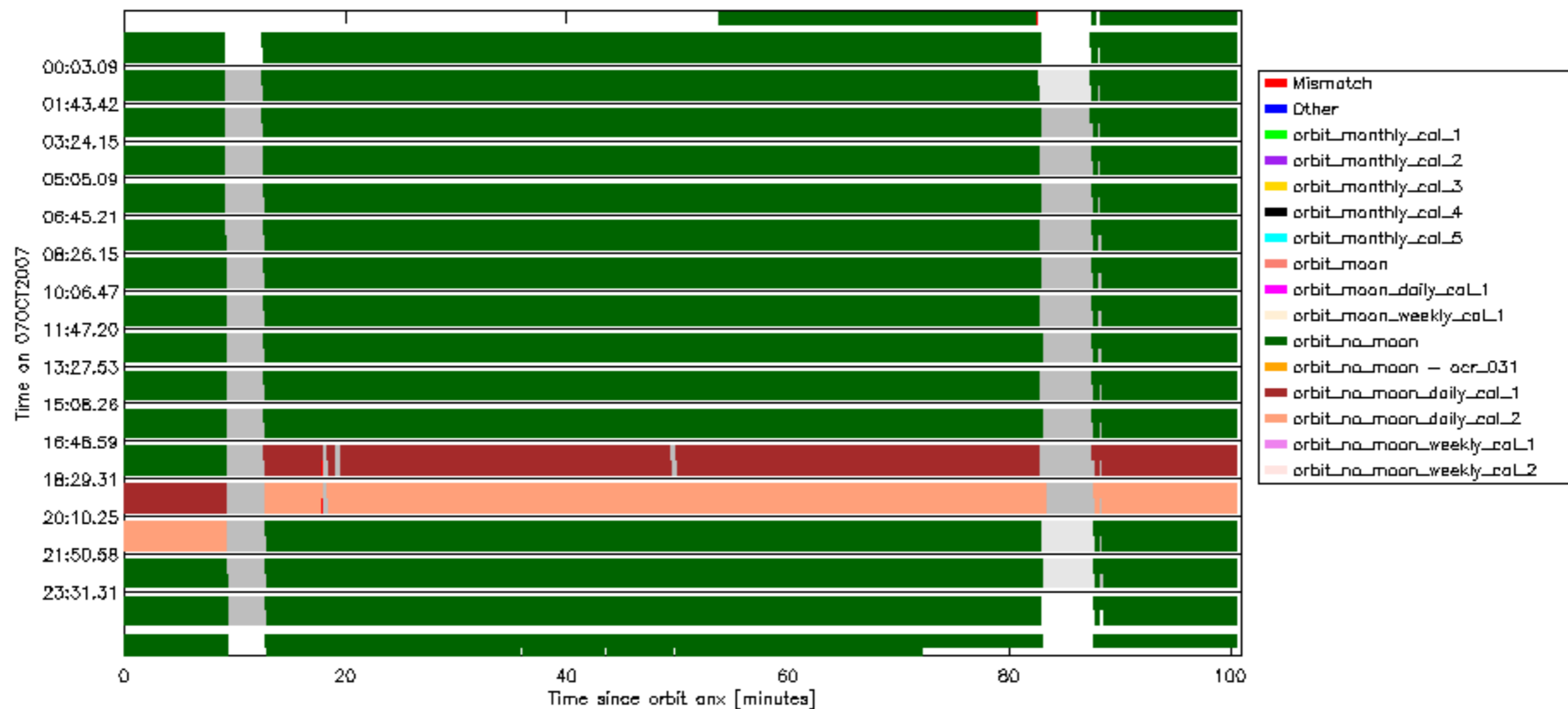


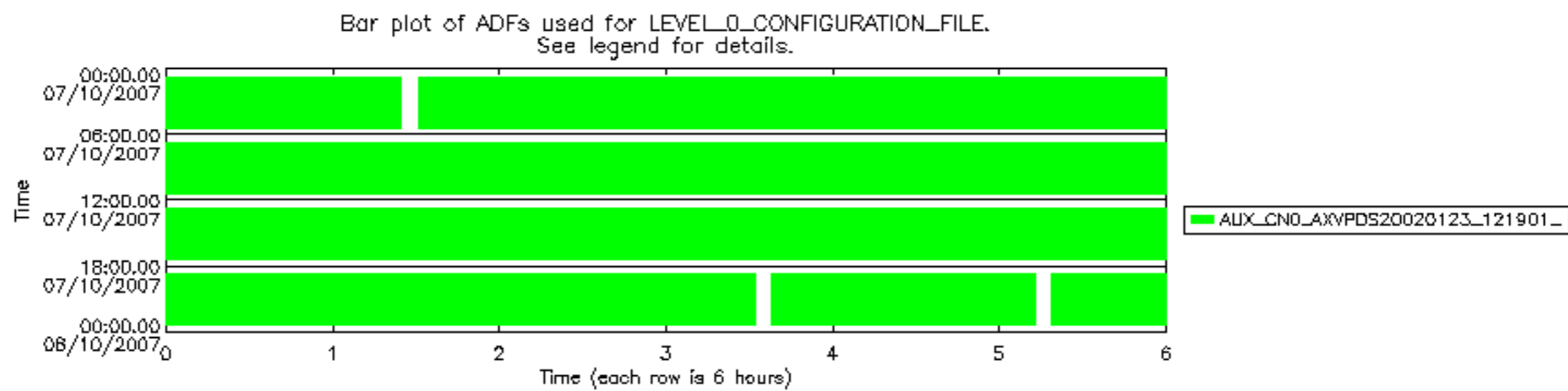






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

