

## 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	31OCT2007 07:28:35
Data source version	KSPT_L0/4302-N
Processing scope for products	27OCT2007 00:00:00 to 28OCT2007 00:00:00
Start time of first product within scope	26OCT2007 23:23:41
Stop time of last product within scope	28OCT2007 00:27:00
Total number of level 0 products	16
Number of level 0 products with errors	0

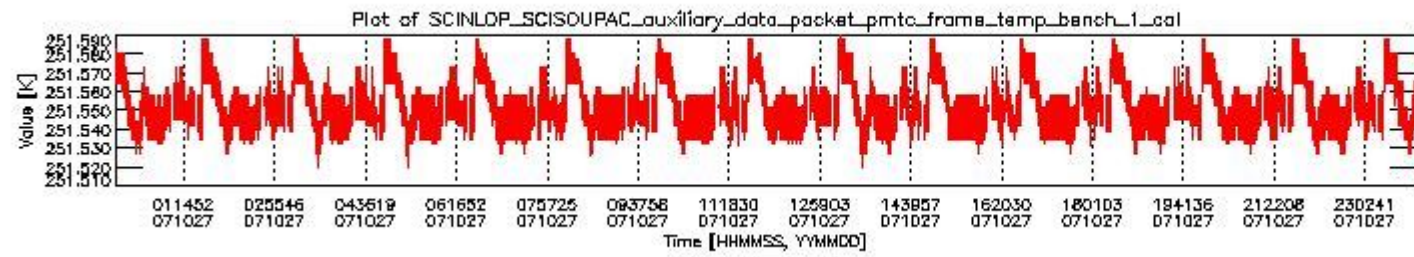
### 0.1.2 Summary per product

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

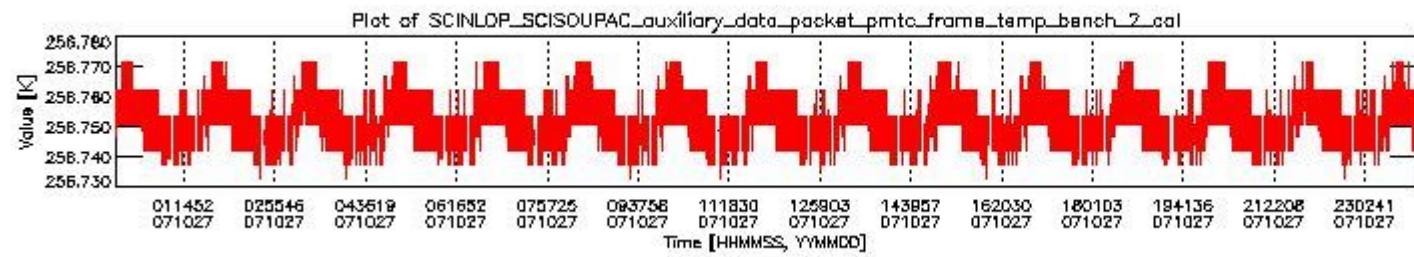
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071026_232341_000057582062_00459_29571_5453.N1	26OCT2007 23:23:41	27OCT2007 00:59:39	0	0	0	0	0
1	SCI_NL__OPNPDE20071027_010417_000043132062_00460_29572_5454.N1	27OCT2007 01:04:17	27OCT2007 02:16:10	0	0	0	0	0
2	SCI_NL__OPNPDE20071027_021610_000060362062_00461_29573_5455.N1	27OCT2007 02:16:10	27OCT2007 03:56:47	0	0	0	0	0
3	SCI_NL__OPNPDE20071027_035647_000060362062_00462_29574_5456.N1	27OCT2007 03:56:47	27OCT2007 05:37:23	0	0	0	0	0
4	SCI_NL__OPNPDE20071027_053615_000061052062_00463_29575_5457.N1	27OCT2007 05:36:15	27OCT2007 07:18:00	0	0	0	0	0
5	SCI_NL__OPNPDK20071027_071800_000040452062_00464_29576_6464.N1	27OCT2007 07:18:00	27OCT2007 08:25:25	0	0	0	0	0
6	SCI_NL__OPNPDK20071027_082321_000061612062_00465_29577_6465.N1	27OCT2007 08:23:21	27OCT2007 10:06:01	0	0	0	0	0
7	SCI_NL__OPNPDK20071027_100506_000060242062_00466_29578_6466.N1	27OCT2007 10:05:06	27OCT2007 11:45:29	0	0	0	0	0
8	SCI_NL__OPNPDK20071027_114433_000060362062_00467_29579_6467.N1	27OCT2007 11:44:33	27OCT2007 13:25:10	0	0	0	0	0
9	SCI_NL__OPNPDK20071027_132414_000058562062_00468_29580_6468.N1	27OCT2007 13:24:14	27OCT2007 15:01:50	0	0	0	0	0
10	SCI_NL__OPNPDK20071027_145836_000060362062_00469_29581_6469.N1	27OCT2007 14:58:36	27OCT2007 16:39:13	0	0	0	0	0
11	SCI_NL__OPNPDK20071027_163913_000059802062_00470_29582_6470.N1	27OCT2007 16:39:13	27OCT2007 18:18:52	0	0	0	0	0
12	SCI_NL__OPNPDK20071027_181700_000060922062_00471_29583_6471.N1	27OCT2007 18:17:00	27OCT2007 19:58:33	0	0	0	0	0
13	SCI_NL__OPNPDE20071027_195641_000041662062_00472_29584_5458.N1	27OCT2007 19:56:41	27OCT2007 21:06:07	0	0	0	0	0
14	SCI_NL__OPNPDE20071027_210458_000064752062_00472_29584_5459.N1	27OCT2007 21:04:58	27OCT2007 22:52:54	0	0	0	0	0
15	SCI_NL__OPNPDE20071027_225210_000056902062_00473_29585_5460.N1	27OCT2007 22:52:10	28OCT2007 00:27:00	0	0	0	0	0

## 0.2 Product Quality Indicators

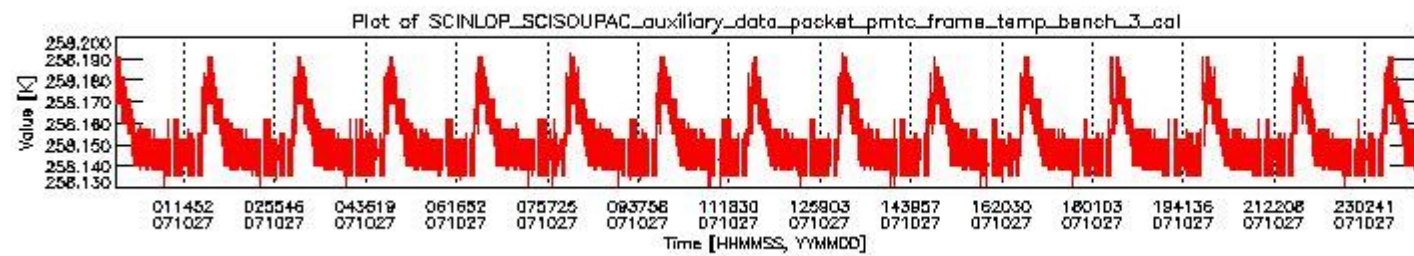
This section shows information about product quality, currently temperatures.



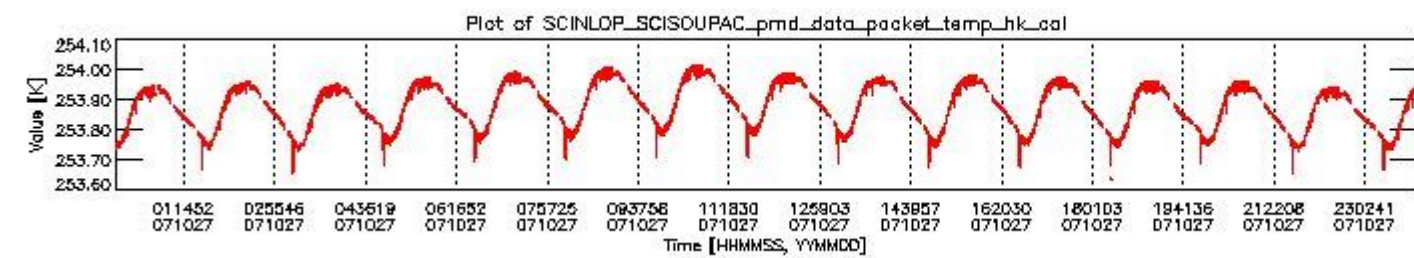
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071027\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071027\_1.PNG

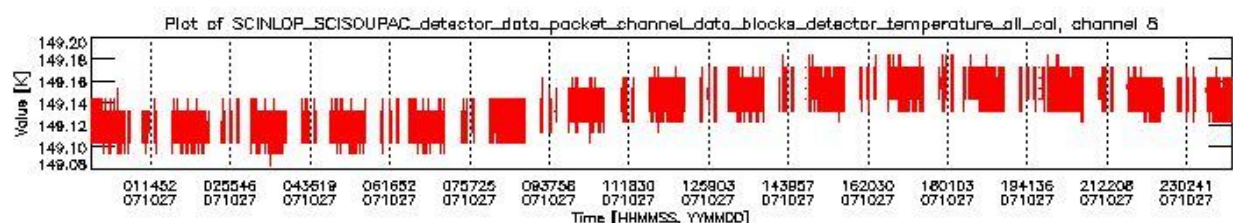
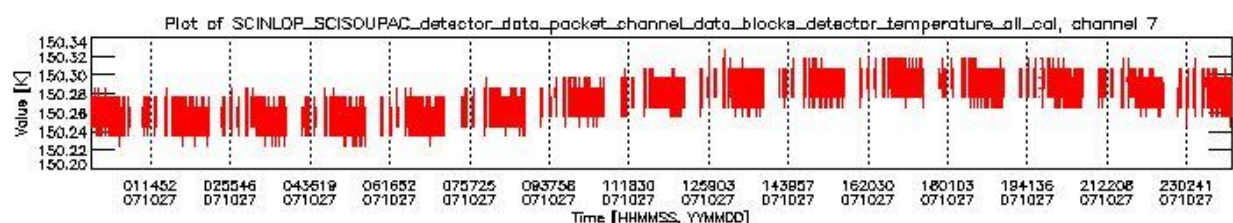
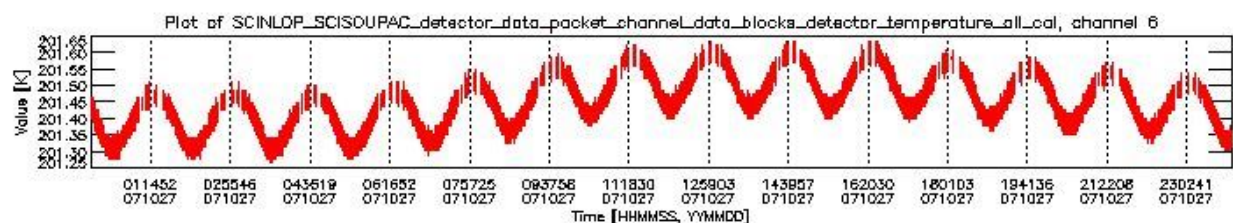
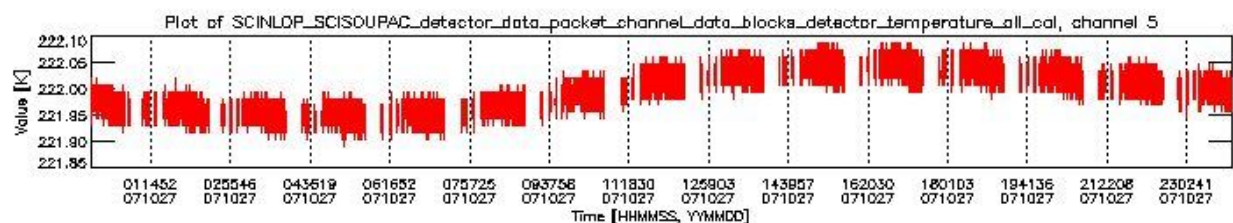
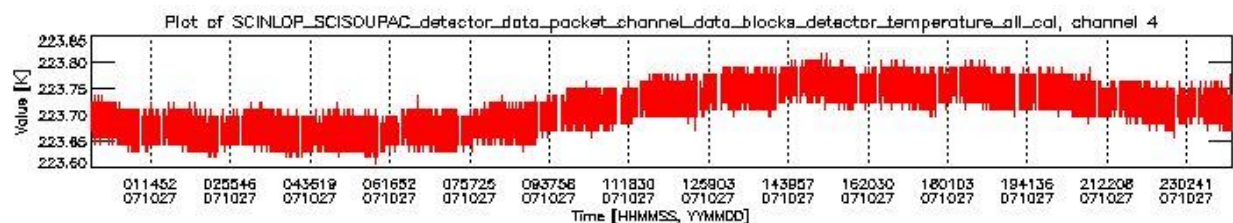
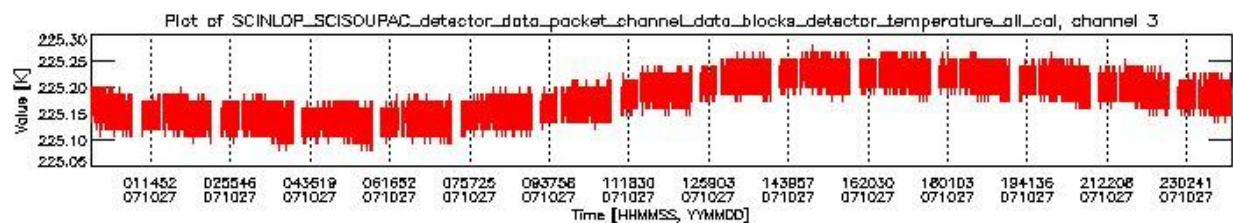
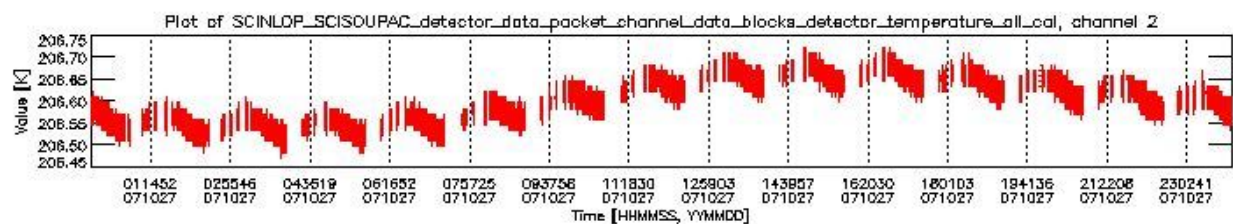
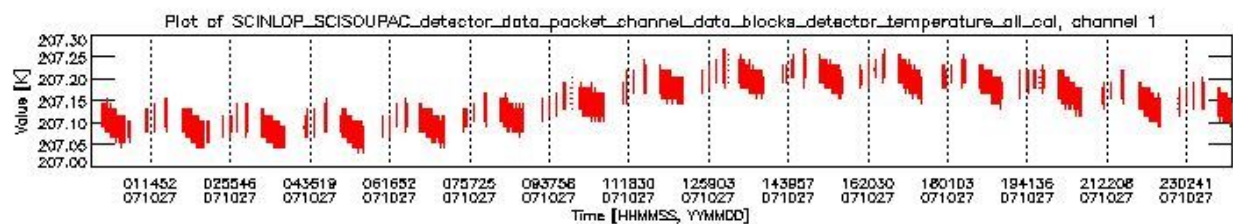


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071027\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071027\_3.PNG



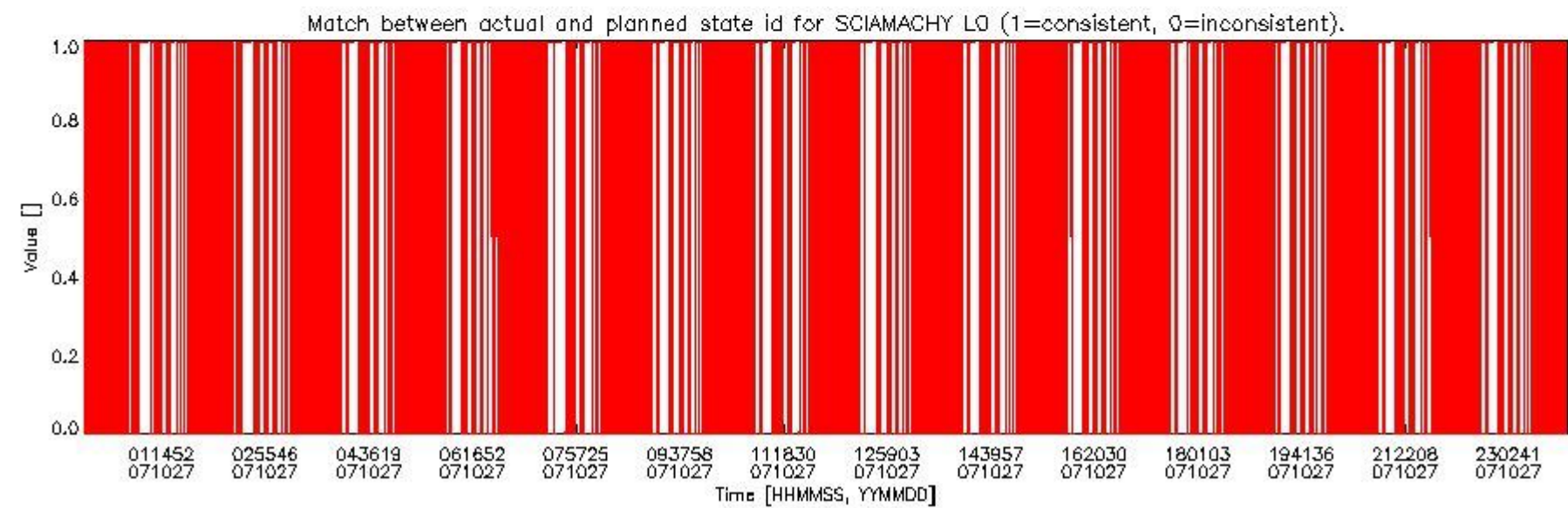
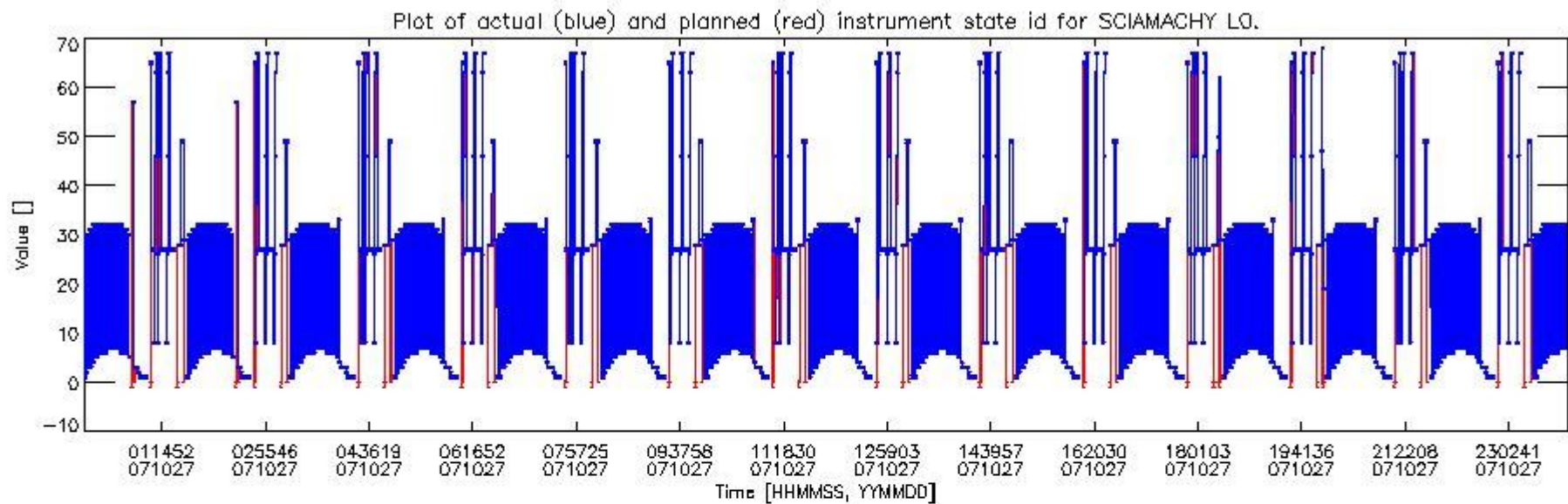


### 0.3 State monitoring

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: **32483**

#	Actual time	Actual value	Planned time	Planned value
0	27OCT2007 00:00:19.204482	30	27OCT2007 00:00:19.204482	1
1	27OCT2007 00:00:19.829464	30	27OCT2007 00:00:19.829464	1
2	27OCT2007 00:00:20.204477	30	27OCT2007 00:00:20.204477	1
3	27OCT2007 00:00:20.579490	30	27OCT2007 00:00:20.579490	1
4	27OCT2007 00:00:21.141990	30	27OCT2007 00:00:21.141990	1
5	27OCT2007 00:00:21.516962	30	27OCT2007 00:00:21.516962	1
6	27OCT2007 00:00:21.891975	30	27OCT2007 00:00:21.891975	1
7	27OCT2007 00:00:22.266988	30	27OCT2007 00:00:22.266988	1
8	27OCT2007 00:00:22.829488	30	27OCT2007 00:00:22.829488	1
9	27OCT2007 00:00:23.204461	30	27OCT2007 00:00:23.204461	1
10	27OCT2007 00:00:23.579474	30	27OCT2007 00:00:23.579474	1
11	27OCT2007 00:00:23.954487	30	27OCT2007 00:00:23.954487	1
12	27OCT2007 00:00:24.204496	30	27OCT2007 00:00:24.204496	1
13	27OCT2007 00:00:24.516986	30	27OCT2007 00:00:24.516986	1
14	27OCT2007 00:00:24.891959	30	27OCT2007 00:00:24.891959	1
15	27OCT2007 00:00:25.266972	30	27OCT2007 00:00:25.266972	1
16	27OCT2007 00:00:25.641985	30	27OCT2007 00:00:25.641985	1
17	27OCT2007 00:00:26.204485	30	27OCT2007 00:00:26.204485	1
18	27OCT2007 00:01:15.079456	2	27OCT2007 00:01:15.079456	30
19	27OCT2007 00:01:15.329465	2	27OCT2007 00:01:15.329465	30
	...	...	...	...



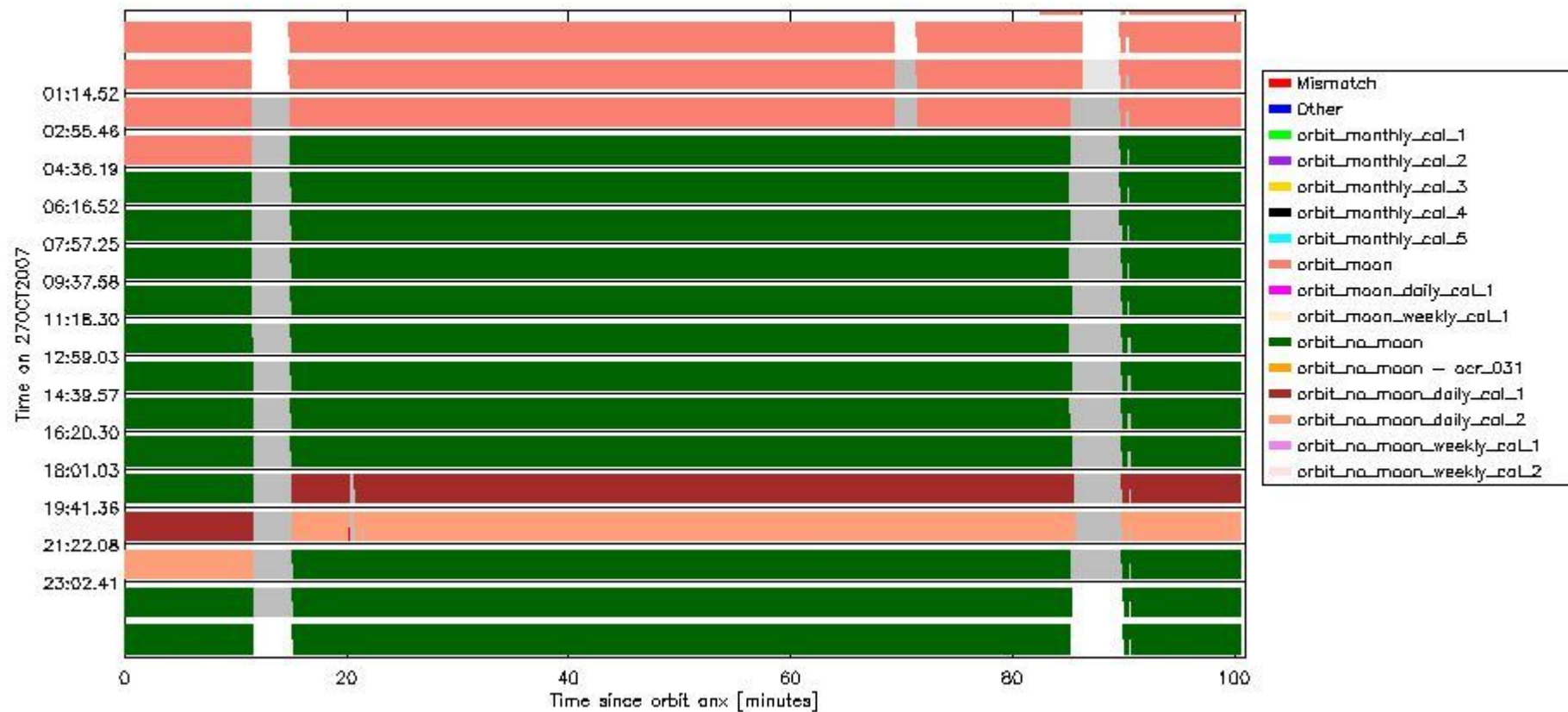
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071027\_5.PNG

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 27OCT2007.  
 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\_20071027\_6.PNG

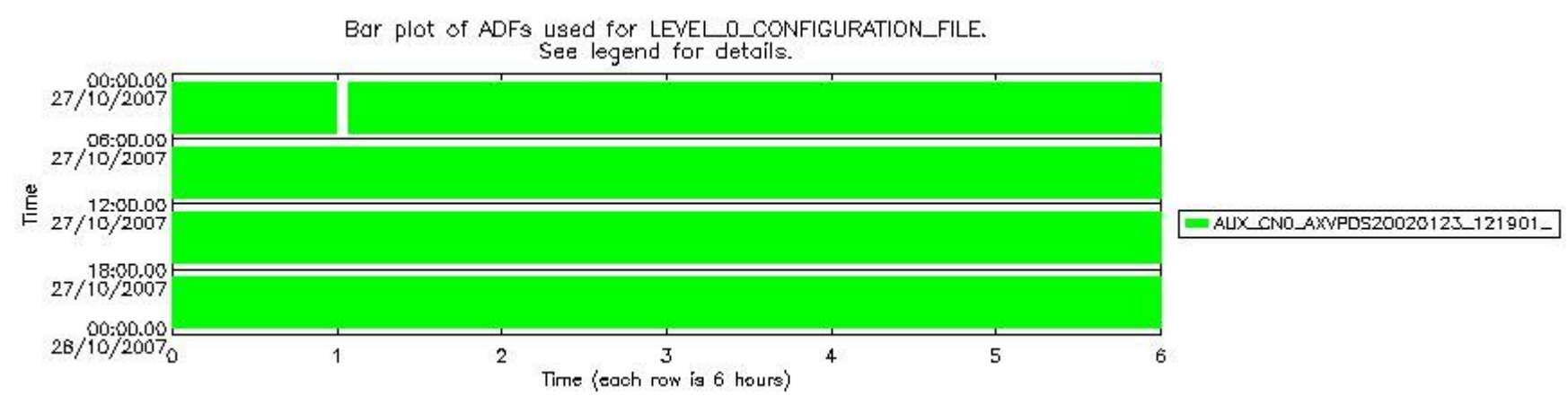
## 0.4 ADF monitoring

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

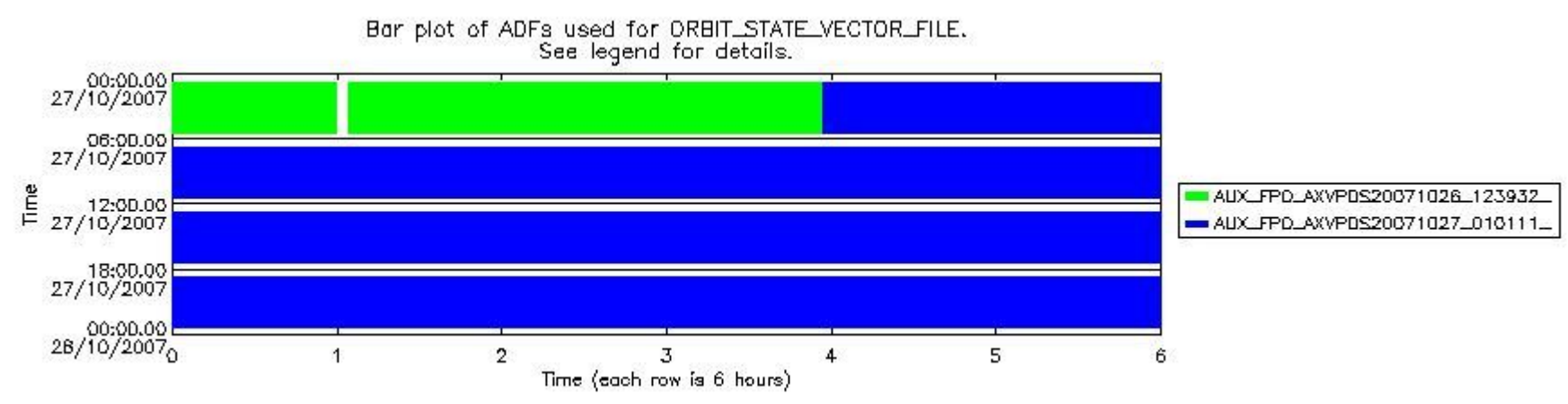
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

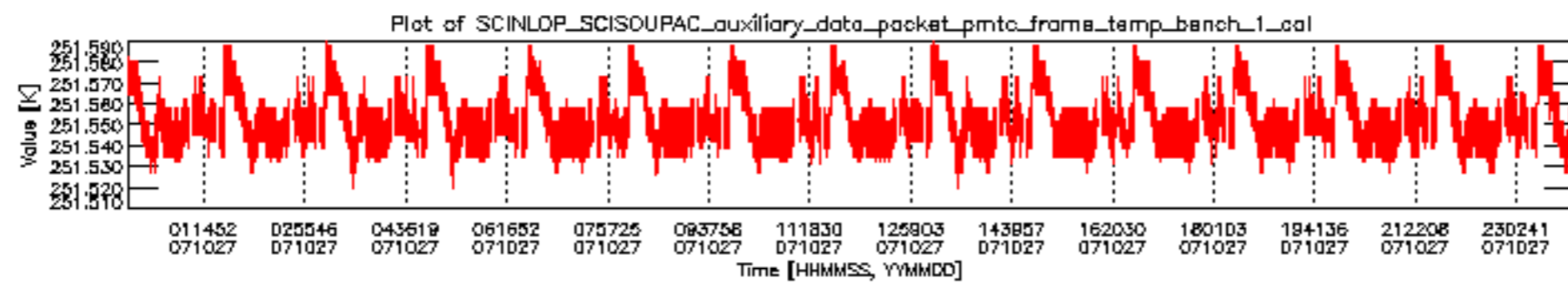
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20071026_123932_20071025_190413_20071104_203026
2	AUX_FPO_AXVPDS20071027_010111_20071026_183235_20071105_213925



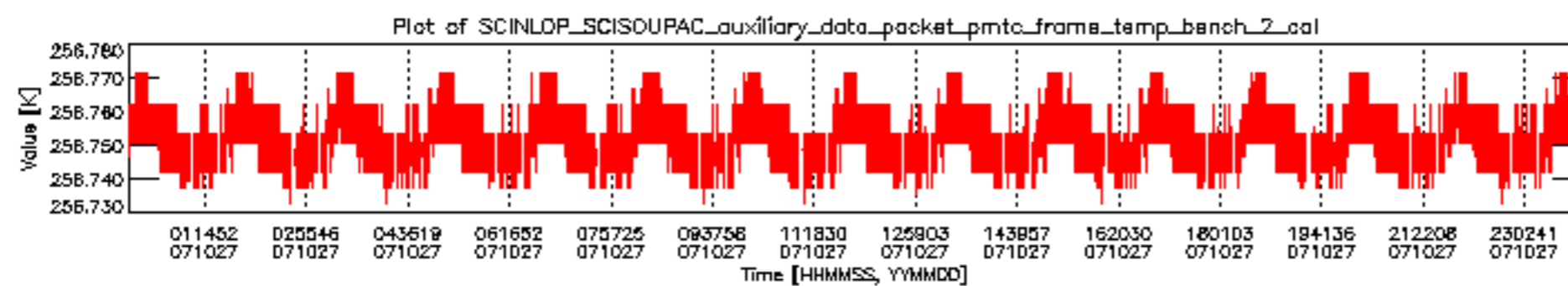
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071027\_7.PNG

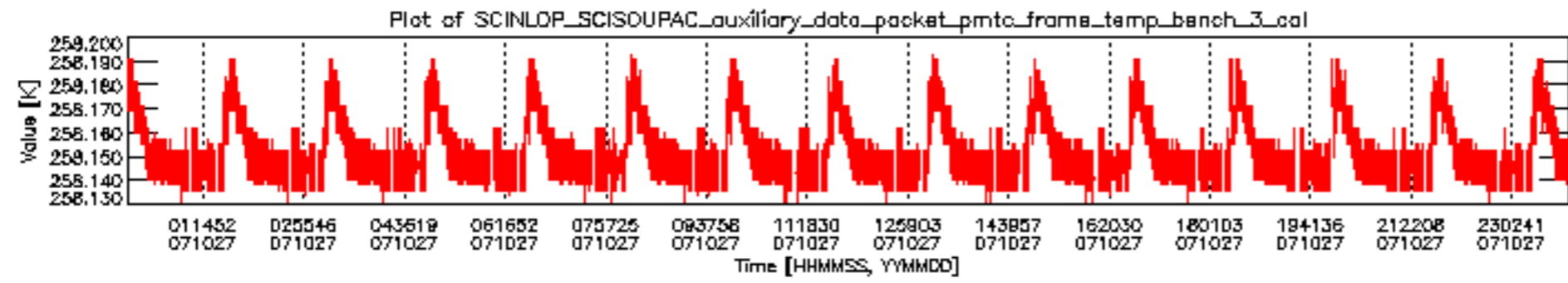


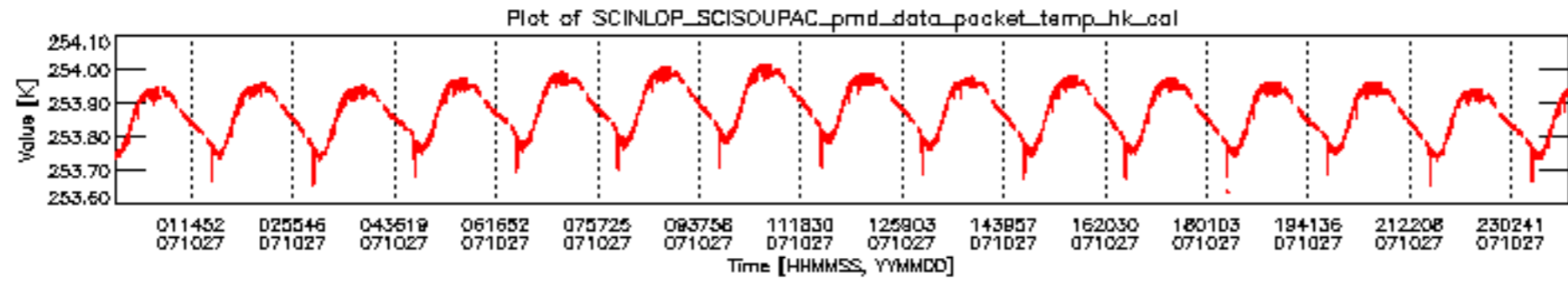
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071027\_8.PNG

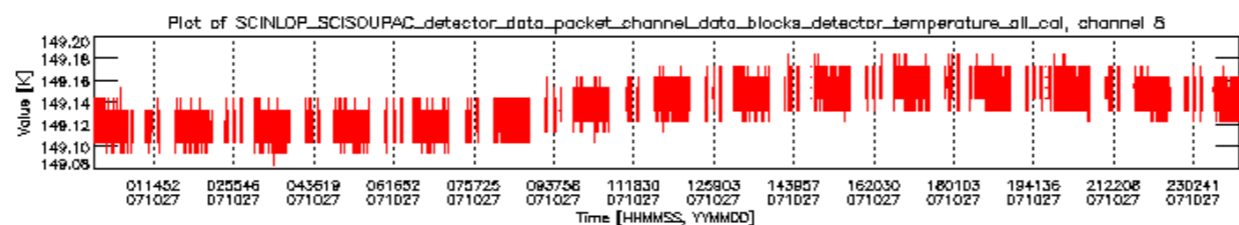
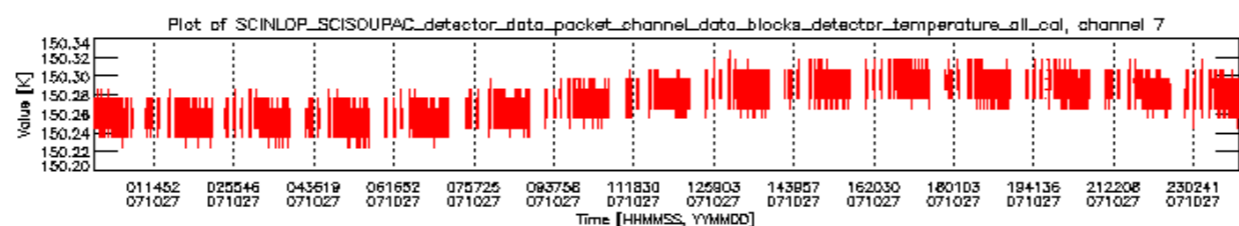
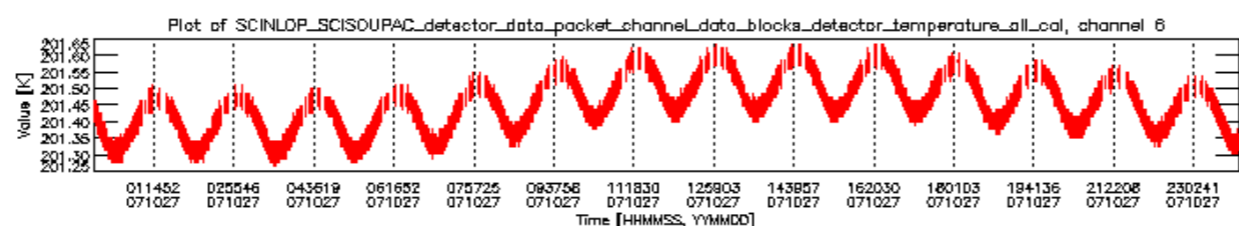
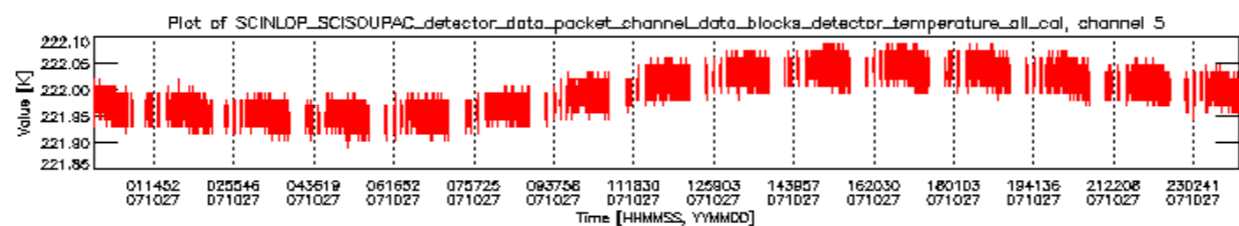
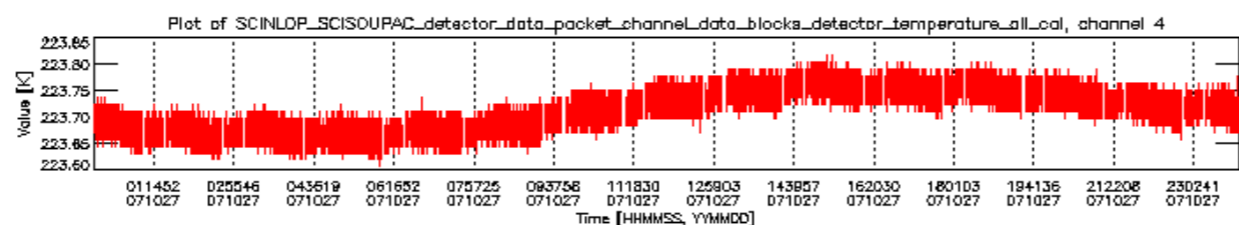
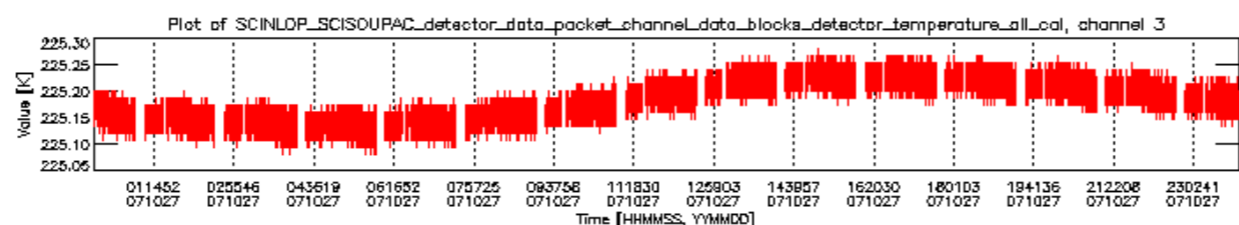
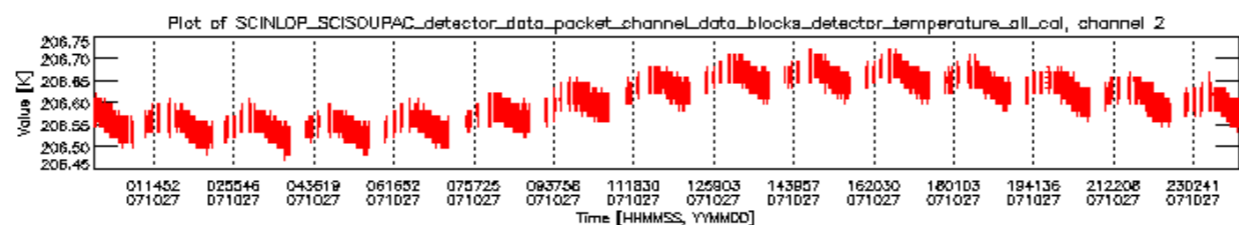
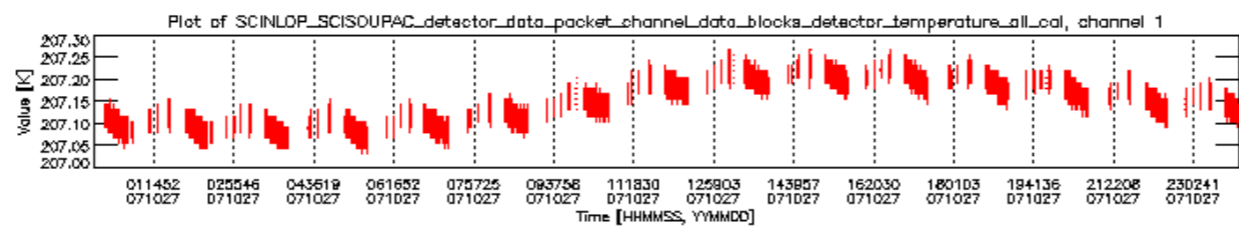




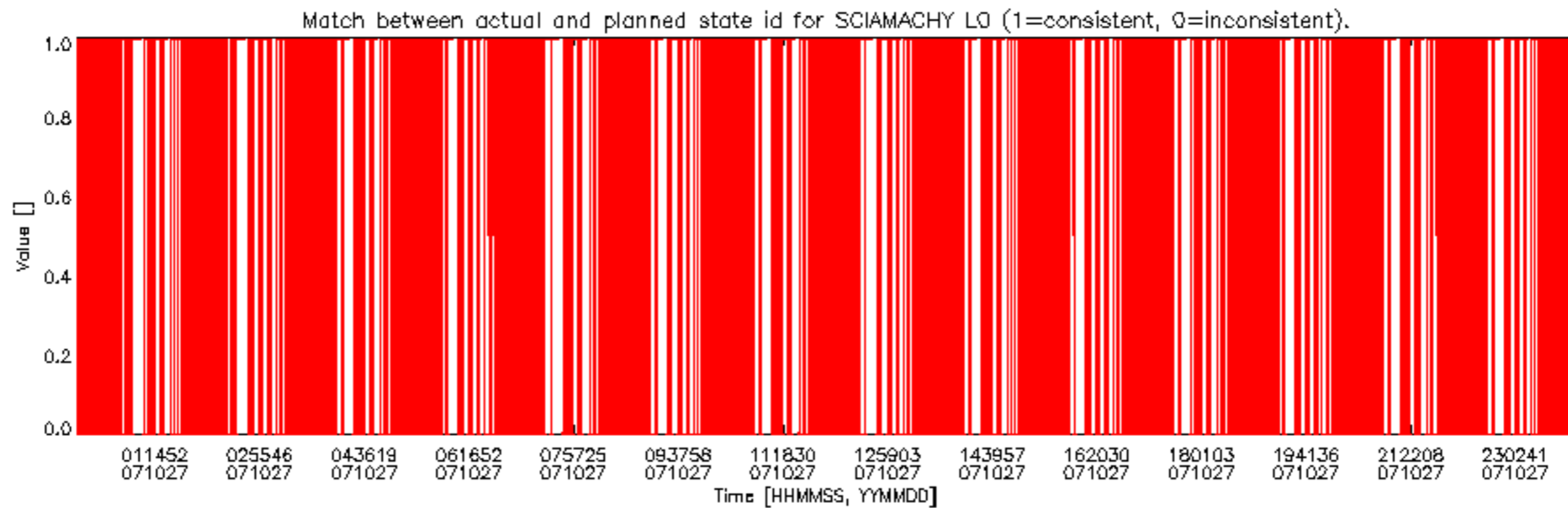
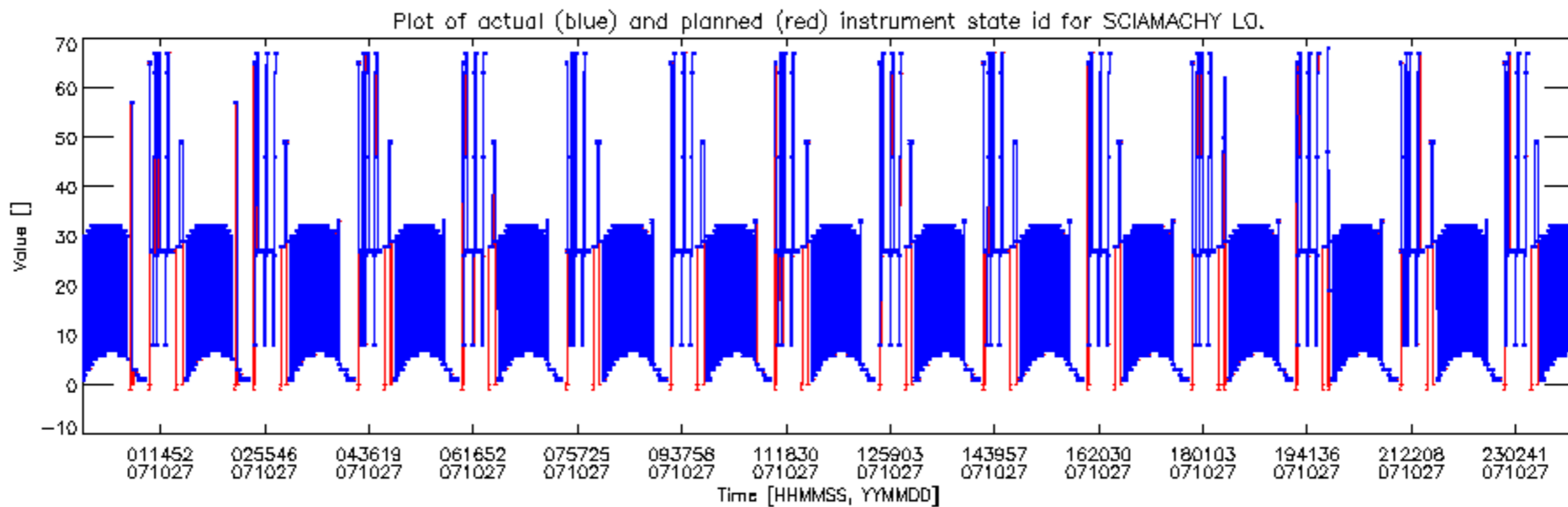












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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