

## 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	07JUL2008 05:35:56
Data source version	KSPT_L0/4303-N
Processing scope for products	03JUL2008 00:00:00 to 04JUL2008 00:00:00
Start time of first product within scope	02JUL2008 22:23:14
Stop time of last product within scope	04JUL2008 01:14:14
Total number of level 0 products	17
Number of level 0 products with errors	1

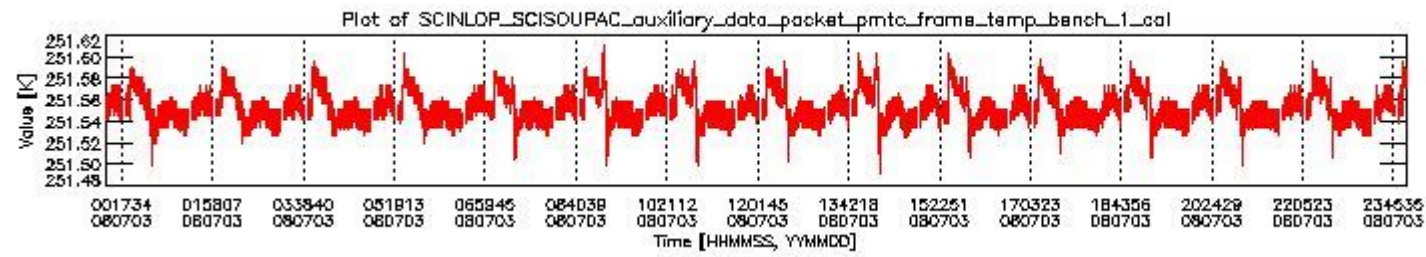
### 0.1.2 Summary per product

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

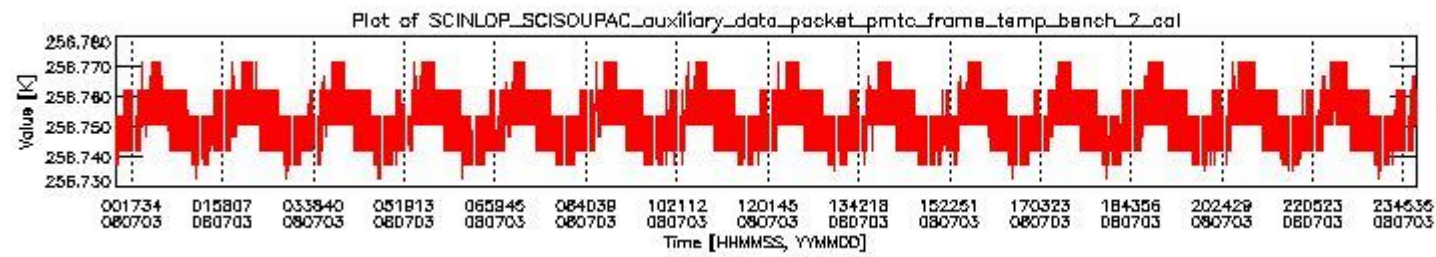
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080702_222314_000061322070_00029_33149_7033.N1	02JUL2008 22:23:14	03JUL2008 00:05:26	0	0	0	0	0
1	SCI_NL__OPNPDE20080703_000442_000059842070_00030_33150_7034.N1	03JUL2008 00:04:42	03JUL2008 01:44:26	0	0	0	0	0
2	SCI_NL__OPNPDE20080703_014352_000044252070_00031_33151_7035.N1	03JUL2008 01:43:52	03JUL2008 02:57:37	0	0	0	0	0
3	SCI_NL__OPNPDE20080703_025737_000061052070_00032_33152_7036.N1	03JUL2008 02:57:37	03JUL2008 04:39:21	0	0	0	0	0
4	SCI_NL__OPNPDE20080703_043921_000060922070_00033_33153_7037.N1	03JUL2008 04:39:21	03JUL2008 06:20:53	0	0	0	0	0
5	SCI_NL__OPNPDK20080703_061958_000041142070_00034_33154_8664.N1	03JUL2008 06:19:58	03JUL2008 07:28:31	0	0	0	0	0
6	SCI_NL__OPNPDK20080703_072723_000061602070_00035_33155_8665.N1	03JUL2008 07:27:23	03JUL2008 09:10:03	0	0	0	0	0
7	SCI_NL__OPNPDK20080703_091003_000059122070_00036_33156_8666.N1	03JUL2008 09:10:03	03JUL2008 10:48:35	1	1	0	0	0
8	SCI_NL__OPNPDK20080703_104835_000060362070_00037_33157_8667.N1	03JUL2008 10:48:35	03JUL2008 12:29:11	0	0	0	0	0
9	SCI_NL__OPNPDK20080703_122802_000059802070_00038_33158_8668.N1	03JUL2008 12:28:02	03JUL2008 14:07:42	0	0	0	0	0
10	SCI_NL__OPNPDK20080703_140646_000058432070_00039_33159_8669.N1	03JUL2008 14:06:46	03JUL2008 15:44:09	0	0	0	0	0
11	SCI_NL__OPNPDK20080703_154409_000058722070_00040_33160_8670.N1	03JUL2008 15:44:09	03JUL2008 17:22:01	0	0	0	0	0
12	SCI_NL__OPNPDK20080703_172052_000059802070_00041_33161_8671.N1	03JUL2008 17:20:52	03JUL2008 19:00:32	0	0	0	0	0
13	SCI_NL__OPNPDK20080703_185924_000060202070_00042_33162_8672.N1	03JUL2008 18:59:24	03JUL2008 20:39:44	0	0	0	0	0
14	SCI_NL__OPNPDE20080703_203848_000043702070_00043_33163_7039.N1	03JUL2008 20:38:48	03JUL2008 21:51:38	0	0	0	0	0
15	SCI_NL__OPNPDE20080703_215138_000062092070_00043_33163_7040.N1	03JUL2008 21:51:38	03JUL2008 23:35:07	0	0	0	0	0
16	SCI_NL__OPNPDE20080703_233350_000060232070_00044_33164_7041.N1	03JUL2008 23:33:50	04JUL2008 01:14:14	0	0	0	0	0

## 0.2 Product Quality Indicators

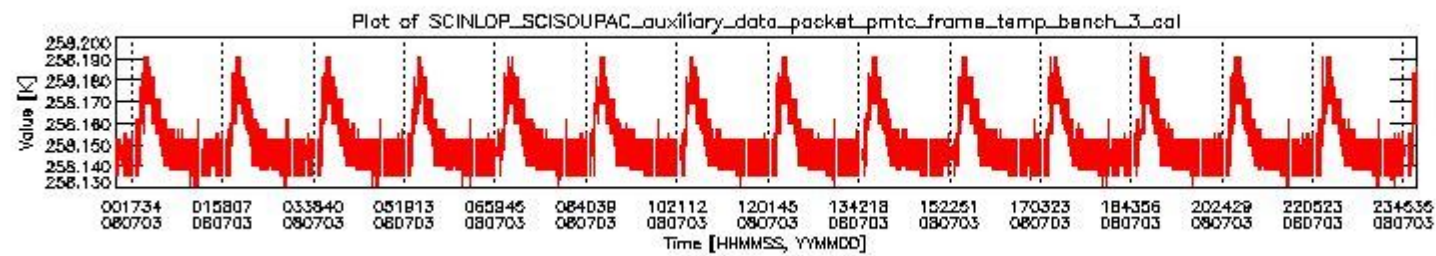
This section shows information about product quality, currently temperatures.



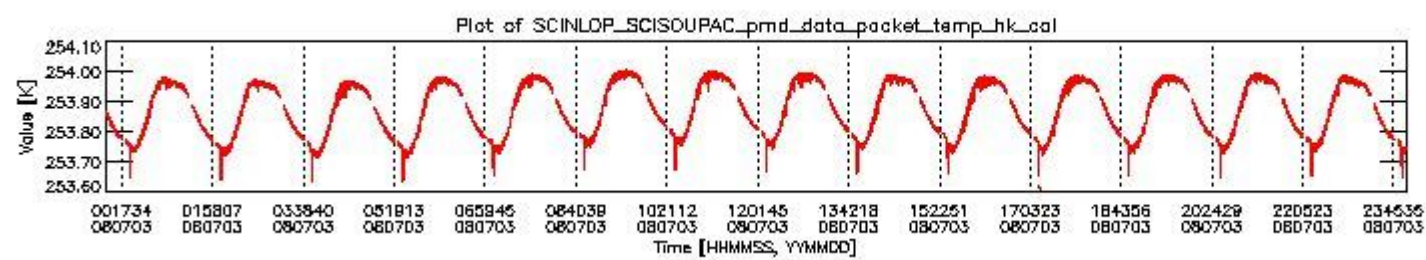
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080703\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080703\_1.PNG

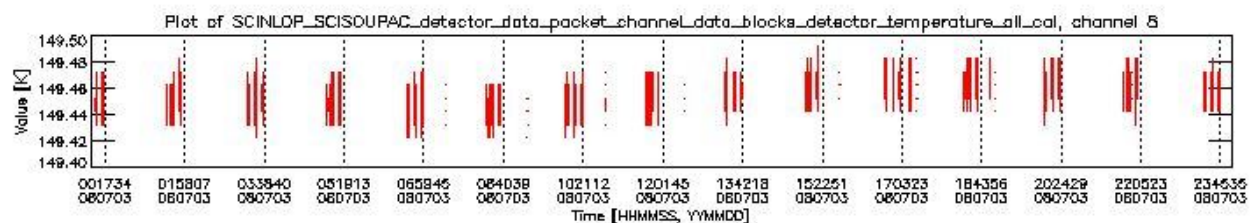
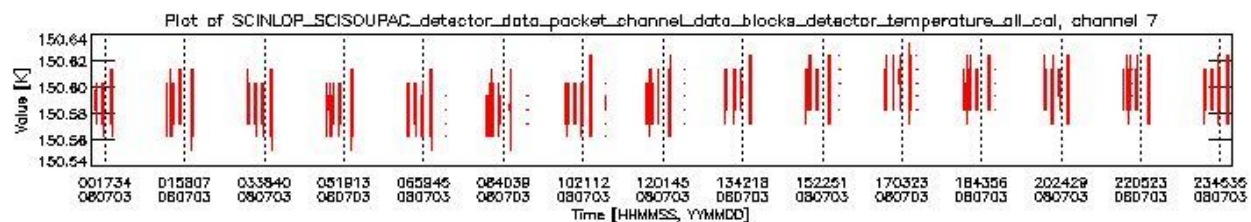
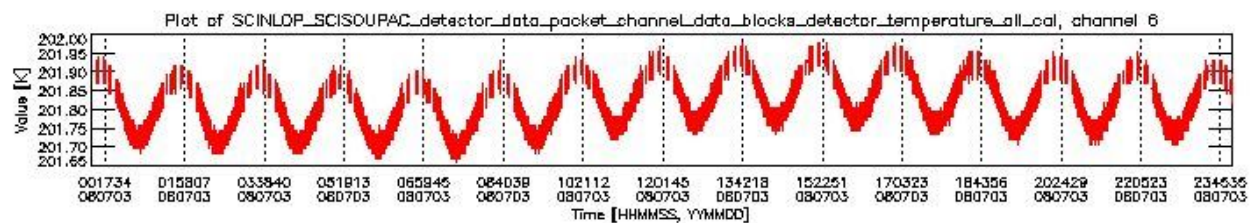
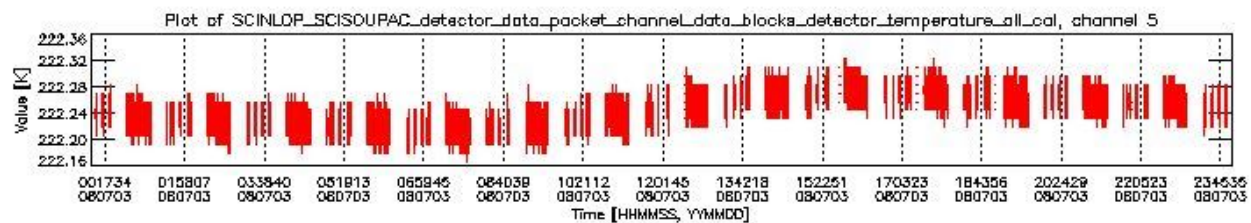
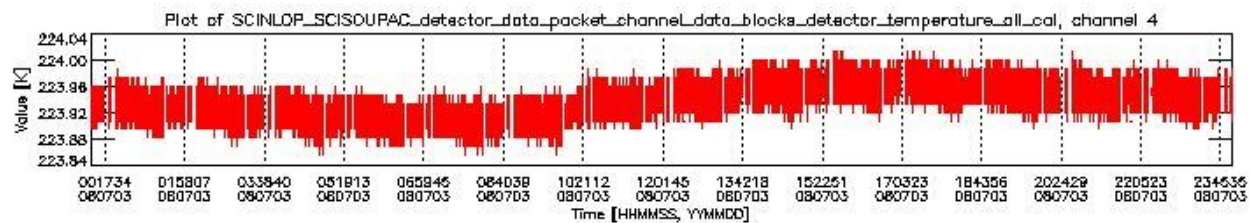
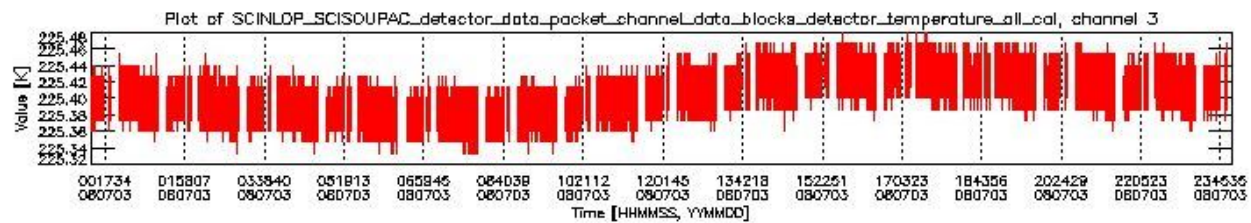
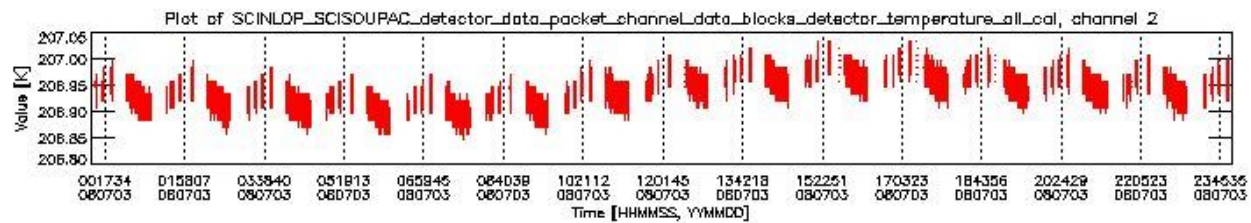
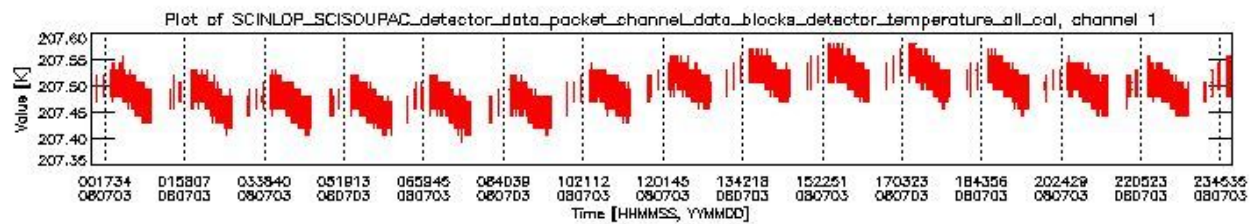


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080703\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080703\_3.PNG



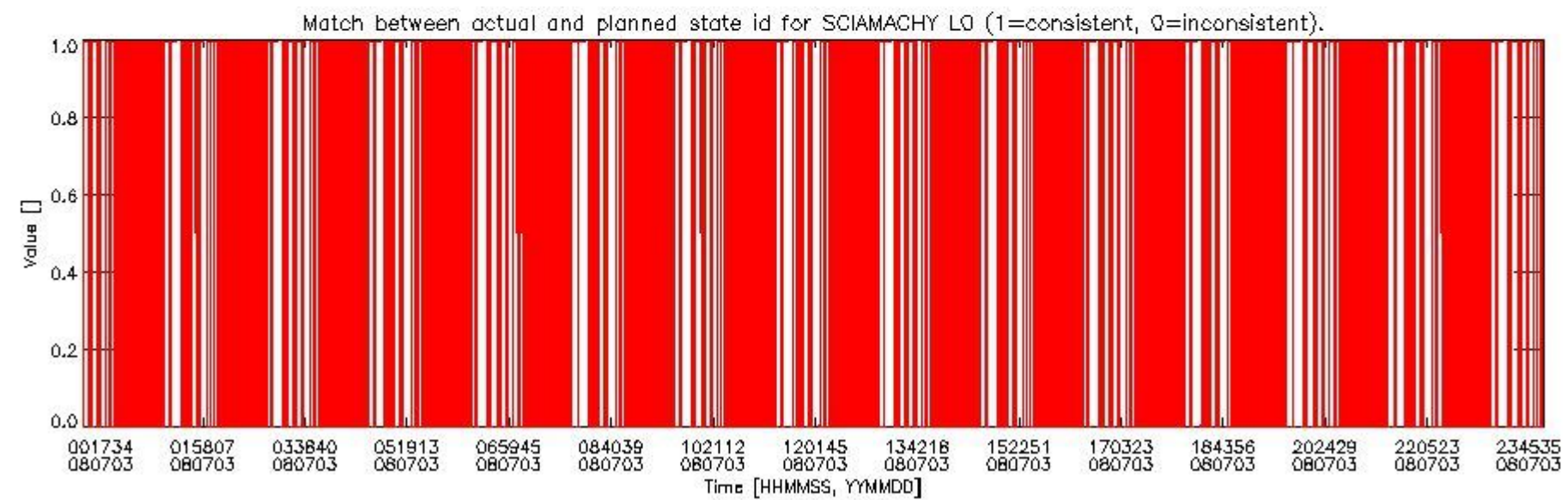
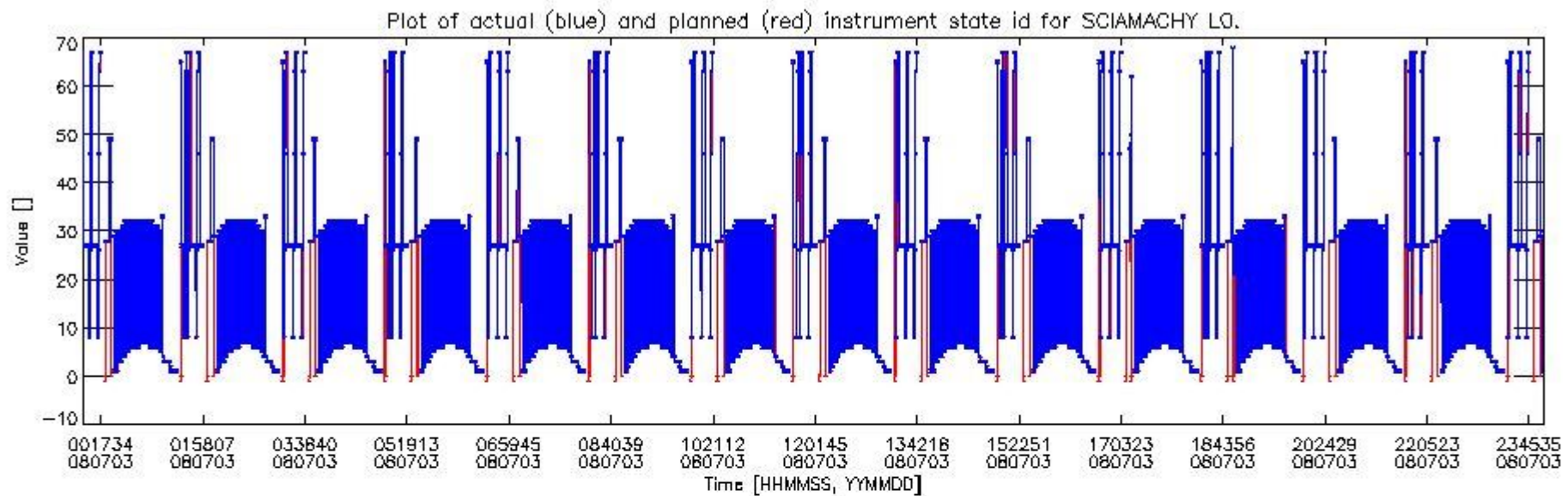


### 0.3 State monitoring

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: **37861**

#	Actual time	Actual value	Planned time	Planned value
0	03JUL2008 00:05:26.162343	8	03JUL2008 00:05:26.162343	27
1	03JUL2008 00:05:27.287342	8	03JUL2008 00:05:27.287342	27
2	03JUL2008 00:05:28.287336	8	03JUL2008 00:05:28.287336	27
3	03JUL2008 00:05:29.287331	8	03JUL2008 00:05:29.287331	27
4	03JUL2008 00:05:30.287325	8	03JUL2008 00:05:30.287325	27
5	03JUL2008 00:05:31.162316	8	03JUL2008 00:05:31.162316	27
6	03JUL2008 00:05:31.287320	8	03JUL2008 00:05:31.287320	27
7	03JUL2008 00:05:32.287315	8	03JUL2008 00:05:32.287315	27
8	03JUL2008 00:05:33.287349	8	03JUL2008 00:05:33.287349	27
9	03JUL2008 00:06:09.720948	26	03JUL2008 00:06:09.720948	8
10	03JUL2008 00:06:10.345929	26	03JUL2008 00:06:10.345929	8
11	03JUL2008 00:06:10.845947	26	03JUL2008 00:06:10.845947	8
12	03JUL2008 00:06:11.345924	26	03JUL2008 00:06:11.345924	8
13	03JUL2008 00:06:11.845941	26	03JUL2008 00:06:11.845941	8
14	03JUL2008 00:06:12.345918	26	03JUL2008 00:06:12.345918	8
15	03JUL2008 00:06:12.845936	26	03JUL2008 00:06:12.845936	8
16	03JUL2008 00:06:13.345913	26	03JUL2008 00:06:13.345913	8
17	03JUL2008 00:06:13.845930	26	03JUL2008 00:06:13.845930	8
18	03JUL2008 00:06:14.345948	26	03JUL2008 00:06:14.345948	8
19	03JUL2008 00:06:14.720921	26	03JUL2008 00:06:14.720921	8
	...	...	...	...



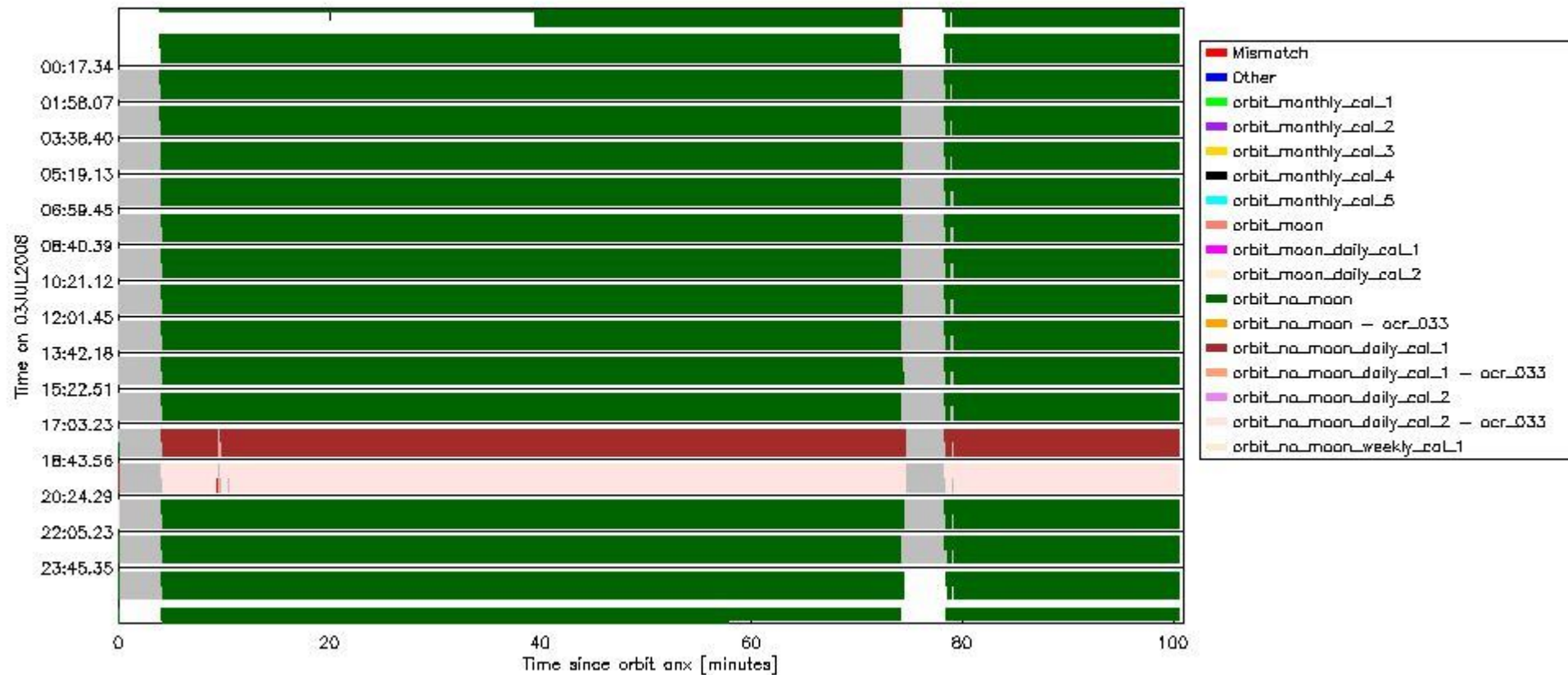
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080703\_5.PNG

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 Q3JUL2008.  
 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\_20080703\_6.PNG

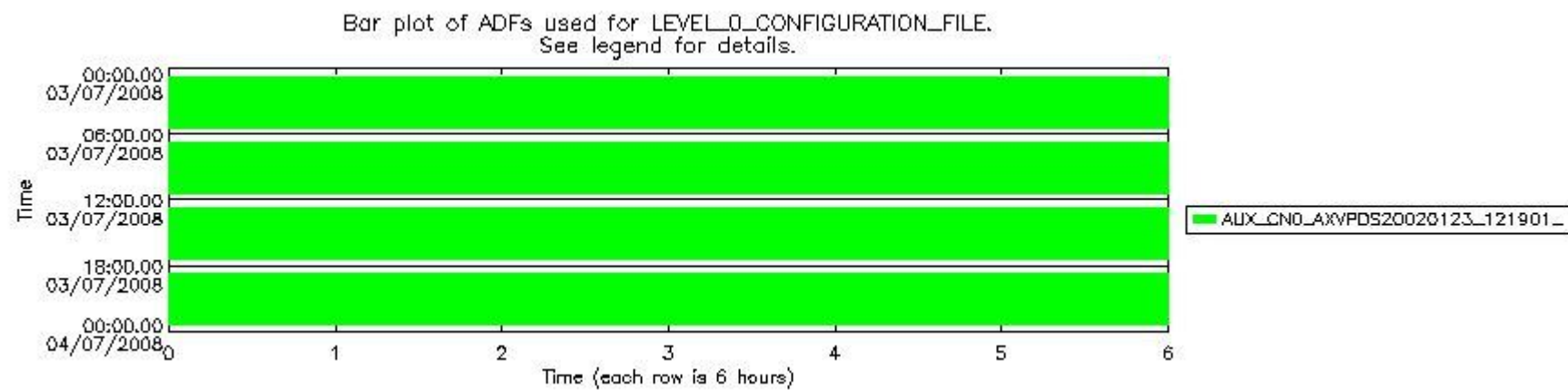
## 0.4 ADF monitoring

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

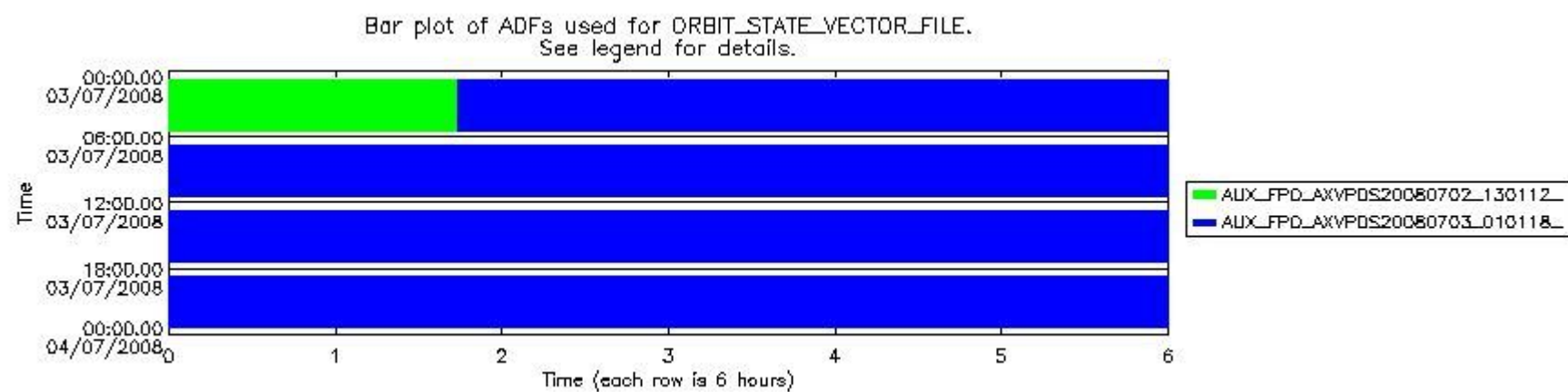
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

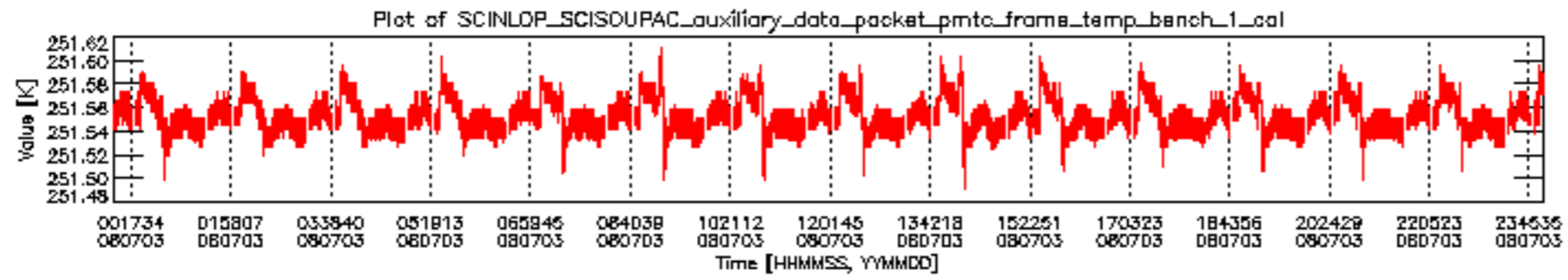
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20080702_130112_20080701_194718_20080711_211334</b>
2	<b>AUX_FPO_AXVPDS20080703_010118_20080702_105242_20080711_225408</b>



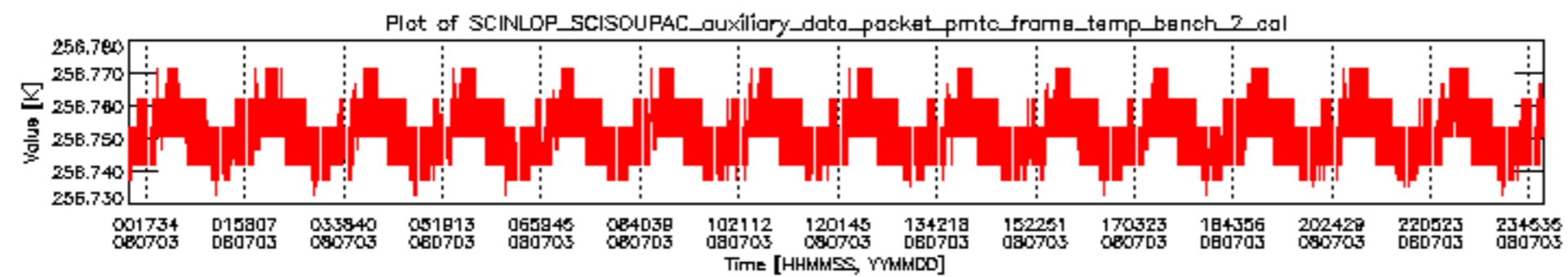
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080703\_7.PNG

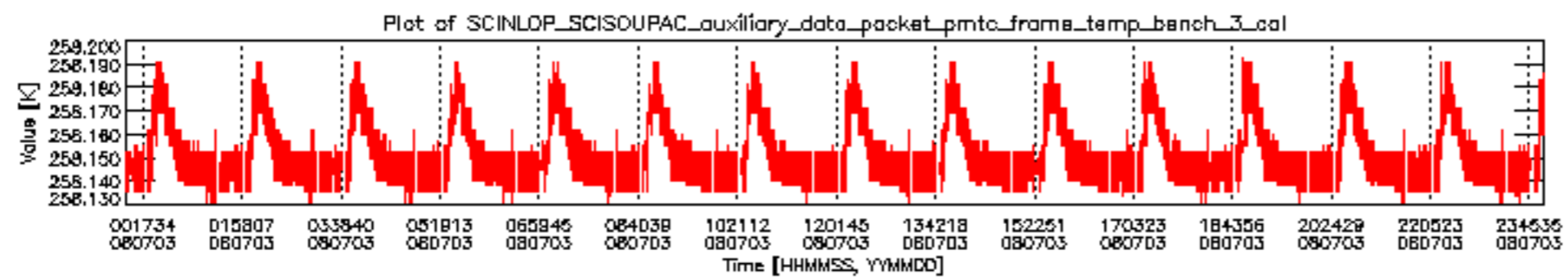


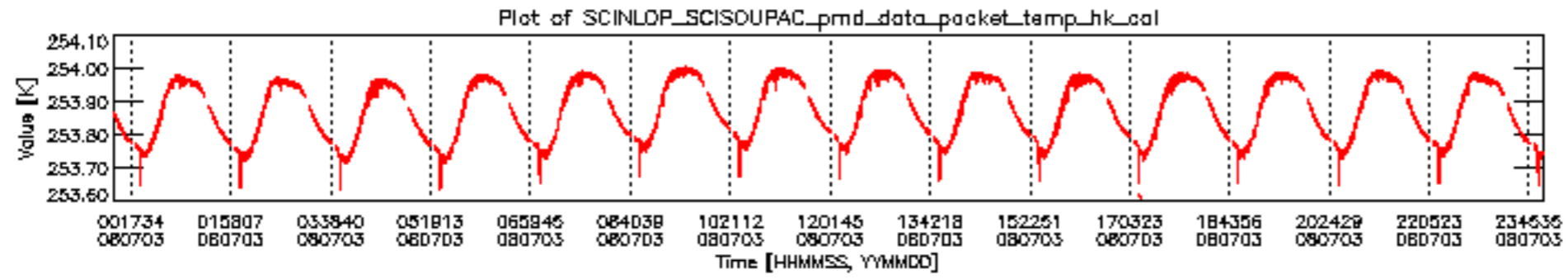
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080703\_8.PNG

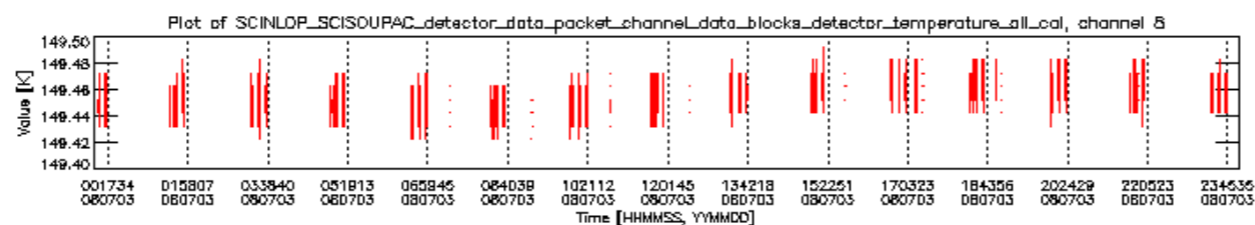
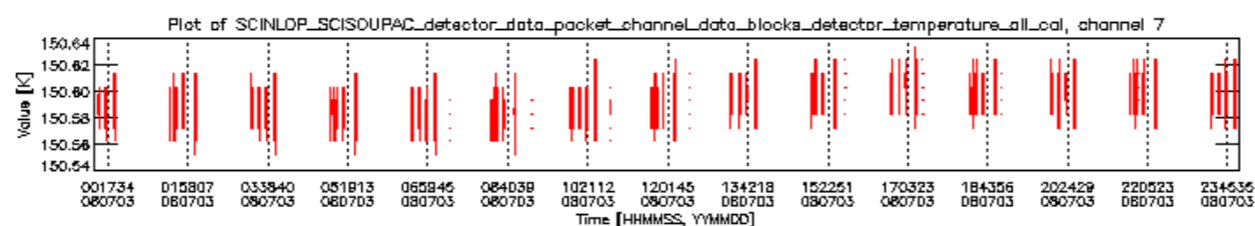
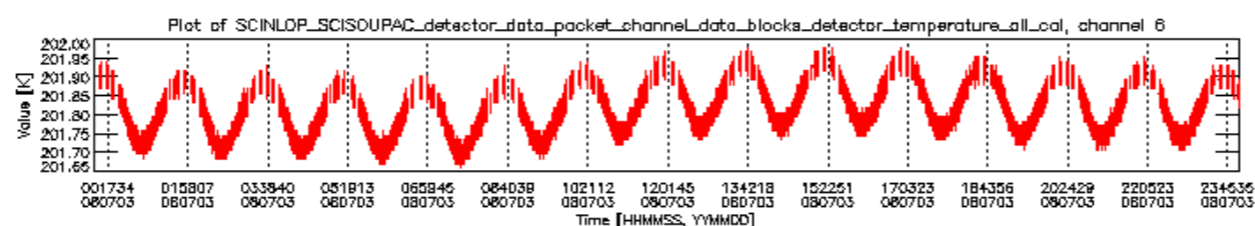
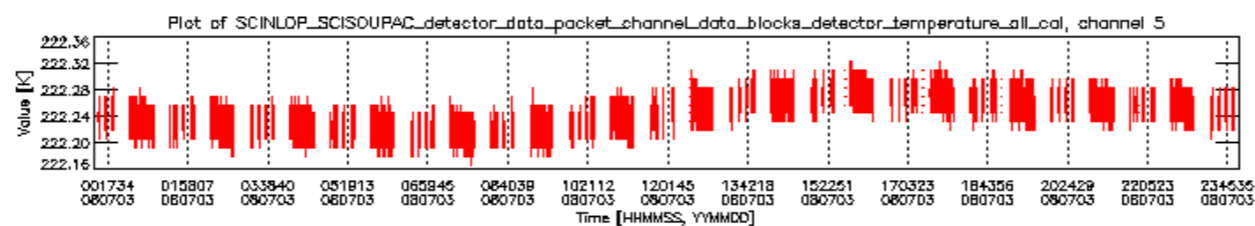
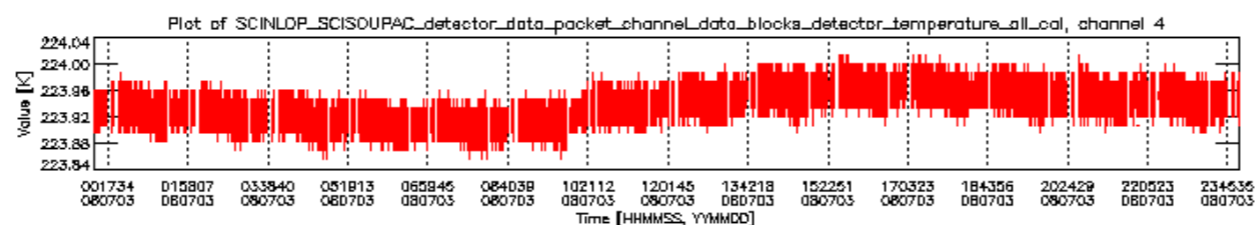
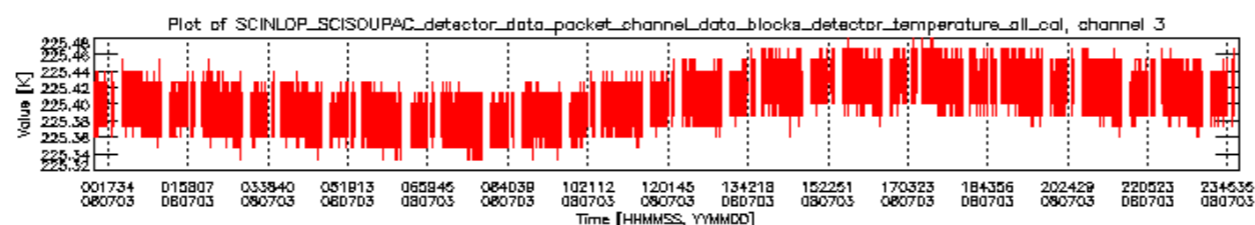
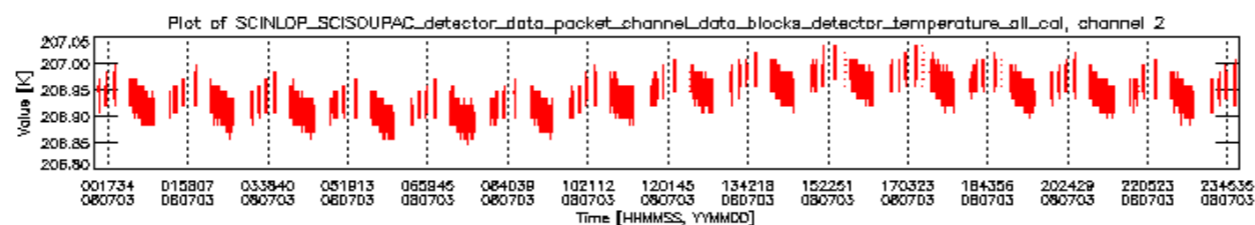
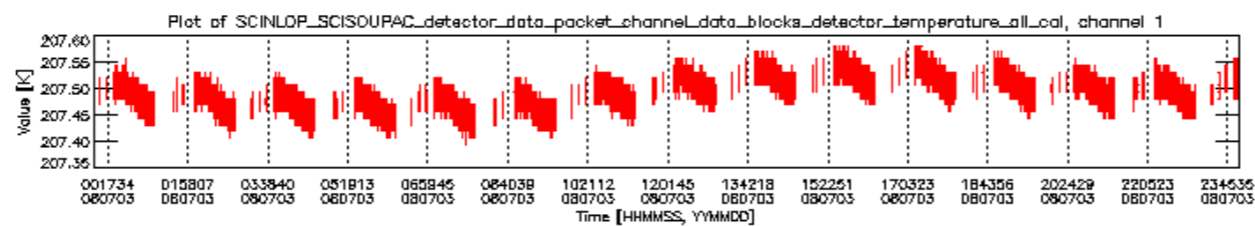




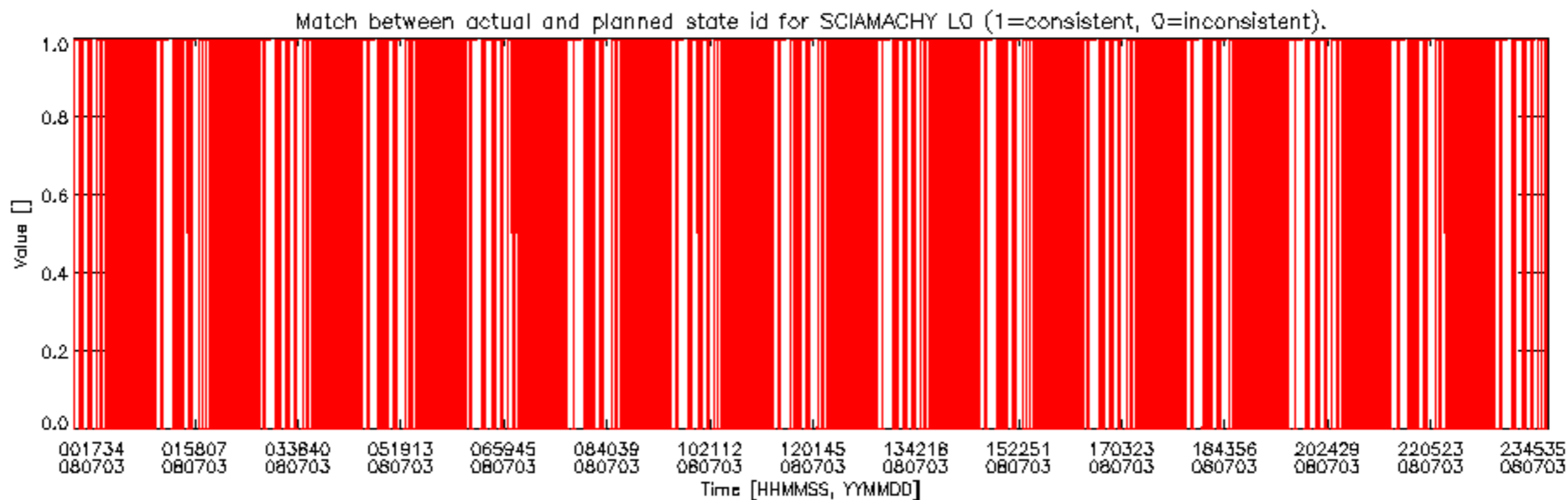
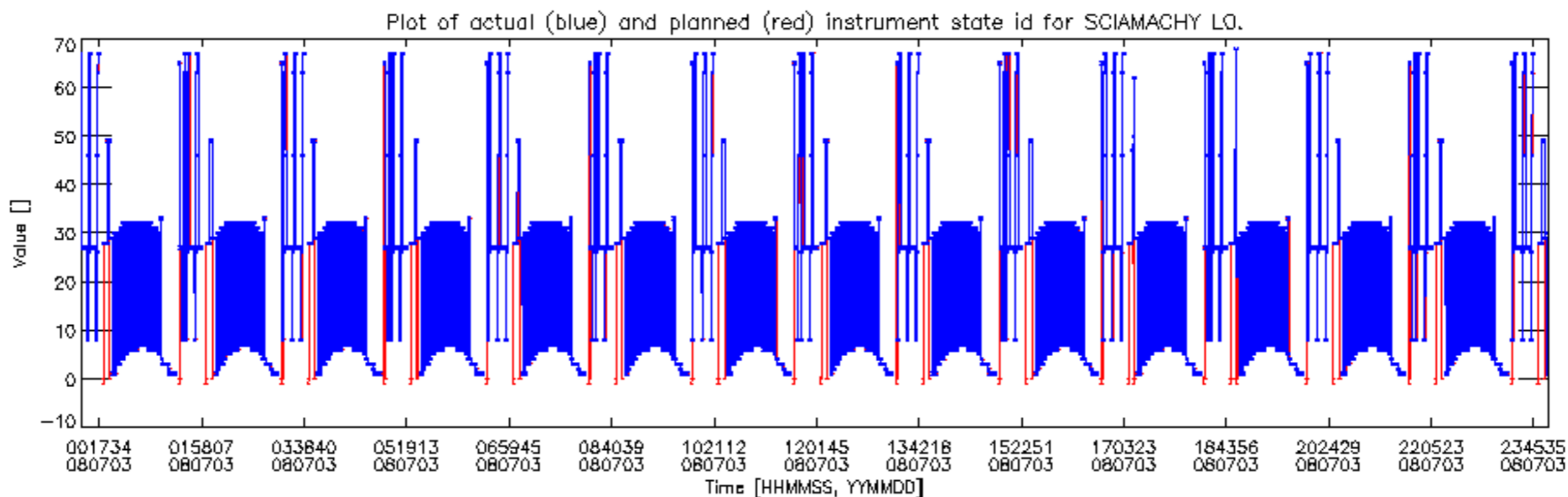












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

