

## 0. SCIAMACHY Daily Report for level 0 products

### [0.1 General Info](#)

### [0.2 Product Quality Indicators](#)

### [0.3 State monitoring](#)

### [0.4 ADF monitoring](#)

## 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	13APR2009 05:21:09
Data source version	KSPT_L0/4303-N
Processing scope for products	09APR2009 00:00:00 to 10APR2009 00:00:00
Start time of first product within scope	08APR2009 22:23:21
Stop time of last product within scope	10APR2009 01:13:35
Total number of level 0 products	17
Number of level 0 products with errors	1

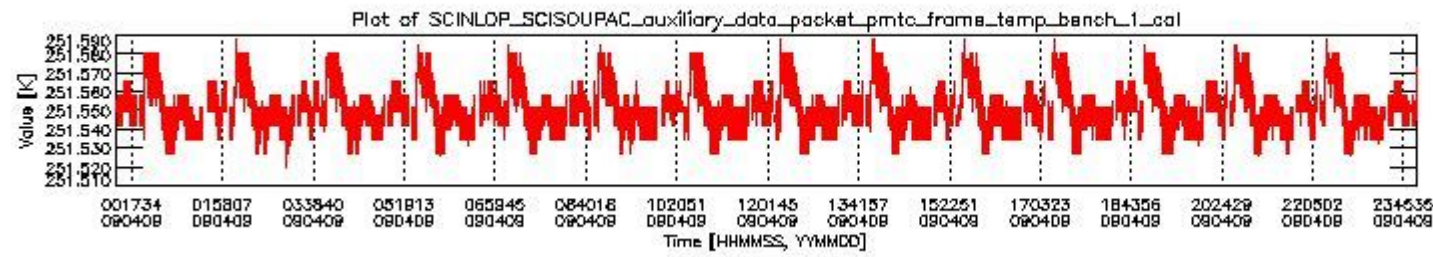
### 0.1.2 Summary per product

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

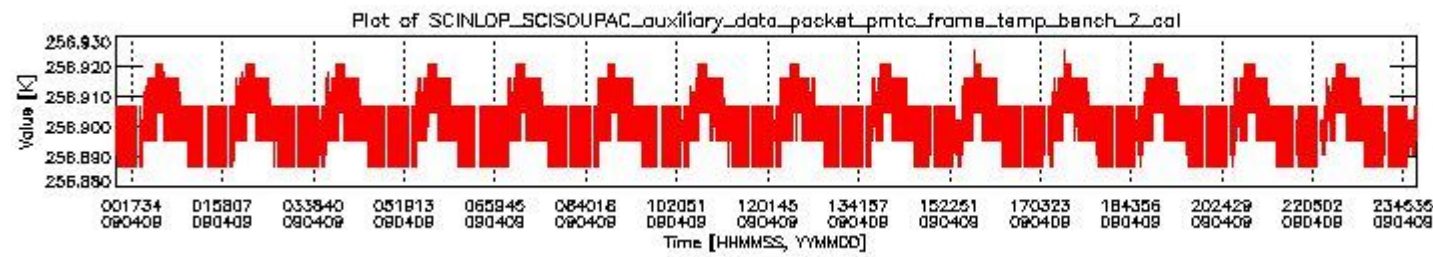
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090408_222321_000061552078_00029_37157_8910.N1	08APR2009 22:23:21	09APR2009 00:05:57	0	0	0	0	0
1	SCI_NL__OPNPDE20090409_000429_000059602078_00030_37158_8911.N1	09APR2009 00:04:29	09APR2009 01:43:49	0	0	0	0	0
2	SCI_NL__OPNPDE20090409_014220_000045172078_00031_37159_8912.N1	09APR2009 01:42:20	09APR2009 02:57:37	0	0	0	0	0
3	SCI_NL__OPNPDE20090409_025642_000061602078_00032_37160_8913.N1	09APR2009 02:56:42	09APR2009 04:39:21	0	0	0	0	0
4	SCI_NL__OPNPDE20090409_043921_000060362078_00033_37161_8914.N1	09APR2009 04:39:21	09APR2009 06:19:57	0	0	0	0	0
5	SCI_NL__OPNPDK20090409_061957_000041132078_00034_37162_1215.N1	09APR2009 06:19:57	09APR2009 07:28:30	1	1	0	0	0
6	SCI_NL__OPNPDK20090409_072722_000060922078_00035_37163_1217.N1	09APR2009 07:27:22	09APR2009 09:08:54	0	0	0	0	0
7	SCI_NL__OPNPDK20090409_090758_000060352078_00036_37164_1218.N1	09APR2009 09:07:58	09APR2009 10:48:33	0	0	0	0	0
8	SCI_NL__OPNPDK20090409_104737_000060232078_00037_37165_1219.N1	09APR2009 10:47:37	09APR2009 12:28:00	0	0	0	0	0
9	SCI_NL__OPNPDK20090409_122704_000060362078_00038_37166_1220.N1	09APR2009 12:27:04	09APR2009 14:07:40	0	0	0	0	0
10	SCI_NL__OPNPDK20090409_140644_000057742078_00039_37167_1221.N1	09APR2009 14:06:44	09APR2009 15:42:58	0	0	0	0	0
11	SCI_NL__OPNPDK20090409_154054_000060562078_00040_37168_1222.N1	09APR2009 15:40:54	09APR2009 17:21:49	0	0	0	0	0
12	SCI_NL__OPNPDK20090409_171958_000060912078_00041_37169_1223.N1	09APR2009 17:19:58	09APR2009 19:01:29	0	0	0	0	0
13	SCI_NL__OPNPDK20090409_190129_000060152078_00042_37170_1224.N1	09APR2009 19:01:29	09APR2009 20:41:45	0	0	0	0	0
14	SCI_NL__OPNPDE20090409_203953_000043862078_00043_37171_8915.N1	09APR2009 20:39:53	09APR2009 21:52:58	0	0	0	0	0
15	SCI_NL__OPNPDE20090409_215225_000060642078_00043_37171_8916.N1	09APR2009 21:52:25	09APR2009 23:33:29	0	0	0	0	0
16	SCI_NL__OPNPDE20090409_233245_000060502078_00044_37172_8917.N1	09APR2009 23:32:45	10APR2009 01:13:35	0	0	0	0	0

## 0.2 Product Quality Indicators

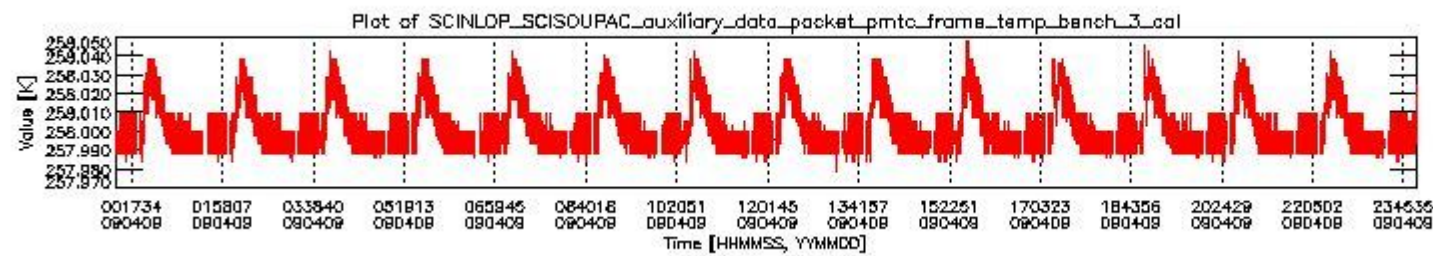
This section shows information about product quality, currently temperatures.



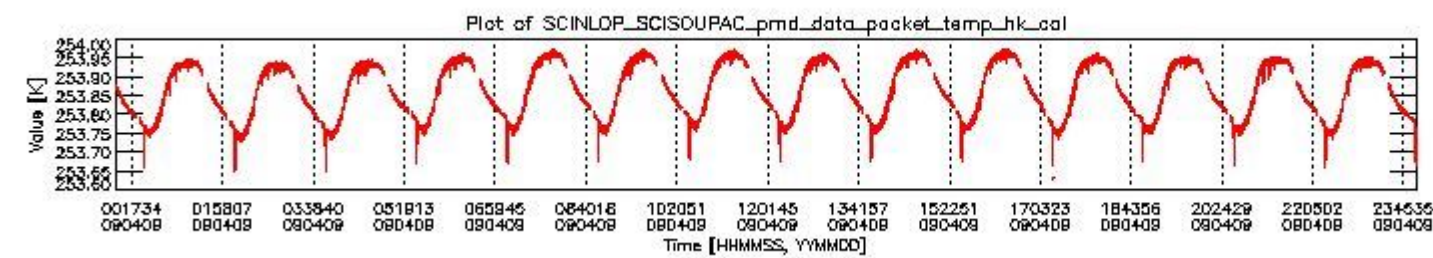
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090409\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090409\_1.PNG

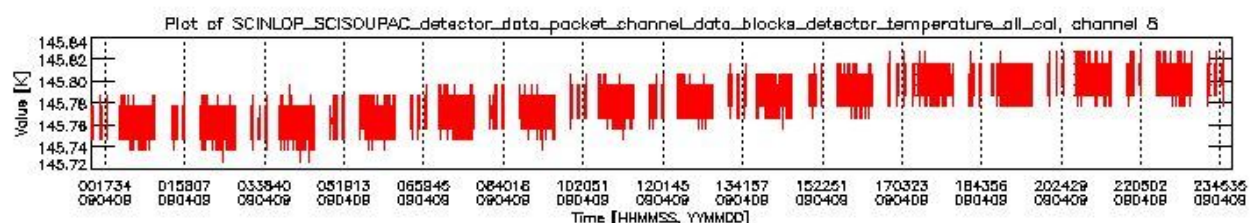
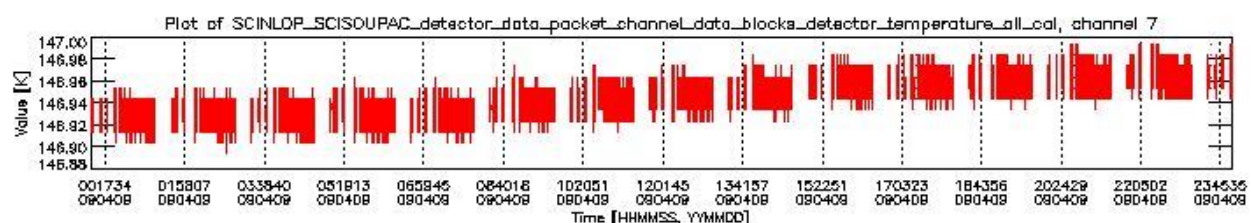
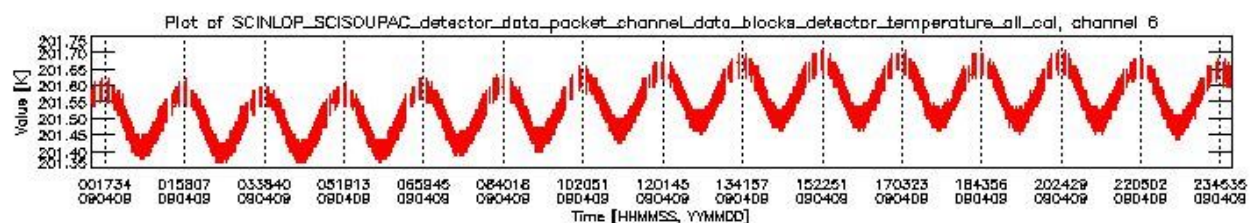
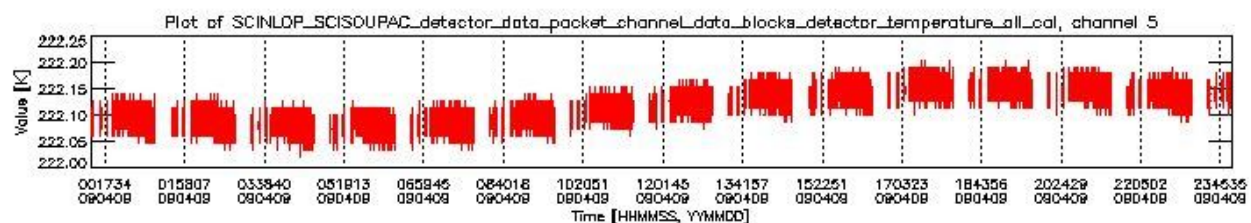
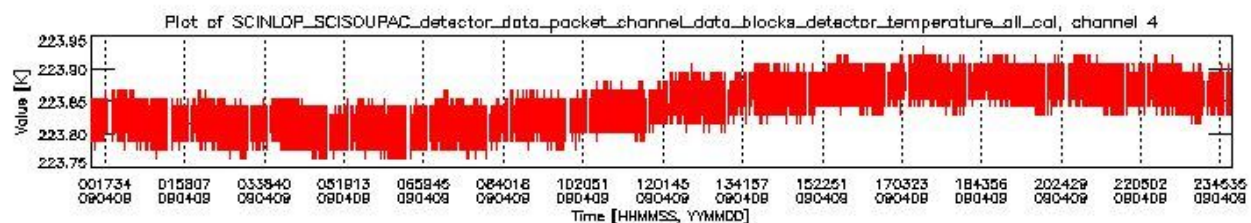
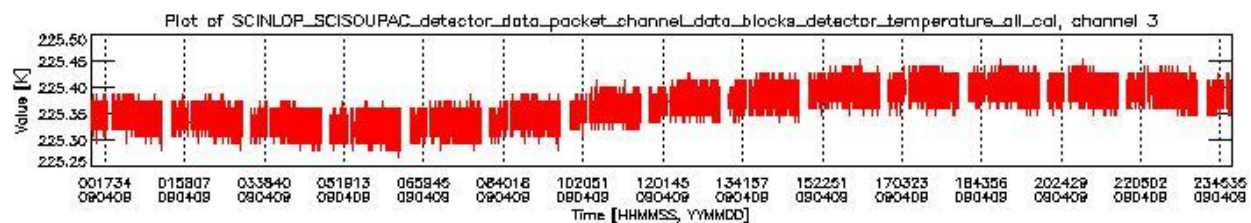
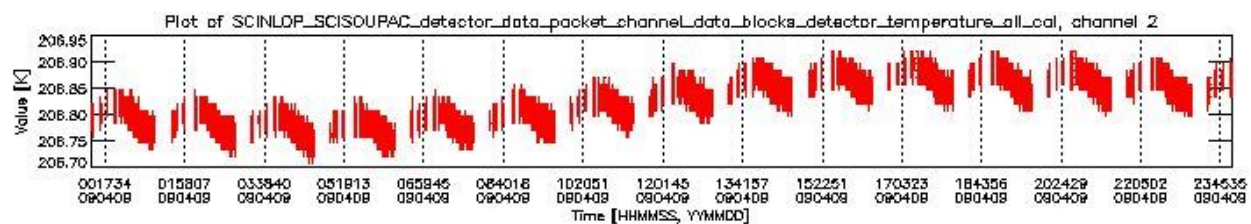
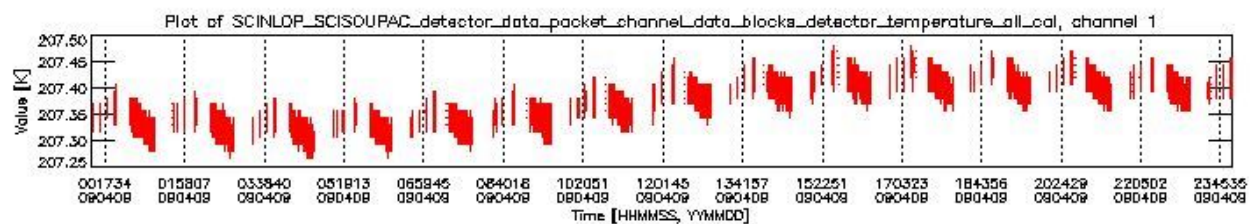


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090409\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090409\_3.PNG



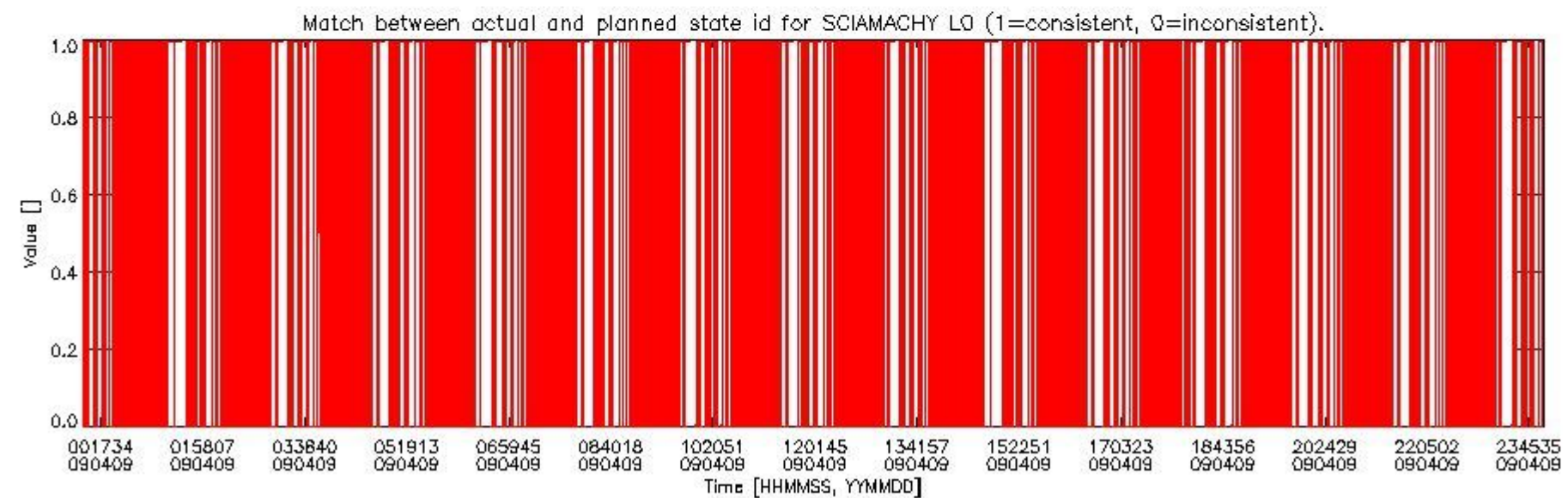
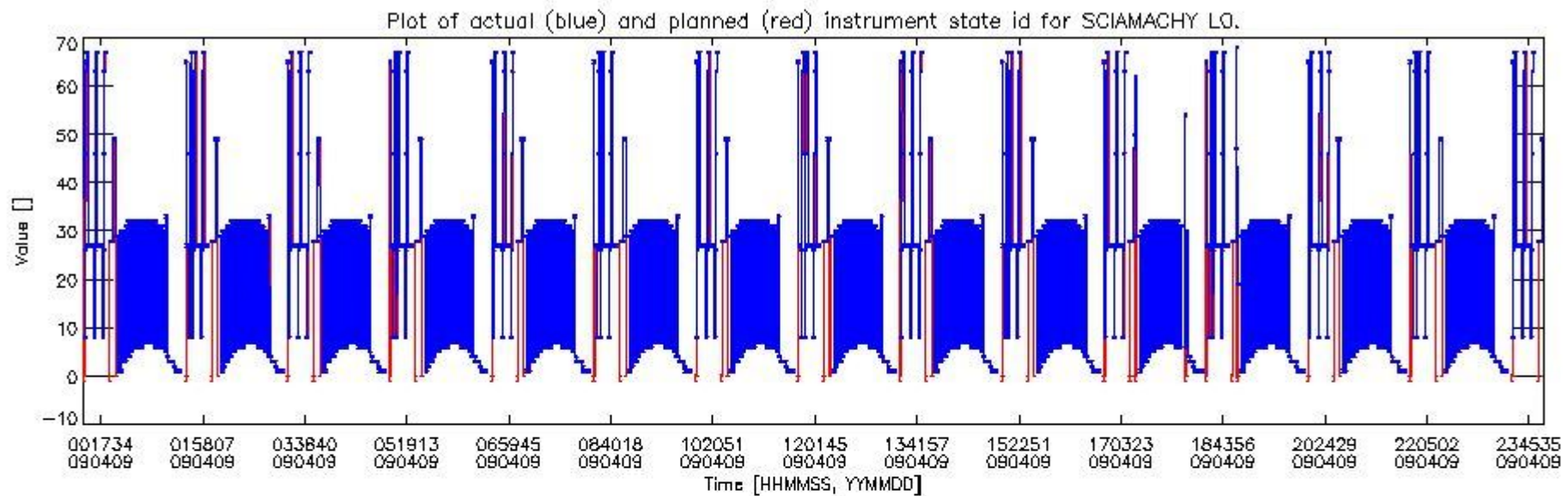


### 0.3 State monitoring

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: **59295**

#	Actual time	Actual value	Planned time	Planned value
0	09APR2009 00:00:17.783448	65	09APR2009 00:00:17.783448	0
1	09APR2009 00:00:18.408470	65	09APR2009 00:00:18.408470	0
2	09APR2009 00:00:18.908447	65	09APR2009 00:00:18.908447	0
3	09APR2009 00:00:19.408464	65	09APR2009 00:00:19.408464	0
4	09APR2009 00:00:19.908442	65	09APR2009 00:00:19.908442	0
5	09APR2009 00:00:20.408459	65	09APR2009 00:00:20.408459	0
6	09APR2009 00:00:20.908476	65	09APR2009 00:00:20.908476	0
7	09APR2009 00:00:21.408454	65	09APR2009 00:00:21.408454	0
8	09APR2009 00:00:21.908471	65	09APR2009 00:00:21.908471	0
9	09APR2009 00:00:22.408448	65	09APR2009 00:00:22.408448	0
10	09APR2009 00:00:22.783461	65	09APR2009 00:00:22.783461	0
11	09APR2009 00:00:22.908466	65	09APR2009 00:00:22.908466	0
12	09APR2009 00:00:23.408443	65	09APR2009 00:00:23.408443	0
13	09APR2009 00:00:23.908460	65	09APR2009 00:00:23.908460	0
14	09APR2009 00:00:24.408437	65	09APR2009 00:00:24.408437	0
15	09APR2009 00:00:24.908455	65	09APR2009 00:00:24.908455	0
16	09APR2009 00:00:25.408472	65	09APR2009 00:00:25.408472	0
17	09APR2009 00:00:25.908449	65	09APR2009 00:00:25.908449	0
18	09APR2009 00:00:26.408467	65	09APR2009 00:00:26.408467	0
19	09APR2009 00:00:26.908444	65	09APR2009 00:00:26.908444	0
	...	...	...	...



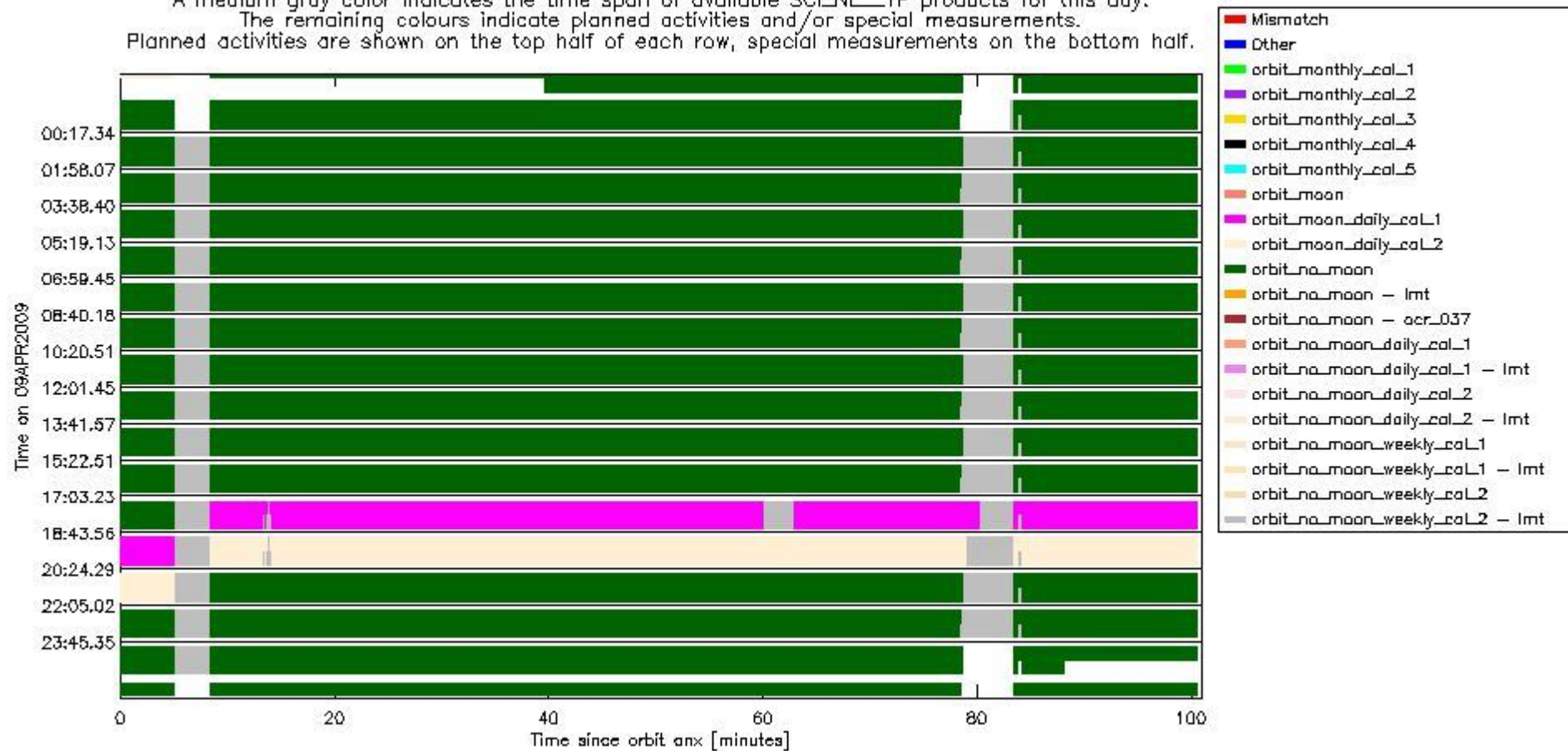
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090409\_5.PNG

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 09APR2009.  
 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\_20090409\_6.PNG

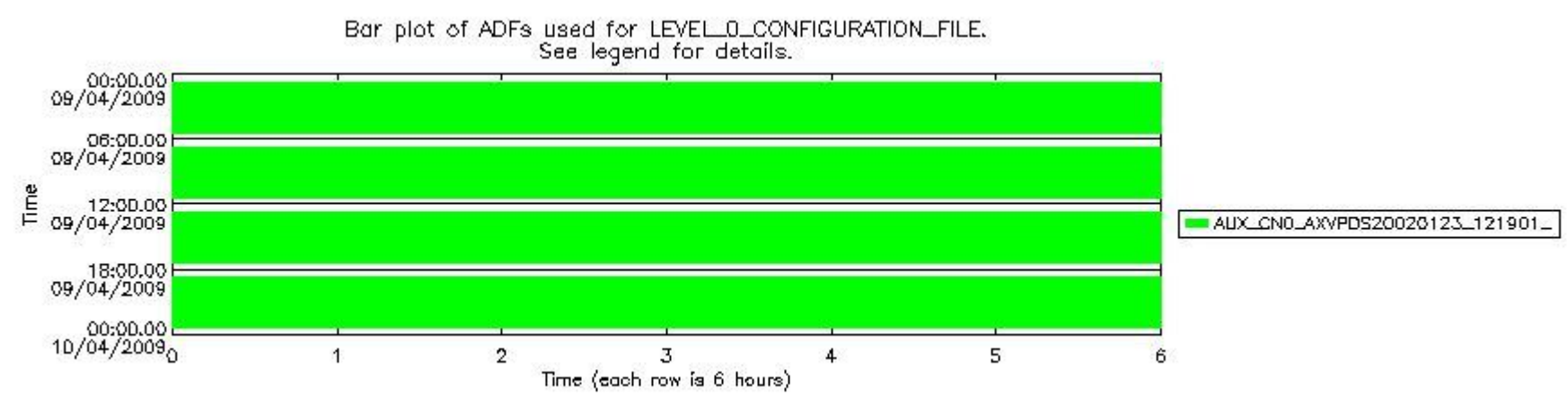
## 0.4 ADF monitoring

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

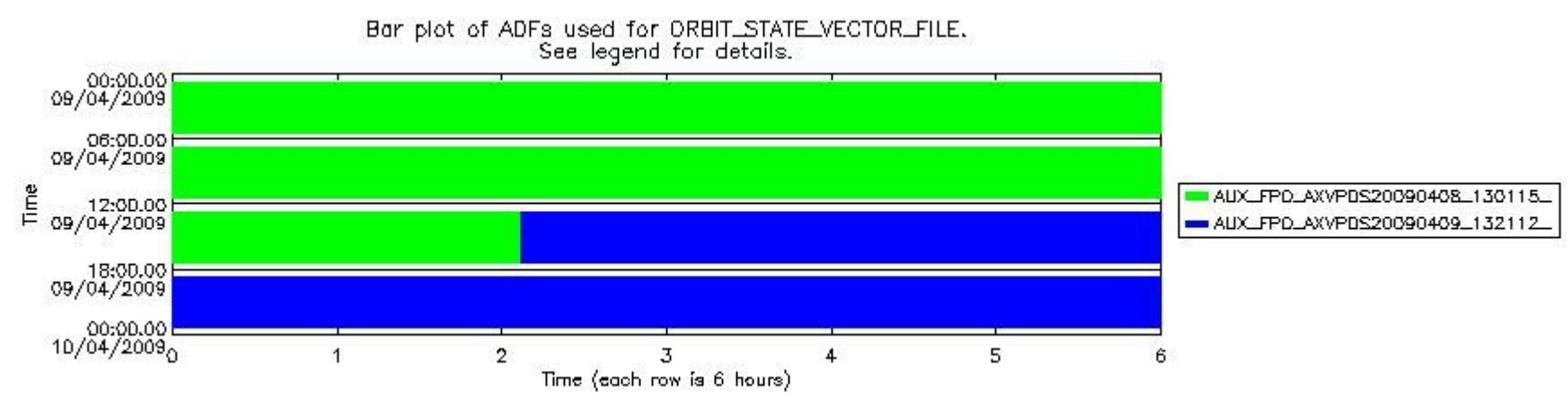
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

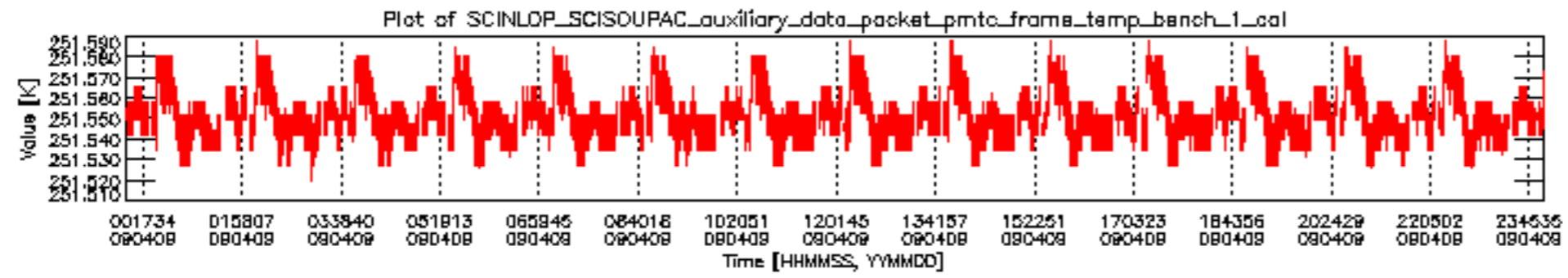
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090408_130115_20090407_194712_20090417_211326
2	AUX_FPO_AXVPDS20090409_132112_20090408_191535_20090418_204149



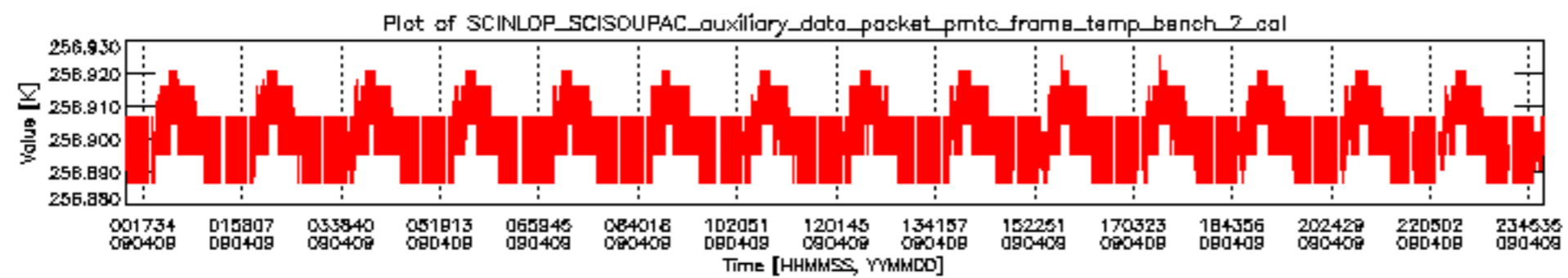
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090409\_7.PNG

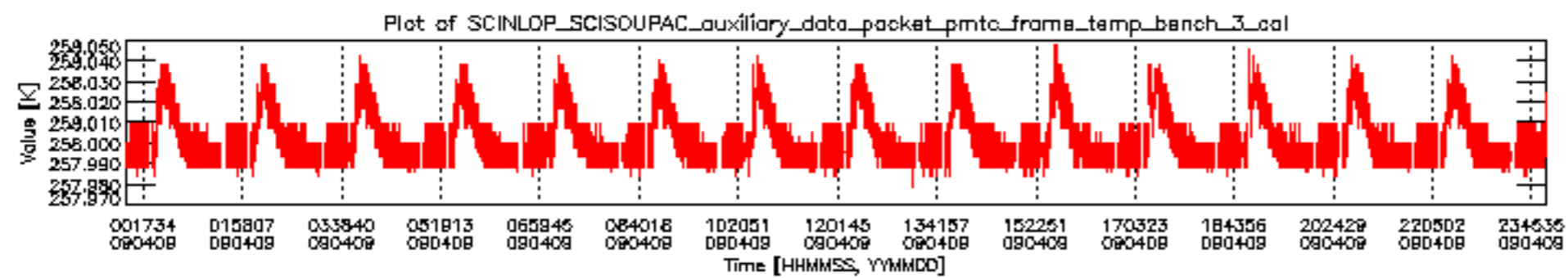


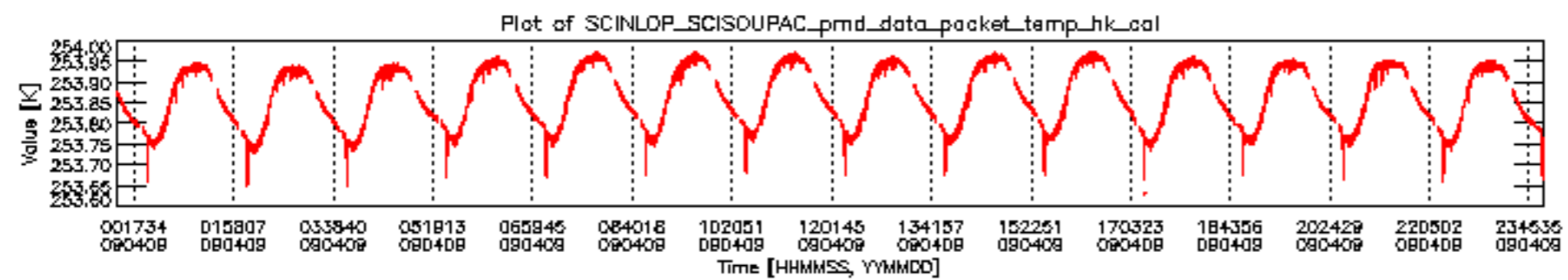
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090409\_8.PNG

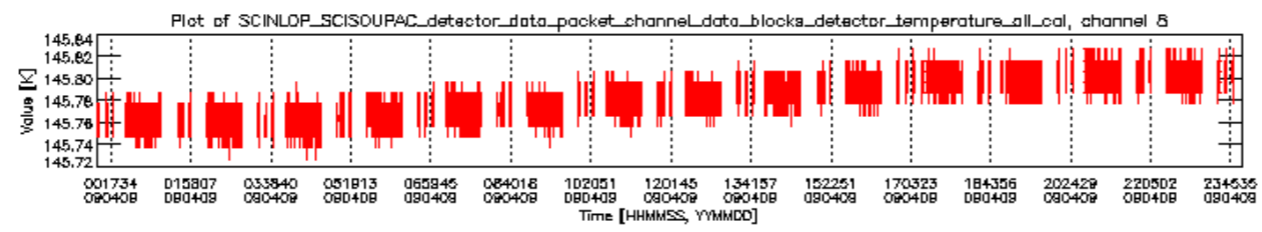
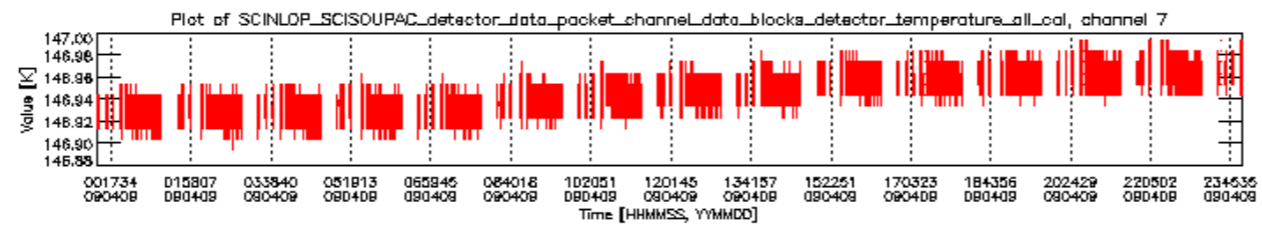
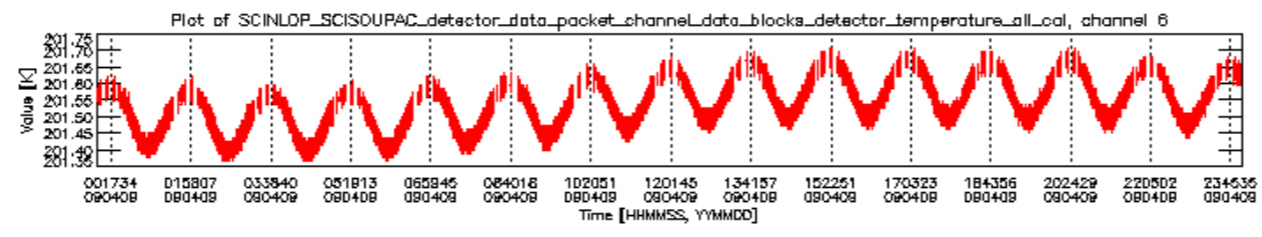
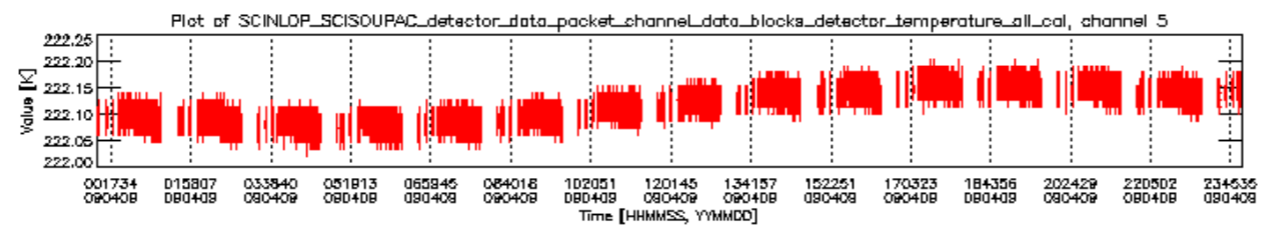
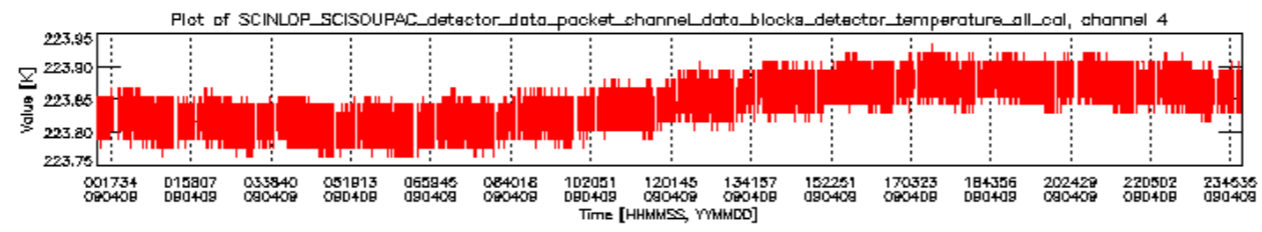
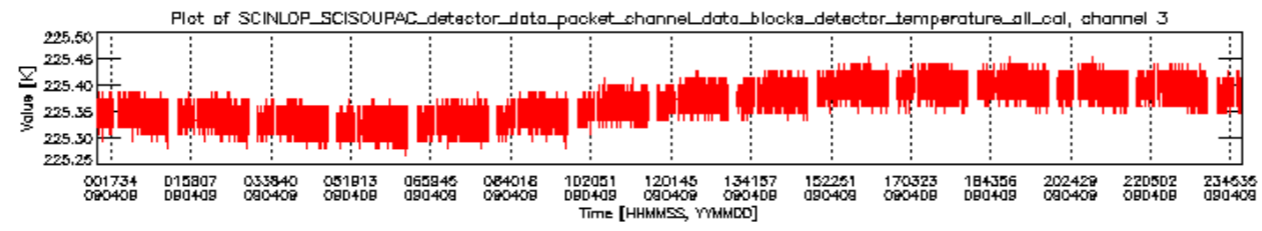
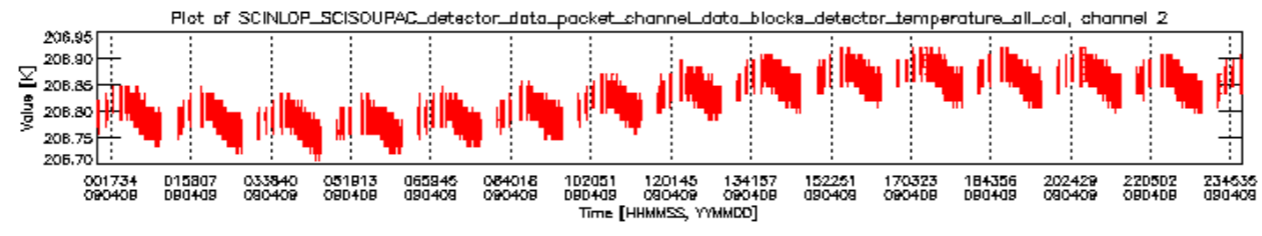
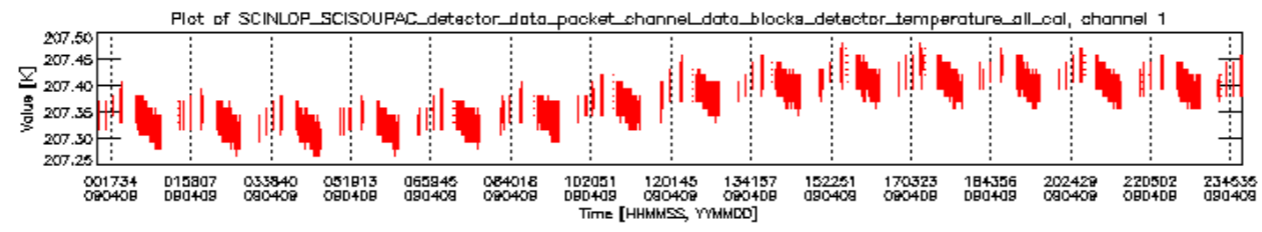
















Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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