

## 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	v1.4 20100407
Time of report generation	16NOV2010 03:08:42
Data source version	KSPT_L0/4504-N
Processing scope for products	09NOV2010 00:00:00 to 10NOV2010 00:00:00
Start time of first product within scope	09NOV2010 00:29:02
Stop time of last product within scope	10NOV2010 01:27:20
Total number of Level 0 products	16
Number of Level 0 products with errors	2

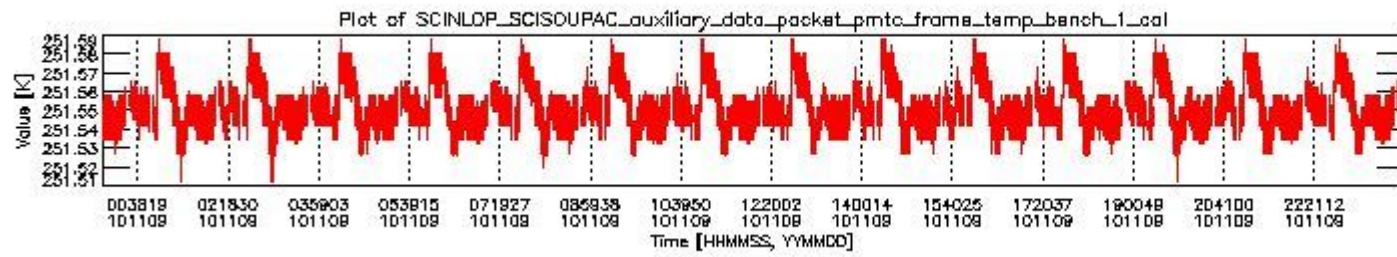
### 0.1.2 Summary per product

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

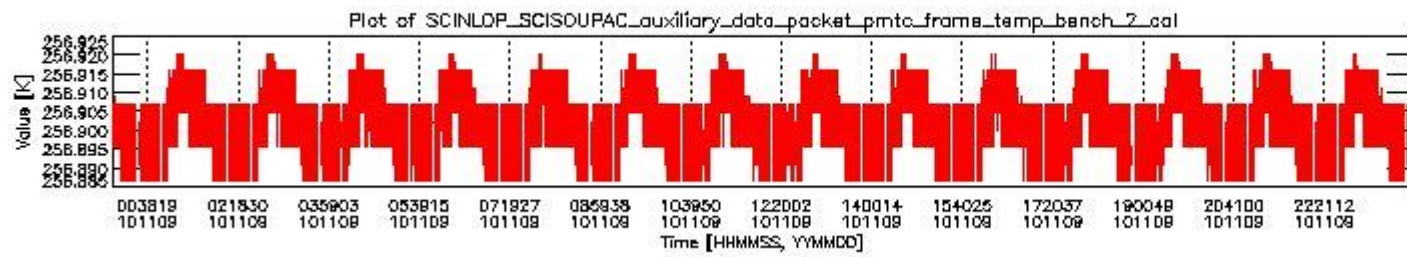
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20101109_002902_000056973096_00174_45447_1868.N1	09NOV2010 00:29:02	09NOV2010 02:03:59	0	0	0	0	0
1	SCI_NL__OPNPDE20101109_020250_000044843096_00175_45448_1869.N1	09NOV2010 02:02:50	09NOV2010 03:17:34	0	0	0	0	0
2	SCI_NL__OPNPDE20101109_031734_000061913096_00176_45449_1870.N1	09NOV2010 03:17:34	09NOV2010 05:00:46	0	0	0	0	0
3	SCI_NL__OPNPDE20101109_045937_000060293096_00177_45450_1871.N1	09NOV2010 04:59:37	09NOV2010 06:40:06	0	0	0	0	0
4	SCI_NL__OPNPDK20101109_064006_000039133096_00178_45451_2920.N1	09NOV2010 06:40:06	09NOV2010 07:45:19	1	1	0	0	0
5	SCI_NL__OPNPDK20101109_074425_000061373096_00179_45452_2921.N1	09NOV2010 07:44:25	09NOV2010 09:26:42	1	1	0	0	0
6	SCI_NL__OPNPDK20101109_092548_000061913096_00180_45453_2922.N1	09NOV2010 09:25:48	09NOV2010 11:08:59	0	0	0	0	0
7	SCI_NL__OPNPDK20101109_110657_000060143096_00181_45454_2923.N1	09NOV2010 11:06:57	09NOV2010 12:47:11	0	0	0	0	0
8	SCI_NL__OPNPDK20101109_124617_000058923096_00182_45455_2924.N1	09NOV2010 12:46:17	09NOV2010 14:24:28	0	0	0	0	0
9	SCI_NL__OPNPDK20101109_142334_000059603096_00183_45456_2925.N1	09NOV2010 14:23:34	09NOV2010 16:02:54	0	0	0	0	0
10	SCI_NL__OPNPDK20101109_160037_000059593096_00184_45457_2926.N1	09NOV2010 16:00:37	09NOV2010 17:39:56	0	0	0	0	0
11	SCI_NL__OPNPDK20101109_173902_000059603096_00185_45458_2927.N1	09NOV2010 17:39:02	09NOV2010 19:18:22	0	0	0	0	0
12	SCI_NL__OPNPDK20101109_191728_000061233096_00186_45459_2928.N1	09NOV2010 19:17:28	09NOV2010 20:59:31	0	0	0	0	0
13	SCI_NL__OPNPDE20101109_205836_000040953096_00187_45460_1872.N1	09NOV2010 20:58:36	09NOV2010 22:06:52	0	0	0	0	0
14	SCI_NL__OPNPDE20101109_221209_000057113096_00187_45460_1873.N1	09NOV2010 22:12:09	09NOV2010 23:47:21	0	0	0	0	0
15	SCI_NL__OPNPDE20101109_235224_000056973096_00188_45461_1874.N1	09NOV2010 23:52:24	10NOV2010 01:27:20	0	0	0	0	0

## 0.2 Product Quality Indicators

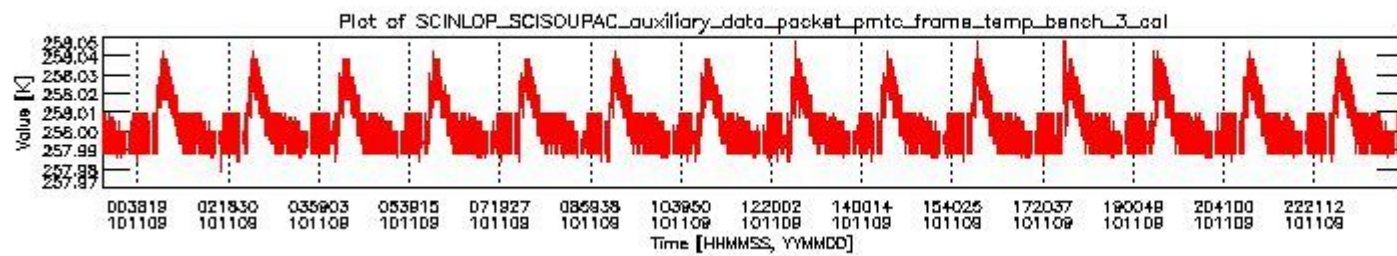
This section shows information about product quality, currently temperatures.



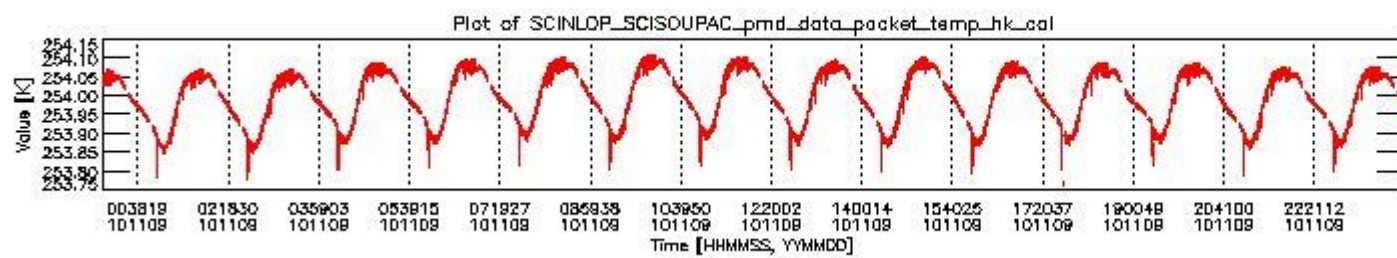
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101109\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101109\_1.PNG

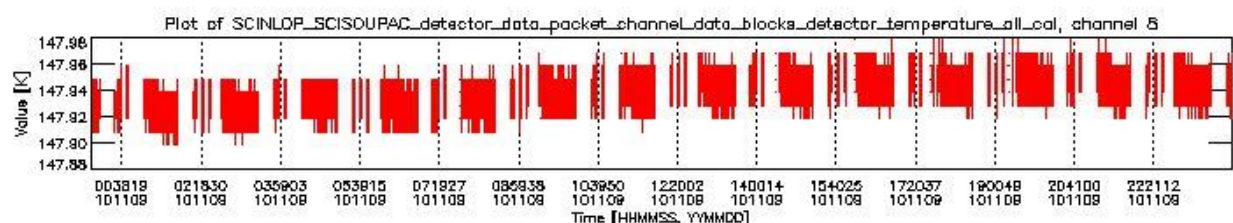
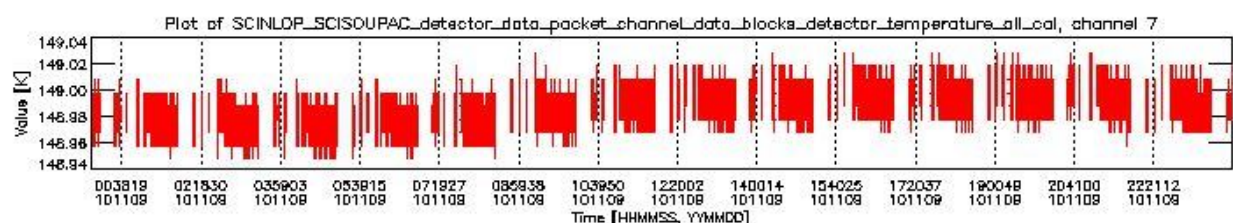
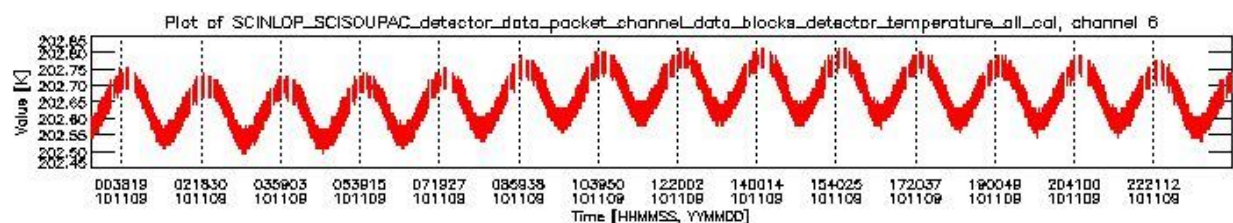
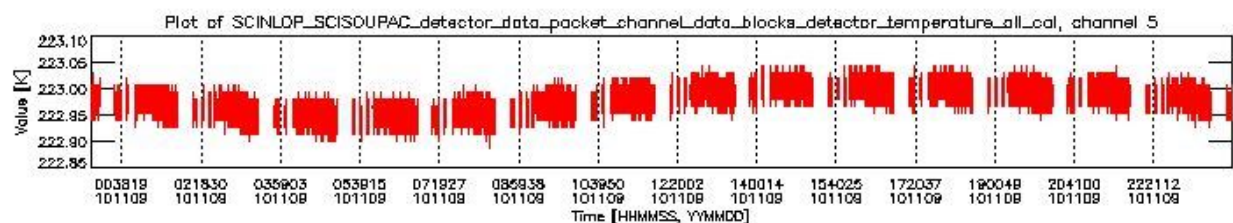
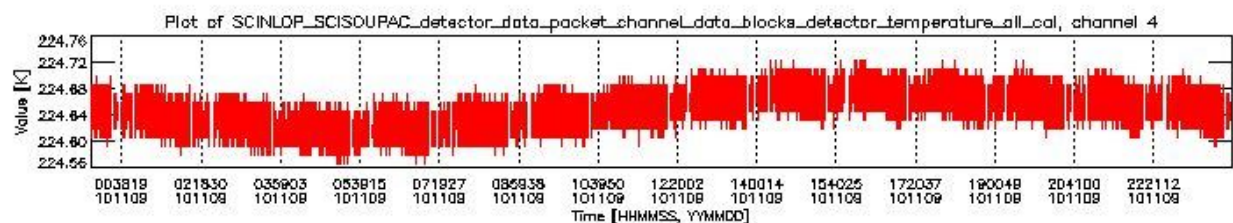
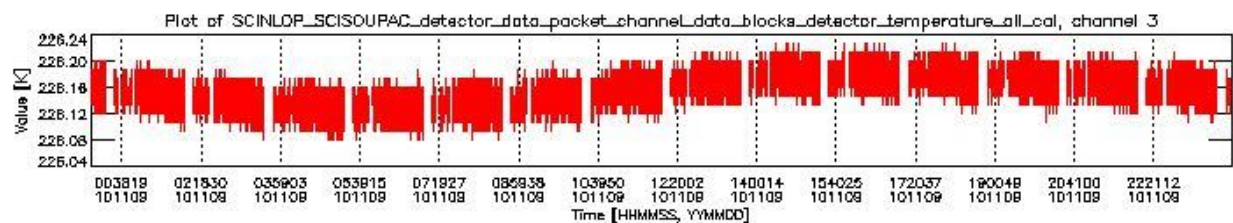
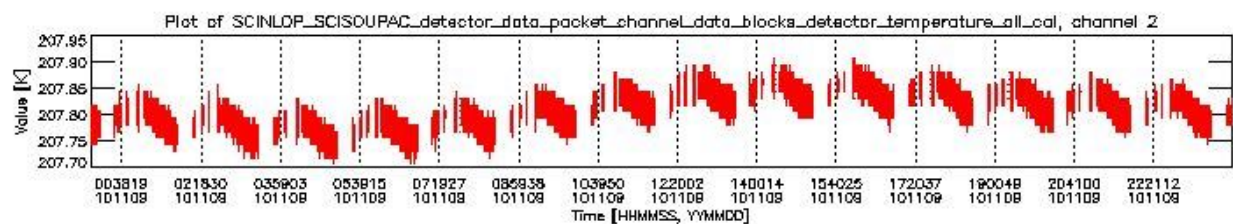
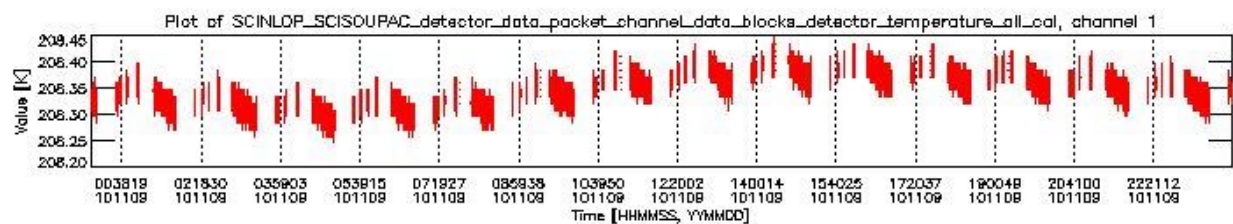


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101109\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101109\_3.PNG



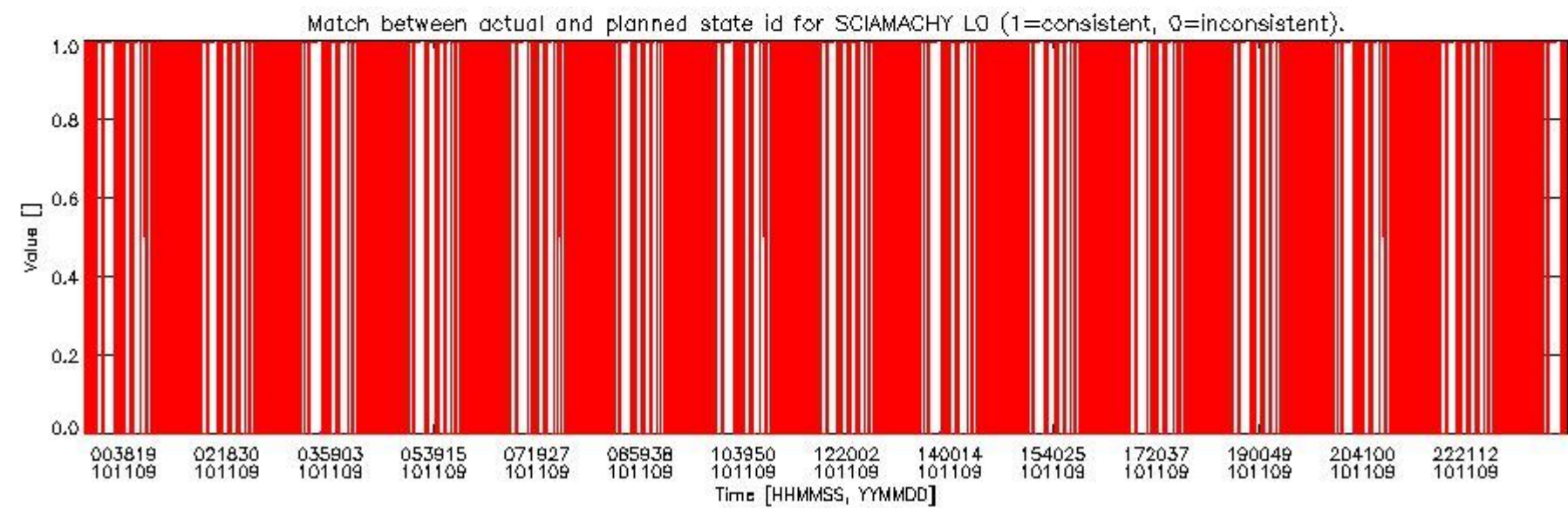
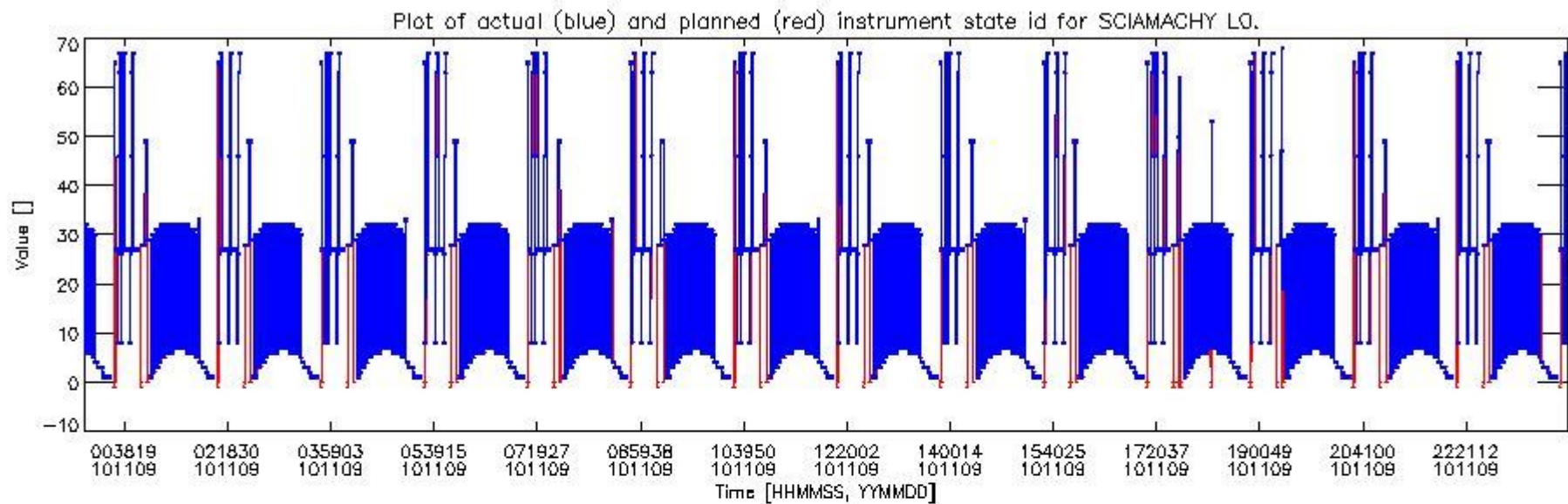


### 0.3 State monitoring

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: **29209**

#	Actual time	Actual value	Planned time	Planned value
0	09NOV2010 00:00:02.917792	6	09NOV2010 00:00:02.917792	32
1	09NOV2010 00:00:03.292792	6	09NOV2010 00:00:03.292792	32
2	09NOV2010 00:00:03.542792	6	09NOV2010 00:00:03.542792	32
3	09NOV2010 00:00:03.792792	6	09NOV2010 00:00:03.792792	32
4	09NOV2010 00:00:04.042792	6	09NOV2010 00:00:04.042792	32
5	09NOV2010 00:00:04.292792	6	09NOV2010 00:00:04.292792	32
6	09NOV2010 00:00:04.542792	6	09NOV2010 00:00:04.542792	32
7	09NOV2010 00:00:04.792792	6	09NOV2010 00:00:04.792792	32
8	09NOV2010 00:00:05.042792	6	09NOV2010 00:00:05.042792	32
9	09NOV2010 00:00:05.292792	6	09NOV2010 00:00:05.292792	32
10	09NOV2010 00:00:05.542792	6	09NOV2010 00:00:05.542792	32
11	09NOV2010 00:00:05.792792	6	09NOV2010 00:00:05.792792	32
12	09NOV2010 00:00:06.042792	6	09NOV2010 00:00:06.042792	32
13	09NOV2010 00:00:06.292792	6	09NOV2010 00:00:06.292792	32
14	09NOV2010 00:00:06.542792	6	09NOV2010 00:00:06.542792	32
15	09NOV2010 00:00:06.792792	6	09NOV2010 00:00:06.792792	32
16	09NOV2010 00:00:07.042792	6	09NOV2010 00:00:07.042792	32
17	09NOV2010 00:00:07.292792	6	09NOV2010 00:00:07.292792	32
18	09NOV2010 00:00:07.542792	6	09NOV2010 00:00:07.542792	32
19	09NOV2010 00:00:07.792792	6	09NOV2010 00:00:07.792792	32
	...	...	...	...



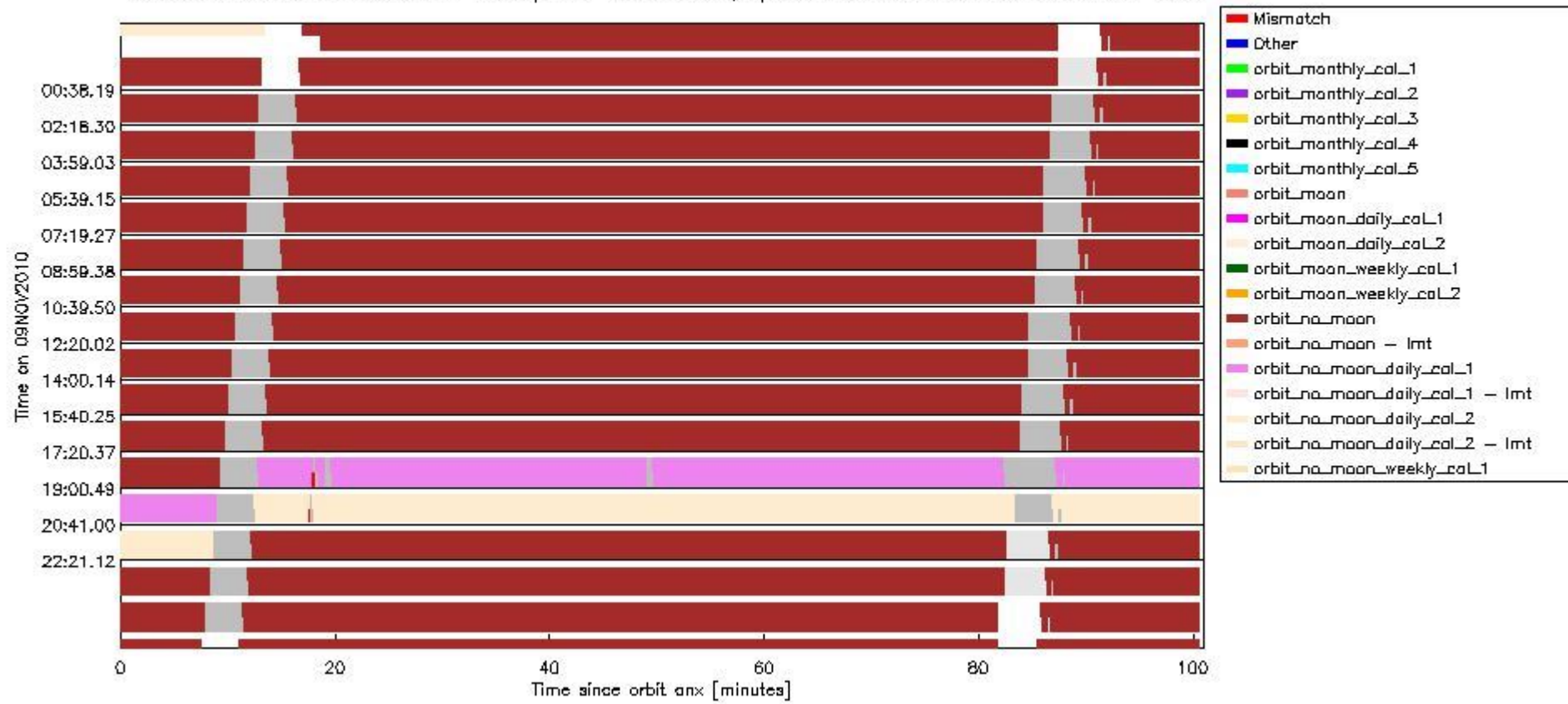
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101109\_5.PNG

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 09NOV2010.  
 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\_4504\_N\_20101109\_6.PNG

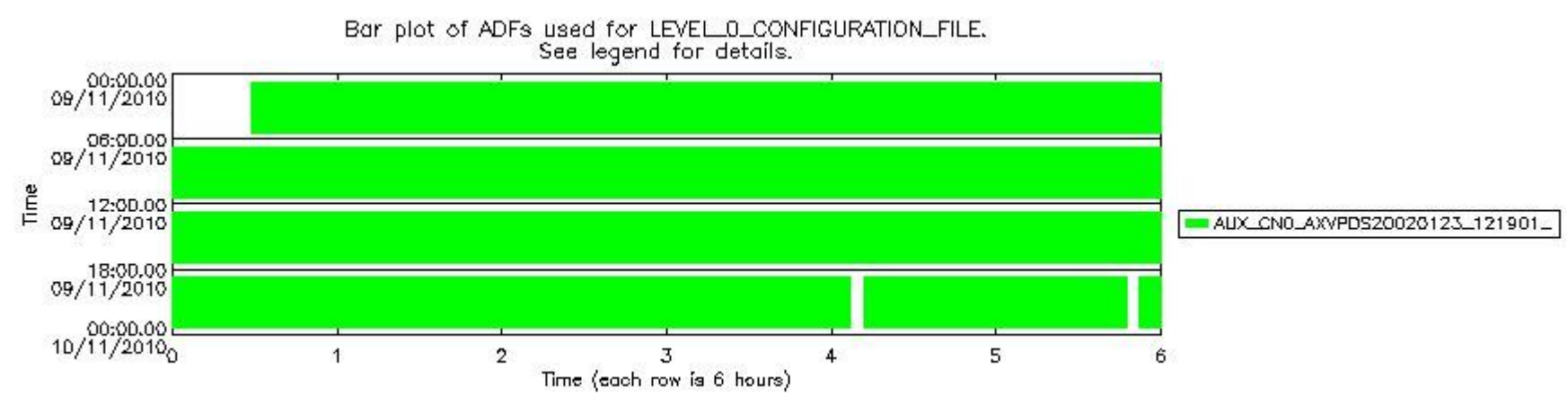
## 0.4 ADF monitoring

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

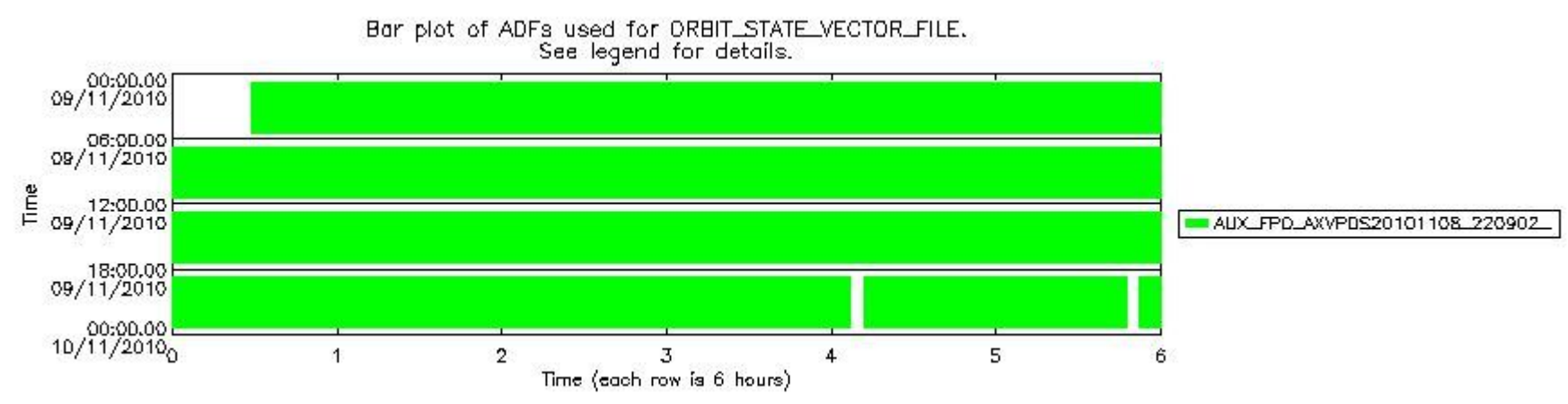
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

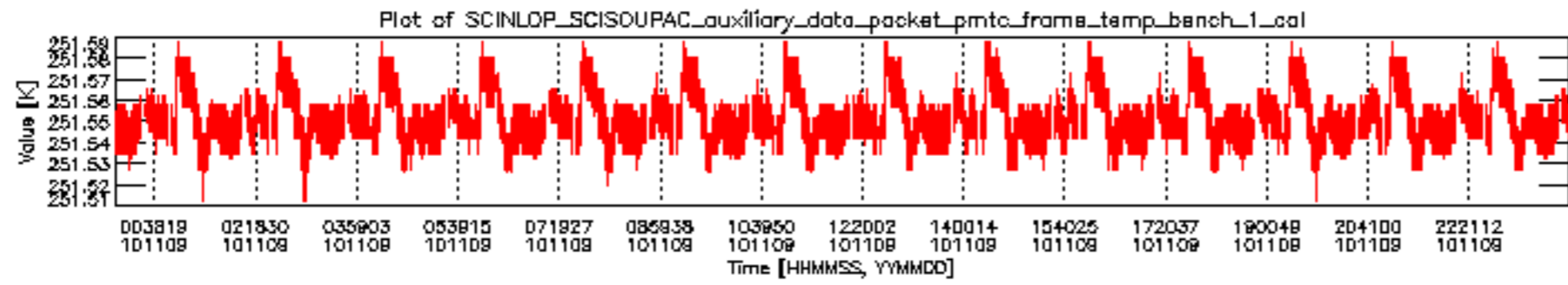
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20101108_220902_20101108_193740_20101118_201121



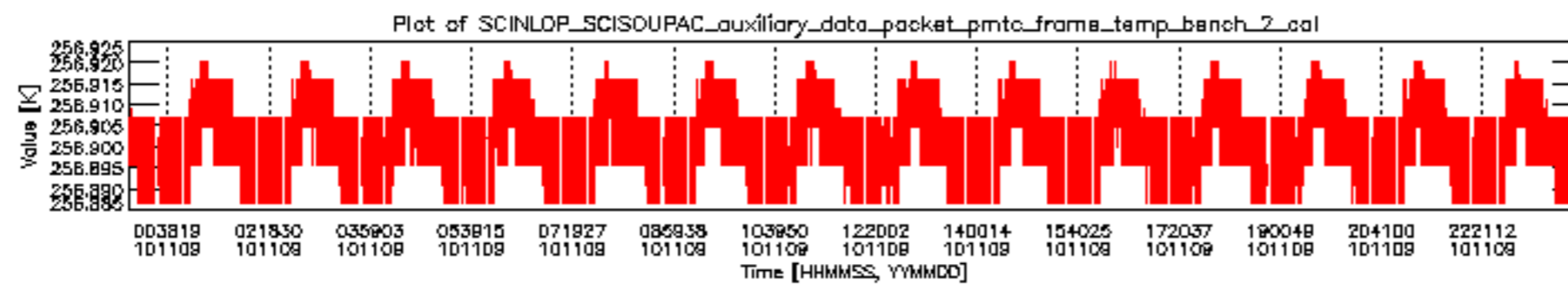
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101109\_7.PNG

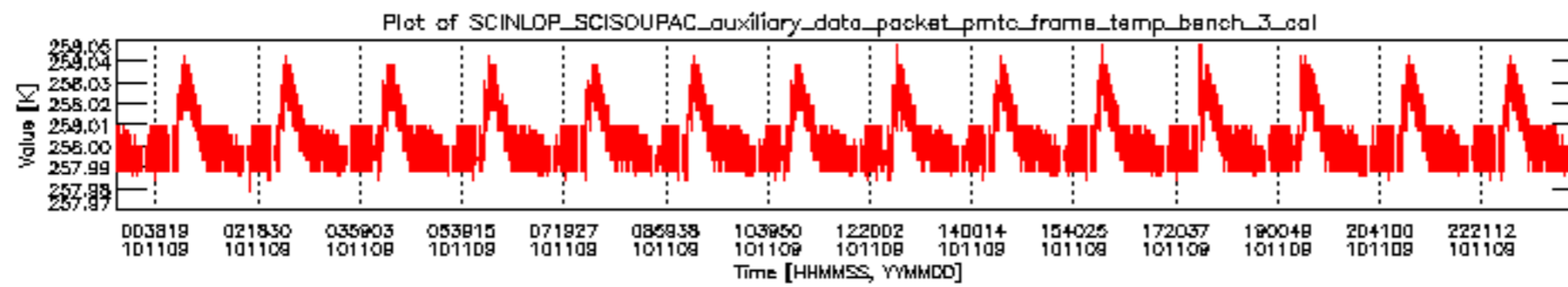


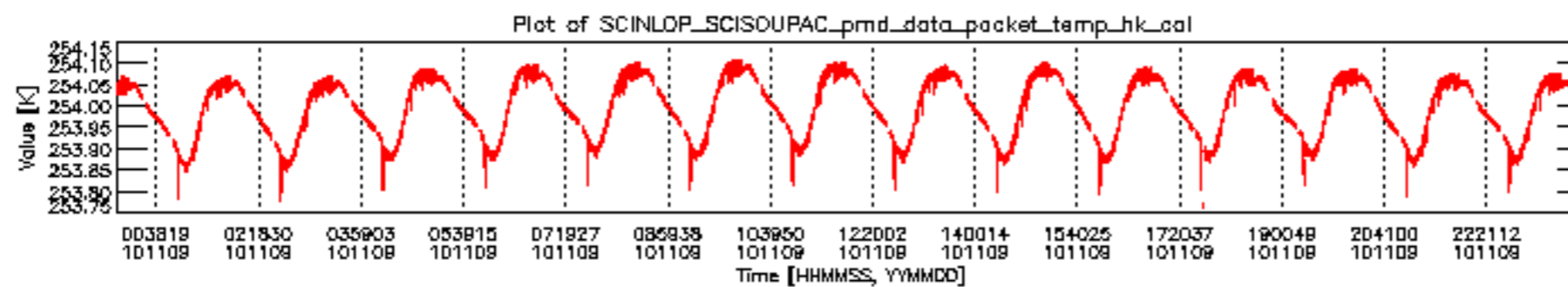
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101109\_8.PNG

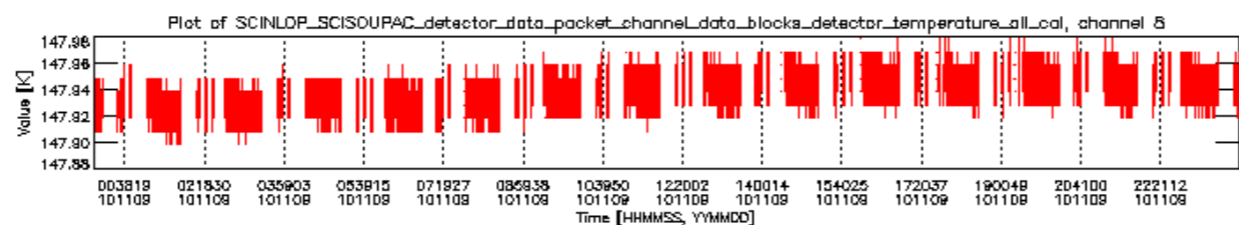
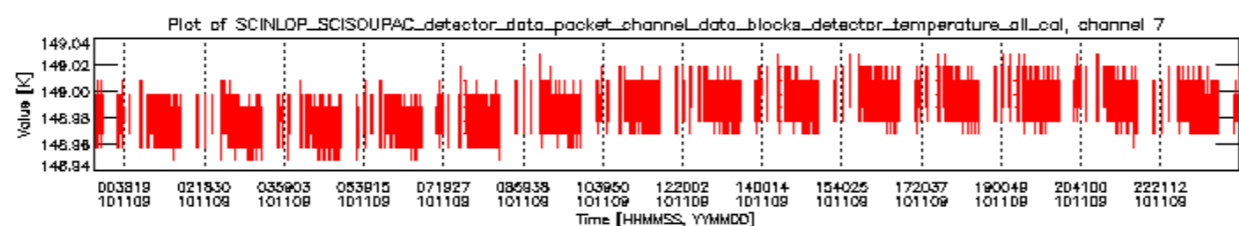
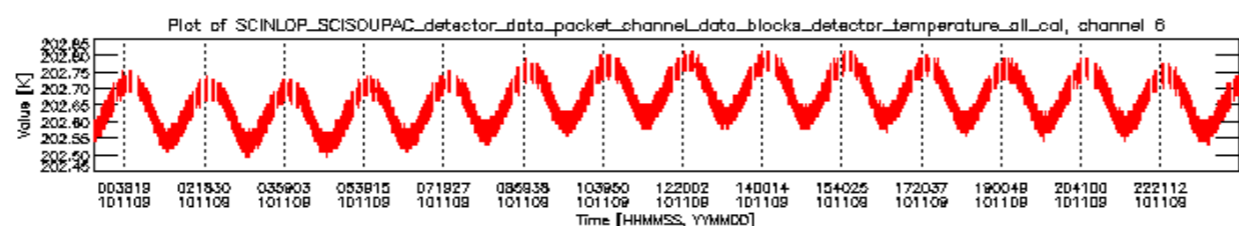
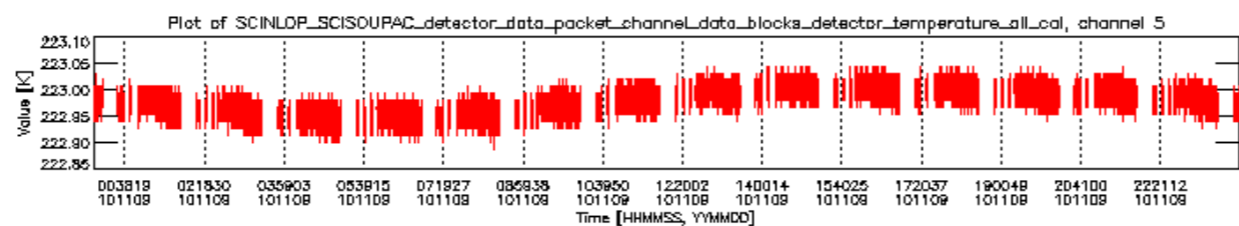
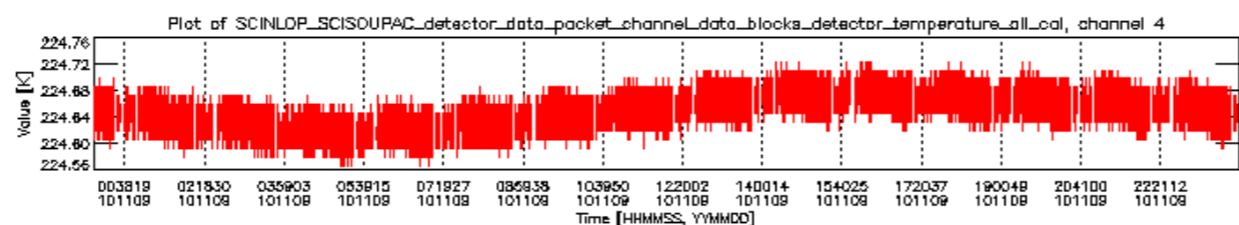
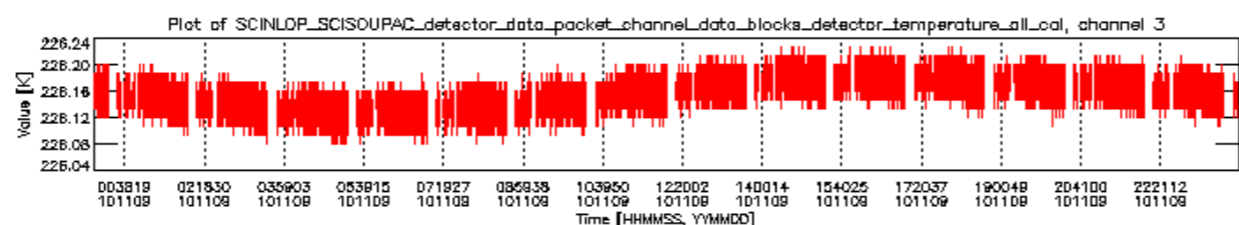
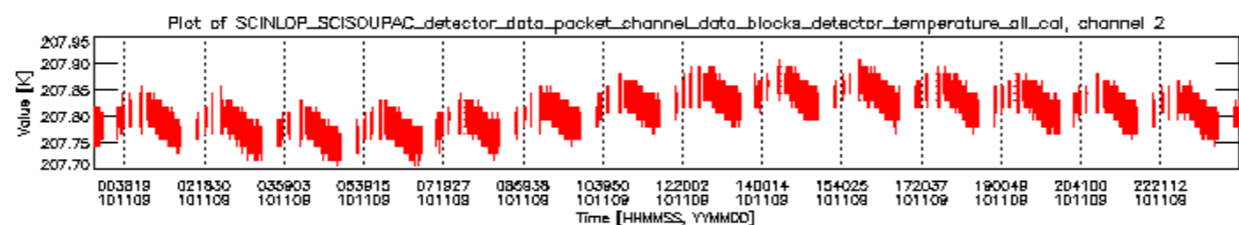
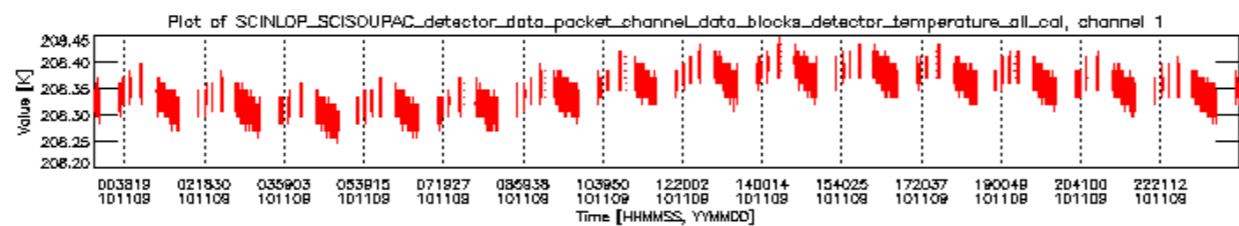
















Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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