

## 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	24NOV2008 05:40:23
Data source version	KSPT_L0/4303-N
Processing scope for products	20NOV2008 00:00:00 to 21NOV2008 00:00:00
Start time of first product within scope	19NOV2008 22:22:31
Stop time of last product within scope	21NOV2008 01:12:11
Total number of level 0 products	17
Number of level 0 products with errors	0

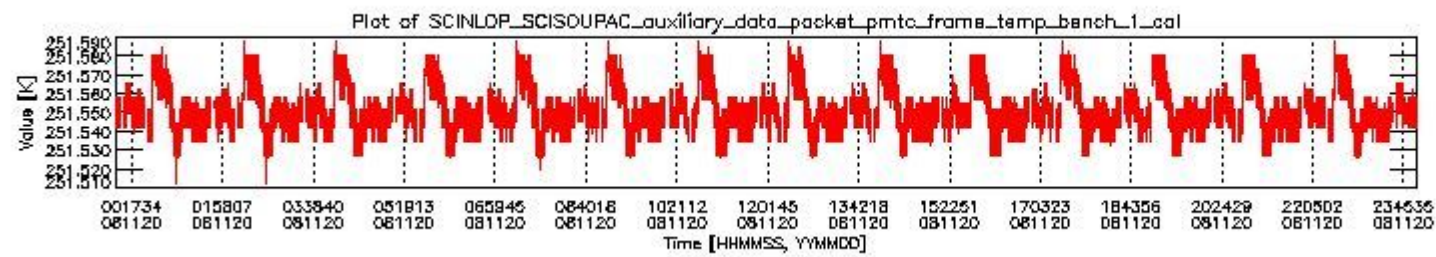
### 0.1.2 Summary per product

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

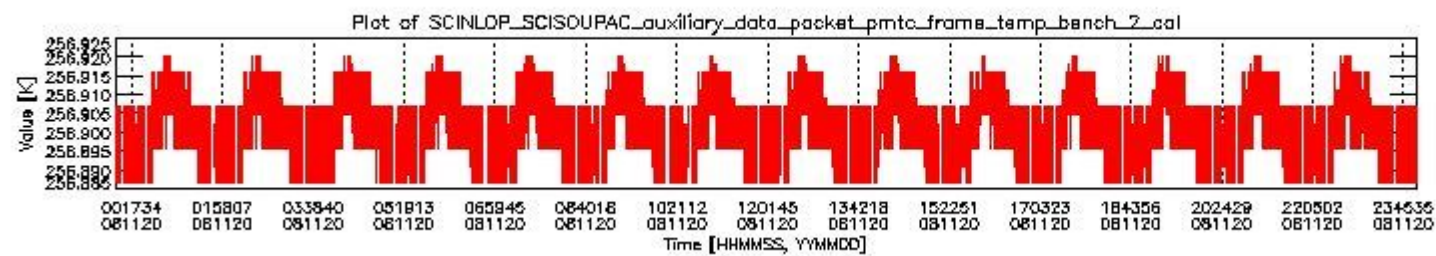
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081119_222231_000060232074_00029_35153_7936.N1	19NOV2008 22:22:31	20NOV2008 00:02:54	0	0	0	0	0
1	SCI_NL__OPNPDE20081120_000900_000056832074_00030_35154_7937.N1	20NOV2008 00:09:00	20NOV2008 01:43:43	0	0	0	0	0
2	SCI_NL__OPNPDE20081120_014235_000044802074_00031_35155_7938.N1	20NOV2008 01:42:35	20NOV2008 02:57:14	0	0	0	0	0
3	SCI_NL__OPNPDE20081120_025606_000062292074_00032_35156_7939.N1	20NOV2008 02:56:06	20NOV2008 04:39:55	0	0	0	0	0
4	SCI_NL__OPNPDE20081120_043955_000060362074_00033_35157_7940.N1	20NOV2008 04:39:55	20NOV2008 06:20:31	0	0	0	0	0
5	SCI_NL__OPNPDK20081120_061923_000040582074_00034_35158_9979.N1	20NOV2008 06:19:23	20NOV2008 07:27:01	0	0	0	0	0
6	SCI_NL__OPNPDK20081120_072701_000060922074_00035_35159_9980.N1	20NOV2008 07:27:01	20NOV2008 09:08:33	0	0	0	0	0
7	SCI_NL__OPNPDK20081120_090724_000061052074_00036_35160_9981.N1	20NOV2008 09:07:24	20NOV2008 10:49:09	0	0	0	0	0
8	SCI_NL__OPNPDK20081120_104813_000058002074_00037_35161_9982.N1	20NOV2008 10:48:13	20NOV2008 12:24:53	0	0	0	0	0
9	SCI_NL__OPNPDK20081120_122235_000062862074_00038_35162_9983.N1	20NOV2008 12:22:35	20NOV2008 14:07:21	0	0	0	0	0
10	SCI_NL__OPNPDK20081120_140625_000058432074_00039_35163_9984.N1	20NOV2008 14:06:25	20NOV2008 15:43:48	0	0	0	0	0
11	SCI_NL__OPNPDK20081120_154348_000059792074_00040_35164_9985.N1	20NOV2008 15:43:48	20NOV2008 17:23:27	0	0	0	0	0
12	SCI_NL__OPNPDK20081120_172136_000060362074_00041_35165_9986.N1	20NOV2008 17:21:36	20NOV2008 19:02:12	0	0	0	0	0
13	SCI_NL__OPNPDK20081120_190116_000060362074_00042_35166_9987.N1	20NOV2008 19:01:16	20NOV2008 20:41:52	0	0	0	0	0
14	SCI_NL__OPNPDE20081120_204152_000041462074_00043_35167_7941.N1	20NOV2008 20:41:52	20NOV2008 21:50:58	0	0	0	0	0
15	SCI_NL__OPNPDE20081120_215058_000060232074_00043_35167_7942.N1	20NOV2008 21:50:58	20NOV2008 23:31:22	0	0	0	0	0
16	SCI_NL__OPNPDE20081120_233728_000056832074_00044_35168_7943.N1	20NOV2008 23:37:28	21NOV2008 01:12:11	0	0	0	0	0

## 0.2 Product Quality Indicators

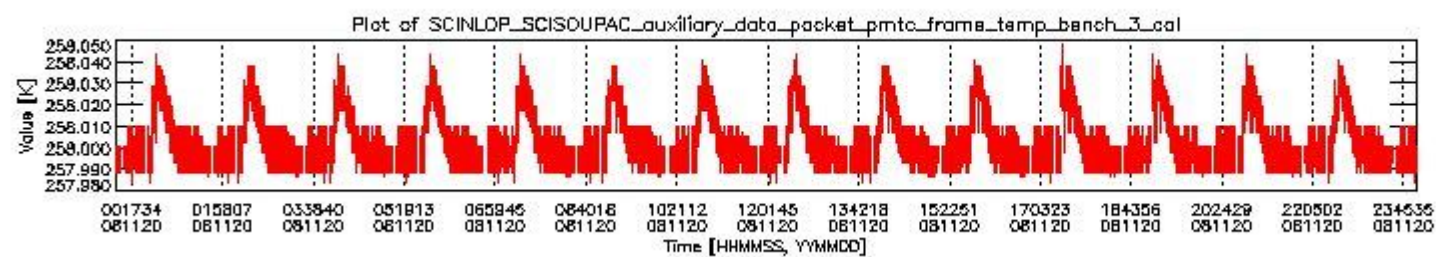
This section shows information about product quality, currently temperatures.



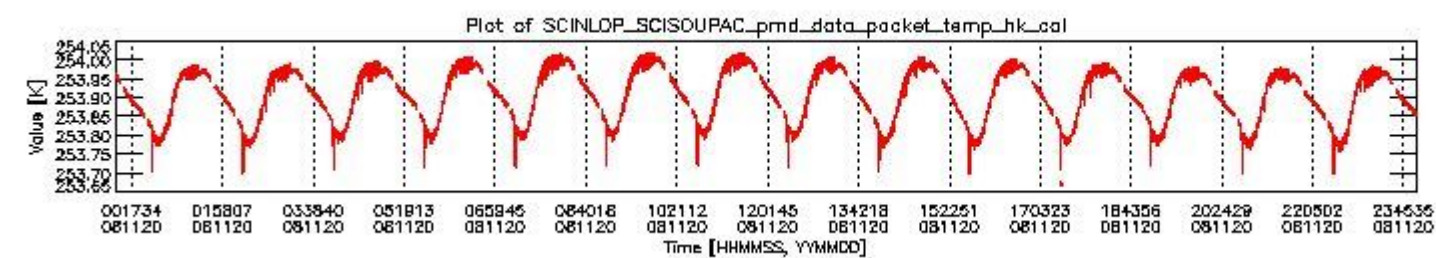
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081120\_0.PNG



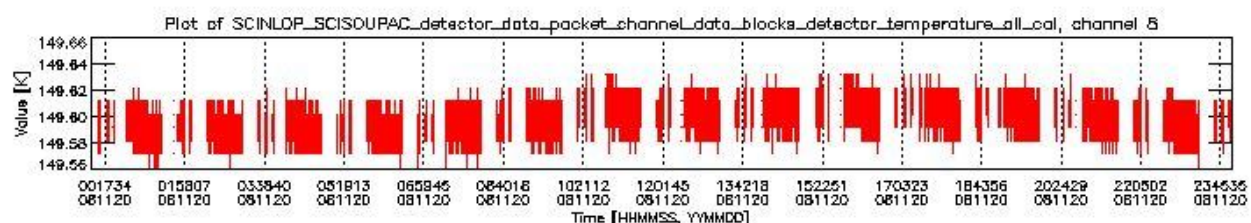
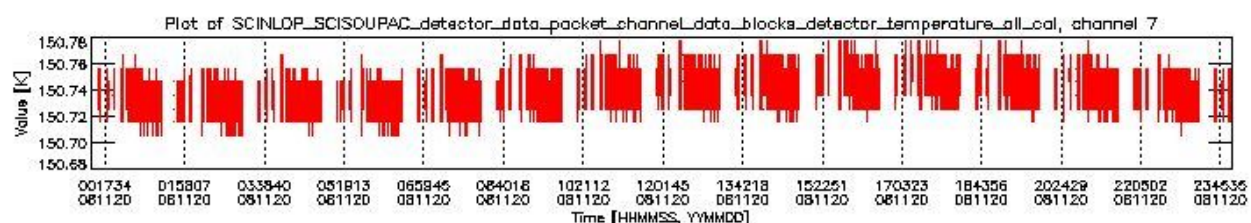
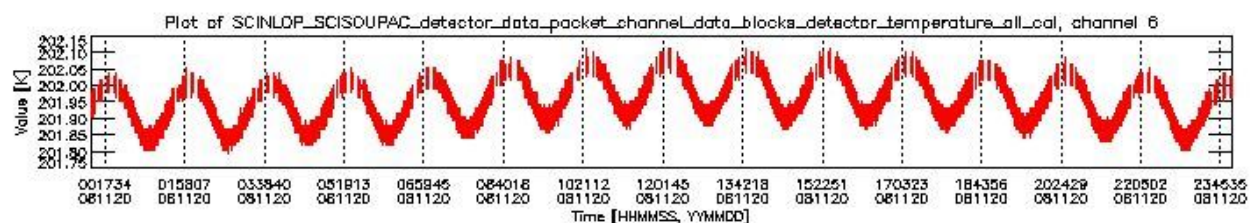
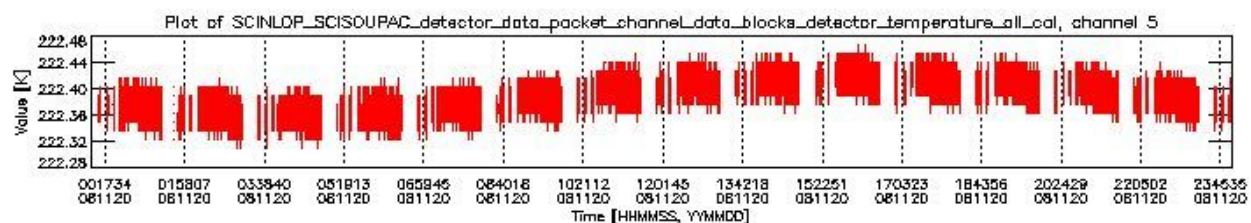
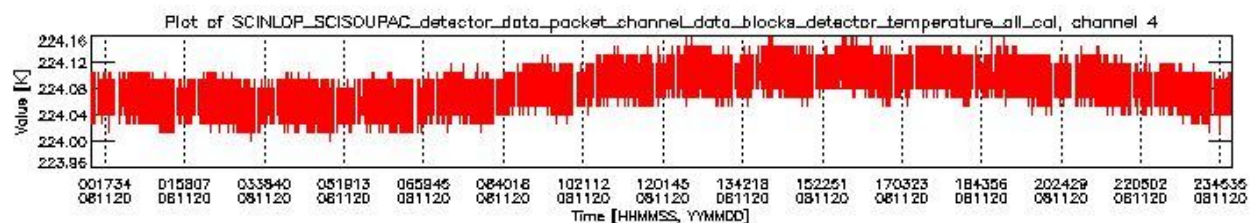
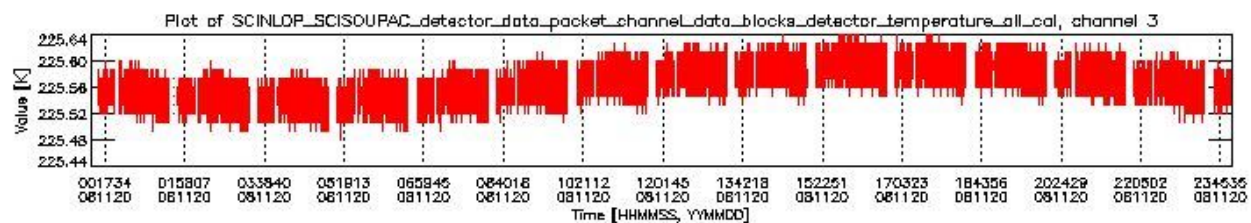
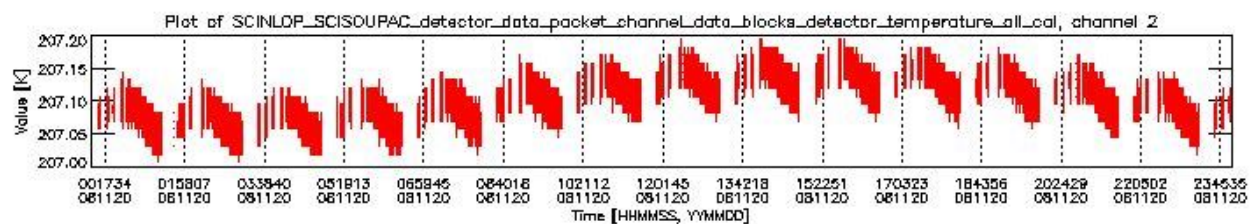
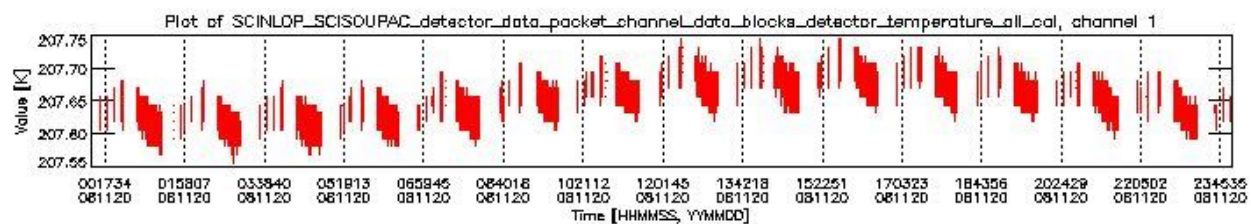
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081120\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081120\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081120\_3.PNG

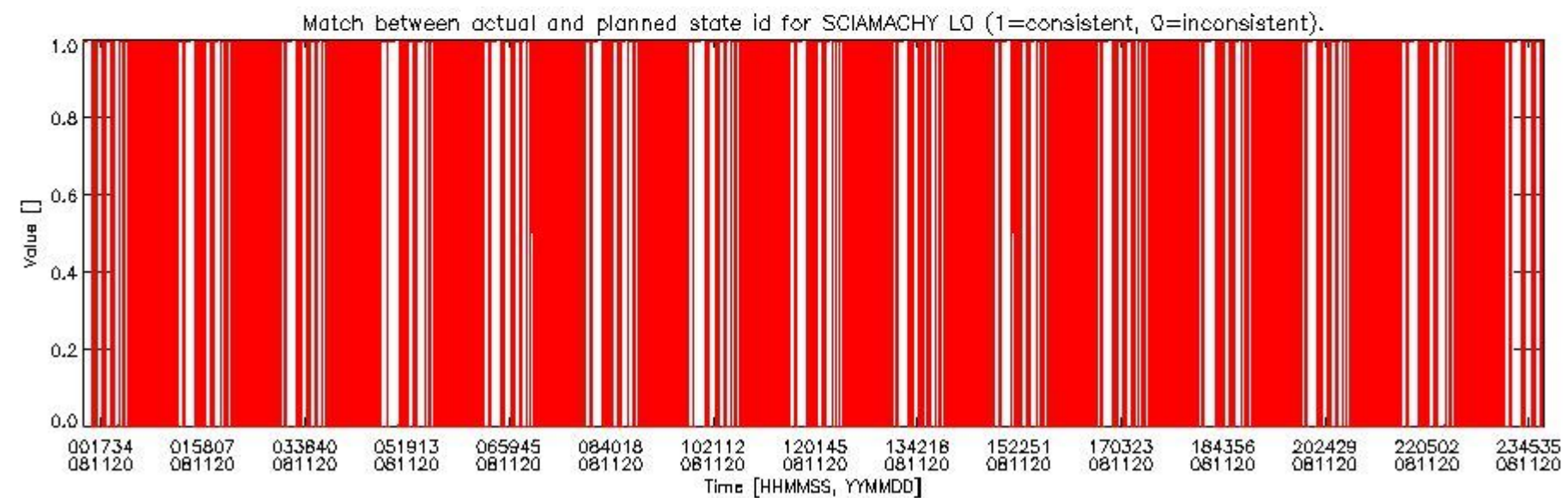
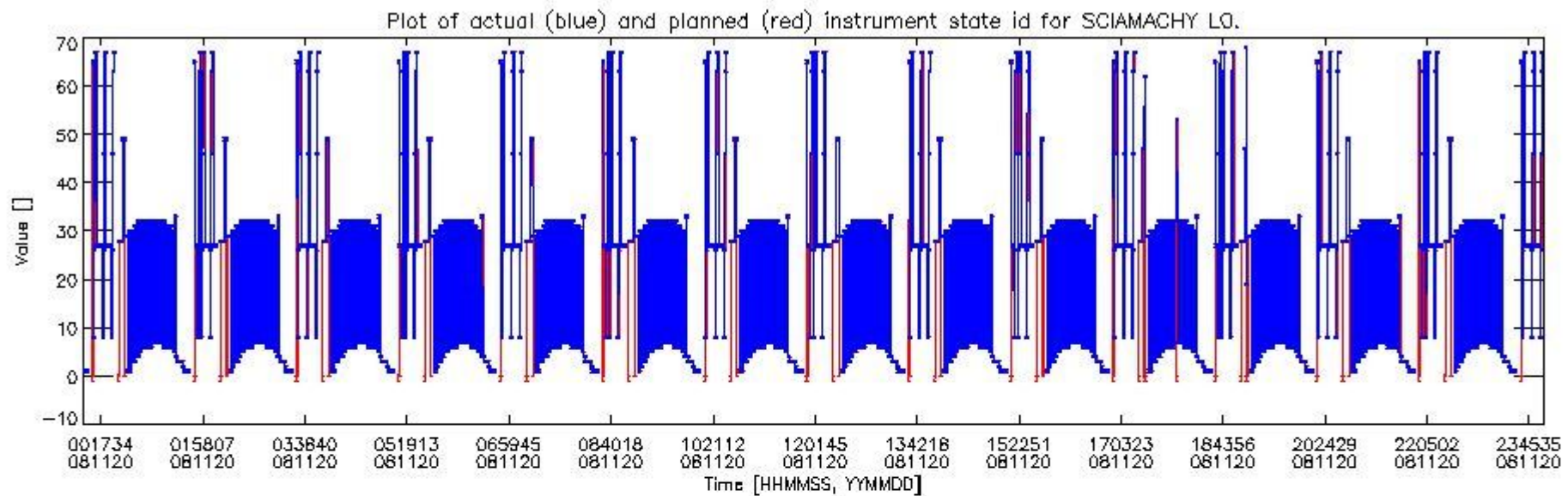


### 0.3 State monitoring

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: **58683**

#	Actual time	Actual value	Planned time	Planned value
0	20NOV2008 00:09:00.464419	65	20NOV2008 00:09:00.464419	0
1	20NOV2008 00:09:01.089441	65	20NOV2008 00:09:01.089441	0
2	20NOV2008 00:09:01.589418	65	20NOV2008 00:09:01.589418	0
3	20NOV2008 00:09:02.089435	65	20NOV2008 00:09:02.089435	0
4	20NOV2008 00:09:02.589413	65	20NOV2008 00:09:02.589413	0
5	20NOV2008 00:09:03.089430	65	20NOV2008 00:09:03.089430	0
6	20NOV2008 00:09:03.589447	65	20NOV2008 00:09:03.589447	0
7	20NOV2008 00:09:04.089425	65	20NOV2008 00:09:04.089425	0
8	20NOV2008 00:09:04.589442	65	20NOV2008 00:09:04.589442	0
9	20NOV2008 00:09:05.089419	65	20NOV2008 00:09:05.089419	0
10	20NOV2008 00:09:05.464432	65	20NOV2008 00:09:05.464432	0
11	20NOV2008 00:09:05.589437	65	20NOV2008 00:09:05.589437	0
12	20NOV2008 00:09:06.089414	65	20NOV2008 00:09:06.089414	0
13	20NOV2008 00:09:06.589431	65	20NOV2008 00:09:06.589431	0
14	20NOV2008 00:09:07.089408	65	20NOV2008 00:09:07.089408	0
15	20NOV2008 00:09:07.589426	65	20NOV2008 00:09:07.589426	0
16	20NOV2008 00:09:08.089443	65	20NOV2008 00:09:08.089443	0
17	20NOV2008 00:09:08.589420	65	20NOV2008 00:09:08.589420	0
18	20NOV2008 00:09:09.089438	65	20NOV2008 00:09:09.089438	0
19	20NOV2008 00:09:09.589415	65	20NOV2008 00:09:09.589415	0
	...	...	...	...

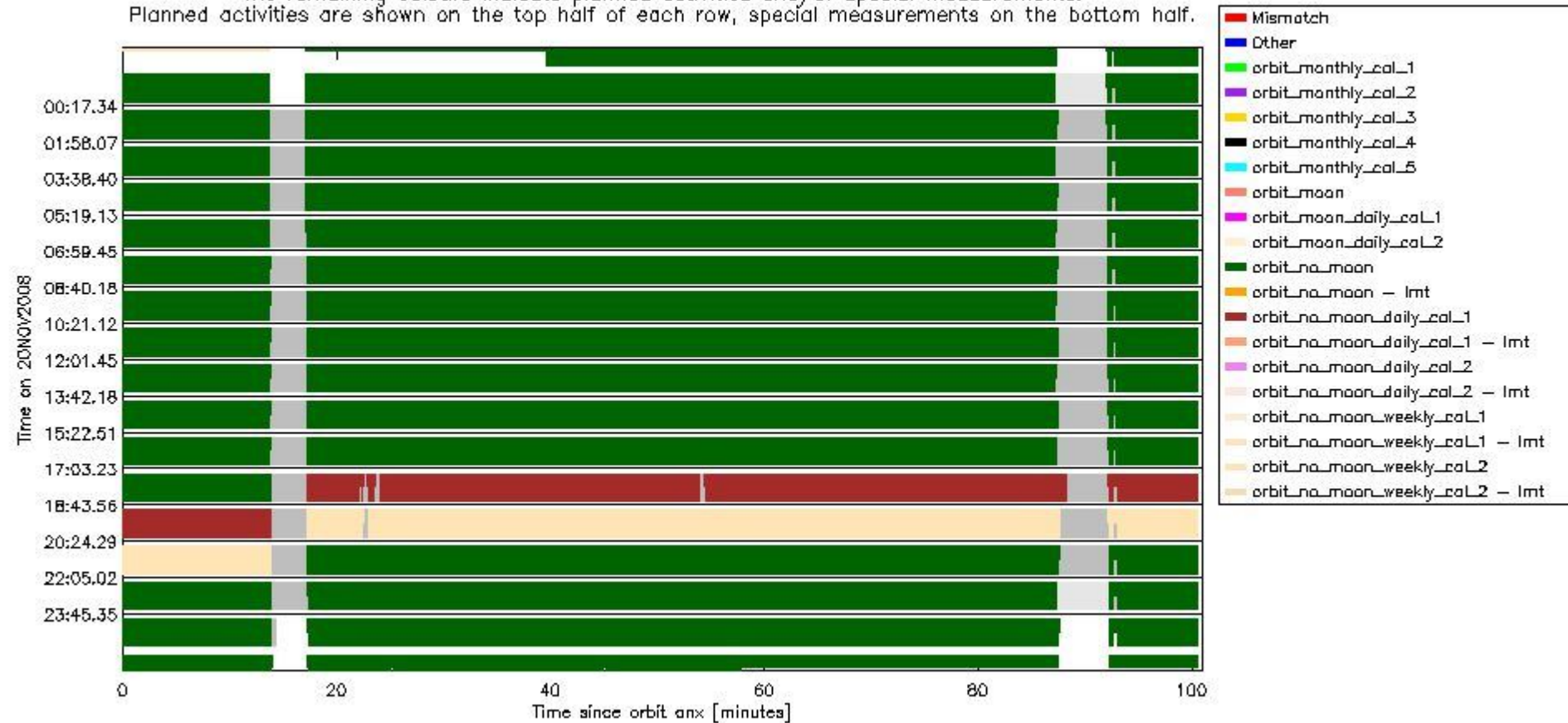


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081120\_5.PNG

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 20NOV2008.  
 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\_20081120\_6.PNG

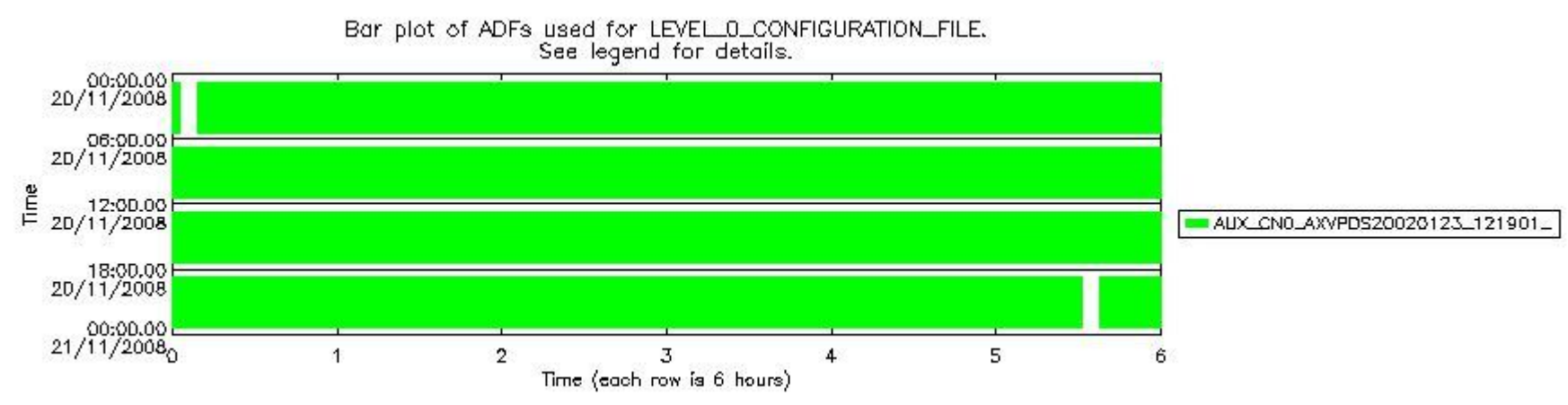
## 0.4 ADF monitoring

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

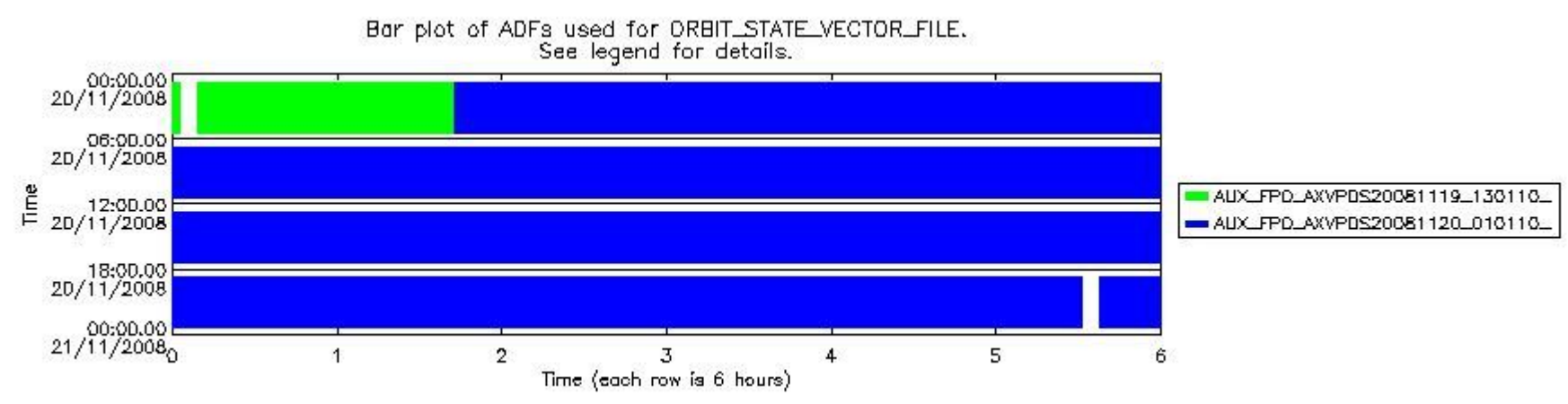
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

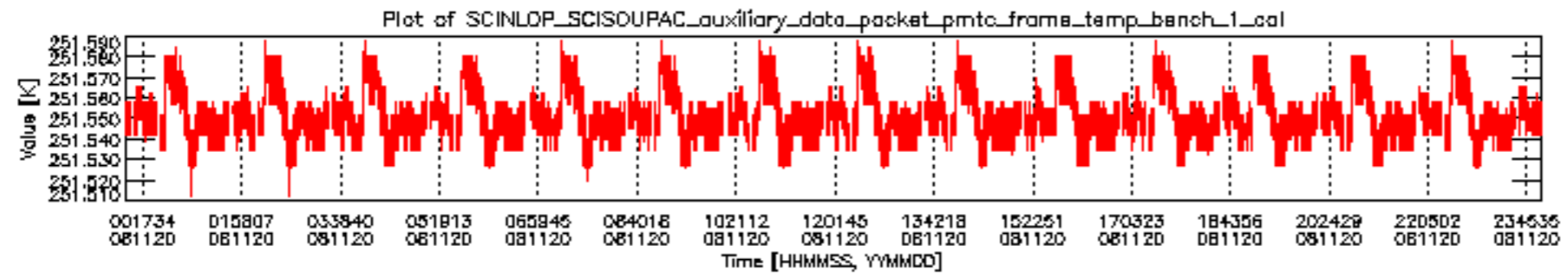
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20081119_130110_20081118_194714_20081128_211329</b>
2	<b>AUX_FPO_AXVPDS20081120_010110_20081119_191537_20081129_204152</b>



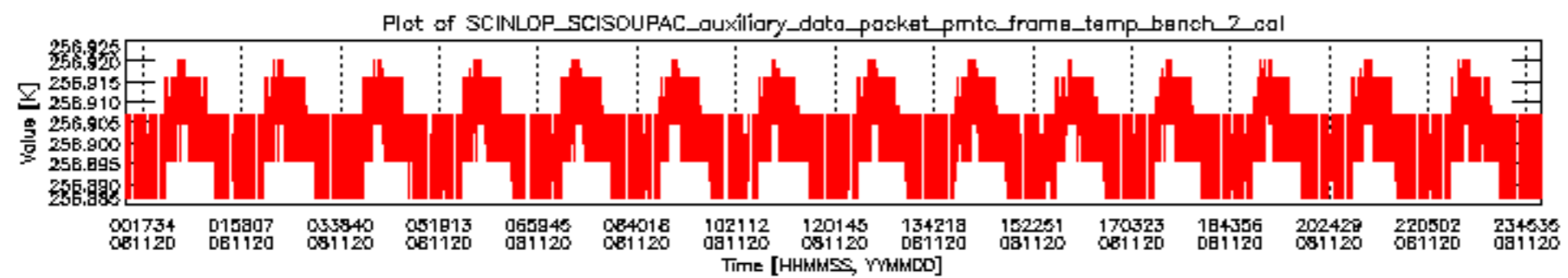
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081120\_7.PNG

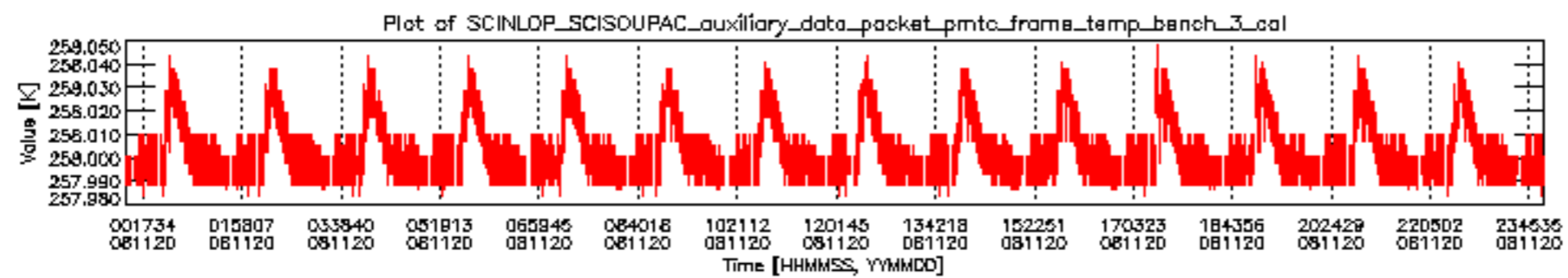


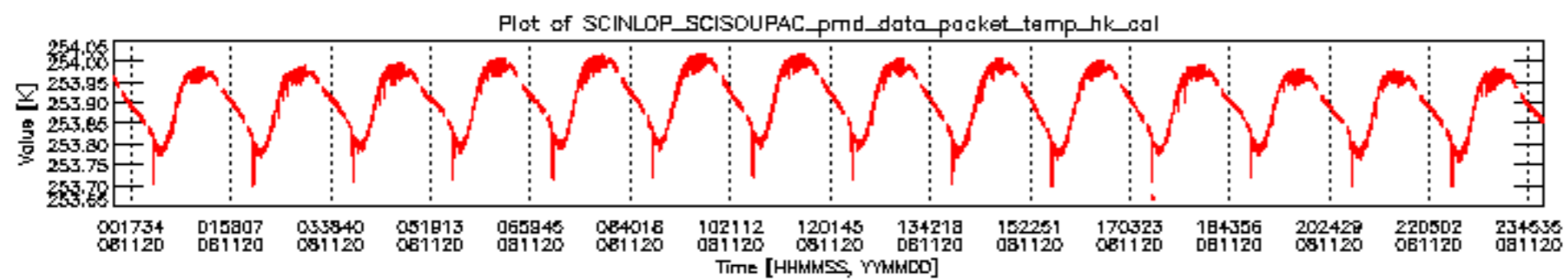
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081120\_8.PNG

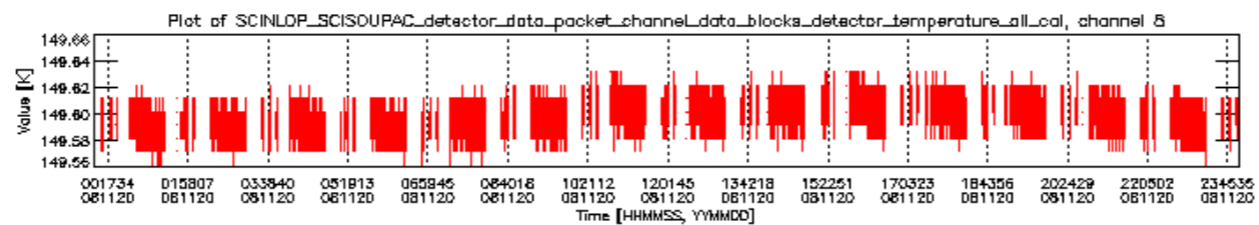
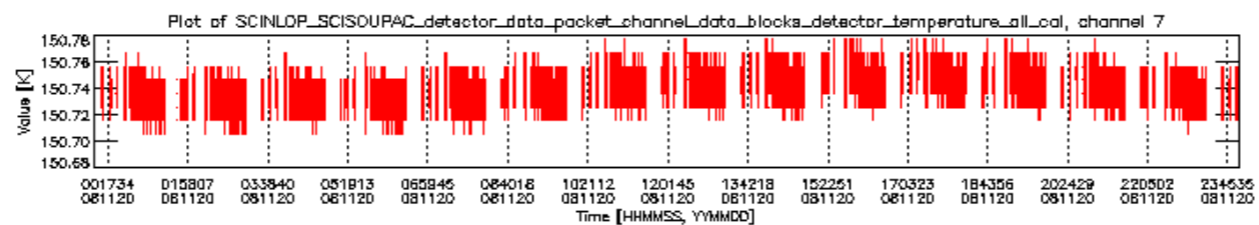
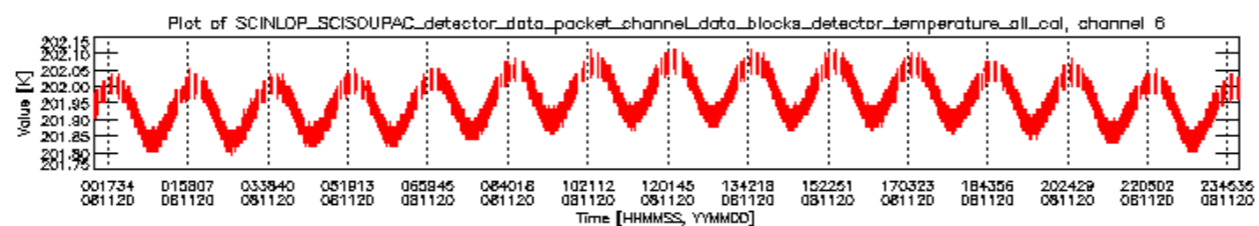
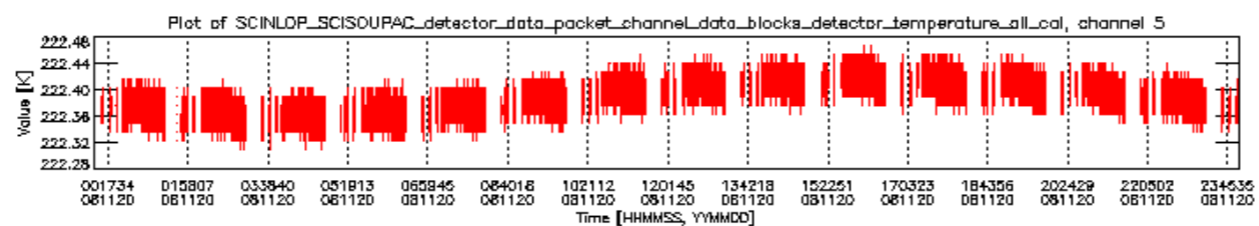
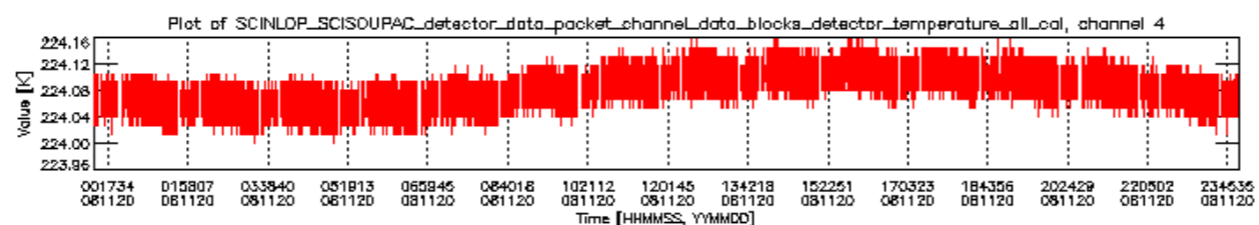
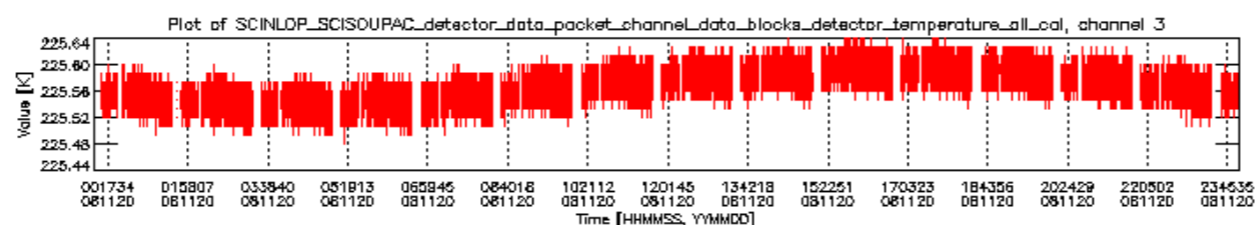
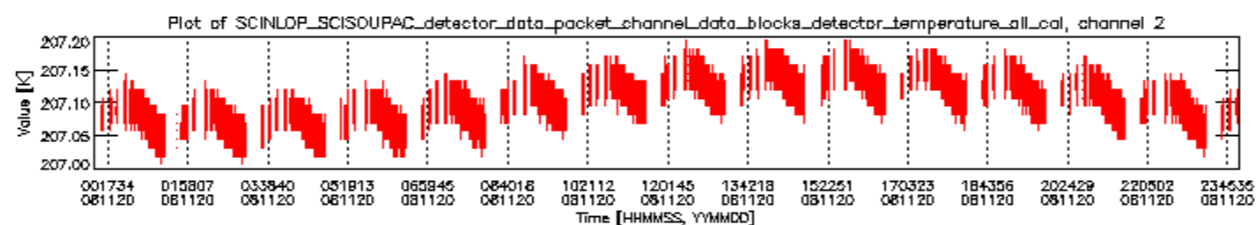
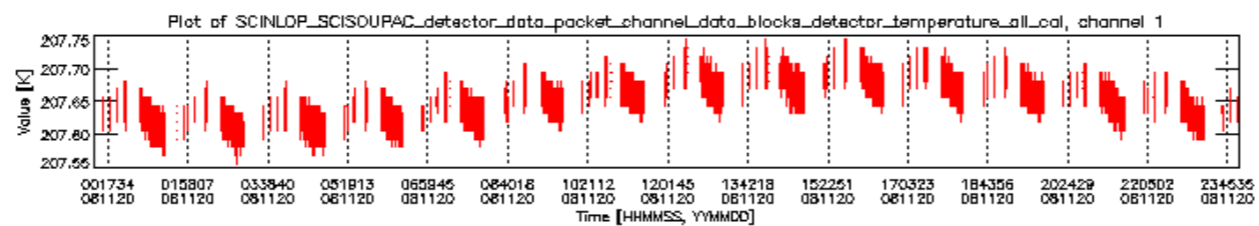














Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 20NOV2008.  
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