

## 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	09NOV2007 06:54:25
Data source version	KSPT_L0/4302-N
Processing scope for products	05NOV2007 00:00:00 to 06NOV2007 00:00:00
Start time of first product within scope	04NOV2007 23:41:51
Stop time of last product within scope	06NOV2007 00:44:55
Total number of level 0 products	16
Number of level 0 products with errors	1

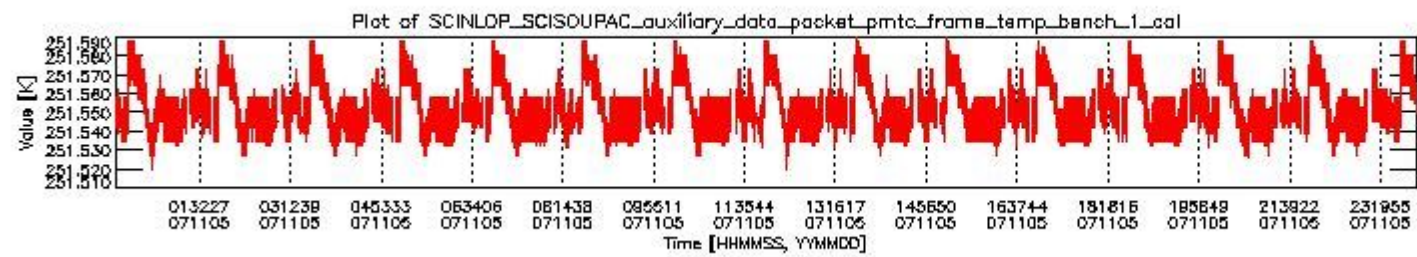
### 0.1.2 Summary per product

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

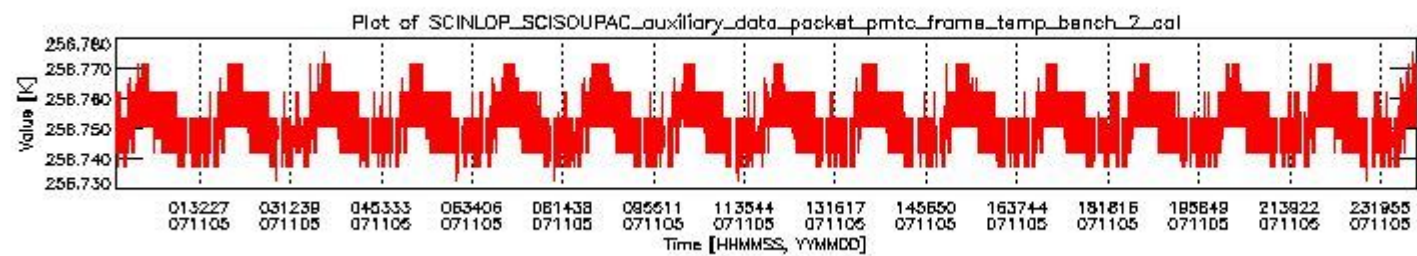
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071104_234151_000056762063_00087_29700_5512.N1	04NOV2007 23:41:51	05NOV2007 01:16:27	0	0	0	0	0
1	SCI_NL__OPNPDE20071105_012227_000041882063_00088_29701_5513.N1	05NOV2007 01:22:27	05NOV2007 02:32:15	0	0	0	0	0
2	SCI_NL__OPNPDE20071105_023119_000061482063_00089_29702_5514.N1	05NOV2007 02:31:19	05NOV2007 04:13:47	0	0	0	0	0
3	SCI_NL__OPNPDE20071105_041347_000060492063_00090_29703_5515.N1	05NOV2007 04:13:47	05NOV2007 05:54:36	0	0	0	0	0
4	SCI_NL__OPNPDK20071105_055328_000041702063_00091_29704_6547.N1	05NOV2007 05:53:28	05NOV2007 07:02:58	0	0	0	0	0
5	SCI_NL__OPNPDK20071105_070149_000061732063_00092_29705_6548.N1	05NOV2007 07:01:49	05NOV2007 08:44:43	0	0	0	0	0
6	SCI_NL__OPNPDK20071105_084334_000059682063_00093_29706_6549.N1	05NOV2007 08:43:34	05NOV2007 10:23:02	0	0	0	0	0
7	SCI_NL__OPNPDK20071105_102206_000060362063_00094_29707_6550.N1	05NOV2007 10:22:06	05NOV2007 12:02:42	0	0	0	0	0
8	SCI_NL__OPNPDK20071105_120038_000060362063_00095_29708_6551.N1	05NOV2007 12:00:38	05NOV2007 13:41:14	0	0	0	0	0
9	SCI_NL__OPNPDK20071105_133922_000058432063_00096_29709_6552.N1	05NOV2007 13:39:22	05NOV2007 15:16:45	0	0	0	0	0
10	SCI_NL__OPNPDK20071105_151645_000060362063_00097_29710_6553.N1	05NOV2007 15:16:45	05NOV2007 16:57:21	0	0	0	0	0
11	SCI_NL__OPNPDK20071105_165721_000059242063_00098_29711_6554.N1	05NOV2007 16:57:21	05NOV2007 18:36:05	1	1	0	0	0
12	SCI_NL__OPNPDK20071105_183413_000057782063_00099_29712_6555.N1	05NOV2007 18:34:13	05NOV2007 20:10:31	0	0	0	0	0
13	SCI_NL__OPNPDE20071105_201031_000044122063_00100_29713_5516.N1	05NOV2007 20:10:31	05NOV2007 21:24:03	0	0	0	0	0
14	SCI_NL__OPNPDE20071105_212943_000056892063_00100_29713_5517.N1	05NOV2007 21:29:43	05NOV2007 23:04:32	0	0	0	0	0
15	SCI_NL__OPNPDE20071105_231019_000056762063_00101_29714_5518.N1	05NOV2007 23:10:19	06NOV2007 00:44:55	0	0	0	0	0

## 0.2 Product Quality Indicators

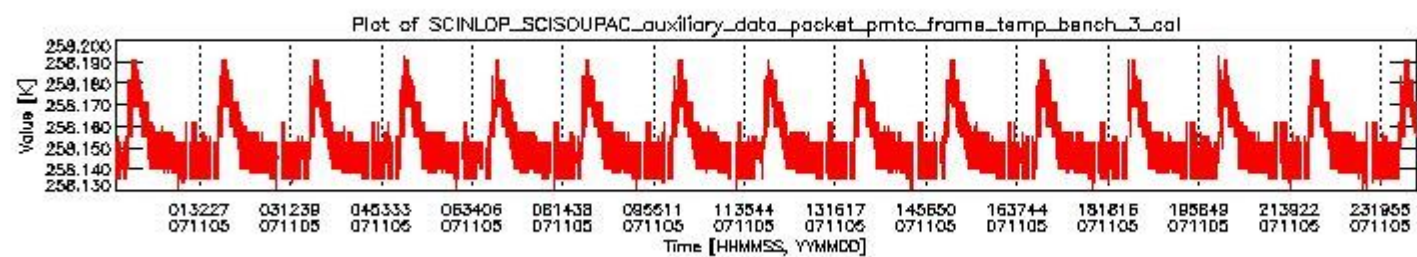
This section shows information about product quality, currently temperatures.



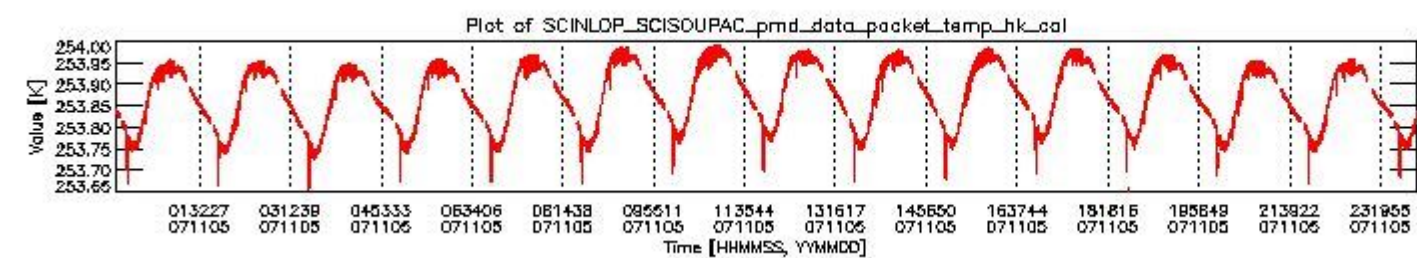
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071105\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071105\_1.PNG

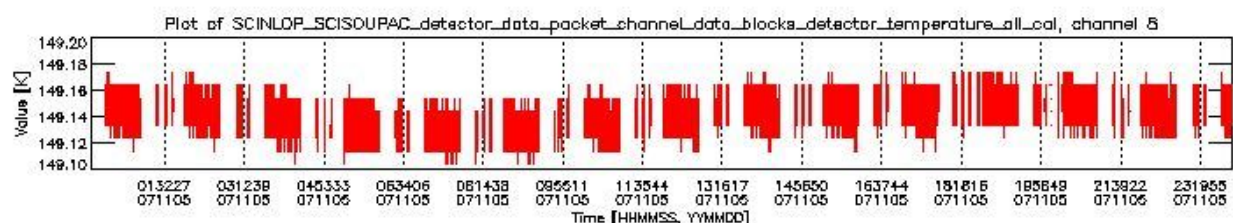
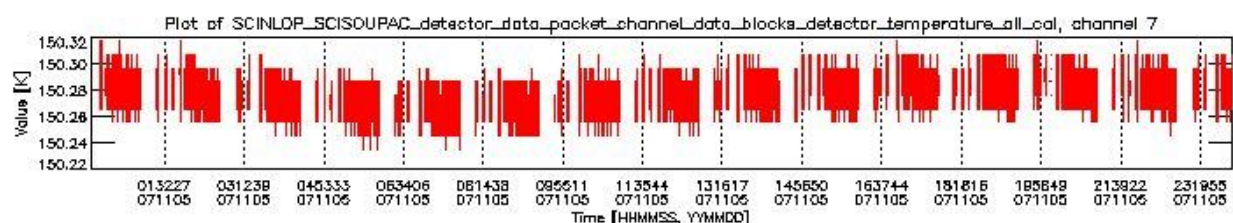
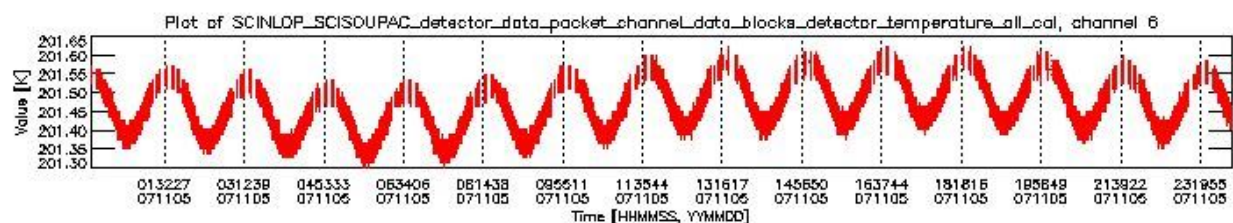
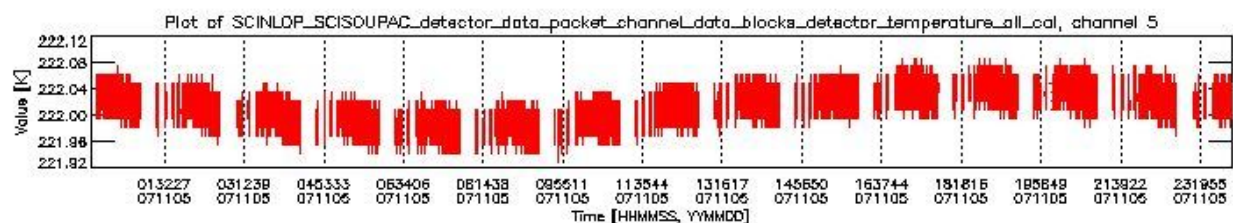
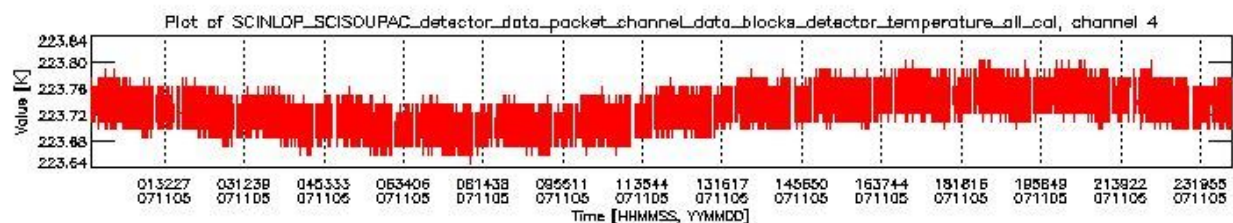
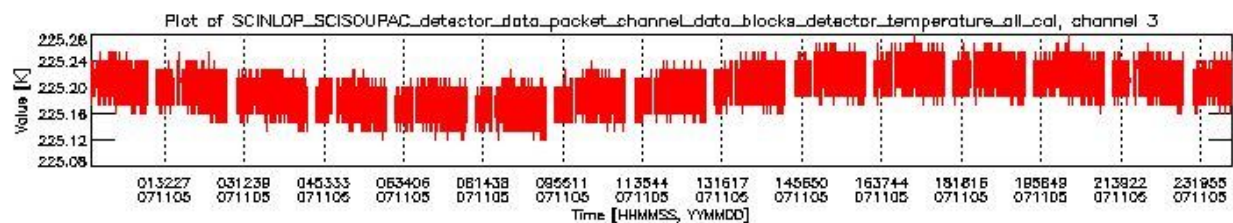
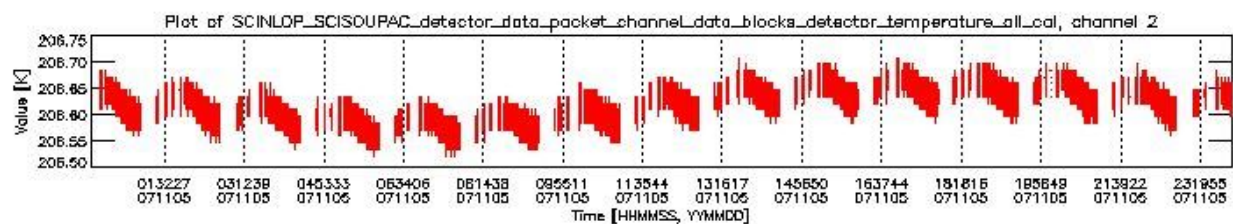
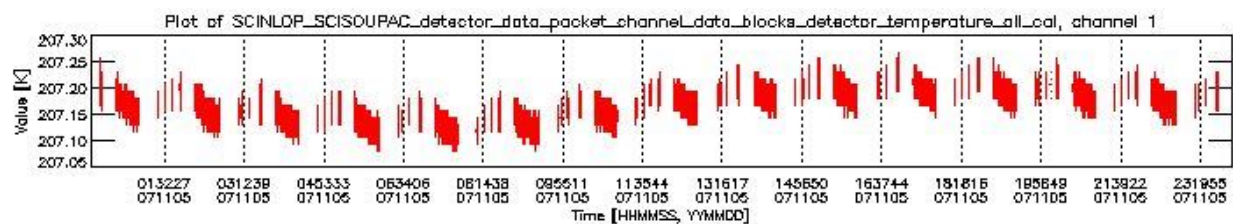


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071105\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071105\_3.PNG



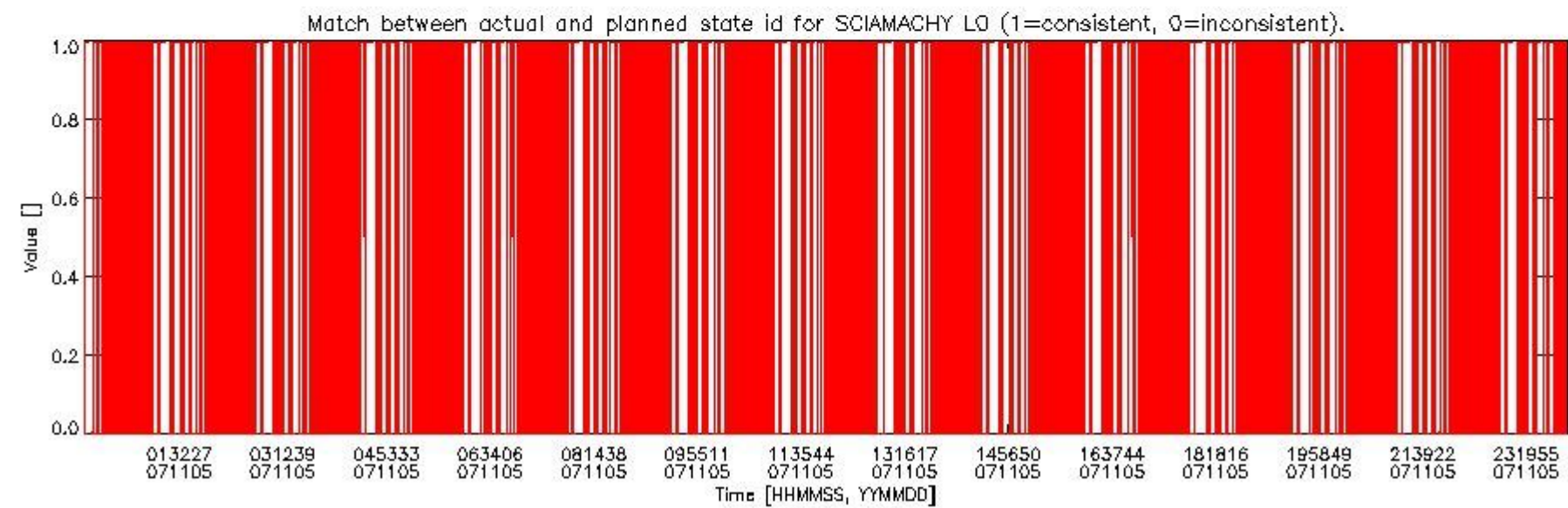
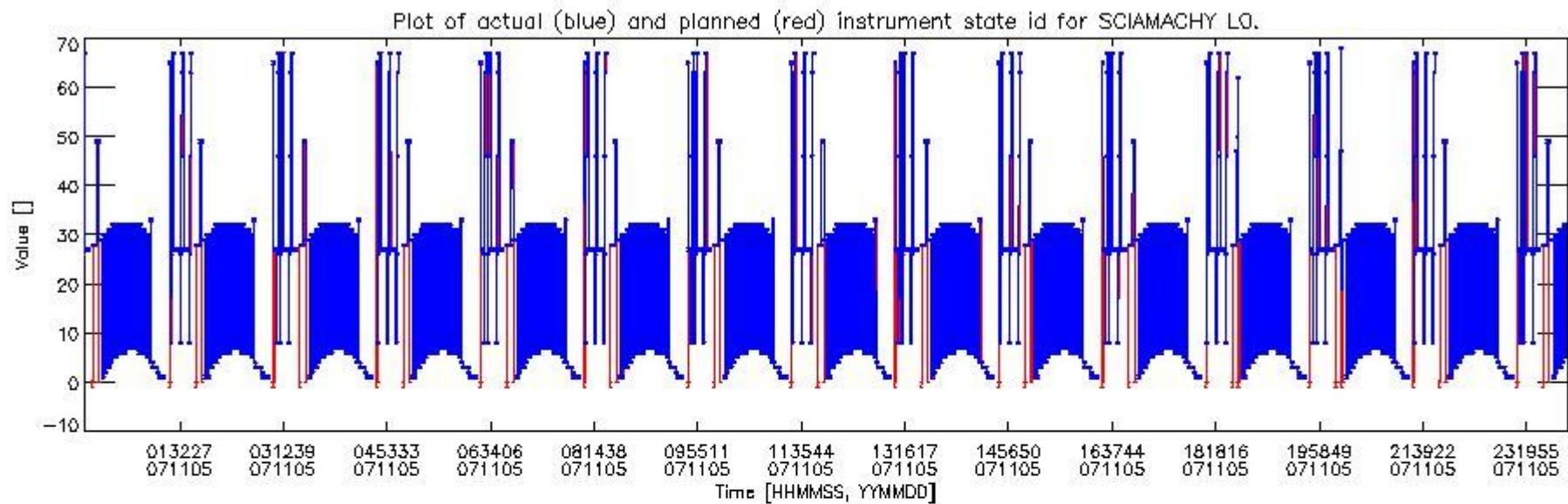


### 0.3 State monitoring

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: **34197**

#	Actual time	Actual value	Planned time	Planned value
0	05NOV2007 00:00:18.768838	27	05NOV2007 00:00:18.768838	67
1	05NOV2007 00:00:19.768833	27	05NOV2007 00:00:19.768833	67
2	05NOV2007 00:00:20.706345	27	05NOV2007 00:00:20.706345	67
3	05NOV2007 00:00:21.456331	27	05NOV2007 00:00:21.456331	67
4	05NOV2007 00:00:22.393844	27	05NOV2007 00:00:22.393844	67
5	05NOV2007 00:00:23.143829	27	05NOV2007 00:00:23.143829	67
6	05NOV2007 00:00:23.768851	27	05NOV2007 00:00:23.768851	67
7	05NOV2007 00:00:24.081342	27	05NOV2007 00:00:24.081342	67
8	05NOV2007 00:00:24.831328	27	05NOV2007 00:00:24.831328	67
9	05NOV2007 00:00:25.768840	27	05NOV2007 00:00:25.768840	67
10	05NOV2007 00:07:34.026626	28	05NOV2007 00:07:34.026626	0
11	05NOV2007 00:07:34.651648	28	05NOV2007 00:07:34.651648	0
12	05NOV2007 00:07:35.026621	28	05NOV2007 00:07:35.026621	0
13	05NOV2007 00:07:35.401634	28	05NOV2007 00:07:35.401634	0
14	05NOV2007 00:07:35.964133	28	05NOV2007 00:07:35.964133	0
15	05NOV2007 00:07:36.339146	28	05NOV2007 00:07:36.339146	0
16	05NOV2007 00:07:36.714119	28	05NOV2007 00:07:36.714119	0
17	05NOV2007 00:07:37.089132	28	05NOV2007 00:07:37.089132	0
18	05NOV2007 00:07:37.651632	28	05NOV2007 00:07:37.651632	0
19	05NOV2007 00:07:38.026645	28	05NOV2007 00:07:38.026645	0
	...	...	...	...



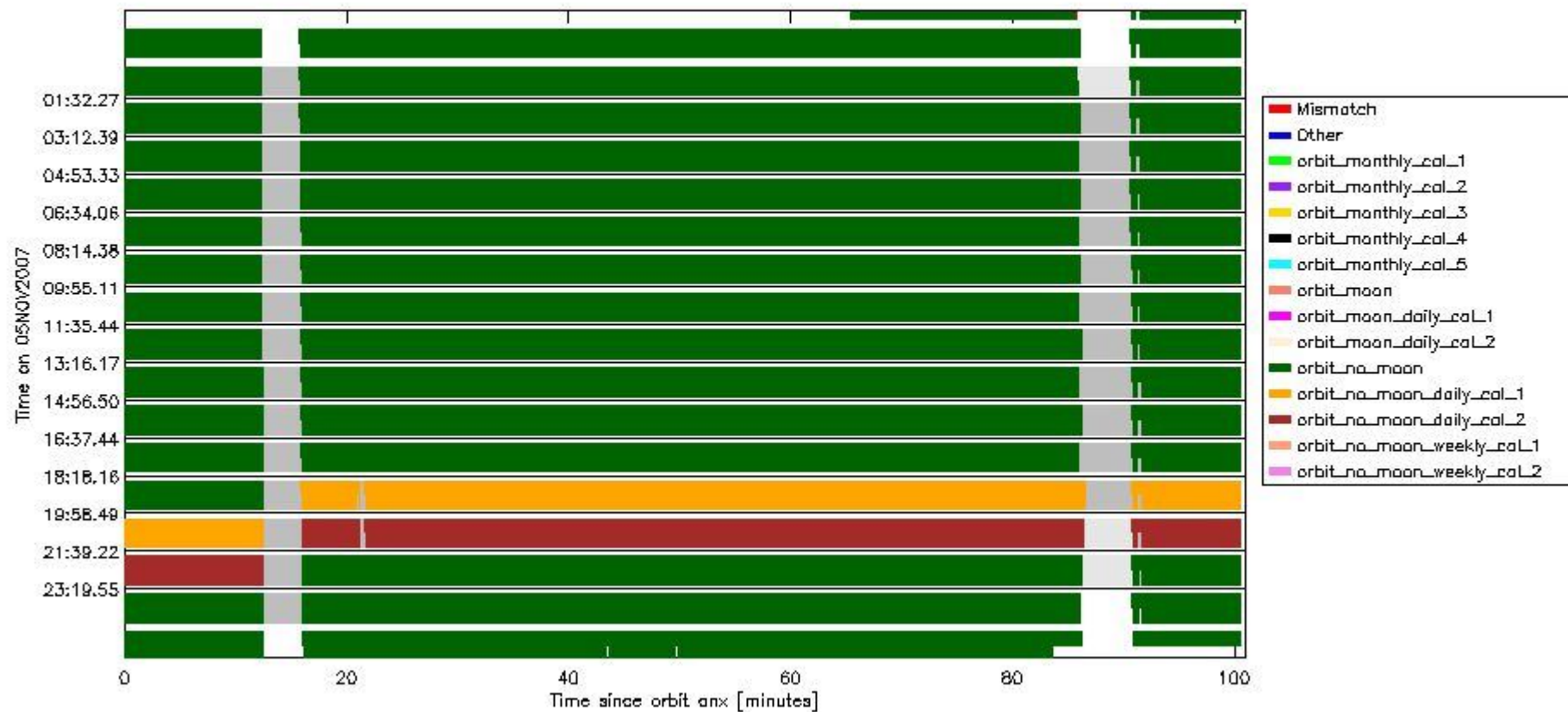
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071105\_5.PNG

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 05NOV2007.  
 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\_20071105\_6.PNG

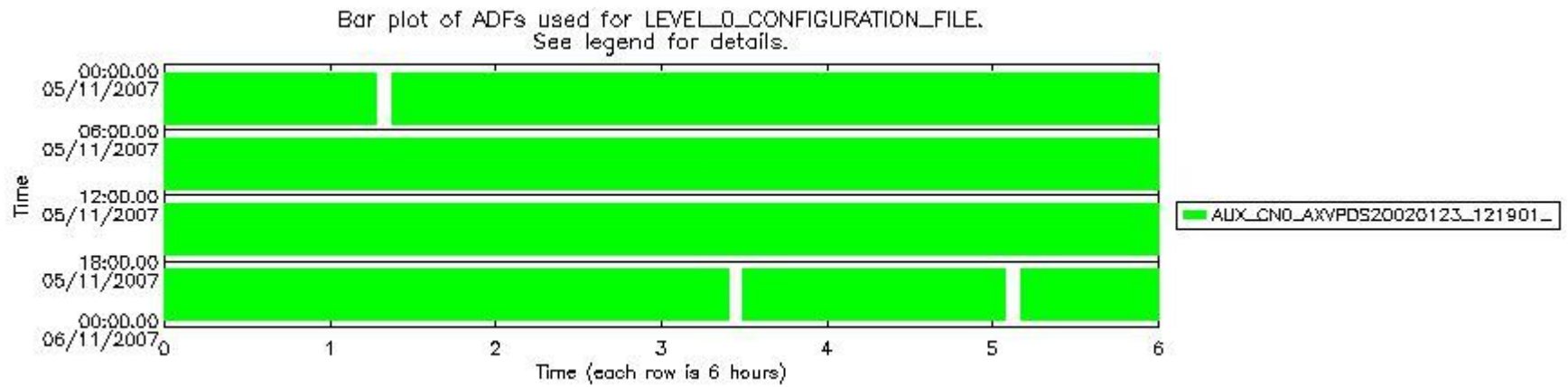
## 0.4 ADF monitoring

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

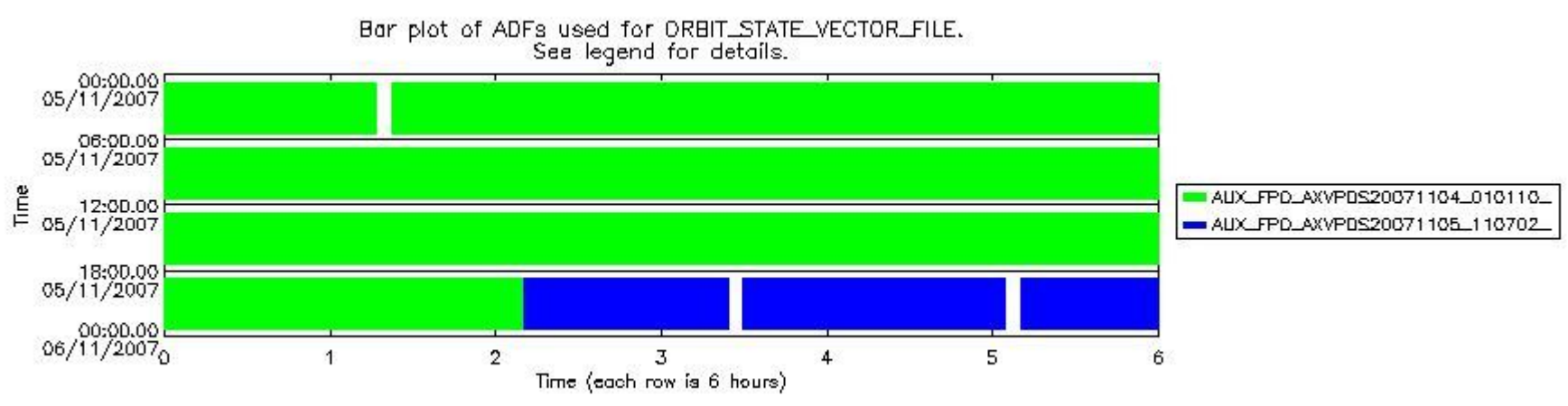
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

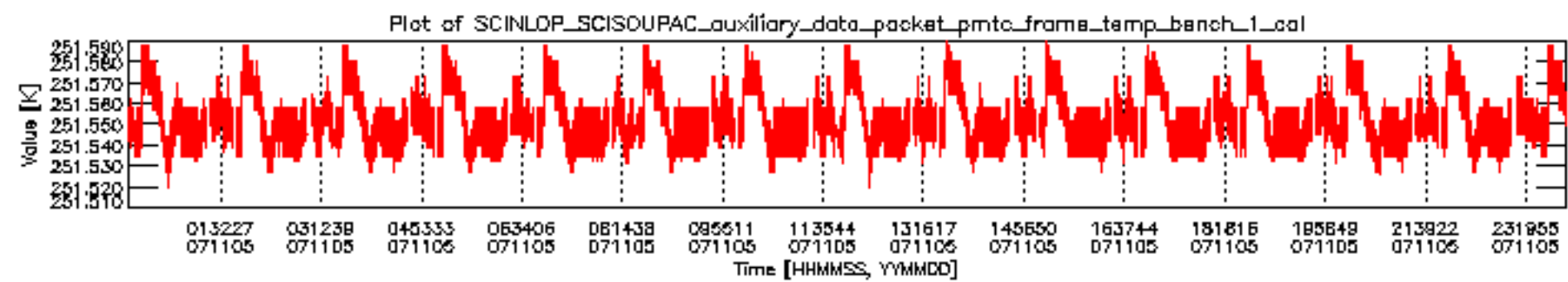
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20071104_010110_20071103_192127_20071113_204740
2	AUX_FPO_AXVPDS20071105_110702_20071104_184950_20071114_201603



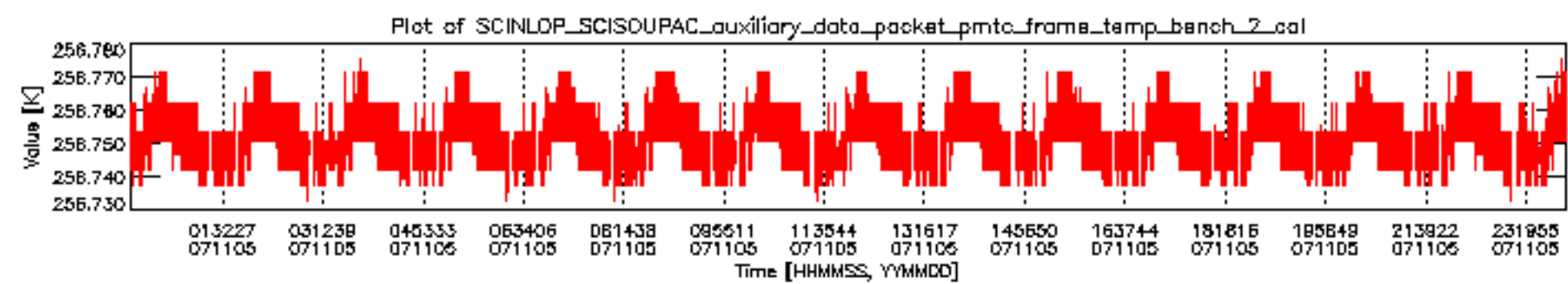
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071105\_7.PNG

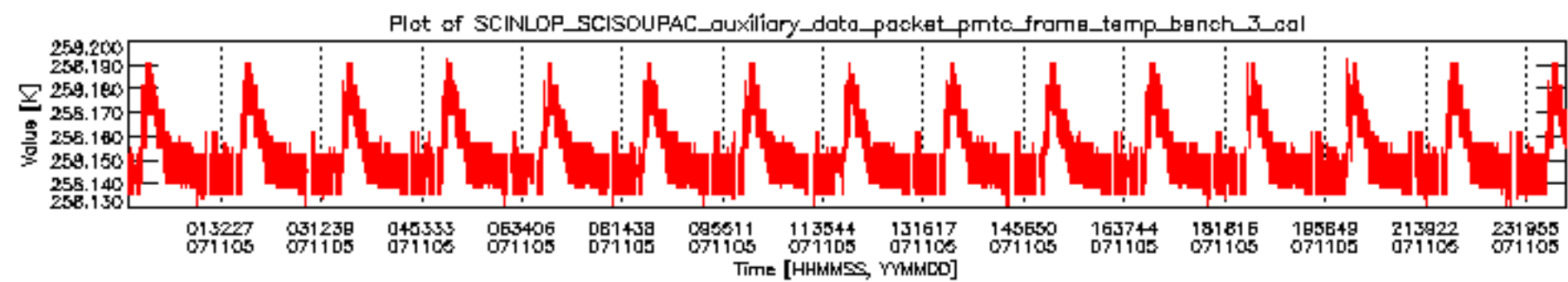


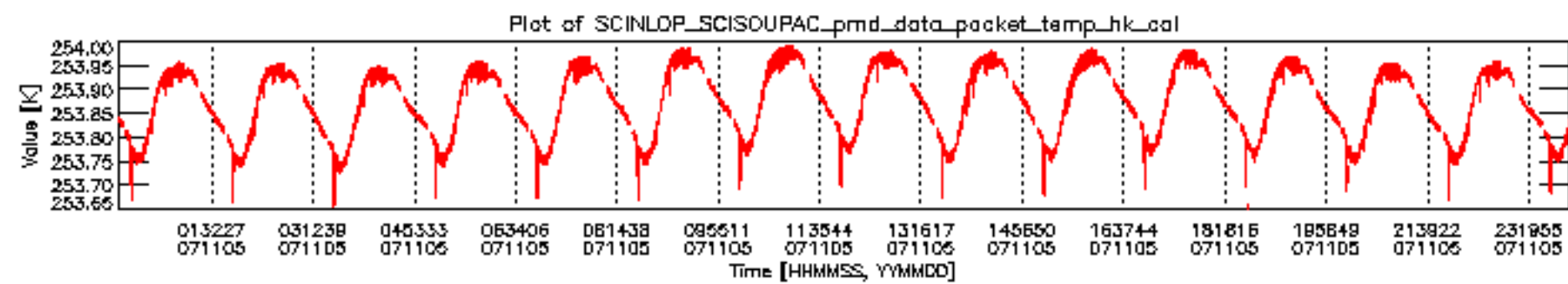
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071105\_8.PNG

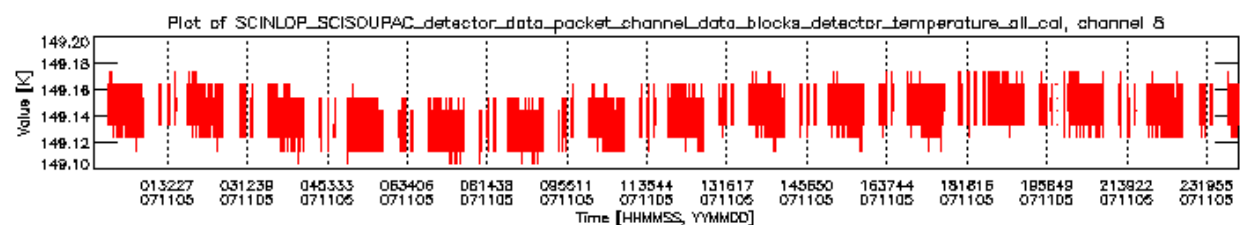
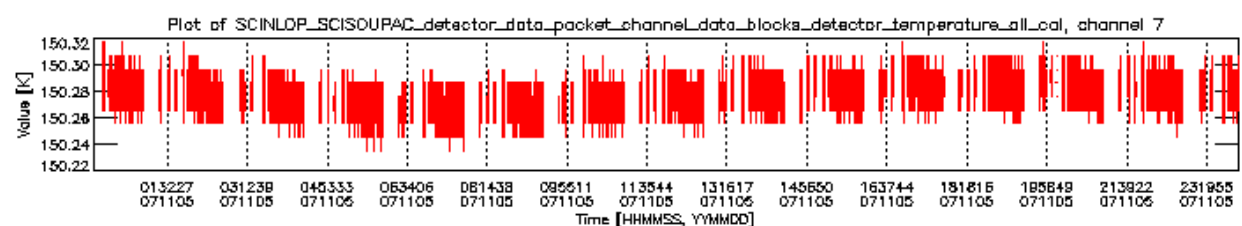
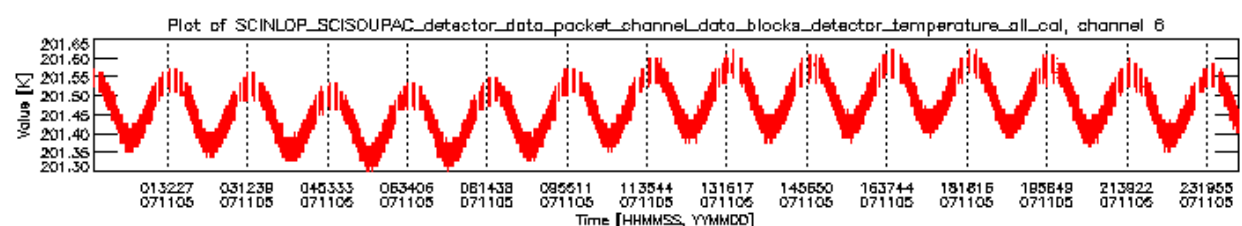
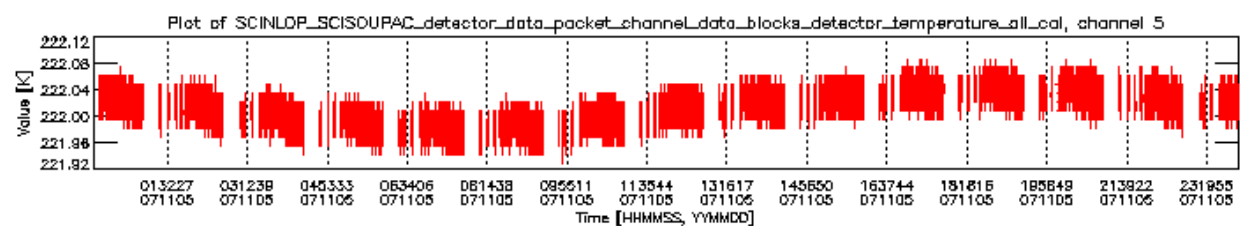
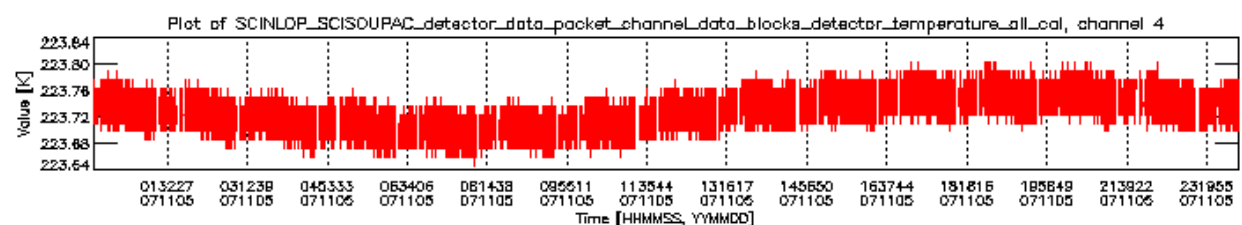
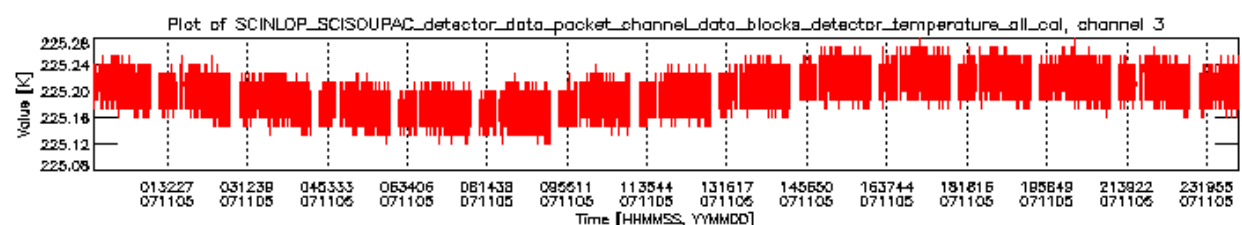
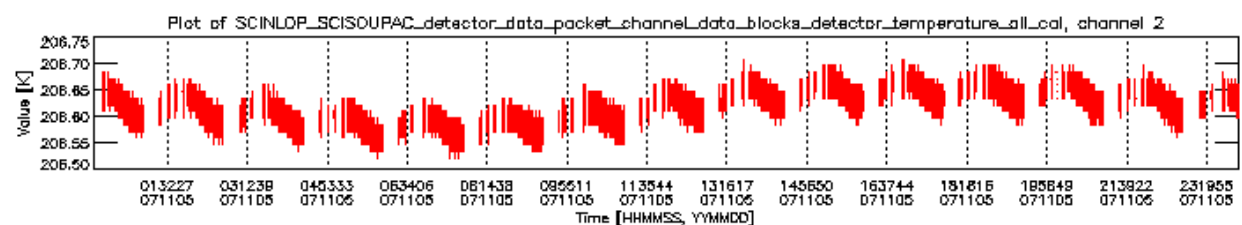
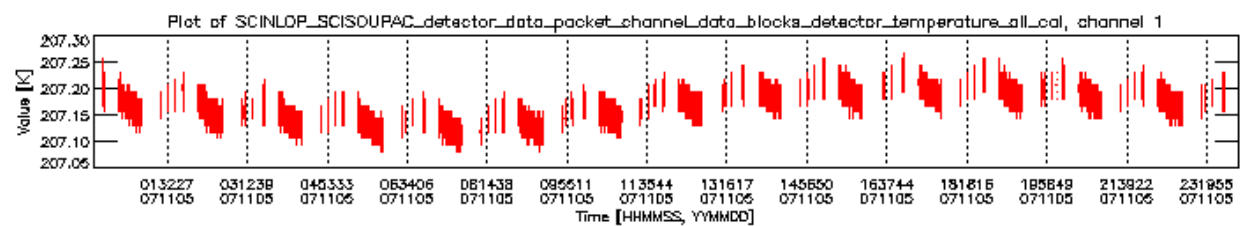
















Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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