

## 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	22DEC2008 05:43:51
Data source version	KSPT_L0/4303-N
Processing scope for products	18DEC2008 00:00:00 to 19DEC2008 00:00:00
Start time of first product within scope	17DEC2008 22:50:00
Stop time of last product within scope	19DEC2008 01:33:15
Total number of level 0 products	17
Number of level 0 products with errors	0

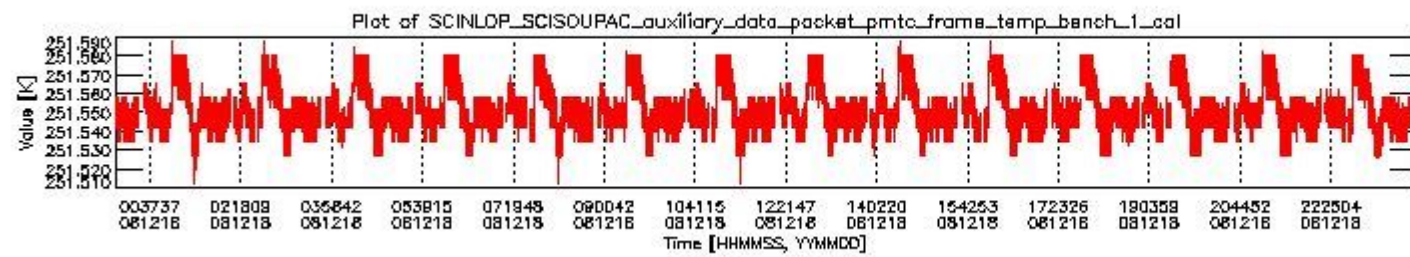
### 0.1.2 Summary per product

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

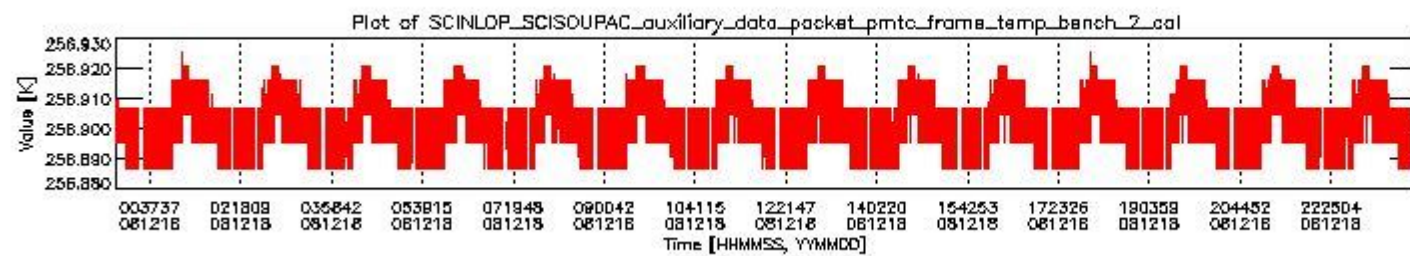
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081217_225000_000056432074_00430_35554_8117.N1	17DEC2008 22:50:00	18DEC2008 00:24:03	0	0	0	0	0
1	SCI_NL__OPNPDE20081218_003036_000055182074_00431_35555_8118.N1	18DEC2008 00:30:36	18DEC2008 02:02:34	0	0	0	0	0
2	SCI_NL__OPNPDE20081218_020126_000048652074_00432_35556_8119.N1	18DEC2008 02:01:26	18DEC2008 03:22:31	0	0	0	0	0
3	SCI_NL__OPNPDE20081218_032231_000057872074_00433_35557_8120.N1	18DEC2008 03:22:31	18DEC2008 04:58:58	0	0	0	0	0
4	SCI_NL__OPNPDE20081218_045858_000060922074_00434_35558_8121.N1	18DEC2008 04:58:58	18DEC2008 06:40:30	0	0	0	0	0
5	SCI_NL__OPNPDK20081218_063934_000040452074_00435_35559_0220.N1	18DEC2008 06:39:34	18DEC2008 07:46:59	0	0	0	0	0
6	SCI_NL__OPNPDK20081218_074659_000062162074_00436_35560_0221.N1	18DEC2008 07:46:59	18DEC2008 09:30:35	0	0	0	0	0
7	SCI_NL__OPNPDK20081218_092831_000060492074_00437_35561_0222.N1	18DEC2008 09:28:31	18DEC2008 11:09:20	0	0	0	0	0
8	SCI_NL__OPNPDK20081218_110811_000059242074_00438_35562_0223.N1	18DEC2008 11:08:11	18DEC2008 12:46:55	0	0	0	0	0
9	SCI_NL__OPNPDK20081218_124559_000060922074_00439_35563_0224.N1	18DEC2008 12:45:59	18DEC2008 14:27:31	0	0	0	0	0
10	SCI_NL__OPNPDK20081218_142635_000058982074_00440_35564_0225.N1	18DEC2008 14:26:35	18DEC2008 16:04:53	0	0	0	0	0
11	SCI_NL__OPNPDK20081218_160453_000055482074_00441_35565_0226.N1	18DEC2008 16:04:53	18DEC2008 17:37:21	0	0	0	0	0
12	SCI_NL__OPNPDK20081218_174145_000057672074_00442_35566_0227.N1	18DEC2008 17:41:45	18DEC2008 19:17:52	0	0	0	0	0
13	SCI_NL__OPNPDK20081218_192221_000057722074_00443_35567_0228.N1	18DEC2008 19:22:21	18DEC2008 20:58:33	0	0	0	0	0
14	SCI_NL__OPNPDE20081218_205833_000044102074_00444_35568_8122.N1	18DEC2008 20:58:33	18DEC2008 22:12:03	0	0	0	0	0
15	SCI_NL__OPNPDE20081218_221054_000060922074_00444_35568_8123.N1	18DEC2008 22:10:54	18DEC2008 23:52:26	0	0	0	0	0
16	SCI_NL__OPNPDE20081218_235900_000056542074_00445_35569_8124.N1	18DEC2008 23:59:00	19DEC2008 01:33:15	0	0	0	0	0

## 0.2 Product Quality Indicators

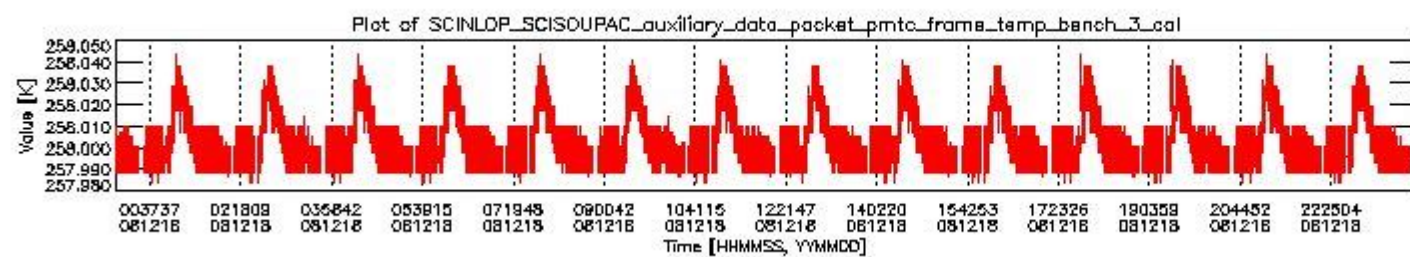
This section shows information about product quality, currently temperatures.



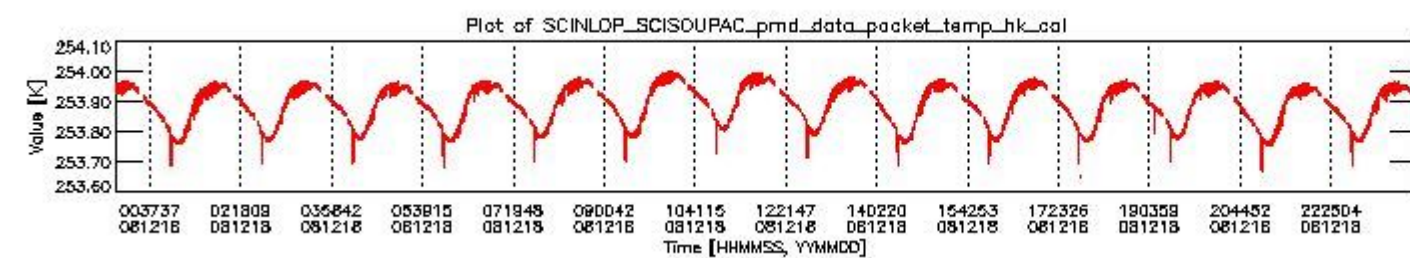
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081218\_0.PNG



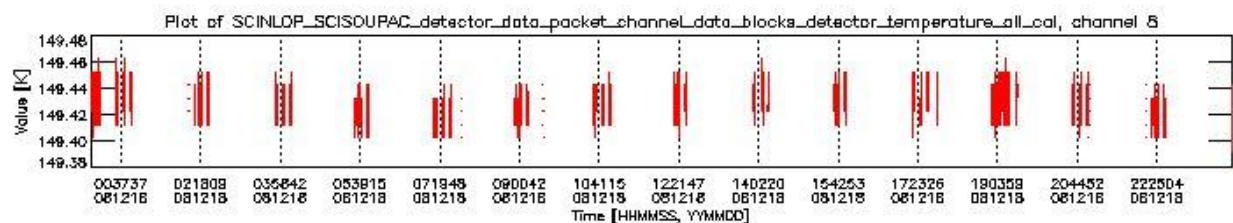
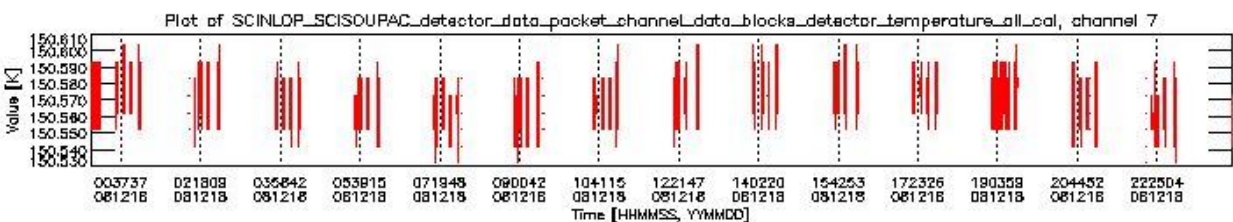
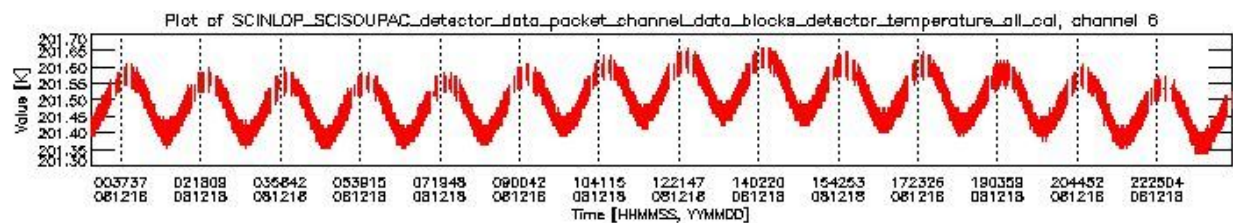
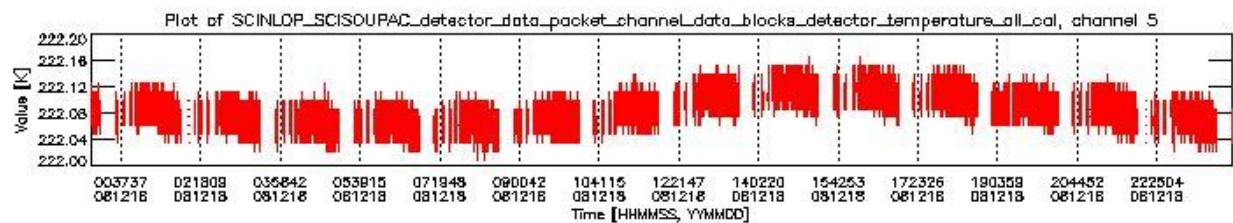
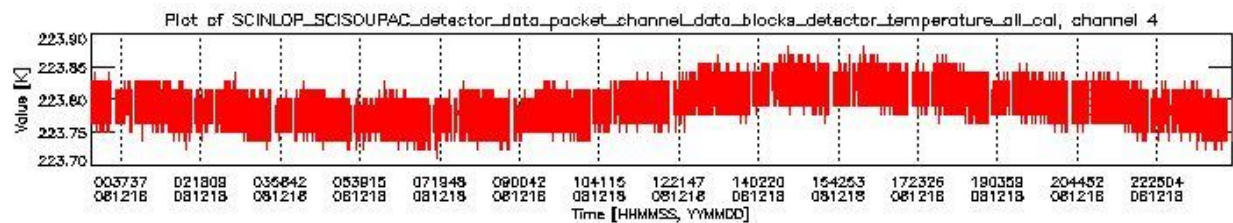
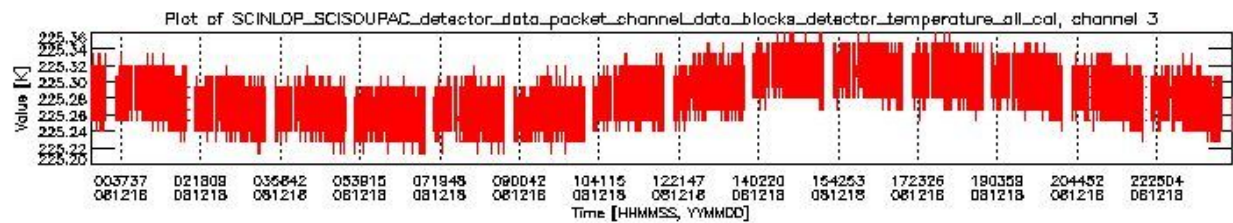
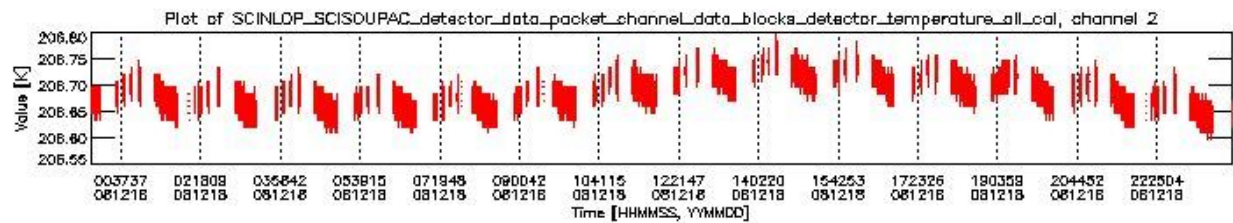
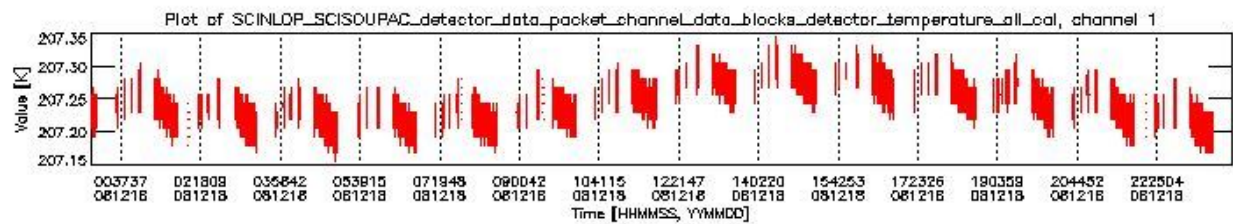
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081218\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081218\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081218\_3.PNG

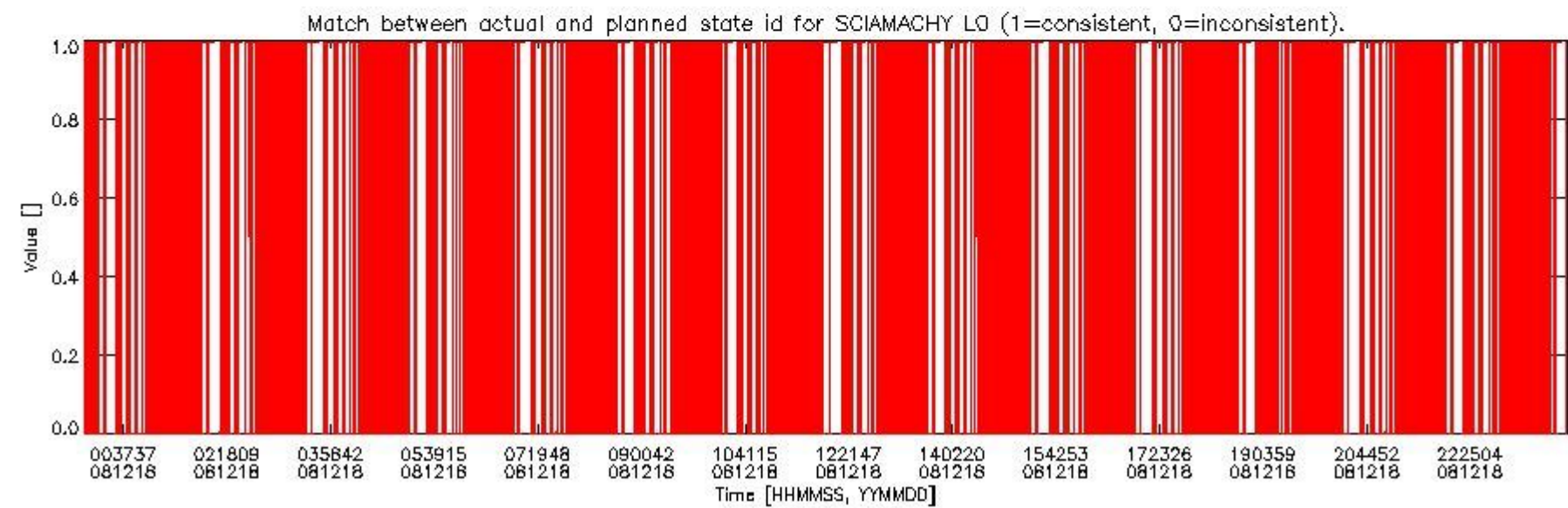
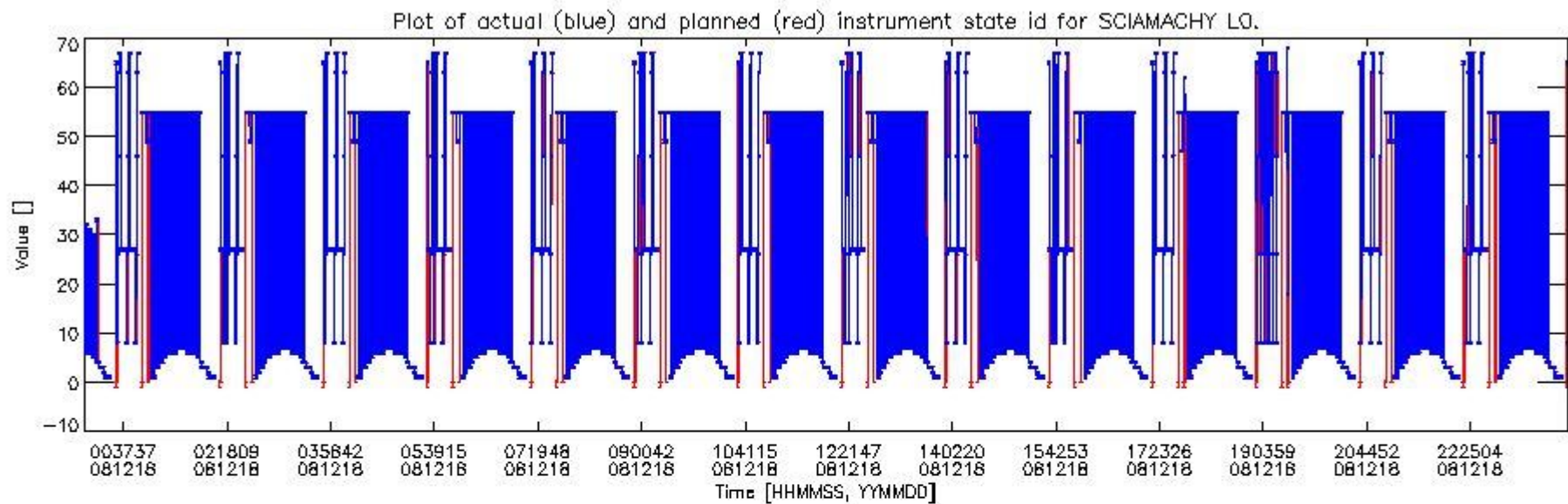


### 0.3 State monitoring

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: **48408**

#	Actual time	Actual value	Planned time	Planned value
0	18DEC2008 00:00:11.342727	6	18DEC2008 00:00:11.342727	32
1	18DEC2008 00:00:11.717740	6	18DEC2008 00:00:11.717740	32
2	18DEC2008 00:00:11.967748	6	18DEC2008 00:00:11.967748	32
3	18DEC2008 00:00:12.217757	6	18DEC2008 00:00:12.217757	32
4	18DEC2008 00:00:12.467766	6	18DEC2008 00:00:12.467766	32
5	18DEC2008 00:00:12.717734	6	18DEC2008 00:00:12.717734	32
6	18DEC2008 00:00:12.967743	6	18DEC2008 00:00:12.967743	32
7	18DEC2008 00:00:13.217752	6	18DEC2008 00:00:13.217752	32
8	18DEC2008 00:00:13.467760	6	18DEC2008 00:00:13.467760	32
9	18DEC2008 00:00:13.717729	6	18DEC2008 00:00:13.717729	32
10	18DEC2008 00:00:13.967738	6	18DEC2008 00:00:13.967738	32
11	18DEC2008 00:00:14.217746	6	18DEC2008 00:00:14.217746	32
12	18DEC2008 00:00:14.467755	6	18DEC2008 00:00:14.467755	32
13	18DEC2008 00:00:14.717764	6	18DEC2008 00:00:14.717764	32
14	18DEC2008 00:00:14.967732	6	18DEC2008 00:00:14.967732	32
15	18DEC2008 00:00:15.217741	6	18DEC2008 00:00:15.217741	32
16	18DEC2008 00:00:15.467750	6	18DEC2008 00:00:15.467750	32
17	18DEC2008 00:00:15.717758	6	18DEC2008 00:00:15.717758	32
18	18DEC2008 00:00:15.967727	6	18DEC2008 00:00:15.967727	32
19	18DEC2008 00:00:16.217735	6	18DEC2008 00:00:16.217735	32
...	...	...	...	...

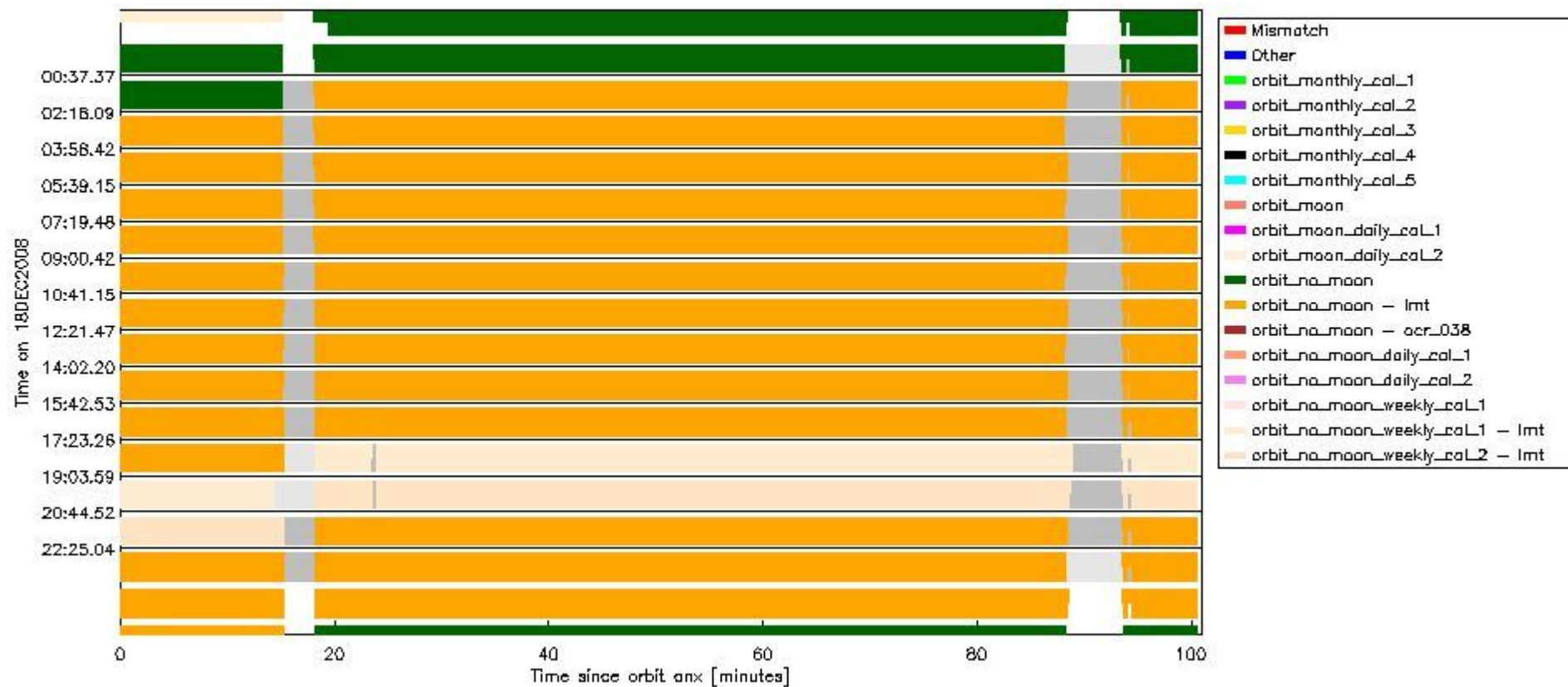


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081218\_5.PNG

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 18DEC2008.  
 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\_20081218\_6.PNG

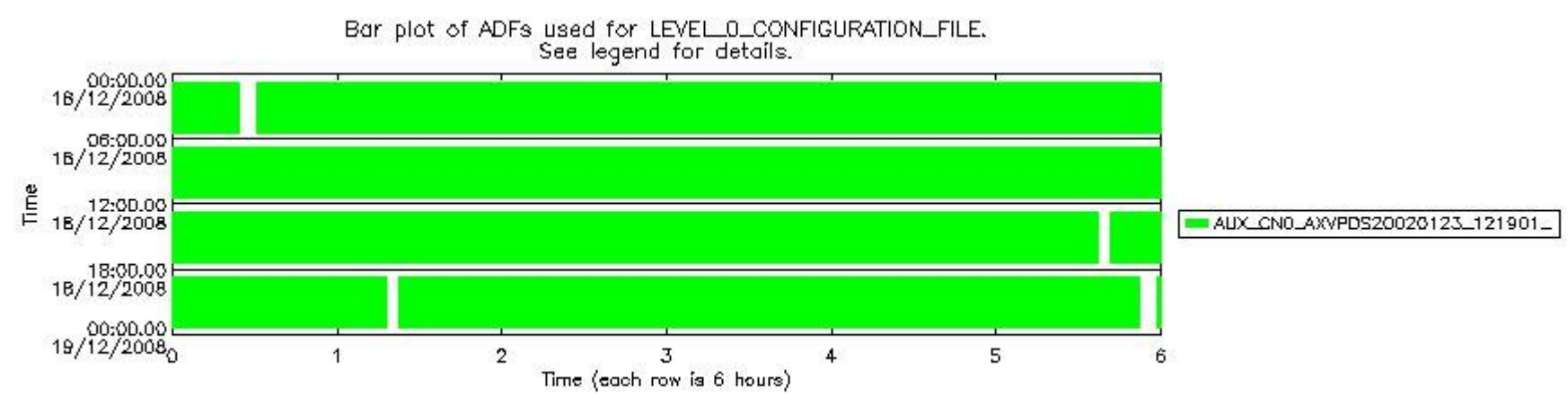
## 0.4 ADF monitoring

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

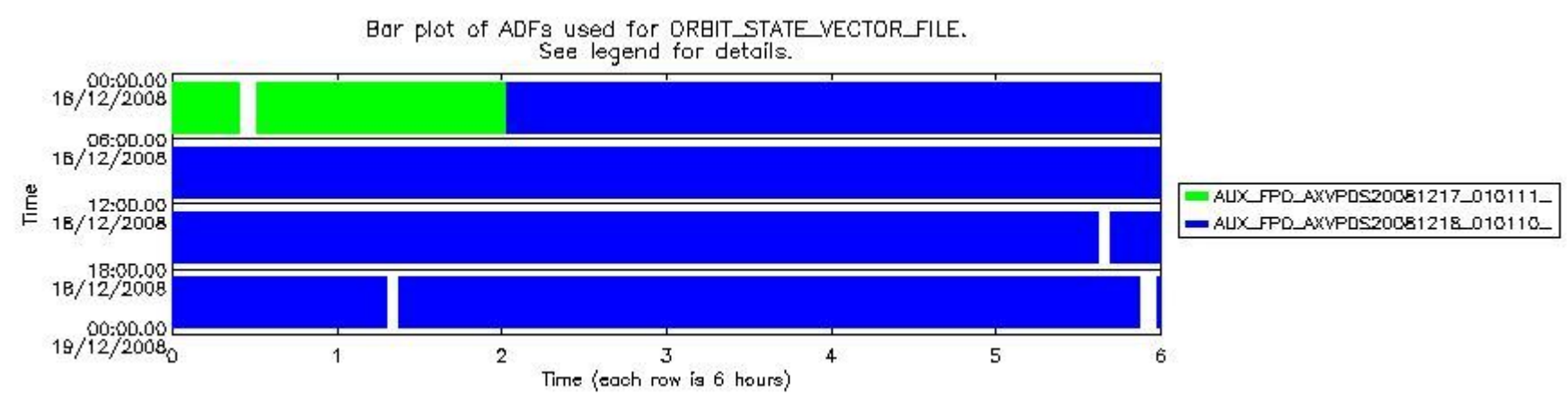
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

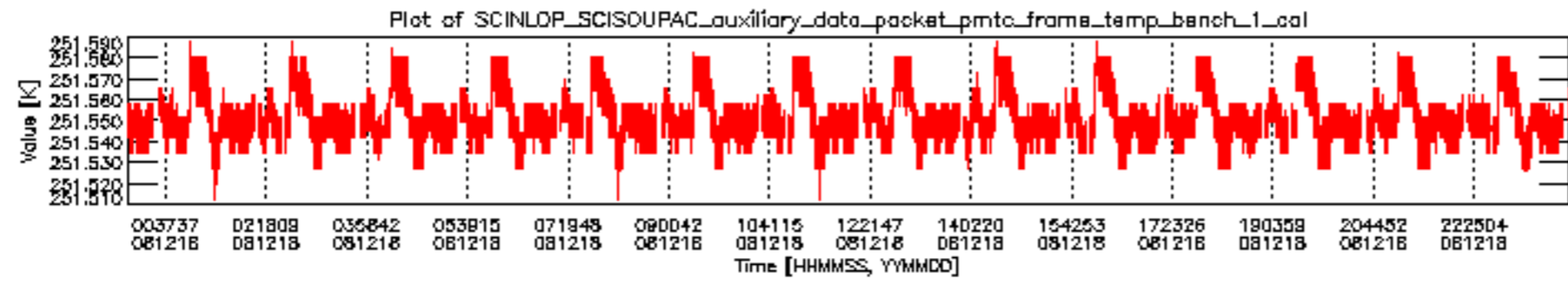
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20081217_010111_20081216_182647_20081226_213337
2	AUX_FPO_AXVPDS20081218_010110_20081217_193546_20081227_210200



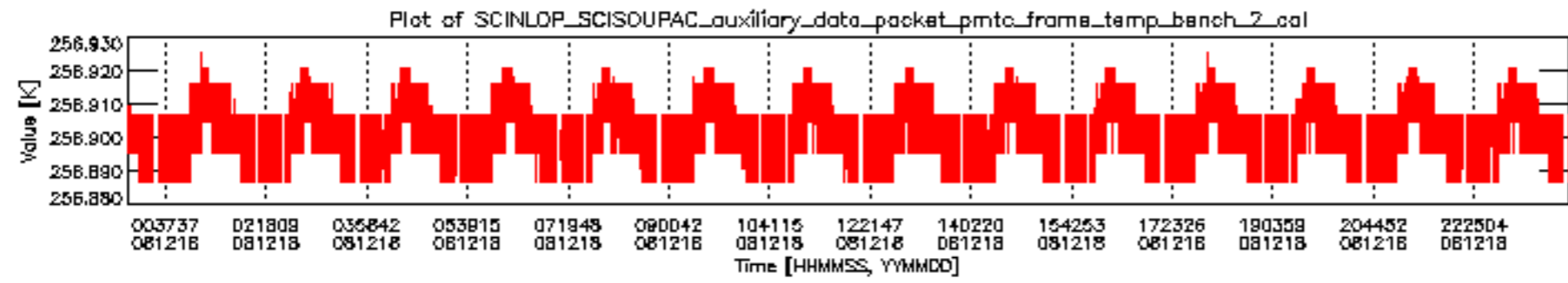
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081218\_7.PNG

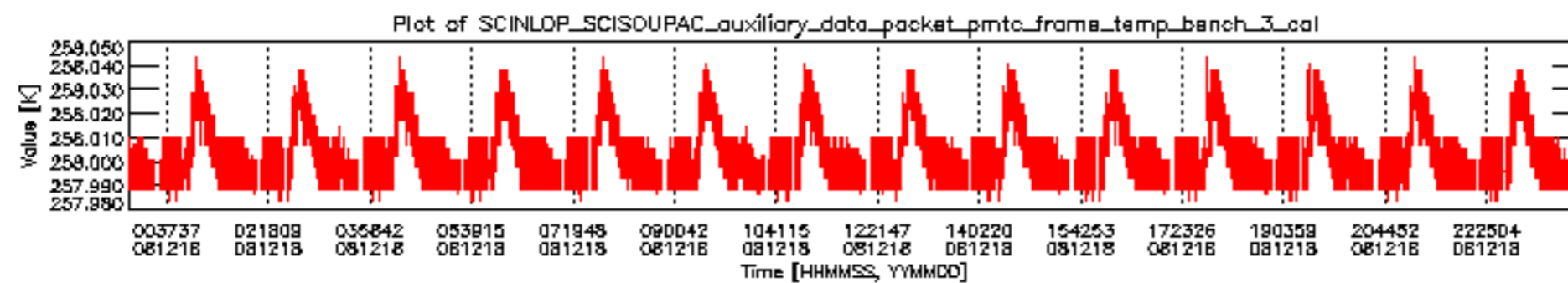


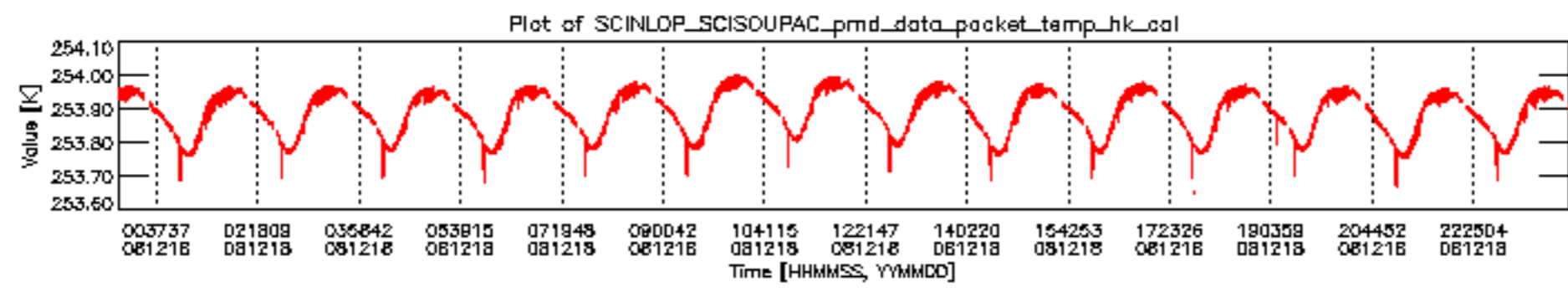
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081218\_8.PNG

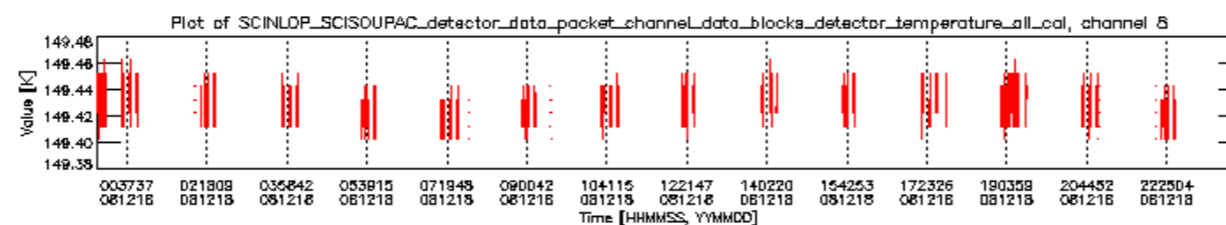
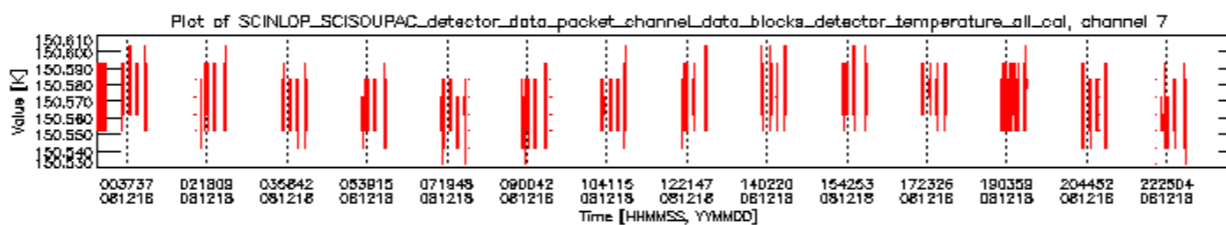
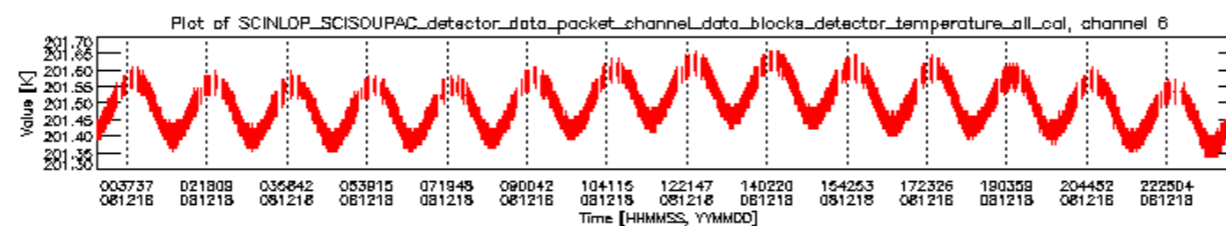
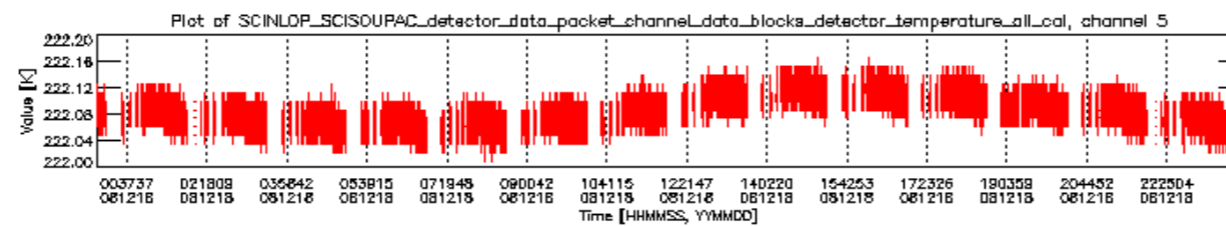
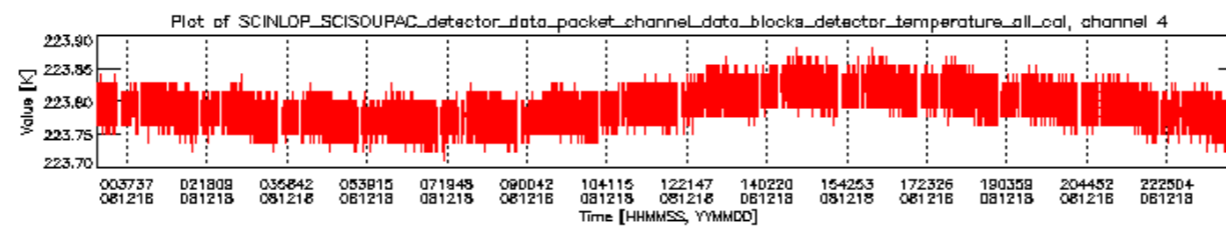
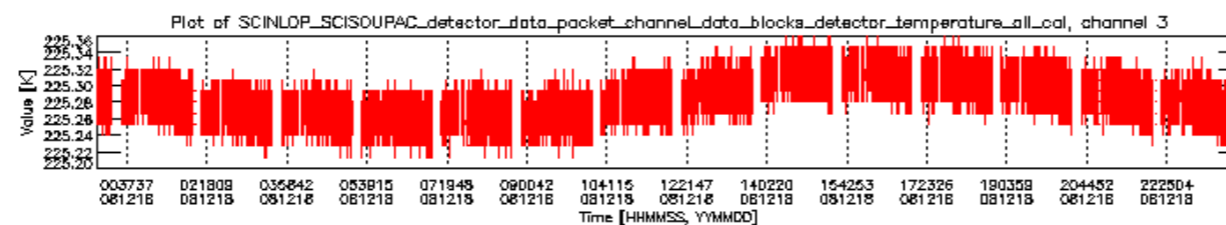
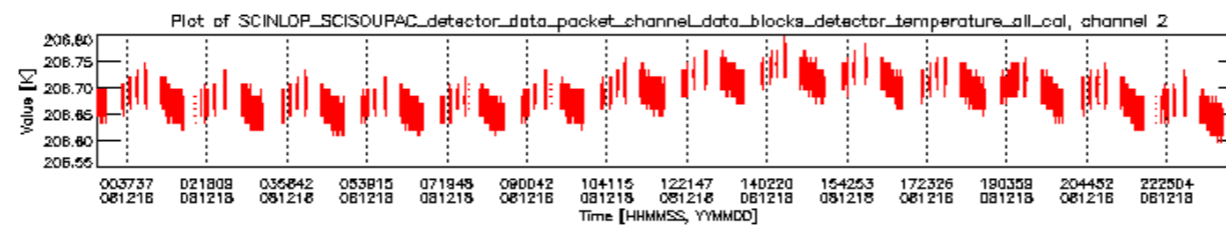
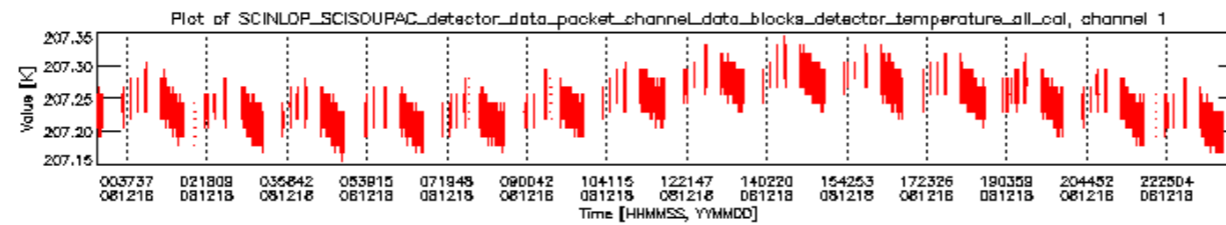














Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 18DEC2008.  
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