

# 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	08APR2009 04:12:11
Data source version	KSPT_L0/4303-N
Processing scope for products	04APR2009 00:00:00 to 05APR2009 00:00:00
Start time of first product within scope	03APR2009 23:21:30
Stop time of last product within scope	05APR2009 00:32:20
Total number of level 0 products	17
Number of level 0 products with errors	4

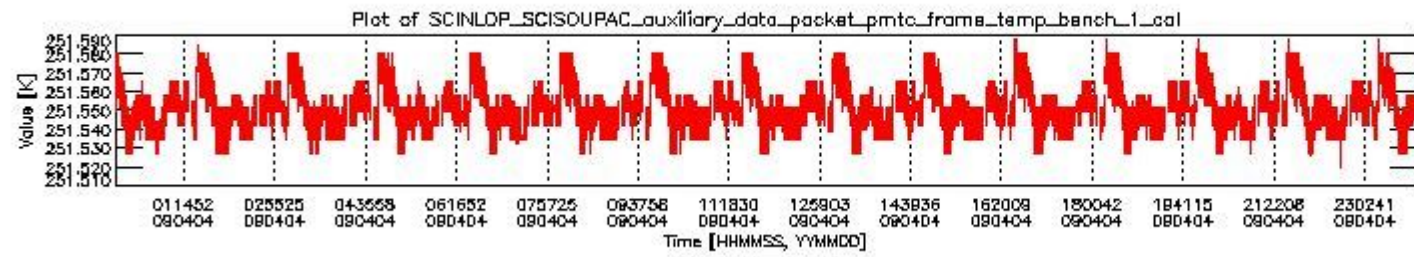
### 0.1.2 Summary per product

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

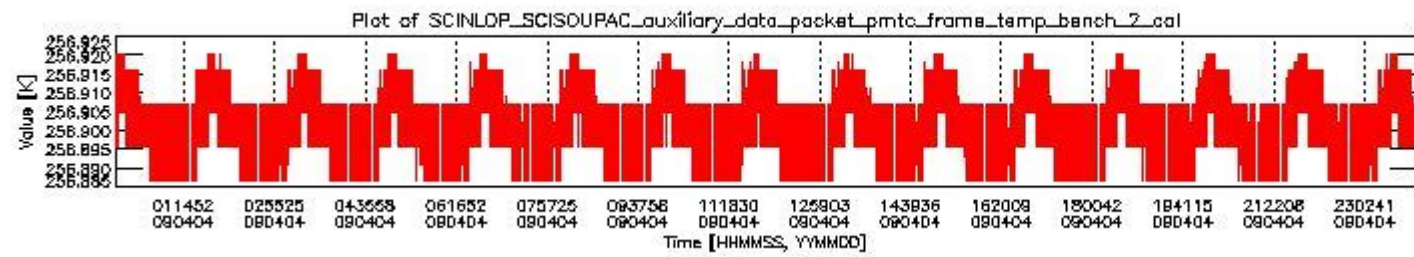
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090403_232130_000061552077_00459_37086_8881.N1	03APR2009 23:21:30	04APR2009 01:04:05	0	0	0	0	0
1	SCI_NL__OPNPDE20090404_010321_000048792077_00460_37087_8882.N1	04APR2009 01:03:21	04APR2009 02:24:40	0	0	0	0	0
2	SCI_NL__OPNPDE20090404_022331_000055252077_00461_37088_8883.N1	04APR2009 02:23:31	04APR2009 03:55:36	0	0	0	0	0
3	SCI_NL__OPNPDE20090404_035440_000060912077_00462_37089_8884.N1	04APR2009 03:54:40	04APR2009 05:36:12	0	0	0	0	0
4	SCI_NL__OPNPDE20090404_053612_000061042077_00463_37090_8885.N1	04APR2009 05:36:12	04APR2009 07:17:56	0	0	0	0	0
5	SCI_NL__OPNPDK20090404_071647_000041132077_00464_37091_1173.N1	04APR2009 07:16:47	04APR2009 08:25:21	0	0	0	0	0
6	SCI_NL__OPNPDK20090404_082412_000061602077_00465_37092_1174.N1	04APR2009 08:24:12	04APR2009 10:06:52	0	0	0	0	0
7	SCI_NL__OPNPDK20090404_100652_000059112077_00466_37093_1175.N1	04APR2009 10:06:52	04APR2009 11:45:23	0	0	0	0	0
8	SCI_NL__OPNPDK20090404_114523_000059802077_00467_37094_1176.N1	04APR2009 11:45:23	04APR2009 13:25:02	1	1	0	0	0
9	SCI_NL__OPNPDK20090404_132354_000058552077_00468_37095_1177.N1	04APR2009 13:23:54	04APR2009 15:01:29	0	0	0	0	0
10	SCI_NL__OPNPDK20090404_145925_00001802077_00469_37096_1178.N1	04APR2009 14:59:25	04APR2009 15:02:25	1	0	1	0	0
11	SCI_NL__OPNPDK20090404_150225_000057872077_00469_37096_1179.N1	04APR2009 15:02:25	04APR2009 16:38:52	1	1	0	0	0
12	SCI_NL__OPNPDK20090404_163700_000061682077_00470_37097_1180.N1	04APR2009 16:37:00	04APR2009 18:19:48	1	1	0	0	0
13	SCI_NL__OPNPDK20090404_181757_000060362077_00471_37098_1181.N1	04APR2009 18:17:57	04APR2009 19:58:32	0	0	0	0	0
14	SCI_NL__OPNPDE20090404_195640_000038262077_00472_37099_8886.N1	04APR2009 19:56:40	04APR2009 21:00:26	0	0	0	0	0
15	SCI_NL__OPNPDE20090404_210530_000063022077_00472_37099_8887.N1	04APR2009 21:05:30	04APR2009 22:50:32	0	0	0	0	0
16	SCI_NL__OPNPDE20090404_224945_000061552077_00473_37100_8888.N1	04APR2009 22:49:45	05APR2009 00:32:20	0	0	0	0	0

## 0.2 Product Quality Indicators

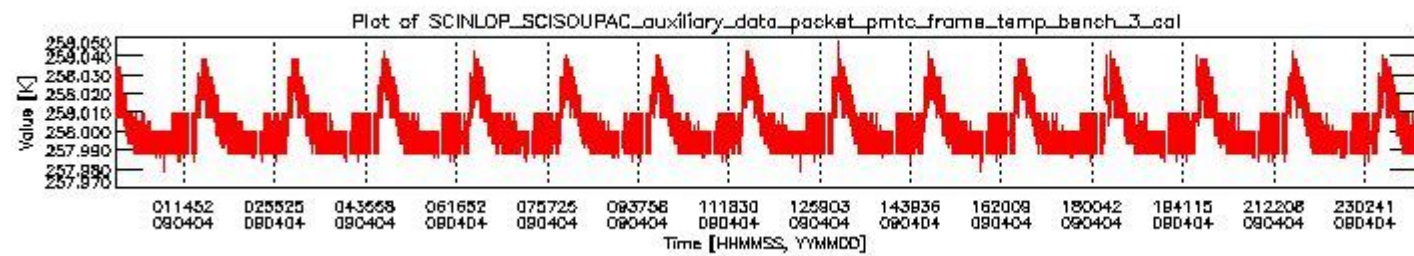
This section shows information about product quality, currently temperatures.



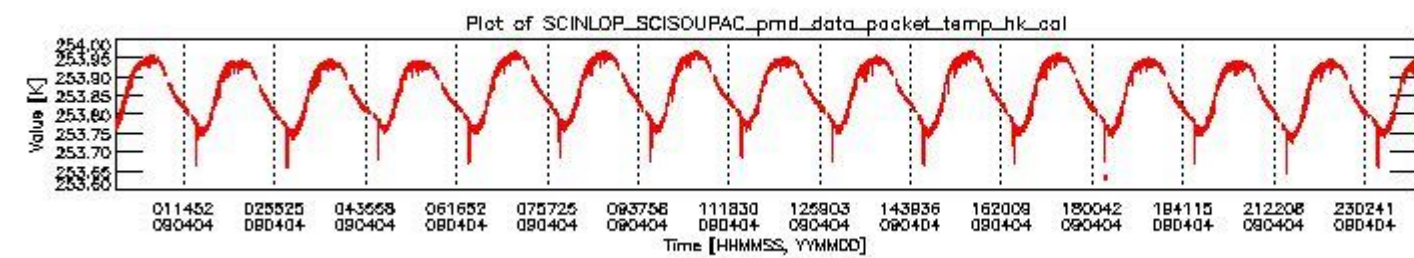
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090404\_0.PNG



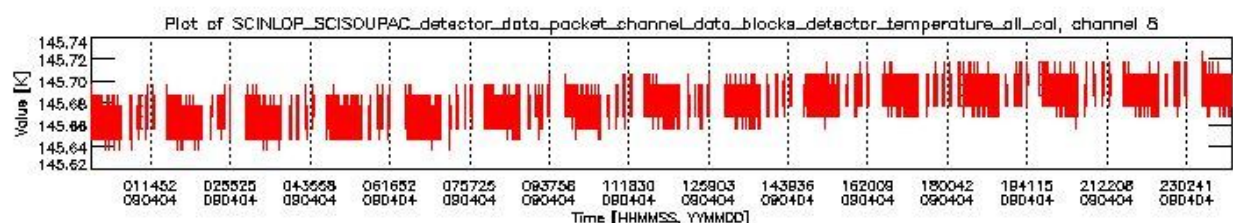
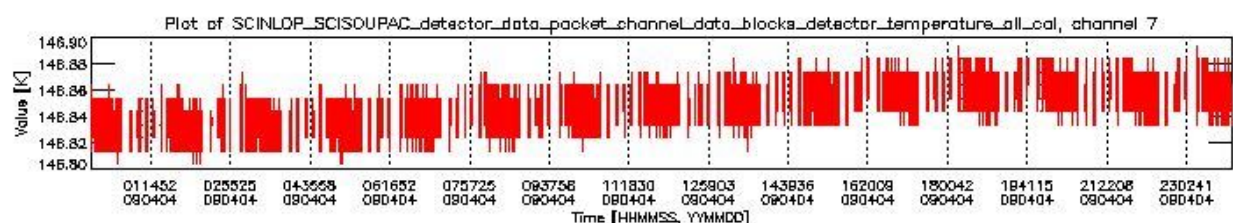
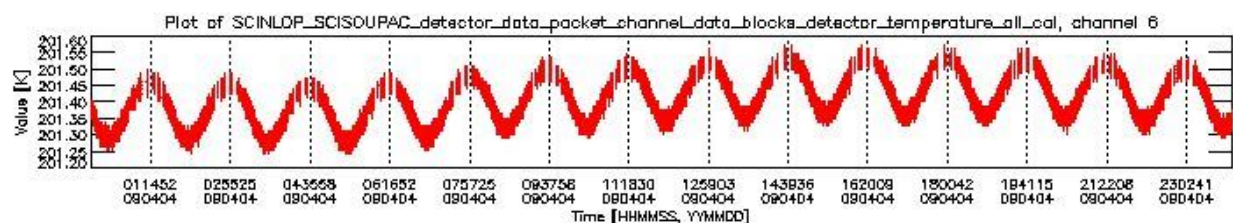
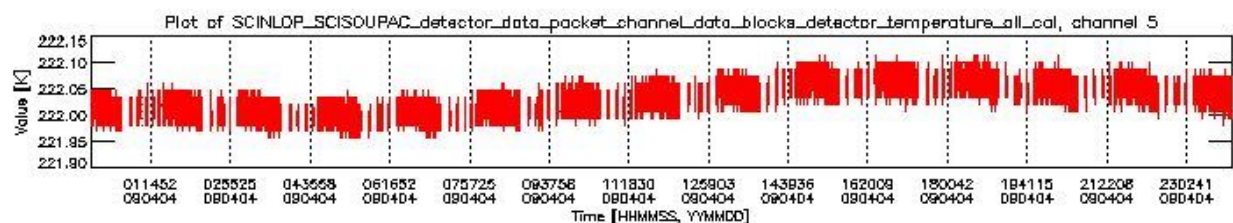
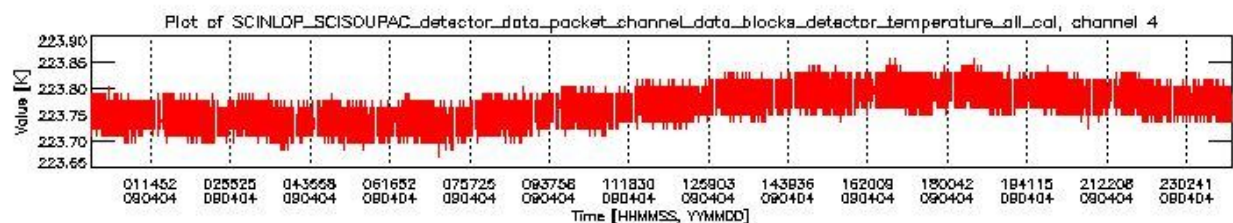
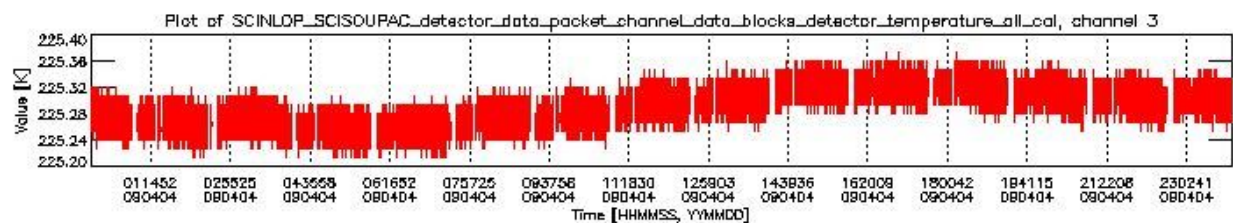
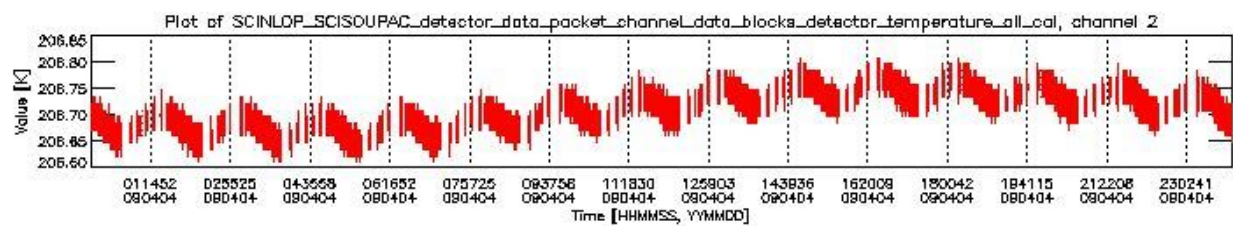
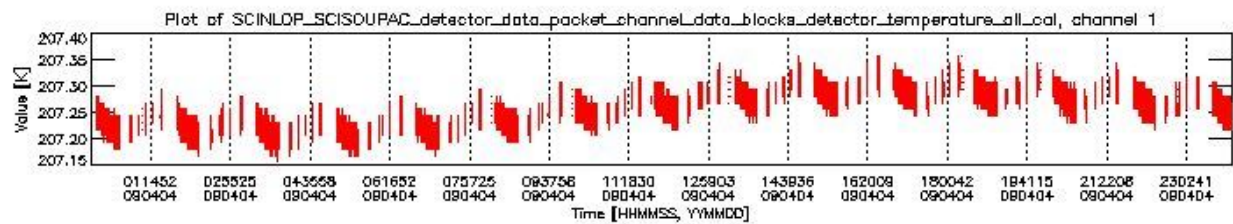
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090404\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090404\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090404\_3.PNG

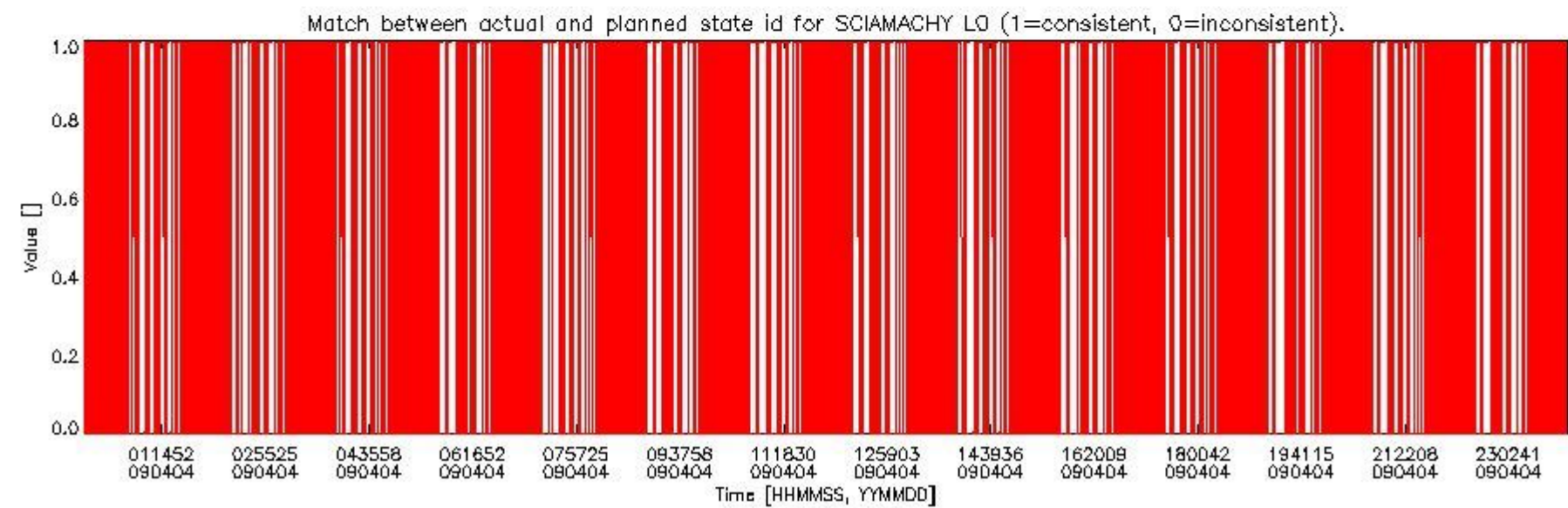
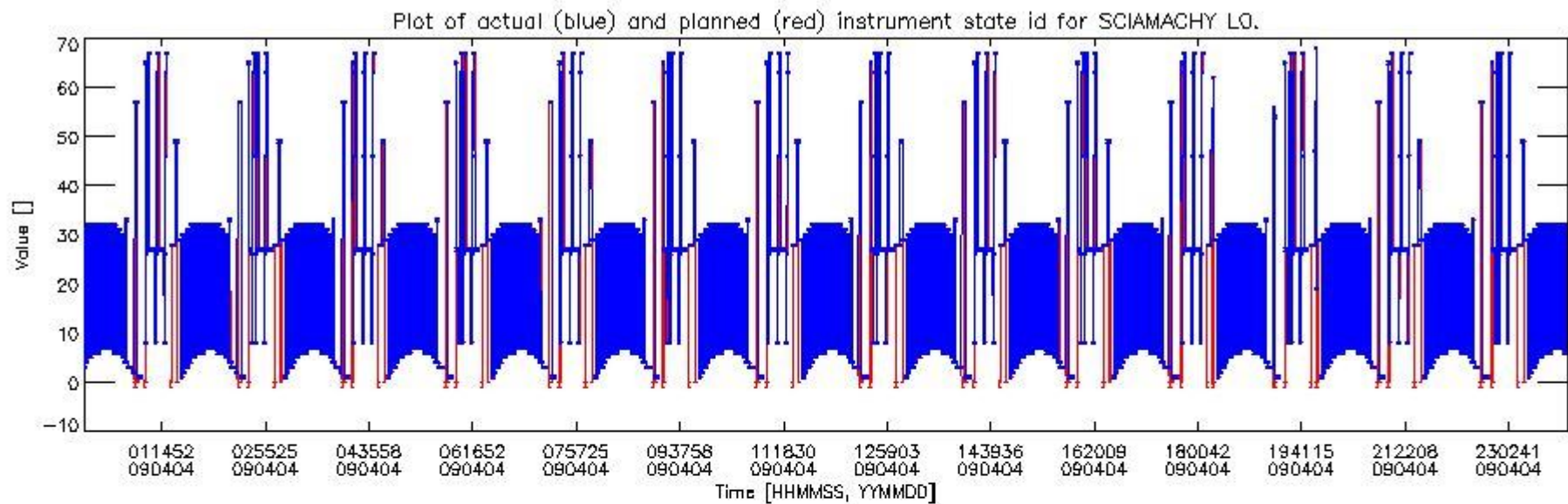


### 0.3 State monitoring

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: **58825**

#	Actual time	Actual value	Planned time	Planned value
0	04APR2009 00:00:19.051597	31	04APR2009 00:00:19.051597	3
1	04APR2009 00:00:19.676578	31	04APR2009 00:00:19.676578	3
2	04APR2009 00:00:20.051591	31	04APR2009 00:00:20.051591	3
3	04APR2009 00:00:20.426564	31	04APR2009 00:00:20.426564	3
4	04APR2009 00:00:20.989063	31	04APR2009 00:00:20.989063	3
5	04APR2009 00:00:21.364076	31	04APR2009 00:00:21.364076	3
6	04APR2009 00:00:21.739089	31	04APR2009 00:00:21.739089	3
7	04APR2009 00:00:22.114062	31	04APR2009 00:00:22.114062	3
8	04APR2009 00:00:22.676562	31	04APR2009 00:00:22.676562	3
9	04APR2009 00:00:23.051575	31	04APR2009 00:00:23.051575	3
10	04APR2009 00:00:23.426588	31	04APR2009 00:00:23.426588	3
11	04APR2009 00:00:23.801561	31	04APR2009 00:00:23.801561	3
12	04APR2009 00:00:24.051569	31	04APR2009 00:00:24.051569	3
13	04APR2009 00:00:24.364060	31	04APR2009 00:00:24.364060	3
14	04APR2009 00:00:24.739073	31	04APR2009 00:00:24.739073	3
15	04APR2009 00:00:25.114086	31	04APR2009 00:00:25.114086	3
16	04APR2009 00:00:25.489059	31	04APR2009 00:00:25.489059	3
17	04APR2009 00:00:26.051559	31	04APR2009 00:00:26.051559	3
18	04APR2009 00:00:26.426572	31	04APR2009 00:00:26.426572	3
19	04APR2009 00:00:26.801585	31	04APR2009 00:00:26.801585	3
	...	...	...	...

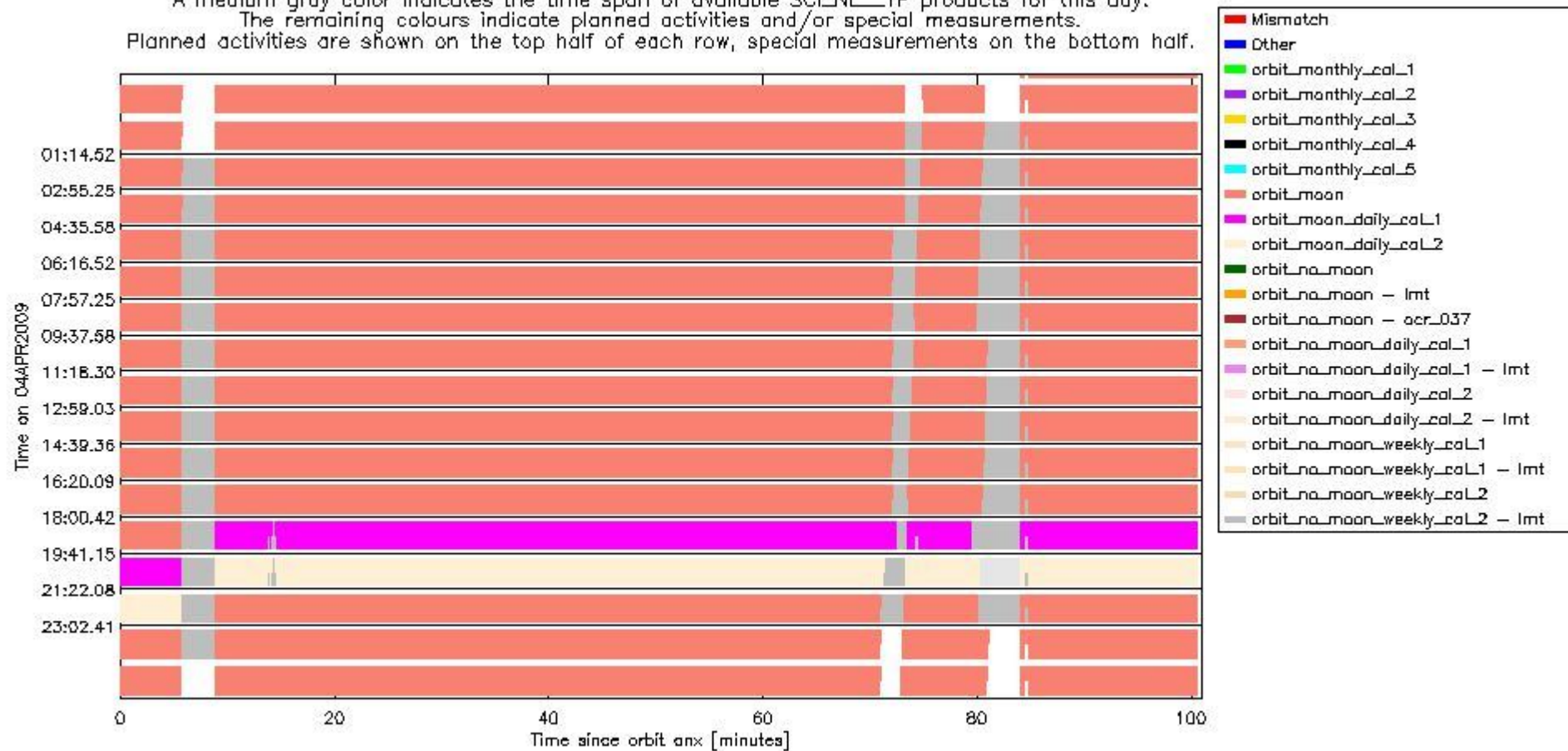


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090404\_5.PNG

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 O4APR2009.  
 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\_20090404\_6.PNG

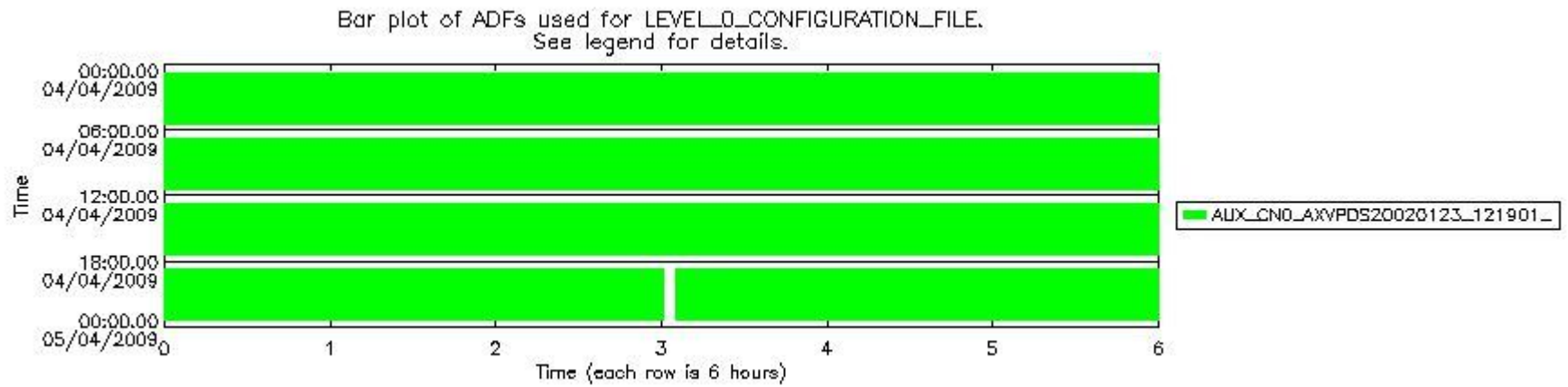
## 0.4 ADF monitoring

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

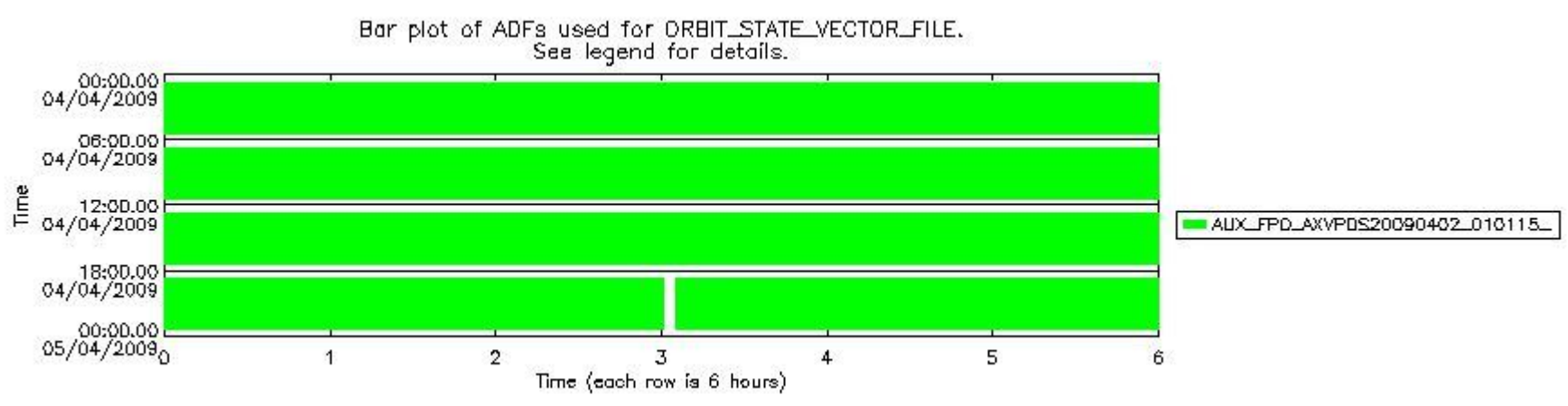
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

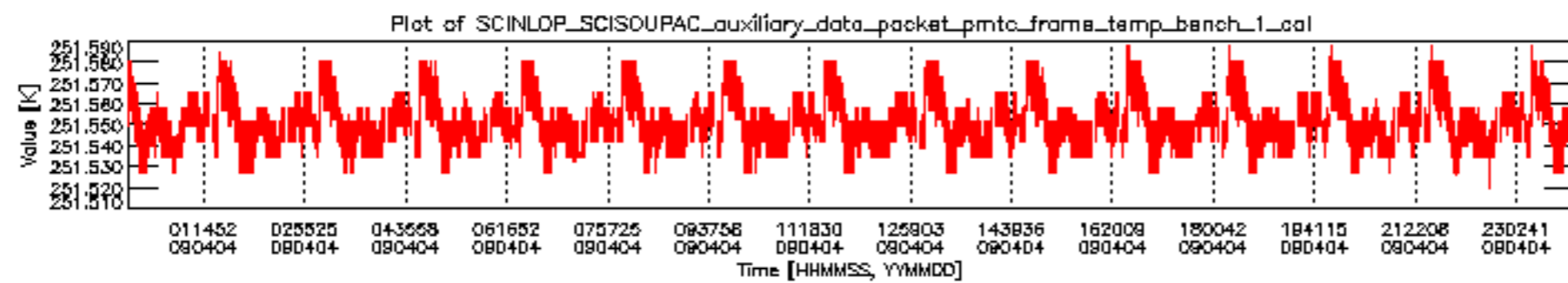
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090402_010115_20090401_193543_20090411_210154



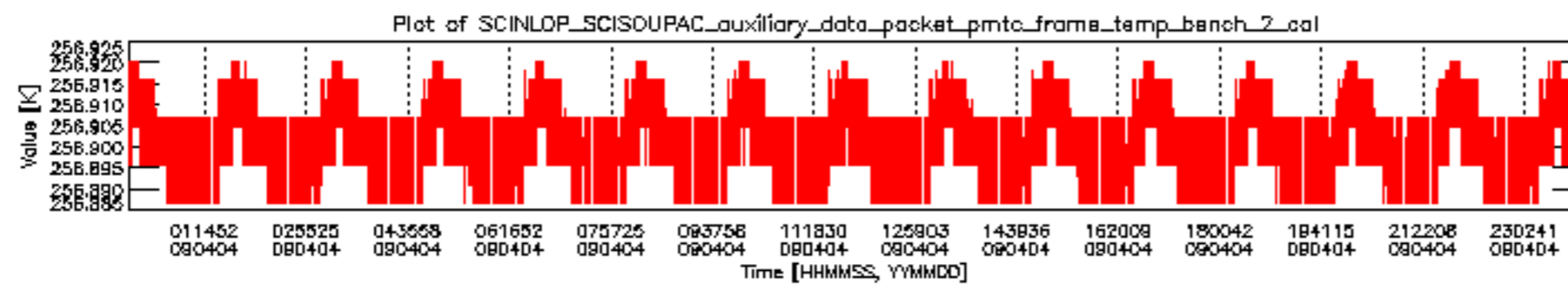
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090404\_7.PNG

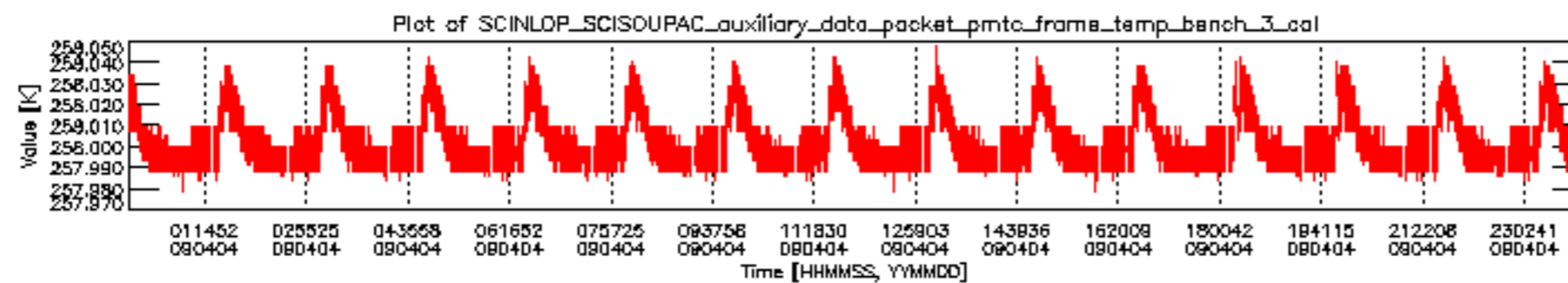


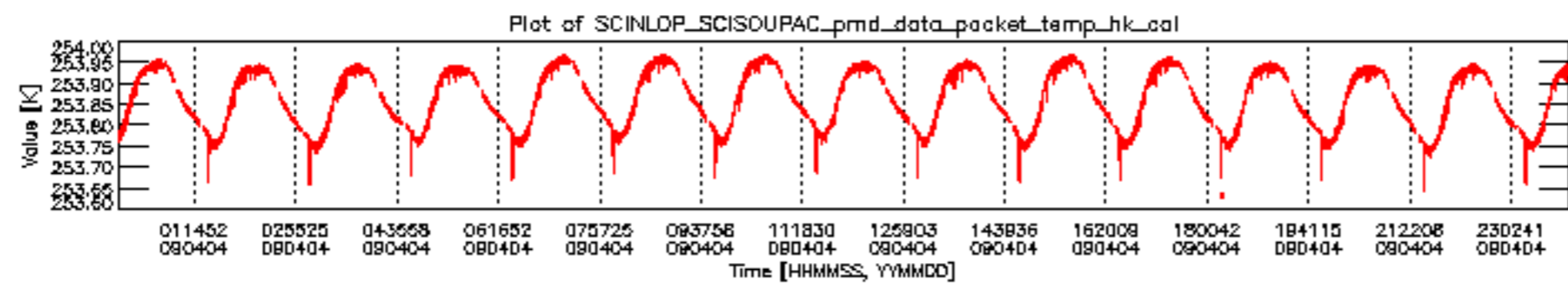
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090404\_8.PNG

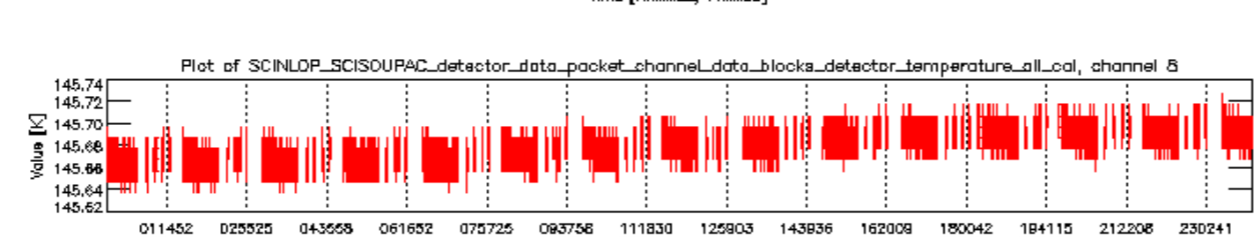
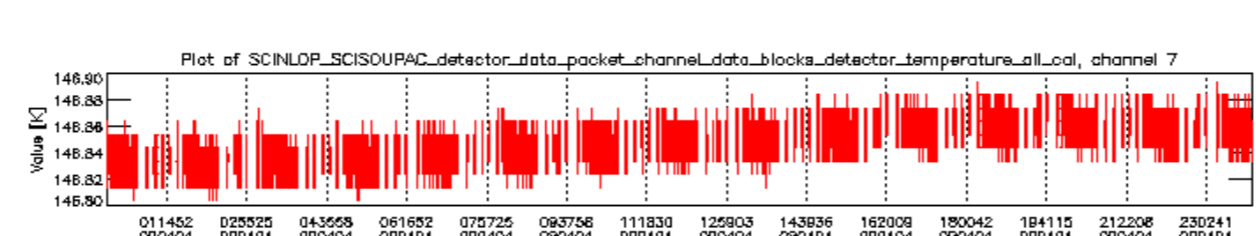
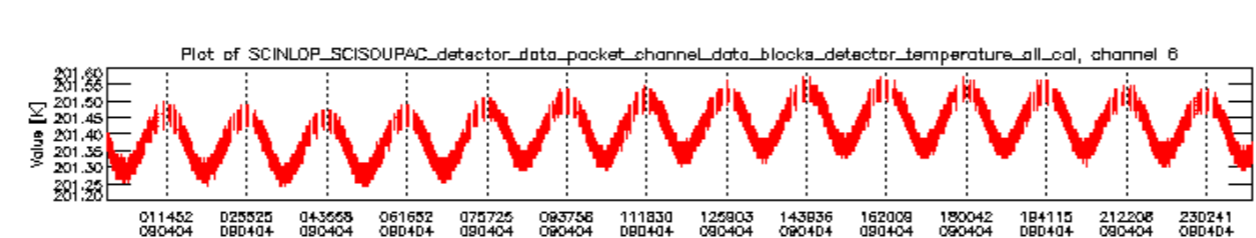
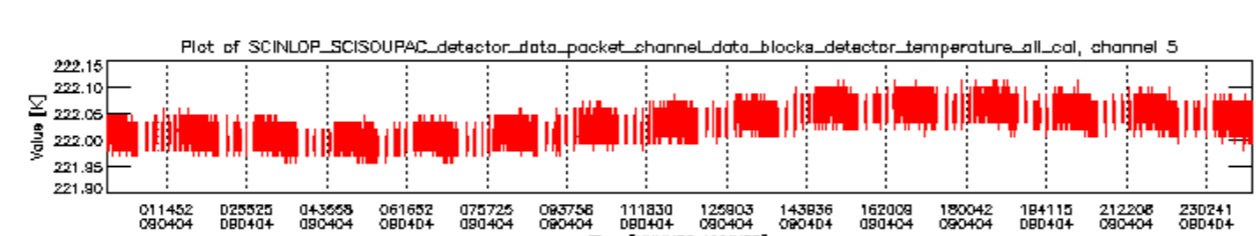
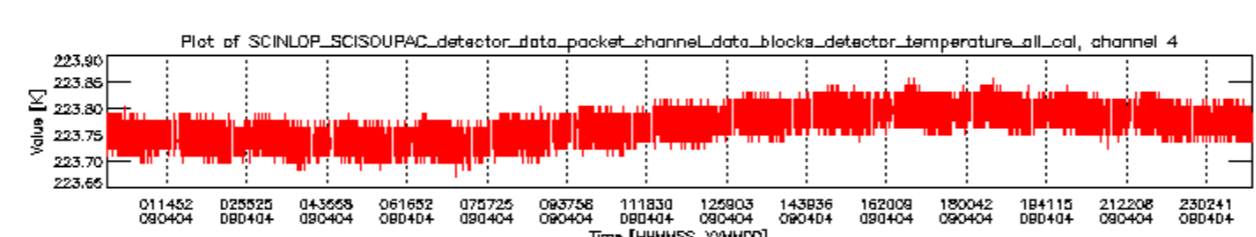
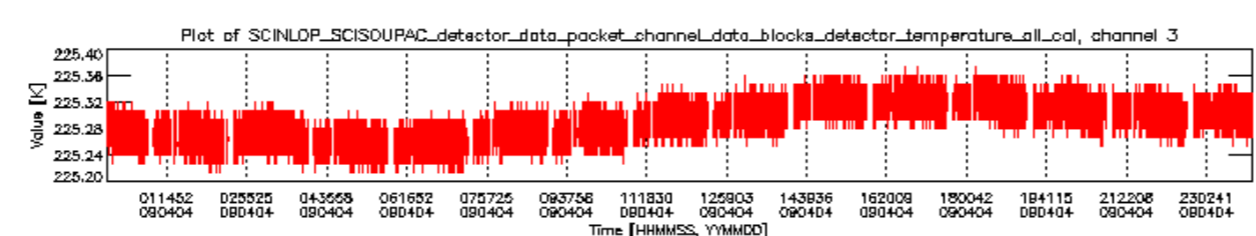
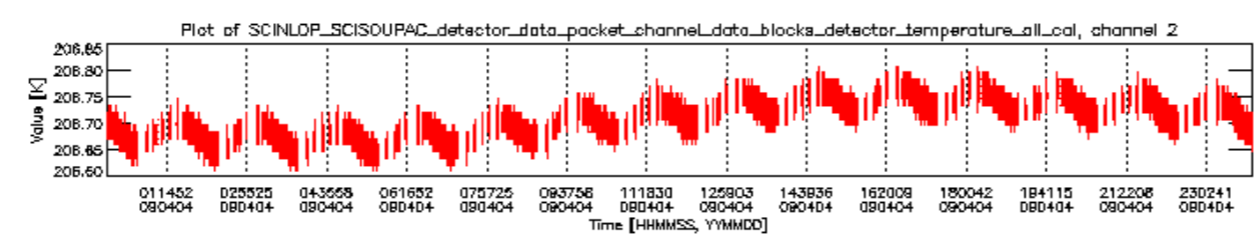
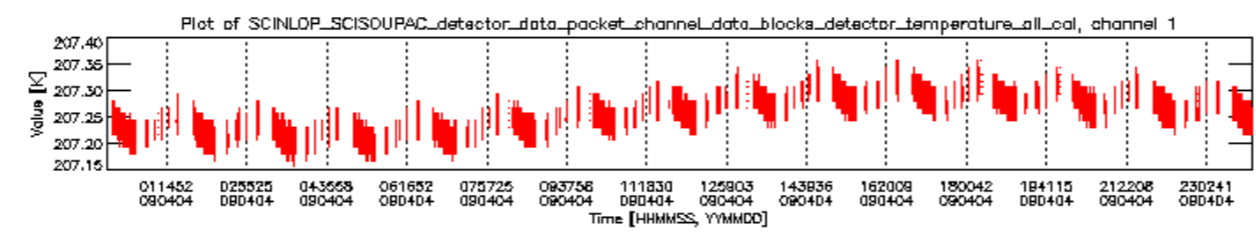


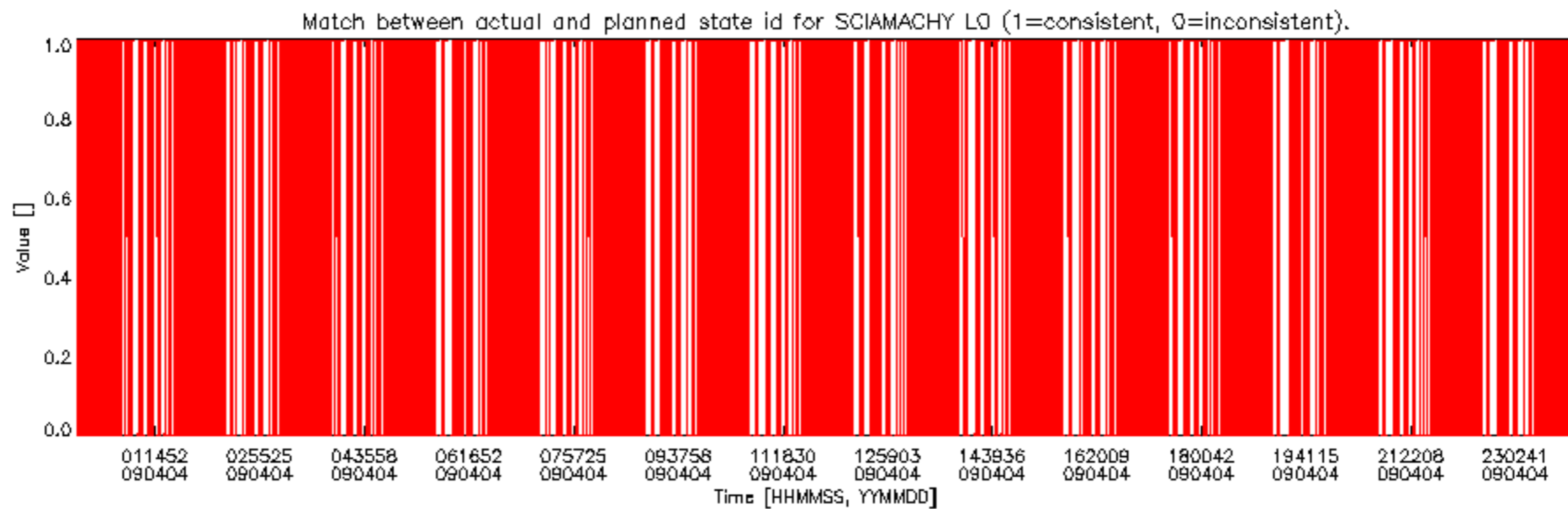
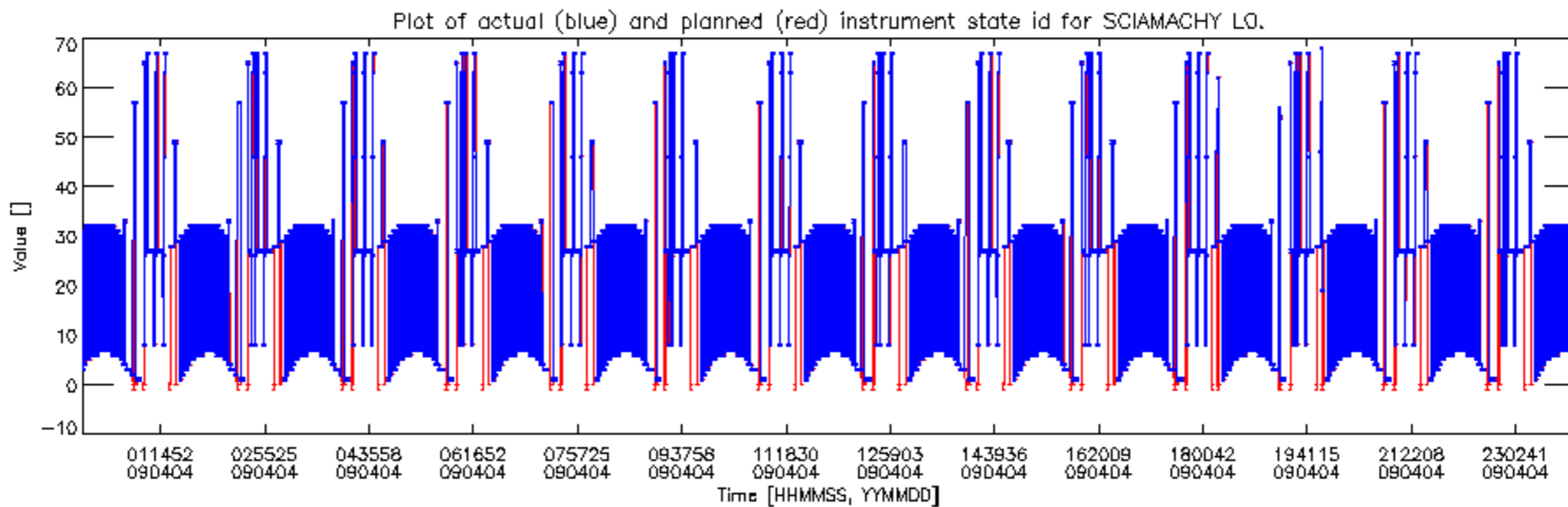












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 04APR2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
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