

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	21OCT2008 05:29:46
Data source version	KSPT_L0/4303-N
Processing scope for products	17OCT2008 00:00:00 to 18OCT2008 00:00:00
Start time of first product within scope	16OCT2008 23:34:07
Stop time of last product within scope	18OCT2008 00:37:12
Total number of level 0 products	16
Number of level 0 products with errors	1

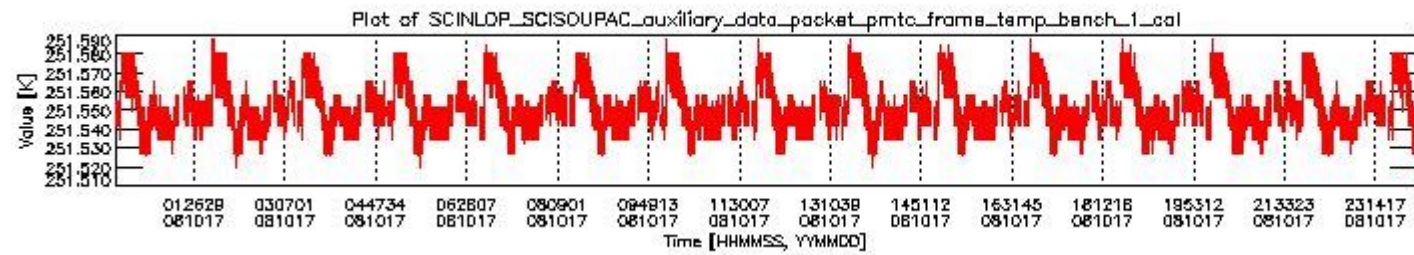
0.1.2 Summary per product

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

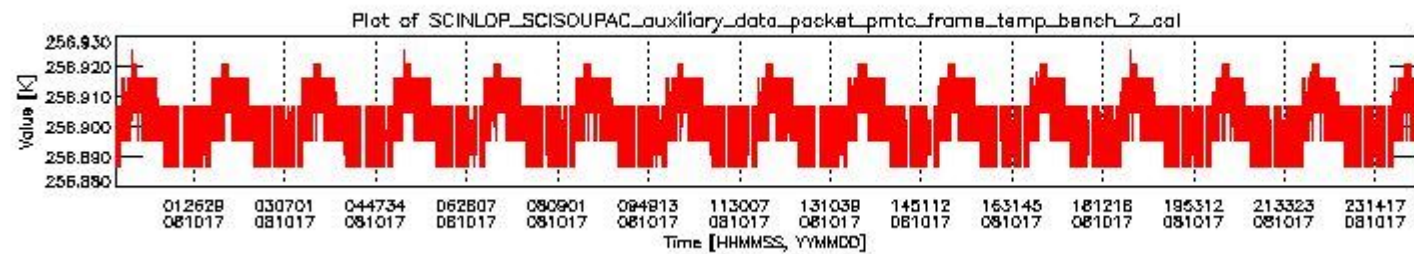
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081016_233407_000056762073_00044_34667_7721.N1	16OCT2008 23:34:07	17OCT2008 01:08:42	0	0	0	0	0
1	SCI_NL__OPNPDE20081017_011443_000045612073_00045_34668_7722.N1	17OCT2008 01:14:43	17OCT2008 02:30:44	0	0	0	0	0
2	SCI_NL__OPNPDE20081017_023044_000058432073_00046_34669_7723.N1	17OCT2008 02:30:44	17OCT2008 04:08:07	0	0	0	0	0
3	SCI_NL__OPNPDE20081017_040711_000061052073_00047_34670_7724.N1	17OCT2008 04:07:11	17OCT2008 05:48:57	0	0	0	0	0
4	SCI_NL__OPNPDK20081017_054748_000041012073_00048_34671_9690.N1	17OCT2008 05:47:48	17OCT2008 06:56:09	0	0	0	0	0
5	SCI_NL__OPNPDK20081017_065514_000062292073_00049_34672_9691.N1	17OCT2008 06:55:14	17OCT2008 08:39:03	0	0	0	0	0
6	SCI_NL__OPNPDK20081017_083754_000059682073_00050_34673_9692.N1	17OCT2008 08:37:54	17OCT2008 10:17:22	0	0	0	0	0
7	SCI_NL__OPNPDK20081017_101626_000061052073_00051_34674_9693.N1	17OCT2008 10:16:26	17OCT2008 11:58:11	1	1	0	0	0
8	SCI_NL__OPNPDK20081017_115703_000059682073_00052_34675_9694.N1	17OCT2008 11:57:03	17OCT2008 13:36:30	0	0	0	0	0
9	SCI_NL__OPNPDK20081017_133535_000059812073_00053_34676_9695.N1	17OCT2008 13:35:35	17OCT2008 15:15:15	0	0	0	0	0
10	SCI_NL__OPNPDK20081017_151407_000059252073_00054_34677_9696.N1	17OCT2008 15:14:07	17OCT2008 16:52:51	0	0	0	0	0
11	SCI_NL__OPNPDK20081017_165155_000058422073_00055_34678_9697.N1	17OCT2008 16:51:55	17OCT2008 18:29:17	0	0	0	0	0
12	SCI_NL__OPNPDK20081017_182821_000060362073_00056_34679_9698.N1	17OCT2008 18:28:21	17OCT2008 20:08:58	0	0	0	0	0
13	SCI_NL__OPNPDE20081017_200706_000041532073_00057_34680_7725.N1	17OCT2008 20:07:06	17OCT2008 21:16:19	0	0	0	0	0
14	SCI_NL__OPNPDE20081017_212200_000060362073_00057_34680_7726.N1	17OCT2008 21:22:00	17OCT2008 23:02:36	0	0	0	0	0
15	SCI_NL__OPNPDE20081017_230236_000056762073_00058_34681_7727.N1	17OCT2008 23:02:36	18OCT2008 00:37:12	0	0	0	0	0

0.2 Product Quality Indicators

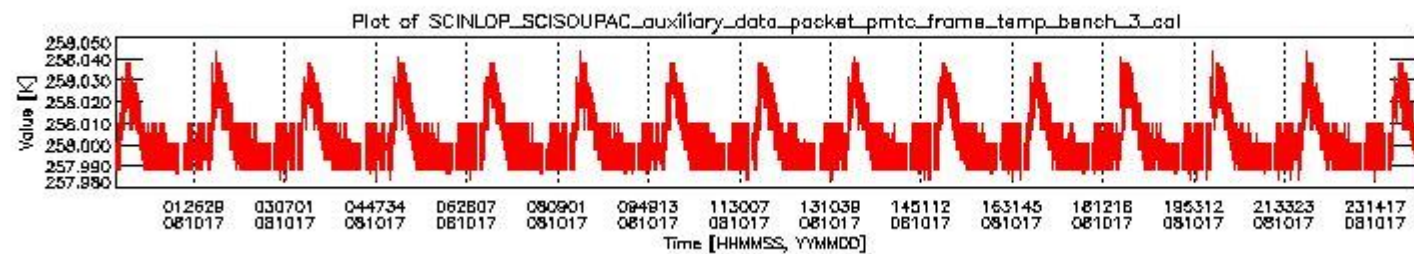
This section shows information about product quality, currently temperatures.



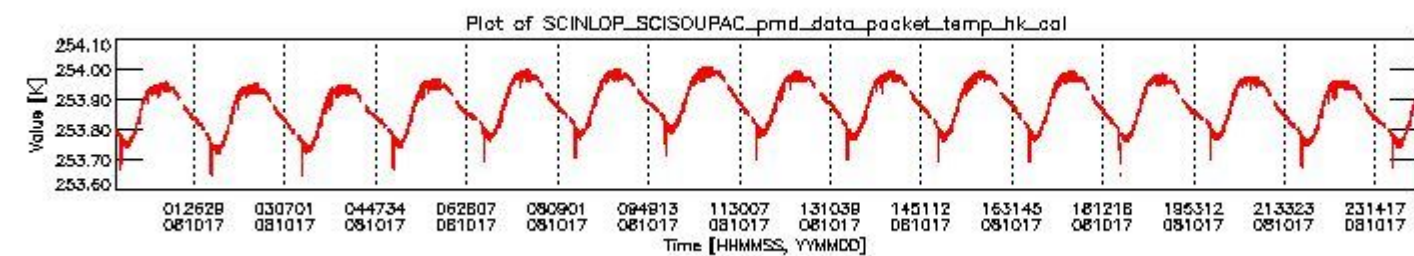
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081017_0.PNG



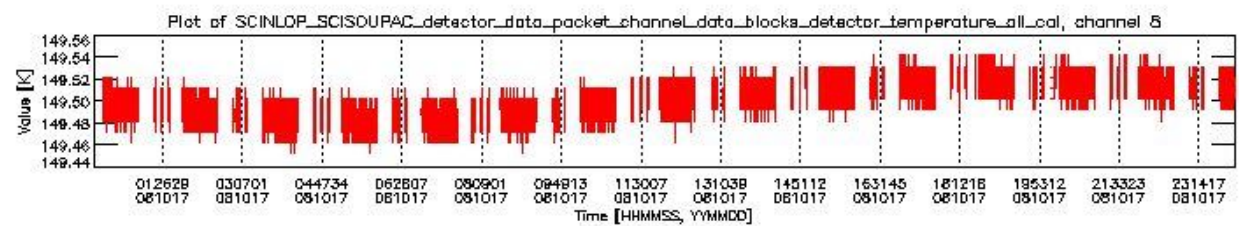
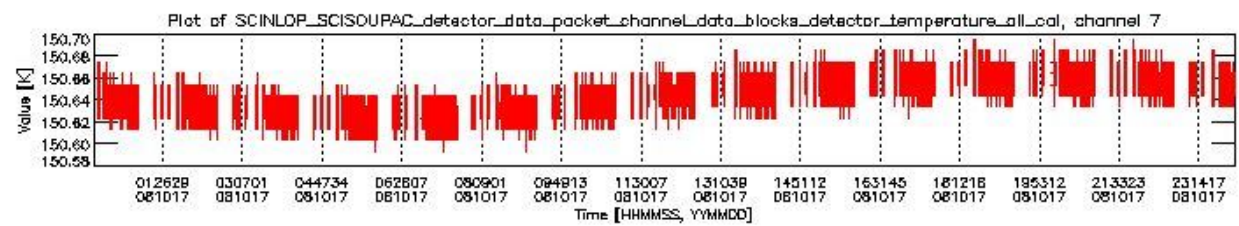
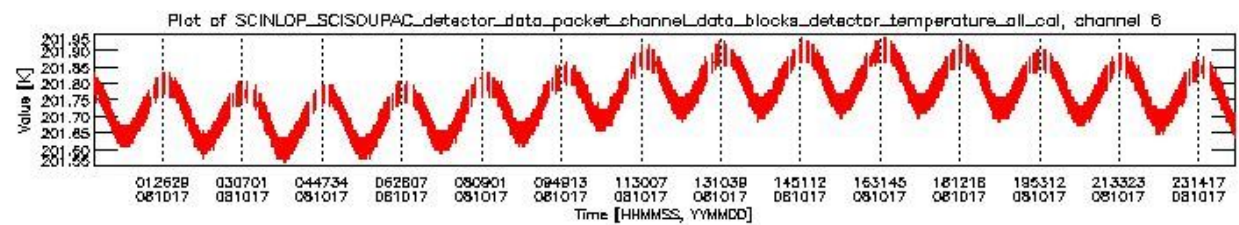
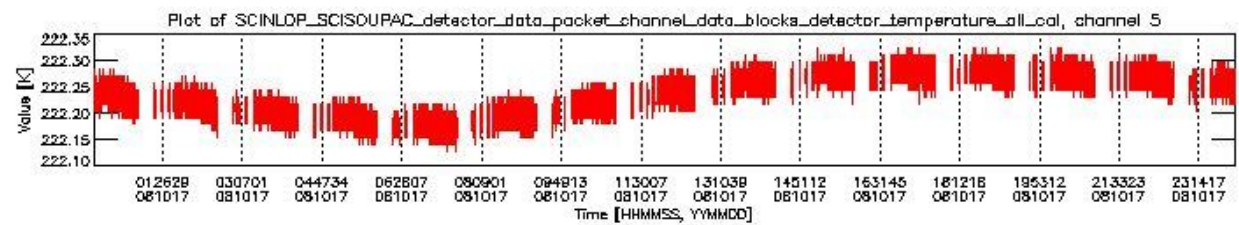
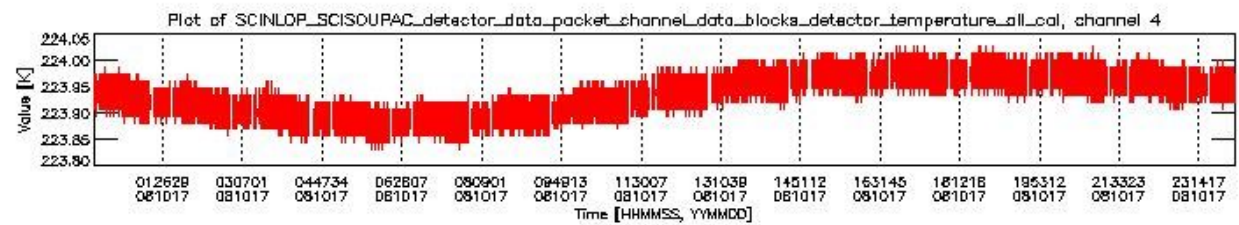
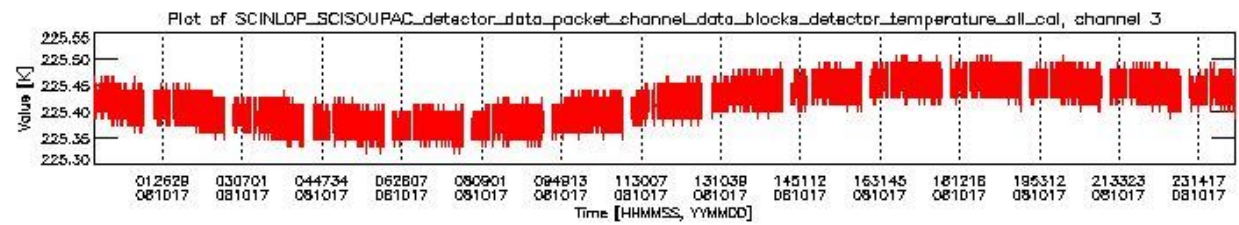
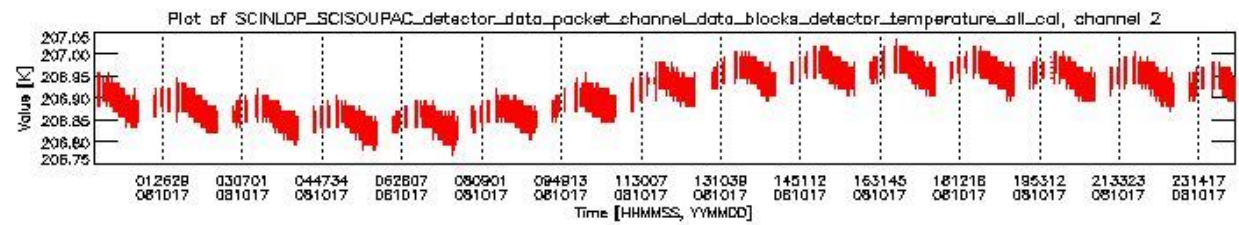
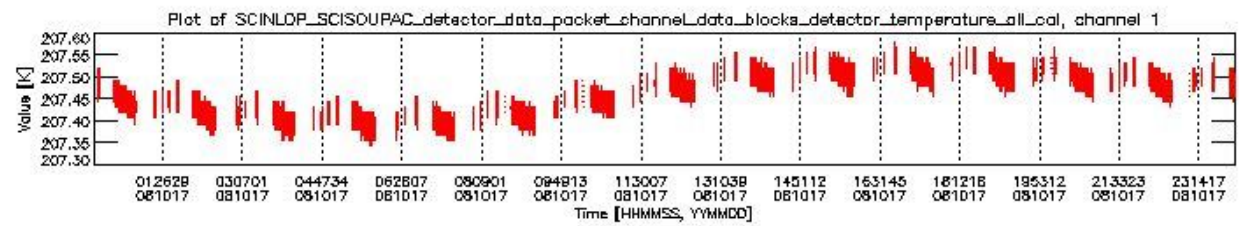
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081017_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20081017_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20081017_3.PNG

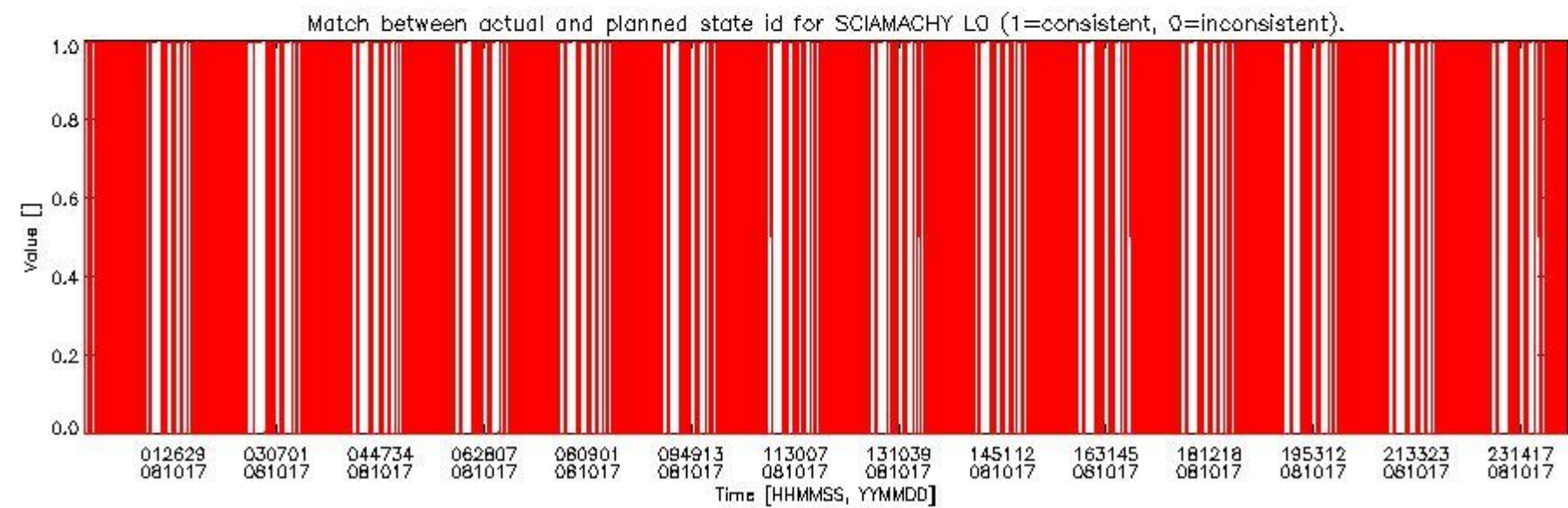
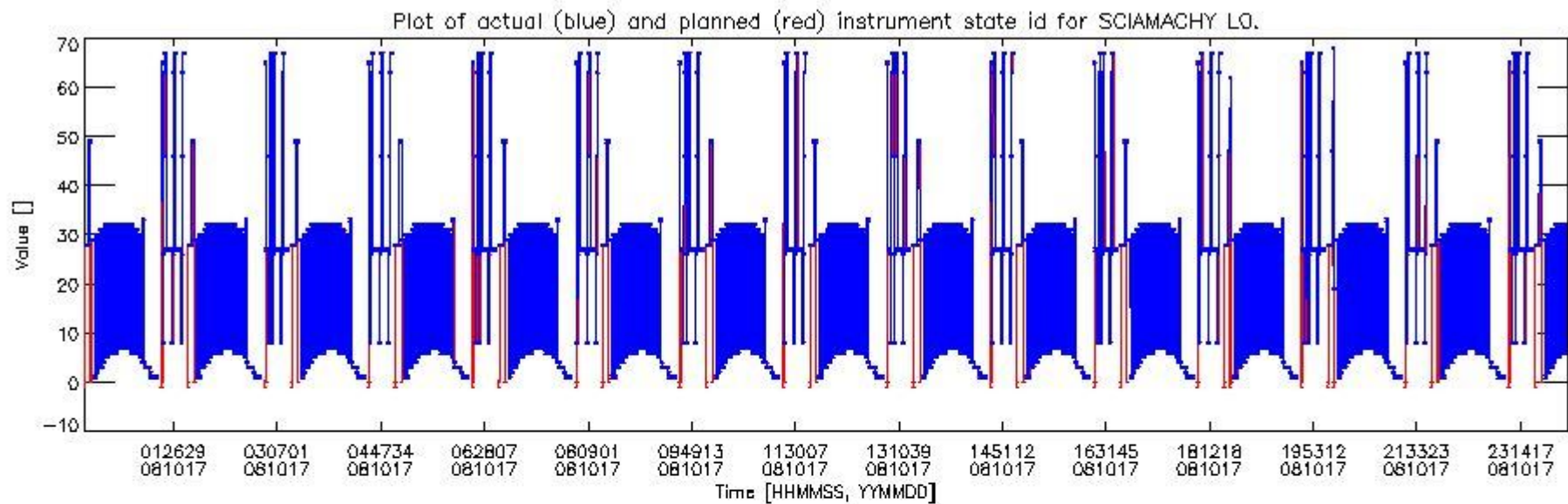


0.3 State monitoring

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: **45068**

#	Actual time	Actual value	Planned time	Planned value
0	17OCT2008 00:03:33.931771	49	17OCT2008 00:03:33.931771	28
1	17OCT2008 00:03:34.119297	49	17OCT2008 00:03:34.119297	28
2	17OCT2008 00:03:34.181779	49	17OCT2008 00:03:34.181779	28
3	17OCT2008 00:03:34.244302	49	17OCT2008 00:03:34.244302	28
4	17OCT2008 00:03:34.306784	49	17OCT2008 00:03:34.306784	28
5	17OCT2008 00:03:34.369266	49	17OCT2008 00:03:34.369266	28
6	17OCT2008 00:03:34.431788	49	17OCT2008 00:03:34.431788	28
7	17OCT2008 00:03:34.494270	49	17OCT2008 00:03:34.494270	28
8	17OCT2008 00:03:34.556792	49	17OCT2008 00:03:34.556792	28
9	17OCT2008 00:03:34.619274	49	17OCT2008 00:03:34.619274	28
10	17OCT2008 00:03:34.681797	49	17OCT2008 00:03:34.681797	28
11	17OCT2008 00:03:34.744279	49	17OCT2008 00:03:34.744279	28
12	17OCT2008 00:03:34.806801	49	17OCT2008 00:03:34.806801	28
13	17OCT2008 00:03:34.869283	49	17OCT2008 00:03:34.869283	28
14	17OCT2008 00:03:34.931765	49	17OCT2008 00:03:34.931765	28
15	17OCT2008 00:03:34.994287	49	17OCT2008 00:03:34.994287	28
16	17OCT2008 00:03:35.056770	49	17OCT2008 00:03:35.056770	28
17	17OCT2008 00:03:35.119292	49	17OCT2008 00:03:35.119292	28
18	17OCT2008 00:03:35.181774	49	17OCT2008 00:03:35.181774	28
19	17OCT2008 00:03:35.244296	49	17OCT2008 00:03:35.244296	28
...

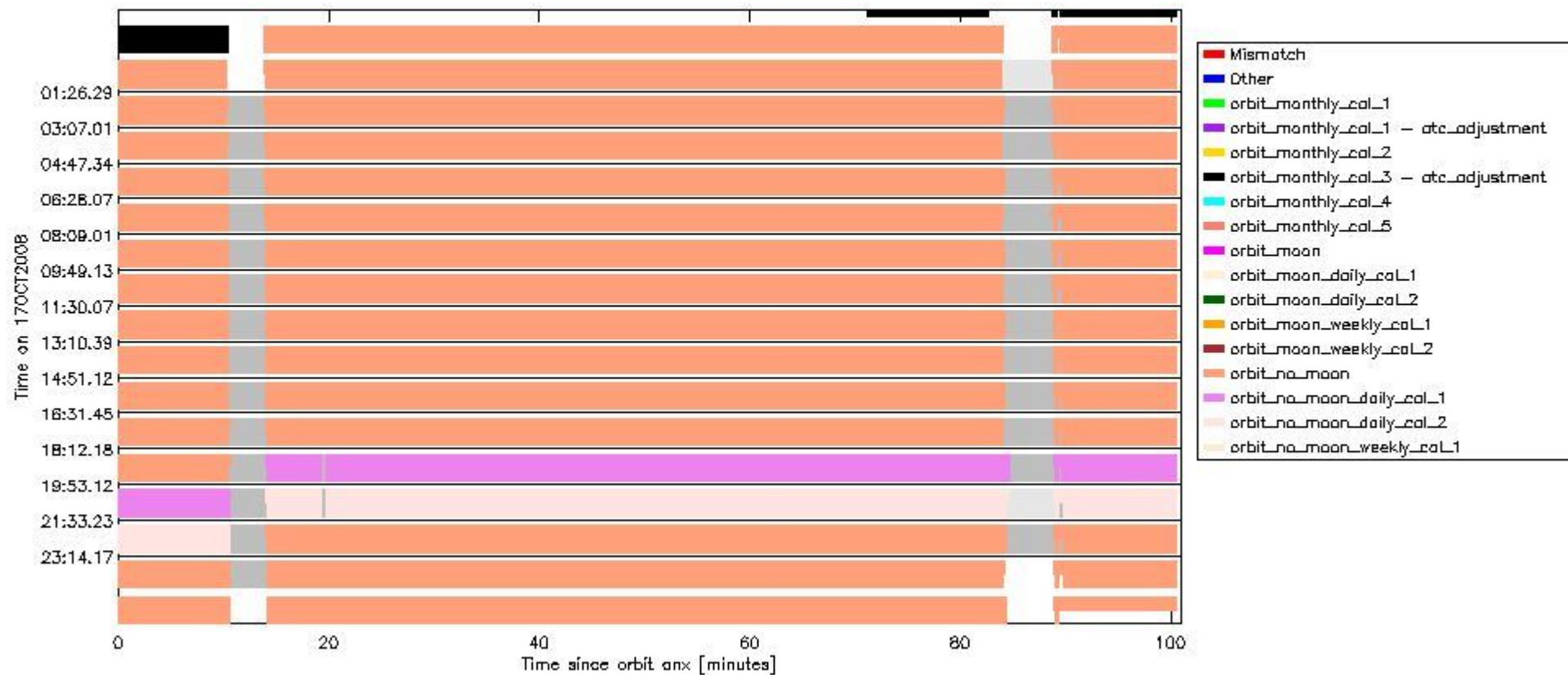


sciamachy_daily_report_level0_KSPT_L0_4303_N_20081017_5.PNG

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 17OCT2008.
 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_20081017_6.PNG

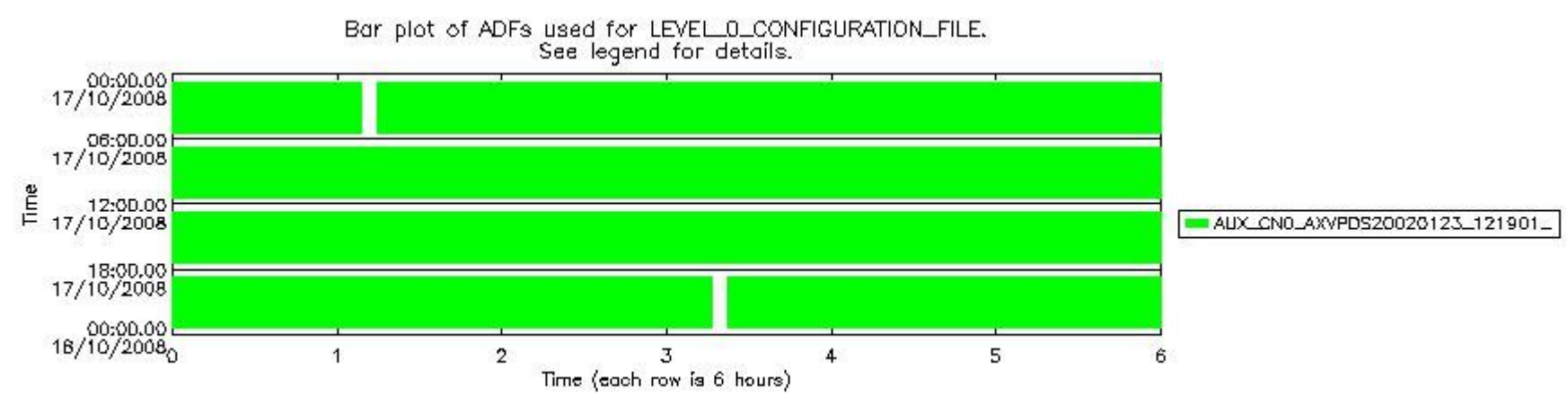
0.4 ADF monitoring

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

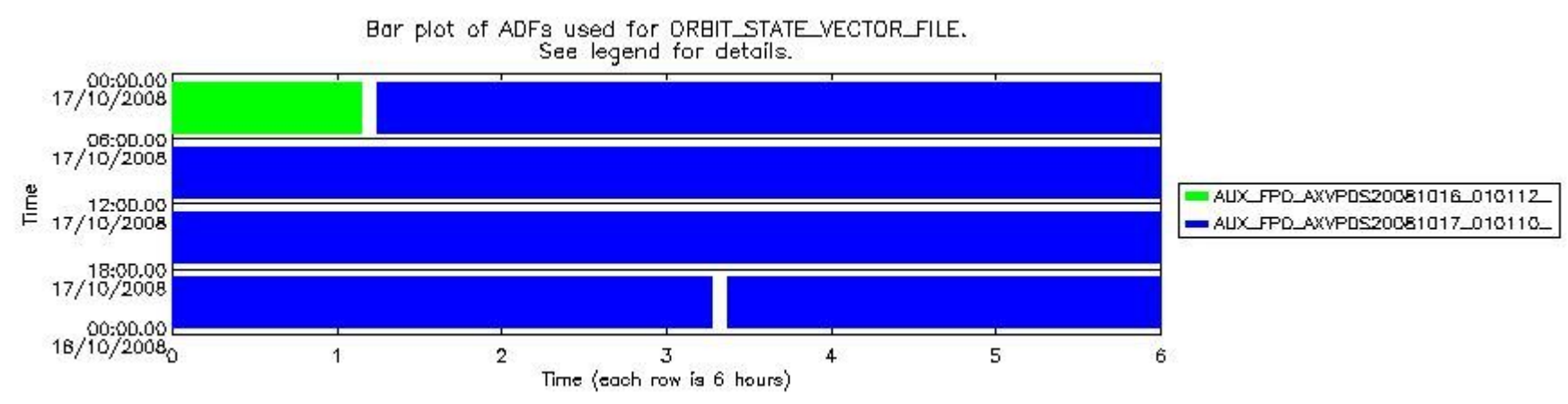
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

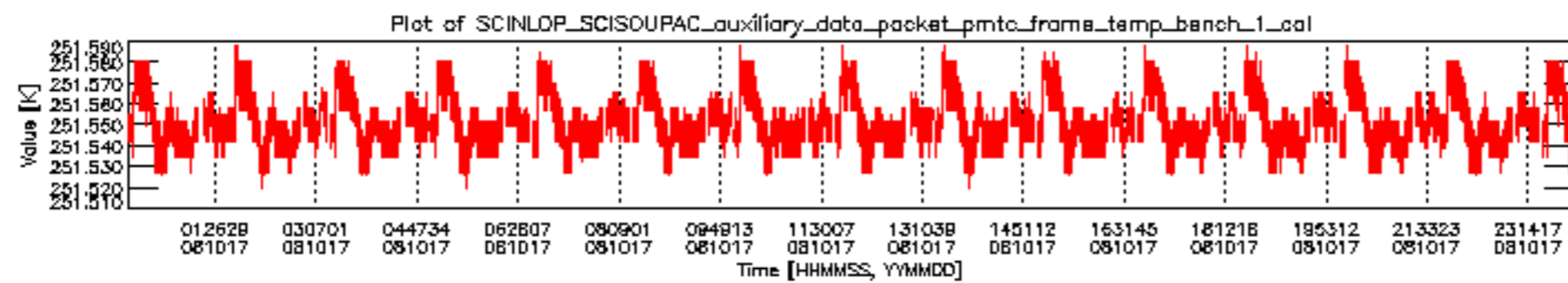
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20081016_010112_20081015_191540_20081025_204153
2	AUX_FPO_AXVPDS20081017_010110_20081016_184403_20081026_201016

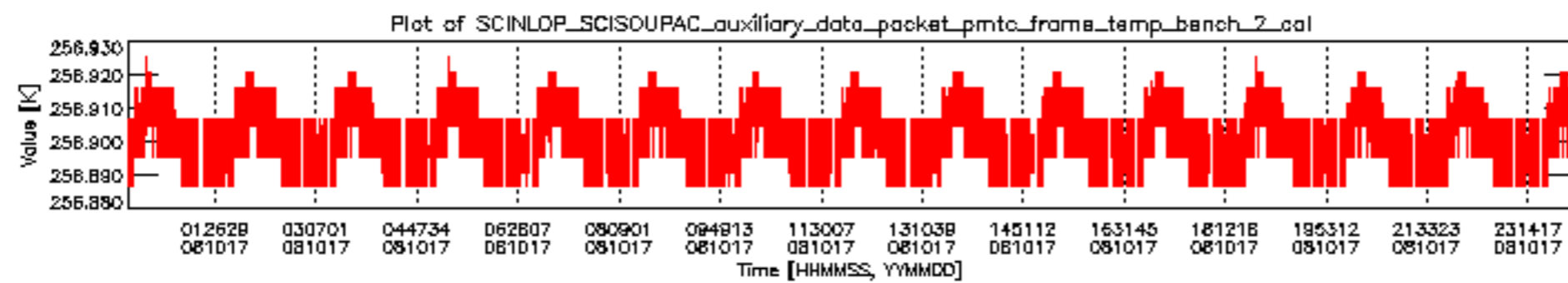


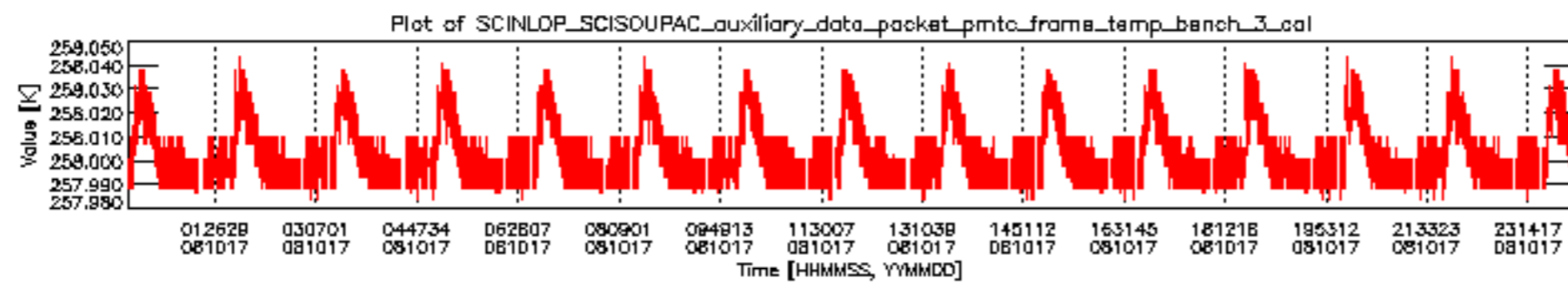
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081017_7.PNG

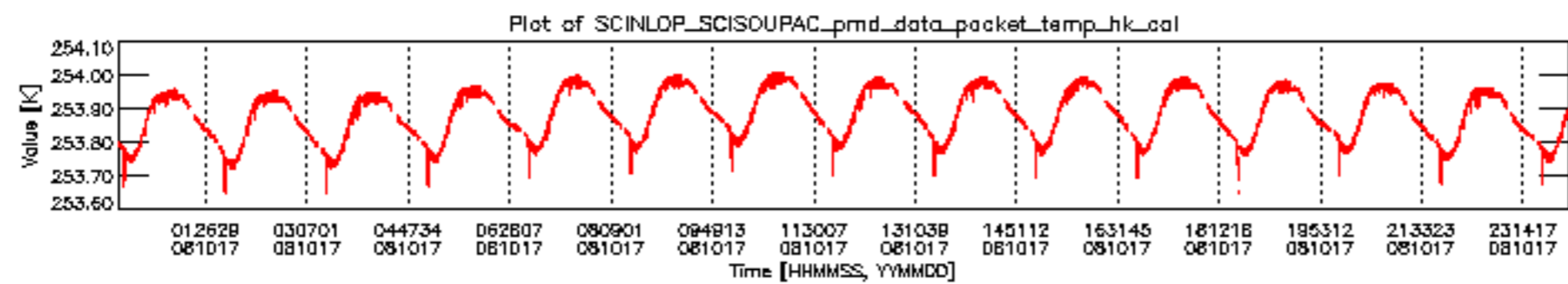


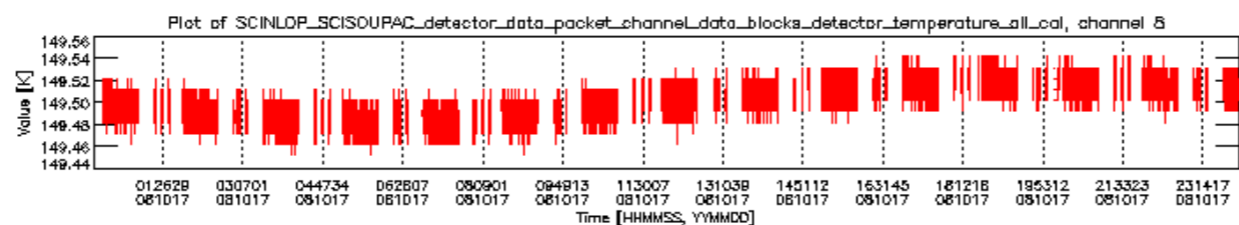
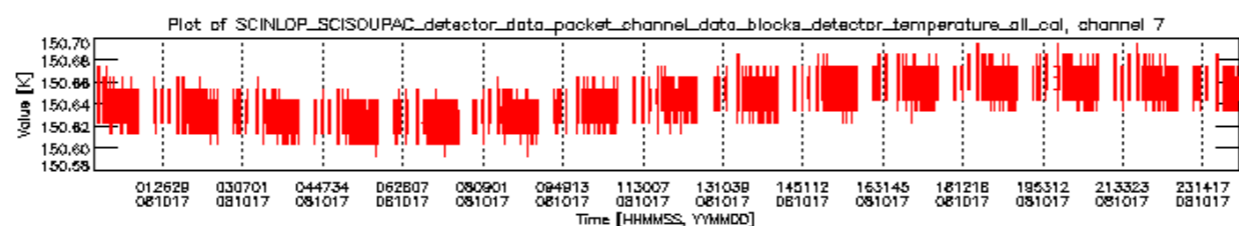
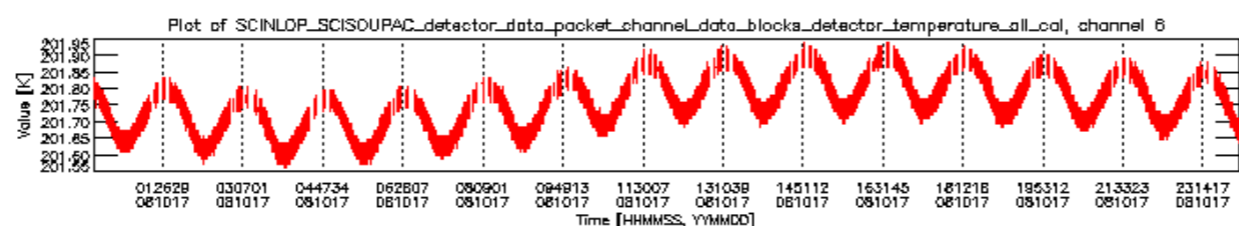
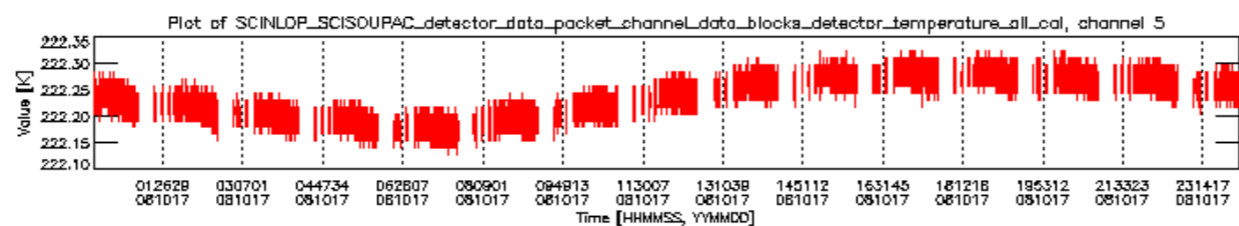
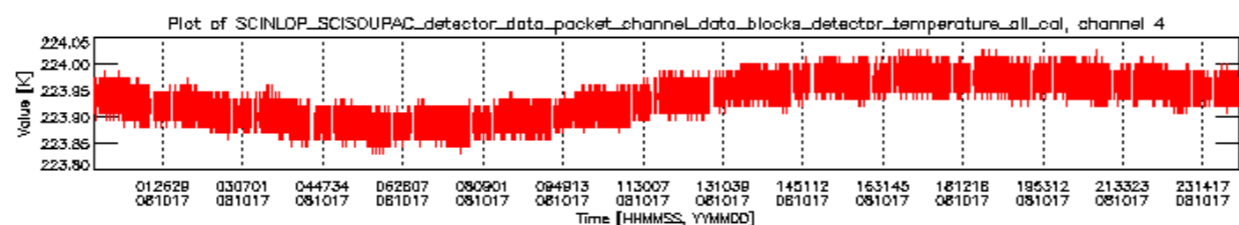
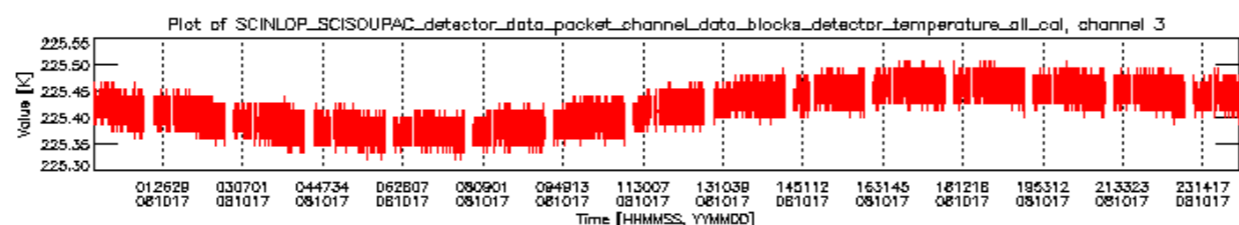
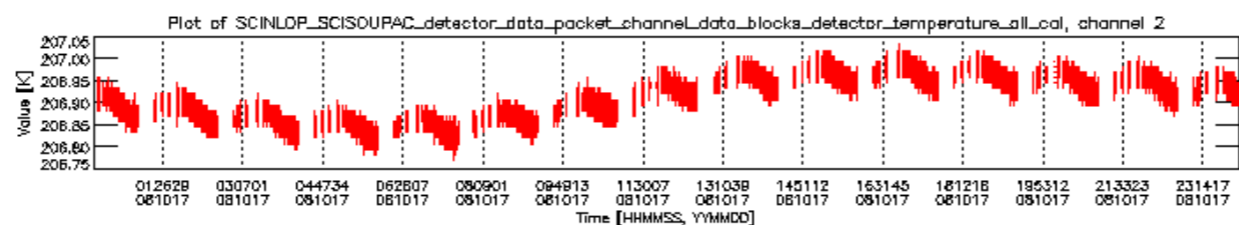
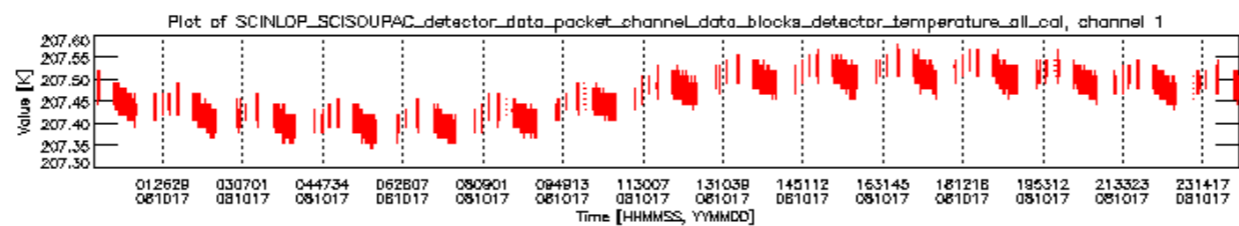
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081017_8.PNG

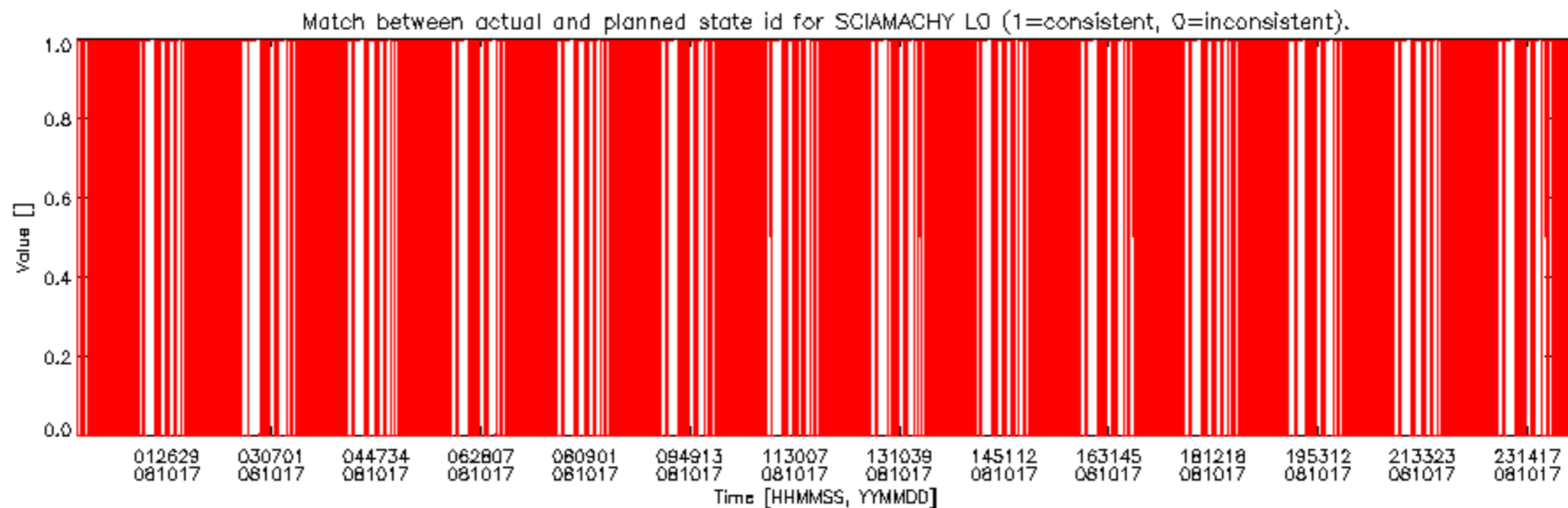
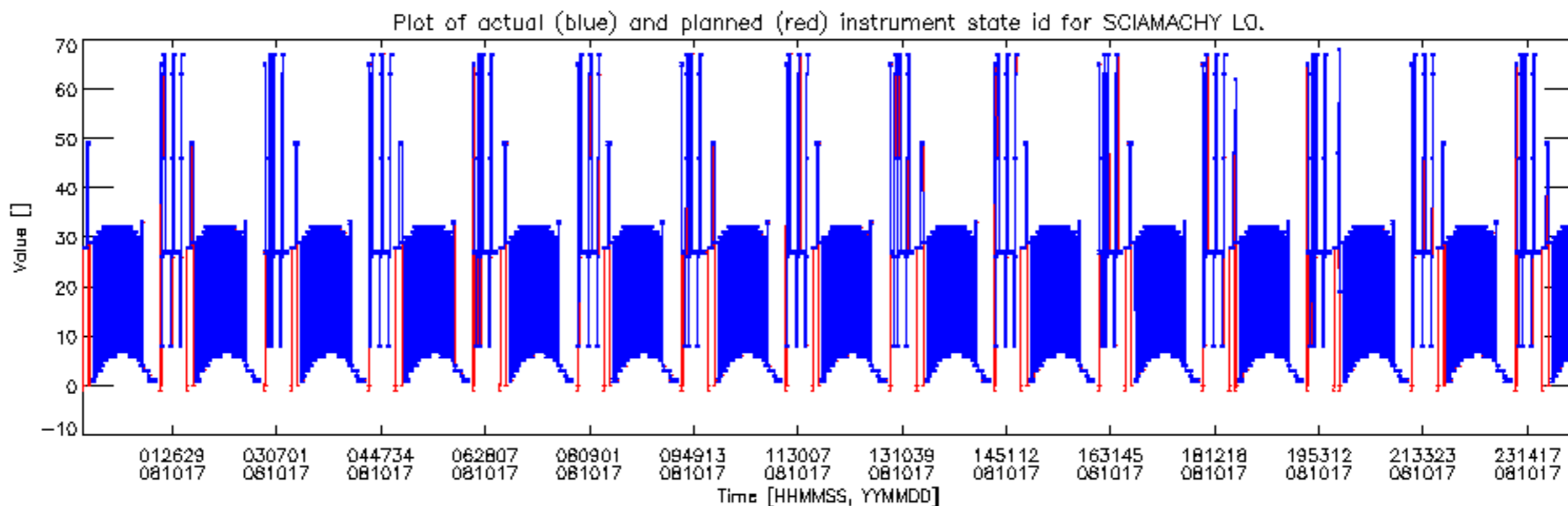




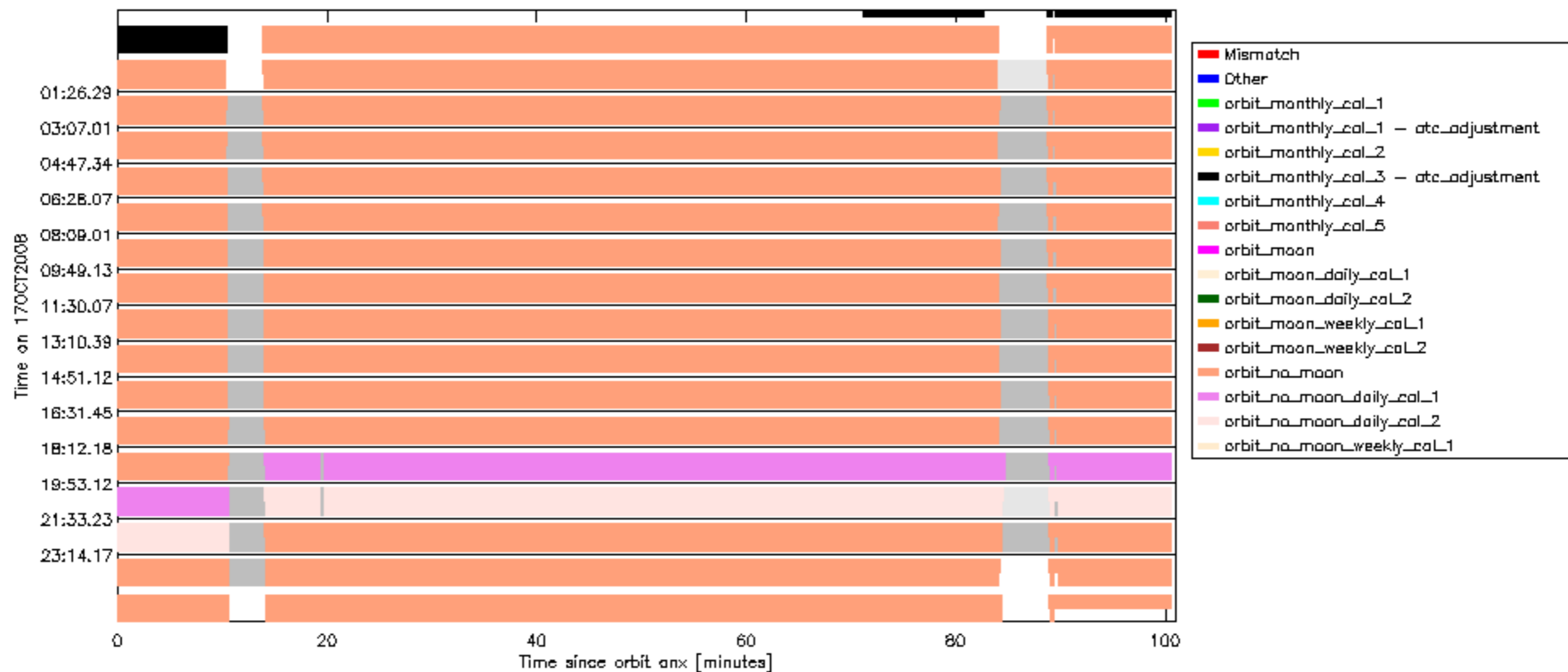


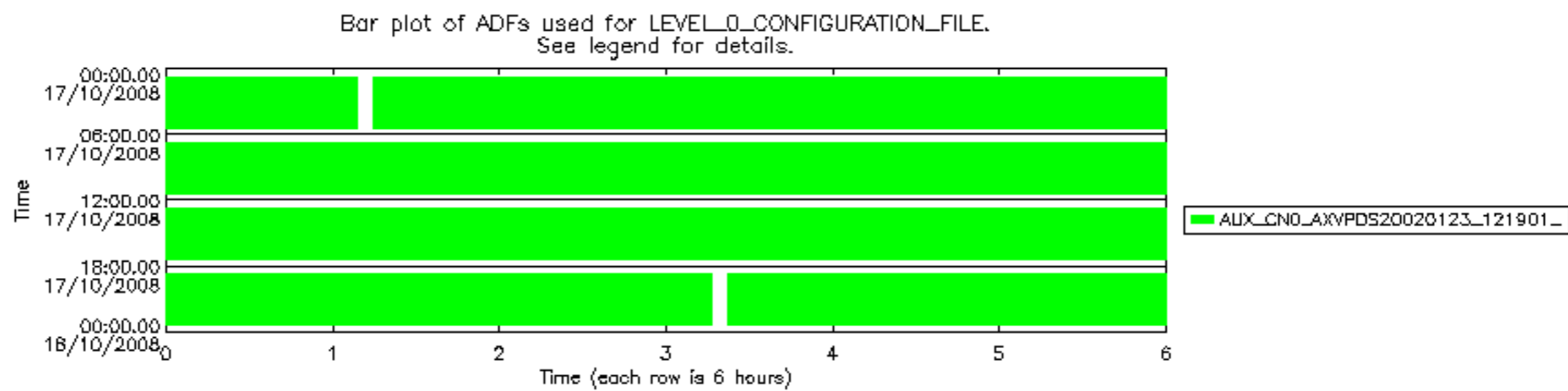






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.
See legend for details.

