

0. SCIAMACHY Daily Report for level 0 products

[0.1 General Info](#)

[0.2 Product Quality Indicators](#)

[0.3 State monitoring](#)

[0.4 ADF monitoring](#)

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	22OCT2007 05:38:16
Data source version	KSPT_L0/4302-N
Processing scope for products	18OCT2007 00:00:00 to 19OCT2007 00:00:00
Start time of first product within scope	17OCT2007 23:05:27
Stop time of last product within scope	19OCT2007 00:15:16
Total number of level 0 products	16
Number of level 0 products with errors	1

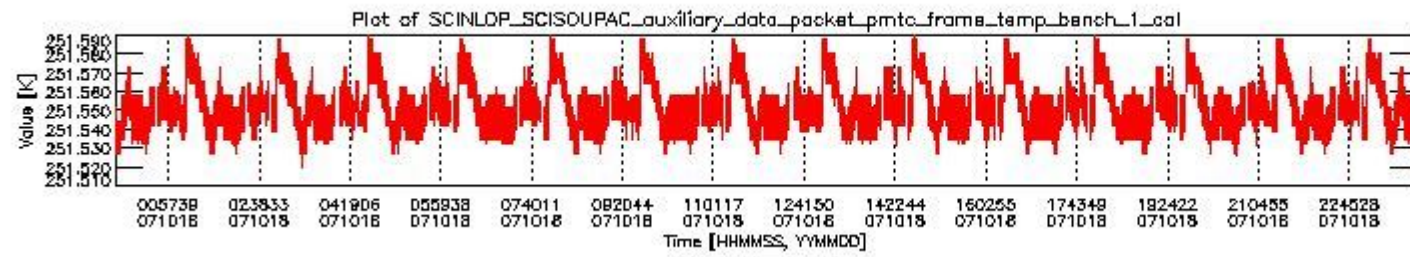
0.1.2 Summary per product

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

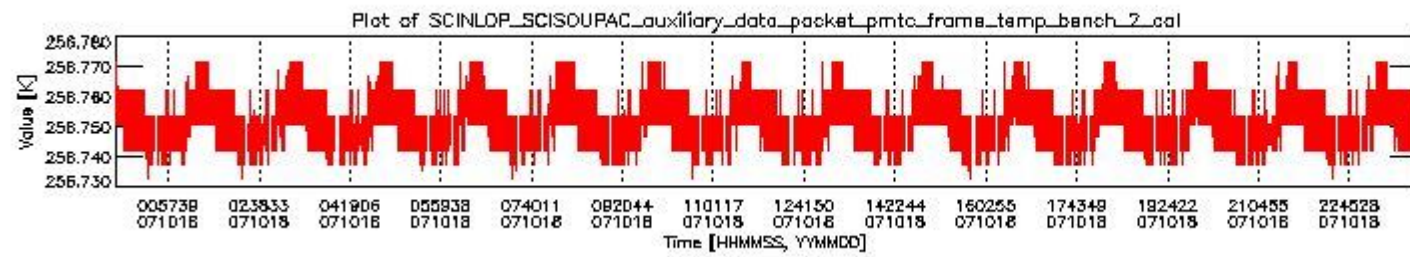
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071017_230527_000060362062_00330_29442_5393.N1	17OCT2007 23:05:27	18OCT2007 00:46:03	0	0	0	0	0
1	SCI_NL__OPNPDE20071018_004603_000056072062_00331_29443_5394.N1	18OCT2007 00:46:03	18OCT2007 02:19:30	0	0	0	0	0
2	SCI_NL__OPNPDE20071018_021930_000046172062_00332_29444_5395.N1	18OCT2007 02:19:30	18OCT2007 03:36:27	0	0	0	0	0
3	SCI_NL__OPNPDE20071018_033627_000061612062_00333_29445_5396.N1	18OCT2007 03:36:27	18OCT2007 05:19:08	0	0	0	0	0
4	SCI_NL__OPNPDE20071018_051908_000060362062_00334_29446_5397.N1	18OCT2007 05:19:08	18OCT2007 06:59:44	0	0	0	0	0
5	SCI_NL__OPNPDK20071018_065849_000040332062_00335_29447_6374.N1	18OCT2007 06:58:49	18OCT2007 08:06:01	0	0	0	0	0
6	SCI_NL__OPNPDK20071018_080506_000062292062_00336_29448_6375.N1	18OCT2007 08:05:06	18OCT2007 09:48:55	0	0	0	0	0
7	SCI_NL__OPNPDK20071018_094746_000059682062_00337_29449_6376.N1	18OCT2007 09:47:46	18OCT2007 11:27:14	0	0	0	0	0
8	SCI_NL__OPNPDK20071018_112618_000061612062_00338_29450_6377.N1	18OCT2007 11:26:18	18OCT2007 13:08:59	0	0	0	0	0
9	SCI_NL__OPNPDK20071018_130655_000059682062_00339_29451_6378.N1	18OCT2007 13:06:55	18OCT2007 14:46:23	0	0	0	0	0
10	SCI_NL__OPNPDK20071018_144527_000058692062_00340_29452_6379.N1	18OCT2007 14:45:27	18OCT2007 16:23:16	1	1	0	0	0
11	SCI_NL__OPNPDK20071018_162058_000060362062_00341_29453_6380.N1	18OCT2007 16:20:58	18OCT2007 18:01:34	0	0	0	0	0
12	SCI_NL__OPNPDK20071018_180037_000059812062_00342_29454_6381.N1	18OCT2007 18:00:37	18OCT2007 19:40:18	0	0	0	0	0
13	SCI_NL__OPNPDE20071018_193826_000041662062_00343_29455_5398.N1	18OCT2007 19:38:26	18OCT2007 20:47:52	0	0	0	0	0
14	SCI_NL__OPNPDE20071018_204535_000065012062_00343_29455_5399.N1	18OCT2007 20:45:35	18OCT2007 22:33:56	0	0	0	0	0
15	SCI_NL__OPNPDE20071018_223356_000060802062_00344_29456_5400.N1	18OCT2007 22:33:56	19OCT2007 00:15:16	0	0	0	0	0

0.2 Product Quality Indicators

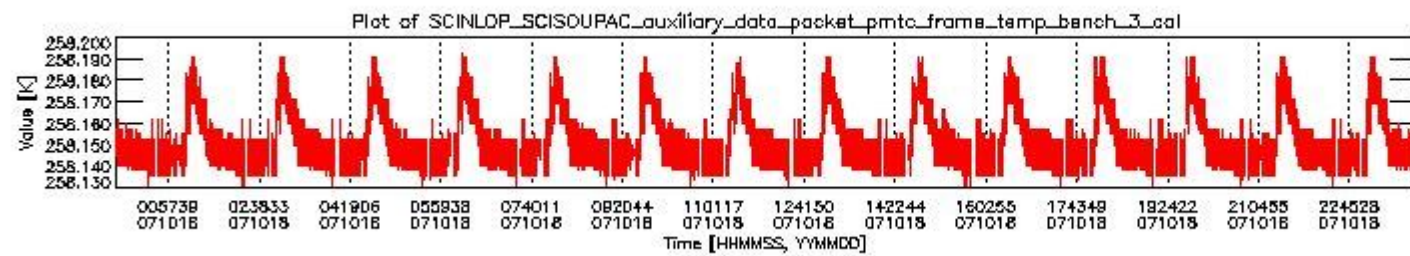
This section shows information about product quality, currently temperatures.



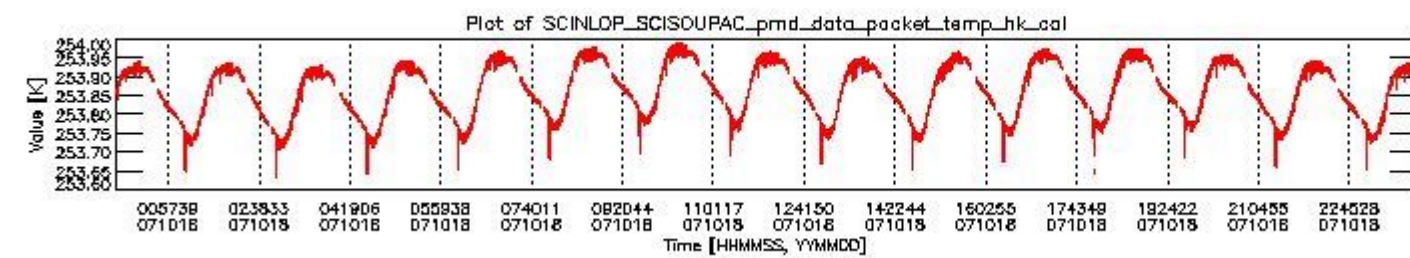
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071018_0.PNG



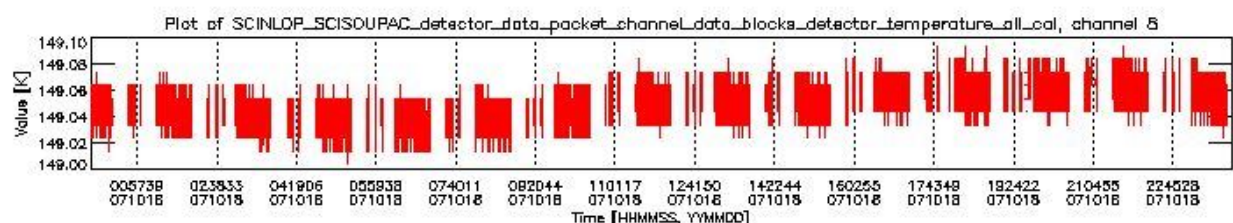
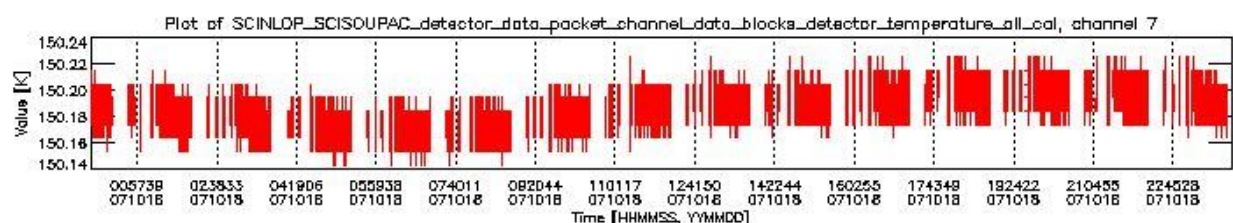
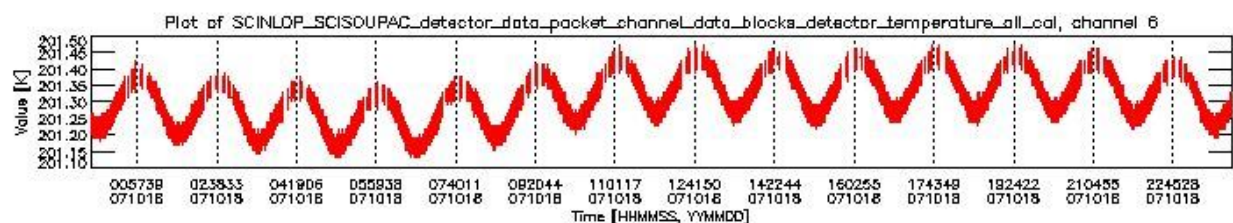
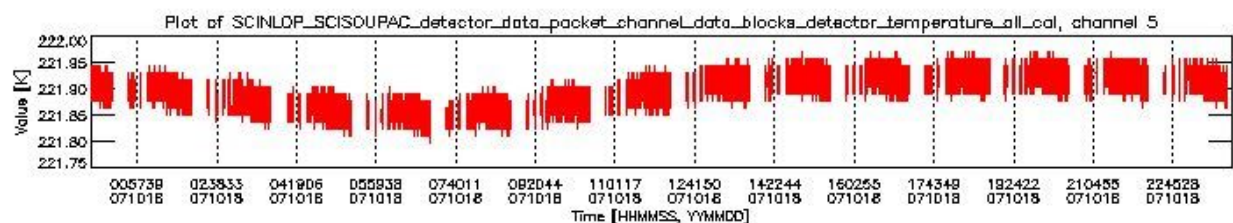
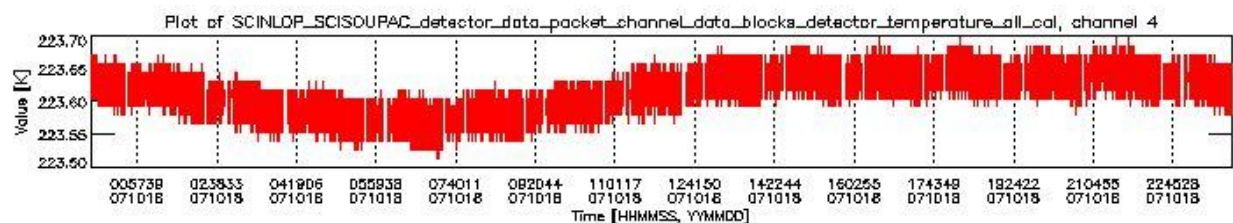
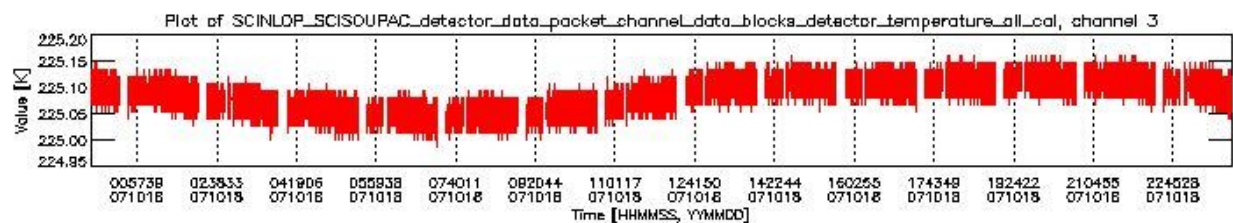
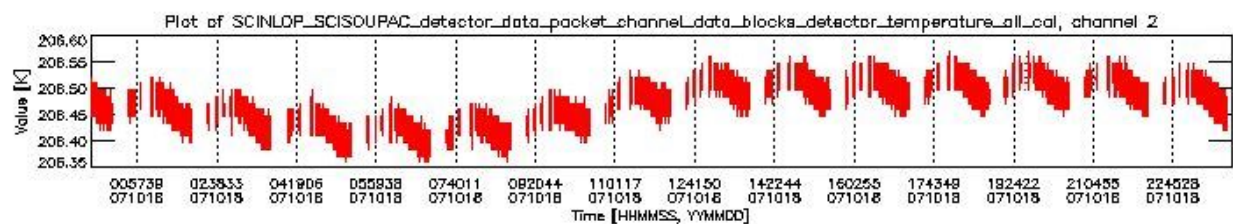
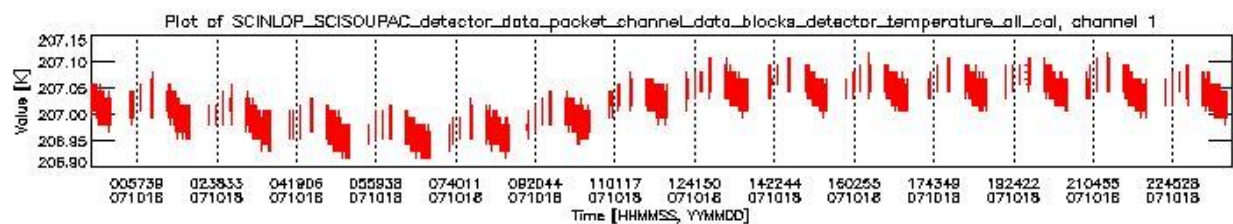
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071018_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4302_N_20071018_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4302_N_20071018_3.PNG

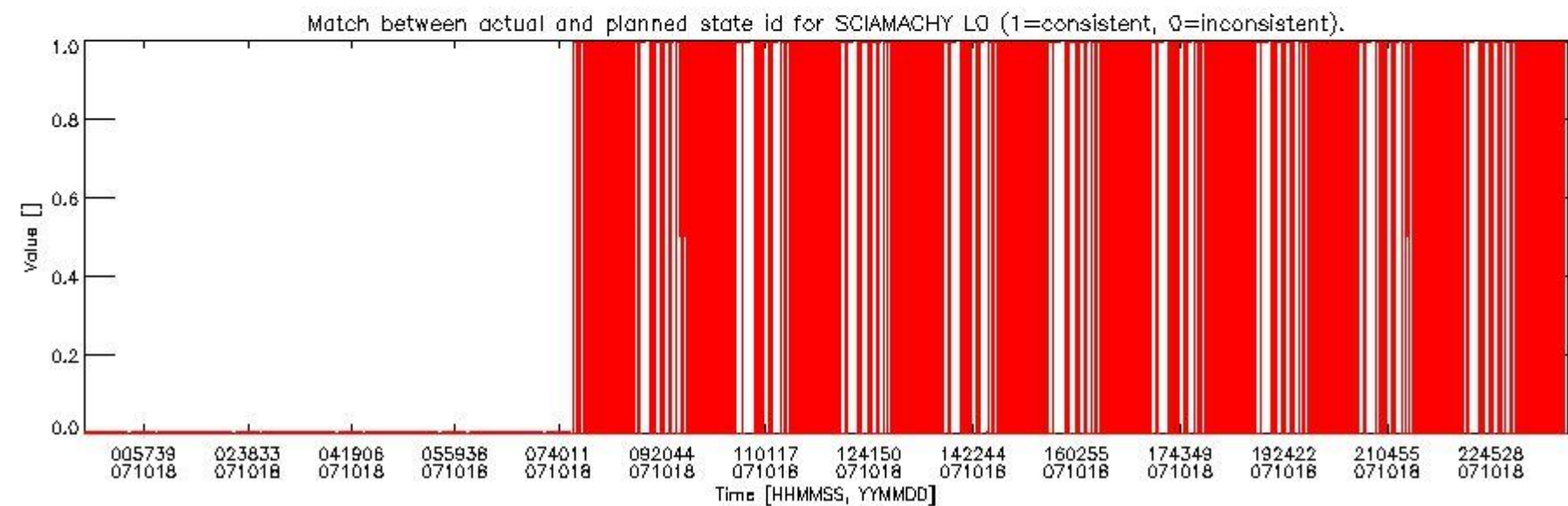
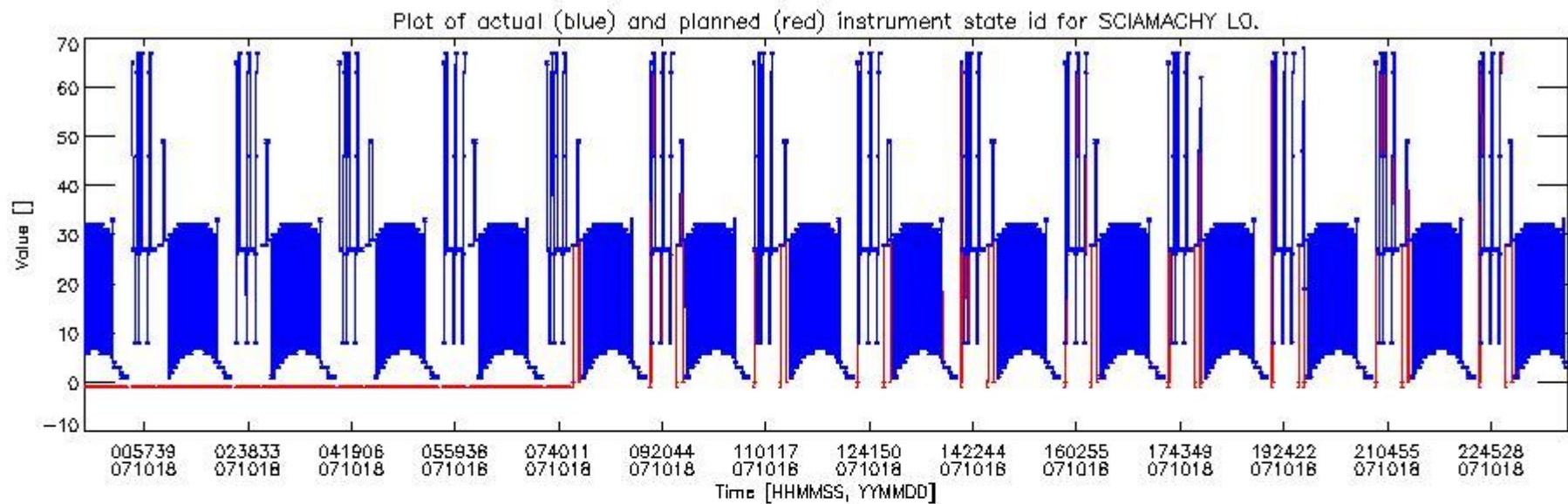


0.3 State monitoring

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: **132706**

#	Actual time	Actual value	Planned time	Planned value
0	18OCT2007 00:00:00.042446	32	18OCT2007 00:00:00.042446	-1
1	18OCT2007 00:00:00.417459	32	18OCT2007 00:00:00.417459	-1
2	18OCT2007 00:00:00.792472	32	18OCT2007 00:00:00.792472	-1
3	18OCT2007 00:00:01.167445	32	18OCT2007 00:00:01.167445	-1
4	18OCT2007 00:00:01.729944	32	18OCT2007 00:00:01.729944	-1
5	18OCT2007 00:00:02.104957	32	18OCT2007 00:00:02.104957	-1
6	18OCT2007 00:00:02.479970	32	18OCT2007 00:00:02.479970	-1
7	18OCT2007 00:00:02.854943	32	18OCT2007 00:00:02.854943	-1
8	18OCT2007 00:00:02.979948	32	18OCT2007 00:00:02.979948	-1
9	18OCT2007 00:00:03.417443	32	18OCT2007 00:00:03.417443	-1
10	18OCT2007 00:00:03.792456	32	18OCT2007 00:00:03.792456	-1
11	18OCT2007 00:00:04.167469	32	18OCT2007 00:00:04.167469	-1
12	18OCT2007 00:00:04.542442	32	18OCT2007 00:00:04.542442	-1
13	18OCT2007 00:00:05.104941	32	18OCT2007 00:00:05.104941	-1
14	18OCT2007 00:00:05.479954	32	18OCT2007 00:00:05.479954	-1
15	18OCT2007 00:00:05.854967	32	18OCT2007 00:00:05.854967	-1
16	18OCT2007 00:00:06.229940	32	18OCT2007 00:00:06.229940	-1
17	18OCT2007 00:00:06.792440	32	18OCT2007 00:00:06.792440	-1
18	18OCT2007 00:00:07.167453	32	18OCT2007 00:00:07.167453	-1
19	18OCT2007 00:00:07.542466	32	18OCT2007 00:00:07.542466	-1
...

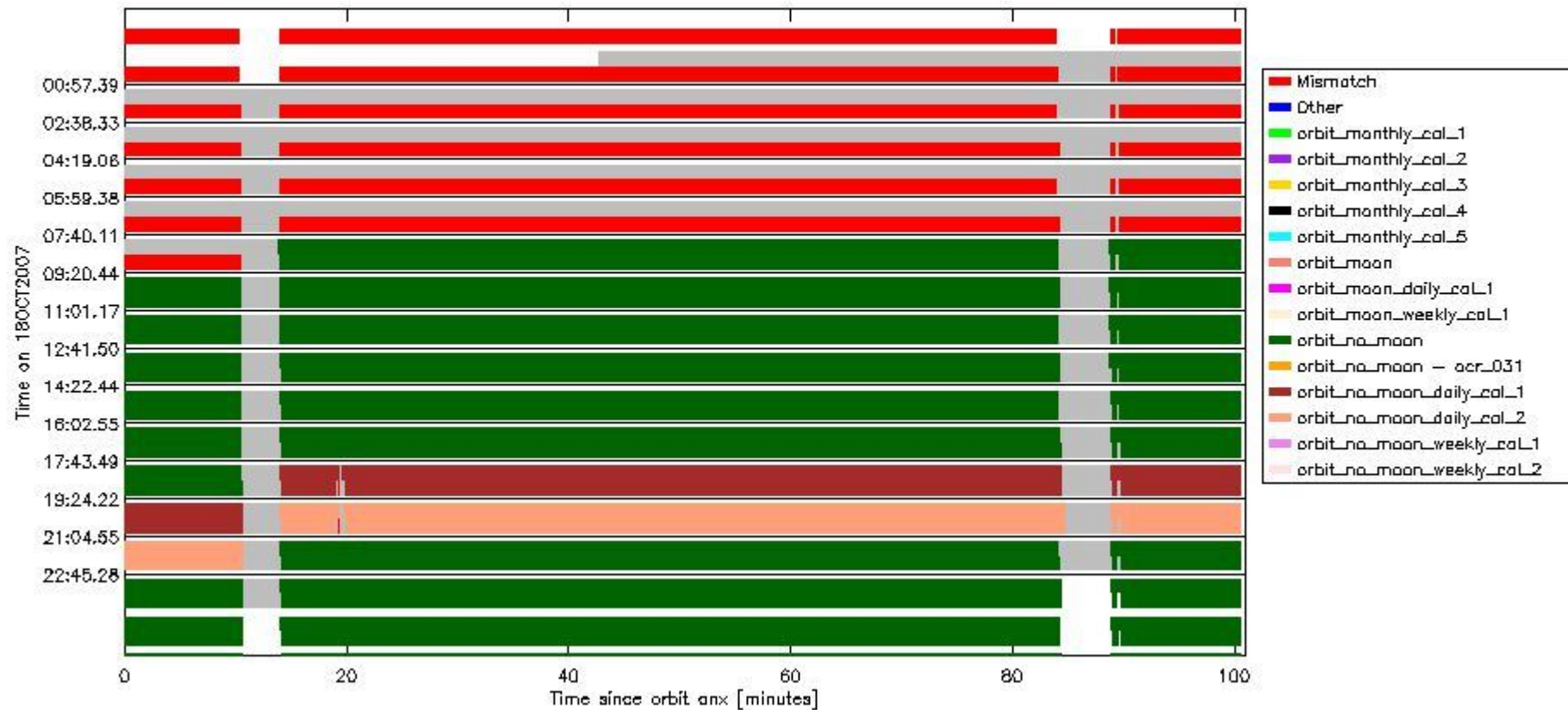


sciamachy_daily_report_level0_KSPT_L0_4302_N_20071018_5.PNG

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 18OCT2007.
 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_20071018_6.PNG

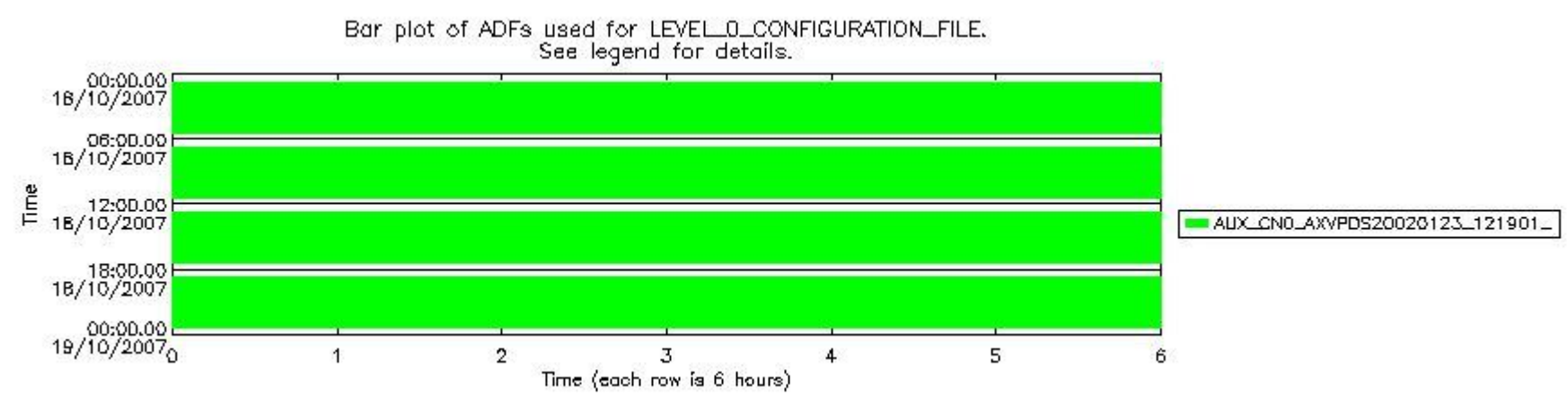
0.4 ADF monitoring

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

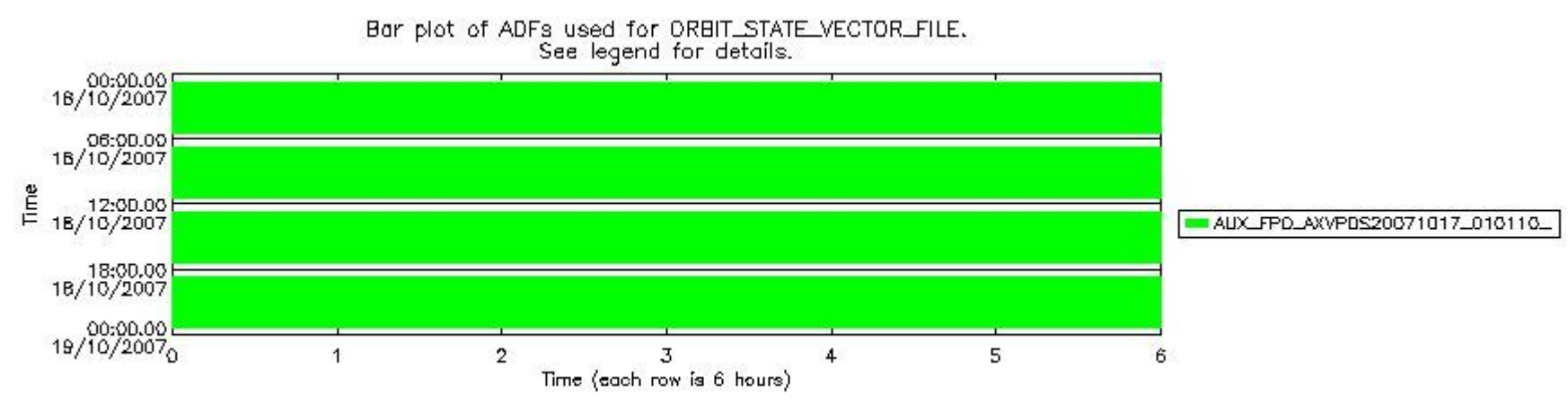
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

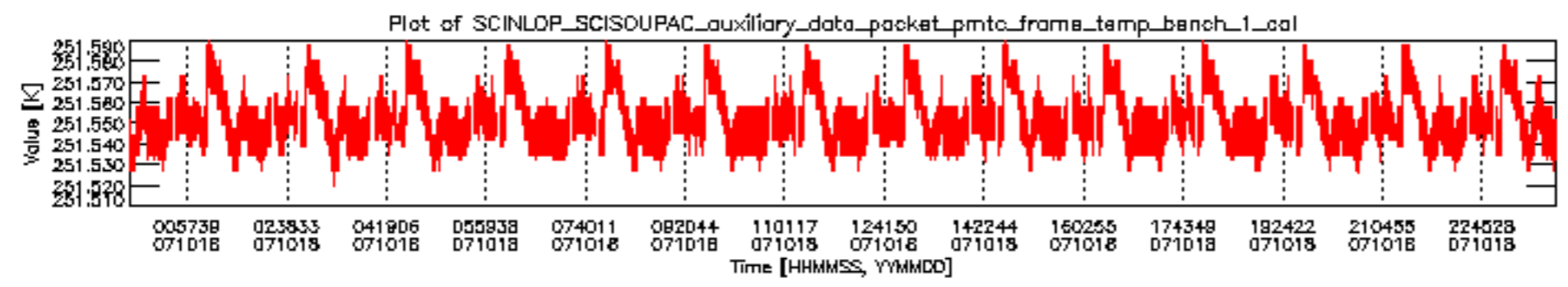
Number	ADF
	CNO (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CNO_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20071017_010110_20071016_184658_20071026_201311

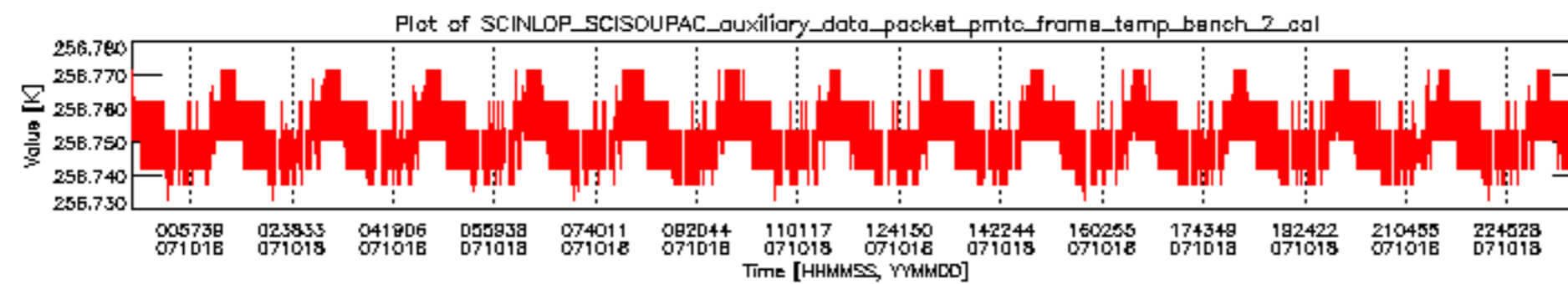


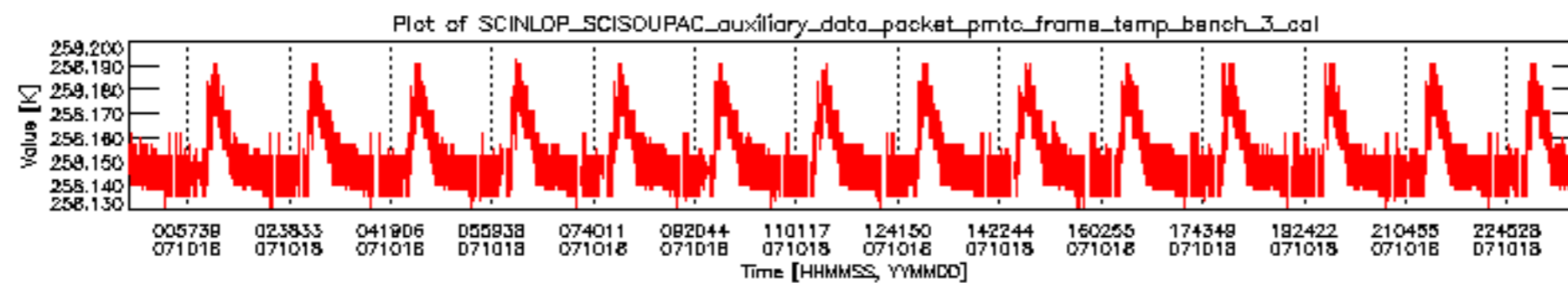
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071018_7.PNG

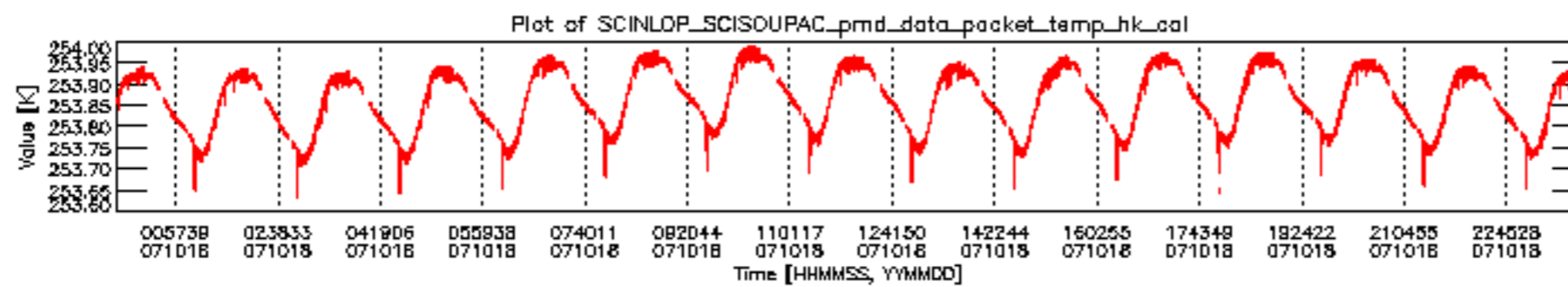


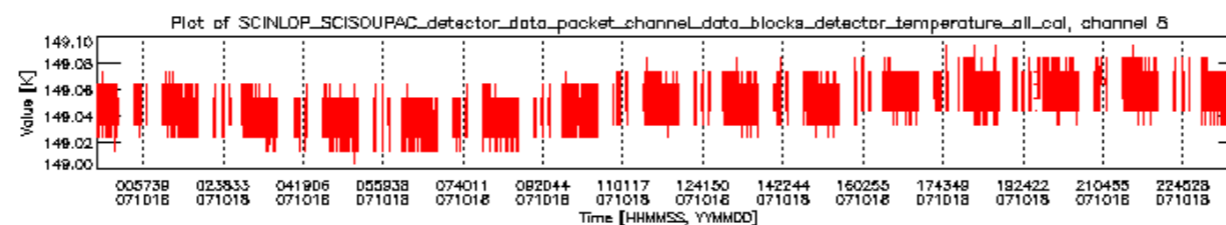
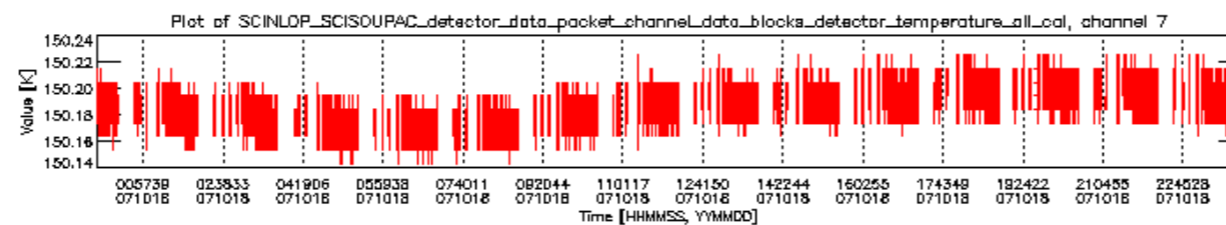
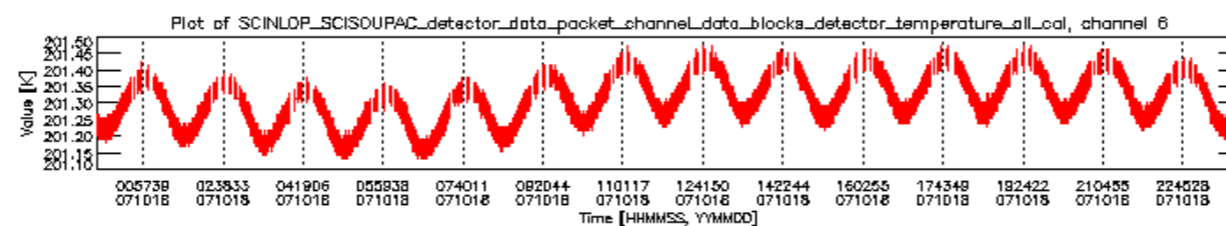
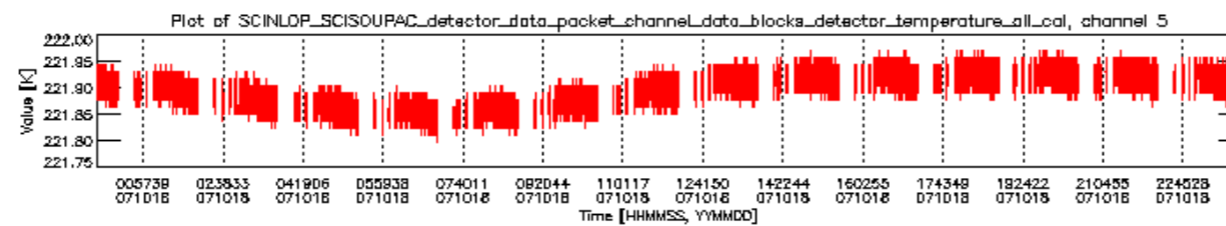
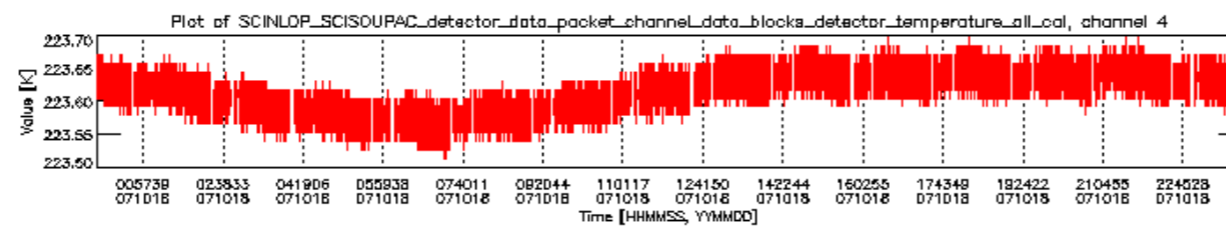
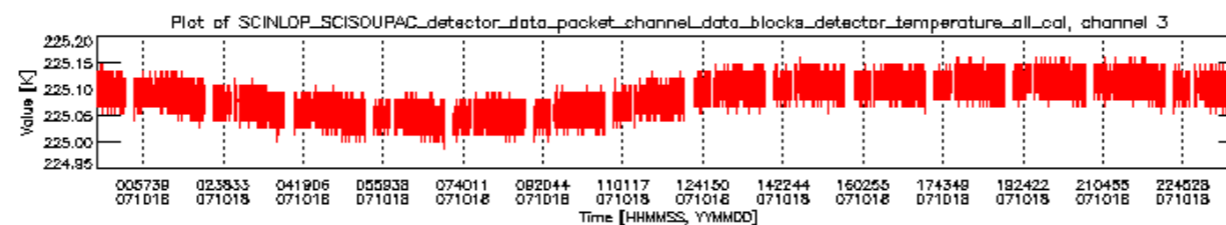
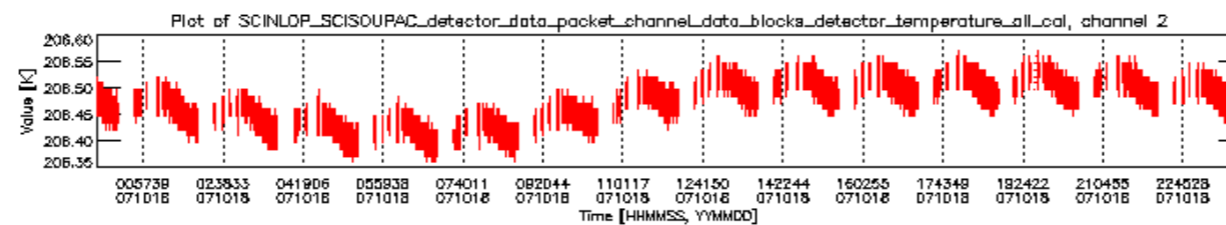
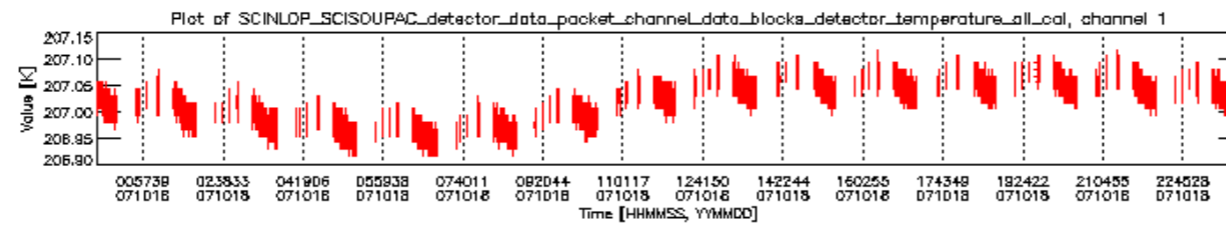
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071018_8.PNG

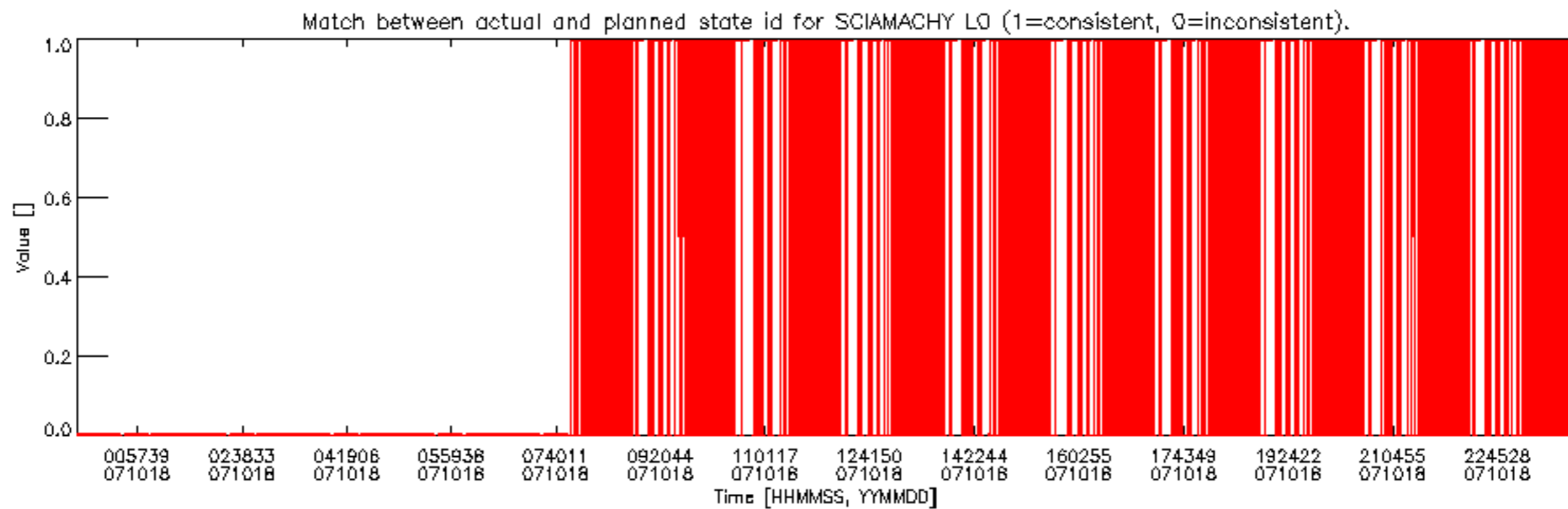
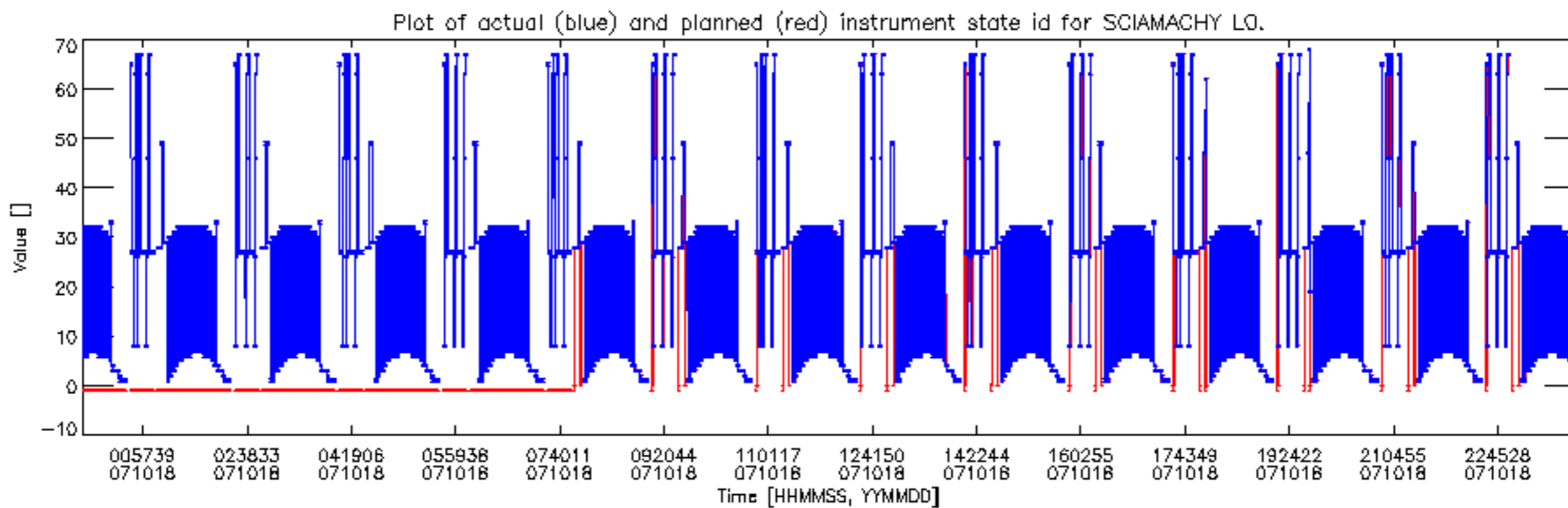












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