

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	24OCT2007 07:17:50
Data source version	KSPT_L0/4302-N
Processing scope for products	20OCT2007 00:00:00 to 21OCT2007 00:00:00
Start time of first product within scope	19OCT2007 23:43:02
Stop time of last product within scope	21OCT2007 00:46:08
Total number of level 0 products	16
Number of level 0 products with errors	0

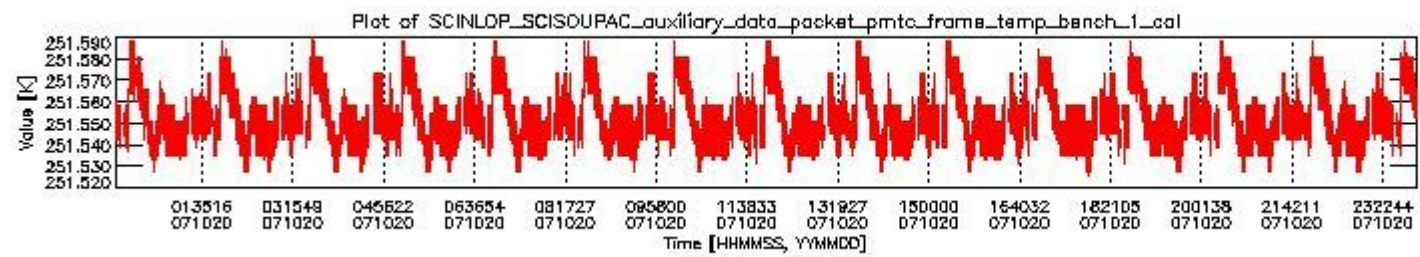
0.1.2 Summary per product

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

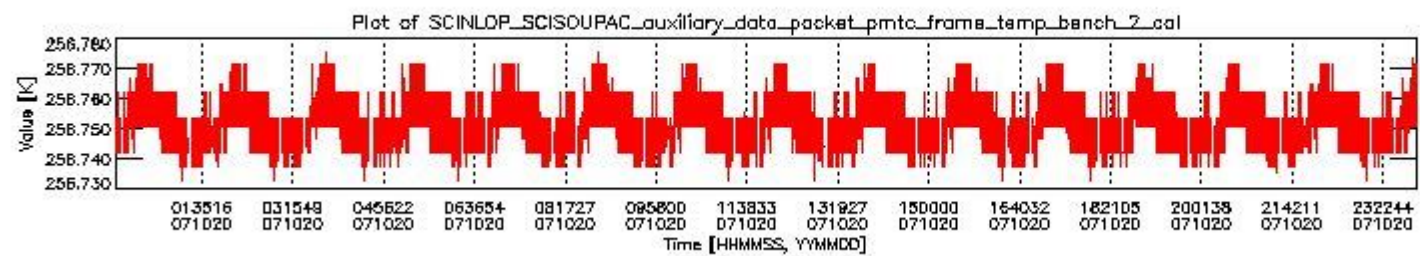
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071019_234302_000056762062_00359_29471_5407.N1	19OCT2007 23:43:02	20OCT2007 01:17:38	0	0	0	0	0
1	SCI_NL__OPNPDE20071020_012339_000042572062_00360_29472_5408.N1	20OCT2007 01:23:39	20OCT2007 02:34:35	0	0	0	0	0
2	SCI_NL__OPNPDE20071020_023327_000061612062_00361_29473_5409.N1	20OCT2007 02:33:27	20OCT2007 04:16:07	0	0	0	0	0
3	SCI_NL__OPNPDE20071020_041459_000060492062_00362_29474_5410.N1	20OCT2007 04:14:59	20OCT2007 05:55:48	0	0	0	0	0
4	SCI_NL__OPNPDK20071020_055548_000041012062_00363_29475_6393.N1	20OCT2007 05:55:48	20OCT2007 07:04:10	0	0	0	0	0
5	SCI_NL__OPNPDK20071020_070205_000062852062_00364_29476_6394.N1	20OCT2007 07:02:05	20OCT2007 08:46:50	0	0	0	0	0
6	SCI_NL__OPNPDK20071020_084554_000060242062_00365_29477_6395.N1	20OCT2007 08:45:54	20OCT2007 10:26:18	0	0	0	0	0
7	SCI_NL__OPNPDK20071020_102414_000059252062_00366_29478_6396.N1	20OCT2007 10:24:14	20OCT2007 12:02:58	0	0	0	0	0
8	SCI_NL__OPNPDK20071020_120054_000061482062_00367_29479_6397.N1	20OCT2007 12:00:54	20OCT2007 13:43:22	0	0	0	0	0
9	SCI_NL__OPNPDK20071020_134226_000059252062_00368_29480_6398.N1	20OCT2007 13:42:26	20OCT2007 15:21:11	0	0	0	0	0
10	SCI_NL__OPNPDK20071020_151757_000060362062_00369_29481_6399.N1	20OCT2007 15:17:57	20OCT2007 16:58:34	0	0	0	0	0
11	SCI_NL__OPNPDK20071020_165834_000058682062_00370_29482_6400.N1	20OCT2007 16:58:34	20OCT2007 18:36:21	0	0	0	0	0
12	SCI_NL__OPNPDK20071020_183525_000057782062_00371_29483_6401.N1	20OCT2007 18:35:25	20OCT2007 20:11:43	0	0	0	0	0
13	SCI_NL__OPNPDE20071020_201602_000041532062_00372_29484_5411.N1	20OCT2007 20:16:02	20OCT2007 21:25:15	0	0	0	0	0
14	SCI_NL__OPNPDE20071020_213055_000056892062_00372_29484_5412.N1	20OCT2007 21:30:55	20OCT2007 23:05:44	0	0	0	0	0
15	SCI_NL__OPNPDE20071020_231132_000056762062_00373_29485_5413.N1	20OCT2007 23:11:32	21OCT2007 00:46:08	0	0	0	0	0

0.2 Product Quality Indicators

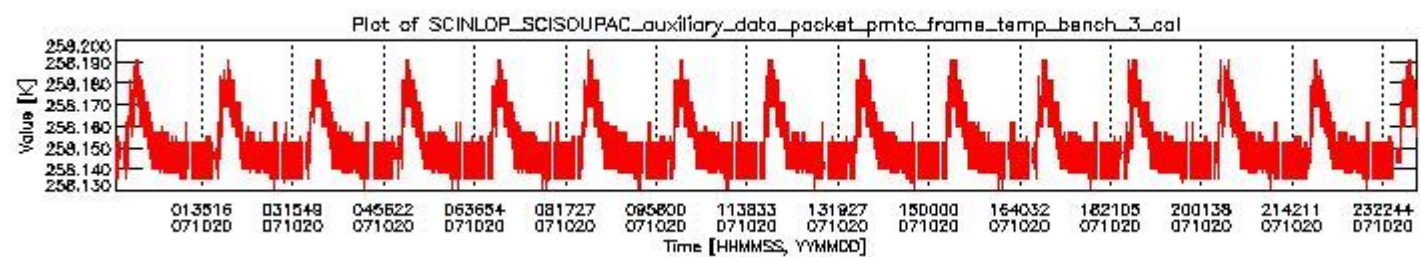
This section shows information about product quality, currently temperatures.



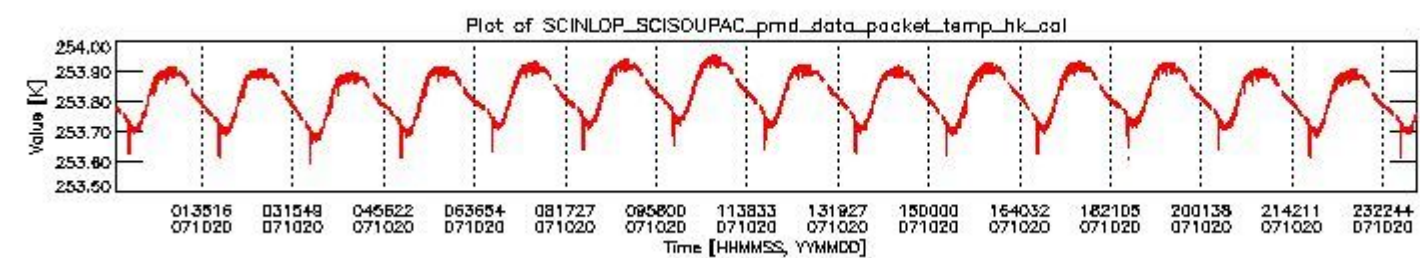
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071020_0.PNG



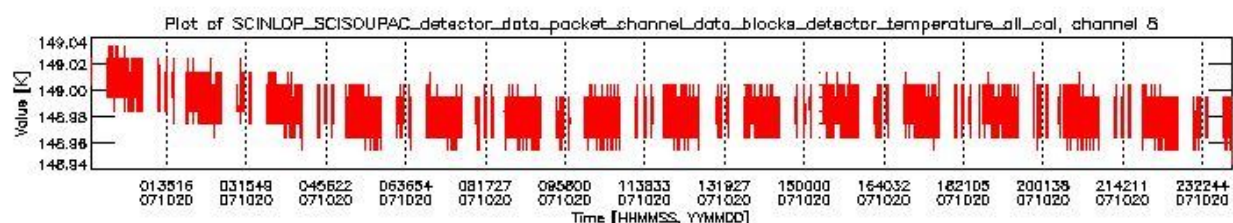
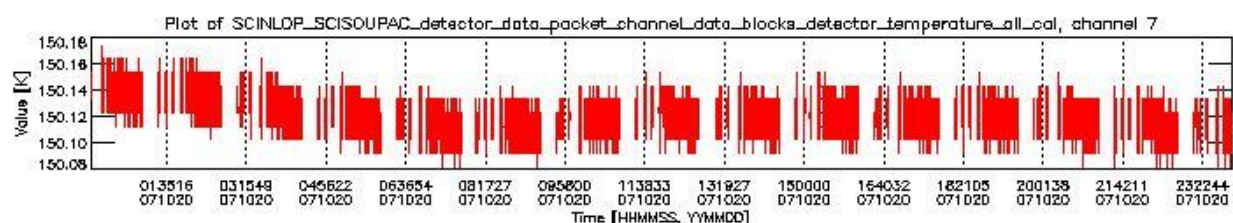
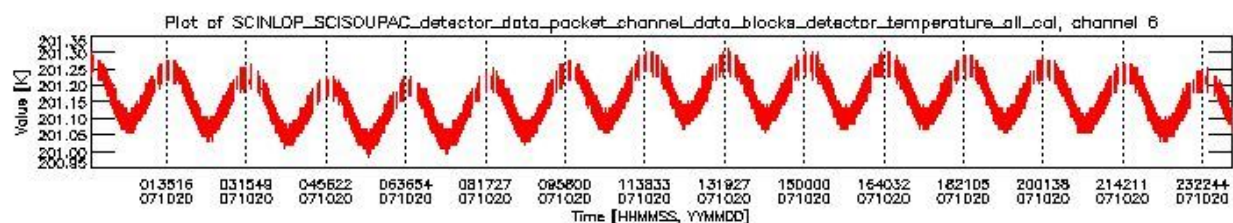
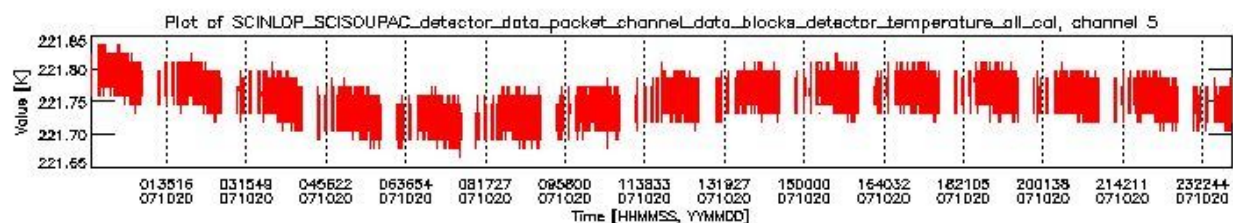
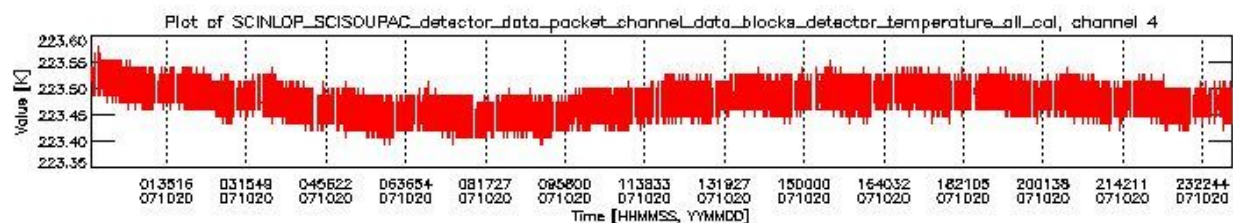
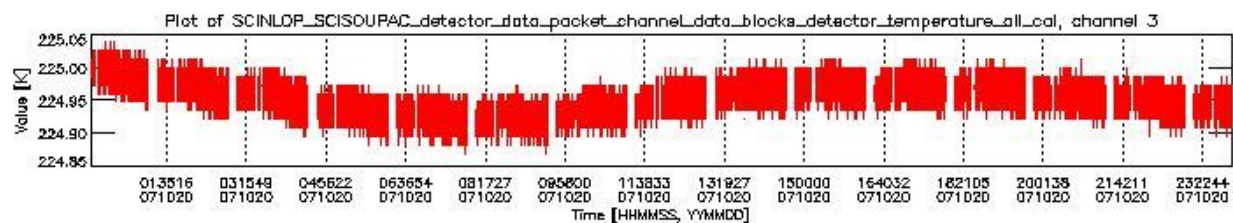
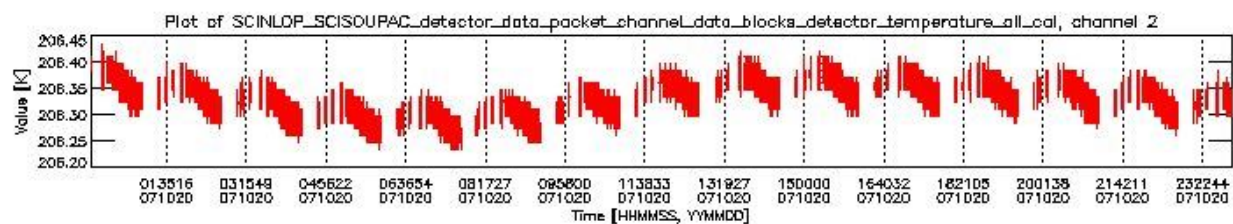
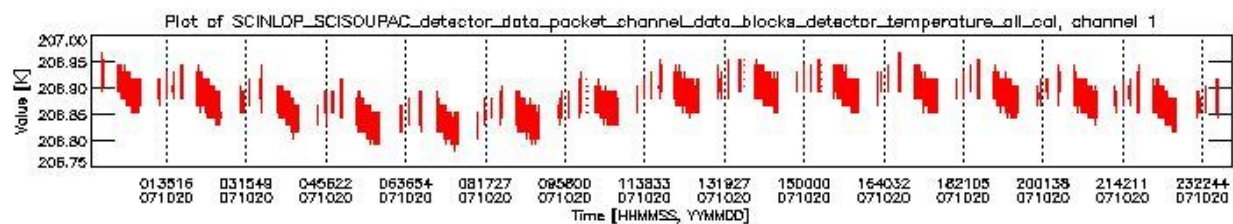
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071020_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4302_N_20071020_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4302_N_20071020_3.PNG

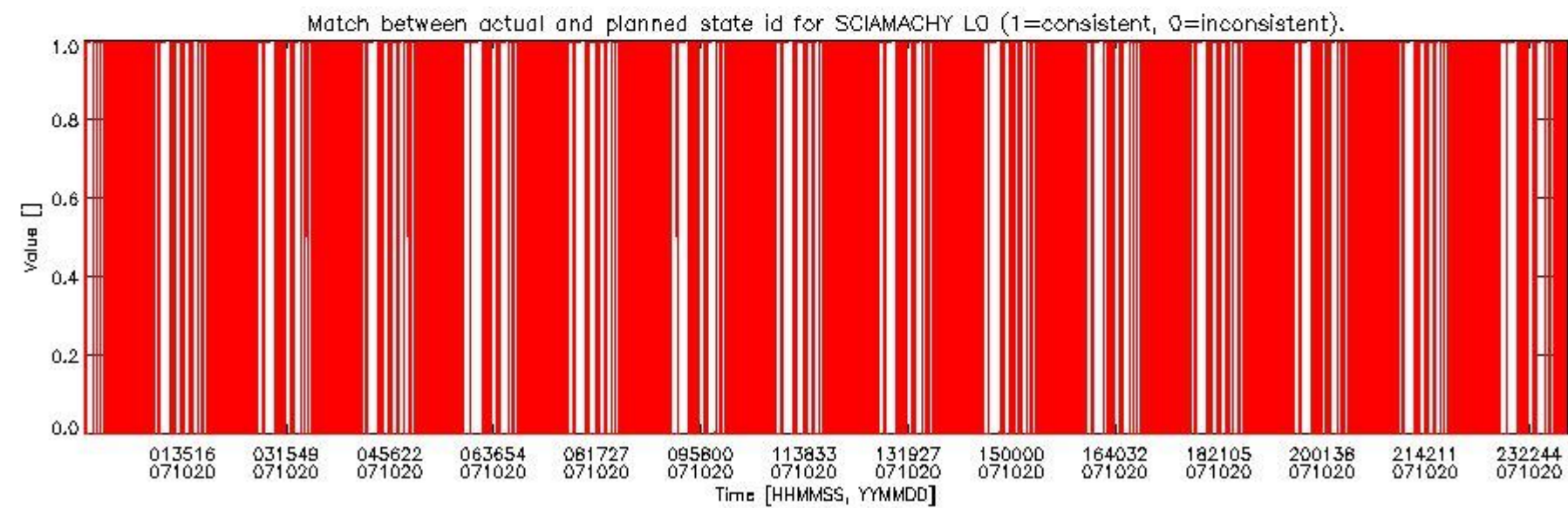
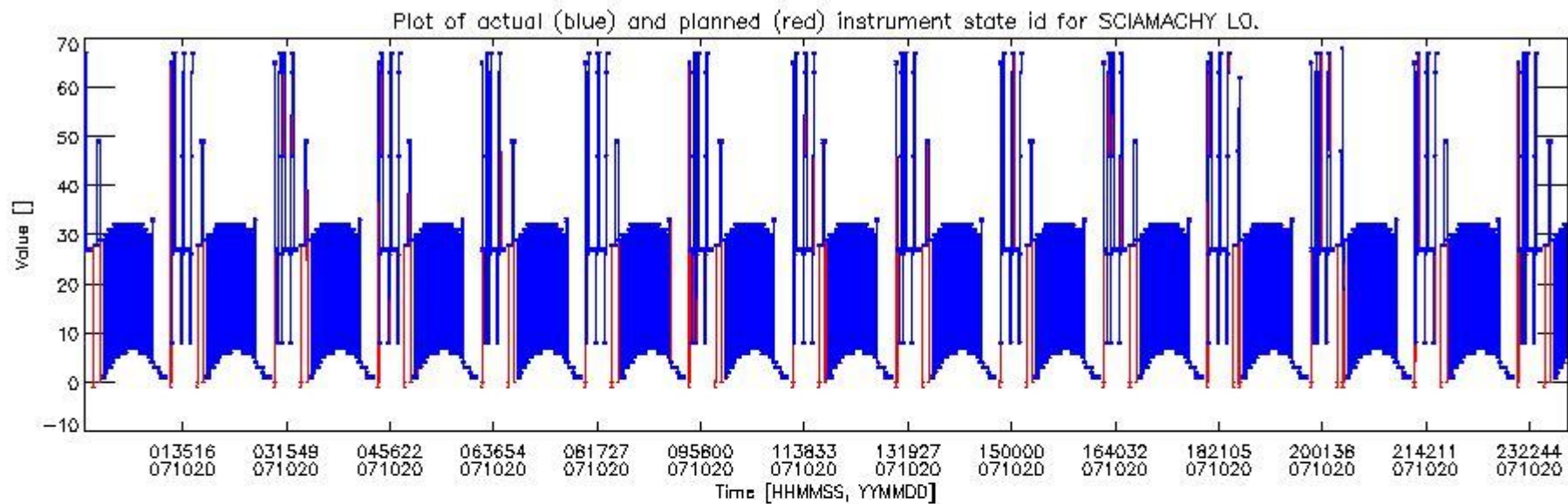


0.3 State monitoring

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: **31718**

#	Actual time	Actual value	Planned time	Planned value
0	20OCT2007 00:00:06.844984	67	20OCT2007 00:00:06.844984	63
1	20OCT2007 00:00:07.094952	67	20OCT2007 00:00:07.094952	63
2	20OCT2007 00:00:07.219957	67	20OCT2007 00:00:07.219957	63
3	20OCT2007 00:00:07.344961	67	20OCT2007 00:00:07.344961	63
4	20OCT2007 00:00:07.469966	67	20OCT2007 00:00:07.469966	63
5	20OCT2007 00:00:07.594970	67	20OCT2007 00:00:07.594970	63
6	20OCT2007 00:00:07.719974	67	20OCT2007 00:00:07.719974	63
7	20OCT2007 00:00:07.844979	67	20OCT2007 00:00:07.844979	63
8	20OCT2007 00:00:07.969983	67	20OCT2007 00:00:07.969983	63
9	20OCT2007 00:00:08.094987	67	20OCT2007 00:00:08.094987	63
10	20OCT2007 00:00:08.219992	67	20OCT2007 00:00:08.219992	63
11	20OCT2007 00:00:08.344956	67	20OCT2007 00:00:08.344956	63
12	20OCT2007 00:00:08.469960	67	20OCT2007 00:00:08.469960	63
13	20OCT2007 00:00:08.594964	67	20OCT2007 00:00:08.594964	63
14	20OCT2007 00:00:08.719969	67	20OCT2007 00:00:08.719969	63
15	20OCT2007 00:00:08.844973	67	20OCT2007 00:00:08.844973	63
16	20OCT2007 00:00:08.969977	67	20OCT2007 00:00:08.969977	63
17	20OCT2007 00:00:09.094982	67	20OCT2007 00:00:09.094982	63
18	20OCT2007 00:00:09.219986	67	20OCT2007 00:00:09.219986	63
19	20OCT2007 00:00:09.344991	67	20OCT2007 00:00:09.344991	63

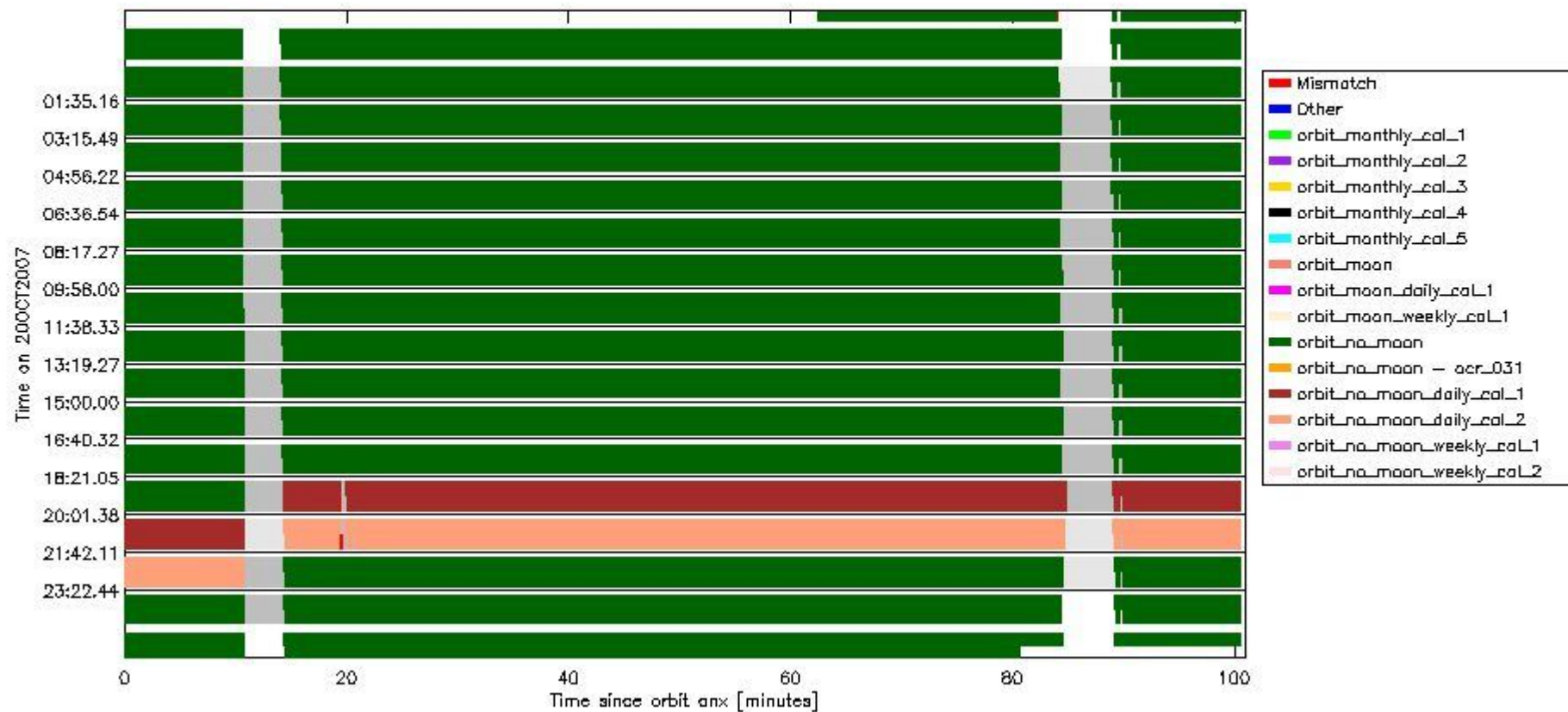


sciamachy_daily_report_level0_KSPT_L0_4302_N_20071020_5.PNG

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 20OCT2007.
 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_20071020_6.PNG

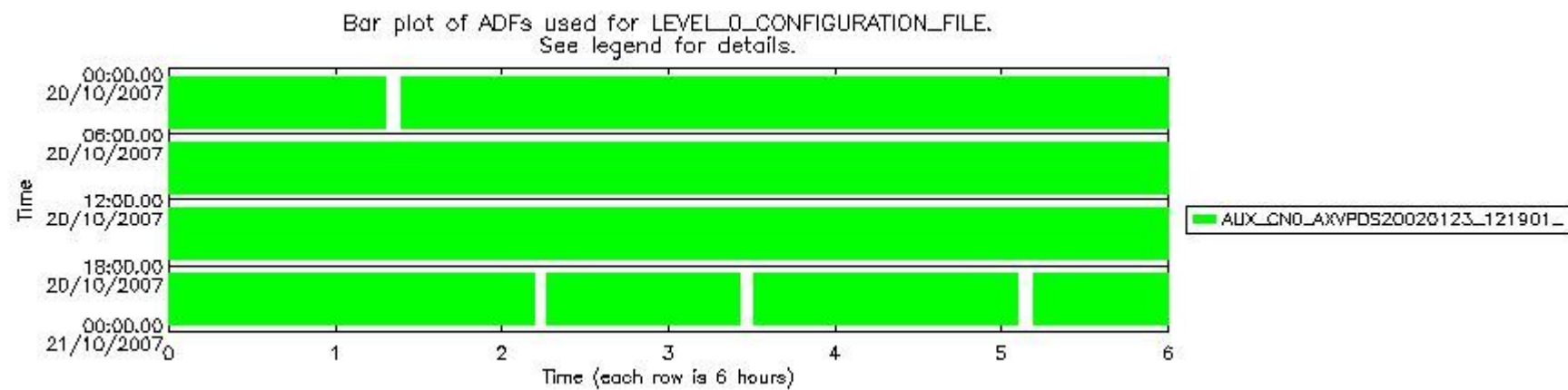
0.4 ADF monitoring

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

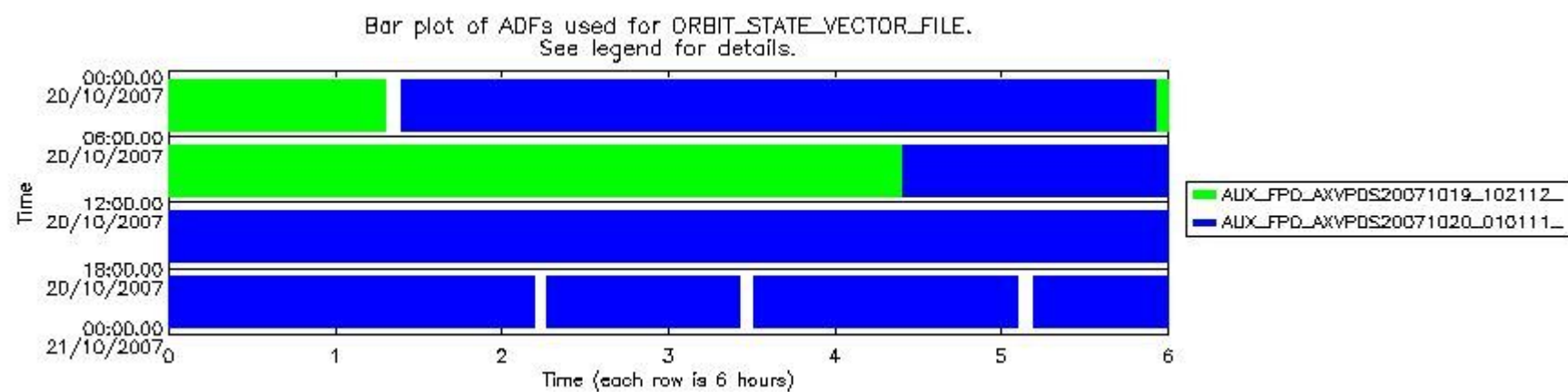
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

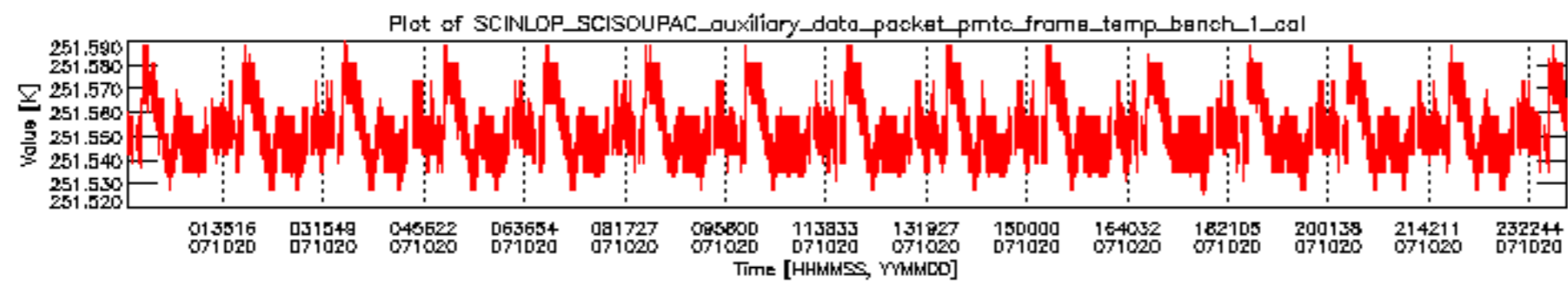
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20071019_102112_20071018_192420_20071028_205033
2	AUX_FPO_AXVPDS20071020_010111_20071019_185243_20071029_201856

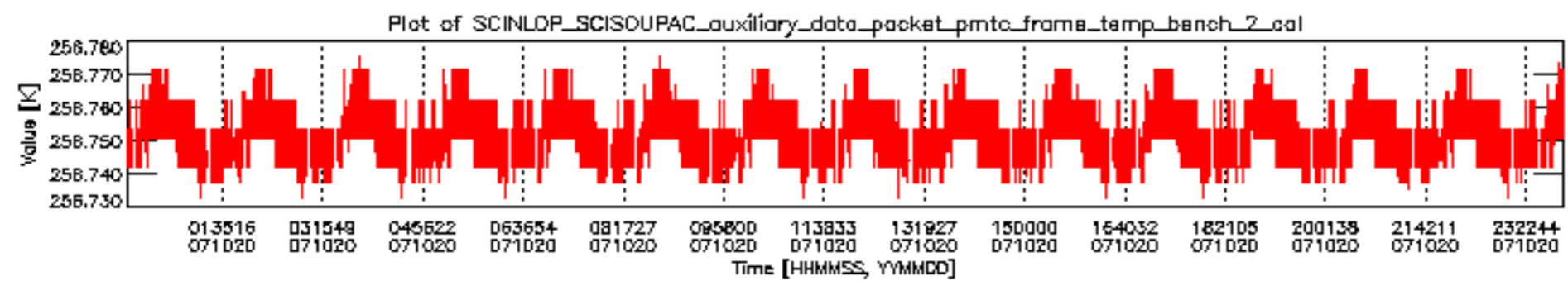


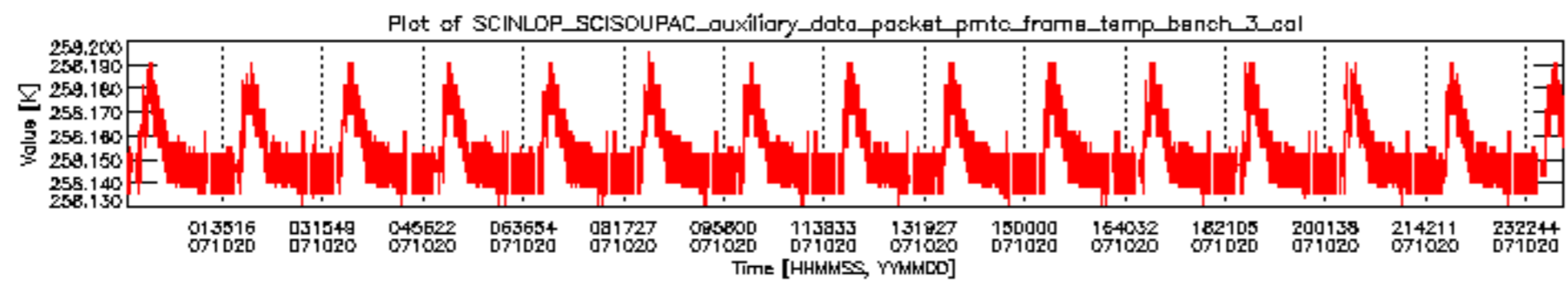
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071020_7.PNG

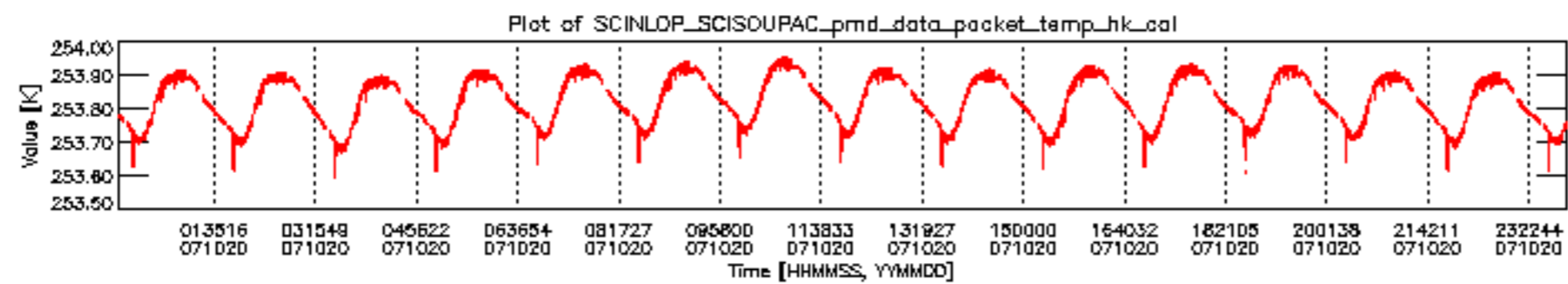


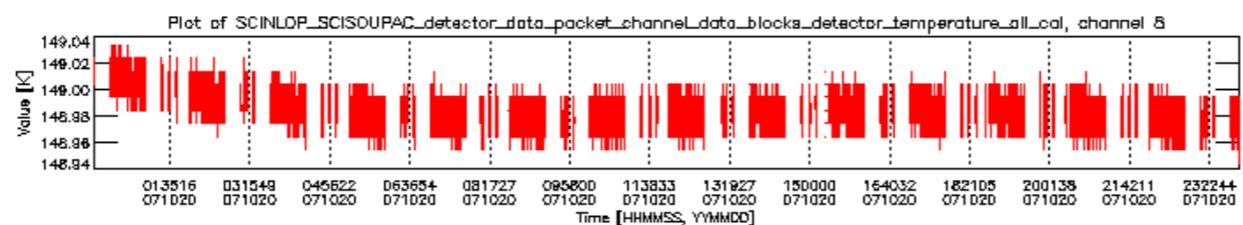
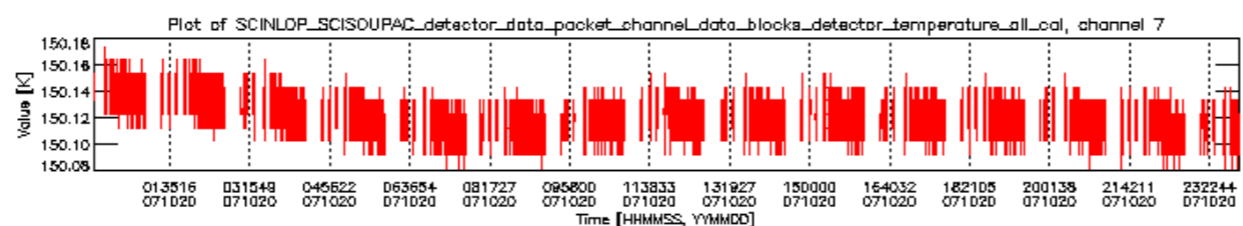
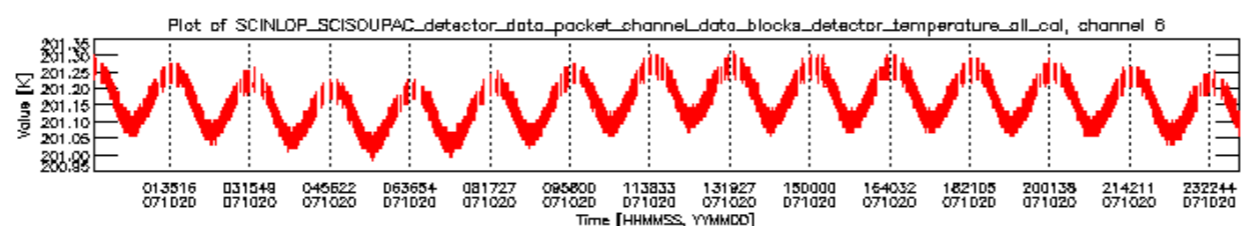
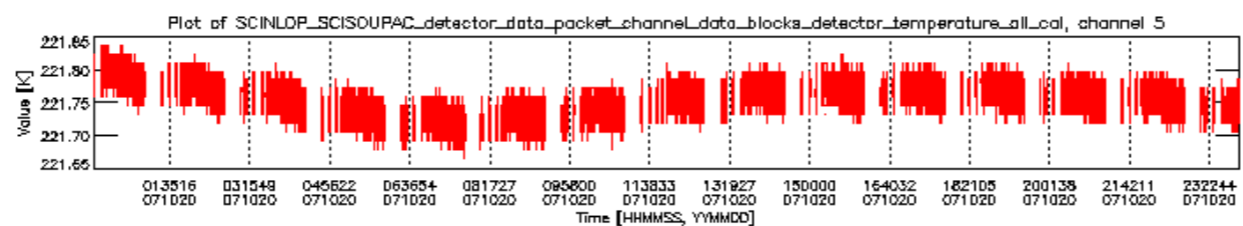
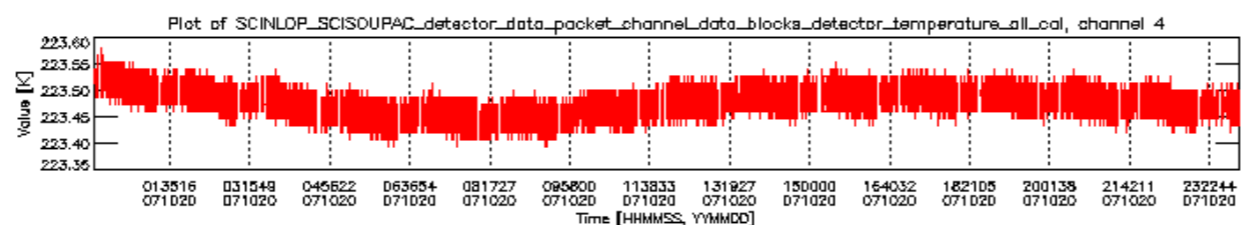
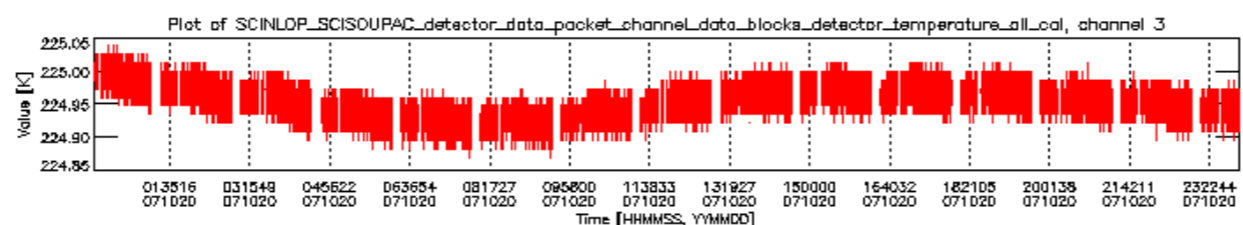
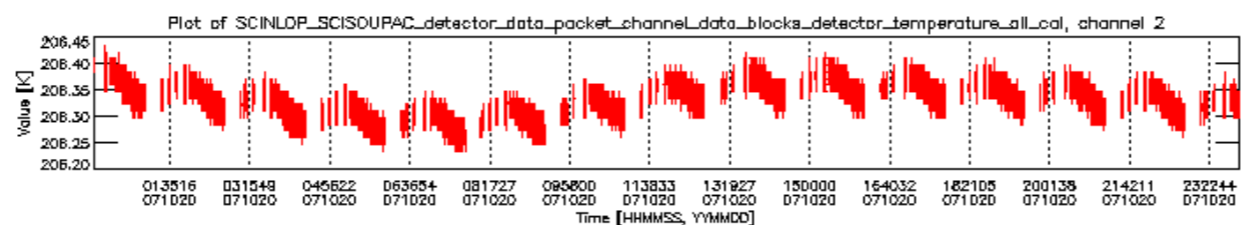
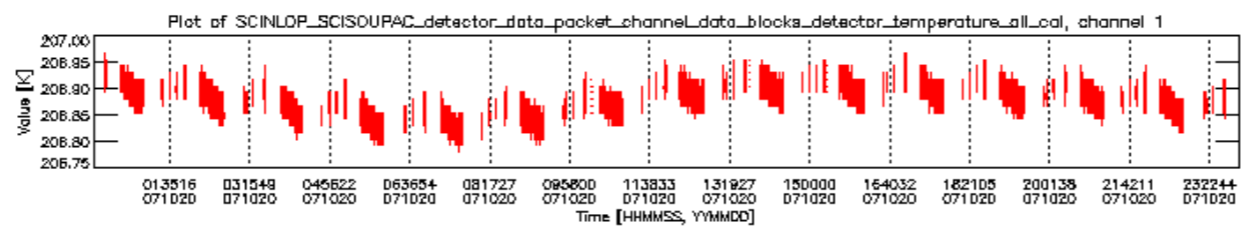
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071020_8.PNG



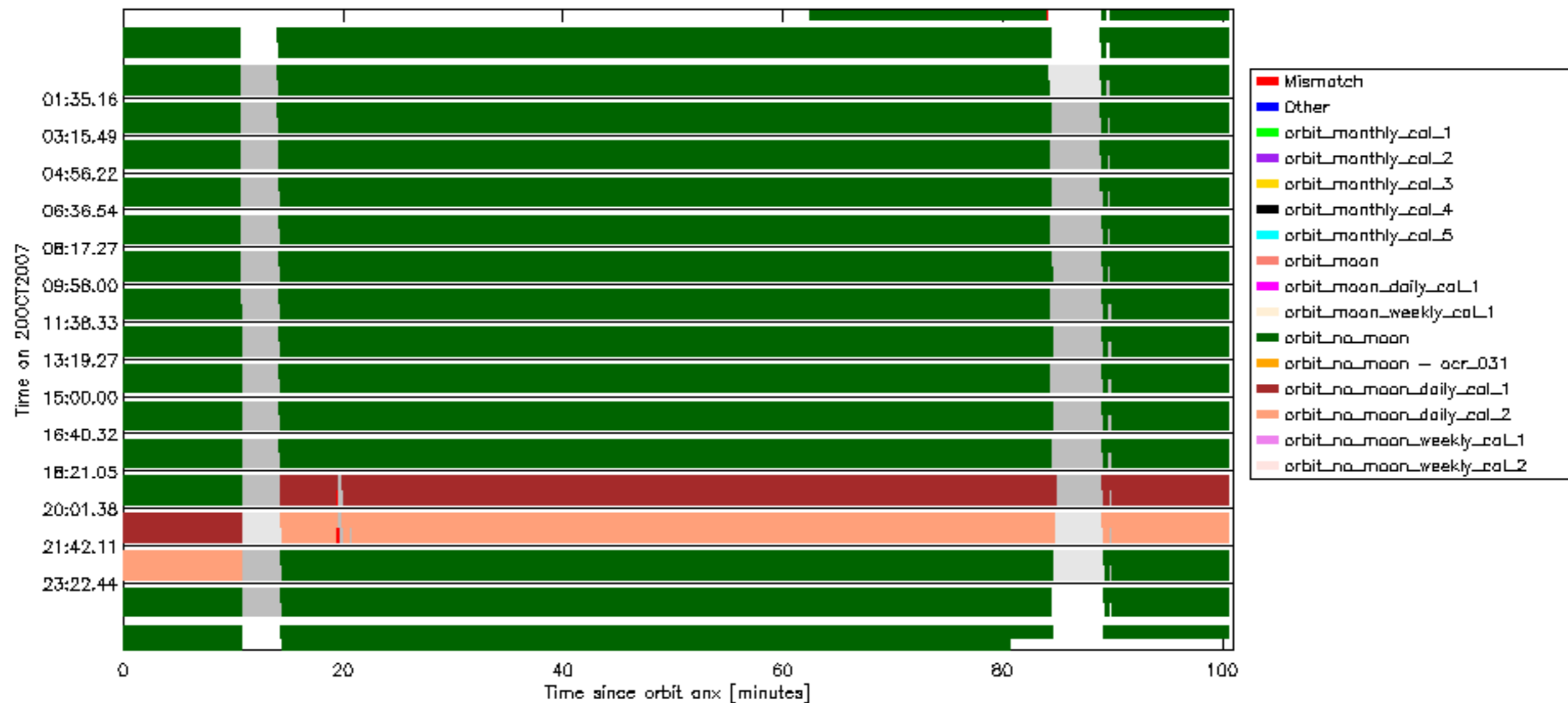


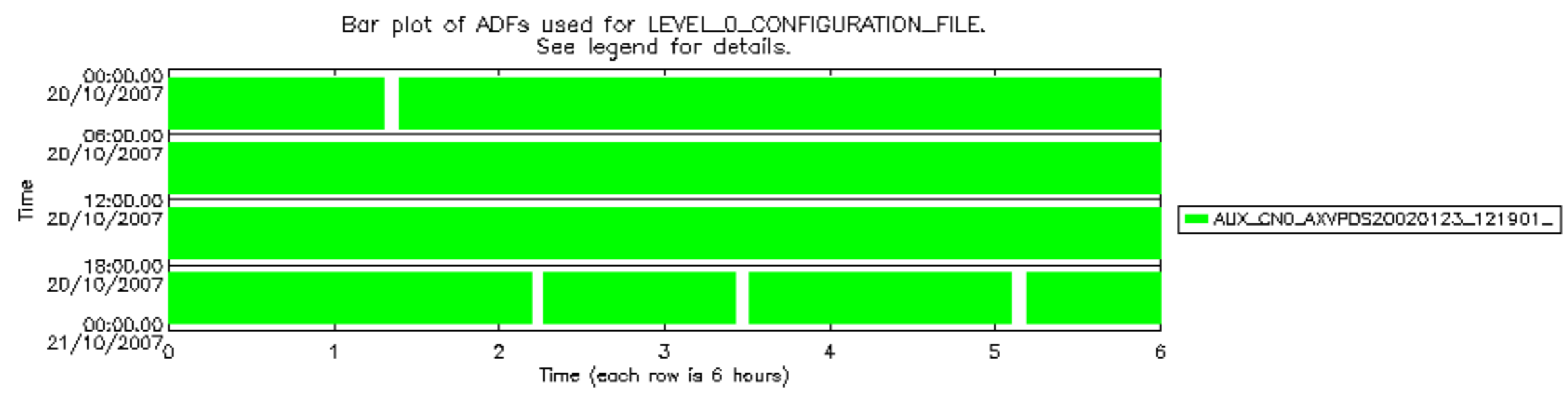






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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 The remaining colours indicate planned activities and/or special measurements.
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Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.
See legend for details.

