

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	29OCT2007 08:24:19
Data source version	KSPT_L0/4302-N
Processing scope for products	25OCT2007 00:00:00 to 26OCT2007 00:00:00
Start time of first product within scope	24OCT2007 22:46:06
Stop time of last product within scope	26OCT2007 01:28:45
Total number of level 0 products	18
Number of level 0 products with errors	2

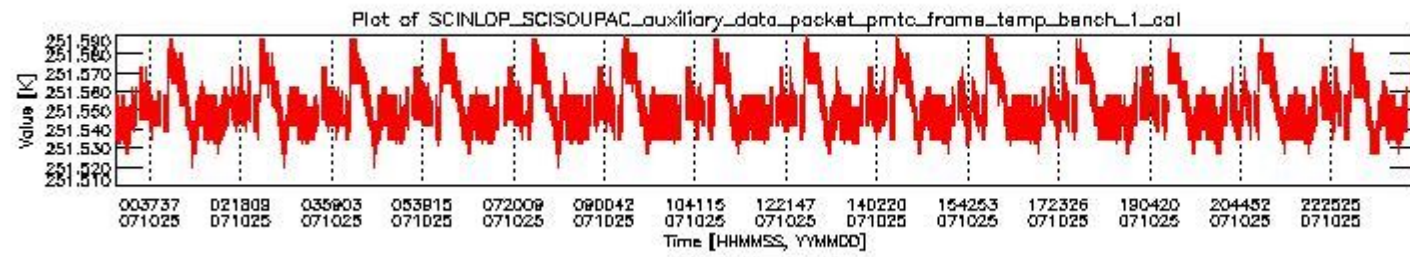
0.1.2 Summary per product

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

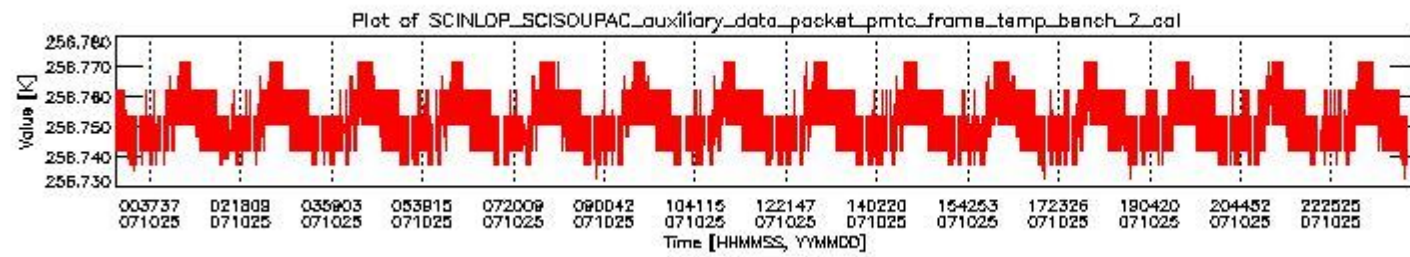
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071024_224606_000057382062_00430_29542_5440.N1	24OCT2007 22:46:06	25OCT2007 00:21:44	0	0	0	0	0
1	SCI_NL__OPNPDE20071025_002642_000057422062_00431_29543_5441.N1	25OCT2007 00:26:42	25OCT2007 02:02:24	0	0	0	0	0
2	SCI_NL__OPNPDE20071025_020224_000044832062_00432_29544_5442.N1	25OCT2007 02:02:24	25OCT2007 03:17:07	0	0	0	0	0
3	SCI_NL__OPNPDE20071025_031707_000061612062_00433_29545_5443.N1	25OCT2007 03:17:07	25OCT2007 04:59:48	0	0	0	0	0
4	SCI_NL__OPNPDE20071025_045948_000060362062_00434_29546_5444.N1	25OCT2007 04:59:48	25OCT2007 06:40:24	0	0	0	0	0
5	SCI_NL__OPNPDK20071025_064024_000040462062_00435_29547_6444.N1	25OCT2007 06:40:24	25OCT2007 07:47:50	0	0	0	0	0
6	SCI_NL__OPNPDK20071025_074654_000062172062_00436_29548_6445.N1	25OCT2007 07:46:54	25OCT2007 09:30:31	0	0	0	0	0
7	SCI_NL__OPNPDK20071025_092922_000058562062_00437_29549_6448.N1	25OCT2007 09:29:22	25OCT2007 11:06:58	0	0	0	0	0
8	SCI_NL__OPNPDK20071025_110602_000060922062_00438_29550_6449.N1	25OCT2007 11:06:02	25OCT2007 12:47:35	0	0	0	0	0
9	SCI_NL__OPNPDK20071025_124626_000014802062_00439_29551_6450.N1	25OCT2007 12:46:26	25OCT2007 13:11:06	1	1	1	0	0
10	SCI_NL__OPNPDK20071025_124626_000060492062_00439_29551_6214.N1	25OCT2007 12:46:26	25OCT2007 14:27:15	1	1	1	0	0
11	SCI_NL__OPNPDK20071025_142607_000058692062_00440_29552_6451.N1	25OCT2007 14:26:07	25OCT2007 16:03:55	0	0	0	0	0
12	SCI_NL__OPNPDK20071025_160137_000061162062_00441_29553_6452.N1	25OCT2007 16:01:37	25OCT2007 17:43:33	0	0	0	0	0
13	SCI_NL__OPNPDK20071025_174214_000059242062_00442_29554_6453.N1	25OCT2007 17:42:14	25OCT2007 19:20:58	0	0	0	0	0
14	SCI_NL__OPNPDK20071025_191906_000061482062_00443_29555_6454.N1	25OCT2007 19:19:06	25OCT2007 21:01:34	0	0	0	0	0
15	SCI_NL__OPNPDE20071025_205942_000040422062_00444_29556_5445.N1	25OCT2007 20:59:42	25OCT2007 22:07:04	0	0	0	0	0
16	SCI_NL__OPNPDE20071025_221435_000056372062_00444_29556_5446.N1	25OCT2007 22:14:35	25OCT2007 23:48:32	0	0	0	0	0
17	SCI_NL__OPNPDE20071025_235511_000056132062_00445_29557_5447.N1	25OCT2007 23:55:11	26OCT2007 01:28:45	0	0	0	0	0

0.2 Product Quality Indicators

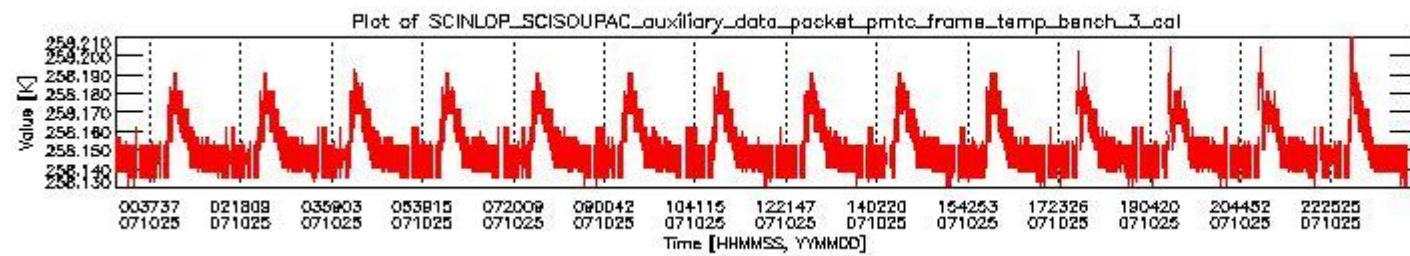
This section shows information about product quality, currently temperatures.



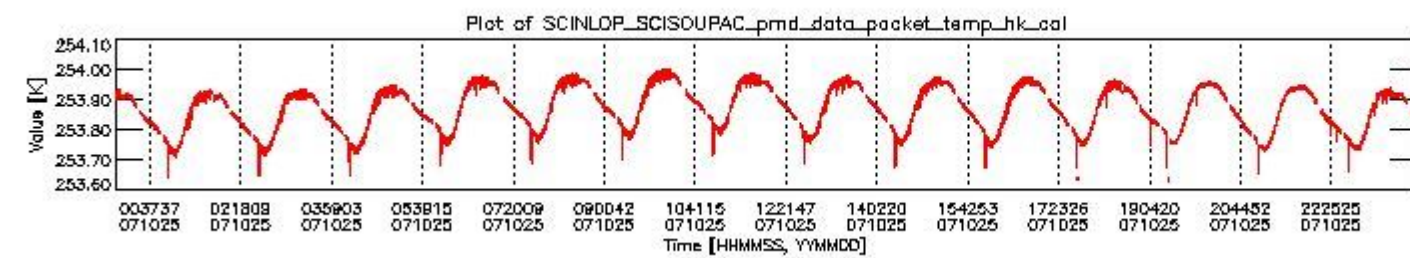
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071025_0.PNG



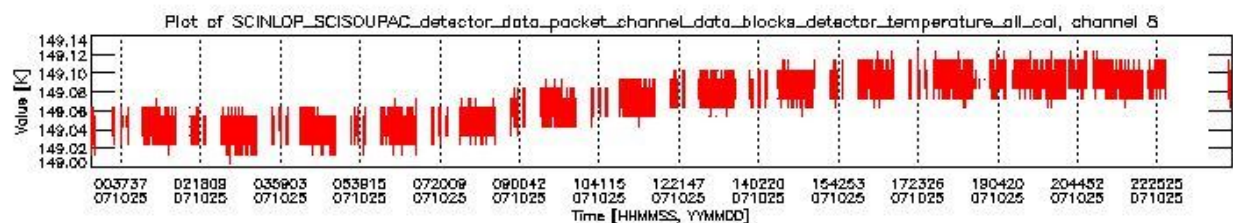
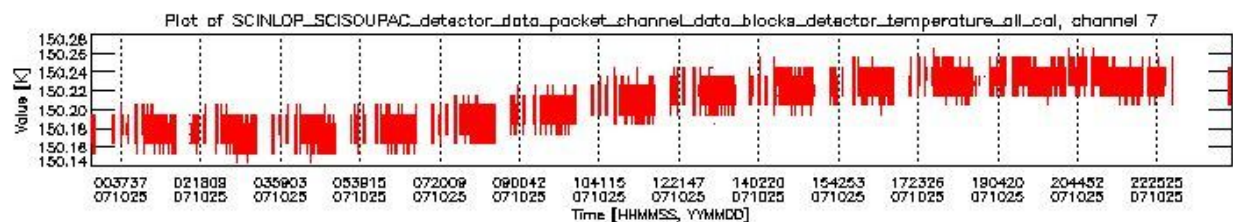
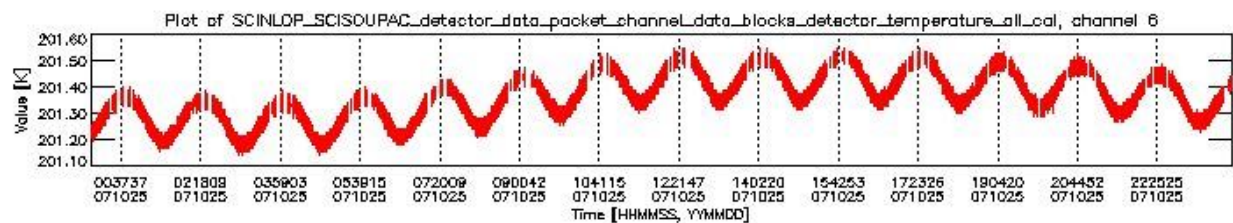
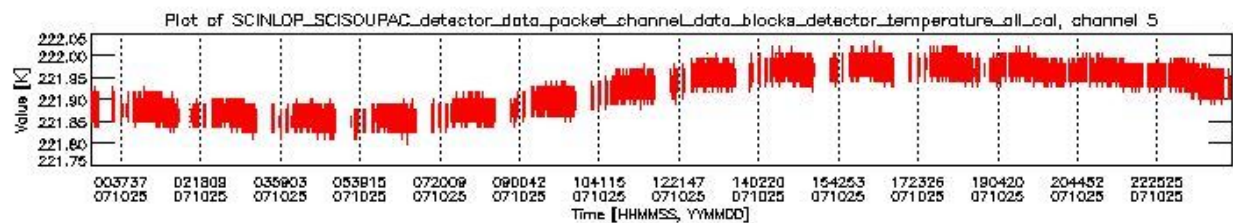
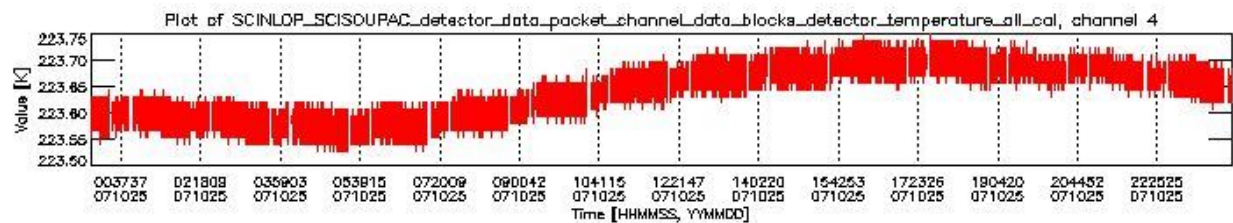
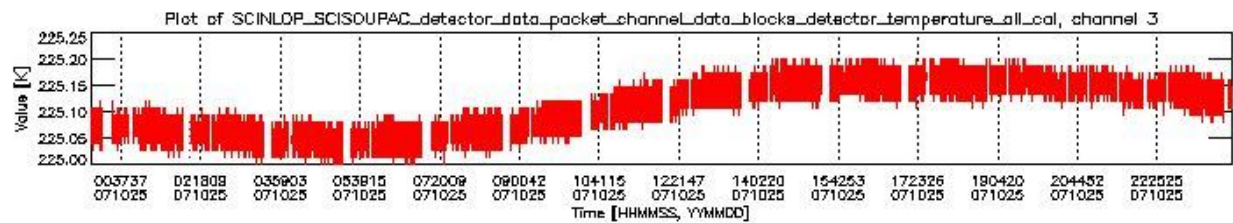
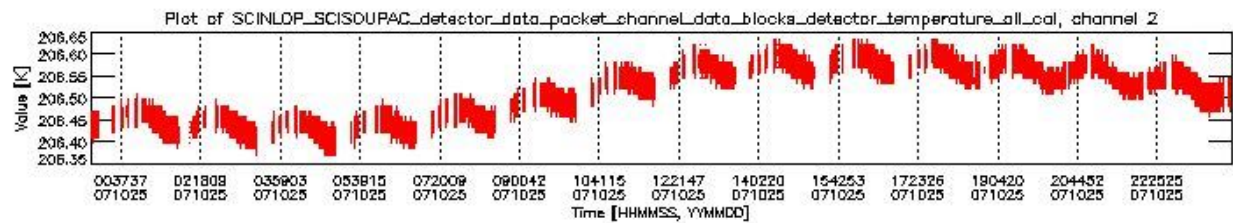
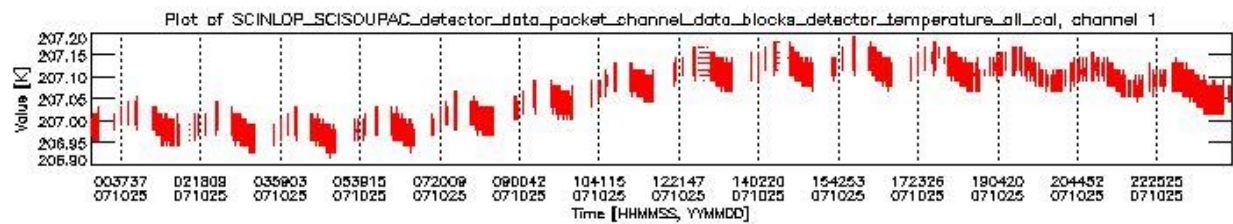
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071025_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4302_N_20071025_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4302_N_20071025_3.PNG

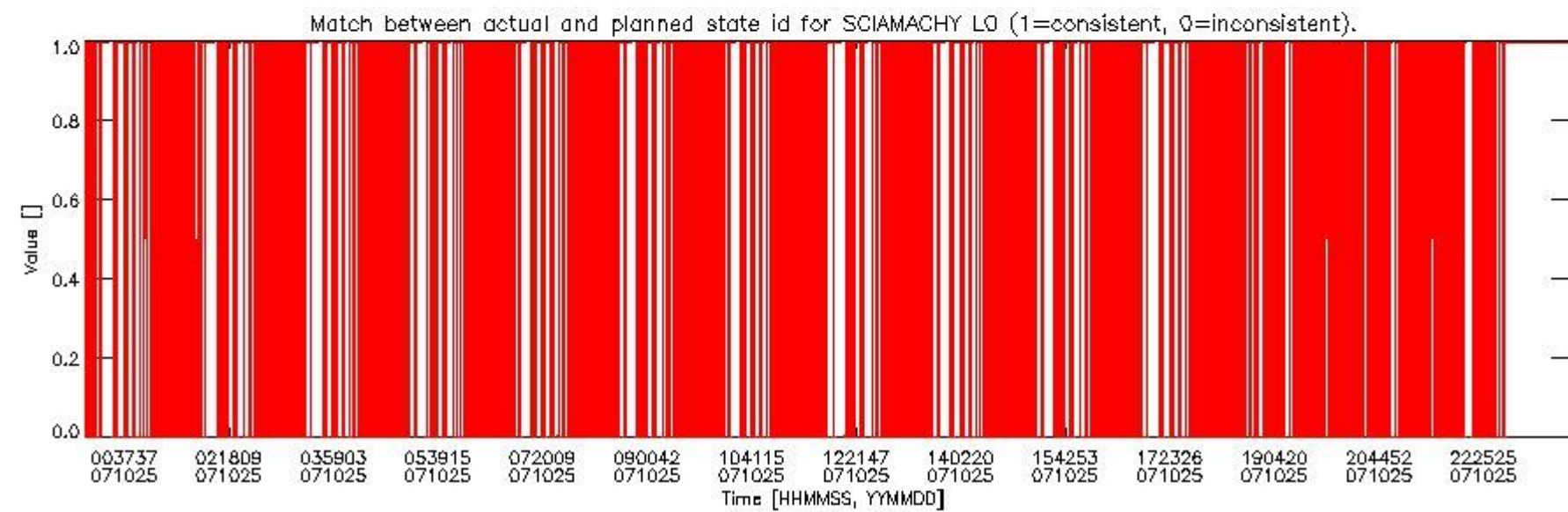
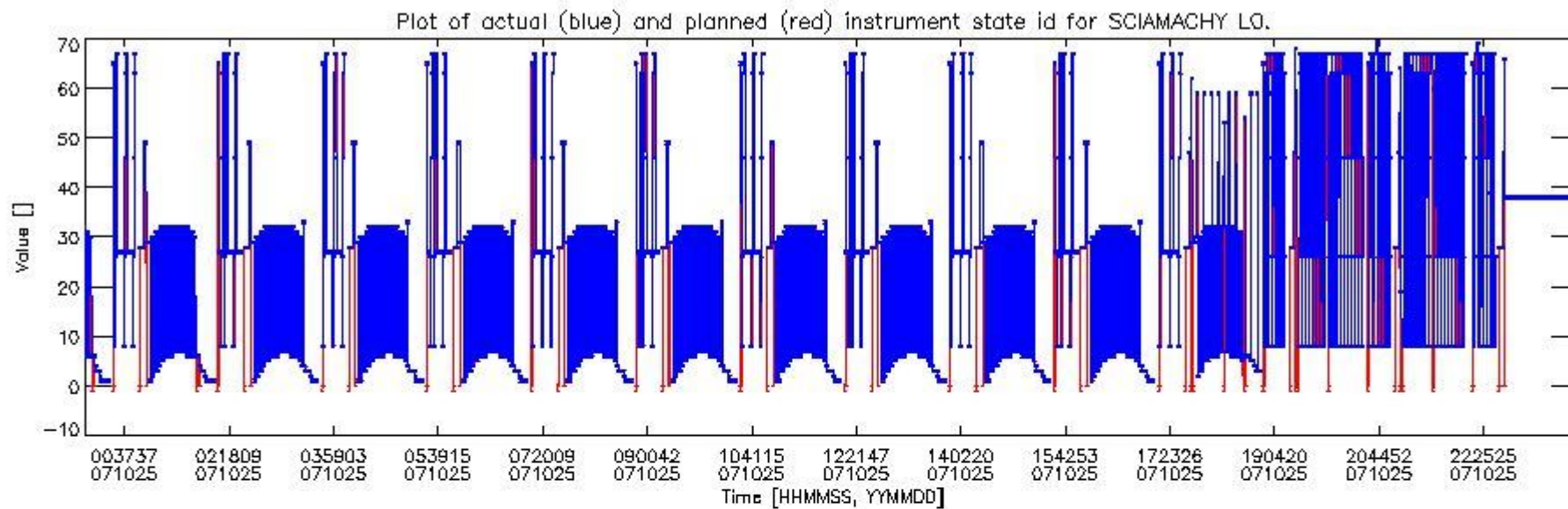


0.3 State monitoring

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: **31523**

#	Actual time	Actual value	Planned time	Planned value
0	25OCT2007 00:00:03.808227	31	25OCT2007 00:00:03.808227	6
1	25OCT2007 00:00:04.433249	31	25OCT2007 00:00:04.433249	6
2	25OCT2007 00:00:04.808222	31	25OCT2007 00:00:04.808222	6
3	25OCT2007 00:00:05.183235	31	25OCT2007 00:00:05.183235	6
4	25OCT2007 00:00:05.745734	31	25OCT2007 00:00:05.745734	6
5	25OCT2007 00:00:06.120747	31	25OCT2007 00:00:06.120747	6
6	25OCT2007 00:00:06.495720	31	25OCT2007 00:00:06.495720	6
7	25OCT2007 00:00:06.870733	31	25OCT2007 00:00:06.870733	6
8	25OCT2007 00:00:07.433233	31	25OCT2007 00:00:07.433233	6
9	25OCT2007 00:00:07.808246	31	25OCT2007 00:00:07.808246	6
10	25OCT2007 00:00:08.183219	31	25OCT2007 00:00:08.183219	6
11	25OCT2007 00:00:08.558232	31	25OCT2007 00:00:08.558232	6
12	25OCT2007 00:00:08.808240	31	25OCT2007 00:00:08.808240	6
13	25OCT2007 00:00:09.120731	31	25OCT2007 00:00:09.120731	6
14	25OCT2007 00:00:09.495744	31	25OCT2007 00:00:09.495744	6
15	25OCT2007 00:00:09.870717	31	25OCT2007 00:00:09.870717	6
16	25OCT2007 00:00:10.245730	31	25OCT2007 00:00:10.245730	6
17	25OCT2007 00:00:10.808229	31	25OCT2007 00:00:10.808229	6
18	25OCT2007 00:00:59.679338	6	25OCT2007 00:00:59.679338	31
19	25OCT2007 00:01:00.054311	6	25OCT2007 00:01:00.054311	31

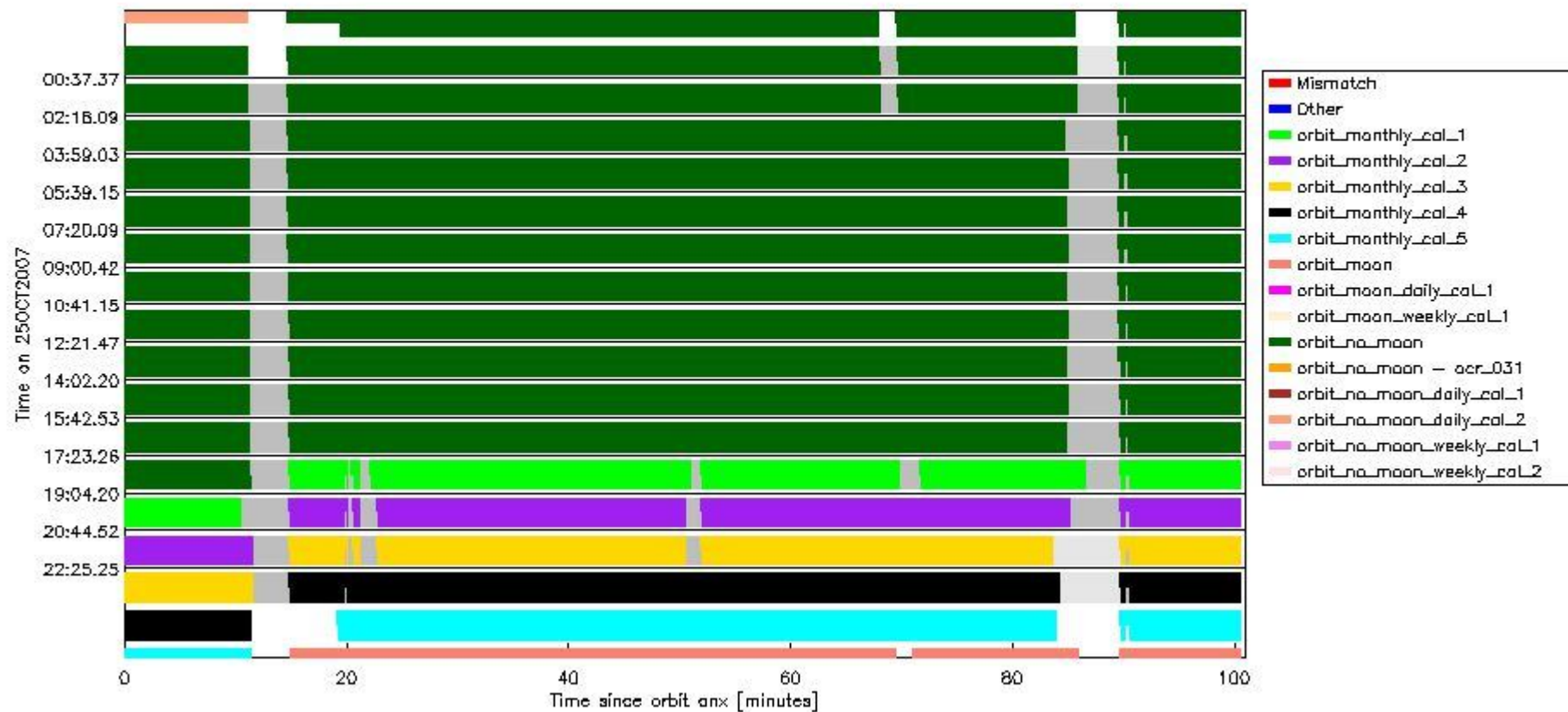


sciamachy_daily_report_level0_KSPT_L0_4302_N_20071025_5.PNG

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 25OCT2007.
 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_20071025_6.PNG

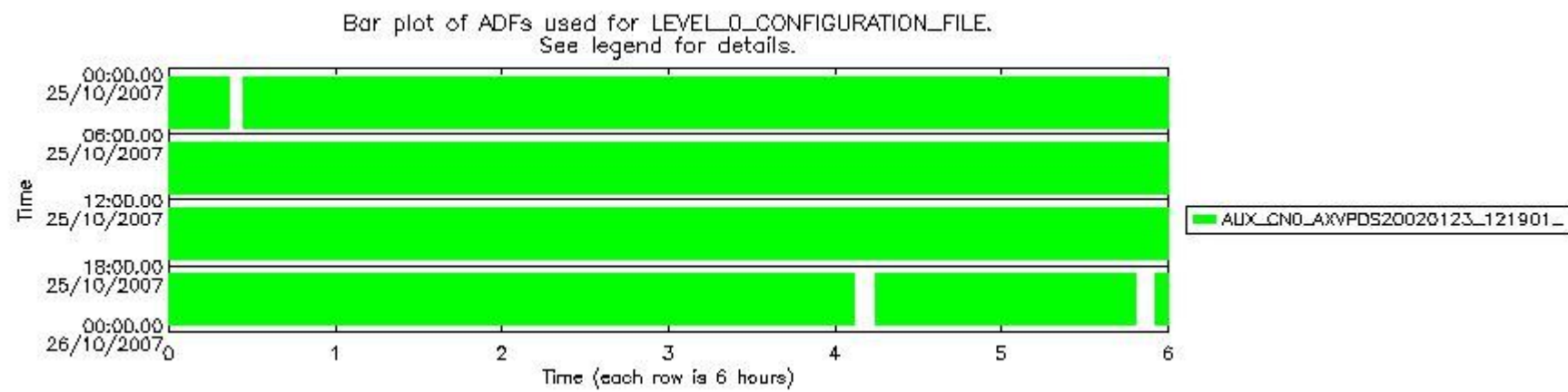
0.4 ADF monitoring

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

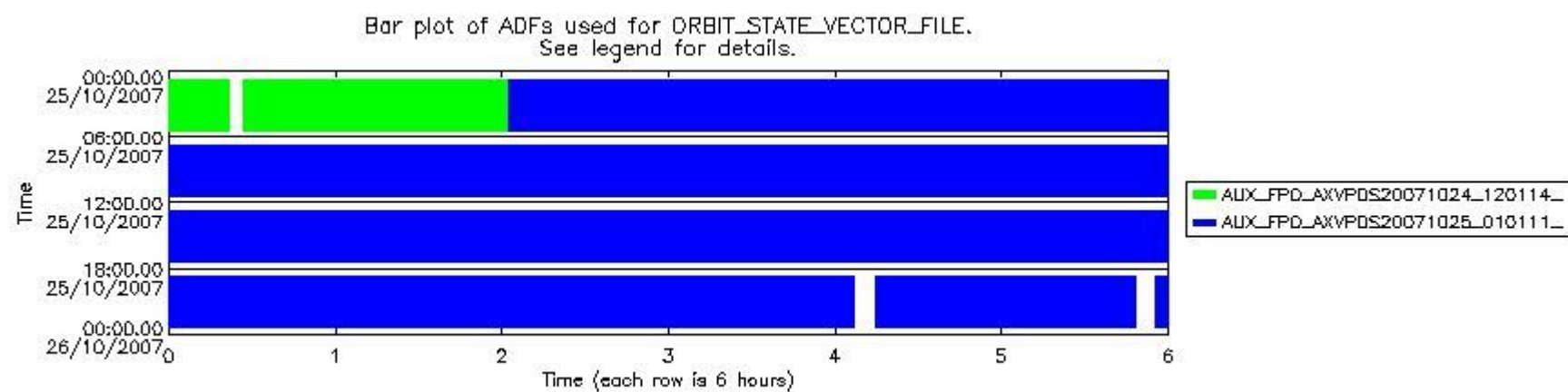
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

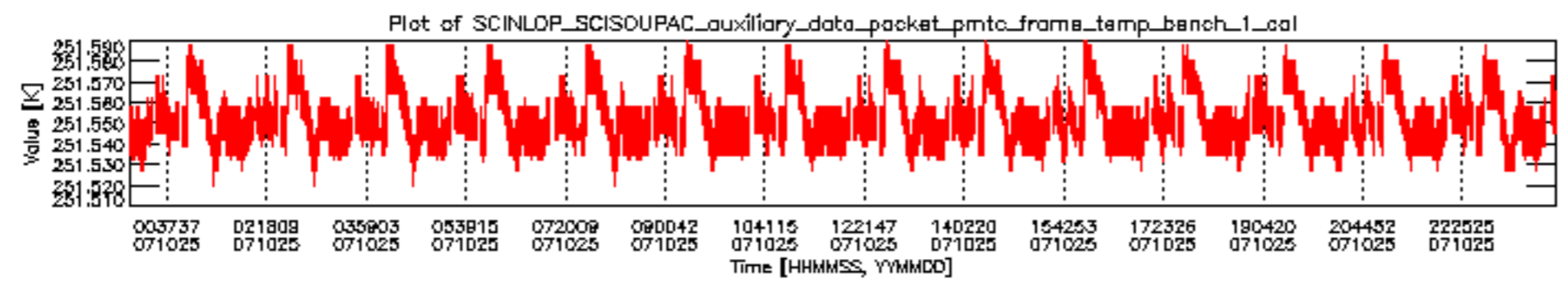
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20071024_120114_20071023_182651_20071102_213340
2	AUX_FPO_AXVPDS20071025_010111_20071024_093214_20071102_231416

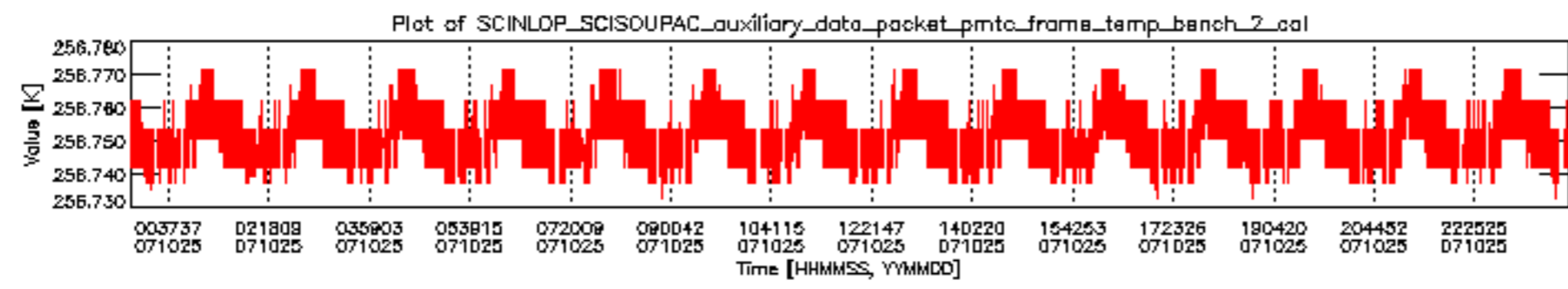


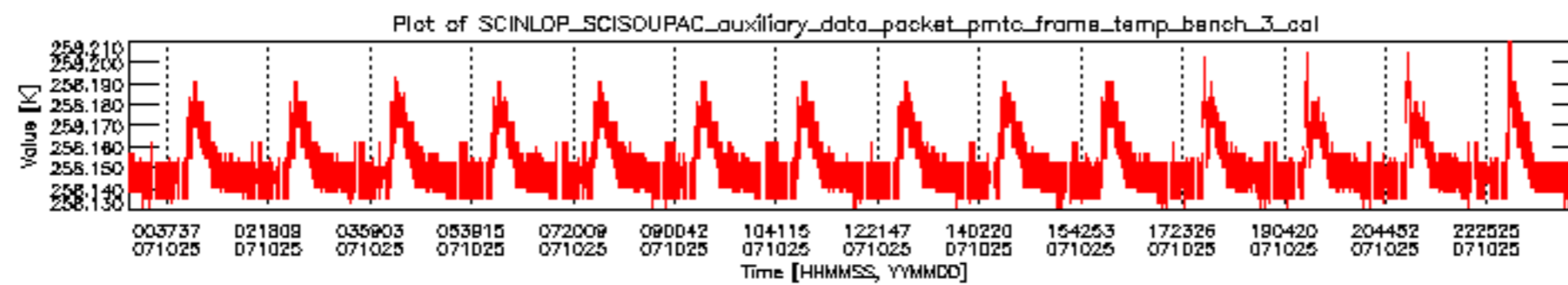
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071025_7.PNG

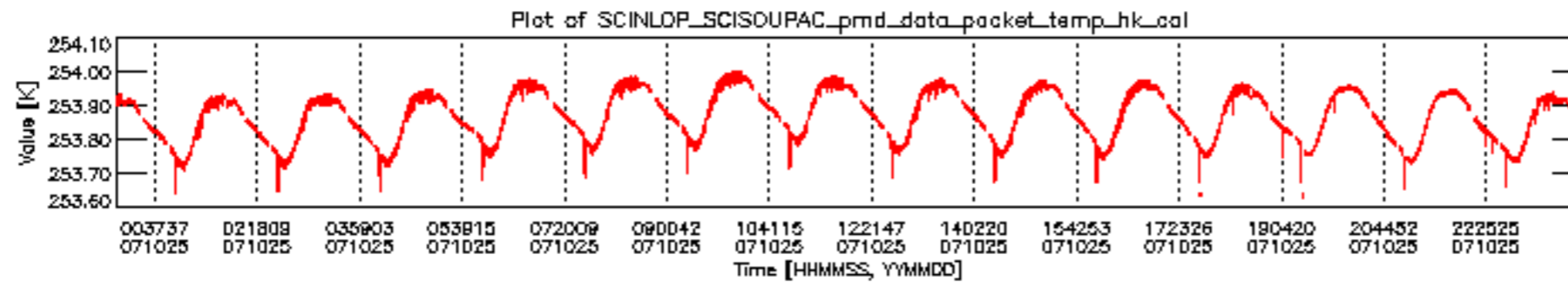


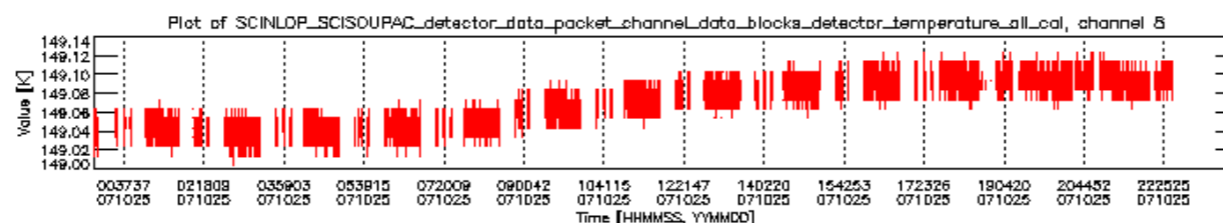
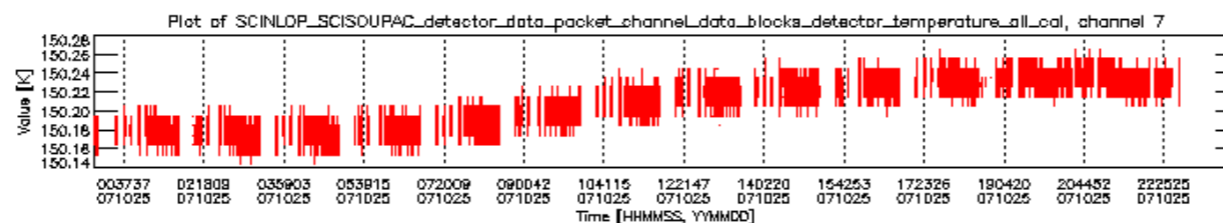
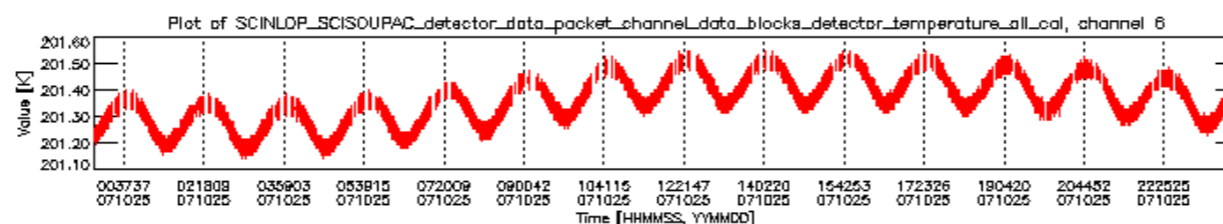
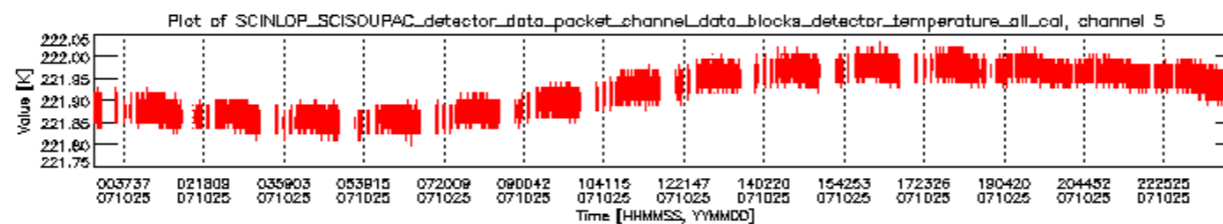
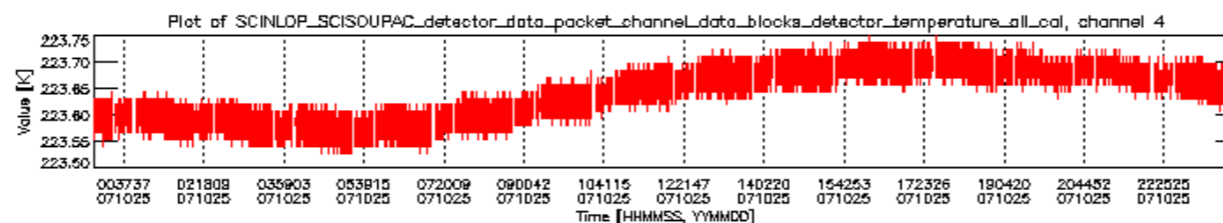
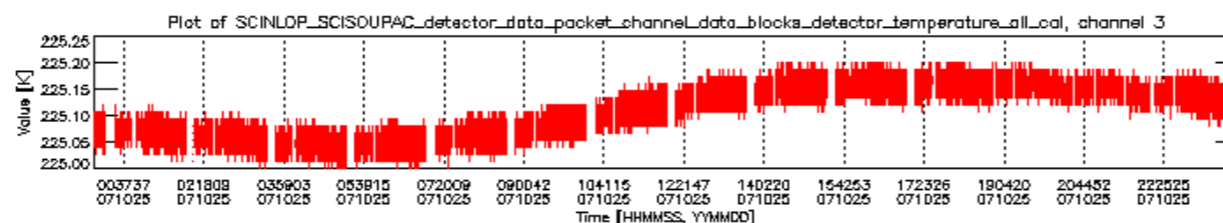
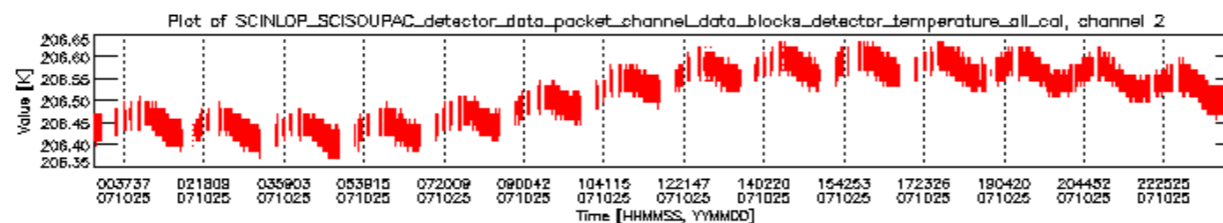
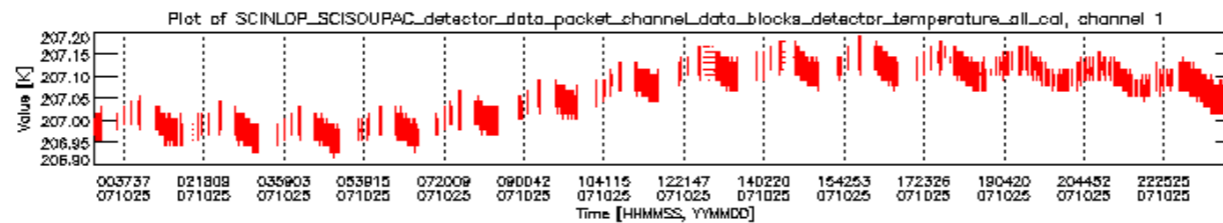
sciamachy_daily_report_level0_KSPT_L0_4302_N_20071025_8.PNG

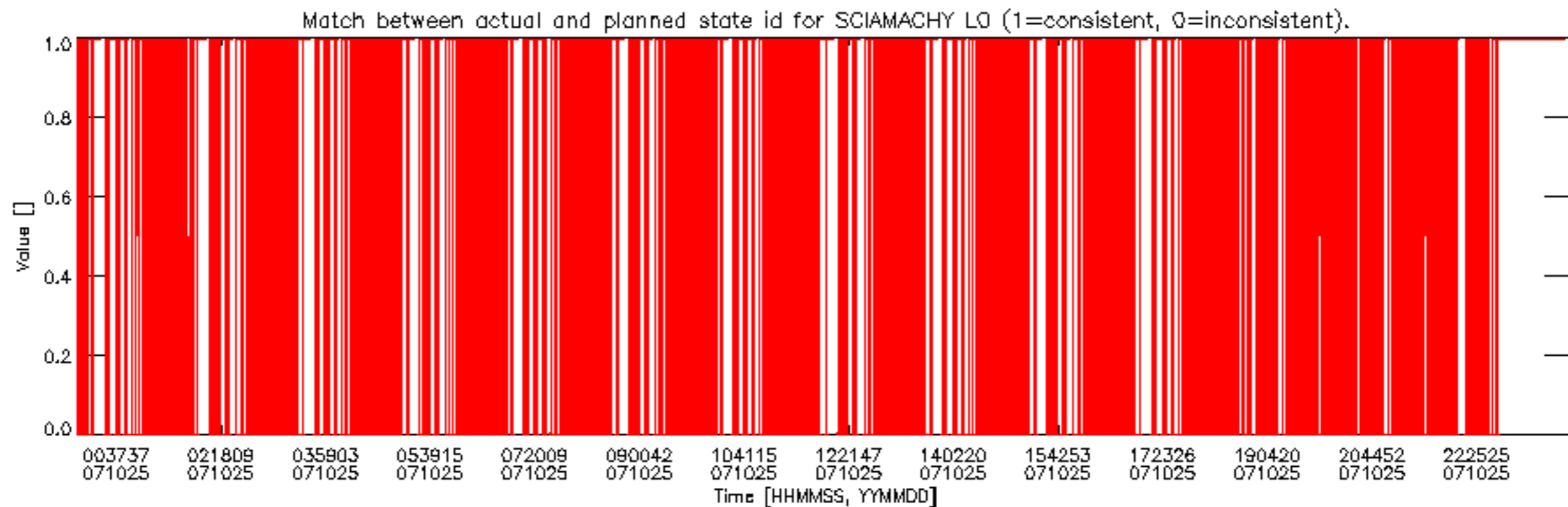
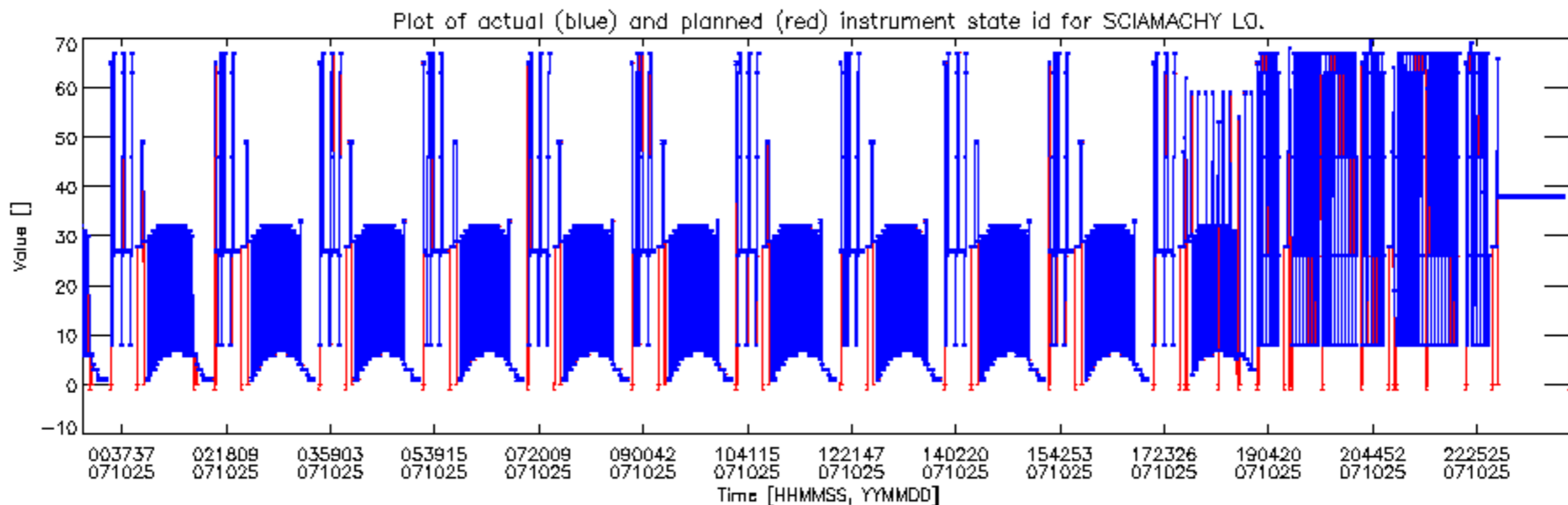




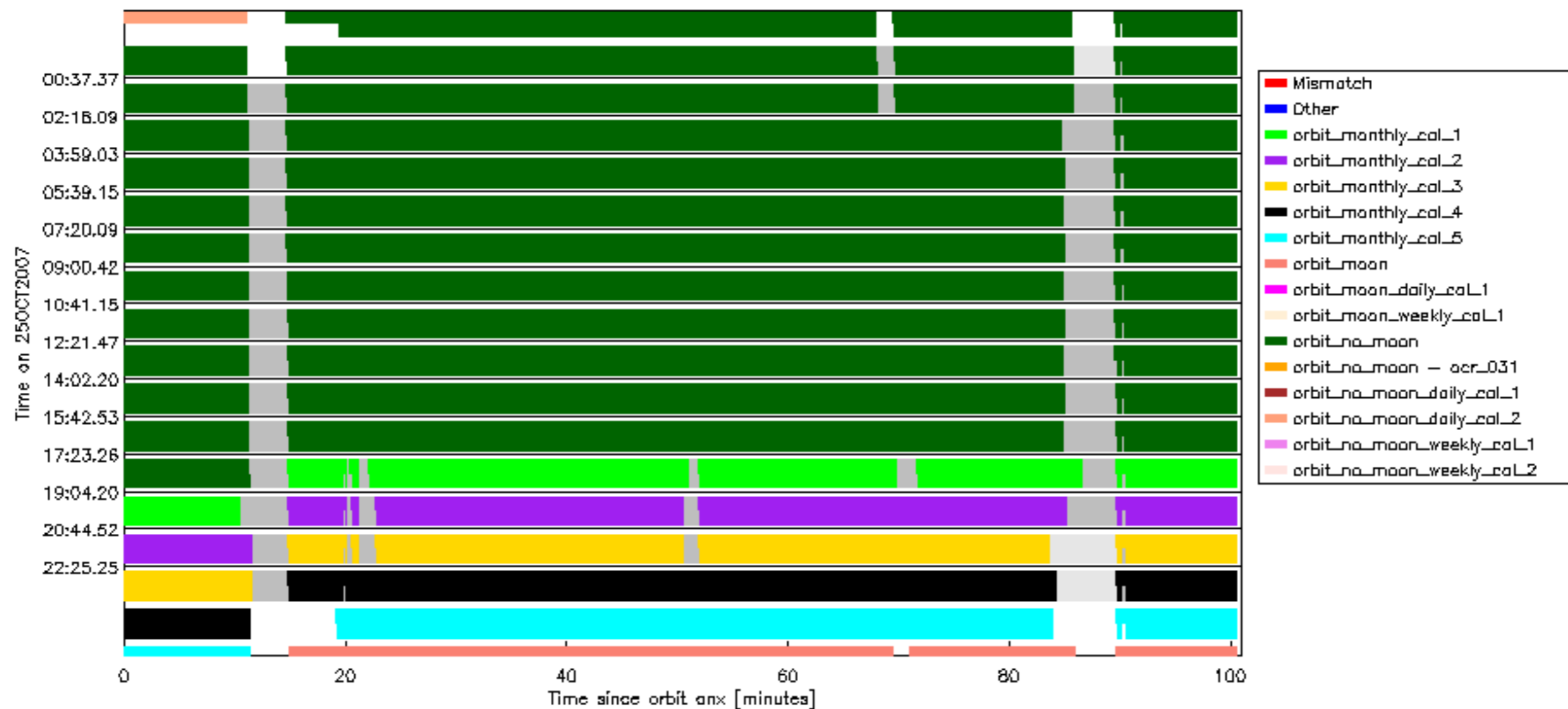


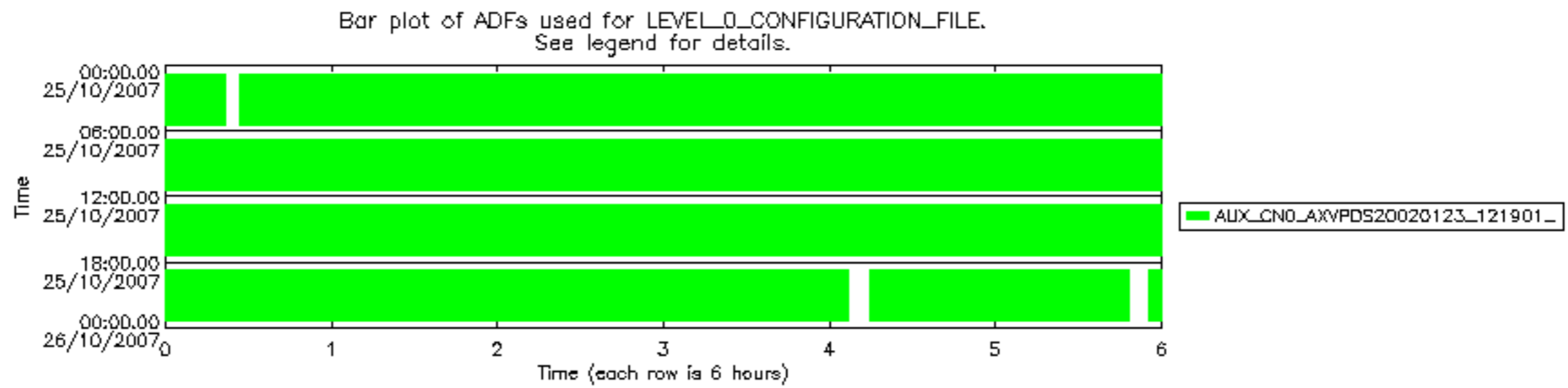






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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 The remaining colours indicate planned activities and/or special measurements.
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Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.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

