

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	29DEC2008 08:52:58
Data source version	KSPT_L0/4303-N
Processing scope for products	22DEC2008 00:00:00 to 23DEC2008 00:00:00
Start time of first product within scope	22DEC2008 00:04:49
Stop time of last product within scope	23DEC2008 01:07:08
Total number of level 0 products	15
Number of level 0 products with errors	0

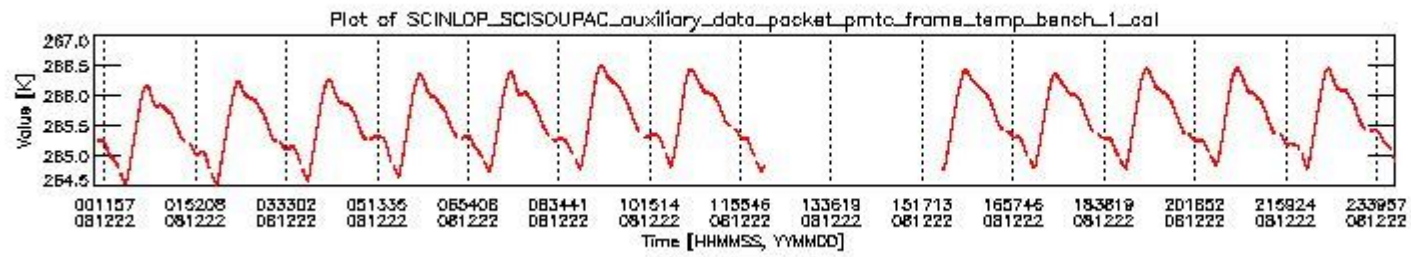
0.1.2 Summary per product

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

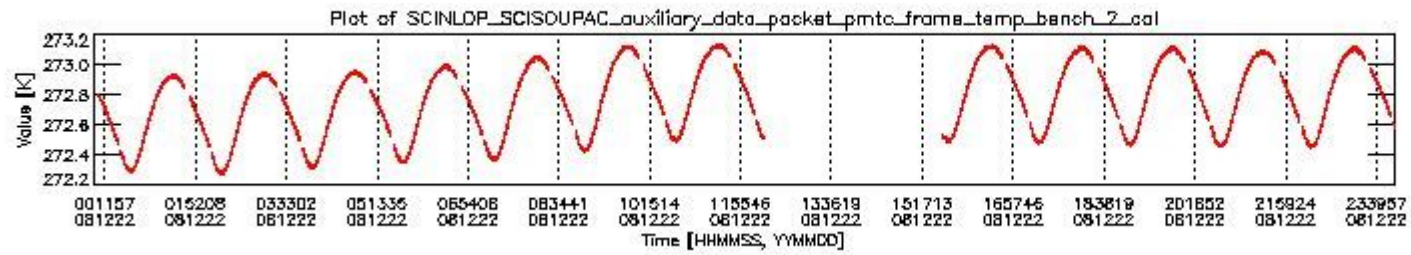
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081222_000449_000055692074_00488_35612_8144.N1	22DEC2008 00:04:49	22DEC2008 01:37:37	0	0	0	0	0
1	SCI_NL__OPNPDE20081222_013737_000047412074_00489_35613_8145.N1	22DEC2008 01:37:37	22DEC2008 02:56:38	0	0	0	0	0
2	SCI_NL__OPNPDE20081222_025638_000058432074_00490_35614_8146.N1	22DEC2008 02:56:38	22DEC2008 04:34:01	0	0	0	0	0
3	SCI_NL__OPNPDE20081222_043305_000061052074_00491_35615_8147.N1	22DEC2008 04:33:05	22DEC2008 06:14:49	0	0	0	0	0
4	SCI_NL__OPNPDK20081222_061341_000041692074_00492_35616_0255.N1	22DEC2008 06:13:41	22DEC2008 07:23:10	0	0	0	0	0
5	SCI_NL__OPNPDK20081222_072202_000061042074_00493_35617_0256.N1	22DEC2008 07:22:02	22DEC2008 09:03:46	0	0	0	0	0
6	SCI_NL__OPNPDK20081222_090250_000060922074_00494_35618_0257.N1	22DEC2008 09:02:50	22DEC2008 10:44:22	0	0	0	0	0
7	SCI_NL__OPNPDK20081222_104218_000059242074_00495_35619_0258.N1	22DEC2008 10:42:18	22DEC2008 12:21:02	0	0	0	0	0
8	SCI_NL__OPNPDK20081222_153900_000055932074_00498_35622_0261.N1	22DEC2008 15:39:00	22DEC2008 17:12:13	0	0	0	0	0
9	SCI_NL__OPNPDK20081222_171551_000057782074_00499_35623_0262.N1	22DEC2008 17:15:51	22DEC2008 18:52:09	0	0	0	0	0
10	SCI_NL__OPNPDK20081222_185209_000060752074_00500_35624_0263.N1	22DEC2008 18:52:09	22DEC2008 20:33:25	0	0	0	0	0
11	SCI_NL__OPNPDE20081222_203156_000044402074_00501_35625_8148.N1	22DEC2008 20:31:56	22DEC2008 21:45:56	0	0	0	0	0
12	SCI_NL__OPNPDK20081222_214448_000017132074_00501_35625_0264.N1	22DEC2008 21:44:48	22DEC2008 22:13:21	0	0	0	0	0
13	SCI_NL__OPNPDE20081222_221234_000044512075_00001_35626_8149.N1	22DEC2008 22:12:34	22DEC2008 23:26:45	0	0	0	0	0
14	SCI_NL__OPNPDE20081222_232536_000060922075_00001_35626_8150.N1	22DEC2008 23:25:36	23DEC2008 01:07:08	0	0	0	0	0

0.2 Product Quality Indicators

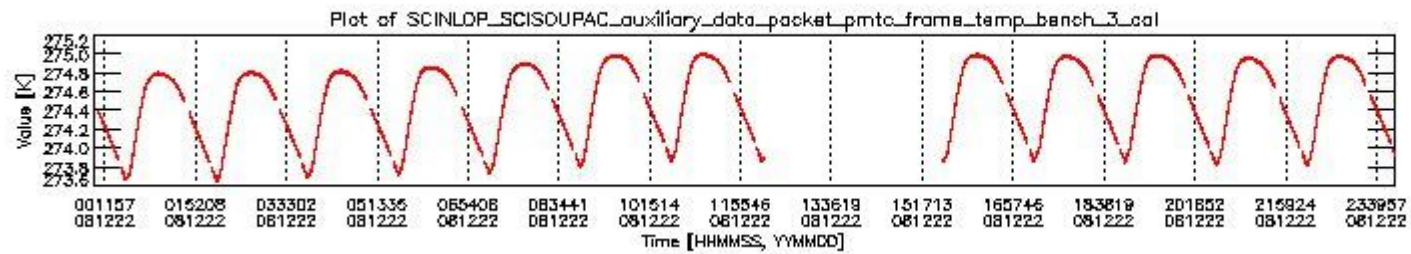
This section shows information about product quality, currently temperatures.



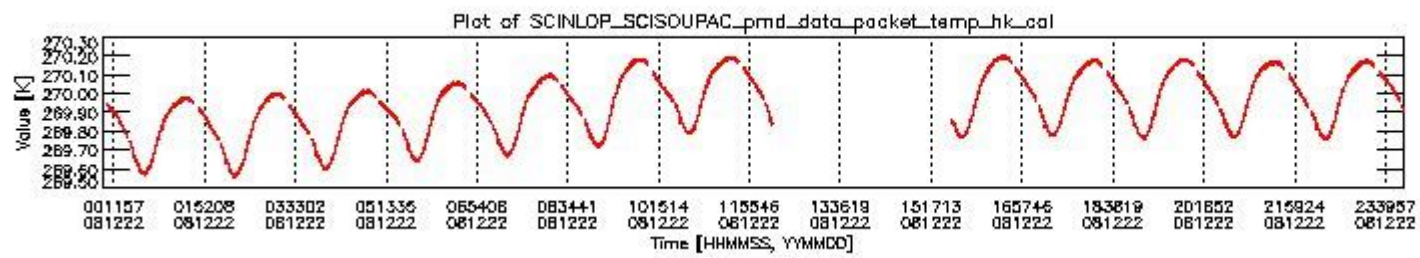
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081222_0.PNG



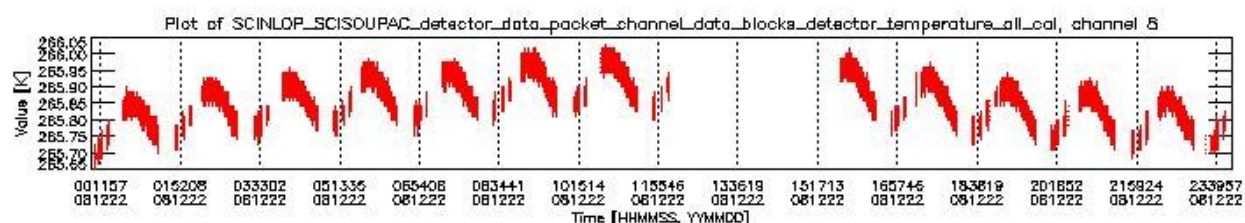
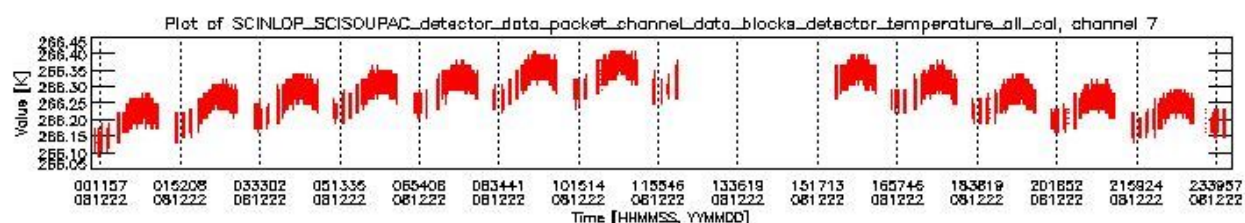
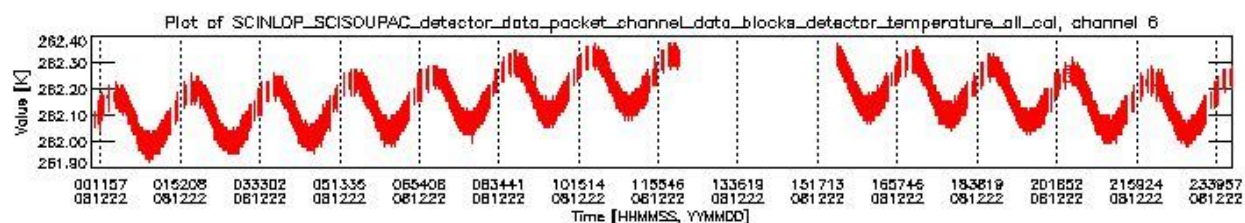
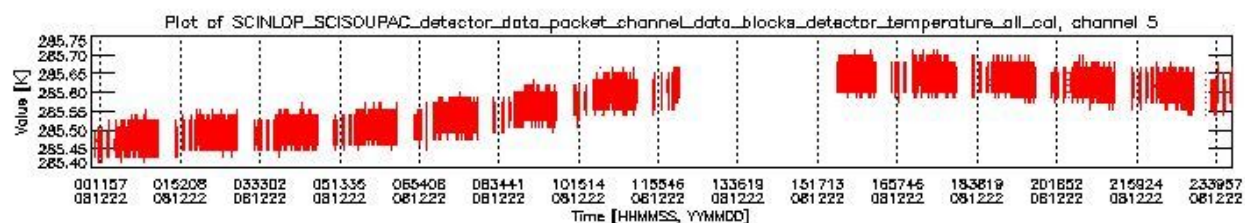
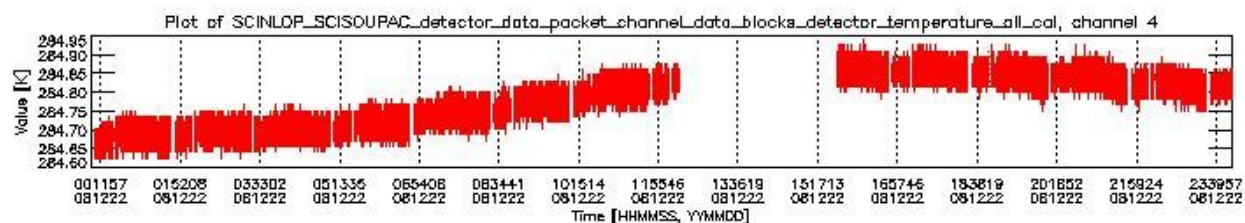
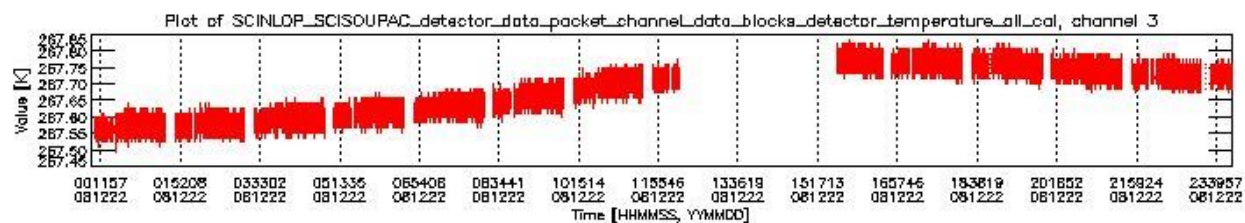
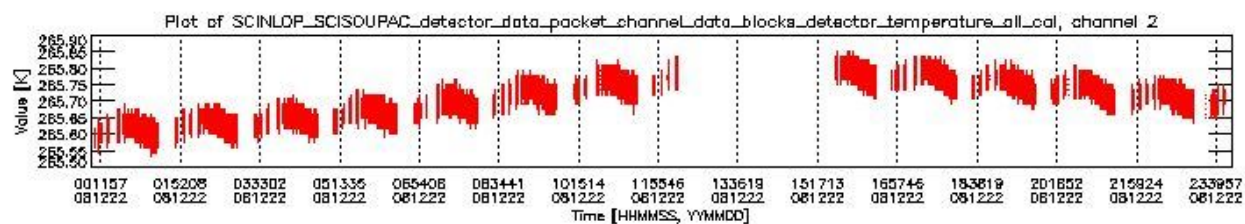
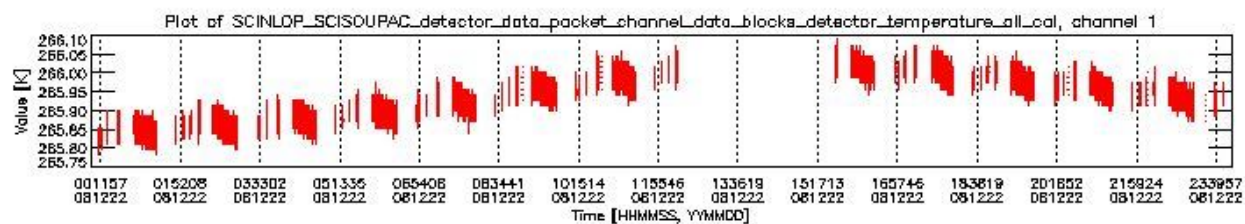
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081222_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20081222_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20081222_3.PNG

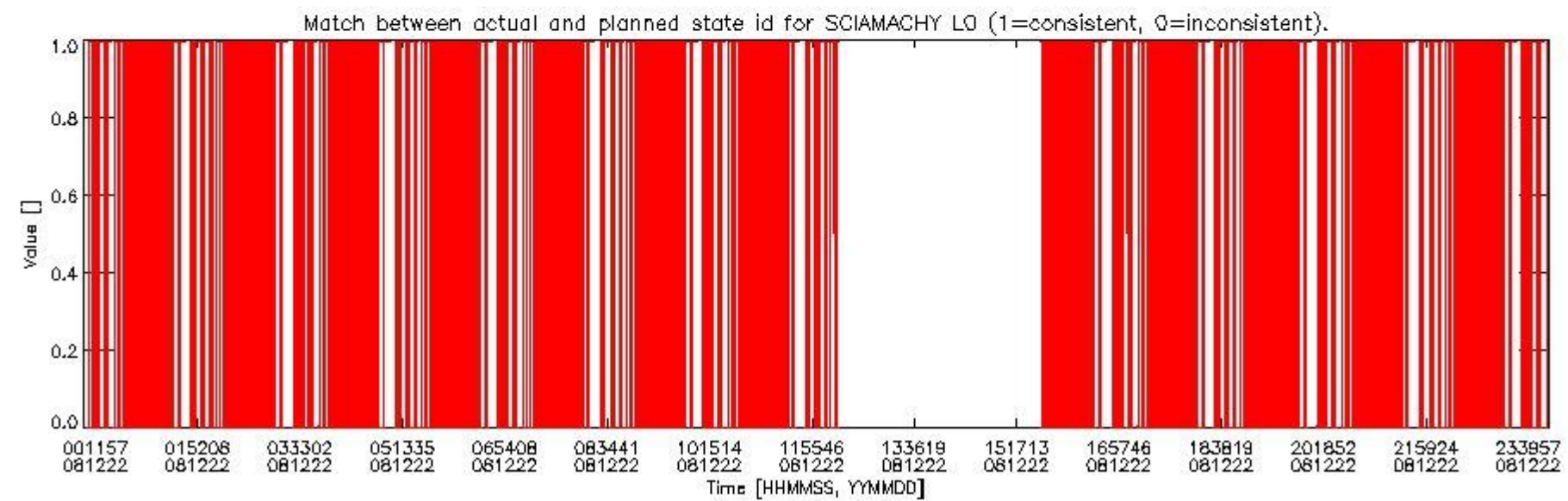
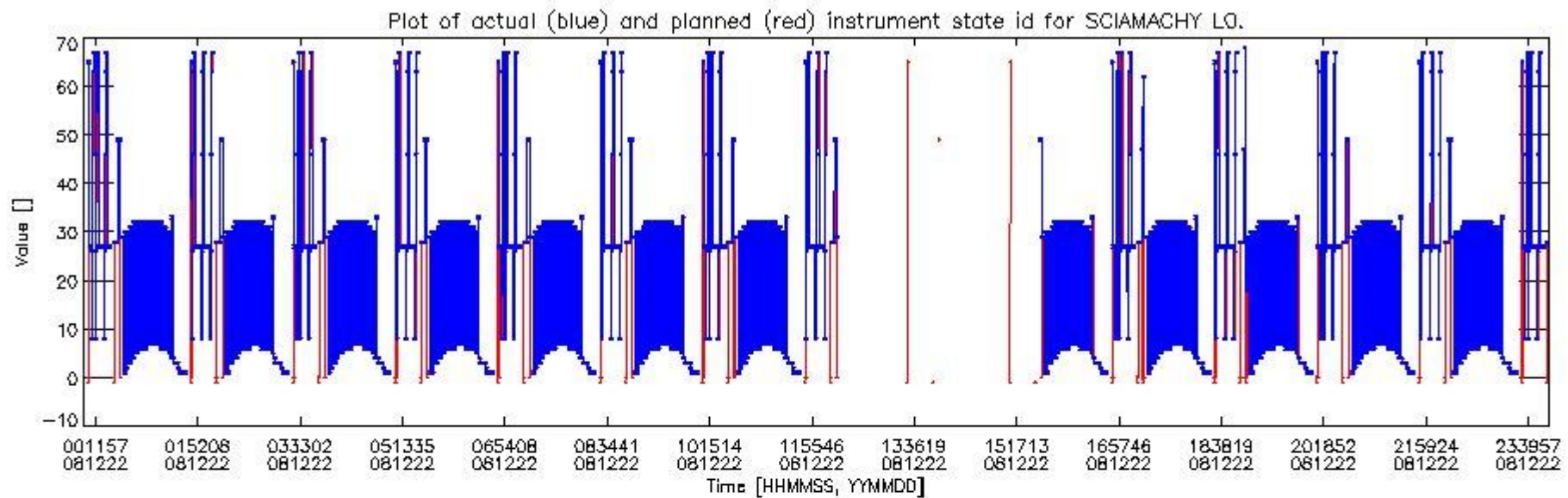


0.3 State monitoring

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: **41455**

#	Actual time	Actual value	Planned time	Planned value
0	22DEC2008 00:04:49.107142	65	22DEC2008 00:04:49.107142	0
1	22DEC2008 00:04:49.732124	65	22DEC2008 00:04:49.732124	0
2	22DEC2008 00:04:50.232141	65	22DEC2008 00:04:50.232141	0
3	22DEC2008 00:04:50.732118	65	22DEC2008 00:04:50.732118	0
4	22DEC2008 00:04:51.232136	65	22DEC2008 00:04:51.232136	0
5	22DEC2008 00:04:51.732153	65	22DEC2008 00:04:51.732153	0
6	22DEC2008 00:04:52.232130	65	22DEC2008 00:04:52.232130	0
7	22DEC2008 00:04:52.732148	65	22DEC2008 00:04:52.732148	0
8	22DEC2008 00:04:53.232125	65	22DEC2008 00:04:53.232125	0
9	22DEC2008 00:04:53.732142	65	22DEC2008 00:04:53.732142	0
10	22DEC2008 00:04:54.107115	65	22DEC2008 00:04:54.107115	0
11	22DEC2008 00:04:54.232120	65	22DEC2008 00:04:54.232120	0
12	22DEC2008 00:04:54.732137	65	22DEC2008 00:04:54.732137	0
13	22DEC2008 00:04:55.232114	65	22DEC2008 00:04:55.232114	0
14	22DEC2008 00:04:55.732132	65	22DEC2008 00:04:55.732132	0
15	22DEC2008 00:04:56.232149	65	22DEC2008 00:04:56.232149	0
16	22DEC2008 00:04:56.732126	65	22DEC2008 00:04:56.732126	0
17	22DEC2008 00:05:32.864942	27	22DEC2008 00:05:32.864942	0
18	22DEC2008 00:05:33.864936	27	22DEC2008 00:05:33.864936	0
19	22DEC2008 00:05:34.802449	27	22DEC2008 00:05:34.802449	0
...

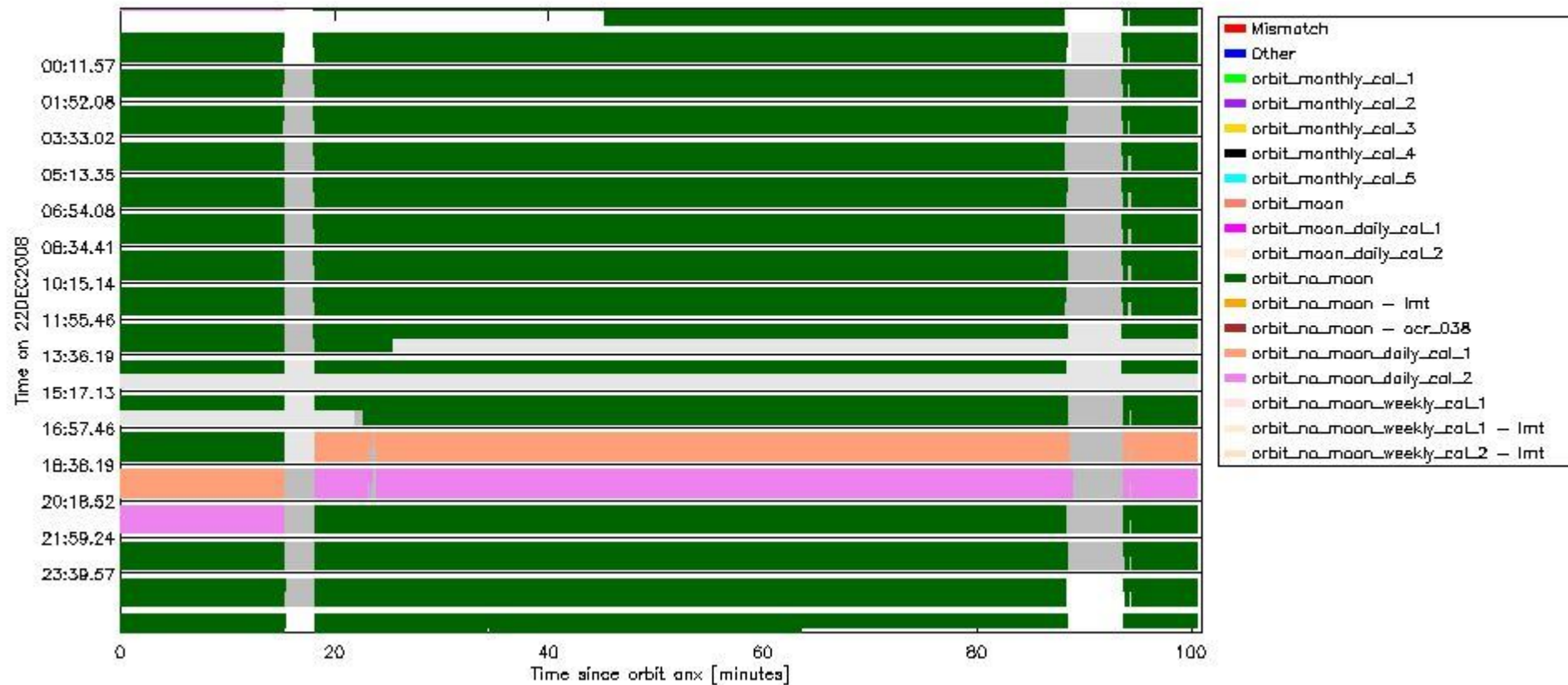


sciamachy_daily_report_level0_KSPT_L0_4303_N_20081222_5.PNG

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 22DEC2008.
 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_20081222_6.PNG

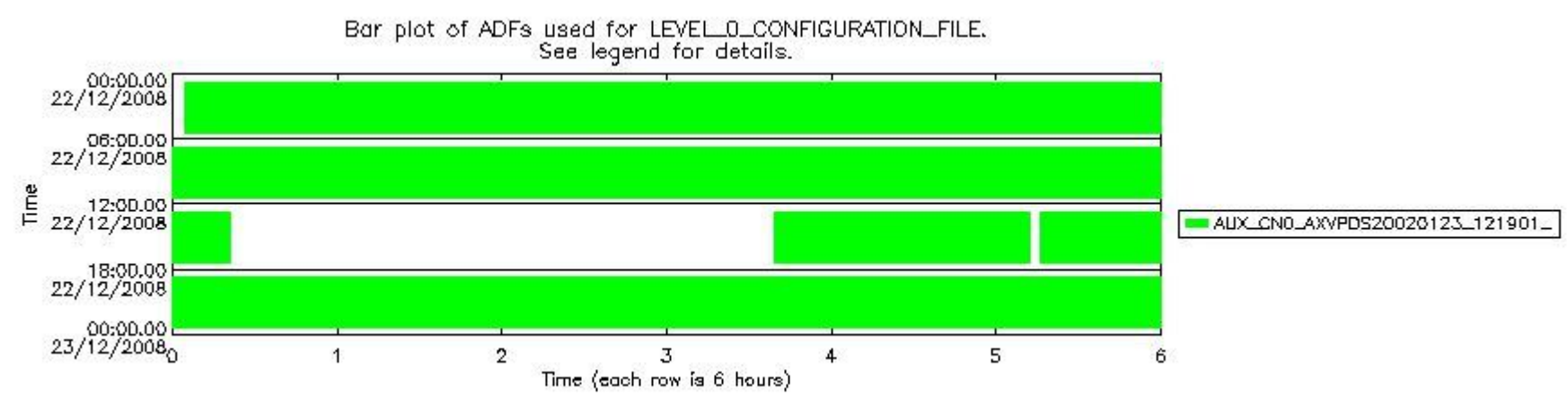
0.4 ADF monitoring

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

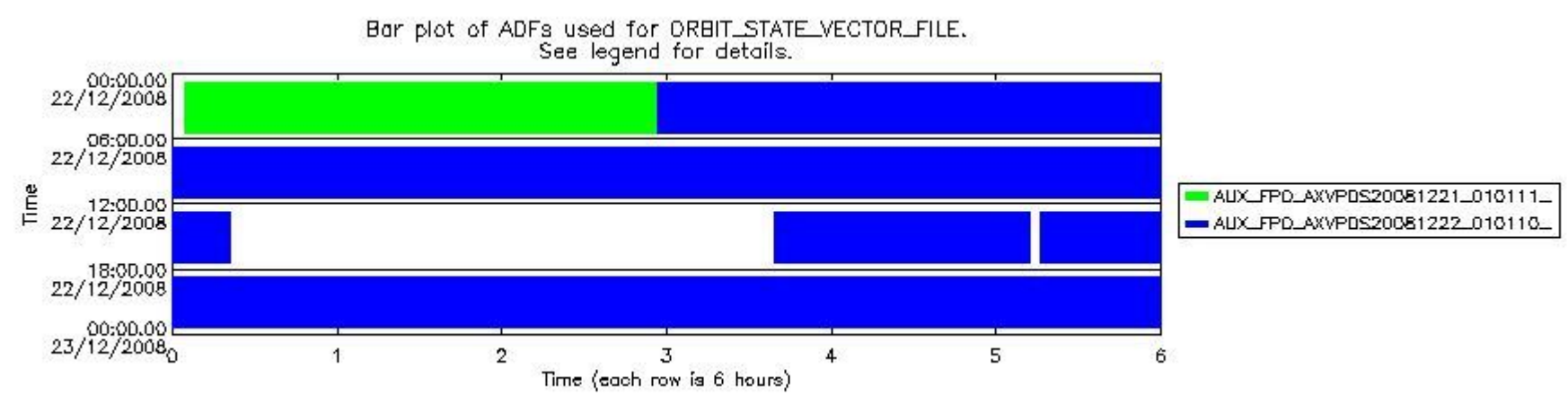
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

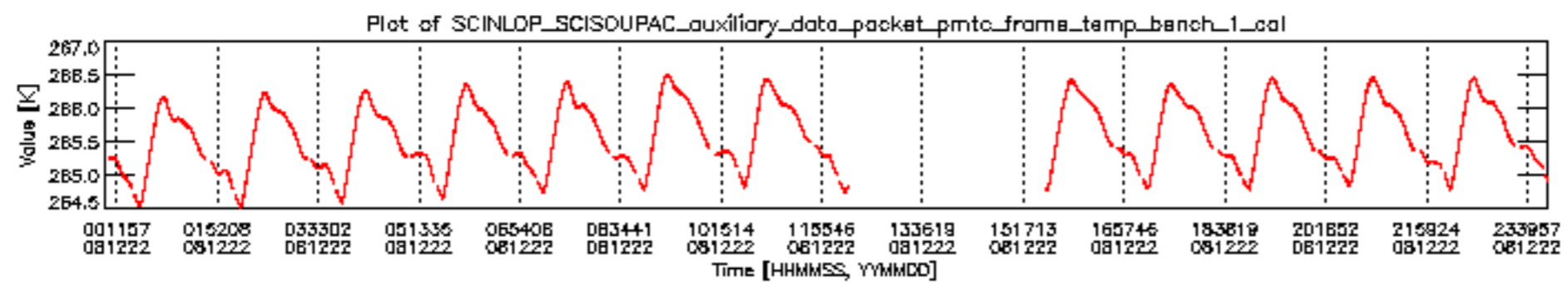
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20081221_010111_20081220_194131_20081230_210745
2	AUX_FPO_AXVPDS20081222_010110_20081221_190954_20081231_203608

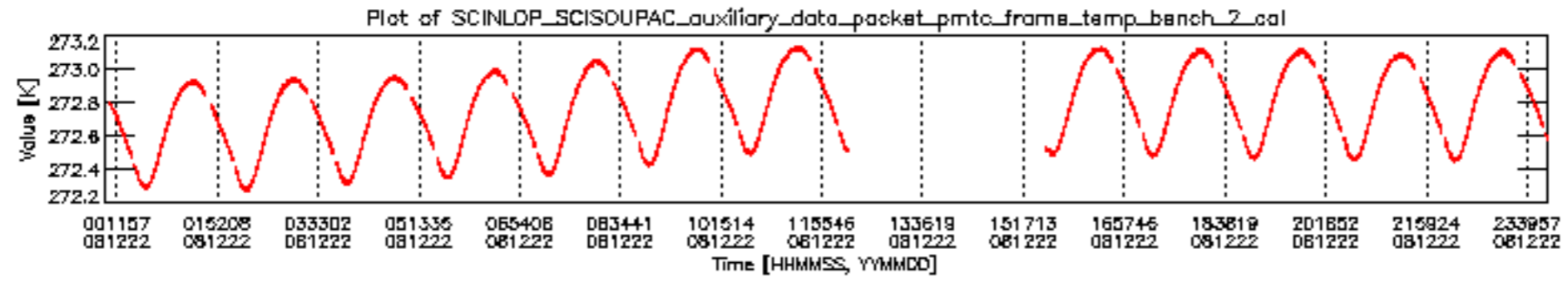


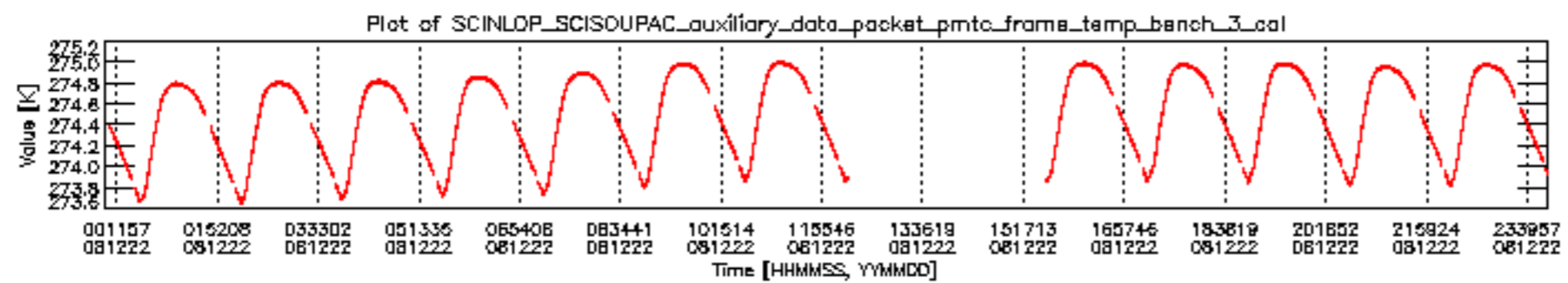
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081222_7.PNG

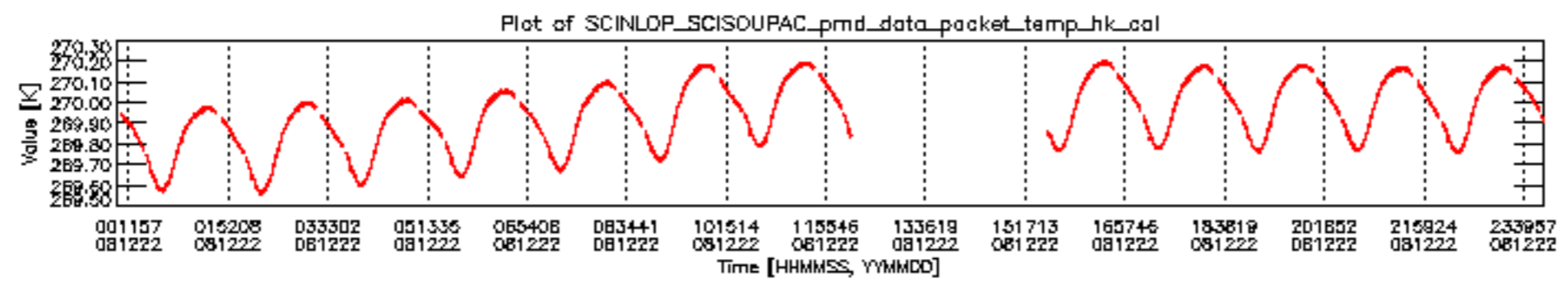


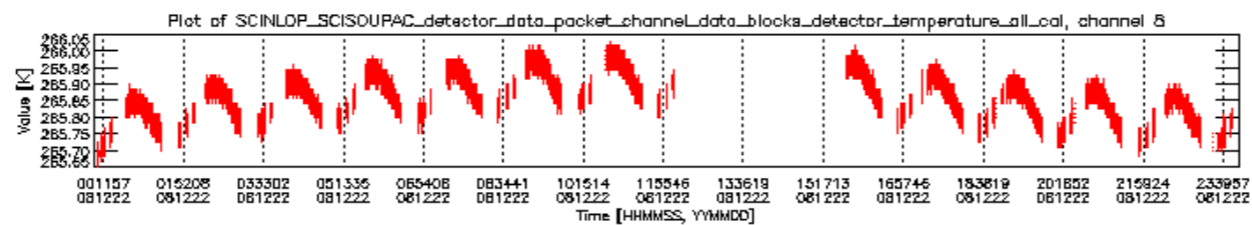
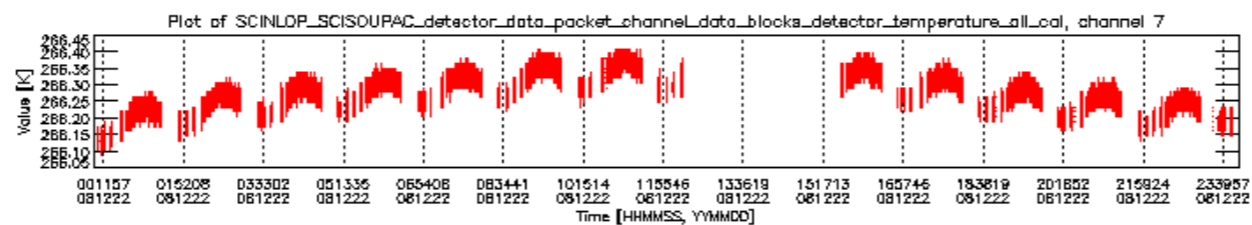
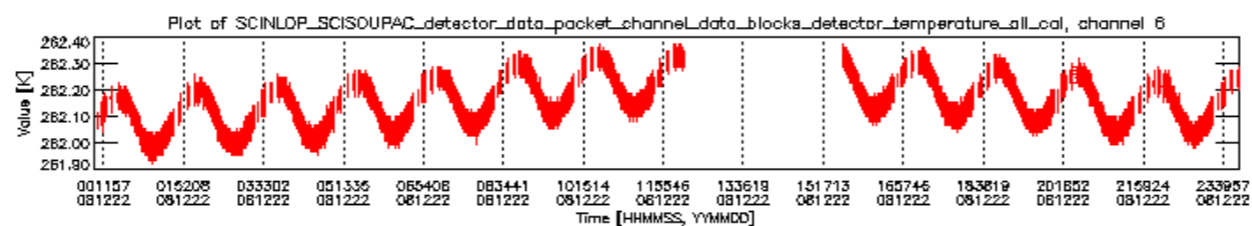
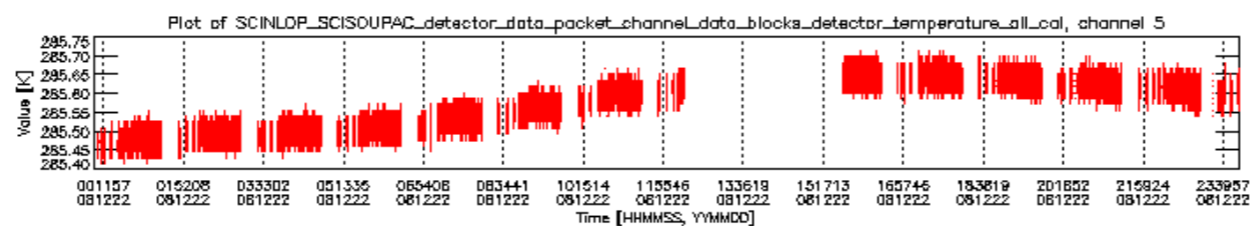
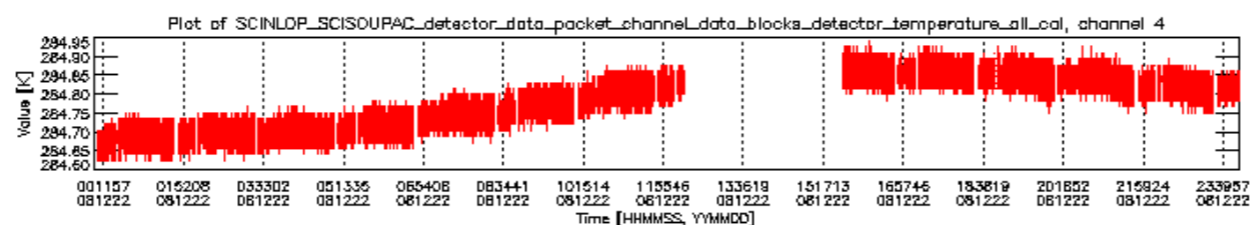
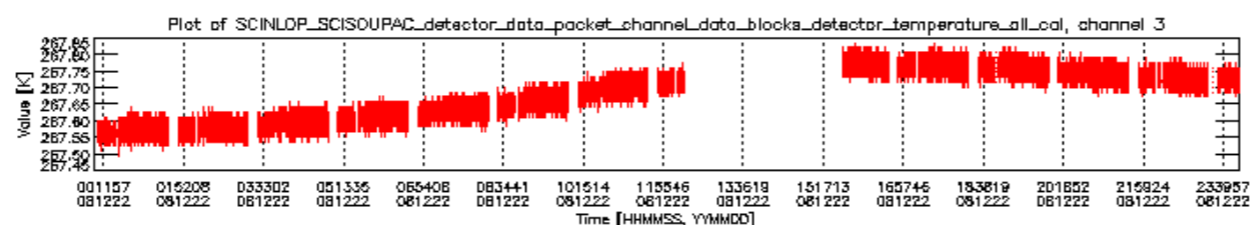
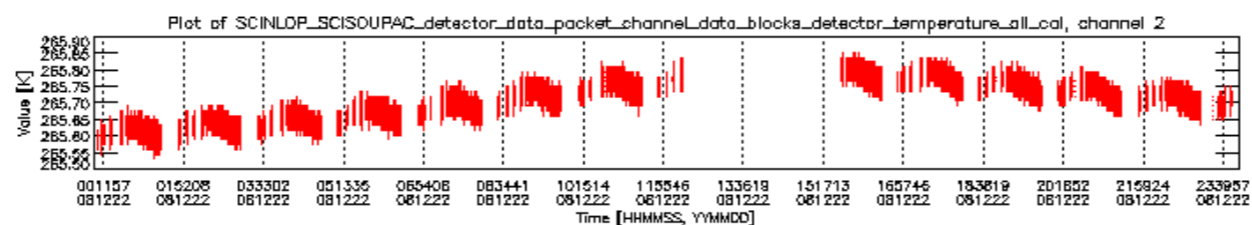
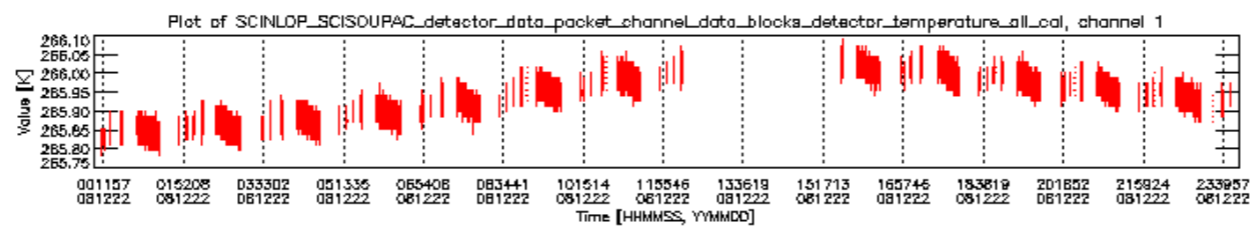
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081222_8.PNG

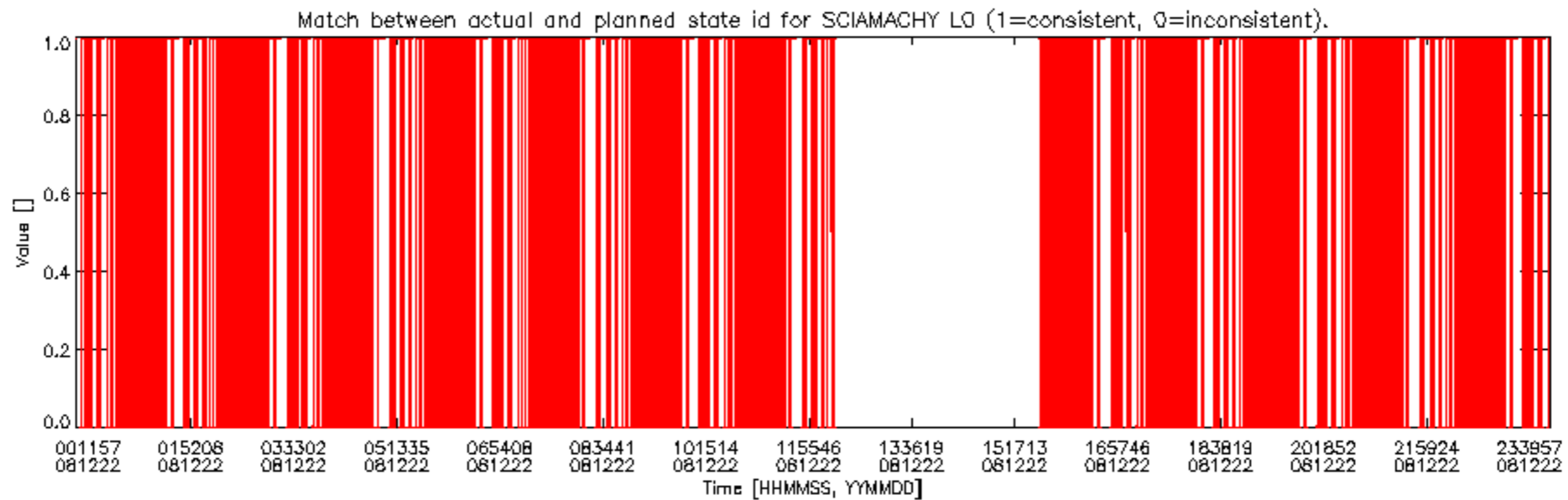
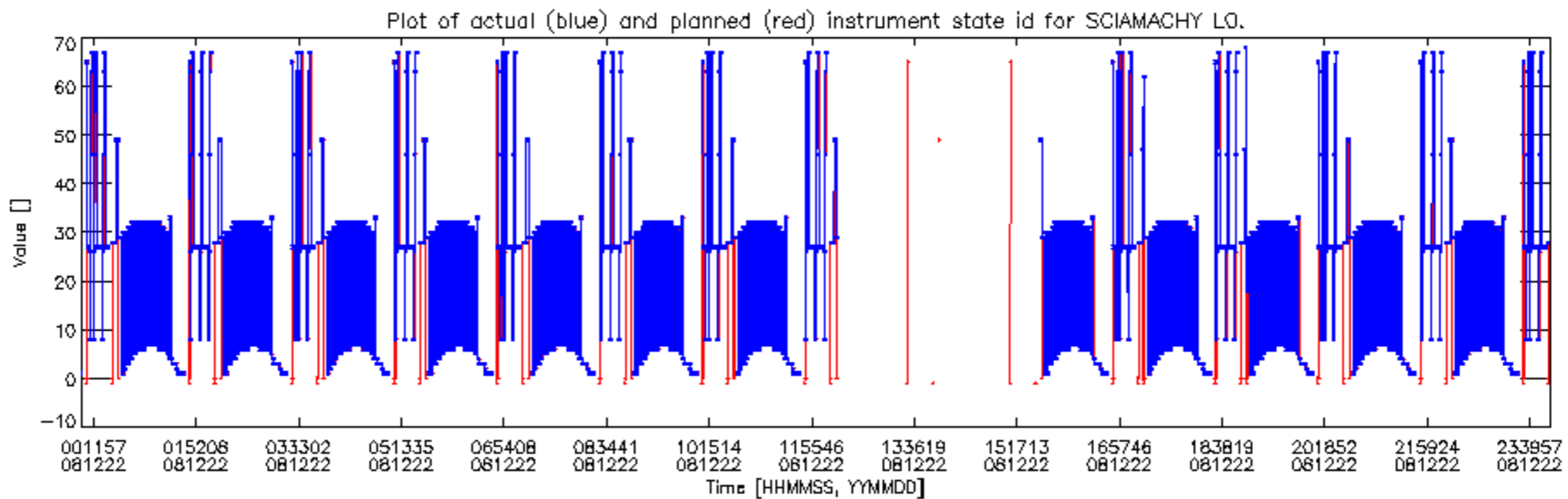




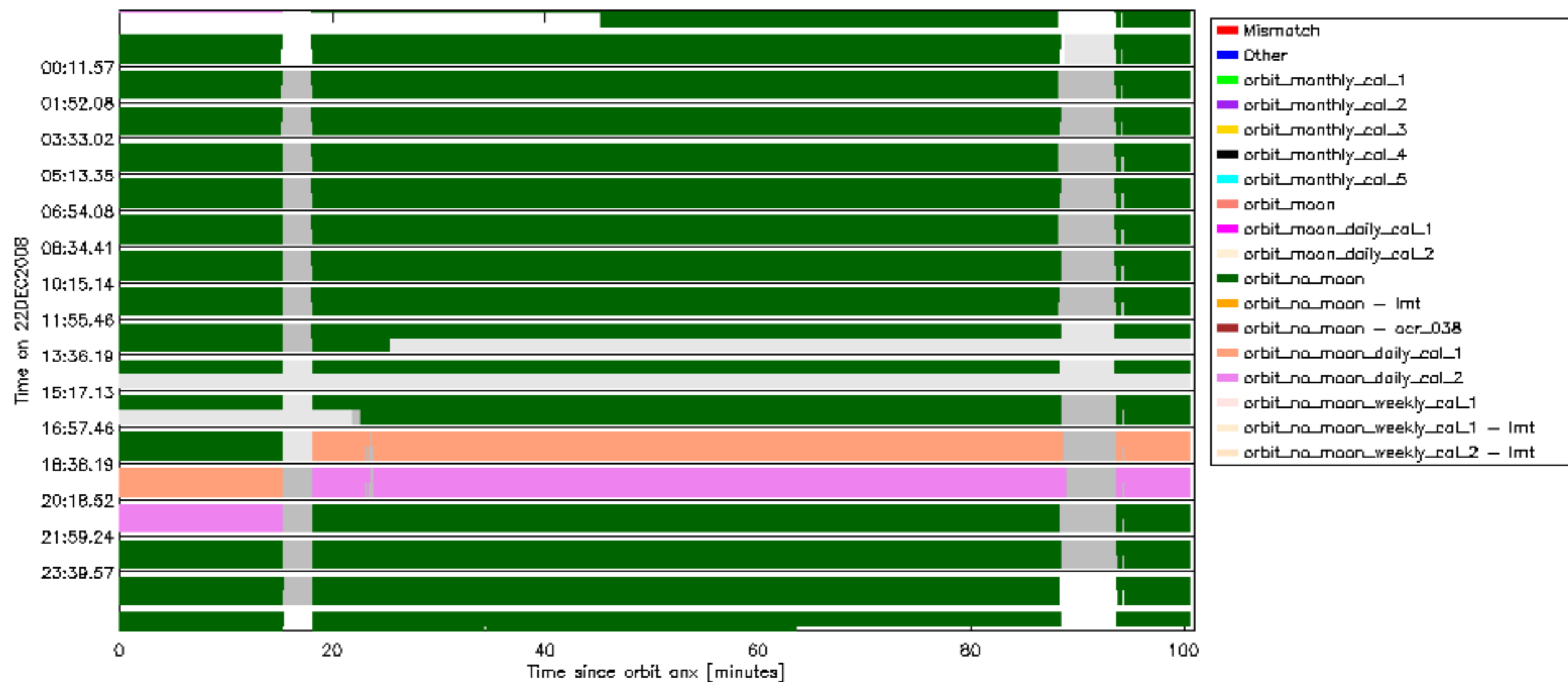


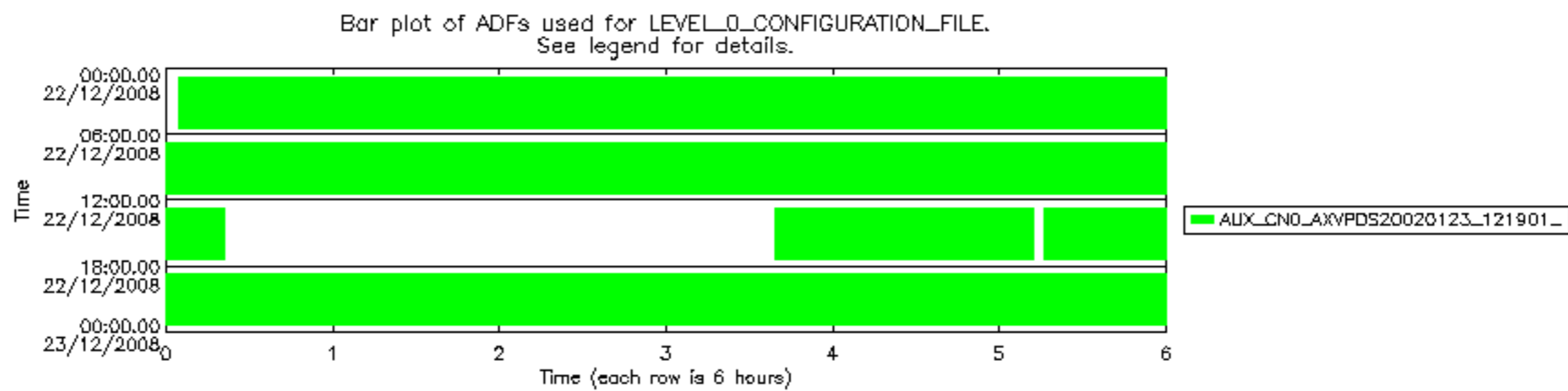






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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 The remaining colours indicate planned activities and/or special measurements.
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Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.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

