

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	15FEB2008 06:20:07
Data source version	KSPT_L0/4303-N
Processing scope for products	11FEB2008 00:00:00 to 12FEB2008 00:00:00
Start time of first product within scope	11FEB2008 00:02:19
Stop time of last product within scope	11FEB2008 23:16:09
Total number of level 0 products	16
Number of level 0 products with errors	0

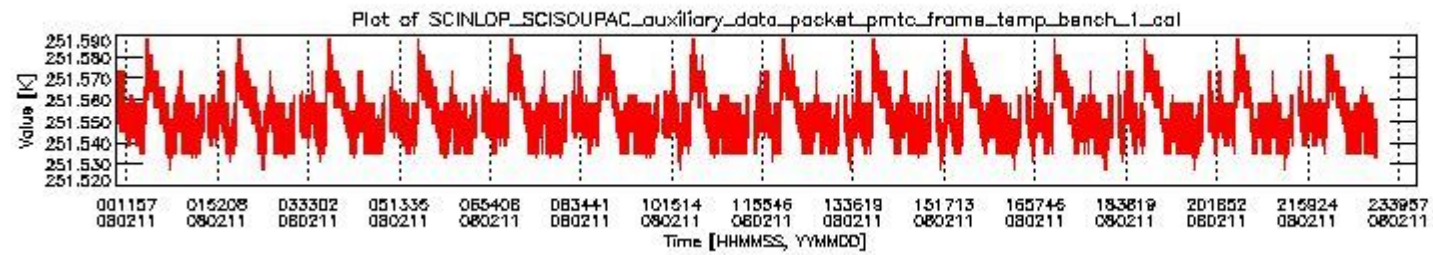
0.1.2 Summary per product

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

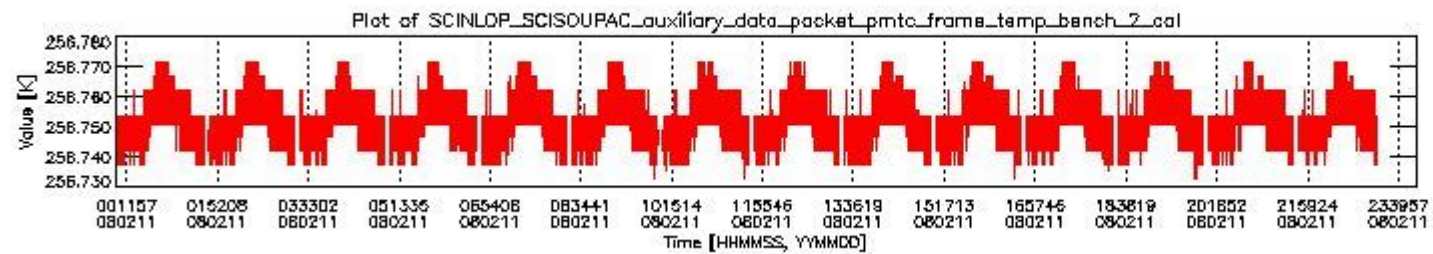
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080211_000219_000055932065_00488_31103_6117.N1	11FEB2008 00:02:19	11FEB2008 01:35:32	0	0	0	0	0
1	SCI_NL__OPNPDE20080211_014254_000043972065_00489_31104_6118.N1	11FEB2008 01:42:54	11FEB2008 02:56:11	0	0	0	0	0
2	SCI_NL__OPNPDE20080211_025611_000058552065_00490_31105_6119.N1	11FEB2008 02:56:11	11FEB2008 04:33:46	0	0	0	0	0
3	SCI_NL__OPNPDE20080211_043346_000060362065_00491_31106_6120.N1	11FEB2008 04:33:46	11FEB2008 06:14:22	0	0	0	0	0
4	SCI_NL__OPNPDK20080211_061313_000041132065_00492_31107_7362.N1	11FEB2008 06:13:13	11FEB2008 07:21:47	0	0	0	0	0
5	SCI_NL__OPNPDK20080211_072051_000062162065_00493_31108_7363.N1	11FEB2008 07:20:51	11FEB2008 09:04:26	0	0	0	0	0
6	SCI_NL__OPNPDK20080211_090318_000060482065_00494_31109_7364.N1	11FEB2008 09:03:18	11FEB2008 10:44:06	0	0	0	0	0
7	SCI_NL__OPNPDK20080211_104257_000060352065_00495_31110_7365.N1	11FEB2008 10:42:57	11FEB2008 12:23:33	0	0	0	0	0
8	SCI_NL__OPNPDK20080211_122224_000059802065_00496_31111_7366.N1	11FEB2008 12:22:24	11FEB2008 14:02:04	0	0	0	0	0
9	SCI_NL__OPNPDK20080211_140108_000057992065_00497_31112_7367.N1	11FEB2008 14:01:08	11FEB2008 15:37:47	0	0	0	0	0
10	SCI_NL__OPNPDK20080211_153529_000061202065_00498_31113_7368.N1	11FEB2008 15:35:29	11FEB2008 17:17:29	0	0	0	0	0
11	SCI_NL__OPNPDK20080211_171605_000059792065_00499_31114_7369.N1	11FEB2008 17:16:05	11FEB2008 18:55:43	0	0	0	0	0
12	SCI_NL__OPNPDK20080211_185448_000060352065_00500_31115_7370.N1	11FEB2008 18:54:48	11FEB2008 20:35:23	0	0	0	0	0
13	SCI_NL__OPNPDE20080211_203331_000041462065_00501_31116_6121.N1	11FEB2008 20:33:31	11FEB2008 21:42:37	0	0	0	0	0
14	SCI_NL__OPNPDK20080211_215000_000014472065_00501_31116_7371.N1	11FEB2008 21:50:00	11FEB2008 22:14:07	0	0	0	0	0
15	SCI_NL__OPNPDE20080211_221407_000037222066_00001_31117_6122.N1	11FEB2008 22:14:07	11FEB2008 23:16:09	0	0	0	0	0

0.2 Product Quality Indicators

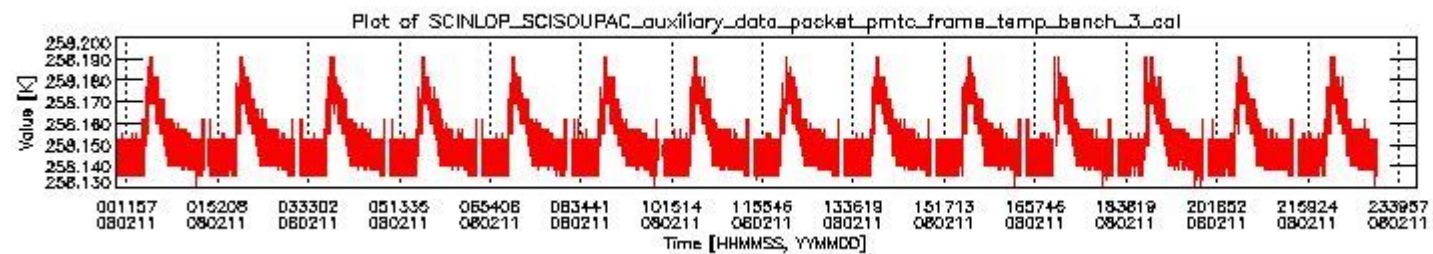
This section shows information about product quality, currently temperatures.



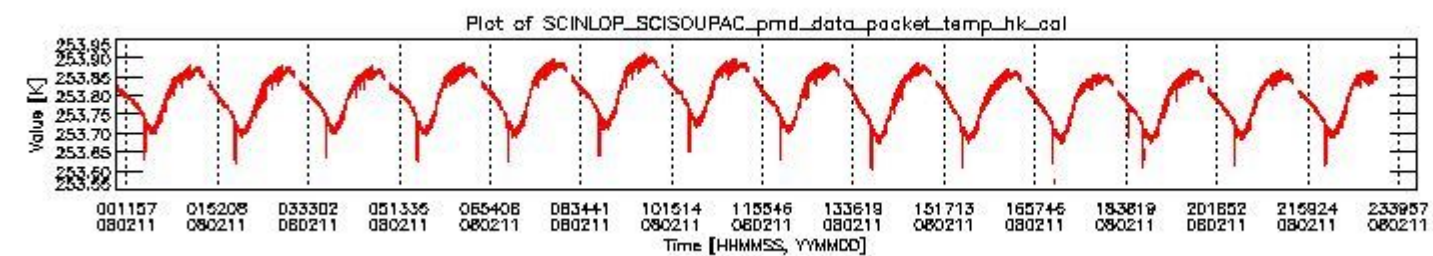
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080211_0.PNG



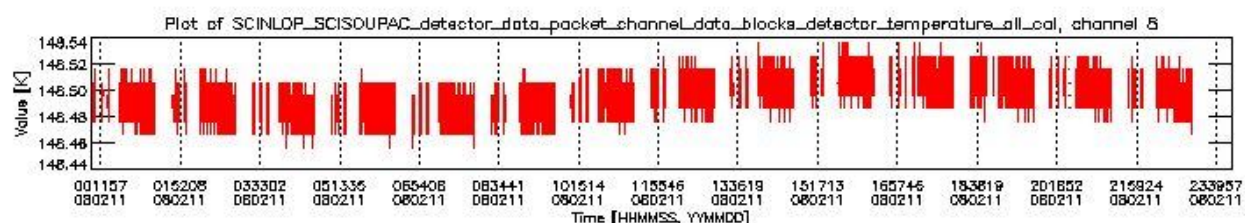
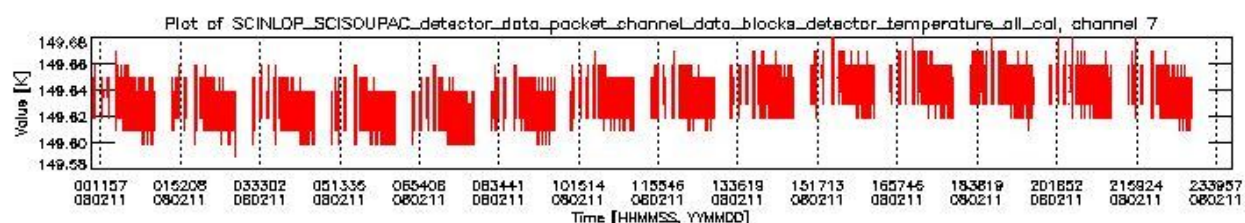
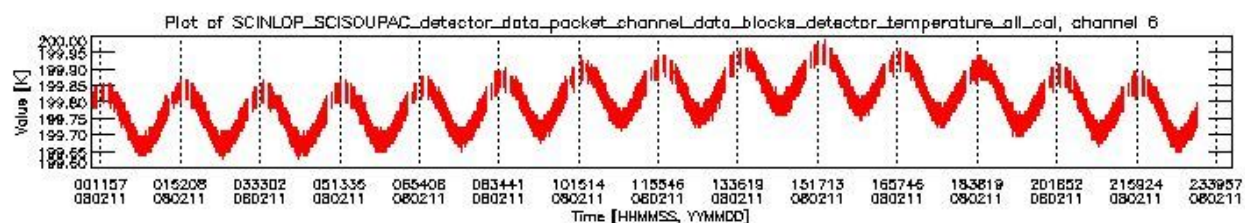
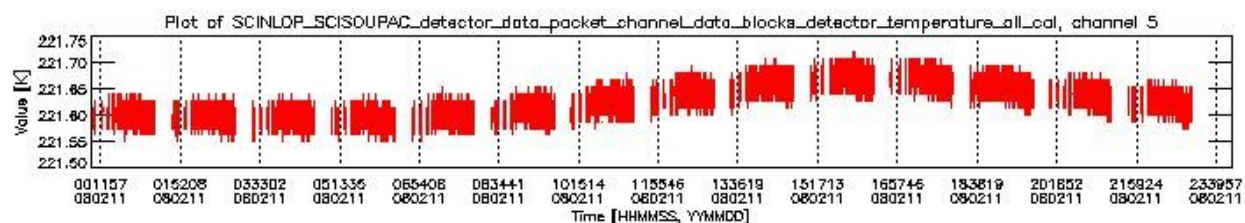
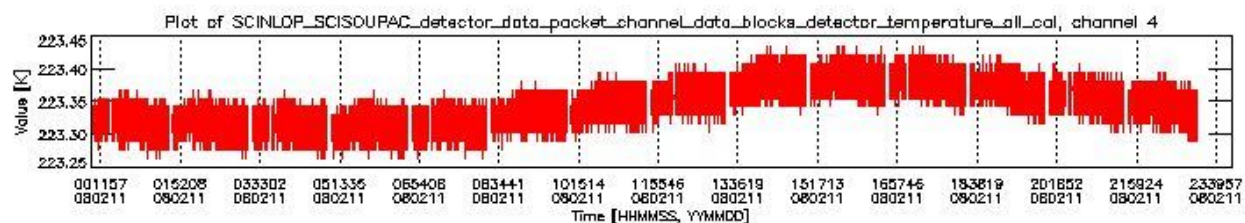
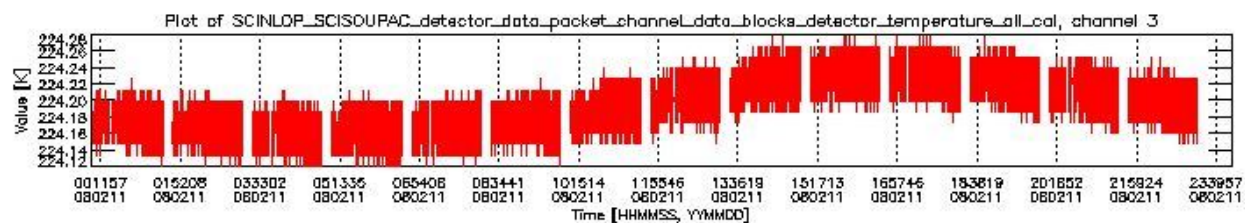
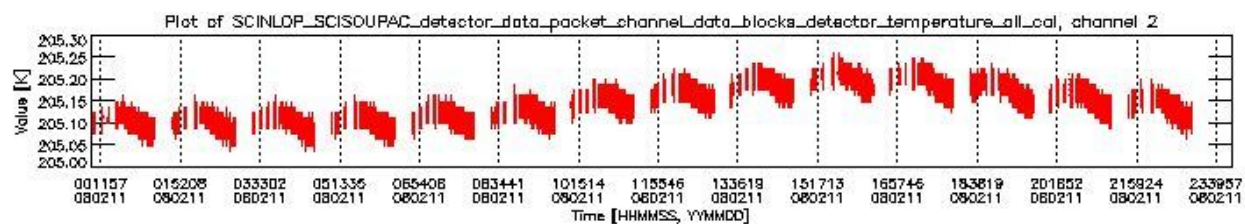
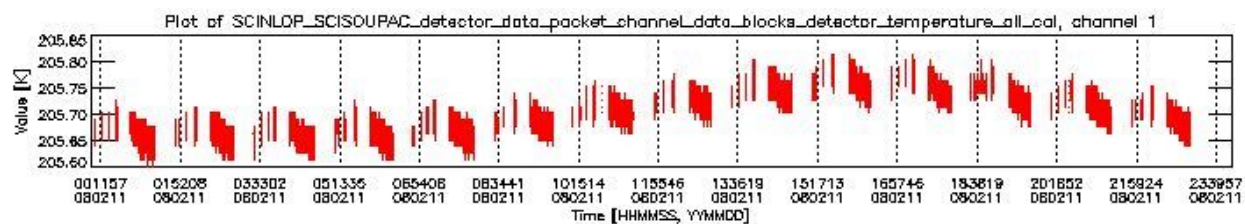
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080211_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20080211_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20080211_3.PNG

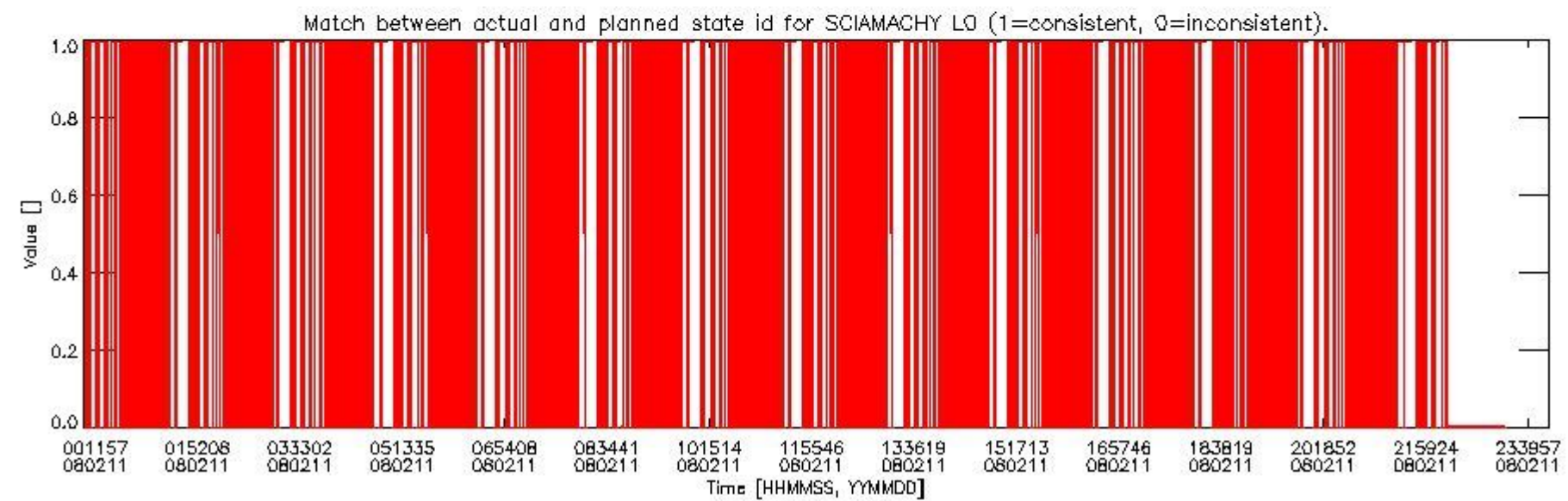
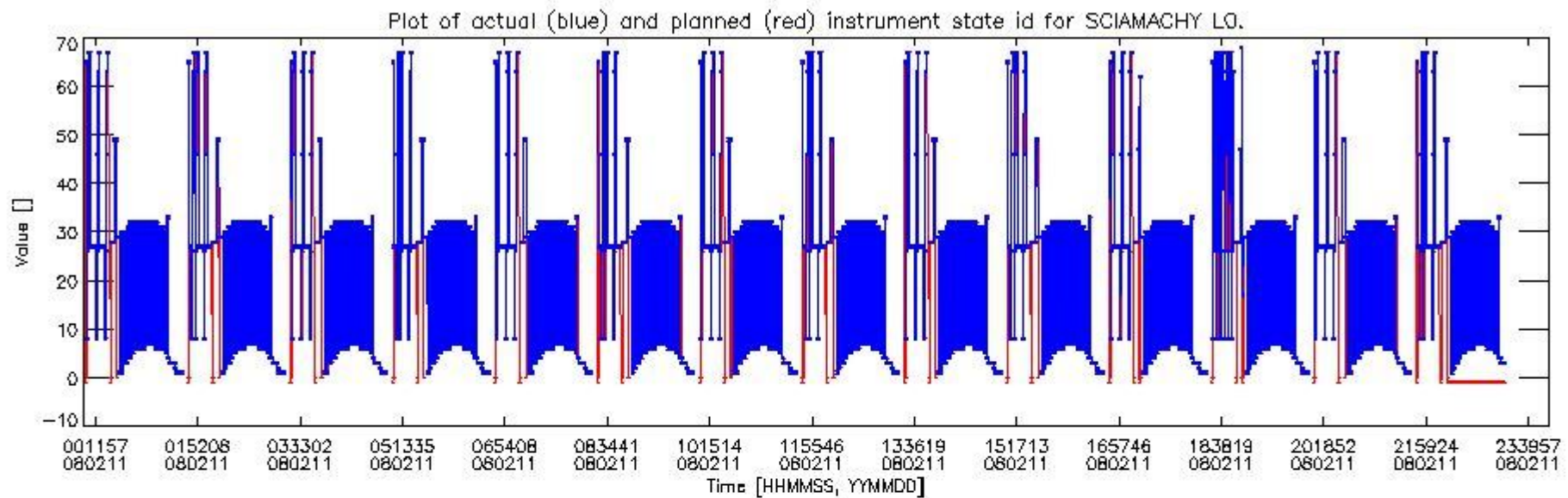


0.3 State monitoring

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: **52638**

#	Actual time	Actual value	Planned time	Planned value
0	11FEB2008 00:02:19.383794	65	11FEB2008 00:02:19.383794	0
1	11FEB2008 00:02:20.008776	65	11FEB2008 00:02:20.008776	0
2	11FEB2008 00:02:20.508793	65	11FEB2008 00:02:20.508793	0
3	11FEB2008 00:02:21.008770	65	11FEB2008 00:02:21.008770	0
4	11FEB2008 00:02:21.508788	65	11FEB2008 00:02:21.508788	0
5	11FEB2008 00:02:22.008805	65	11FEB2008 00:02:22.008805	0
6	11FEB2008 00:02:22.508782	65	11FEB2008 00:02:22.508782	0
7	11FEB2008 00:02:23.008800	65	11FEB2008 00:02:23.008800	0
8	11FEB2008 00:02:23.508777	65	11FEB2008 00:02:23.508777	0
9	11FEB2008 00:02:24.008794	65	11FEB2008 00:02:24.008794	0
10	11FEB2008 00:02:24.383767	65	11FEB2008 00:02:24.383767	0
11	11FEB2008 00:02:24.508772	65	11FEB2008 00:02:24.508772	0
12	11FEB2008 00:02:25.008789	65	11FEB2008 00:02:25.008789	0
13	11FEB2008 00:02:25.508806	65	11FEB2008 00:02:25.508806	0
14	11FEB2008 00:02:26.008784	65	11FEB2008 00:02:26.008784	0
15	11FEB2008 00:02:26.508801	65	11FEB2008 00:02:26.508801	0
16	11FEB2008 00:03:03.145496	8	11FEB2008 00:03:03.145496	0
17	11FEB2008 00:03:04.270495	8	11FEB2008 00:03:04.270495	0
18	11FEB2008 00:03:05.270530	8	11FEB2008 00:03:05.270530	0
19	11FEB2008 00:03:06.270525	8	11FEB2008 00:03:06.270525	0
...

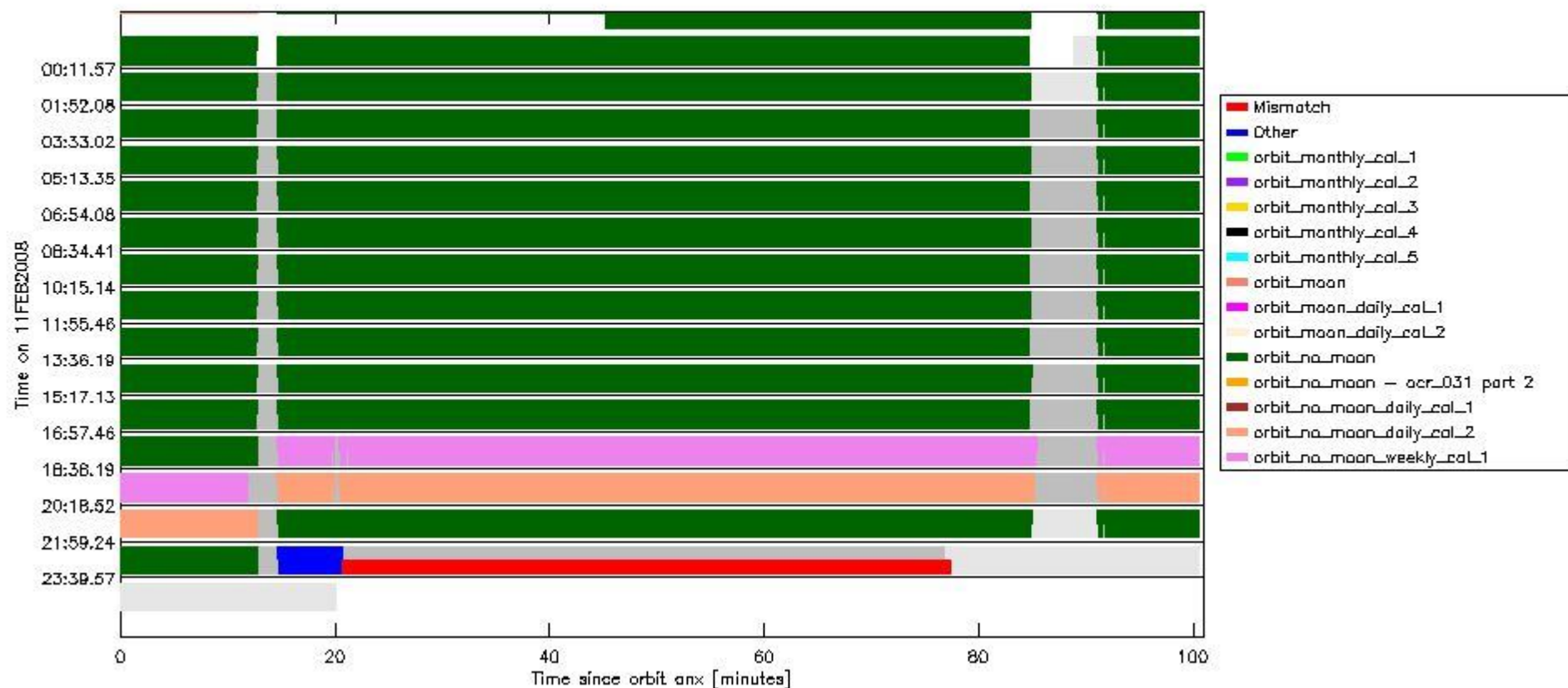


sciamachy_daily_report_level0_KSPT_L0_4303_N_20080211_5.PNG

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 11FEB2008.
 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_20080211_6.PNG

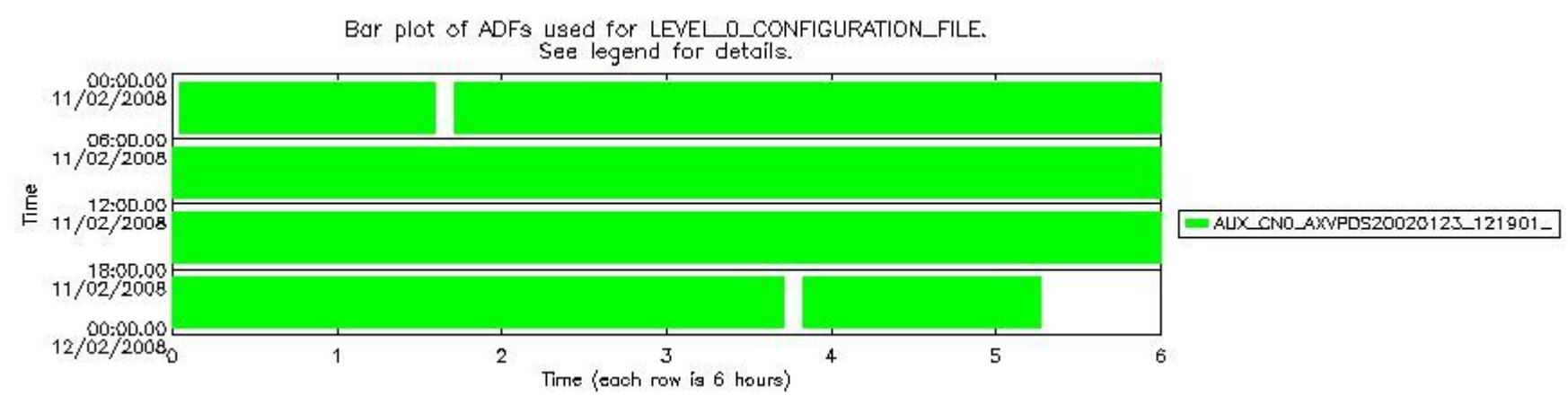
0.4 ADF monitoring

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

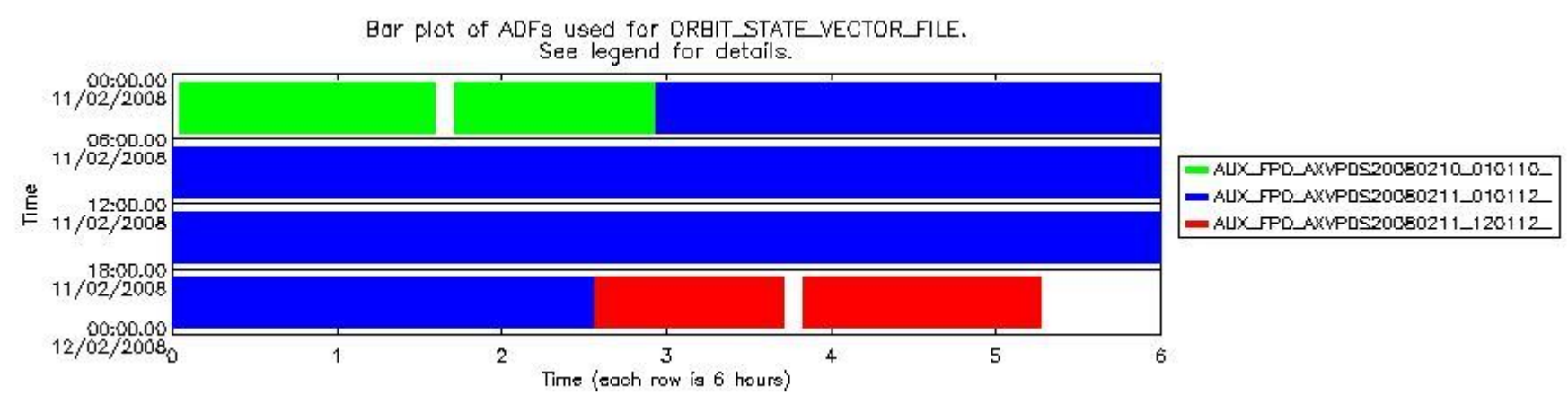
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

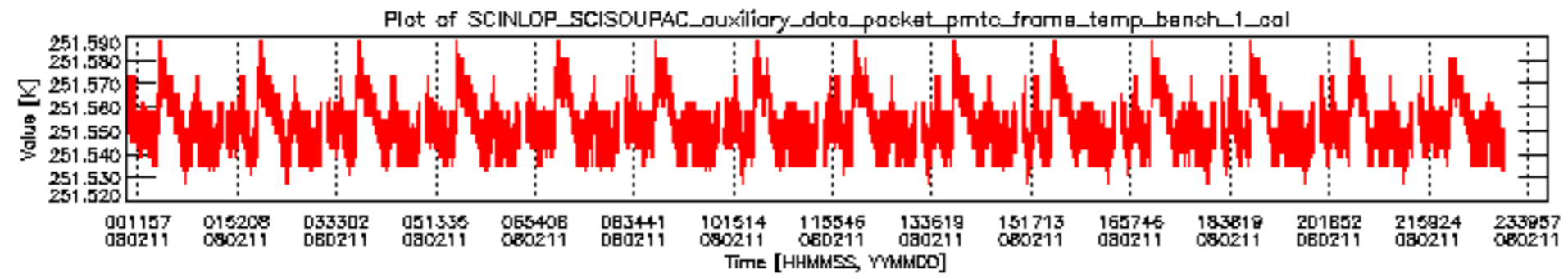
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20080210_010110_20080209_194131_20080219_210743
2	AUX_FPO_AXVPDS20080211_010112_20080210_190954_20080220_203606
3	AUX_FPO_AXVPDS20080211_120112_20080211_083441_20080220_235718

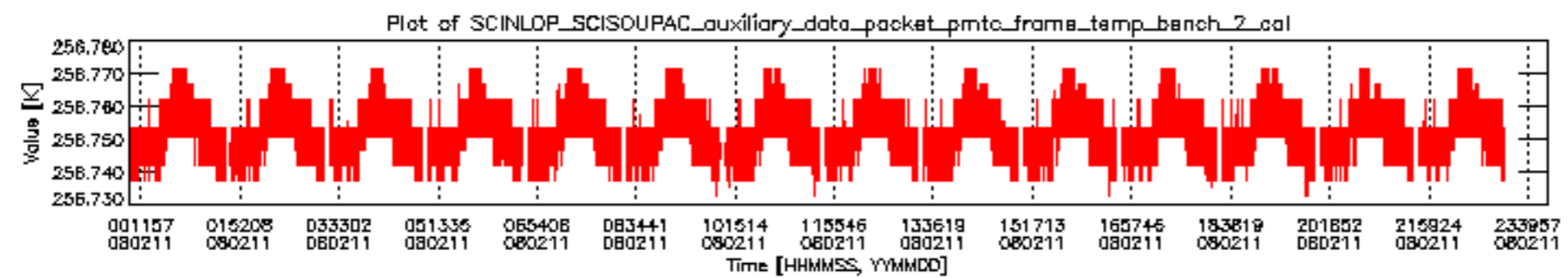


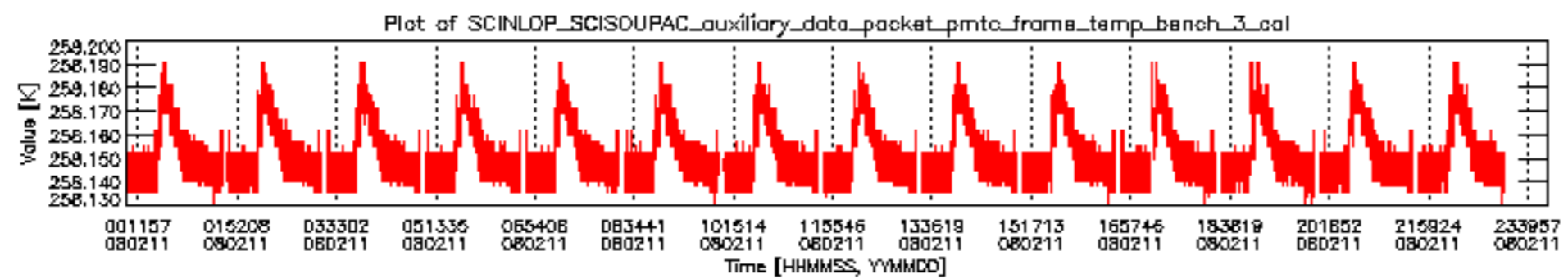
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080211_7.PNG

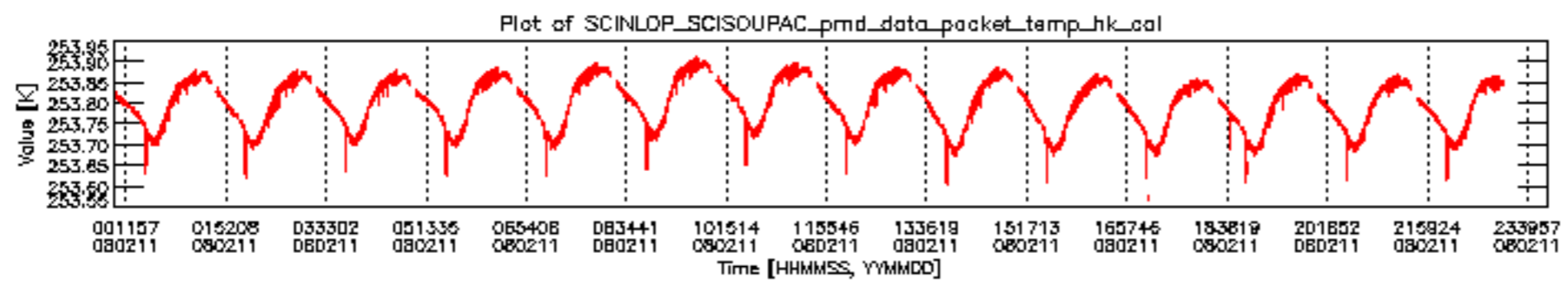


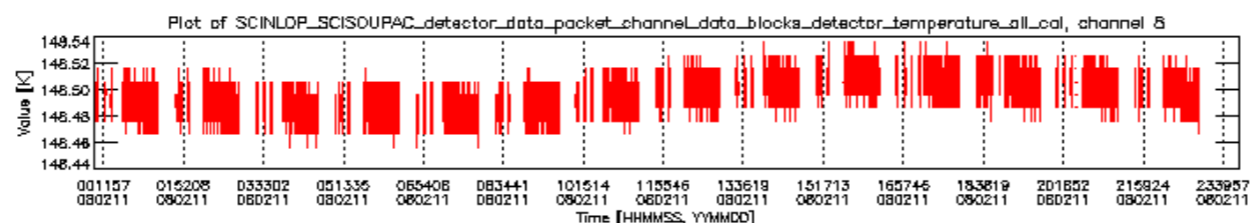
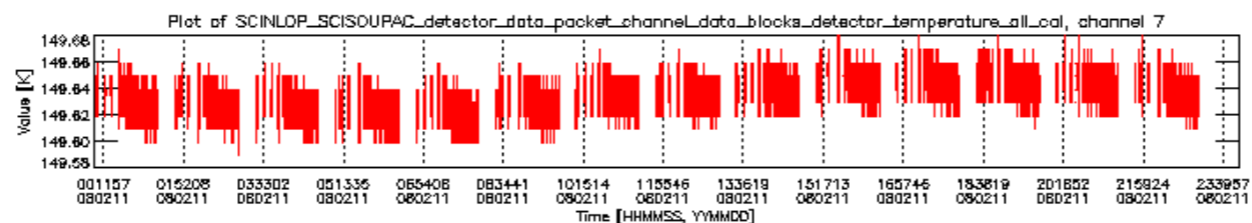
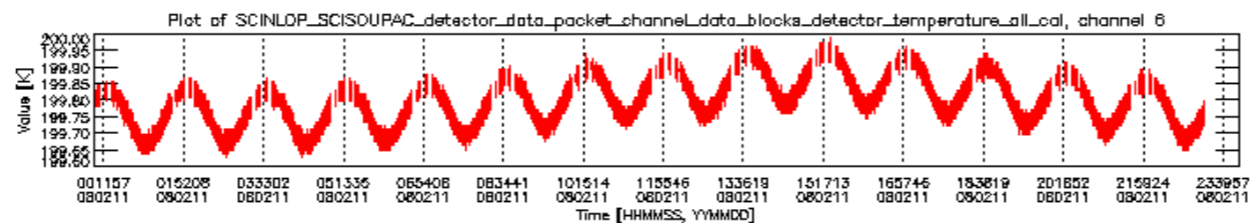
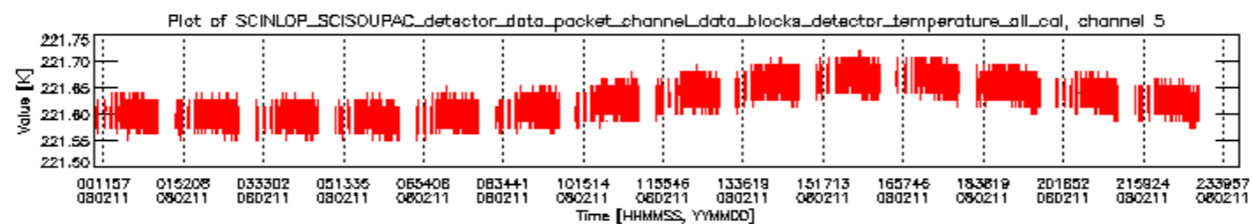
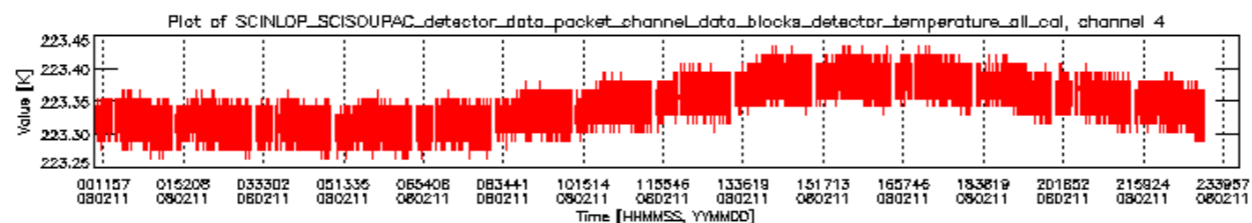
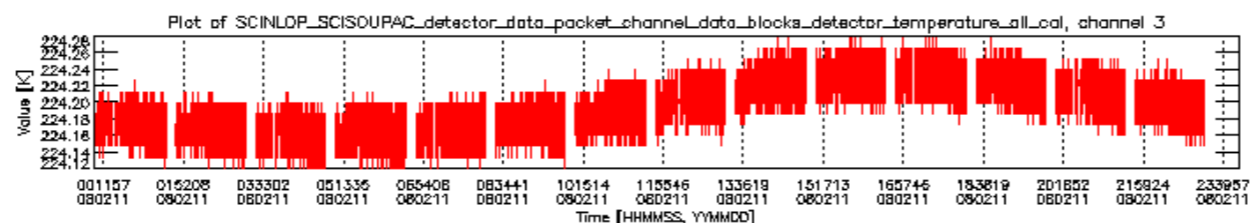
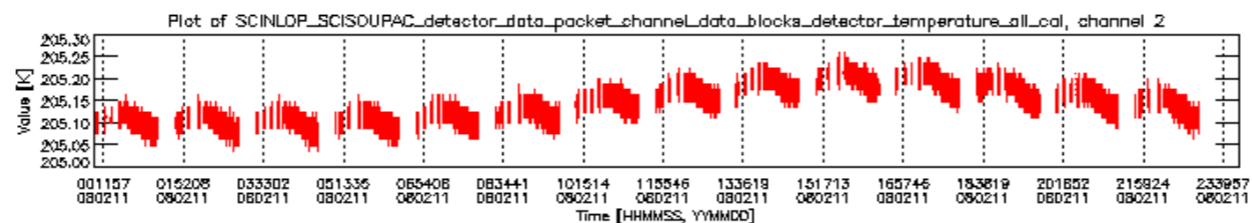
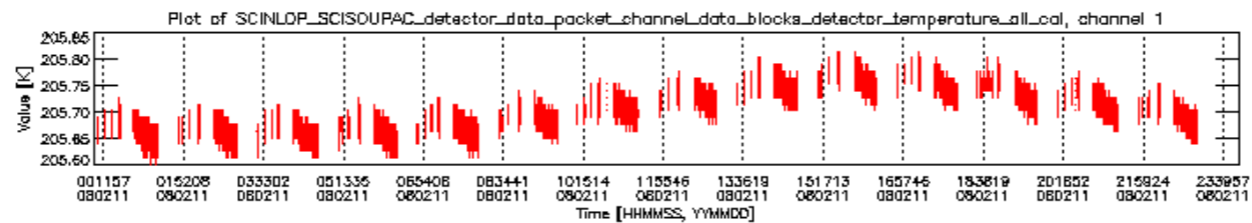
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080211_8.PNG

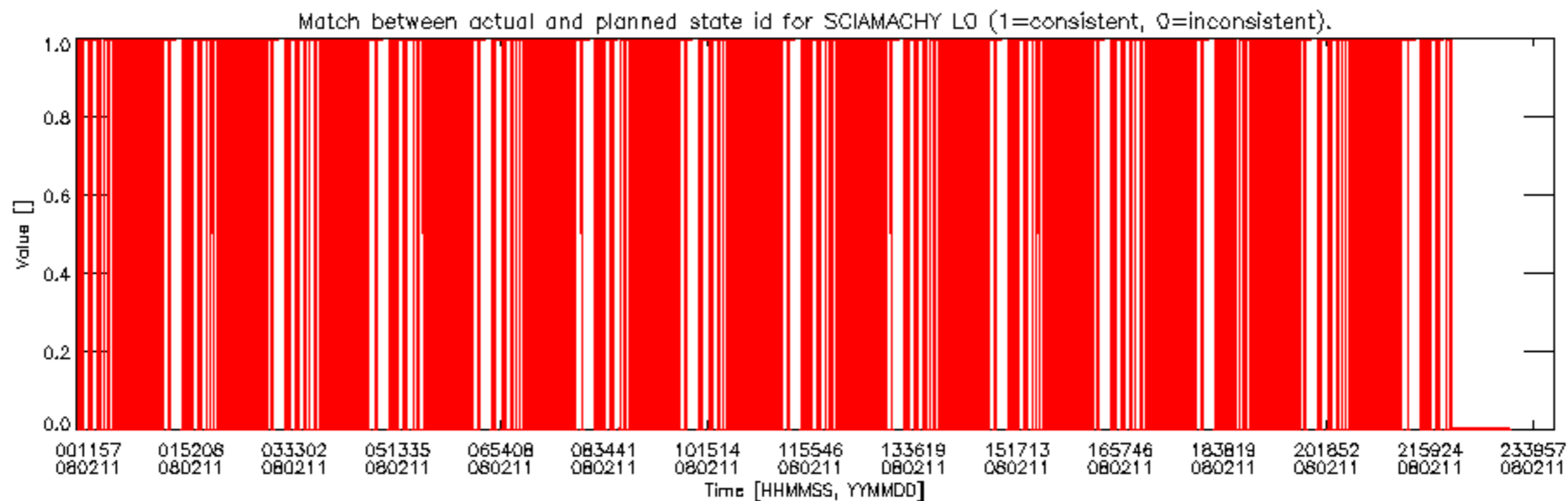
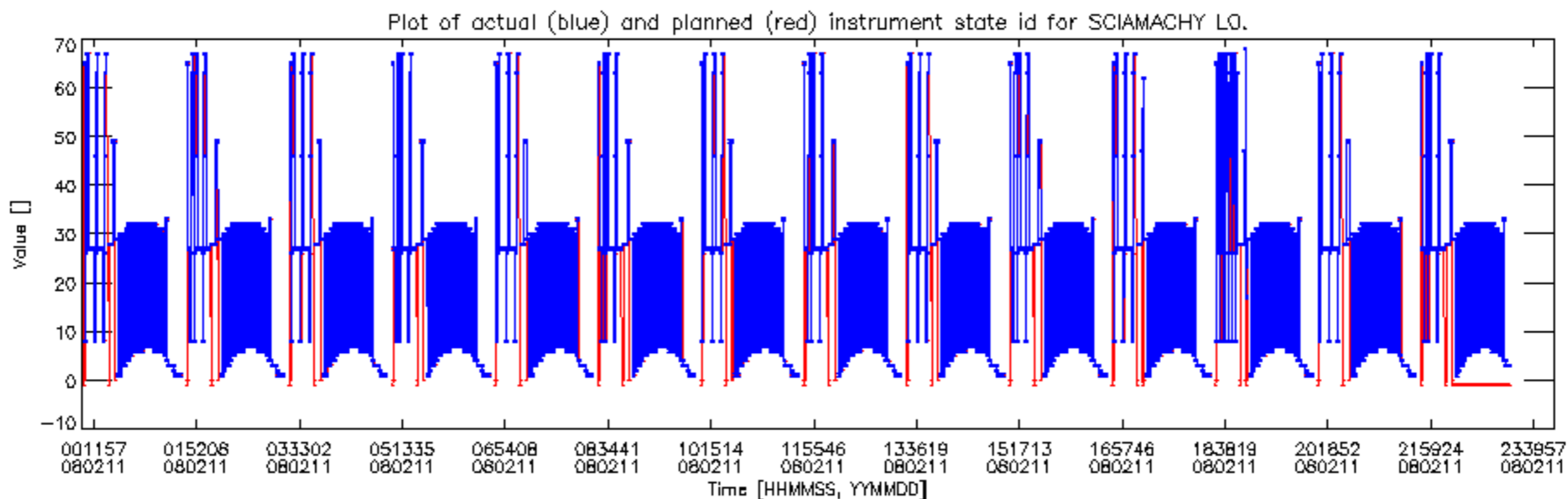




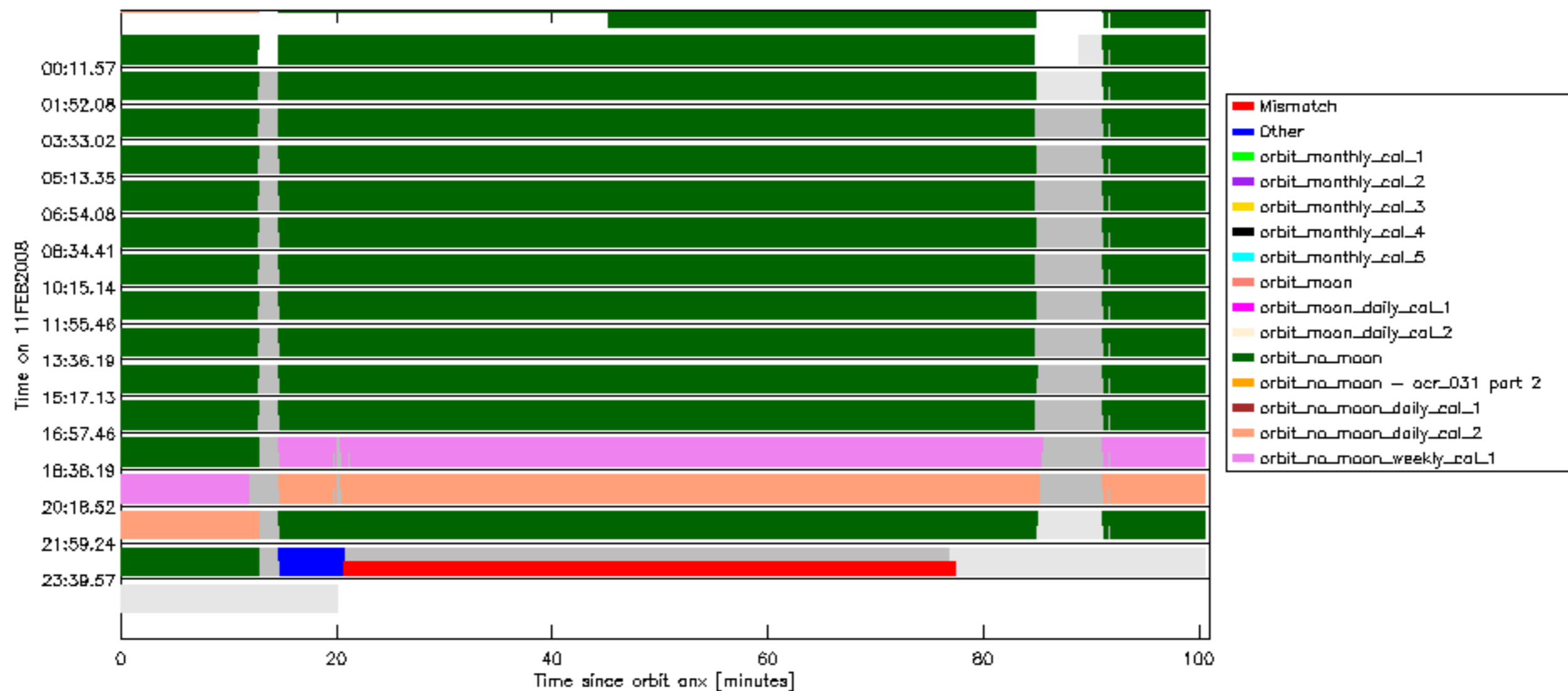


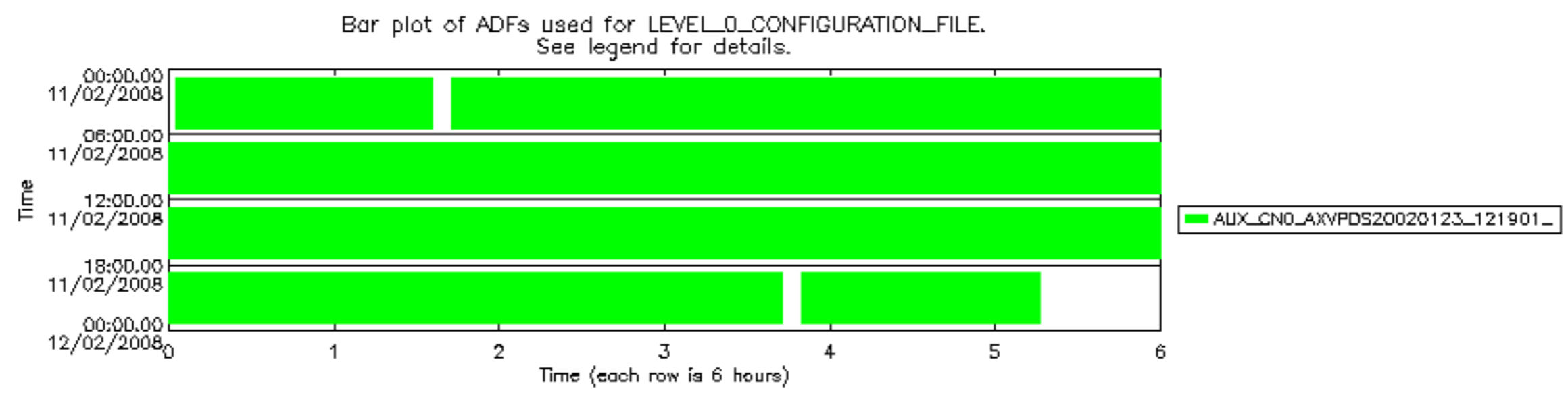






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
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Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.
See legend for details.

