

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	v1.4 20100407
Time of report generation	07JAN2012 03:10:42
Data source version	KSPT_L0/4504-N
Processing scope for products	31DEC2011 00:00:00 to 01JAN2012 00:00:00
Start time of first product within scope	31DEC2011 00:47:48
Stop time of last product within scope	01JAN2012 00:05:29
Total number of Level 0 products	15
Number of Level 0 products with errors	0

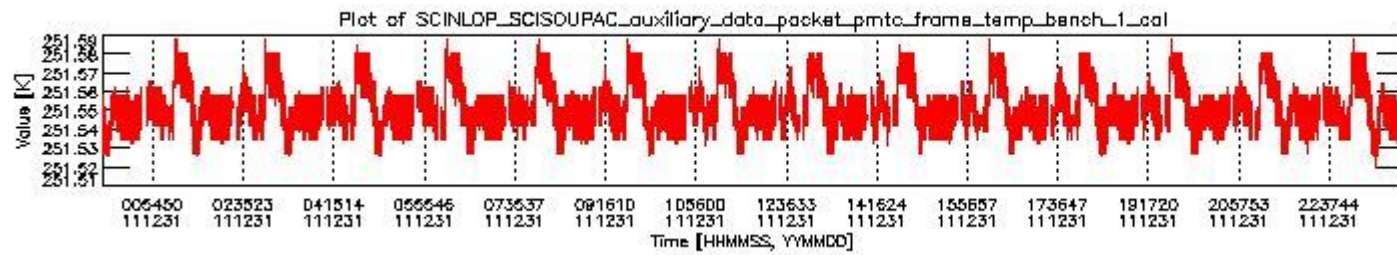
0.1.2 Summary per product

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

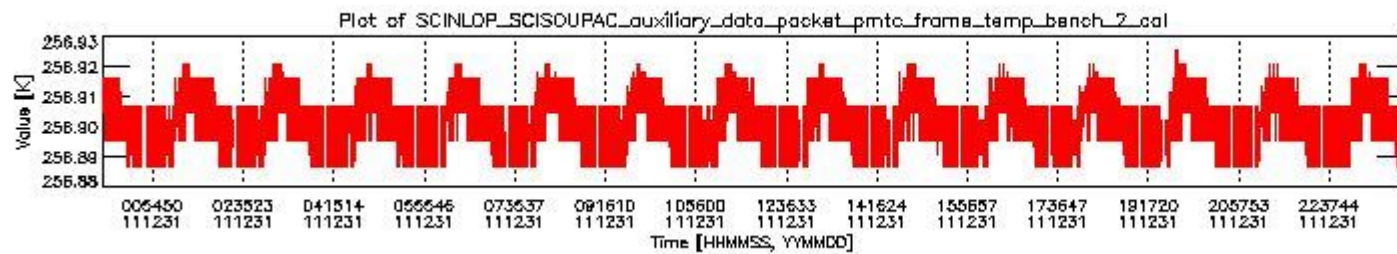
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20111231_004748_000055753110_00131_51438_4607.N1	31DEC2011 00:47:48	31DEC2011 02:20:43	0	0	0	0	0
1	SCI_NL__OPNPDE20111231_021935_000044523110_00132_51439_4608.N1	31DEC2011 02:19:35	31DEC2011 03:33:47	0	0	0	0	0
2	SCI_NL__OPNPDE20111231_033238_000062593110_00133_51440_4609.N1	31DEC2011 03:32:38	31DEC2011 05:16:58	0	0	0	0	0
3	SCI_NL__OPNPDE20111231_051549_000060283110_00134_51441_4610.N1	31DEC2011 05:15:49	31DEC2011 06:56:17	0	0	0	0	0
4	SCI_NL__OPNPDK20111231_065617_000040363110_00135_51442_6800.N1	31DEC2011 06:56:17	31DEC2011 08:03:33	0	0	0	0	0
5	SCI_NL__OPNPDK20111231_080239_000061373110_00136_51443_6801.N1	31DEC2011 08:02:39	31DEC2011 09:44:55	0	0	0	0	0
6	SCI_NL__OPNPDK20111231_094252_000060143110_00137_51444_6802.N1	31DEC2011 09:42:52	31DEC2011 11:23:06	0	0	0	0	0
7	SCI_NL__OPNPDK20111231_112118_000060683110_00138_51445_6803.N1	31DEC2011 11:21:18	31DEC2011 13:02:26	0	0	0	0	0
8	SCI_NL__OPNPDK20111231_130132_000058223110_00139_51446_6804.N1	31DEC2011 13:01:32	31DEC2011 14:38:33	0	0	0	0	0
9	SCI_NL__OPNPDK20111231_143833_000060143110_00140_51447_6805.N1	31DEC2011 14:38:33	31DEC2011 16:18:47	0	0	0	0	0
10	SCI_NL__OPNPDK20111231_161752_000058513110_00141_51448_6806.N1	31DEC2011 16:17:52	31DEC2011 17:55:23	0	0	0	0	0
11	SCI_NL__OPNPDK20111231_175523_000057383110_00142_51449_6807.N1	31DEC2011 17:55:23	31DEC2011 19:31:01	0	0	0	0	0
12	SCI_NL__OPNPDK20111231_193014_000061053110_00143_51450_6808.N1	31DEC2011 19:30:14	31DEC2011 21:11:59	0	0	0	0	0
13	SCI_NL__OPNPDE20111231_211551_000041503110_00144_51451_4611.N1	31DEC2011 21:15:51	31DEC2011 22:25:01	0	0	0	0	0
14	SCI_NL__OPNPDE20111231_222501_000060283110_00144_51451_4612.N1	31DEC2011 22:25:01	01JAN2012 00:05:29	0	0	0	0	0

0.2 Product Quality Indicators

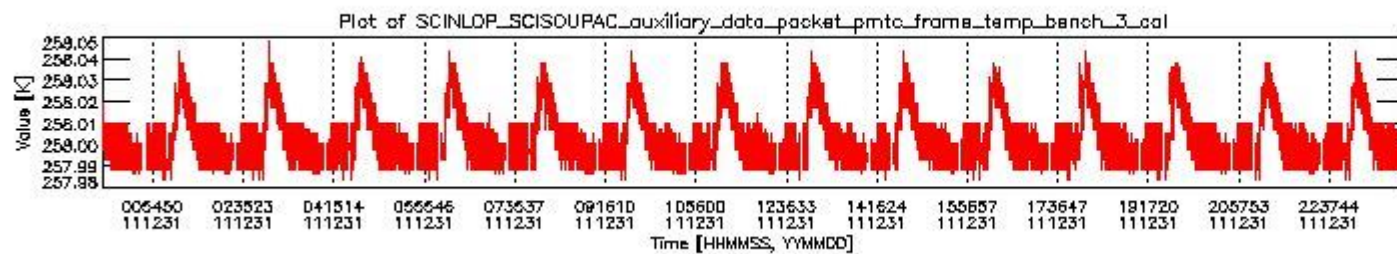
This section shows information about product quality, currently temperatures.



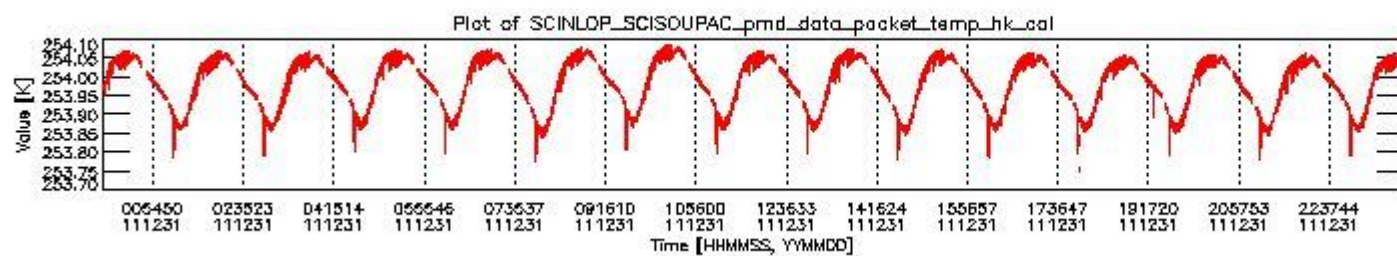
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111231_0.PNG



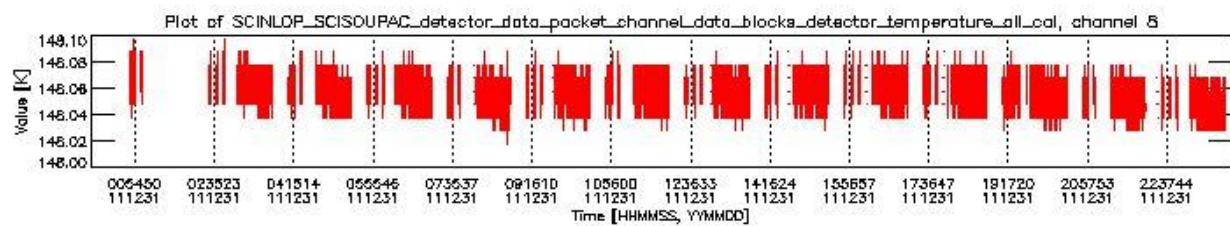
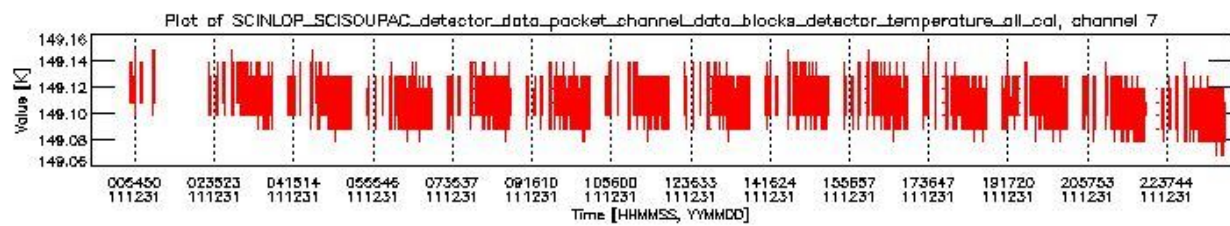
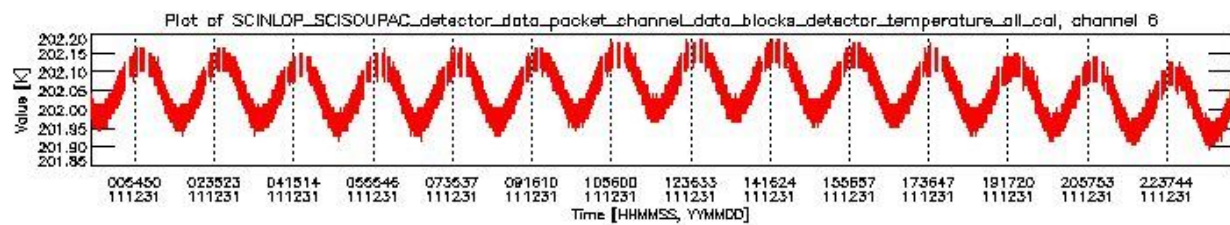
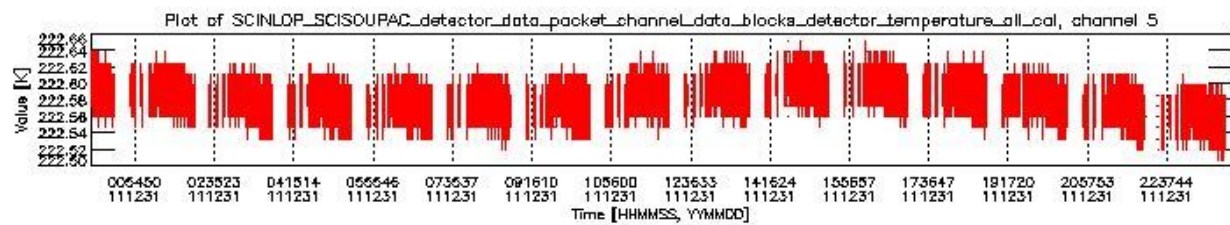
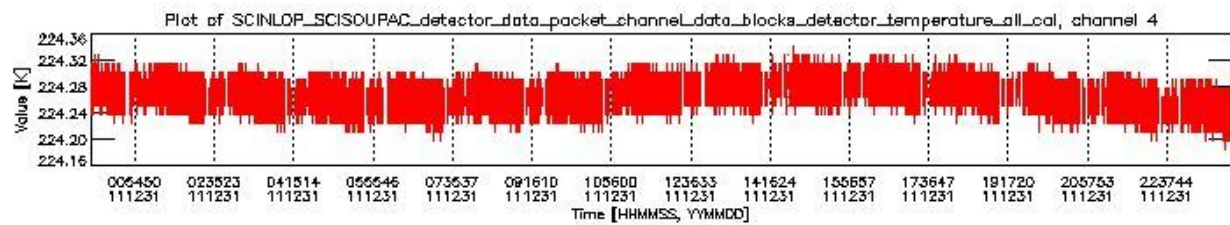
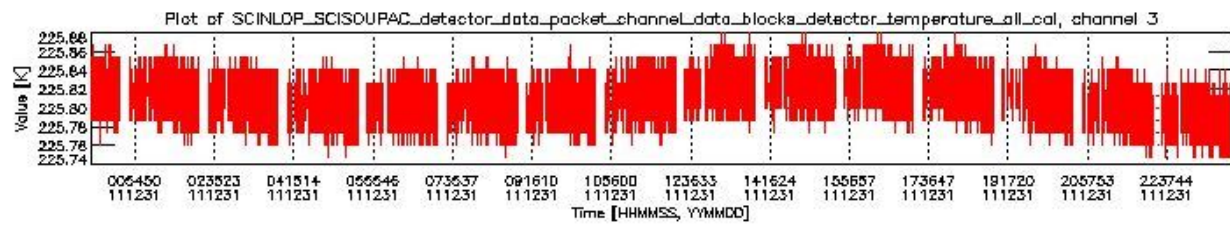
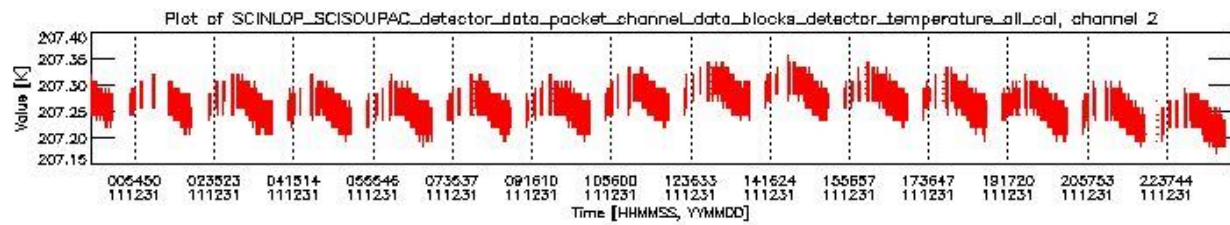
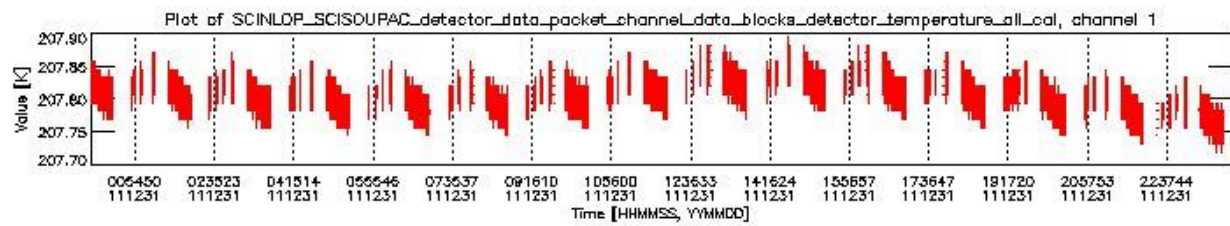
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111231_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20111231_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20111231_3.PNG

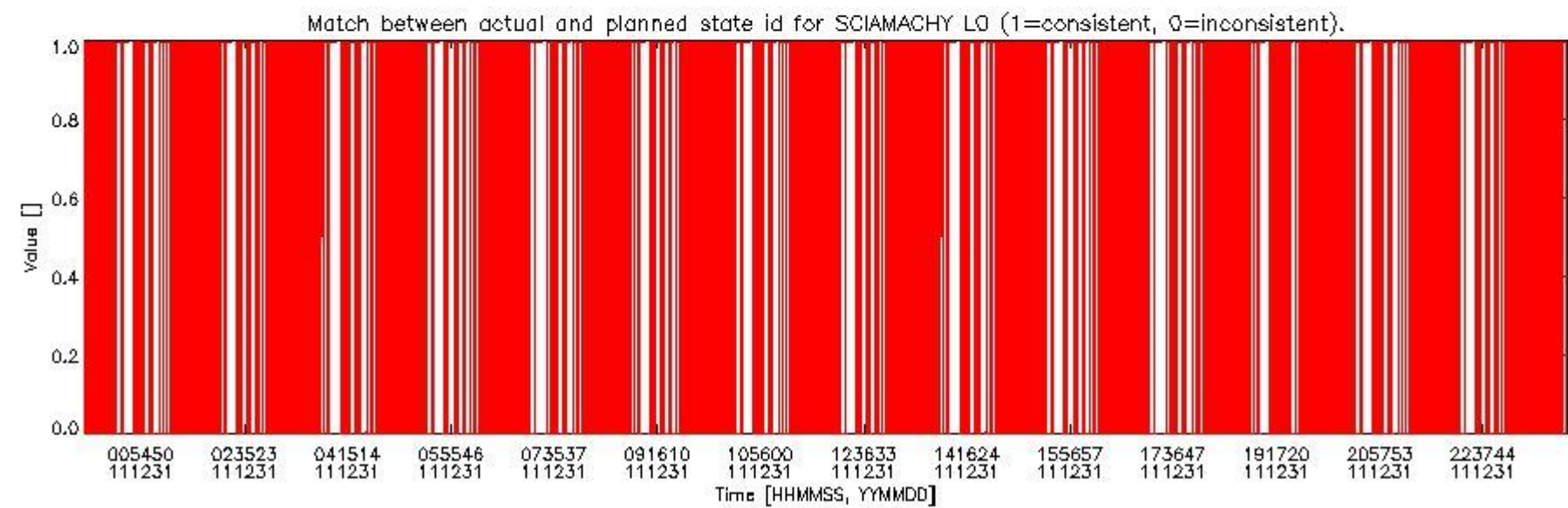
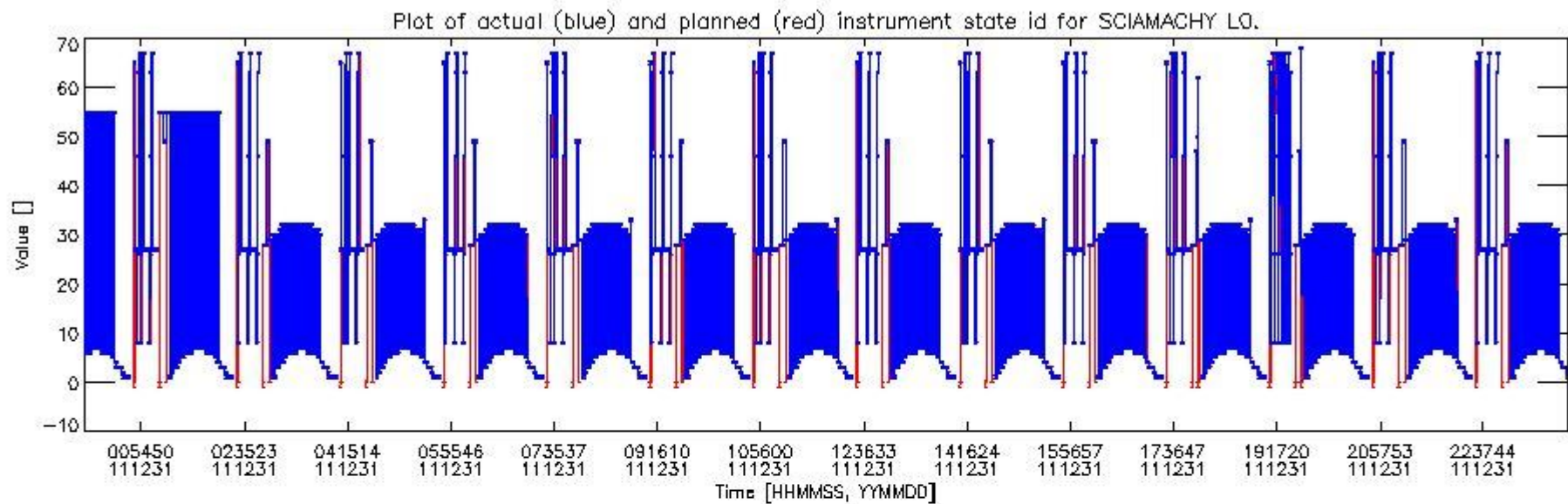


0.3 State monitoring

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: **43853**

#	Actual time	Actual value	Planned time	Planned value
0	31DEC2011 00:00:15.060403	6	31DEC2011 00:00:15.060403	55
1	31DEC2011 00:00:15.435403	6	31DEC2011 00:00:15.435403	55
2	31DEC2011 00:00:15.685403	6	31DEC2011 00:00:15.685403	55
3	31DEC2011 00:00:15.935403	6	31DEC2011 00:00:15.935403	55
4	31DEC2011 00:00:16.185403	6	31DEC2011 00:00:16.185403	55
5	31DEC2011 00:00:16.435403	6	31DEC2011 00:00:16.435403	55
6	31DEC2011 00:00:16.685403	6	31DEC2011 00:00:16.685403	55
7	31DEC2011 00:00:16.935403	6	31DEC2011 00:00:16.935403	55
8	31DEC2011 00:00:17.185403	6	31DEC2011 00:00:17.185403	55
9	31DEC2011 00:00:17.435403	6	31DEC2011 00:00:17.435403	55
10	31DEC2011 00:00:17.685403	6	31DEC2011 00:00:17.685403	55
11	31DEC2011 00:00:17.935403	6	31DEC2011 00:00:17.935403	55
12	31DEC2011 00:00:18.185403	6	31DEC2011 00:00:18.185403	55
13	31DEC2011 00:00:18.435403	6	31DEC2011 00:00:18.435403	55
14	31DEC2011 00:00:18.685403	6	31DEC2011 00:00:18.685403	55
15	31DEC2011 00:00:18.935403	6	31DEC2011 00:00:18.935403	55
16	31DEC2011 00:00:19.185403	6	31DEC2011 00:00:19.185403	55
17	31DEC2011 00:00:19.435403	6	31DEC2011 00:00:19.435403	55
18	31DEC2011 00:00:19.685403	6	31DEC2011 00:00:19.685403	55
19	31DEC2011 00:00:19.935403	6	31DEC2011 00:00:19.935403	55

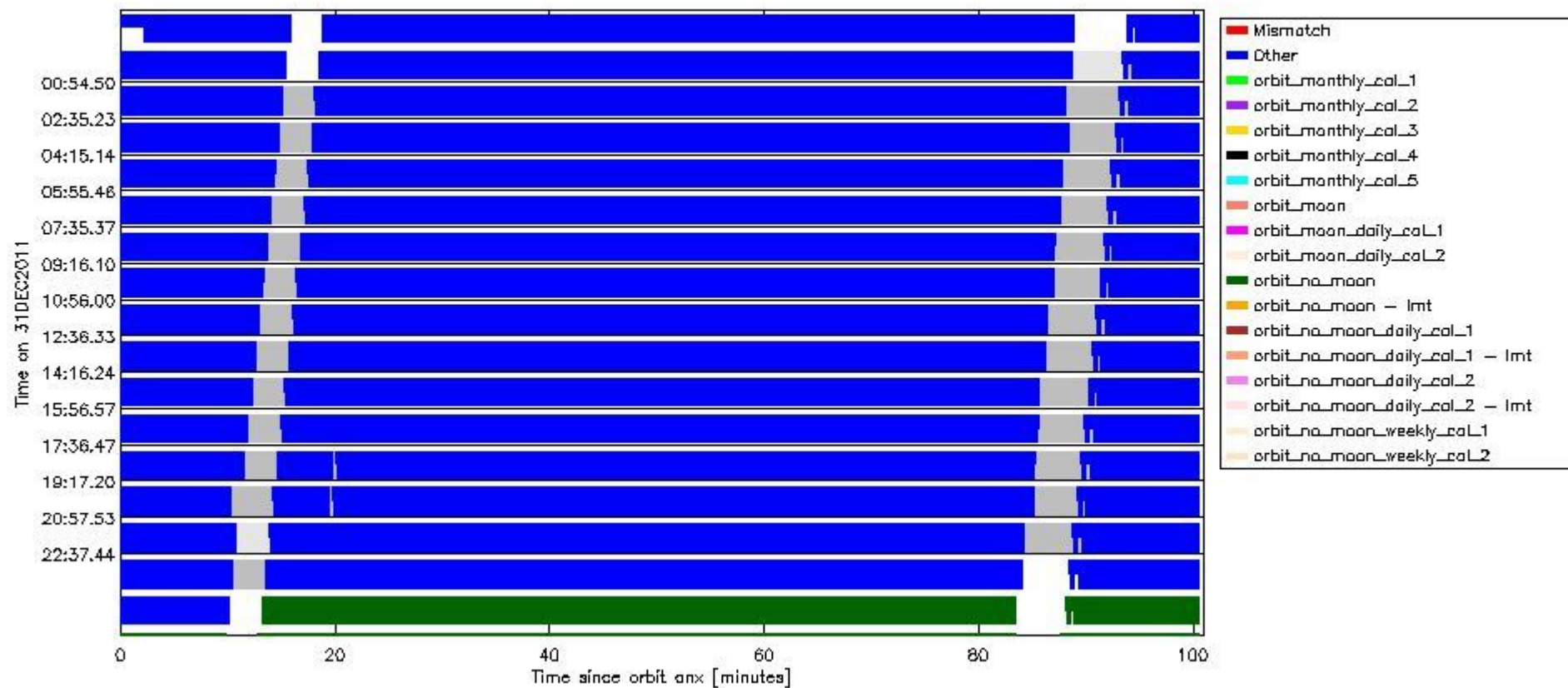


sciamachy_daily_report_level0_KSPT_L0_4504_N_20111231_5.PNG

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 31DEC2011.
 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_4504_N_20111231_6.PNG

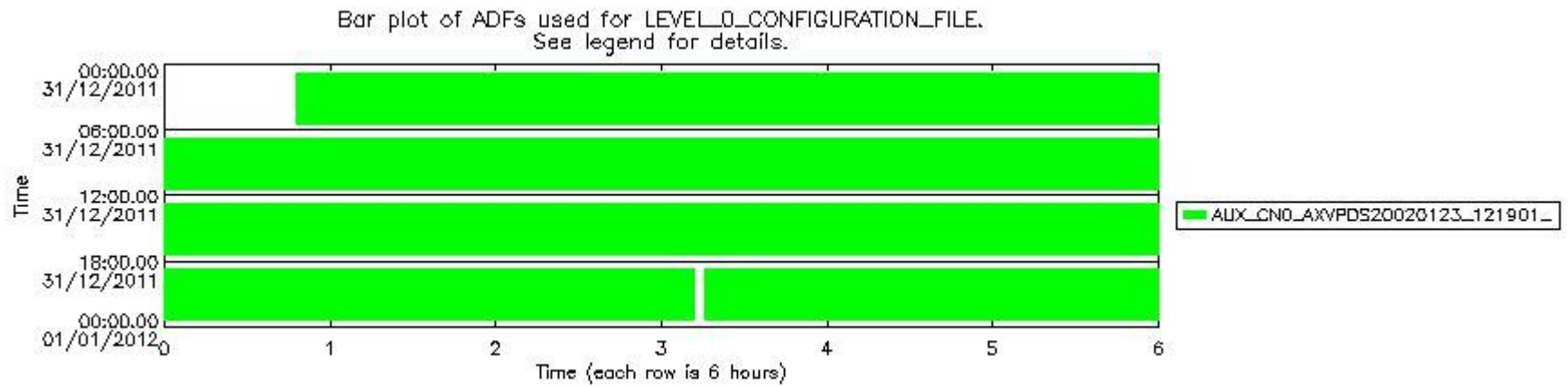
0.4 ADF monitoring

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

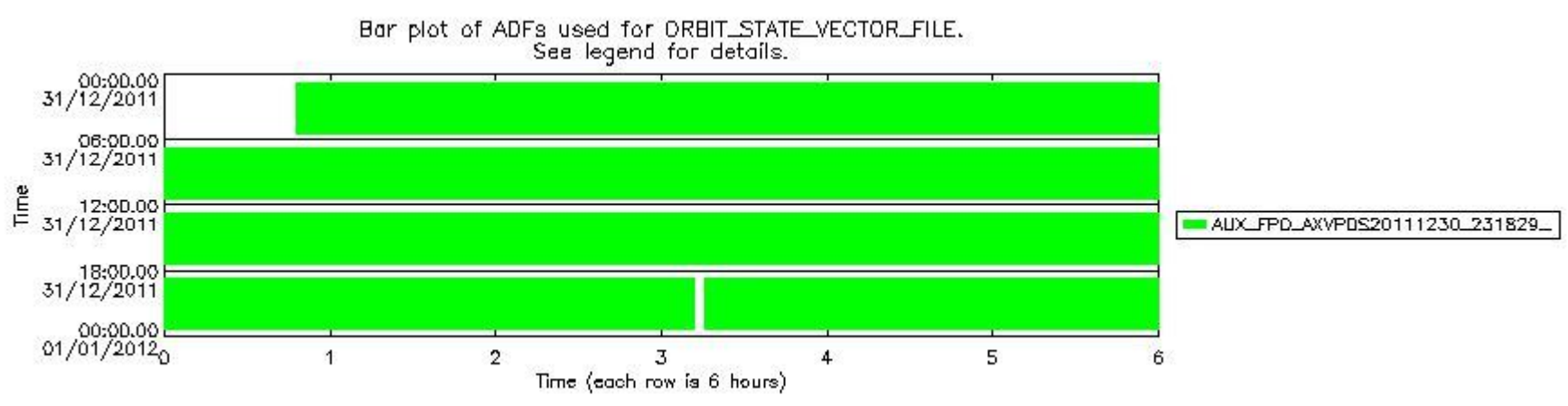
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

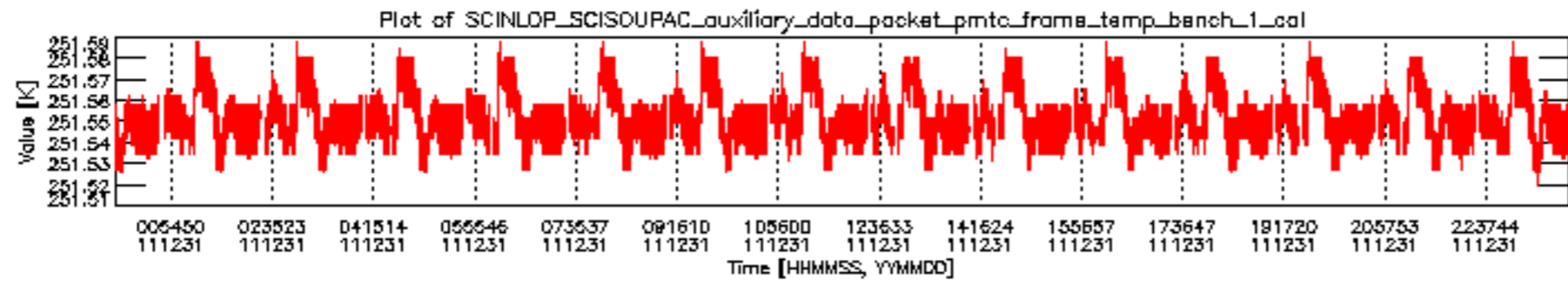
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20111230_231829_20111230_195408_20120109_202734

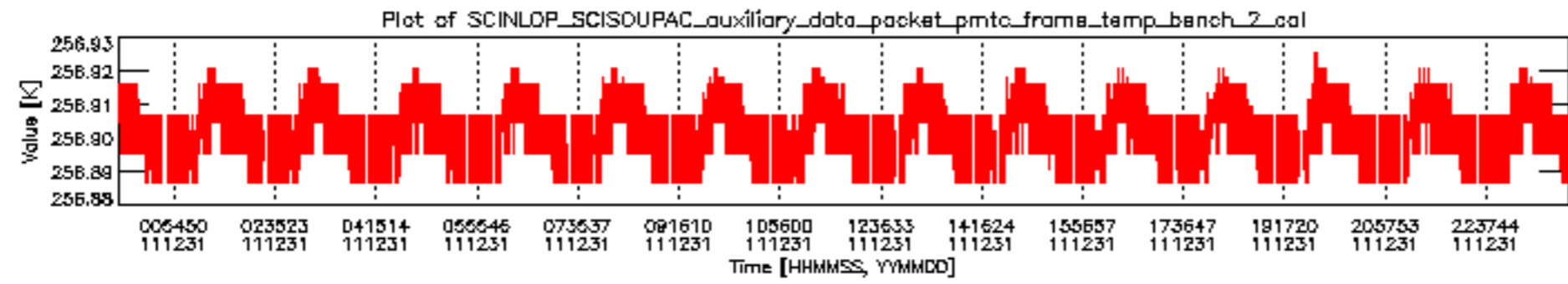


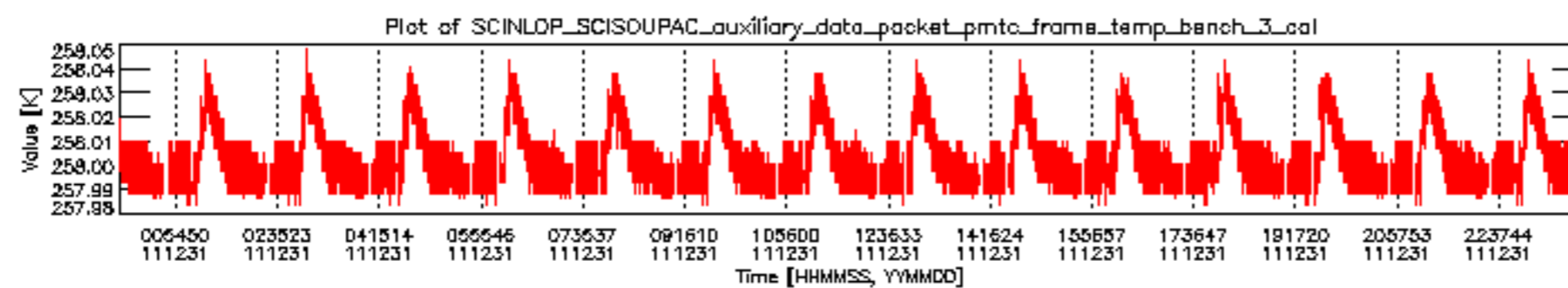
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111231_7.PNG

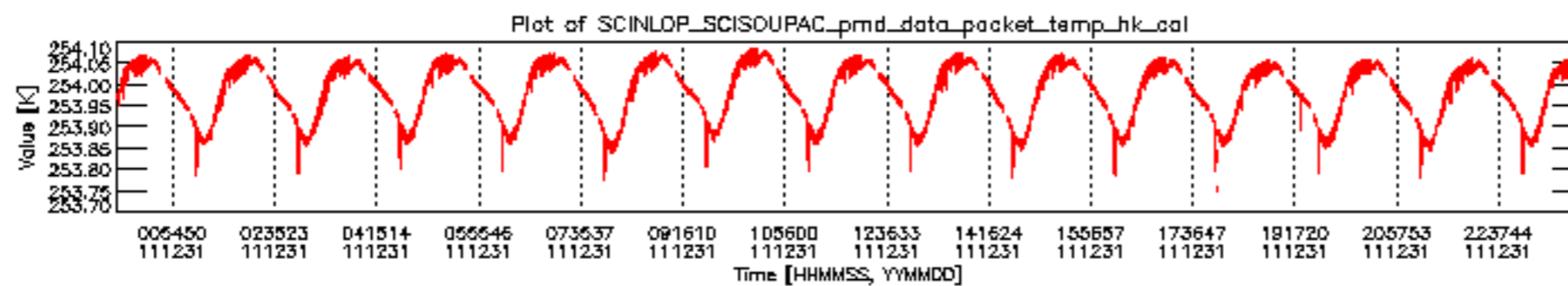


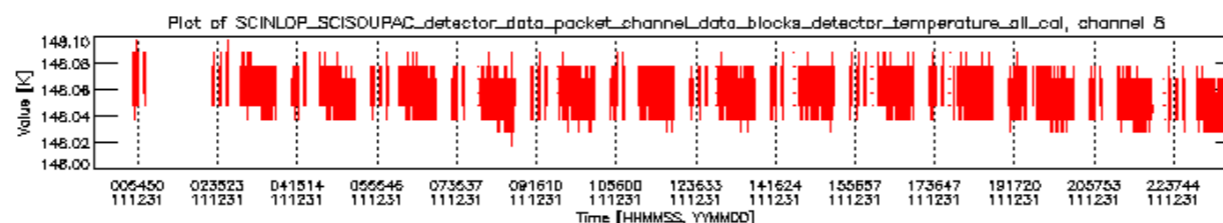
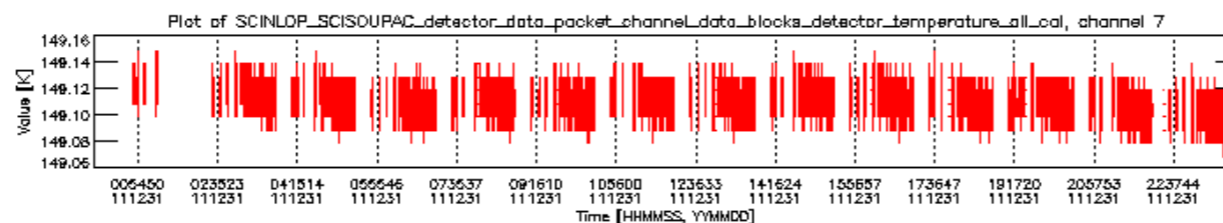
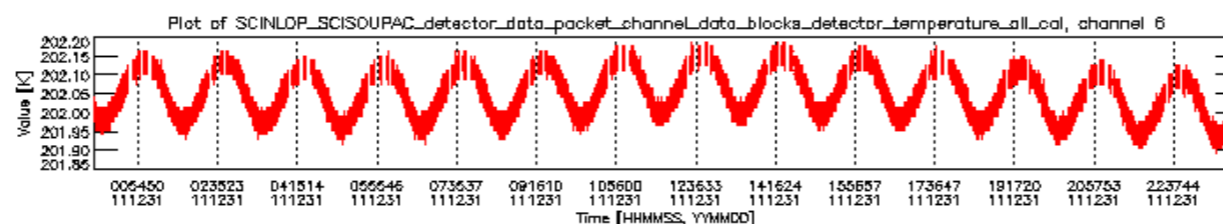
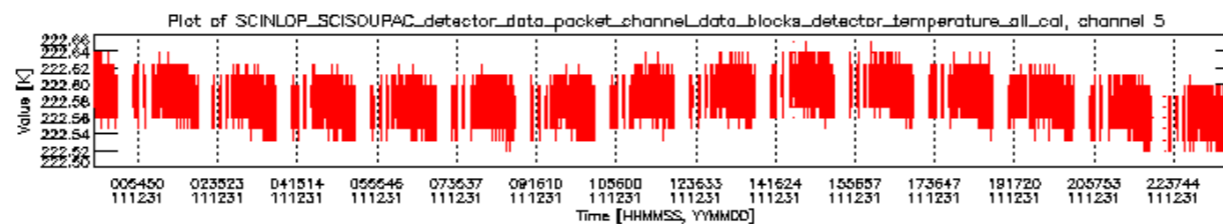
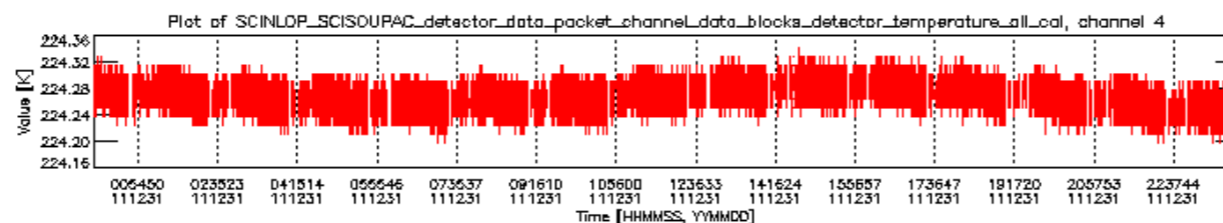
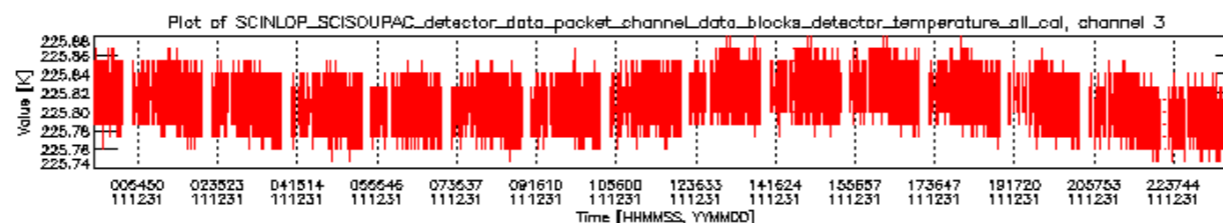
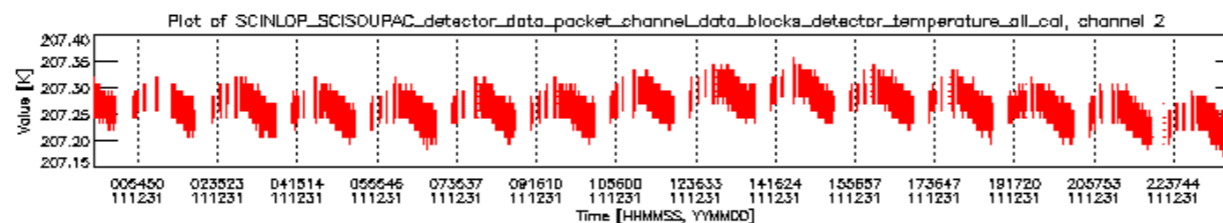
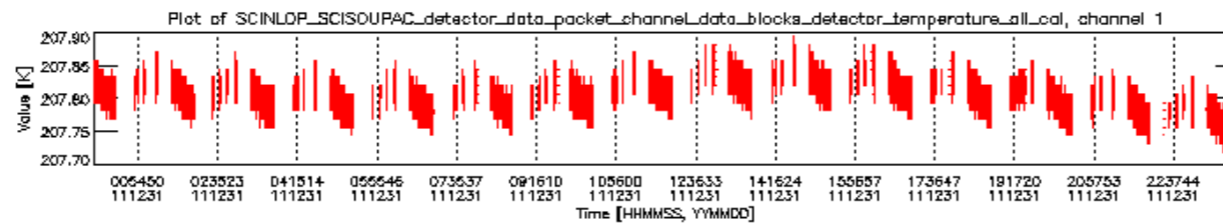
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111231_8.PNG

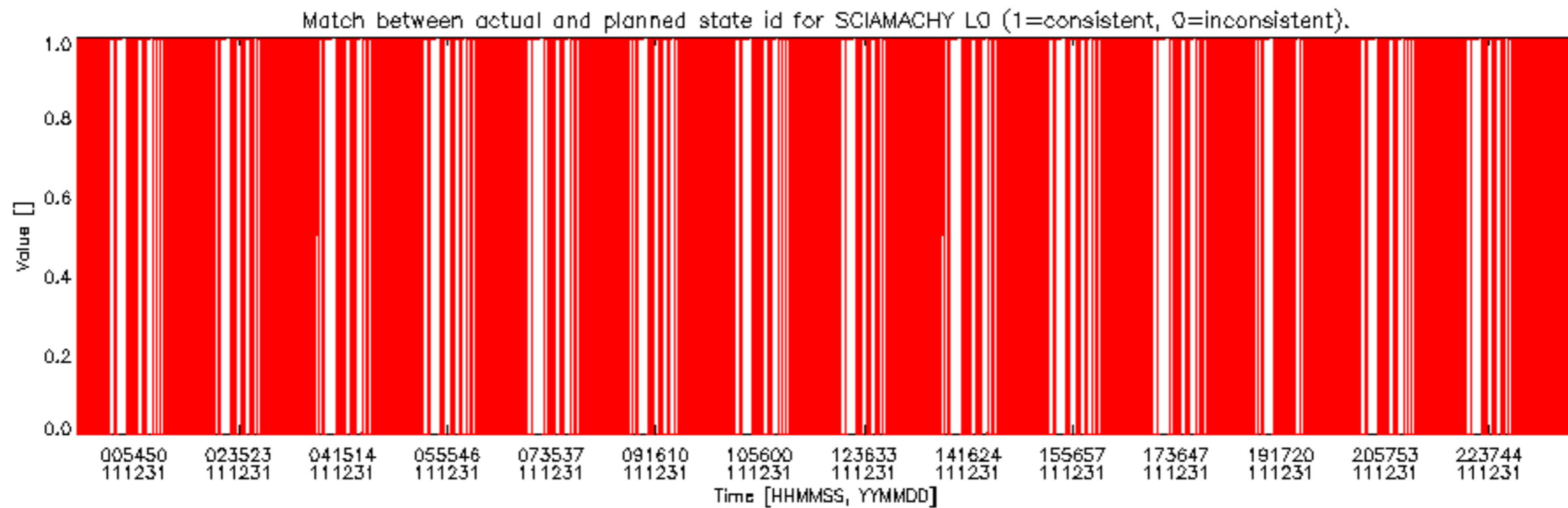
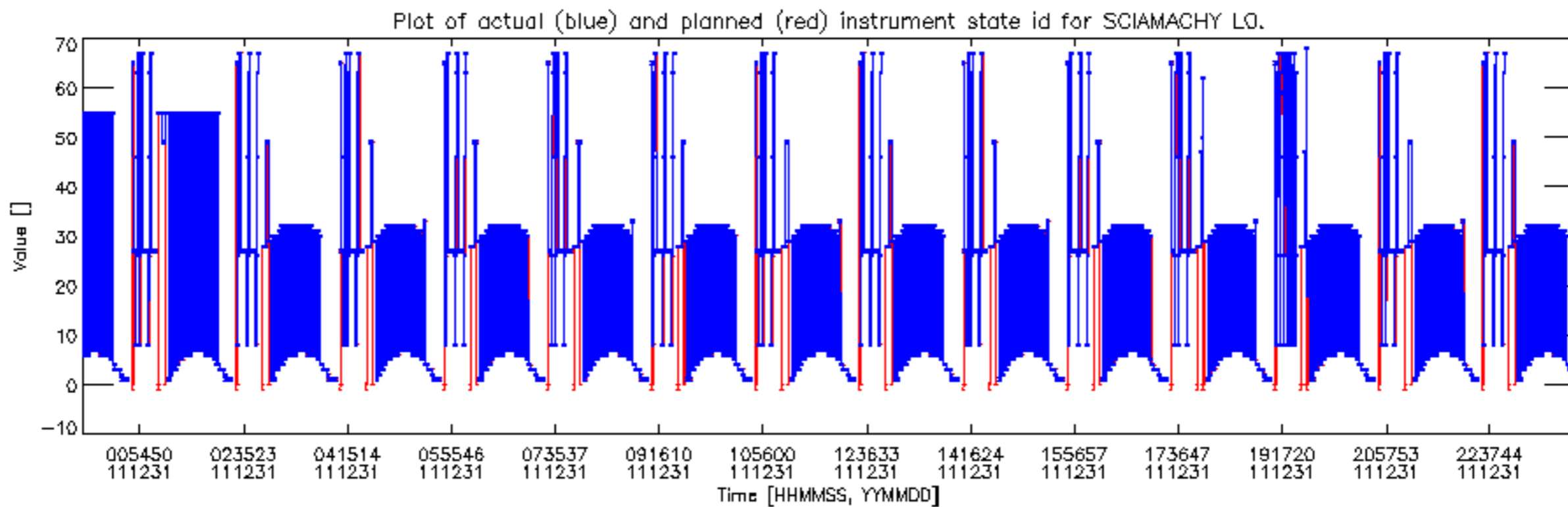












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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