

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	10FEB2009 04:16:45
Data source version	KSPT_L0/4303-N
Processing scope for products	06FEB2009 00:00:00 to 07FEB2009 00:00:00
Start time of first product within scope	05FEB2009 23:16:45
Stop time of last product within scope	07FEB2009 00:20:41
Total number of level 0 products	16
Number of level 0 products with errors	3

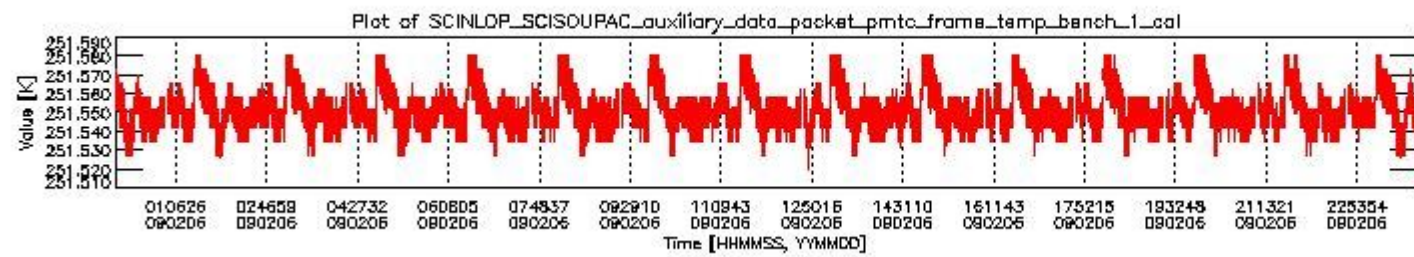
0.1.2 Summary per product

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

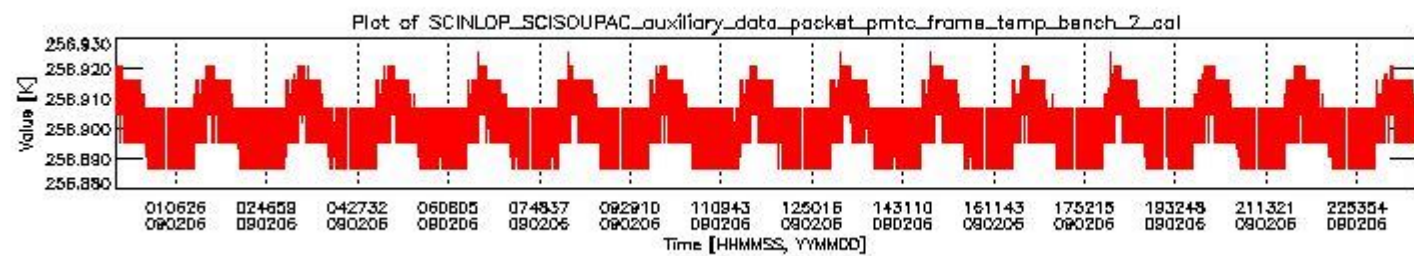
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090205_231645_000057302076_00144_36270_8435.N1	05FEB2009 23:16:45	06FEB2009 00:52:15	0	0	0	0	0
1	SCI_NL__OPNPDE20090206_005215_000049512076_00145_36271_8436.N1	06FEB2009 00:52:15	06FEB2009 02:14:47	0	0	0	0	0
2	SCI_NL__OPNPDE20090206_021447_000055382076_00146_36272_8437.N1	06FEB2009 02:14:47	06FEB2009 03:47:04	0	0	0	0	0
3	SCI_NL__OPNPDE20090206_034704_000060362076_00147_36273_8438.N1	06FEB2009 03:47:04	06FEB2009 05:27:40	0	0	0	0	0
4	SCI_NL__OPNPDE20090206_052740_000060362076_00148_36274_8439.N1	06FEB2009 05:27:40	06FEB2009 07:08:16	0	0	0	0	0
5	SCI_NL__OPNPDK20090206_070720_000041002076_00149_36275_0646.N1	06FEB2009 07:07:20	06FEB2009 08:15:40	0	0	0	0	0
6	SCI_NL__OPNPDK20090206_081336_000062282076_00150_36276_0647.N1	06FEB2009 08:13:36	06FEB2009 09:57:24	1	1	0	0	0
7	SCI_NL__OPNPDK20090206_095520_000060912076_00151_36277_4756.N1	06FEB2009 09:55:20	06FEB2009 11:36:51	0	0	0	0	0
8	SCI_NL__OPNPDK20090206_113447_000061042076_00152_36278_0649.N1	06FEB2009 11:34:47	06FEB2009 13:16:31	1	1	0	0	0
9	SCI_NL__OPNPDK20090206_131522_000058682076_00153_36279_0651.N1	06FEB2009 13:15:22	06FEB2009 14:53:10	0	0	0	0	0
10	SCI_NL__OPNPDK20090206_144956_000061732076_00154_36280_0652.N1	06FEB2009 14:49:56	06FEB2009 16:32:50	1	1	0	0	0
11	SCI_NL__OPNPDK20090206_163032_000060362076_00155_36281_0653.N1	06FEB2009 16:30:32	06FEB2009 18:11:07	0	0	0	0	0
12	SCI_NL__OPNPDK20090206_180915_000060362076_00156_36282_0654.N1	06FEB2009 18:09:15	06FEB2009 19:49:50	0	0	0	0	0
13	SCI_NL__OPNPDE20090206_194758_000040962076_00157_36283_8440.N1	06FEB2009 19:47:58	06FEB2009 20:56:14	0	0	0	0	0
14	SCI_NL__OPNPDE20090206_205506_000063052076_00157_36283_8441.N1	06FEB2009 20:55:06	06FEB2009 22:40:10	0	0	0	0	0
15	SCI_NL__OPNPDE20090206_224010_000060302076_00158_36284_8442.N1	06FEB2009 22:40:10	07FEB2009 00:20:41	0	0	0	0	0

0.2 Product Quality Indicators

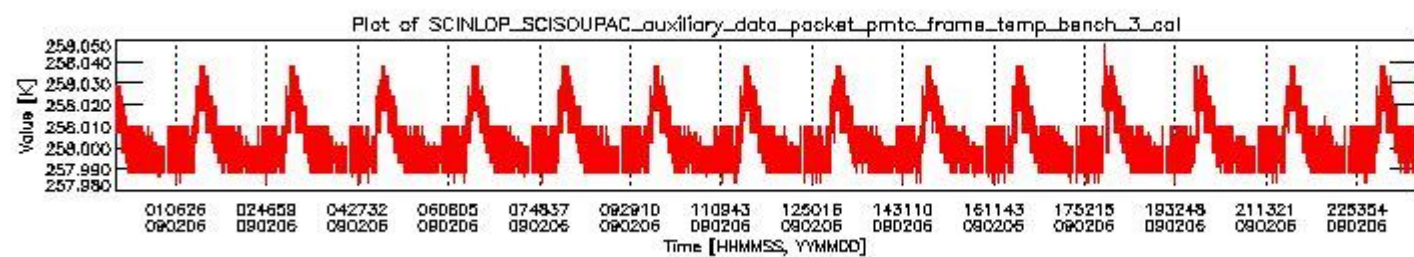
This section shows information about product quality, currently temperatures.



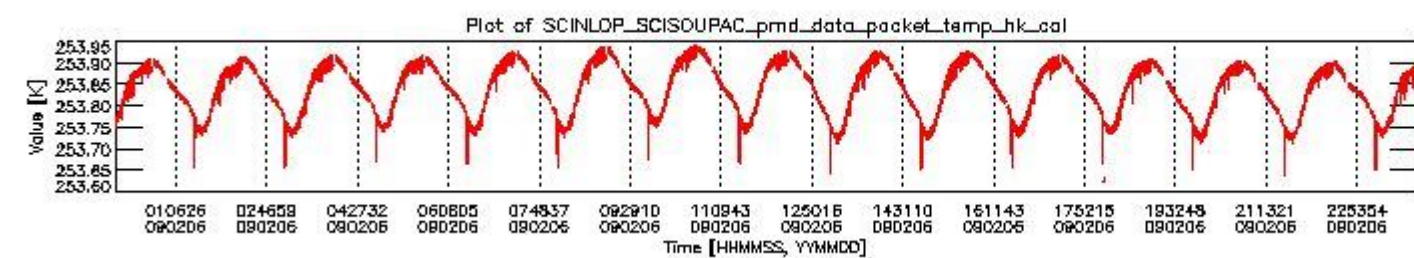
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090206_0.PNG



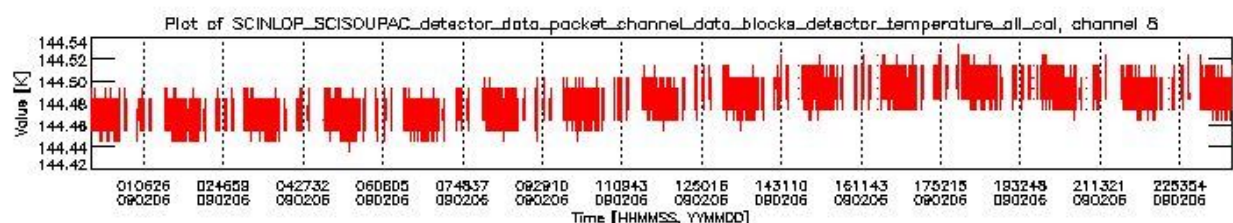
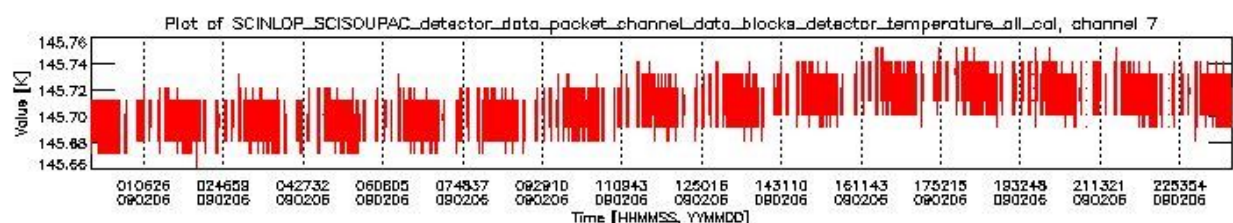
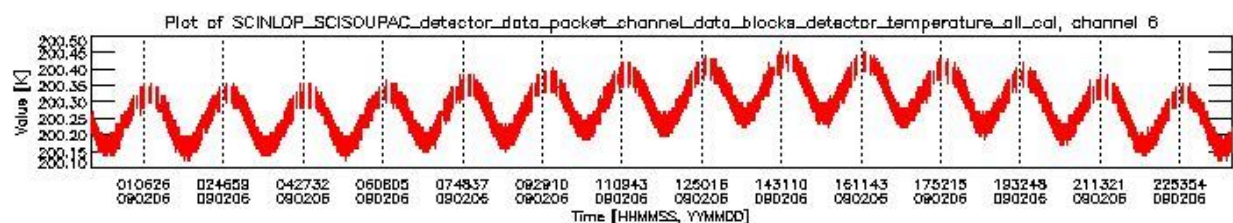
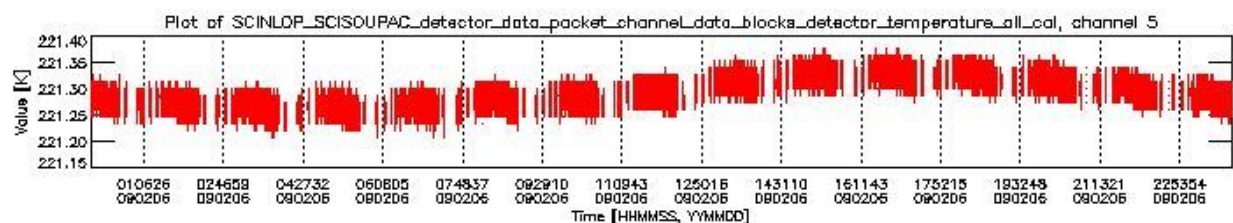
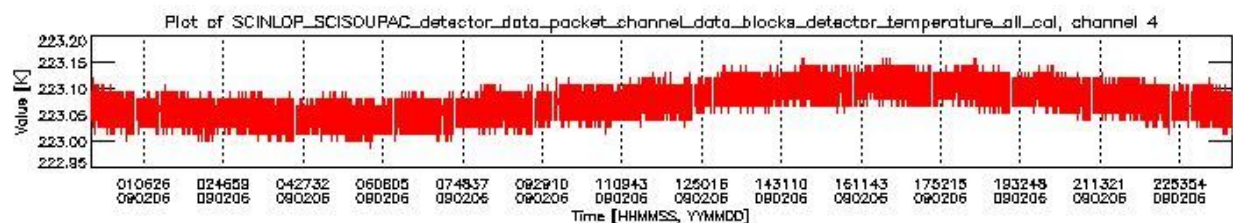
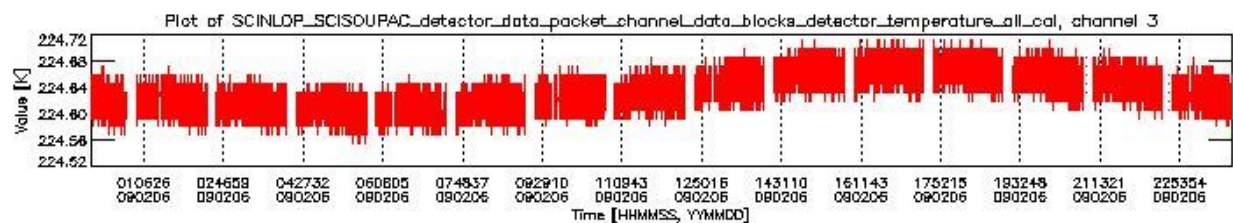
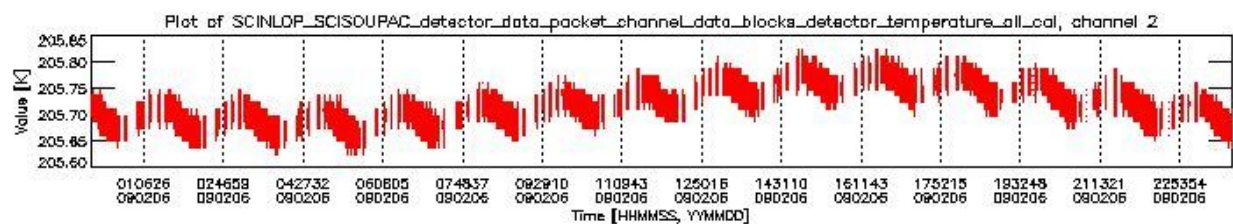
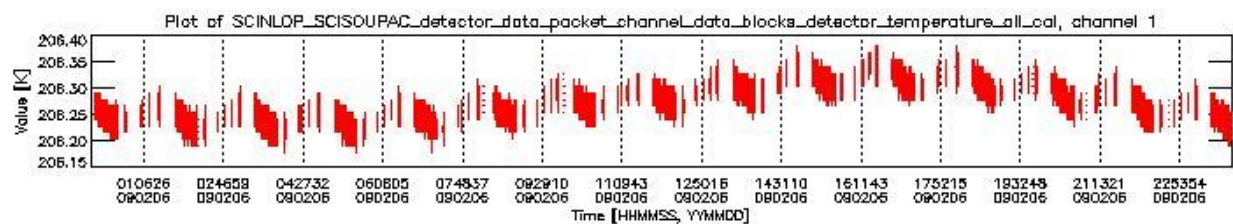
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090206_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20090206_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20090206_3.PNG

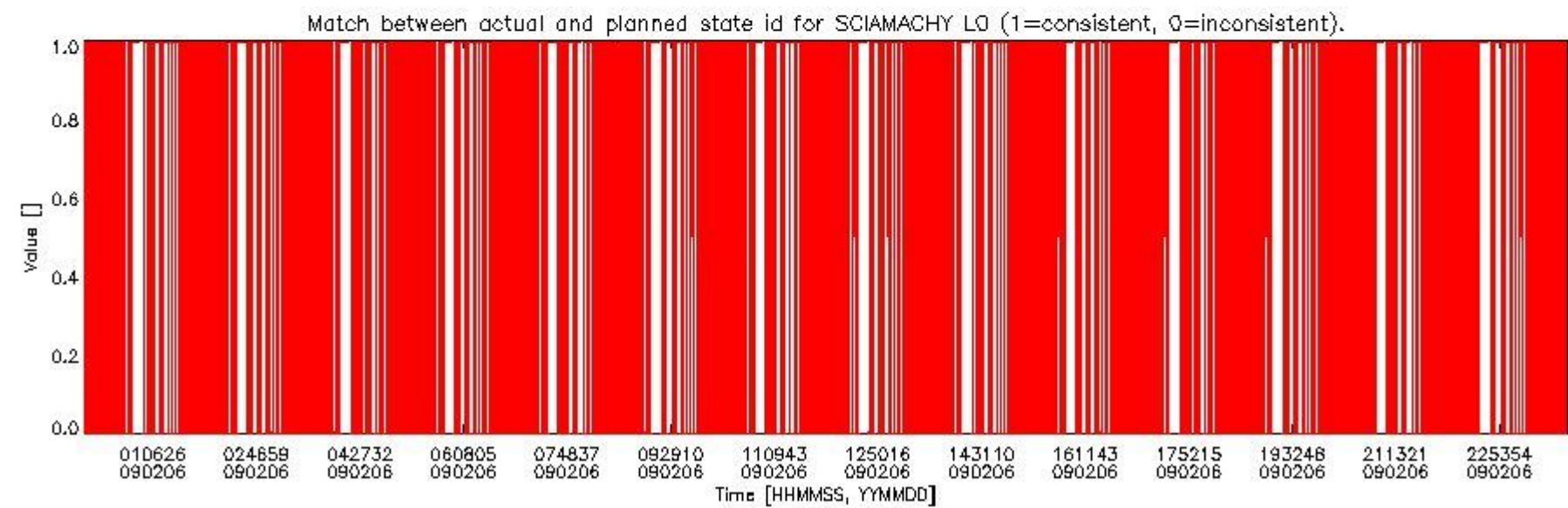
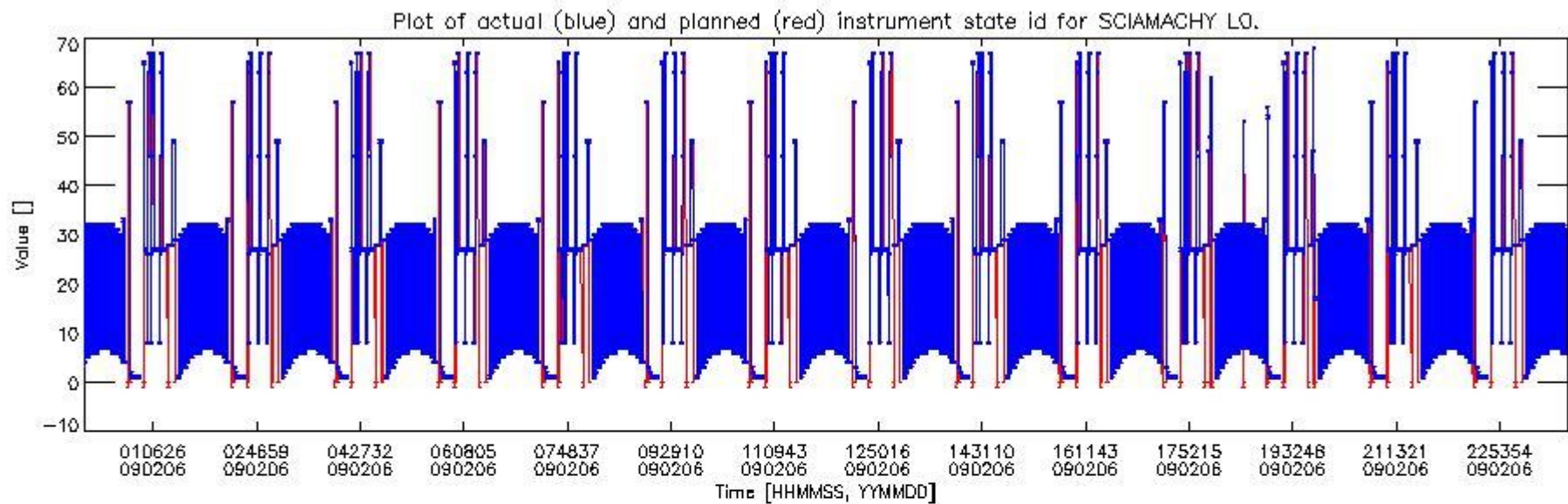


0.3 State monitoring

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: **54099**

#	Actual time	Actual value	Planned time	Planned value
0	06FEB2009 00:00:05.071668	32	06FEB2009 00:00:05.071668	4
1	06FEB2009 00:00:05.696690	32	06FEB2009 00:00:05.696690	4
2	06FEB2009 00:00:06.071663	32	06FEB2009 00:00:06.071663	4
3	06FEB2009 00:00:06.446676	32	06FEB2009 00:00:06.446676	4
4	06FEB2009 00:00:07.009175	32	06FEB2009 00:00:07.009175	4
5	06FEB2009 00:00:07.384188	32	06FEB2009 00:00:07.384188	4
6	06FEB2009 00:00:07.759161	32	06FEB2009 00:00:07.759161	4
7	06FEB2009 00:00:08.134174	32	06FEB2009 00:00:08.134174	4
8	06FEB2009 00:00:08.696674	32	06FEB2009 00:00:08.696674	4
9	06FEB2009 00:00:09.071687	32	06FEB2009 00:00:09.071687	4
10	06FEB2009 00:00:09.446660	32	06FEB2009 00:00:09.446660	4
11	06FEB2009 00:00:09.821673	32	06FEB2009 00:00:09.821673	4
12	06FEB2009 00:00:10.071681	32	06FEB2009 00:00:10.071681	4
13	06FEB2009 00:00:10.384172	32	06FEB2009 00:00:10.384172	4
14	06FEB2009 00:00:10.759185	32	06FEB2009 00:00:10.759185	4
15	06FEB2009 00:00:11.134158	32	06FEB2009 00:00:11.134158	4
16	06FEB2009 00:00:11.509171	32	06FEB2009 00:00:11.509171	4
17	06FEB2009 00:00:12.071671	32	06FEB2009 00:00:12.071671	4
18	06FEB2009 00:00:12.446684	32	06FEB2009 00:00:12.446684	4
19	06FEB2009 00:00:12.821697	32	06FEB2009 00:00:12.821697	4
...

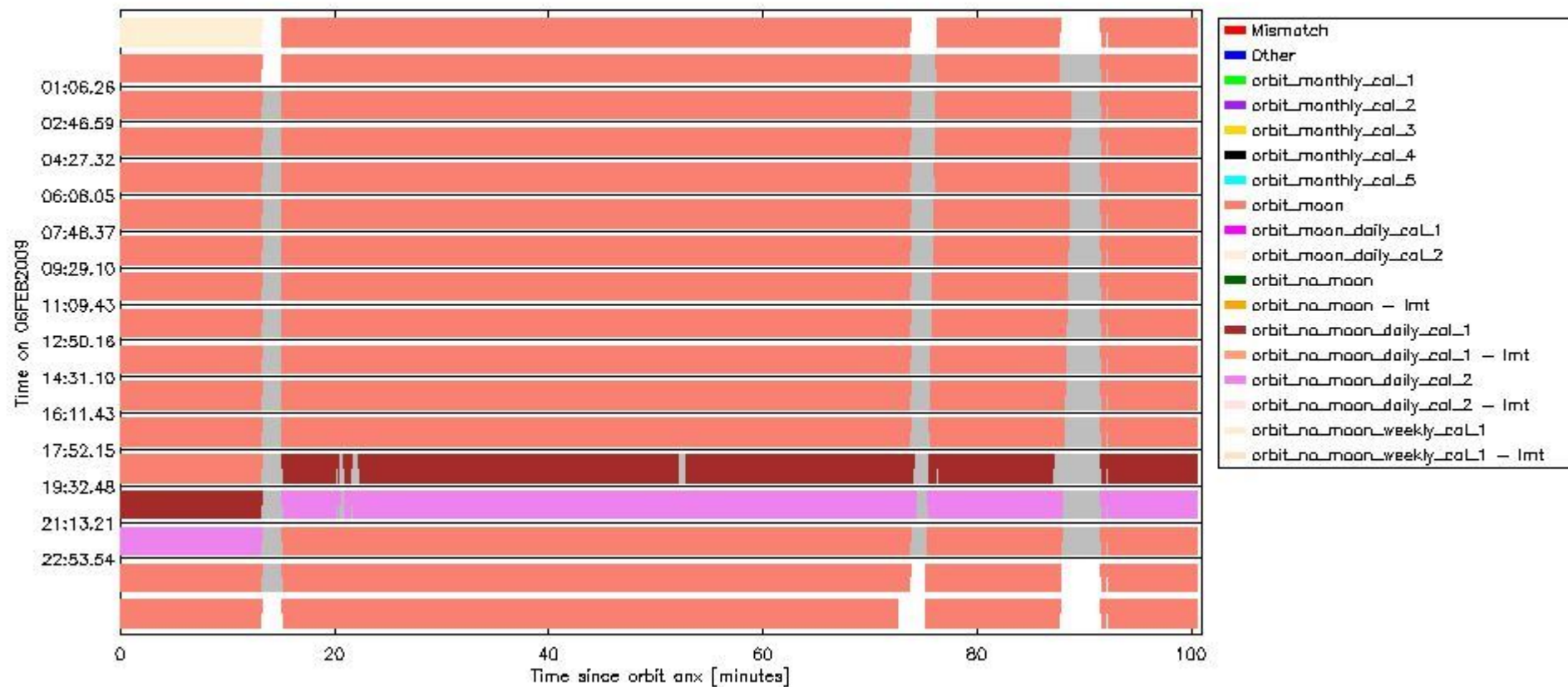


sciamachy_daily_report_level0_KSPT_L0_4303_N_20090206_5.PNG

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 06FEB2009.
 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_20090206_6.PNG

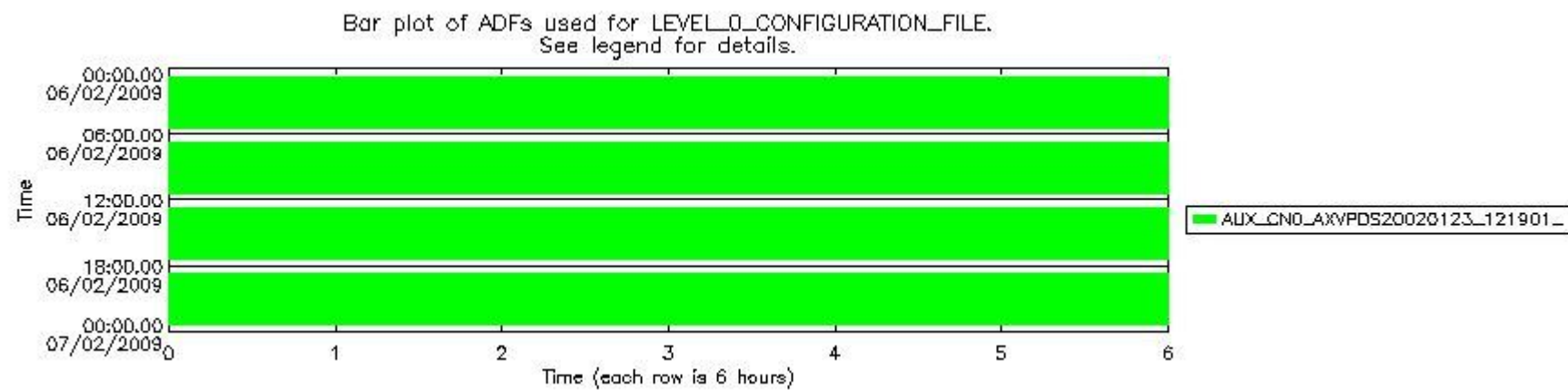
0.4 ADF monitoring

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

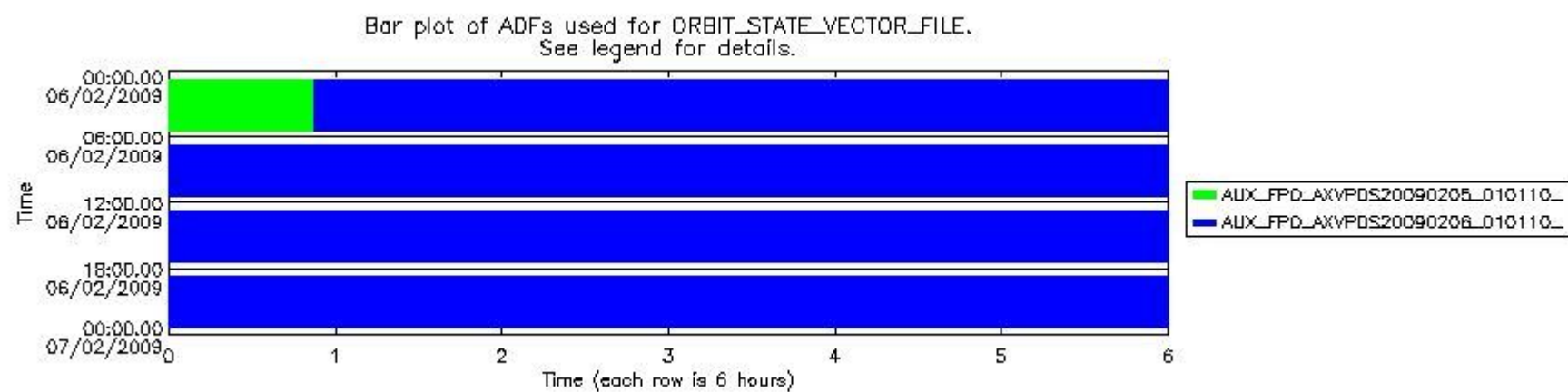
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

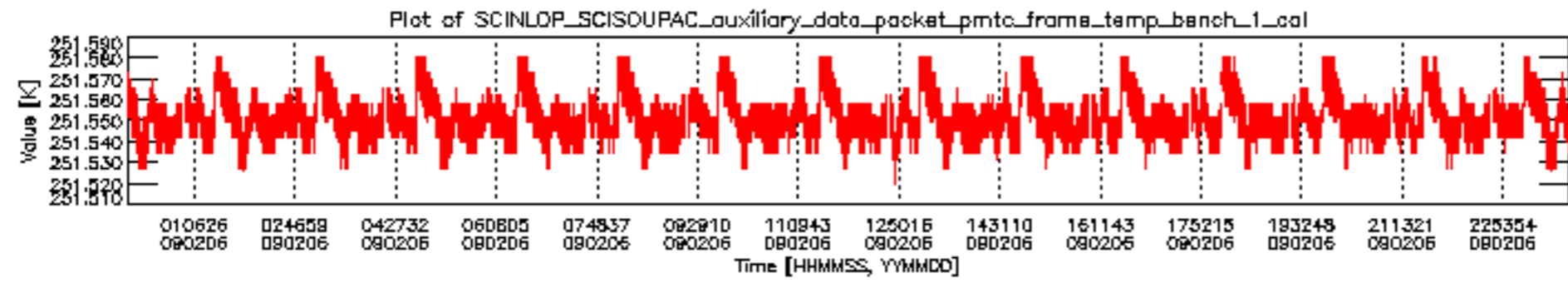
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20090205_010110_20090204_185529_20090214_202144
2	AUX_FPO_AXVPDS20090206_010110_20090205_182353_20090215_213043

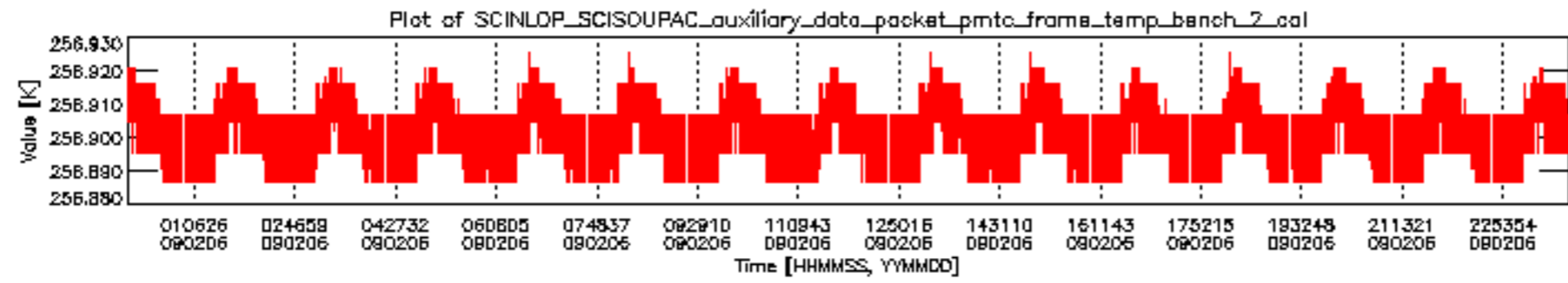


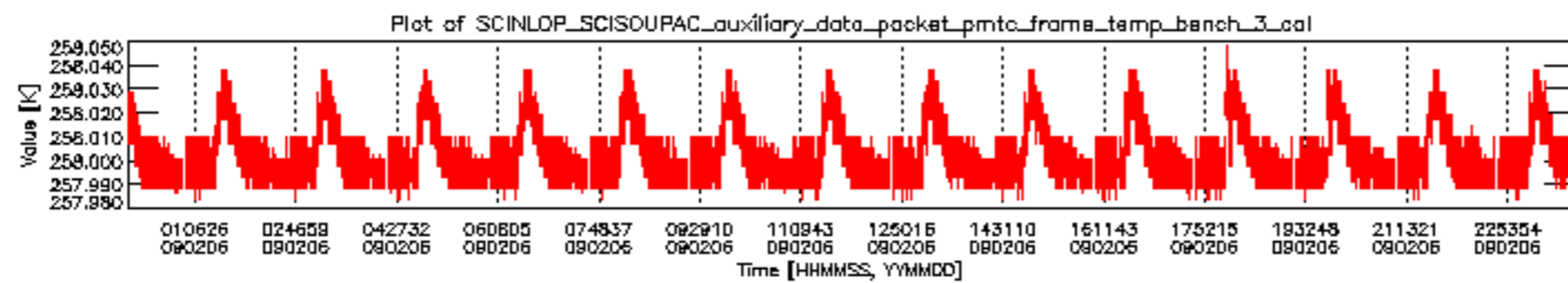
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090206_7.PNG

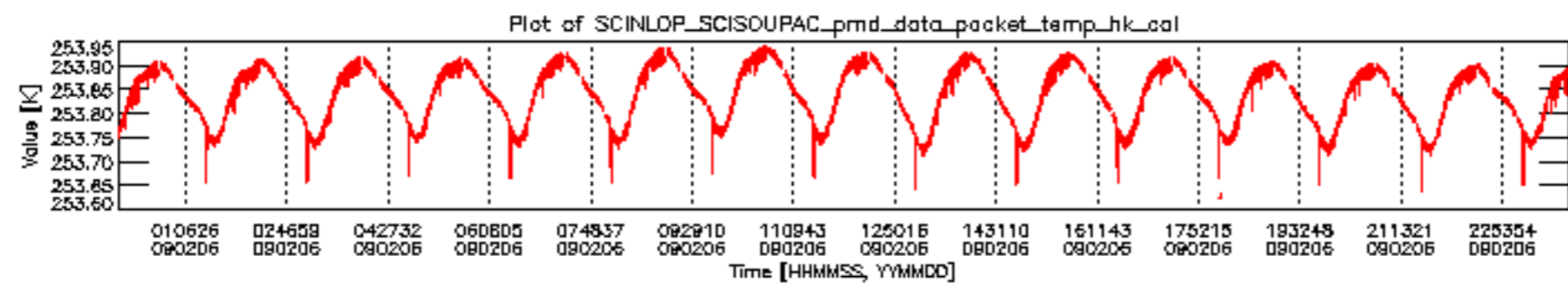


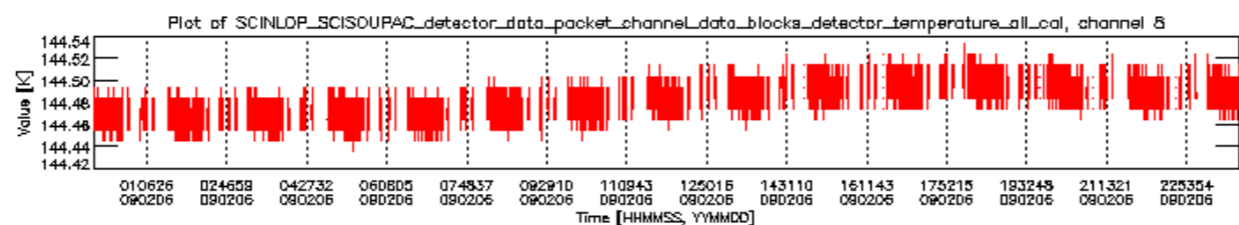
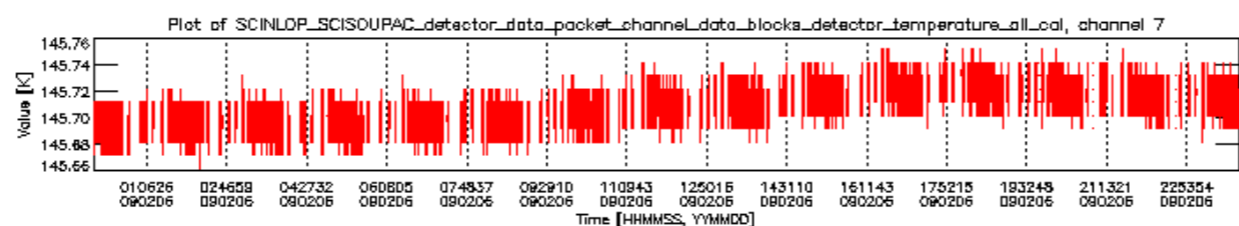
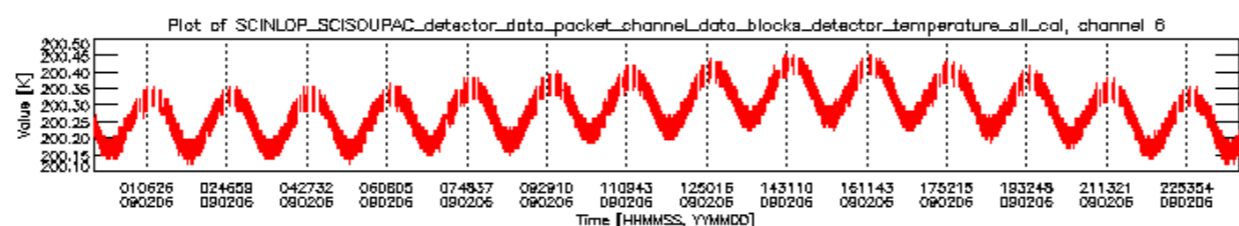
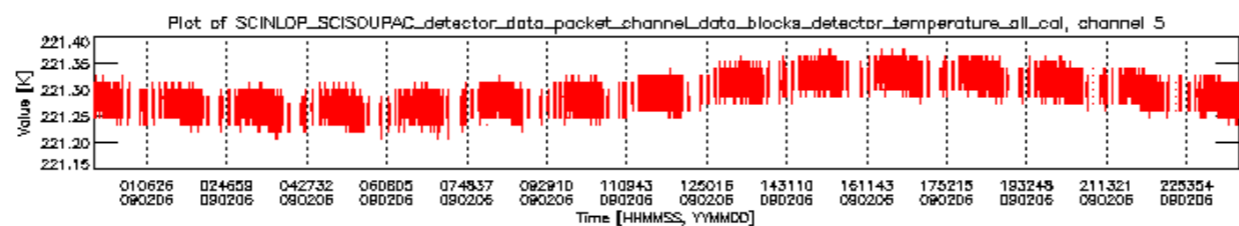
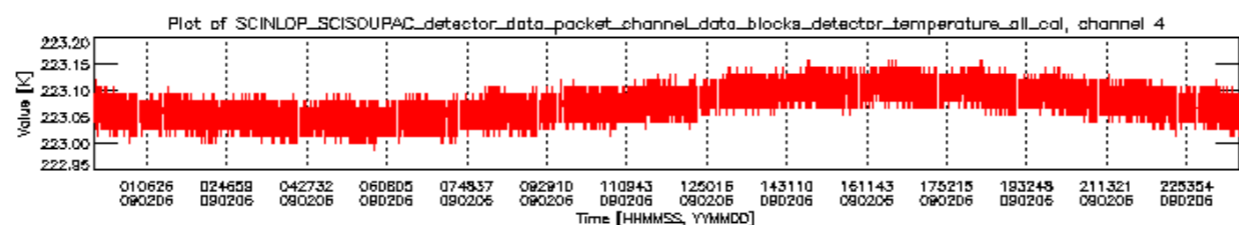
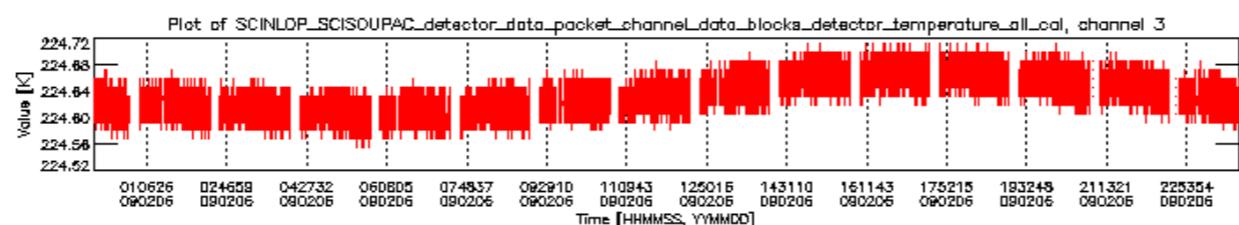
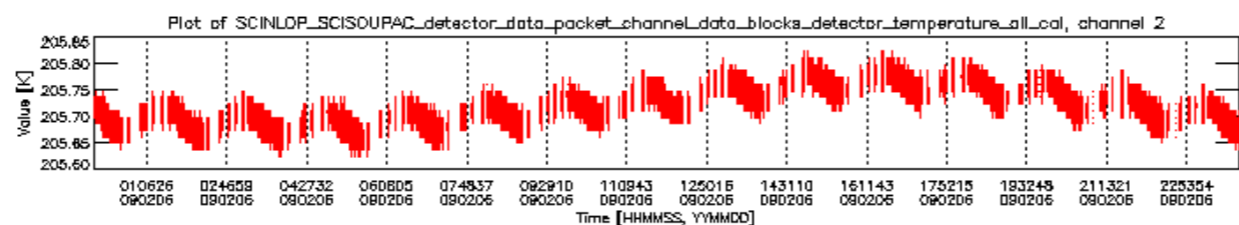
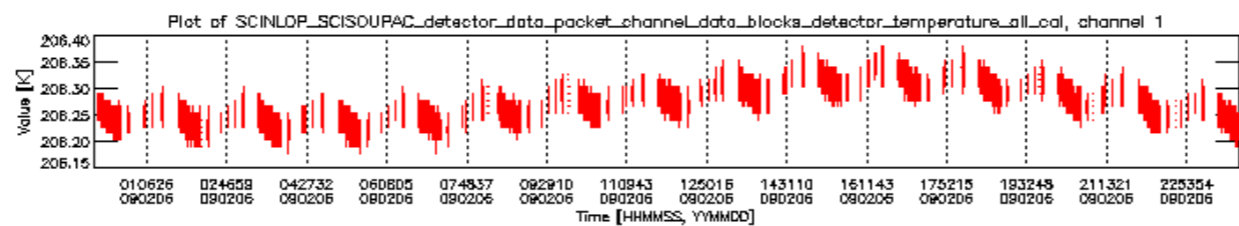
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090206_8.PNG



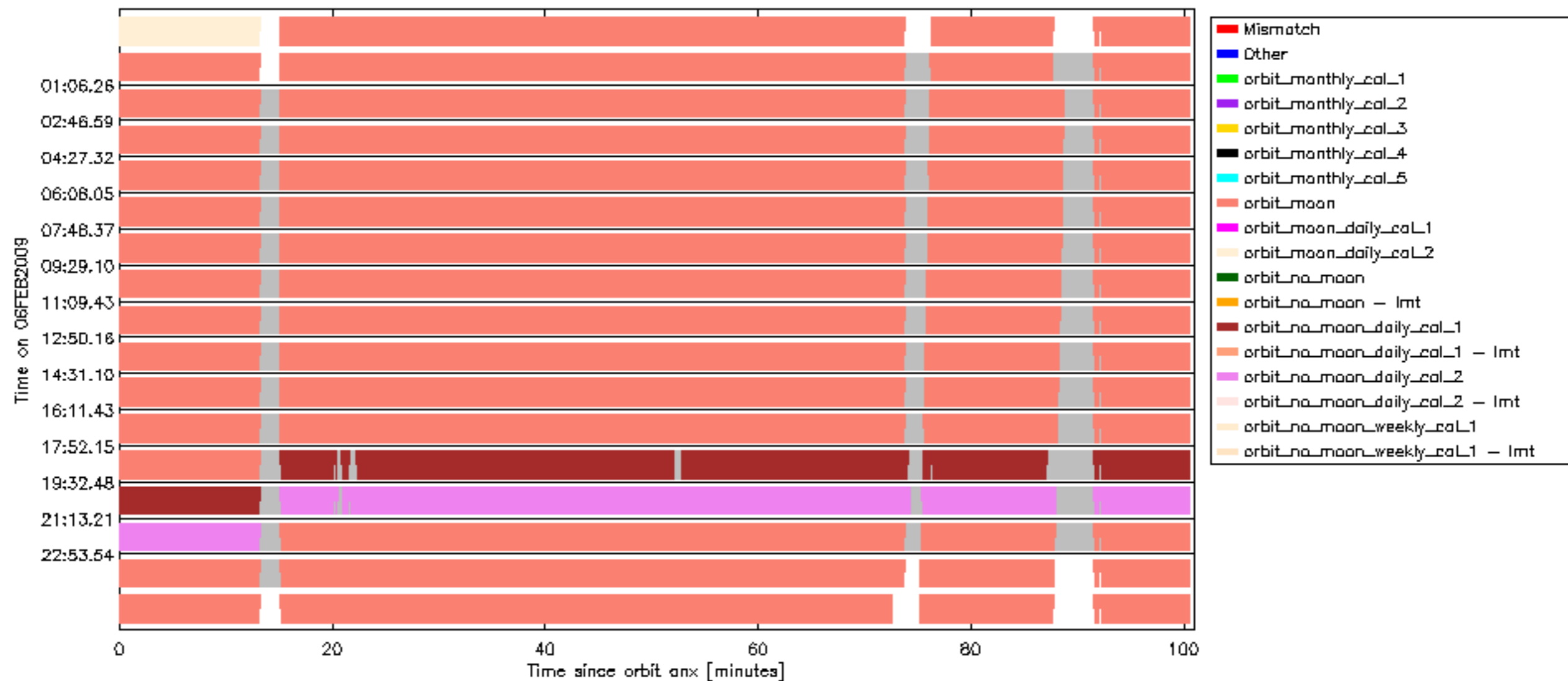


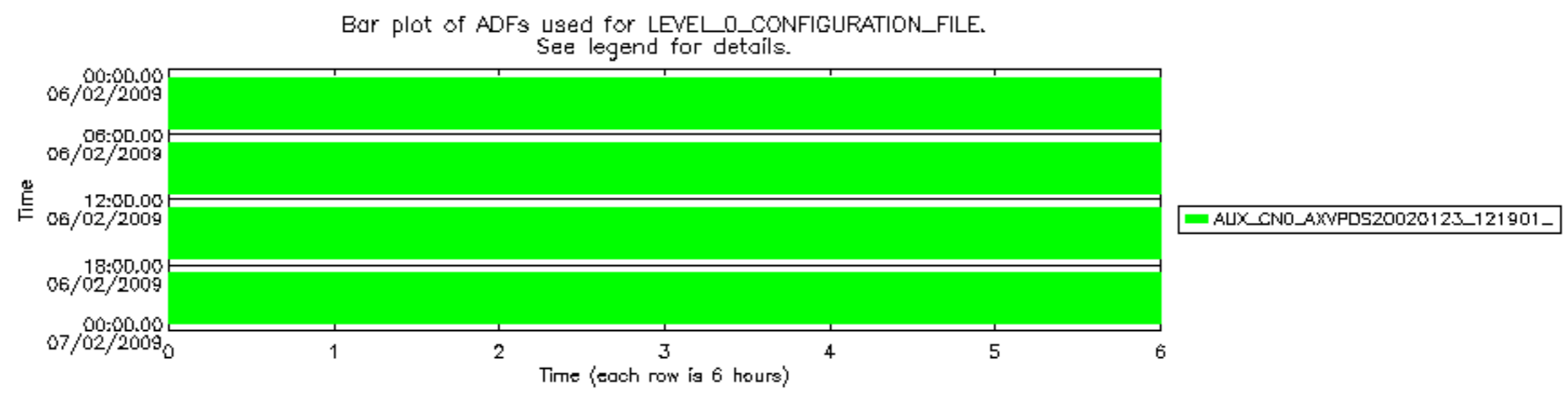






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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 The remaining colours indicate planned activities and/or special measurements.
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Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.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

