

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	12FEB2008 12:33:53
Data source version	KSPT_L0/4303-N
Processing scope for products	08FEB2008 00:00:00 to 09FEB2008 00:00:00
Start time of first product within scope	08FEB2008 01:37:29
Stop time of last product within scope	09FEB2008 00:58:11
Total number of level 0 products	15
Number of level 0 products with errors	0

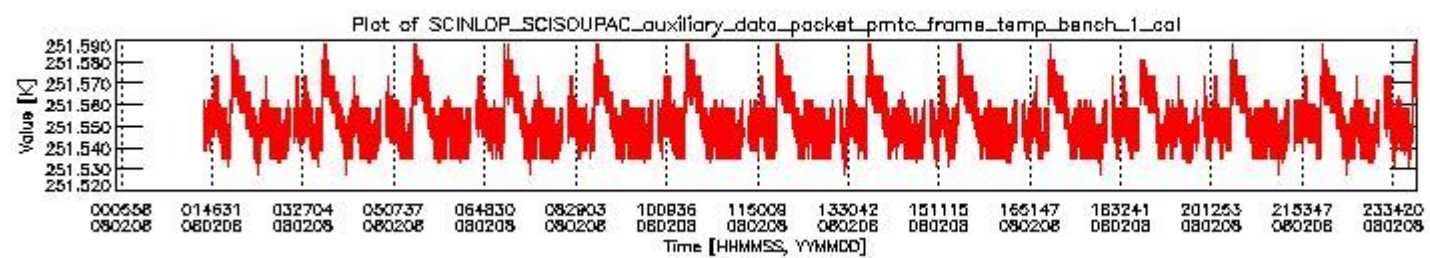
0.1.2 Summary per product

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

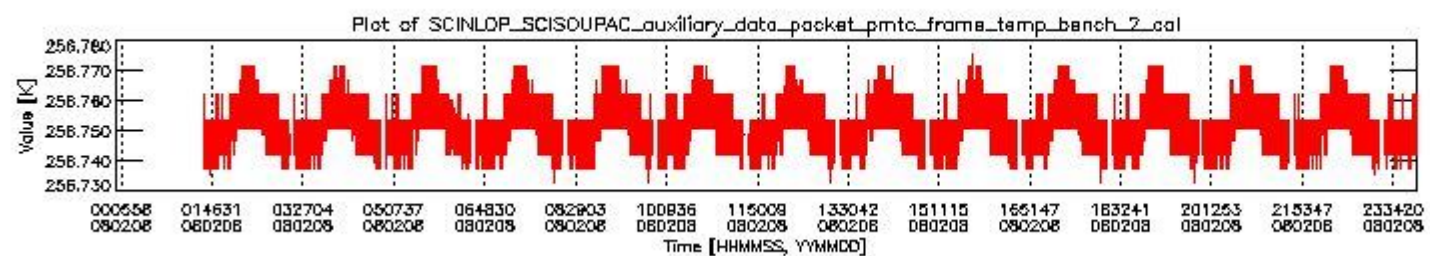
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080208_013729_000044662065_00446_31061_6098.N1	08FEB2008 01:37:29	08FEB2008 02:51:55	0	0	0	0	0
1	SCI_NL__OPNPDE20080208_025059_000057742065_00447_31062_6099.N1	08FEB2008 02:50:59	08FEB2008 04:27:13	0	0	0	0	0
2	SCI_NL__OPNPDE20080208_042713_000061042065_00448_31063_6100.N1	08FEB2008 04:27:13	08FEB2008 06:08:57	0	0	0	0	0
3	SCI_NL__OPNPDK20080208_060801_000040322065_00449_31064_7335.N1	08FEB2008 06:08:01	08FEB2008 07:15:13	0	0	0	0	0
4	SCI_NL__OPNPDK20080208_071417_000062282065_00450_31065_7336.N1	08FEB2008 07:14:17	08FEB2008 08:58:06	0	0	0	0	0
5	SCI_NL__OPNPDK20080208_085657_000060352065_00451_31066_7337.N1	08FEB2008 08:56:57	08FEB2008 10:37:33	0	0	0	0	0
6	SCI_NL__OPNPDK20080208_103624_000060482065_00452_31067_7338.N1	08FEB2008 10:36:24	08FEB2008 12:17:12	0	0	0	0	0
7	SCI_NL__OPNPDK20080208_121508_000060912065_00453_31068_7339.N1	08FEB2008 12:15:08	08FEB2008 13:56:39	0	0	0	0	0
8	SCI_NL__OPNPDK20080208_135530_000058682065_00454_31069_7340.N1	08FEB2008 13:55:30	08FEB2008 15:33:18	0	0	0	0	0
9	SCI_NL__OPNPDK20080208_153005_000061622065_00455_31070_7341.N1	08FEB2008 15:30:05	08FEB2008 17:12:47	0	0	0	0	0
10	SCI_NL__OPNPDK20080208_171247_000057402065_00456_31071_7342.N1	08FEB2008 17:12:47	08FEB2008 18:48:27	0	0	0	0	0
11	SCI_NL__OPNPDK20080208_184731_000060912065_00457_31072_7343.N1	08FEB2008 18:47:31	08FEB2008 20:29:02	0	0	0	0	0
12	SCI_NL__OPNPDE20080208_202807_000041332065_00458_31073_6101.N1	08FEB2008 20:28:07	08FEB2008 21:37:00	0	0	0	0	0
13	SCI_NL__OPNPDE20080208_214435_000055932065_00458_31073_6102.N1	08FEB2008 21:44:35	08FEB2008 23:17:48	0	0	0	0	0
14	SCI_NL__OPNPDE20080208_232510_000055802065_00459_31074_6103.N1	08FEB2008 23:25:10	09FEB2008 00:58:11	0	0	0	0	0

0.2 Product Quality Indicators

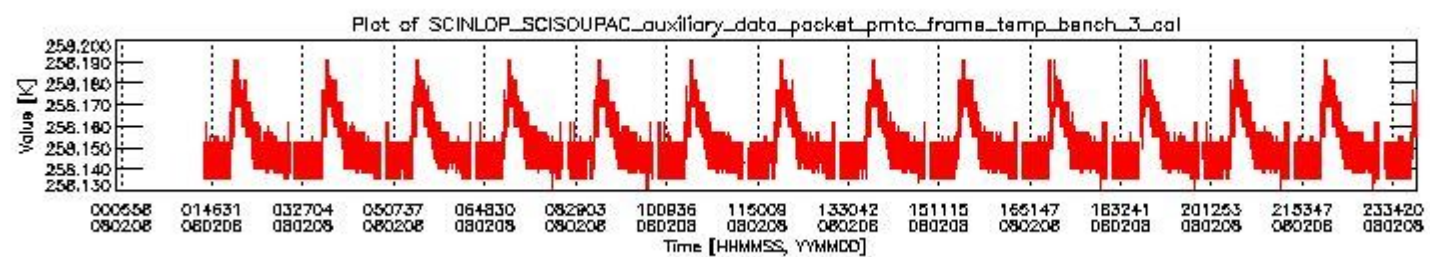
This section shows information about product quality, currently temperatures.



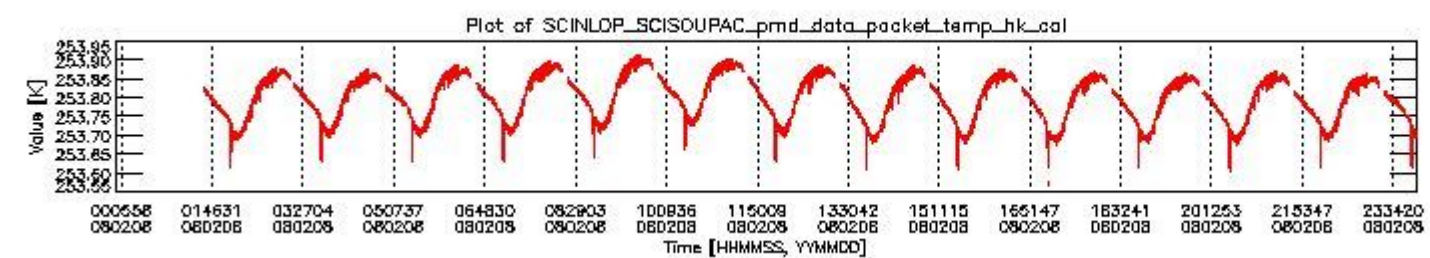
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080208_0.PNG



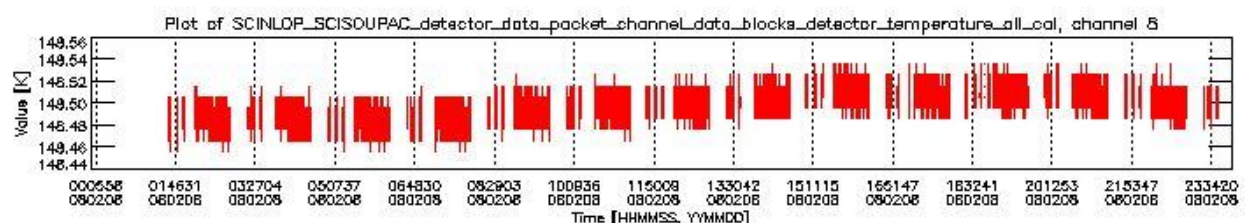
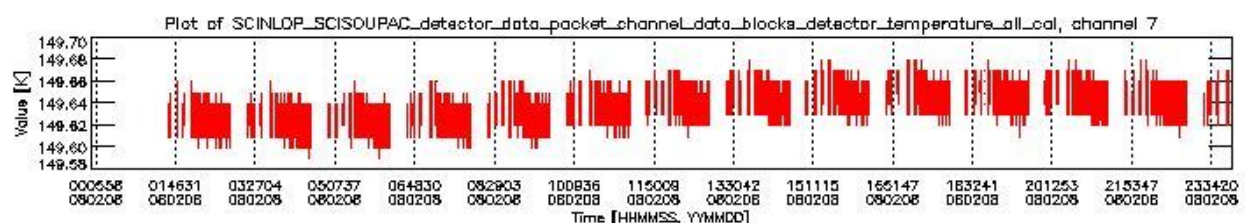
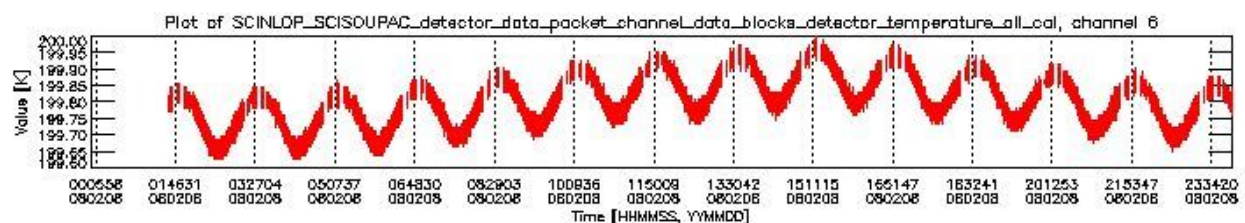
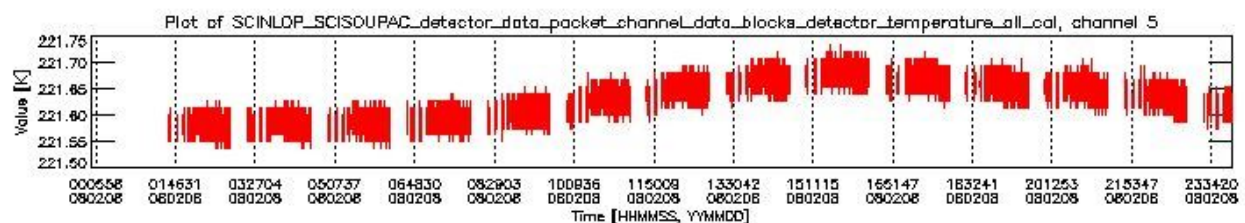
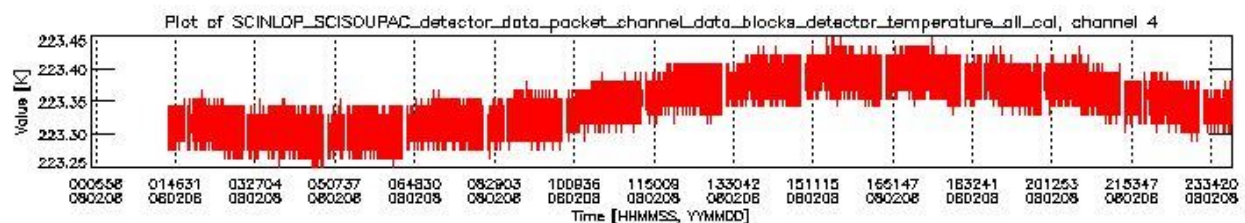
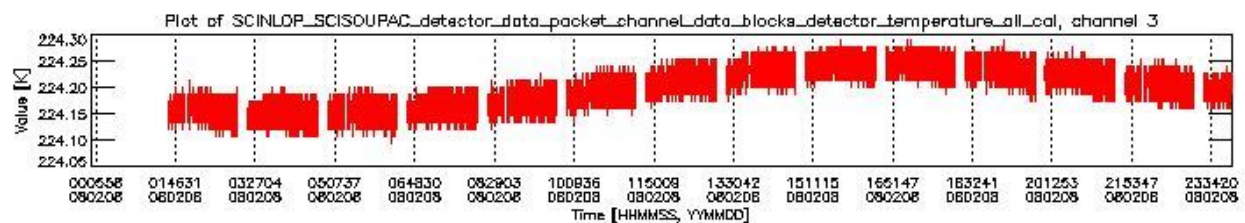
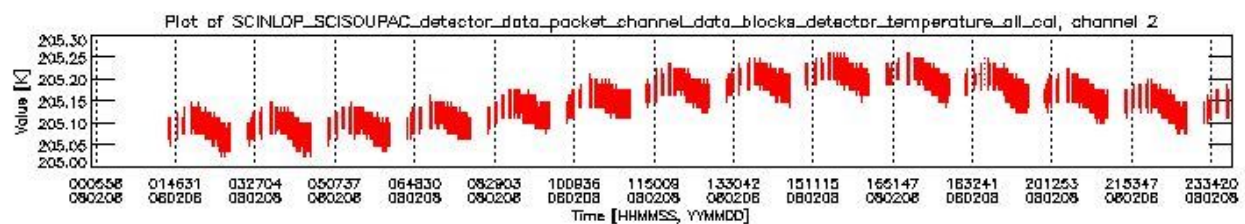
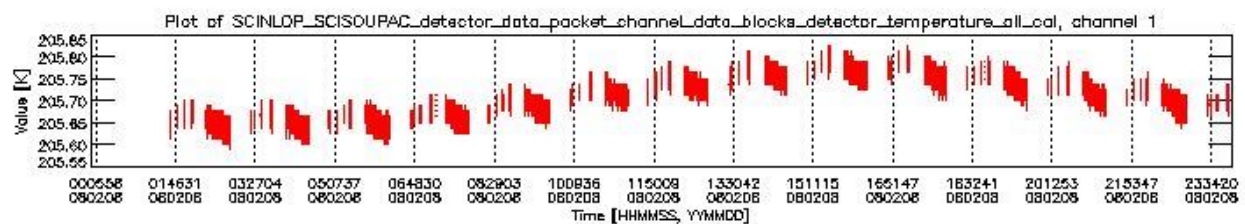
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080208_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20080208_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20080208_3.PNG

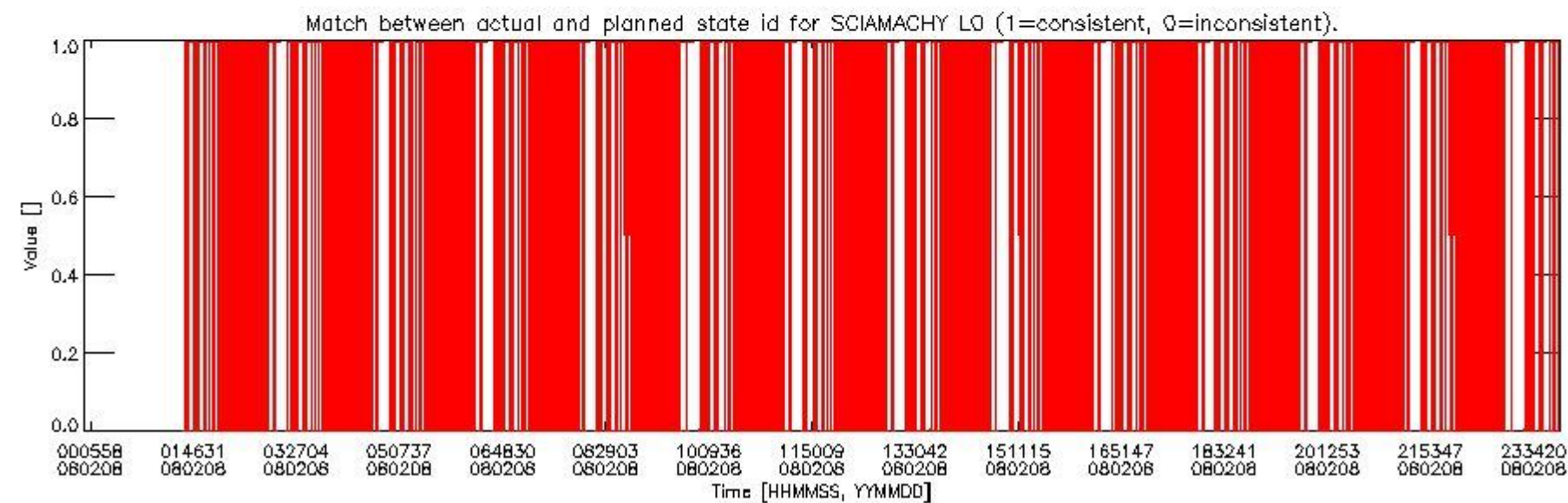
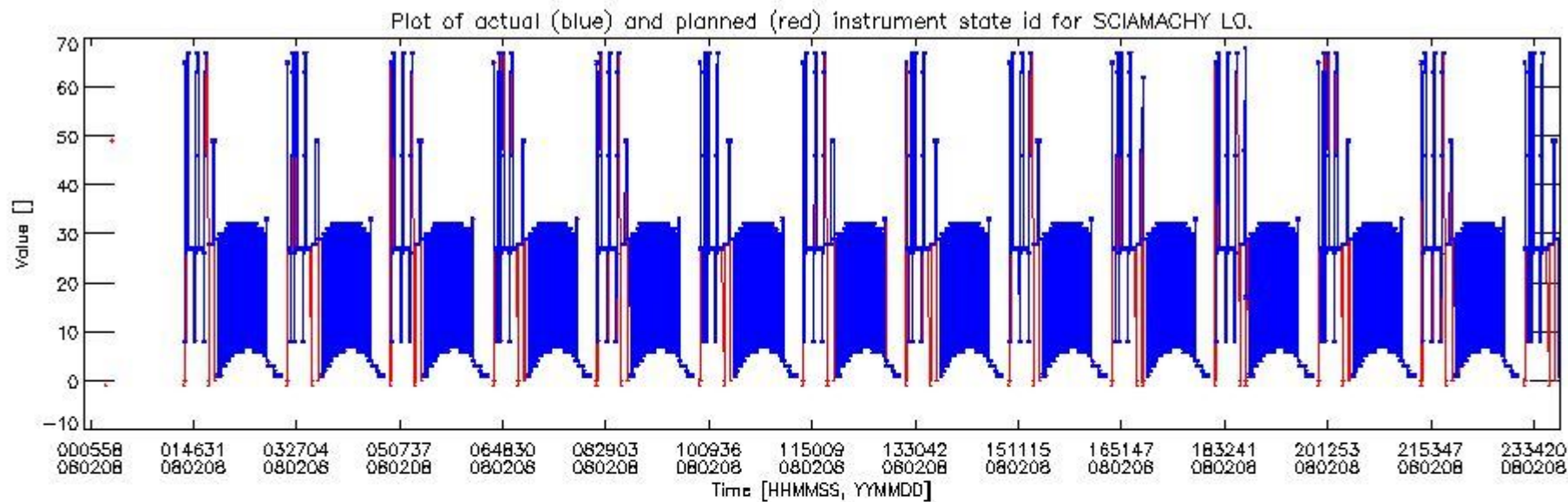


0.3 State monitoring

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: **40995**

#	Actual time	Actual value	Planned time	Planned value
0	08FEB2008 01:37:29.620374	65	08FEB2008 01:37:29.620374	0
1	08FEB2008 01:37:30.245355	65	08FEB2008 01:37:30.245355	0
2	08FEB2008 01:37:30.745372	65	08FEB2008 01:37:30.745372	0
3	08FEB2008 01:37:31.245350	65	08FEB2008 01:37:31.245350	0
4	08FEB2008 01:37:31.745367	65	08FEB2008 01:37:31.745367	0
5	08FEB2008 01:37:32.245384	65	08FEB2008 01:37:32.245384	0
6	08FEB2008 01:37:32.745362	65	08FEB2008 01:37:32.745362	0
7	08FEB2008 01:37:33.245379	65	08FEB2008 01:37:33.245379	0
8	08FEB2008 01:37:33.745356	65	08FEB2008 01:37:33.745356	0
9	08FEB2008 01:37:34.245374	65	08FEB2008 01:37:34.245374	0
10	08FEB2008 01:37:34.620387	65	08FEB2008 01:37:34.620387	0
11	08FEB2008 01:37:34.745351	65	08FEB2008 01:37:34.745351	0
12	08FEB2008 01:37:35.245368	65	08FEB2008 01:37:35.245368	0
13	08FEB2008 01:37:35.745386	65	08FEB2008 01:37:35.745386	0
14	08FEB2008 01:37:36.245363	65	08FEB2008 01:37:36.245363	0
15	08FEB2008 01:37:36.745380	65	08FEB2008 01:37:36.745380	0
16	08FEB2008 01:38:13.378173	8	08FEB2008 01:38:13.378173	0
17	08FEB2008 01:38:14.503172	8	08FEB2008 01:38:14.503172	0
18	08FEB2008 01:38:15.503166	8	08FEB2008 01:38:15.503166	0
19	08FEB2008 01:38:16.503201	8	08FEB2008 01:38:16.503201	0
...

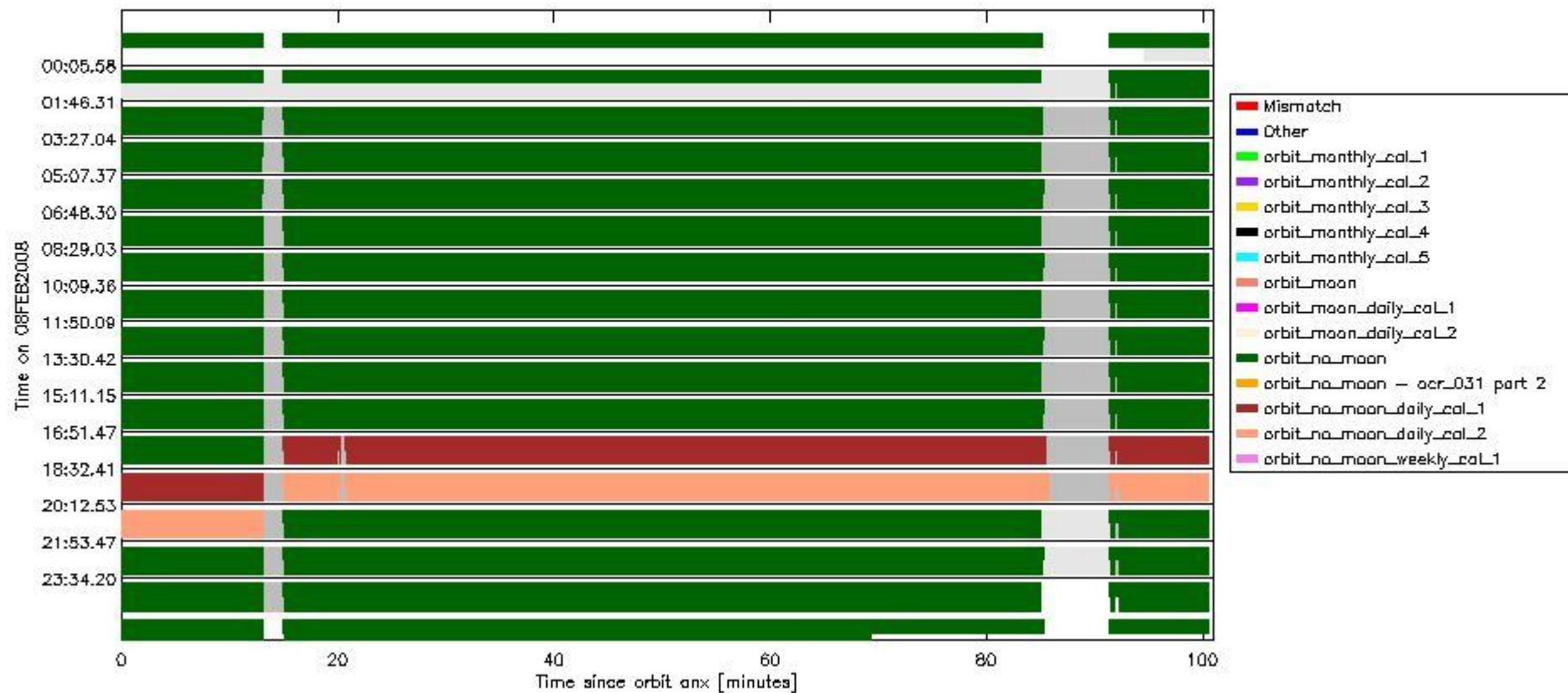


sciamachy_daily_report_level0_KSPT_L0_4303_N_20080208_5.PNG

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 08FEB2008.
 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_20080208_6.PNG

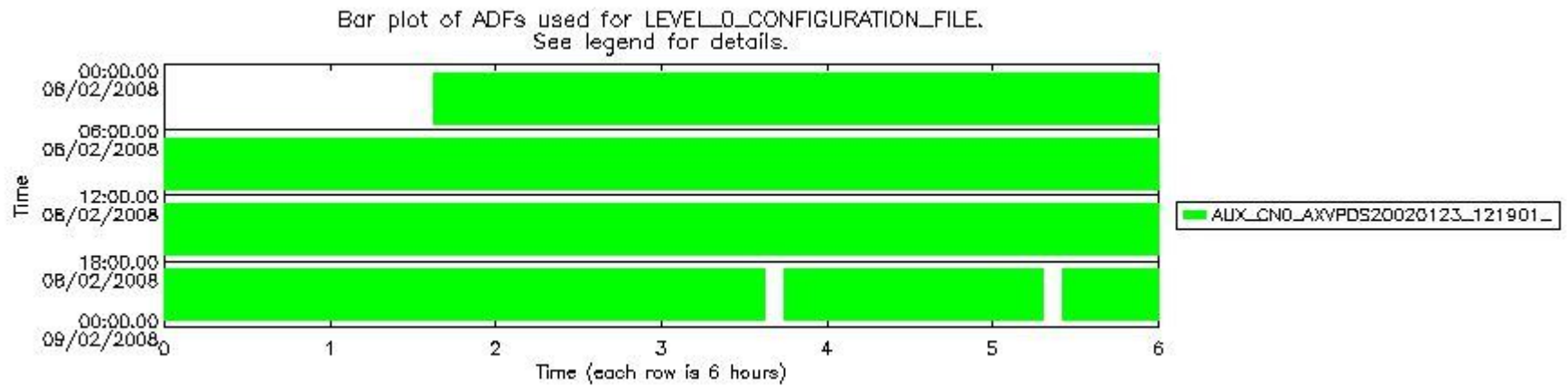
0.4 ADF monitoring

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

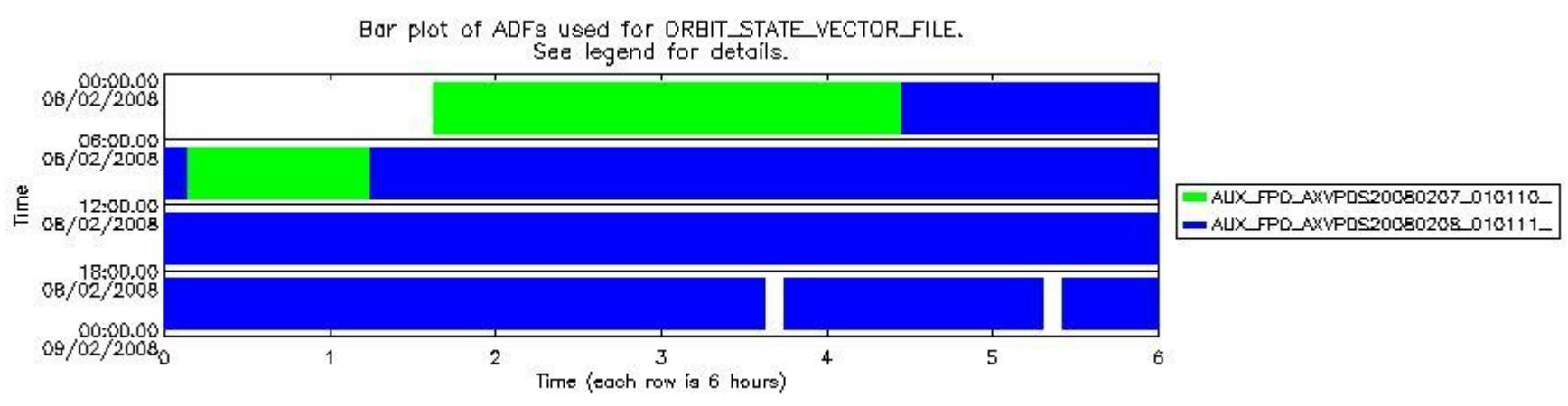
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

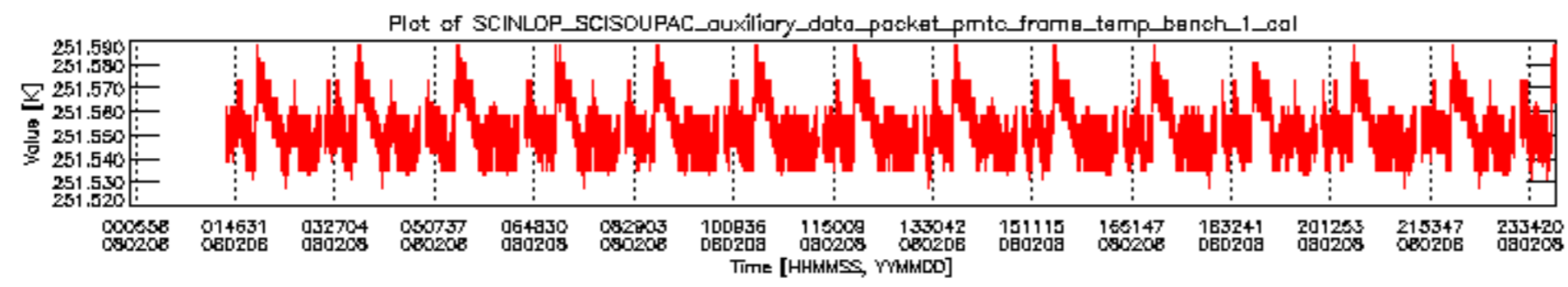
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20080207_010110_20080206_193546_20080216_210159
2	AUX_FPO_AXVPDS20080208_010111_20080207_190409_20080217_203021

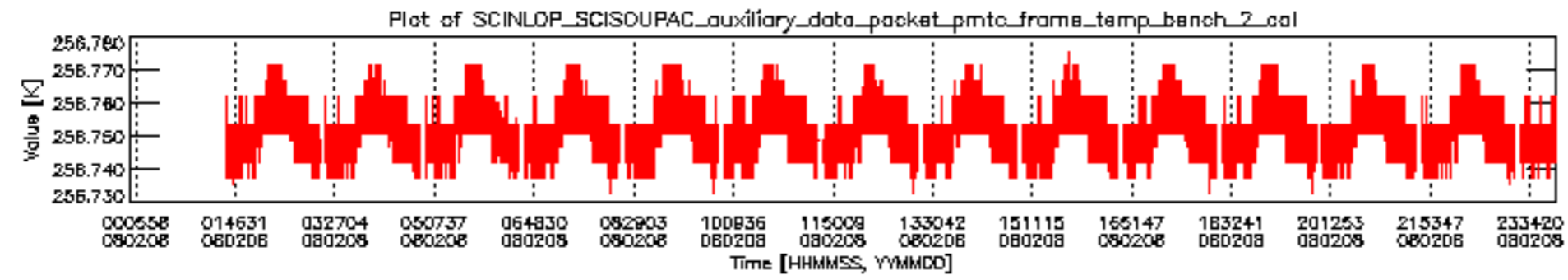


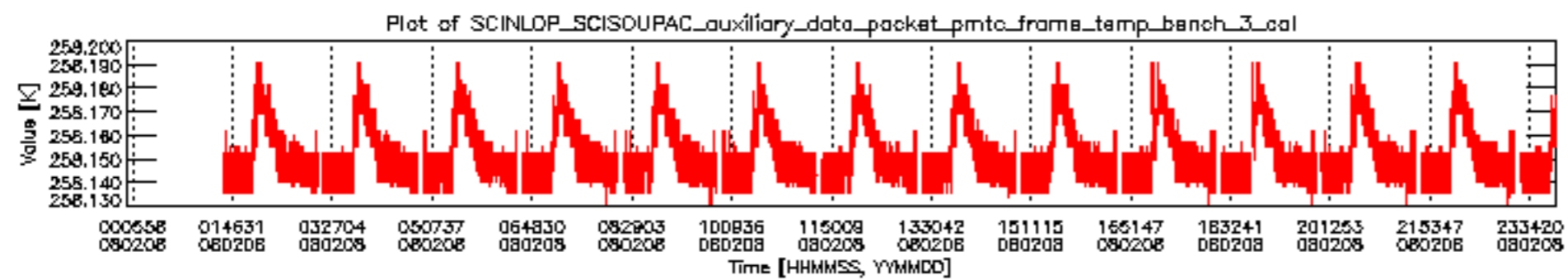
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080208_7.PNG

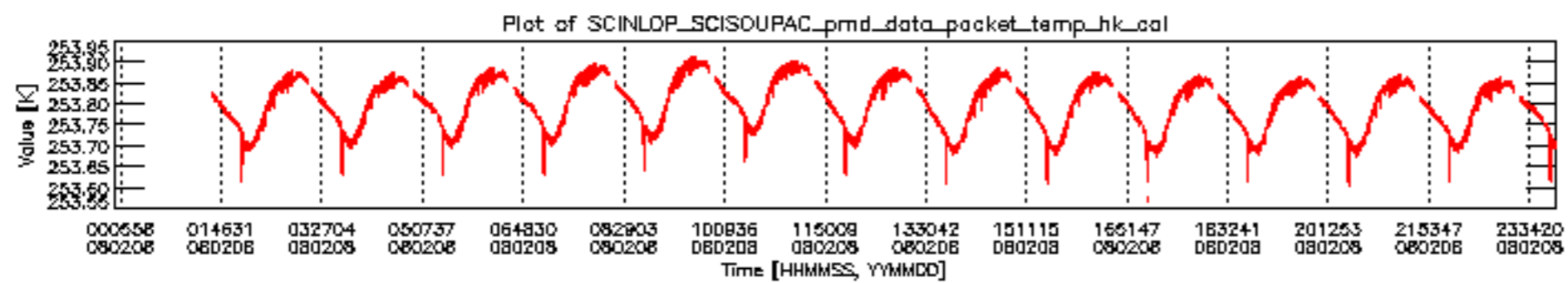


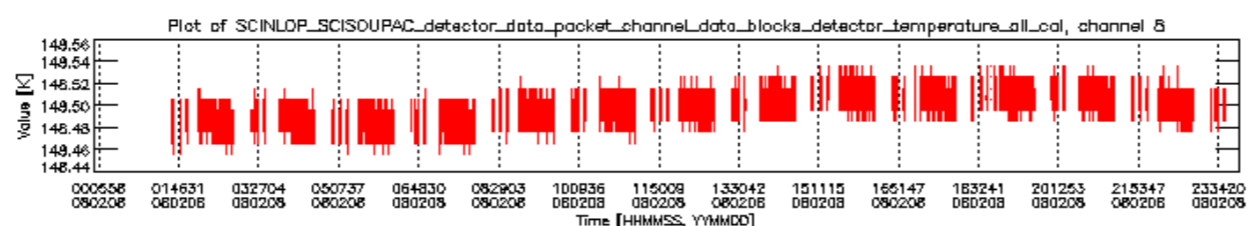
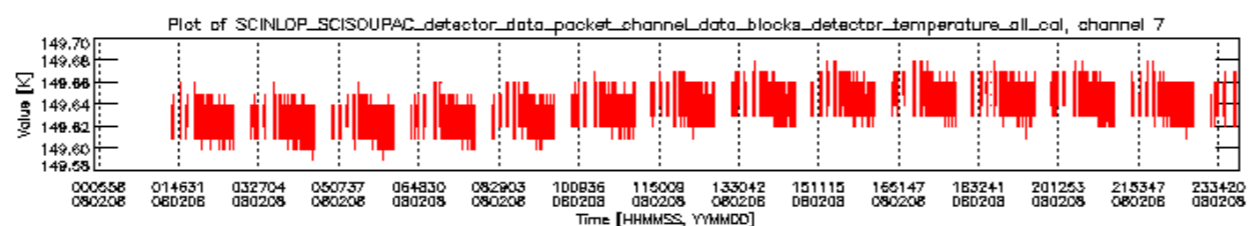
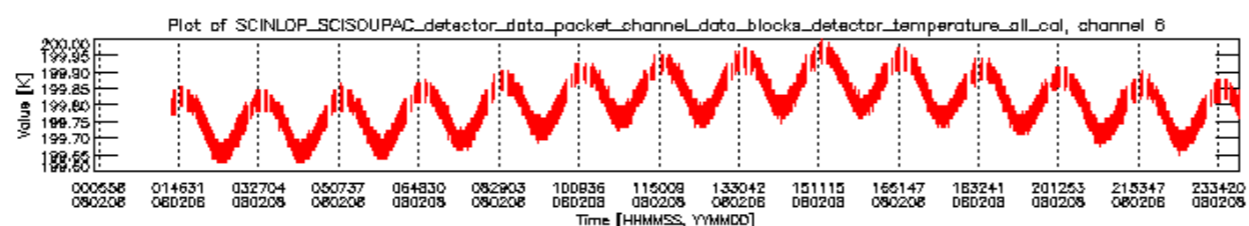
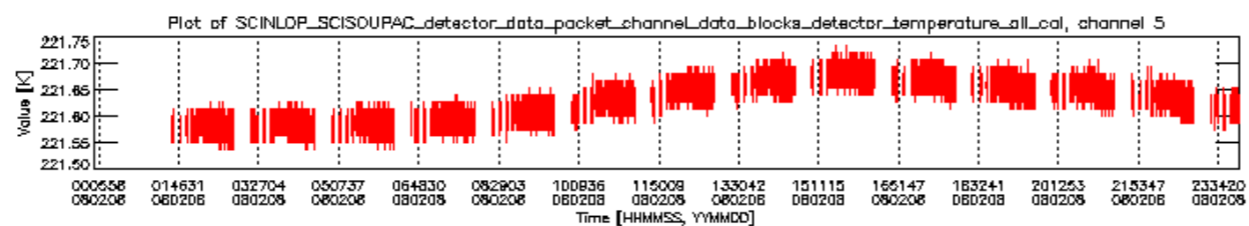
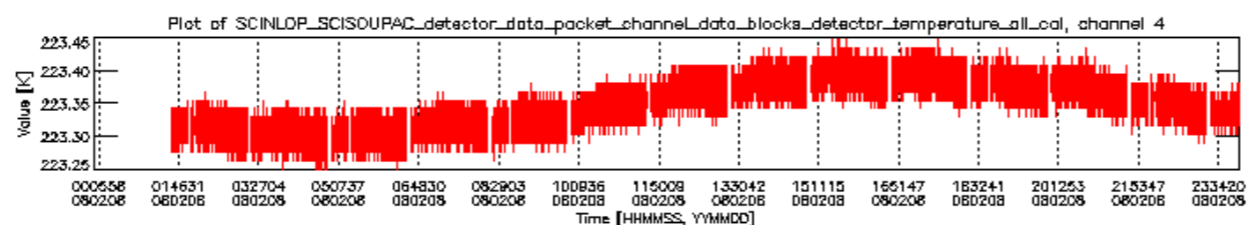
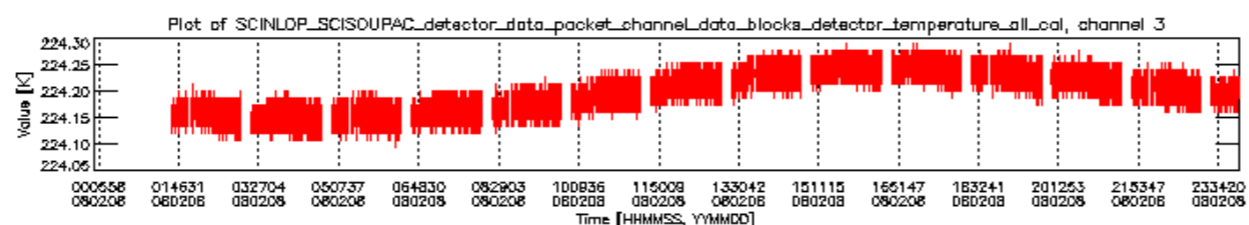
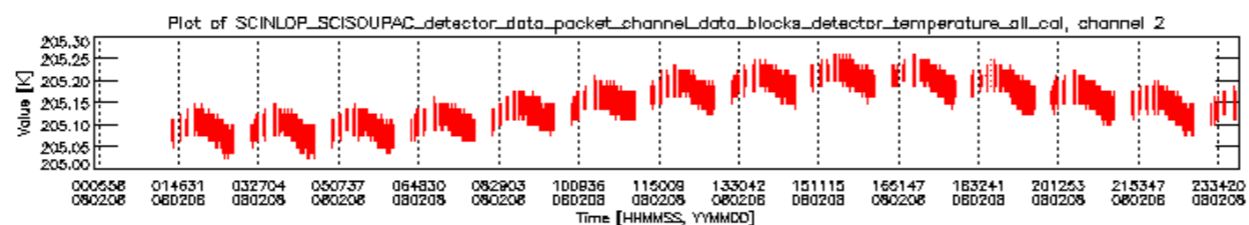
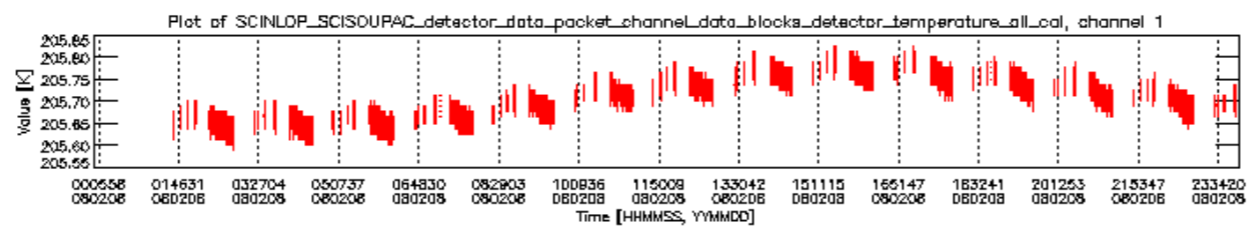
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080208_8.PNG



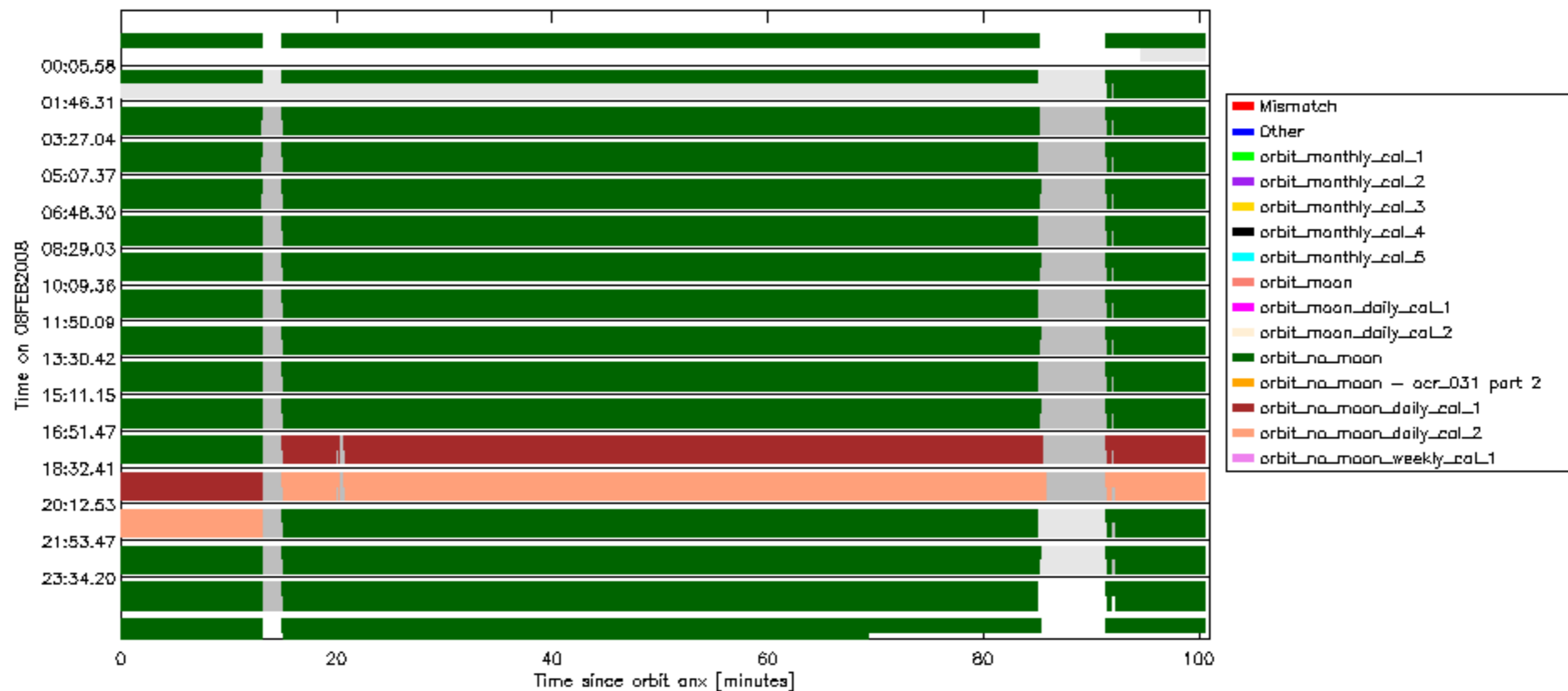


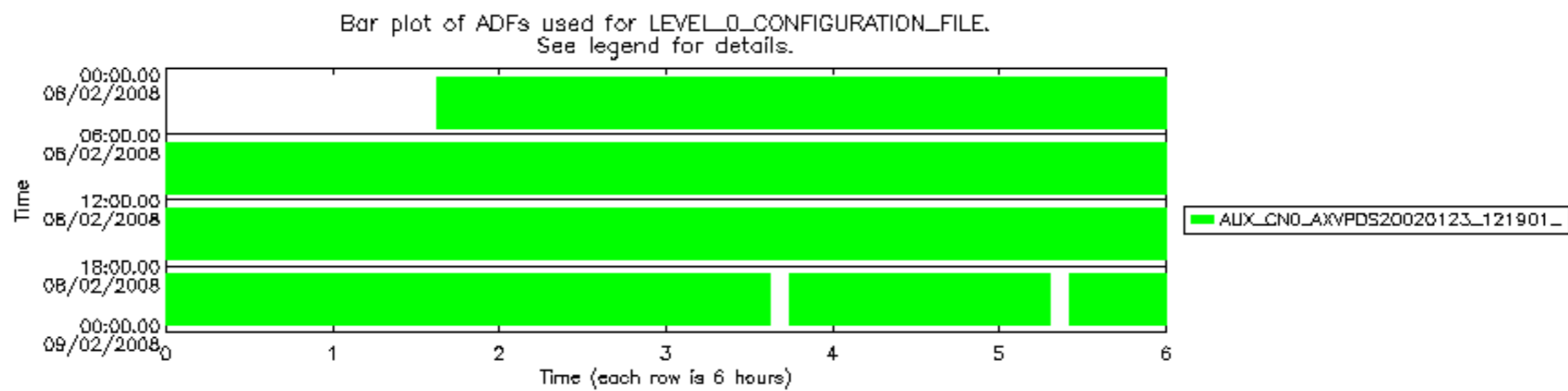






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
 Each row indicates an orbit. A light gray colour indicates the time span of 08FEB2008.
 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
 The remaining colours indicate planned activities and/or special measurements.
 Planned activities are shown on the top half of each row, special measurements on the bottom half.





Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.
See legend for details.

