

0. SCIAMACHY Daily Report for Level 0 products

[0.1 General Info](#)

[0.2 Product Quality Indicators](#)

[0.3 State monitoring](#)

[0.4 ADF monitoring](#)

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	30APR2011 03:06:11
Data source version	KSPT_L0/4504-N
Processing scope for products	23APR2011 00:00:00 to 24APR2011 00:00:00
Start time of first product within scope	23APR2011 01:18:29
Stop time of last product within scope	24APR2011 00:44:33
Total number of Level 0 products	14
Number of Level 0 products with errors	2

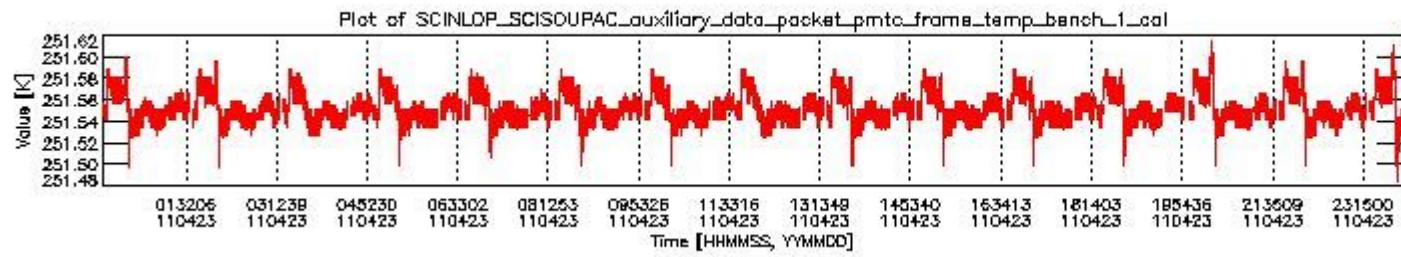
0.1.2 Summary per product

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

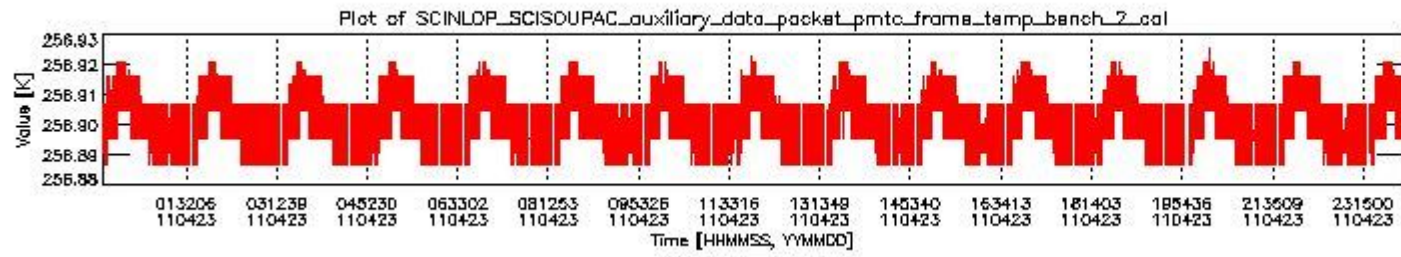
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110423_011829_000103763101_00390_47818_2986.N1	23APR2011 01:18:29	23APR2011 04:11:25	0	0	0	0	0
1	SCI_NL__OPNPDE20110423_041031_000061913101_00392_47820_2987.N1	23APR2011 04:10:31	23APR2011 05:53:42	0	0	0	0	0
2	SCI_NL__OPNPDE20110423_055342_000061363101_00393_47821_2988.N1	23APR2011 05:53:42	23APR2011 07:35:58	0	0	0	0	0
3	SCI_NL__OPNPDK20110423_073504_000039133101_00394_47822_4421.N1	23APR2011 07:35:04	23APR2011 08:40:17	1	1	0	0	0
4	SCI_NL__OPNPDK20110423_083923_000061363101_00395_47823_4422.N1	23APR2011 08:39:23	23APR2011 10:21:39	0	0	0	0	0
5	SCI_NL__OPNPDK20110423_102139_000059453101_00396_47824_4423.N1	23APR2011 10:21:39	23APR2011 12:00:44	0	0	0	0	0
6	SCI_NL__OPNPDK20110423_115950_000059593101_00397_47825_4424.N1	23APR2011 11:59:50	23APR2011 13:39:09	0	0	0	0	0
7	SCI_NL__OPNPDK20110423_133909_000058773101_00398_47826_4425.N1	23APR2011 13:39:09	23APR2011 15:17:06	0	0	0	0	0
8	SCI_NL__OPNPDK20110423_151706_000059053101_00399_47827_4426.N1	23APR2011 15:17:06	23APR2011 16:55:31	0	0	0	0	0
9	SCI_NL__OPNPDK20110423_165422_000058343101_00400_47828_4427.N1	23APR2011 16:54:22	23APR2011 18:31:36	0	0	0	0	0
10	SCI_NL__OPNPDK20110423_183042_000060143101_00401_47829_4428.N1	23APR2011 18:30:42	23APR2011 20:10:56	1	1	0	0	0
11	SCI_NL__OPNPDE20110423_200907_000044083101_00402_47830_2989.N1	23APR2011 20:09:07	23APR2011 21:22:36	0	0	0	0	0
12	SCI_NL__OPNPDE20110423_212112_000061853101_00402_47830_2990.N1	23APR2011 21:21:12	23APR2011 23:04:17	0	0	0	0	0
13	SCI_NL__OPNPDE20110423_230333_000060603101_00403_47831_2991.N1	23APR2011 23:03:33	24APR2011 00:44:33	0	0	0	0	0

0.2 Product Quality Indicators

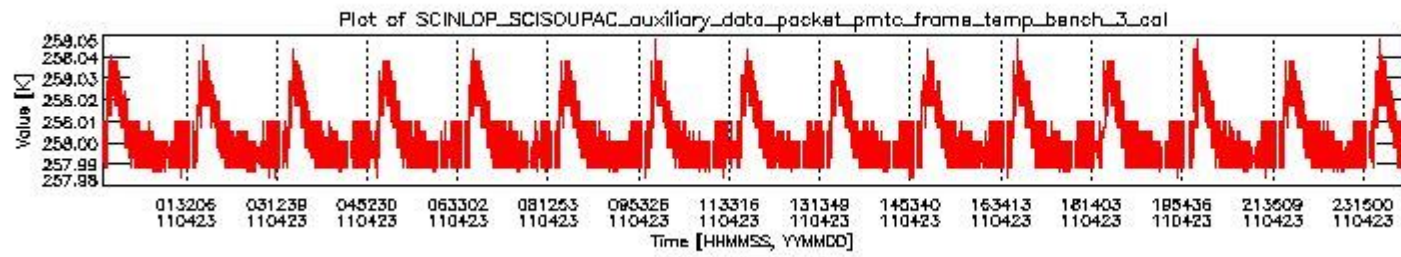
This section shows information about product quality, currently temperatures.



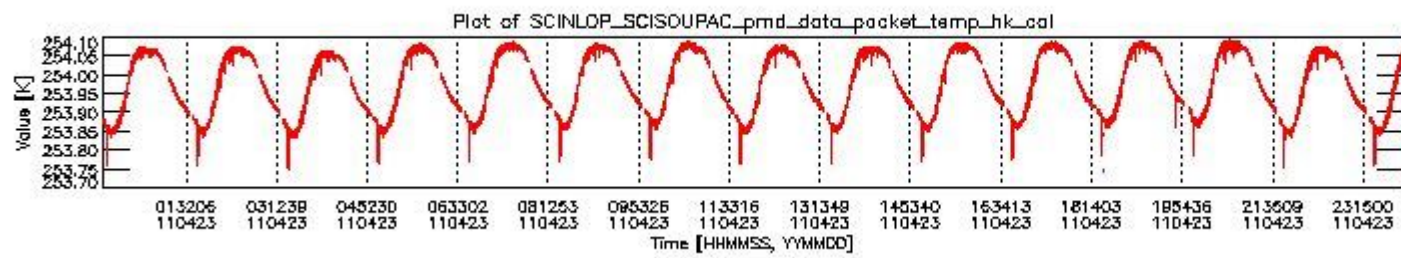
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110423_0.PNG



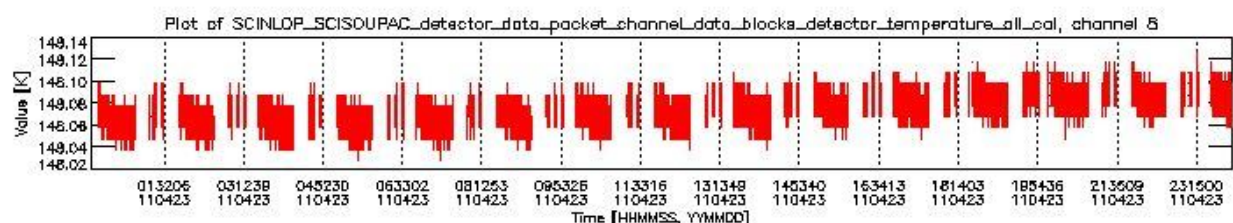
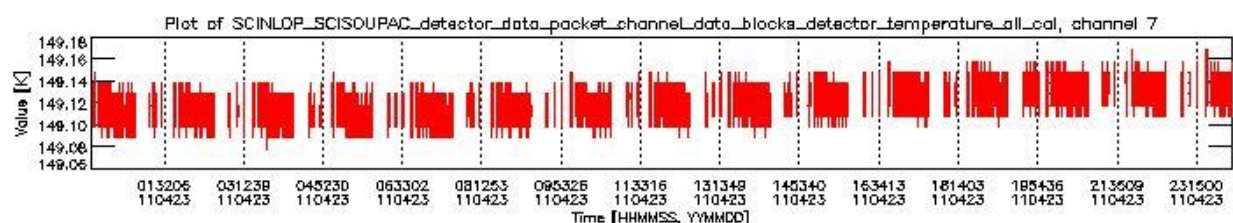
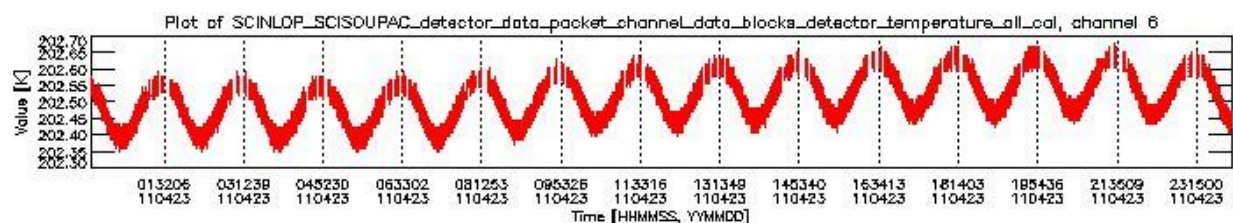
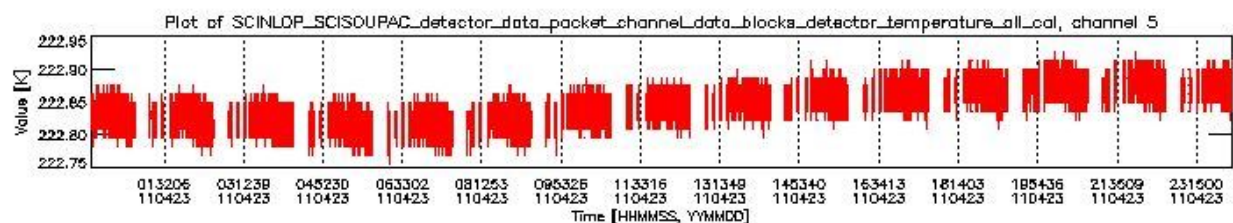
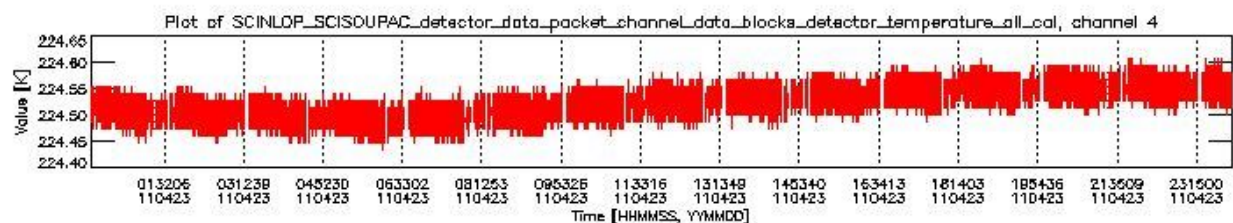
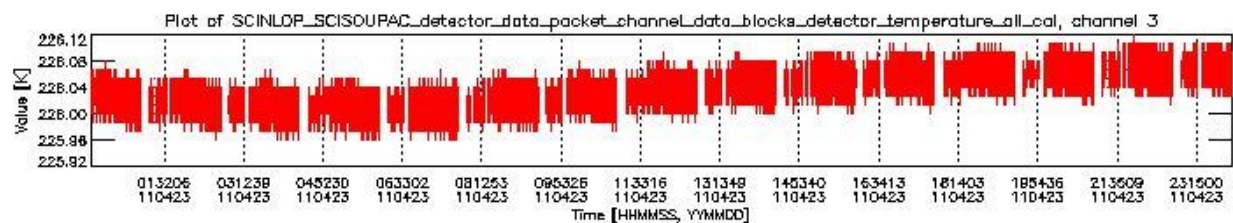
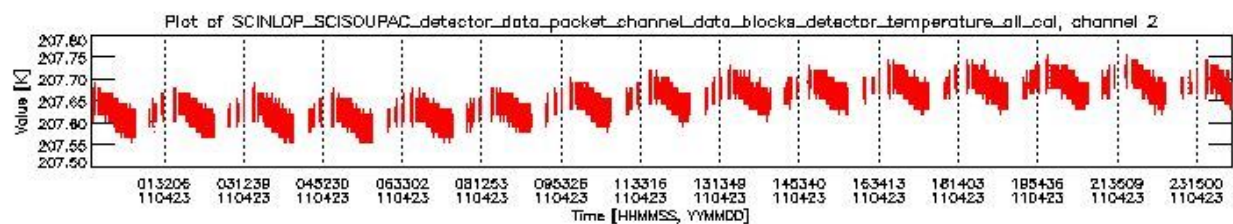
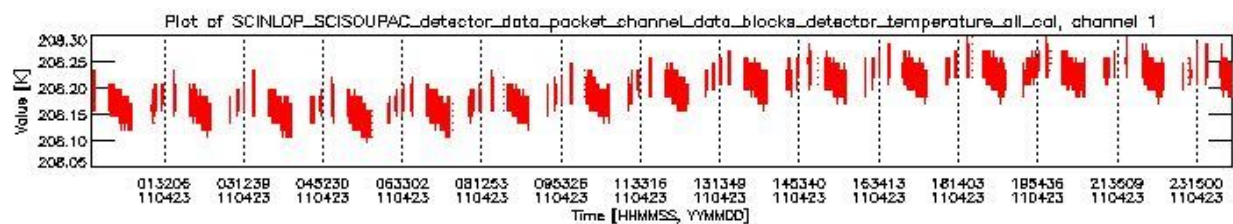
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110423_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20110423_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20110423_3.PNG

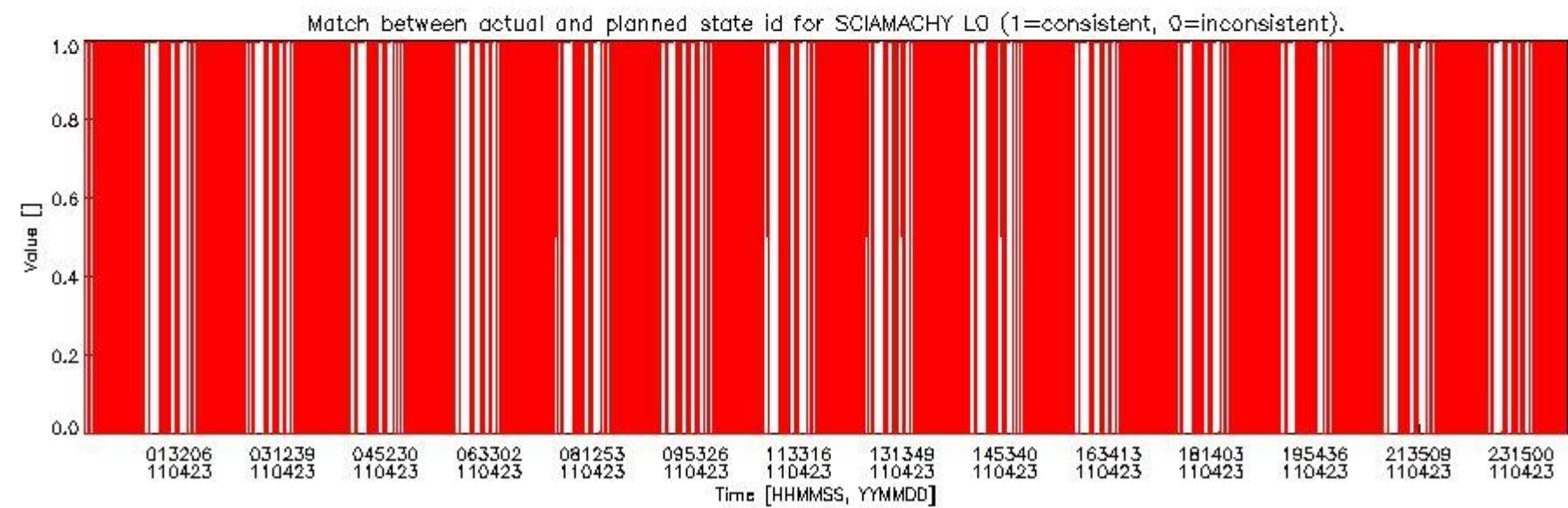
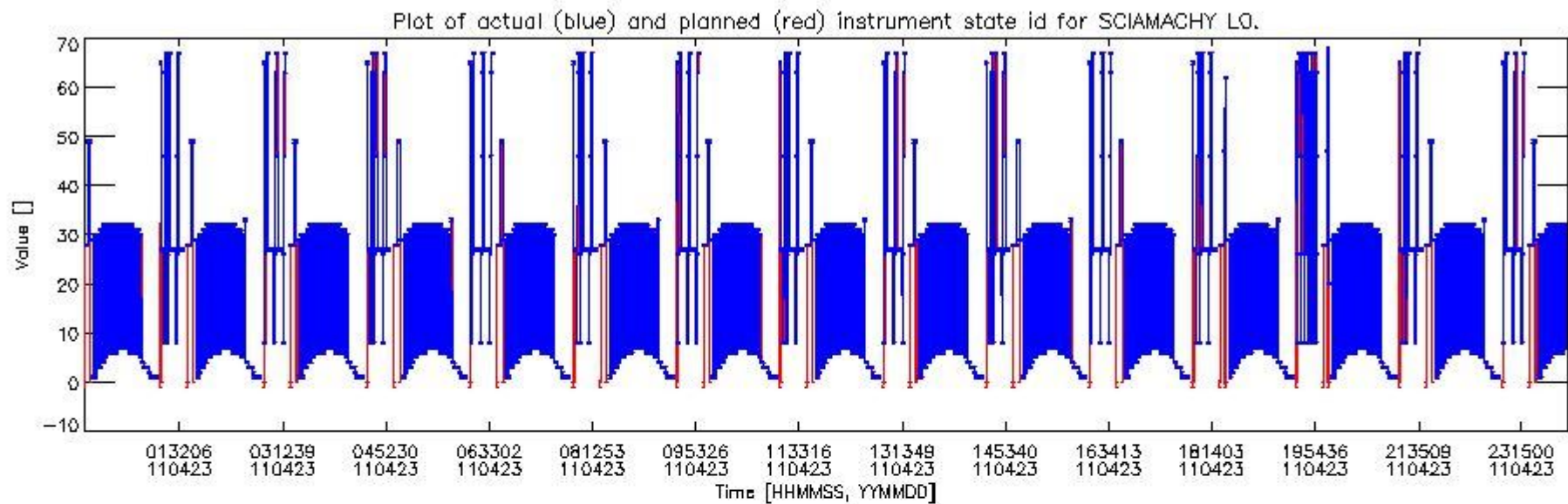


0.3 State monitoring

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: **65108**

#	Actual time	Actual value	Planned time	Planned value
0	23APR2011 00:03:00.547784	49	23APR2011 00:03:00.547784	28
1	23APR2011 00:03:00.735284	49	23APR2011 00:03:00.735284	28
2	23APR2011 00:03:00.797784	49	23APR2011 00:03:00.797784	28
3	23APR2011 00:03:00.860284	49	23APR2011 00:03:00.860284	28
4	23APR2011 00:03:00.922784	49	23APR2011 00:03:00.922784	28
5	23APR2011 00:03:00.985284	49	23APR2011 00:03:00.985284	28
6	23APR2011 00:03:01.047784	49	23APR2011 00:03:01.047784	28
7	23APR2011 00:03:01.110284	49	23APR2011 00:03:01.110284	28
8	23APR2011 00:03:01.172784	49	23APR2011 00:03:01.172784	28
9	23APR2011 00:03:01.235284	49	23APR2011 00:03:01.235284	28
10	23APR2011 00:03:01.297784	49	23APR2011 00:03:01.297784	28
11	23APR2011 00:03:01.360284	49	23APR2011 00:03:01.360284	28
12	23APR2011 00:03:01.422784	49	23APR2011 00:03:01.422784	28
13	23APR2011 00:03:01.485284	49	23APR2011 00:03:01.485284	28
14	23APR2011 00:03:01.547784	49	23APR2011 00:03:01.547784	28
15	23APR2011 00:03:01.610284	49	23APR2011 00:03:01.610284	28
16	23APR2011 00:03:01.672784	49	23APR2011 00:03:01.672784	28
17	23APR2011 00:03:01.735284	49	23APR2011 00:03:01.735284	28
18	23APR2011 00:03:01.797784	49	23APR2011 00:03:01.797784	28
19	23APR2011 00:03:01.860284	49	23APR2011 00:03:01.860284	28

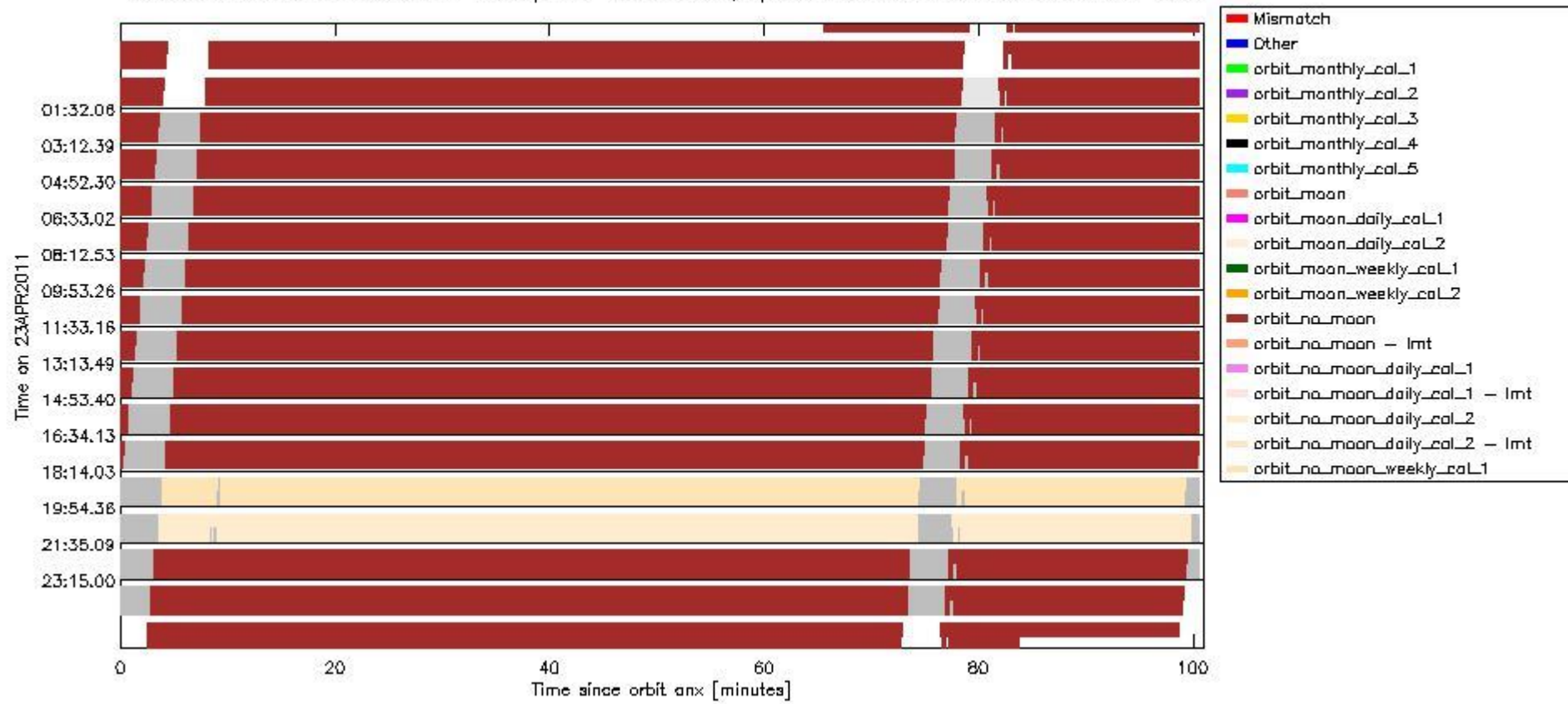


sciamachy_daily_report_level0_KSPT_L0_4504_N_20110423_5.PNG

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 23APR2011.
 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_20110423_6.PNG

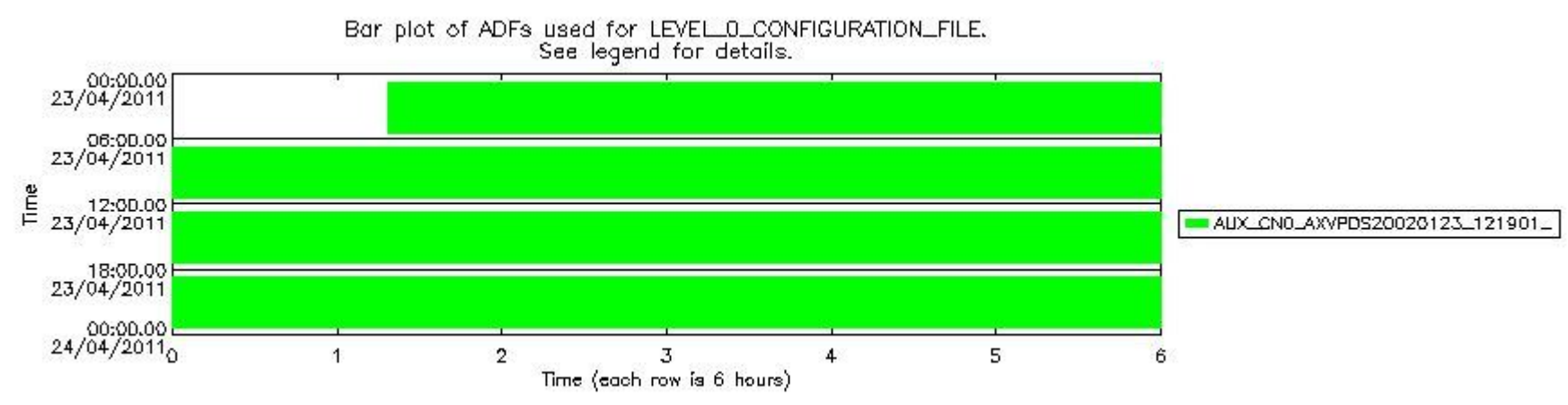
0.4 ADF monitoring

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

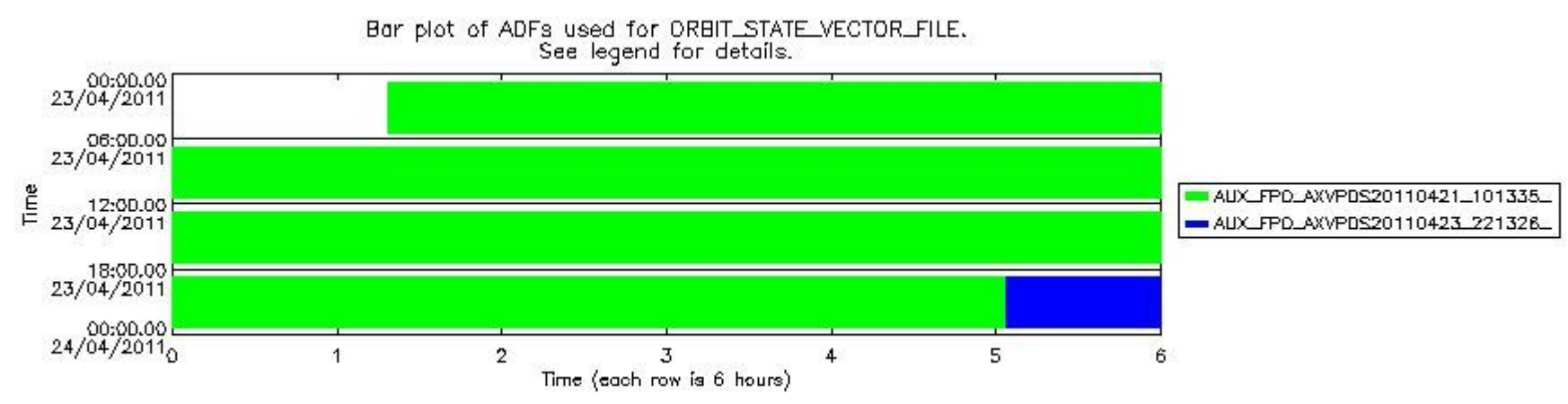
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

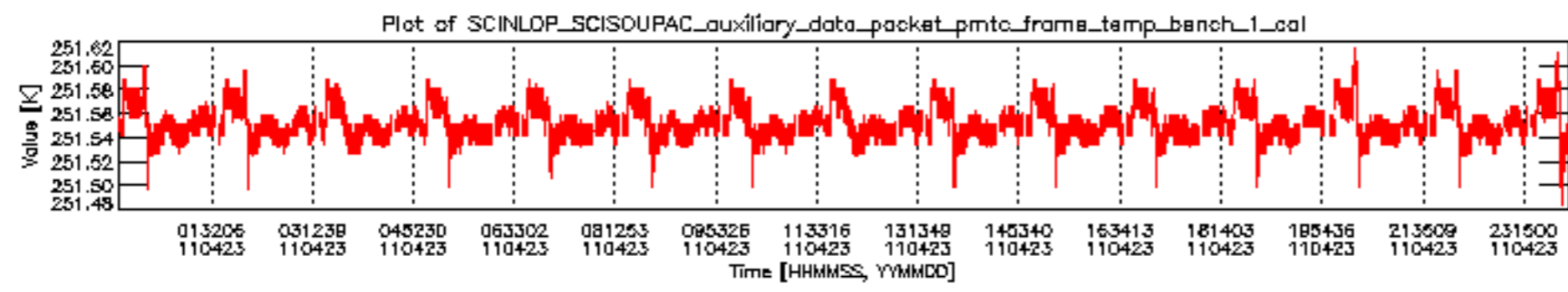
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20110421_101335_20110420_182423_20110430_203811
2	AUX_FPO_AXVPDS20110423_221326_20110422_185109_20110502_210457

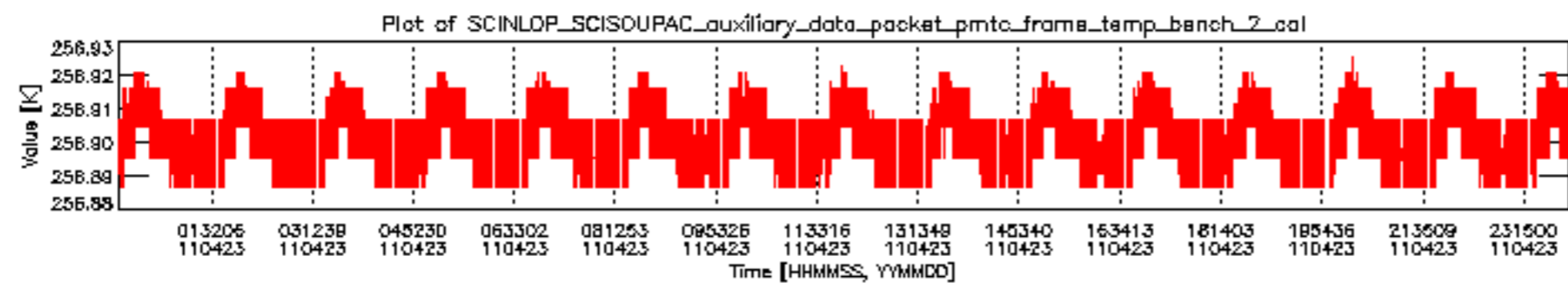


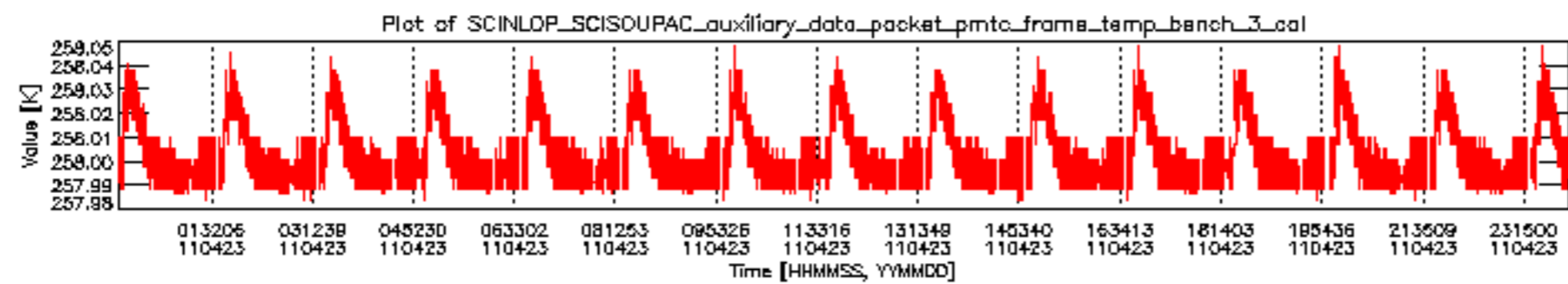
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110423_7.PNG

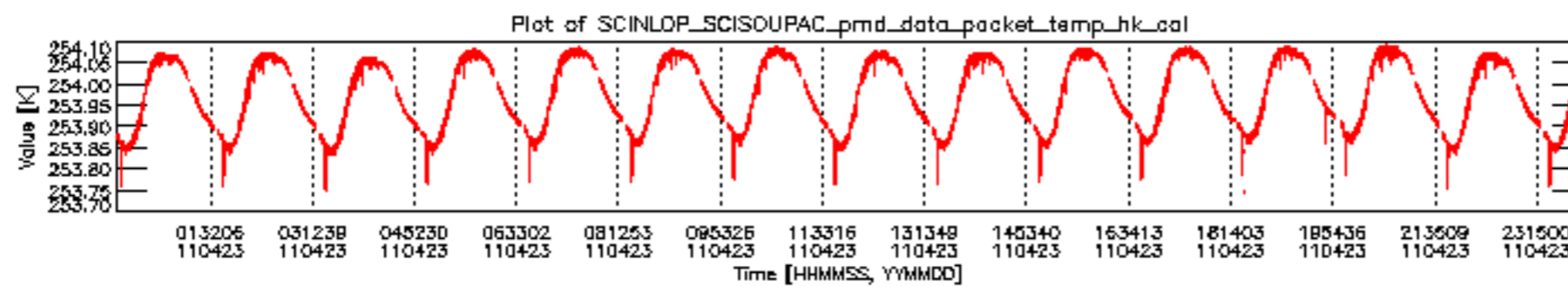


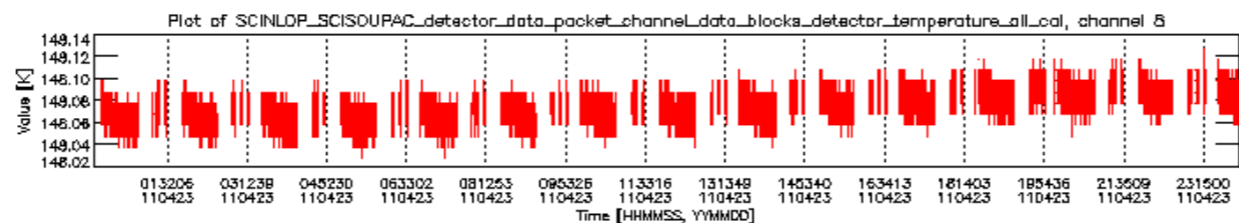
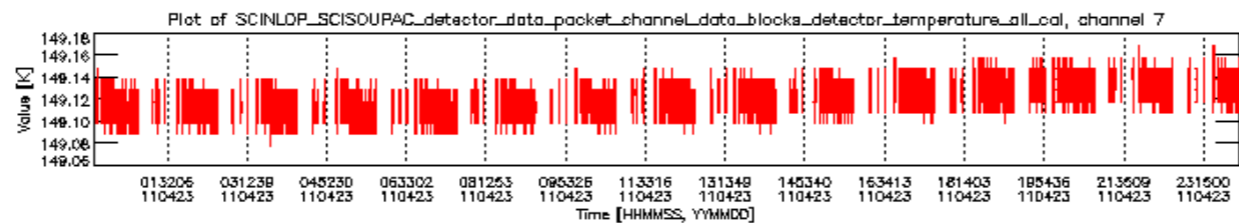
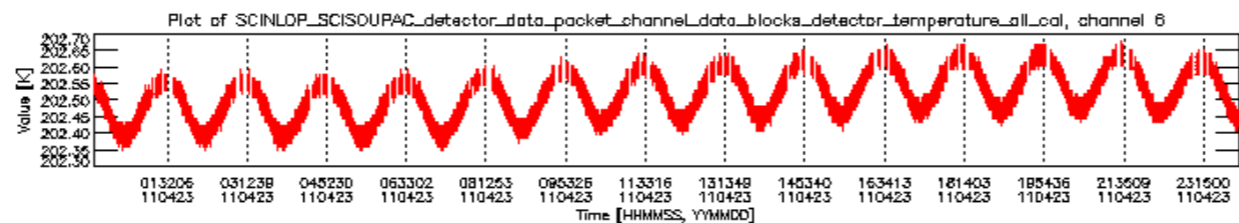
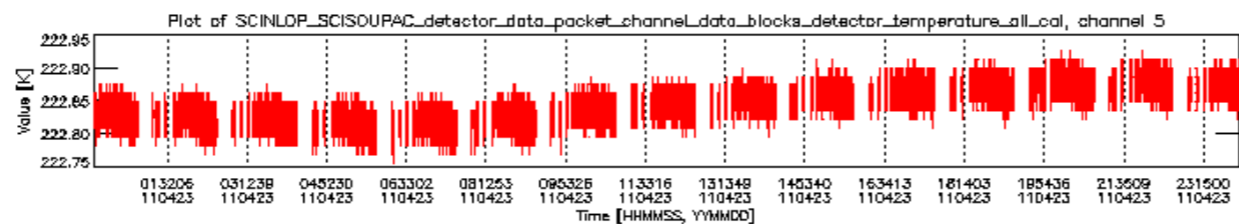
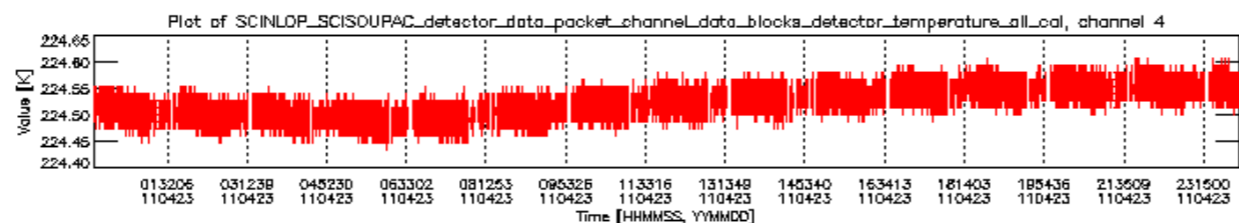
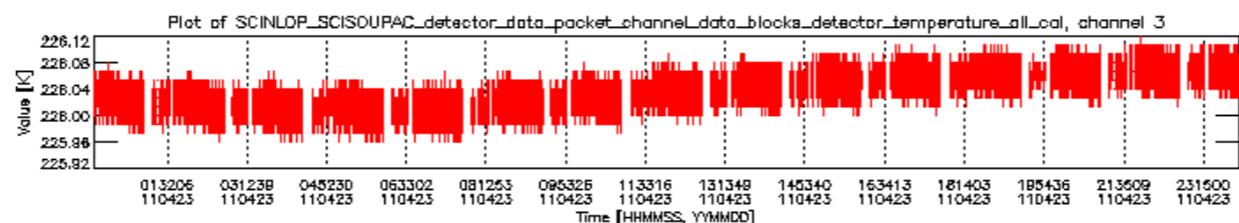
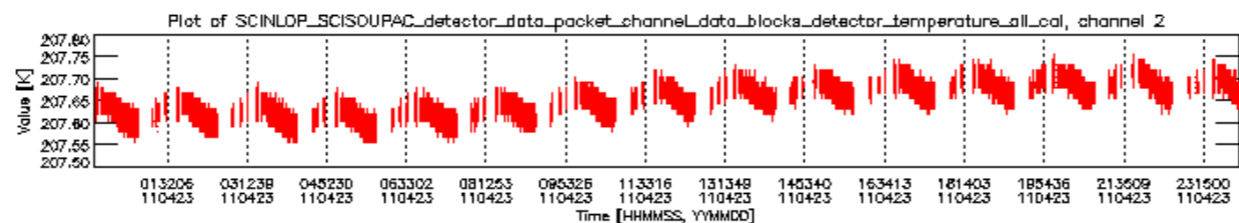
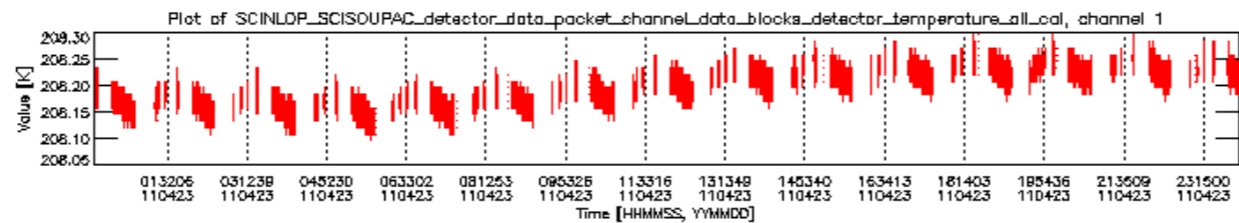
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110423_8.PNG

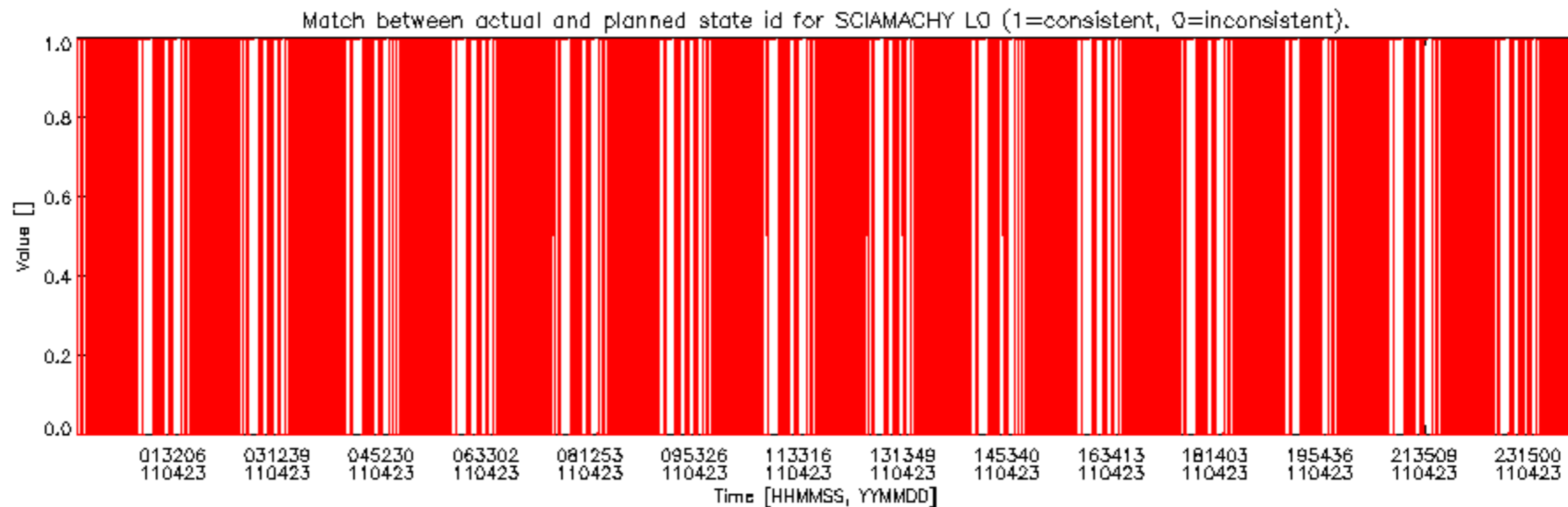
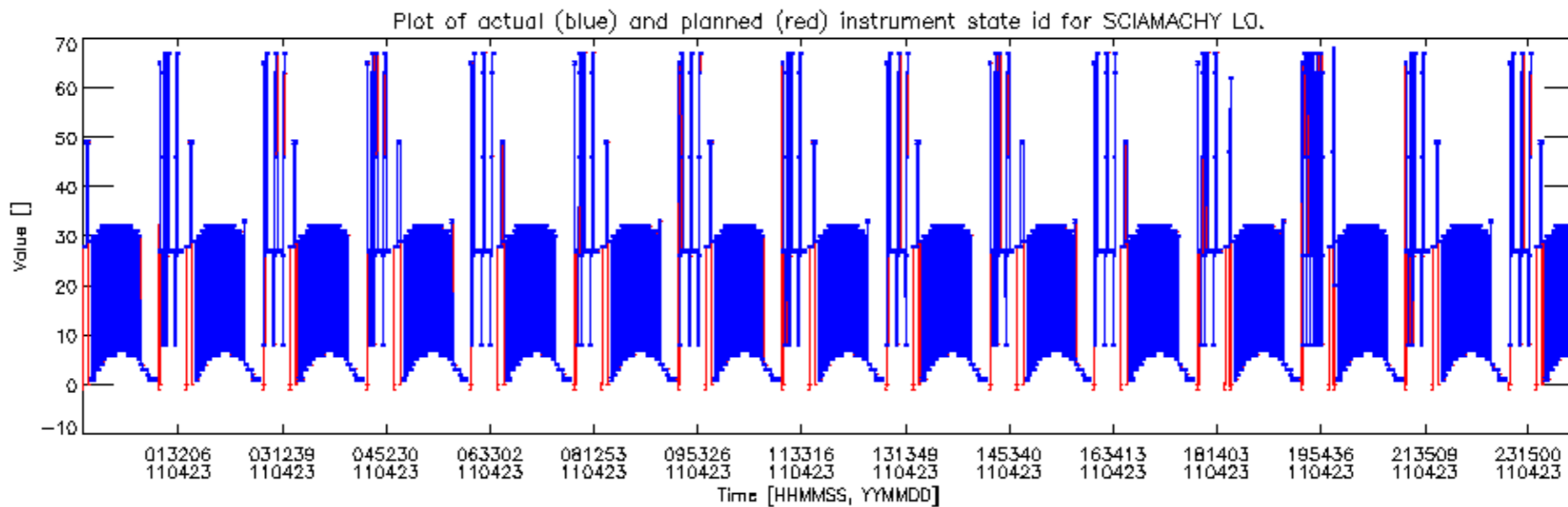












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
 Each row indicates an orbit. A light gray colour indicates the time span of 23APR2011.
 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
 The remaining colours indicate planned activities and/or special measurements.
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

