

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	22APR2011 02:58:38
Data source version	KSPT_L0/4504-N
Processing scope for products	15APR2011 00:00:00 to 16APR2011 00:00:00
Start time of first product within scope	15APR2011 01:13:58
Stop time of last product within scope	15APR2011 20:04:49
Total number of Level 0 products	13
Number of Level 0 products with errors	0

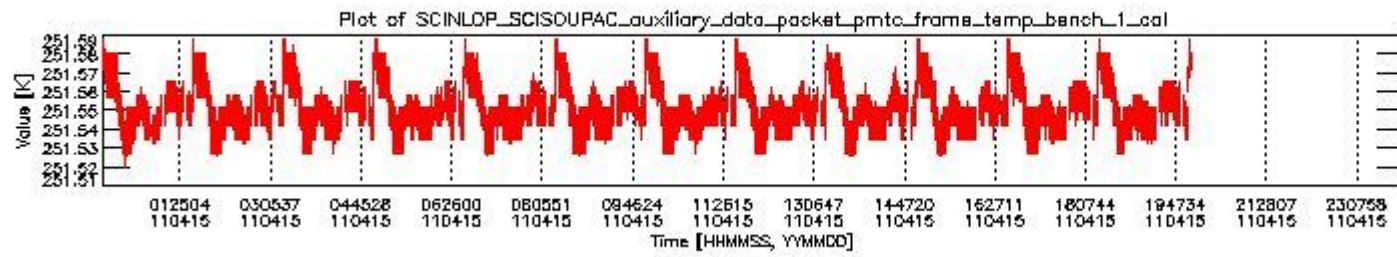
0.1.2 Summary per product

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

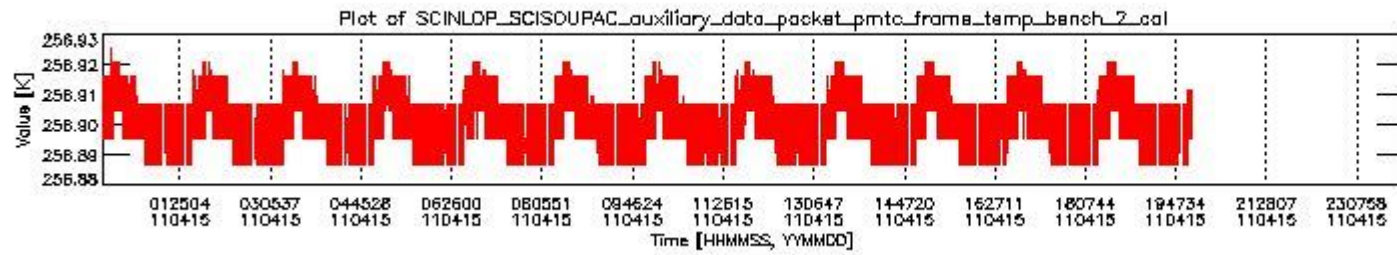
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110415_011358_000046353101_00275_47703_2935.N1	15APR2011 01:13:58	15APR2011 02:31:12	0	0	0	0	0
1	SCI_NL__OPNPDE20110415_023410_000053993101_00276_47704_2936.N1	15APR2011 02:34:10	15APR2011 04:04:09	0	0	0	0	0
2	SCI_NL__OPNPDE20110415_023411_000053993101_00276_47704_2931.N1	15APR2011 02:34:11	15APR2011 04:04:10	0	0	0	0	0
3	SCI_NL__OPNPDE20110415_040409_000062053101_00277_47705_2933.N1	15APR2011 04:04:09	15APR2011 05:47:34	0	0	0	0	0
4	SCI_NL__OPNPDE20110415_054626_000061363101_00278_47706_2934.N1	15APR2011 05:46:26	15APR2011 07:28:42	0	0	0	0	0
5	SCI_NL__OPNPDK20110415_072842_000038733101_00279_47707_4350.N1	15APR2011 07:28:42	15APR2011 08:33:15	0	0	0	0	0
6	SCI_NL__OPNPDK20110415_083315_000061903101_00280_47708_4351.N1	15APR2011 08:33:15	15APR2011 10:16:25	0	0	0	0	0
7	SCI_NL__OPNPDK20110415_101531_000058913101_00281_47709_4352.N1	15APR2011 10:15:31	15APR2011 11:53:42	0	0	0	0	0
8	SCI_NL__OPNPDK20110415_115233_000060143101_00282_47710_4353.N1	15APR2011 11:52:33	15APR2011 13:32:47	0	0	0	0	0
9	SCI_NL__OPNPDK20110415_133247_000058913101_00283_47711_4354.N1	15APR2011 13:32:47	15APR2011 15:10:58	0	0	0	0	0
10	SCI_NL__OPNPDK20110415_150855_000060143101_00284_47712_4355.N1	15APR2011 15:08:55	15APR2011 16:49:09	0	0	0	0	0
11	SCI_NL__OPNPDK20110415_164706_000059723101_00285_47713_4356.N1	15APR2011 16:47:06	15APR2011 18:26:38	0	0	0	0	0
12	SCI_NL__OPNPDK20110415_182530_000059593101_00286_47714_4357.N1	15APR2011 18:25:30	15APR2011 20:04:49	0	0	0	0	0

0.2 Product Quality Indicators

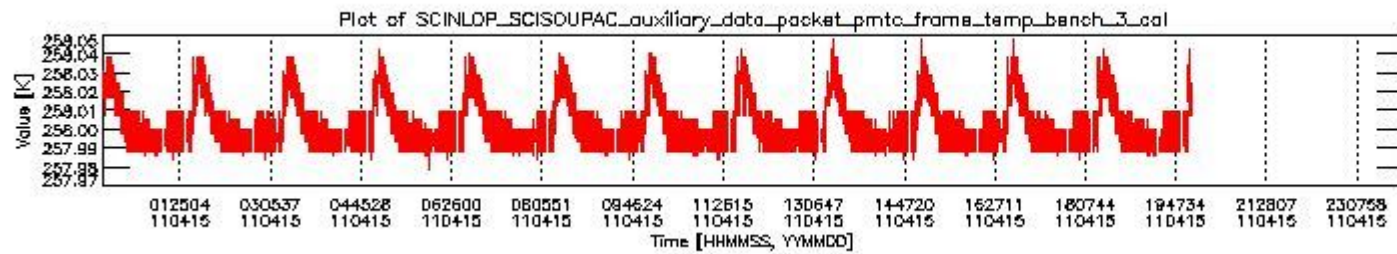
This section shows information about product quality, currently temperatures.



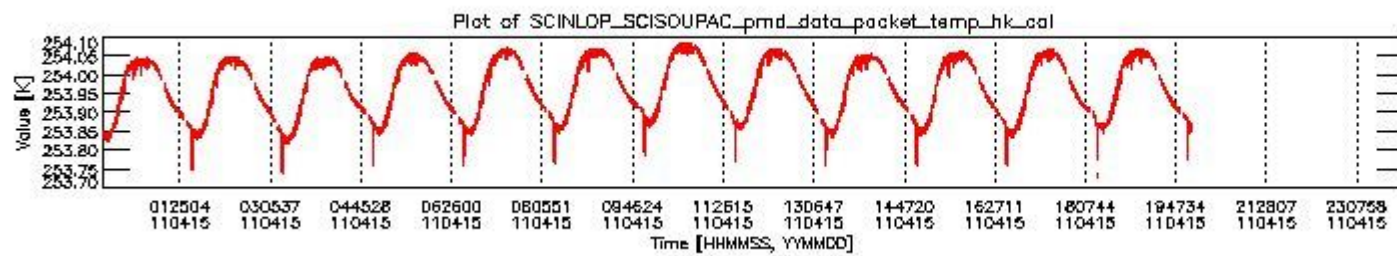
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110415_0.PNG



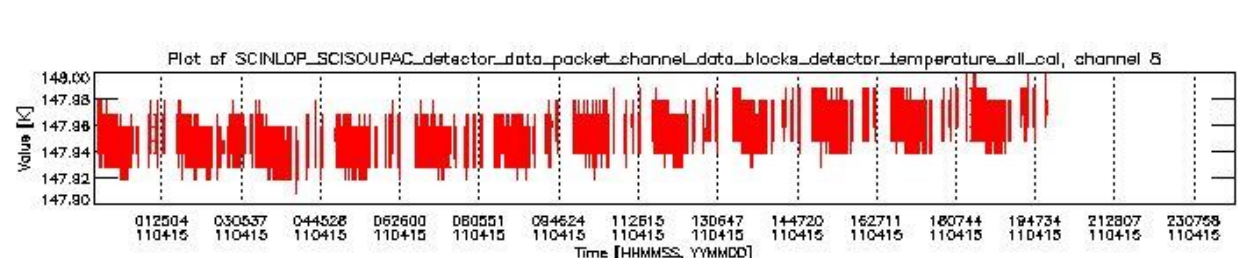
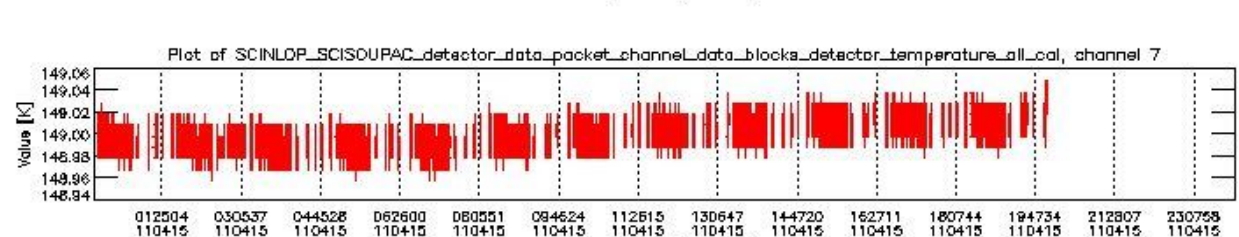
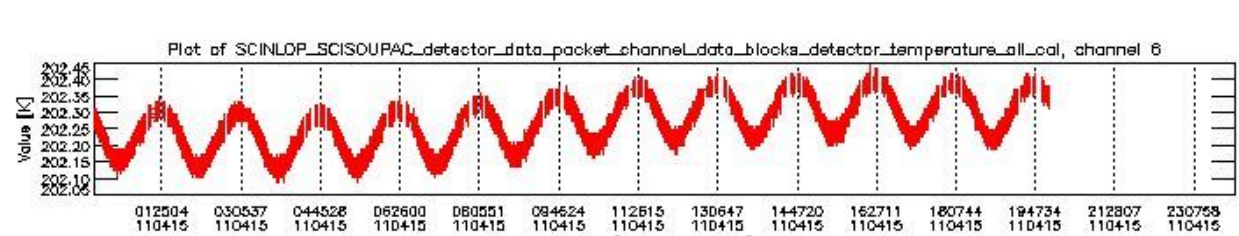
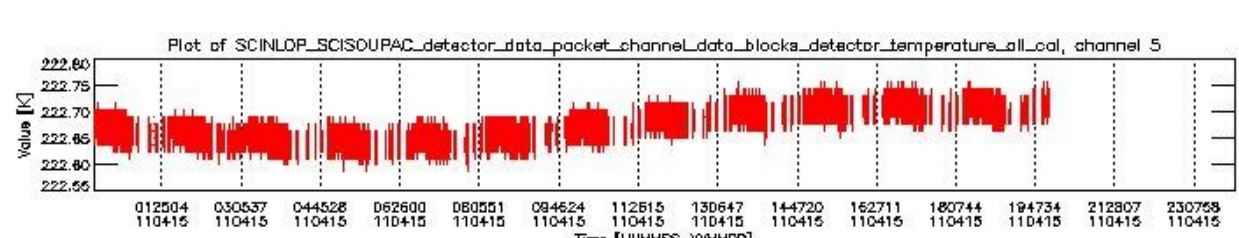
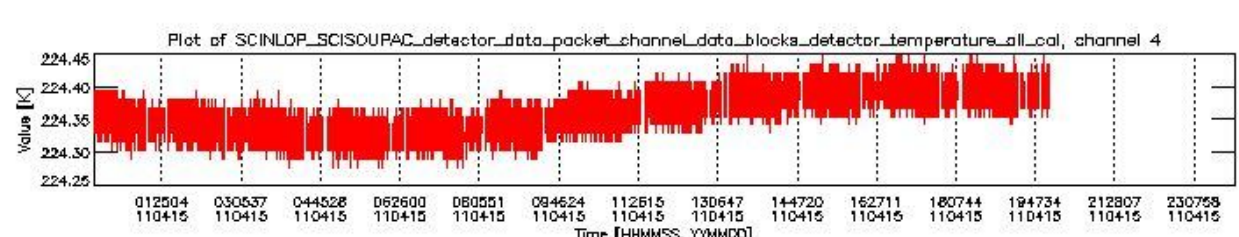
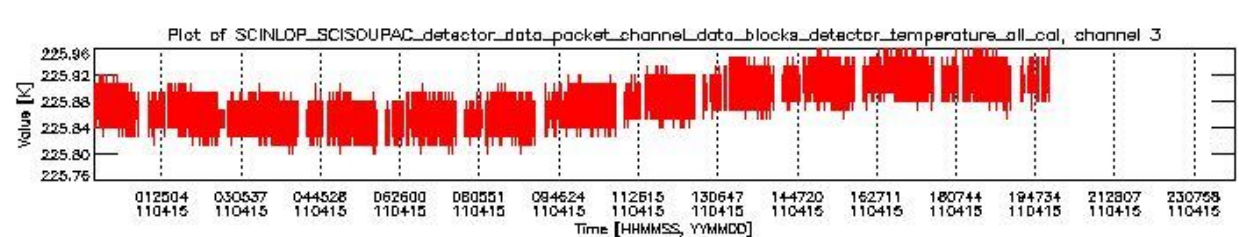
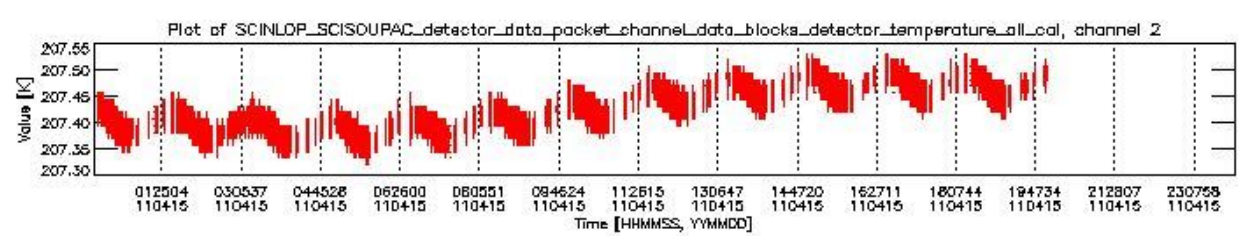
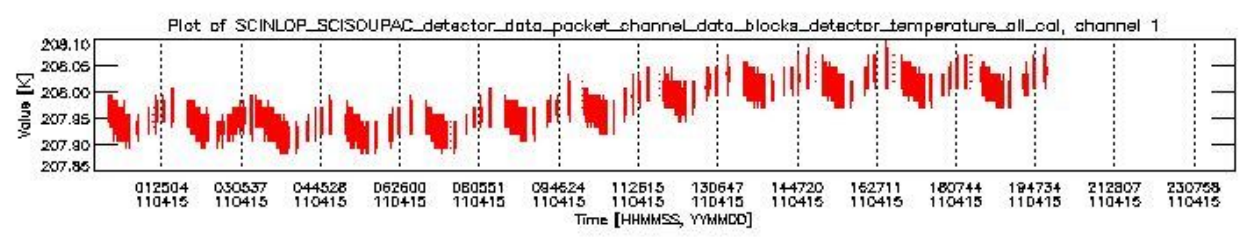
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110415_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20110415_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20110415_3.PNG

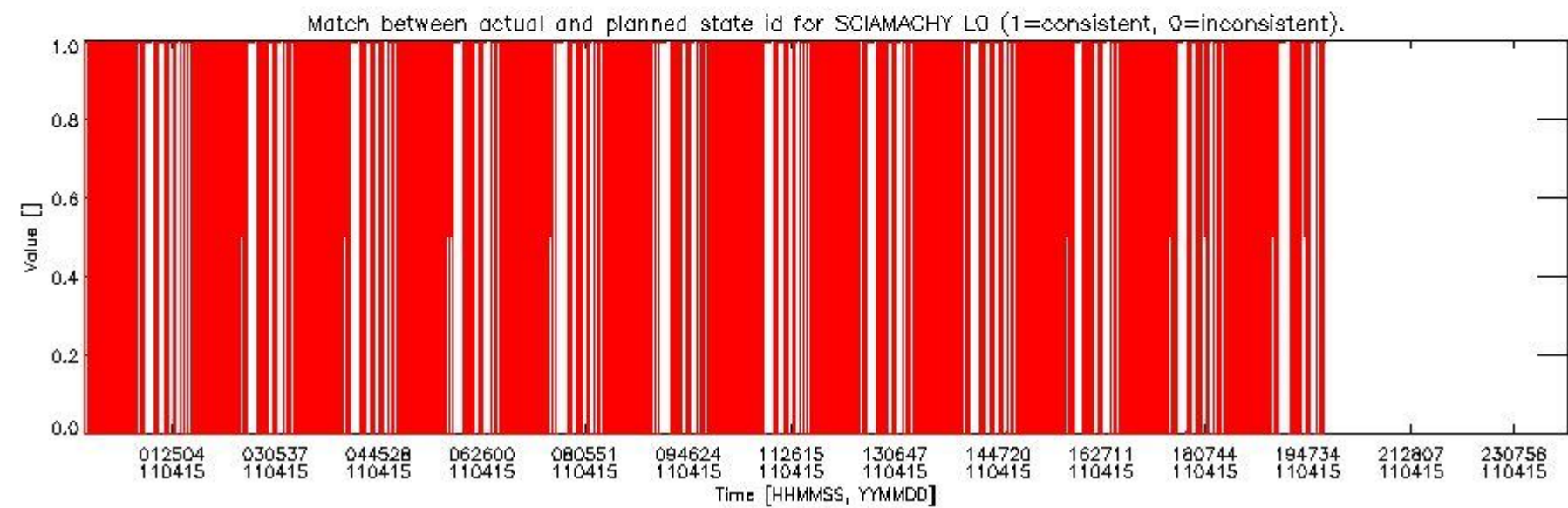
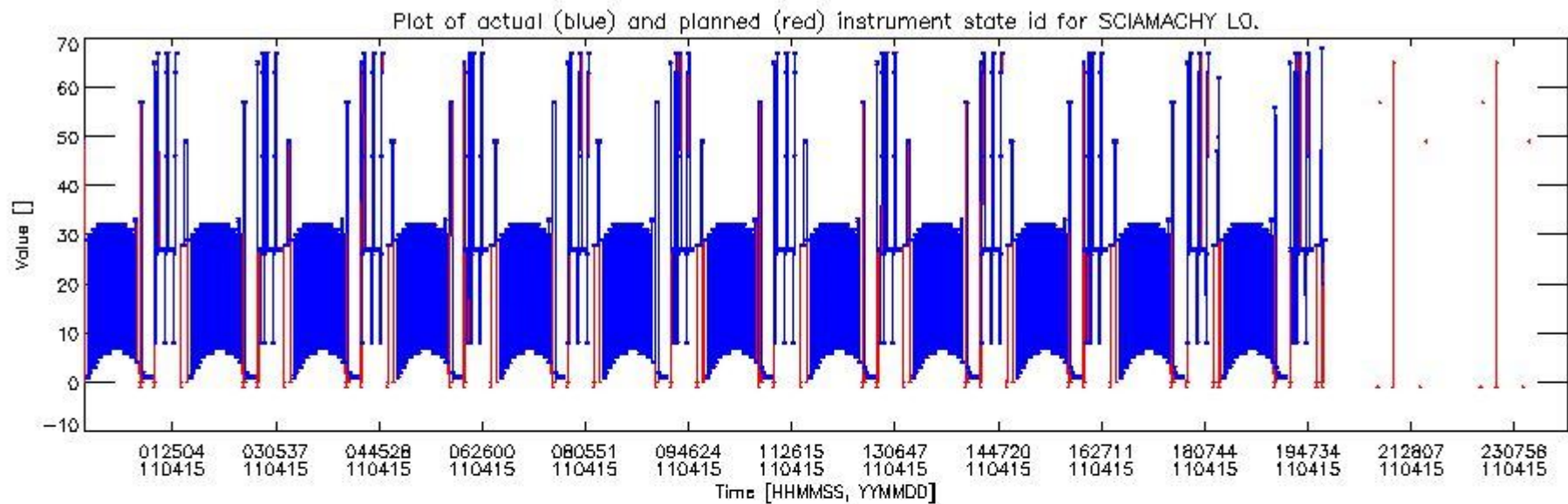


0.3 State monitoring

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: **47607**

#	Actual time	Actual value	Planned time	Planned value
0	15APR2011 00:02:47.728688	1	15APR2011 00:02:47.728688	29
1	15APR2011 00:02:47.978688	1	15APR2011 00:02:47.978688	29
2	15APR2011 00:02:48.103688	1	15APR2011 00:02:48.103688	29
3	15APR2011 00:02:48.228688	1	15APR2011 00:02:48.228688	29
4	15APR2011 00:02:48.353688	1	15APR2011 00:02:48.353688	29
5	15APR2011 00:02:48.478688	1	15APR2011 00:02:48.478688	29
6	15APR2011 00:02:48.603688	1	15APR2011 00:02:48.603688	29
7	15APR2011 00:02:48.728688	1	15APR2011 00:02:48.728688	29
8	15APR2011 00:02:48.853688	1	15APR2011 00:02:48.853688	29
9	15APR2011 00:02:48.978688	1	15APR2011 00:02:48.978688	29
10	15APR2011 00:02:49.103688	1	15APR2011 00:02:49.103688	29
11	15APR2011 00:02:49.228688	1	15APR2011 00:02:49.228688	29
12	15APR2011 00:02:49.353688	1	15APR2011 00:02:49.353688	29
13	15APR2011 00:02:49.478688	1	15APR2011 00:02:49.478688	29
14	15APR2011 00:02:49.603688	1	15APR2011 00:02:49.603688	29
15	15APR2011 00:02:49.728688	1	15APR2011 00:02:49.728688	29
16	15APR2011 00:02:49.853688	1	15APR2011 00:02:49.853688	29
17	15APR2011 00:02:49.978688	1	15APR2011 00:02:49.978688	29
18	15APR2011 00:02:50.103688	1	15APR2011 00:02:50.103688	29
19	15APR2011 00:02:50.228688	1	15APR2011 00:02:50.228688	29
...

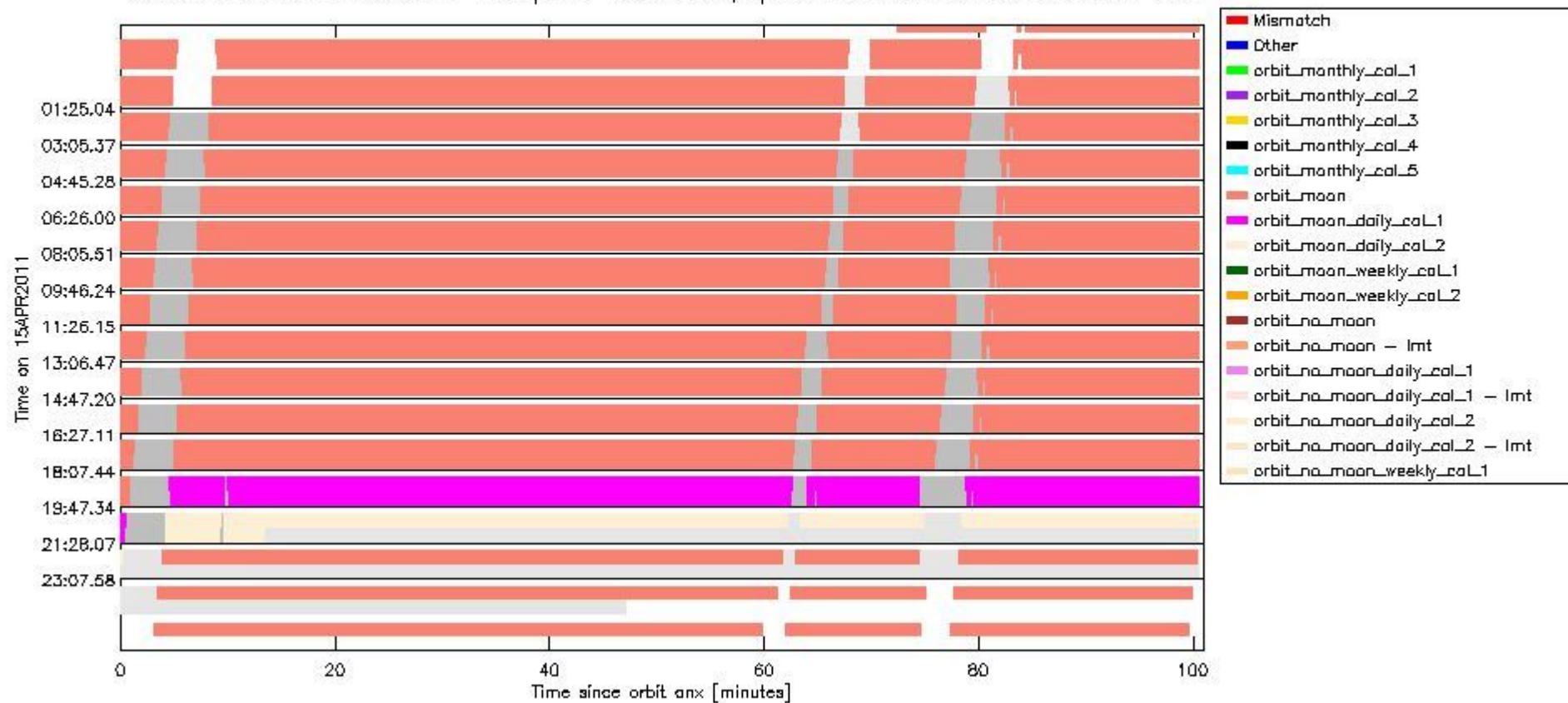


sciamachy_daily_report_level0_KSPT_L0_4504_N_20110415_5.PNG

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 15APR2011.
 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_20110415_6.PNG

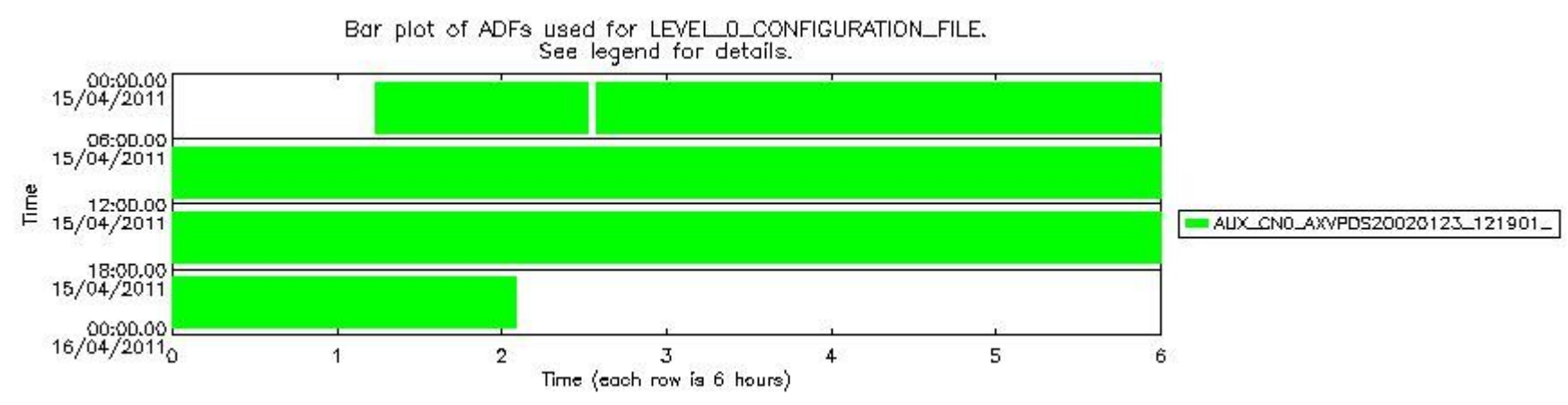
0.4 ADF monitoring

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

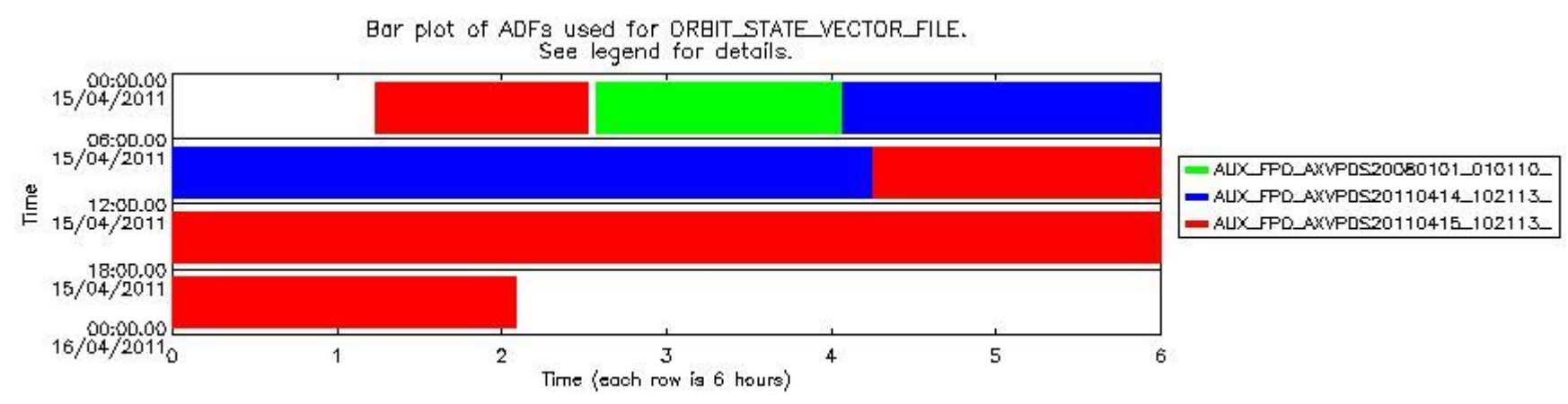
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

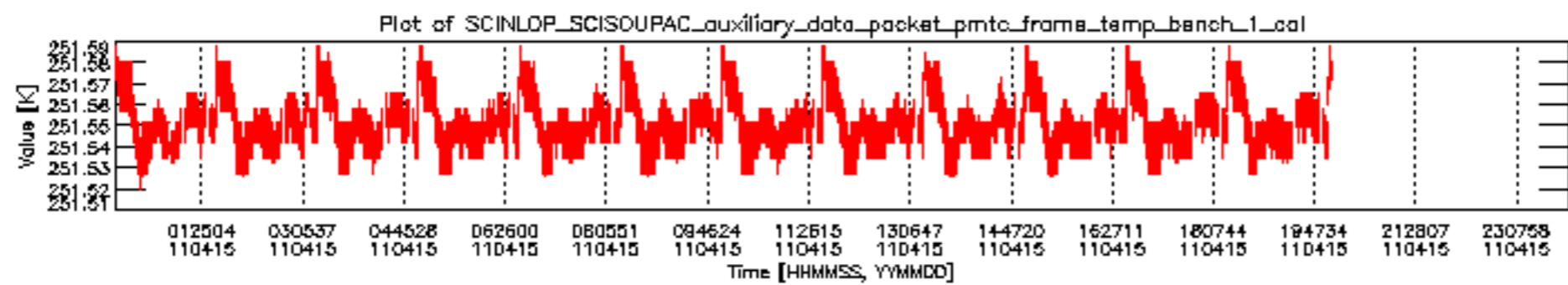
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20080101_010110_20071231_185826_20080110_202439
2	AUX_FPO_AXVPDS20110414_102113_20110413_192103_20110423_213452
3	AUX_FPO_AXVPDS20110415_102113_20110414_184419_20110424_205807

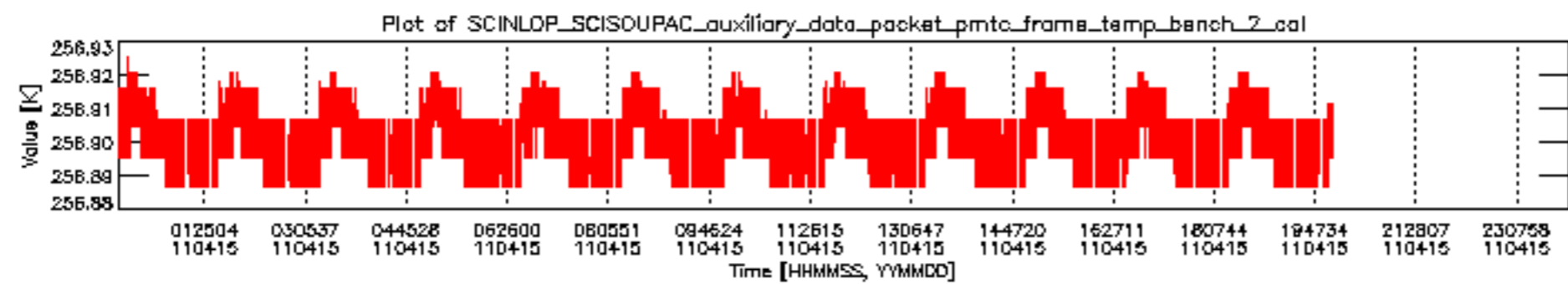


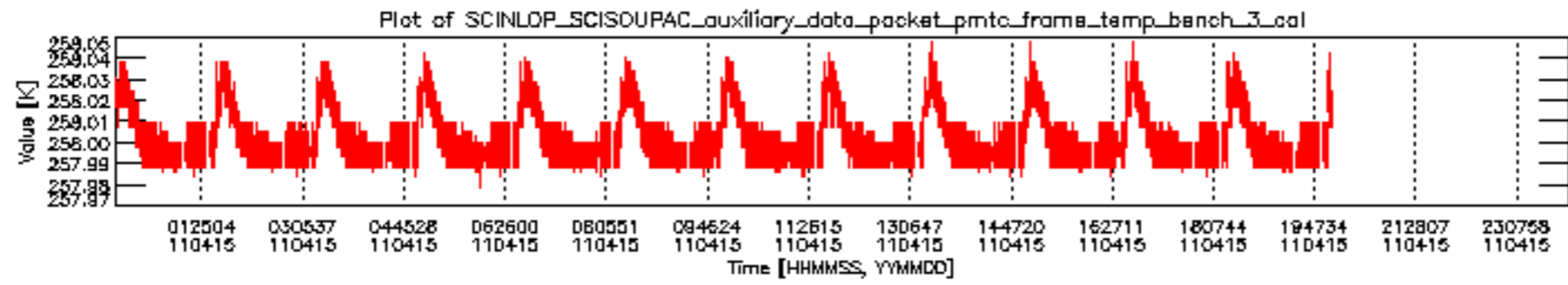
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110415_7.PNG

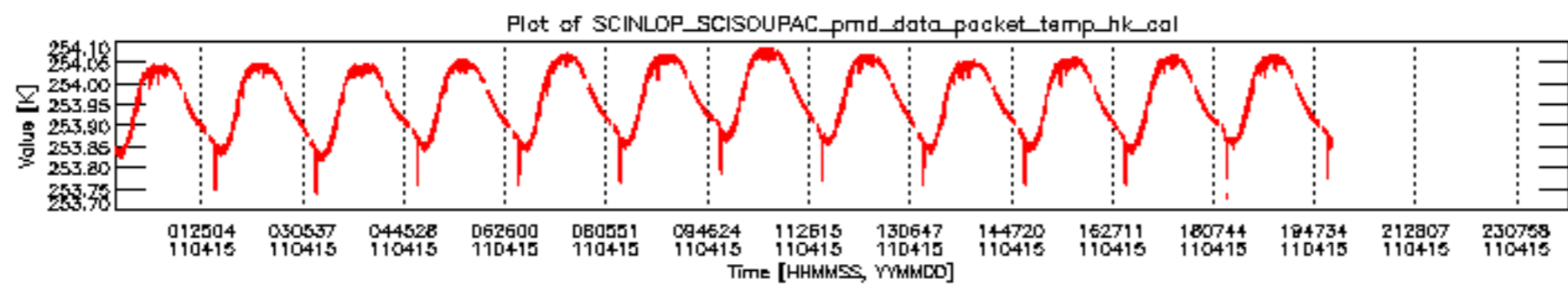


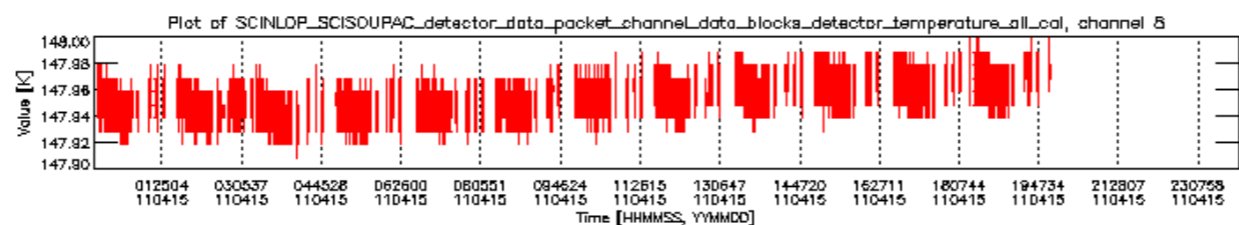
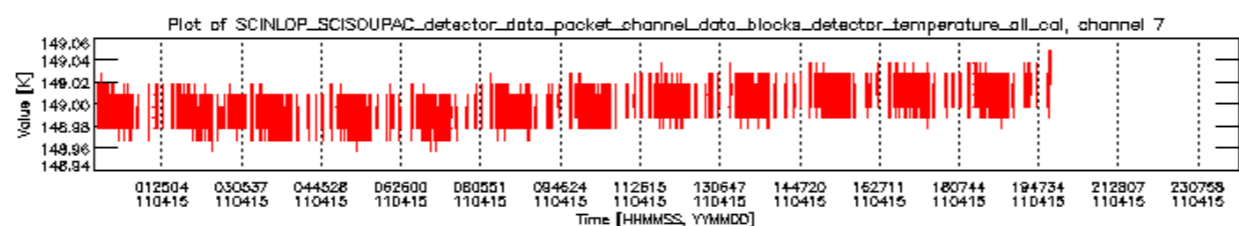
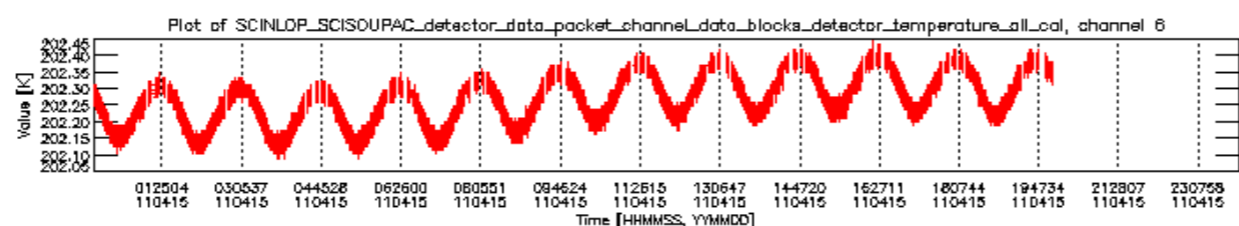
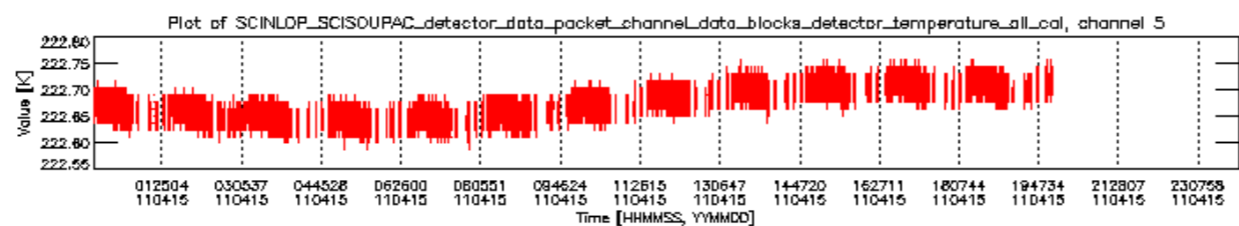
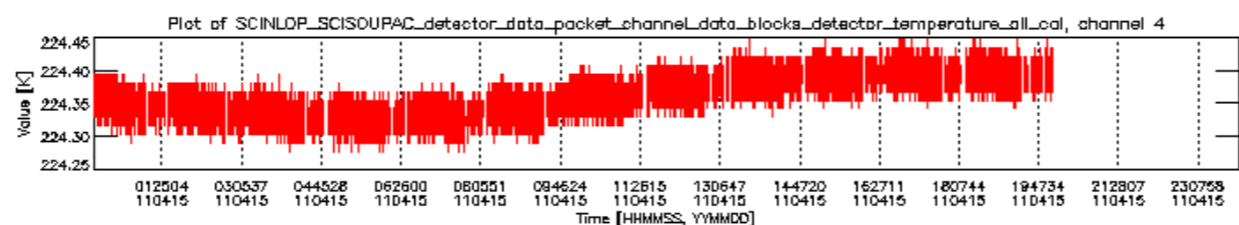
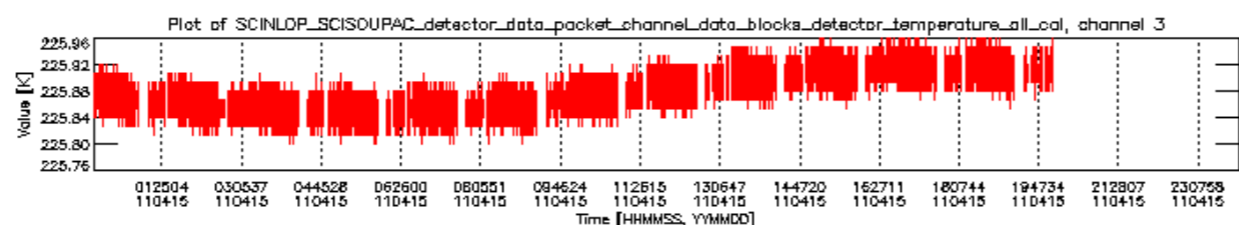
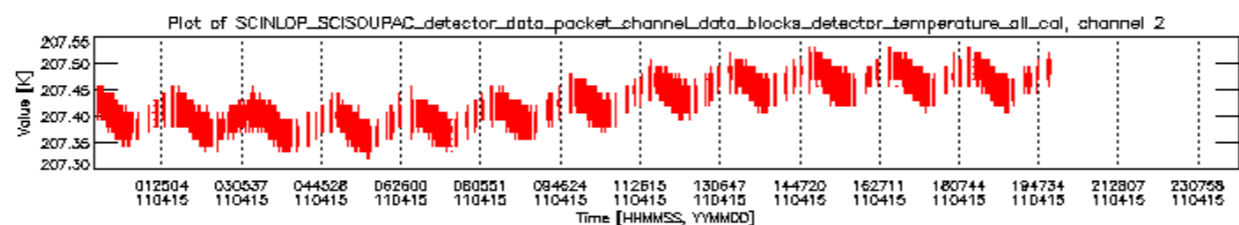
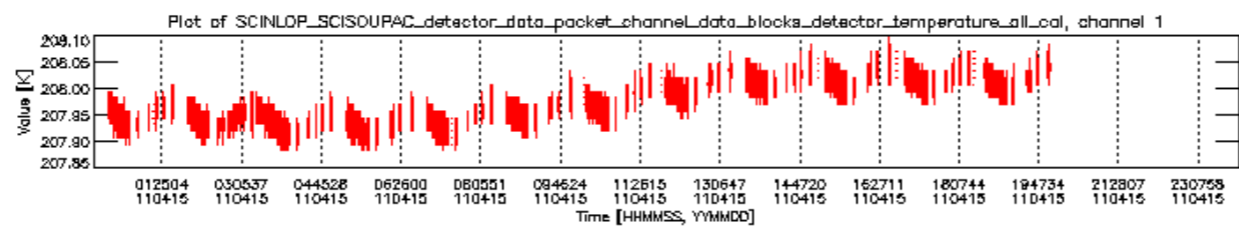
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110415_8.PNG

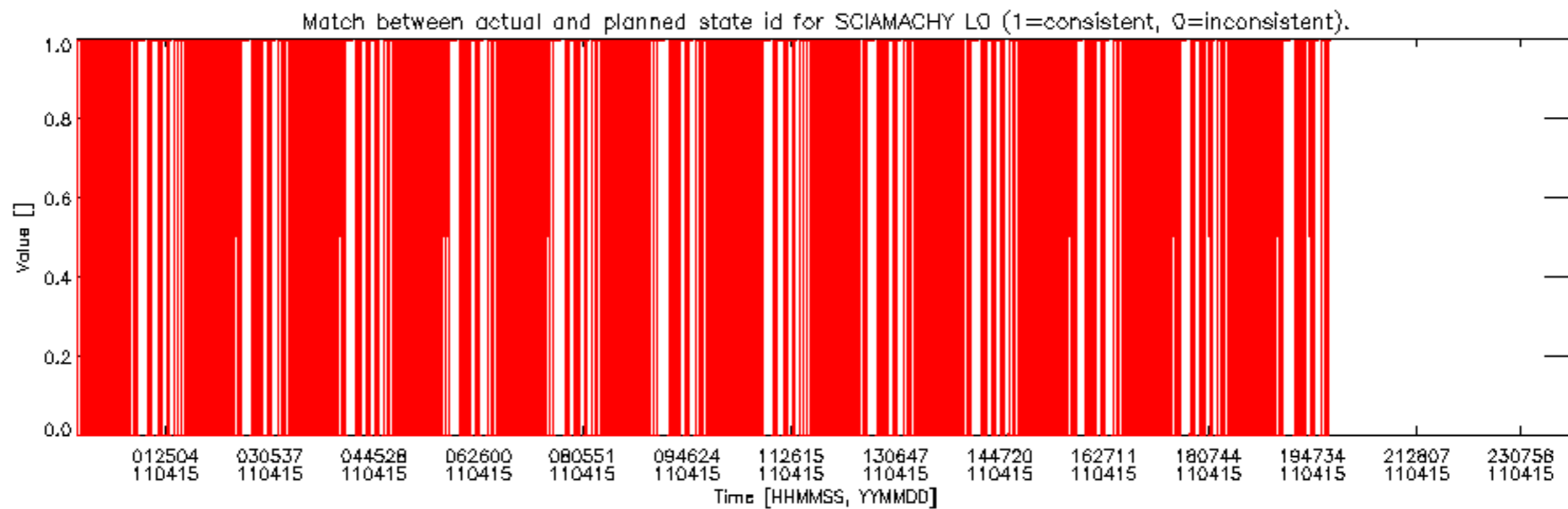
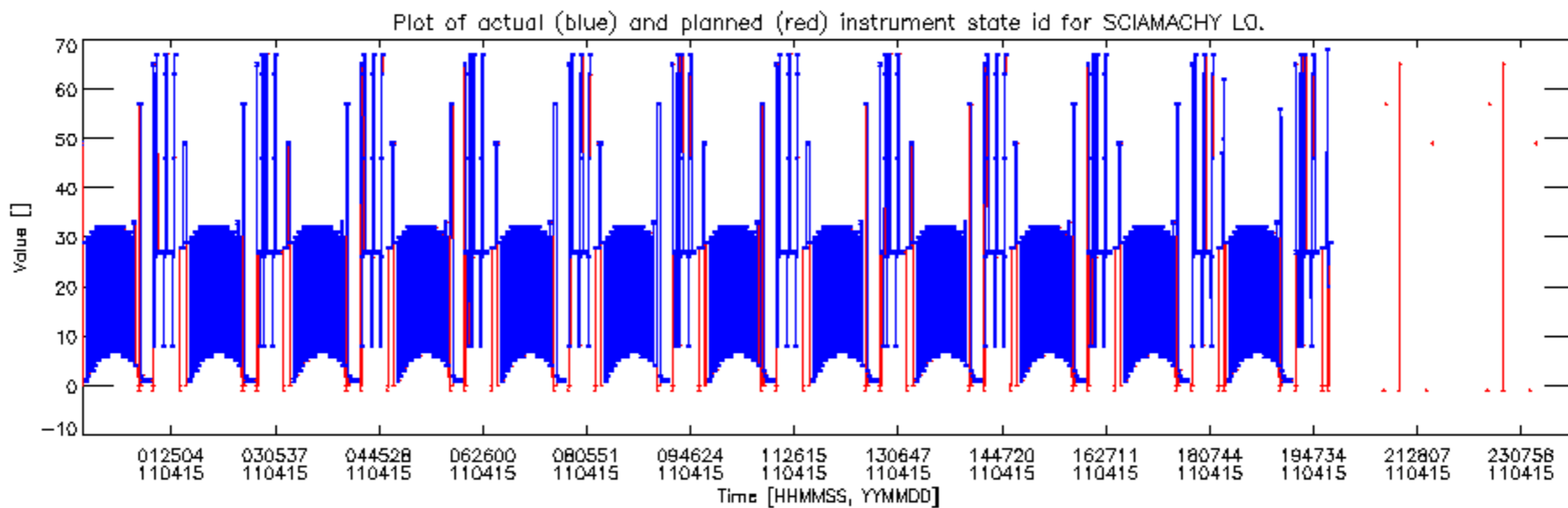




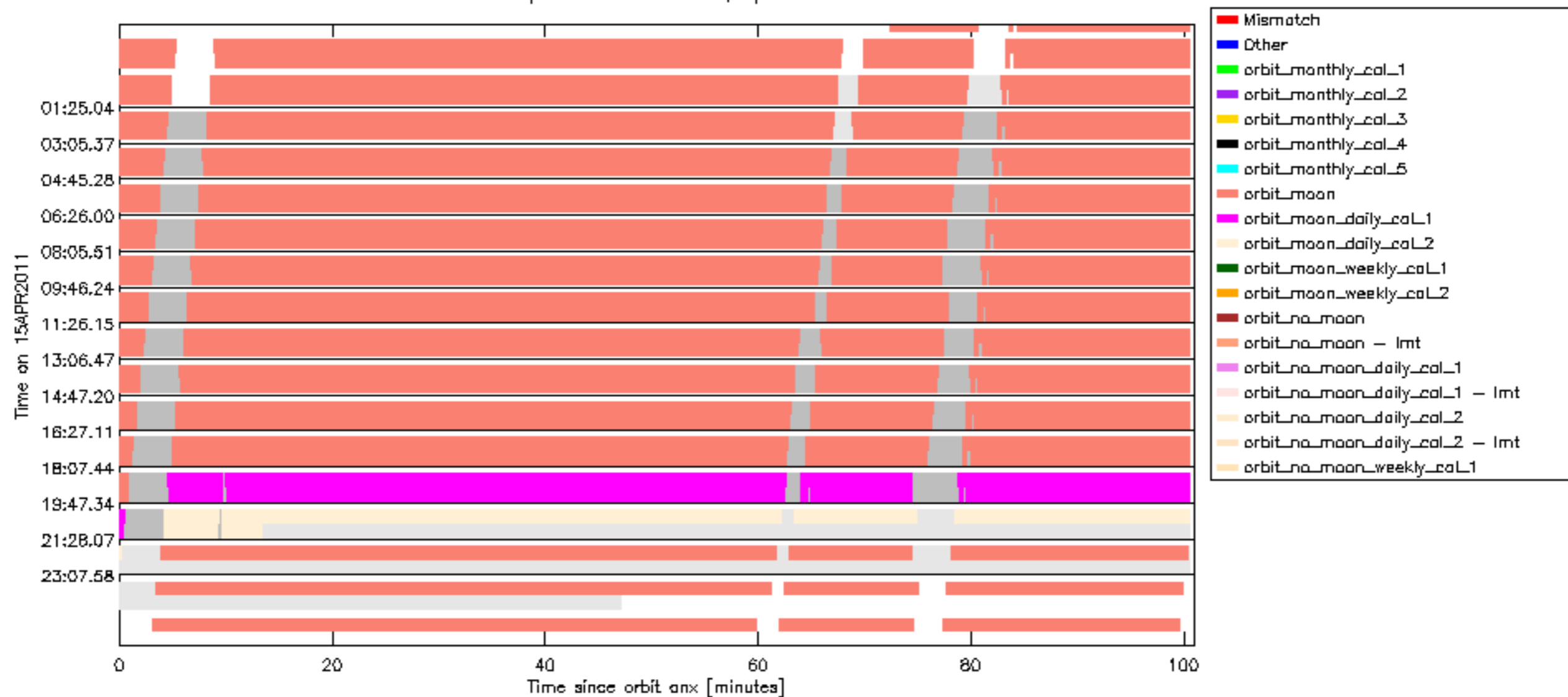


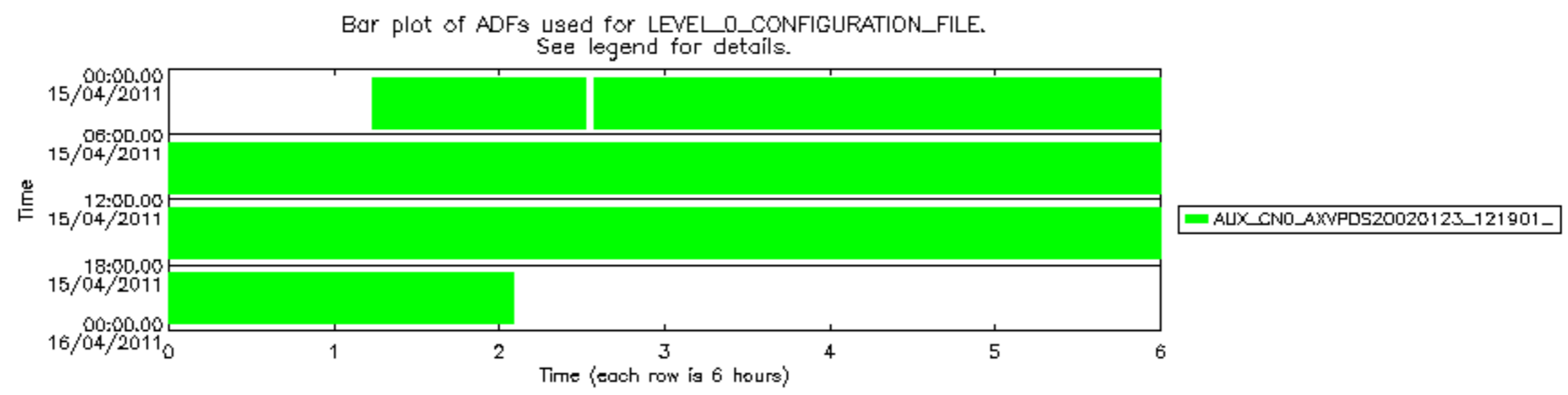






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
 The remaining colours indicate planned activities and/or special measurements.
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

