

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	14APR2011 02:59:54
Data source version	KSPT_L0/4504-N
Processing scope for products	07APR2011 00:00:00 to 08APR2011 00:00:00
Start time of first product within scope	07APR2011 01:06:44
Stop time of last product within scope	08APR2011 00:31:16
Total number of Level 0 products	15
Number of Level 0 products with errors	0

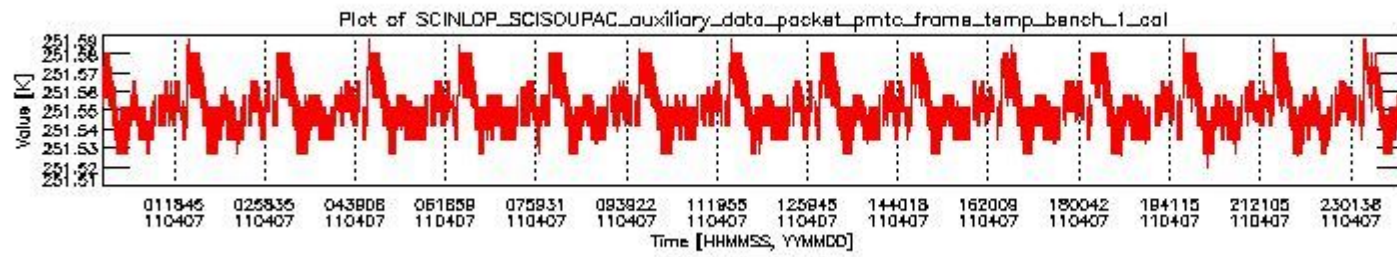
0.1.2 Summary per product

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

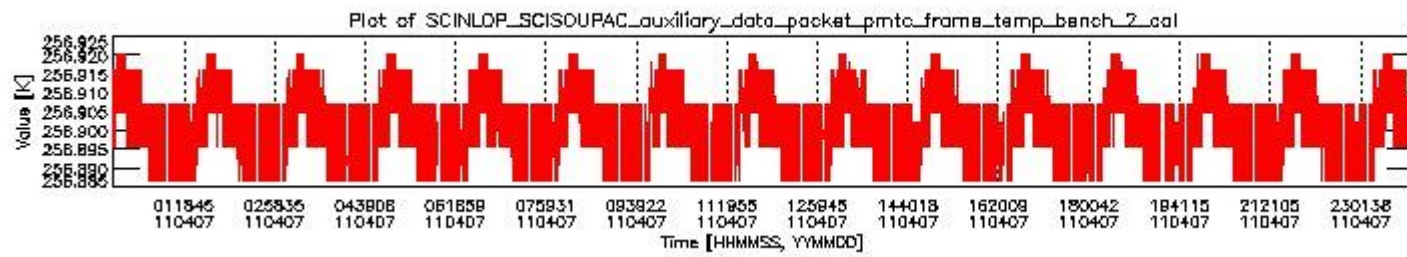
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110407_010644_000053903101_00160_47588_2867.N1	07APR2011 01:06:44	07APR2011 02:36:34	0	0	0	0	0
1	SCI_NL__OPNPDE20110407_024157_000045143101_00161_47589_2866.N1	07APR2011 02:41:57	07APR2011 03:57:11	0	0	0	0	0
2	SCI_NL__OPNPDE20110407_035616_000062453101_00162_47590_2868.N1	07APR2011 03:56:16	07APR2011 05:40:21	0	0	0	0	0
3	SCI_NL__OPNPDE20110407_053927_000060823101_00163_47591_2869.N1	07APR2011 05:39:27	07APR2011 07:20:49	0	0	0	0	0
4	SCI_NL__OPNPDK20110407_072049_000040353101_00164_47592_4271.N1	07APR2011 07:20:49	07APR2011 08:28:05	0	0	0	0	0
5	SCI_NL__OPNPDK20110407_082710_000061363101_00165_47593_4272.N1	07APR2011 08:27:10	07APR2011 10:09:27	0	0	0	0	0
6	SCI_NL__OPNPDK20110407_100832_000059453101_00166_47594_4273.N1	07APR2011 10:08:32	07APR2011 11:47:37	0	0	0	0	0
7	SCI_NL__OPNPDK20110407_114629_000059593101_00167_47595_4274.N1	07APR2011 11:46:29	07APR2011 13:25:48	0	0	0	0	0
8	SCI_NL__OPNPDK20110407_132548_000058913101_00168_47596_4275.N1	07APR2011 13:25:48	07APR2011 15:03:59	0	0	0	0	0
9	SCI_NL__OPNPDK20110407_150250_000059053101_00169_47597_4276.N1	07APR2011 15:02:50	07APR2011 16:41:16	0	0	0	0	0
10	SCI_NL__OPNPDK20110407_164007_000059453101_00170_47598_4277.N1	07APR2011 16:40:07	07APR2011 18:19:13	0	0	0	0	0
11	SCI_NL__OPNPDK20110407_181818_000060273101_00171_47599_4278.N1	07APR2011 18:18:18	07APR2011 19:58:46	0	0	0	0	0
12	SCI_NL__OPNPDE20110407_195657_000040483101_00172_47600_2870.N1	07APR2011 19:56:57	07APR2011 21:04:25	0	0	0	0	0
13	SCI_NL__OPNPDE20110407_210425_000063973101_00172_47600_2871.N1	07APR2011 21:04:25	07APR2011 22:51:02	0	0	0	0	0
14	SCI_NL__OPNPDE20110407_224934_000061013101_00173_47601_2872.N1	07APR2011 22:49:34	08APR2011 00:31:16	0	0	0	0	0

0.2 Product Quality Indicators

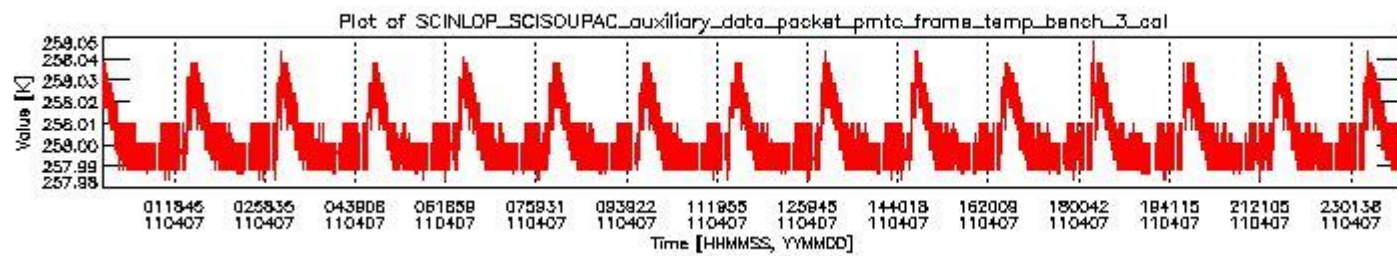
This section shows information about product quality, currently temperatures.



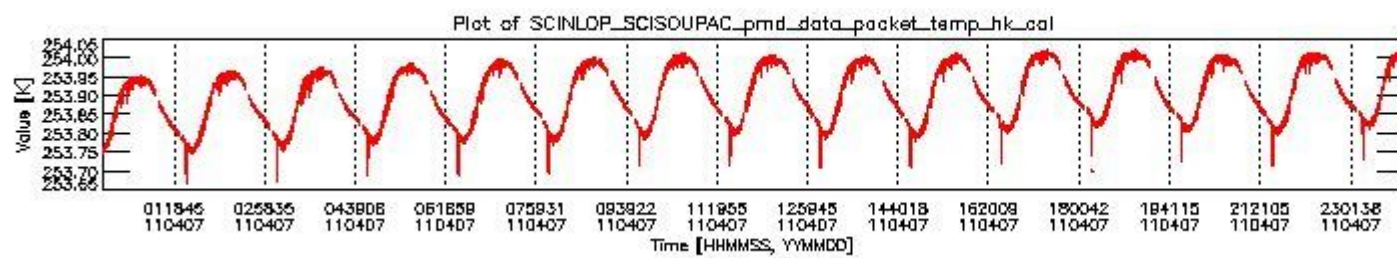
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110407_0.PNG



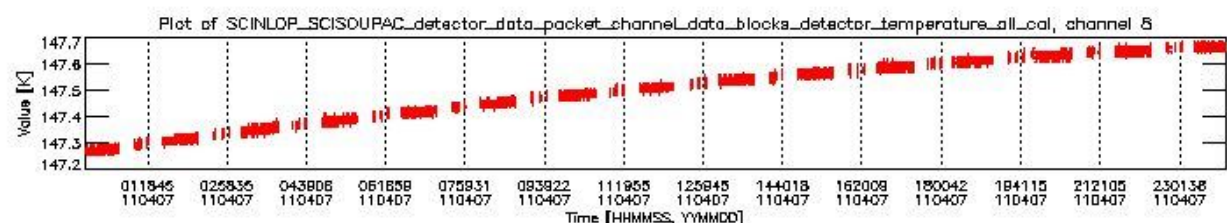
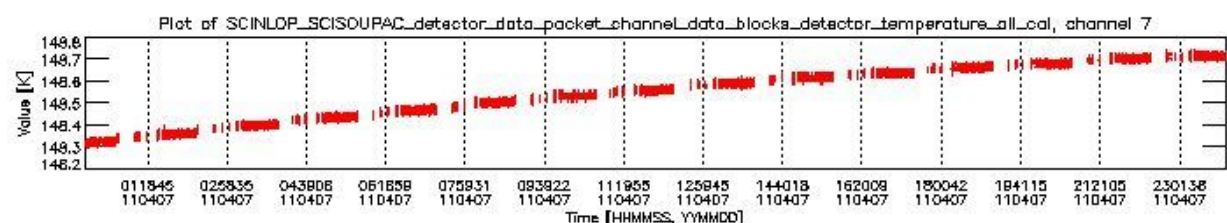
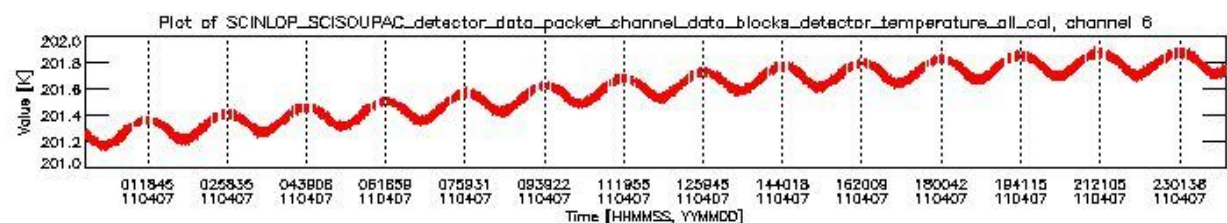
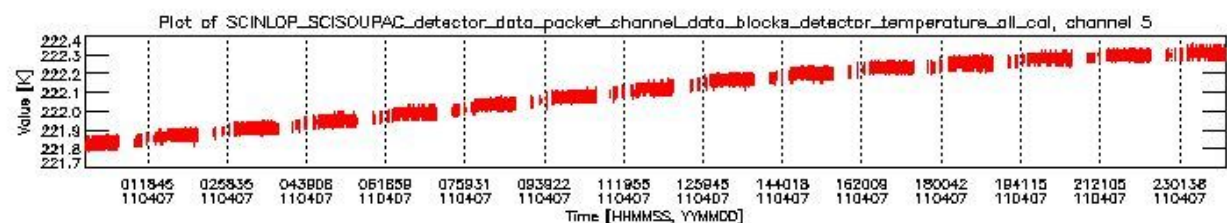
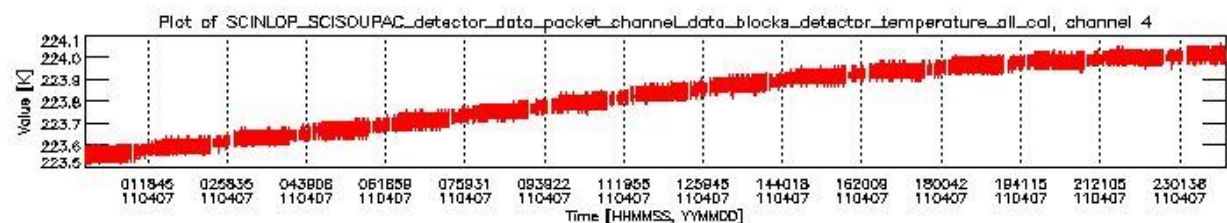
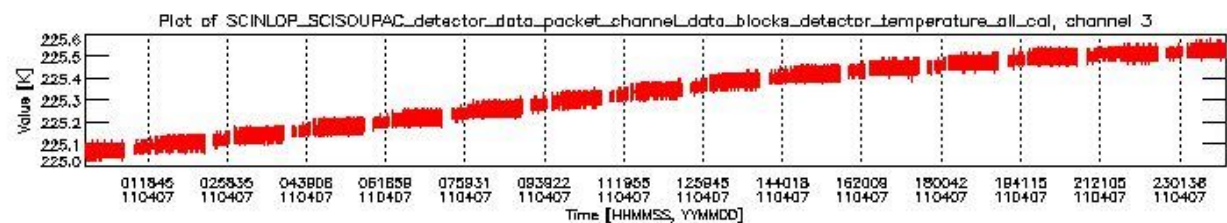
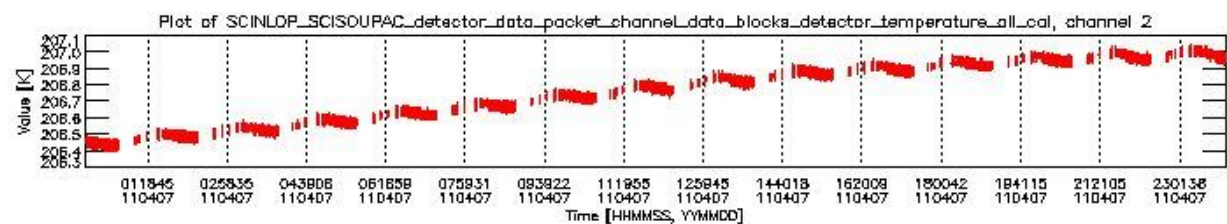
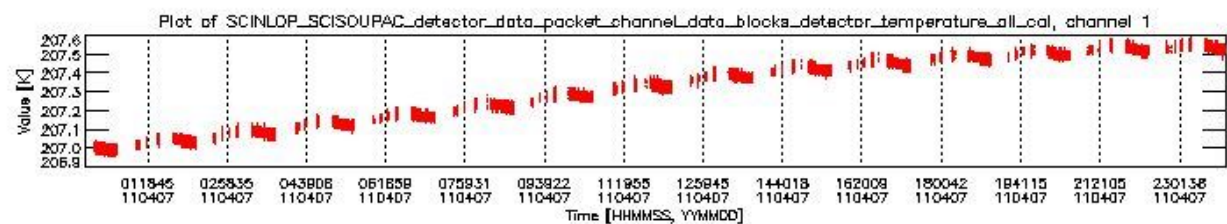
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110407_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20110407_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20110407_3.PNG

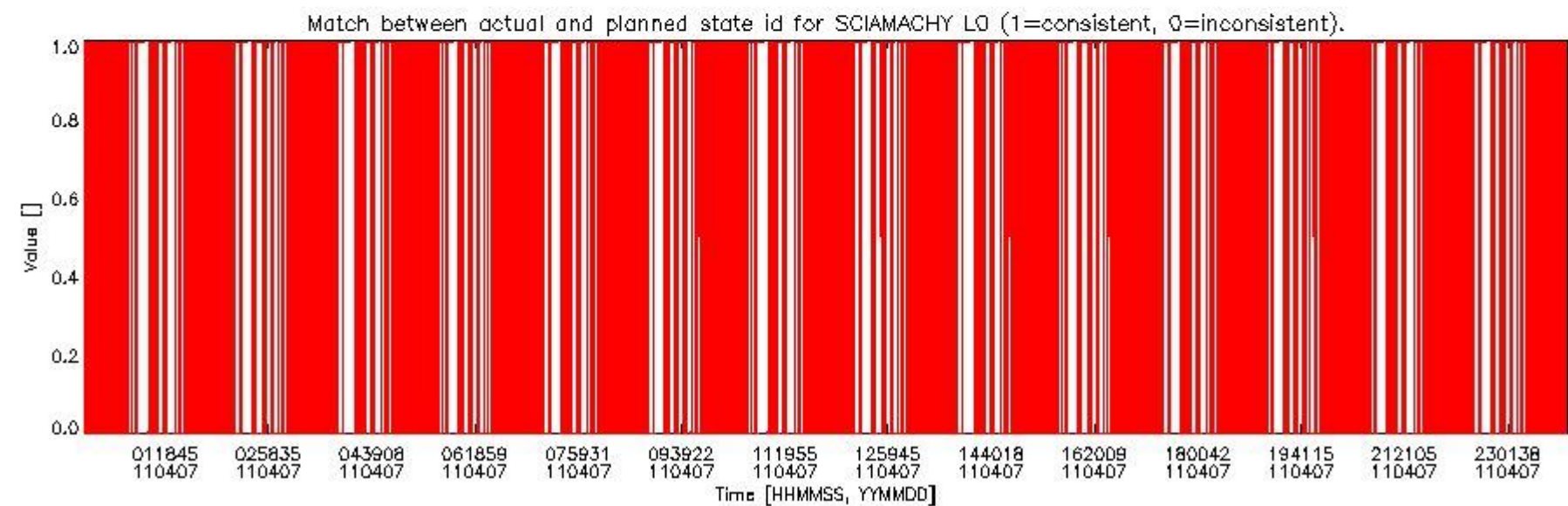
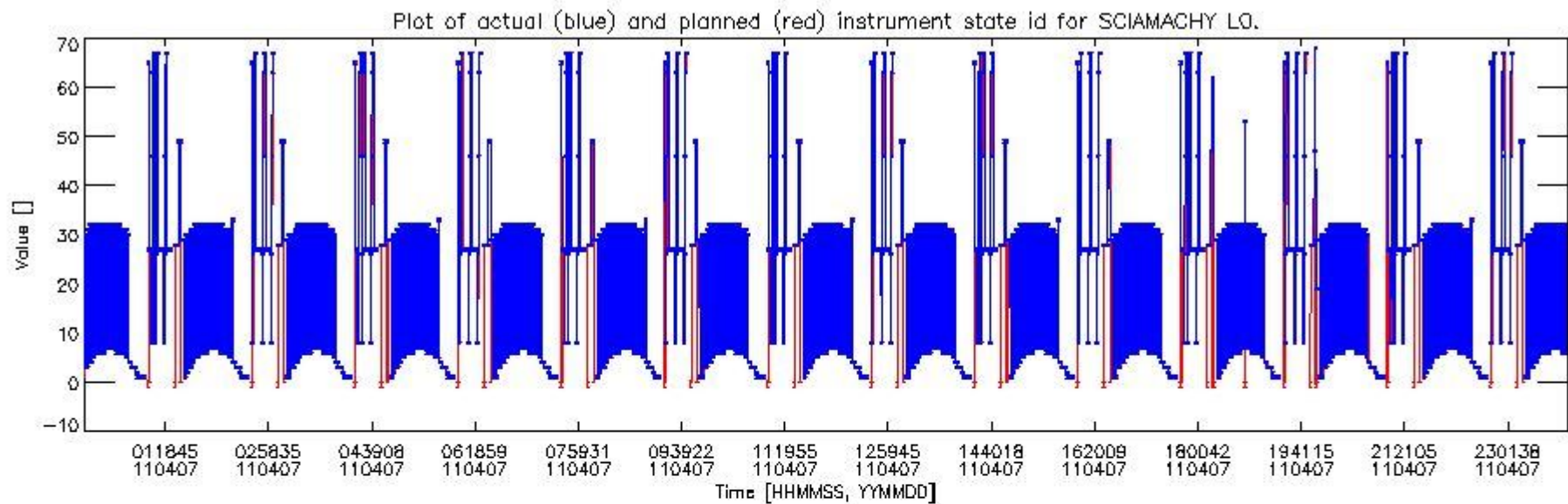


0.3 State monitoring

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: **58620**

#	Actual time	Actual value	Planned time	Planned value
0	07APR2011 00:00:00.120560	3	07APR2011 00:00:00.120560	30
1	07APR2011 00:00:00.245560	3	07APR2011 00:00:00.245560	30
2	07APR2011 00:00:00.370560	3	07APR2011 00:00:00.370560	30
3	07APR2011 00:00:00.495560	3	07APR2011 00:00:00.495560	30
4	07APR2011 00:00:00.620560	3	07APR2011 00:00:00.620560	30
5	07APR2011 00:00:00.745560	3	07APR2011 00:00:00.745560	30
6	07APR2011 00:00:00.870560	3	07APR2011 00:00:00.870560	30
7	07APR2011 00:00:00.995560	3	07APR2011 00:00:00.995560	30
8	07APR2011 00:00:01.120560	3	07APR2011 00:00:01.120560	30
9	07APR2011 00:00:01.245560	3	07APR2011 00:00:01.245560	30
10	07APR2011 00:00:01.370560	3	07APR2011 00:00:01.370560	30
11	07APR2011 00:00:01.495560	3	07APR2011 00:00:01.495560	30
12	07APR2011 00:00:01.620560	3	07APR2011 00:00:01.620560	30
13	07APR2011 00:00:01.745560	3	07APR2011 00:00:01.745560	30
14	07APR2011 00:00:01.870560	3	07APR2011 00:00:01.870560	30
15	07APR2011 00:00:01.995560	3	07APR2011 00:00:01.995560	30
16	07APR2011 00:00:02.120560	3	07APR2011 00:00:02.120560	30
17	07APR2011 00:00:02.245560	3	07APR2011 00:00:02.245560	30
18	07APR2011 00:00:02.370560	3	07APR2011 00:00:02.370560	30
19	07APR2011 00:00:02.495560	3	07APR2011 00:00:02.495560	30
...

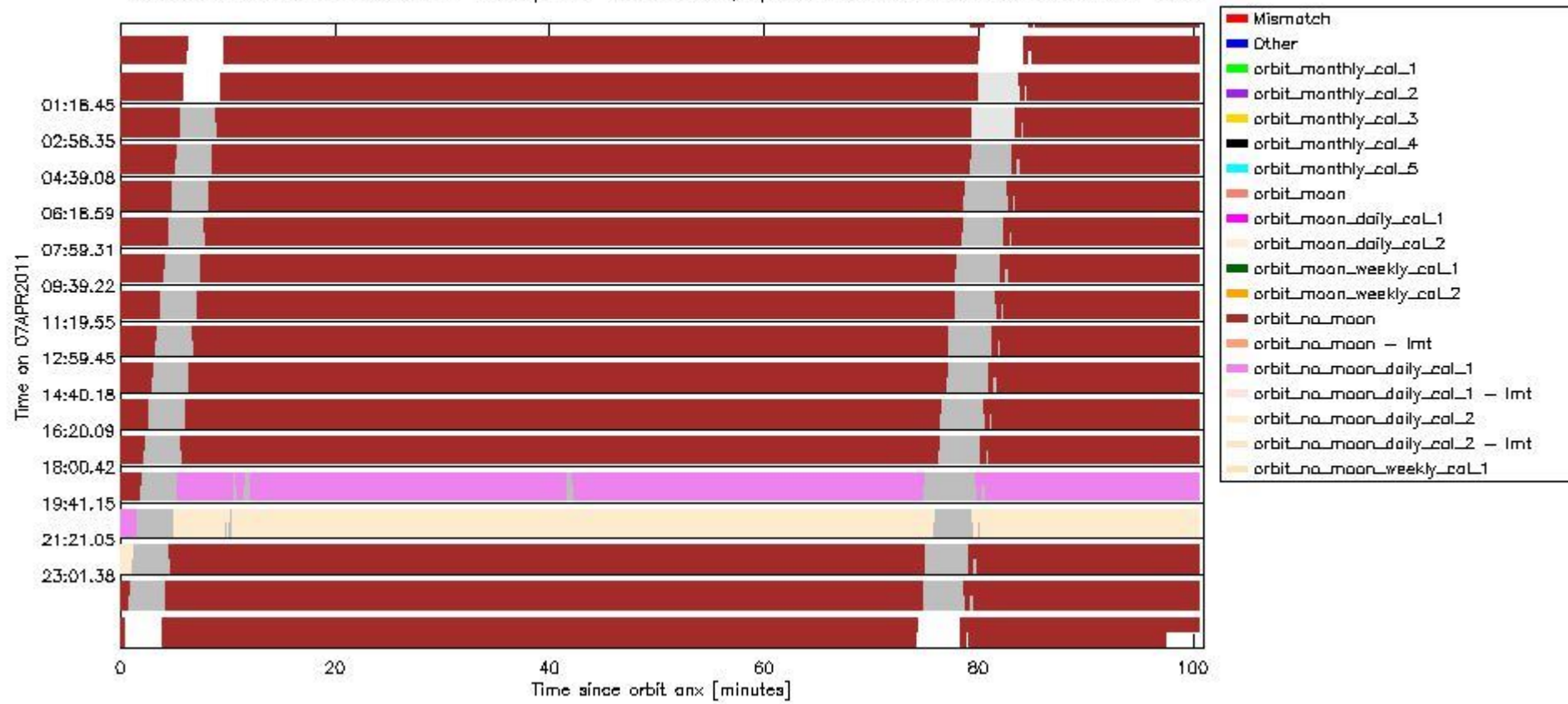


sciamachy_daily_report_level0_KSPT_L0_4504_N_20110407_5.PNG

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 07APR2011.
 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_20110407_6.PNG

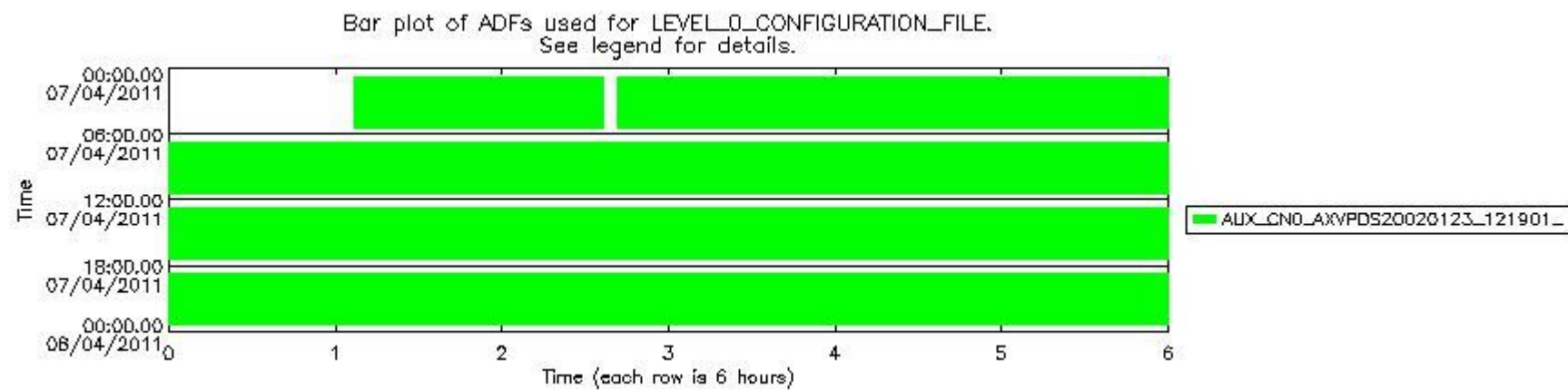
0.4 ADF monitoring

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

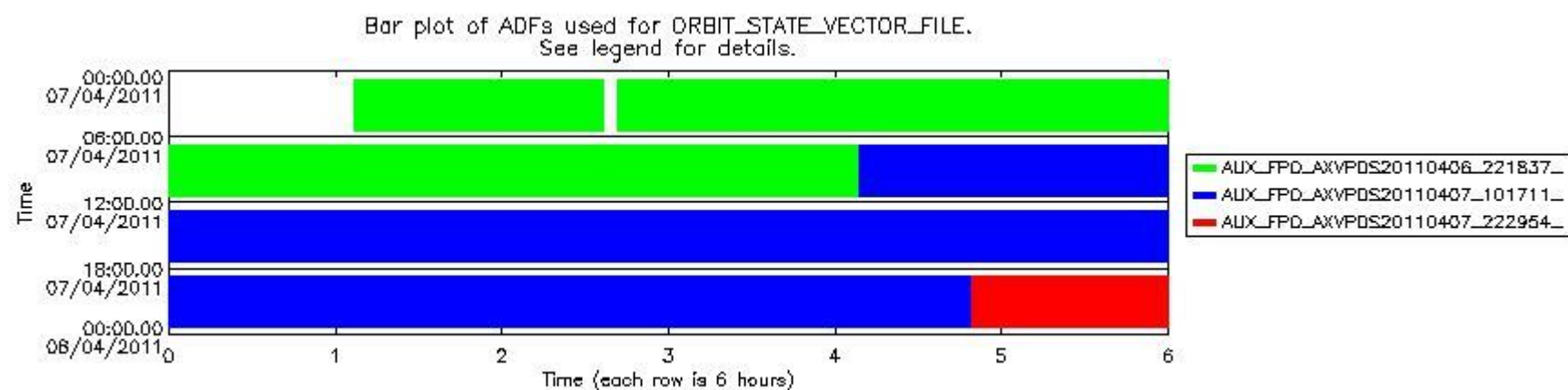
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

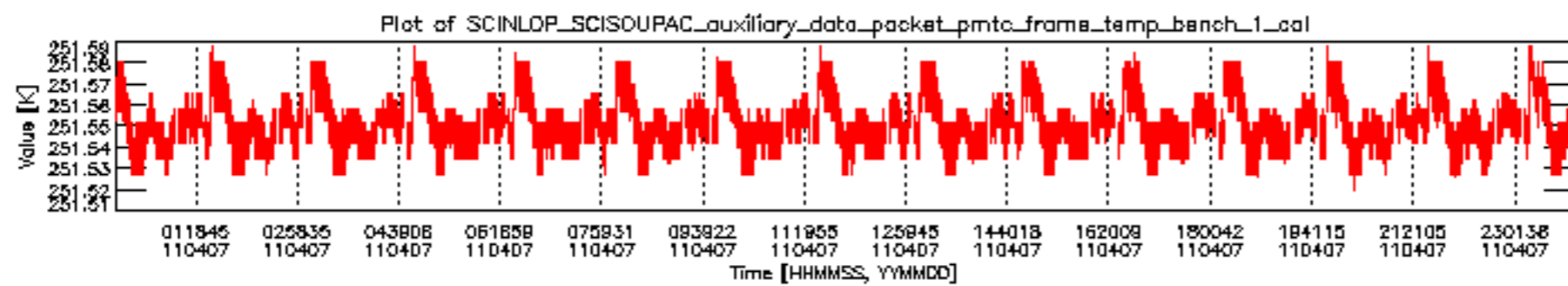
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20110406_221837_20110405_191414_20110415_212803
2	AUX_FPO_AXVPDS20110407_101711_20110406_183730_20110416_205119
3	AUX_FPO_AXVPDS20110407_222954_20110407_111950_20110417_133339

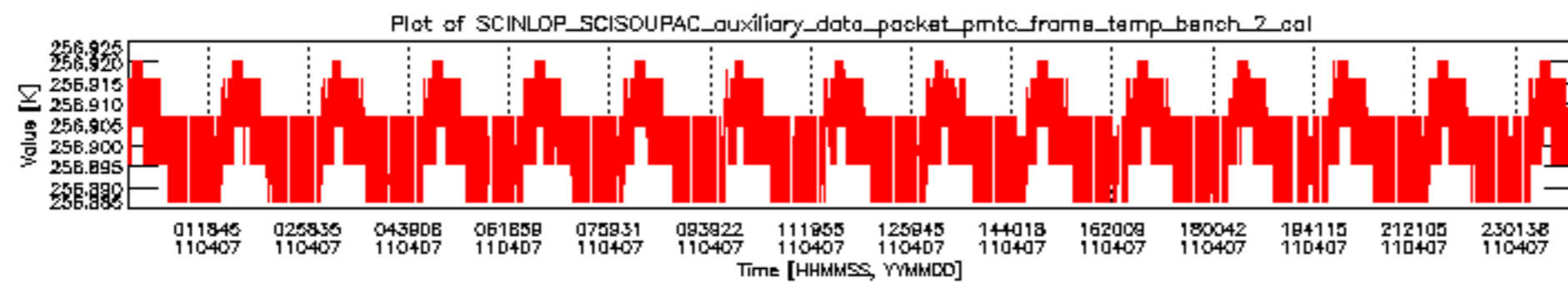


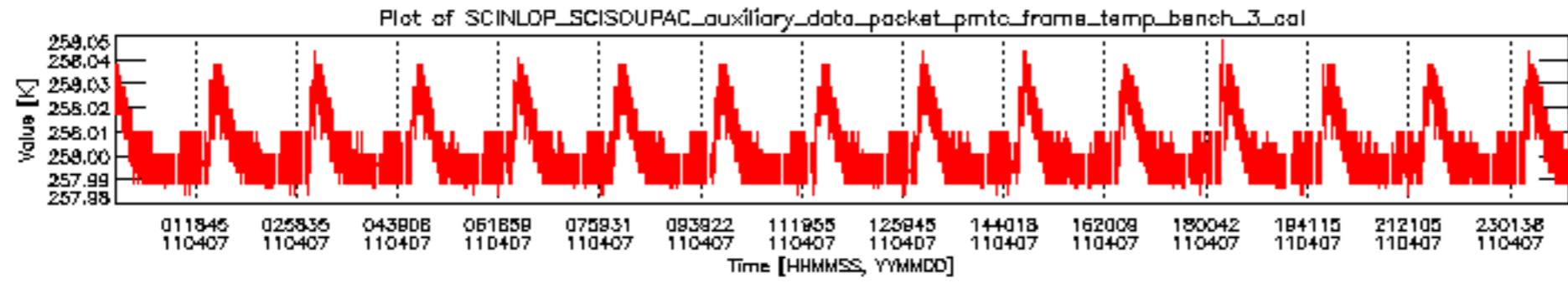
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110407_7.PNG

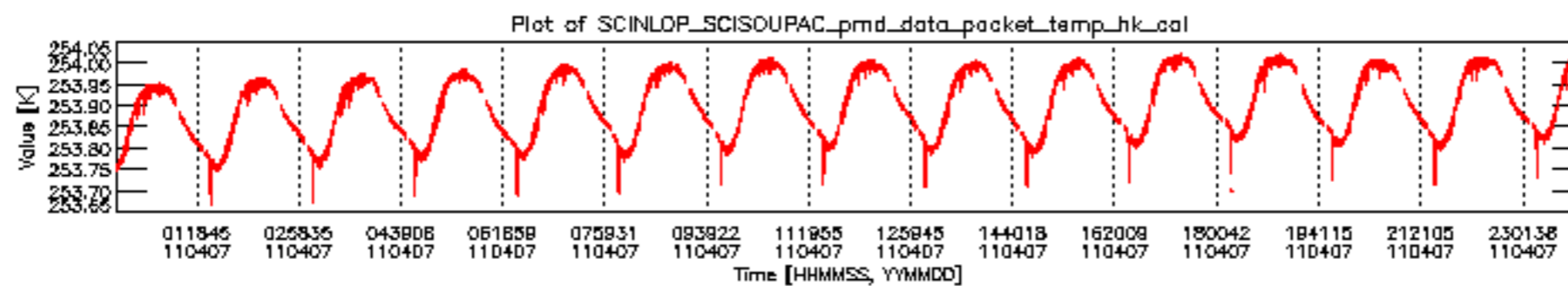


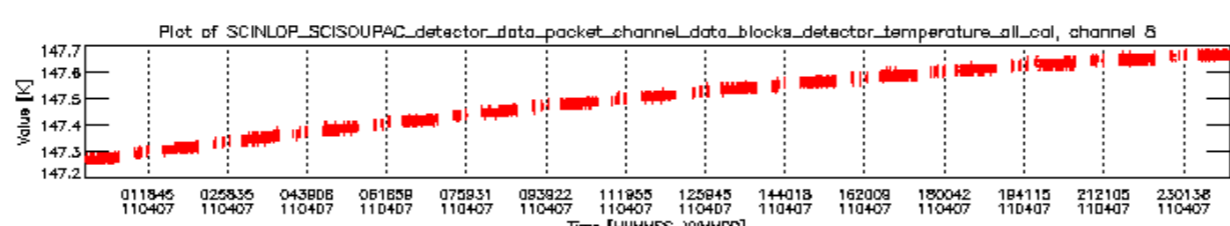
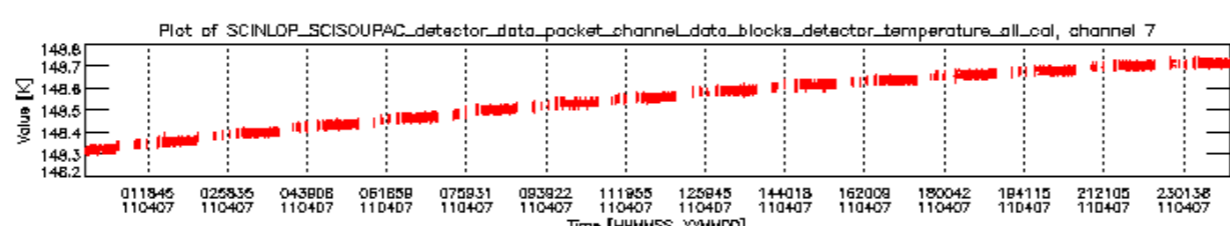
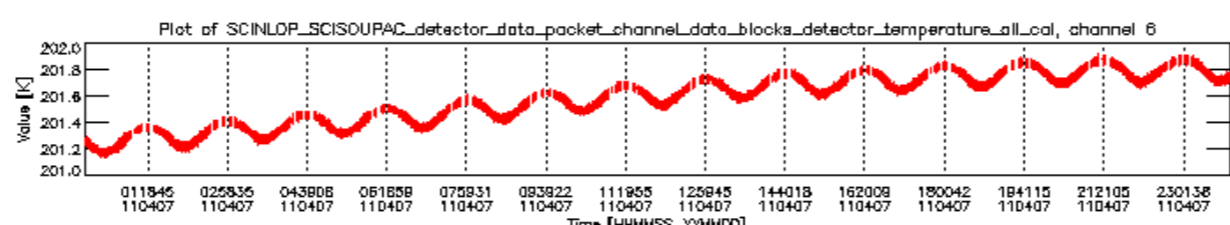
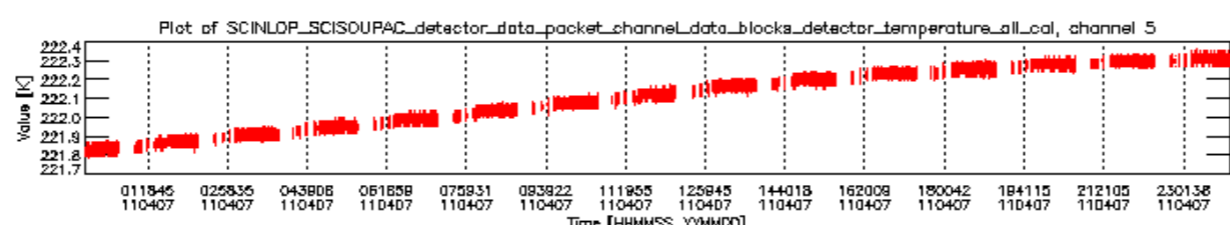
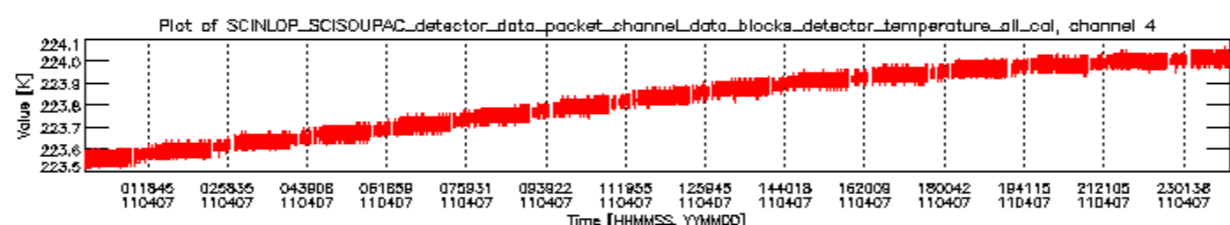
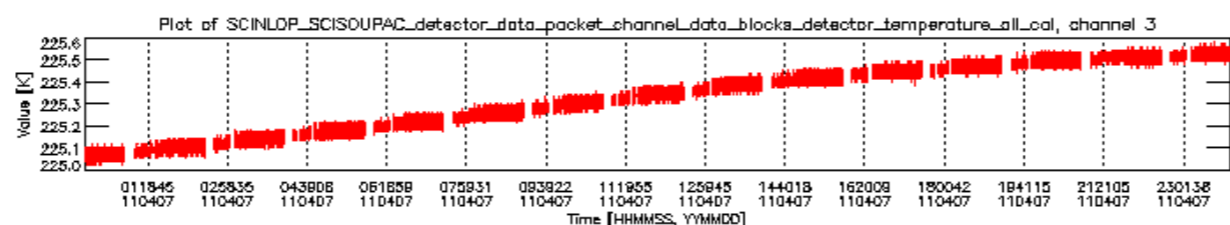
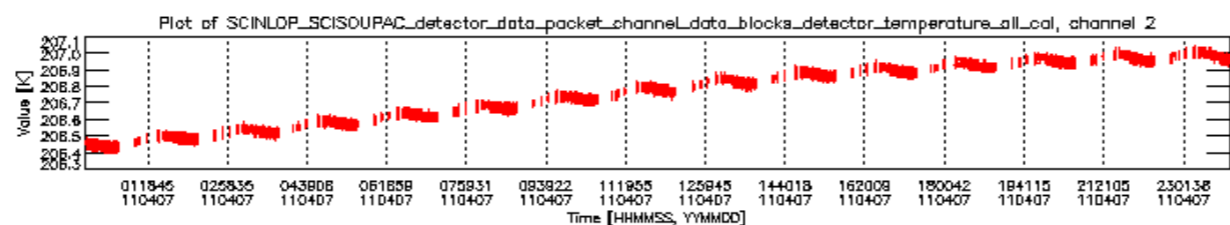
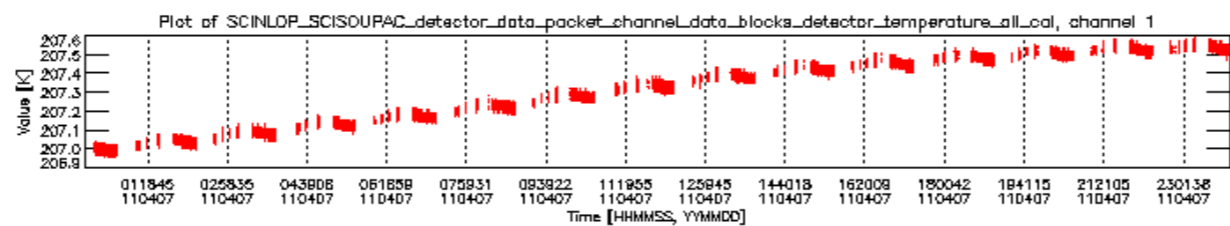
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110407_8.PNG

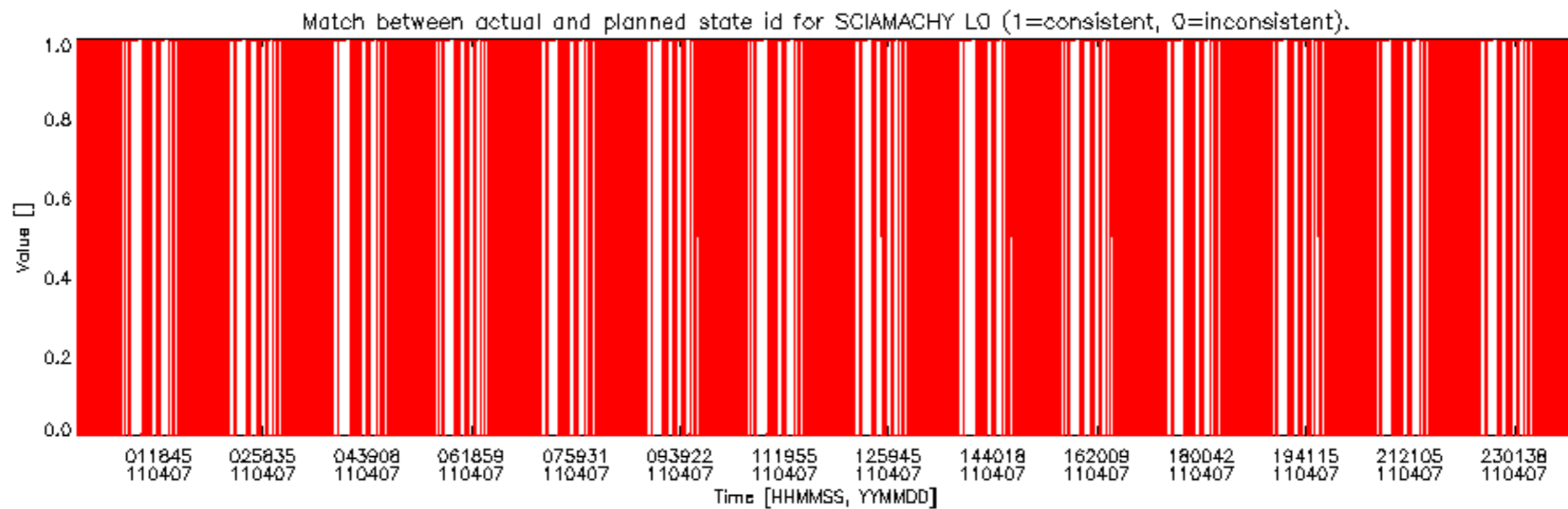
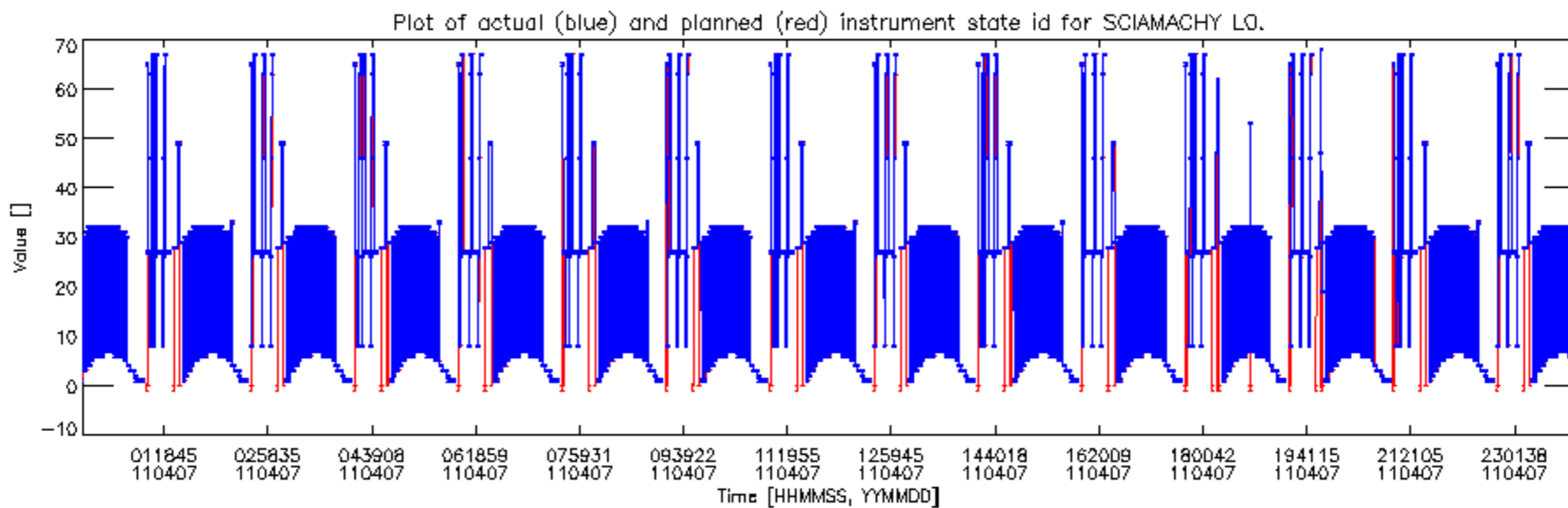




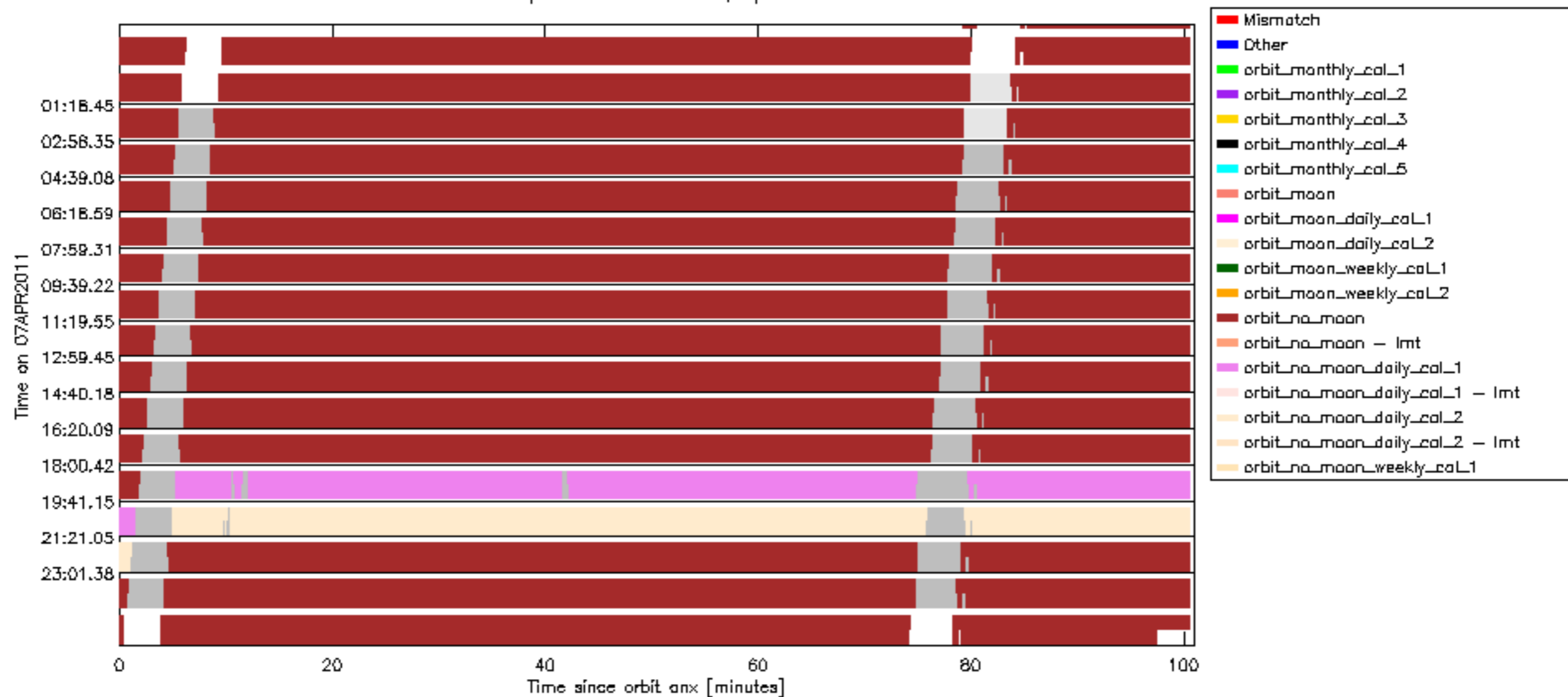


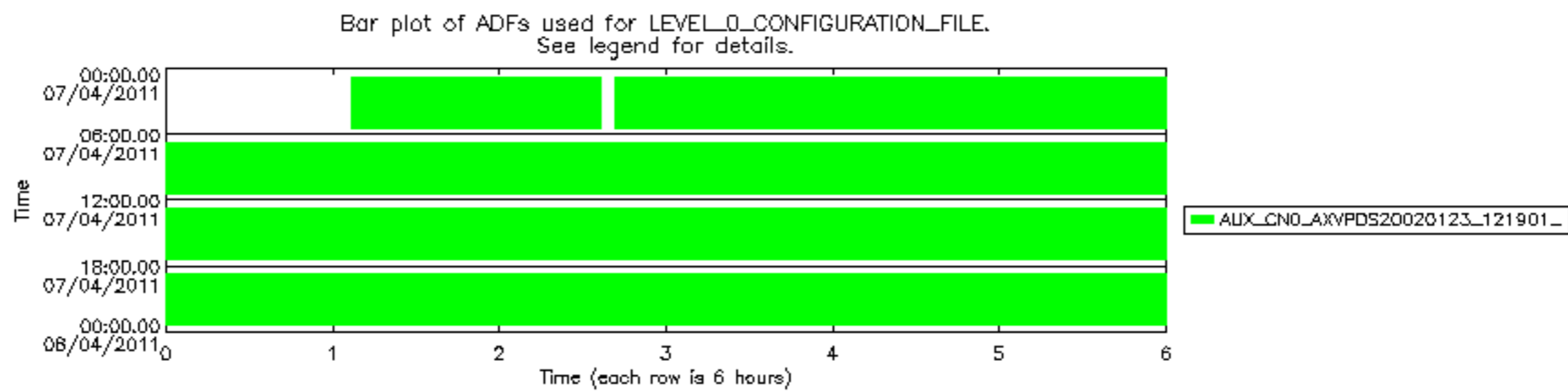






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 The remaining colours indicate planned activities and/or special measurements.
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Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.
See legend for details.

