

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	02OCT2010 02:34:23
Data source version	<Any version>
Processing scope for products	25SEP2010 00:00:00 to 26SEP2010 00:00:00
Start time of first product within scope	25SEP2010 00:22:07
Stop time of last product within scope	26SEP2010 01:30:41
Total number of Level 0 products	16
Number of Level 0 products with errors	0

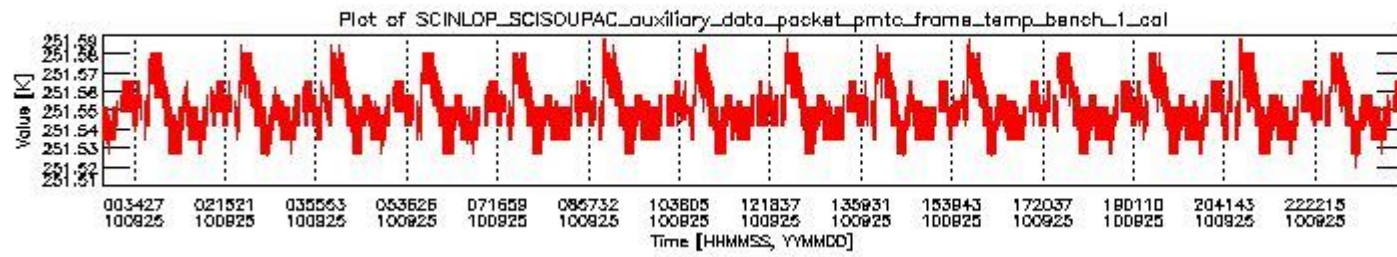
0.1.2 Summary per product

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

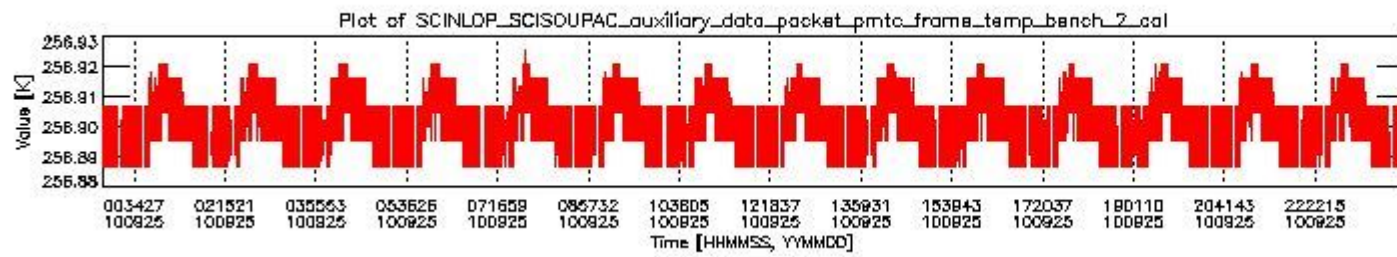
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100925_002207_000059592093_00159_44802_2407.N1	25SEP2010 00:22:07	25SEP2010 02:01:26	0	0	0	0	0
1	SCI_NL__OPNPDE20100925_020043_000044312093_00160_44803_2408.N1	25SEP2010 02:00:43	25SEP2010 03:14:34	0	0	0	0	0
2	SCI_NL__OPNPDE20100925_031434_000061612093_00161_44804_2409.N1	25SEP2010 03:14:34	25SEP2010 04:57:14	0	0	0	0	0
3	SCI_NL__OPNPDE20100925_045619_000060242093_00162_44805_2410.N1	25SEP2010 04:56:19	25SEP2010 06:36:42	0	0	0	0	0
4	SCI_NL__OPNPDK20100925_063642_000040582093_00163_44806_2565.N1	25SEP2010 06:36:42	25SEP2010 07:44:21	0	0	0	0	0
5	SCI_NL__OPNPDK20100925_074421_000061482093_00164_44807_2566.N1	25SEP2010 07:44:21	25SEP2010 09:26:49	0	0	0	0	0
6	SCI_NL__OPNPDK20100925_092553_000060362093_00165_44808_2567.N1	25SEP2010 09:25:53	25SEP2010 11:06:29	0	0	0	0	0
7	SCI_NL__OPNPDK20100925_110534_000060242093_00166_44809_2568.N1	25SEP2010 11:05:34	25SEP2010 12:45:57	0	0	0	0	0
8	SCI_NL__OPNPDK20100925_124501_000059122093_00167_44810_2569.N1	25SEP2010 12:45:01	25SEP2010 14:23:33	0	0	0	0	0
9	SCI_NL__OPNPDK20100925_142238_000058992093_00168_44811_2570.N1	25SEP2010 14:22:38	25SEP2010 16:00:57	0	0	0	0	0
10	SCI_NL__OPNPDK20100925_160001_000058482093_00169_44812_2571.N1	25SEP2010 16:00:01	25SEP2010 17:37:29	0	0	0	0	0
11	SCI_NL__OPNPDK20100925_173532_000061162093_00170_44813_2572.N1	25SEP2010 17:35:32	25SEP2010 19:17:28	0	0	0	0	0
12	SCI_NL__OPNPDK20100925_191609_000060362093_00171_44814_2573.N1	25SEP2010 19:16:09	25SEP2010 20:56:45	0	0	0	0	0
13	SCI_NL__OPNPDE20100925_205645_000043192093_00172_44815_2411.N1	25SEP2010 20:56:45	25SEP2010 22:08:44	0	0	0	0	0
14	SCI_NL__OPNPDE20100925_220800_000061712093_00172_44815_2412.N1	25SEP2010 22:08:00	25SEP2010 23:50:51	0	0	0	0	0
15	SCI_NL__OPNPDE20100925_234920_000060802093_00173_44816_2413.N1	25SEP2010 23:49:20	26SEP2010 01:30:41	0	0	0	0	0

0.2 Product Quality Indicators

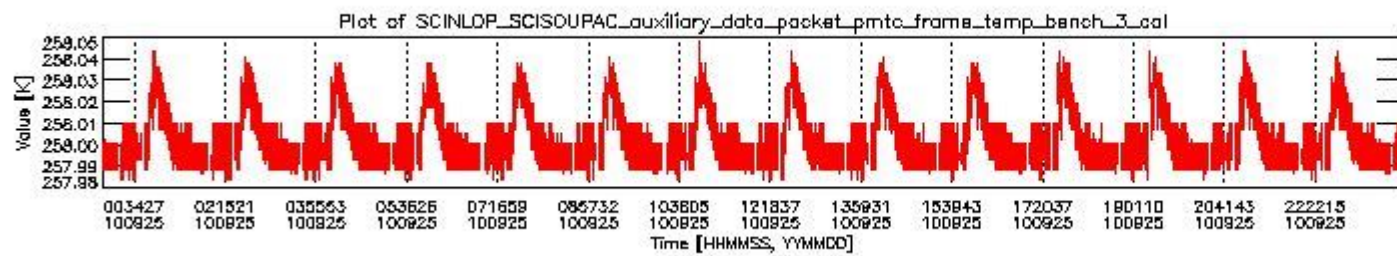
This section shows information about product quality, currently temperatures.



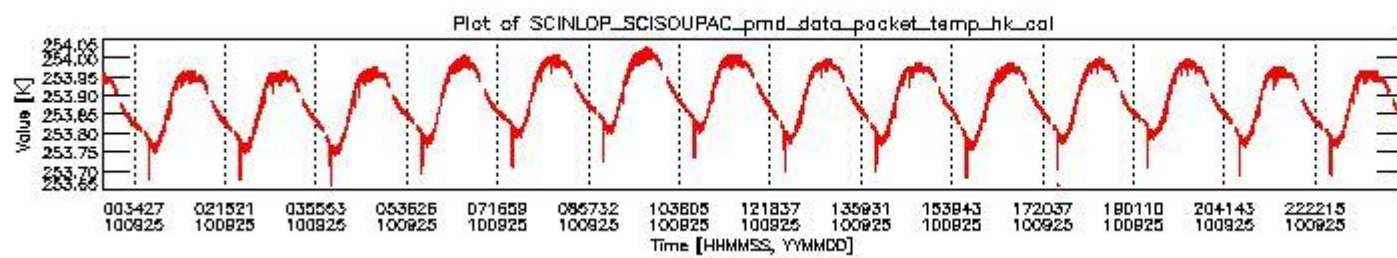
sciamachy_daily_report_level0_Any_version_20100925_0.PNG



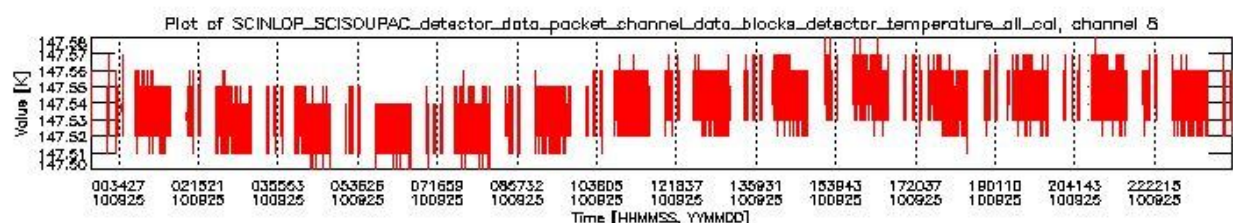
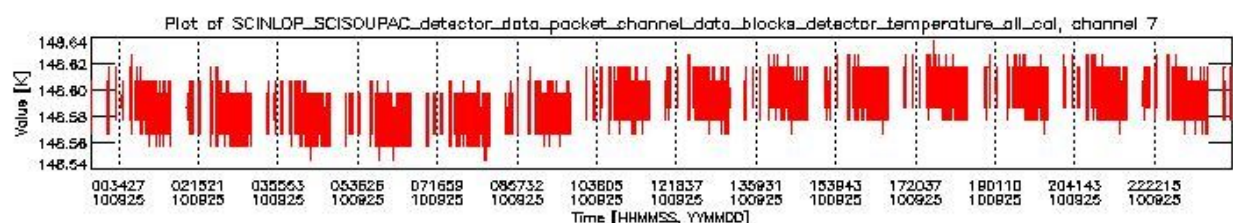
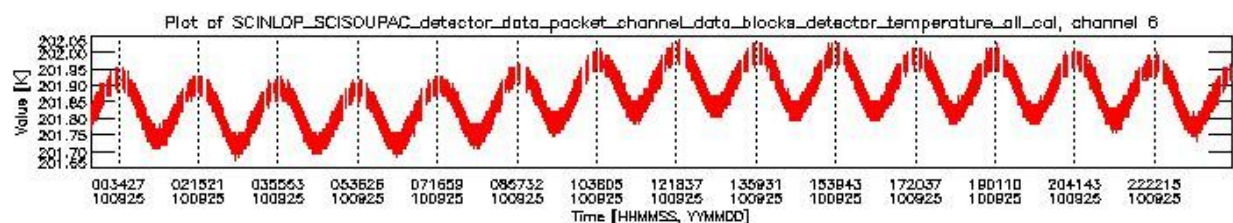
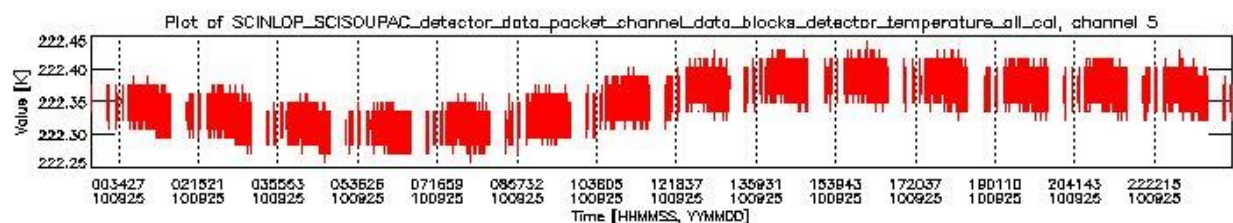
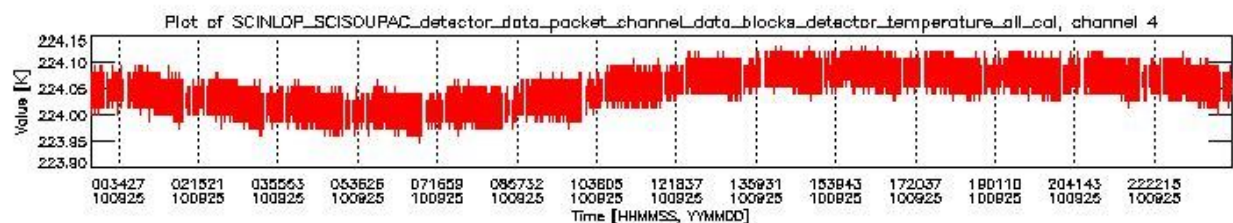
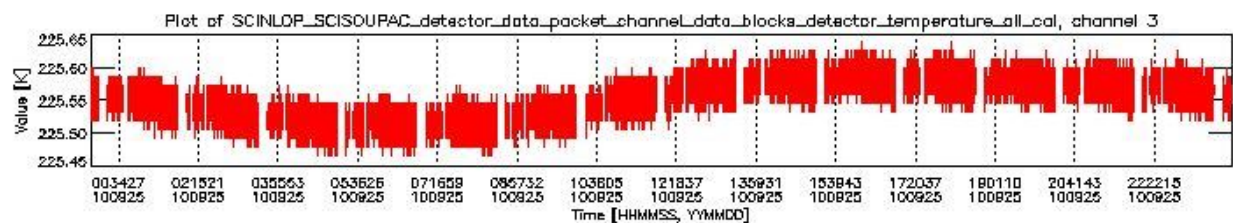
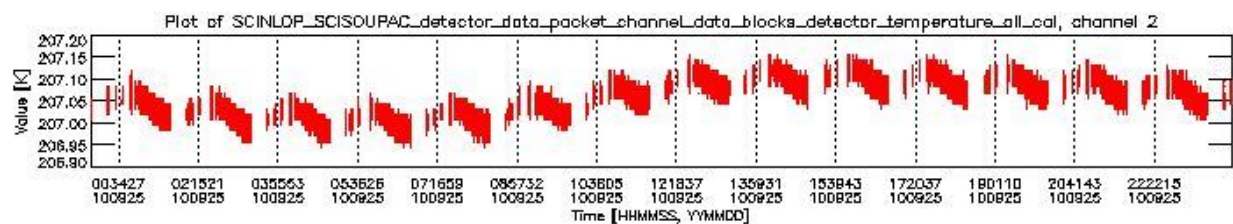
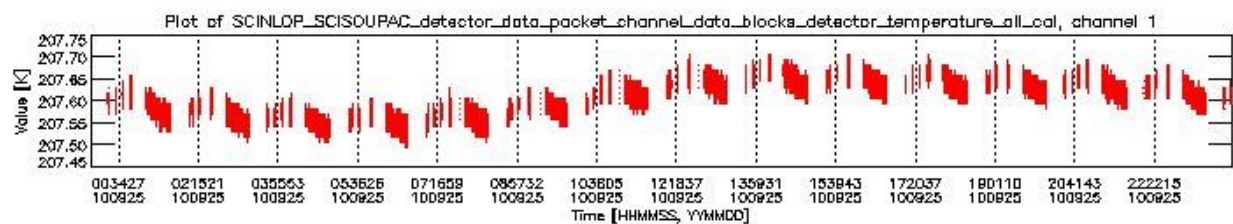
sciamachy_daily_report_level0_Any_version_20100925_1.PNG



sciamachy_daily_report_level0_Any_version_20100925_2.PNG



sciamachy_daily_report_level0_Any_version_20100925_3.PNG

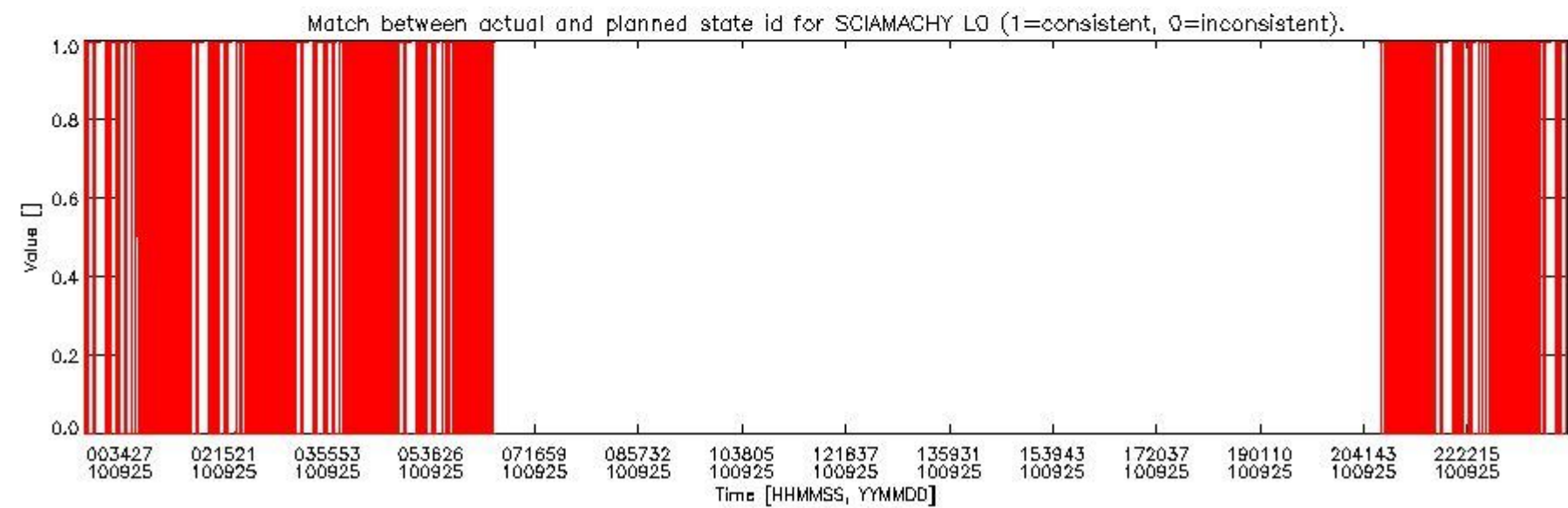
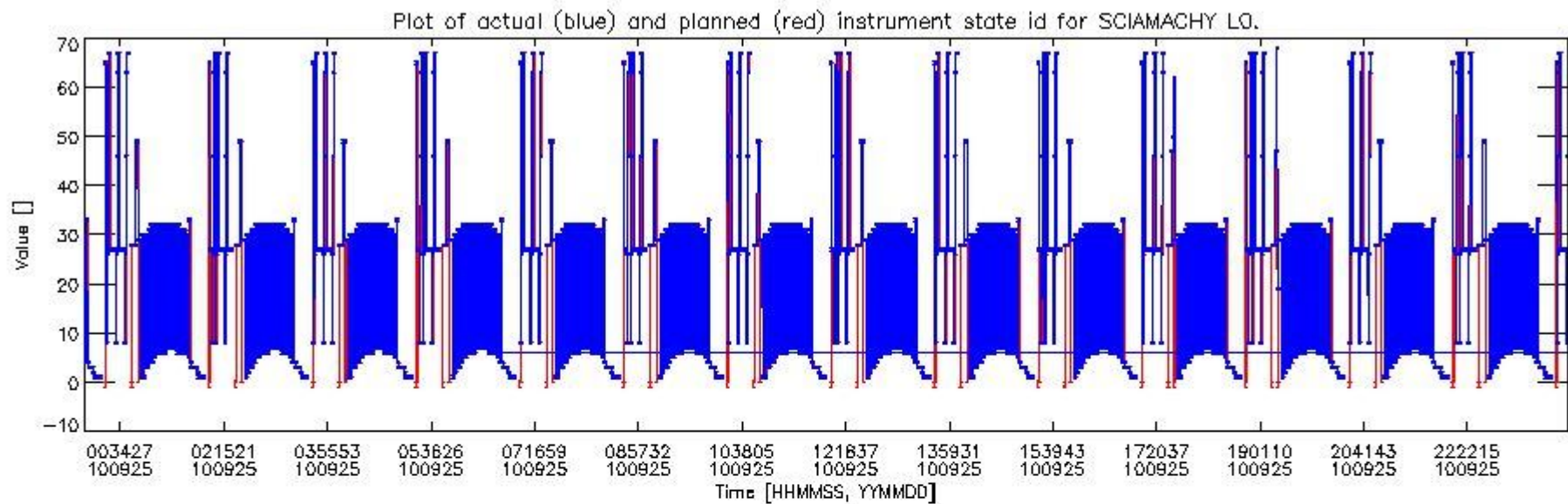


0.3 State monitoring

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: **42091**

#	Actual time	Actual value	Planned time	Planned value
0	25SEP2010 00:00:30.410105	4	25SEP2010 00:00:30.410105	30
1	25SEP2010 00:00:30.660105	4	25SEP2010 00:00:30.660105	30
2	25SEP2010 00:00:30.785105	4	25SEP2010 00:00:30.785105	30
3	25SEP2010 00:00:30.910105	4	25SEP2010 00:00:30.910105	30
4	25SEP2010 00:00:31.035105	4	25SEP2010 00:00:31.035105	30
5	25SEP2010 00:00:31.160105	4	25SEP2010 00:00:31.160105	30
6	25SEP2010 00:00:31.285105	4	25SEP2010 00:00:31.285105	30
7	25SEP2010 00:00:31.410105	4	25SEP2010 00:00:31.410105	30
8	25SEP2010 00:00:31.535105	4	25SEP2010 00:00:31.535105	30
9	25SEP2010 00:00:31.660105	4	25SEP2010 00:00:31.660105	30
10	25SEP2010 00:00:31.785105	4	25SEP2010 00:00:31.785105	30
11	25SEP2010 00:00:31.910105	4	25SEP2010 00:00:31.910105	30
12	25SEP2010 00:00:32.035105	4	25SEP2010 00:00:32.035105	30
13	25SEP2010 00:00:32.160105	4	25SEP2010 00:00:32.160105	30
14	25SEP2010 00:00:32.285105	4	25SEP2010 00:00:32.285105	30
15	25SEP2010 00:00:32.410105	4	25SEP2010 00:00:32.410105	30
16	25SEP2010 00:00:32.535105	4	25SEP2010 00:00:32.535105	30
17	25SEP2010 00:00:32.660105	4	25SEP2010 00:00:32.660105	30
18	25SEP2010 00:00:32.785105	4	25SEP2010 00:00:32.785105	30
19	25SEP2010 00:00:32.910105	4	25SEP2010 00:00:32.910105	30
...

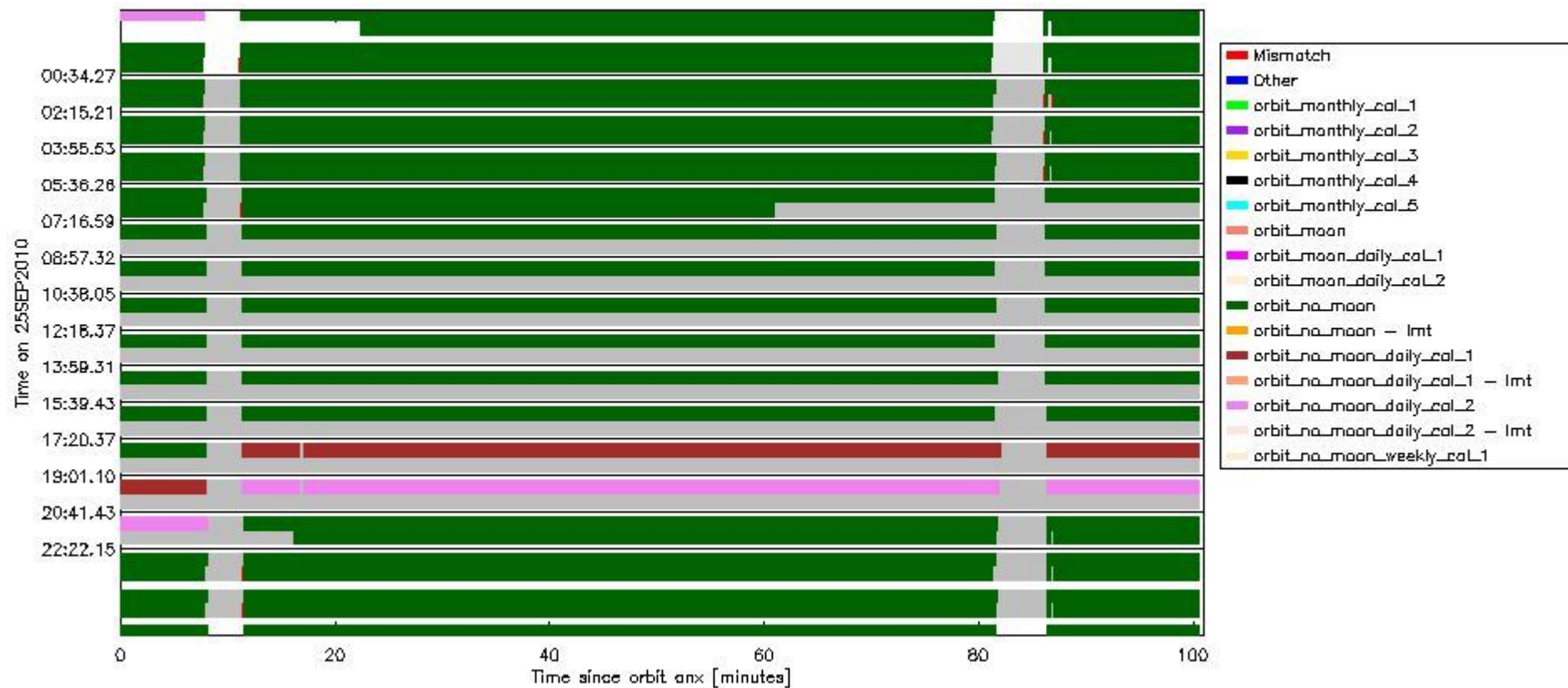


sciamachy_daily_report_level0_Any_version_20100925_5.PNG

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 25SEP2010.
 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_Any_version_20100925_6.PNG

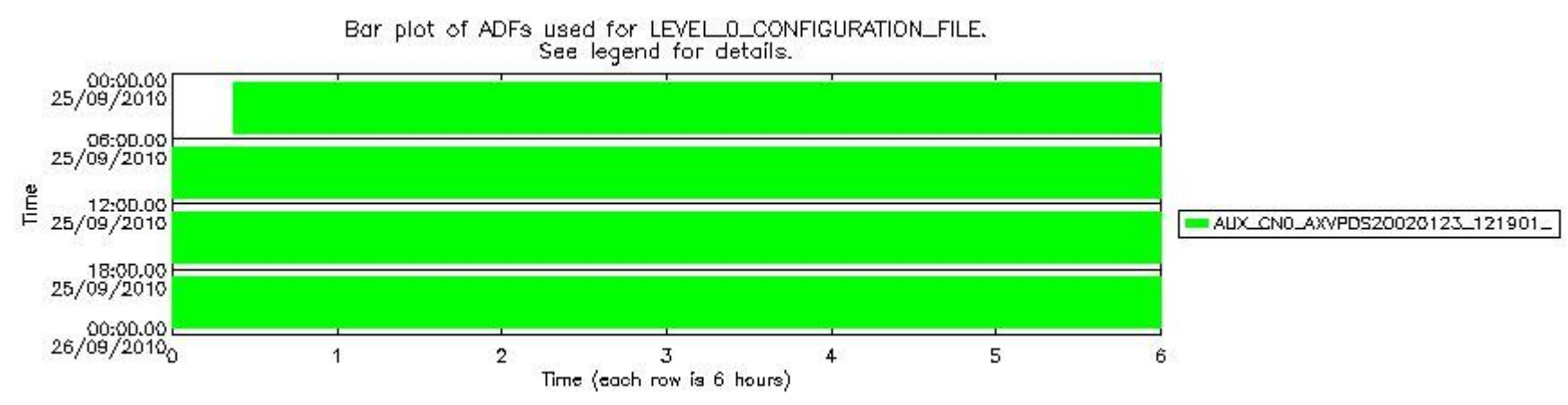
0.4 ADF monitoring

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

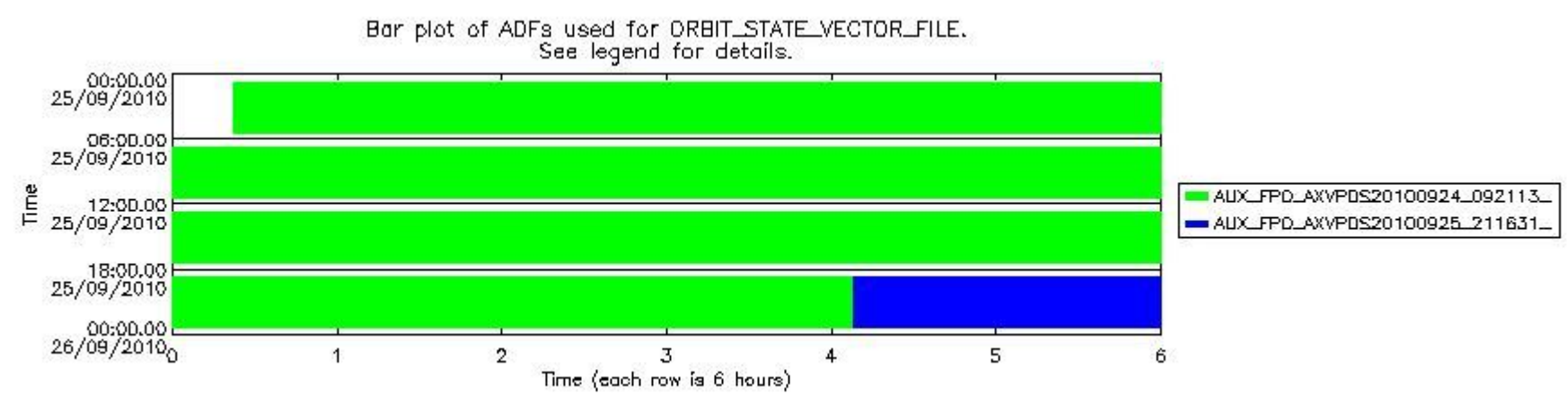
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

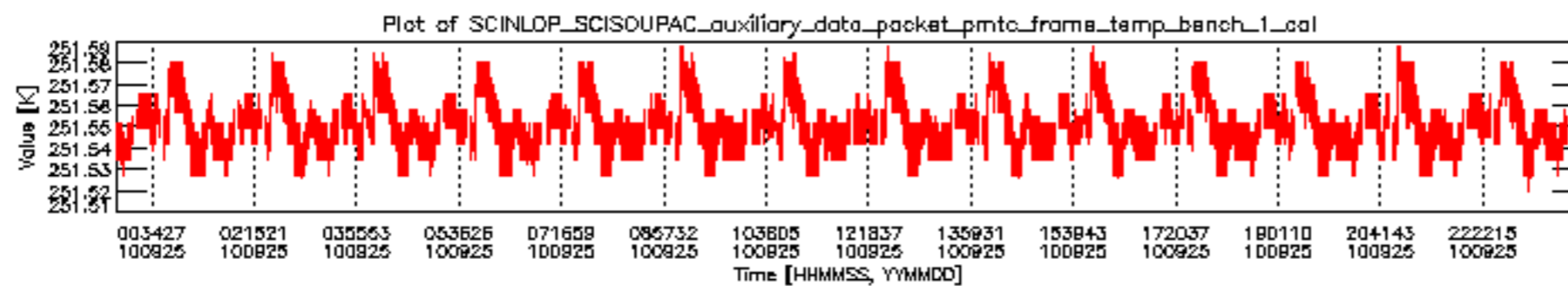
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20100924_092113_20100923_182346_20101003_213034
2	AUX_FPO_AXVPDS20100925_211631_20100924_193244_20101004_205856

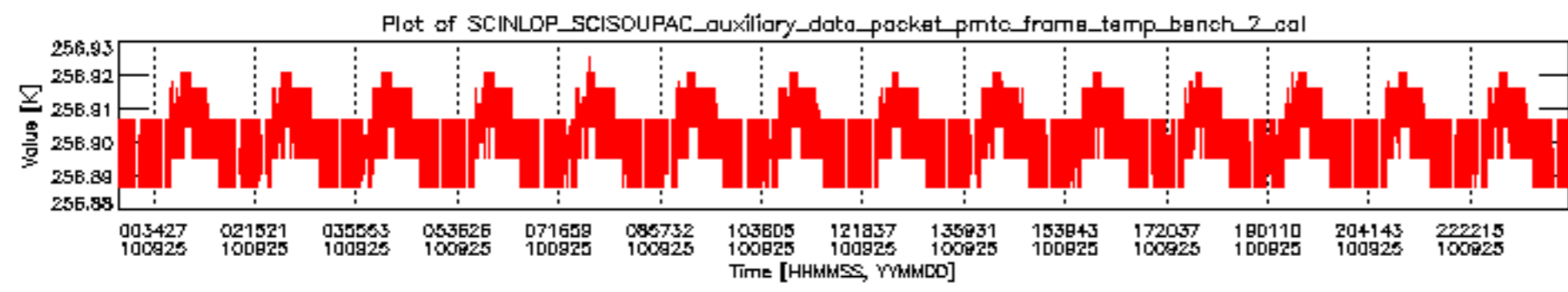


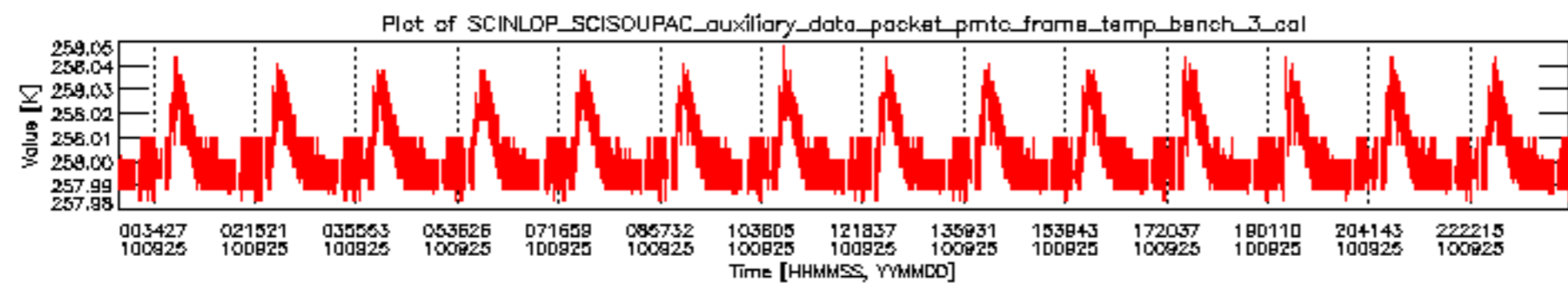
sciamachy_daily_report_level0_Any_version_20100925_7.PNG

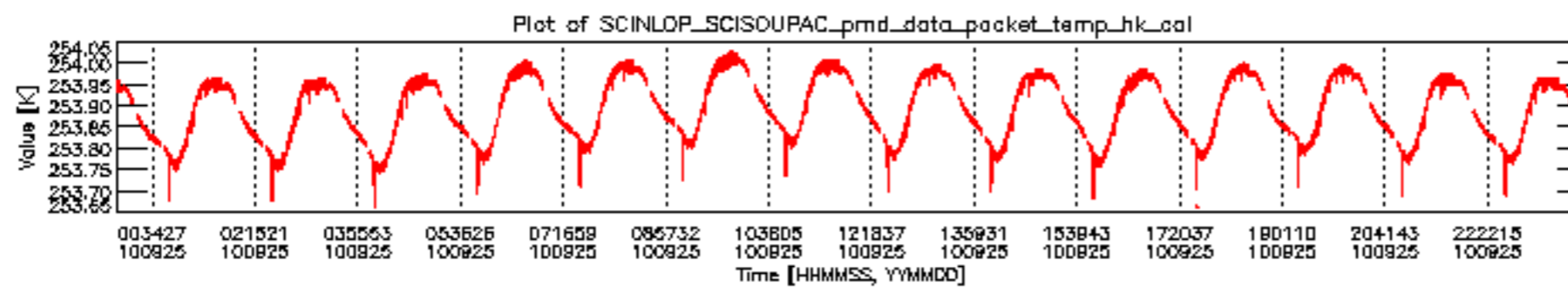


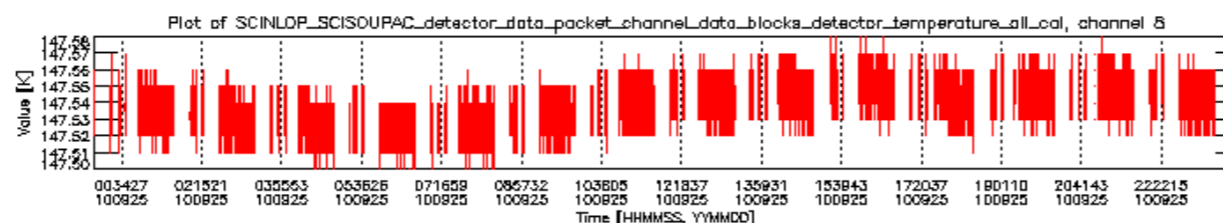
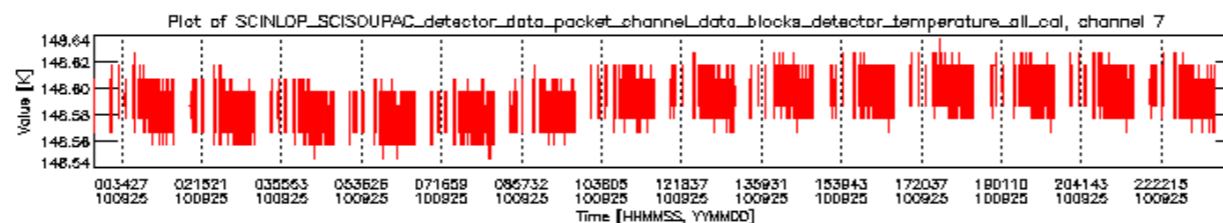
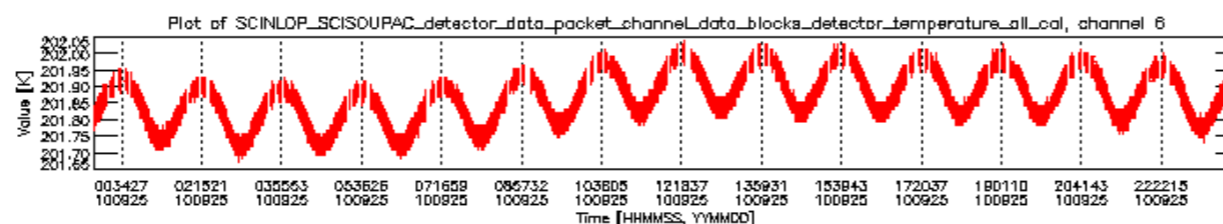
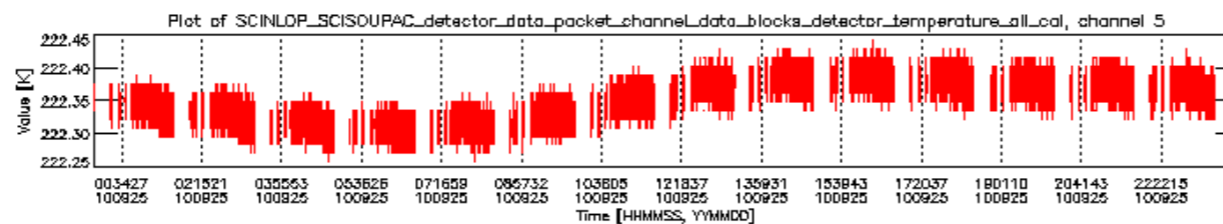
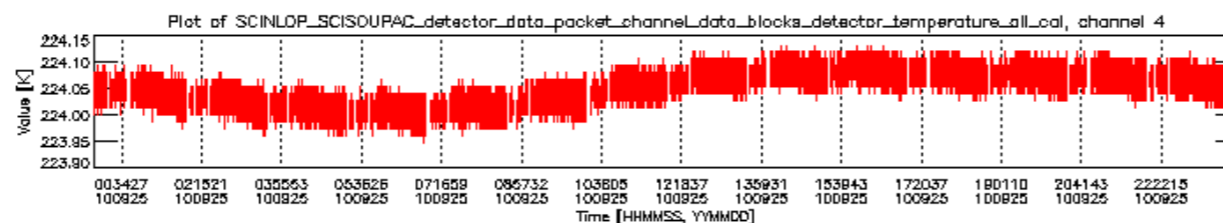
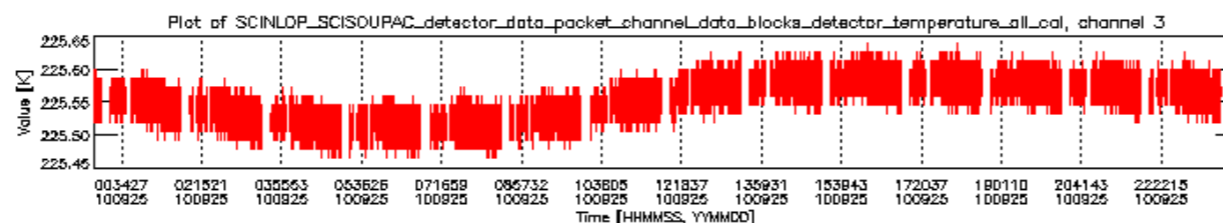
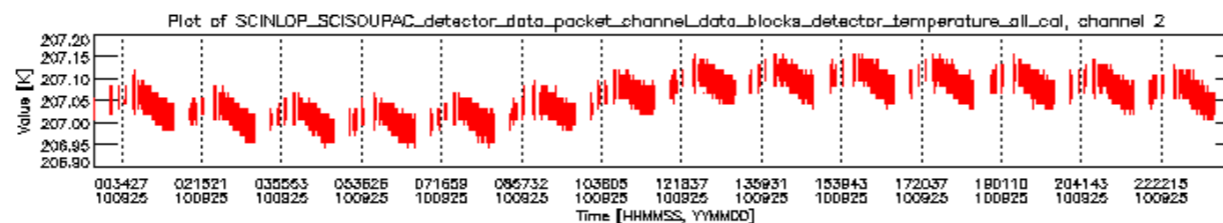
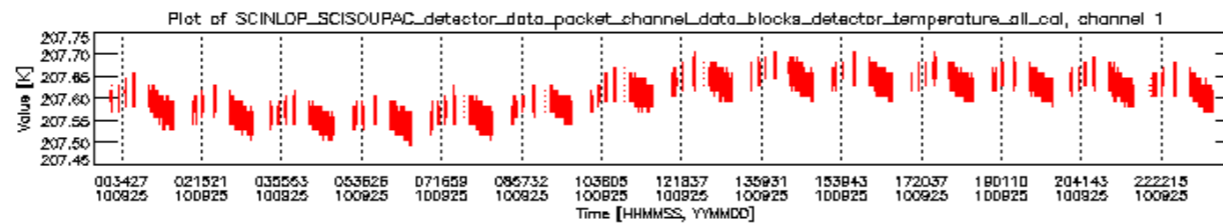
sciamachy_daily_report_level0_Any_version_20100925_8.PNG

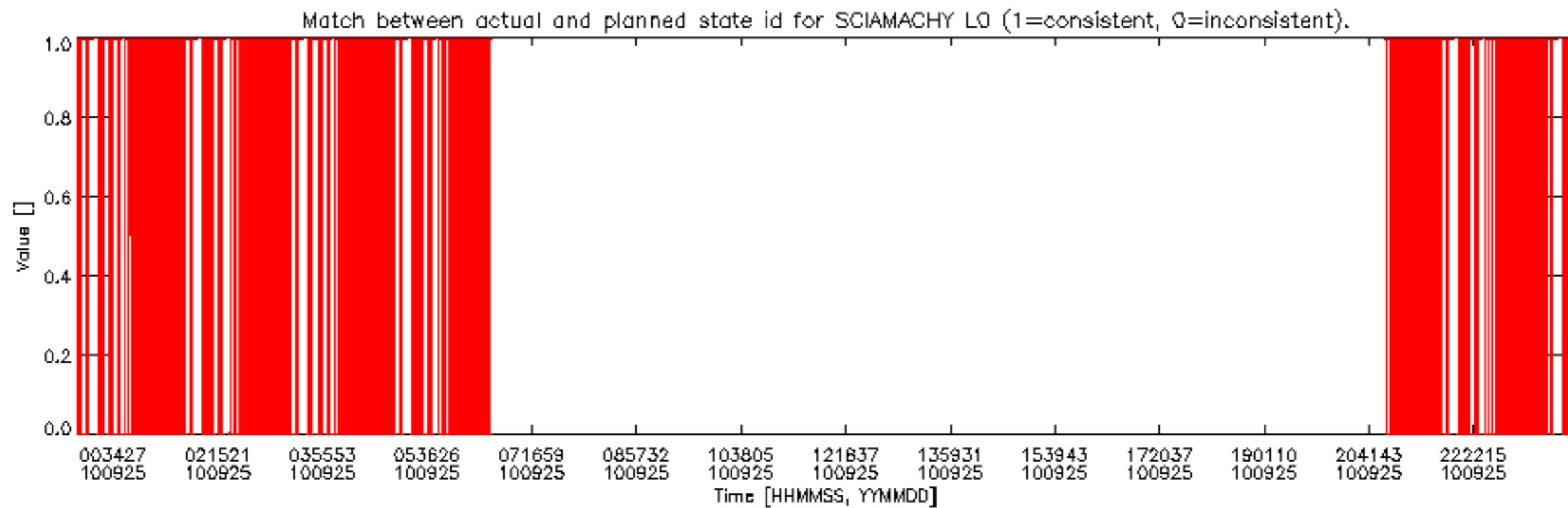
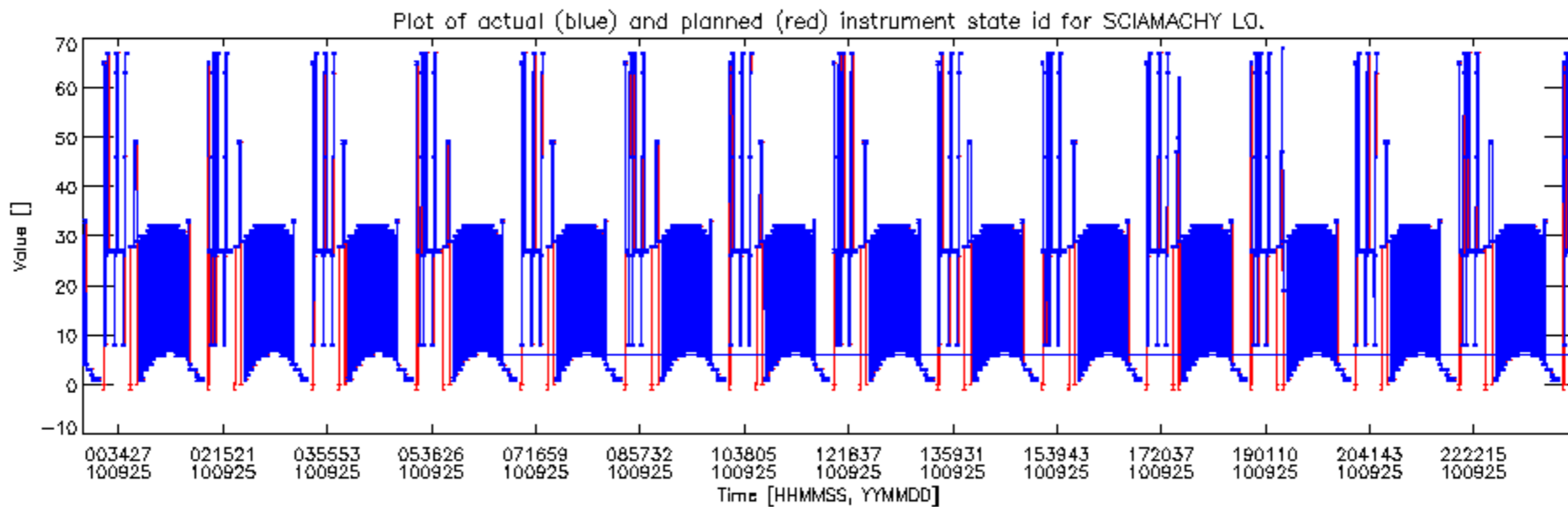












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
 Each row indicates an orbit. A light gray colour indicates the time span of 25SEP2010.
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