

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	05OCT2010 02:26:56
Data source version	<Any version>
Processing scope for products	28SEP2010 00:00:00 to 29SEP2010 00:00:00
Start time of first product within scope	28SEP2010 00:28:25
Stop time of last product within scope	29SEP2010 01:35:20
Total number of Level 0 products	20
Number of Level 0 products with errors	4

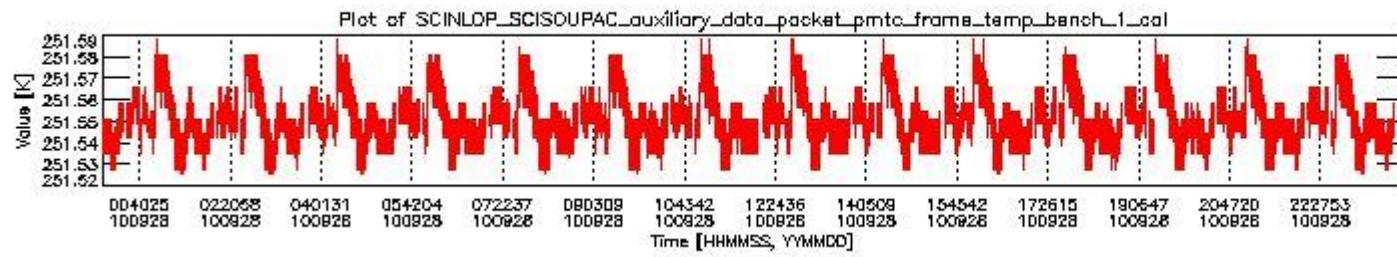
0.1.2 Summary per product

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

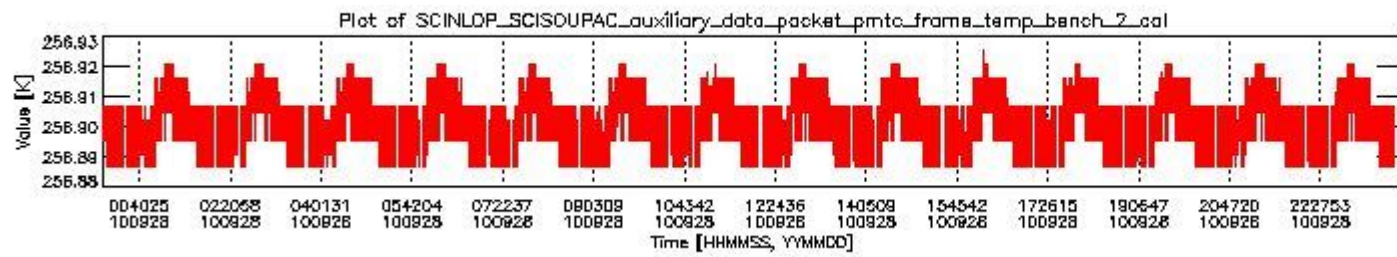
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100928_002825_000055392093_00202_44845_2426.N1	28SEP2010 00:28:25	28SEP2010 02:00:44	0	0	0	0	0
1	SCI_NL__OPNPDE20100928_020649_000043762093_00203_44846_2427.N1	28SEP2010 02:06:49	28SEP2010 03:19:45	0	0	0	0	0
2	SCI_NL__OPNPDE20100928_031945_000061482093_00204_44847_2428.N1	28SEP2010 03:19:45	28SEP2010 05:02:13	0	0	0	0	0
3	SCI_NL__OPNPDE20100928_050213_000060492093_00205_44848_2429.N1	28SEP2010 05:02:13	28SEP2010 06:43:03	0	0	0	0	0
4	SCI_NL__OPNPDK20100928_064303_000041012093_00206_44849_2591.N1	28SEP2010 06:43:03	28SEP2010 07:51:24	0	0	0	0	0
5	SCI_NL__OPNPDK20100928_075015_000060492093_00207_44850_2592.N1	28SEP2010 07:50:15	28SEP2010 09:31:05	0	0	0	0	0
6	SCI_NL__OPNPDK20100928_092956_000060922093_00208_44851_2593.N1	28SEP2010 09:29:56	28SEP2010 11:11:28	0	0	0	0	0
7	SCI_NL__OPNPDK20100928_111032_000000002093_00209_44852_2596.N1	28SEP2010 11:10:32	28SEP2010 11:10:32	1	1	0	0	0
8	SCI_NL__OPNPDK20100928_111128_000000002093_00209_44852_2599.N1	28SEP2010 11:11:28	28SEP2010 11:11:28	1	1	0	0	0
9	SCI_NL__OPNPDK20100928_111333_000003172093_00209_44852_2609.N1	28SEP2010 11:13:33	28SEP2010 11:18:50	1	1	1	0	0
10	SCI_NL__OPNPDK20100928_111850_000001802093_00209_44852_2614.N1	28SEP2010 11:18:50	28SEP2010 11:21:50	1	1	0	0	0
11	SCI_NL__OPNPDK20100928_112150_000053582093_00209_44852_2615.N1	28SEP2010 11:21:50	28SEP2010 12:51:09	0	0	0	0	0
12	SCI_NL__OPNPDK20100928_125109_000059122093_00210_44853_2616.N1	28SEP2010 12:51:09	28SEP2010 14:29:41	0	0	0	0	0
13	SCI_NL__OPNPDK20100928_142832_000058562093_00211_44854_2617.N1	28SEP2010 14:28:32	28SEP2010 16:06:08	0	0	0	0	0
14	SCI_NL__OPNPDK20100928_160513_000060012093_00212_44855_2618.N1	28SEP2010 16:05:13	28SEP2010 17:45:13	0	0	0	0	0
15	SCI_NL__OPNPDK20100928_174417_000059582093_00213_44856_2619.N1	28SEP2010 17:44:17	28SEP2010 19:23:36	0	0	0	0	0
16	SCI_NL__OPNPDK20100928_192216_000060362093_00214_44857_2620.N1	28SEP2010 19:22:16	28SEP2010 21:02:52	0	0	0	0	0
17	SCI_NL__OPNPDE20100928_210252_000043622093_00215_44858_2430.N1	28SEP2010 21:02:52	28SEP2010 22:15:34	0	0	0	0	0
18	SCI_NL__OPNPDE20100928_221451_000061692093_00215_44858_2431.N1	28SEP2010 22:14:51	28SEP2010 23:57:39	0	0	0	0	0
19	SCI_NL__OPNPDE20100928_235655_000059052093_00216_44859_2432.N1	28SEP2010 23:56:55	29SEP2010 01:35:20	0	0	0	0	0

0.2 Product Quality Indicators

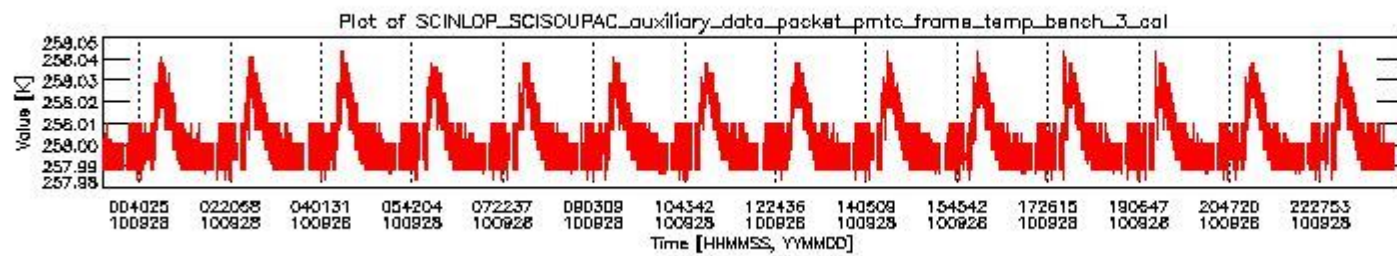
This section shows information about product quality, currently temperatures.



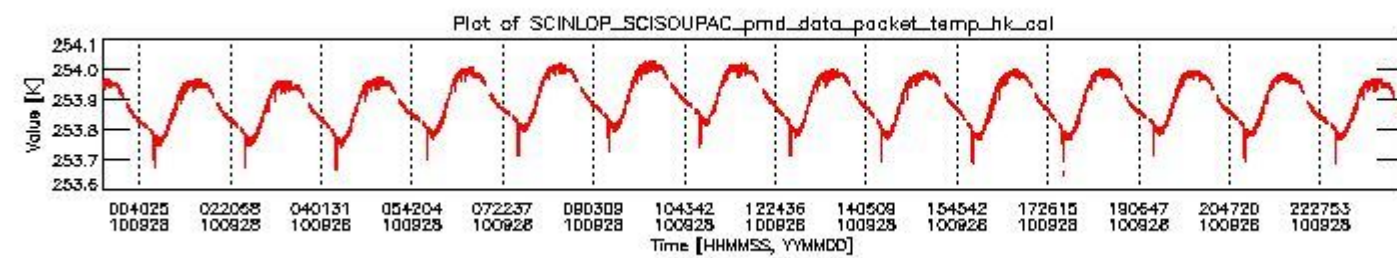
sciamachy_daily_report_level0_Any_version_20100928_0.PNG



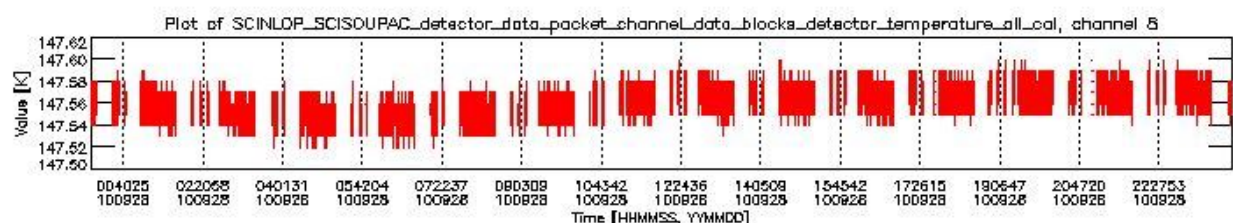
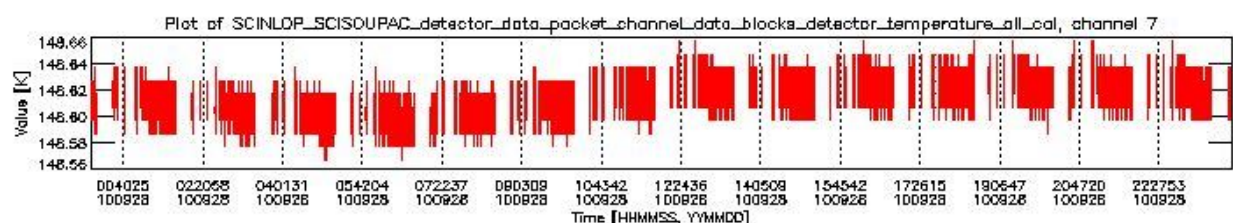
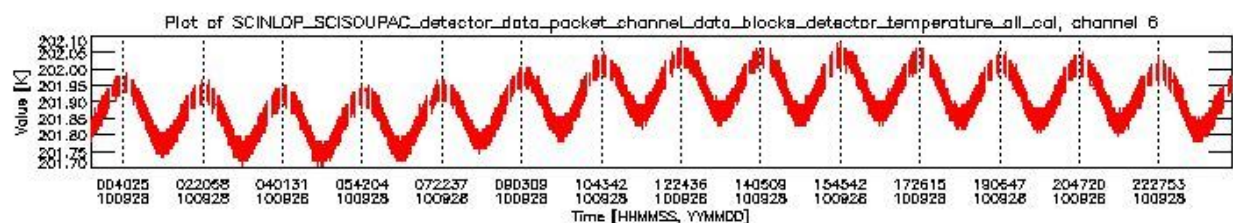
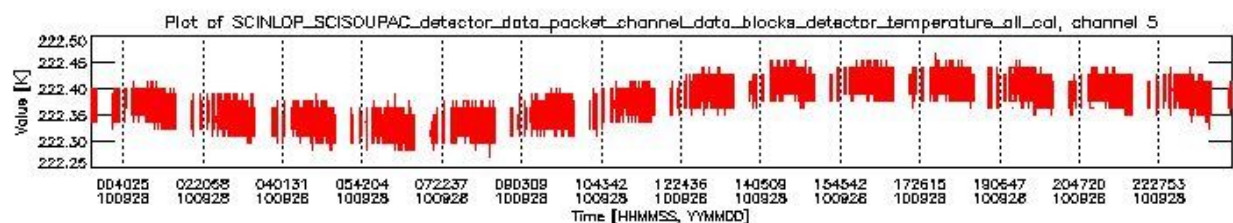
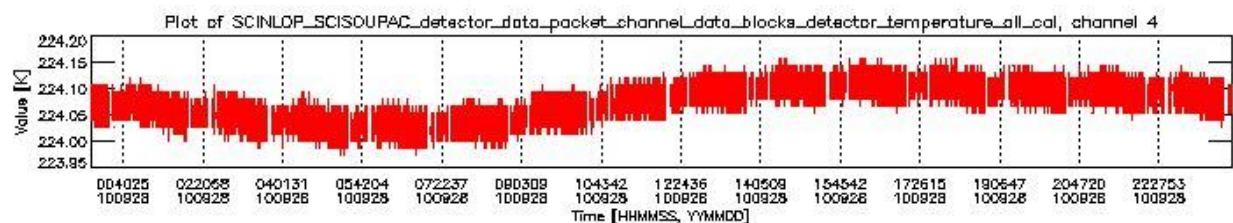
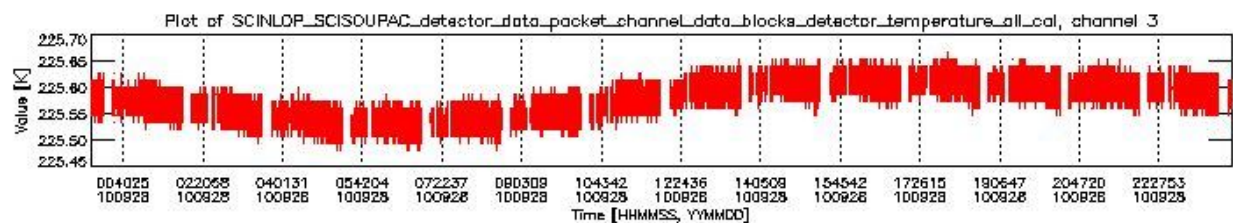
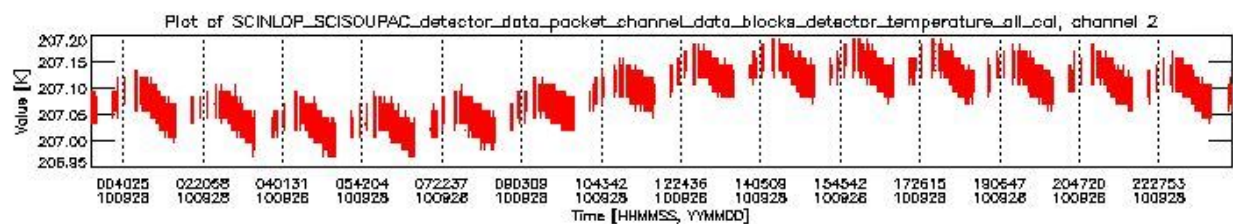
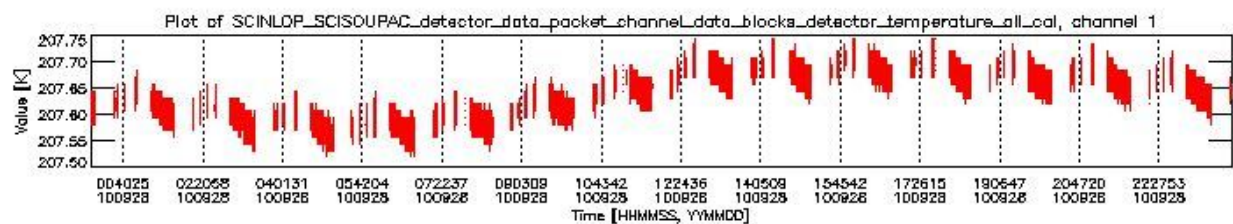
sciamachy_daily_report_level0_Any_version_20100928_1.PNG



sciamachy_daily_report_level0_Any_version_20100928_2.PNG



sciamachy_daily_report_level0_Any_version_20100928_3.PNG

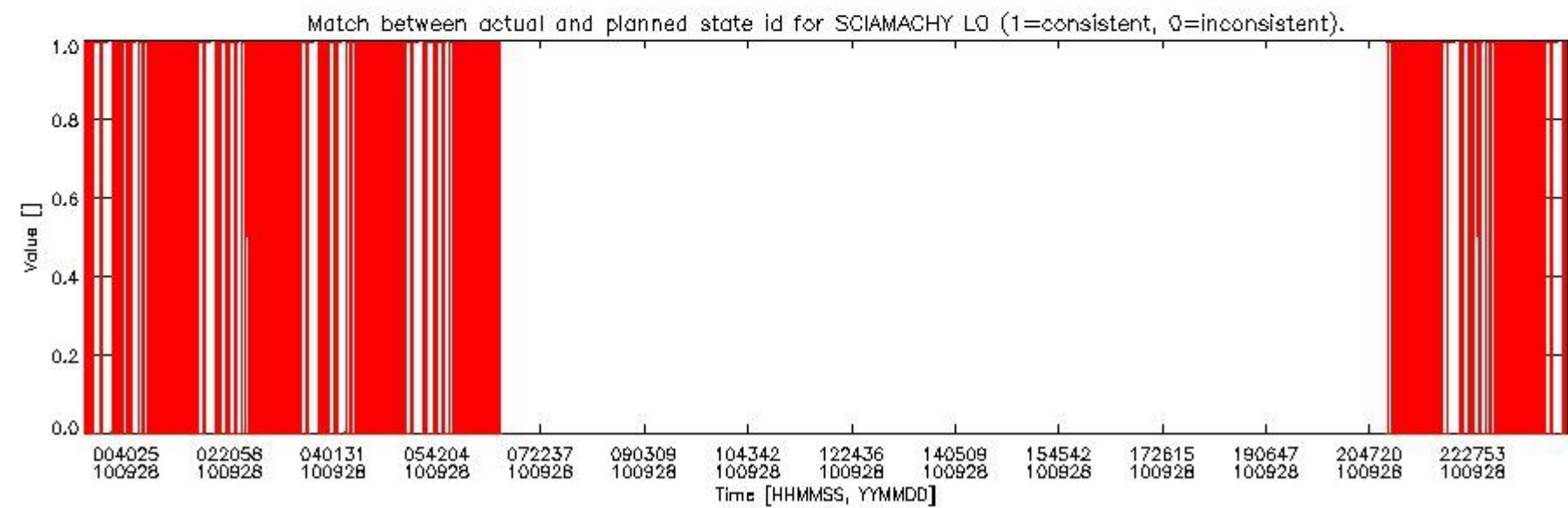
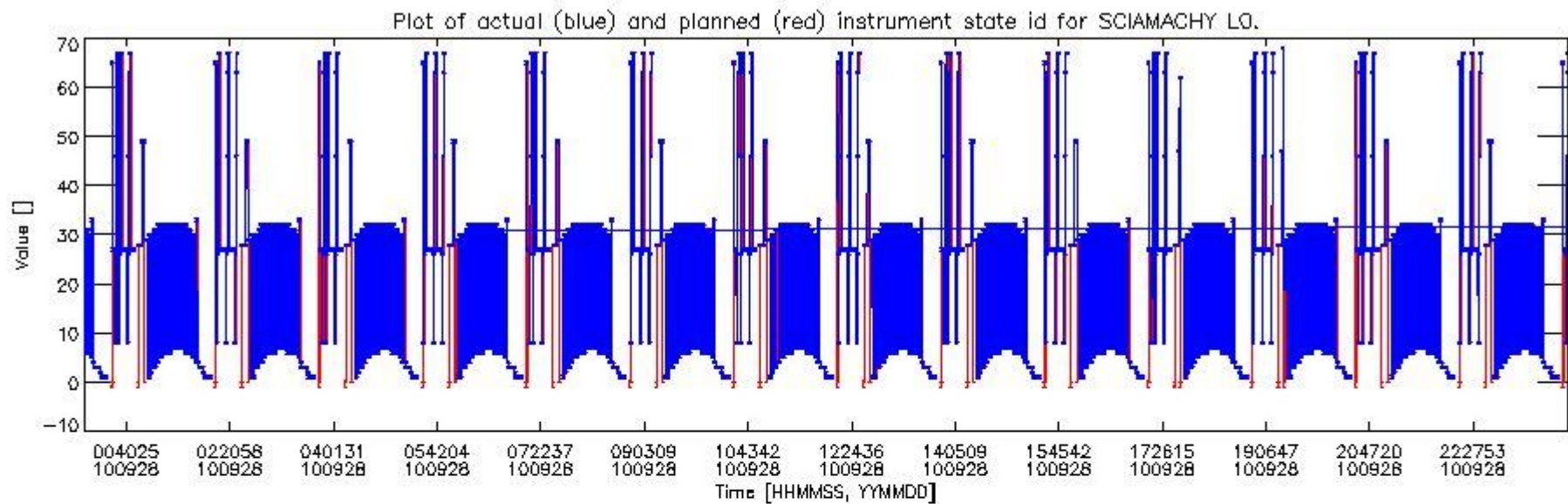


0.3 State monitoring

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: **43036**

#	Actual time	Actual value	Planned time	Planned value
0	28SEP2010 00:00:37.247542	31	28SEP2010 00:00:37.247542	6
1	28SEP2010 00:00:37.872542	31	28SEP2010 00:00:37.872542	6
2	28SEP2010 00:00:38.247542	31	28SEP2010 00:00:38.247542	6
3	28SEP2010 00:00:38.622542	31	28SEP2010 00:00:38.622542	6
4	28SEP2010 00:00:39.185042	31	28SEP2010 00:00:39.185042	6
5	28SEP2010 00:00:39.560042	31	28SEP2010 00:00:39.560042	6
6	28SEP2010 00:00:39.935042	31	28SEP2010 00:00:39.935042	6
7	28SEP2010 00:00:40.310042	31	28SEP2010 00:00:40.310042	6
8	28SEP2010 00:00:40.872542	31	28SEP2010 00:00:40.872542	6
9	28SEP2010 00:00:41.247542	31	28SEP2010 00:00:41.247542	6
10	28SEP2010 00:00:41.622542	31	28SEP2010 00:00:41.622542	6
11	28SEP2010 00:00:41.997542	31	28SEP2010 00:00:41.997542	6
12	28SEP2010 00:00:42.247542	31	28SEP2010 00:00:42.247542	6
13	28SEP2010 00:00:42.560042	31	28SEP2010 00:00:42.560042	6
14	28SEP2010 00:00:42.935042	31	28SEP2010 00:00:42.935042	6
15	28SEP2010 00:00:43.310042	31	28SEP2010 00:00:43.310042	6
16	28SEP2010 00:00:43.685042	31	28SEP2010 00:00:43.685042	6
17	28SEP2010 00:00:44.247542	31	28SEP2010 00:00:44.247542	6
18	28SEP2010 00:00:44.622542	31	28SEP2010 00:00:44.622542	6
19	28SEP2010 00:00:44.997542	31	28SEP2010 00:00:44.997542	6
...

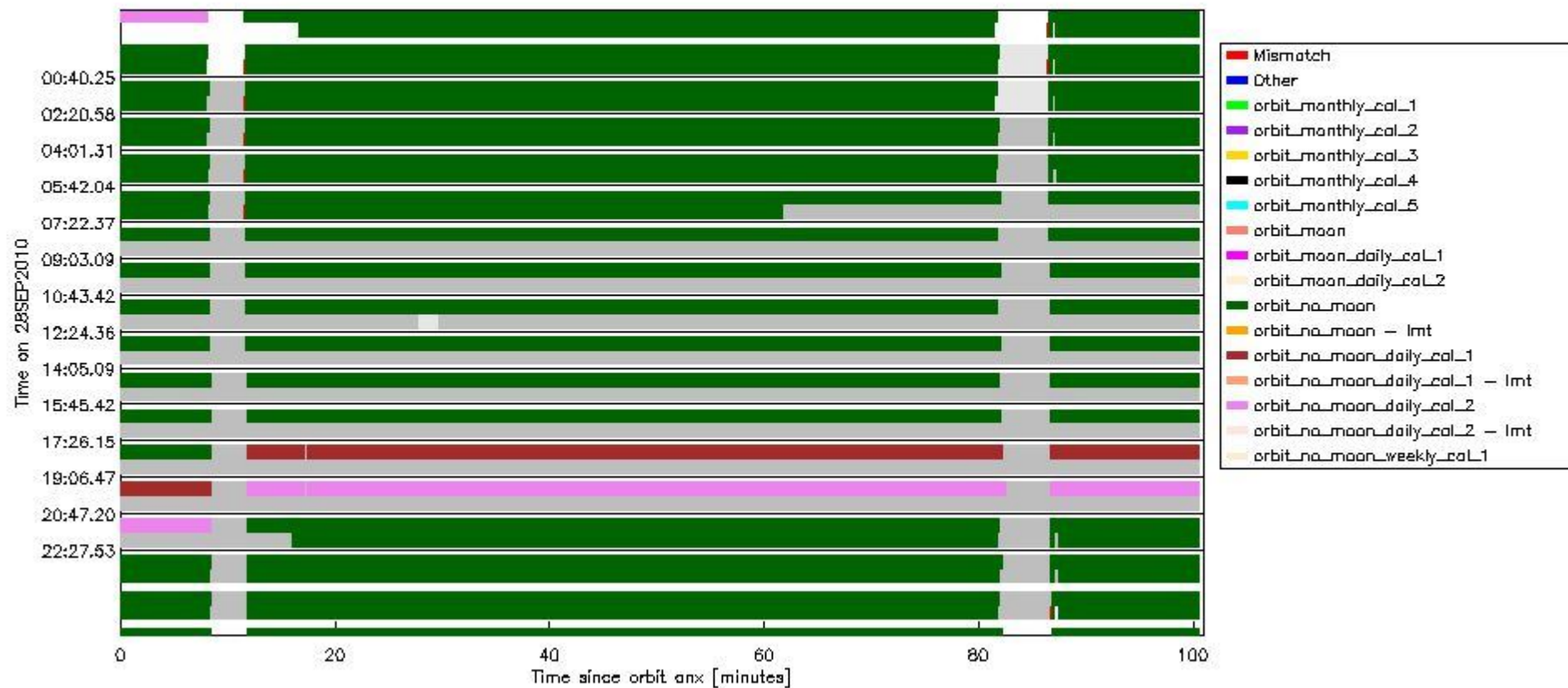


sciamachy_daily_report_level0_Any_version_20100928_5.PNG

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 28SEP2010.
 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_20100928_6.PNG

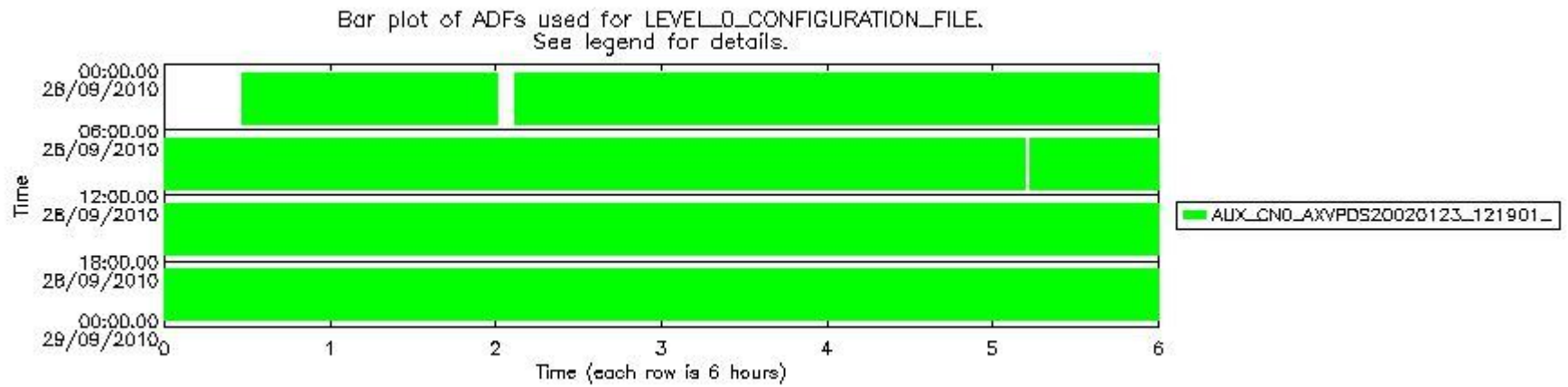
0.4 ADF monitoring

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

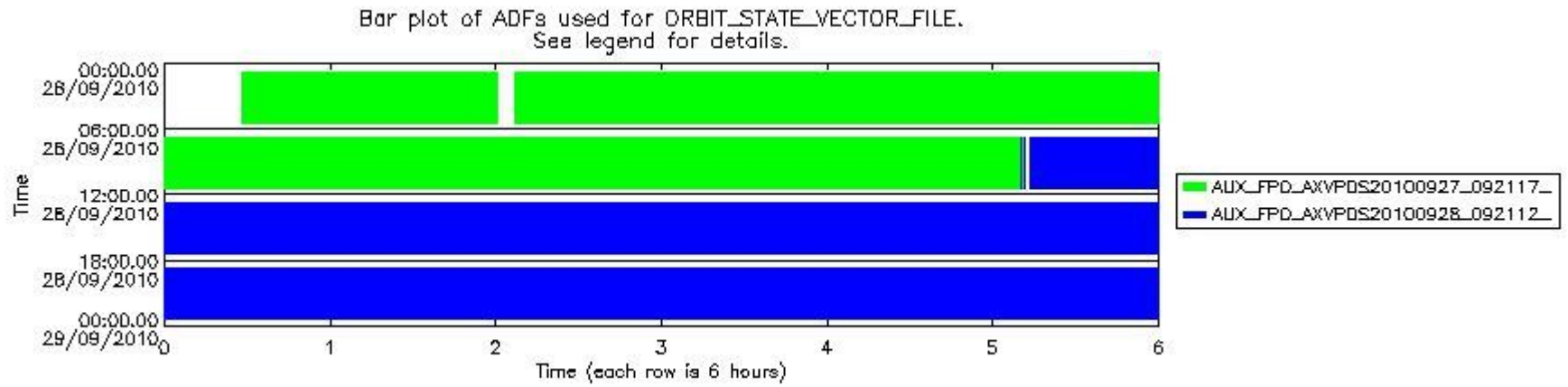
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

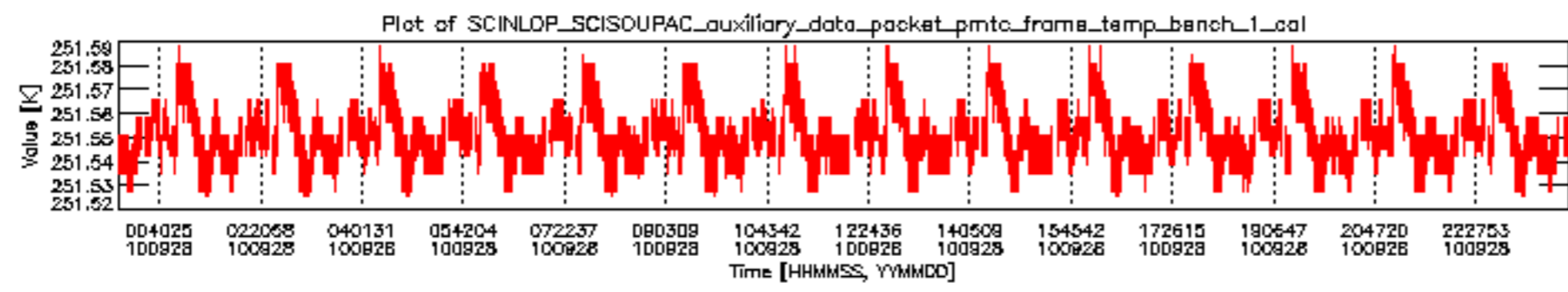
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20100927_092117_20100926_182930_20101006_213618
2	AUX_FPO_AXVPDS20100928_092112_20100927_193829_20101007_210441

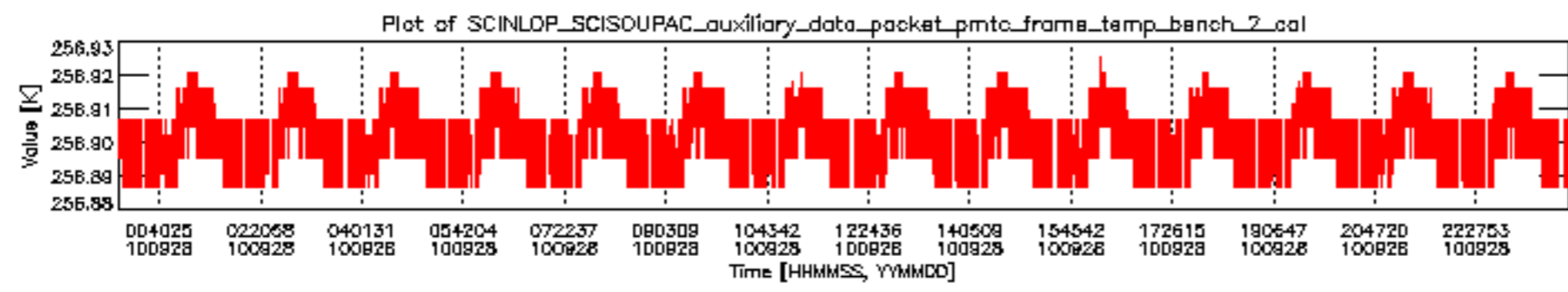


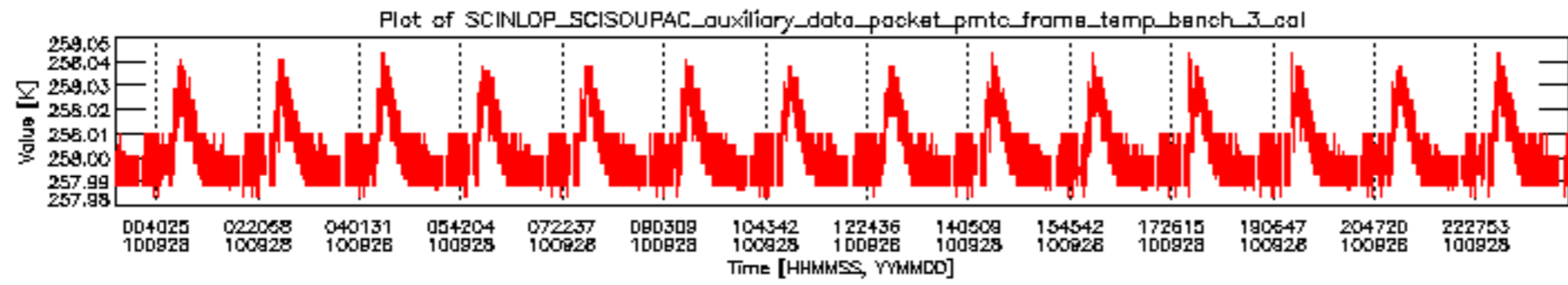
sciamachy_daily_report_level0_Any_version_20100928_7.PNG

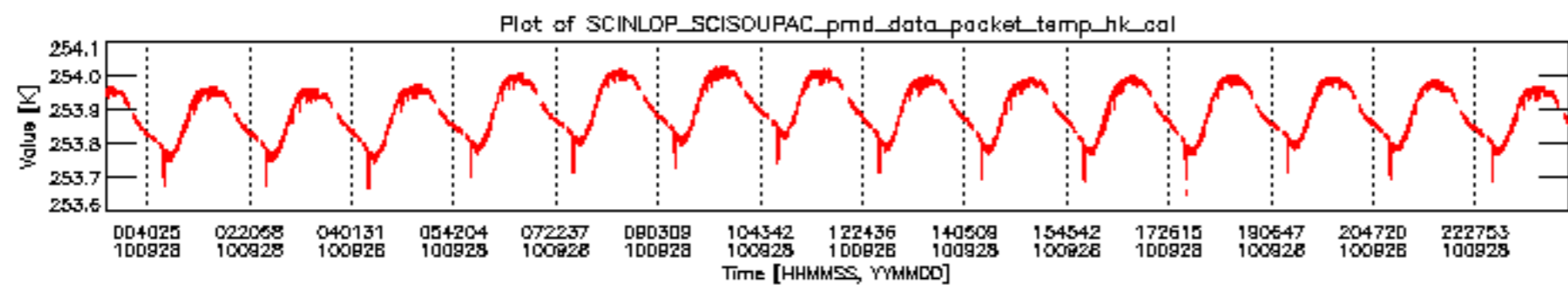


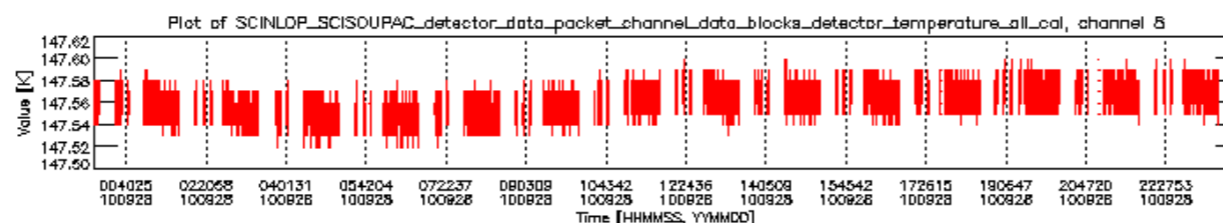
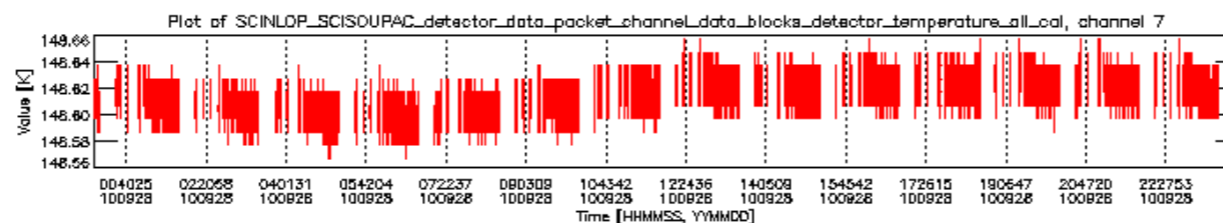
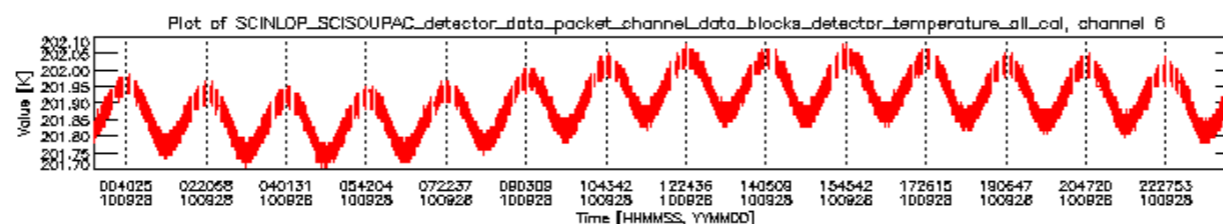
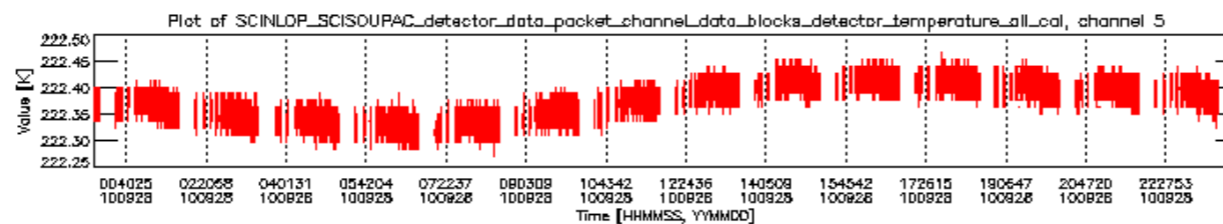
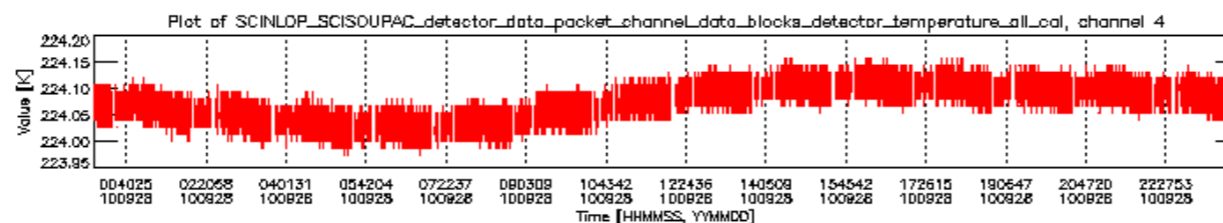
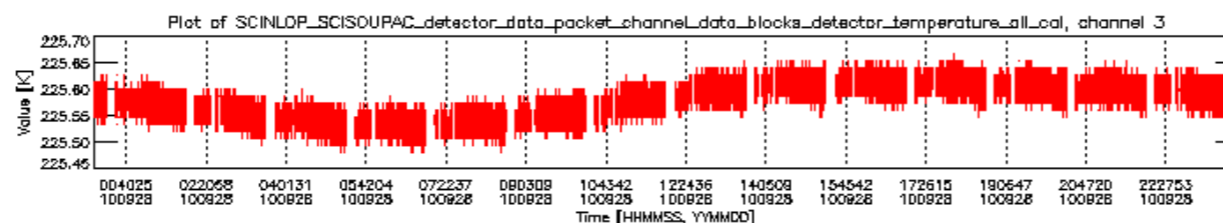
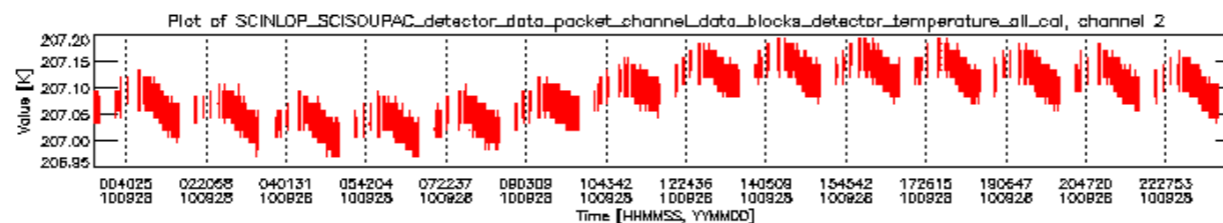
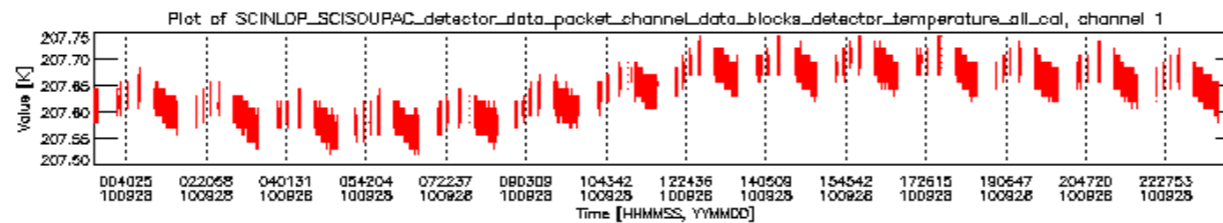
sciamachy_daily_report_level0_Any_version_20100928_8.PNG

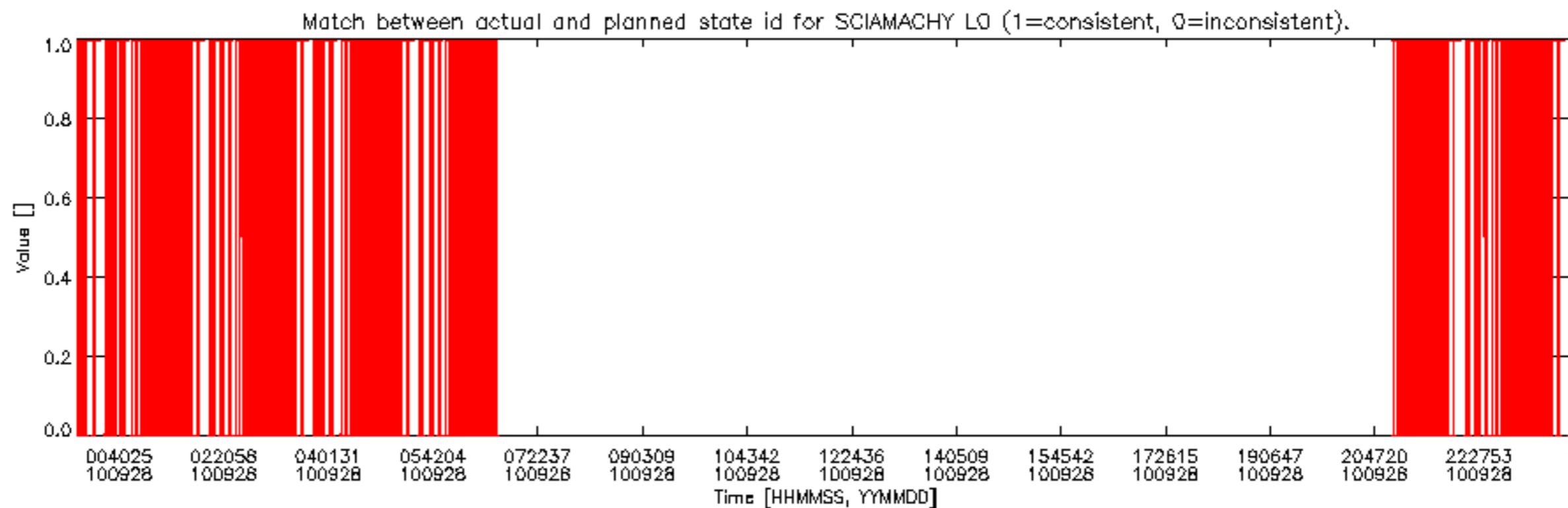
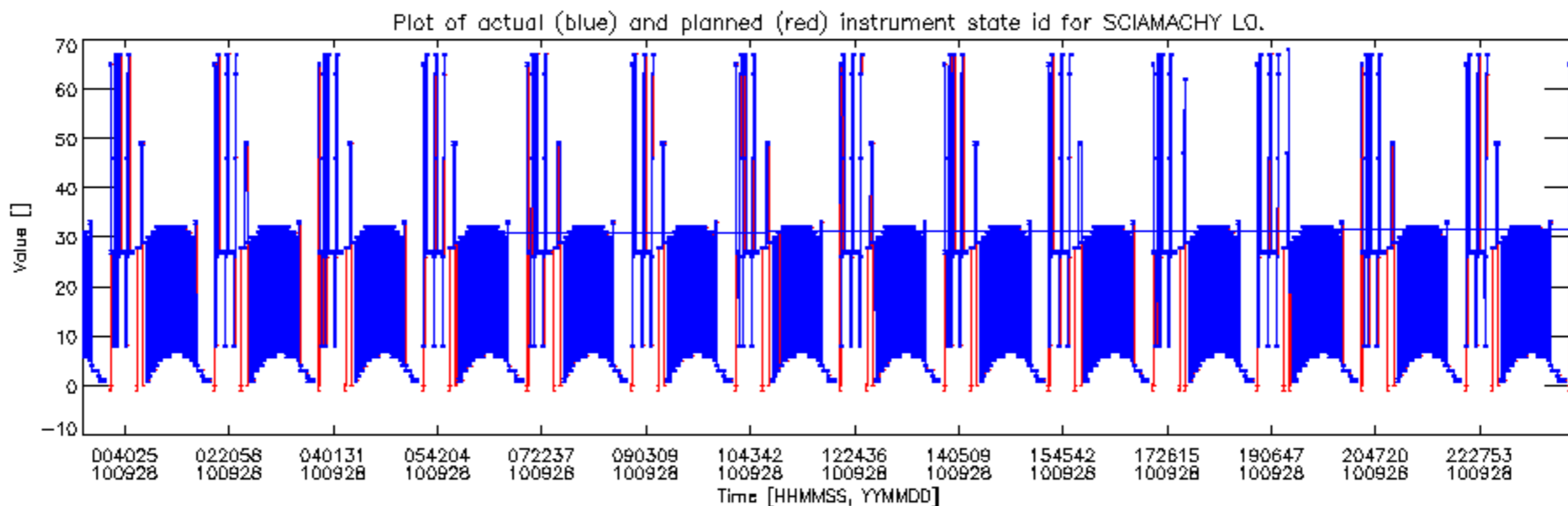




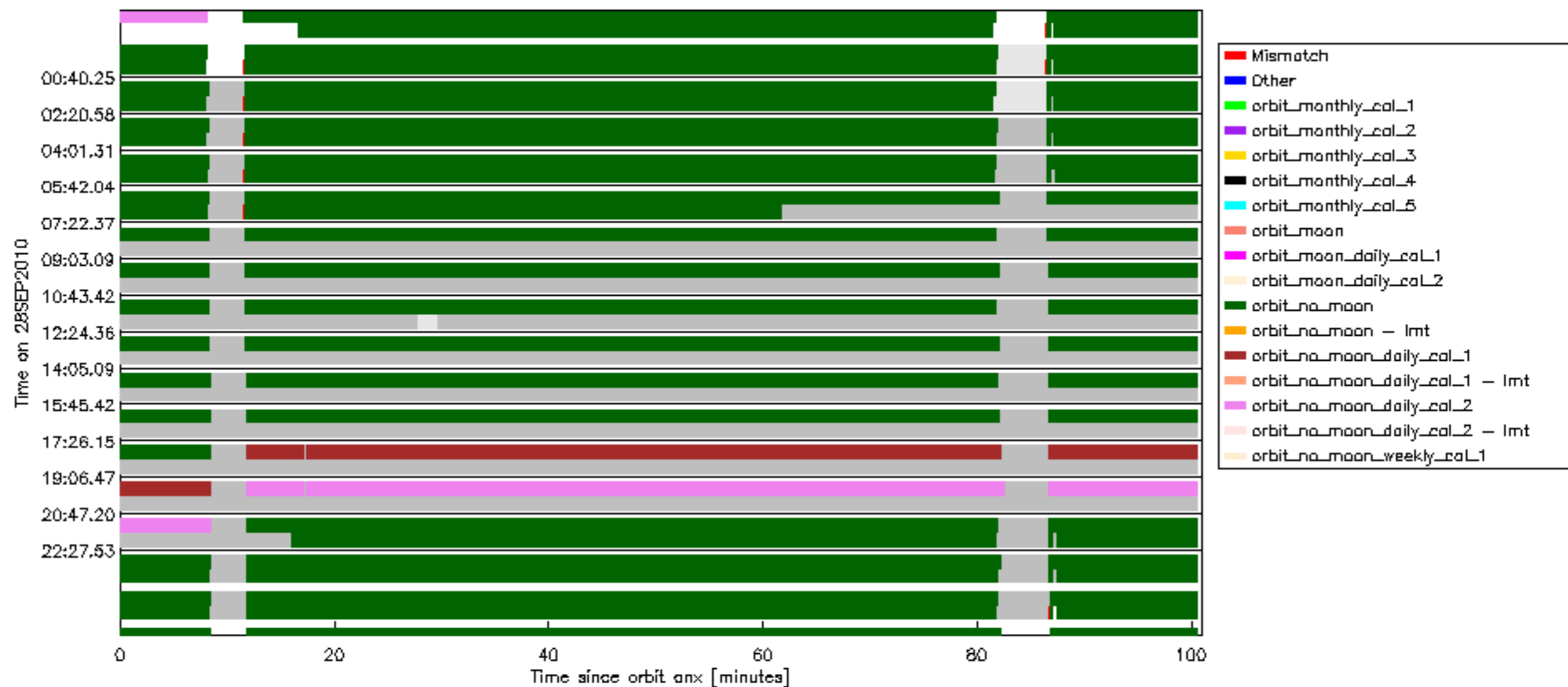


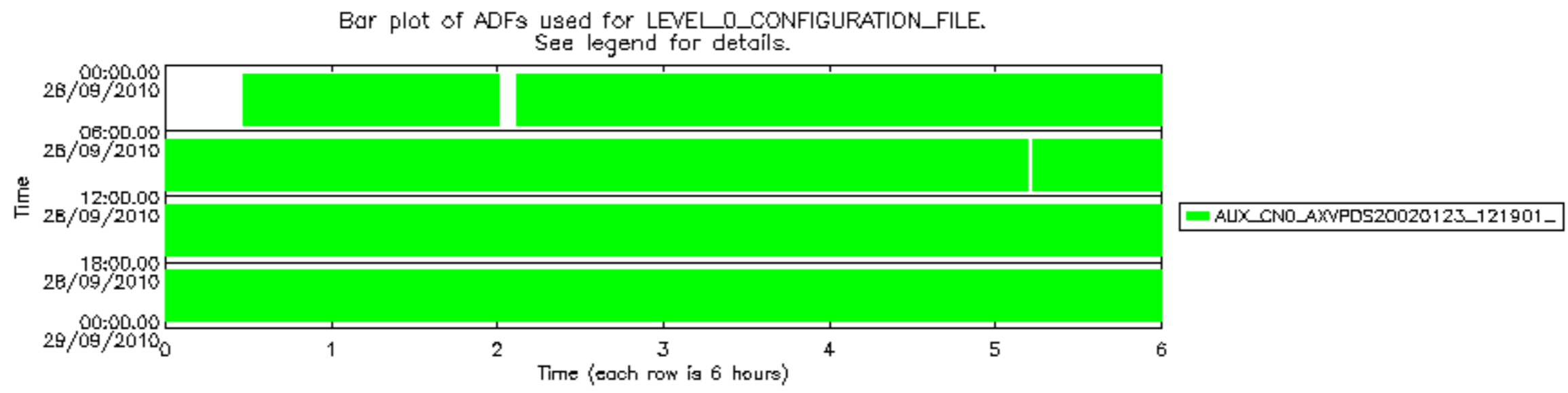


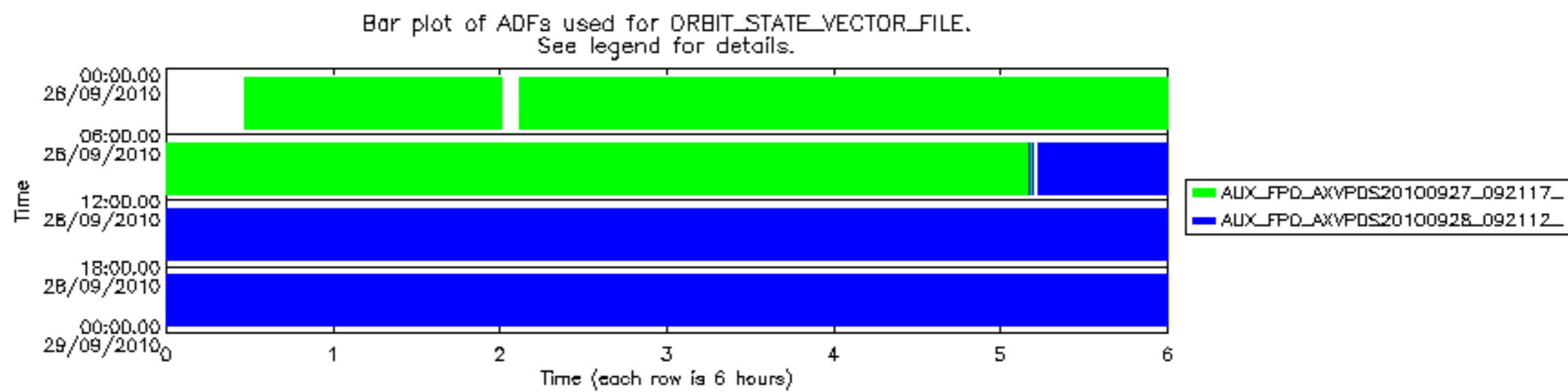


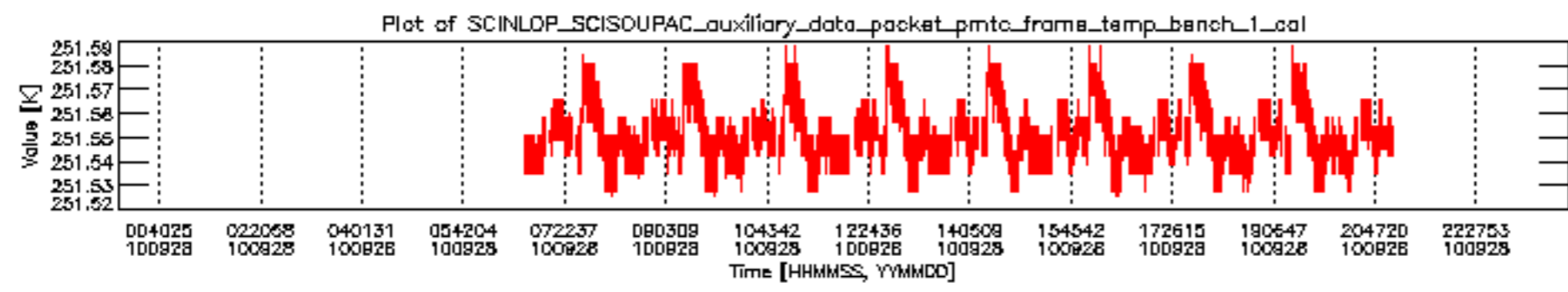


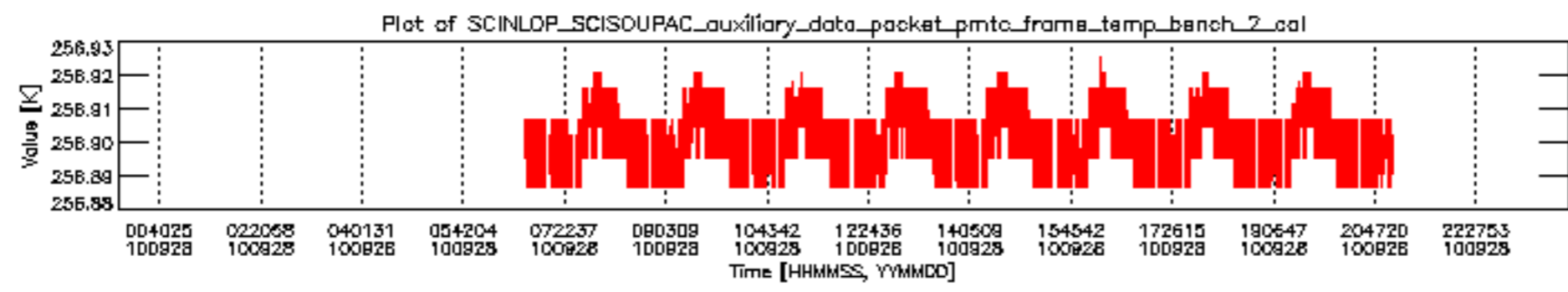
Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
 Each row indicates an orbit. A light gray colour indicates the time span of 28SEP2010.
 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
 The remaining colours indicate planned activities and/or special measurements.
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

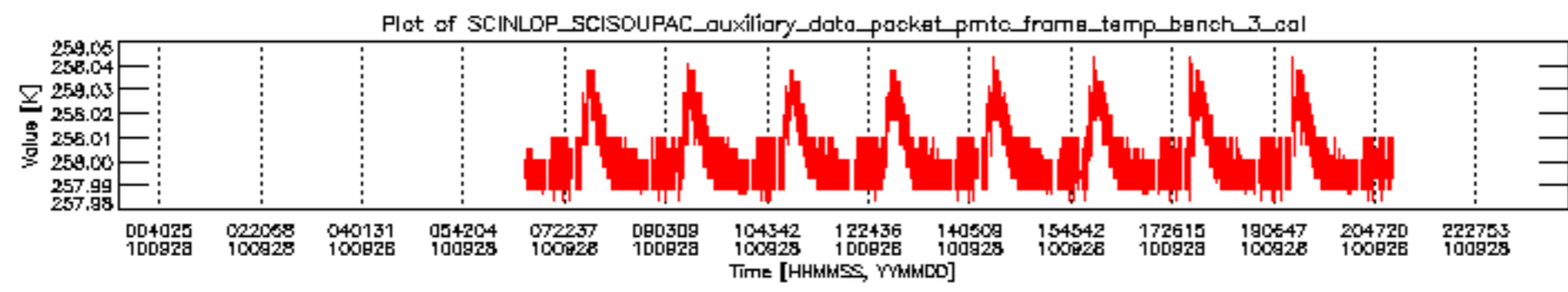


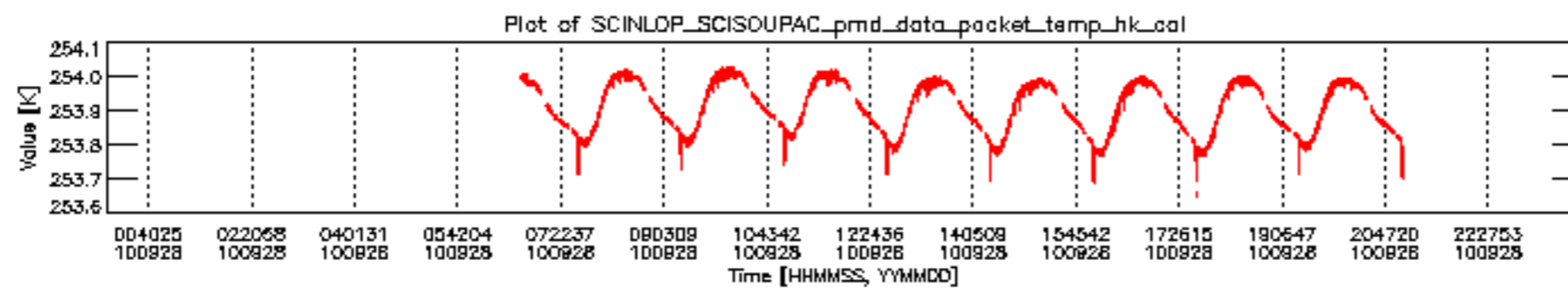


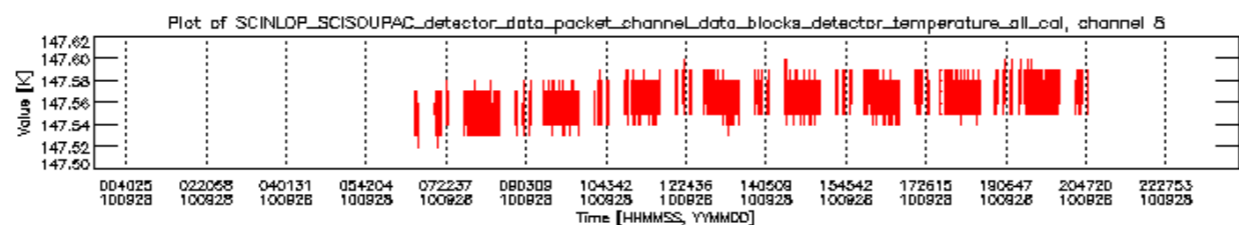
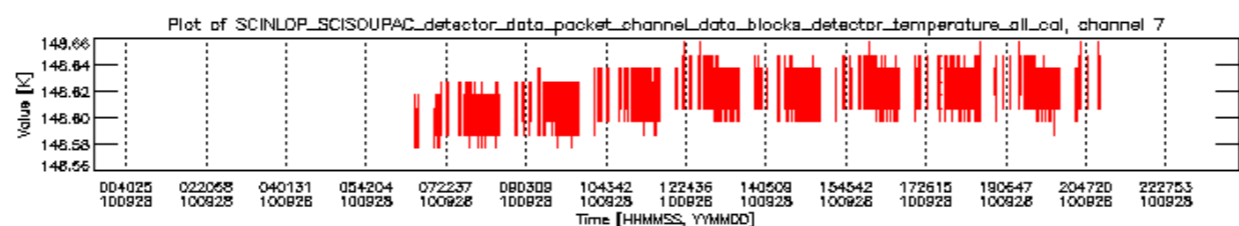
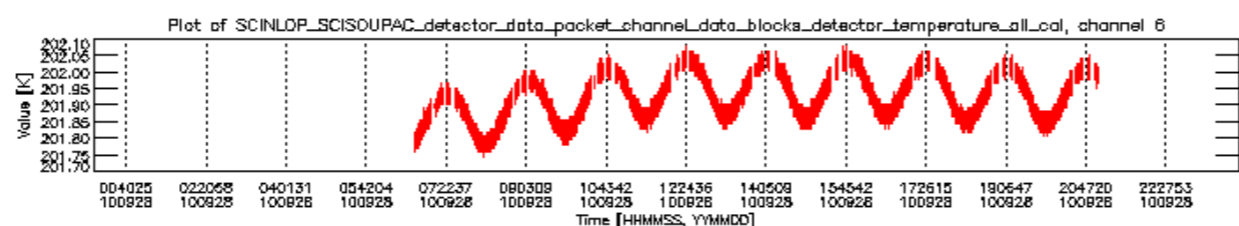
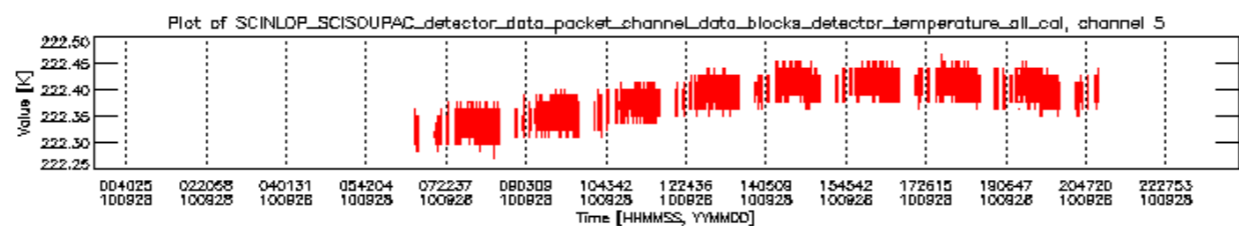
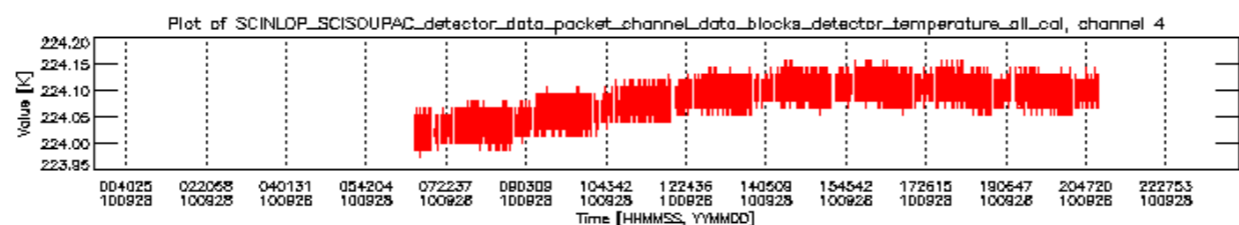
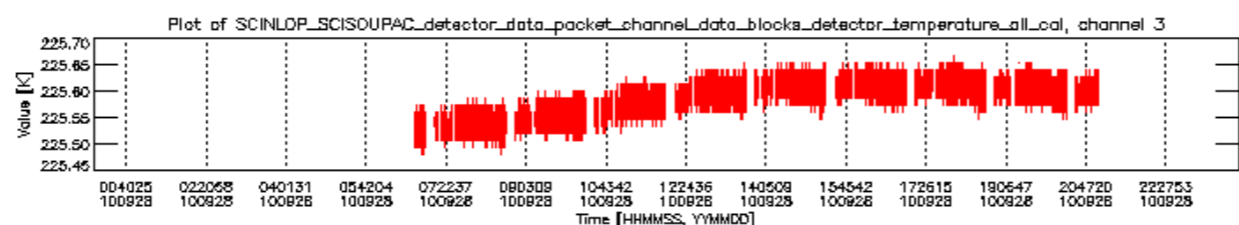
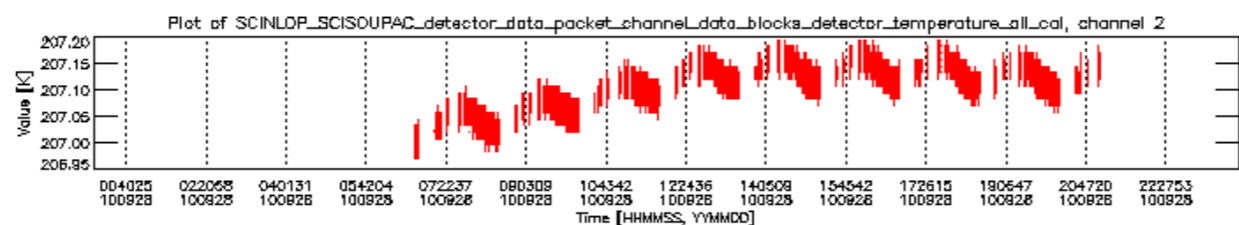
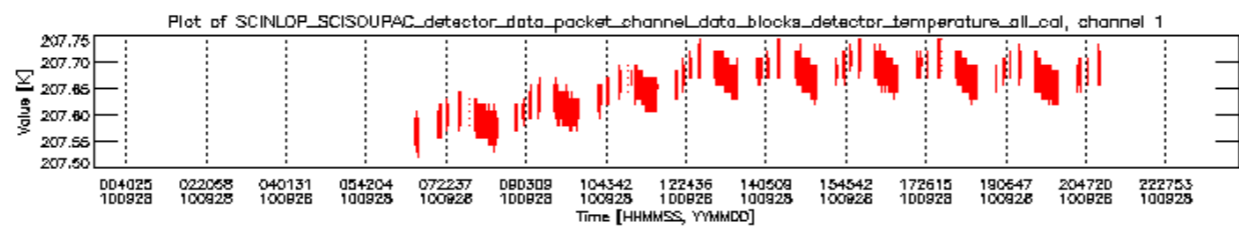


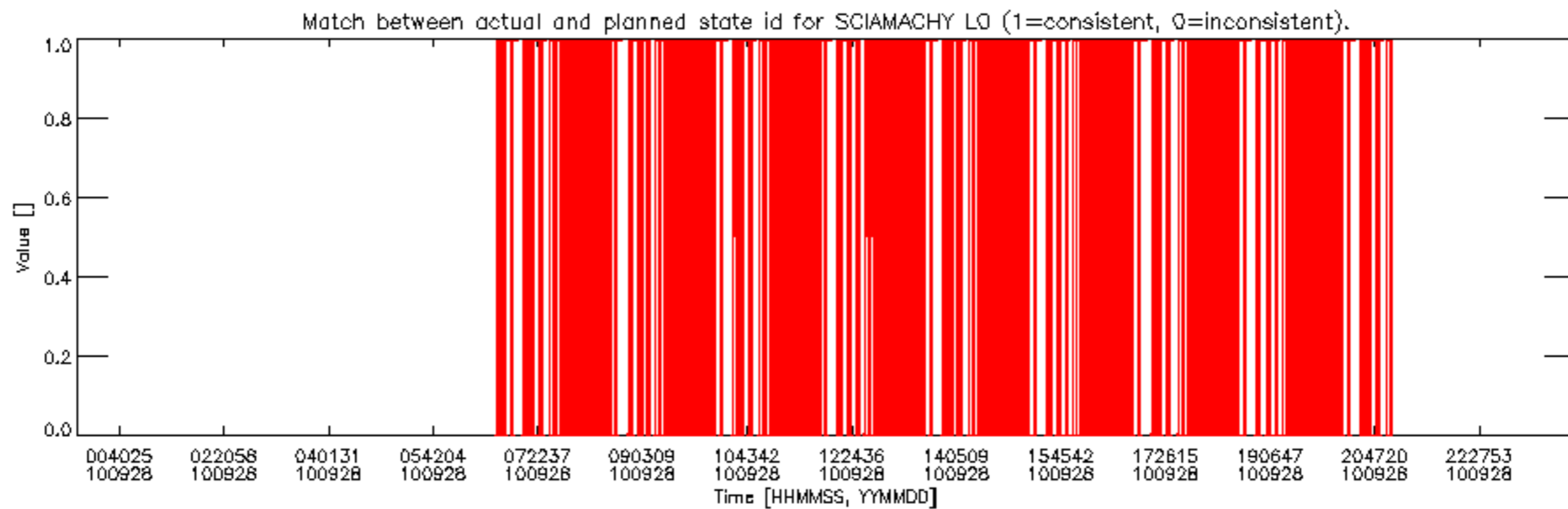
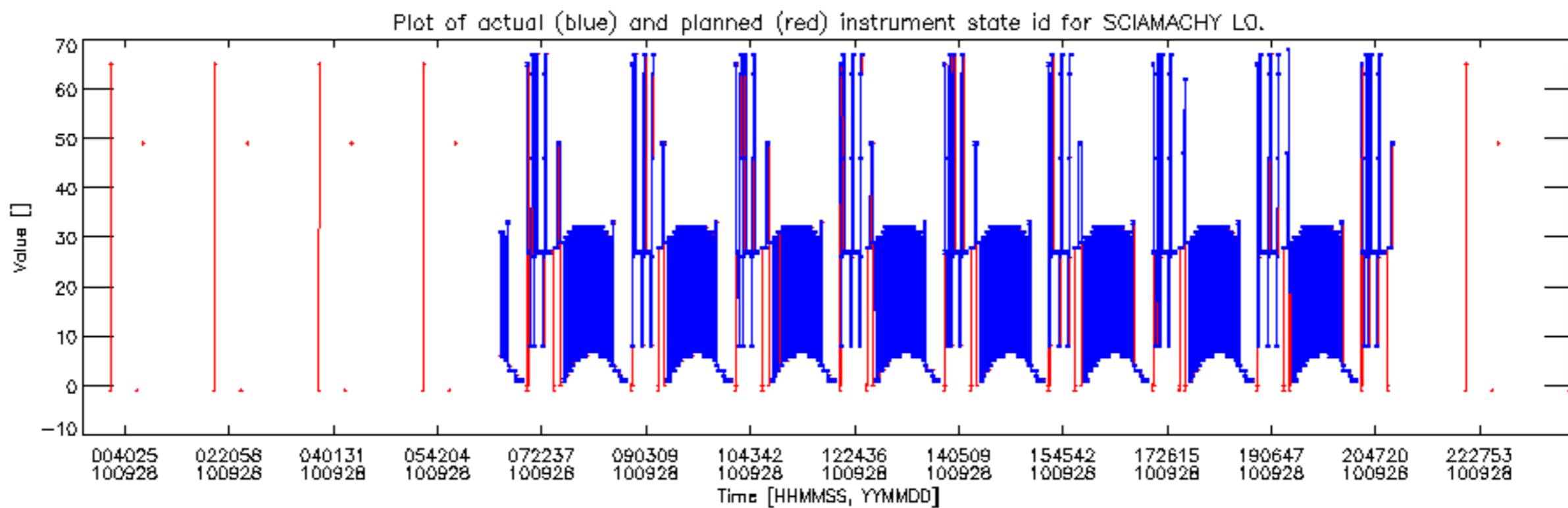












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
 Each row indicates an orbit. A light gray colour indicates the time span of 28SEP2010.
 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
 The remaining colours indicate planned activities and/or special measurements.
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

