

## 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	24OCT2010 03:00:25
Data source version	<Any version>
Processing scope for products	17OCT2010 00:00:00 to 18OCT2010 00:00:00
Start time of first product within scope	17OCT2010 00:31:18
Stop time of last product within scope	18OCT2010 01:34:23
Total number of Level 0 products	16
Number of Level 0 products with errors	3

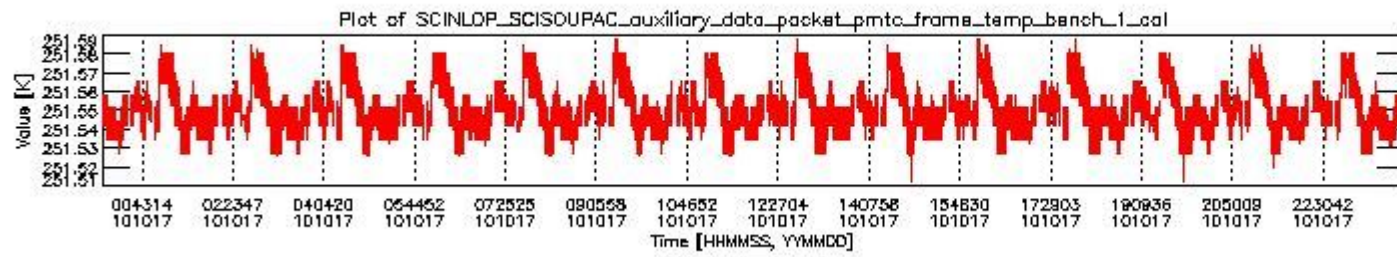
### 0.1.2 Summary per product

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

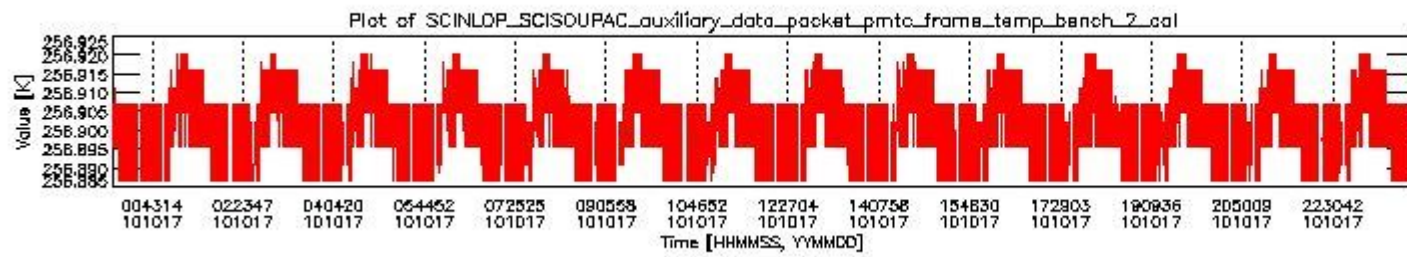
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20101017_003118_000056752093_00474_45117_1747.N1	17OCT2010 00:31:18	17OCT2010 02:05:53	0	0	0	0	0
1	SCI_NL__OPNPDE20101017_021154_000042552093_00475_45118_1748.N1	17OCT2010 02:11:54	17OCT2010 03:22:50	0	0	0	0	0
2	SCI_NL__OPNPDE20101017_032141_000061612093_00476_45119_1749.N1	17OCT2010 03:21:41	17OCT2010 05:04:22	0	0	0	0	0
3	SCI_NL__OPNPDE20101017_050422_000060362093_00477_45120_1750.N1	17OCT2010 05:04:22	17OCT2010 06:44:59	0	0	0	0	0
4	SCI_NL__OPNPDK20101017_064403_000040332093_00478_45121_2769.N1	17OCT2010 06:44:03	17OCT2010 07:51:16	0	0	0	0	0
5	SCI_NL__OPNPDK20101017_075020_000061052093_00479_45122_2770.N1	17OCT2010 07:50:20	17OCT2010 09:32:05	1	1	0	0	0
6	SCI_NL__OPNPDK20101017_093056_000060362093_00480_45123_2771.N1	17OCT2010 09:30:56	17OCT2010 11:11:33	0	0	0	0	0
7	SCI_NL__OPNPDK20101017_111024_000062292093_00481_45124_2772.N1	17OCT2010 11:10:24	17OCT2010 12:54:13	0	0	0	0	0
8	SCI_NL__OPNPDK20101017_125317_000058992093_00482_45125_2773.N1	17OCT2010 12:53:17	17OCT2010 14:31:37	0	0	0	0	0
9	SCI_NL__OPNPDK20101017_142945_000059252093_00483_45126_2774.N1	17OCT2010 14:29:45	17OCT2010 16:08:30	1	1	0	0	0
10	SCI_NL__OPNPDK20101017_160612_000060362093_00484_45127_2775.N1	17OCT2010 16:06:12	17OCT2010 17:46:48	0	0	0	0	0
11	SCI_NL__OPNPDK20101017_174551_000060932093_00485_45128_2776.N1	17OCT2010 17:45:51	17OCT2010 19:27:25	1	1	0	0	0
12	SCI_NL__OPNPDK20101017_192532_000059252093_00486_45129_2777.N1	17OCT2010 19:25:32	17OCT2010 21:04:17	0	0	0	0	0
13	SCI_NL__OPNPDE20101017_210417_000044952093_00487_45130_1751.N1	17OCT2010 21:04:17	17OCT2010 22:19:11	0	0	0	0	0
14	SCI_NL__OPNPDE20101017_221911_000060362093_00487_45130_1752.N1	17OCT2010 22:19:11	17OCT2010 23:59:48	0	0	0	0	0
15	SCI_NL__OPNPDE20101017_235948_000056752093_00488_45131_1753.N1	17OCT2010 23:59:48	18OCT2010 01:34:23	0	0	0	0	0

## 0.2 Product Quality Indicators

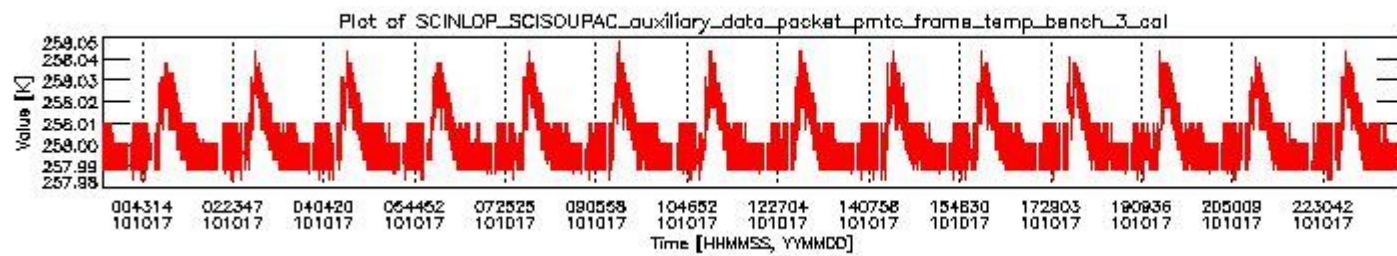
This section shows information about product quality, currently temperatures.



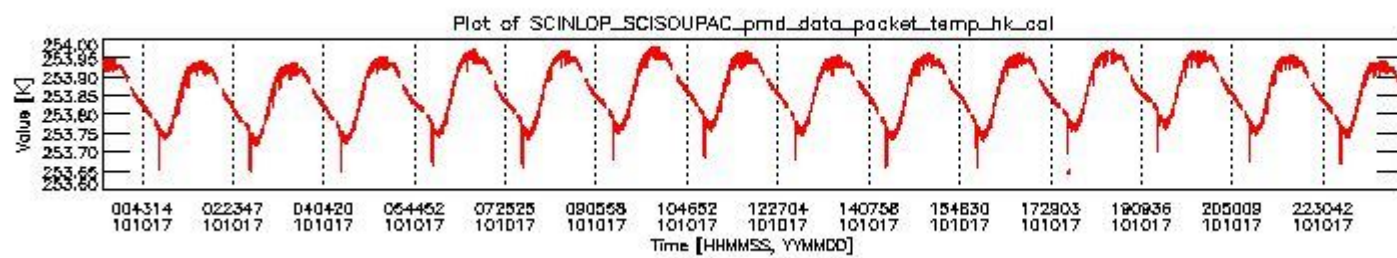
sciamachy\_daily\_report\_level0\_Any\_version\_20101017\_0.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20101017\_1.PNG

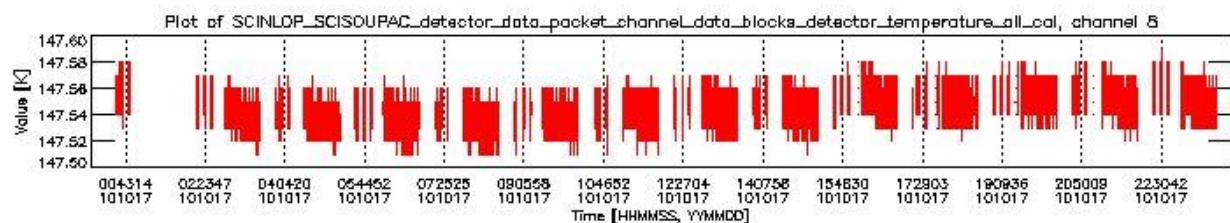
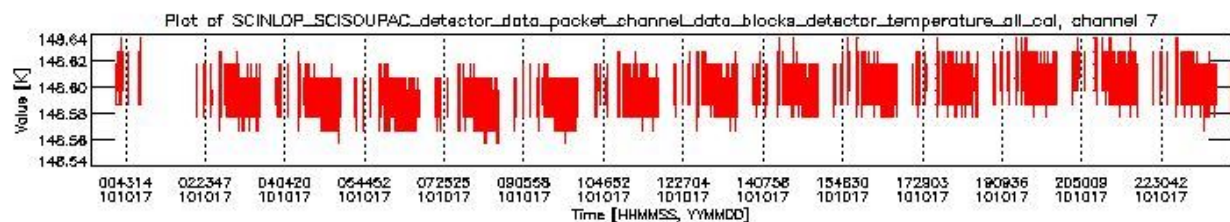
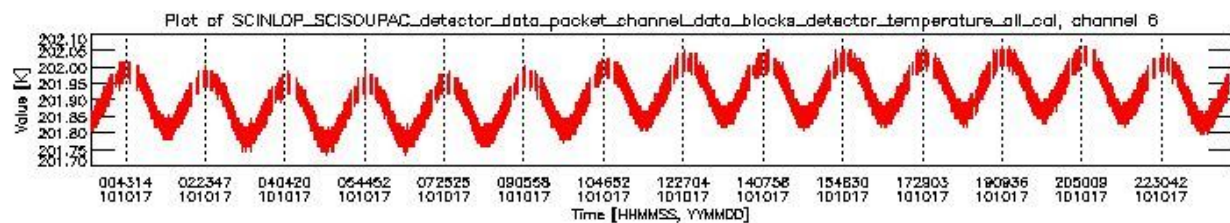
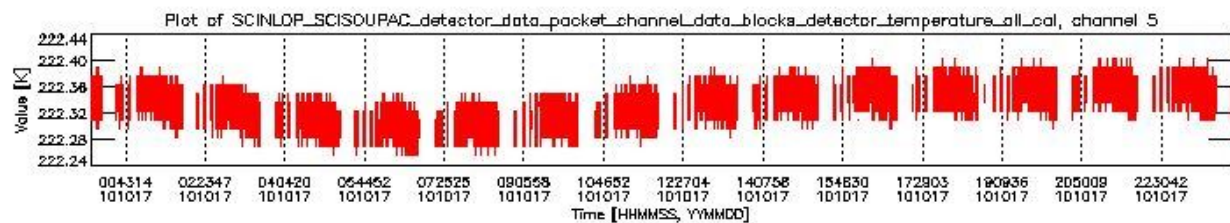
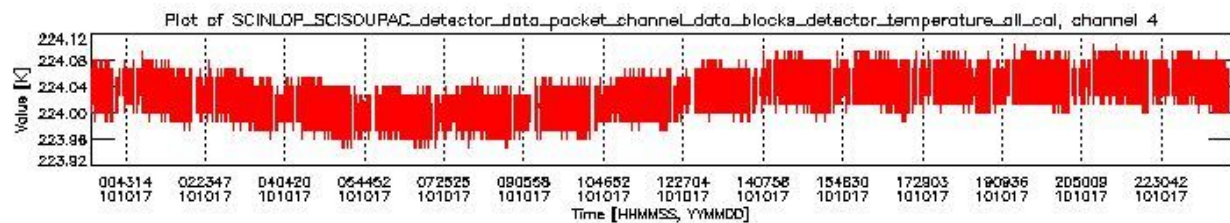
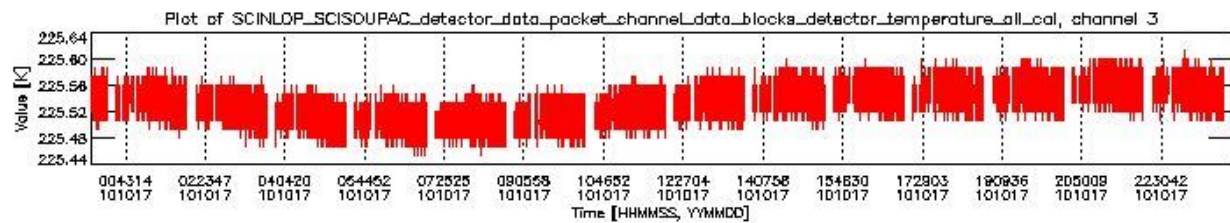
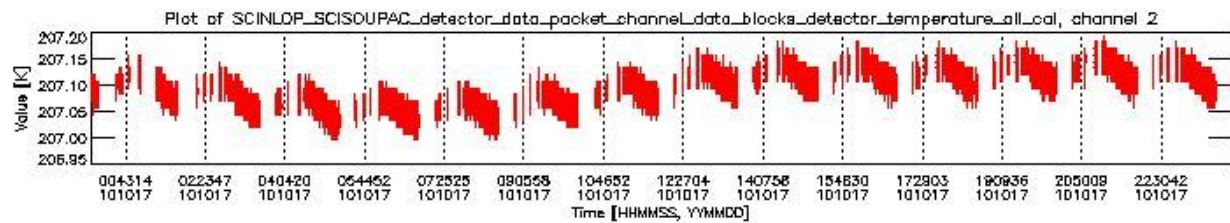
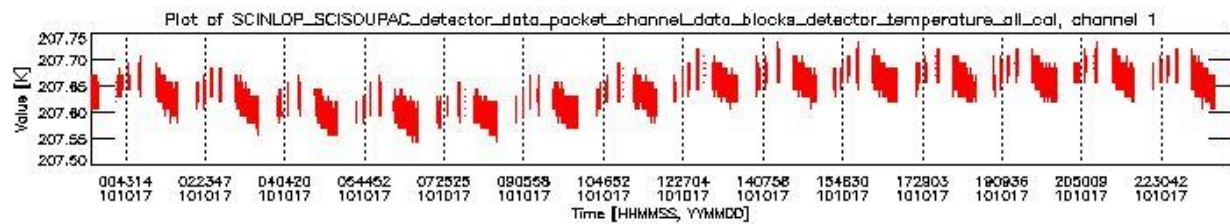


sciamachy\_daily\_report\_level0\_Any\_version\_20101017\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20101017\_3.PNG



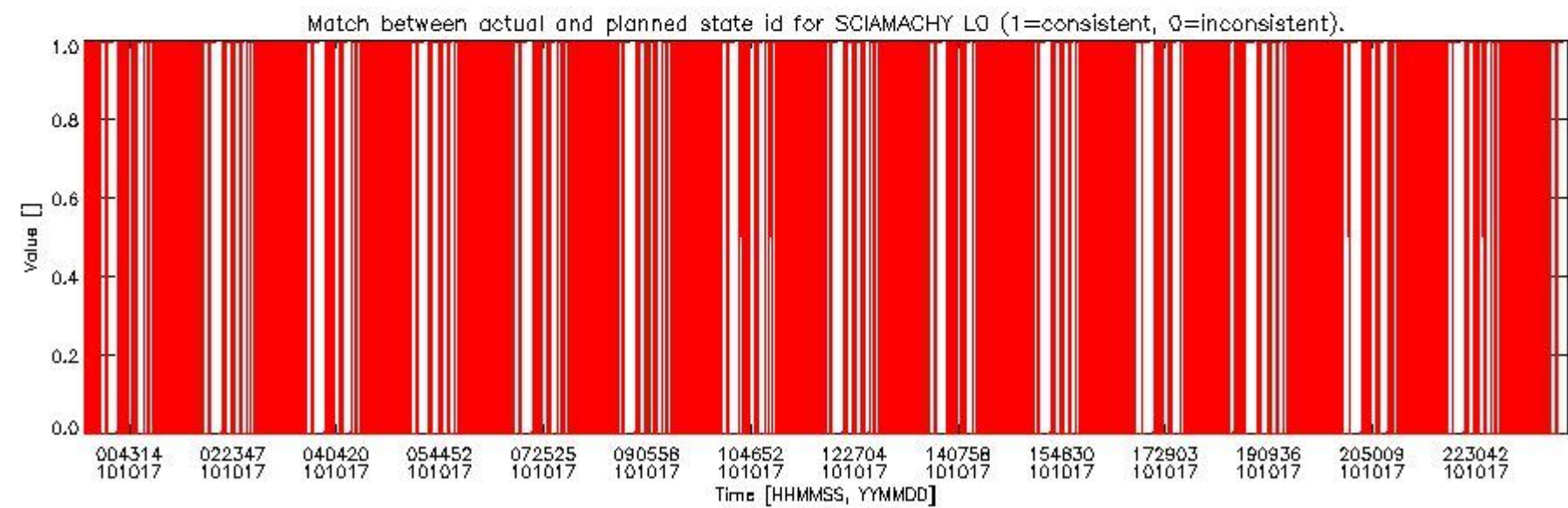
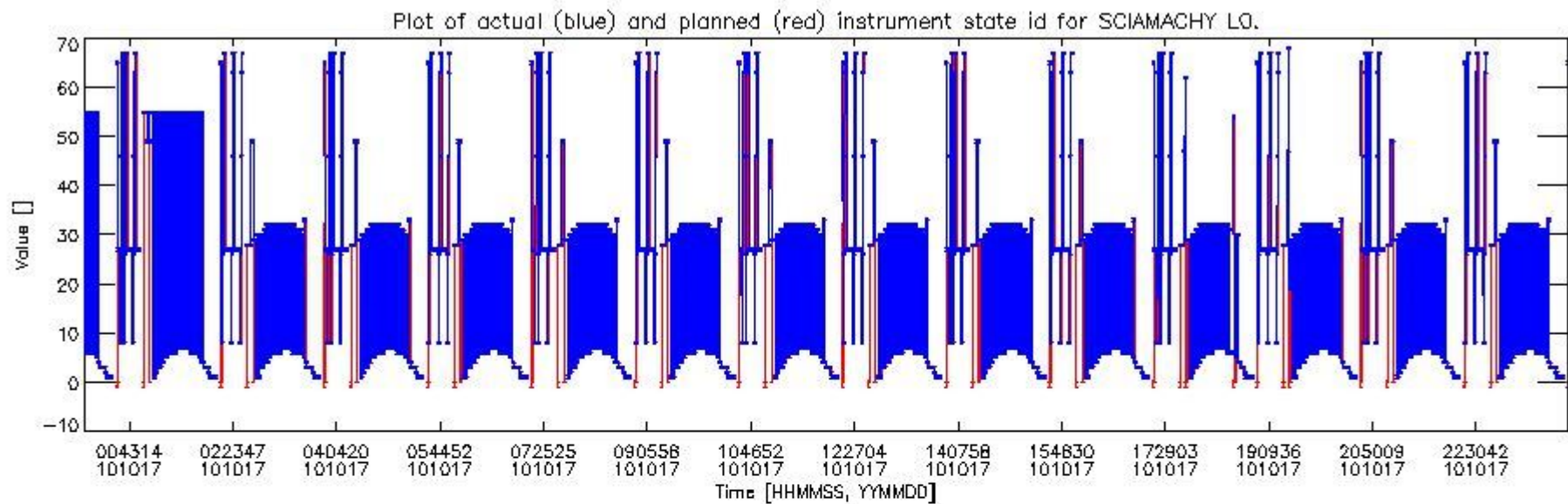


### 0.3 State monitoring

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: **110992**

#	Actual time	Actual value	Planned time	Planned value
0	17OCT2010 00:00:29.138721	6	17OCT2010 00:00:29.138721	55
1	17OCT2010 00:00:29.513721	6	17OCT2010 00:00:29.513721	55
2	17OCT2010 00:00:29.763721	6	17OCT2010 00:00:29.763721	55
3	17OCT2010 00:00:30.013721	6	17OCT2010 00:00:30.013721	55
4	17OCT2010 00:00:30.263721	6	17OCT2010 00:00:30.263721	55
5	17OCT2010 00:00:30.513721	6	17OCT2010 00:00:30.513721	55
6	17OCT2010 00:00:30.763721	6	17OCT2010 00:00:30.763721	55
7	17OCT2010 00:00:31.013721	6	17OCT2010 00:00:31.013721	55
8	17OCT2010 00:00:31.263721	6	17OCT2010 00:00:31.263721	55
9	17OCT2010 00:00:31.513721	6	17OCT2010 00:00:31.513721	55
10	17OCT2010 00:00:31.763721	6	17OCT2010 00:00:31.763721	55
11	17OCT2010 00:00:32.013721	6	17OCT2010 00:00:32.013721	55
12	17OCT2010 00:00:32.263721	6	17OCT2010 00:00:32.263721	55
13	17OCT2010 00:00:32.513721	6	17OCT2010 00:00:32.513721	55
14	17OCT2010 00:00:32.763721	6	17OCT2010 00:00:32.763721	55
15	17OCT2010 00:00:33.013721	6	17OCT2010 00:00:33.013721	55
16	17OCT2010 00:00:33.263721	6	17OCT2010 00:00:33.263721	55
17	17OCT2010 00:00:33.513721	6	17OCT2010 00:00:33.513721	55
18	17OCT2010 00:00:33.763721	6	17OCT2010 00:00:33.763721	55
19	17OCT2010 00:00:34.013721	6	17OCT2010 00:00:34.013721	55
...	...	...	...	...



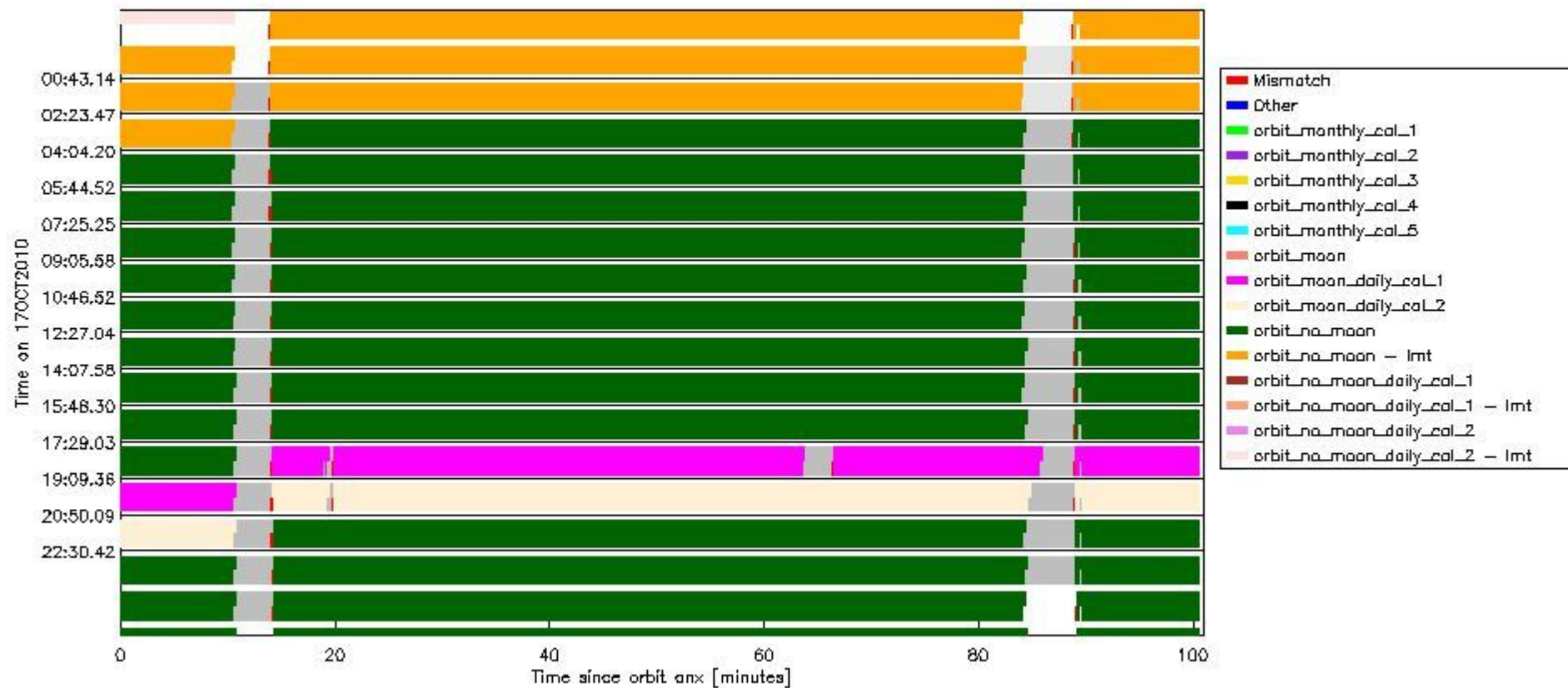
sciamachy\_daily\_report\_level0\_Any\_version\_20101017\_5.PNG

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 17OCT2010.  
 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\_20101017\_6.PNG

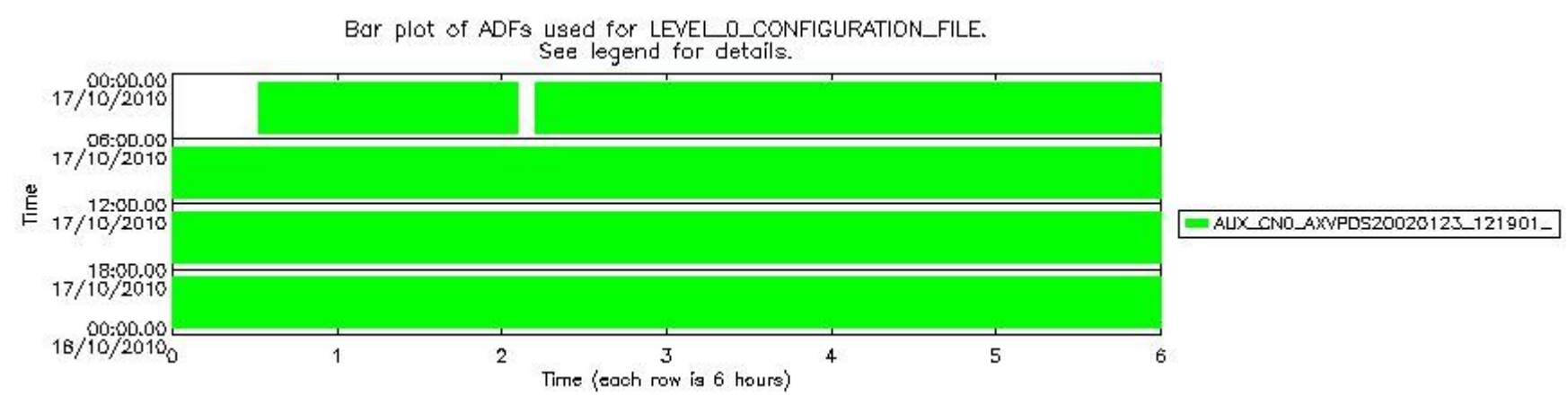
## 0.4 ADF monitoring

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

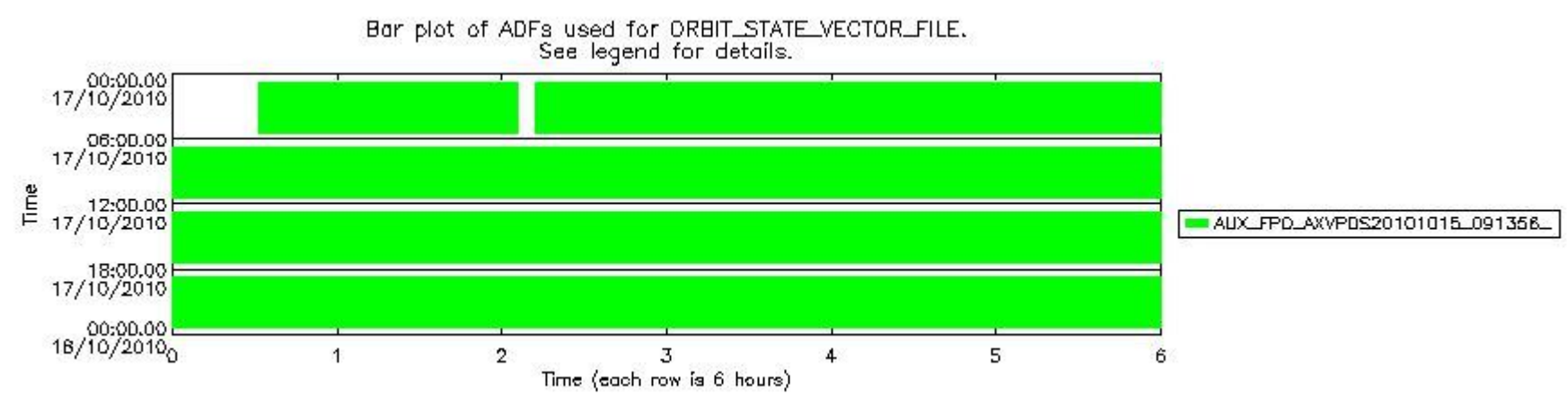
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

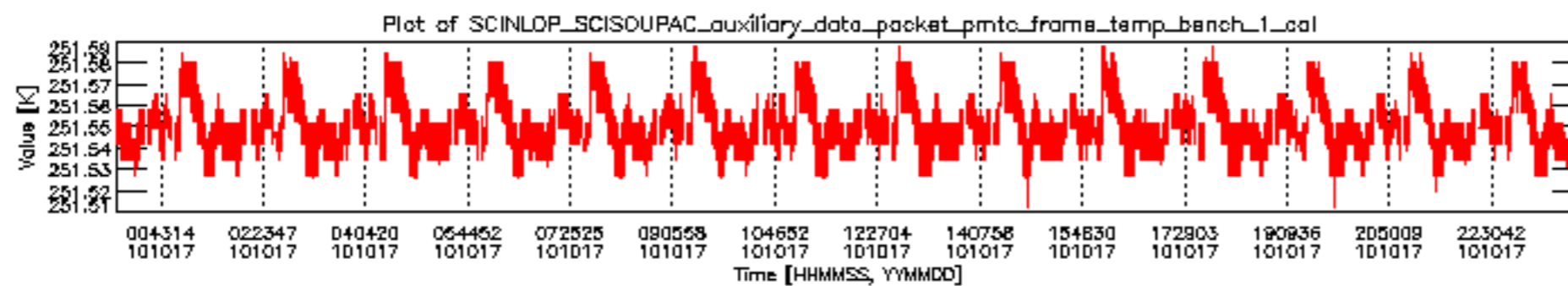
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20101015_091356_20101014_190356_20101024_203007



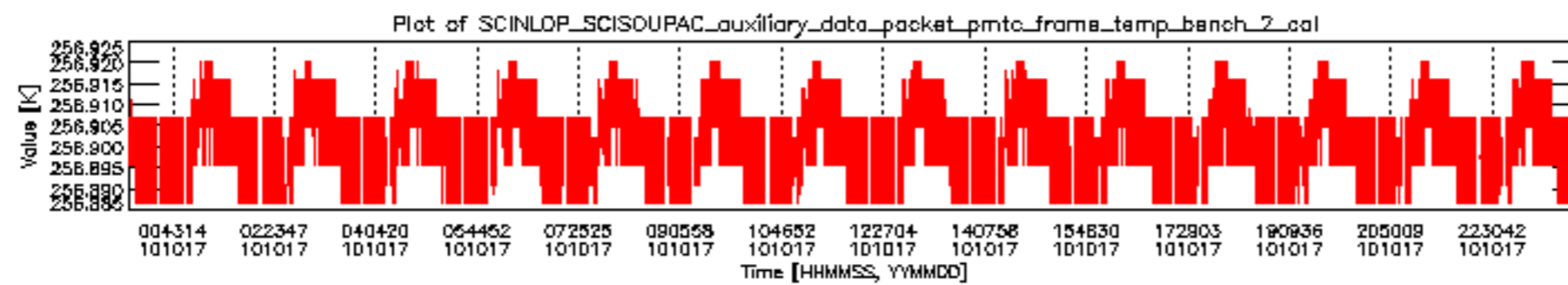
sciamachy\_daily\_report\_level0\_Any\_version\_20101017\_7.PNG

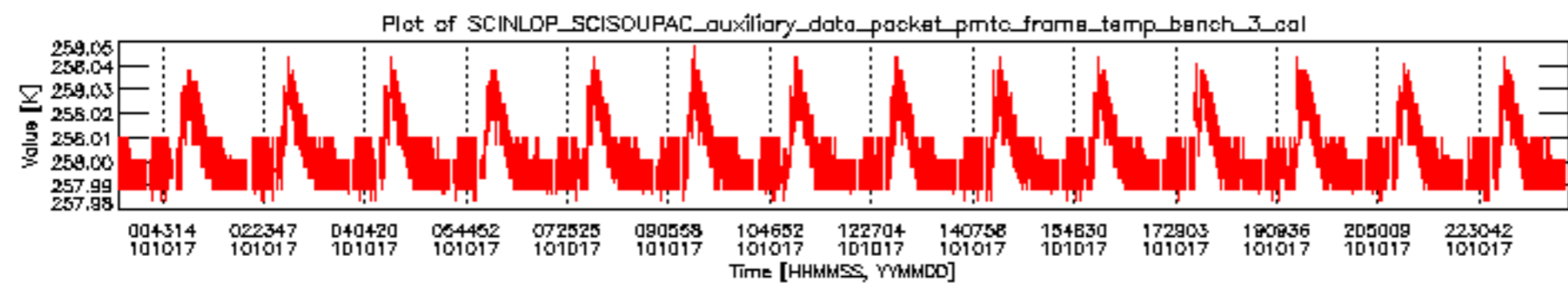


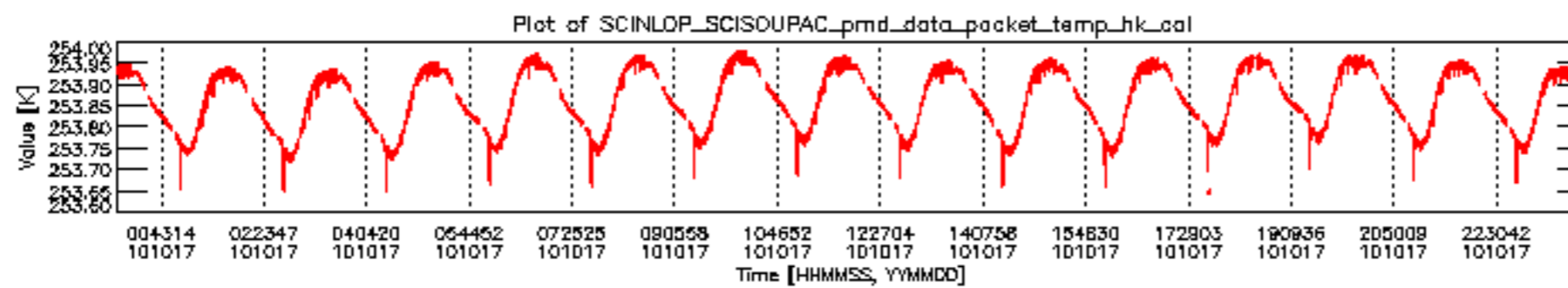
sciamachy\_daily\_report\_level0\_Any\_version\_20101017\_8.PNG

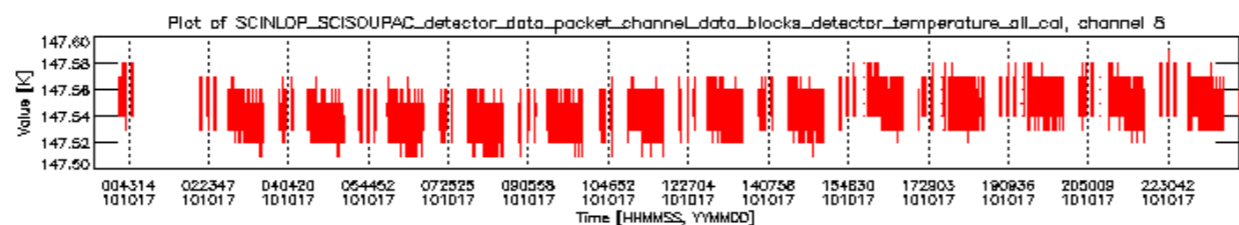
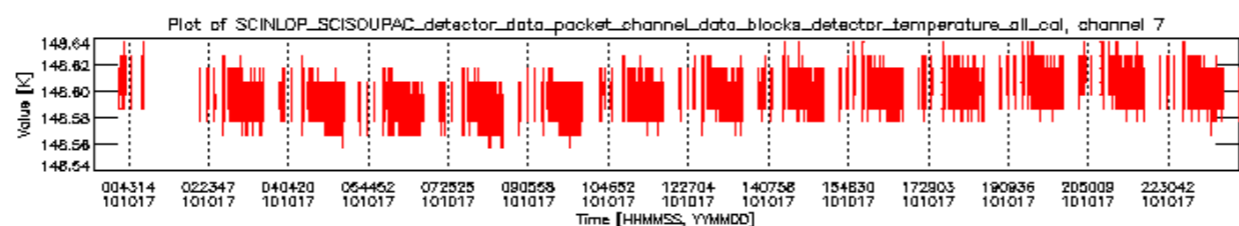
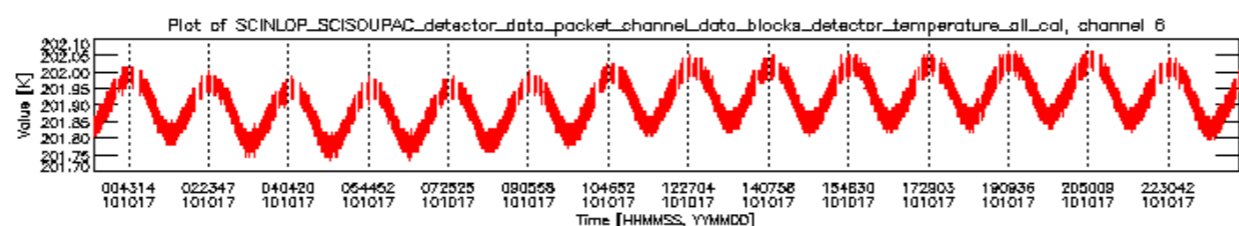
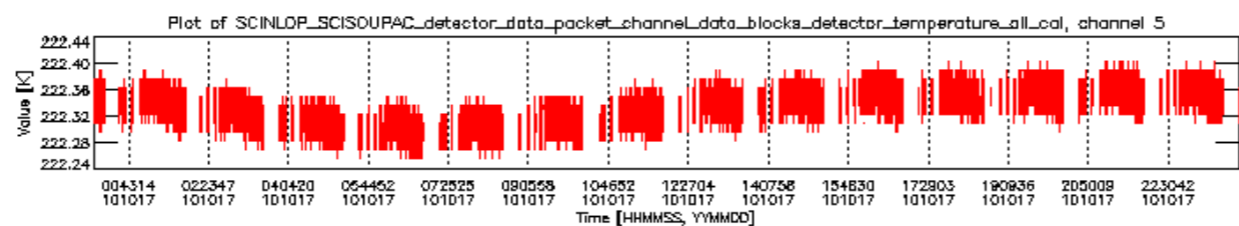
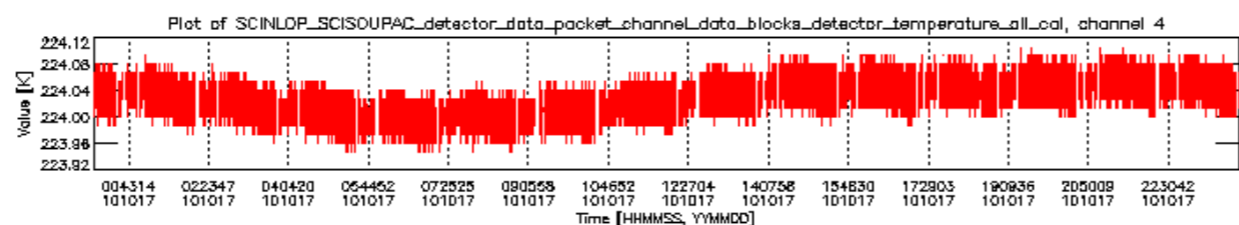
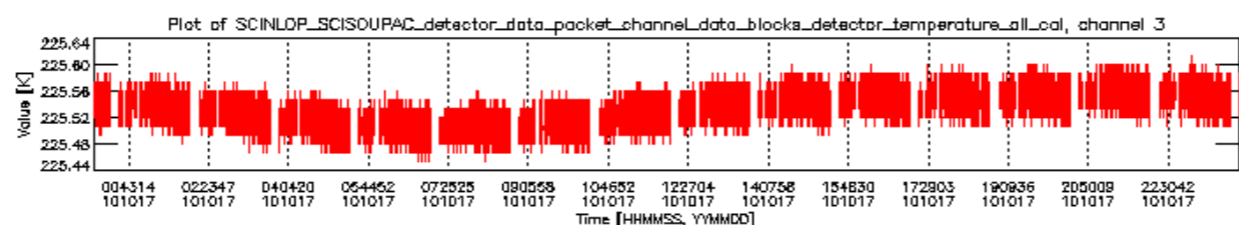
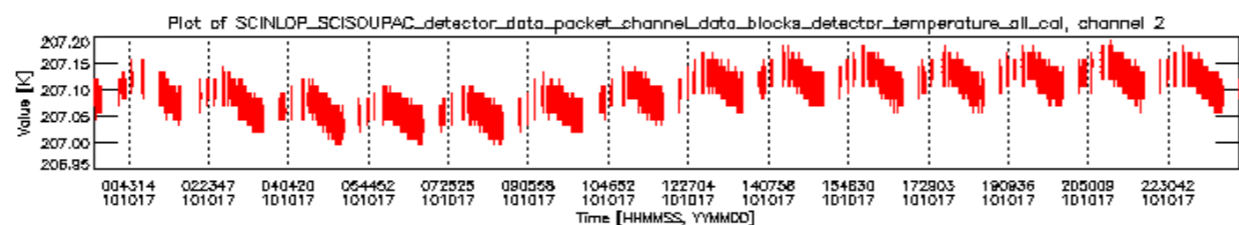
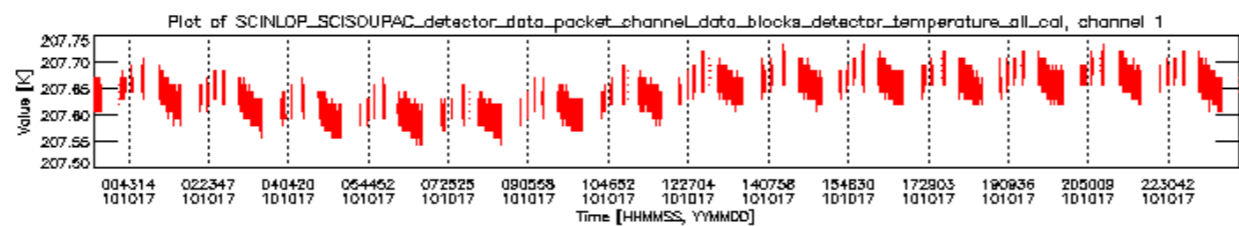




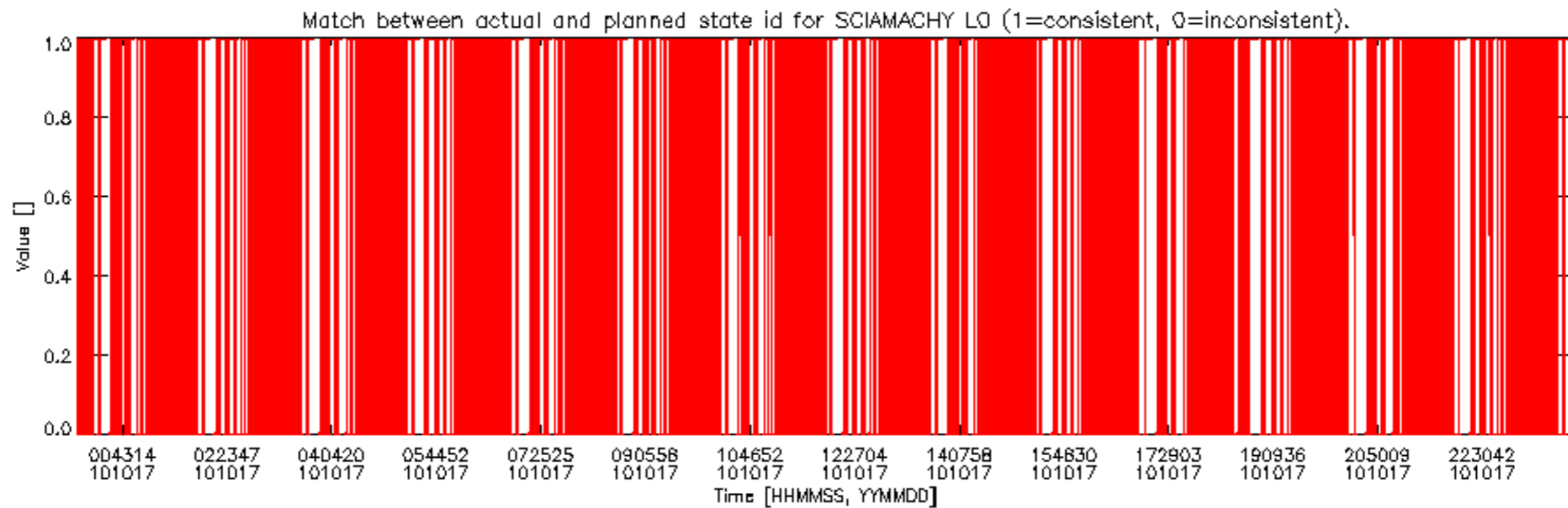
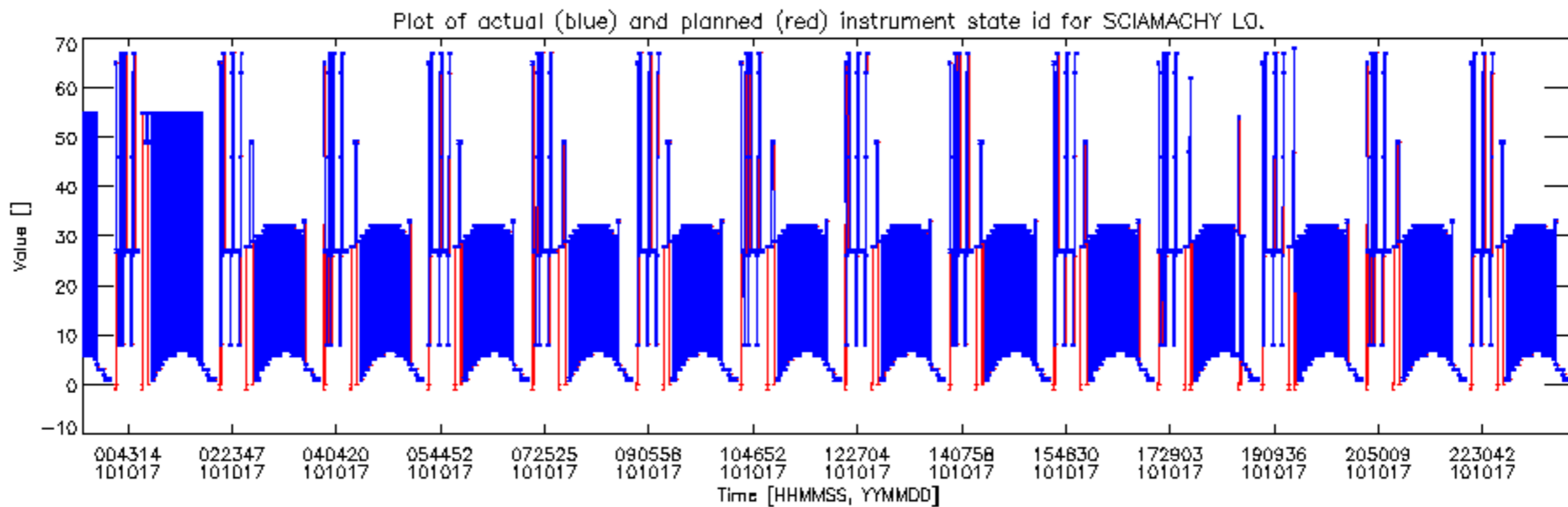




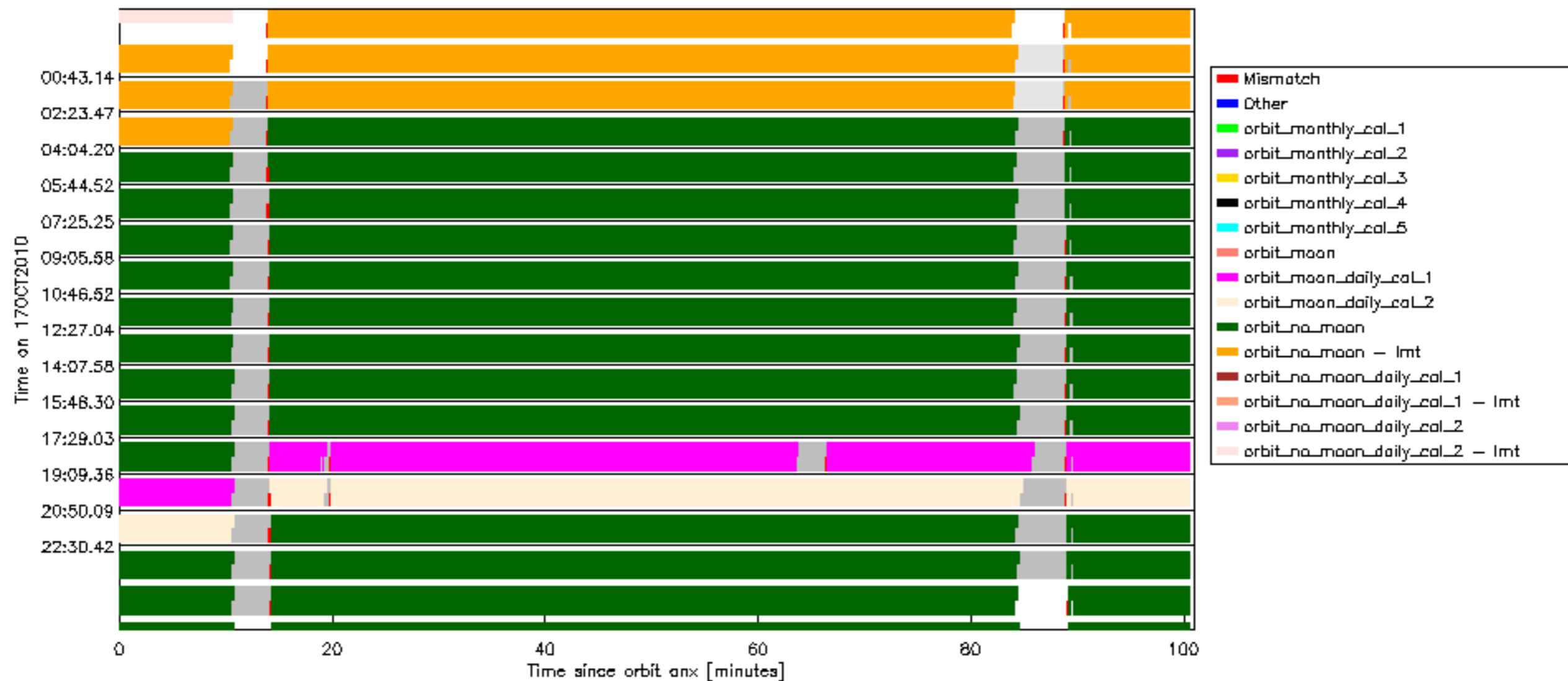


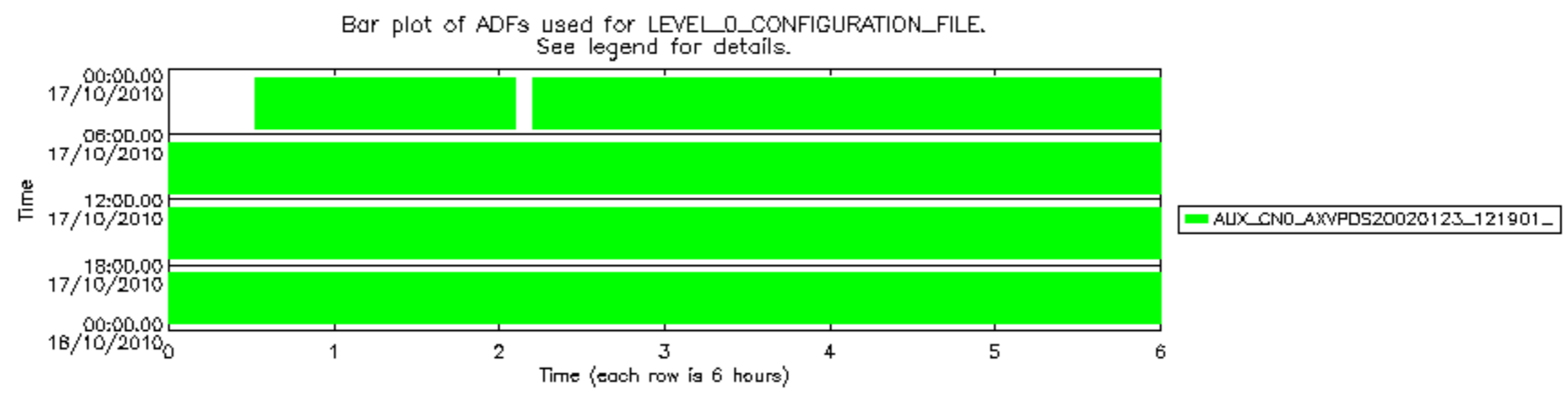


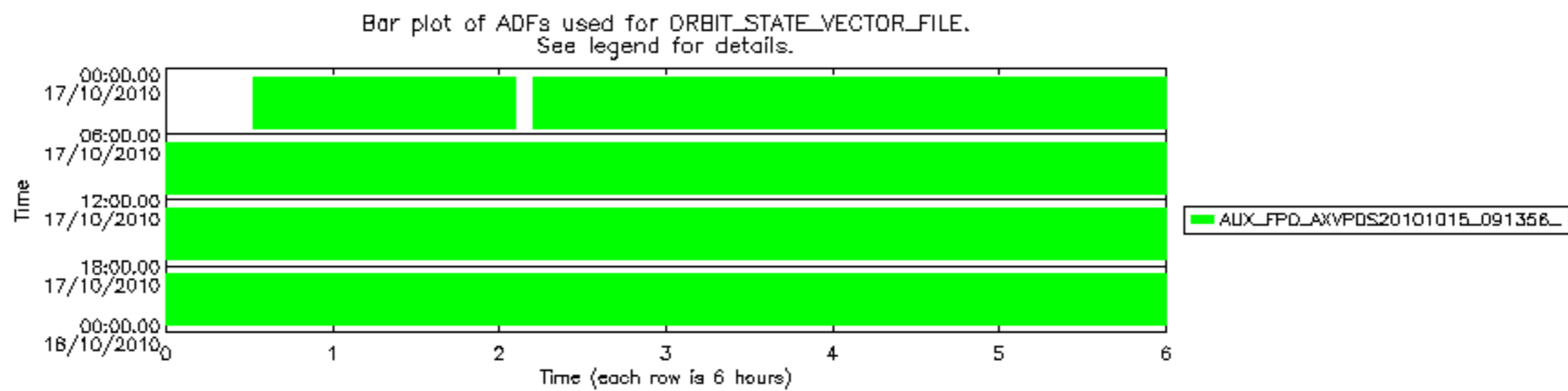




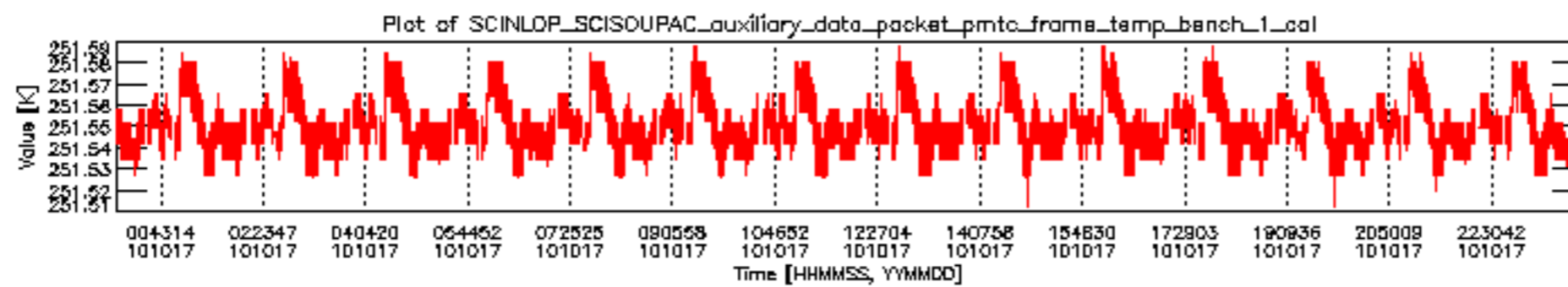
Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 17OCT2010.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
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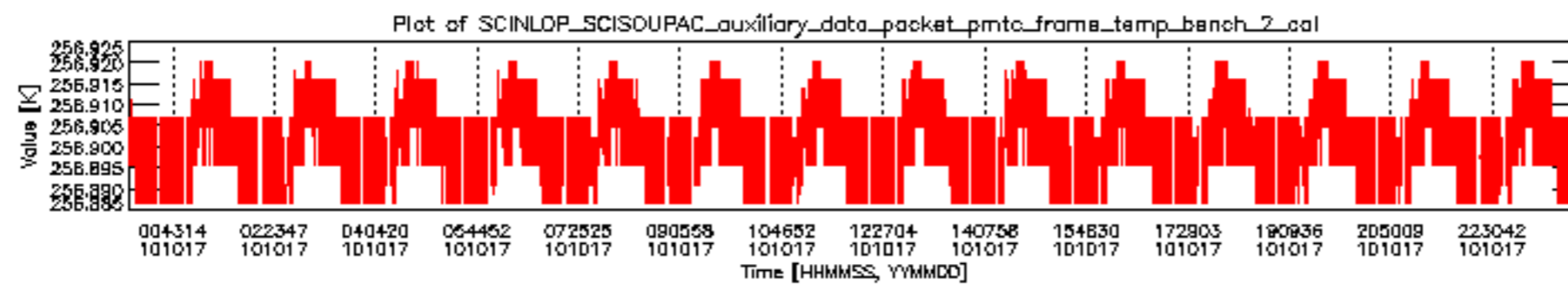


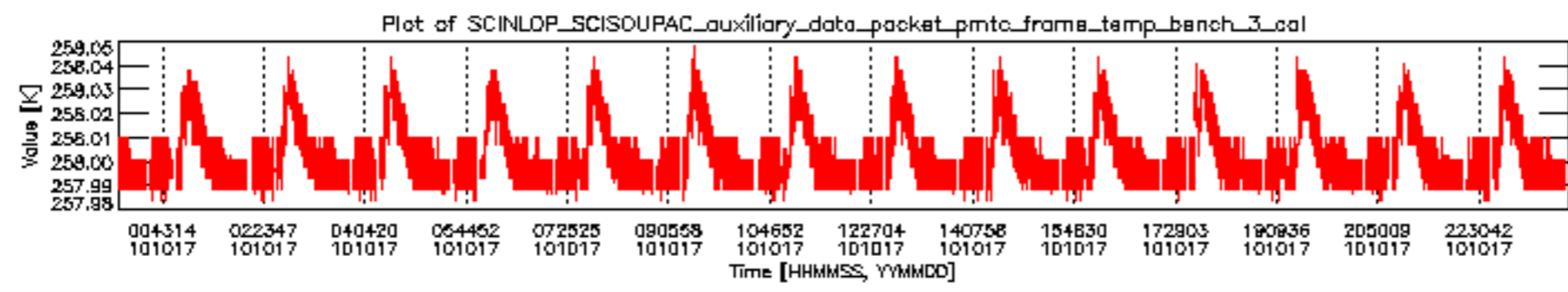


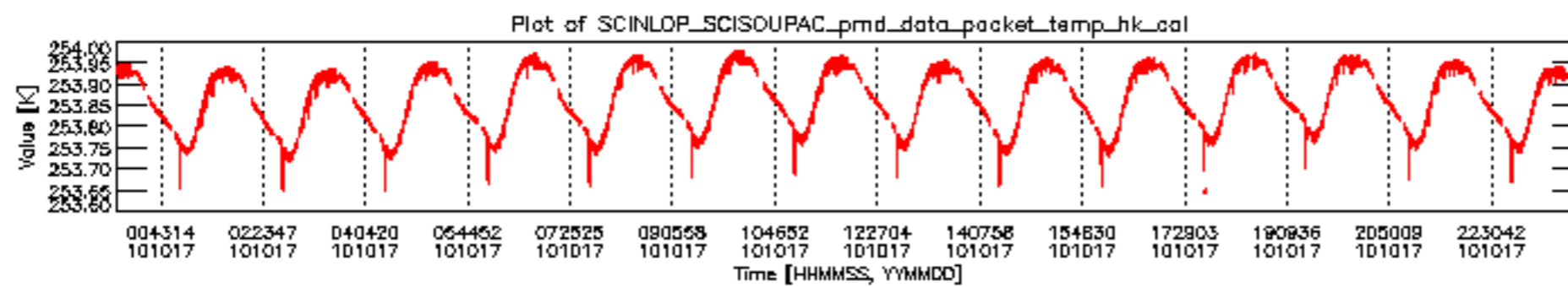




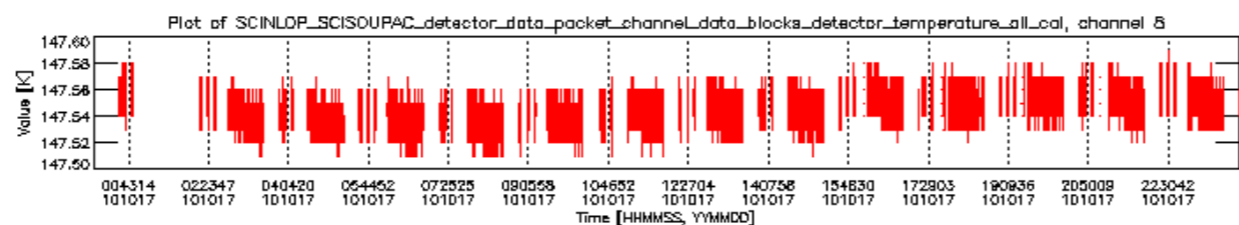
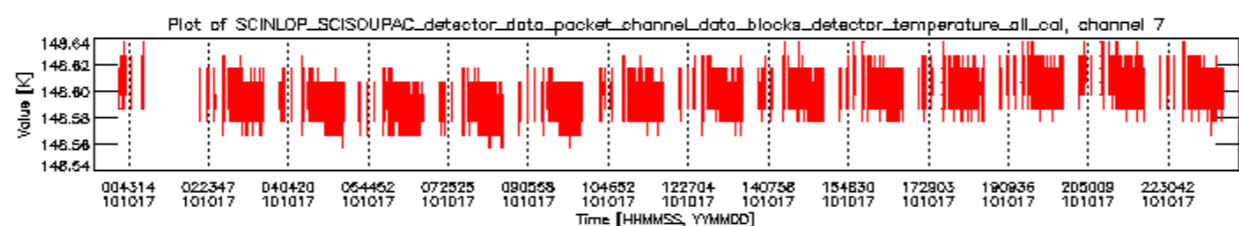
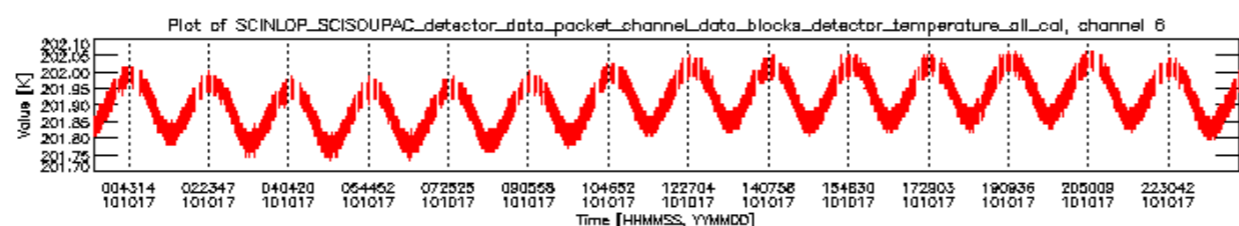
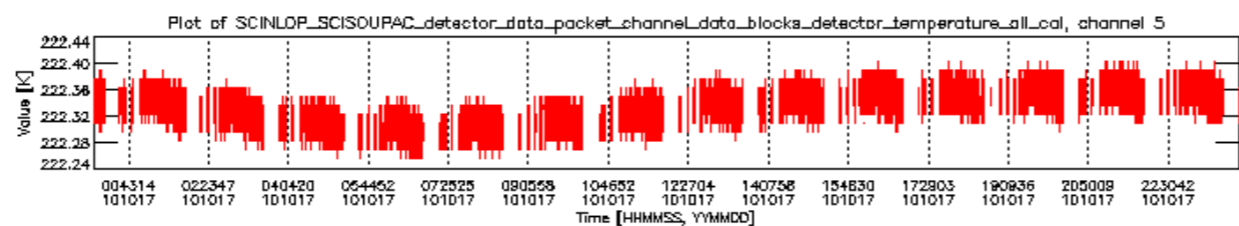
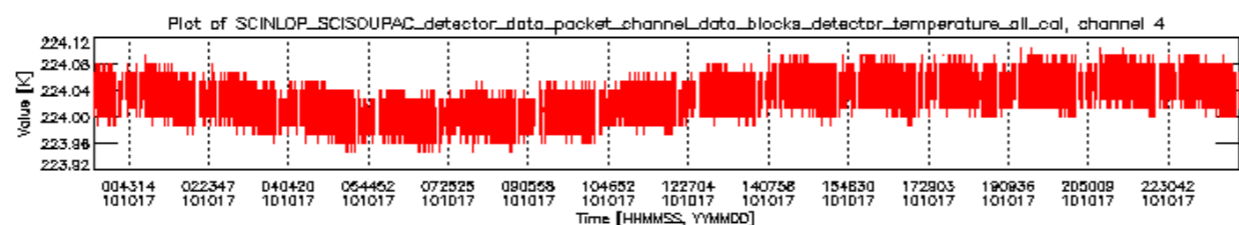
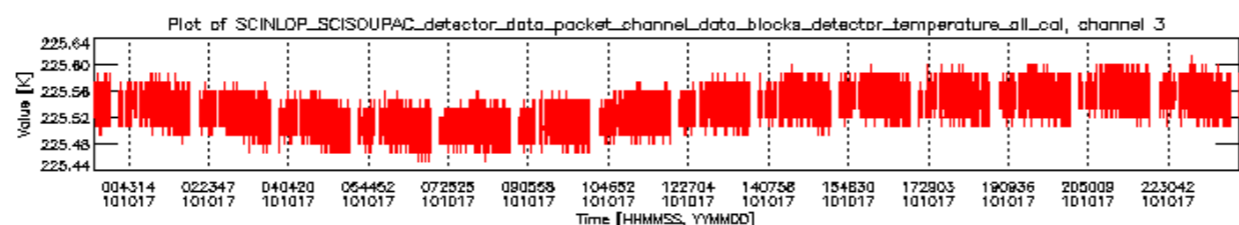
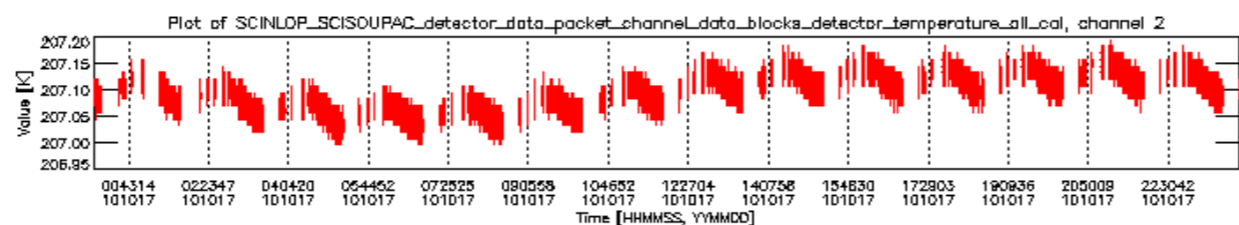
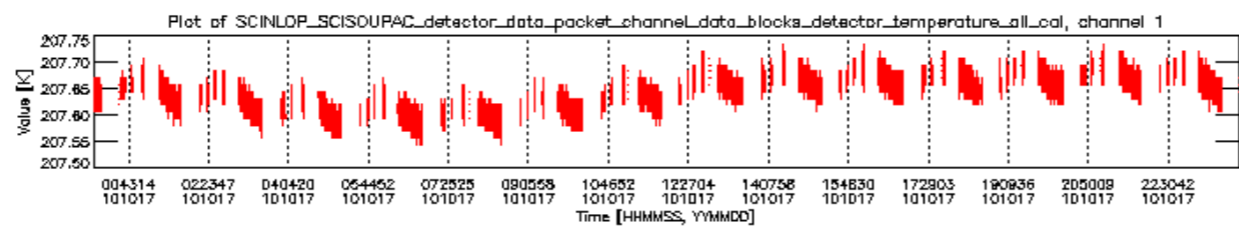


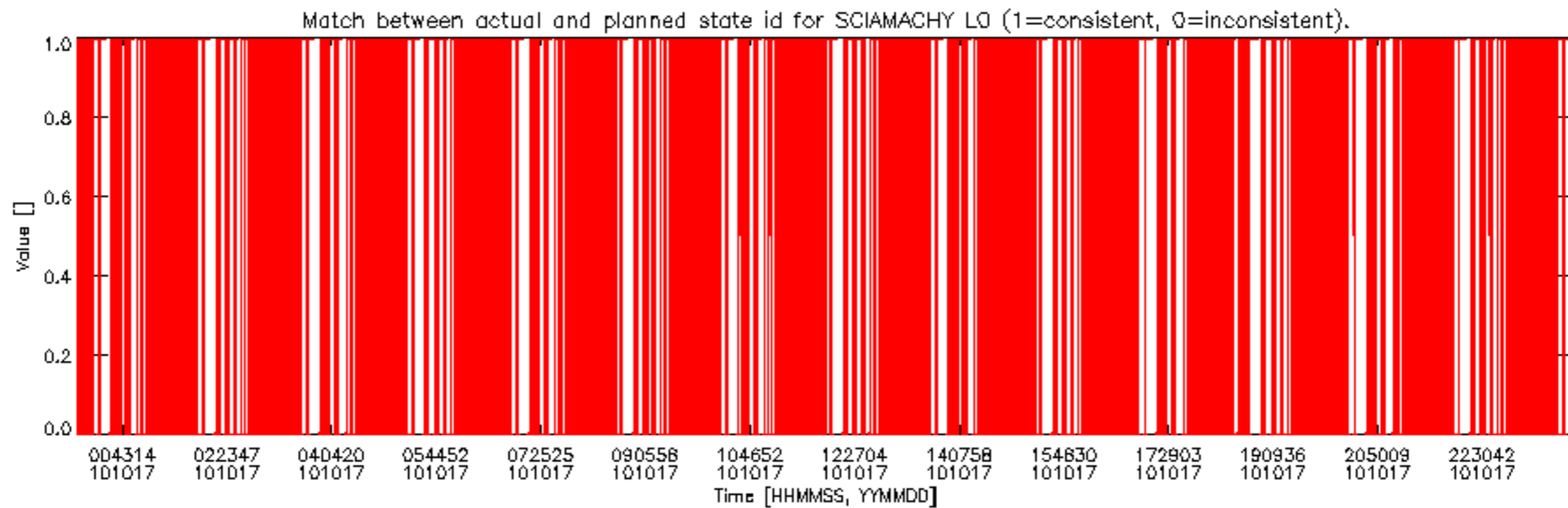
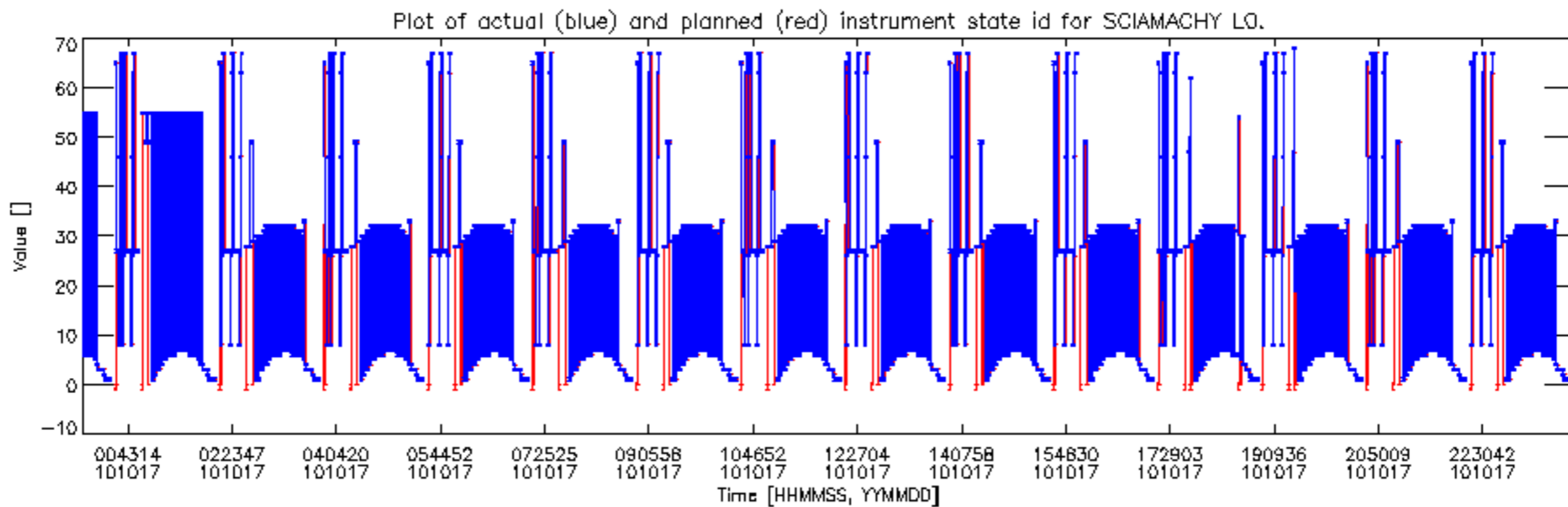












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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