

## 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	08OCT2010 02:12:39
Data source version	<Any version>
Processing scope for products	01OCT2010 00:00:00 to 02OCT2010 00:00:00
Start time of first product within scope	01OCT2010 00:33:47
Stop time of last product within scope	02OCT2010 00:03:38
Total number of Level 0 products	15
Number of Level 0 products with errors	0

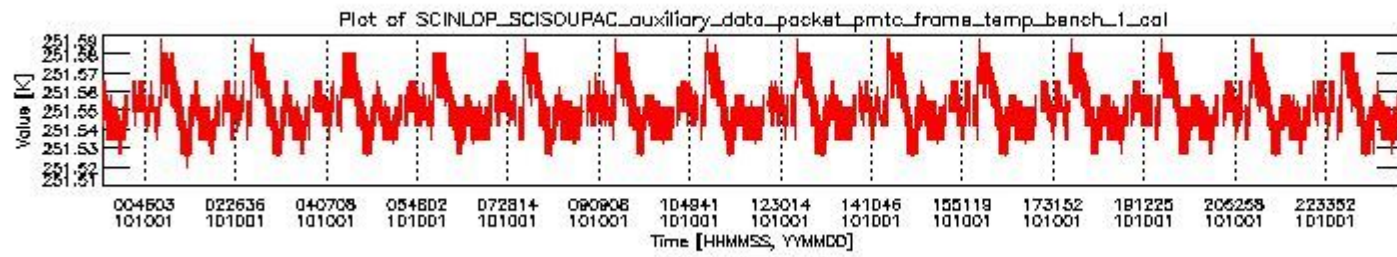
### 0.1.2 Summary per product

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

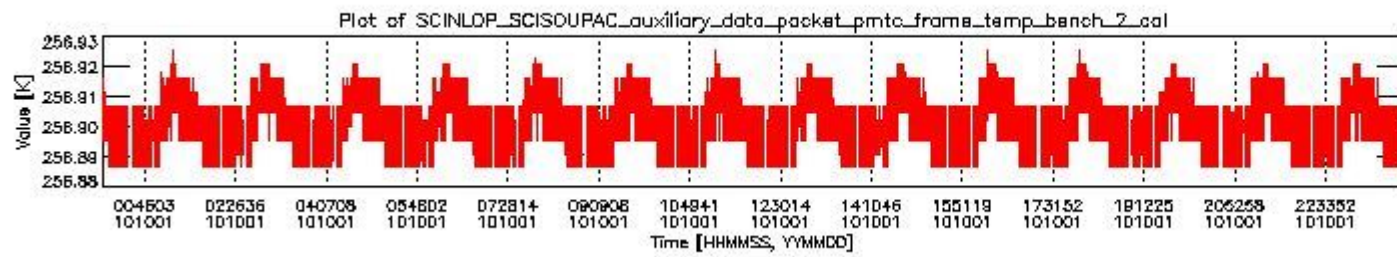
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20101001_003347_000055972093_00245_44888_2445.N1	01OCT2010 00:33:47	01OCT2010 02:07:04	0	0	0	0	0
1	SCI_NL__OPNPDE20101001_021256_000043642093_00246_44889_2446.N1	01OCT2010 02:12:56	01OCT2010 03:25:40	0	0	0	0	0
2	SCI_NL__OPNPDE20101001_032444_000062292093_00247_44890_2447.N1	01OCT2010 03:24:44	01OCT2010 05:08:33	0	0	0	0	0
3	SCI_NL__OPNPDE20101001_050833_000059682093_00248_44891_2448.N1	01OCT2010 05:08:33	01OCT2010 06:48:01	0	0	0	0	0
4	SCI_NL__OPNPDK20101001_064801_000041142093_00249_44892_2638.N1	01OCT2010 06:48:01	01OCT2010 07:56:35	0	0	0	0	0
5	SCI_NL__OPNPDK20101001_075527_000060922093_00250_44893_2639.N1	01OCT2010 07:55:27	01OCT2010 09:36:59	0	0	0	0	0
6	SCI_NL__OPNPDK20101001_093659_000060492093_00251_44894_2640.N1	01OCT2010 09:36:59	01OCT2010 11:17:48	0	0	0	0	0
7	SCI_NL__OPNPDK20101001_111748_000058432093_00252_44895_2641.N1	01OCT2010 11:17:48	01OCT2010 12:55:12	0	0	0	0	0
8	SCI_NL__OPNPDK20101001_125403_000061052093_00253_44896_2642.N1	01OCT2010 12:54:03	01OCT2010 14:35:48	0	0	0	0	0
9	SCI_NL__OPNPDK20101001_143344_000057442093_00254_44897_2643.N1	01OCT2010 14:33:44	01OCT2010 16:09:28	0	0	0	0	0
10	SCI_NL__OPNPDK20101001_160710_000061542093_00255_44898_2644.N1	01OCT2010 16:07:10	01OCT2010 17:49:44	0	0	0	0	0
11	SCI_NL__OPNPDK20101001_174906_000059572093_00256_44899_2645.N1	01OCT2010 17:49:06	01OCT2010 19:28:23	0	0	0	0	0
12	SCI_NL__OPNPDK20101001_192823_000060362093_00257_44900_2646.N1	01OCT2010 19:28:23	01OCT2010 21:09:00	0	0	0	0	0
13	SCI_NL__OPNPDE20101001_210900_000043172093_00258_44901_2449.N1	01OCT2010 21:09:00	01OCT2010 22:20:57	0	0	0	0	0
14	SCI_NL__OPNPDE20101001_222013_000062042093_00258_44901_2450.N1	01OCT2010 22:20:13	02OCT2010 00:03:38	0	0	0	0	0

## 0.2 Product Quality Indicators

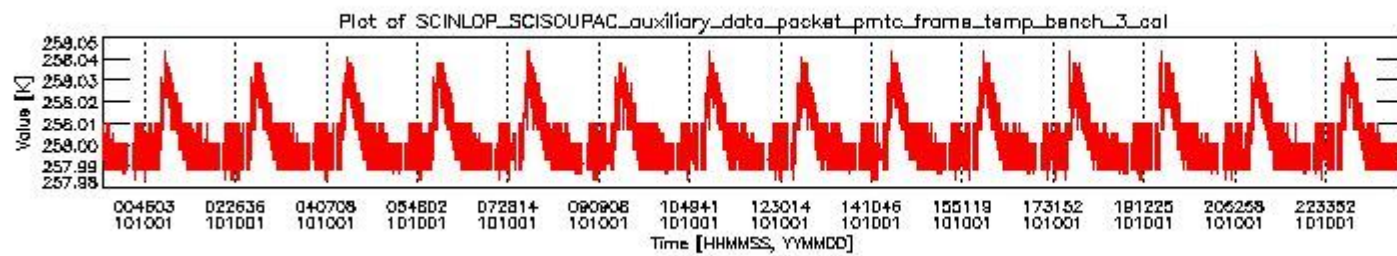
This section shows information about product quality, currently temperatures.



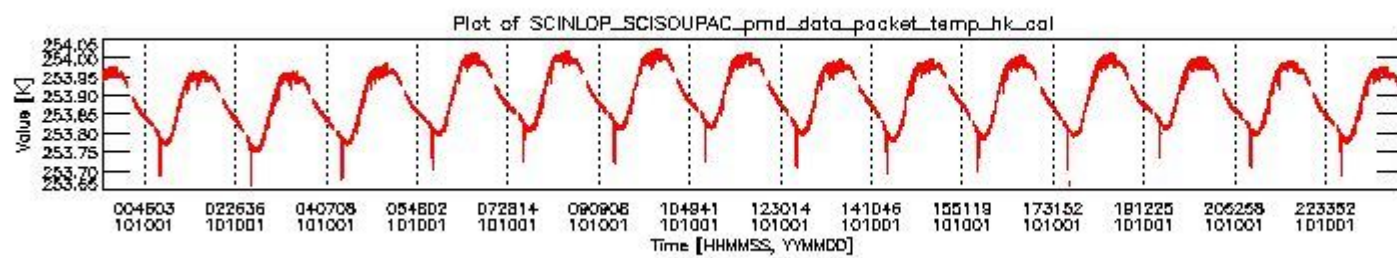
sciamachy\_daily\_report\_level0\_Any\_version\_20101001\_0.PNG



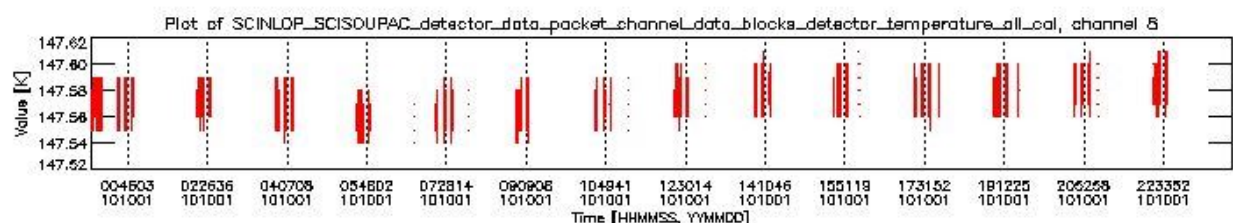
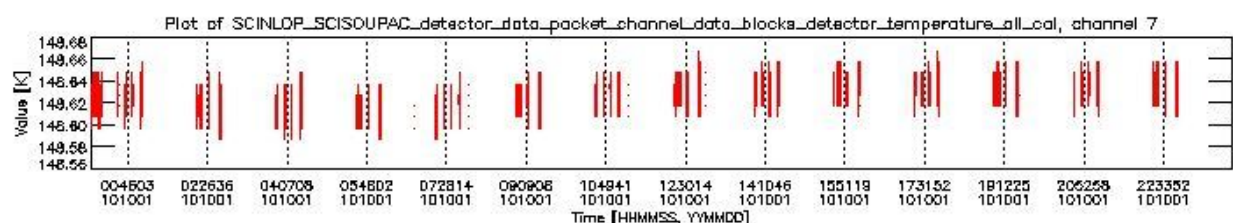
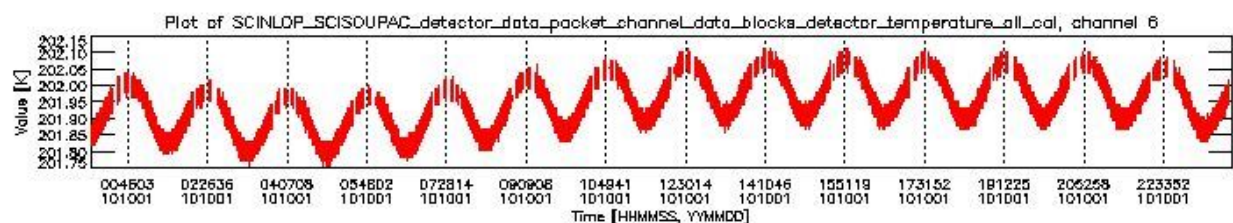
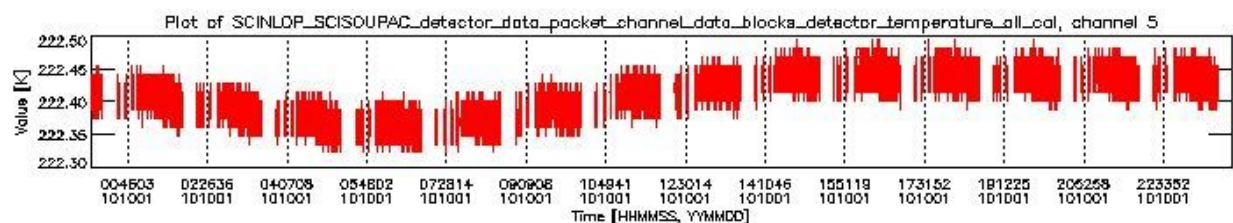
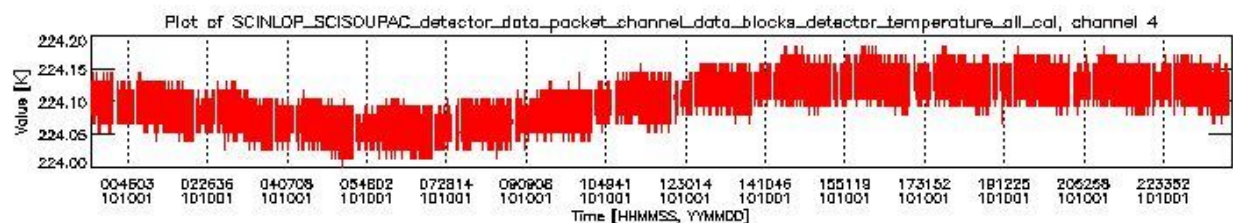
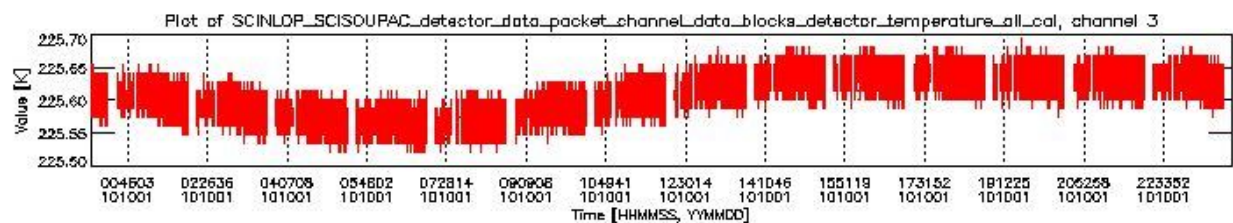
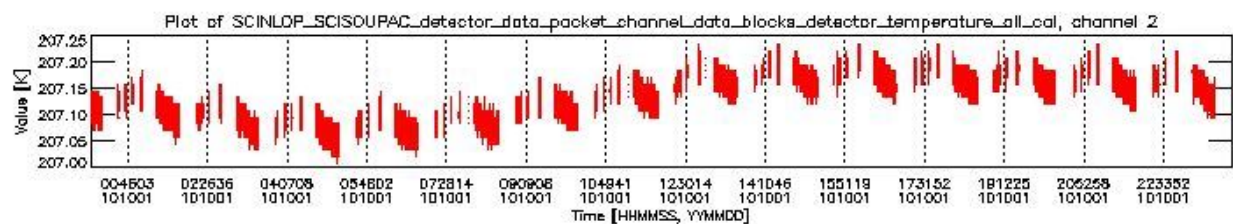
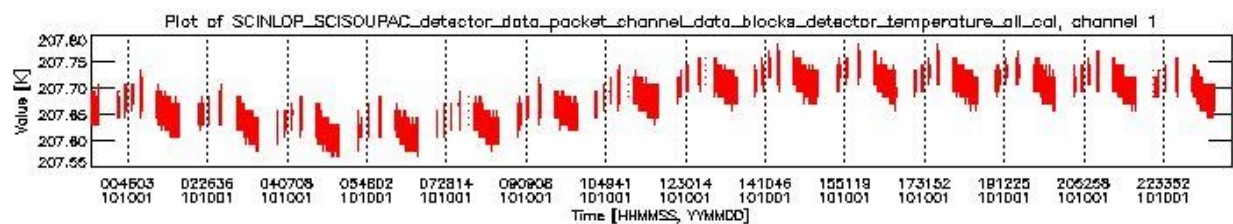
sciamachy\_daily\_report\_level0\_Any\_version\_20101001\_1.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20101001\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20101001\_3.PNG

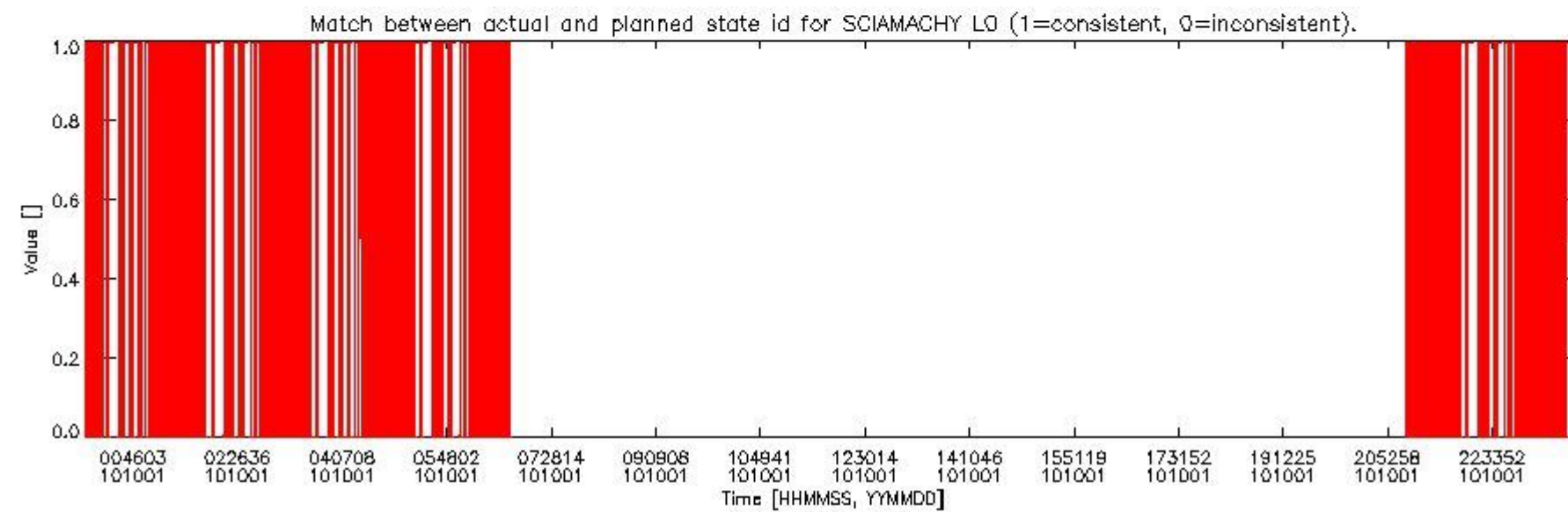
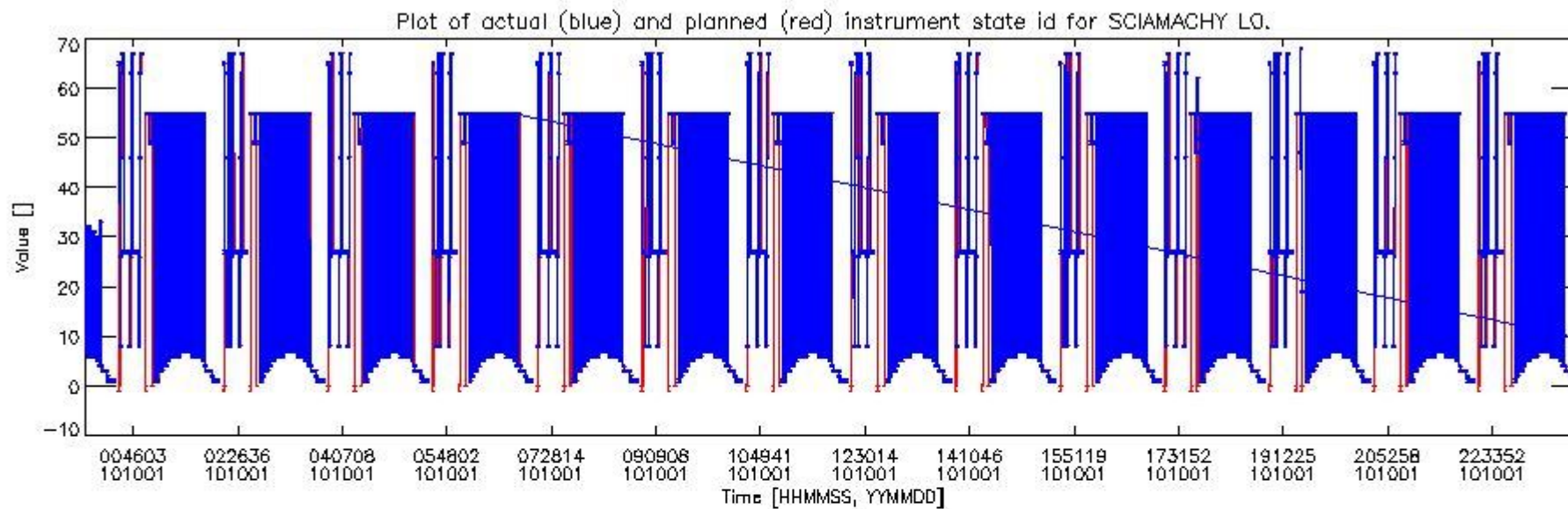


### 0.3 State monitoring

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: **43935**

#	Actual time	Actual value	Planned time	Planned value
0	01OCT2010 00:00:18.577170	7	01OCT2010 00:00:18.577170	32
1	01OCT2010 00:00:18.952170	7	01OCT2010 00:00:18.952170	32
2	01OCT2010 00:00:19.202170	7	01OCT2010 00:00:19.202170	32
3	01OCT2010 00:00:19.452170	7	01OCT2010 00:00:19.452170	32
4	01OCT2010 00:00:19.702170	7	01OCT2010 00:00:19.702170	32
5	01OCT2010 00:00:19.952170	7	01OCT2010 00:00:19.952170	32
6	01OCT2010 00:00:20.202170	7	01OCT2010 00:00:20.202170	32
7	01OCT2010 00:00:20.452170	7	01OCT2010 00:00:20.452170	32
8	01OCT2010 00:00:20.702170	7	01OCT2010 00:00:20.702170	32
9	01OCT2010 00:00:20.952170	7	01OCT2010 00:00:20.952170	32
10	01OCT2010 00:00:21.202170	7	01OCT2010 00:00:21.202170	32
11	01OCT2010 00:00:21.452170	7	01OCT2010 00:00:21.452170	32
12	01OCT2010 00:00:21.702170	7	01OCT2010 00:00:21.702170	32
13	01OCT2010 00:00:21.952170	7	01OCT2010 00:00:21.952170	32
14	01OCT2010 00:00:22.202170	7	01OCT2010 00:00:22.202170	32
15	01OCT2010 00:00:22.452170	7	01OCT2010 00:00:22.452170	32
16	01OCT2010 00:00:22.702170	7	01OCT2010 00:00:22.702170	32
17	01OCT2010 00:00:22.952170	7	01OCT2010 00:00:22.952170	32
18	01OCT2010 00:00:23.202170	7	01OCT2010 00:00:23.202170	32
19	01OCT2010 00:00:23.452170	7	01OCT2010 00:00:23.452170	32
...	...	...	...	...

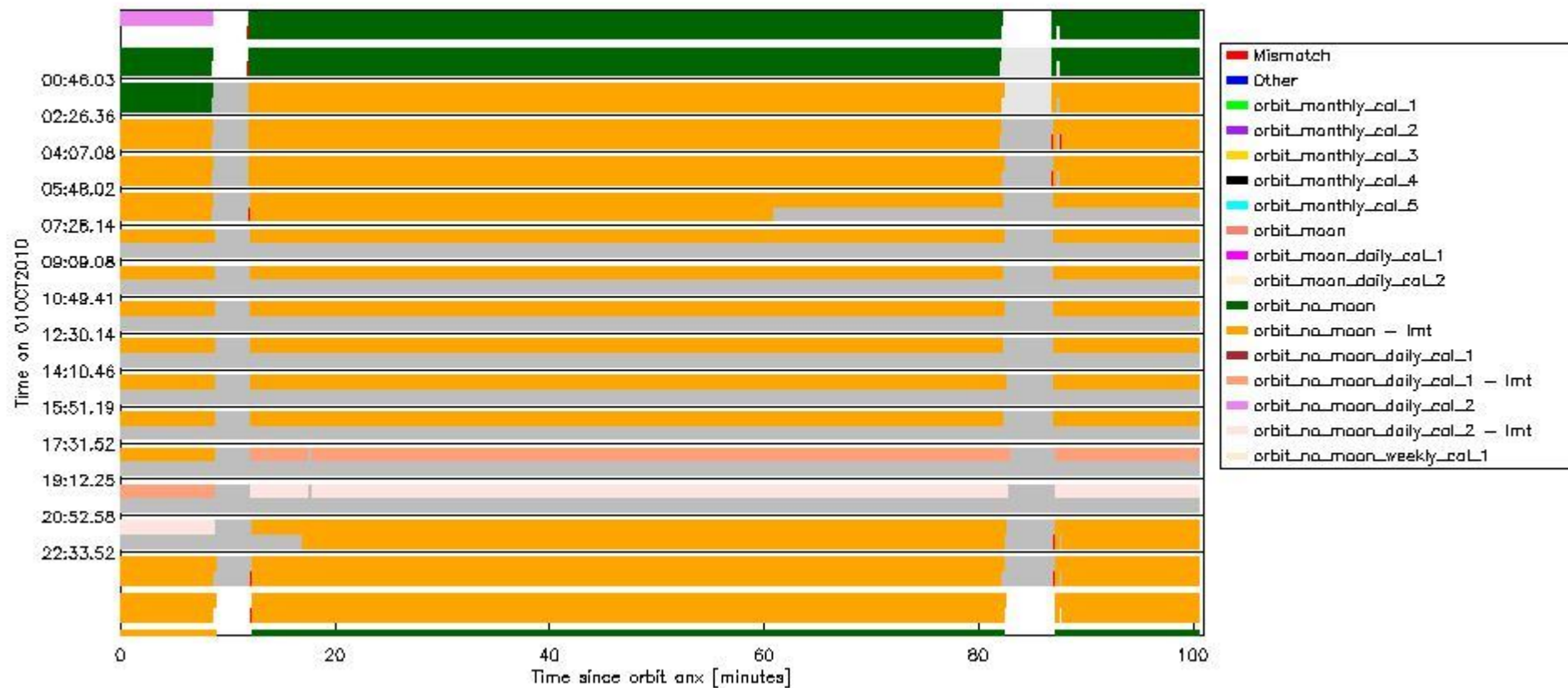


sciamachy\_daily\_report\_level0\_Any\_version\_20101001\_5.PNG

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 01OCT2010.  
 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\_20101001\_6.PNG

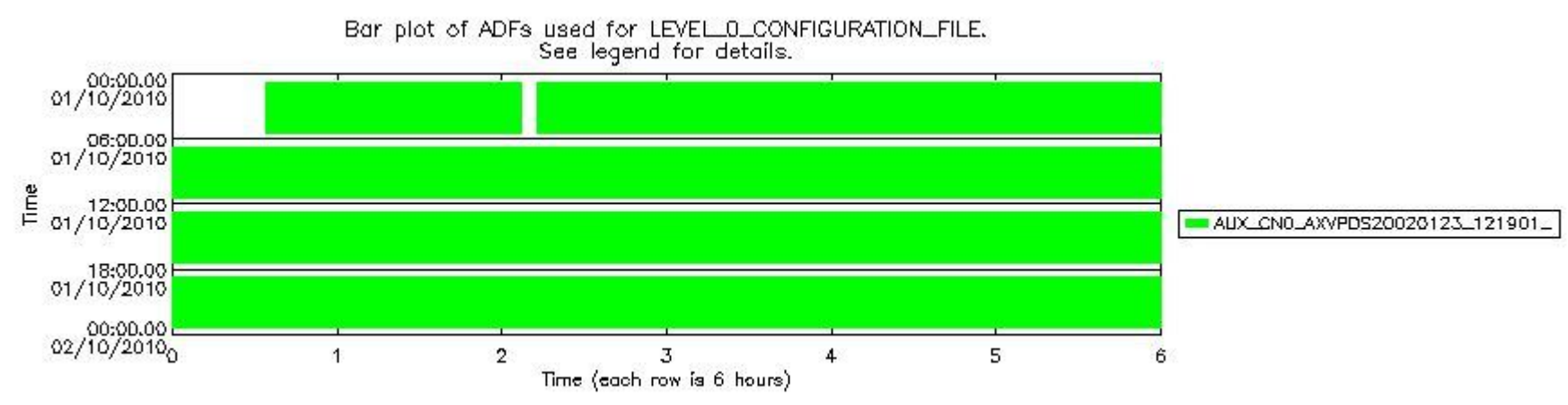
## 0.4 ADF monitoring

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

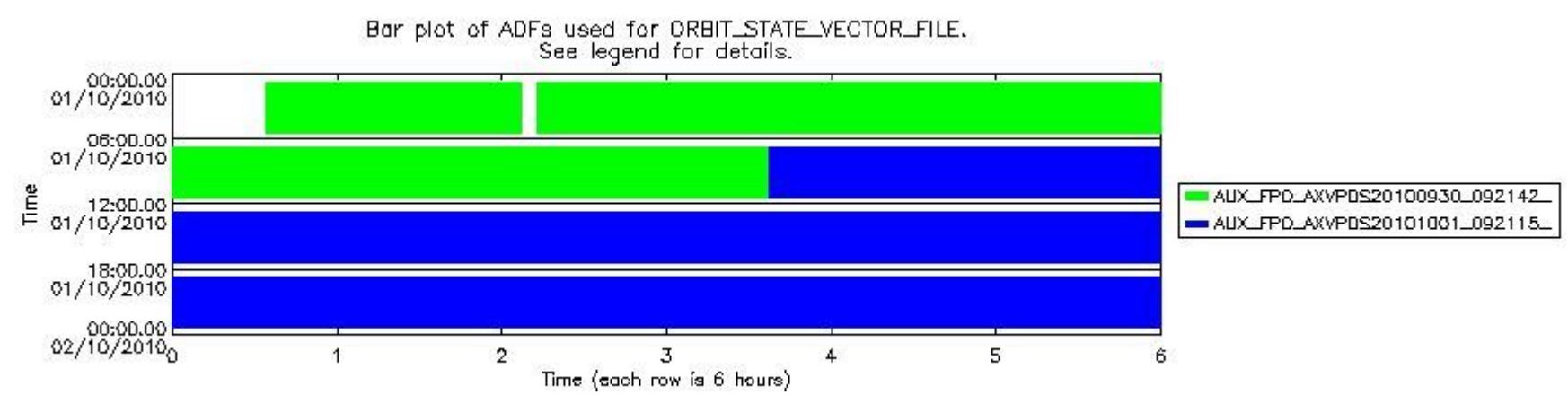
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

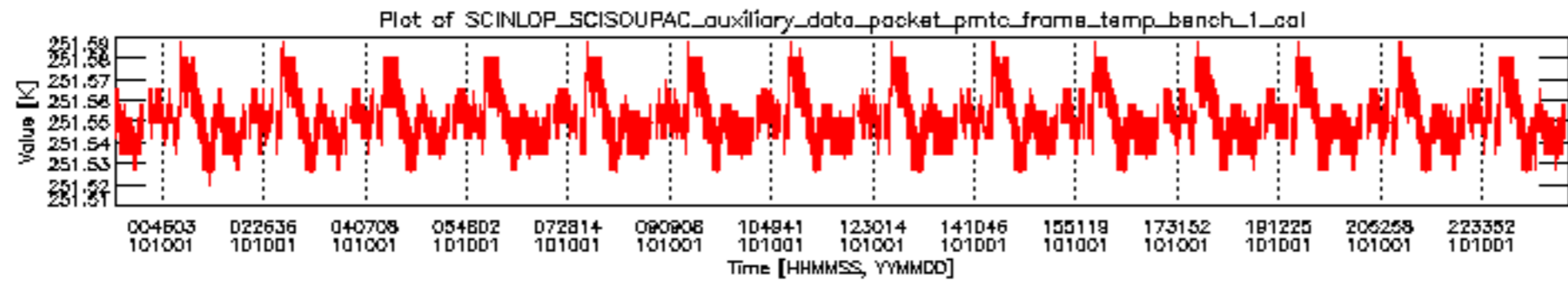
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20100930_092142_20100929_183515_20101009_200126
2	AUX_FPO_AXVPDS20101001_092115_20100930_194413_20101010_211025



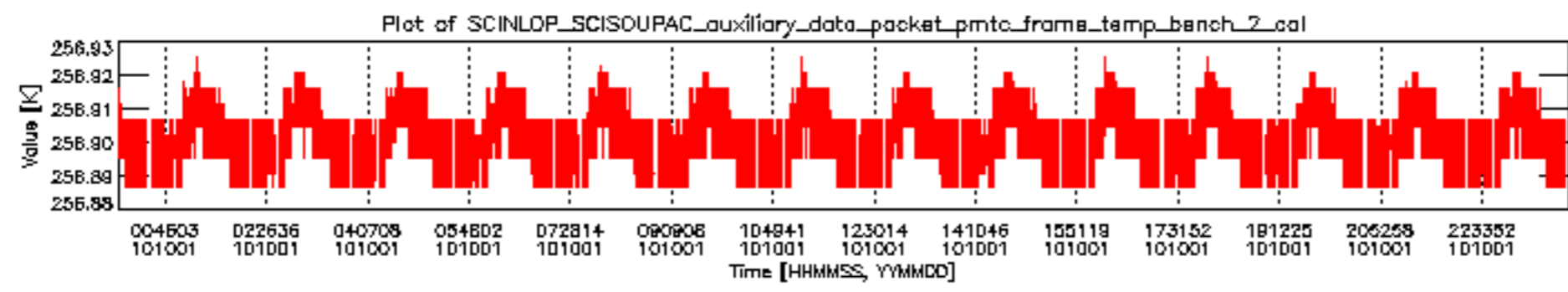
sciamachy\_daily\_report\_level0\_Any\_version\_20101001\_7.PNG

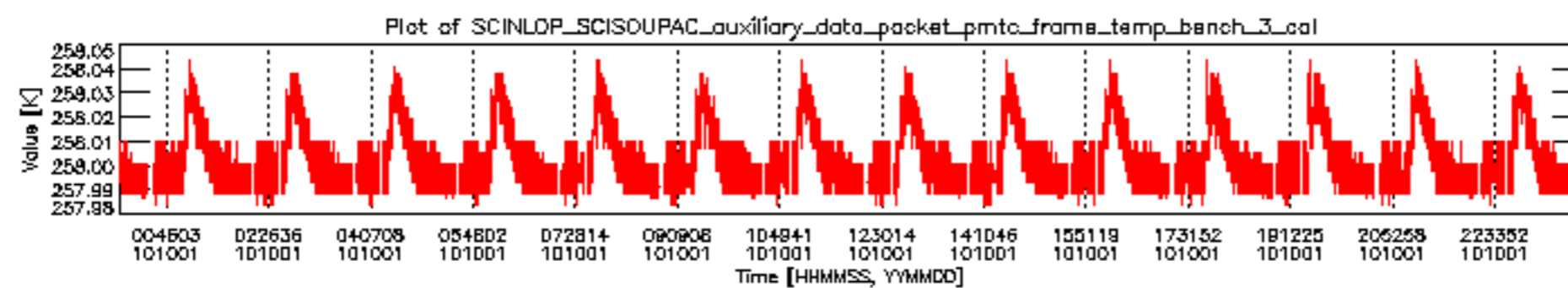


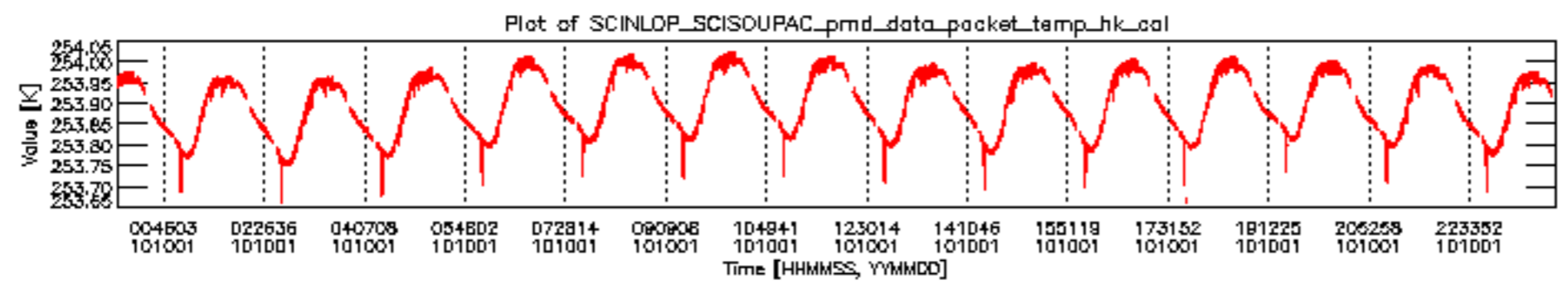
sciamachy\_daily\_report\_level0\_Any\_version\_20101001\_8.PNG

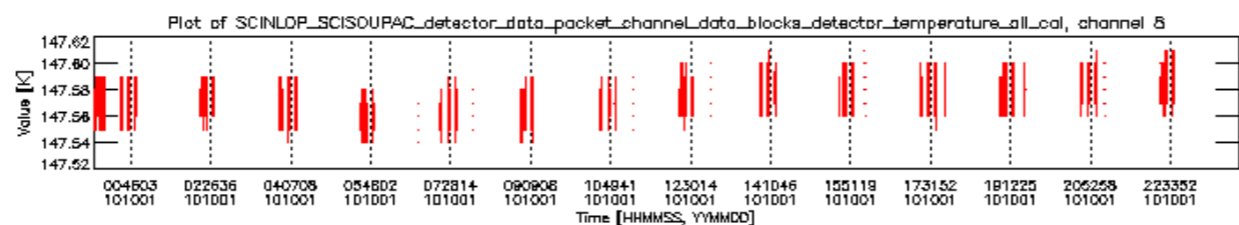
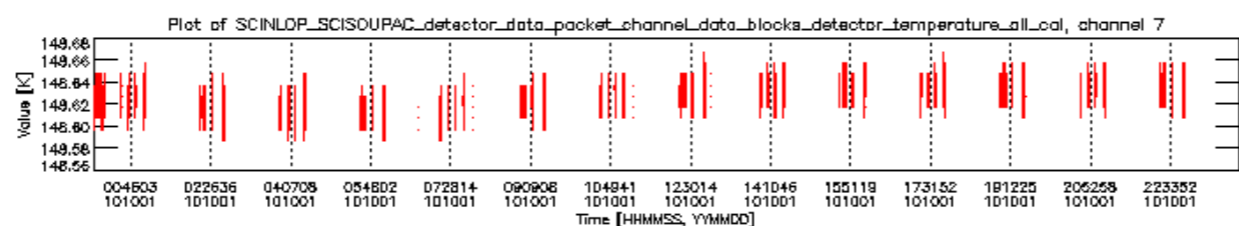
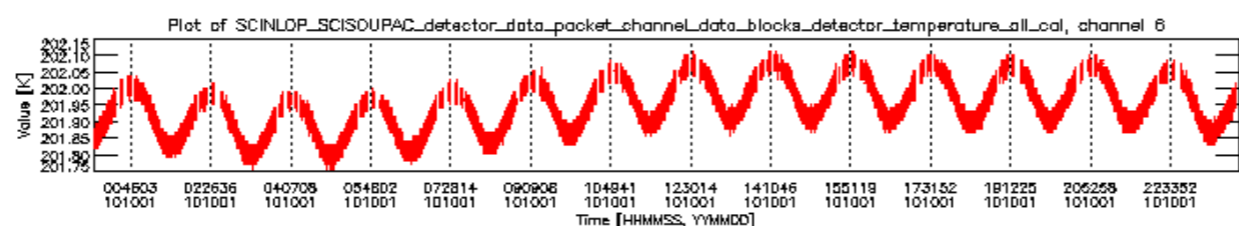
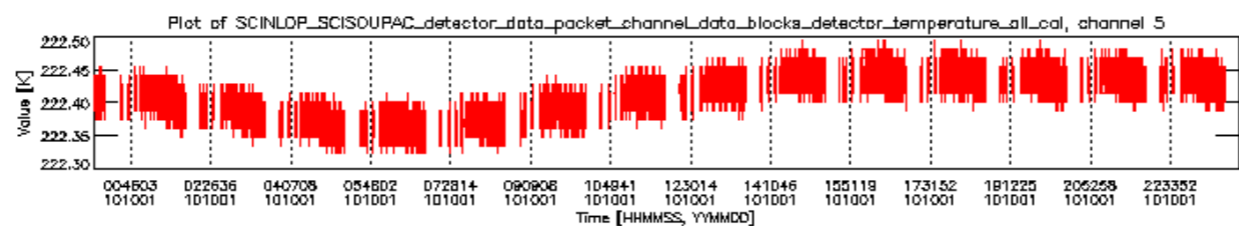
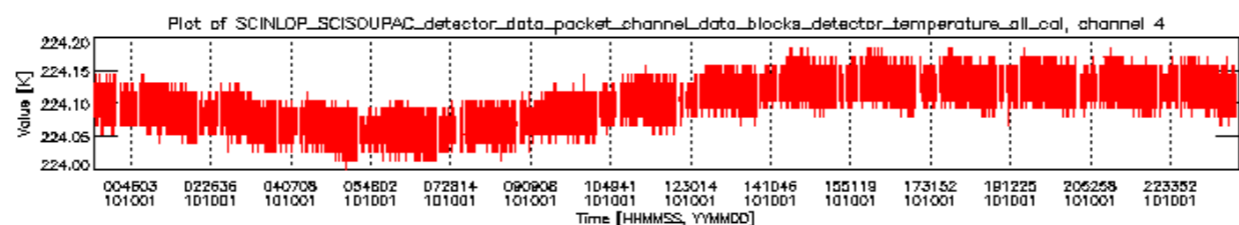
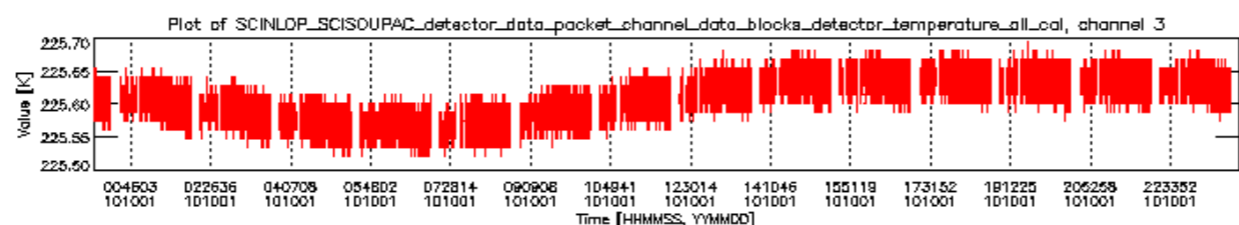
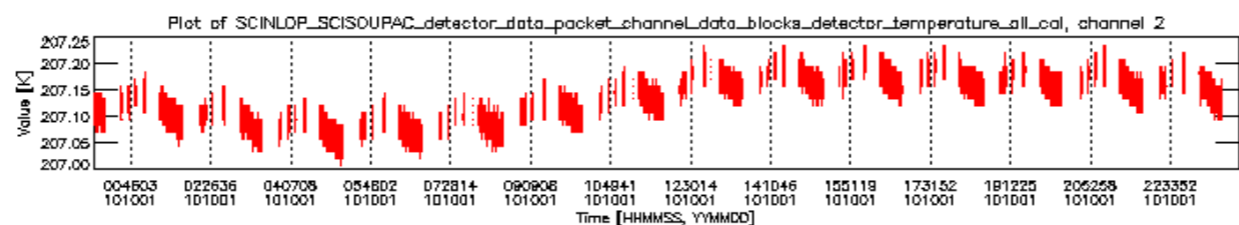
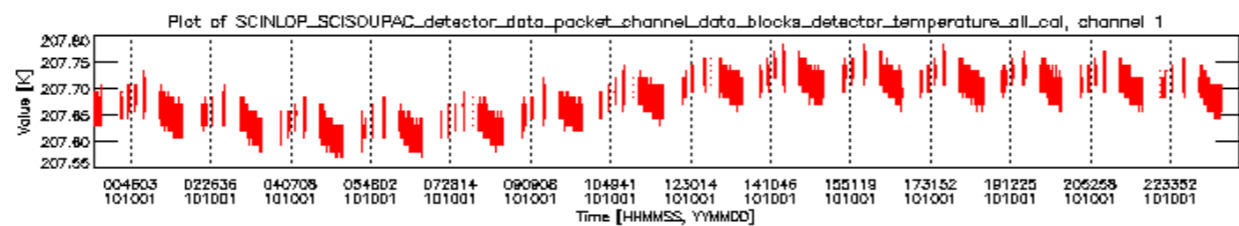


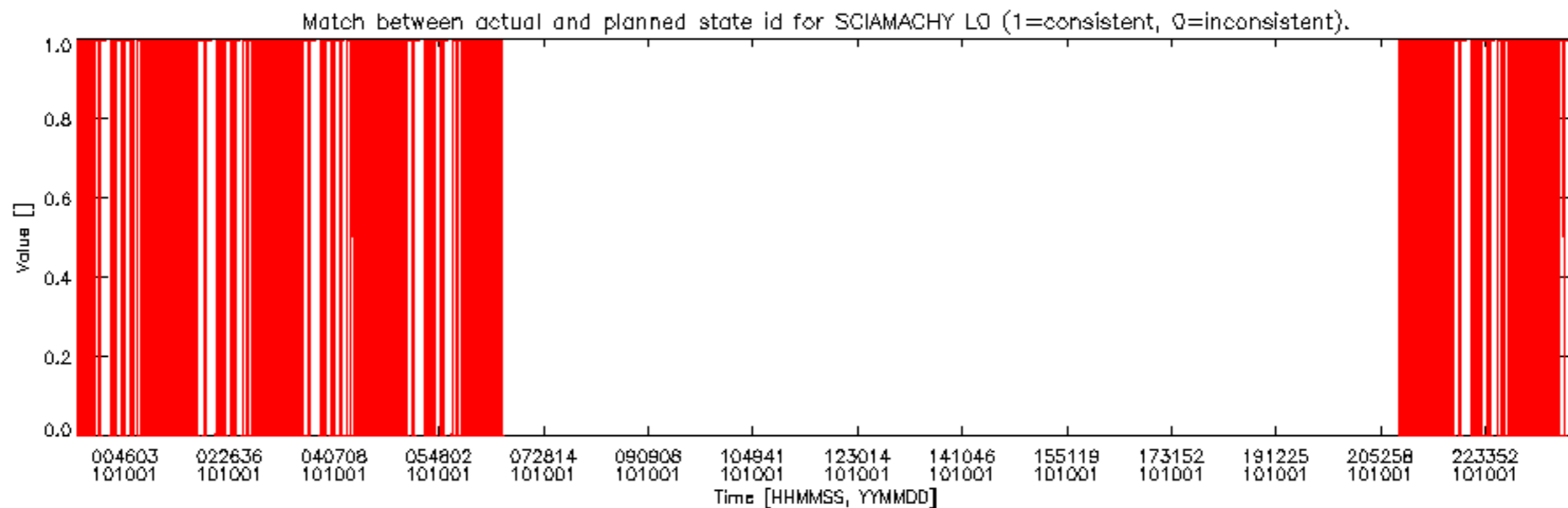
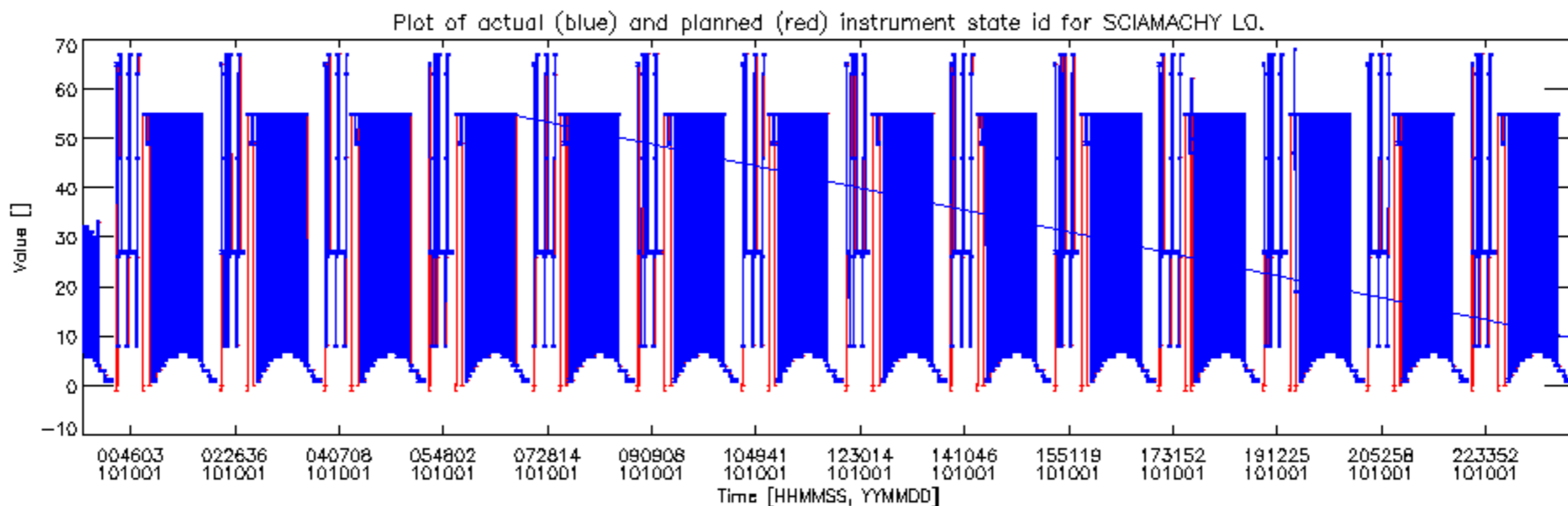




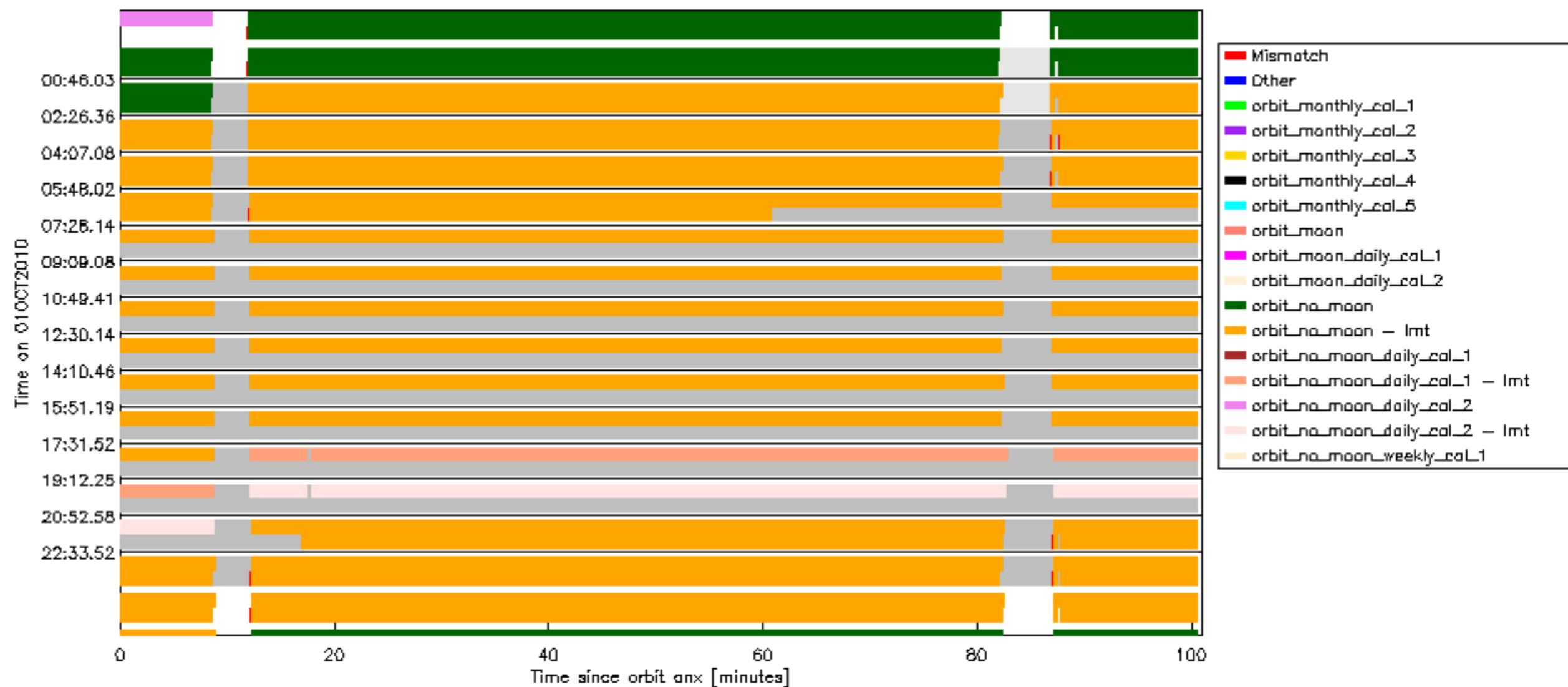


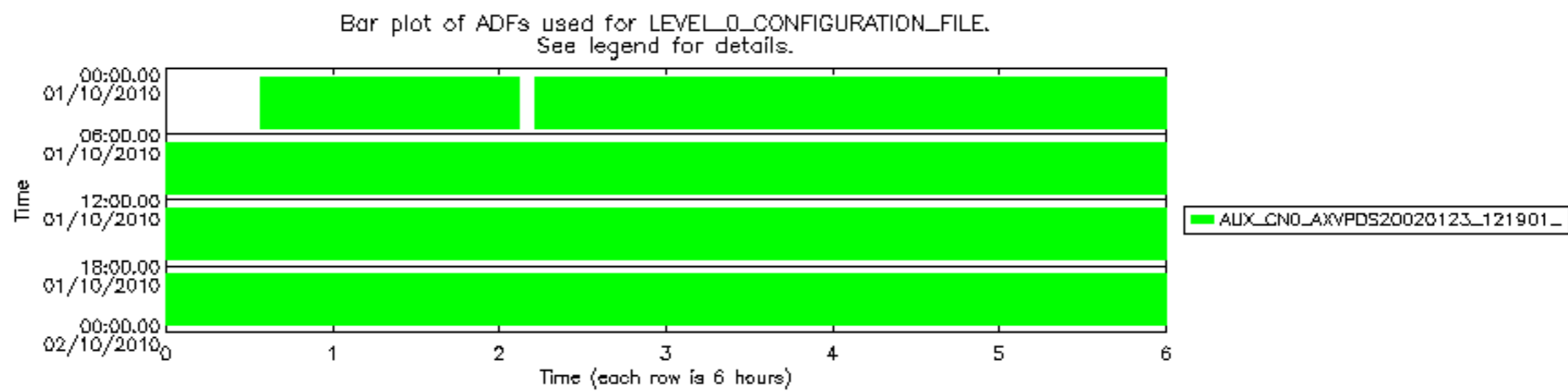






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 01OCT2010.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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 ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

