

## 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	03DEC2010 03:09:33
Data source version	KSPT_L0/4504-N
Processing scope for products	26NOV2010 00:00:00 to 27NOV2010 00:00:00
Start time of first product within scope	26NOV2010 00:02:17
Stop time of last product within scope	27NOV2010 01:05:37
Total number of Level 0 products	15
Number of Level 0 products with errors	0

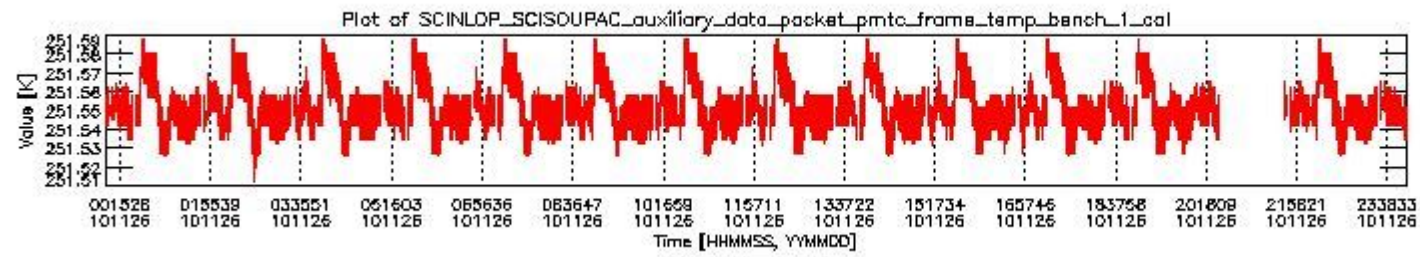
### 0.1.2 Summary per product

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

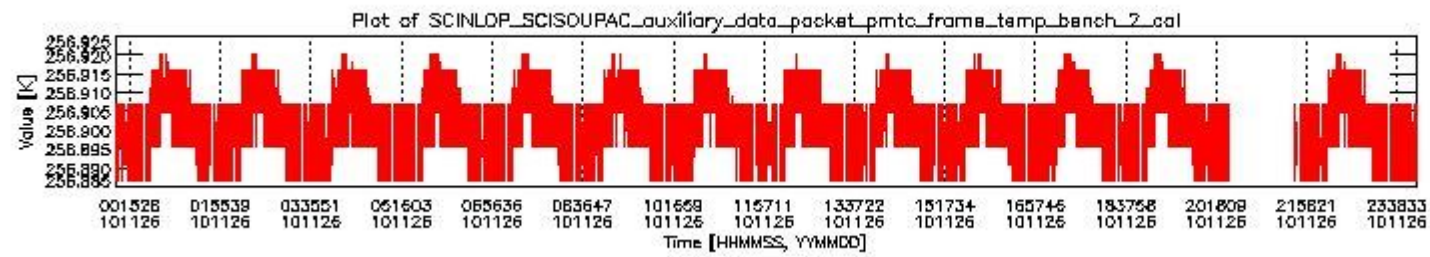
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20101126_000217_000060003096_00418_45691_2010.N1	26NOV2010 00:02:17	26NOV2010 01:42:17	0	0	0	0	0
1	SCI_NL__OPNPDE20101126_014109_000044153096_00419_45692_2012.N1	26NOV2010 01:41:09	26NOV2010 02:54:44	0	0	0	0	0
2	SCI_NL__OPNPDE20101126_025444_000061373096_00420_45693_2013.N1	26NOV2010 02:54:44	26NOV2010 04:37:01	0	0	0	0	0
3	SCI_NL__OPNPDE20101126_043701_000060143096_00421_45694_2014.N1	26NOV2010 04:37:01	26NOV2010 06:17:15	0	0	0	0	0
4	SCI_NL__OPNPDK20101126_061621_000041593096_00422_45695_3063.N1	26NOV2010 06:16:21	26NOV2010 07:25:40	0	0	0	0	0
5	SCI_NL__OPNPDK20101126_072337_000060833096_00423_45696_3064.N1	26NOV2010 07:23:37	26NOV2010 09:05:00	0	0	0	0	0
6	SCI_NL__OPNPDK20101126_090406_000060683096_00424_45697_3065.N1	26NOV2010 09:04:06	26NOV2010 10:45:14	0	0	0	0	0
7	SCI_NL__OPNPDK20101126_104405_000059603096_00425_45698_3066.N1	26NOV2010 10:44:05	26NOV2010 12:23:26	0	0	0	0	0
8	SCI_NL__OPNPDK20101126_122231_000059603096_00426_45699_3067.N1	26NOV2010 12:22:31	26NOV2010 14:01:51	0	0	0	0	0
9	SCI_NL__OPNPDK20101126_140057_000058763096_00427_45700_3068.N1	26NOV2010 14:00:57	26NOV2010 15:38:54	0	0	0	0	0
10	SCI_NL__OPNPDK20101126_153854_000059053096_00428_45701_3069.N1	26NOV2010 15:38:54	26NOV2010 17:17:19	0	0	0	0	0
11	SCI_NL__OPNPDK20101126_171624_000059603096_00429_45702_3070.N1	26NOV2010 17:16:24	26NOV2010 18:55:45	0	0	0	0	0
12	SCI_NL__OPNPDK20101126_185545_000057583096_00430_45703_3071.N1	26NOV2010 18:55:45	26NOV2010 20:31:43	0	0	0	0	0
13	SCI_NL__OPNPDE20101126_214400_000060973096_00431_45704_2015.N1	26NOV2010 21:44:00	26NOV2010 23:25:37	0	0	0	0	0
14	SCI_NL__OPNPDE20101126_233048_000056893097_00001_45705_2016.N1	26NOV2010 23:30:48	27NOV2010 01:05:37	0	0	0	0	0

## 0.2 Product Quality Indicators

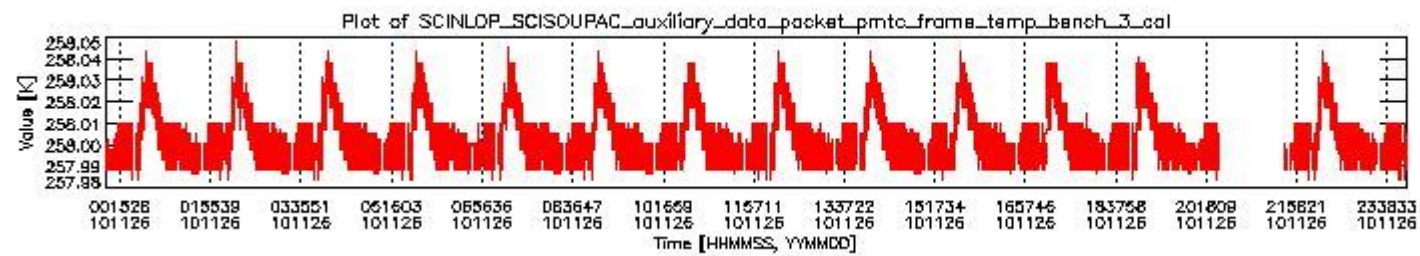
This section shows information about product quality, currently temperatures.



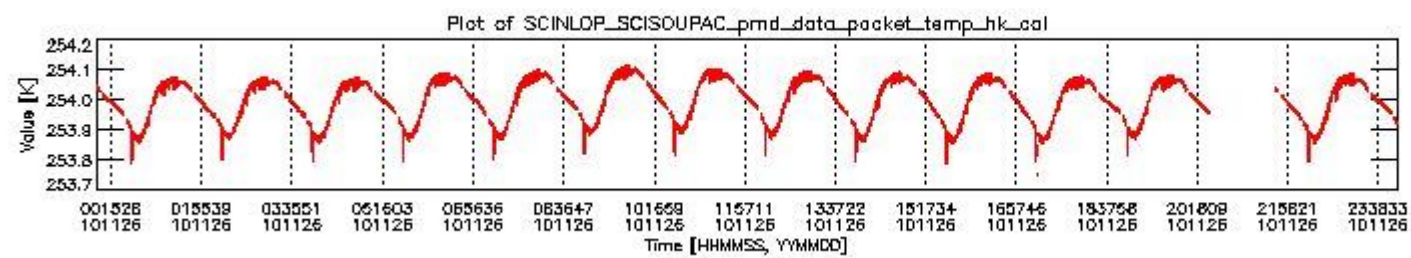
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101126\_0.PNG



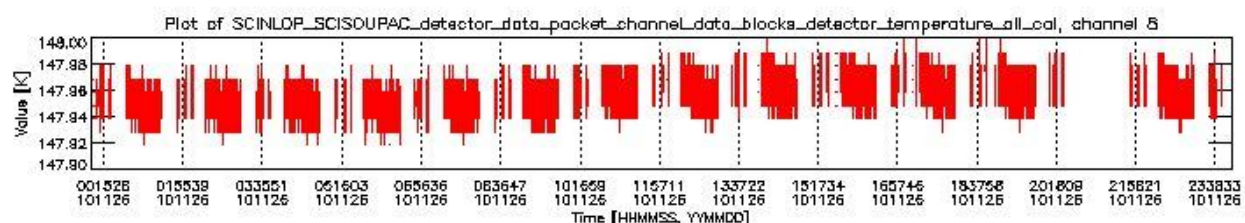
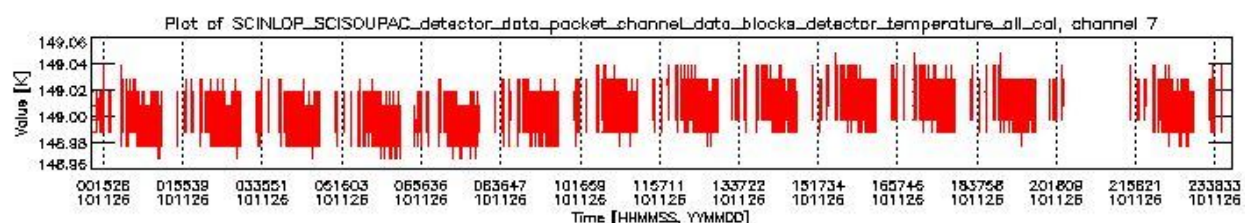
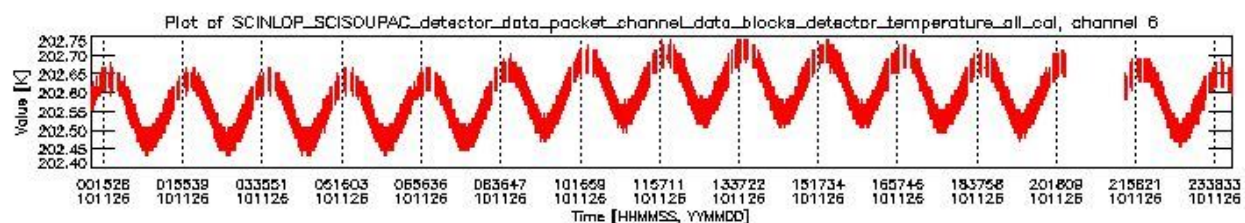
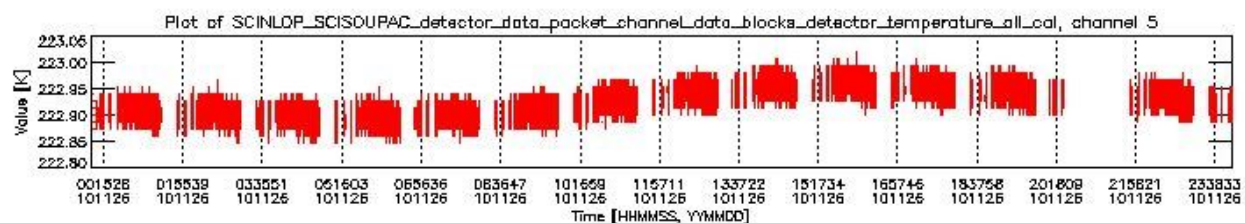
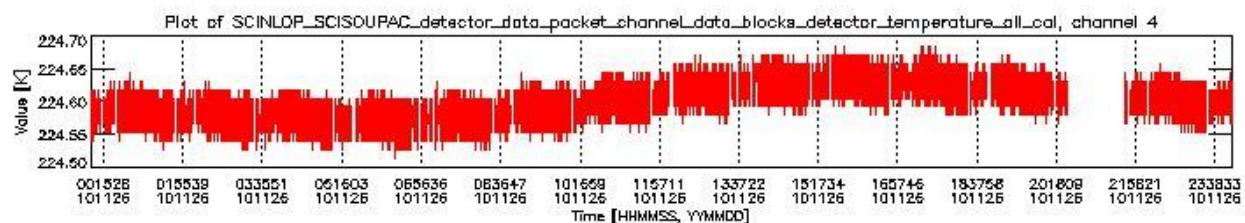
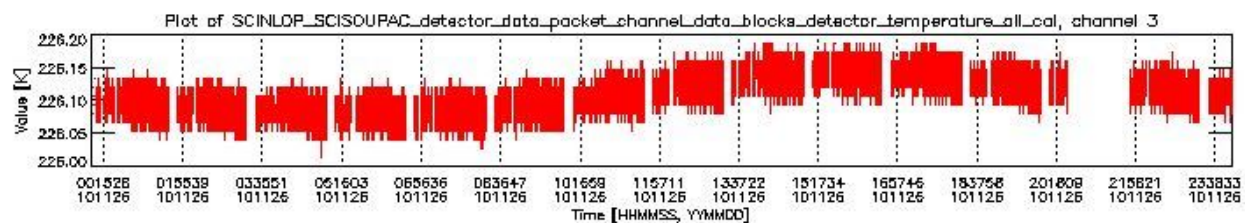
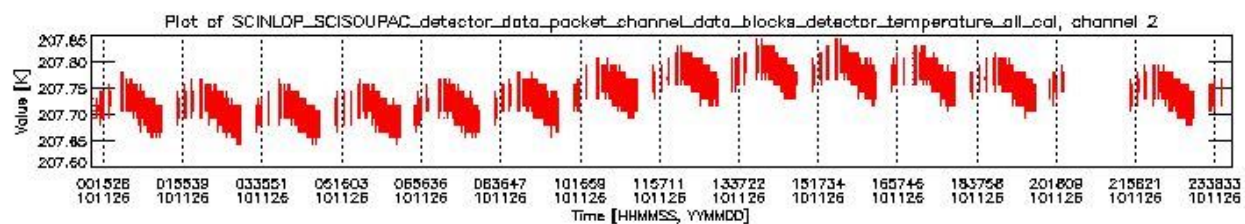
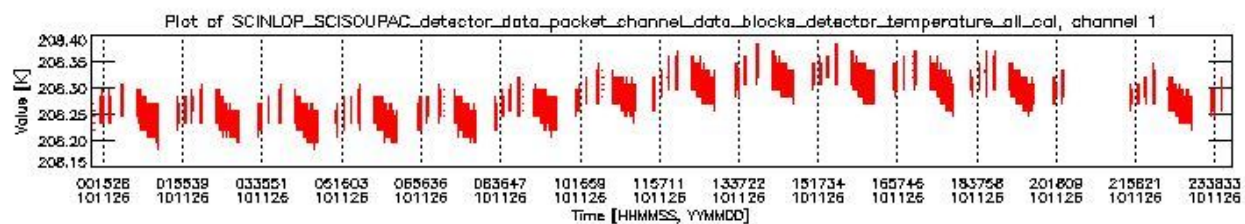
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101126\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101126\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101126\_3.PNG

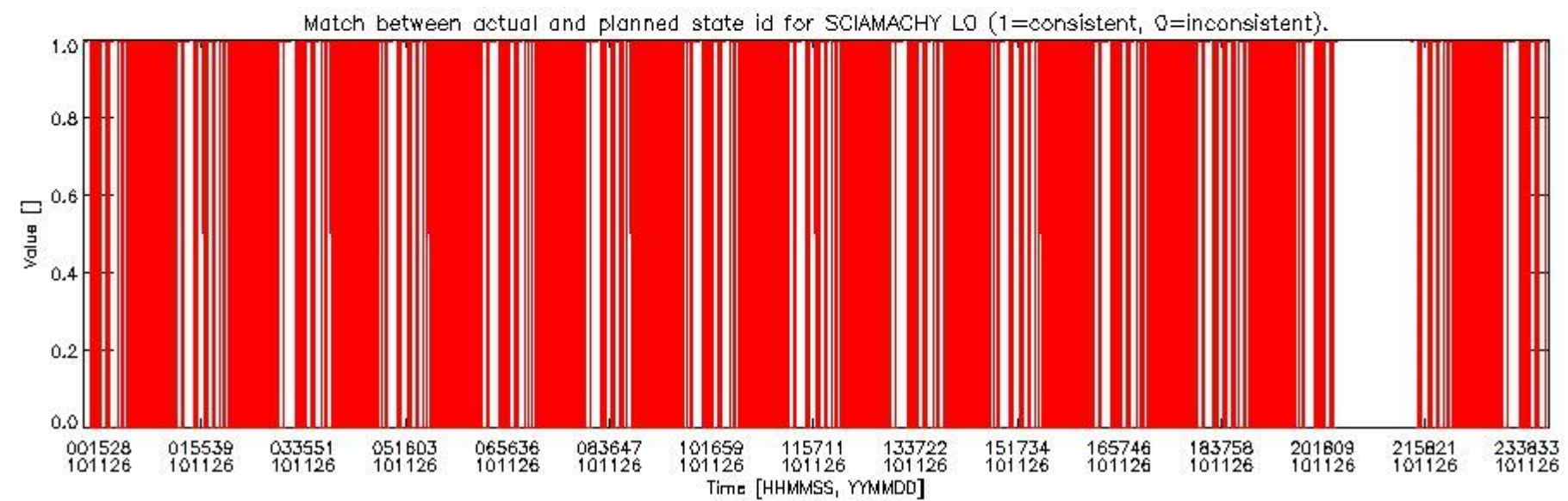
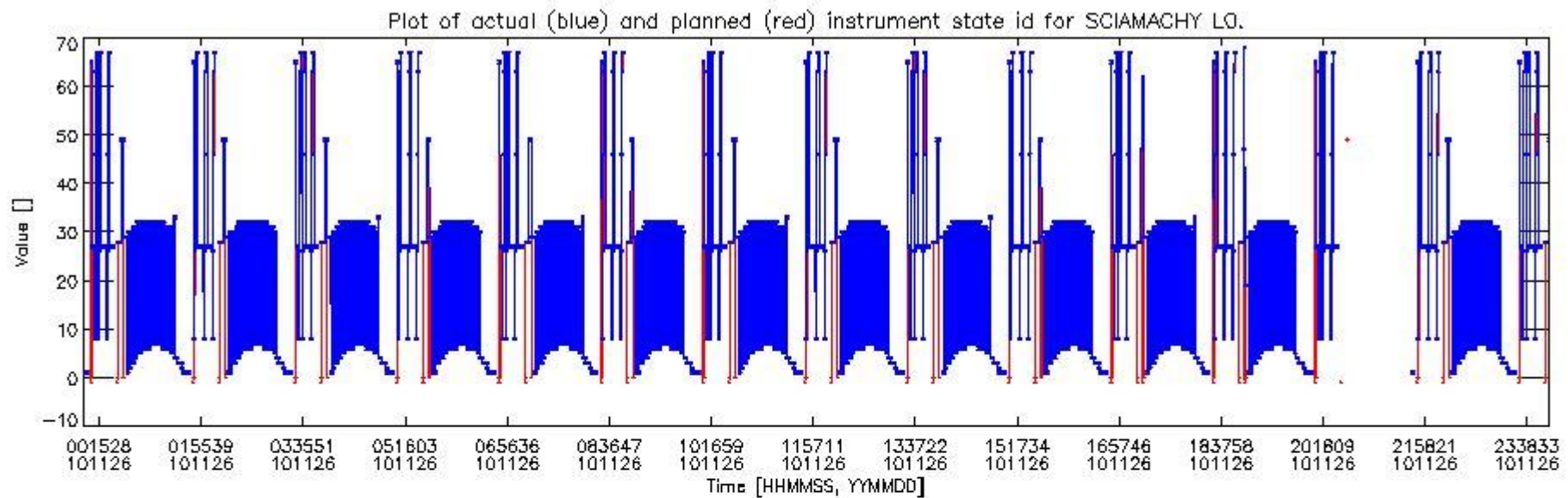


### 0.3 State monitoring

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: **28150**

#	Actual time	Actual value	Planned time	Planned value
0	26NOV2010 00:07:27.647208	65	26NOV2010 00:07:27.647208	0
1	26NOV2010 00:07:28.272208	65	26NOV2010 00:07:28.272208	0
2	26NOV2010 00:07:28.772208	65	26NOV2010 00:07:28.772208	0
3	26NOV2010 00:07:29.272208	65	26NOV2010 00:07:29.272208	0
4	26NOV2010 00:07:29.772208	65	26NOV2010 00:07:29.772208	0
5	26NOV2010 00:07:30.272208	65	26NOV2010 00:07:30.272208	0
6	26NOV2010 00:07:30.772208	65	26NOV2010 00:07:30.772208	0
7	26NOV2010 00:07:31.272208	65	26NOV2010 00:07:31.272208	0
8	26NOV2010 00:07:31.772208	65	26NOV2010 00:07:31.772208	0
9	26NOV2010 00:08:11.405026	27	26NOV2010 00:08:11.405026	0
10	26NOV2010 00:08:12.405026	27	26NOV2010 00:08:12.405026	0
11	26NOV2010 00:08:13.342526	27	26NOV2010 00:08:13.342526	0
12	26NOV2010 00:08:14.092526	27	26NOV2010 00:08:14.092526	0
13	26NOV2010 00:08:15.030026	27	26NOV2010 00:08:15.030026	0
14	26NOV2010 00:08:15.780026	27	26NOV2010 00:08:15.780026	0
15	26NOV2010 00:08:16.405026	27	26NOV2010 00:08:16.405026	0
16	26NOV2010 00:08:16.717526	27	26NOV2010 00:08:16.717526	0
17	26NOV2010 00:08:17.467526	27	26NOV2010 00:08:17.467526	0
18	26NOV2010 00:10:23.580824	8	26NOV2010 00:10:23.580824	27
19	26NOV2010 00:10:24.205824	8	26NOV2010 00:10:24.205824	27
...	...	...	...	...

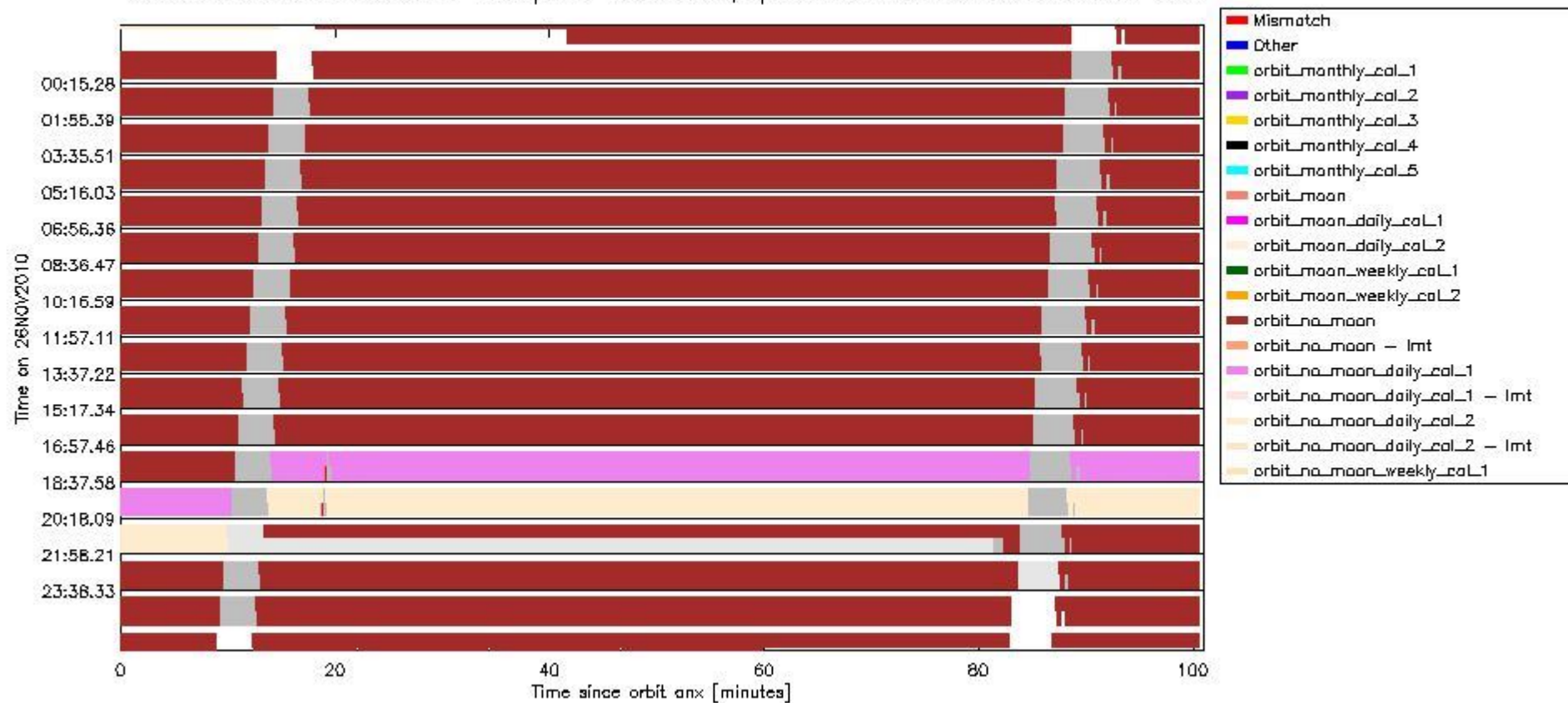


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101126\_5.PNG

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 26NOV2010.  
 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\_20101126\_6.PNG

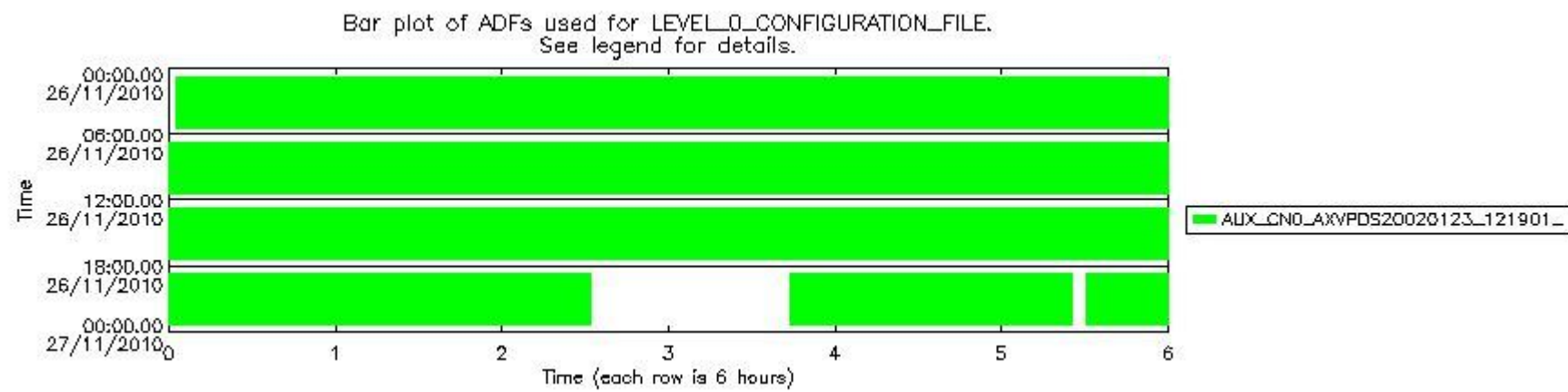
## 0.4 ADF monitoring

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

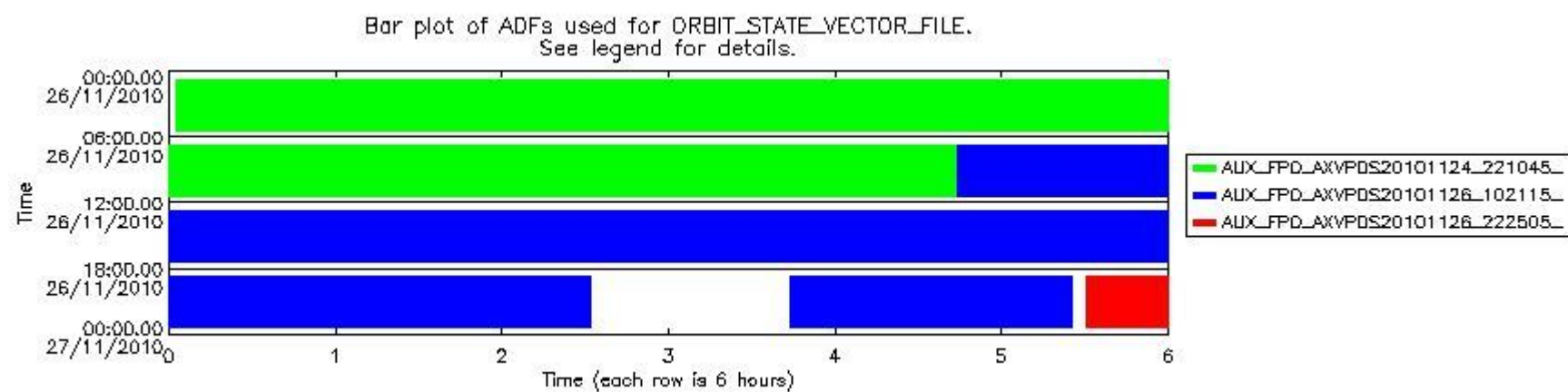
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

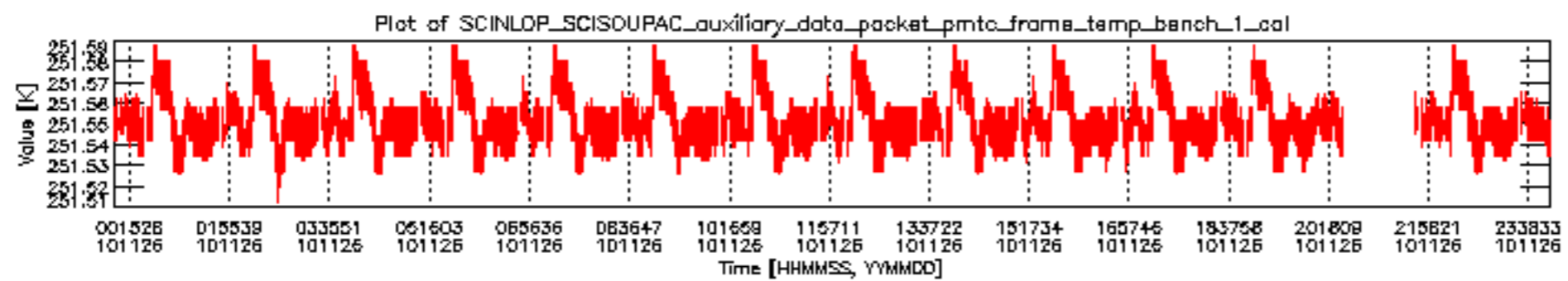
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20101124_221045_20101124_195128_20101204_202509</b>
2	<b>AUX_FPO_AXVPDS20101126_102115_20101125_191444_20101205_212839</b>
3	<b>AUX_FPO_AXVPDS20101126_222505_20101126_183801_20101206_205156</b>



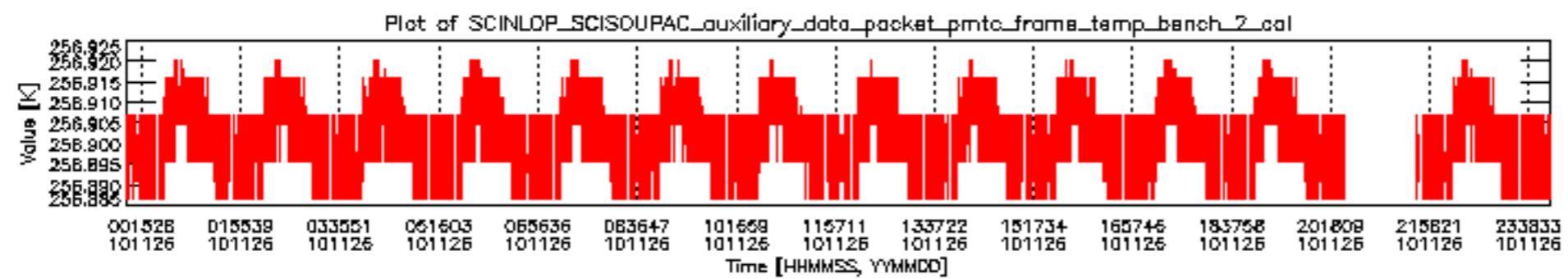
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101126\_7.PNG

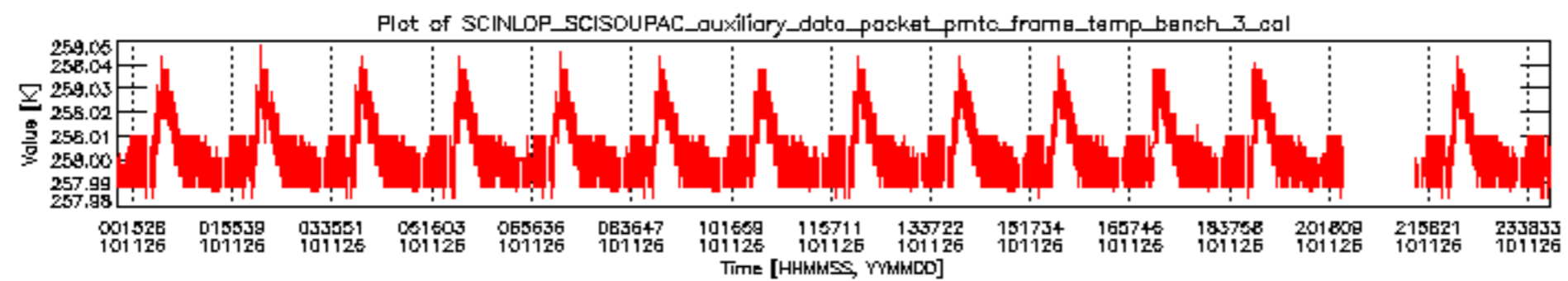


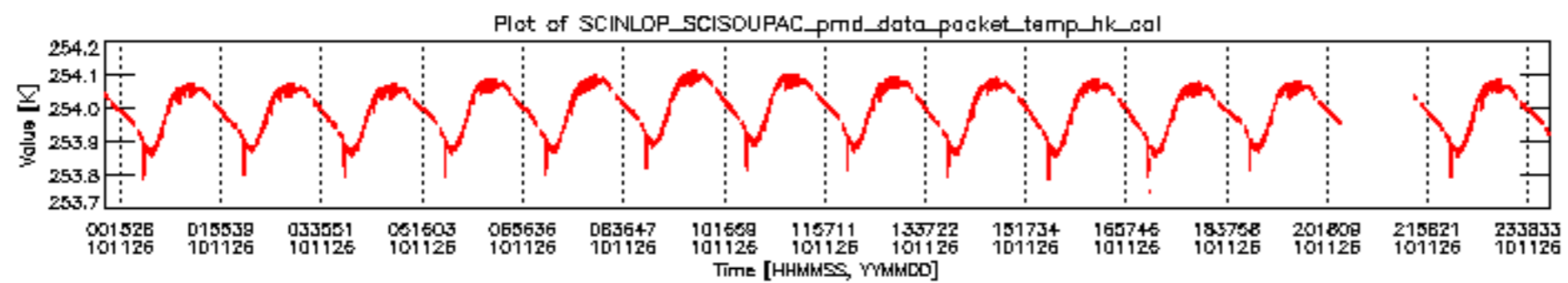
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101126\_8.PNG

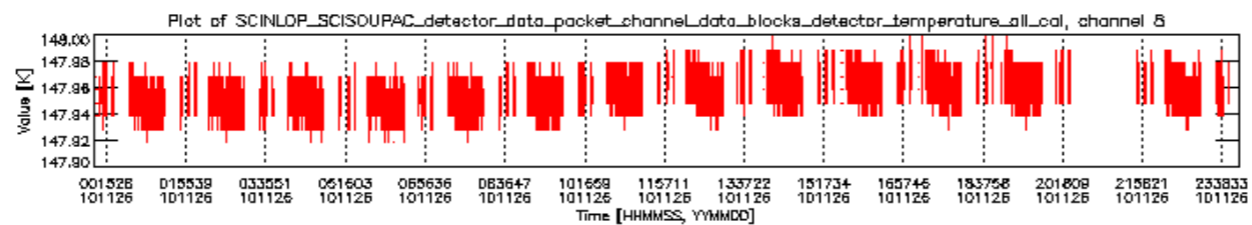
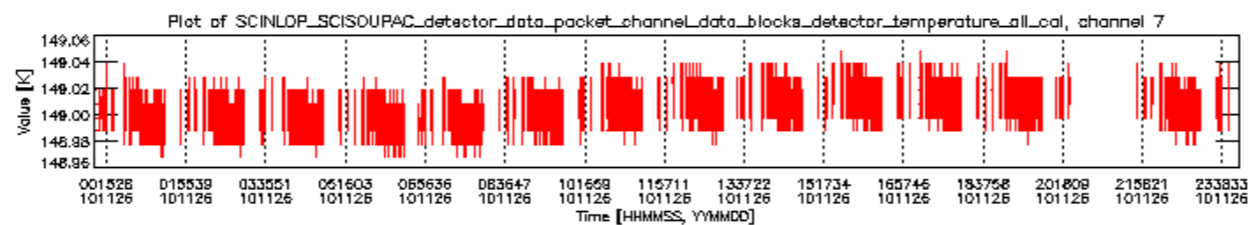
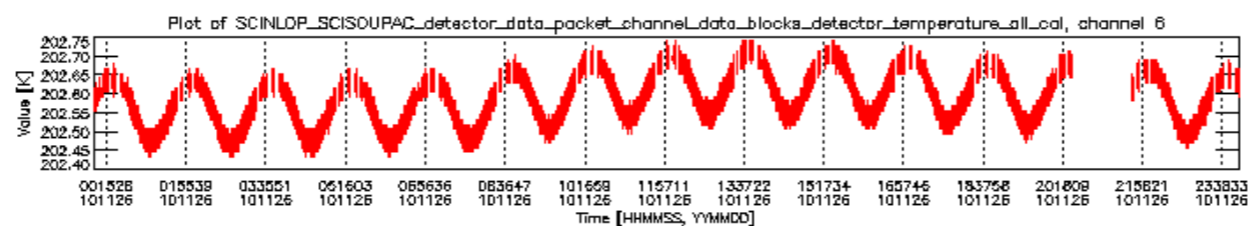
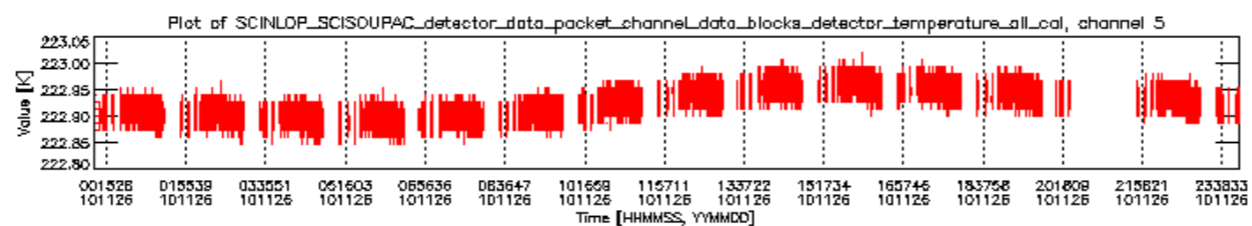
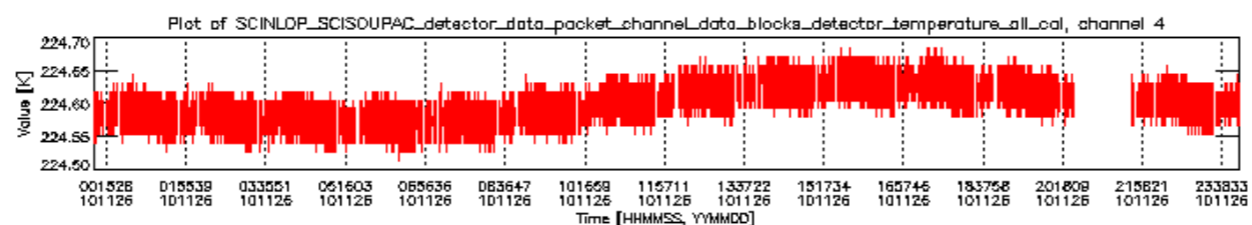
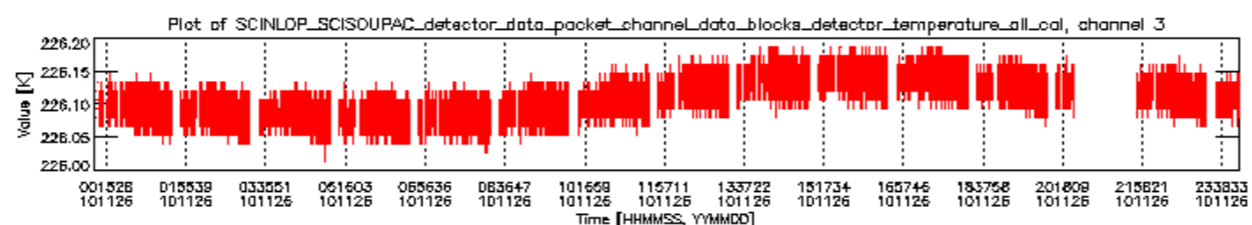
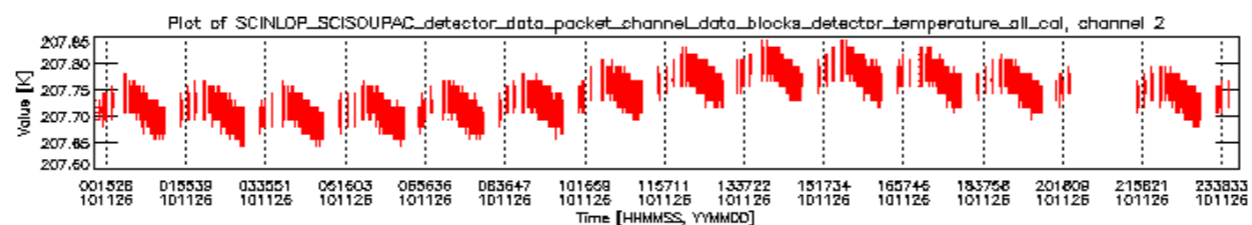
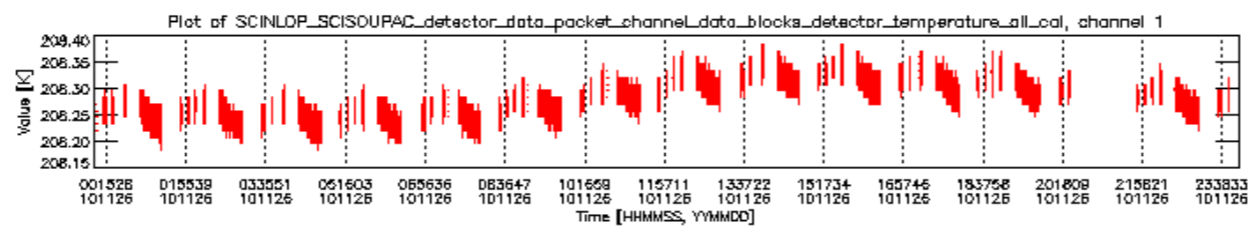


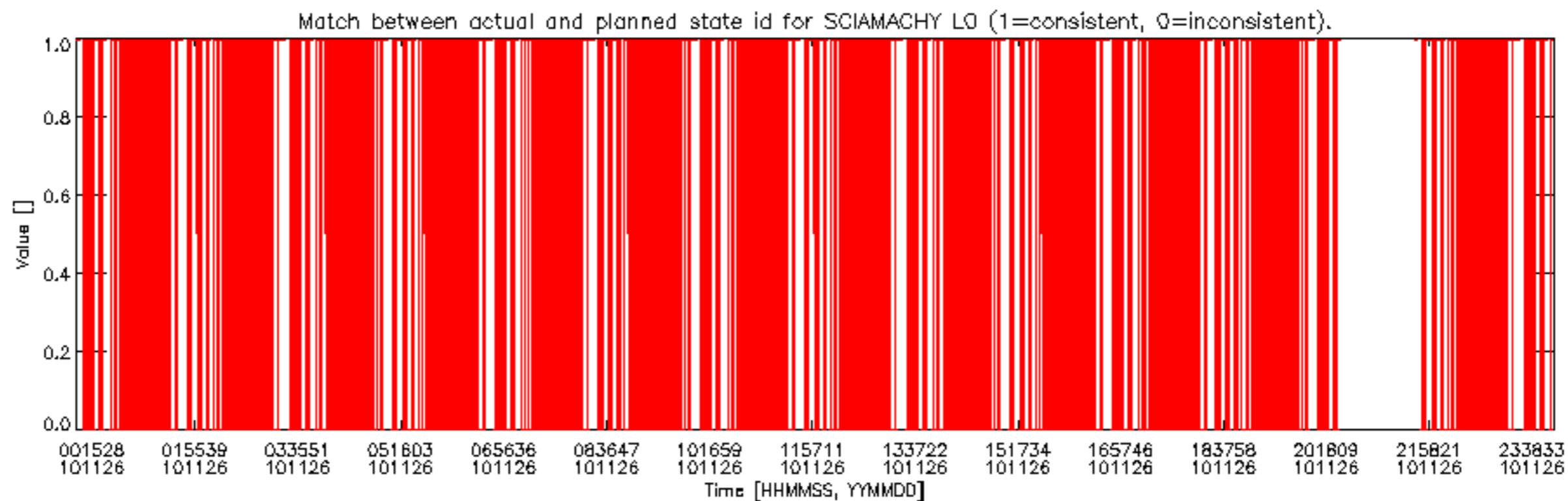
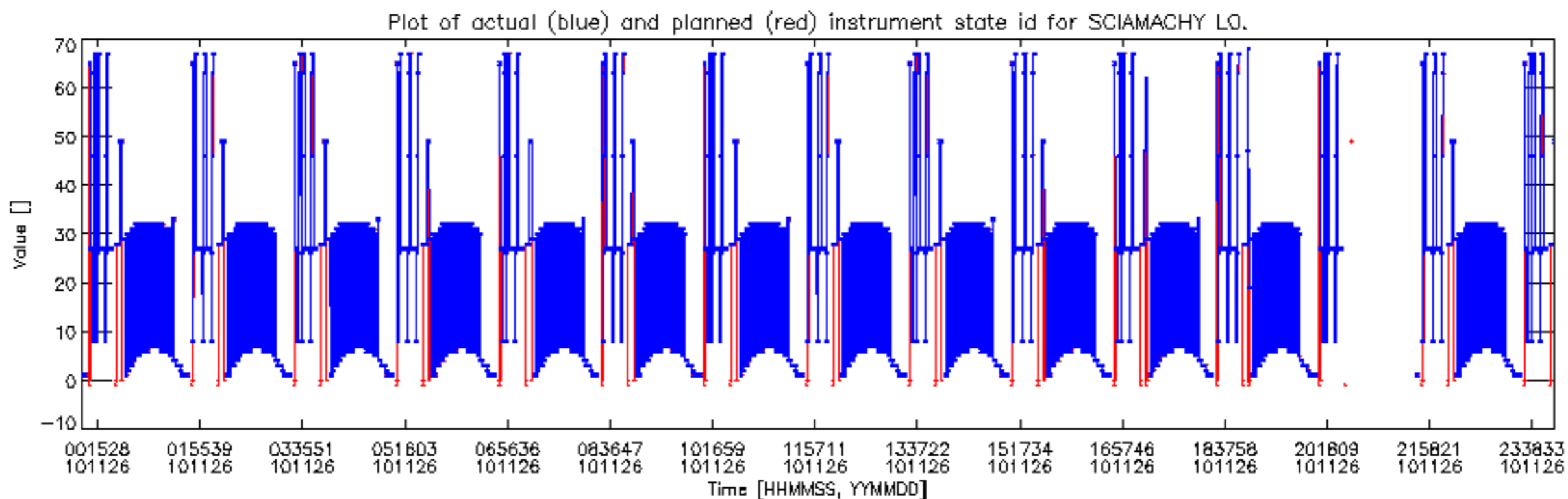




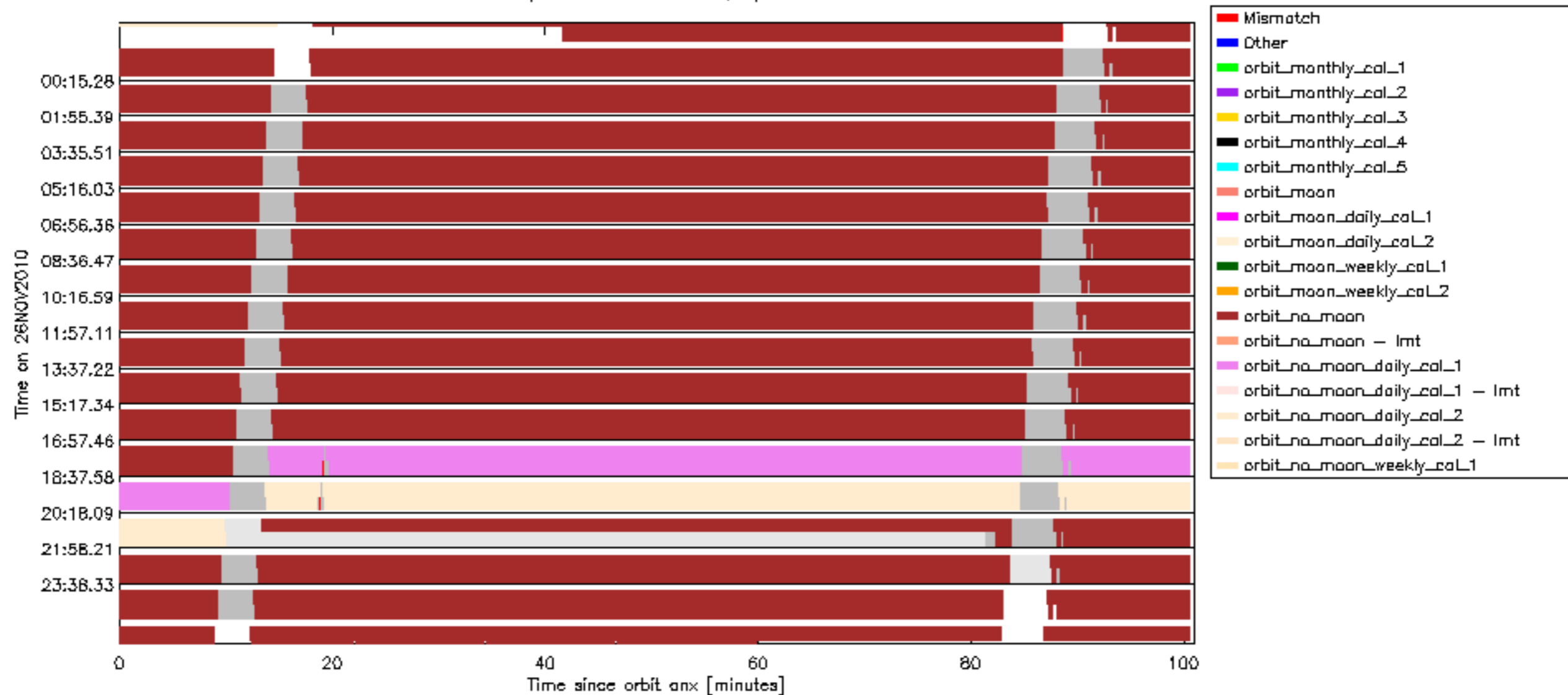


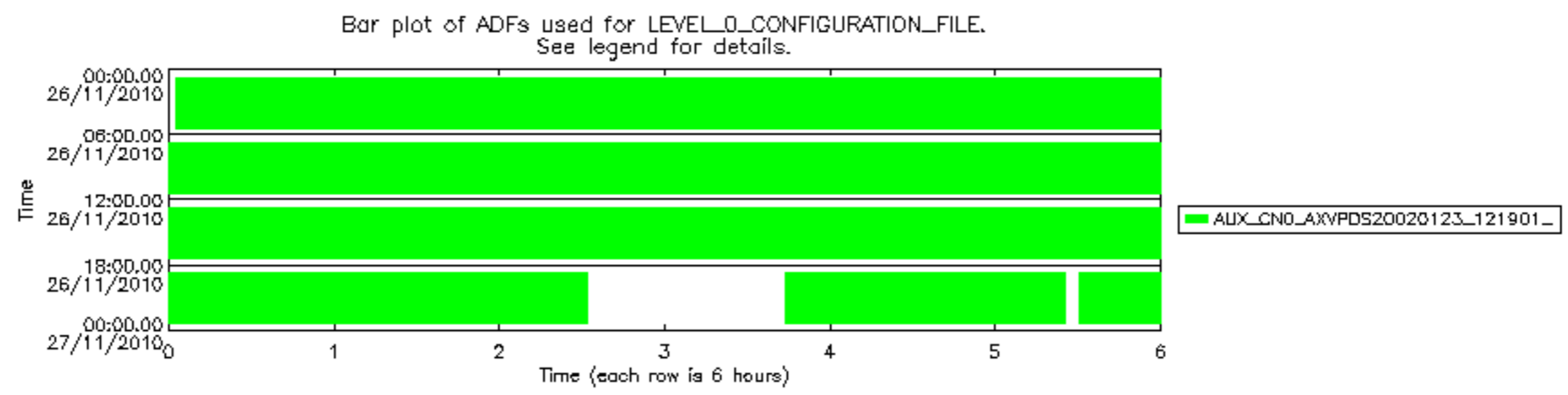






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 26NOV2010.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

