

## 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	09DEC2010 02:57:56
Data source version	KSPT_L0/4504-N
Processing scope for products	02DEC2010 00:00:00 to 03DEC2010 00:00:00
Start time of first product within scope	02DEC2010 01:22:19
Stop time of last product within scope	03DEC2010 00:46:01
Total number of Level 0 products	13
Number of Level 0 products with errors	0

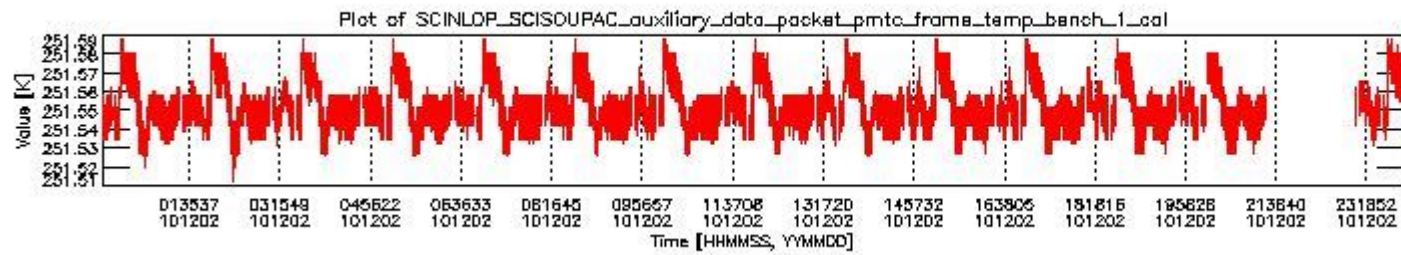
### 0.1.2 Summary per product

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

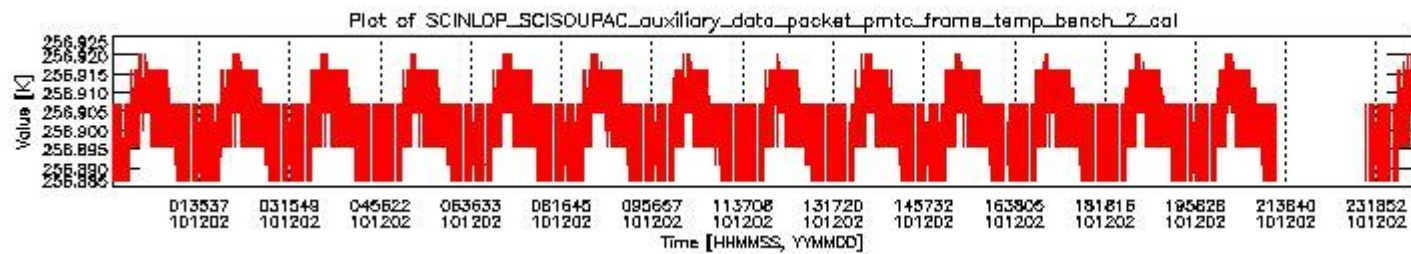
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20101202_012219_000103153097_00074_45778_2049.N1	02DEC2010 01:22:19	02DEC2010 04:14:14	0	0	0	0	0
1	SCI_NL__OPNPDE20101202_041414_000062063097_00076_45780_2051.N1	02DEC2010 04:14:14	02DEC2010 05:57:39	0	0	0	0	0
2	SCI_NL__OPNPDK20101202_055739_000039823097_00077_45781_3115.N1	02DEC2010 05:57:39	02DEC2010 07:04:01	0	0	0	0	0
3	SCI_NL__OPNPDK20101202_070213_000063143097_00078_45782_3116.N1	02DEC2010 07:02:13	02DEC2010 08:47:27	0	0	0	0	0
4	SCI_NL__OPNPDK20101202_084524_000060683097_00079_45783_3117.N1	02DEC2010 08:45:24	02DEC2010 10:26:32	0	0	0	0	0
5	SCI_NL__OPNPDK20101202_102430_000059063097_00080_45784_3118.N1	02DEC2010 10:24:30	02DEC2010 12:02:55	0	0	0	0	0
6	SCI_NL__OPNPDK20101202_120201_000060683097_00081_45785_3119.N1	02DEC2010 12:02:01	02DEC2010 13:43:10	0	0	0	0	0
7	SCI_NL__OPNPDK20101202_134215_000058223097_00082_45786_3120.N1	02DEC2010 13:42:15	02DEC2010 15:19:18	0	0	0	0	0
8	SCI_NL__OPNPDK20101202_151918_000060143097_00083_45787_3121.N1	02DEC2010 15:19:18	02DEC2010 16:59:32	0	0	0	0	0
9	SCI_NL__OPNPDK20101202_165932_000055063097_00084_45788_3122.N1	02DEC2010 16:59:32	02DEC2010 18:31:18	0	0	0	0	0
10	SCI_NL__OPNPDK20101202_183608_000057633097_00085_45789_3123.N1	02DEC2010 18:36:08	02DEC2010 20:12:11	0	0	0	0	0
11	SCI_NL__OPNPDE20101202_201211_000044173097_00086_45790_2052.N1	02DEC2010 20:12:11	02DEC2010 21:25:48	0	0	0	0	0
12	SCI_NL__OPNPDE20101202_230601_000060003097_00087_45791_2053.N1	02DEC2010 23:06:01	03DEC2010 00:46:01	0	0	0	0	0

## 0.2 Product Quality Indicators

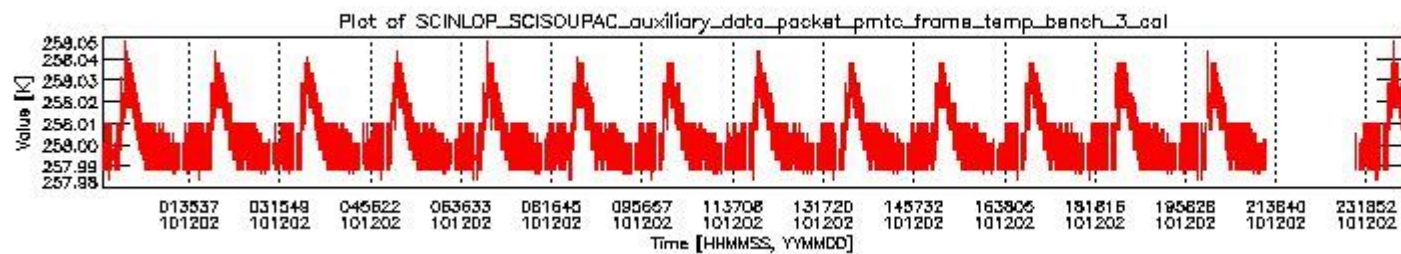
This section shows information about product quality, currently temperatures.



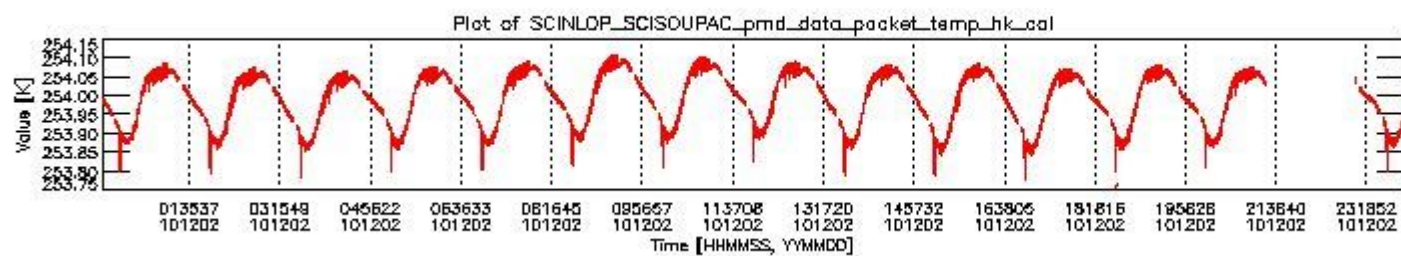
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101202\_0.PNG



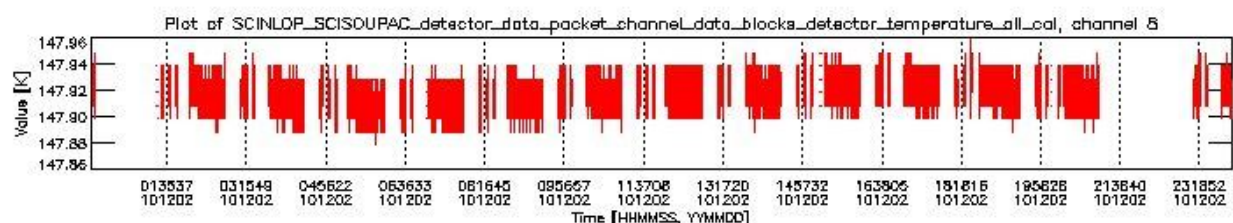
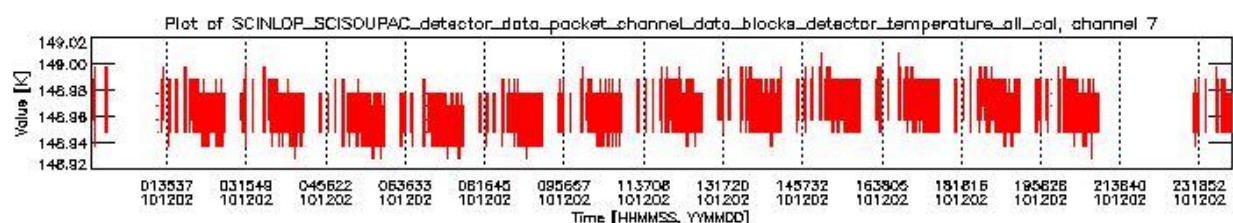
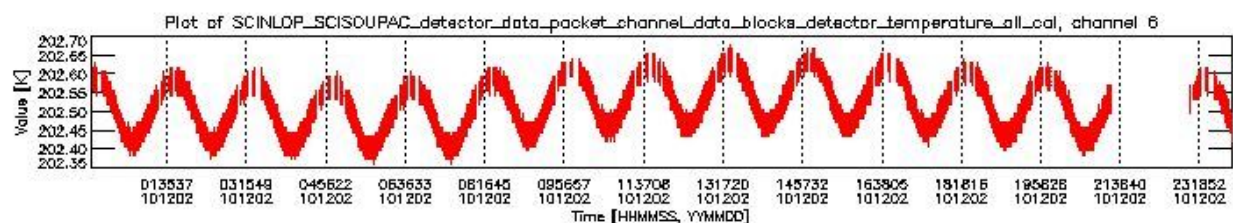
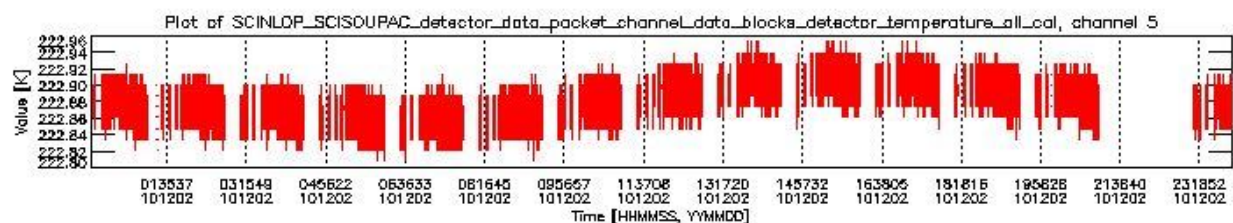
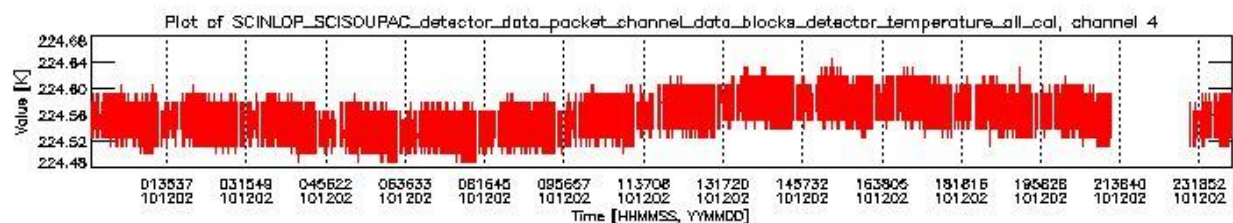
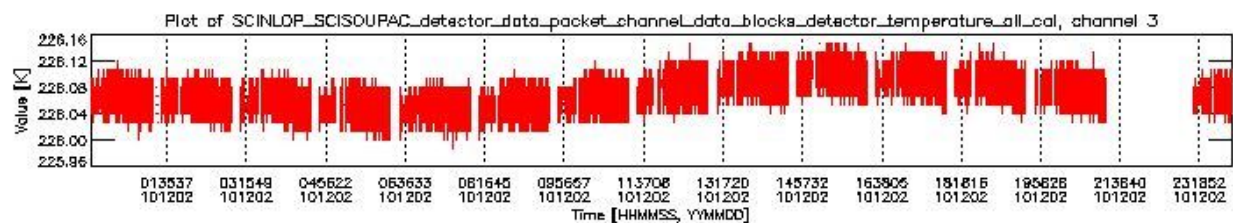
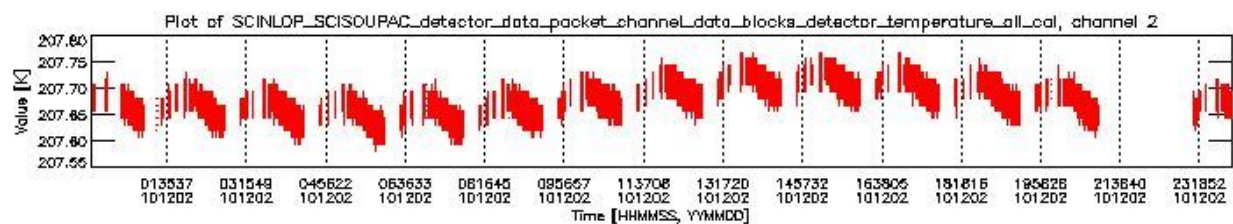
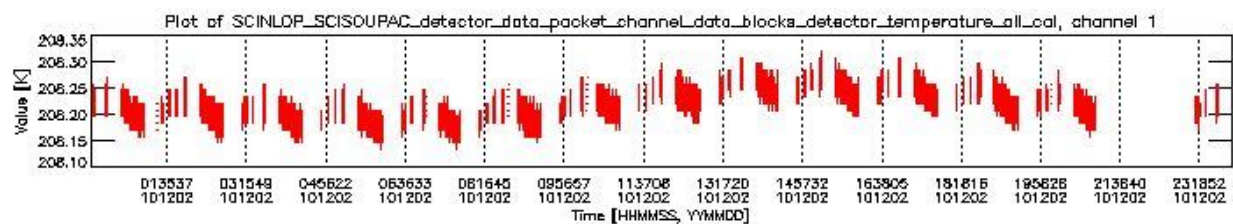
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101202\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101202\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101202\_3.PNG

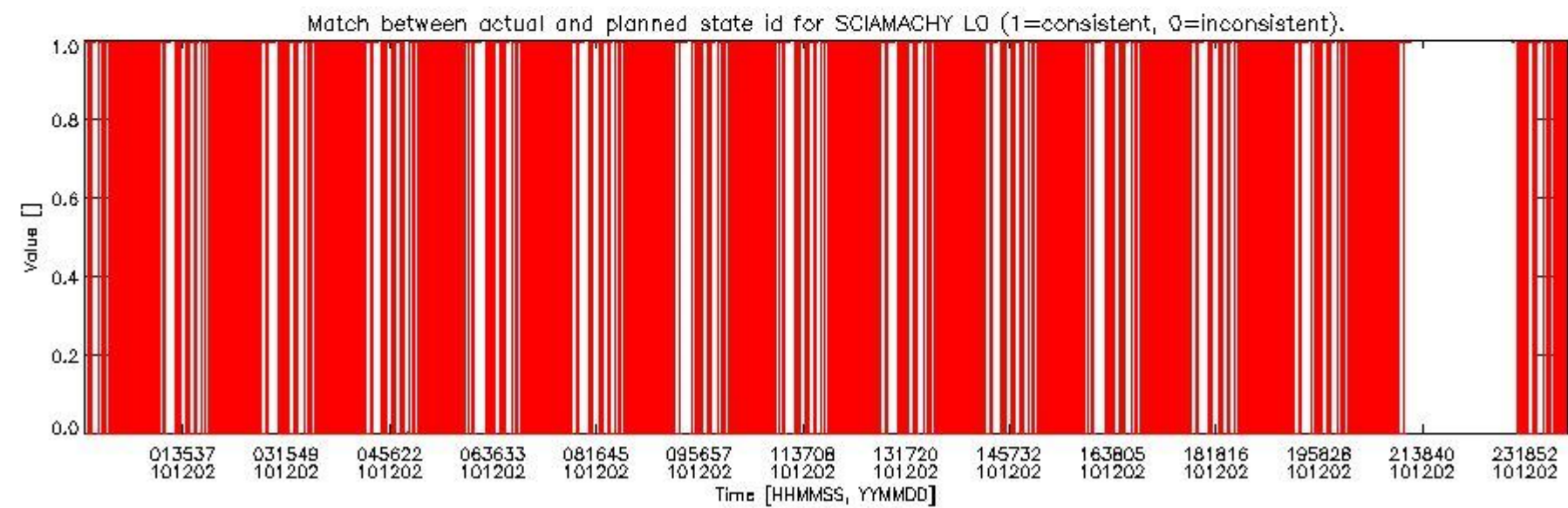
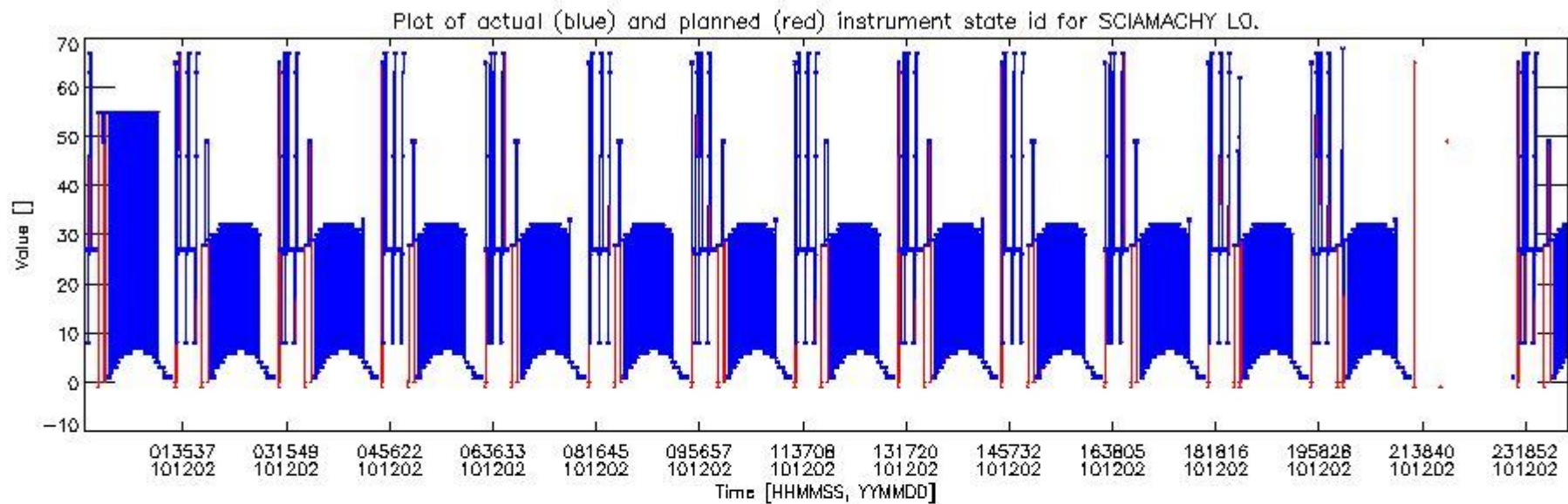


### 0.3 State monitoring

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: **25906**

#	Actual time	Actual value	Planned time	Planned value
0	02DEC2010 00:02:56.673951	8	02DEC2010 00:02:56.673951	27
1	02DEC2010 00:02:57.298951	8	02DEC2010 00:02:57.298951	27
2	02DEC2010 00:02:57.798951	8	02DEC2010 00:02:57.798951	27
3	02DEC2010 00:02:58.298951	8	02DEC2010 00:02:58.298951	27
4	02DEC2010 00:02:58.798951	8	02DEC2010 00:02:58.798951	27
5	02DEC2010 00:02:59.298951	8	02DEC2010 00:02:59.298951	27
6	02DEC2010 00:02:59.798951	8	02DEC2010 00:02:59.798951	27
7	02DEC2010 00:03:00.298951	8	02DEC2010 00:03:00.298951	27
8	02DEC2010 00:03:00.798951	8	02DEC2010 00:03:00.798951	27
9	02DEC2010 00:03:01.298951	8	02DEC2010 00:03:01.298951	27
10	02DEC2010 00:03:01.673951	8	02DEC2010 00:03:01.673951	27
11	02DEC2010 00:03:01.798951	8	02DEC2010 00:03:01.798951	27
12	02DEC2010 00:03:02.298951	8	02DEC2010 00:03:02.298951	27
13	02DEC2010 00:03:02.798951	8	02DEC2010 00:03:02.798951	27
14	02DEC2010 00:03:40.232551	26	02DEC2010 00:03:40.232551	8
15	02DEC2010 00:03:40.857551	26	02DEC2010 00:03:40.857551	8
16	02DEC2010 00:03:41.357551	26	02DEC2010 00:03:41.357551	8
17	02DEC2010 00:03:41.857551	26	02DEC2010 00:03:41.857551	8
18	02DEC2010 00:03:42.357551	26	02DEC2010 00:03:42.357551	8
19	02DEC2010 00:03:42.857551	26	02DEC2010 00:03:42.857551	8
	...	...	...	...

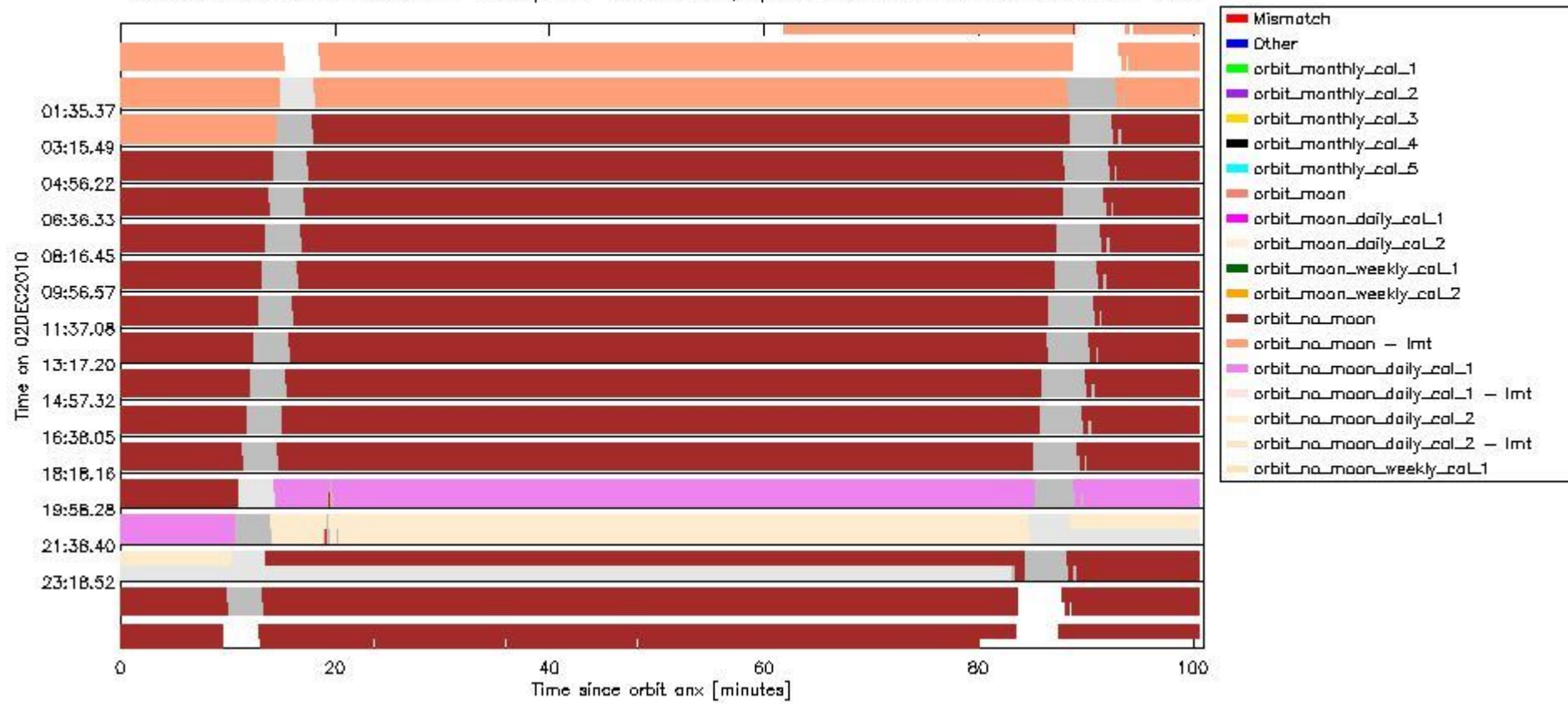


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101202\_5.PNG

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 02DEC2010.  
 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\_20101202\_6.PNG

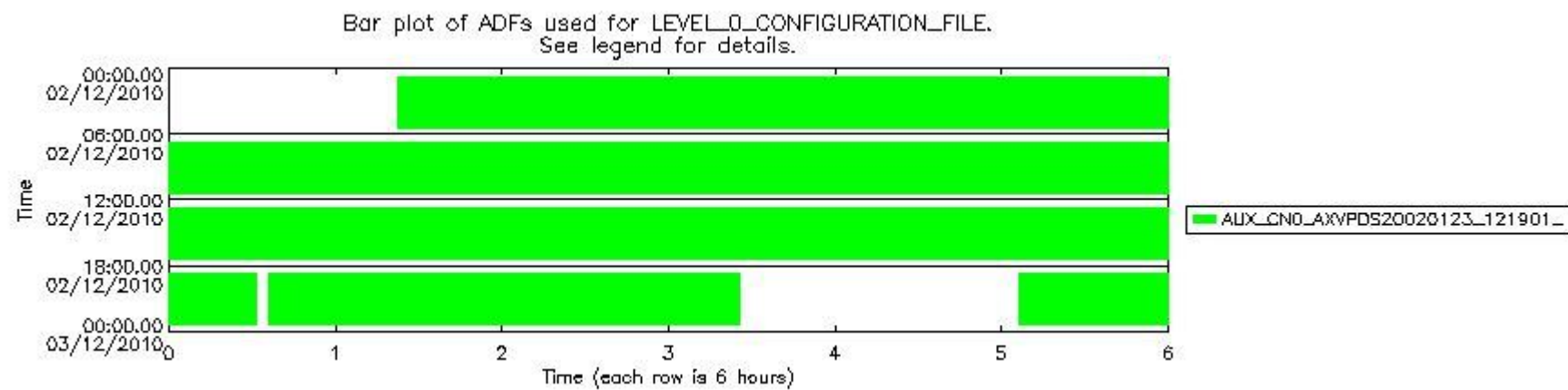
## 0.4 ADF monitoring

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

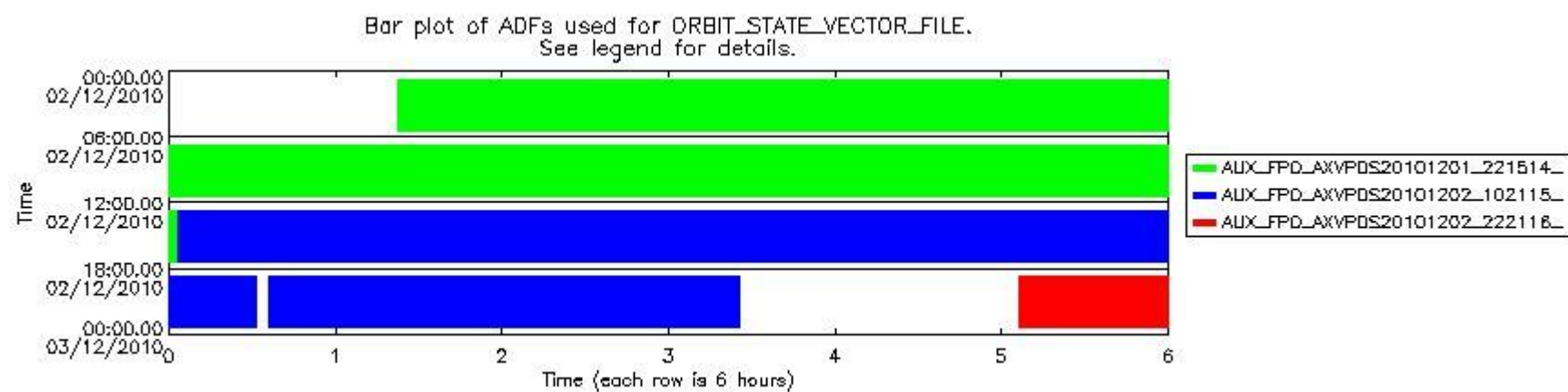
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

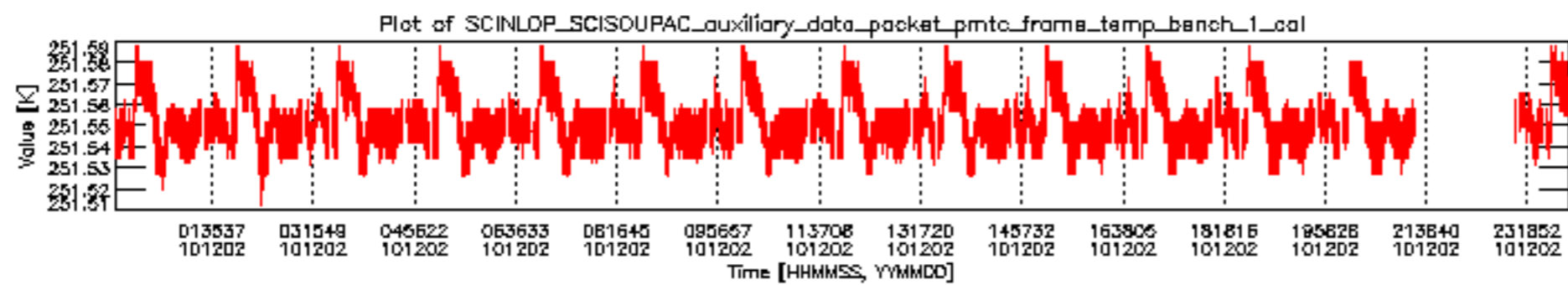
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20101201_221514_20101201_103341_20101211_124735
2	AUX_FPO_AXVPDS20101202_102115_20101201_185451_20101211_210845
3	AUX_FPO_AXVPDS20101202_222116_20101202_195822_20101212_203202



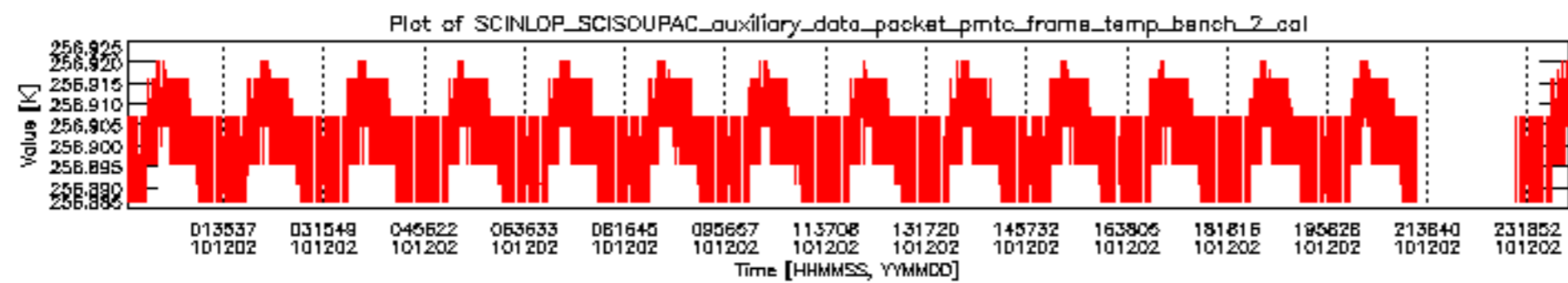
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101202\_7.PNG

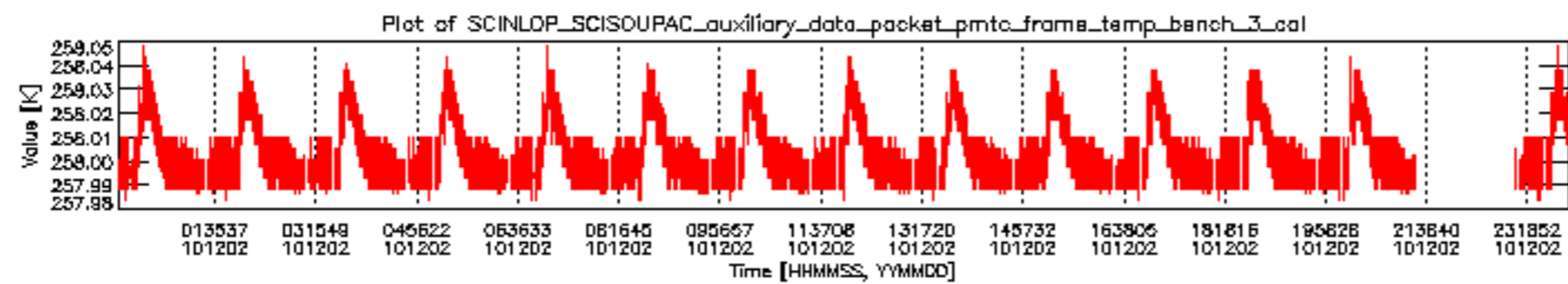


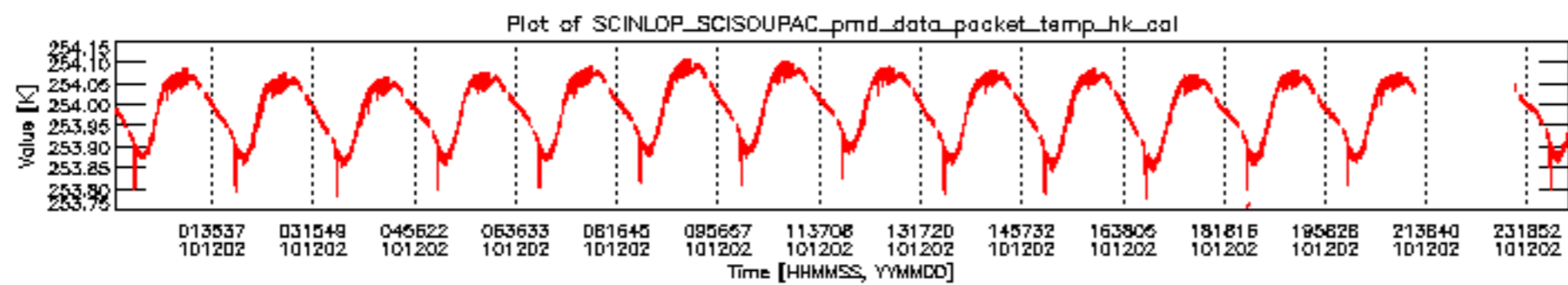
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101202\_8.PNG

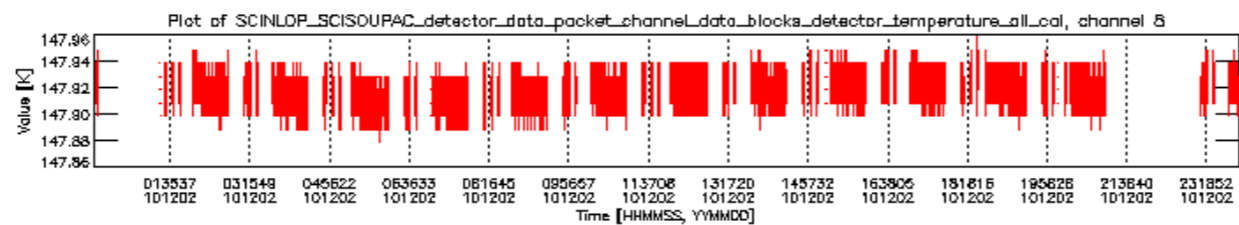
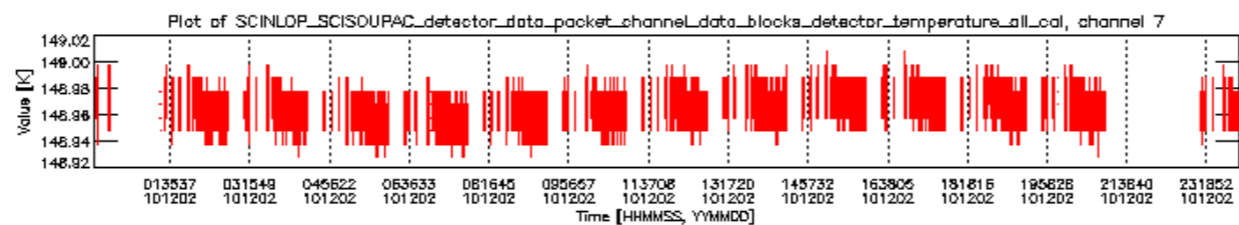
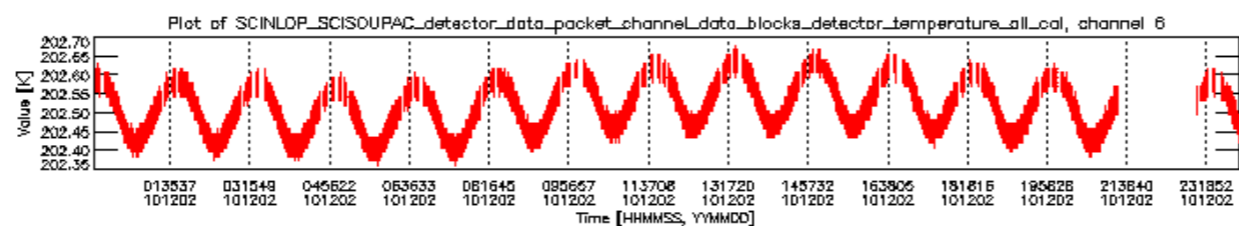
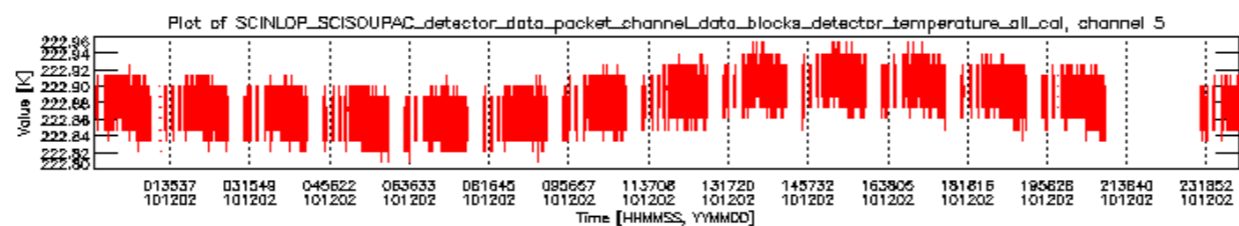
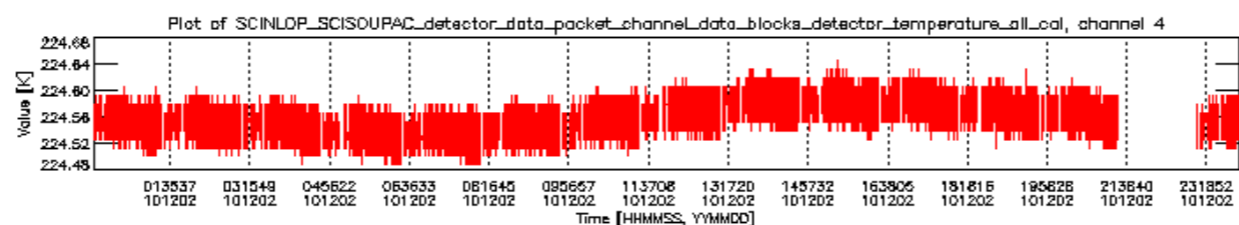
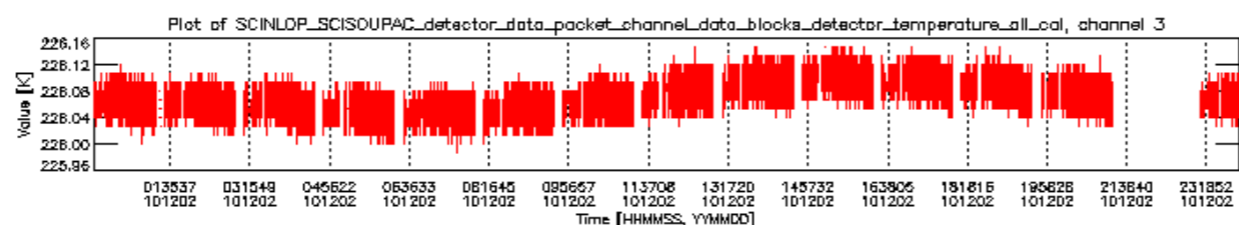
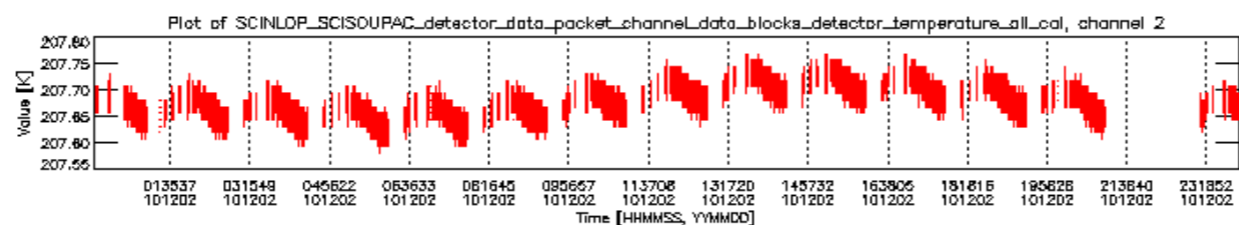
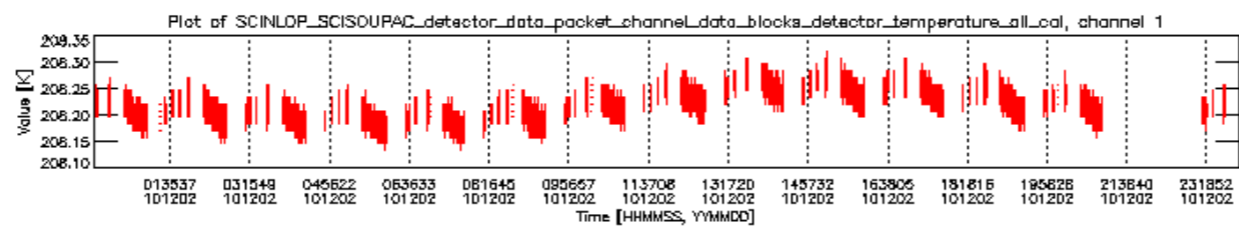


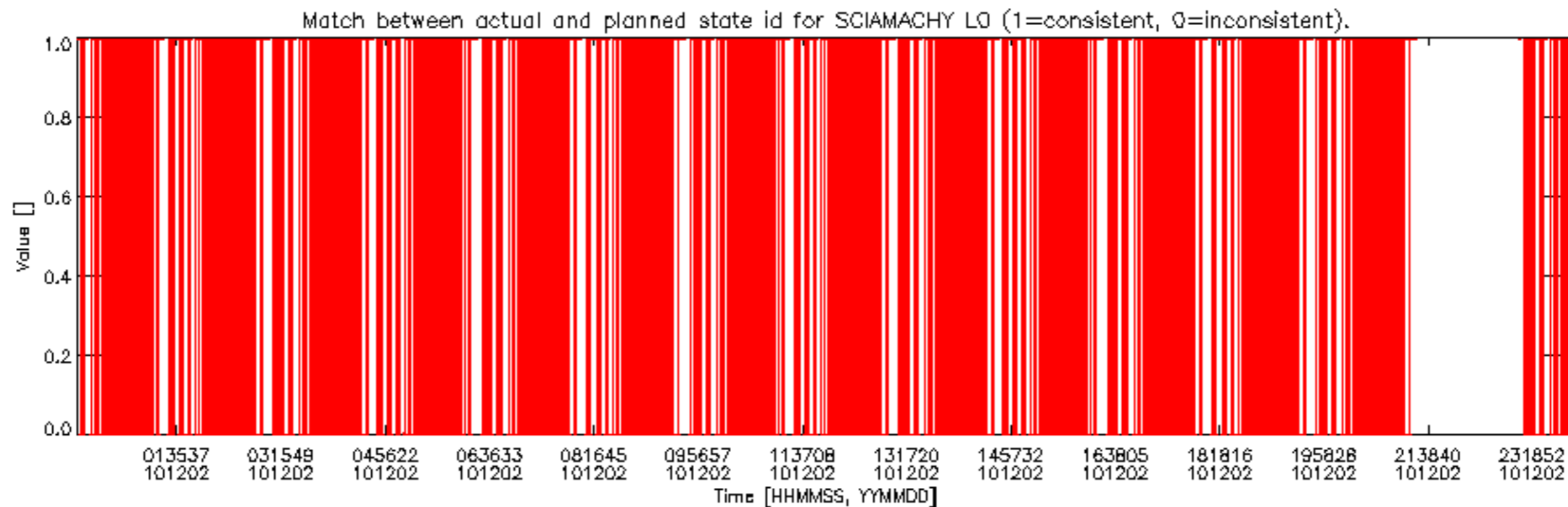
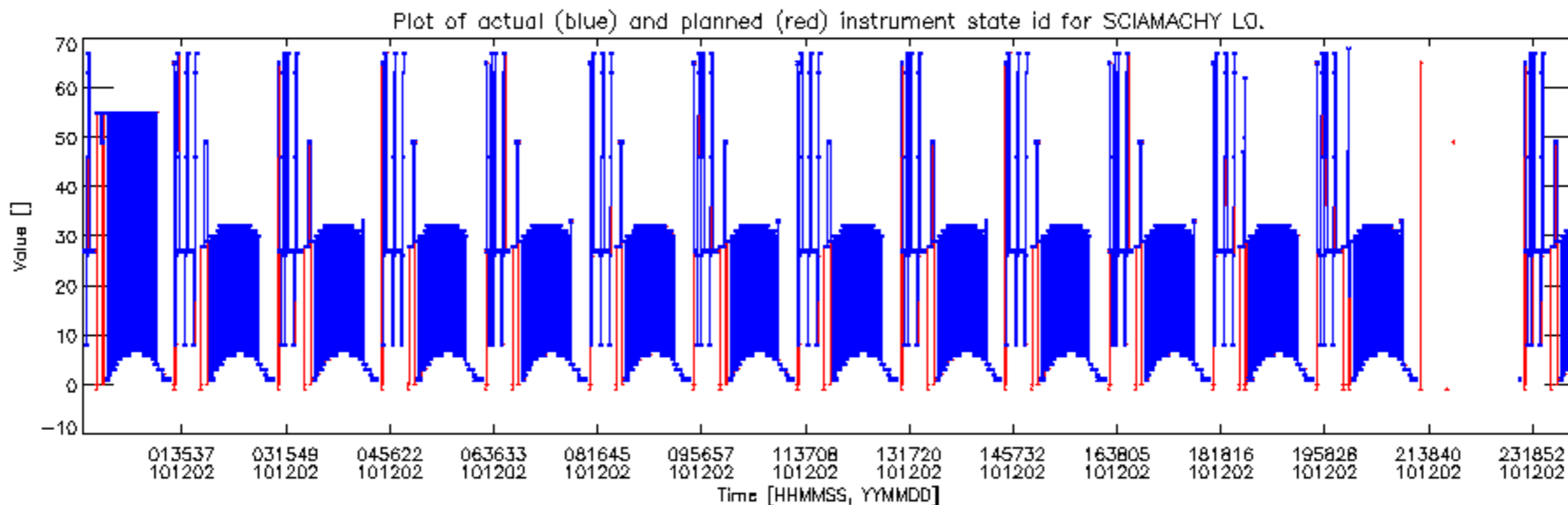




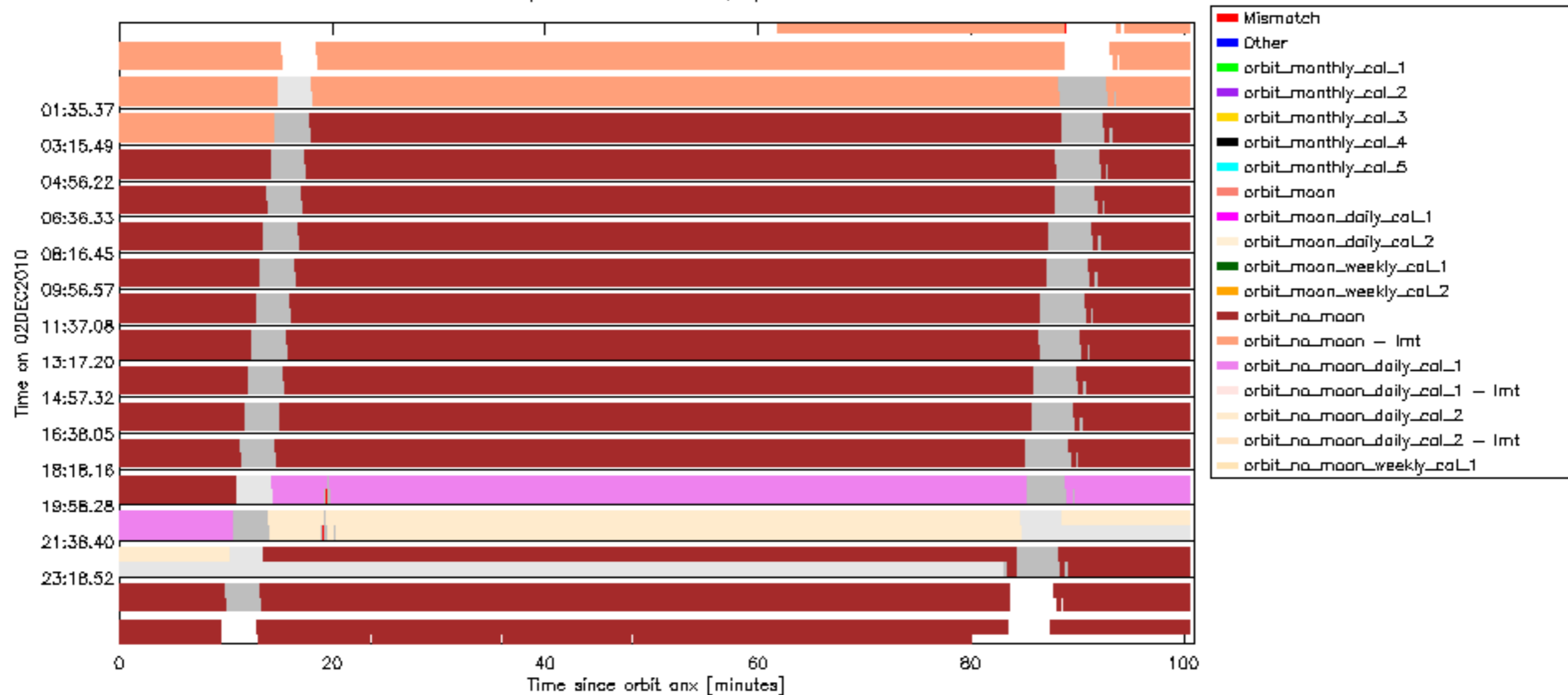


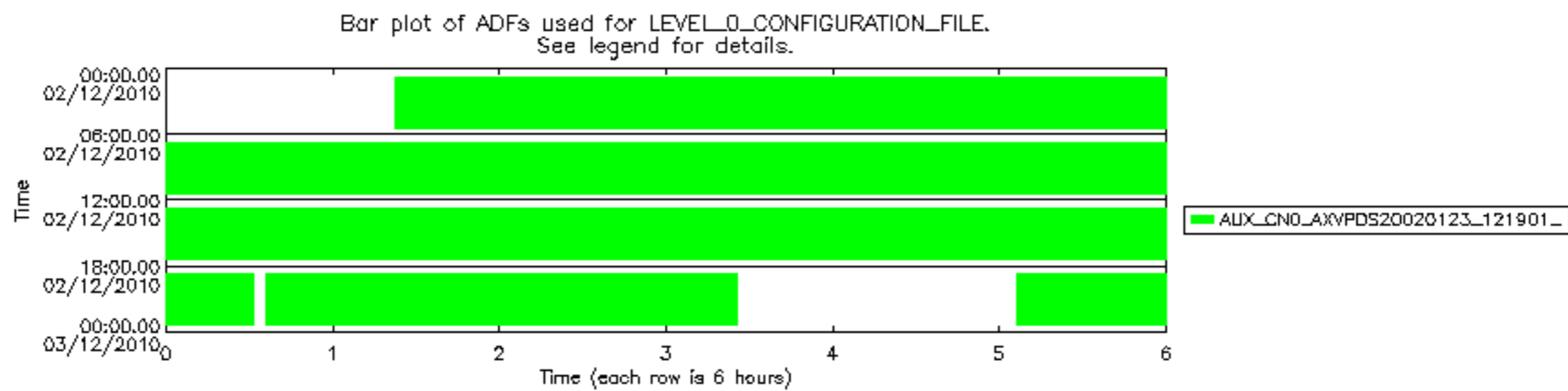






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 02DEC2010.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

