

## 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	06DEC2010 03:08:00
Data source version	KSPT_L0/4504-N
Processing scope for products	29NOV2010 00:00:00 to 30NOV2010 00:00:00
Start time of first product within scope	29NOV2010 01:30:27
Stop time of last product within scope	30NOV2010 00:56:04
Total number of Level 0 products	15
Number of Level 0 products with errors	0

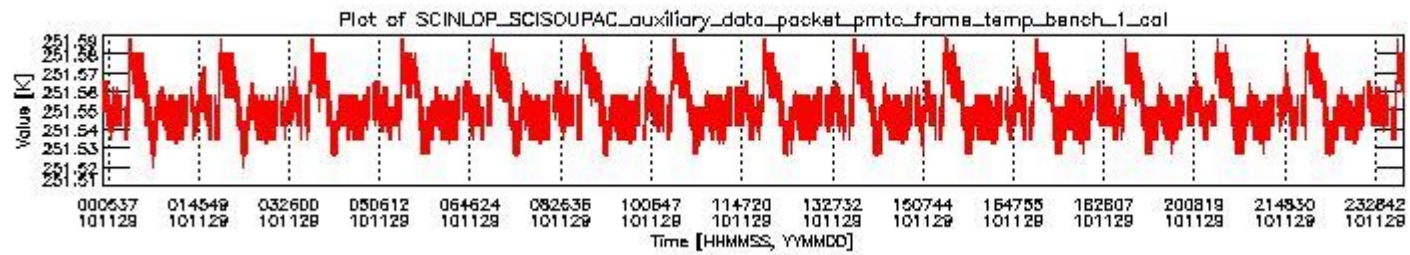
### 0.1.2 Summary per product

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

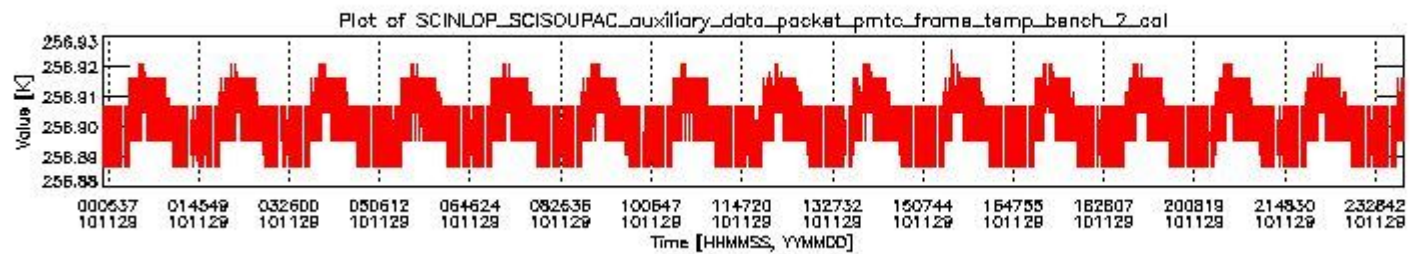
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20101129_013027_000044693097_00031_45735_2030.N1	29NOV2010 01:30:27	29NOV2010 02:44:57	0	0	0	0	0
1	SCI_NL__OPNPDE20101129_024348_000062063097_00032_45736_2031.N1	29NOV2010 02:43:48	29NOV2010 04:27:14	0	0	0	0	0
2	SCI_NL__OPNPDE20101129_042620_000060693097_00033_45737_2032.N1	29NOV2010 04:26:20	29NOV2010 06:07:28	0	0	0	0	0
3	SCI_NL__OPNPDK20101129_060728_000040503097_00034_45738_3089.N1	29NOV2010 06:07:28	29NOV2010 07:14:58	0	0	0	0	0
4	SCI_NL__OPNPDK20101129_071404_000061233097_00035_45739_3090.N1	29NOV2010 07:14:04	29NOV2010 08:56:07	0	0	0	0	0
5	SCI_NL__OPNPDK20101129_085513_000058913097_00036_45740_3091.N1	29NOV2010 08:55:13	29NOV2010 10:33:24	0	0	0	0	0
6	SCI_NL__OPNPDK20101129_103324_000059603097_00037_45741_3092.N1	29NOV2010 10:33:24	29NOV2010 12:12:44	0	0	0	0	0
7	SCI_NL__OPNPDK20101129_121150_000060143097_00038_45742_3093.N1	29NOV2010 12:11:50	29NOV2010 13:52:04	0	0	0	0	0
8	SCI_NL__OPNPDK20101129_135110_000058763097_00039_45743_3094.N1	29NOV2010 13:51:10	29NOV2010 15:29:06	0	0	0	0	0
9	SCI_NL__OPNPDK20101129_152906_000059053097_00040_45744_3095.N1	29NOV2010 15:29:06	29NOV2010 17:07:31	0	0	0	0	0
10	SCI_NL__OPNPDK20101129_170637_000057063097_00041_45745_3096.N1	29NOV2010 17:06:37	29NOV2010 18:41:43	0	0	0	0	0
11	SCI_NL__OPNPDK20101129_184557_000057213097_00042_45746_3097.N1	29NOV2010 18:45:57	29NOV2010 20:21:18	0	0	0	0	0
12	SCI_NL__OPNPDE20101129_202611_000041803097_00043_45747_2034.N1	29NOV2010 20:26:11	29NOV2010 21:35:51	0	0	0	0	0
13	SCI_NL__OPNPDE20101129_213443_000060533097_00043_45747_2038.N1	29NOV2010 21:34:43	29NOV2010 23:15:35	0	0	0	0	0
14	SCI_NL__OPNPDE20101129_232102_000057013097_00044_45748_2037.N1	29NOV2010 23:21:02	30NOV2010 00:56:04	0	0	0	0	0

## 0.2 Product Quality Indicators

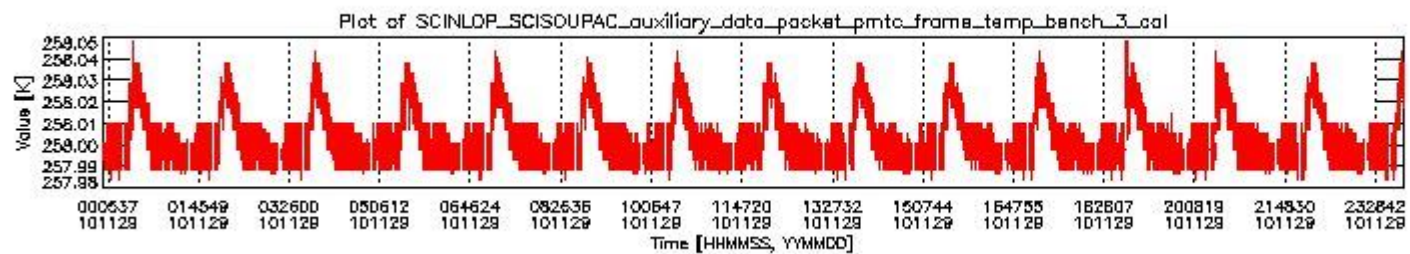
This section shows information about product quality, currently temperatures.



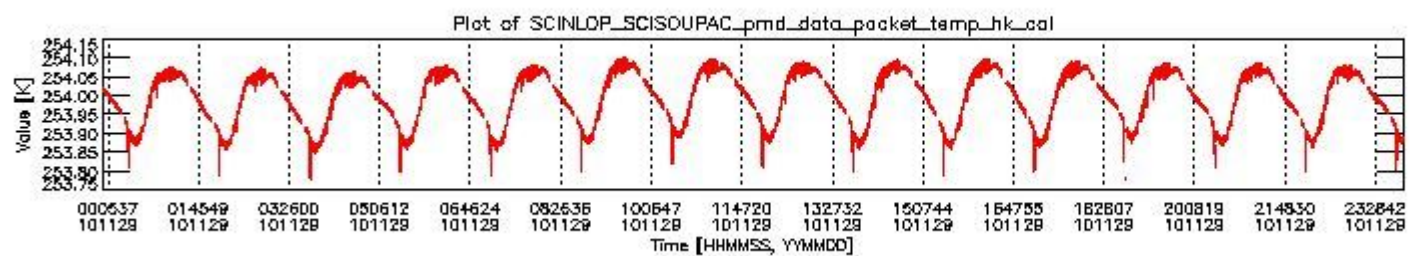
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101129\_0.PNG



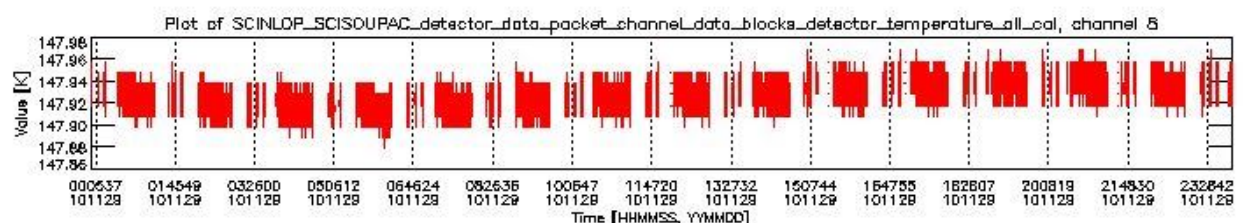
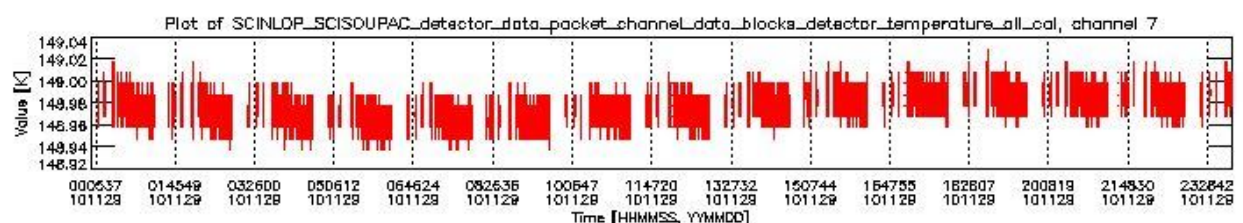
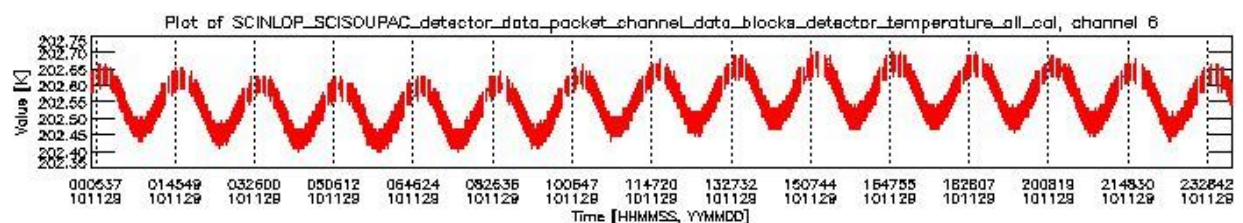
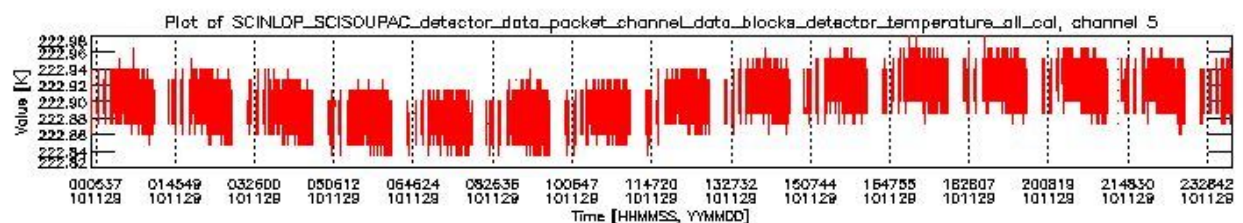
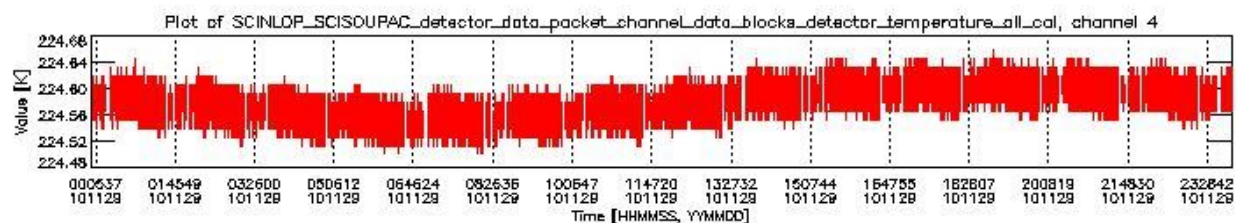
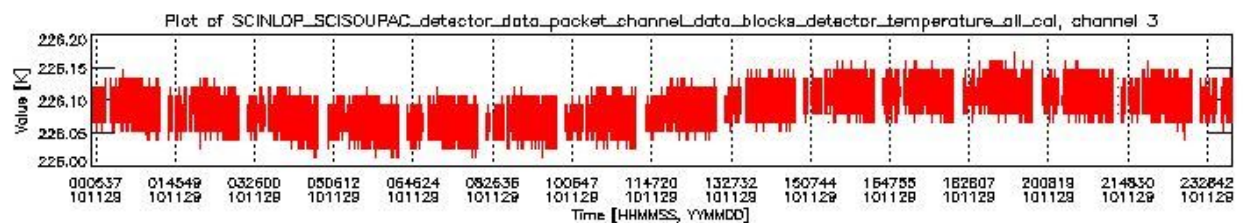
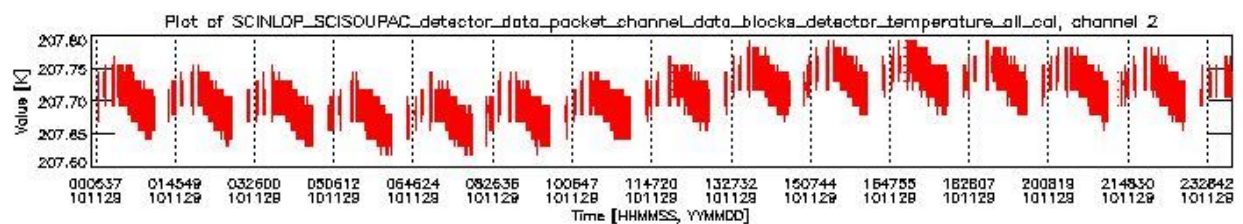
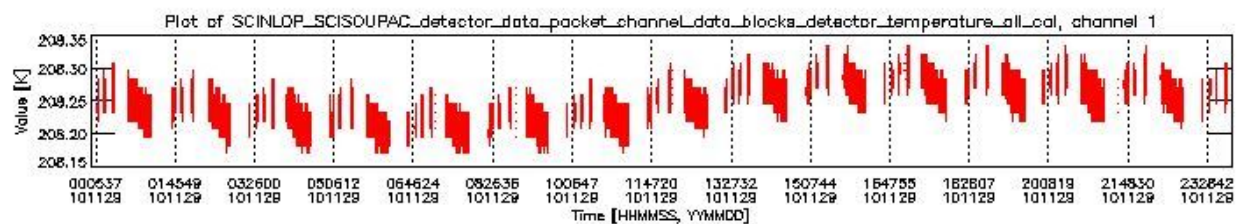
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101129\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101129\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101129\_3.PNG

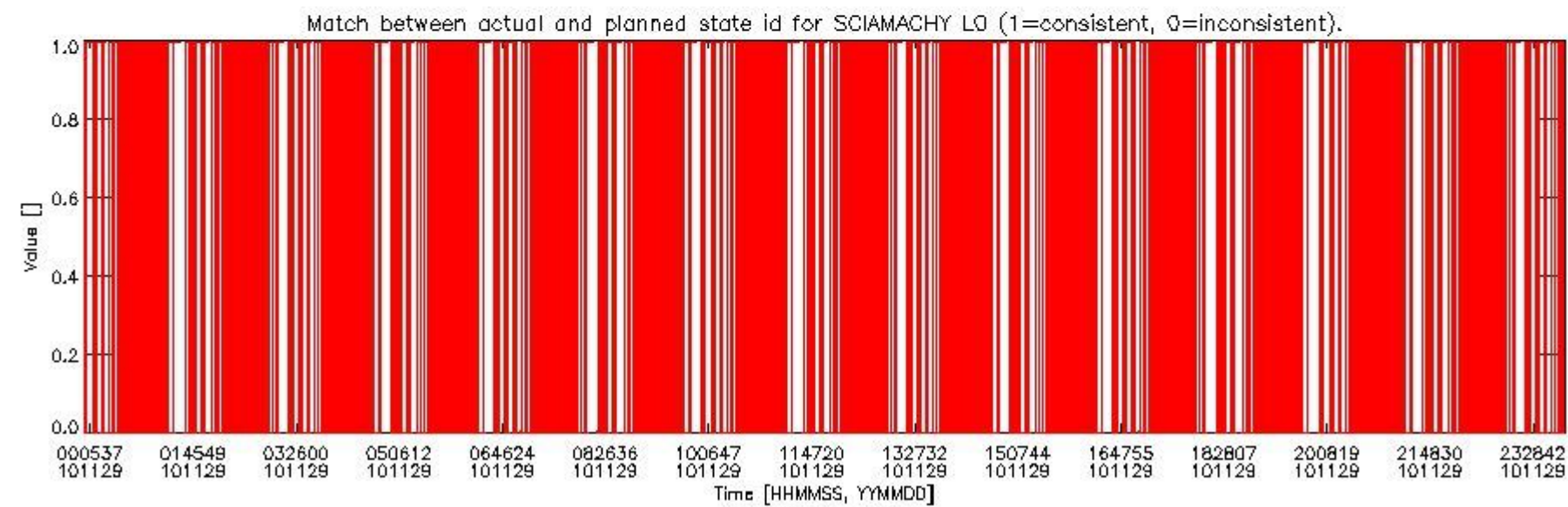
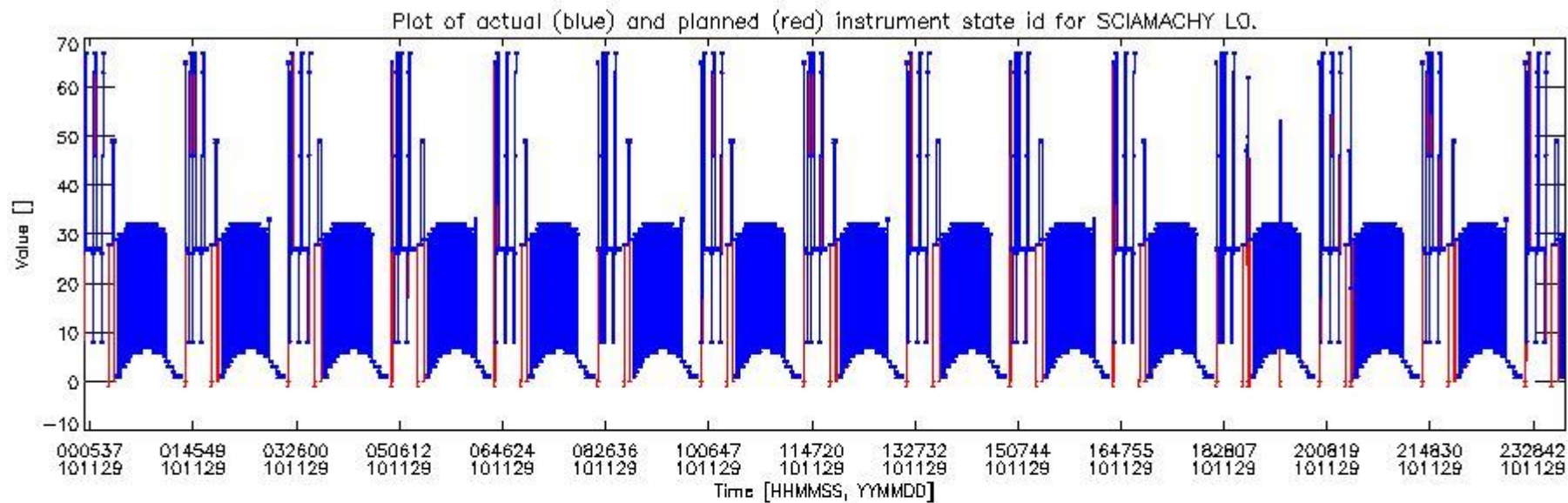


### 0.3 State monitoring

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: **26750**

#	Actual time	Actual value	Planned time	Planned value
0	29NOV2010 00:00:00.258194	63	29NOV2010 00:00:00.258194	46
1	29NOV2010 00:00:00.633194	63	29NOV2010 00:00:00.633194	46
2	29NOV2010 00:00:01.008194	63	29NOV2010 00:00:01.008194	46
3	29NOV2010 00:00:01.383194	63	29NOV2010 00:00:01.383194	46
4	29NOV2010 00:00:01.758194	63	29NOV2010 00:00:01.758194	46
5	29NOV2010 00:00:02.133194	63	29NOV2010 00:00:02.133194	46
6	29NOV2010 00:00:02.508194	63	29NOV2010 00:00:02.508194	46
7	29NOV2010 00:00:02.883194	63	29NOV2010 00:00:02.883194	46
8	29NOV2010 00:00:03.258194	63	29NOV2010 00:00:03.258194	46
9	29NOV2010 00:00:03.633194	63	29NOV2010 00:00:03.633194	46
10	29NOV2010 00:00:30.695698	67	29NOV2010 00:00:30.695698	63
11	29NOV2010 00:00:31.070698	67	29NOV2010 00:00:31.070698	63
12	29NOV2010 00:00:31.320698	67	29NOV2010 00:00:31.320698	63
13	29NOV2010 00:00:31.570698	67	29NOV2010 00:00:31.570698	63
14	29NOV2010 00:00:31.820698	67	29NOV2010 00:00:31.820698	63
15	29NOV2010 00:00:32.070698	67	29NOV2010 00:00:32.070698	63
16	29NOV2010 00:00:32.320698	67	29NOV2010 00:00:32.320698	63
17	29NOV2010 00:00:32.570698	67	29NOV2010 00:00:32.570698	63
18	29NOV2010 00:00:32.820698	67	29NOV2010 00:00:32.820698	63
19	29NOV2010 00:00:33.070698	67	29NOV2010 00:00:33.070698	63
	...	...	...	...

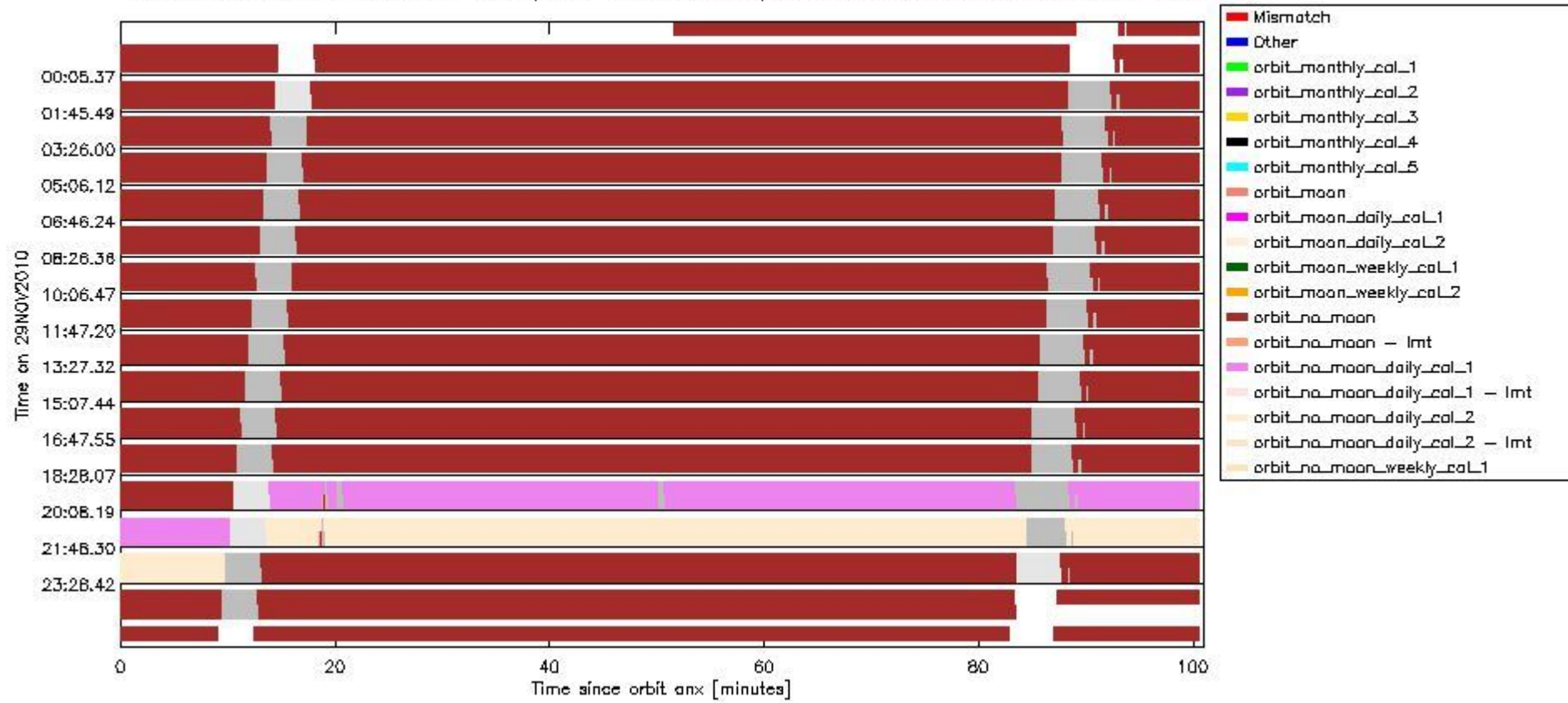


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101129\_5.PNG

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 29NOV2010.  
 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\_20101129\_6.PNG

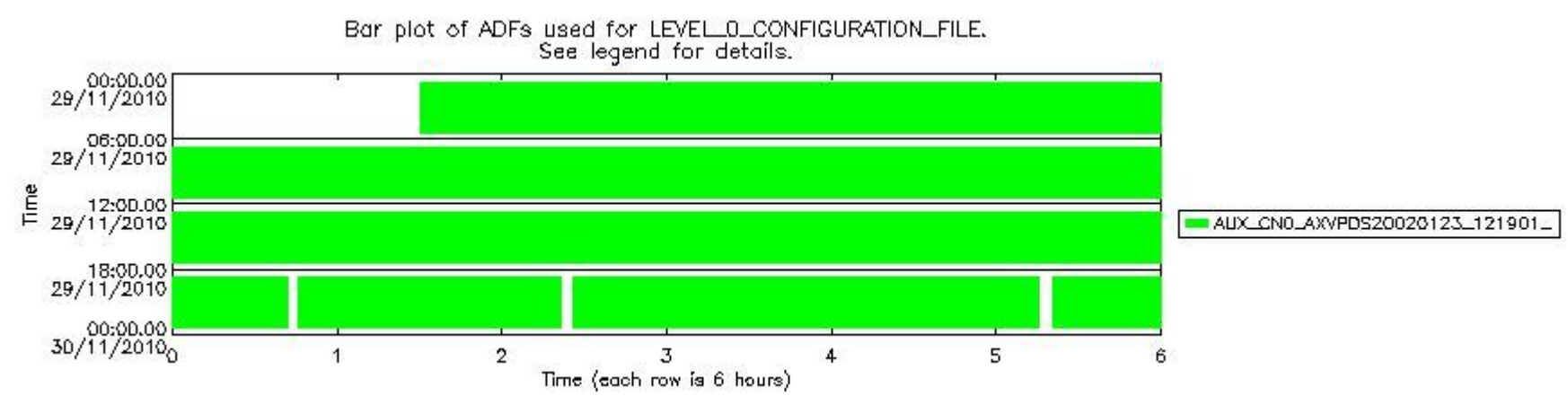
## 0.4 ADF monitoring

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

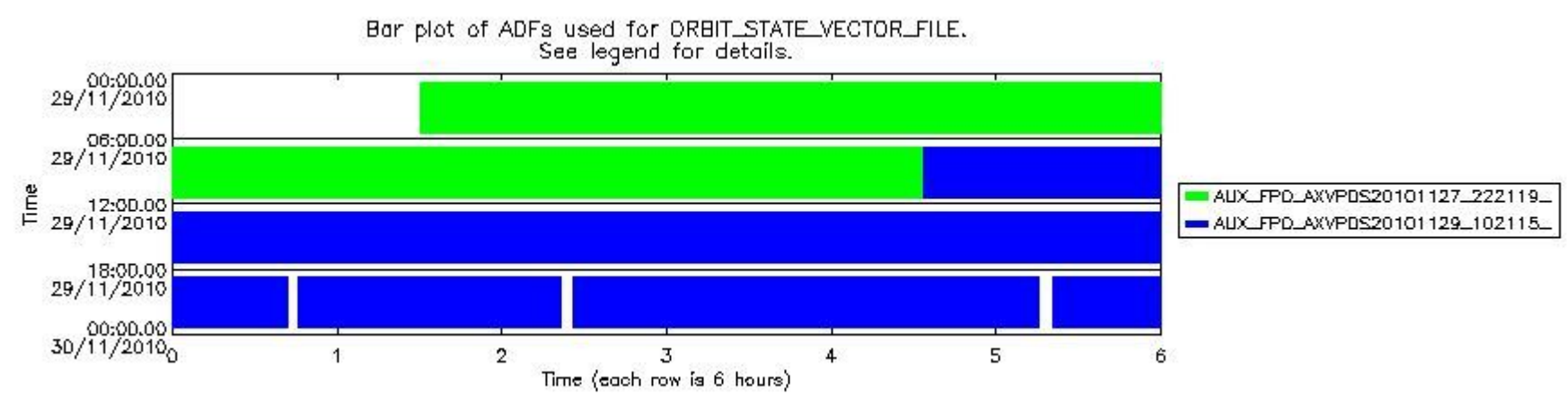
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

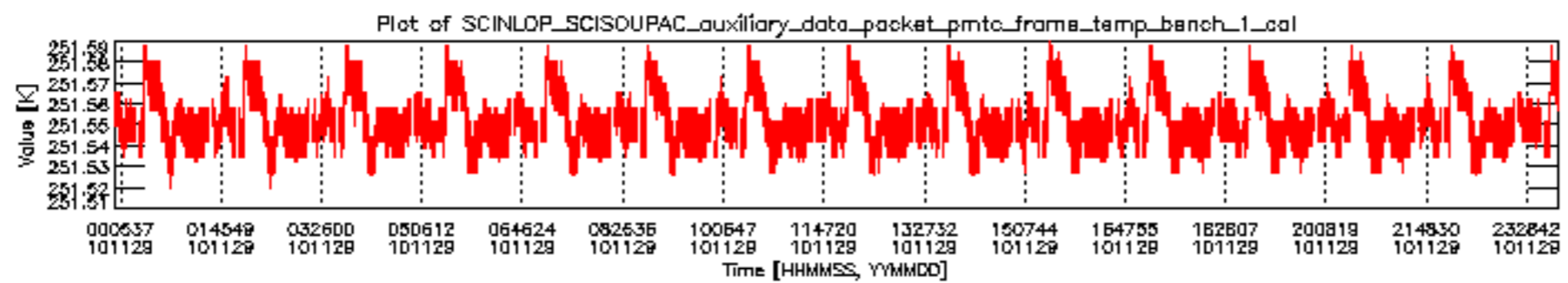
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20101127_222119_20101127_194131_20101207_201512</b>
2	<b>AUX_FPO_AXVPDS20101129_102115_20101128_190448_20101208_211842</b>



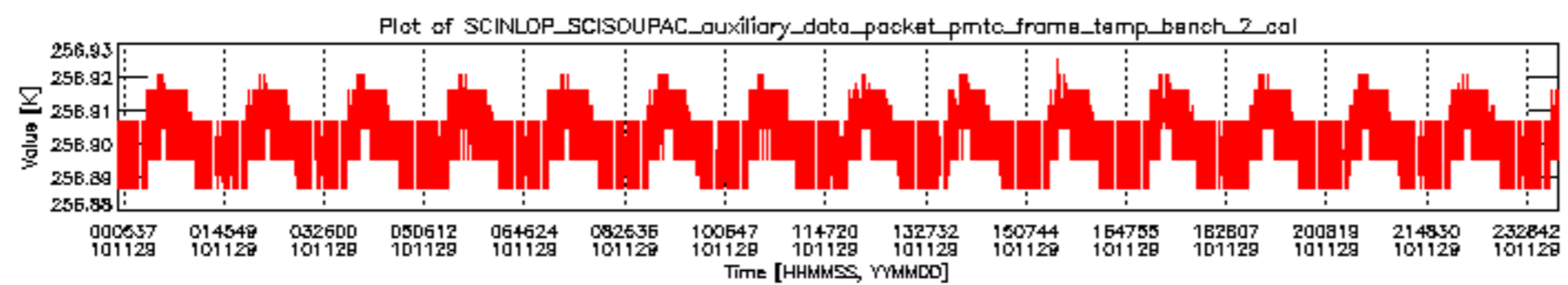
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101129\_7.PNG

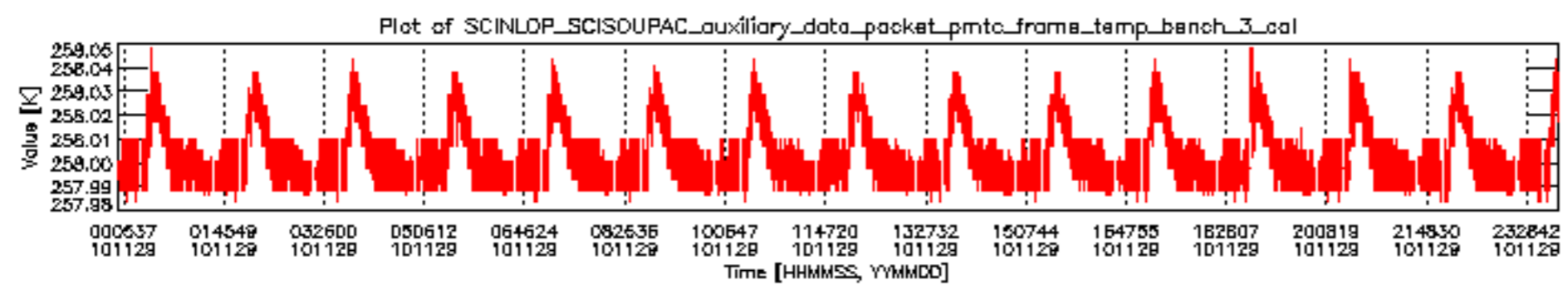


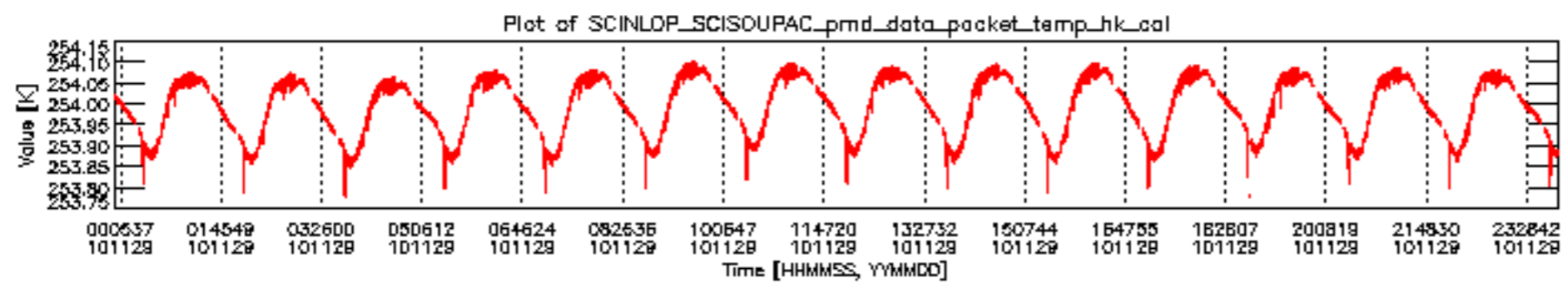
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101129\_8.PNG

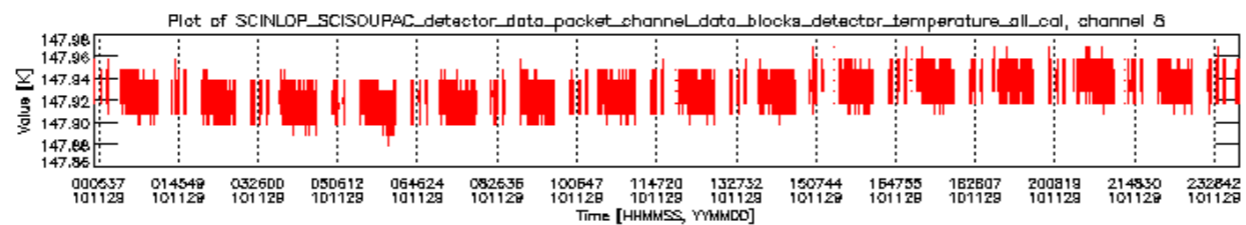
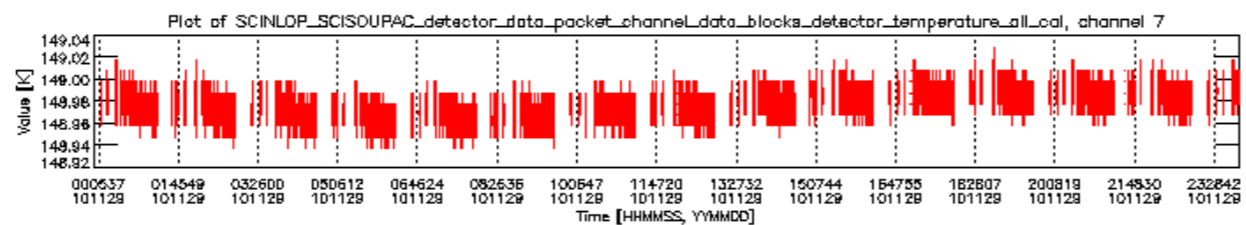
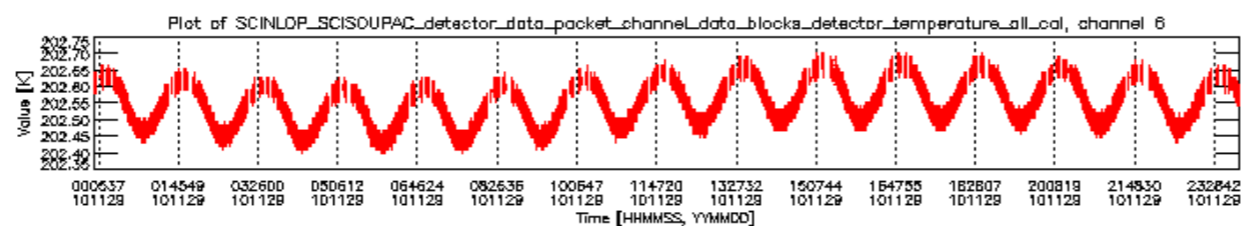
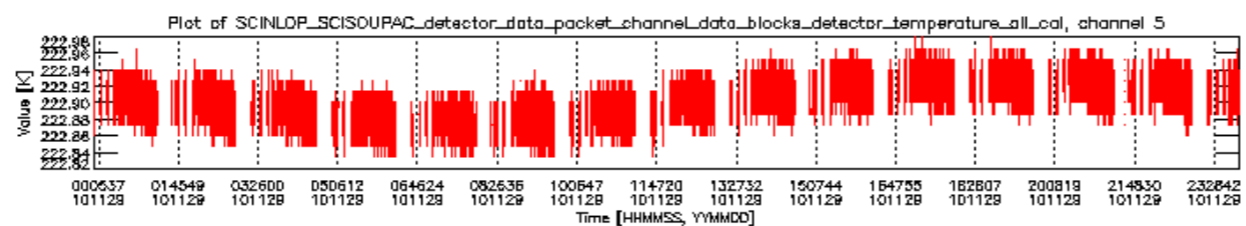
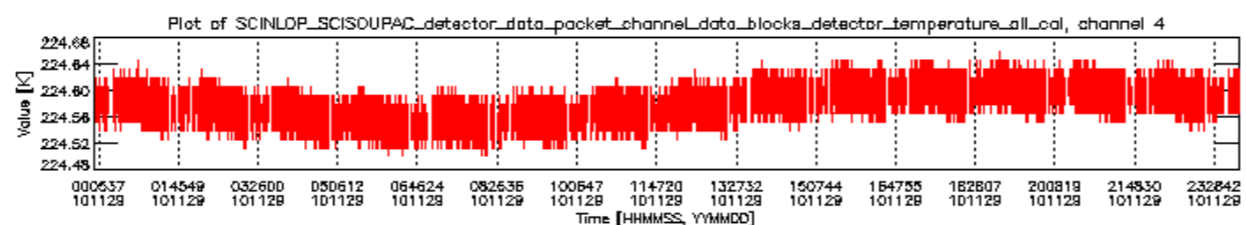
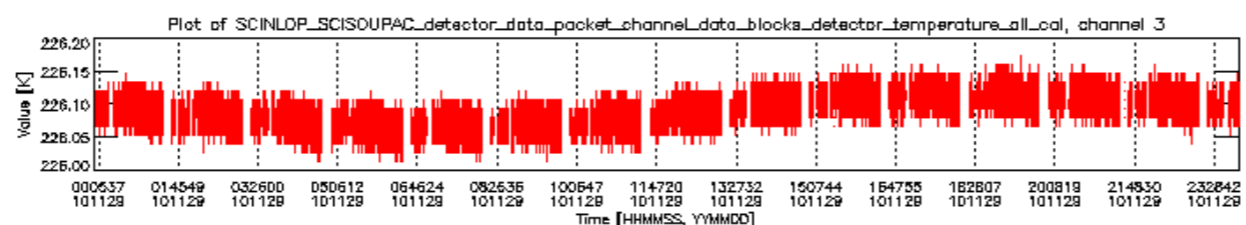
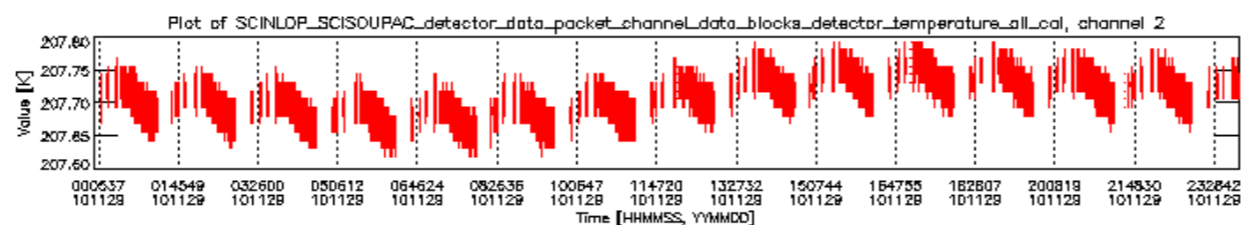
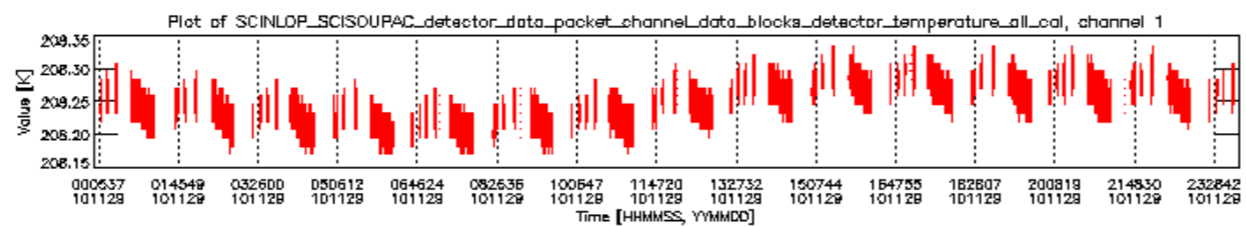






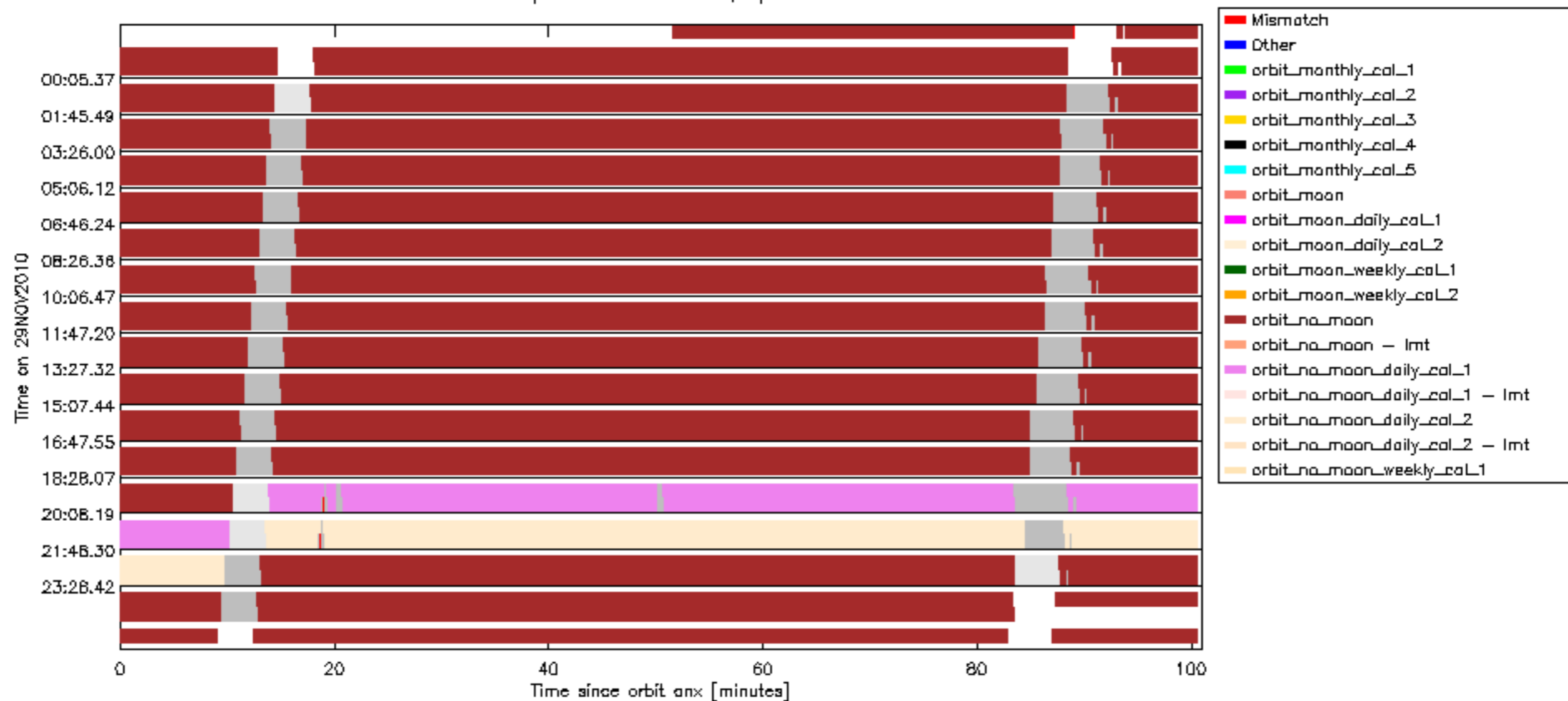


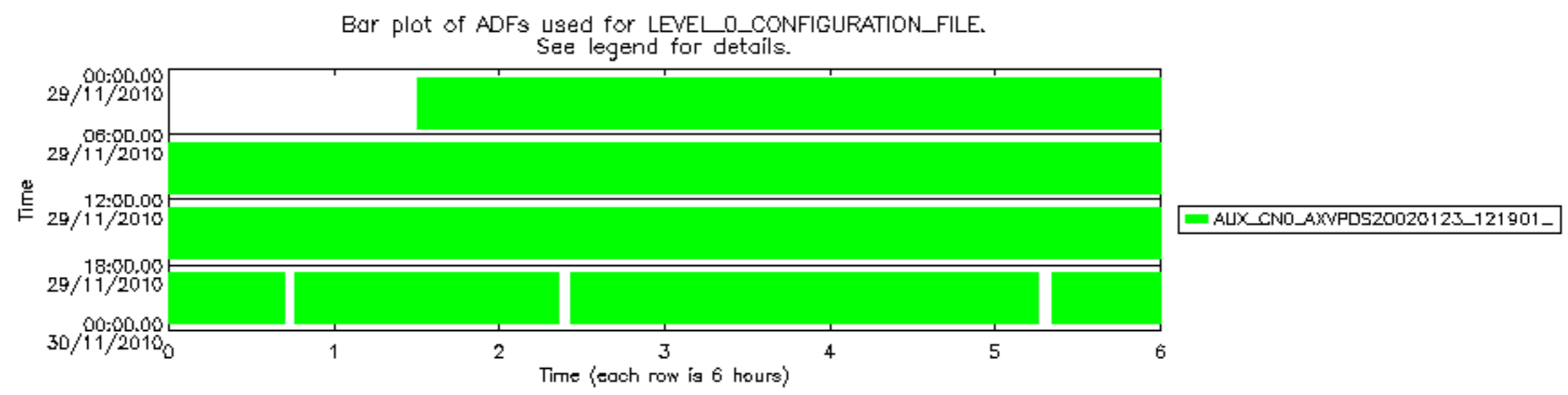






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 29NOV2010.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

