

## 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	v1.3 20060731
Time of report generation	02NOV2007 09:00:52
Data source version	KSPT_L0/4302-N
Processing scope for products	29OCT2007 00:00:00 to 30OCT2007 00:00:00
Start time of first product within scope	28OCT2007 22:20:39
Stop time of last product within scope	29OCT2007 23:22:49
Total number of level 0 products	17
Number of level 0 products with errors	1

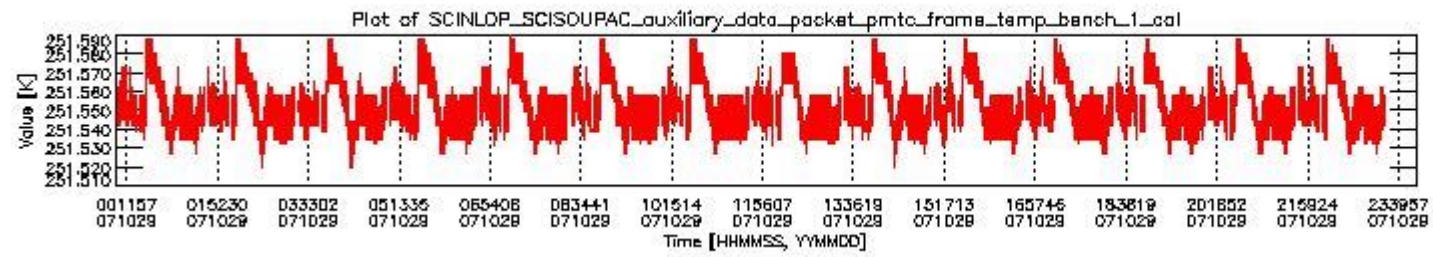
### 0.1.2 Summary per product

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

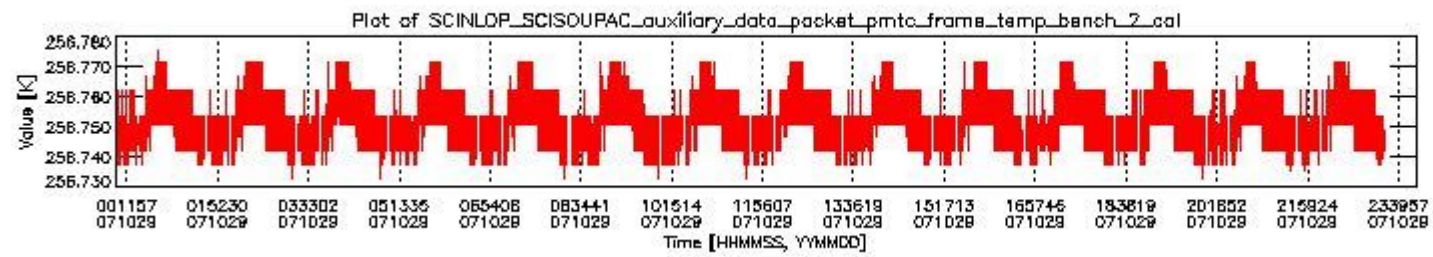
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071028_222039_000060362062_00487_29599_5466.N1	28OCT2007 22:20:39	29OCT2007 00:01:16	0	0	0	0	0
1	SCI_NL__OPNPDE20071029_000116_000056772062_00488_29600_5467.N1	29OCT2007 00:01:16	29OCT2007 01:35:52	0	0	0	0	0
2	SCI_NL__OPNPDE20071029_013552_000045482062_00489_29601_5468.N1	29OCT2007 01:35:52	29OCT2007 02:51:41	0	0	0	0	0
3	SCI_NL__OPNPDE20071029_025141_000061612062_00490_29602_5469.N1	29OCT2007 02:51:41	29OCT2007 04:34:21	0	0	0	0	0
4	SCI_NL__OPNPDE20071029_043313_000061052062_00491_29603_5470.N1	29OCT2007 04:33:13	29OCT2007 06:14:58	0	0	0	0	0
5	SCI_NL__OPNPDK20071029_061402_000040332062_00492_29604_6481.N1	29OCT2007 06:14:02	29OCT2007 07:21:15	0	0	0	0	0
6	SCI_NL__OPNPDK20071029_072019_000062292062_00493_29605_6482.N1	29OCT2007 07:20:19	29OCT2007 09:04:08	0	0	0	0	0
7	SCI_NL__OPNPDK20071029_090300_000060922062_00494_29606_6483.N1	29OCT2007 09:03:00	29OCT2007 10:44:32	1	1	0	0	0
8	SCI_NL__OPNPDK20071029_104228_000060492062_00495_29607_6484.N1	29OCT2007 10:42:28	29OCT2007 12:23:17	0	0	0	0	0
9	SCI_NL__OPNPDK20071029_122208_000059682062_00496_29608_6485.N1	29OCT2007 12:22:08	29OCT2007 14:01:36	0	0	0	0	0
10	SCI_NL__OPNPDK20071029_140040_000059252062_00497_29609_6486.N1	29OCT2007 14:00:40	29OCT2007 15:39:25	0	0	0	0	0
11	SCI_NL__OPNPDK20071029_153829_000058992062_00498_29610_6487.N1	29OCT2007 15:38:29	29OCT2007 17:16:47	0	0	0	0	0
12	SCI_NL__OPNPDK20071029_171550_000059252062_00499_29611_6488.N1	29OCT2007 17:15:50	29OCT2007 18:54:35	0	0	0	0	0
13	SCI_NL__OPNPDK20071029_185339_000060362062_00500_29612_6489.N1	29OCT2007 18:53:39	29OCT2007 20:34:16	0	0	0	0	0
14	SCI_NL__OPNPDE20071029_203416_000041332062_00501_29613_5471.N1	29OCT2007 20:34:16	29OCT2007 21:43:09	0	0	0	0	0
15	SCI_NL__OPNPDK20071029_214908_000012442062_00501_29613_6490.N1	29OCT2007 21:49:08	29OCT2007 22:09:53	0	0	0	0	0
16	SCI_NL__OPNPDE20071029_221452_000040782063_00001_29614_5472.N1	29OCT2007 22:14:52	29OCT2007 23:22:49	0	0	0	0	0

## 0.2 Product Quality Indicators

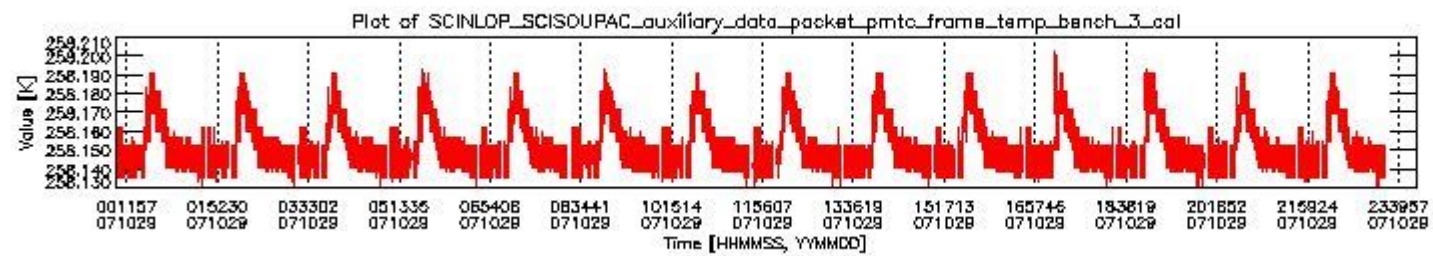
This section shows information about product quality, currently temperatures.



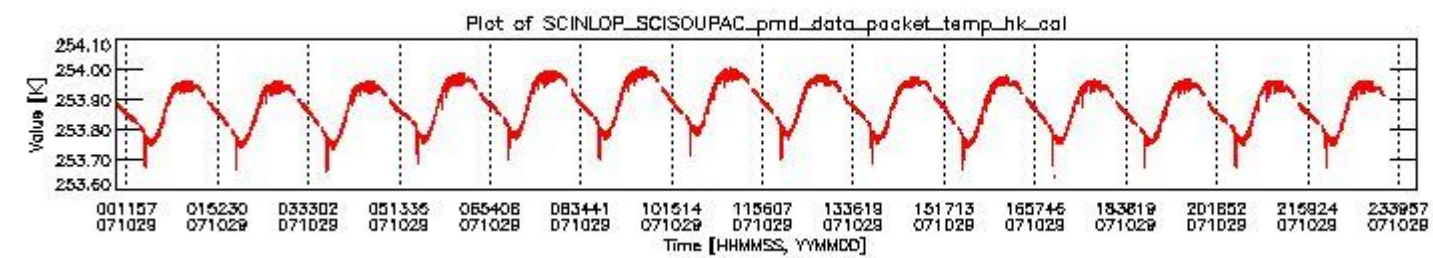
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071029\_0.PNG



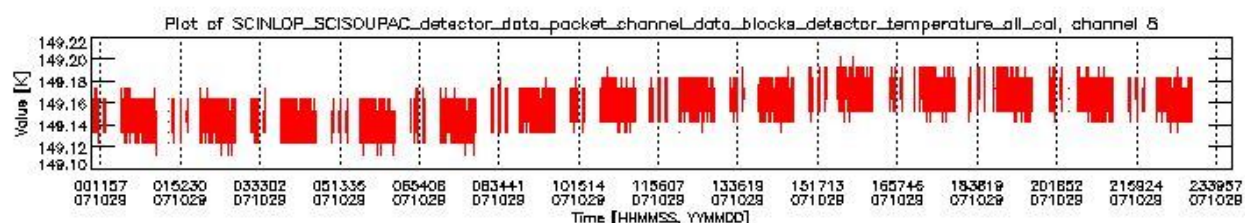
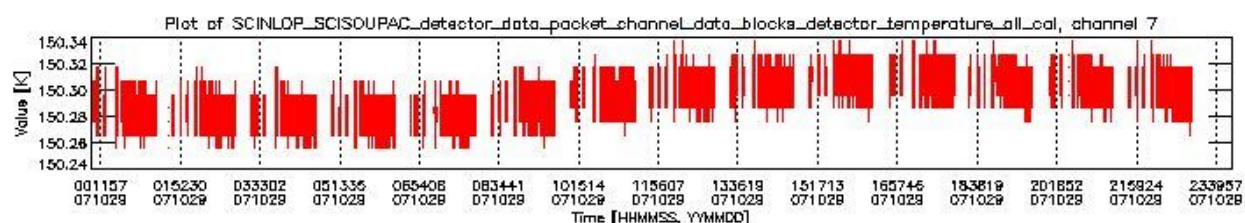
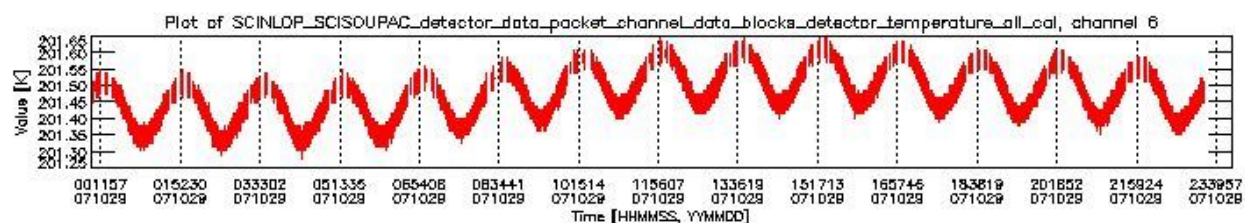
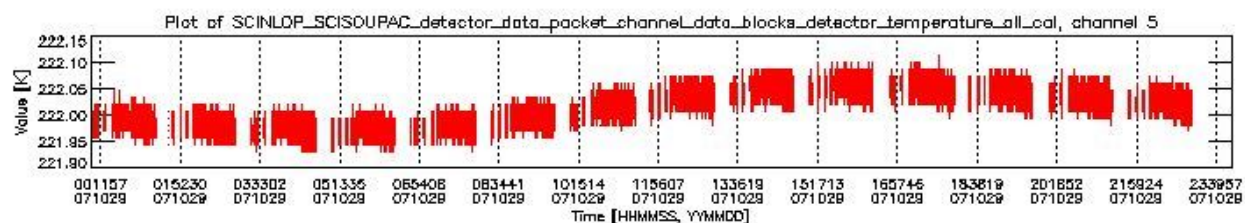
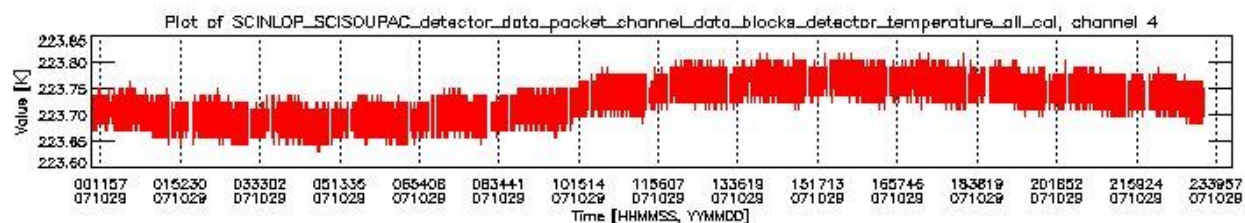
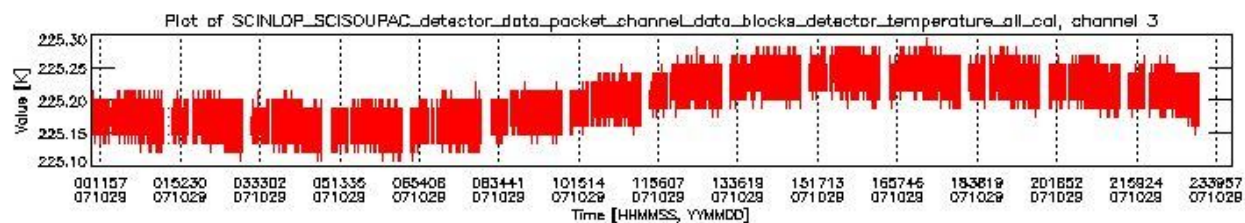
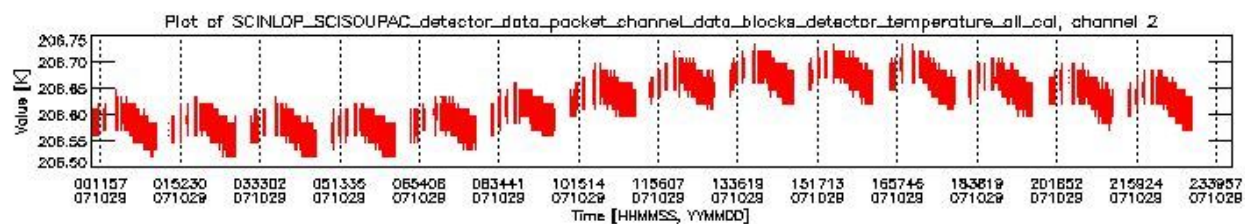
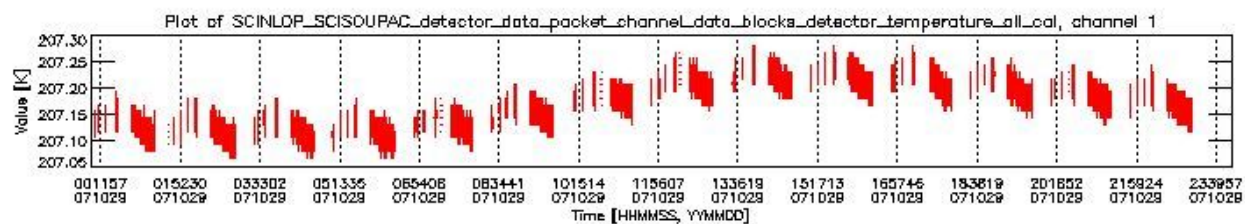
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071029\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071029\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071029\_3.PNG

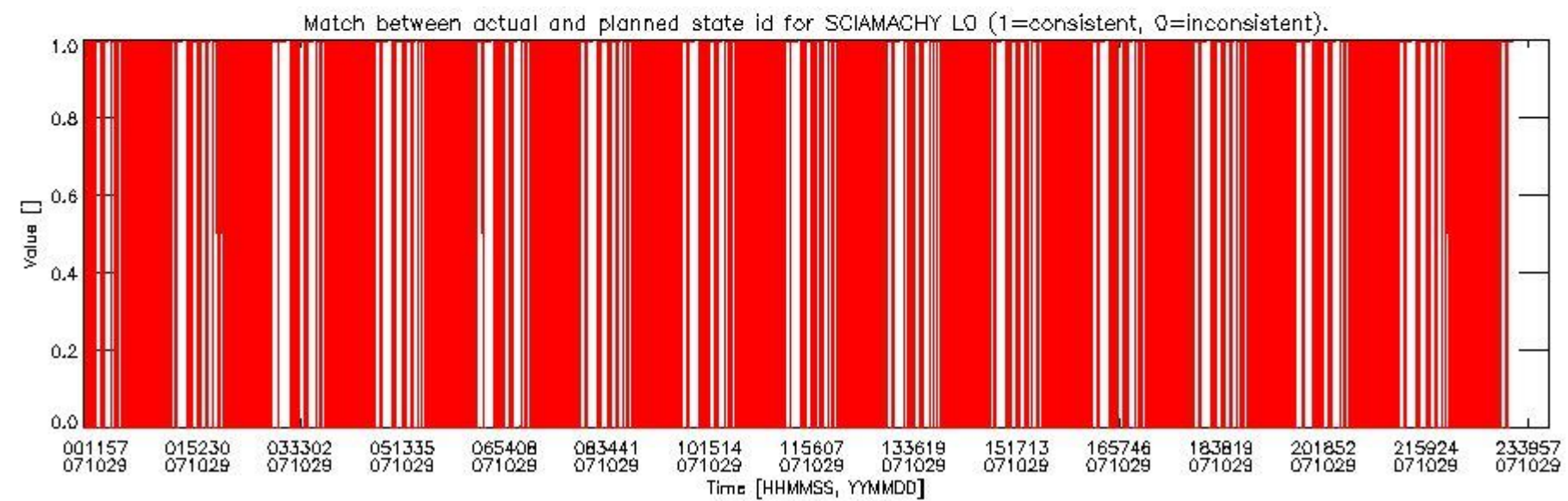
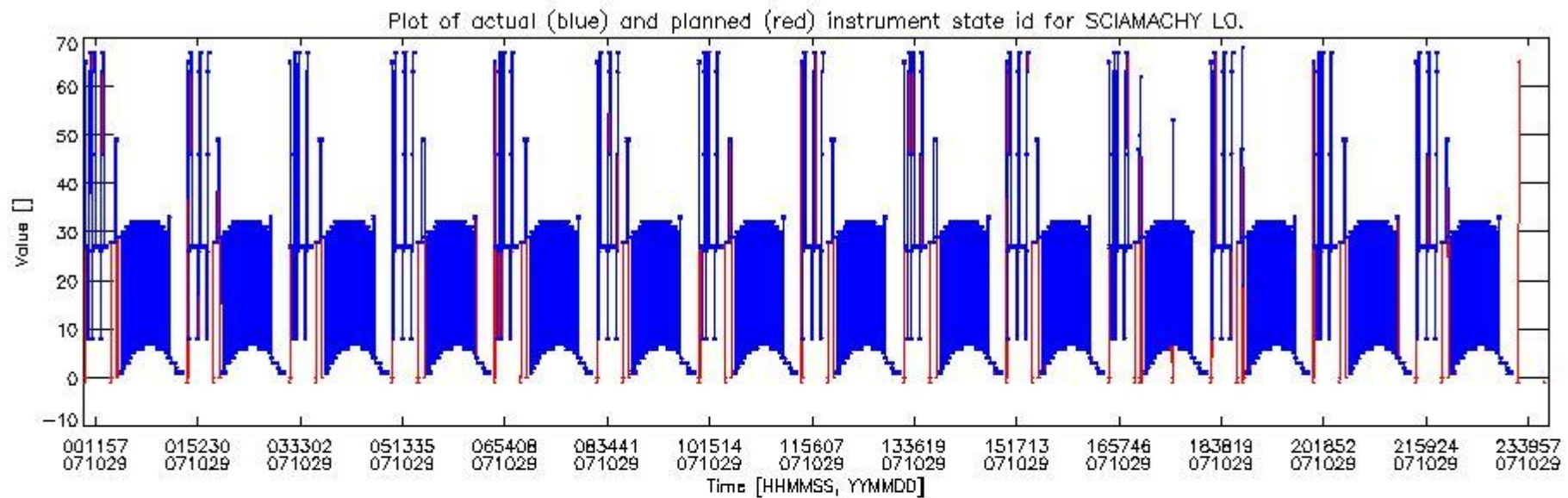


### 0.3 State monitoring

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: **30720**

#	Actual time	Actual value	Planned time	Planned value
0	29OCT2007 00:01:16.018699	65	29OCT2007 00:01:16.018699	0
1	29OCT2007 00:01:16.643680	65	29OCT2007 00:01:16.643680	0
2	29OCT2007 00:01:17.143697	65	29OCT2007 00:01:17.143697	0
3	29OCT2007 00:01:17.643675	65	29OCT2007 00:01:17.643675	0
4	29OCT2007 00:01:18.143692	65	29OCT2007 00:01:18.143692	0
5	29OCT2007 00:01:18.643669	65	29OCT2007 00:01:18.643669	0
6	29OCT2007 00:01:19.143687	65	29OCT2007 00:01:19.143687	0
7	29OCT2007 00:01:19.643704	65	29OCT2007 00:01:19.643704	0
8	29OCT2007 00:01:20.143681	65	29OCT2007 00:01:20.143681	0
9	29OCT2007 00:01:20.643699	65	29OCT2007 00:01:20.643699	0
10	29OCT2007 00:01:59.780400	27	29OCT2007 00:01:59.780400	0
11	29OCT2007 00:02:00.780395	27	29OCT2007 00:02:00.780395	0
12	29OCT2007 00:02:01.717907	27	29OCT2007 00:02:01.717907	0
13	29OCT2007 00:02:02.467893	27	29OCT2007 00:02:02.467893	0
14	29OCT2007 00:02:03.405406	27	29OCT2007 00:02:03.405406	0
15	29OCT2007 00:02:04.155392	27	29OCT2007 00:02:04.155392	0
16	29OCT2007 00:02:04.780414	27	29OCT2007 00:02:04.780414	0
17	29OCT2007 00:02:05.092904	27	29OCT2007 00:02:05.092904	0
18	29OCT2007 00:02:05.842890	27	29OCT2007 00:02:05.842890	0
19	29OCT2007 00:02:06.780403	27	29OCT2007 00:02:06.780403	0
	...	...	...	...

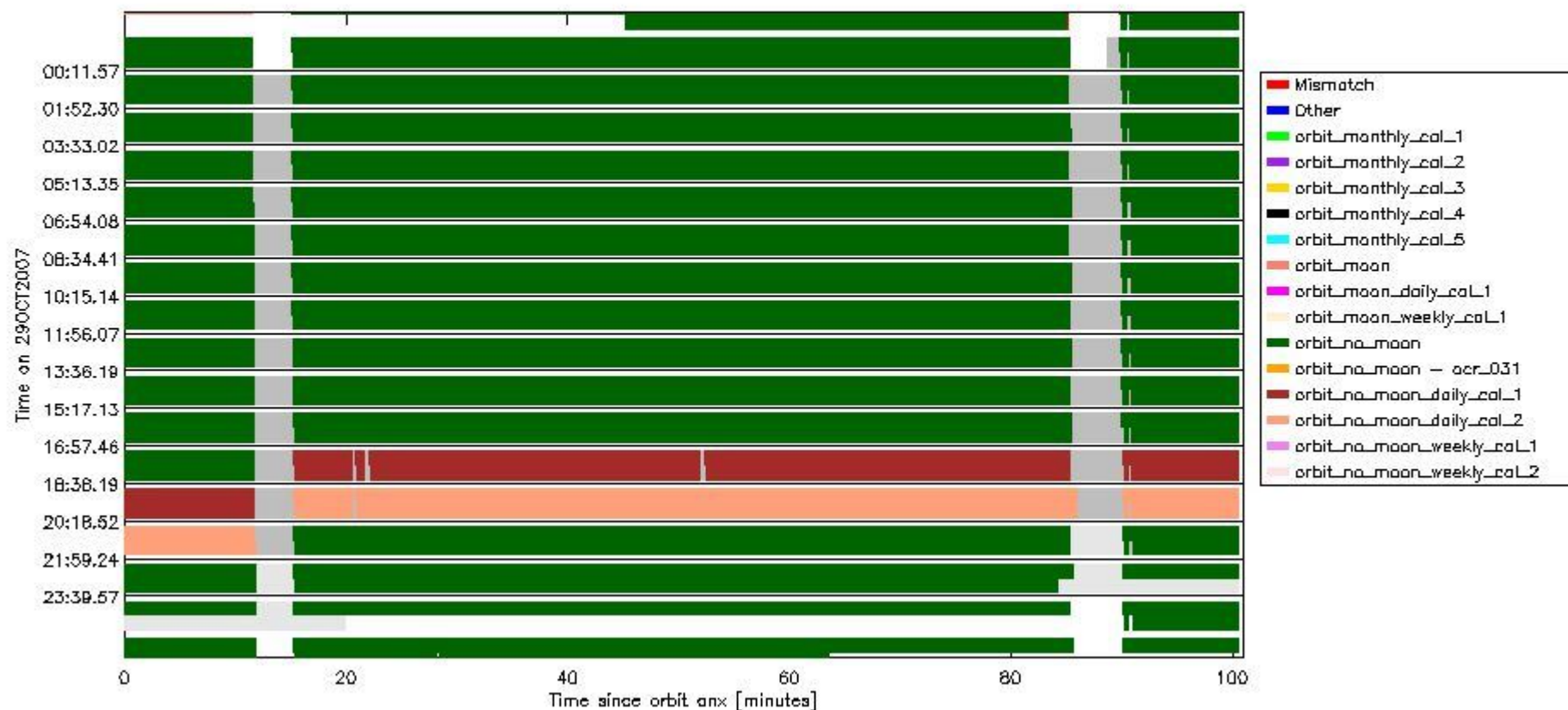


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071029\_5.PNG

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 29OCT2007.  
 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\_4302\_N\_20071029\_6.PNG

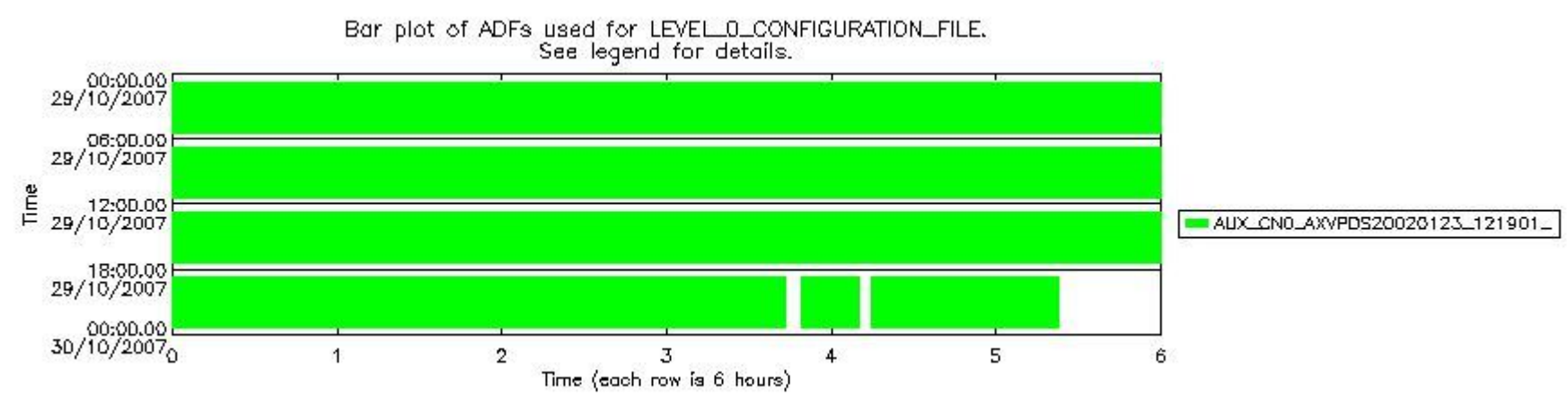
## 0.4 ADF monitoring

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

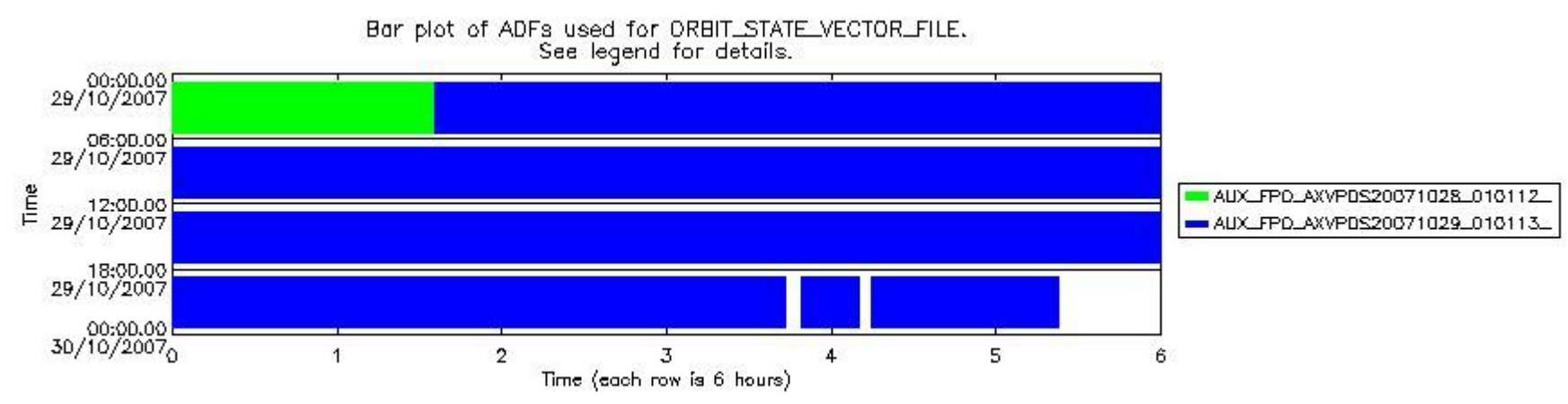
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

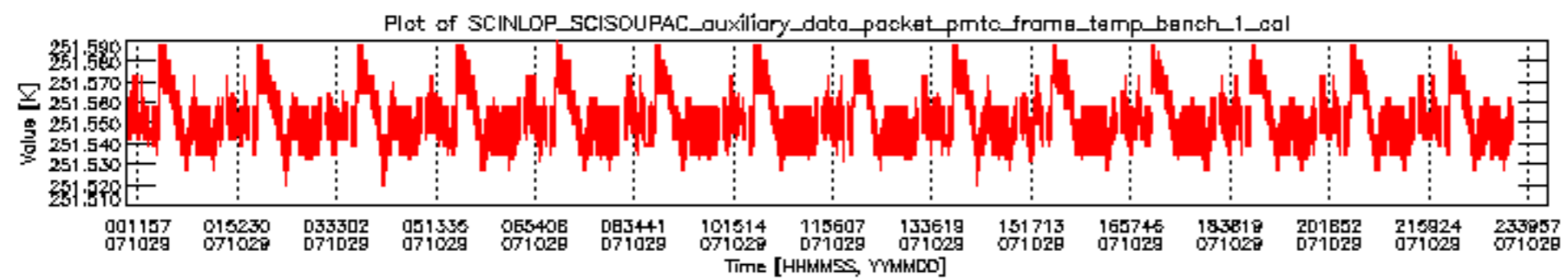
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20071028_010112_20071027_194134_20071106_210748
2	AUX_FPO_AXVPDS20071029_010113_20071028_190957_20071107_203611



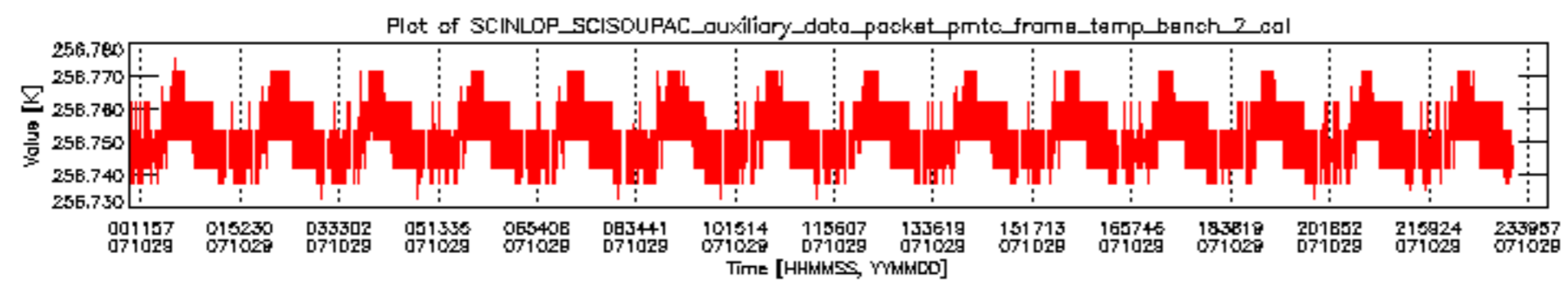
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071029\_7.PNG

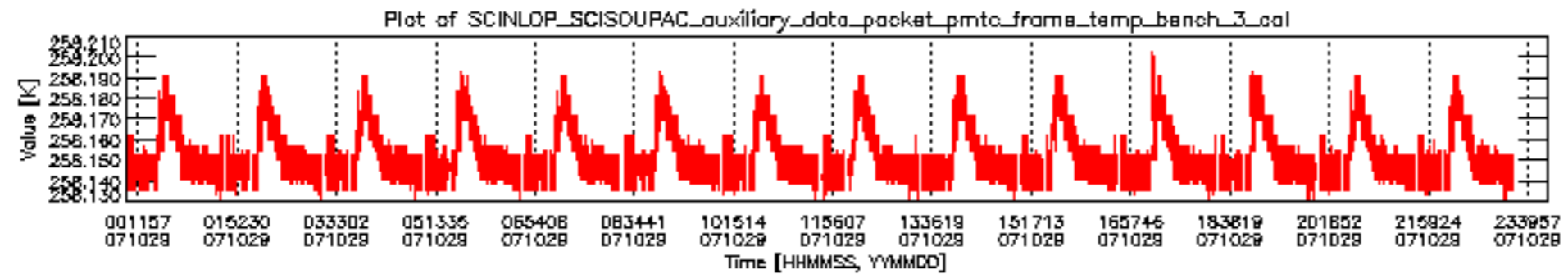


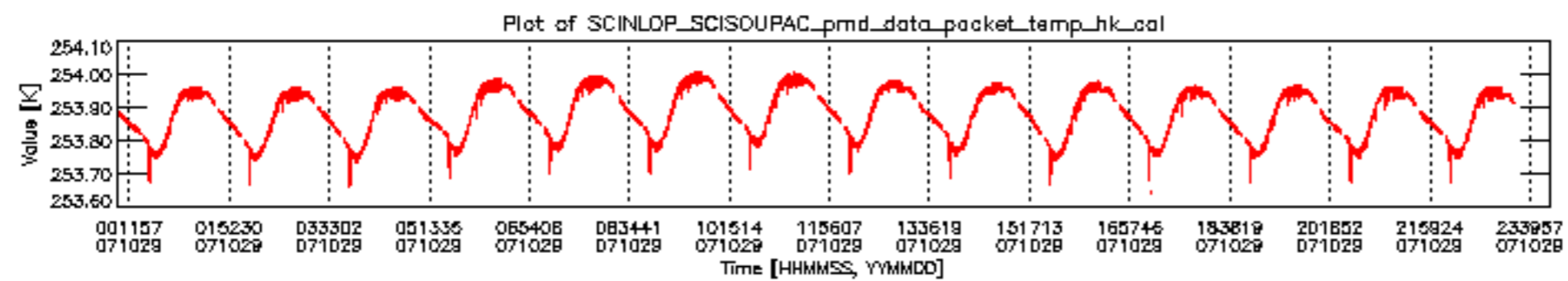
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071029\_8.PNG

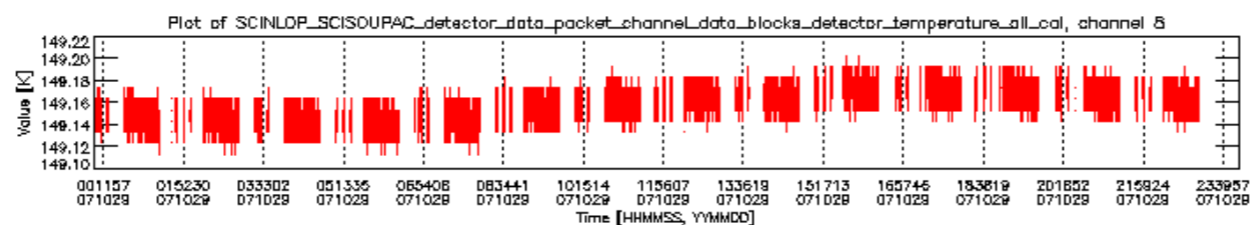
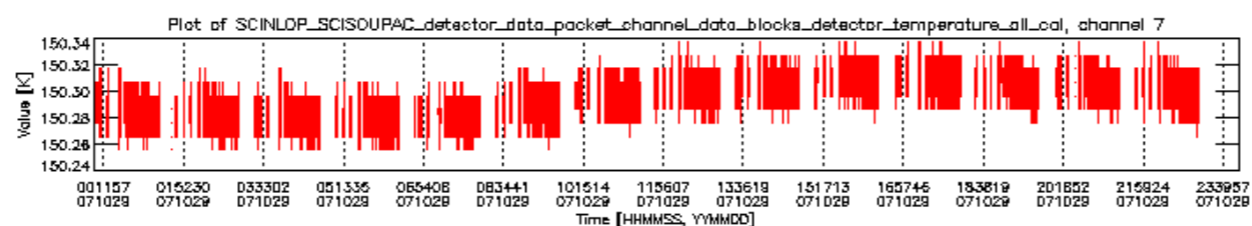
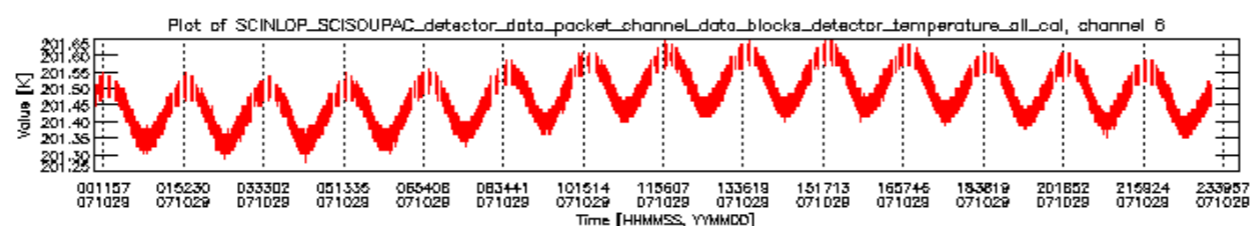
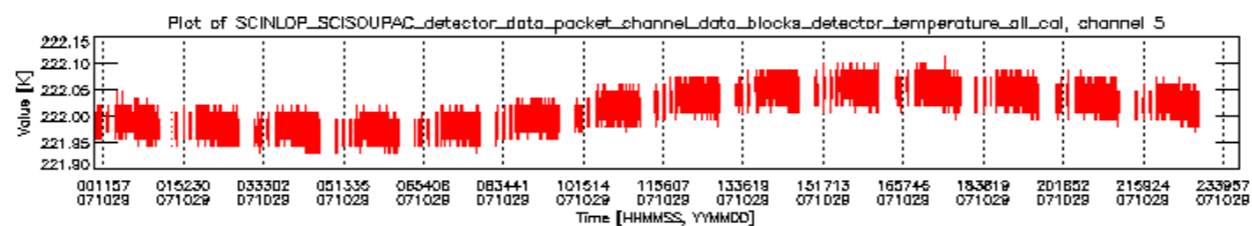
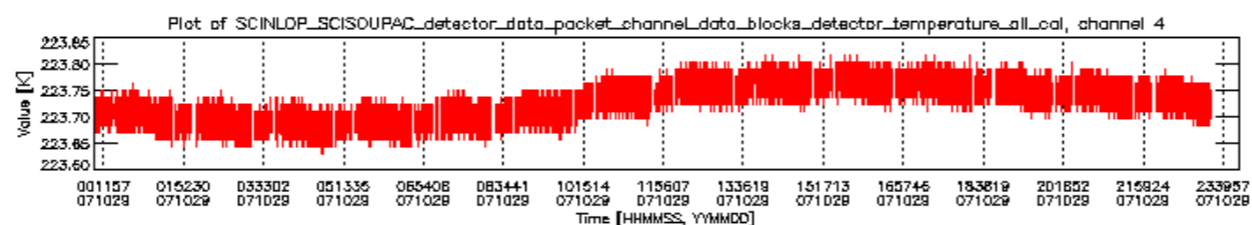
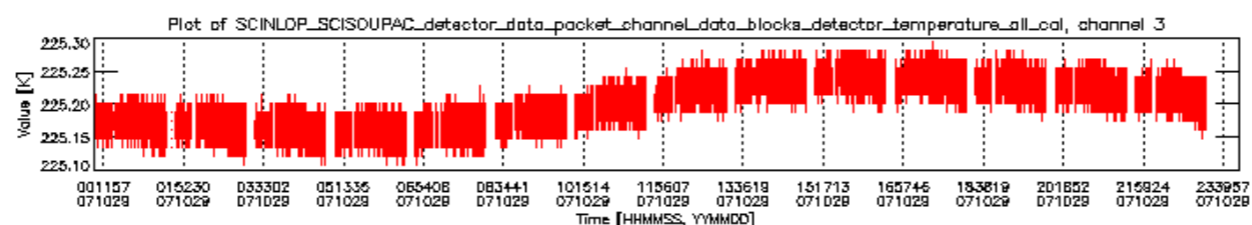
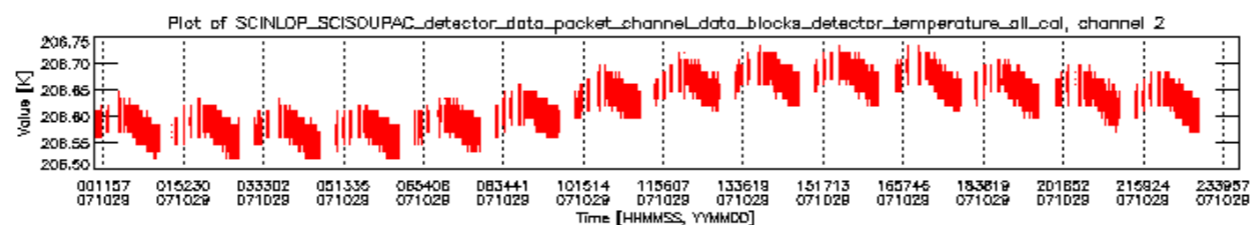
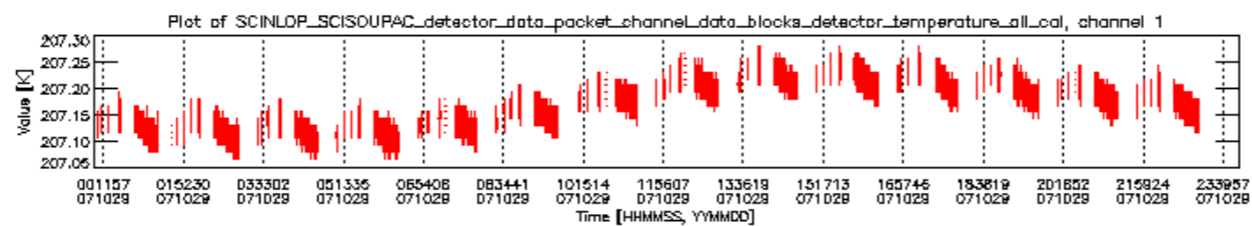






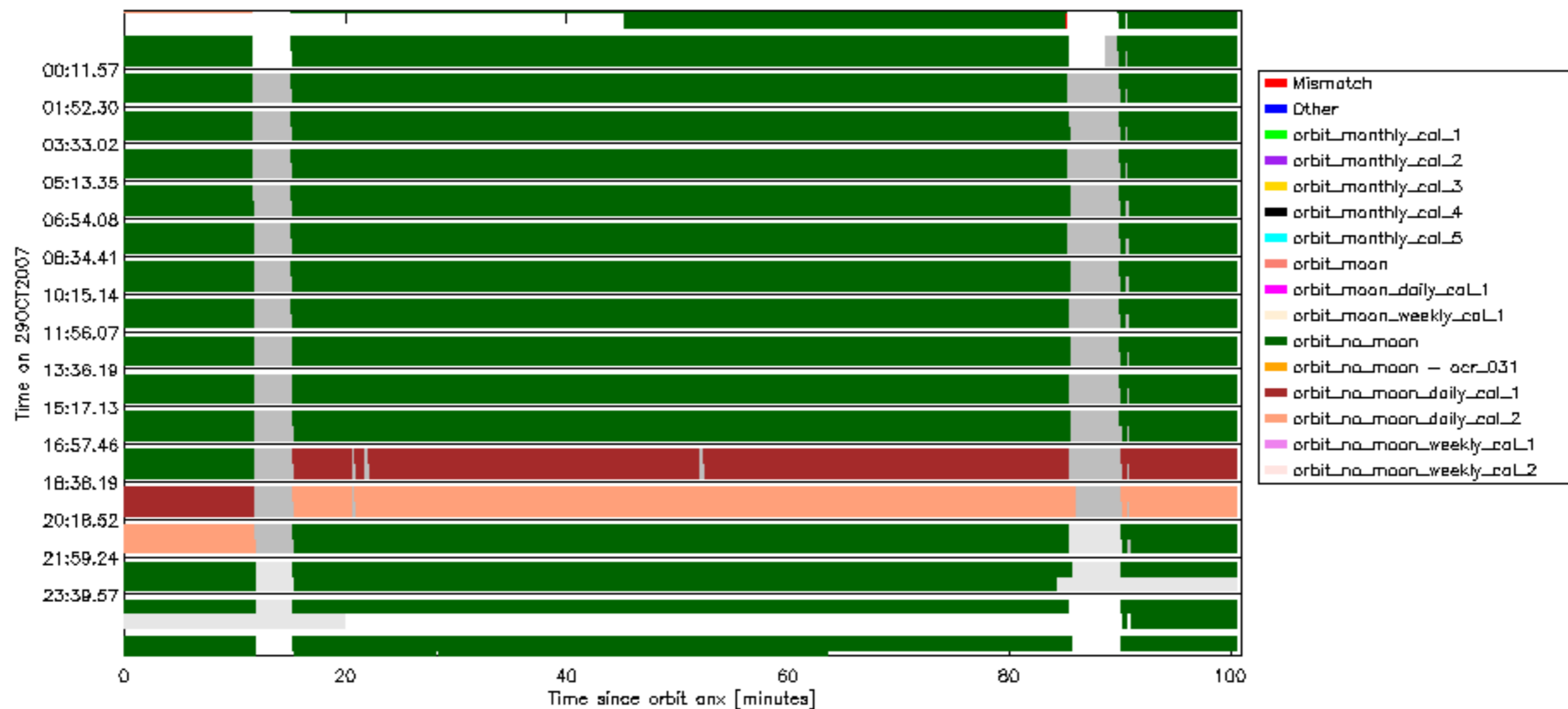


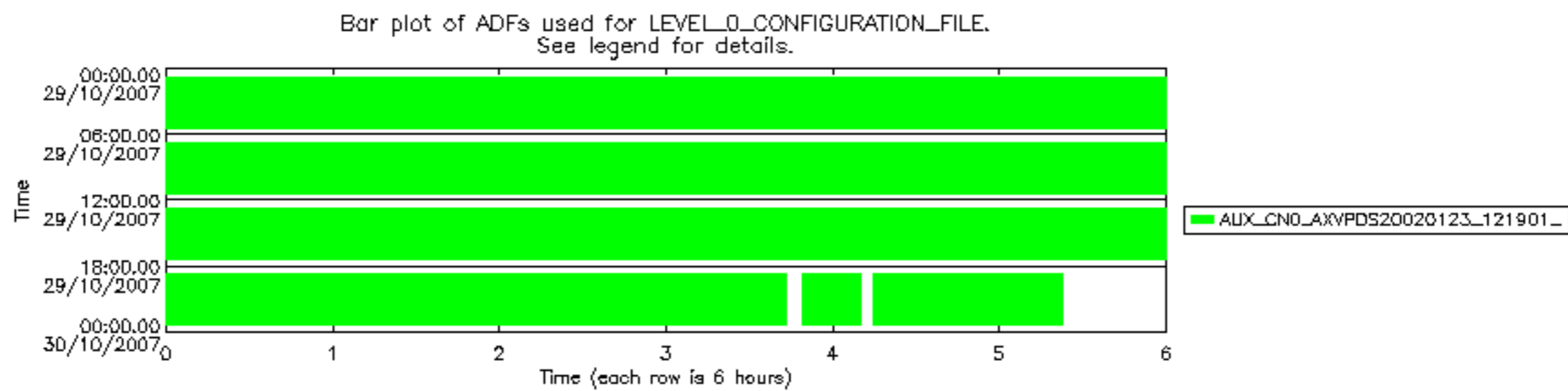






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 29OCT2007.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

