

## 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	v1.3 20060731
Time of report generation	04DEC2007 03:40:19
Data source version	KSPT_L0/4302-N
Processing scope for products	30NOV2007 00:00:00 to 01DEC2007 00:00:00
Start time of first product within scope	29NOV2007 23:51:58
Stop time of last product within scope	01DEC2007 01:01:13
Total number of level 0 products	16
Number of level 0 products with errors	1

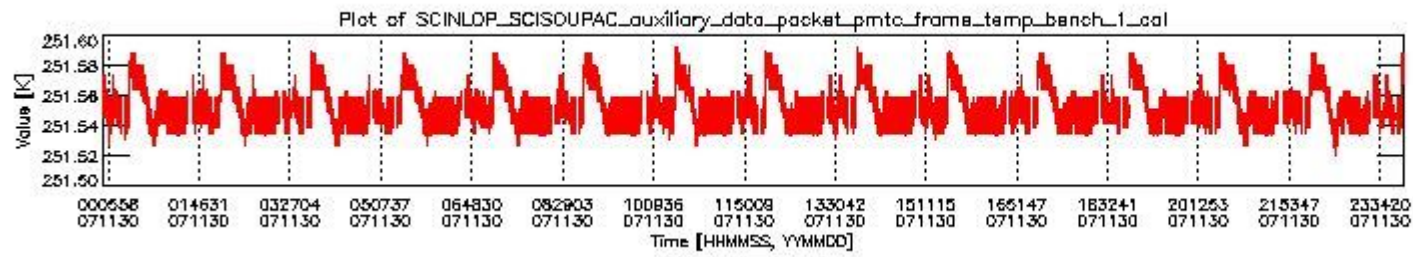
### 0.1.2 Summary per product

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

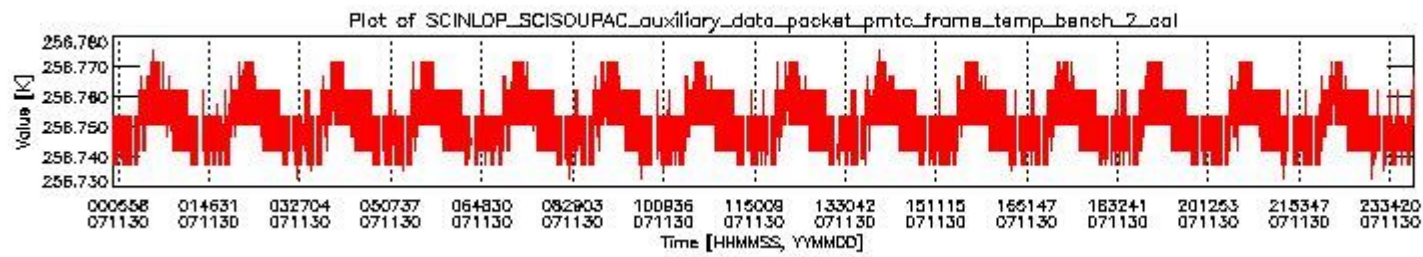
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDE20071129_235158_000059802063_00445_30058_5678.N1	29NOV2007 23:51:58	30NOV2007 01:31:39	0	0	0	0	0
1	SCI_NL__0PNPDE20071130_013030_000044242063_00446_30059_5679.N1	30NOV2007 01:30:30	30NOV2007 02:44:14	0	0	0	0	0
2	SCI_NL__0PNPDE20071130_024305_000061732063_00447_30060_5680.N1	30NOV2007 02:43:05	30NOV2007 04:25:58	0	0	0	0	0
3	SCI_NL__0PNPDE20071130_042450_000062172063_00448_30061_5681.N1	30NOV2007 04:24:50	30NOV2007 06:08:26	0	0	0	0	0
4	SCI_NL__0PNPDK20071130_060730_000040452063_00449_30062_6766.N1	30NOV2007 06:07:30	30NOV2007 07:14:56	0	0	0	0	0
5	SCI_NL__0PNPDK20071130_071400_000061482063_00450_30063_6767.N1	30NOV2007 07:14:00	30NOV2007 08:56:28	0	0	0	0	0
6	SCI_NL__0PNPDK20071130_085436_000059802063_00451_30064_6768.N1	30NOV2007 08:54:36	30NOV2007 10:34:16	1	0	1	0	0
7	SCI_NL__0PNPDK20071130_103320_000062602063_00452_30065_6769.N1	30NOV2007 10:33:20	30NOV2007 12:17:40	0	0	0	0	0
8	SCI_NL__0PNPDK20071130_121548_000059242063_00453_30066_6770.N1	30NOV2007 12:15:48	30NOV2007 13:54:32	0	0	0	0	0
9	SCI_NL__0PNPDK20071130_135215_000060362063_00454_30067_6771.N1	30NOV2007 13:52:15	30NOV2007 15:32:51	0	0	0	0	0
10	SCI_NL__0PNPDK20071130_153251_000055262063_00455_30068_6772.N1	30NOV2007 15:32:51	30NOV2007 17:04:57	0	0	0	0	0
11	SCI_NL__0PNPDK20071130_170336_000061122063_00456_30069_6773.N1	30NOV2007 17:03:36	30NOV2007 18:45:28	0	0	0	0	0
12	SCI_NL__0PNPDK20071130_184234_000062152063_00457_30070_6774.N1	30NOV2007 18:42:34	30NOV2007 20:26:09	0	0	0	0	0
13	SCI_NL__0PNPDE20071130_202609_000044312063_00458_30071_5682.N1	30NOV2007 20:26:09	30NOV2007 21:40:01	0	0	0	0	0
14	SCI_NL__0PNPDE20071130_213852_000060922063_00458_30071_5683.N1	30NOV2007 21:38:52	30NOV2007 23:20:24	0	0	0	0	0
15	SCI_NL__0PNPDE20071130_232637_000056762063_00459_30072_5684.N1	30NOV2007 23:26:37	01DEC2007 01:01:13	0	0	0	0	0

## 0.2 Product Quality Indicators

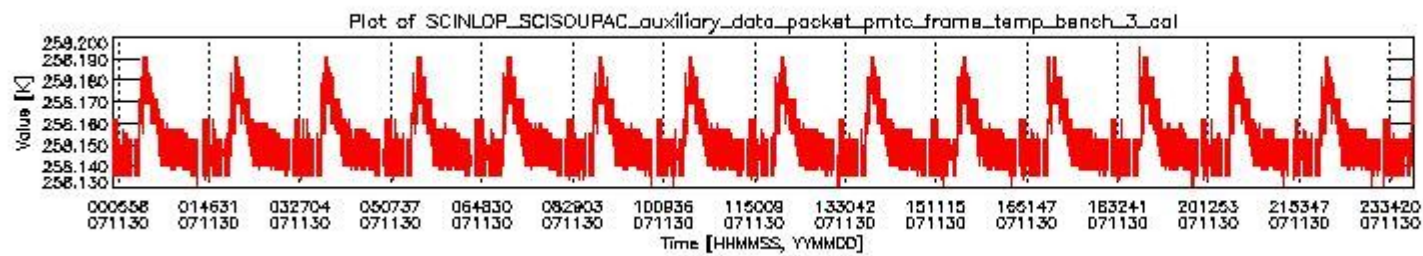
This section shows information about product quality, currently temperatures.



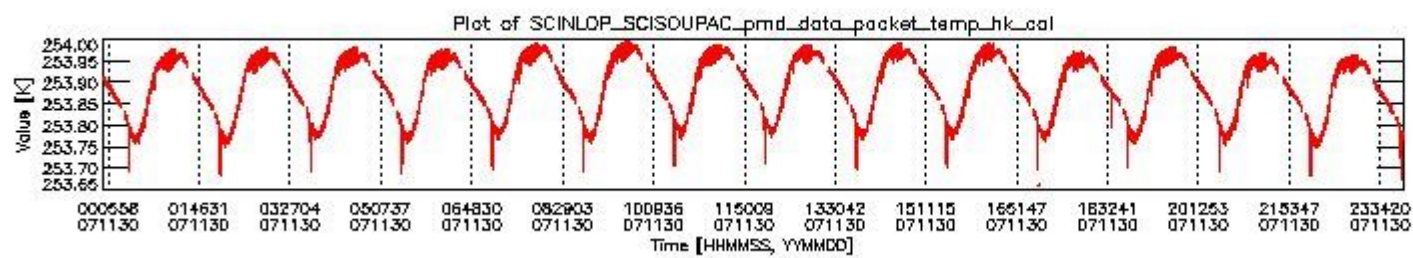
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071130\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071130\_1.PNG

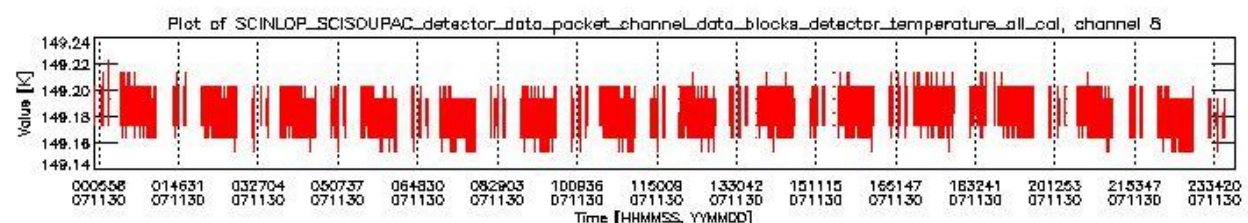
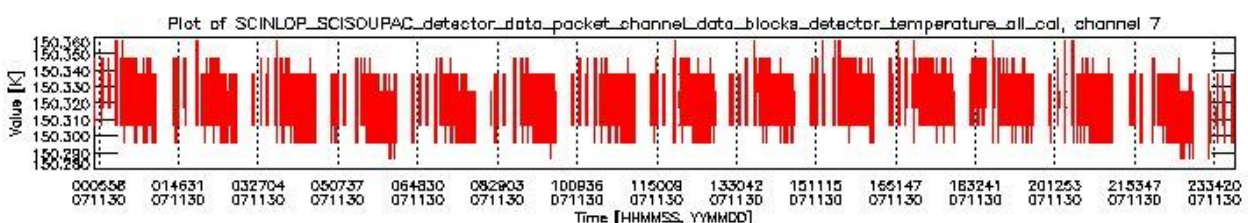
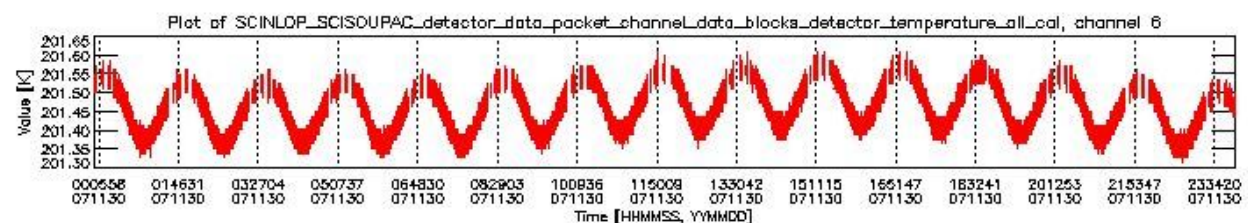
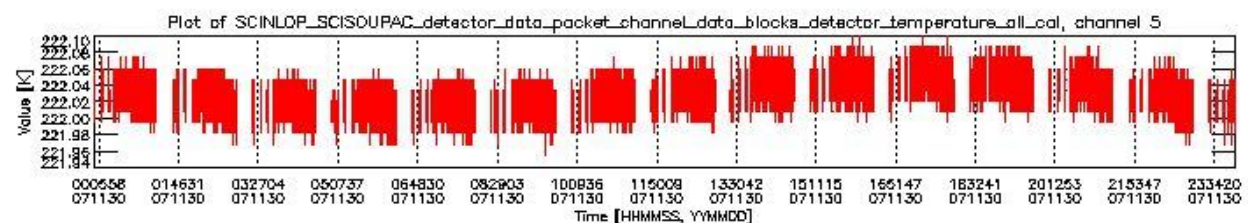
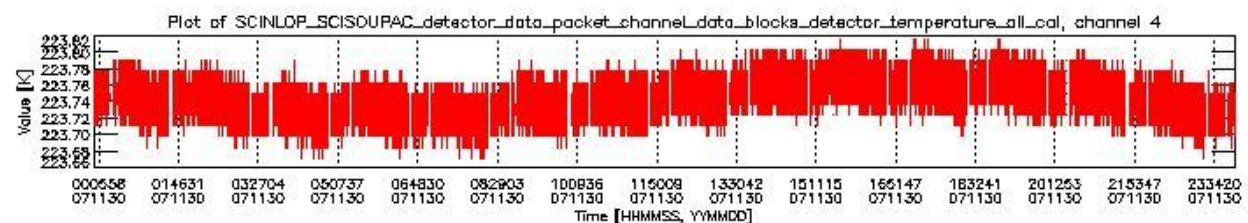
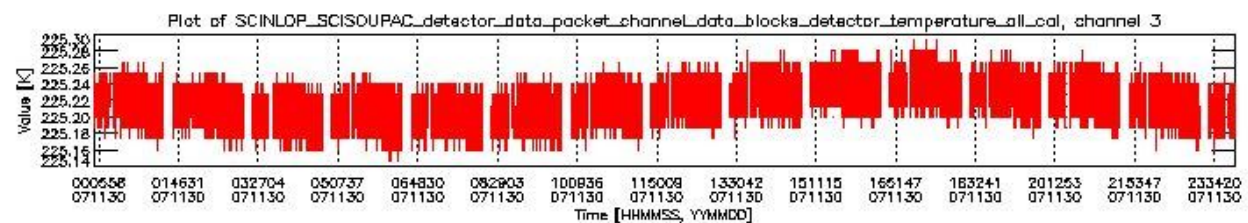
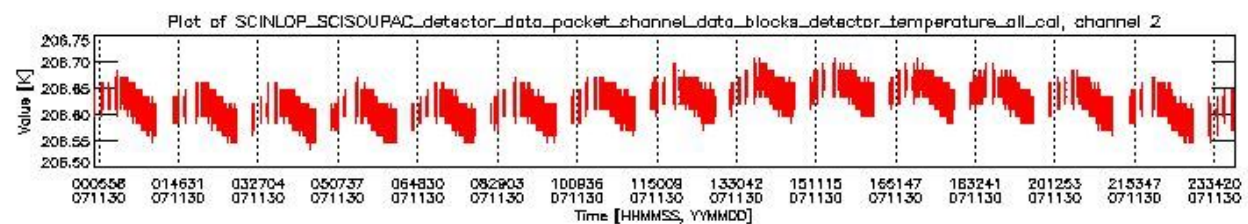
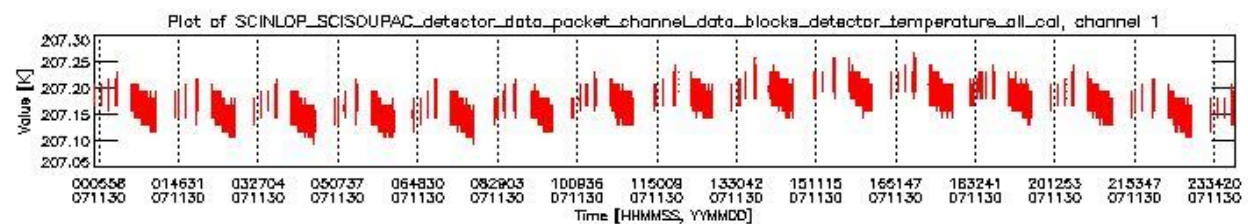


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071130\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071130\_3.PNG



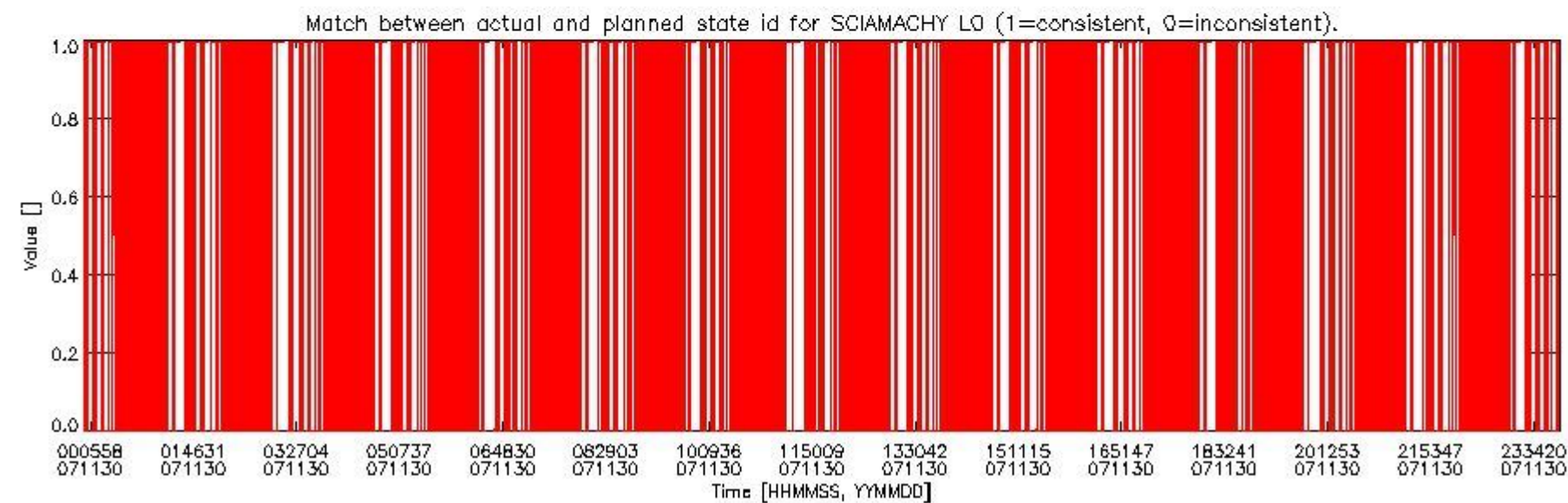
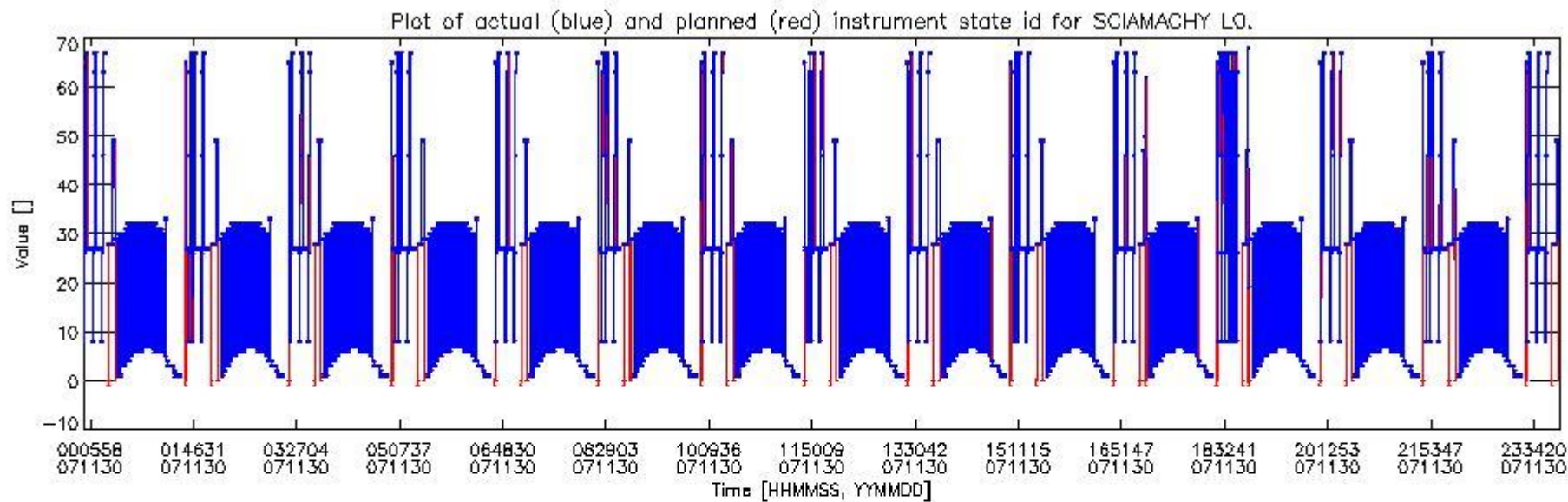


### 0.3 State monitoring

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: **50280**

#	Actual time	Actual value	Planned time	Planned value
0	30NOV2007 00:00:11.956362	46	30NOV2007 00:00:11.956362	26
1	30NOV2007 00:00:12.581384	46	30NOV2007 00:00:12.581384	26
2	30NOV2007 00:00:13.081361	46	30NOV2007 00:00:13.081361	26
3	30NOV2007 00:00:13.581379	46	30NOV2007 00:00:13.581379	26
4	30NOV2007 00:00:14.081396	46	30NOV2007 00:00:14.081396	26
5	30NOV2007 00:00:14.581373	46	30NOV2007 00:00:14.581373	26
6	30NOV2007 00:00:15.081391	46	30NOV2007 00:00:15.081391	26
7	30NOV2007 00:00:15.581368	46	30NOV2007 00:00:15.581368	26
8	30NOV2007 00:00:16.081385	46	30NOV2007 00:00:16.081385	26
9	30NOV2007 00:00:16.581362	46	30NOV2007 00:00:16.581362	26
10	30NOV2007 00:00:16.956376	46	30NOV2007 00:00:16.956376	26
11	30NOV2007 00:00:17.081380	46	30NOV2007 00:00:17.081380	26
12	30NOV2007 00:00:17.581397	46	30NOV2007 00:00:17.581397	26
13	30NOV2007 00:00:18.081374	46	30NOV2007 00:00:18.081374	26
14	30NOV2007 00:00:18.581392	46	30NOV2007 00:00:18.581392	26
15	30NOV2007 00:00:19.081369	46	30NOV2007 00:00:19.081369	26
16	30NOV2007 00:00:19.581386	46	30NOV2007 00:00:19.581386	26
17	30NOV2007 00:00:20.081364	46	30NOV2007 00:00:20.081364	26
18	30NOV2007 00:00:20.581381	46	30NOV2007 00:00:20.581381	26
19	30NOV2007 00:00:21.081358	46	30NOV2007 00:00:21.081358	26
...	...	...	...	...



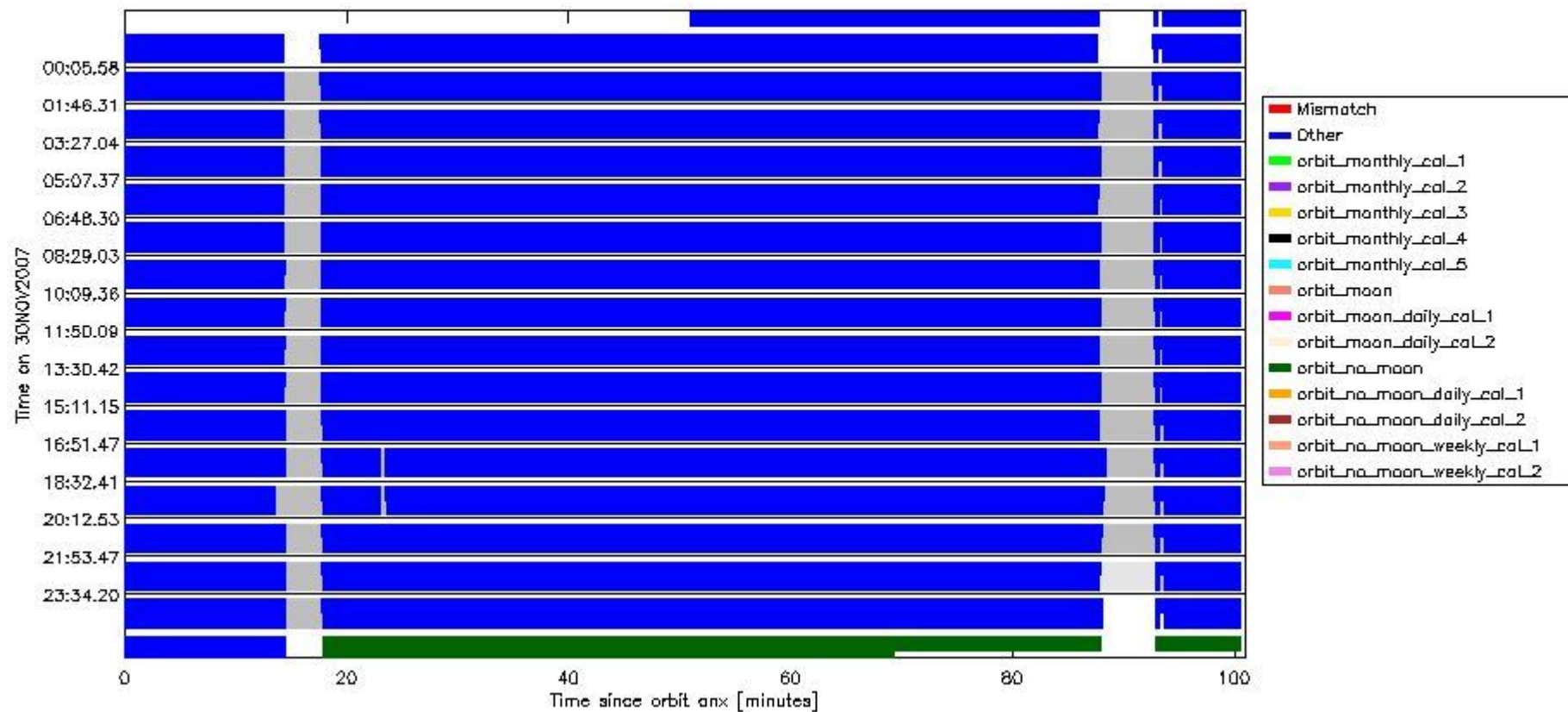
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071130\_5.PNG

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 30NOV2007.  
 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\_20071130\_6.PNG

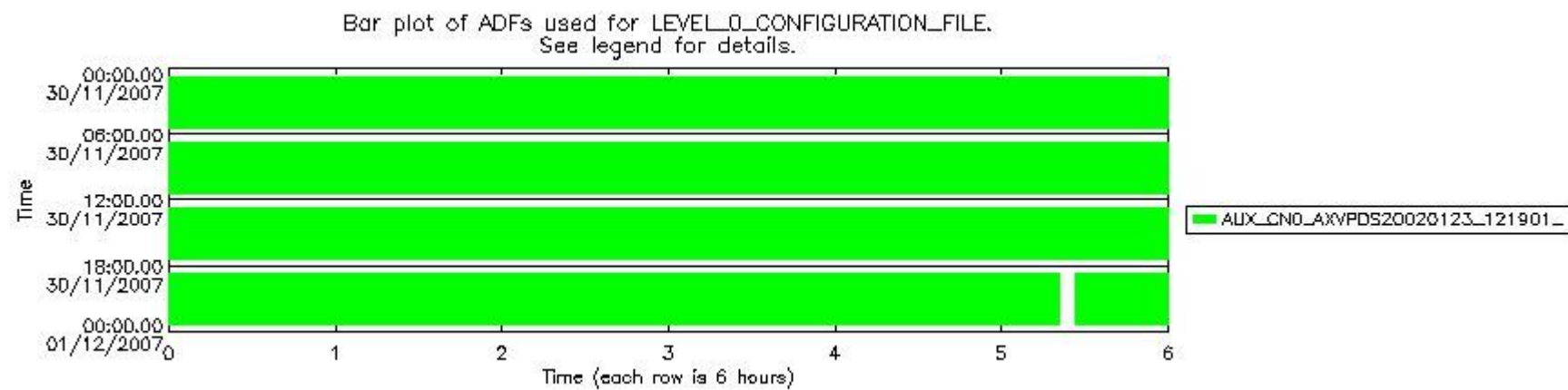
## 0.4 ADF monitoring

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

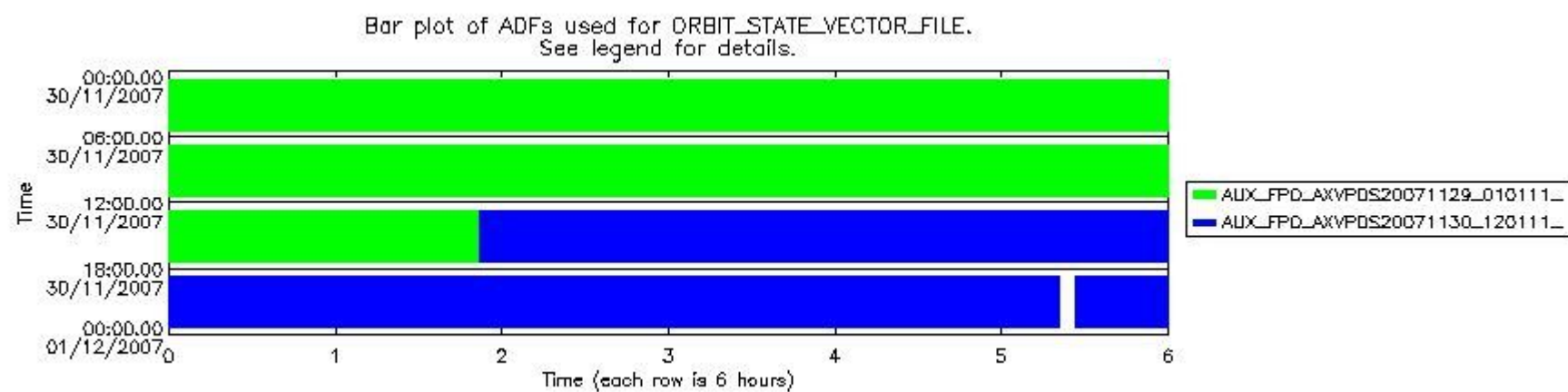
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

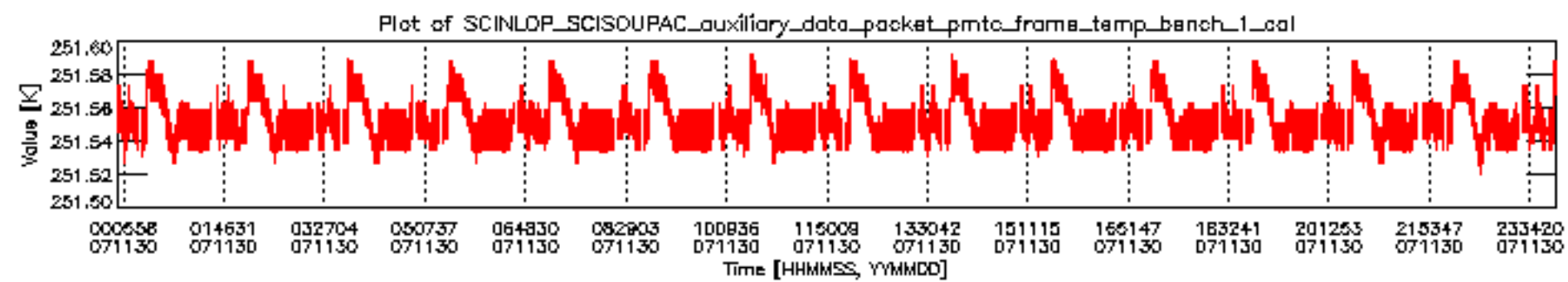
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20071129_010111_20071128_093210_20071207_231412
2	AUX_FPO_AXVPDS20071130_120111_20071129_190409_20071209_203022



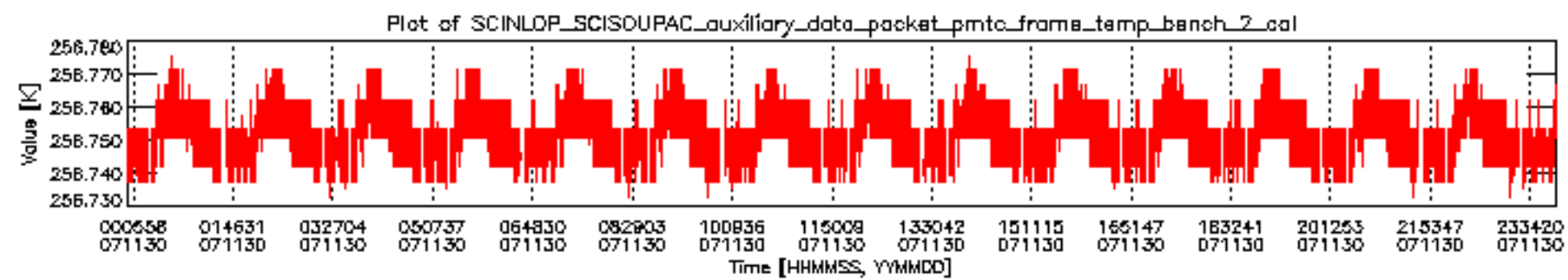
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071130\_7.PNG

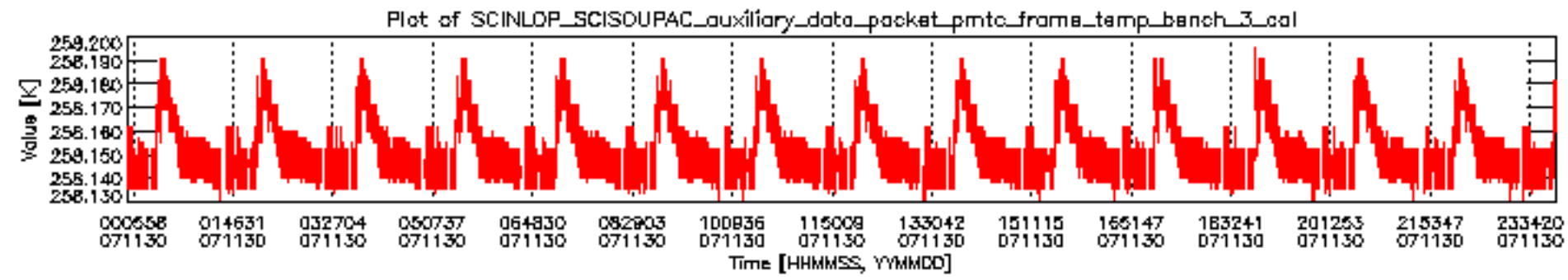


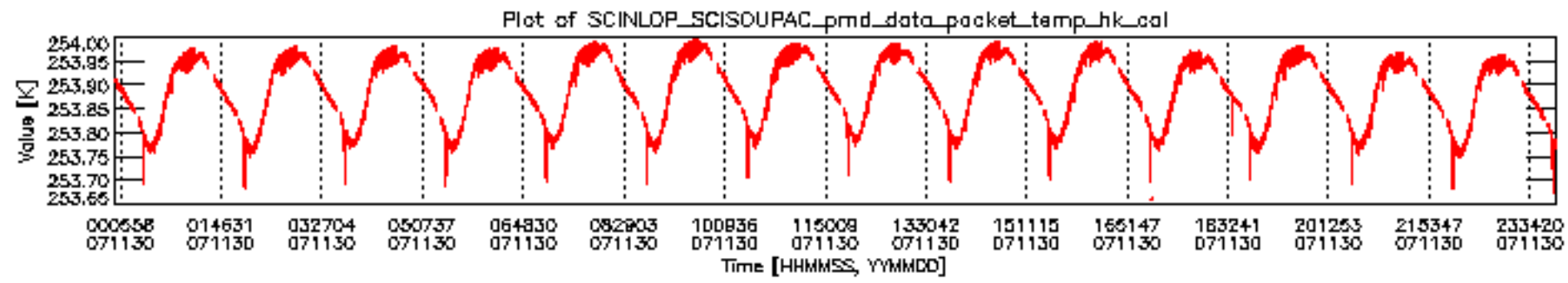
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071130\_8.PNG

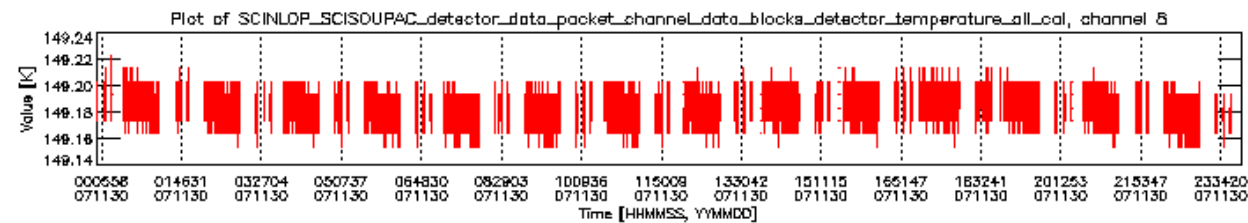
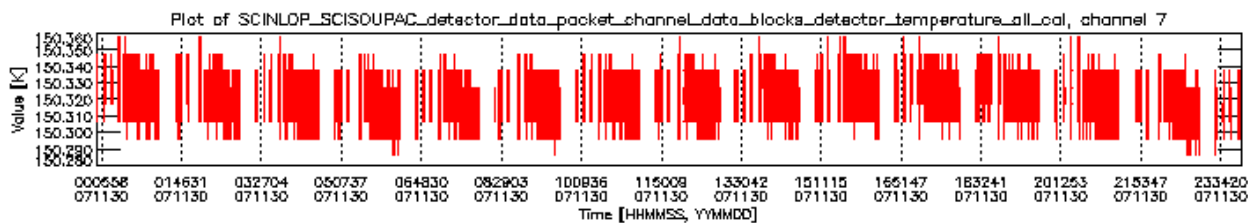
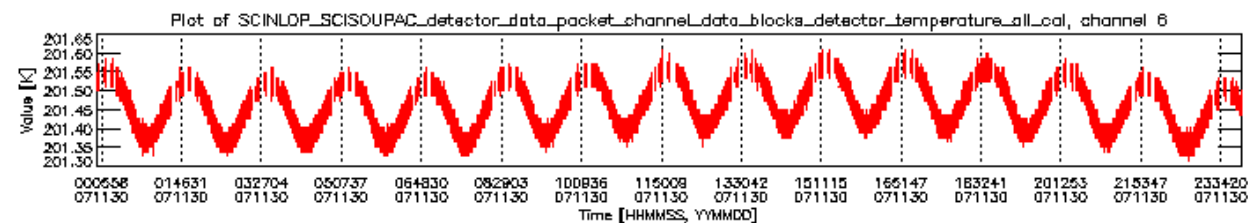
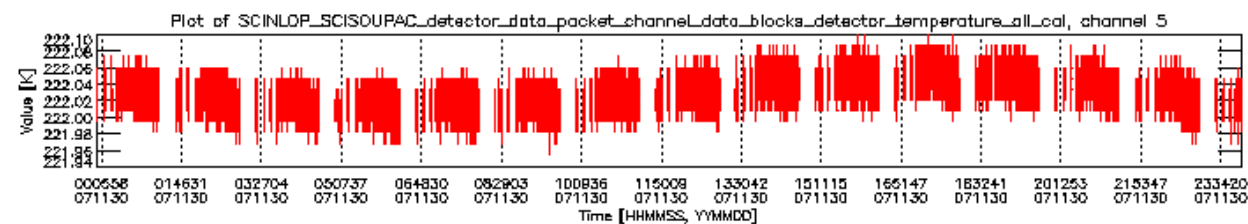
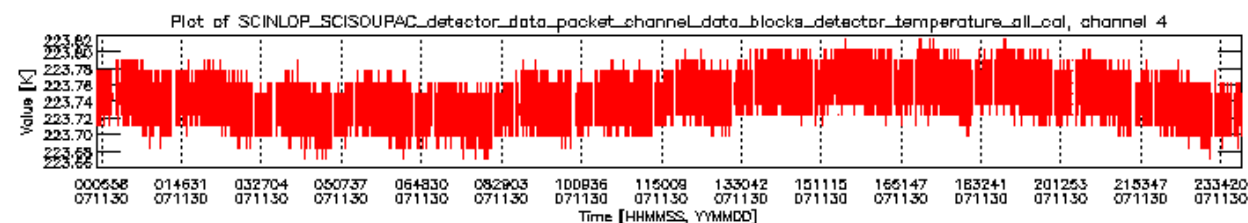
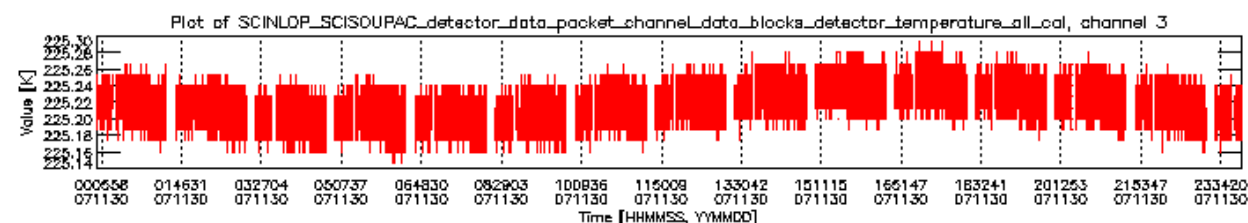
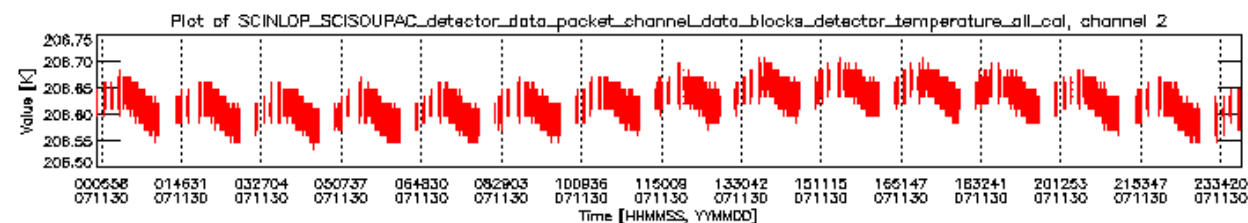
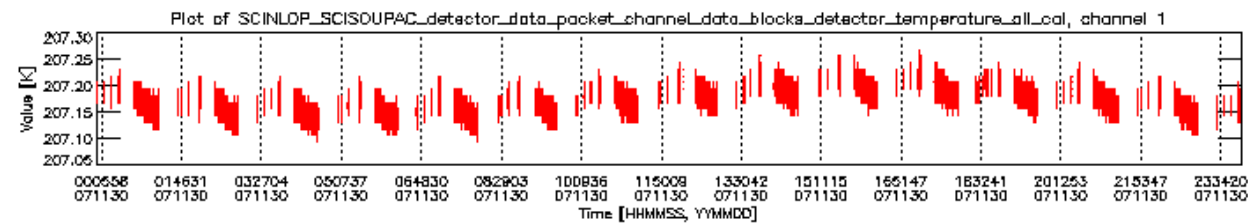








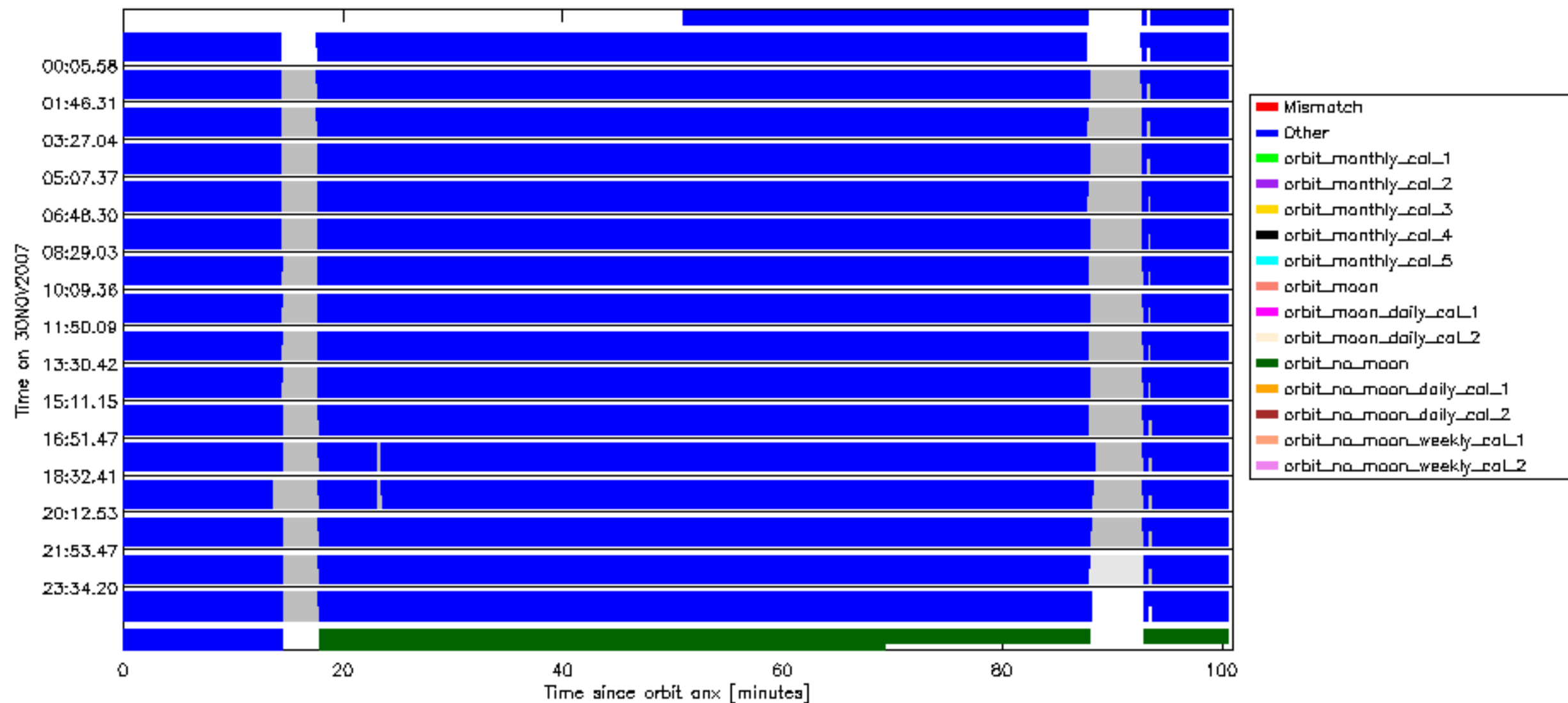


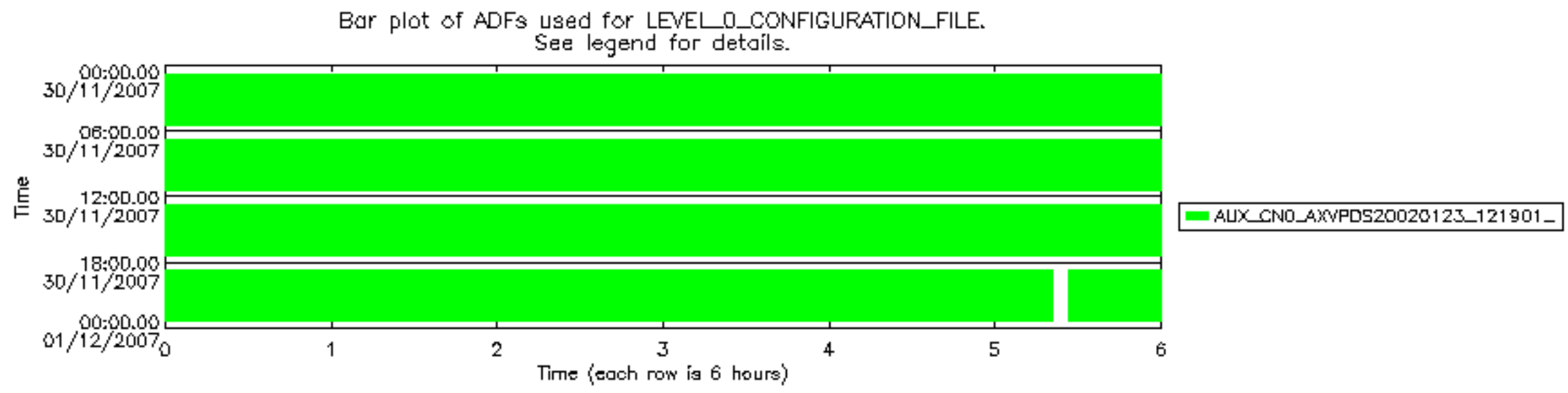






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 30NOV2007.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

