

## 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	20JAN2009 04:39:55
Data source version	KSPT_L0/4303-N
Processing scope for products	16JAN2009 00:00:00 to 17JAN2009 00:00:00
Start time of first product within scope	15JAN2009 22:38:07
Stop time of last product within scope	17JAN2009 01:20:34
Total number of level 0 products	17
Number of level 0 products with errors	0

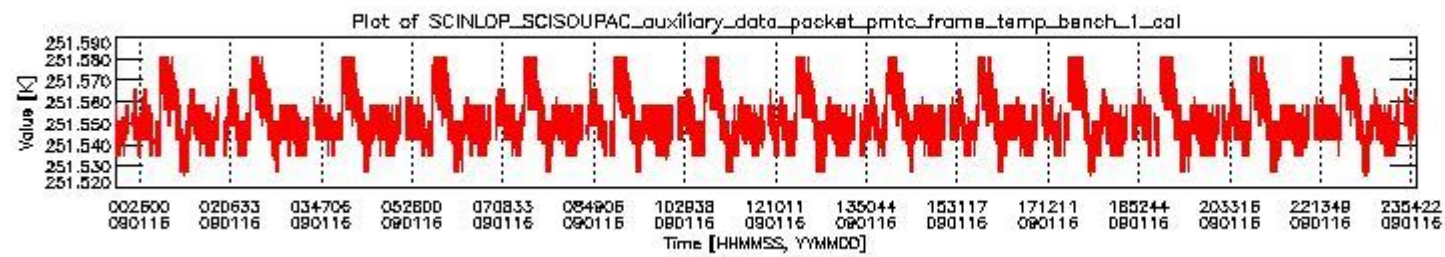
### 0.1.2 Summary per product

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

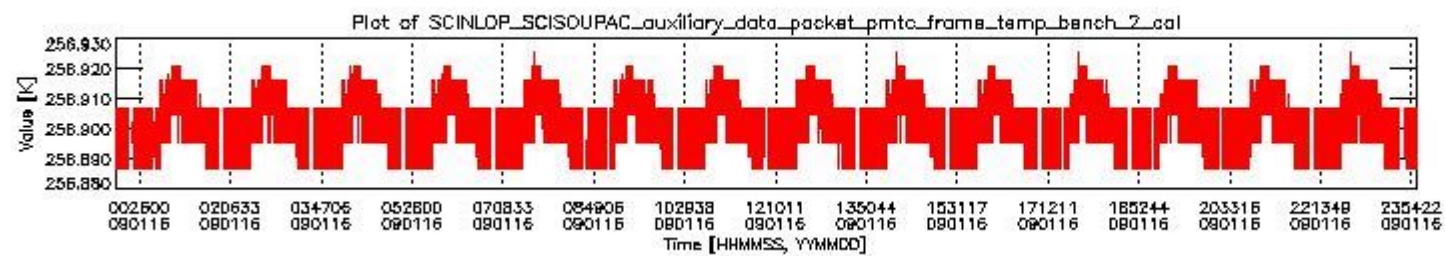
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090115_223807_000056002075_00344_35969_8300.N1	15JAN2009 22:38:07	16JAN2009 00:11:27	0	0	0	0	0
1	SCI_NL__OPNPDE20090116_001843_000056122075_00345_35970_8301.N1	16JAN2009 00:18:43	16JAN2009 01:52:15	0	0	0	0	0
2	SCI_NL__OPNPDE20090116_015107_000047842075_00346_35971_8302.N1	16JAN2009 01:51:07	16JAN2009 03:10:50	0	0	0	0	0
3	SCI_NL__OPNPDE20090116_030954_000058552075_00347_35972_8303.N1	16JAN2009 03:09:54	16JAN2009 04:47:30	0	0	0	0	0
4	SCI_NL__OPNPDE20090116_044730_000060922075_00348_35973_8304.N1	16JAN2009 04:47:30	16JAN2009 06:29:01	0	0	0	0	0
5	SCI_NL__OPNPDK20090116_062753_000041132075_00349_35974_0465.N1	16JAN2009 06:27:53	16JAN2009 07:36:26	0	0	0	0	0
6	SCI_NL__OPNPDK20090116_073422_000061602075_00350_35975_0466.N1	16JAN2009 07:34:22	16JAN2009 09:17:02	0	0	0	0	0
7	SCI_NL__OPNPDK20090116_091553_000061042075_00351_35976_0467.N1	16JAN2009 09:15:53	16JAN2009 10:57:37	0	0	0	0	0
8	SCI_NL__OPNPDK20090116_105533_000060912075_00352_35977_0468.N1	16JAN2009 10:55:33	16JAN2009 12:37:04	0	0	0	0	0
9	SCI_NL__OPNPDK20090116_123513_000059242075_00353_35978_0469.N1	16JAN2009 12:35:13	16JAN2009 14:13:56	0	0	0	0	0
10	SCI_NL__OPNPDK20090116_141138_000060362075_00354_35979_0470.N1	16JAN2009 14:11:38	16JAN2009 15:52:14	0	0	0	0	0
11	SCI_NL__OPNPDK20090116_155214_000059232075_00355_35980_0471.N1	16JAN2009 15:52:14	16JAN2009 17:30:57	0	0	0	0	0
12	SCI_NL__OPNPDK20090116_173001_000057542075_00356_35981_0472.N1	16JAN2009 17:30:01	16JAN2009 19:05:56	0	0	0	0	0
13	SCI_NL__OPNPDK20090116_190941_000058152075_00357_35982_0473.N1	16JAN2009 19:09:41	16JAN2009 20:46:36	0	0	0	0	0
14	SCI_NL__OPNPDE20090116_205017_000041462075_00358_35983_8305.N1	16JAN2009 20:50:17	16JAN2009 21:59:23	0	0	0	0	0
15	SCI_NL__OPNPDE20090116_215923_000060232075_00358_35983_8306.N1	16JAN2009 21:59:23	16JAN2009 23:39:46	0	0	0	0	0
16	SCI_NL__OPNPDE20090116_234703_000056112075_00359_35984_8307.N1	16JAN2009 23:47:03	17JAN2009 01:20:34	0	0	0	0	0

## 0.2 Product Quality Indicators

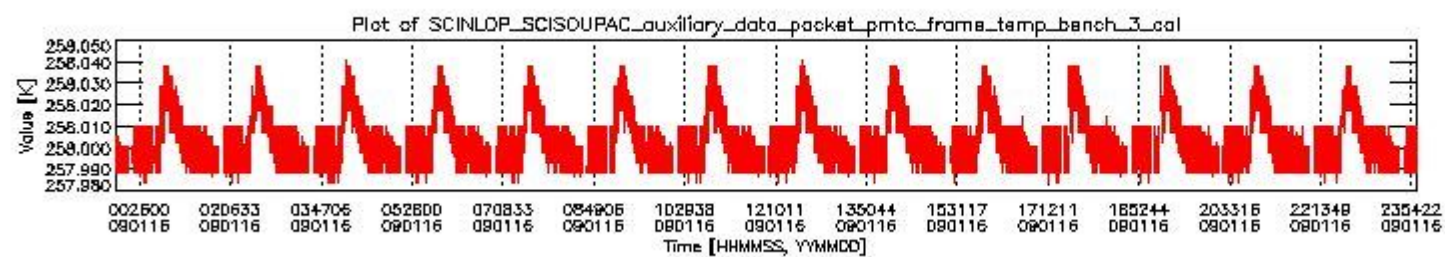
This section shows information about product quality, currently temperatures.



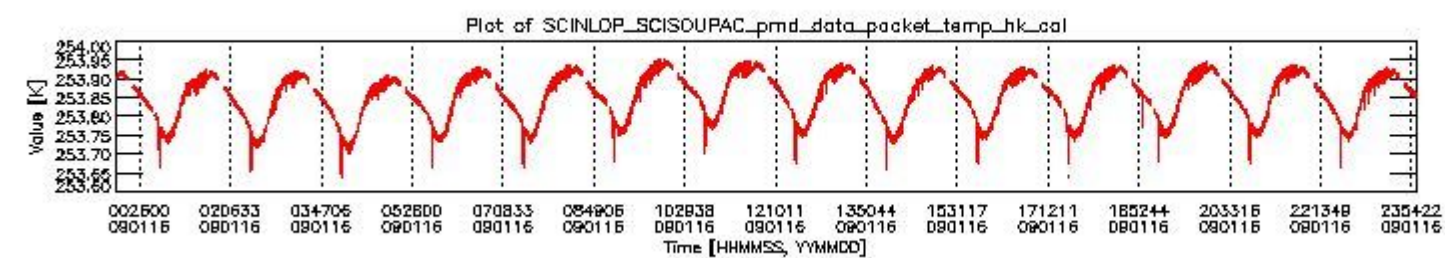
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090116\_0.PNG



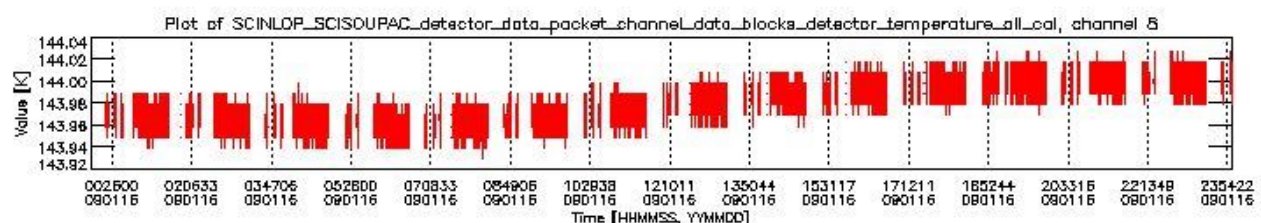
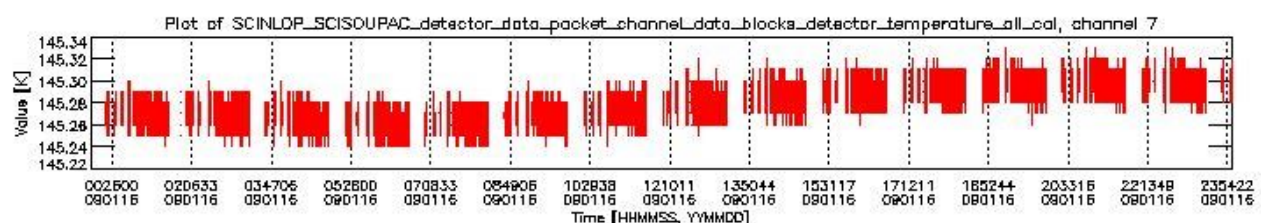
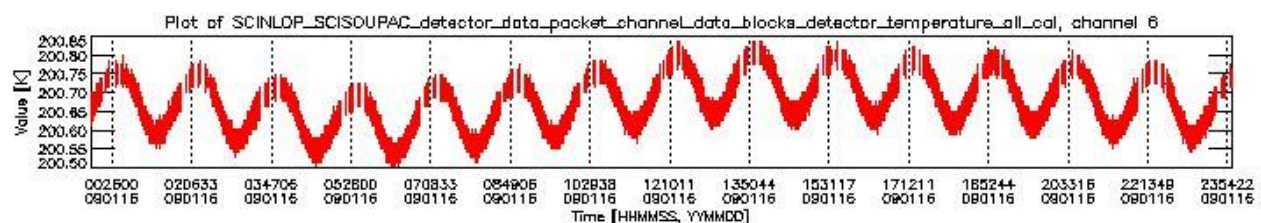
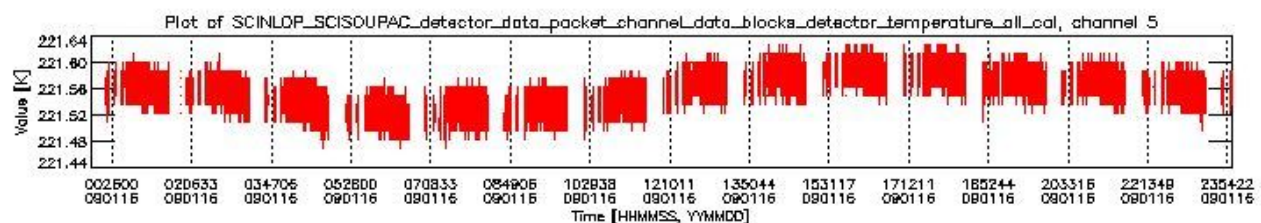
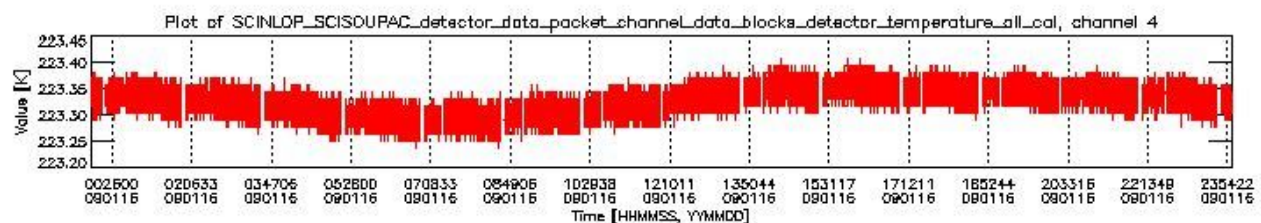
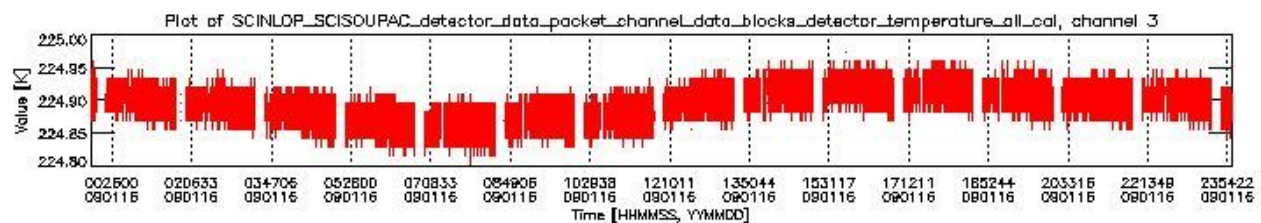
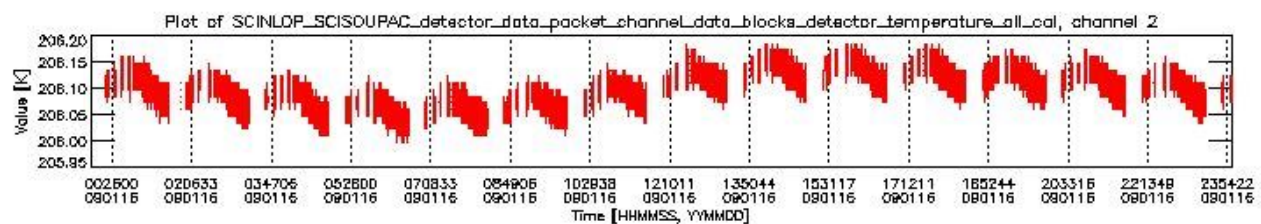
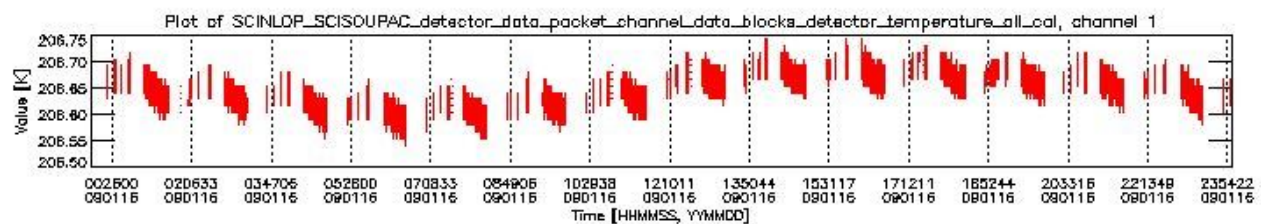
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090116\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090116\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090116\_3.PNG

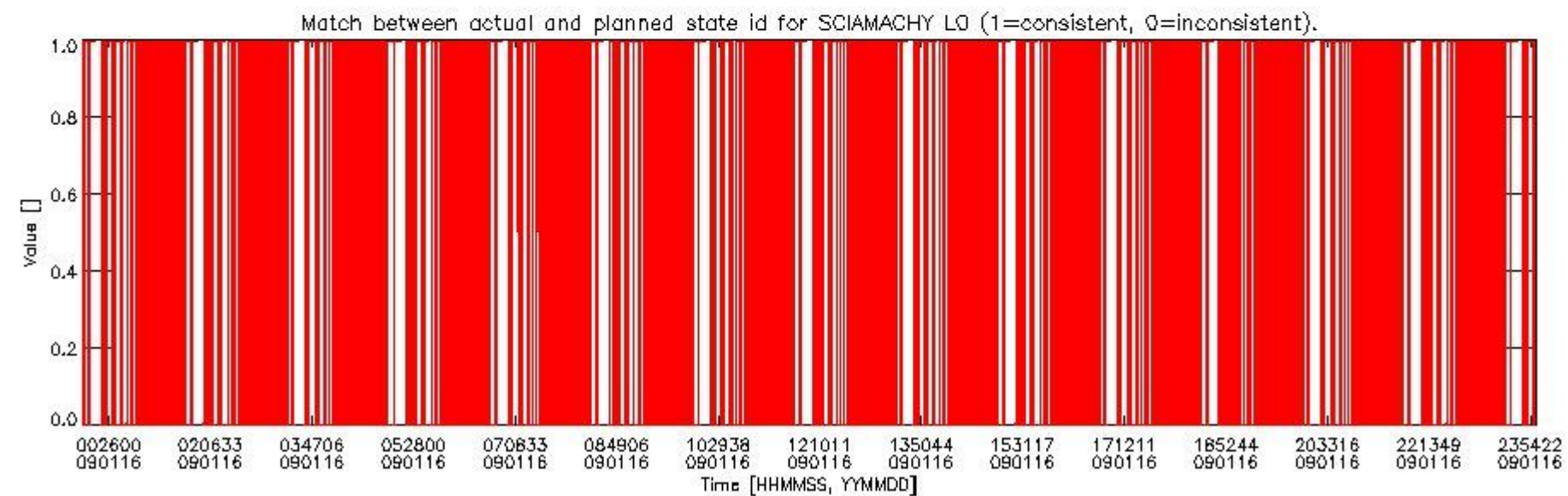
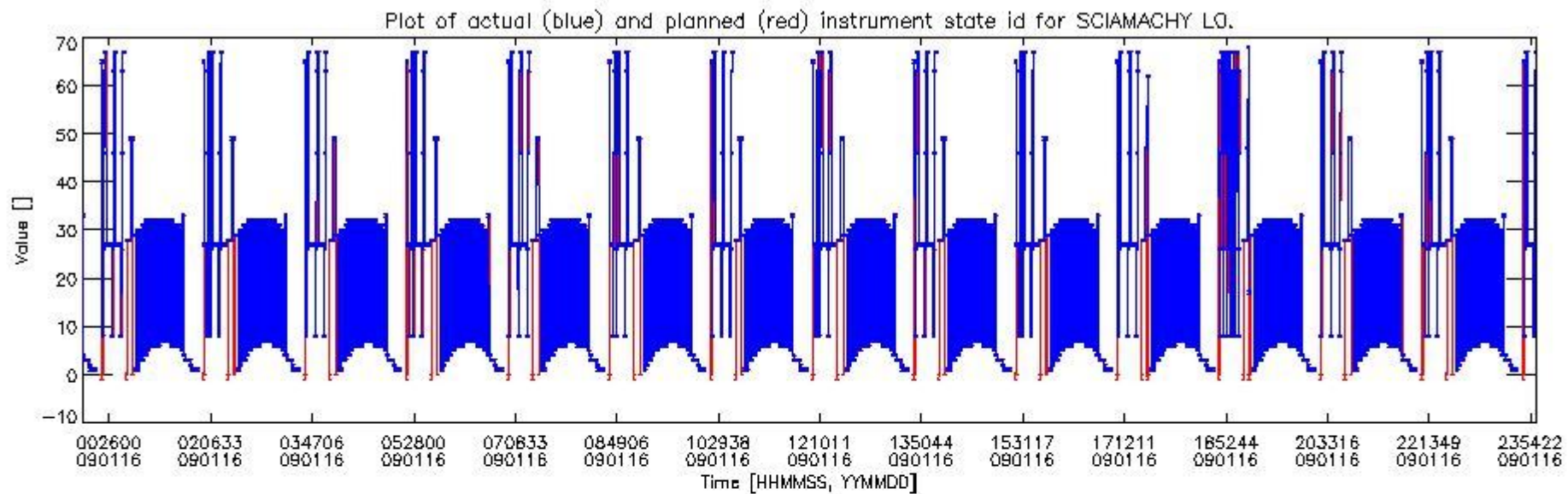


### 0.3 State monitoring

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: **54670**

#	Actual time	Actual value	Planned time	Planned value
0	16JAN2009 00:00:01.865691	4	16JAN2009 00:00:01.865691	33
1	16JAN2009 00:00:02.115700	4	16JAN2009 00:00:02.115700	33
2	16JAN2009 00:00:02.240704	4	16JAN2009 00:00:02.240704	33
3	16JAN2009 00:00:02.365708	4	16JAN2009 00:00:02.365708	33
4	16JAN2009 00:00:02.490672	4	16JAN2009 00:00:02.490672	33
5	16JAN2009 00:00:02.615677	4	16JAN2009 00:00:02.615677	33
6	16JAN2009 00:00:02.740681	4	16JAN2009 00:00:02.740681	33
7	16JAN2009 00:00:02.865686	4	16JAN2009 00:00:02.865686	33
8	16JAN2009 00:00:02.990690	4	16JAN2009 00:00:02.990690	33
9	16JAN2009 00:00:03.115694	4	16JAN2009 00:00:03.115694	33
10	16JAN2009 00:00:03.240699	4	16JAN2009 00:00:03.240699	33
11	16JAN2009 00:00:03.365703	4	16JAN2009 00:00:03.365703	33
12	16JAN2009 00:00:03.490707	4	16JAN2009 00:00:03.490707	33
13	16JAN2009 00:00:03.615671	4	16JAN2009 00:00:03.615671	33
14	16JAN2009 00:00:03.740676	4	16JAN2009 00:00:03.740676	33
15	16JAN2009 00:00:03.865680	4	16JAN2009 00:00:03.865680	33
16	16JAN2009 00:00:03.990684	4	16JAN2009 00:00:03.990684	33
17	16JAN2009 00:00:04.115689	4	16JAN2009 00:00:04.115689	33
18	16JAN2009 00:00:04.240693	4	16JAN2009 00:00:04.240693	33
19	16JAN2009 00:00:04.365698	4	16JAN2009 00:00:04.365698	33
	...	...	...	...

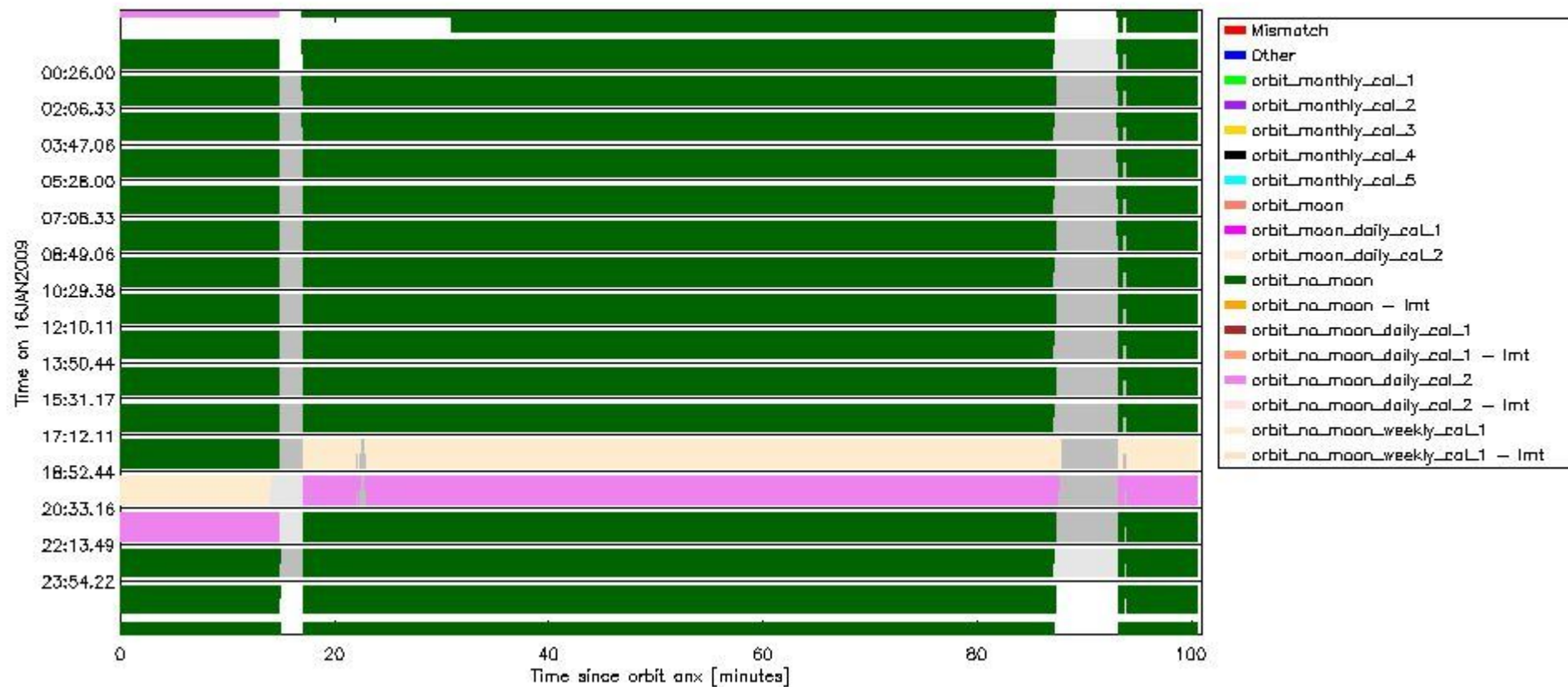


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090116\_5.PNG

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 16JAN2009.  
 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\_4303\_N\_20090116\_6.PNG

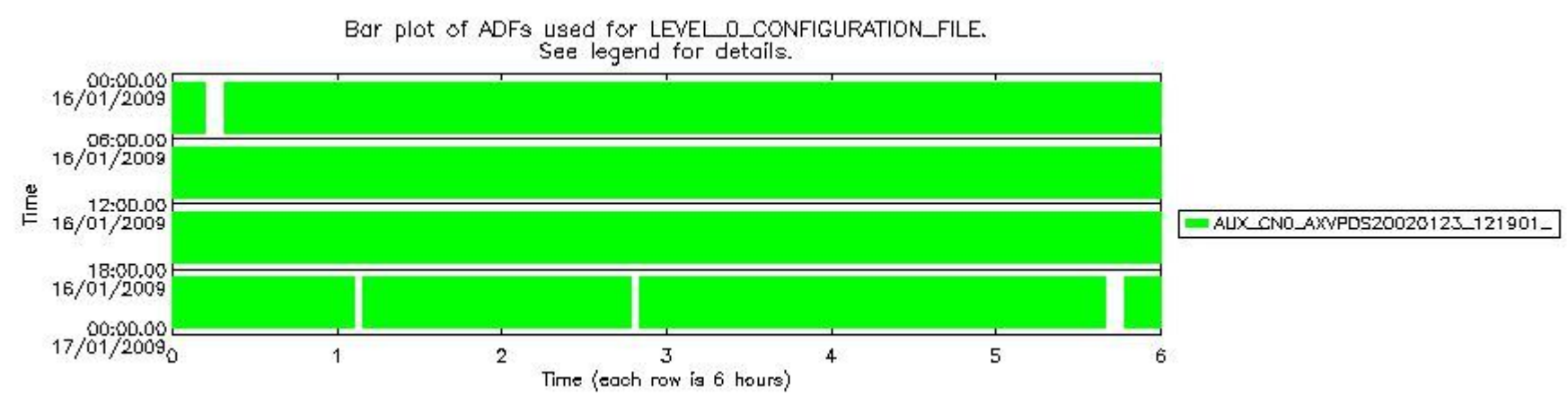
## 0.4 ADF monitoring

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

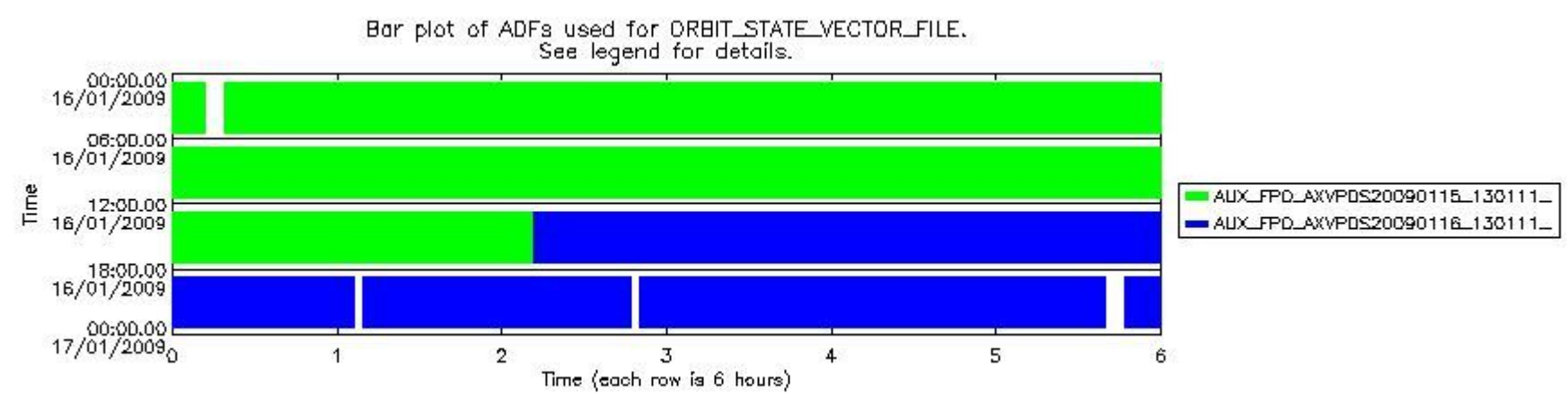
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

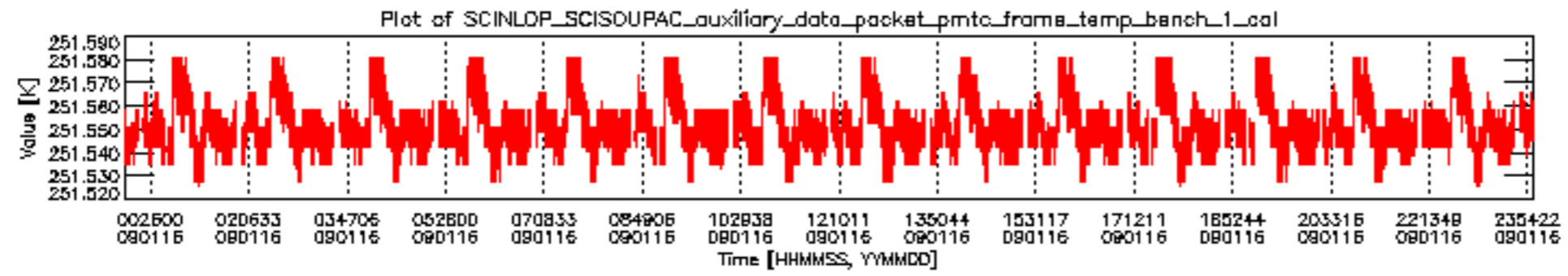
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090115_130111_20090114_195552_20090124_212204
2	AUX_FPO_AXVPDS20090116_130111_20090115_192414_20090125_205027



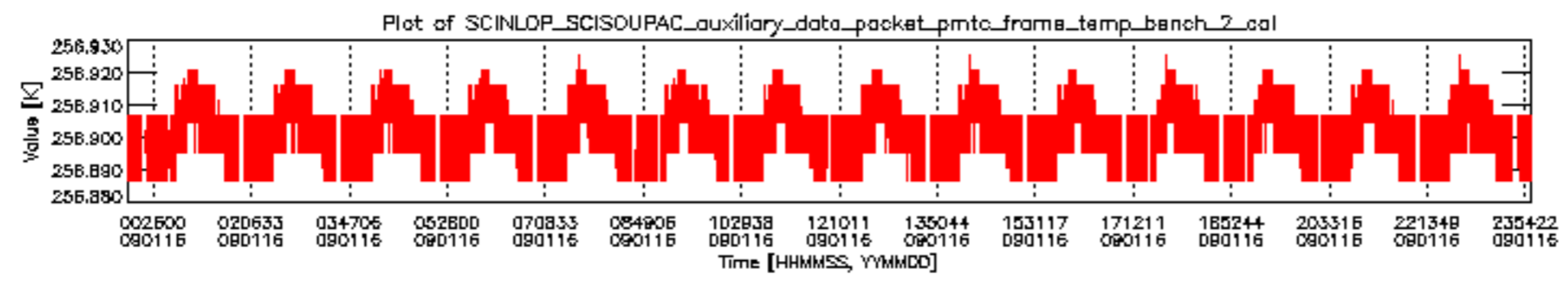
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090116\_7.PNG

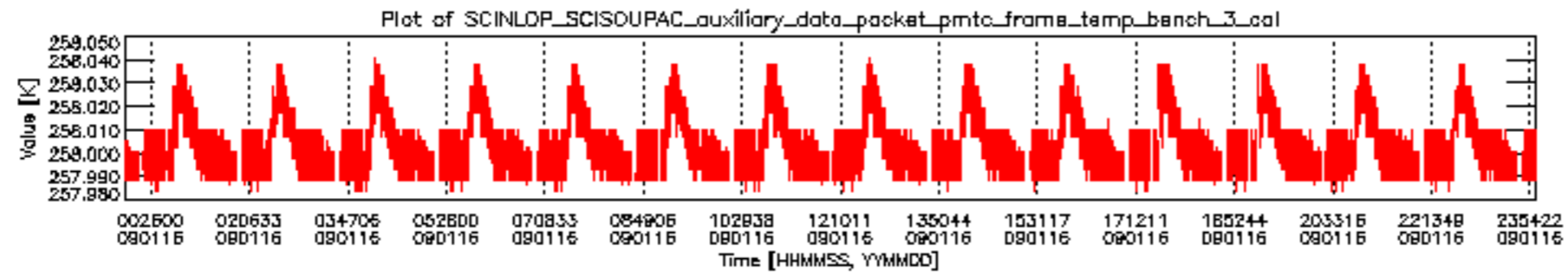


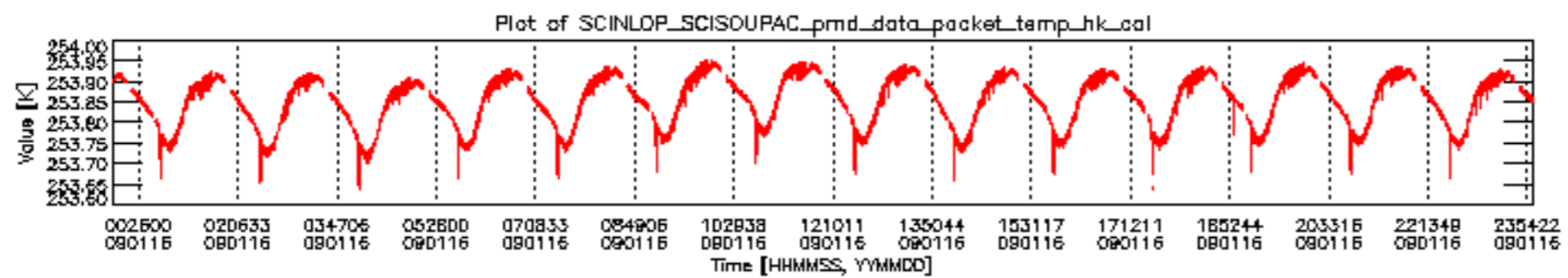
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090116\_8.PNG

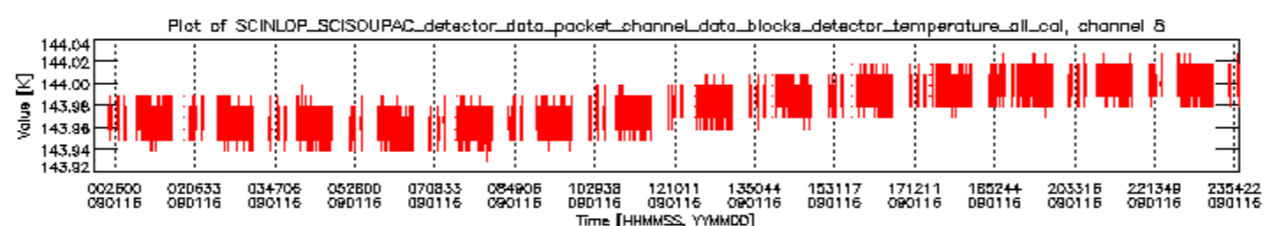
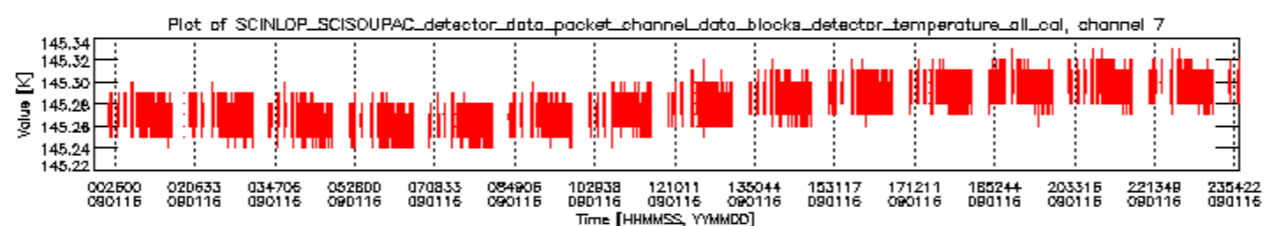
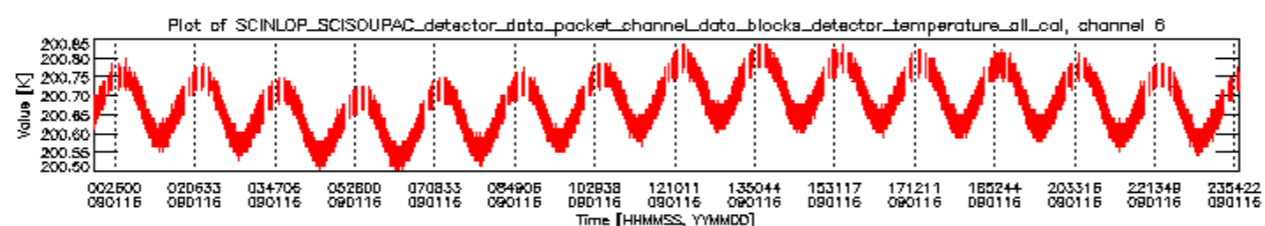
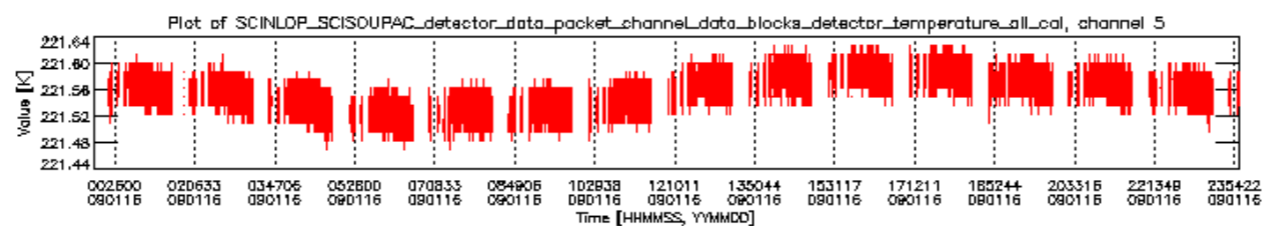
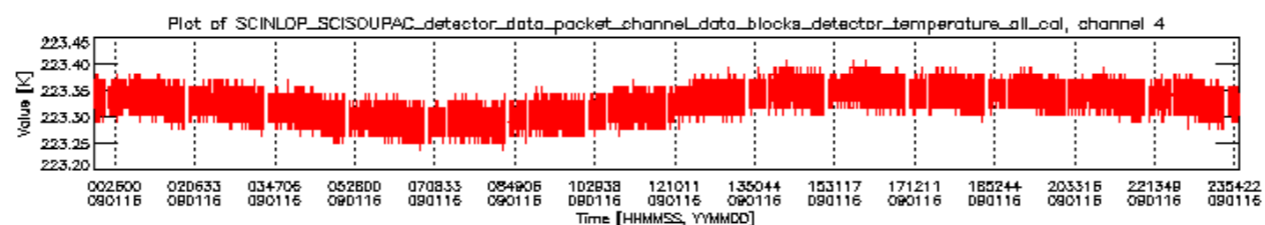
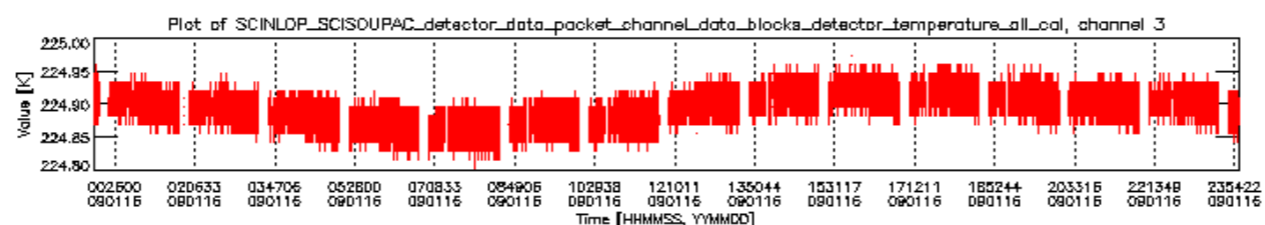
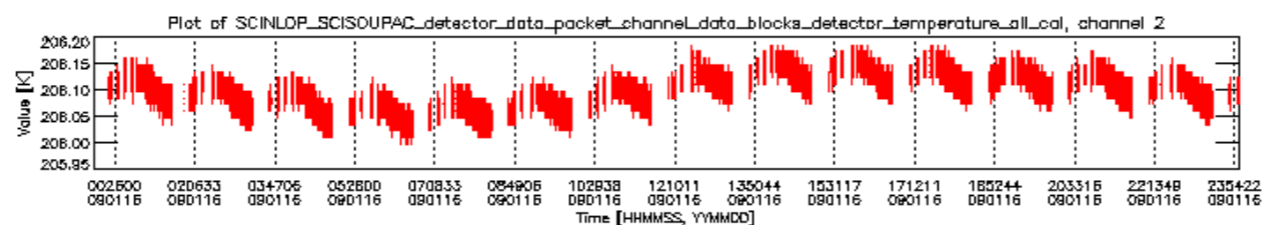
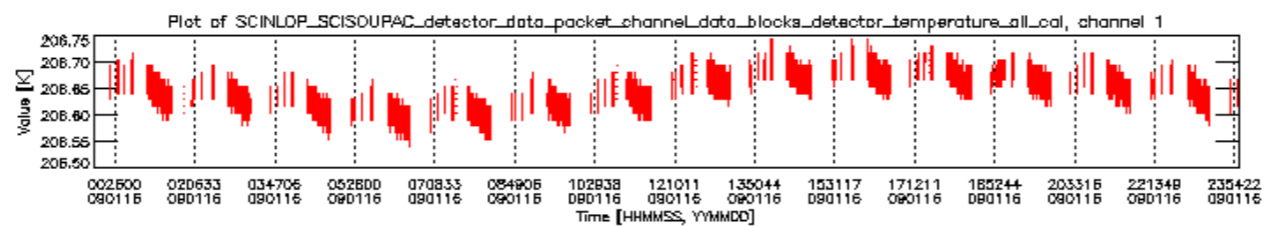






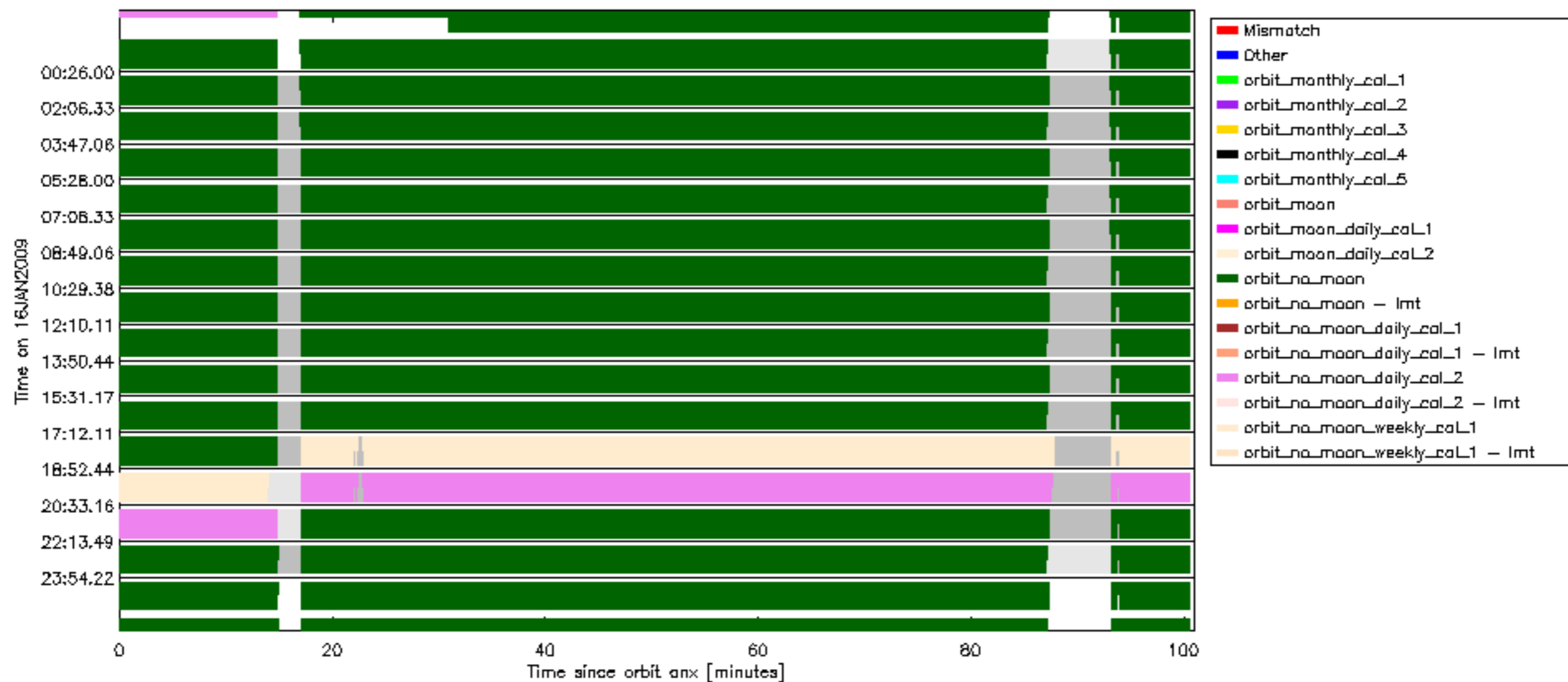


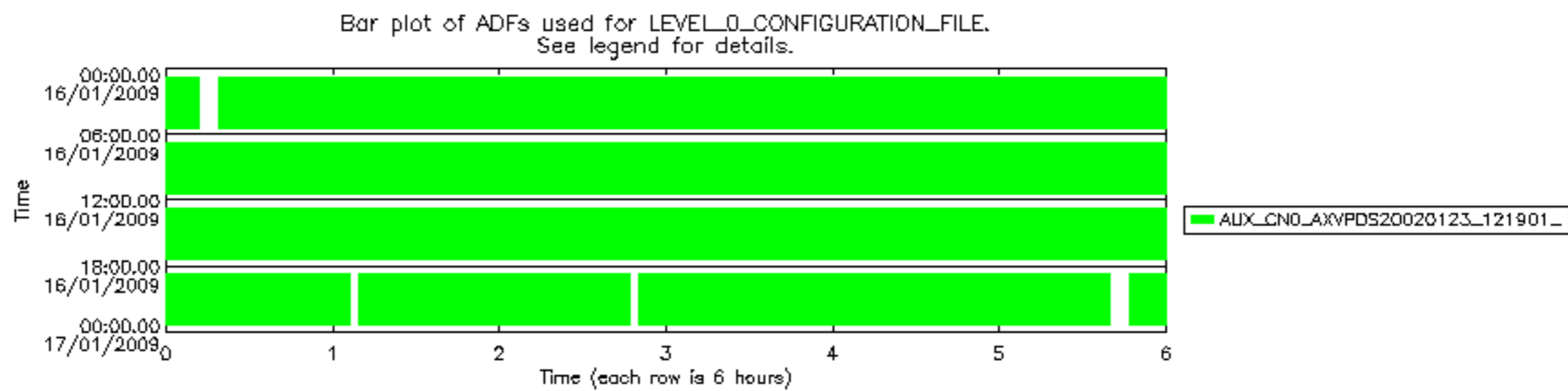






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 16JAN2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

