

# 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	02FEB2009 04:29:13
Data source version	KSPT_L0/4303-N
Processing scope for products	29JAN2009 00:00:00 to 30JAN2009 00:00:00
Start time of first product within scope	28JAN2009 22:21:19
Stop time of last product within scope	30JAN2009 01:10:47
Total number of level 0 products	17
Number of level 0 products with errors	0

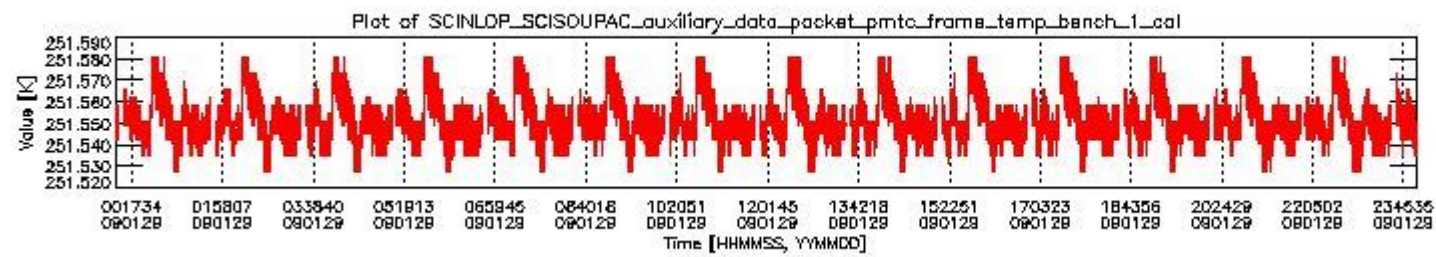
#### 0.1.2 Summary per product

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

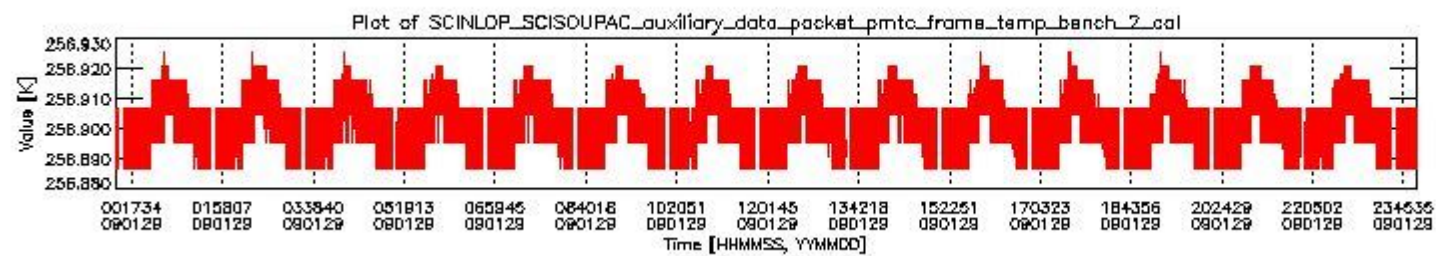
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090128_222119_000060232076_00029_36155_8382.N1	28JAN2009 22:21:19	29JAN2009 00:01:41	0	0	0	0	0
1	SCI_NL__OPNPDE20090129_000912_000055982076_00030_36156_8383.N1	29JAN2009 00:09:12	29JAN2009 01:42:30	0	0	0	0	0
2	SCI_NL__OPNPDE20090129_014230_000044102076_00031_36157_8384.N1	29JAN2009 01:42:30	29JAN2009 02:56:00	0	0	0	0	0
3	SCI_NL__OPNPDE20090129_025452_000062972076_00032_36158_8385.N1	29JAN2009 02:54:52	29JAN2009 04:39:49	0	0	0	0	0
4	SCI_NL__OPNPDE20090129_043840_000060362076_00033_36159_8386.N1	29JAN2009 04:38:40	29JAN2009 06:19:16	0	0	0	0	0
5	SCI_NL__OPNPDK20090129_061916_000040452076_00034_36160_0576.N1	29JAN2009 06:19:16	29JAN2009 07:26:40	0	0	0	0	0
6	SCI_NL__OPNPDK20090129_072436_000063402076_00035_36161_0577.N1	29JAN2009 07:24:36	29JAN2009 09:10:16	0	0	0	0	0
7	SCI_NL__OPNPDK20090129_090812_000058552076_00036_36162_0578.N1	29JAN2009 09:08:12	29JAN2009 10:45:47	0	0	0	0	0
8	SCI_NL__OPNPDK20090129_104355_000062032076_00037_36163_0579.N1	29JAN2009 10:43:55	29JAN2009 12:27:18	0	0	0	0	0
9	SCI_NL__OPNPDK20090129_122622_000059802076_00038_36164_0580.N1	29JAN2009 12:26:22	29JAN2009 14:06:02	0	0	0	0	0
10	SCI_NL__OPNPDK20090129_140410_000058982076_00039_36165_0581.N1	29JAN2009 14:04:10	29JAN2009 15:42:28	0	0	0	0	0
11	SCI_NL__OPNPDK20090129_154228_000060362076_00040_36166_0582.N1	29JAN2009 15:42:28	29JAN2009 17:23:04	0	0	0	0	0
12	SCI_NL__OPNPDK20090129_172207_000059242076_00041_36167_0583.N1	29JAN2009 17:22:07	29JAN2009 19:00:51	0	0	0	0	0
13	SCI_NL__OPNPDK20090129_185955_000061472076_00042_36168_0584.N1	29JAN2009 18:59:55	29JAN2009 20:42:22	0	0	0	0	0
14	SCI_NL__OPNPDE20090129_204126_000040902076_00043_36169_8387.N1	29JAN2009 20:41:26	29JAN2009 21:49:36	0	0	0	0	0
15	SCI_NL__OPNPDE20090129_215655_000055842076_00043_36169_8388.N1	29JAN2009 21:56:55	29JAN2009 23:29:59	0	0	0	0	0
16	SCI_NL__OPNPDE20090129_233730_000055972076_00044_36170_8389.N1	29JAN2009 23:37:30	30JAN2009 01:10:47	0	0	0	0	0

### 0.2 Product Quality Indicators

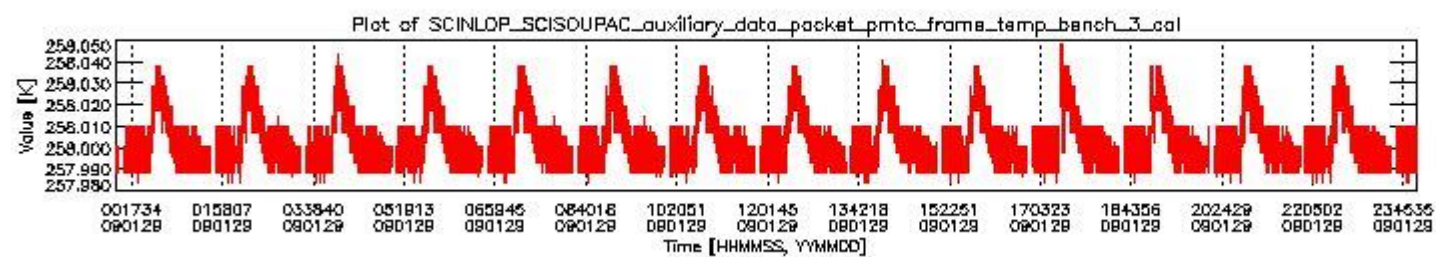
This section shows information about product quality, currently temperatures.



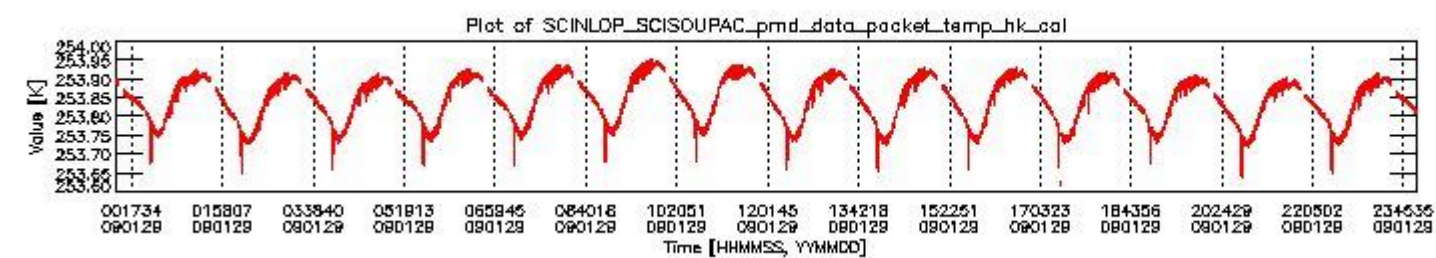
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090129\_0.PNG



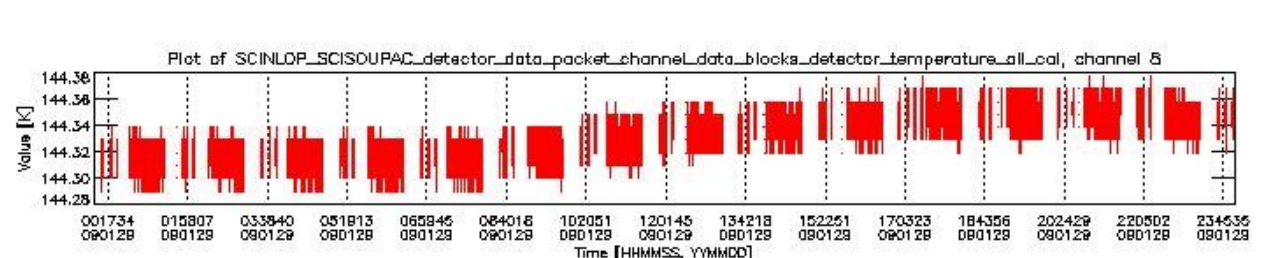
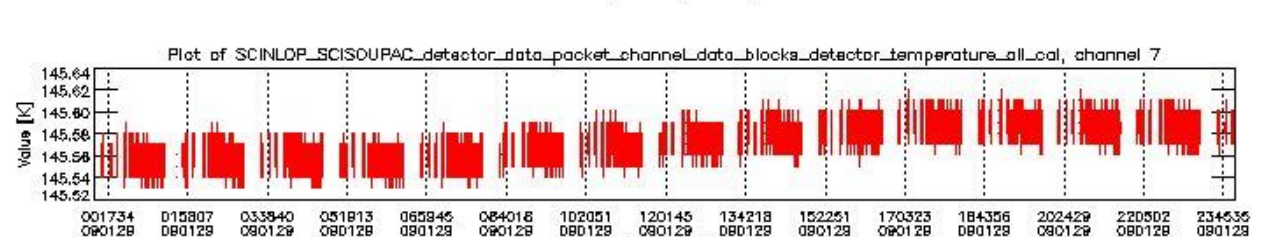
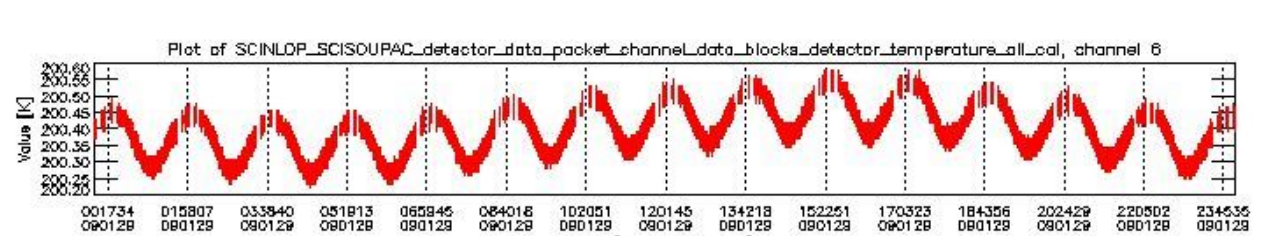
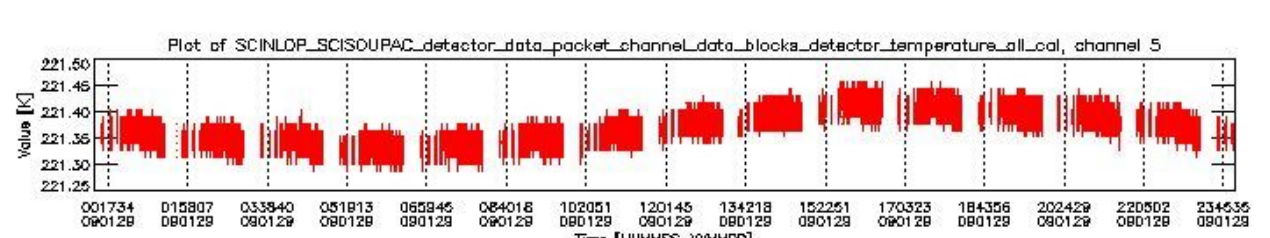
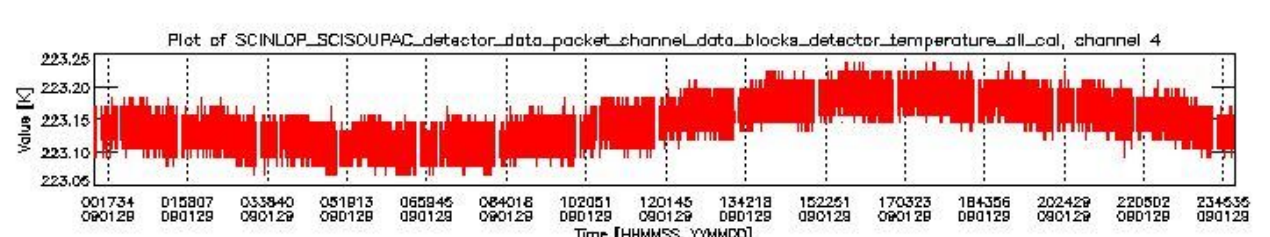
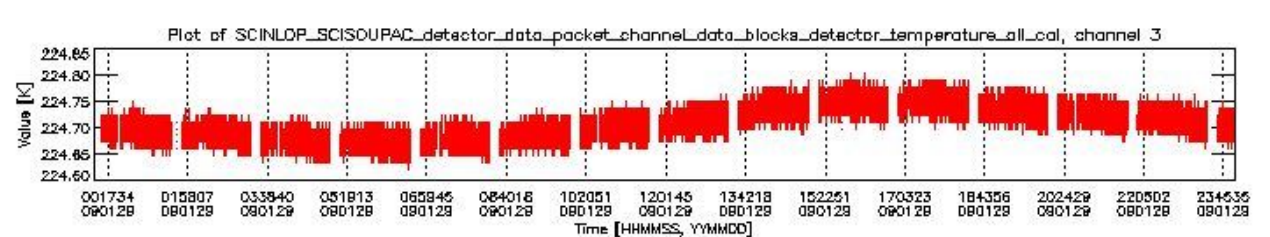
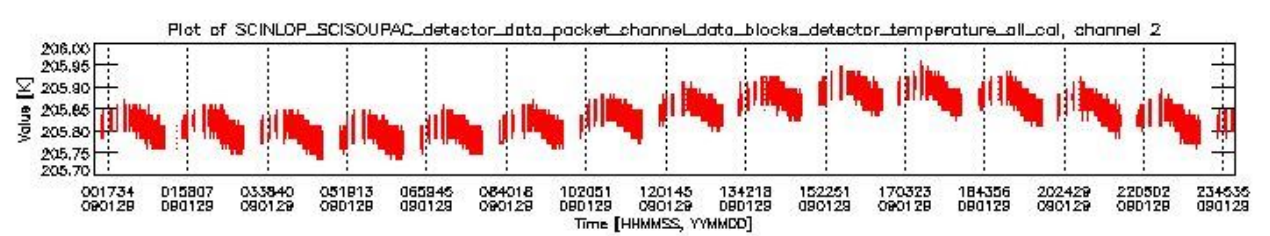
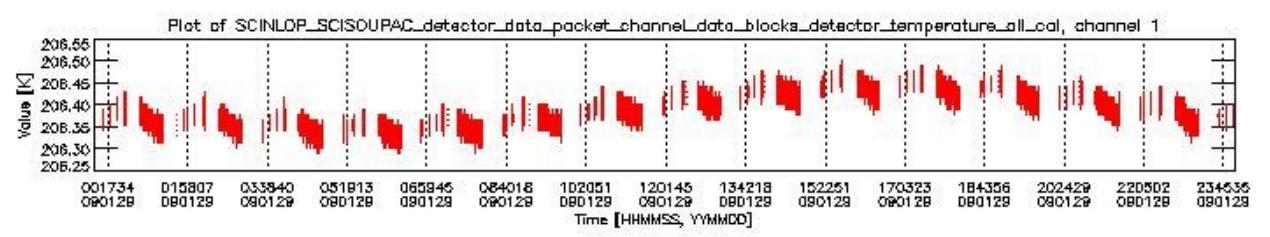
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090129\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090129\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090129\_3.PNG

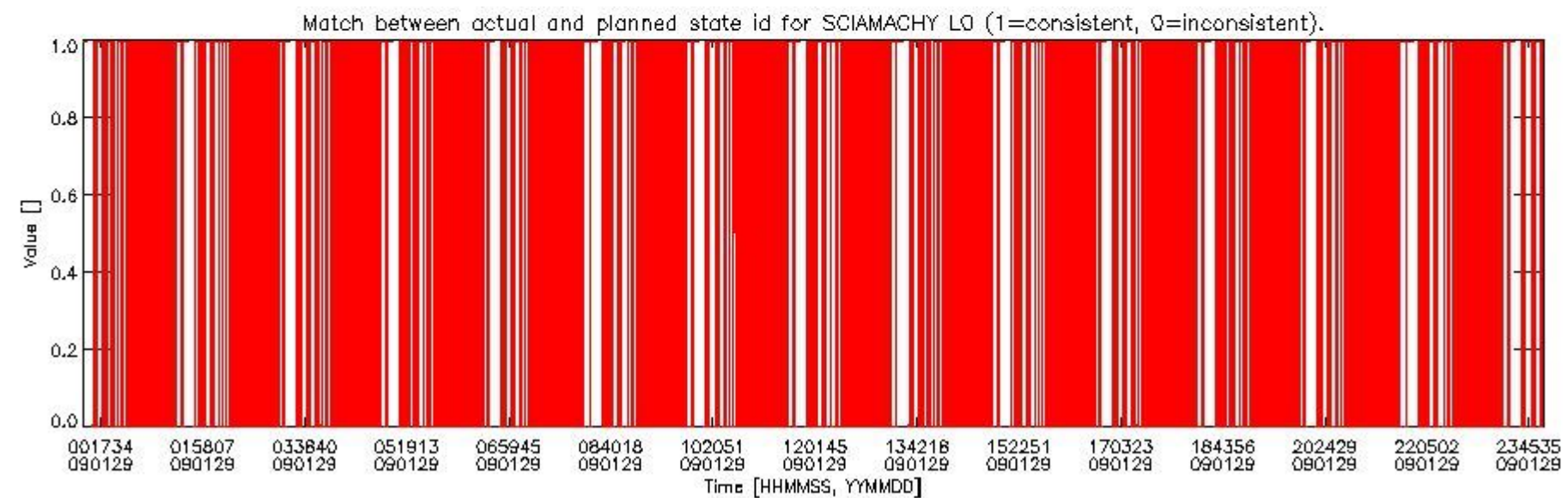
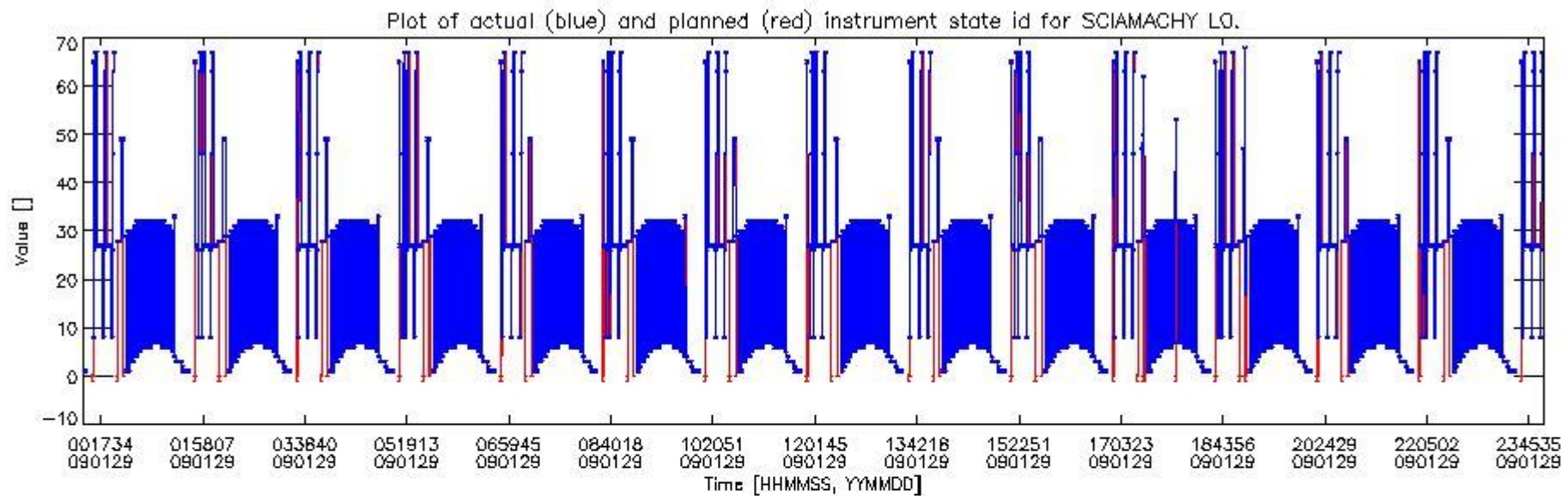


### 0.3 State monitoring

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: **59878**

#	Actual time	Actual value	Planned time	Planned value
0	29JAN2009 00:09:12.352023	65	29JAN2009 00:09:12.352023	0
1	29JAN2009 00:09:12.977045	65	29JAN2009 00:09:12.977045	0
2	29JAN2009 00:09:13.477022	65	29JAN2009 00:09:13.477022	0
3	29JAN2009 00:09:13.977039	65	29JAN2009 00:09:13.977039	0
4	29JAN2009 00:09:14.477057	65	29JAN2009 00:09:14.477057	0
5	29JAN2009 00:09:14.977034	65	29JAN2009 00:09:14.977034	0
6	29JAN2009 00:09:15.477051	65	29JAN2009 00:09:15.477051	0
7	29JAN2009 00:09:15.977029	65	29JAN2009 00:09:15.977029	0
8	29JAN2009 00:09:16.477046	65	29JAN2009 00:09:16.477046	0
9	29JAN2009 00:09:16.977023	65	29JAN2009 00:09:16.977023	0
10	29JAN2009 00:09:17.352036	65	29JAN2009 00:09:17.352036	0
11	29JAN2009 00:09:17.477041	65	29JAN2009 00:09:17.477041	0
12	29JAN2009 00:09:17.977018	65	29JAN2009 00:09:17.977018	0
13	29JAN2009 00:09:18.477035	65	29JAN2009 00:09:18.477035	0
14	29JAN2009 00:09:18.977053	65	29JAN2009 00:09:18.977053	0
15	29JAN2009 00:09:19.477030	65	29JAN2009 00:09:19.477030	0
16	29JAN2009 00:09:19.977047	65	29JAN2009 00:09:19.977047	0
17	29JAN2009 00:09:20.477024	65	29JAN2009 00:09:20.477024	0
18	29JAN2009 00:09:20.977042	65	29JAN2009 00:09:20.977042	0
19	29JAN2009 00:09:21.477019	65	29JAN2009 00:09:21.477019	0
	...	...	...	...

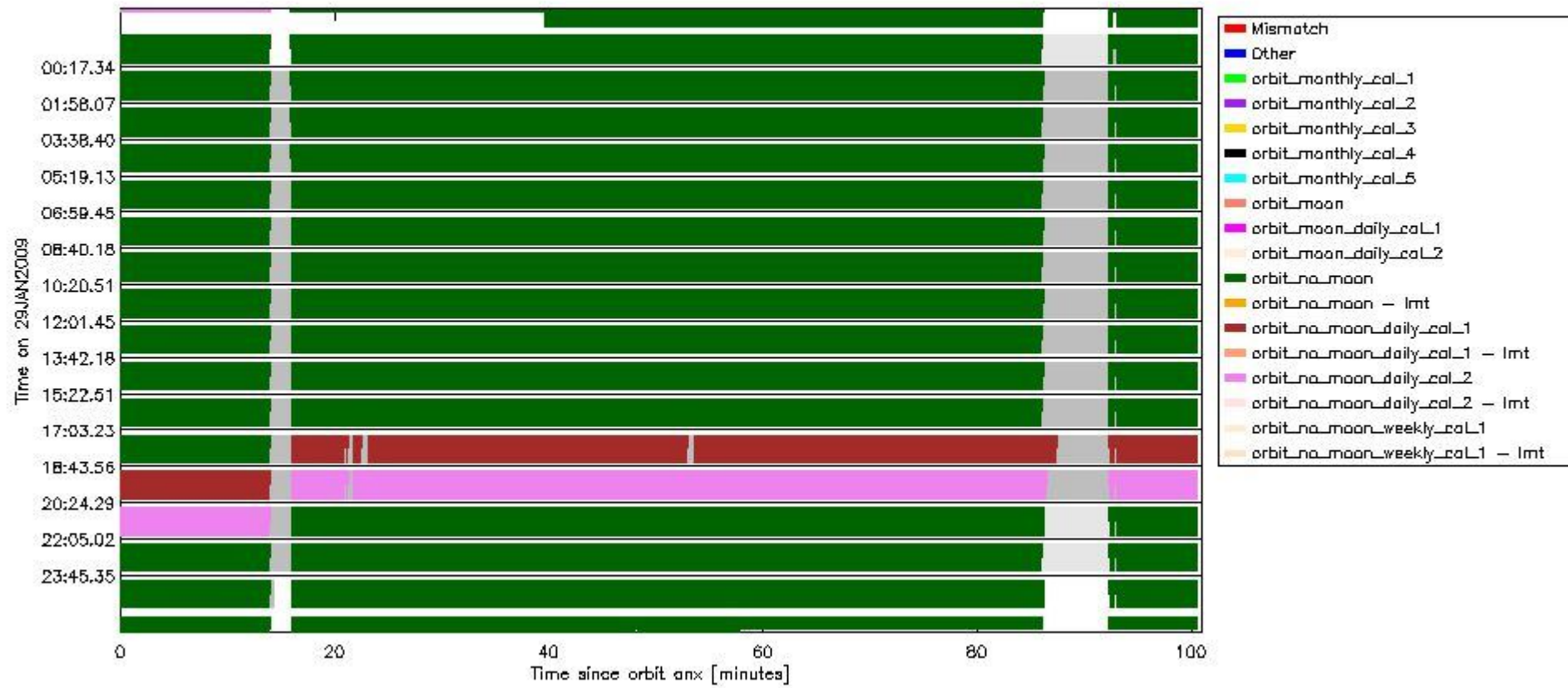


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090129\_5.PNG

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 29JAN2009.  
 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\_20090129\_6.PNG

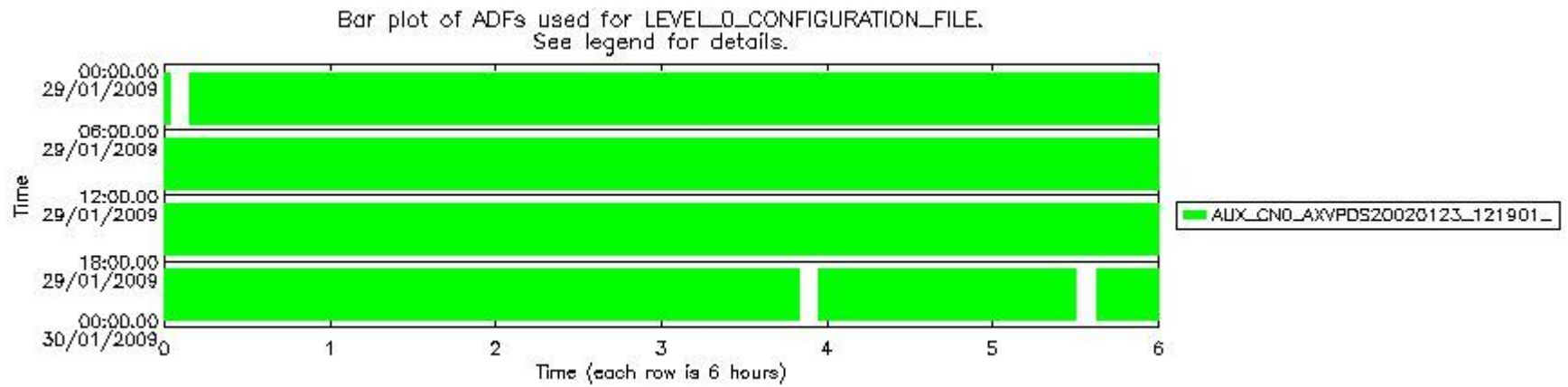
## 0.4 ADF monitoring

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

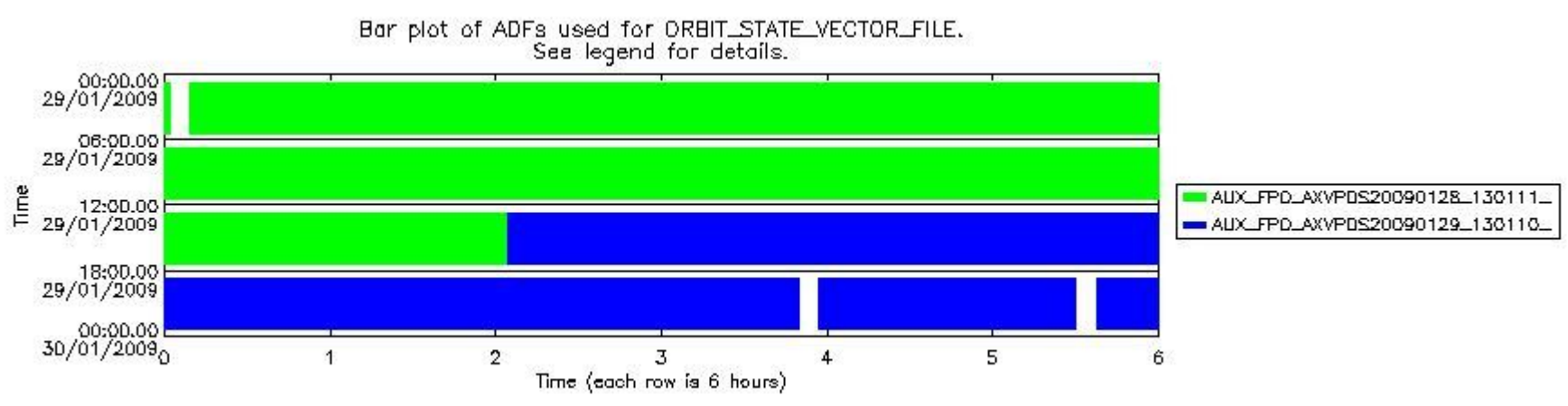
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

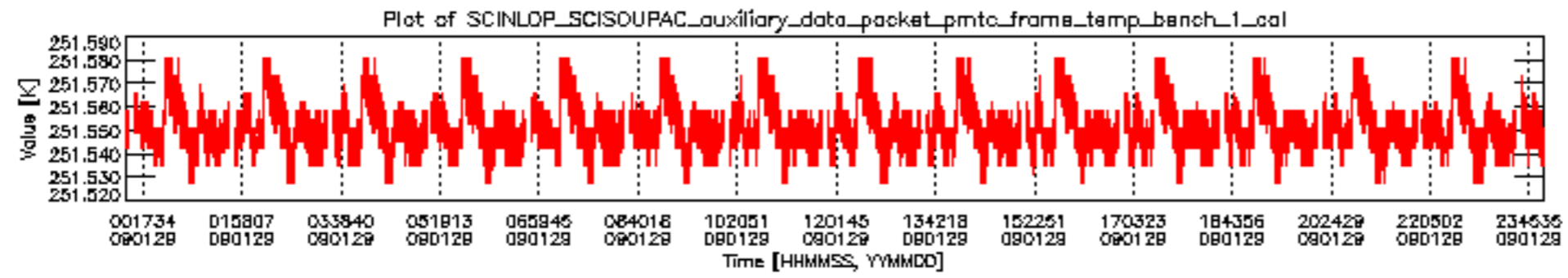
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090128_130111_20090127_194713_20090206_211327
2	AUX_FPO_AXVPDS20090129_130110_20090128_191536_20090207_204151



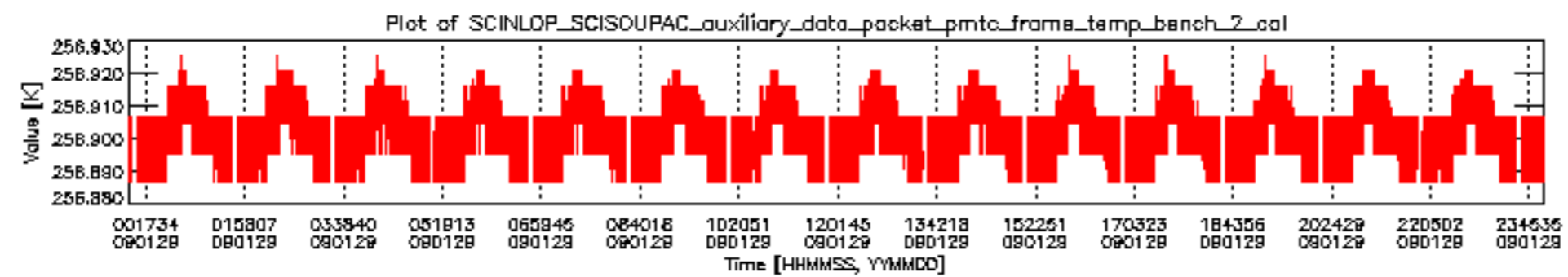
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090129\_7.PNG

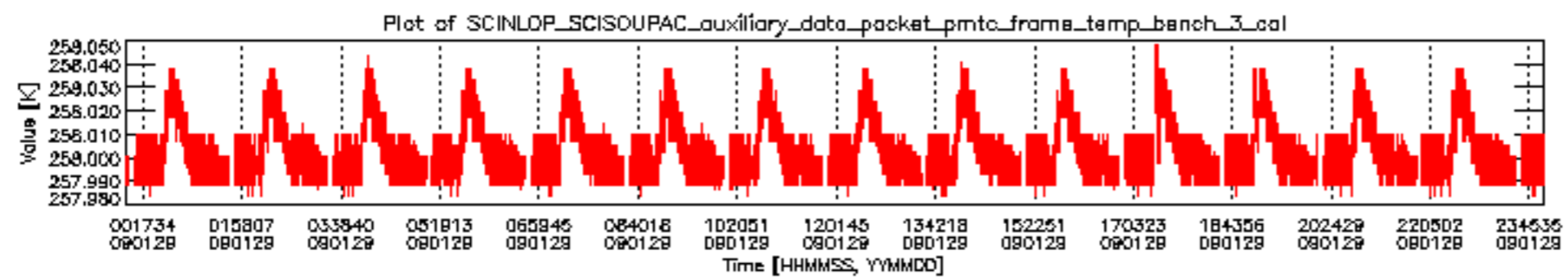


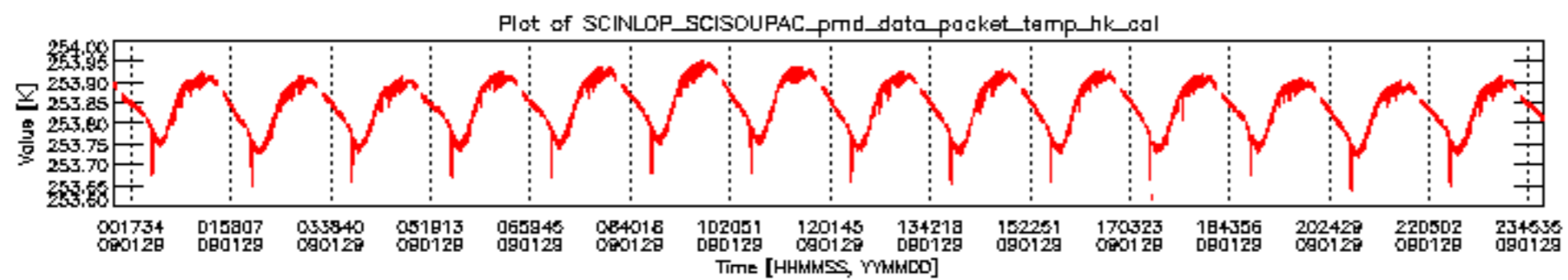
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090129\_8.PNG

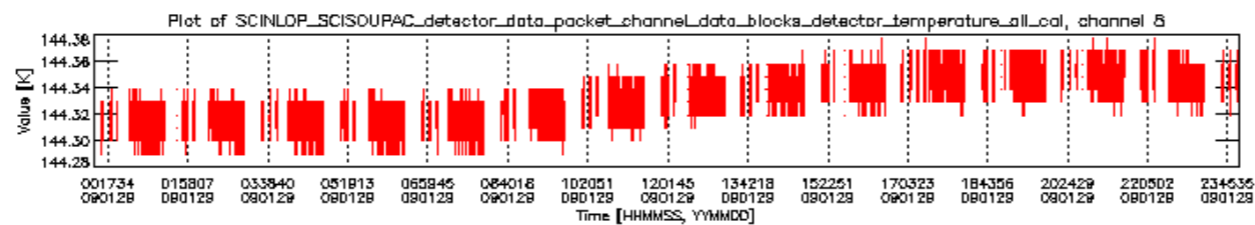
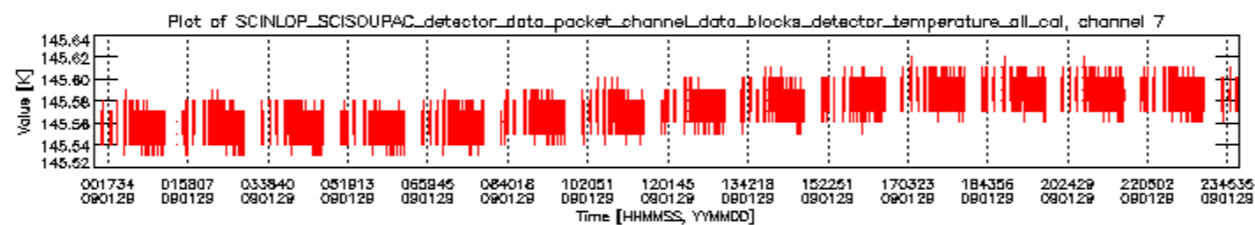
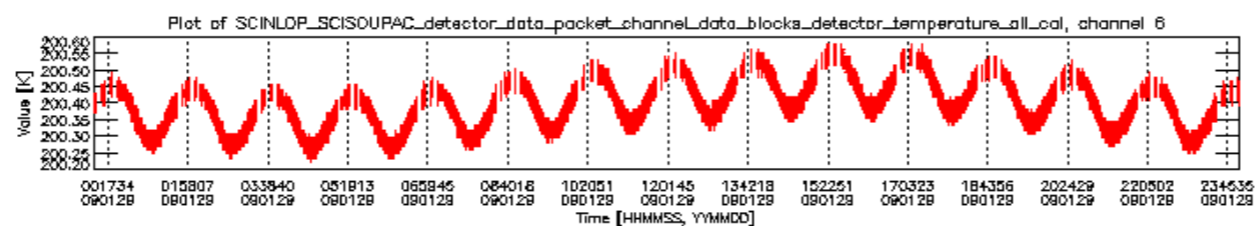
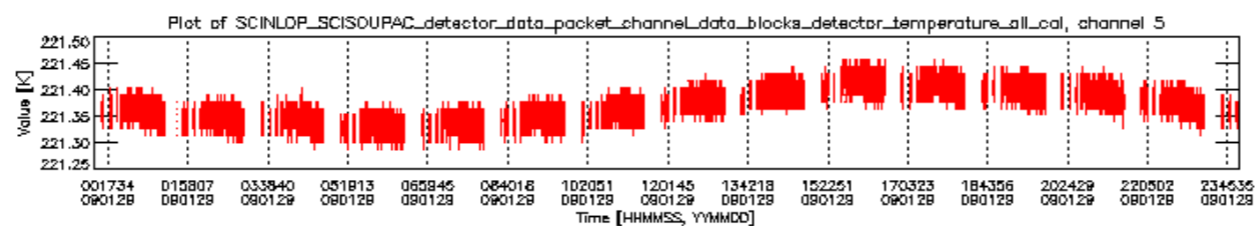
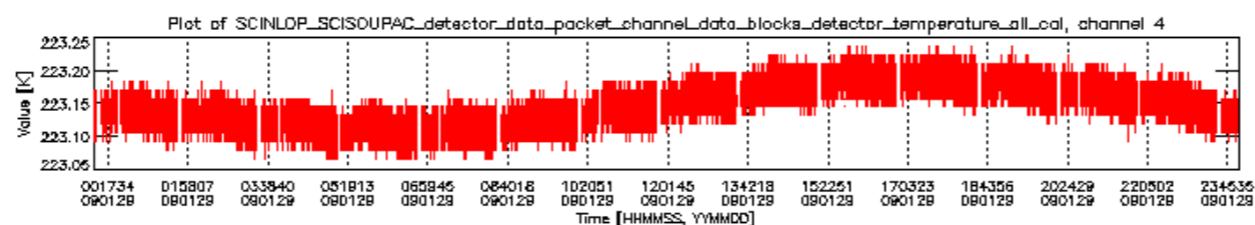
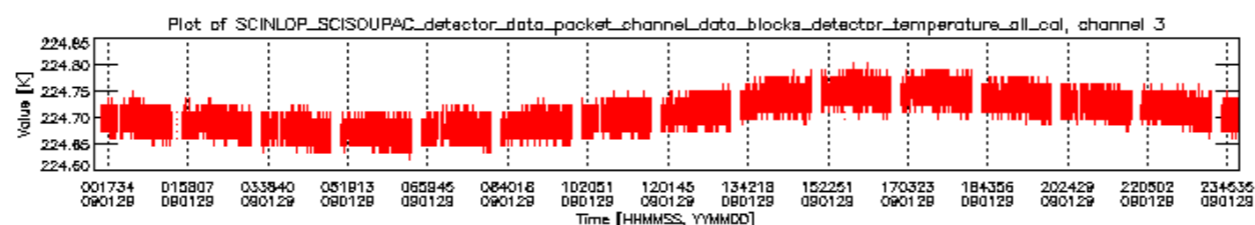
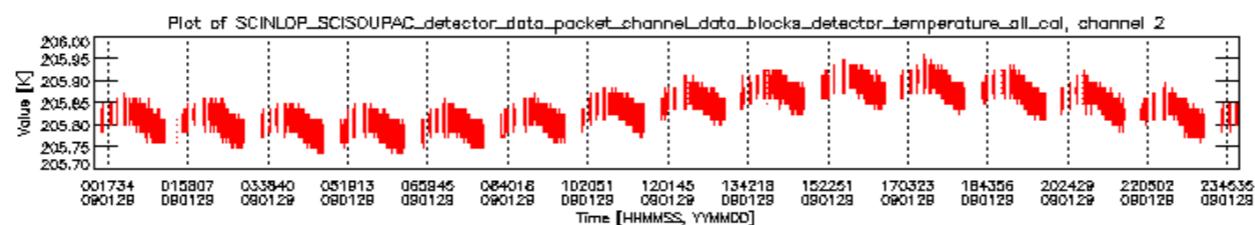
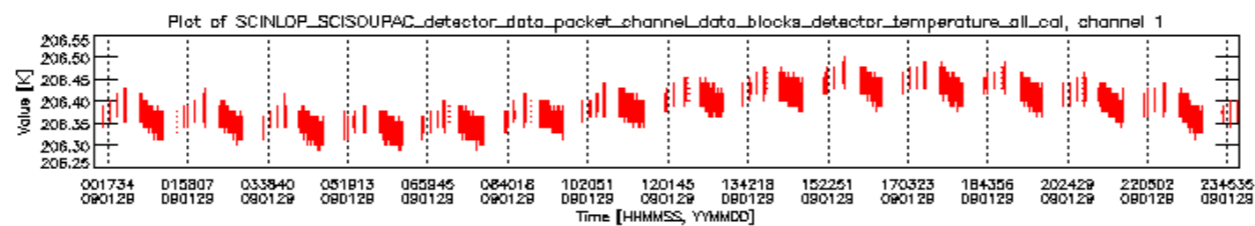






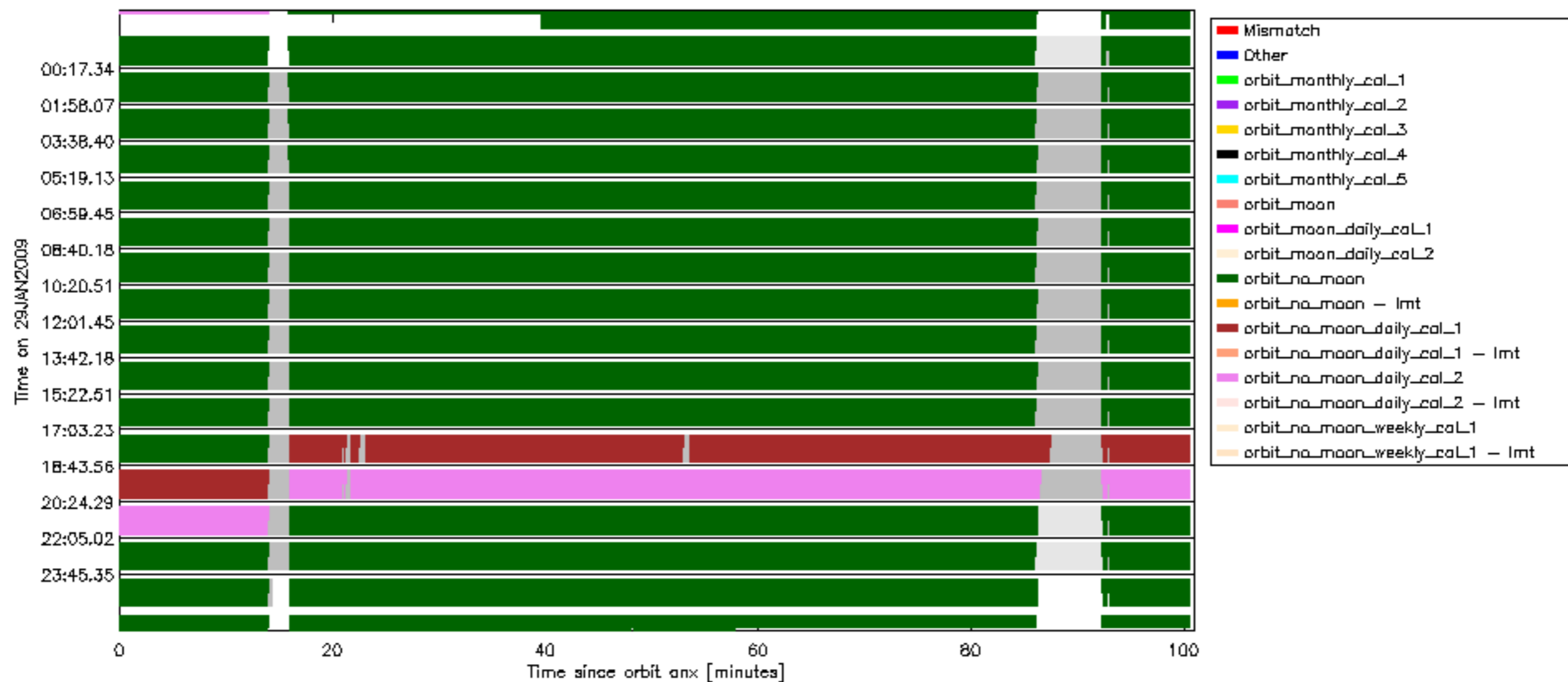


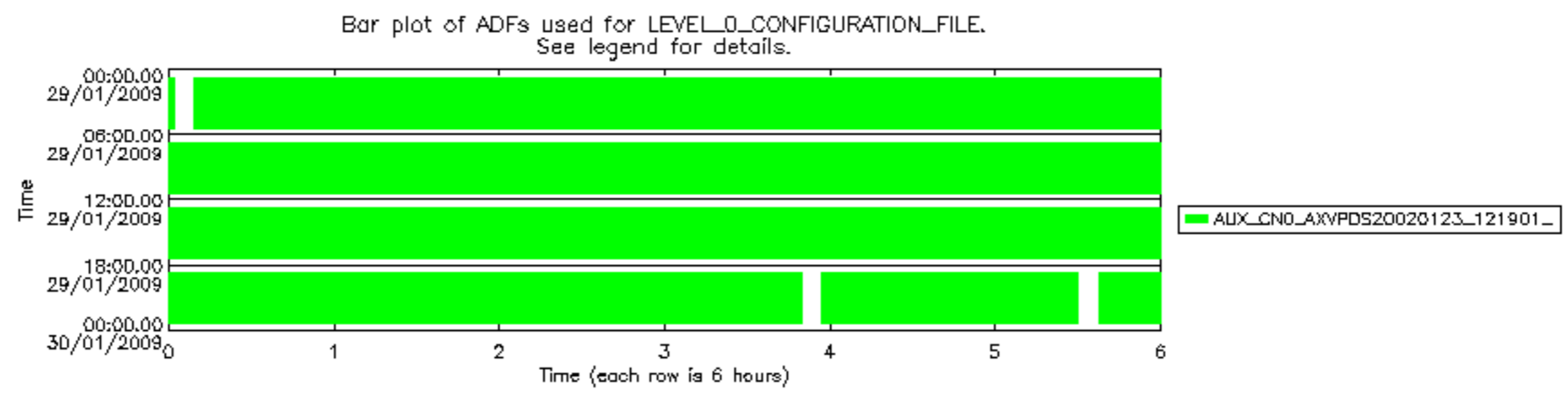






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 29JAN2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

