

## 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	11FEB2008 16:36:44
Data source version	KSPT_L0/4303-N
Processing scope for products	06FEB2008 00:00:00 to 07FEB2008 00:00:00
Start time of first product within scope	05FEB2008 23:19:44
Stop time of last product within scope	07FEB2008 00:21:15
Total number of level 0 products	16
Number of level 0 products with errors	1

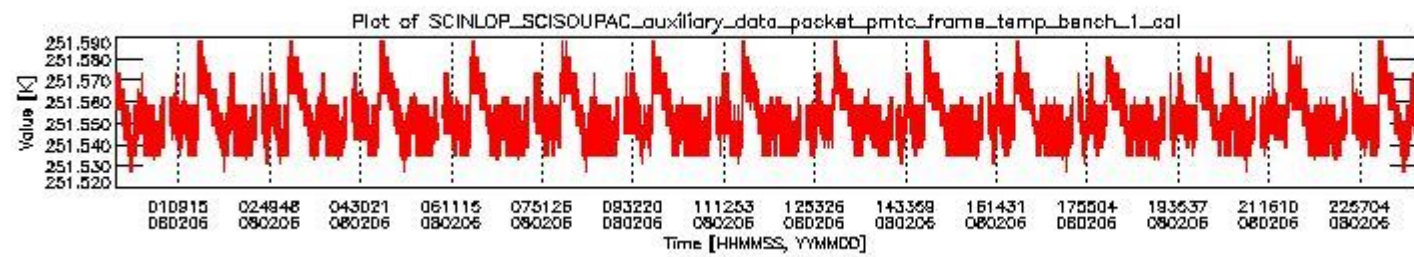
### 0.1.2 Summary per product

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

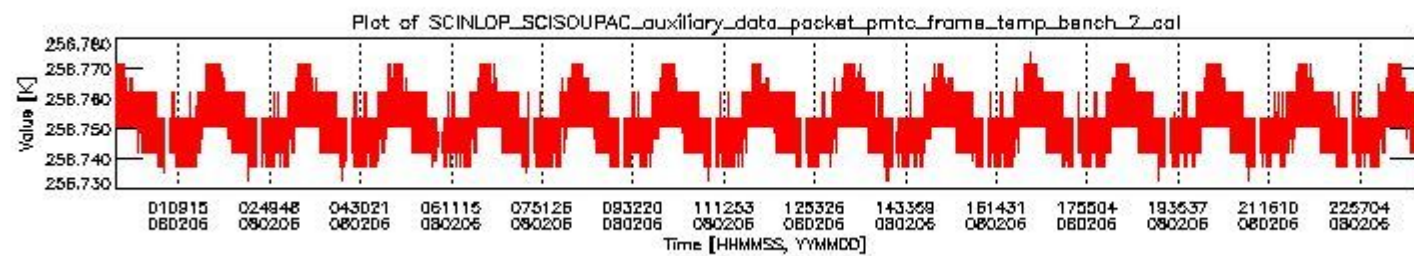
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080205_231944_000055942065_00416_31031_6084.N1	05FEB2008 23:19:44	06FEB2008 00:52:58	0	0	0	0	0
1	SCI_NL__OPNPDE20080206_010020_000043982065_00417_31032_6085.N1	06FEB2008 01:00:20	06FEB2008 02:13:38	0	0	0	0	0
2	SCI_NL__OPNPDE20080206_021338_000057992065_00418_31033_6086.N1	06FEB2008 02:13:38	06FEB2008 03:50:17	0	0	0	0	0
3	SCI_NL__OPNPDE20080206_034908_000061602065_00419_31034_6087.N1	06FEB2008 03:49:08	06FEB2008 05:31:48	0	0	0	0	0
4	SCI_NL__OPNPDE20080206_053040_000061042065_00420_31035_6088.N1	06FEB2008 05:30:40	06FEB2008 07:12:24	0	0	0	0	0
5	SCI_NL__OPNPDK20080206_071128_000040322065_00421_31036_7319.N1	06FEB2008 07:11:28	06FEB2008 08:18:40	0	0	0	0	0
6	SCI_NL__OPNPDK20080206_081744_000061602065_00422_31037_7320.N1	06FEB2008 08:17:44	06FEB2008 10:00:24	0	0	0	0	0
7	SCI_NL__OPNPDK20080206_100024_000059672065_00423_31038_7321.N1	06FEB2008 10:00:24	06FEB2008 11:39:51	0	0	0	0	0
8	SCI_NL__OPNPDK20080206_113855_000059802065_00424_31039_7322.N1	06FEB2008 11:38:55	06FEB2008 13:18:34	0	0	0	0	0
9	SCI_NL__OPNPDK20080206_131726_000059802065_00425_31040_7323.N1	06FEB2008 13:17:26	06FEB2008 14:57:06	0	0	0	0	0
10	SCI_NL__OPNPDK20080206_145514_000058982065_00426_31041_7324.N1	06FEB2008 14:55:14	06FEB2008 16:33:31	1	1	1	0	0
11	SCI_NL__OPNPDK20080206_163331_000059232065_00427_31042_7325.N1	06FEB2008 16:33:31	06FEB2008 18:12:14	0	0	0	0	0
12	SCI_NL__OPNPDK20080206_181022_000060362065_00428_31043_7326.N1	06FEB2008 18:10:22	06FEB2008 19:50:58	0	0	0	0	0
13	SCI_NL__OPNPDE20080206_195058_000040382065_00429_31044_6089.N1	06FEB2008 19:50:58	06FEB2008 20:58:16	0	0	0	0	0
14	SCI_NL__OPNPDE20080206_205708_000061992065_00429_31044_6090.N1	06FEB2008 20:57:08	06FEB2008 22:40:27	0	0	0	0	0
15	SCI_NL__OPNPDE20080206_224801_000055942065_00430_31045_6091.N1	06FEB2008 22:48:01	07FEB2008 00:21:15	0	0	0	0	0

## 0.2 Product Quality Indicators

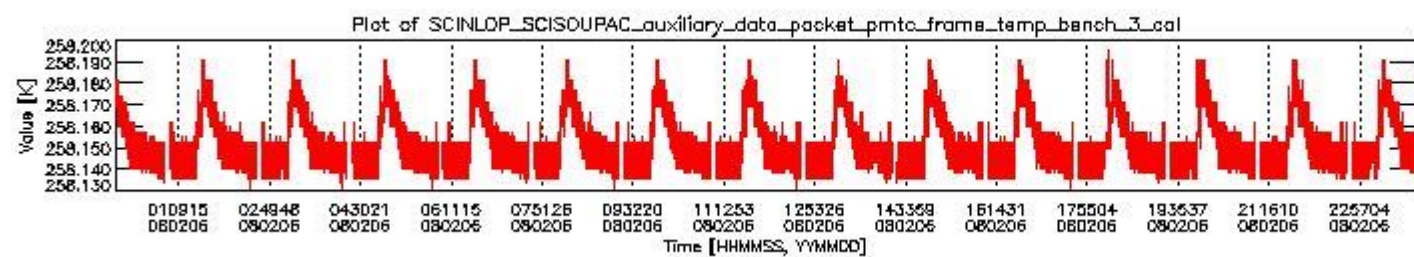
This section shows information about product quality, currently temperatures.



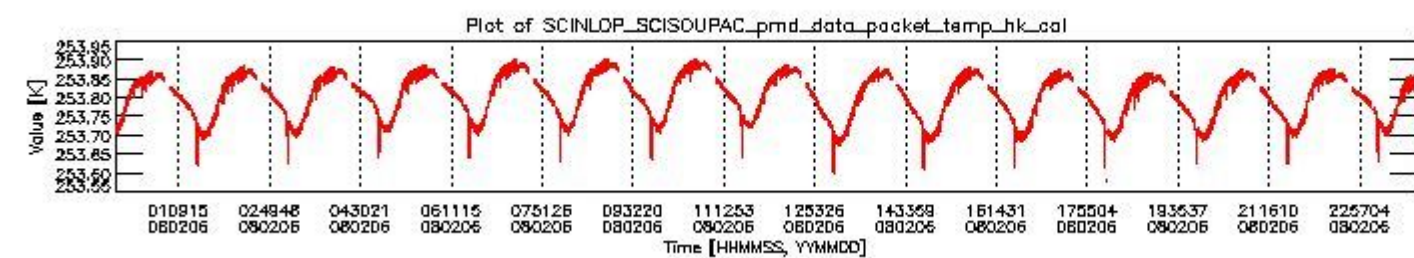
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080206\_0.PNG



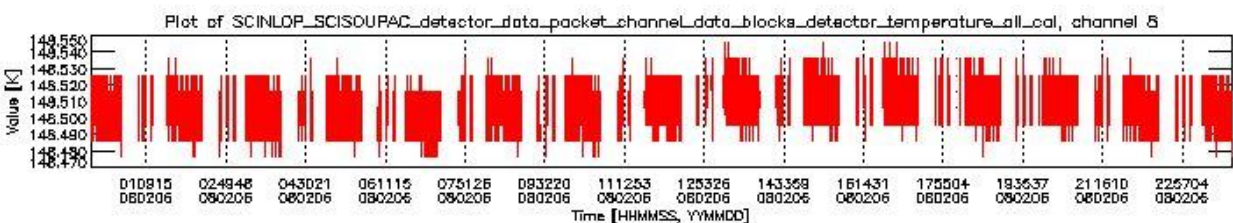
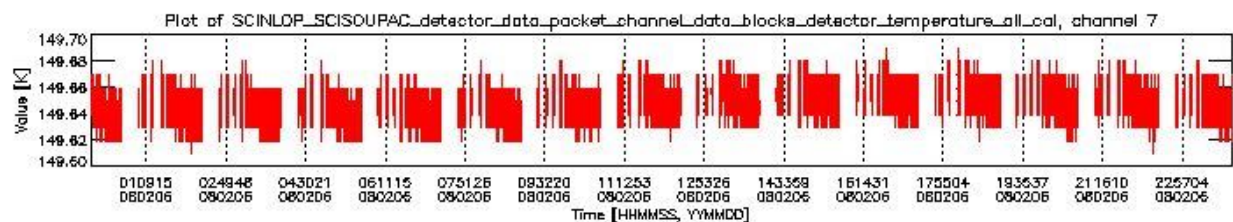
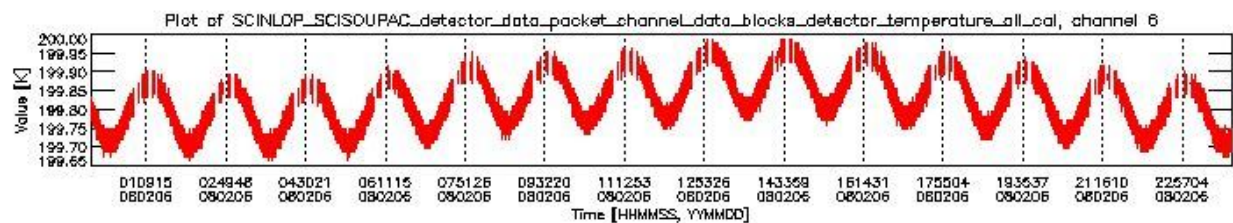
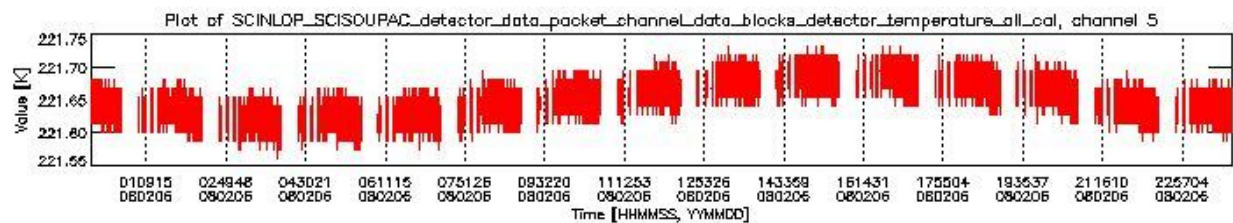
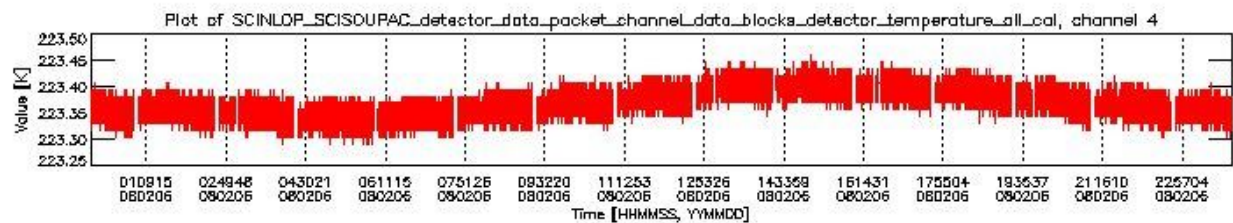
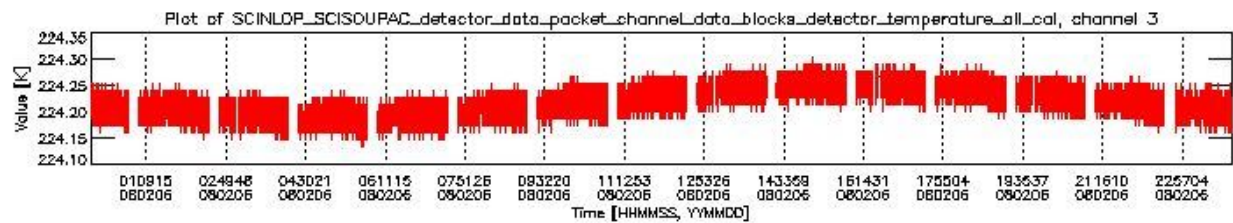
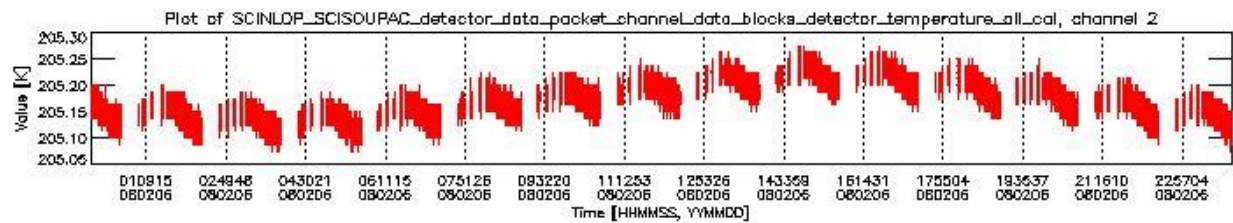
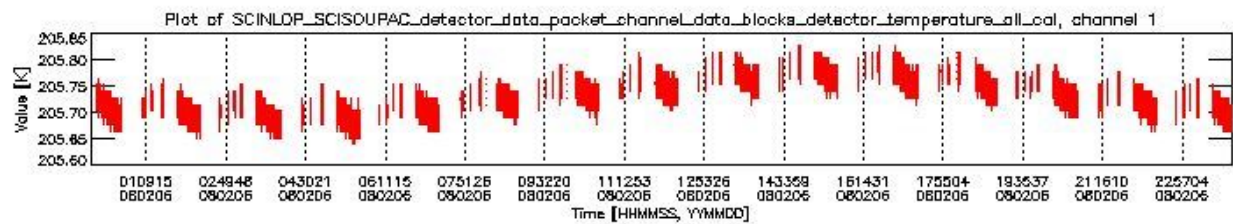
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080206\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080206\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080206\_3.PNG

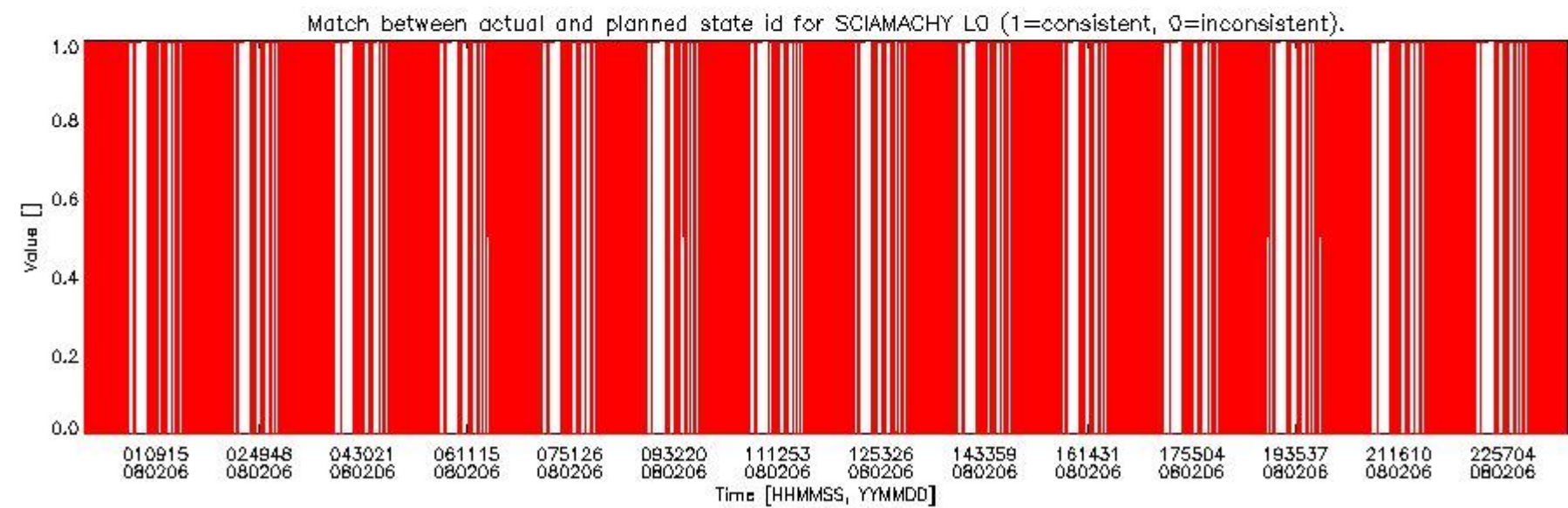
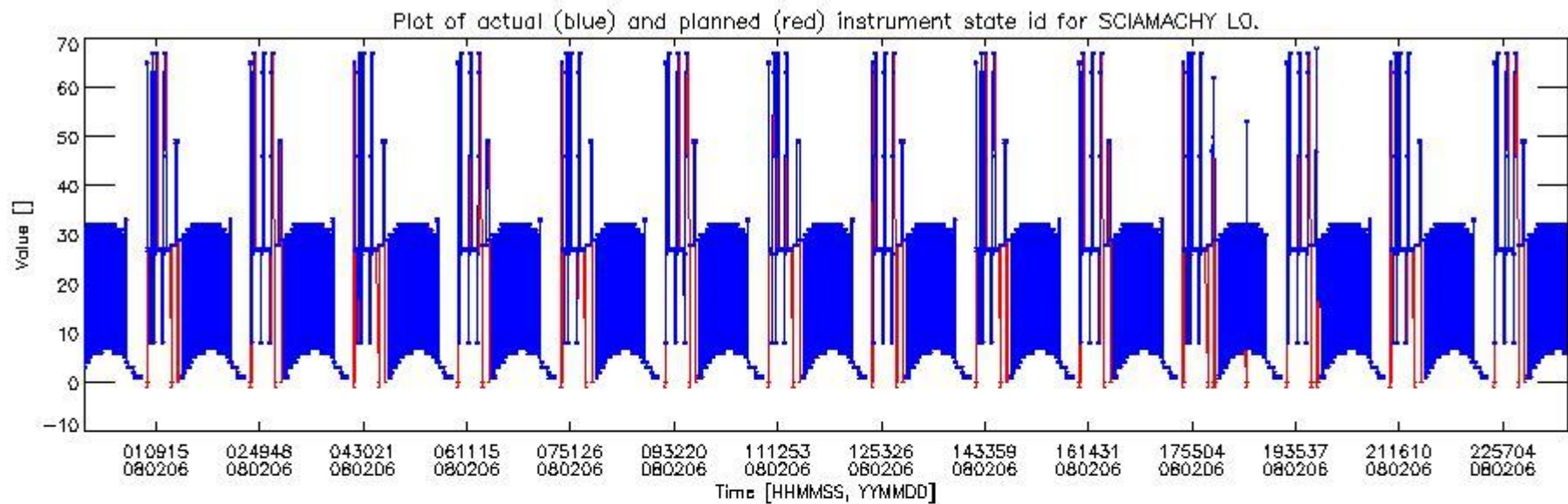


### 0.3 State monitoring

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: **39193**

#	Actual time	Actual value	Planned time	Planned value
0	06FEB2008 00:00:04.564731	31	06FEB2008 00:00:04.564731	3
1	06FEB2008 00:00:05.189712	31	06FEB2008 00:00:05.189712	3
2	06FEB2008 00:00:05.564725	31	06FEB2008 00:00:05.564725	3
3	06FEB2008 00:00:05.939738	31	06FEB2008 00:00:05.939738	3
4	06FEB2008 00:00:06.502238	31	06FEB2008 00:00:06.502238	3
5	06FEB2008 00:00:06.877211	31	06FEB2008 00:00:06.877211	3
6	06FEB2008 00:00:07.252224	31	06FEB2008 00:00:07.252224	3
7	06FEB2008 00:00:07.627237	31	06FEB2008 00:00:07.627237	3
8	06FEB2008 00:00:08.189736	31	06FEB2008 00:00:08.189736	3
9	06FEB2008 00:00:08.564709	31	06FEB2008 00:00:08.564709	3
10	06FEB2008 00:00:08.939722	31	06FEB2008 00:00:08.939722	3
11	06FEB2008 00:00:09.314735	31	06FEB2008 00:00:09.314735	3
12	06FEB2008 00:00:09.564704	31	06FEB2008 00:00:09.564704	3
13	06FEB2008 00:00:09.877235	31	06FEB2008 00:00:09.877235	3
14	06FEB2008 00:00:10.252208	31	06FEB2008 00:00:10.252208	3
15	06FEB2008 00:00:10.627221	31	06FEB2008 00:00:10.627221	3
16	06FEB2008 00:00:11.002234	31	06FEB2008 00:00:11.002234	3
17	06FEB2008 00:00:11.564733	31	06FEB2008 00:00:11.564733	3
18	06FEB2008 00:00:11.939706	31	06FEB2008 00:00:11.939706	3
19	06FEB2008 00:00:12.314719	31	06FEB2008 00:00:12.314719	3
	...	...	...	...

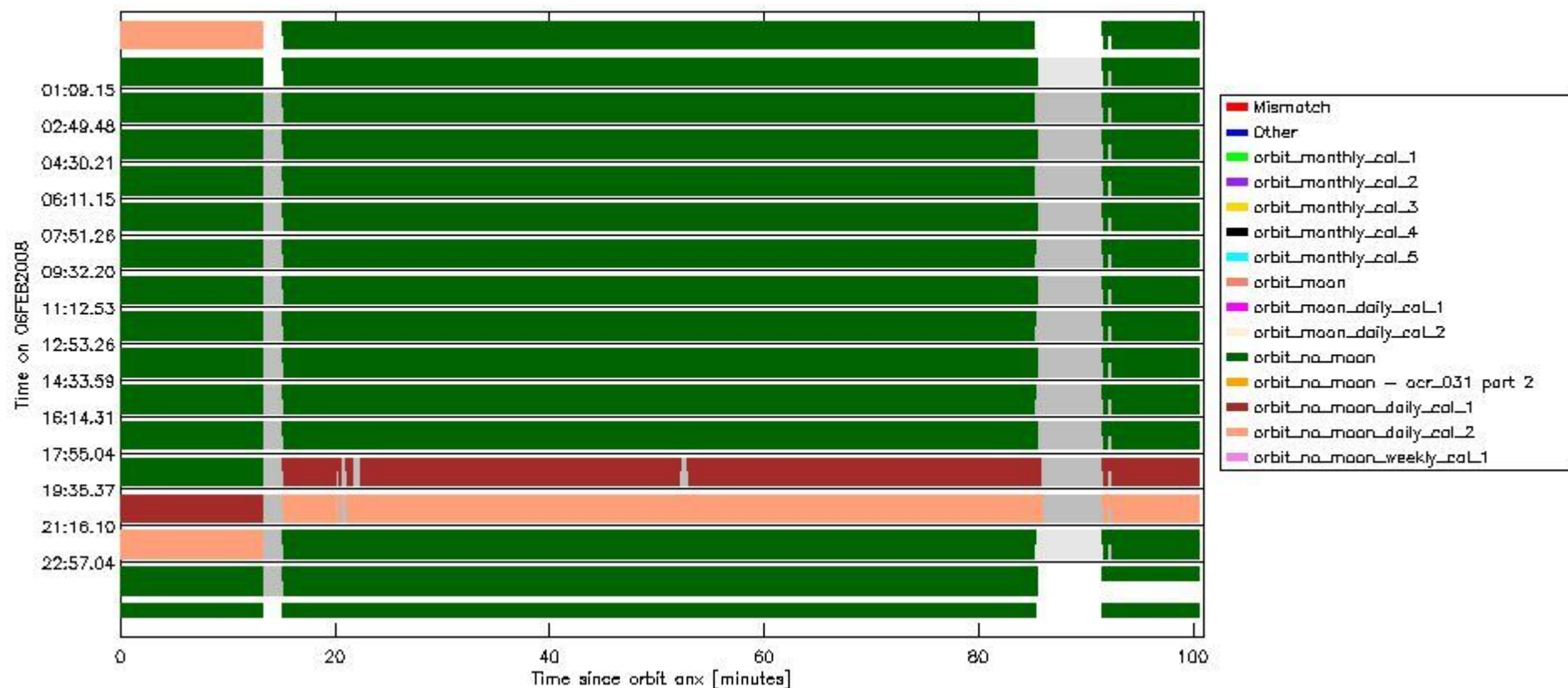


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080206\_5.PNG

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 06FEB2008.  
 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\_20080206\_6.PNG

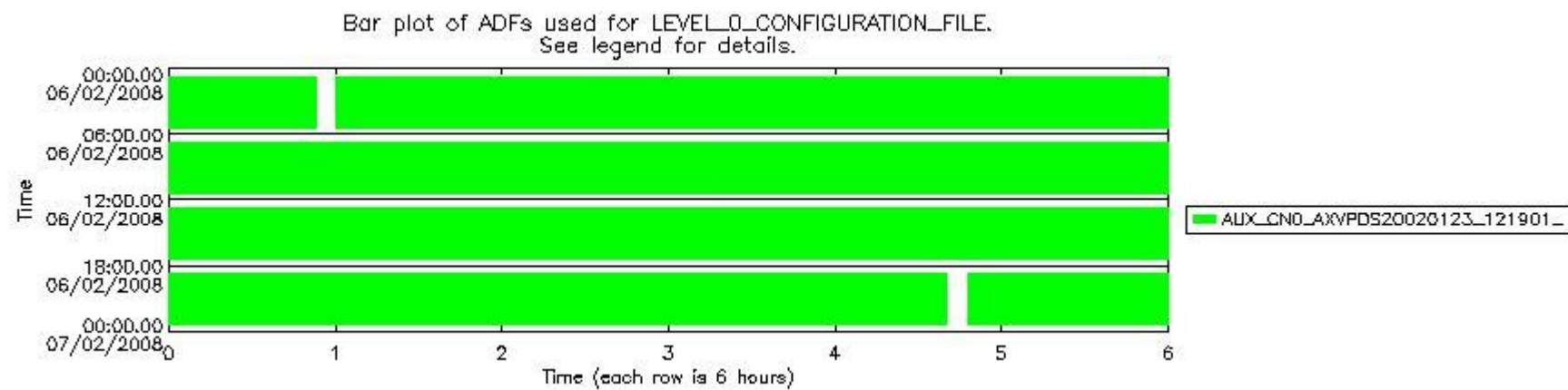
## 0.4 ADF monitoring

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

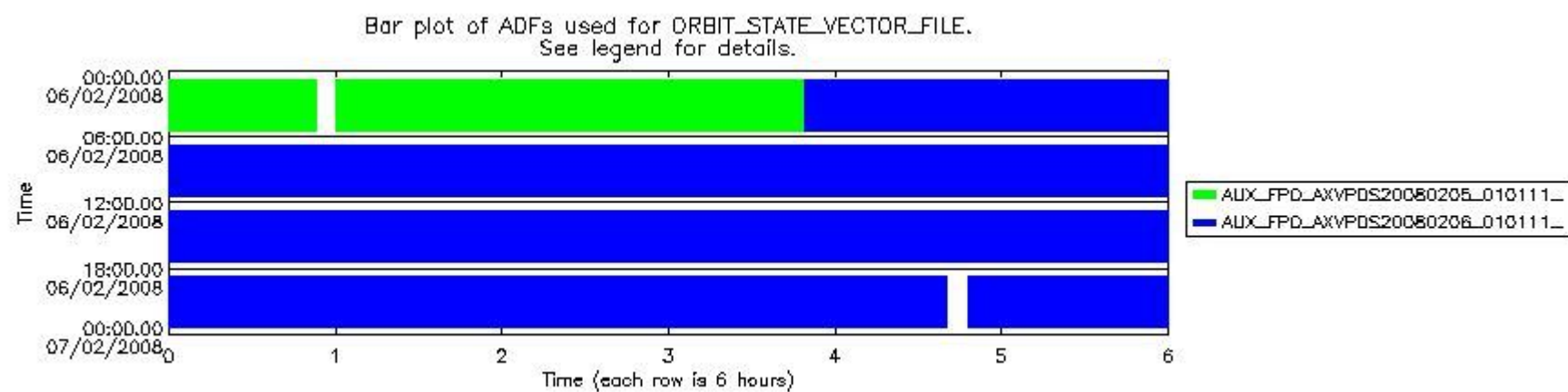
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

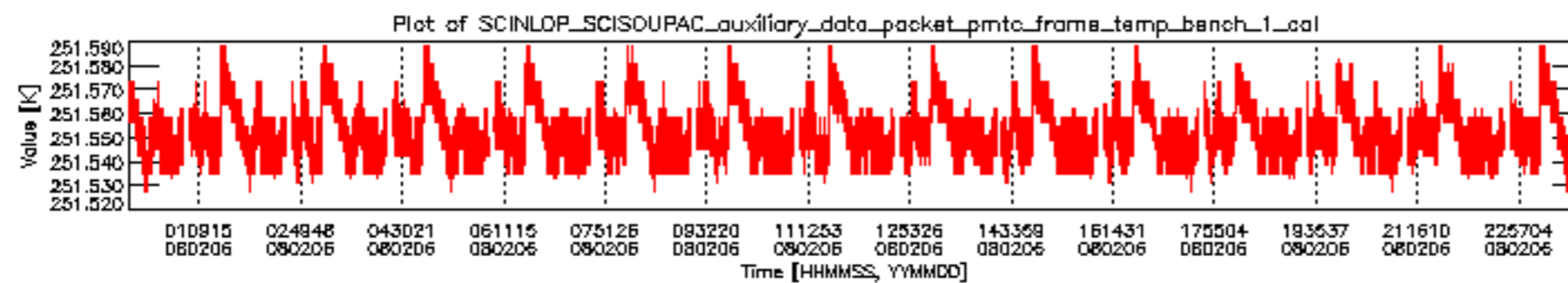
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20080205_010111_20080204_185825_20080214_202437
2	AUX_FPO_AXVPDS20080206_010111_20080205_182648_20080215_213336



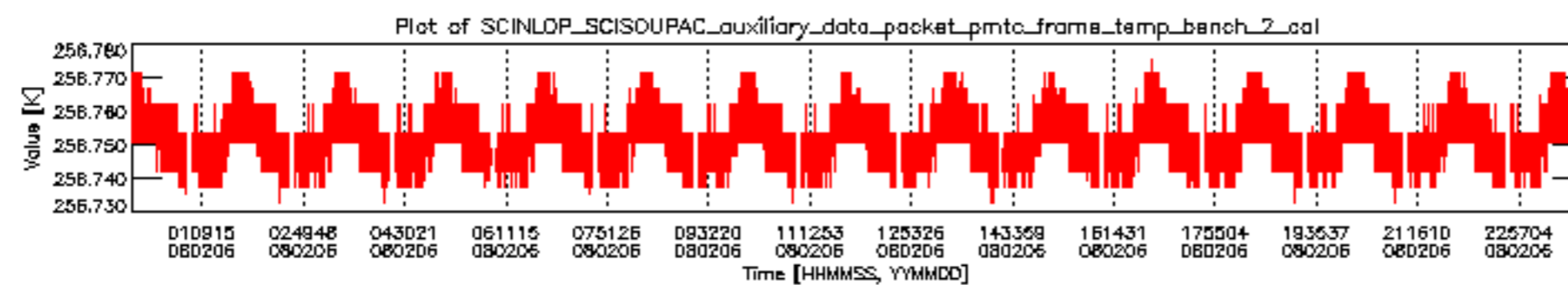
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080206\_7.PNG

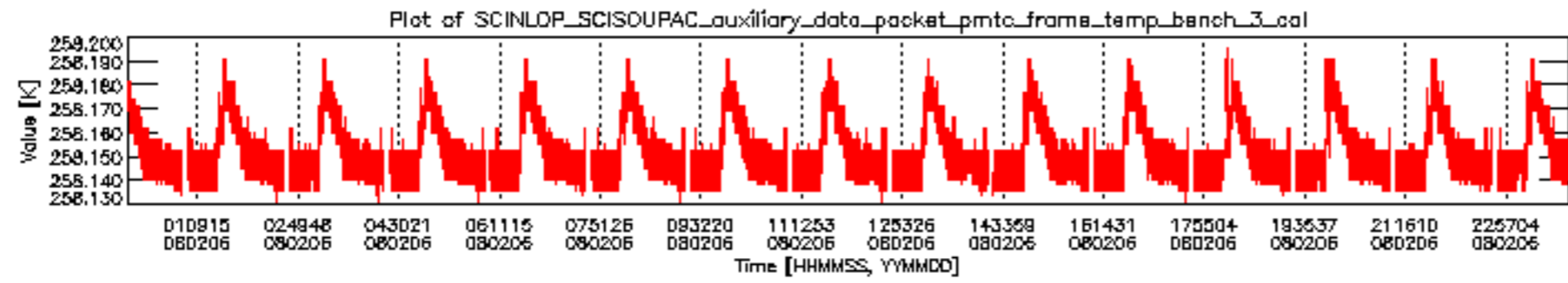


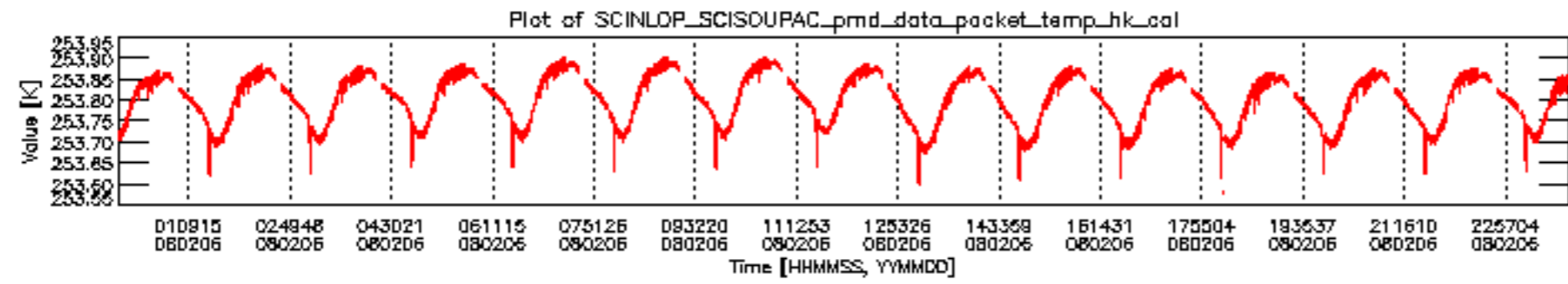
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080206\_8.PNG

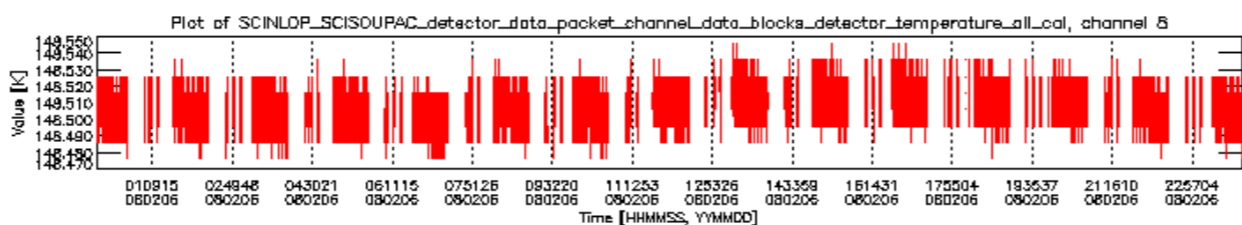
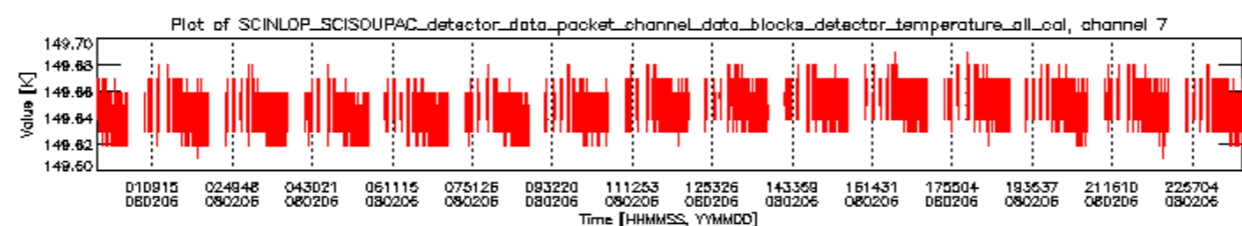
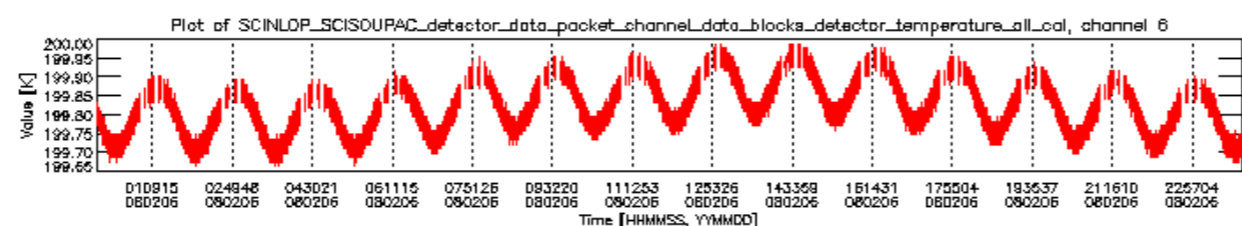
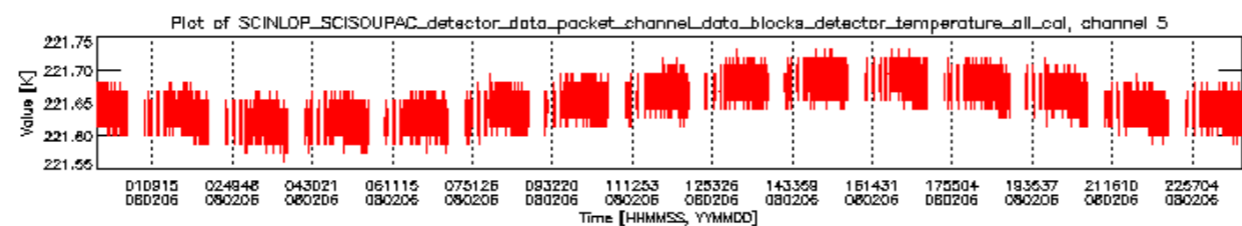
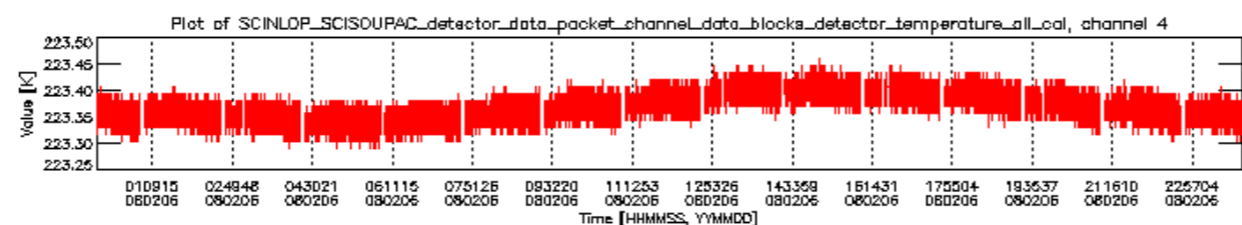
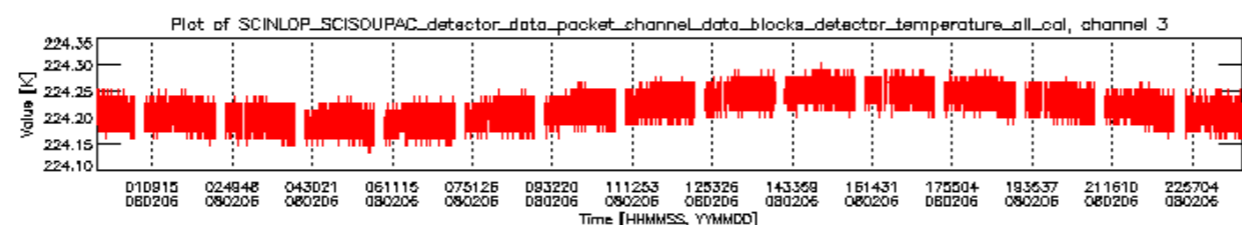
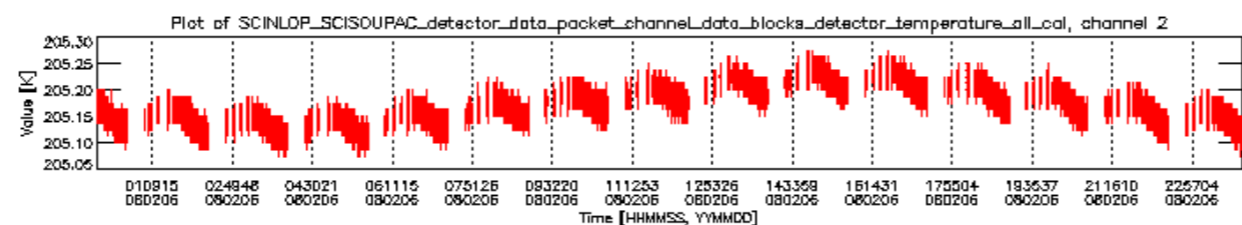
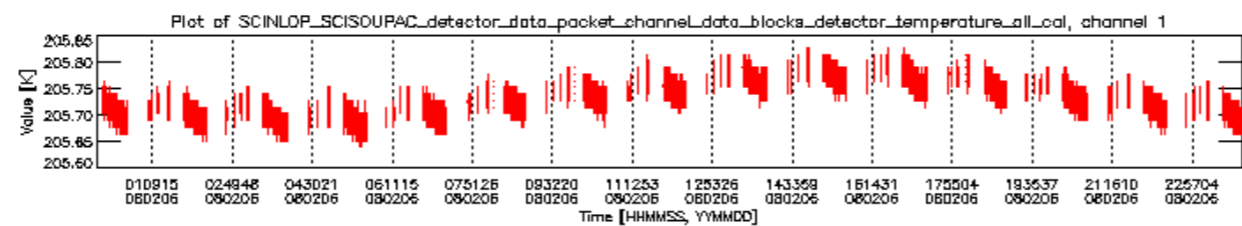






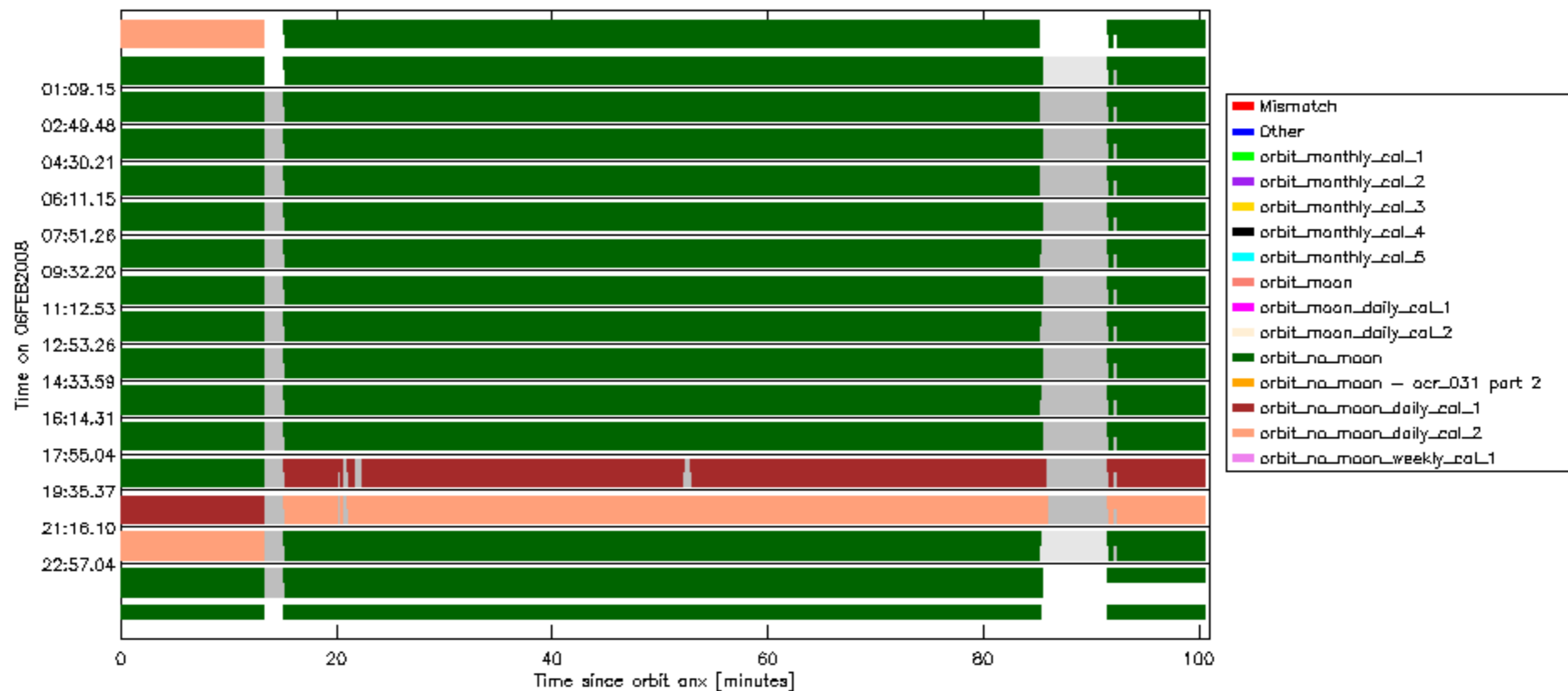


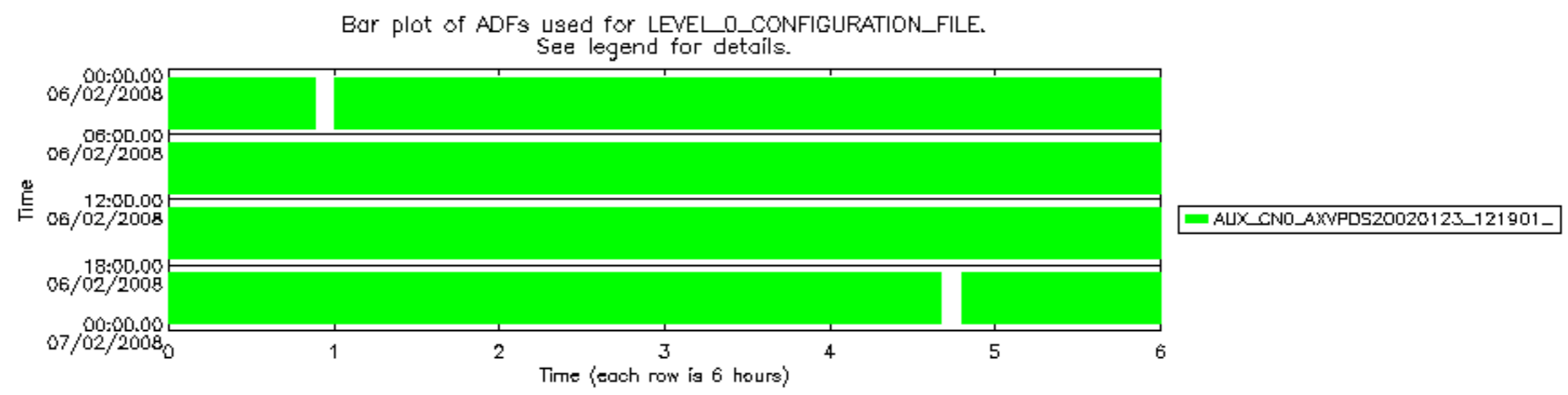






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 06FEB2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

