

## 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	22FEB2009 05:17:20
Data source version	KSPT_L0/4303-N
Processing scope for products	18FEB2009 00:00:00 to 19FEB2009 00:00:00
Start time of first product within scope	17FEB2009 23:38:24
Stop time of last product within scope	19FEB2009 00:39:43
Total number of level 0 products	16
Number of level 0 products with errors	1

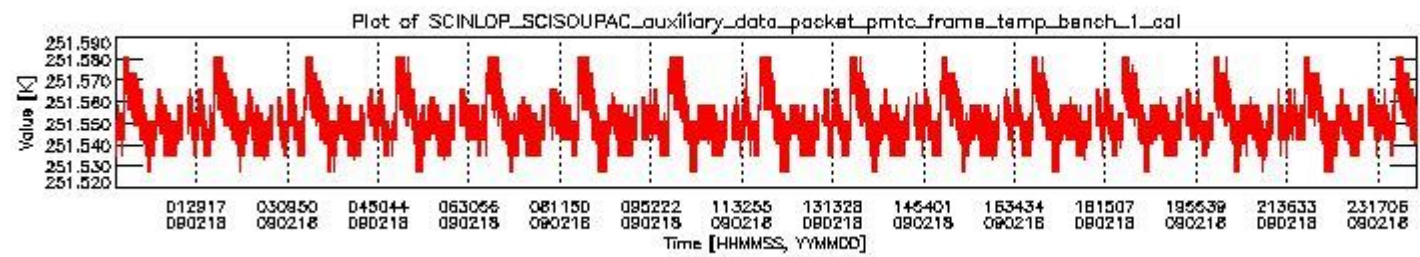
### 0.1.2 Summary per product

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

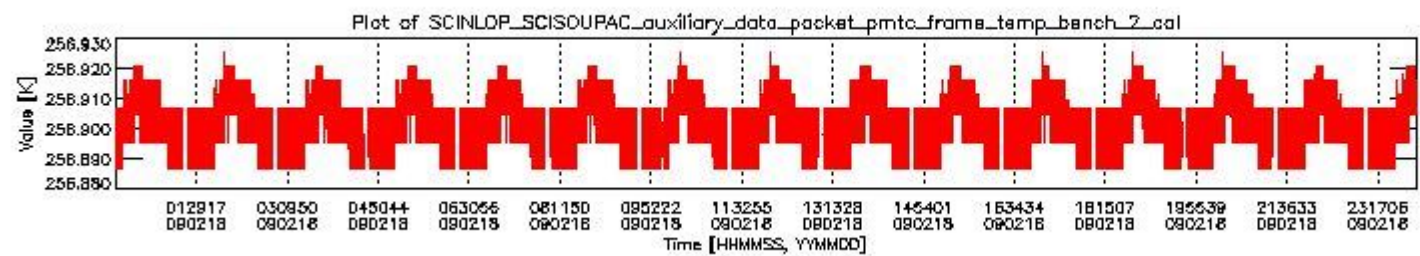
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090217_233824_000055832076_00316_36442_8512.N1	17FEB2009 23:38:24	18FEB2009 01:11:27	0	0	0	0	0
1	SCI_NL__OPNPDE20090218_011900_000045362076_00317_36443_8513.N1	18FEB2009 01:19:00	18FEB2009 02:34:36	0	0	0	0	0
2	SCI_NL__OPNPDE20090218_023327_000057872076_00318_36444_8514.N1	18FEB2009 02:33:27	18FEB2009 04:09:54	0	0	0	0	0
3	SCI_NL__OPNPDE20090218_040954_000061042076_00319_36445_8515.N1	18FEB2009 04:09:54	18FEB2009 05:51:38	0	0	0	0	0
4	SCI_NL__OPNPDE20090218_055030_000062162076_00320_36446_8516.N1	18FEB2009 05:50:30	18FEB2009 07:34:05	0	0	0	0	0
5	SCI_NL__OPNPDK20090218_073405_000039332076_00321_36447_0750.N1	18FEB2009 07:34:05	18FEB2009 08:39:38	0	0	0	0	0
6	SCI_NL__OPNPDK20090218_083830_000061602076_00322_36448_0751.N1	18FEB2009 08:38:30	18FEB2009 10:21:09	0	0	0	0	0
7	SCI_NL__OPNPDK20090218_102001_000058552076_00323_36449_0752.N1	18FEB2009 10:20:01	18FEB2009 11:57:36	0	0	0	0	0
8	SCI_NL__OPNPDK20090218_115736_000060912076_00324_36450_0753.N1	18FEB2009 11:57:36	18FEB2009 13:39:07	1	1	0	0	0
9	SCI_NL__OPNPDK20090218_133907_000058552076_00325_36451_0754.N1	18FEB2009 13:39:07	18FEB2009 15:16:42	0	0	0	0	0
10	SCI_NL__OPNPDK20090218_151451_000059802076_00326_36452_0755.N1	18FEB2009 15:14:51	18FEB2009 16:54:30	0	0	0	0	0
11	SCI_NL__OPNPDK20090218_165212_000060362076_00327_36453_0756.N1	18FEB2009 16:52:12	18FEB2009 18:32:48	0	0	0	0	0
12	SCI_NL__OPNPDK20090218_183151_000060352076_00328_36454_0757.N1	18FEB2009 18:31:51	18FEB2009 20:12:27	0	0	0	0	0
13	SCI_NL__OPNPDE20090218_201035_000041062076_00329_36455_8517.N1	18FEB2009 20:10:35	18FEB2009 21:19:01	0	0	0	0	0
14	SCI_NL__OPNPDE20090218_212605_000055962076_00329_36455_8518.N1	18FEB2009 21:26:05	18FEB2009 22:59:20	0	0	0	0	0
15	SCI_NL__OPNPDE20090218_230640_000055832076_00330_36456_8519.N1	18FEB2009 23:06:40	19FEB2009 00:39:43	0	0	0	0	0

## 0.2 Product Quality Indicators

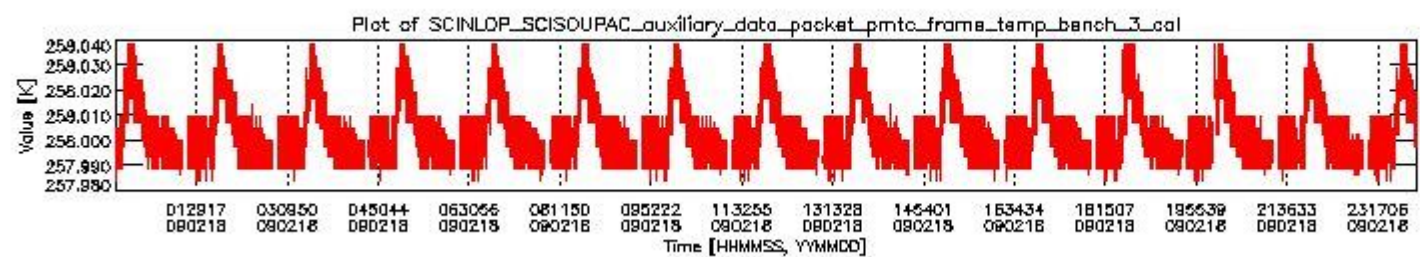
This section shows information about product quality, currently temperatures.



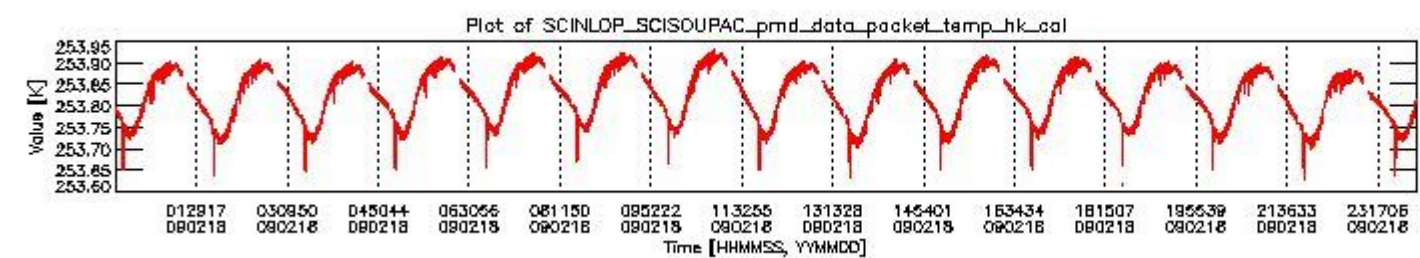
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090218\_0.PNG



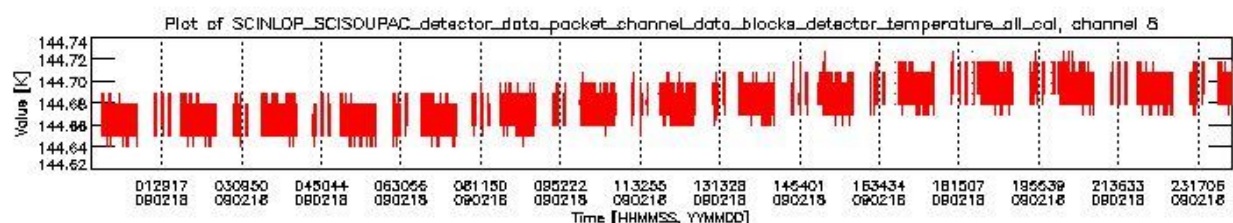
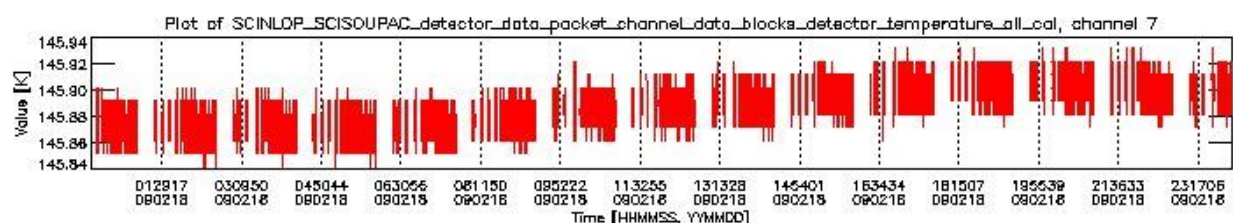
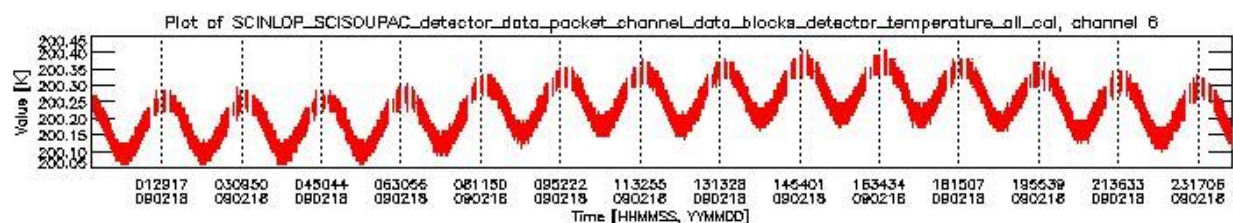
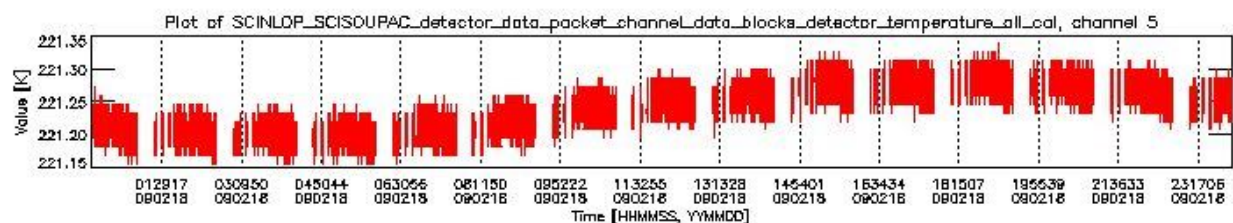
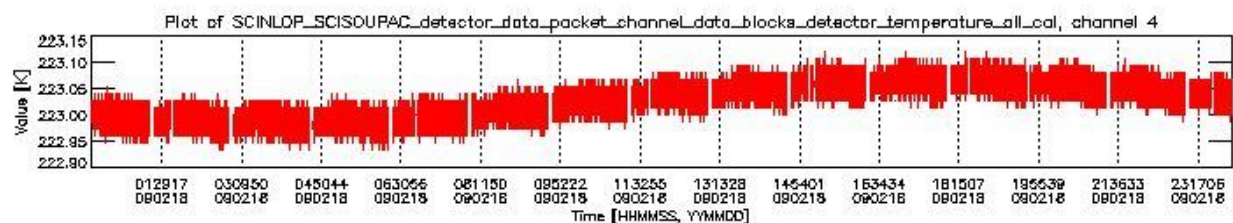
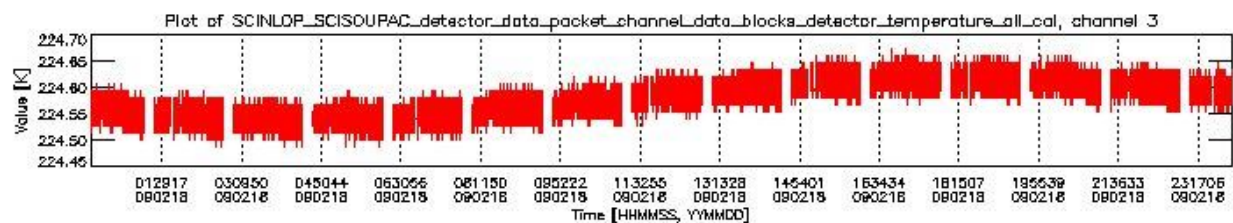
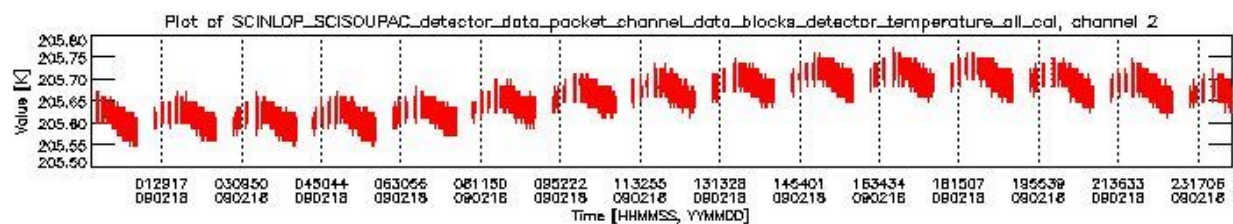
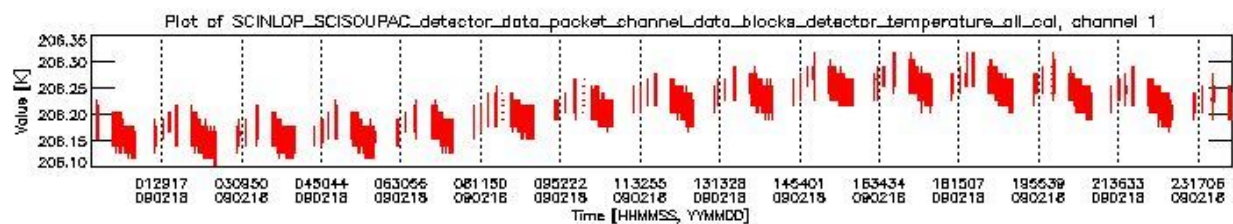
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090218\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090218\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090218\_3.PNG

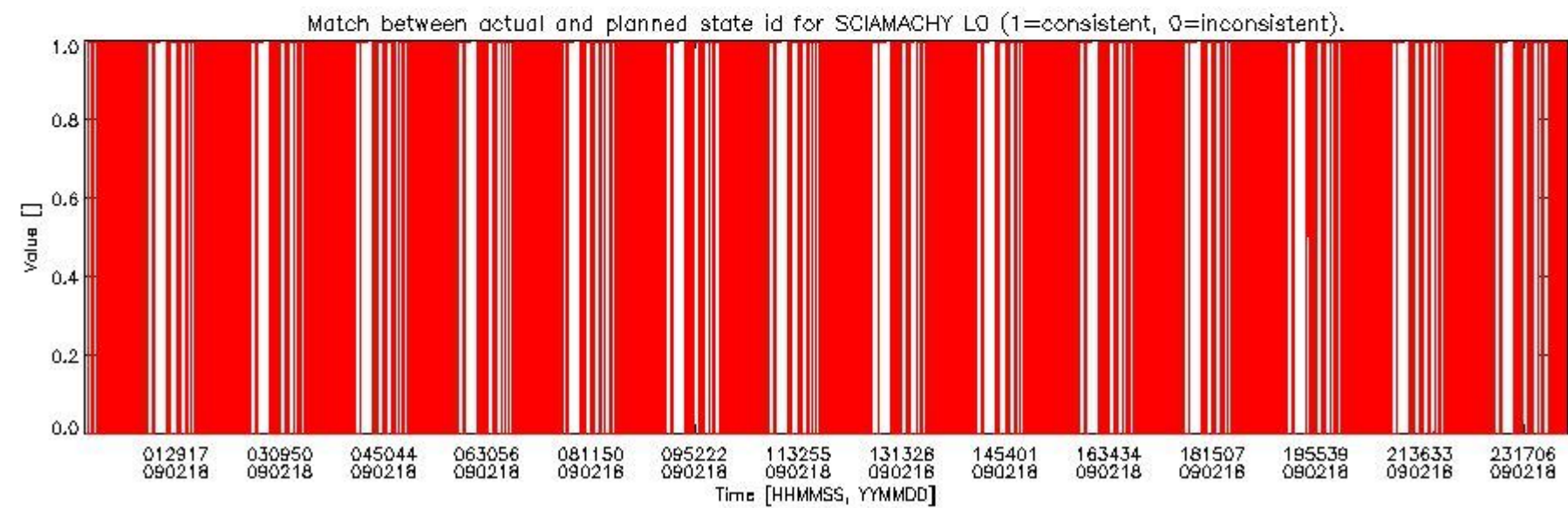
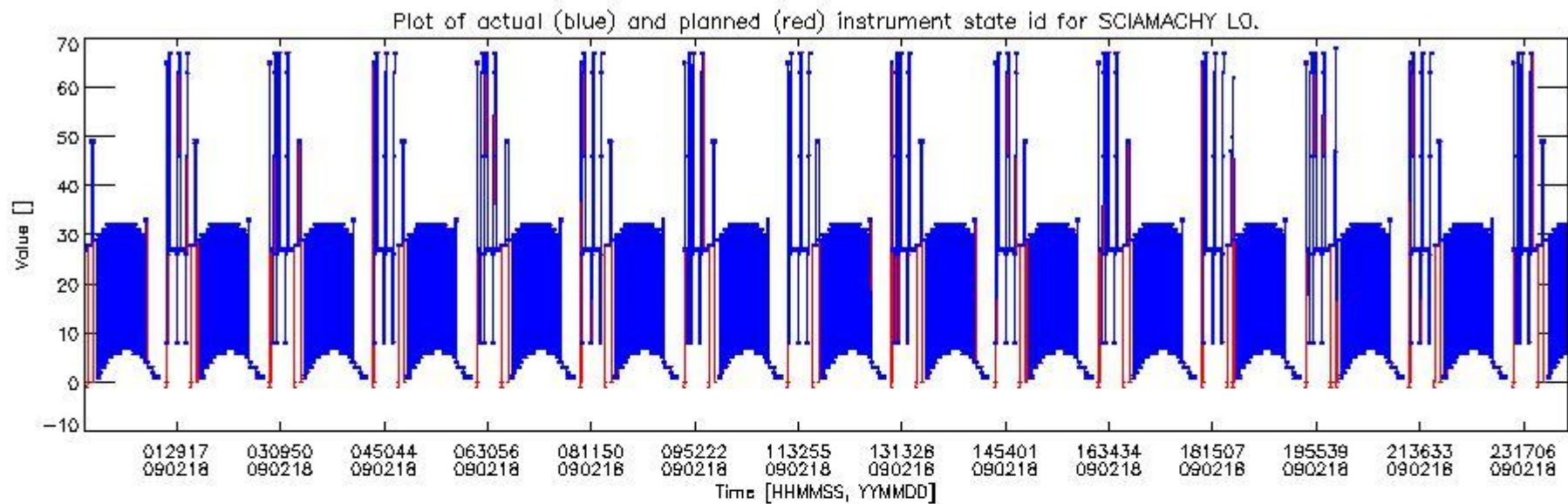


### 0.3 State monitoring

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: **47494**

#	Actual time	Actual value	Planned time	Planned value
0	18FEB2009 00:02:33.922842	28	18FEB2009 00:02:33.922842	0
1	18FEB2009 00:02:34.547864	28	18FEB2009 00:02:34.547864	0
2	18FEB2009 00:02:34.922837	28	18FEB2009 00:02:34.922837	0
3	18FEB2009 00:02:35.297850	28	18FEB2009 00:02:35.297850	0
4	18FEB2009 00:02:35.860350	28	18FEB2009 00:02:35.860350	0
5	18FEB2009 00:02:36.235363	28	18FEB2009 00:02:36.235363	0
6	18FEB2009 00:02:36.610335	28	18FEB2009 00:02:36.610335	0
7	18FEB2009 00:02:36.985348	28	18FEB2009 00:02:36.985348	0
8	18FEB2009 00:02:37.547848	28	18FEB2009 00:02:37.547848	0
9	18FEB2009 00:02:37.922861	28	18FEB2009 00:02:37.922861	0
10	18FEB2009 00:02:38.297874	28	18FEB2009 00:02:38.297874	0
11	18FEB2009 00:02:38.672847	28	18FEB2009 00:02:38.672847	0
12	18FEB2009 00:02:38.922856	28	18FEB2009 00:02:38.922856	0
13	18FEB2009 00:02:39.235346	28	18FEB2009 00:02:39.235346	0
14	18FEB2009 00:02:39.610359	28	18FEB2009 00:02:39.610359	0
15	18FEB2009 00:02:39.985372	28	18FEB2009 00:02:39.985372	0
16	18FEB2009 00:02:40.360345	28	18FEB2009 00:02:40.360345	0
17	18FEB2009 00:02:40.922845	28	18FEB2009 00:02:40.922845	0
18	18FEB2009 00:02:41.297858	28	18FEB2009 00:02:41.297858	0
19	18FEB2009 00:02:41.672871	28	18FEB2009 00:02:41.672871	0
...	...	...	...	...

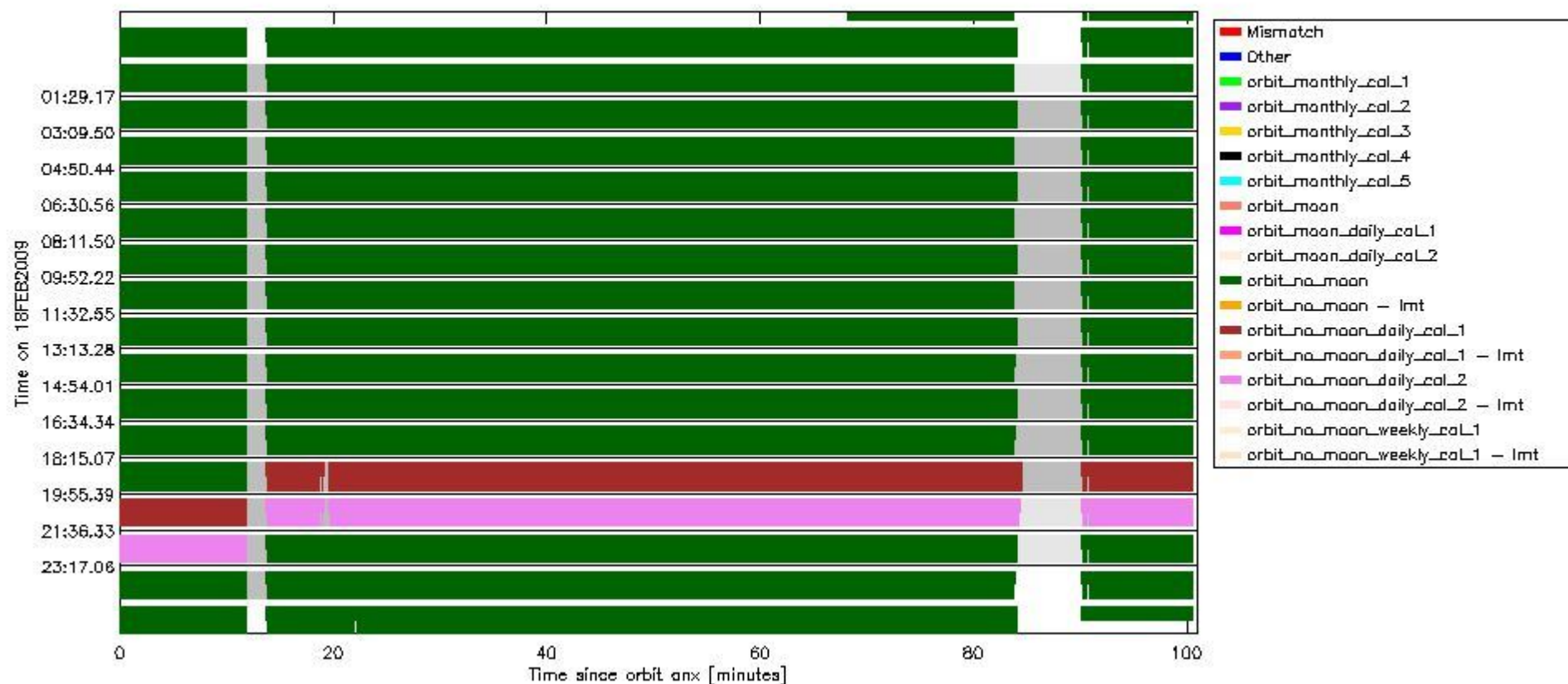


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090218\_5.PNG

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 18FEB2009.  
 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\_20090218\_6.PNG

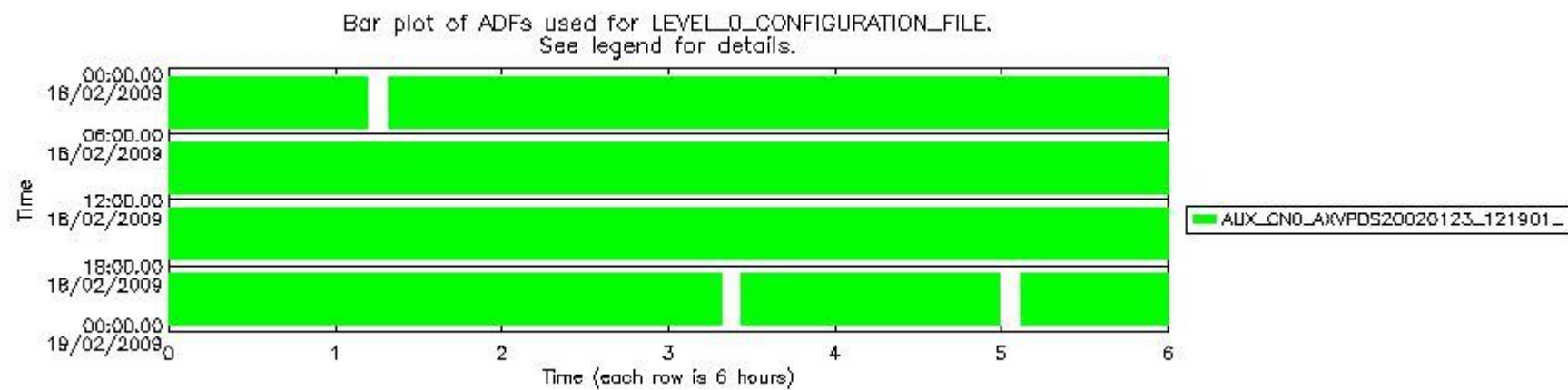
## 0.4 ADF monitoring

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

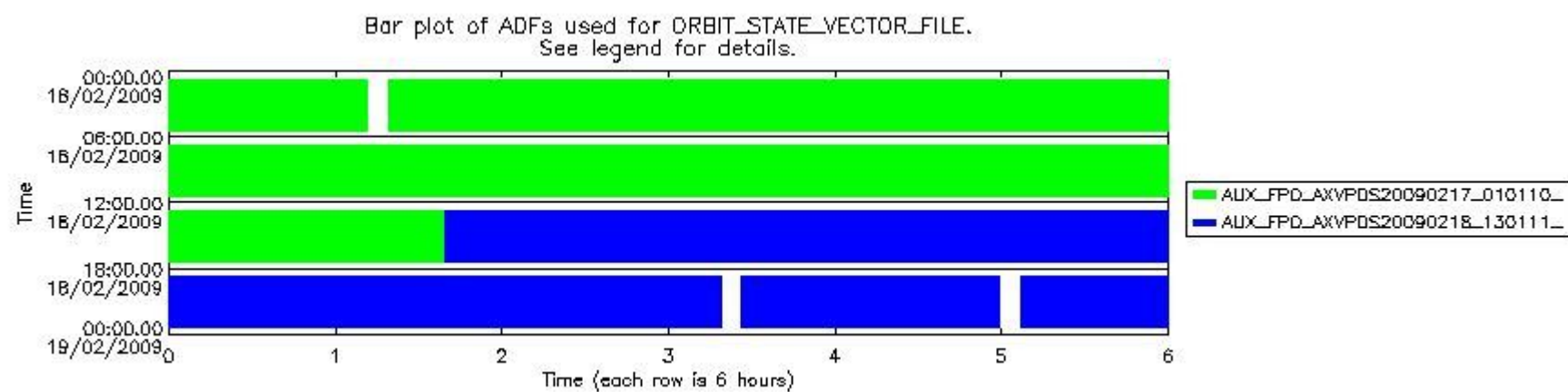
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

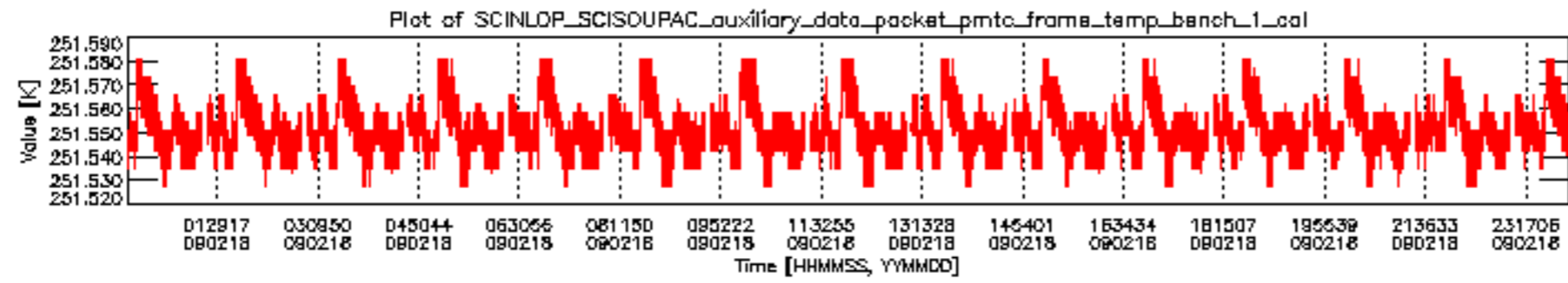
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20090217_010110_20090216_105531_20090225_193545</b>
2	<b>AUX_FPO_AXVPDS20090218_130111_20090217_184654_20090227_201307</b>



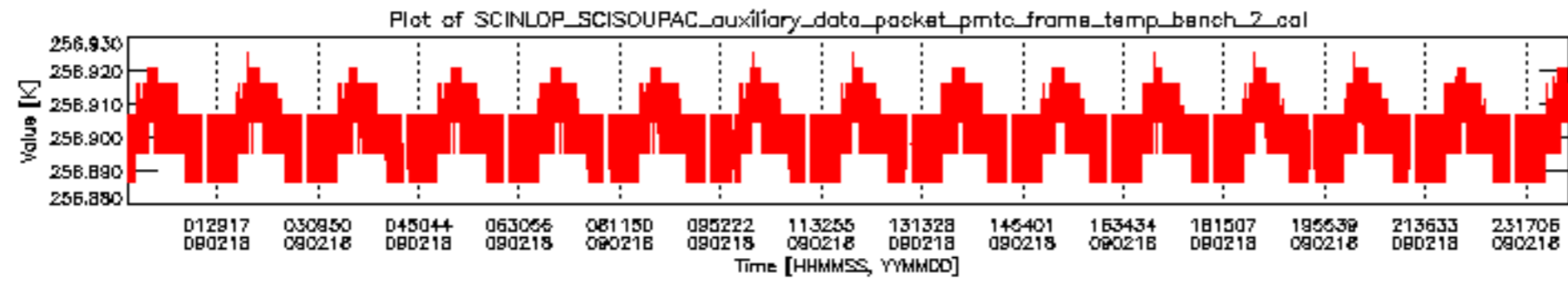
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090218\_7.PNG

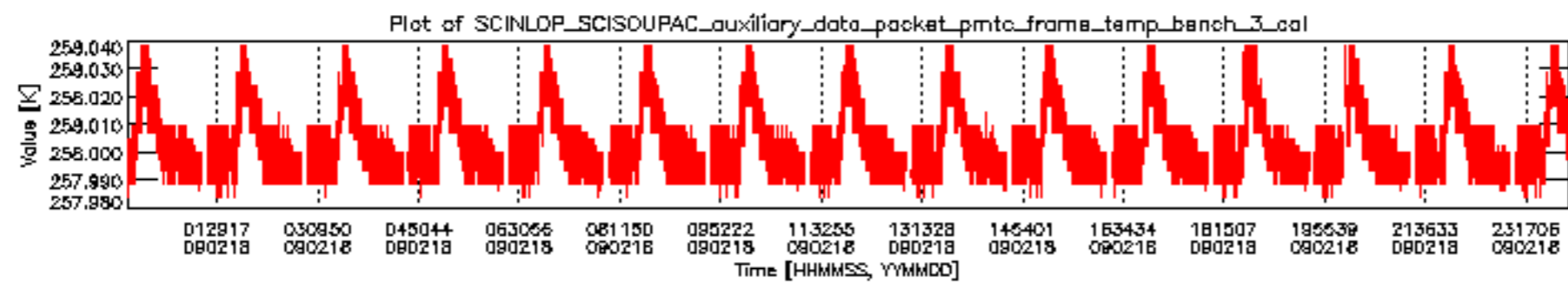


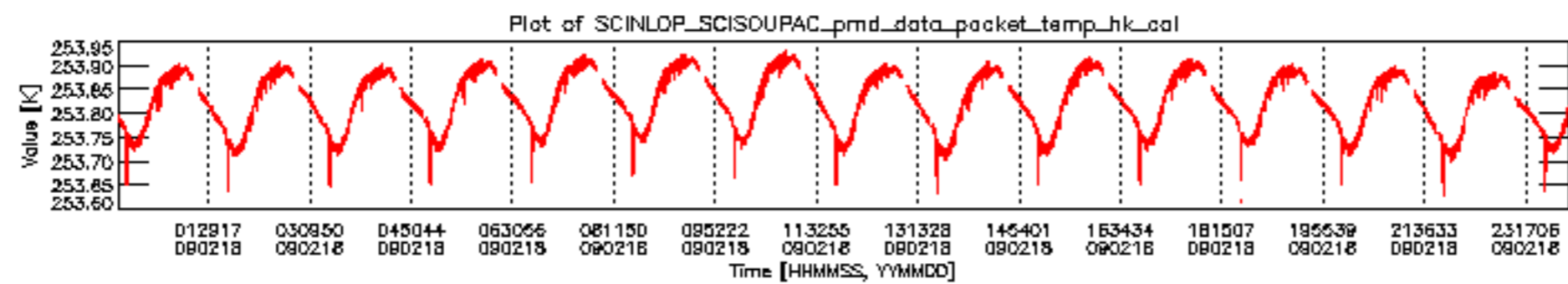
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090218\_8.PNG

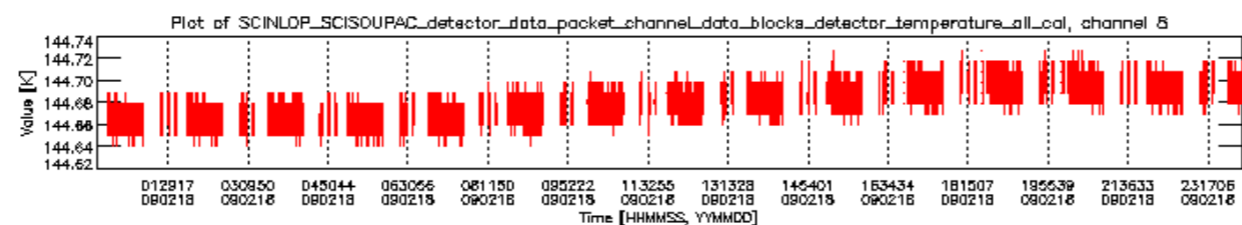
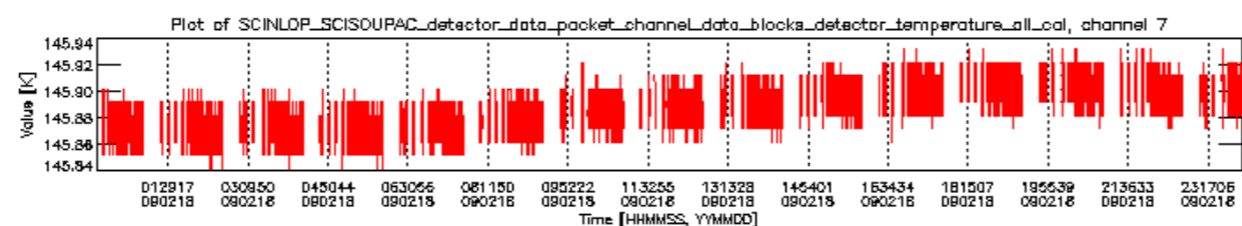
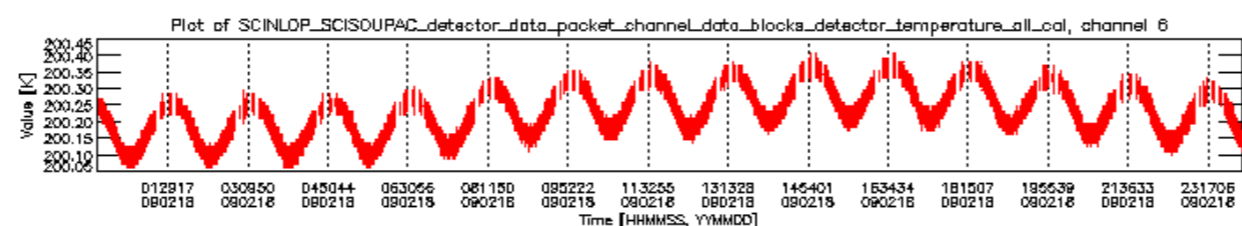
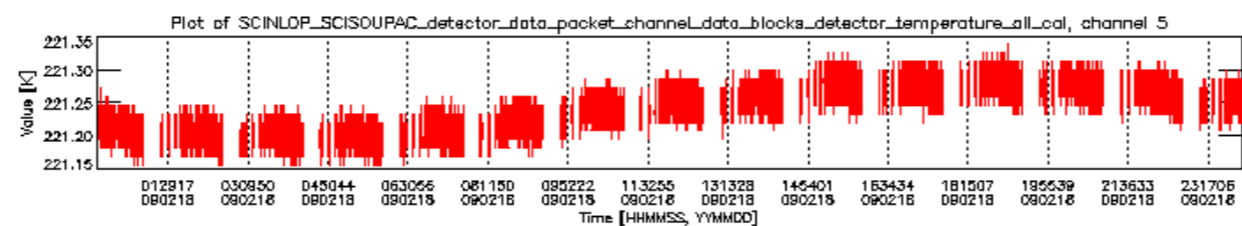
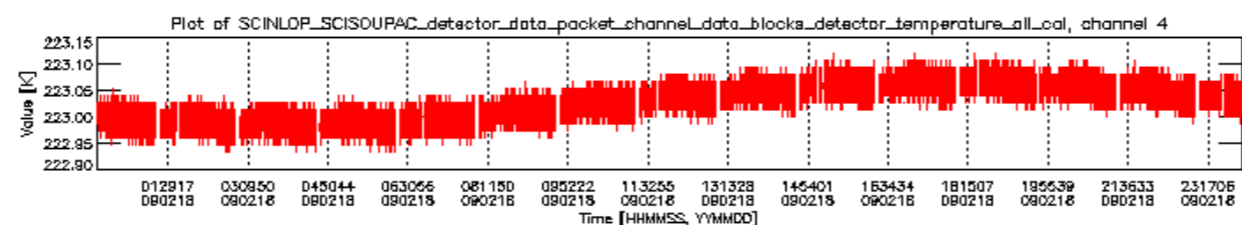
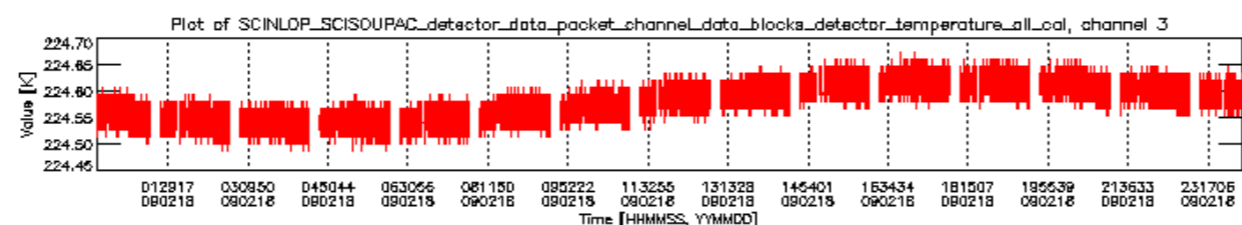
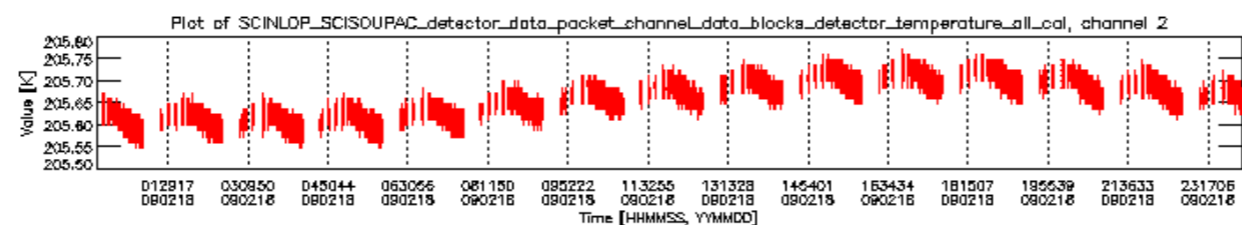
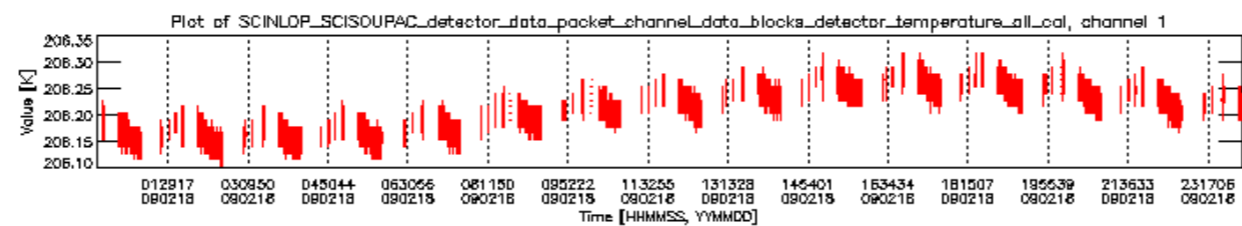


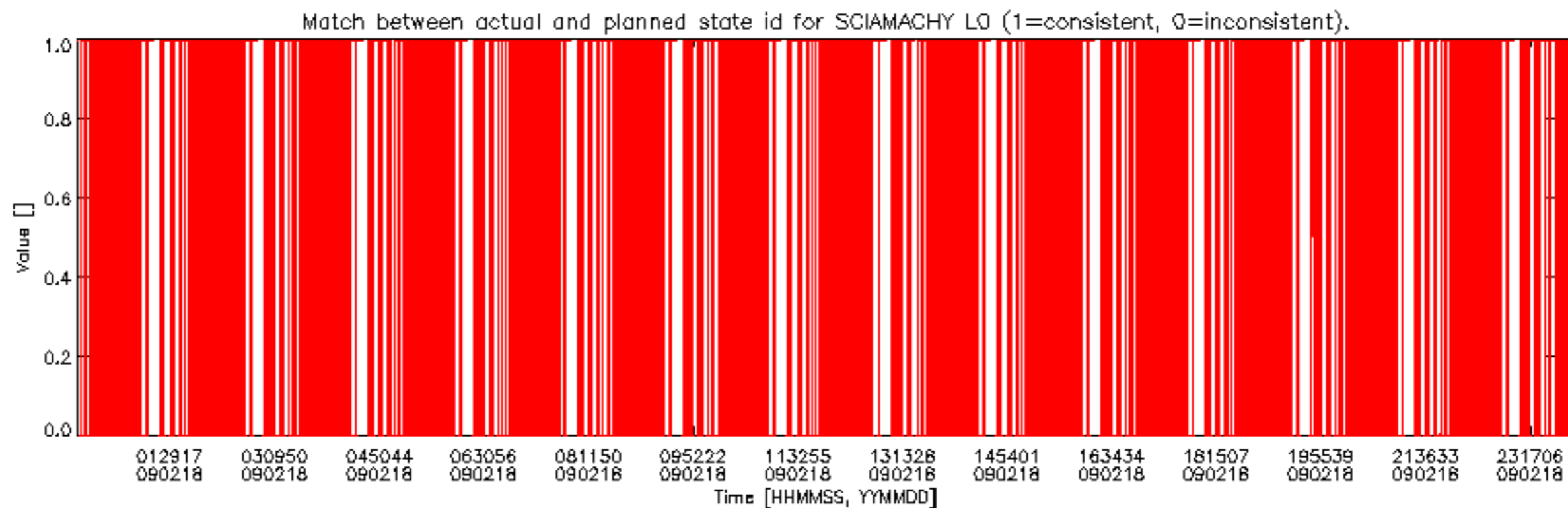
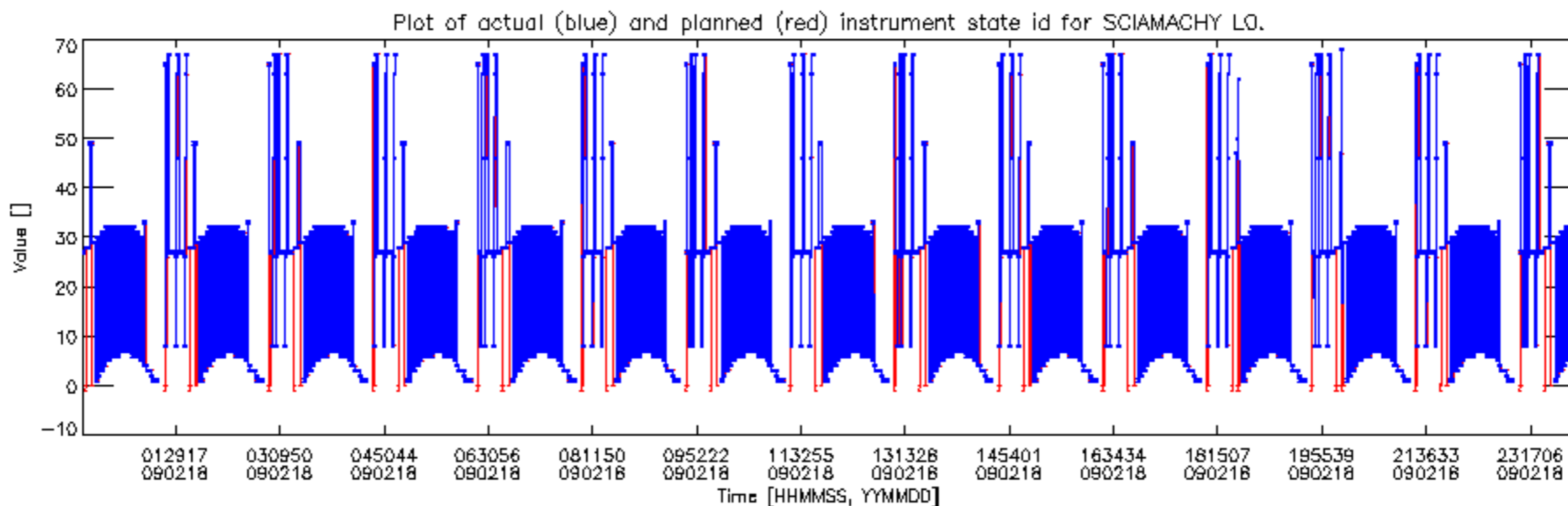












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 18FEB2009.  
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