

# 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	12JAN2009 05:09:23
Data source version	KSPT_L0/4303-N
Processing scope for products	08JAN2009 00:00:00 to 09JAN2009 00:00:00
Start time of first product within scope	07JAN2009 23:30:11
Stop time of last product within scope	09JAN2009 00:34:51
Total number of level 0 products	15
Number of level 0 products with errors	2

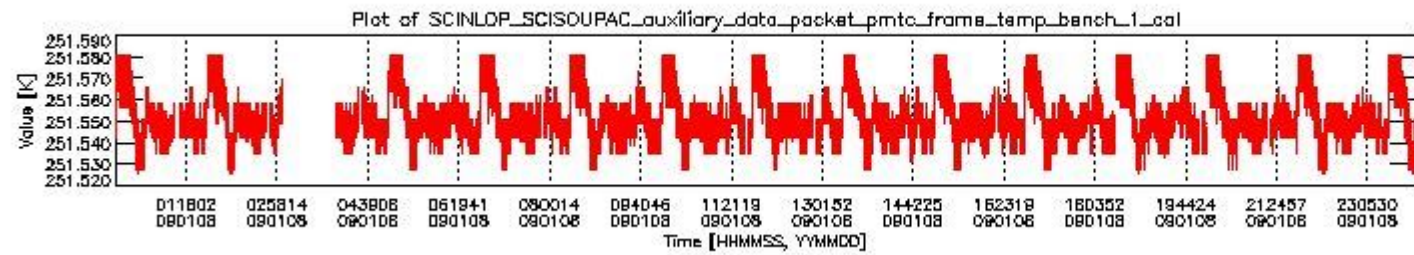
#### 0.1.2 Summary per product

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

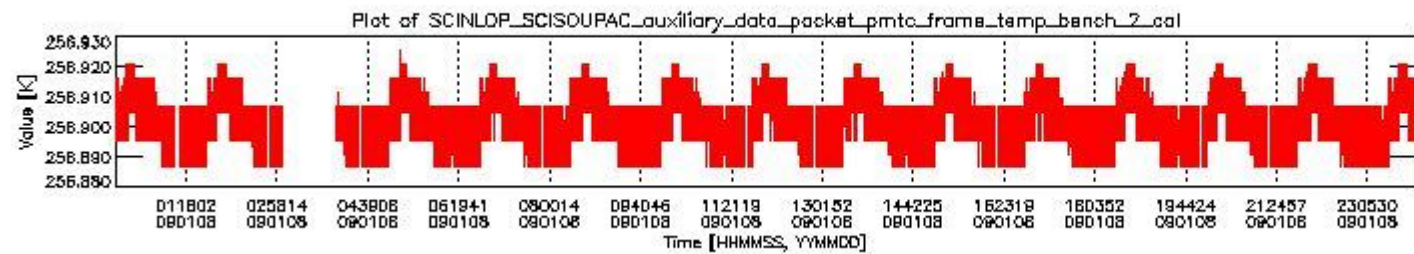
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090107_233011_000056242075_00230_35855_8245.N1	07JAN2009 23:30:11	08JAN2009 01:03:55	0	0	0	0	0
1	SCI_NL__OPNPDE20090108_011047_000067642075_00231_35856_8246.N1	08JAN2009 01:10:47	08JAN2009 03:03:31	0	0	0	0	0
2	SCI_NL__OPNPDE20090108_040306_000057872075_00233_35858_8247.N1	08JAN2009 04:03:06	08JAN2009 05:39:32	0	0	0	0	0
3	SCI_NL__OPNPDE20090108_053932_000061042075_00234_35859_8248.N1	08JAN2009 05:39:32	08JAN2009 07:21:17	0	0	0	0	0
4	SCI_NL__OPNPDK20090108_072008_000039892075_00235_35860_0395.N1	08JAN2009 07:20:08	08JAN2009 08:26:37	0	0	0	0	0
5	SCI_NL__OPNPDK20090108_082541_000062162075_00236_35861_0396.N1	08JAN2009 08:25:41	08JAN2009 10:09:17	0	0	0	0	0
6	SCI_NL__OPNPDK20090108_100809_000060362075_00237_35862_0397.N1	08JAN2009 10:08:09	08JAN2009 11:48:44	0	0	0	0	0
7	SCI_NL__OPNPDK20090108_114653_000059802075_00238_35863_0398.N1	08JAN2009 11:46:53	08JAN2009 13:26:32	0	0	0	0	0
8	SCI_NL__OPNPDK20090108_132536_000060922075_00239_35864_0399.N1	08JAN2009 13:25:36	08JAN2009 15:07:08	0	0	0	0	0
9	SCI_NL__OPNPDK20090108_150612_000058982075_00240_35865_0400.N1	08JAN2009 15:06:12	08JAN2009 16:44:30	1	1	1	0	0
10	SCI_NL__OPNPDK20090108_164333_000058682075_00241_35866_0401.N1	08JAN2009 16:43:33	08JAN2009 18:21:21	1	0	1	0	0
11	SCI_NL__OPNPDK20090108_182121_000060362075_00242_35867_0402.N1	08JAN2009 18:21:21	08JAN2009 20:01:57	0	0	0	0	0
12	SCI_NL__OPNPDE20090108_200157_000038952075_00243_35868_8249.N1	08JAN2009 20:01:57	08JAN2009 21:06:52	0	0	0	0	0
13	SCI_NL__OPNPDE20090108_210544_000065142075_00243_35868_8250.N1	08JAN2009 21:05:44	08JAN2009 22:54:18	0	0	0	0	0
14	SCI_NL__OPNPDE20090108_225309_000061022075_00244_35869_8251.N1	08JAN2009 22:53:09	09JAN2009 00:34:51	0	0	0	0	0

### 0.2 Product Quality Indicators

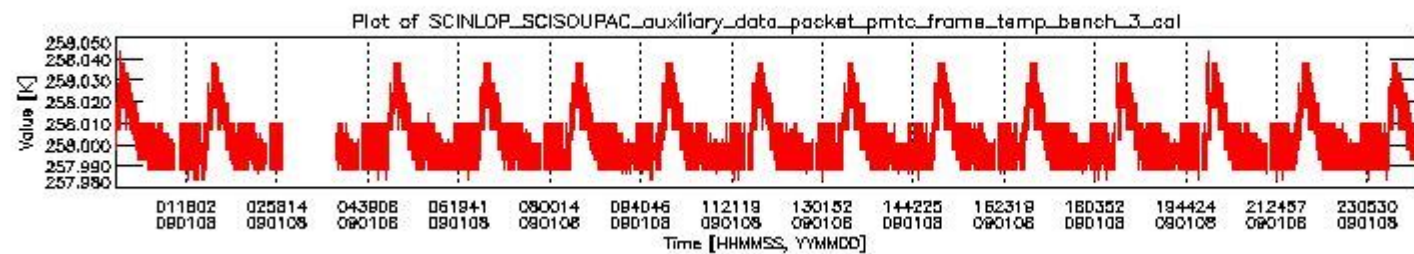
This section shows information about product quality, currently temperatures.



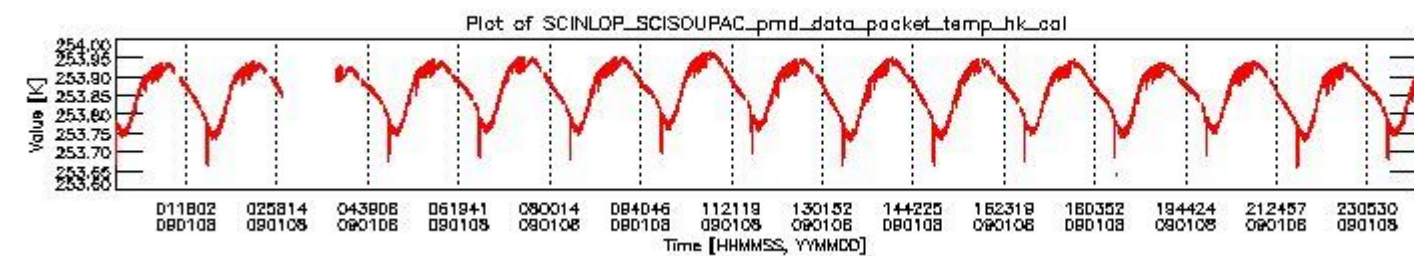
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090108\_0.PNG



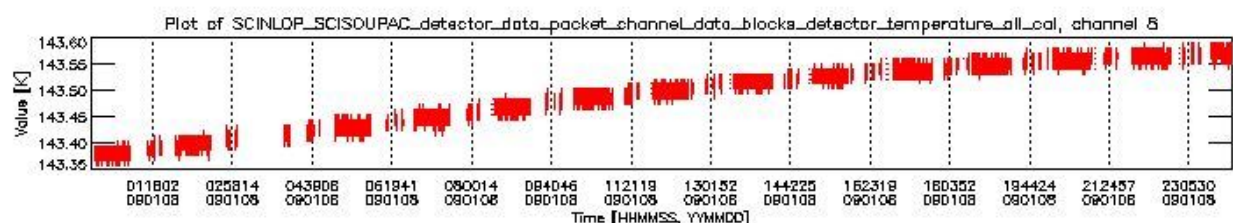
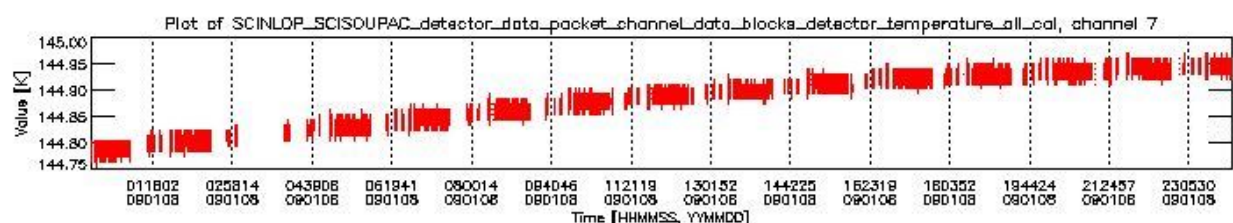
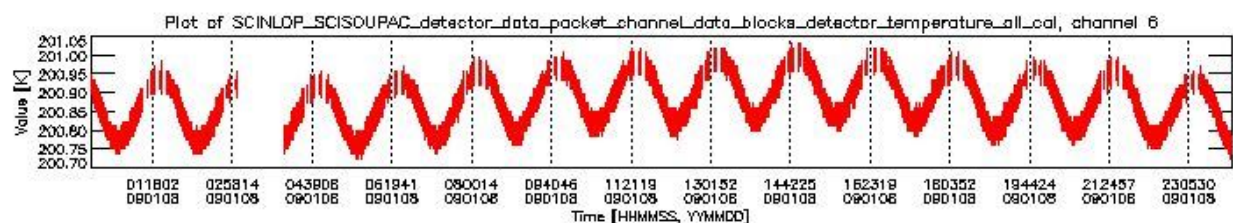
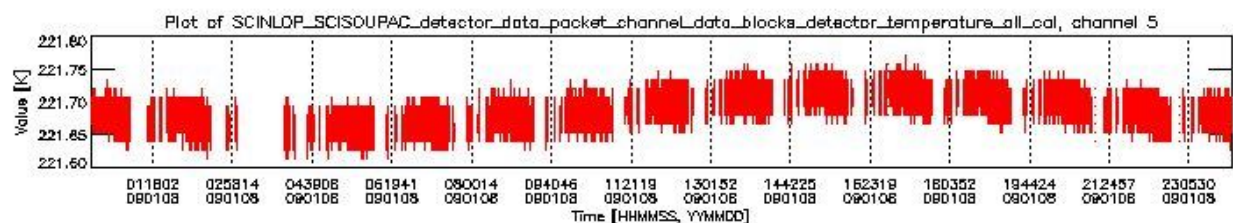
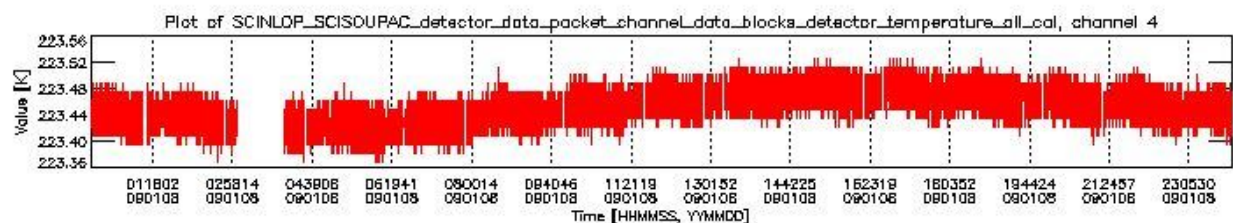
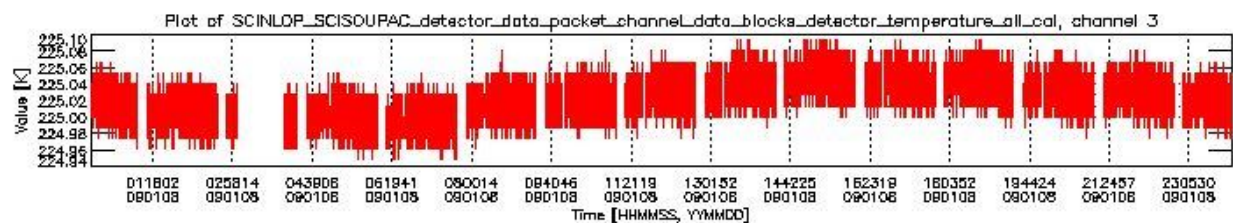
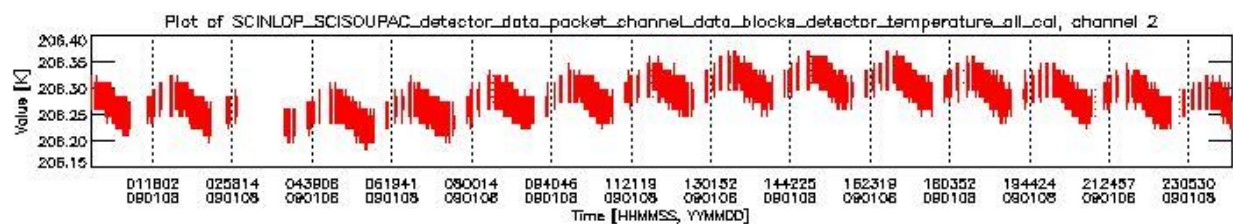
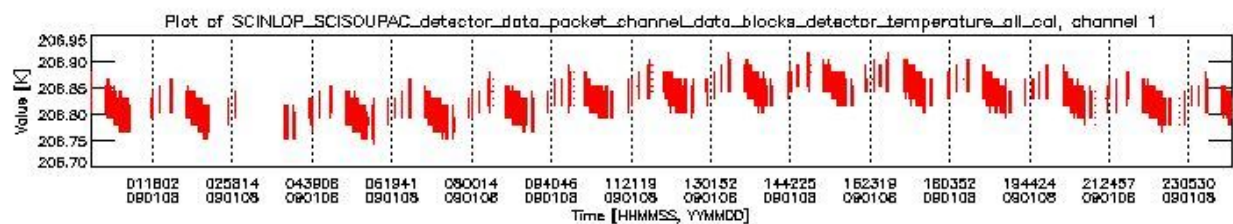
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sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090108\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090108\_3.PNG

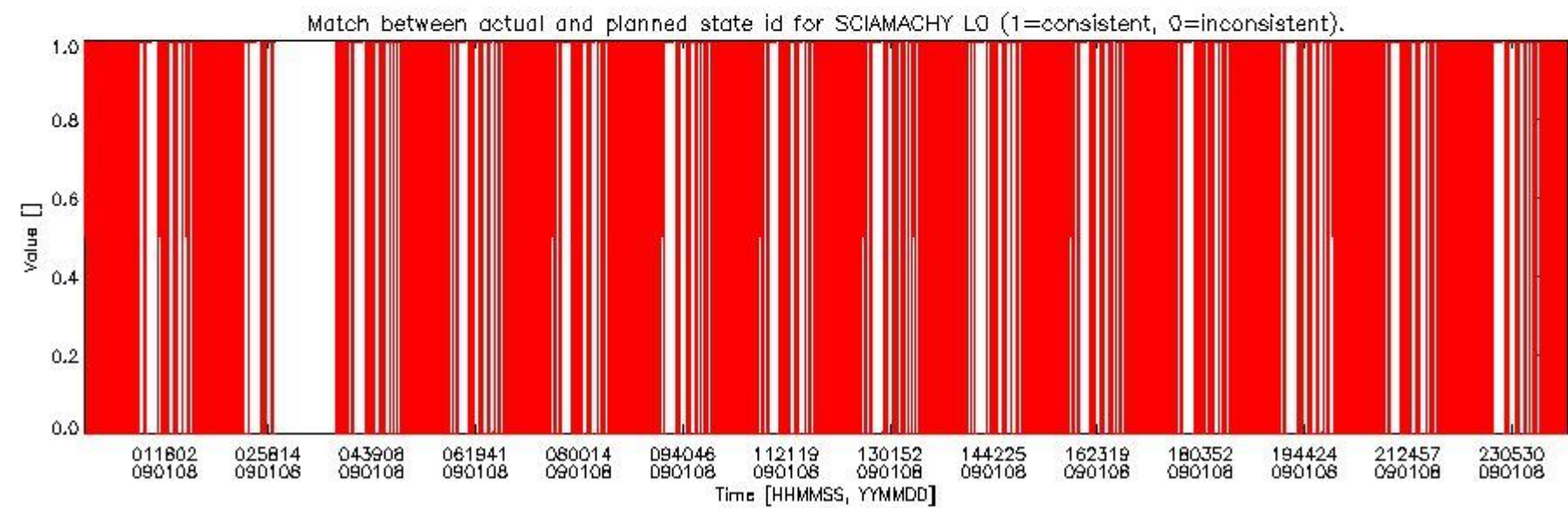
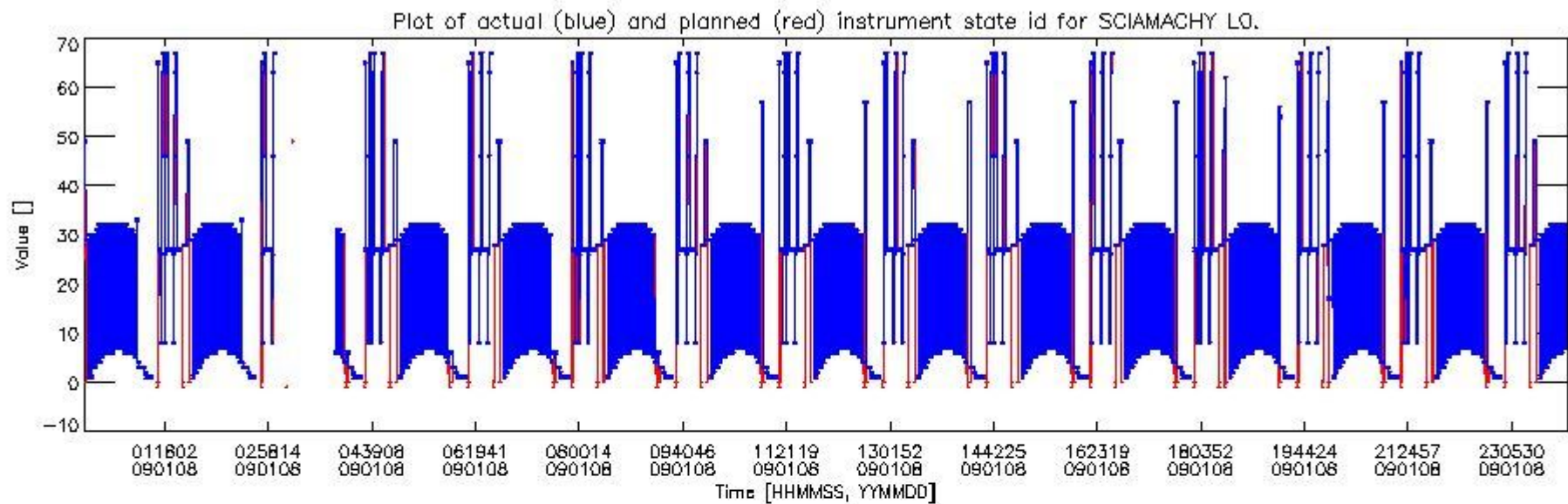


### 0.3 State monitoring

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: **49541**

#	Actual time	Actual value	Planned time	Planned value
0	08JAN2009 00:00:51.528990	29	08JAN2009 00:00:51.528990	0
1	08JAN2009 00:00:52.153972	29	08JAN2009 00:00:52.153972	0
2	08JAN2009 00:00:52.528985	29	08JAN2009 00:00:52.528985	0
3	08JAN2009 00:00:52.903958	29	08JAN2009 00:00:52.903958	0
4	08JAN2009 00:00:53.466457	29	08JAN2009 00:00:53.466457	0
5	08JAN2009 00:00:53.841470	29	08JAN2009 00:00:53.841470	0
6	08JAN2009 00:00:54.216483	29	08JAN2009 00:00:54.216483	0
7	08JAN2009 00:00:54.591456	29	08JAN2009 00:00:54.591456	0
8	08JAN2009 00:00:55.153956	29	08JAN2009 00:00:55.153956	0
9	08JAN2009 00:00:55.528969	29	08JAN2009 00:00:55.528969	0
10	08JAN2009 00:00:55.903982	29	08JAN2009 00:00:55.903982	0
11	08JAN2009 00:00:56.278954	29	08JAN2009 00:00:56.278954	0
12	08JAN2009 00:00:56.528963	29	08JAN2009 00:00:56.528963	0
13	08JAN2009 00:00:56.841454	29	08JAN2009 00:00:56.841454	0
14	08JAN2009 00:00:57.216467	29	08JAN2009 00:00:57.216467	0
15	08JAN2009 00:00:57.591480	29	08JAN2009 00:00:57.591480	0
16	08JAN2009 00:00:57.966453	29	08JAN2009 00:00:57.966453	0
17	08JAN2009 00:00:58.528952	29	08JAN2009 00:00:58.528952	0
18	08JAN2009 00:00:58.903965	29	08JAN2009 00:00:58.903965	0
19	08JAN2009 00:00:59.278978	29	08JAN2009 00:00:59.278978	0
	...	...	...	...

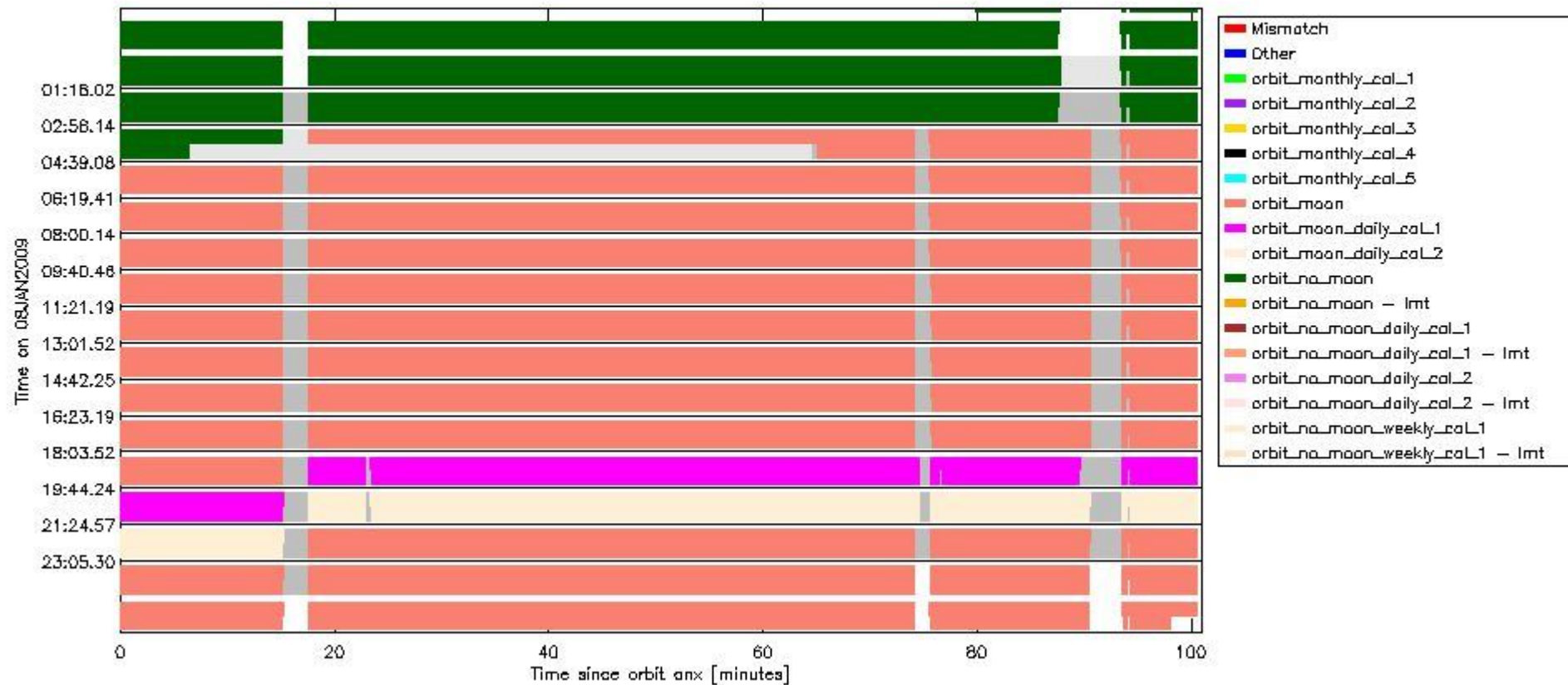


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090108\_5.PNG

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 08JAN2009.  
 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\_20090108\_6.PNG

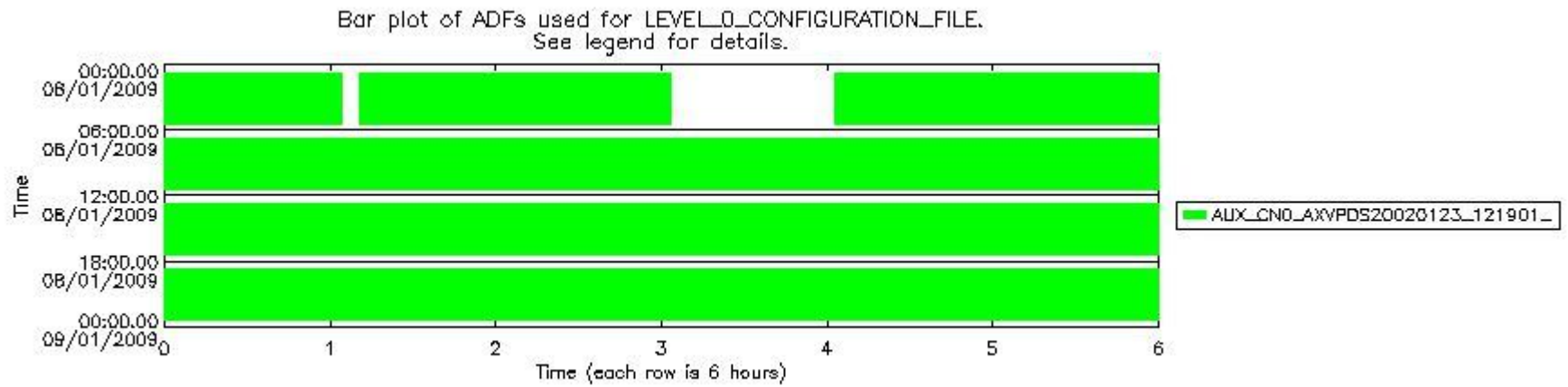
## 0.4 ADF monitoring

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

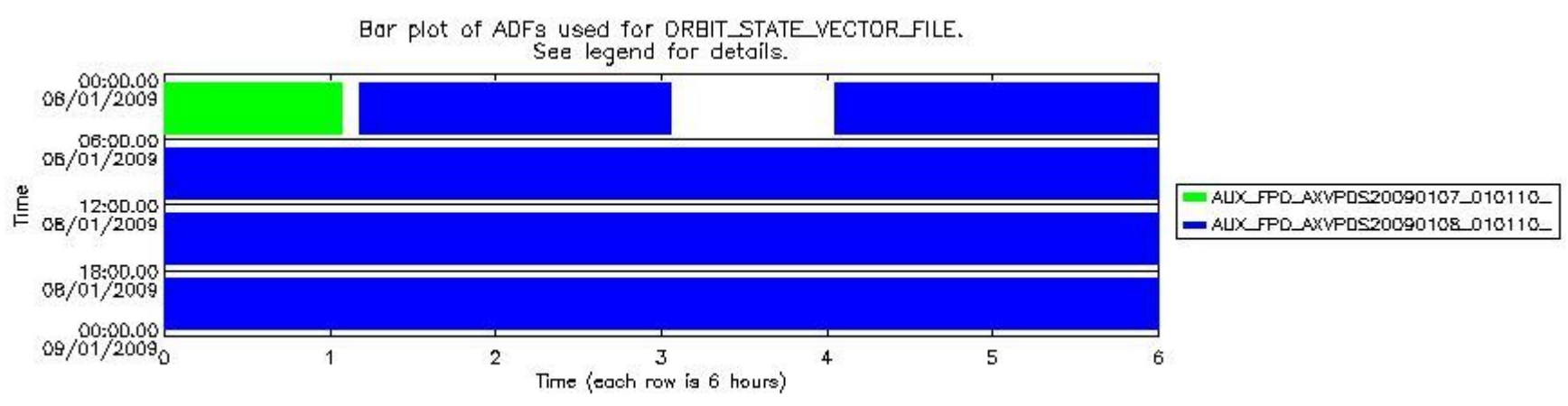
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

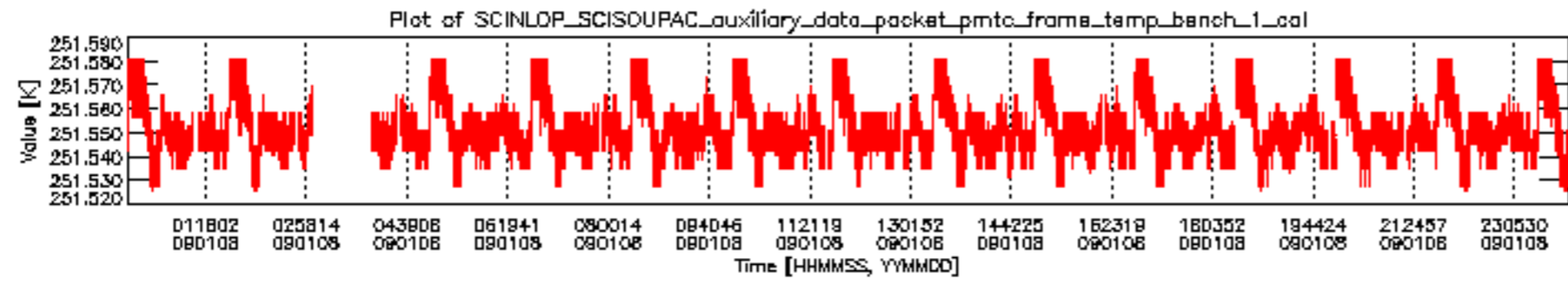
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090107_010110_20090106_190700_20090116_203313
2	AUX_FPO_AXVPDS20090108_010110_20090107_183523_20090117_200136



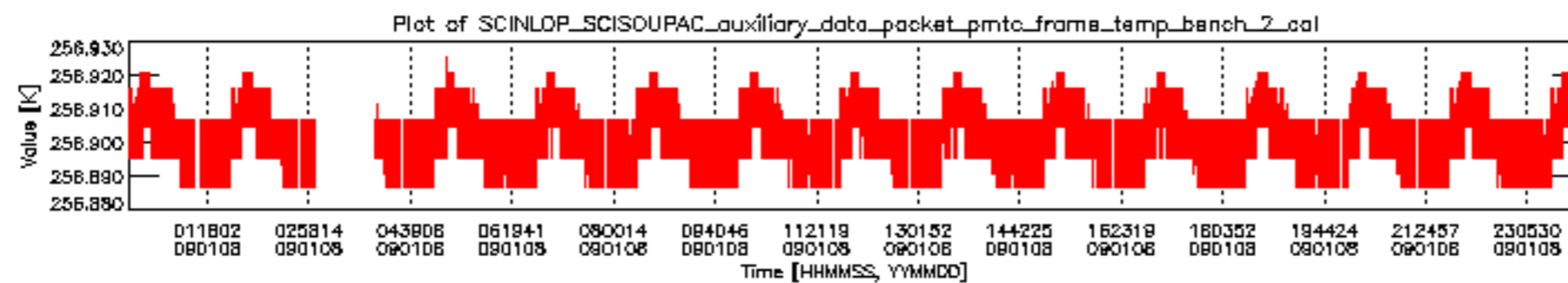
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090108\_7.PNG

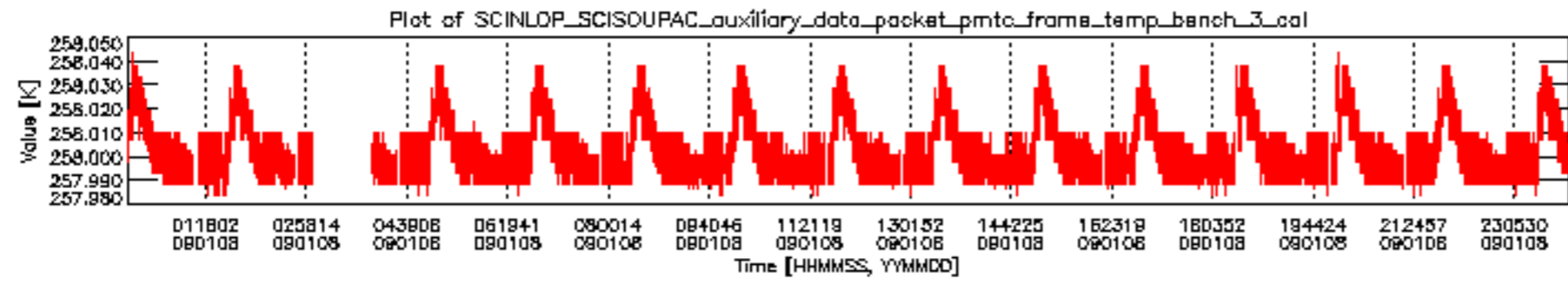


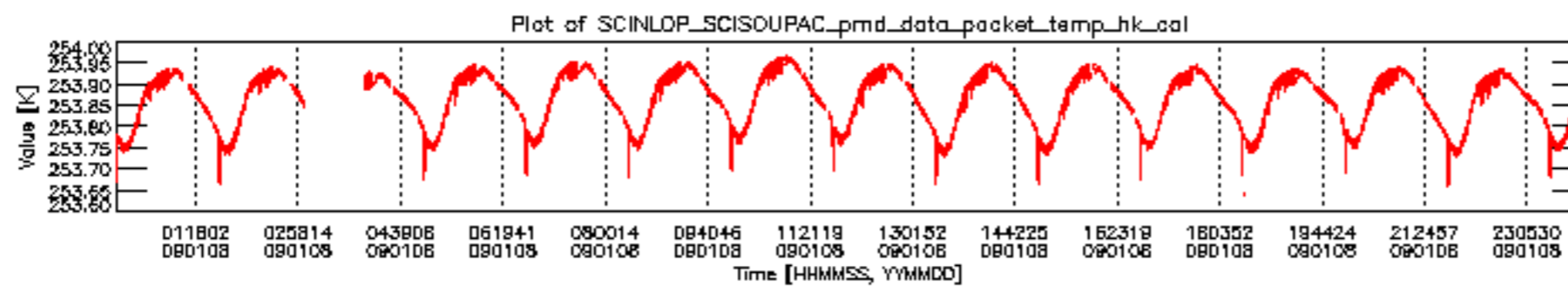
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090108\_8.PNG

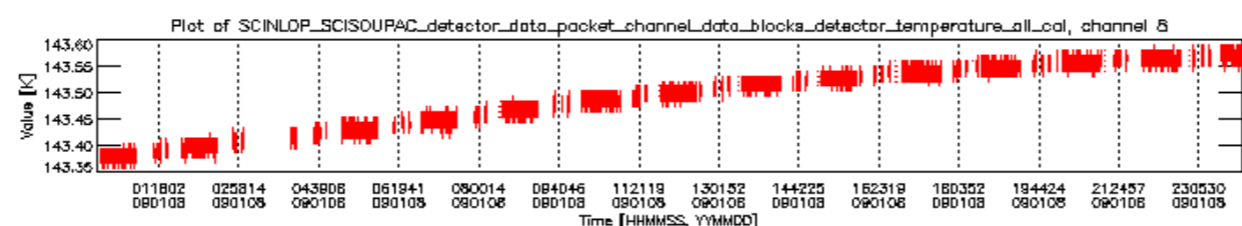
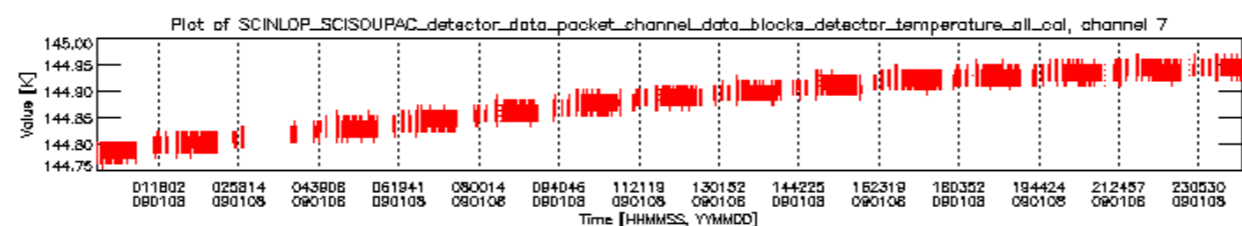
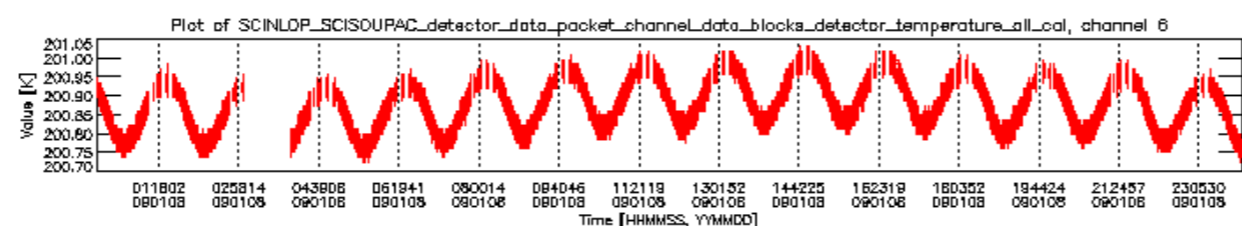
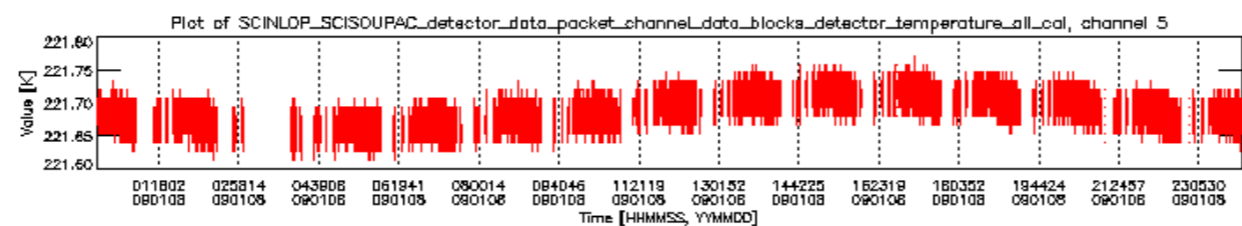
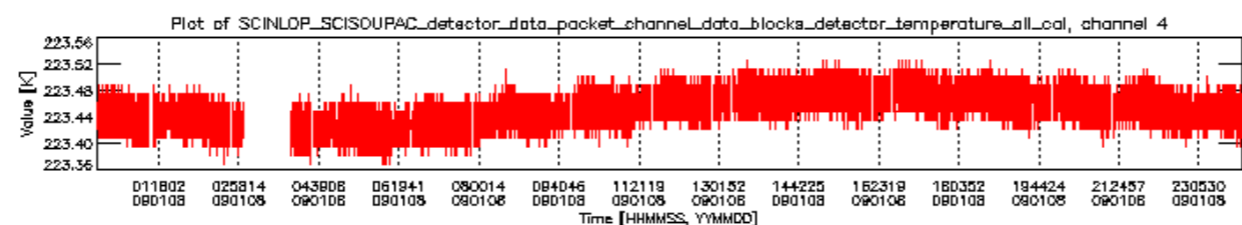
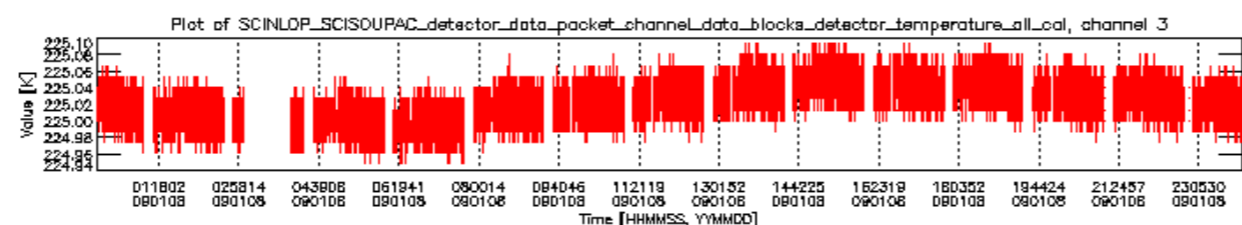
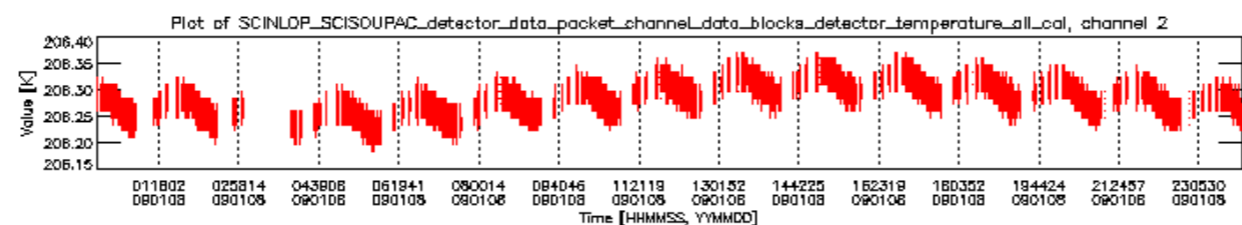
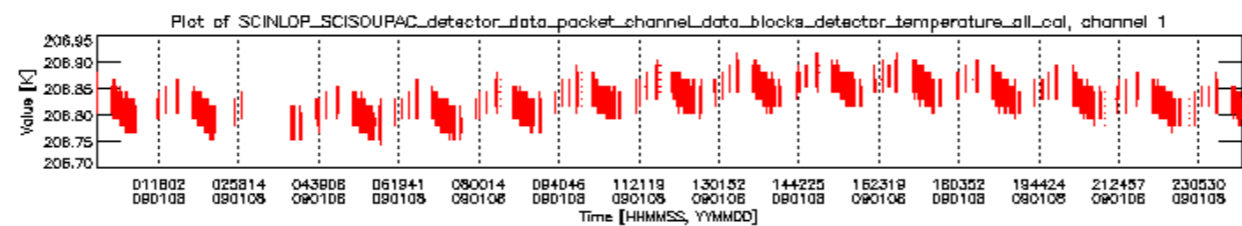


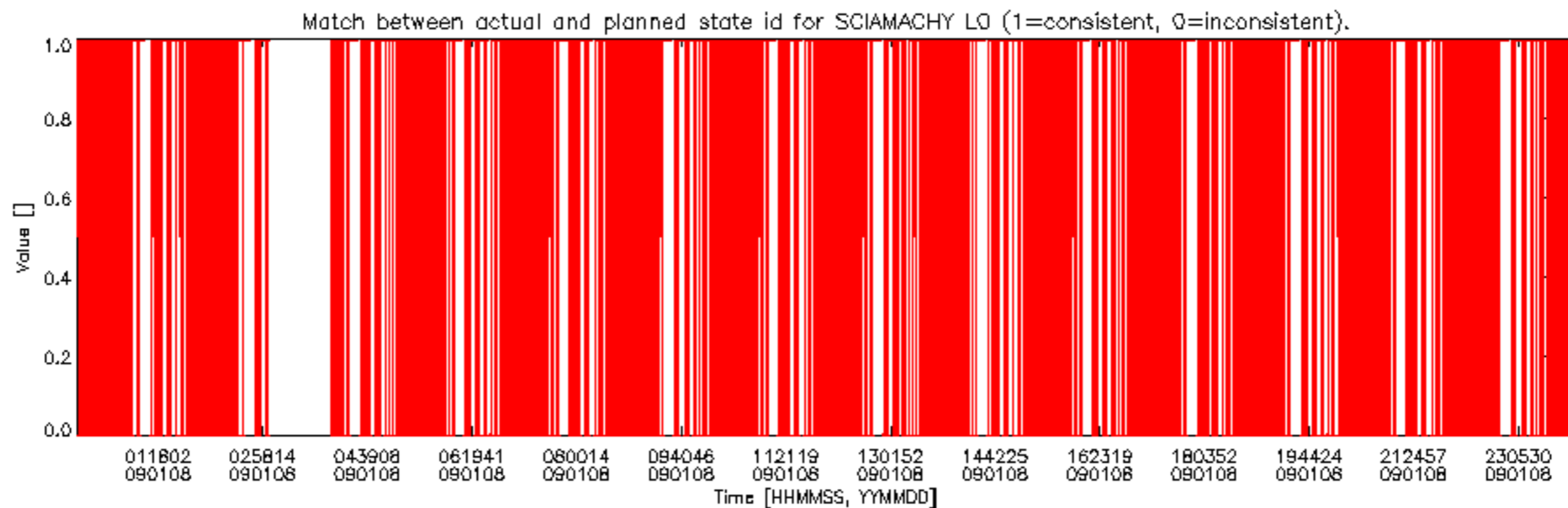
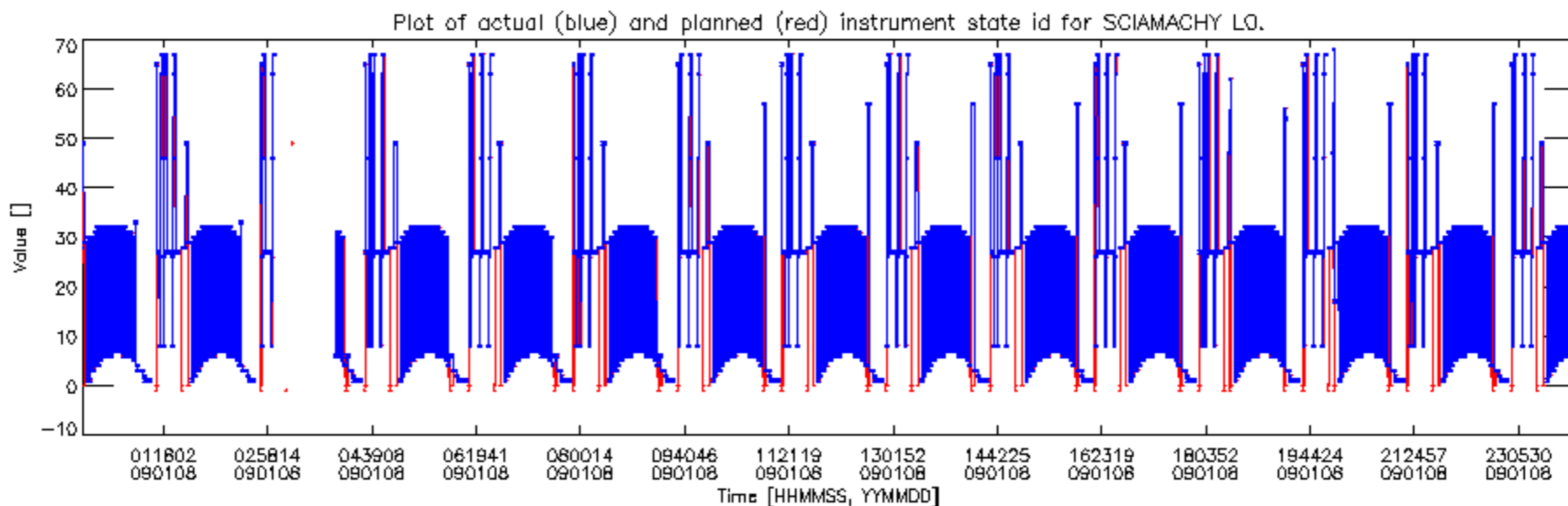












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 08JAN2009.  
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