

## 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	16FEB2009 05:10:30
Data source version	KSPT_L0/4303-N
Processing scope for products	12FEB2009 00:00:00 to 13FEB2009 00:00:00
Start time of first product within scope	11FEB2009 23:27:37
Stop time of last product within scope	13FEB2009 00:28:54
Total number of level 0 products	16
Number of level 0 products with errors	1

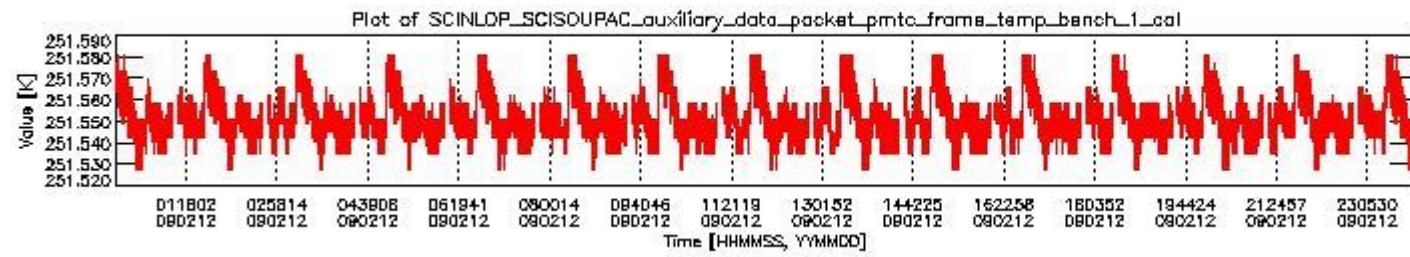
### 0.1.2 Summary per product

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

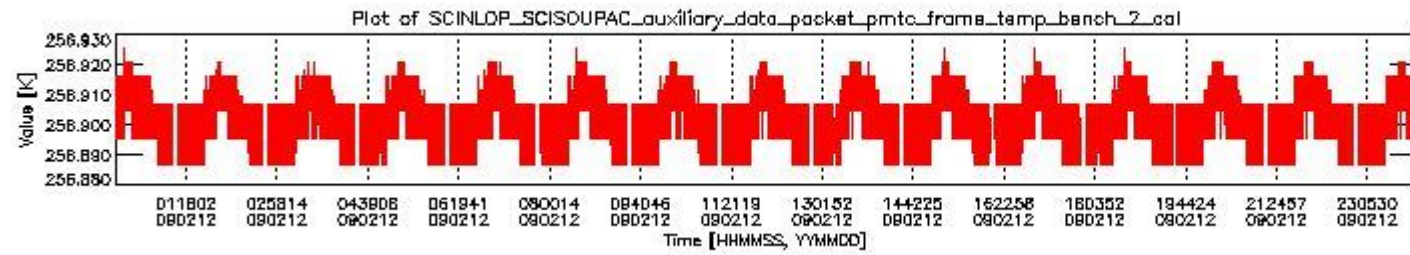
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090211_232737_000055802076_00230_36356_8471.N1	11FEB2009 23:27:37	12FEB2009 01:00:37	0	0	0	0	0
1	SCI_NL__OPNPDE20090212_010812_000047152076_00231_36357_8472.N1	12FEB2009 01:08:12	12FEB2009 02:26:47	0	0	0	0	0
2	SCI_NL__OPNPDE20090212_022647_000054692076_00232_36358_8473.N1	12FEB2009 02:26:47	12FEB2009 03:57:56	0	0	0	0	0
3	SCI_NL__OPNPDE20090212_035756_000061042076_00233_36359_8474.N1	12FEB2009 03:57:56	12FEB2009 05:39:40	0	0	0	0	0
4	SCI_NL__OPNPDE20090212_053940_000060912076_00234_36360_8475.N1	12FEB2009 05:39:40	12FEB2009 07:21:11	0	0	0	0	0
5	SCI_NL__OPNPDK20090212_072111_000038642076_00235_36361_0691.N1	12FEB2009 07:21:11	12FEB2009 08:25:36	0	0	0	0	0
6	SCI_NL__OPNPDK20090212_082440_000062722076_00236_36362_0692.N1	12FEB2009 08:24:40	12FEB2009 10:09:11	0	0	0	0	0
7	SCI_NL__OPNPDK20090212_100815_000060352076_00237_36363_0693.N1	12FEB2009 10:08:15	12FEB2009 11:48:51	0	0	0	0	0
8	SCI_NL__OPNPDK20090212_114755_000058982076_00238_36364_0694.N1	12FEB2009 11:47:55	12FEB2009 13:26:13	1	1	0	0	0
9	SCI_NL__OPNPDK20090212_132517_000059242076_00239_36365_0695.N1	12FEB2009 13:25:17	12FEB2009 15:04:01	0	0	0	0	0
10	SCI_NL__OPNPDK20090212_150305_000058982076_00240_36366_0696.N1	12FEB2009 15:03:05	12FEB2009 16:41:23	0	0	0	0	0
11	SCI_NL__OPNPDK20090212_164123_000060362076_00241_36367_0697.N1	12FEB2009 16:41:23	12FEB2009 18:21:58	0	0	0	0	0
12	SCI_NL__OPNPDK20090212_182006_000059242076_00242_36368_0698.N1	12FEB2009 18:20:06	12FEB2009 19:58:49	0	0	0	0	0
13	SCI_NL__OPNPDE20090212_195849_000041622076_00243_36369_8476.N1	12FEB2009 19:58:49	12FEB2009 21:08:12	0	0	0	0	0
14	SCI_NL__OPNPDE20090212_210703_000060882076_00243_36369_8477.N1	12FEB2009 21:07:03	12FEB2009 22:48:31	0	0	0	0	0
15	SCI_NL__OPNPDE20090212_225553_000055812076_00244_36370_8478.N1	12FEB2009 22:55:53	13FEB2009 00:28:54	0	0	0	0	0

## 0.2 Product Quality Indicators

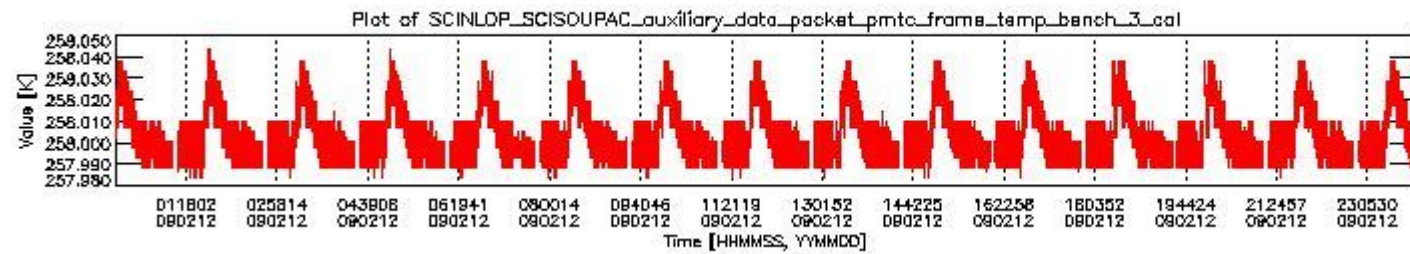
This section shows information about product quality, currently temperatures.



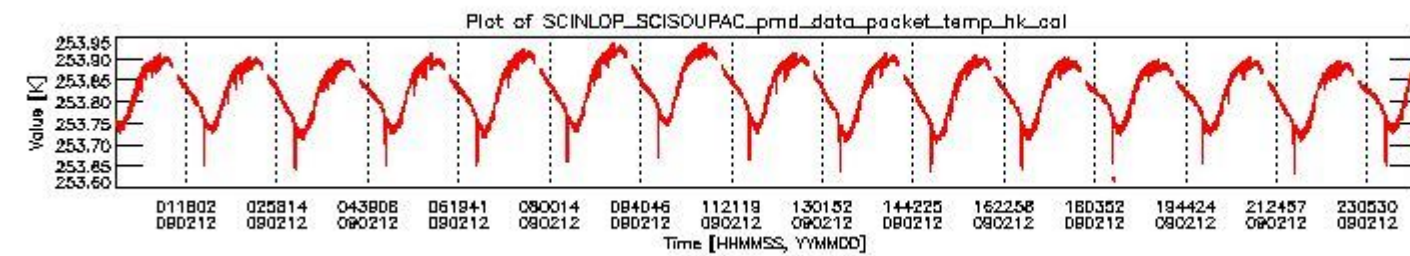
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090212\_0.PNG



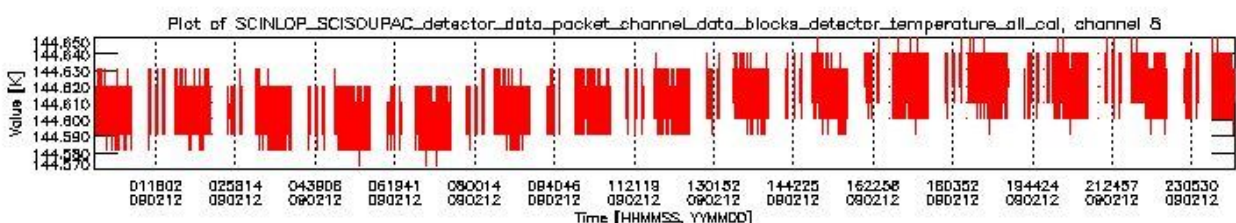
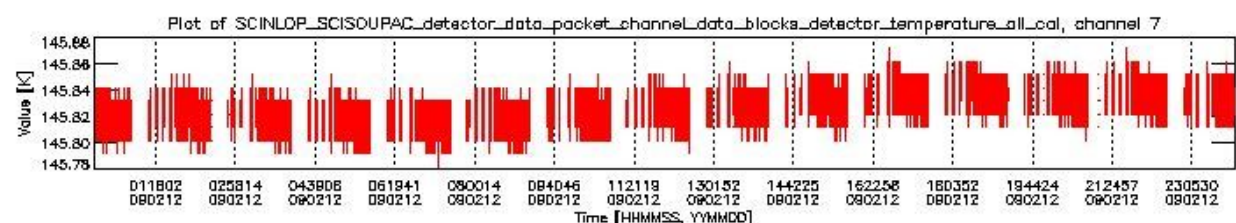
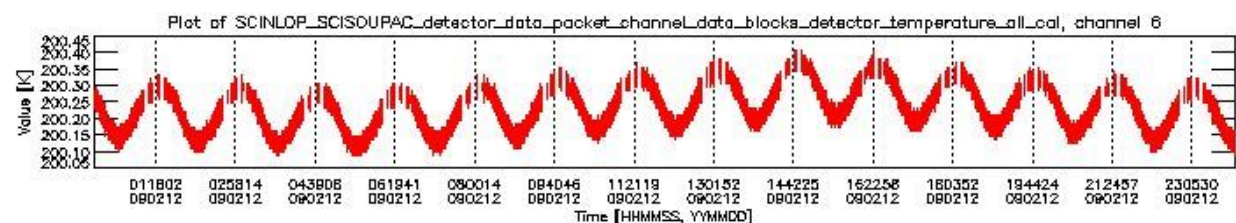
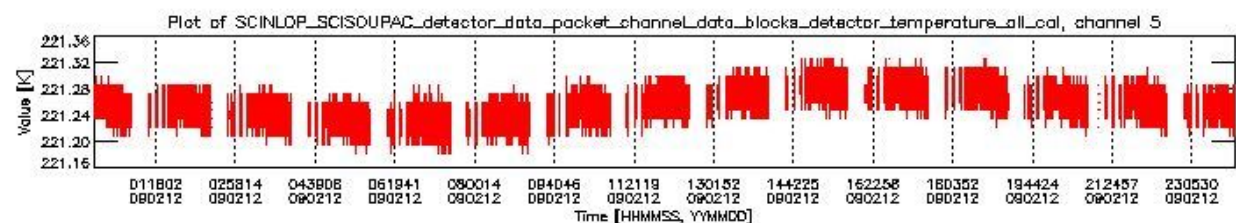
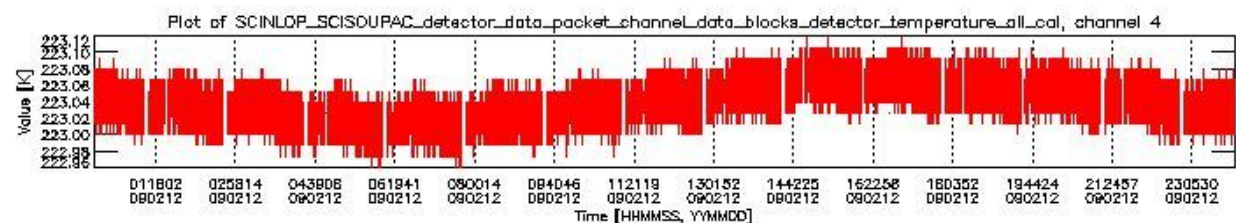
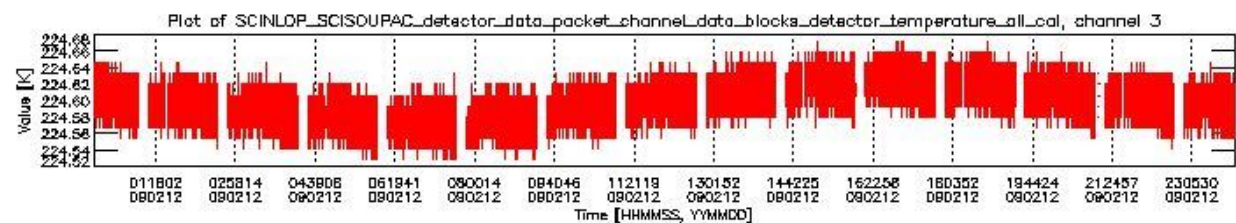
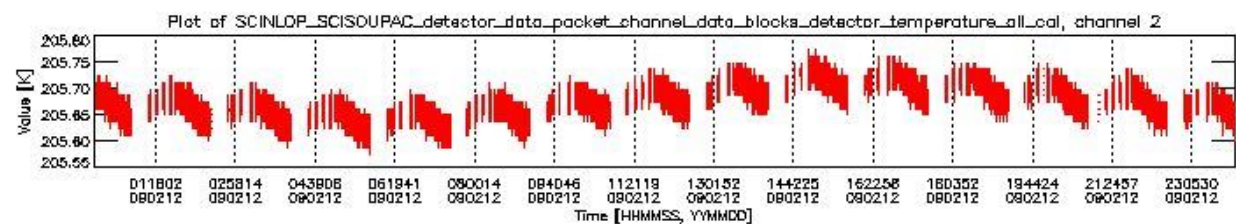
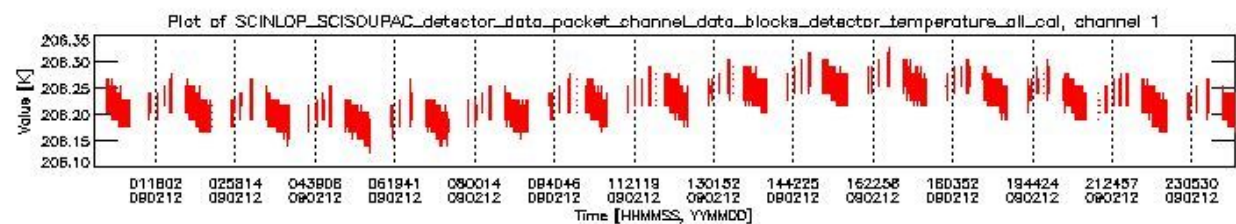
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090212\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090212\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090212\_3.PNG

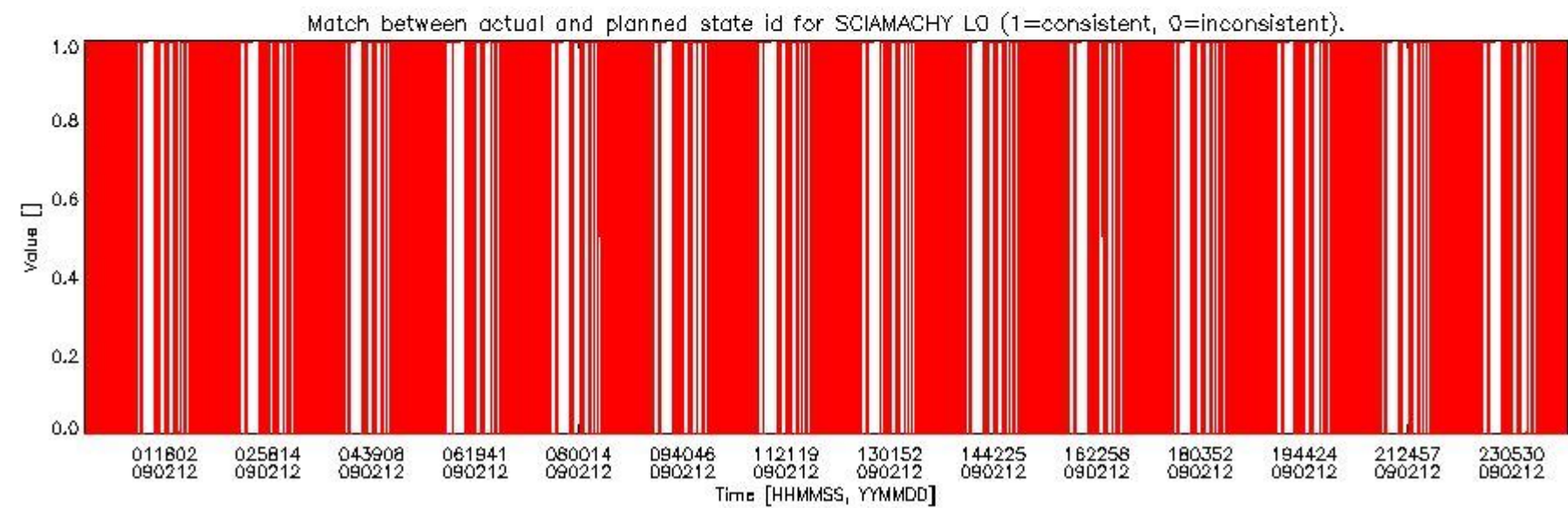
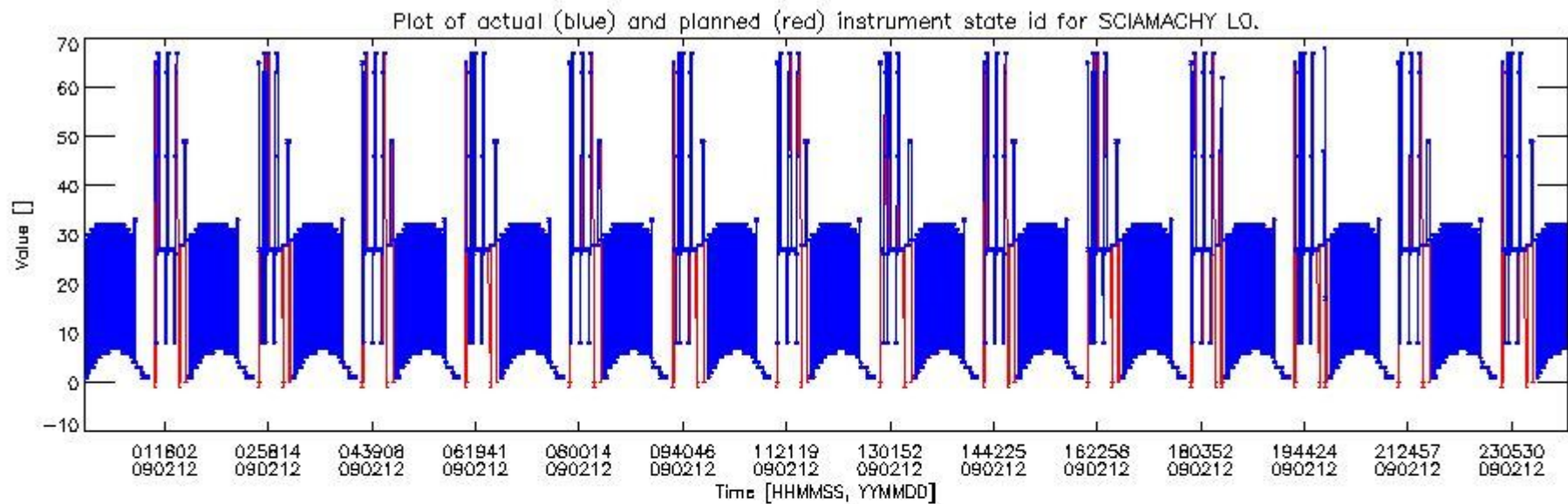


### 0.3 State monitoring

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: **50377**

#	Actual time	Actual value	Planned time	Planned value
0	12FEB2009 00:01:30.169135	1	12FEB2009 00:01:30.169135	29
1	12FEB2009 00:01:30.419103	1	12FEB2009 00:01:30.419103	29
2	12FEB2009 00:01:30.544108	1	12FEB2009 00:01:30.544108	29
3	12FEB2009 00:01:30.669112	1	12FEB2009 00:01:30.669112	29
4	12FEB2009 00:01:30.794116	1	12FEB2009 00:01:30.794116	29
5	12FEB2009 00:01:30.919121	1	12FEB2009 00:01:30.919121	29
6	12FEB2009 00:01:31.044125	1	12FEB2009 00:01:31.044125	29
7	12FEB2009 00:01:31.169129	1	12FEB2009 00:01:31.169129	29
8	12FEB2009 00:01:31.294134	1	12FEB2009 00:01:31.294134	29
9	12FEB2009 00:01:31.419138	1	12FEB2009 00:01:31.419138	29
10	12FEB2009 00:01:31.544142	1	12FEB2009 00:01:31.544142	29
11	12FEB2009 00:01:31.669106	1	12FEB2009 00:01:31.669106	29
12	12FEB2009 00:01:31.794111	1	12FEB2009 00:01:31.794111	29
13	12FEB2009 00:01:31.919115	1	12FEB2009 00:01:31.919115	29
14	12FEB2009 00:01:32.044120	1	12FEB2009 00:01:32.044120	29
15	12FEB2009 00:01:32.169124	1	12FEB2009 00:01:32.169124	29
16	12FEB2009 00:01:32.294128	1	12FEB2009 00:01:32.294128	29
17	12FEB2009 00:01:32.419133	1	12FEB2009 00:01:32.419133	29
18	12FEB2009 00:01:32.544137	1	12FEB2009 00:01:32.544137	29
19	12FEB2009 00:01:32.669141	1	12FEB2009 00:01:32.669141	29
...	...	...	...	...

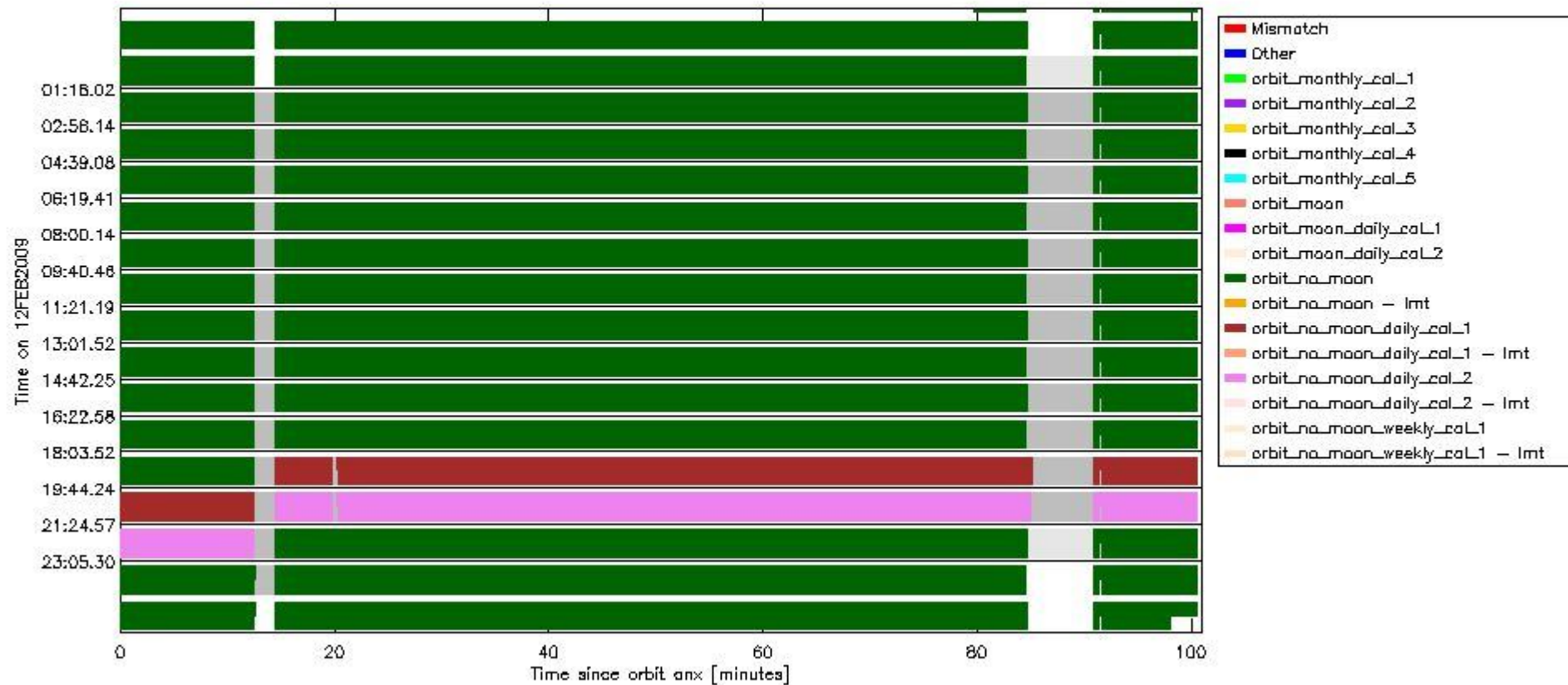


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090212\_5.PNG

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 12FEB2009.  
 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\_20090212\_6.PNG

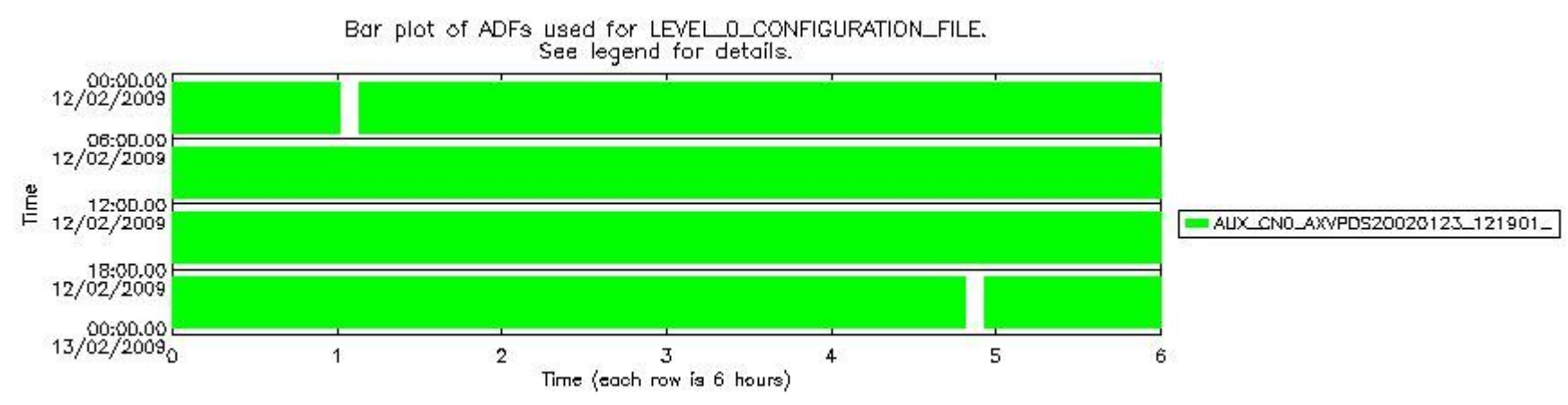
## 0.4 ADF monitoring

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

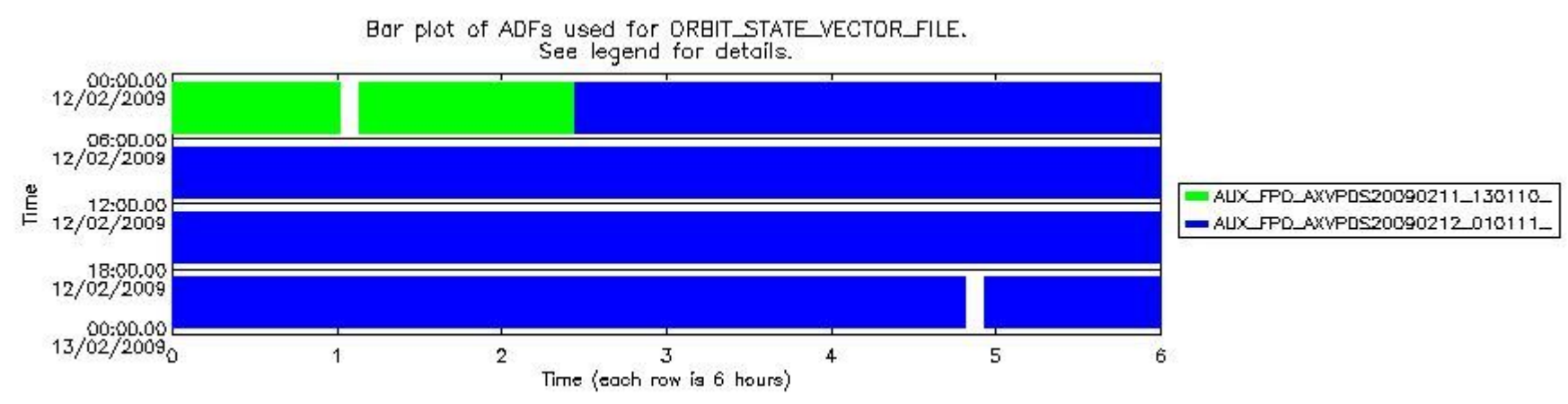
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

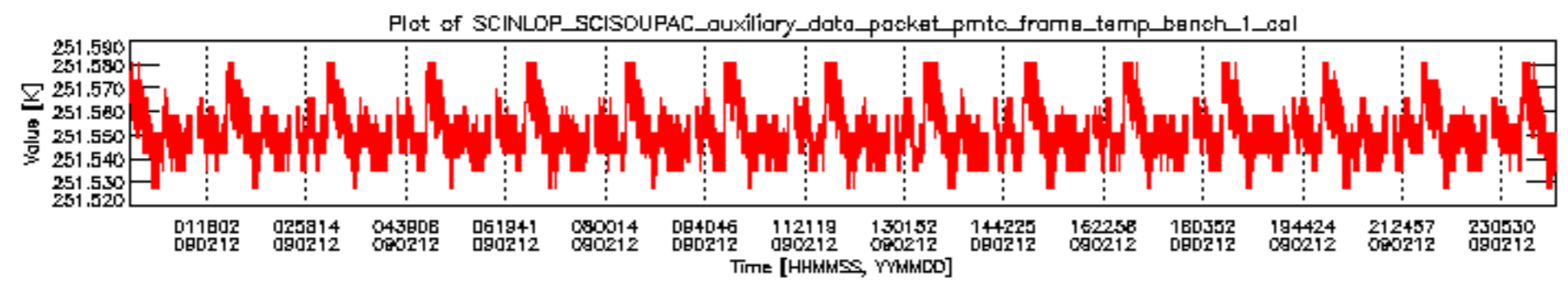
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090211_130110_20090210_190700_20090220_203315
2	AUX_FPO_AXVPDS20090212_010111_20090211_183523_20090221_200138



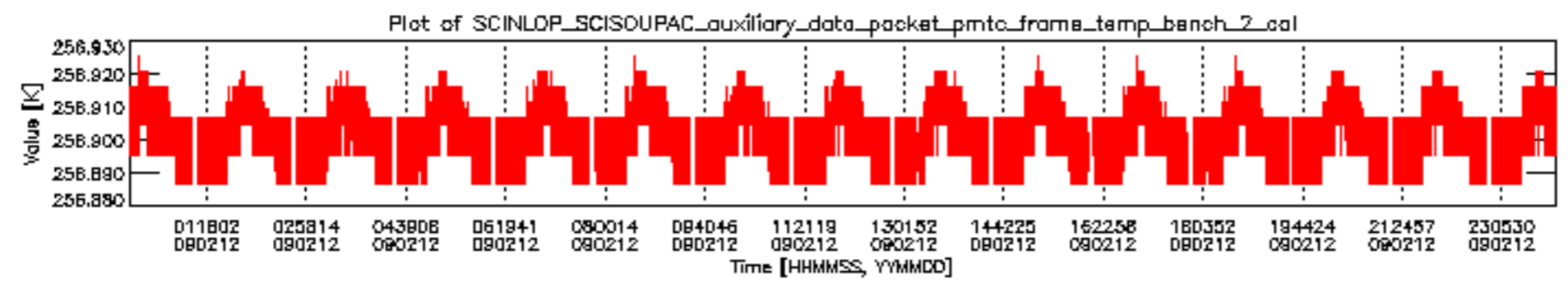
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090212\_7.PNG

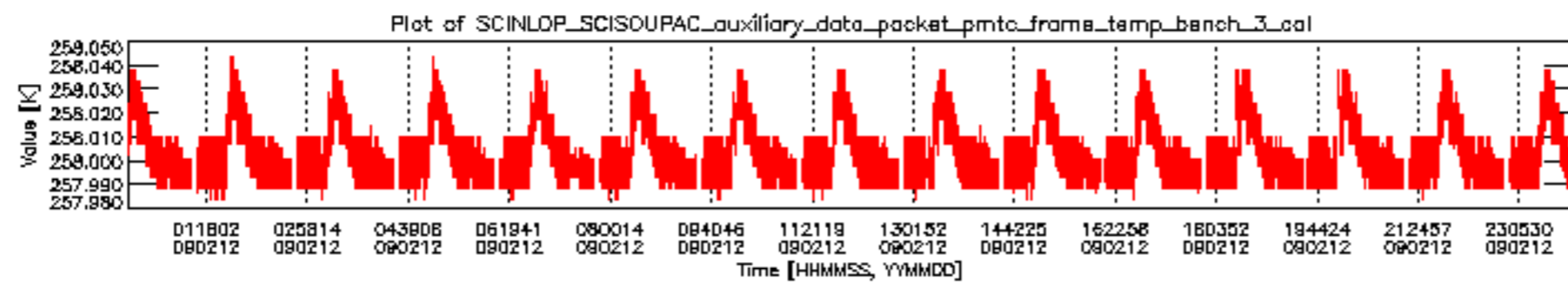


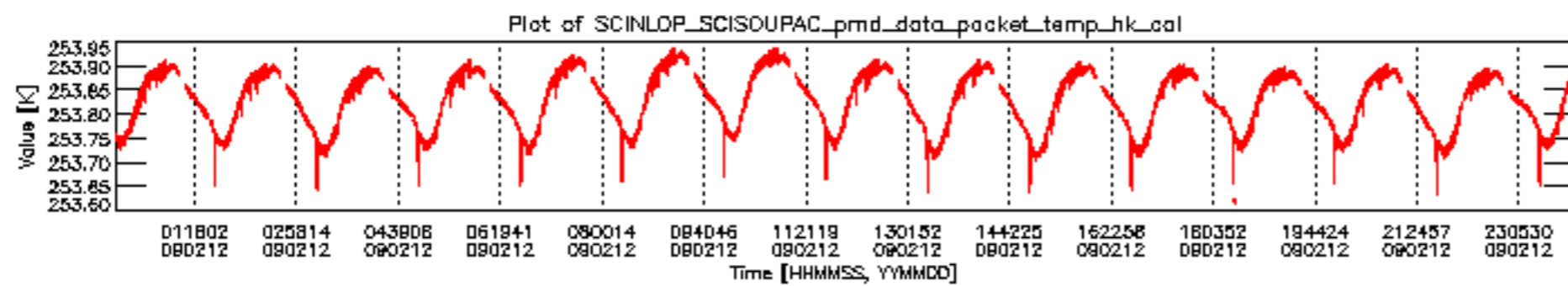
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090212\_8.PNG

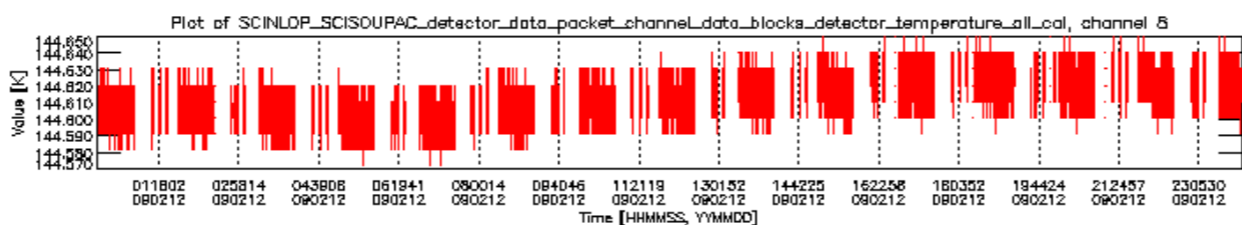
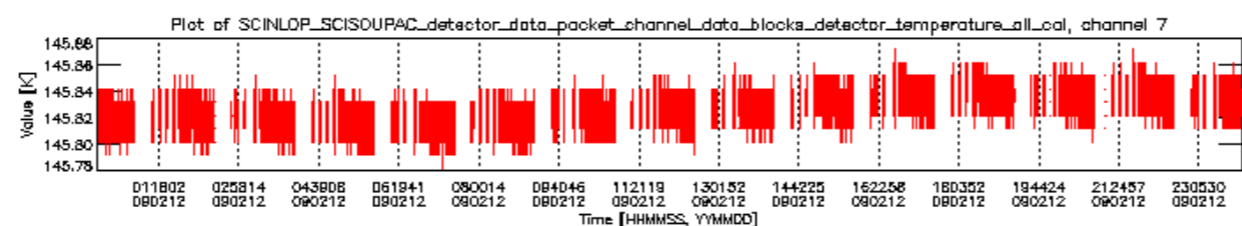
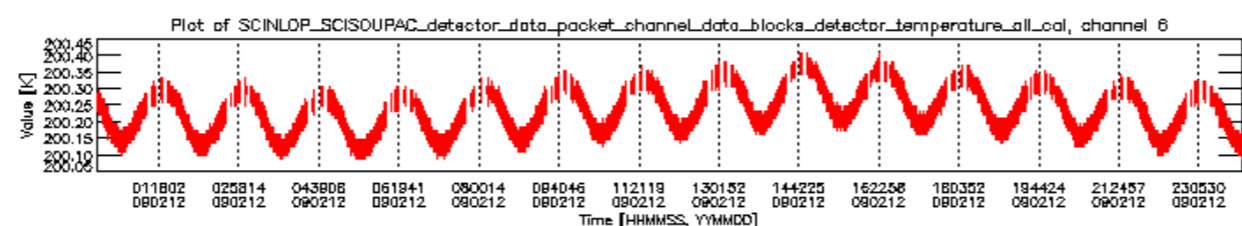
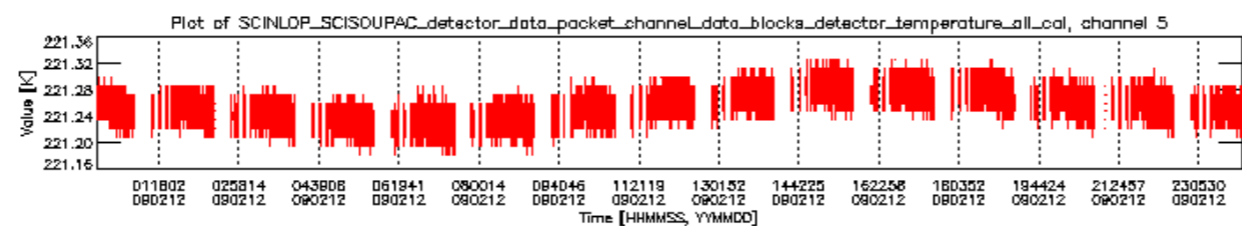
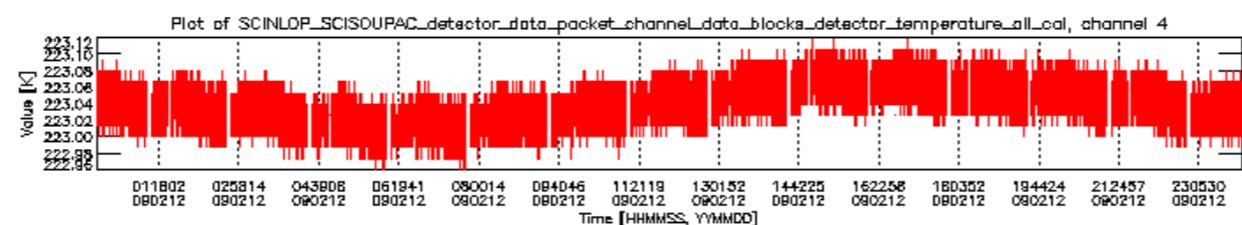
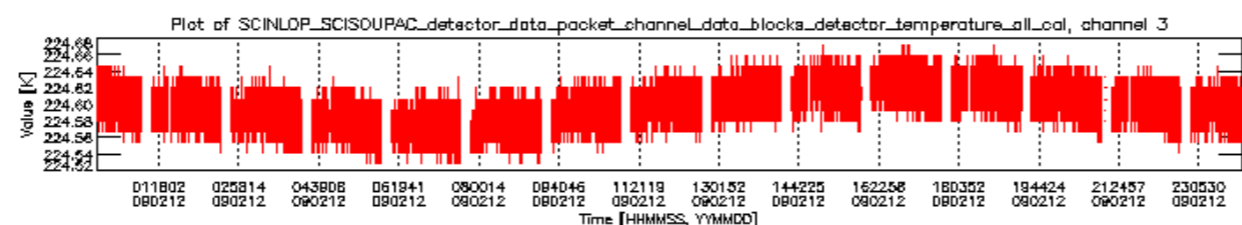
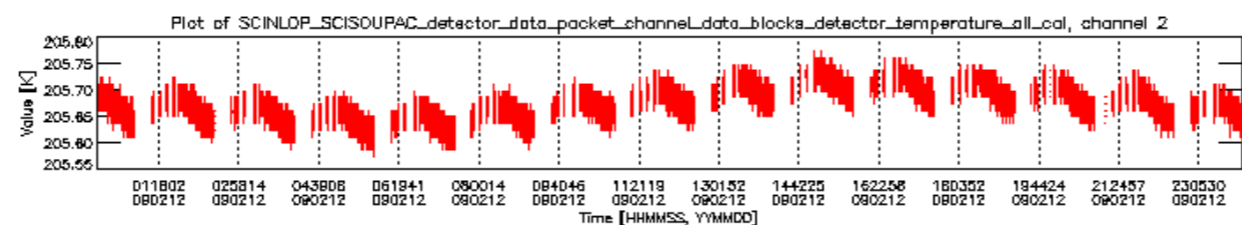
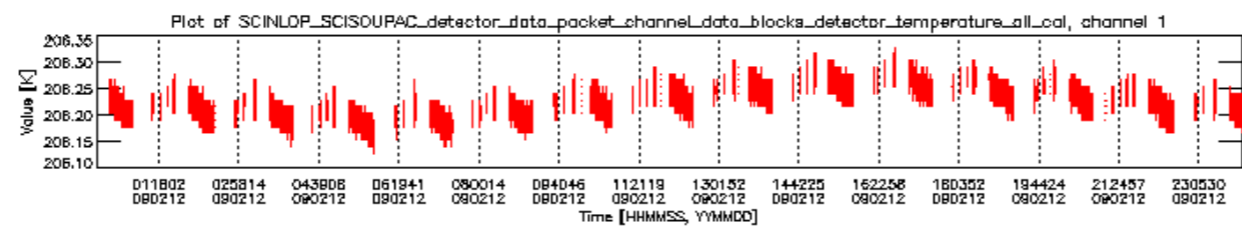


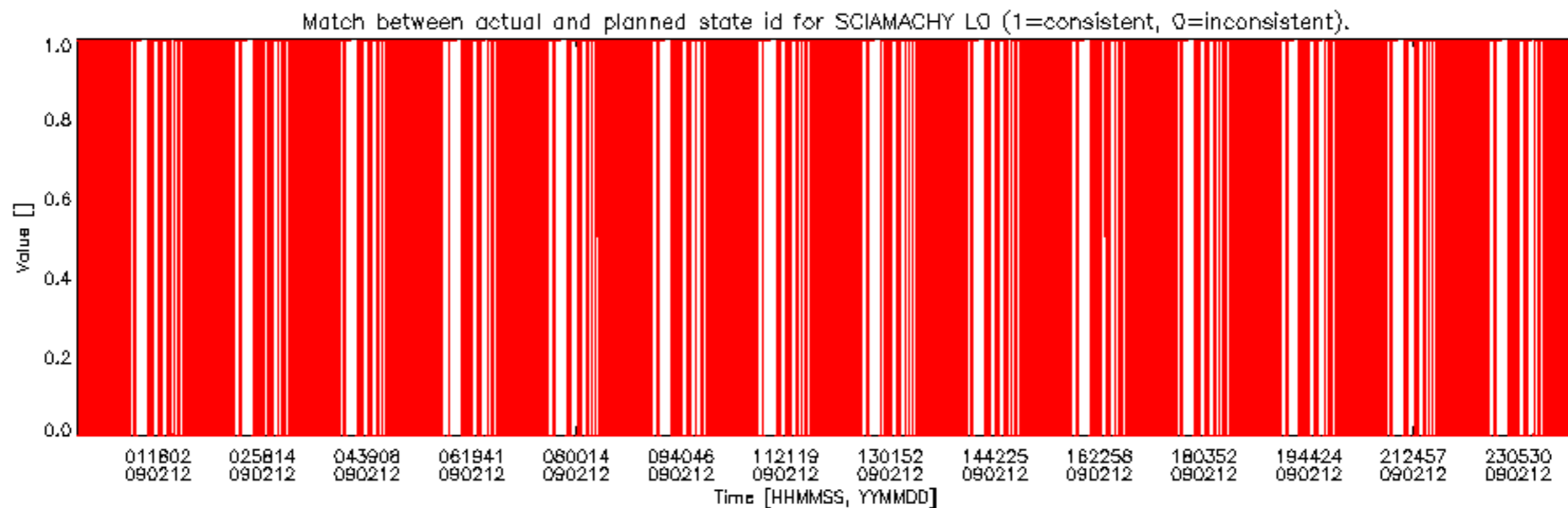
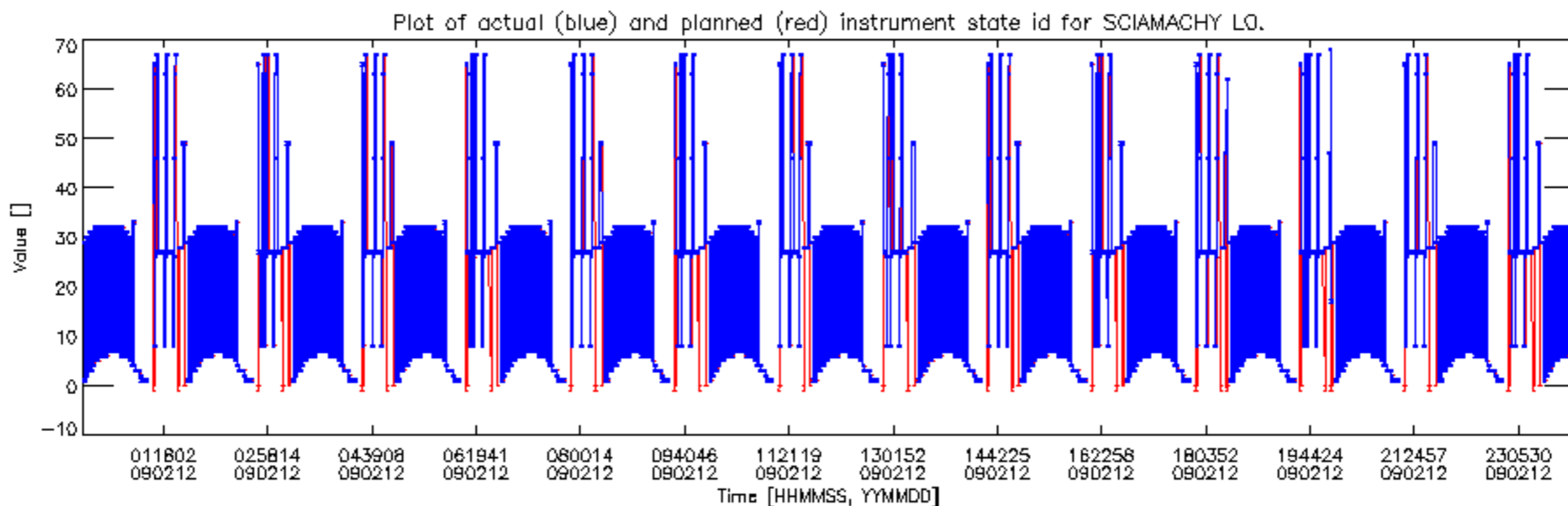




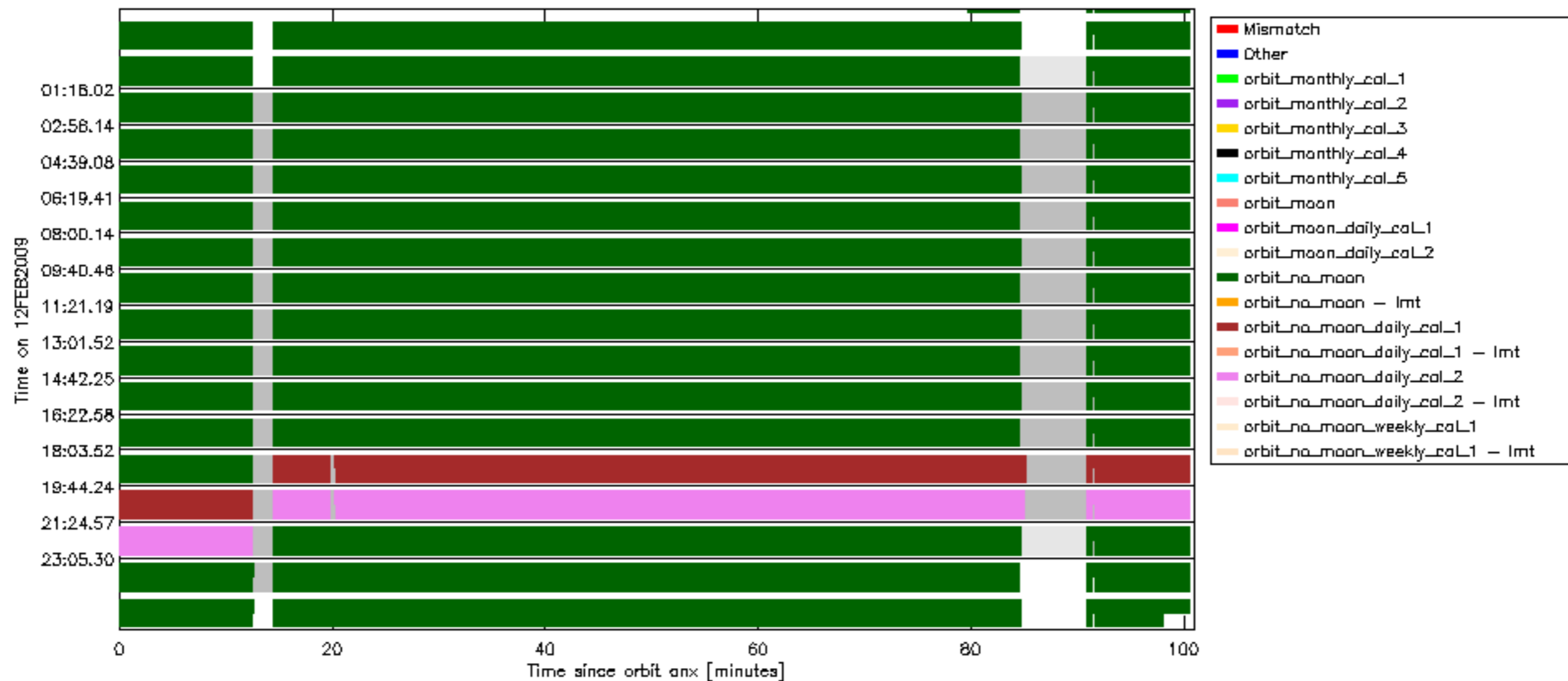


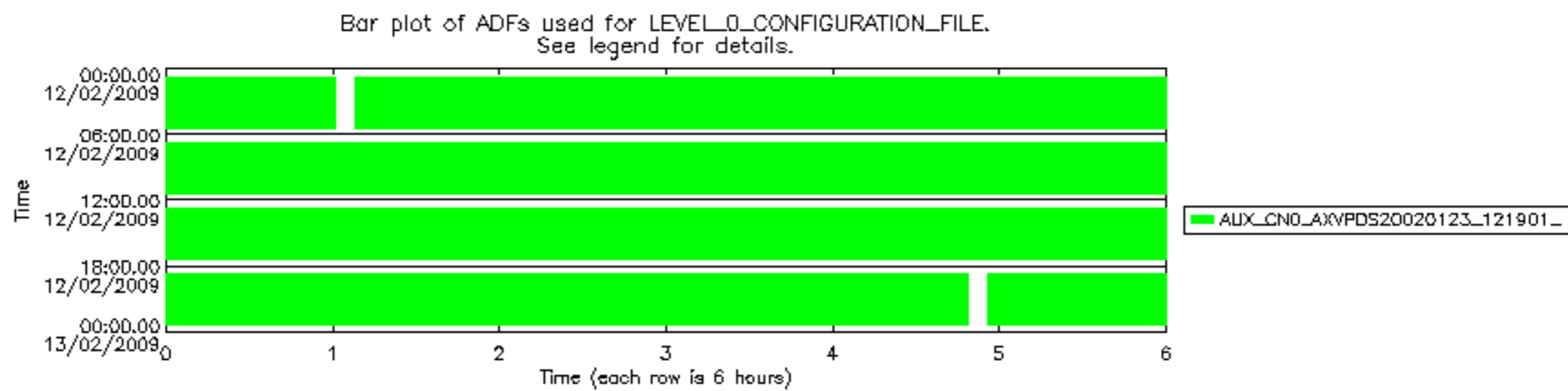






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 12FEB2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

