

## 0. SCIAMACHY Daily Report for level 0 products

### [0.1 General Info](#)

### [0.2 Product Quality Indicators](#)

### [0.3 State monitoring](#)

### [0.4 ADF monitoring](#)

## 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	21DEC2008 05:16:51
Data source version	KSPT_L0/4303-N
Processing scope for products	17DEC2008 00:00:00 to 18DEC2008 00:00:00
Start time of first product within scope	16DEC2008 23:21:36
Stop time of last product within scope	18DEC2008 00:24:03
Total number of level 0 products	16
Number of level 0 products with errors	0

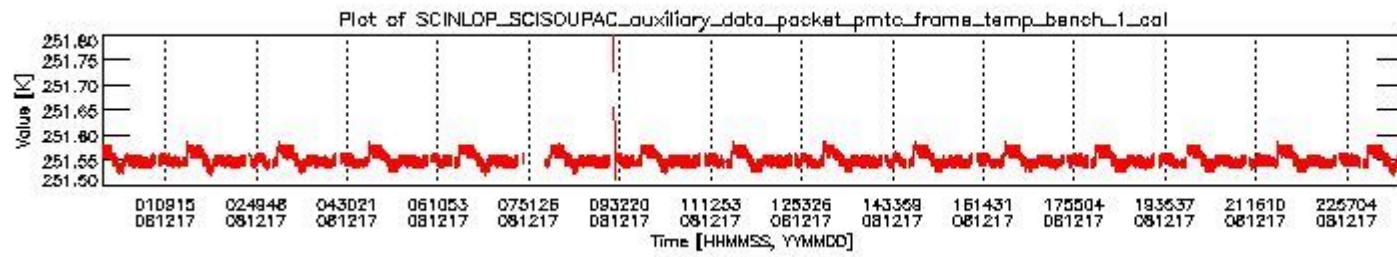
### 0.1.2 Summary per product

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

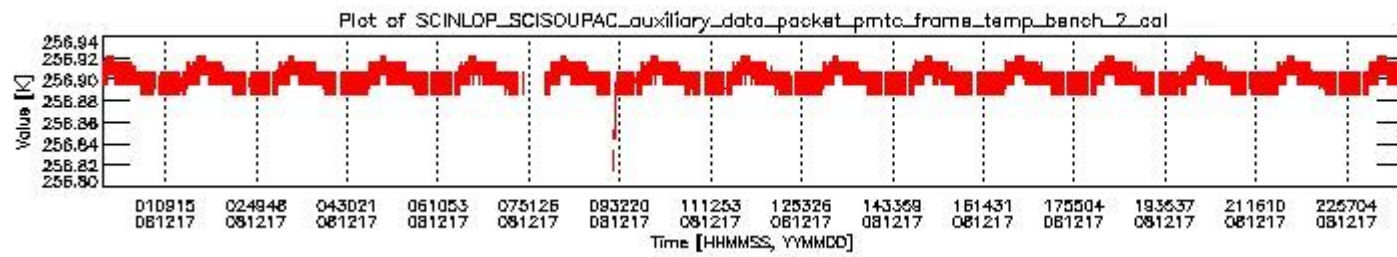
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081216_232136_000056442074_00416_35540_8110.N1	16DEC2008 23:21:36	17DEC2008 00:55:40	0	0	0	0	0
1	SCI_NL__OPNPDE20081217_010212_000042802074_00417_35541_8111.N1	17DEC2008 01:02:12	17DEC2008 02:13:32	0	0	0	0	0
2	SCI_NL__OPNPDE20081217_021236_000058992074_00418_35542_8112.N1	17DEC2008 02:12:36	17DEC2008 03:50:55	0	0	0	0	0
3	SCI_NL__OPNPDE20081217_034959_000061052074_00419_35543_8113.N1	17DEC2008 03:49:59	17DEC2008 05:31:44	0	0	0	0	0
4	SCI_NL__OPNPDE20081217_053144_000060232074_00420_35544_8114.N1	17DEC2008 05:31:44	17DEC2008 07:12:07	0	0	0	0	0
5	SCI_NL__OPNPDK20081217_071111_000041142074_00421_35545_0212.N1	17DEC2008 07:11:11	17DEC2008 08:19:45	0	0	0	0	0
6	SCI_NL__OPNPDK20081217_081836_000060922074_00422_35546_0213.N1	17DEC2008 08:18:36	17DEC2008 10:00:08	0	0	0	0	0
7	SCI_NL__OPNPDK20081217_095912_000060362074_00423_35547_0214.N1	17DEC2008 09:59:12	17DEC2008 11:39:48	0	0	0	0	0
8	SCI_NL__OPNPDK20081217_113756_000060362074_00424_35548_0215.N1	17DEC2008 11:37:56	17DEC2008 13:18:32	0	0	0	0	0
9	SCI_NL__OPNPDK20081217_131736_000058982074_00425_35549_0216.N1	17DEC2008 13:17:36	17DEC2008 14:55:54	0	0	0	0	0
10	SCI_NL__OPNPDK20081217_145554_000059232074_00426_35550_0217.N1	17DEC2008 14:55:54	17DEC2008 16:34:38	0	0	0	0	0
11	SCI_NL__OPNPDK20081217_163246_000057712074_00427_35551_0218.N1	17DEC2008 16:32:46	17DEC2008 18:08:57	0	0	0	0	0
12	SCI_NL__OPNPDK20081217_180857_000060762074_00428_35552_0219.N1	17DEC2008 18:08:57	17DEC2008 19:50:12	0	0	0	0	0
13	SCI_NL__OPNPDE20081217_195358_000038832074_00429_35553_8115.N1	17DEC2008 19:53:58	17DEC2008 20:58:41	0	0	0	0	0
14	SCI_NL__OPNPDE20081217_205732_000063682074_00429_35553_8116.N1	17DEC2008 20:57:32	17DEC2008 22:43:40	0	0	0	0	0
15	SCI_NL__OPNPDE20081217_225000_000056432074_00430_35554_8117.N1	17DEC2008 22:50:00	18DEC2008 00:24:03	0	0	0	0	0

## 0.2 Product Quality Indicators

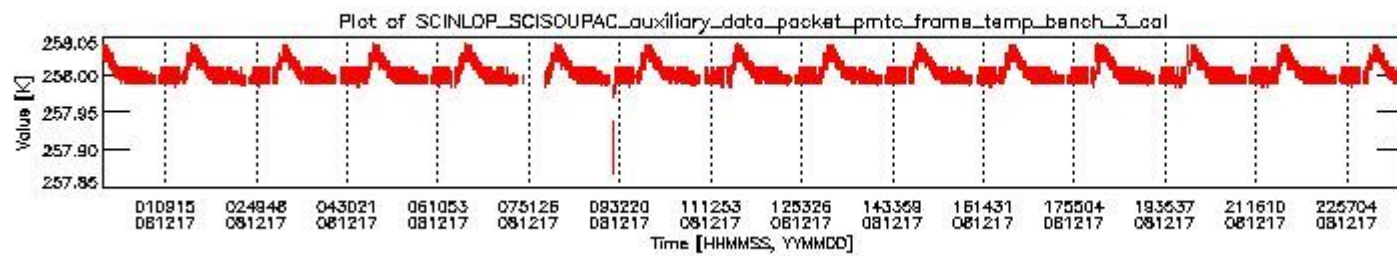
This section shows information about product quality, currently temperatures.



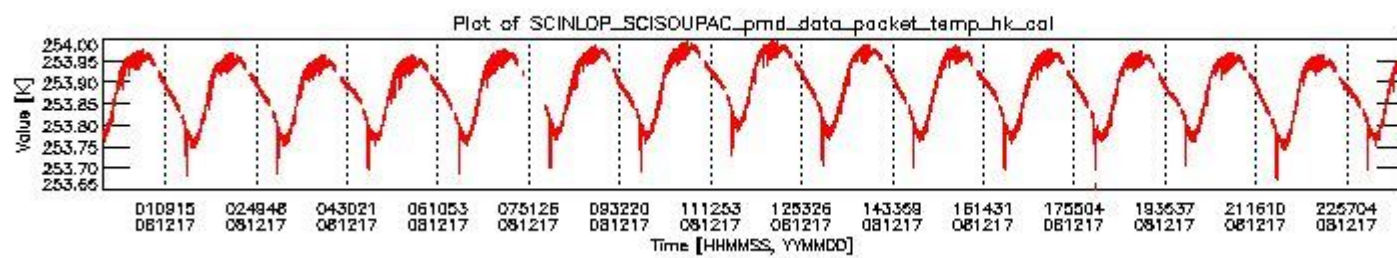
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081217\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081217\_1.PNG

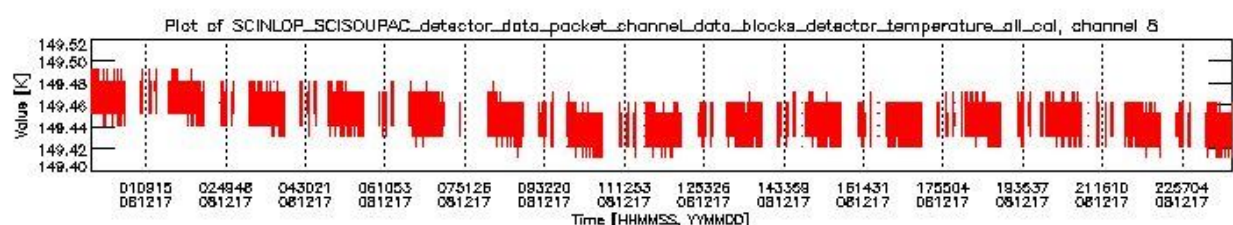
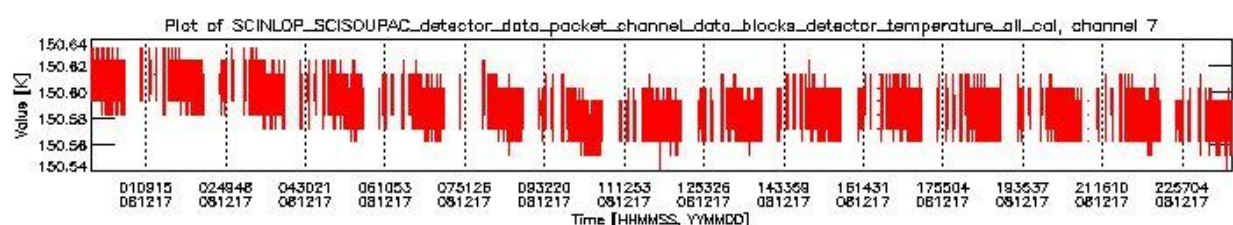
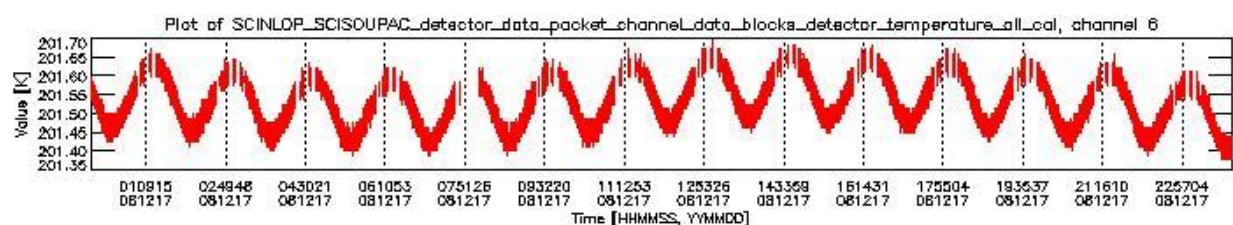
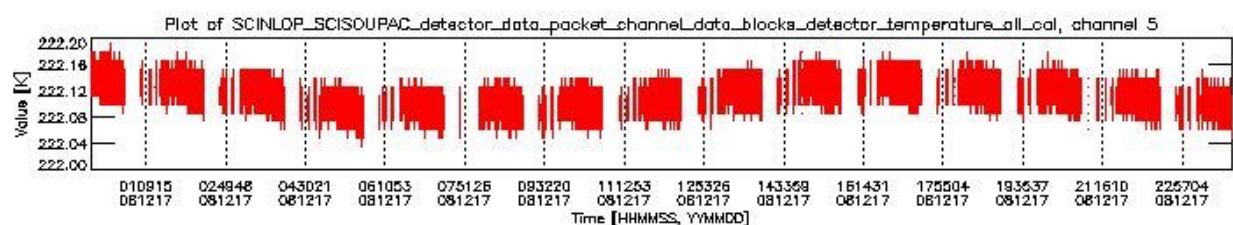
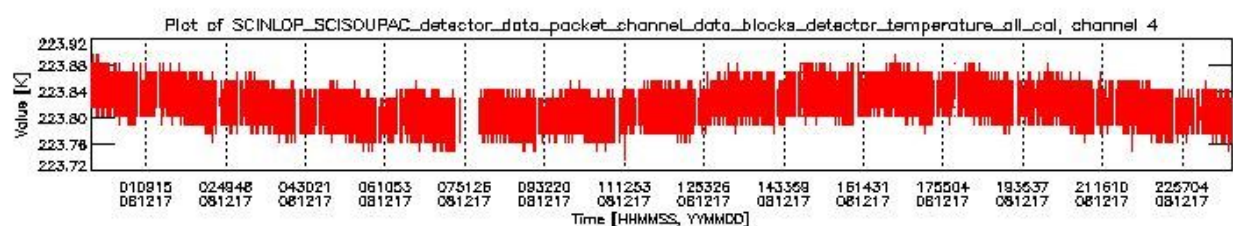
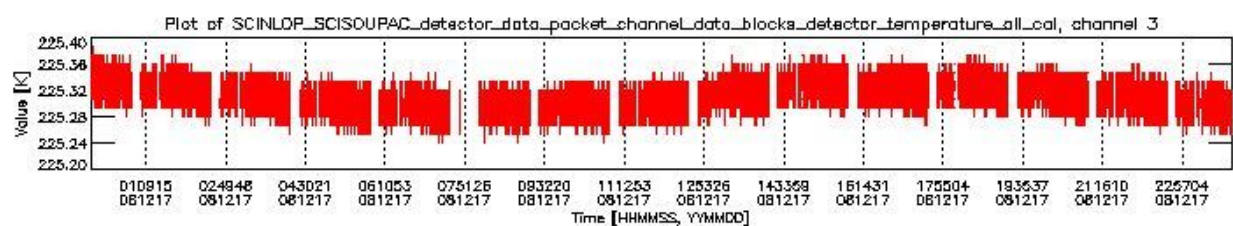
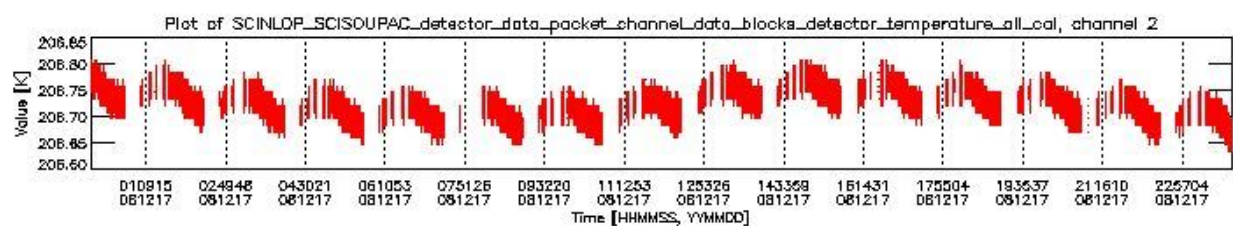
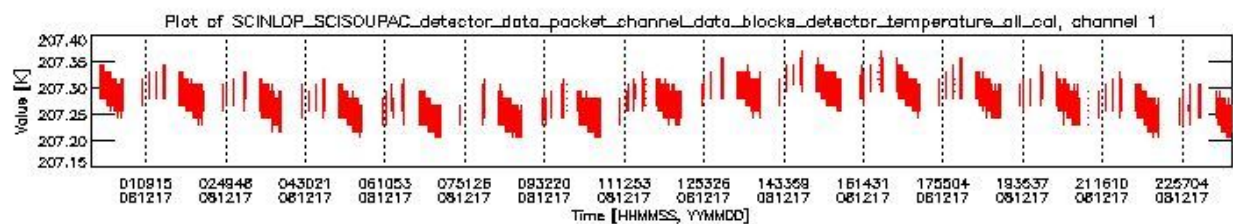


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081217\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081217\_3.PNG



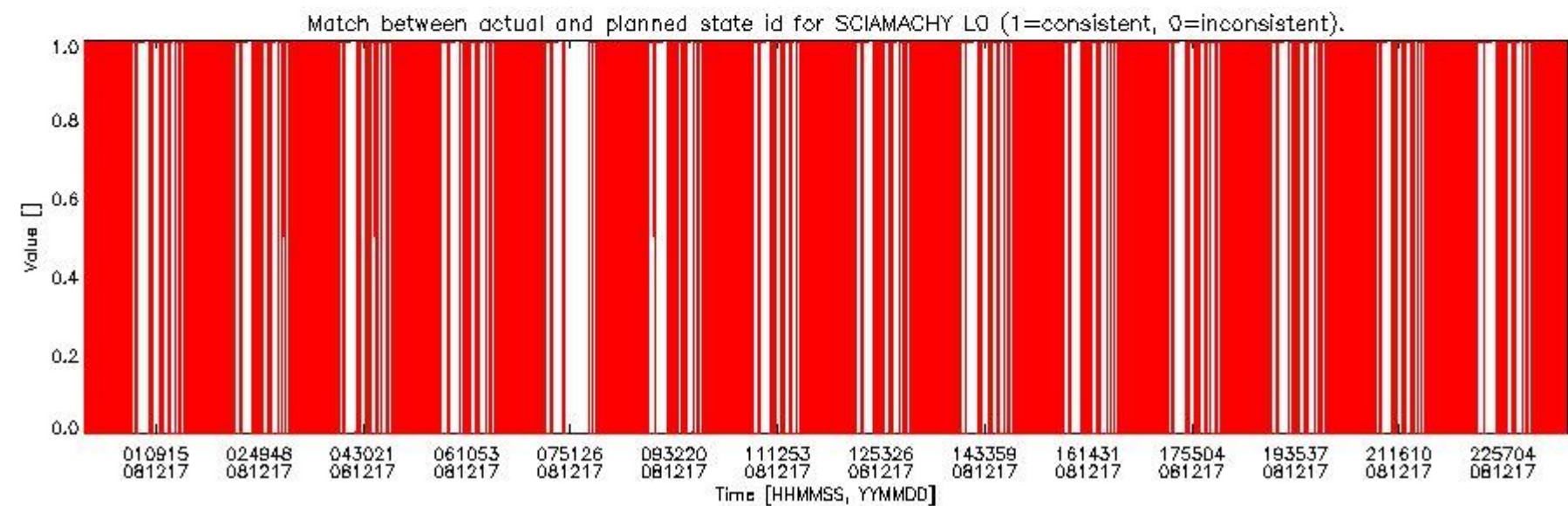
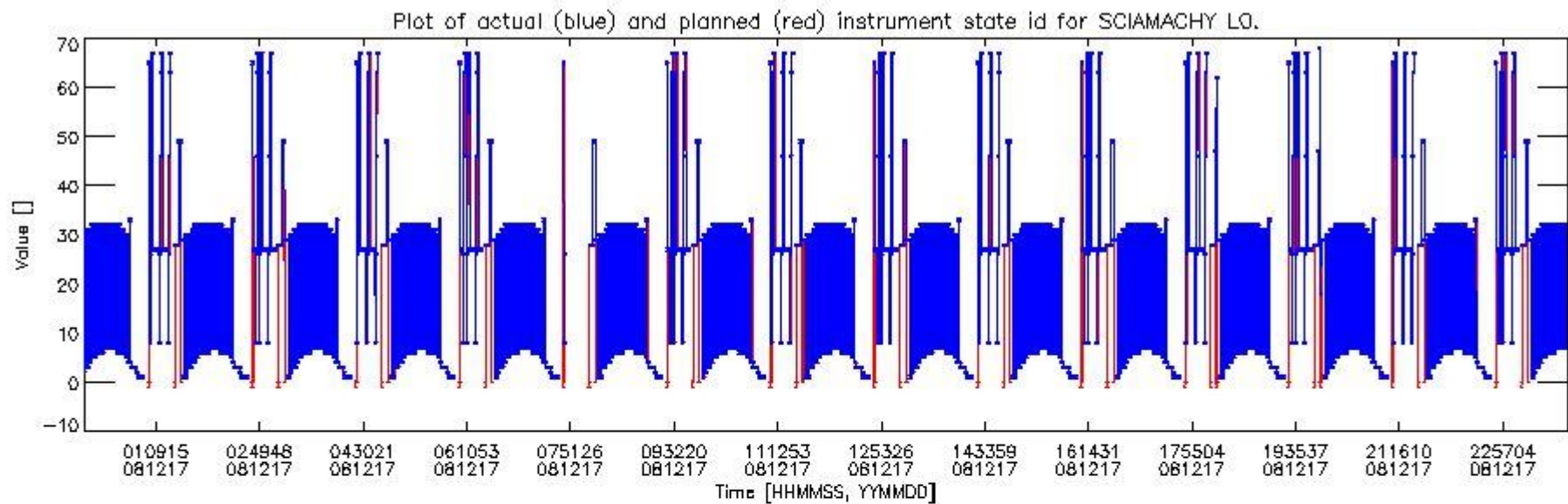


### 0.3 State monitoring

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: **47845**

#	Actual time	Actual value	Planned time	Planned value
0	17DEC2008 00:00:41.816792	3	17DEC2008 00:00:41.816792	30
1	17DEC2008 00:00:42.066801	3	17DEC2008 00:00:42.066801	30
2	17DEC2008 00:00:42.191805	3	17DEC2008 00:00:42.191805	30
3	17DEC2008 00:00:42.316809	3	17DEC2008 00:00:42.316809	30
4	17DEC2008 00:00:42.441814	3	17DEC2008 00:00:42.441814	30
5	17DEC2008 00:00:42.566818	3	17DEC2008 00:00:42.566818	30
6	17DEC2008 00:00:42.691782	3	17DEC2008 00:00:42.691782	30
7	17DEC2008 00:00:42.816786	3	17DEC2008 00:00:42.816786	30
8	17DEC2008 00:00:42.941791	3	17DEC2008 00:00:42.941791	30
9	17DEC2008 00:00:43.066795	3	17DEC2008 00:00:43.066795	30
10	17DEC2008 00:00:43.191800	3	17DEC2008 00:00:43.191800	30
11	17DEC2008 00:00:43.316804	3	17DEC2008 00:00:43.316804	30
12	17DEC2008 00:00:43.441808	3	17DEC2008 00:00:43.441808	30
13	17DEC2008 00:00:43.566813	3	17DEC2008 00:00:43.566813	30
14	17DEC2008 00:00:43.691817	3	17DEC2008 00:00:43.691817	30
15	17DEC2008 00:00:43.816821	3	17DEC2008 00:00:43.816821	30
16	17DEC2008 00:00:43.941785	3	17DEC2008 00:00:43.941785	30
17	17DEC2008 00:00:44.066790	3	17DEC2008 00:00:44.066790	30
18	17DEC2008 00:00:44.191794	3	17DEC2008 00:00:44.191794	30
19	17DEC2008 00:00:44.316798	3	17DEC2008 00:00:44.316798	30
...	...	...	...	...



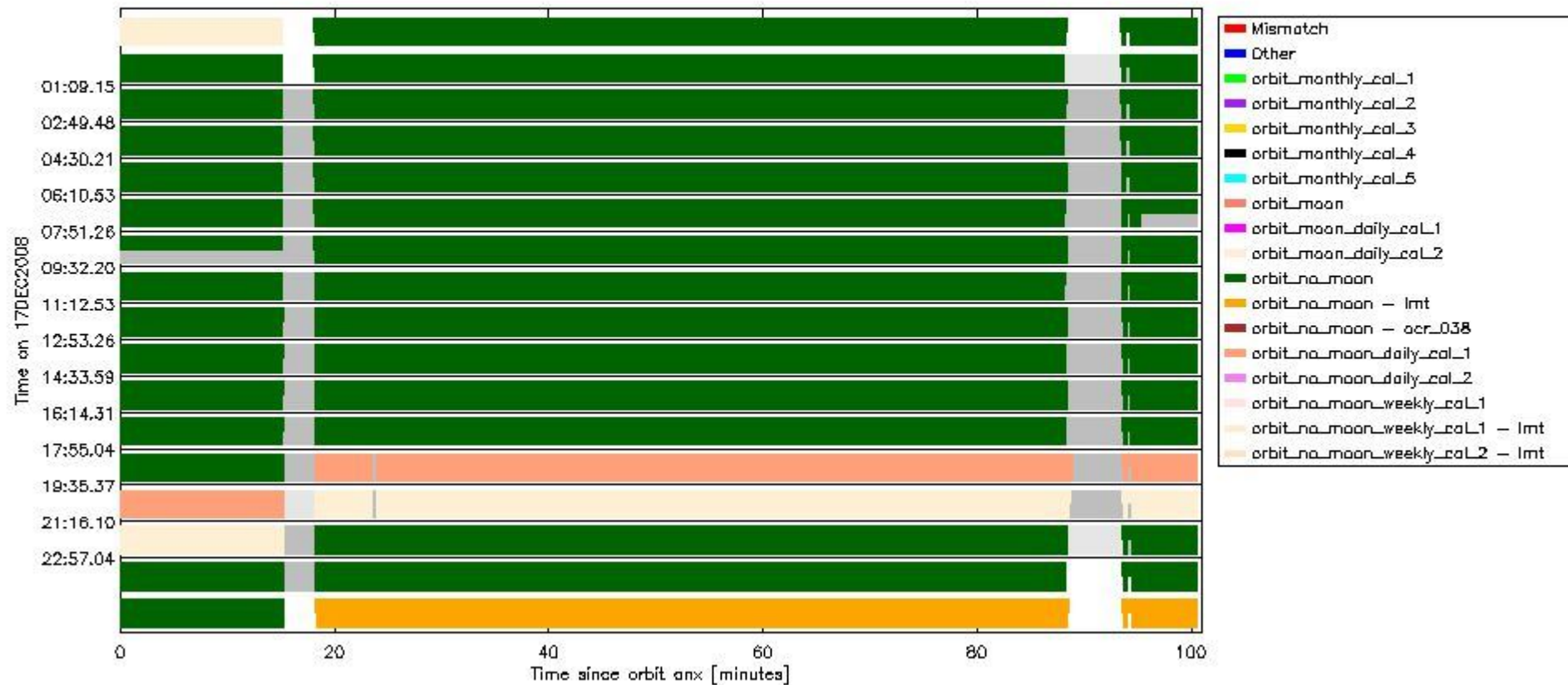
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081217\_5.PNG

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 17DEC2008.  
 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\_20081217\_6.PNG

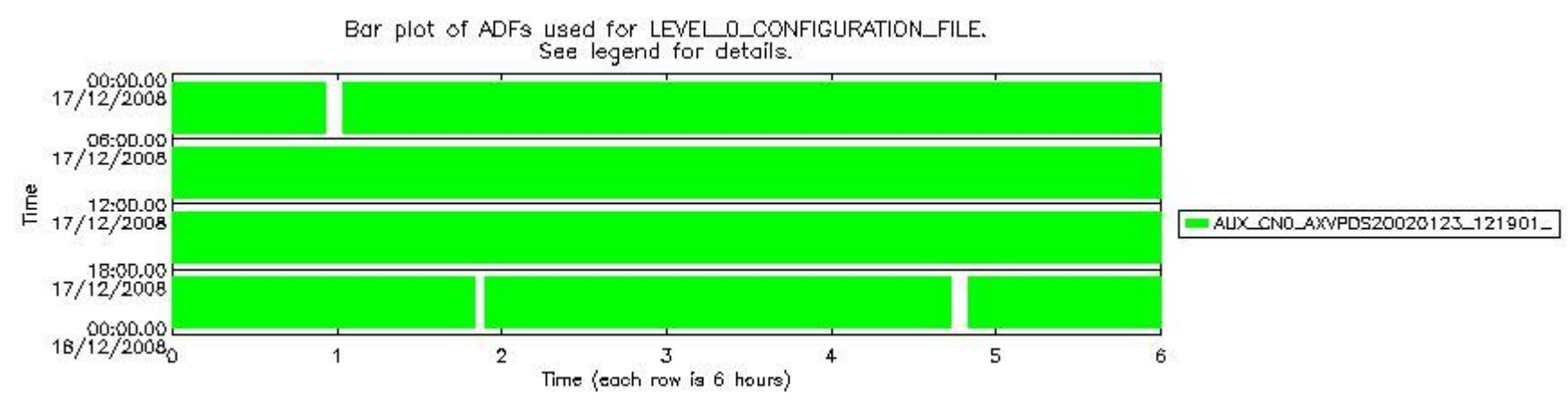
## 0.4 ADF monitoring

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

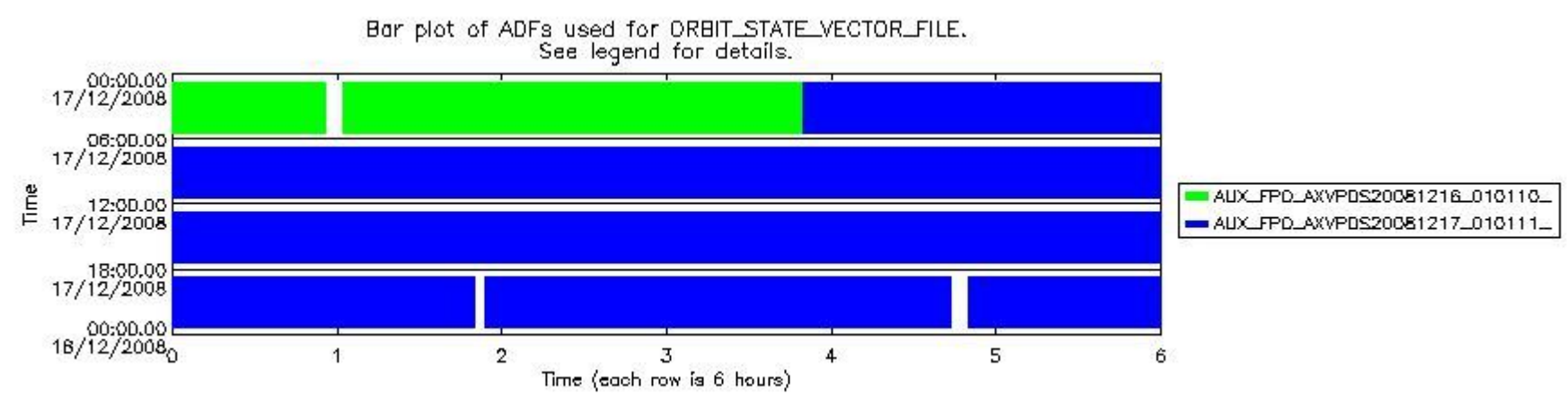
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

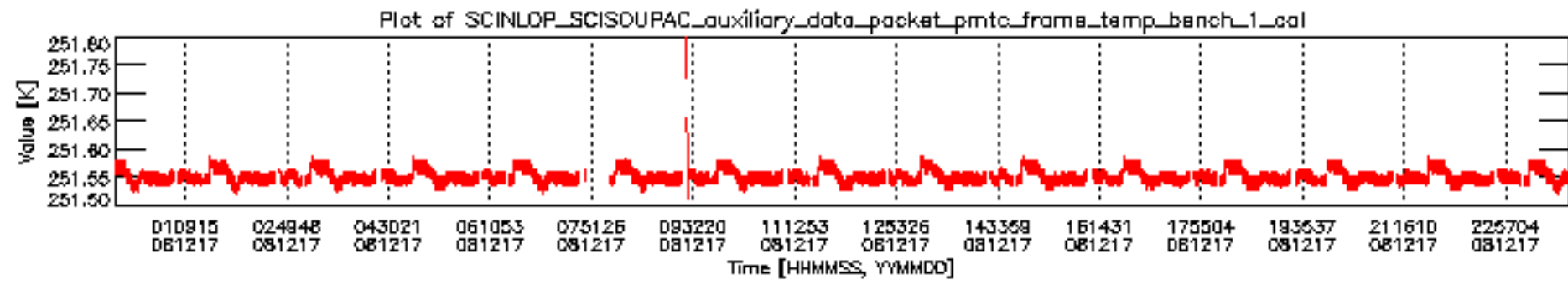
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20081216_010110_20081215_185824_20081225_202438</b>
2	<b>AUX_FPO_AXVPDS20081217_010111_20081216_182647_20081226_213337</b>



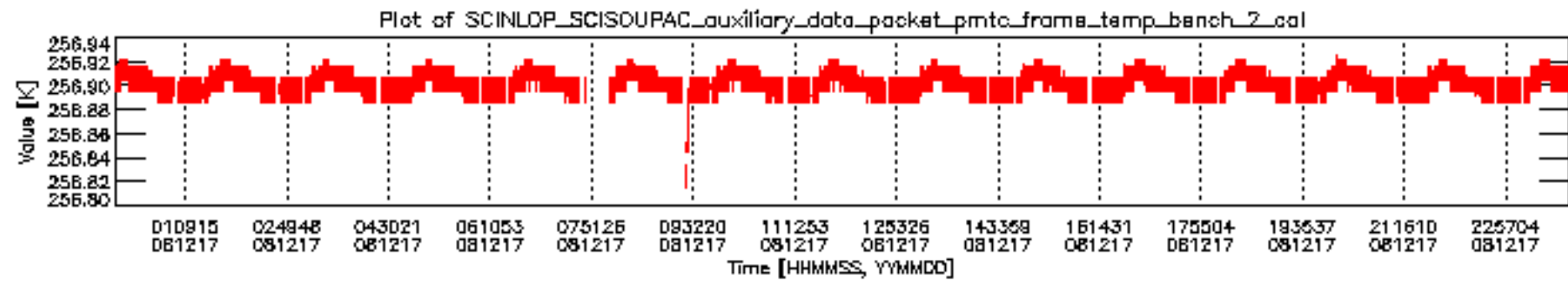
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081217\_7.PNG

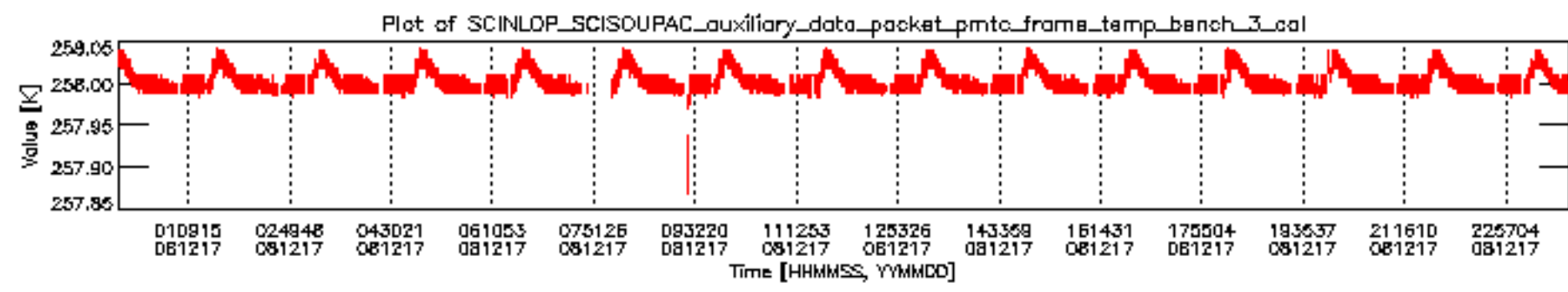


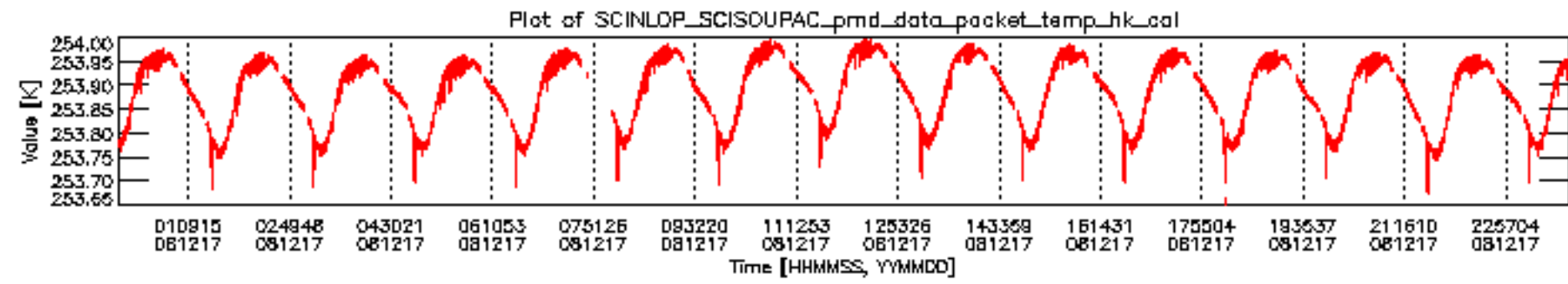
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081217\_8.PNG

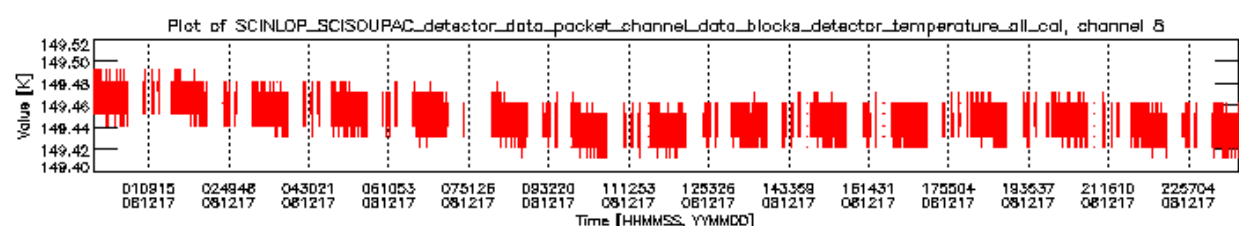
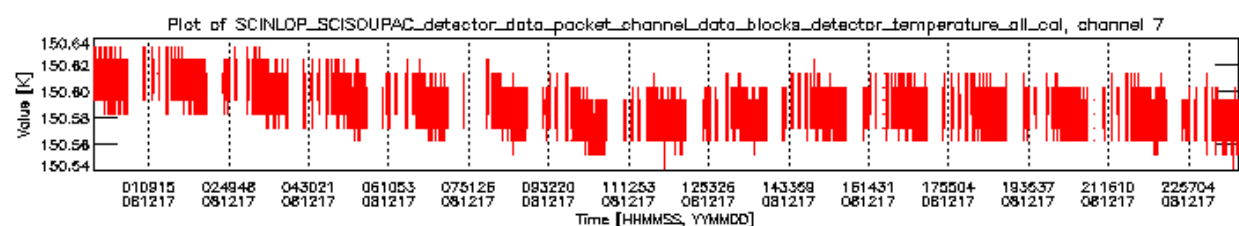
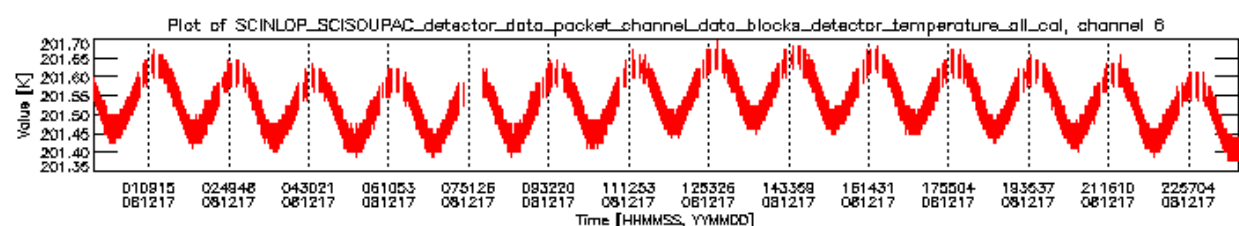
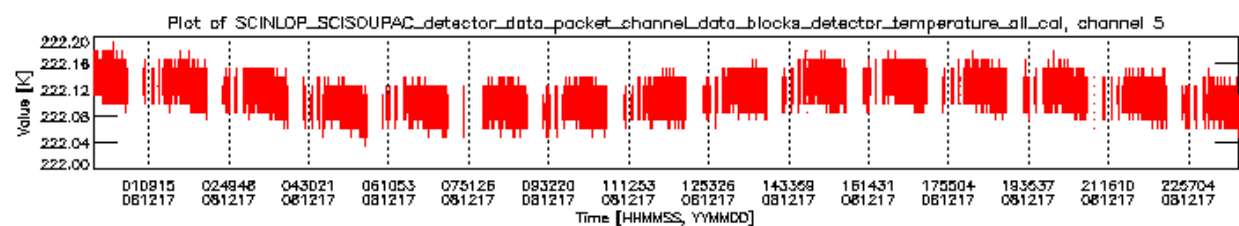
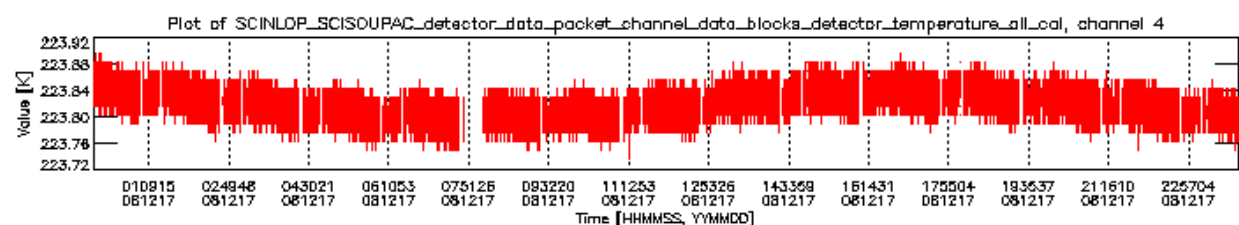
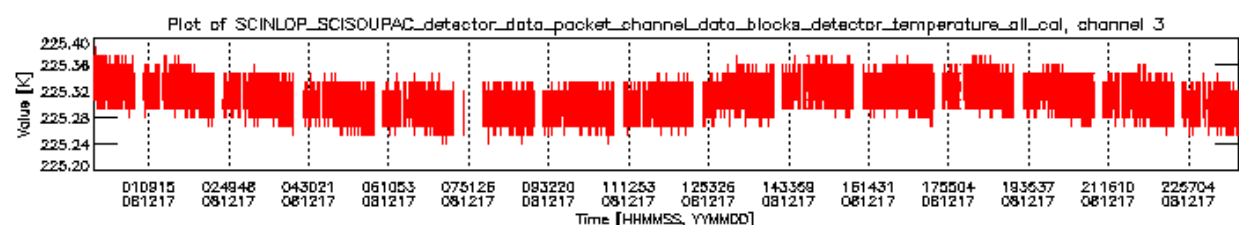
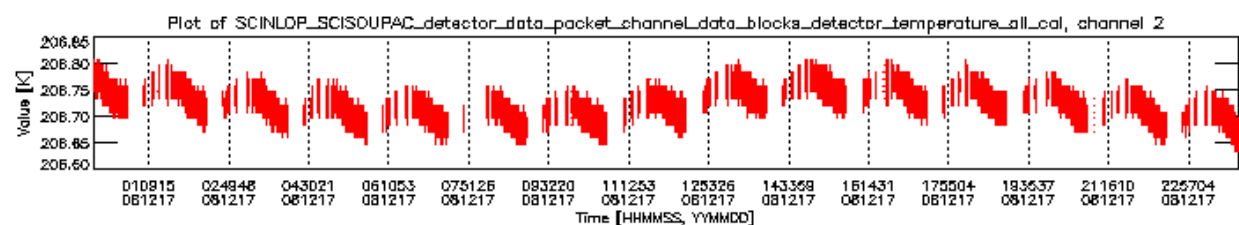
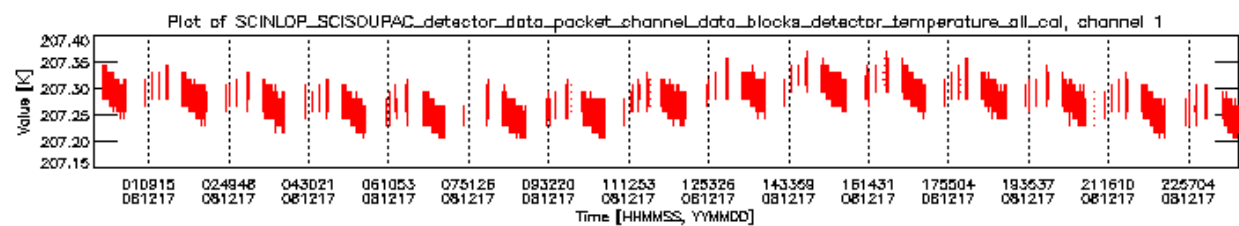




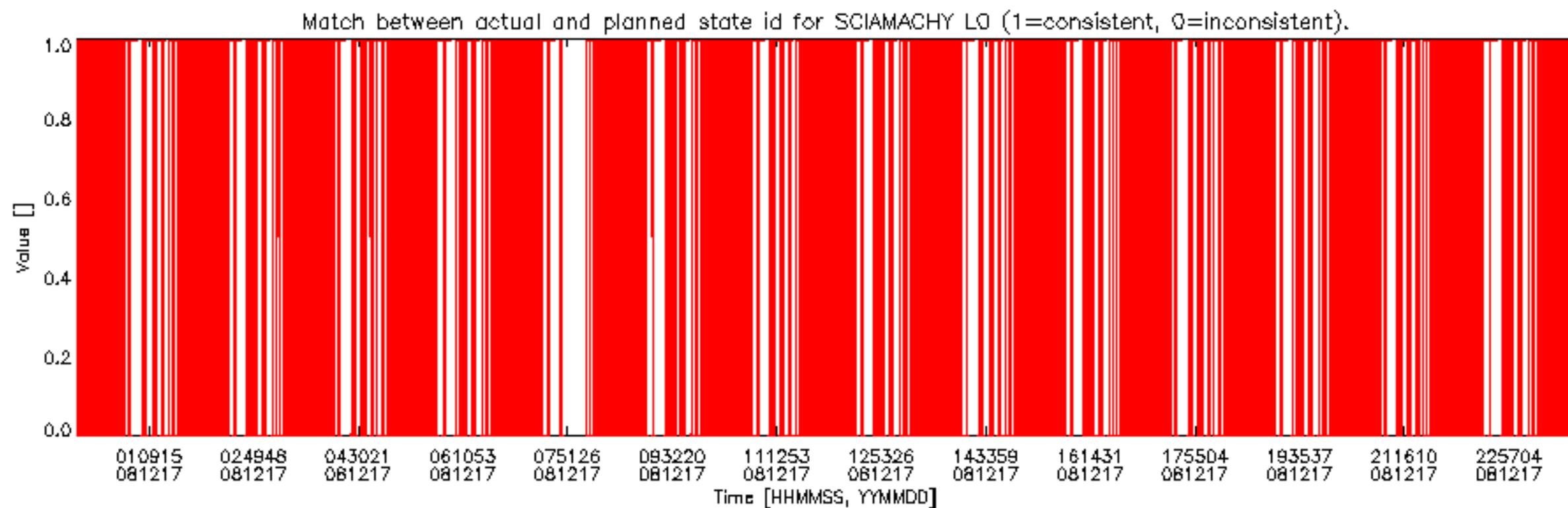
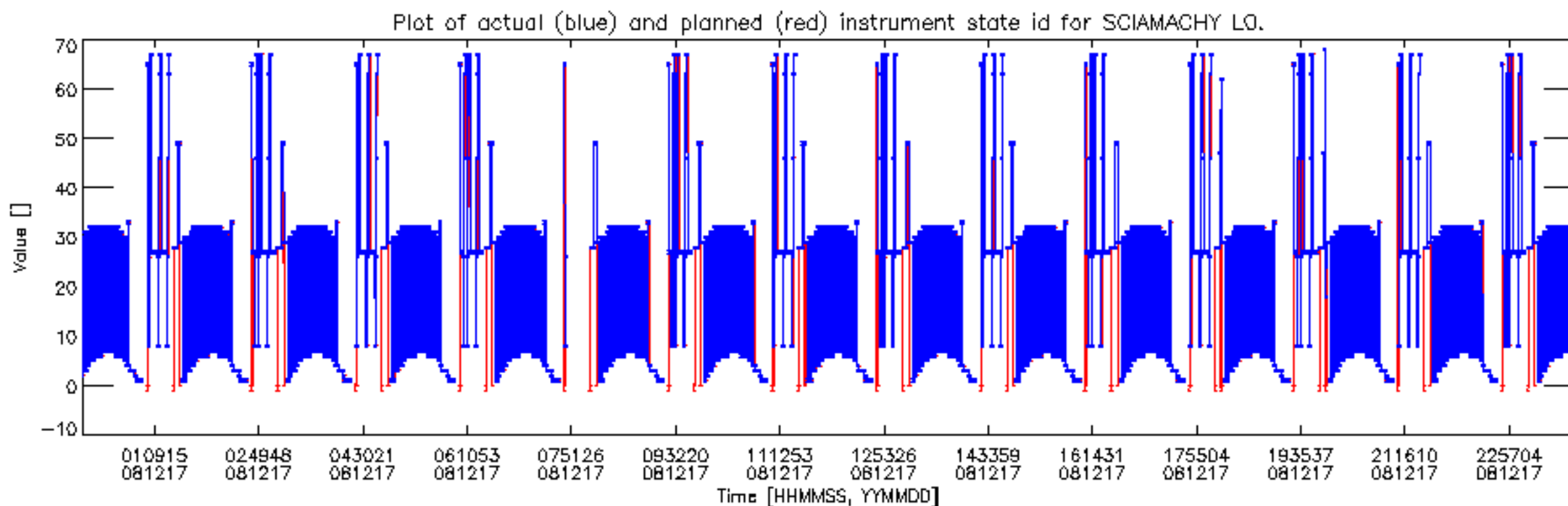




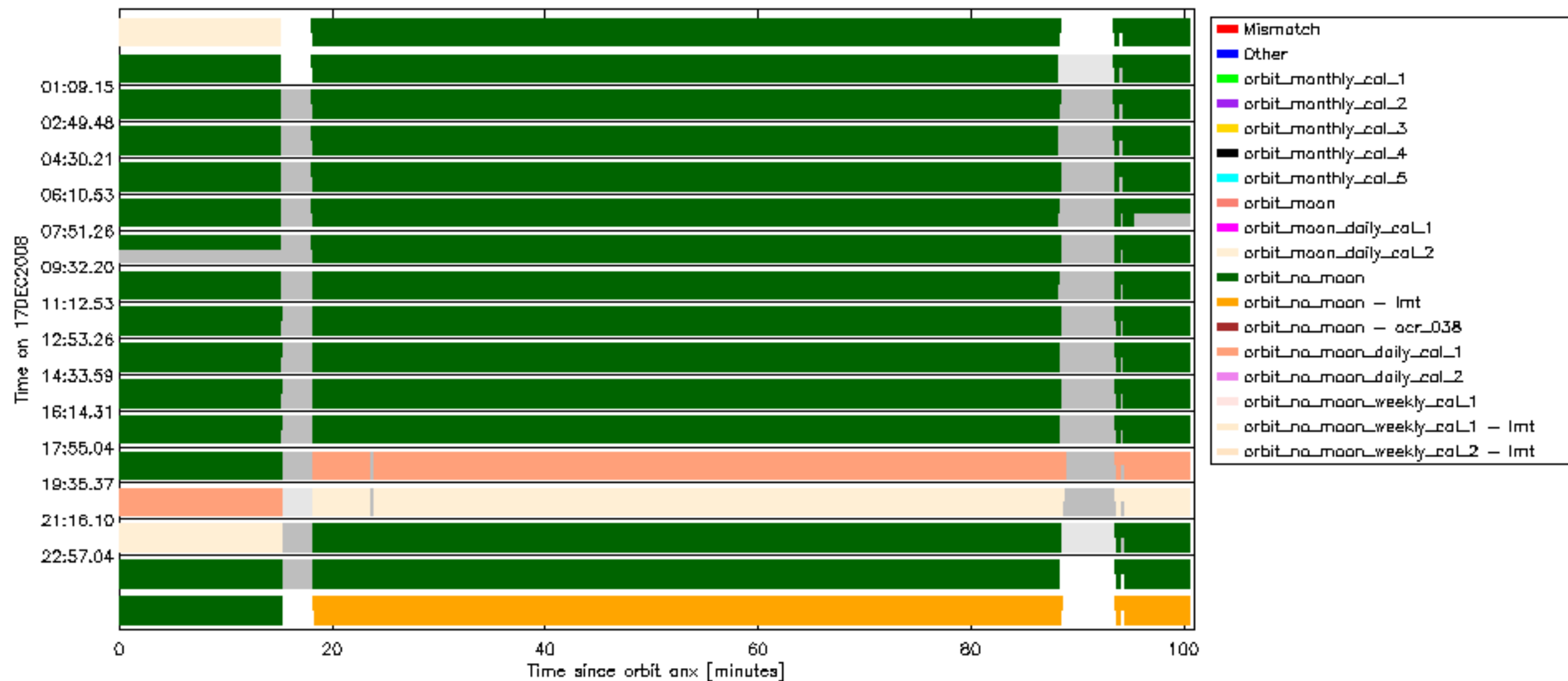


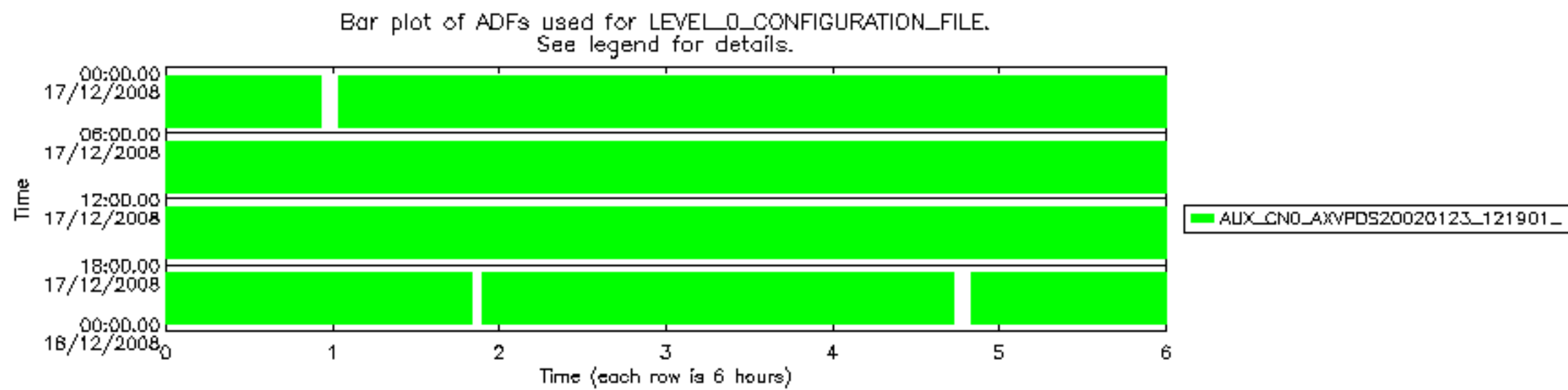






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
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Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

