

## 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	05JAN2008 07:56:50
Data source version	KSPT_L0/4302-N
Processing scope for products	01JAN2008 00:00:00 to 02JAN2008 00:00:00
Start time of first product within scope	31DEC2007 23:53:22
Stop time of last product within scope	02JAN2008 00:55:26
Total number of level 0 products	16
Number of level 0 products with errors	1

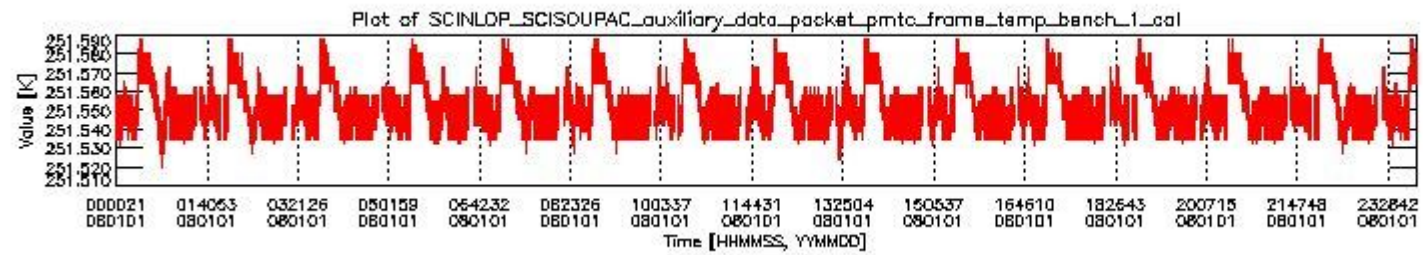
### 0.1.2 Summary per product

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

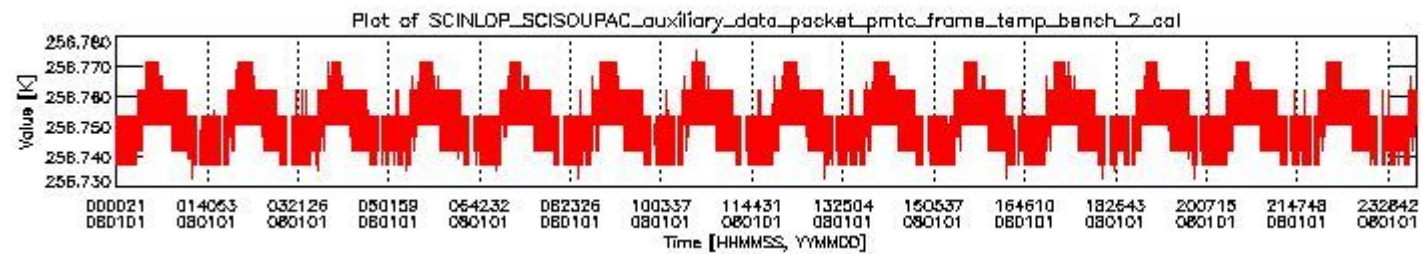
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071231_235322_000056232064_00402_30516_5850.N1	31DEC2007 23:53:22	01JAN2008 01:27:05	0	0	0	0	0
1	SCI_NL__OPNPDE20080101_013358_000040792064_00403_30517_5851.N1	01JAN2008 01:33:58	01JAN2008 02:41:57	0	0	0	0	0
2	SCI_NL__OPNPDE20080101_024048_000060922064_00404_30518_5852.N1	01JAN2008 02:40:48	01JAN2008 04:22:20	0	0	0	0	0
3	SCI_NL__OPNPDE20080101_042124_000060362064_00405_30519_5853.N1	01JAN2008 04:21:24	01JAN2008 06:02:00	0	0	0	0	0
4	SCI_NL__OPNPDK20080101_060200_000041692064_00406_30520_7007.N1	01JAN2008 06:02:00	01JAN2008 07:11:29	0	0	0	0	0
5	SCI_NL__OPNPDK20080101_071021_000061042064_00407_30521_7008.N1	01JAN2008 07:10:21	01JAN2008 08:52:05	0	0	0	0	0
6	SCI_NL__OPNPDK20080101_085109_000060232064_00408_30522_7009.N1	01JAN2008 08:51:09	01JAN2008 10:31:32	0	0	0	0	0
7	SCI_NL__OPNPDK20080101_102940_000059802064_00409_30523_7010.N1	01JAN2008 10:29:40	01JAN2008 12:09:20	0	0	0	0	0
8	SCI_NL__OPNPDK20080101_120606_000062302064_00410_30524_7011.N1	01JAN2008 12:06:06	01JAN2008 13:49:56	0	0	0	0	0
9	SCI_NL__OPNPDK20080101_134900_000058982064_00411_30525_7012.N1	01JAN2008 13:49:00	01JAN2008 15:27:18	0	0	0	0	0
10	SCI_NL__OPNPDK20080101_152718_000058112064_00412_30526_7013.N1	01JAN2008 15:27:18	01JAN2008 17:04:09	0	0	0	0	0
11	SCI_NL__OPNPDK20080101_170409_000057922064_00413_30527_7014.N1	01JAN2008 17:04:09	01JAN2008 18:40:41	1	1	1	0	0
12	SCI_NL__OPNPDK20080101_184445_000057872064_00414_30528_7015.N1	01JAN2008 18:44:45	01JAN2008 20:21:12	0	0	0	0	0
13	SCI_NL__OPNPDE20080101_202028_000043832064_00415_30529_5854.N1	01JAN2008 20:20:28	01JAN2008 21:33:31	0	0	0	0	0
14	SCI_NL__OPNPDE20080101_213331_000060912064_00415_30529_5855.N1	01JAN2008 21:33:31	01JAN2008 23:15:03	0	0	0	0	0
15	SCI_NL__OPNPDE20080101_231503_000060232064_00416_30530_5856.N1	01JAN2008 23:15:03	02JAN2008 00:55:26	0	0	0	0	0

## 0.2 Product Quality Indicators

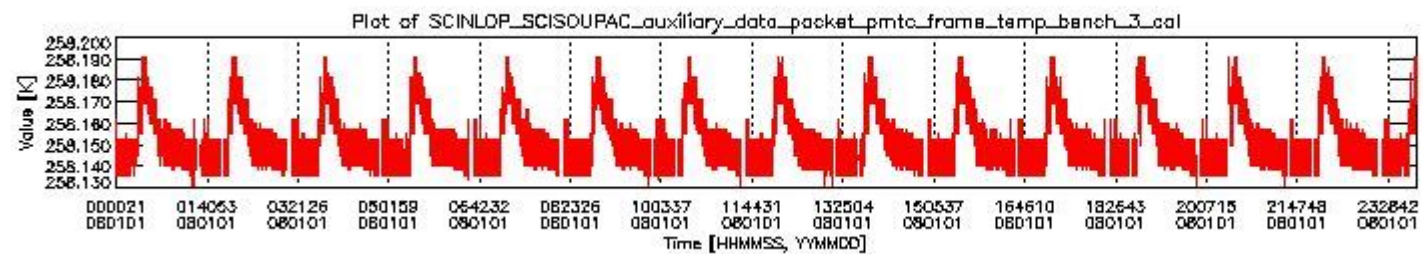
This section shows information about product quality, currently temperatures.



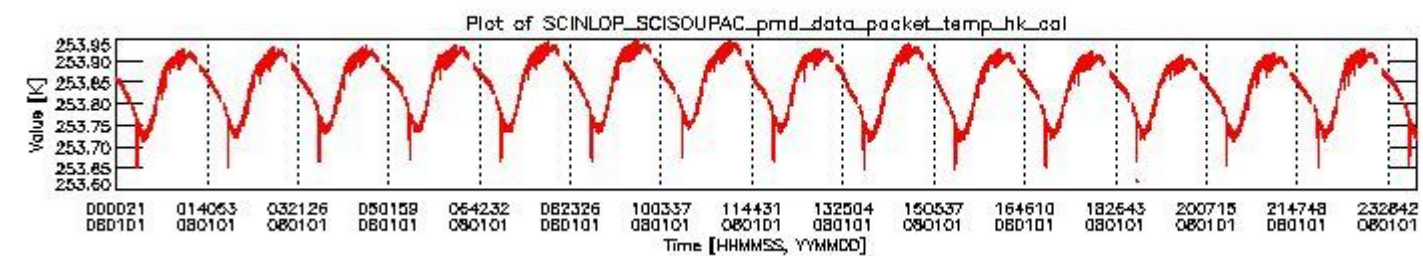
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080101\_0.PNG



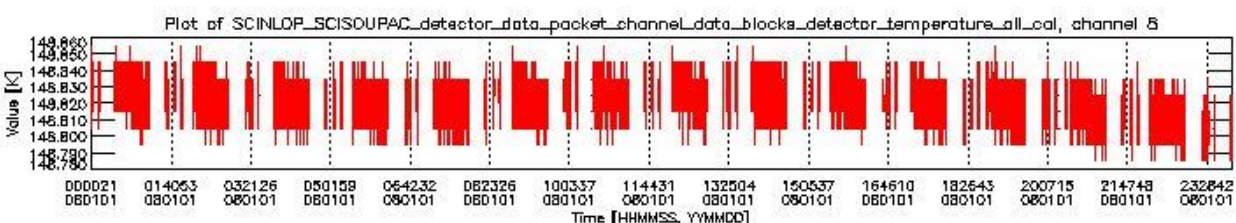
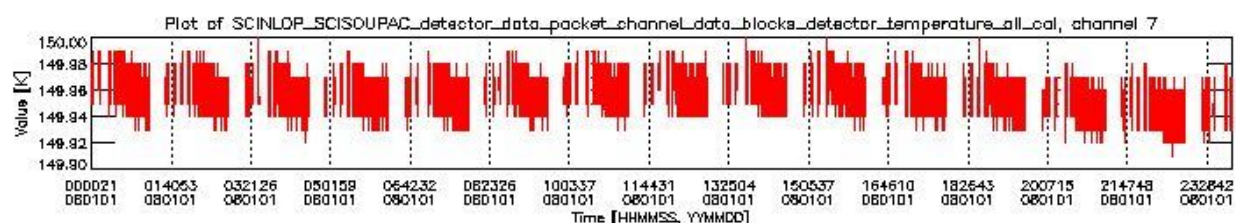
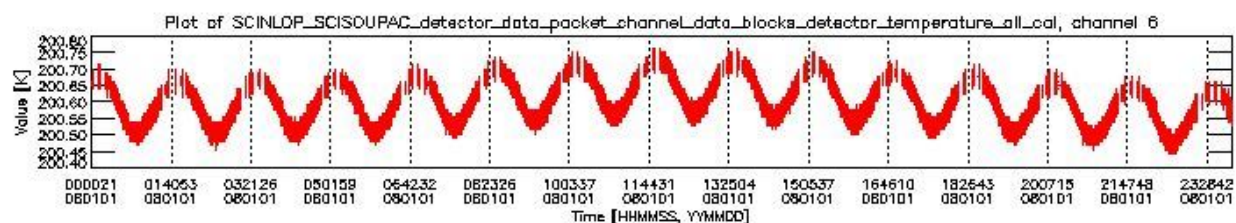
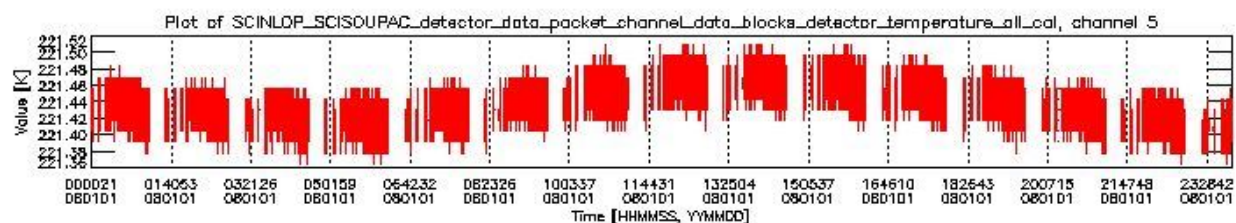
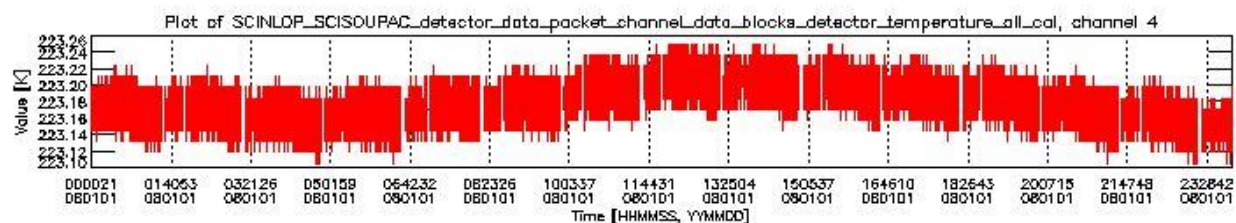
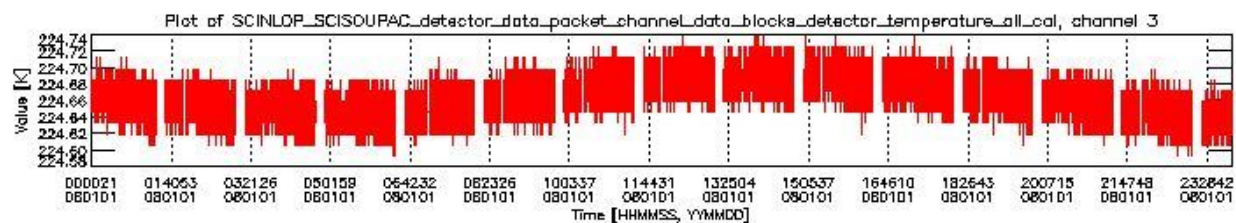
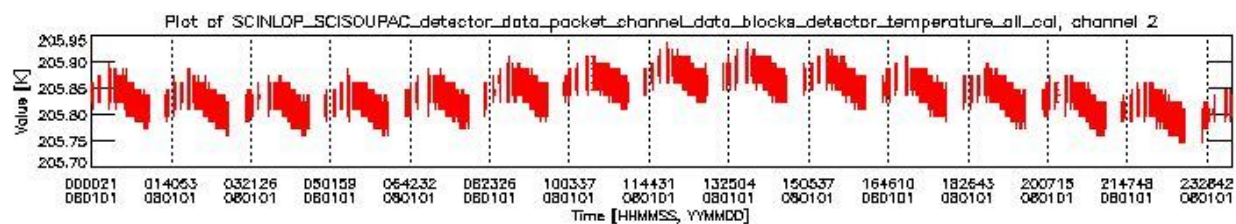
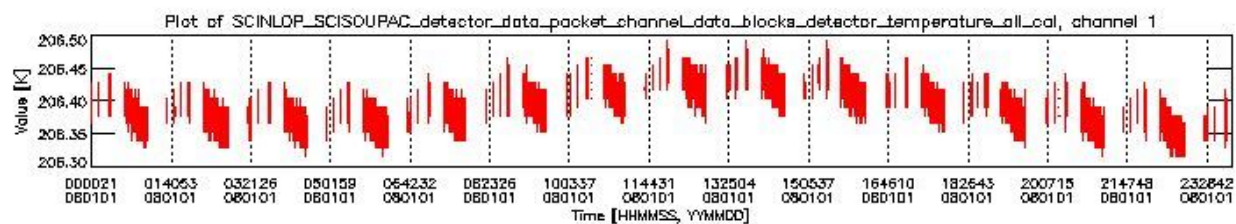
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sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080101\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080101\_3.PNG

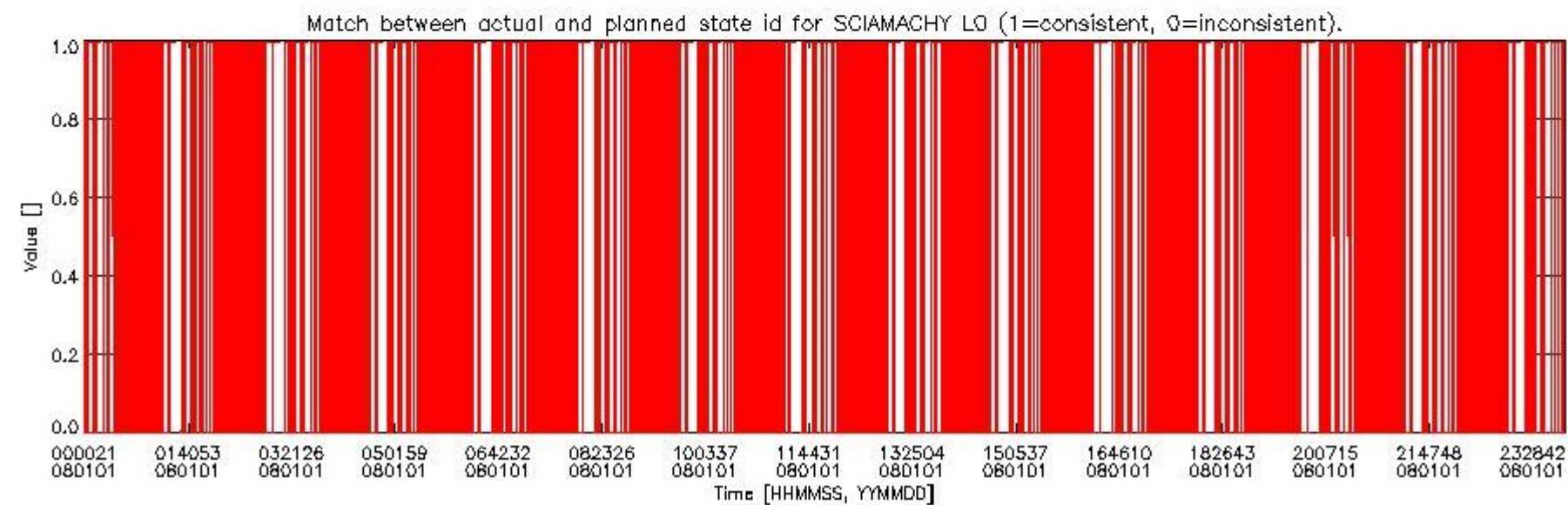
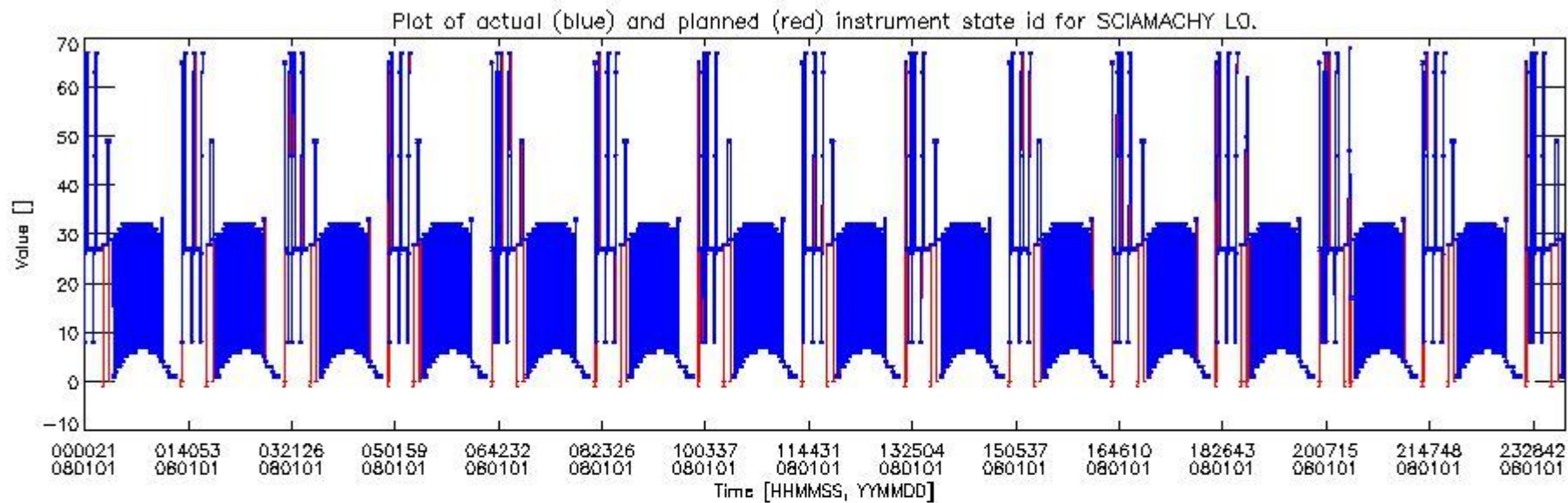


### 0.3 State monitoring

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: **40039**

#	Actual time	Actual value	Planned time	Planned value
0	01JAN2008 00:00:29.467070	26	01JAN2008 00:00:29.467070	8
1	01JAN2008 00:00:30.092052	26	01JAN2008 00:00:30.092052	8
2	01JAN2008 00:00:30.592069	26	01JAN2008 00:00:30.592069	8
3	01JAN2008 00:00:31.092046	26	01JAN2008 00:00:31.092046	8
4	01JAN2008 00:00:31.592064	26	01JAN2008 00:00:31.592064	8
5	01JAN2008 00:00:32.092041	26	01JAN2008 00:00:32.092041	8
6	01JAN2008 00:00:32.592058	26	01JAN2008 00:00:32.592058	8
7	01JAN2008 00:00:33.092076	26	01JAN2008 00:00:33.092076	8
8	01JAN2008 00:00:33.592053	26	01JAN2008 00:00:33.592053	8
9	01JAN2008 00:00:34.092070	26	01JAN2008 00:00:34.092070	8
10	01JAN2008 00:00:34.467043	26	01JAN2008 00:00:34.467043	8
11	01JAN2008 00:00:34.592047	26	01JAN2008 00:00:34.592047	8
12	01JAN2008 00:00:35.092065	26	01JAN2008 00:00:35.092065	8
13	01JAN2008 00:00:35.592042	26	01JAN2008 00:00:35.592042	8
14	01JAN2008 00:00:36.092059	26	01JAN2008 00:00:36.092059	8
15	01JAN2008 00:00:36.592077	26	01JAN2008 00:00:36.592077	8
16	01JAN2008 00:00:37.092054	26	01JAN2008 00:00:37.092054	8
17	01JAN2008 00:00:37.592071	26	01JAN2008 00:00:37.592071	8
18	01JAN2008 00:00:38.092048	26	01JAN2008 00:00:38.092048	8
19	01JAN2008 00:01:03.025649	46	01JAN2008 00:01:03.025649	26
	...	...	...	...

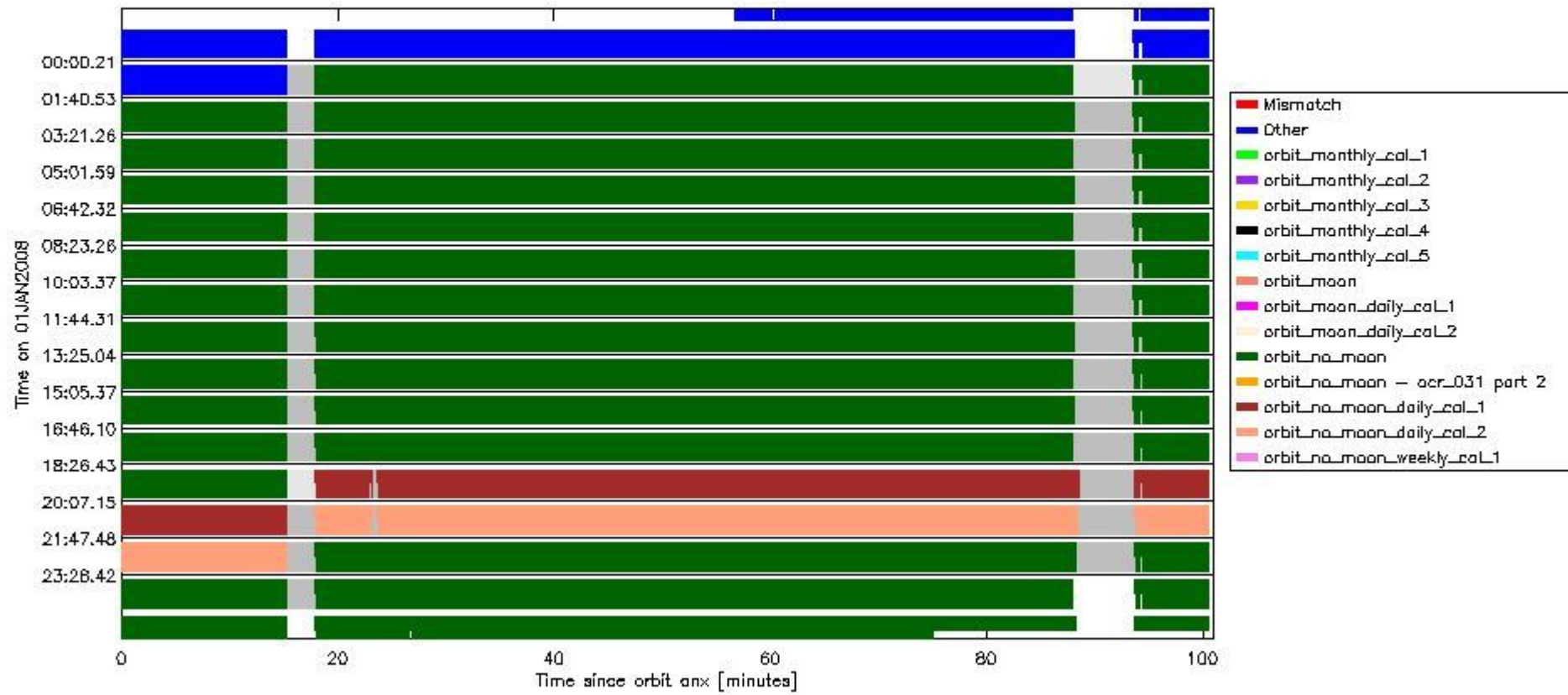


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080101\_5.PNG

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 01JAN2008.  
 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\_4302\_N\_20080101\_6.PNG

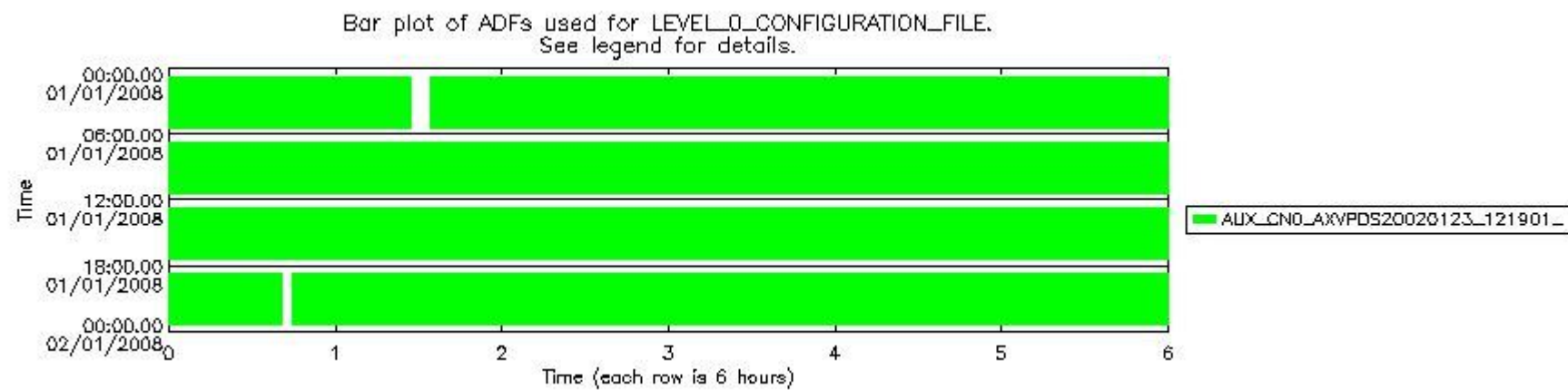
## 0.4 ADF monitoring

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

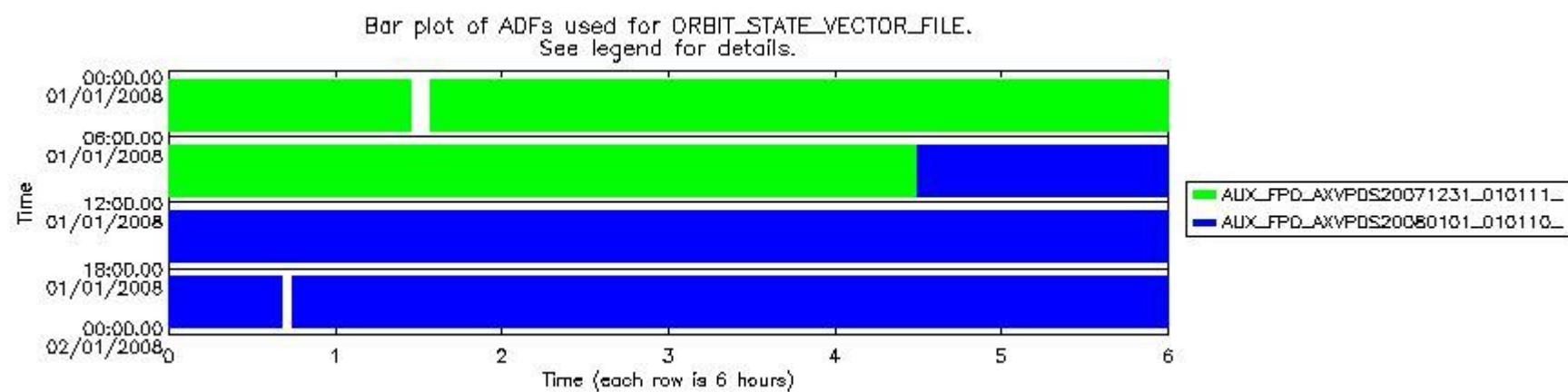
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

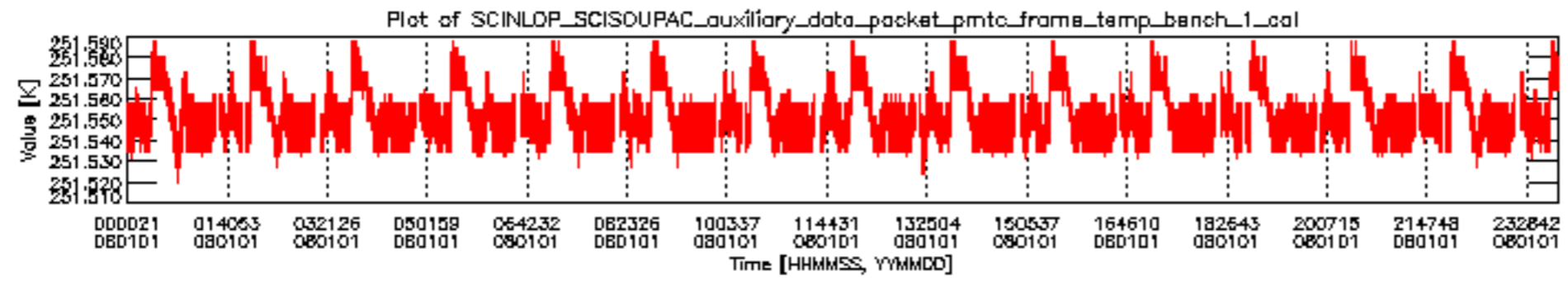
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
<b>1</b>	<b>AUX_FPO_AXVPDS20071231_010111_20071230_193003_20080109_205616</b>
<b>2</b>	<b>AUX_FPO_AXVPDS20080101_010110_20071231_185826_20080110_202439</b>



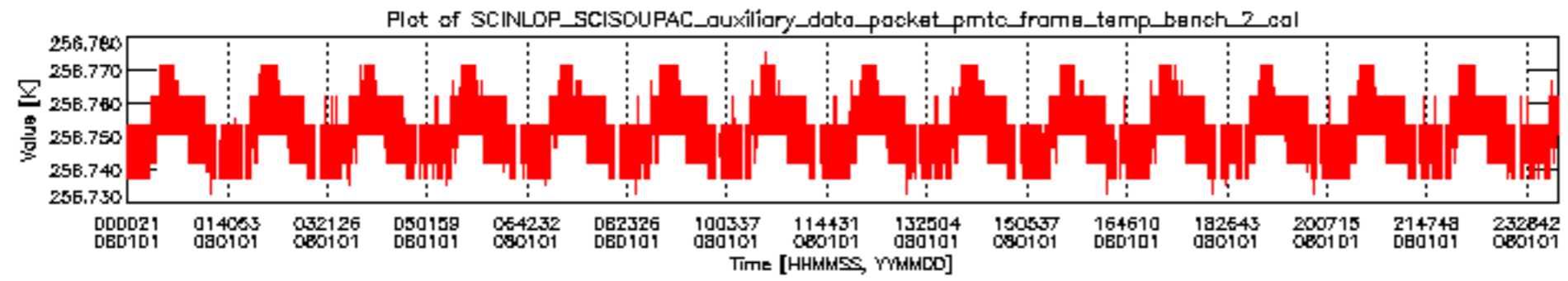
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080101\_7.PNG

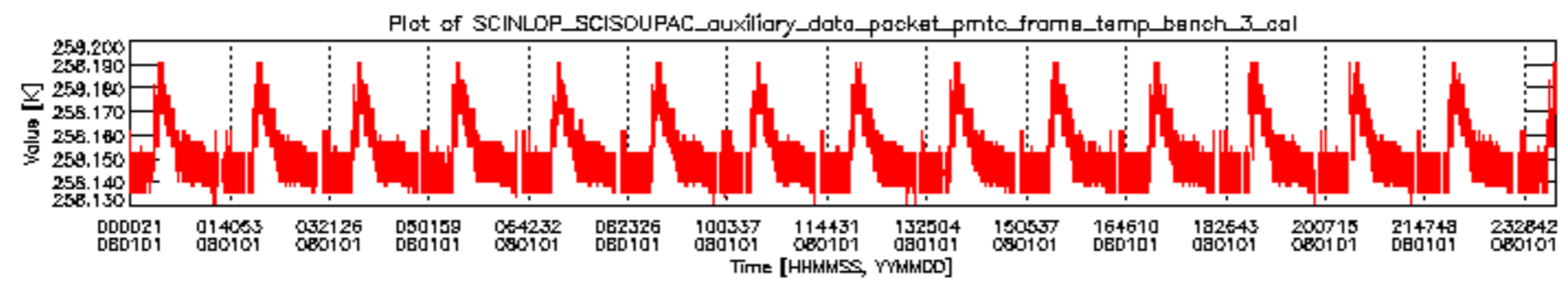


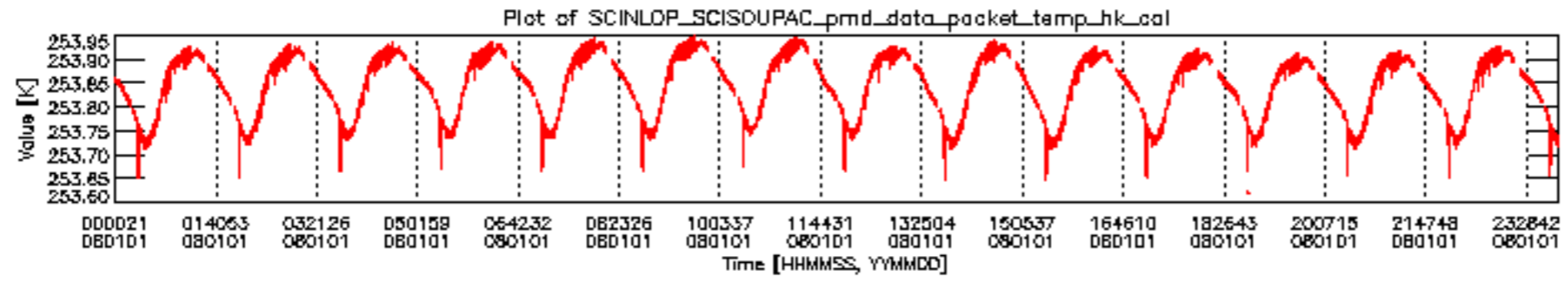
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20080101\_8.PNG

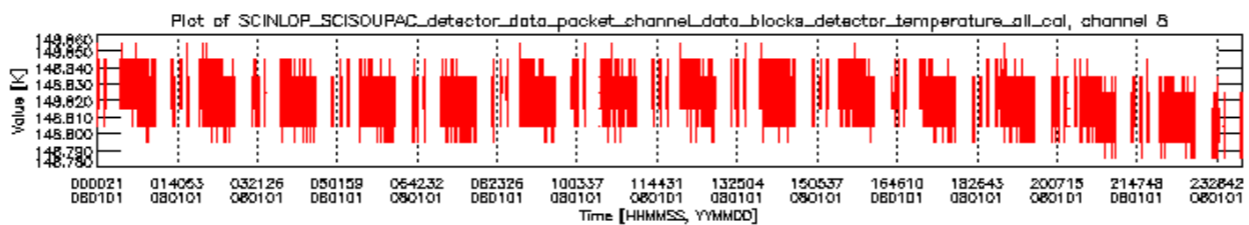
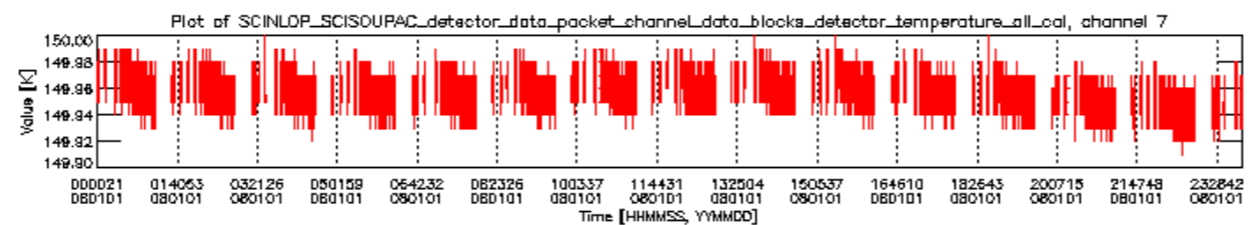
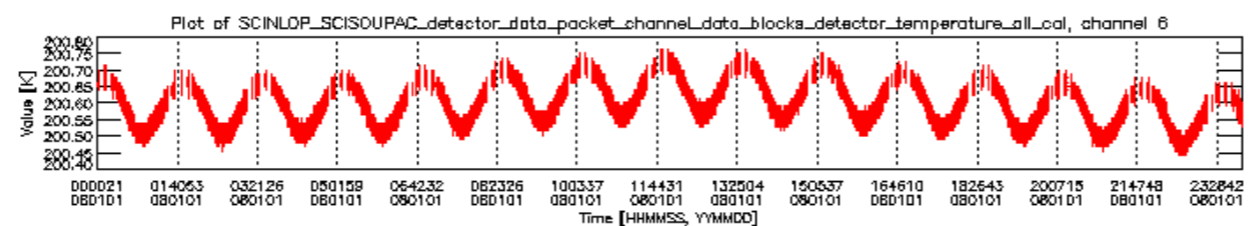
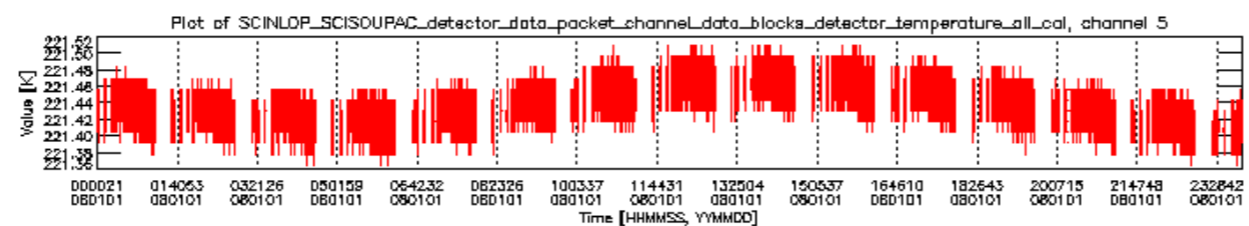
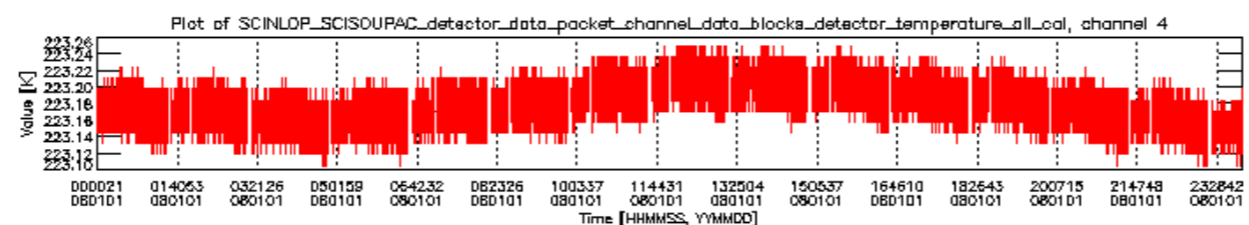
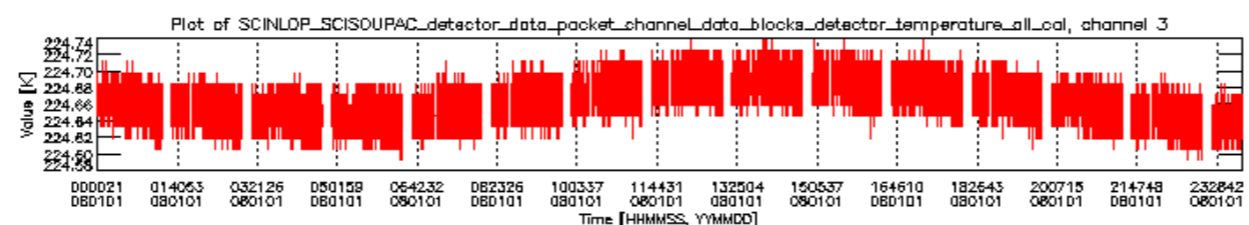
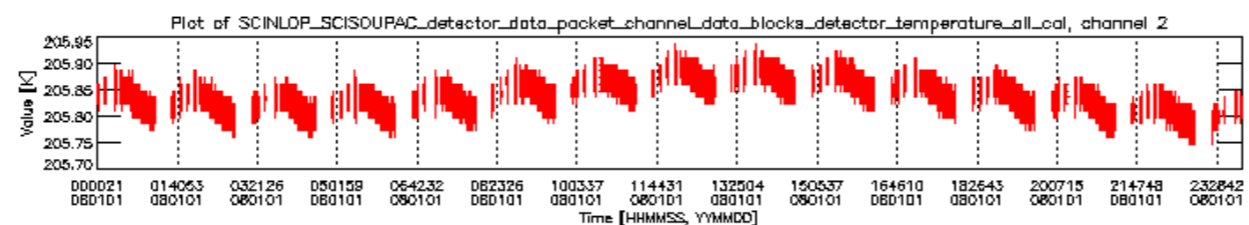
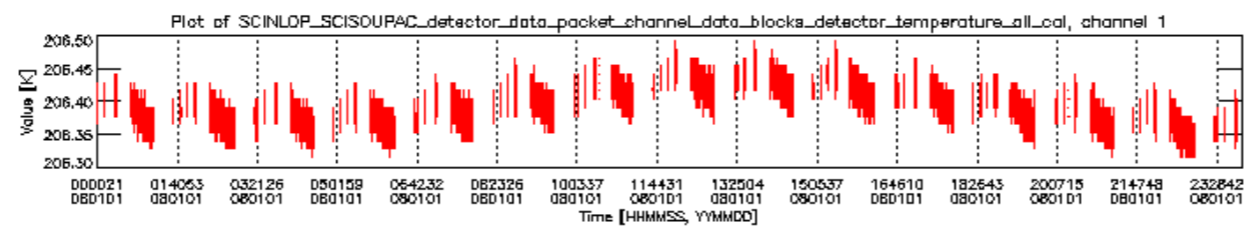


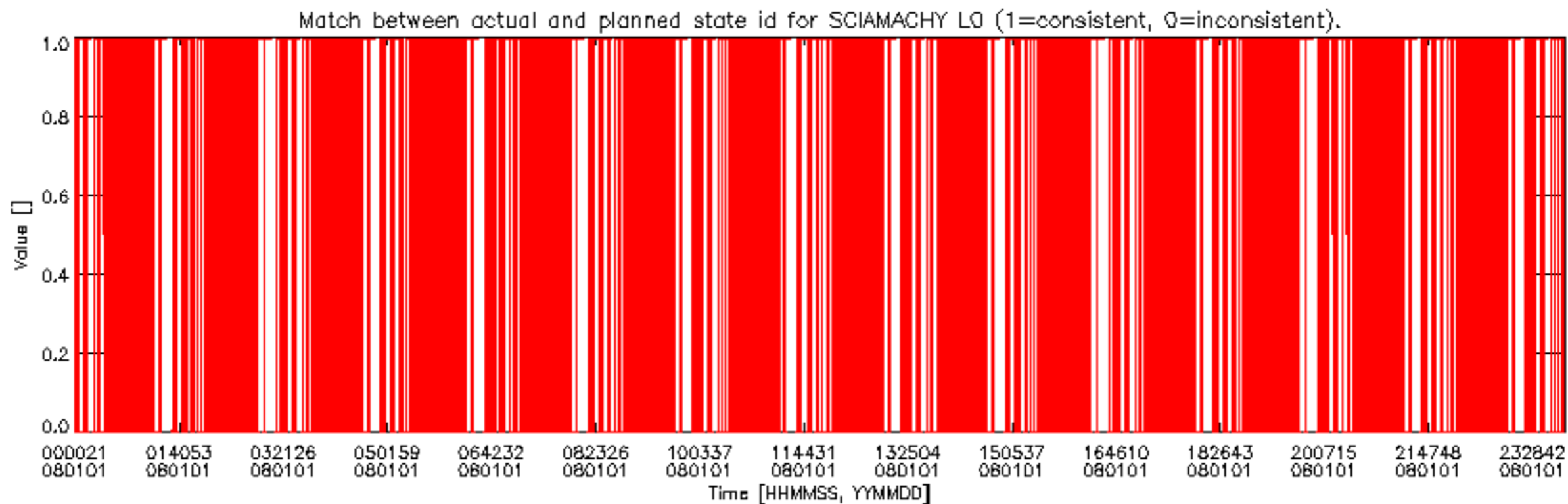
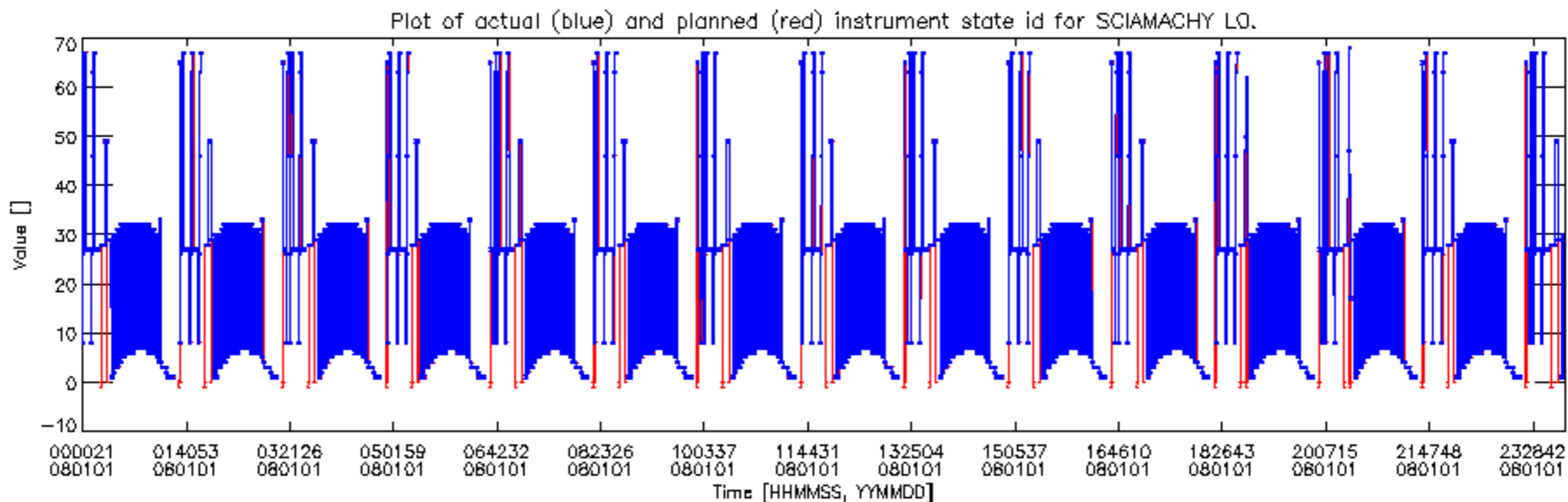












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 01JAN2008.  
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