

## 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	09OCT2008 05:54:33
Data source version	KSPT_L0/4303-N
Processing scope for products	05OCT2008 00:00:00 to 06OCT2008 00:00:00
Start time of first product within scope	04OCT2008 23:11:09
Stop time of last product within scope	06OCT2008 00:18:48
Total number of level 0 products	17
Number of level 0 products with errors	1

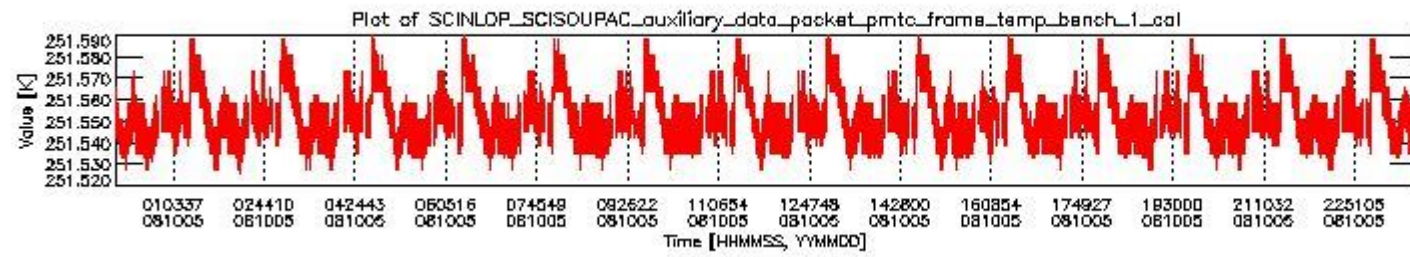
### 0.1.2 Summary per product

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

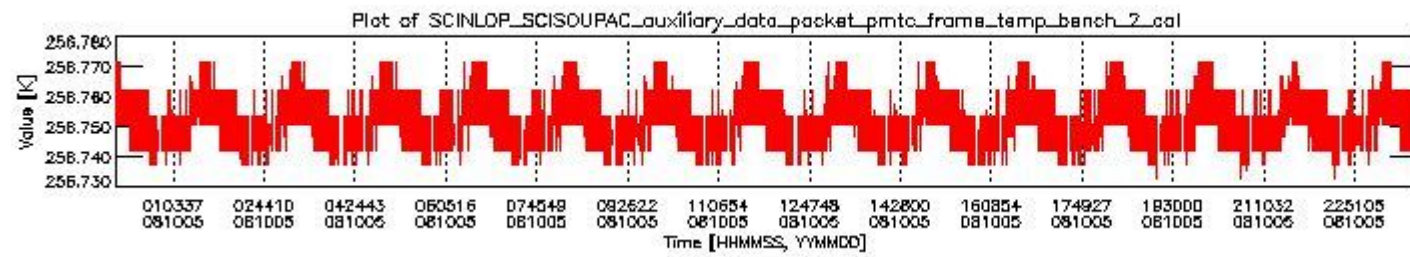
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081004_231109_000060372072_00373_34495_7641.N1	04OCT2008 23:11:09	05OCT2008 00:51:46	0	0	0	0	0
1	SCI_NL__OPNPDE20081005_005102_000046392072_00374_34496_7642.N1	05OCT2008 00:51:02	05OCT2008 02:08:21	0	0	0	0	0
2	SCI_NL__OPNPDE20081005_020821_000057322072_00375_34497_7643.N1	05OCT2008 02:08:21	05OCT2008 03:43:53	0	0	0	0	0
3	SCI_NL__OPNPDE20081005_034353_000061482072_00376_34498_7644.N1	05OCT2008 03:43:53	05OCT2008 05:26:21	0	0	0	0	0
4	SCI_NL__OPNPDE20081005_052525_000060372072_00377_34499_7645.N1	05OCT2008 05:25:25	05OCT2008 07:06:02	0	0	0	0	0
5	SCI_NL__OPNPDK20081005_070506_000041012072_00378_34500_9578.N1	05OCT2008 07:05:06	05OCT2008 08:13:27	0	0	0	0	0
6	SCI_NL__OPNPDK20081005_081219_000061742072_00379_34501_9579.N1	05OCT2008 08:12:19	05OCT2008 09:55:12	0	0	0	0	0
7	SCI_NL__OPNPDK20081005_095512_000058432072_00380_34502_9580.N1	05OCT2008 09:55:12	05OCT2008 11:32:36	0	0	0	0	0
8	SCI_NL__OPNPDK20081005_113031_000062292072_00381_34503_9581.N1	05OCT2008 11:30:31	05OCT2008 13:14:21	0	0	0	0	0
9	SCI_NL__OPNPDK20081005_131312_000058432072_00382_34504_9582.N1	05OCT2008 13:13:12	05OCT2008 14:50:35	0	0	0	0	0
10	SCI_NL__OPNPDK20081005_144844_000007342072_00383_34505_9583.N1	05OCT2008 14:48:44	05OCT2008 15:00:58	1	1	0	0	0
11	SCI_NL__OPNPDK20081005_150058_000053032072_00383_34505_9585.N1	05OCT2008 15:00:58	05OCT2008 16:29:20	0	0	0	0	0
12	SCI_NL__OPNPDK20081005_162511_000060372072_00384_34506_9586.N1	05OCT2008 16:25:11	05OCT2008 18:05:47	0	0	0	0	0
13	SCI_NL__OPNPDK20081005_180547_000060372072_00385_34507_9587.N1	05OCT2008 18:05:47	05OCT2008 19:46:24	0	0	0	0	0
14	SCI_NL__OPNPDE20081005_194527_000039982072_00386_34508_7646.N1	05OCT2008 19:45:27	05OCT2008 20:52:05	0	0	0	0	0
15	SCI_NL__OPNPDE20081005_205057_000064362072_00386_34508_7647.N1	05OCT2008 20:50:57	05OCT2008 22:38:12	0	0	0	0	0
16	SCI_NL__OPNPDE20081005_223812_000060362072_00387_34509_7648.N1	05OCT2008 22:38:12	06OCT2008 00:18:48	0	0	0	0	0

## 0.2 Product Quality Indicators

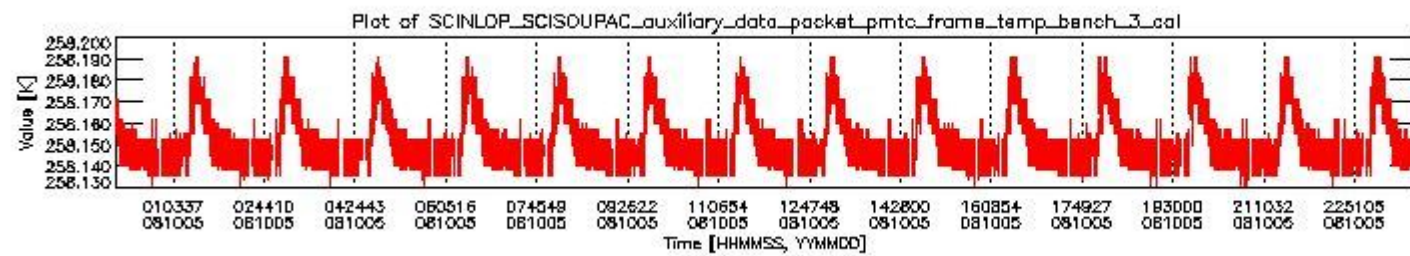
This section shows information about product quality, currently temperatures.



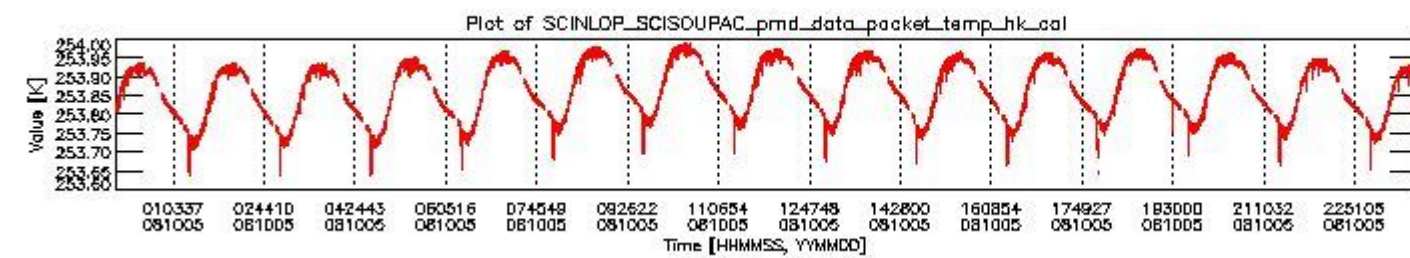
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081005\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081005\_1.PNG

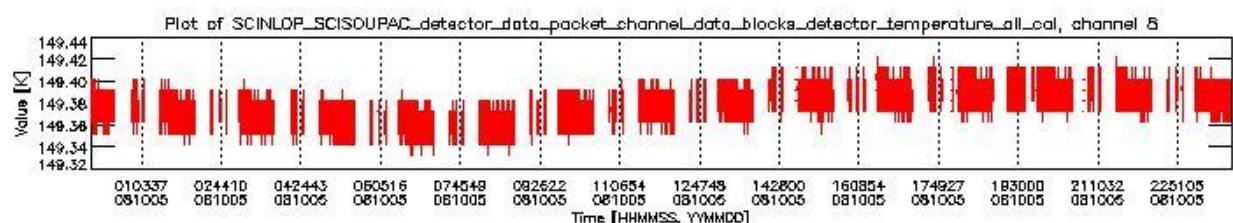
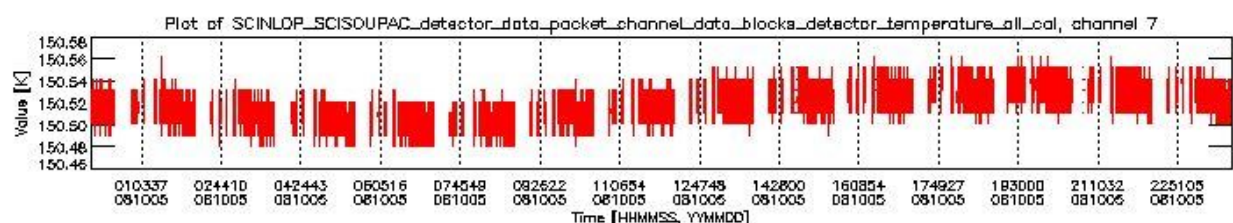
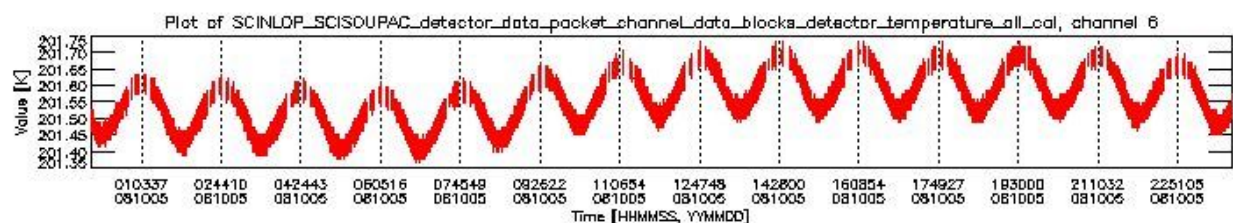
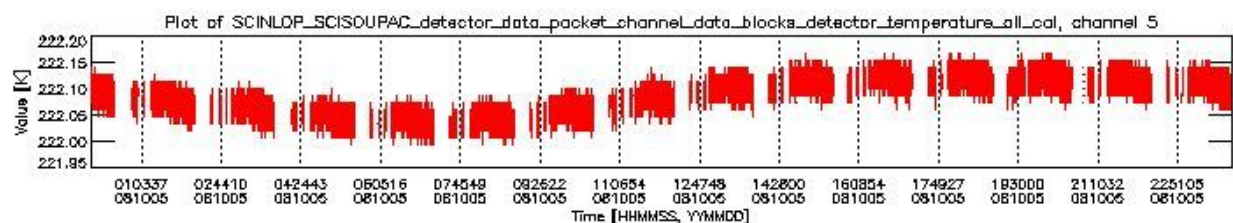
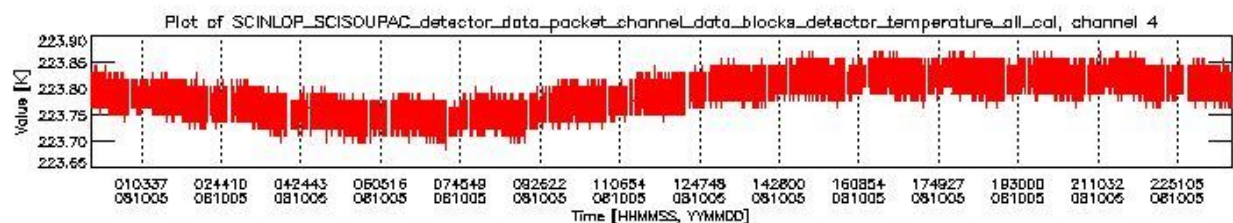
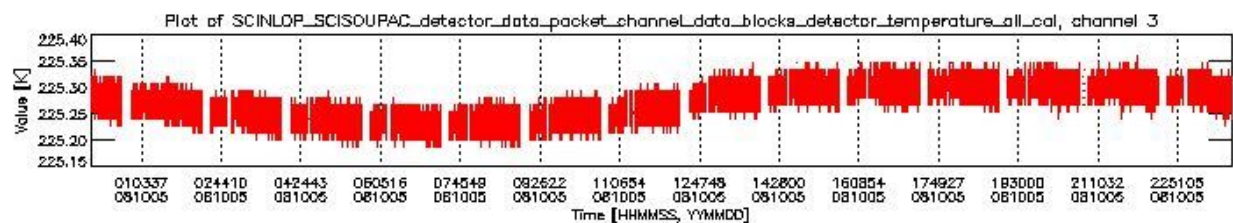
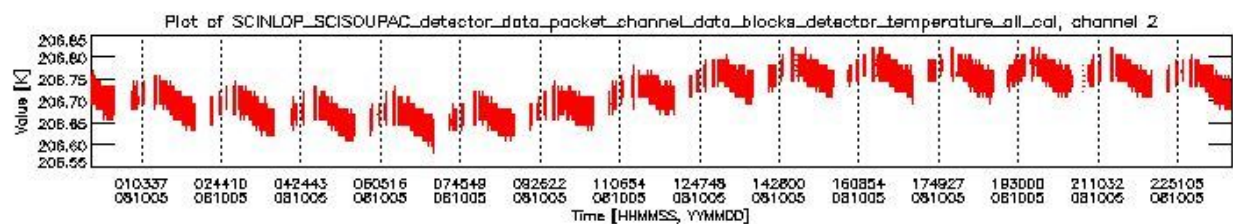
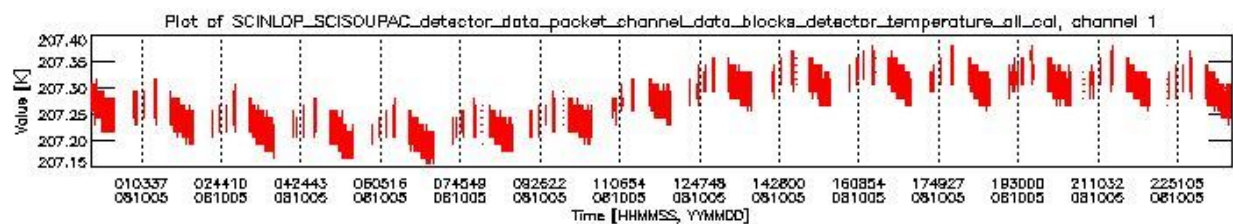


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081005\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081005\_3.PNG



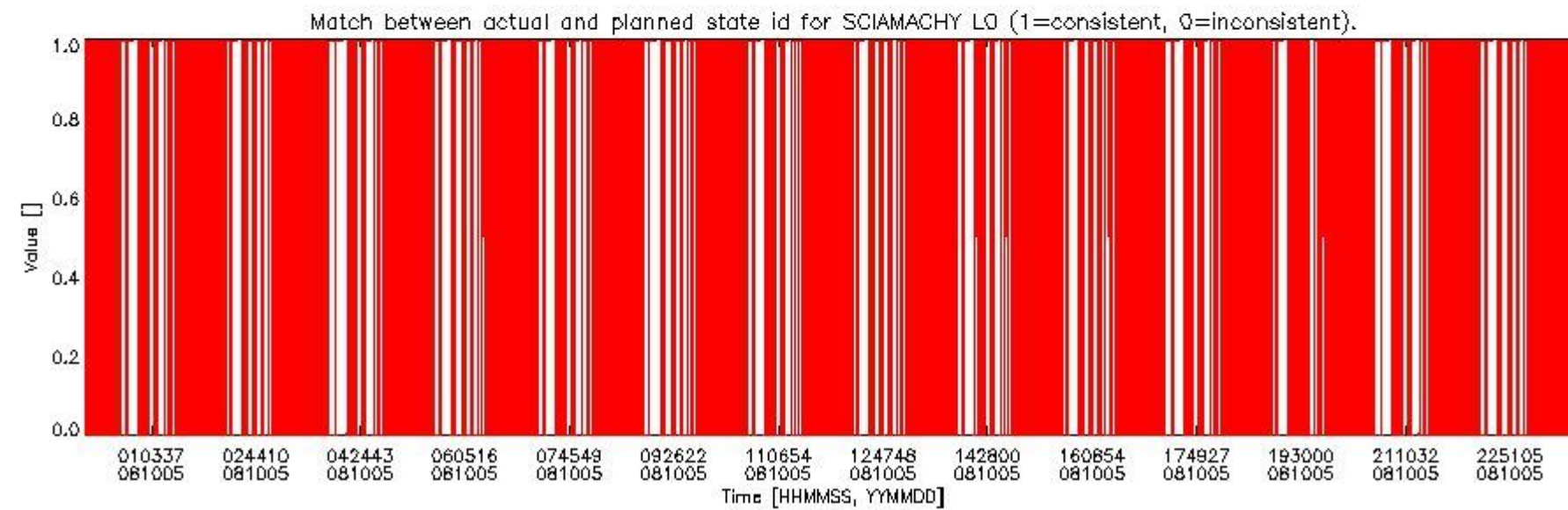
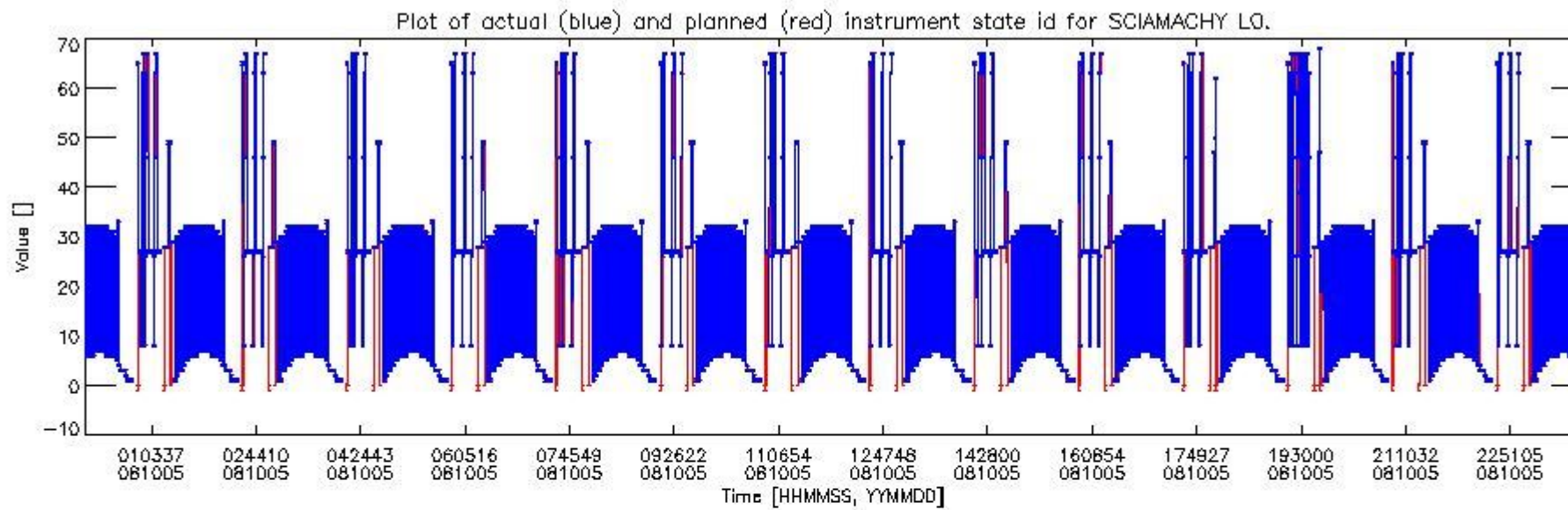


### 0.3 State monitoring

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: **44695**

#	Actual time	Actual value	Planned time	Planned value
0	05OCT2008 00:00:00.336309	32	05OCT2008 00:00:00.336309	6
1	05OCT2008 00:00:00.711322	32	05OCT2008 00:00:00.711322	6
2	05OCT2008 00:00:01.086335	32	05OCT2008 00:00:01.086335	6
3	05OCT2008 00:00:01.461308	32	05OCT2008 00:00:01.461308	6
4	05OCT2008 00:00:47.519919	6	05OCT2008 00:00:47.519919	32
5	05OCT2008 00:00:47.894932	6	05OCT2008 00:00:47.894932	32
6	05OCT2008 00:00:48.144941	6	05OCT2008 00:00:48.144941	32
7	05OCT2008 00:00:48.394910	6	05OCT2008 00:00:48.394910	32
8	05OCT2008 00:00:48.644918	6	05OCT2008 00:00:48.644918	32
9	05OCT2008 00:00:48.894927	6	05OCT2008 00:00:48.894927	32
10	05OCT2008 00:00:49.144936	6	05OCT2008 00:00:49.144936	32
11	05OCT2008 00:00:49.394944	6	05OCT2008 00:00:49.394944	32
12	05OCT2008 00:00:49.644913	6	05OCT2008 00:00:49.644913	32
13	05OCT2008 00:00:49.894921	6	05OCT2008 00:00:49.894921	32
14	05OCT2008 00:00:50.144930	6	05OCT2008 00:00:50.144930	32
15	05OCT2008 00:00:50.394939	6	05OCT2008 00:00:50.394939	32
16	05OCT2008 00:00:50.644907	6	05OCT2008 00:00:50.644907	32
17	05OCT2008 00:00:50.894916	6	05OCT2008 00:00:50.894916	32
18	05OCT2008 00:00:51.144925	6	05OCT2008 00:00:51.144925	32
19	05OCT2008 00:00:51.394933	6	05OCT2008 00:00:51.394933	32
	...	...	...	...



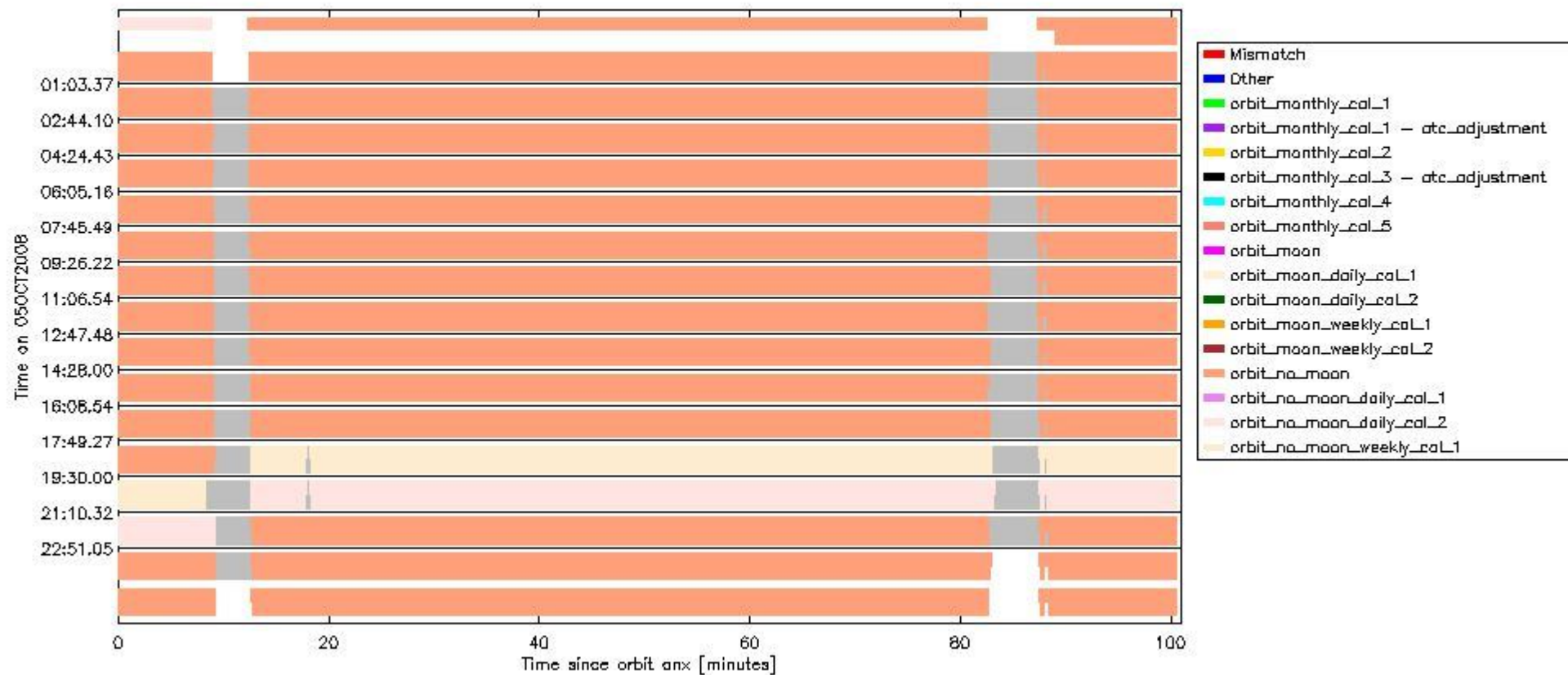
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081005\_5.PNG

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 05OCT2008.  
 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\_20081005\_6.PNG

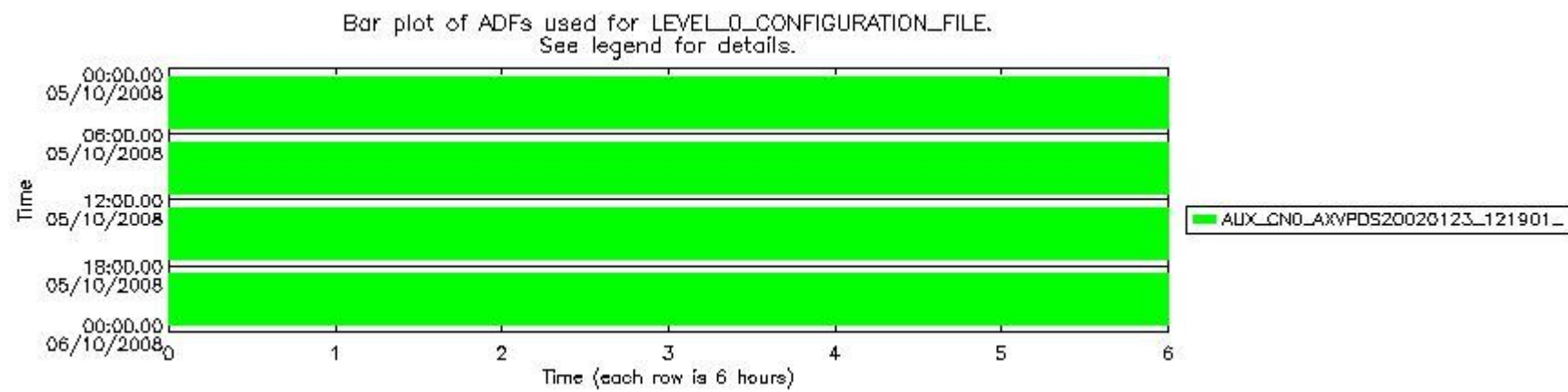
## 0.4 ADF monitoring

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

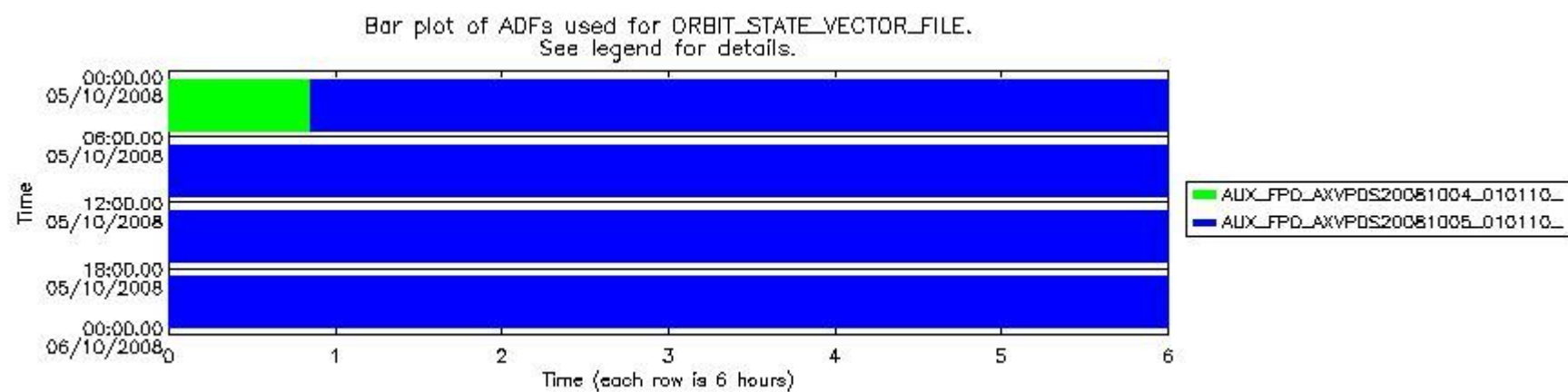
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

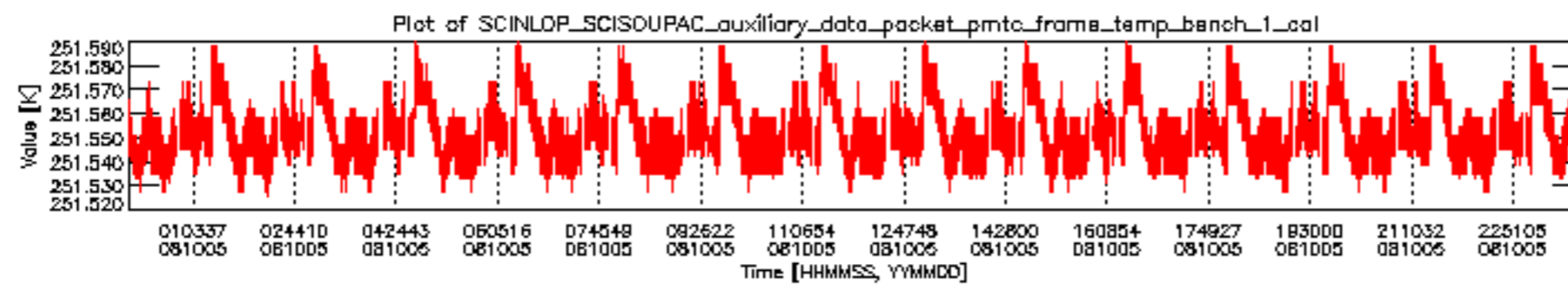
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20081004_010110_20081003_185240_20081013_201854
2	AUX_FPO_AXVPDS20081005_010110_20081004_182103_20081014_212753



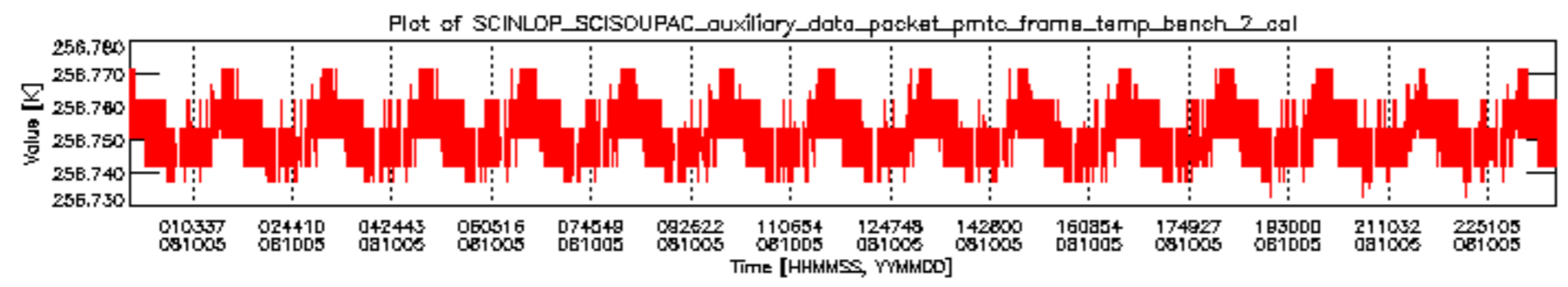
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081005\_7.PNG

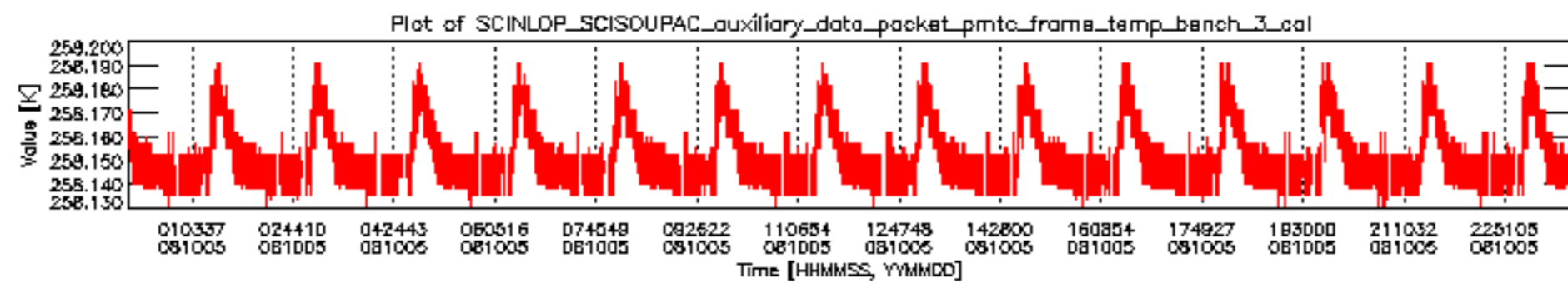


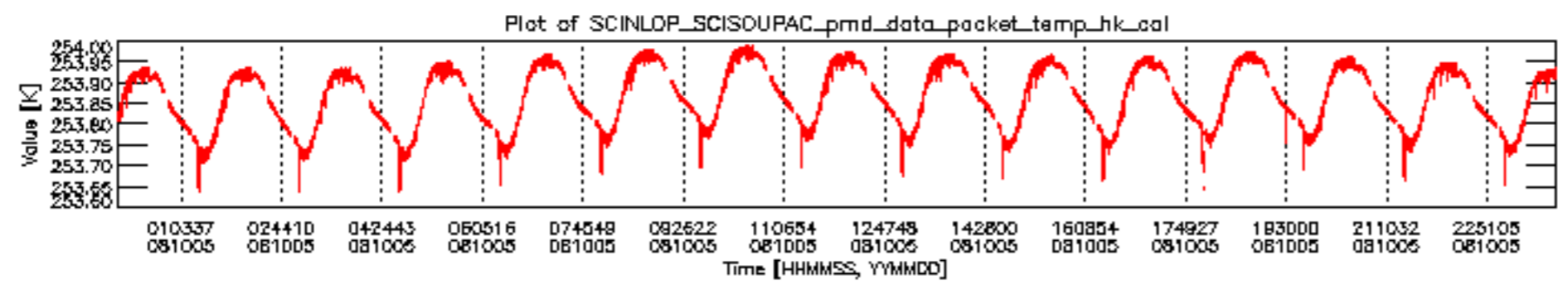
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081005\_8.PNG

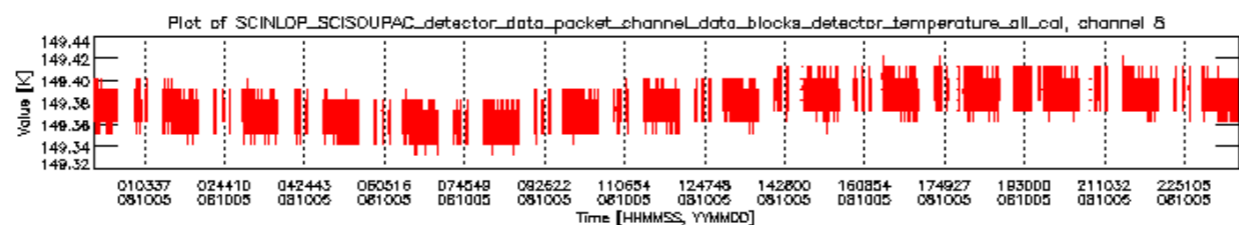
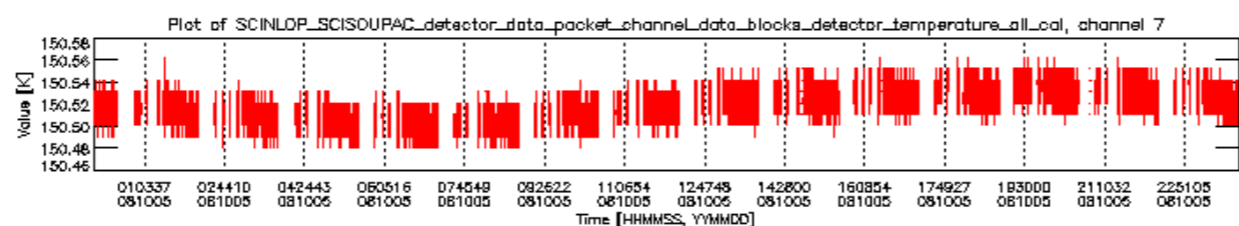
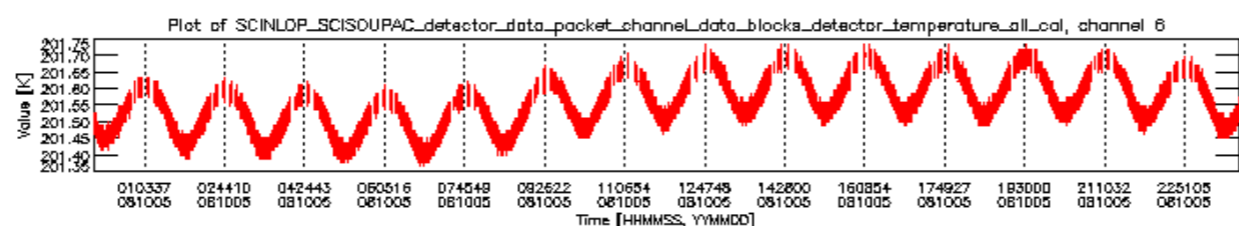
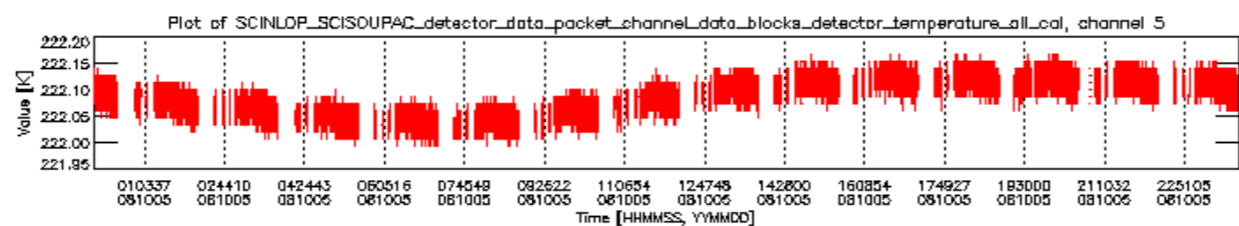
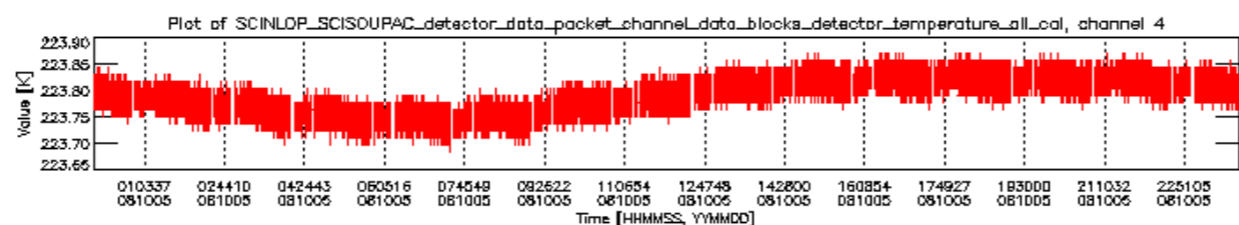
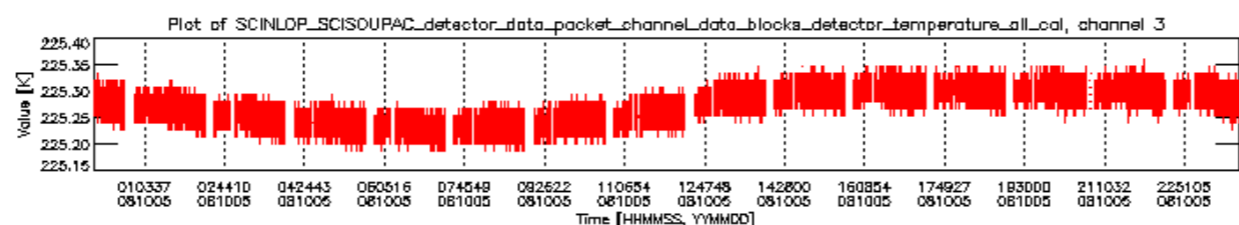
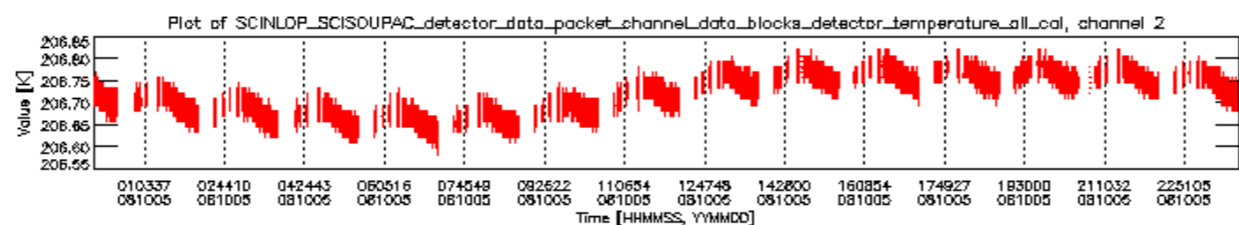
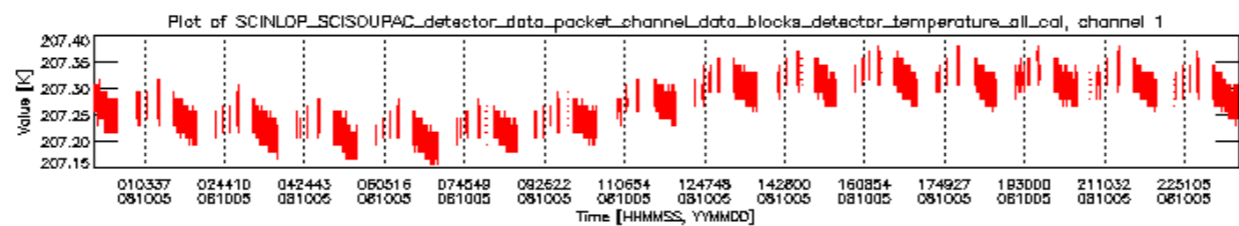




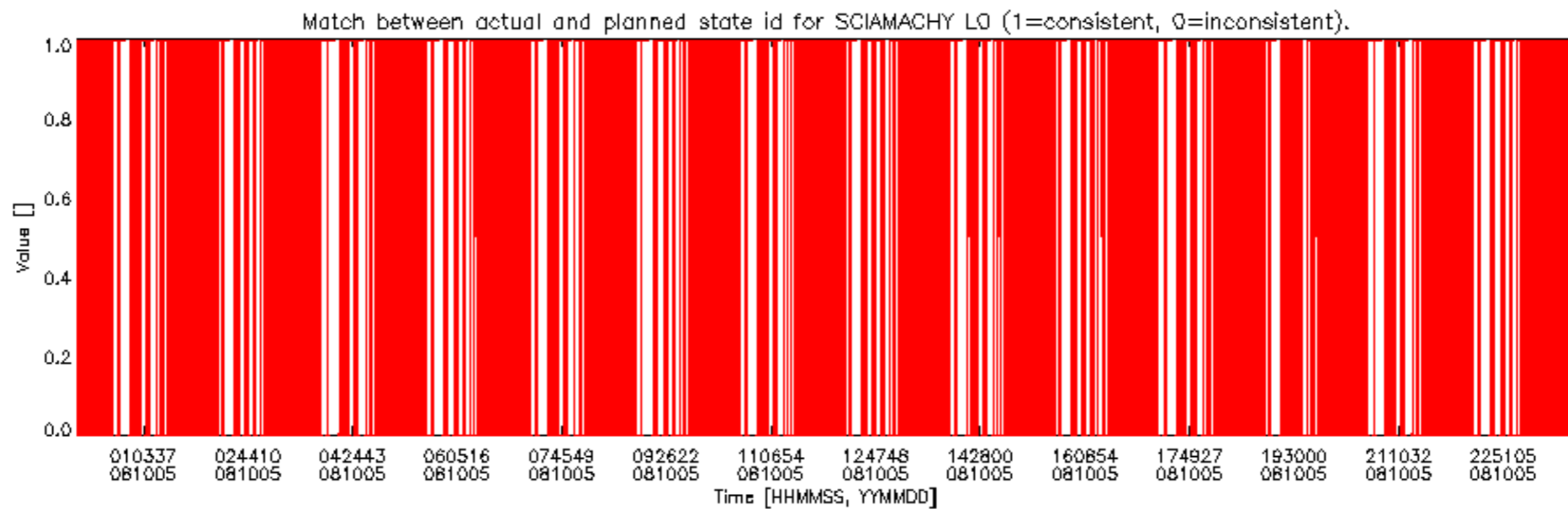
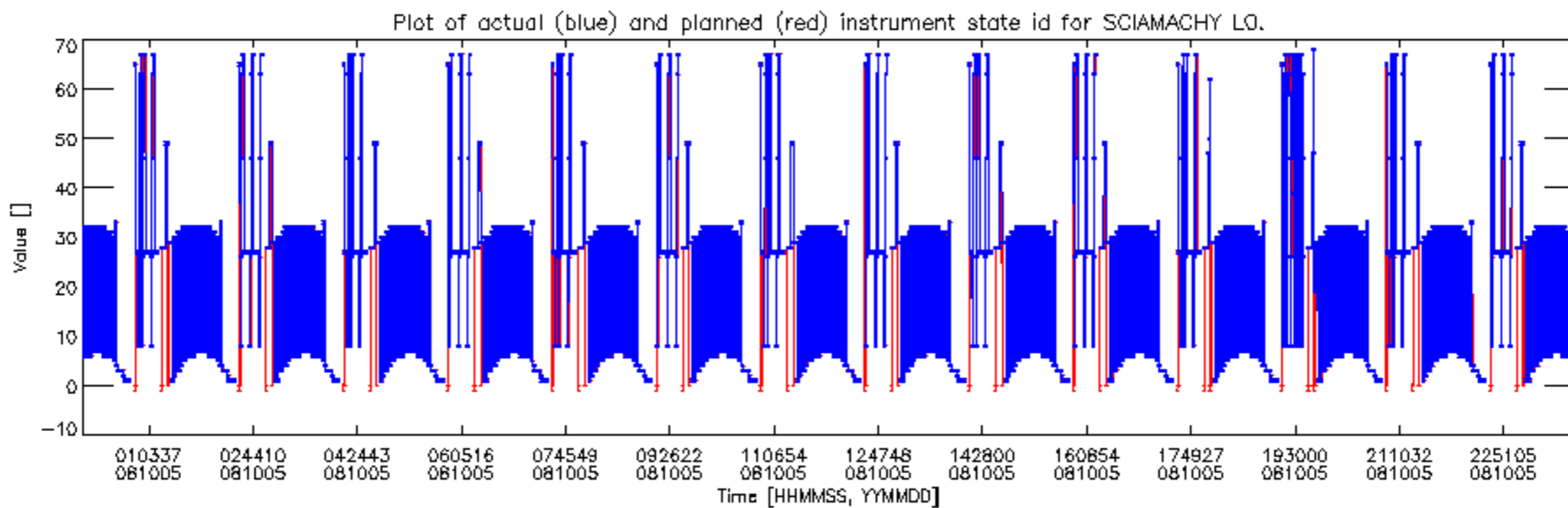












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 05OCT2008.  
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