

# 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	09OCT2007 11:35:45
Data source version	KSPT_L0/4302-N
Processing scope for products	06OCT2007 00:00:00 to 07OCT2007 00:00:00
Start time of first product within scope	05OCT2007 22:41:46
Stop time of last product within scope	07OCT2007 01:24:42
Total number of level 0 products	17
Number of level 0 products with errors	0

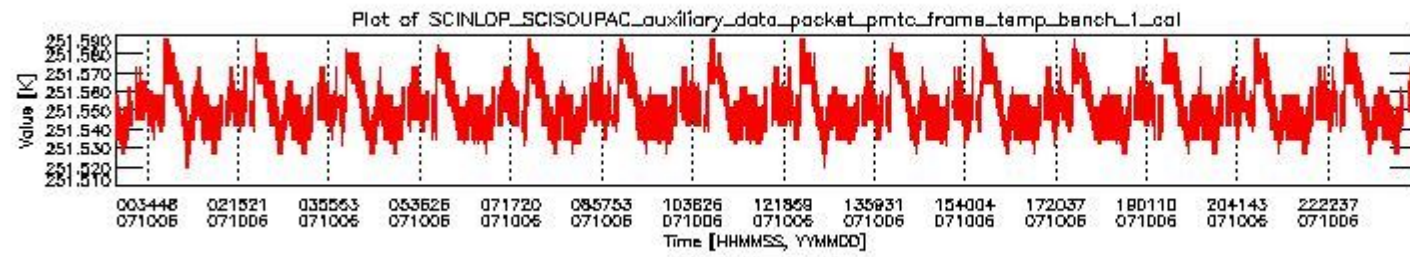
#### 0.1.2 Summary per product

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

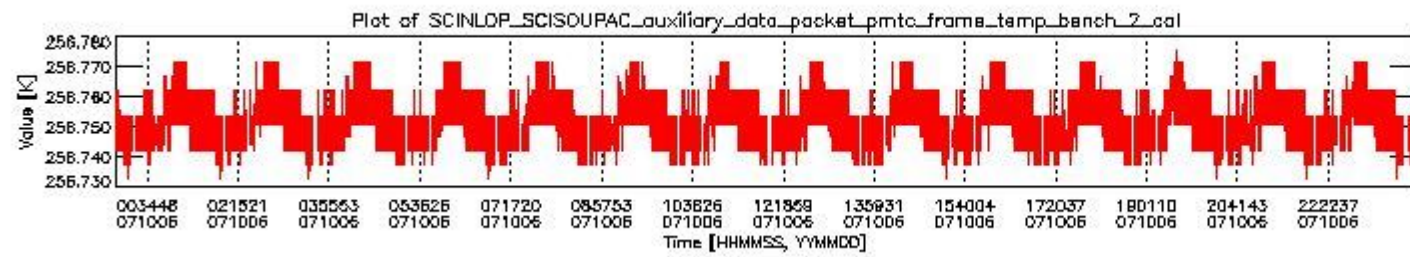
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20071005_224146_000060802062_00158_29270_5313.N1	05OCT2007 22:41:46	06OCT2007 00:23:06	0	0	0	0	0
1	SCI_NL__OPNPDE20071006_002222_000056292062_00159_29271_5314.N1	06OCT2007 00:22:22	06OCT2007 01:56:11	0	0	0	0	0
2	SCI_NL__OPNPDE20071006_020215_000043782062_00160_29272_5315.N1	06OCT2007 02:02:15	06OCT2007 03:15:13	0	0	0	0	0
3	SCI_NL__OPNPDE20071006_031513_000060922062_00161_29273_5316.N1	06OCT2007 03:15:13	06OCT2007 04:56:45	0	0	0	0	0
4	SCI_NL__OPNPDE20071006_045537_000061052062_00162_29274_5317.N1	06OCT2007 04:55:37	06OCT2007 06:37:22	0	0	0	0	0
5	SCI_NL__OPNPDK20071006_063722_000039772062_00163_29275_6269.N1	06OCT2007 06:37:22	06OCT2007 07:43:39	0	0	0	0	0
6	SCI_NL__OPNPDK20071006_074339_000061742062_00164_29276_6270.N1	06OCT2007 07:43:39	06OCT2007 09:26:32	0	0	0	0	0
7	SCI_NL__OPNPDK20071006_092524_000059682062_00165_29277_6271.N1	06OCT2007 09:25:24	06OCT2007 11:04:51	0	0	0	0	0
8	SCI_NL__OPNPDK20071006_110356_000061052062_00166_29278_6272.N1	06OCT2007 11:03:56	06OCT2007 12:45:41	0	0	0	0	0
9	SCI_NL__OPNPDK20071006_124432_000059682062_00167_29279_6273.N1	06OCT2007 12:44:32	06OCT2007 14:24:00	0	0	0	0	0
10	SCI_NL__OPNPDK20071006_142304_000059812062_00168_29280_6274.N1	06OCT2007 14:23:04	06OCT2007 16:02:45	0	0	0	0	0
11	SCI_NL__OPNPDK20071006_160040_000059042062_00169_29281_6275.N1	06OCT2007 16:00:40	06OCT2007 17:39:04	0	0	0	0	0
12	SCI_NL__OPNPDK20071006_173707_000060372062_00170_29282_6276.N1	06OCT2007 17:37:07	06OCT2007 19:17:44	0	0	0	0	0
13	SCI_NL__OPNPDK20071006_191744_000061742062_00171_29283_6277.N1	06OCT2007 19:17:44	06OCT2007 21:00:38	0	0	0	0	0
14	SCI_NL__OPNPDE20071006_205820_000043162062_00172_29284_5318.N1	06OCT2007 20:58:20	06OCT2007 22:10:16	0	0	0	0	0
15	SCI_NL__OPNPDE20071006_220932_000060802062_00172_29284_5319.N1	06OCT2007 22:09:32	06OCT2007 23:50:52	0	0	0	0	0
16	SCI_NL__OPNPDE20071006_235008_000056732062_00173_29285_5320.N1	06OCT2007 23:50:08	07OCT2007 01:24:42	0	0	0	0	0

### 0.2 Product Quality Indicators

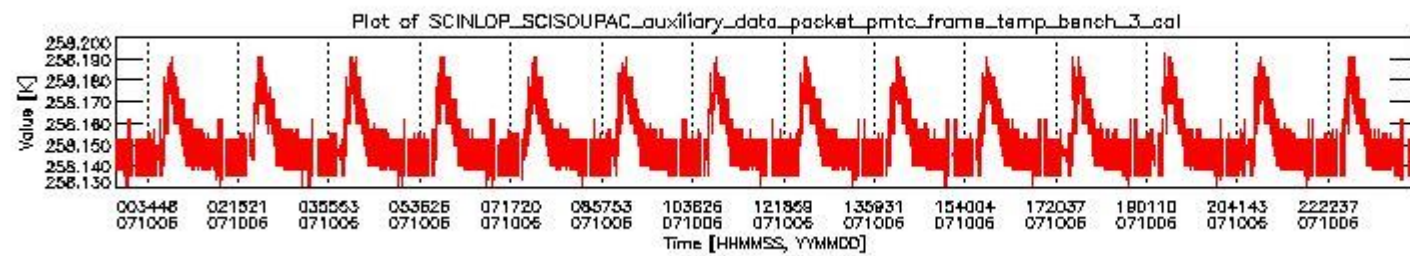
This section shows information about product quality, currently temperatures.



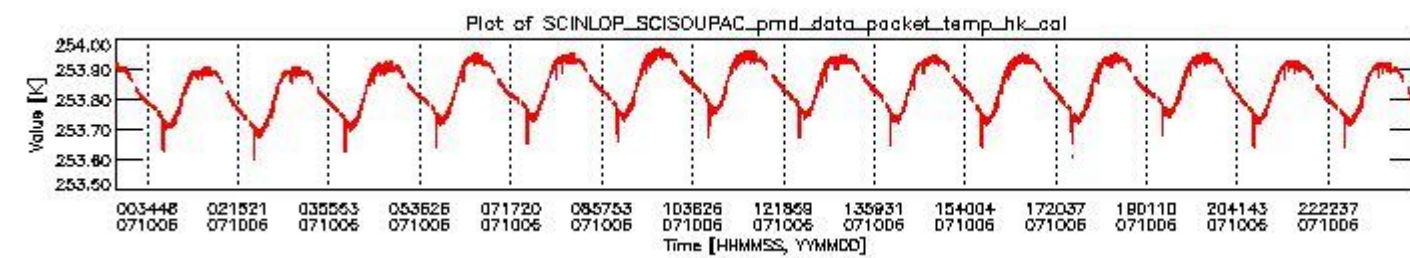
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071006\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071006\_1.PNG

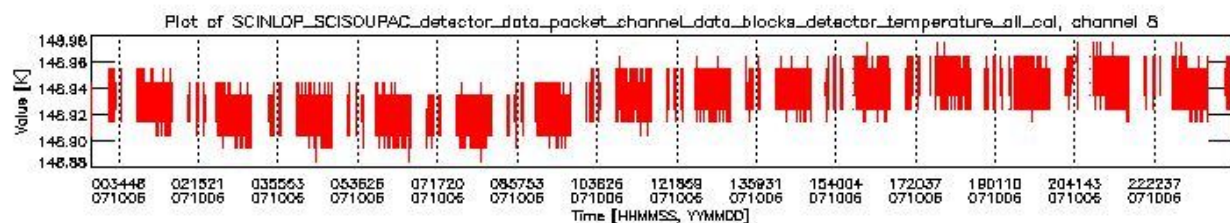
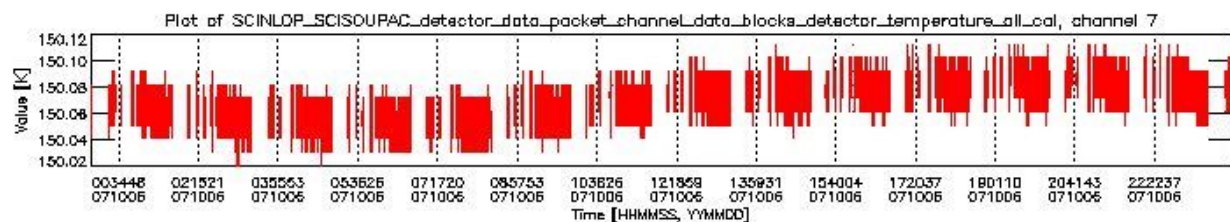
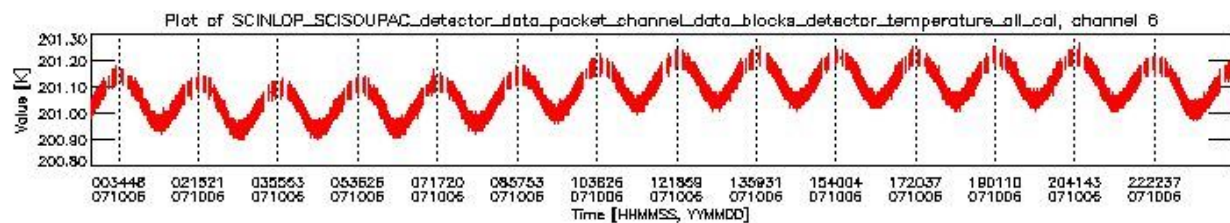
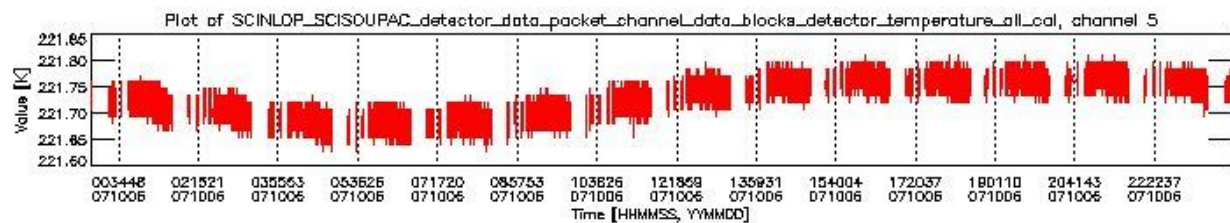
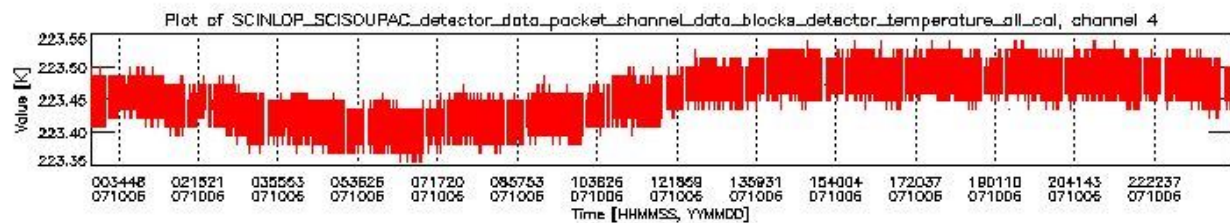
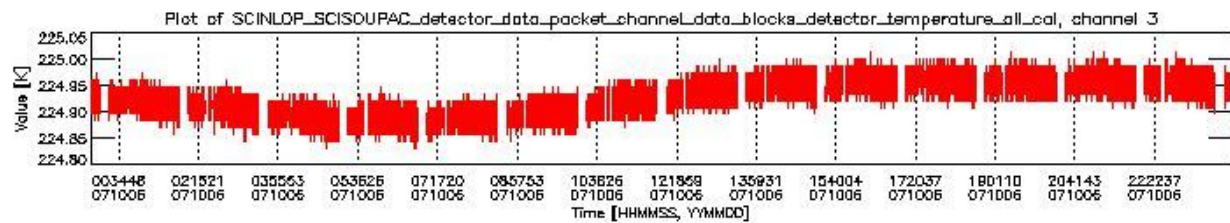
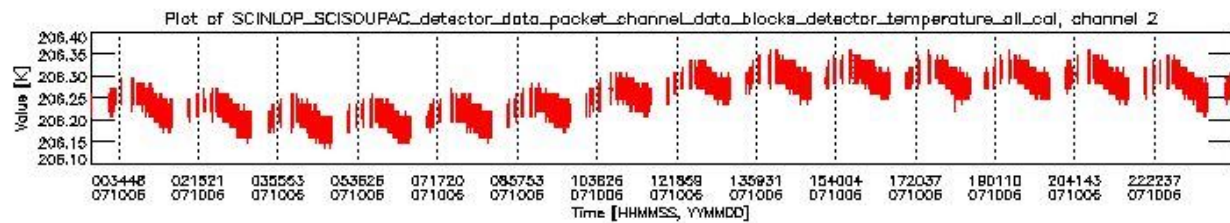
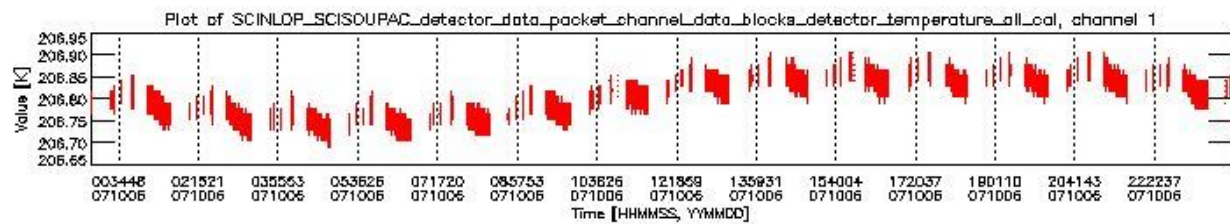


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071006\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071006\_3.PNG



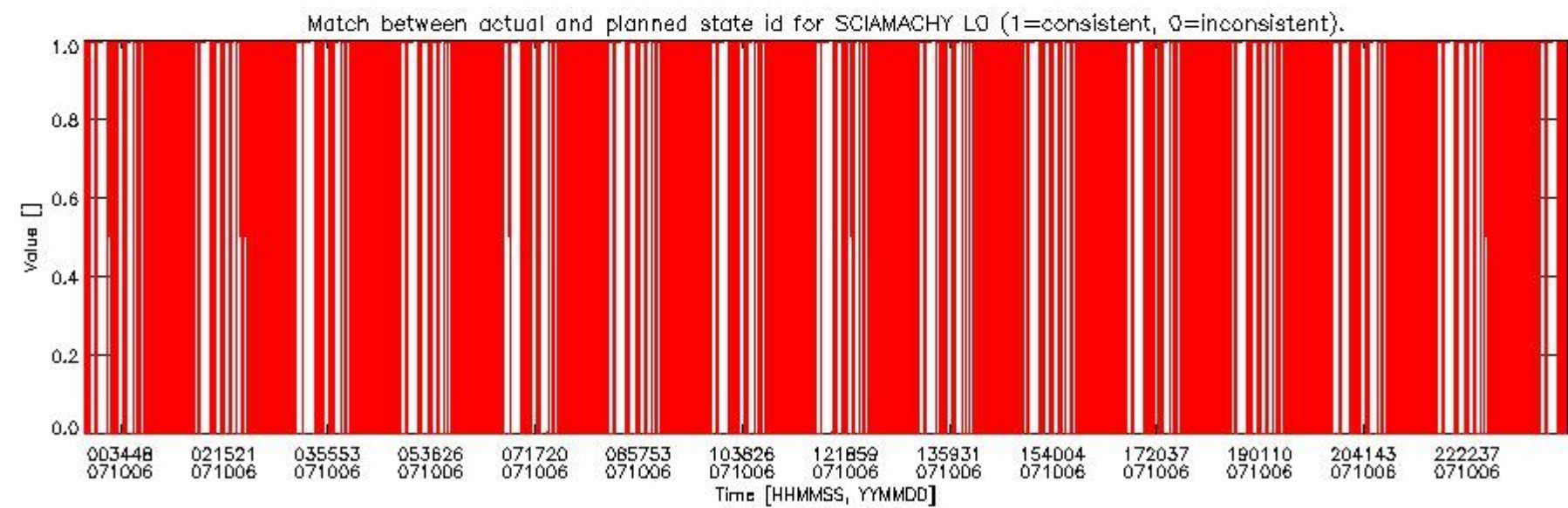
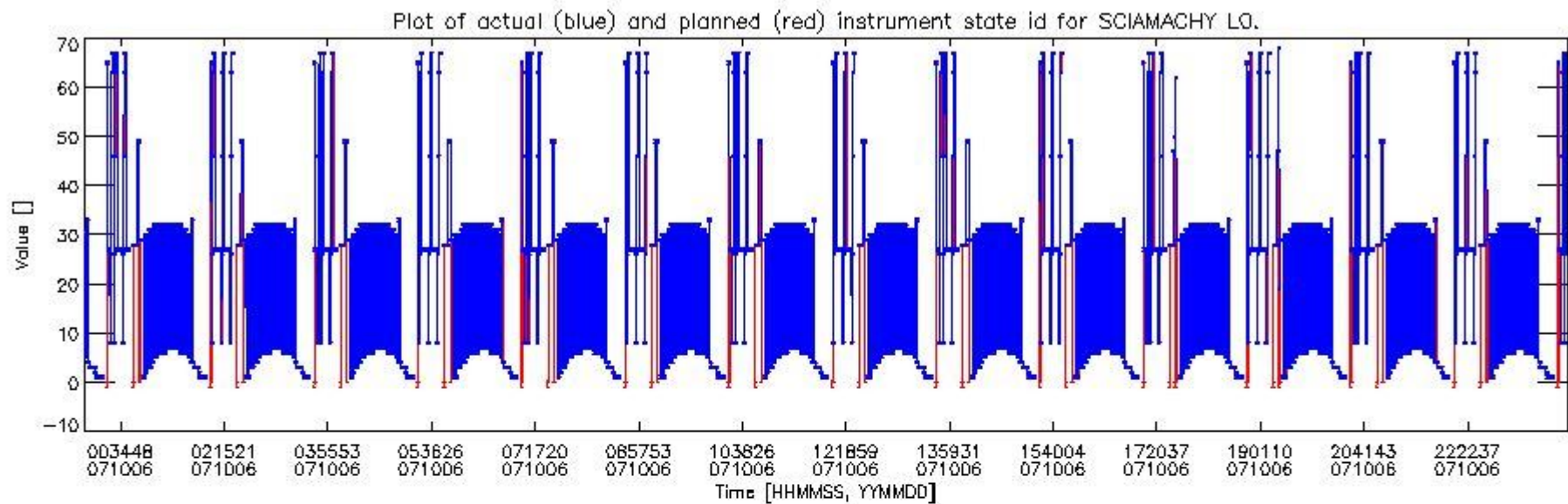


### 0.3 State monitoring

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: **31519**

#	Actual time	Actual value	Planned time	Planned value
0	06OCT2007 00:00:13.700107	30	06OCT2007 00:00:13.700107	6
1	06OCT2007 00:00:14.325088	30	06OCT2007 00:00:14.325088	6
2	06OCT2007 00:00:14.700101	30	06OCT2007 00:00:14.700101	6
3	06OCT2007 00:00:15.075114	30	06OCT2007 00:00:15.075114	6
4	06OCT2007 00:00:15.637614	30	06OCT2007 00:00:15.637614	6
5	06OCT2007 00:00:16.012587	30	06OCT2007 00:00:16.012587	6
6	06OCT2007 00:00:16.387600	30	06OCT2007 00:00:16.387600	6
7	06OCT2007 00:00:16.762613	30	06OCT2007 00:00:16.762613	6
8	06OCT2007 00:00:17.325112	30	06OCT2007 00:00:17.325112	6
9	06OCT2007 00:00:17.700085	30	06OCT2007 00:00:17.700085	6
10	06OCT2007 00:00:18.075098	30	06OCT2007 00:00:18.075098	6
11	06OCT2007 00:00:18.450111	30	06OCT2007 00:00:18.450111	6
12	06OCT2007 00:00:18.700080	30	06OCT2007 00:00:18.700080	6
13	06OCT2007 00:00:19.012611	30	06OCT2007 00:00:19.012611	6
14	06OCT2007 00:00:19.387583	30	06OCT2007 00:00:19.387583	6
15	06OCT2007 00:00:19.762596	30	06OCT2007 00:00:19.762596	6
16	06OCT2007 00:00:20.137610	30	06OCT2007 00:00:20.137610	6
17	06OCT2007 00:01:09.575080	5	06OCT2007 00:01:09.575080	30
18	06OCT2007 00:01:09.825089	5	06OCT2007 00:01:09.825089	30
19	06OCT2007 00:01:09.950093	5	06OCT2007 00:01:09.950093	30
...	...	...	...	...



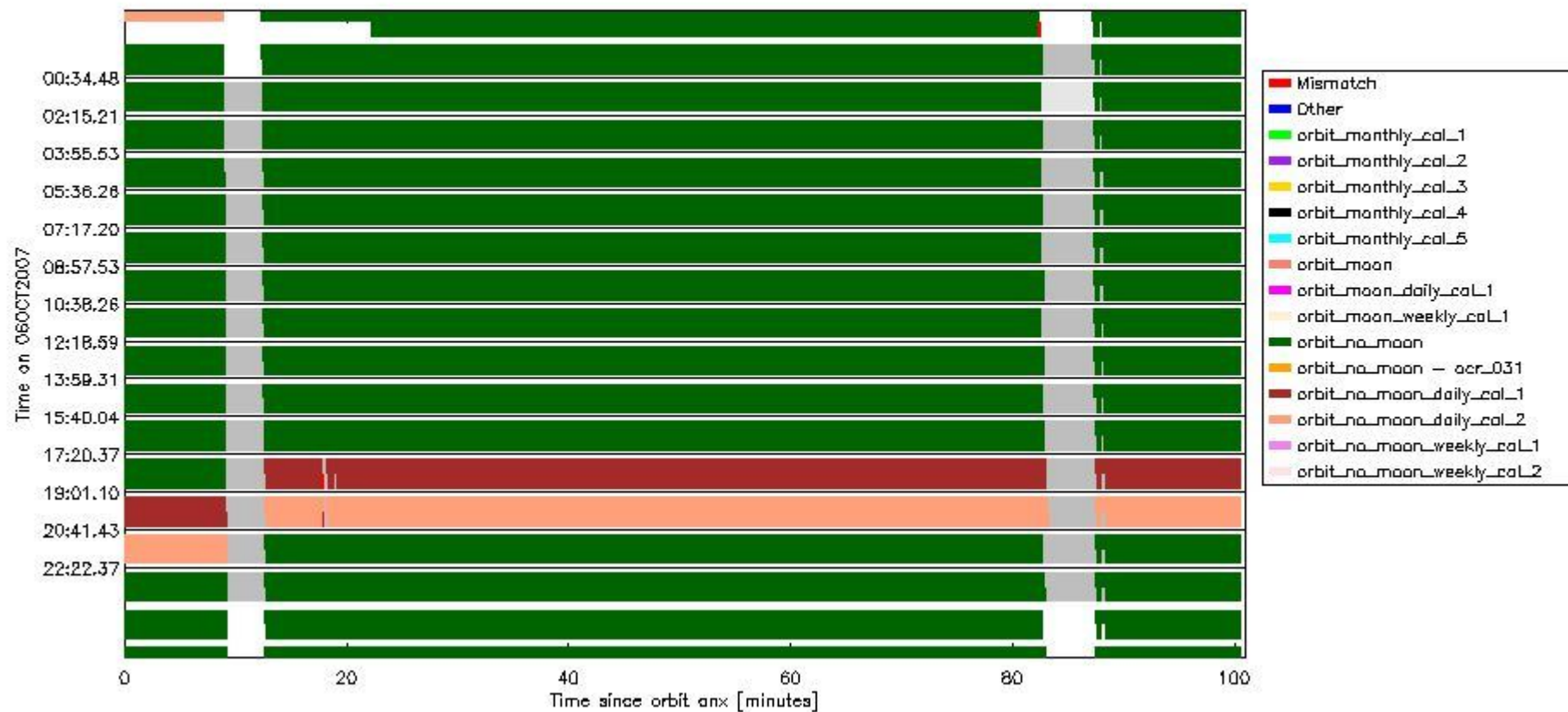
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071006\_5.PNG

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 06OCT2007.  
 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\_20071006\_6.PNG

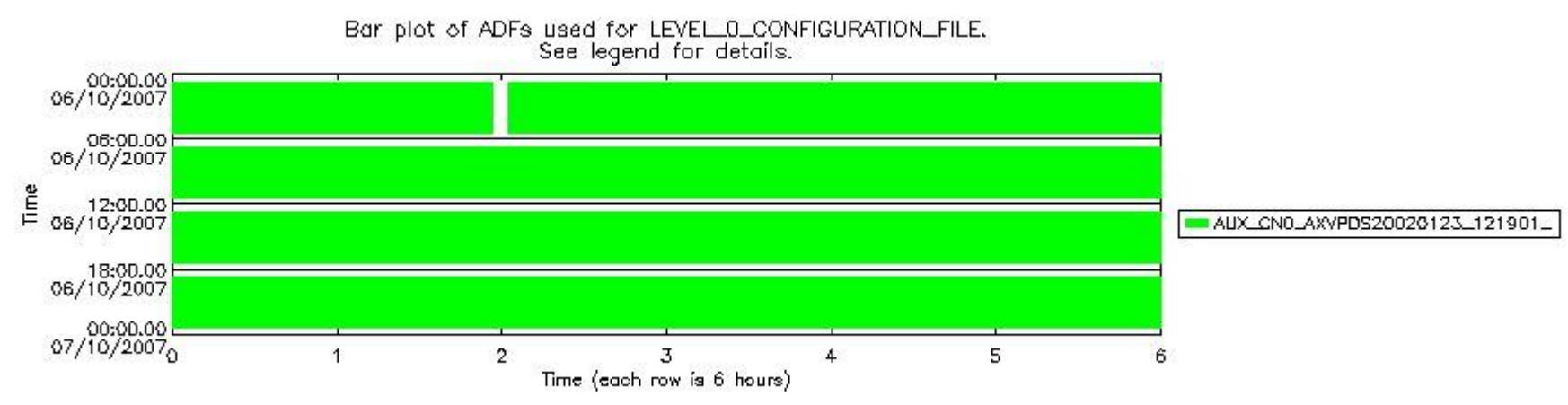
## 0.4 ADF monitoring

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

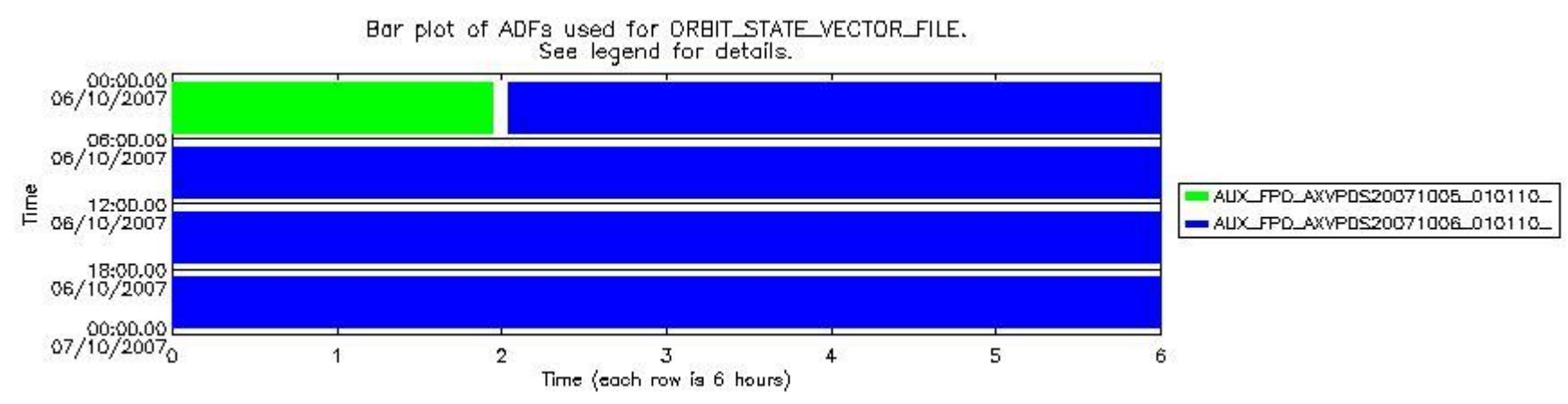
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

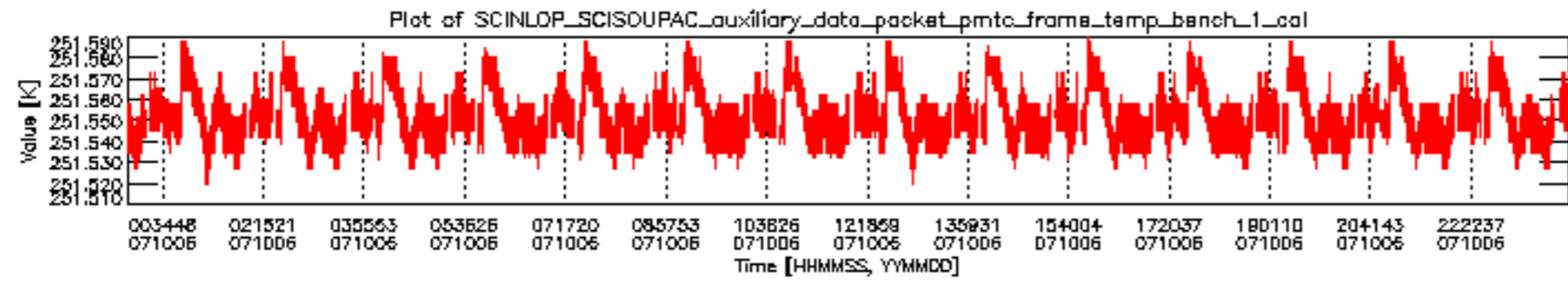
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20071005_010110_20071004_182358_20071014_213048
2	AUX_FPO_AXVPDS20071006_010110_20071005_193257_20071015_205911



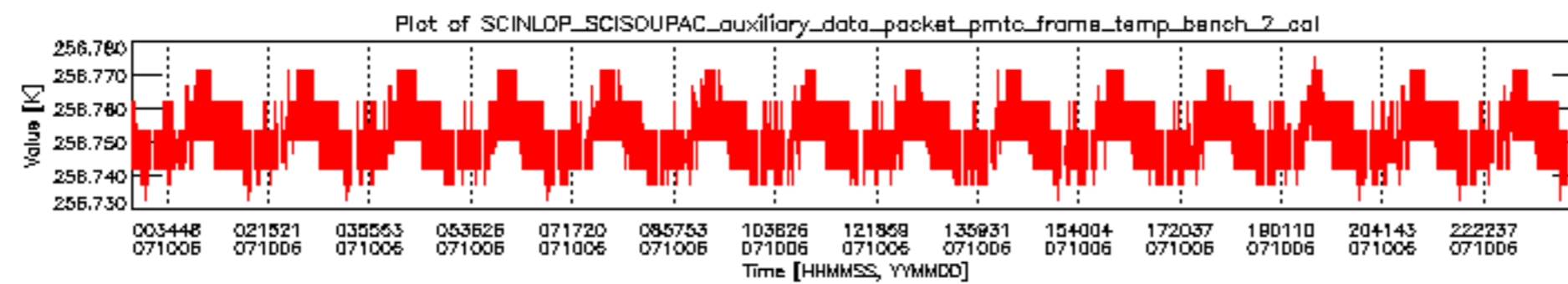
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071006\_7.PNG

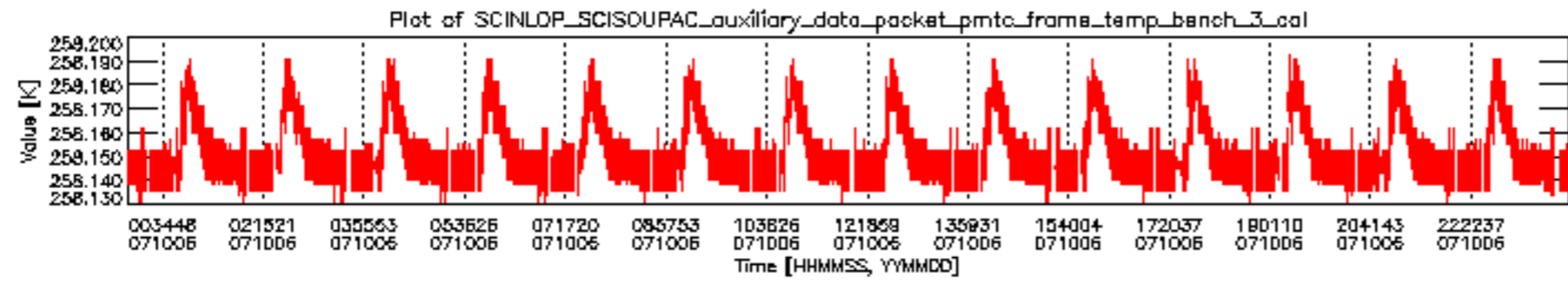


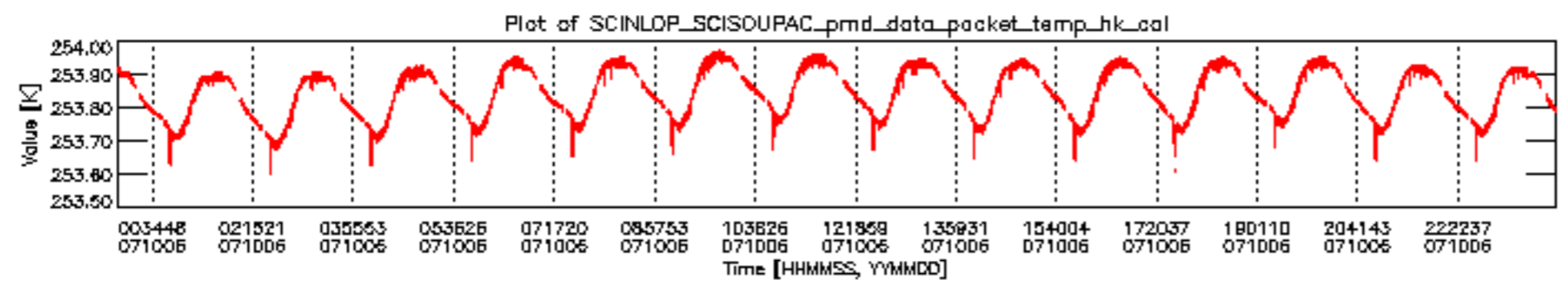
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4302\_N\_20071006\_8.PNG

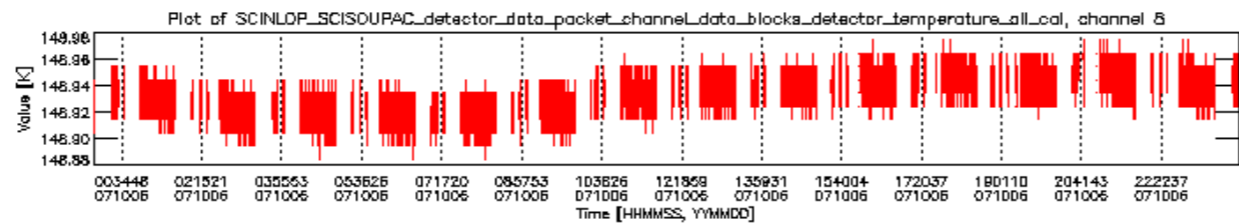
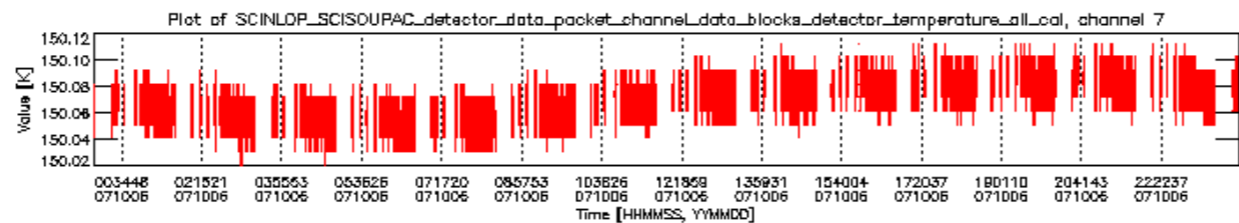
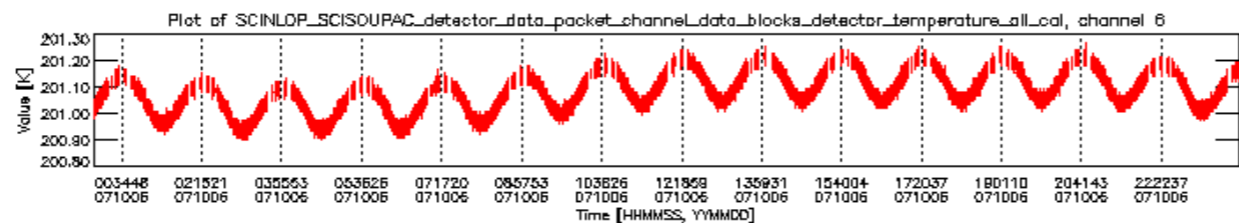
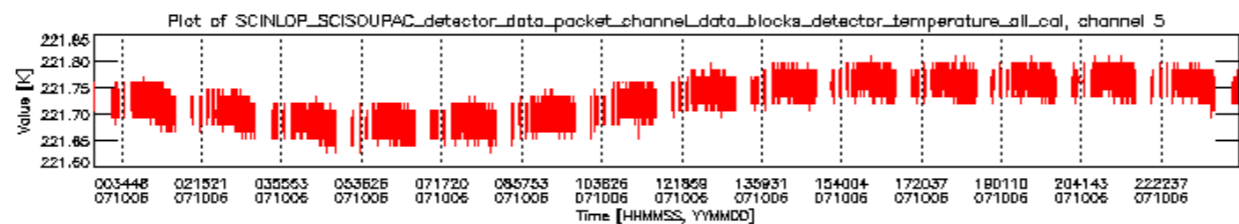
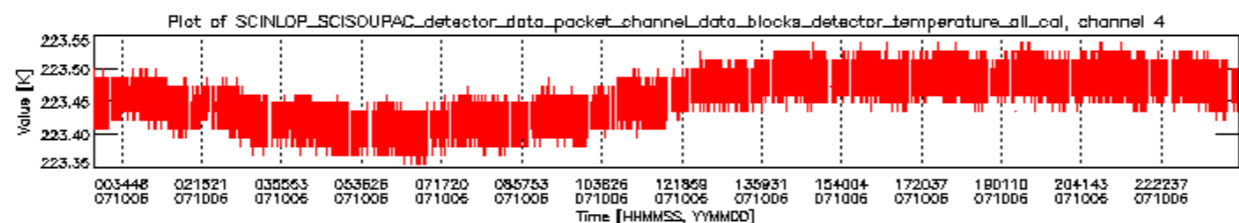
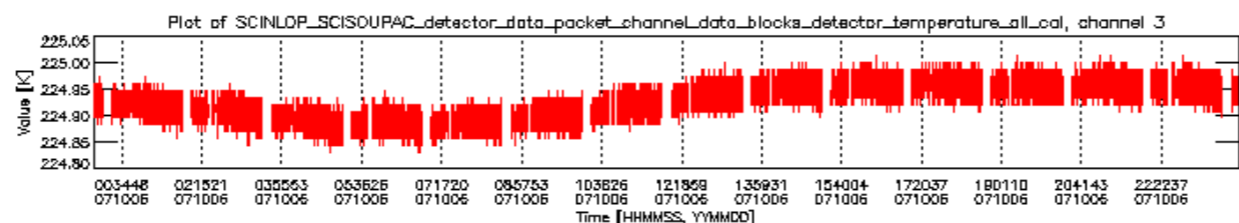
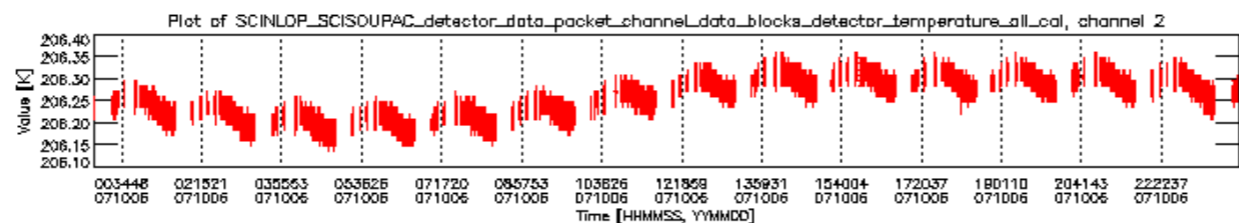
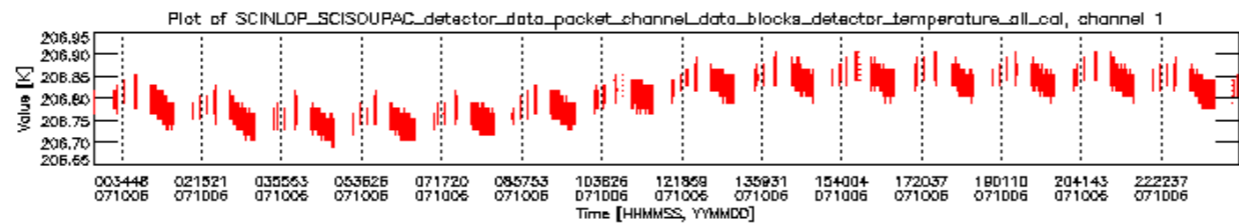




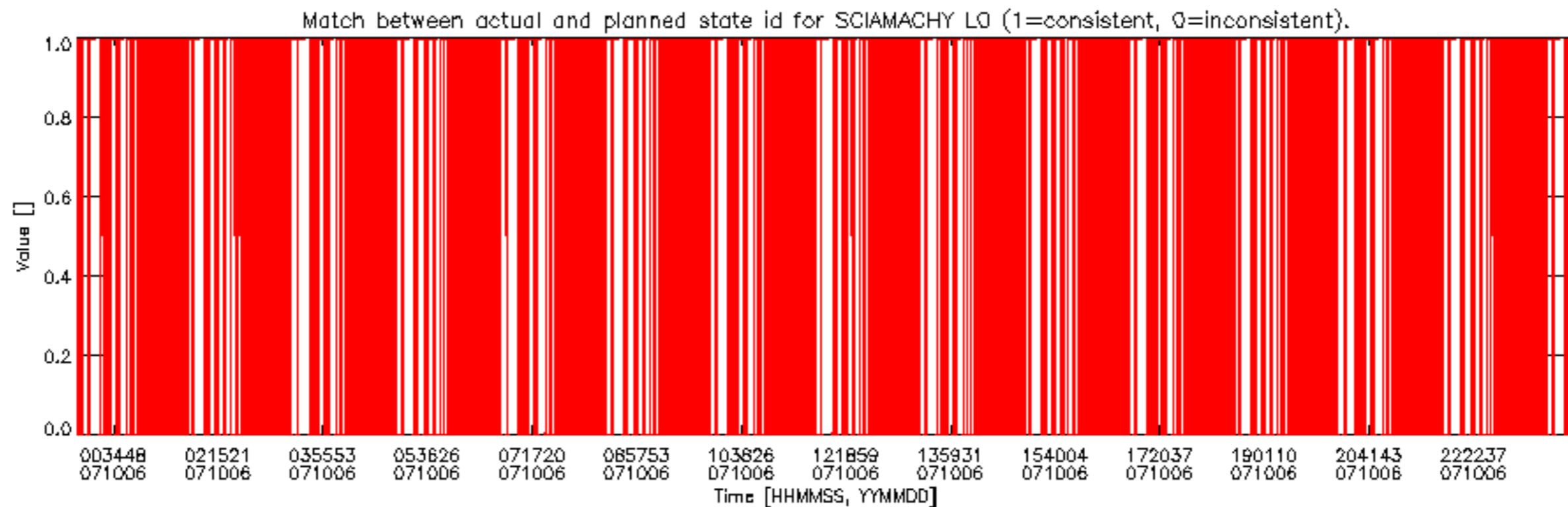
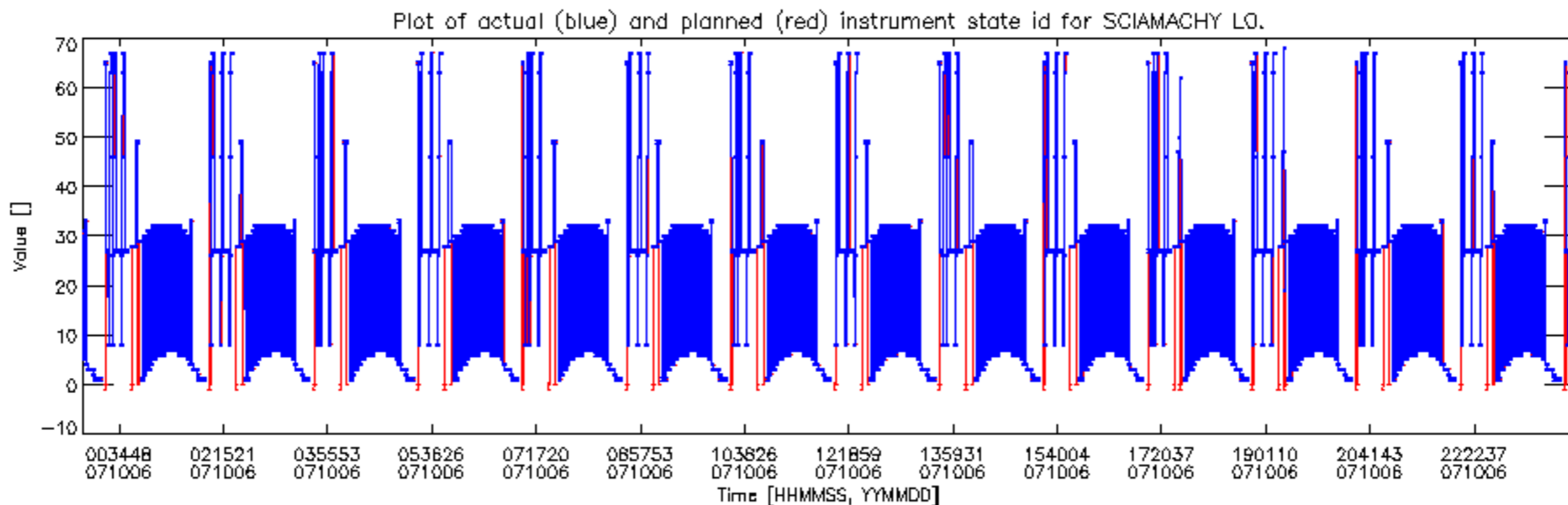












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 06OCT2007.  
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