

## 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	30OCT2008 05:31:06
Data source version	KSPT_L0/4303-N
Processing scope for products	26OCT2008 00:00:00 to 27OCT2008 00:00:00
Start time of first product within scope	25OCT2008 23:52:21
Stop time of last product within scope	27OCT2008 00:55:39
Total number of level 0 products	16
Number of level 0 products with errors	0

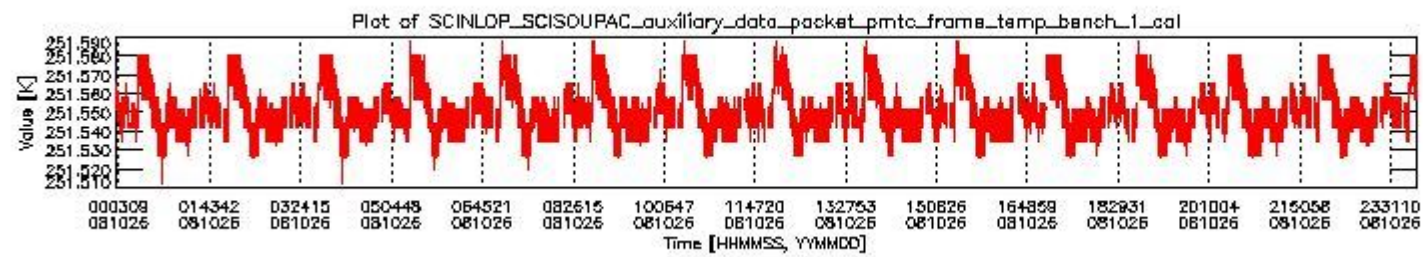
### 0.1.2 Summary per product

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

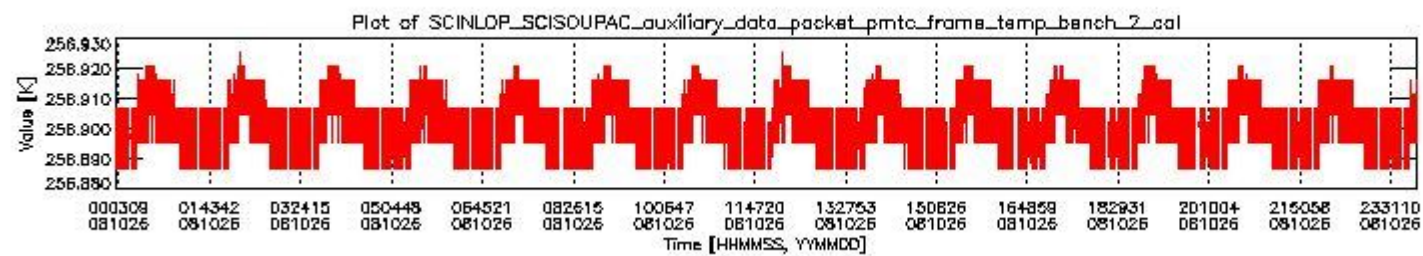
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081025_235221_000056892073_00173_34796_7781.N1	25OCT2008 23:52:21	26OCT2008 01:27:10	0	0	0	0	0
1	SCI_NL__OPNPDE20081026_013257_000044932073_00174_34797_7782.N1	26OCT2008 01:32:57	26OCT2008 02:47:50	0	0	0	0	0
2	SCI_NL__OPNPDE20081026_024750_000058002073_00175_34798_7783.N1	26OCT2008 02:47:50	26OCT2008 04:24:31	0	0	0	0	0
3	SCI_NL__OPNPDE20081026_042431_000060242073_00176_34799_7784.N1	26OCT2008 04:24:31	26OCT2008 06:04:54	0	0	0	0	0
4	SCI_NL__OPNPDK20081026_060454_000041832073_00177_34800_9768.N1	26OCT2008 06:04:54	26OCT2008 07:14:37	0	0	0	0	0
5	SCI_NL__OPNPDK20081026_071328_000060922073_00178_34801_9769.N1	26OCT2008 07:13:28	26OCT2008 08:55:01	0	0	0	0	0
6	SCI_NL__OPNPDK20081026_085405_000060362073_00179_34802_9770.N1	26OCT2008 08:54:05	26OCT2008 10:34:41	0	0	0	0	0
7	SCI_NL__OPNPDK20081026_103237_000059122073_00180_34803_9771.N1	26OCT2008 10:32:37	26OCT2008 12:11:09	0	0	0	0	0
8	SCI_NL__OPNPDK20081026_121013_000061612073_00181_34804_9772.N1	26OCT2008 12:10:13	26OCT2008 13:52:53	0	0	0	0	0
9	SCI_NL__OPNPDK20081026_135145_000058692073_00182_34805_9773.N1	26OCT2008 13:51:45	26OCT2008 15:29:34	0	0	0	0	0
10	SCI_NL__OPNPDK20081026_152716_000060362073_00183_34806_9774.N1	26OCT2008 15:27:16	26OCT2008 17:07:52	0	0	0	0	0
11	SCI_NL__OPNPDK20081026_170752_000058682073_00184_34807_9775.N1	26OCT2008 17:07:52	26OCT2008 18:45:40	0	0	0	0	0
12	SCI_NL__OPNPDK20081026_184444_000057382073_00185_34808_9776.N1	26OCT2008 18:44:44	26OCT2008 20:20:22	0	0	0	0	0
13	SCI_NL__OPNPDE20081026_202521_000041462073_00186_34809_7785.N1	26OCT2008 20:25:21	26OCT2008 21:34:27	0	0	0	0	0
14	SCI_NL__OPNPDE20081026_214014_000056772073_00186_34809_7786.N1	26OCT2008 21:40:14	26OCT2008 23:14:50	0	0	0	0	0
15	SCI_NL__OPNPDE20081026_232050_000056892073_00187_34810_7787.N1	26OCT2008 23:20:50	27OCT2008 00:55:39	0	0	0	0	0

## 0.2 Product Quality Indicators

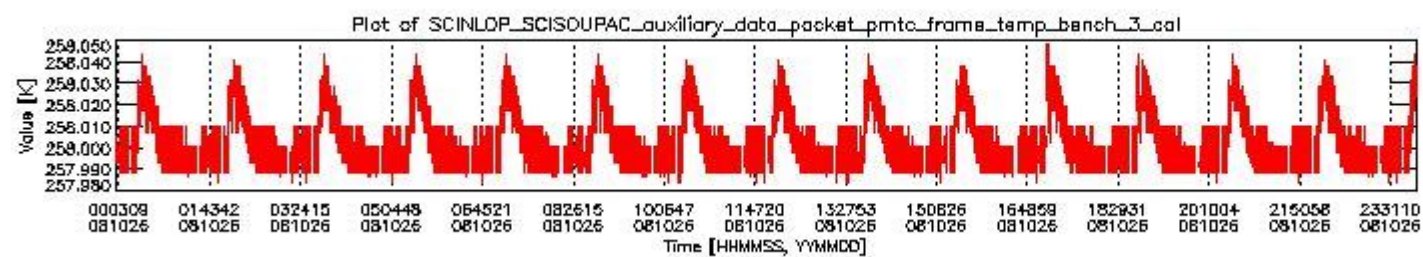
This section shows information about product quality, currently temperatures.



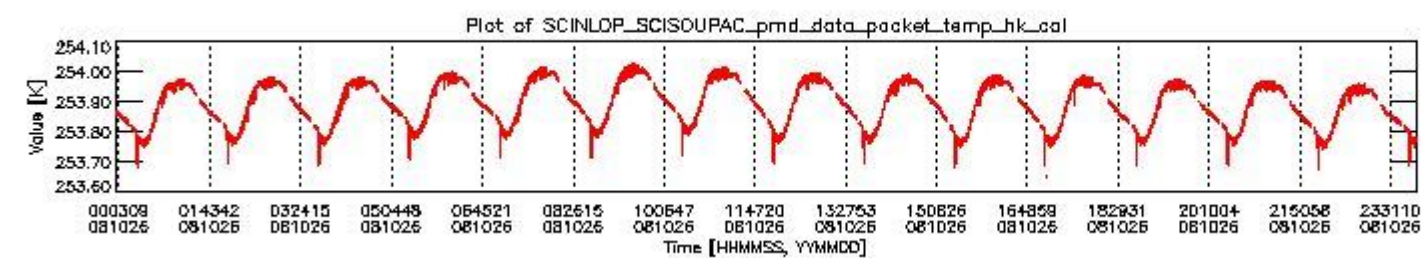
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081026\_0.PNG



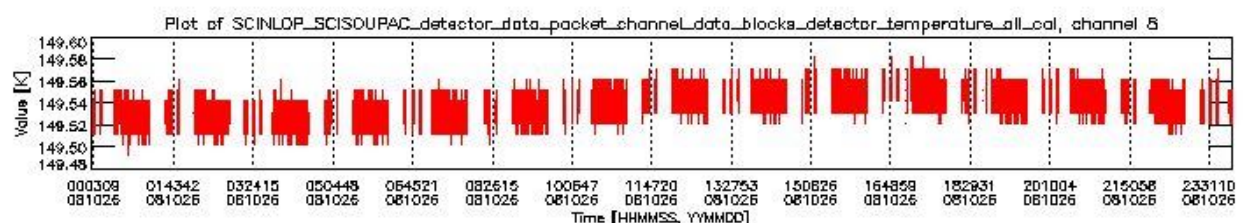
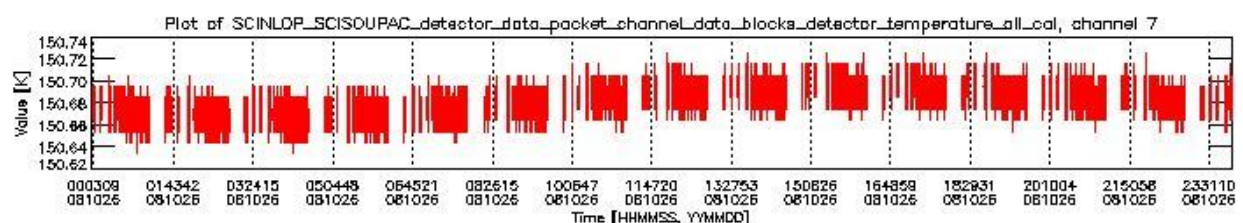
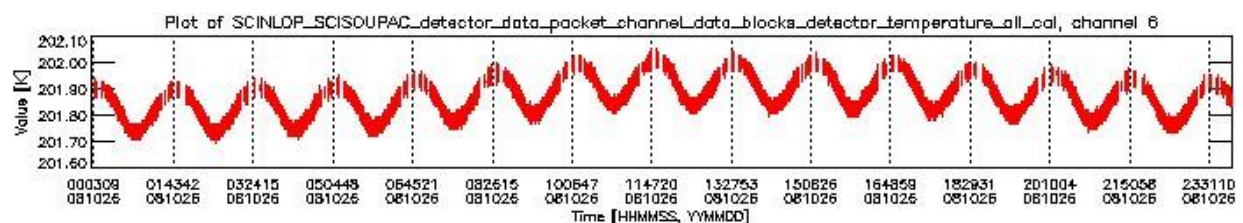
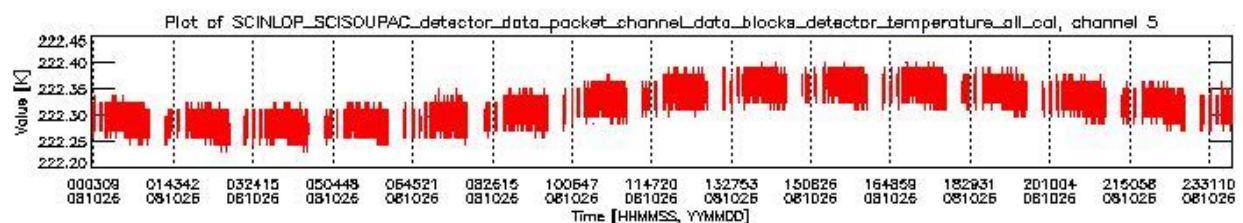
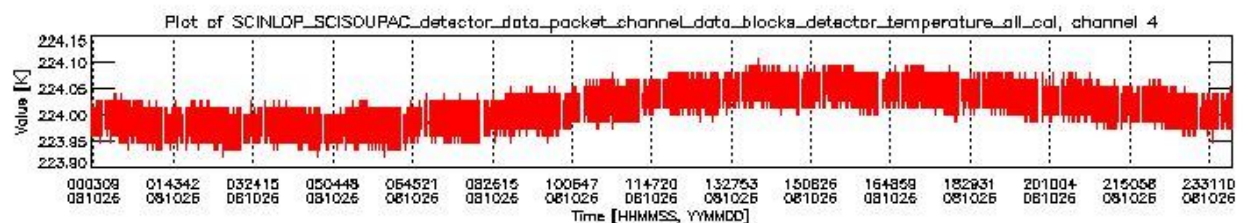
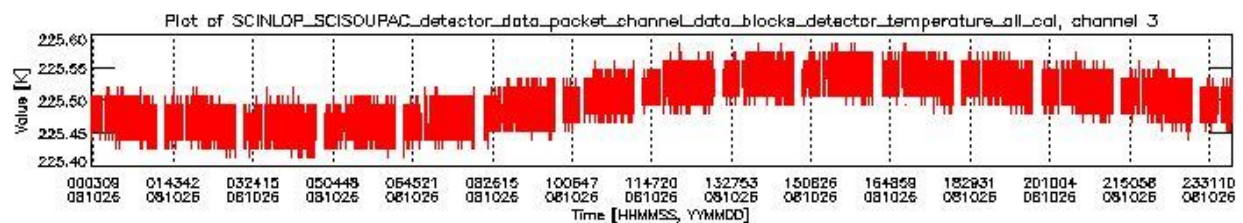
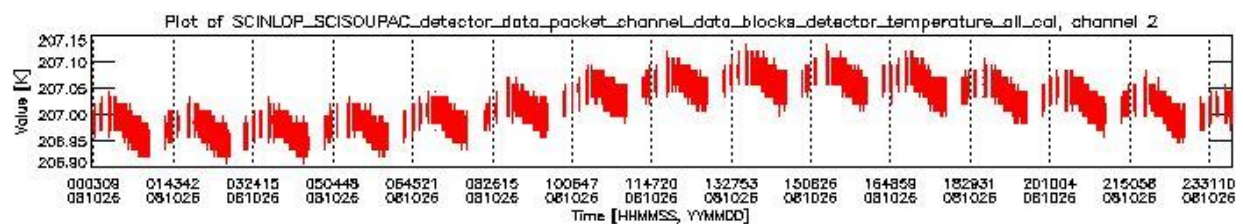
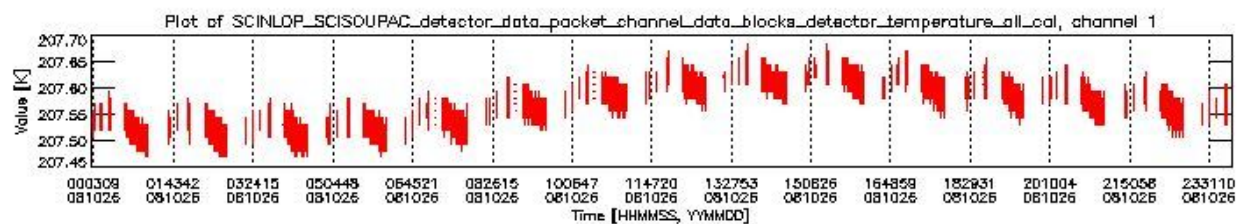
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081026\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081026\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081026\_3.PNG

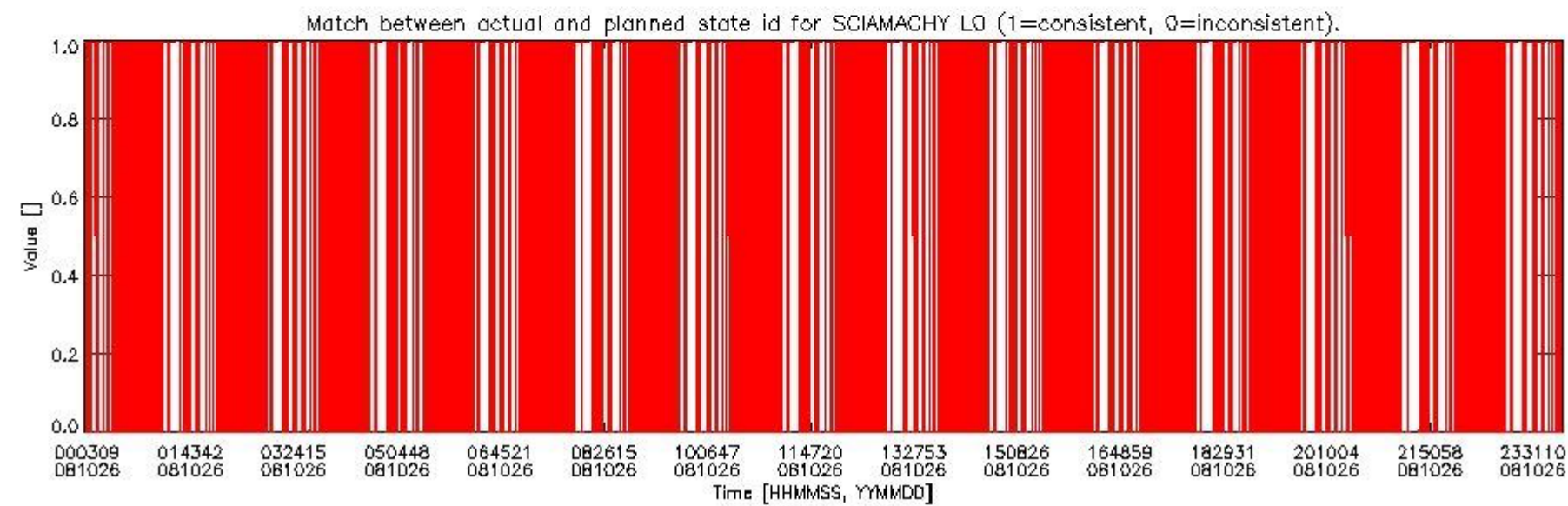
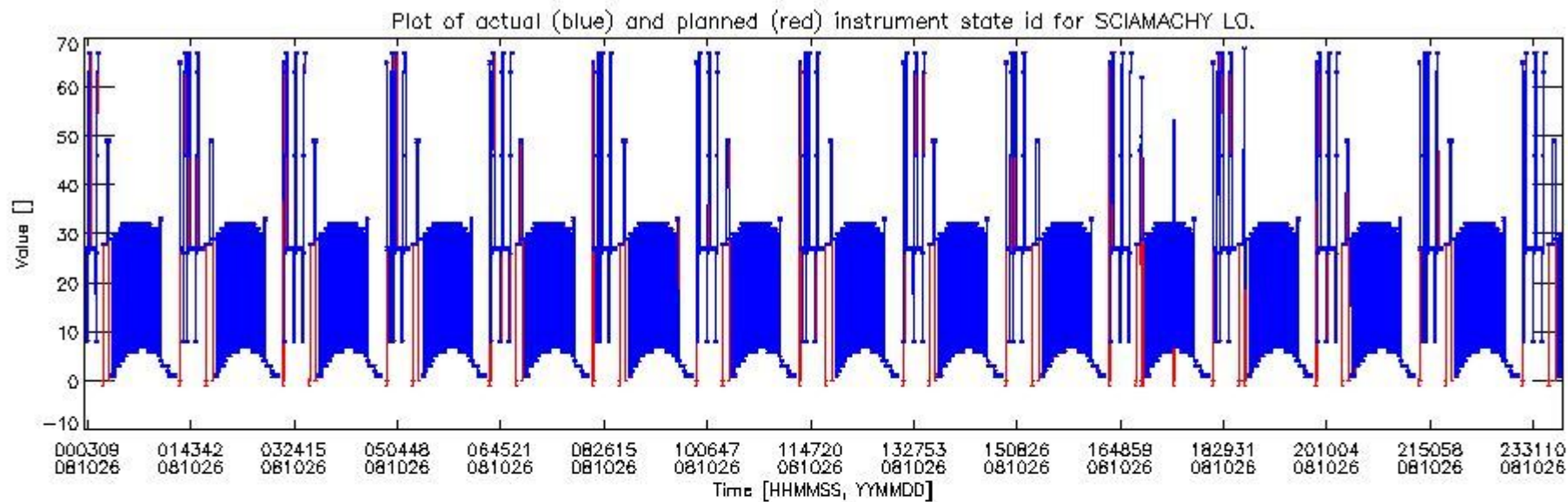


### 0.3 State monitoring

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: **46083**

#	Actual time	Actual value	Planned time	Planned value
0	26OCT2008 00:02:25.207541	8	26OCT2008 00:02:25.207541	27
1	26OCT2008 00:02:26.332540	8	26OCT2008 00:02:26.332540	27
2	26OCT2008 00:02:27.332574	8	26OCT2008 00:02:27.332574	27
3	26OCT2008 00:02:28.332569	8	26OCT2008 00:02:28.332569	27
4	26OCT2008 00:02:29.332564	8	26OCT2008 00:02:29.332564	27
5	26OCT2008 00:02:30.207554	8	26OCT2008 00:02:30.207554	27
6	26OCT2008 00:02:30.332558	8	26OCT2008 00:02:30.332558	27
7	26OCT2008 00:02:31.332553	8	26OCT2008 00:02:31.332553	27
8	26OCT2008 00:02:32.332547	8	26OCT2008 00:02:32.332547	27
9	26OCT2008 00:02:33.332542	8	26OCT2008 00:02:33.332542	27
10	26OCT2008 00:02:34.332536	8	26OCT2008 00:02:34.332536	27
11	26OCT2008 00:02:35.207567	8	26OCT2008 00:02:35.207567	27
12	26OCT2008 00:02:35.332571	8	26OCT2008 00:02:35.332571	27
13	26OCT2008 00:03:08.766146	26	26OCT2008 00:03:08.766146	8
14	26OCT2008 00:03:09.391167	26	26OCT2008 00:03:09.391167	8
15	26OCT2008 00:03:09.891145	26	26OCT2008 00:03:09.891145	8
16	26OCT2008 00:03:10.391162	26	26OCT2008 00:03:10.391162	8
17	26OCT2008 00:03:10.891139	26	26OCT2008 00:03:10.891139	8
18	26OCT2008 00:03:11.391157	26	26OCT2008 00:03:11.391157	8
19	26OCT2008 00:03:11.891174	26	26OCT2008 00:03:11.891174	8
	...	...	...	...

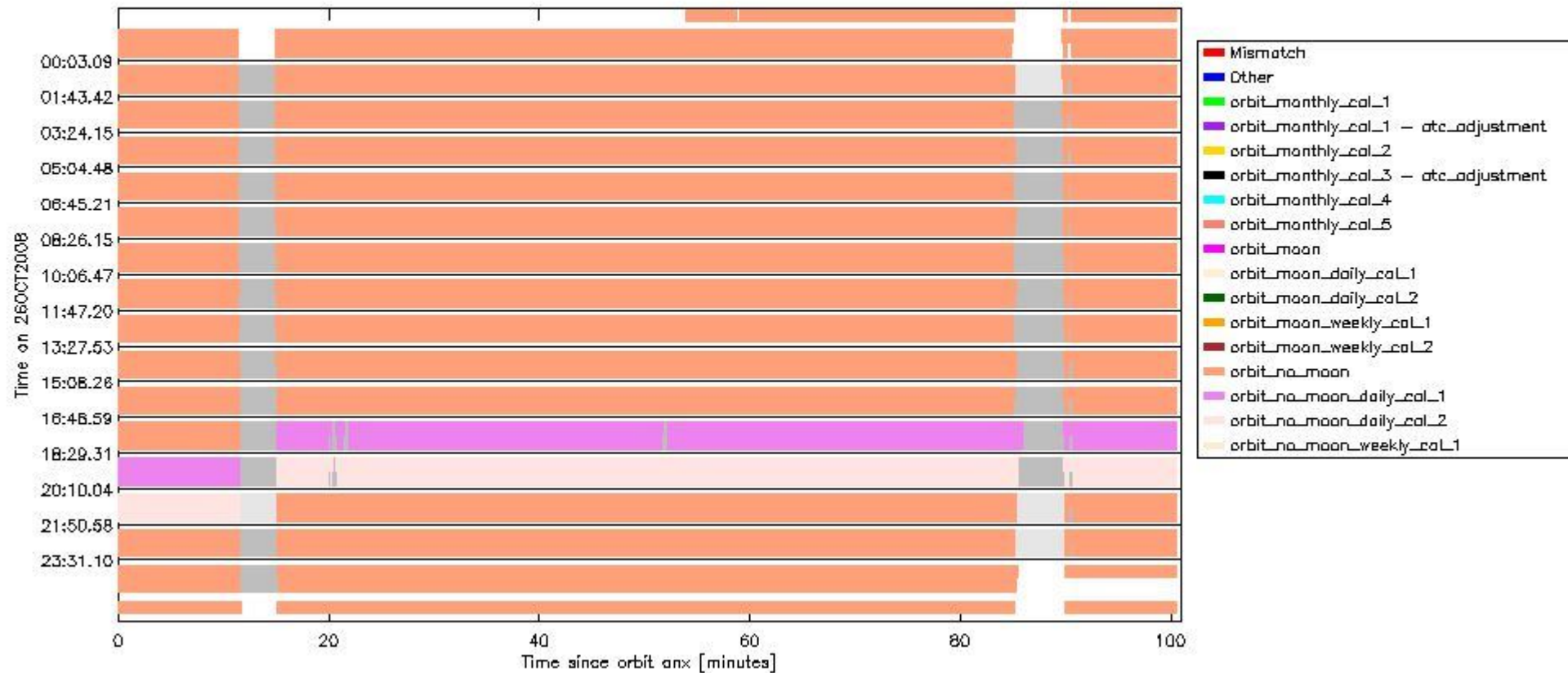


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081026\_5.PNG

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 26OCT2008.  
 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\_20081026\_6.PNG

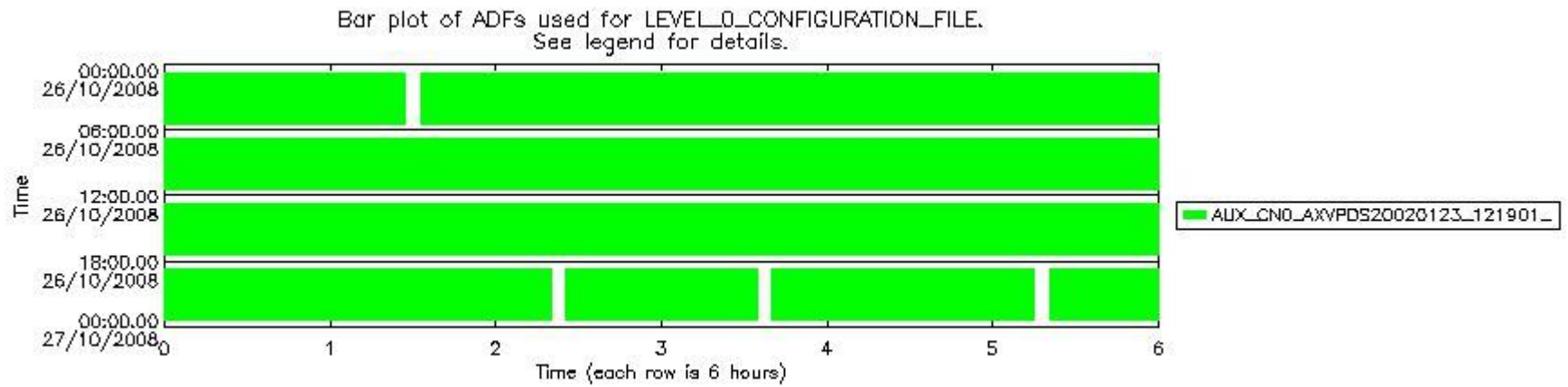
## 0.4 ADF monitoring

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

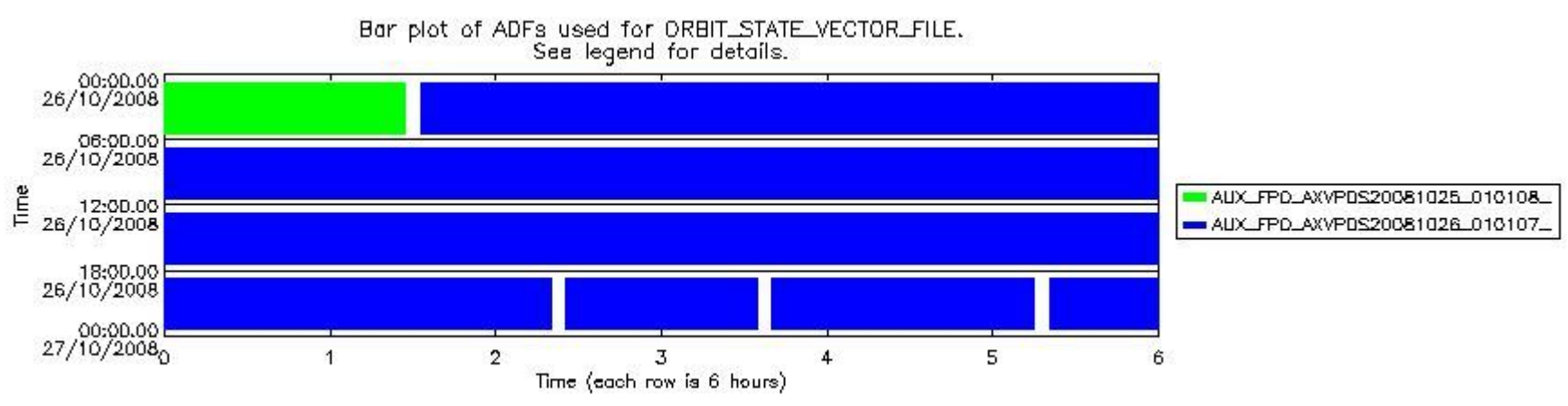
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

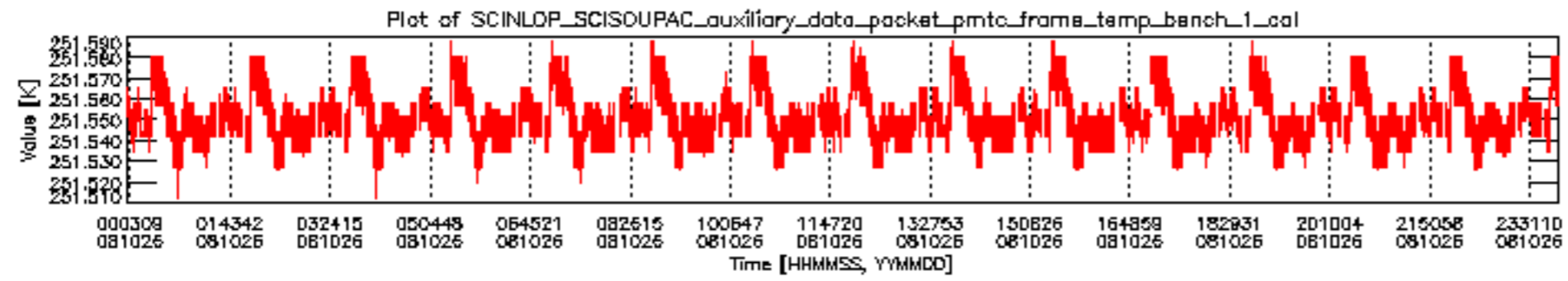
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20081025_010108_20081024_193254_20081103_205907
2	AUX_FPO_AXVPDS20081026_010107_20081025_190117_20081104_202729



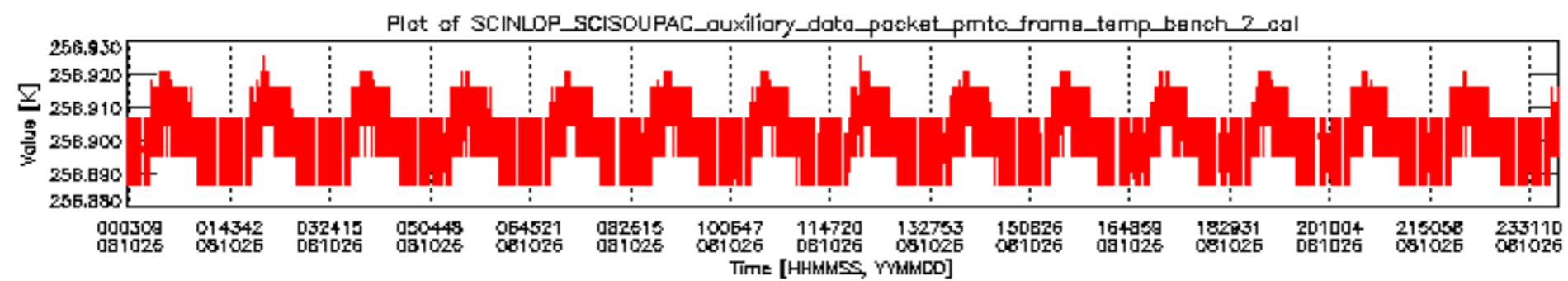
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081026\_7.PNG

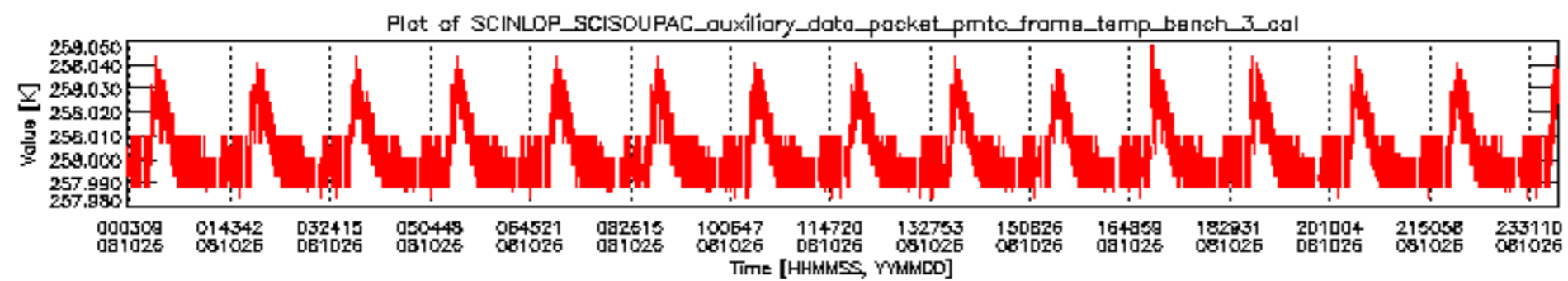


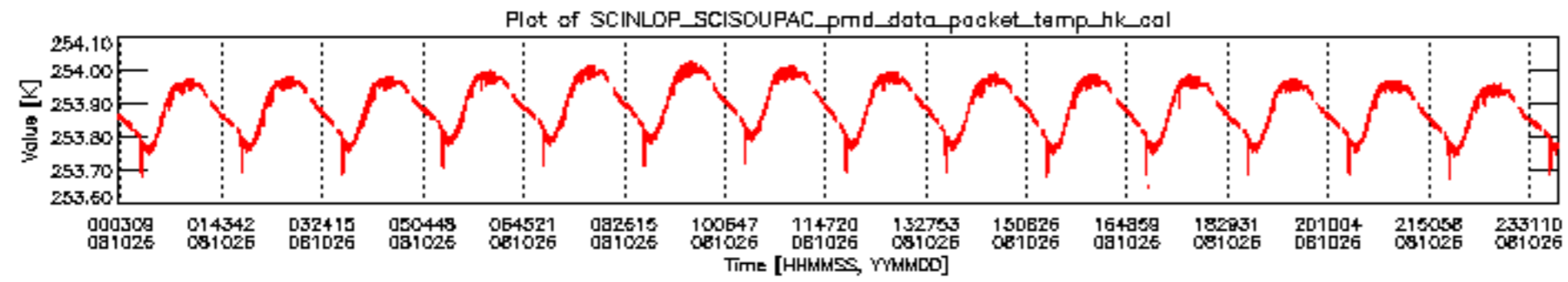
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081026\_8.PNG

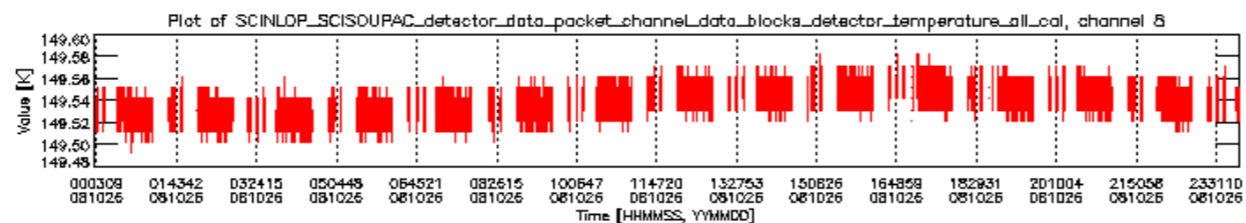
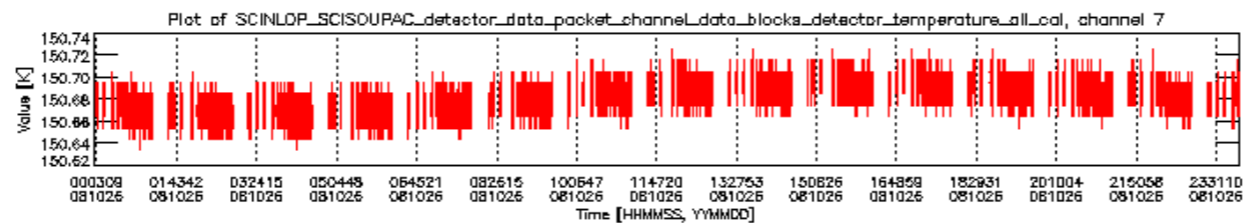
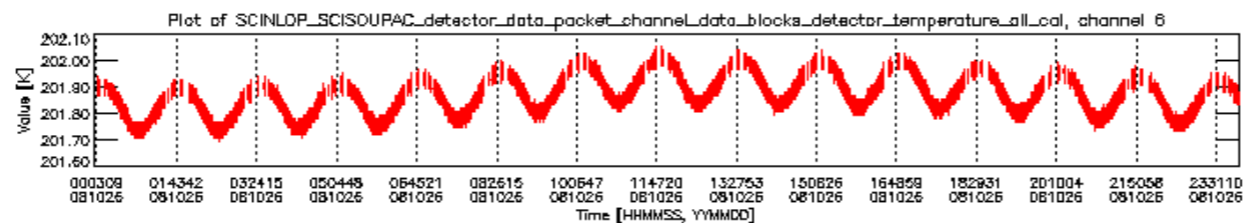
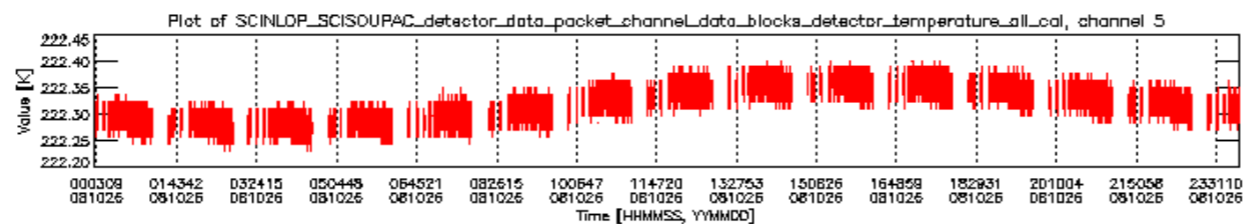
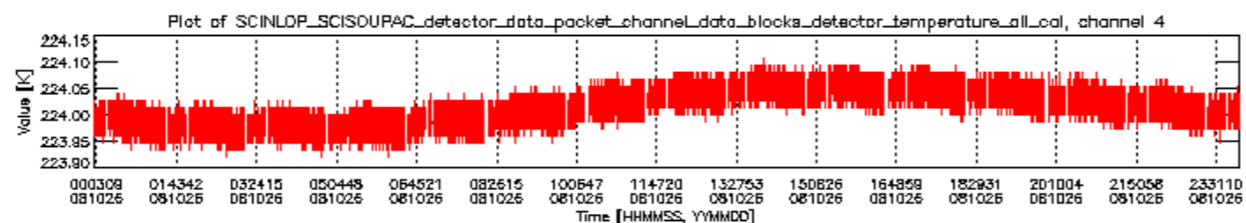
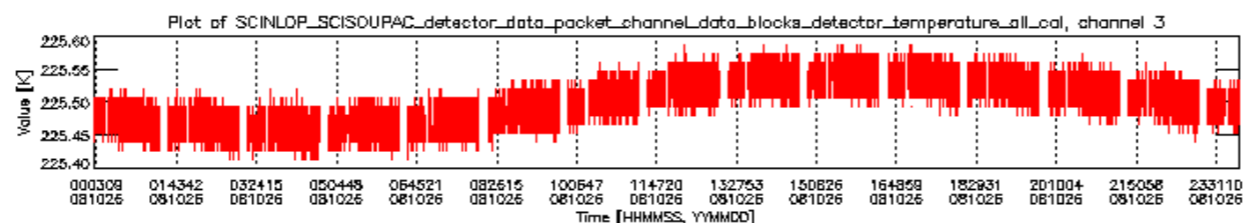
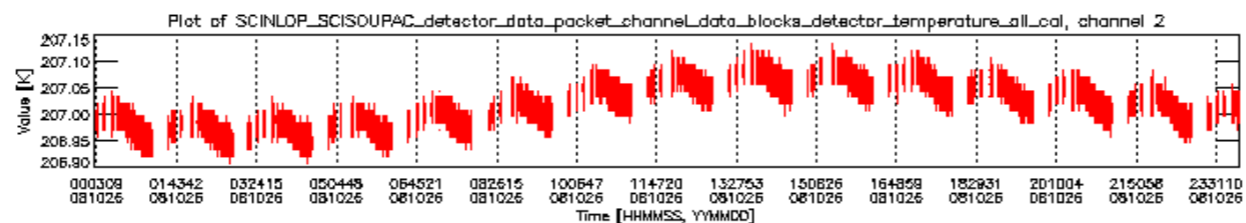
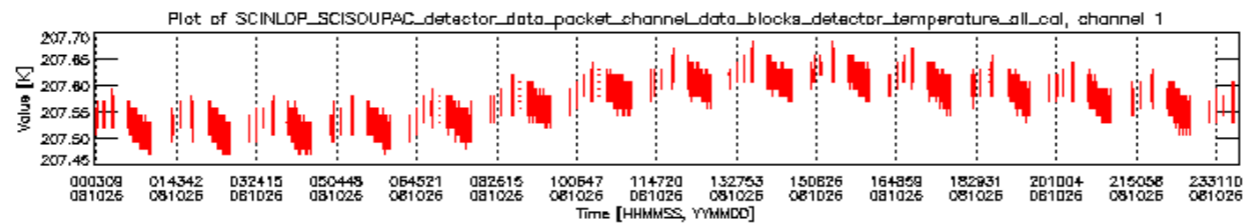


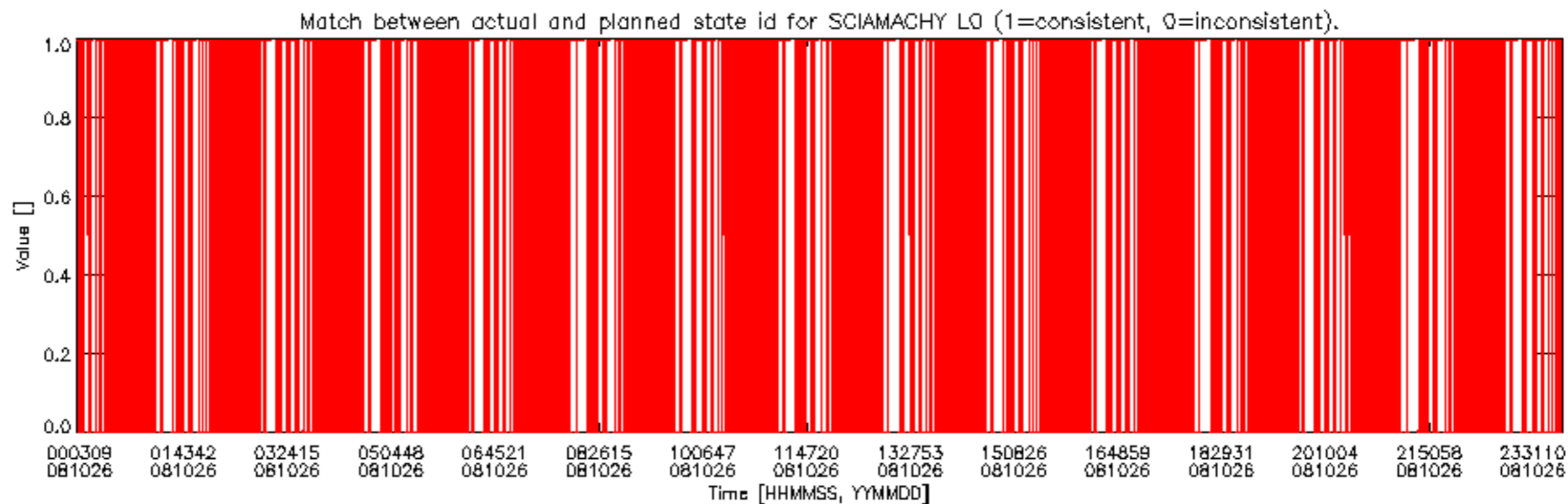
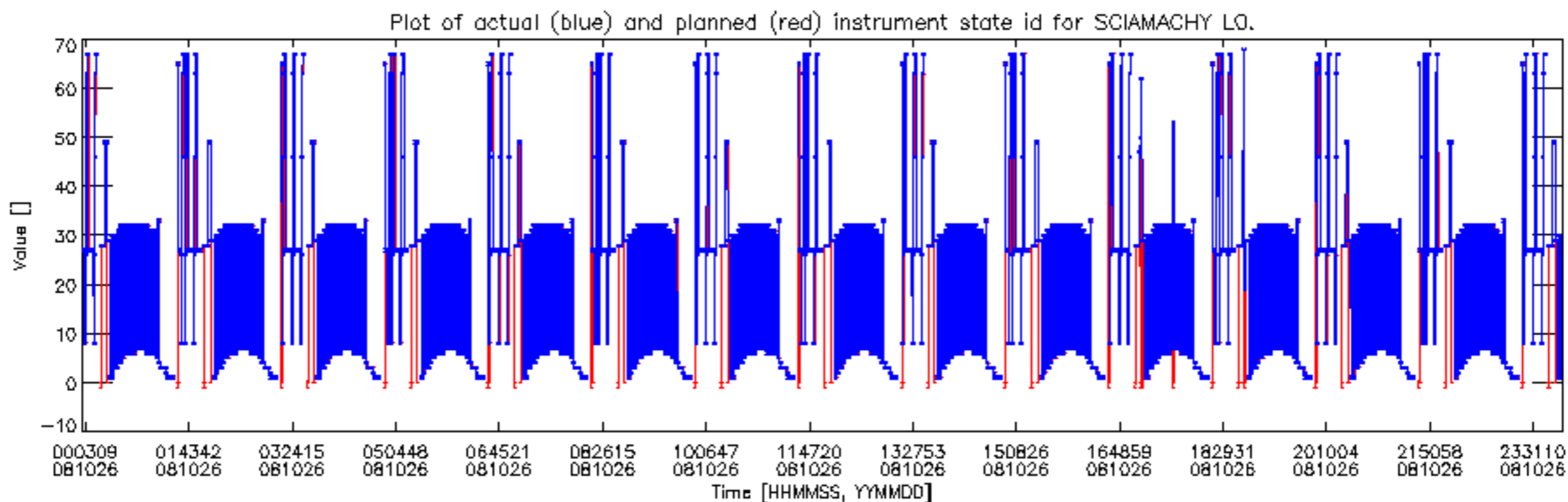




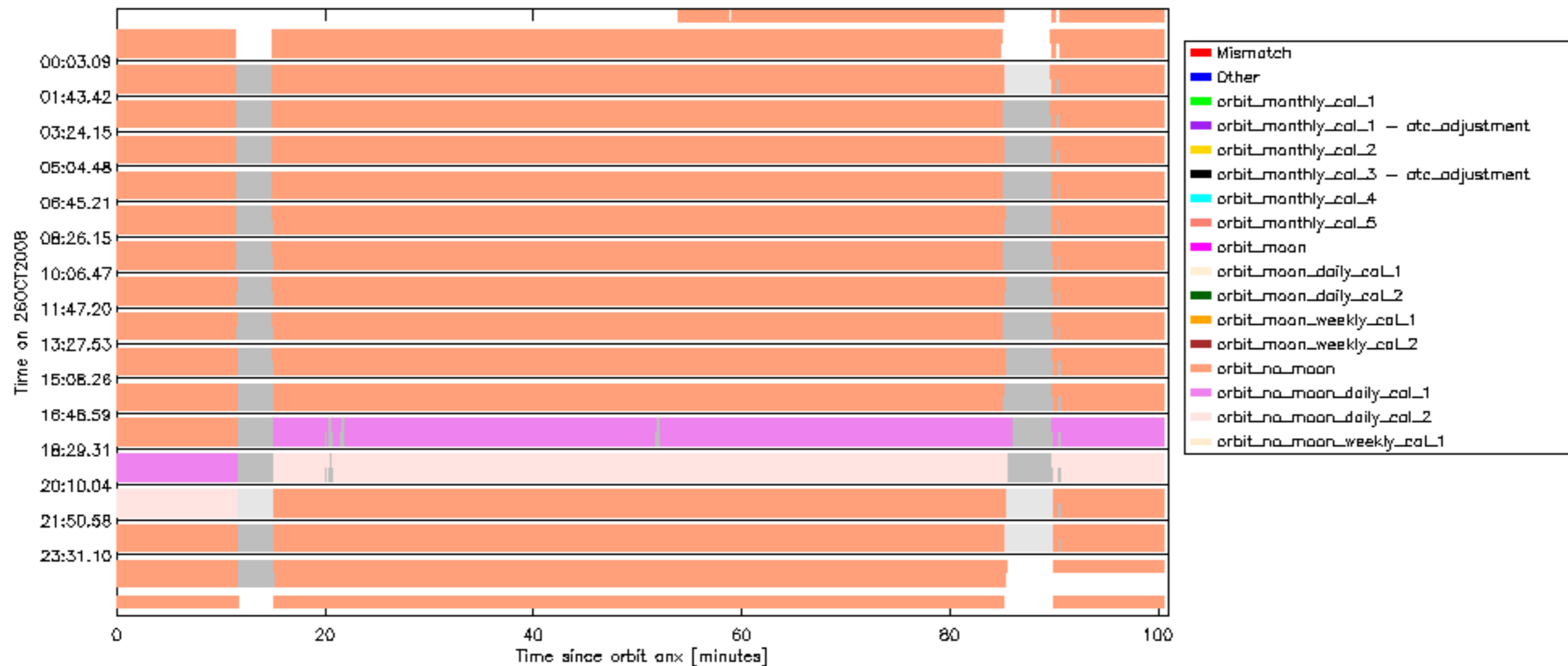


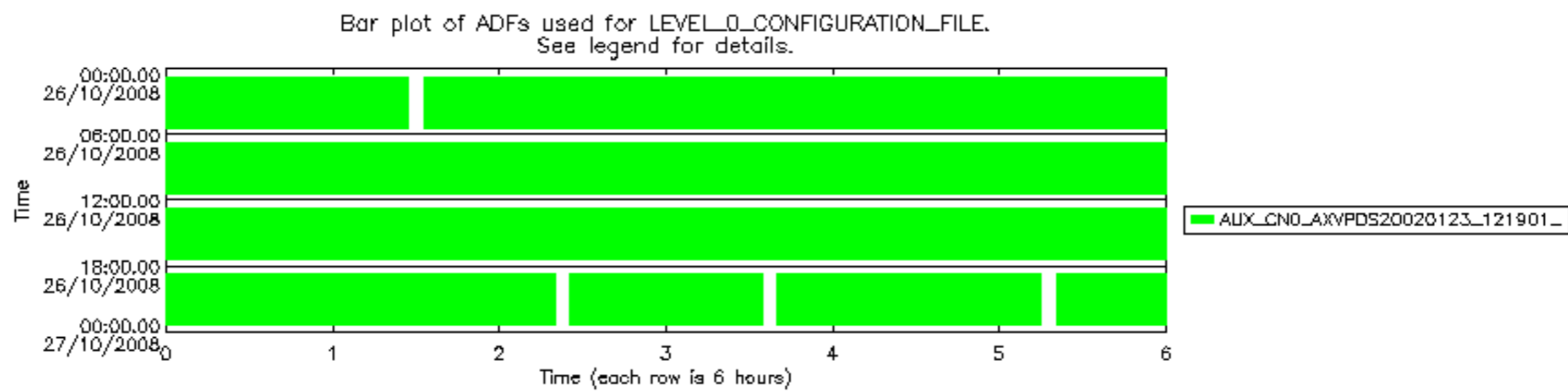






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 26OCT2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

