

## 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	24OCT2008 03:38:36
Data source version	KSPT_L0/4303-N
Processing scope for products	20OCT2008 00:00:00 to 21OCT2008 00:00:00
Start time of first product within scope	19OCT2008 23:40:12
Stop time of last product within scope	21OCT2008 00:49:18
Total number of level 0 products	15
Number of level 0 products with errors	0

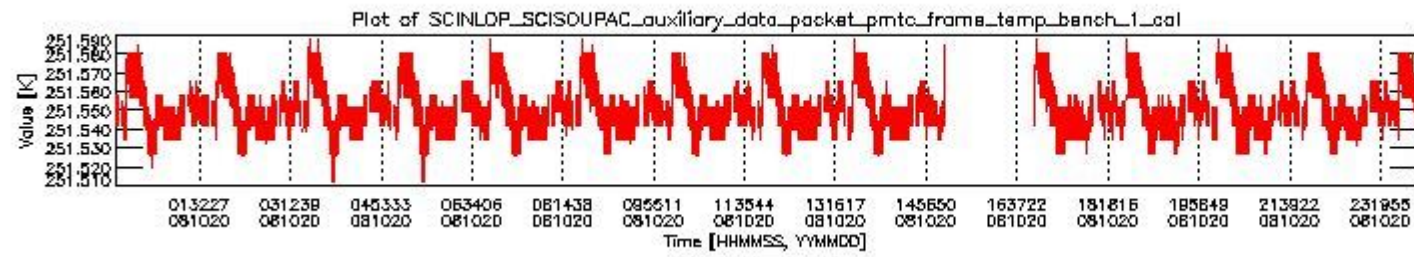
### 0.1.2 Summary per product

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

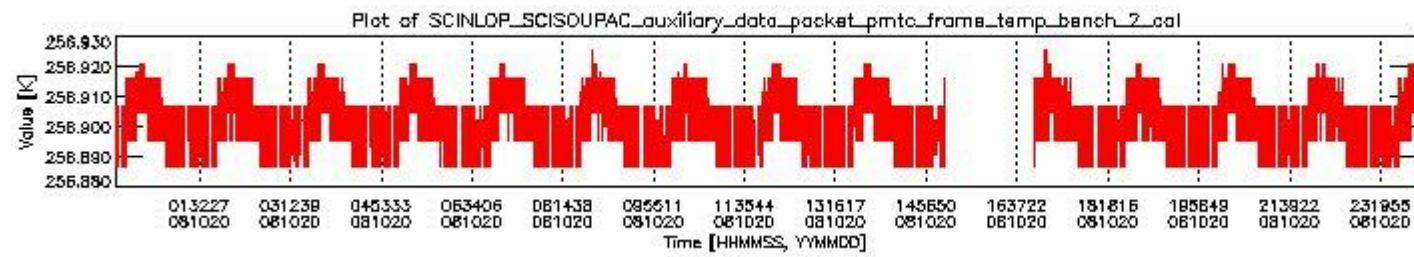
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDE20081019_234012_000056892073_00087_34710_7741.N1	19OCT2008 23:40:12	20OCT2008 01:15:01	0	0	0	0	0
1	SCI_NL__0PNPDE20081020_012048_000046172073_00088_34711_7742.N1	20OCT2008 01:20:48	20OCT2008 02:37:45	0	0	0	0	0
2	SCI_NL__0PNPDE20081020_023650_000057882073_00089_34712_7743.N1	20OCT2008 02:36:50	20OCT2008 04:13:17	0	0	0	0	0
3	SCI_NL__0PNPDE20081020_041221_000061482073_00090_34713_7744.N1	20OCT2008 04:12:21	20OCT2008 05:54:49	0	0	0	0	0
4	SCI_NL__0PNPDK20081020_055354_000041702073_00091_34714_9716.N1	20OCT2008 05:53:54	20OCT2008 07:03:24	0	0	0	0	0
5	SCI_NL__0PNPDK20081020_070228_000061482073_00092_34715_9717.N1	20OCT2008 07:02:28	20OCT2008 08:44:56	0	0	0	0	0
6	SCI_NL__0PNPDK20081020_084456_000058562073_00093_34716_9718.N1	20OCT2008 08:44:56	20OCT2008 10:22:32	0	0	0	0	0
7	SCI_NL__0PNPDK20081020_102027_000060922073_00094_34717_9719.N1	20OCT2008 10:20:27	20OCT2008 12:02:00	0	0	0	0	0
8	SCI_NL__0PNPDK20081020_115955_000061052073_00095_34718_9720.N1	20OCT2008 11:59:55	20OCT2008 13:41:40	0	0	0	0	0
9	SCI_NL__0PNPDK20081020_134044_000058002073_00096_34719_9721.N1	20OCT2008 13:40:44	20OCT2008 15:17:25	0	0	0	0	0
10	SCI_NL__0PNPDK20081020_165543_000060362073_00098_34721_9723.N1	20OCT2008 16:55:43	20OCT2008 18:36:20	0	0	0	0	0
11	SCI_NL__0PNPDK20081020_183620_000058122073_00099_34722_9724.N1	20OCT2008 18:36:20	20OCT2008 20:13:11	0	0	0	0	0
12	SCI_NL__0PNPDE20081020_201311_000041662073_00100_34723_7745.N1	20OCT2008 20:13:11	20OCT2008 21:22:38	0	0	0	0	0
13	SCI_NL__0PNPDE20081020_212805_000060802073_00100_34723_7746.N1	20OCT2008 21:28:05	20OCT2008 23:09:25	0	0	0	0	0
14	SCI_NL__0PNPDE20081020_230841_000060362073_00101_34724_7747.N1	20OCT2008 23:08:41	21OCT2008 00:49:18	0	0	0	0	0

## 0.2 Product Quality Indicators

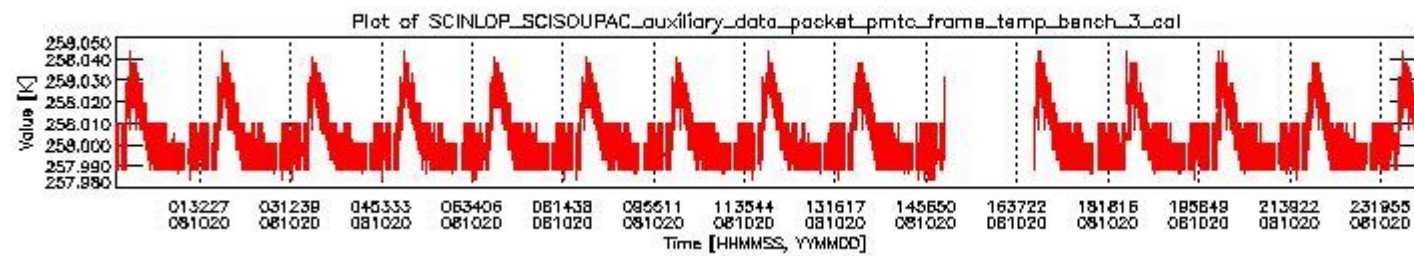
This section shows information about product quality, currently temperatures.



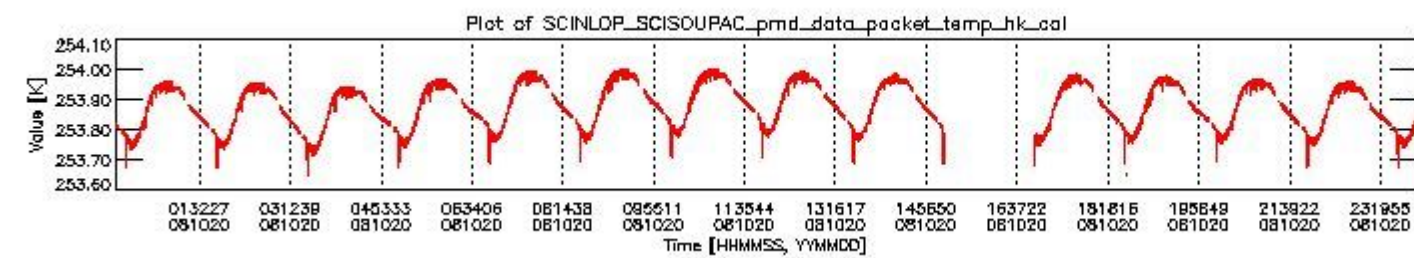
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081020\_0.PNG



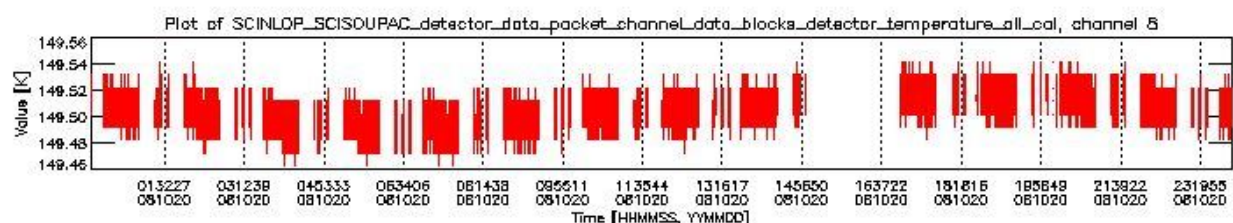
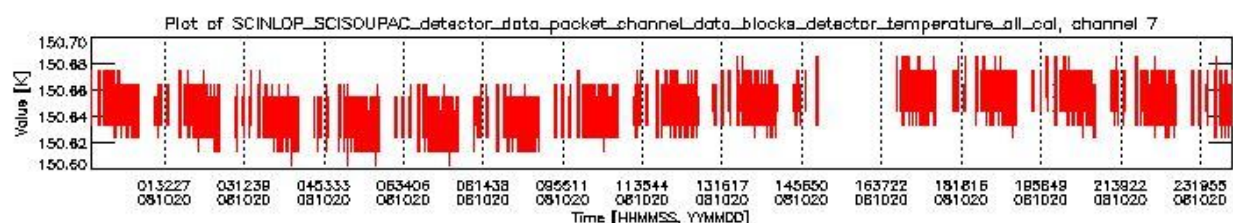
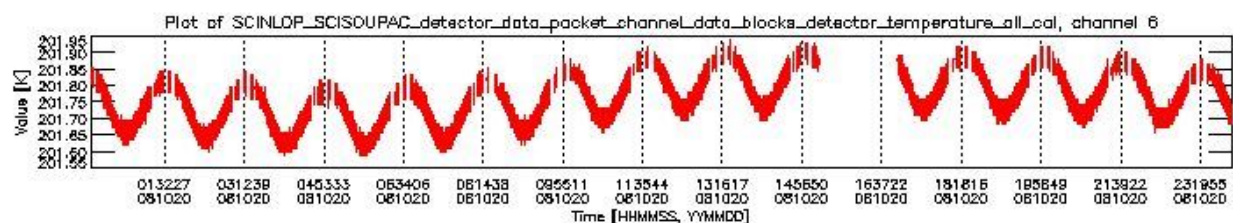
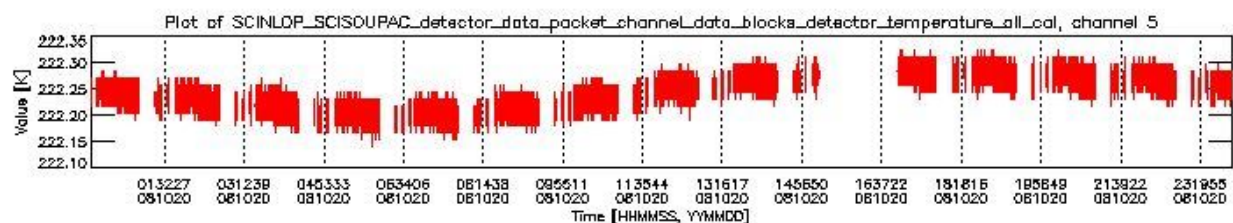
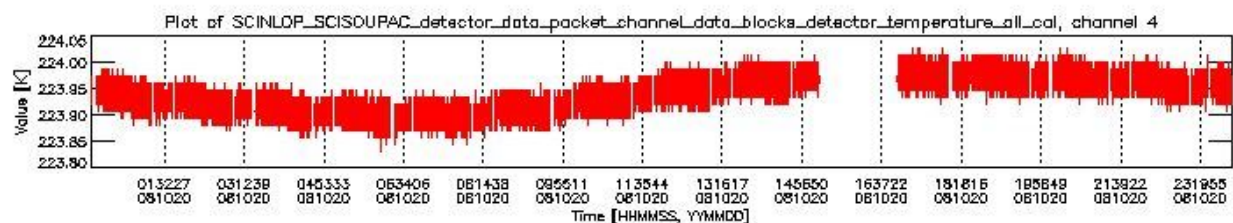
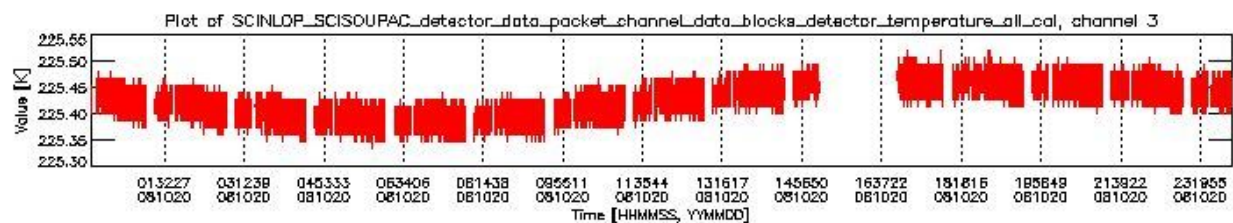
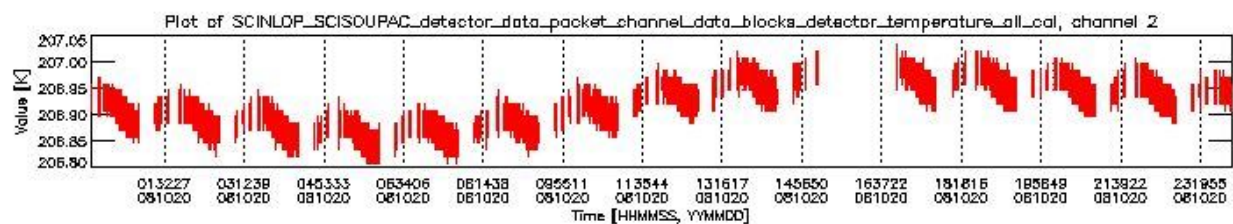
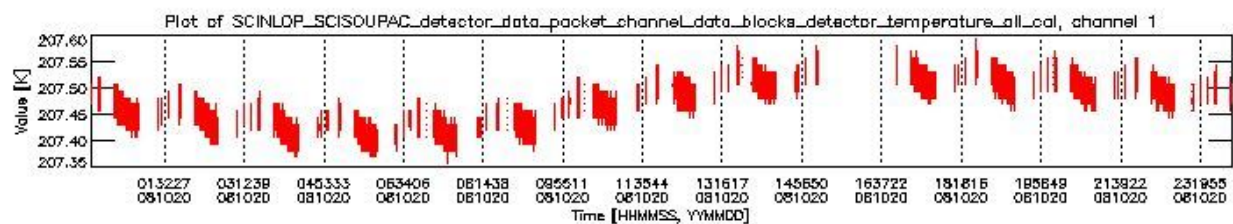
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081020\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081020\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081020\_3.PNG

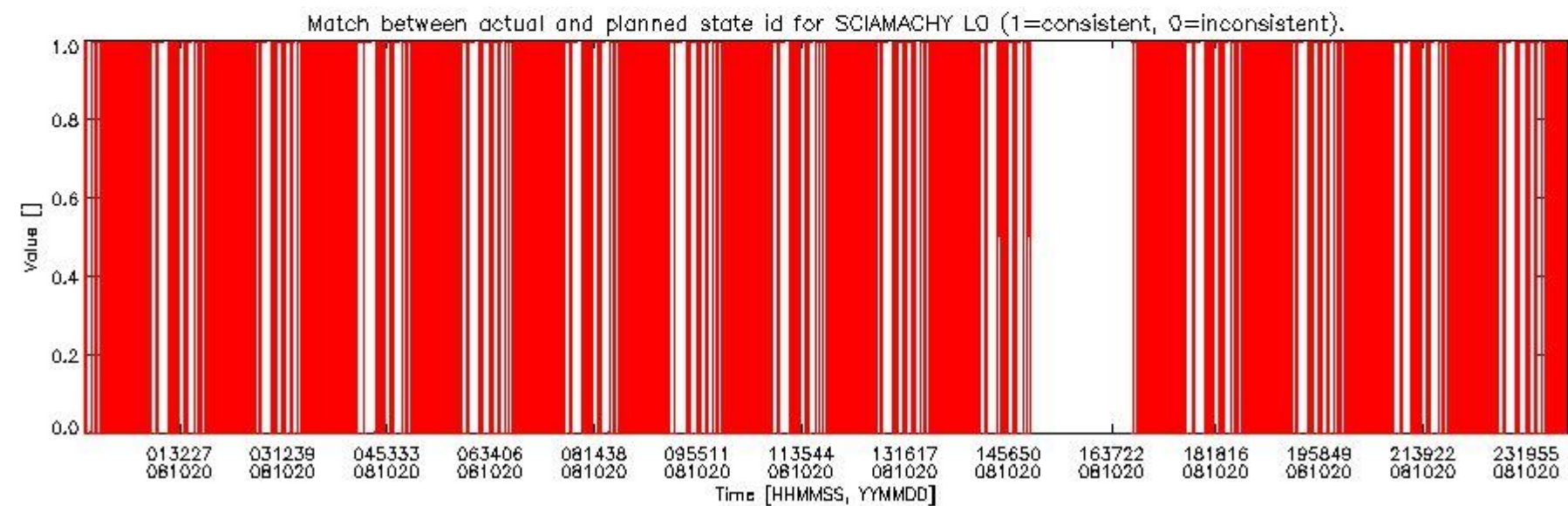
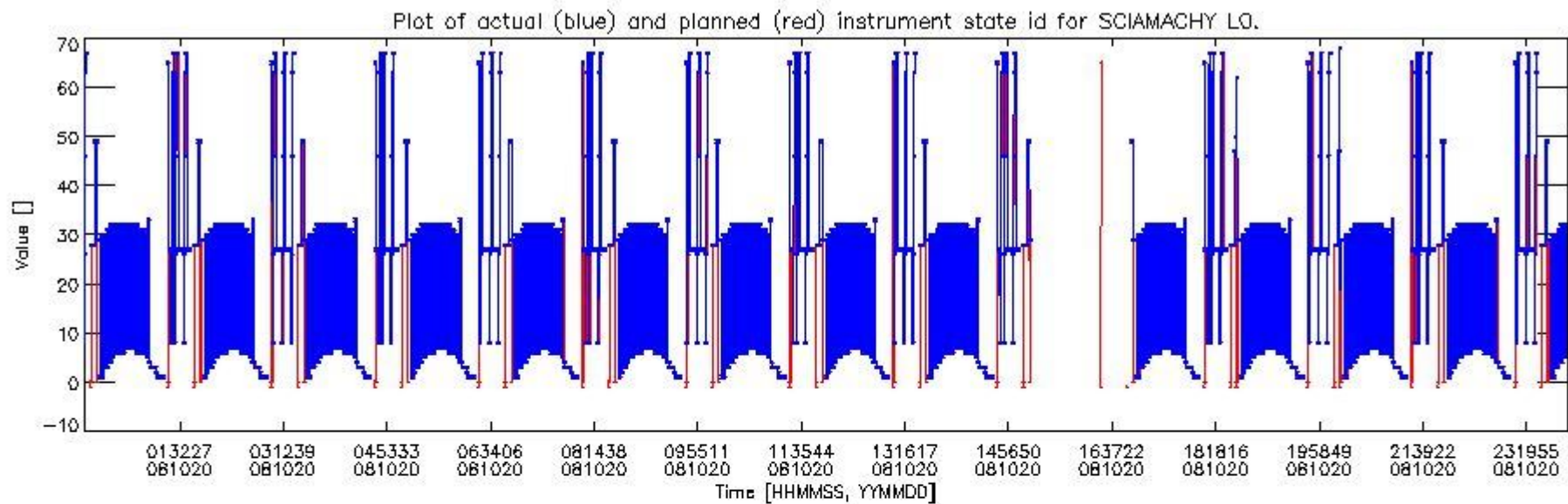


### 0.3 State monitoring

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: **43769**

#	Actual time	Actual value	Planned time	Planned value
0	20OCT2008 00:00:09.646055	46	20OCT2008 00:00:09.646055	26
1	20OCT2008 00:00:10.271077	46	20OCT2008 00:00:10.271077	26
2	20OCT2008 00:00:10.771054	46	20OCT2008 00:00:10.771054	26
3	20OCT2008 00:00:11.271071	46	20OCT2008 00:00:11.271071	26
4	20OCT2008 00:00:11.771049	46	20OCT2008 00:00:11.771049	26
5	20OCT2008 00:00:12.271066	46	20OCT2008 00:00:12.271066	26
6	20OCT2008 00:00:12.771083	46	20OCT2008 00:00:12.771083	26
7	20OCT2008 00:00:13.271061	46	20OCT2008 00:00:13.271061	26
8	20OCT2008 00:00:13.771078	46	20OCT2008 00:00:13.771078	26
9	20OCT2008 00:00:14.271055	46	20OCT2008 00:00:14.271055	26
10	20OCT2008 00:00:14.646068	46	20OCT2008 00:00:14.646068	26
11	20OCT2008 00:00:14.771073	46	20OCT2008 00:00:14.771073	26
12	20OCT2008 00:00:15.271050	46	20OCT2008 00:00:15.271050	26
13	20OCT2008 00:00:15.771067	46	20OCT2008 00:00:15.771067	26
14	20OCT2008 00:00:16.271085	46	20OCT2008 00:00:16.271085	26
15	20OCT2008 00:00:16.771062	46	20OCT2008 00:00:16.771062	26
16	20OCT2008 00:00:17.271079	46	20OCT2008 00:00:17.271079	26
17	20OCT2008 00:00:17.771056	46	20OCT2008 00:00:17.771056	26
18	20OCT2008 00:00:18.271074	46	20OCT2008 00:00:18.271074	26
19	20OCT2008 00:00:18.771051	46	20OCT2008 00:00:18.771051	26
	...	...	...	...

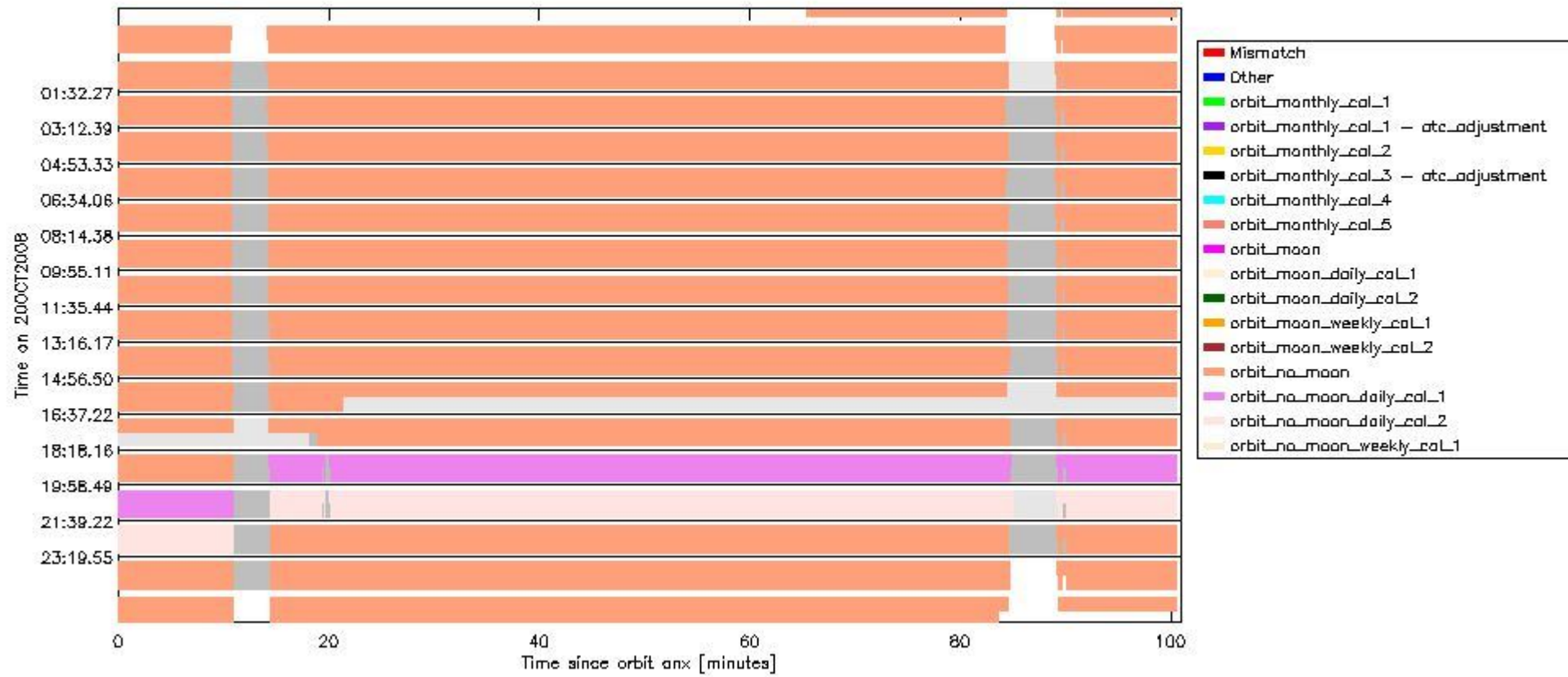


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081020\_5.PNG

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 20OCT2008.  
 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\_20081020\_6.PNG

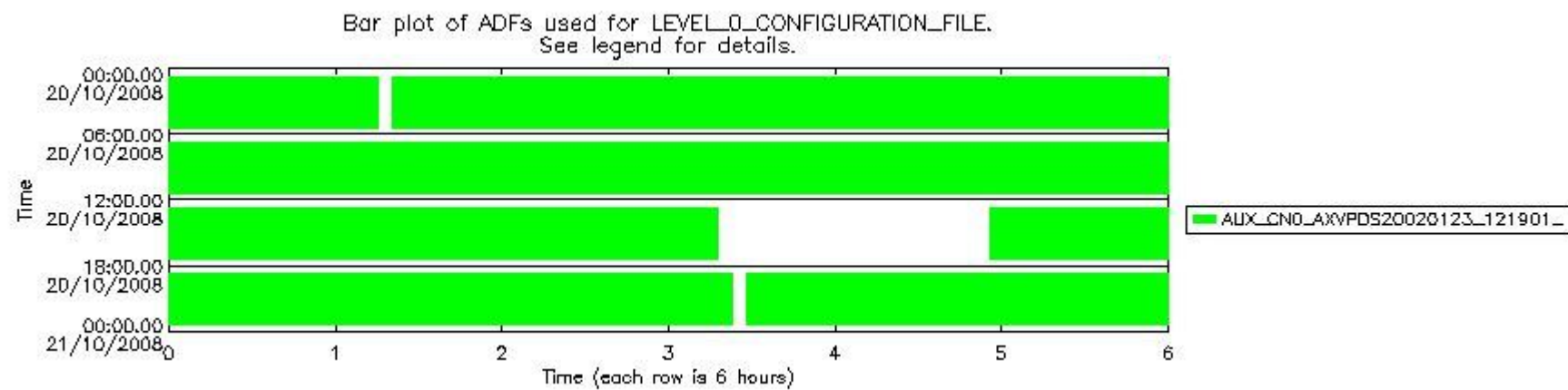
## 0.4 ADF monitoring

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

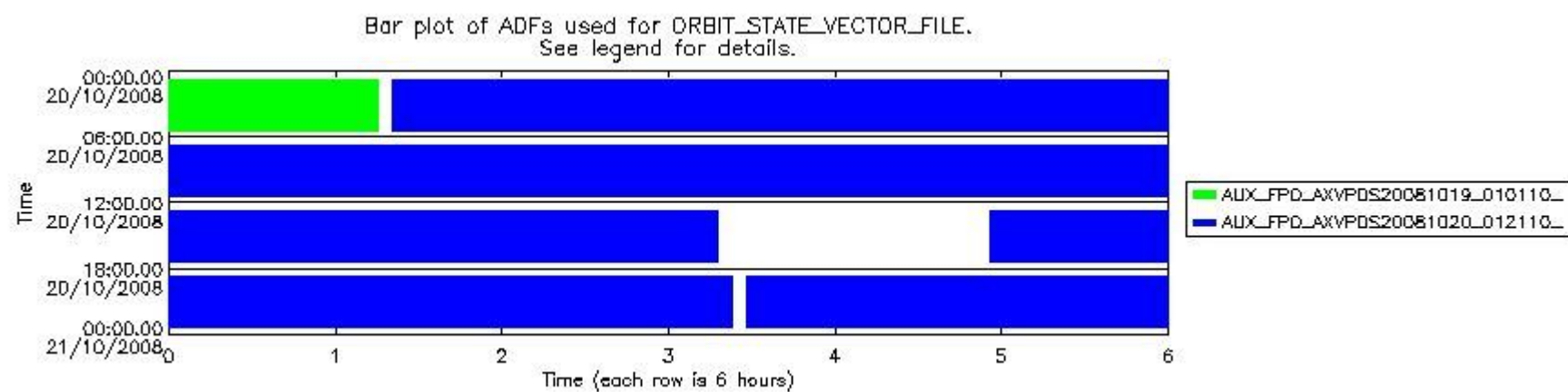
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

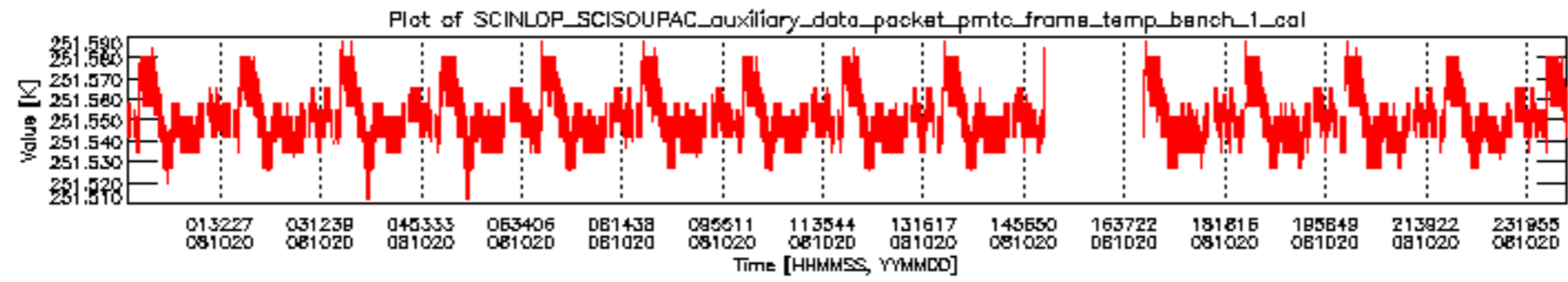
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20081019_010110_20081018_192125_20081028_204737
2	AUX_FPO_AXVPDS20081020_012110_20081019_184948_20081029_201600



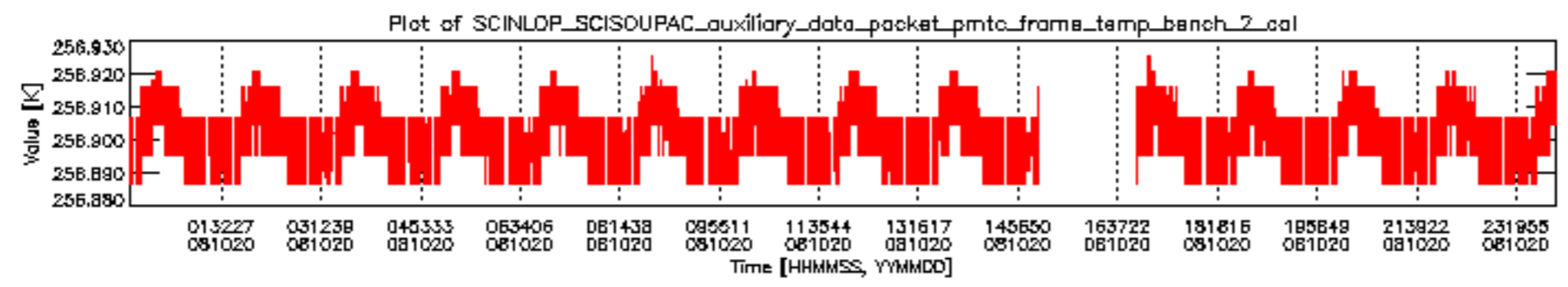
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081020\_7.PNG

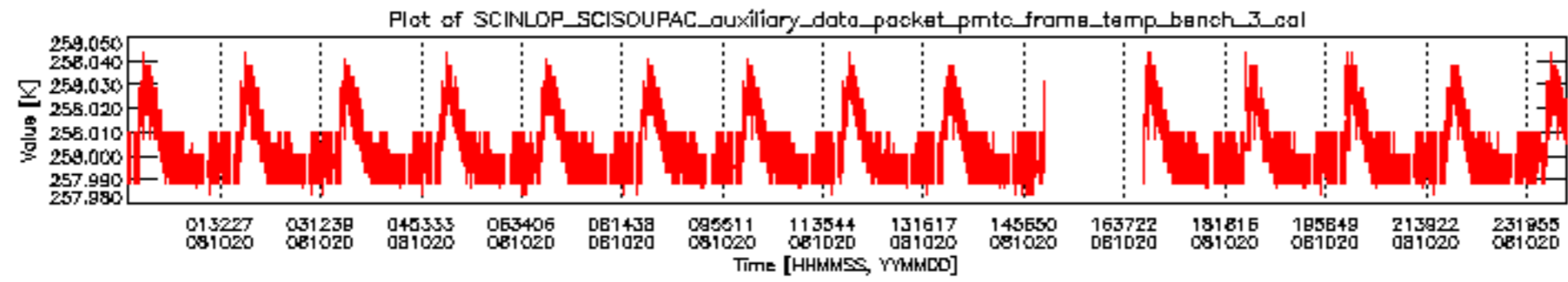


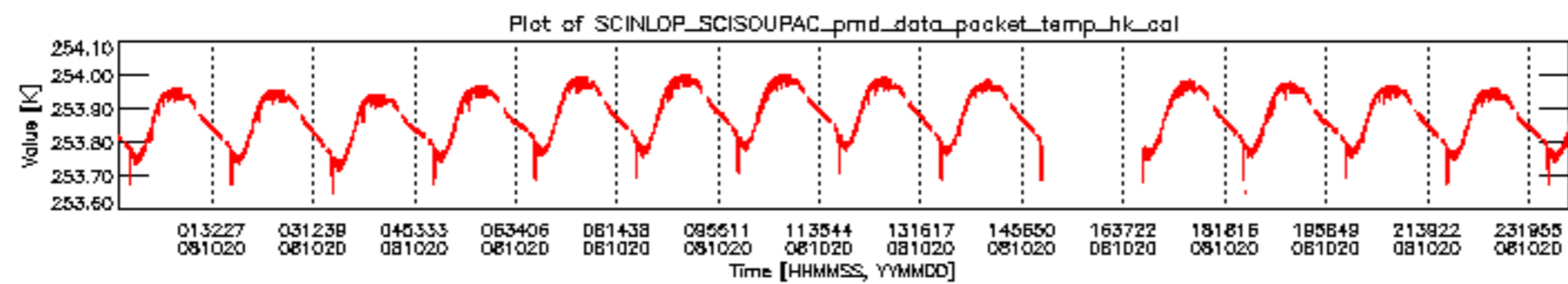
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081020\_8.PNG

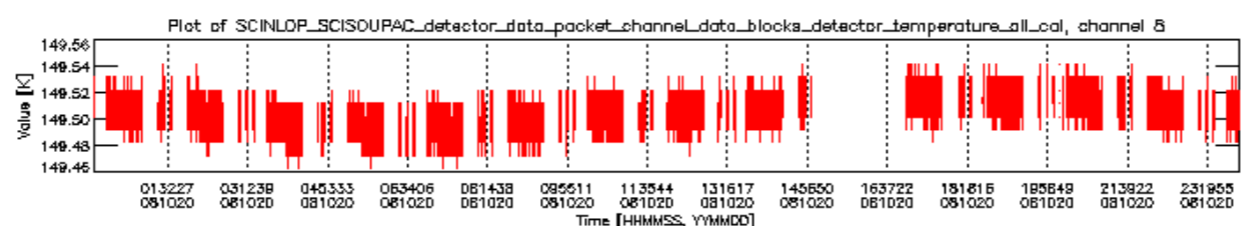
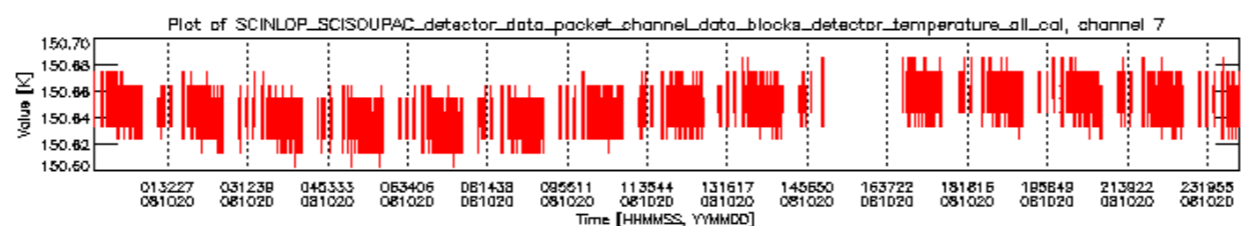
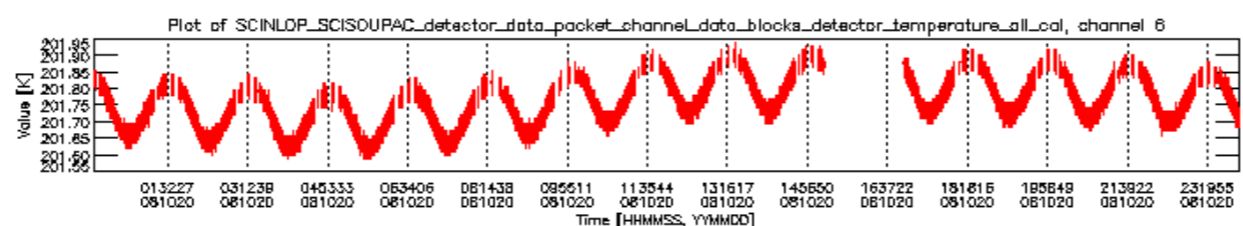
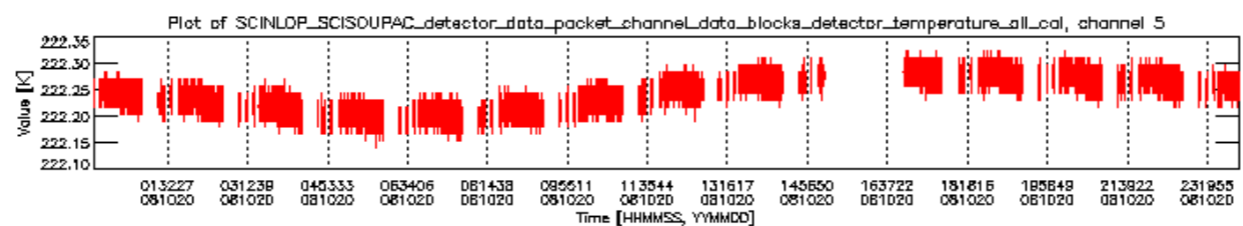
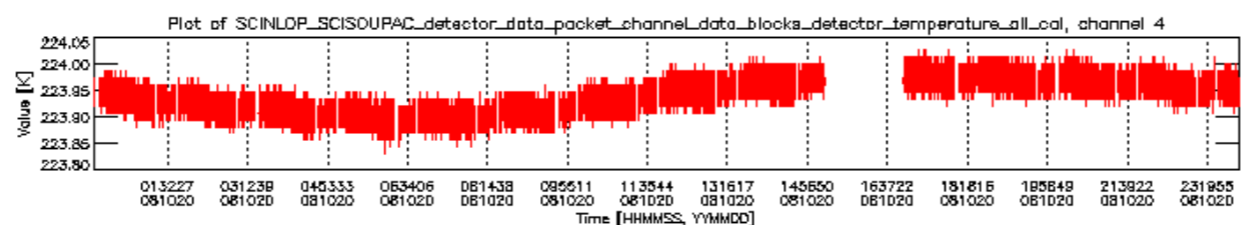
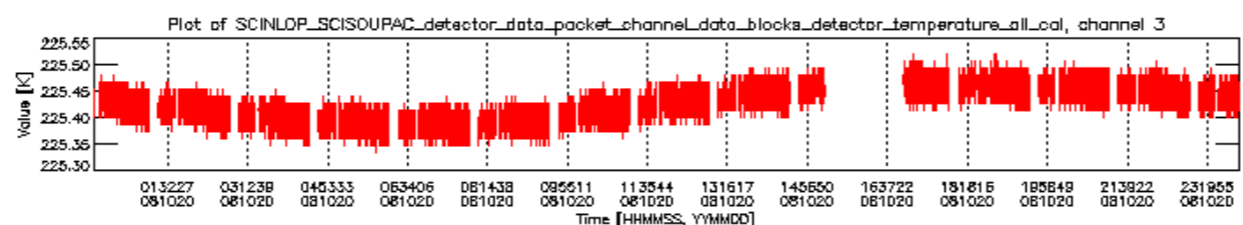
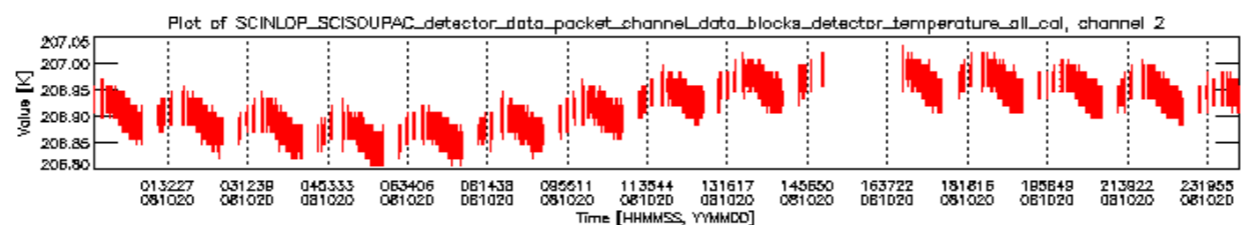
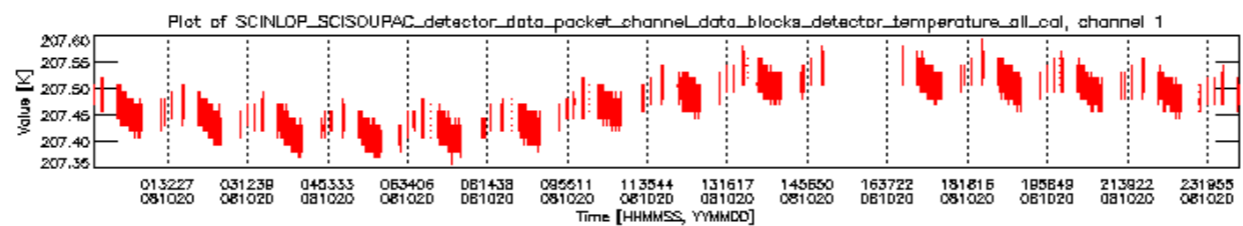


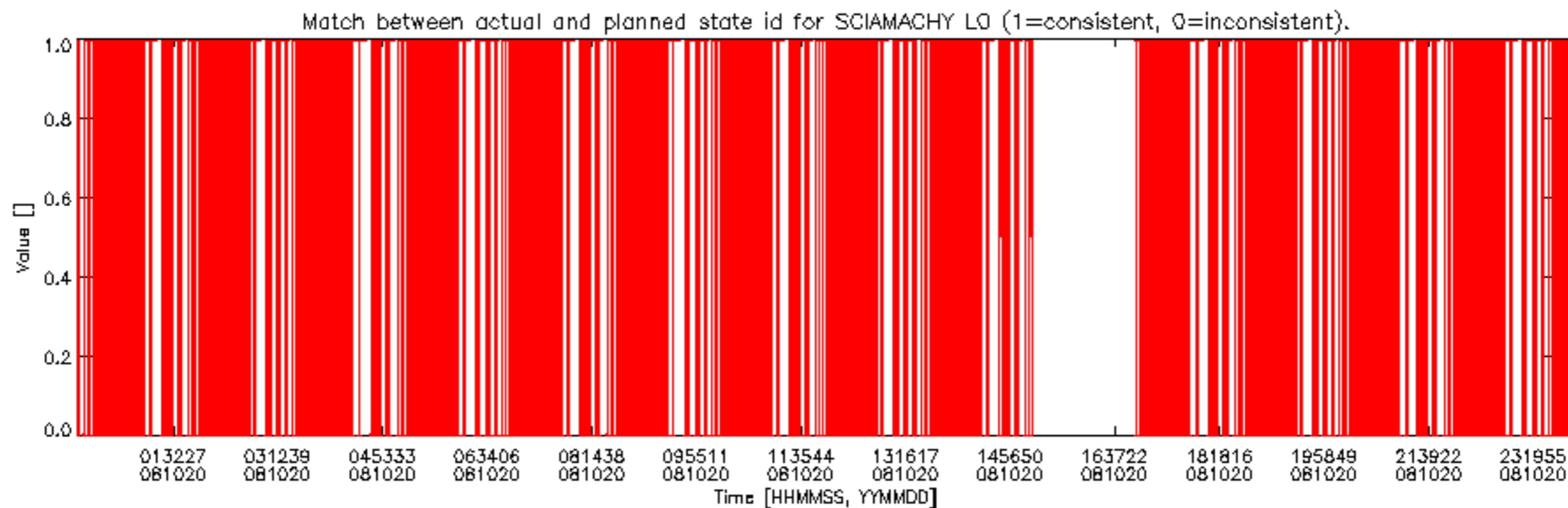
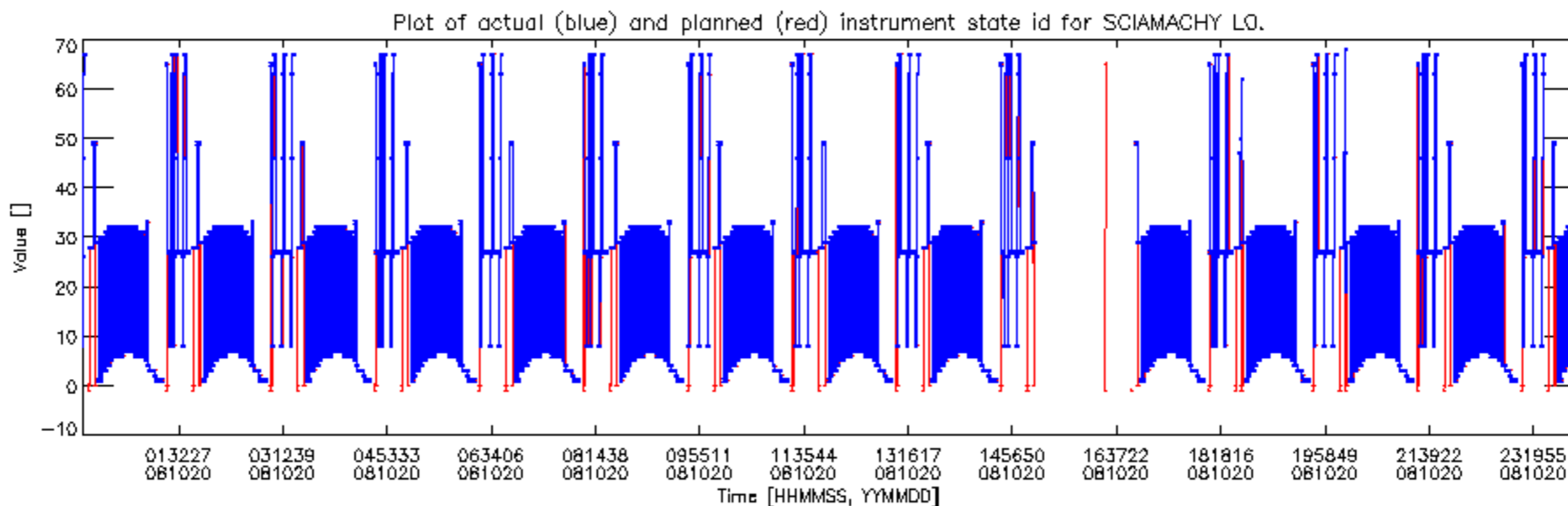




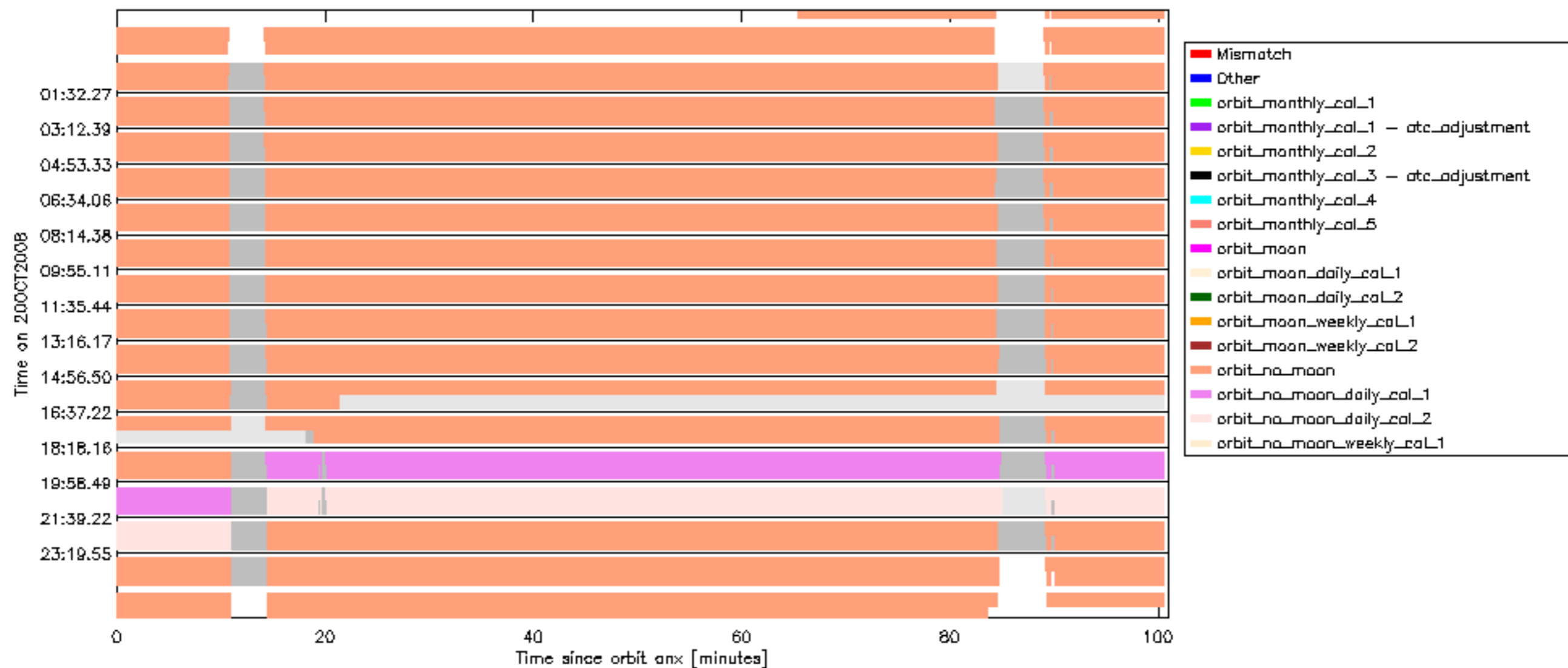


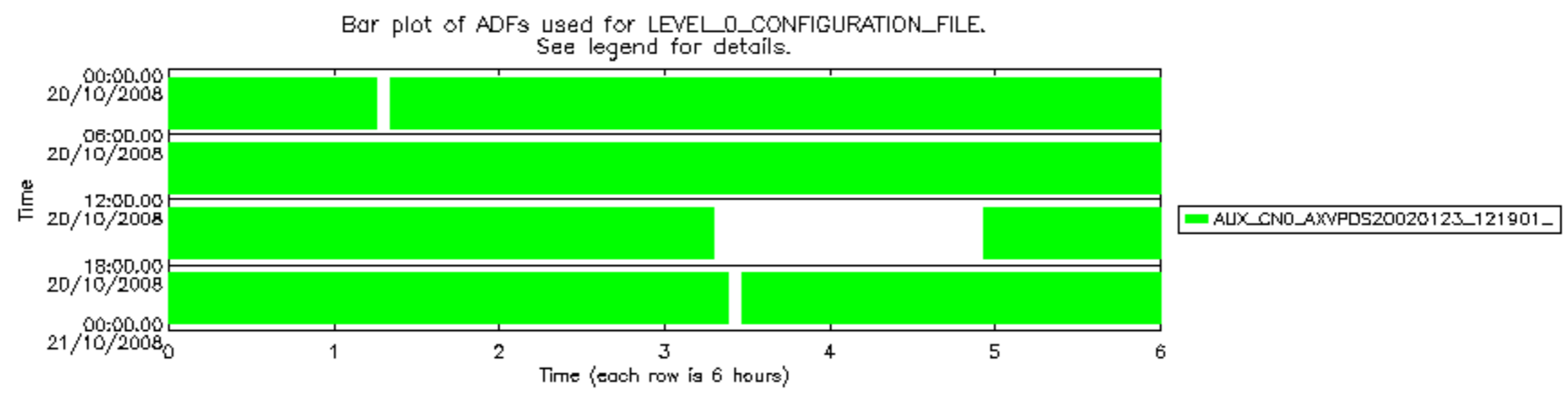






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 20OCT2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

