

## 0. SCIAMACHY Daily Report for level 0 products

### [0.1 General Info](#)

### [0.2 Product Quality Indicators](#)

### [0.3 State monitoring](#)

### [0.4 ADF monitoring](#)

## 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	25OCT2008 04:02:02
Data source version	KSPT_L0/4303-N
Processing scope for products	21OCT2008 00:00:00 to 22OCT2008 00:00:00
Start time of first product within scope	20OCT2008 23:08:41
Stop time of last product within scope	22OCT2008 00:12:00
Total number of level 0 products	16
Number of level 0 products with errors	2

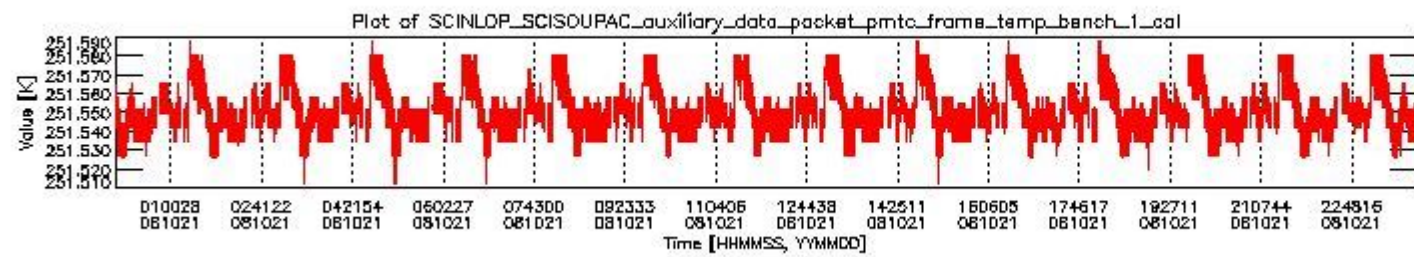
### 0.1.2 Summary per product

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

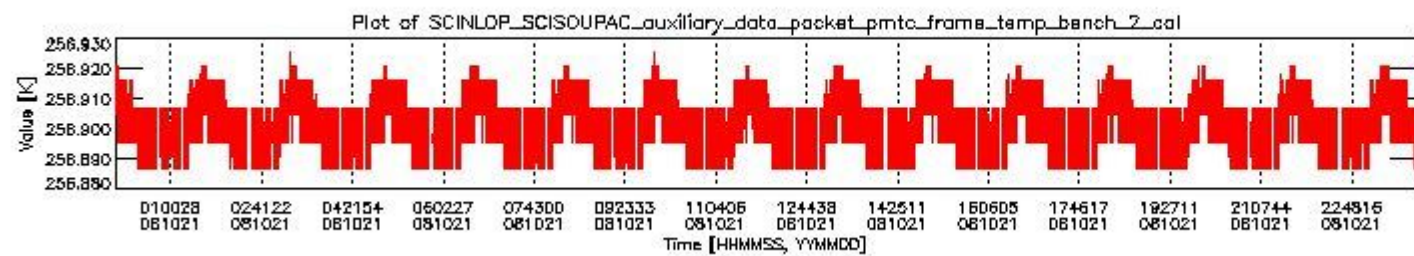
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081020_230841_000060362073_00101_34724_7747.N1	20OCT2008 23:08:41	21OCT2008 00:49:18	0	0	0	0	0
1	SCI_NL__OPNPDE20081021_004918_000056762073_00102_34725_7748.N1	21OCT2008 00:49:18	21OCT2008 02:23:54	0	0	0	0	0
2	SCI_NL__OPNPDE20081021_022354_000046172073_00103_34726_7749.N1	21OCT2008 02:23:54	21OCT2008 03:40:51	0	0	0	0	0
3	SCI_NL__OPNPDE20081021_033942_000061612073_00104_34727_7750.N1	21OCT2008 03:39:42	21OCT2008 05:22:23	0	0	0	0	0
4	SCI_NL__OPNPDE20081021_052223_000060362073_00105_34728_7751.N1	21OCT2008 05:22:23	21OCT2008 07:03:00	0	0	0	0	0
5	SCI_NL__OPNPDK20081021_070300_000039772073_00106_34729_9725.N1	21OCT2008 07:03:00	21OCT2008 08:09:17	0	0	0	0	0
6	SCI_NL__OPNPDK20081021_080712_000062292073_00107_34730_9726.N1	21OCT2008 08:07:12	21OCT2008 09:51:01	0	0	0	0	0
7	SCI_NL__OPNPDK20081021_094857_000061612073_00108_34731_9727.N1	21OCT2008 09:48:57	21OCT2008 11:31:38	0	0	0	0	0
8	SCI_NL__OPNPDK20081021_113029_000059802073_00109_34732_9728.N1	21OCT2008 11:30:29	21OCT2008 13:10:10	1	1	0	0	0
9	SCI_NL__OPNPDK20081021_131010_000059682073_00110_34733_9729.N1	21OCT2008 13:10:10	21OCT2008 14:49:38	0	0	0	0	0
10	SCI_NL__OPNPDK20081021_144746_000059252073_00111_34734_9730.N1	21OCT2008 14:47:46	21OCT2008 16:26:31	0	0	0	0	0
11	SCI_NL__OPNPDK20081021_162413_000060362073_00112_34735_9731.N1	21OCT2008 16:24:13	21OCT2008 18:04:49	1	1	0	0	0
12	SCI_NL__OPNPDK20081021_180352_000059252073_00113_34736_9732.N1	21OCT2008 18:03:52	21OCT2008 19:42:37	0	0	0	0	0
13	SCI_NL__OPNPDE20081021_194141_000041662073_00114_34737_7752.N1	21OCT2008 19:41:41	21OCT2008 20:51:07	0	0	0	0	0
14	SCI_NL__OPNPDE20081021_204959_000060722073_00114_34737_7753.N1	21OCT2008 20:49:59	21OCT2008 22:31:11	0	0	0	0	0
15	SCI_NL__OPNPDE20081021_223711_000056892073_00115_34738_7754.N1	21OCT2008 22:37:11	22OCT2008 00:12:00	0	0	0	0	0

## 0.2 Product Quality Indicators

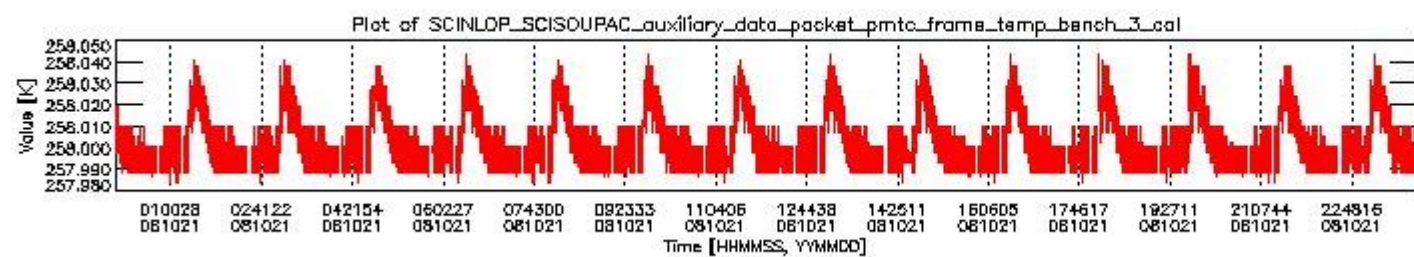
This section shows information about product quality, currently temperatures.



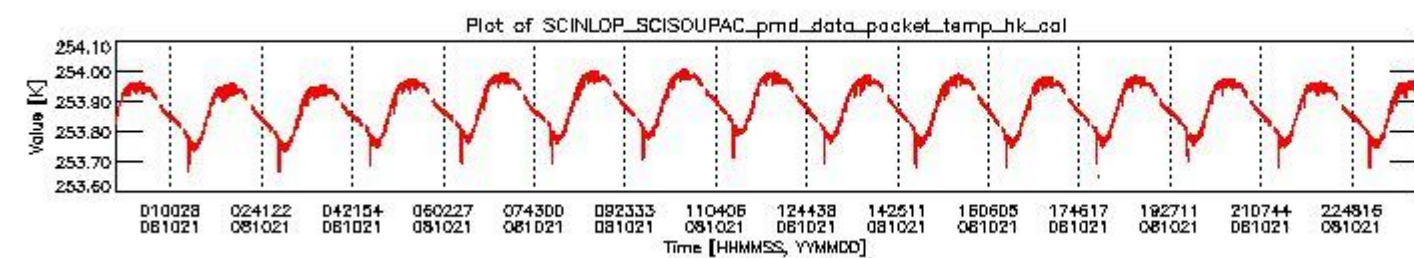
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081021\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081021\_1.PNG

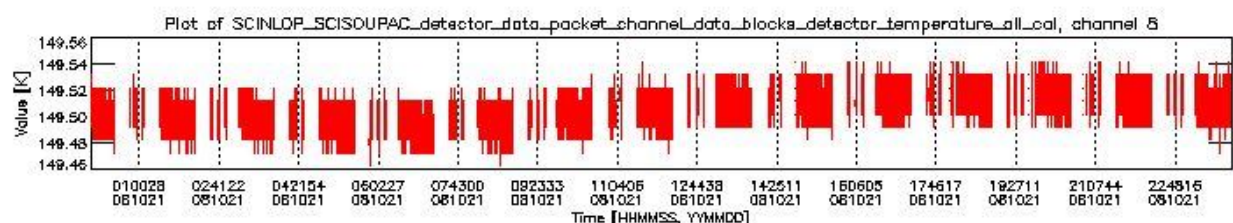
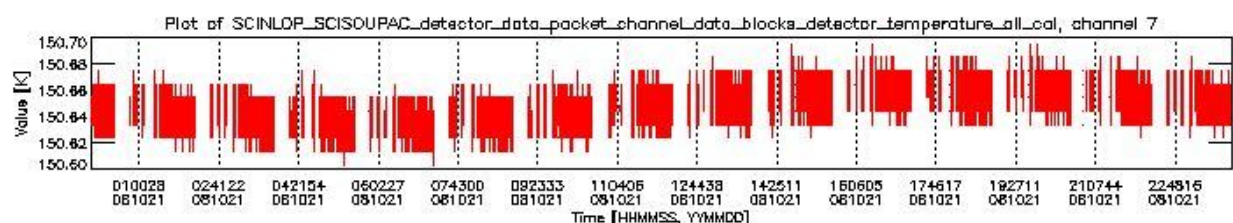
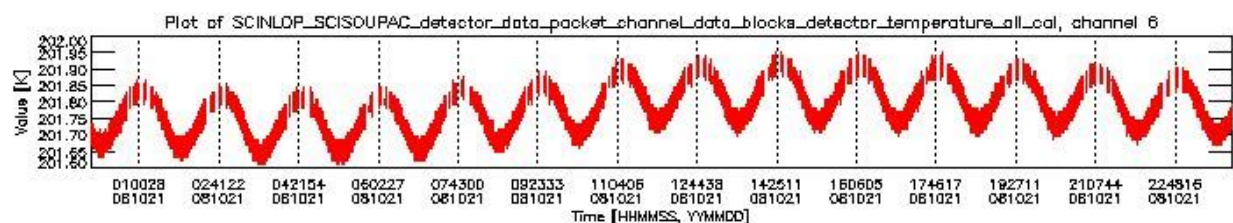
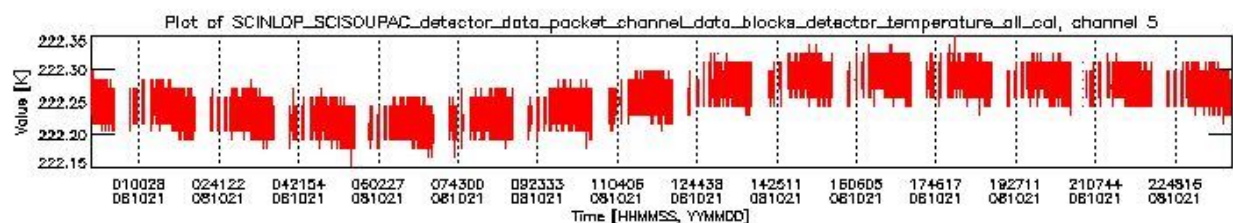
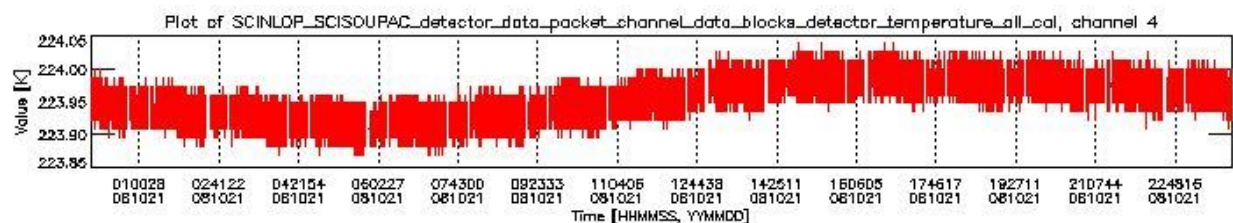
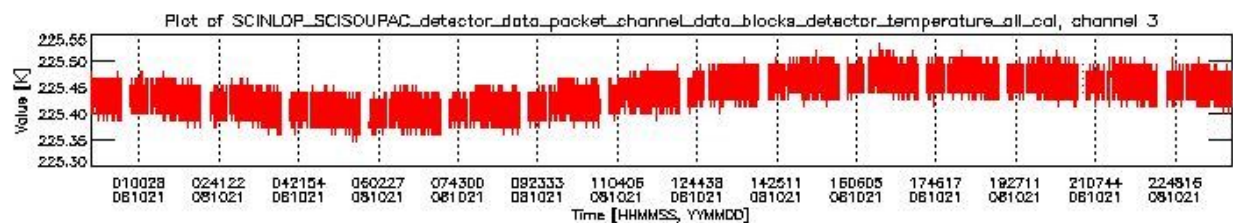
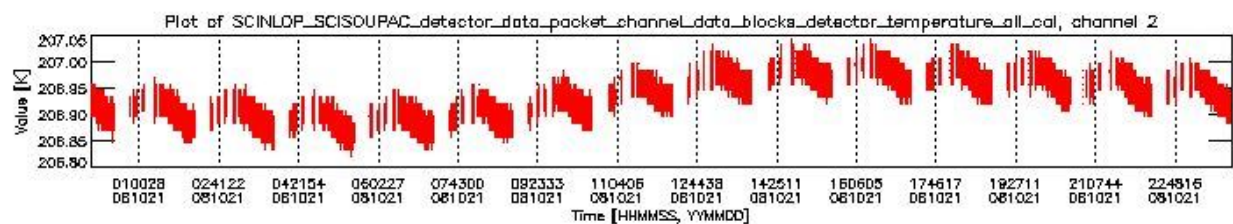
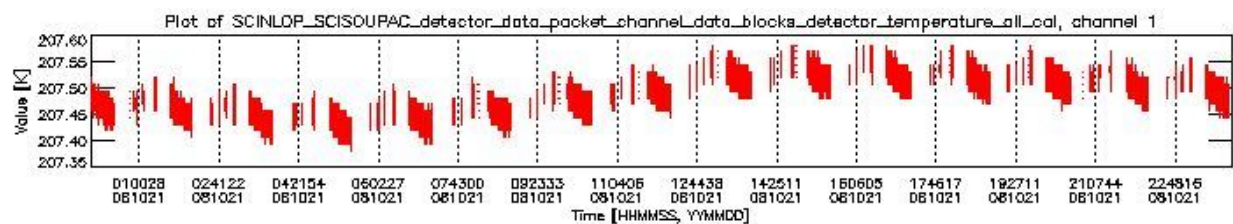


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081021\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081021\_3.PNG



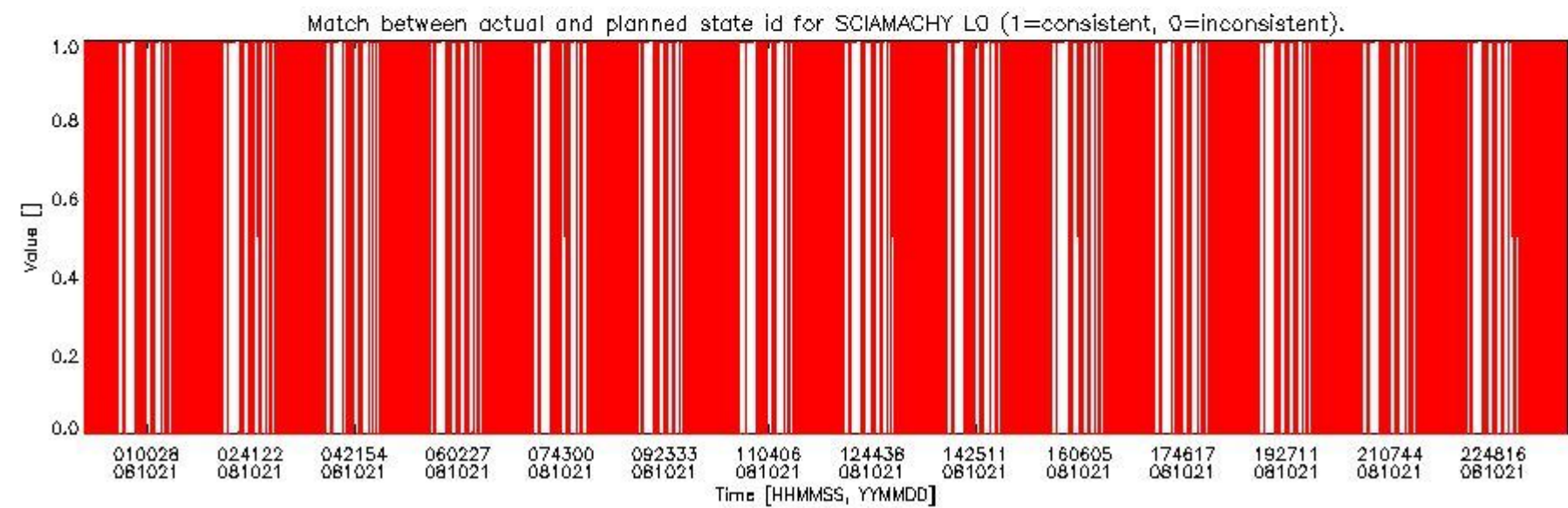
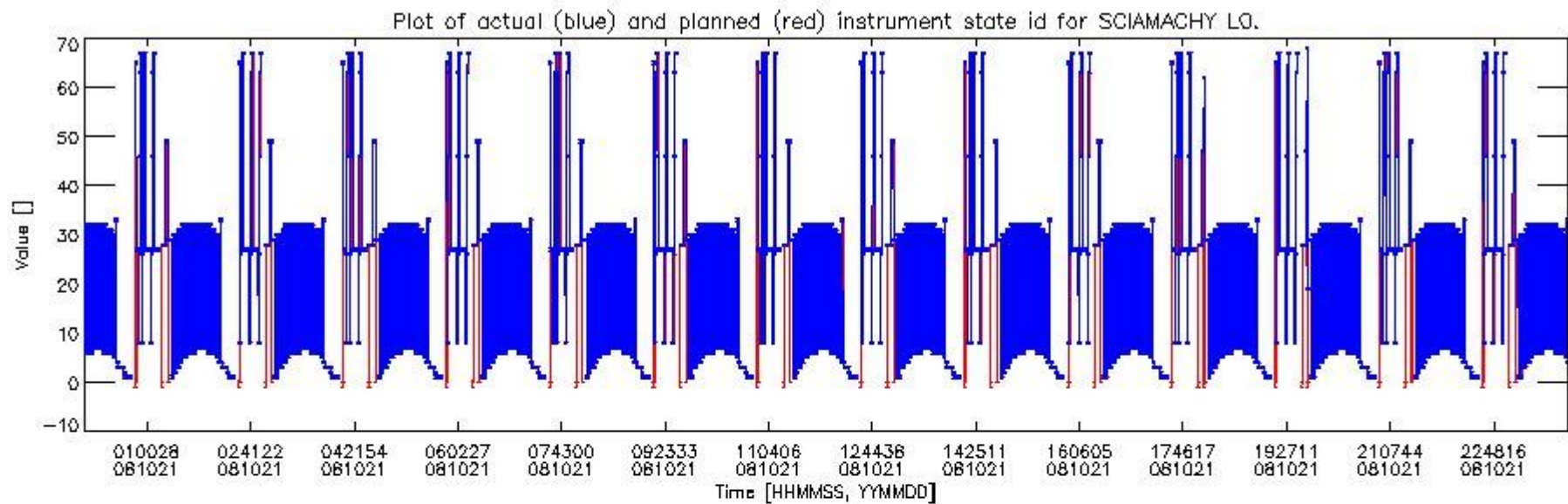


### 0.3 State monitoring

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: **46749**

#	Actual time	Actual value	Planned time	Planned value
0	21OCT2008 00:00:00.027399	6	21OCT2008 00:00:00.027399	32
1	21OCT2008 00:00:00.152403	6	21OCT2008 00:00:00.152403	32
2	21OCT2008 00:00:58.707105	32	21OCT2008 00:00:58.707105	6
3	21OCT2008 00:00:59.332086	32	21OCT2008 00:00:59.332086	6
4	21OCT2008 00:00:59.707099	32	21OCT2008 00:00:59.707099	6
5	21OCT2008 00:01:00.082112	32	21OCT2008 00:01:00.082112	6
6	21OCT2008 00:01:00.644612	32	21OCT2008 00:01:00.644612	6
7	21OCT2008 00:01:01.019585	32	21OCT2008 00:01:01.019585	6
8	21OCT2008 00:01:01.394598	32	21OCT2008 00:01:01.394598	6
9	21OCT2008 00:01:01.769611	32	21OCT2008 00:01:01.769611	6
10	21OCT2008 00:01:02.332110	32	21OCT2008 00:01:02.332110	6
11	21OCT2008 00:01:02.707083	32	21OCT2008 00:01:02.707083	6
12	21OCT2008 00:01:03.082096	32	21OCT2008 00:01:03.082096	6
13	21OCT2008 00:01:03.457109	32	21OCT2008 00:01:03.457109	6
14	21OCT2008 00:01:03.707118	32	21OCT2008 00:01:03.707118	6
15	21OCT2008 00:01:04.019608	32	21OCT2008 00:01:04.019608	6
16	21OCT2008 00:01:04.394581	32	21OCT2008 00:01:04.394581	6
17	21OCT2008 00:01:04.769594	32	21OCT2008 00:01:04.769594	6
18	21OCT2008 00:01:05.144607	32	21OCT2008 00:01:05.144607	6
19	21OCT2008 00:01:05.707107	32	21OCT2008 00:01:05.707107	6
	...	...	...	...



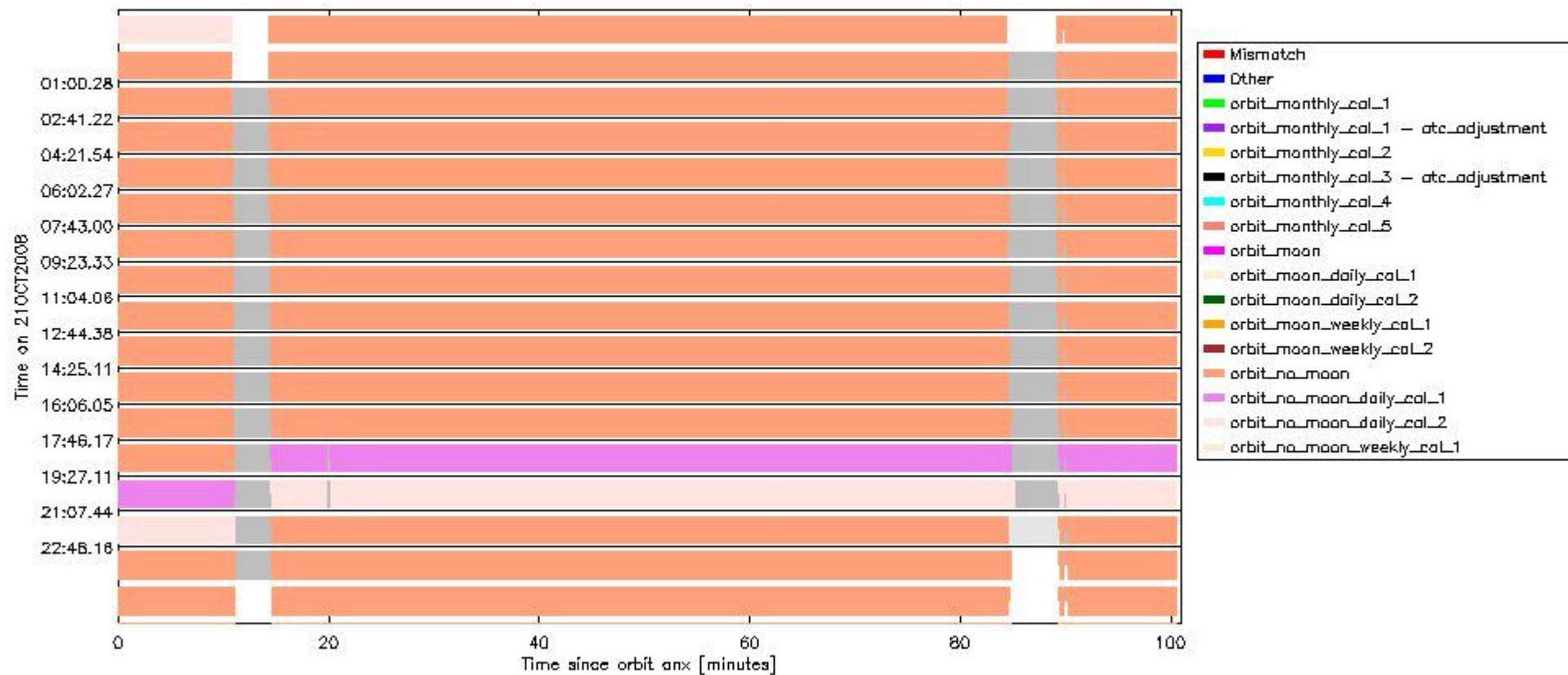
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081021\_5.PNG

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 21OCT2008.  
 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\_20081021\_6.PNG

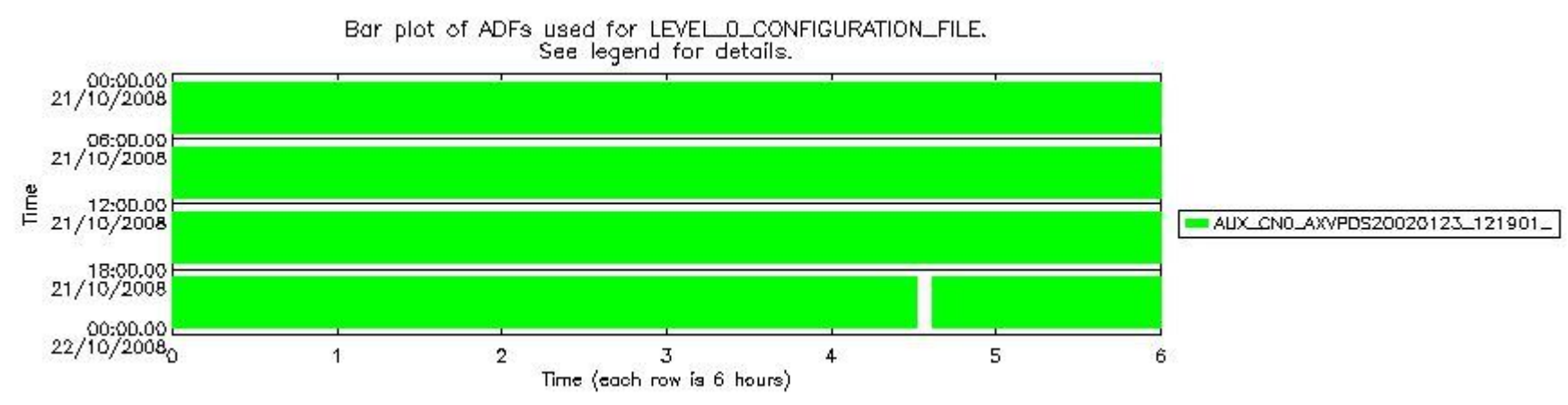
## 0.4 ADF monitoring

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

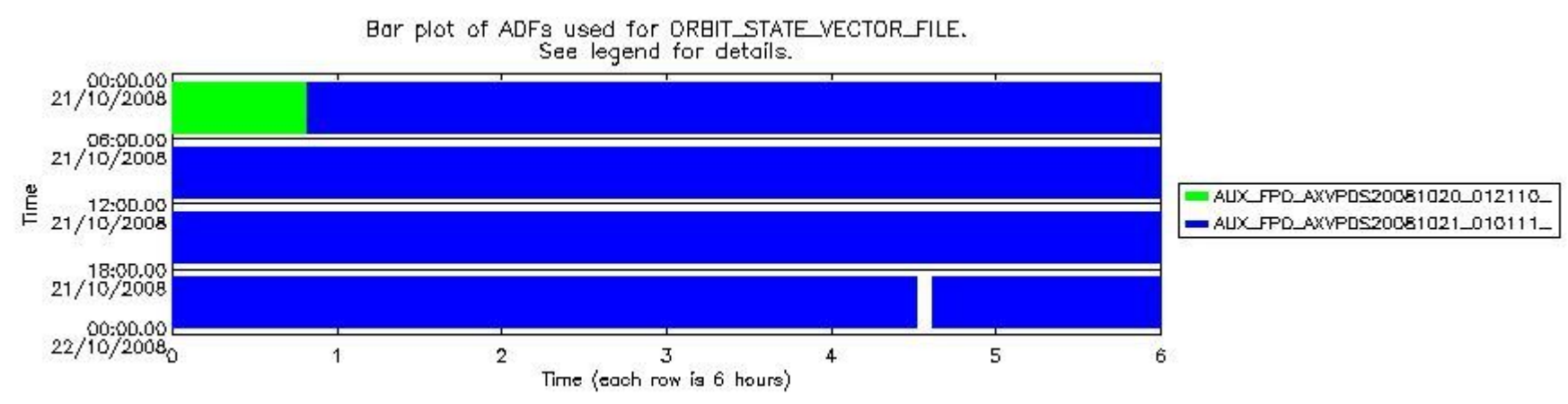
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

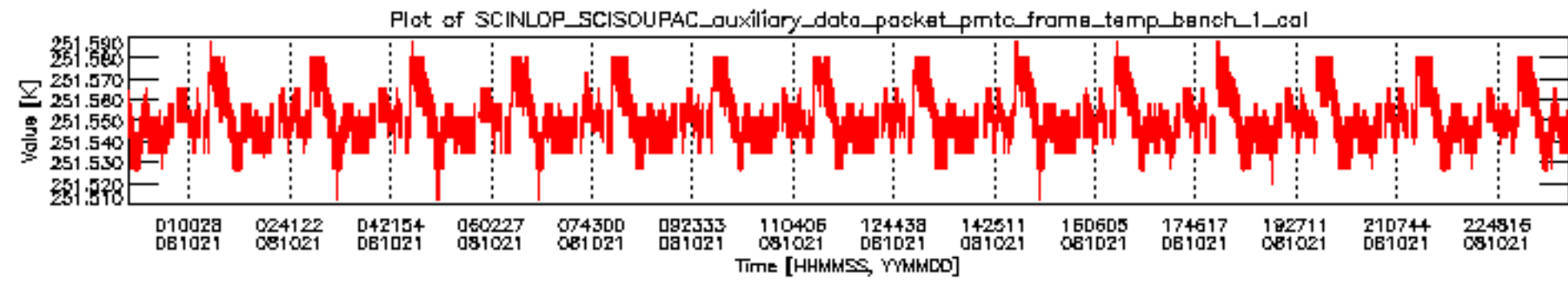
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20081020_012110_20081019_184948_20081029_201600
2	AUX_FPO_AXVPDS20081021_010111_20081020_195846_20081030_212459



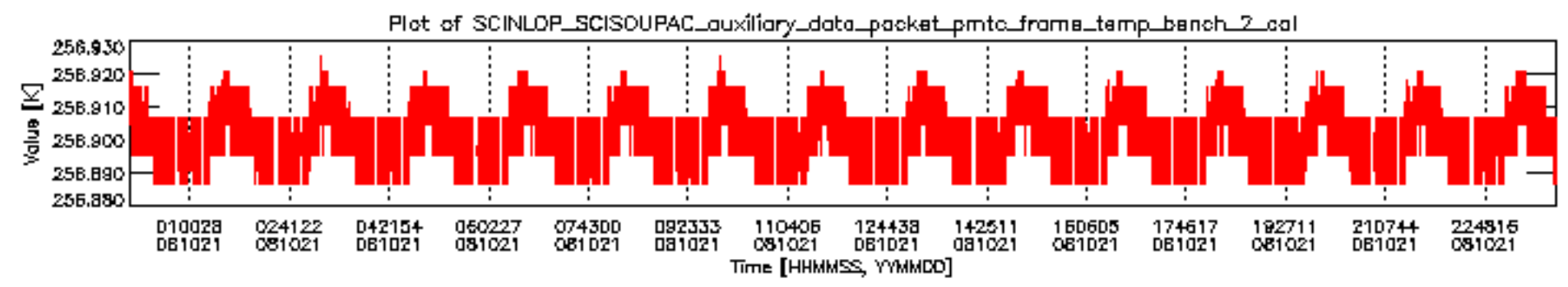
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081021\_7.PNG

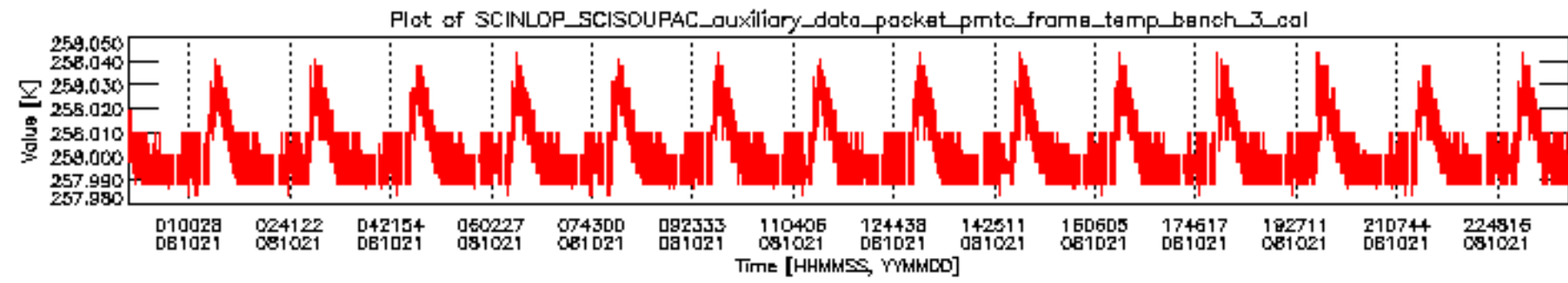


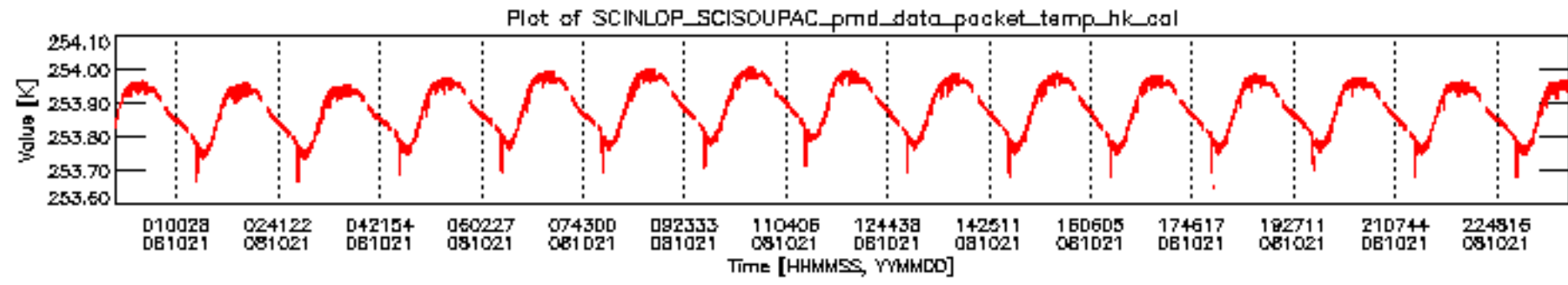
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081021\_8.PNG

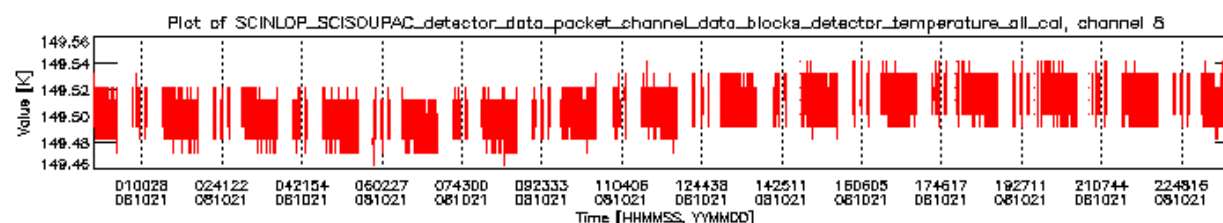
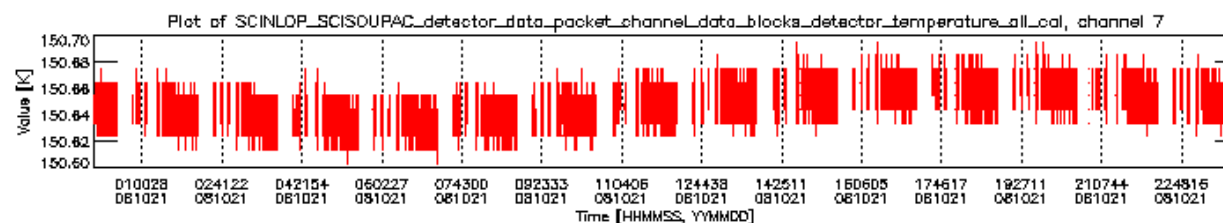
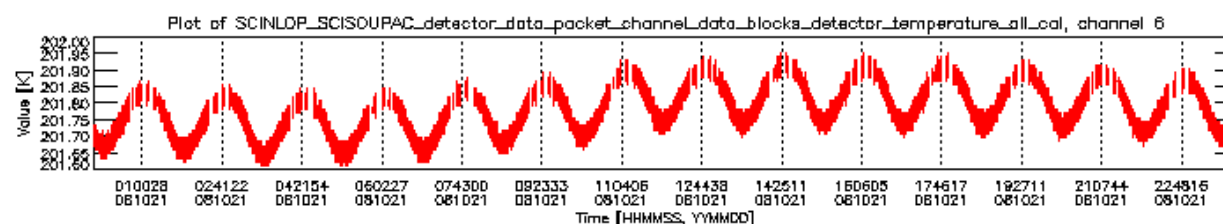
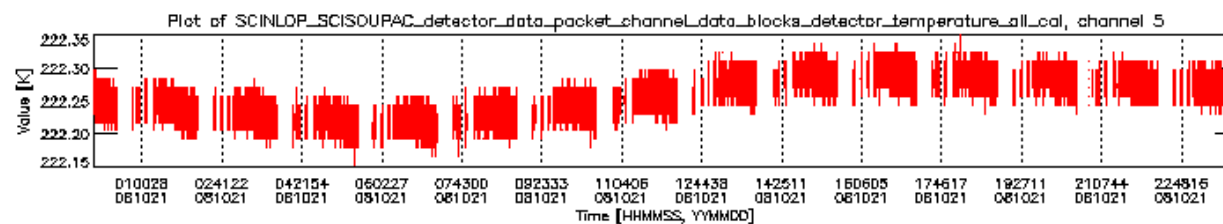
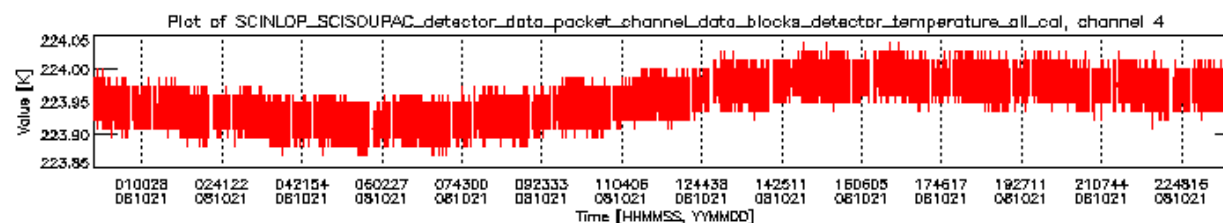
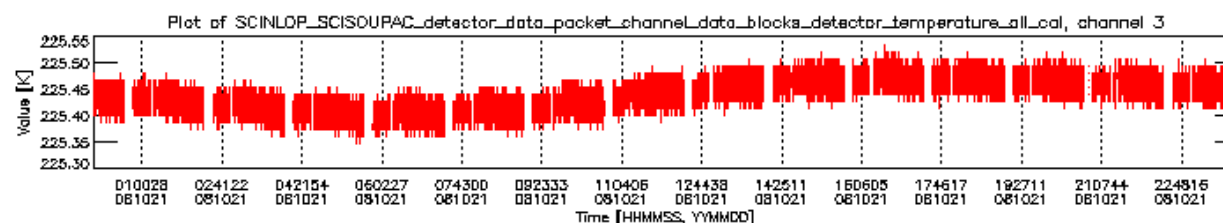
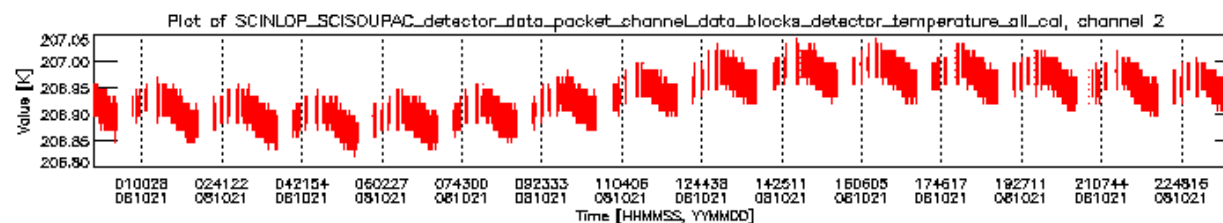
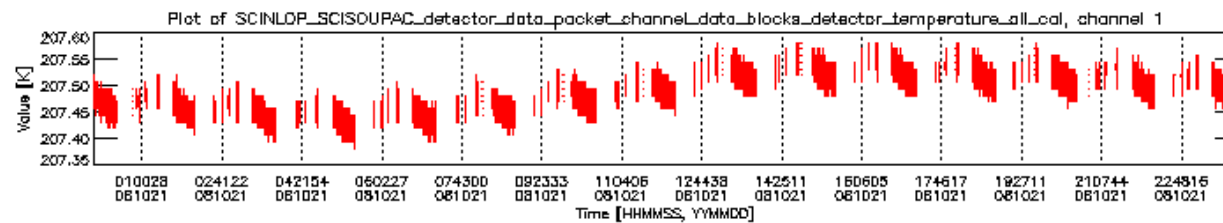




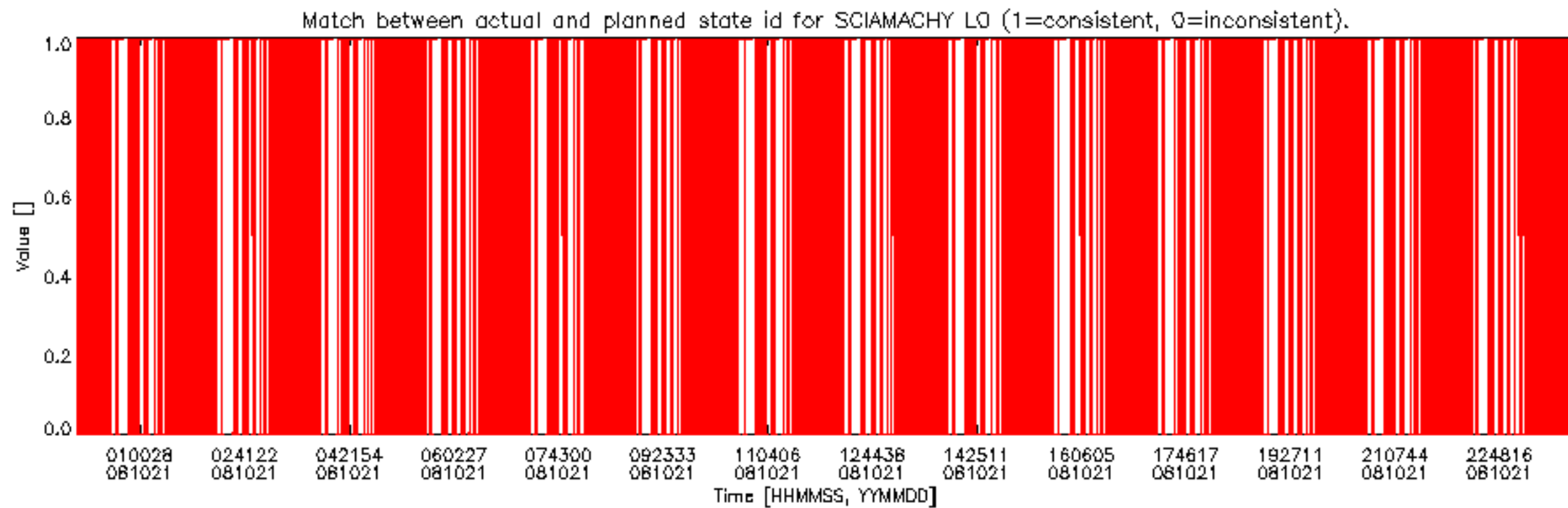
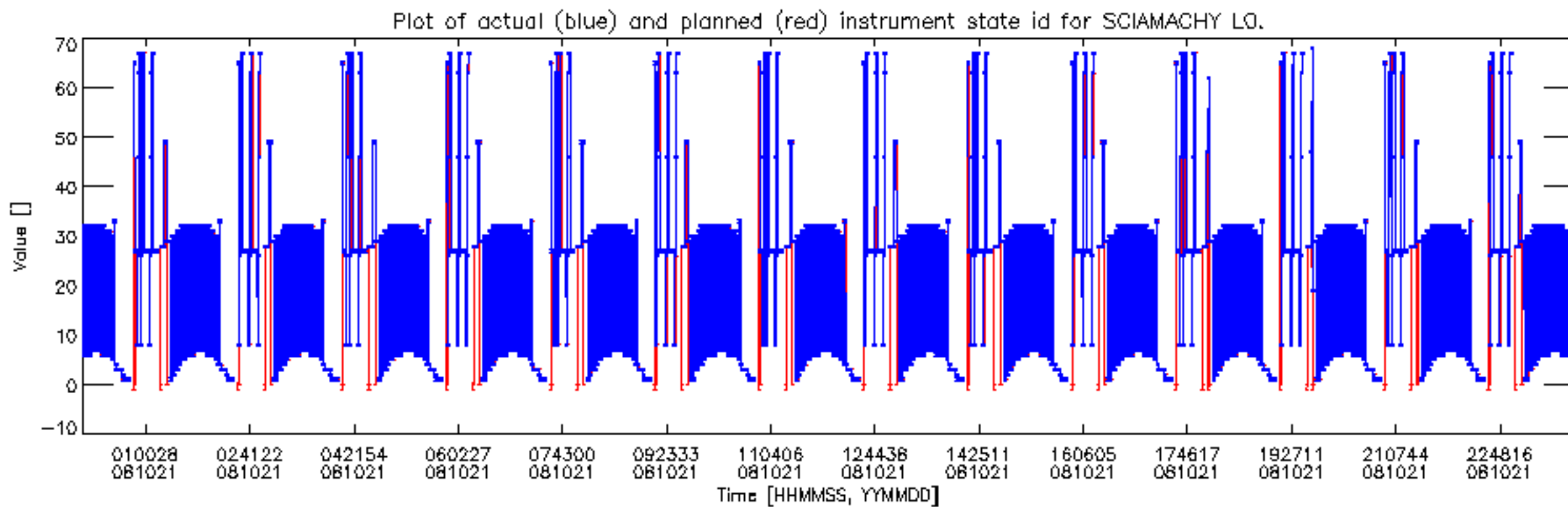




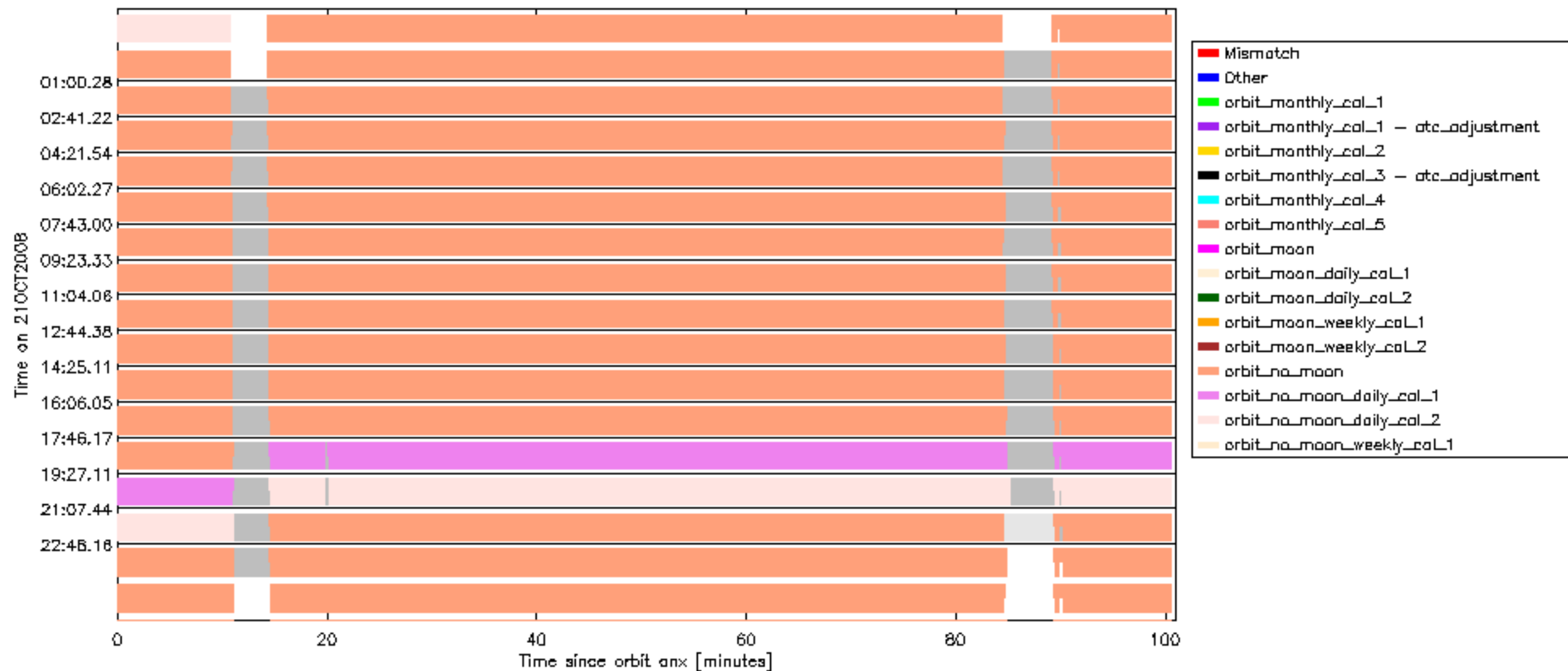


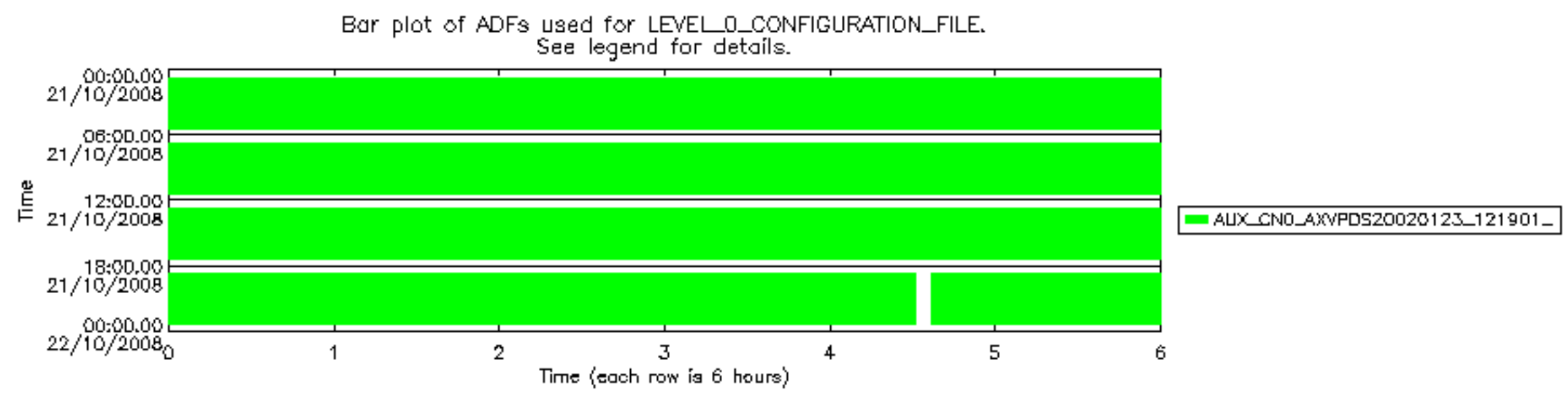






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

