

## 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	02MAY2008 05:32:26
Data source version	KSPT_L0/4303-N
Processing scope for products	29APR2008 00:00:00 to 30APR2008 00:00:00
Start time of first product within scope	28APR2008 23:08:27
Stop time of last product within scope	30APR2008 00:17:56
Total number of level 0 products	15
Number of level 0 products with errors	0

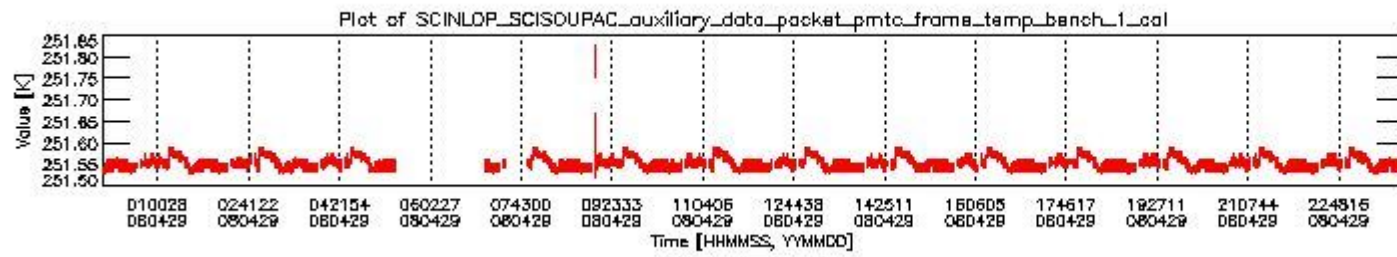
### 0.1.2 Summary per product

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

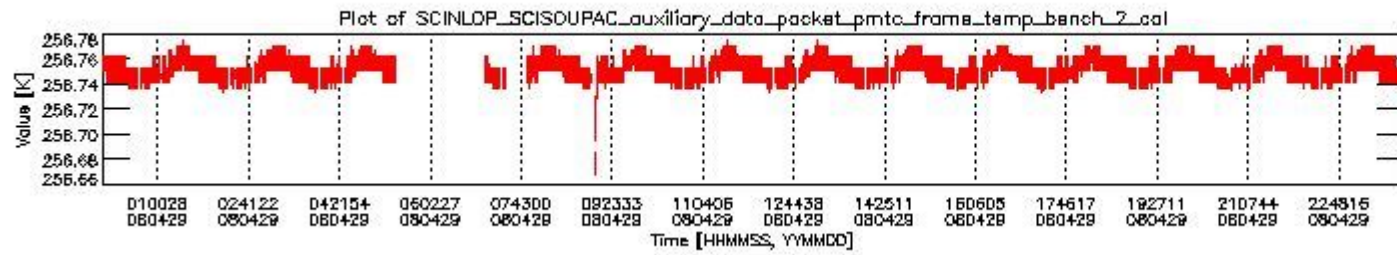
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080428_230827_000060382068_00101_32219_6577.N1	28APR2008 23:08:27	29APR2008 00:49:05	0	0	0	0	0
1	SCI_NL__OPNPDE20080429_004818_000057762068_00102_32220_6578.N1	29APR2008 00:48:18	29APR2008 02:24:34	0	0	0	0	0
2	SCI_NL__OPNPDE20080429_022347_000045842068_00103_32221_6579.N1	29APR2008 02:23:47	29APR2008 03:40:11	0	0	0	0	0
3	SCI_NL__OPNPDE20080429_034011_000061602068_00104_32222_6580.N1	29APR2008 03:40:11	29APR2008 05:22:51	0	0	0	0	0
4	SCI_NL__OPNPDK20080429_070327_000040452068_00106_32224_8077.N1	29APR2008 07:03:27	29APR2008 08:10:52	0	0	0	0	0
5	SCI_NL__OPNPDK20080429_080943_000062292068_00107_32225_8078.N1	29APR2008 08:09:43	29APR2008 09:53:32	0	0	0	0	0
6	SCI_NL__OPNPDK20080429_095236_000059672068_00108_32226_8079.N1	29APR2008 09:52:36	29APR2008 11:32:03	0	0	0	0	0
7	SCI_NL__OPNPDK20080429_113054_000059802068_00109_32227_8080.N1	29APR2008 11:30:54	29APR2008 13:10:34	0	0	0	0	0
8	SCI_NL__OPNPDK20080429_131034_000059112068_00110_32228_8081.N1	29APR2008 13:10:34	29APR2008 14:49:05	0	0	0	0	0
9	SCI_NL__OPNPDK20080429_144905_000057872068_00111_32229_8082.N1	29APR2008 14:49:05	29APR2008 16:25:32	0	0	0	0	0
10	SCI_NL__OPNPDK20080429_162327_000060532068_00112_32230_8083.N1	29APR2008 16:23:27	29APR2008 18:04:20	0	0	0	0	0
11	SCI_NL__OPNPDK20080429_180312_000061042068_00113_32231_8084.N1	29APR2008 18:03:12	29APR2008 19:44:56	0	0	0	0	0
12	SCI_NL__OPNPDE20080429_194251_000040132068_00114_32232_6581.N1	29APR2008 19:42:51	29APR2008 20:49:45	0	0	0	0	0
13	SCI_NL__OPNPDE20080429_204901_000064642068_00114_32232_6582.N1	29APR2008 20:49:01	29APR2008 22:36:44	0	0	0	0	0
14	SCI_NL__OPNPDE20080429_223516_000061602068_00115_32233_6583.N1	29APR2008 22:35:16	30APR2008 00:17:56	0	0	0	0	0

## 0.2 Product Quality Indicators

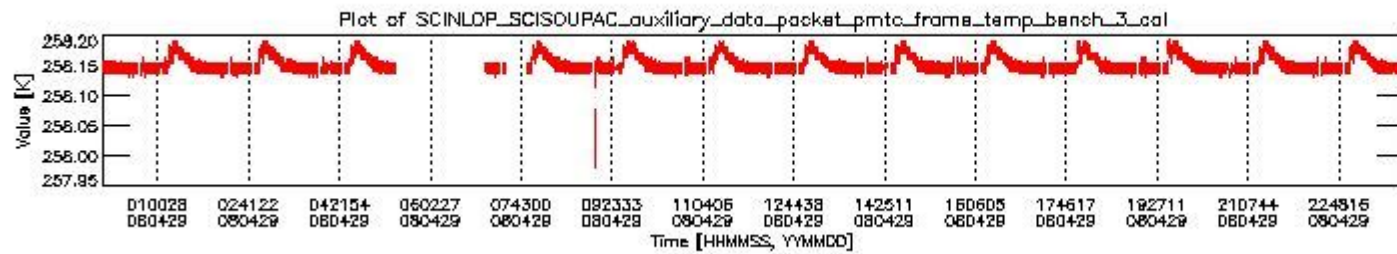
This section shows information about product quality, currently temperatures.



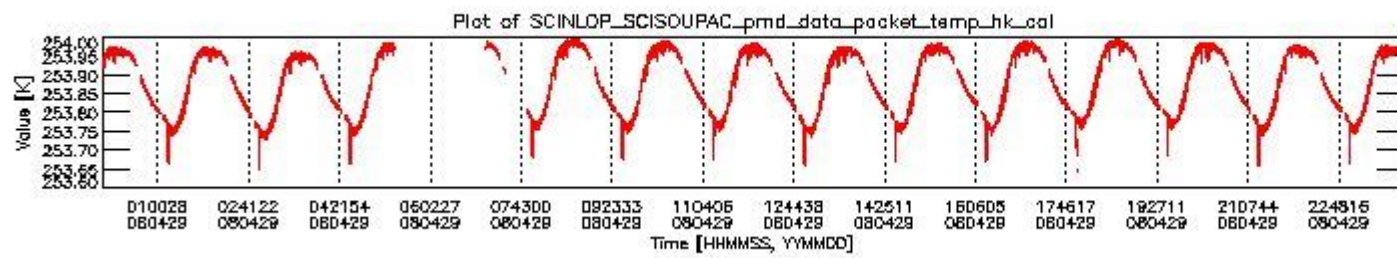
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080429\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080429\_1.PNG

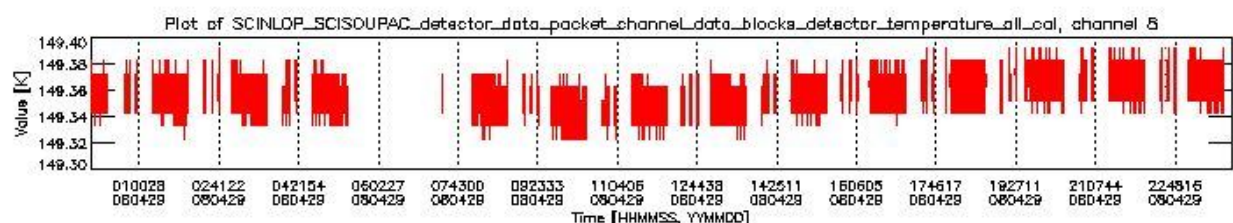
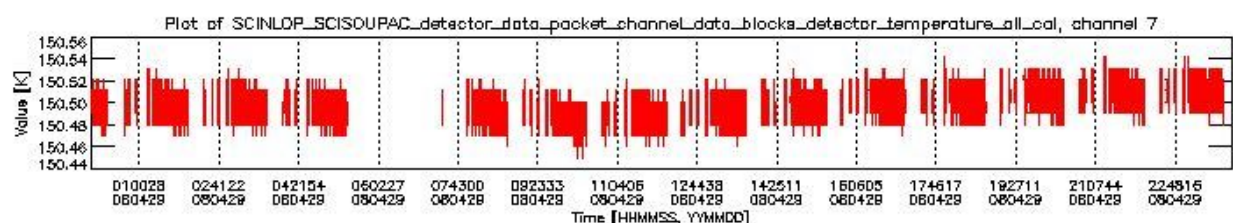
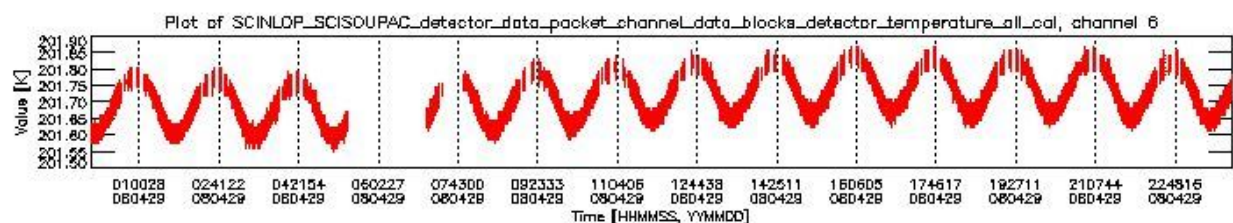
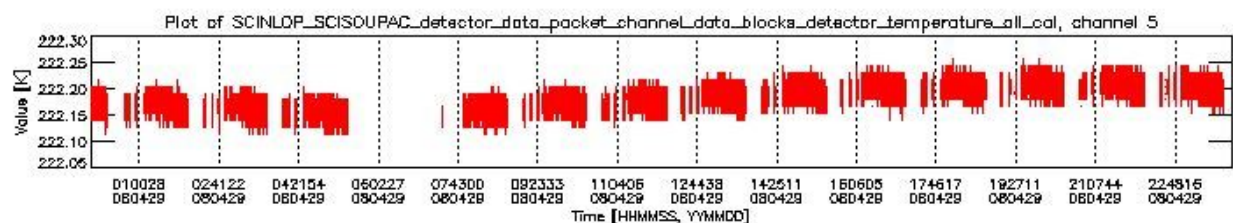
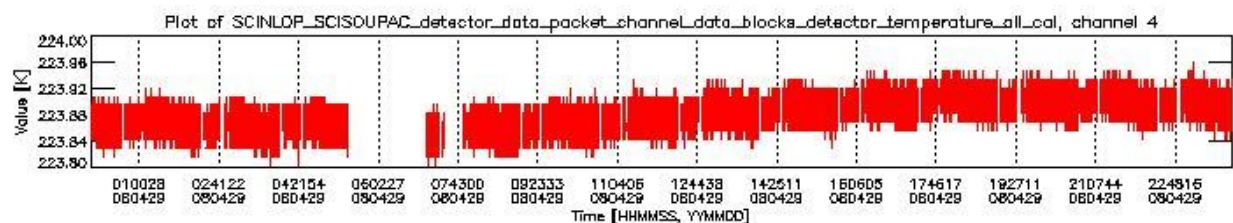
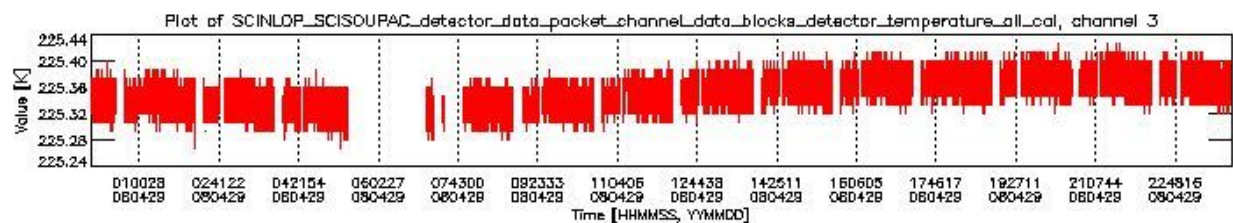
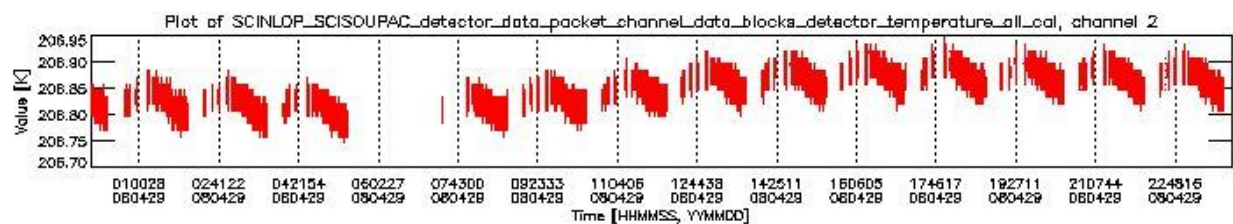
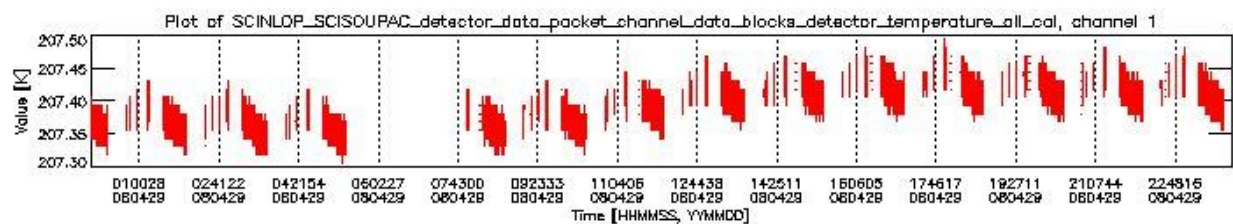


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080429\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080429\_3.PNG



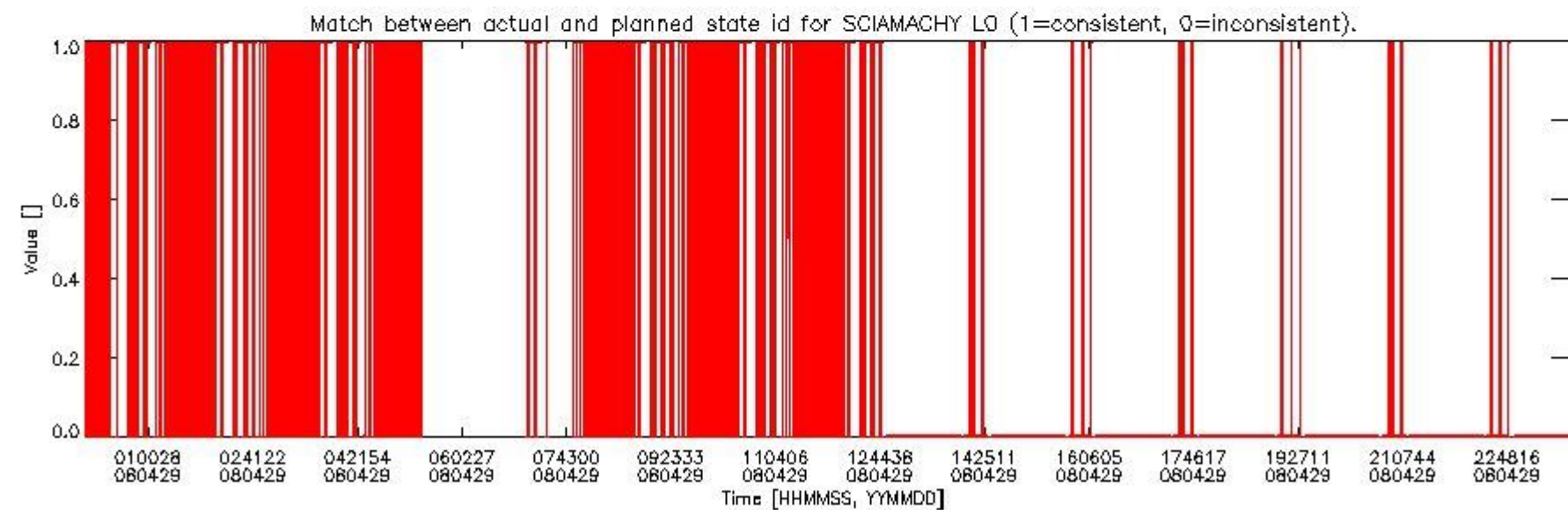
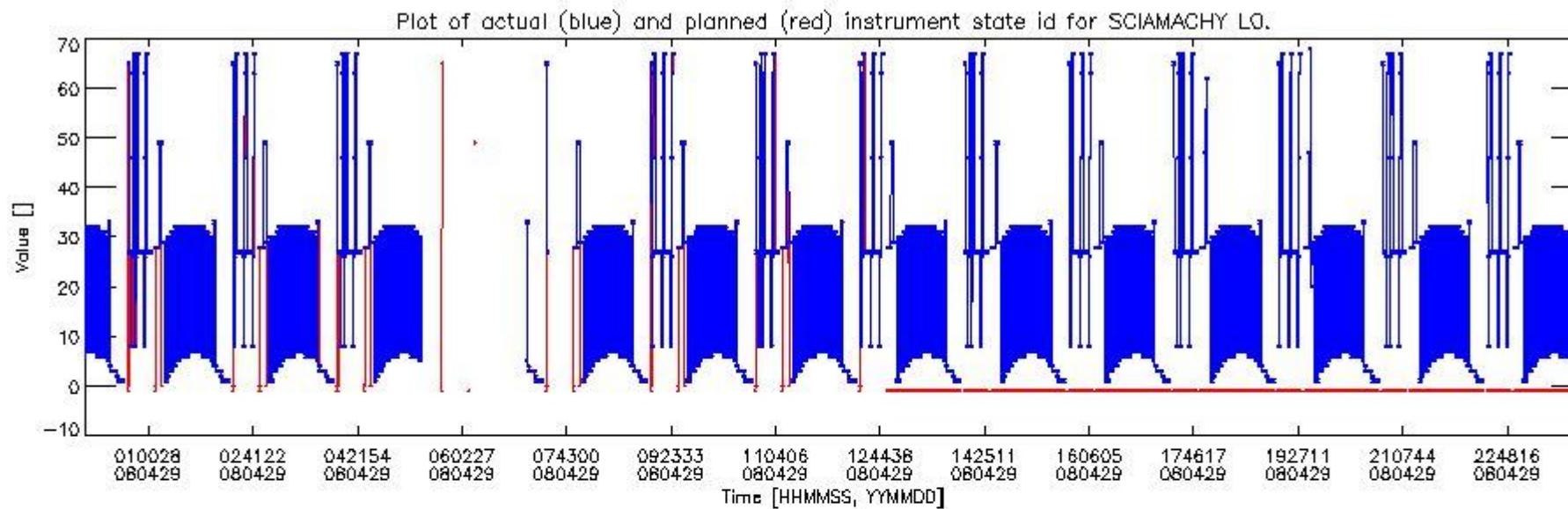


### 0.3 State monitoring

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: **196211**

#	Actual time	Actual value	Planned time	Planned value
0	29APR2008 00:00:20.590514	7	29APR2008 00:00:20.590514	32
1	29APR2008 00:00:20.965487	7	29APR2008 00:00:20.965487	32
2	29APR2008 00:00:21.215495	7	29APR2008 00:00:21.215495	32
3	29APR2008 00:00:21.465504	7	29APR2008 00:00:21.465504	32
4	29APR2008 00:00:21.715513	7	29APR2008 00:00:21.715513	32
5	29APR2008 00:00:21.965522	7	29APR2008 00:00:21.965522	32
6	29APR2008 00:00:22.215490	7	29APR2008 00:00:22.215490	32
7	29APR2008 00:00:22.465499	7	29APR2008 00:00:22.465499	32
8	29APR2008 00:00:22.715507	7	29APR2008 00:00:22.715507	32
9	29APR2008 00:00:22.965516	7	29APR2008 00:00:22.965516	32
10	29APR2008 00:00:23.215485	7	29APR2008 00:00:23.215485	32
11	29APR2008 00:00:23.465493	7	29APR2008 00:00:23.465493	32
12	29APR2008 00:00:23.715502	7	29APR2008 00:00:23.715502	32
13	29APR2008 00:00:23.965511	7	29APR2008 00:00:23.965511	32
14	29APR2008 00:00:24.215519	7	29APR2008 00:00:24.215519	32
15	29APR2008 00:00:24.465488	7	29APR2008 00:00:24.465488	32
16	29APR2008 00:00:24.715497	7	29APR2008 00:00:24.715497	32
17	29APR2008 00:00:24.965505	7	29APR2008 00:00:24.965505	32
18	29APR2008 00:00:25.215514	7	29APR2008 00:00:25.215514	32
19	29APR2008 00:00:25.465523	7	29APR2008 00:00:25.465523	32
	...	...	...	...



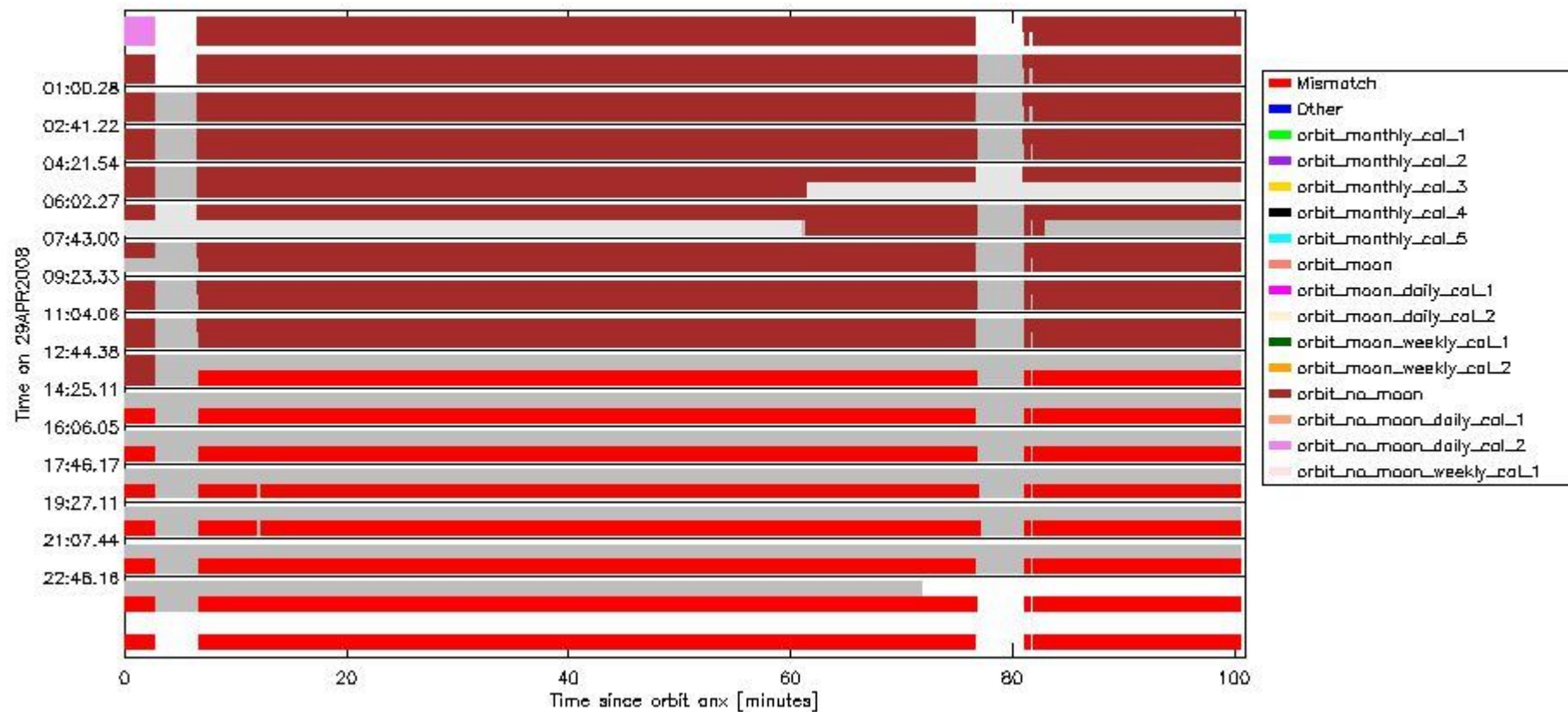
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080429\_5.PNG

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 29APR2008.  
 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\_20080429\_6.PNG

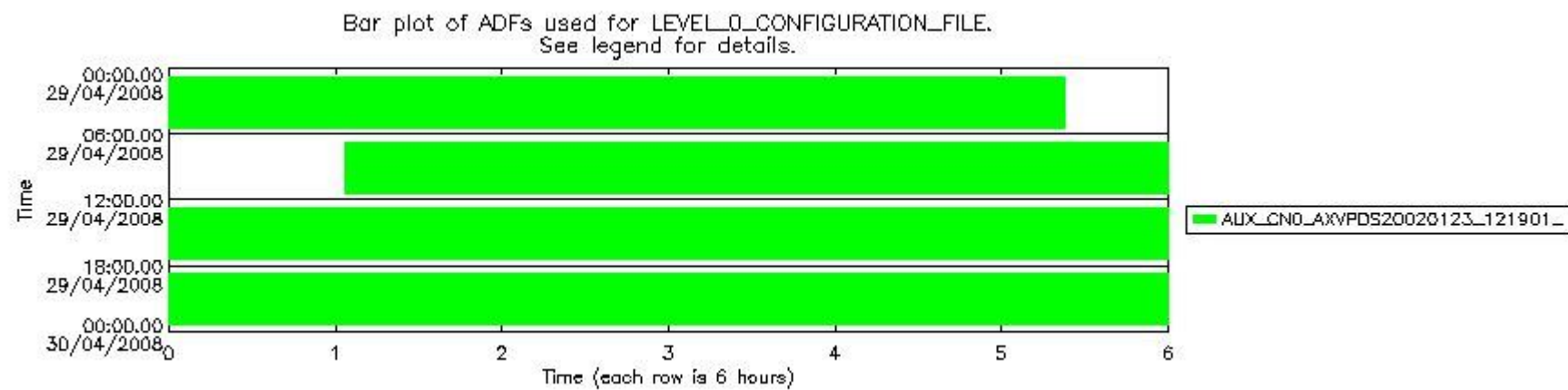
## 0.4 ADF monitoring

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

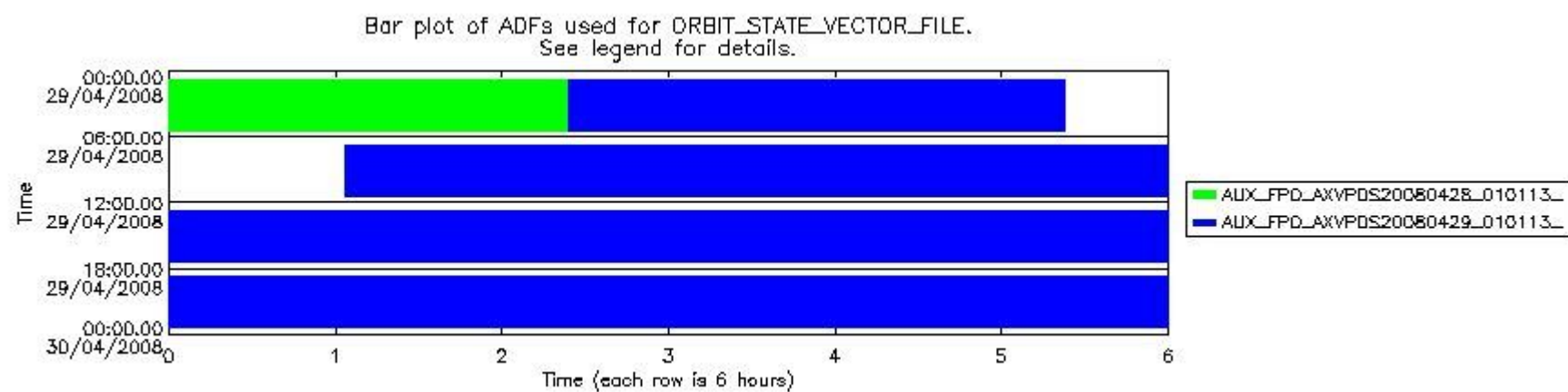
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

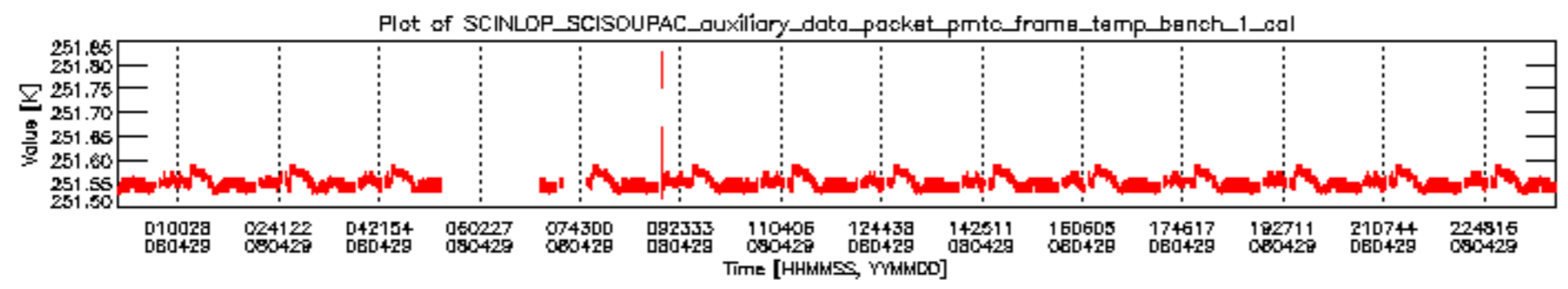
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
<b>1</b>	<b>AUX_FPO_AXVPDS20080428_010113_20080427_184946_20080507_201601</b>
<b>2</b>	<b>AUX_FPO_AXVPDS20080429_010113_20080428_195845_20080508_212500</b>



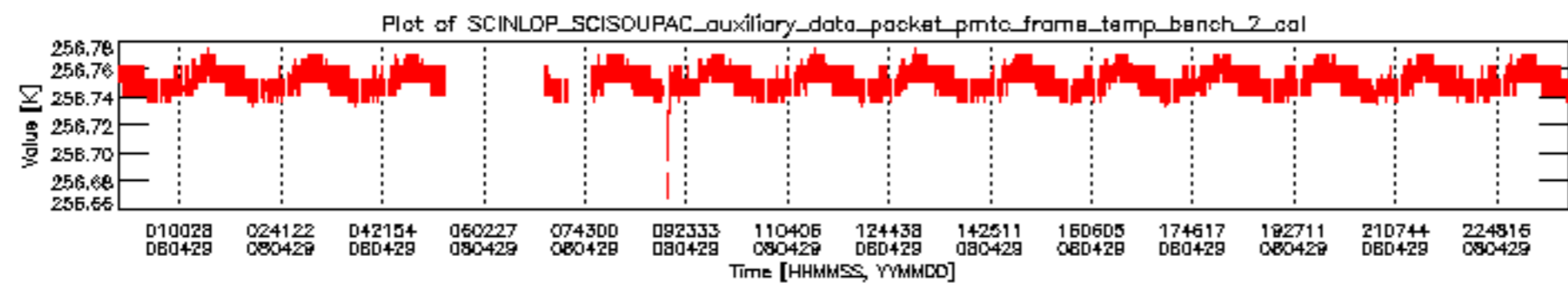
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080429\_7.PNG

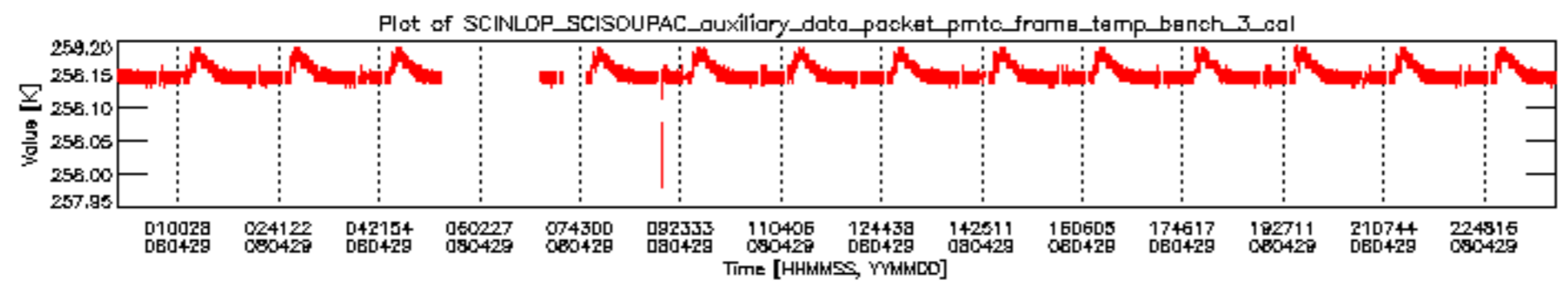


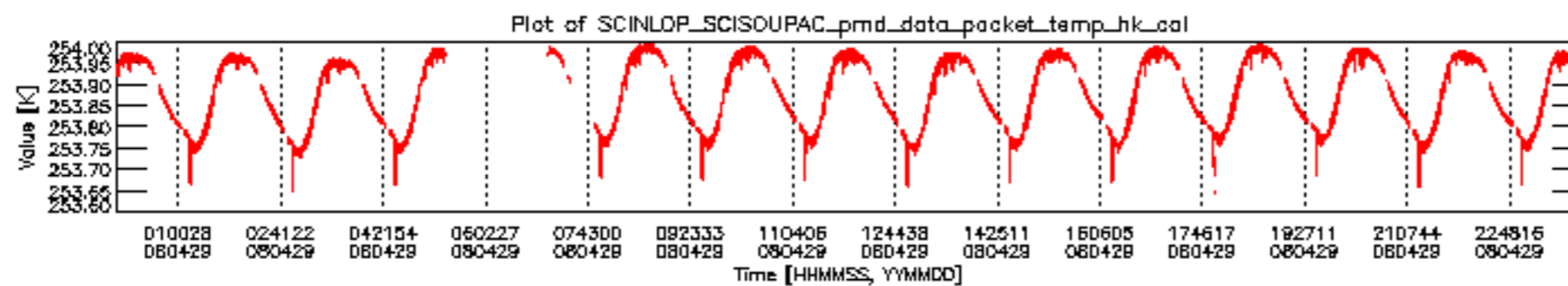
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080429\_8.PNG

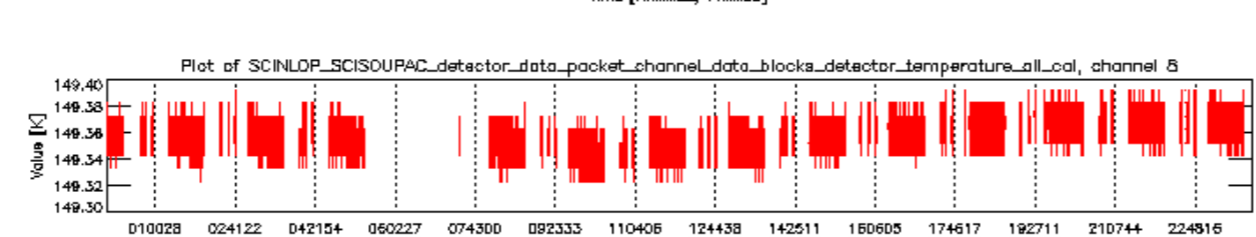
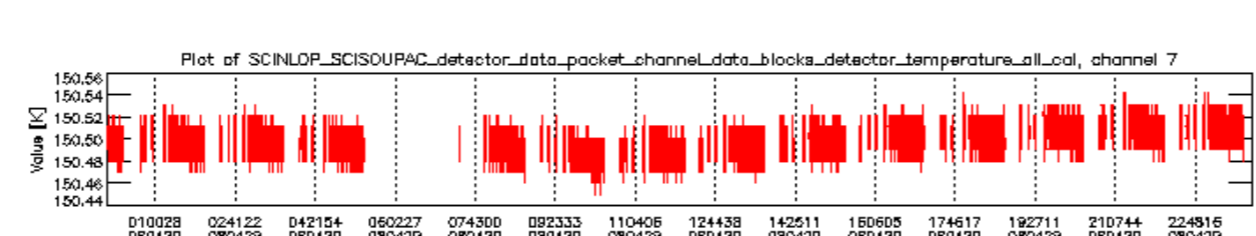
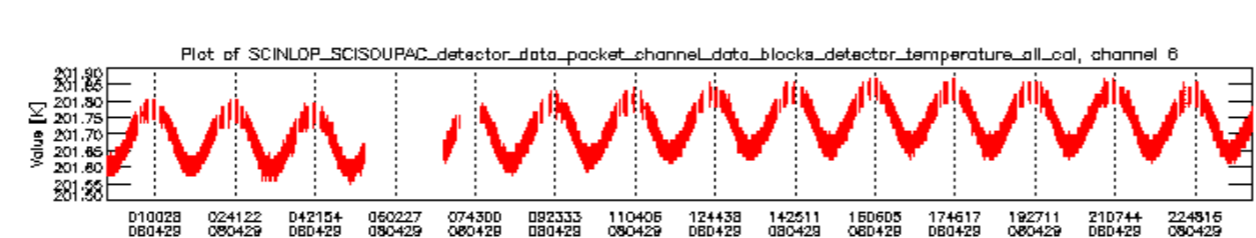
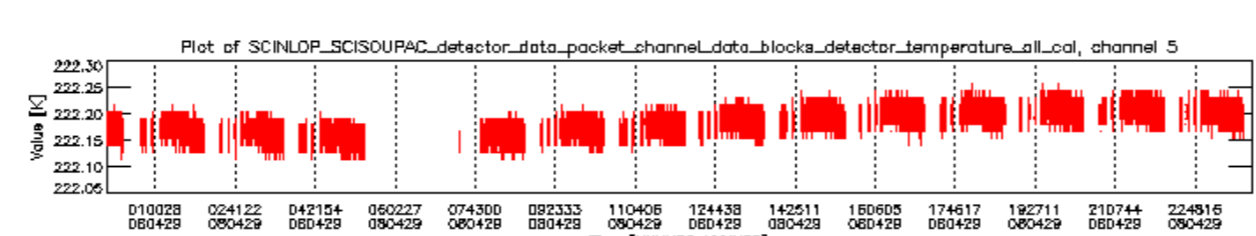
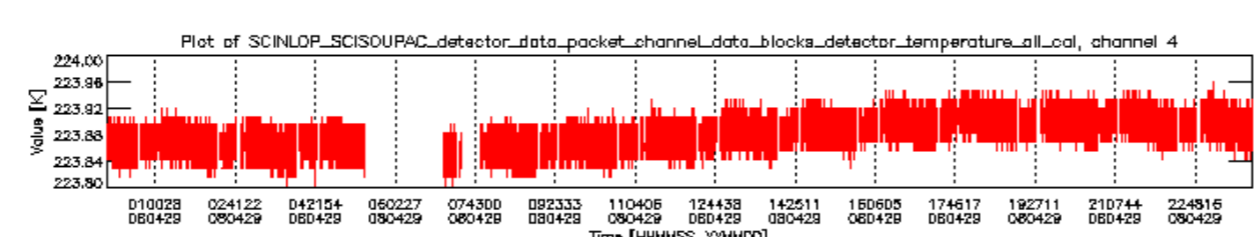
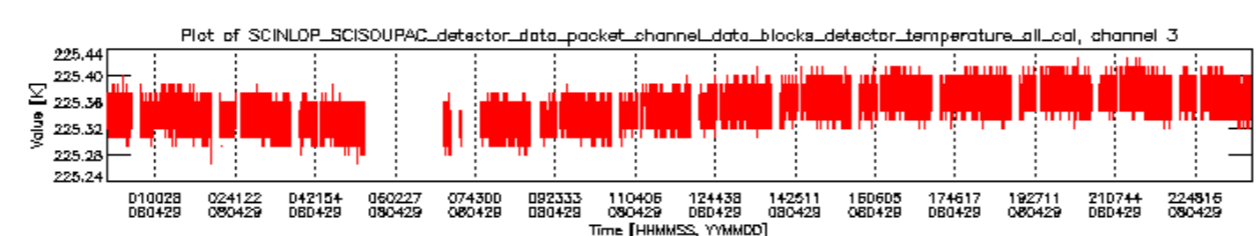
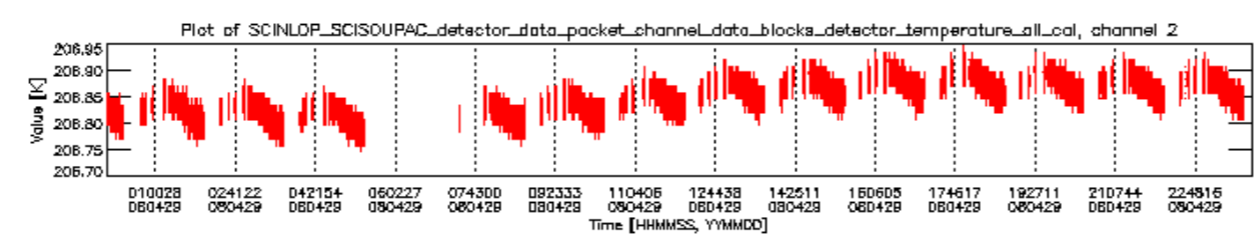
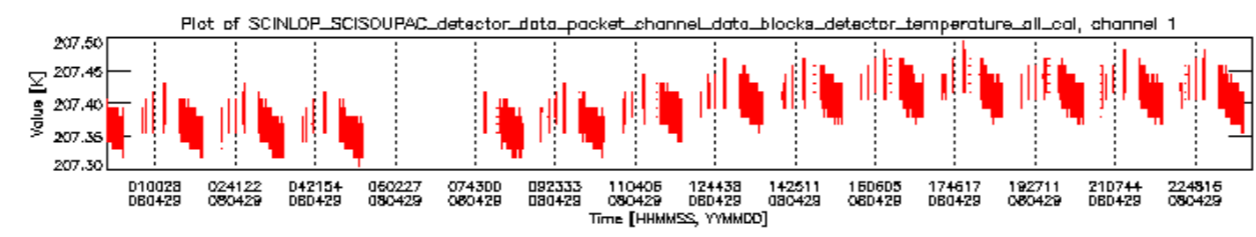




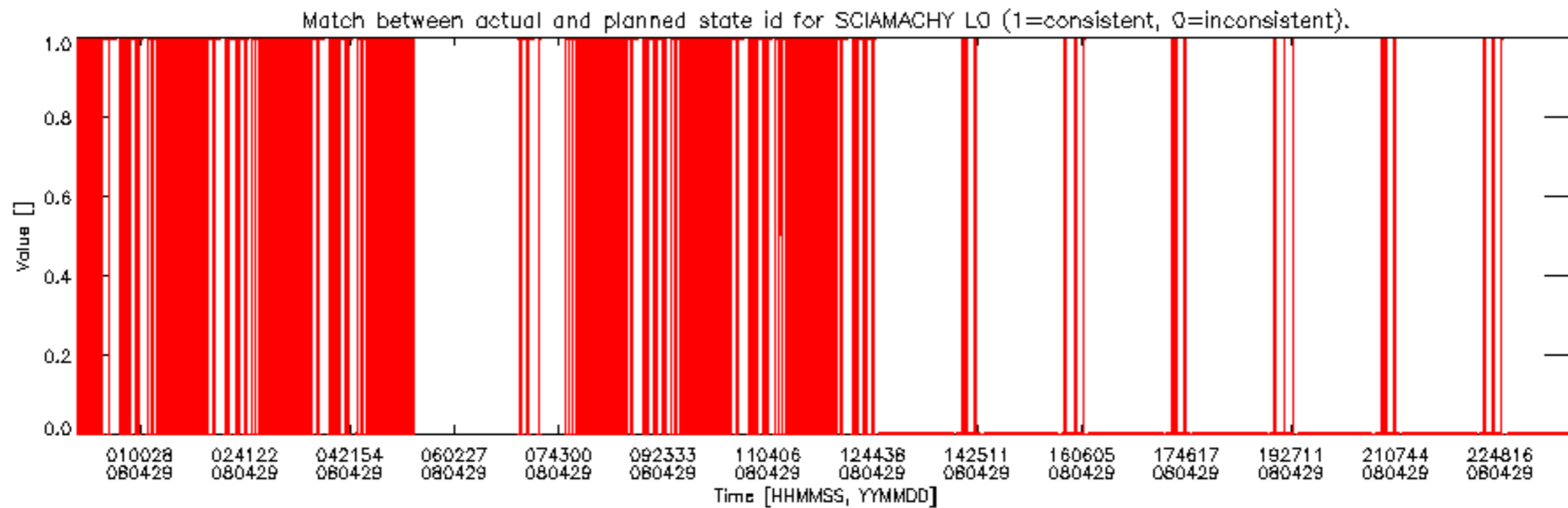
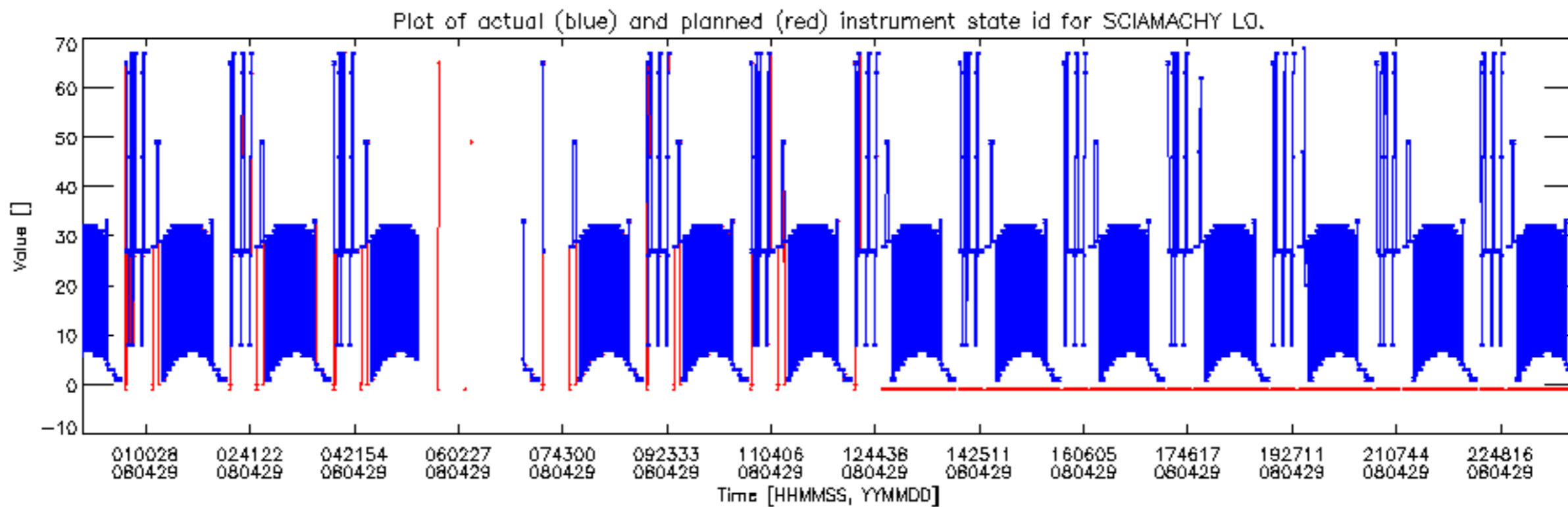




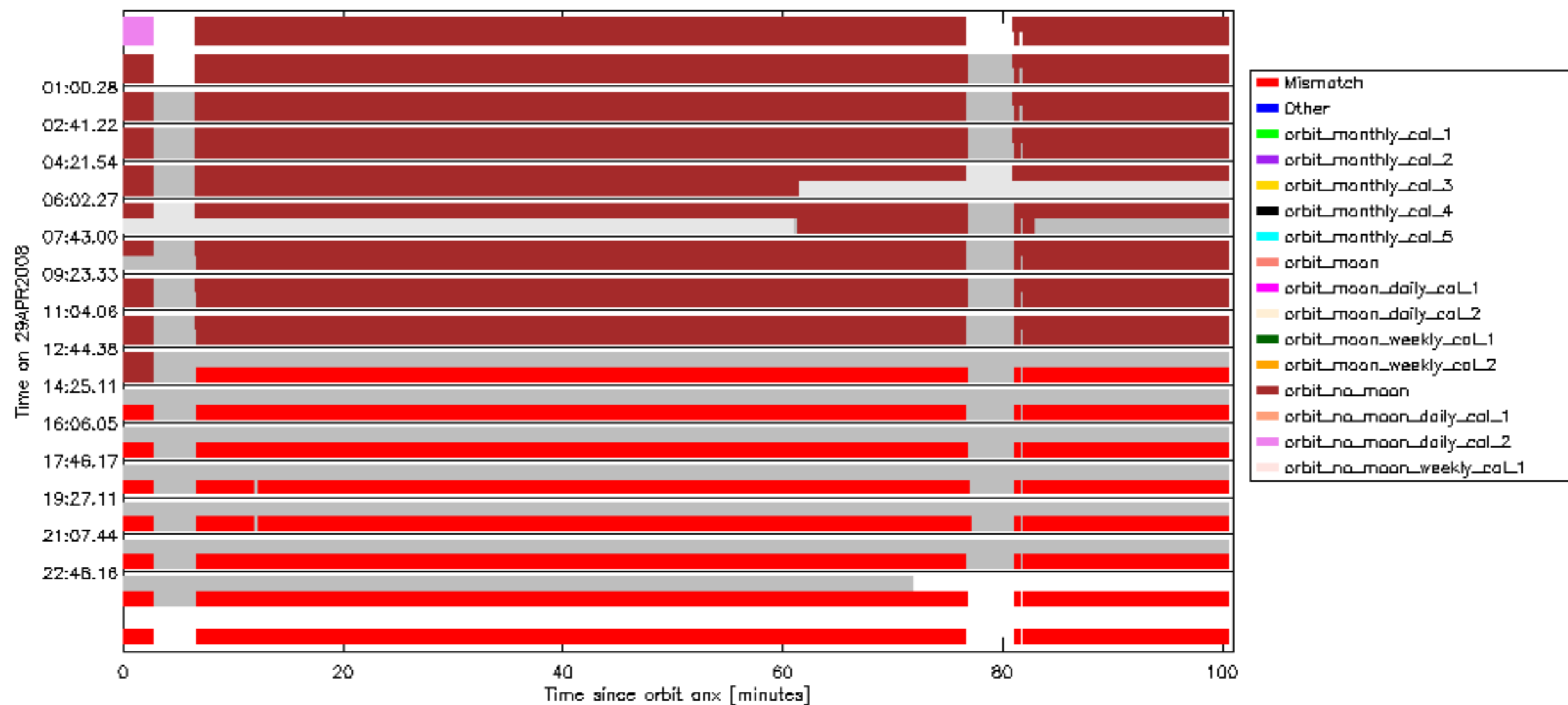


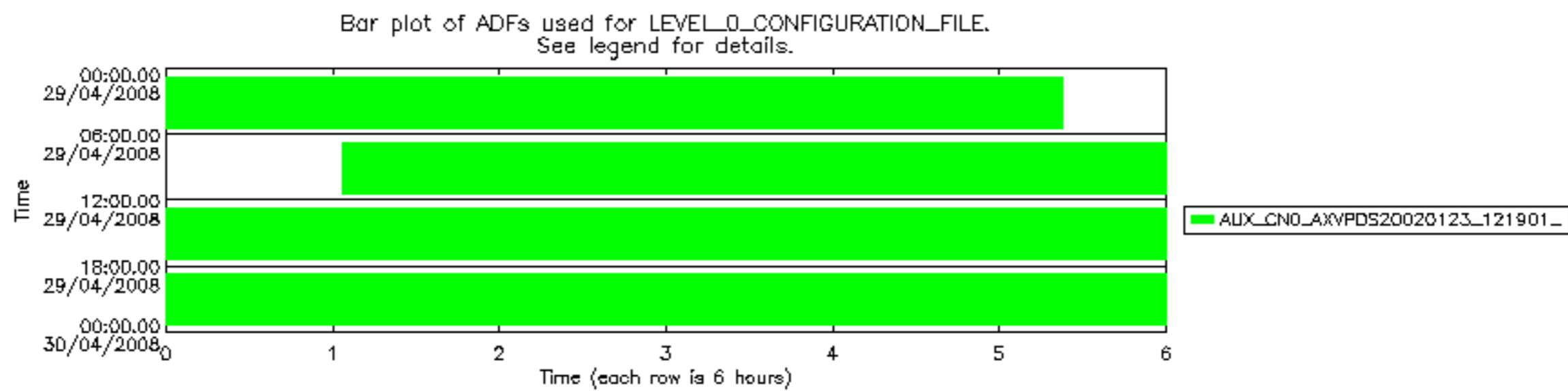






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 29APR2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

