

## 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	25APR2008 05:16:21
Data source version	KSPT_L0/4303-N
Processing scope for products	21APR2008 00:00:00 to 22APR2008 00:00:00
Start time of first product within scope	20APR2008 22:17:34
Stop time of last product within scope	21APR2008 22:02:14
Total number of level 0 products	16
Number of level 0 products with errors	1

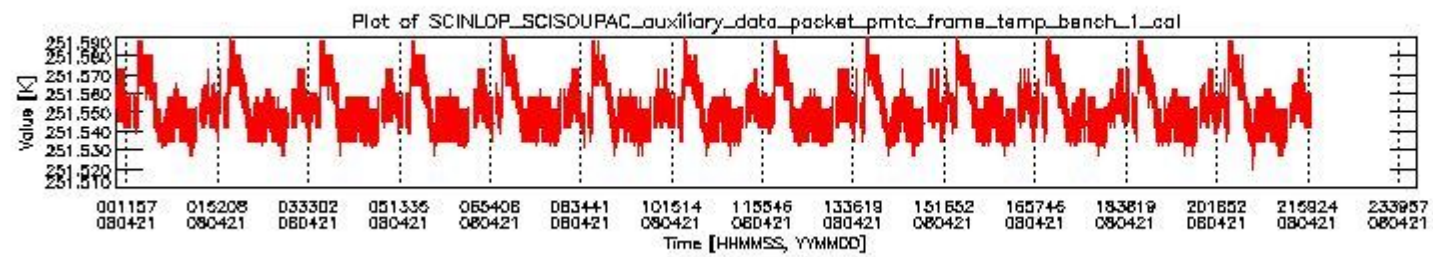
### 0.1.2 Summary per product

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

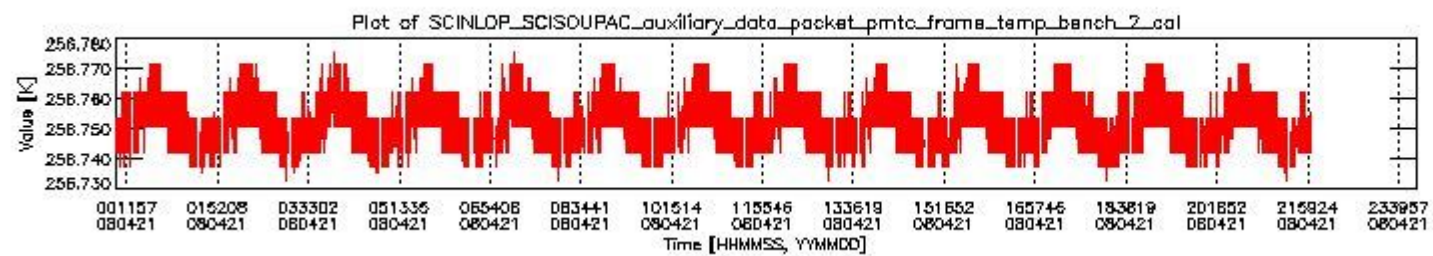
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080420_221734_000062072067_00487_32104_6530.N1	20APR2008 22:17:34	21APR2008 00:01:01	0	0	0	0	0
1	SCI_NL__OPNPDE20080421_000017_000059082067_00488_32105_6531.N1	21APR2008 00:00:17	21APR2008 01:38:45	0	0	0	0	0
2	SCI_NL__OPNPDE20080421_013845_000046992067_00489_32106_6532.N1	21APR2008 01:38:45	21APR2008 02:57:03	0	0	0	0	0
3	SCI_NL__OPNPDE20080421_025608_000058552067_00490_32107_6533.N1	21APR2008 02:56:08	21APR2008 04:33:43	0	0	0	0	0
4	SCI_NL__OPNPDE20080421_043234_000060922067_00491_32108_6534.N1	21APR2008 04:32:34	21APR2008 06:14:06	0	0	0	0	0
5	SCI_NL__OPNPDK20080421_061406_000040572067_00492_32109_8006.N1	21APR2008 06:14:06	21APR2008 07:21:43	0	0	0	0	0
6	SCI_NL__OPNPDK20080421_072143_000061472067_00493_32110_8007.N1	21APR2008 07:21:43	21APR2008 09:04:11	0	0	0	0	0
7	SCI_NL__OPNPDK20080421_090411_000059242067_00494_32111_8008.N1	21APR2008 09:04:11	21APR2008 10:42:54	1	0	1	0	0
8	SCI_NL__OPNPDK20080421_104254_000059672067_00495_32112_8009.N1	21APR2008 10:42:54	21APR2008 12:22:21	0	0	0	0	0
9	SCI_NL__OPNPDK20080421_122221_000060362067_00496_32113_8010.N1	21APR2008 12:22:21	21APR2008 14:02:57	0	0	0	0	0
10	SCI_NL__OPNPDK20080421_140201_000058432067_00497_32114_8011.N1	21APR2008 14:02:01	21APR2008 15:39:24	0	0	0	0	0
11	SCI_NL__OPNPDK20080421_153815_000058732067_00498_32115_8012.N1	21APR2008 15:38:15	21APR2008 17:16:08	0	0	0	0	0
12	SCI_NL__OPNPDK20080421_171404_000059802067_00499_32116_8013.N1	21APR2008 17:14:04	21APR2008 18:53:44	0	0	0	0	0
13	SCI_NL__OPNPDK20080421_185248_000060732067_00500_32117_8014.N1	21APR2008 18:52:48	21APR2008 20:34:01	0	0	0	0	0
14	SCI_NL__OPNPDE20080421_203305_000043652067_00501_32118_6535.N1	21APR2008 20:33:05	21APR2008 21:45:51	0	0	0	0	0
15	SCI_NL__OPNPDK20080421_214430_000010642067_00501_32118_8015.N1	21APR2008 21:44:30	21APR2008 22:02:14	0	0	0	0	0

## 0.2 Product Quality Indicators

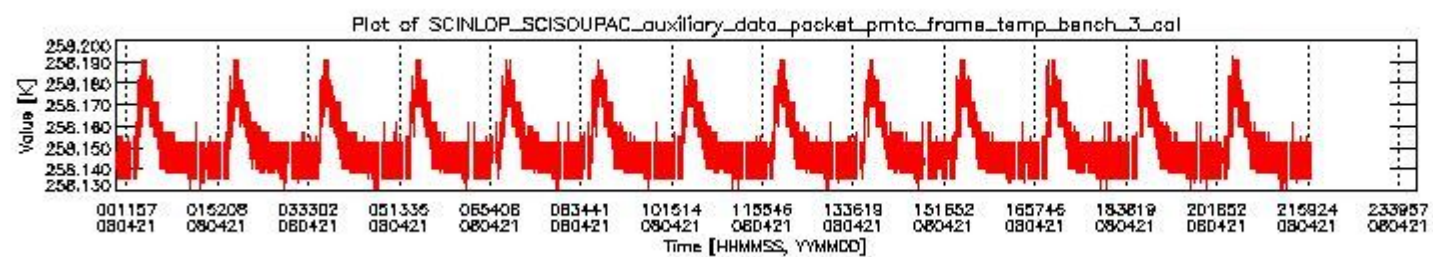
This section shows information about product quality, currently temperatures.



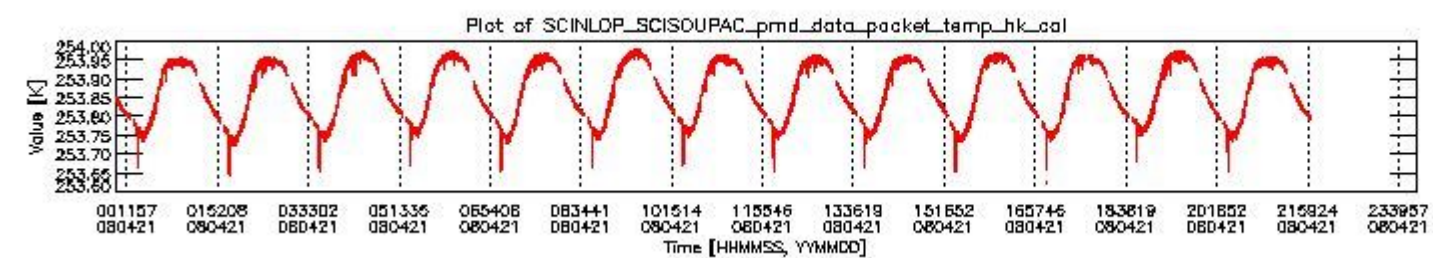
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080421\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080421\_1.PNG

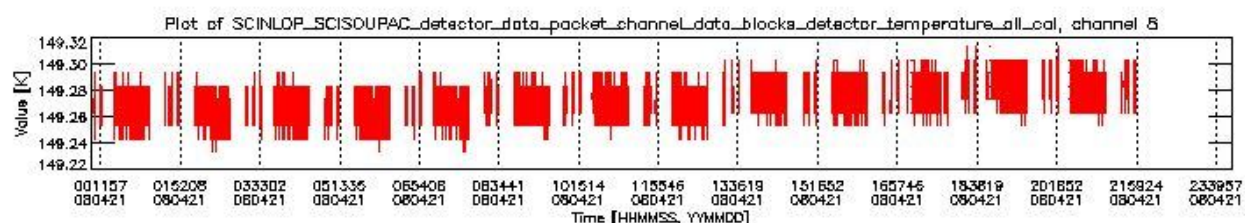
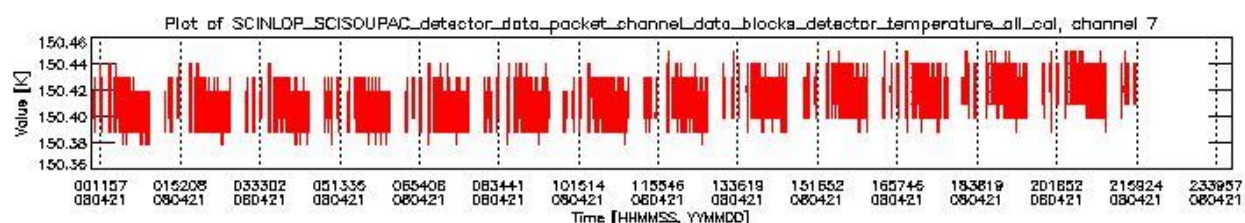
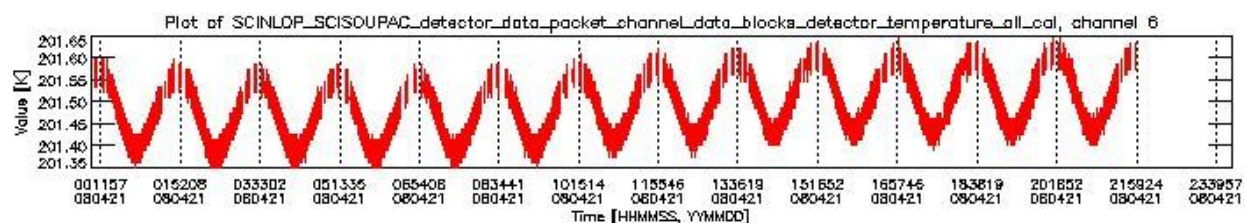
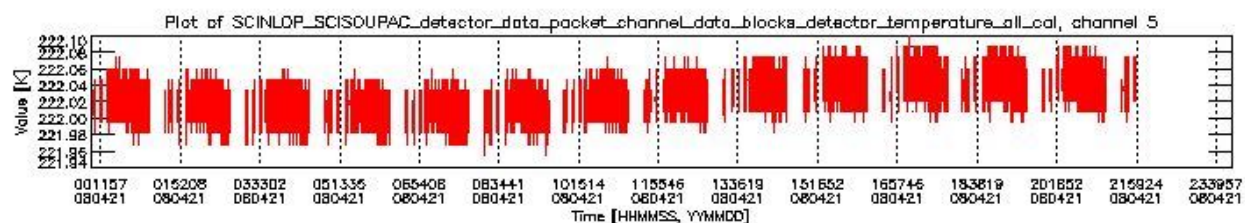
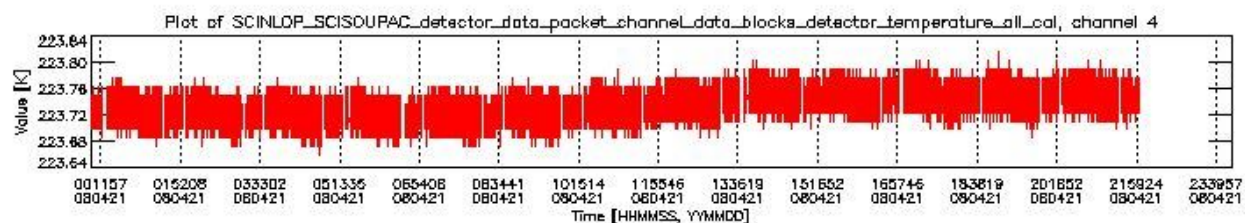
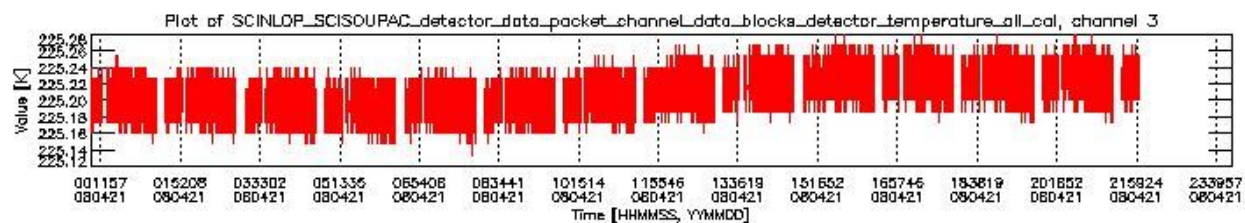
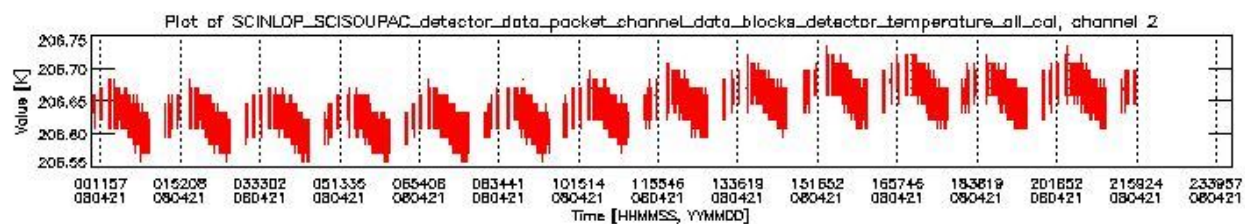
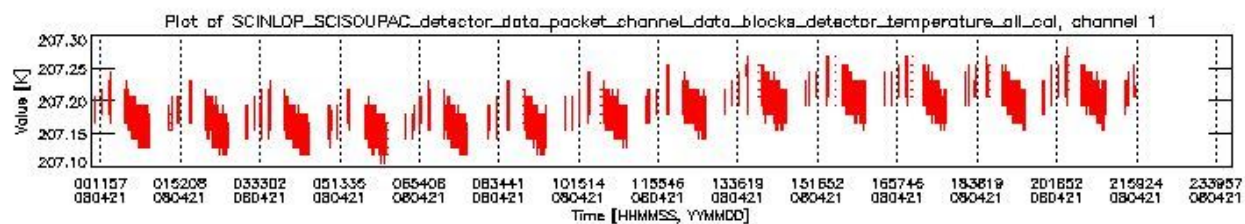


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080421\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080421\_3.PNG



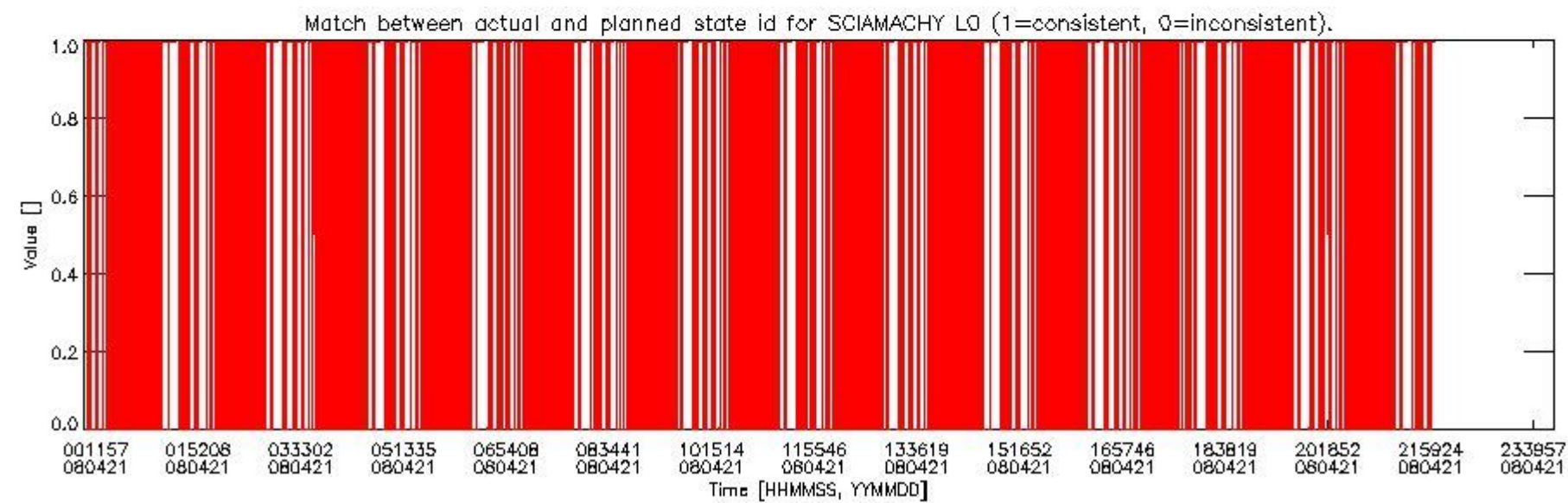
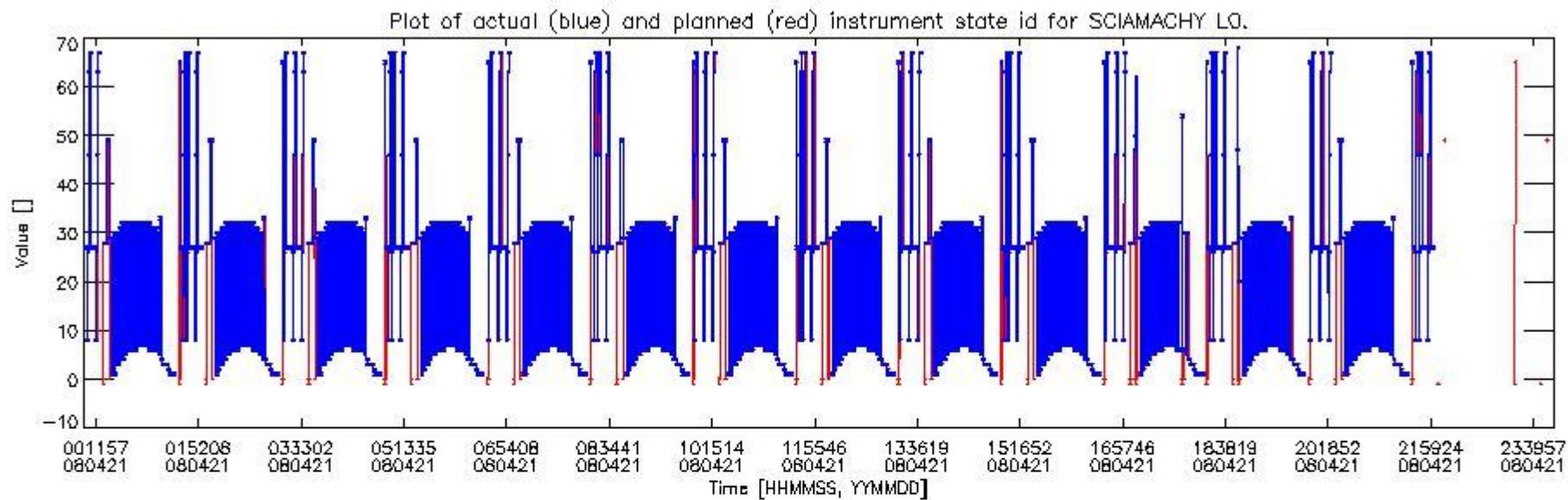


### 0.3 State monitoring

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: **36856**

#	Actual time	Actual value	Planned time	Planned value
0	21APR2008 00:03:13.877645	8	21APR2008 00:03:13.877645	27
1	21APR2008 00:03:15.002644	8	21APR2008 00:03:15.002644	27
2	21APR2008 00:03:16.002638	8	21APR2008 00:03:16.002638	27
3	21APR2008 00:03:17.002633	8	21APR2008 00:03:17.002633	27
4	21APR2008 00:03:18.002627	8	21APR2008 00:03:18.002627	27
5	21APR2008 00:03:18.877618	8	21APR2008 00:03:18.877618	27
6	21APR2008 00:03:19.002622	8	21APR2008 00:03:19.002622	27
7	21APR2008 00:03:20.002617	8	21APR2008 00:03:20.002617	27
8	21APR2008 00:03:21.002611	8	21APR2008 00:03:21.002611	27
9	21APR2008 00:03:22.002646	8	21APR2008 00:03:22.002646	27
10	21APR2008 00:03:23.002641	8	21APR2008 00:03:23.002641	27
11	21APR2008 00:03:57.436210	26	21APR2008 00:03:57.436210	8
12	21APR2008 00:03:58.061231	26	21APR2008 00:03:58.061231	8
13	21APR2008 00:03:58.561209	26	21APR2008 00:03:58.561209	8
14	21APR2008 00:03:59.061226	26	21APR2008 00:03:59.061226	8
15	21APR2008 00:03:59.561243	26	21APR2008 00:03:59.561243	8
16	21APR2008 00:04:00.061221	26	21APR2008 00:04:00.061221	8
17	21APR2008 00:04:00.561238	26	21APR2008 00:04:00.561238	8
18	21APR2008 00:04:01.061215	26	21APR2008 00:04:01.061215	8
19	21APR2008 00:04:01.561233	26	21APR2008 00:04:01.561233	8
	...	...	...	...



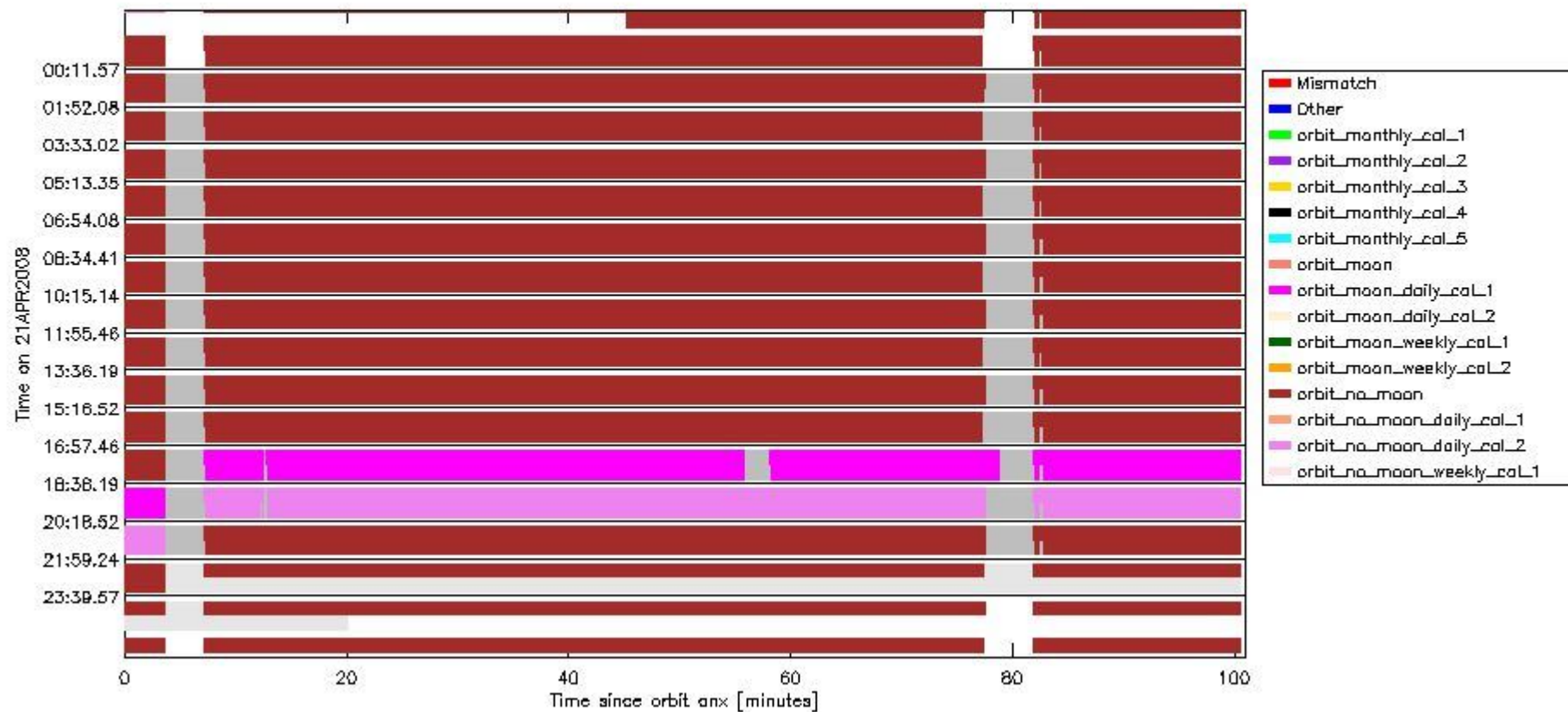
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080421\_5.PNG

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 21APR2008.  
 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\_20080421\_6.PNG

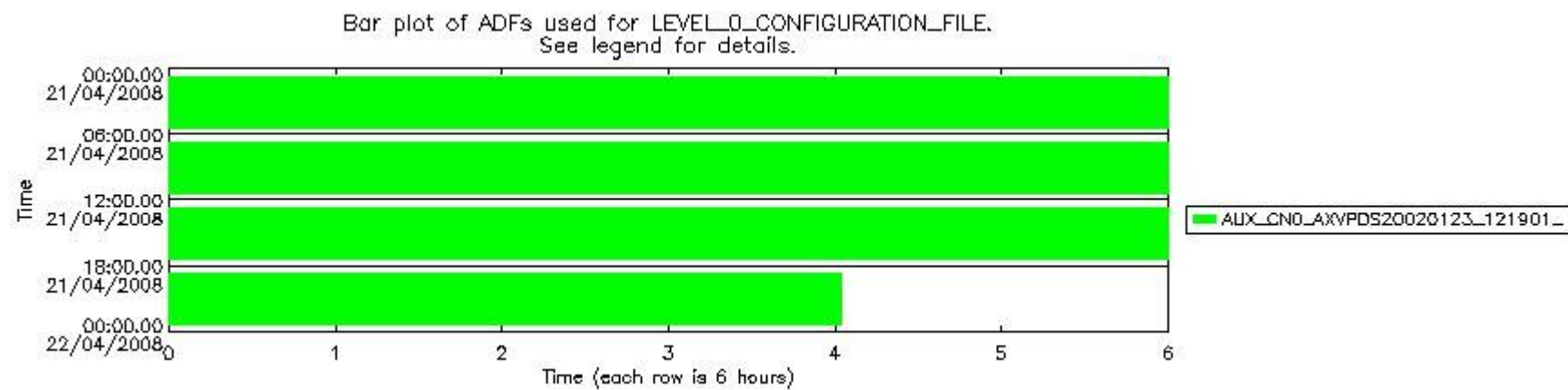
## 0.4 ADF monitoring

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

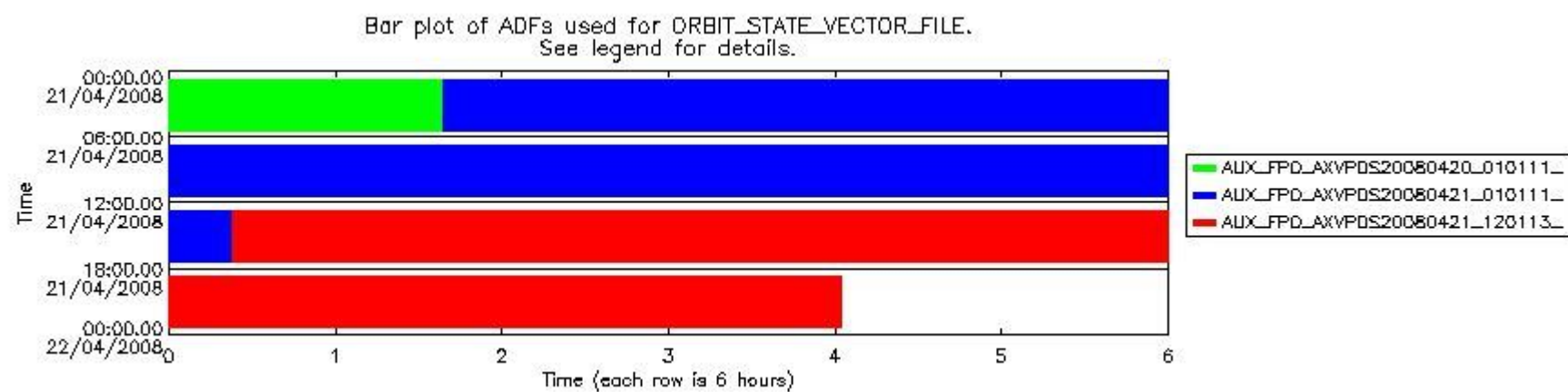
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

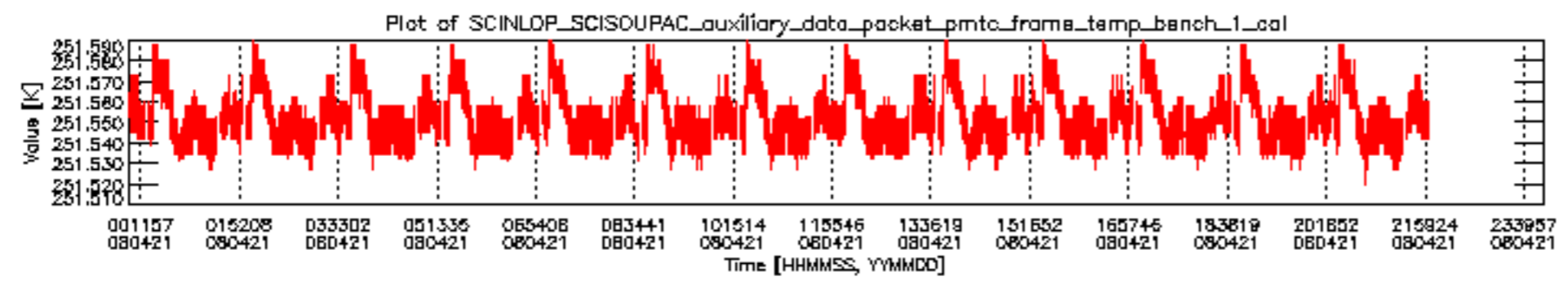
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20080420_010111_20080419_194130_20080429_210743
2	AUX_FPO_AXVPDS20080421_010111_20080420_190953_20080430_203606
3	AUX_FPO_AXVPDS20080421_120113_20080421_101517_20080430_235718



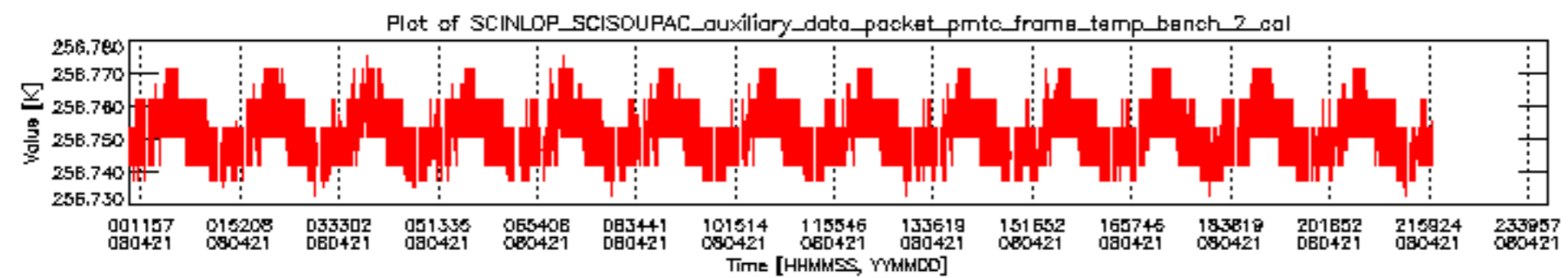
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080421\_7.PNG

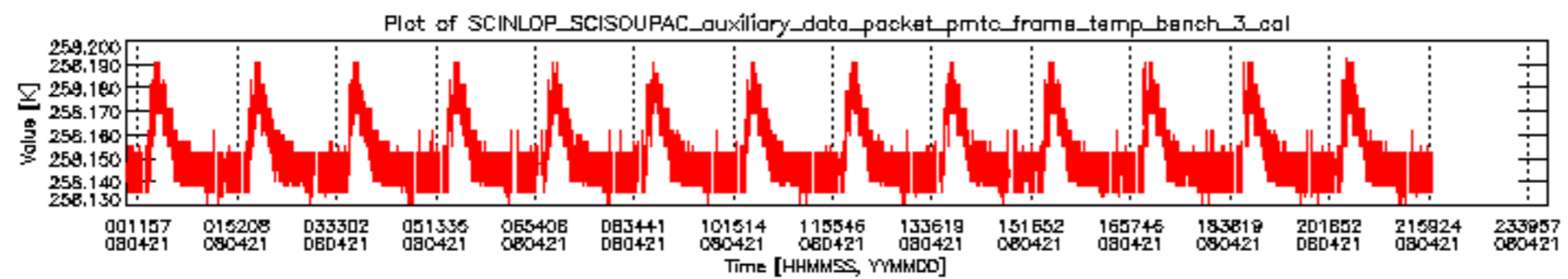


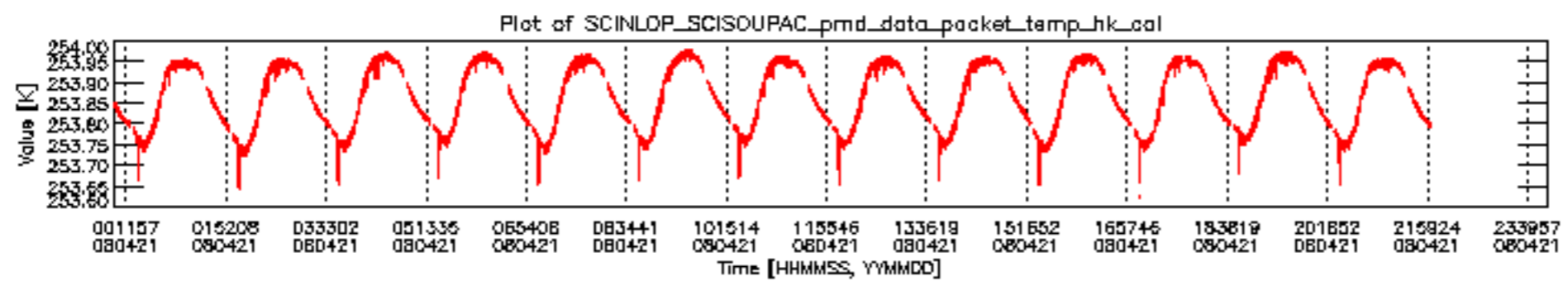
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080421\_8.PNG

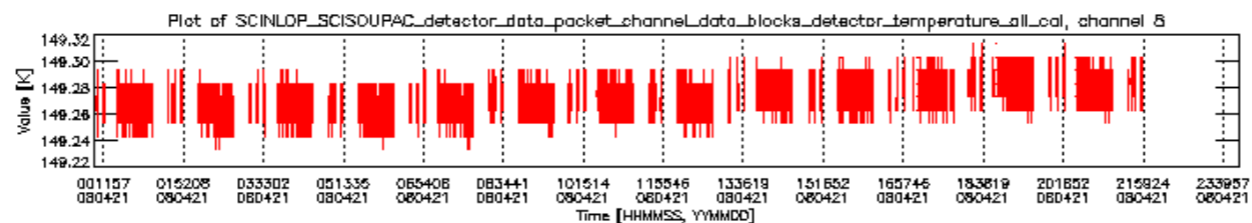
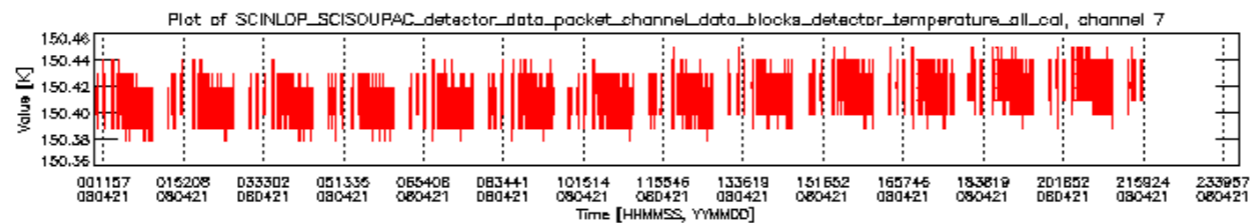
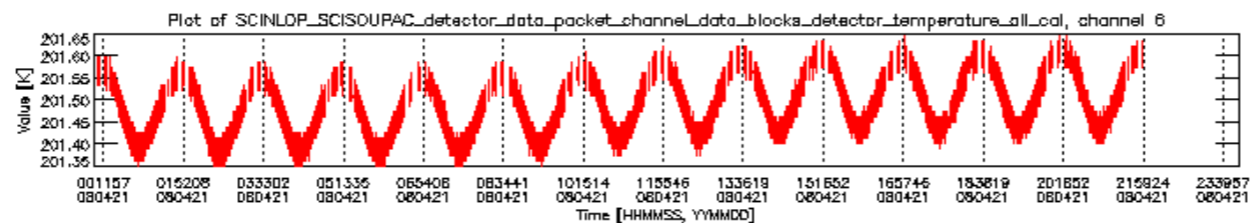
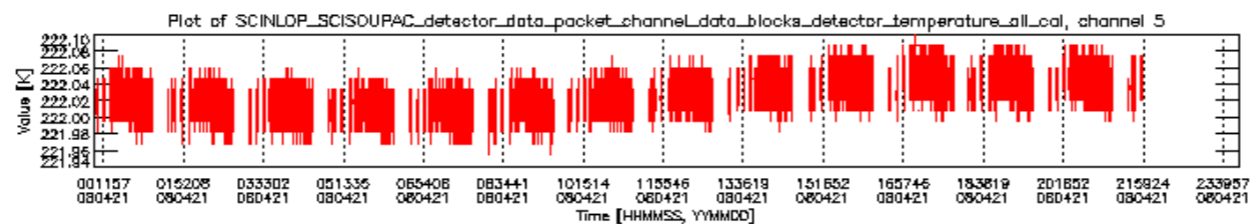
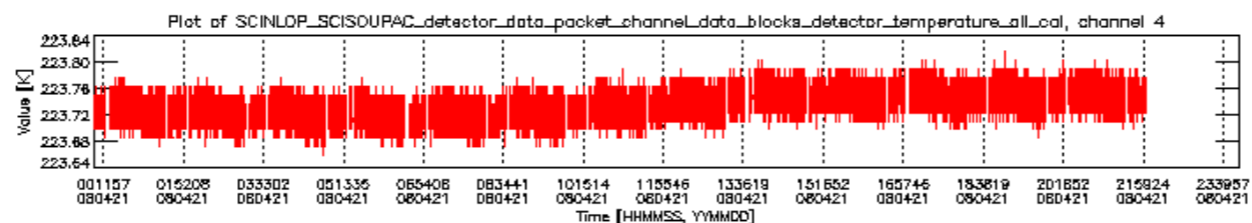
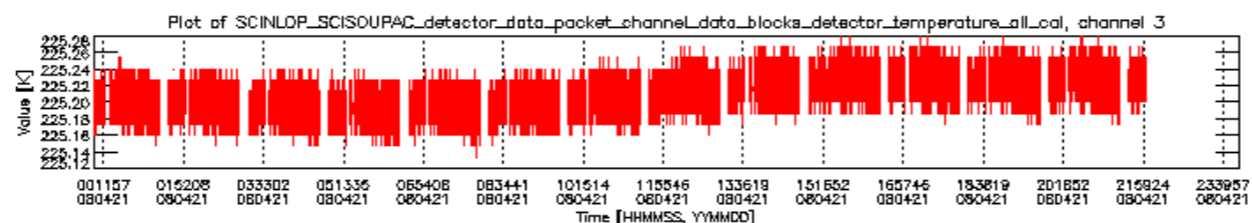
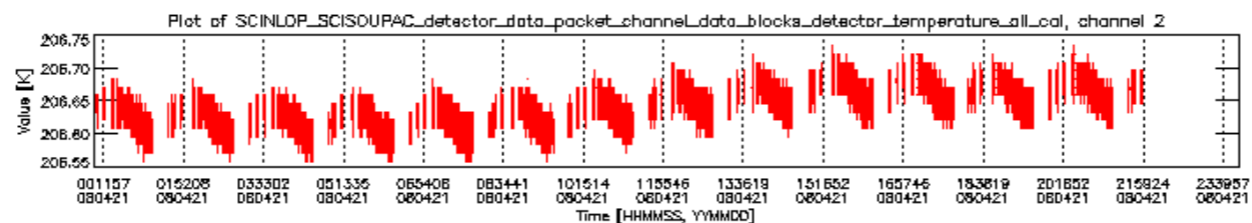
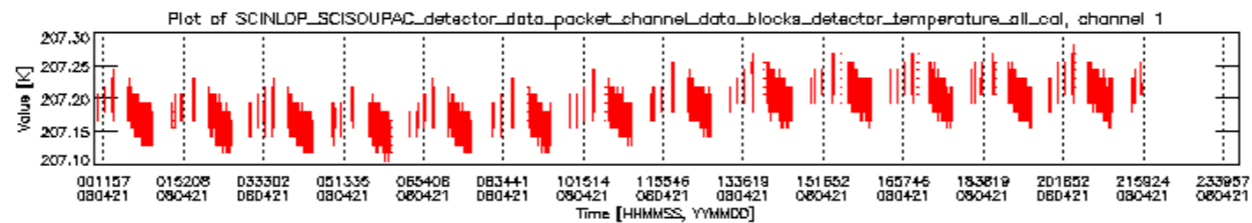




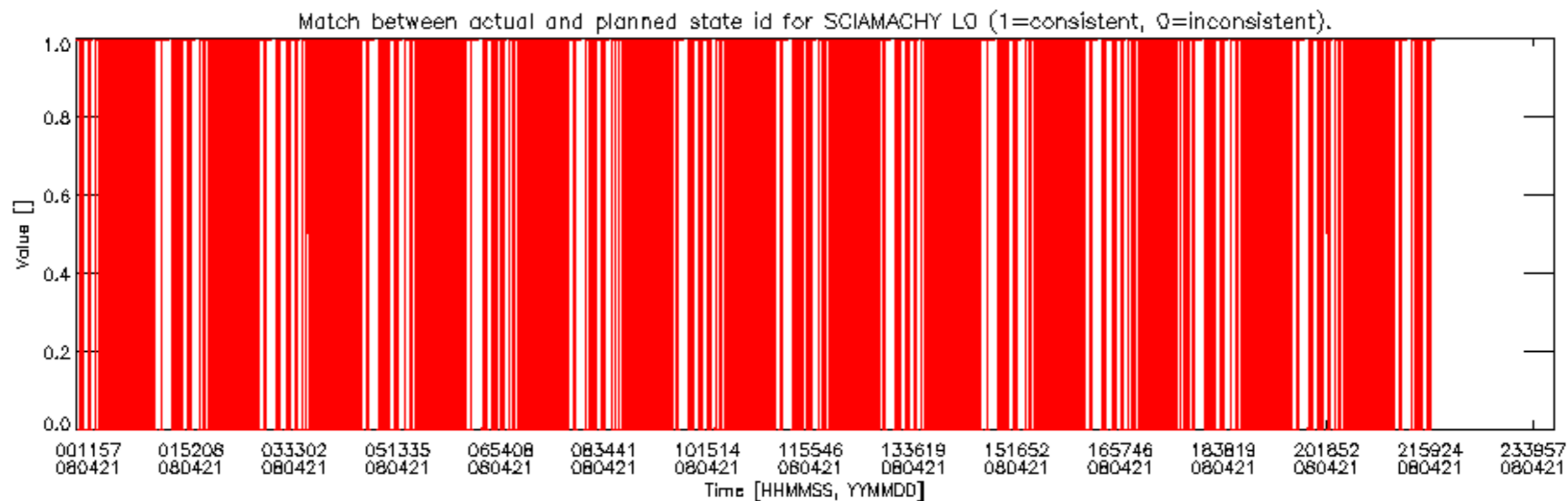
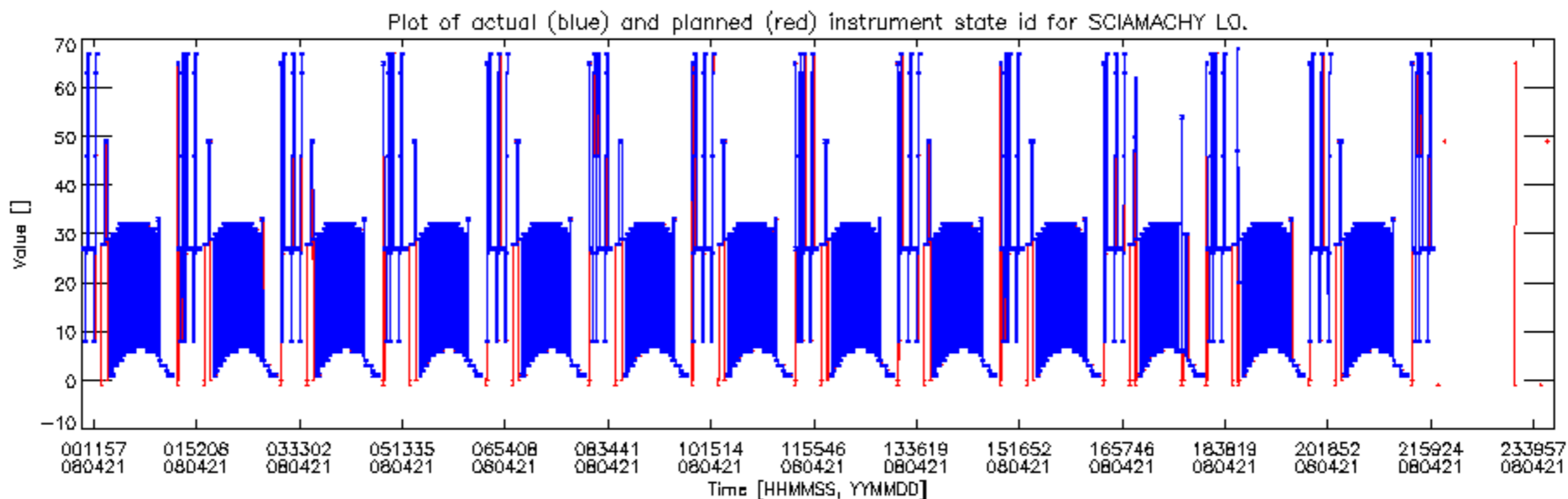




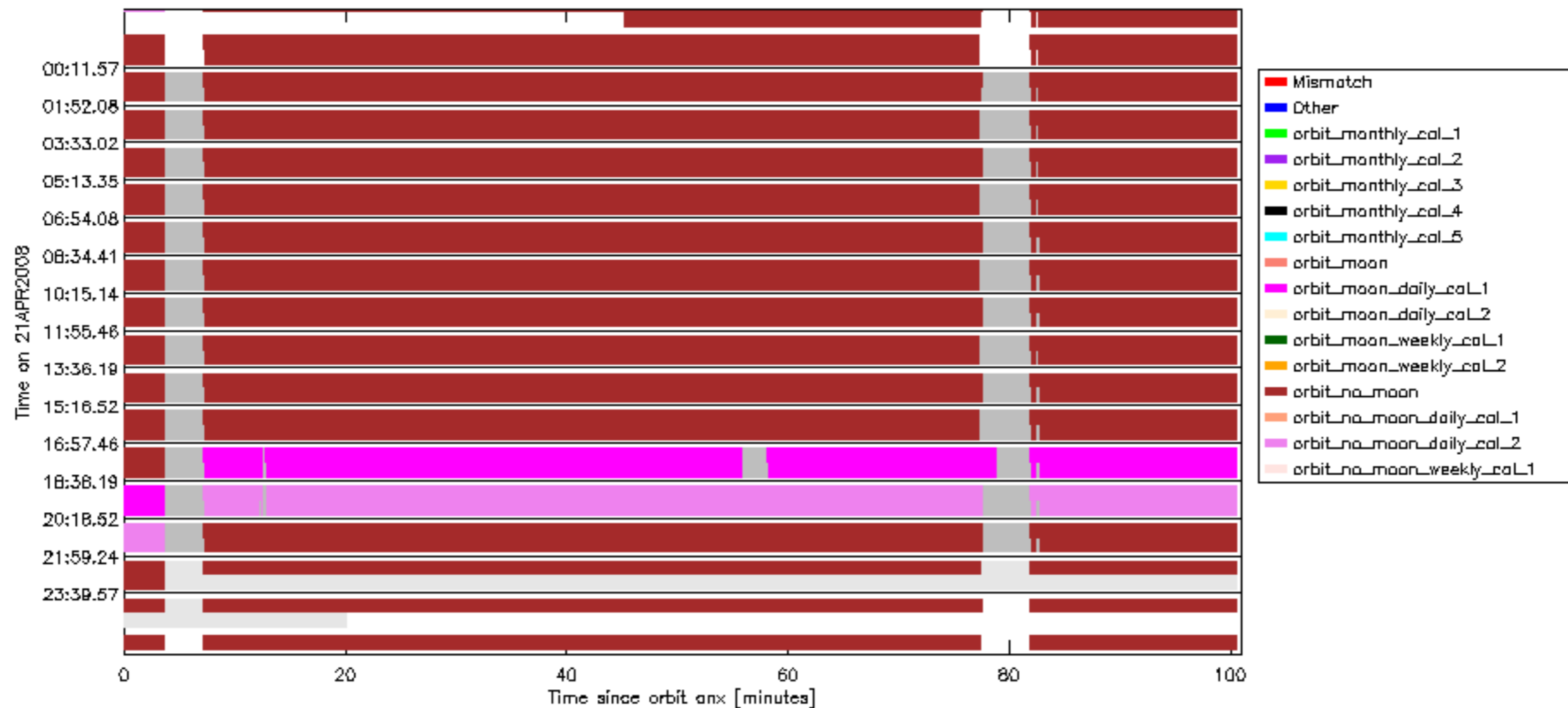


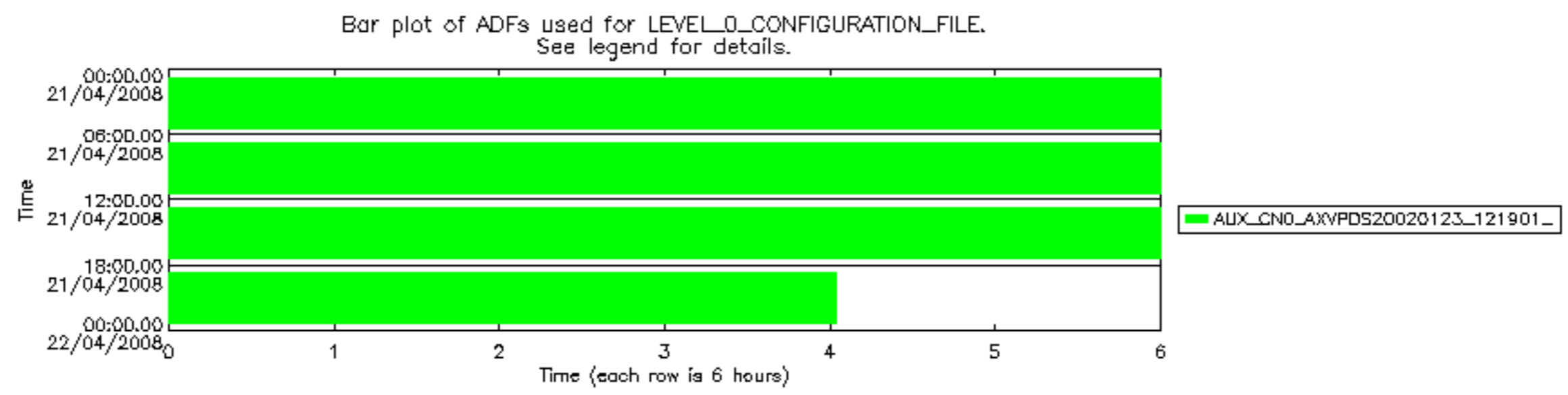






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 21APR2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

