

## 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	v1.4 20100407
Time of report generation	23JUN2011 02:44:58
Data source version	KSPT_L0/4504-N
Processing scope for products	16JUN2011 00:00:00 to 17JUN2011 00:00:00
Start time of first product within scope	16JUN2011 00:00:44
Stop time of last product within scope	17JUN2011 01:05:29
Total number of Level 0 products	15
Number of Level 0 products with errors	0

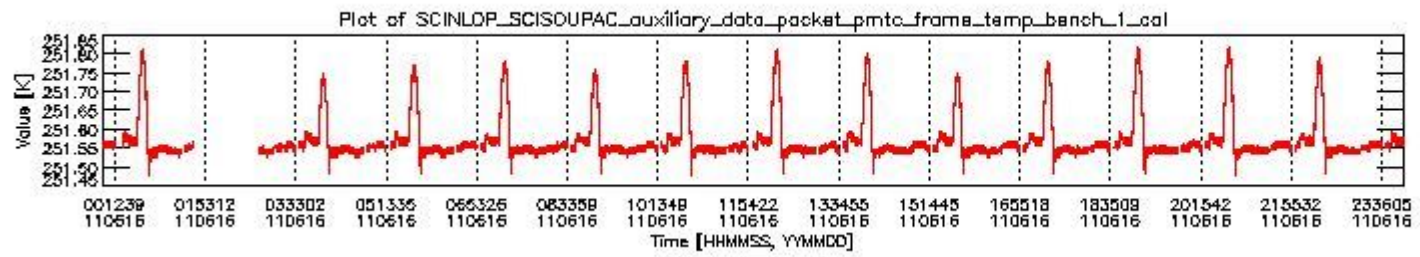
### 0.1.2 Summary per product

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

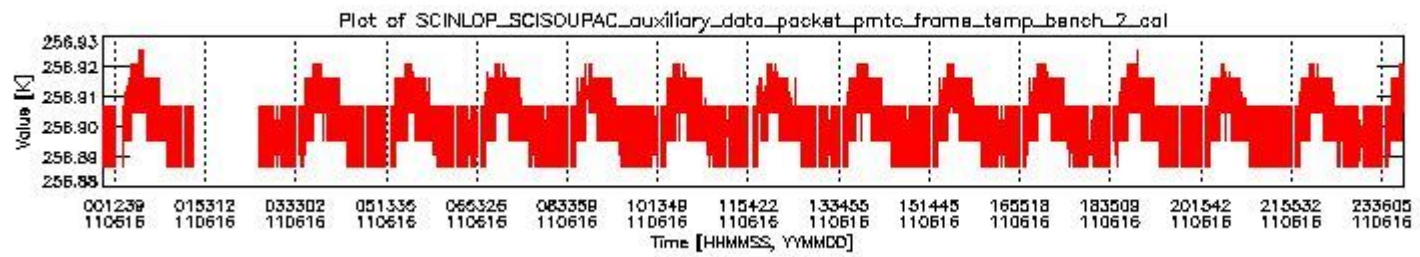
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110616_000044_000059183103_00303_48593_6601.N1	16JUN2011 00:00:44	16JUN2011 01:39:22	0	0	0	0	0
1	SCI_NL__OPNPDE20110616_025203_000061513103_00305_48595_6602.N1	16JUN2011 02:52:03	16JUN2011 04:34:35	0	0	0	0	0
2	SCI_NL__OPNPDE20110616_043326_000060683103_00306_48596_6603.N1	16JUN2011 04:33:26	16JUN2011 06:14:34	0	0	0	0	0
3	SCI_NL__OPNPDK20110616_061434_000040643103_00307_48597_4919.N1	16JUN2011 06:14:34	16JUN2011 07:22:19	0	0	0	0	0
4	SCI_NL__OPNPDK20110616_072219_000061223103_00308_48598_4920.N1	16JUN2011 07:22:19	16JUN2011 09:04:21	0	0	0	0	0
5	SCI_NL__OPNPDK20110616_090327_000060143103_00309_48599_4921.N1	16JUN2011 09:03:27	16JUN2011 10:43:41	0	0	0	0	0
6	SCI_NL__OPNPDK20110616_104246_000058773103_00310_48600_4922.N1	16JUN2011 10:42:46	16JUN2011 12:20:43	0	0	0	0	0
7	SCI_NL__OPNPDK20110616_122043_000059603103_00311_48601_4923.N1	16JUN2011 12:20:43	16JUN2011 14:00:03	0	0	0	0	0
8	SCI_NL__OPNPDK20110616_140003_000058913103_00312_48602_4924.N1	16JUN2011 14:00:03	16JUN2011 15:38:14	0	0	0	0	0
9	SCI_NL__OPNPDK20110616_153705_000059003103_00313_48603_4925.N1	16JUN2011 15:37:05	16JUN2011 17:15:26	0	0	0	0	0
10	SCI_NL__OPNPDK20110616_171432_000058233103_00314_48604_4926.N1	16JUN2011 17:14:32	16JUN2011 18:51:34	0	0	0	0	0
11	SCI_NL__OPNPDK20110616_185134_000060743103_00315_48605_4927.N1	16JUN2011 18:51:34	16JUN2011 20:32:48	0	0	0	0	0
12	SCI_NL__OPNPDE20110616_203154_000043443103_00316_48606_6604.N1	16JUN2011 20:31:54	16JUN2011 21:44:17	0	0	0	0	0
13	SCI_NL__OPNPDE20110616_214210_000062343103_00316_48606_6605.N1	16JUN2011 21:42:10	16JUN2011 23:26:04	0	0	0	0	0
14	SCI_NL__OPNPDE20110616_232517_000060123103_00317_48607_6606.N1	16JUN2011 23:25:17	17JUN2011 01:05:29	0	0	0	0	0

## 0.2 Product Quality Indicators

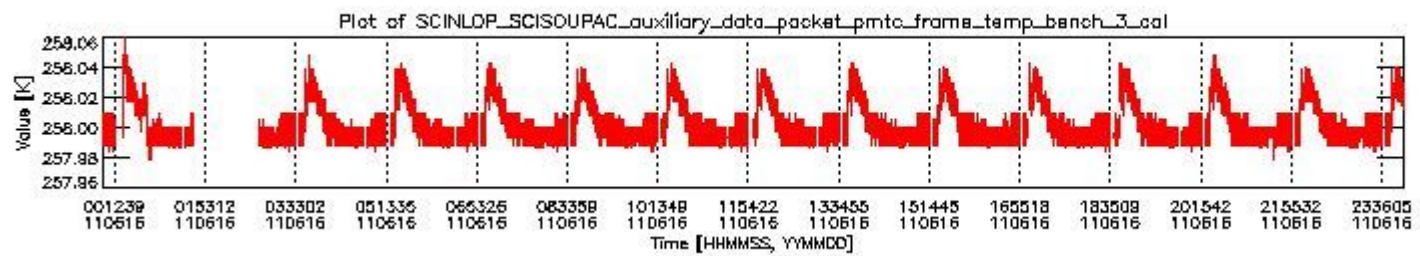
This section shows information about product quality, currently temperatures.



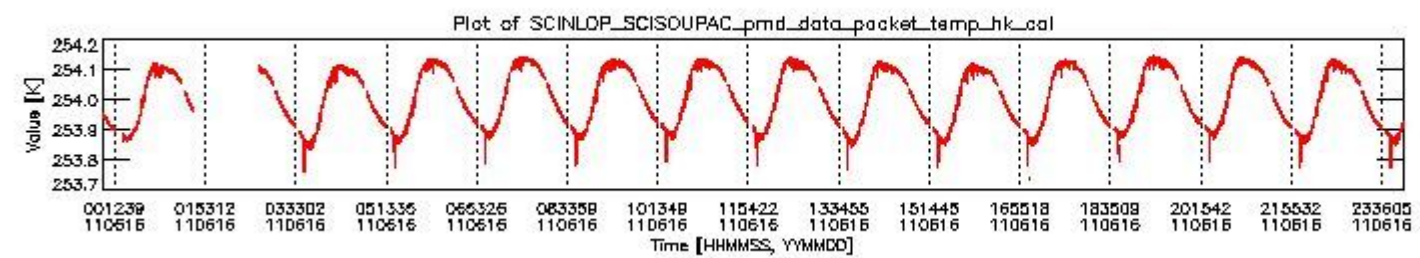
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110616\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110616\_1.PNG

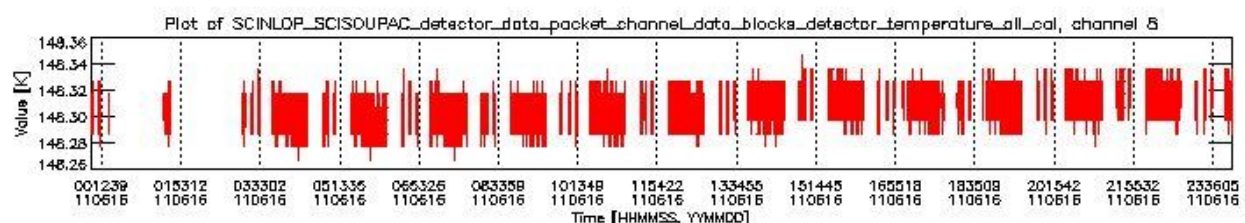
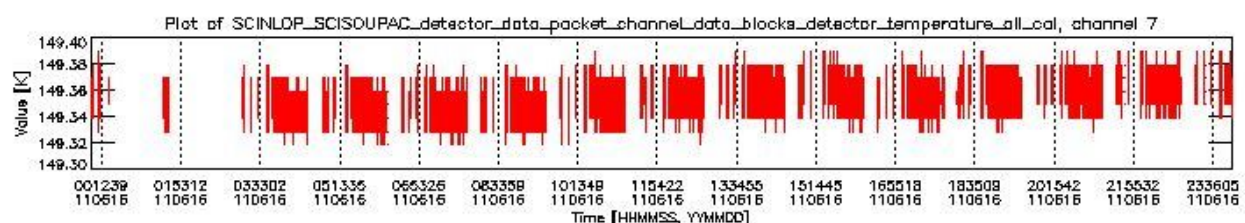
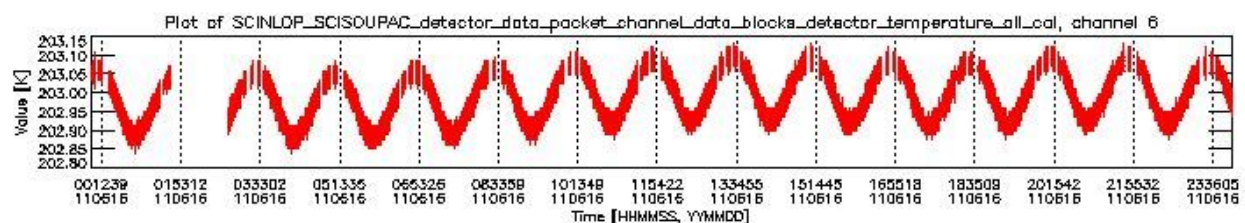
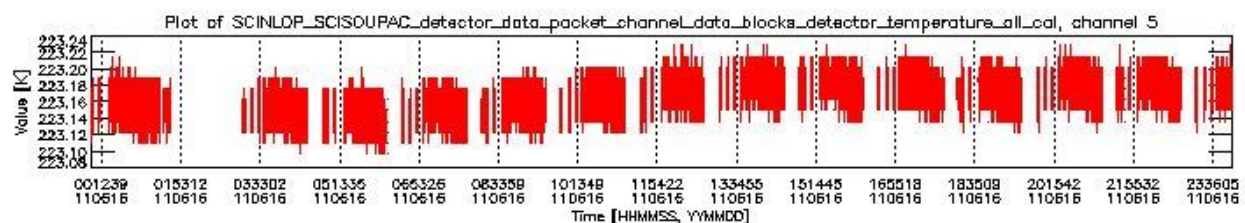
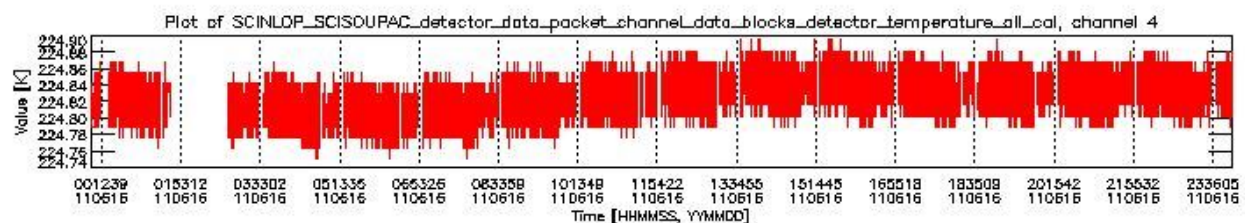
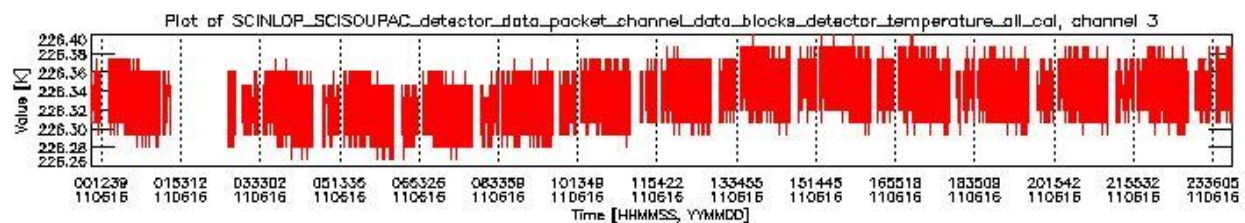
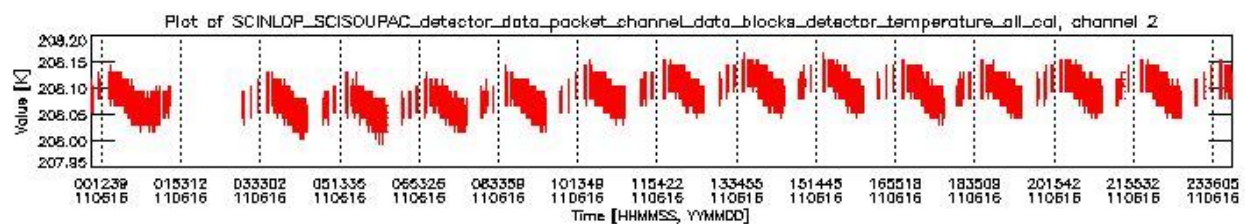
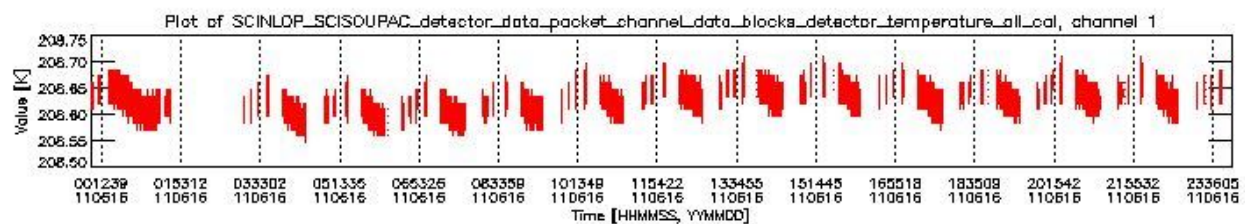


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110616\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110616\_3.PNG



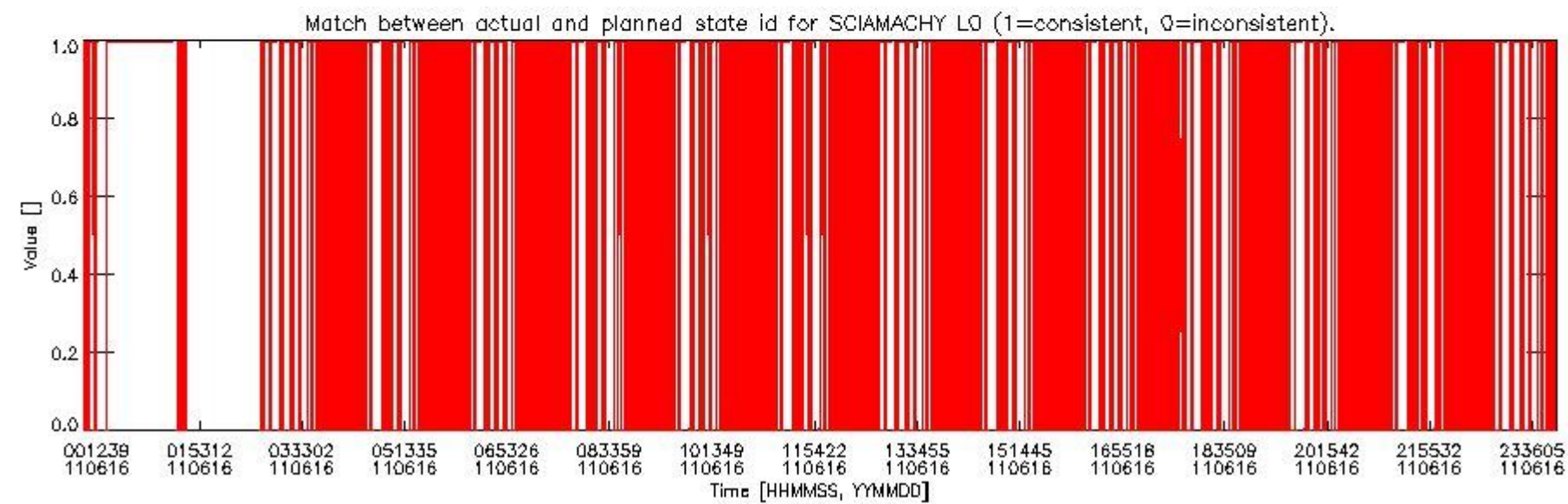
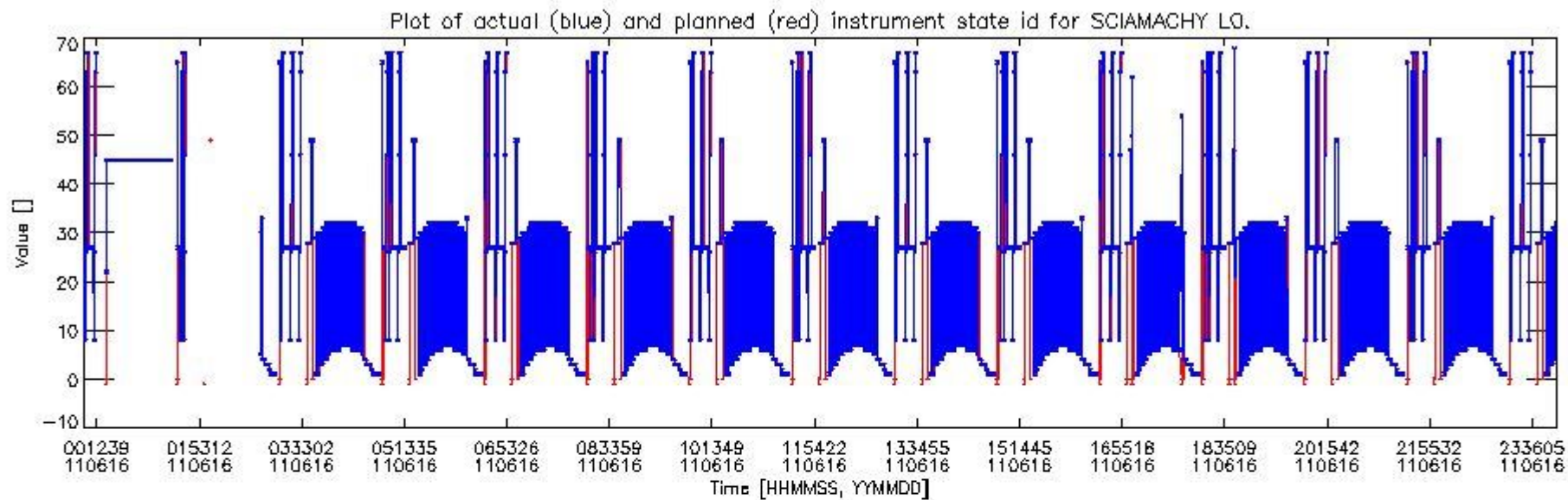


### 0.3 State monitoring

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: **71792**

#	Actual time	Actual value	Planned time	Planned value
0	16JUN2011 00:00:44.885426	8	16JUN2011 00:00:44.885426	27
1	16JUN2011 00:00:44.885428	8	16JUN2011 00:00:44.885428	27
2	16JUN2011 00:00:45.510426	8	16JUN2011 00:00:45.510426	27
3	16JUN2011 00:00:46.010426	8	16JUN2011 00:00:46.010426	27
4	16JUN2011 00:00:46.010428	8	16JUN2011 00:00:46.010428	27
5	16JUN2011 00:00:46.510426	8	16JUN2011 00:00:46.510426	27
6	16JUN2011 00:00:46.510428	8	16JUN2011 00:00:46.510428	27
7	16JUN2011 00:00:47.010426	8	16JUN2011 00:00:47.010426	27
8	16JUN2011 00:00:47.010428	8	16JUN2011 00:00:47.010428	27
9	16JUN2011 00:00:47.510426	8	16JUN2011 00:00:47.510426	27
10	16JUN2011 00:00:47.510428	8	16JUN2011 00:00:47.510428	27
11	16JUN2011 00:00:48.010426	8	16JUN2011 00:00:48.010426	27
12	16JUN2011 00:00:48.010428	8	16JUN2011 00:00:48.010428	27
13	16JUN2011 00:00:48.510426	8	16JUN2011 00:00:48.510426	27
14	16JUN2011 00:00:48.510428	8	16JUN2011 00:00:48.510428	27
15	16JUN2011 00:00:49.010426	8	16JUN2011 00:00:49.010426	27
16	16JUN2011 00:00:49.010428	8	16JUN2011 00:00:49.010428	27
17	16JUN2011 00:00:49.510426	8	16JUN2011 00:00:49.510426	27
18	16JUN2011 00:00:49.510428	8	16JUN2011 00:00:49.510428	27
19	16JUN2011 00:00:49.885426	8	16JUN2011 00:00:49.885426	27
...	...	...	...	...



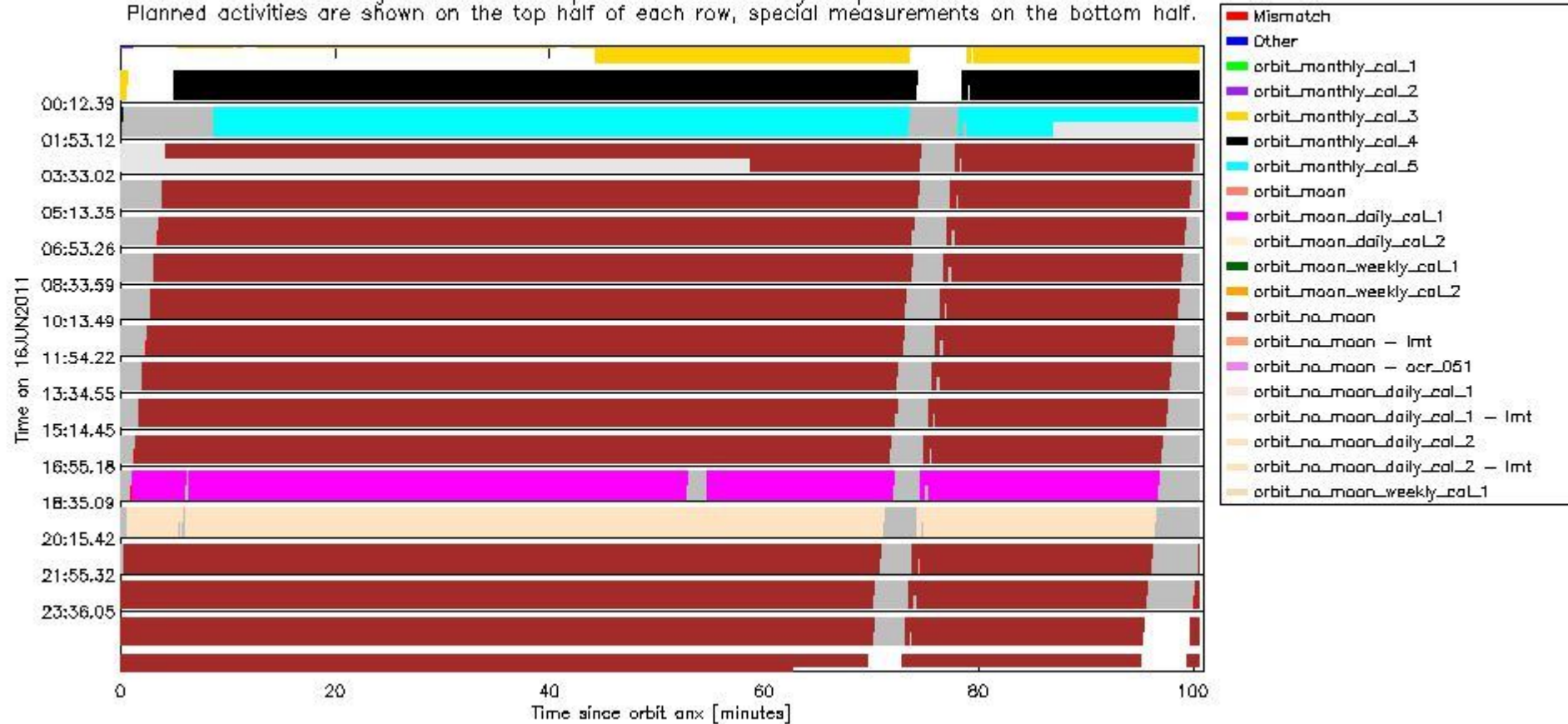
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110616\_5.PNG

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 16JUN2011.  
 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\_4504\_N\_20110616\_6.PNG

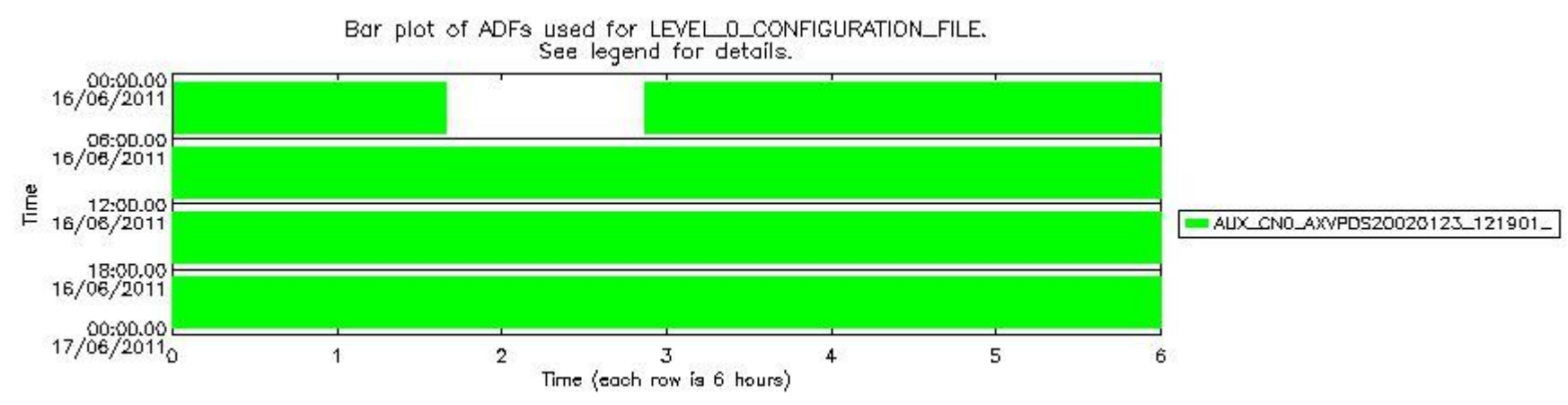
## 0.4 ADF monitoring

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

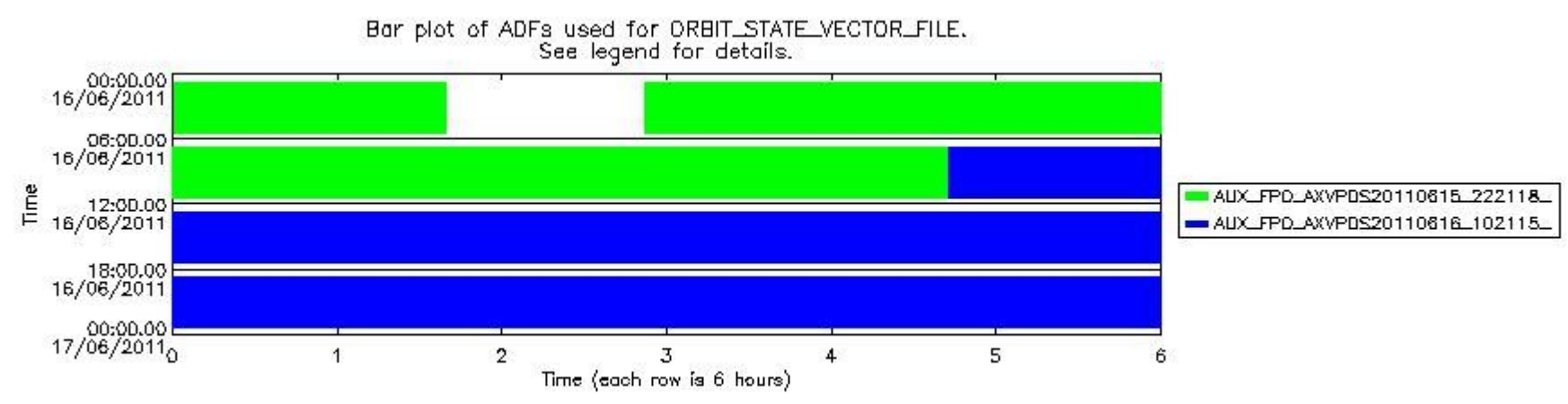
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

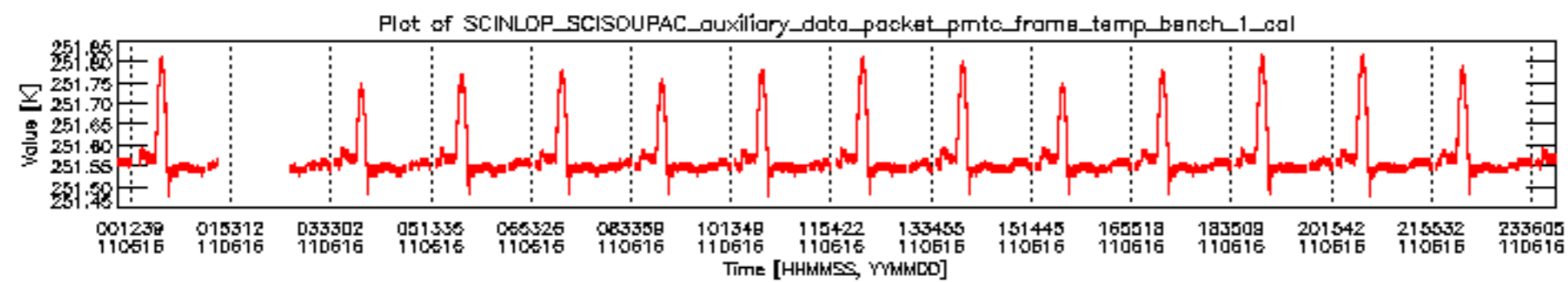
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110615_222118_20110615_073024_20110625_094413
2	AUX_FPO_AXVPDS20110616_102115_20110615_191202_20110625_212548



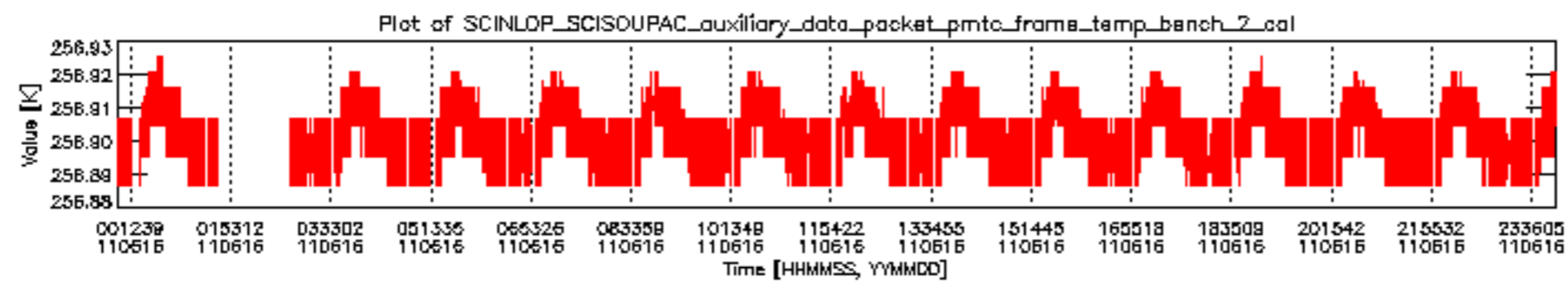
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110616\_7.PNG

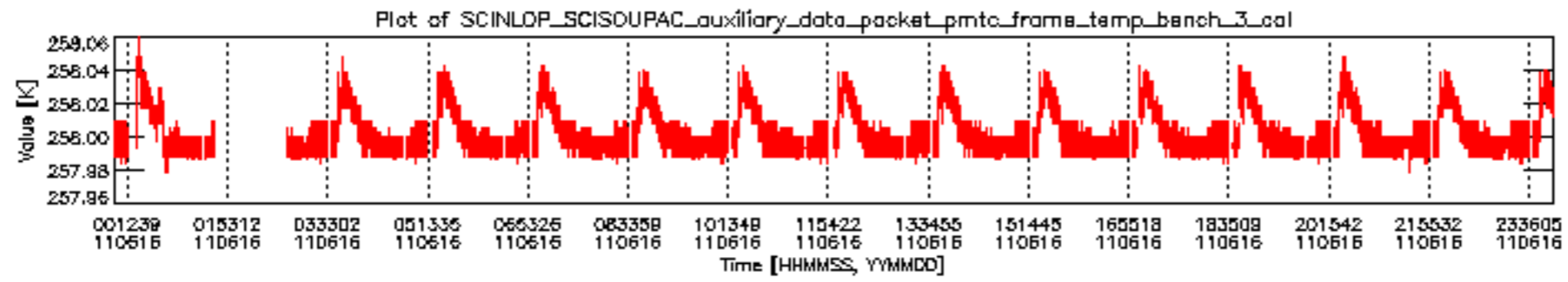


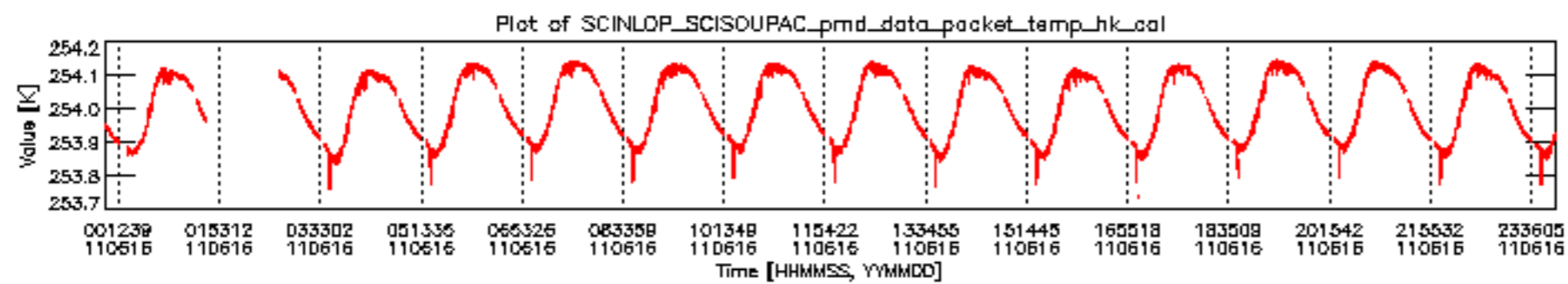
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110616\_8.PNG

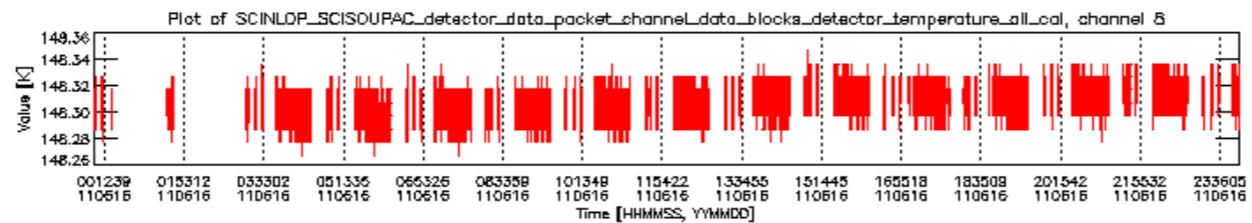
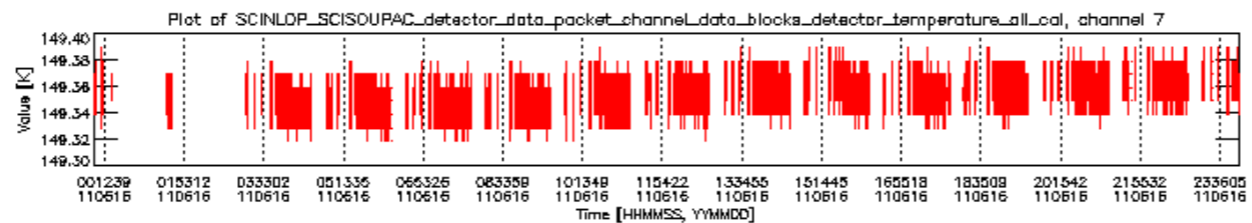
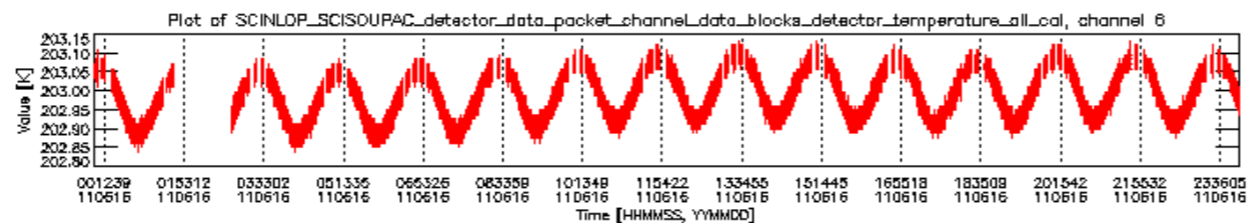
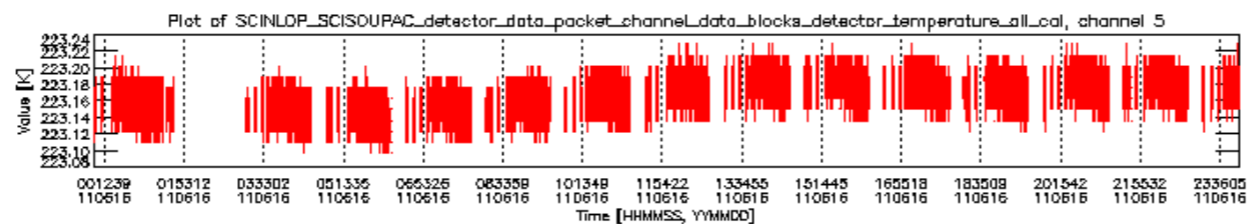
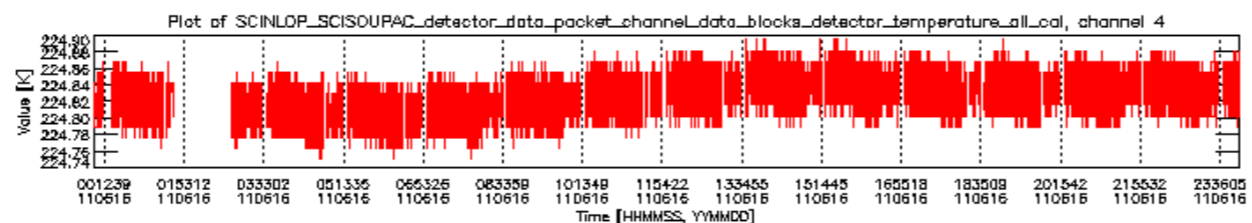
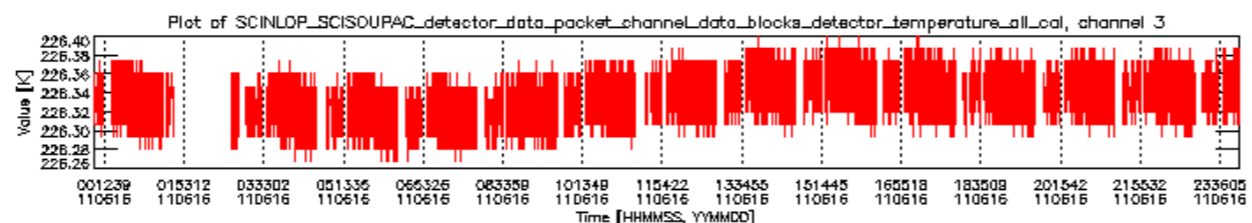
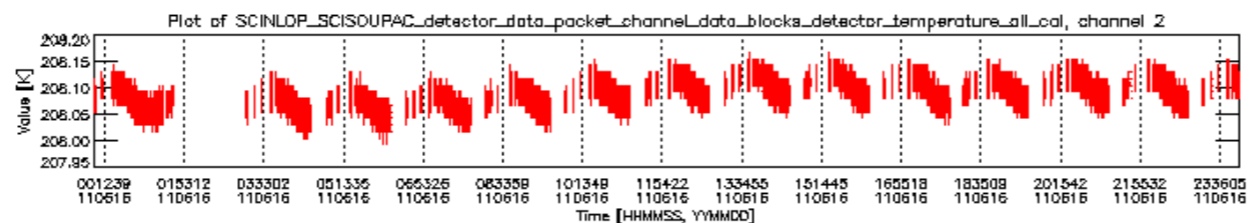
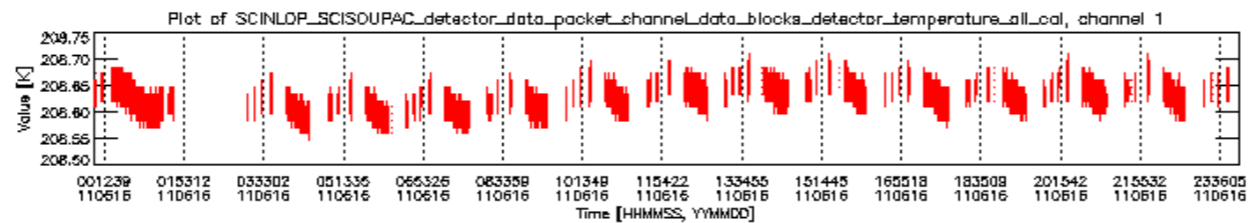




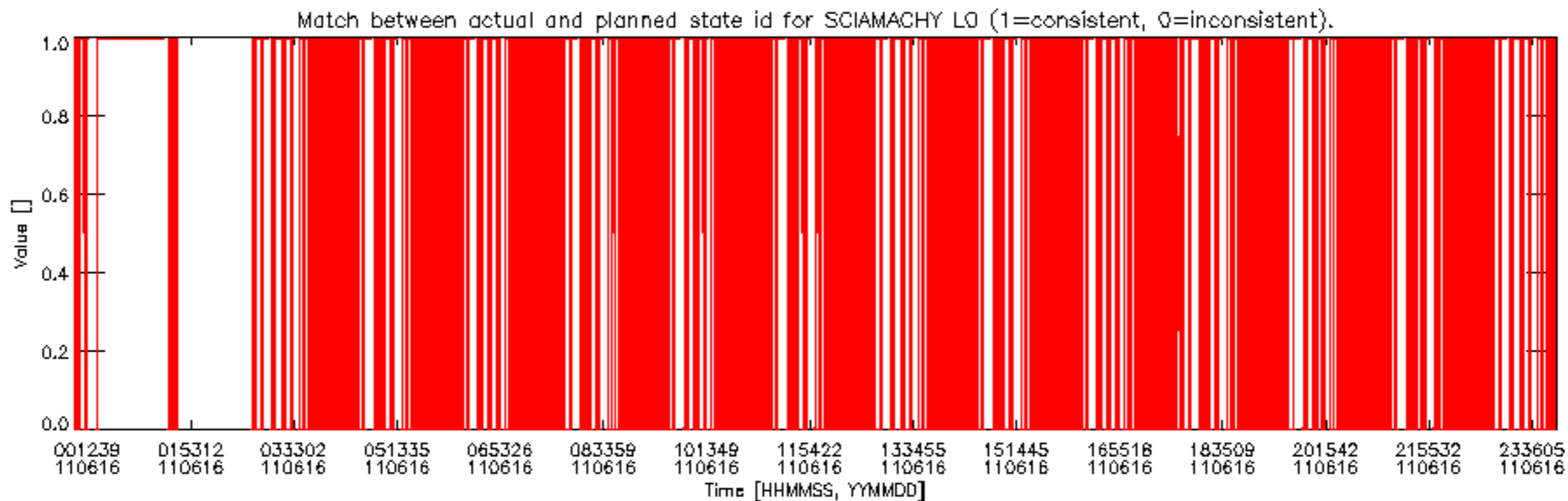
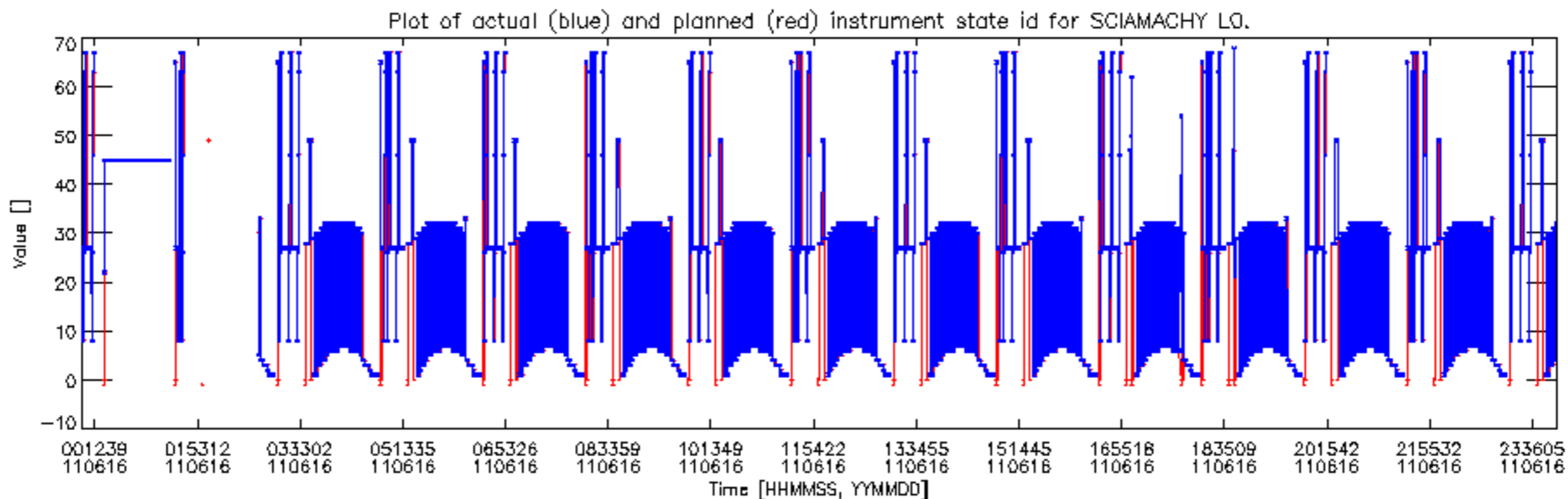




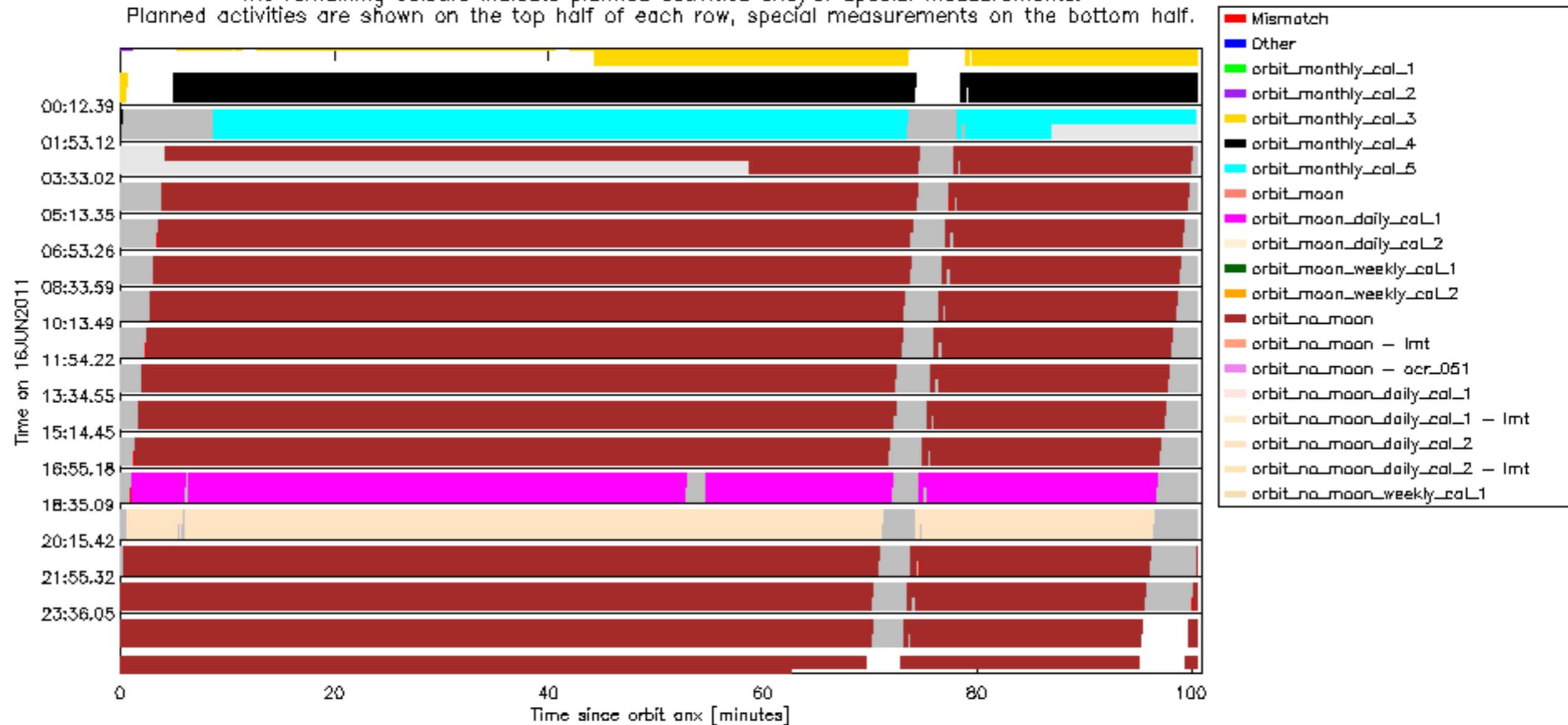


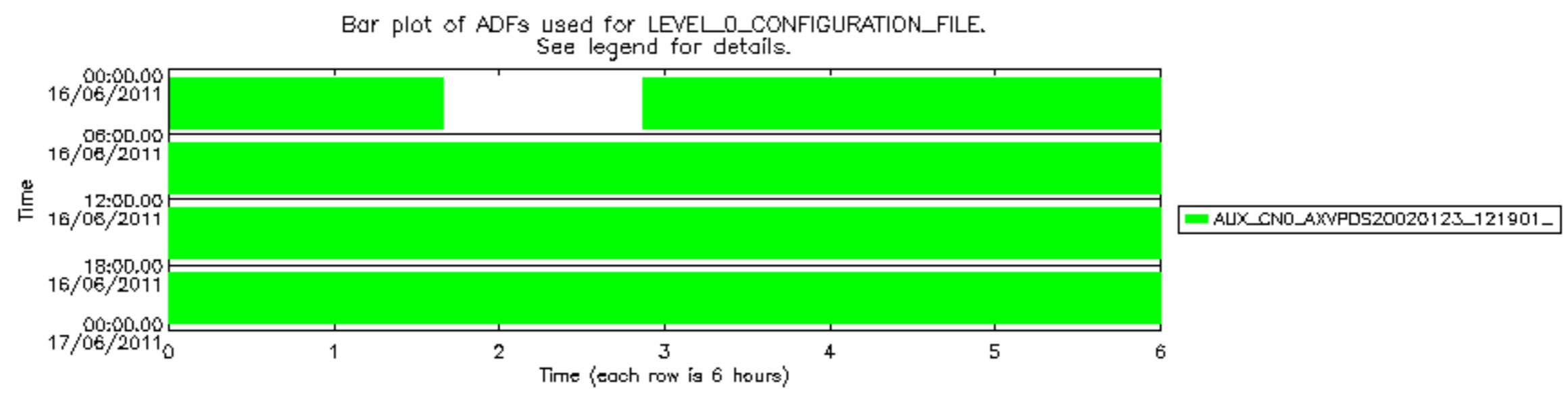






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 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.

