

## 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	v1.4 20100407
Time of report generation	31AUG2011 03:02:05
Data source version	KSPT_L0/4504-N
Processing scope for products	24AUG2011 00:00:00 to 25AUG2011 00:00:00
Start time of first product within scope	24AUG2011 01:12:01
Stop time of last product within scope	25AUG2011 00:35:24
Total number of Level 0 products	14
Number of Level 0 products with errors	0

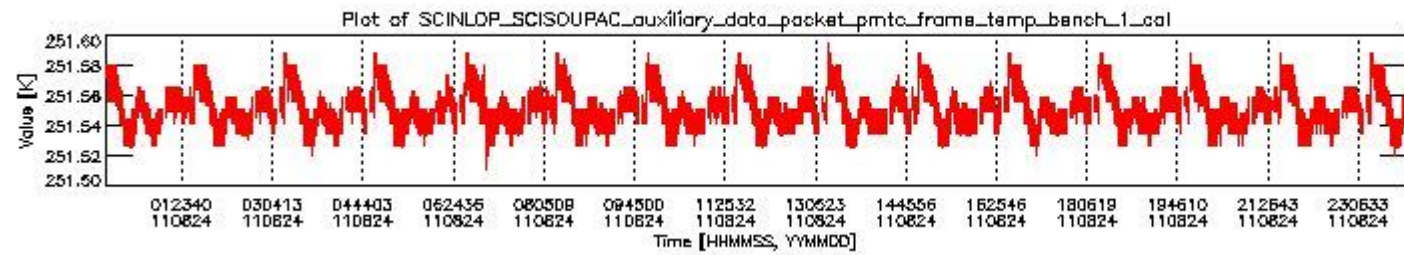
### 0.1.2 Summary per product

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

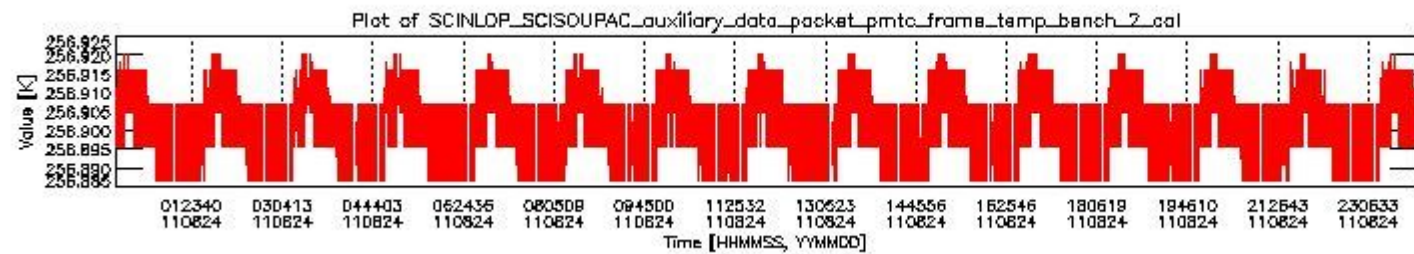
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110824_011201_000102313106_00002_49585_7025.N1	24AUG2011 01:12:01	24AUG2011 04:02:32	0	0	0	0	0
1	SCI_NL__OPNPDE20110824_040232_000061913106_00004_49587_7026.N1	24AUG2011 04:02:32	24AUG2011 05:45:44	0	0	0	0	0
2	SCI_NL__OPNPDE20110824_054435_000060833106_00005_49588_7027.N1	24AUG2011 05:44:35	24AUG2011 07:25:58	0	0	0	0	0
3	SCI_NL__OPNPDK20110824_072504_000039823106_00006_49589_5509.N1	24AUG2011 07:25:04	24AUG2011 08:31:26	0	0	0	0	0
4	SCI_NL__OPNPDK20110824_083126_000061373106_00007_49590_5510.N1	24AUG2011 08:31:26	24AUG2011 10:13:43	0	0	0	0	0
5	SCI_NL__OPNPDK20110824_101343_000059463106_00008_49591_5511.N1	24AUG2011 10:13:43	24AUG2011 11:52:49	0	0	0	0	0
6	SCI_NL__OPNPDK20110824_115249_000059603106_00009_49592_5512.N1	24AUG2011 11:52:49	24AUG2011 13:32:09	0	0	0	0	0
7	SCI_NL__OPNPDK20110824_133115_000058773106_00010_49593_5513.N1	24AUG2011 13:31:15	24AUG2011 15:09:12	0	0	0	0	0
8	SCI_NL__OPNPDK20110824_150818_000059603106_00011_49594_5514.N1	24AUG2011 15:08:18	24AUG2011 16:47:38	0	0	0	0	0
9	SCI_NL__OPNPDK20110824_164535_000059583106_00012_49595_5515.N1	24AUG2011 16:45:35	24AUG2011 18:24:54	0	0	0	0	0
10	SCI_NL__OPNPDK20110824_182345_000059603106_00013_49596_5516.N1	24AUG2011 18:23:45	24AUG2011 20:03:06	0	0	0	0	0
11	SCI_NL__OPNPDE20110824_200211_000037003106_00014_49597_7028.N1	24AUG2011 20:02:11	24AUG2011 21:03:51	0	0	0	0	0
12	SCI_NL__OPNPDE20110824_210831_000064863106_00014_49597_7029.N1	24AUG2011 21:08:31	24AUG2011 22:56:37	0	0	0	0	0
13	SCI_NL__OPNPDE20110824_225553_000059703106_00015_49598_7030.N1	24AUG2011 22:55:53	25AUG2011 00:35:24	0	0	0	0	0

## 0.2 Product Quality Indicators

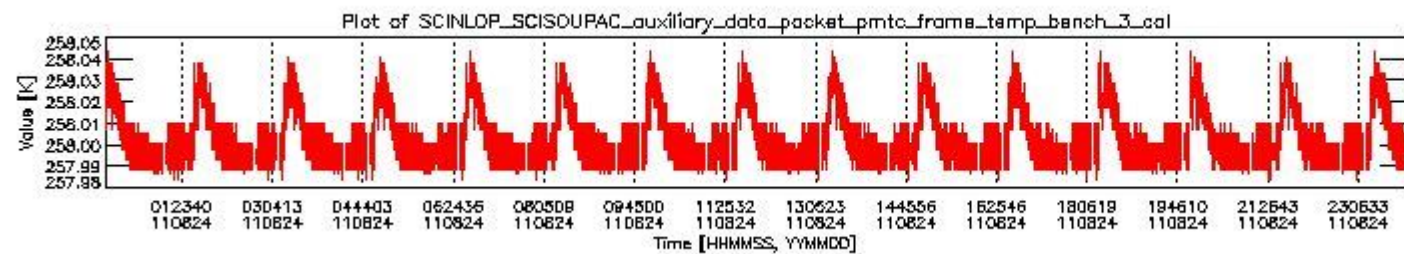
This section shows information about product quality, currently temperatures.



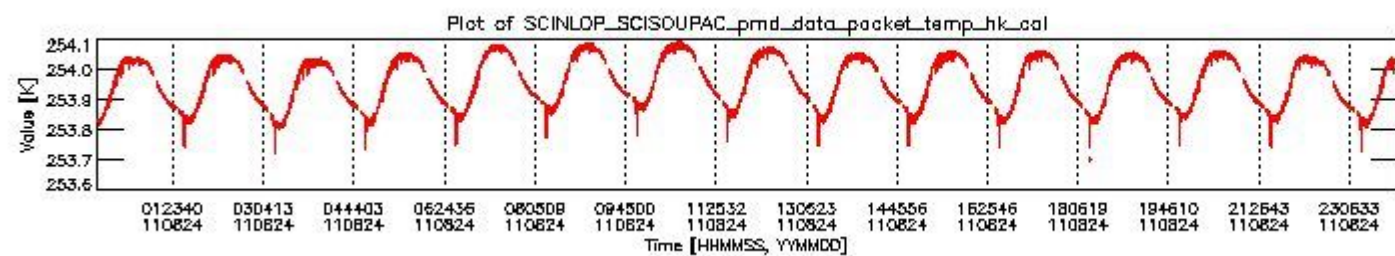
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110824\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110824\_1.PNG

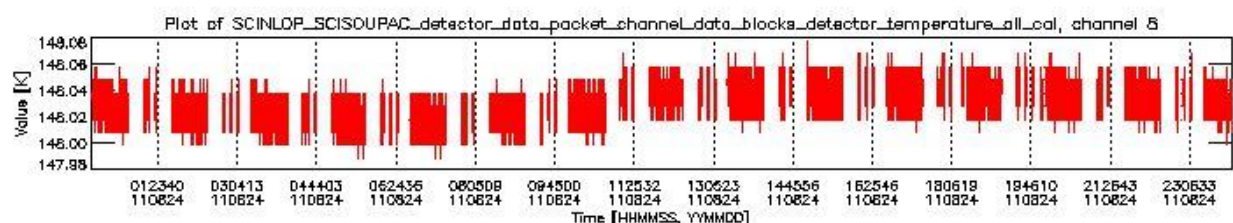
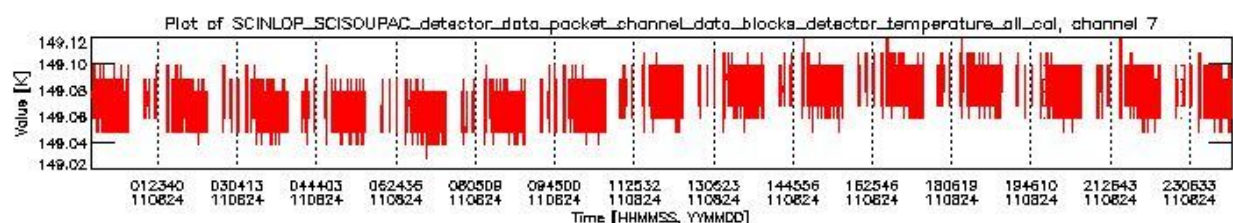
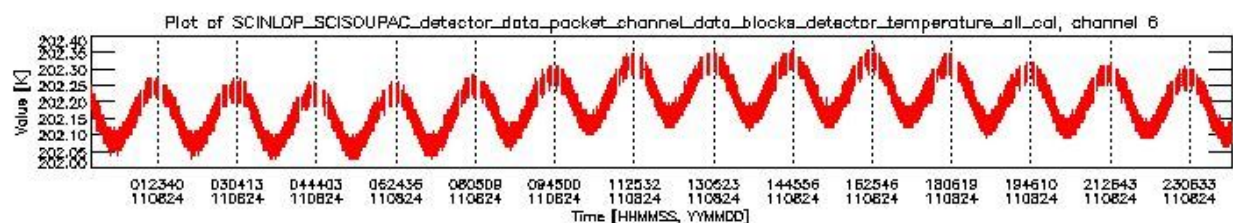
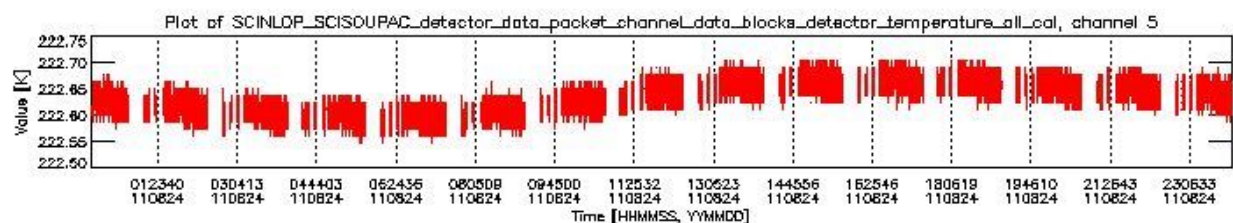
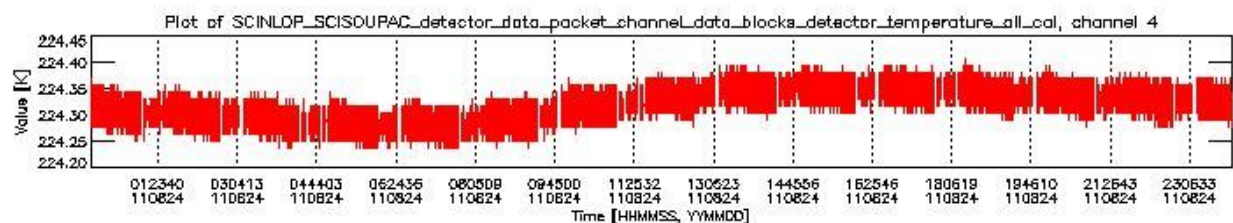
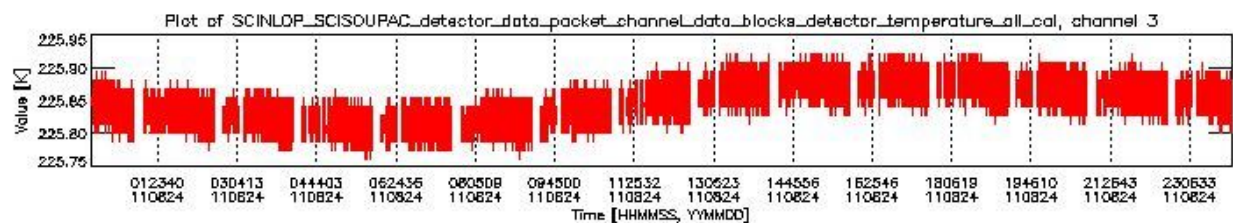
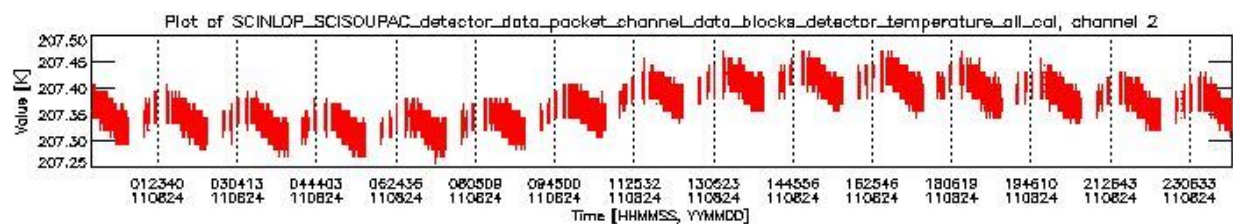
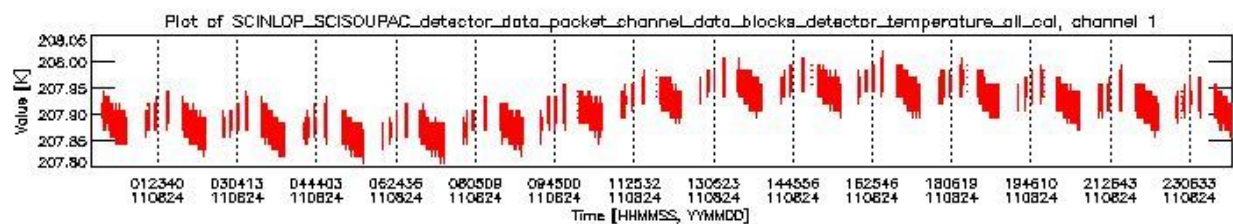


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110824\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110824\_3.PNG



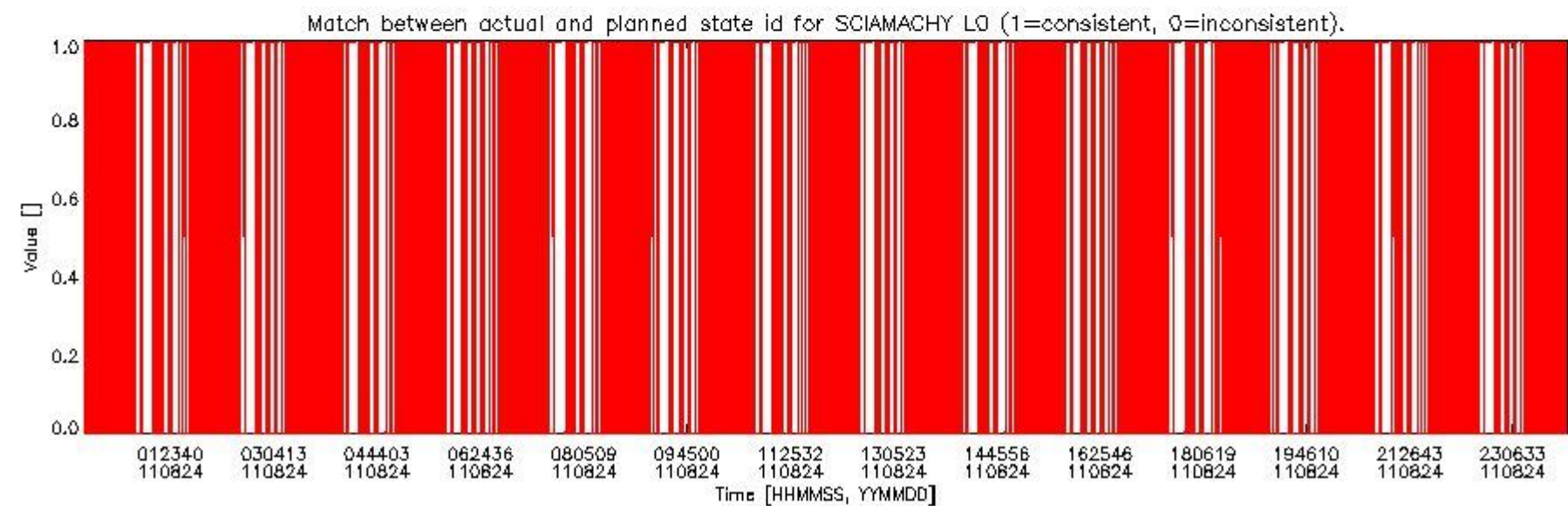
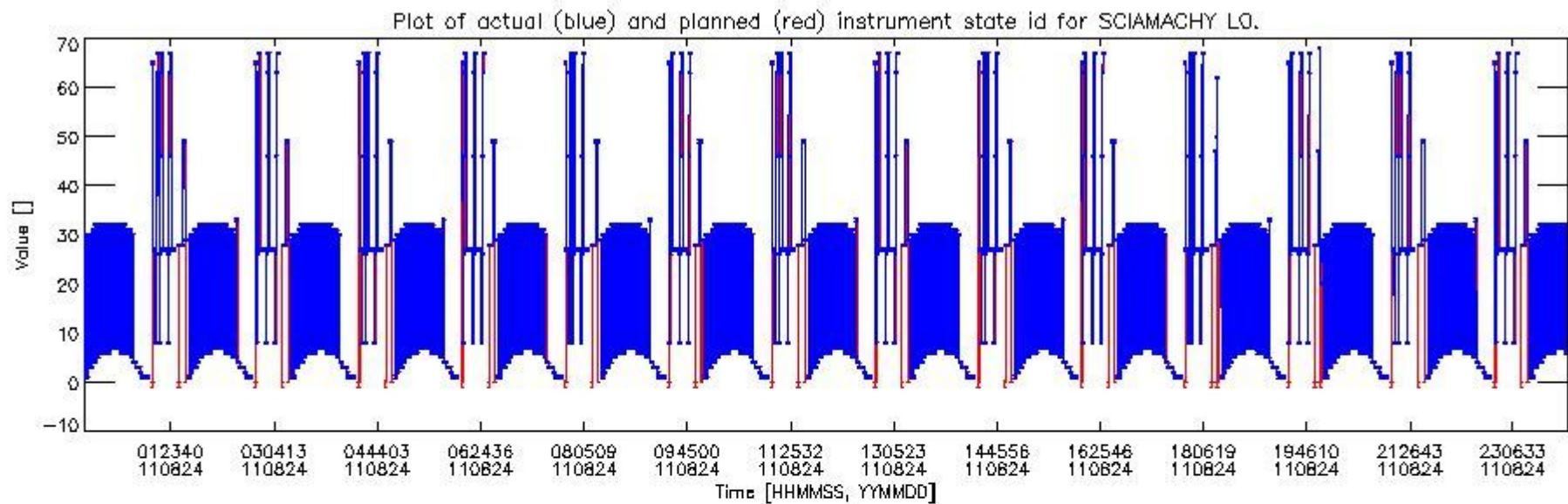


### 0.3 State monitoring

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: **64298**

#	Actual time	Actual value	Planned time	Planned value
0	24AUG2011 00:00:00.576440	1	24AUG2011 00:00:00.576440	29
1	24AUG2011 00:00:00.826440	1	24AUG2011 00:00:00.826440	29
2	24AUG2011 00:00:00.951440	1	24AUG2011 00:00:00.951440	29
3	24AUG2011 00:00:01.076440	1	24AUG2011 00:00:01.076440	29
4	24AUG2011 00:00:01.201440	1	24AUG2011 00:00:01.201440	29
5	24AUG2011 00:00:01.326440	1	24AUG2011 00:00:01.326440	29
6	24AUG2011 00:00:01.451440	1	24AUG2011 00:00:01.451440	29
7	24AUG2011 00:00:01.576440	1	24AUG2011 00:00:01.576440	29
8	24AUG2011 00:00:01.701440	1	24AUG2011 00:00:01.701440	29
9	24AUG2011 00:00:01.826440	1	24AUG2011 00:00:01.826440	29
10	24AUG2011 00:00:01.951440	1	24AUG2011 00:00:01.951440	29
11	24AUG2011 00:00:02.076440	1	24AUG2011 00:00:02.076440	29
12	24AUG2011 00:00:02.201440	1	24AUG2011 00:00:02.201440	29
13	24AUG2011 00:00:02.326440	1	24AUG2011 00:00:02.326440	29
14	24AUG2011 00:00:02.451440	1	24AUG2011 00:00:02.451440	29
15	24AUG2011 00:00:02.576440	1	24AUG2011 00:00:02.576440	29
16	24AUG2011 00:00:02.701440	1	24AUG2011 00:00:02.701440	29
17	24AUG2011 00:00:02.826440	1	24AUG2011 00:00:02.826440	29
18	24AUG2011 00:00:02.951440	1	24AUG2011 00:00:02.951440	29
19	24AUG2011 00:00:03.076440	1	24AUG2011 00:00:03.076440	29
...	...	...	...	...



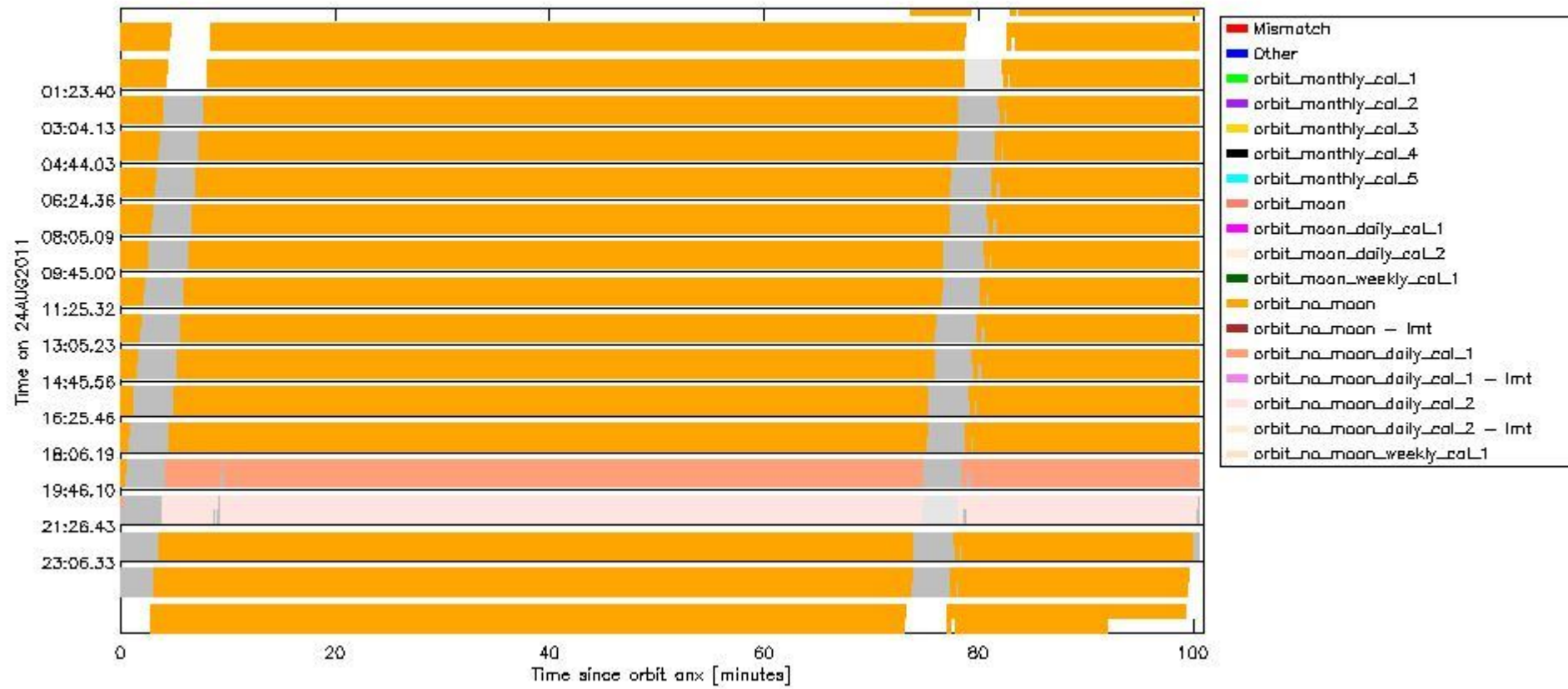
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110824\_5.PNG

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 24AUG2011.  
 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\_20110824\_6.PNG

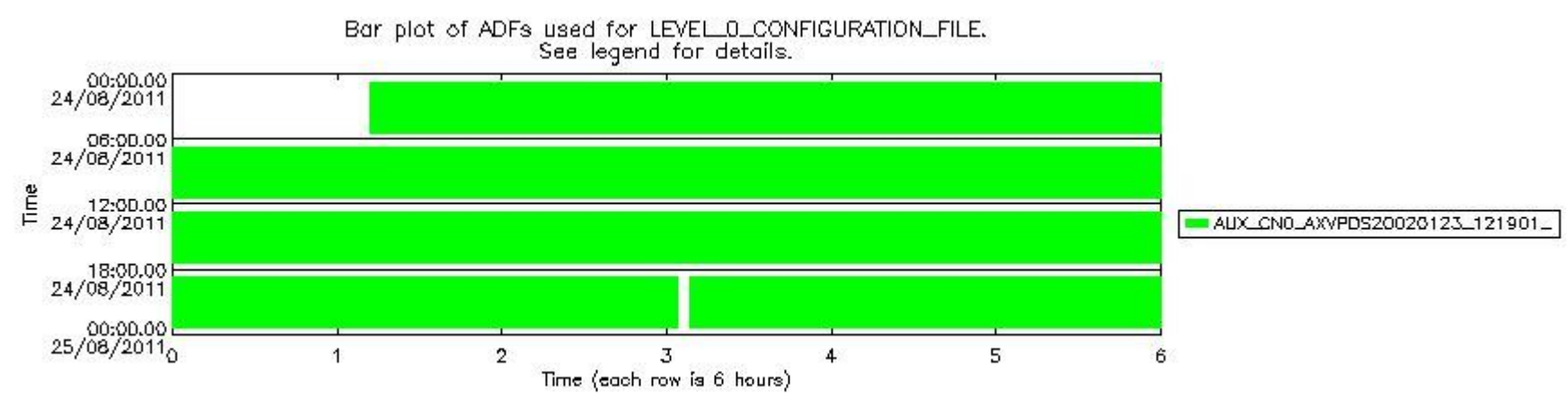
## 0.4 ADF monitoring

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

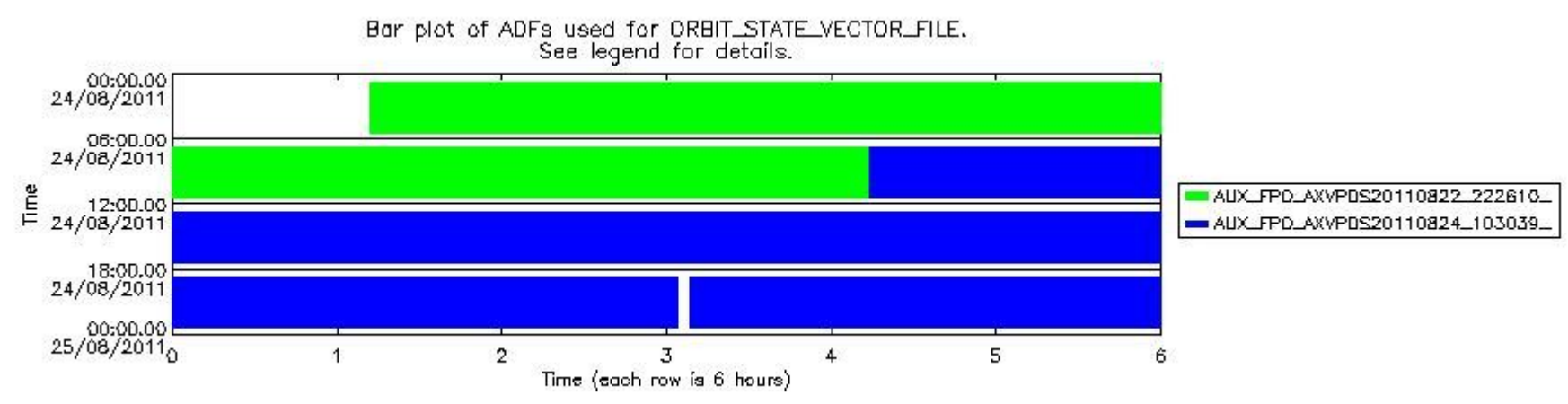
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

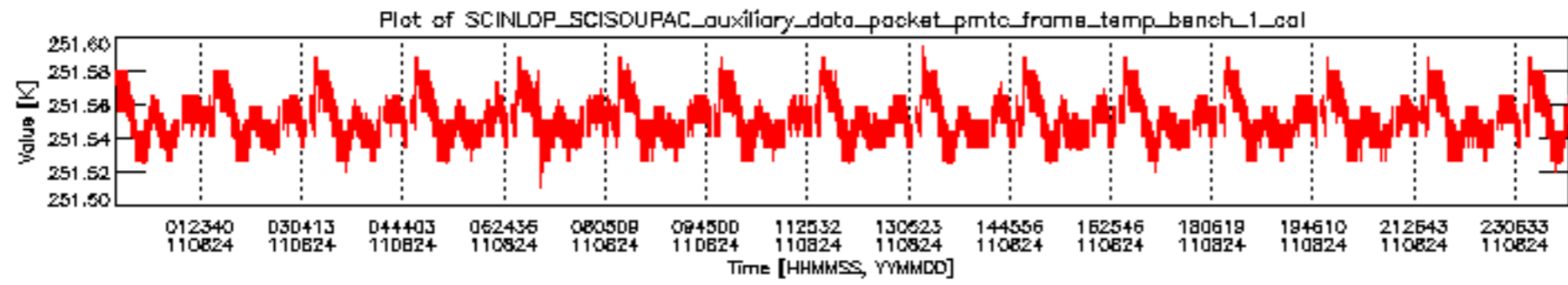
Number	ADF
	<b>CNO (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CNO_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110822_222610_20110822_091818_20110901_095150
2	AUX_FPO_AXVPDS20110824_103039_20110823_184258_20110902_205643



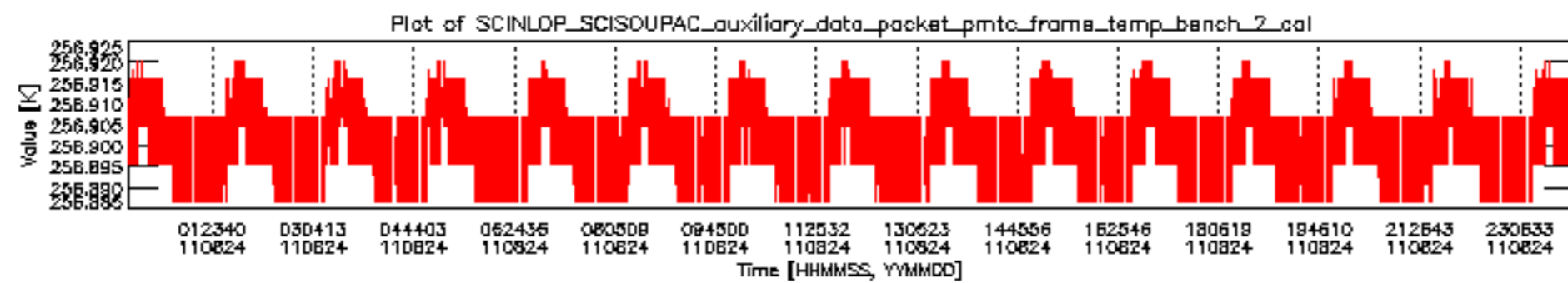
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110824\_7.PNG

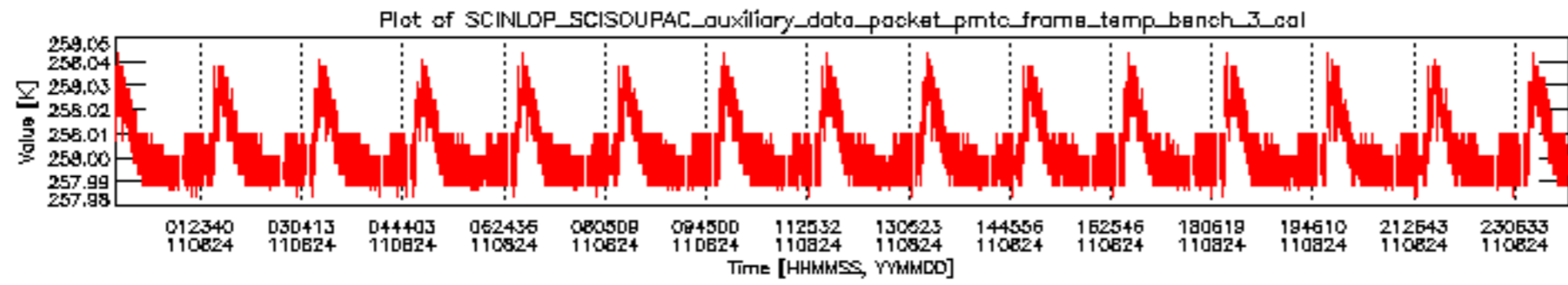


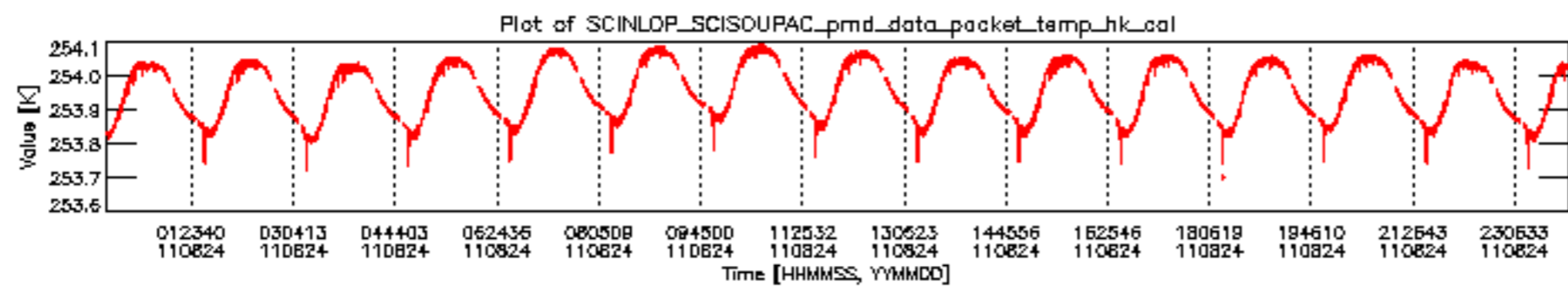
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110824\_8.PNG

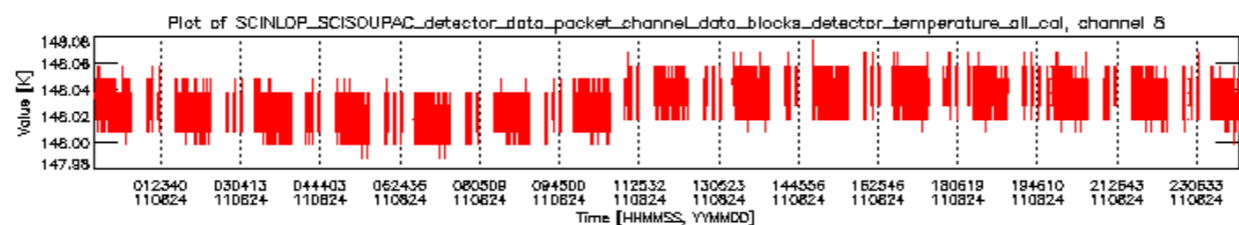
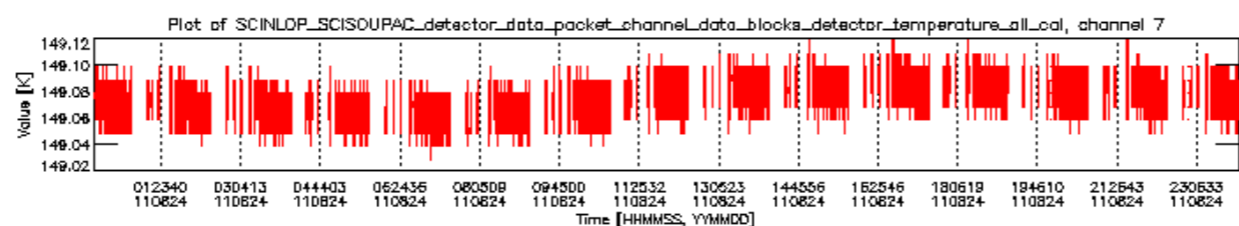
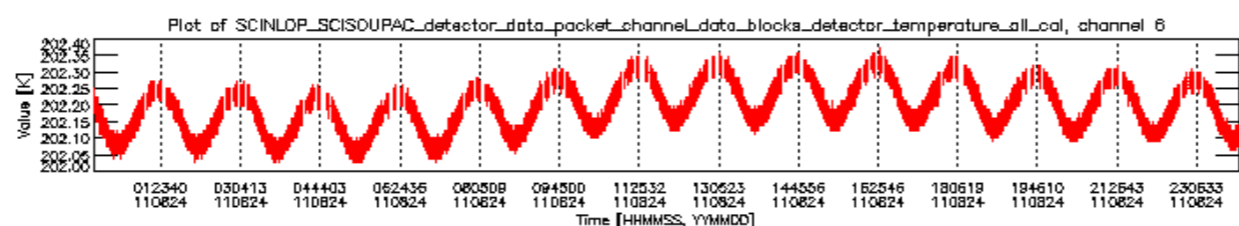
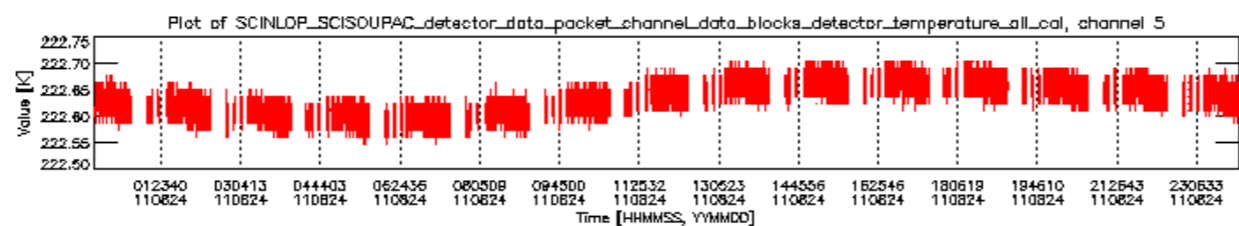
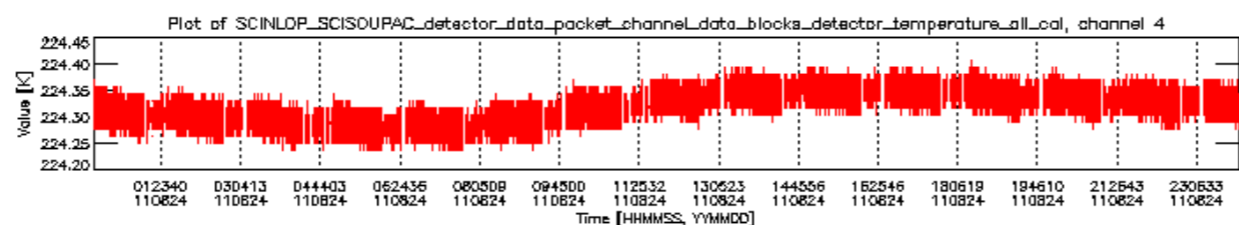
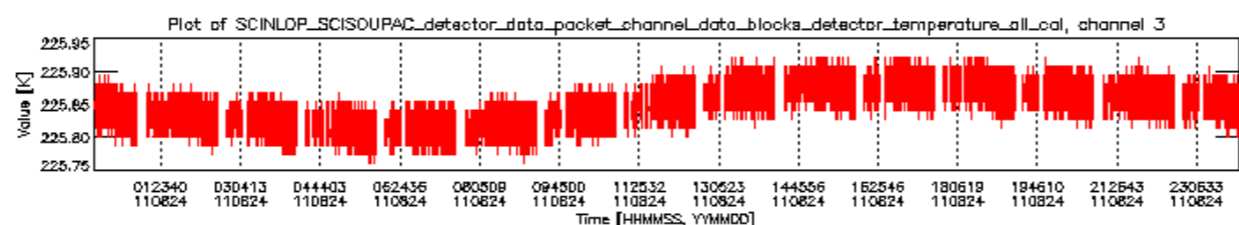
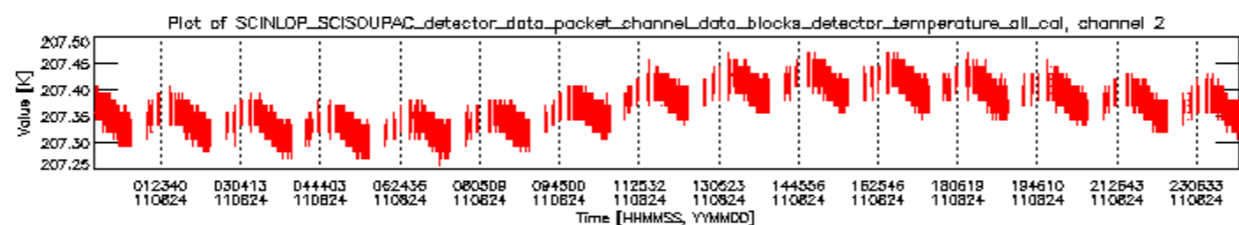
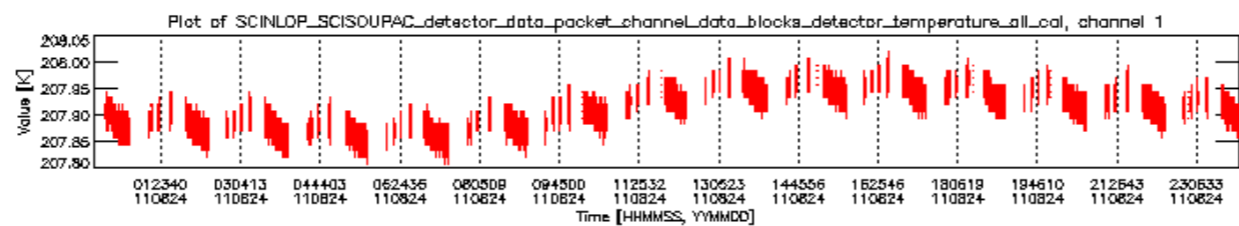




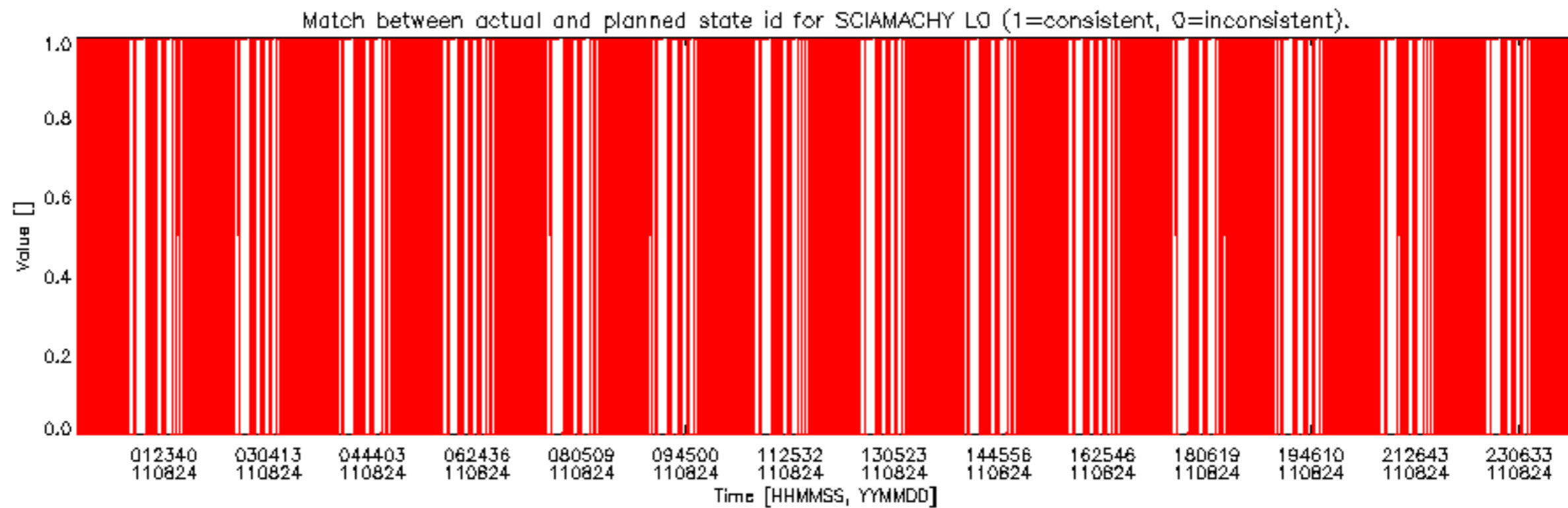
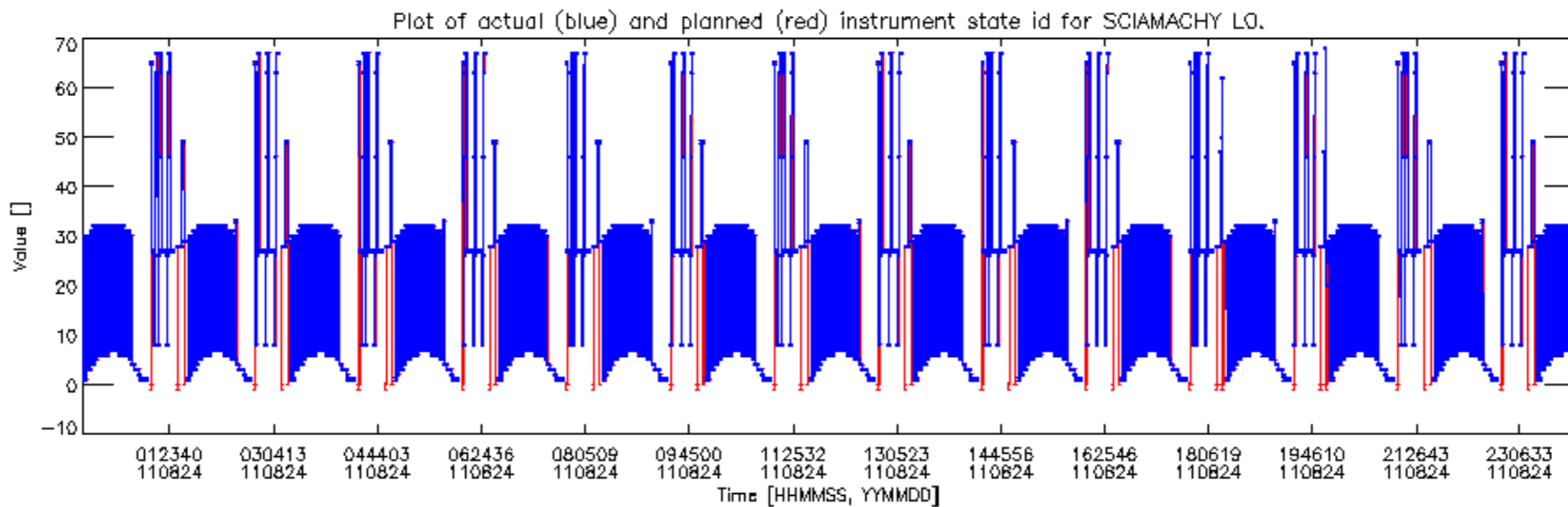




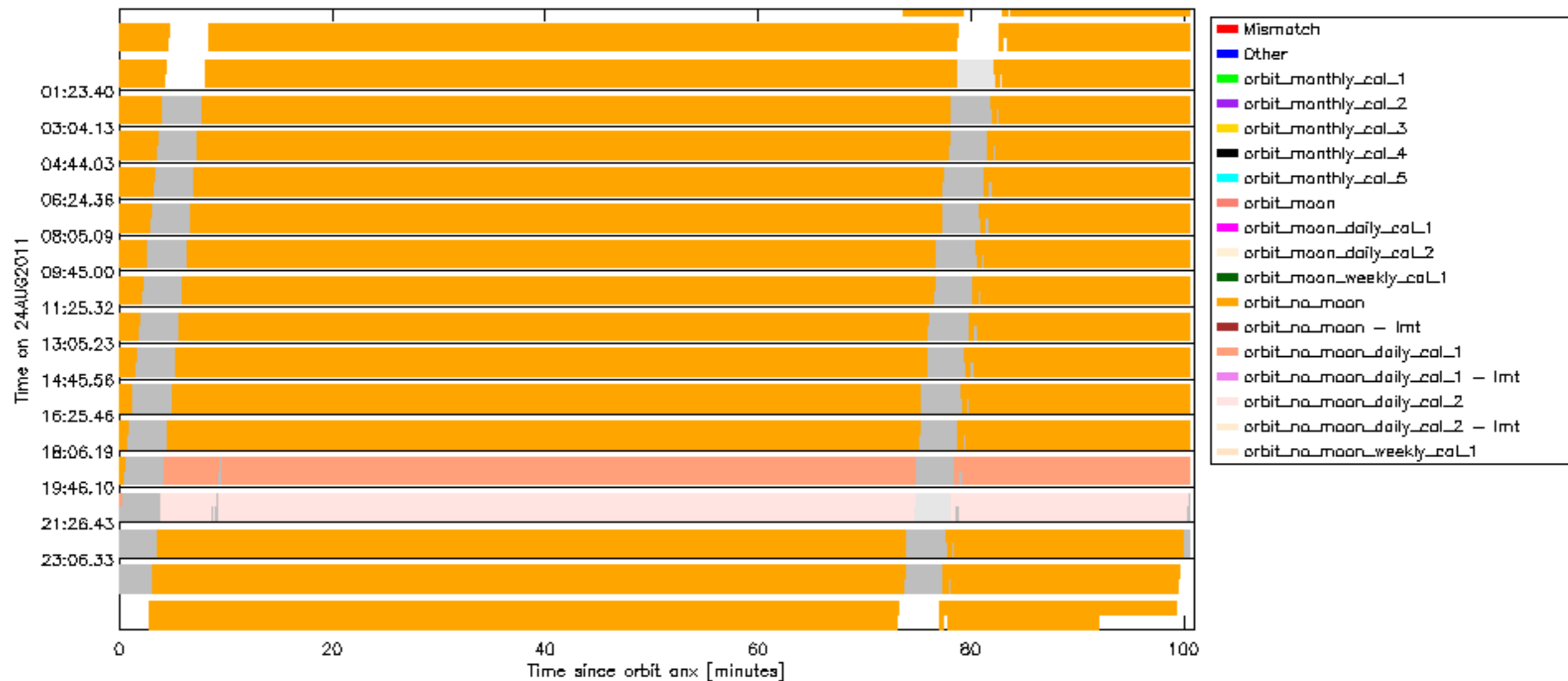


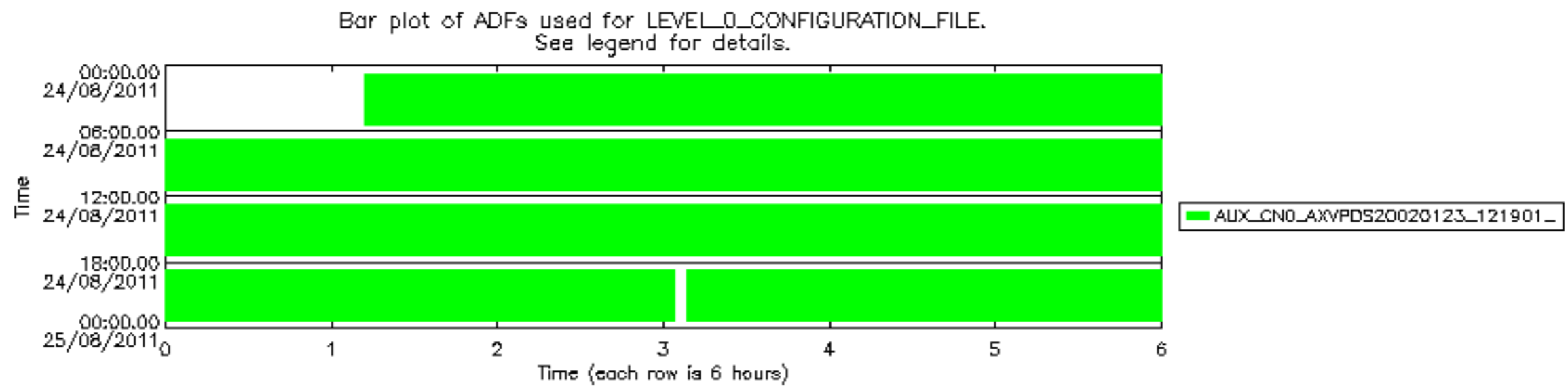






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 24AUG2011.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

