

# 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	16SEP2011 11:31:32
Data source version	KSPT_L0/4504-N
Processing scope for products	09SEP2011 00:00:00 to 10SEP2011 00:00:00
Start time of first product within scope	09SEP2011 08:47:27
Stop time of last product within scope	10SEP2011 00:49:24
Total number of Level 0 products	10
Number of Level 0 products with errors	0

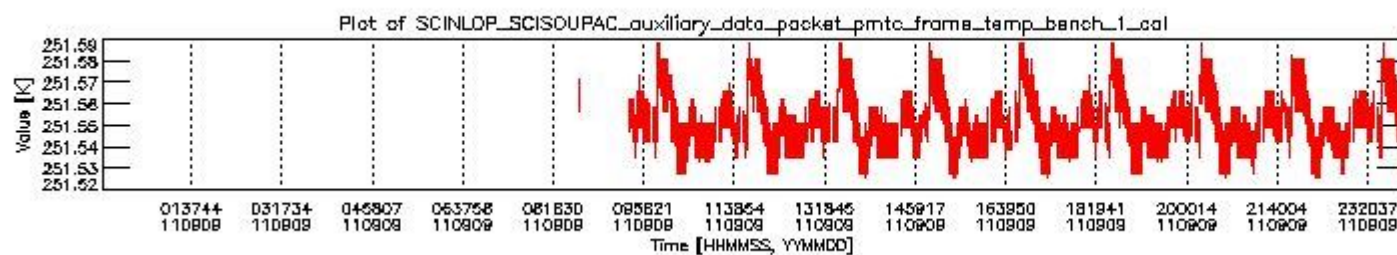
### 0.1.2 Summary per product

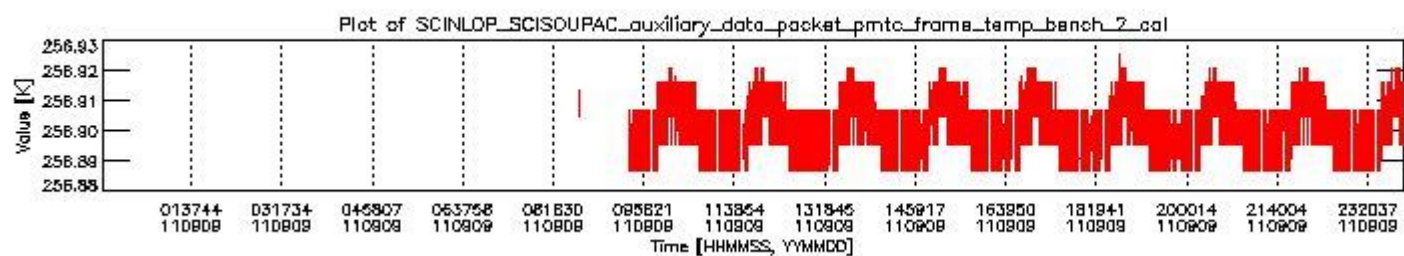
The following table shows a summary for each product used in this report.

#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDK20110909_084727_000059063106_00237_49820_5634.N1	09SEP2011 08:47:27	09SEP2011 10:25:53	0	0	0	0	0
1	SCI_NL__0PNPDK20110909_102553_000060143106_00238_49821_5635.N1	09SEP2011 10:25:53	09SEP2011 12:06:08	0	0	0	0	0
2	SCI_NL__0PNPDK20110909_120513_000059463106_00239_49822_5636.N1	09SEP2011 12:05:13	09SEP2011 13:44:19	0	0	0	0	0
3	SCI_NL__0PNPDK20110909_134325_000057693106_00240_49823_5637.N1	09SEP2011 13:43:25	09SEP2011 15:19:34	0	0	0	0	0
4	SCI_NL__0PNPDK20110909_151825_000060833106_00241_49824_5638.N1	09SEP2011 15:18:25	09SEP2011 16:59:49	0	0	0	0	0
5	SCI_NL__0PNPDK20110909_165840_000058653106_00242_49825_5639.N1	09SEP2011 16:58:40	09SEP2011 18:36:25	0	0	0	0	0
6	SCI_NL__0PNPDK20110909_183450_000059843106_00243_49826_5640.N1	09SEP2011 18:34:50	09SEP2011 20:14:34	0	0	0	0	0
7	SCI_NL__0PNPDE20110909_201314_000044173106_00244_49827_7115.N1	09SEP2011 20:13:14	09SEP2011 21:26:51	0	0	0	0	0
8	SCI_NL__0PNPDE20110909_212523_000060953106_00244_49827_7116.N1	09SEP2011 21:25:23	09SEP2011 23:06:58	0	0	0	0	0
9	SCI_NL__0PNPDE20110909_230658_000061473106_00245_49828_7117.N1	09SEP2011 23:06:58	10SEP2011 00:49:24	0	0	0	0	0

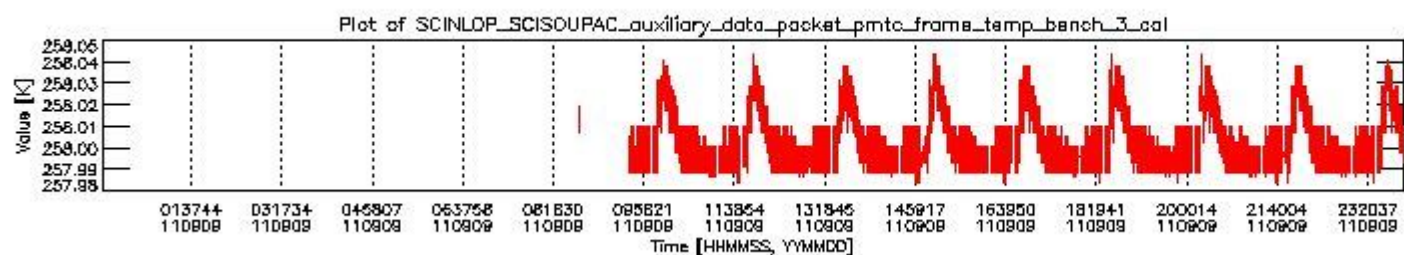
## 0.2 Product Quality Indicators

This section shows information about product quality, currently temperatures.

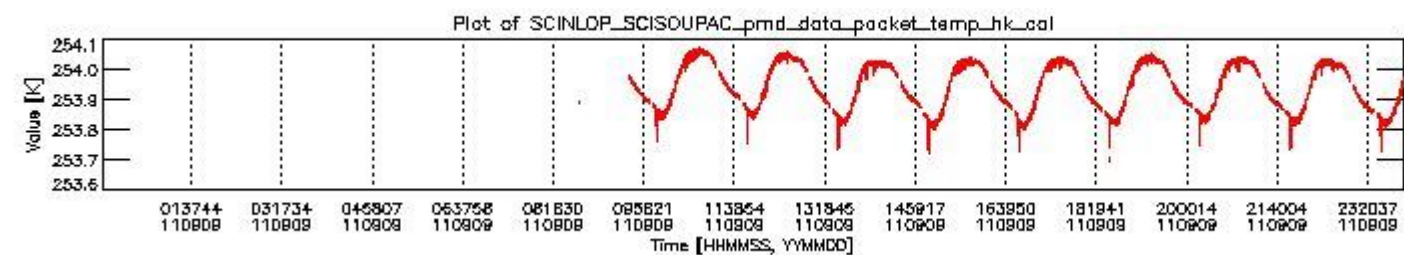




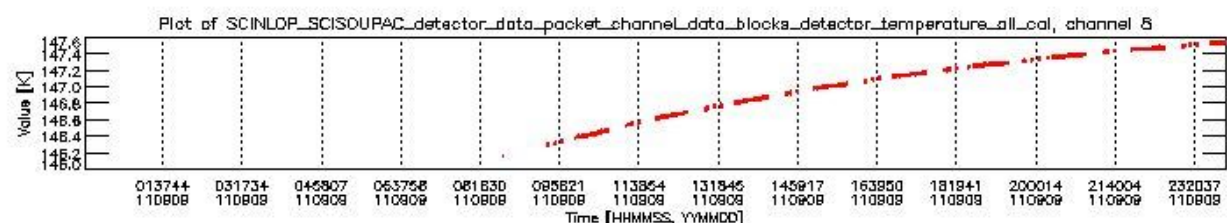
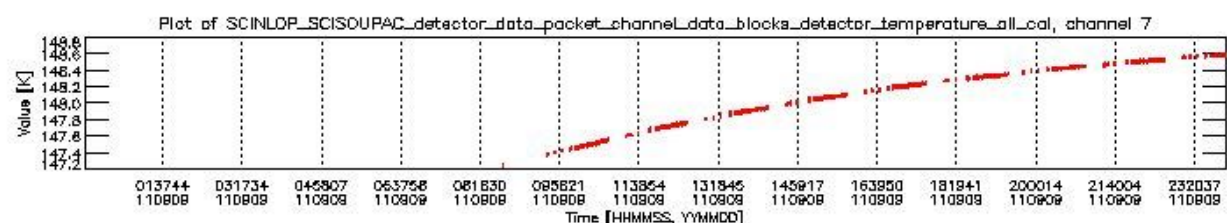
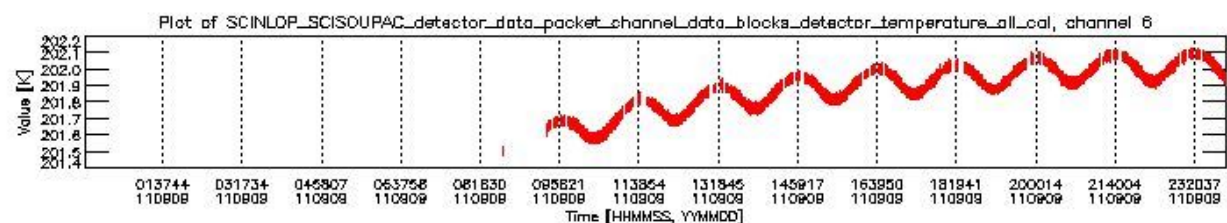
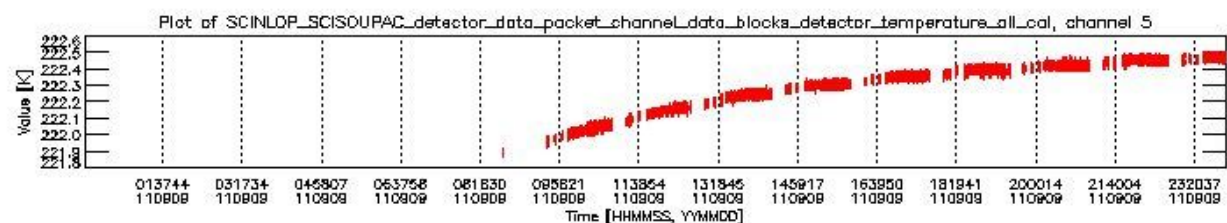
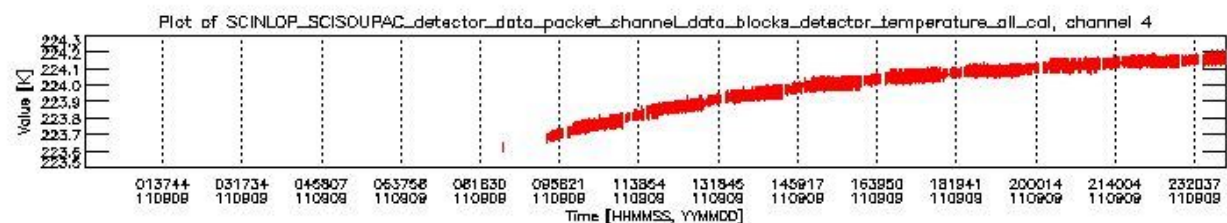
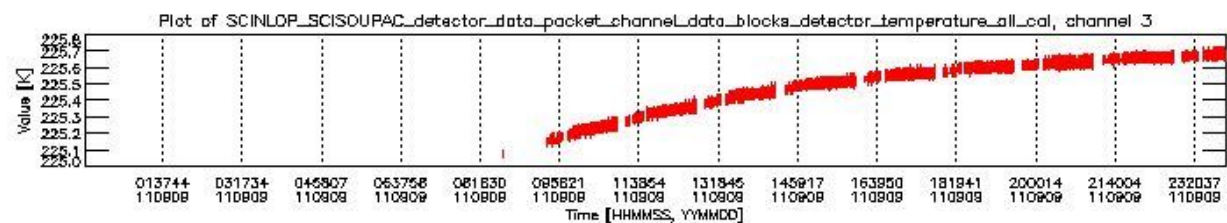
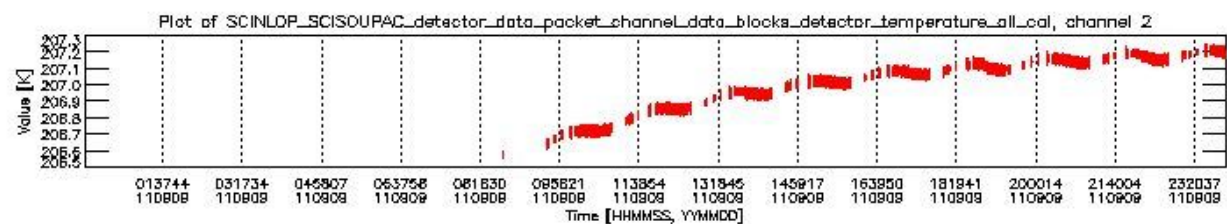
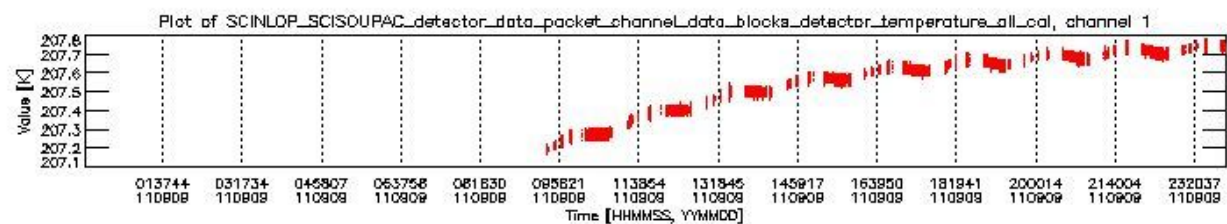
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110909\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110909\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110909\_3.PNG

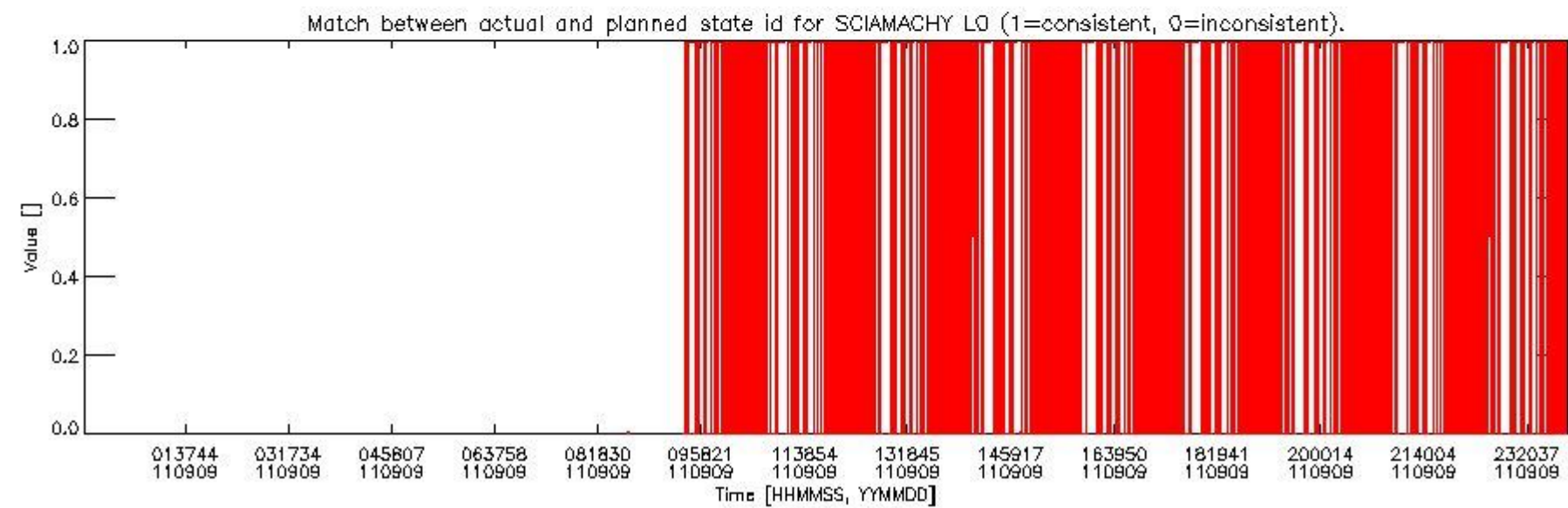
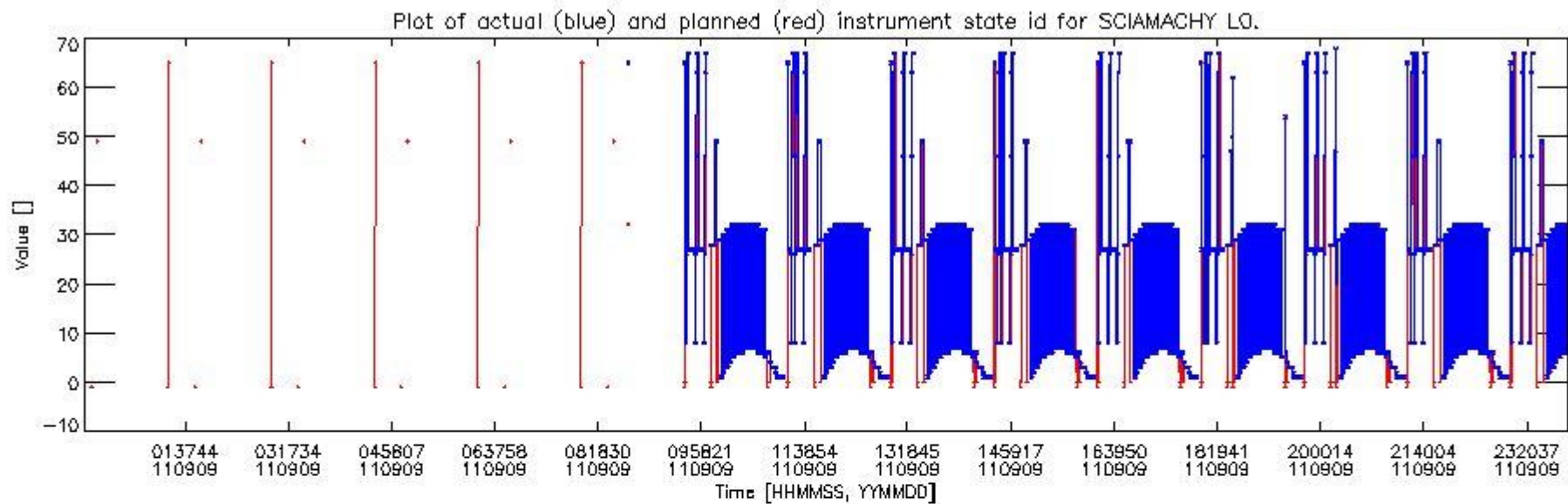


### 0.3 State monitoring

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: **39611**

#	Actual time	Actual value	Planned time	Planned value
0	09SEP2011 08:47:27.439126	65	09SEP2011 08:47:27.439126	32
1	09SEP2011 08:47:28.064126	65	09SEP2011 08:47:28.064126	32
2	09SEP2011 08:47:28.564126	65	09SEP2011 08:47:28.564126	32
3	09SEP2011 08:47:29.064126	65	09SEP2011 08:47:29.064126	32
4	09SEP2011 08:47:29.564126	65	09SEP2011 08:47:29.564126	32
5	09SEP2011 08:47:30.064126	65	09SEP2011 08:47:30.064126	32
6	09SEP2011 08:47:30.564126	65	09SEP2011 08:47:30.564126	32
7	09SEP2011 08:47:31.064126	65	09SEP2011 08:47:31.064126	32
8	09SEP2011 08:47:31.564126	65	09SEP2011 08:47:31.564126	32
9	09SEP2011 08:47:32.064126	65	09SEP2011 08:47:32.064126	32
10	09SEP2011 08:47:32.439126	65	09SEP2011 08:47:32.439126	32
11	09SEP2011 08:47:32.564126	65	09SEP2011 08:47:32.564126	32
12	09SEP2011 08:47:33.064126	65	09SEP2011 08:47:33.064126	32
13	09SEP2011 08:47:33.564126	65	09SEP2011 08:47:33.564126	32
14	09SEP2011 08:47:34.064126	65	09SEP2011 08:47:34.064126	32
15	09SEP2011 08:47:34.564126	65	09SEP2011 08:47:34.564126	32
16	09SEP2011 08:47:35.064126	65	09SEP2011 08:47:35.064126	32
17	09SEP2011 08:47:35.564126	65	09SEP2011 08:47:35.564126	32
18	09SEP2011 08:47:36.064126	65	09SEP2011 08:47:36.064126	32
19	09SEP2011 08:47:36.564126	65	09SEP2011 08:47:36.564126	32
...	...	...	...	...

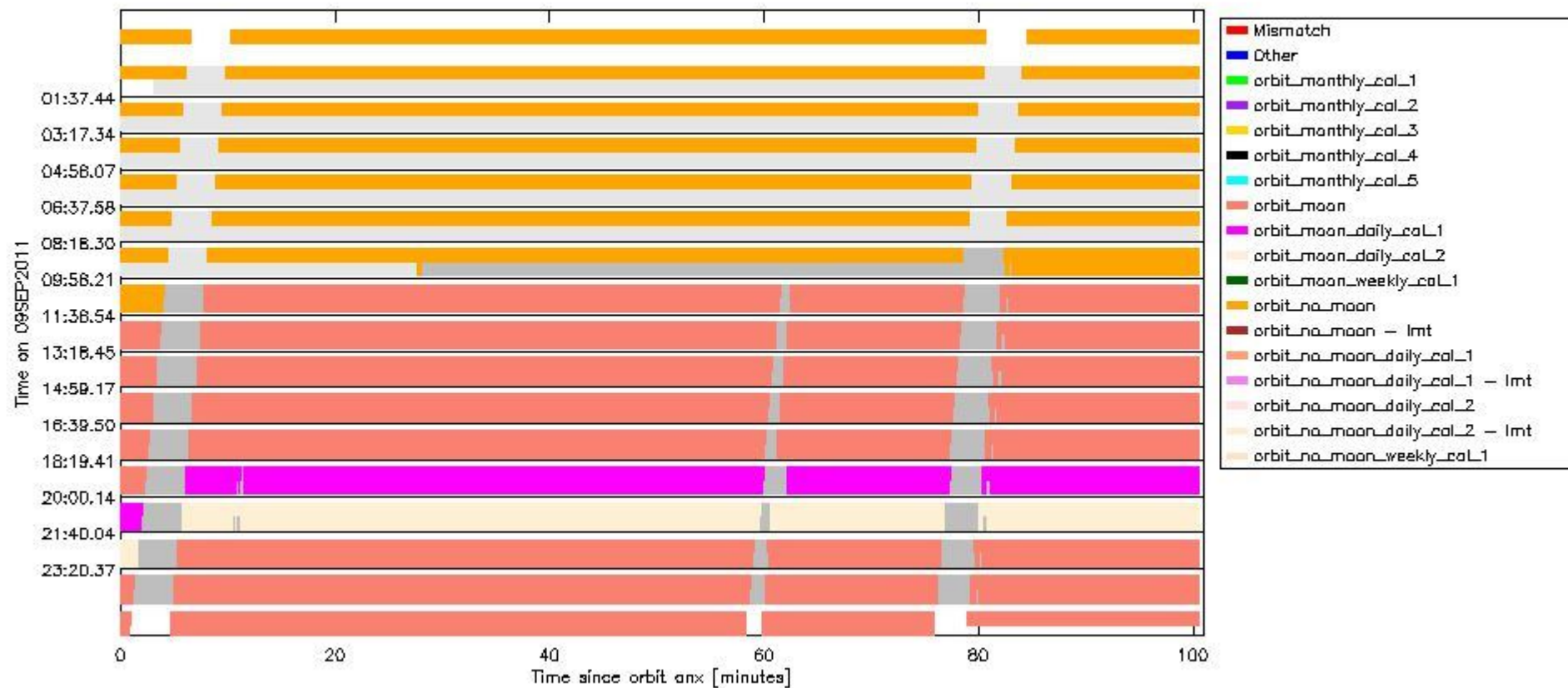


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110909\_5.PNG

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 09SEP2011.  
 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\_20110909\_6.PNG

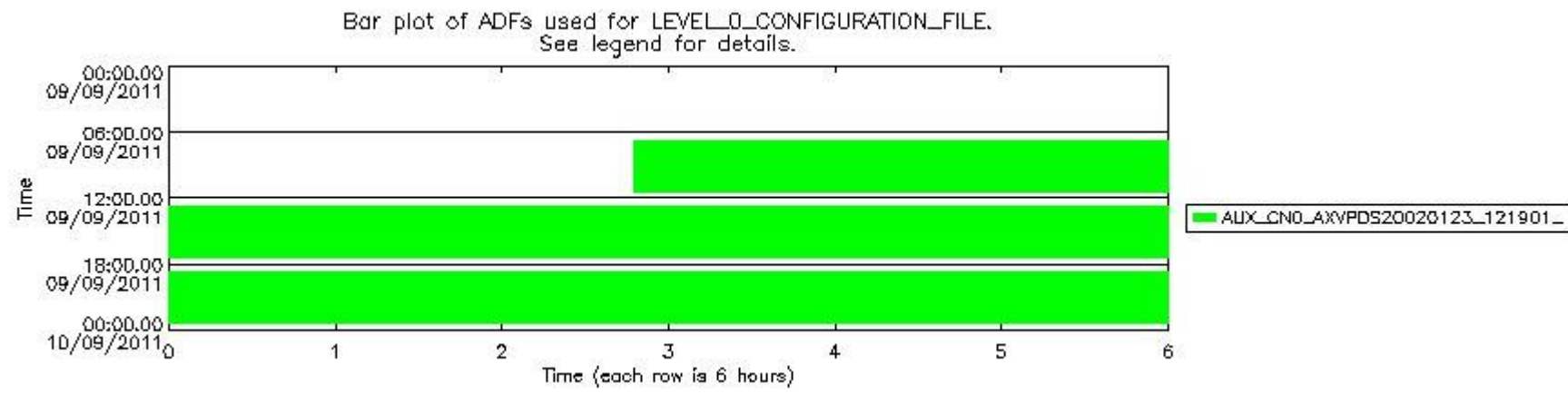
## 0.4 ADF monitoring

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

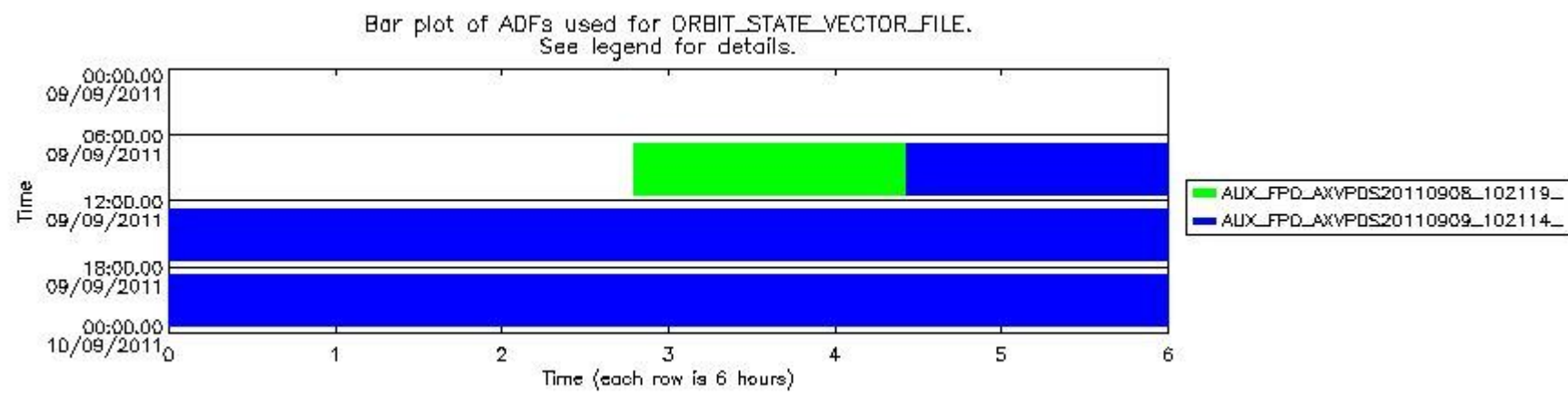
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

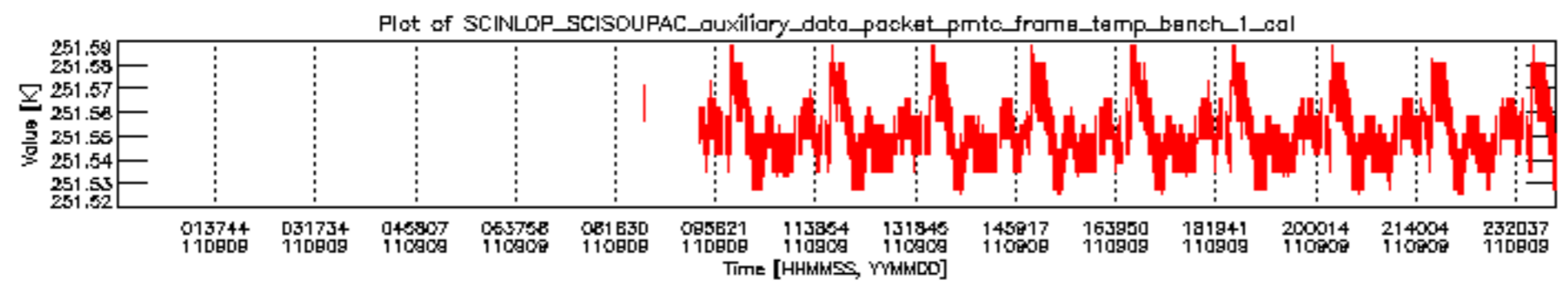
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110908_102119_20110908_085506_20110918_110851
2	AUX_FPO_AXVPDS20110909_102114_20110908_185630_20110918_211015



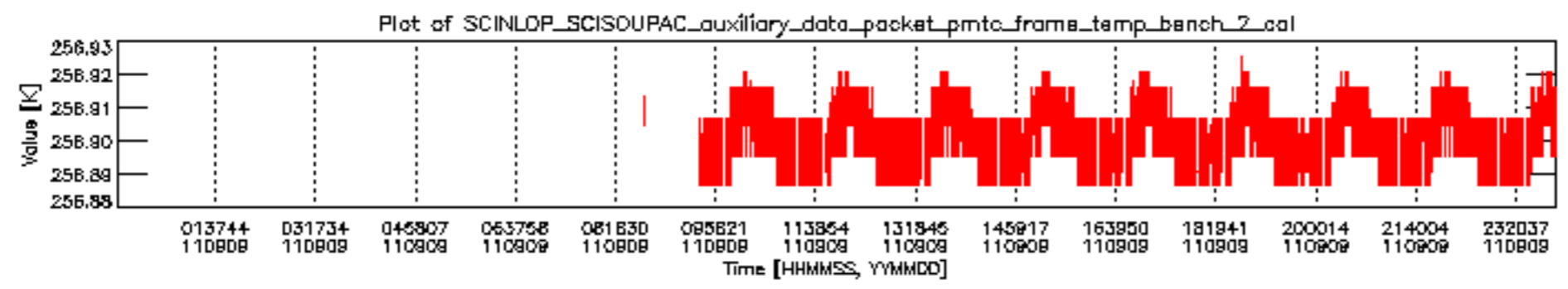
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110909\_7.PNG

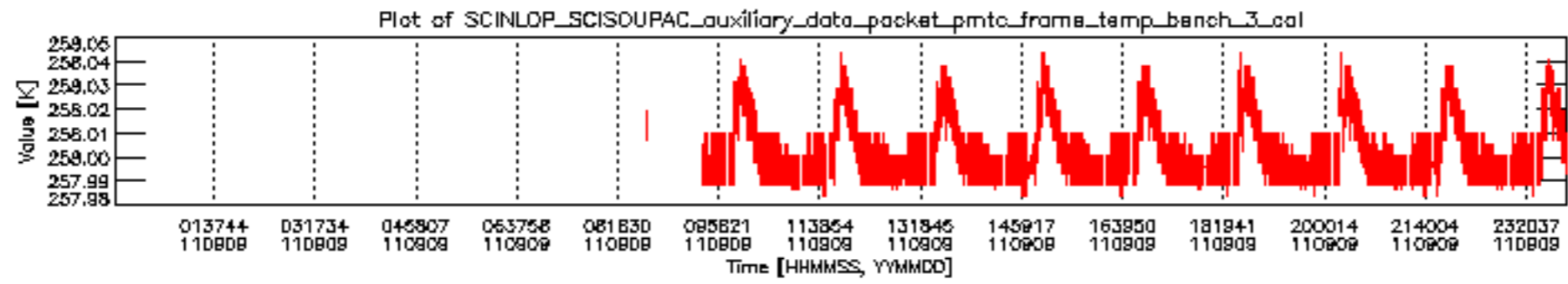


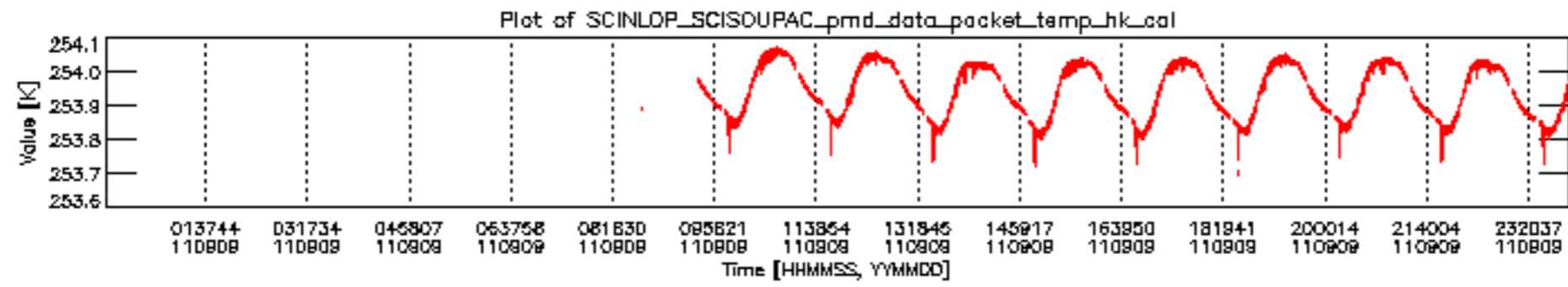
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110909\_8.PNG

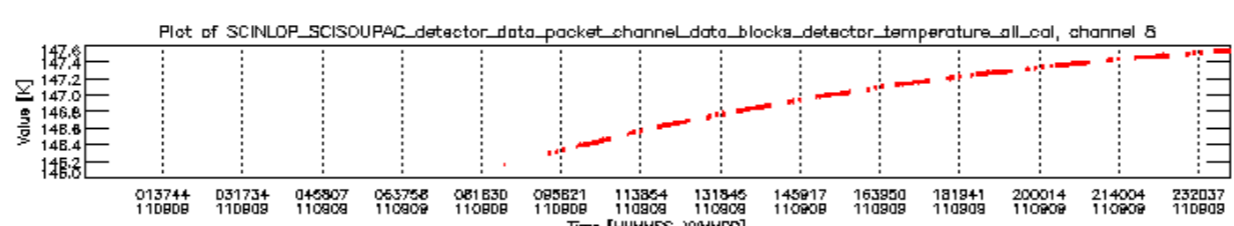
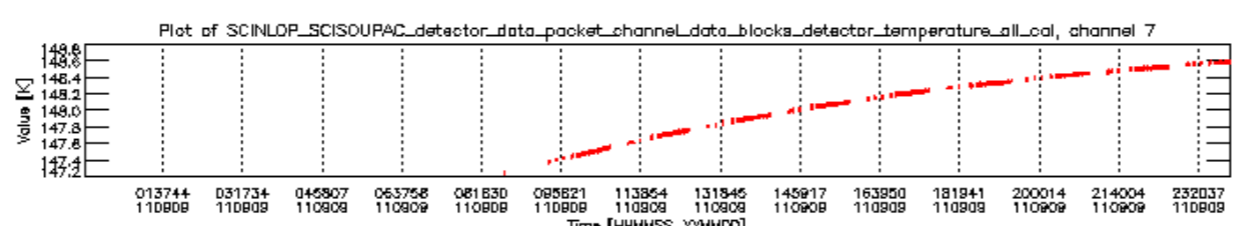
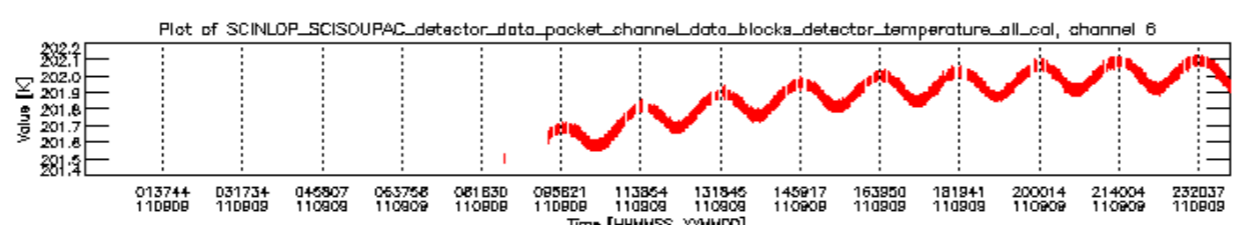
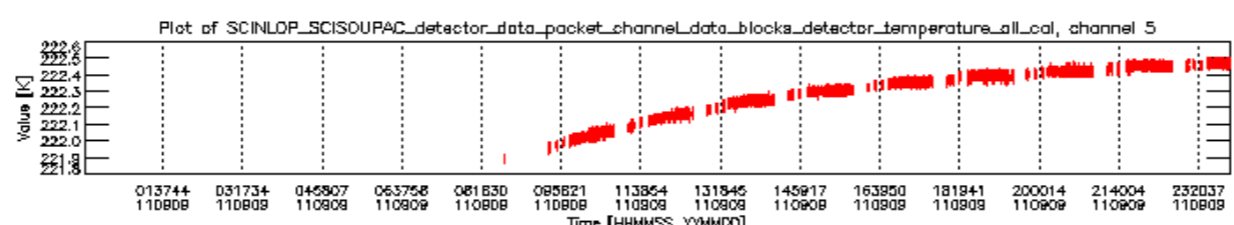
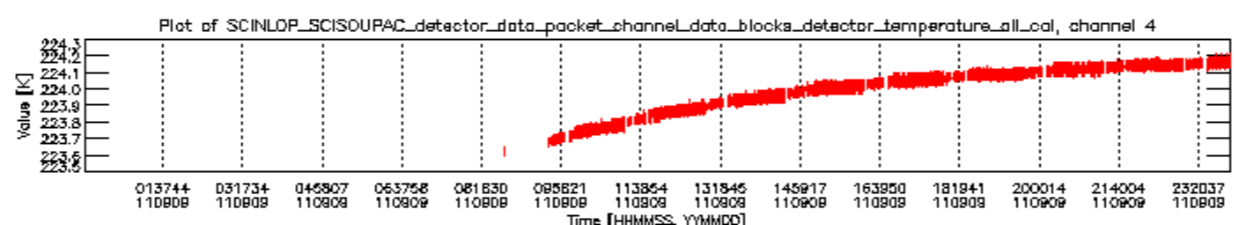
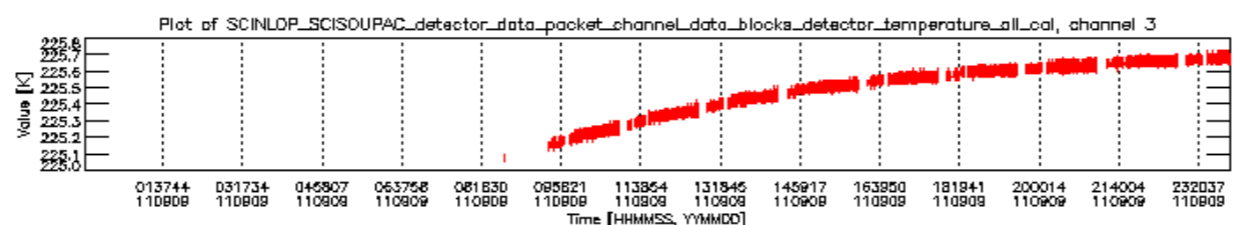
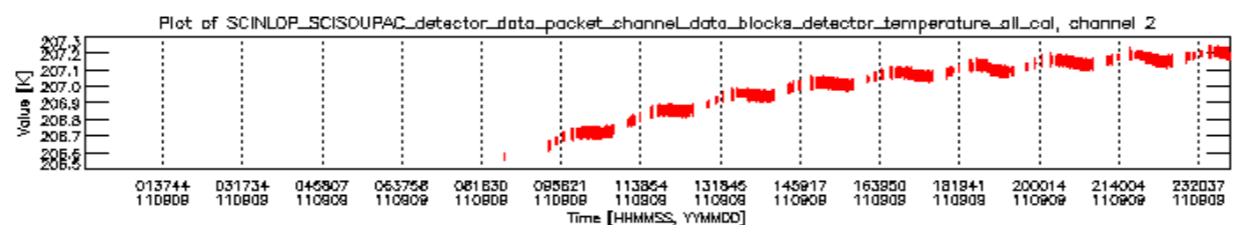
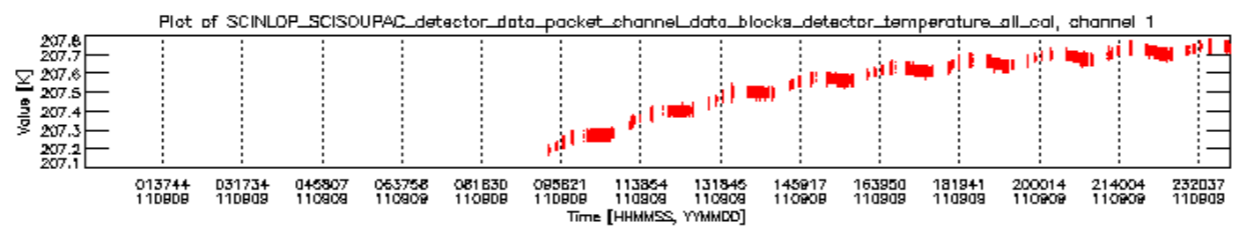


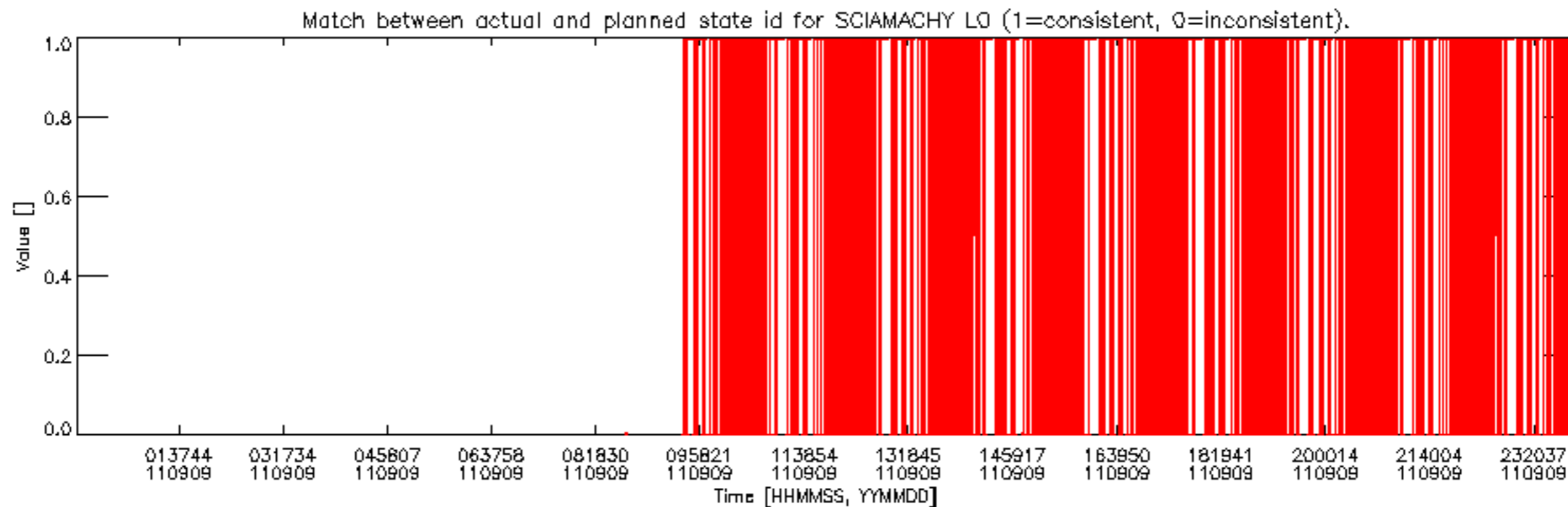
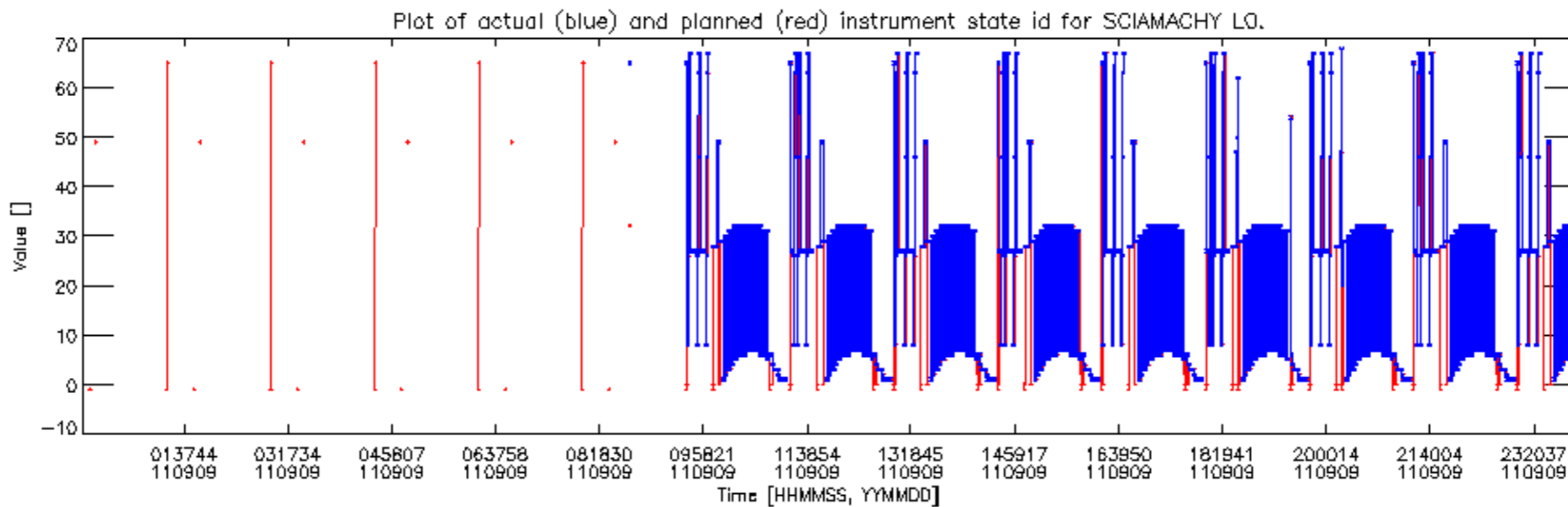












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 09SEP2011.  
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