

## 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	04SEP2008 04:39:46
Data source version	KSPT_L0/4303-N
Processing scope for products	31AUG2008 00:00:00 to 01SEP2008 00:00:00
Start time of first product within scope	30AUG2008 23:10:23
Stop time of last product within scope	01SEP2008 00:20:53
Total number of level 0 products	17
Number of level 0 products with errors	6

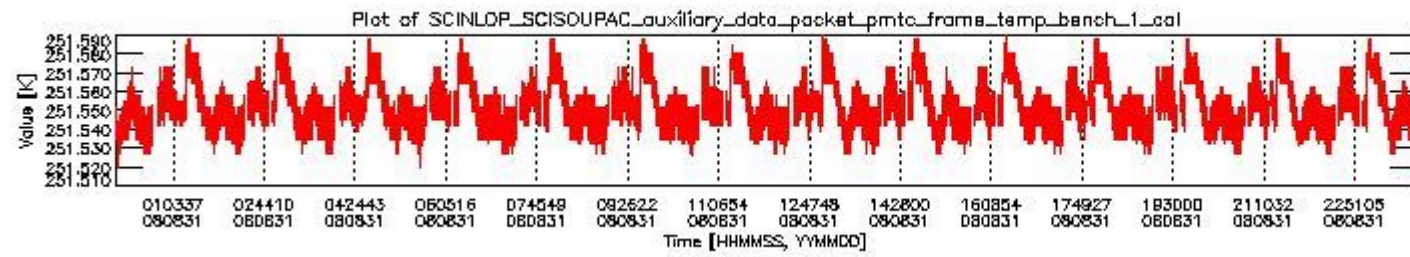
### 0.1.2 Summary per product

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

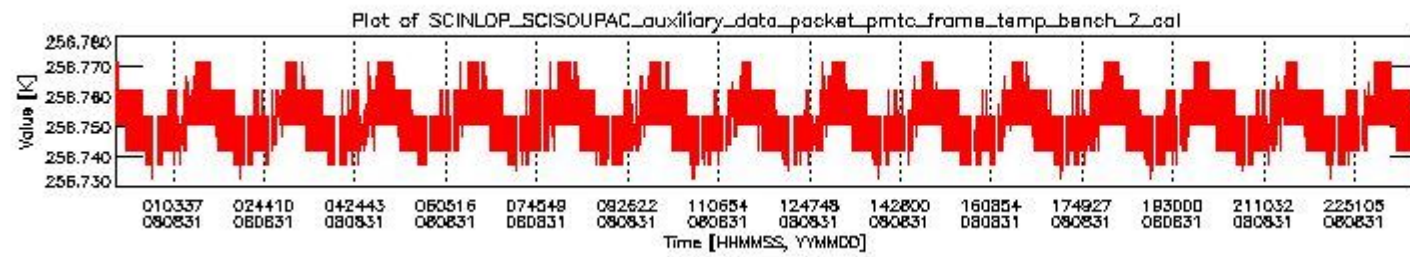
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080830_231023_000061202071_00373_33994_7415.N1	30AUG2008 23:10:23	31AUG2008 00:52:23	0	0	0	0	0
1	SCI_NL__OPNPDE20080831_005055_000046332071_00374_33995_7416.N1	31AUG2008 00:50:55	31AUG2008 02:08:08	0	0	0	0	0
2	SCI_NL__OPNPDE20080831_020712_000058432071_00375_33996_7417.N1	31AUG2008 02:07:12	31AUG2008 03:44:36	0	0	0	0	0
3	SCI_NL__OPNPDE20080831_034436_000061052071_00376_33997_7418.N1	31AUG2008 03:44:36	31AUG2008 05:26:21	0	0	0	0	0
4	SCI_NL__OPNPDE20080831_052512_000060922071_00377_33998_7419.N1	31AUG2008 05:25:12	31AUG2008 07:06:44	0	0	0	0	0
5	SCI_NL__OPNPDK20080831_070644_000039902071_00378_33999_9185.N1	31AUG2008 07:06:44	31AUG2008 08:13:14	0	0	0	0	0
6	SCI_NL__OPNPDK20080831_081218_000062172071_00379_34000_9186.N1	31AUG2008 08:12:18	31AUG2008 09:55:55	1	1	0	0	0
7	SCI_NL__OPNPDK20080831_095446_000059802071_00380_34001_9187.N1	31AUG2008 09:54:46	31AUG2008 11:34:27	1	1	0	0	1
8	SCI_NL__OPNPDK20080831_113427_000059682071_00381_34002_9188.N1	31AUG2008 11:34:27	31AUG2008 13:13:55	0	0	0	0	0
9	SCI_NL__OPNPDK20080831_131355_000059252071_00382_34003_9189.N1	31AUG2008 13:13:55	31AUG2008 14:52:39	0	0	0	0	0
10	SCI_NL__OPNPDK20080831_145131_000058432071_00383_34004_9190.N1	31AUG2008 14:51:31	31AUG2008 16:28:54	1	1	0	0	0
11	SCI_NL__OPNPDK20080831_162650_000060312071_00384_34005_9193.N1	31AUG2008 16:26:50	31AUG2008 18:07:21	1	1	0	0	0
12	SCI_NL__OPNPDK20080831_162854_000059072071_00384_34005_9192.N1	31AUG2008 16:28:54	31AUG2008 18:07:21	1	1	0	0	0
13	SCI_NL__OPNPDK20080831_180625_000060062071_00385_34006_9194.N1	31AUG2008 18:06:25	31AUG2008 19:46:30	1	1	0	0	0
14	SCI_NL__OPNPDE20080831_194535_000041052071_00386_34007_7420.N1	31AUG2008 19:45:35	31AUG2008 20:54:00	0	0	0	0	0
15	SCI_NL__OPNPDE20080831_205316_000063362071_00386_34007_7421.N1	31AUG2008 20:53:16	31AUG2008 22:38:53	0	0	0	0	0
16	SCI_NL__OPNPDE20080831_223853_000061202071_00387_34008_7422.N1	31AUG2008 22:38:53	01SEP2008 00:20:53	0	0	0	0	0

## 0.2 Product Quality Indicators

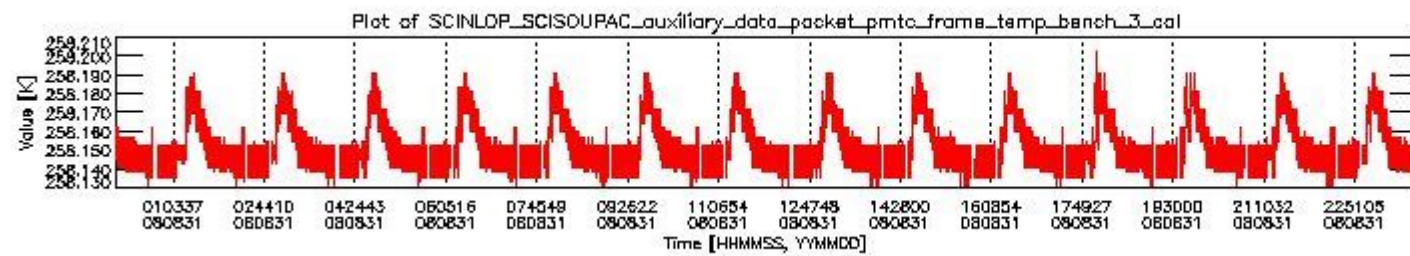
This section shows information about product quality, currently temperatures.



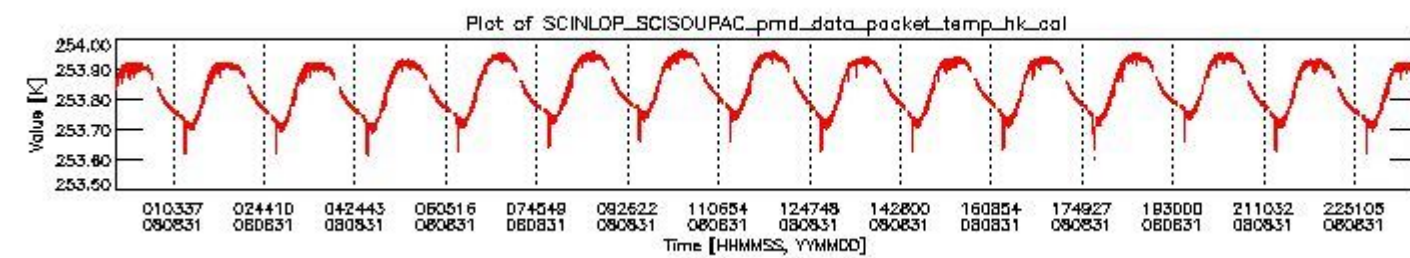
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080831\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080831\_1.PNG

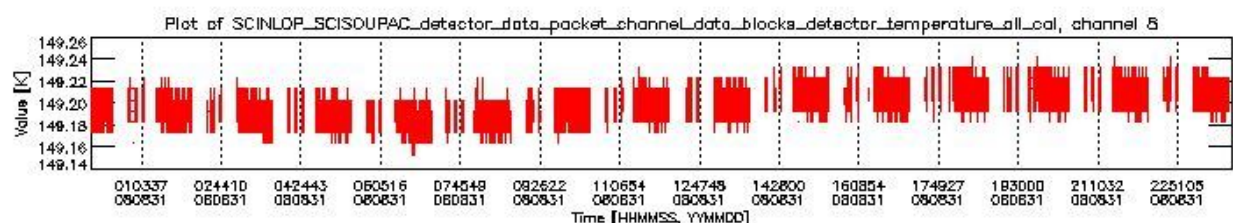
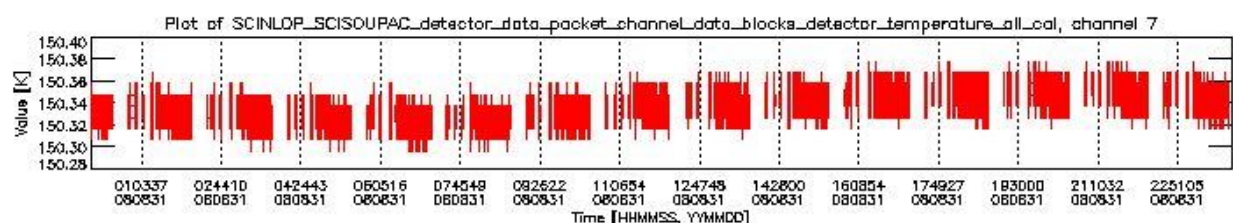
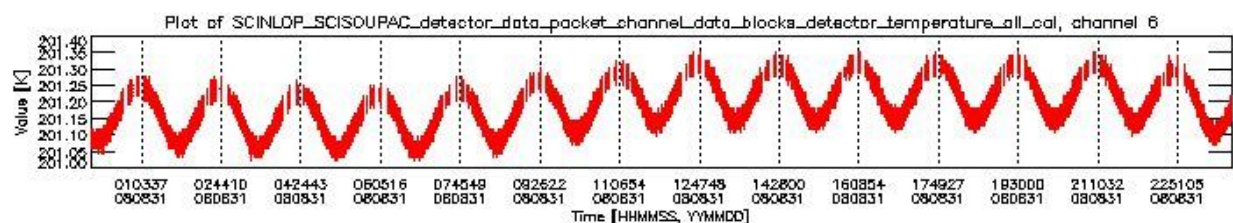
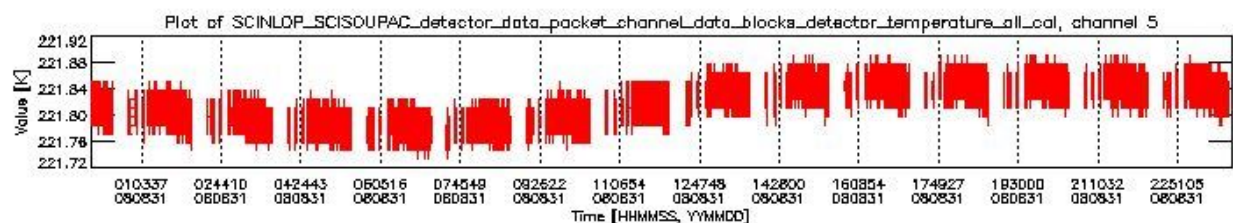
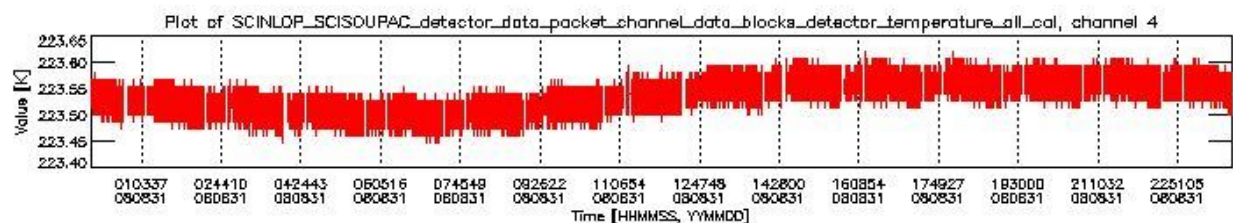
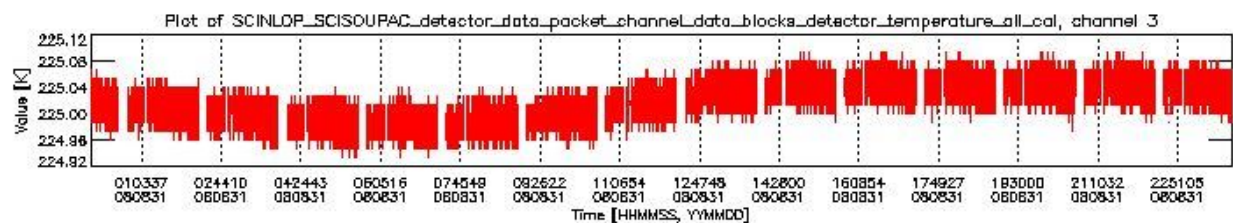
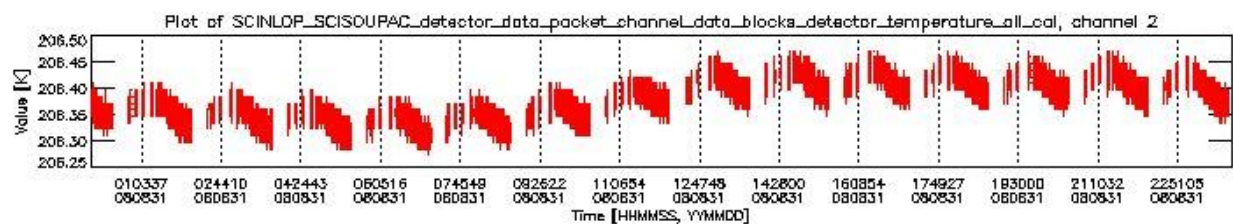
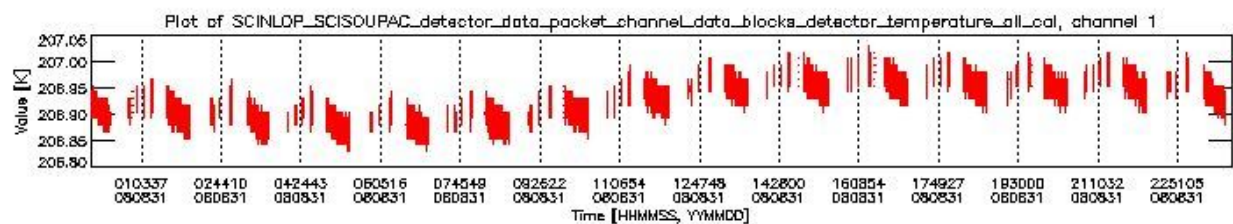


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080831\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080831\_3.PNG



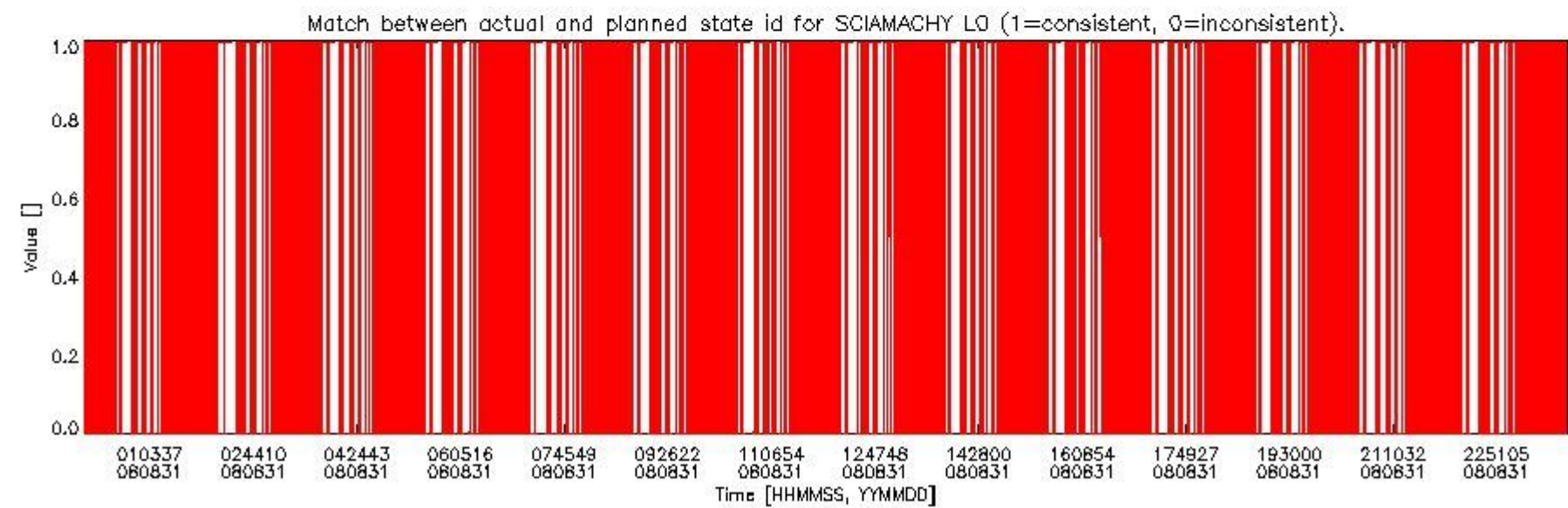
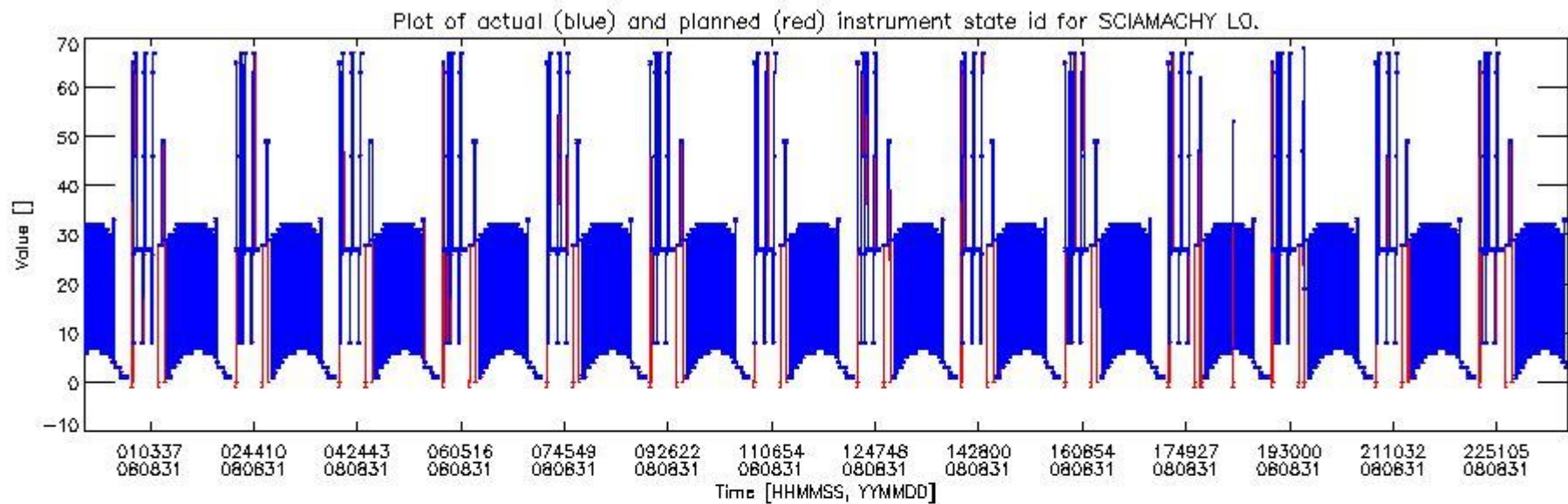


### 0.3 State monitoring

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: **48441**

#	Actual time	Actual value	Planned time	Planned value
0	31AUG2008 00:00:34.651190	32	31AUG2008 00:00:34.651190	6
1	31AUG2008 00:00:35.276172	32	31AUG2008 00:00:35.276172	6
2	31AUG2008 00:00:35.651185	32	31AUG2008 00:00:35.651185	6
3	31AUG2008 00:00:36.026198	32	31AUG2008 00:00:36.026198	6
4	31AUG2008 00:00:36.588697	32	31AUG2008 00:00:36.588697	6
5	31AUG2008 00:00:36.963670	32	31AUG2008 00:00:36.963670	6
6	31AUG2008 00:00:37.338683	32	31AUG2008 00:00:37.338683	6
7	31AUG2008 00:00:37.713696	32	31AUG2008 00:00:37.713696	6
8	31AUG2008 00:00:38.276196	32	31AUG2008 00:00:38.276196	6
9	31AUG2008 00:00:38.651168	32	31AUG2008 00:00:38.651168	6
10	31AUG2008 00:00:39.026181	32	31AUG2008 00:00:39.026181	6
11	31AUG2008 00:00:39.401194	32	31AUG2008 00:00:39.401194	6
12	31AUG2008 00:00:39.651163	32	31AUG2008 00:00:39.651163	6
13	31AUG2008 00:00:39.963694	32	31AUG2008 00:00:39.963694	6
14	31AUG2008 00:00:40.338667	32	31AUG2008 00:00:40.338667	6
15	31AUG2008 00:00:40.713680	32	31AUG2008 00:00:40.713680	6
16	31AUG2008 00:00:41.088693	32	31AUG2008 00:00:41.088693	6
17	31AUG2008 00:00:41.651192	32	31AUG2008 00:00:41.651192	6
18	31AUG2008 00:00:42.026165	32	31AUG2008 00:00:42.026165	6
19	31AUG2008 00:00:42.401178	32	31AUG2008 00:00:42.401178	6
	...	...	...	...



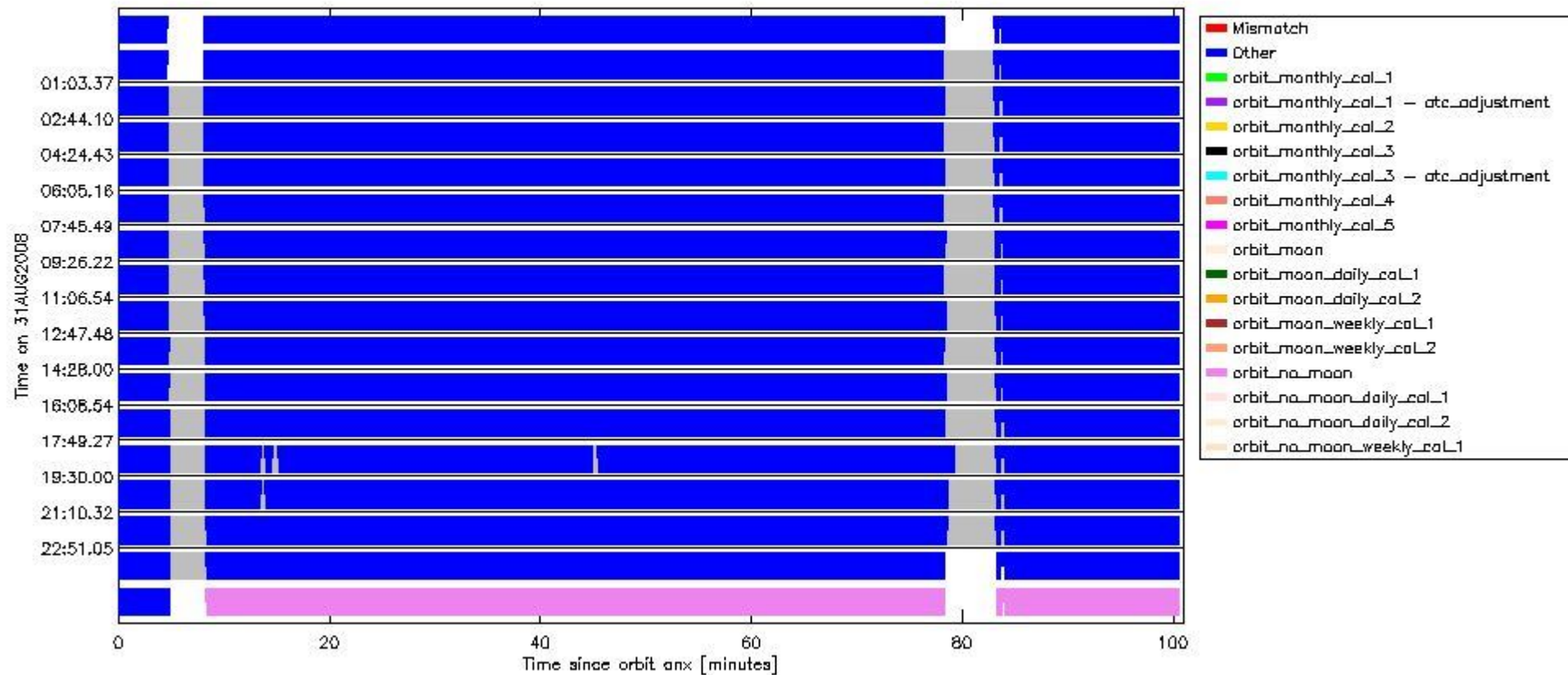
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080831\_5.PNG

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 31AUG2008.  
 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\_20080831\_6.PNG

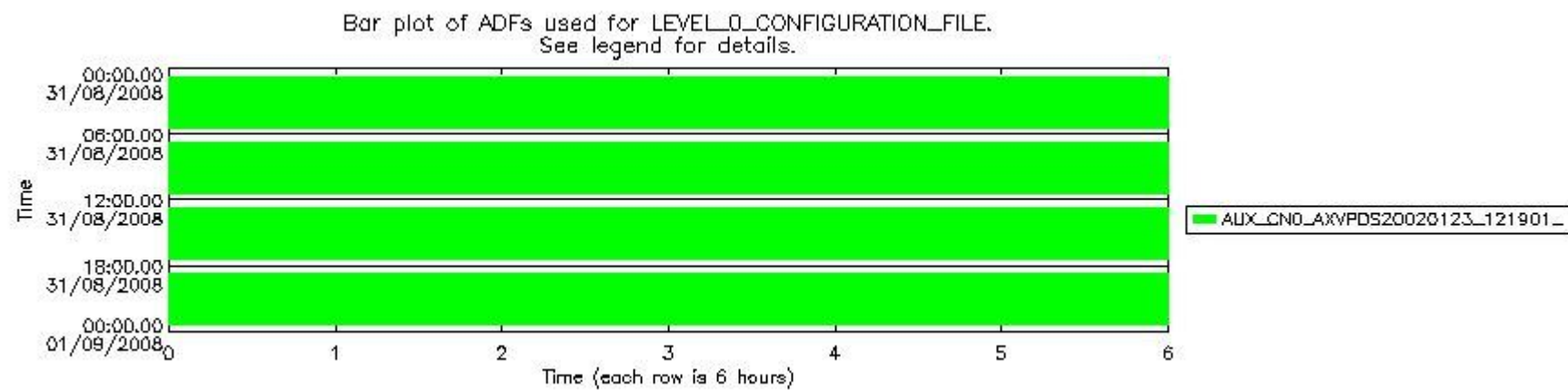
## 0.4 ADF monitoring

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

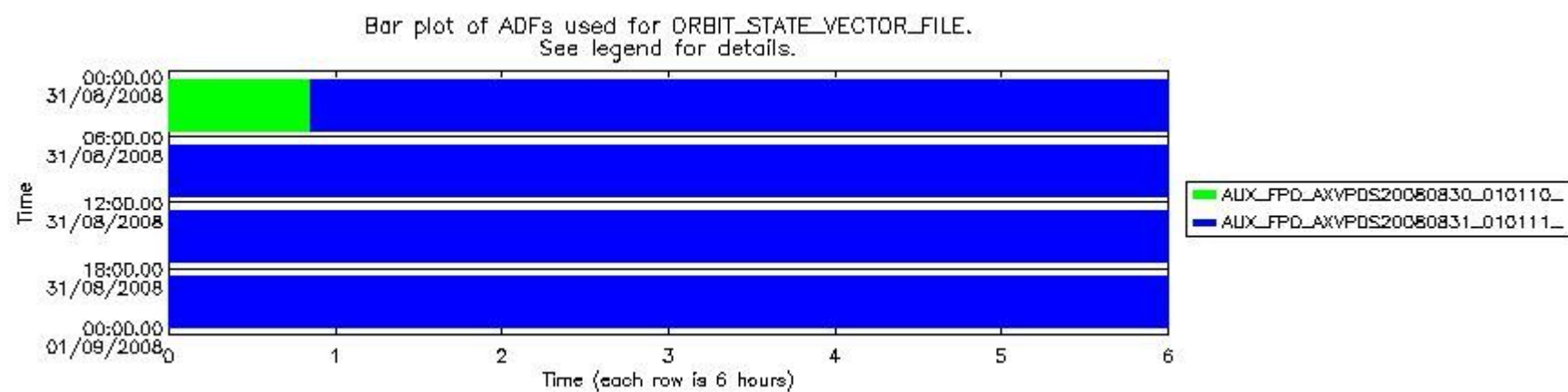
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

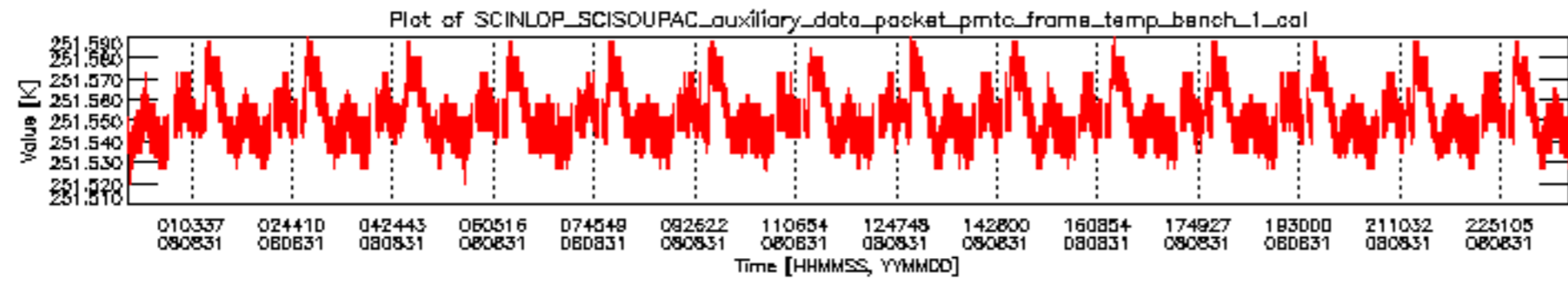
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20080830_010110_20080829_185239_20080908_201851</b>
2	<b>AUX_FPO_AXVPDS20080831_010111_20080830_182102_20080909_212750</b>



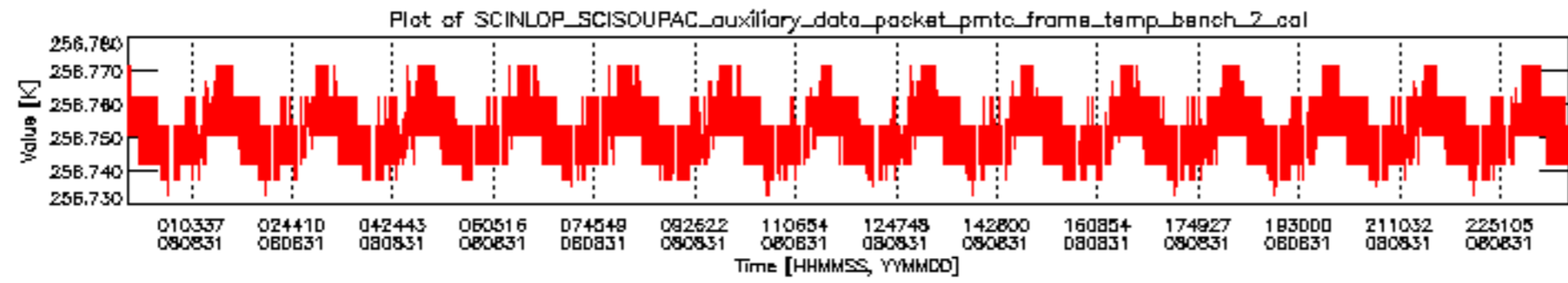
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080831\_7.PNG

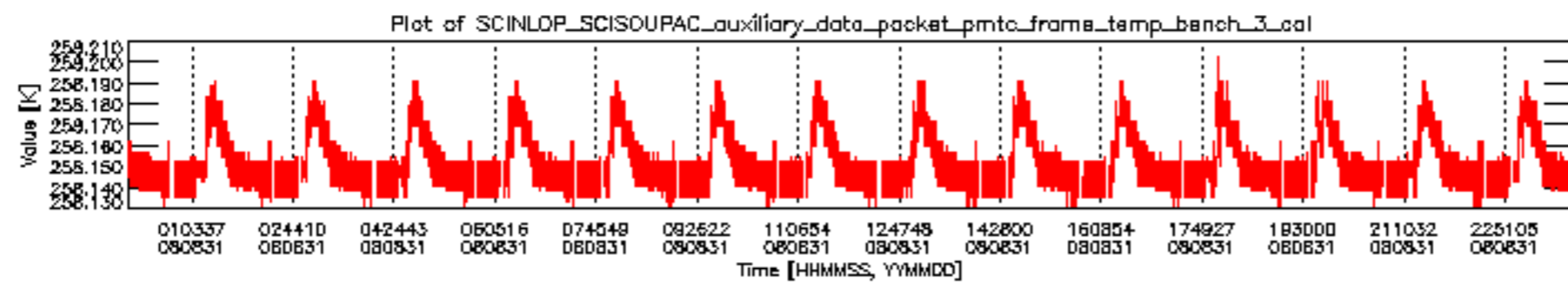


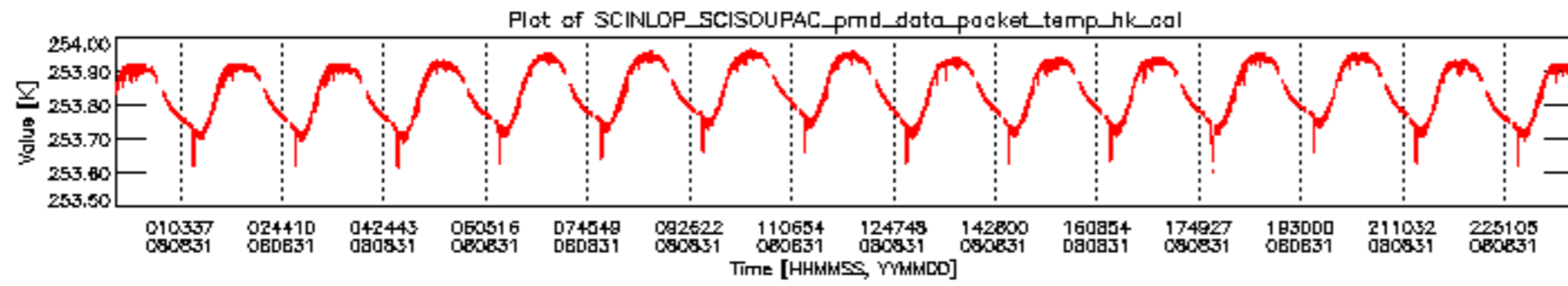
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080831\_8.PNG

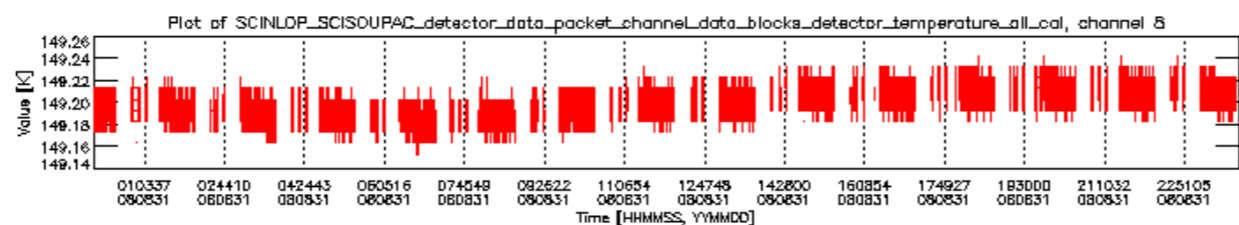
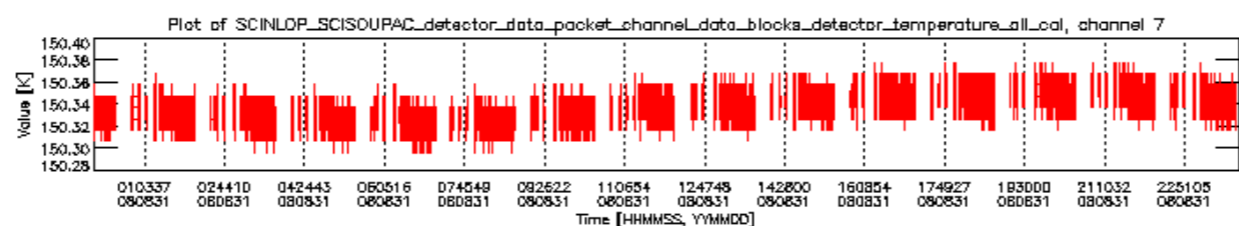
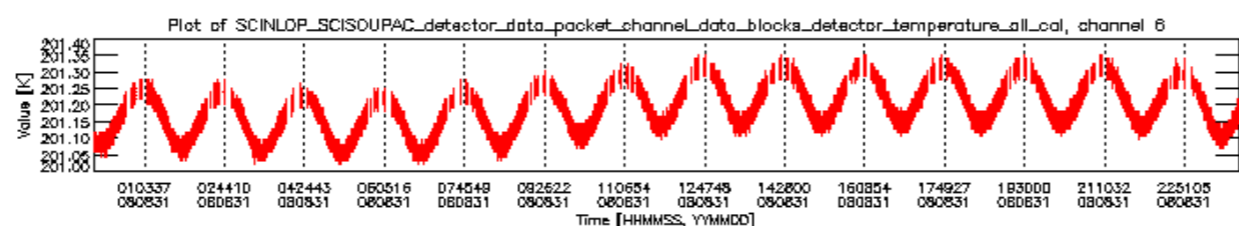
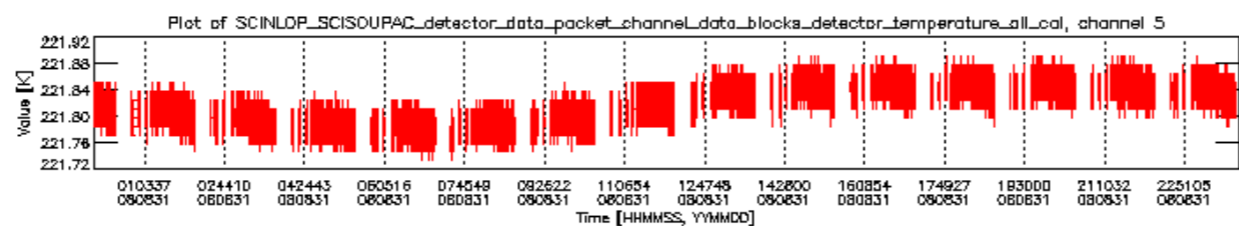
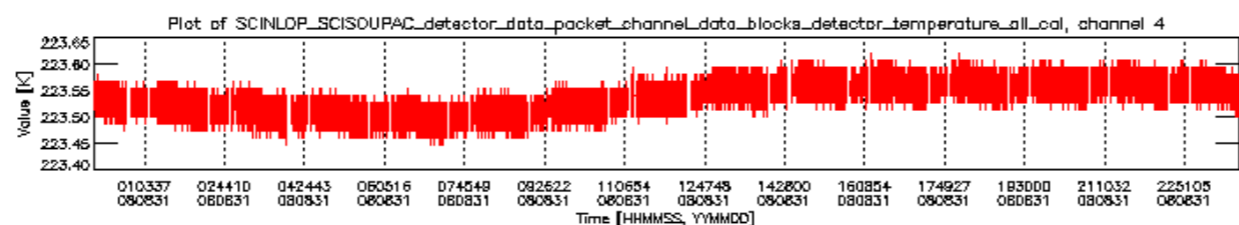
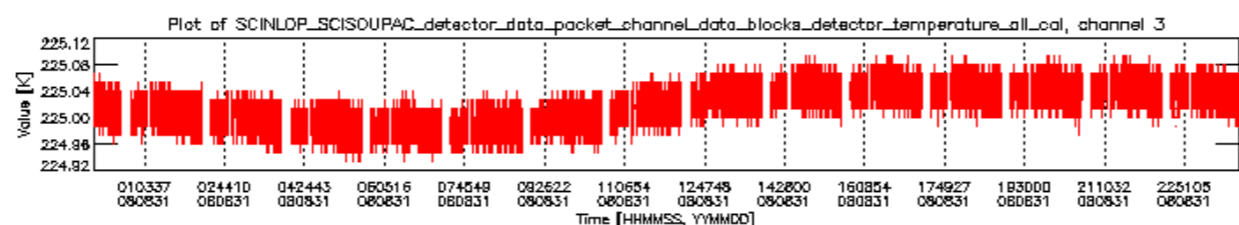
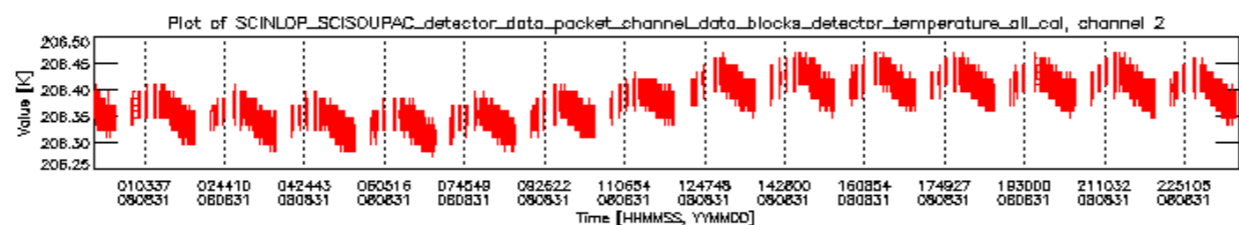
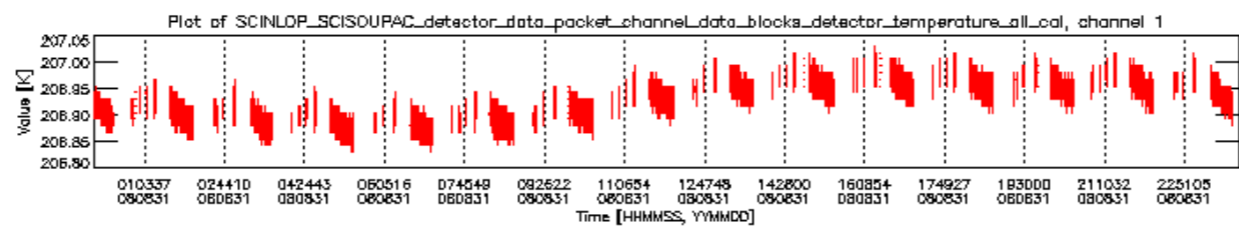




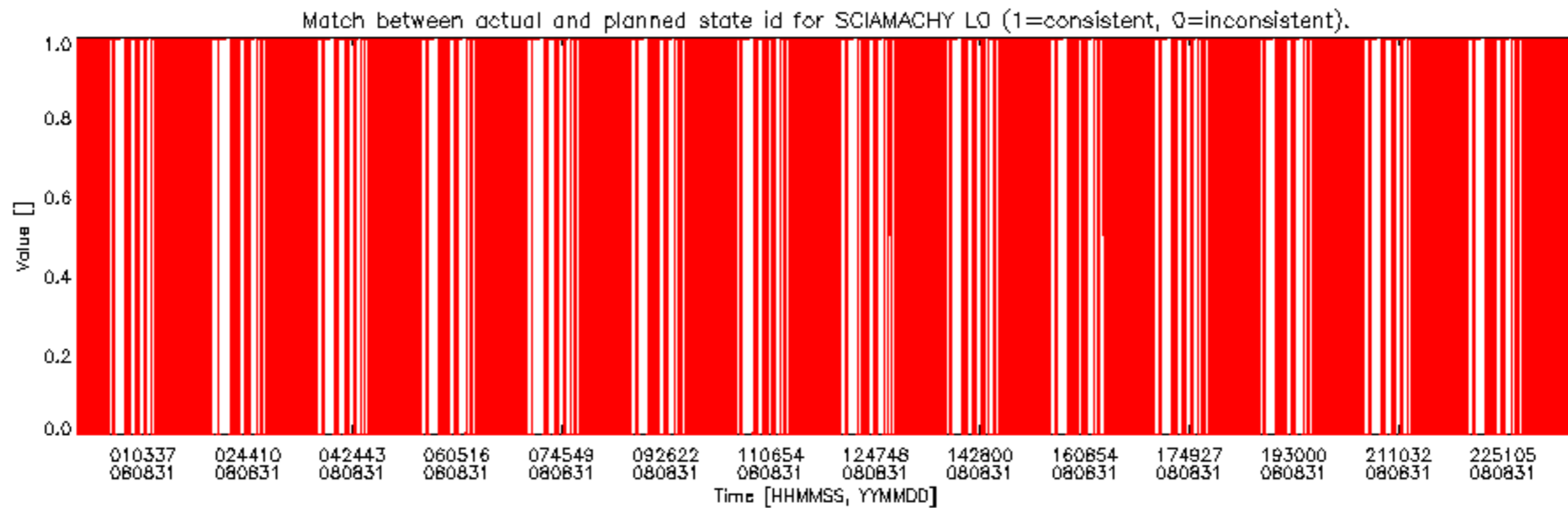
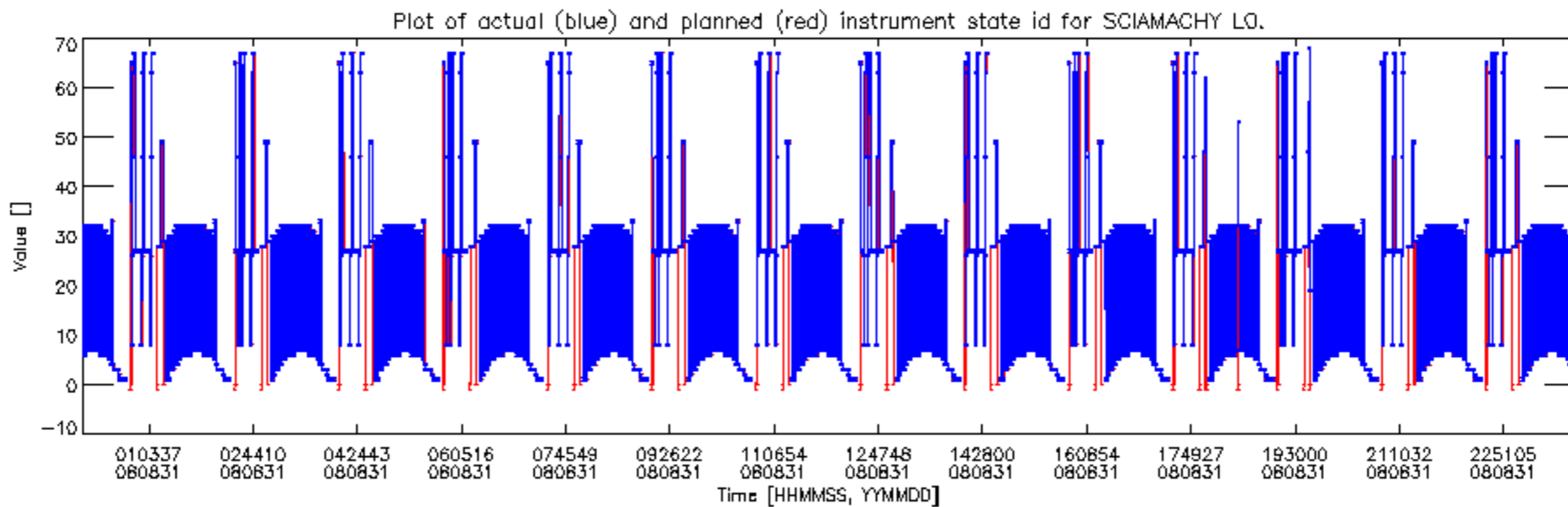












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 31AUG2008.  
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