

## 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	27JUN2008 05:27:53
Data source version	KSPT_L0/4303-N
Processing scope for products	23JUN2008 00:00:00 to 24JUN2008 00:00:00
Start time of first product within scope	22JUN2008 22:37:28
Stop time of last product within scope	24JUN2008 01:29:11
Total number of level 0 products	17
Number of level 0 products with errors	0

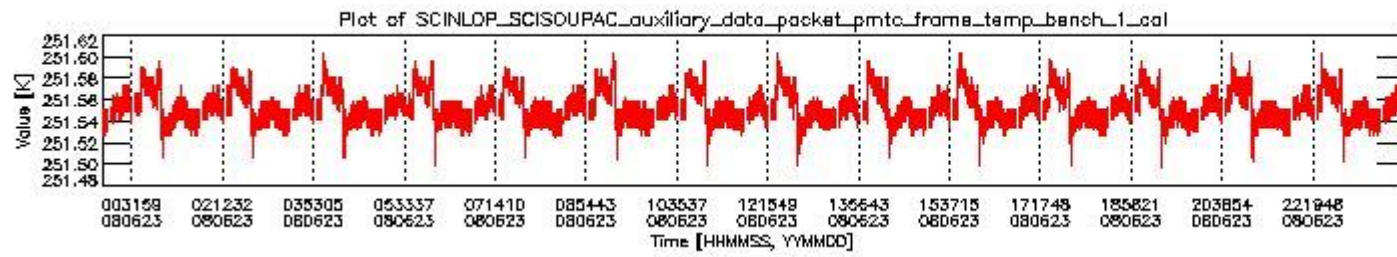
### 0.1.2 Summary per product

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

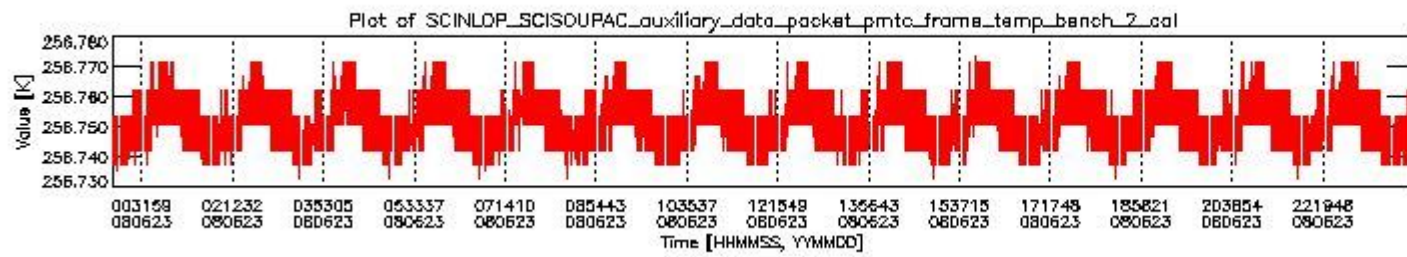
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080622_223728_000062562069_00387_33006_7025.N1	22JUN2008 22:37:28	23JUN2008 00:21:44	0	0	0	0	0
1	SCI_NL__OPNPDE20080623_002024_000058492069_00388_33007_7026.N1	23JUN2008 00:20:24	23JUN2008 01:57:53	0	0	0	0	0
2	SCI_NL__OPNPDE20080623_015636_000047822069_00389_33008_7027.N1	23JUN2008 01:56:36	23JUN2008 03:16:18	0	0	0	0	0
3	SCI_NL__OPNPDE20080623_031509_000059122069_00390_33009_7028.N1	23JUN2008 03:15:09	23JUN2008 04:53:41	0	0	0	0	0
4	SCI_NL__OPNPDE20080623_045341_000060362069_00391_33010_7029.N1	23JUN2008 04:53:41	23JUN2008 06:34:17	0	0	0	0	0
5	SCI_NL__OPNPDK20080623_063417_000041142069_00392_33011_8576.N1	23JUN2008 06:34:17	23JUN2008 07:42:51	0	0	0	0	0
6	SCI_NL__OPNPDK20080623_074142_000060922069_00393_33012_8577.N1	23JUN2008 07:41:42	23JUN2008 09:23:14	0	0	0	0	0
7	SCI_NL__OPNPDK20080623_092218_000060362069_00394_33013_8578.N1	23JUN2008 09:22:18	23JUN2008 11:02:54	0	0	0	0	0
8	SCI_NL__OPNPDK20080623_110158_000060922069_00395_33014_8579.N1	23JUN2008 11:01:58	23JUN2008 12:43:30	0	0	0	0	0
9	SCI_NL__OPNPDK20080623_124330_000058562069_00396_33015_8580.N1	23JUN2008 12:43:30	23JUN2008 14:21:05	0	0	0	0	0
10	SCI_NL__OPNPDK20080623_142105_000058992069_00397_33016_8581.N1	23JUN2008 14:21:05	23JUN2008 15:59:24	0	0	0	0	0
11	SCI_NL__OPNPDK20080623_155924_000058712069_00398_33017_8582.N1	23JUN2008 15:59:24	23JUN2008 17:37:15	0	0	0	0	0
12	SCI_NL__OPNPDK20080623_173619_000058992069_00399_33018_8583.N1	23JUN2008 17:36:19	23JUN2008 19:14:38	0	0	0	0	0
13	SCI_NL__OPNPDK20080623_191342_000060892069_00400_33019_8584.N1	23JUN2008 19:13:42	23JUN2008 20:55:11	0	0	0	0	0
14	SCI_NL__OPNPDE20080623_205307_000043642069_00401_33020_7030.N1	23JUN2008 20:53:07	23JUN2008 22:05:51	0	0	0	0	0
15	SCI_NL__OPNPDE20080623_220551_000062232069_00401_33020_7031.N1	23JUN2008 22:05:51	23JUN2008 23:49:34	0	0	0	0	0
16	SCI_NL__OPNPDE20080623_234803_000060672069_00402_33021_7032.N1	23JUN2008 23:48:03	24JUN2008 01:29:11	0	0	0	0	0

## 0.2 Product Quality Indicators

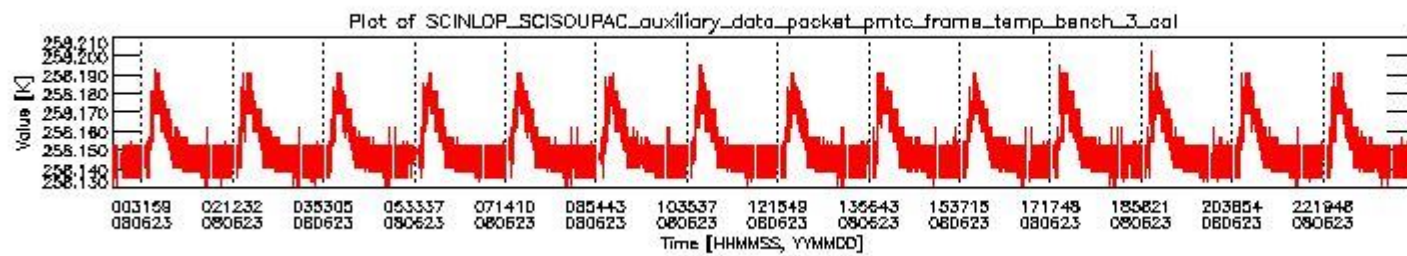
This section shows information about product quality, currently temperatures.



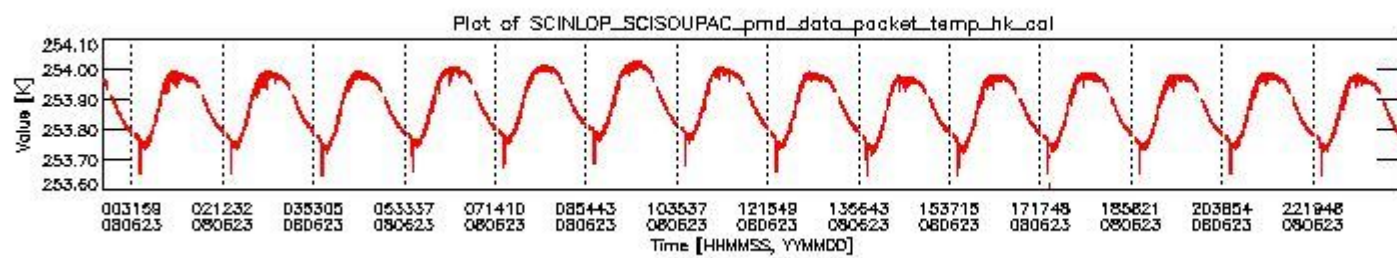
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080623\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080623\_1.PNG

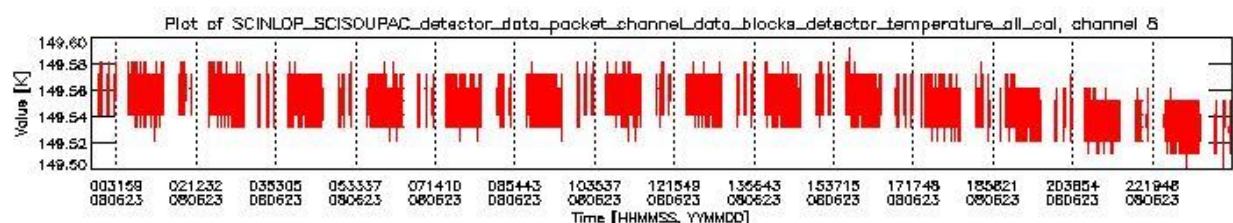
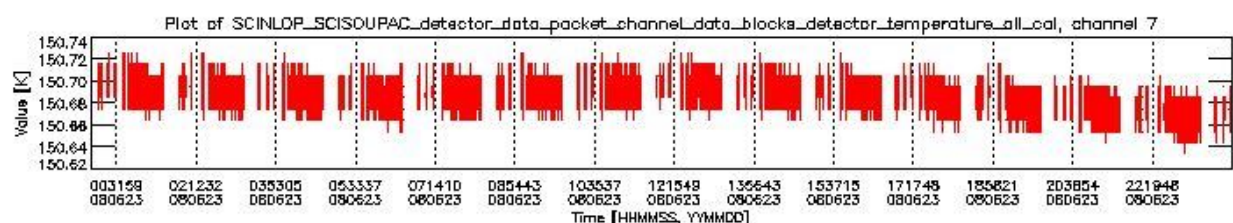
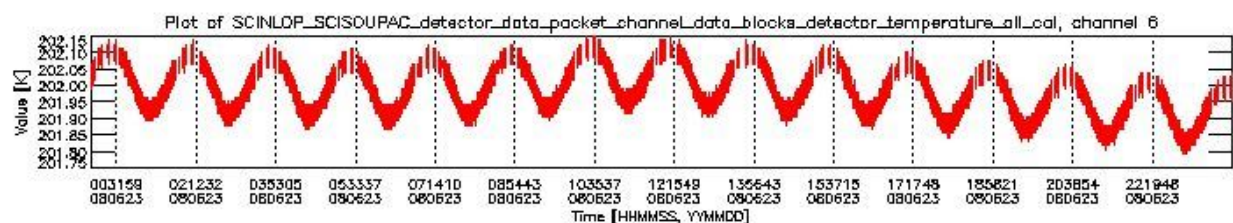
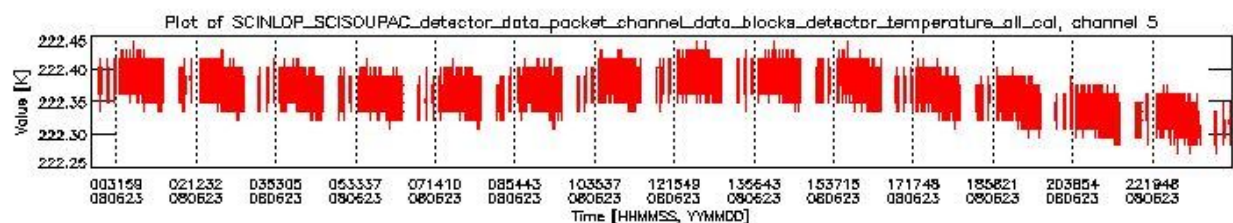
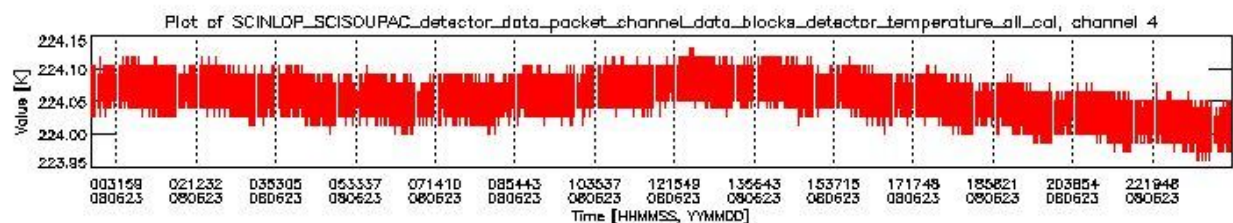
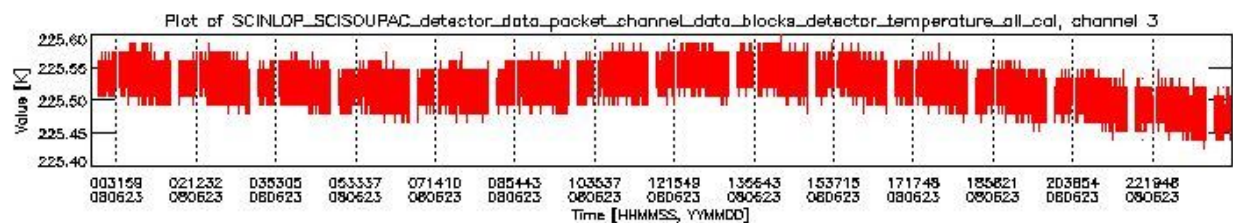
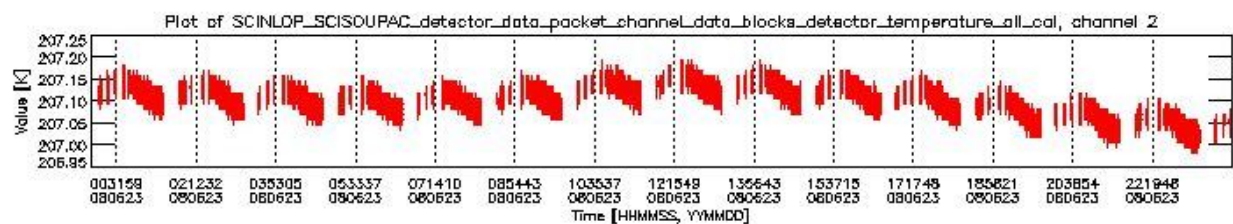
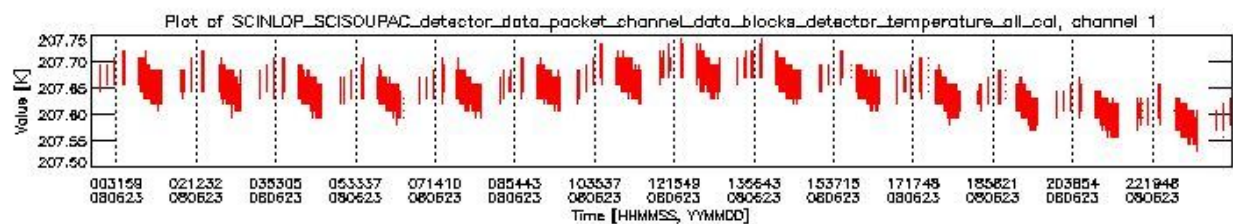


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080623\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080623\_3.PNG



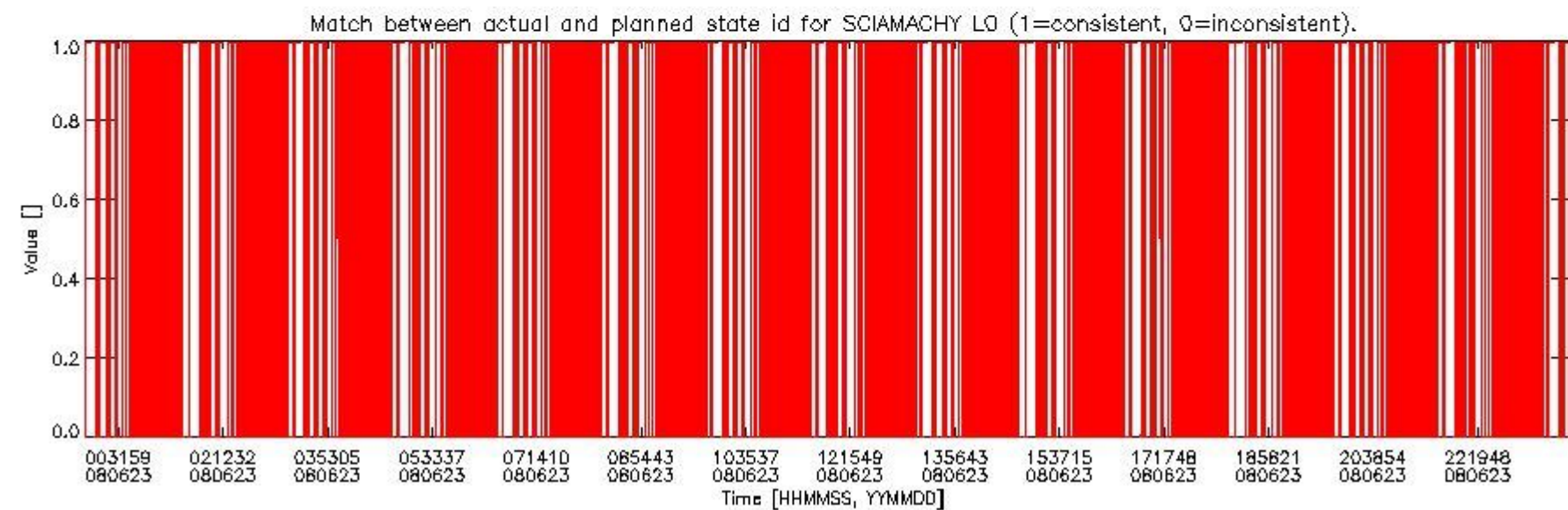
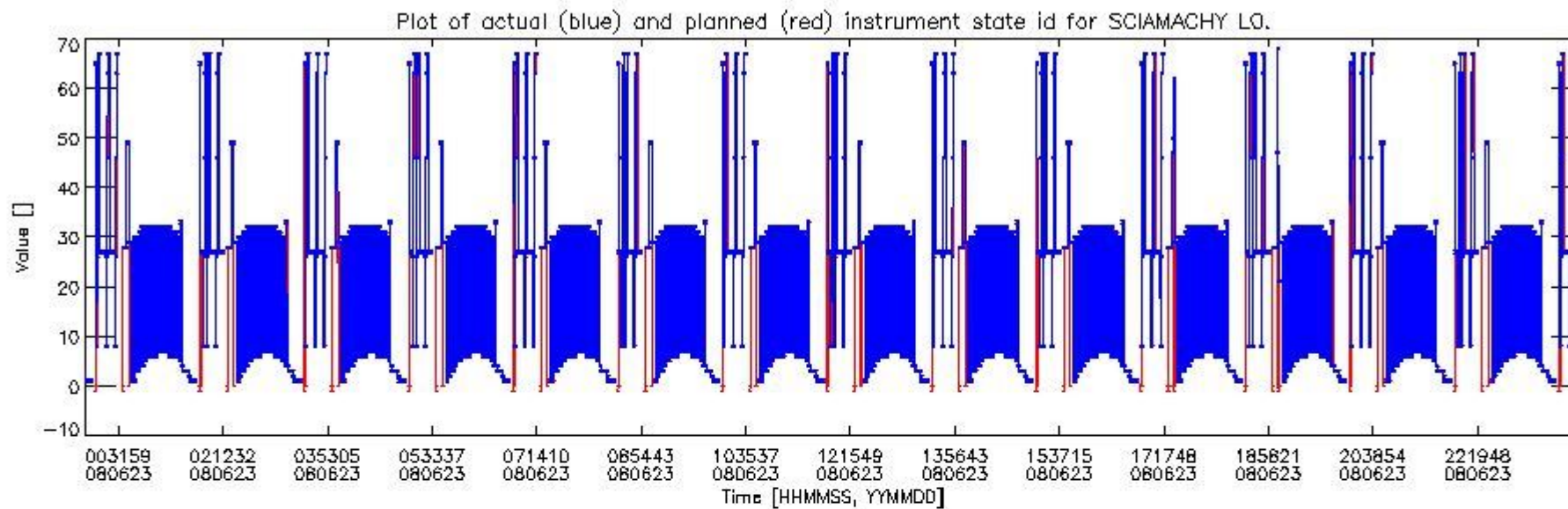


### 0.3 State monitoring

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: **32483**

#	Actual time	Actual value	Planned time	Planned value
0	23JUN2008 00:09:36.471587	65	23JUN2008 00:09:36.471587	0
1	23JUN2008 00:09:37.096568	65	23JUN2008 00:09:37.096568	0
2	23JUN2008 00:09:37.596585	65	23JUN2008 00:09:37.596585	0
3	23JUN2008 00:09:38.096563	65	23JUN2008 00:09:38.096563	0
4	23JUN2008 00:09:38.596580	65	23JUN2008 00:09:38.596580	0
5	23JUN2008 00:09:39.096557	65	23JUN2008 00:09:39.096557	0
6	23JUN2008 00:09:39.596575	65	23JUN2008 00:09:39.596575	0
7	23JUN2008 00:09:40.096592	65	23JUN2008 00:09:40.096592	0
8	23JUN2008 00:09:40.596569	65	23JUN2008 00:09:40.596569	0
9	23JUN2008 00:09:41.096587	65	23JUN2008 00:09:41.096587	0
10	23JUN2008 00:10:20.229386	8	23JUN2008 00:10:20.229386	0
11	23JUN2008 00:10:21.354385	8	23JUN2008 00:10:21.354385	0
12	23JUN2008 00:10:22.354379	8	23JUN2008 00:10:22.354379	0
13	23JUN2008 00:10:23.354374	8	23JUN2008 00:10:23.354374	0
14	23JUN2008 00:10:24.354409	8	23JUN2008 00:10:24.354409	0
15	23JUN2008 00:10:25.229399	8	23JUN2008 00:10:25.229399	0
16	23JUN2008 00:10:25.354403	8	23JUN2008 00:10:25.354403	0
17	23JUN2008 00:10:26.354398	8	23JUN2008 00:10:26.354398	0
18	23JUN2008 00:10:27.354392	8	23JUN2008 00:10:27.354392	0
19	23JUN2008 00:11:03.791893	26	23JUN2008 00:11:03.791893	8
	...	...	...	...



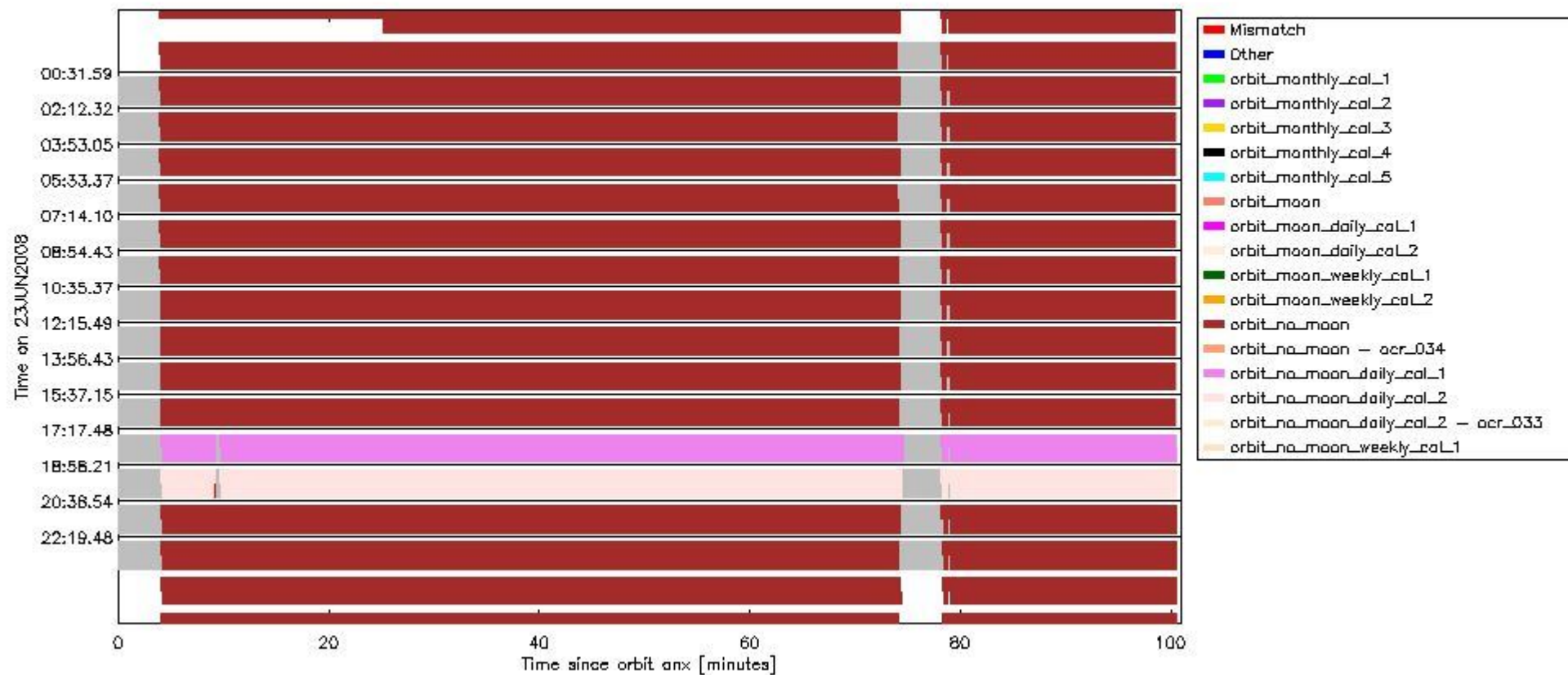
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080623\_5.PNG

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 23JUN2008.  
 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\_20080623\_6.PNG

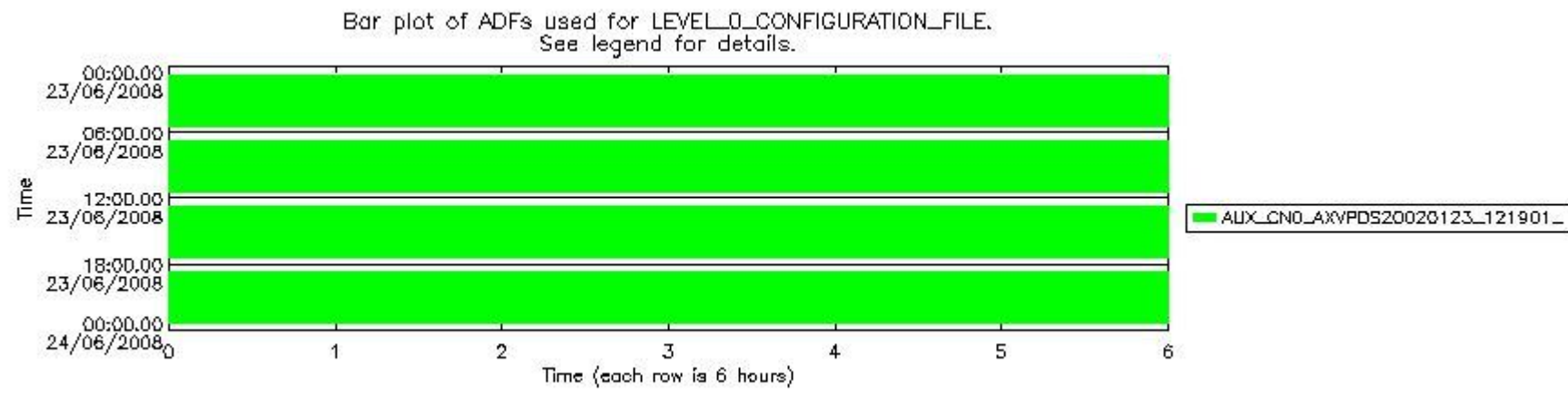
## 0.4 ADF monitoring

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

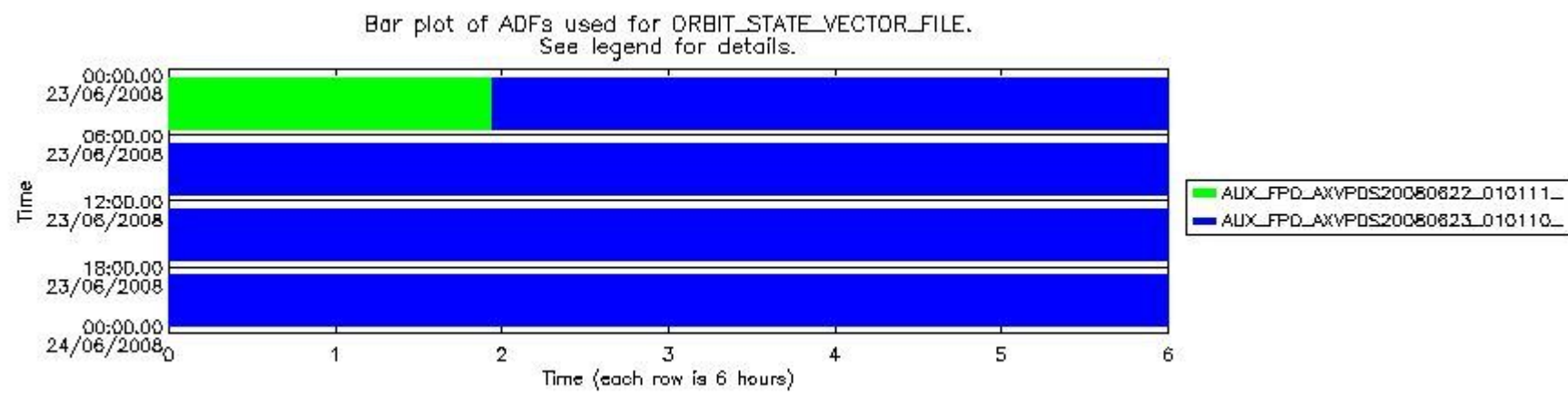
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

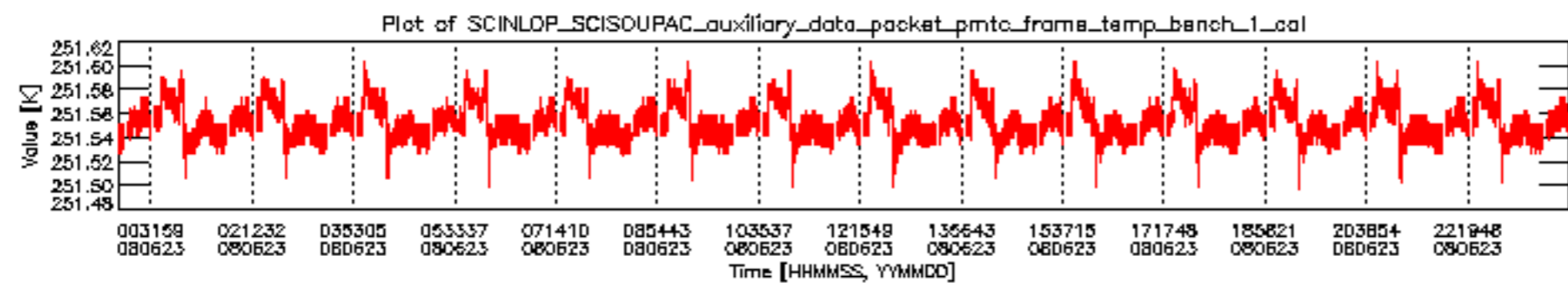
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20080622_010111_20080621_182105_20080701_212754
2	AUX_FPO_AXVPDS20080623_010110_20080622_193003_20080702_205617



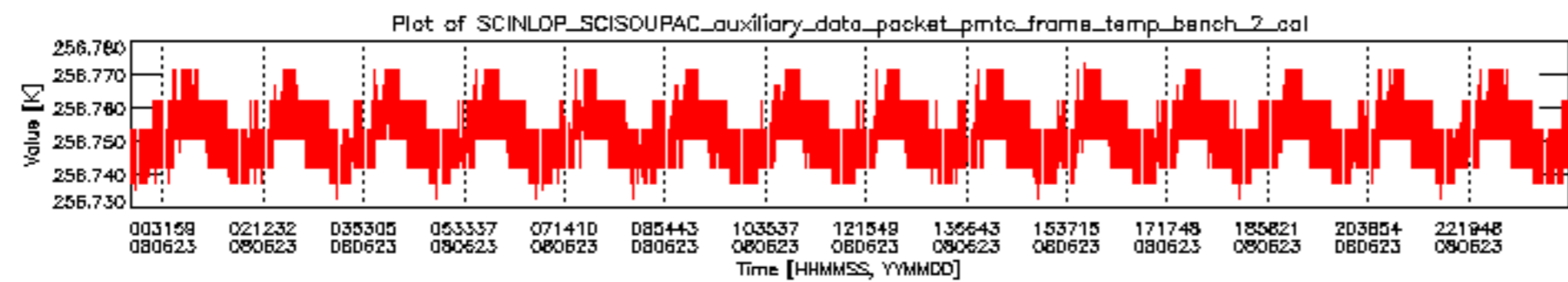
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080623\_7.PNG

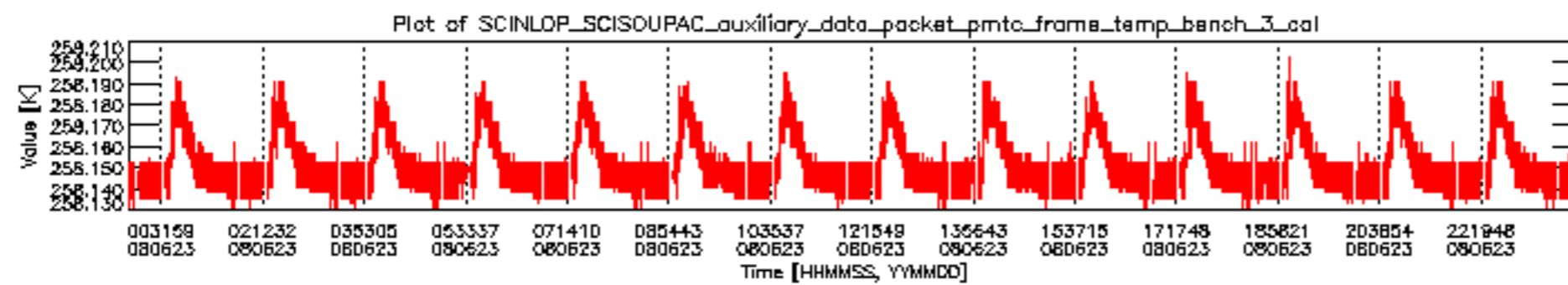


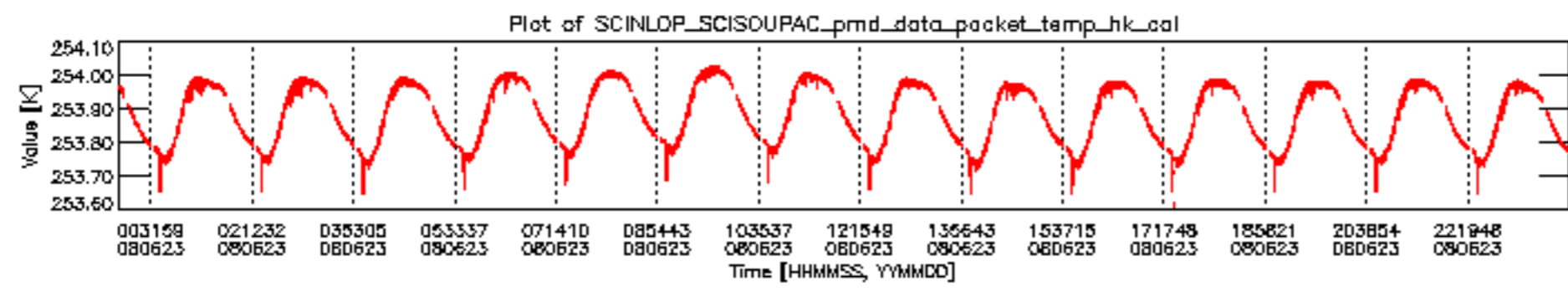
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080623\_8.PNG

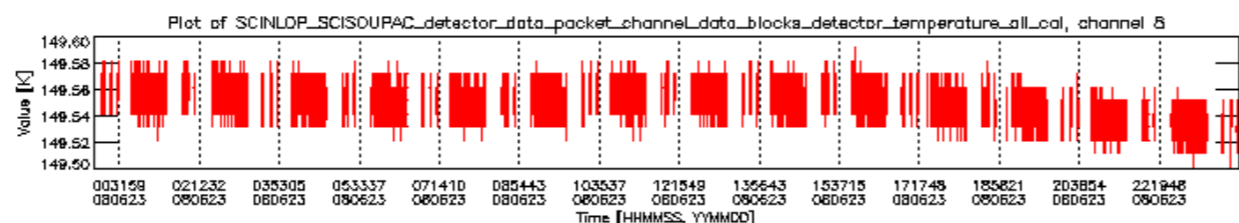
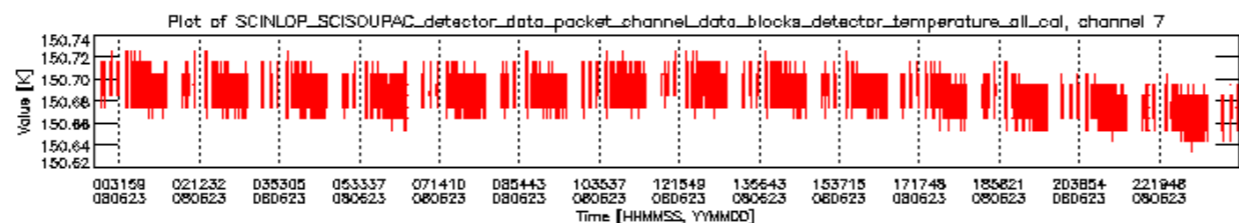
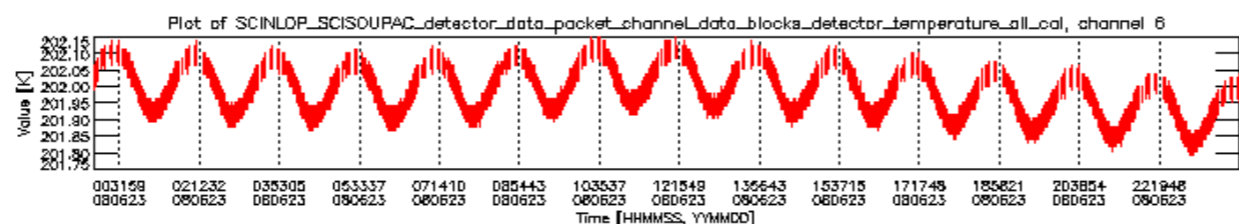
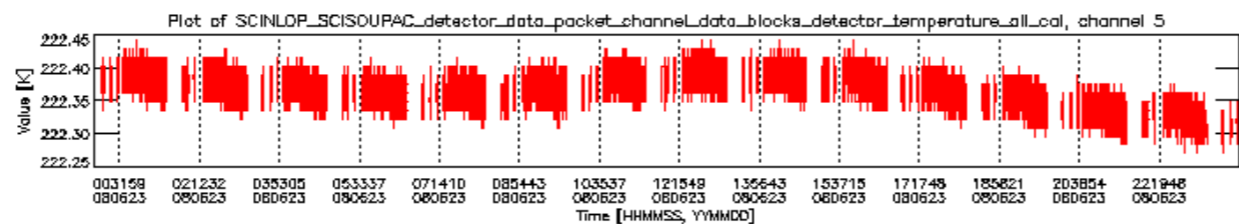
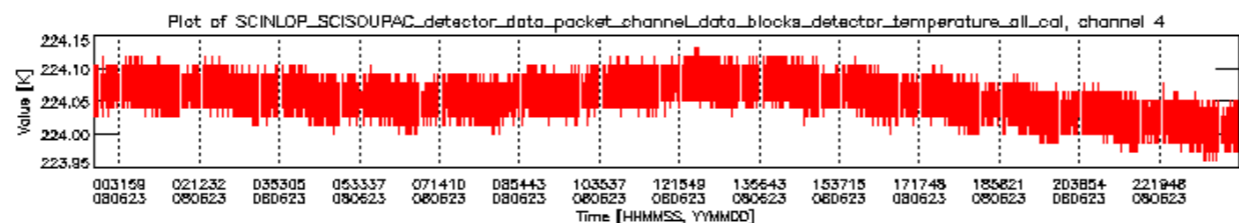
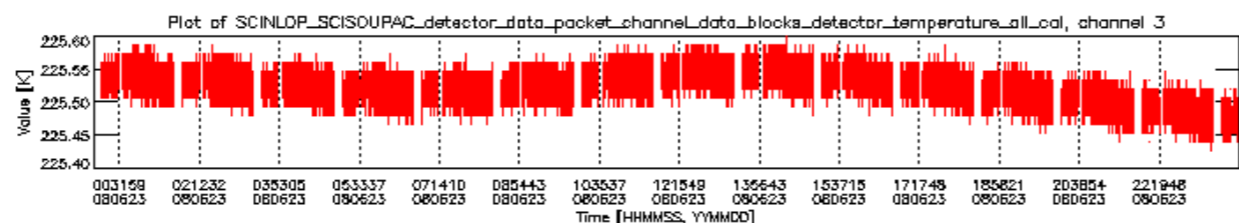
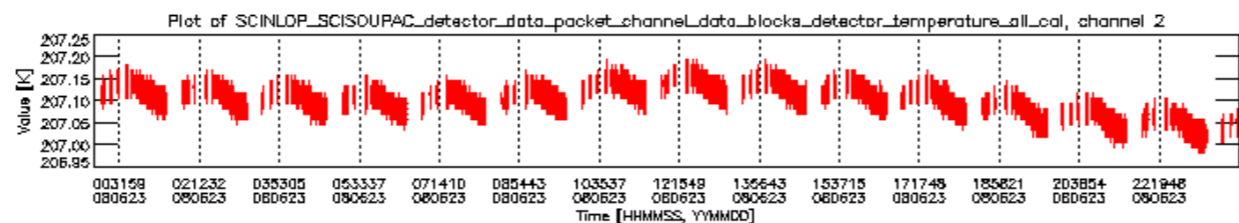
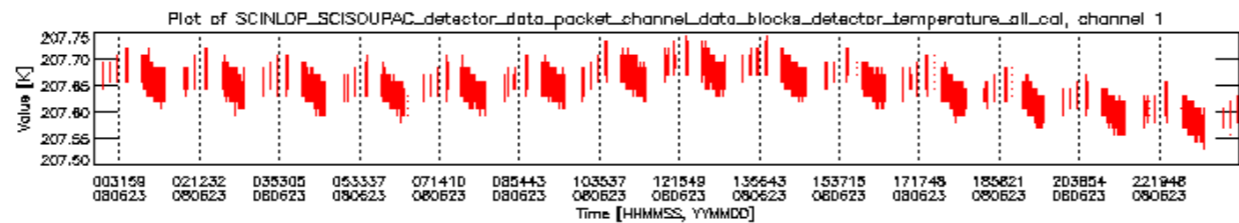




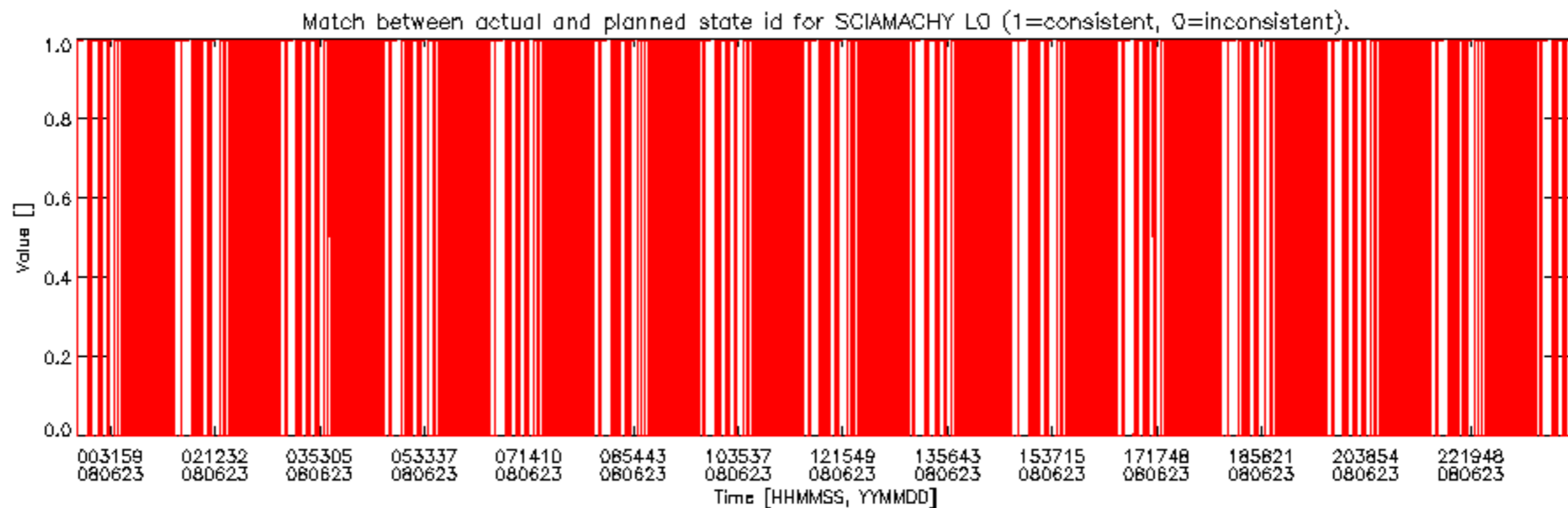
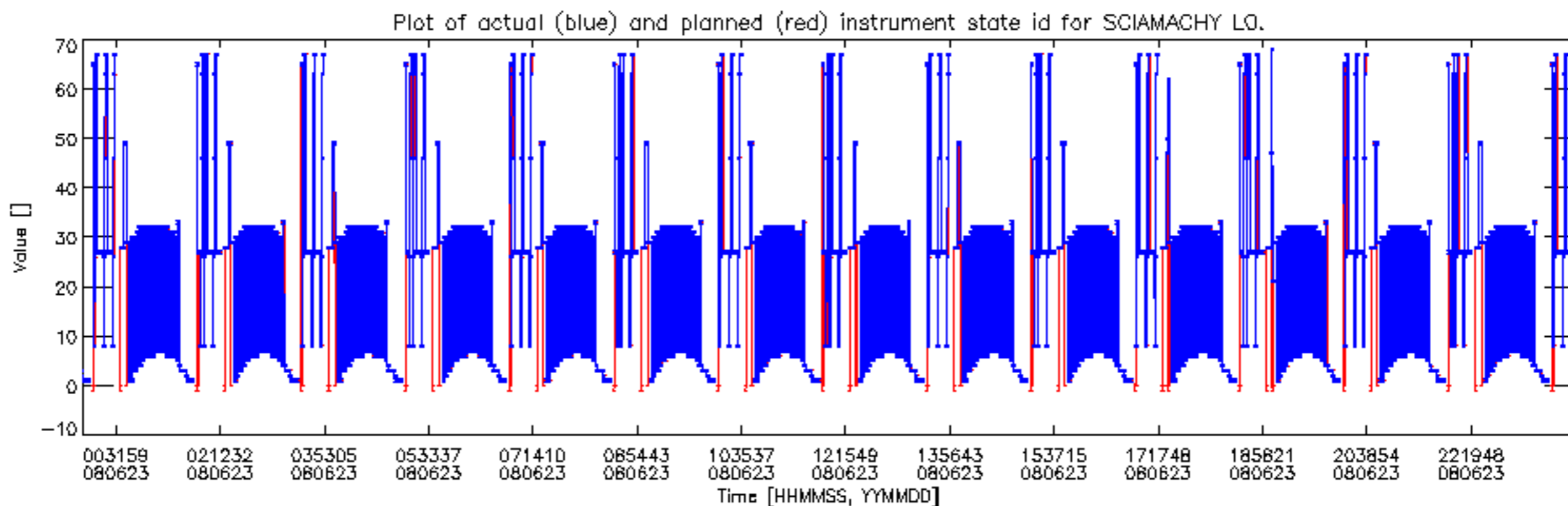




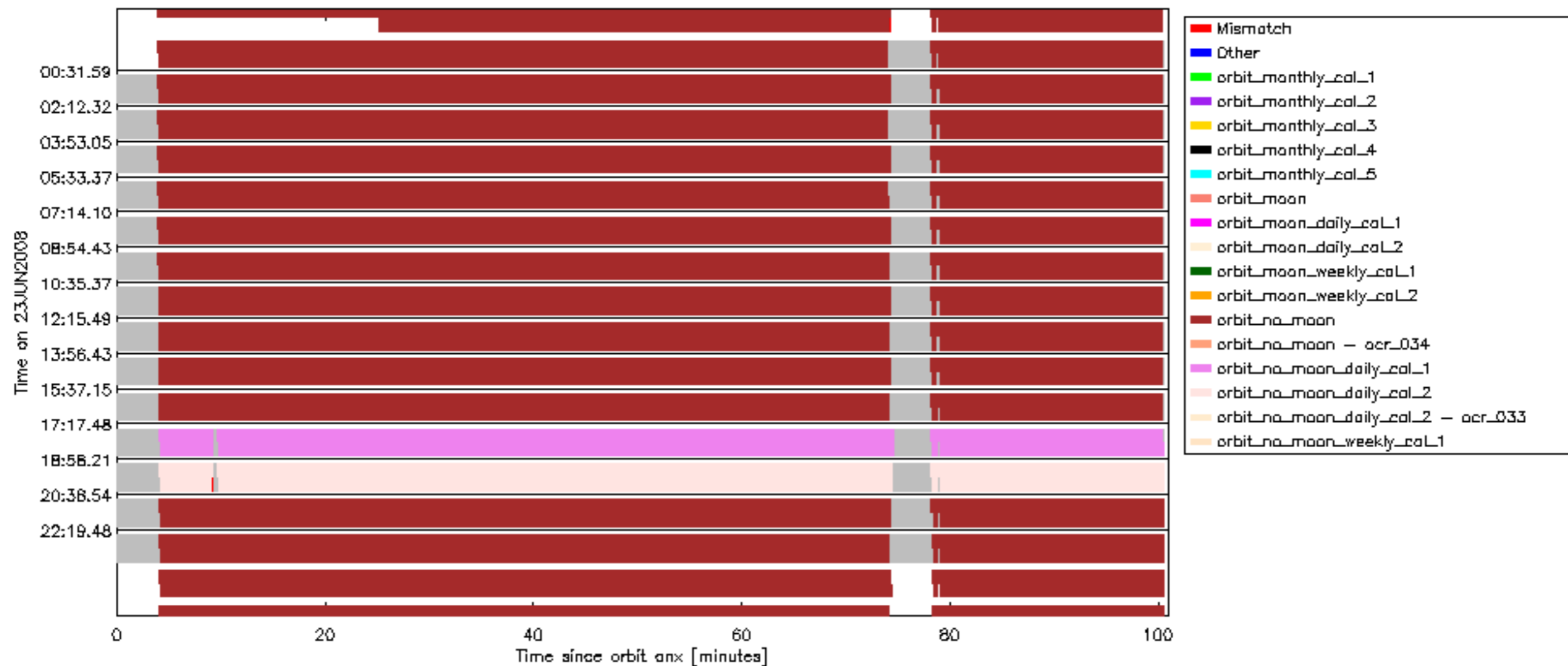


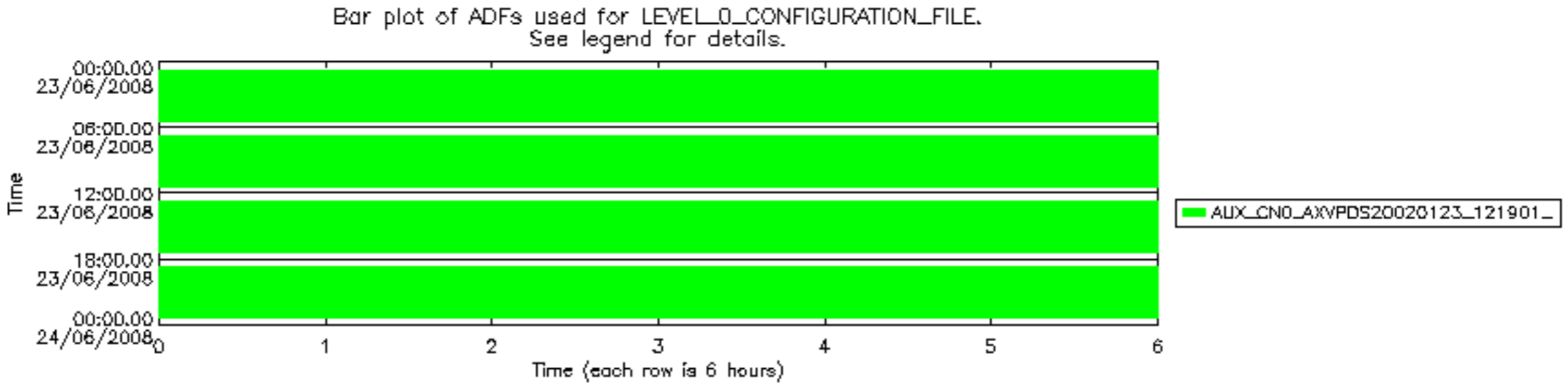






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 23JUN2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

