

## 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	19APR2010 02:35:09
Data source version	<Any version>
Processing scope for products	12APR2010 00:00:00 to 13APR2010 00:00:00
Start time of first product within scope	12APR2010 00:40:02
Stop time of last product within scope	13APR2010 00:08:18
Total number of Level 0 products	14
Number of Level 0 products with errors	1

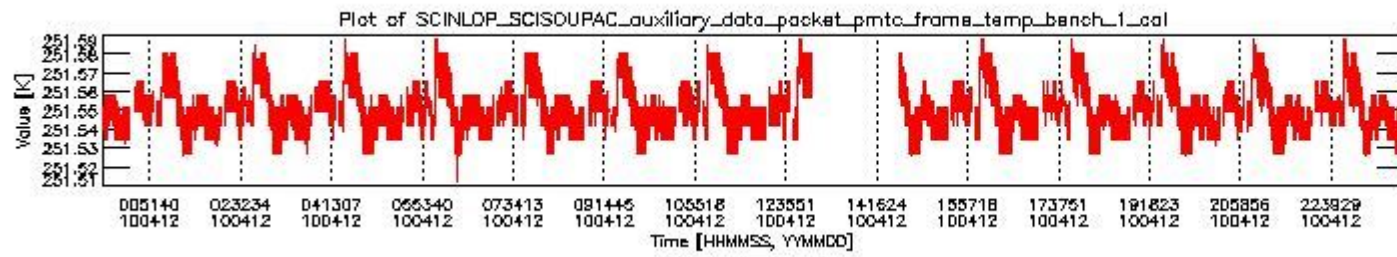
### 0.1.2 Summary per product

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

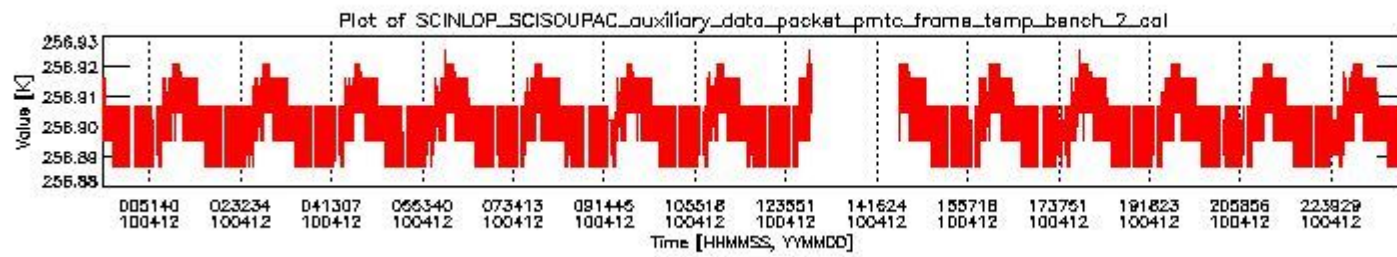
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100412_004002_000058282088_00288_42426_1254.N1	12APR2010 00:40:02	12APR2010 02:17:10	0	0	0	0	0
1	SCI_NL__OPNPDE20100412_021626_000045222088_00289_42427_1255.N1	12APR2010 02:16:26	12APR2010 03:31:47	0	0	0	0	0
2	SCI_NL__OPNPDE20100412_033147_000061042088_00290_42428_1256.N1	12APR2010 03:31:47	12APR2010 05:13:32	0	0	0	0	0
3	SCI_NL__OPNPDE20100412_051332_000060912088_00291_42429_1257.N1	12APR2010 05:13:32	12APR2010 06:55:03	0	0	0	0	0
4	SCI_NL__OPNPDK20100412_065407_000041132088_00292_42430_1113.N1	12APR2010 06:54:07	12APR2010 08:02:41	0	0	0	0	0
5	SCI_NL__OPNPDK20100412_080132_000061602088_00293_42431_1114.N1	12APR2010 08:01:32	12APR2010 09:44:12	0	0	0	0	0
6	SCI_NL__OPNPDK20100412_094303_000059802088_00294_42432_1115.N1	12APR2010 09:43:03	12APR2010 11:22:43	1	1	0	0	0
7	SCI_NL__OPNPDK20100412_112243_000060352088_00295_42433_1116.N1	12APR2010 11:22:43	12APR2010 13:03:18	0	0	0	0	0
8	SCI_NL__OPNPDK20100412_144054_000057182088_00297_42435_1118.N1	12APR2010 14:40:54	12APR2010 16:16:12	0	0	0	0	0
9	SCI_NL__OPNPDK20100412_161503_000060682088_00298_42436_1119.N1	12APR2010 16:15:03	12APR2010 17:56:11	0	0	0	0	0
10	SCI_NL__OPNPDK20100412_175502_000059242088_00299_42437_1120.N1	12APR2010 17:55:02	12APR2010 19:33:46	0	0	0	0	0
11	SCI_NL__OPNPDE20100412_193210_000044092088_00300_42438_1258.N1	12APR2010 19:32:10	12APR2010 20:45:39	0	0	0	0	0
12	SCI_NL__OPNPDE20100412_204416_000062952088_00300_42438_1259.N1	12APR2010 20:44:16	12APR2010 22:29:10	0	0	0	0	0
13	SCI_NL__OPNPDE20100412_222703_000060752088_00301_42439_1260.N1	12APR2010 22:27:03	13APR2010 00:08:18	0	0	0	0	0

## 0.2 Product Quality Indicators

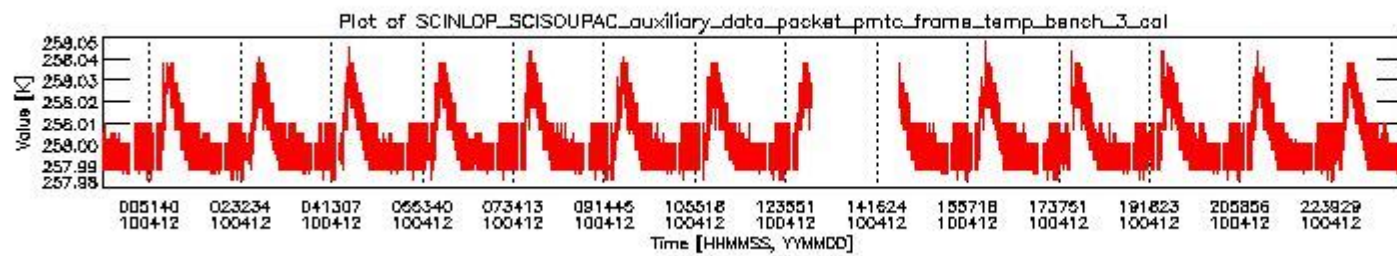
This section shows information about product quality, currently temperatures.



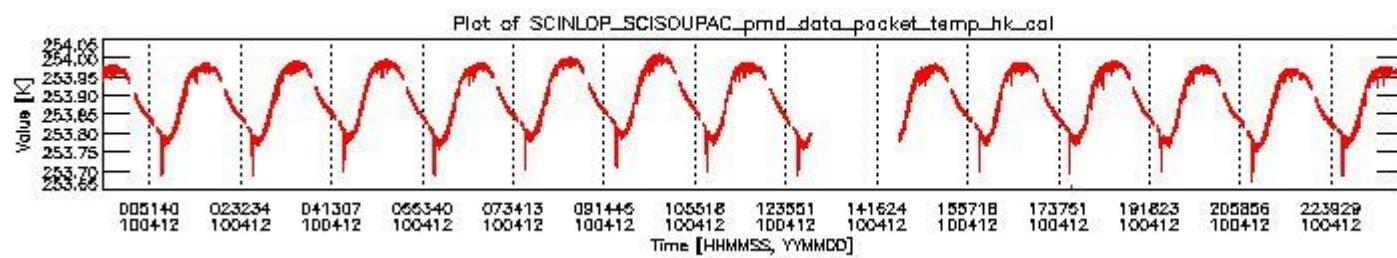
sciamachy\_daily\_report\_level0\_Any\_version\_20100412\_0.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100412\_1.PNG

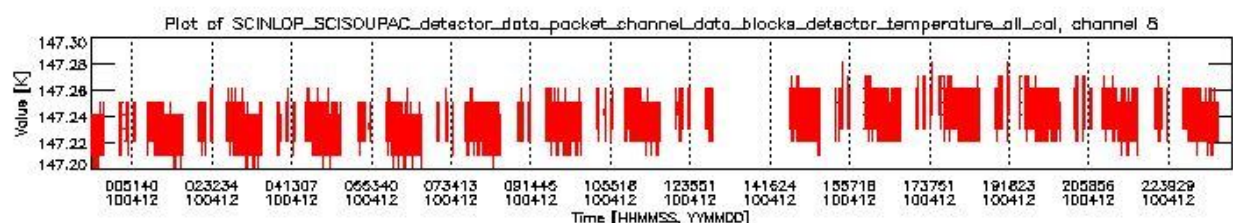
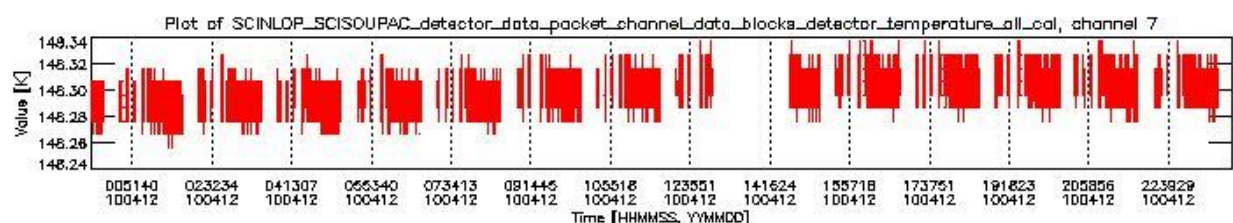
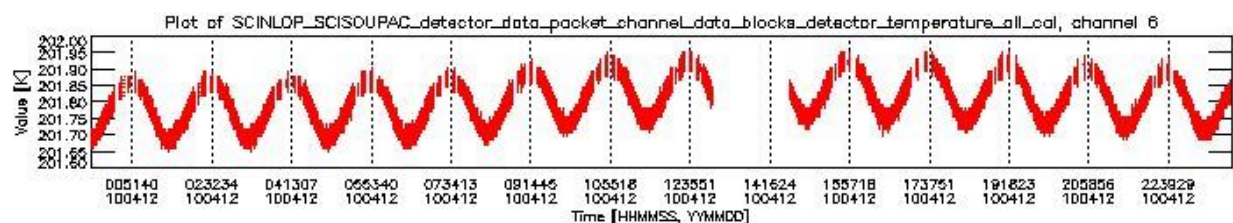
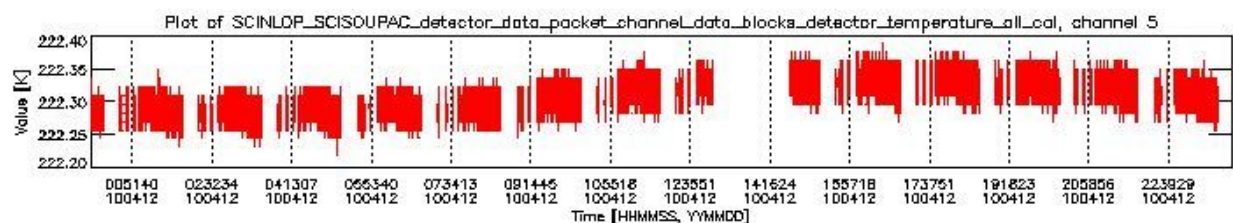
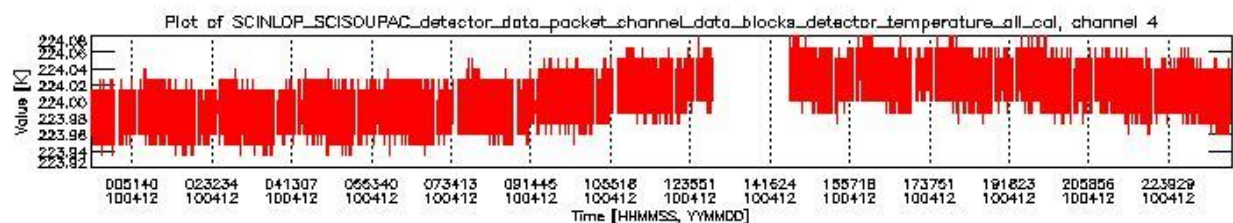
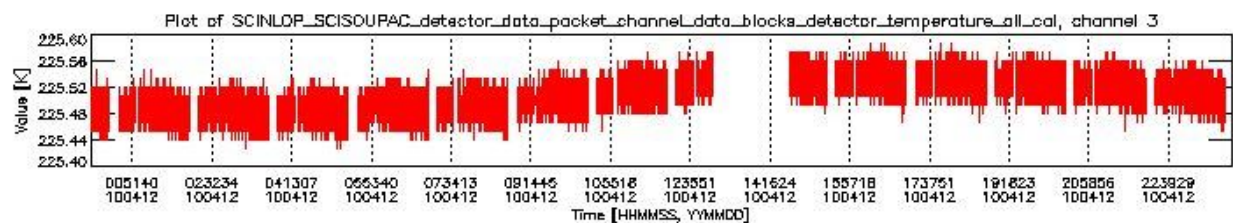
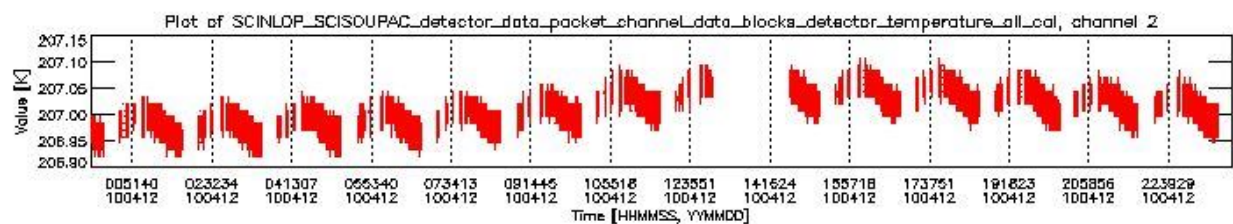
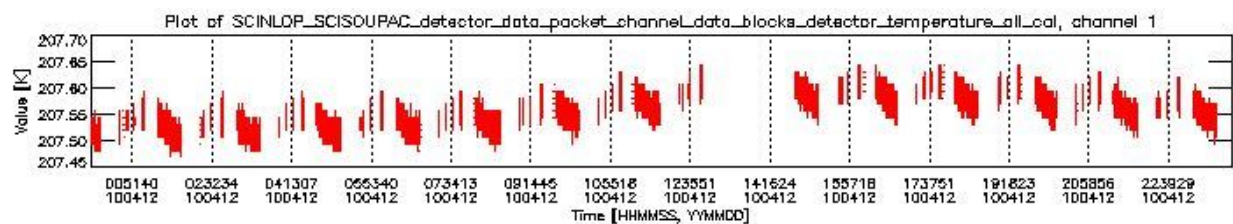


sciamachy\_daily\_report\_level0\_Any\_version\_20100412\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100412\_3.PNG



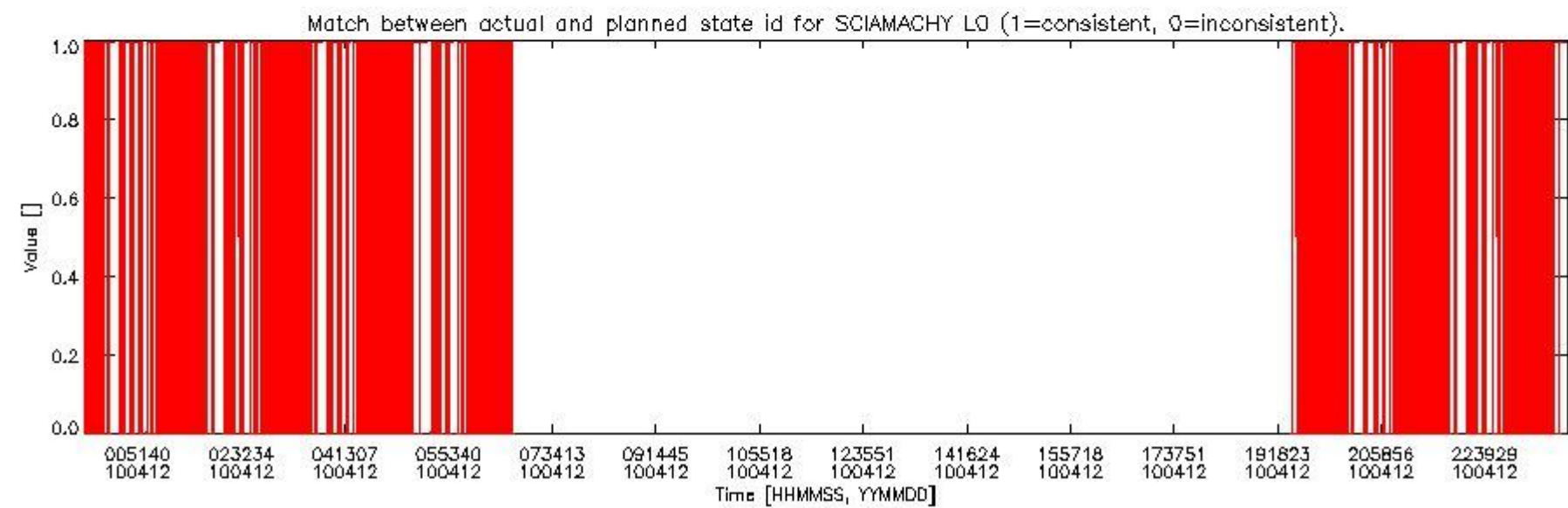
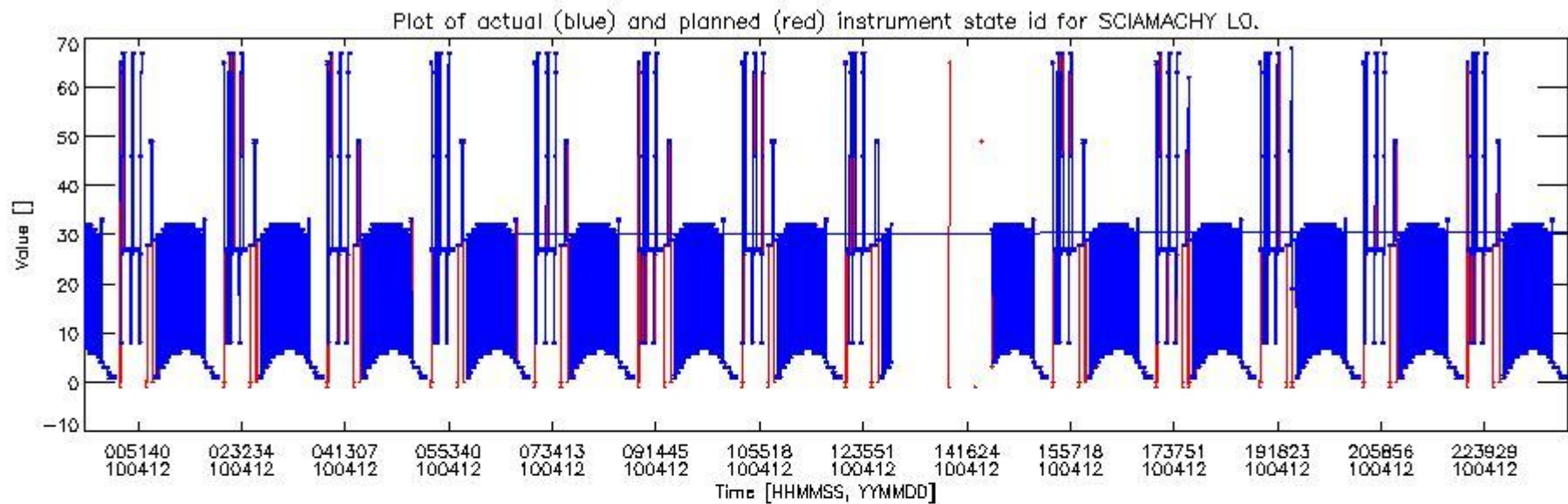


### 0.3 State monitoring

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: **42028**

#	Actual time	Actual value	Planned time	Planned value
0	12APR2010 00:00:14.915548	7	12APR2010 00:00:14.915548	32
1	12APR2010 00:00:15.290548	7	12APR2010 00:00:15.290548	32
2	12APR2010 00:00:15.540548	7	12APR2010 00:00:15.540548	32
3	12APR2010 00:00:15.790548	7	12APR2010 00:00:15.790548	32
4	12APR2010 00:00:16.040548	7	12APR2010 00:00:16.040548	32
5	12APR2010 00:00:16.290548	7	12APR2010 00:00:16.290548	32
6	12APR2010 00:00:16.540548	7	12APR2010 00:00:16.540548	32
7	12APR2010 00:00:16.790548	7	12APR2010 00:00:16.790548	32
8	12APR2010 00:00:17.040548	7	12APR2010 00:00:17.040548	32
9	12APR2010 00:00:17.290548	7	12APR2010 00:00:17.290548	32
10	12APR2010 00:00:17.540548	7	12APR2010 00:00:17.540548	32
11	12APR2010 00:00:17.790548	7	12APR2010 00:00:17.790548	32
12	12APR2010 00:00:18.040548	7	12APR2010 00:00:18.040548	32
13	12APR2010 00:00:18.290548	7	12APR2010 00:00:18.290548	32
14	12APR2010 00:00:18.540548	7	12APR2010 00:00:18.540548	32
15	12APR2010 00:00:18.790548	7	12APR2010 00:00:18.790548	32
16	12APR2010 00:00:19.040548	7	12APR2010 00:00:19.040548	32
17	12APR2010 00:00:19.290548	7	12APR2010 00:00:19.290548	32
18	12APR2010 00:00:19.540548	7	12APR2010 00:00:19.540548	32
19	12APR2010 00:00:19.790548	7	12APR2010 00:00:19.790548	32
	...	...	...	...



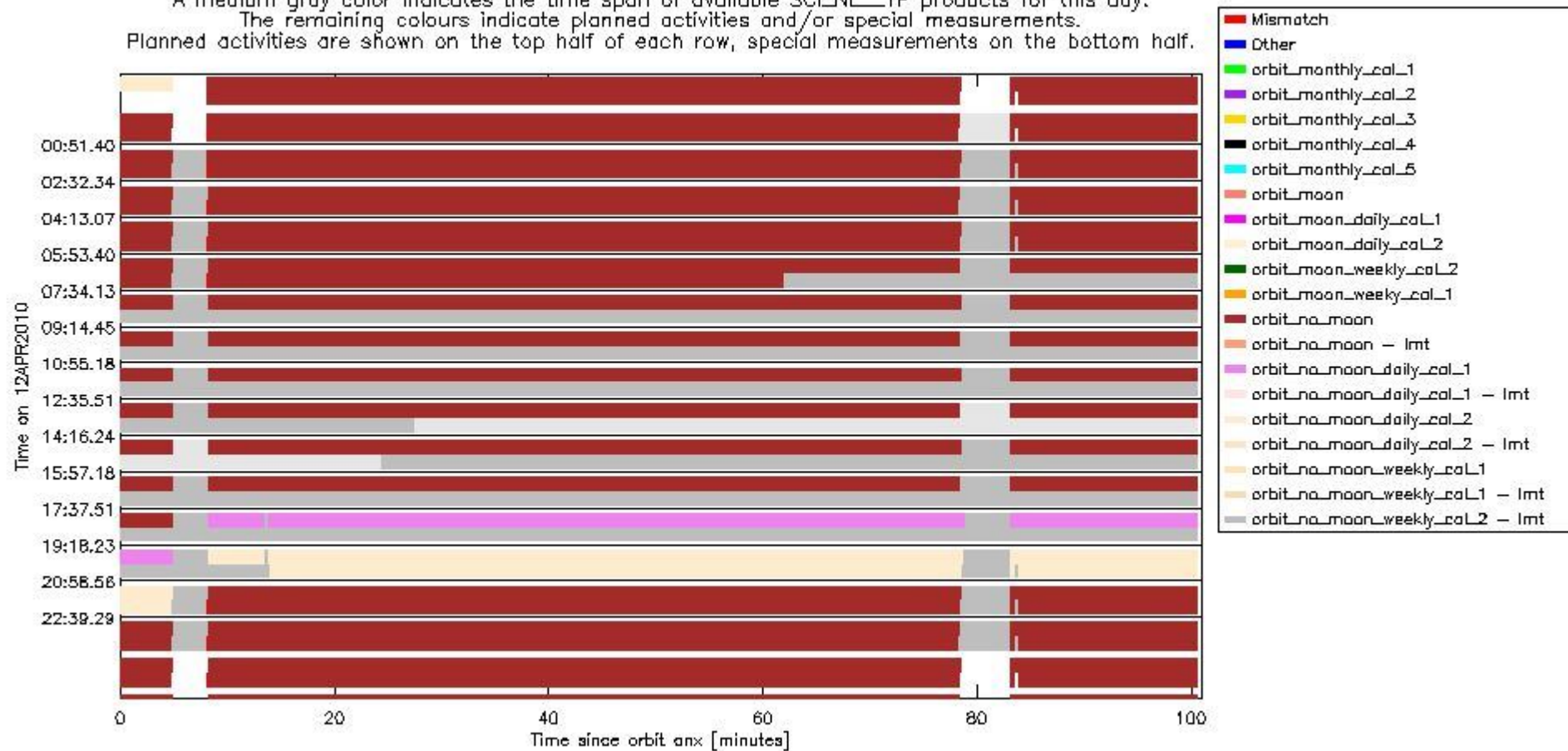
sciamachy\_daily\_report\_level0\_Any\_version\_20100412\_5.PNG

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 12APR2010.  
 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\_Any\_version\_20100412\_6.PNG

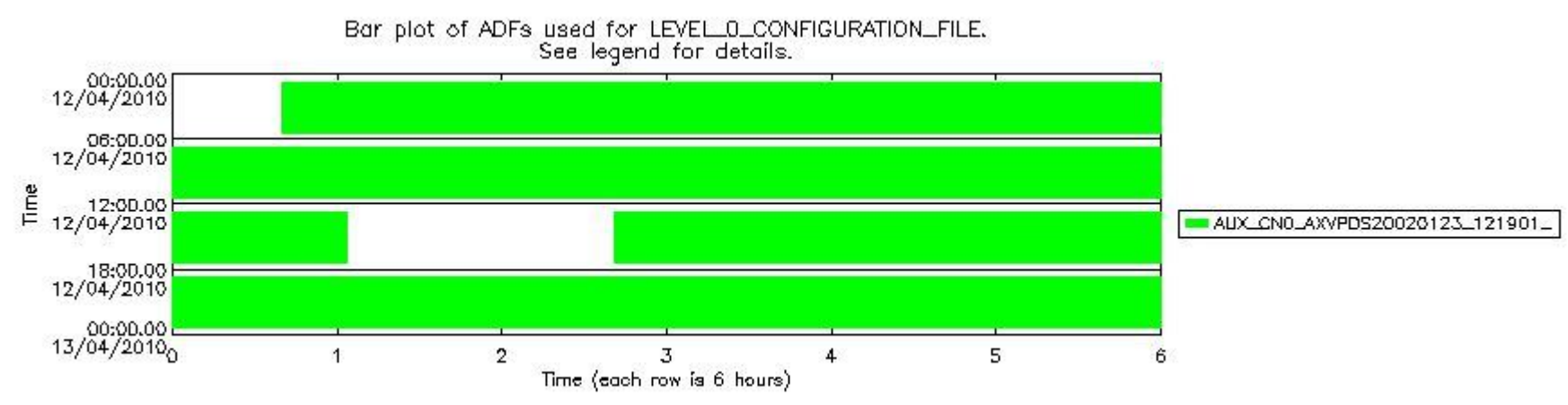
## 0.4 ADF monitoring

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

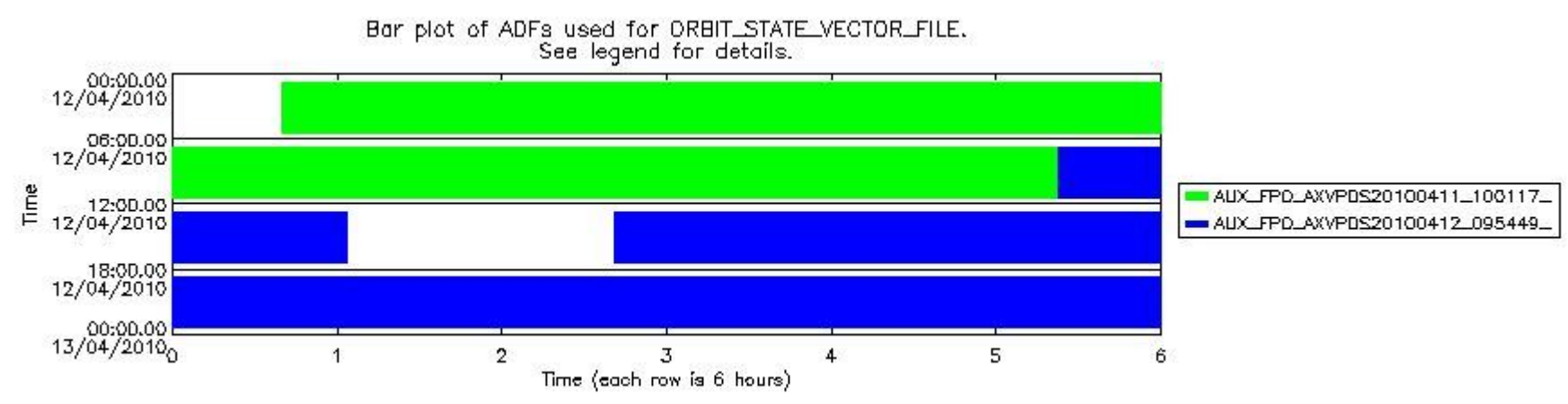
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

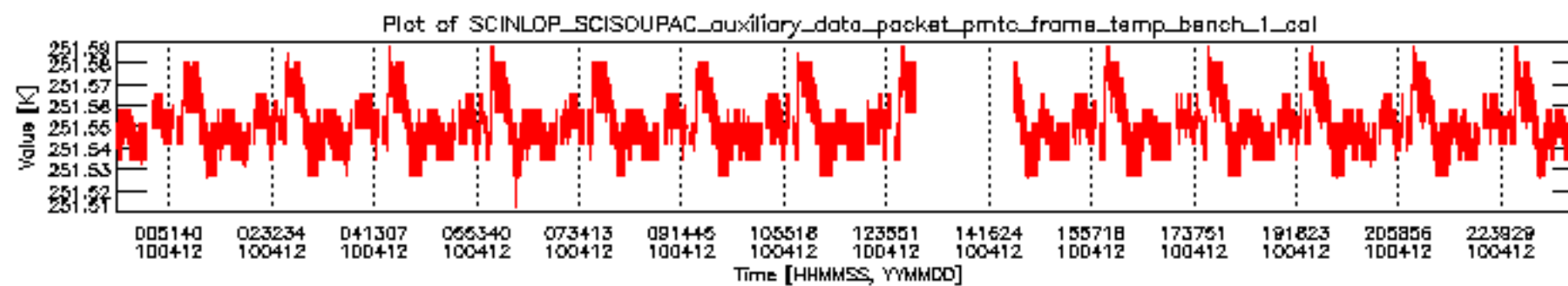
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20100411_100117_20100410_184101_20100420_200713
2	AUX_FPO_AXVPDS20100412_095449_20100411_195000_20100421_211612



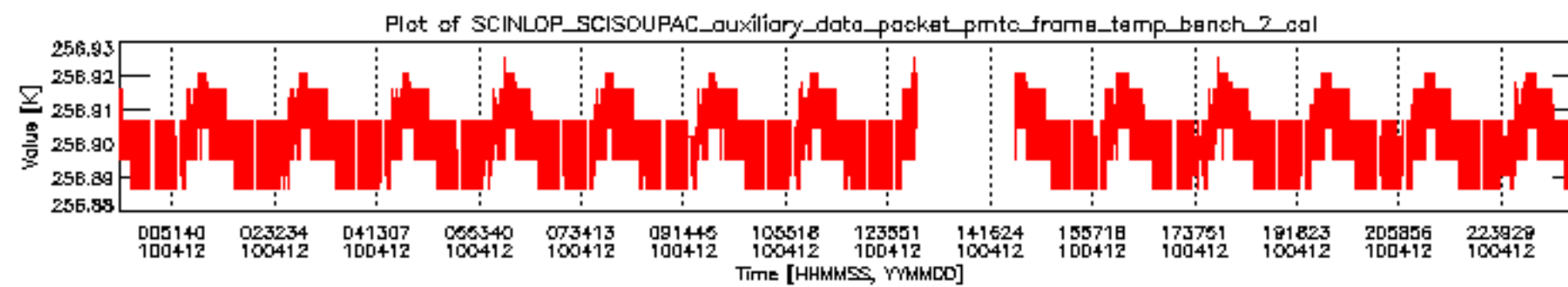
sciamachy\_daily\_report\_level0\_Any\_version\_20100412\_7.PNG

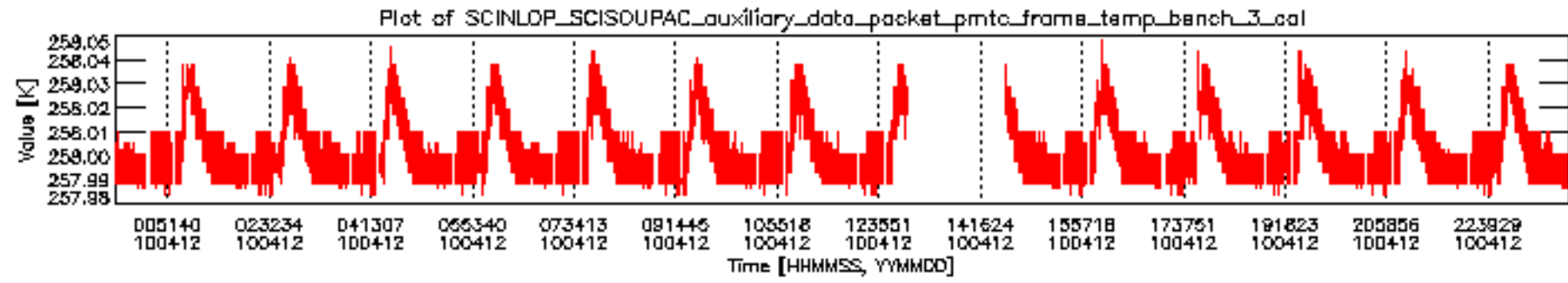


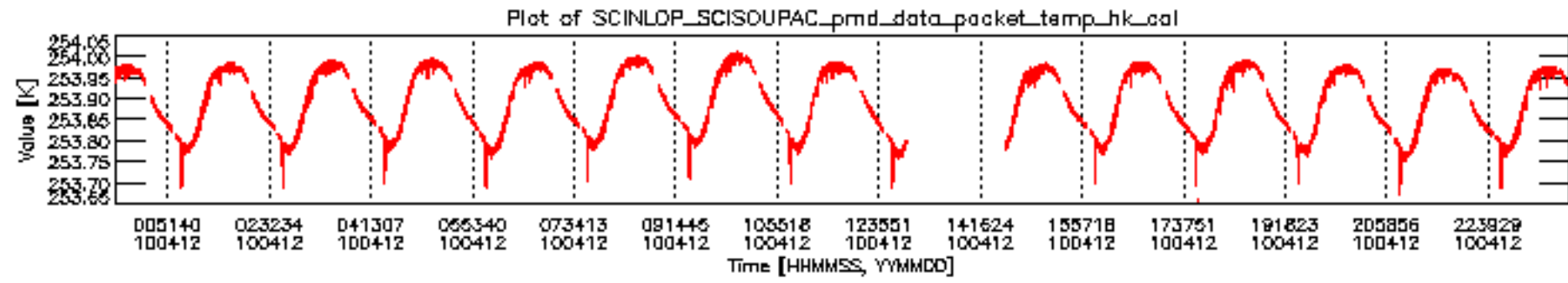
sciamachy\_daily\_report\_level0\_Any\_version\_20100412\_8.PNG

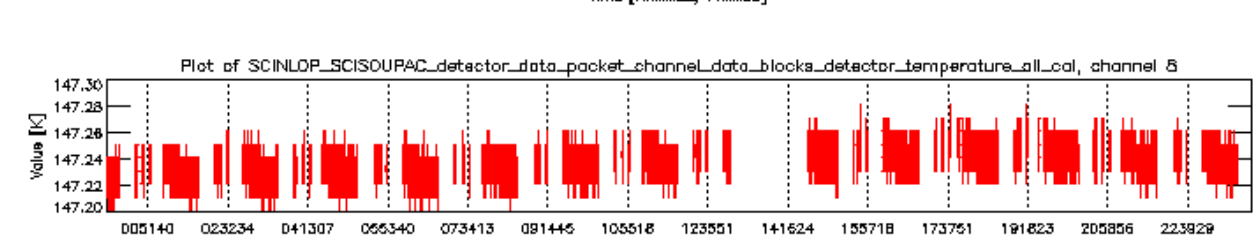
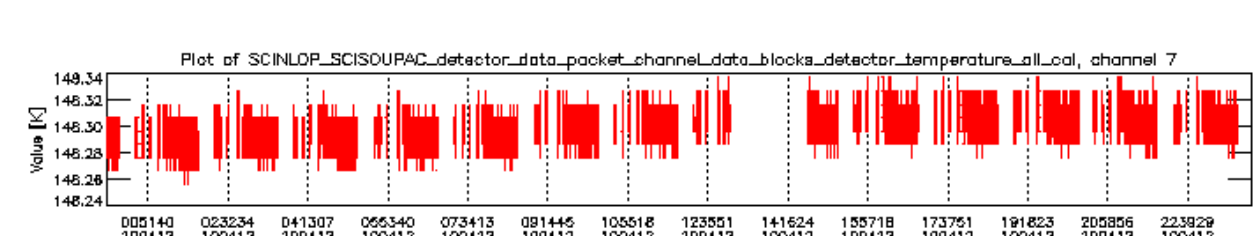
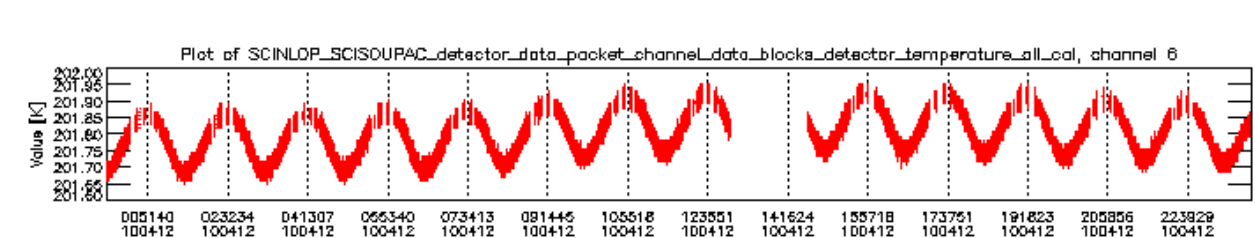
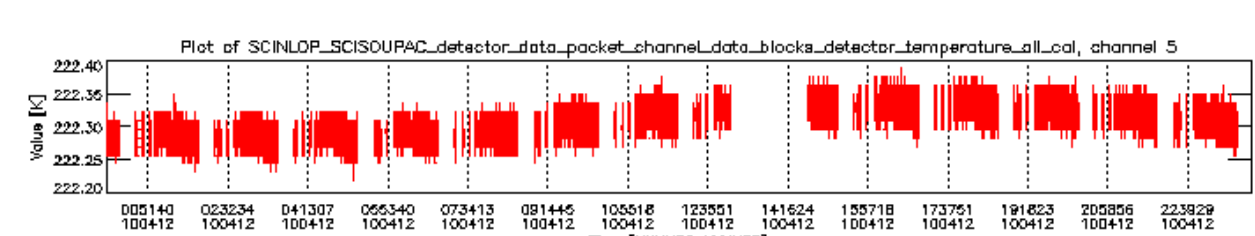
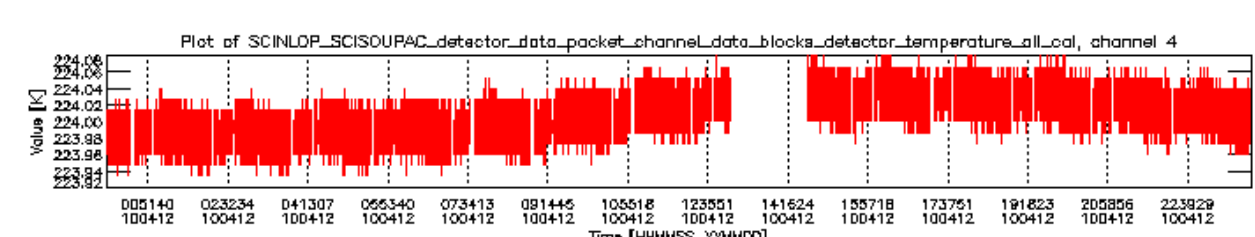
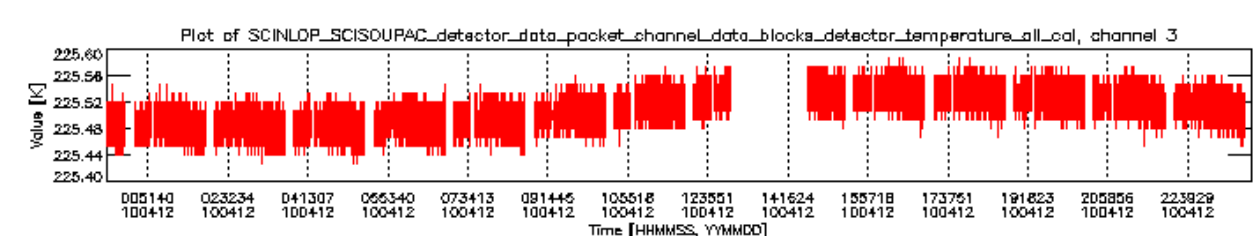
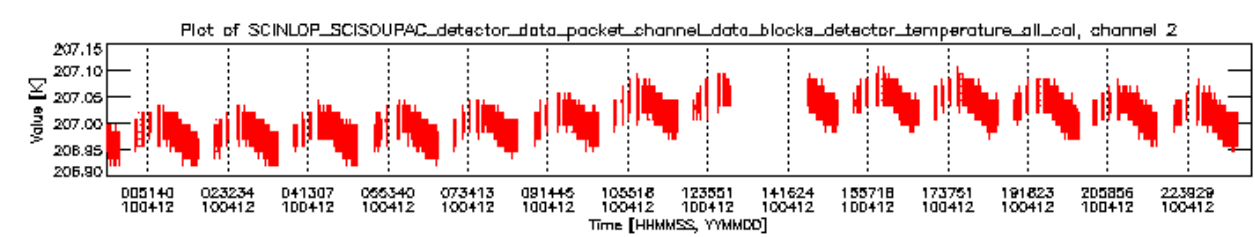
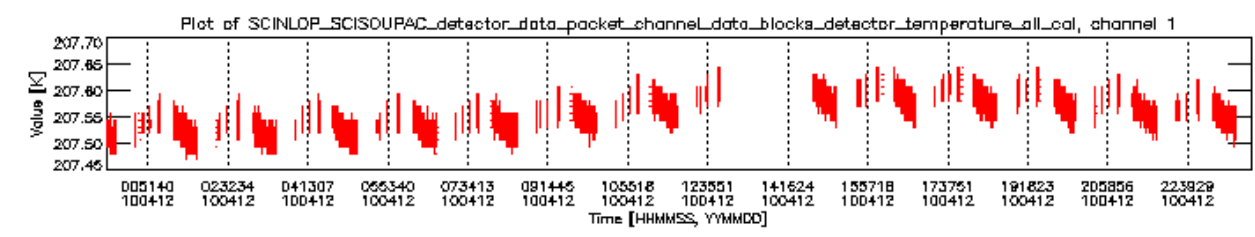




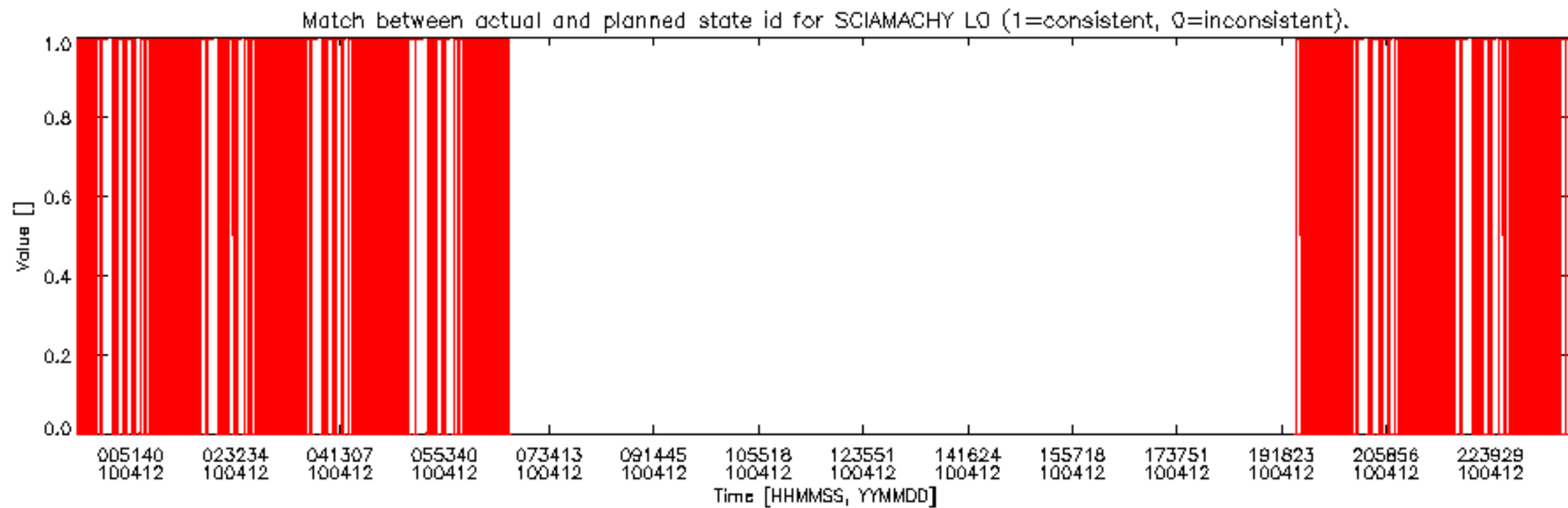
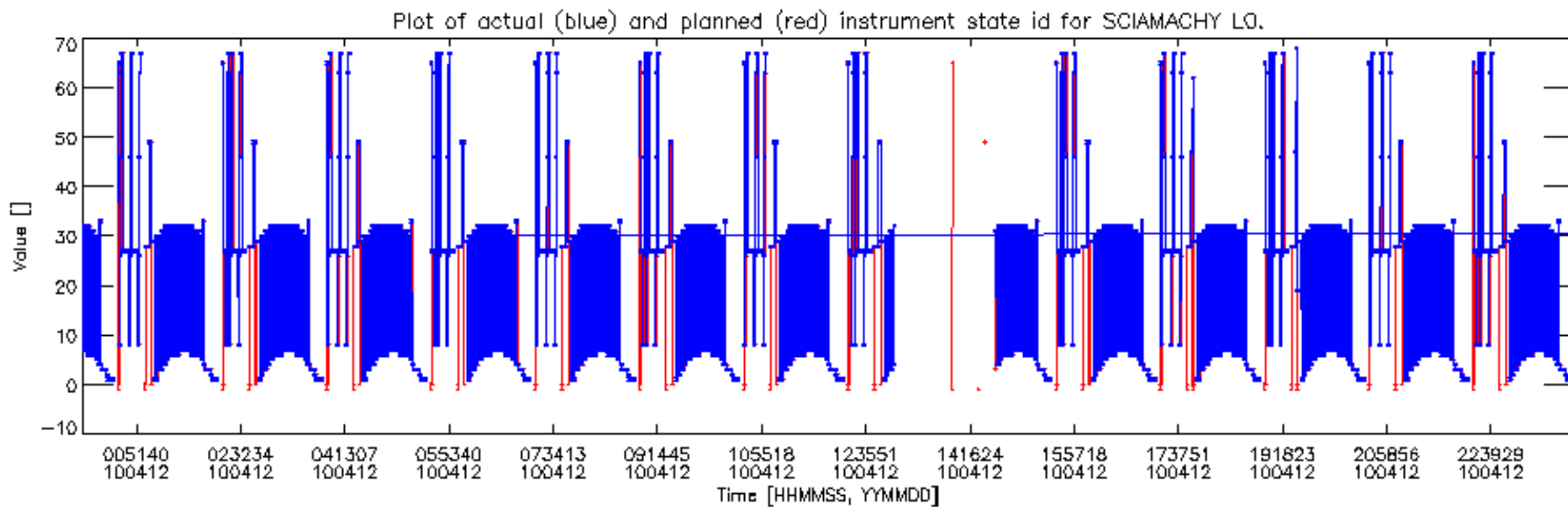




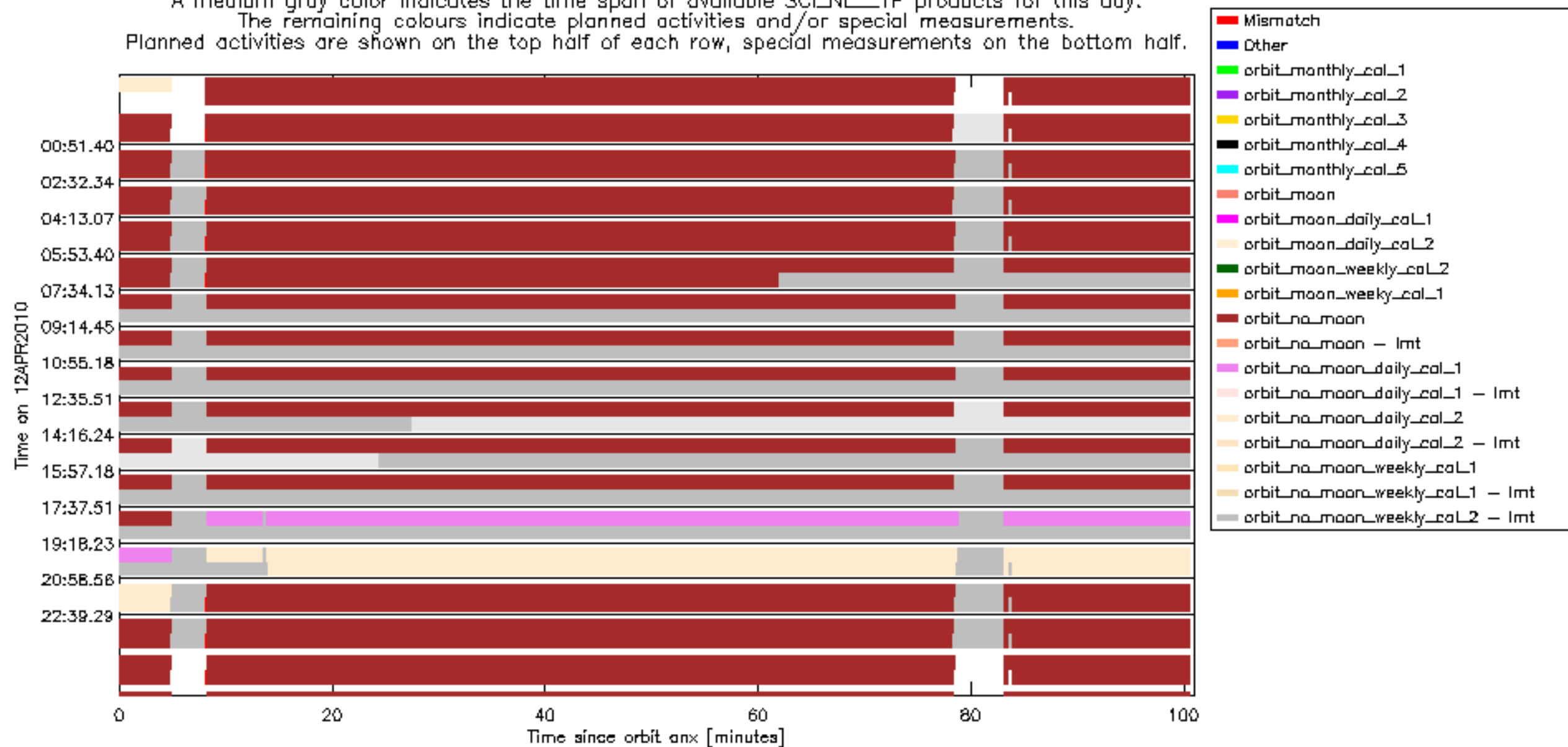


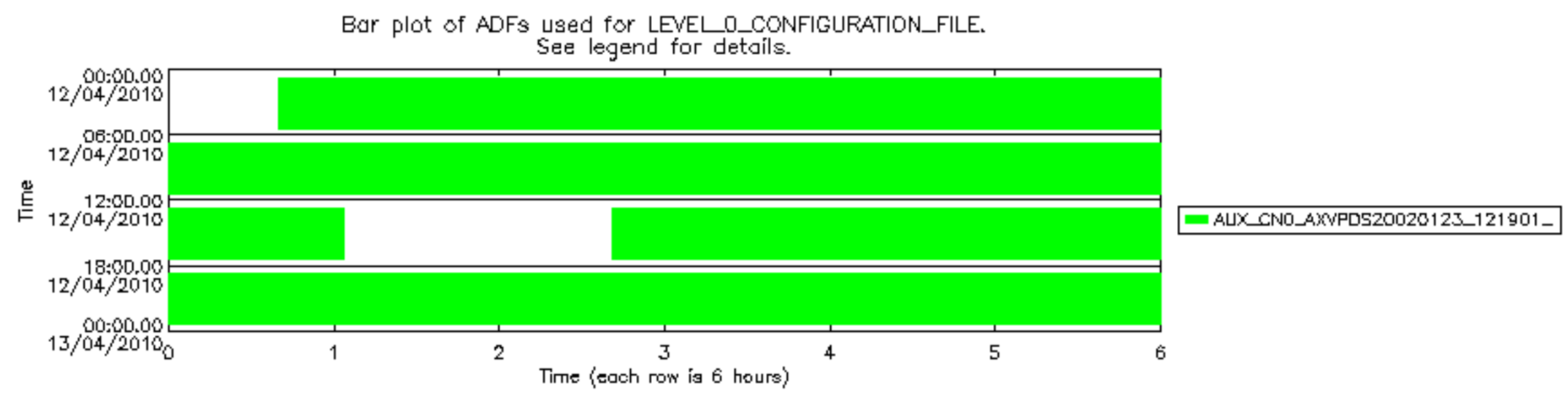






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 12APR2010.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

