

## 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	v1.3 20060731
Time of report generation	14MAR2010 01:23:26
Data source version	KSPT_L0/4303-N
Processing scope for products	10MAR2010 00:00:00 to 11MAR2010 00:00:00
Start time of first product within scope	09MAR2010 23:36:23
Stop time of last product within scope	11MAR2010 00:46:41
Total number of level 0 products	15
Number of level 0 products with errors	0

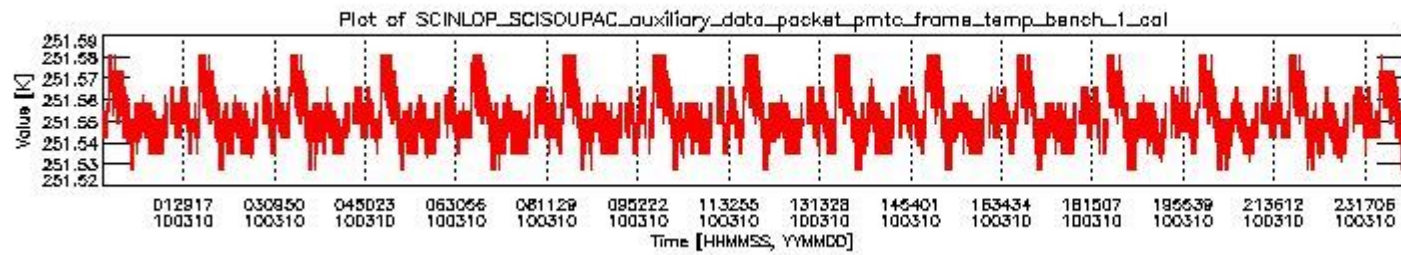
### 0.1.2 Summary per product

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

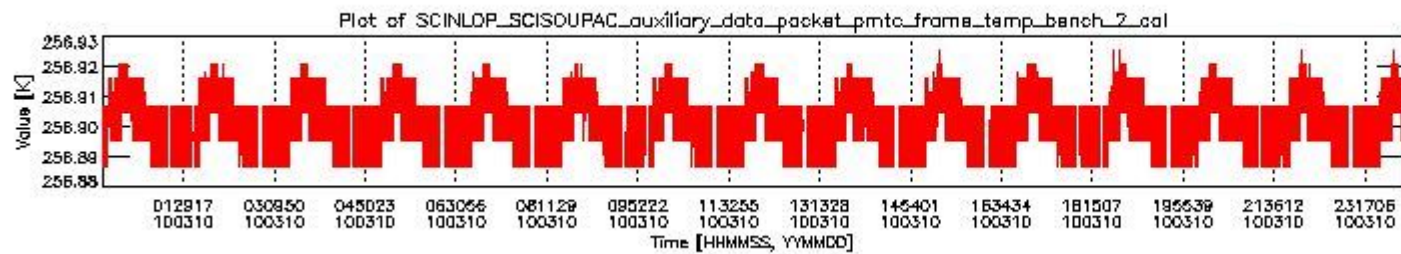
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100309_233623_000060792087_00316_41953_1046.N1	09MAR2010 23:36:23	10MAR2010 01:17:42	0	0	0	0	0
1	SCI_NL__OPNPDE20100310_011658_000096122087_00317_41954_1047.N1	10MAR2010 01:16:58	10MAR2010 03:57:09	0	0	0	0	0
2	SCI_NL__OPNPDE20100310_035614_000069622087_00319_41956_1048.N1	10MAR2010 03:56:14	10MAR2010 05:52:16	0	0	0	0	0
3	SCI_NL__OPNPDE20100310_055216_000061602087_00320_41957_1049.N1	10MAR2010 05:52:16	10MAR2010 07:34:56	0	0	0	0	0
4	SCI_NL__OPNPDK20100310_073400_000039072087_00321_41958_4298.N1	10MAR2010 07:34:00	10MAR2010 08:39:08	0	0	0	0	0
5	SCI_NL__OPNPDK20100310_083812_000061602087_00322_41959_4299.N1	10MAR2010 08:38:12	10MAR2010 10:20:51	0	0	0	0	0
6	SCI_NL__OPNPDK20100310_101956_000060232087_00323_41960_4300.N1	10MAR2010 10:19:56	10MAR2010 12:00:18	0	0	0	0	0
7	SCI_NL__OPNPDK20100310_115922_000059112087_00324_41961_4301.N1	10MAR2010 11:59:22	10MAR2010 13:37:53	0	0	0	0	0
8	SCI_NL__OPNPDK20100310_133658_000059672087_00325_41962_4302.N1	10MAR2010 13:36:58	10MAR2010 15:16:24	0	0	0	0	0
9	SCI_NL__OPNPDK20100310_151516_000058682087_00326_41963_4303.N1	10MAR2010 15:15:16	10MAR2010 16:53:04	0	0	0	0	0
10	SCI_NL__OPNPDK20100310_165208_000060212087_00327_41964_4304.N1	10MAR2010 16:52:08	10MAR2010 18:32:29	0	0	0	0	0
11	SCI_NL__OPNPDK20100310_183229_000060352087_00328_41965_4305.N1	10MAR2010 18:32:29	10MAR2010 20:13:04	0	0	0	0	0
12	SCI_NL__OPNPDE20100310_201101_000044252087_00329_41966_1050.N1	10MAR2010 20:11:01	10MAR2010 21:24:46	0	0	0	0	0
13	SCI_NL__OPNPDE20100310_212318_000062032087_00329_41966_1051.N1	10MAR2010 21:23:18	10MAR2010 23:06:42	0	0	0	0	0
14	SCI_NL__OPNPDE20100310_230521_000060802087_00330_41967_1052.N1	10MAR2010 23:05:21	11MAR2010 00:46:41	0	0	0	0	0

## 0.2 Product Quality Indicators

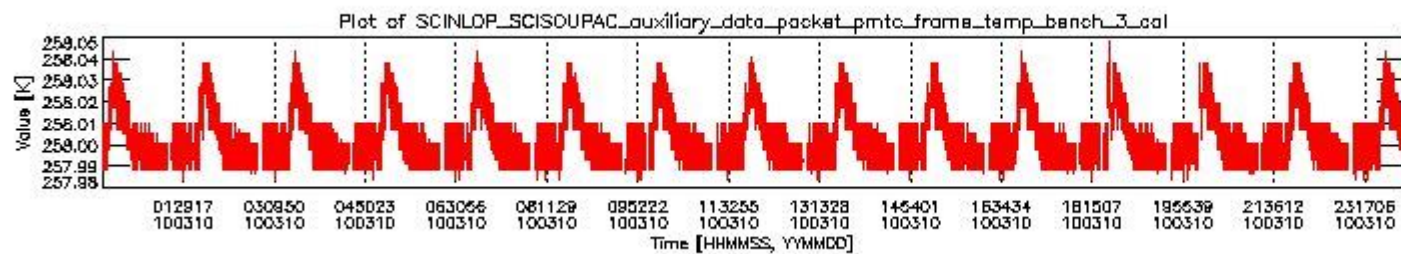
This section shows information about product quality, currently temperatures.



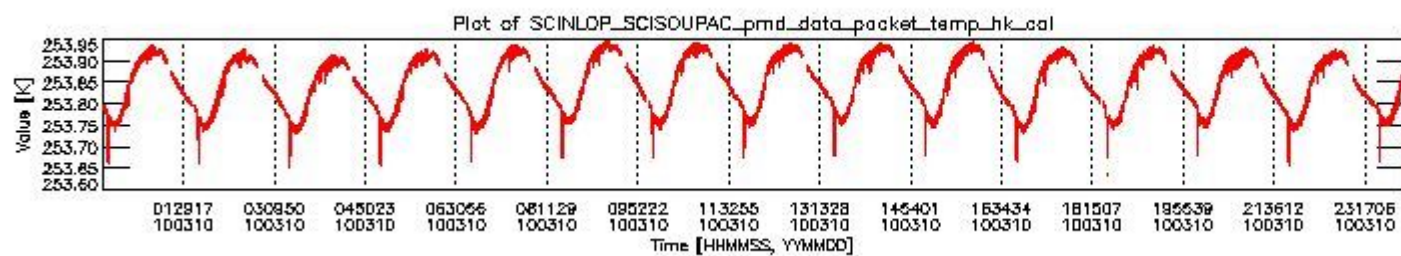
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100310\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100310\_1.PNG

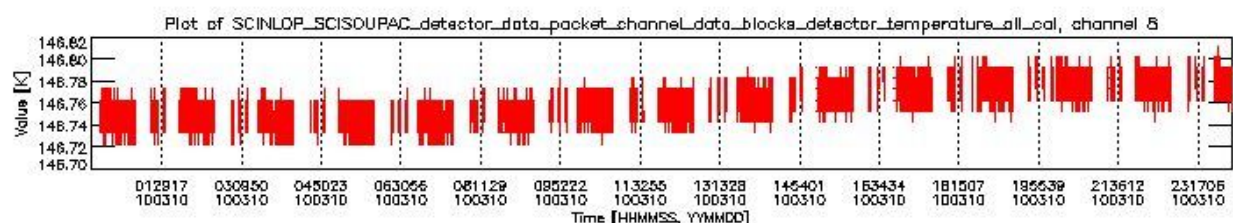
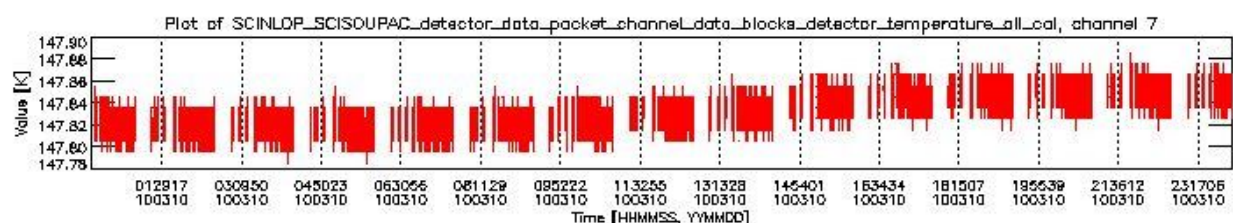
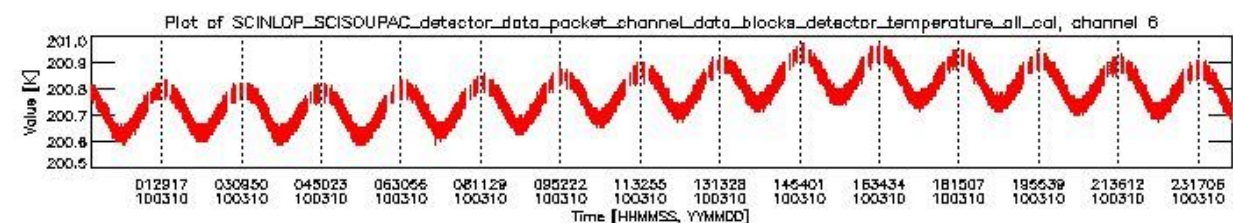
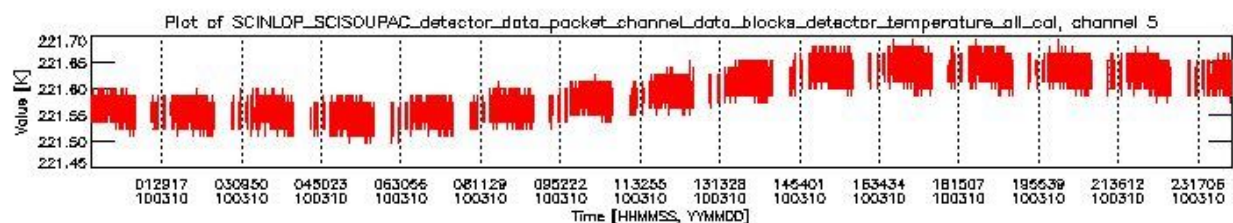
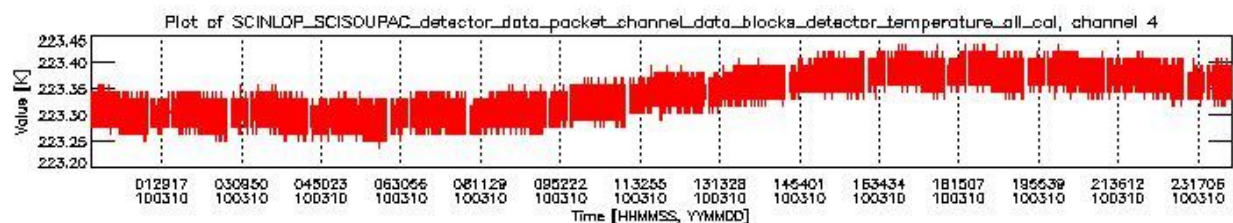
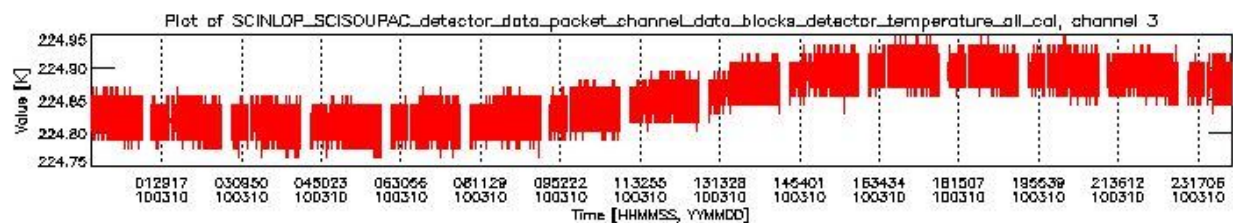
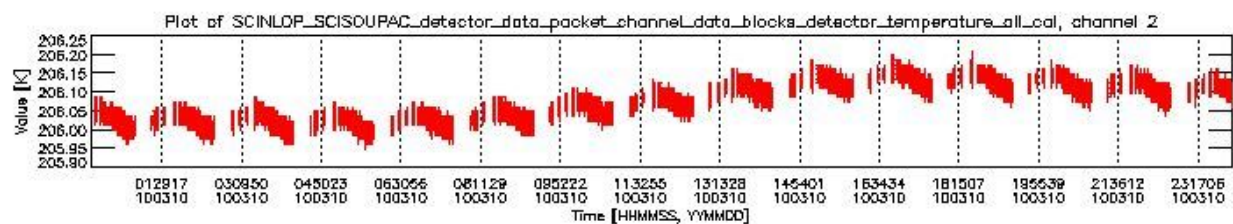
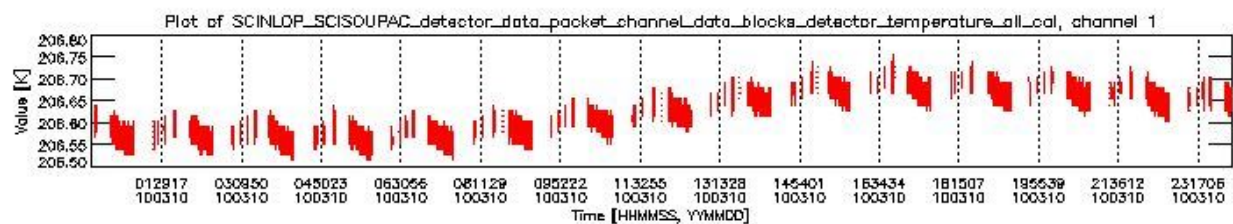


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100310\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100310\_3.PNG



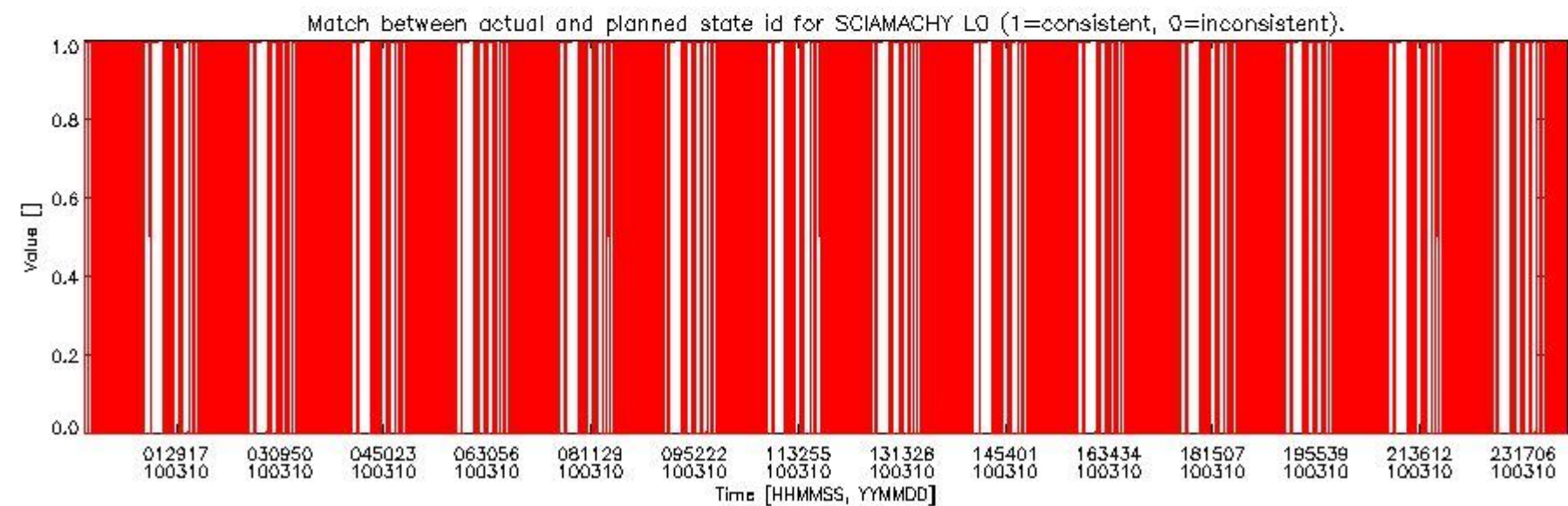
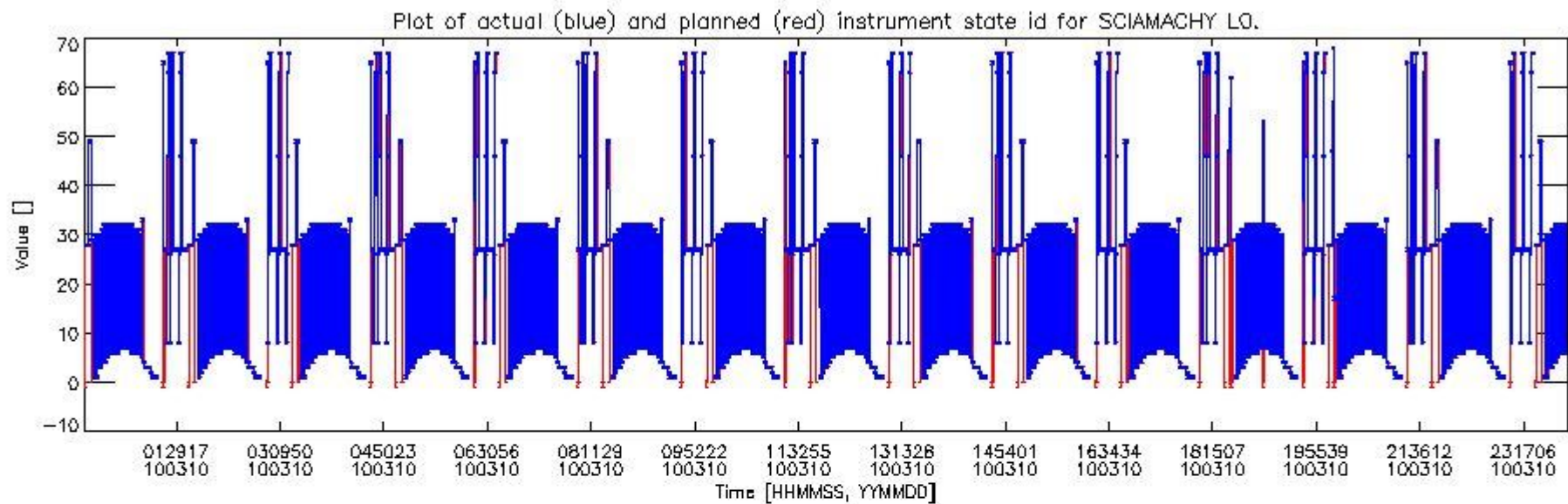


### 0.3 State monitoring

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: **75058**

#	Actual time	Actual value	Planned time	Planned value
0	10MAR2010 00:00:11.459054	28	10MAR2010 00:00:11.459054	-1
1	10MAR2010 00:00:12.084054	28	10MAR2010 00:00:12.084054	-1
2	10MAR2010 00:00:12.459054	28	10MAR2010 00:00:12.459054	-1
3	10MAR2010 00:00:12.834054	28	10MAR2010 00:00:12.834054	-1
4	10MAR2010 00:00:13.396554	28	10MAR2010 00:00:13.396554	0
5	10MAR2010 00:00:13.771554	28	10MAR2010 00:00:13.771554	0
6	10MAR2010 00:00:14.146554	28	10MAR2010 00:00:14.146554	0
7	10MAR2010 00:00:14.521554	28	10MAR2010 00:00:14.521554	0
8	10MAR2010 00:00:15.084054	28	10MAR2010 00:00:15.084054	0
9	10MAR2010 00:00:15.459054	28	10MAR2010 00:00:15.459054	0
10	10MAR2010 00:00:15.834054	28	10MAR2010 00:00:15.834054	0
11	10MAR2010 00:00:16.209054	28	10MAR2010 00:00:16.209054	0
12	10MAR2010 00:00:16.459054	28	10MAR2010 00:00:16.459054	0
13	10MAR2010 00:00:16.771554	28	10MAR2010 00:00:16.771554	0
14	10MAR2010 00:00:17.146554	28	10MAR2010 00:00:17.146554	0
15	10MAR2010 00:00:17.521554	28	10MAR2010 00:00:17.521554	0
16	10MAR2010 00:00:17.896554	28	10MAR2010 00:00:17.896554	0
17	10MAR2010 00:00:18.459054	28	10MAR2010 00:00:18.459054	0
18	10MAR2010 00:00:18.834054	28	10MAR2010 00:00:18.834054	0
19	10MAR2010 00:00:19.209054	28	10MAR2010 00:00:19.209054	0
...	...	...	...	...



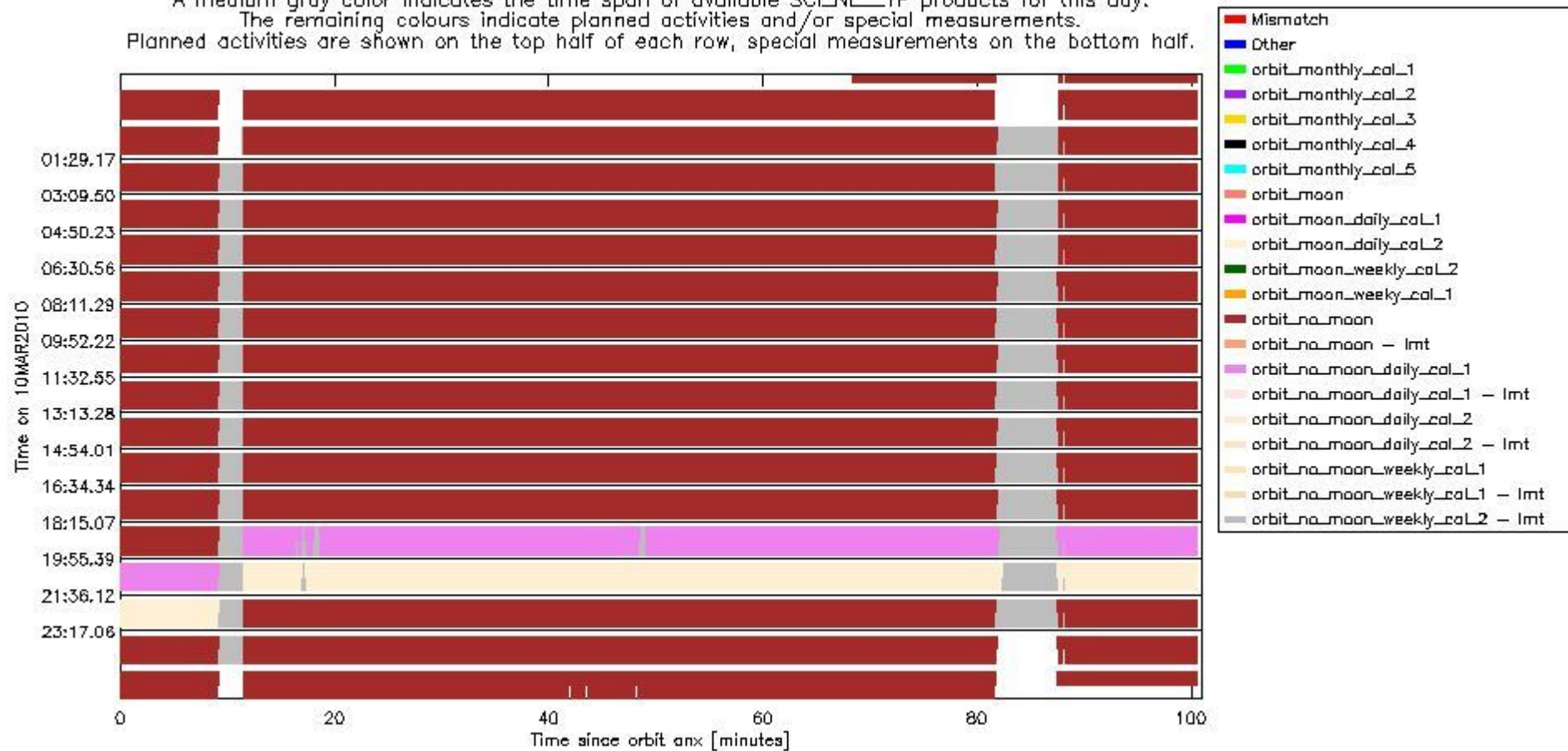
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100310\_5.PNG

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 10MAR2010.  
 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\_20100310\_6.PNG

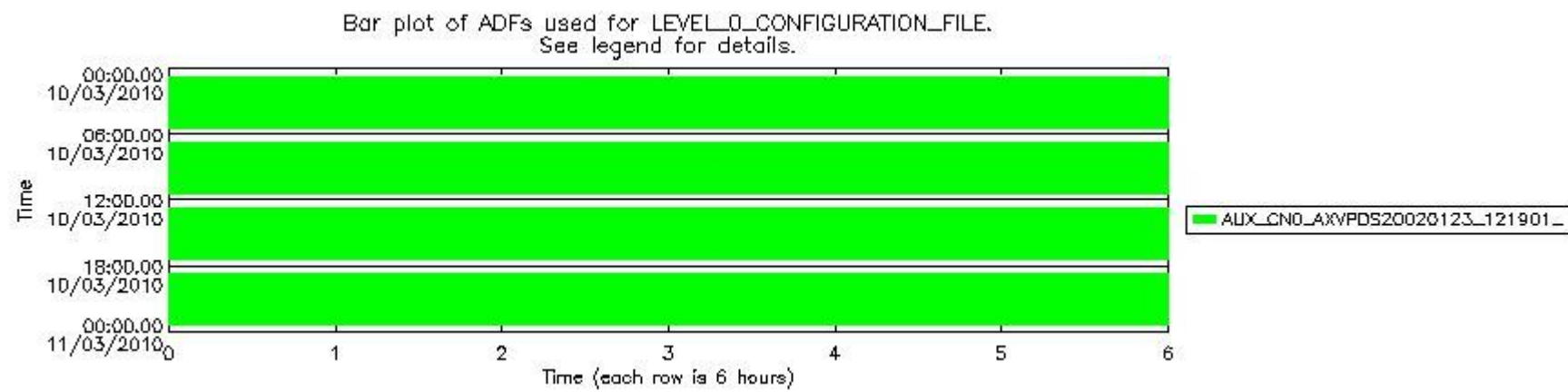
## 0.4 ADF monitoring

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

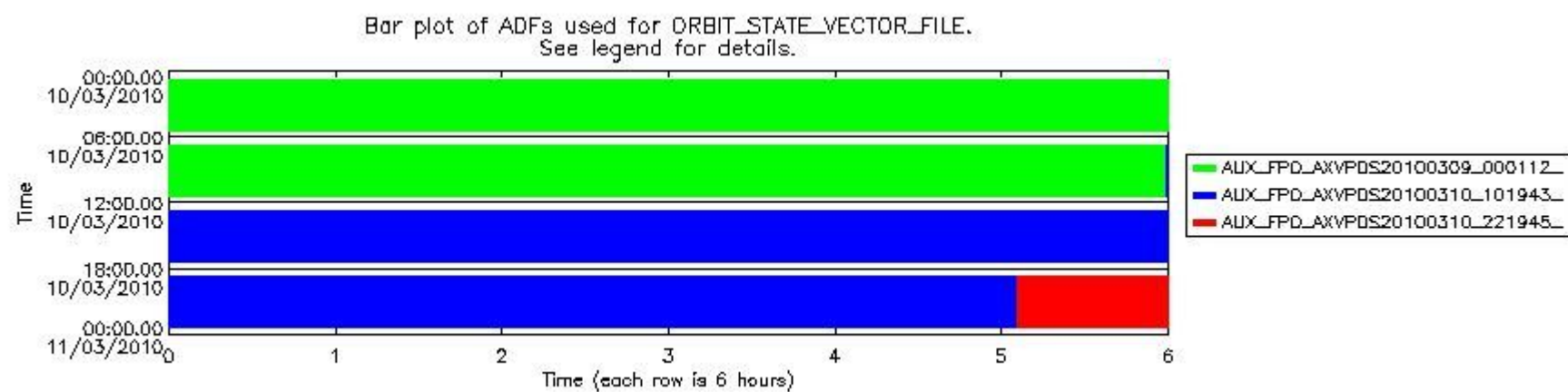
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

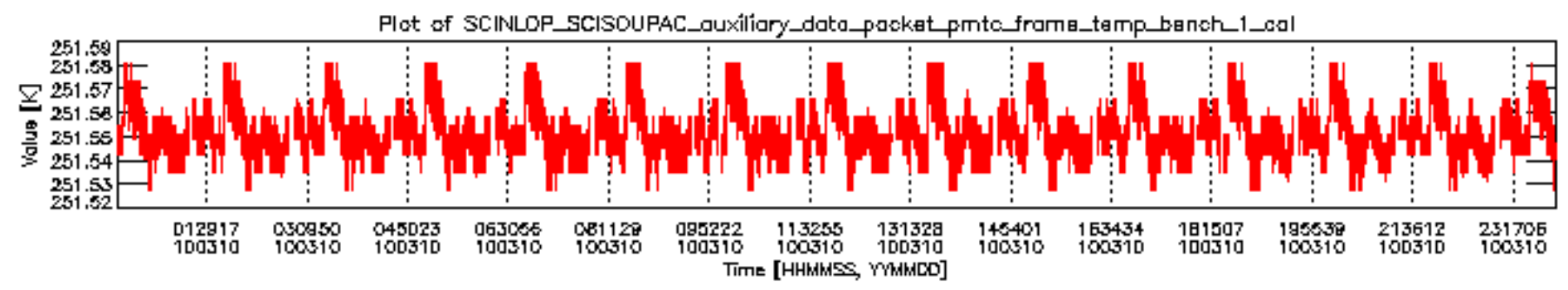
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20100309_000112_20100308_191824_20100318_204438</b>
2	<b>AUX_FPO_AXVPDS20100310_101943_20100309_184647_20100319_201301</b>
3	<b>AUX_FPO_AXVPDS20100310_221945_20100310_195546_20100320_212200</b>



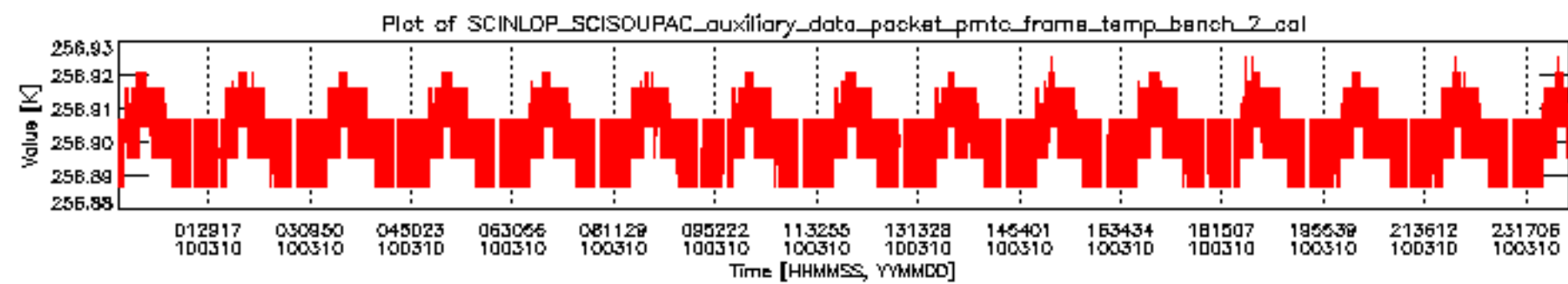
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100310\_7.PNG

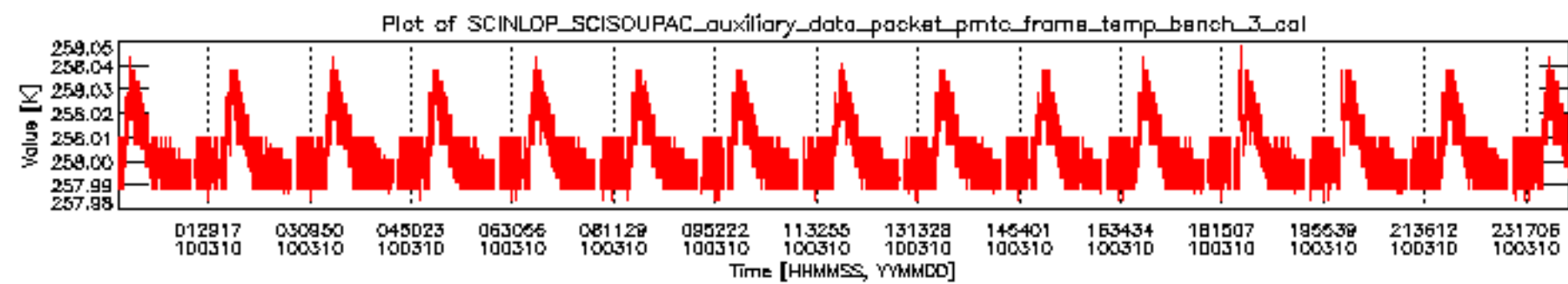


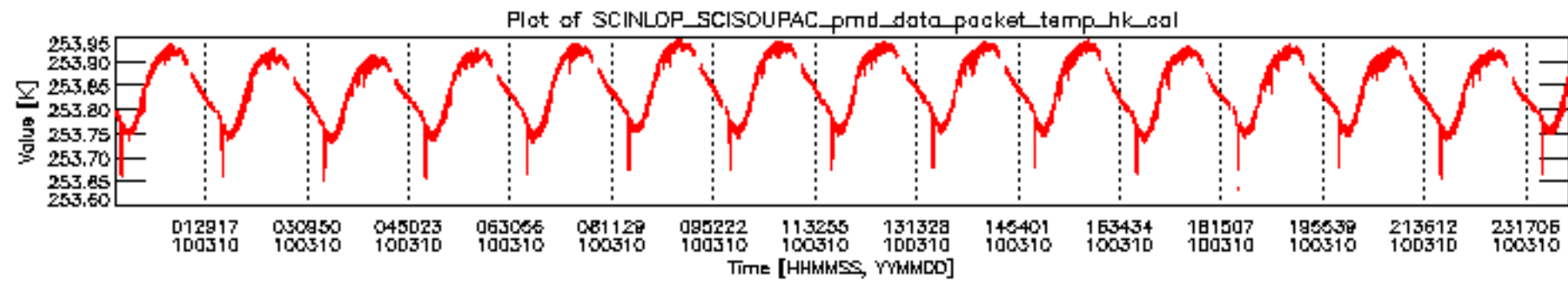
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100310\_8.PNG

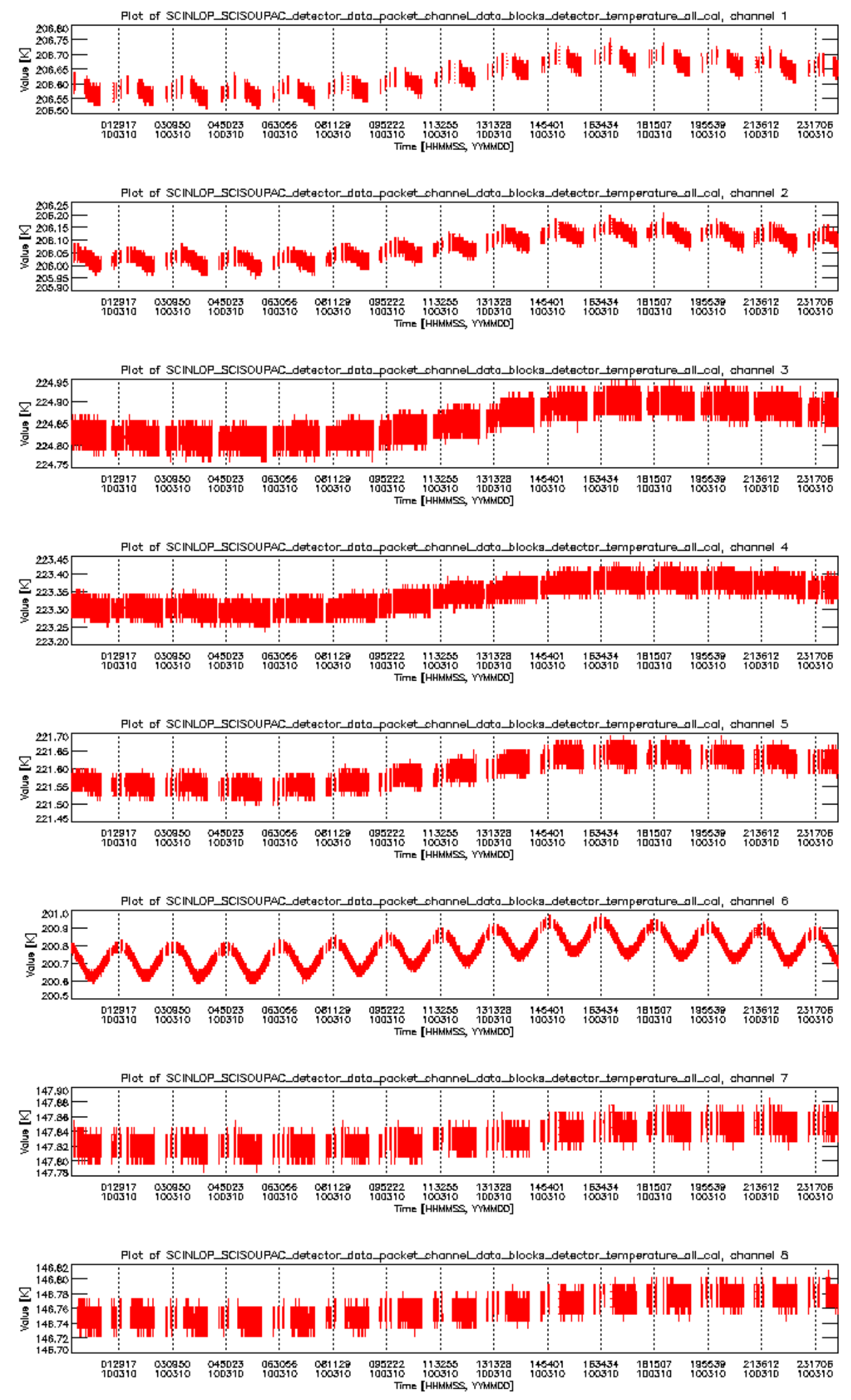




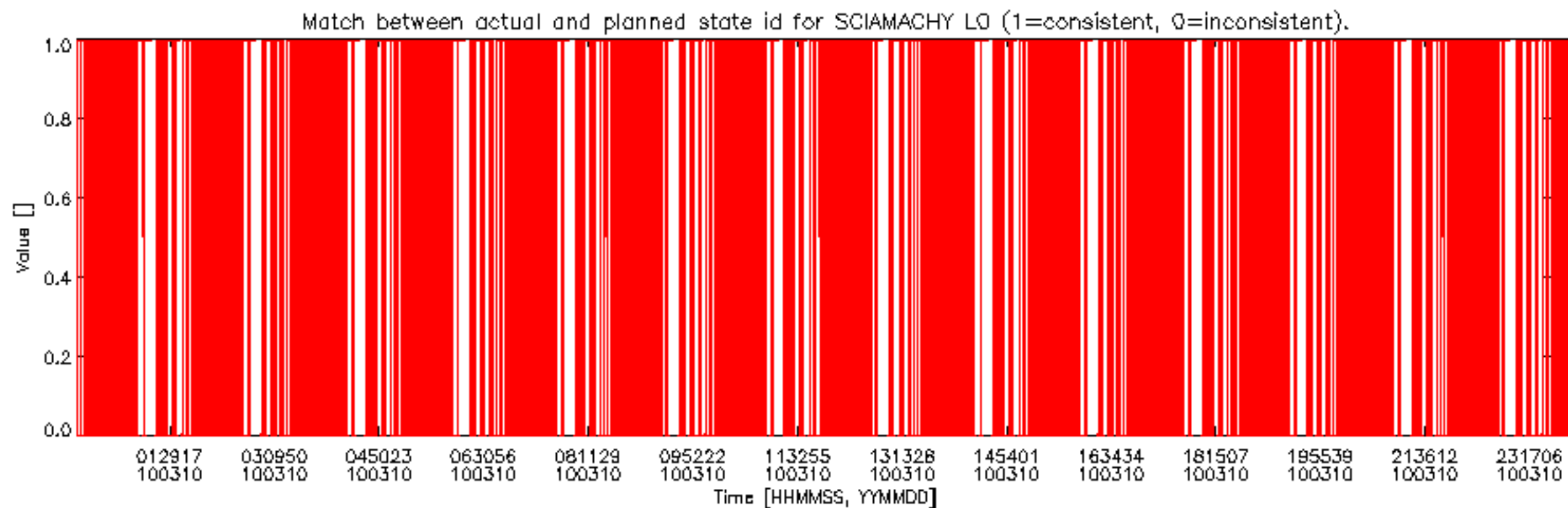
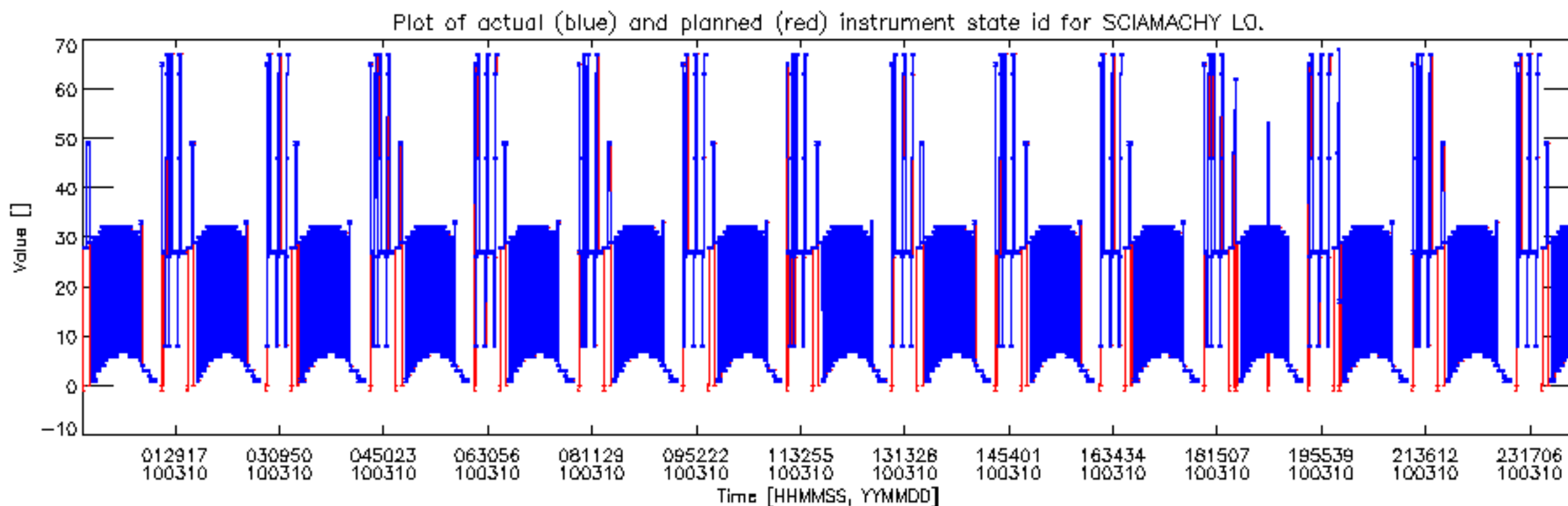




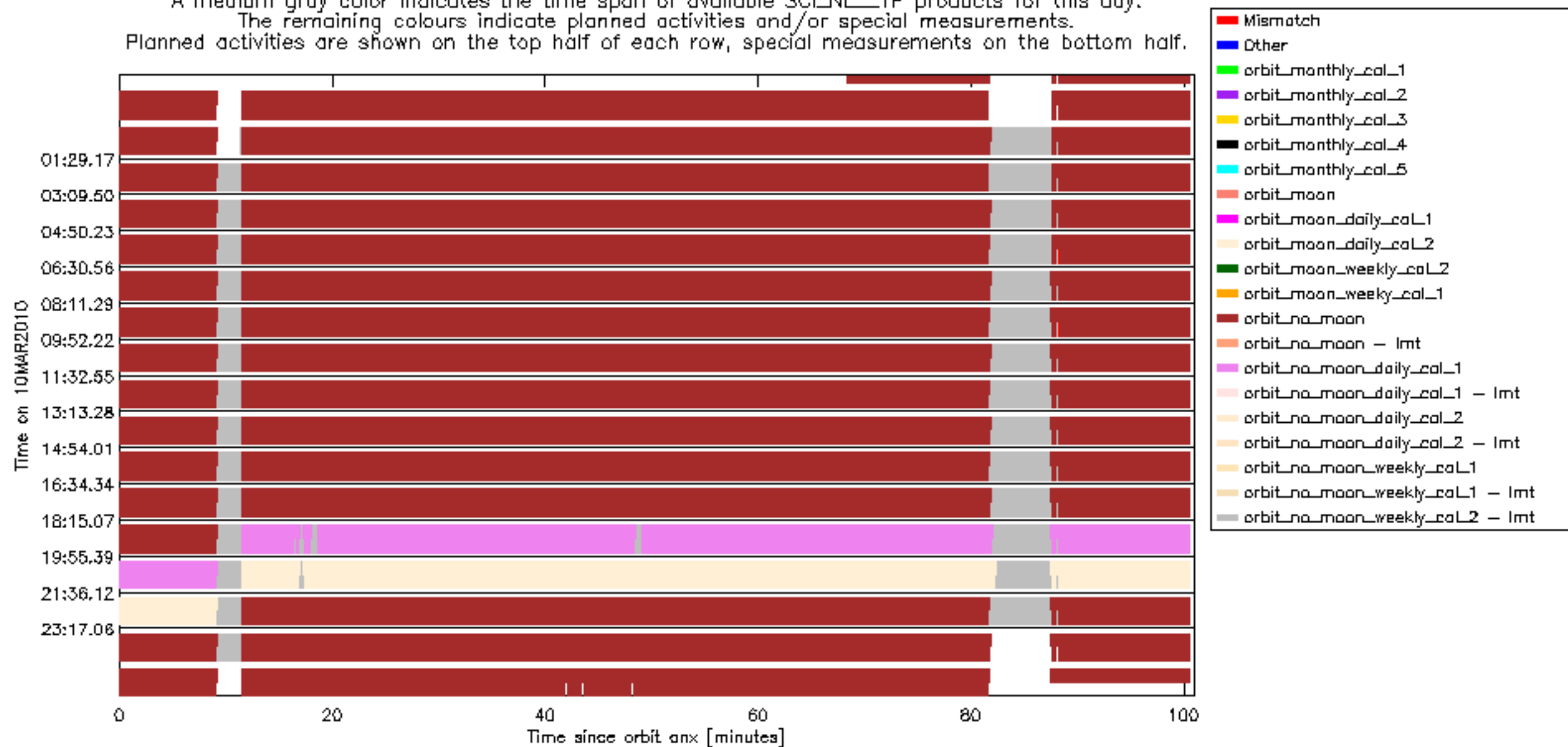


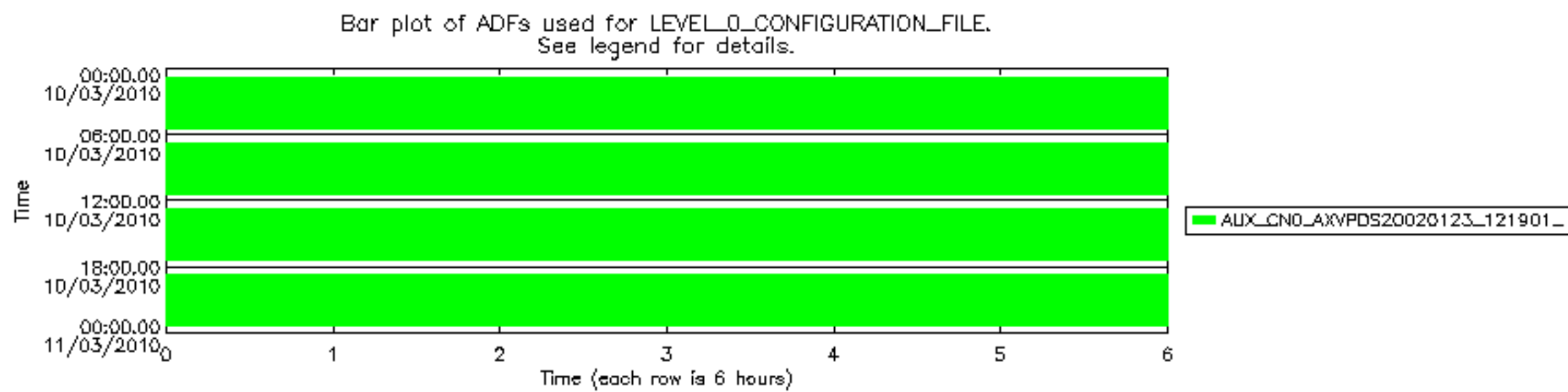






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 10MAR2010.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

