

## 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	v1.4 20100407
Time of report generation	27JAN2011 17:06:05
Data source version	KSPT_L0/4504-N
Processing scope for products	09JAN2011 00:00:00 to 10JAN2011 00:00:00
Start time of first product within scope	09JAN2011 01:28:58
Stop time of last product within scope	10JAN2011 00:53:19
Total number of Level 0 products	15
Number of Level 0 products with errors	0

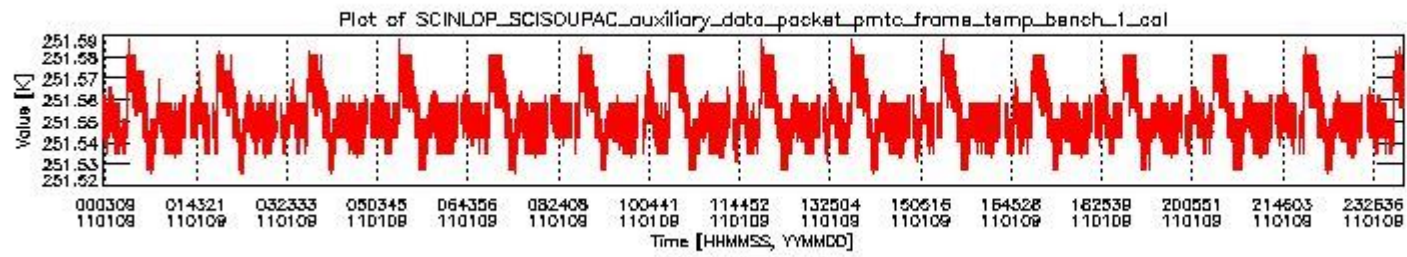
### 0.1.2 Summary per product

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

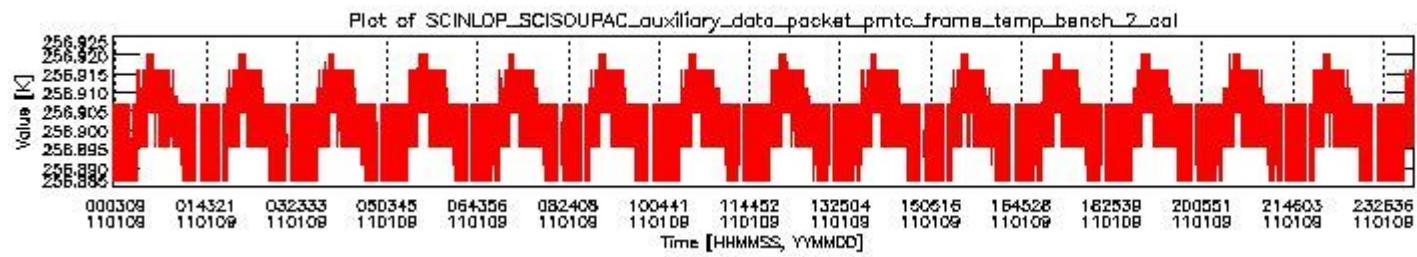
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110109_012858_000044153098_00189_46324_2326.N1	09JAN2011 01:28:58	09JAN2011 02:42:32	0	0	0	0	0
1	SCI_NL__OPNPDE20110109_024232_000061373098_00190_46325_2327.N1	09JAN2011 02:42:32	09JAN2011 04:24:49	0	0	0	0	0
2	SCI_NL__OPNPDE20110109_042449_000060143098_00191_46326_2328.N1	09JAN2011 04:24:49	09JAN2011 06:05:03	0	0	0	0	0
3	SCI_NL__OPNPDK20110109_060408_000040363098_00192_46327_3497.N1	09JAN2011 06:04:08	09JAN2011 07:11:24	0	0	0	0	0
4	SCI_NL__OPNPDK20110109_071030_000061373098_00193_46328_3498.N1	09JAN2011 07:10:30	09JAN2011 08:52:46	0	0	0	0	0
5	SCI_NL__OPNPDK20110109_085044_000060143098_00194_46329_3499.N1	09JAN2011 08:50:44	09JAN2011 10:30:57	0	0	0	0	0
6	SCI_NL__OPNPDK20110109_103003_000060683098_00195_46330_3500.N1	09JAN2011 10:30:03	09JAN2011 12:11:11	0	0	0	0	0
7	SCI_NL__OPNPDK20110109_120923_000060143098_00196_46331_3501.N1	09JAN2011 12:09:23	09JAN2011 13:49:37	0	0	0	0	0
8	SCI_NL__OPNPDK20110109_134842_000060143098_00197_46332_3502.N1	09JAN2011 13:48:42	09JAN2011 15:28:56	0	0	0	0	0
9	SCI_NL__OPNPDK20110109_152638_000059043098_00198_46333_3503.N1	09JAN2011 15:26:38	09JAN2011 17:05:03	0	0	0	0	0
10	SCI_NL__OPNPDK20110109_170408_000060143098_00199_46334_3504.N1	09JAN2011 17:04:08	09JAN2011 18:44:22	0	0	0	0	0
11	SCI_NL__OPNPDK20110109_184328_000058113098_00200_46335_3505.N1	09JAN2011 18:43:28	09JAN2011 20:20:19	0	0	0	0	0
12	SCI_NL__OPNPDE20110109_201851_000043933098_00201_46336_2329.N1	09JAN2011 20:18:51	09JAN2011 21:32:03	0	0	0	0	0
13	SCI_NL__OPNPDE20110109_213055_000061453098_00201_46336_2330.N1	09JAN2011 21:30:55	09JAN2011 23:13:20	0	0	0	0	0
14	SCI_NL__OPNPDE20110109_231922_000056373098_00202_46337_2331.N1	09JAN2011 23:19:22	10JAN2011 00:53:19	0	0	0	0	0

## 0.2 Product Quality Indicators

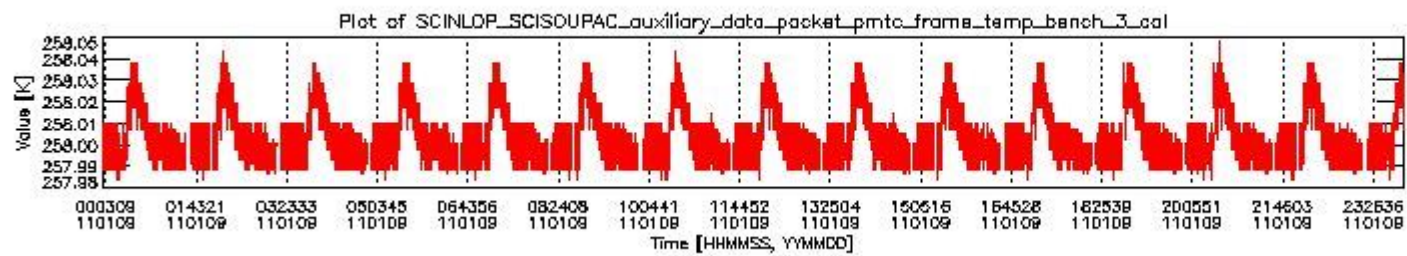
This section shows information about product quality, currently temperatures.



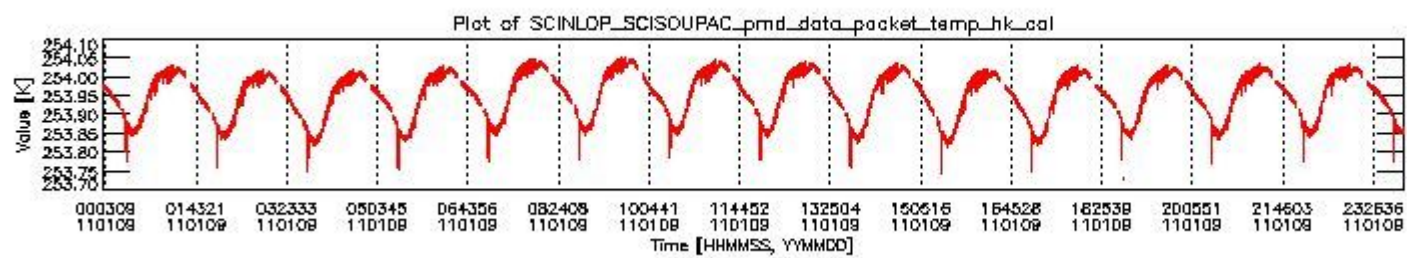
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110109\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110109\_1.PNG

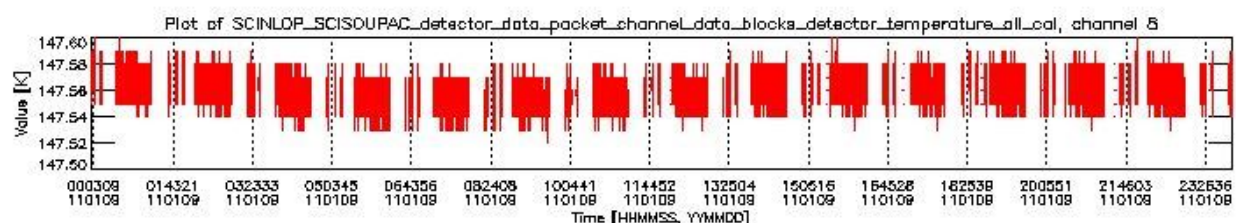
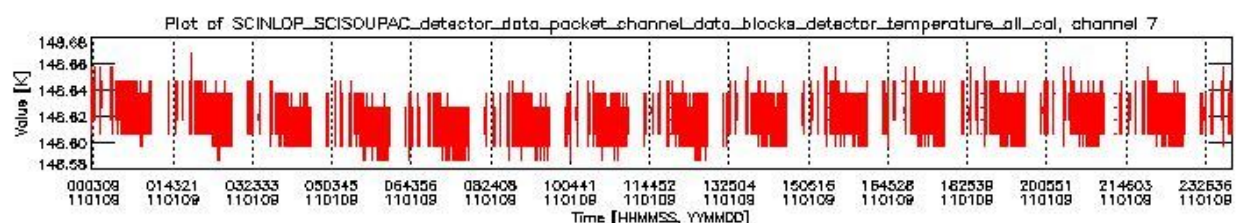
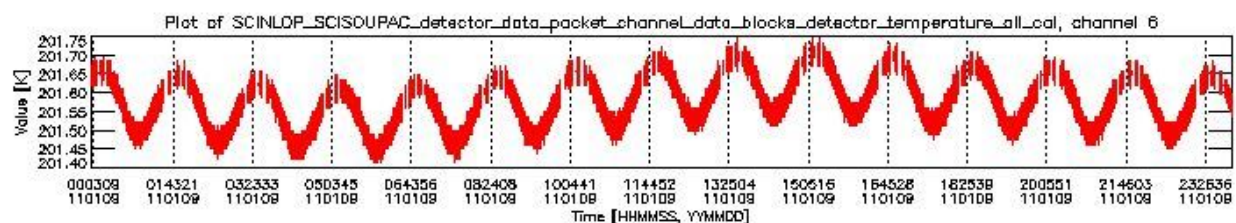
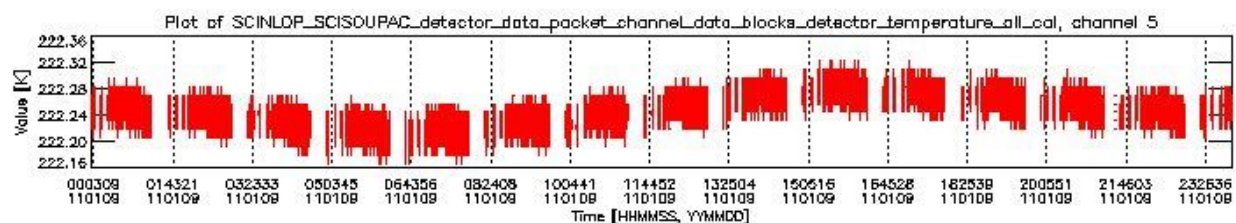
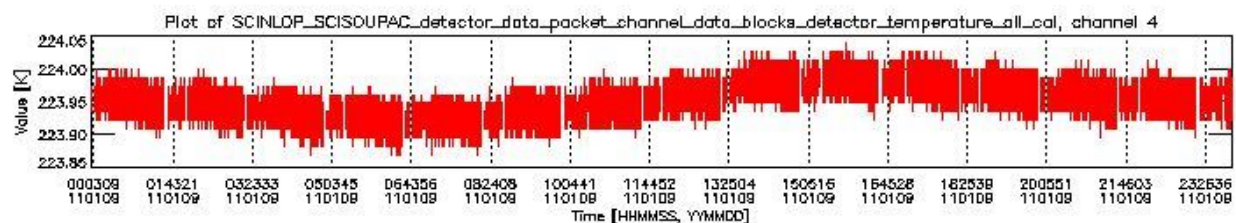
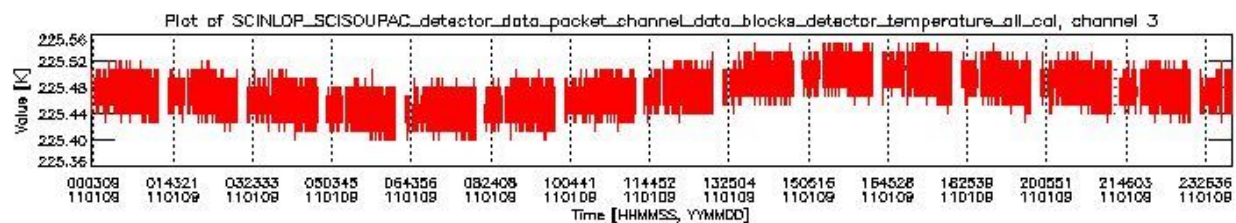
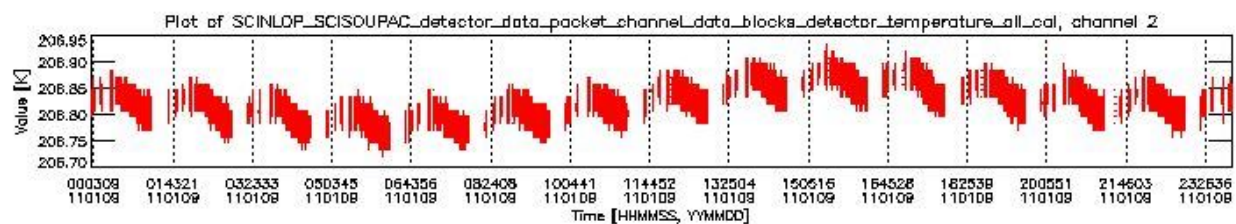
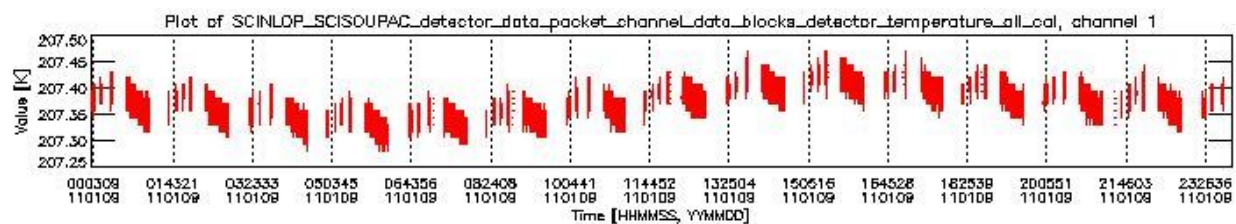


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110109\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110109\_3.PNG



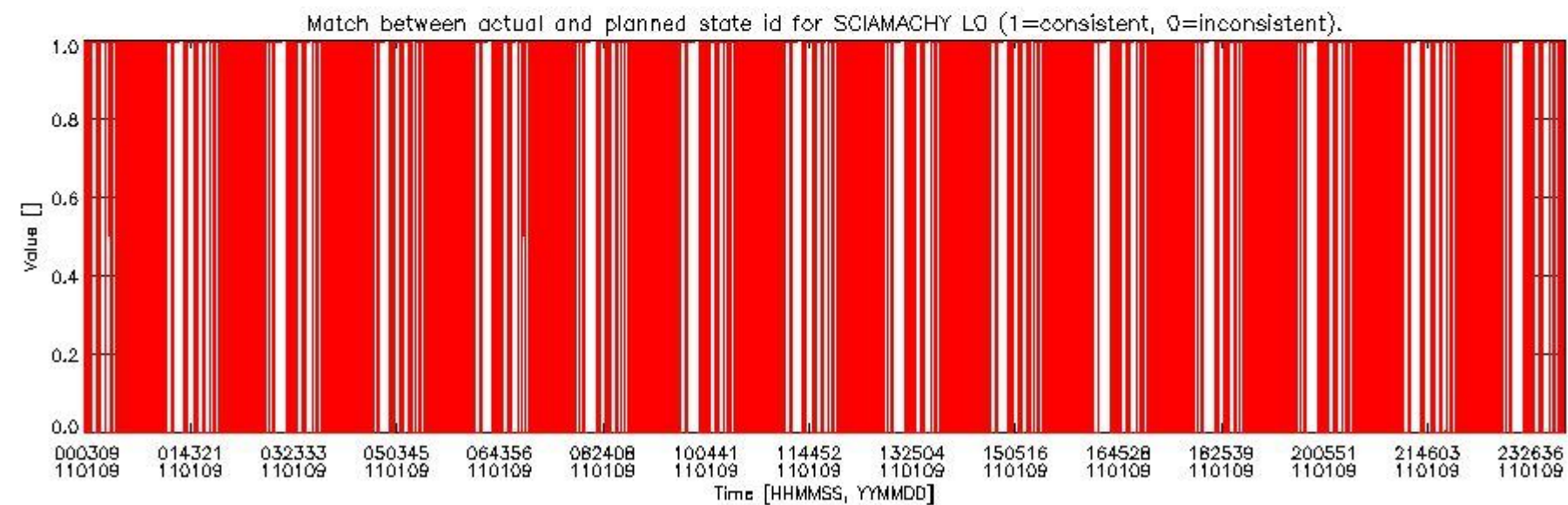
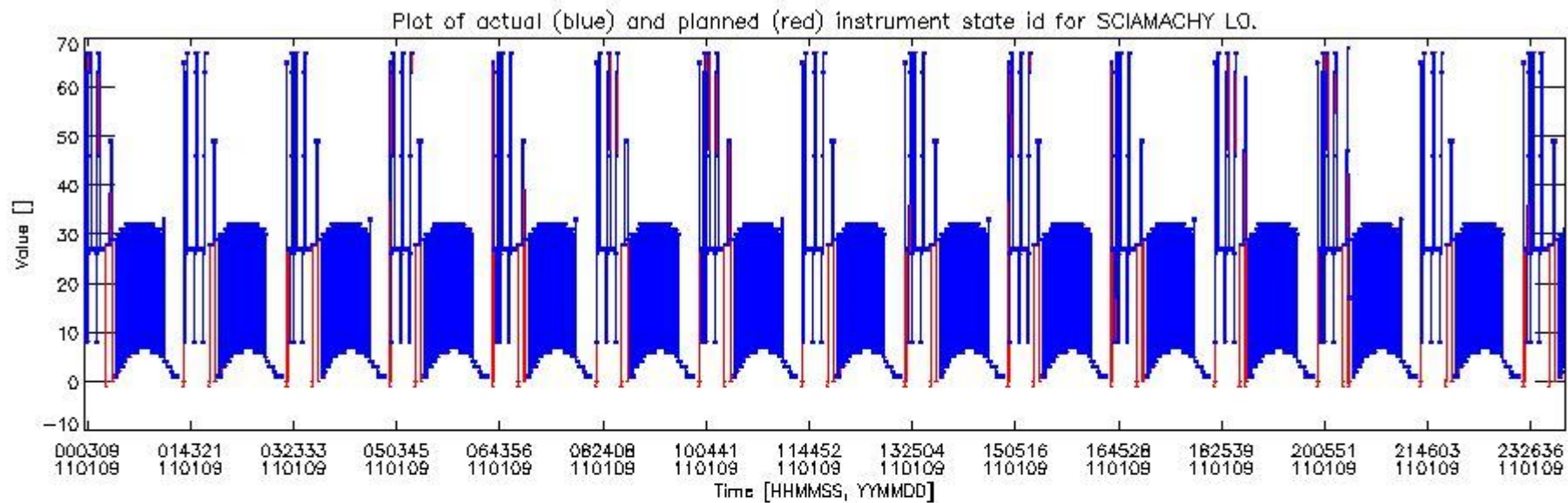


### 0.3 State monitoring

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: **26733**

#	Actual time	Actual value	Planned time	Planned value
0	09JAN2011 00:00:21.599410	46	09JAN2011 00:00:21.599410	26
1	09JAN2011 00:00:22.224410	46	09JAN2011 00:00:22.224410	26
2	09JAN2011 00:00:22.724410	46	09JAN2011 00:00:22.724410	26
3	09JAN2011 00:00:23.224410	46	09JAN2011 00:00:23.224410	26
4	09JAN2011 00:00:23.724410	46	09JAN2011 00:00:23.724410	26
5	09JAN2011 00:00:24.224410	46	09JAN2011 00:00:24.224410	26
6	09JAN2011 00:00:24.724410	46	09JAN2011 00:00:24.724410	26
7	09JAN2011 00:00:25.224410	46	09JAN2011 00:00:25.224410	26
8	09JAN2011 00:00:25.724410	46	09JAN2011 00:00:25.724410	26
9	09JAN2011 00:00:26.224410	46	09JAN2011 00:00:26.224410	26
10	09JAN2011 00:00:26.599410	46	09JAN2011 00:00:26.599410	26
11	09JAN2011 00:00:26.724410	46	09JAN2011 00:00:26.724410	26
12	09JAN2011 00:00:27.224410	46	09JAN2011 00:00:27.224410	26
13	09JAN2011 00:00:35.161912	63	09JAN2011 00:00:35.161912	46
14	09JAN2011 00:00:35.661912	63	09JAN2011 00:00:35.661912	46
15	09JAN2011 00:00:36.036912	63	09JAN2011 00:00:36.036912	46
16	09JAN2011 00:00:36.411912	63	09JAN2011 00:00:36.411912	46
17	09JAN2011 00:00:36.786912	63	09JAN2011 00:00:36.786912	46
18	09JAN2011 00:00:37.161912	63	09JAN2011 00:00:37.161912	46
19	09JAN2011 00:00:37.536912	63	09JAN2011 00:00:37.536912	46
	...	...	...	...



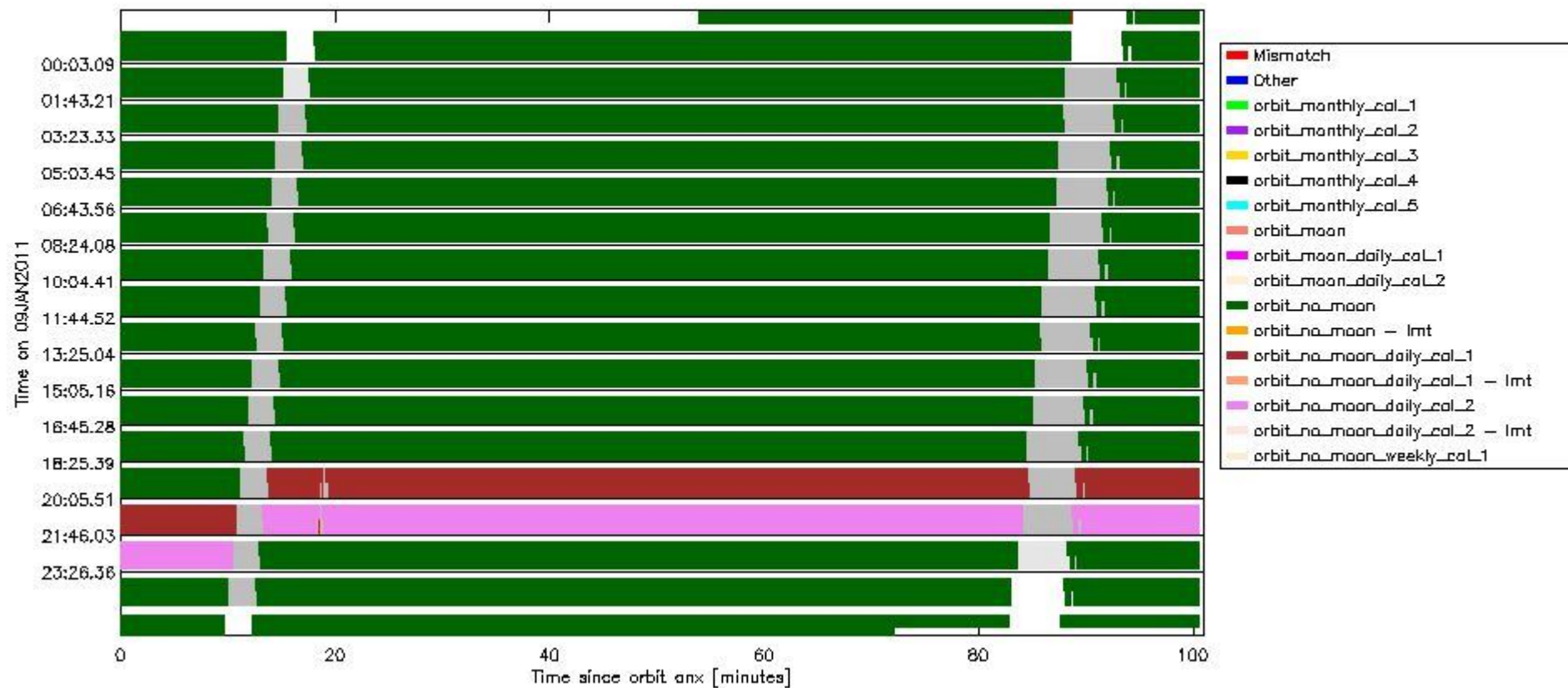
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110109\_5.PNG

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 09JAN2011.  
 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\_20110109\_6.PNG

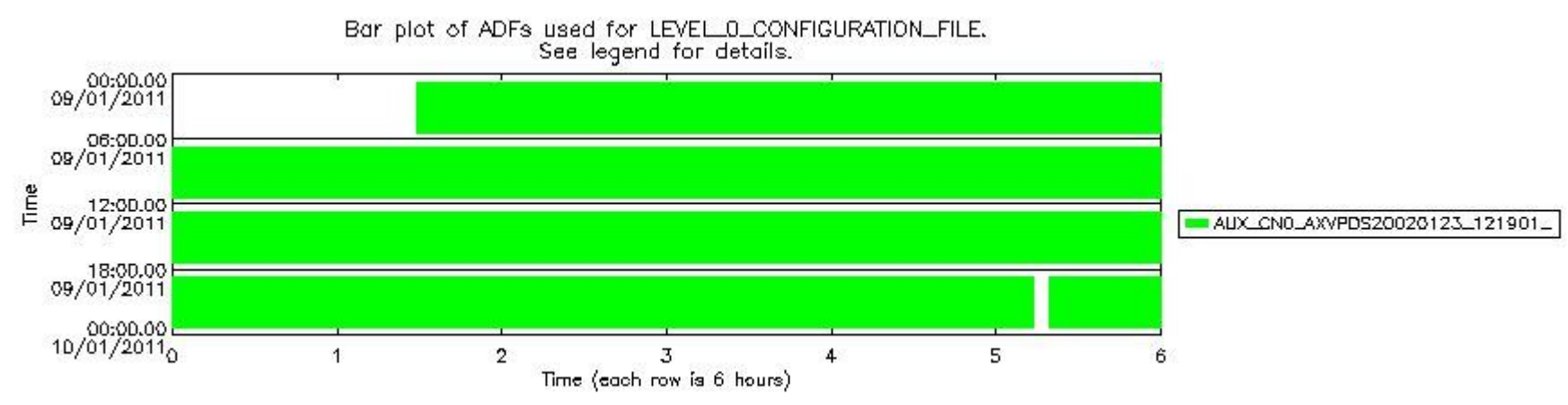
## 0.4 ADF monitoring

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

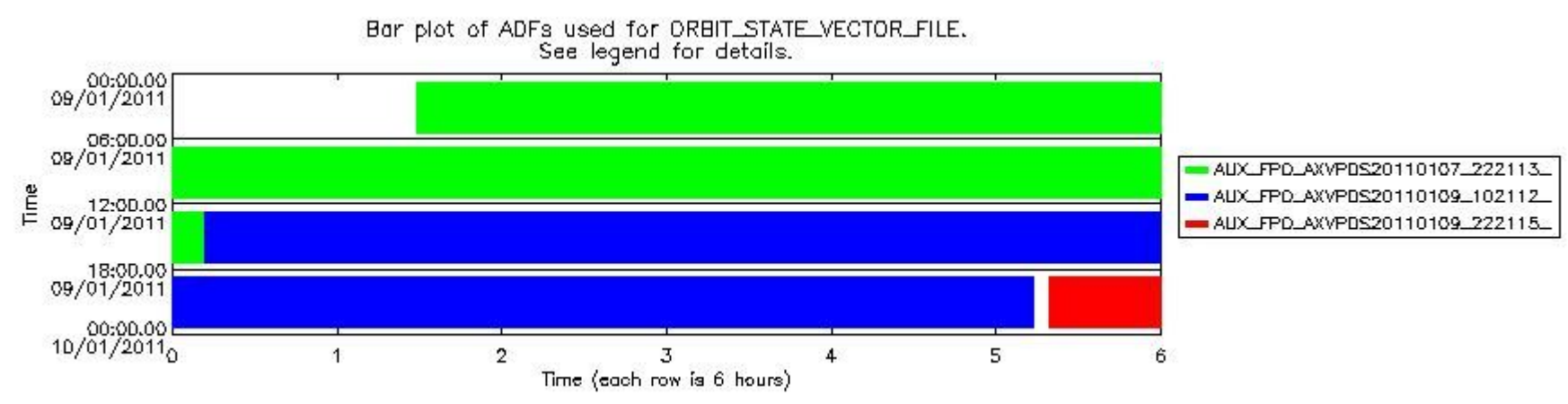
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

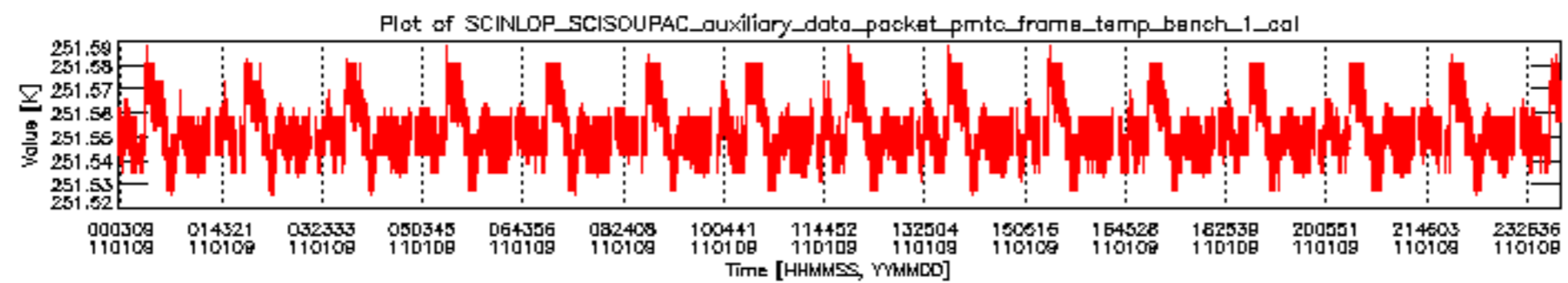
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110107_222113_20110107_193912_20110117_201250
2	AUX_FPO_AXVPDS20110109_102112_20110108_190229_20110118_211620
3	AUX_FPO_AXVPDS20110109_222115_20110109_182545_20110119_203937



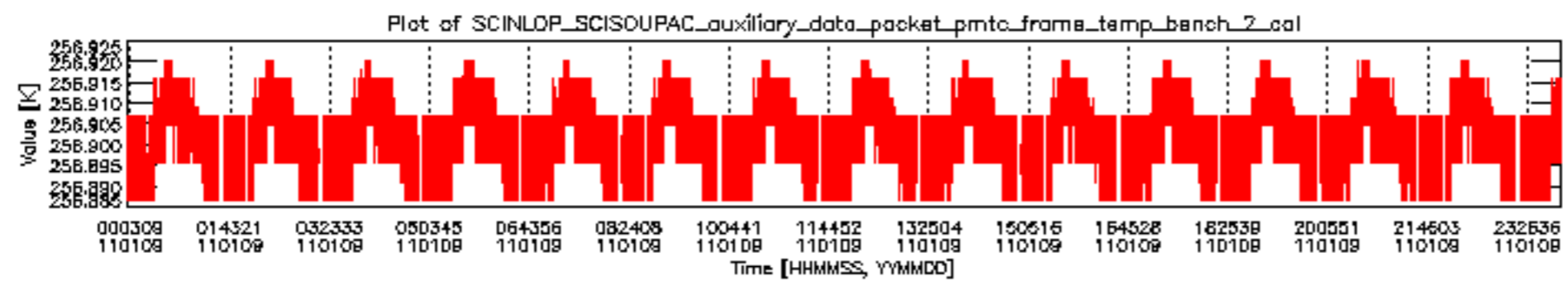
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110109\_7.PNG

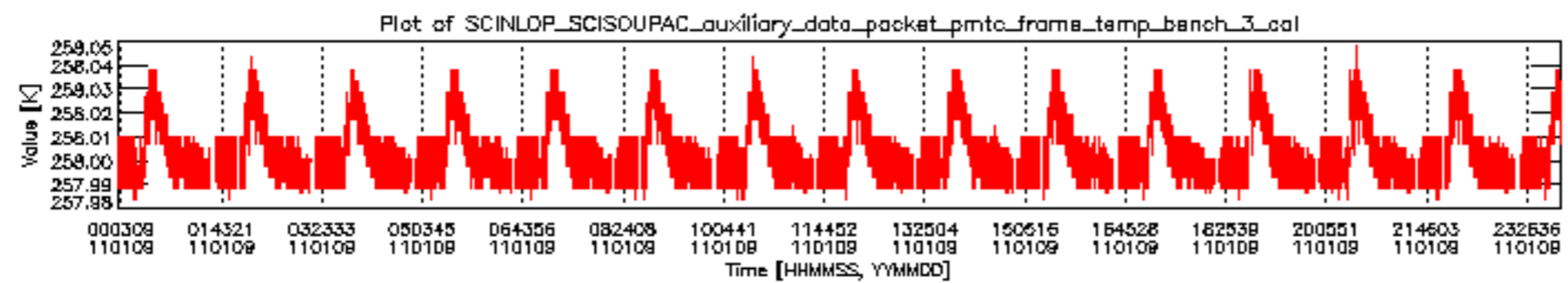


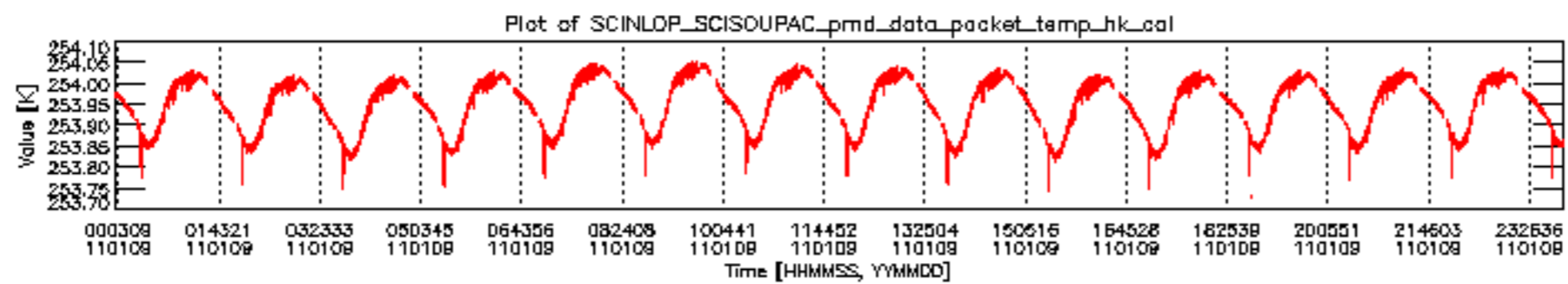
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110109\_8.PNG

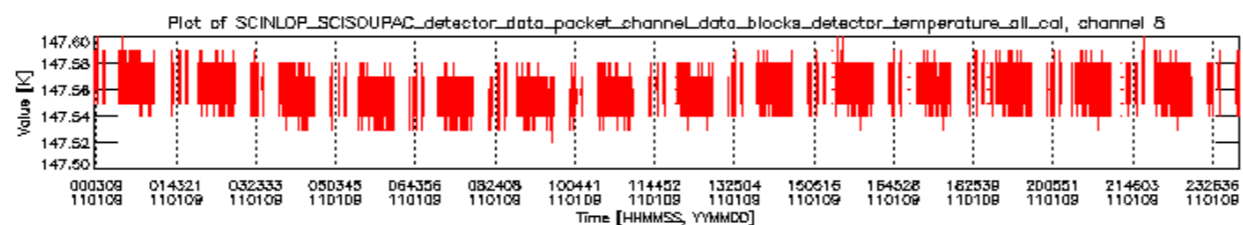
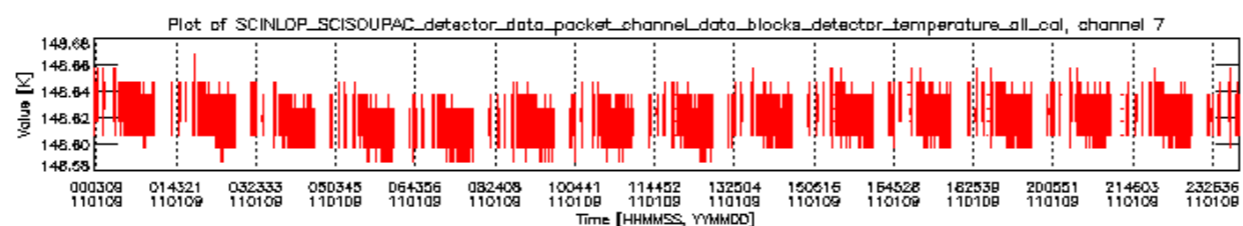
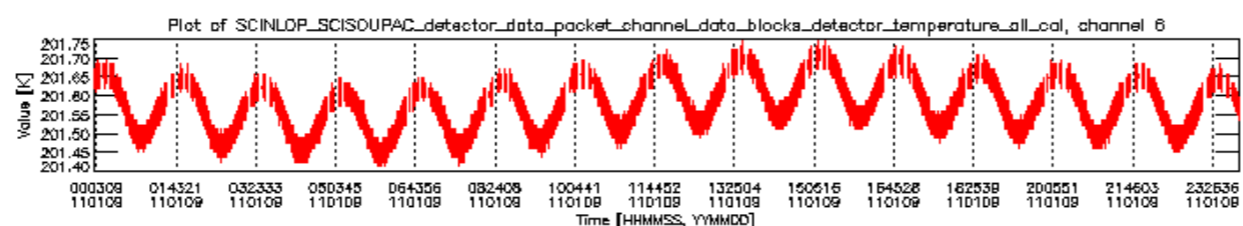
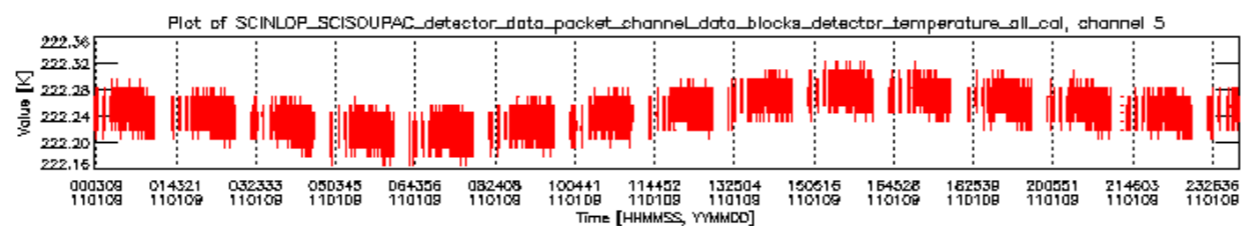
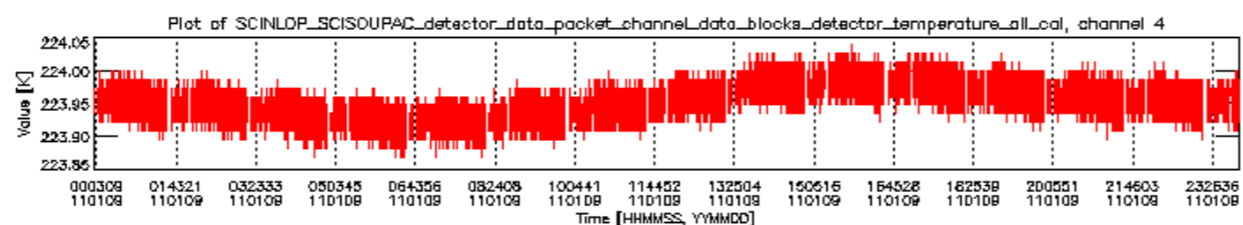
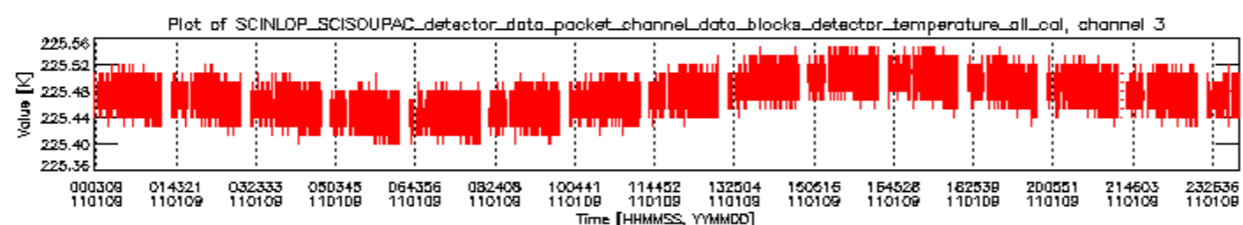
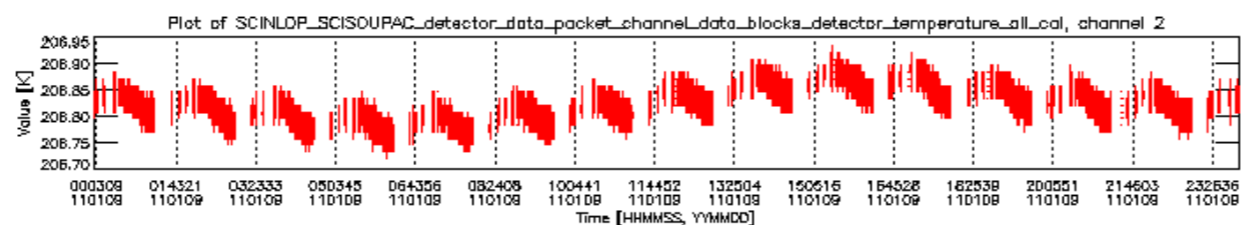
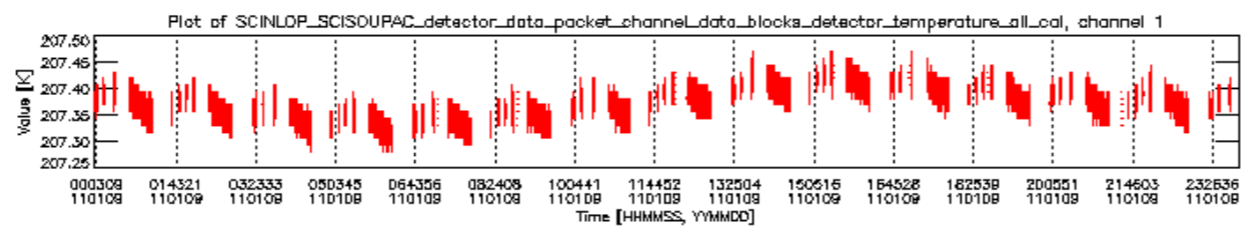




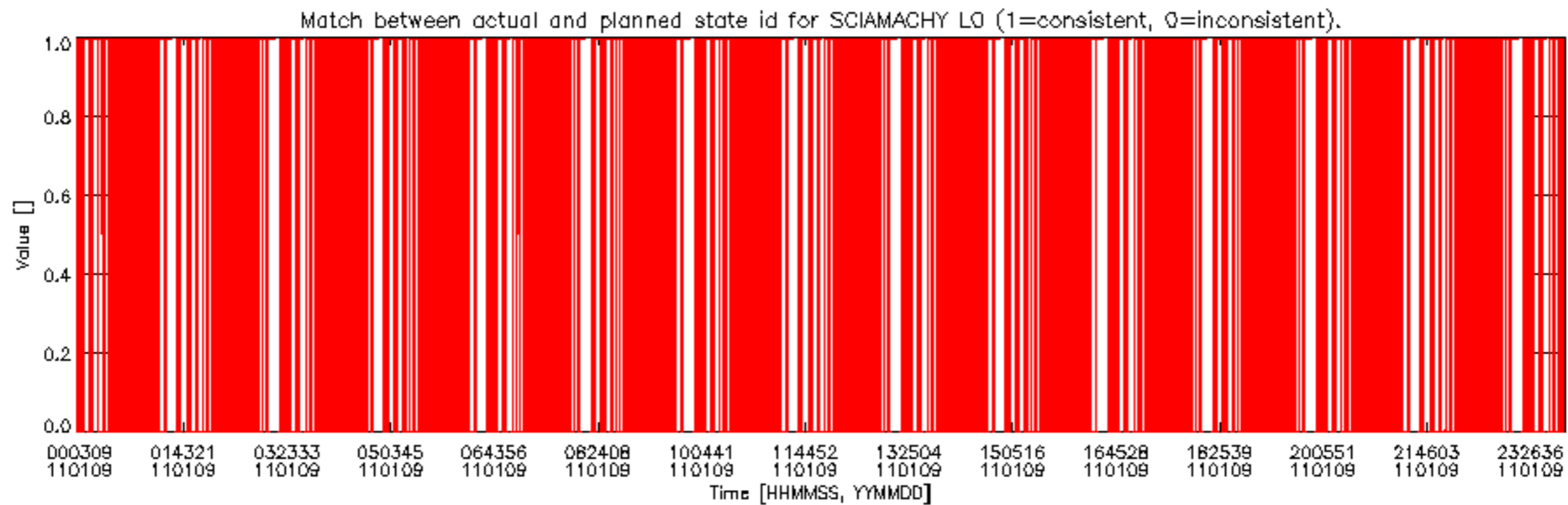
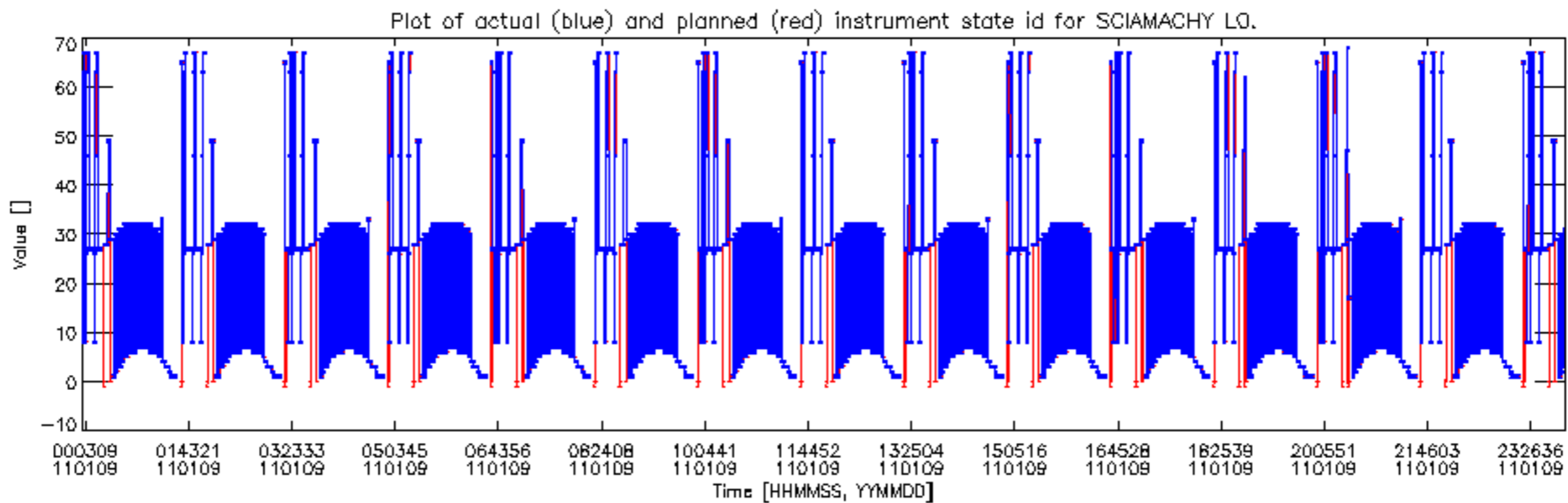












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 09JAN2011.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

