

## 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 17:13:14
Data source version	KSPT_L0/4504-N
Processing scope for products	18JAN2011 00:00:00 to 19JAN2011 00:00:00
Start time of first product within scope	18JAN2011 01:01:05
Stop time of last product within scope	19JAN2011 00:21:53
Total number of Level 0 products	15
Number of Level 0 products with errors	0

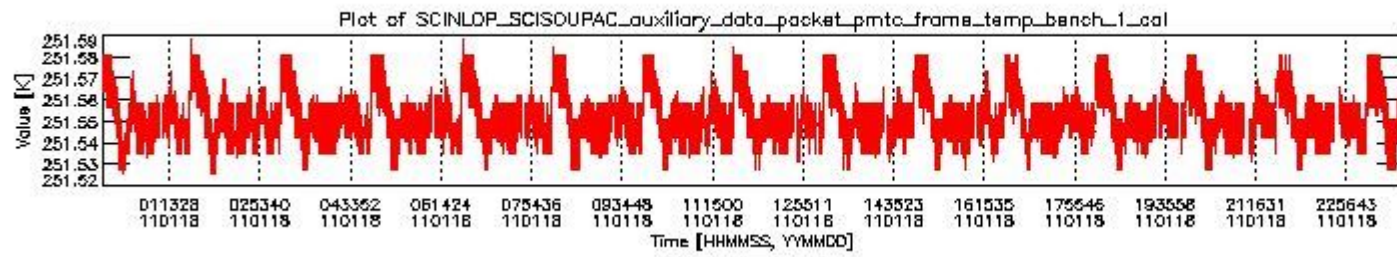
### 0.1.2 Summary per product

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

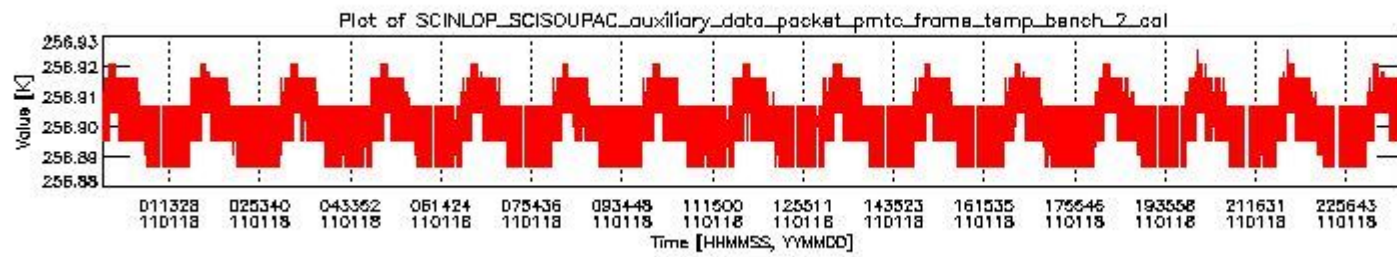
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110118_010105_000102753098_00318_46453_2380.N1	18JAN2011 01:01:05	18JAN2011 03:52:19	0	0	0	0	0
1	SCI_NL__OPNPDE20110118_022733_000050863098_00319_46454_2381.N1	18JAN2011 02:27:33	18JAN2011 03:52:19	0	0	0	0	0
2	SCI_NL__OPNPDE20110118_035111_000062593098_00320_46455_2383.N1	18JAN2011 03:51:11	18JAN2011 05:35:30	0	0	0	0	0
3	SCI_NL__OPNPDE20110118_053530_000060143098_00321_46456_2384.N1	18JAN2011 05:35:30	18JAN2011 07:15:44	0	0	0	0	0
4	SCI_NL__OPNPDK20110118_071450_000039813098_00322_46457_3590.N1	18JAN2011 07:14:50	18JAN2011 08:21:11	0	0	0	0	0
5	SCI_NL__OPNPDK20110118_082111_000060823098_00323_46458_3591.N1	18JAN2011 08:21:11	18JAN2011 10:02:33	0	0	0	0	0
6	SCI_NL__OPNPDK20110118_100030_000061363098_00324_46459_3592.N1	18JAN2011 10:00:30	18JAN2011 11:42:47	0	0	0	0	0
7	SCI_NL__OPNPDK20110118_114138_000060143098_00325_46460_3593.N1	18JAN2011 11:41:38	18JAN2011 13:21:52	0	0	0	0	0
8	SCI_NL__OPNPDK20110118_132004_000057673098_00326_46461_3596.N1	18JAN2011 13:20:04	18JAN2011 14:56:11	0	0	0	0	0
9	SCI_NL__OPNPDK20110118_145611_000059593098_00327_46462_3597.N1	18JAN2011 14:56:11	18JAN2011 16:35:30	0	0	0	0	0
10	SCI_NL__OPNPDK20110118_163435_000059053098_00328_46463_3598.N1	18JAN2011 16:34:35	18JAN2011 18:13:01	0	0	0	0	0
11	SCI_NL__OPNPDK20110118_181301_000057783098_00329_46464_3599.N1	18JAN2011 18:13:01	18JAN2011 19:49:18	0	0	0	0	0
12	SCI_NL__OPNPDE20110118_195315_000039243098_00330_46465_2385.N1	18JAN2011 19:53:15	18JAN2011 20:58:39	0	0	0	0	0
13	SCI_NL__OPNPDE20110118_205715_000062213098_00330_46465_2386.N1	18JAN2011 20:57:15	18JAN2011 22:40:56	0	0	0	0	0
14	SCI_NL__OPNPDE20110118_224906_000055673098_00331_46466_2387.N1	18JAN2011 22:49:06	19JAN2011 00:21:53	0	0	0	0	0

## 0.2 Product Quality Indicators

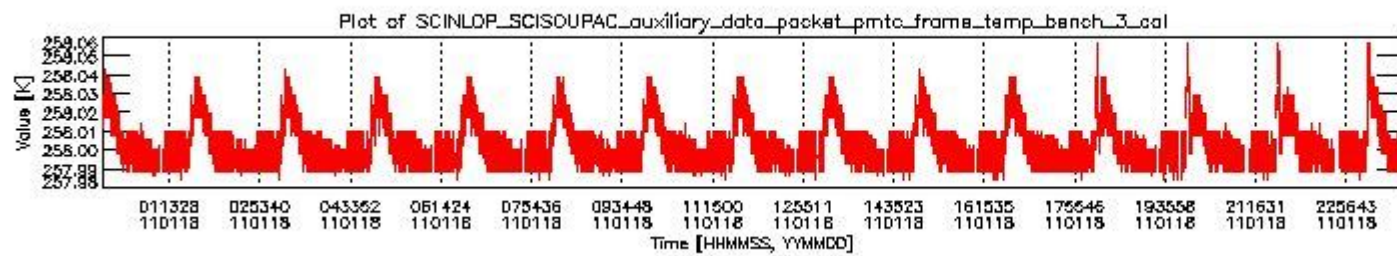
This section shows information about product quality, currently temperatures.



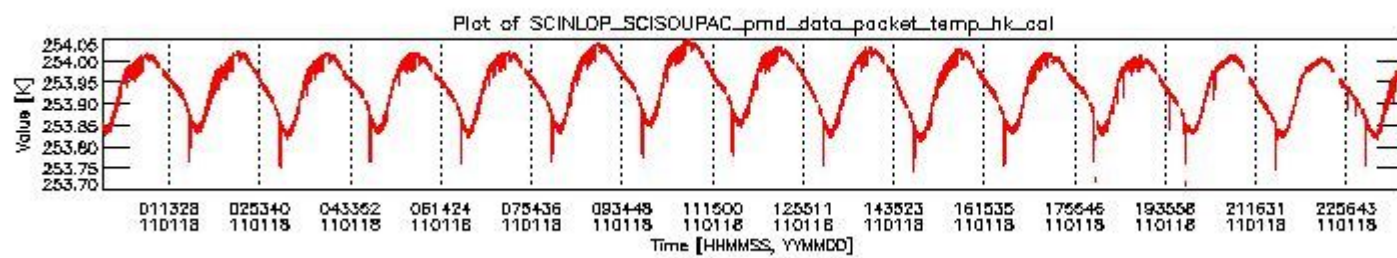
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110118\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110118\_1.PNG

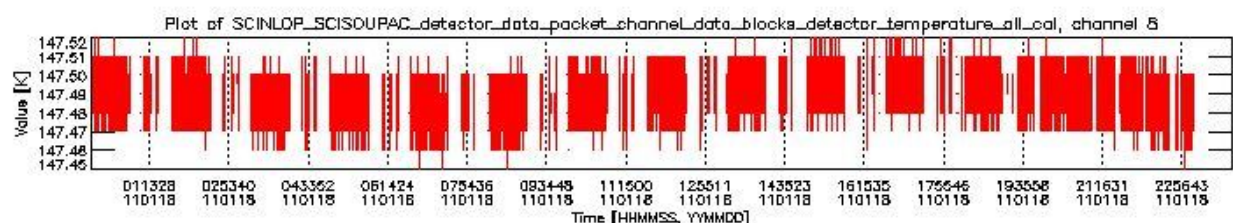
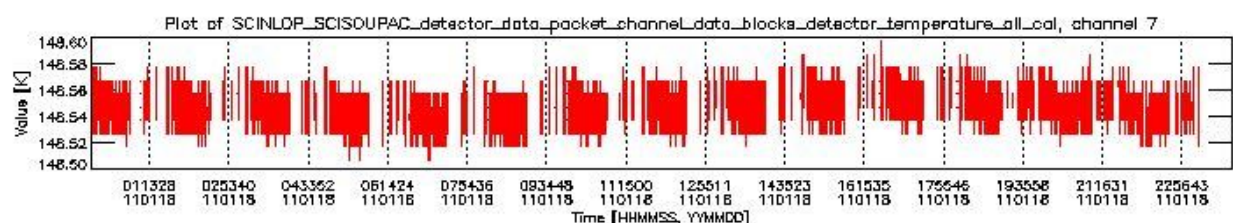
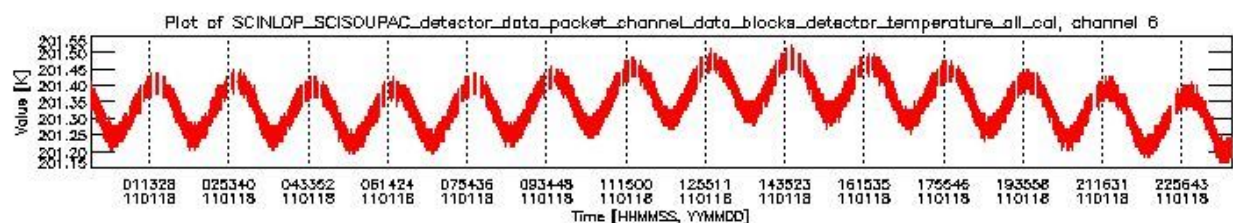
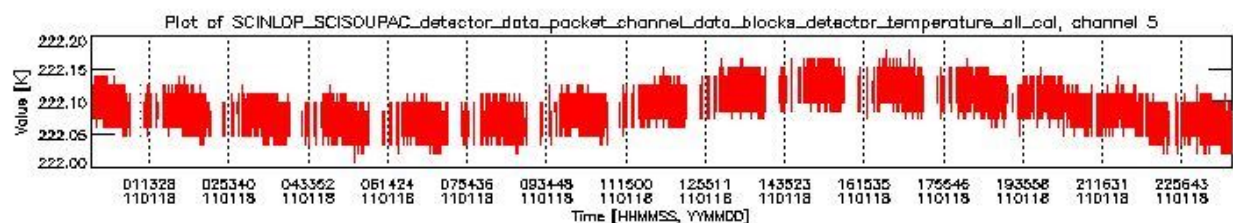
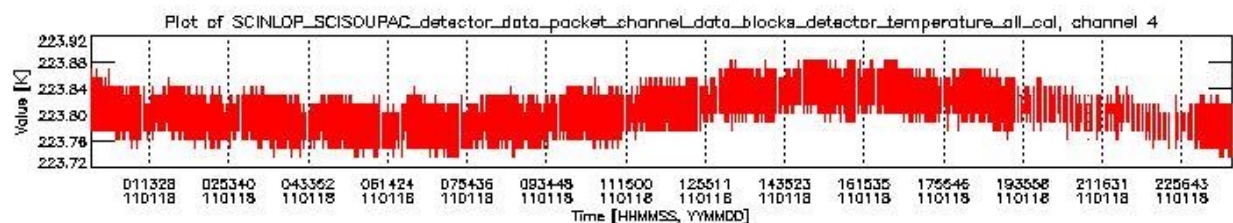
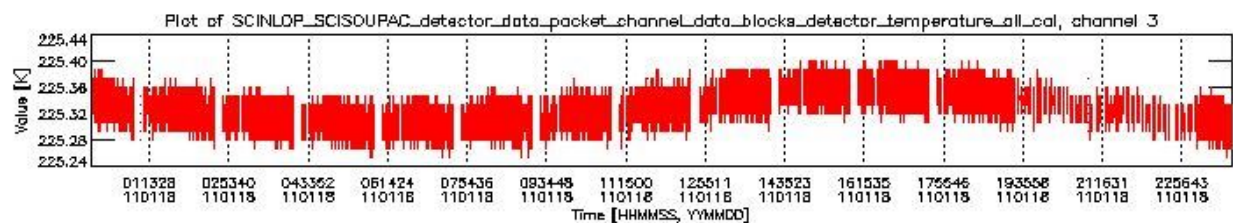
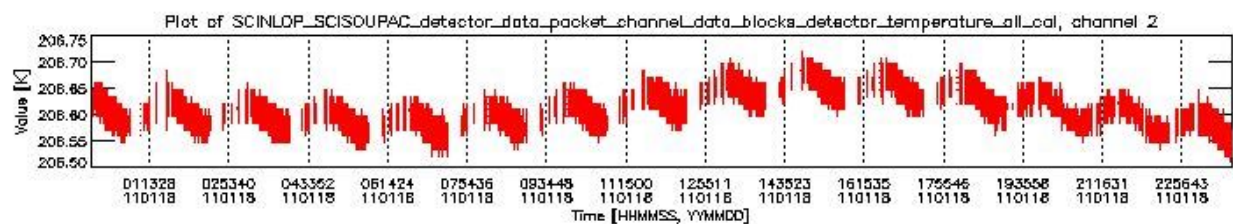
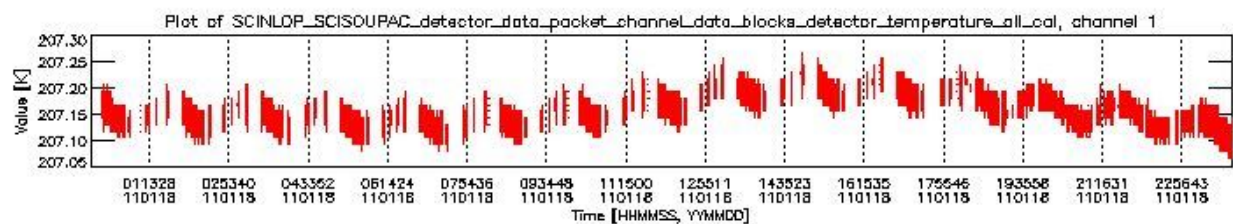


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110118\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110118\_3.PNG



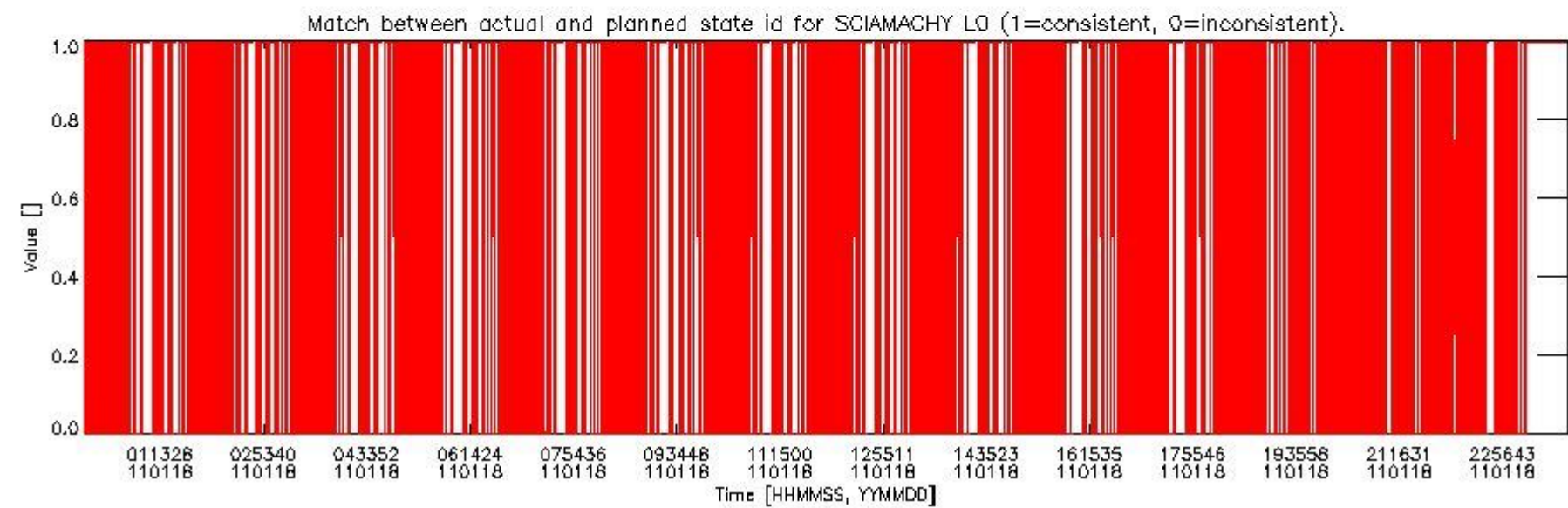
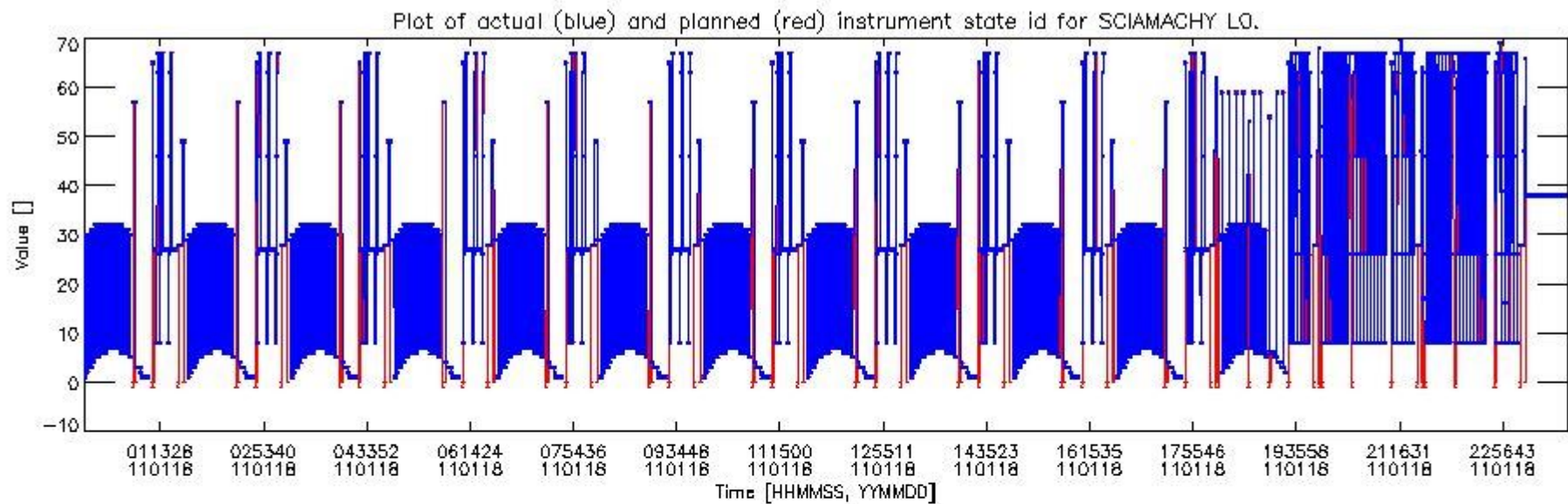


### 0.3 State monitoring

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: **25823**

#	Actual time	Actual value	Planned time	Planned value
0	18JAN2011 00:00:02.889884	1	18JAN2011 00:00:02.889884	29
1	18JAN2011 00:00:03.139884	1	18JAN2011 00:00:03.139884	29
2	18JAN2011 00:00:03.264884	1	18JAN2011 00:00:03.264884	29
3	18JAN2011 00:00:03.389884	1	18JAN2011 00:00:03.389884	29
4	18JAN2011 00:00:03.514884	1	18JAN2011 00:00:03.514884	29
5	18JAN2011 00:00:03.639884	1	18JAN2011 00:00:03.639884	29
6	18JAN2011 00:00:03.764884	1	18JAN2011 00:00:03.764884	29
7	18JAN2011 00:00:03.889884	1	18JAN2011 00:00:03.889884	29
8	18JAN2011 00:00:04.014884	1	18JAN2011 00:00:04.014884	29
9	18JAN2011 00:00:04.139884	1	18JAN2011 00:00:04.139884	29
10	18JAN2011 00:00:04.264884	1	18JAN2011 00:00:04.264884	29
11	18JAN2011 00:00:04.389884	1	18JAN2011 00:00:04.389884	29
12	18JAN2011 00:00:04.514884	1	18JAN2011 00:00:04.514884	29
13	18JAN2011 00:00:04.639884	1	18JAN2011 00:00:04.639884	29
14	18JAN2011 00:00:04.764884	1	18JAN2011 00:00:04.764884	29
15	18JAN2011 00:00:04.889884	1	18JAN2011 00:00:04.889884	29
16	18JAN2011 00:00:05.014884	1	18JAN2011 00:00:05.014884	29
17	18JAN2011 00:00:05.139884	1	18JAN2011 00:00:05.139884	29
18	18JAN2011 00:00:05.264884	1	18JAN2011 00:00:05.264884	29
19	18JAN2011 00:00:05.389884	1	18JAN2011 00:00:05.389884	29
...	...	...	...	...



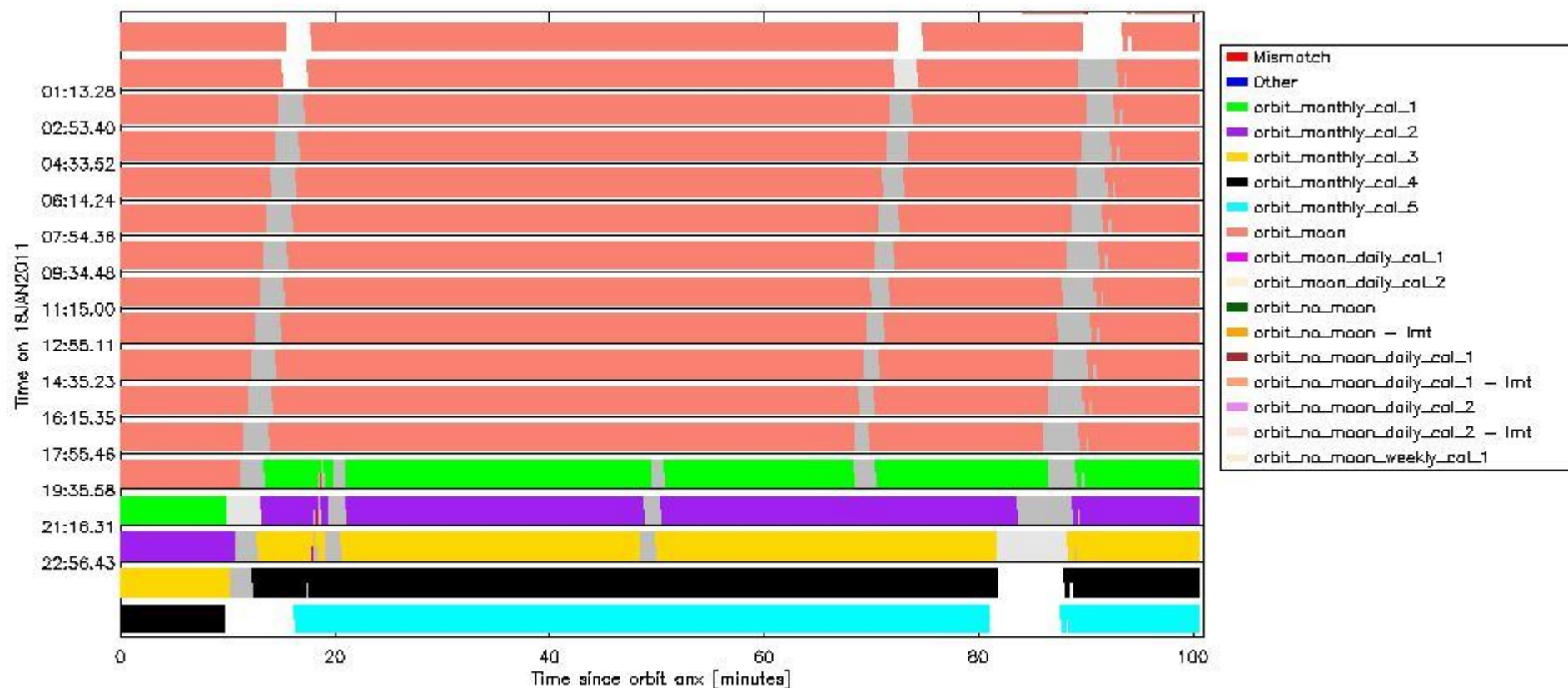
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110118\_5.PNG

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 18JAN2011.  
 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\_20110118\_6.PNG

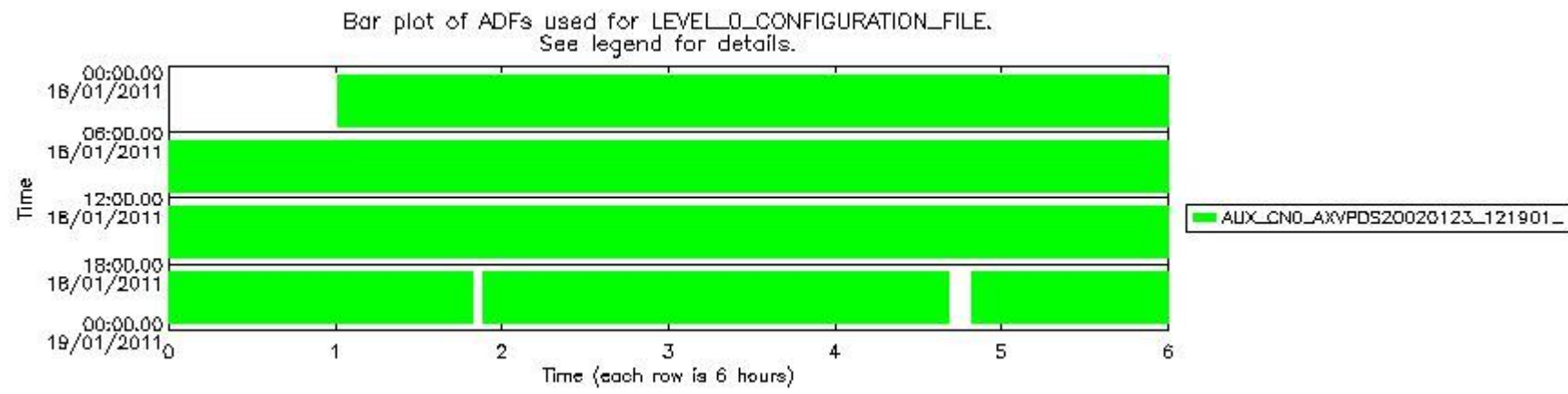
## 0.4 ADF monitoring

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

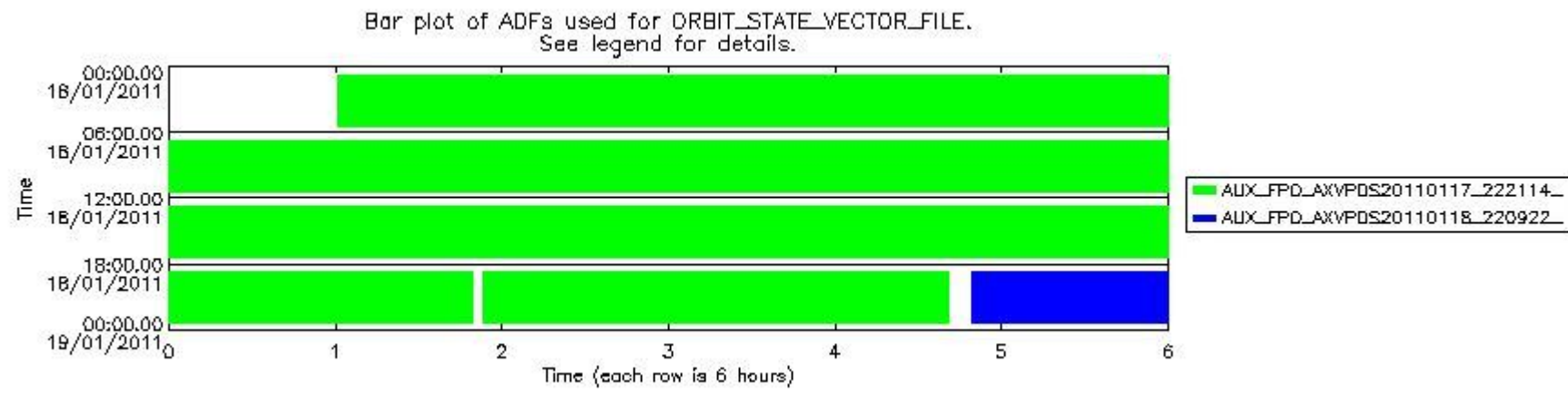
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

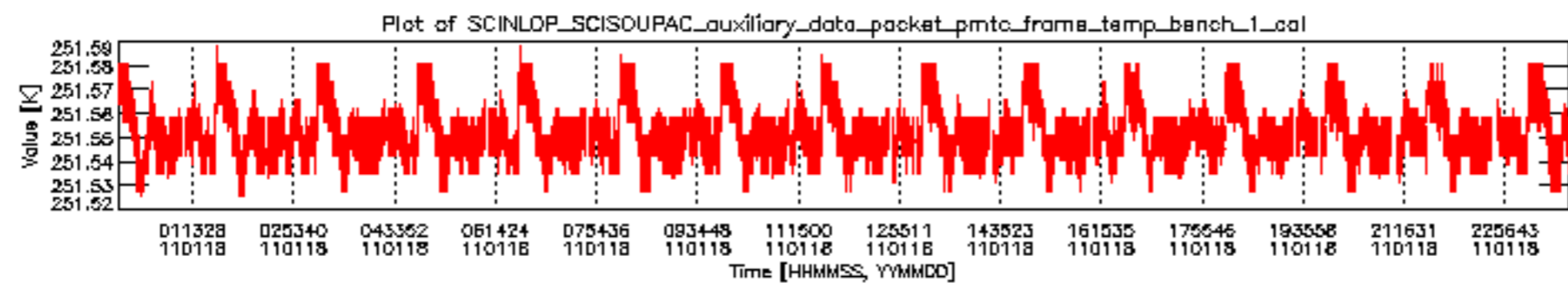
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110117_222114_20110117_183237_20110127_204629
2	AUX_FPO_AXVPDS20110118_220922_20110118_193607_20110128_200945



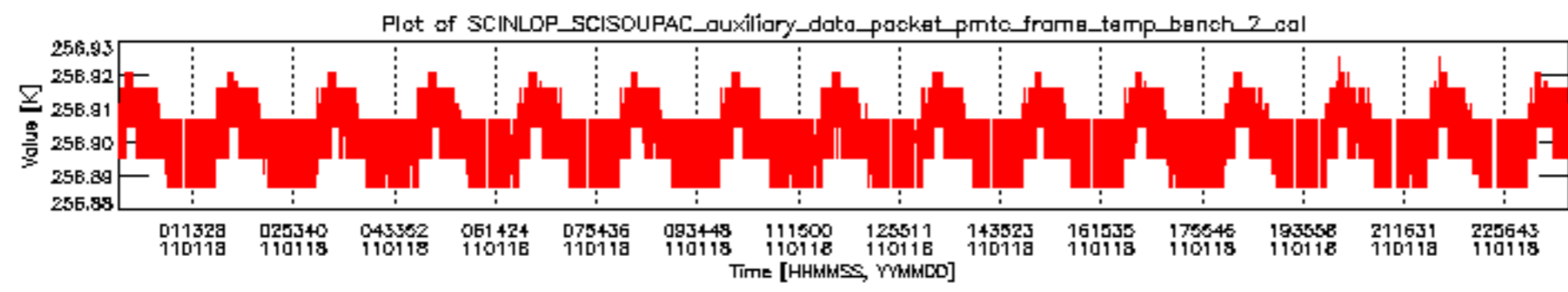
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110118\_7.PNG

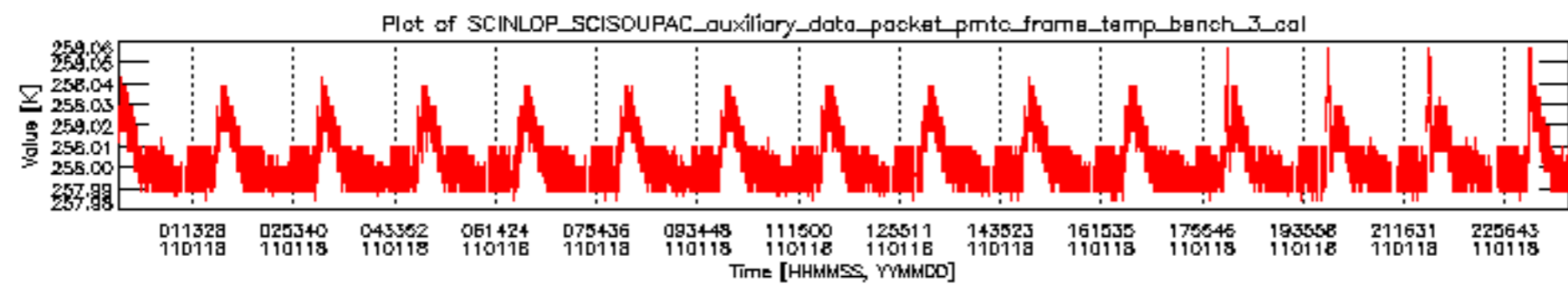


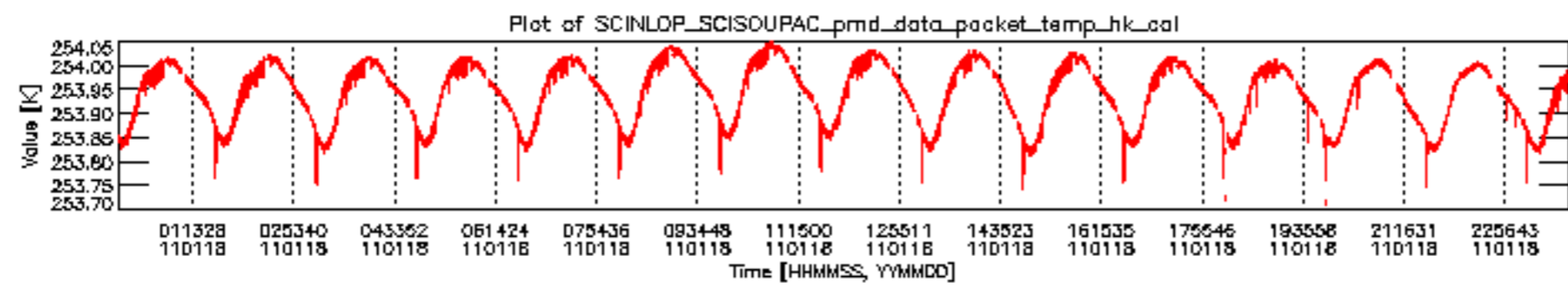
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110118\_8.PNG

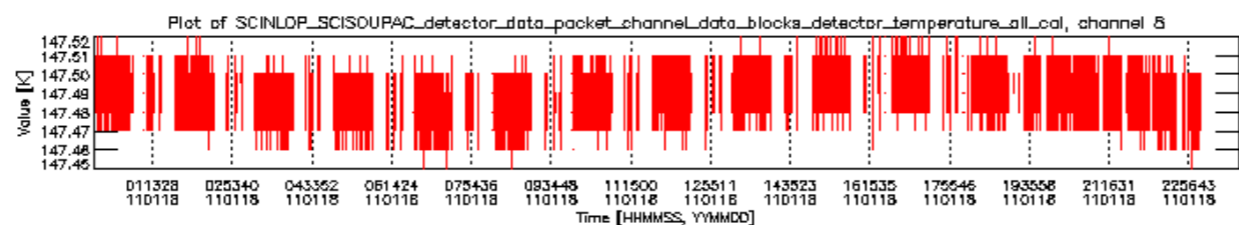
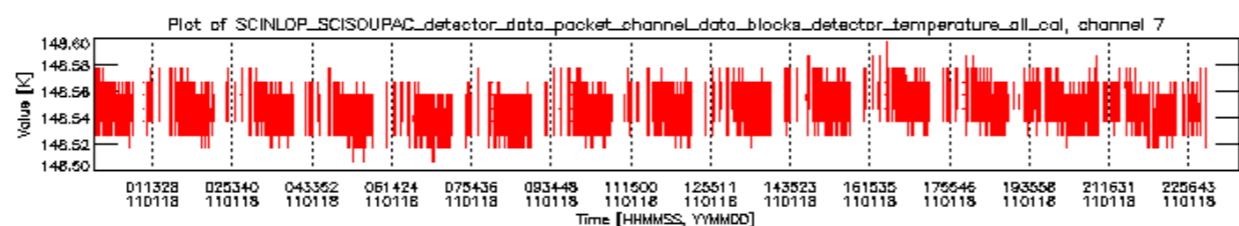
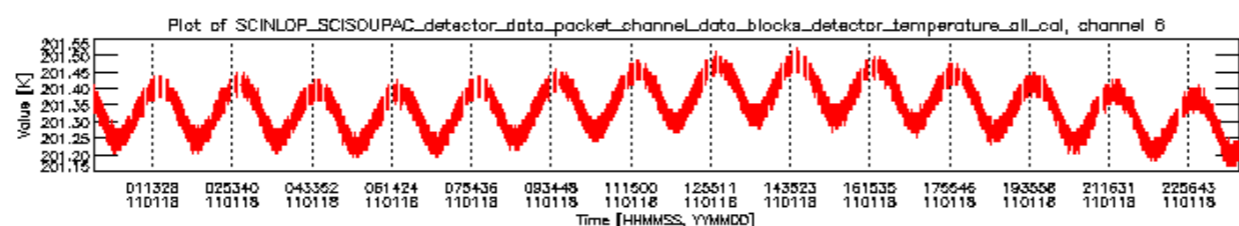
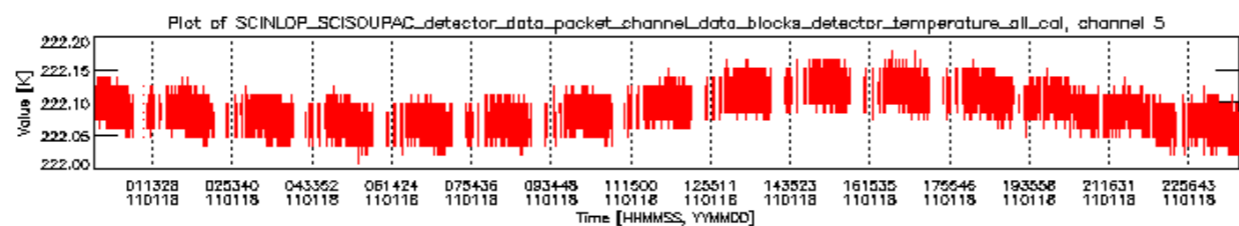
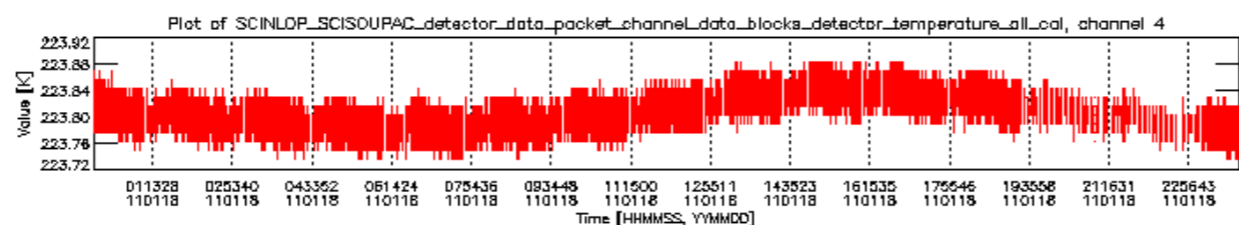
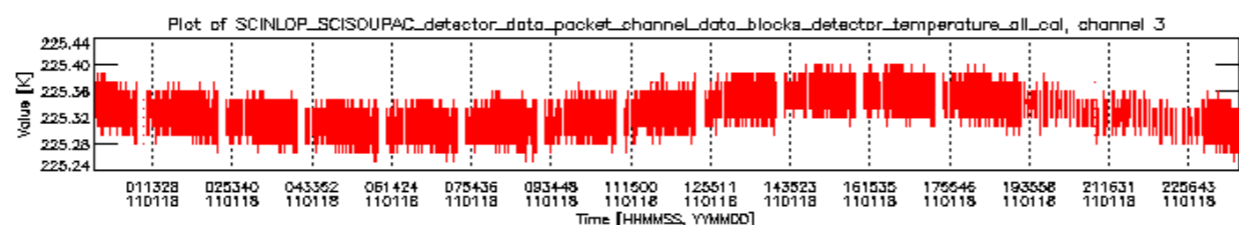
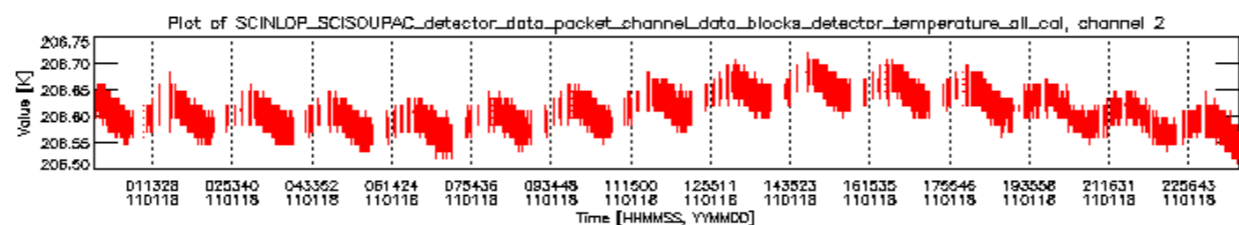
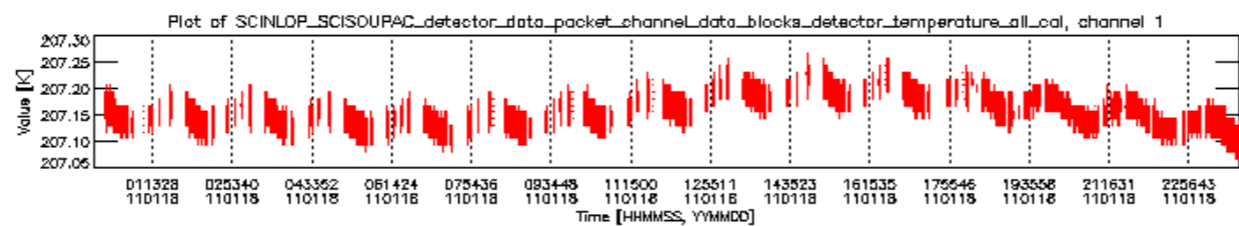




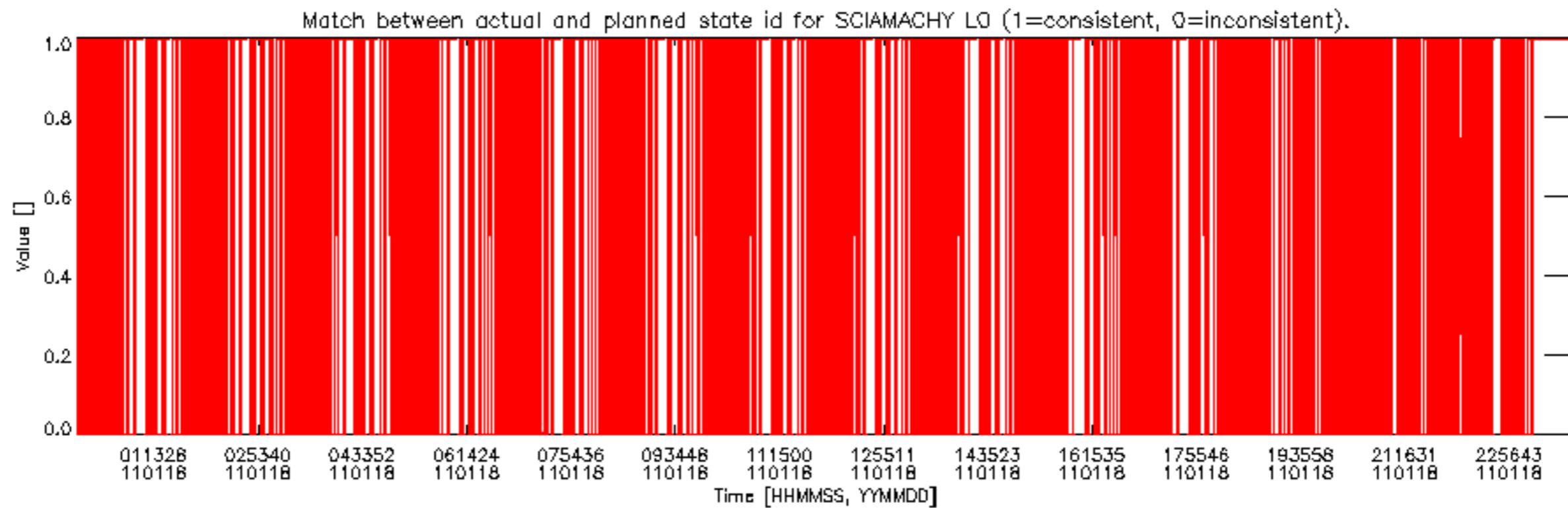
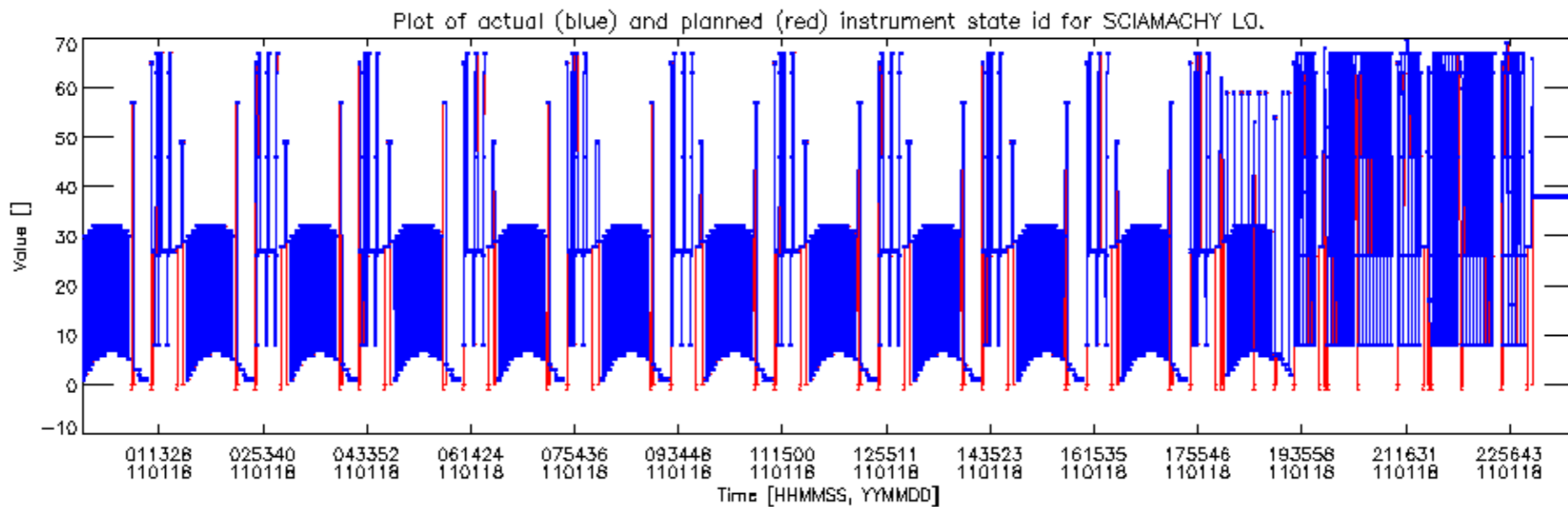












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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