

## 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	08JAN2012 03:01:00
Data source version	KSPT_L0/4504-N
Processing scope for products	01JAN2012 00:00:00 to 02JAN2012 00:00:00
Start time of first product within scope	01JAN2012 00:11:03
Stop time of last product within scope	02JAN2012 01:08:41
Total number of Level 0 products	16
Number of Level 0 products with errors	0

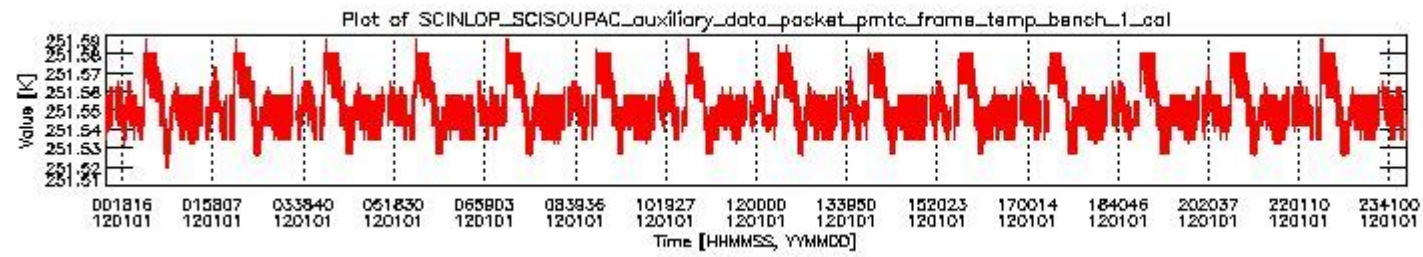
### 0.1.2 Summary per product

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

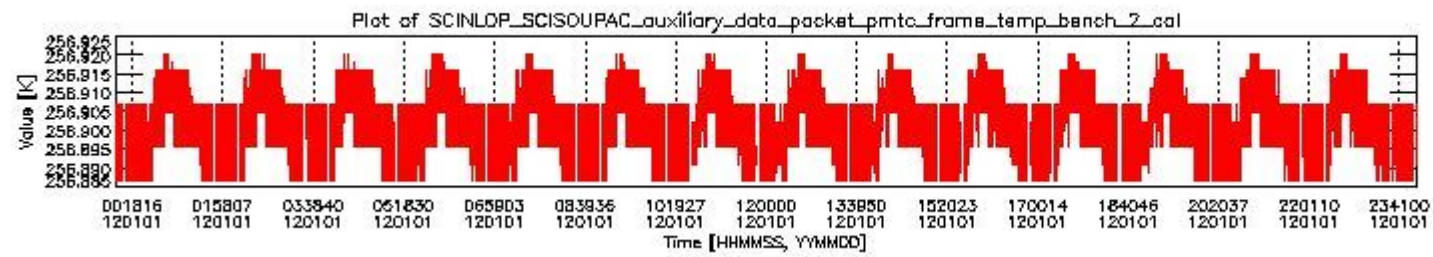
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20120101_001103_000055963110_00145_51452_4613.N1	01JAN2012 00:11:03	01JAN2012 01:44:20	0	0	0	0	0
1	SCI_NL__OPNPDE20120101_014311_000044293110_00146_51453_4614.N1	01JAN2012 01:43:11	01JAN2012 02:57:00	0	0	0	0	0
2	SCI_NL__OPNPDE20120101_025700_000061223110_00147_51454_4615.N1	01JAN2012 02:57:00	01JAN2012 04:39:02	0	0	0	0	0
3	SCI_NL__OPNPDE20120101_043902_000060283110_00148_51455_4616.N1	01JAN2012 04:39:02	01JAN2012 06:19:31	0	0	0	0	0
4	SCI_NL__OPNPDK20120101_061931_000040363110_00149_51456_6809.N1	01JAN2012 06:19:31	01JAN2012 07:26:46	0	0	0	0	0
5	SCI_NL__OPNPDK20120101_072552_000060823110_00150_51457_6810.N1	01JAN2012 07:25:52	01JAN2012 09:07:14	0	0	0	0	0
6	SCI_NL__OPNPDK20120101_090512_000061223110_00151_51458_6811.N1	01JAN2012 09:05:12	01JAN2012 10:47:14	0	0	0	0	0
7	SCI_NL__OPNPDK20120101_104619_000060143110_00152_51459_6812.N1	01JAN2012 10:46:19	01JAN2012 12:26:33	0	0	0	0	0
8	SCI_NL__OPNPDK20120101_122539_000059053110_00153_51460_6813.N1	01JAN2012 12:25:39	01JAN2012 14:04:04	0	0	0	0	0
9	SCI_NL__OPNPDK20120101_140147_000060143110_00154_51461_6814.N1	01JAN2012 14:01:47	01JAN2012 15:42:00	0	0	0	0	0
10	SCI_NL__OPNPDK20120101_154200_000059043110_00155_51462_6815.N1	01JAN2012 15:42:00	01JAN2012 17:20:25	0	0	0	0	0
11	SCI_NL__OPNPDK20120101_171836_000060143110_00156_51463_6816.N1	01JAN2012 17:18:36	01JAN2012 18:58:50	0	0	0	0	0
12	SCI_NL__OPNPDK20120101_185850_000057843110_00157_51464_6817.N1	01JAN2012 18:58:50	01JAN2012 20:35:14	0	0	0	0	0
13	SCI_NL__OPNPDE20120101_203430_000044243110_00158_51465_4617.N1	01JAN2012 20:34:30	01JAN2012 21:48:14	0	0	0	0	0
14	SCI_NL__OPNPDE20120101_214705_000060973110_00158_51465_4618.N1	01JAN2012 21:47:05	01JAN2012 23:28:42	0	0	0	0	0
15	SCI_NL__OPNPDE20120101_232842_000059993110_00159_51466_4619.N1	01JAN2012 23:28:42	02JAN2012 01:08:41	0	0	0	0	0

## 0.2 Product Quality Indicators

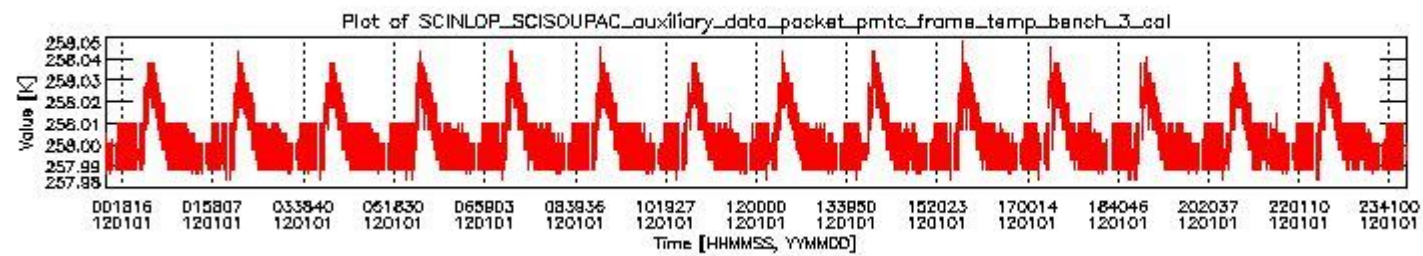
This section shows information about product quality, currently temperatures.



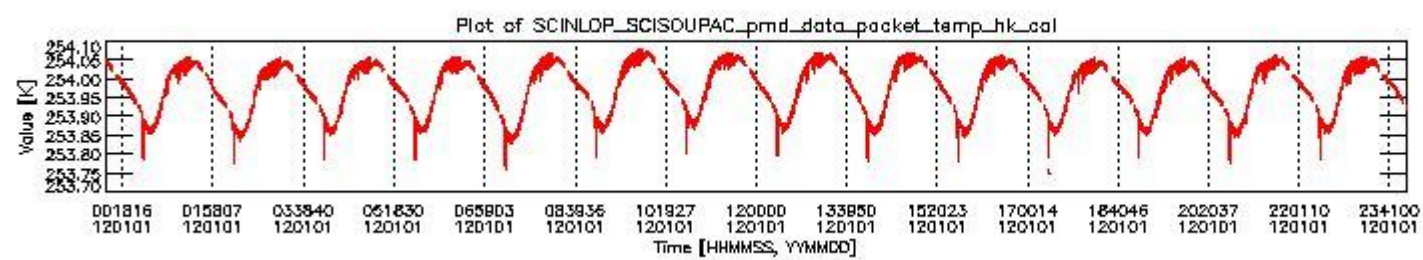
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20120101\_0.PNG



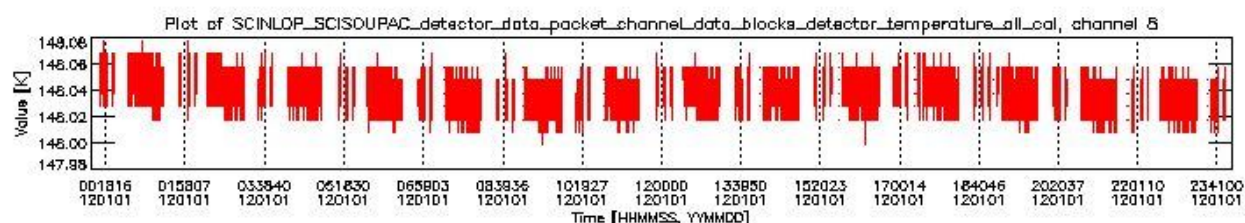
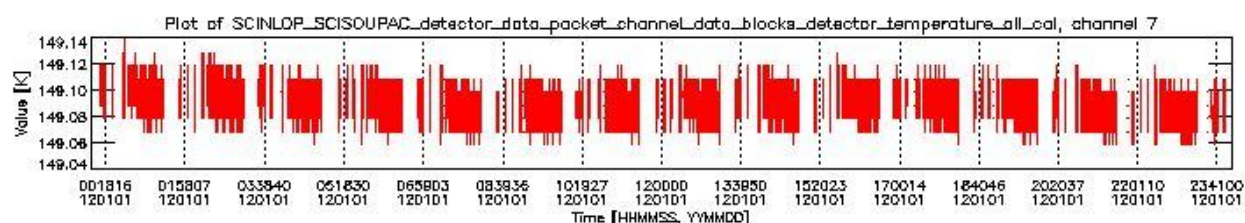
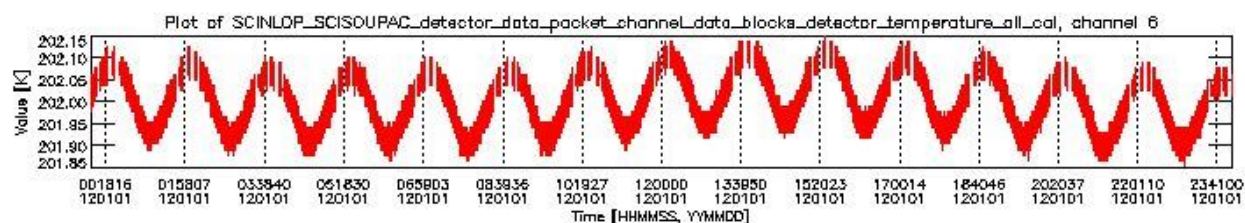
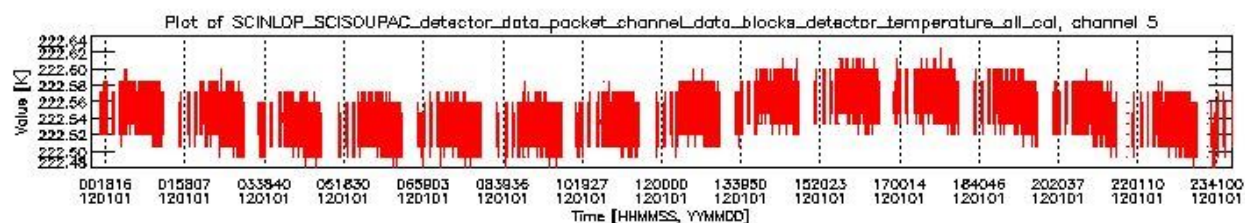
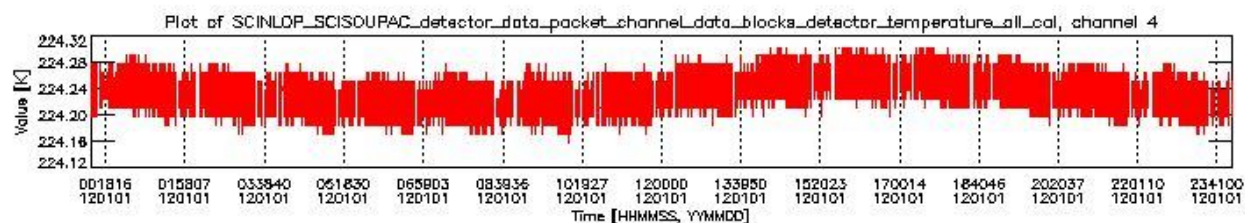
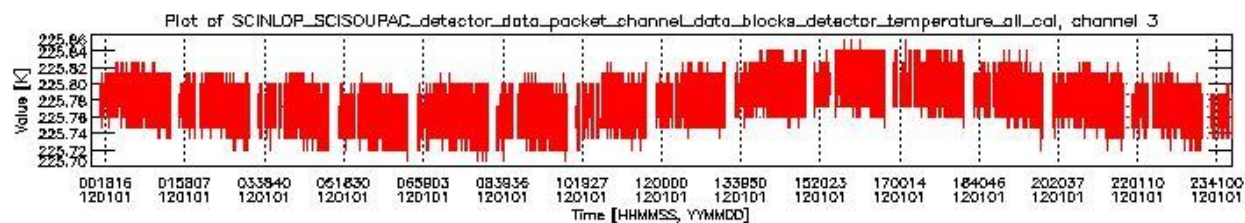
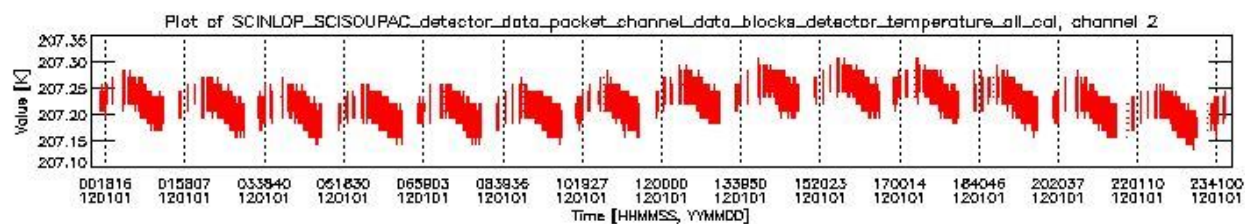
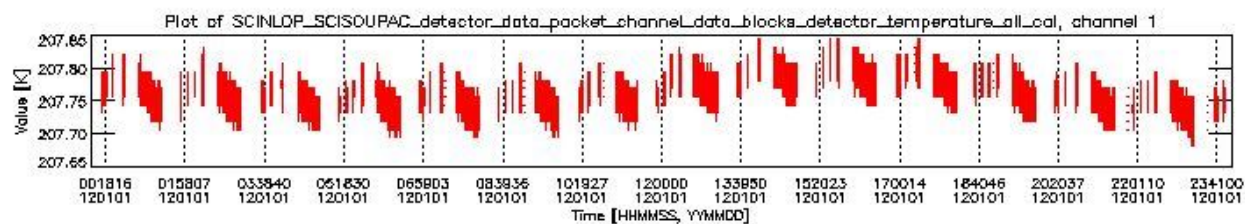
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20120101\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20120101\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20120101\_3.PNG

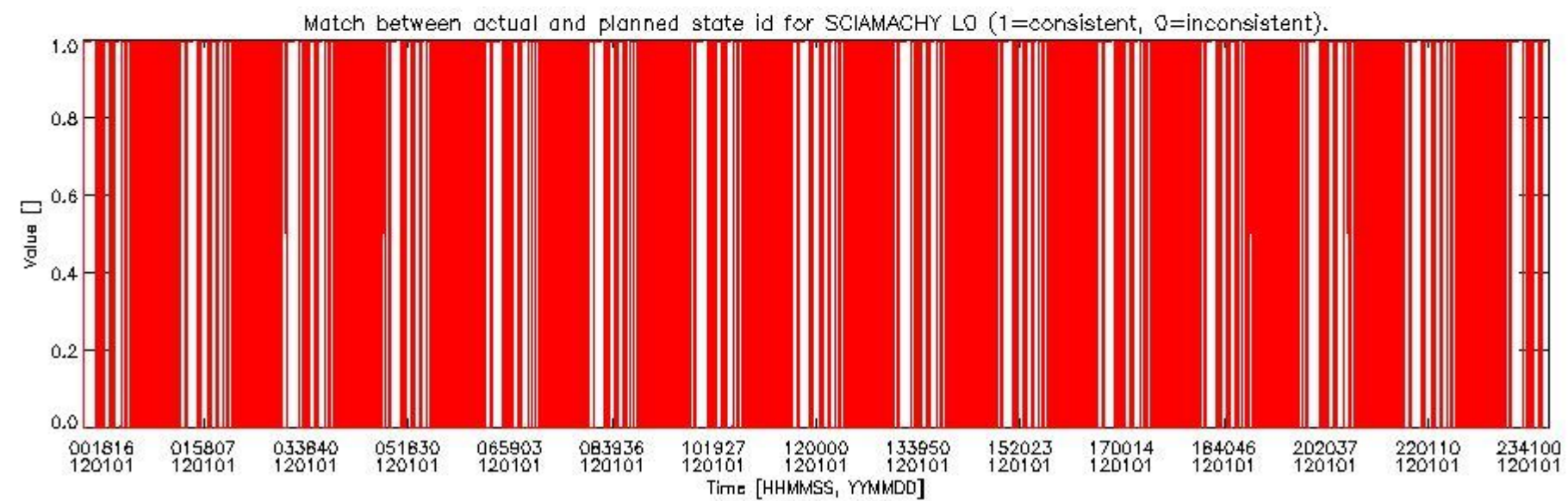
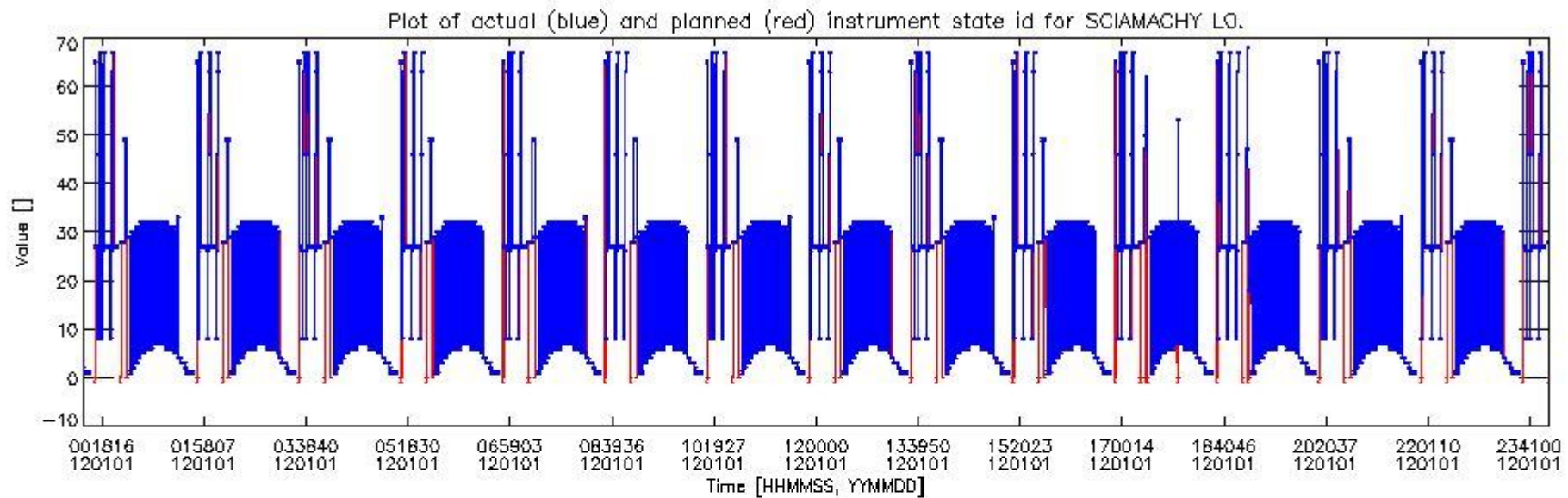


### 0.3 State monitoring

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: **43044**

#	Actual time	Actual value	Planned time	Planned value
0	01JAN2012 00:11:03.634271	65	01JAN2012 00:11:03.634271	0
1	01JAN2012 00:11:04.259271	65	01JAN2012 00:11:04.259271	0
2	01JAN2012 00:11:04.759271	65	01JAN2012 00:11:04.759271	0
3	01JAN2012 00:11:05.259271	65	01JAN2012 00:11:05.259271	0
4	01JAN2012 00:11:05.759271	65	01JAN2012 00:11:05.759271	0
5	01JAN2012 00:11:06.259271	65	01JAN2012 00:11:06.259271	0
6	01JAN2012 00:11:06.759271	65	01JAN2012 00:11:06.759271	0
7	01JAN2012 00:11:07.259271	65	01JAN2012 00:11:07.259271	0
8	01JAN2012 00:11:07.759271	65	01JAN2012 00:11:07.759271	0
9	01JAN2012 00:11:08.259271	65	01JAN2012 00:11:08.259271	0
10	01JAN2012 00:11:08.634271	65	01JAN2012 00:11:08.634271	0
11	01JAN2012 00:11:08.759271	65	01JAN2012 00:11:08.759271	0
12	01JAN2012 00:11:09.259271	65	01JAN2012 00:11:09.259271	0
13	01JAN2012 00:11:09.759271	65	01JAN2012 00:11:09.759271	0
14	01JAN2012 00:11:10.259271	65	01JAN2012 00:11:10.259271	0
15	01JAN2012 00:11:10.759271	65	01JAN2012 00:11:10.759271	0
16	01JAN2012 00:11:47.388183	27	01JAN2012 00:11:47.388183	0
17	01JAN2012 00:11:48.388183	27	01JAN2012 00:11:48.388183	0
18	01JAN2012 00:11:49.325683	27	01JAN2012 00:11:49.325683	0
19	01JAN2012 00:11:50.075683	27	01JAN2012 00:11:50.075683	0
	...	...	...	...

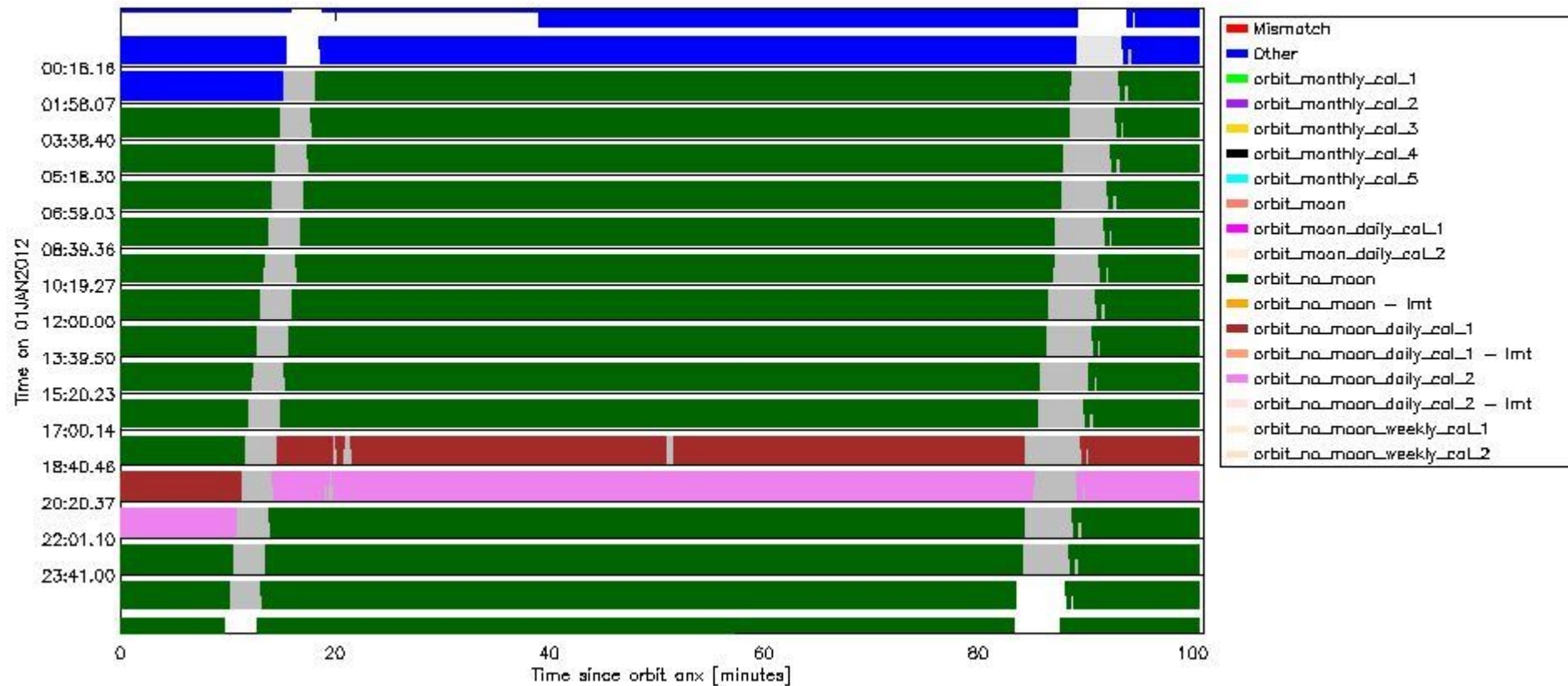


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20120101\_5.PNG

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 01JAN2012.  
 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\_20120101\_6.PNG

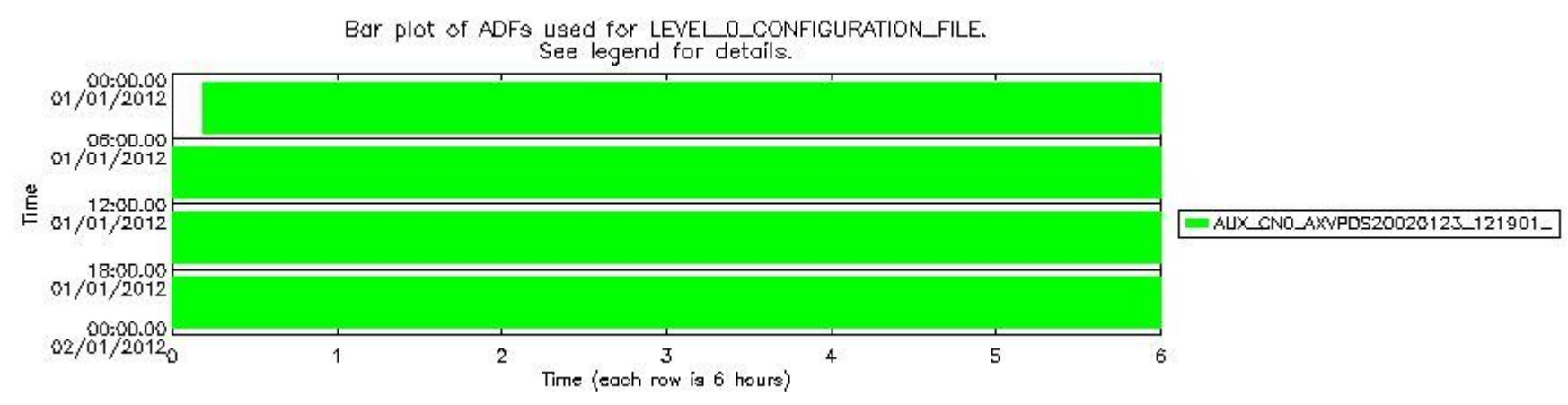
## 0.4 ADF monitoring

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

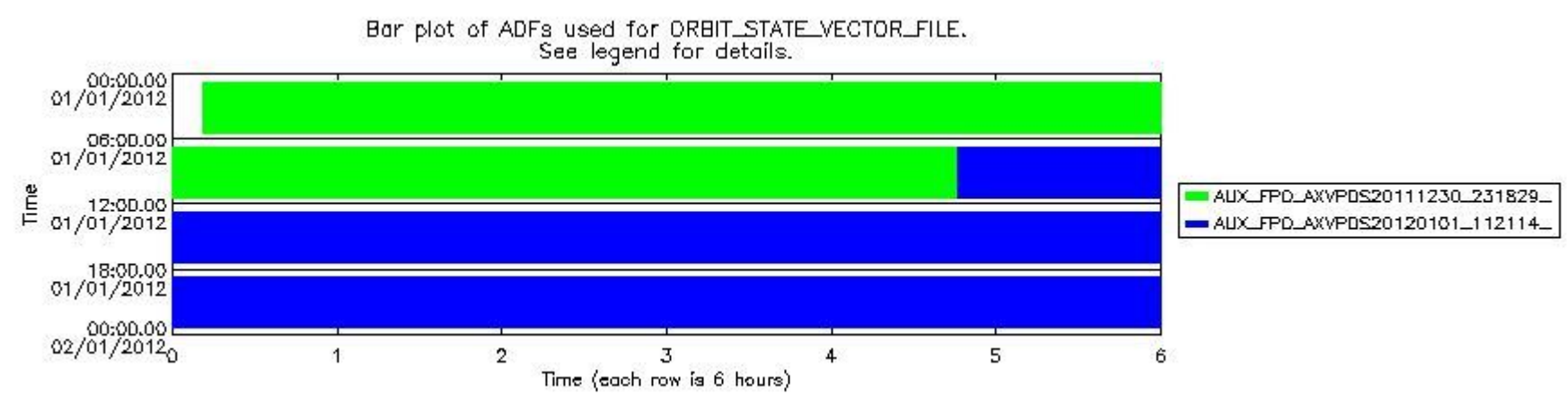
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

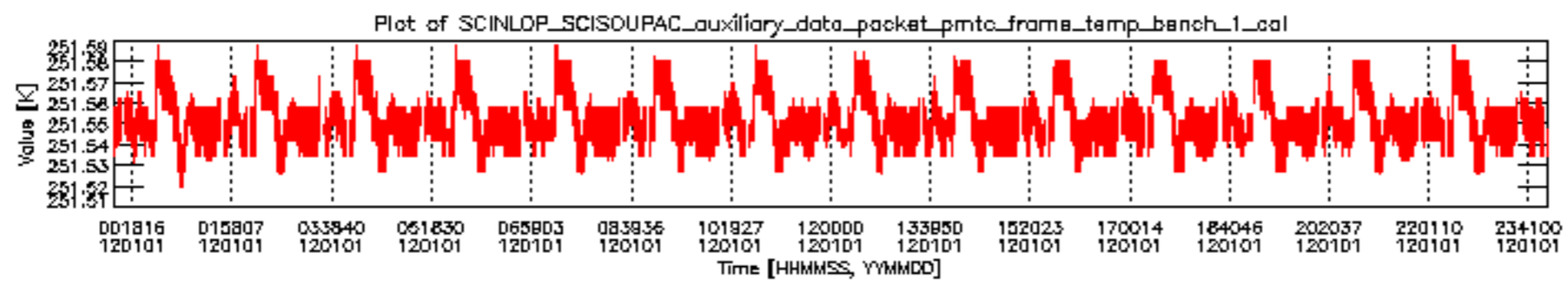
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20111230_231829_20111230_195408_20120109_202734
2	AUX_FPO_AXVPDS20120101_112114_20111231_191723_20120110_213103



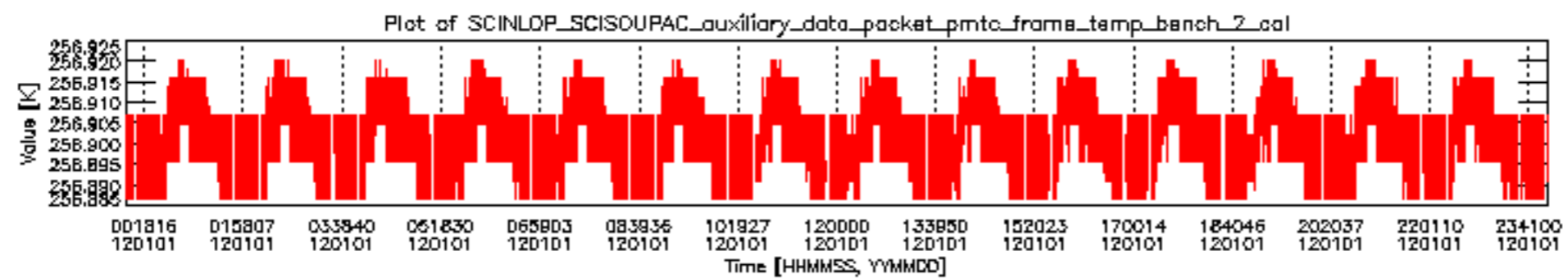
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20120101\_7.PNG

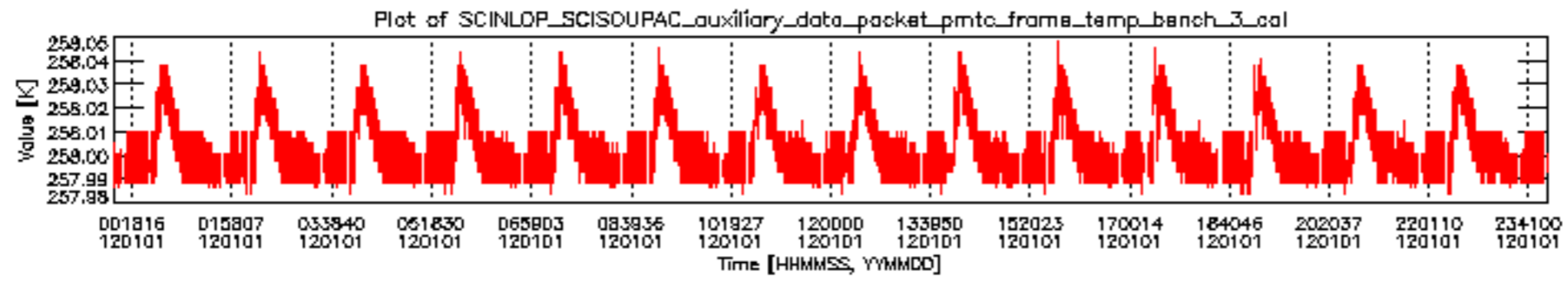


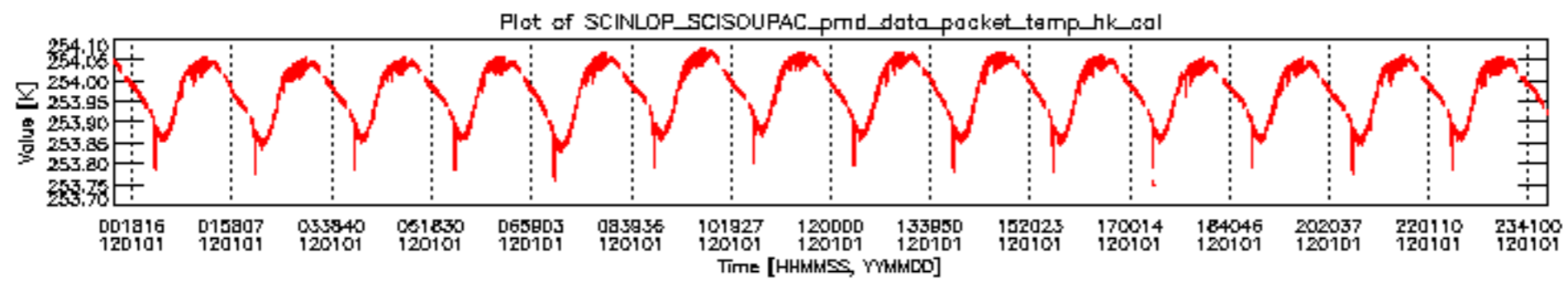
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20120101\_8.PNG

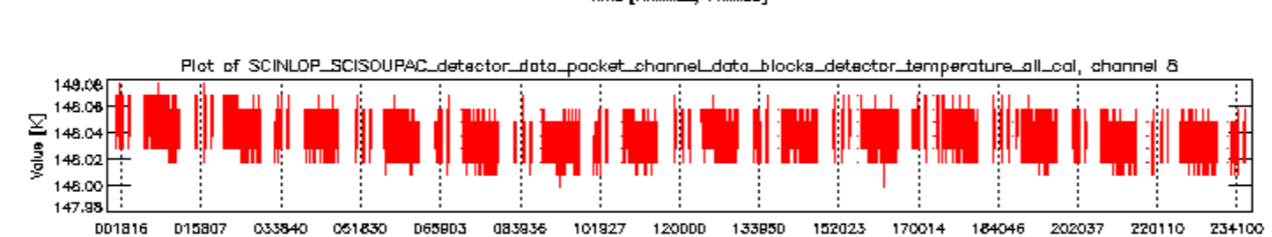
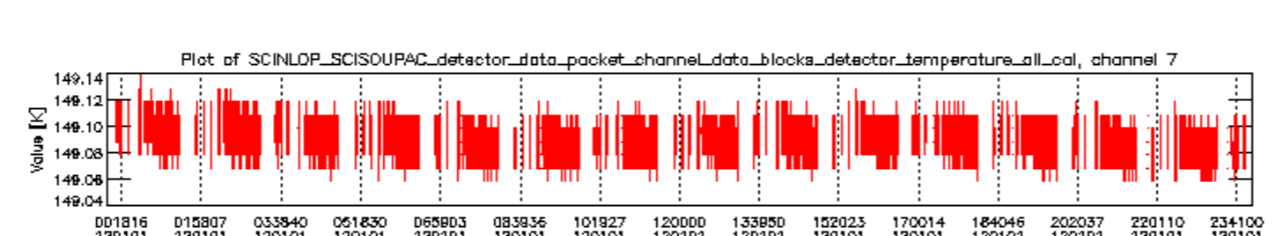
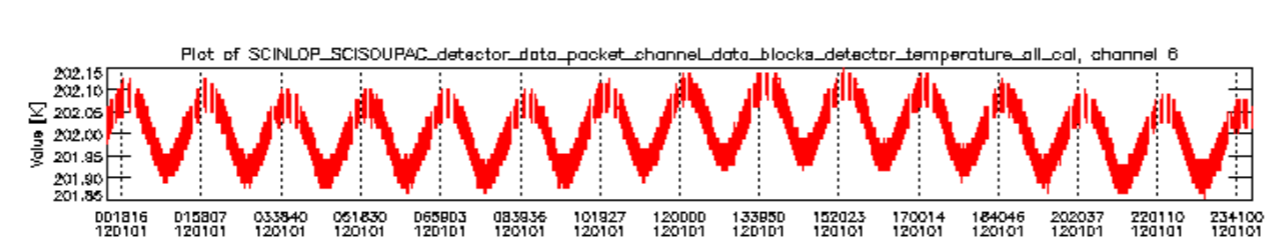
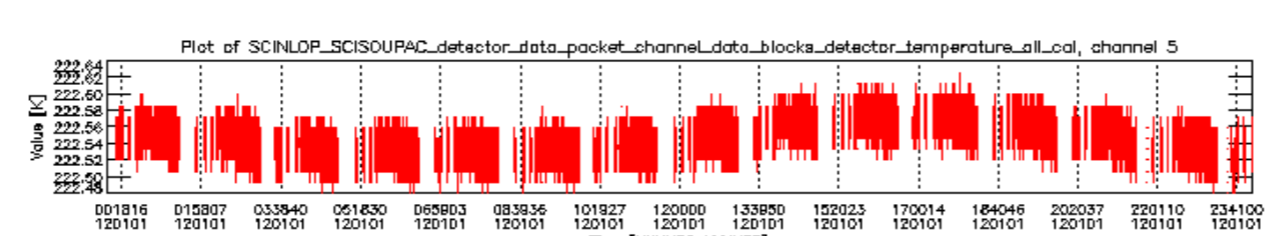
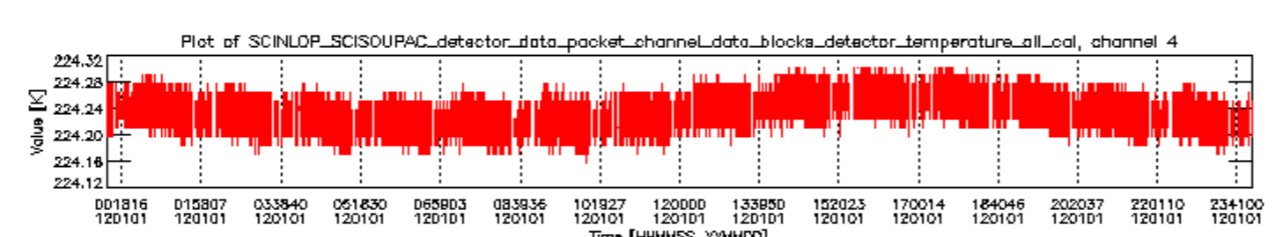
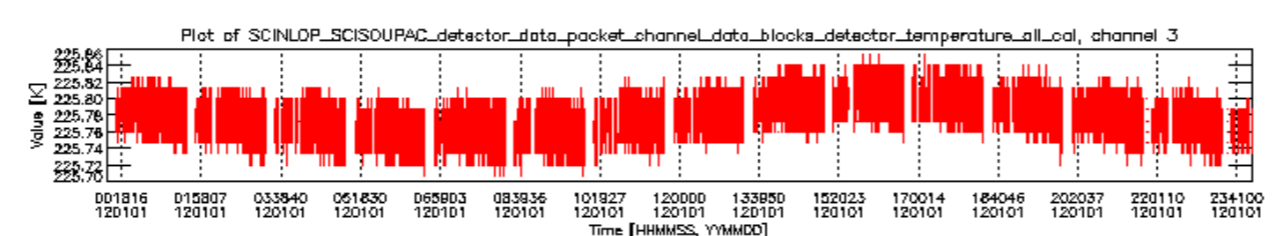
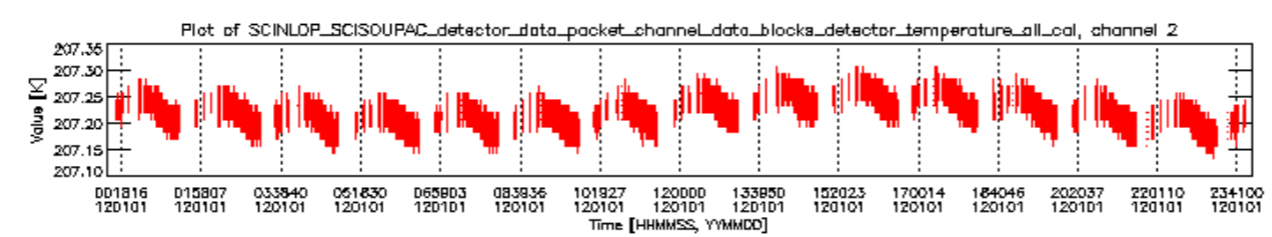
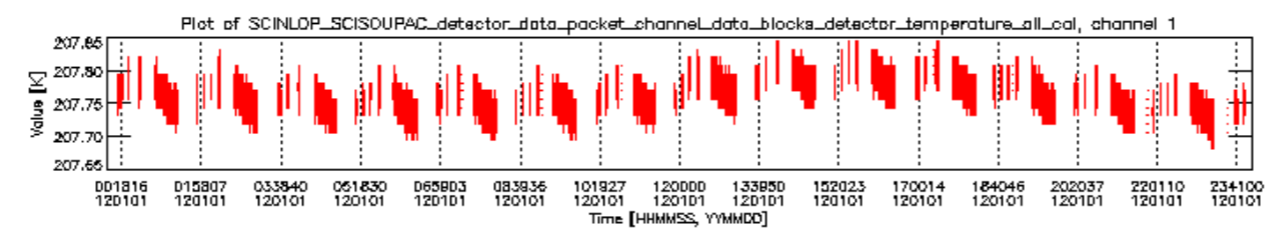


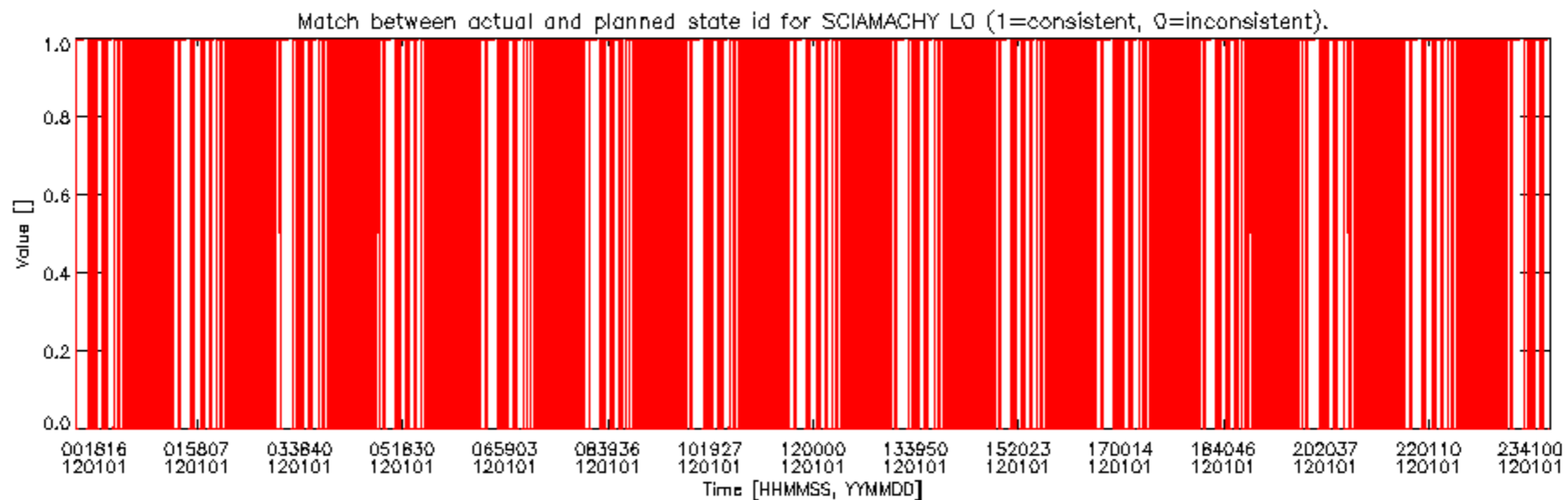
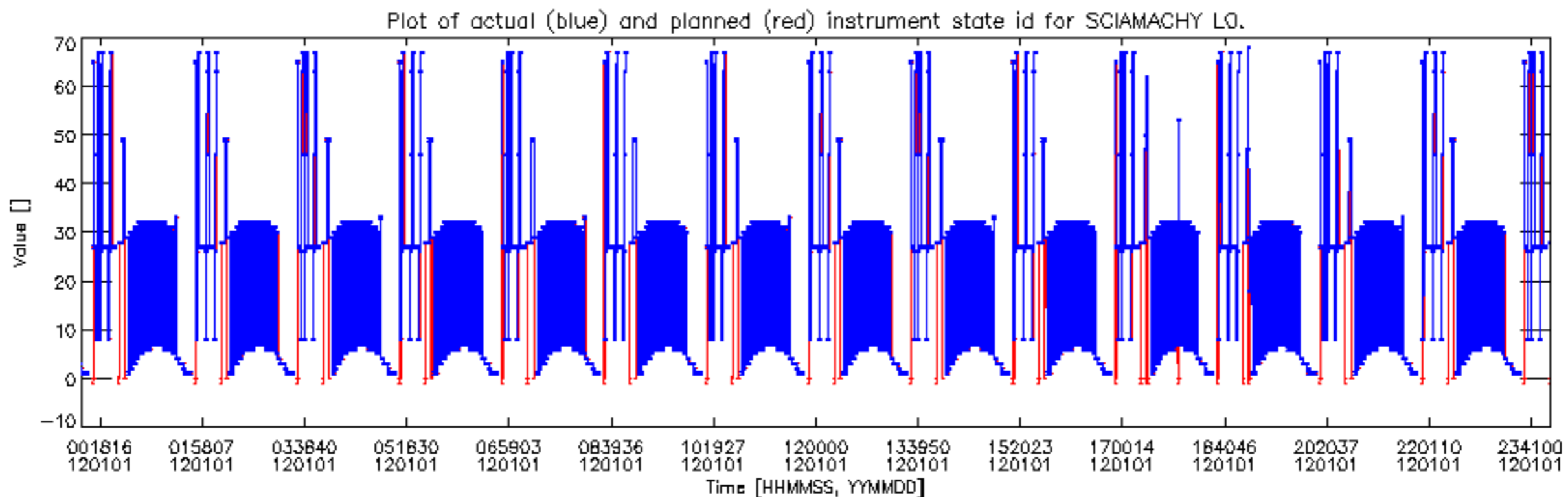












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 01JAN2012.  
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