

## 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	19NOV2010 03:06:58
Data source version	KSPT_L0/4504-N
Processing scope for products	12NOV2010 00:00:00 to 13NOV2010 00:00:00
Start time of first product within scope	12NOV2010 00:19:21
Stop time of last product within scope	13NOV2010 01:17:54
Total number of Level 0 products	16
Number of Level 0 products with errors	1

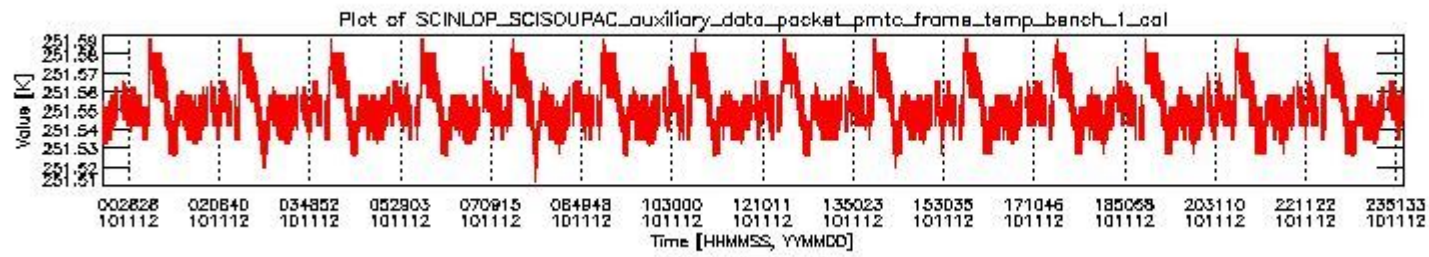
### 0.1.2 Summary per product

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

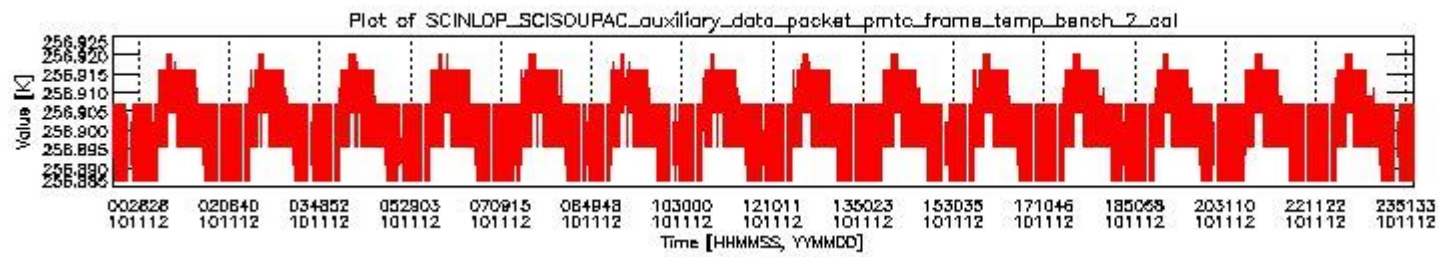
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20101112_001921_000057113096_00217_45490_1889.N1	12NOV2010 00:19:21	12NOV2010 01:54:32	0	0	0	0	0
1	SCI_NL__OPNPDE20101112_015324_000044553096_00218_45491_1890.N1	12NOV2010 01:53:24	12NOV2010 03:07:39	0	0	0	0	0
2	SCI_NL__OPNPDE20101112_030645_000061373096_00219_45492_1891.N1	12NOV2010 03:06:45	12NOV2010 04:49:02	0	0	0	0	0
3	SCI_NL__OPNPDE20101112_044902_000060143096_00220_45493_1892.N1	12NOV2010 04:49:02	12NOV2010 06:29:16	0	0	0	0	0
4	SCI_NL__OPNPDK20101112_062808_000041883096_00221_45494_2946.N1	12NOV2010 06:28:08	12NOV2010 07:37:55	0	0	0	0	0
5	SCI_NL__OPNPDK20101112_073647_000060693096_00222_45495_2947.N1	12NOV2010 07:36:47	12NOV2010 09:17:55	0	0	0	0	0
6	SCI_NL__OPNPDK20101112_091755_000058373096_00223_45496_2948.N1	12NOV2010 09:17:55	12NOV2010 10:55:13	0	0	0	0	0
7	SCI_NL__OPNPDK20101112_105419_000061233096_00224_45497_2949.N1	12NOV2010 10:54:19	12NOV2010 12:36:21	1	1	0	0	0
8	SCI_NL__OPNPDK20101112_123527_000059603096_00225_45498_2950.N1	12NOV2010 12:35:27	12NOV2010 14:14:47	0	0	0	0	0
9	SCI_NL__OPNPDK20101112_141353_000059603096_00226_45499_2951.N1	12NOV2010 14:13:53	12NOV2010 15:53:13	0	0	0	0	0
10	SCI_NL__OPNPDK20101112_155055_000059593096_00227_45500_2952.N1	12NOV2010 15:50:55	12NOV2010 17:30:15	0	0	0	0	0
11	SCI_NL__OPNPDK20101112_172921_000055993096_00228_45501_2953.N1	12NOV2010 17:29:21	12NOV2010 19:02:40	0	0	0	0	0
12	SCI_NL__OPNPDK20101112_190747_000057123096_00229_45502_2954.N1	12NOV2010 19:07:47	12NOV2010 20:42:59	0	0	0	0	0
13	SCI_NL__OPNPDE20101112_204801_000041643096_00230_45503_1893.N1	12NOV2010 20:48:01	12NOV2010 21:57:25	0	0	0	0	0
14	SCI_NL__OPNPDE20101112_215725_000060003096_00230_45503_1894.N1	12NOV2010 21:57:25	12NOV2010 23:37:25	0	0	0	0	0
15	SCI_NL__OPNPDE20101112_234243_000057113096_00231_45504_1895.N1	12NOV2010 23:42:43	13NOV2010 01:17:54	0	0	0	0	0

## 0.2 Product Quality Indicators

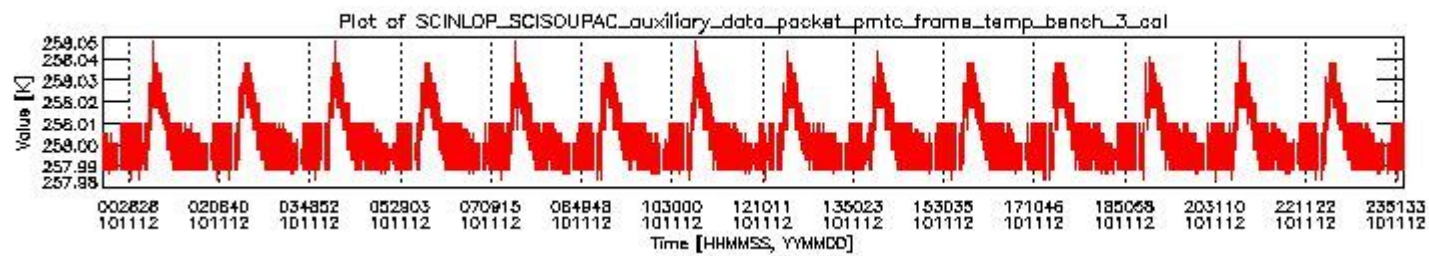
This section shows information about product quality, currently temperatures.



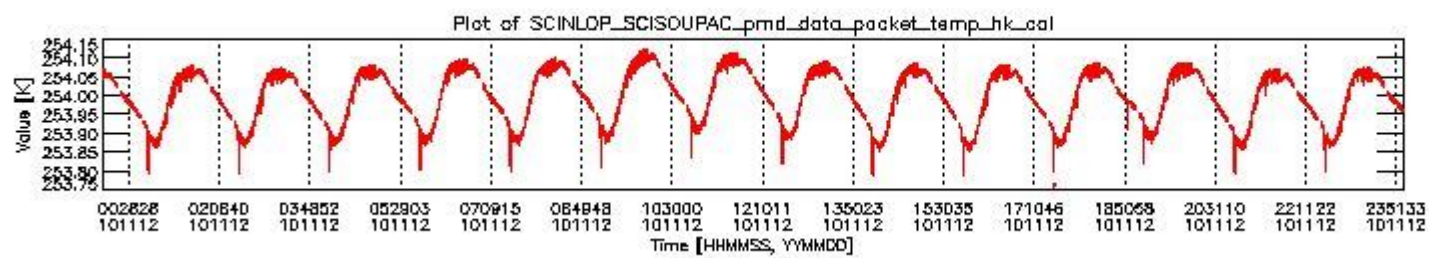
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101112\_0.PNG



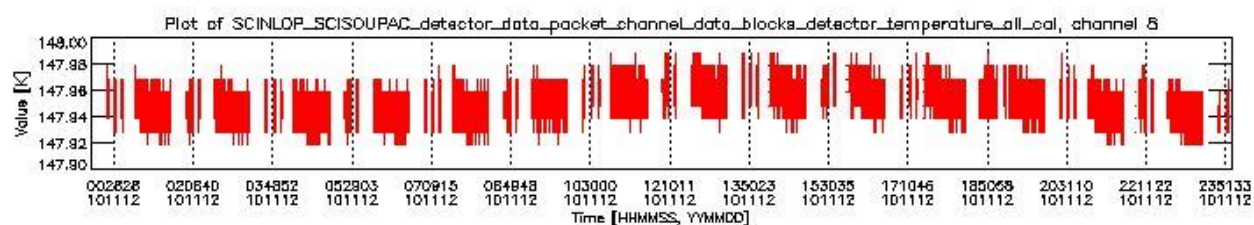
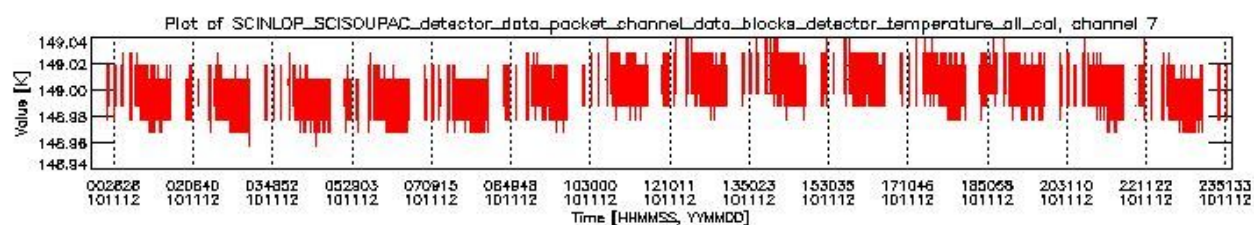
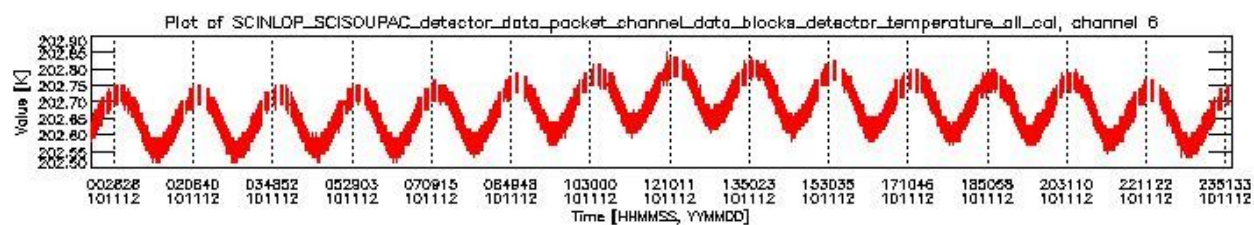
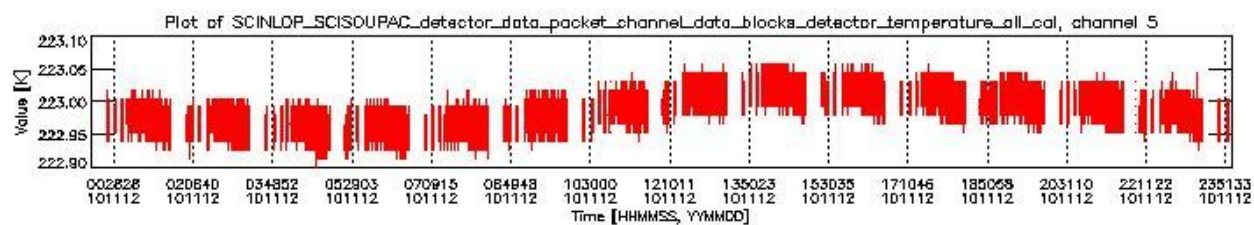
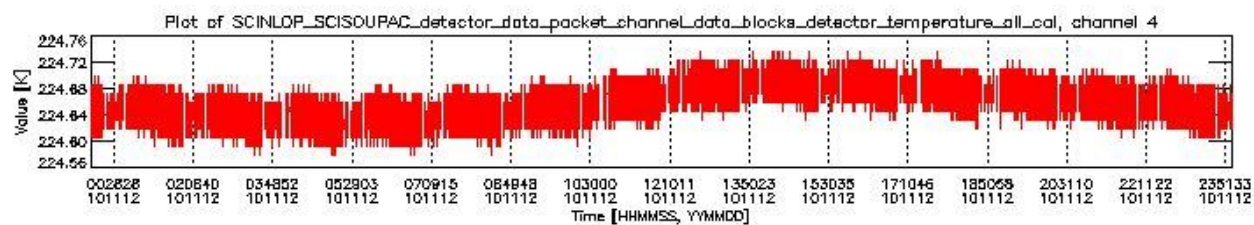
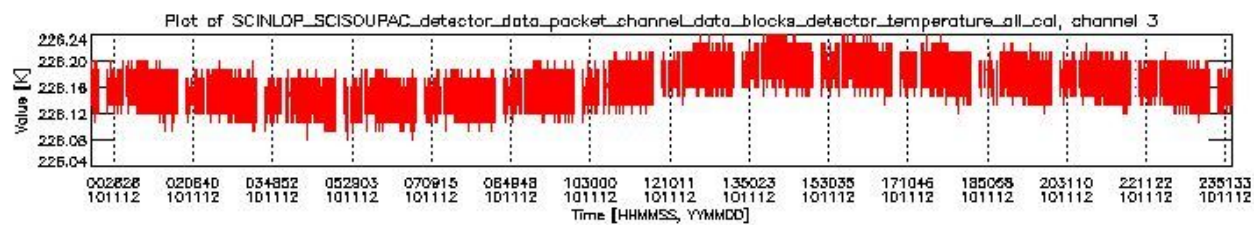
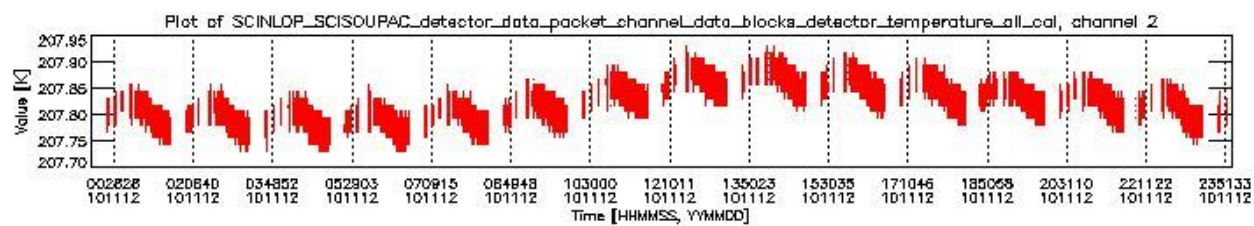
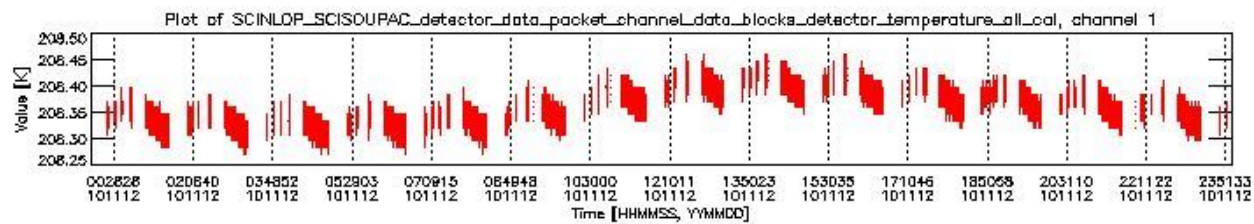
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101112\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101112\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101112\_3.PNG

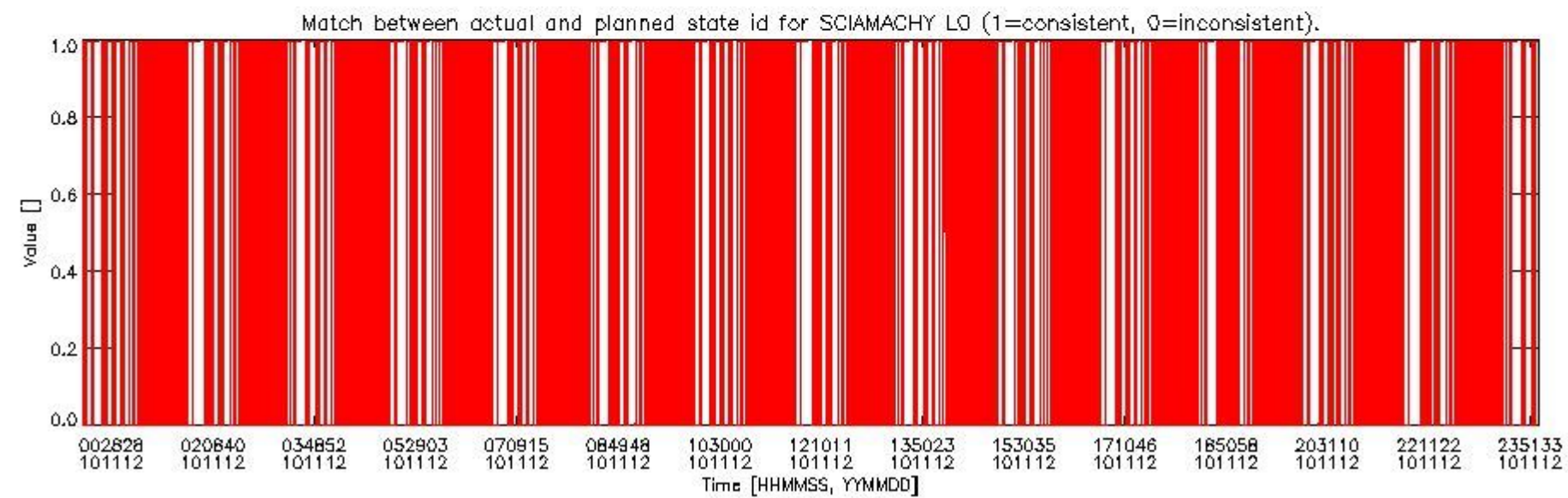
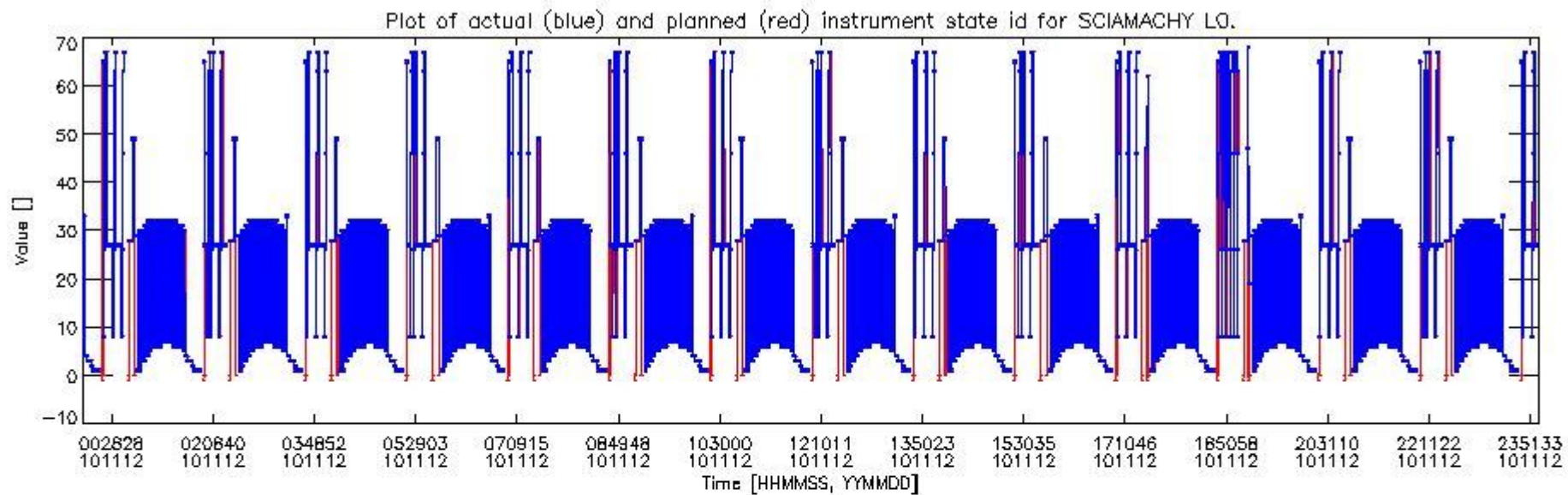


### 0.3 State monitoring

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: **28506**

#	Actual time	Actual value	Planned time	Planned value
0	12NOV2010 00:00:35.716293	33	12NOV2010 00:00:35.716293	5
1	12NOV2010 00:00:36.716293	33	12NOV2010 00:00:36.716293	5
2	12NOV2010 00:00:37.653793	33	12NOV2010 00:00:37.653793	5
3	12NOV2010 00:00:38.403793	33	12NOV2010 00:00:38.403793	5
4	12NOV2010 00:00:39.341293	33	12NOV2010 00:00:39.341293	5
5	12NOV2010 00:00:40.091293	33	12NOV2010 00:00:40.091293	5
6	12NOV2010 00:00:40.716293	33	12NOV2010 00:00:40.716293	5
7	12NOV2010 00:00:41.028793	33	12NOV2010 00:00:41.028793	5
8	12NOV2010 00:00:41.778793	33	12NOV2010 00:00:41.778793	5
9	12NOV2010 00:01:29.903800	4	12NOV2010 00:01:29.903800	33
10	12NOV2010 00:01:30.153800	4	12NOV2010 00:01:30.153800	33
11	12NOV2010 00:01:30.278800	4	12NOV2010 00:01:30.278800	33
12	12NOV2010 00:01:30.403800	4	12NOV2010 00:01:30.403800	33
13	12NOV2010 00:01:30.528800	4	12NOV2010 00:01:30.528800	33
14	12NOV2010 00:01:30.653800	4	12NOV2010 00:01:30.653800	33
15	12NOV2010 00:01:30.778800	4	12NOV2010 00:01:30.778800	33
16	12NOV2010 00:01:30.903800	4	12NOV2010 00:01:30.903800	33
17	12NOV2010 00:01:31.028800	4	12NOV2010 00:01:31.028800	33
18	12NOV2010 00:01:31.153800	4	12NOV2010 00:01:31.153800	33
19	12NOV2010 00:01:31.278800	4	12NOV2010 00:01:31.278800	33
...	...	...	...	...

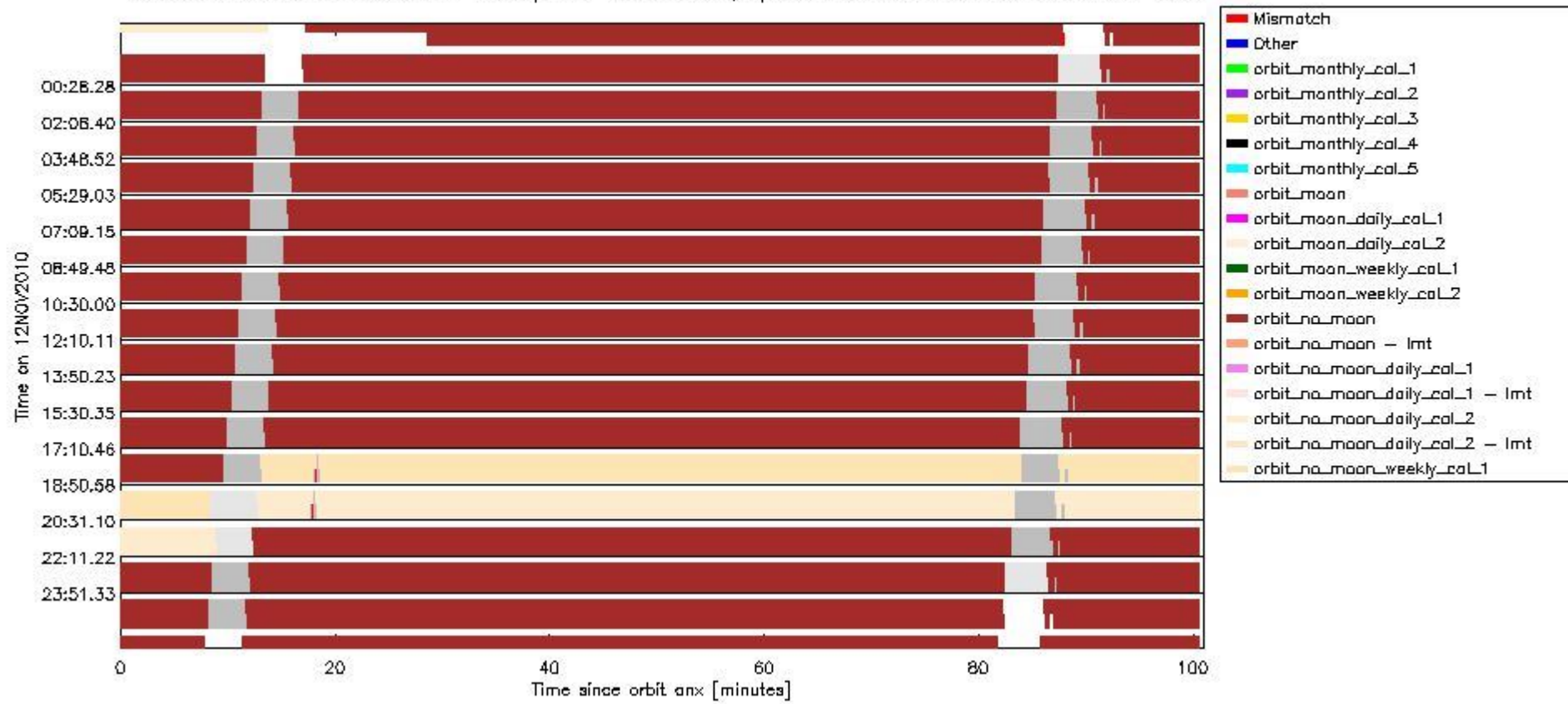


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101112\_5.PNG

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 12NOV2010.  
 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\_20101112\_6.PNG

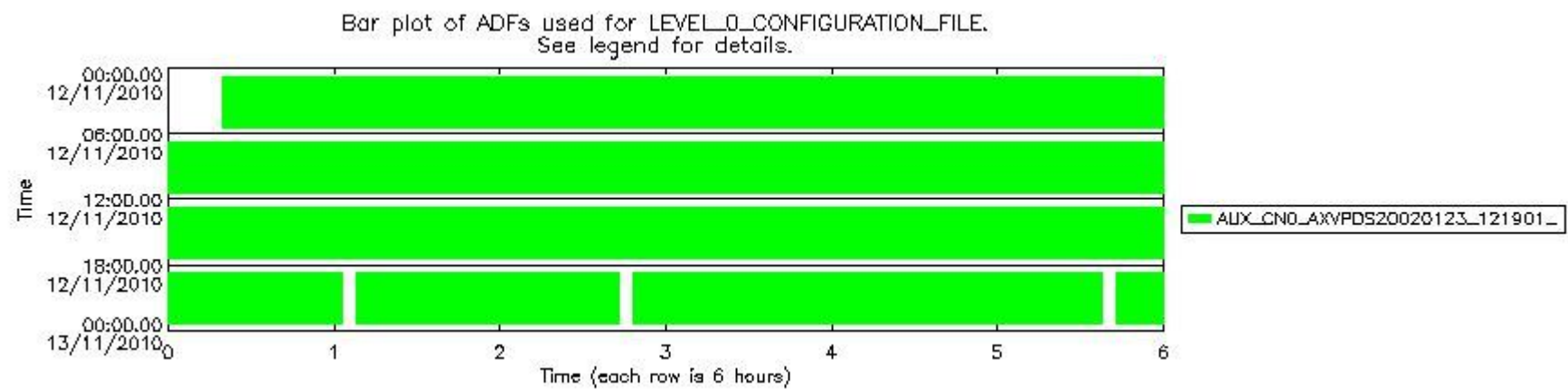
## 0.4 ADF monitoring

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

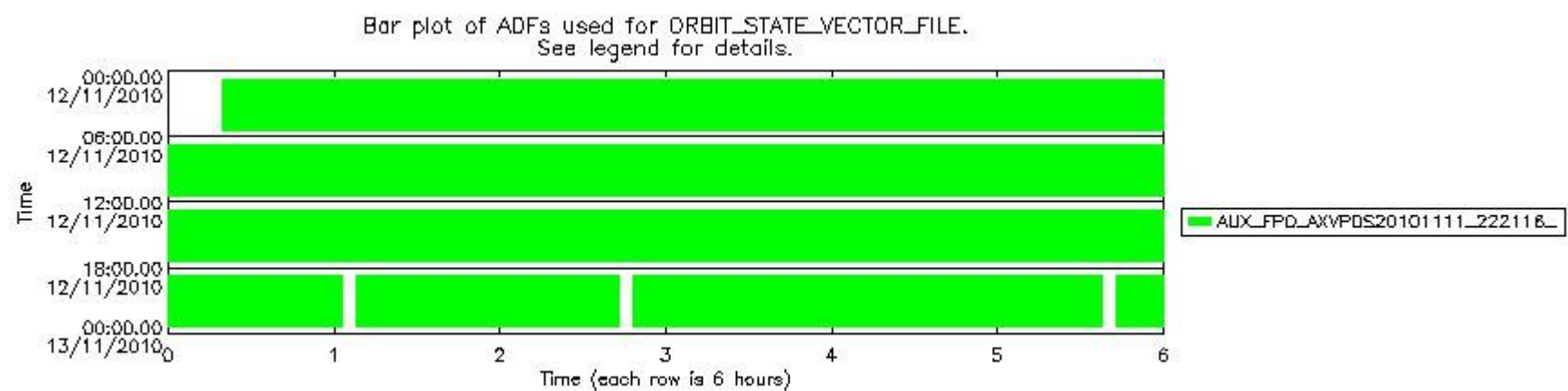
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

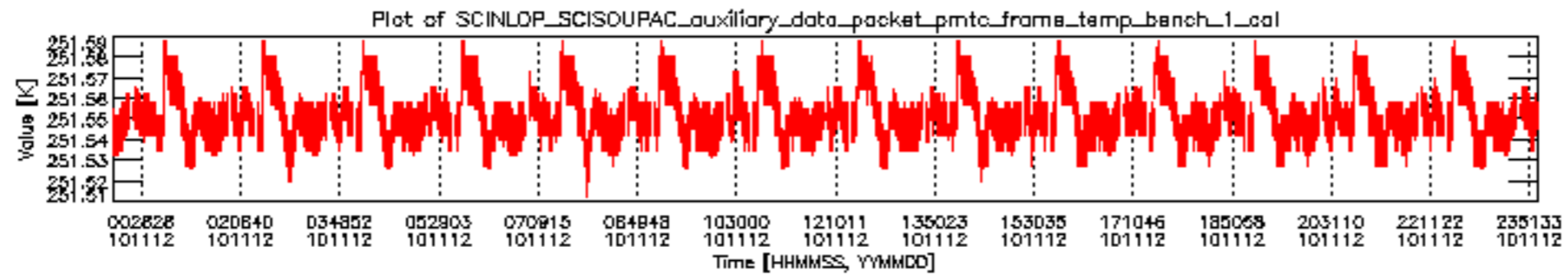
Number	ADF
	<b>CNO (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CNO_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20101111_222116_20101111_192744_20101121_200125



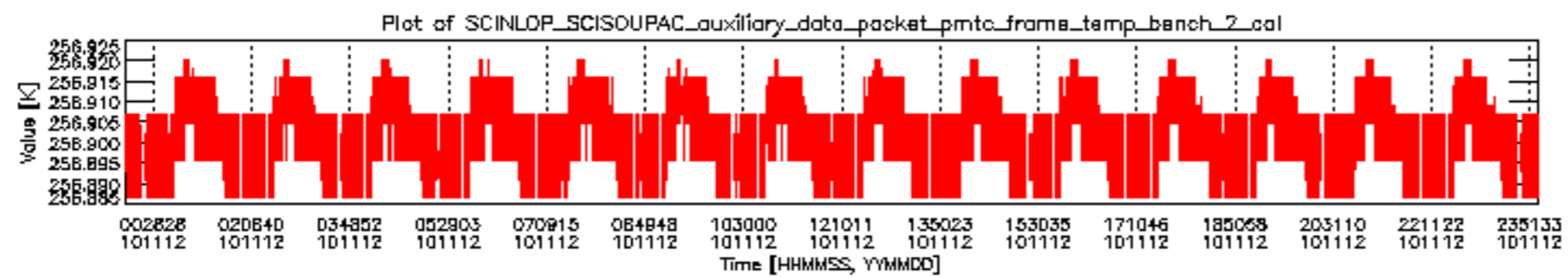
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101112\_7.PNG

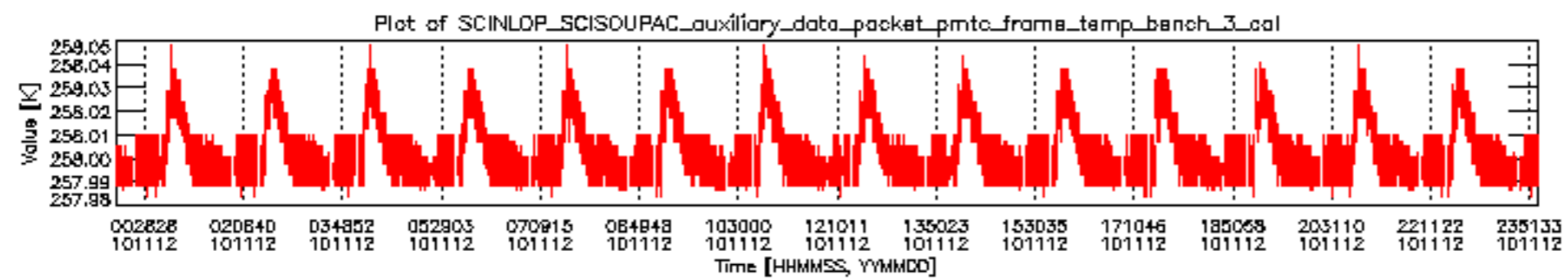


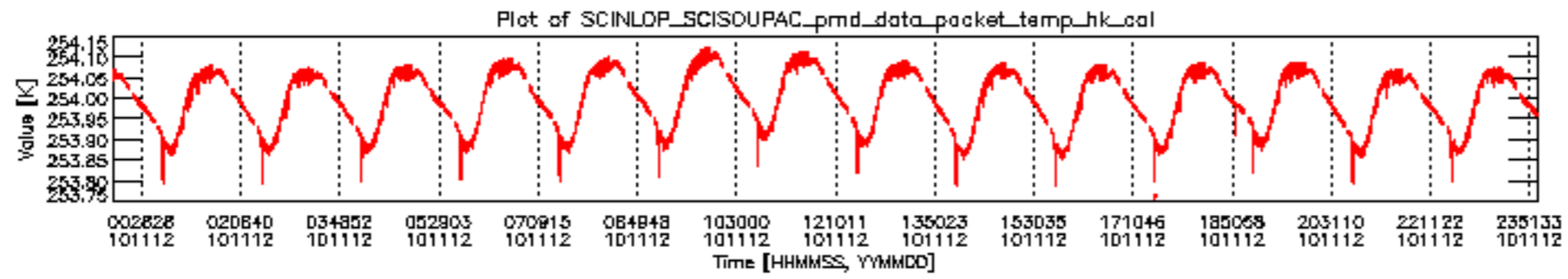
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20101112\_8.PNG

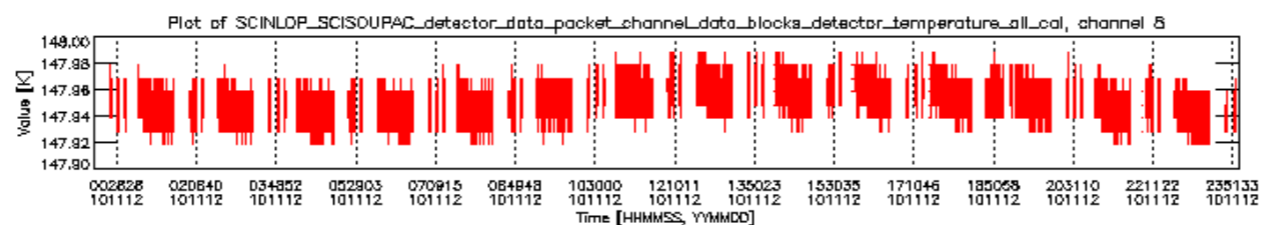
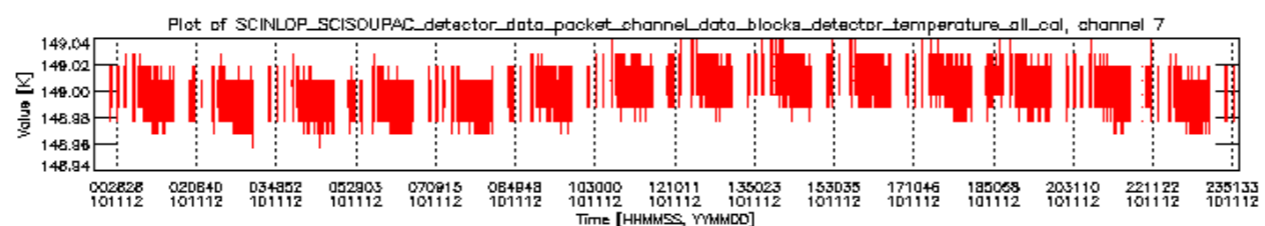
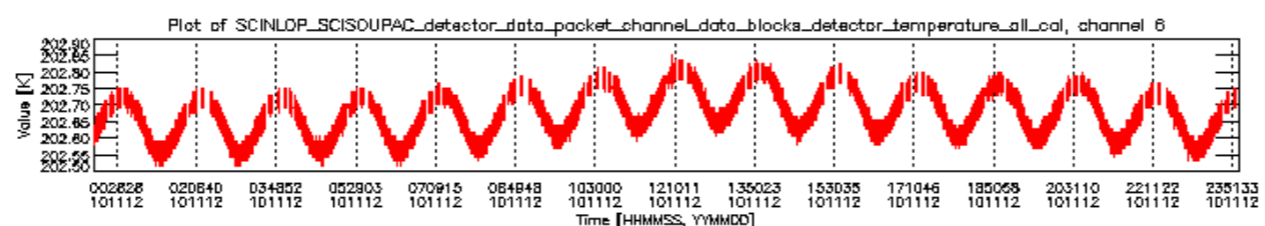
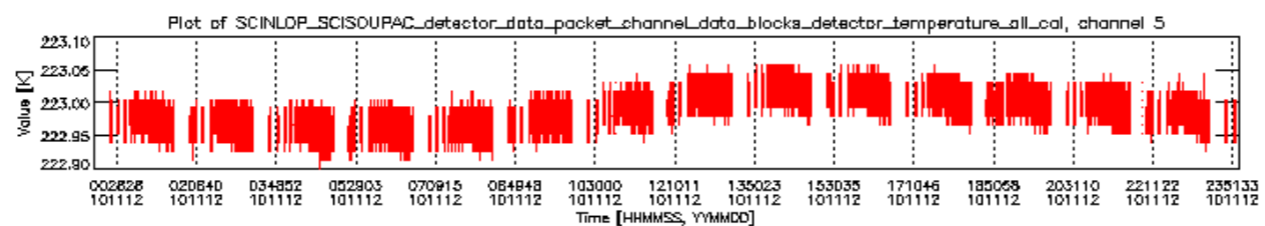
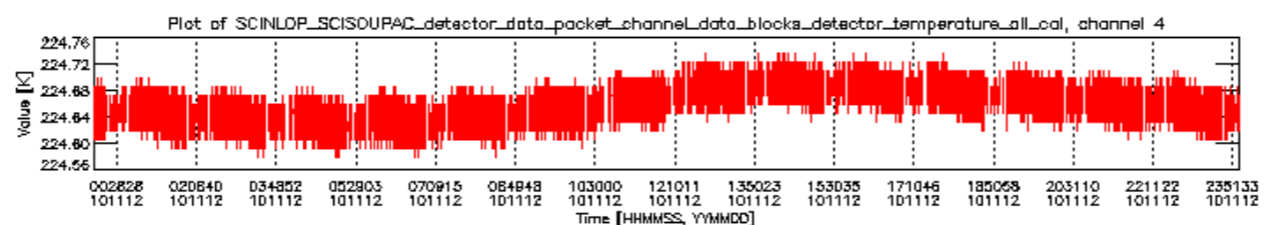
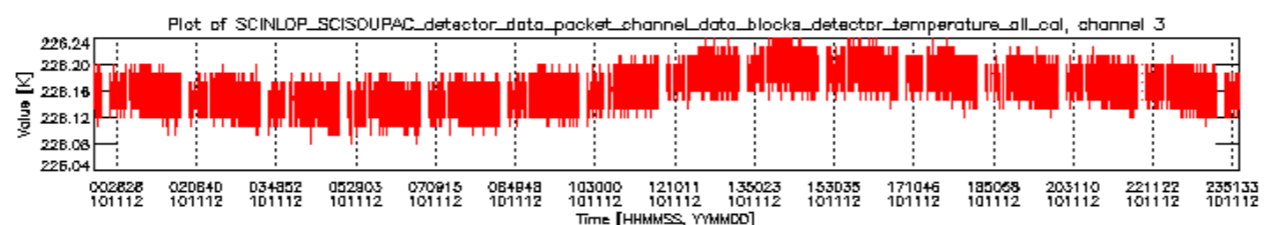
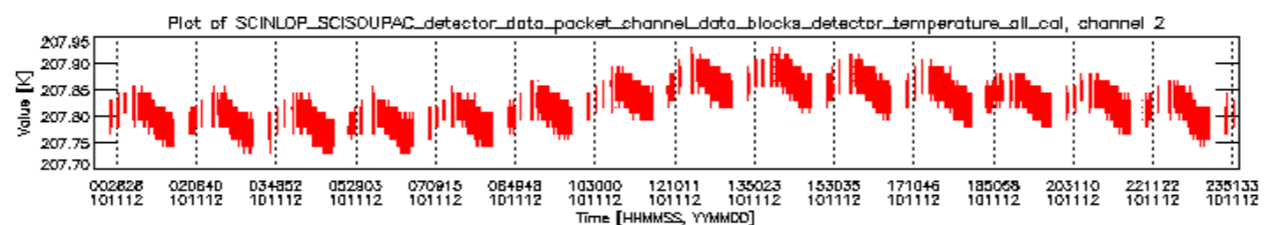
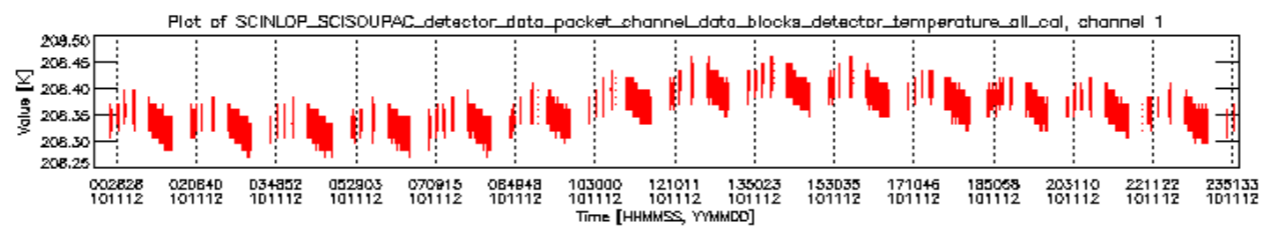


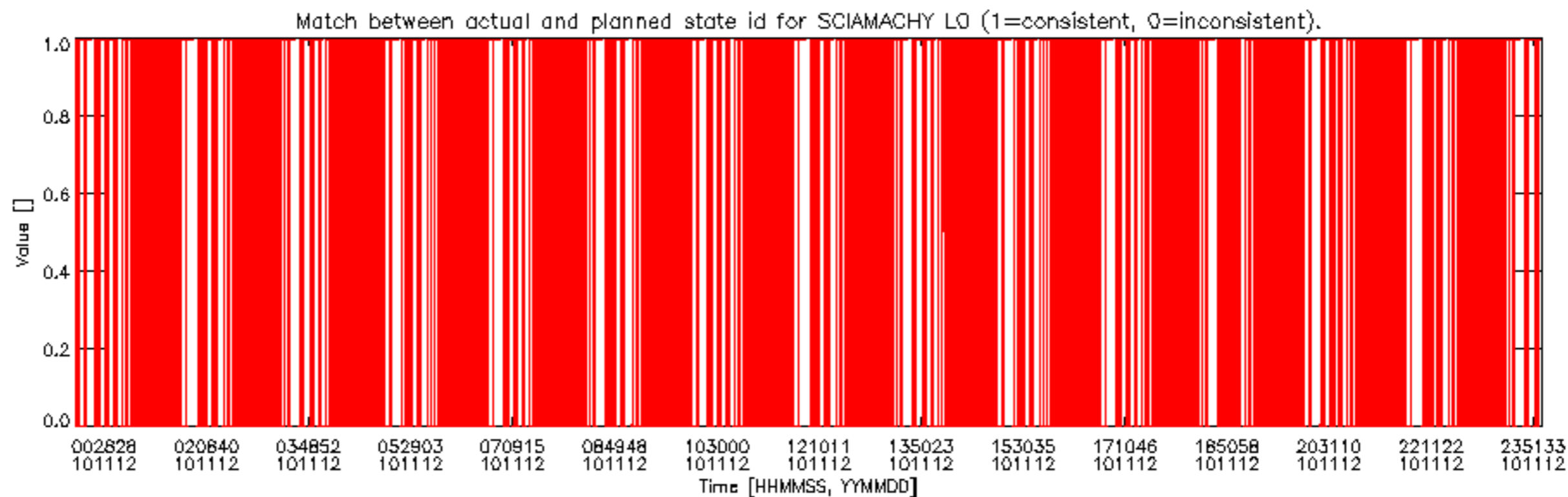
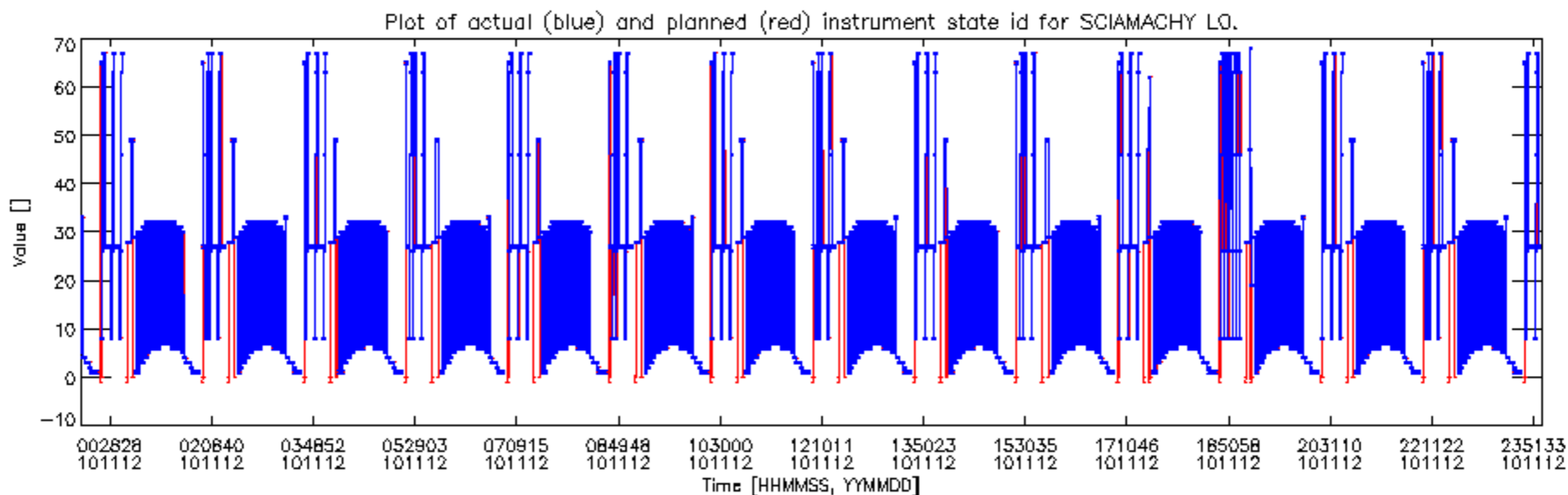












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 12NOV2010.  
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