

## 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	22DEC2011 14:53:57
Data source version	KSPT_L0/4504-N
Processing scope for products	04DEC2011 00:00:00 to 05DEC2011 00:00:00
Start time of first product within scope	04DEC2011 00:32:00
Stop time of last product within scope	05DEC2011 01:35:17
Total number of Level 0 products	15
Number of Level 0 products with errors	0

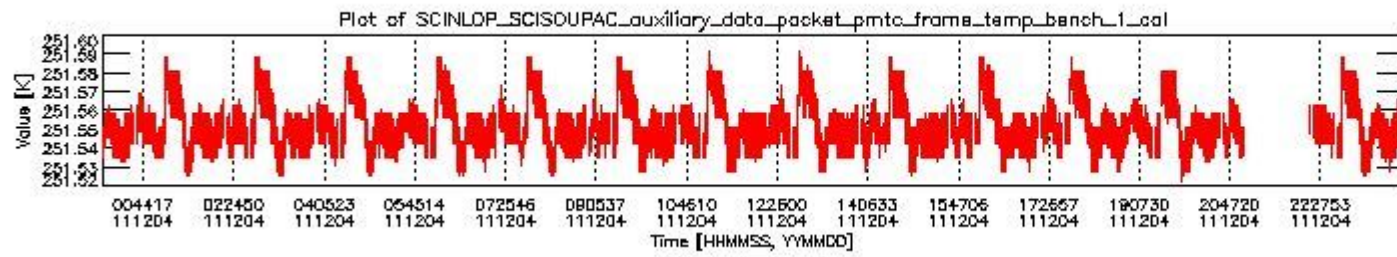
### 0.1.2 Summary per product

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

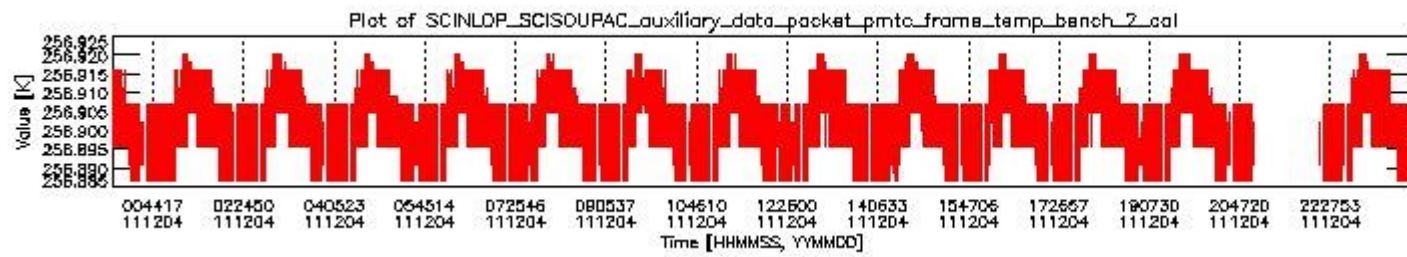
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20111204_003200_000058633109_00174_51050_7692.N1	04DEC2011 00:32:00	04DEC2011 02:09:43	0	0	0	0	0
1	SCI_NL__OPNPDE20111204_020834_000045523109_00175_51051_7693.N1	04DEC2011 02:08:34	04DEC2011 03:24:26	0	0	0	0	0
2	SCI_NL__OPNPDE20111204_032426_000060683109_00176_51052_7694.N1	04DEC2011 03:24:26	04DEC2011 05:05:34	0	0	0	0	0
3	SCI_NL__OPNPDE20111204_050534_000060293109_00177_51053_7695.N1	04DEC2011 05:05:34	04DEC2011 06:46:03	0	0	0	0	0
4	SCI_NL__OPNPDK20111204_064454_000041733109_00178_51054_6559.N1	04DEC2011 06:44:54	04DEC2011 07:54:27	0	0	0	0	0
5	SCI_NL__OPNPDK20111204_075319_000059603109_00179_51055_6560.N1	04DEC2011 07:53:19	04DEC2011 09:32:39	0	0	0	0	0
6	SCI_NL__OPNPDK20111204_093145_000061223109_00180_51056_6561.N1	04DEC2011 09:31:45	04DEC2011 11:13:47	0	0	0	0	0
7	SCI_NL__OPNPDK20111204_111253_000060143109_00181_51057_6562.N1	04DEC2011 11:12:53	04DEC2011 12:53:07	0	0	0	0	0
8	SCI_NL__OPNPDK20111204_125213_000059603109_00182_51058_6563.N1	04DEC2011 12:52:13	04DEC2011 14:31:33	0	0	0	0	0
9	SCI_NL__OPNPDK20111204_143038_000057673109_00183_51059_6564.N1	04DEC2011 14:30:38	04DEC2011 16:06:45	0	0	0	0	0
10	SCI_NL__OPNPDK20111204_160551_000060143109_00184_51060_6565.N1	04DEC2011 16:05:51	04DEC2011 17:46:05	0	0	0	0	0
11	SCI_NL__OPNPDK20111204_174511_000057103109_00185_51061_6566.N1	04DEC2011 17:45:11	04DEC2011 19:20:21	0	0	0	0	0
12	SCI_NL__OPNPDK20111204_192021_000060543109_00186_51062_6567.N1	04DEC2011 19:20:21	04DEC2011 21:01:15	0	0	0	0	0
13	SCI_NL__OPNPDE20111204_221449_000060283109_00187_51063_7697.N1	04DEC2011 22:14:49	04DEC2011 23:55:17	0	0	0	0	0
14	SCI_NL__OPNPDE20111204_235409_000060683109_00188_51064_7698.N1	04DEC2011 23:54:09	05DEC2011 01:35:17	0	0	0	0	0

## 0.2 Product Quality Indicators

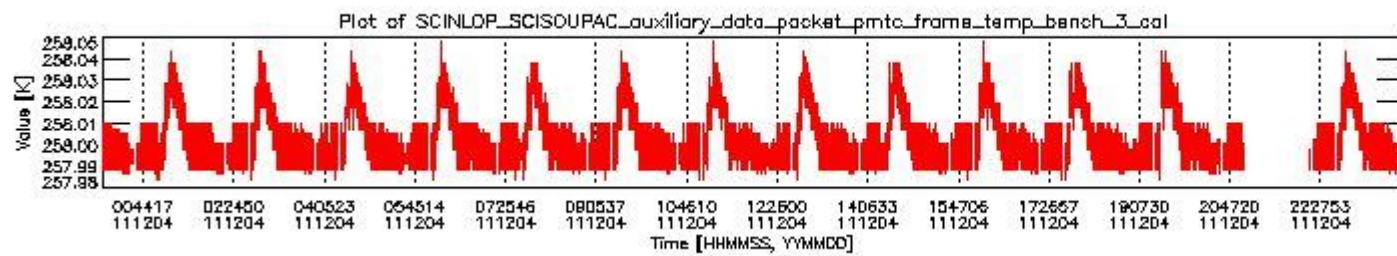
This section shows information about product quality, currently temperatures.



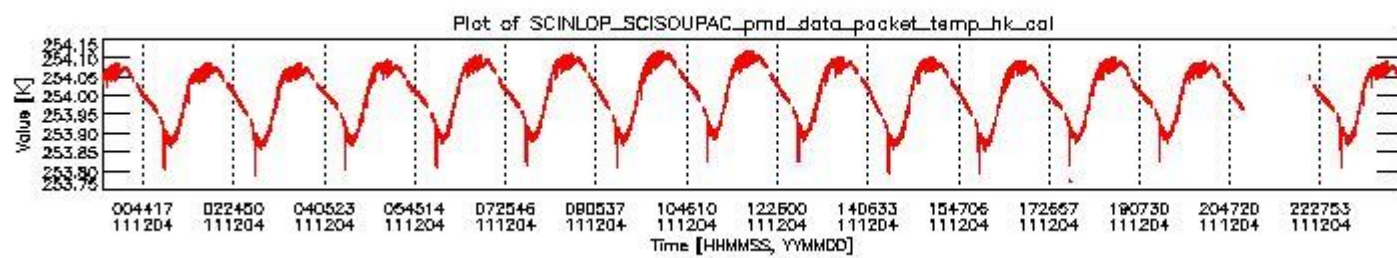
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111204\_0.PNG



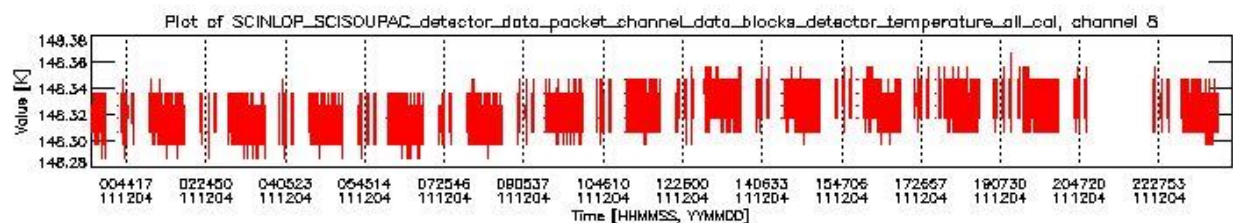
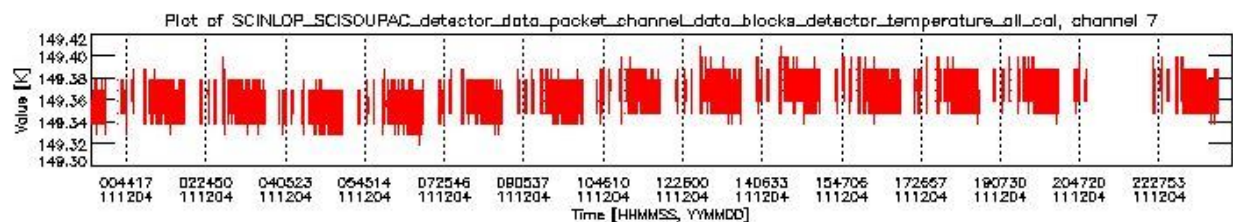
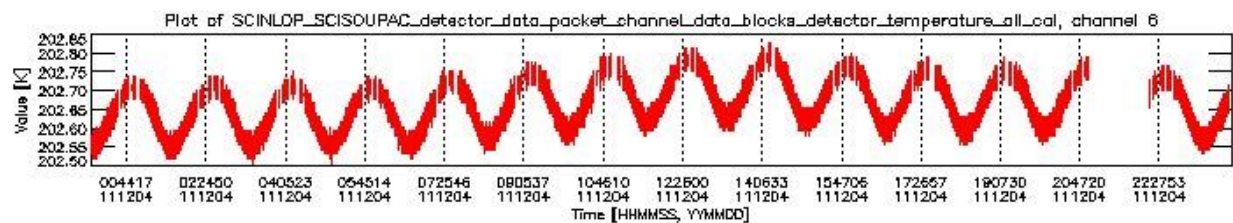
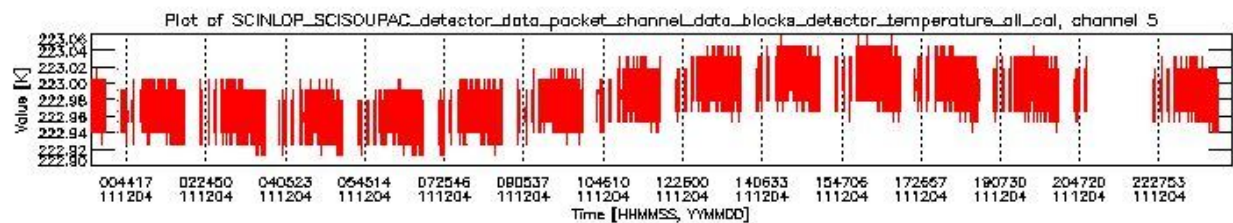
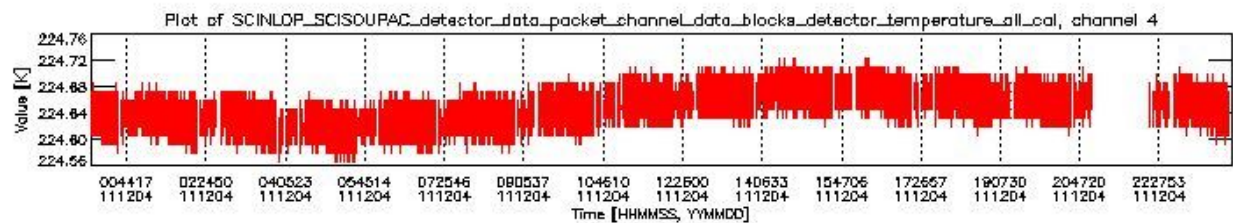
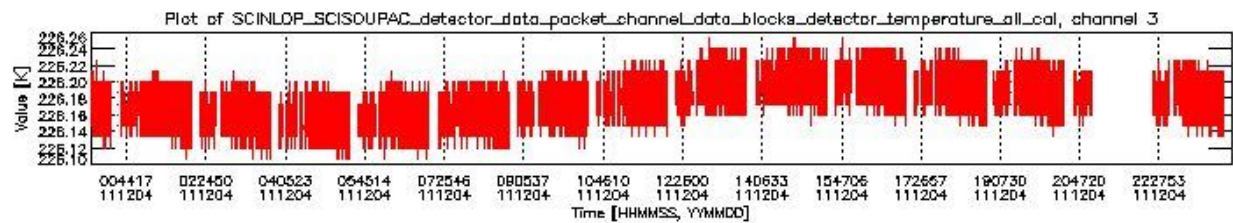
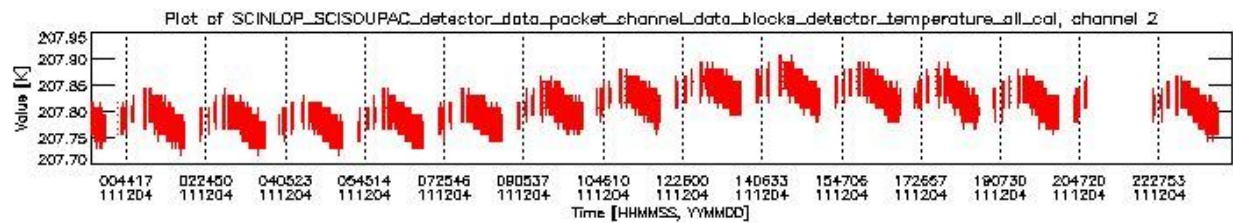
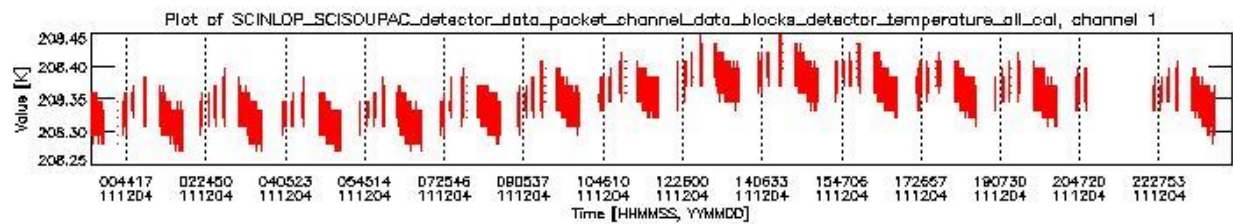
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sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111204\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111204\_3.PNG

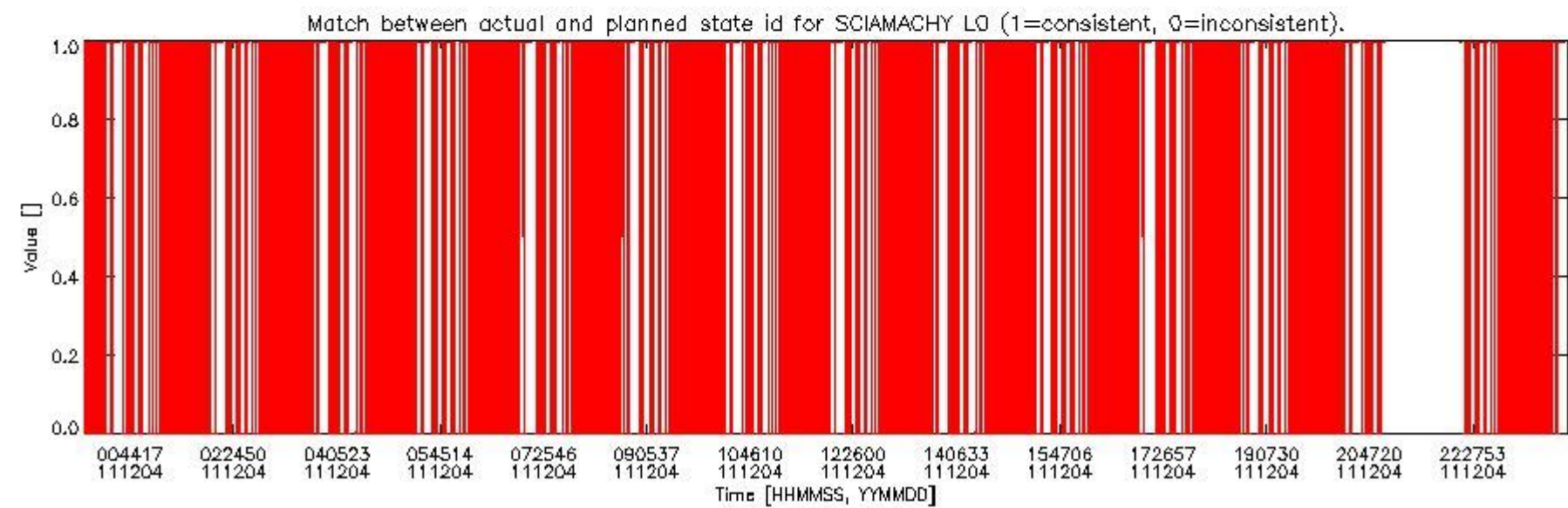
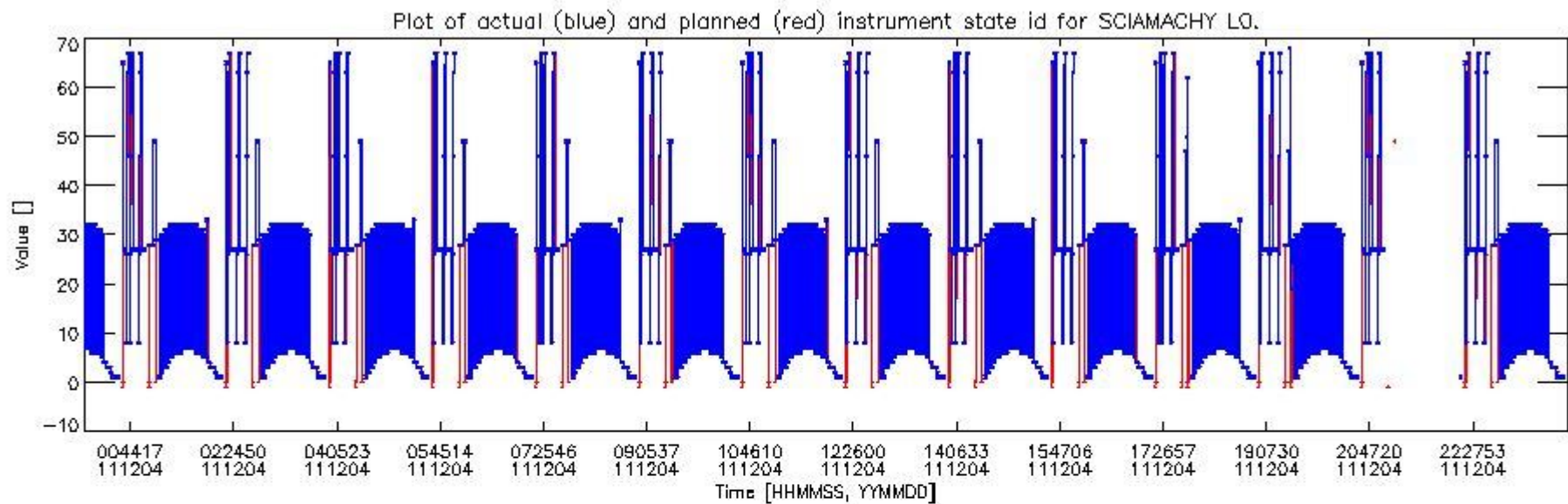


### 0.3 State monitoring

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: **44821**

#	Actual time	Actual value	Planned time	Planned value
0	04DEC2011 00:00:00.232569	7	04DEC2011 00:00:00.232569	32
1	04DEC2011 00:00:00.482569	7	04DEC2011 00:00:00.482569	32
2	04DEC2011 00:00:00.732569	7	04DEC2011 00:00:00.732569	32
3	04DEC2011 00:00:00.982569	7	04DEC2011 00:00:00.982569	32
4	04DEC2011 00:00:01.232569	7	04DEC2011 00:00:01.232569	32
5	04DEC2011 00:00:01.482569	7	04DEC2011 00:00:01.482569	32
6	04DEC2011 00:00:01.732569	7	04DEC2011 00:00:01.732569	32
7	04DEC2011 00:00:01.982569	7	04DEC2011 00:00:01.982569	32
8	04DEC2011 00:00:02.232569	7	04DEC2011 00:00:02.232569	32
9	04DEC2011 00:00:02.482569	7	04DEC2011 00:00:02.482569	32
10	04DEC2011 00:00:02.732569	7	04DEC2011 00:00:02.732569	32
11	04DEC2011 00:00:02.982569	7	04DEC2011 00:00:02.982569	32
12	04DEC2011 00:00:03.107569	7	04DEC2011 00:00:03.107569	32
13	04DEC2011 00:00:03.232569	7	04DEC2011 00:00:03.232569	32
14	04DEC2011 00:00:03.482569	7	04DEC2011 00:00:03.482569	32
15	04DEC2011 00:01:01.666171	32	04DEC2011 00:01:01.666171	7
16	04DEC2011 00:01:02.291171	32	04DEC2011 00:01:02.291171	7
17	04DEC2011 00:01:02.666171	32	04DEC2011 00:01:02.666171	7
18	04DEC2011 00:01:03.041171	32	04DEC2011 00:01:03.041171	7
19	04DEC2011 00:01:03.603671	32	04DEC2011 00:01:03.603671	7
	...	...	...	...

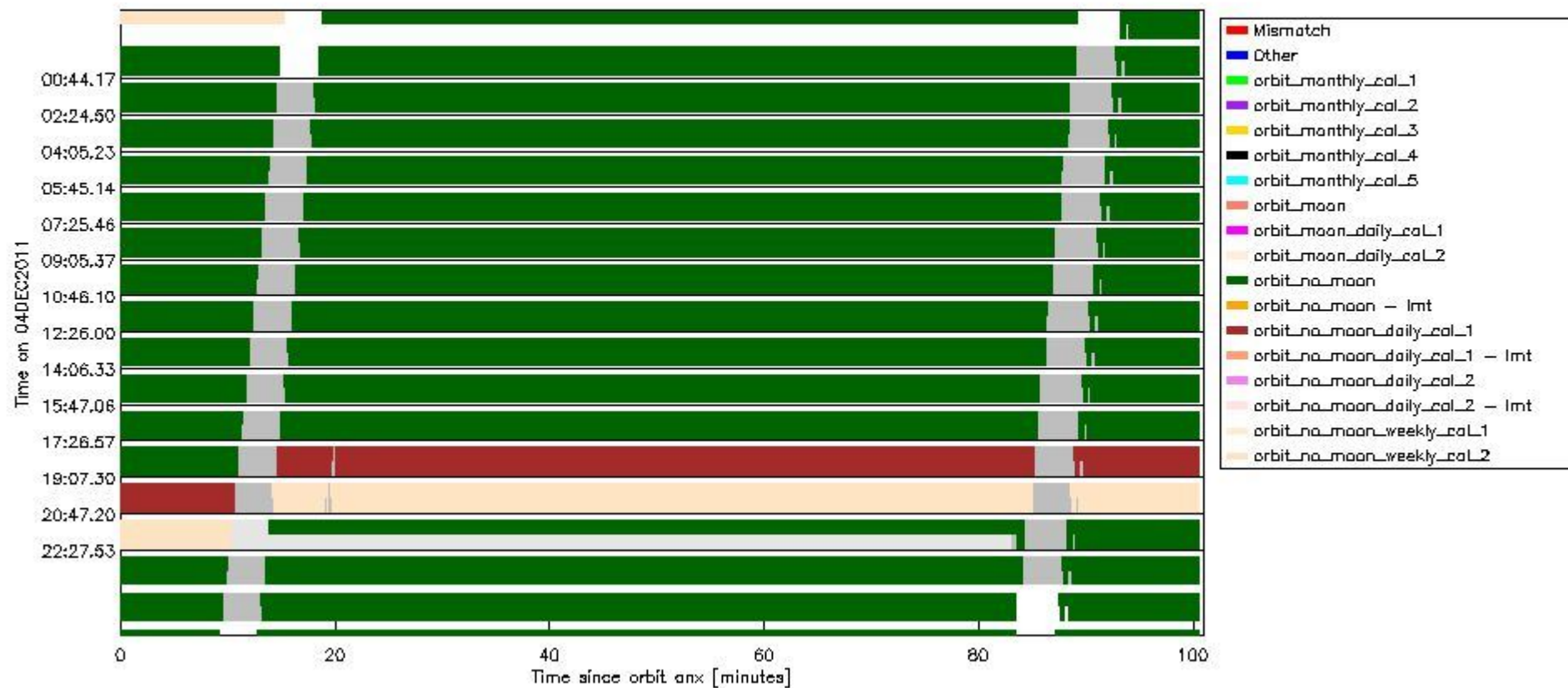


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111204\_5.PNG

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 04DEC2011.  
 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\_20111204\_6.PNG

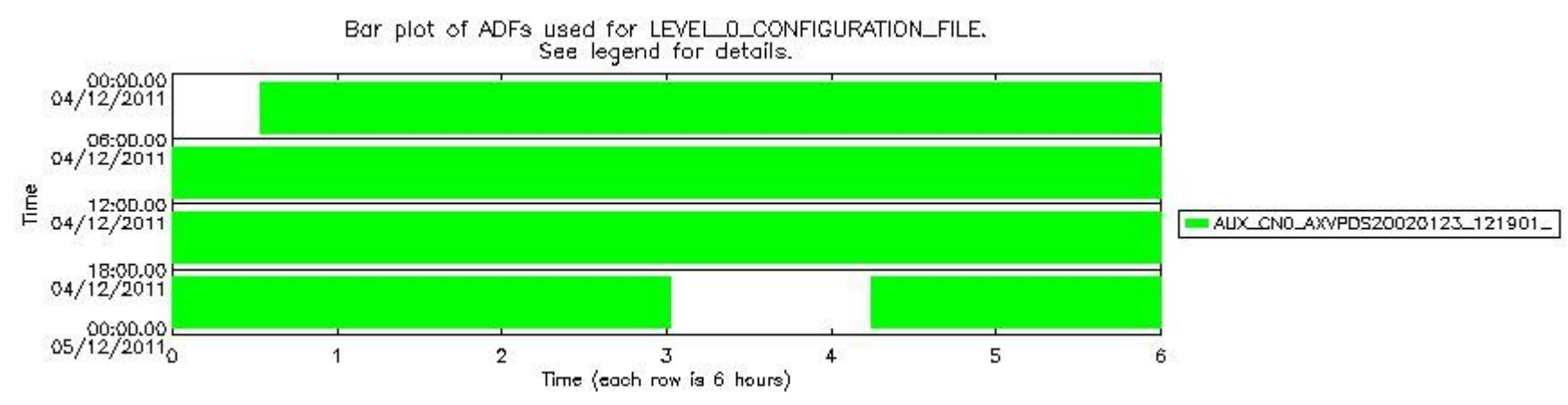
## 0.4 ADF monitoring

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

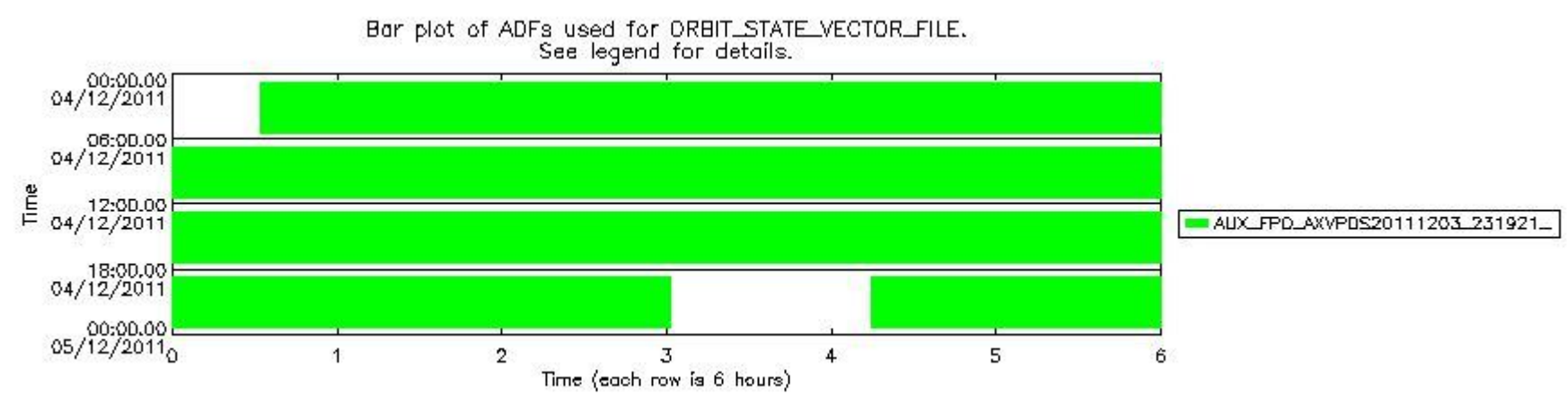
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

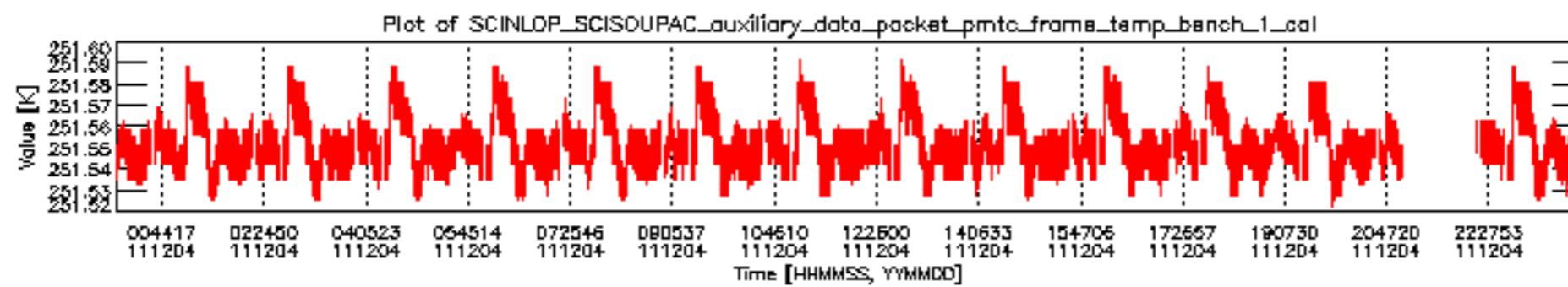
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20111203_231921_20111203_194359_20111213_201726



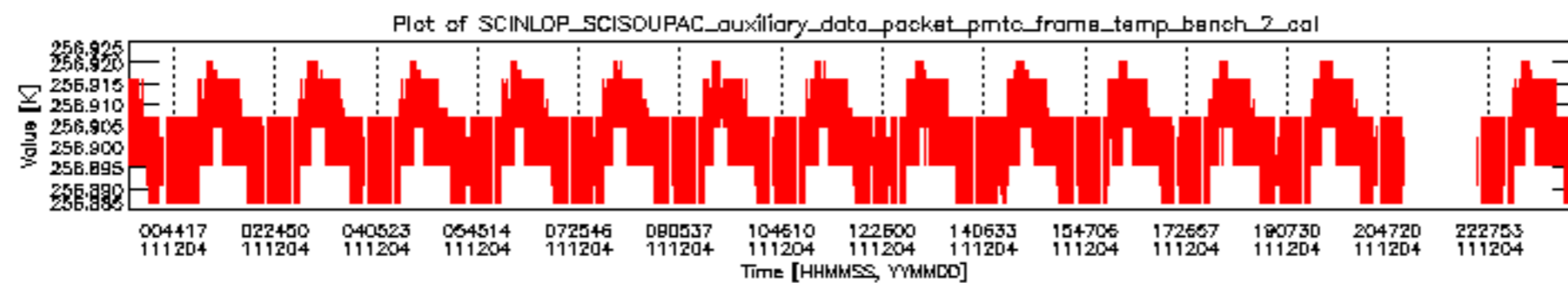
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111204\_7.PNG

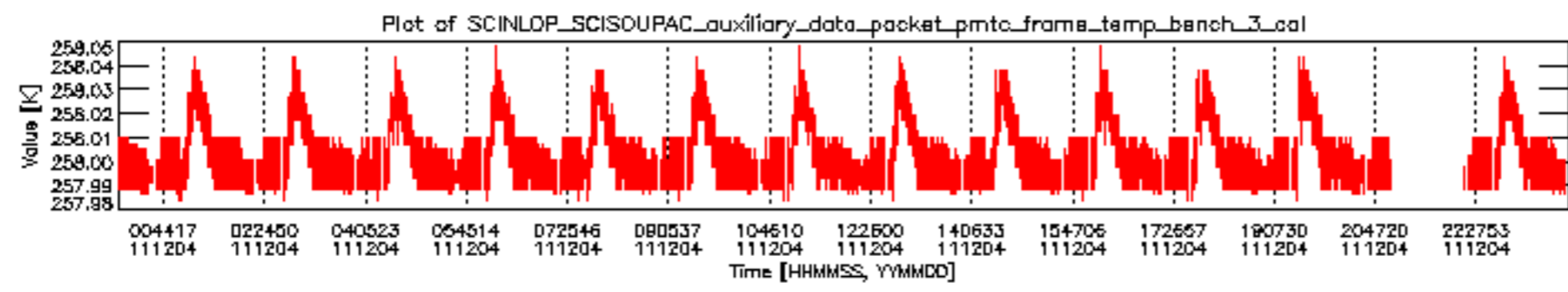


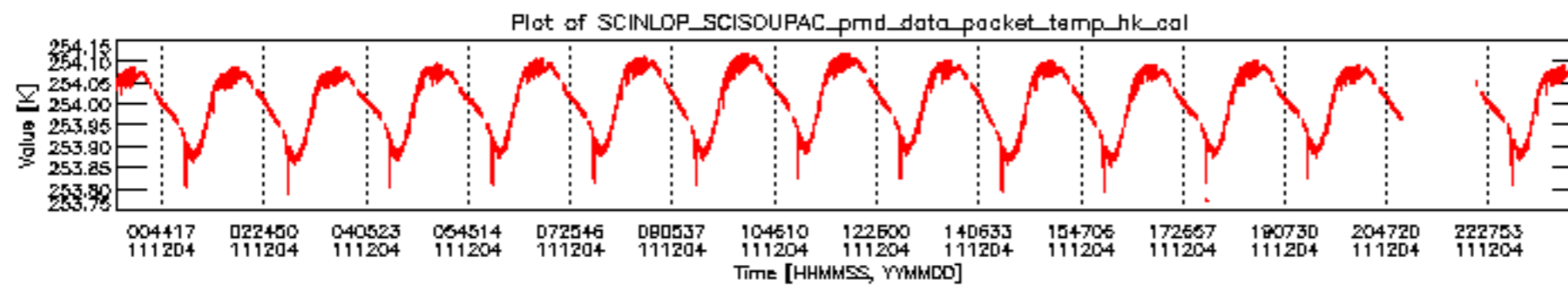
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111204\_8.PNG

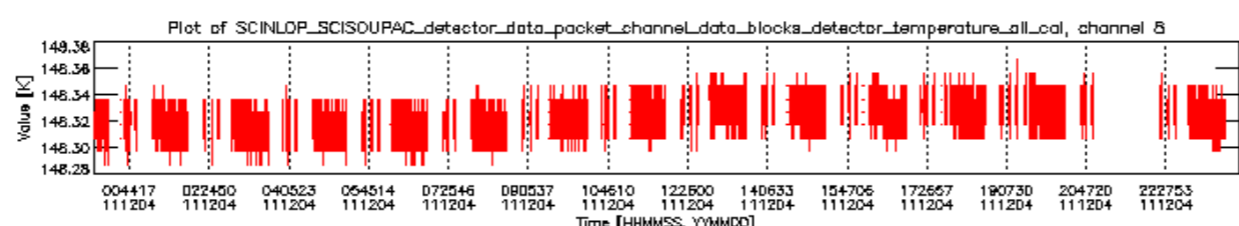
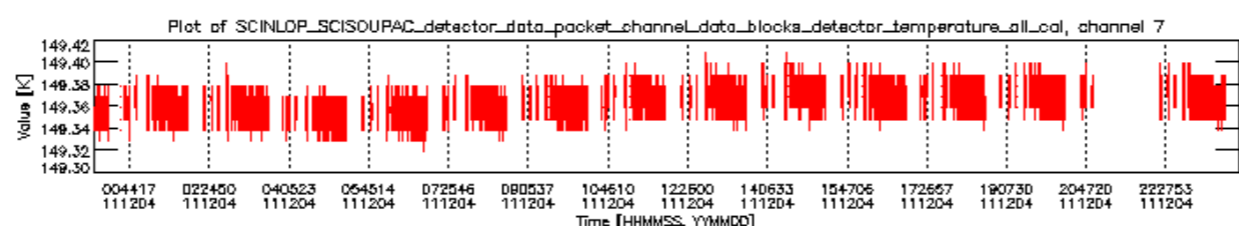
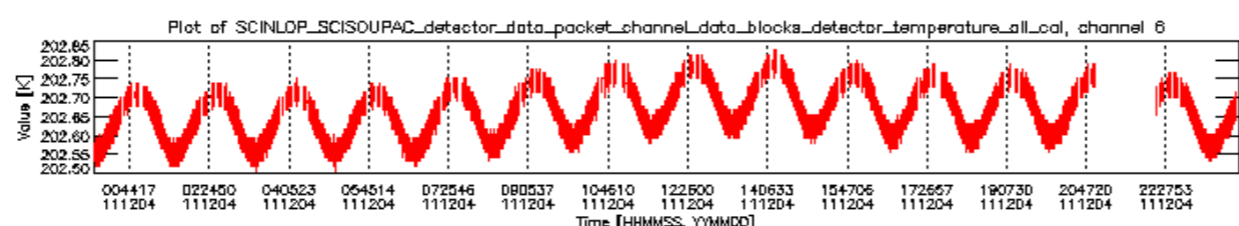
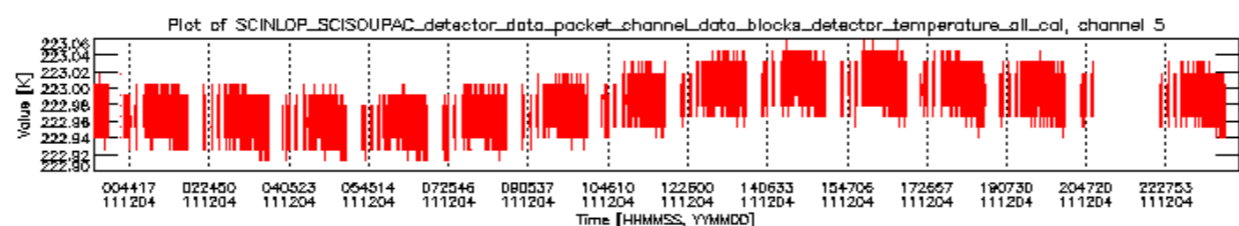
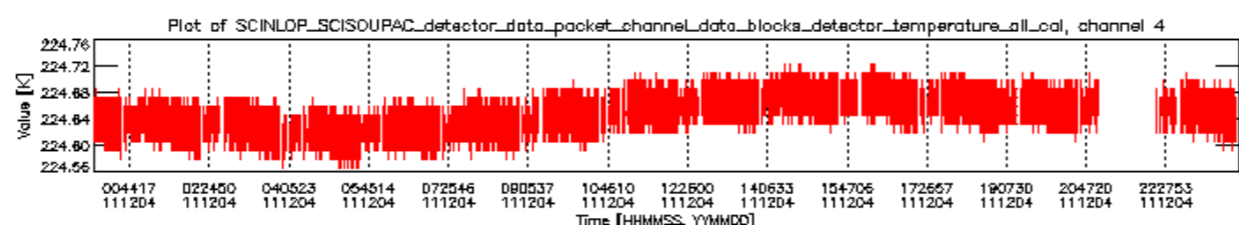
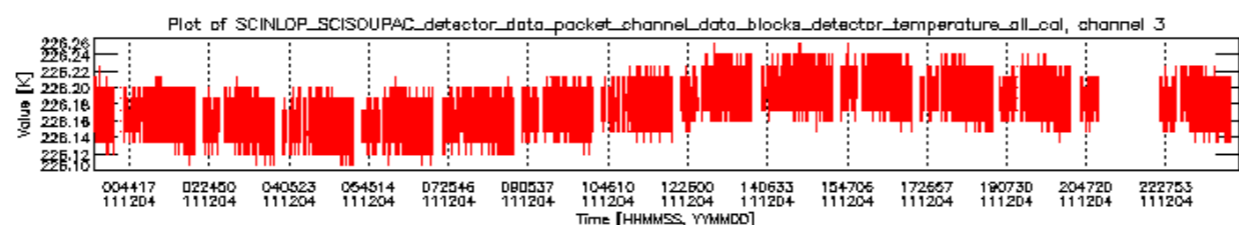
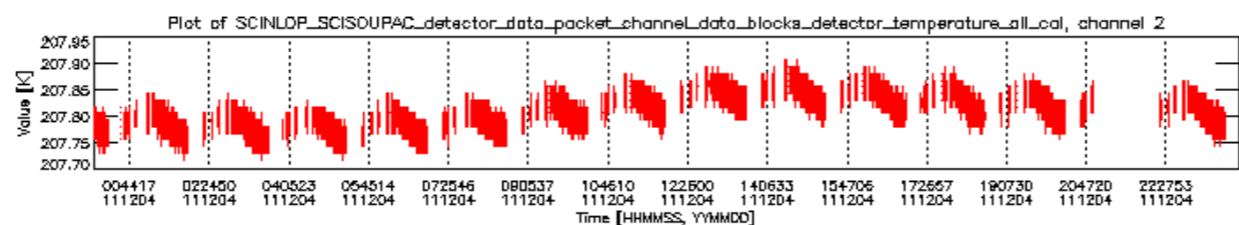
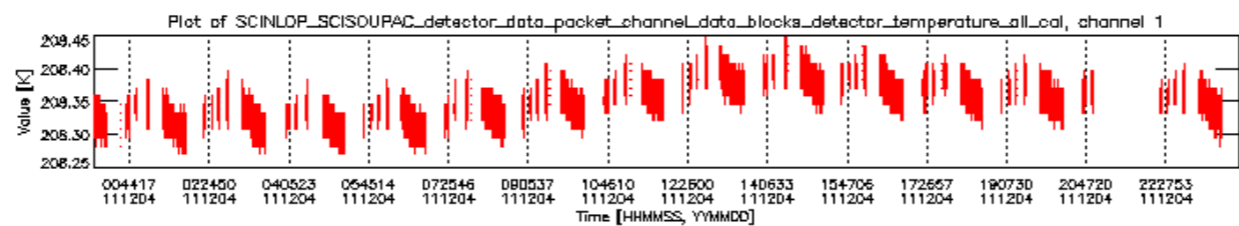


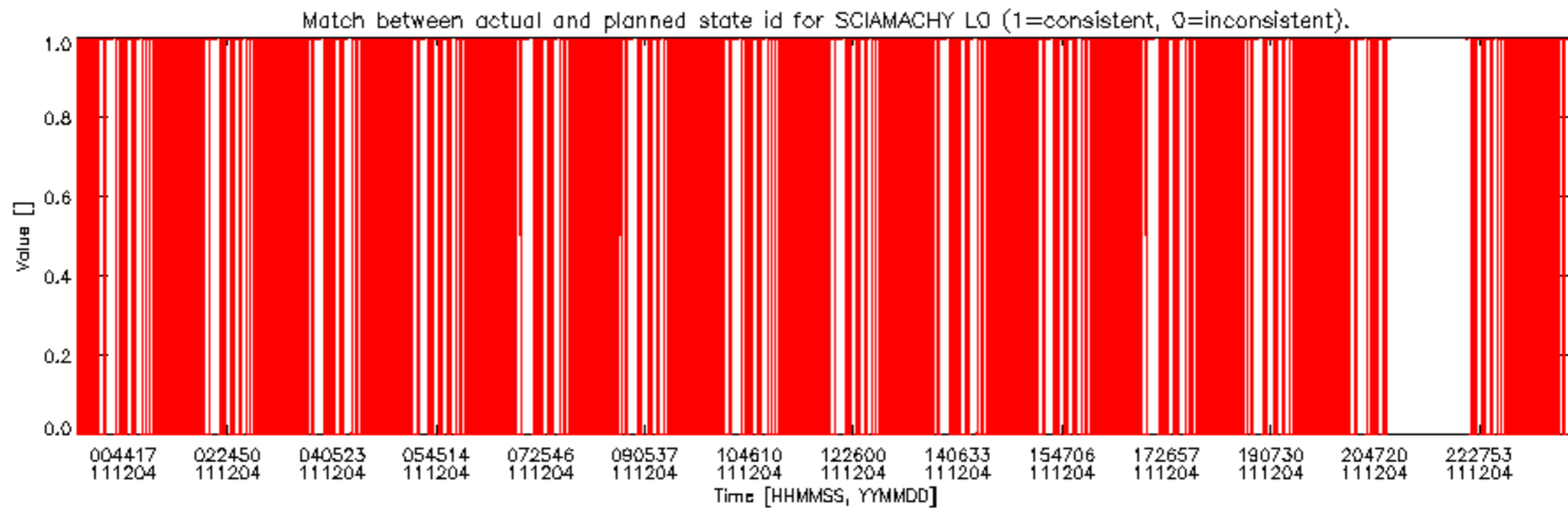
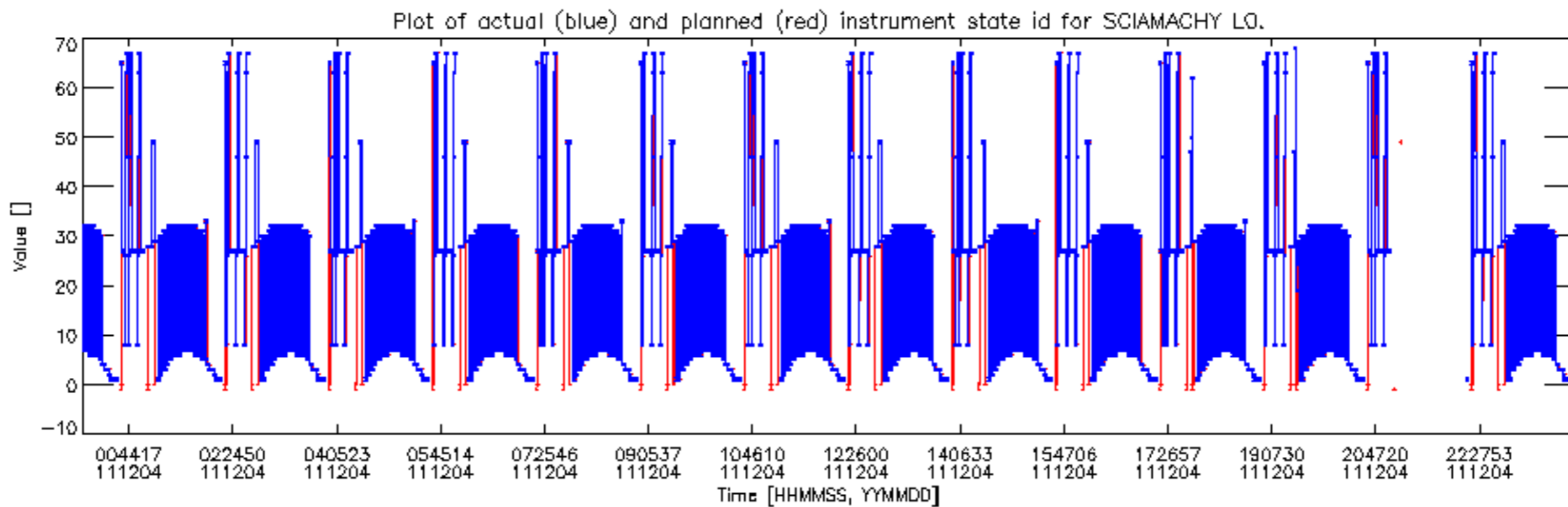












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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