

## 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	03MAY2011 02:58:13
Data source version	KSPT_L0/4504-N
Processing scope for products	26APR2011 00:00:00 to 27APR2011 00:00:00
Start time of first product within scope	26APR2011 01:10:20
Stop time of last product within scope	27APR2011 00:33:30
Total number of Level 0 products	13
Number of Level 0 products with errors	0

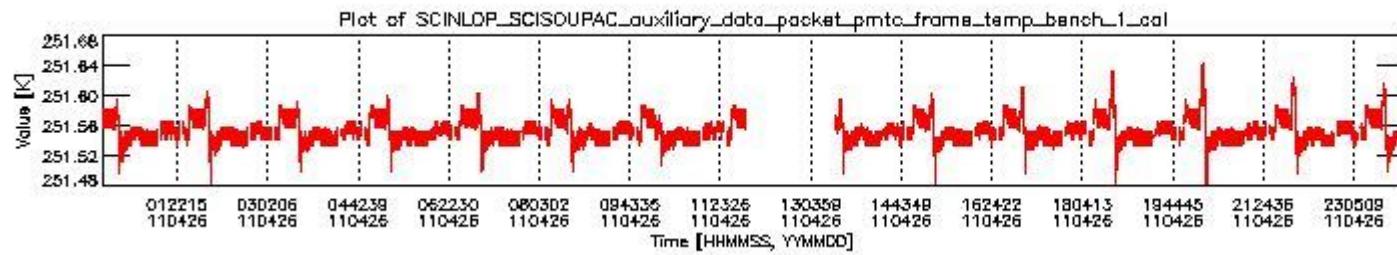
### 0.1.2 Summary per product

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

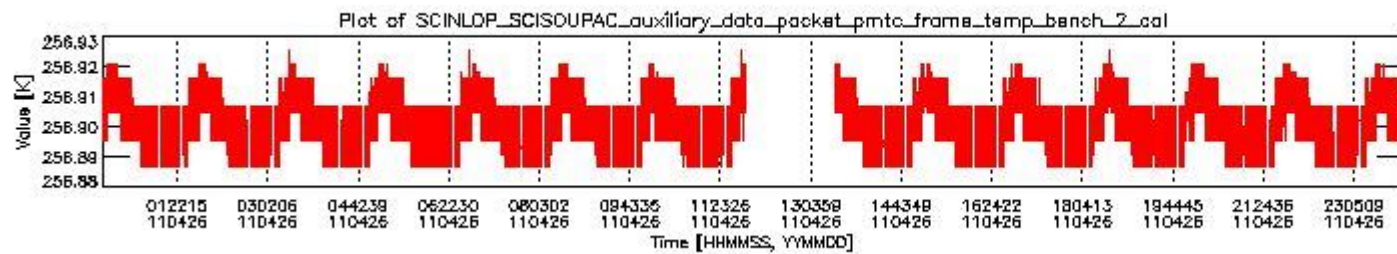
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110426_011020_000101843102_00002_47861_3005.N1	26APR2011 01:10:20	26APR2011 04:00:03	0	0	0	0	0
1	SCI_NL__OPNPDE20110426_040003_000062053102_00004_47863_3006.N1	26APR2011 04:00:03	26APR2011 05:43:28	0	0	0	0	0
2	SCI_NL__OPNPDE20110426_054234_000061223102_00005_47864_3007.N1	26APR2011 05:42:34	26APR2011 07:24:36	0	0	0	0	0
3	SCI_NL__OPNPDK20110426_072342_000040503102_00006_47865_4447.N1	26APR2011 07:23:42	26APR2011 08:31:12	0	0	0	0	0
4	SCI_NL__OPNPDK20110426_083018_000061223102_00007_47866_4448.N1	26APR2011 08:30:18	26APR2011 10:12:20	0	0	0	0	0
5	SCI_NL__OPNPDK20110426_101220_000059593102_00008_47867_4449.N1	26APR2011 10:12:20	26APR2011 11:51:39	0	0	0	0	0
6	SCI_NL__OPNPDK20110426_132950_000058373102_00010_47869_4451.N1	26APR2011 13:29:50	26APR2011 15:07:07	0	0	0	0	0
7	SCI_NL__OPNPDK20110426_150558_000058913102_00011_47870_4452.N1	26APR2011 15:05:58	26APR2011 16:44:09	0	0	0	0	0
8	SCI_NL__OPNPDK20110426_164301_000059173102_00012_47871_4453.N1	26APR2011 16:43:01	26APR2011 18:21:37	0	0	0	0	0
9	SCI_NL__OPNPDK20110426_182029_000060683102_00013_47872_4454.N1	26APR2011 18:20:29	26APR2011 20:01:36	0	0	0	0	0
10	SCI_NL__OPNPDE20110426_200042_000040473102_00014_47873_3008.N1	26APR2011 20:00:42	26APR2011 21:08:09	0	0	0	0	0
11	SCI_NL__OPNPDE20110426_210722_000063873102_00014_47873_3009.N1	26APR2011 21:07:22	26APR2011 22:53:49	0	0	0	0	0
12	SCI_NL__OPNPDE20110426_225232_000060583102_00015_47874_3010.N1	26APR2011 22:52:32	27APR2011 00:33:30	0	0	0	0	0

## 0.2 Product Quality Indicators

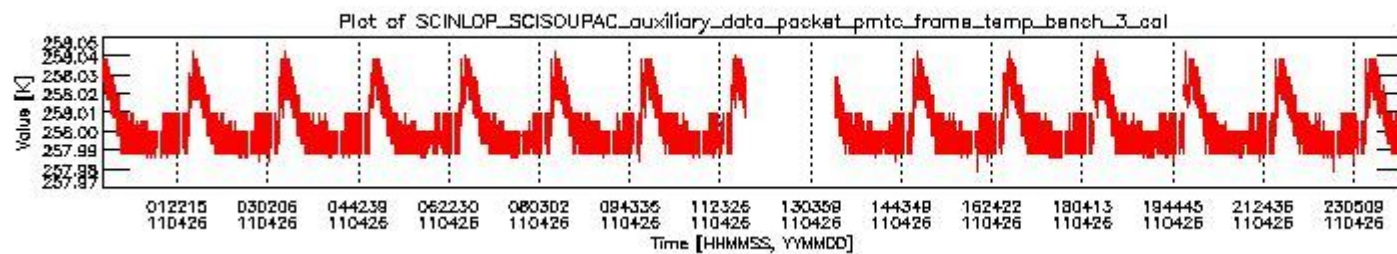
This section shows information about product quality, currently temperatures.



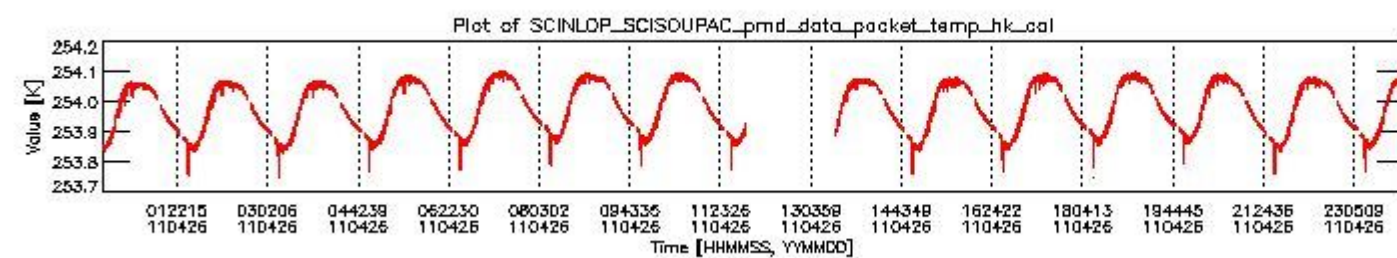
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110426\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110426\_1.PNG

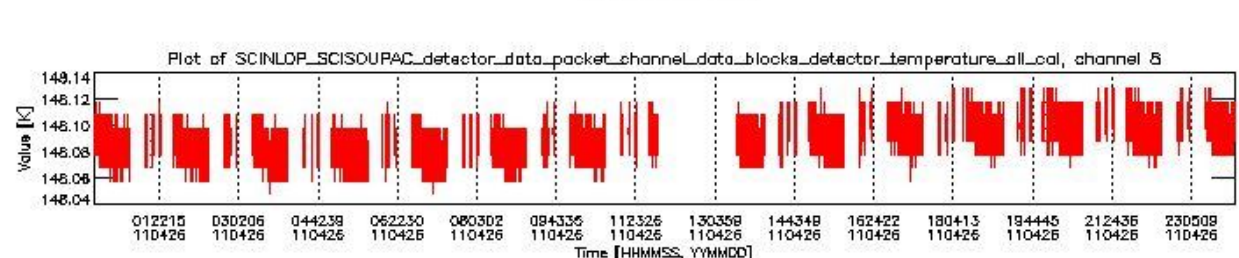
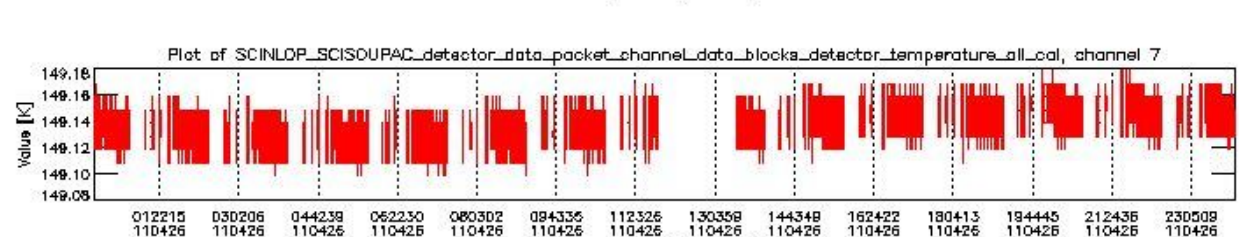
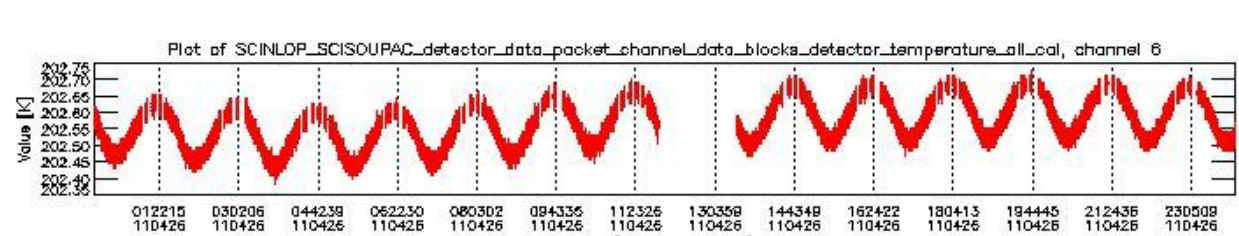
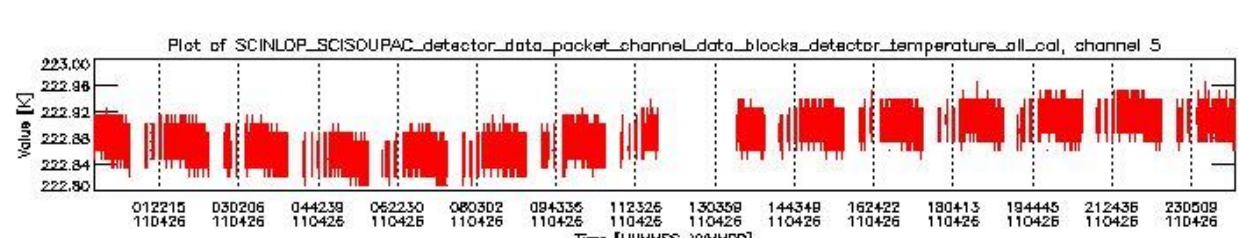
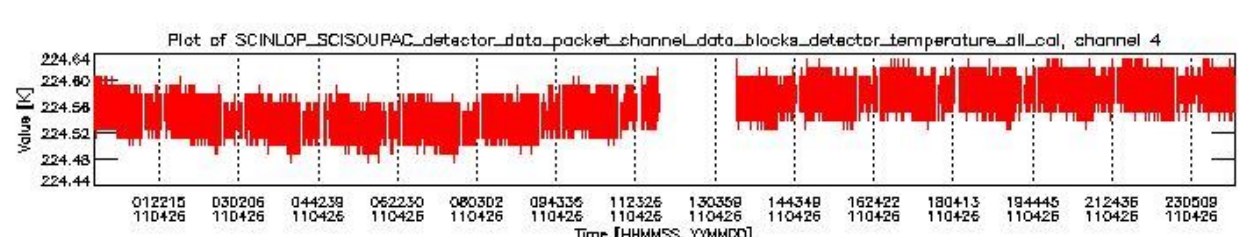
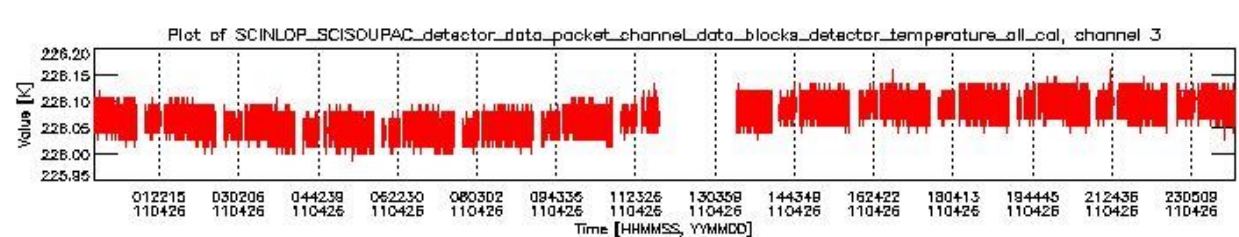
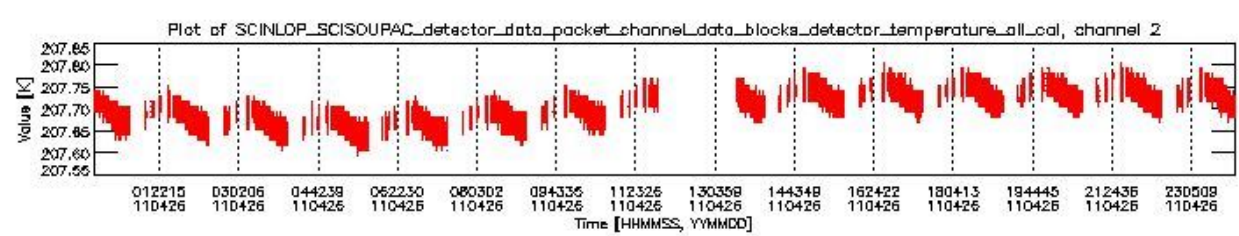
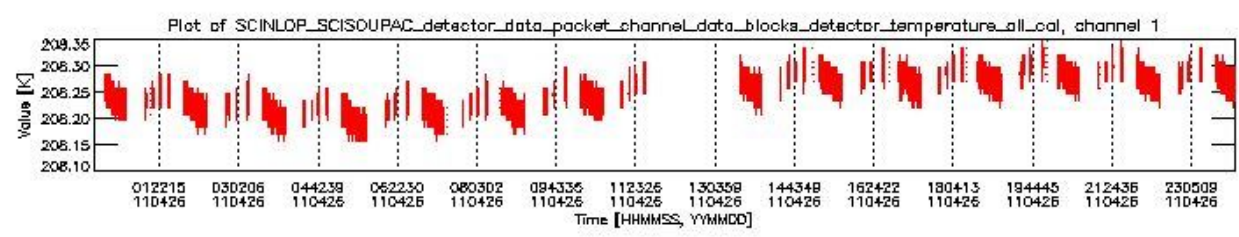


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110426\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110426\_3.PNG



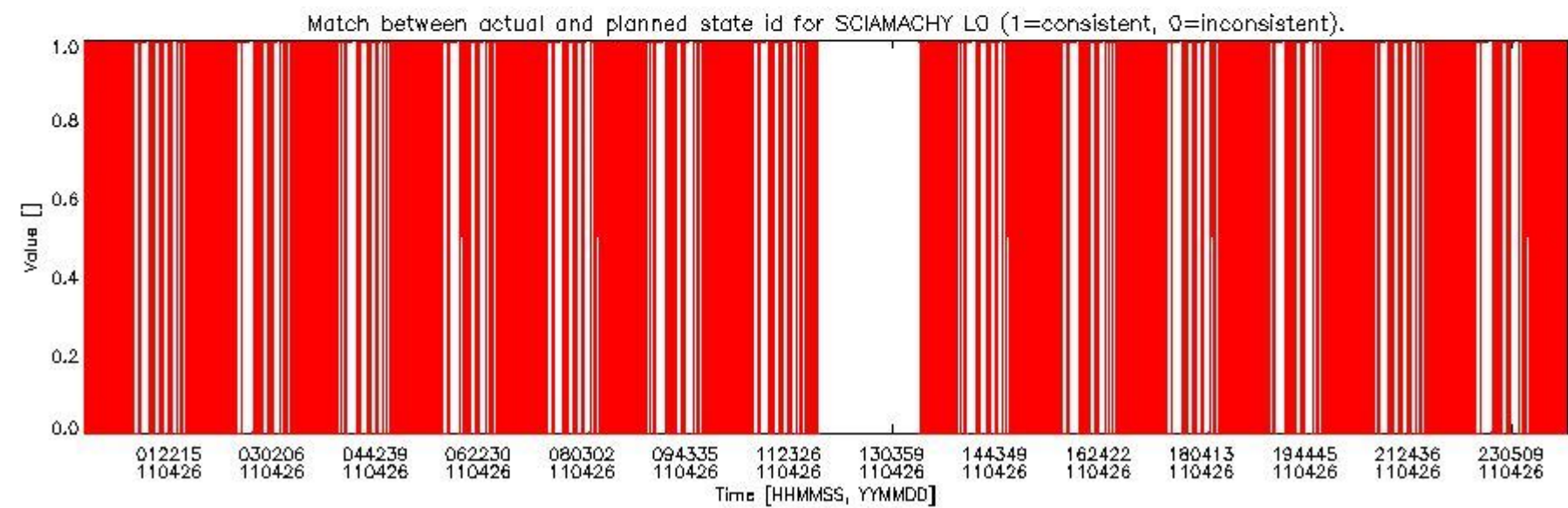
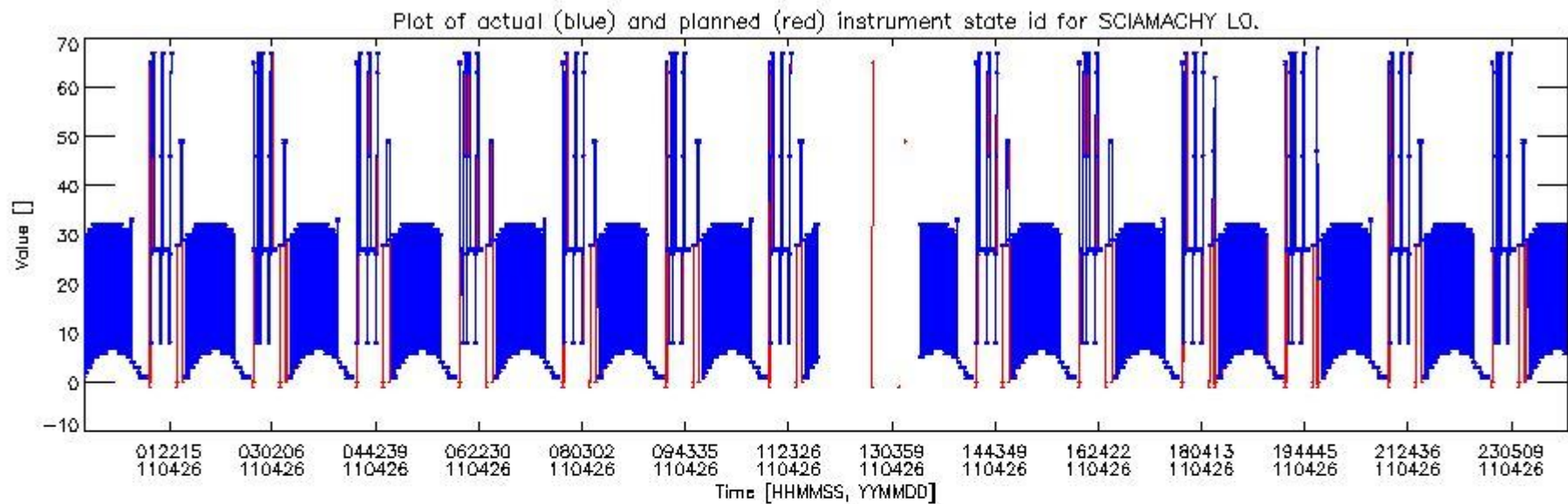


### 0.3 State monitoring

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: **62709**

#	Actual time	Actual value	Planned time	Planned value
0	26APR2011 00:00:00.229439	30	26APR2011 00:00:00.229439	1
1	26APR2011 00:00:00.416939	30	26APR2011 00:00:00.416939	1
2	26APR2011 00:00:00.791939	30	26APR2011 00:00:00.791939	1
3	26APR2011 00:00:01.166939	30	26APR2011 00:00:01.166939	1
4	26APR2011 00:00:01.541939	30	26APR2011 00:00:01.541939	1
5	26APR2011 00:00:01.916939	30	26APR2011 00:00:01.916939	1
6	26APR2011 00:00:02.479439	30	26APR2011 00:00:02.479439	1
7	26APR2011 00:00:02.854439	30	26APR2011 00:00:02.854439	1
8	26APR2011 00:00:03.229439	30	26APR2011 00:00:03.229439	1
9	26APR2011 00:00:03.604439	30	26APR2011 00:00:03.604439	1
10	26APR2011 00:00:04.166939	30	26APR2011 00:00:04.166939	1
11	26APR2011 00:00:04.541939	30	26APR2011 00:00:04.541939	1
12	26APR2011 00:00:04.916939	30	26APR2011 00:00:04.916939	1
13	26APR2011 00:00:44.600539	2	26APR2011 00:00:44.600539	30
14	26APR2011 00:00:44.850539	2	26APR2011 00:00:44.850539	30
15	26APR2011 00:00:44.975539	2	26APR2011 00:00:44.975539	30
16	26APR2011 00:00:45.100539	2	26APR2011 00:00:45.100539	30
17	26APR2011 00:00:45.225539	2	26APR2011 00:00:45.225539	30
18	26APR2011 00:00:45.350539	2	26APR2011 00:00:45.350539	30
19	26APR2011 00:00:45.475539	2	26APR2011 00:00:45.475539	30
	...	...	...	...



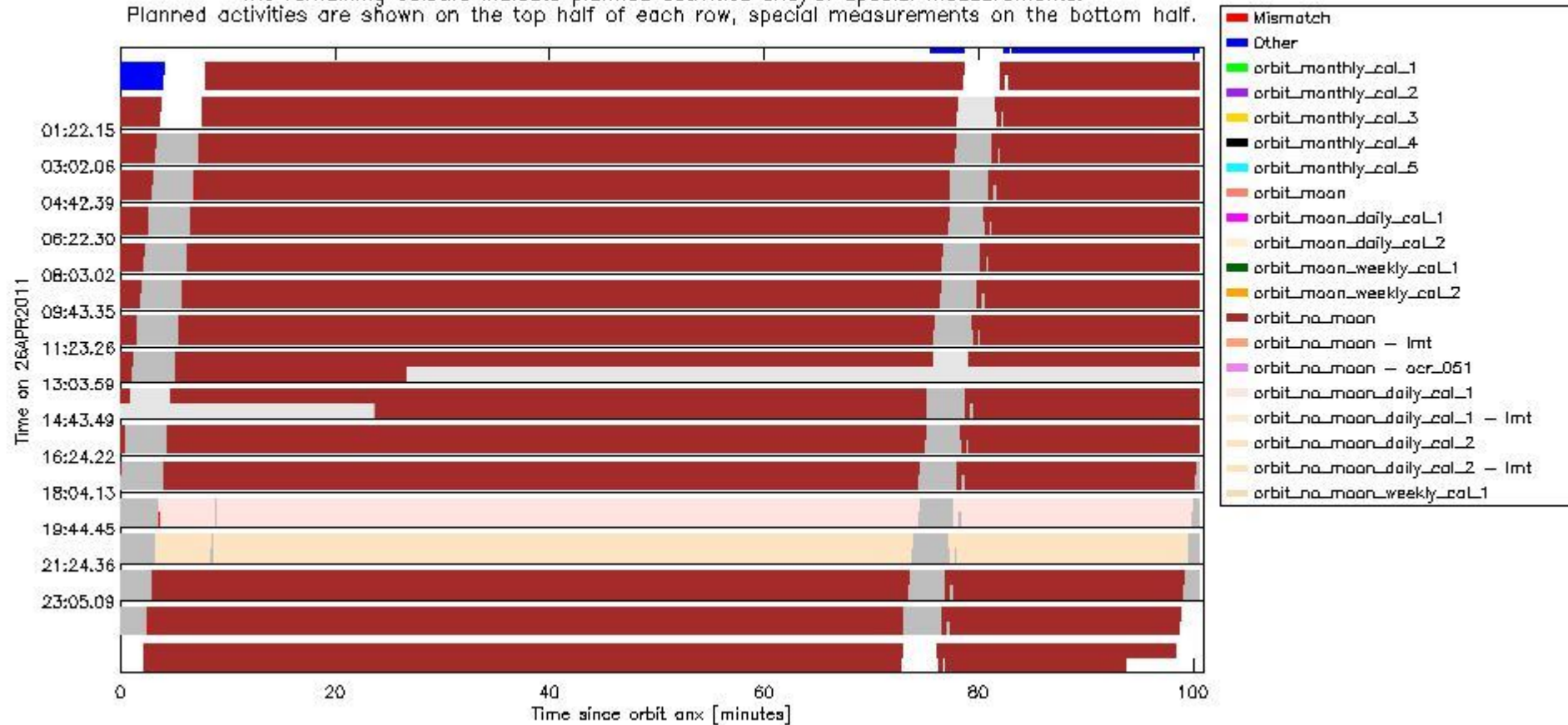
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110426\_5.PNG

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 26APR2011.  
 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\_20110426\_6.PNG

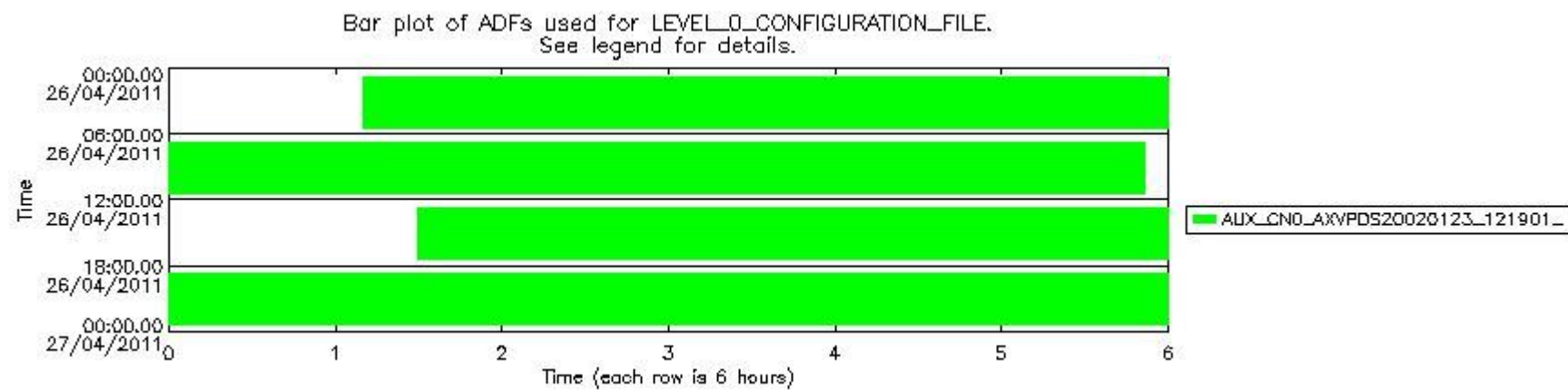
## 0.4 ADF monitoring

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

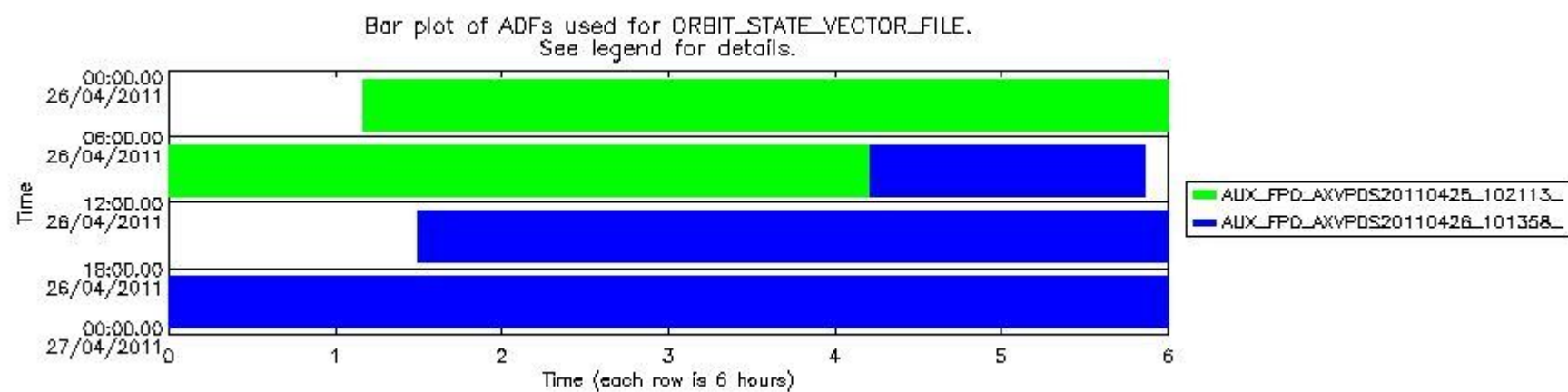
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

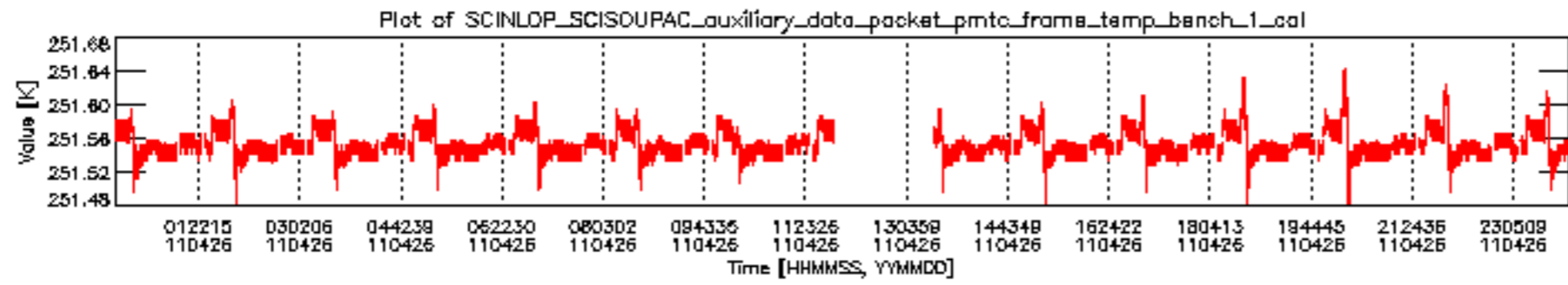
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20110425_102113_20110424_191754_20110504_213142</b>
2	<b>AUX_FPO_AXVPDS20110426_101358_20110425_184110_20110505_205458</b>



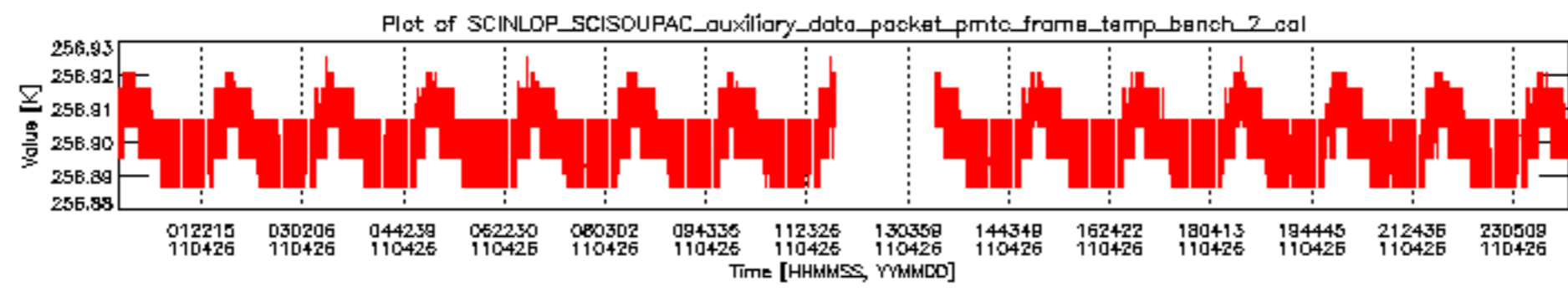
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110426\_7.PNG

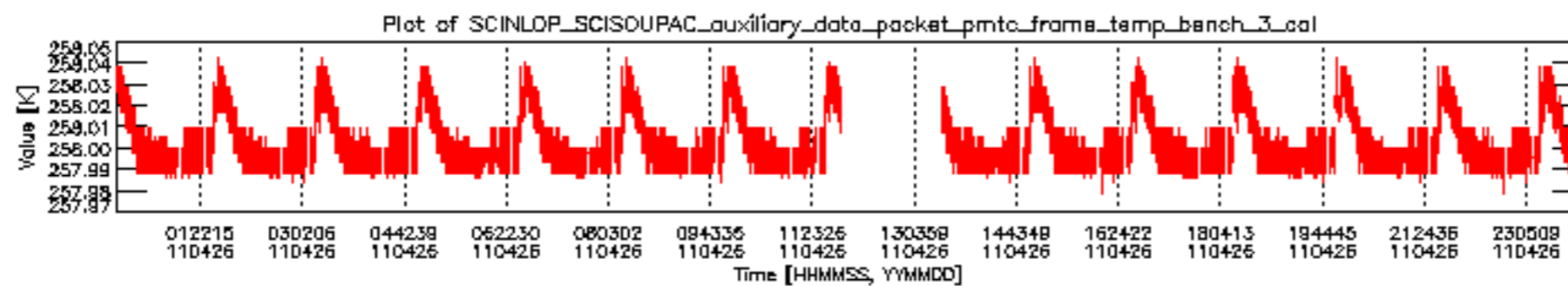


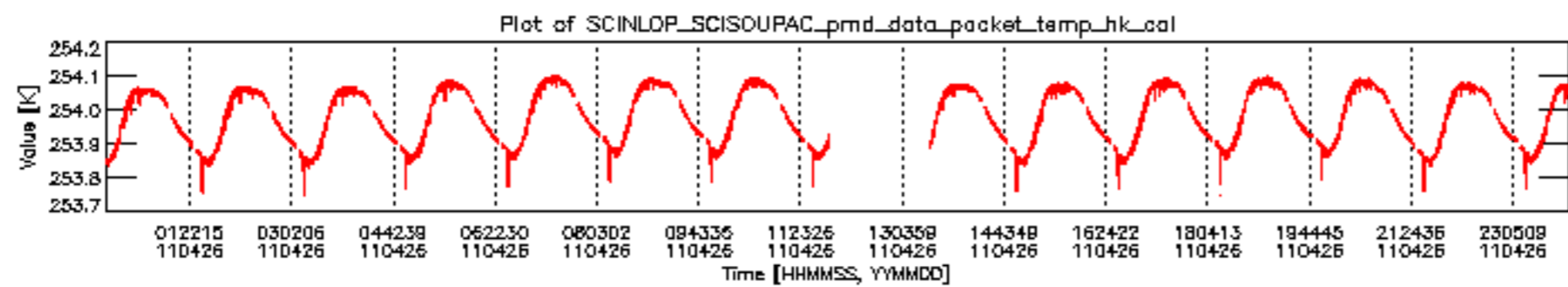
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110426\_8.PNG

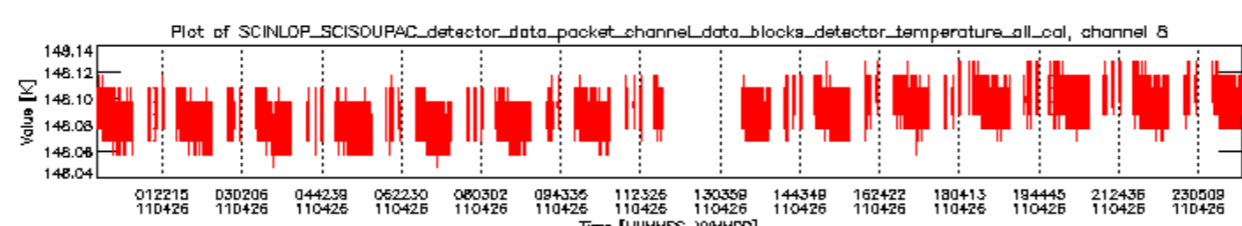
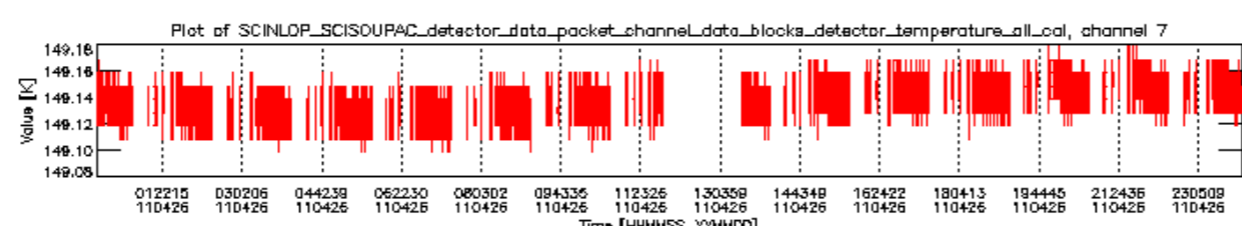
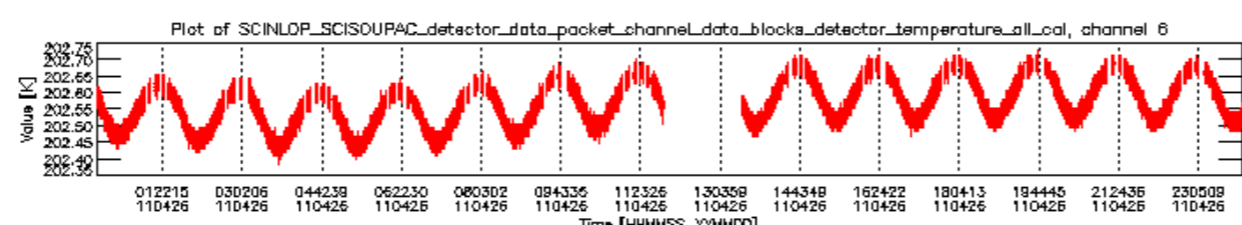
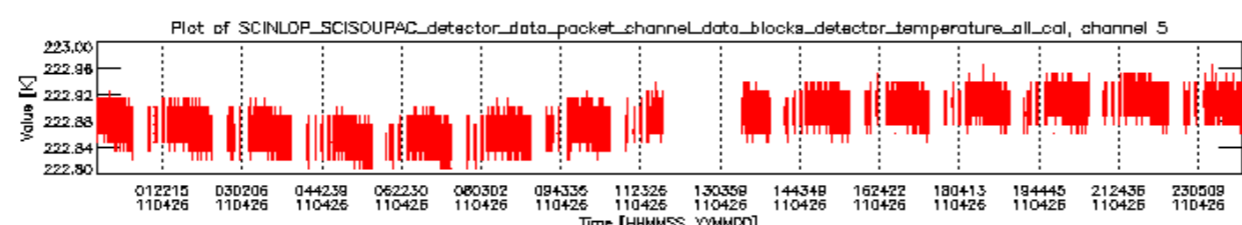
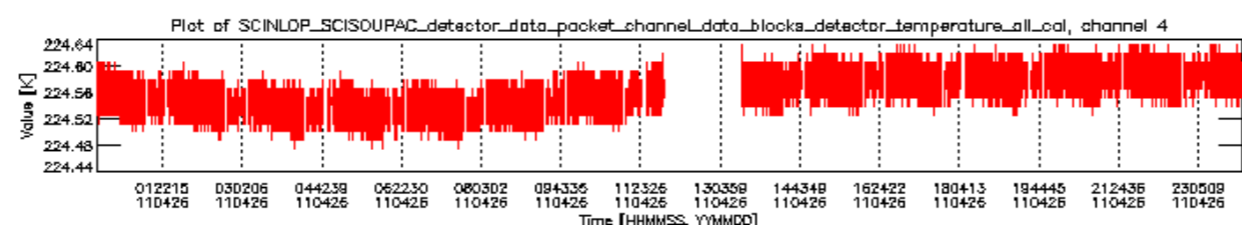
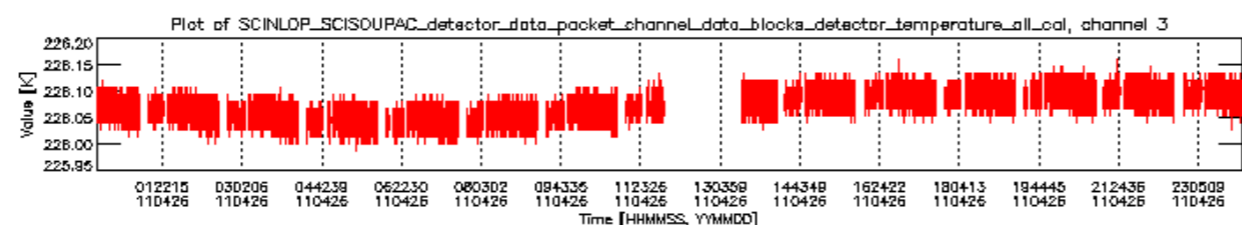
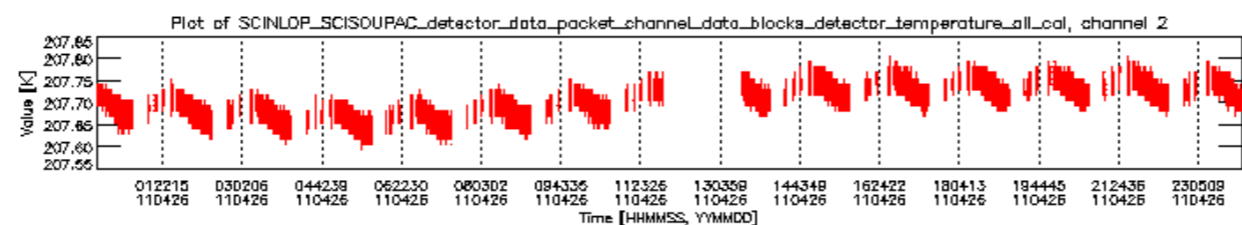
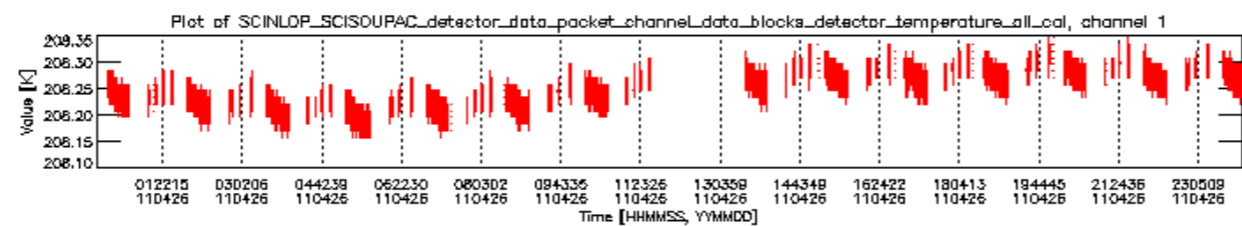




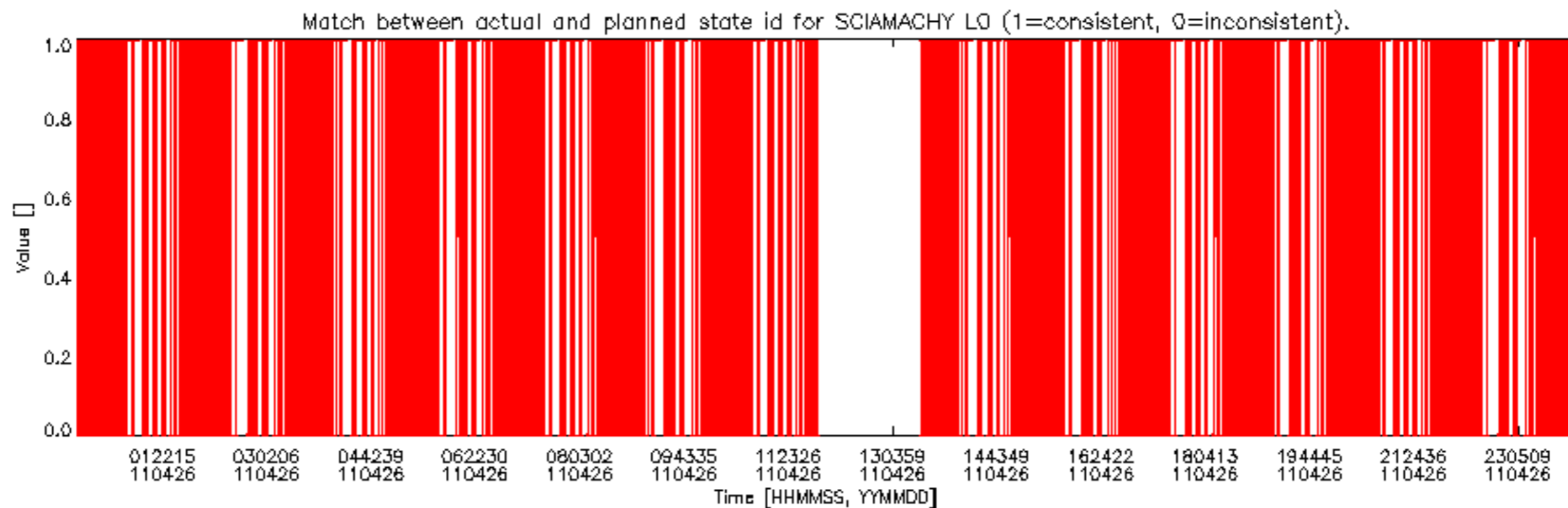
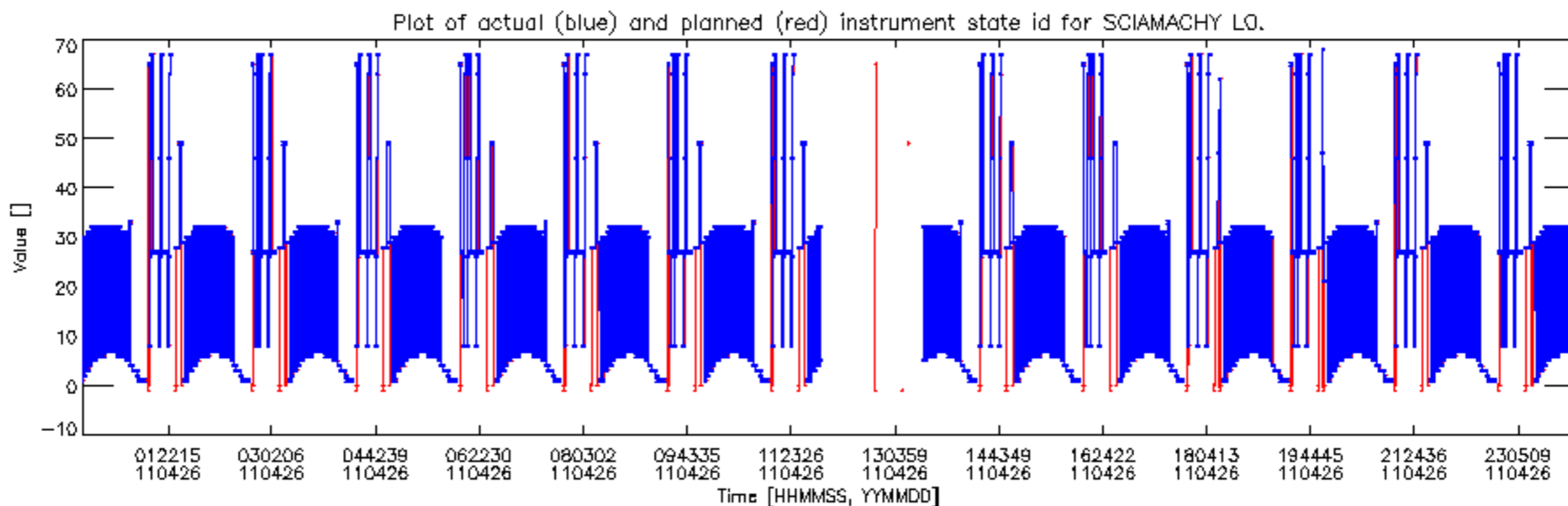












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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