

## 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	08MAR2011 03:01:20
Data source version	KSPT_L0/4504-N
Processing scope for products	01MAR2011 00:00:00 to 02MAR2011 00:00:00
Start time of first product within scope	01MAR2011 00:23:23
Stop time of last product within scope	02MAR2011 01:26:01
Total number of Level 0 products	16
Number of Level 0 products with errors	1

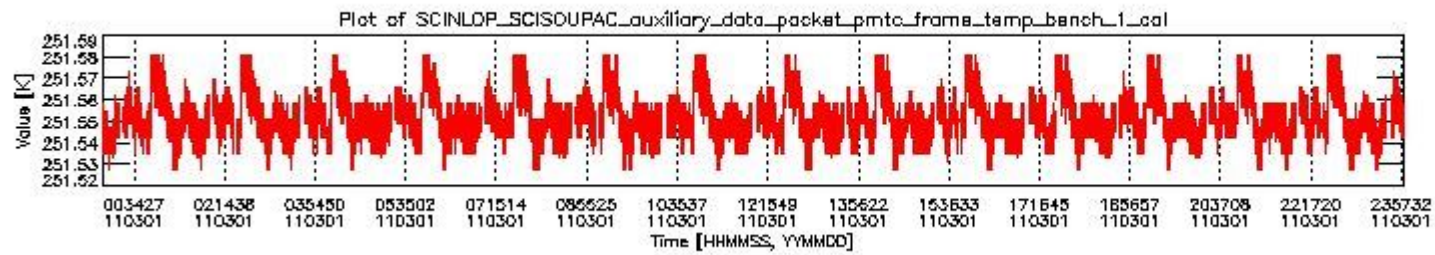
### 0.1.2 Summary per product

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

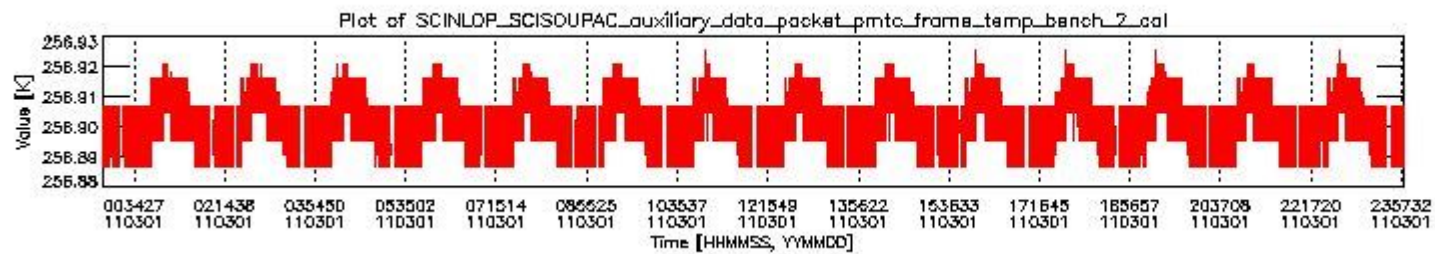
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110301_002323_000055813100_00059_47056_2651.N1	01MAR2011 00:23:23	01MAR2011 01:56:25	0	0	0	0	0
1	SCI_NL__OPNPDE20110301_020253_000042713100_00060_47057_5699.N1	01MAR2011 02:02:53	01MAR2011 03:14:05	0	0	0	0	0
2	SCI_NL__OPNPDE20110301_031405_000060683100_00061_47058_2653.N1	01MAR2011 03:14:05	01MAR2011 04:55:12	0	0	0	0	0
3	SCI_NL__OPNPDE20110301_045512_000060823100_00062_47059_2654.N1	01MAR2011 04:55:12	01MAR2011 06:36:35	0	0	0	0	0
4	SCI_NL__OPNPDK20110301_063526_000040503100_00063_47060_3963.N1	01MAR2011 06:35:26	01MAR2011 07:42:56	0	0	0	0	0
5	SCI_NL__OPNPDK20110301_074147_000061513100_00064_47061_3964.N1	01MAR2011 07:41:47	01MAR2011 09:24:18	0	0	0	0	0
6	SCI_NL__OPNPDK20110301_092309_000059453100_00065_47062_3965.N1	01MAR2011 09:23:09	01MAR2011 11:02:14	1	1	0	0	0
7	SCI_NL__OPNPDK20110301_110011_000061513100_00066_47063_3966.N1	01MAR2011 11:00:11	01MAR2011 12:42:42	0	0	0	0	0
8	SCI_NL__OPNPDK20110301_124133_000059453100_00067_47064_3967.N1	01MAR2011 12:41:33	01MAR2011 14:20:38	0	0	0	0	0
9	SCI_NL__OPNPDK20110301_141944_000059593100_00068_47065_3968.N1	01MAR2011 14:19:44	01MAR2011 15:59:04	0	0	0	0	0
10	SCI_NL__OPNPDK20110301_155755_000058313100_00069_47066_3969.N1	01MAR2011 15:57:55	01MAR2011 17:35:06	0	0	0	0	0
11	SCI_NL__OPNPDK20110301_173506_000060143100_00070_47067_3970.N1	01MAR2011 17:35:06	01MAR2011 19:15:20	0	0	0	0	0
12	SCI_NL__OPNPDK20110301_191322_000060143100_00071_47068_3971.N1	01MAR2011 19:13:22	01MAR2011 20:53:35	0	0	0	0	0
13	SCI_NL__OPNPDE20110301_205335_000043193100_00072_47069_2655.N1	01MAR2011 20:53:35	01MAR2011 22:05:35	0	0	0	0	0
14	SCI_NL__OPNPDE20110301_220535_000060133100_00072_47069_2656.N1	01MAR2011 22:05:35	01MAR2011 23:45:48	0	0	0	0	0
15	SCI_NL__OPNPDE20110301_234548_000060133100_00073_47070_2657.N1	01MAR2011 23:45:48	02MAR2011 01:26:01	0	0	0	0	0

## 0.2 Product Quality Indicators

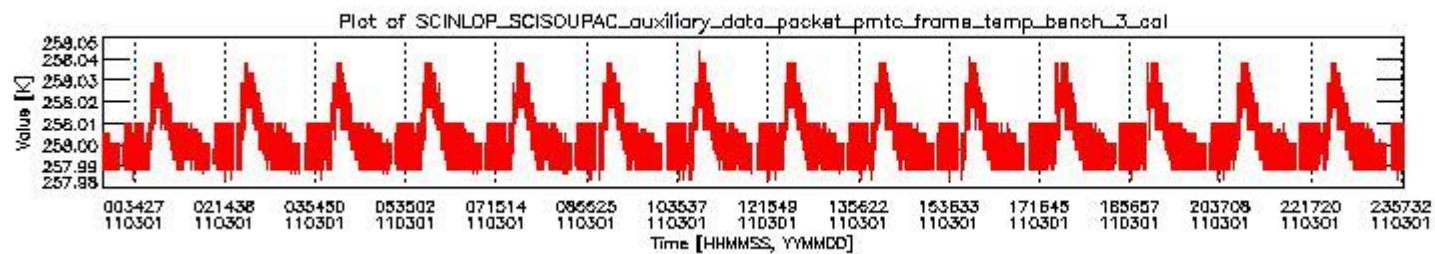
This section shows information about product quality, currently temperatures.



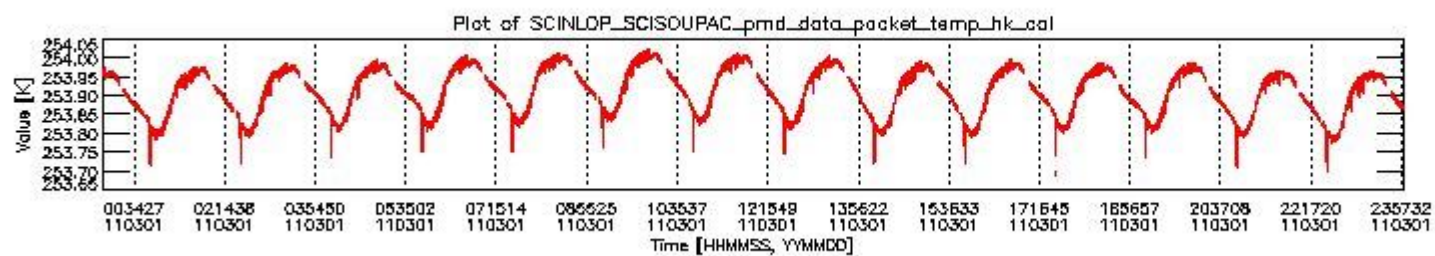
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110301\_0.PNG



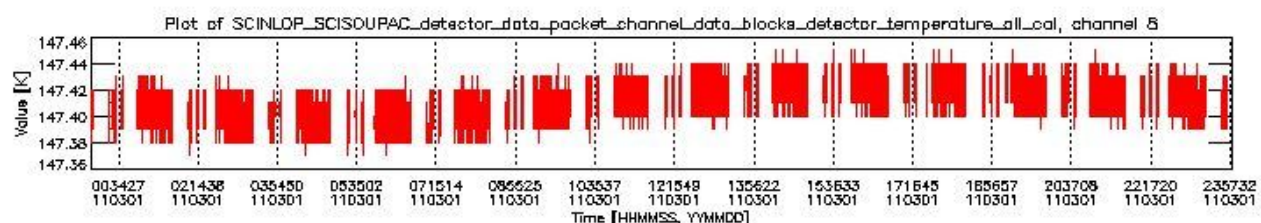
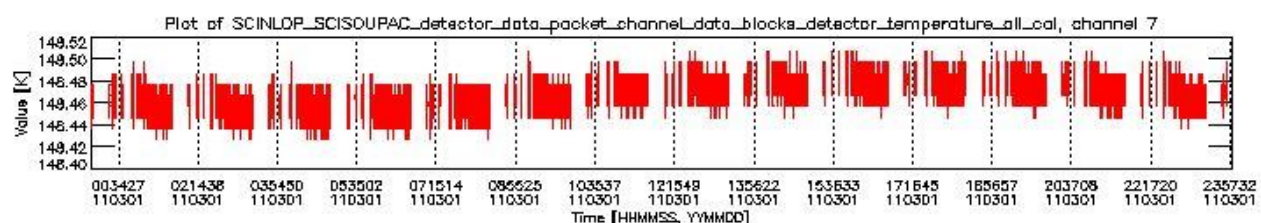
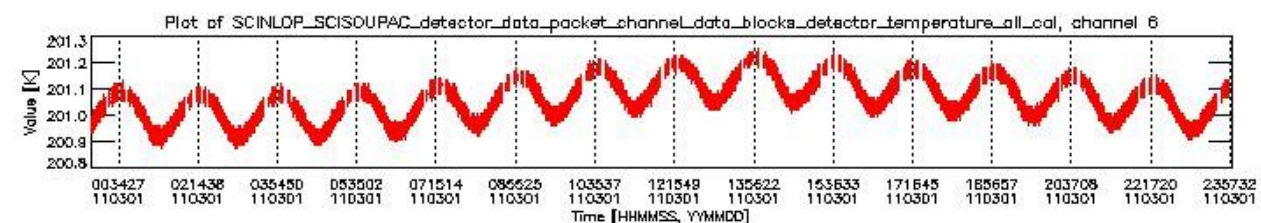
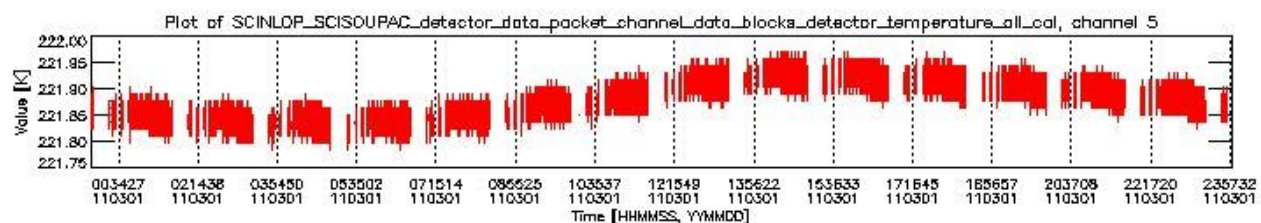
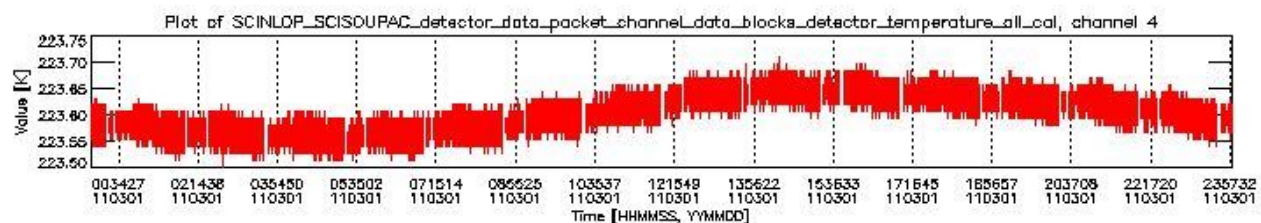
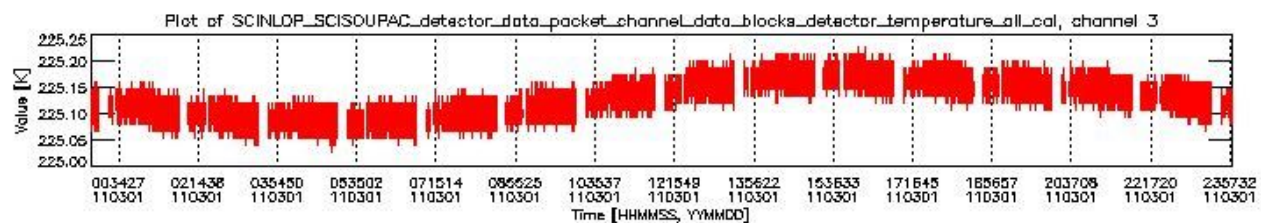
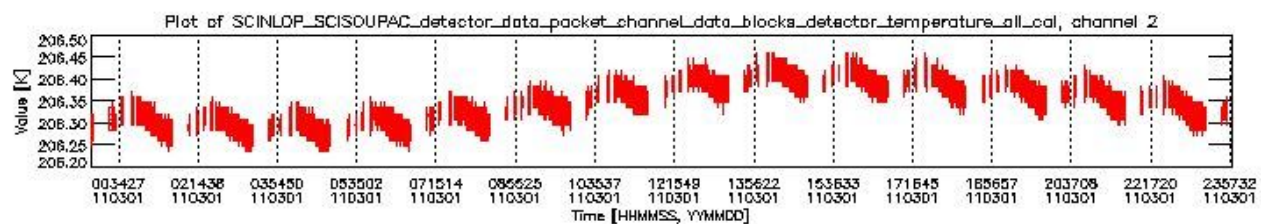
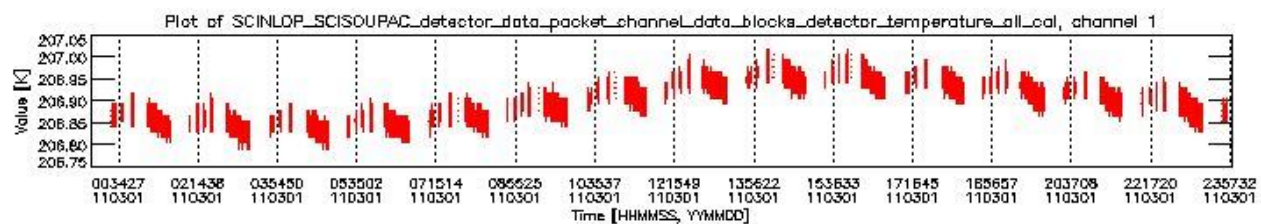
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110301\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110301\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110301\_3.PNG

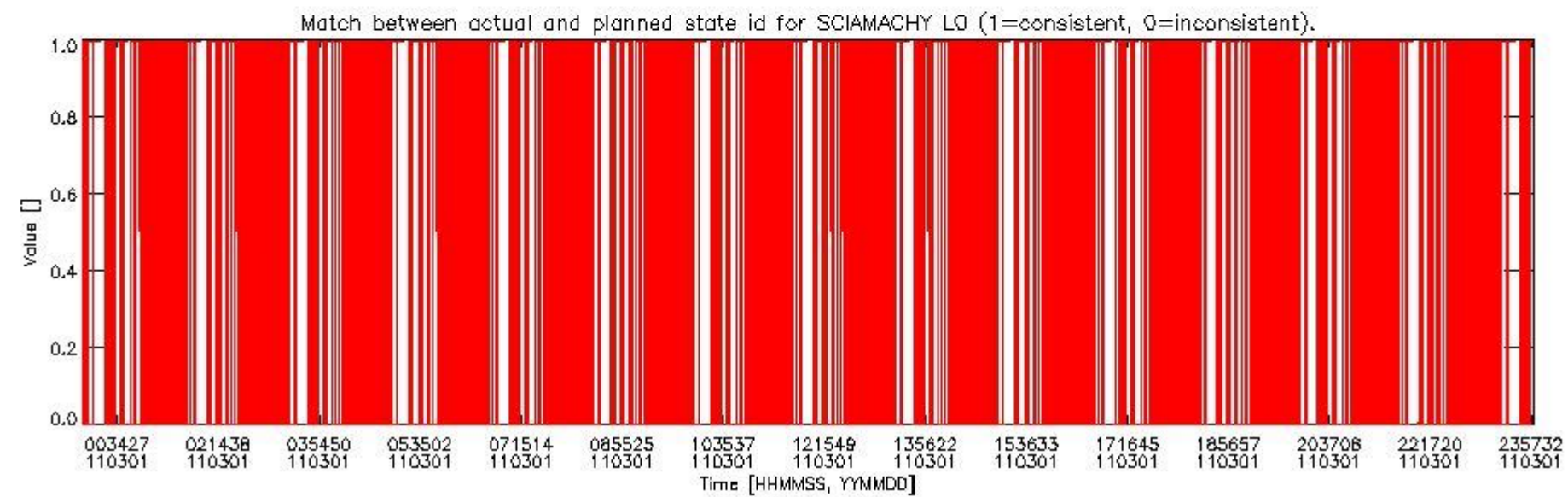
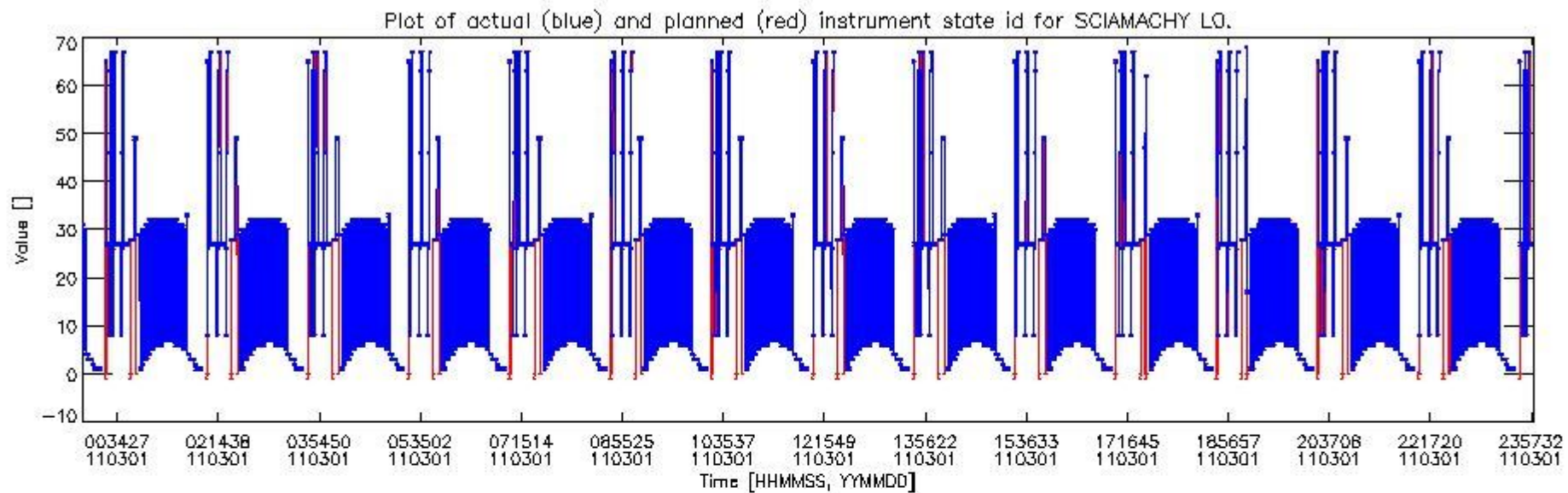


### 0.3 State monitoring

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: **37886**

#	Actual time	Actual value	Planned time	Planned value
0	01MAR2011 00:00:40.626443	5	01MAR2011 00:00:40.626443	31
1	01MAR2011 00:00:40.876443	5	01MAR2011 00:00:40.876443	31
2	01MAR2011 00:00:41.001443	5	01MAR2011 00:00:41.001443	31
3	01MAR2011 00:00:41.126443	5	01MAR2011 00:00:41.126443	31
4	01MAR2011 00:00:41.251443	5	01MAR2011 00:00:41.251443	31
5	01MAR2011 00:00:41.376443	5	01MAR2011 00:00:41.376443	31
6	01MAR2011 00:00:41.501443	5	01MAR2011 00:00:41.501443	31
7	01MAR2011 00:00:41.626443	5	01MAR2011 00:00:41.626443	31
8	01MAR2011 00:00:41.751443	5	01MAR2011 00:00:41.751443	31
9	01MAR2011 00:00:41.876443	5	01MAR2011 00:00:41.876443	31
10	01MAR2011 00:00:42.001443	5	01MAR2011 00:00:42.001443	31
11	01MAR2011 00:00:42.126443	5	01MAR2011 00:00:42.126443	31
12	01MAR2011 00:00:42.251443	5	01MAR2011 00:00:42.251443	31
13	01MAR2011 00:00:42.376443	5	01MAR2011 00:00:42.376443	31
14	01MAR2011 00:00:42.501443	5	01MAR2011 00:00:42.501443	31
15	01MAR2011 00:00:42.626443	5	01MAR2011 00:00:42.626443	31
16	01MAR2011 00:00:42.751443	5	01MAR2011 00:00:42.751443	31
17	01MAR2011 00:00:42.876443	5	01MAR2011 00:00:42.876443	31
18	01MAR2011 00:00:43.001443	5	01MAR2011 00:00:43.001443	31
19	01MAR2011 00:00:43.126443	5	01MAR2011 00:00:43.126443	31
	...	...	...	...

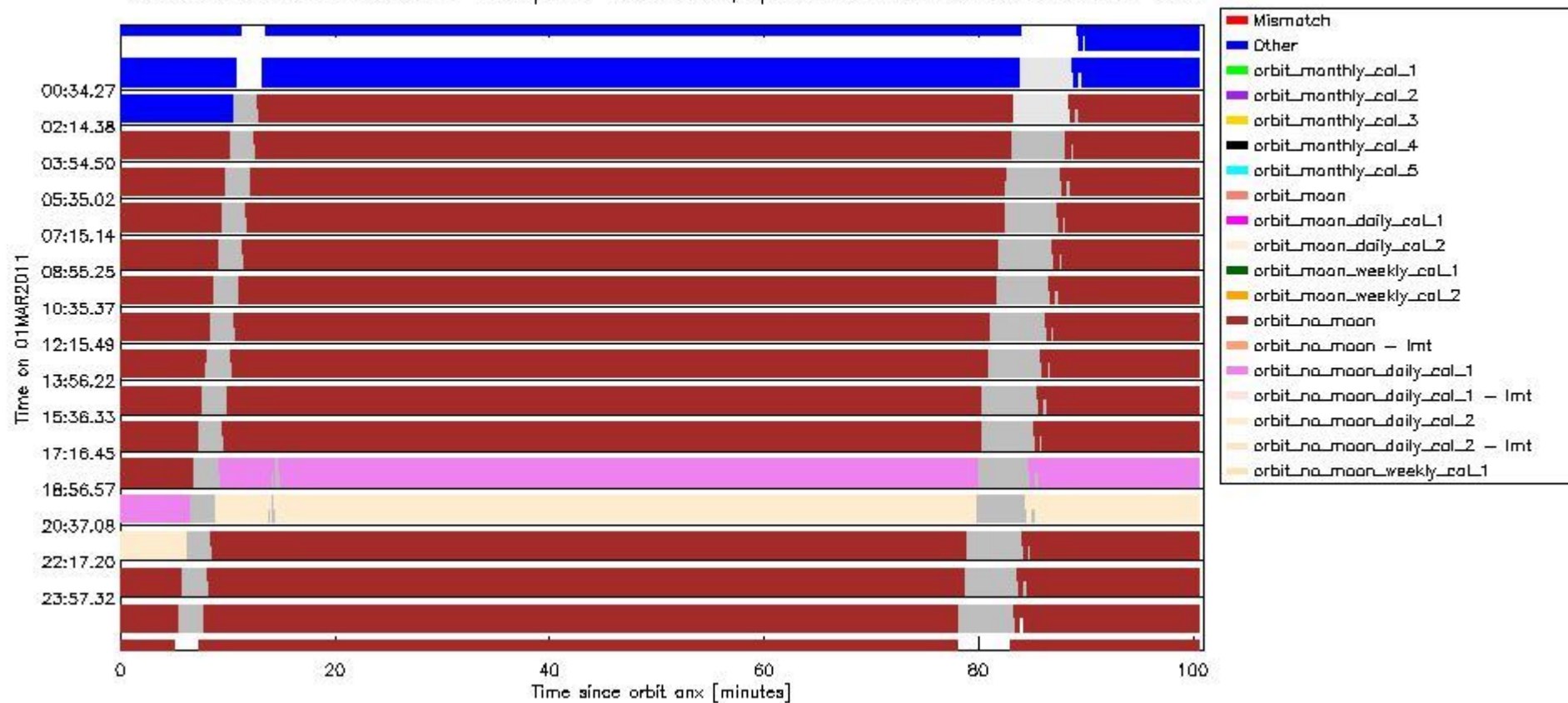


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110301\_5.PNG

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 01MAR2011.  
 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\_20110301\_6.PNG

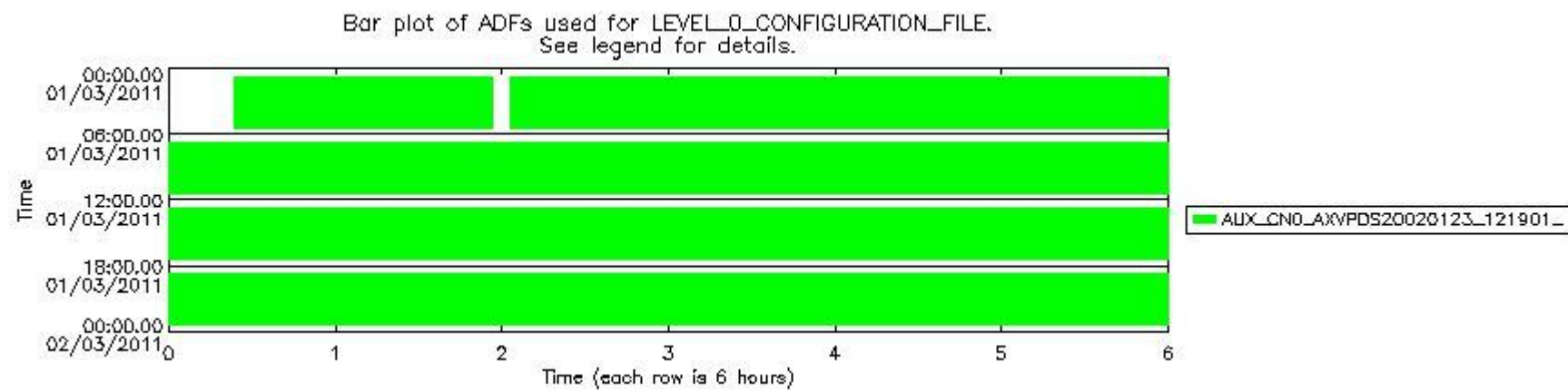
## 0.4 ADF monitoring

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

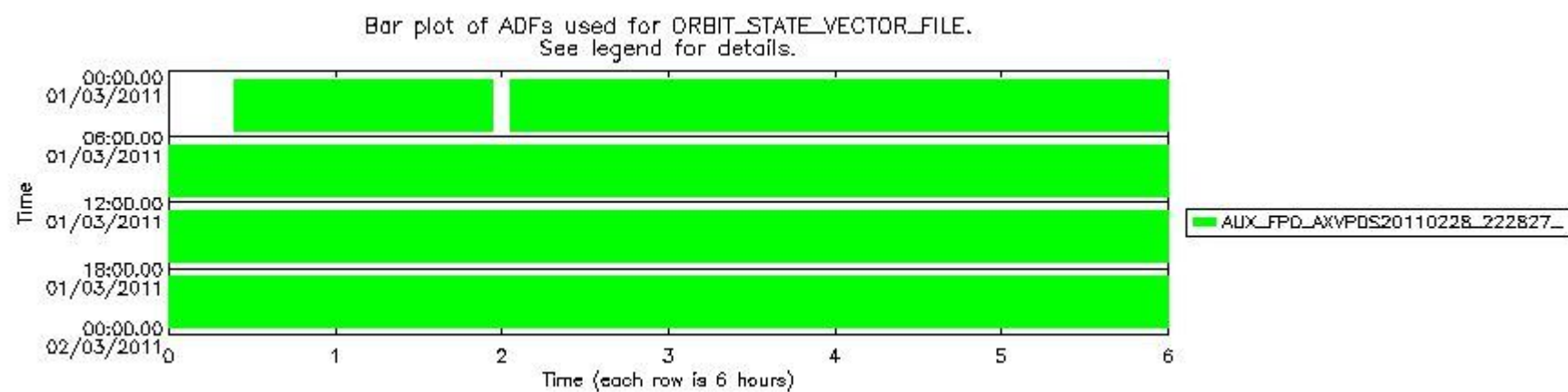
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

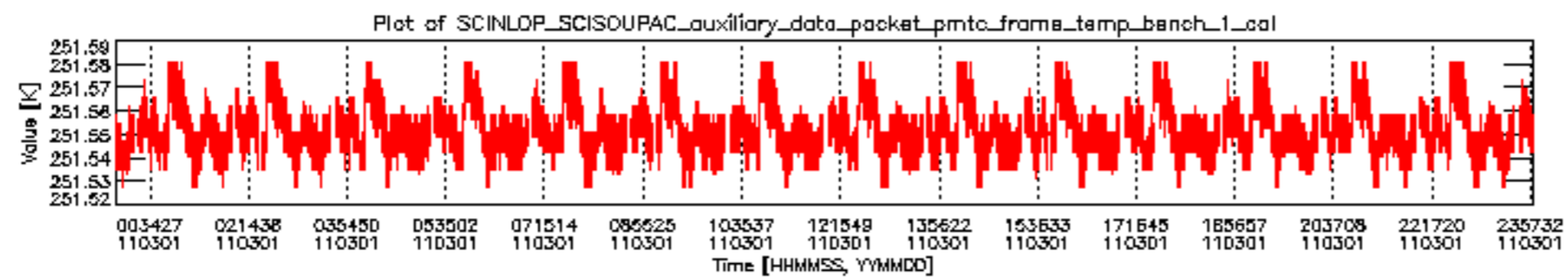
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110228_222827_20110228_193338_20110310_200714



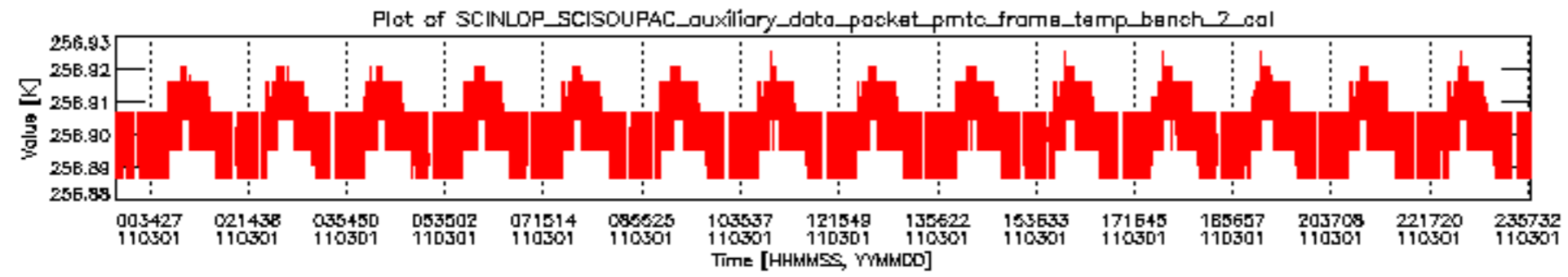
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110301\_7.PNG

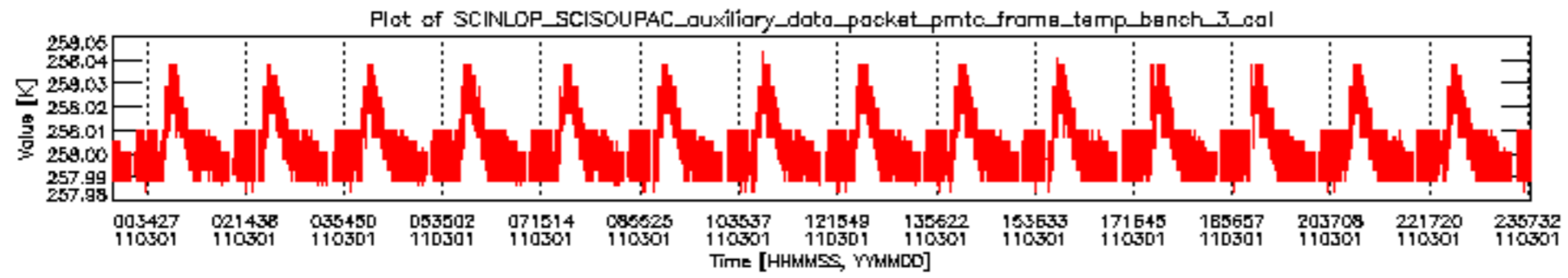


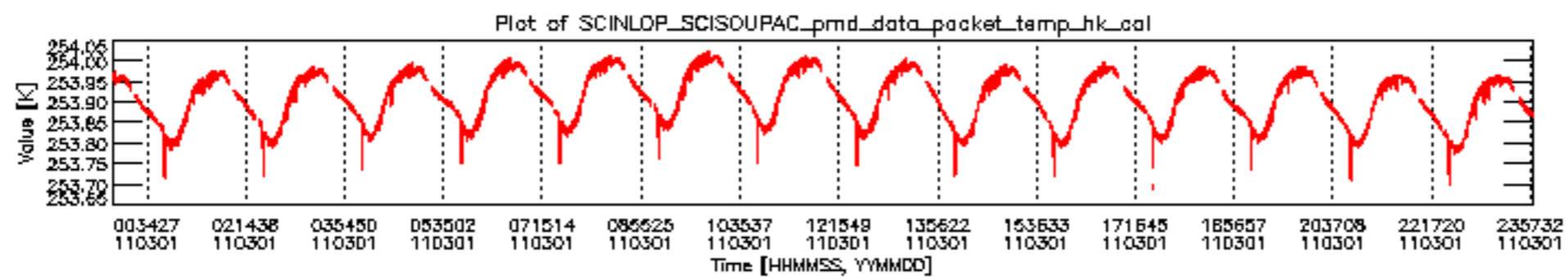
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110301\_8.PNG

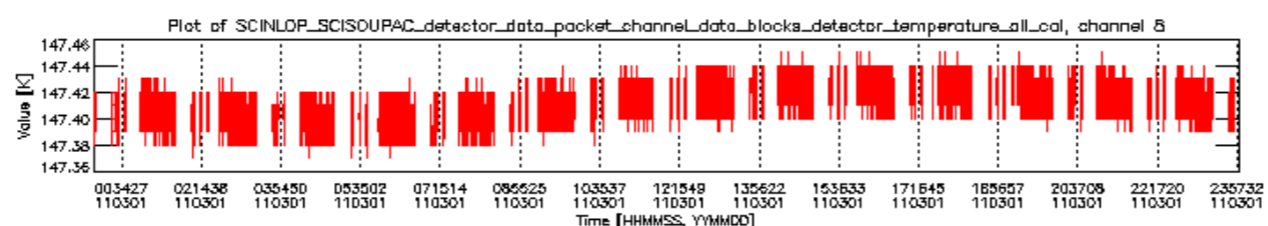
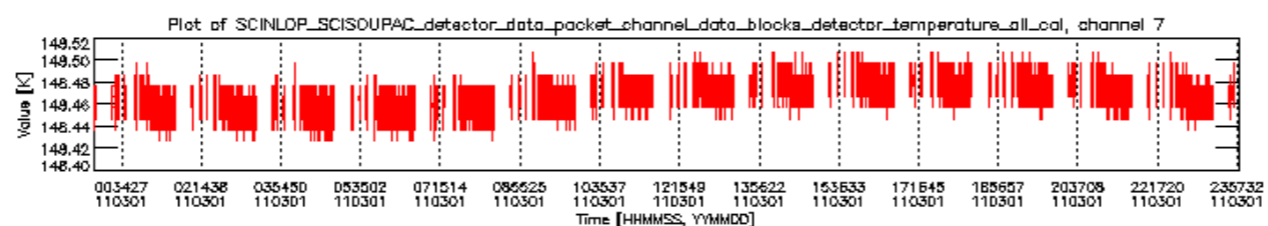
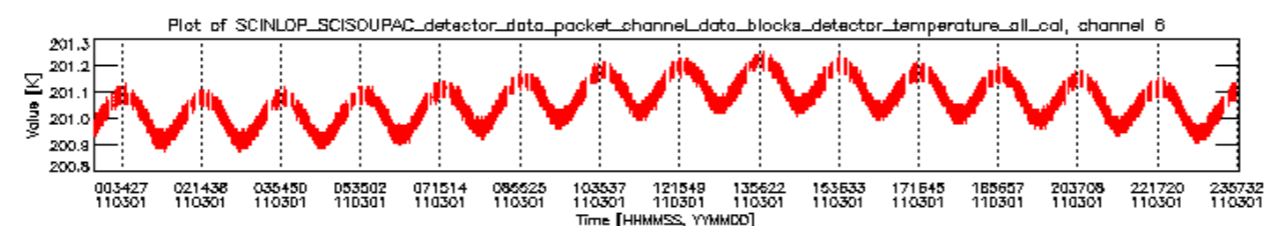
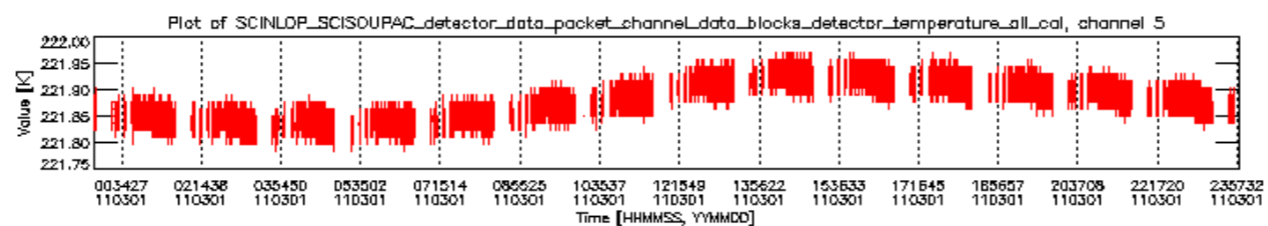
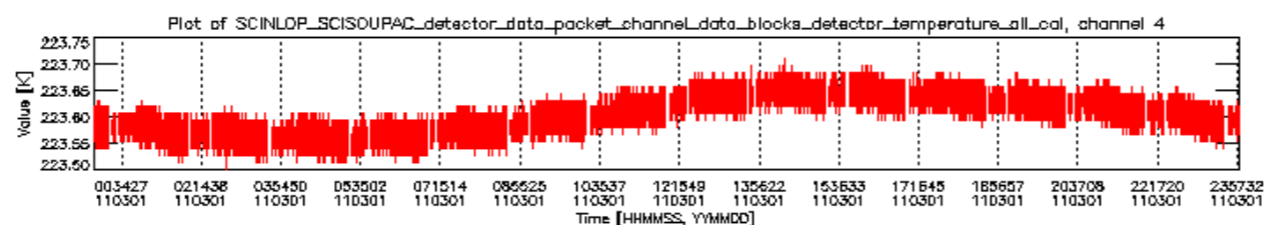
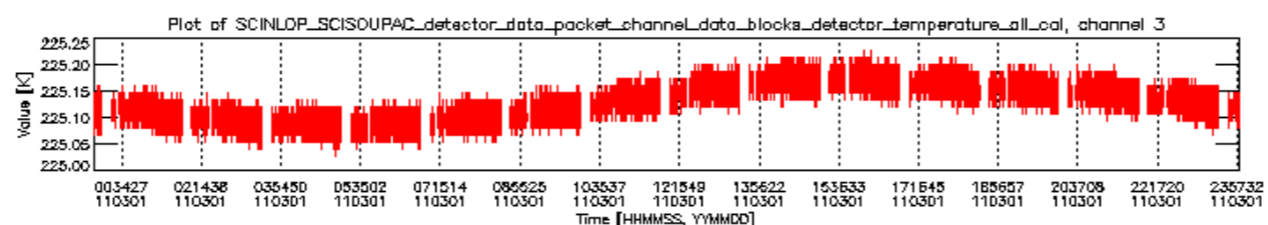
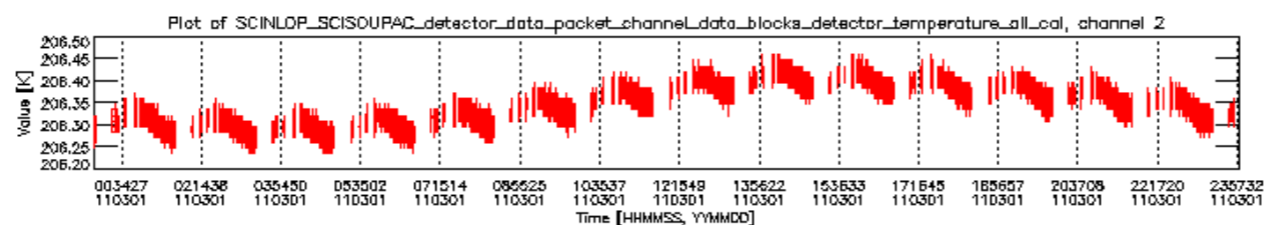
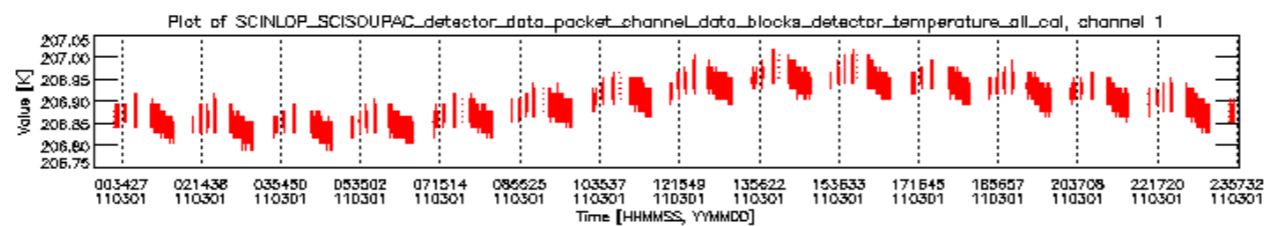


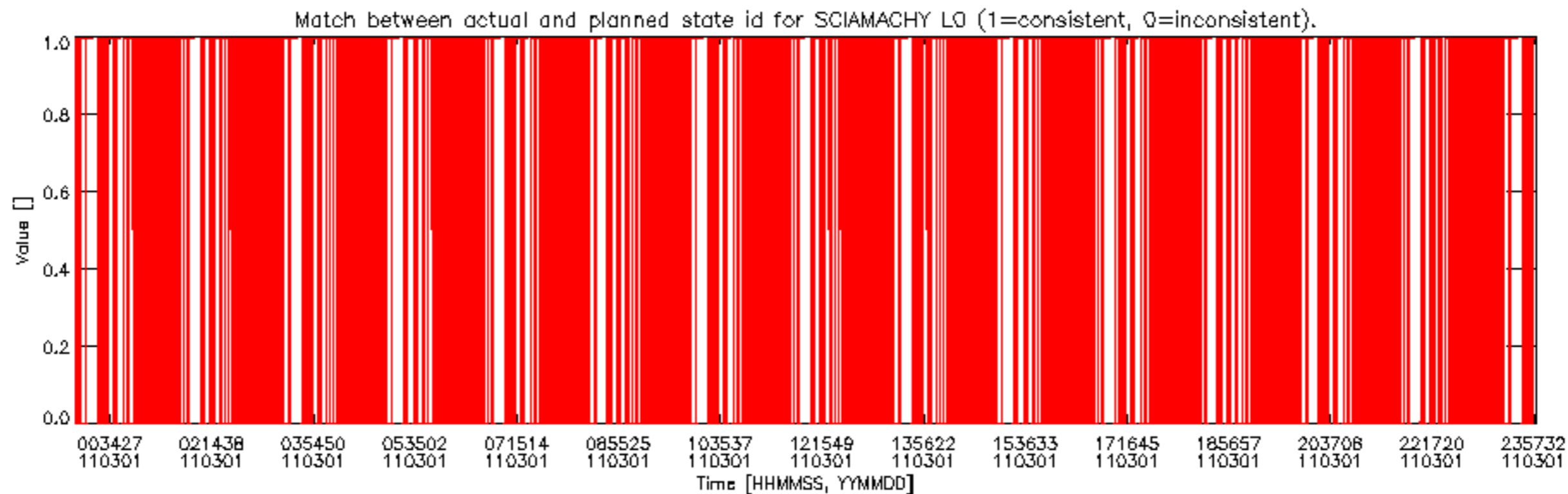
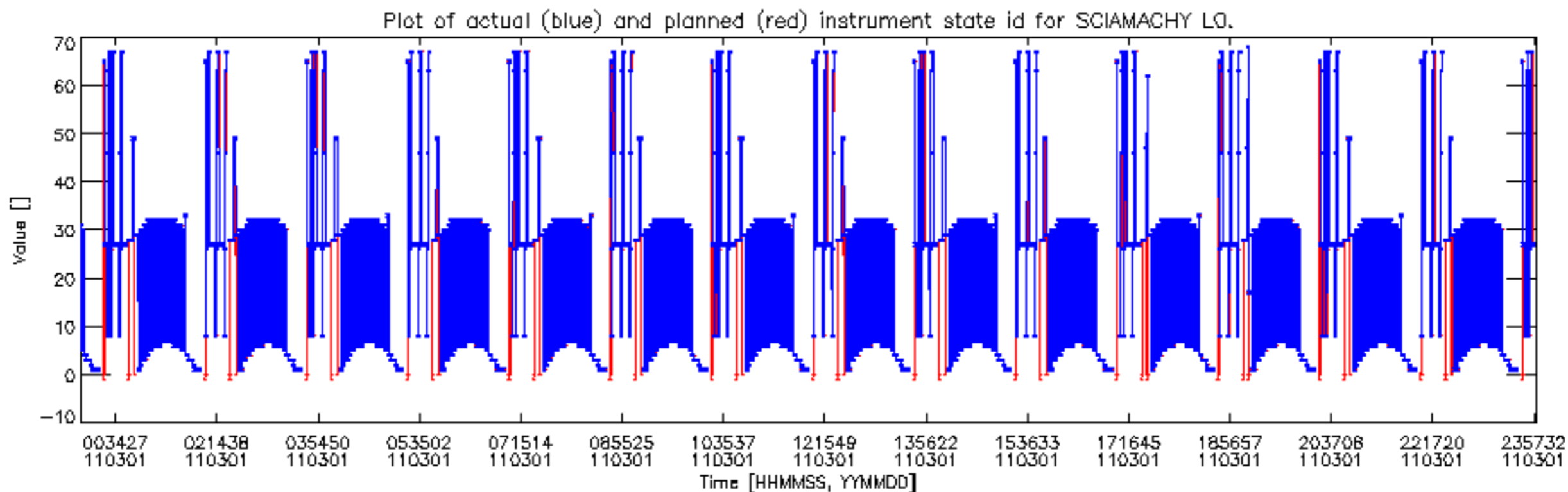












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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