

## 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	v1.3 20060731
Time of report generation	27APR2009 04:33:54
Data source version	KSPT_L0/4303-N
Processing scope for products	23APR2009 00:00:00 to 24APR2009 00:00:00
Start time of first product within scope	22APR2009 23:24:50
Stop time of last product within scope	24APR2009 00:32:19
Total number of level 0 products	16
Number of level 0 products with errors	2

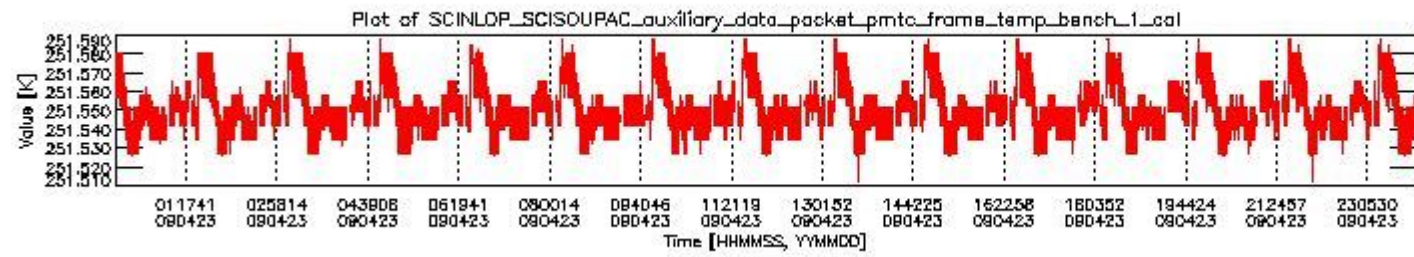
### 0.1.2 Summary per product

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

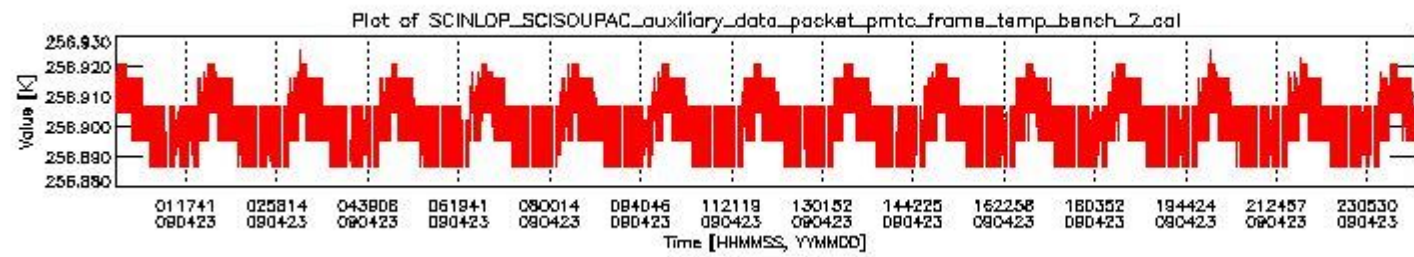
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090422_232450_000060352078_00230_37358_9003.N1	22APR2009 23:24:50	23APR2009 01:05:26	0	0	0	0	0
1	SCI_NL__OPNPDE20090423_010402_000048382078_00231_37359_9004.N1	23APR2009 01:04:02	23APR2009 02:24:40	0	0	0	0	0
2	SCI_NL__OPNPDE20090423_022332_000056622078_00232_37360_9005.N1	23APR2009 02:23:32	23APR2009 03:57:54	0	0	0	0	0
3	SCI_NL__OPNPDE20090423_035754_000060922078_00233_37361_9006.N1	23APR2009 03:57:54	23APR2009 05:39:26	0	0	0	0	0
4	SCI_NL__OPNPDE20090423_053830_000061042078_00234_37362_9007.N1	23APR2009 05:38:30	23APR2009 07:20:14	0	0	0	0	0
5	SCI_NL__OPNPDK20090423_072014_000040322078_00235_37363_1346.N1	23APR2009 07:20:14	23APR2009 08:27:26	0	0	0	0	0
6	SCI_NL__OPNPDK20090423_082630_000061602078_00236_37364_1347.N1	23APR2009 08:26:30	23APR2009 10:09:10	0	0	0	0	0
7	SCI_NL__OPNPDK20090423_100814_000059672078_00237_37365_1348.N1	23APR2009 10:08:14	23APR2009 11:47:41	0	0	0	0	0
8	SCI_NL__OPNPDK20090423_114633_000059802078_00238_37366_1349.N1	23APR2009 11:46:33	23APR2009 13:26:12	1	1	1	0	0
9	SCI_NL__OPNPDK20090423_132612_000059112078_00239_37367_1350.N1	23APR2009 13:26:12	23APR2009 15:04:44	0	0	0	0	0
10	SCI_NL__OPNPDK20090423_150239_000061042078_00240_37368_1351.N1	23APR2009 15:02:39	23APR2009 16:44:23	1	1	0	0	0
11	SCI_NL__OPNPDK20090423_164219_000058342078_00241_37369_1352.N1	23APR2009 16:42:19	23APR2009 18:19:33	0	0	0	0	0
12	SCI_NL__OPNPDK20090423_181837_000059502078_00242_37370_1353.N1	23APR2009 18:18:37	23APR2009 19:57:47	0	0	0	0	0
13	SCI_NL__OPNPDE20090423_195707_000041412078_00243_37371_9008.N1	23APR2009 19:57:07	23APR2009 21:06:08	0	0	0	0	0
14	SCI_NL__OPNPDE20090423_210608_000063752078_00243_37371_9009.N1	23APR2009 21:06:08	23APR2009 22:52:23	0	0	0	0	0
15	SCI_NL__OPNPDE20090423_225055_000060842078_00244_37372_9010.N1	23APR2009 22:50:55	24APR2009 00:32:19	0	0	0	0	0

## 0.2 Product Quality Indicators

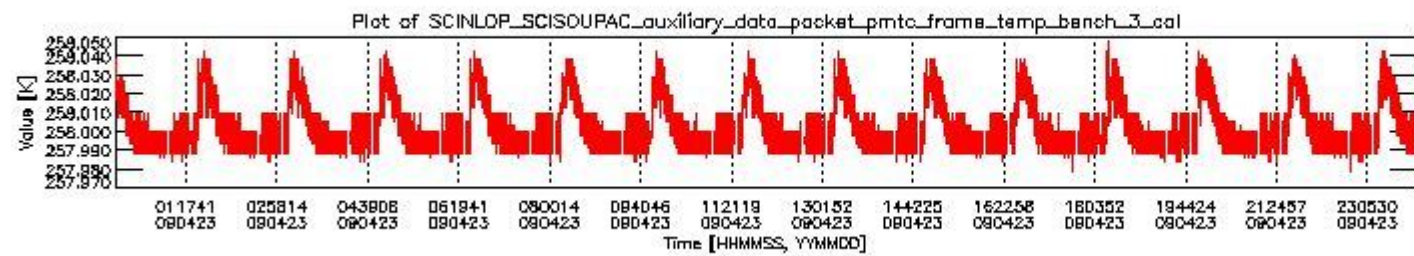
This section shows information about product quality, currently temperatures.



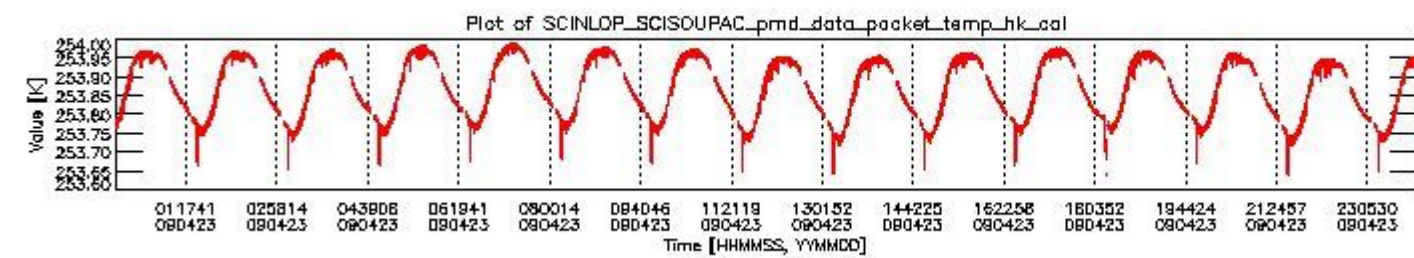
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090423\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090423\_1.PNG

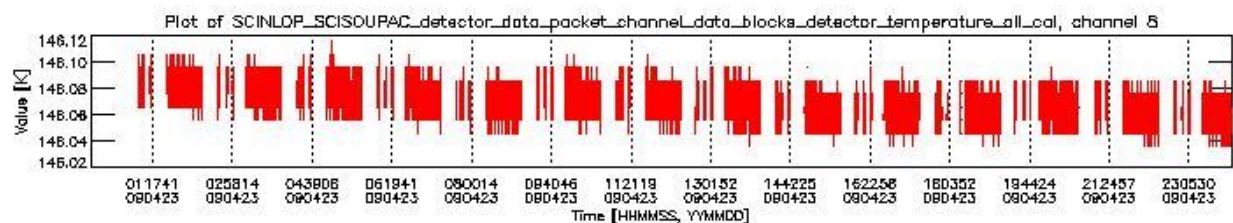
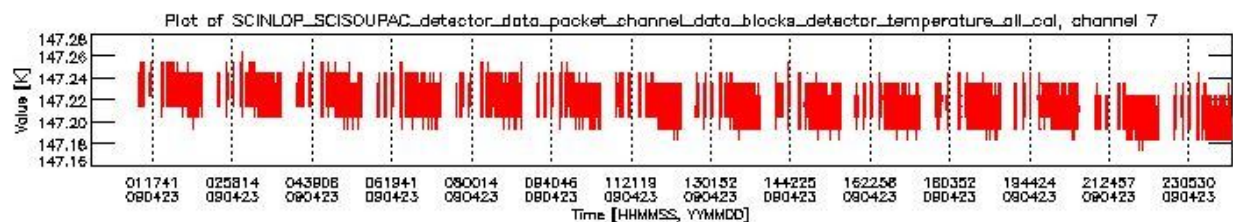
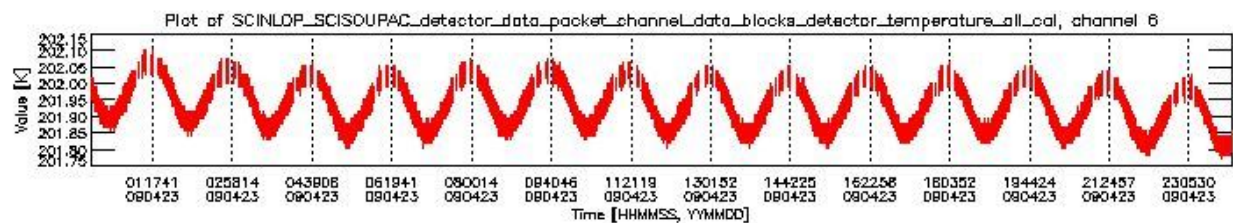
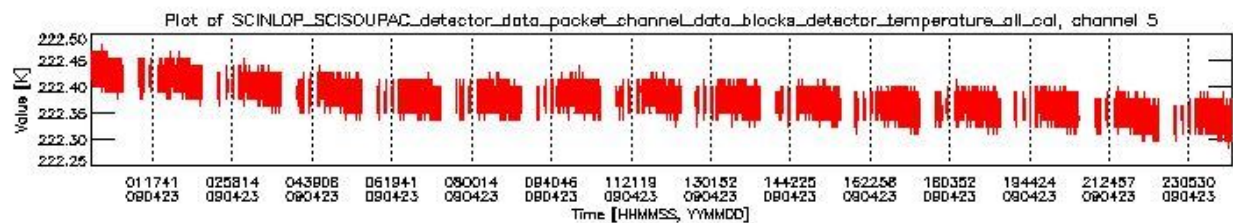
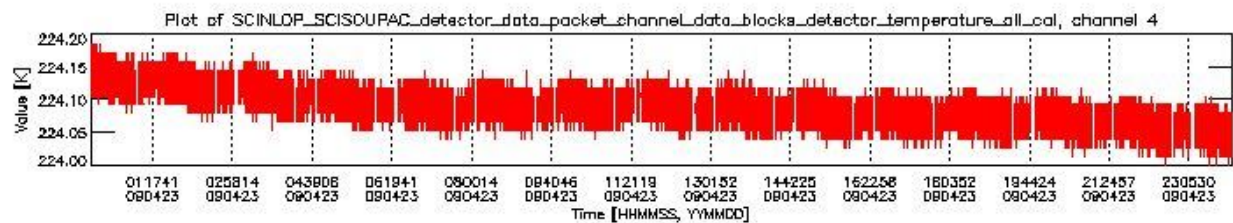
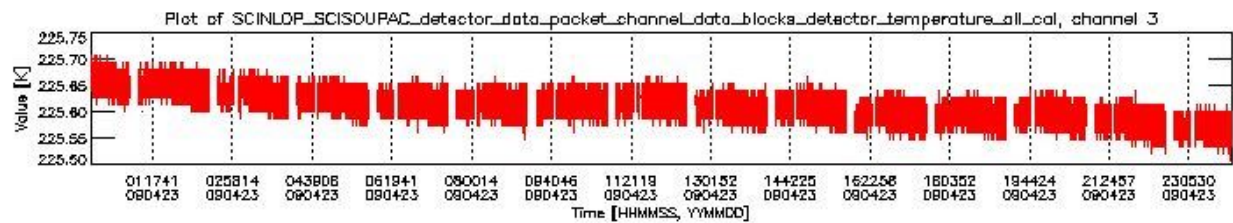
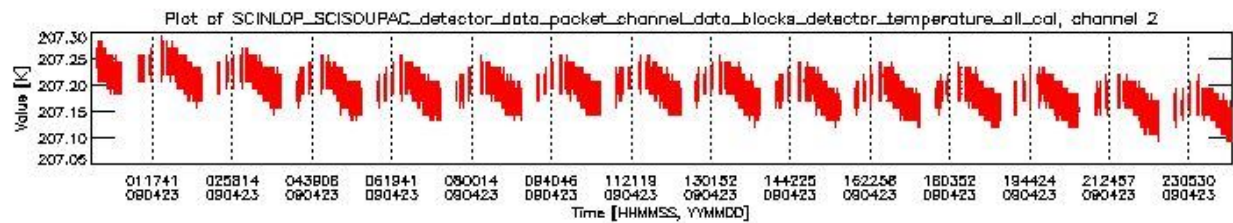
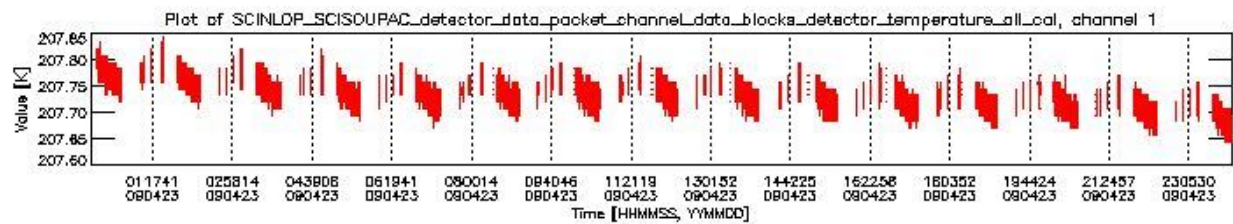


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090423\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090423\_3.PNG



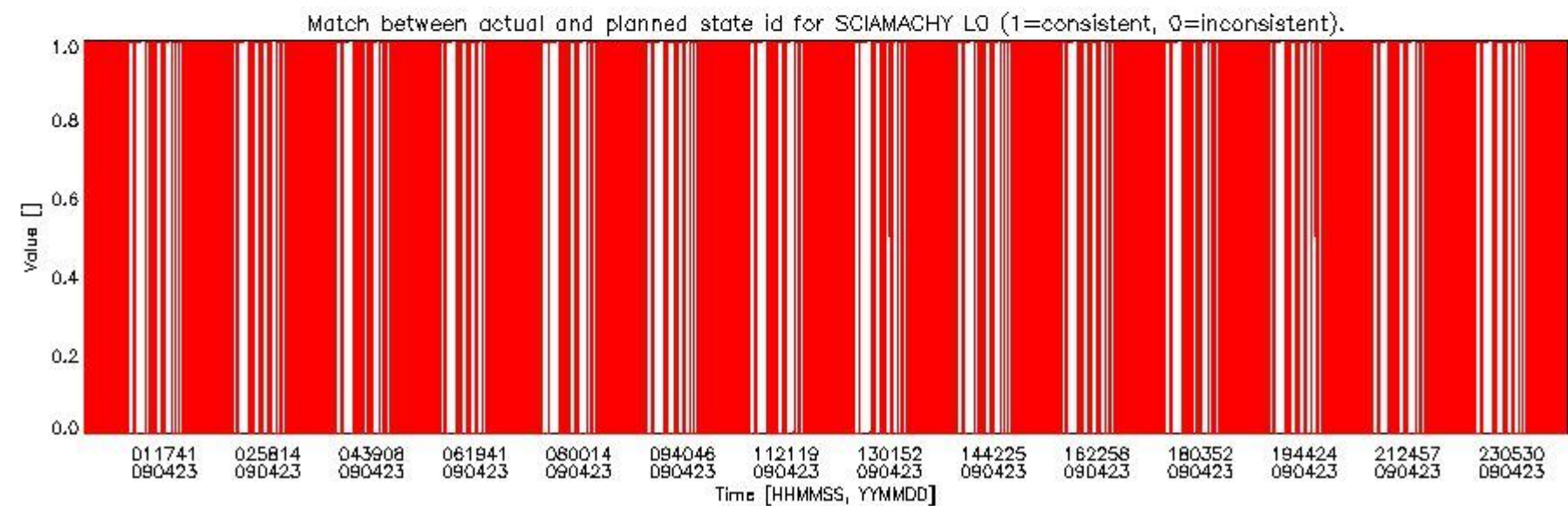
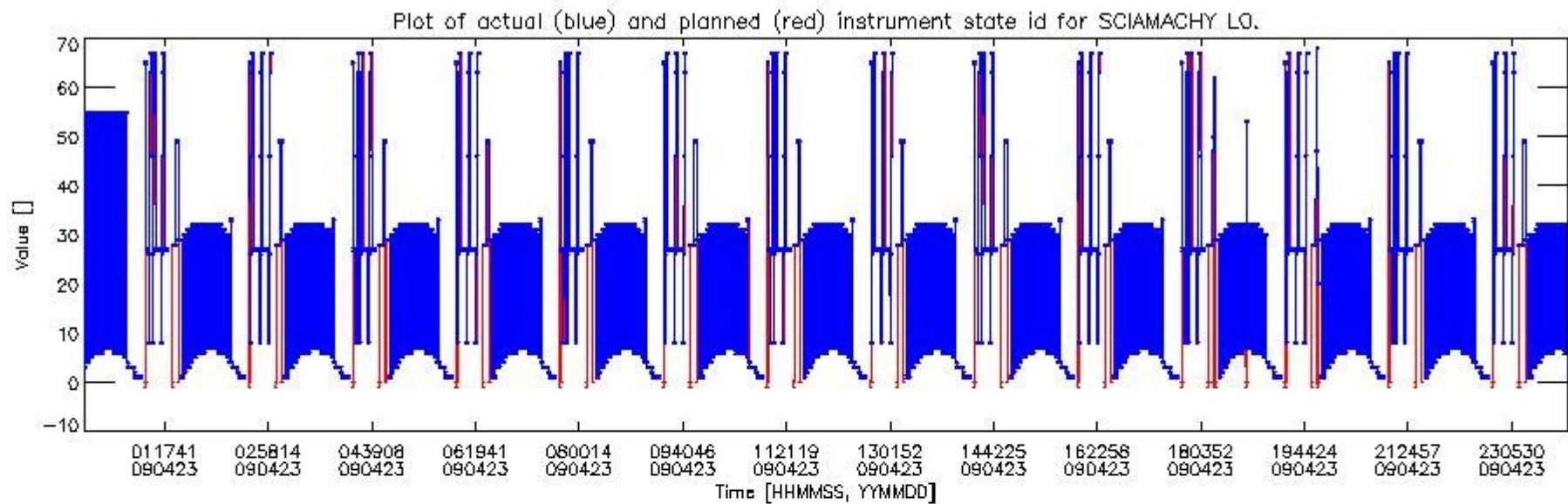


### 0.3 State monitoring

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: **53232**

#	Actual time	Actual value	Planned time	Planned value
0	23APR2009 00:00:32.433660	55	23APR2009 00:00:32.433660	3
1	23APR2009 00:00:33.058642	55	23APR2009 00:00:33.058642	3
2	23APR2009 00:00:33.433655	55	23APR2009 00:00:33.433655	3
3	23APR2009 00:00:33.808668	55	23APR2009 00:00:33.808668	3
4	23APR2009 00:00:34.371167	55	23APR2009 00:00:34.371167	3
5	23APR2009 00:00:34.746140	55	23APR2009 00:00:34.746140	3
6	23APR2009 00:00:35.121153	55	23APR2009 00:00:35.121153	3
7	23APR2009 00:00:35.496166	55	23APR2009 00:00:35.496166	3
8	23APR2009 00:00:36.058666	55	23APR2009 00:00:36.058666	3
9	23APR2009 00:00:36.433679	55	23APR2009 00:00:36.433679	3
10	23APR2009 00:00:36.808652	55	23APR2009 00:00:36.808652	3
11	23APR2009 00:00:37.183665	55	23APR2009 00:00:37.183665	3
12	23APR2009 00:00:37.433673	55	23APR2009 00:00:37.433673	3
13	23APR2009 00:00:37.746164	55	23APR2009 00:00:37.746164	3
14	23APR2009 00:00:38.121177	55	23APR2009 00:00:38.121177	3
15	23APR2009 00:00:38.496150	55	23APR2009 00:00:38.496150	3
16	23APR2009 00:00:38.871163	55	23APR2009 00:00:38.871163	3
17	23APR2009 00:00:39.433663	55	23APR2009 00:00:39.433663	3
18	23APR2009 00:00:39.808676	55	23APR2009 00:00:39.808676	3
19	23APR2009 00:00:40.183648	55	23APR2009 00:00:40.183648	3
	...	...	...	...



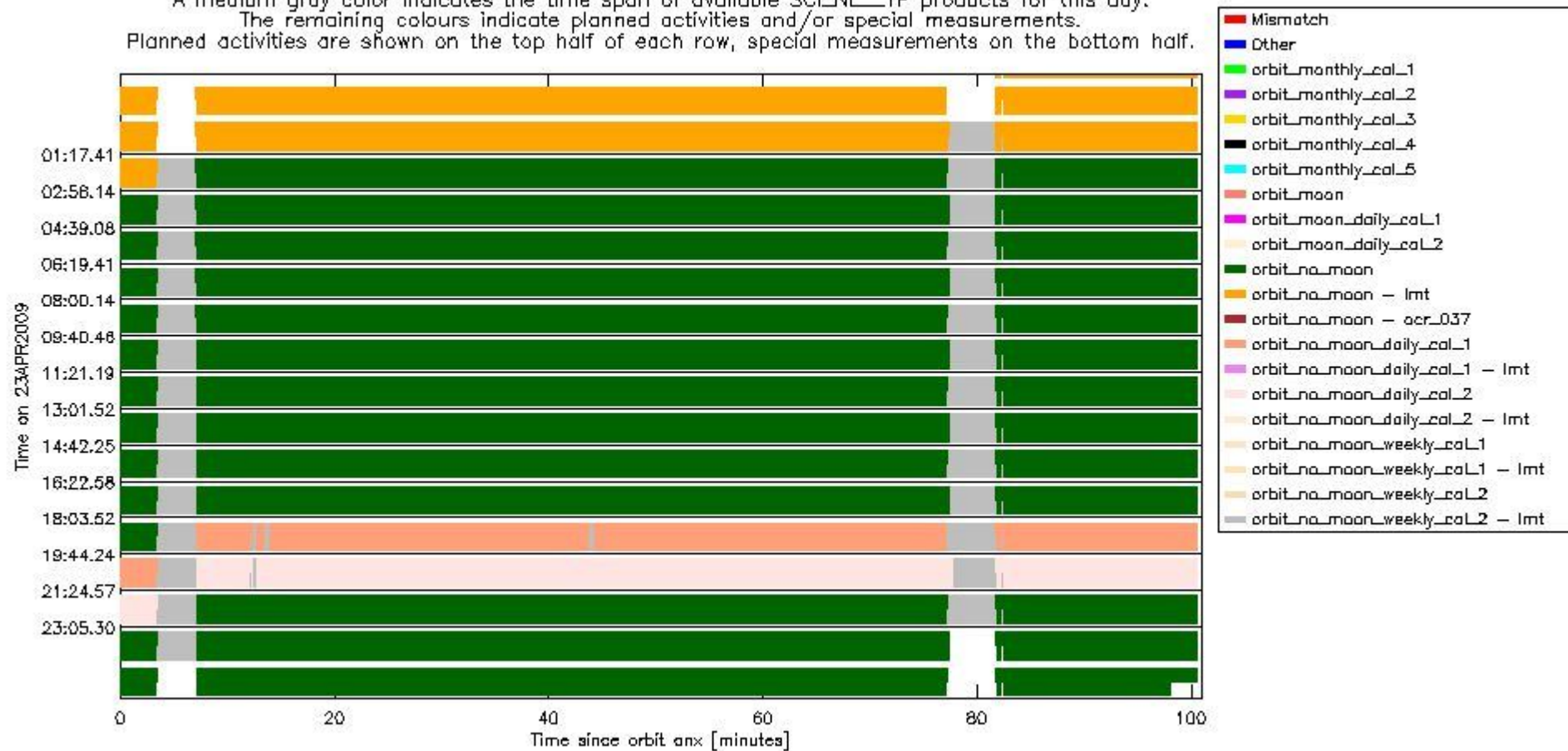
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090423\_5.PNG

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 23APR2009.  
 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\_4303\_N\_20090423\_6.PNG

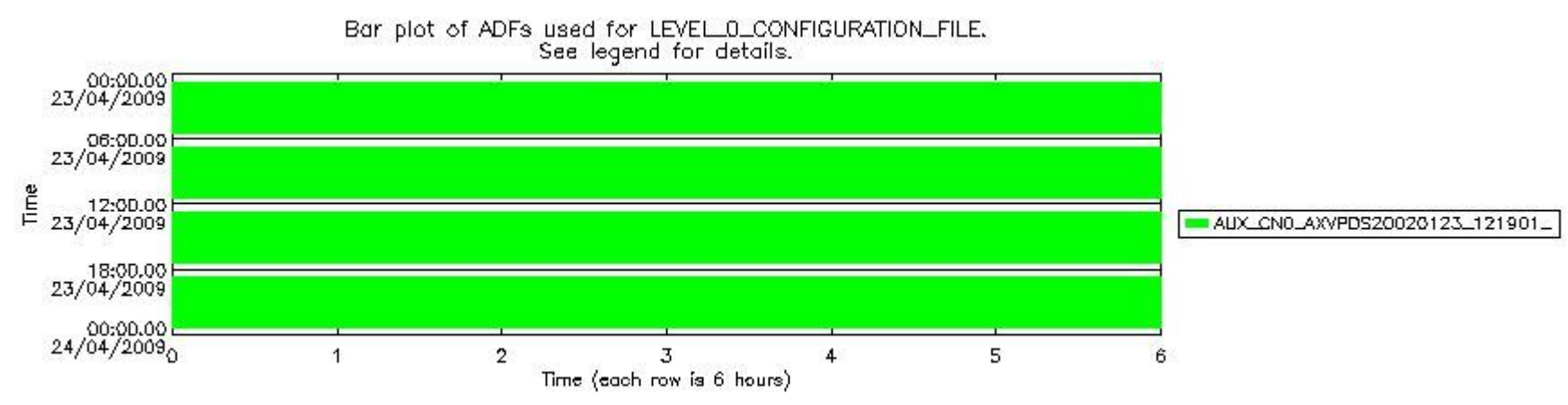
## 0.4 ADF monitoring

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

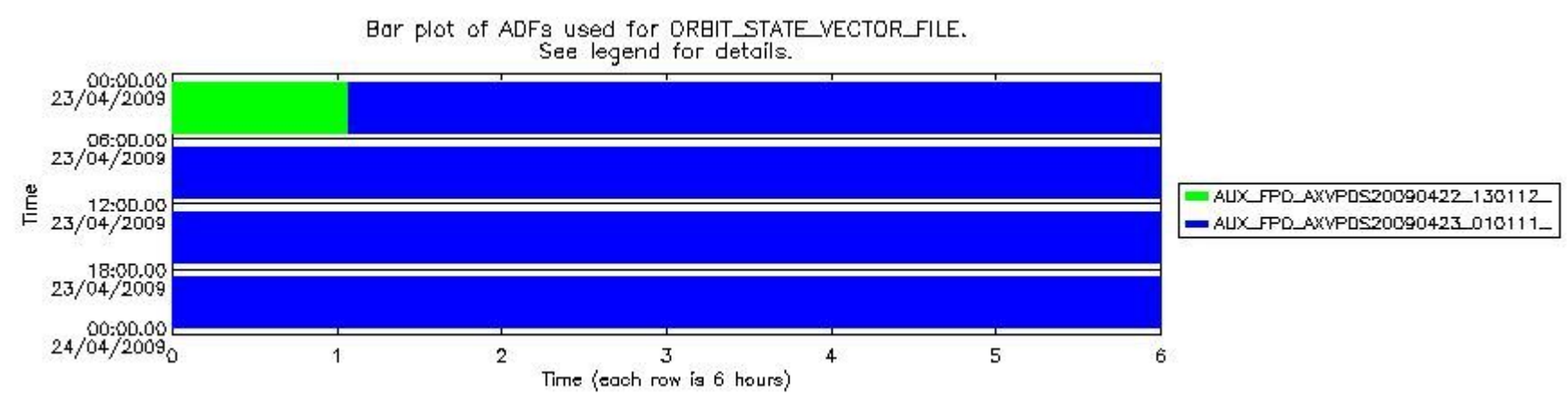
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

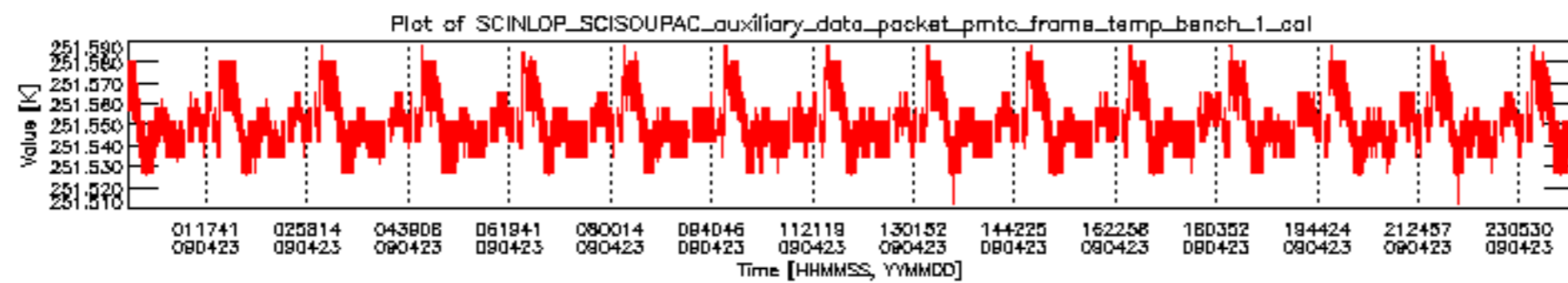
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090422_130112_20090421_190659_20090501_203314
2	AUX_FPO_AXVPDS20090423_010111_20090422_183522_20090502_200137



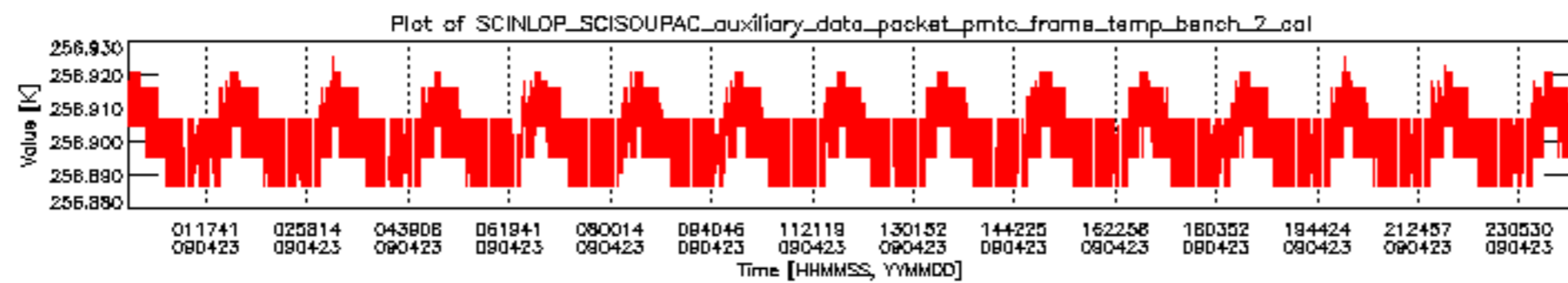
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090423\_7.PNG

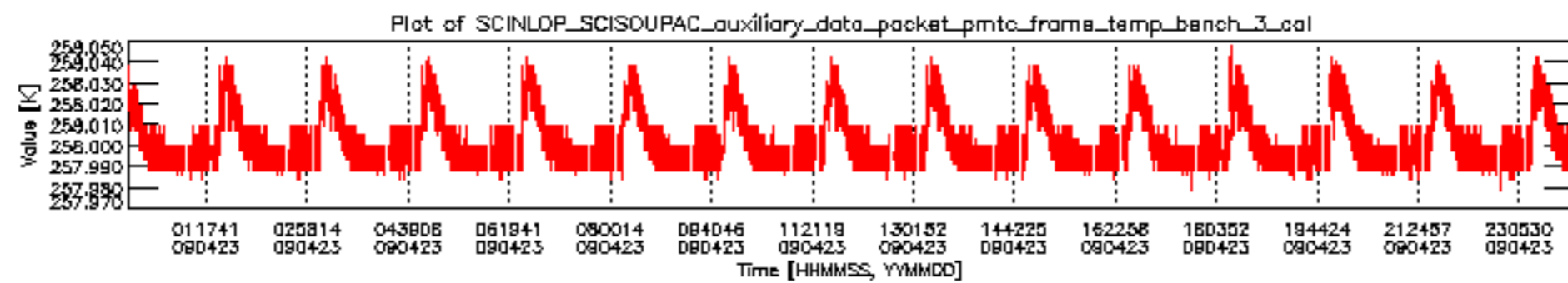


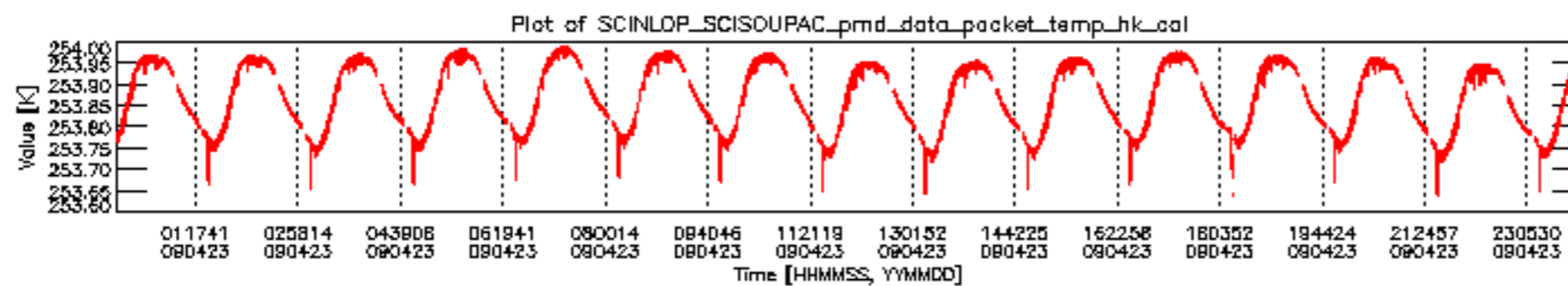
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090423\_8.PNG

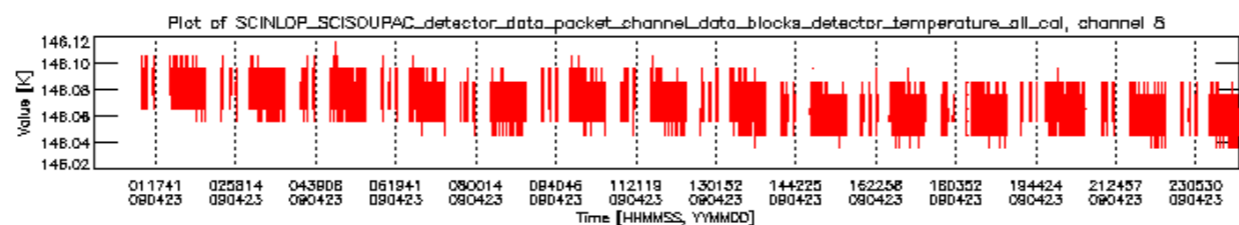
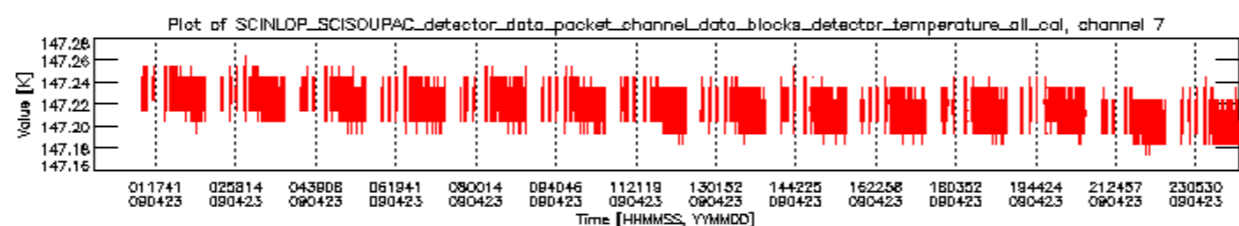
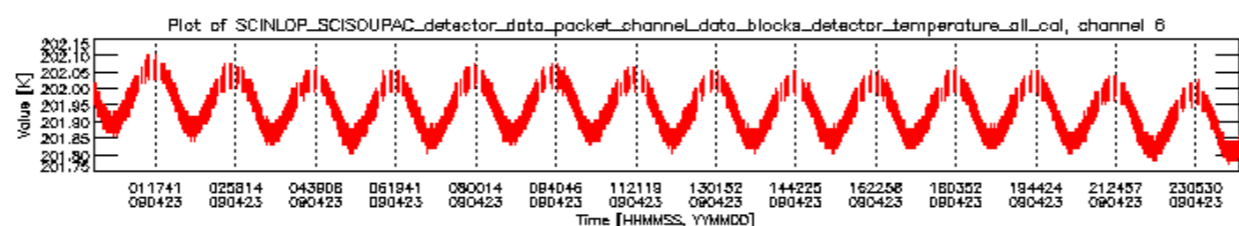
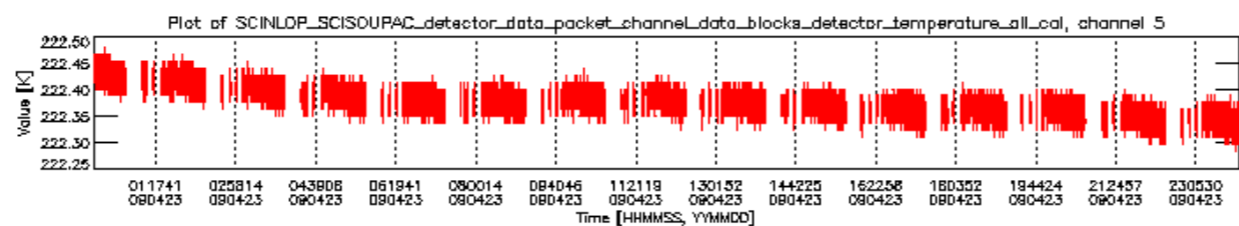
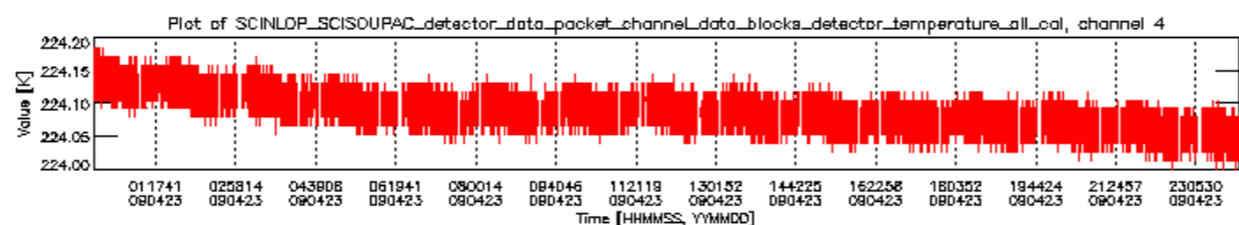
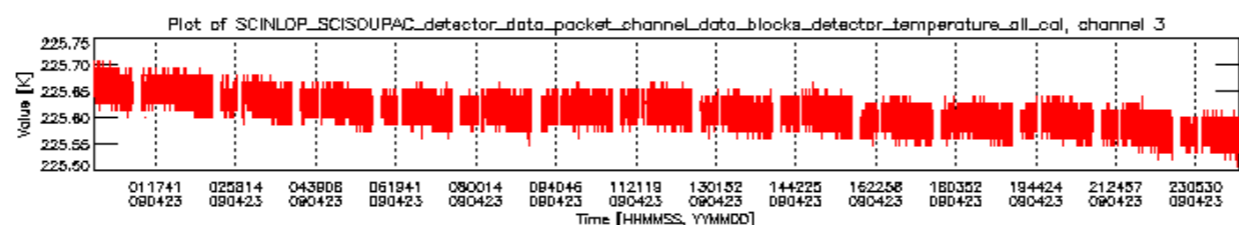
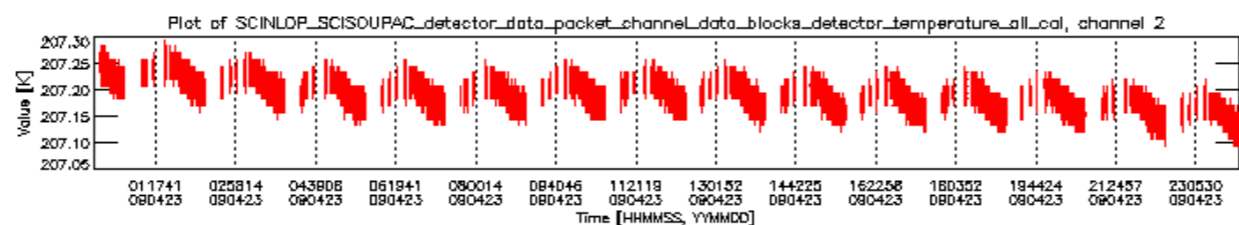
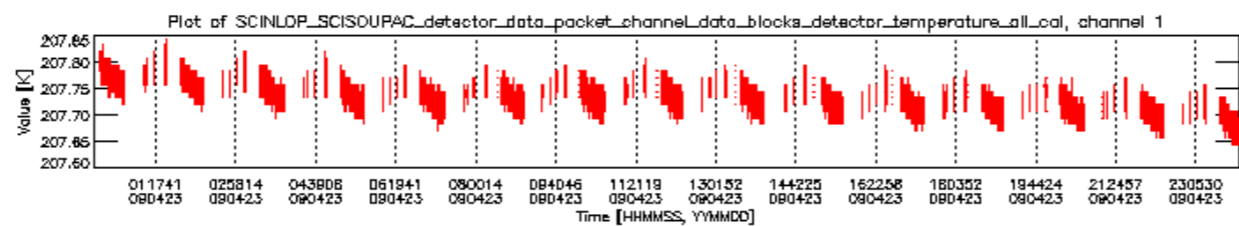




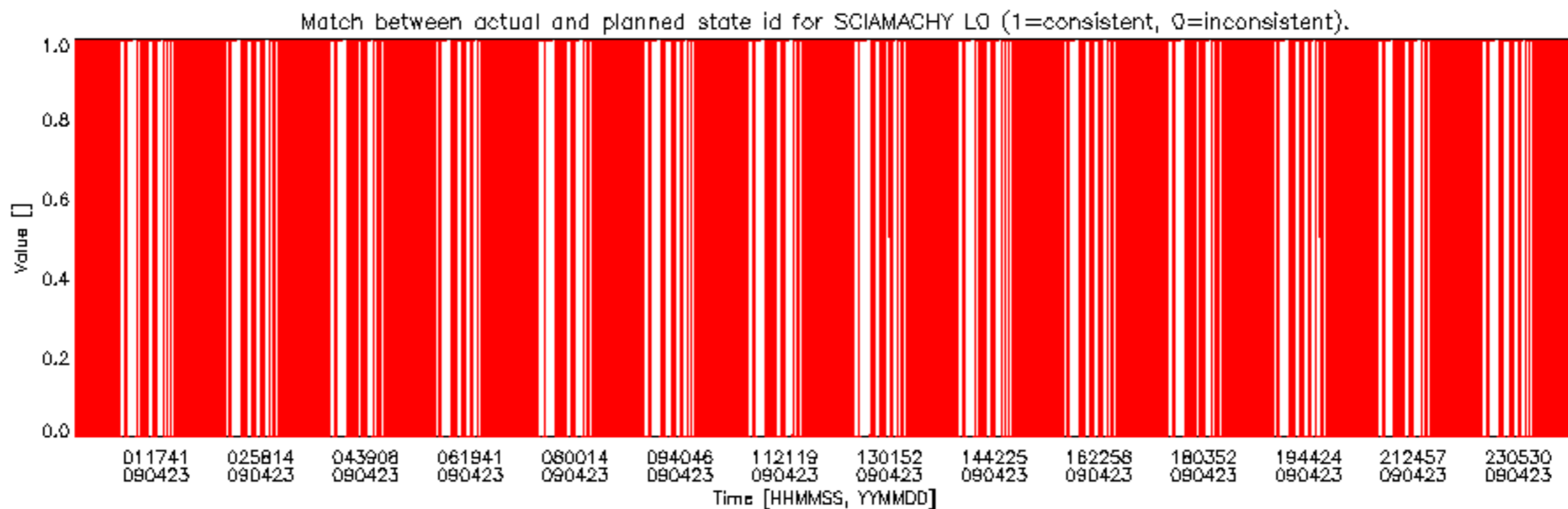
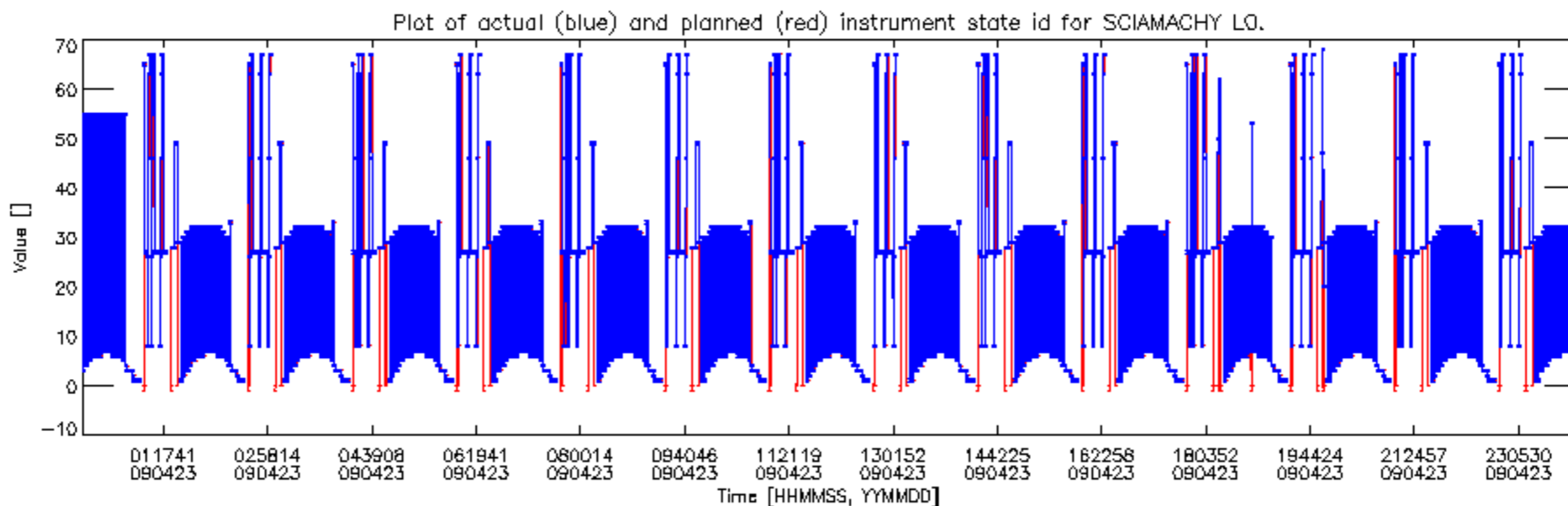












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 23APR2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.



