

# 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	v1.3 20060731
Time of report generation	07FEB2009 05:28:55
Data source version	KSPT_L0/4303-N
Processing scope for products	03FEB2009 00:00:00 to 04FEB2009 00:00:00
Start time of first product within scope	02FEB2009 23:11:17
Stop time of last product within scope	04FEB2009 00:12:36
Total number of level 0 products	16
Number of level 0 products with errors	0

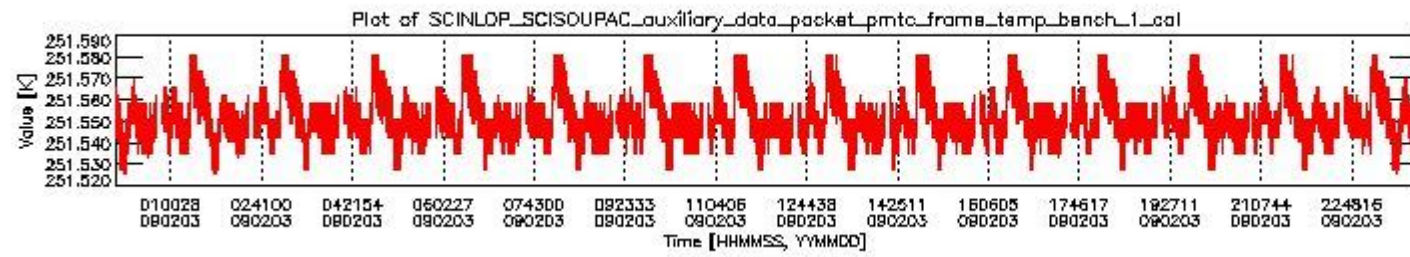
#### 0.1.2 Summary per product

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

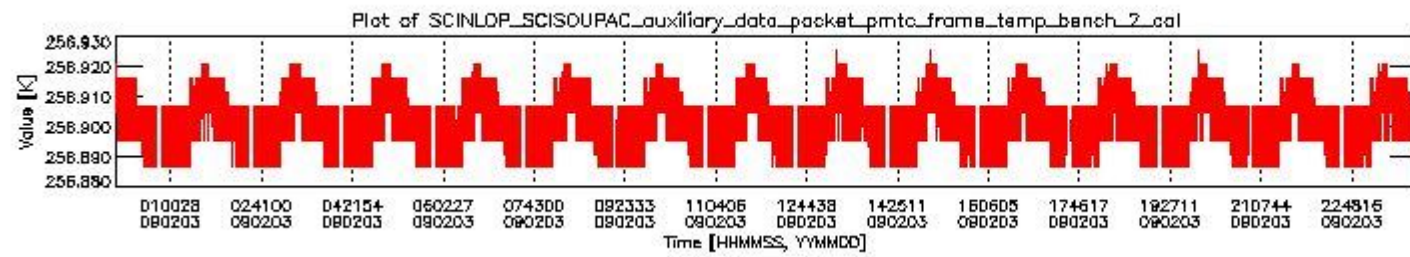
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090202_231117_000055822076_00101_36227_8415.N1	02FEB2009 23:11:17	03FEB2009 00:44:19	0	0	0	0	0
1	SCI_NL__OPNPDE20090203_005153_000055262076_00102_36228_8416.N1	03FEB2009 00:51:53	03FEB2009 02:23:59	0	0	0	0	0
2	SCI_NL__OPNPDE20090203_022250_000046722076_00103_36229_8417.N1	03FEB2009 02:22:50	03FEB2009 03:40:42	0	0	0	0	0
3	SCI_NL__OPNPDE20090203_033934_000061732076_00104_36230_8418.N1	03FEB2009 03:39:34	03FEB2009 05:22:26	0	0	0	0	0
4	SCI_NL__OPNPDE20090203_052226_000060232076_00105_36231_8419.N1	03FEB2009 05:22:26	03FEB2009 07:02:49	0	0	0	0	0
5	SCI_NL__OPNPDK20090203_070153_000040452076_00106_36232_0620.N1	03FEB2009 07:01:53	03FEB2009 08:09:18	0	0	0	0	0
6	SCI_NL__OPNPDK20090203_080822_000062722076_00107_36233_0621.N1	03FEB2009 08:08:22	03FEB2009 09:52:54	0	0	0	0	0
7	SCI_NL__OPNPDK20090203_095158_000059802076_00108_36234_0622.N1	03FEB2009 09:51:58	03FEB2009 11:31:37	0	0	0	0	0
8	SCI_NL__OPNPDK20090203_113029_000059672076_00109_36235_0623.N1	03FEB2009 11:30:29	03FEB2009 13:09:56	0	0	0	0	0
9	SCI_NL__OPNPDK20090203_130900_000058682076_00110_36236_0624.N1	03FEB2009 13:09:00	03FEB2009 14:46:48	0	0	0	0	0
10	SCI_NL__OPNPDK20090203_144430_000060362076_00111_36237_0625.N1	03FEB2009 14:44:30	03FEB2009 16:25:05	0	0	0	0	0
11	SCI_NL__OPNPDK20090203_162409_000058682076_00112_36238_0626.N1	03FEB2009 16:24:09	03FEB2009 18:01:56	0	0	0	0	0
12	SCI_NL__OPNPDK20090203_180156_000060912076_00113_36239_0627.N1	03FEB2009 18:01:56	03FEB2009 19:43:28	0	0	0	0	0
13	SCI_NL__OPNPDE20090203_194232_000040942076_00114_36240_8420.N1	03FEB2009 19:42:32	03FEB2009 20:50:46	0	0	0	0	0
14	SCI_NL__OPNPDE20090203_204937_000061562076_00114_36240_8421.N1	03FEB2009 20:49:37	03FEB2009 22:32:14	0	0	0	0	0
15	SCI_NL__OPNPDE20090203_223935_000055812076_00115_36241_8422.N1	03FEB2009 22:39:35	04FEB2009 00:12:36	0	0	0	0	0

### 0.2 Product Quality Indicators

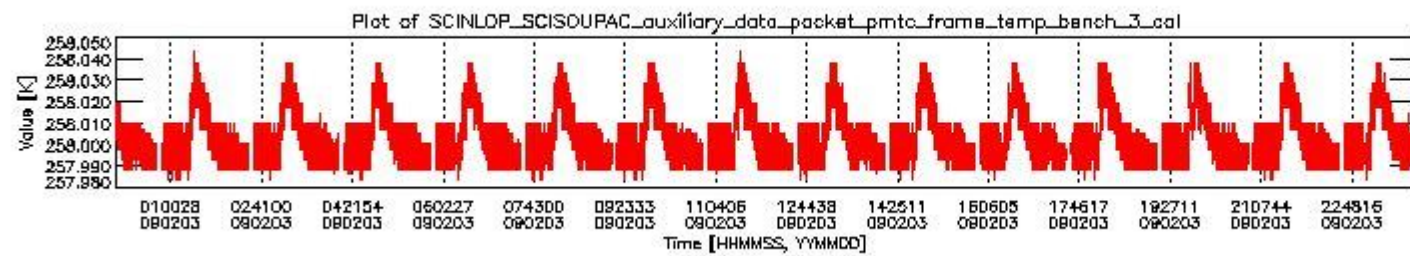
This section shows information about product quality, currently temperatures.



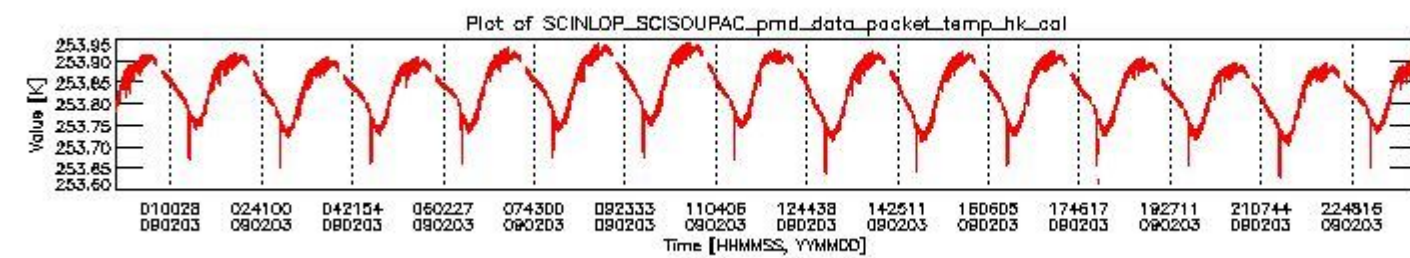
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090203\_0.PNG



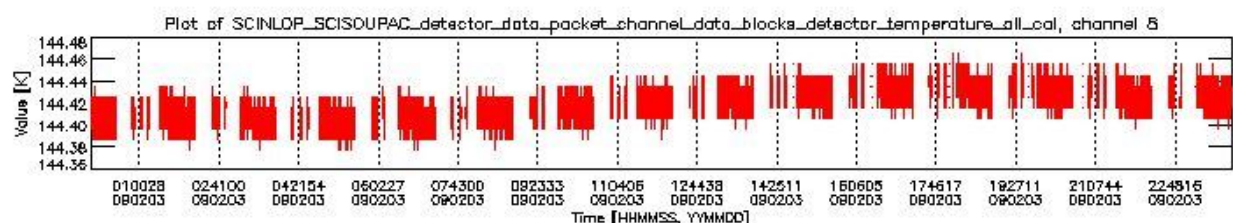
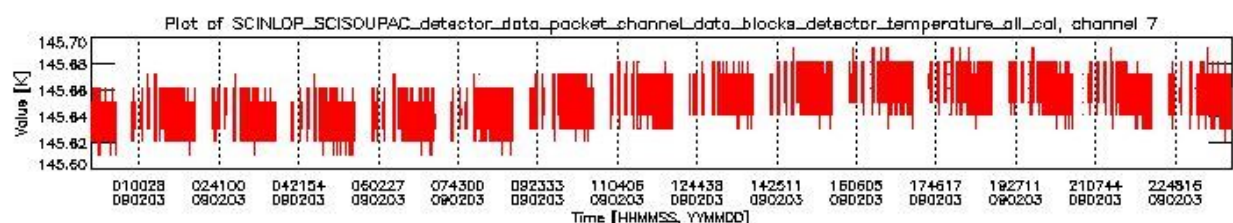
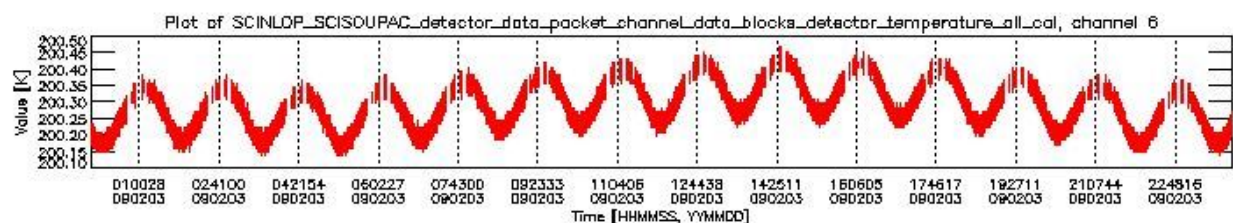
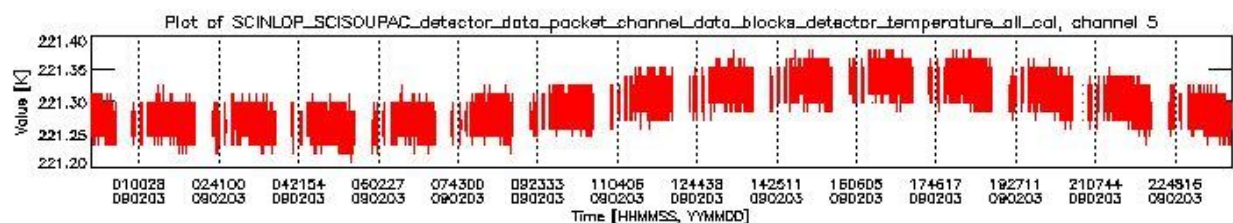
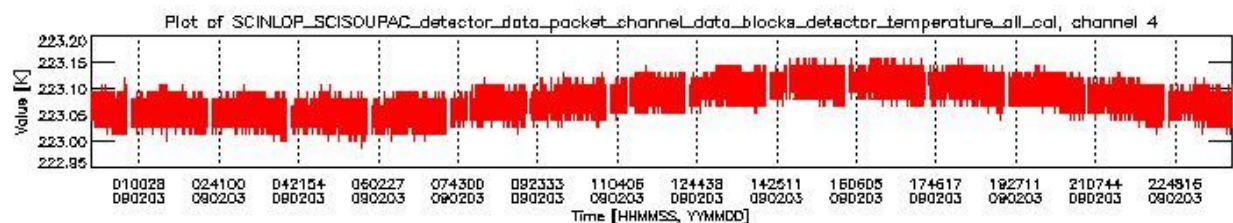
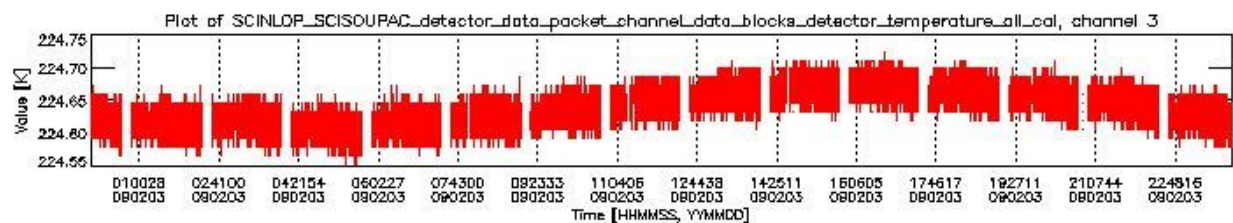
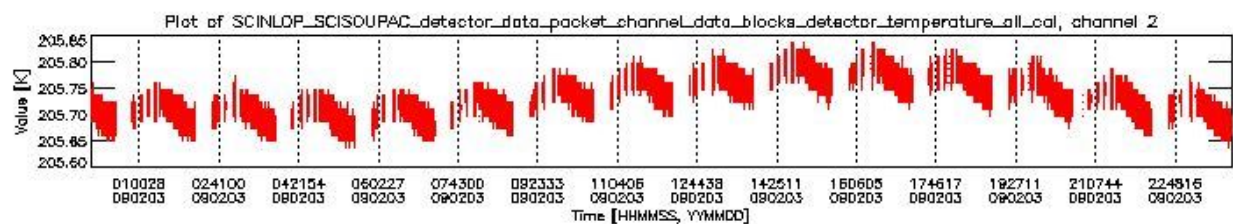
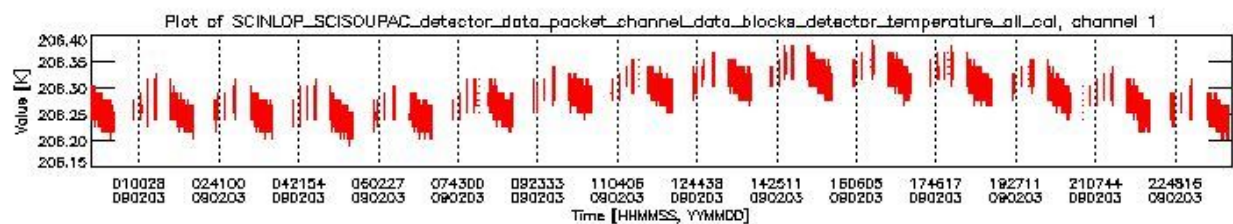
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090203\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090203\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090203\_3.PNG

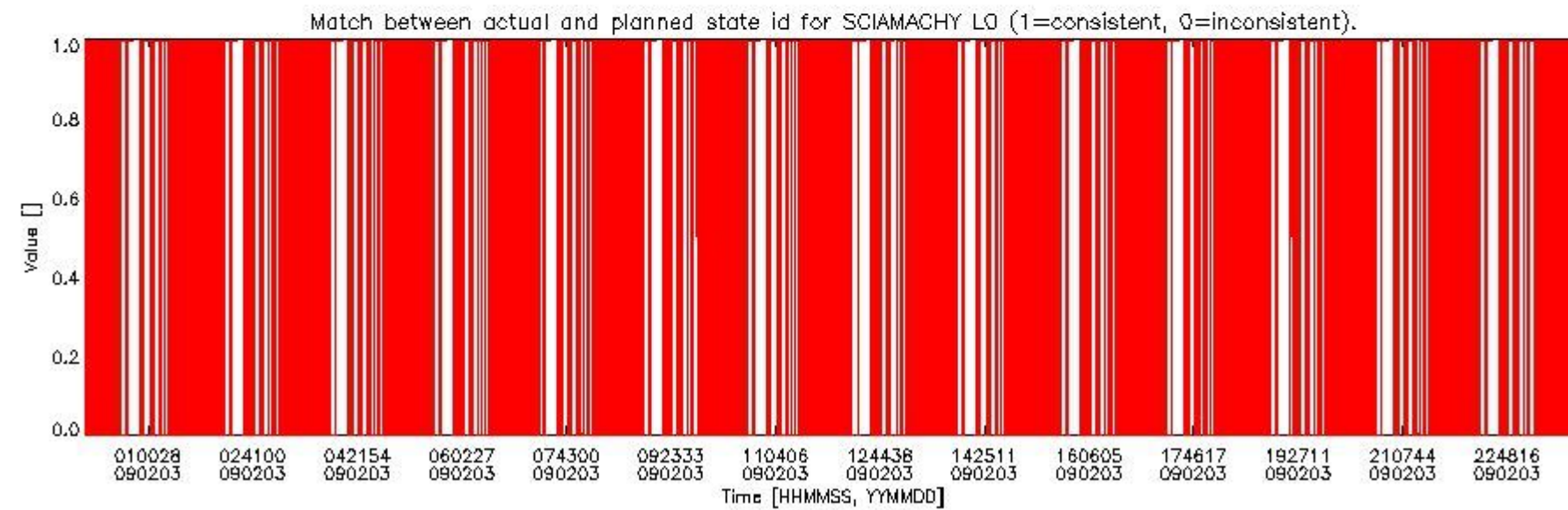
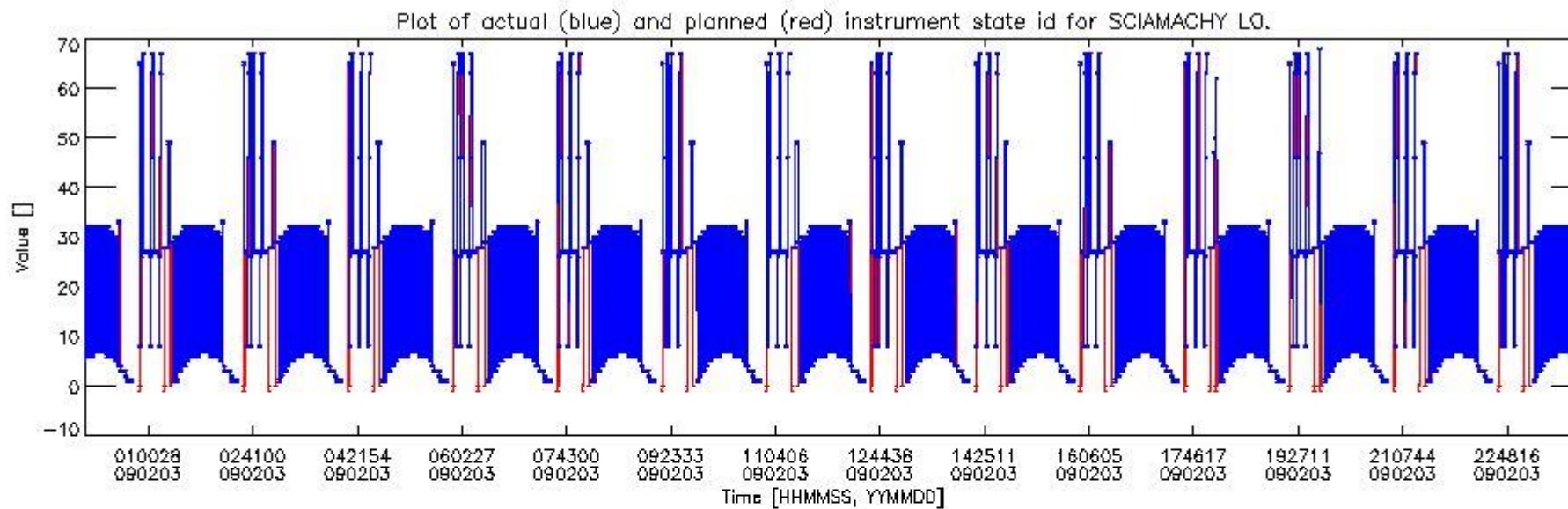


### 0.3 State monitoring

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: **55849**

#	Actual time	Actual value	Planned time	Planned value
0	03FEB2009 00:00:51.876484	32	03FEB2009 00:00:51.876484	6
1	03FEB2009 00:00:52.501506	32	03FEB2009 00:00:52.501506	6
2	03FEB2009 00:00:52.876478	32	03FEB2009 00:00:52.876478	6
3	03FEB2009 00:00:53.251491	32	03FEB2009 00:00:53.251491	6
4	03FEB2009 00:00:53.813991	32	03FEB2009 00:00:53.813991	6
5	03FEB2009 00:00:54.189004	32	03FEB2009 00:00:54.189004	6
6	03FEB2009 00:00:54.563977	32	03FEB2009 00:00:54.563977	6
7	03FEB2009 00:00:54.938990	32	03FEB2009 00:00:54.938990	6
8	03FEB2009 00:00:55.501489	32	03FEB2009 00:00:55.501489	6
9	03FEB2009 00:00:55.876502	32	03FEB2009 00:00:55.876502	6
10	03FEB2009 00:00:56.251475	32	03FEB2009 00:00:56.251475	6
11	03FEB2009 00:00:56.626488	32	03FEB2009 00:00:56.626488	6
12	03FEB2009 00:00:56.876497	32	03FEB2009 00:00:56.876497	6
13	03FEB2009 00:00:57.188988	32	03FEB2009 00:00:57.188988	6
14	03FEB2009 00:00:57.564001	32	03FEB2009 00:00:57.564001	6
15	03FEB2009 00:00:57.939014	32	03FEB2009 00:00:57.939014	6
16	03FEB2009 00:00:58.313987	32	03FEB2009 00:00:58.313987	6
17	03FEB2009 00:00:58.876486	32	03FEB2009 00:00:58.876486	6
18	03FEB2009 00:00:59.251499	32	03FEB2009 00:00:59.251499	6
19	03FEB2009 00:00:59.626512	32	03FEB2009 00:00:59.626512	6
...	...	...	...	...

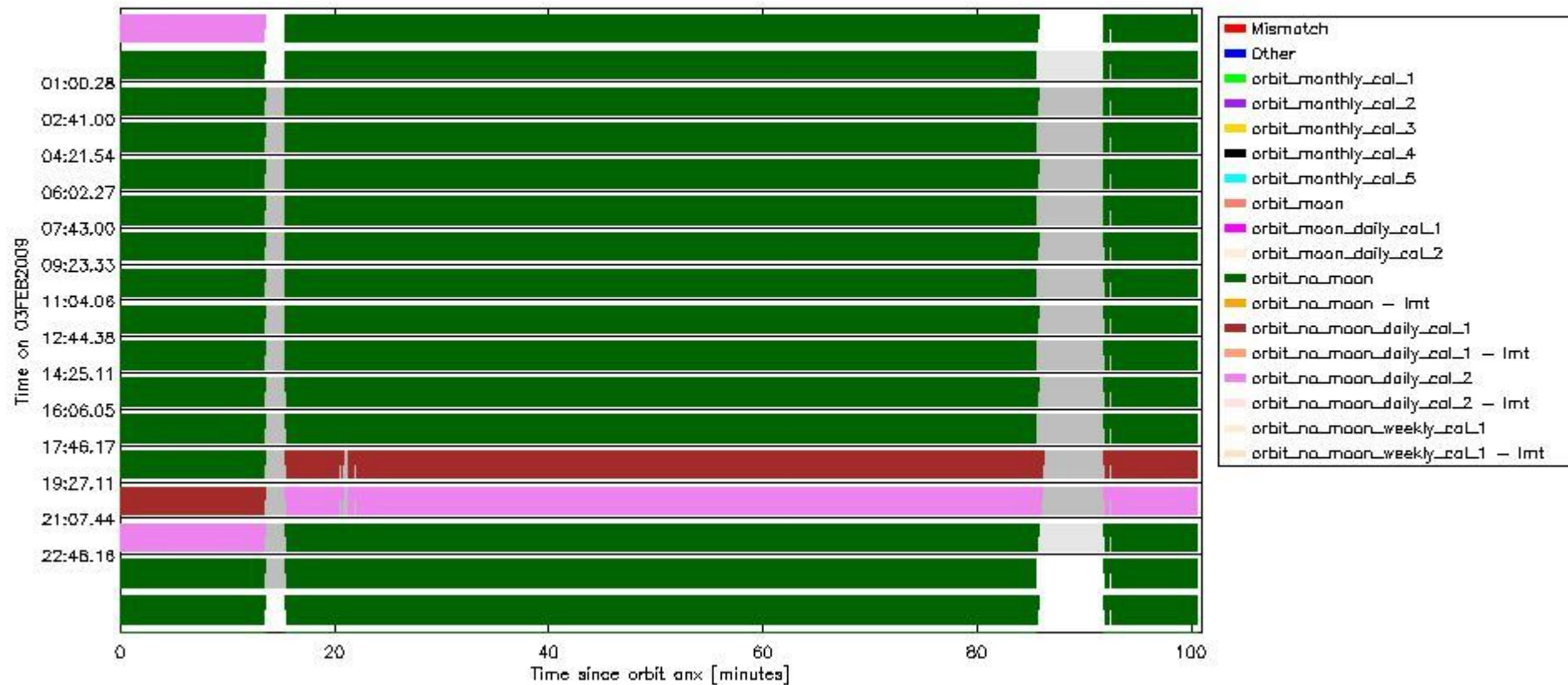


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090203\_5.PNG

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 Q3FEB2009.  
 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\_20090203\_6.PNG

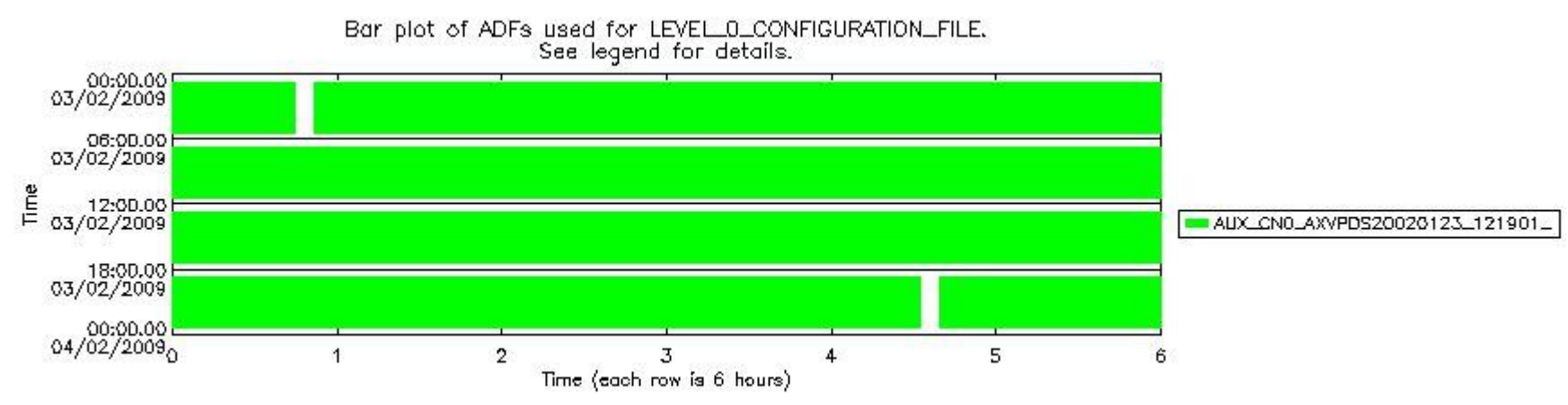
## 0.4 ADF monitoring

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

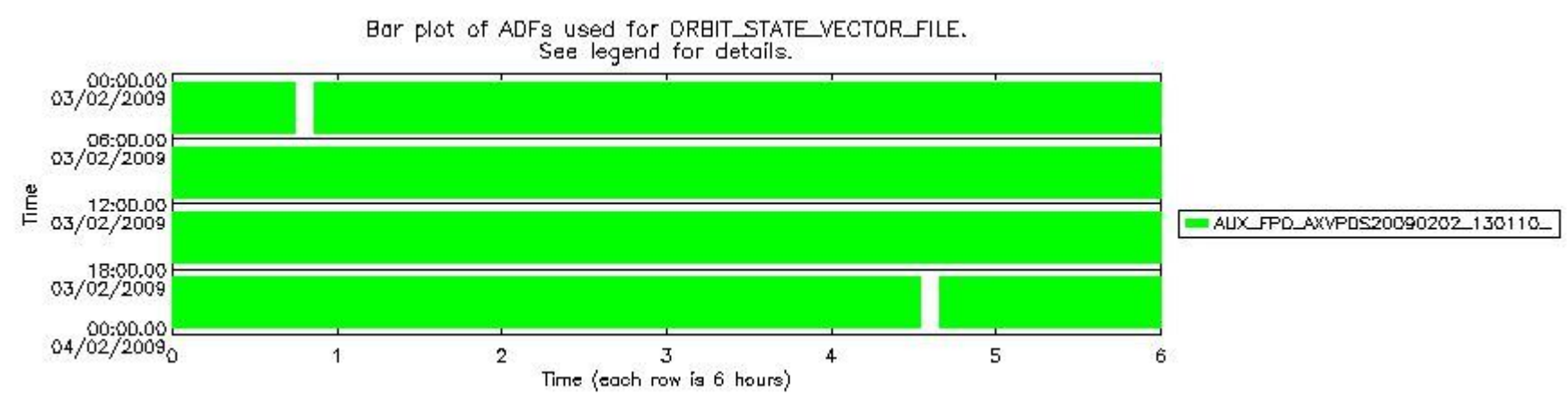
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

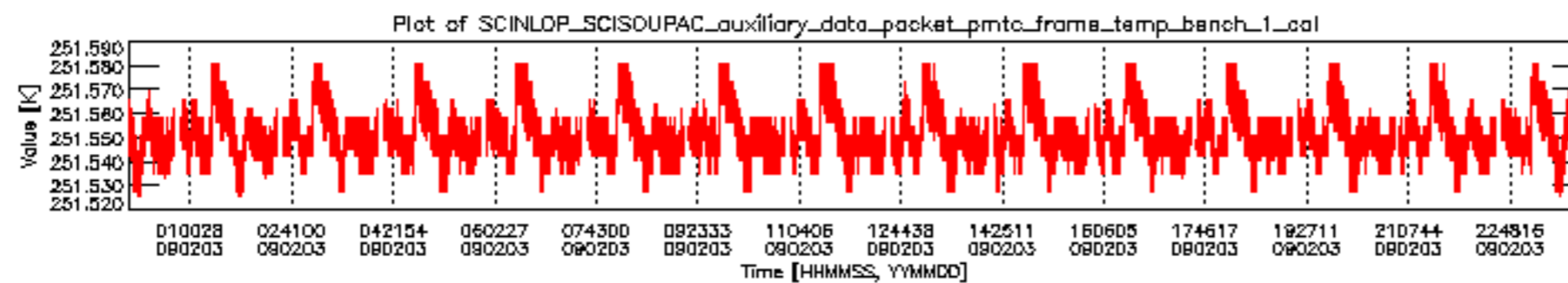
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090202_130110_20090201_184944_20090211_201559



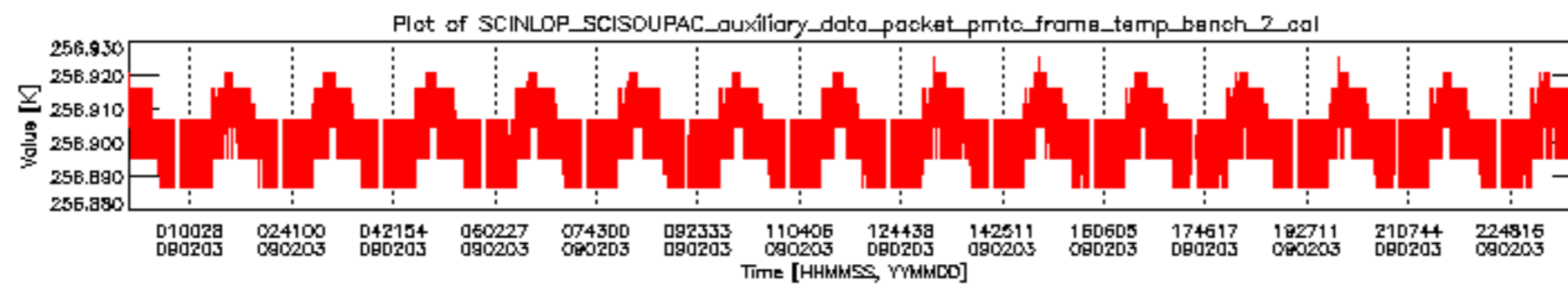
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090203\_7.PNG

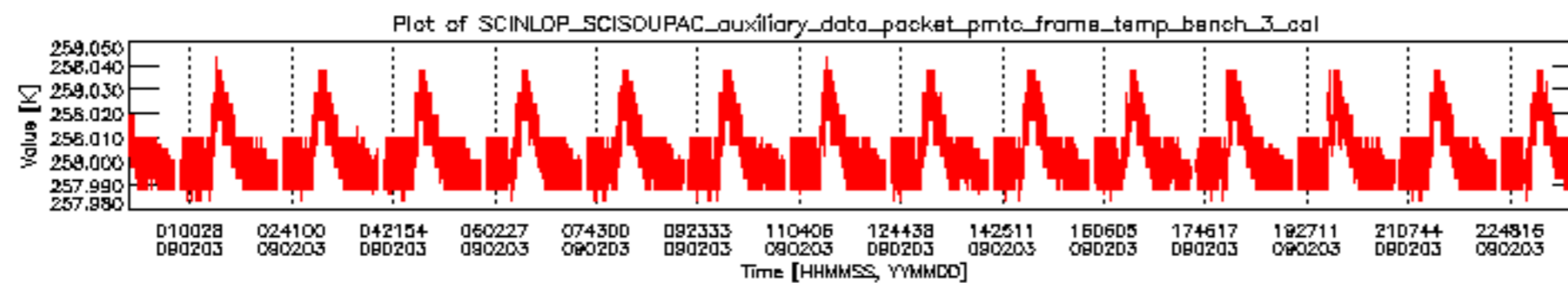


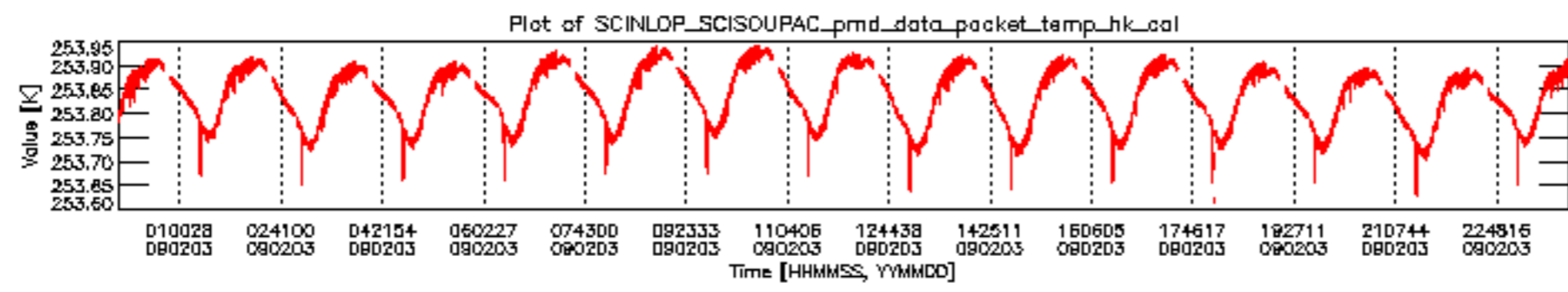
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090203\_8.PNG

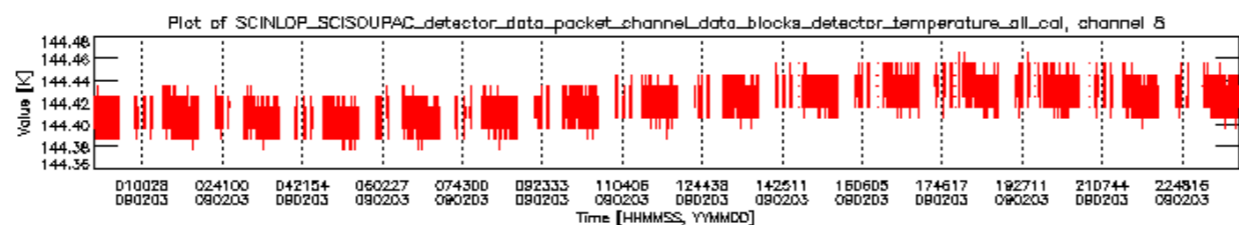
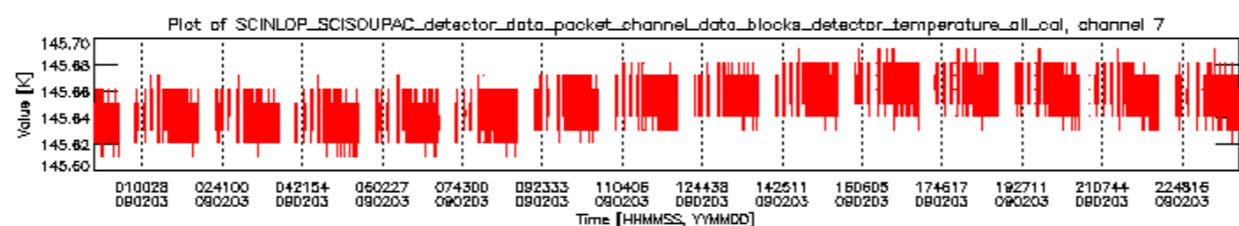
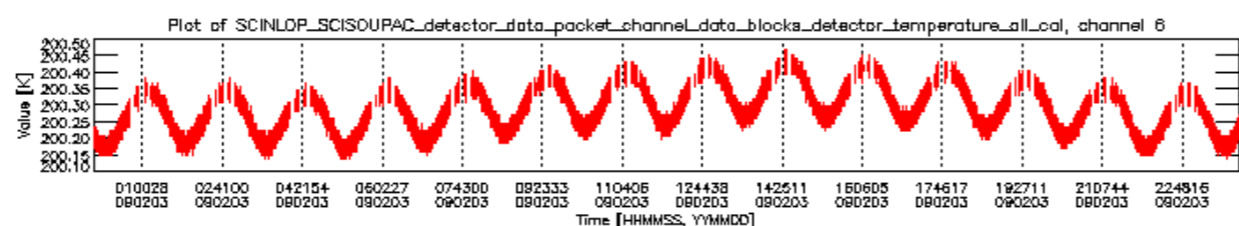
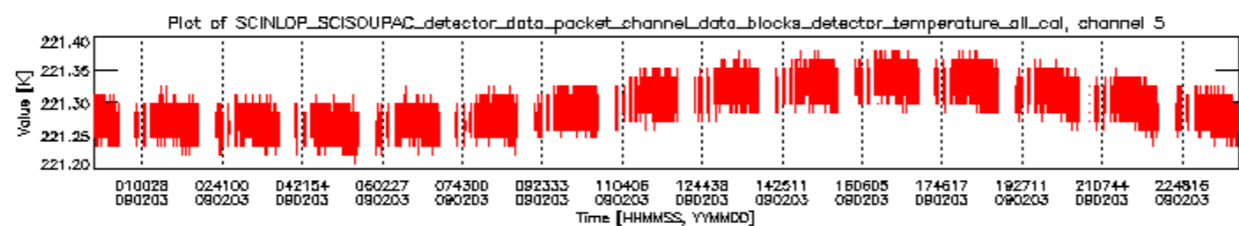
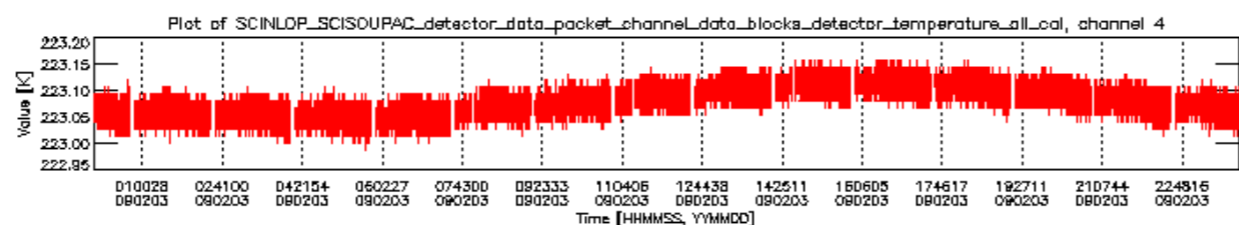
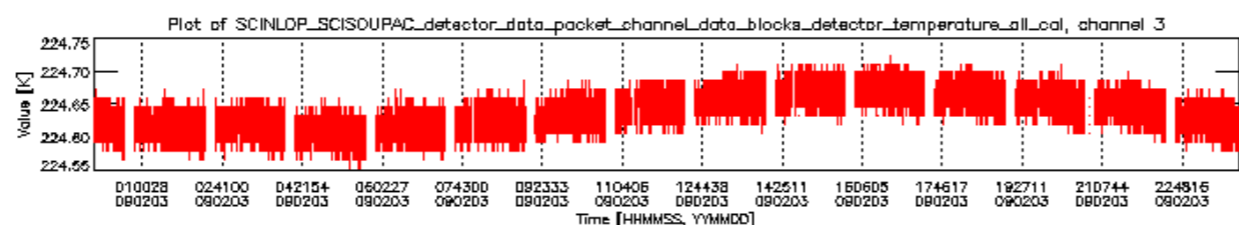
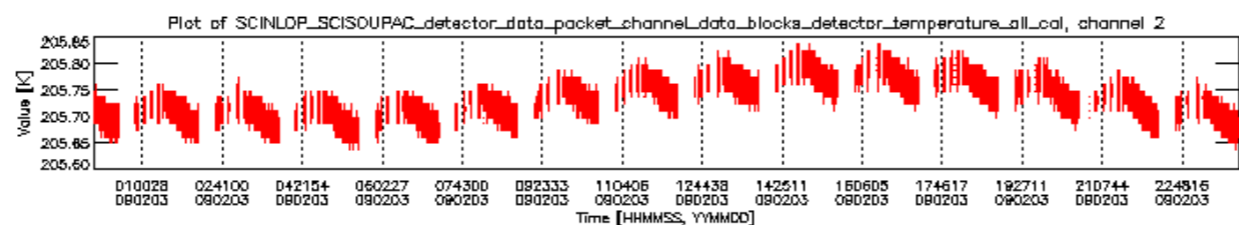
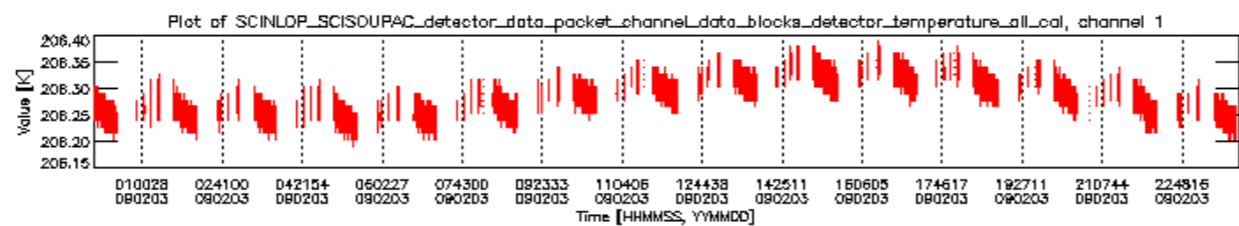


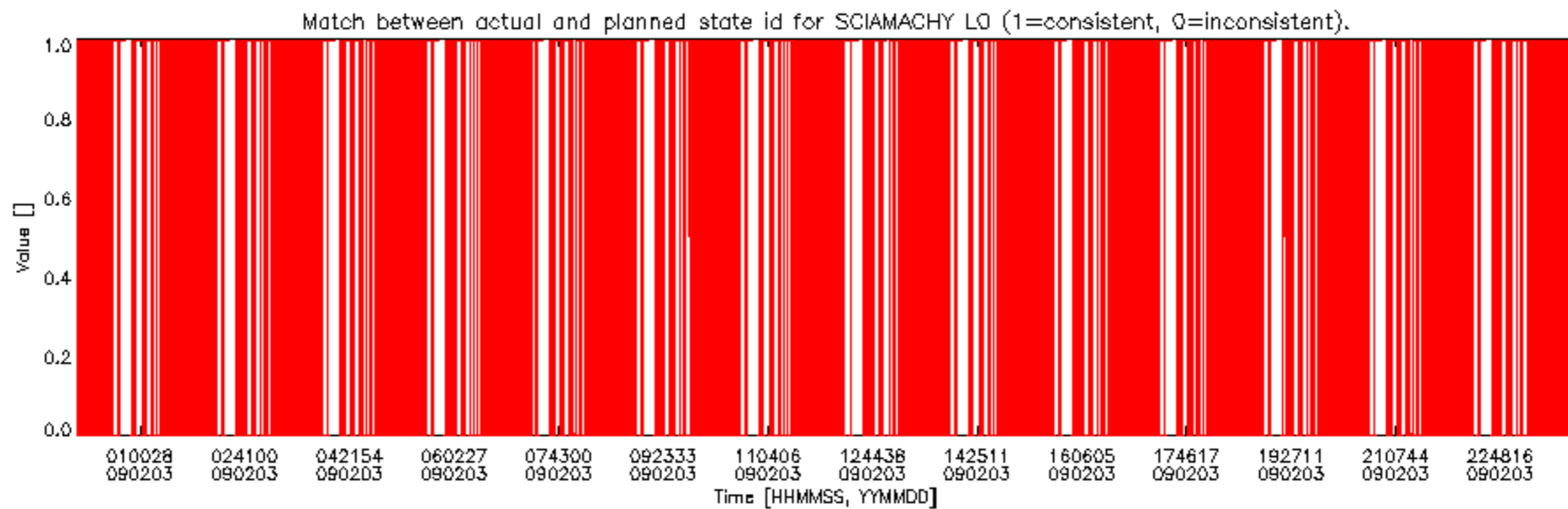
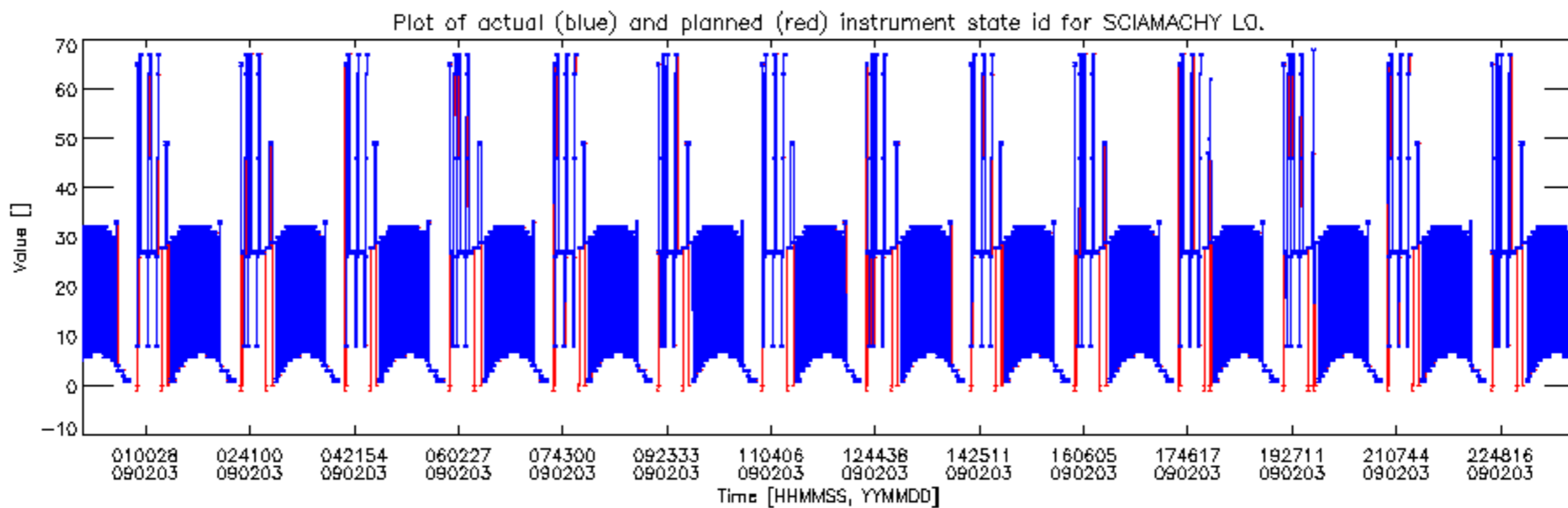












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 03FEB2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

