

## 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	27MAR2009 05:47:59
Data source version	KSPT_L0/4303-N
Processing scope for products	23MAR2009 00:00:00 to 24MAR2009 00:00:00
Start time of first product within scope	22MAR2009 22:58:42
Stop time of last product within scope	24MAR2009 00:09:31
Total number of level 0 products	17
Number of level 0 products with errors	2

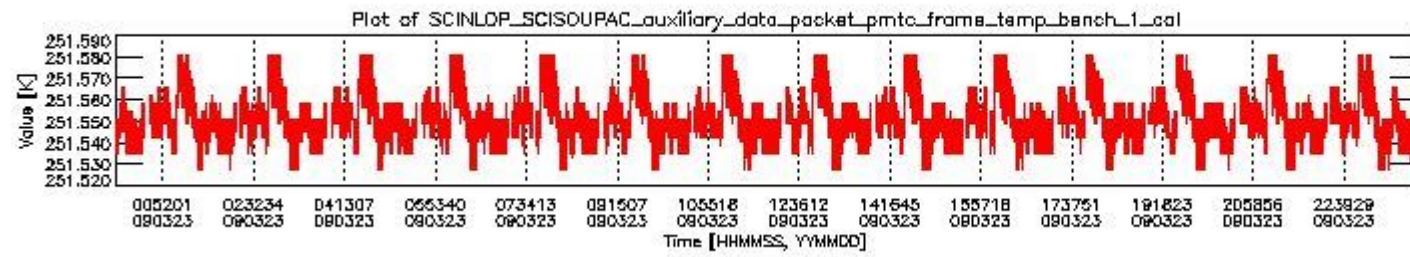
### 0.1.2 Summary per product

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

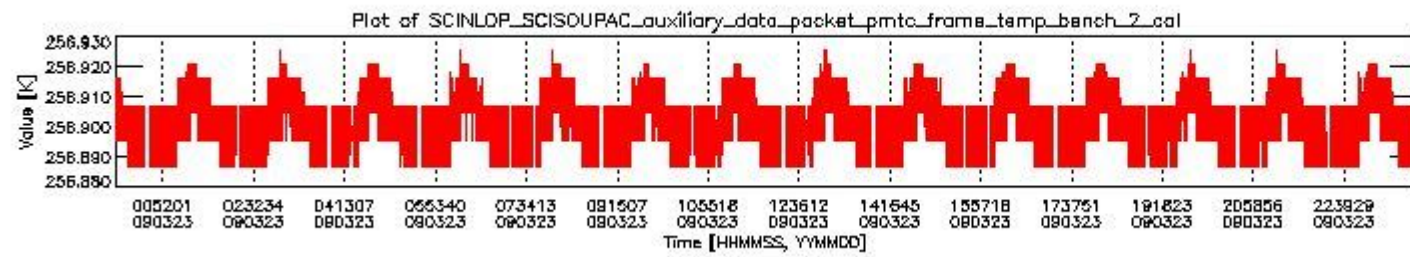
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090322_225842_000060712077_00287_36914_8800.N1	22MAR2009 22:58:42	23MAR2009 00:39:53	0	0	0	0	0
1	SCI_NL__OPNPDE20090323_003953_000058672077_00288_36915_8801.N1	23MAR2009 00:39:53	23MAR2009 02:17:41	0	0	0	0	0
2	SCI_NL__OPNPDE20090323_021741_000044472077_00289_36916_8802.N1	23MAR2009 02:17:41	23MAR2009 03:31:48	0	0	0	0	0
3	SCI_NL__OPNPDE20090323_033148_000061042077_00290_36917_8803.N1	23MAR2009 03:31:48	23MAR2009 05:13:32	0	0	0	0	0
4	SCI_NL__OPNPDE20090323_051332_000060362077_00291_36918_8804.N1	23MAR2009 05:13:32	23MAR2009 06:54:07	0	0	0	0	0
5	SCI_NL__OPNPDK20090323_065407_000040452077_00292_36919_1034.N1	23MAR2009 06:54:07	23MAR2009 08:01:32	0	0	0	0	0
6	SCI_NL__OPNPDK20090323_080132_000061602077_00293_36920_1035.N1	23MAR2009 08:01:32	23MAR2009 09:44:12	0	0	0	0	0
7	SCI_NL__OPNPDK20090323_094303_000059802077_00294_36921_1036.N1	23MAR2009 09:43:03	23MAR2009 11:22:43	0	0	0	0	0
8	SCI_NL__OPNPDK20090323_112147_000060912077_00295_36922_1037.N1	23MAR2009 11:21:47	23MAR2009 13:03:18	1	1	0	0	0
9	SCI_NL__OPNPDK20090323_130210_000058552077_00296_36923_1038.N1	23MAR2009 13:02:10	23MAR2009 14:39:45	0	0	0	0	0
10	SCI_NL__OPNPDK20090323_143849_000003052077_00297_36924_1039.N1	23MAR2009 14:38:49	23MAR2009 14:43:54	0	0	0	0	0
11	SCI_NL__OPNPDK20090323_144354_000056622077_00297_36924_1040.N1	23MAR2009 14:43:54	23MAR2009 16:18:16	1	1	0	0	0
12	SCI_NL__OPNPDK20090323_161612_000059472077_00298_36925_1041.N1	23MAR2009 16:16:12	23MAR2009 17:55:19	0	0	0	0	0
13	SCI_NL__OPNPDK20090323_175423_000059952077_00299_36926_1042.N1	23MAR2009 17:54:23	23MAR2009 19:34:18	0	0	0	0	0
14	SCI_NL__OPNPDE20090323_193418_000042792077_00300_36927_8805.N1	23MAR2009 19:34:18	23MAR2009 20:45:37	0	0	0	0	0
15	SCI_NL__OPNPDE20090323_204453_000061672077_00300_36927_8806.N1	23MAR2009 20:44:53	23MAR2009 22:27:41	0	0	0	0	0
16	SCI_NL__OPNPDE20090323_222657_000061552077_00301_36928_8807.N1	23MAR2009 22:26:57	24MAR2009 00:09:31	0	0	0	0	0

## 0.2 Product Quality Indicators

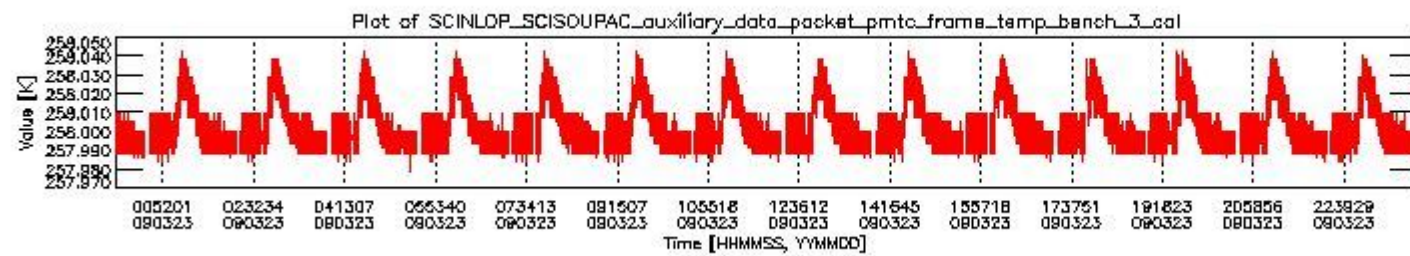
This section shows information about product quality, currently temperatures.



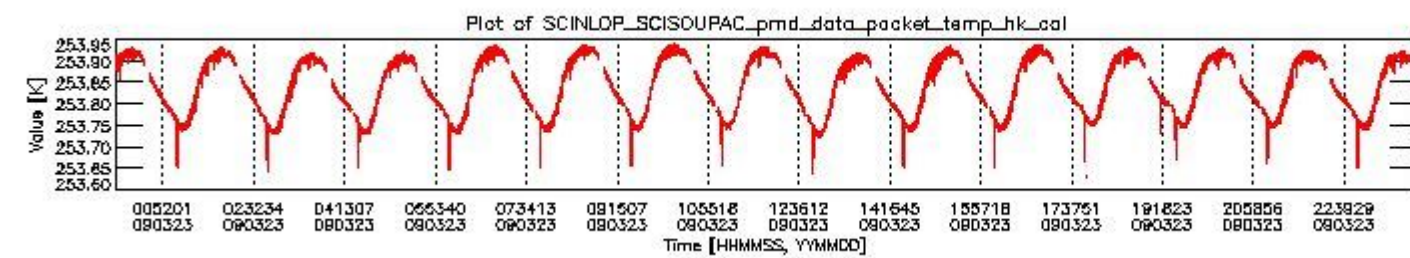
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090323\_0.PNG



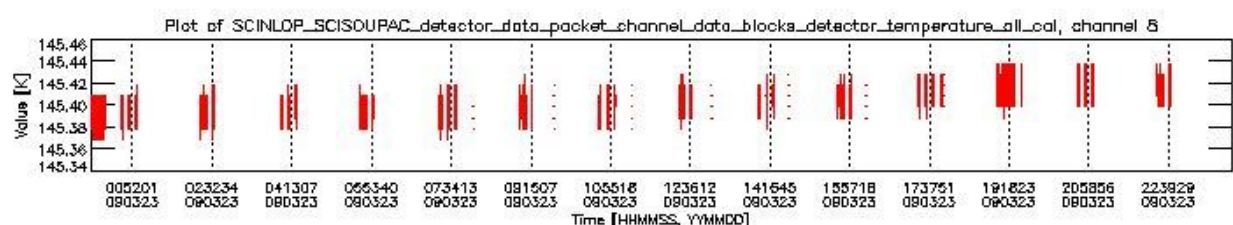
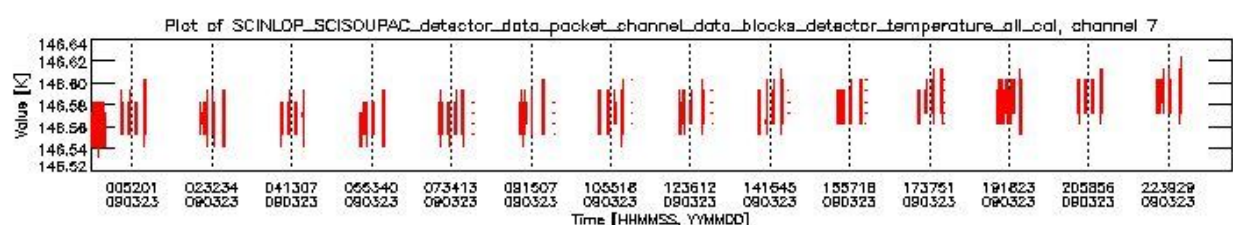
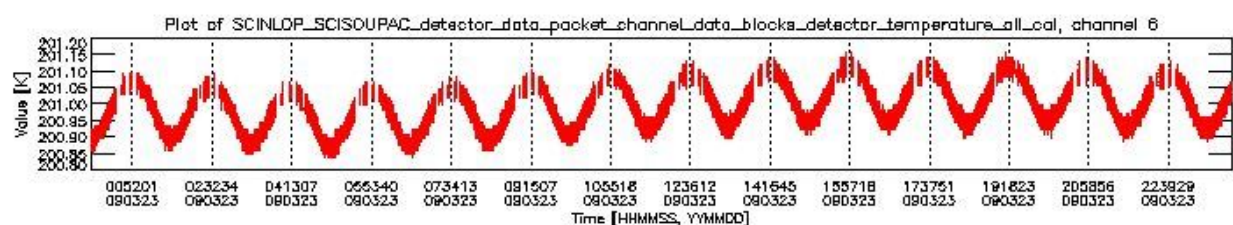
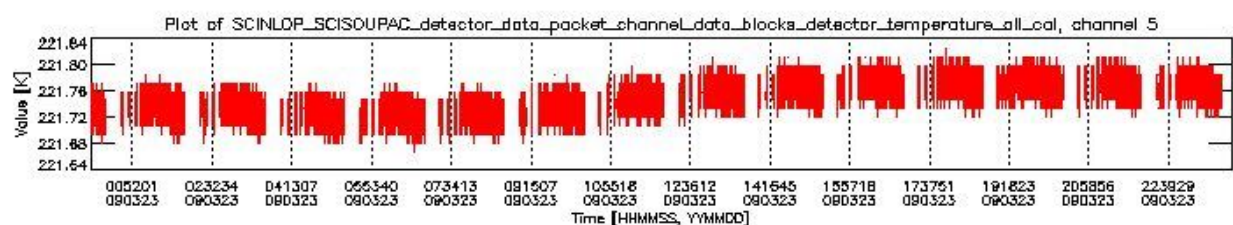
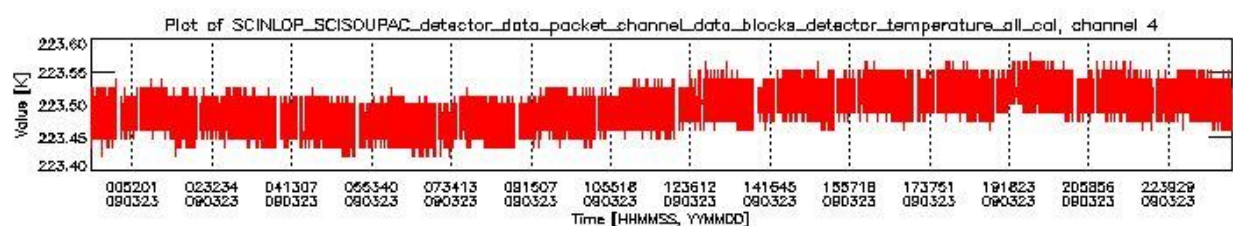
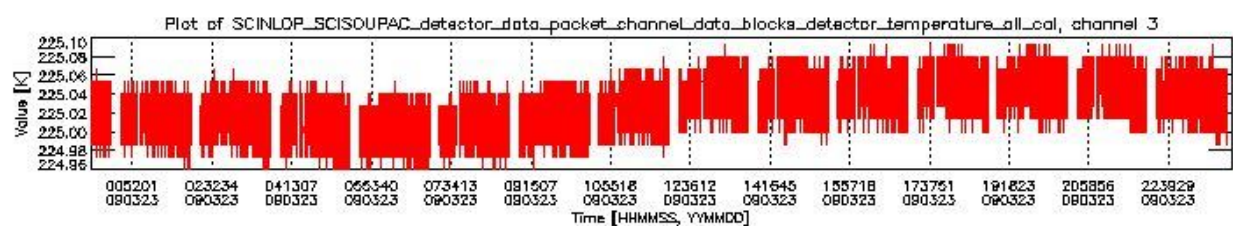
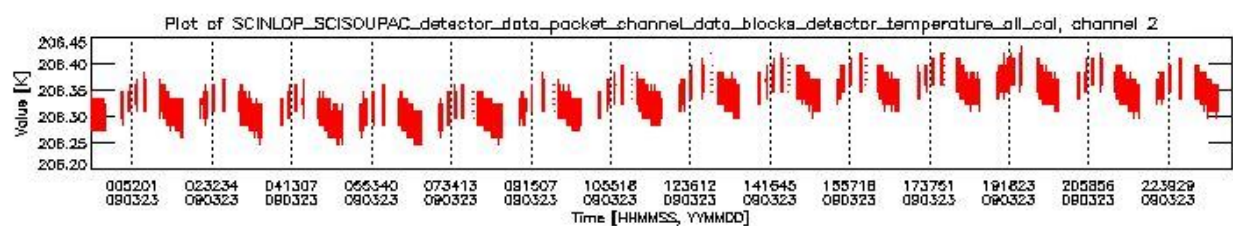
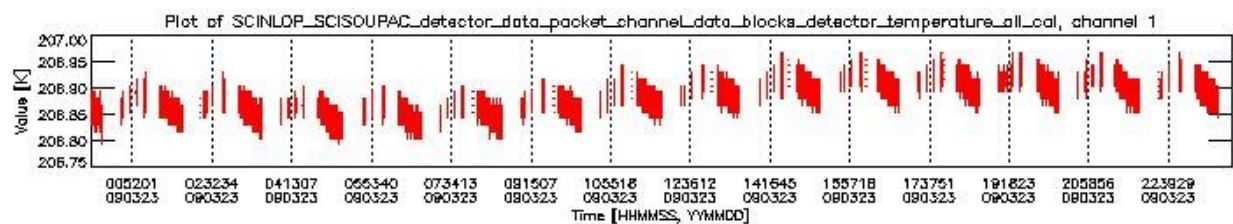
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090323\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090323\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090323\_3.PNG

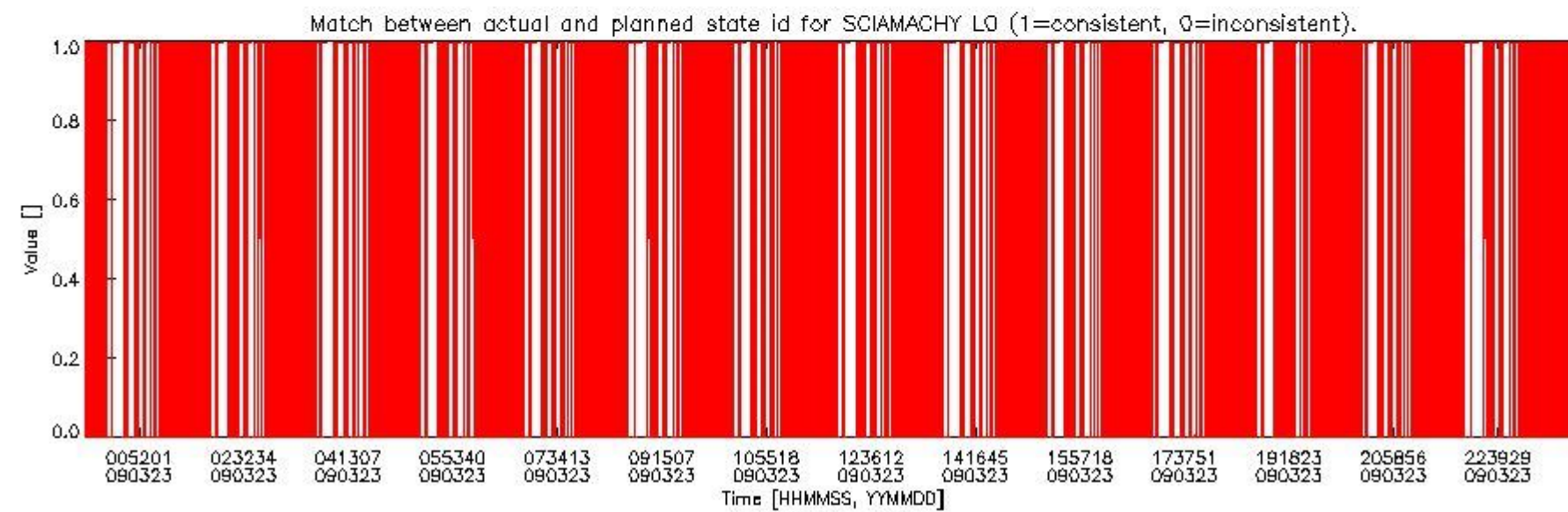
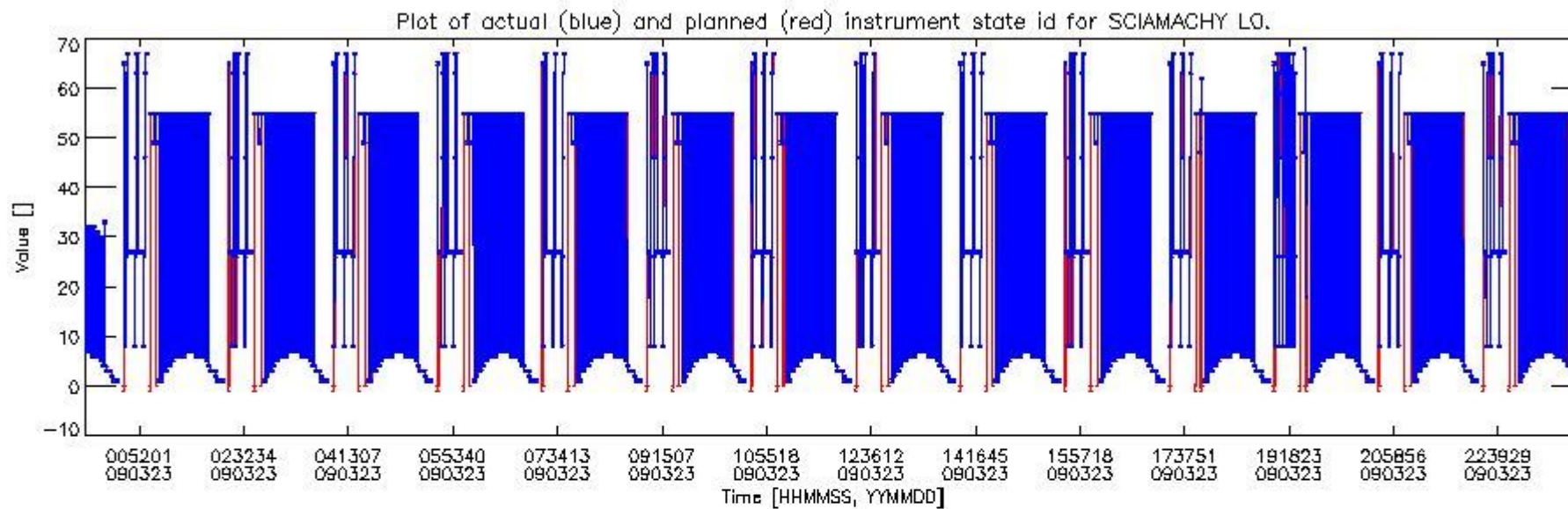


### 0.3 State monitoring

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: **52429**

#	Actual time	Actual value	Planned time	Planned value
0	23MAR2009 00:00:15.328744	7	23MAR2009 00:00:15.328744	32
1	23MAR2009 00:00:15.703757	7	23MAR2009 00:00:15.703757	32
2	23MAR2009 00:00:15.953766	7	23MAR2009 00:00:15.953766	32
3	23MAR2009 00:00:16.203734	7	23MAR2009 00:00:16.203734	32
4	23MAR2009 00:00:16.453743	7	23MAR2009 00:00:16.453743	32
5	23MAR2009 00:00:16.703752	7	23MAR2009 00:00:16.703752	32
6	23MAR2009 00:00:16.953760	7	23MAR2009 00:00:16.953760	32
7	23MAR2009 00:00:17.203769	7	23MAR2009 00:00:17.203769	32
8	23MAR2009 00:00:17.453738	7	23MAR2009 00:00:17.453738	32
9	23MAR2009 00:00:17.703746	7	23MAR2009 00:00:17.703746	32
10	23MAR2009 00:00:17.953755	7	23MAR2009 00:00:17.953755	32
11	23MAR2009 00:00:18.203764	7	23MAR2009 00:00:18.203764	32
12	23MAR2009 00:00:18.453772	7	23MAR2009 00:00:18.453772	32
13	23MAR2009 00:00:18.703741	7	23MAR2009 00:00:18.703741	32
14	23MAR2009 00:00:18.953750	7	23MAR2009 00:00:18.953750	32
15	23MAR2009 00:00:19.203758	7	23MAR2009 00:00:19.203758	32
16	23MAR2009 00:00:19.453767	7	23MAR2009 00:00:19.453767	32
17	23MAR2009 00:00:19.703735	7	23MAR2009 00:00:19.703735	32
18	23MAR2009 00:00:19.953744	7	23MAR2009 00:00:19.953744	32
19	23MAR2009 00:00:20.203753	7	23MAR2009 00:00:20.203753	32
	...	...	...	...

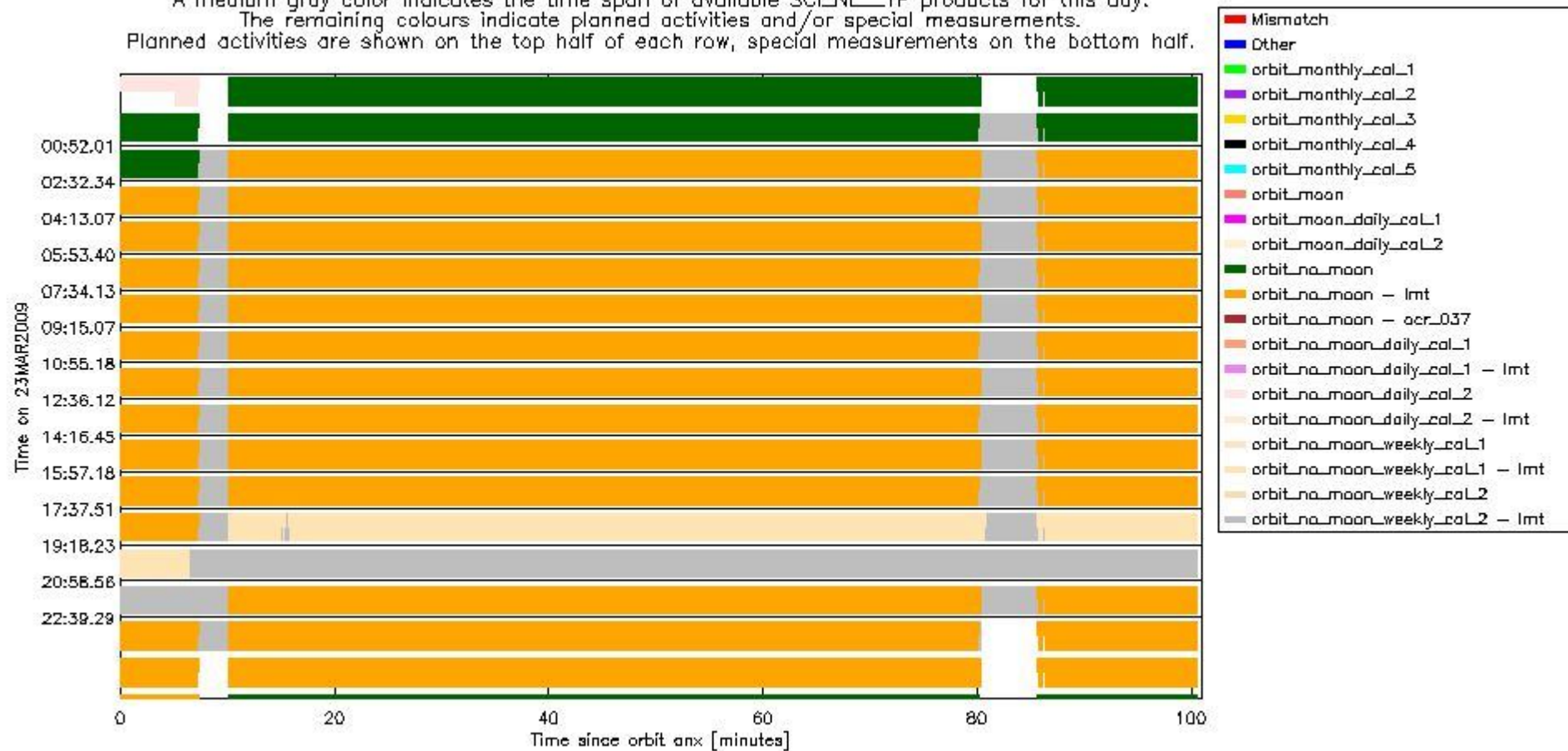


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090323\_5.PNG

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 23MAR2009.  
 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\_20090323\_6.PNG

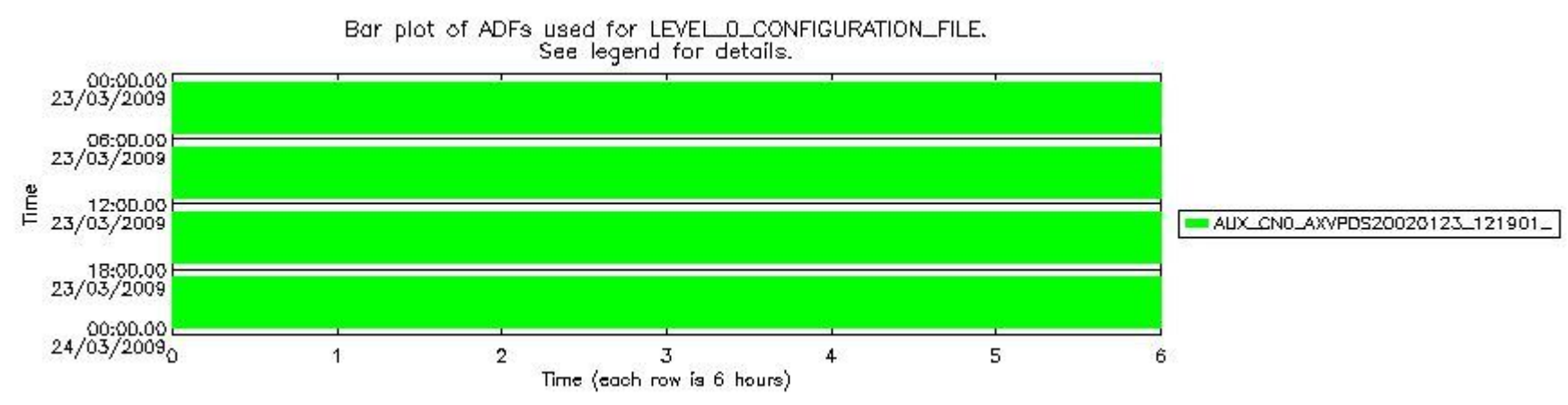
## 0.4 ADF monitoring

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

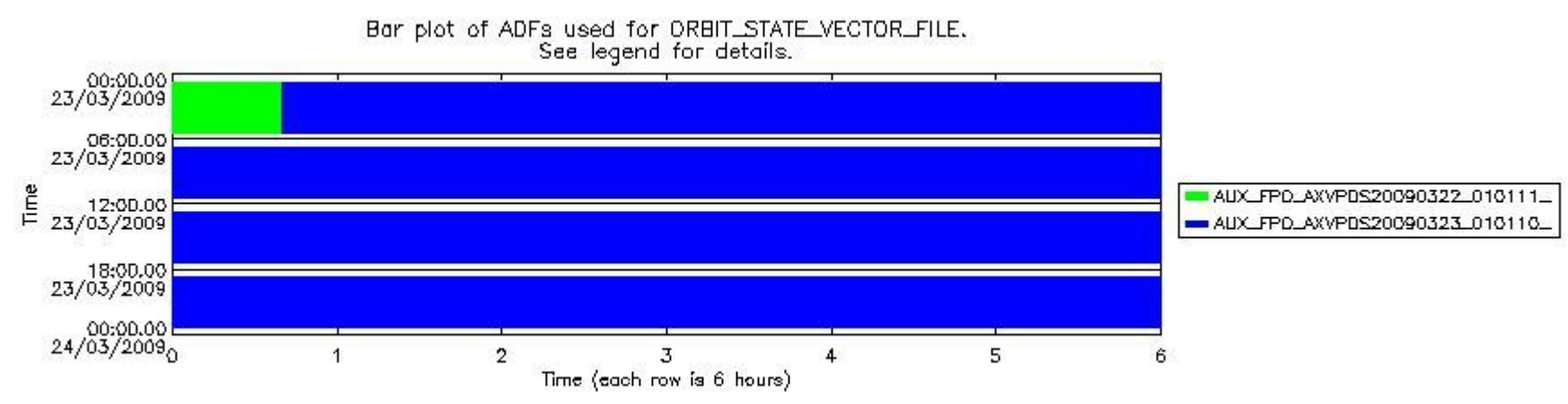
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

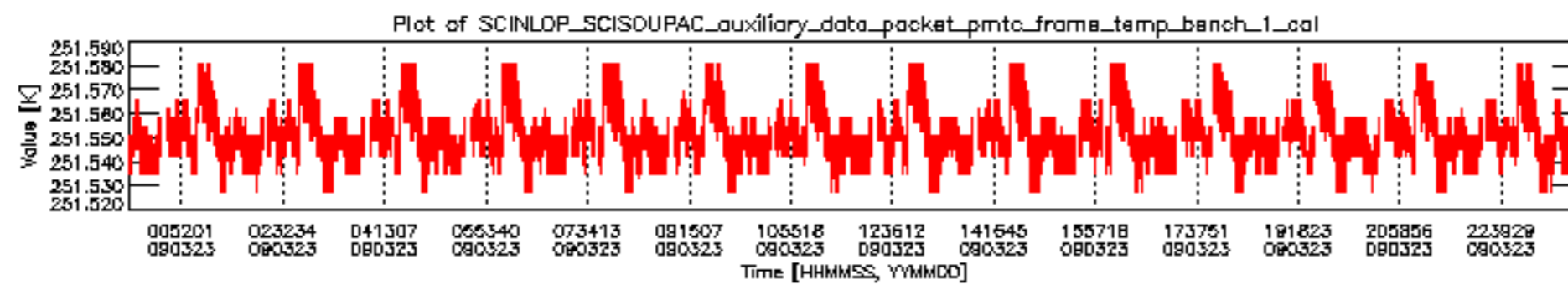
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20090322_010111_20090321_184107_20090331_200720</b>
2	<b>AUX_FPO_AXVPDS20090323_010110_20090322_195006_20090401_211619</b>



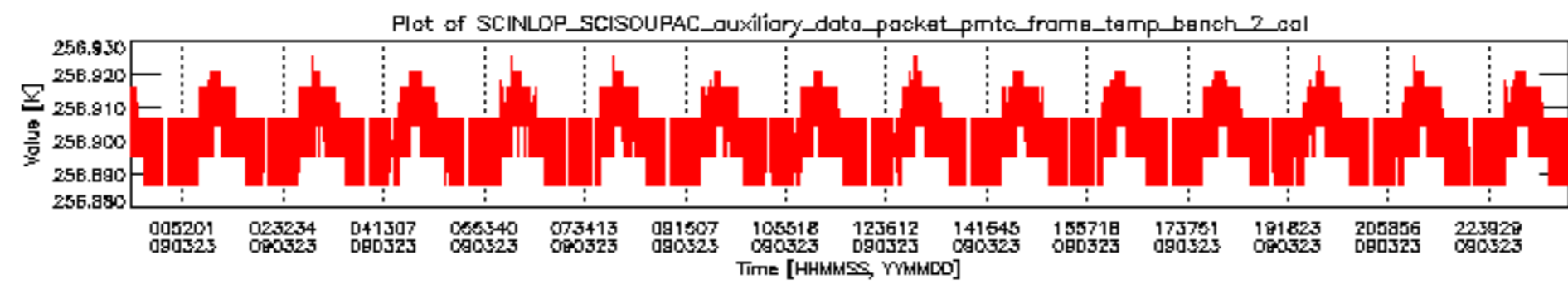
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090323\_7.PNG

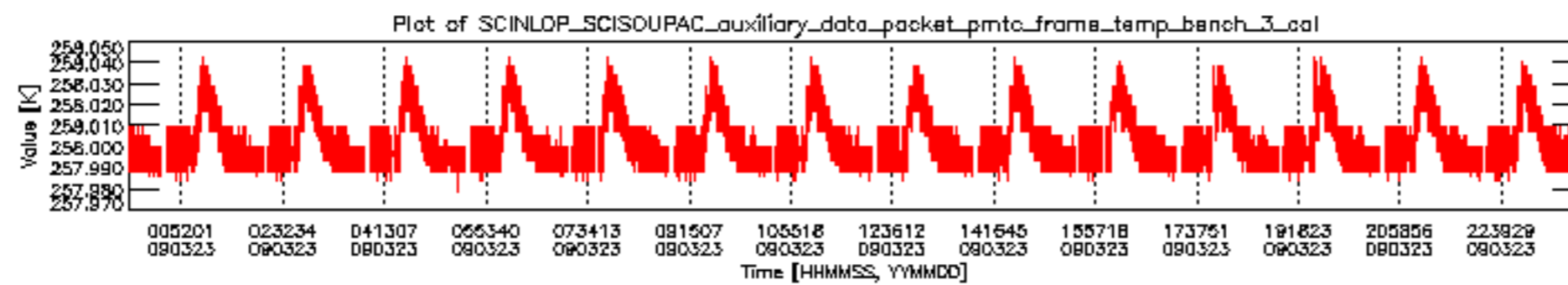


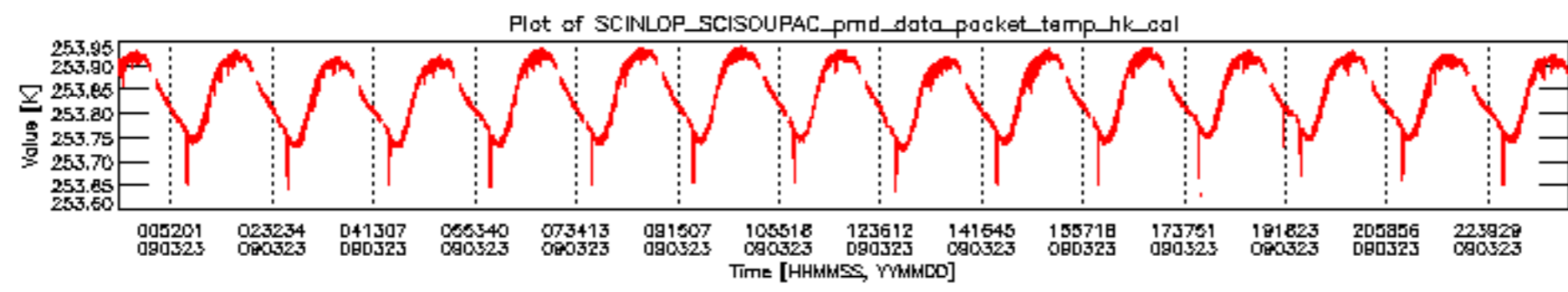
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090323\_8.PNG

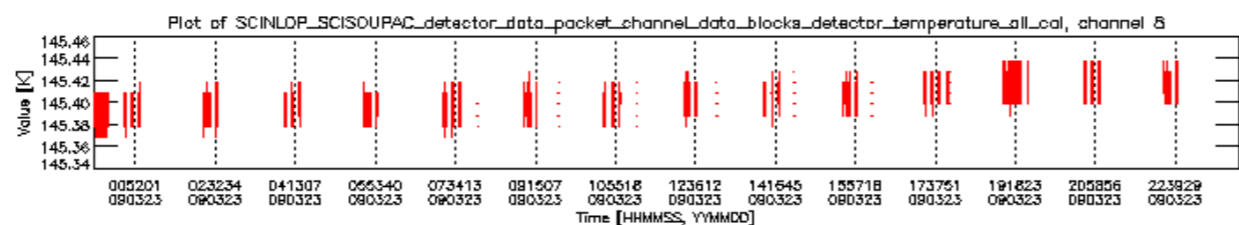
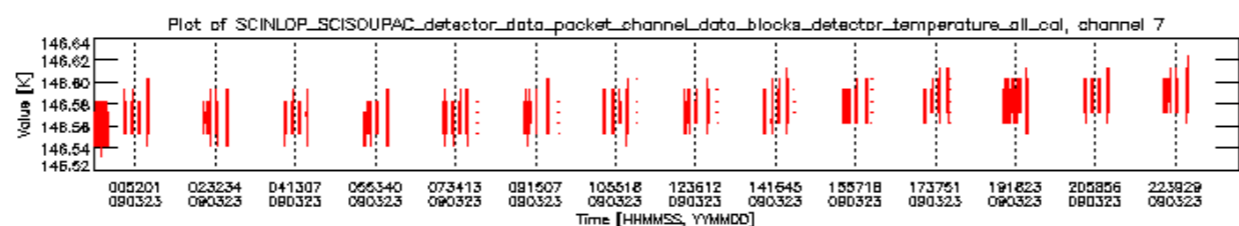
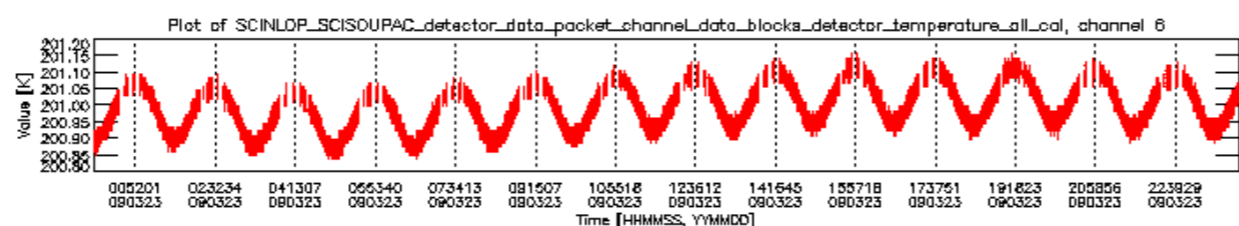
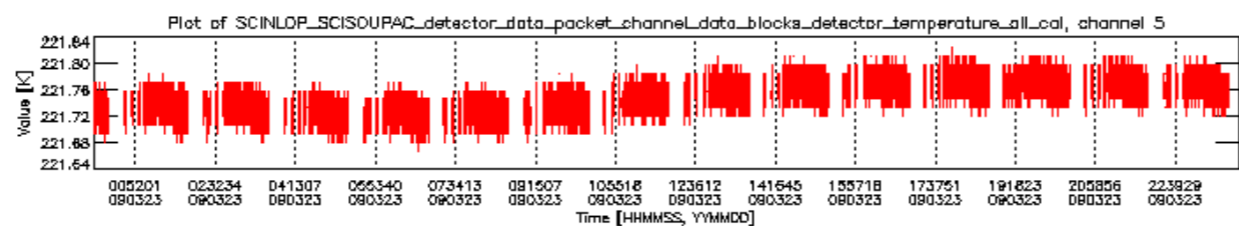
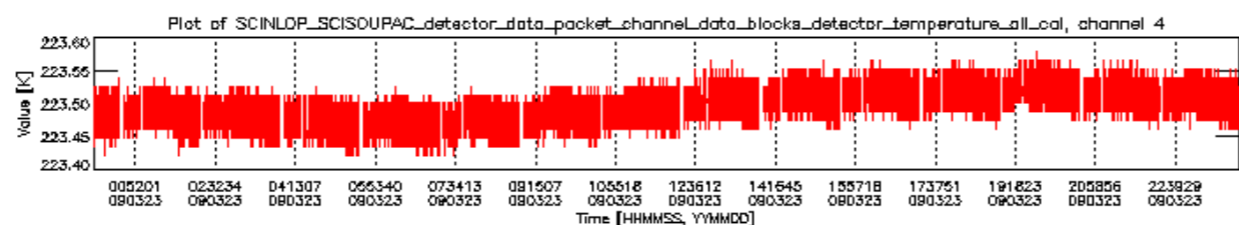
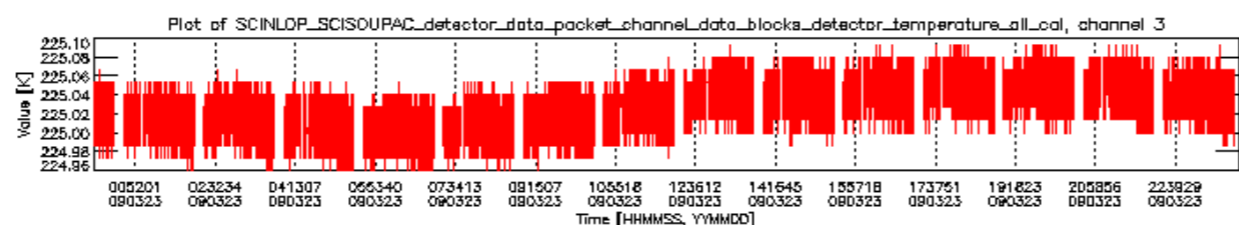
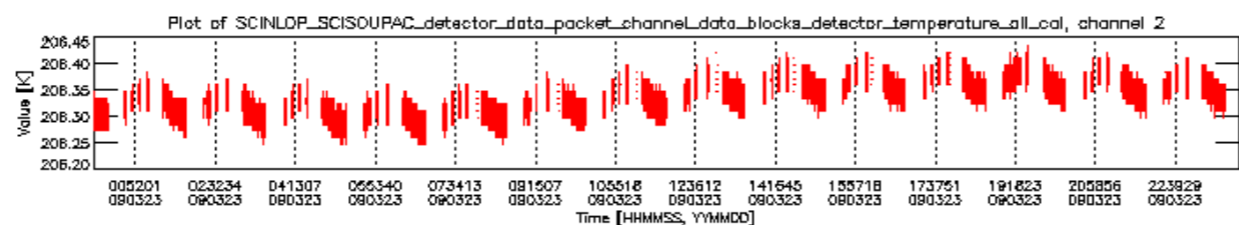
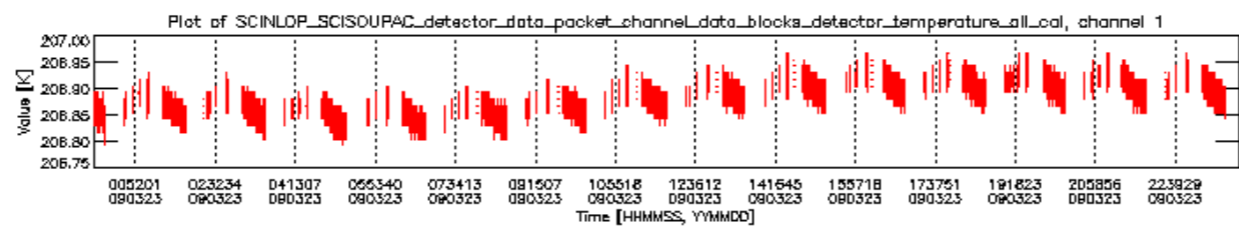


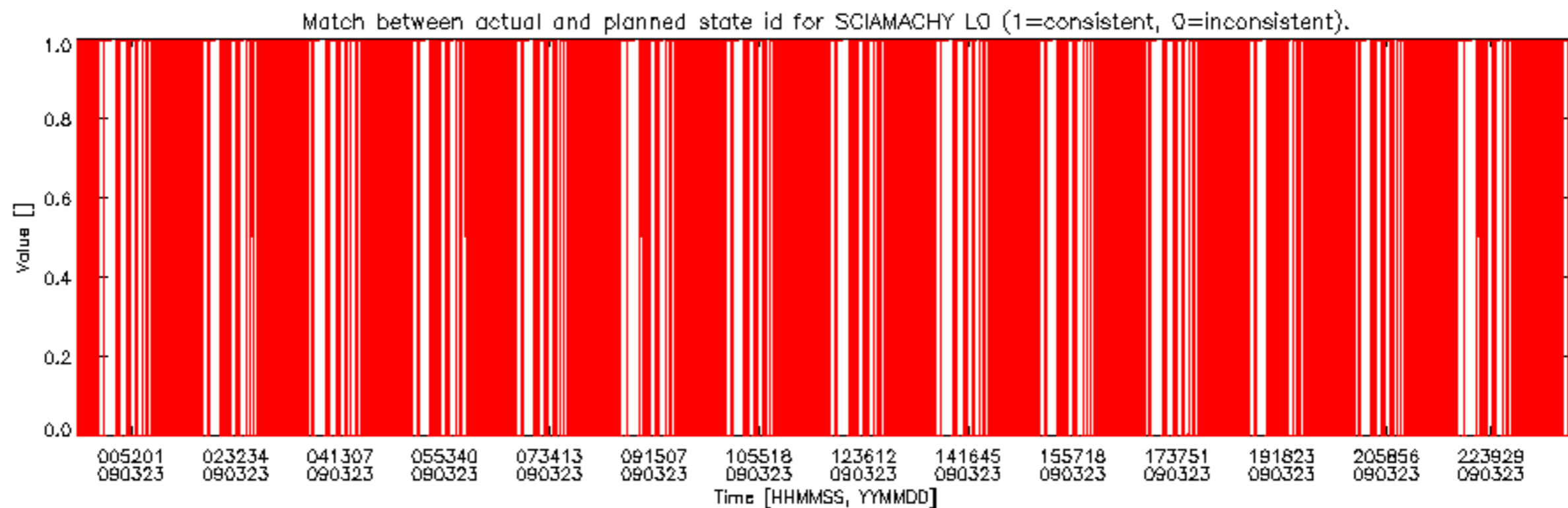
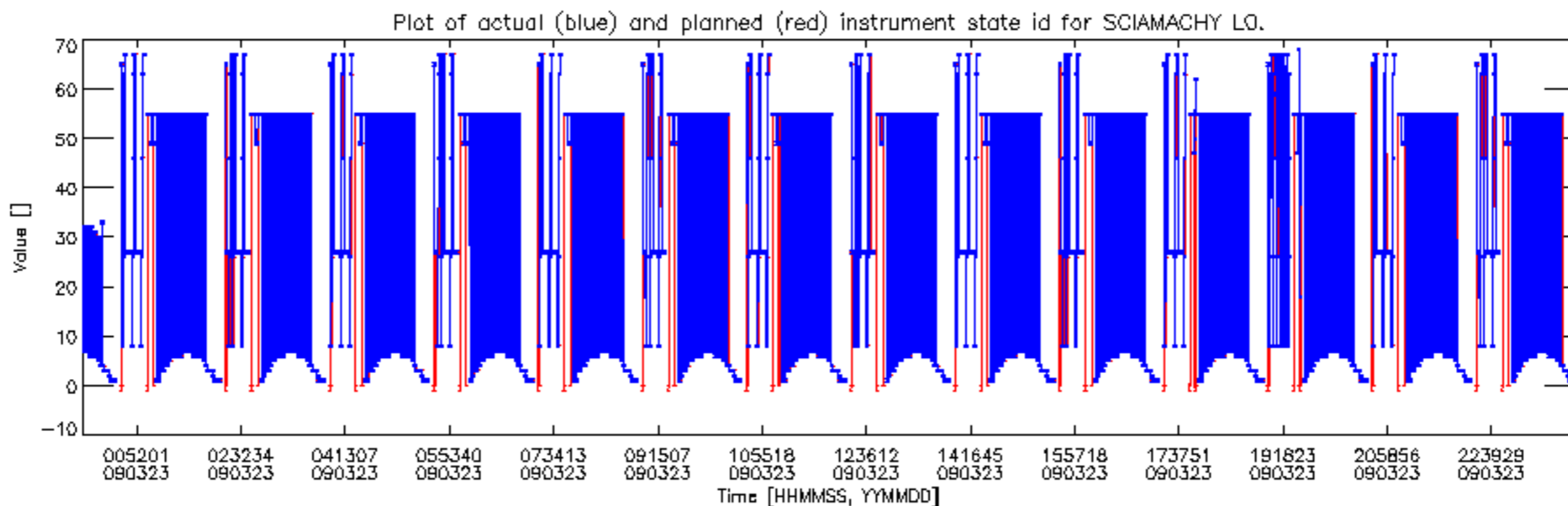












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 23MAR2009.  
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