

# 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	11FEB2009 06:28:03
Data source version	KSPT_L0/4303-N
Processing scope for products	07FEB2009 00:00:00 to 08FEB2009 00:00:00
Start time of first product within scope	06FEB2009 22:40:10
Stop time of last product within scope	07FEB2009 22:04:47
Total number of level 0 products	16
Number of level 0 products with errors	4

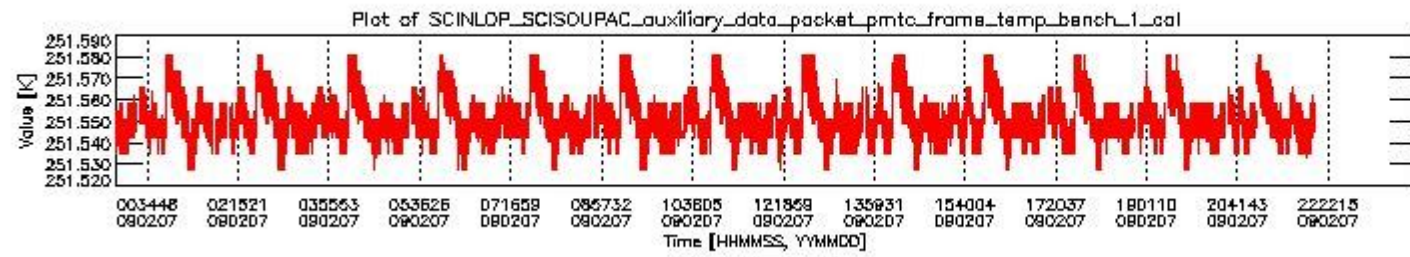
### 0.1.2 Summary per product

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

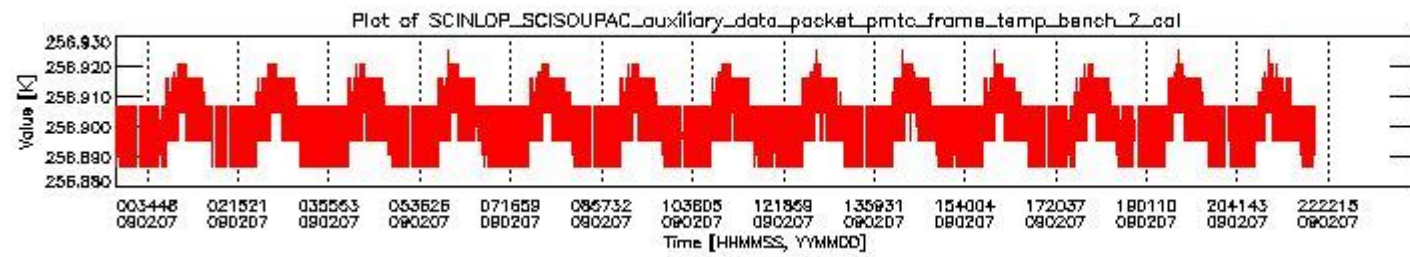
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090206_224010_000060302076_00158_36284_8442.N1	06FEB2009 22:40:10	07FEB2009 00:20:41	0	0	0	0	0
1	SCI_NL__OPNPDE20090207_002538_000055962076_00159_36285_8443.N1	07FEB2009 00:25:38	07FEB2009 01:58:54	0	0	0	0	0
2	SCI_NL__OPNPDE20090207_015854_000045322076_00160_36286_8444.N1	07FEB2009 01:58:54	07FEB2009 03:14:25	0	0	0	0	0
3	SCI_NL__OPNPDE20090207_031425_000061602076_00161_36287_8445.N1	07FEB2009 03:14:25	07FEB2009 04:57:05	0	0	0	0	0
4	SCI_NL__OPNPDE20090207_045557_000061042076_00162_36288_8446.N1	07FEB2009 04:55:57	07FEB2009 06:37:41	0	0	0	0	0
5	SCI_NL__OPNPDK20090207_063632_000041132076_00163_36289_0655.N1	07FEB2009 06:36:32	07FEB2009 07:45:06	0	0	0	0	0
6	SCI_NL__OPNPDK20090207_074357_000061042076_00164_36290_4763.N1	07FEB2009 07:43:57	07FEB2009 09:25:41	0	0	0	0	0
7	SCI_NL__OPNPDK20090207_092337_000061602076_00165_36291_4764.N1	07FEB2009 09:23:37	07FEB2009 11:06:17	0	0	0	0	0
8	SCI_NL__OPNPDK20090207_110412_000060352076_00166_36292_4765.N1	07FEB2009 11:04:12	07FEB2009 12:44:48	1	1	0	0	0
9	SCI_NL__OPNPDK20090207_124339_000035222076_00167_36293_4766.N1	07FEB2009 12:43:39	07FEB2009 13:42:21	0	0	0	0	0
10	SCI_NL__OPNPDK20090207_134221_000025142076_00167_36293_4767.N1	07FEB2009 13:42:21	07FEB2009 14:24:14	1	0	1	0	0
11	SCI_NL__OPNPDK20090207_142319_000059242076_00168_36294_4768.N1	07FEB2009 14:23:19	07FEB2009 16:02:02	1	0	1	0	0
12	SCI_NL__OPNPDK20090207_155849_000060362076_00169_36295_4769.N1	07FEB2009 15:58:49	07FEB2009 17:39:24	0	0	0	0	0
13	SCI_NL__OPNPDK20090207_173731_000060362076_00170_36296_4770.N1	07FEB2009 17:37:31	07FEB2009 19:18:07	1	1	0	0	0
14	SCI_NL__OPNPDK20090207_191615_000060912076_00171_36297_4771.N1	07FEB2009 19:16:15	07FEB2009 20:57:47	0	0	0	0	0
15	SCI_NL__OPNPDE20090207_205651_000040762076_00172_36298_8447.N1	07FEB2009 20:56:51	07FEB2009 22:04:47	0	0	0	0	0

## 0.2 Product Quality Indicators

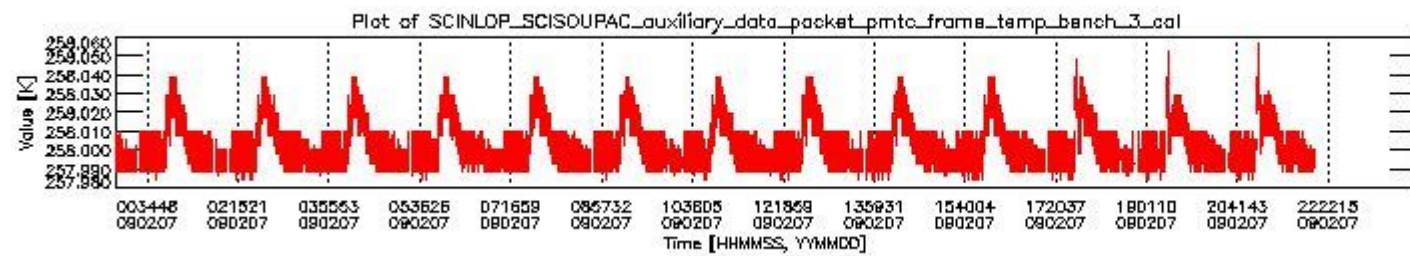
This section shows information about product quality, currently temperatures.



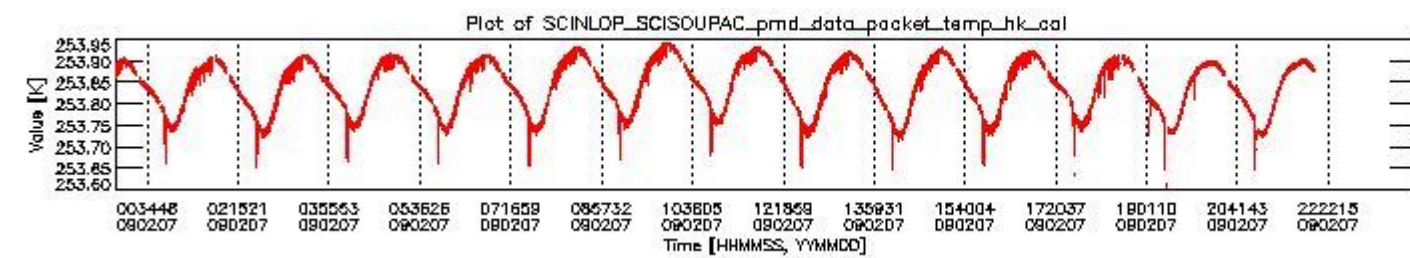
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090207\_0.PNG



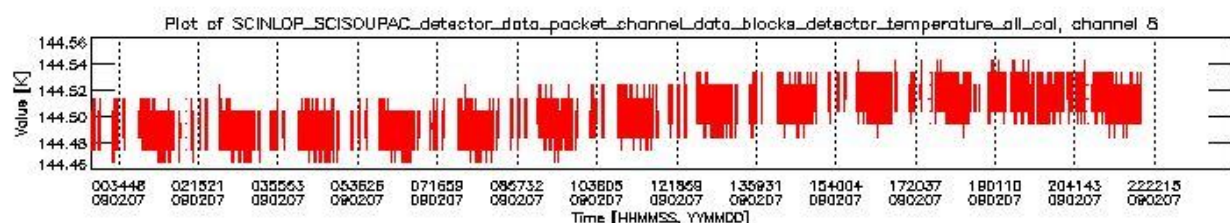
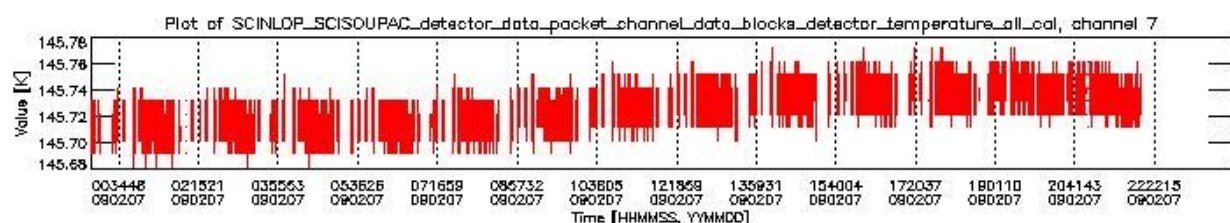
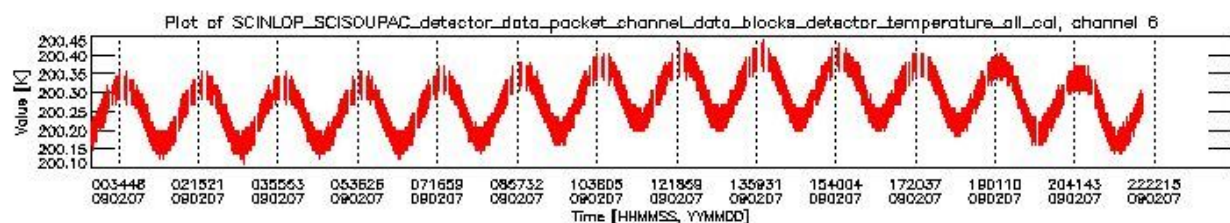
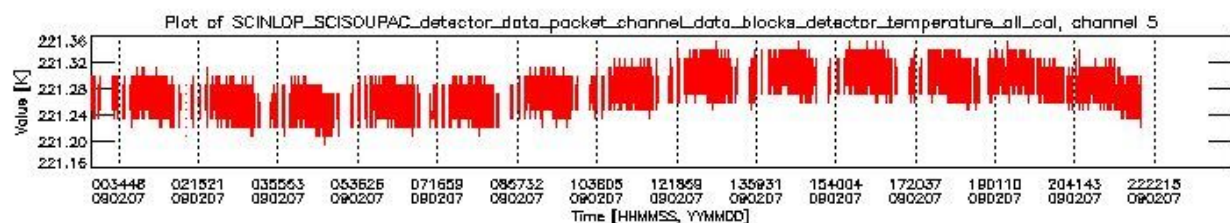
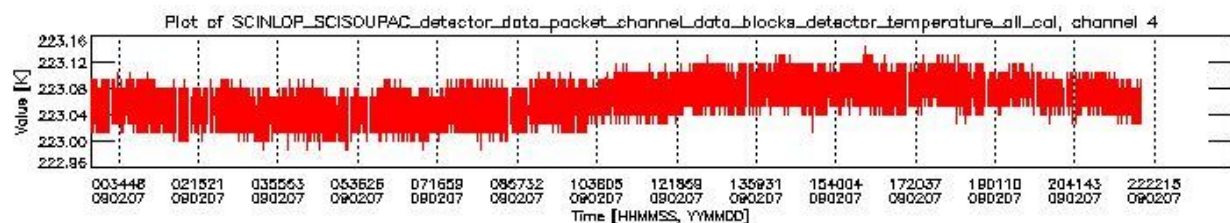
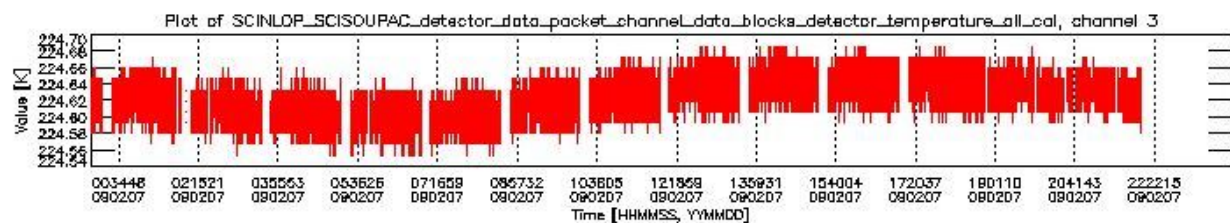
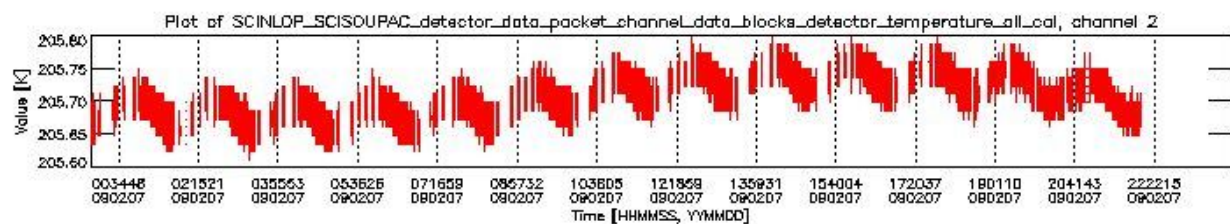
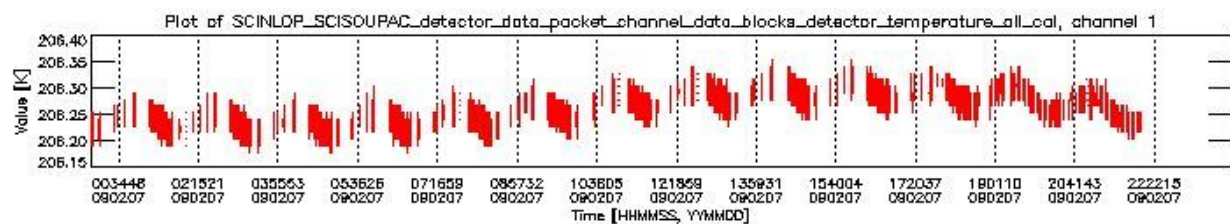
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090207\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090207\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090207\_3.PNG

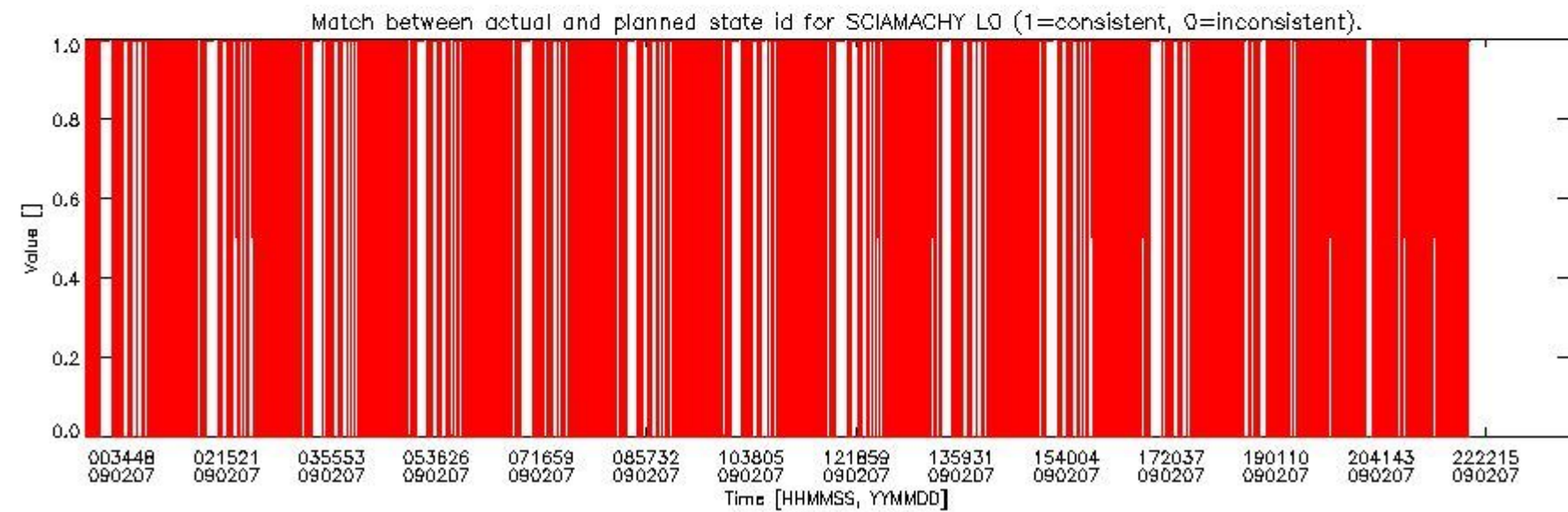
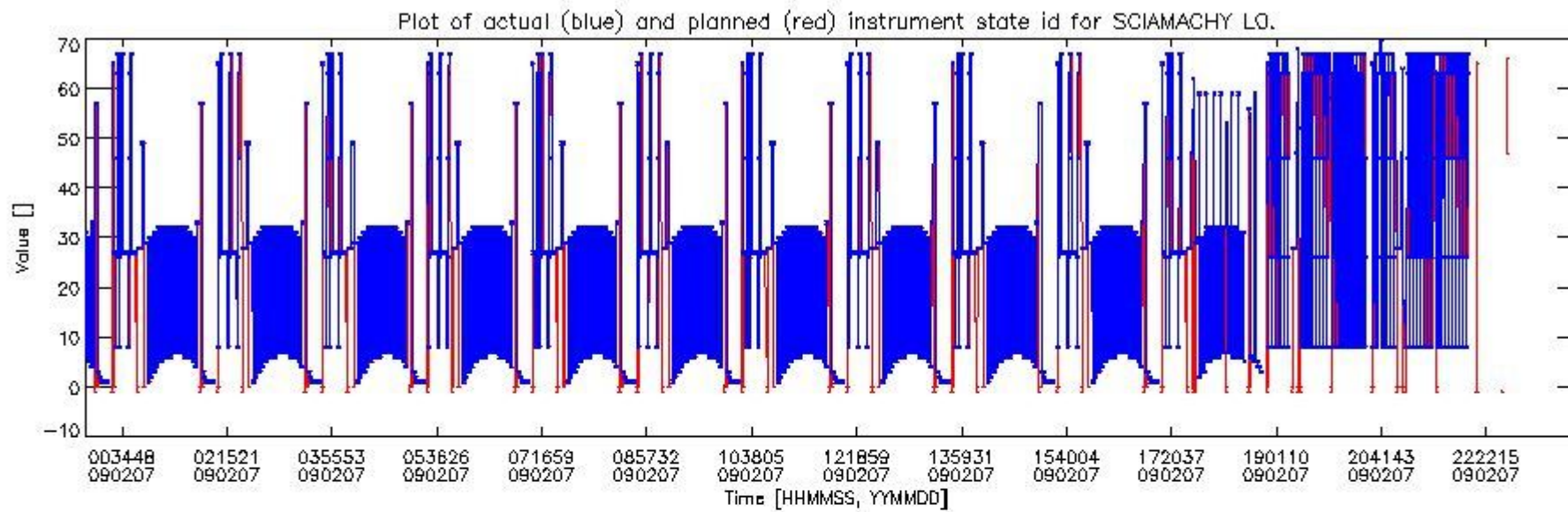


### 0.3 State monitoring

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: **47805**

#	Actual time	Actual value	Planned time	Planned value
0	07FEB2009 00:00:24.265650	6	07FEB2009 00:00:24.265650	31
1	07FEB2009 00:00:24.640663	6	07FEB2009 00:00:24.640663	31
2	07FEB2009 00:00:24.890631	6	07FEB2009 00:00:24.890631	31
3	07FEB2009 00:00:25.140640	6	07FEB2009 00:00:25.140640	31
4	07FEB2009 00:00:25.390649	6	07FEB2009 00:00:25.390649	31
5	07FEB2009 00:00:25.640658	6	07FEB2009 00:00:25.640658	31
6	07FEB2009 00:00:25.890666	6	07FEB2009 00:00:25.890666	31
7	07FEB2009 00:00:26.140635	6	07FEB2009 00:00:26.140635	31
8	07FEB2009 00:00:26.390643	6	07FEB2009 00:00:26.390643	31
9	07FEB2009 00:00:26.640652	6	07FEB2009 00:00:26.640652	31
10	07FEB2009 00:00:26.890661	6	07FEB2009 00:00:26.890661	31
11	07FEB2009 00:00:27.140629	6	07FEB2009 00:00:27.140629	31
12	07FEB2009 00:00:27.390638	6	07FEB2009 00:00:27.390638	31
13	07FEB2009 00:00:27.640647	6	07FEB2009 00:00:27.640647	31
14	07FEB2009 00:00:27.890655	6	07FEB2009 00:00:27.890655	31
15	07FEB2009 00:00:28.140664	6	07FEB2009 00:00:28.140664	31
16	07FEB2009 00:00:28.390633	6	07FEB2009 00:00:28.390633	31
17	07FEB2009 00:00:28.640641	6	07FEB2009 00:00:28.640641	31
18	07FEB2009 00:00:28.890650	6	07FEB2009 00:00:28.890650	31
19	07FEB2009 00:00:29.140659	6	07FEB2009 00:00:29.140659	31
	...	...	...	...

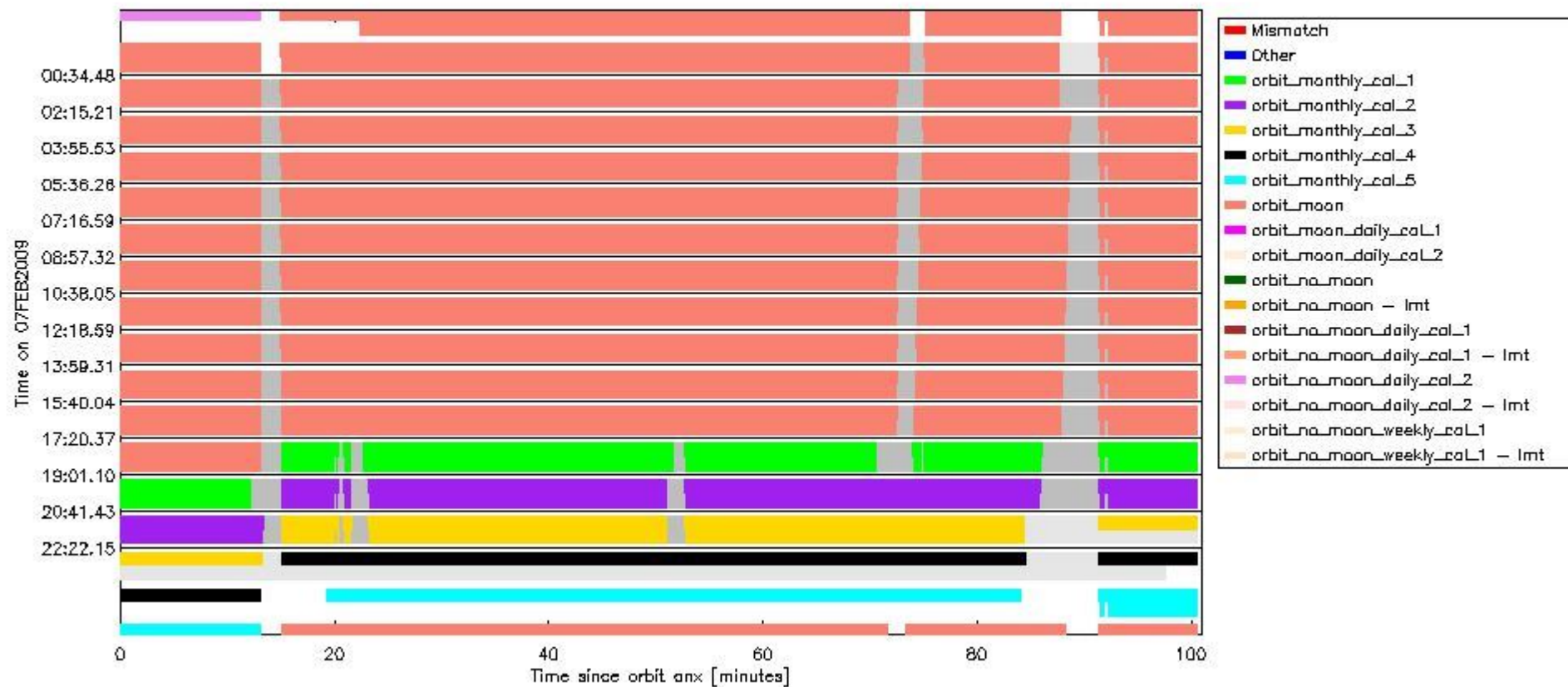


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090207\_5.PNG

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 07FEB2009.  
 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\_20090207\_6.PNG

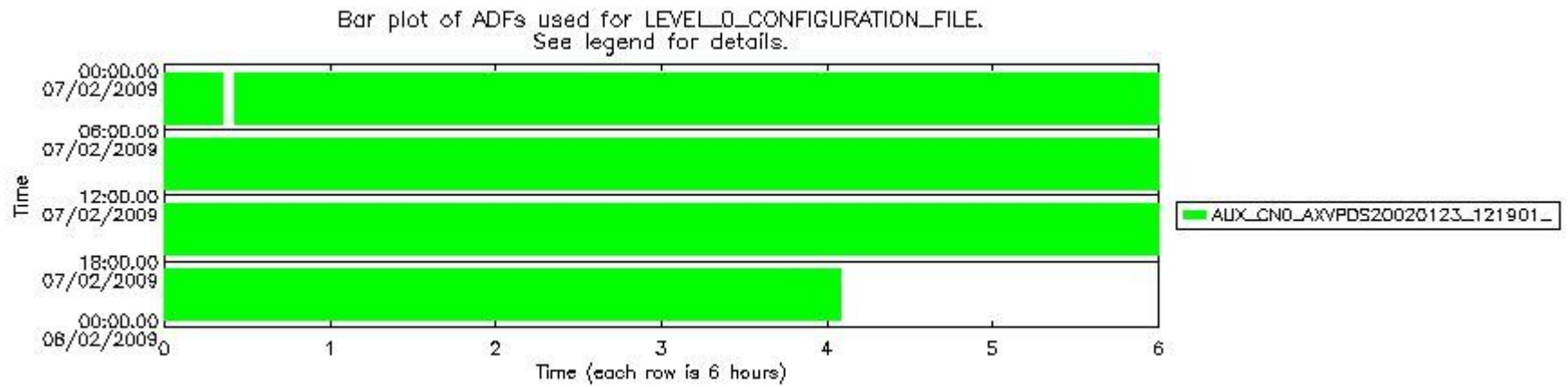
## 0.4 ADF monitoring

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

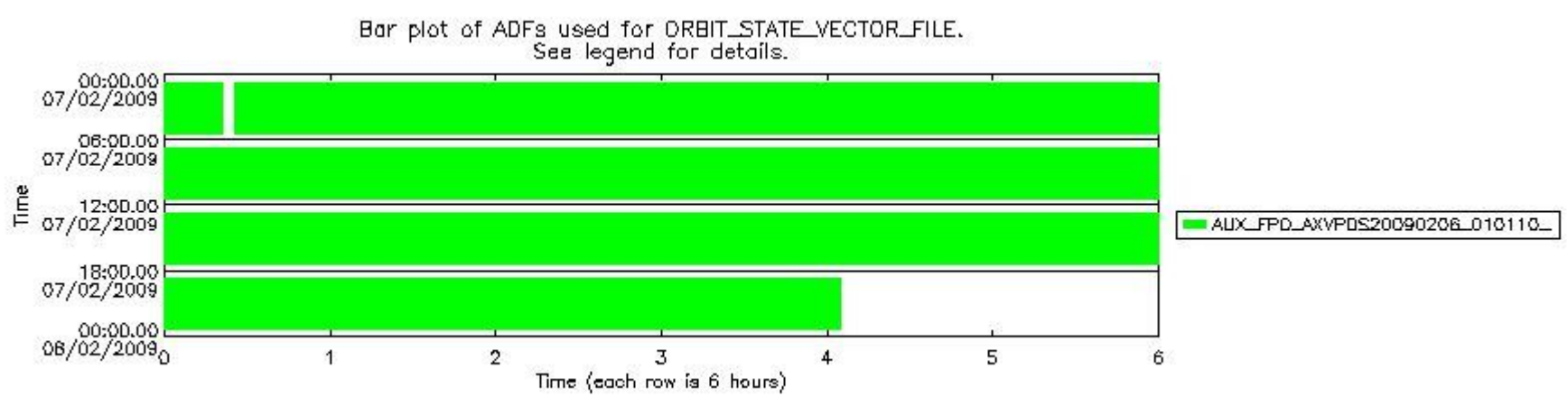
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

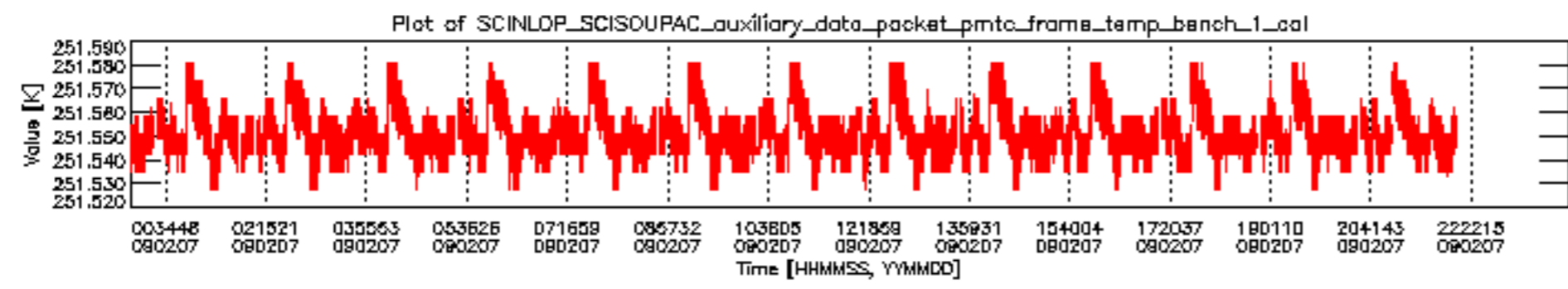
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090206_010110_20090205_182353_20090215_213043



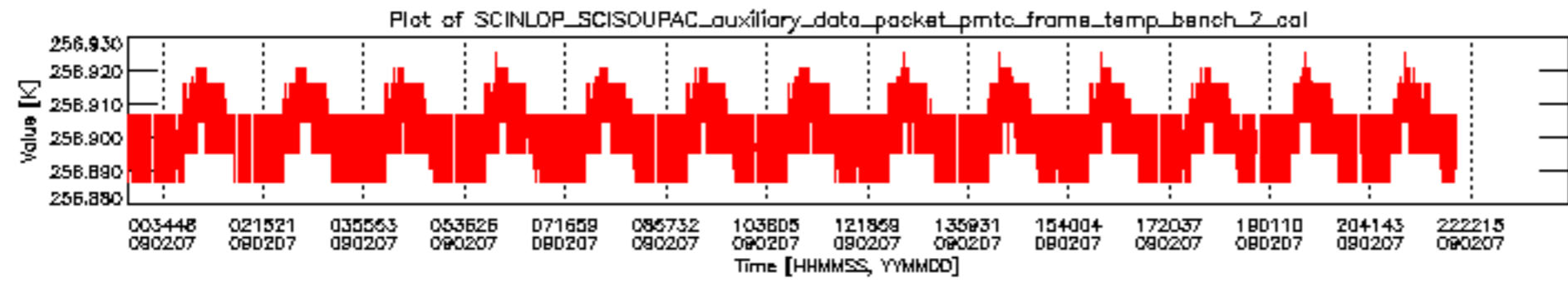
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090207\_7.PNG

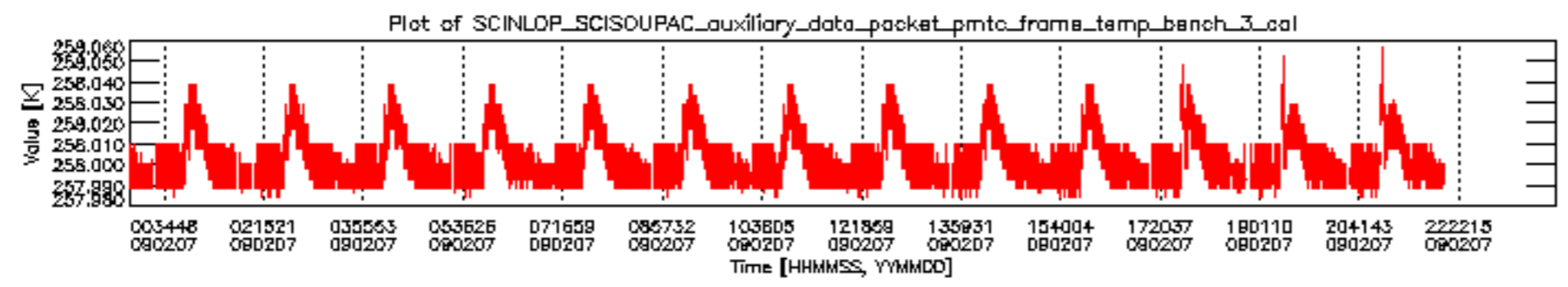


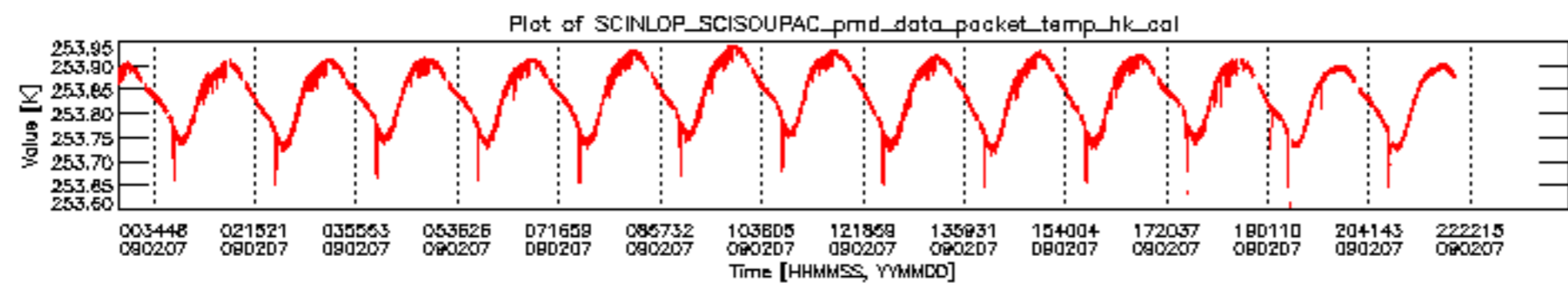
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090207\_8.PNG

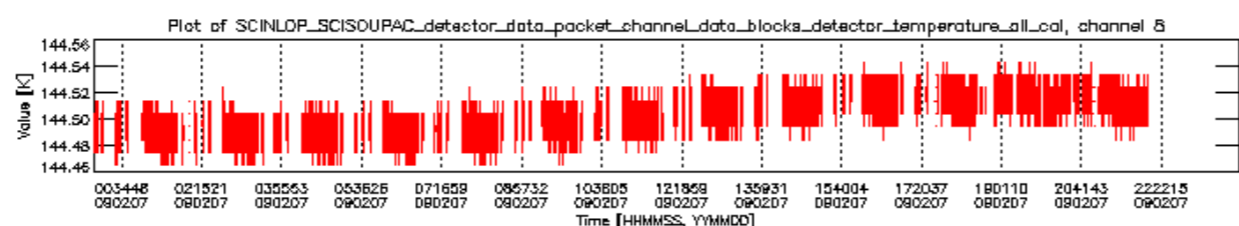
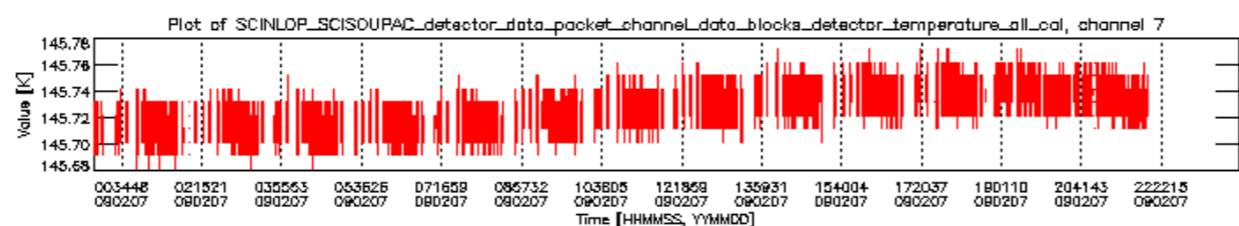
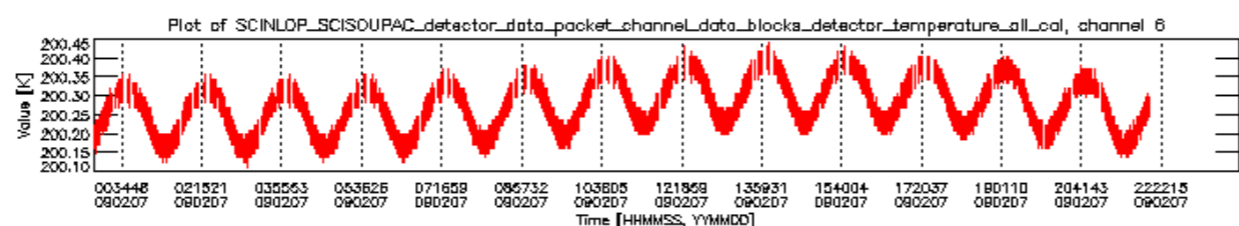
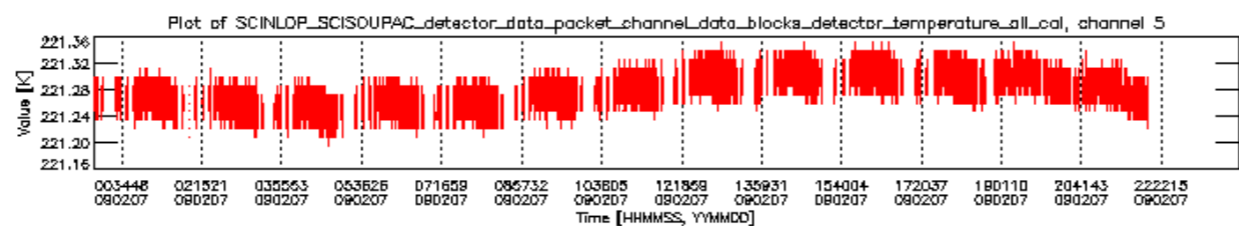
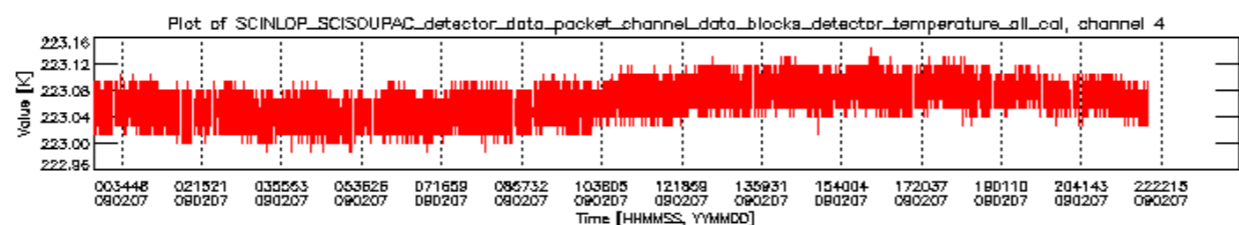
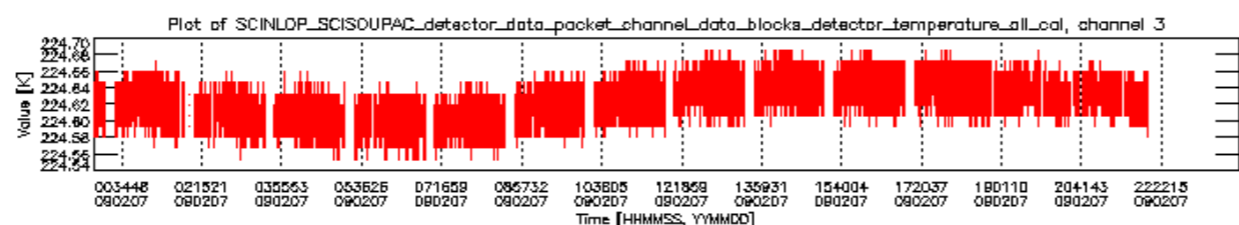
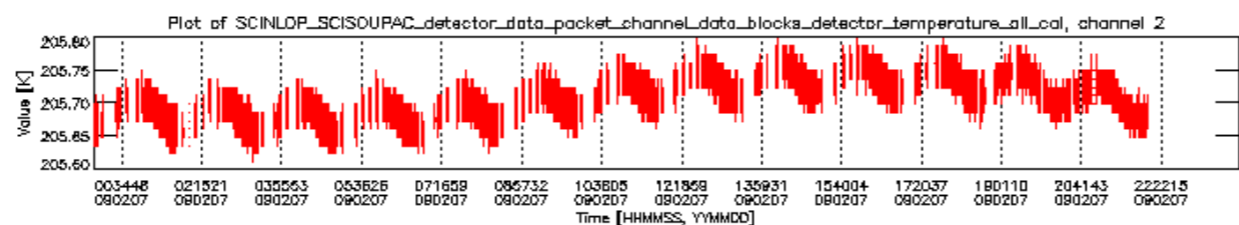
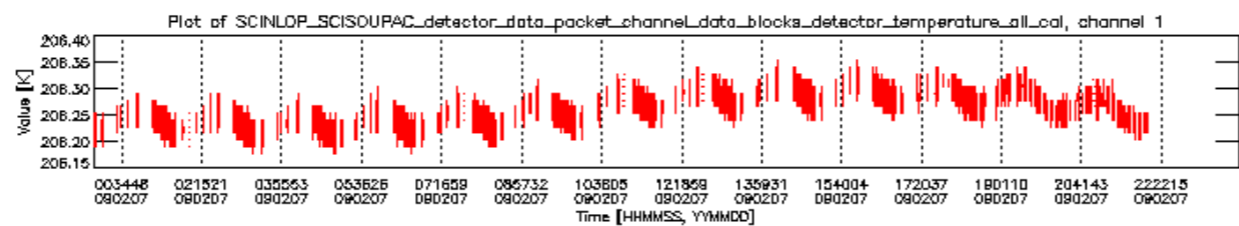


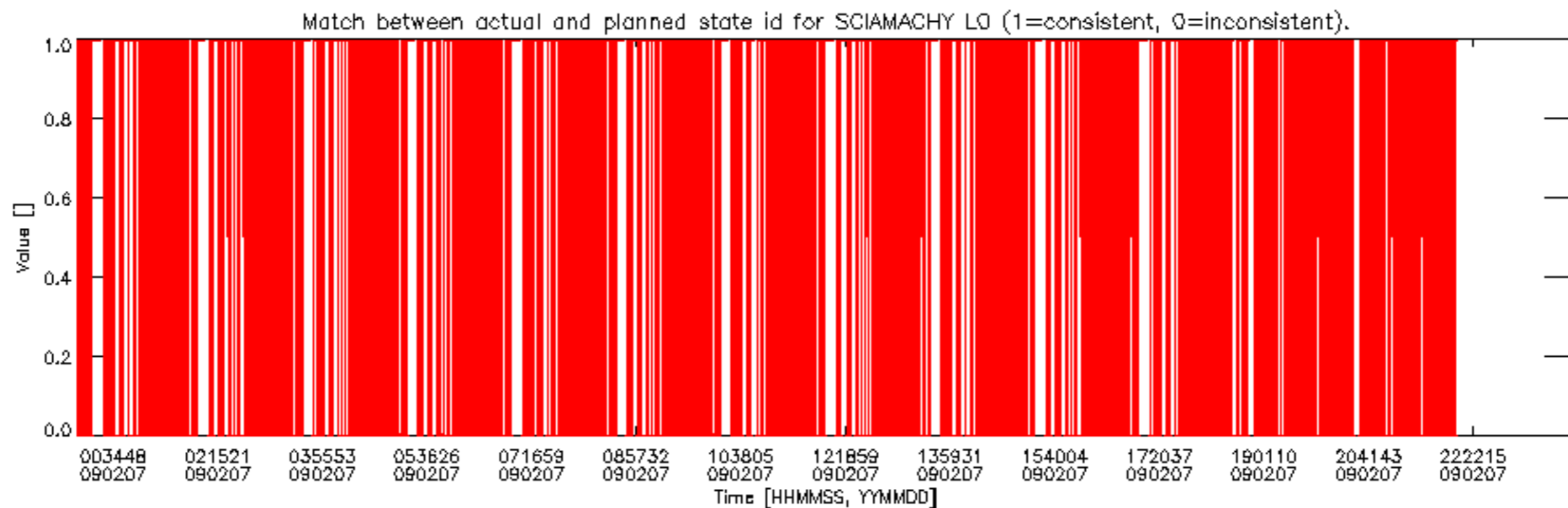
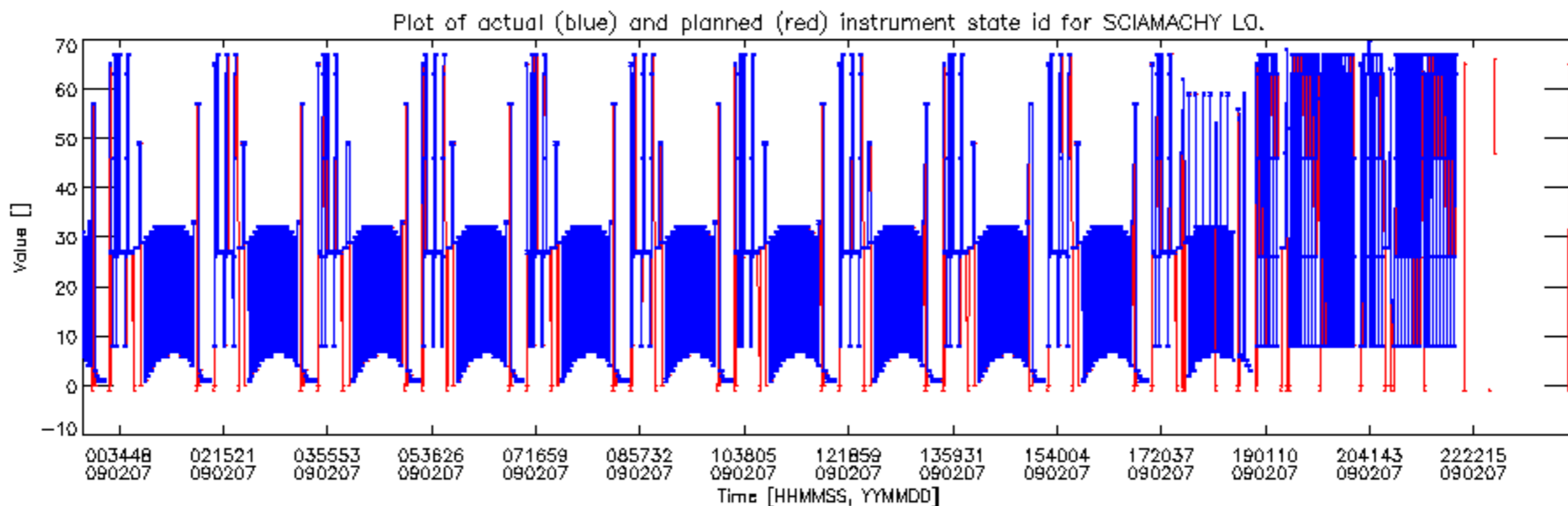












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 07FEB2009.  
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