

## 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	09APR2009 05:09:47
Data source version	KSPT_L0/4303-N
Processing scope for products	05APR2009 00:00:00 to 06APR2009 00:00:00
Start time of first product within scope	04APR2009 22:49:45
Stop time of last product within scope	06APR2009 01:39:11
Total number of level 0 products	17
Number of level 0 products with errors	1

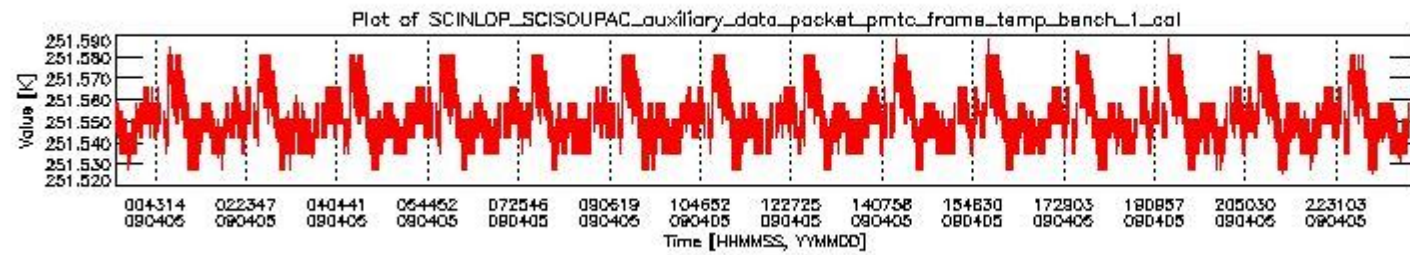
### 0.1.2 Summary per product

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

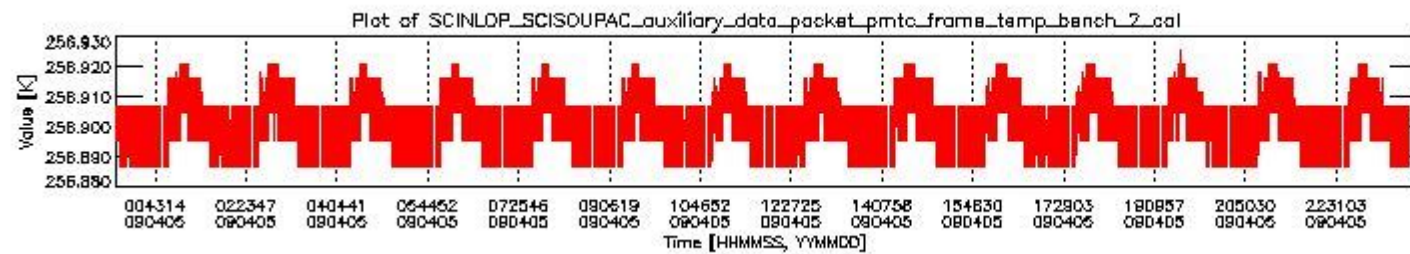
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090404_224945_000061552077_00473_37100_8888.N1	04APR2009 22:49:45	05APR2009 00:32:20	0	0	0	0	0
1	SCI_NL__OPNPDE20090405_003052_000058282077_00474_37101_8889.N1	05APR2009 00:30:52	05APR2009 02:08:00	0	0	0	0	0
2	SCI_NL__OPNPDE20090405_020716_000049152077_00475_37102_8890.N1	05APR2009 02:07:16	05APR2009 03:29:11	0	0	0	0	0
3	SCI_NL__OPNPDE20090405_032911_000057182077_00476_37103_8891.N1	05APR2009 03:29:11	05APR2009 05:04:29	0	0	0	0	0
4	SCI_NL__OPNPDE20090405_050429_000061042077_00477_37104_8892.N1	05APR2009 05:04:29	05APR2009 06:46:13	0	0	0	0	0
5	SCI_NL__OPNPDK20090405_064613_000041012077_00478_37105_1182.N1	05APR2009 06:46:13	05APR2009 07:54:34	0	0	0	0	0
6	SCI_NL__OPNPDK20090405_075338_000060912077_00479_37106_1183.N1	05APR2009 07:53:38	05APR2009 09:35:09	0	0	0	0	0
7	SCI_NL__OPNPDK20090405_093509_000059802077_00480_37107_1184.N1	05APR2009 09:35:09	05APR2009 11:14:49	0	0	0	0	0
8	SCI_NL__OPNPDK20090405_111340_000060352077_00481_37108_1185.N1	05APR2009 11:13:40	05APR2009 12:54:15	1	1	0	0	0
9	SCI_NL__OPNPDK20090405_125415_000059112077_00482_37109_1186.N1	05APR2009 12:54:15	05APR2009 14:32:47	0	0	0	0	0
10	SCI_NL__OPNPDK20090405_143151_000057182077_00483_37110_1187.N1	05APR2009 14:31:51	05APR2009 16:07:09	0	0	0	0	0
11	SCI_NL__OPNPDK20090405_160613_000060012077_00484_37111_1188.N1	05APR2009 16:06:13	05APR2009 17:46:13	0	0	0	0	0
12	SCI_NL__OPNPDK20090405_174518_000061472077_00485_37112_1189.N1	05APR2009 17:45:18	05APR2009 19:27:45	0	0	0	0	0
13	SCI_NL__OPNPDK20090405_192553_000060152077_00486_37113_1190.N1	05APR2009 19:25:53	05APR2009 21:06:08	0	0	0	0	0
14	SCI_NL__OPNPDE20090405_210254_000045532077_00487_37114_8893.N1	05APR2009 21:02:54	05APR2009 22:18:47	0	0	0	0	0
15	SCI_NL__OPNPDE20090405_221800_000061552077_00487_37114_8894.N1	05APR2009 22:18:00	06APR2009 00:00:36	0	0	0	0	0
16	SCI_NL__OPNPDE20090405_235908_000060032077_00488_37115_8895.N1	05APR2009 23:59:08	06APR2009 01:39:11	0	0	0	0	0

## 0.2 Product Quality Indicators

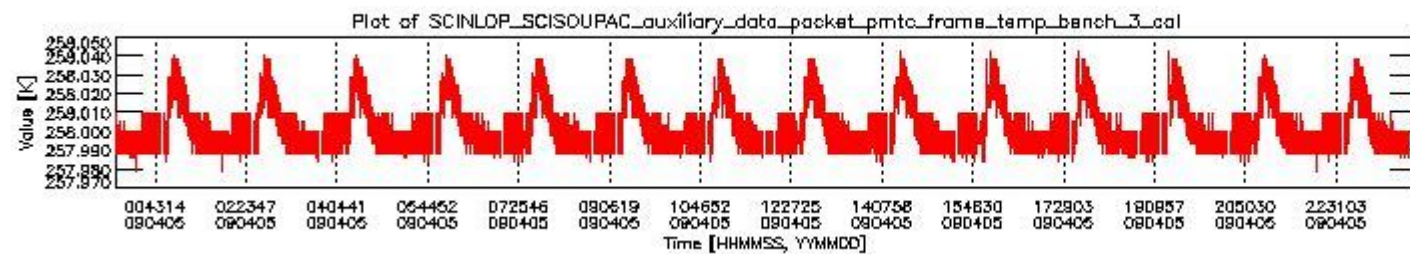
This section shows information about product quality, currently temperatures.



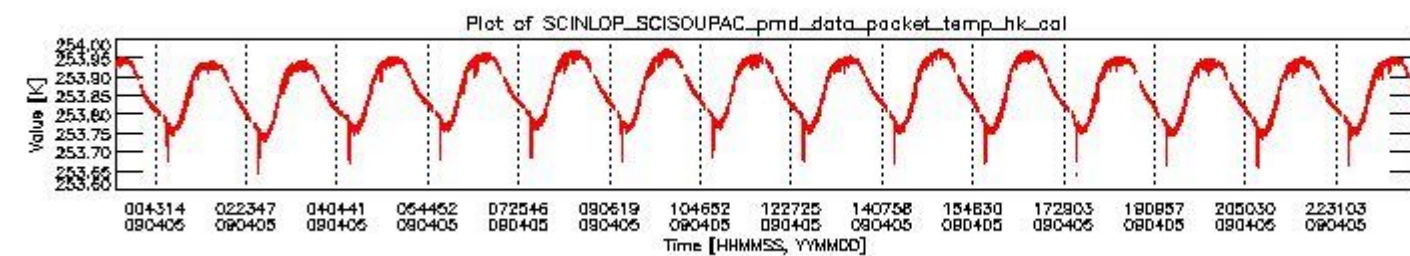
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090405\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090405\_1.PNG

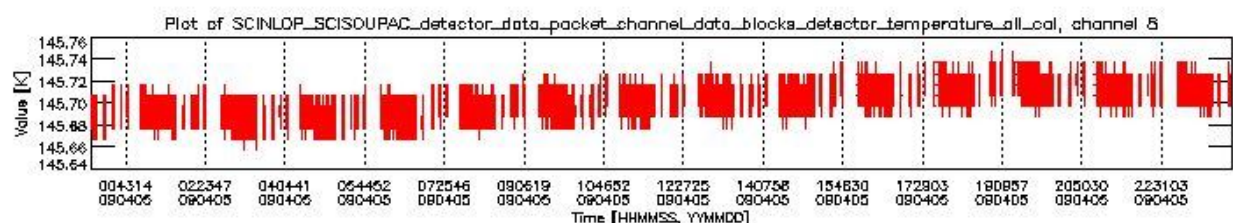
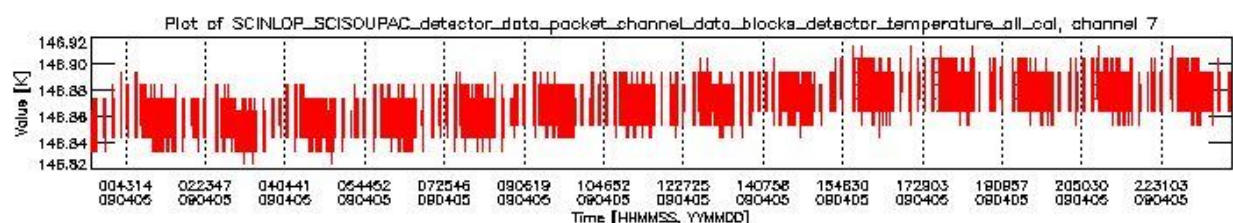
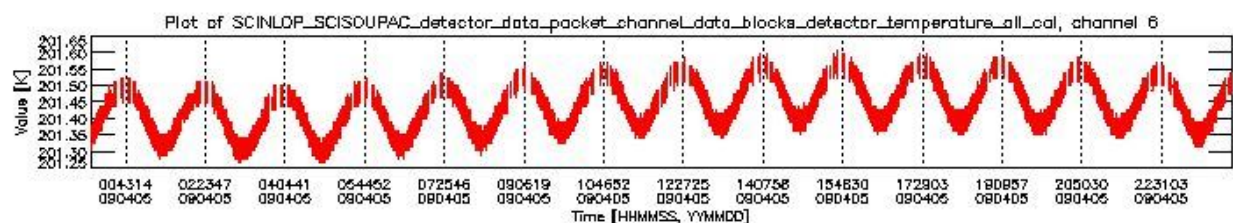
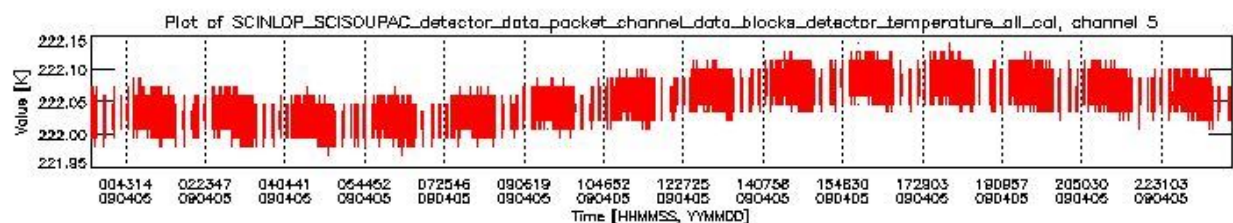
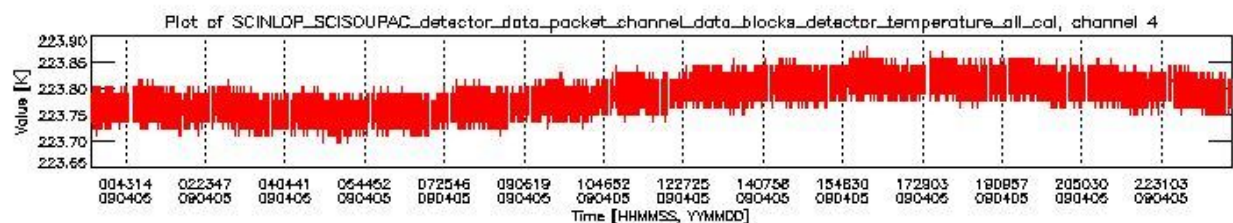
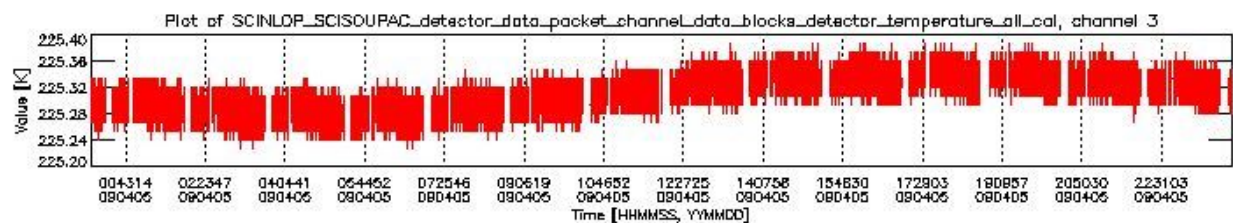
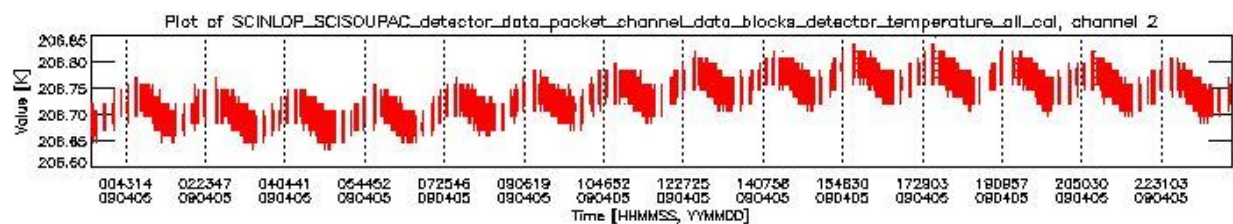
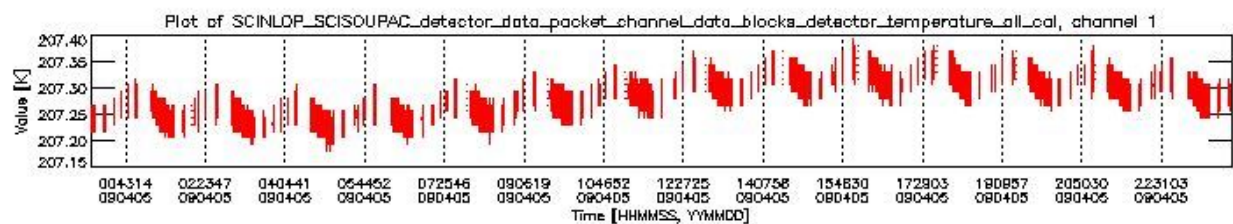


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090405\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090405\_3.PNG



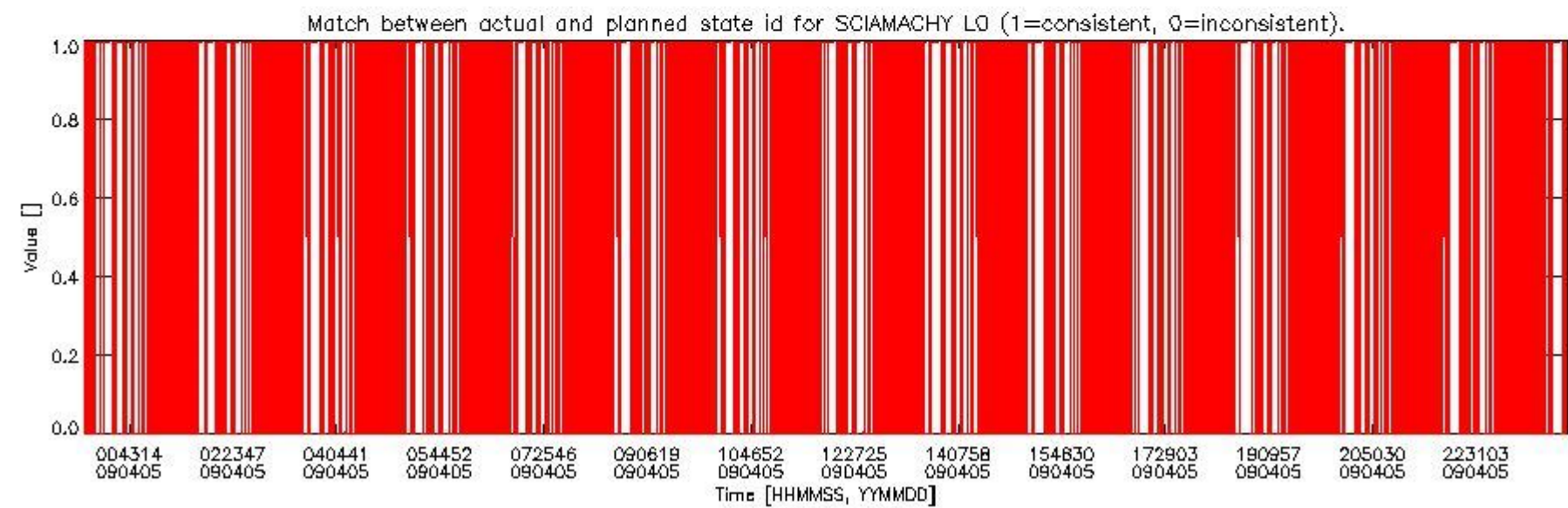
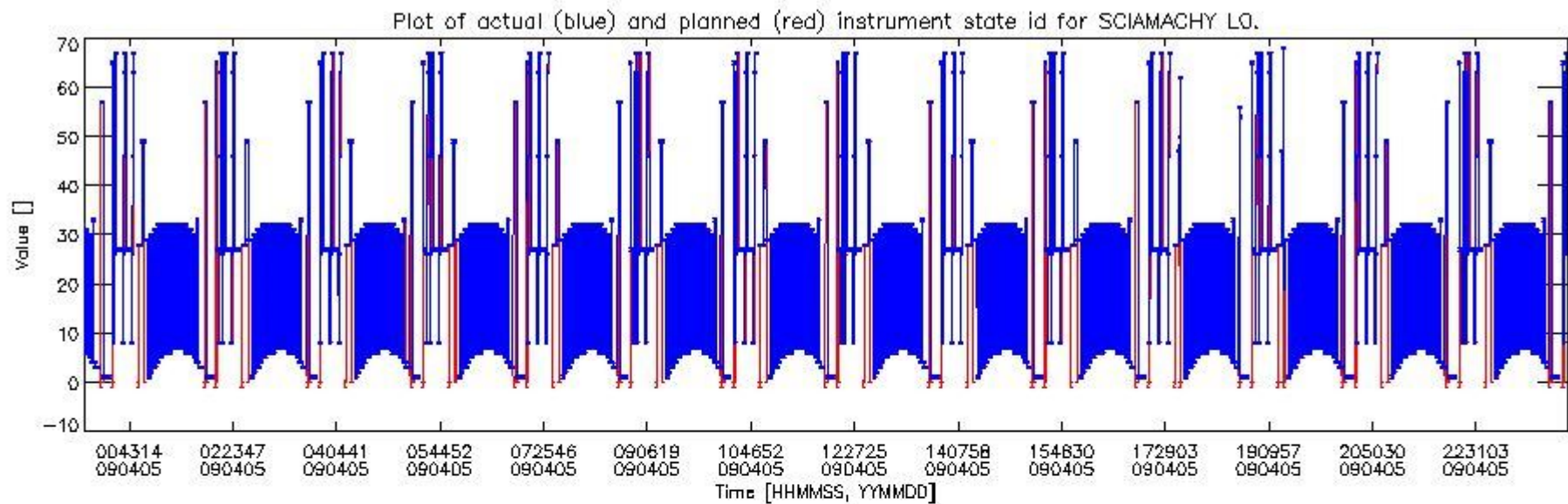


### 0.3 State monitoring

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: **59258**

#	Actual time	Actual value	Planned time	Planned value
0	05APR2009 00:00:38.444813	6	05APR2009 00:00:38.444813	31
1	05APR2009 00:00:38.819826	6	05APR2009 00:00:38.819826	31
2	05APR2009 00:00:39.069834	6	05APR2009 00:00:39.069834	31
3	05APR2009 00:00:39.319843	6	05APR2009 00:00:39.319843	31
4	05APR2009 00:00:39.569812	6	05APR2009 00:00:39.569812	31
5	05APR2009 00:00:39.819820	6	05APR2009 00:00:39.819820	31
6	05APR2009 00:00:40.069829	6	05APR2009 00:00:40.069829	31
7	05APR2009 00:00:40.319838	6	05APR2009 00:00:40.319838	31
8	05APR2009 00:00:40.569846	6	05APR2009 00:00:40.569846	31
9	05APR2009 00:00:40.819815	6	05APR2009 00:00:40.819815	31
10	05APR2009 00:00:41.069824	6	05APR2009 00:00:41.069824	31
11	05APR2009 00:00:41.319832	6	05APR2009 00:00:41.319832	31
12	05APR2009 00:00:41.569841	6	05APR2009 00:00:41.569841	31
13	05APR2009 00:00:41.819809	6	05APR2009 00:00:41.819809	31
14	05APR2009 00:00:42.069818	6	05APR2009 00:00:42.069818	31
15	05APR2009 00:00:42.319827	6	05APR2009 00:00:42.319827	31
16	05APR2009 00:00:42.569835	6	05APR2009 00:00:42.569835	31
17	05APR2009 00:00:42.819844	6	05APR2009 00:00:42.819844	31
18	05APR2009 00:00:43.069813	6	05APR2009 00:00:43.069813	31
19	05APR2009 00:00:43.319821	6	05APR2009 00:00:43.319821	31
	...	...	...	...



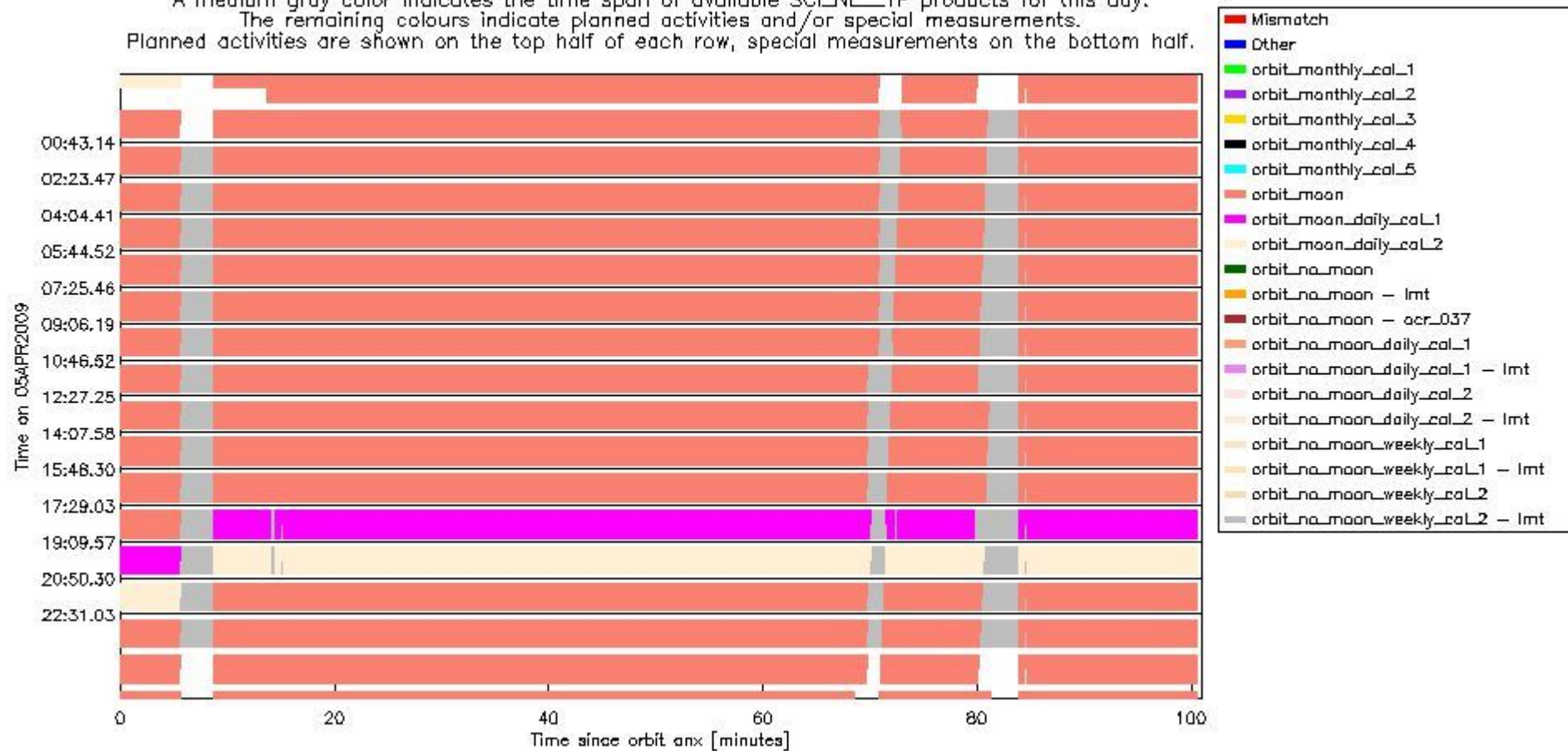
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090405\_5.PNG

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 Q5APR2009.  
 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\_20090405\_6.PNG

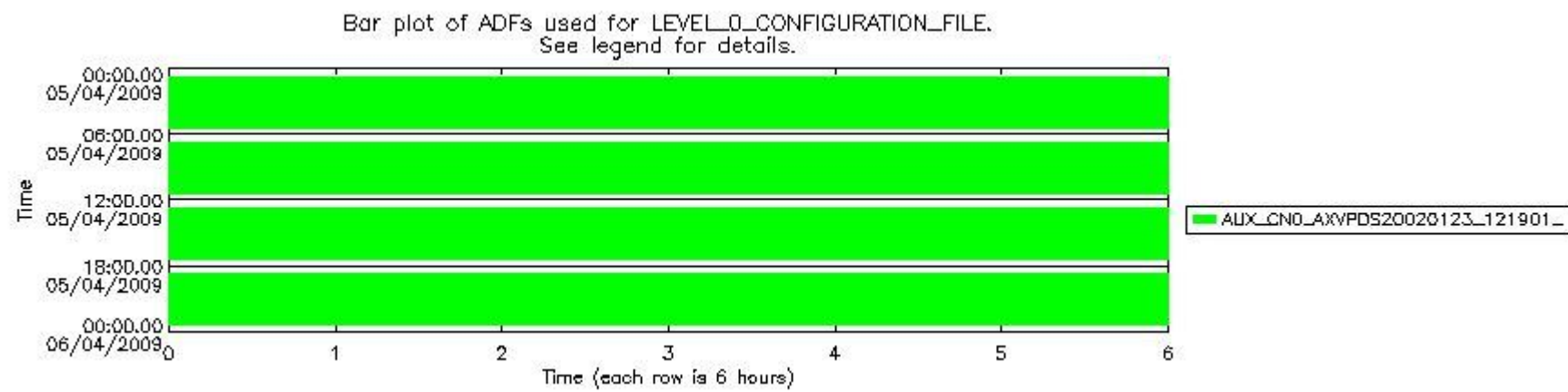
## 0.4 ADF monitoring

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

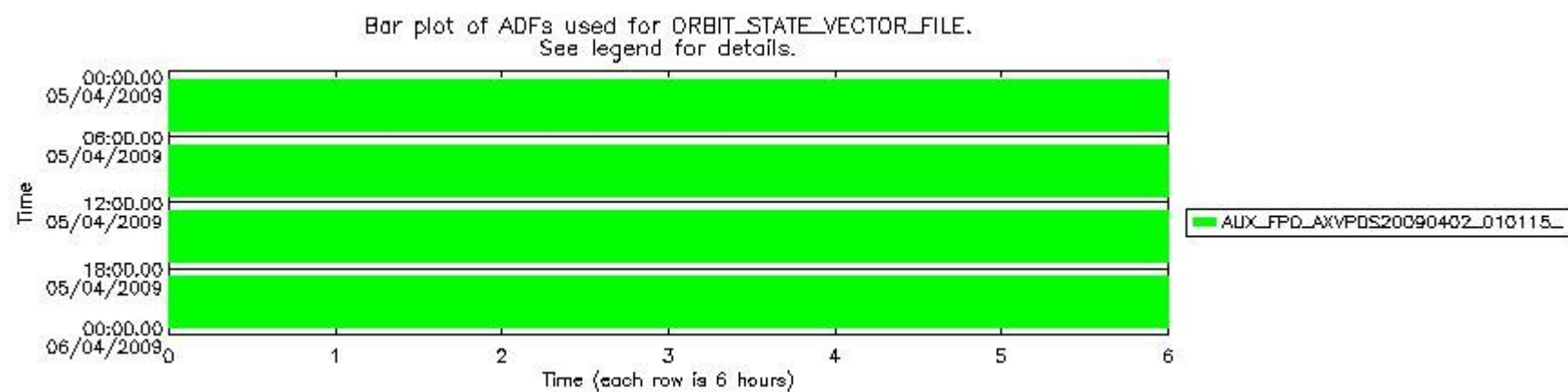
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

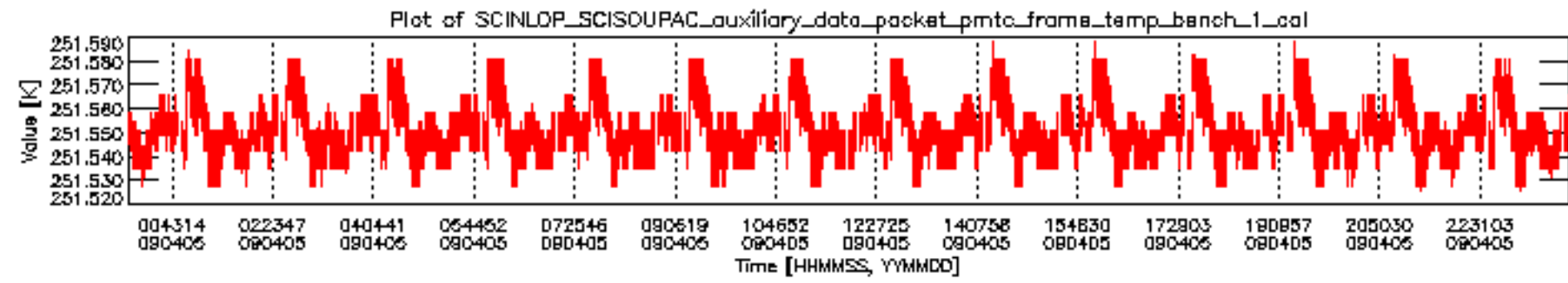
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090402_010115_20090401_193543_20090411_210154



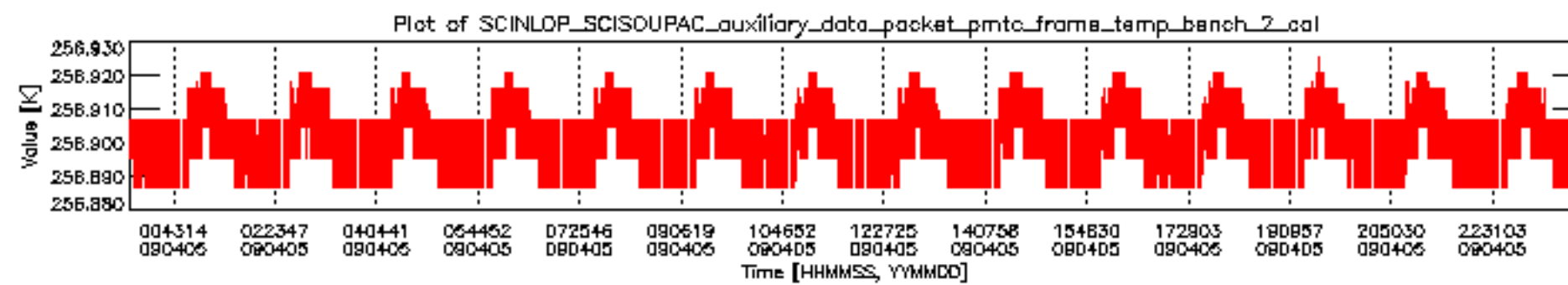
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090405\_7.PNG

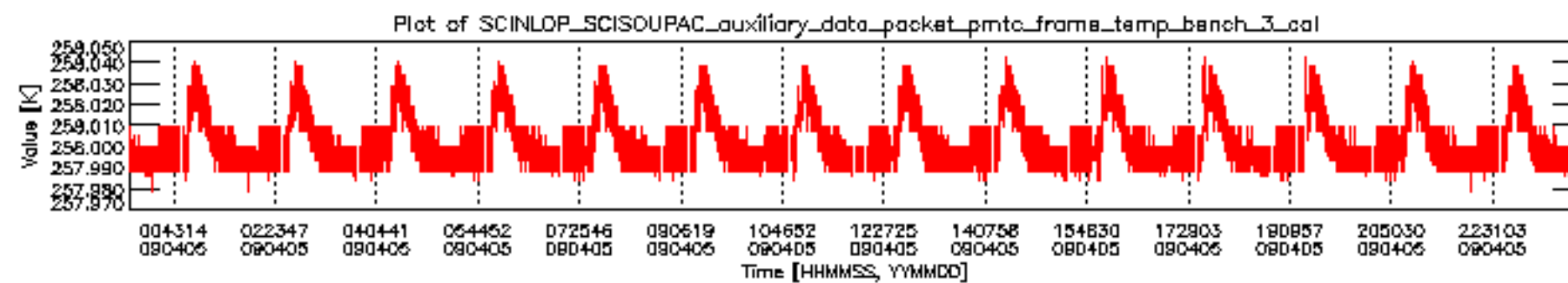


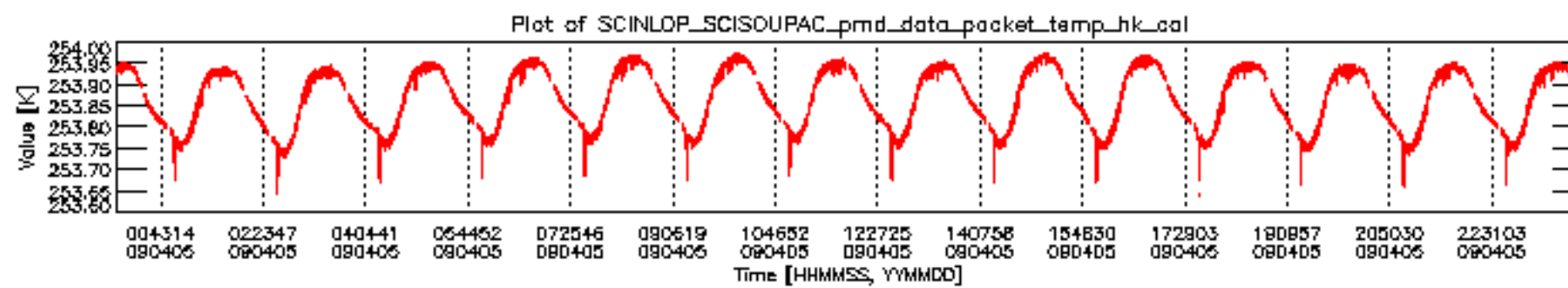
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090405\_8.PNG

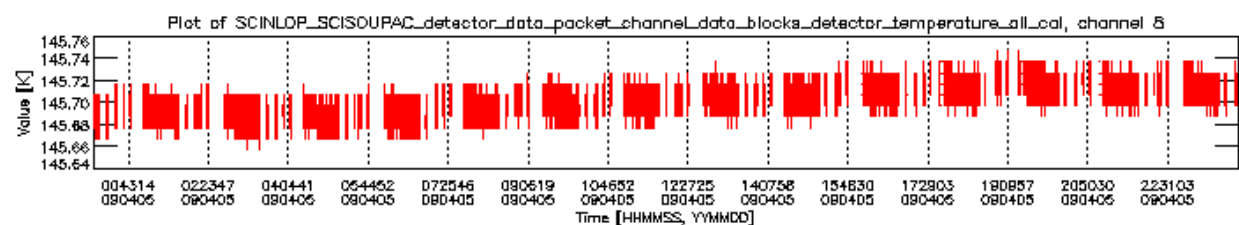
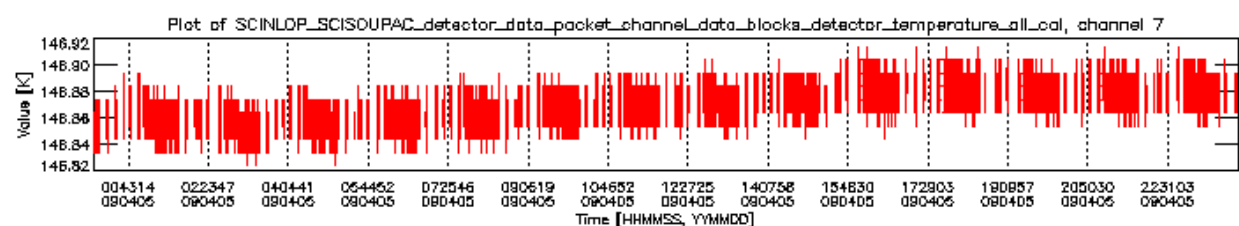
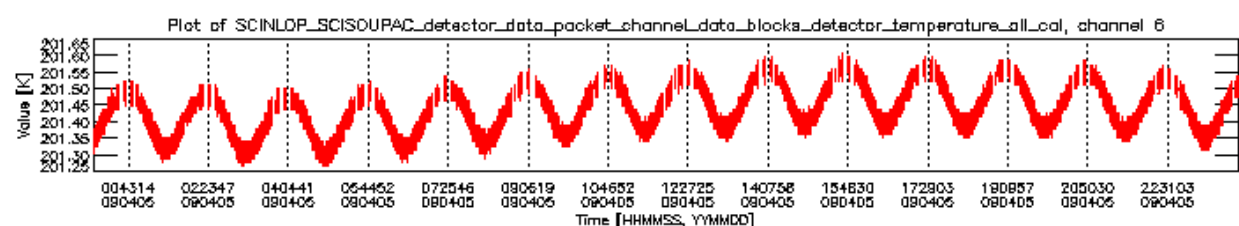
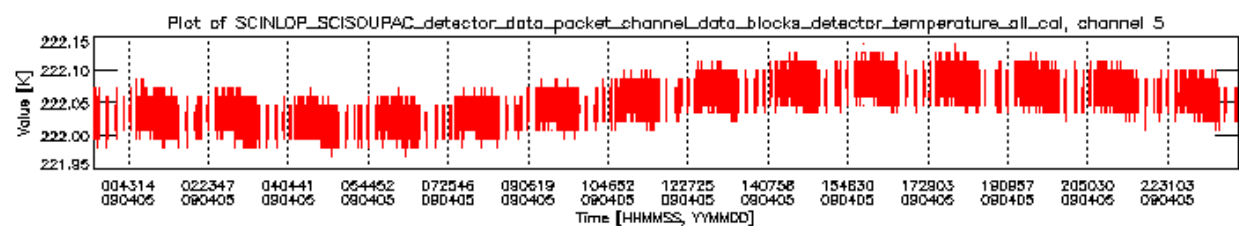
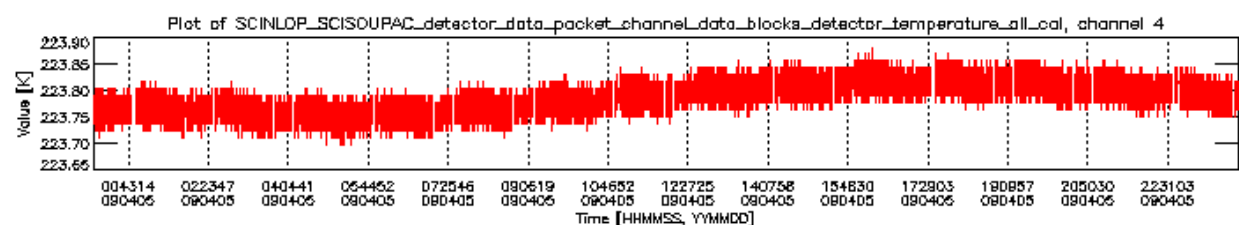
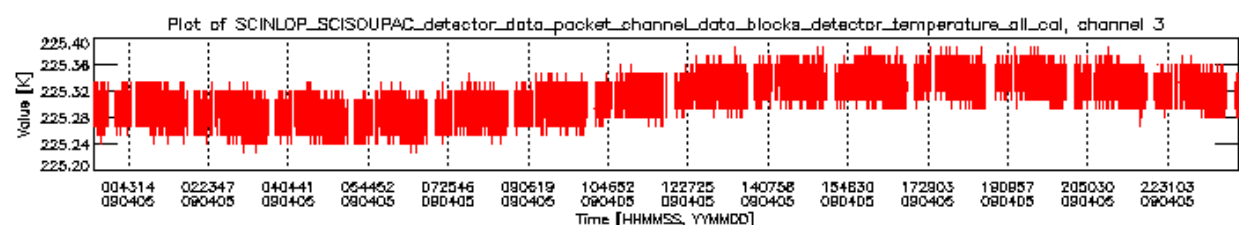
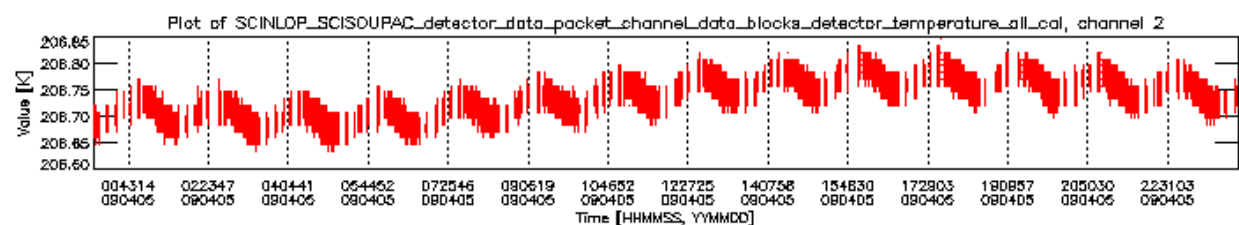
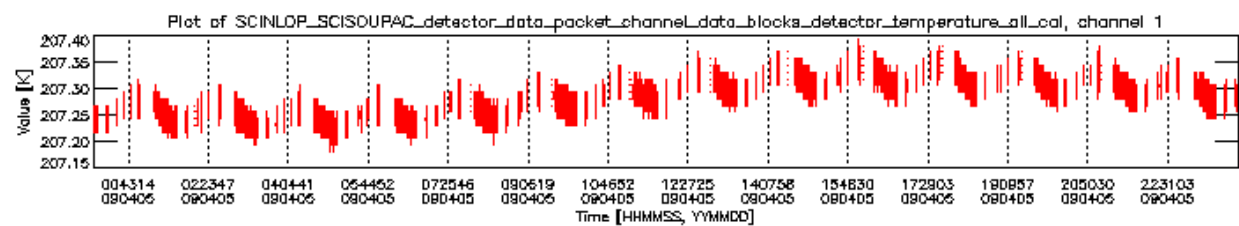




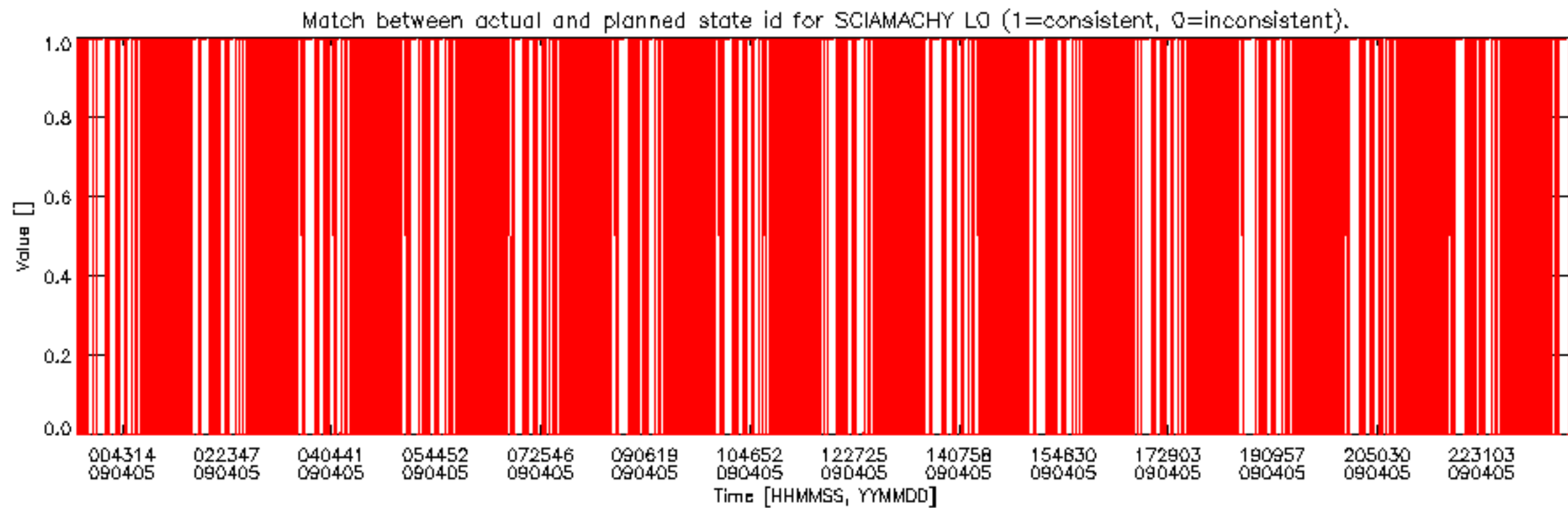
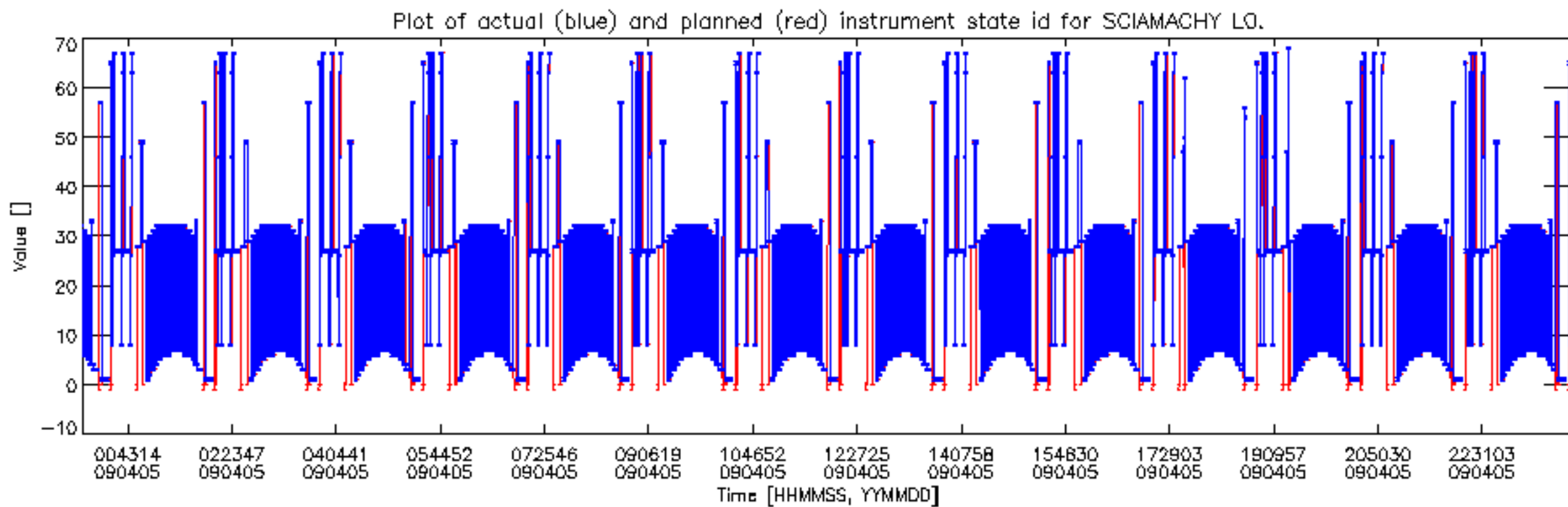












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 05APR2009.  
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