

## 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	05MAY2009 05:00:35
Data source version	KSPT_L0/4303-N
Processing scope for products	01MAY2009 00:00:00 to 02MAY2009 00:00:00
Start time of first product within scope	30APR2009 22:33:46
Stop time of last product within scope	02MAY2009 01:22:30
Total number of level 0 products	17
Number of level 0 products with errors	2

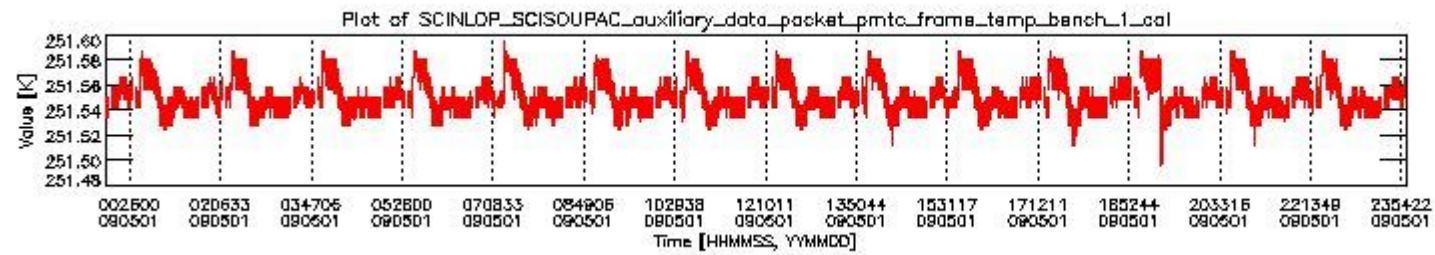
### 0.1.2 Summary per product

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

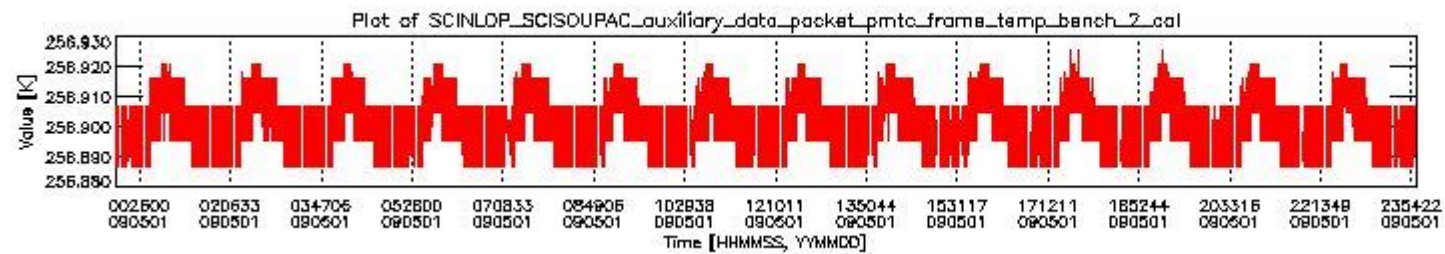
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090430_223346_000060242078_00344_37472_9052.N1	30APR2009 22:33:46	01MAY2009 00:14:10	0	0	0	0	0
1	SCI_NL__OPNPDE20090501_001253_000059912078_00345_37473_9053.N1	01MAY2009 00:12:53	01MAY2009 01:52:45	0	0	0	0	0
2	SCI_NL__OPNPDE20090501_015117_000048422078_00346_37474_9054.N1	01MAY2009 01:51:17	01MAY2009 03:11:58	0	0	0	0	0
3	SCI_NL__OPNPDE20090501_031050_000058432078_00347_37475_9055.N1	01MAY2009 03:10:50	01MAY2009 04:48:12	0	0	0	0	0
4	SCI_NL__OPNPDE20090501_044704_000061042078_00348_37476_9056.N1	01MAY2009 04:47:04	01MAY2009 06:28:48	0	0	0	0	0
5	SCI_NL__OPNPDK20090501_062848_000040452078_00349_37477_1411.N1	01MAY2009 06:28:48	01MAY2009 07:36:13	0	0	0	0	0
6	SCI_NL__OPNPDK20090501_073504_000061732078_00350_37478_1412.N1	01MAY2009 07:35:04	01MAY2009 09:17:57	0	0	0	0	0
7	SCI_NL__OPNPDK20090501_091648_000060912078_00351_37479_1413.N1	01MAY2009 09:16:48	01MAY2009 10:58:20	1	1	0	0	0
8	SCI_NL__OPNPDK20090501_105724_000060362078_00352_37480_1414.N1	01MAY2009 10:57:24	01MAY2009 12:37:59	1	1	0	0	0
9	SCI_NL__OPNPDK20090501_123704_000059672078_00353_37481_1415.N1	01MAY2009 12:37:04	01MAY2009 14:16:31	0	0	0	0	0
10	SCI_NL__OPNPDK20090501_141522_000058552078_00354_37482_1416.N1	01MAY2009 14:15:22	01MAY2009 15:52:57	0	0	0	0	0
11	SCI_NL__OPNPDK20090501_155201_000058882078_00355_37483_1417.N1	01MAY2009 15:52:01	01MAY2009 17:30:09	0	0	0	0	0
12	SCI_NL__OPNPDK20090501_172901_000060762078_00356_37484_1418.N1	01MAY2009 17:29:01	01MAY2009 19:10:17	0	0	0	0	0
13	SCI_NL__OPNPDK20090501_190921_000059502078_00357_37485_1419.N1	01MAY2009 19:09:21	01MAY2009 20:48:31	0	0	0	0	0
14	SCI_NL__OPNPDE20090501_204639_000044802078_00358_37486_9057.N1	01MAY2009 20:46:39	01MAY2009 22:01:19	0	0	0	0	0
15	SCI_NL__OPNPDE20090501_215951_000062042078_00358_37486_9058.N1	01MAY2009 21:59:51	01MAY2009 23:43:15	0	0	0	0	0
16	SCI_NL__OPNPDE20090501_234241_000059892078_00359_37487_9059.N1	01MAY2009 23:42:41	02MAY2009 01:22:30	0	0	0	0	0

## 0.2 Product Quality Indicators

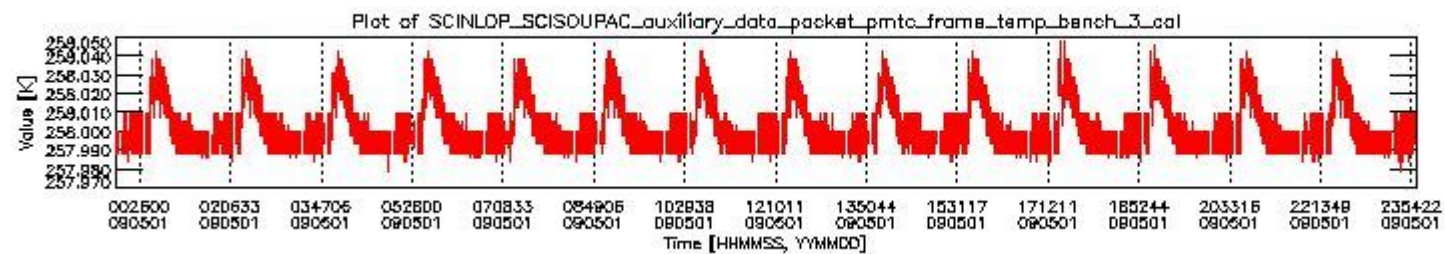
This section shows information about product quality, currently temperatures.



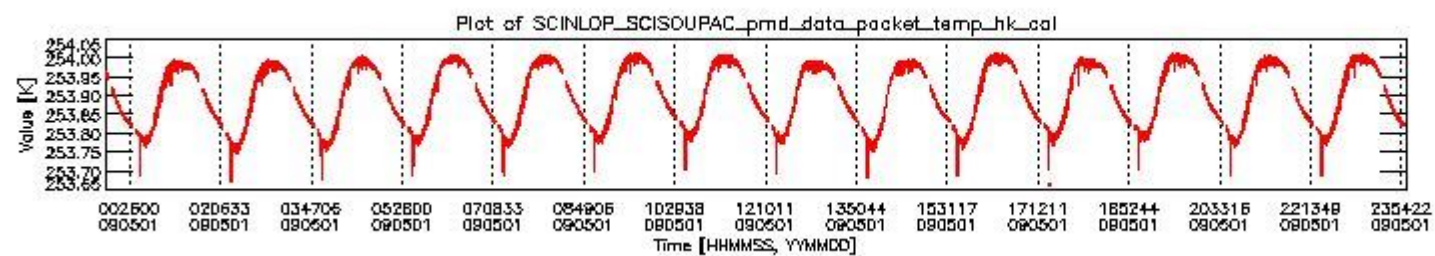
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090501\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090501\_1.PNG

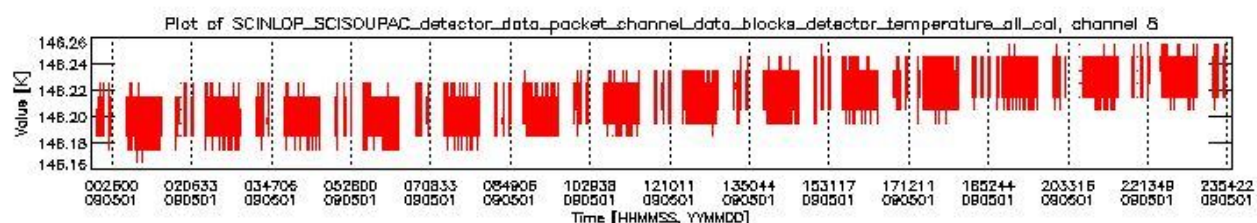
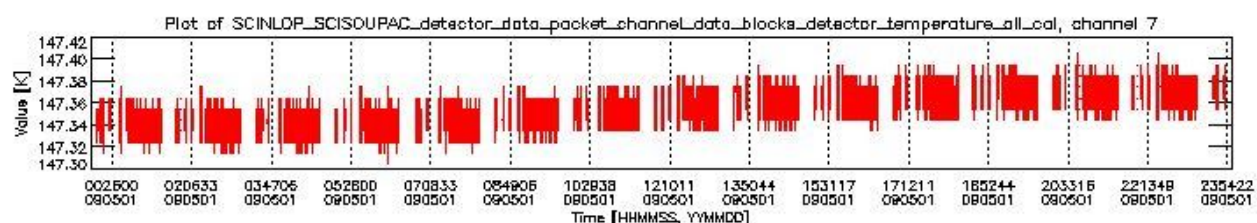
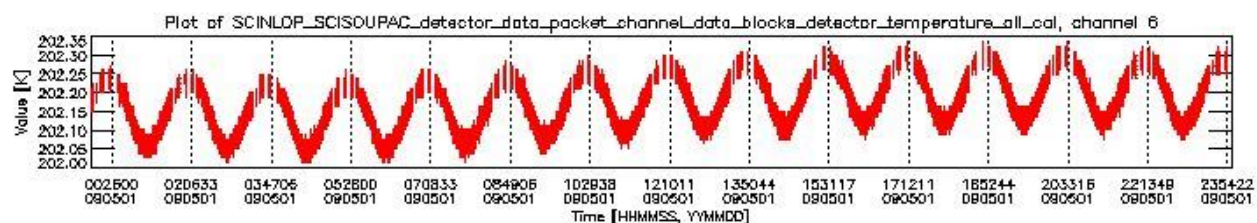
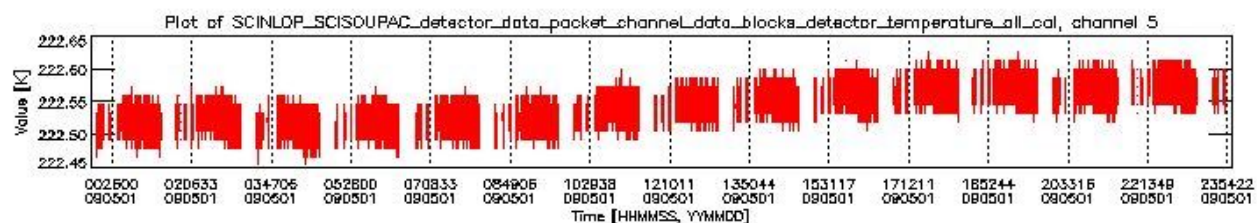
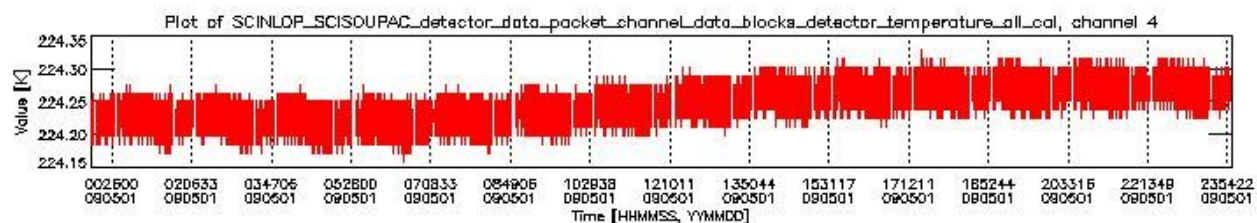
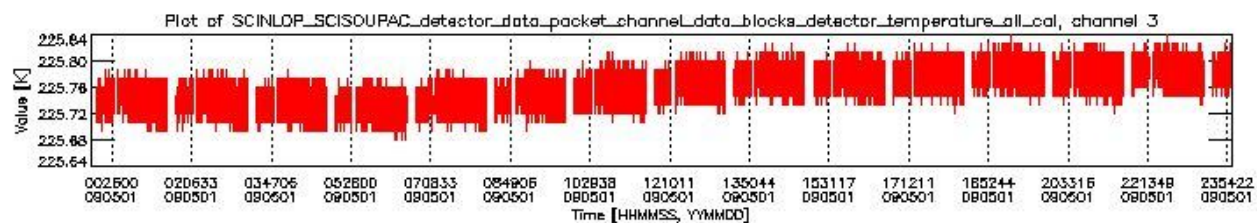
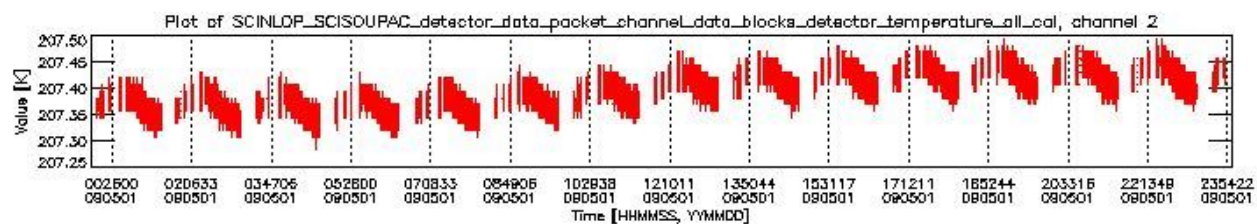
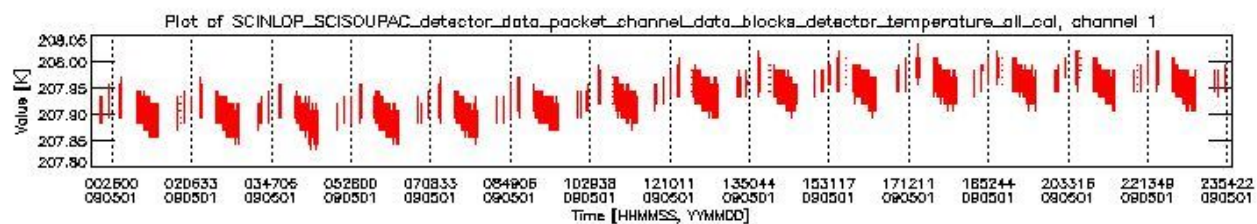


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090501\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090501\_3.PNG



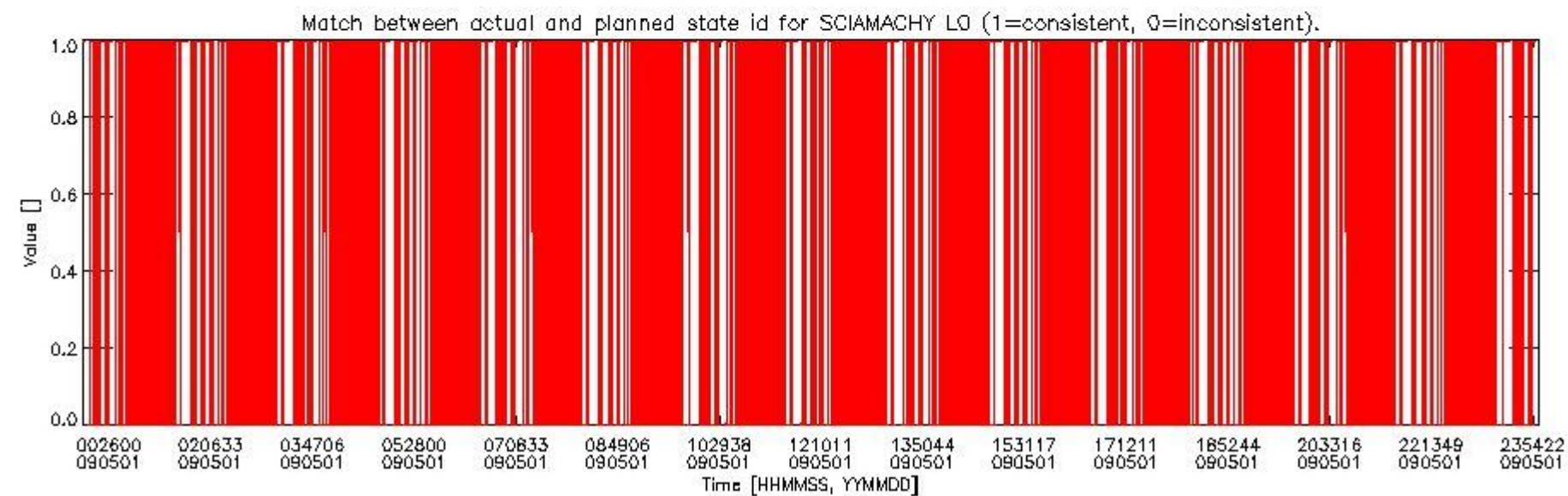
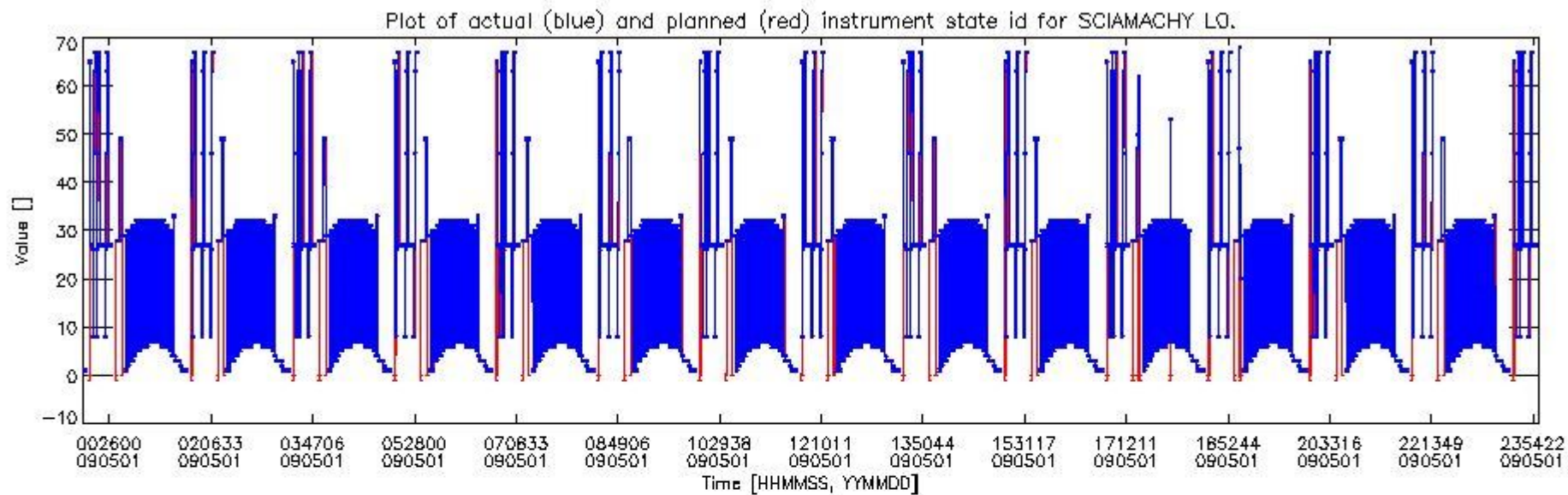


### 0.3 State monitoring

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: **49221**

#	Actual time	Actual value	Planned time	Planned value
0	01MAY2009 00:06:29.974388	65	01MAY2009 00:06:29.974388	0
1	01MAY2009 00:06:30.599410	65	01MAY2009 00:06:30.599410	0
2	01MAY2009 00:06:31.099387	65	01MAY2009 00:06:31.099387	0
3	01MAY2009 00:06:31.599405	65	01MAY2009 00:06:31.599405	0
4	01MAY2009 00:06:32.099382	65	01MAY2009 00:06:32.099382	0
5	01MAY2009 00:06:32.599399	65	01MAY2009 00:06:32.599399	0
6	01MAY2009 00:06:33.099417	65	01MAY2009 00:06:33.099417	0
7	01MAY2009 00:06:33.599394	65	01MAY2009 00:06:33.599394	0
8	01MAY2009 00:06:34.099411	65	01MAY2009 00:06:34.099411	0
9	01MAY2009 00:06:34.599389	65	01MAY2009 00:06:34.599389	0
10	01MAY2009 00:06:34.974402	65	01MAY2009 00:06:34.974402	0
11	01MAY2009 00:06:35.099406	65	01MAY2009 00:06:35.099406	0
12	01MAY2009 00:06:35.599383	65	01MAY2009 00:06:35.599383	0
13	01MAY2009 00:06:36.099401	65	01MAY2009 00:06:36.099401	0
14	01MAY2009 00:06:36.599418	65	01MAY2009 00:06:36.599418	0
15	01MAY2009 00:06:37.099395	65	01MAY2009 00:06:37.099395	0
16	01MAY2009 00:06:37.599413	65	01MAY2009 00:06:37.599413	0
17	01MAY2009 00:06:38.099390	65	01MAY2009 00:06:38.099390	0
18	01MAY2009 00:07:13.728325	27	01MAY2009 00:07:13.728325	0
19	01MAY2009 00:07:14.728320	27	01MAY2009 00:07:14.728320	0
	...	...	...	...



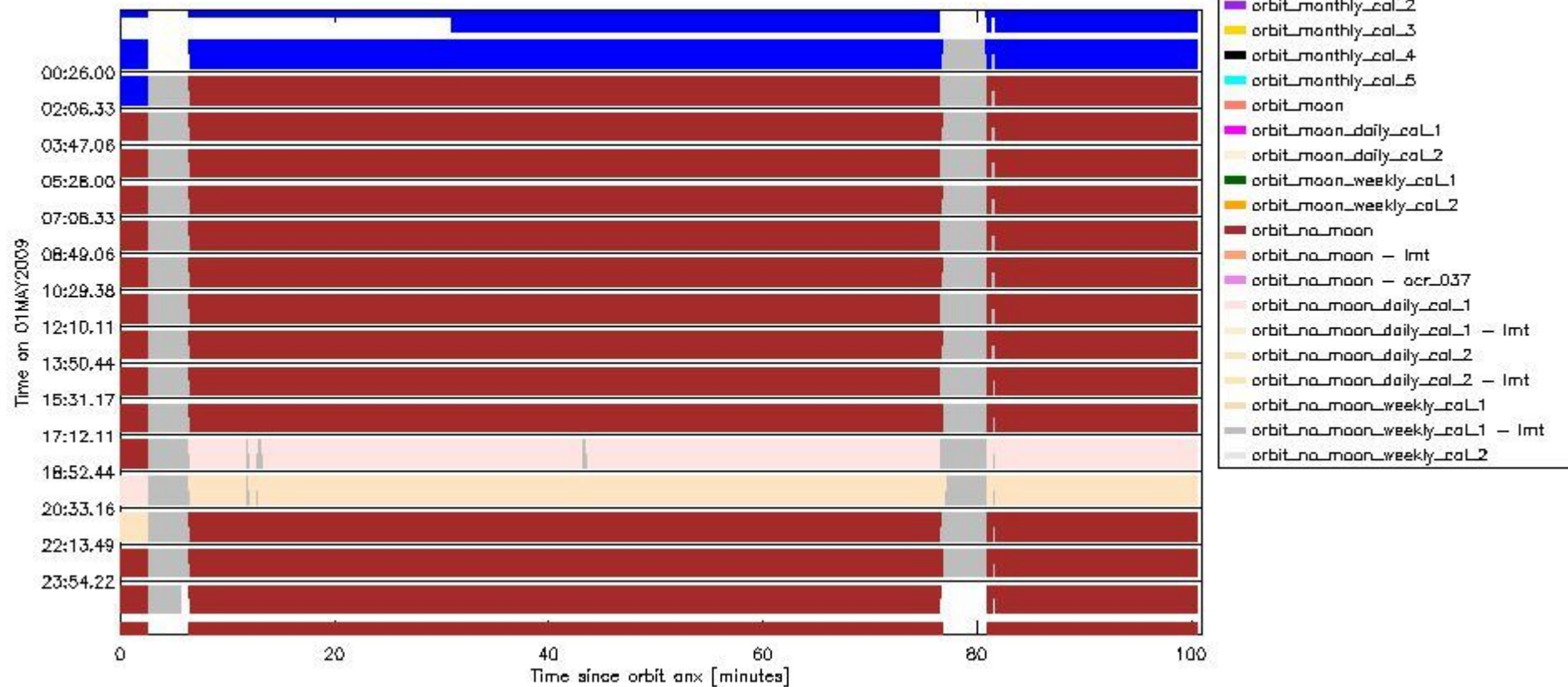
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090501\_5.PNG

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 01MAY2009.  
 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\_20090501\_6.PNG

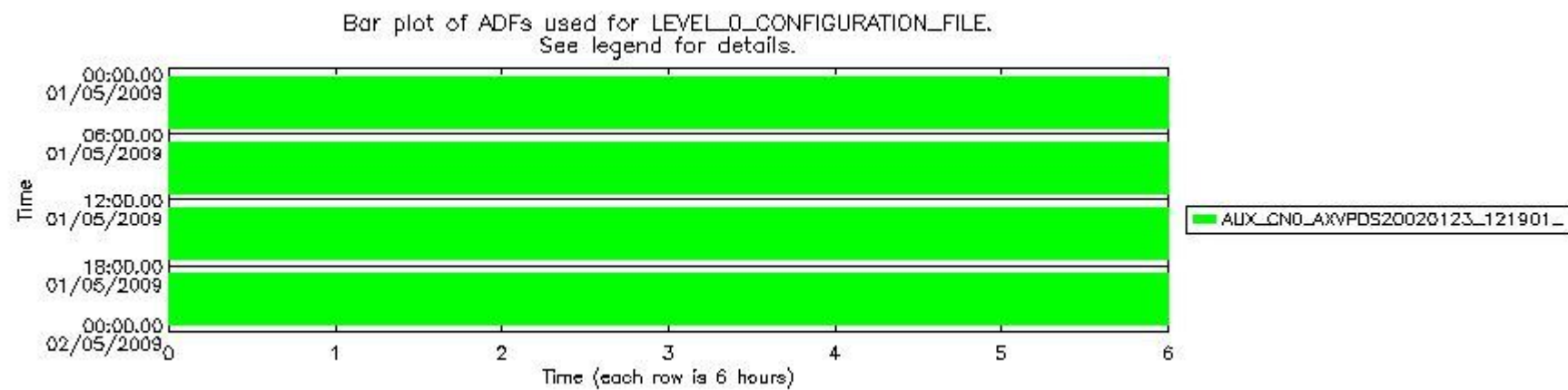
## 0.4 ADF monitoring

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

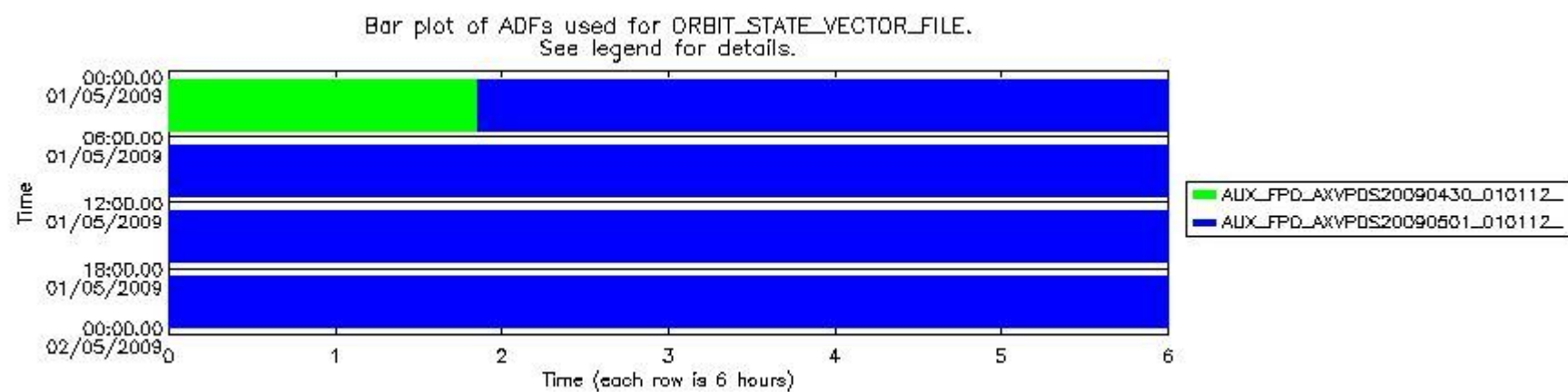
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

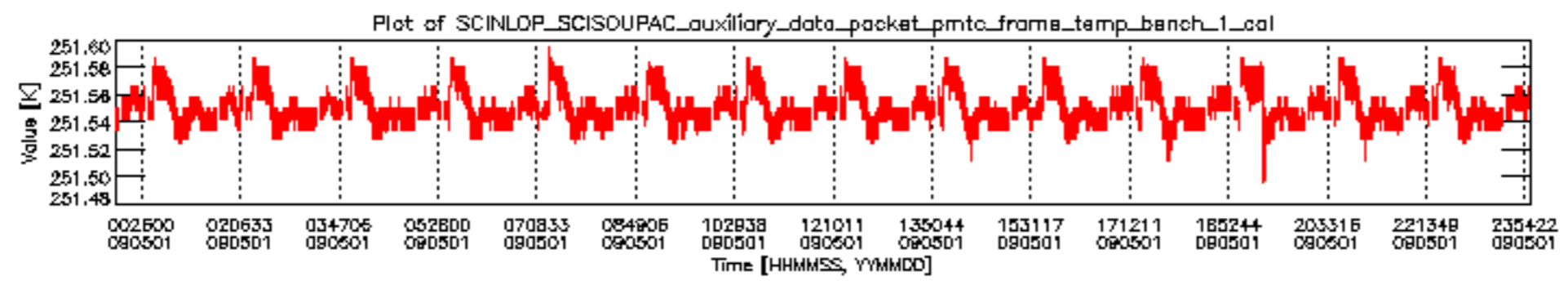
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090430_010112_20090429_195552_20090509_212206
2	AUX_FPO_AXVPDS20090501_010112_20090430_192415_20090510_205029



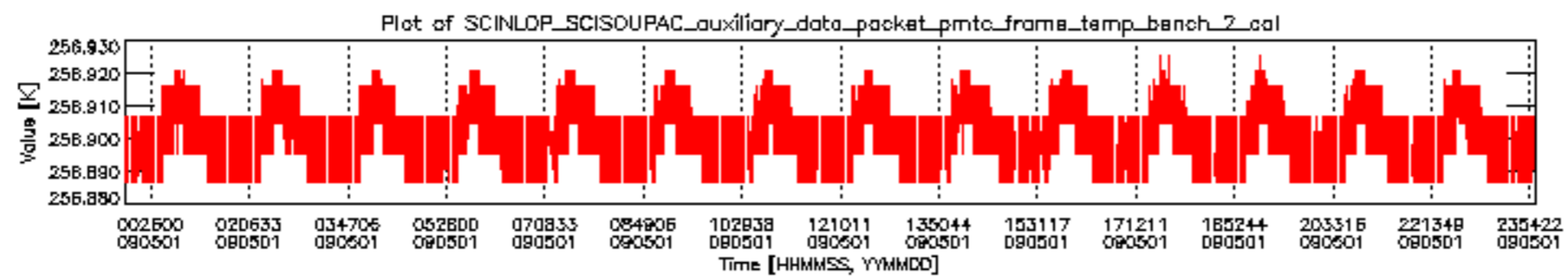
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090501\_7.PNG

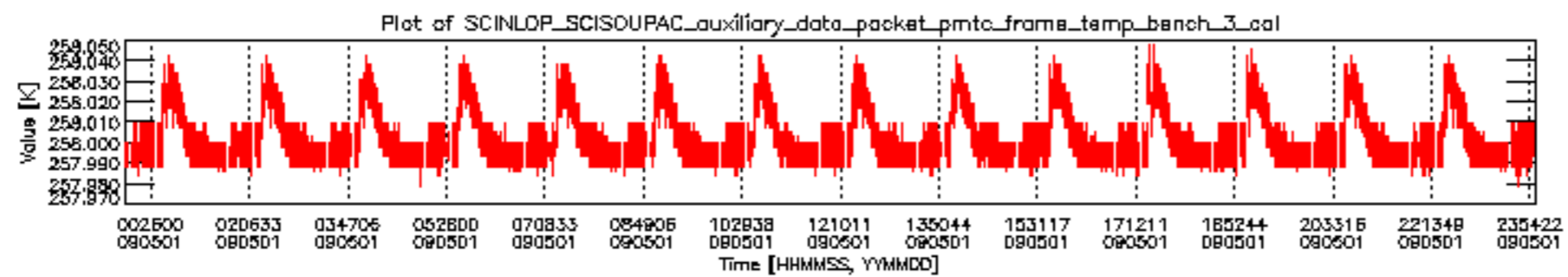


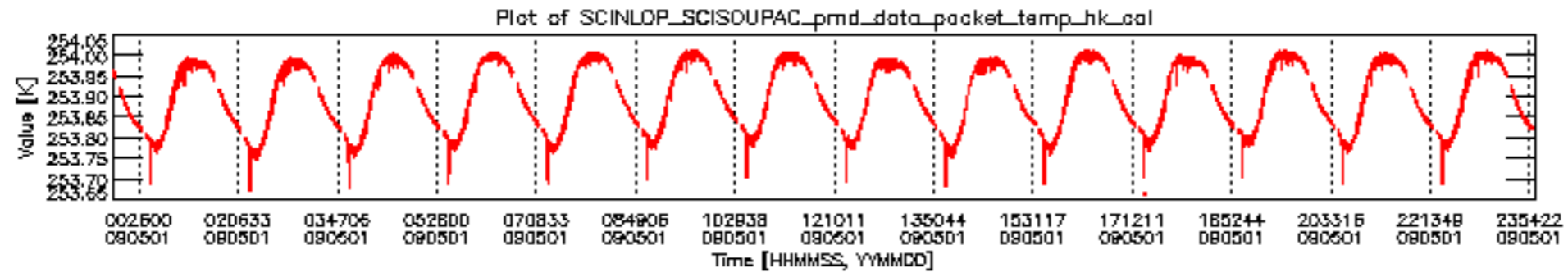
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090501\_8.PNG

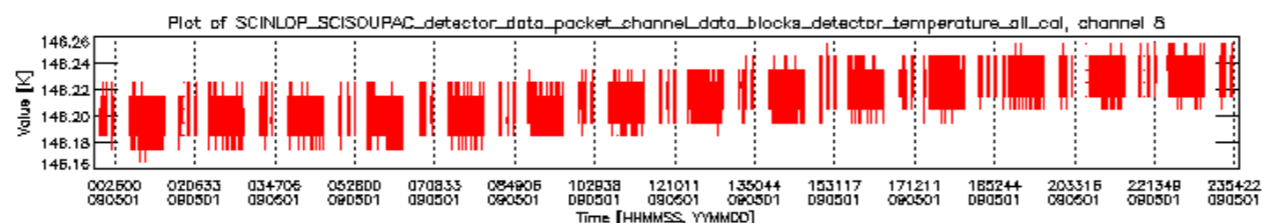
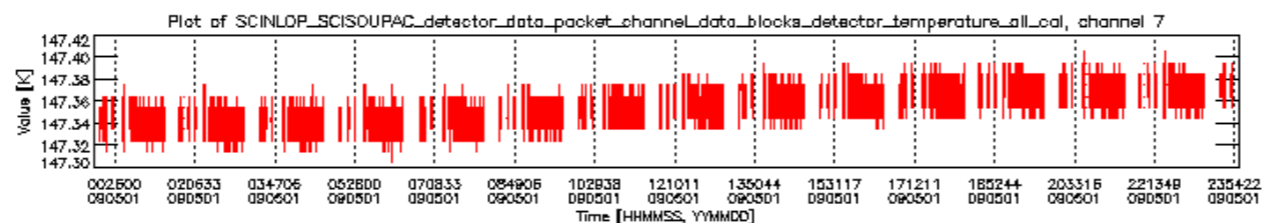
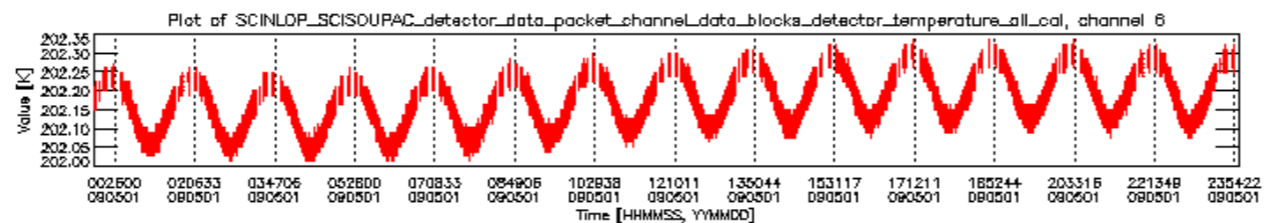
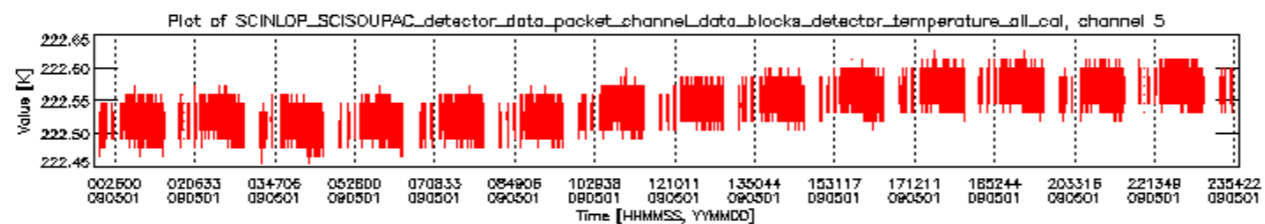
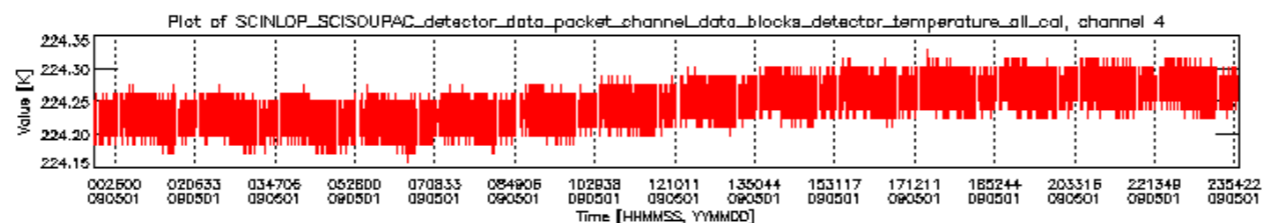
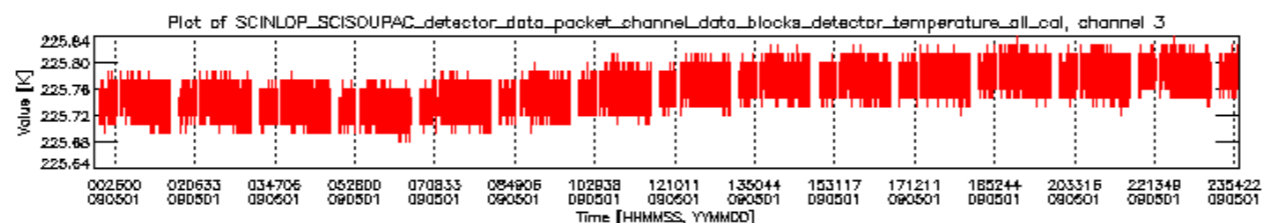
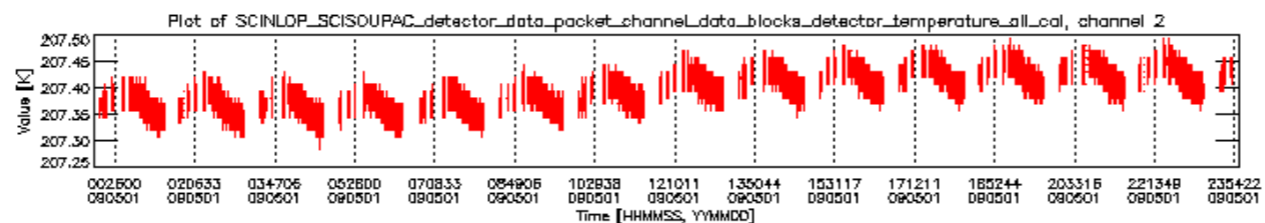
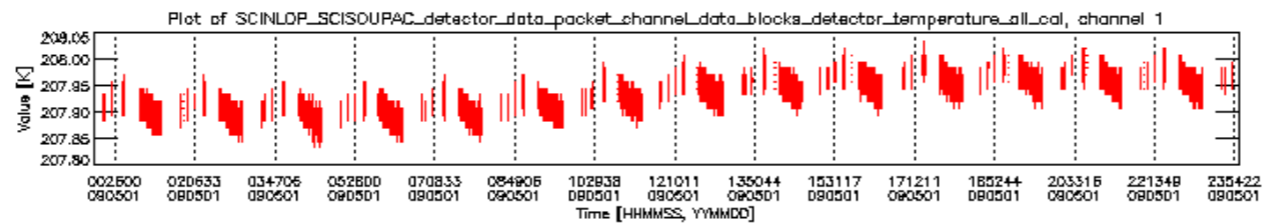




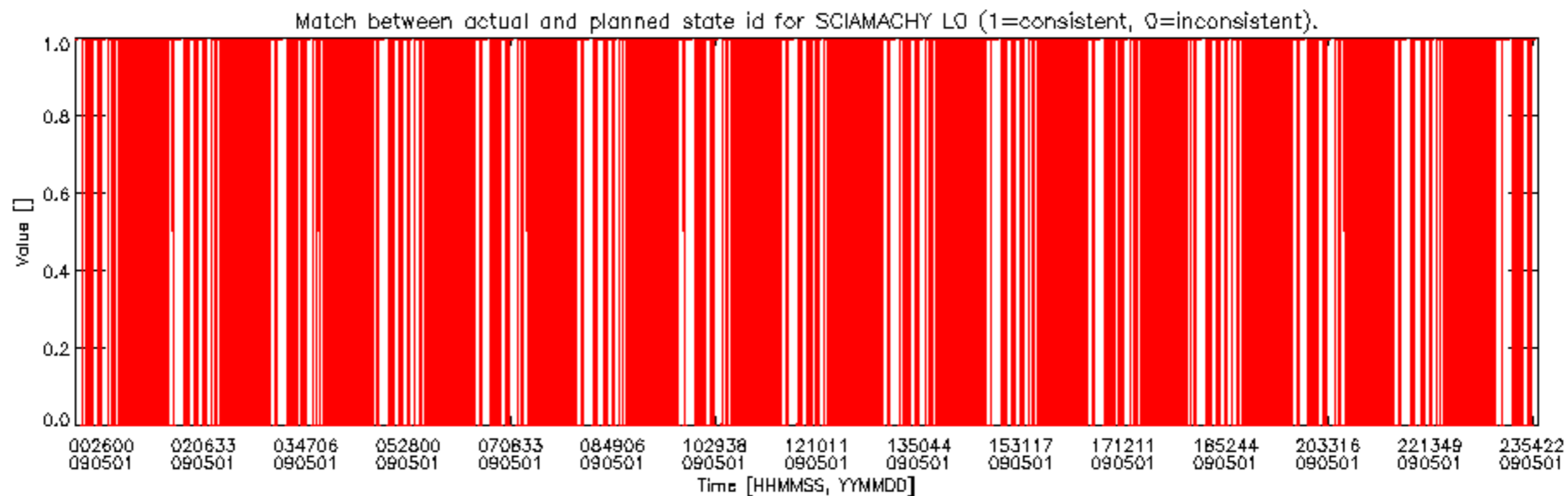
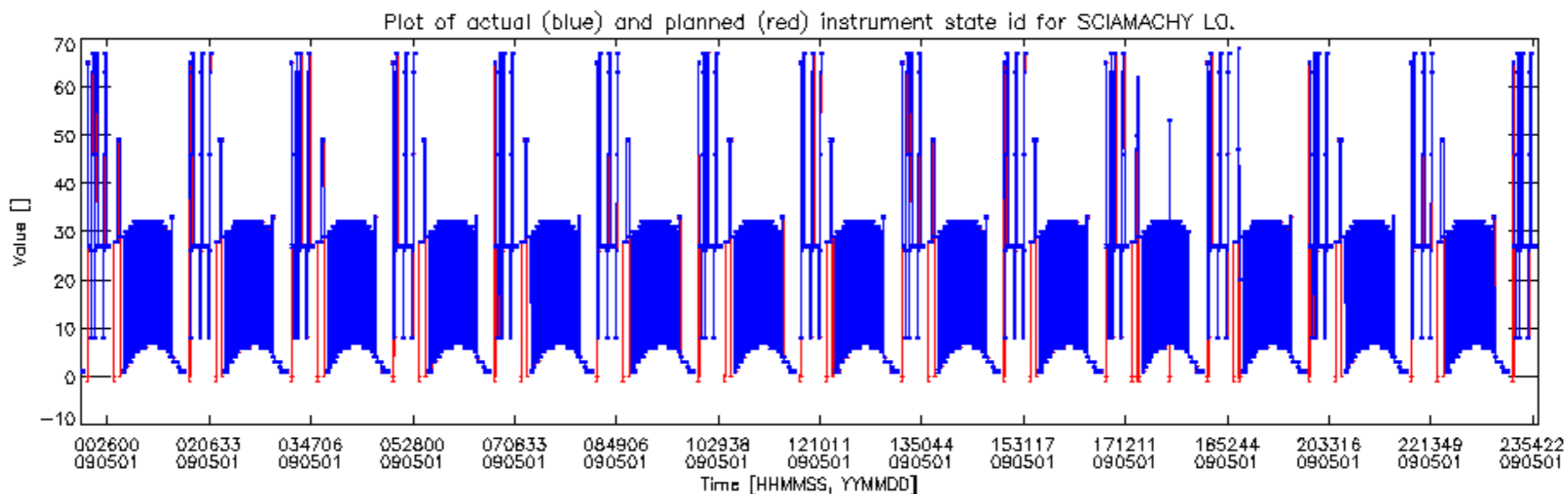




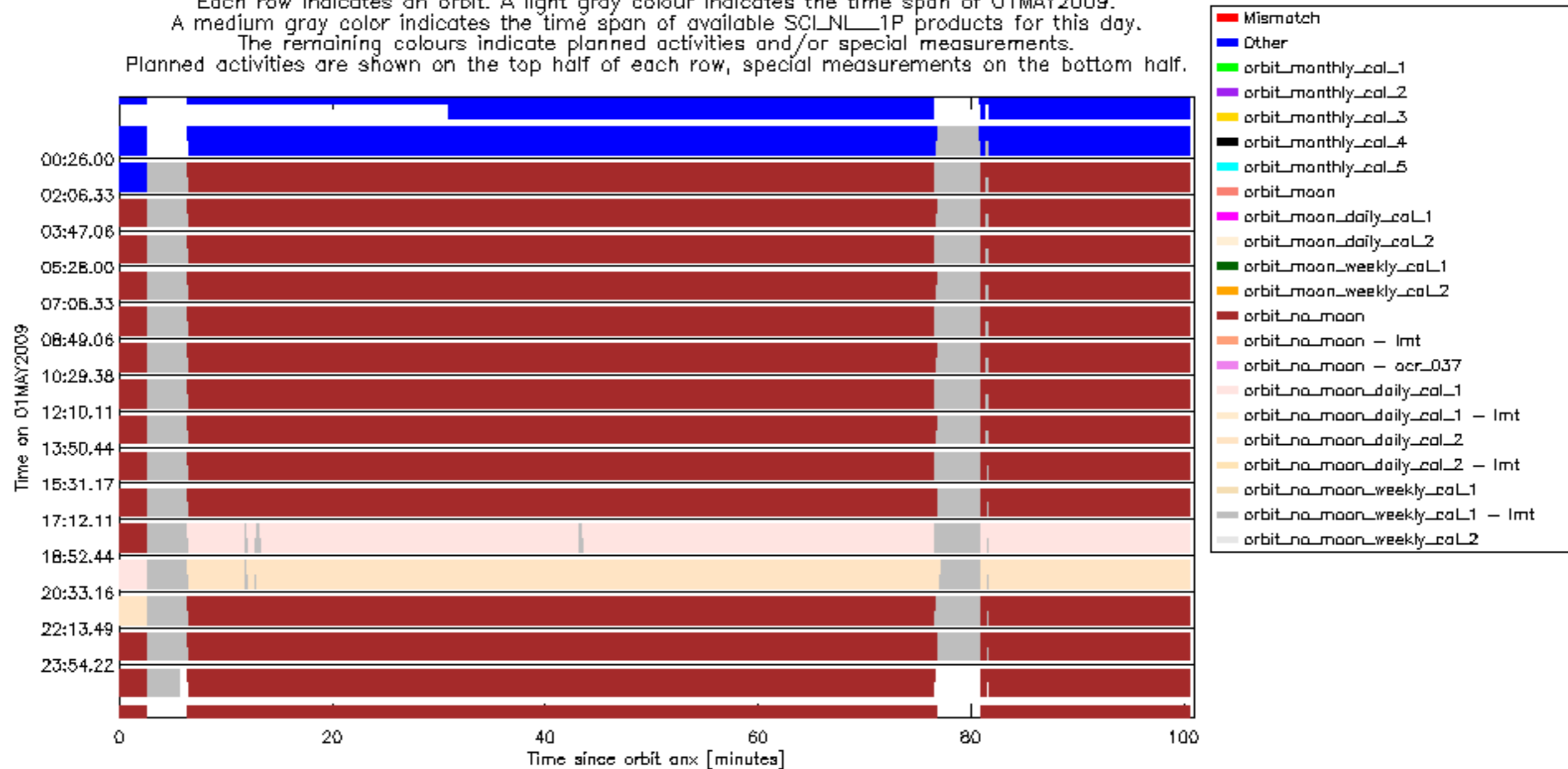


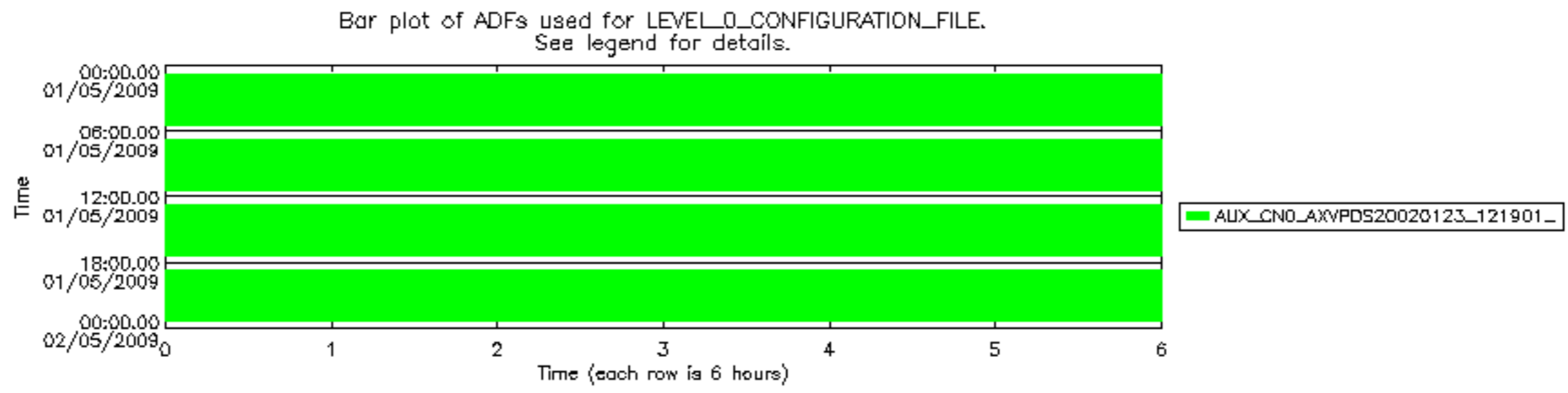






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 01MAY2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.





Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

