

## 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	31MAY2009 05:31:23
Data source version	KSPT_L0/4303-N
Processing scope for products	27MAY2009 00:00:00 to 28MAY2009 00:00:00
Start time of first product within scope	26MAY2009 23:57:21
Stop time of last product within scope	28MAY2009 01:06:05
Total number of level 0 products	16
Number of level 0 products with errors	3

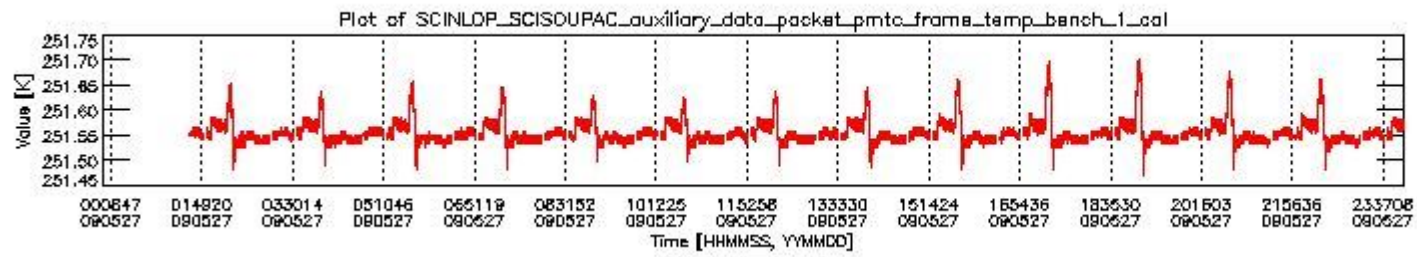
### 0.1.2 Summary per product

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

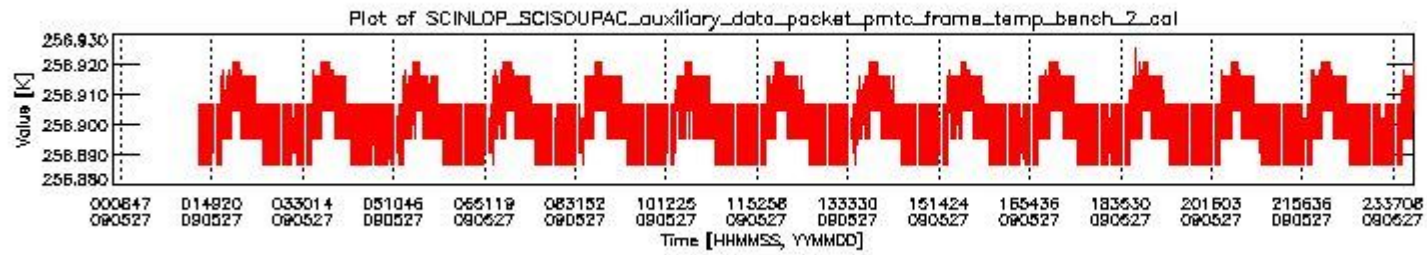
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090526_235721_000059402079_00216_37845_9225.N1	26MAY2009 23:57:21	27MAY2009 01:36:21	0	0	0	0	0
1	SCI_NL__OPNPDE20090527_013534_000046392079_00217_37846_9226.N1	27MAY2009 01:35:34	27MAY2009 02:52:53	0	0	0	0	0
2	SCI_NL__OPNPDE20090527_025253_000058552079_00218_37847_9227.N1	27MAY2009 02:52:53	27MAY2009 04:30:28	0	0	0	0	0
3	SCI_NL__OPNPDE20090527_042920_000061602079_00219_37848_9228.N1	27MAY2009 04:29:20	27MAY2009 06:12:00	0	0	0	0	0
4	SCI_NL__OPNPDK20090527_061052_000041132079_00220_37849_1646.N1	27MAY2009 06:10:52	27MAY2009 07:19:25	0	0	0	0	0
5	SCI_NL__OPNPDK20090527_071925_000061602079_00221_37850_1647.N1	27MAY2009 07:19:25	27MAY2009 09:02:05	0	0	0	0	0
6	SCI_NL__OPNPDK20090527_090057_000059802079_00222_37851_1648.N1	27MAY2009 09:00:57	27MAY2009 10:40:36	1	1	0	0	0
7	SCI_NL__OPNPDK20090527_104036_000059672079_00223_37852_1649.N1	27MAY2009 10:40:36	27MAY2009 12:20:04	1	1	0	0	0
8	SCI_NL__OPNPDK20090527_121908_000059802079_00224_37853_1650.N1	27MAY2009 12:19:08	27MAY2009 13:58:47	1	1	0	0	0
9	SCI_NL__OPNPDK20090527_135847_000058992079_00225_37854_1651.N1	27MAY2009 13:58:47	27MAY2009 15:37:06	0	0	0	0	0
10	SCI_NL__OPNPDK20090527_153610_000058022079_00226_37855_1652.N1	27MAY2009 15:36:10	27MAY2009 17:12:52	0	0	0	0	0
11	SCI_NL__OPNPDK20090527_171048_000061602079_00227_37856_1653.N1	27MAY2009 17:10:48	27MAY2009 18:53:28	0	0	0	0	0
12	SCI_NL__OPNPDK20090527_185220_000059092079_00228_37857_1654.N1	27MAY2009 18:52:20	27MAY2009 20:30:48	0	0	0	0	0
13	SCI_NL__OPNPDE20090527_202844_000044862079_00229_37858_9229.N1	27MAY2009 20:28:44	27MAY2009 21:43:30	0	0	0	0	0
14	SCI_NL__OPNPDE20090527_214256_000061212079_00229_37858_9230.N1	27MAY2009 21:42:56	27MAY2009 23:24:57	0	0	0	0	0
15	SCI_NL__OPNPDE20090527_232329_000061552079_00230_37859_9231.N1	27MAY2009 23:23:29	28MAY2009 01:06:05	0	0	0	0	0

## 0.2 Product Quality Indicators

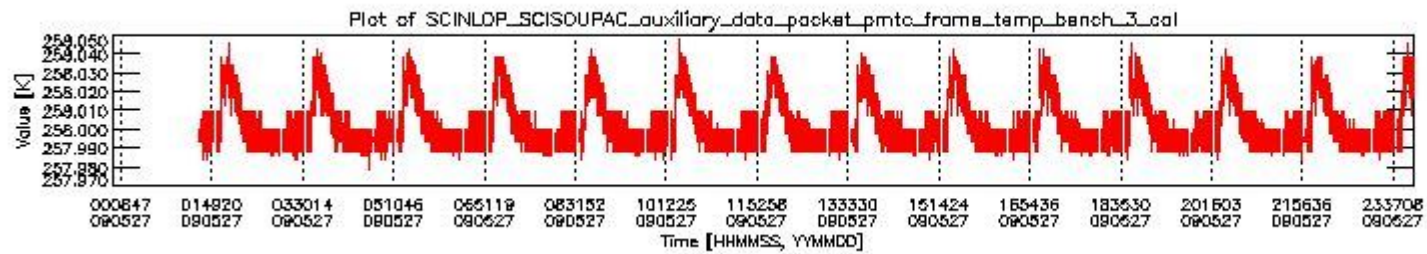
This section shows information about product quality, currently temperatures.



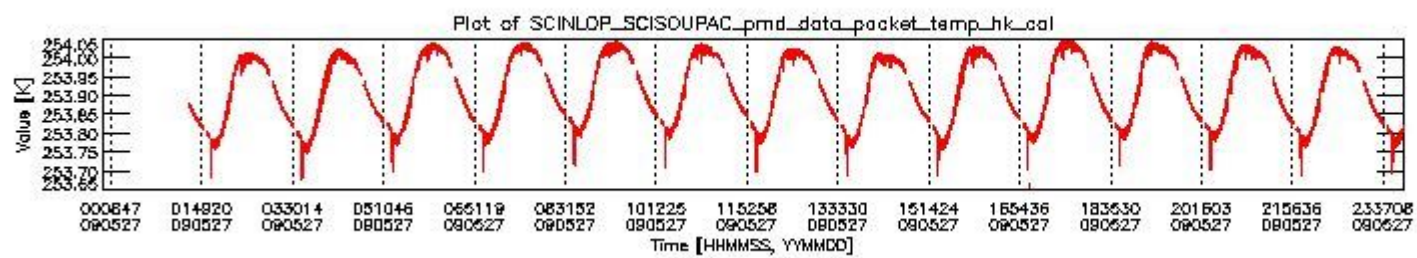
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090527\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090527\_1.PNG

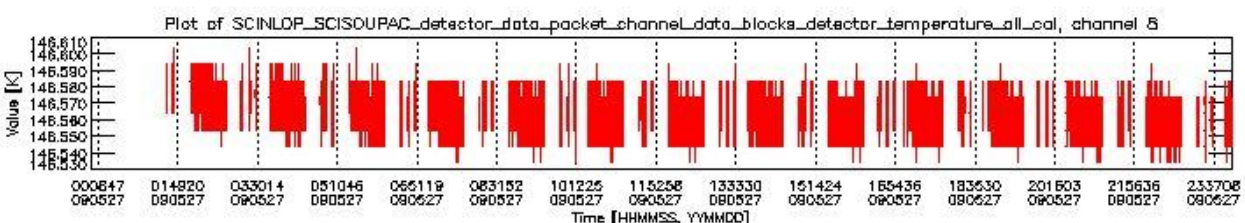
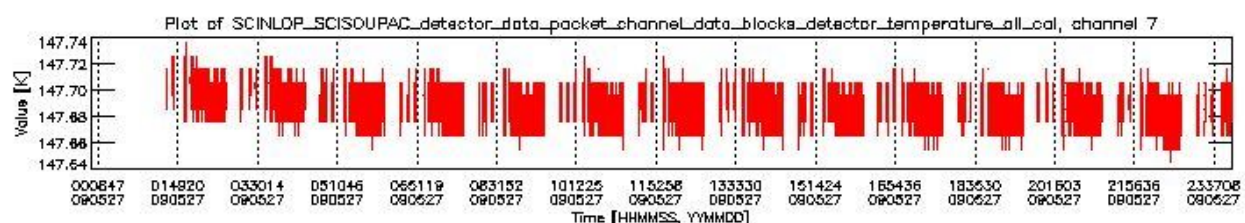
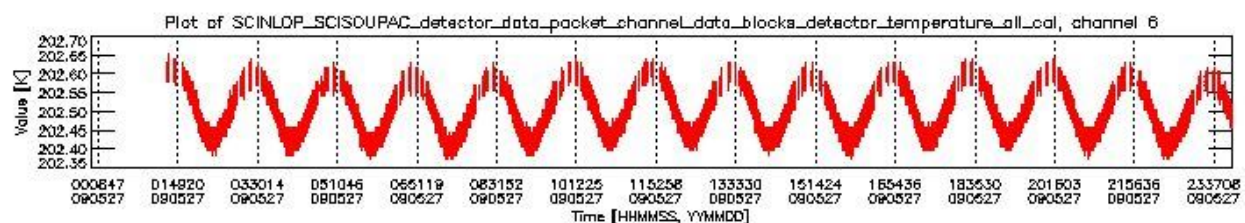
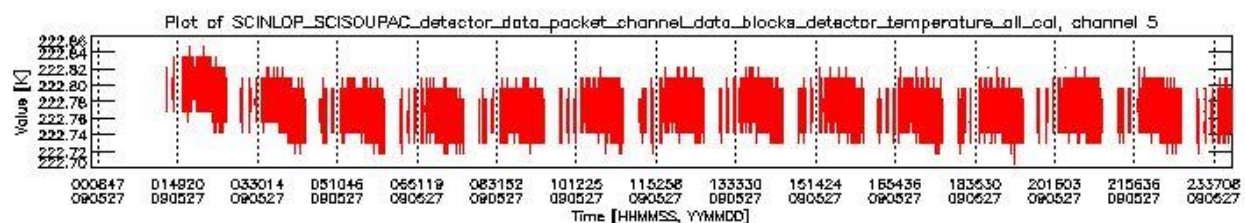
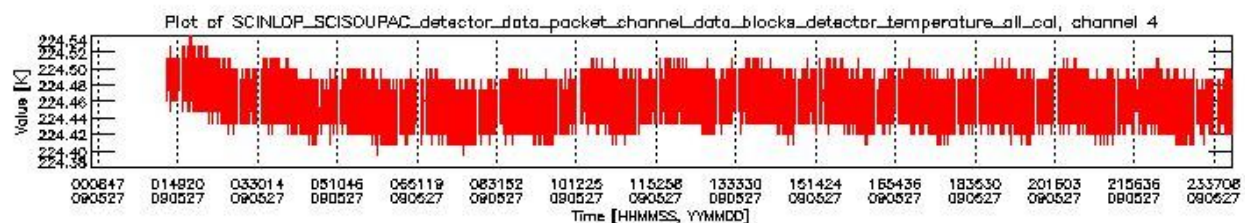
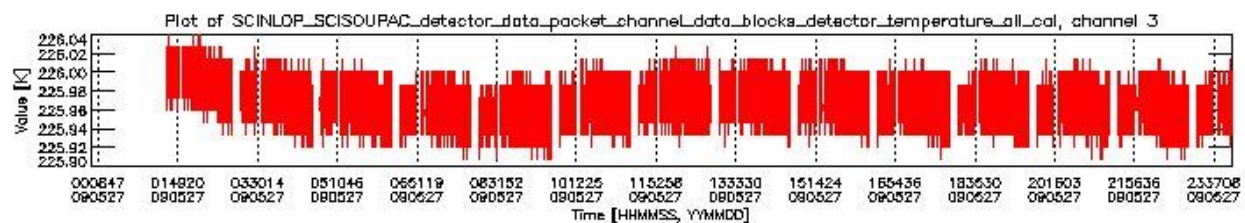
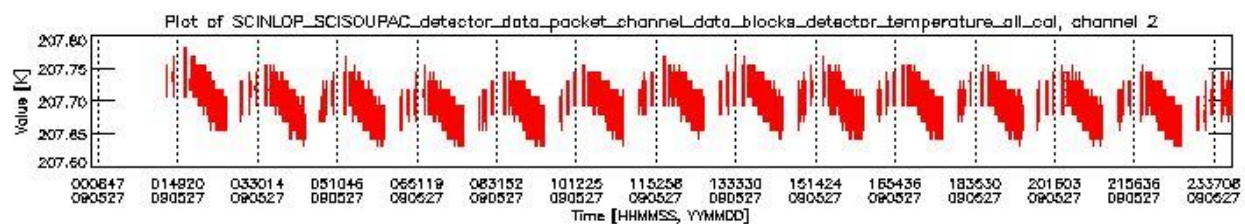
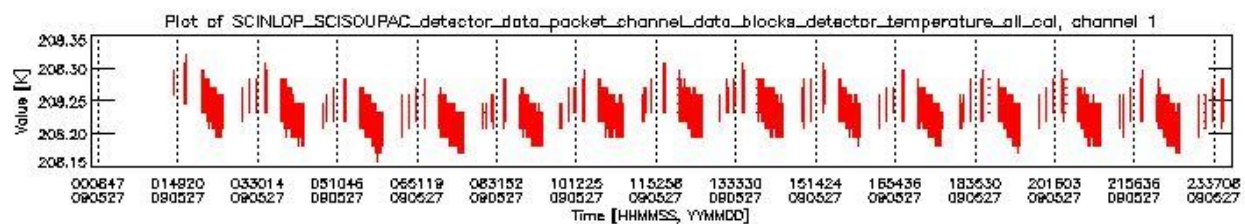


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090527\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090527\_3.PNG



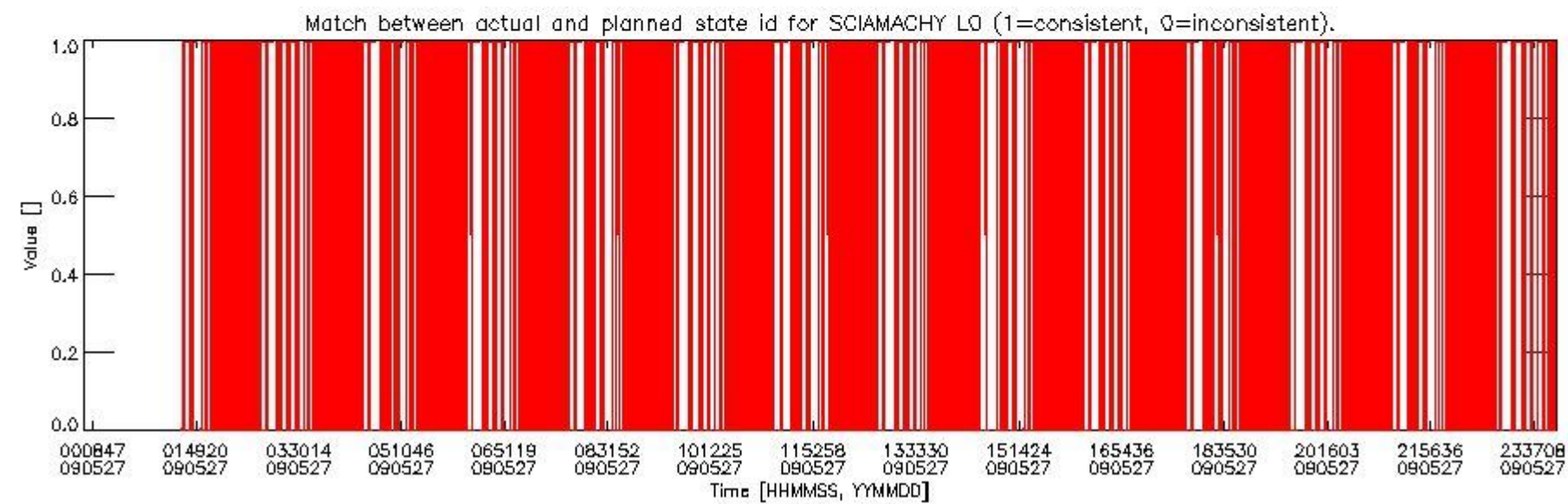
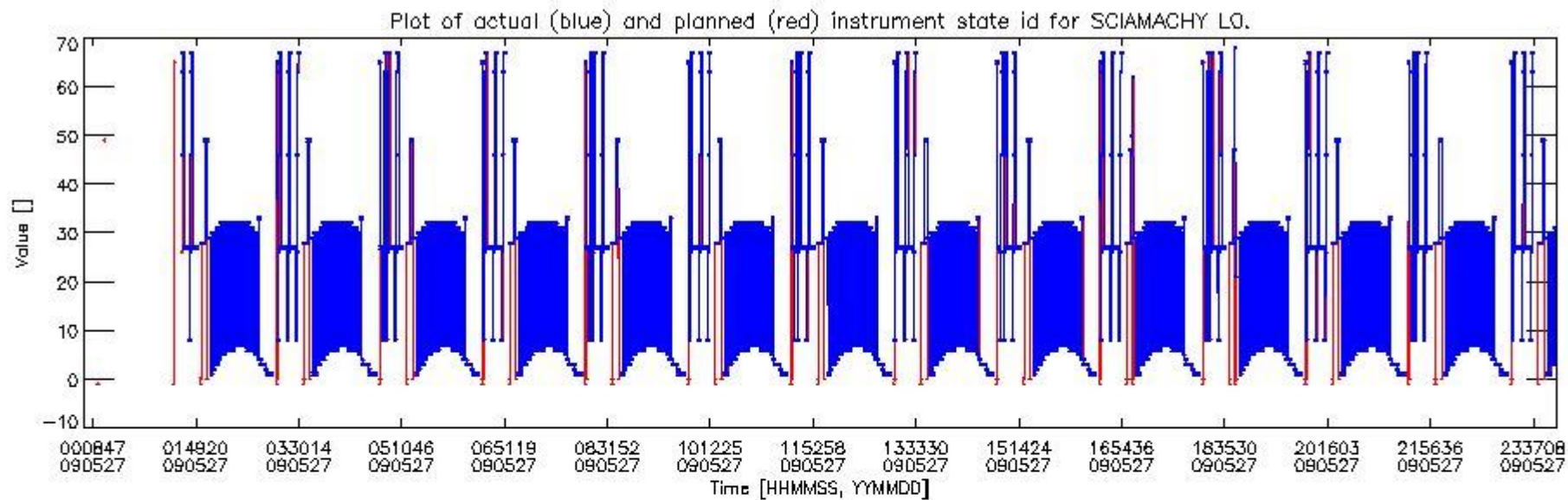


### 0.3 State monitoring

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: **39365**

#	Actual time	Actual value	Planned time	Planned value
0	27MAY2009 01:35:34.391950	46	27MAY2009 01:35:34.391950	26
1	27MAY2009 01:35:37.016961	46	27MAY2009 01:35:37.016961	26
2	27MAY2009 01:35:37.516978	46	27MAY2009 01:35:37.516978	26
3	27MAY2009 01:35:38.016956	46	27MAY2009 01:35:38.016956	26
4	27MAY2009 01:35:38.516973	46	27MAY2009 01:35:38.516973	26
5	27MAY2009 01:35:39.016950	46	27MAY2009 01:35:39.016950	26
6	27MAY2009 01:35:39.391963	46	27MAY2009 01:35:39.391963	26
7	27MAY2009 01:35:39.516968	46	27MAY2009 01:35:39.516968	26
8	27MAY2009 01:35:40.016985	46	27MAY2009 01:35:40.016985	26
9	27MAY2009 01:35:40.516962	46	27MAY2009 01:35:40.516962	26
10	27MAY2009 01:35:41.016980	46	27MAY2009 01:35:41.016980	26
11	27MAY2009 01:35:41.516957	46	27MAY2009 01:35:41.516957	26
12	27MAY2009 01:35:42.016974	46	27MAY2009 01:35:42.016974	26
13	27MAY2009 01:35:42.516951	46	27MAY2009 01:35:42.516951	26
14	27MAY2009 01:35:43.016969	46	27MAY2009 01:35:43.016969	26
15	27MAY2009 01:35:43.516986	46	27MAY2009 01:35:43.516986	26
16	27MAY2009 01:35:47.950557	63	27MAY2009 01:35:47.950557	46
17	27MAY2009 01:35:48.575579	63	27MAY2009 01:35:48.575579	46
18	27MAY2009 01:35:49.075556	63	27MAY2009 01:35:49.075556	46
19	27MAY2009 01:35:49.575573	63	27MAY2009 01:35:49.575573	46
	...	...	...	...



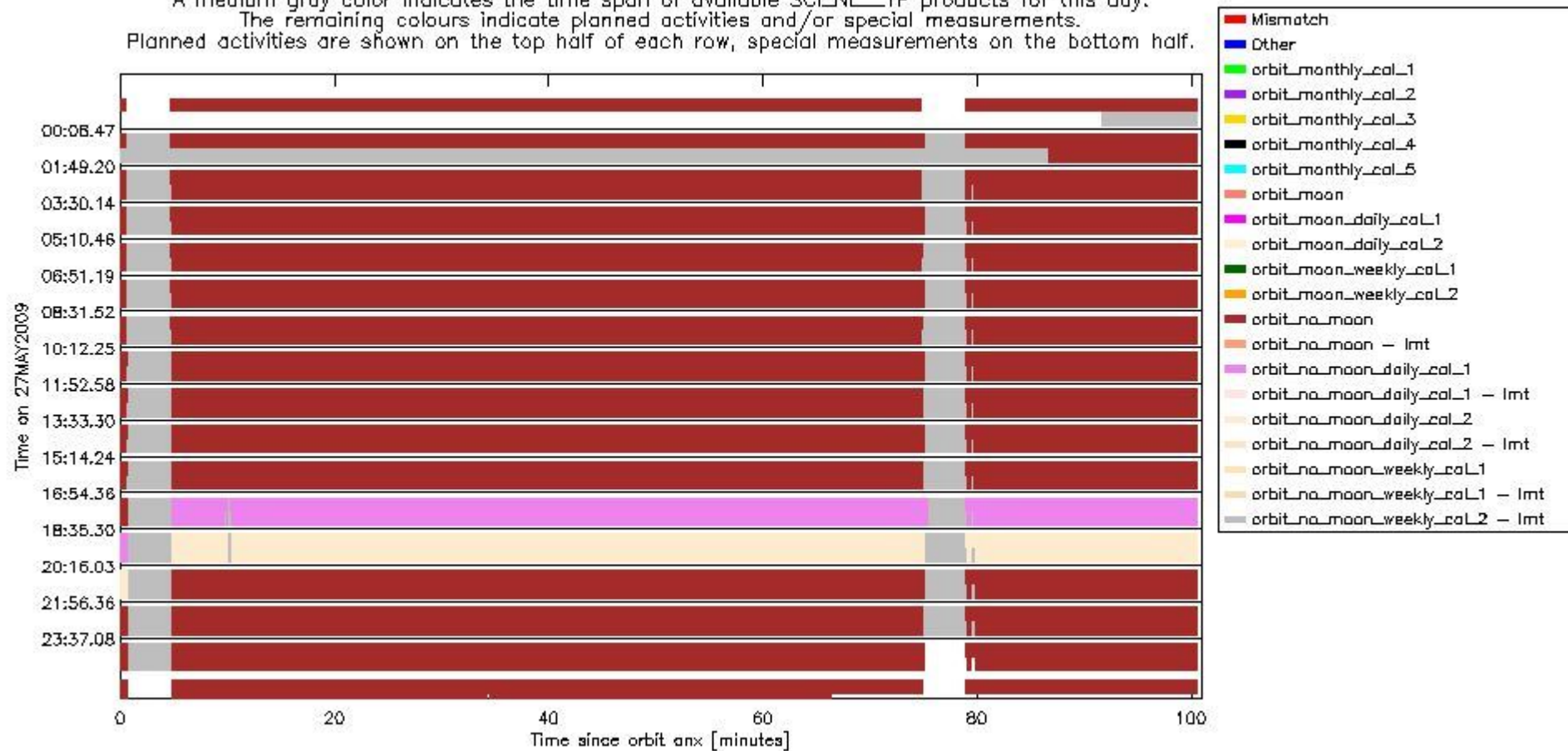
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090527\_5.PNG

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 27MAY2009.  
 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\_20090527\_6.PNG

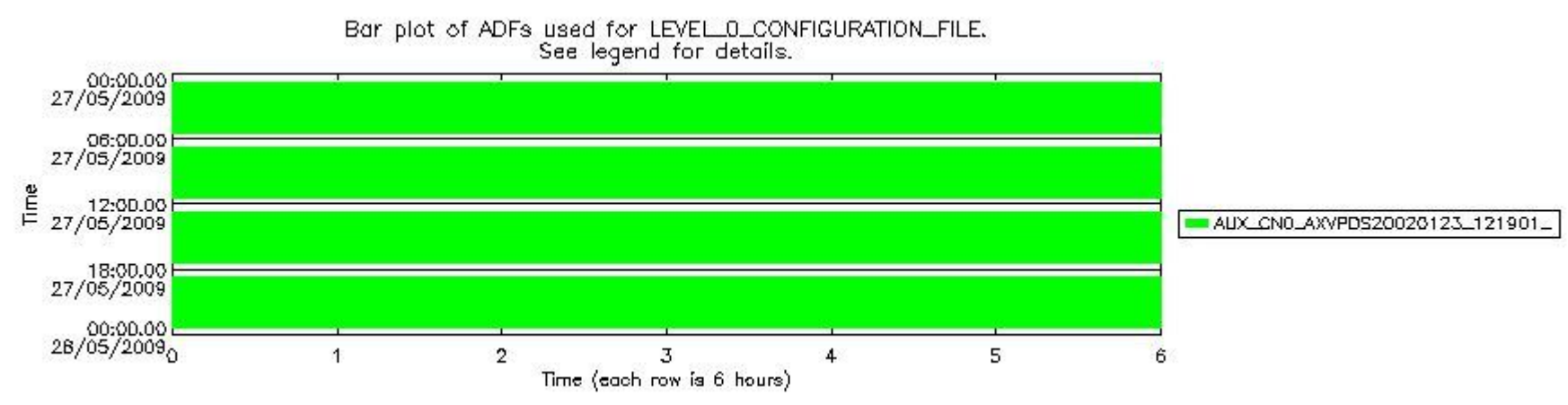
## 0.4 ADF monitoring

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

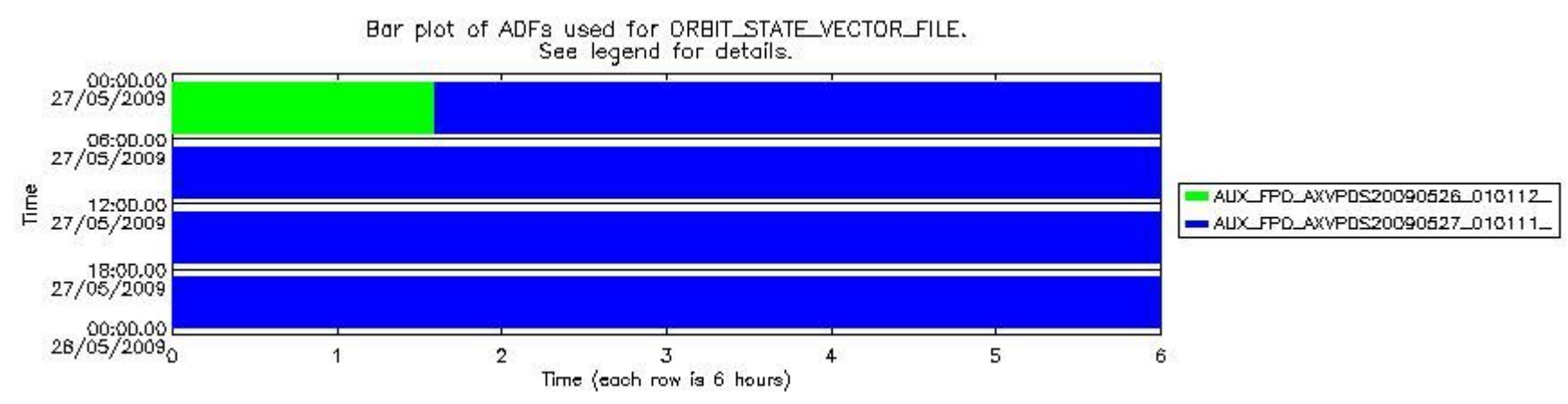
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

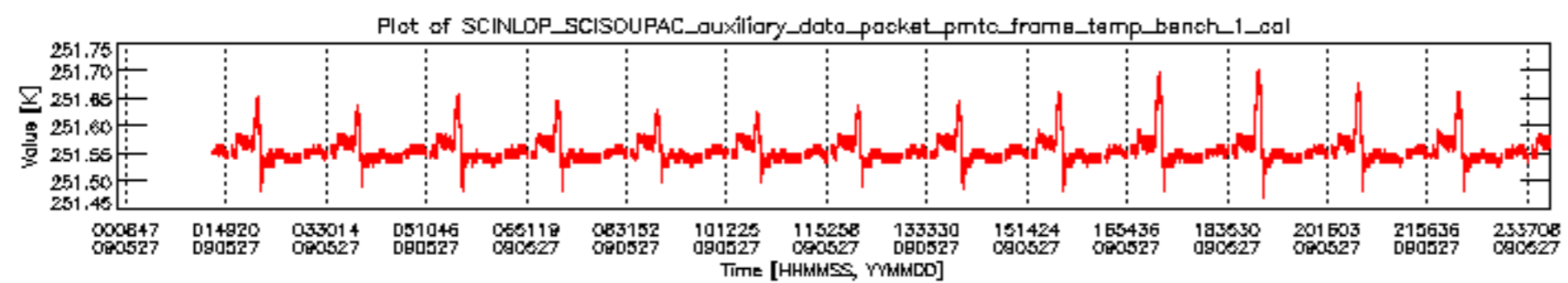
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20090526_010112_20090525_193838_20090604_210453</b>
2	<b>AUX_FPO_AXVPDS20090527_010111_20090526_190701_20090605_203316</b>



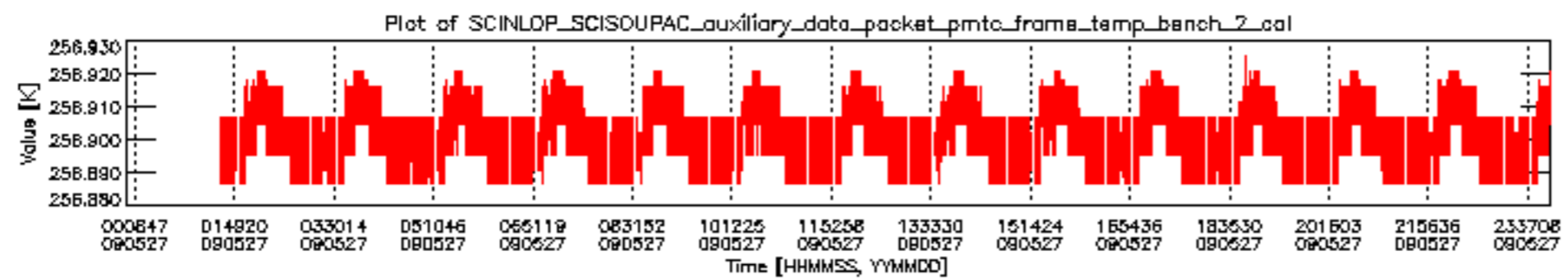
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090527\_7.PNG

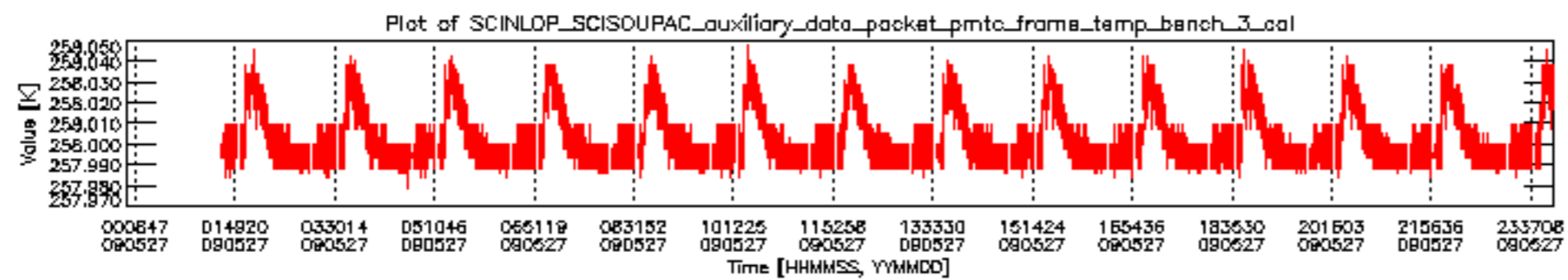


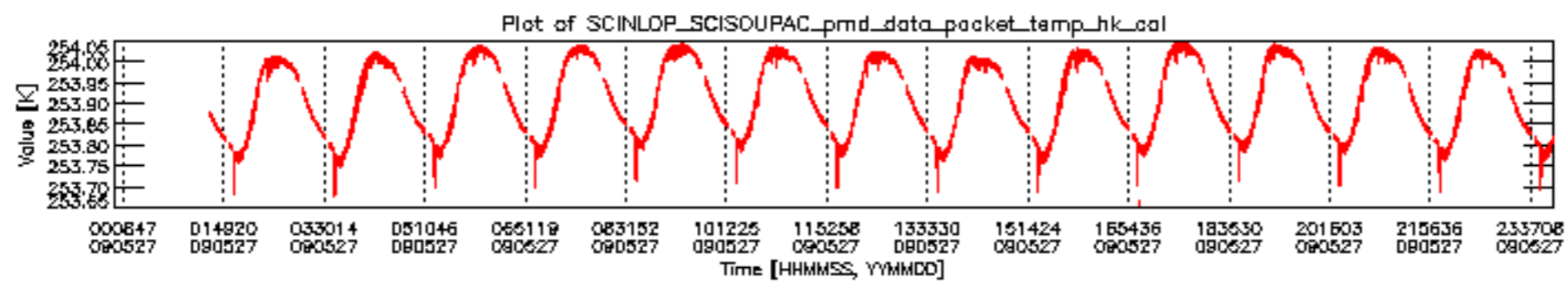
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090527\_8.PNG

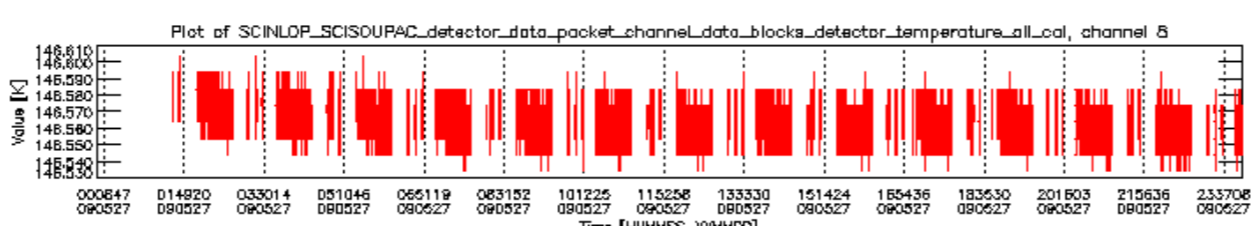
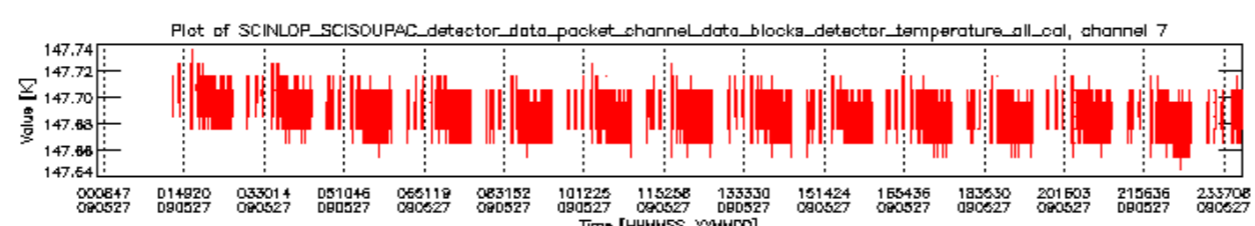
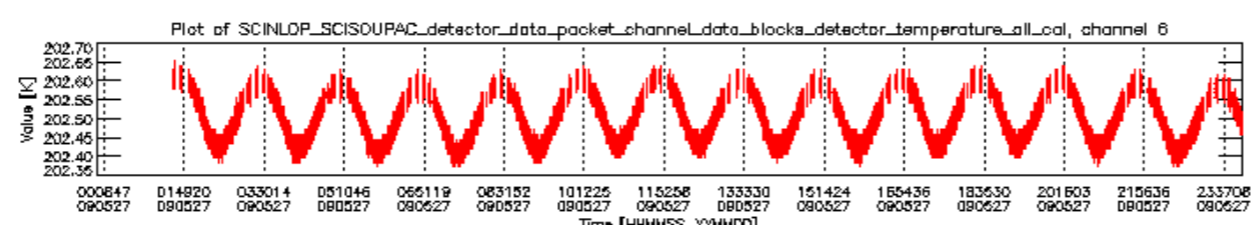
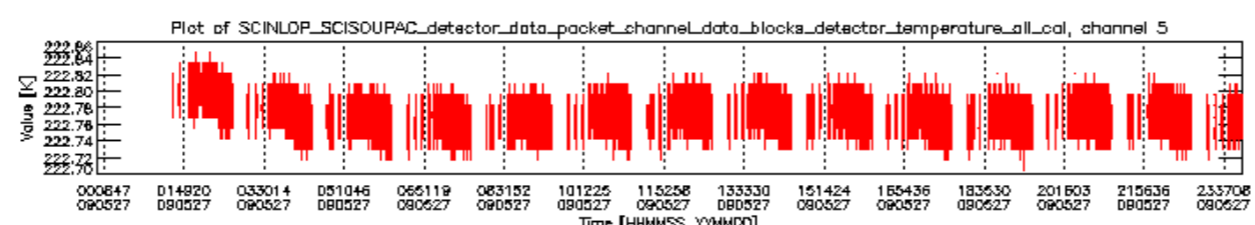
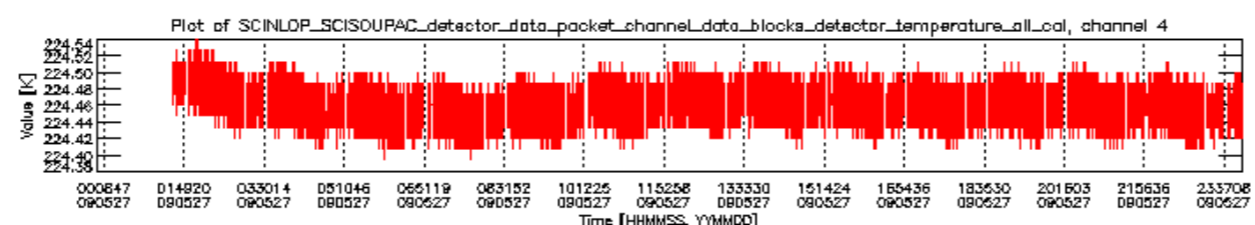
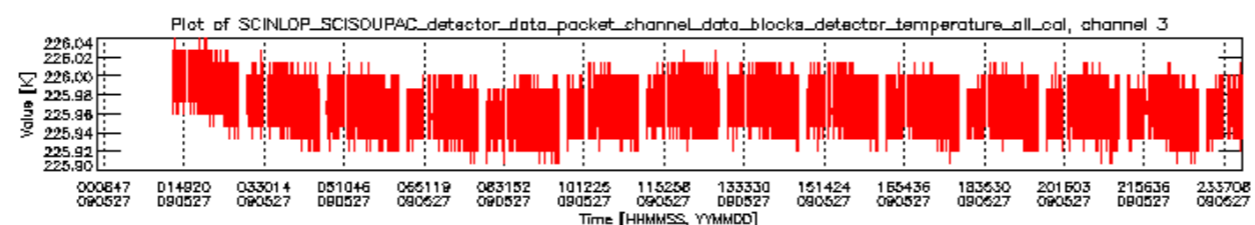
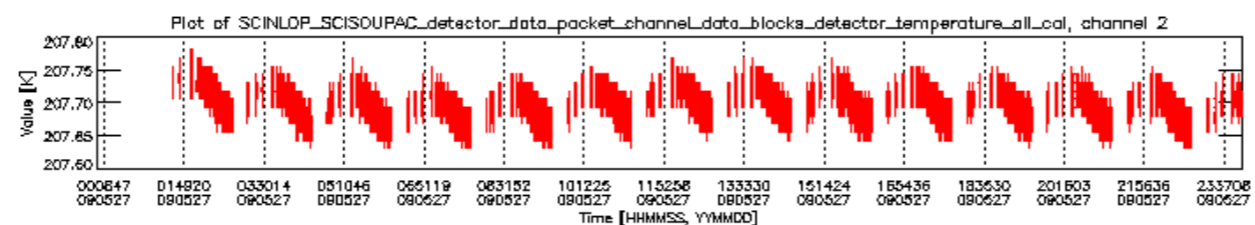
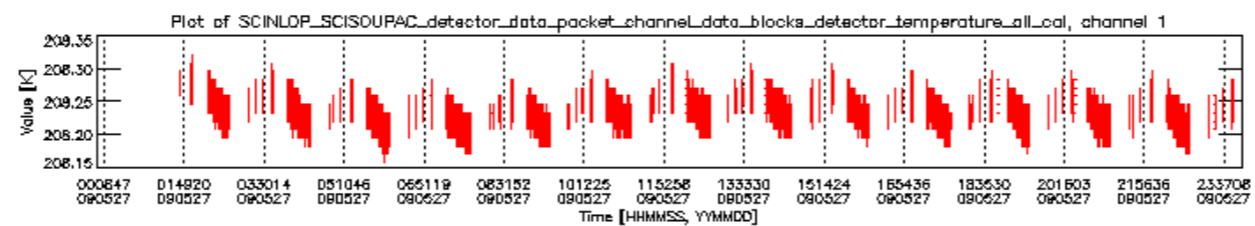




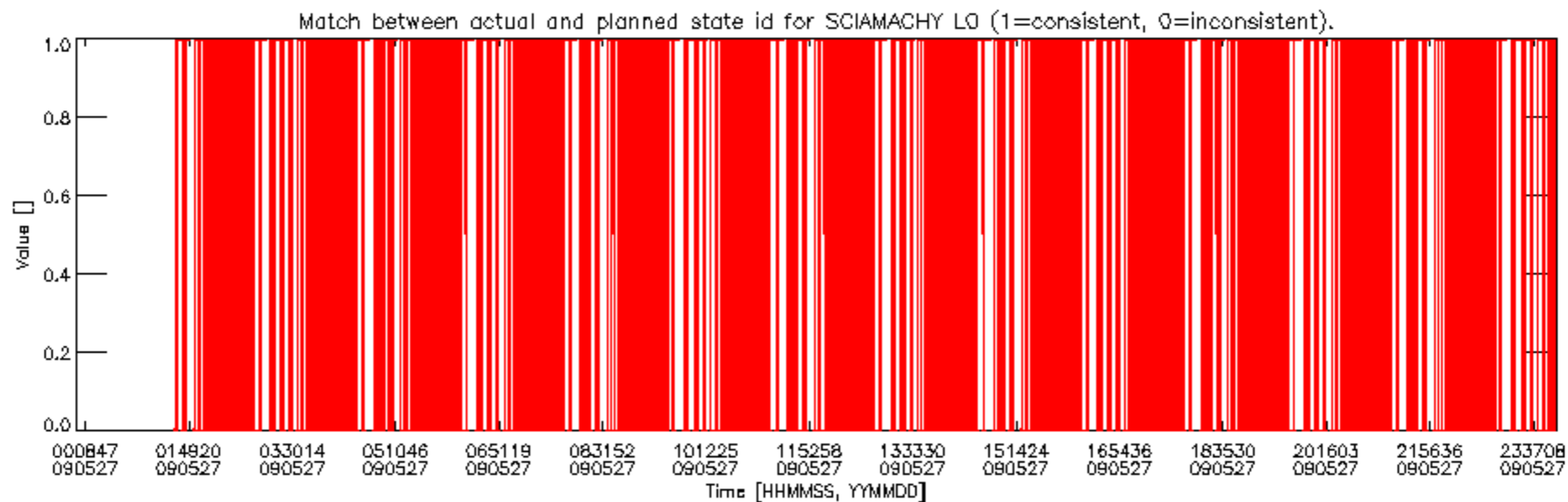
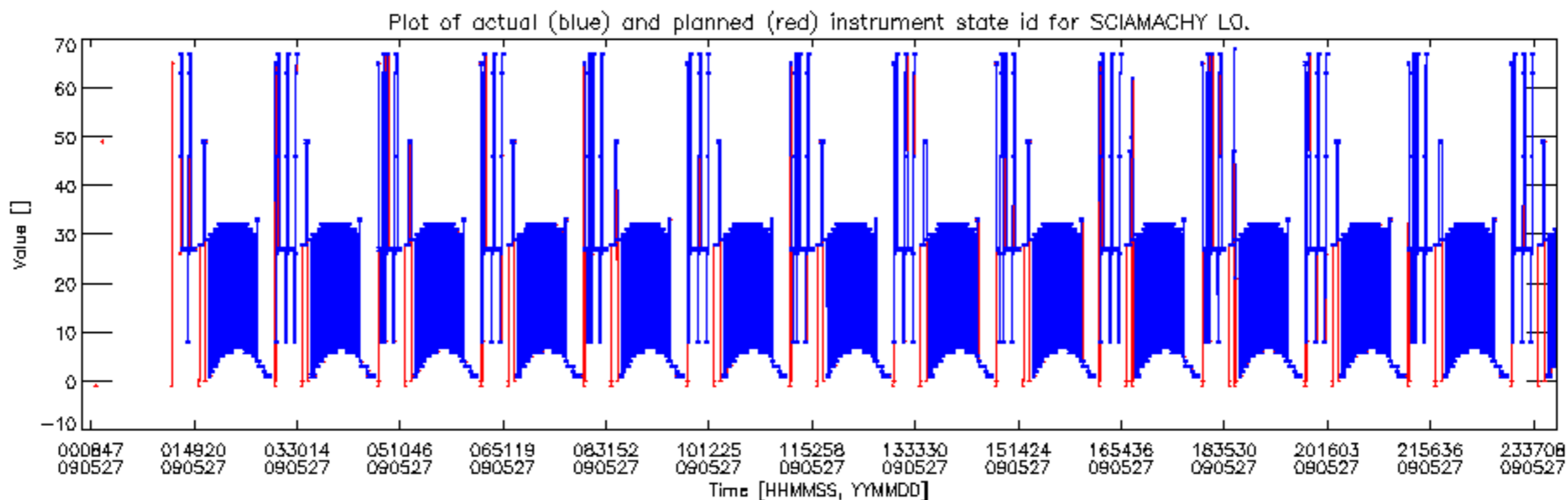




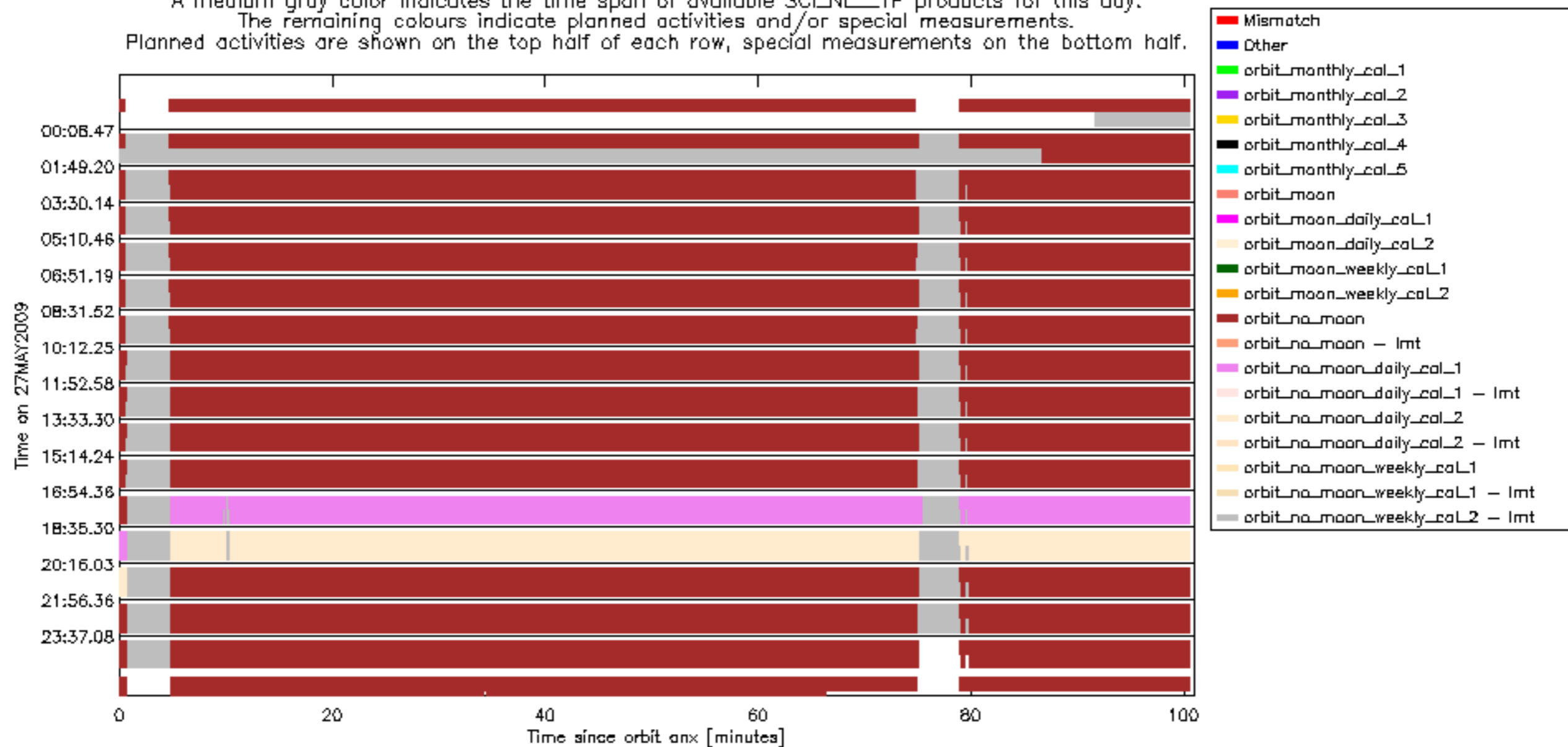


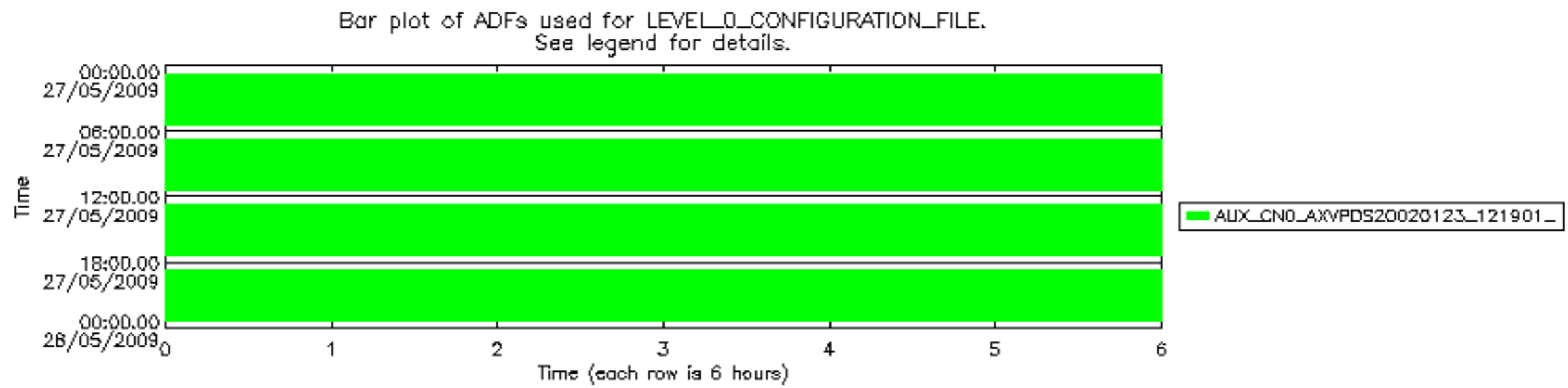






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 27MAY2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

