

## 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	07JUN2009 06:10:43
Data source version	KSPT_L0/4303-N
Processing scope for products	03JUN2009 00:00:00 to 04JUN2009 00:00:00
Start time of first product within scope	02JUN2009 23:36:55
Stop time of last product within scope	03JUN2009 21:54:00
Total number of level 0 products	15
Number of level 0 products with errors	1

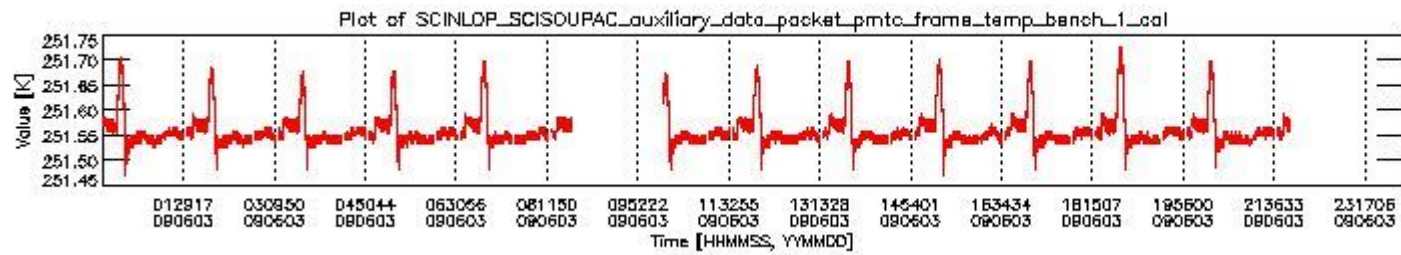
### 0.1.2 Summary per product

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

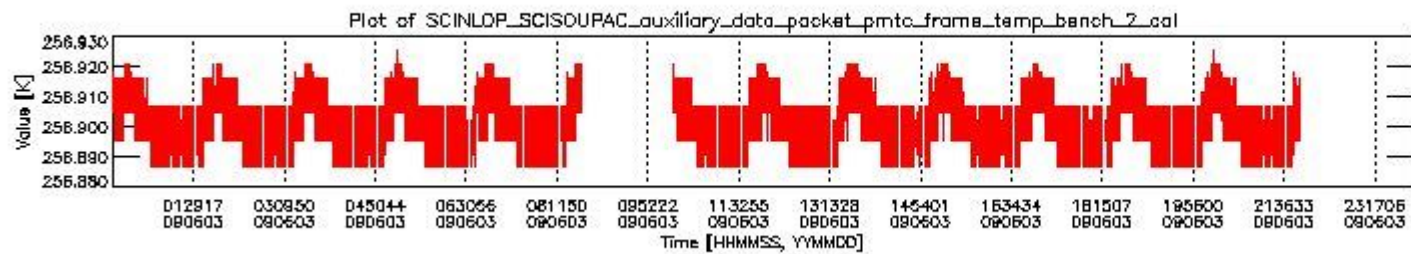
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090602_233655_000059402079_00316_37945_9272.N1	02JUN2009 23:36:55	03JUN2009 01:15:55	0	0	0	0	0
1	SCI_NL__OPNPDE20090603_011521_000047042079_00317_37946_9273.N1	03JUN2009 01:15:21	03JUN2009 02:33:46	0	0	0	0	0
2	SCI_NL__OPNPDE20090603_023346_000057652079_00318_37947_9274.N1	03JUN2009 02:33:46	03JUN2009 04:09:51	0	0	0	0	0
3	SCI_NL__OPNPDE20090603_040951_000061042079_00319_37948_9275.N1	03JUN2009 04:09:51	03JUN2009 05:51:35	0	0	0	0	0
4	SCI_NL__OPNPDE20090603_055027_000061042079_00320_37949_9276.N1	03JUN2009 05:50:27	03JUN2009 07:32:11	0	0	0	0	0
5	SCI_NL__OPNPDK20090603_073521_000037862079_00321_37950_1707.N1	03JUN2009 07:35:21	03JUN2009 08:38:28	0	0	0	0	0
6	SCI_NL__OPNPDK20090603_083828_000061602079_00322_37951_1708.N1	03JUN2009 08:38:28	03JUN2009 10:21:08	1	1	0	0	0
7	SCI_NL__OPNPDK20090603_102012_000060362079_00323_37952_1709.N1	03JUN2009 10:20:12	03JUN2009 12:00:48	0	0	0	0	0
8	SCI_NL__OPNPDK20090603_115939_000060362079_00324_37953_1710.N1	03JUN2009 11:59:39	03JUN2009 13:40:15	0	0	0	0	0
9	SCI_NL__OPNPDK20090603_133919_000059112079_00325_37954_1711.N1	03JUN2009 13:39:19	03JUN2009 15:17:50	0	0	0	0	0
10	SCI_NL__OPNPDK20090603_151642_000059112079_00326_37955_1712.N1	03JUN2009 15:16:42	03JUN2009 16:55:13	0	0	0	0	0
11	SCI_NL__OPNPDK20090603_165417_000059822079_00327_37956_1713.N1	03JUN2009 16:54:17	03JUN2009 18:33:59	0	0	0	0	0
12	SCI_NL__OPNPDK20090603_183304_000059672079_00328_37957_1714.N1	03JUN2009 18:33:04	03JUN2009 20:12:31	0	0	0	0	0
13	SCI_NL__OPNPDE20090603_201135_000042892079_00329_37958_9277.N1	03JUN2009 20:11:35	03JUN2009 21:23:04	0	0	0	0	0
14	SCI_NL__OPNPDE20090603_212217_000019032079_00329_37958_9278.N1	03JUN2009 21:22:17	03JUN2009 21:54:00	0	0	0	0	0

## 0.2 Product Quality Indicators

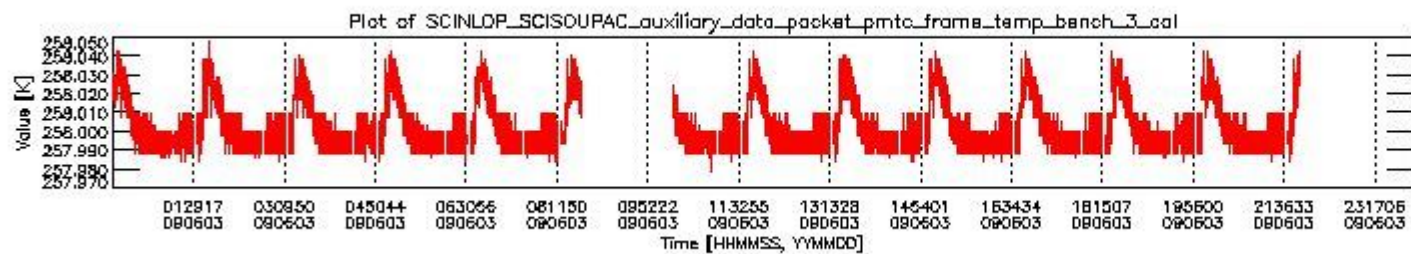
This section shows information about product quality, currently temperatures.



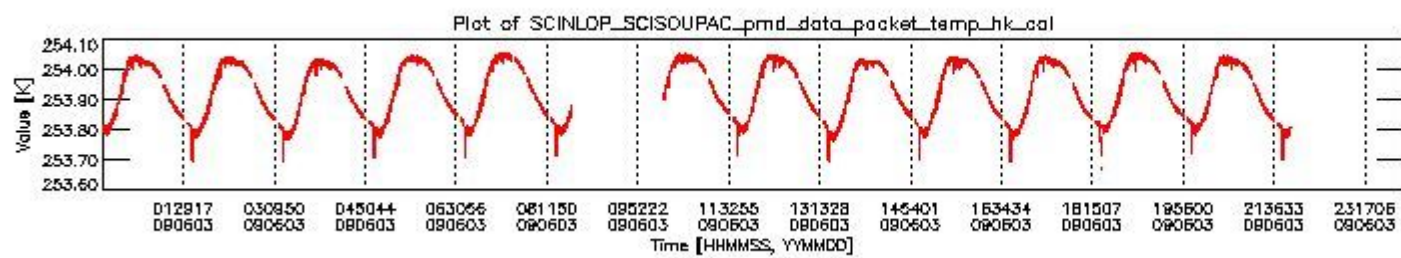
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090603\_0.PNG



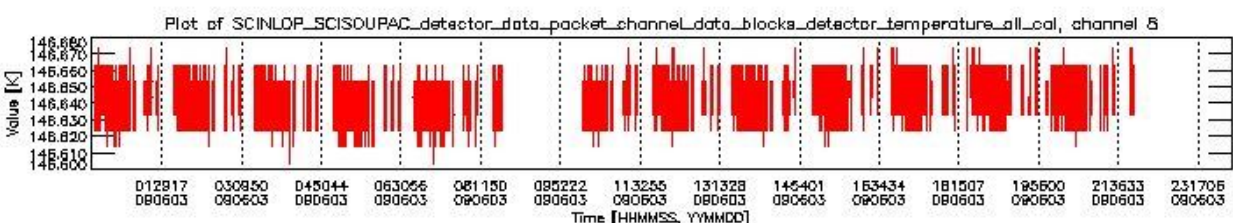
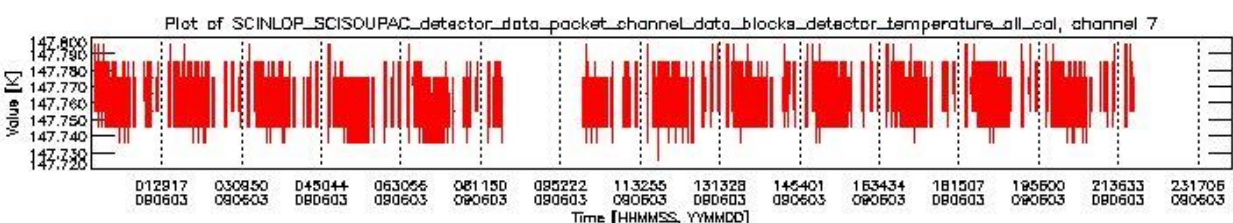
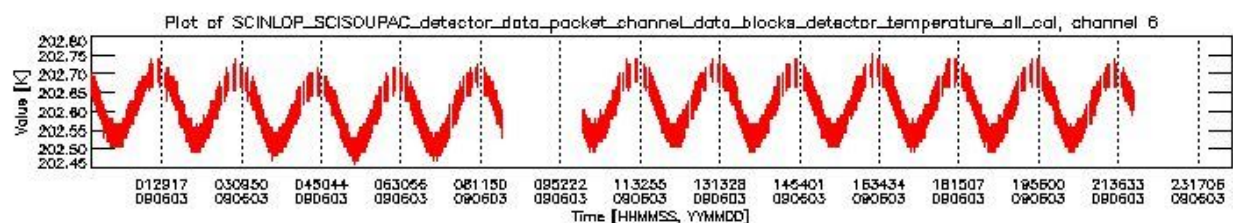
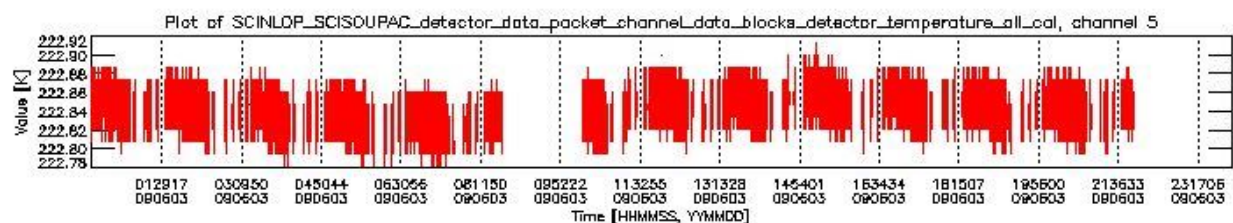
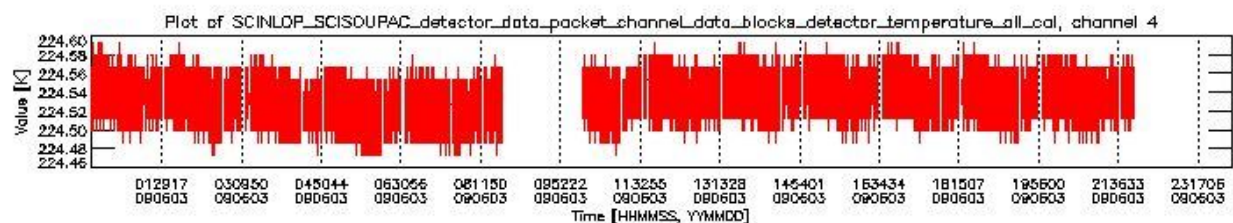
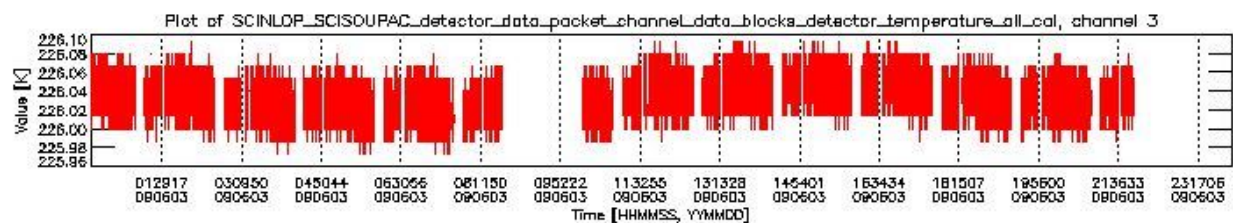
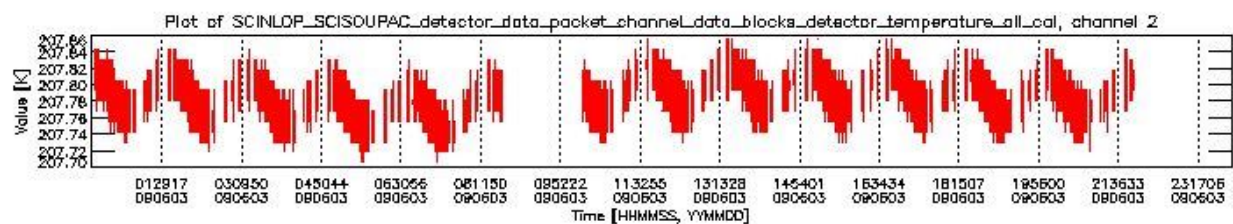
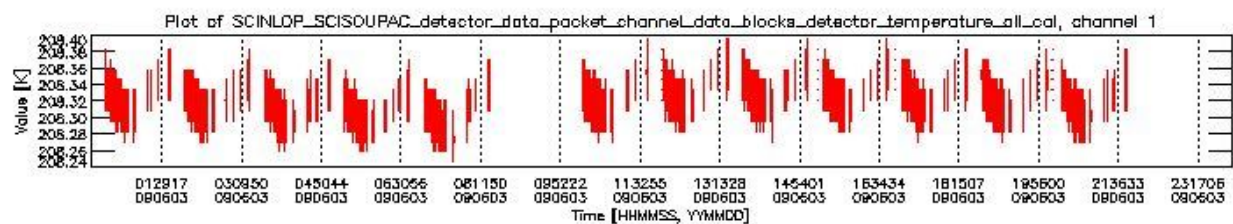
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090603\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090603\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090603\_3.PNG

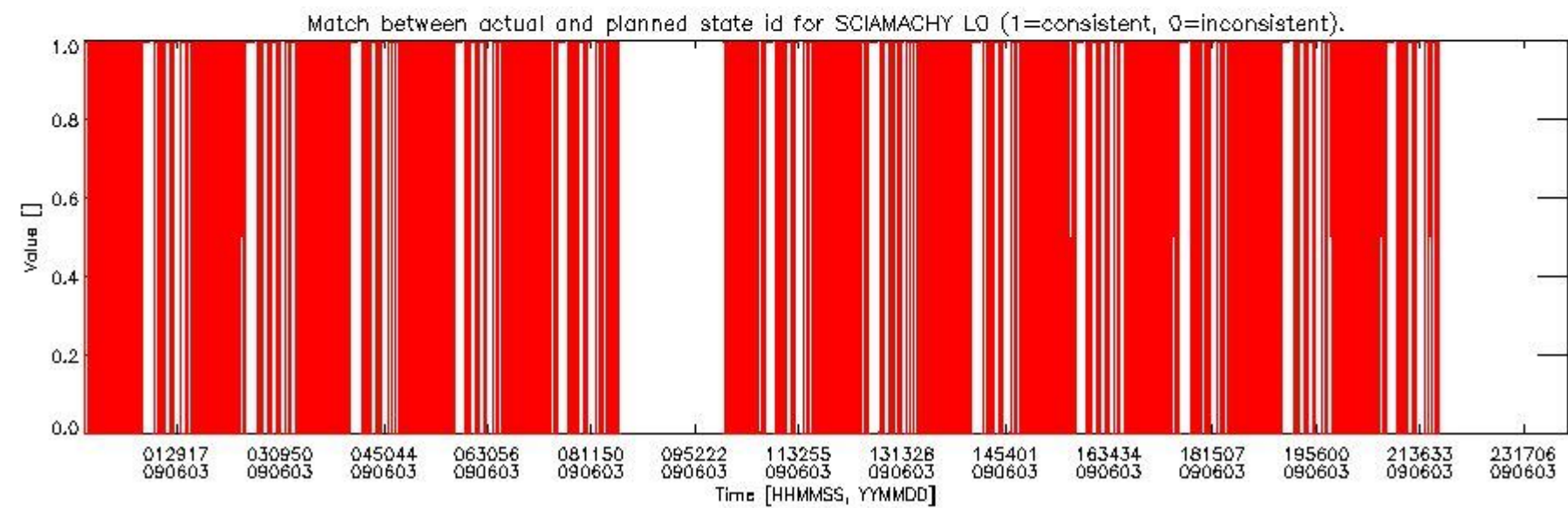
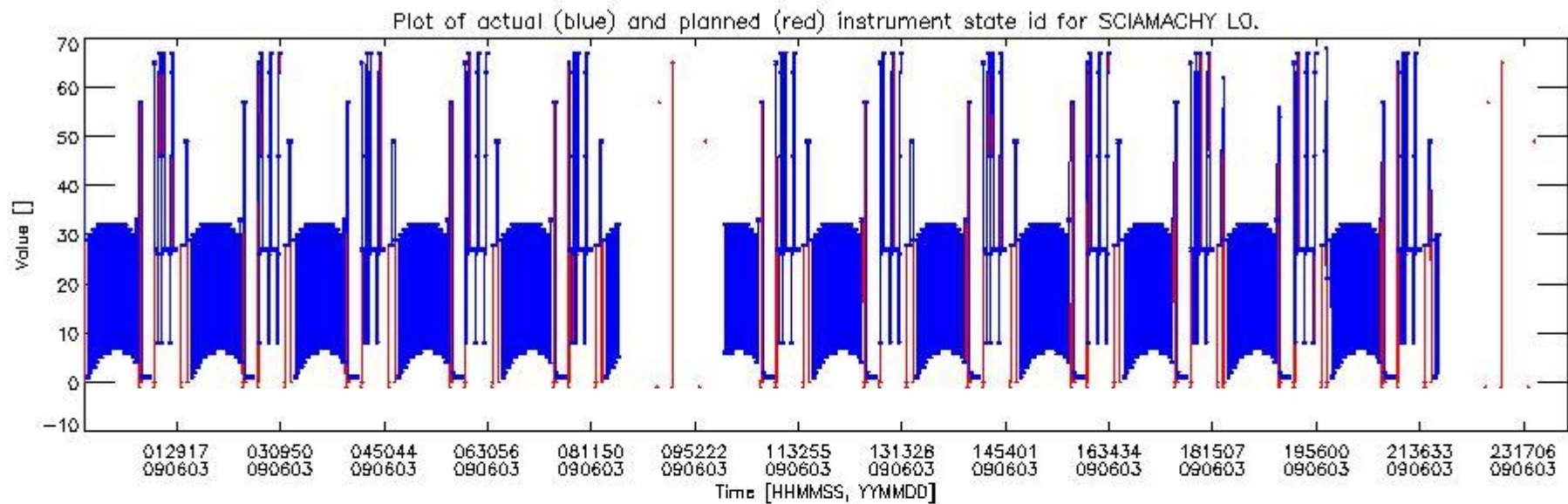


### 0.3 State monitoring

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: **28983**

#	Actual time	Actual value	Planned time	Planned value
0	03JUN2009 00:03:02.527234	1	03JUN2009 00:03:02.527234	29
1	03JUN2009 00:03:02.777242	1	03JUN2009 00:03:02.777242	29
2	03JUN2009 00:03:02.902247	1	03JUN2009 00:03:02.902247	29
3	03JUN2009 00:03:03.027251	1	03JUN2009 00:03:03.027251	29
4	03JUN2009 00:03:03.152255	1	03JUN2009 00:03:03.152255	29
5	03JUN2009 00:03:03.277260	1	03JUN2009 00:03:03.277260	29
6	03JUN2009 00:03:03.402264	1	03JUN2009 00:03:03.402264	29
7	03JUN2009 00:03:03.527228	1	03JUN2009 00:03:03.527228	29
8	03JUN2009 00:03:03.652233	1	03JUN2009 00:03:03.652233	29
9	03JUN2009 00:03:03.777237	1	03JUN2009 00:03:03.777237	29
10	03JUN2009 00:03:03.902241	1	03JUN2009 00:03:03.902241	29
11	03JUN2009 00:03:04.027246	1	03JUN2009 00:03:04.027246	29
12	03JUN2009 00:03:04.152250	1	03JUN2009 00:03:04.152250	29
13	03JUN2009 00:03:04.277254	1	03JUN2009 00:03:04.277254	29
14	03JUN2009 00:03:04.402259	1	03JUN2009 00:03:04.402259	29
15	03JUN2009 00:03:04.527263	1	03JUN2009 00:03:04.527263	29
16	03JUN2009 00:03:04.652227	1	03JUN2009 00:03:04.652227	29
17	03JUN2009 00:03:04.777232	1	03JUN2009 00:03:04.777232	29
18	03JUN2009 00:03:04.902236	1	03JUN2009 00:03:04.902236	29
19	03JUN2009 00:03:05.027240	1	03JUN2009 00:03:05.027240	29
	...	...	...	...

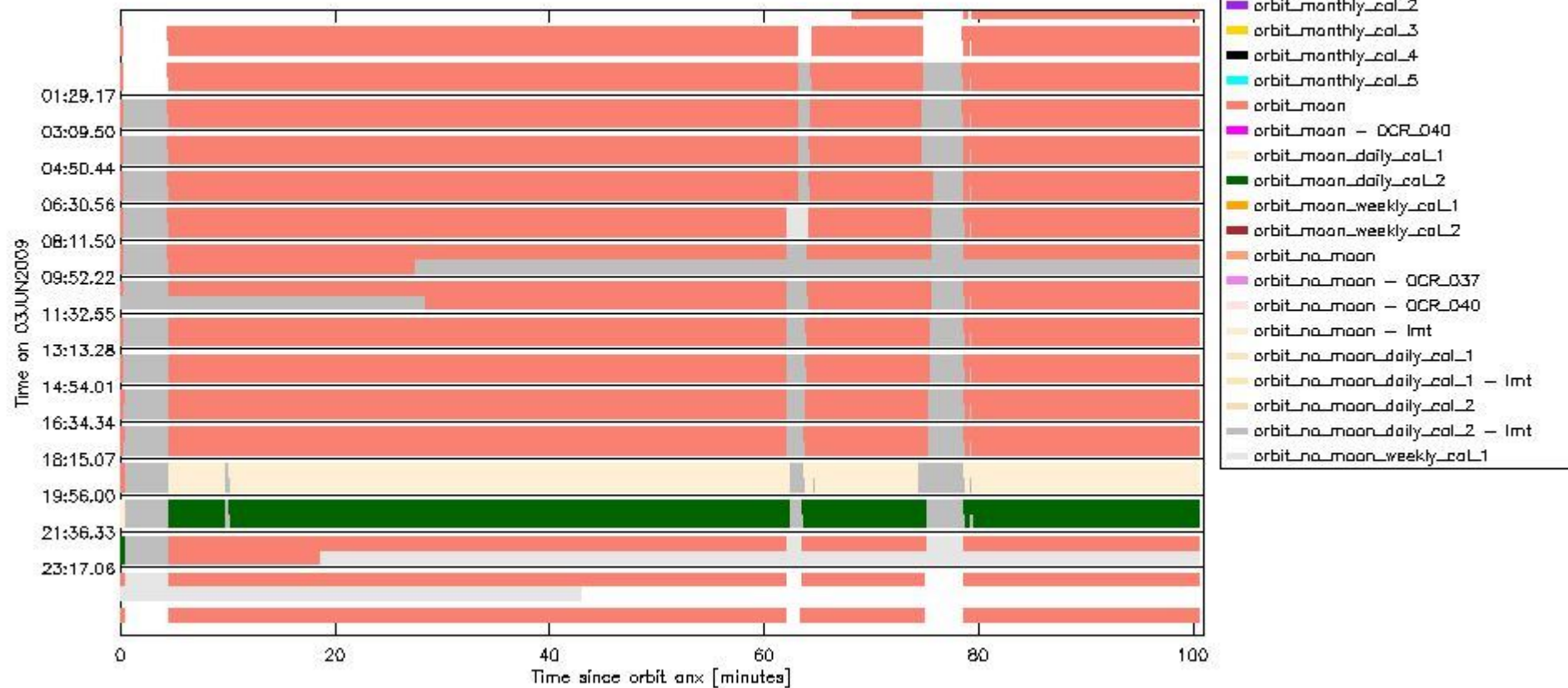


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090603\_5.PNG

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 Q3JUN2009.  
 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\_20090603\_6.PNG

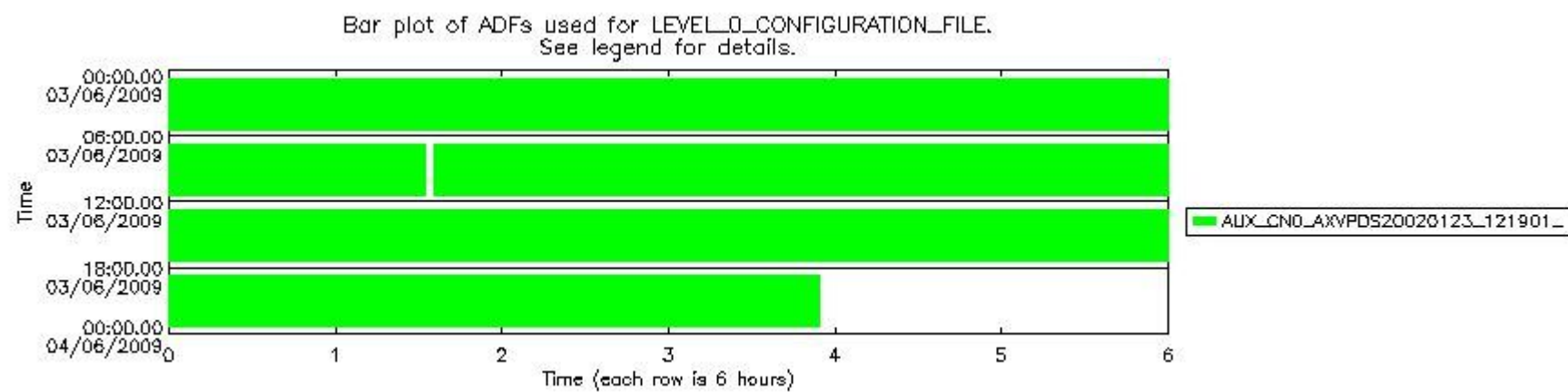
## 0.4 ADF monitoring

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

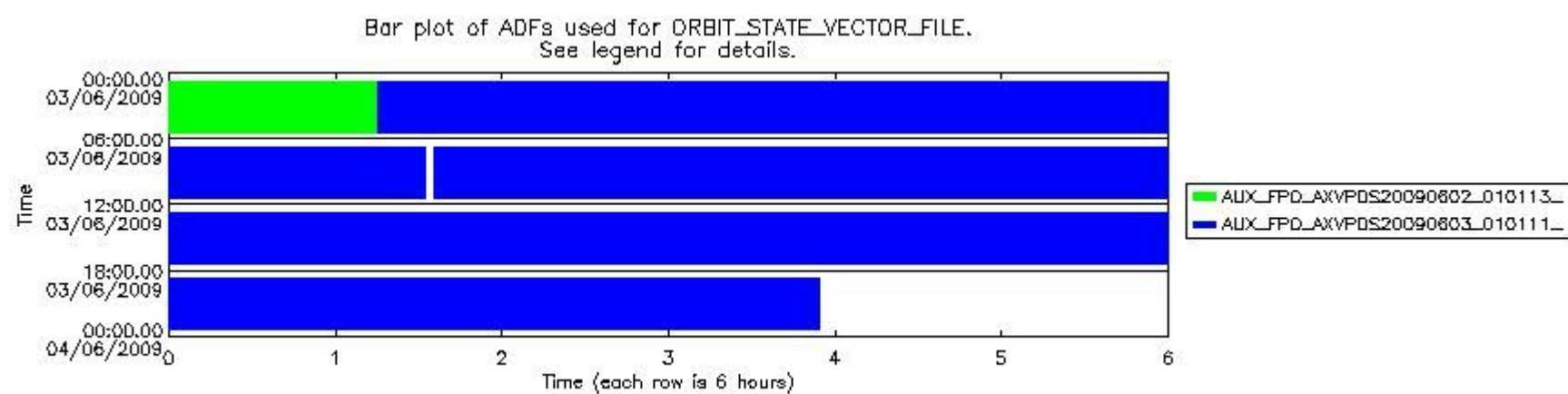
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

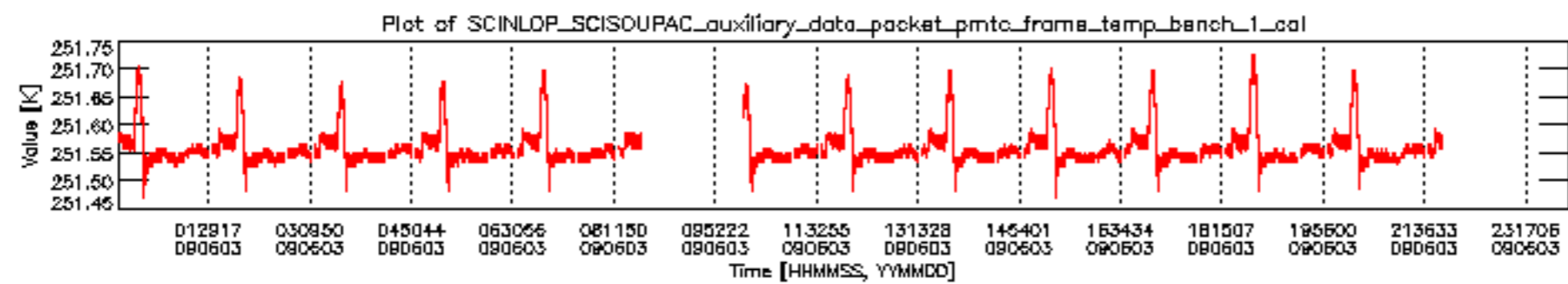
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090602_010113_20090601_191832_20090611_204446
2	AUX_FPO_AXVPDS20090603_010111_20090602_184655_20090612_201309



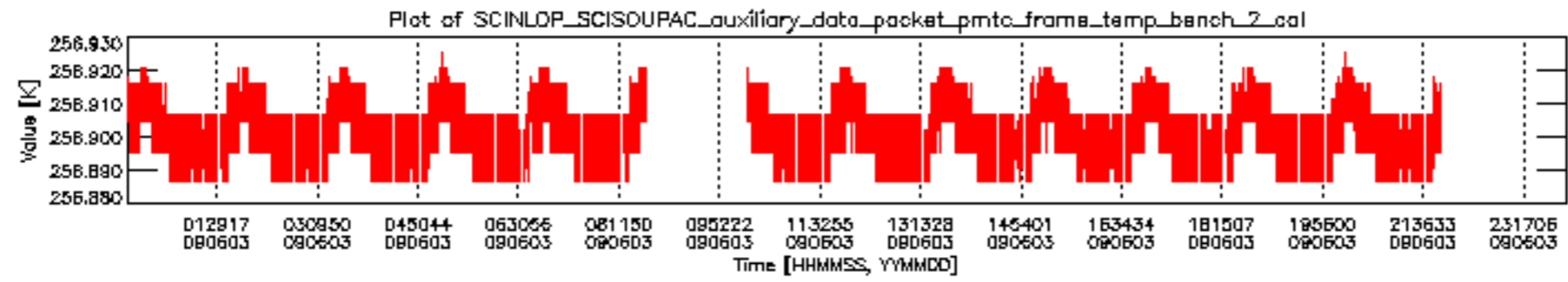
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090603\_7.PNG

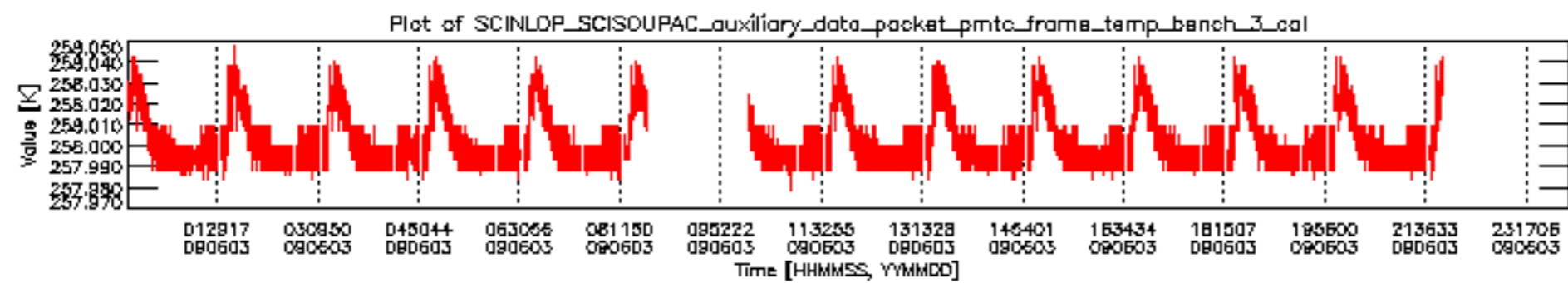


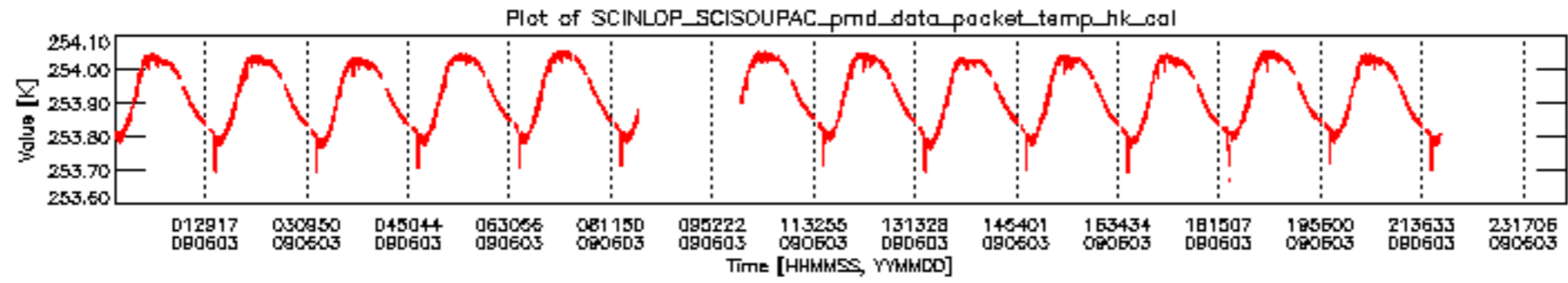
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090603\_8.PNG

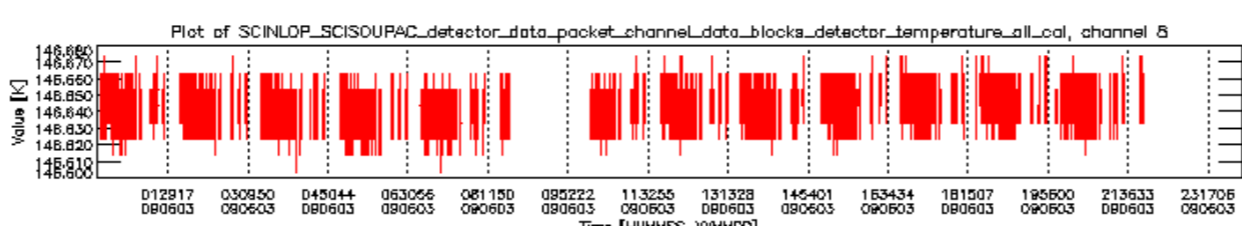
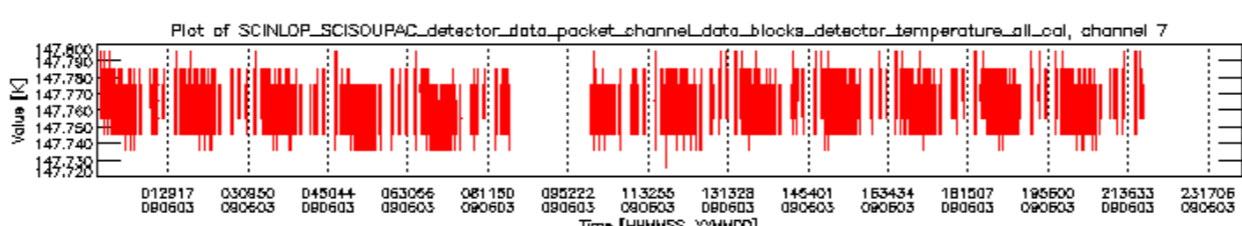
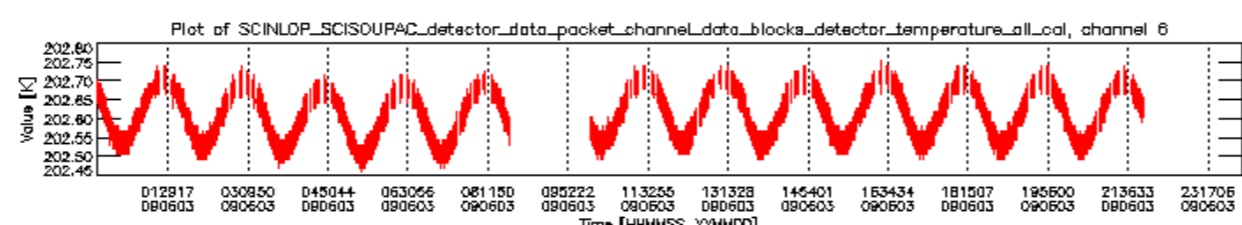
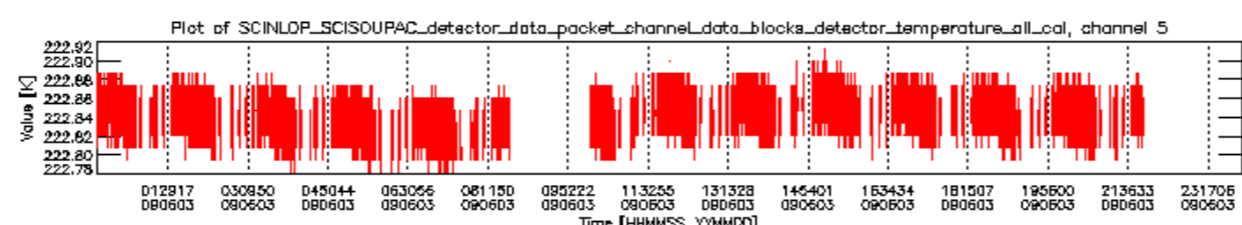
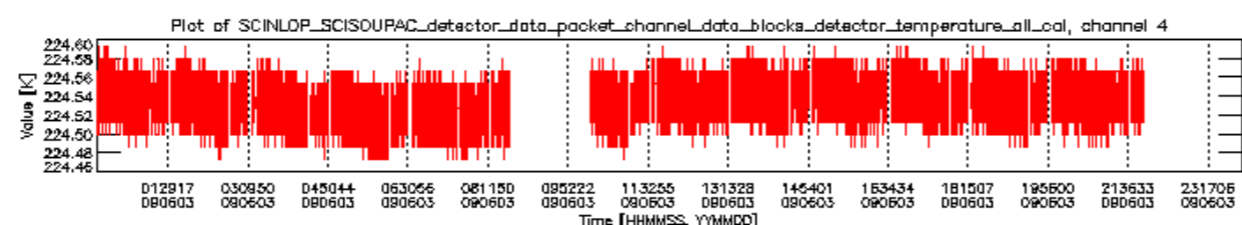
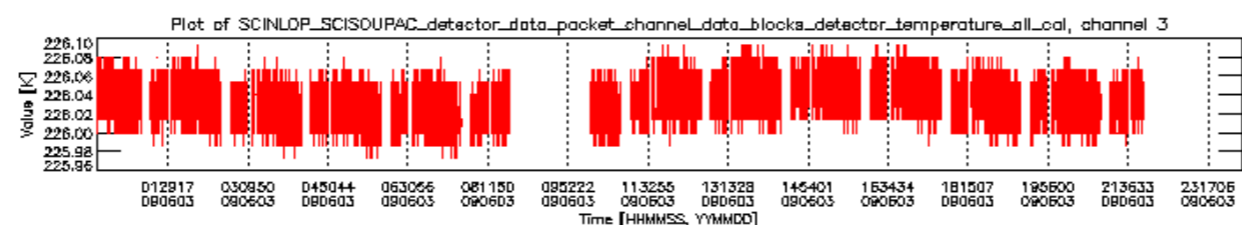
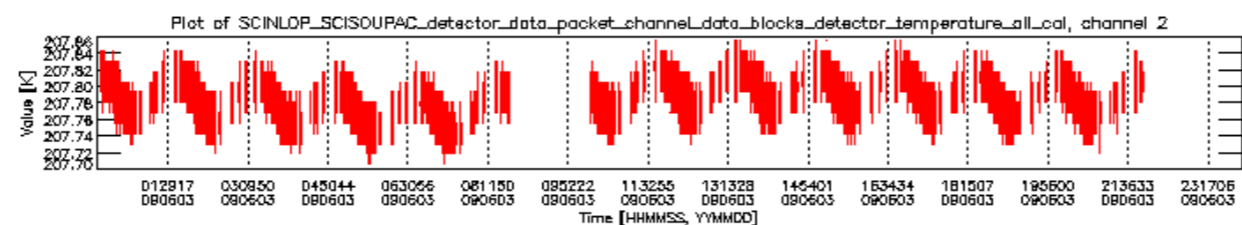
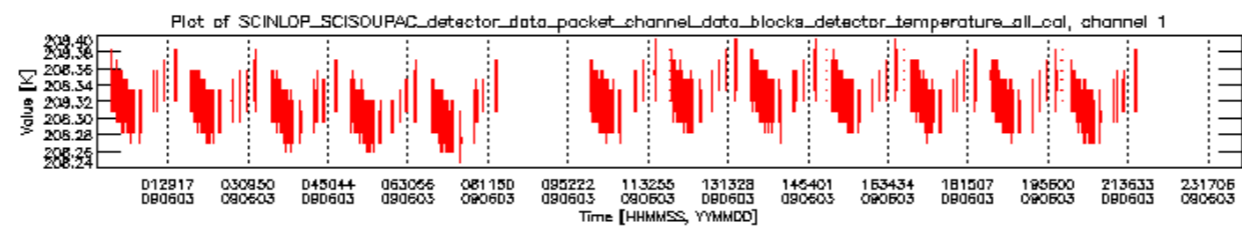


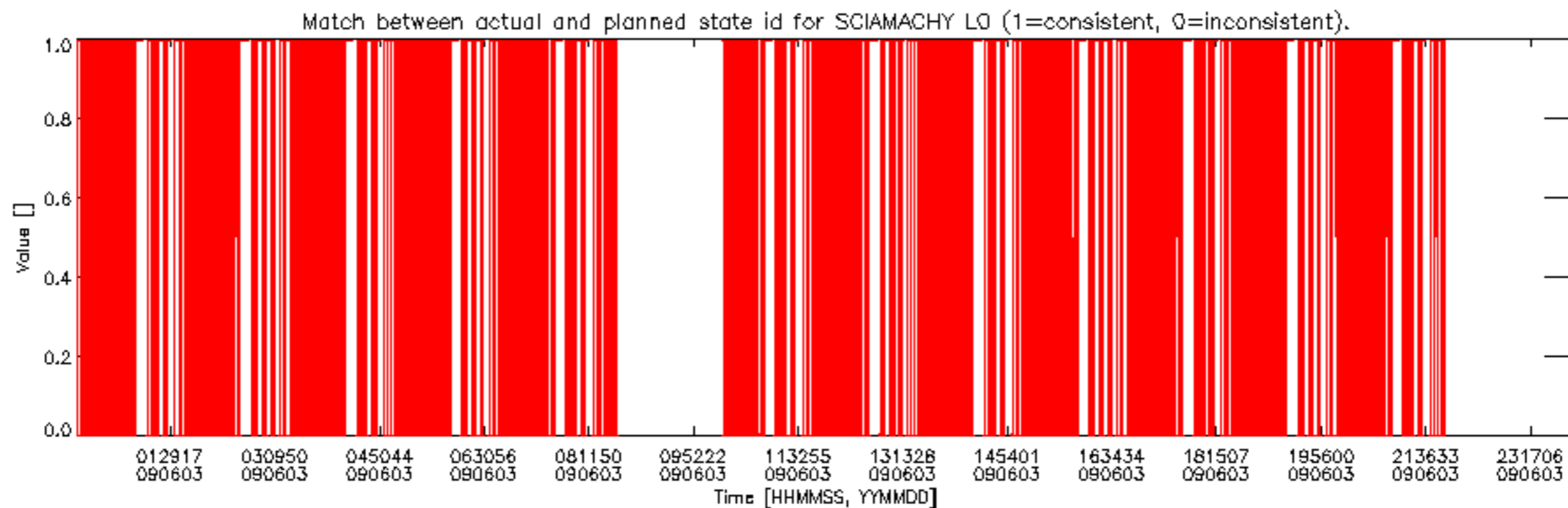
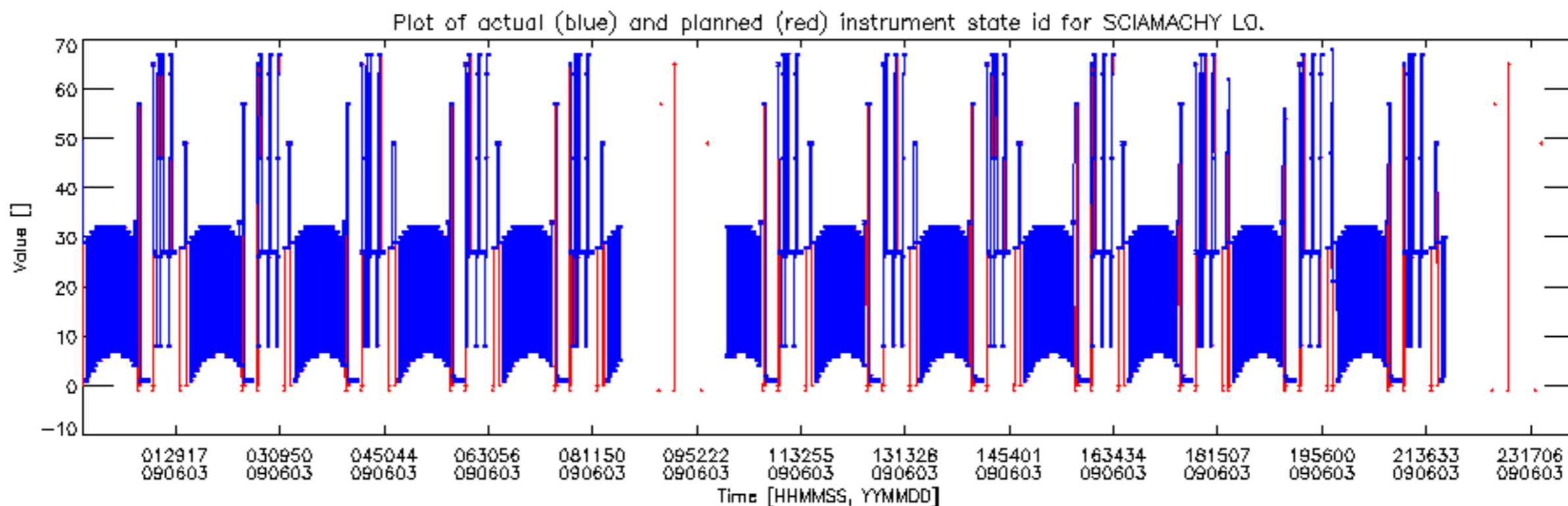












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 03JUN2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

