

# 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	24JUN2009 05:05:56
Data source version	KSPT_L0/4303-N
Processing scope for products	20JUN2009 00:00:00 to 21JUN2009 00:00:00
Start time of first product within scope	19JUN2009 23:01:19
Stop time of last product within scope	21JUN2009 00:12:17
Total number of level 0 products	16
Number of level 0 products with errors	0

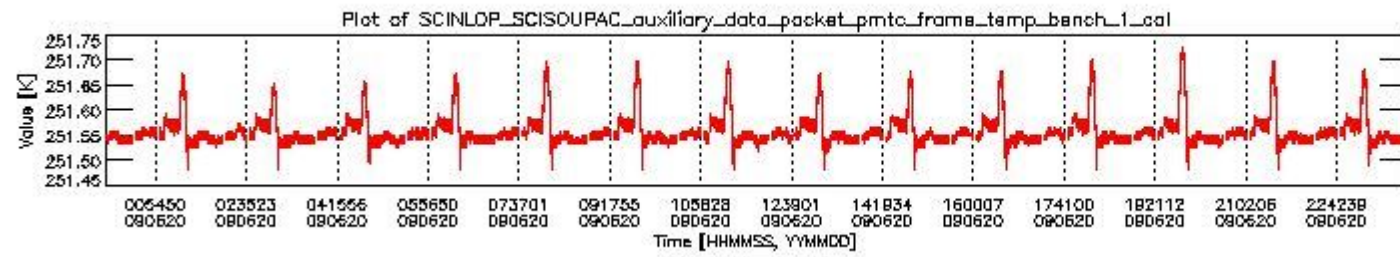
### 0.1.2 Summary per product

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

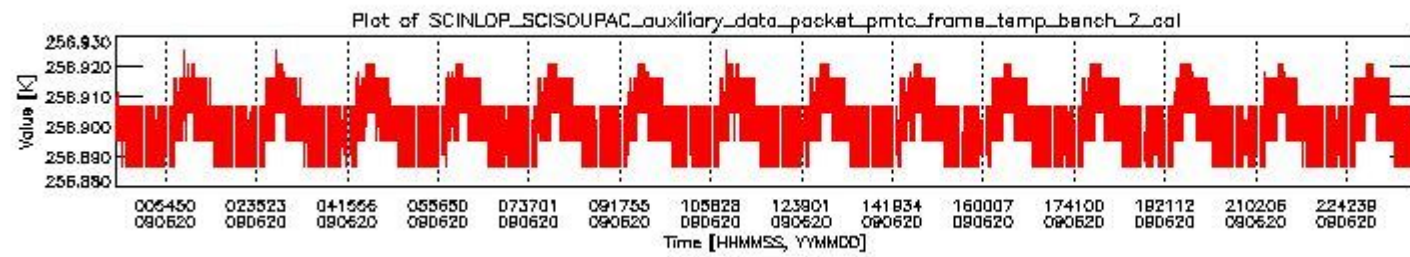
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090619_230119_000061112080_00058_38188_9361.N1	19JUN2009 23:01:19	20JUN2009 00:43:10	0	0	0	0	0
1	SCI_NL__OPNPDE20090620_004226_000058722080_00059_38189_9362.N1	20JUN2009 00:42:26	20JUN2009 02:20:18	0	0	0	0	0
2	SCI_NL__OPNPDE20090620_021850_000046352080_00060_38190_9363.N1	20JUN2009 02:18:50	20JUN2009 03:36:05	0	0	0	0	0
3	SCI_NL__OPNPDE20090620_033509_000061482080_00061_38191_9364.N1	20JUN2009 03:35:09	20JUN2009 05:17:37	0	0	0	0	0
4	SCI_NL__OPNPDE20090620_051641_000060362080_00062_38192_9365.N1	20JUN2009 05:16:41	20JUN2009 06:57:17	0	0	0	0	0
5	SCI_NL__OPNPDK20090620_065717_000041012080_00063_38193_1844.N1	20JUN2009 06:57:17	20JUN2009 08:05:38	0	0	0	0	0
6	SCI_NL__OPNPDK20090620_080442_000061042080_00064_38194_1845.N1	20JUN2009 08:04:42	20JUN2009 09:46:26	0	0	0	0	0
7	SCI_NL__OPNPDK20090620_094518_000060362080_00065_38195_1846.N1	20JUN2009 09:45:18	20JUN2009 11:25:54	0	0	0	0	0
8	SCI_NL__OPNPDK20090620_112445_000060482080_00066_38196_1847.N1	20JUN2009 11:24:45	20JUN2009 13:05:34	0	0	0	0	0
9	SCI_NL__OPNPDK20090620_130534_000058992080_00067_38197_1848.N1	20JUN2009 13:05:34	20JUN2009 14:43:52	0	0	0	0	0
10	SCI_NL__OPNPDK20090620_144352_000058562080_00068_38198_1849.N1	20JUN2009 14:43:52	20JUN2009 16:21:28	0	0	0	0	0
11	SCI_NL__OPNPDK20090620_162032_000057902080_00069_38199_1850.N1	20JUN2009 16:20:32	20JUN2009 17:57:02	0	0	0	0	0
12	SCI_NL__OPNPDK20090620_175606_000061602080_00070_38200_1852.N1	20JUN2009 17:56:06	20JUN2009 19:38:46	0	0	0	0	0
13	SCI_NL__OPNPDE20090620_193750_000041432080_00071_38201_9366.N1	20JUN2009 19:37:50	20JUN2009 20:46:53	0	0	0	0	0
14	SCI_NL__OPNPDE20090620_204446_000063402080_00071_38201_9367.N1	20JUN2009 20:44:46	20JUN2009 22:30:26	0	0	0	0	0
15	SCI_NL__OPNPDE20090620_222942_000061562080_00072_38202_9368.N1	20JUN2009 22:29:42	21JUN2009 00:12:17	0	0	0	0	0

## 0.2 Product Quality Indicators

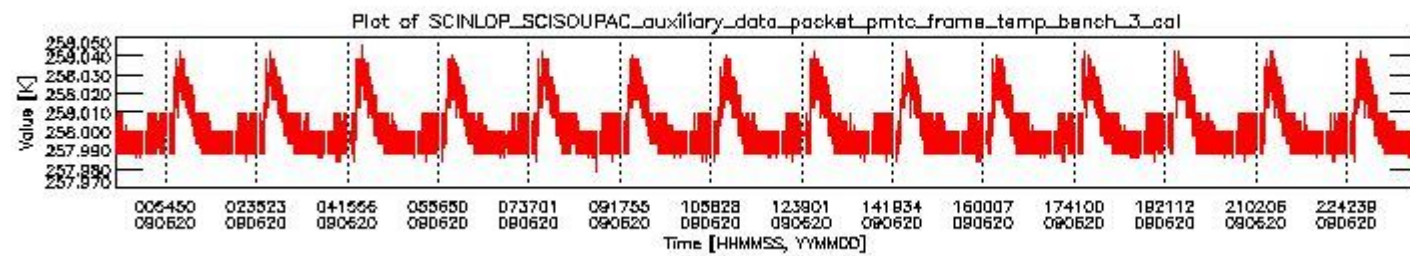
This section shows information about product quality, currently temperatures.



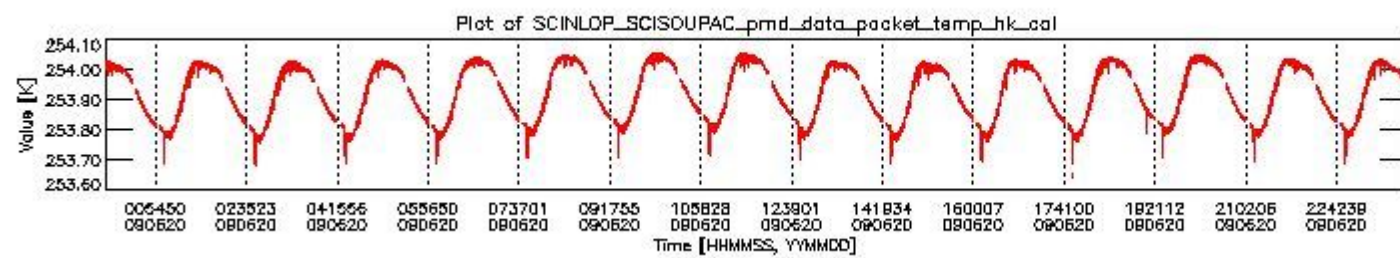
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090620\_0.PNG



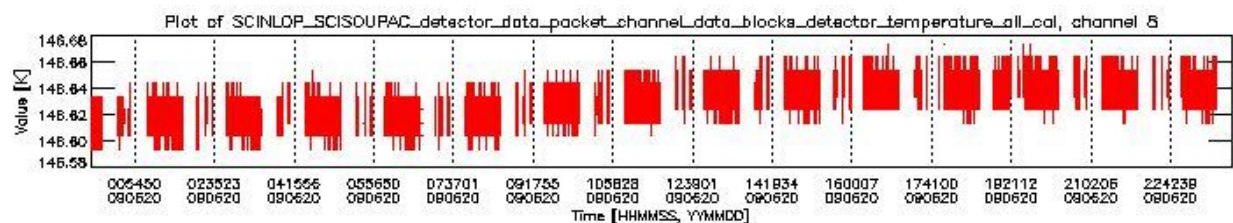
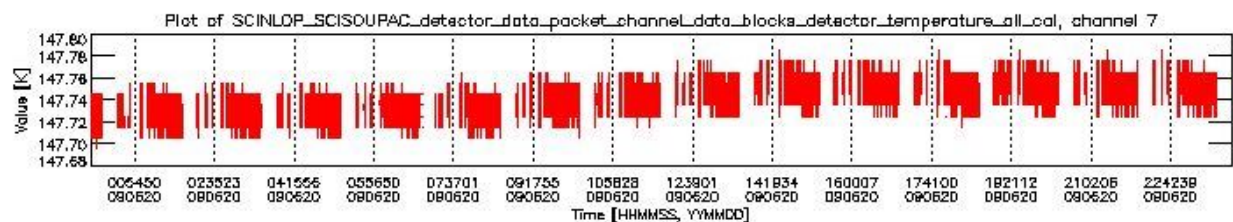
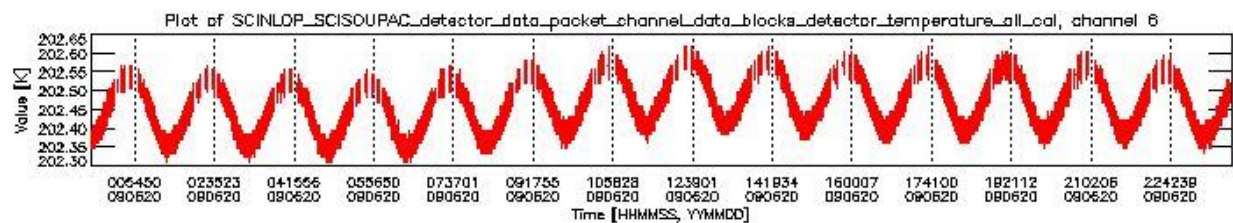
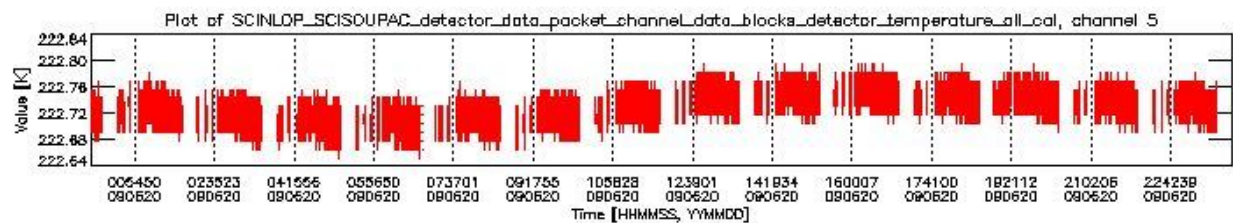
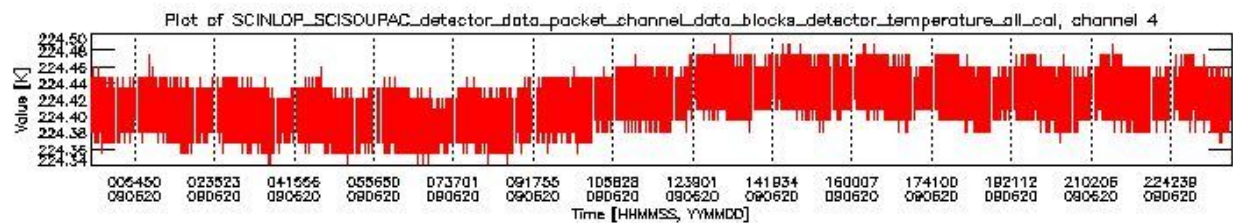
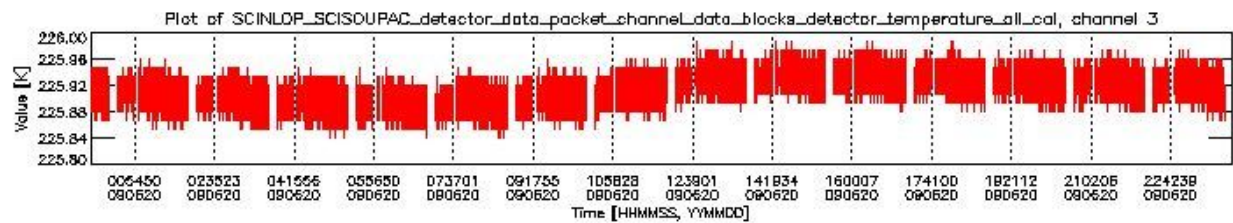
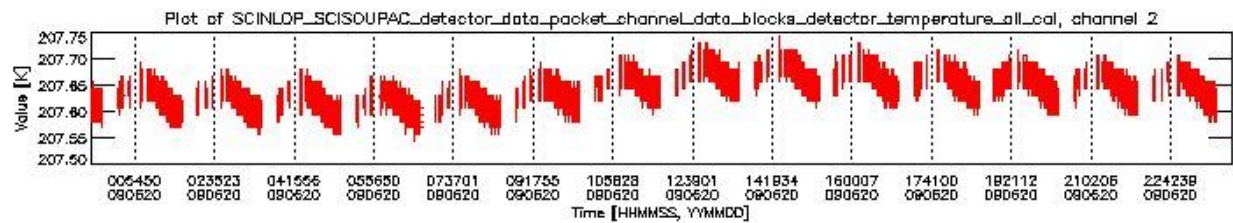
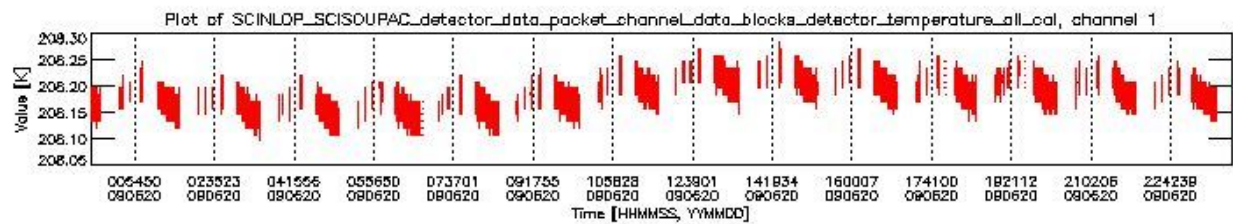
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090620\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090620\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090620\_3.PNG

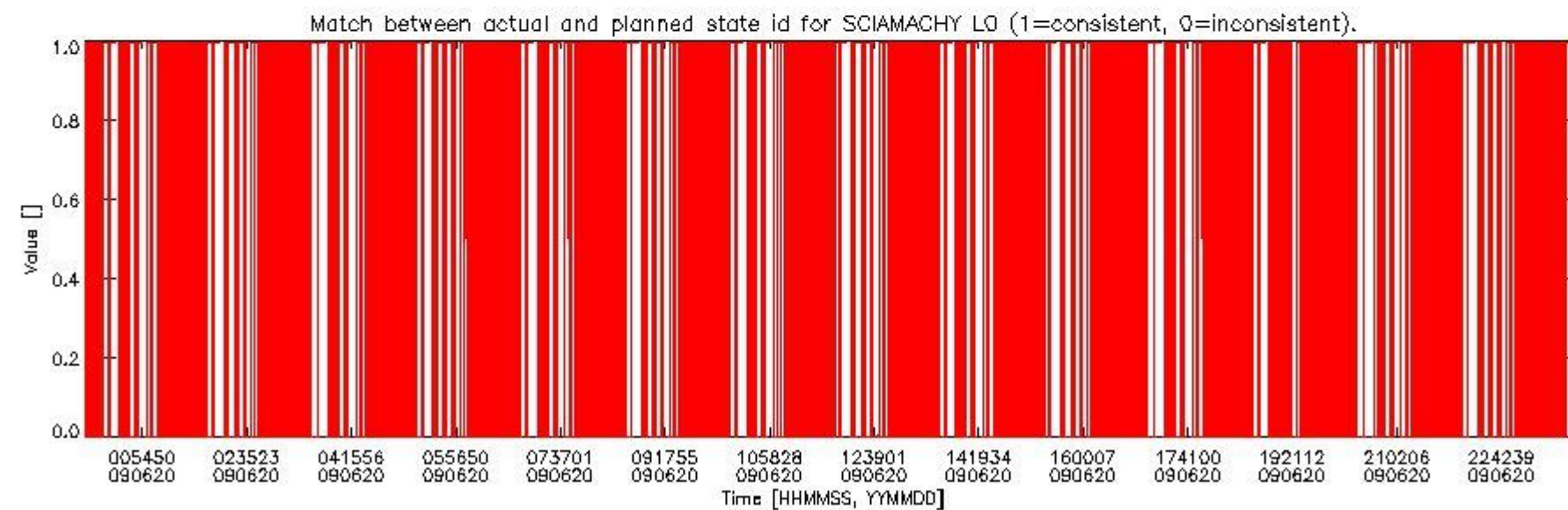
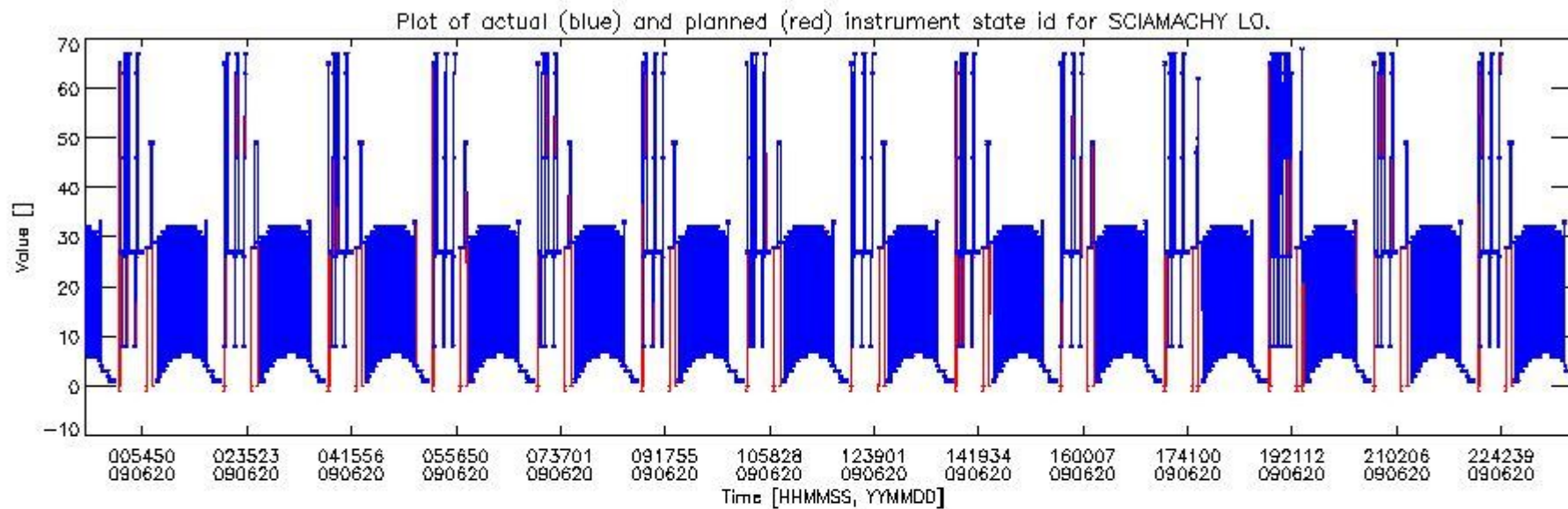


### 0.3 State monitoring

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: **37851**

#	Actual time	Actual value	Planned time	Planned value
0	20JUN2009 00:00:22.924519	7	20JUN2009 00:00:22.924519	32
1	20JUN2009 00:00:23.299532	7	20JUN2009 00:00:23.299532	32
2	20JUN2009 00:00:23.549540	7	20JUN2009 00:00:23.549540	32
3	20JUN2009 00:00:23.799549	7	20JUN2009 00:00:23.799549	32
4	20JUN2009 00:00:24.049518	7	20JUN2009 00:00:24.049518	32
5	20JUN2009 00:00:24.299526	7	20JUN2009 00:00:24.299526	32
6	20JUN2009 00:00:24.549535	7	20JUN2009 00:00:24.549535	32
7	20JUN2009 00:00:24.799544	7	20JUN2009 00:00:24.799544	32
8	20JUN2009 00:00:25.049552	7	20JUN2009 00:00:25.049552	32
9	20JUN2009 00:00:25.299521	7	20JUN2009 00:00:25.299521	32
10	20JUN2009 00:00:25.549529	7	20JUN2009 00:00:25.549529	32
11	20JUN2009 00:00:25.799538	7	20JUN2009 00:00:25.799538	32
12	20JUN2009 00:00:26.049547	7	20JUN2009 00:00:26.049547	32
13	20JUN2009 00:00:26.299556	7	20JUN2009 00:00:26.299556	32
14	20JUN2009 00:00:26.549524	7	20JUN2009 00:00:26.549524	32
15	20JUN2009 00:00:26.799533	7	20JUN2009 00:00:26.799533	32
16	20JUN2009 00:00:27.049541	7	20JUN2009 00:00:27.049541	32
17	20JUN2009 00:00:27.299550	7	20JUN2009 00:00:27.299550	32
18	20JUN2009 00:00:27.549519	7	20JUN2009 00:00:27.549519	32
19	20JUN2009 00:00:27.799527	7	20JUN2009 00:00:27.799527	32
	...	...	...	...

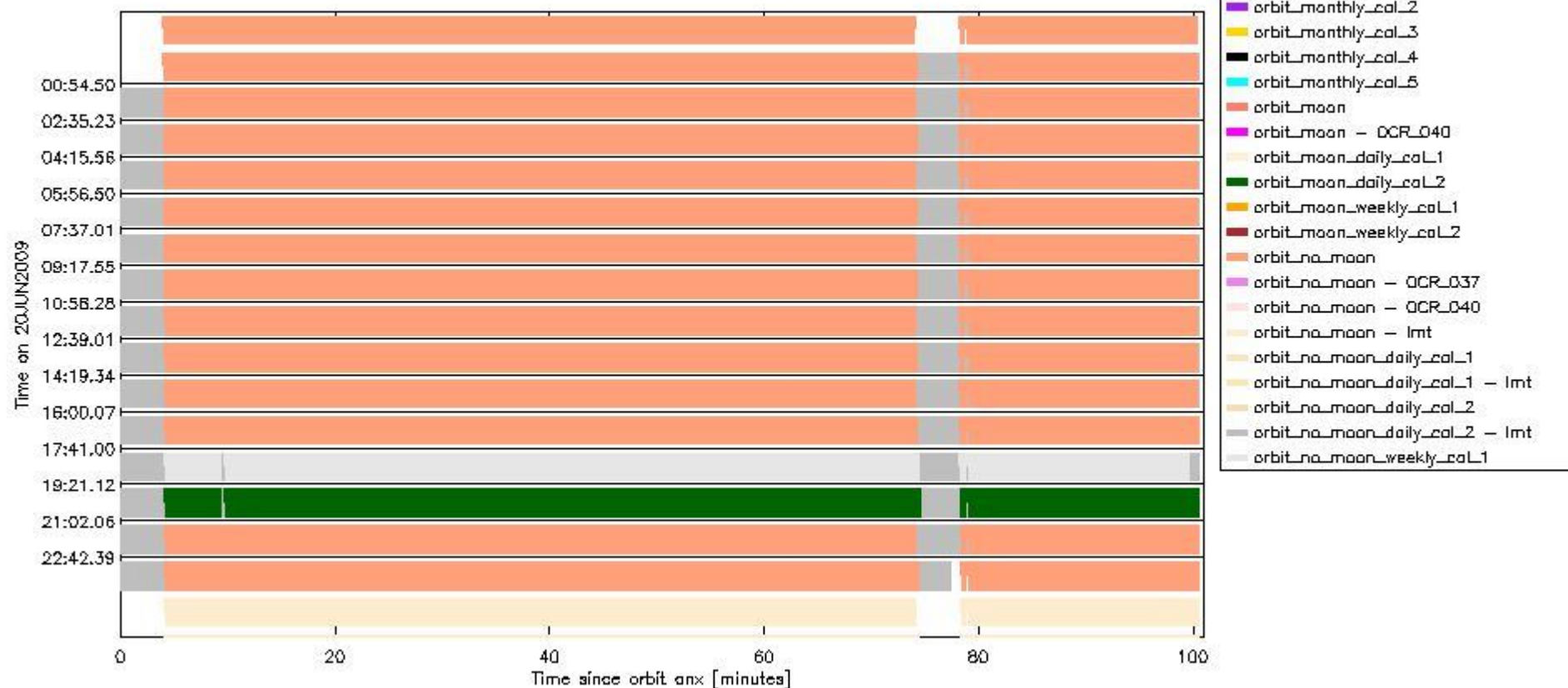


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090620\_5.PNG

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 20JUN2009.  
 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\_20090620\_6.PNG

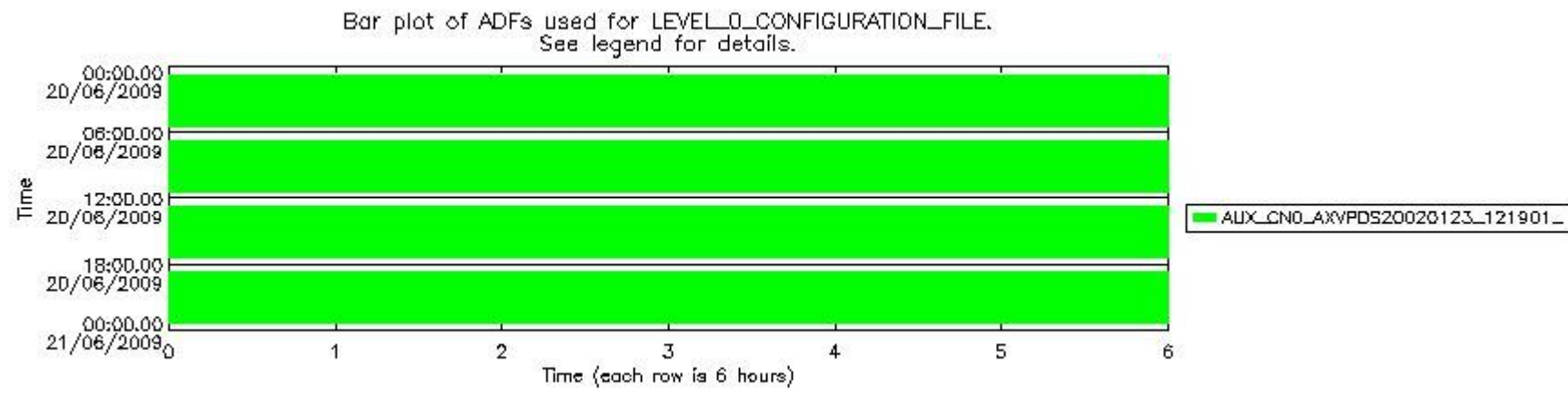
## 0.4 ADF monitoring

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

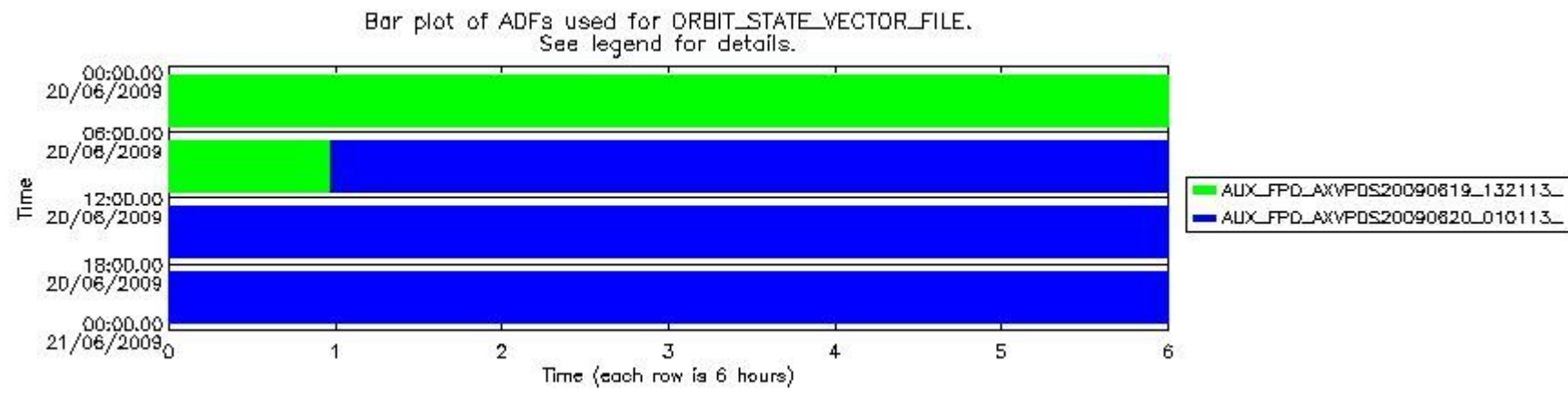
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

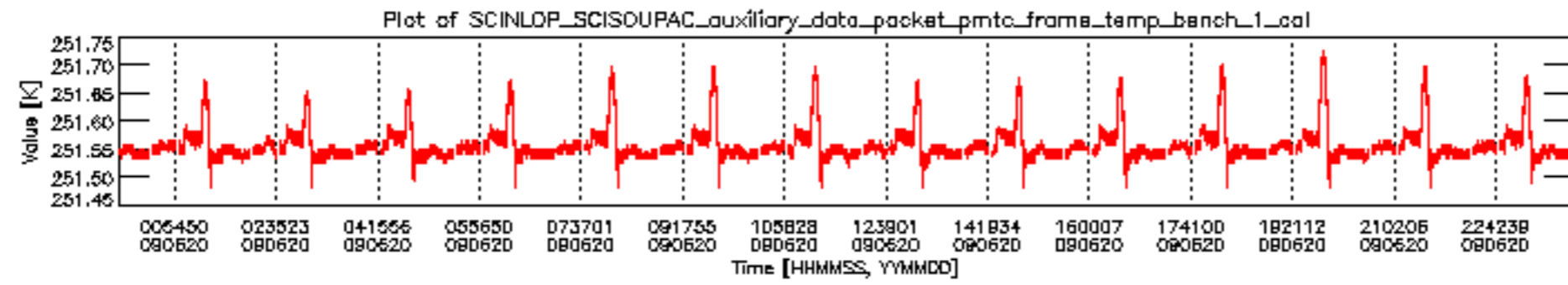
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090619_132113_20090618_184403_20090628_201016
2	AUX_FPO_AXVPDS20090620_010113_20090619_195302_20090629_211915



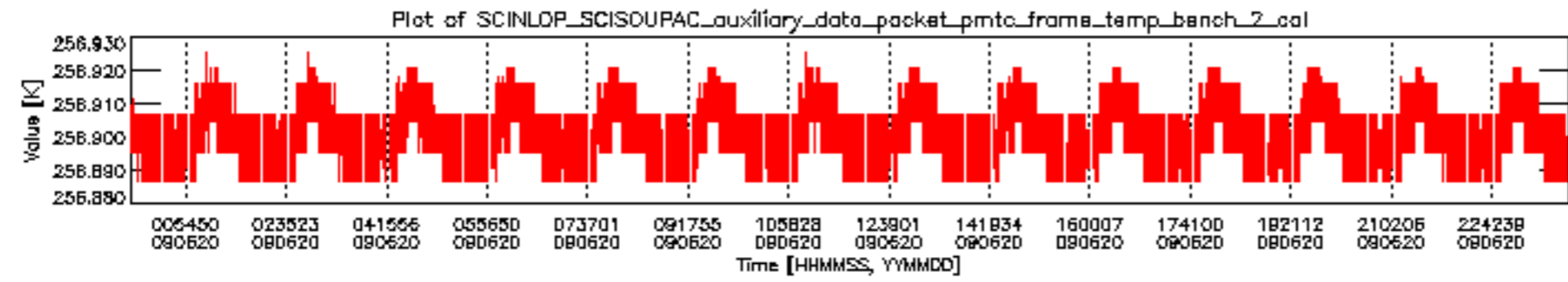
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090620\_7.PNG

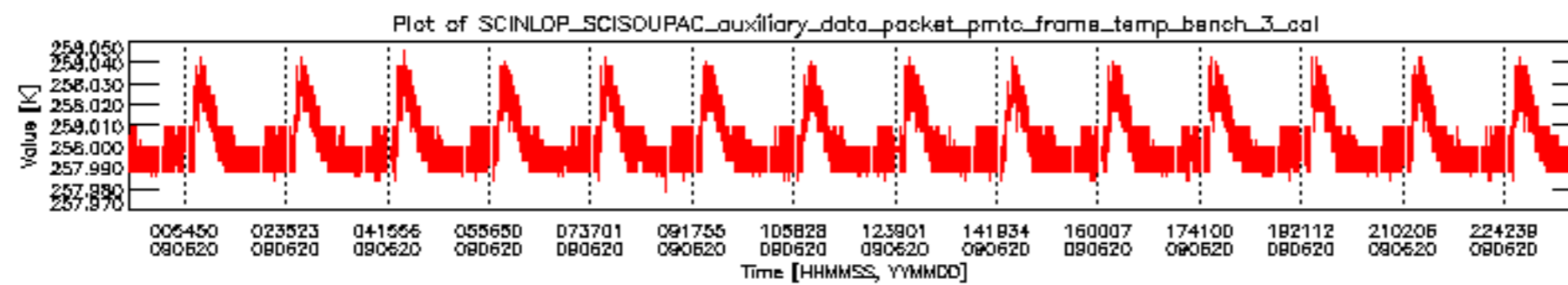


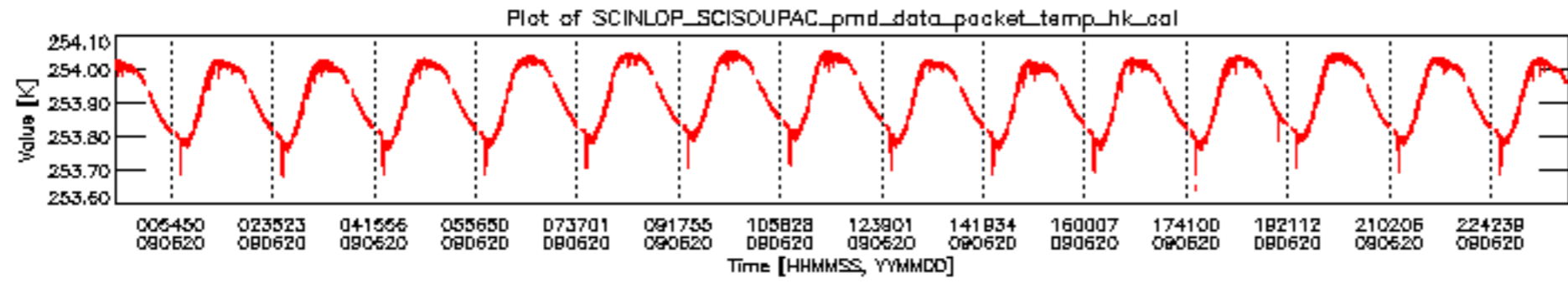
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090620\_8.PNG

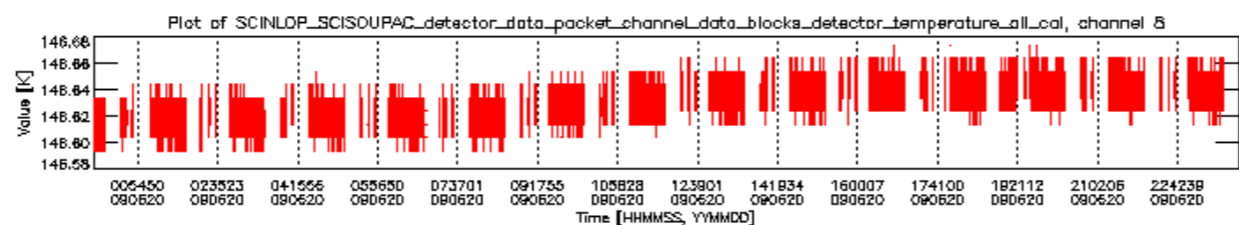
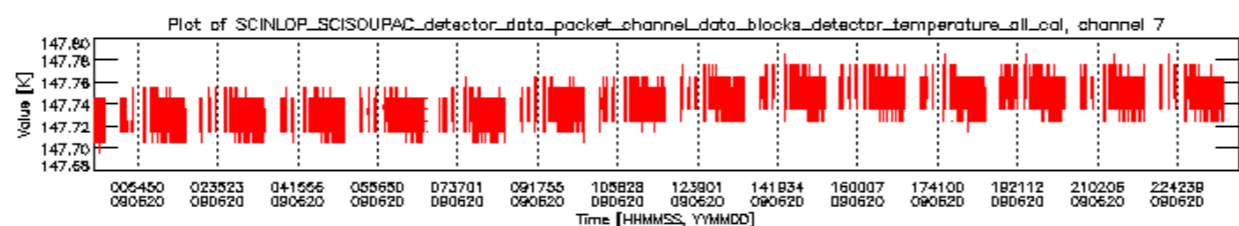
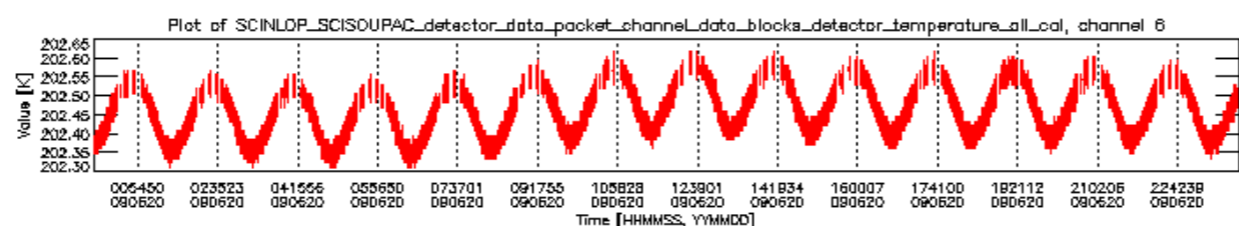
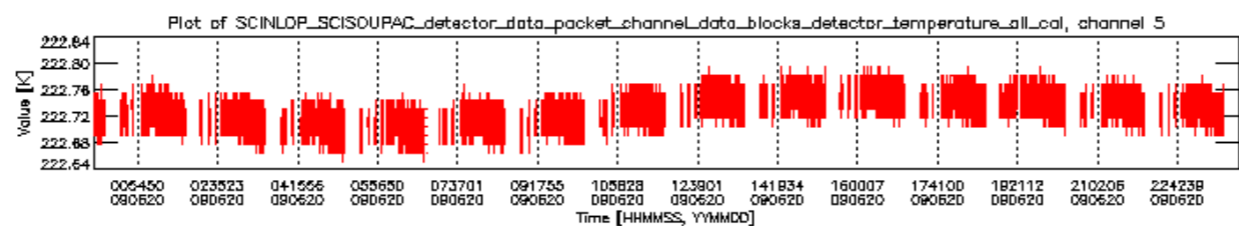
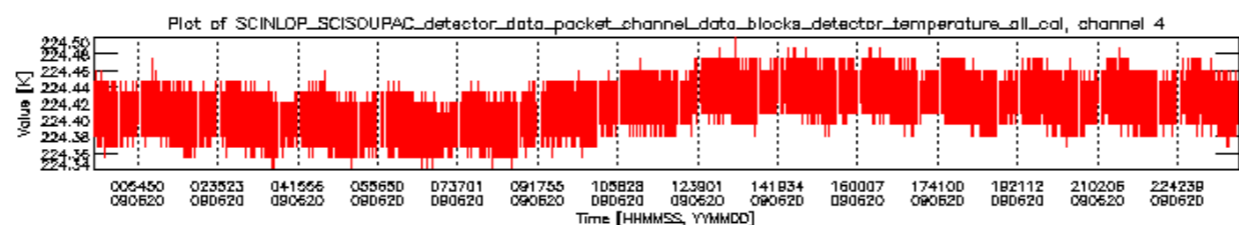
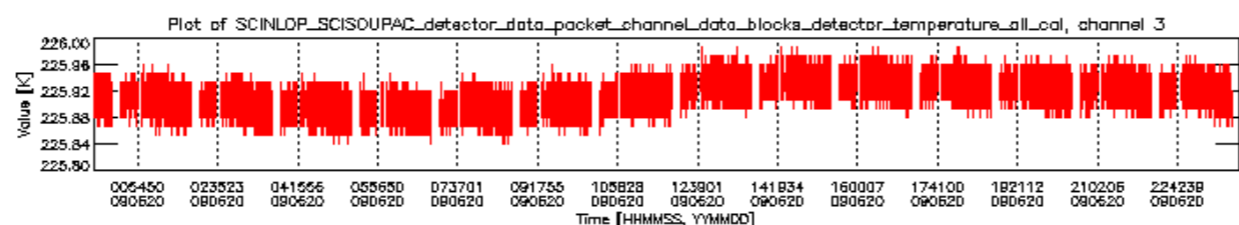
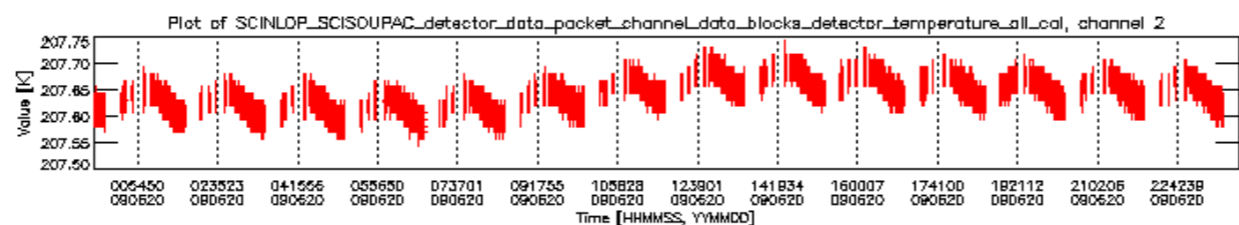
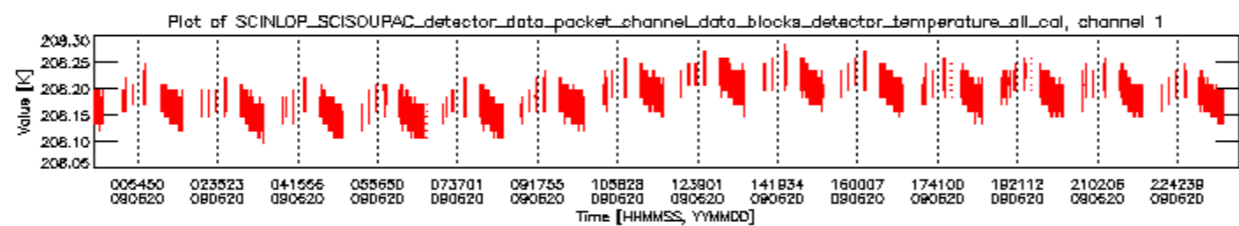


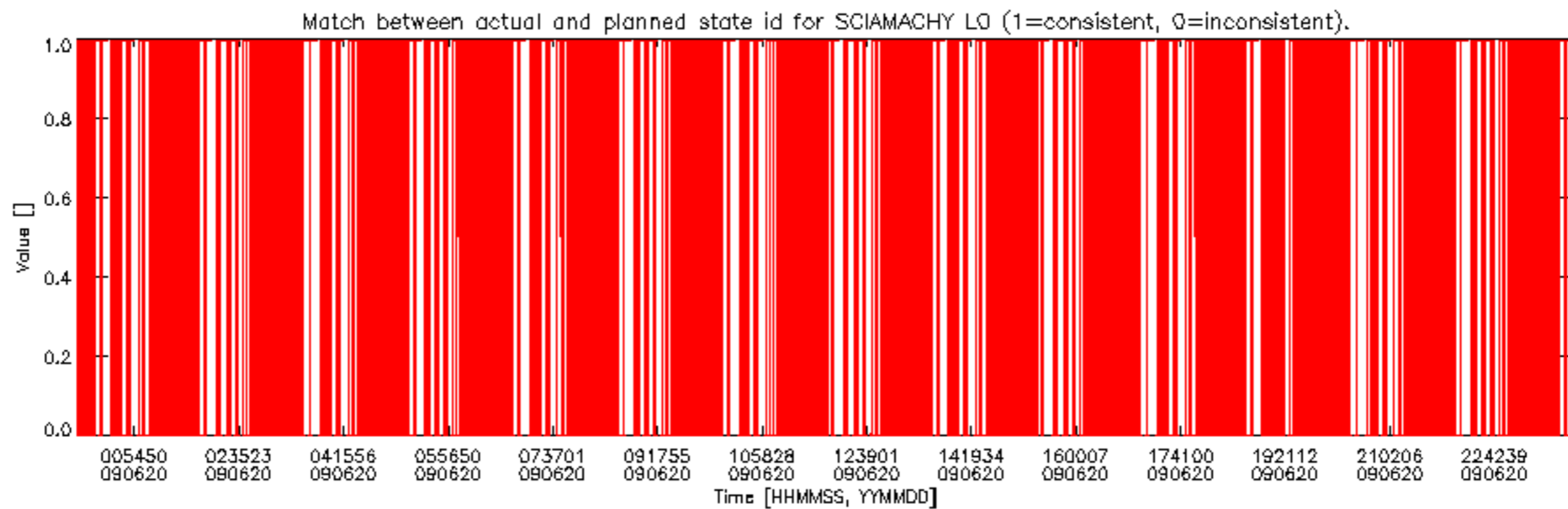
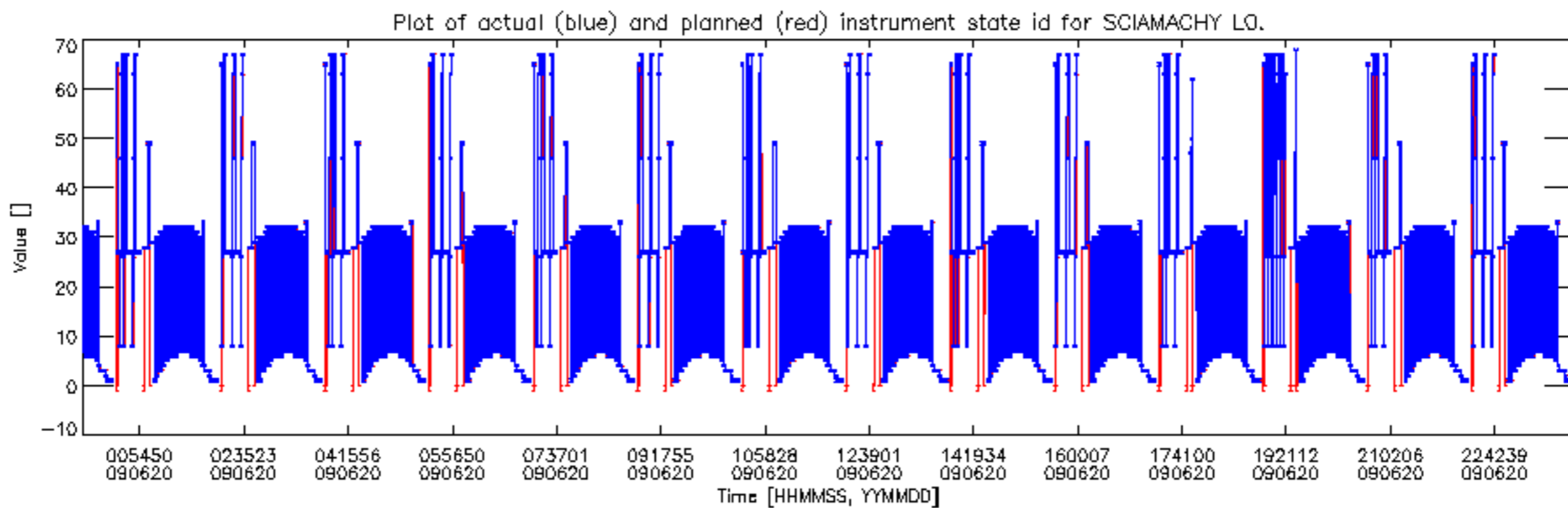












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 20JUN2009.  
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