

## 0. SCIAMACHY Daily Report for level 0 products

### [0.1 General Info](#)

### [0.2 Product Quality Indicators](#)

### [0.3 State monitoring](#)

### [0.4 ADF monitoring](#)

## 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	19MAY2009 14:49:28
Data source version	KSPT_L0/4303-N
Processing scope for products	14MAY2009 00:00:00 to 15MAY2009 00:00:00
Start time of first product within scope	13MAY2009 22:23:17
Stop time of last product within scope	15MAY2009 01:14:07
Total number of level 0 products	17
Number of level 0 products with errors	4

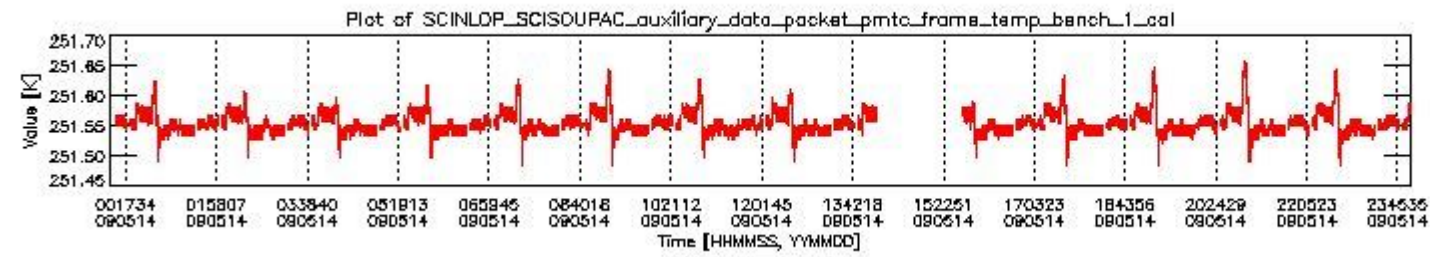
### 0.1.2 Summary per product

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

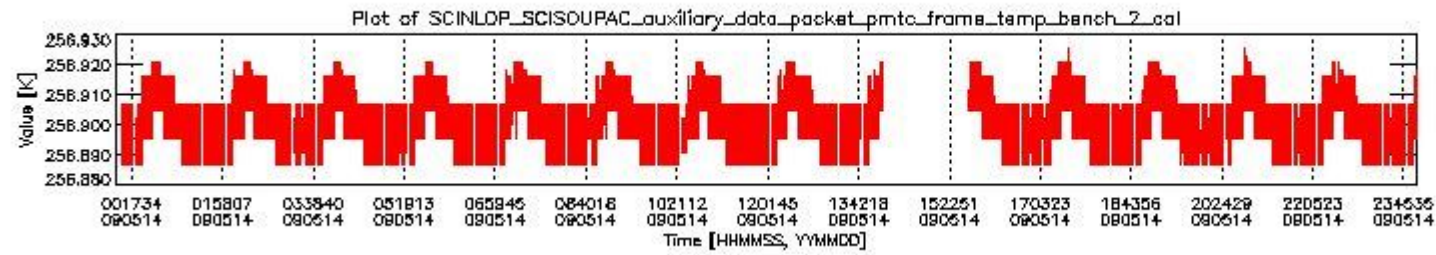
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090513_222317_000061682079_00029_37658_9138.N1	13MAY2009 22:23:17	14MAY2009 00:06:05	0	0	0	0	0
1	SCI_NL__OPNPDE20090514_000521_000058202079_00030_37659_9139.N1	14MAY2009 00:05:21	14MAY2009 01:42:21	0	0	0	0	0
2	SCI_NL__OPNPDE20090514_014221_000045442079_00031_37660_9140.N1	14MAY2009 01:42:21	14MAY2009 02:58:05	0	0	0	0	0
3	SCI_NL__OPNPDE20090514_025656_000061042079_00032_37661_9141.N1	14MAY2009 02:56:56	14MAY2009 04:38:40	0	0	0	0	0
4	SCI_NL__OPNPDE20090514_043840_000060922079_00033_37662_9142.N1	14MAY2009 04:38:40	14MAY2009 06:20:12	0	0	0	0	0
5	SCI_NL__OPNPDK20090514_062012_000041132079_00034_37663_1530.N1	14MAY2009 06:20:12	14MAY2009 07:28:45	0	0	0	0	0
6	SCI_NL__OPNPDK20090514_072750_000060922079_00035_37664_1531.N1	14MAY2009 07:27:50	14MAY2009 09:09:21	0	0	0	0	0
7	SCI_NL__OPNPDK20090514_090813_000061042079_00036_37665_1532.N1	14MAY2009 09:08:13	14MAY2009 10:49:57	1	0	1	0	0
8	SCI_NL__OPNPDK20090514_104901_000058982079_00037_37666_1533.N1	14MAY2009 10:49:01	14MAY2009 12:27:19	1	1	1	0	0
9	SCI_NL__OPNPDK20090514_122719_000060482079_00038_37667_1534.N1	14MAY2009 12:27:19	14MAY2009 14:08:08	1	1	0	0	0
10	SCI_NL__OPNPDK20090514_140659_000058432079_00039_37668_1535.N1	14MAY2009 14:06:59	14MAY2009 15:44:22	1	1	1	0	0
11	SCI_NL__OPNPDK20090514_154422_000058712079_00040_37669_1536.N1	14MAY2009 15:44:22	14MAY2009 17:22:13	0	0	0	0	0
12	SCI_NL__OPNPDK20090514_172008_000060362079_00041_37670_1537.N1	14MAY2009 17:20:08	14MAY2009 19:00:44	0	0	0	0	0
13	SCI_NL__OPNPDK20090514_185936_000060892079_00042_37671_1538.N1	14MAY2009 18:59:36	14MAY2009 20:41:04	0	0	0	0	0
14	SCI_NL__OPNPDE20090514_203900_000044032079_00043_37672_9143.N1	14MAY2009 20:39:00	14MAY2009 21:52:22	0	0	0	0	0
15	SCI_NL__OPNPDE20090514_215135_000061682079_00043_37672_9144.N1	14MAY2009 21:51:35	14MAY2009 23:34:23	0	0	0	0	0
16	SCI_NL__OPNPDE20090514_233255_000060722079_00044_37673_9145.N1	14MAY2009 23:32:55	15MAY2009 01:14:07	0	0	0	0	0

## 0.2 Product Quality Indicators

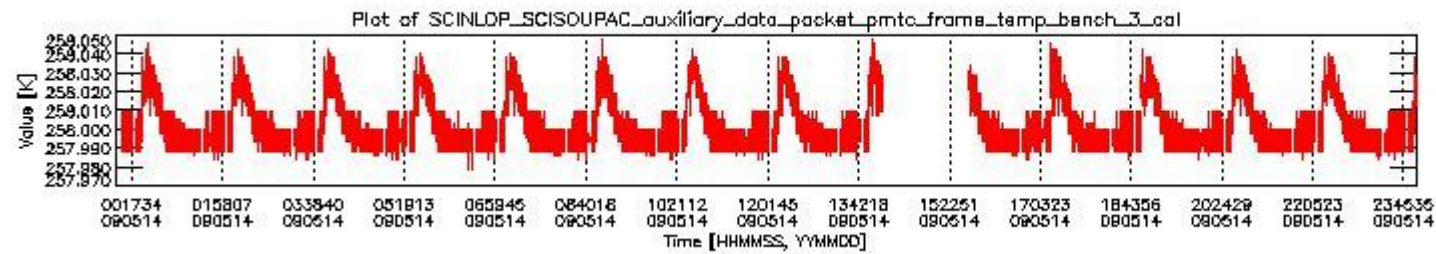
This section shows information about product quality, currently temperatures.



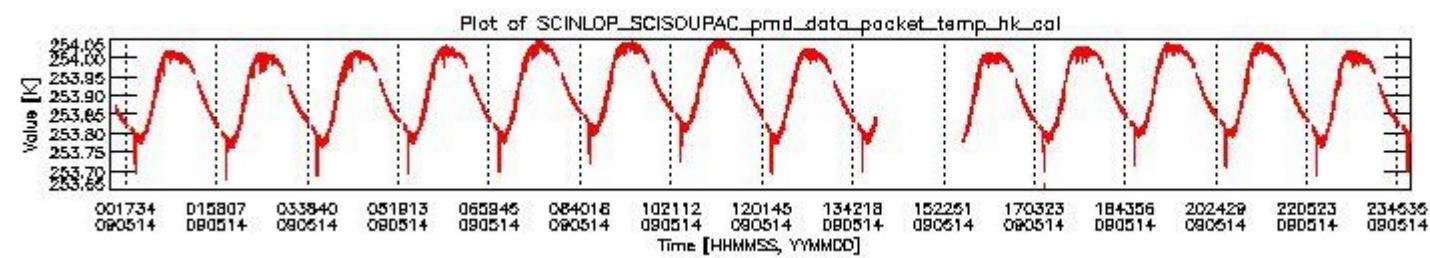
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090514\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090514\_1.PNG

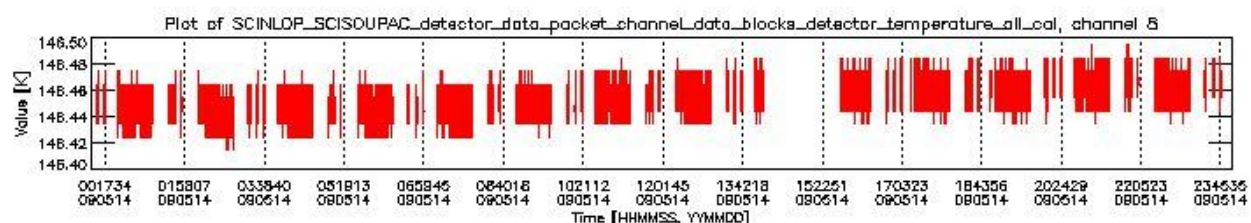
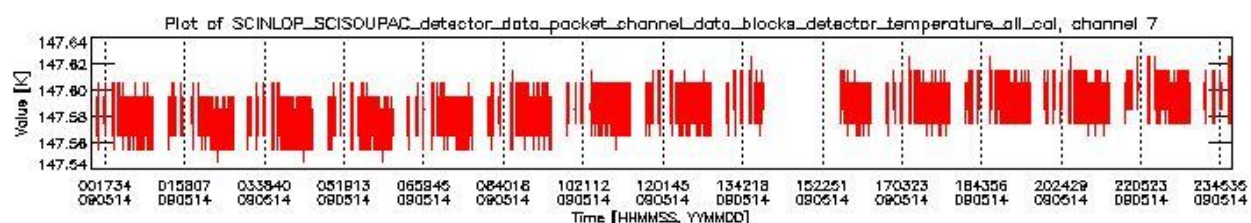
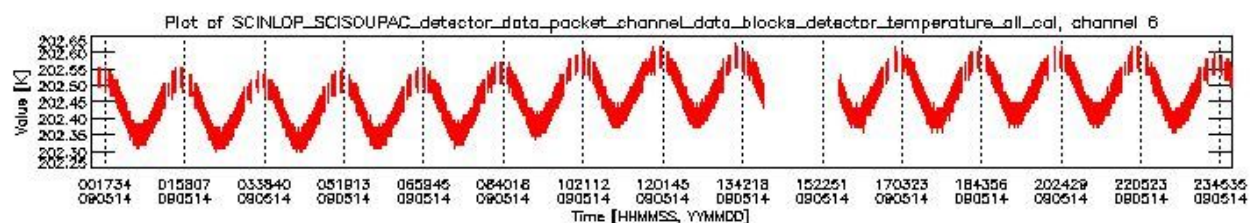
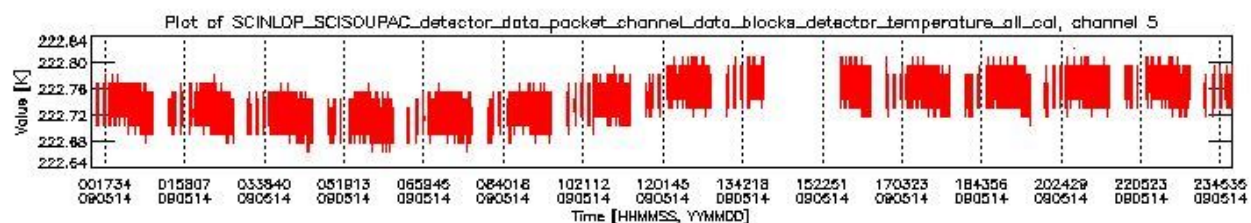
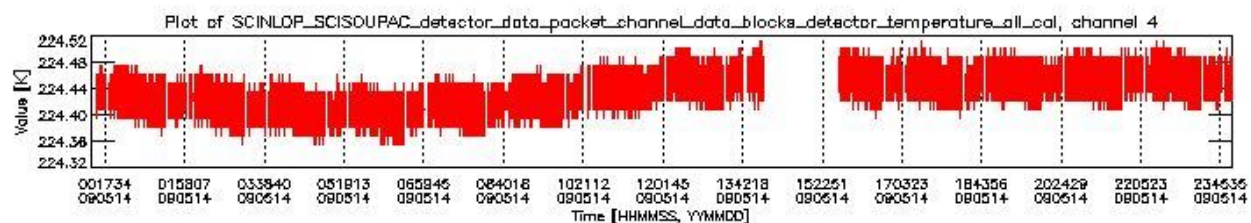
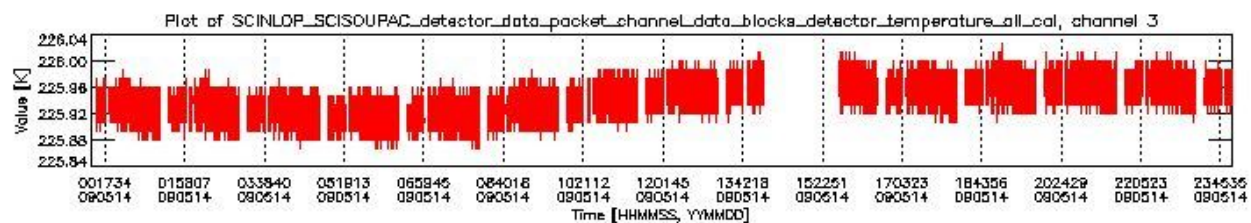
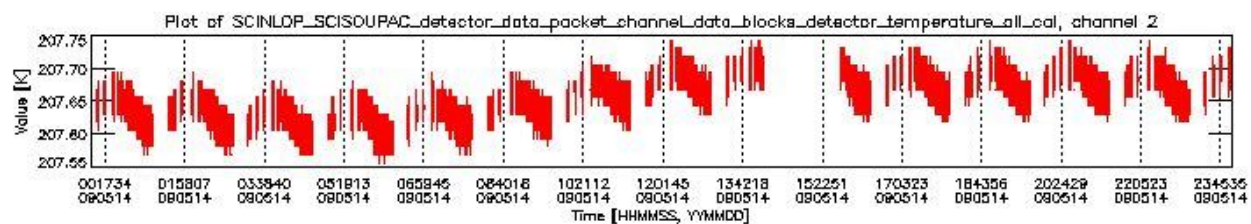
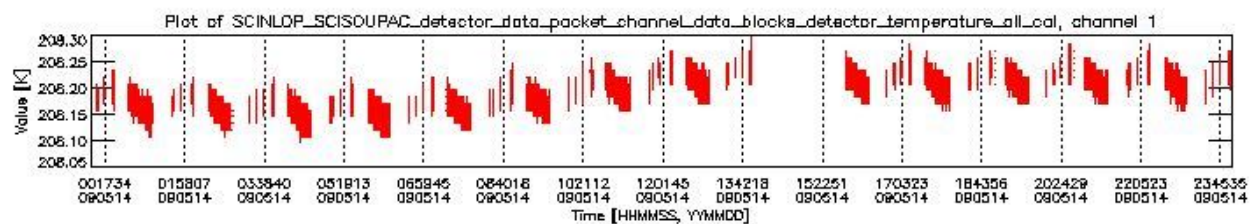


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090514\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090514\_3.PNG



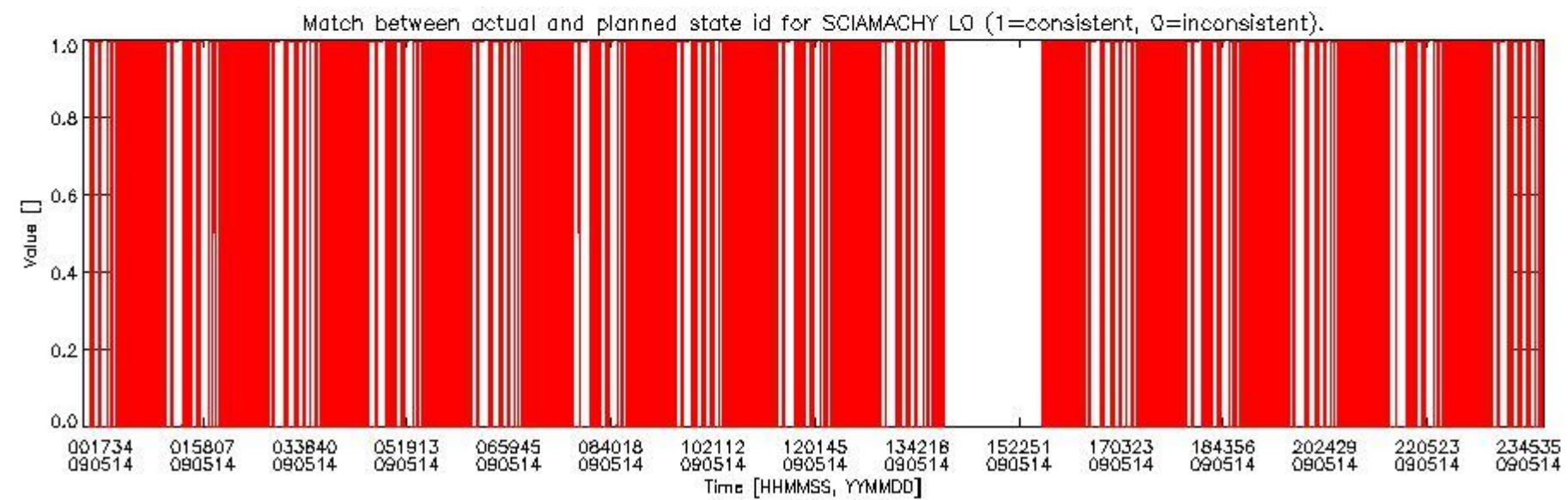
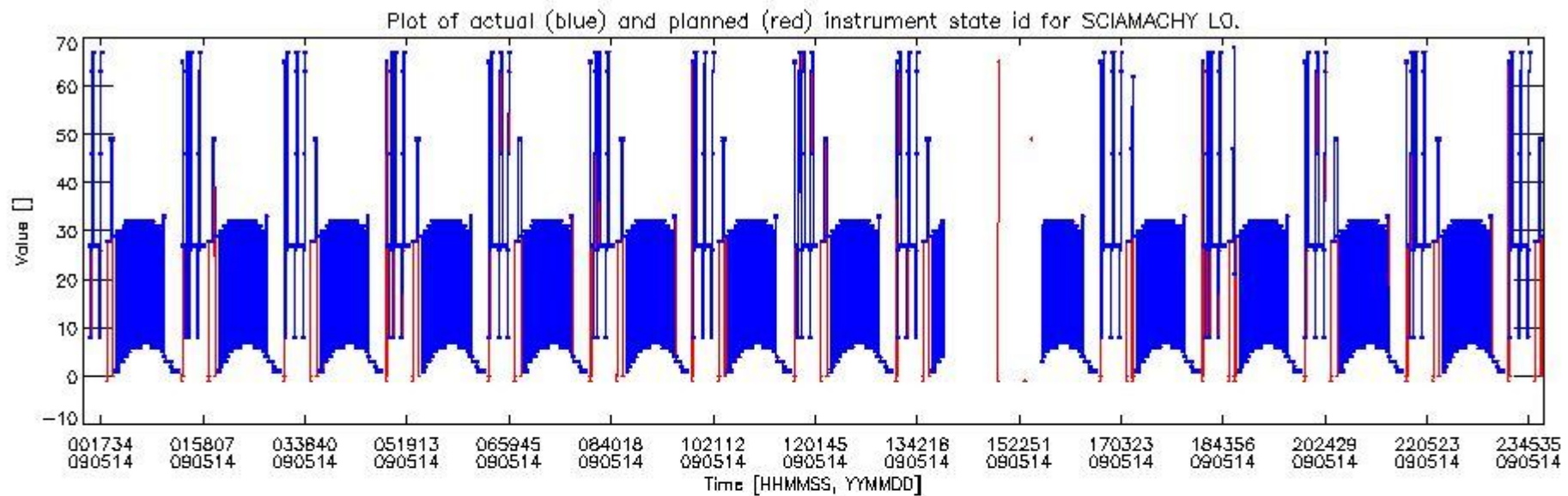


### 0.3 State monitoring

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: **43347**

#	Actual time	Actual value	Planned time	Planned value
0	14MAY2009 00:06:49.423006	8	14MAY2009 00:06:49.423006	27
1	14MAY2009 00:06:50.548005	8	14MAY2009 00:06:50.548005	27
2	14MAY2009 00:06:51.547999	8	14MAY2009 00:06:51.547999	27
3	14MAY2009 00:06:52.547994	8	14MAY2009 00:06:52.547994	27
4	14MAY2009 00:06:53.548028	8	14MAY2009 00:06:53.548028	27
5	14MAY2009 00:06:54.423019	8	14MAY2009 00:06:54.423019	27
6	14MAY2009 00:06:54.548023	8	14MAY2009 00:06:54.548023	27
7	14MAY2009 00:06:55.548018	8	14MAY2009 00:06:55.548018	27
8	14MAY2009 00:06:56.548012	8	14MAY2009 00:06:56.548012	27
9	14MAY2009 00:06:57.548007	8	14MAY2009 00:06:57.548007	27
10	14MAY2009 00:06:58.548001	8	14MAY2009 00:06:58.548001	27
11	14MAY2009 00:06:59.422992	8	14MAY2009 00:06:59.422992	27
12	14MAY2009 00:06:59.547996	8	14MAY2009 00:06:59.547996	27
13	14MAY2009 00:07:32.977708	26	14MAY2009 00:07:32.977708	8
14	14MAY2009 00:07:33.602690	26	14MAY2009 00:07:33.602690	8
15	14MAY2009 00:07:34.102707	26	14MAY2009 00:07:34.102707	8
16	14MAY2009 00:07:34.602724	26	14MAY2009 00:07:34.602724	8
17	14MAY2009 00:07:35.102701	26	14MAY2009 00:07:35.102701	8
18	14MAY2009 00:07:35.602719	26	14MAY2009 00:07:35.602719	8
19	14MAY2009 00:07:36.102696	26	14MAY2009 00:07:36.102696	8
...	...	...	...	...



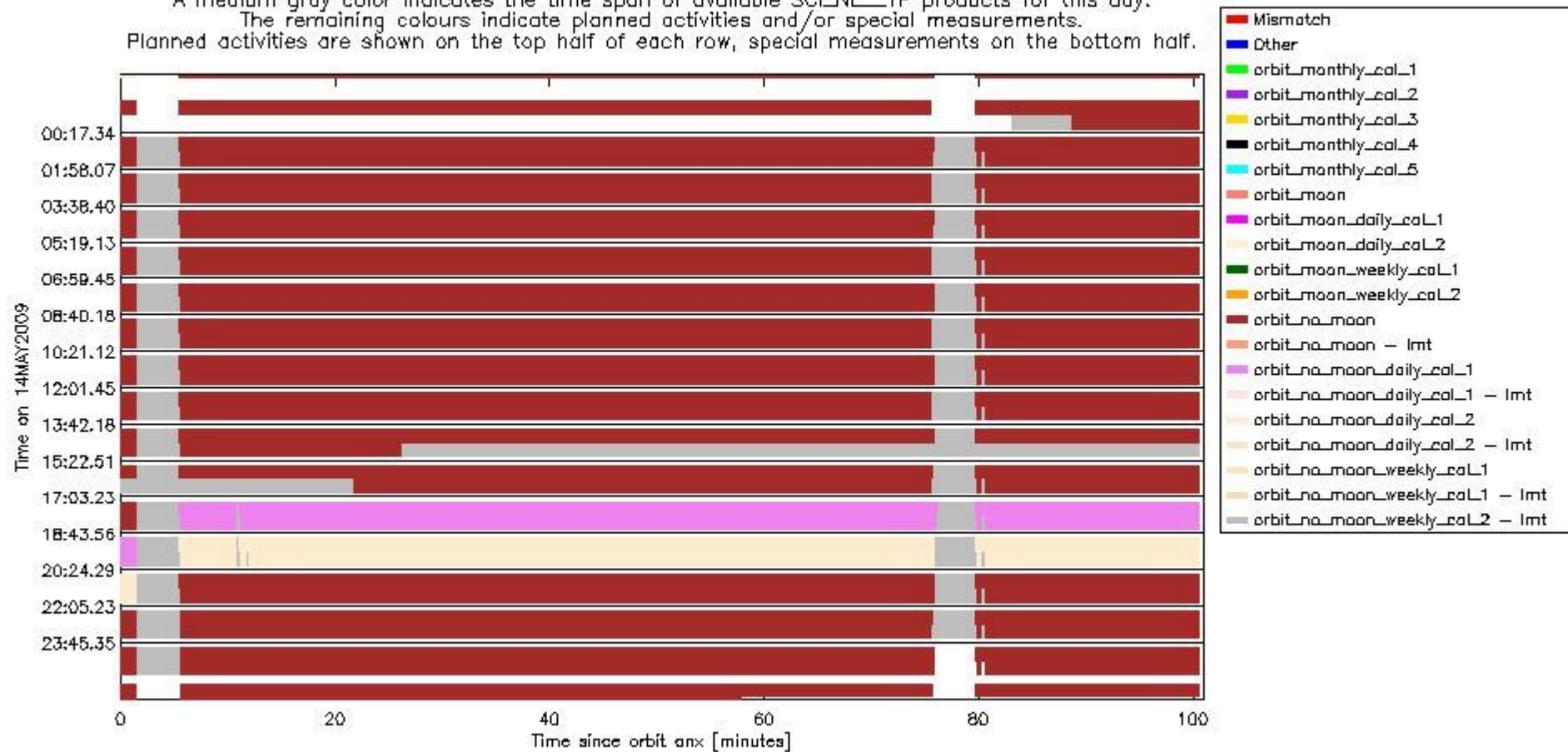
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090514\_5.PNG

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 14MAY2009.  
 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\_20090514\_6.PNG

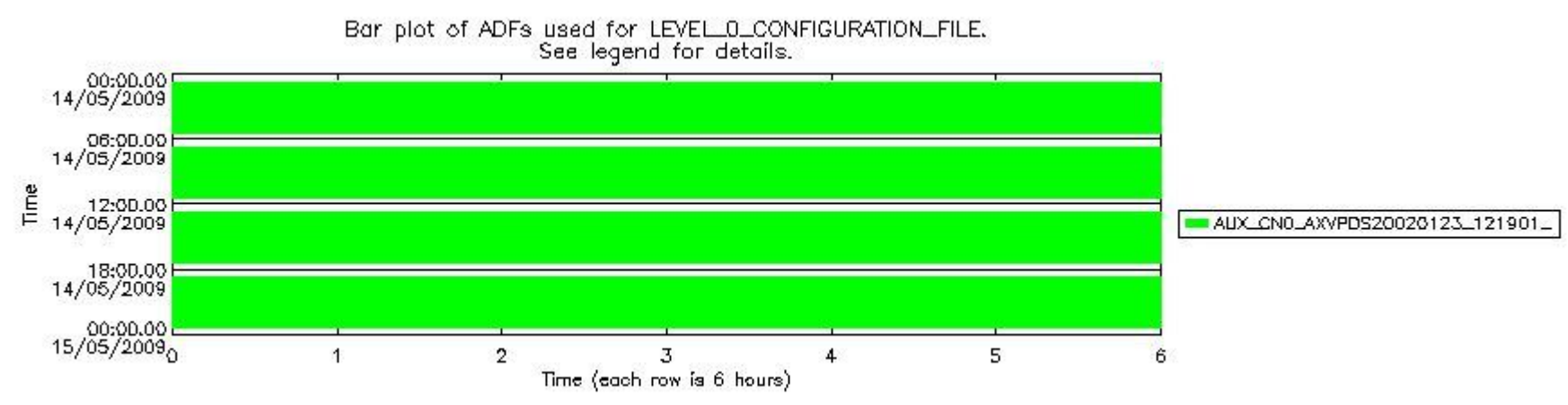
## 0.4 ADF monitoring

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

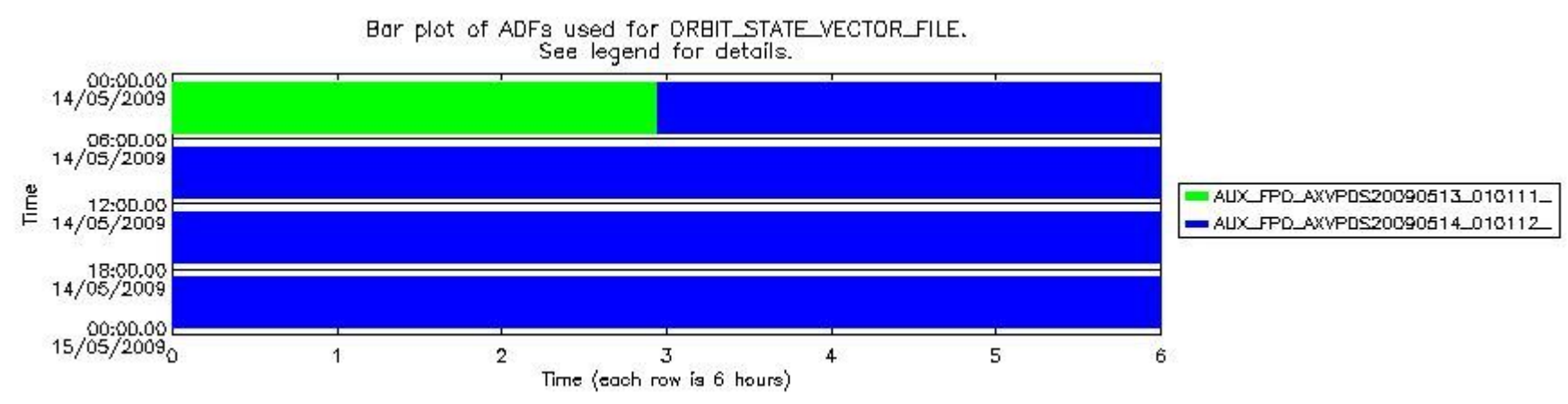
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

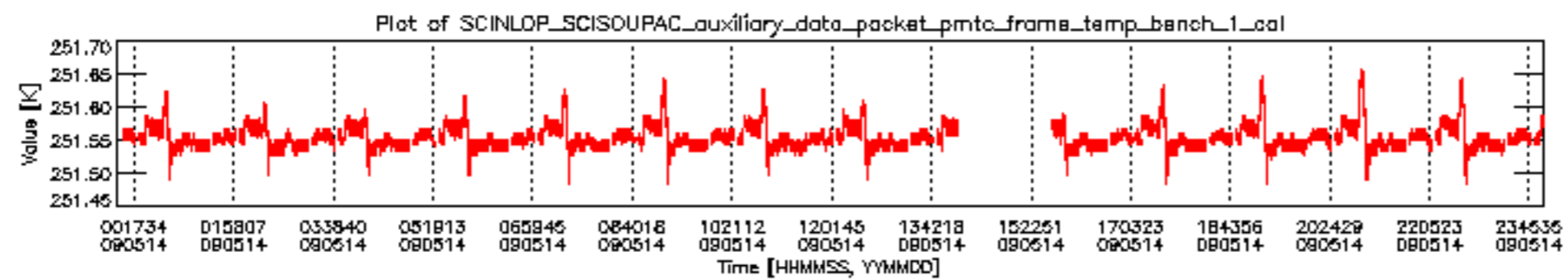
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20090513_010111_20090512_194715_20090522_211329</b>
2	<b>AUX_FPO_AXVPDS20090514_010112_20090513_191538_20090523_204152</b>



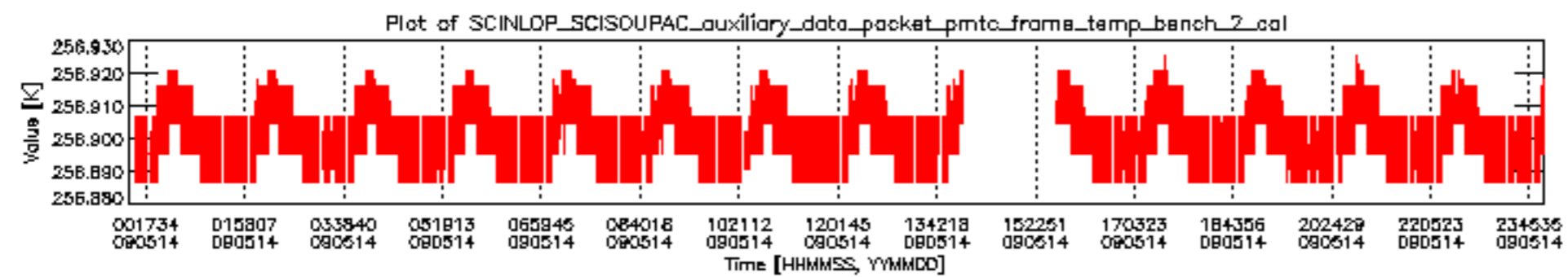
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090514\_7.PNG

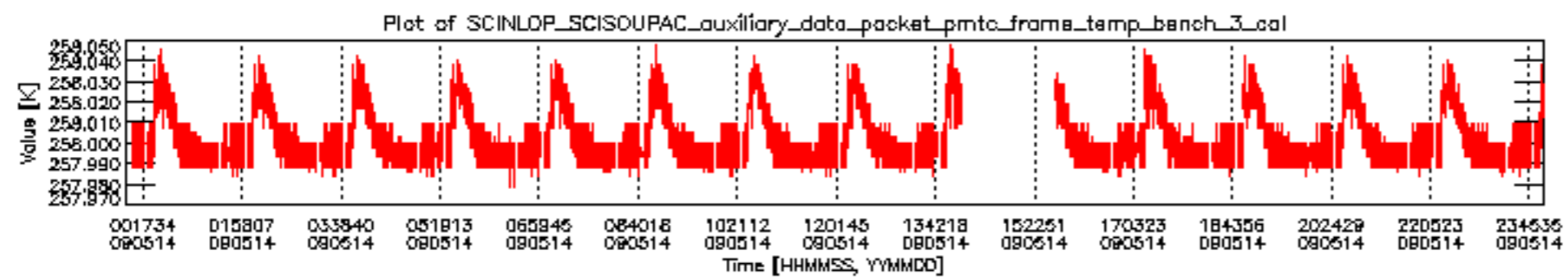


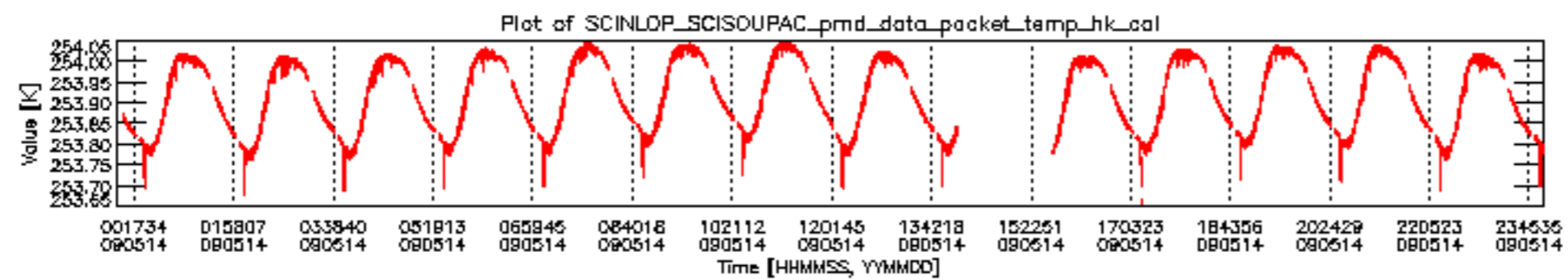
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090514\_8.PNG

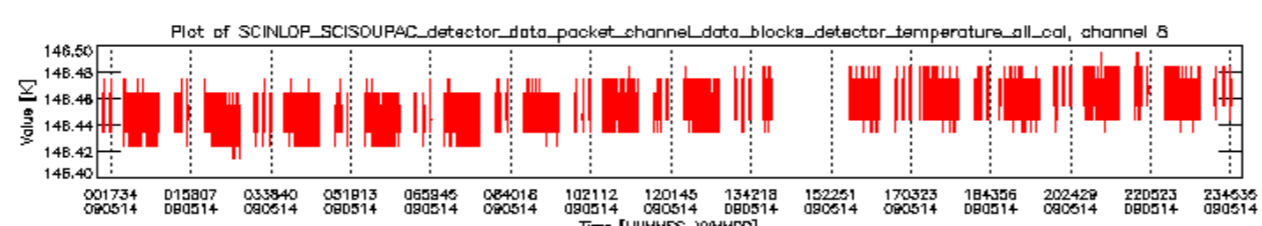
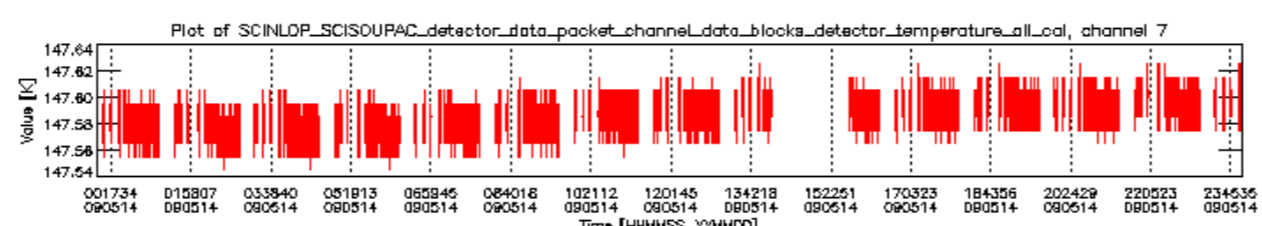
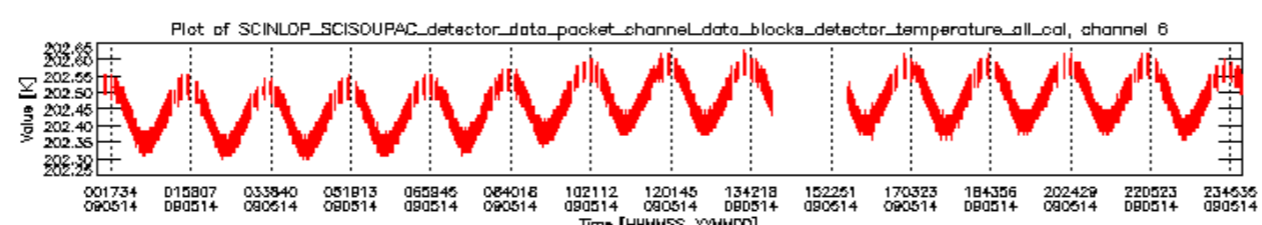
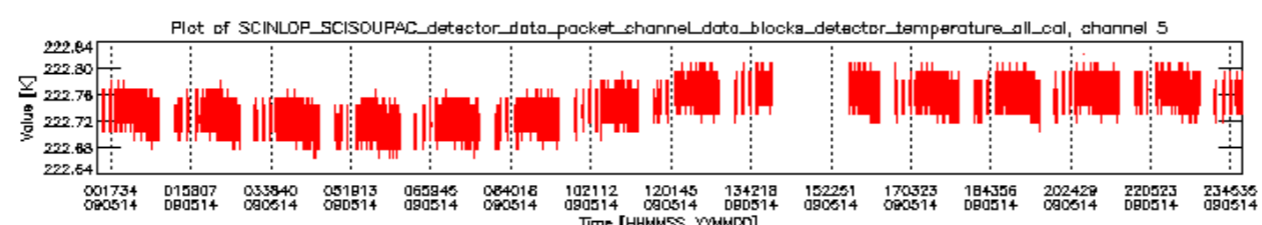
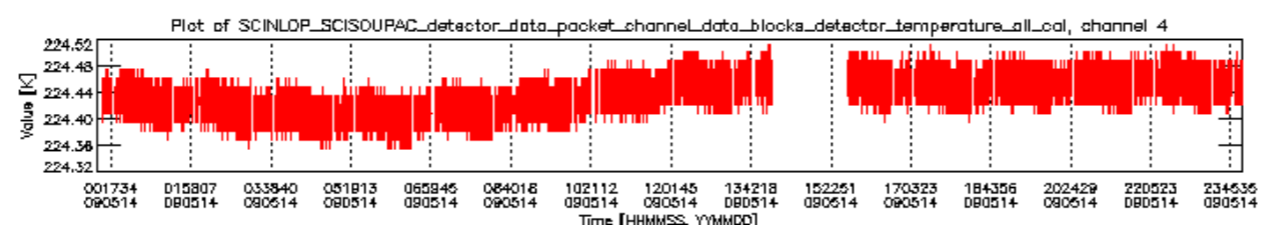
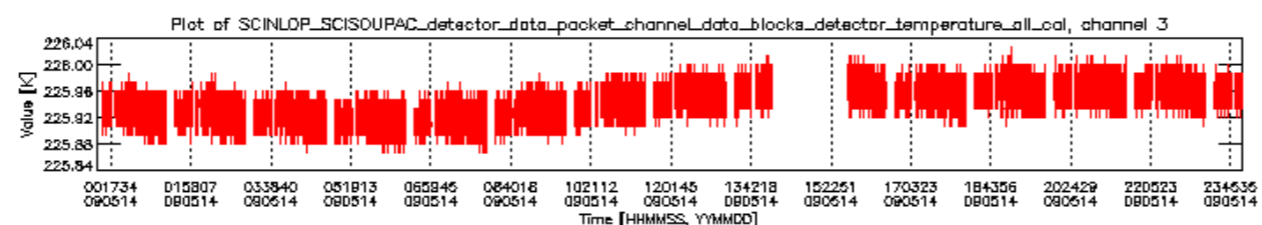
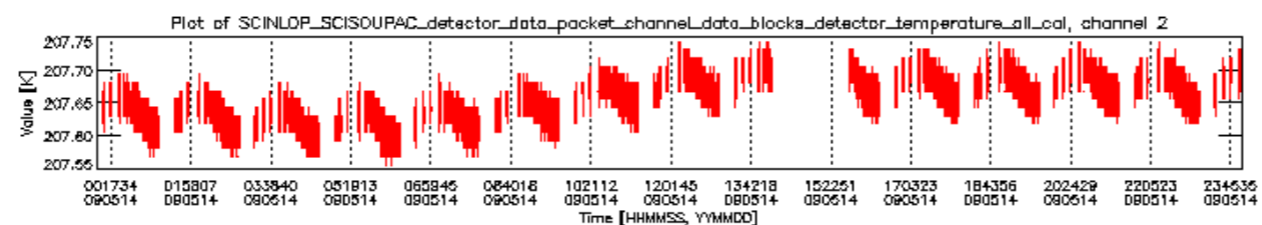
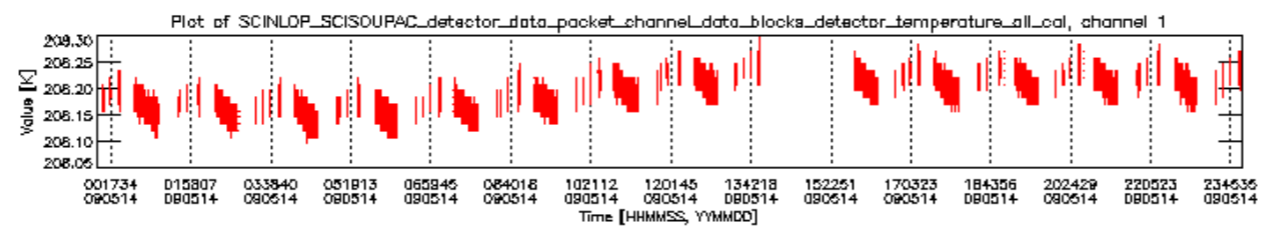




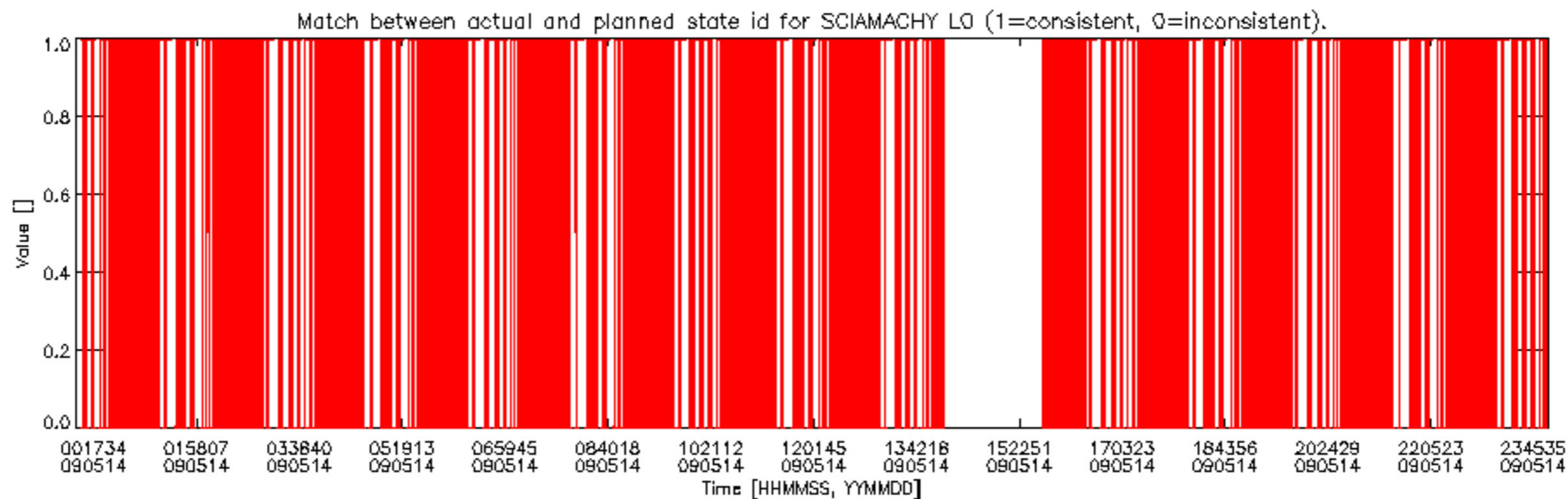
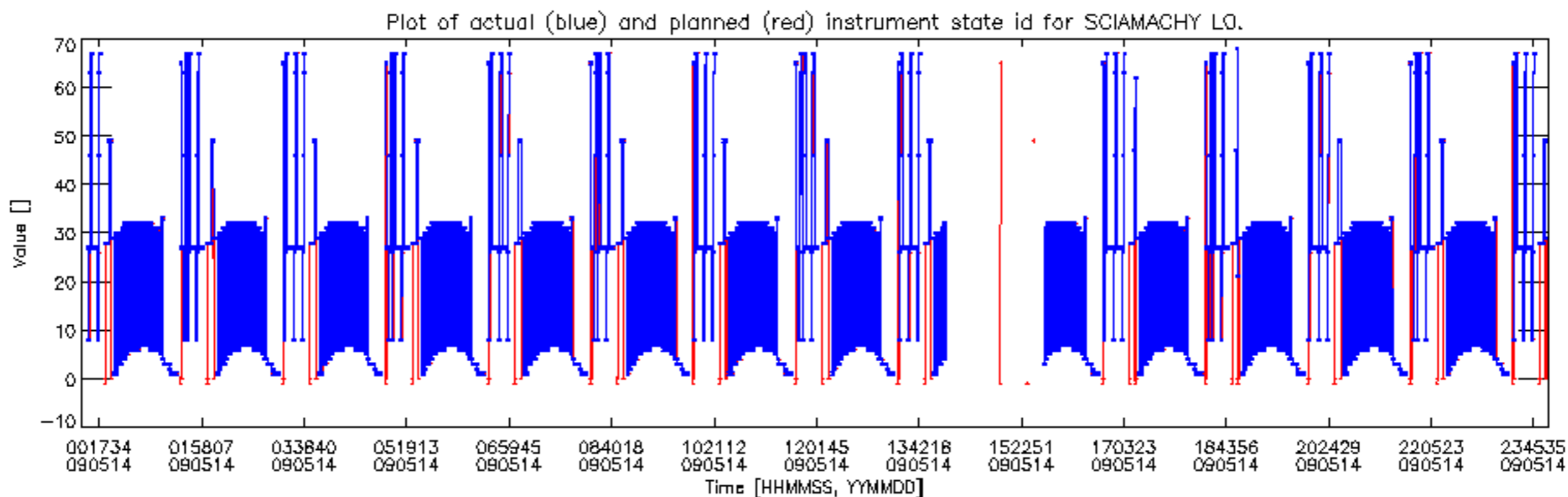












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 14MAY2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

