

## 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	29MAY2009 05:29:38
Data source version	KSPT_L0/4303-N
Processing scope for products	25MAY2009 00:00:00 to 26MAY2009 00:00:00
Start time of first product within scope	24MAY2009 23:18:30
Stop time of last product within scope	26MAY2009 00:28:17
Total number of level 0 products	16
Number of level 0 products with errors	3

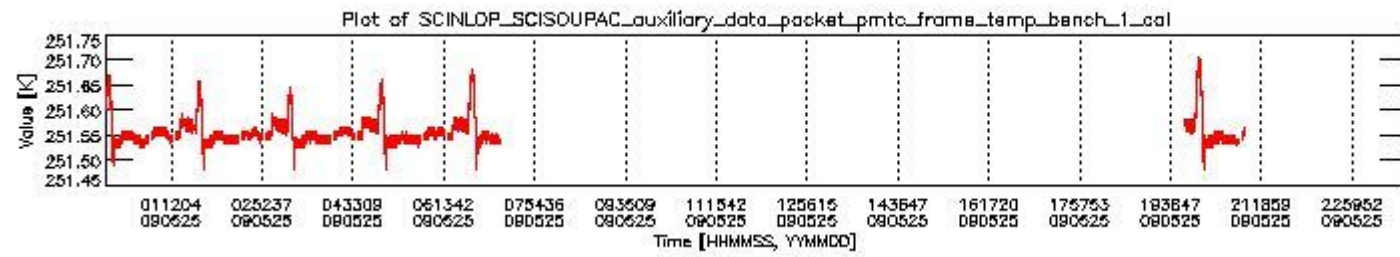
### 0.1.2 Summary per product

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

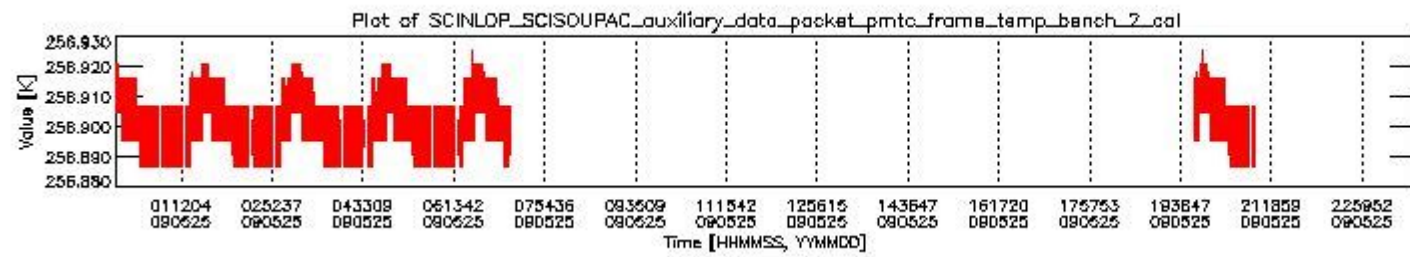
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090524_231830_000062092079_00187_37816_9211.N1	24MAY2009 23:18:30	25MAY2009 01:01:59	0	0	0	0	0
1	SCI_NL__OPNPDE20090525_010042_000047142079_00188_37817_9212.N1	25MAY2009 01:00:42	25MAY2009 02:19:15	0	0	0	0	0
2	SCI_NL__OPNPDE20090525_021807_000056932079_00189_37818_9213.N1	25MAY2009 02:18:07	25MAY2009 03:53:00	0	0	0	0	0
3	SCI_NL__OPNPDE20090525_035300_000060492079_00190_37819_9214.N1	25MAY2009 03:53:00	25MAY2009 05:33:48	0	0	0	0	0
4	SCI_NL__OPNPDE20090525_053240_000061602079_00191_37820_9215.N1	25MAY2009 05:32:40	25MAY2009 07:15:20	0	0	0	0	0
5	SCI_NL__OPNPDK20090525_071411_000040582079_00192_37821_1629.N1	25MAY2009 07:14:11	25MAY2009 08:21:49	0	0	0	0	0
6	SCI_NL__OPNPDK20090525_082149_000060922079_00193_37822_1630.N1	25MAY2009 08:21:49	25MAY2009 10:03:20	0	0	0	0	0
7	SCI_NL__OPNPDK20090525_100212_000061042079_00194_37823_1631.N1	25MAY2009 10:02:12	25MAY2009 11:43:56	0	0	0	0	0
8	SCI_NL__OPNPDK20090525_114300_000058992079_00195_37824_1632.N1	25MAY2009 11:43:00	25MAY2009 13:21:19	1	1	0	0	0
9	SCI_NL__OPNPDK20090525_132119_000059242079_00196_37825_1633.N1	25MAY2009 13:21:19	25MAY2009 15:00:03	0	0	0	0	0
10	SCI_NL__OPNPDK20090525_145854_000059672079_00197_37826_1634.N1	25MAY2009 14:58:54	25MAY2009 16:38:21	1	1	0	0	0
11	SCI_NL__OPNPDK20090525_163725_000058712079_00198_37827_1635.N1	25MAY2009 16:37:25	25MAY2009 18:15:16	1	0	1	0	0
12	SCI_NL__OPNPDK20090525_181407_000060362079_00199_37828_1636.N1	25MAY2009 18:14:07	25MAY2009 19:54:43	0	0	0	0	0
13	SCI_NL__OPNPDE20090525_195335_000040202079_00200_37829_9216.N1	25MAY2009 19:53:35	25MAY2009 21:00:34	0	0	0	0	0
14	SCI_NL__OPNPDE20090525_210034_000065472079_00200_37829_9217.N1	25MAY2009 21:00:34	25MAY2009 22:49:41	0	0	0	0	0
15	SCI_NL__OPNPDE20090525_224813_000060042079_00201_37830_9218.N1	25MAY2009 22:48:13	26MAY2009 00:28:17	0	0	0	0	0

## 0.2 Product Quality Indicators

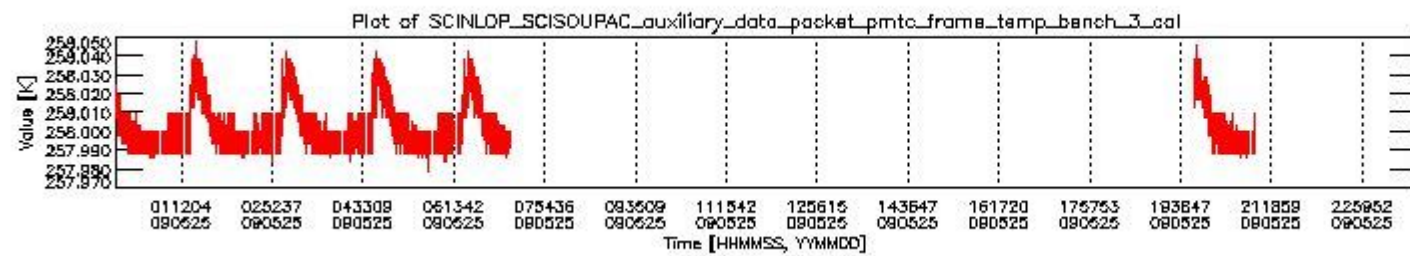
This section shows information about product quality, currently temperatures.



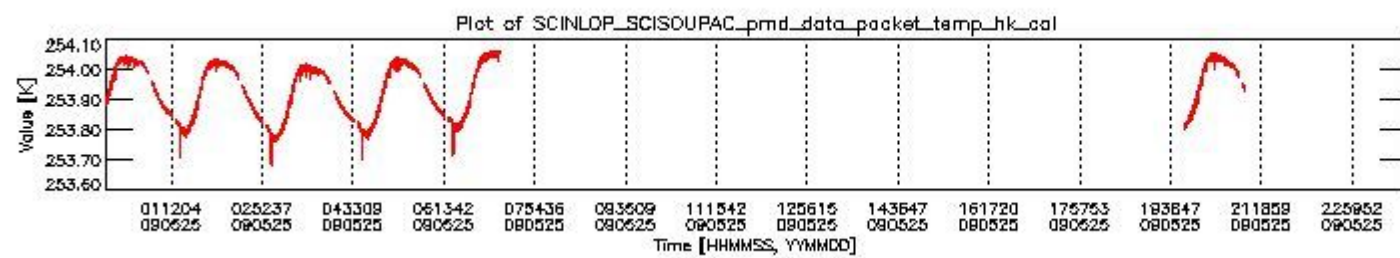
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090525\_0.PNG



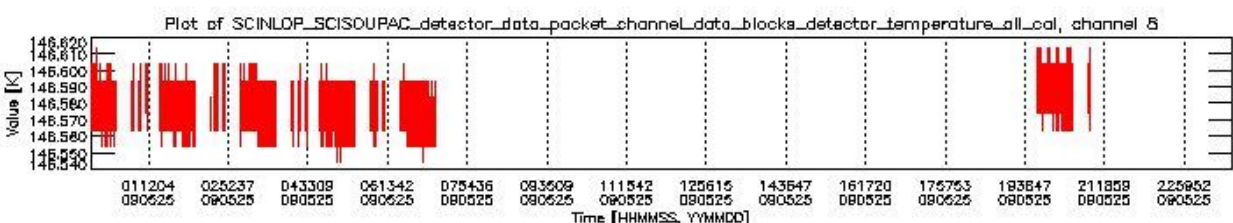
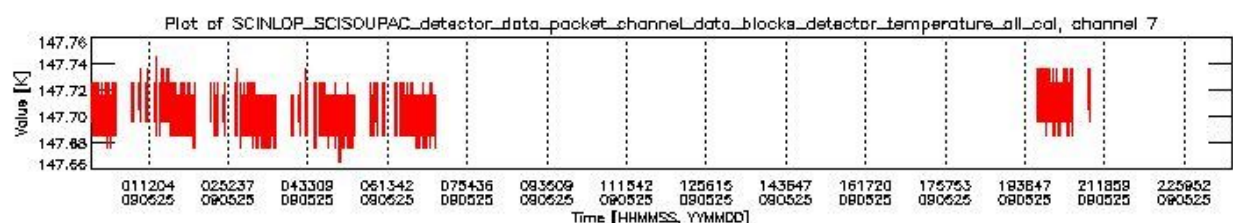
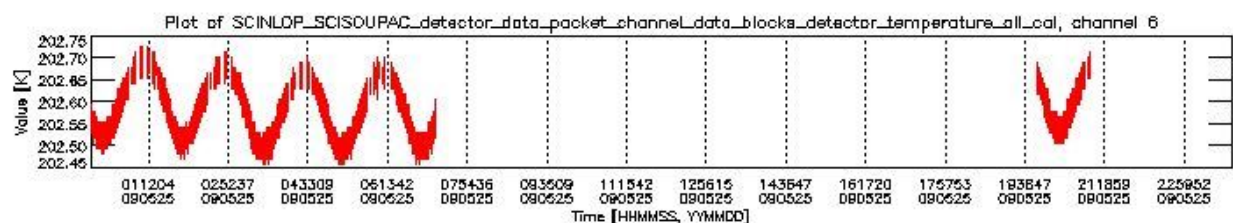
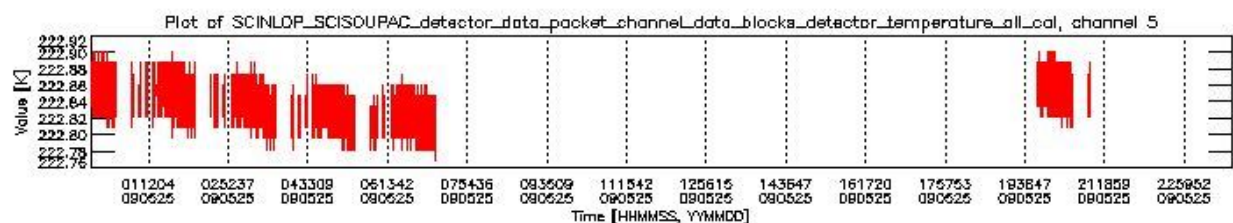
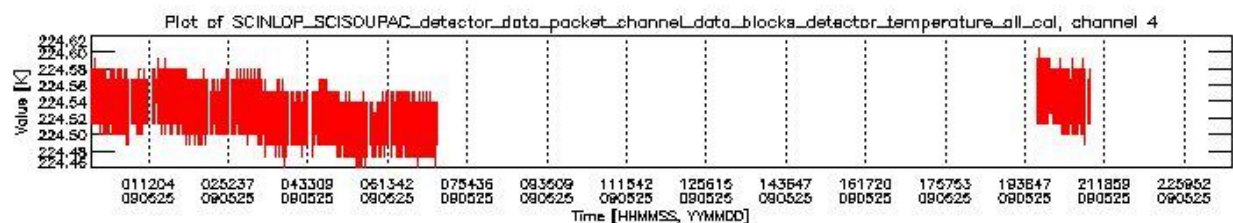
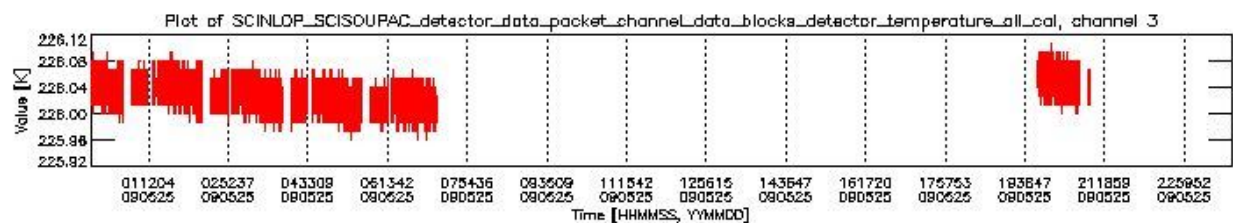
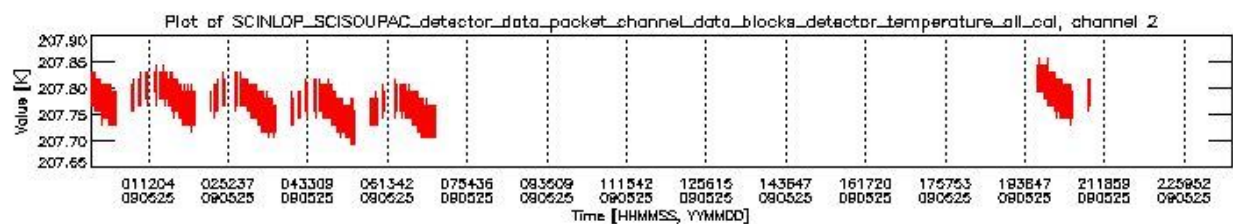
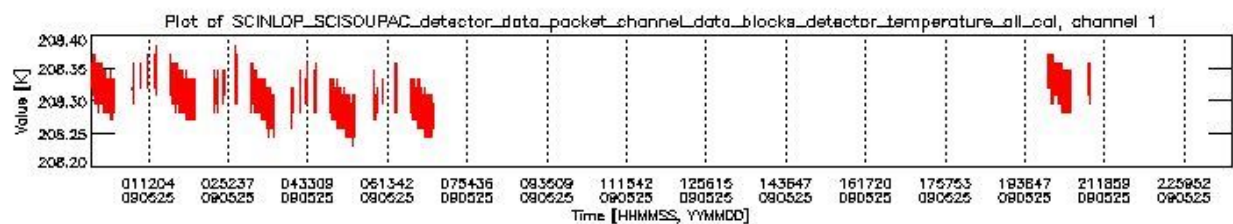
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090525\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090525\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090525\_3.PNG



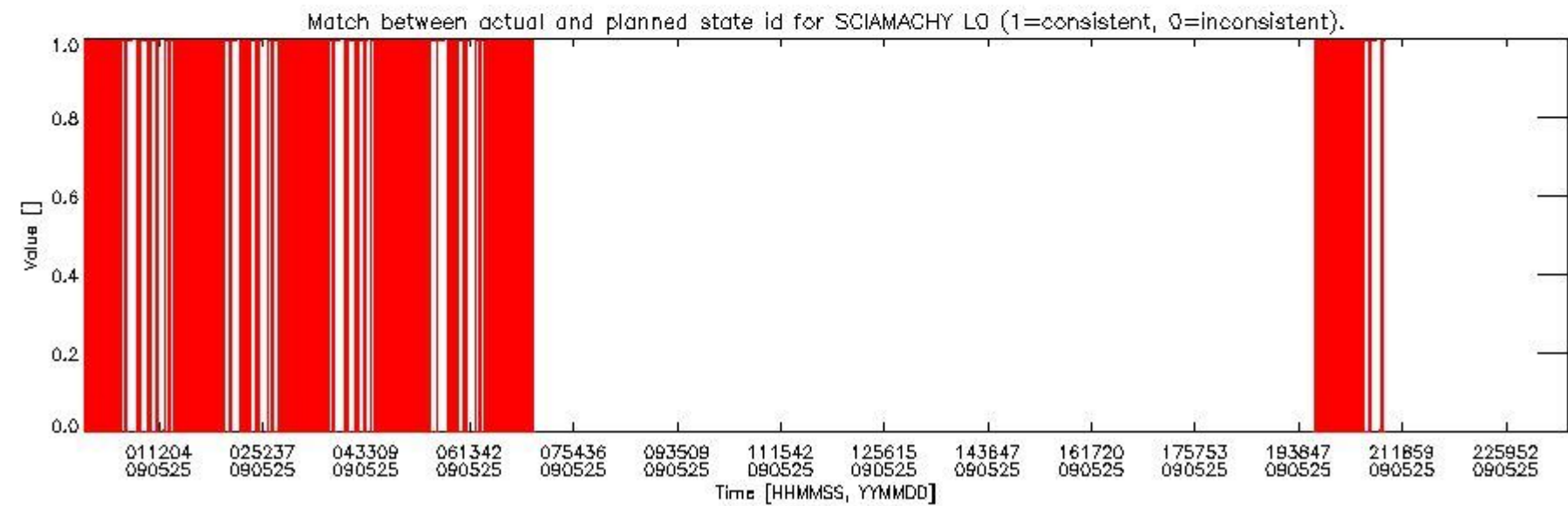
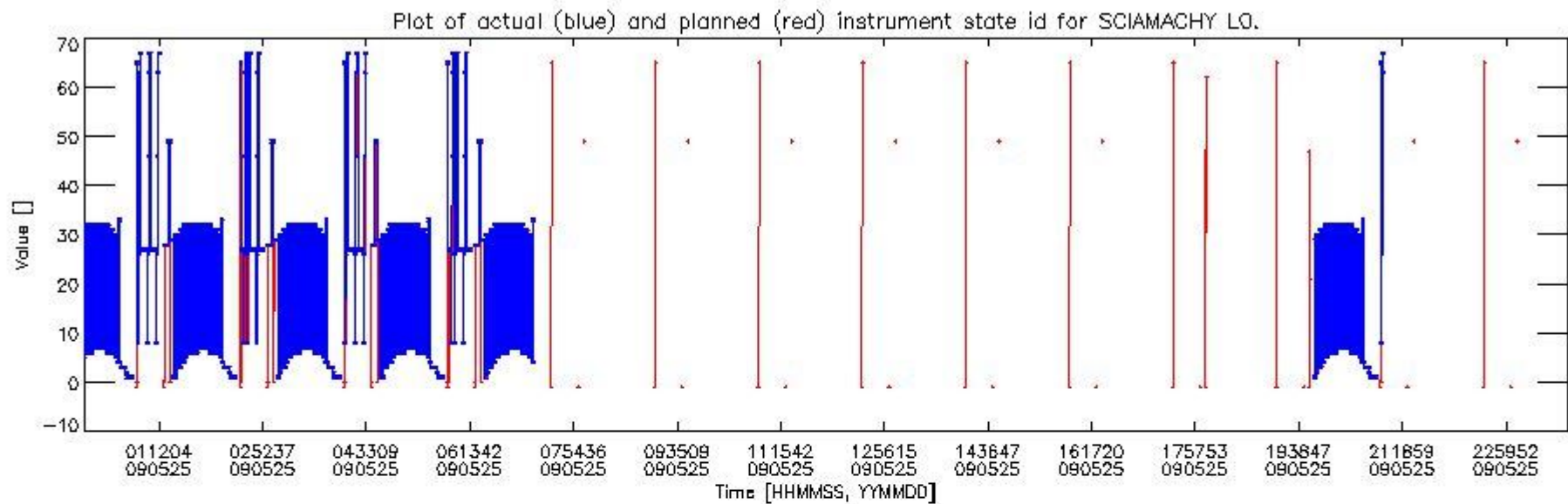
### 0.3 State monitoring

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: **17058**

#	Actual time	Actual value	Planned time	Planned value
0	25MAY2009 00:00:42.311700	6	25MAY2009 00:00:42.311700	32
1	25MAY2009 00:00:42.686713	6	25MAY2009 00:00:42.686713	32
2	25MAY2009 00:00:42.936721	6	25MAY2009 00:00:42.936721	32
3	25MAY2009 00:00:43.186690	6	25MAY2009 00:00:43.186690	32
4	25MAY2009 00:00:43.436699	6	25MAY2009 00:00:43.436699	32
5	25MAY2009 00:00:43.686707	6	25MAY2009 00:00:43.686707	32
6	25MAY2009 00:00:43.936716	6	25MAY2009 00:00:43.936716	32
7	25MAY2009 00:00:44.186725	6	25MAY2009 00:00:44.186725	32
8	25MAY2009 00:00:44.436693	6	25MAY2009 00:00:44.436693	32
9	25MAY2009 00:00:44.686702	6	25MAY2009 00:00:44.686702	32
10	25MAY2009 00:00:44.936711	6	25MAY2009 00:00:44.936711	32
11	25MAY2009 00:00:45.186719	6	25MAY2009 00:00:45.186719	32
12	25MAY2009 00:00:45.436688	6	25MAY2009 00:00:45.436688	32
13	25MAY2009 00:00:45.686696	6	25MAY2009 00:00:45.686696	32
14	25MAY2009 00:00:45.936705	6	25MAY2009 00:00:45.936705	32
15	25MAY2009 00:00:46.186714	6	25MAY2009 00:00:46.186714	32
16	25MAY2009 00:00:46.436723	6	25MAY2009 00:00:46.436723	32
17	25MAY2009 00:00:46.686691	6	25MAY2009 00:00:46.686691	32
18	25MAY2009 00:00:46.936700	6	25MAY2009 00:00:46.936700	32
19	25MAY2009 00:00:47.186708	6	25MAY2009 00:00:47.186708	32
	...	...	...	...



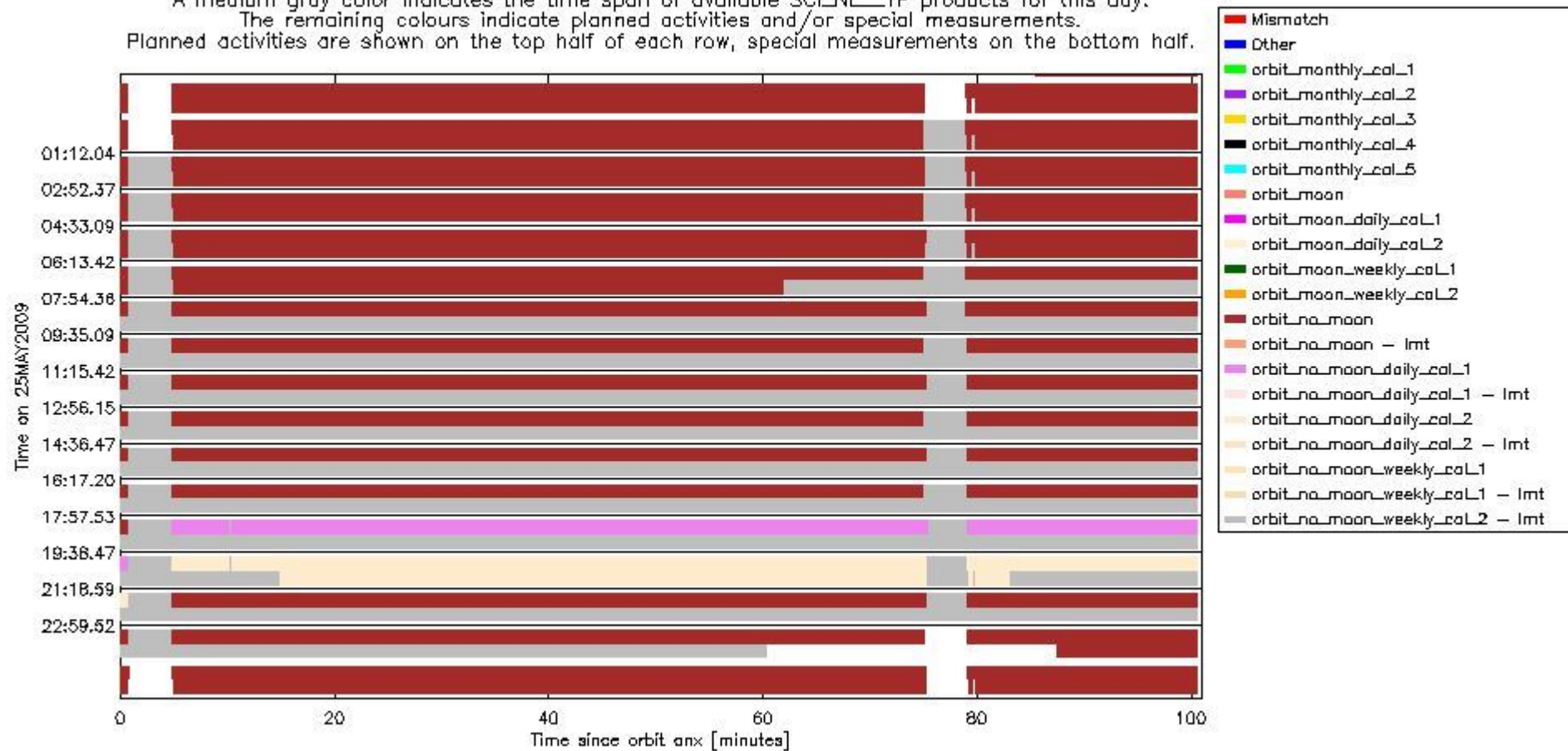


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090525\_5.PNG

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 25MAY2009.  
 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\_20090525\_6.PNG

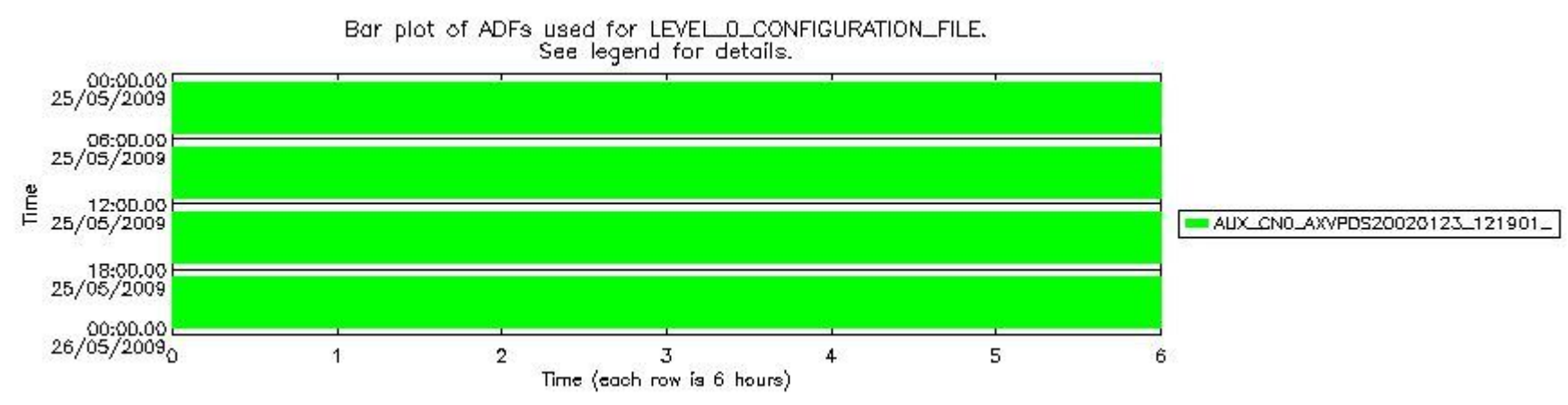
## 0.4 ADF monitoring

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

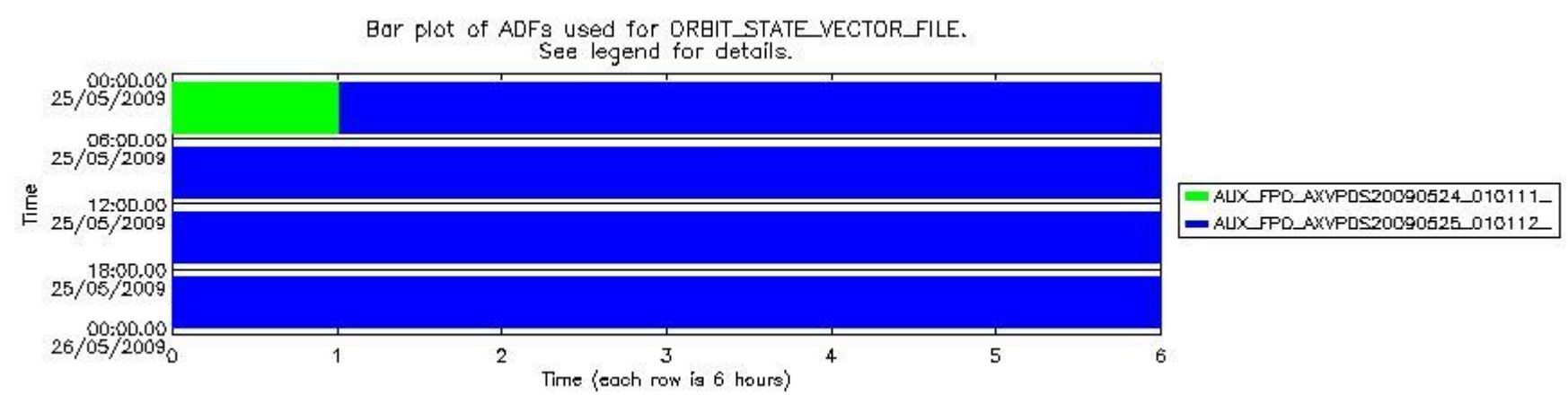
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

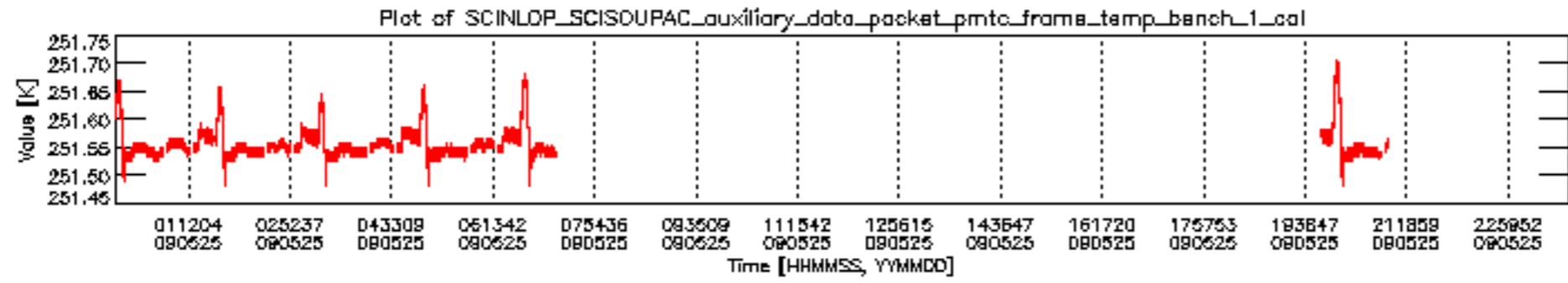
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20090524_010111_20090523_190116_20090602_202731</b>
2	<b>AUX_FPO_AXVPDS20090525_010112_20090524_182939_20090603_213630</b>



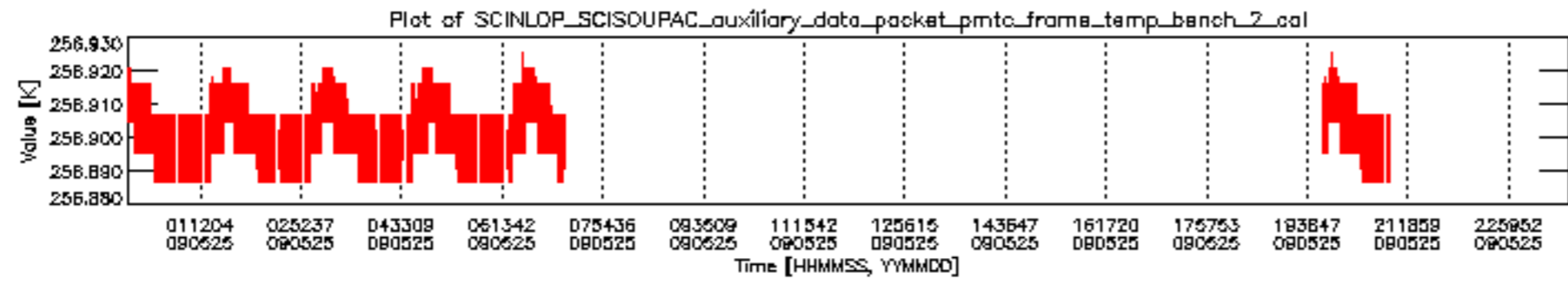
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090525\_7.PNG

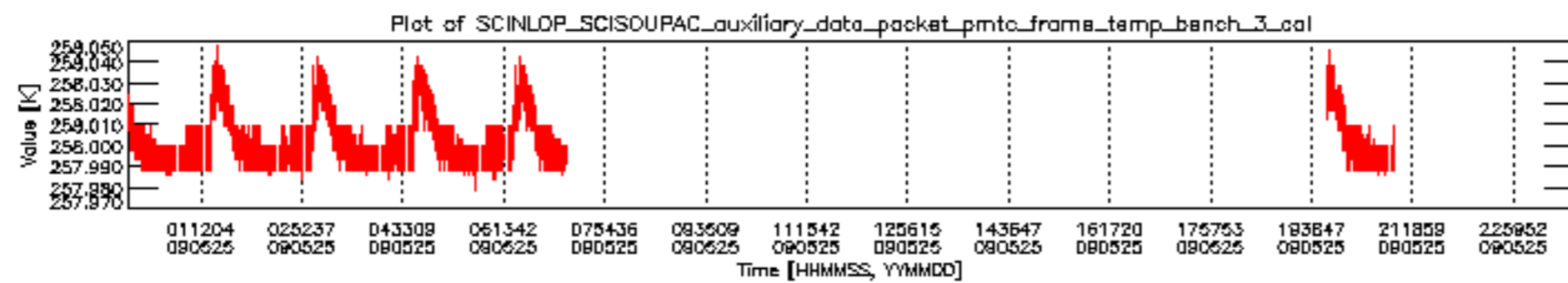


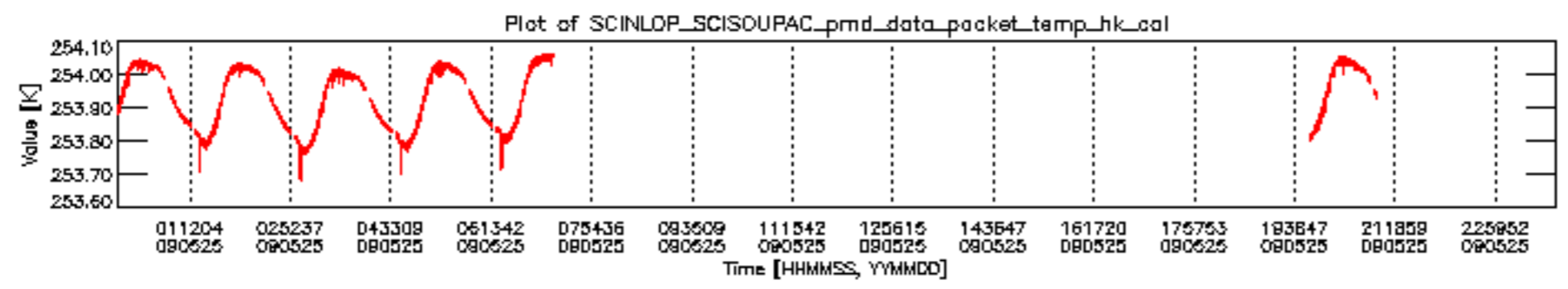
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090525\_8.PNG

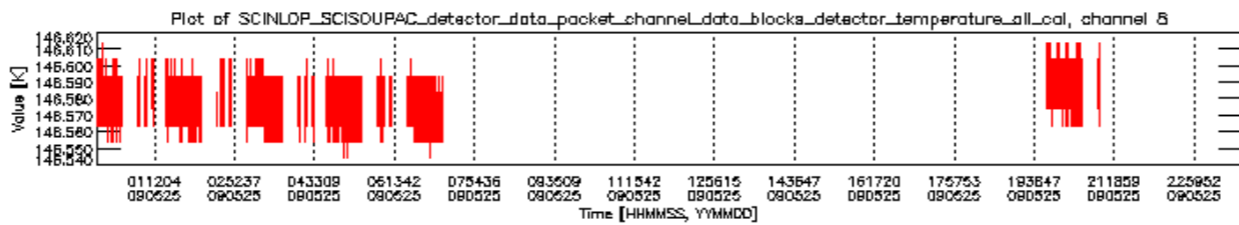
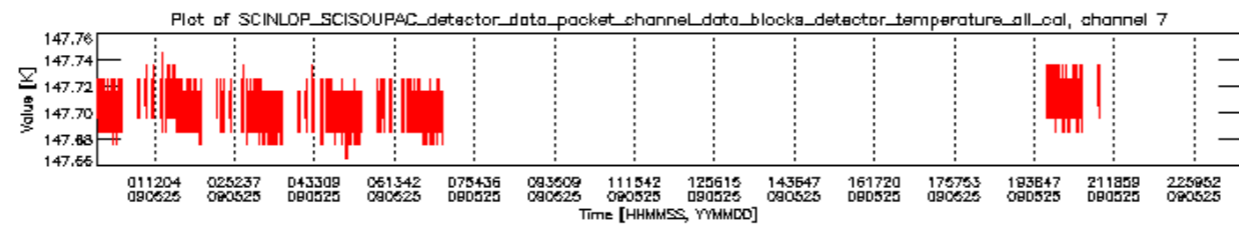
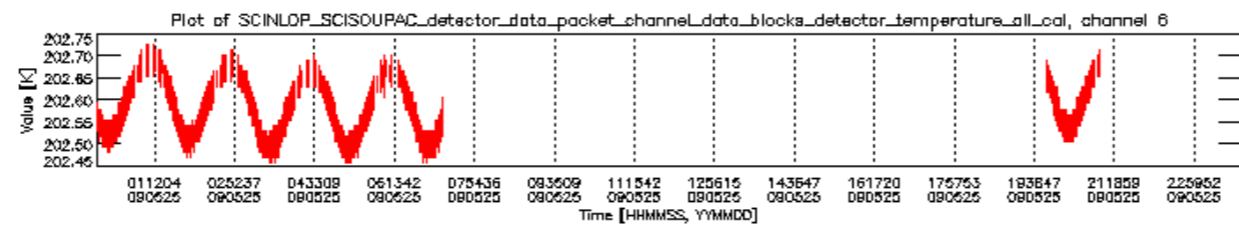
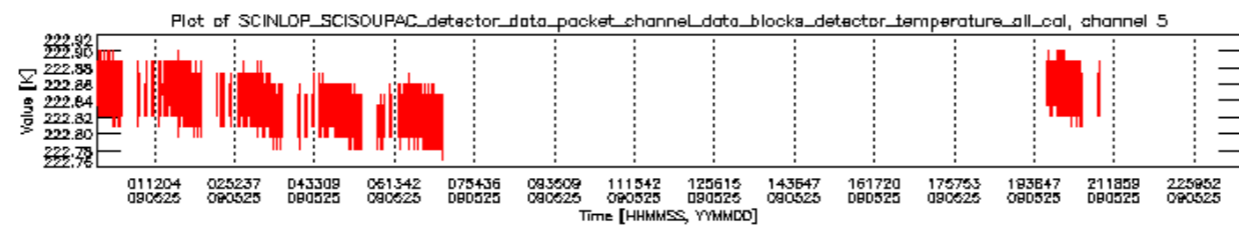
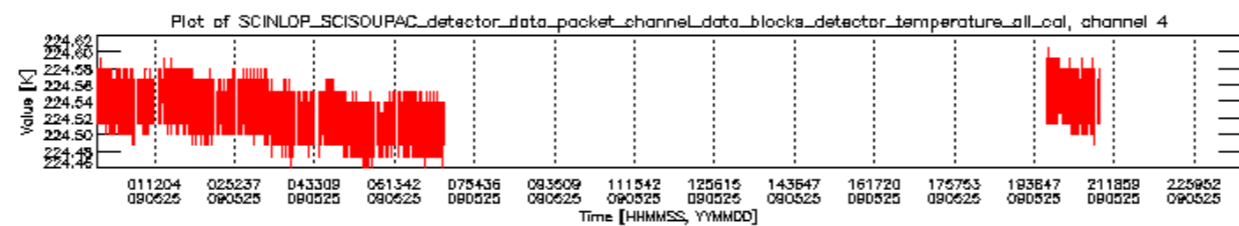
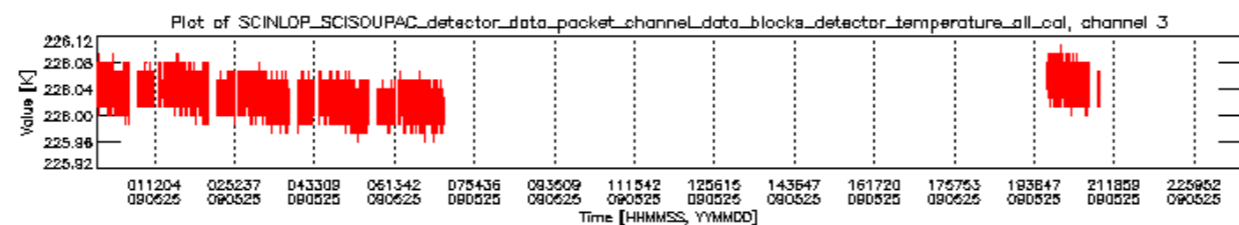
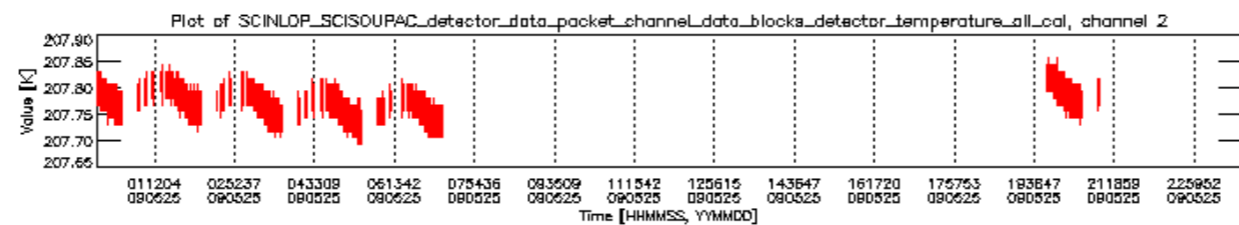
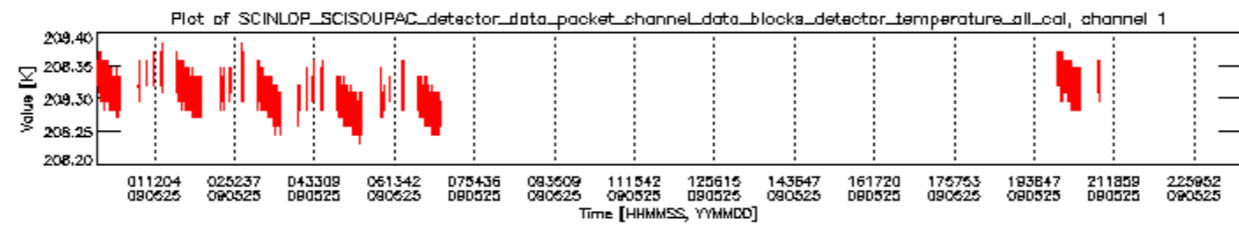


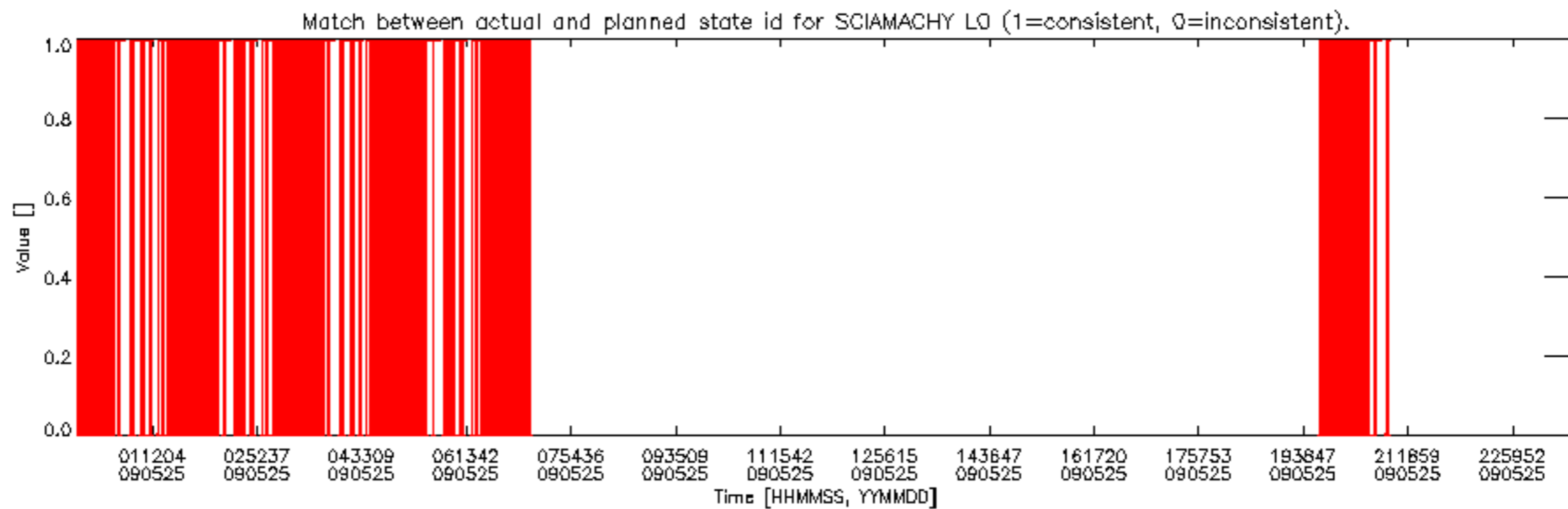
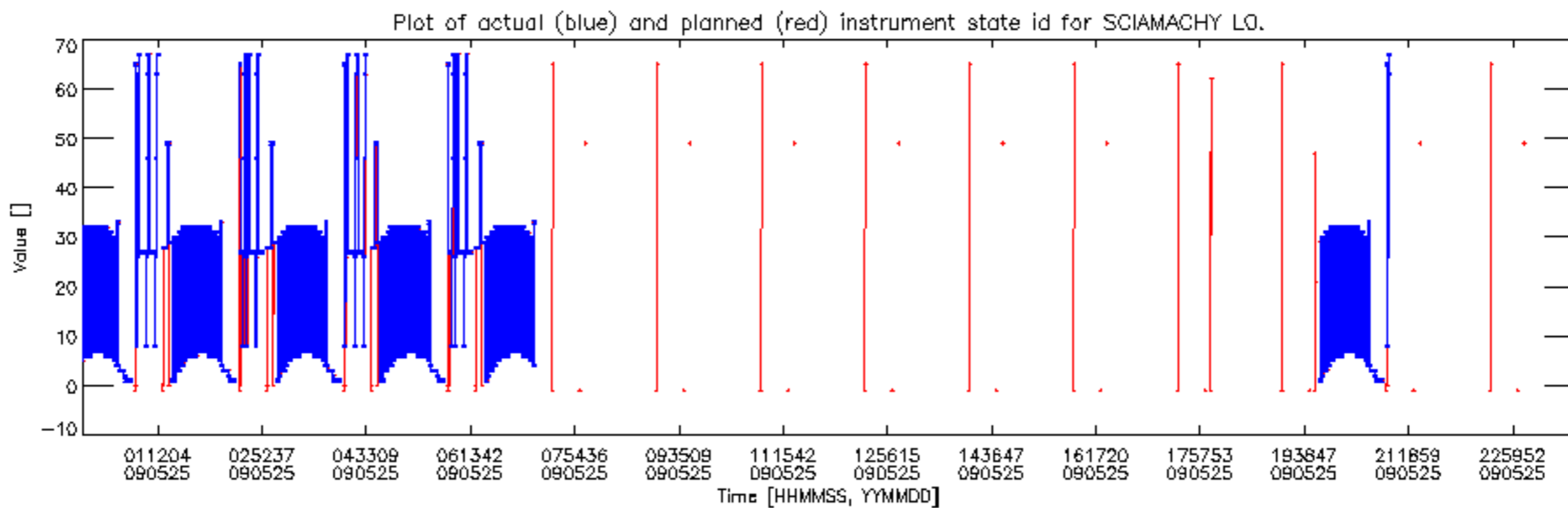














Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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