

## 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	28MAY2009 04:08:57
Data source version	KSPT_L0/4303-N
Processing scope for products	24MAY2009 00:00:00 to 25MAY2009 00:00:00
Start time of first product within scope	23MAY2009 23:51:34
Stop time of last product within scope	25MAY2009 01:01:59
Total number of level 0 products	16
Number of level 0 products with errors	3

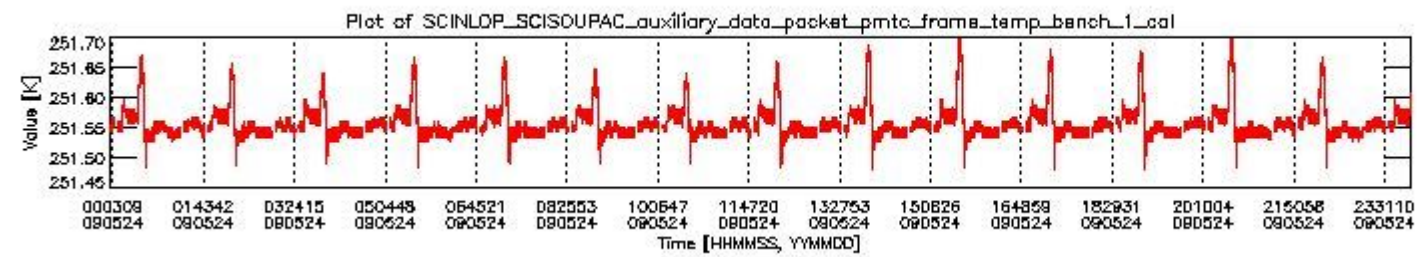
### 0.1.2 Summary per product

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

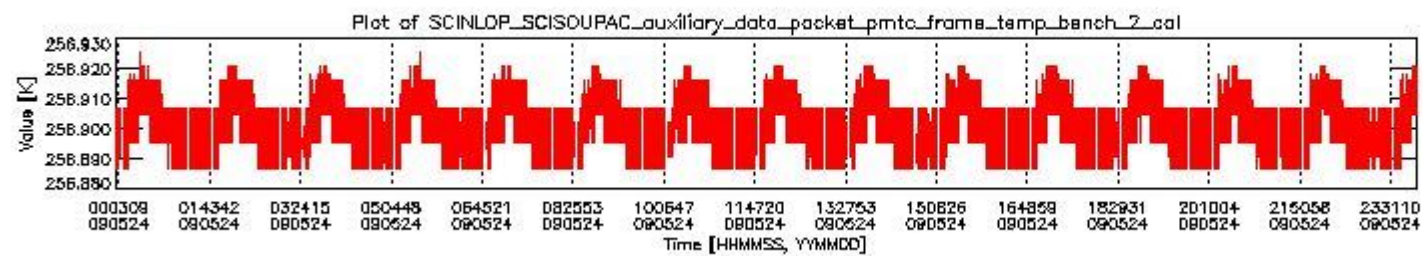
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090523_235134_000059602079_00173_37802_9205.N1	23MAY2009 23:51:34	24MAY2009 01:30:54	0	0	0	0	0
1	SCI_NL__OPNPDE20090524_013010_000047082079_00174_37803_9206.N1	24MAY2009 01:30:10	24MAY2009 02:48:38	0	0	0	0	0
2	SCI_NL__OPNPDE20090524_024729_000058302079_00175_37804_9207.N1	24MAY2009 02:47:29	24MAY2009 04:24:40	0	0	0	0	0
3	SCI_NL__OPNPDE20090524_042440_000060492079_00176_37805_9208.N1	24MAY2009 04:24:40	24MAY2009 06:05:28	0	0	0	0	0
4	SCI_NL__OPNPDK20090524_060528_000041572079_00177_37806_1620.N1	24MAY2009 06:05:28	24MAY2009 07:14:45	0	0	0	0	0
5	SCI_NL__OPNPDK20090524_071349_000061042079_00178_37807_1621.N1	24MAY2009 07:13:49	24MAY2009 08:55:33	0	0	0	0	0
6	SCI_NL__OPNPDK20090524_085425_000060362079_00179_37808_1622.N1	24MAY2009 08:54:25	24MAY2009 10:35:00	0	0	0	0	0
7	SCI_NL__OPNPDK20090524_103500_000059802079_00180_37809_1623.N1	24MAY2009 10:35:00	24MAY2009 12:14:40	1	1	0	0	0
8	SCI_NL__OPNPDK20090524_121440_000058992079_00181_37810_1624.N1	24MAY2009 12:14:40	24MAY2009 13:52:59	0	0	0	0	0
9	SCI_NL__OPNPDK20090524_135203_000059112079_00182_37811_1625.N1	24MAY2009 13:52:03	24MAY2009 15:30:34	1	1	0	0	0
10	SCI_NL__OPNPDK20090524_153034_000058852079_00183_37812_1626.N1	24MAY2009 15:30:34	24MAY2009 17:08:39	1	1	0	0	0
11	SCI_NL__OPNPDK20090524_170743_000060092079_00184_37813_1627.N1	24MAY2009 17:07:43	24MAY2009 18:47:52	0	0	0	0	0
12	SCI_NL__OPNPDK20090524_184547_000060212079_00185_37814_1628.N1	24MAY2009 18:45:47	24MAY2009 20:26:08	0	0	0	0	0
13	SCI_NL__OPNPDE20090524_202459_000043392079_00186_37815_9209.N1	24MAY2009 20:24:59	24MAY2009 21:37:18	0	0	0	0	0
14	SCI_NL__OPNPDE20090524_213550_000061602079_00186_37815_9210.N1	24MAY2009 21:35:50	24MAY2009 23:18:30	0	0	0	0	0
15	SCI_NL__OPNPDE20090524_231830_000062092079_00187_37816_9211.N1	24MAY2009 23:18:30	25MAY2009 01:01:59	0	0	0	0	0

## 0.2 Product Quality Indicators

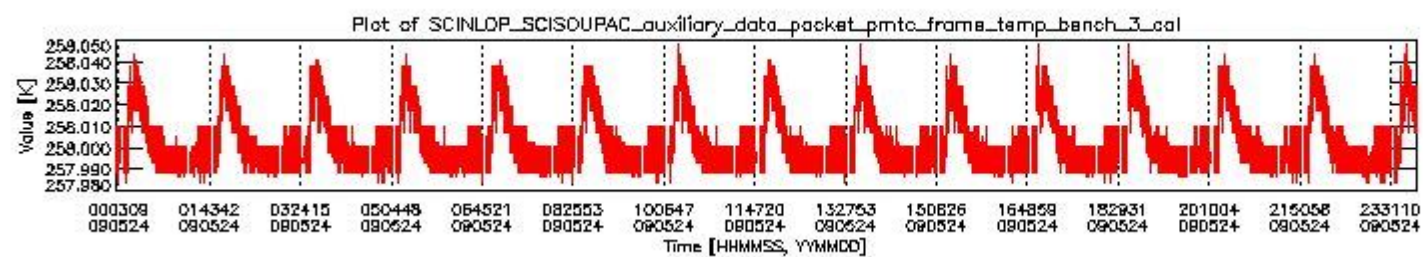
This section shows information about product quality, currently temperatures.



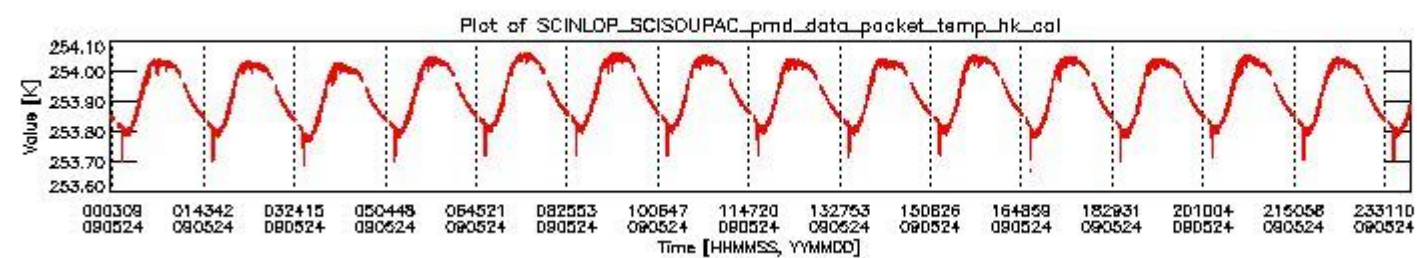
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090524\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090524\_1.PNG

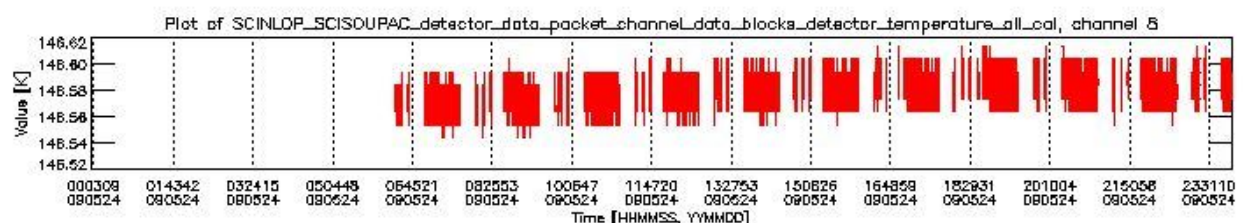
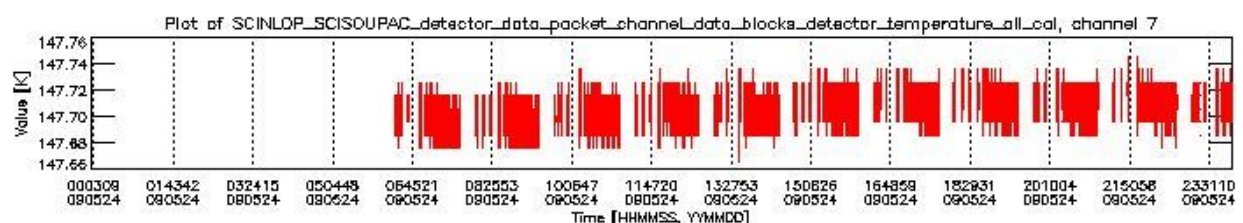
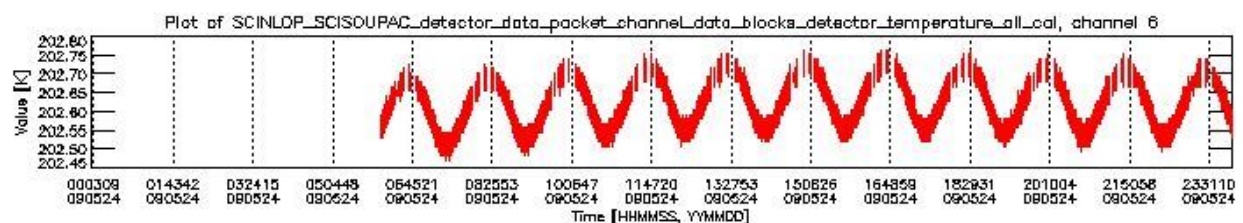
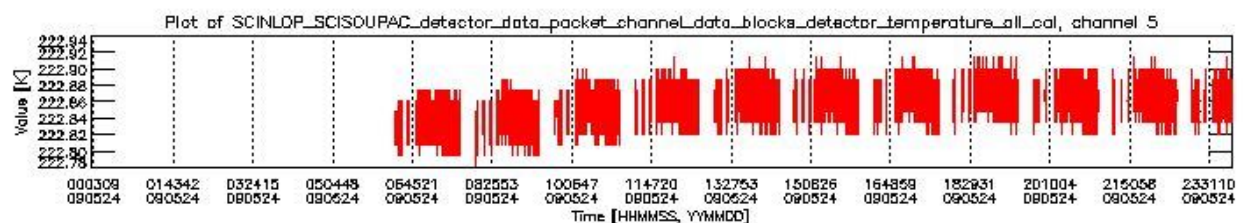
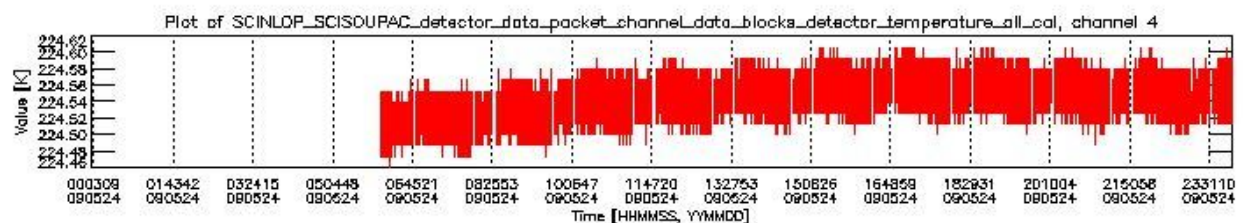
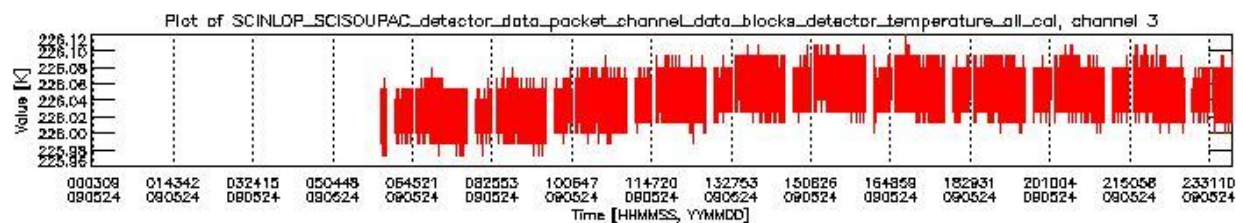
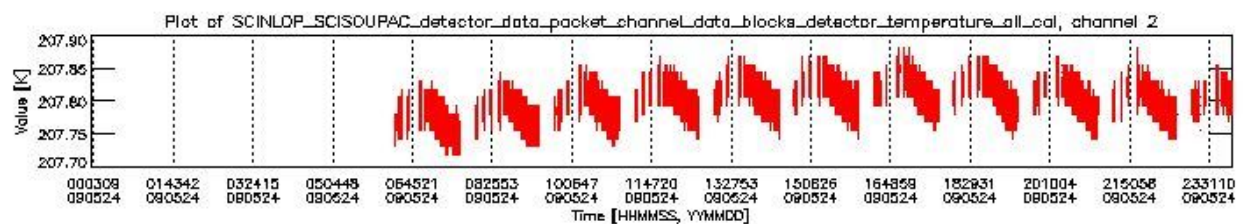
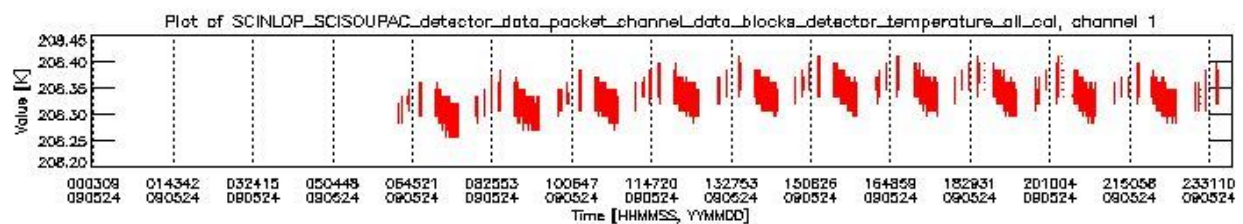


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090524\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090524\_3.PNG



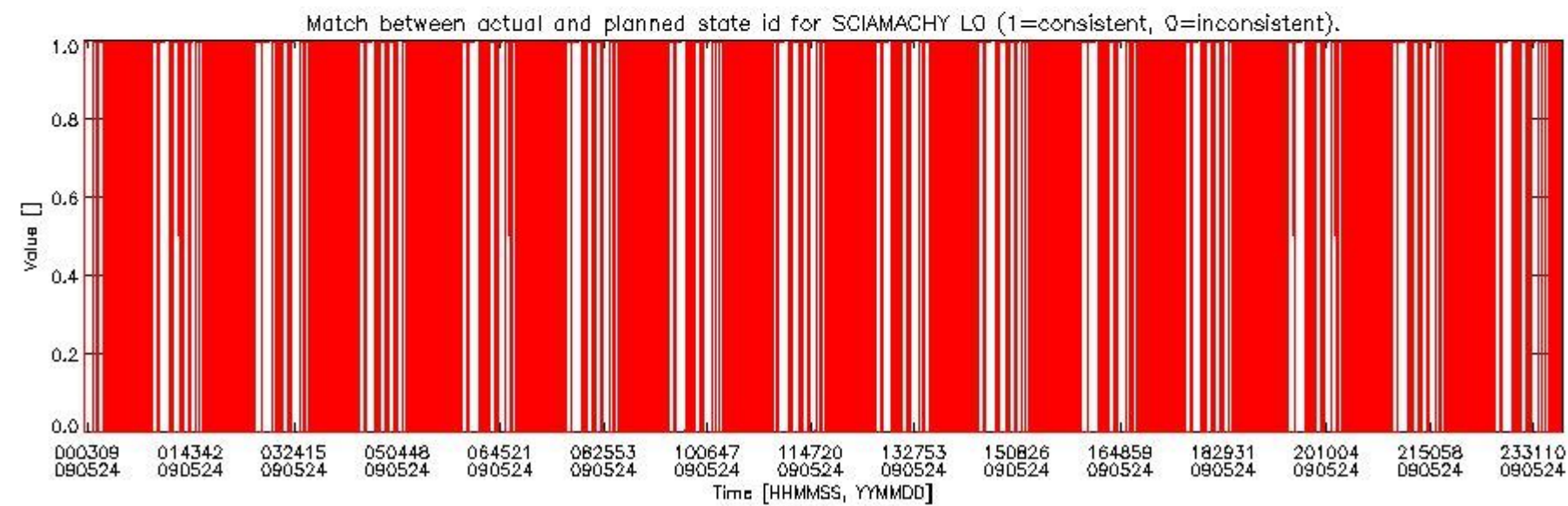
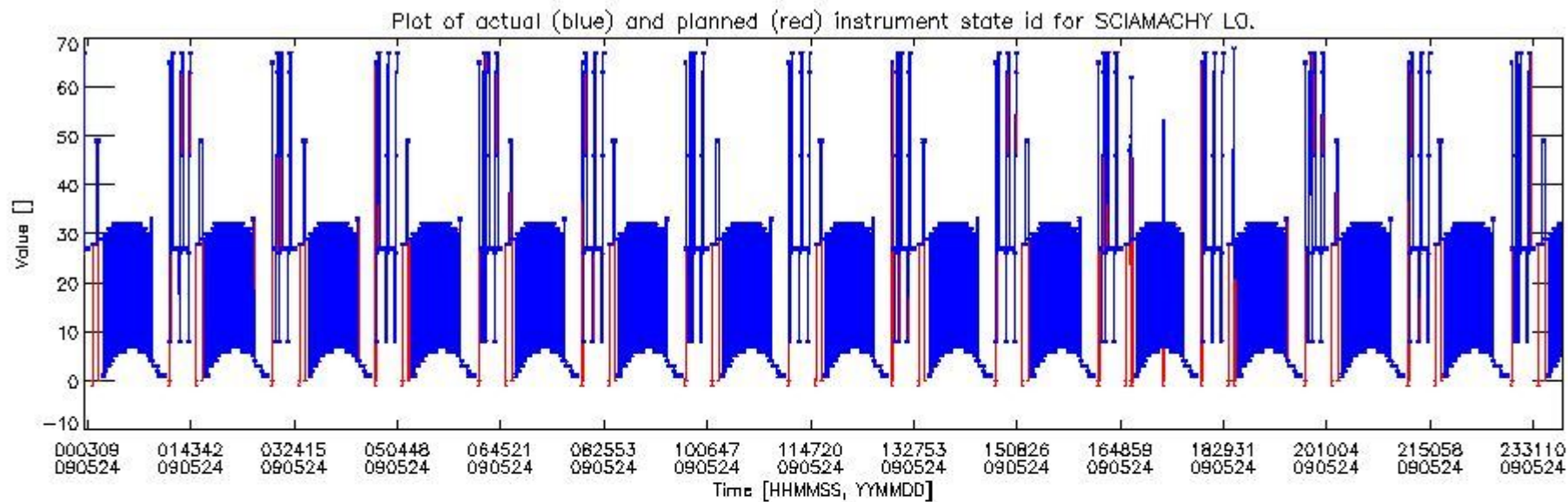


### 0.3 State monitoring

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: **43217**

#	Actual time	Actual value	Planned time	Planned value
0	24MAY2009 00:00:10.547318	27	24MAY2009 00:00:10.547318	67
1	24MAY2009 00:00:11.547312	27	24MAY2009 00:00:11.547312	67
2	24MAY2009 00:00:12.484784	27	24MAY2009 00:00:12.484784	67
3	24MAY2009 00:00:13.234811	27	24MAY2009 00:00:13.234811	67
4	24MAY2009 00:00:14.172323	27	24MAY2009 00:00:14.172323	67
5	24MAY2009 00:00:14.922309	27	24MAY2009 00:00:14.922309	67
6	24MAY2009 00:00:15.547290	27	24MAY2009 00:00:15.547290	67
7	24MAY2009 00:00:15.859821	27	24MAY2009 00:00:15.859821	67
8	24MAY2009 00:00:16.609807	27	24MAY2009 00:00:16.609807	67
9	24MAY2009 00:00:17.547320	27	24MAY2009 00:00:17.547320	67
10	24MAY2009 00:00:18.297306	27	24MAY2009 00:00:18.297306	67
11	24MAY2009 00:00:19.234818	27	24MAY2009 00:00:19.234818	67
12	24MAY2009 00:00:19.984804	27	24MAY2009 00:00:19.984804	67
13	24MAY2009 00:08:05.312998	28	24MAY2009 00:08:05.312998	0
14	24MAY2009 00:08:05.937980	28	24MAY2009 00:08:05.937980	0
15	24MAY2009 00:08:06.312993	28	24MAY2009 00:08:06.312993	0
16	24MAY2009 00:08:06.688006	28	24MAY2009 00:08:06.688006	0
17	24MAY2009 00:08:07.250505	28	24MAY2009 00:08:07.250505	0
18	24MAY2009 00:08:07.625478	28	24MAY2009 00:08:07.625478	0
19	24MAY2009 00:08:08.000491	28	24MAY2009 00:08:08.000491	0
	...	...	...	...



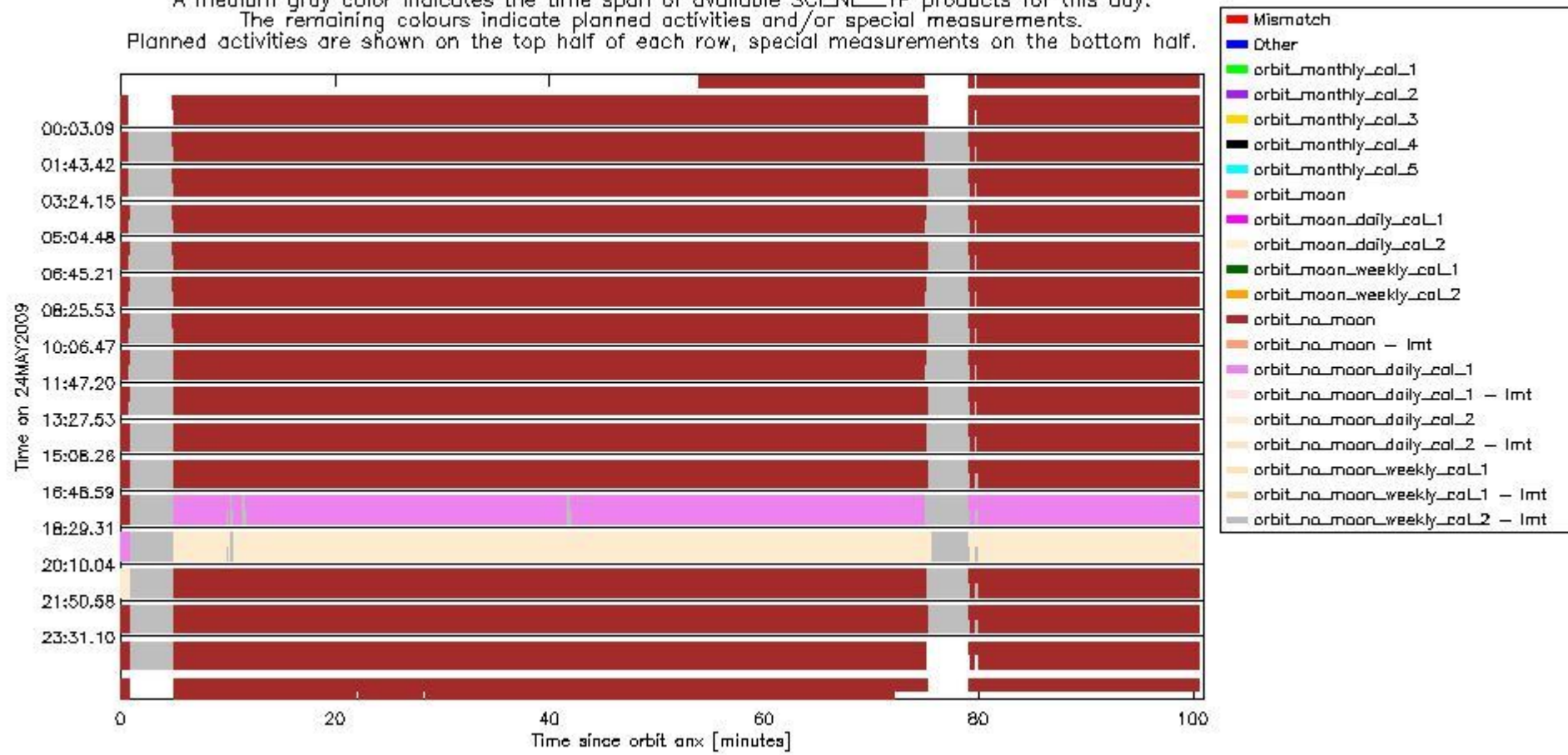
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090524\_5.PNG

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 24MAY2009.  
 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\_20090524\_6.PNG

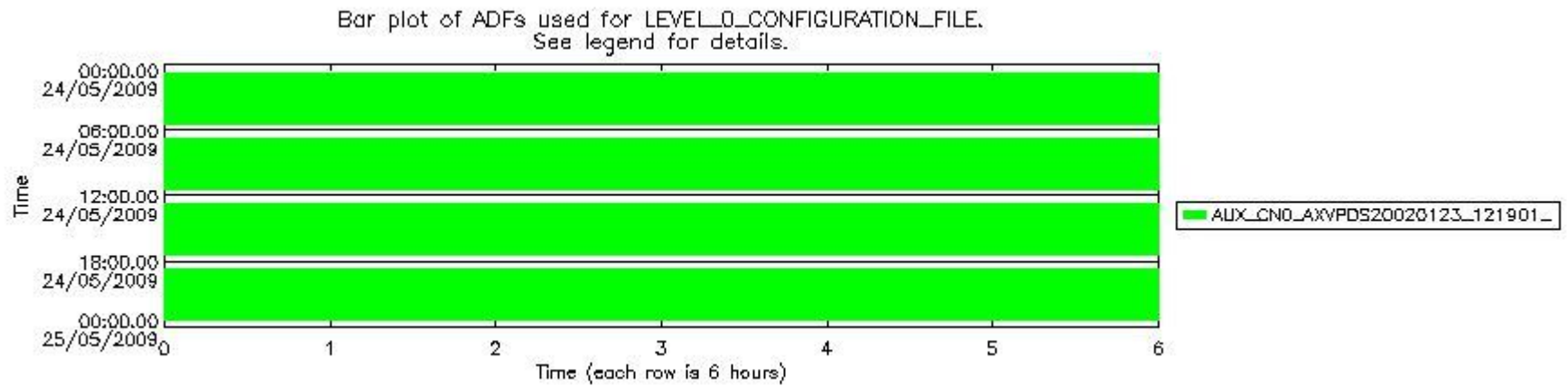
## 0.4 ADF monitoring

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

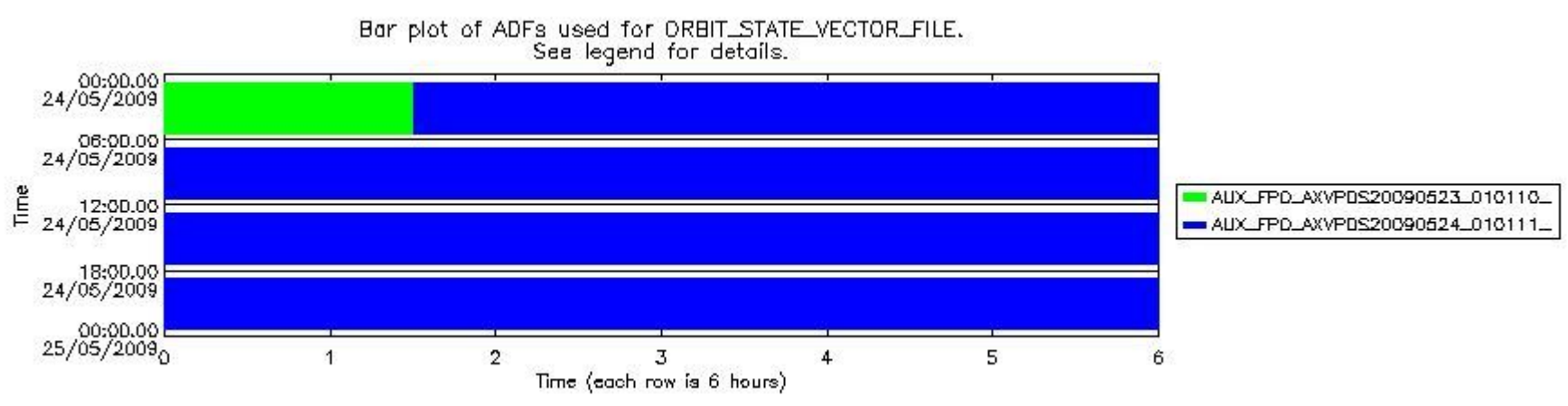
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

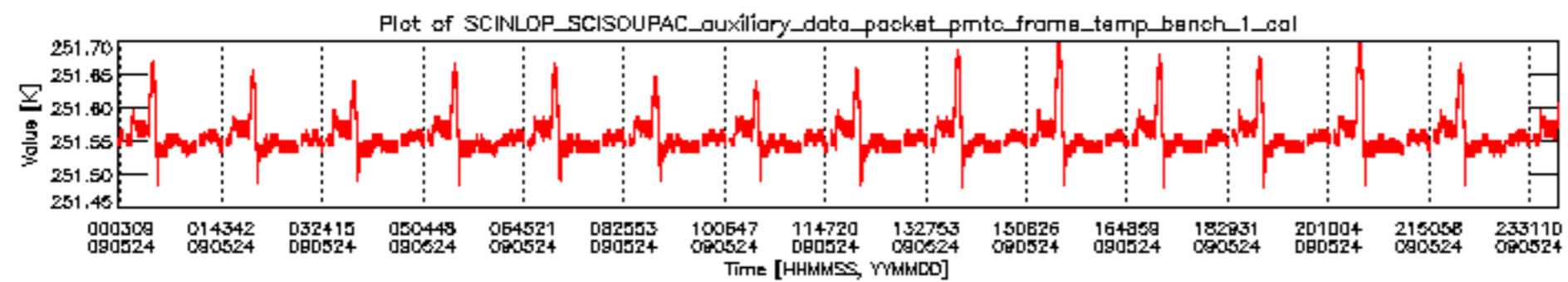
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20090523_010110_20090522_193253_20090601_205908</b>
2	<b>AUX_FPO_AXVPDS20090524_010111_20090523_190116_20090602_202731</b>



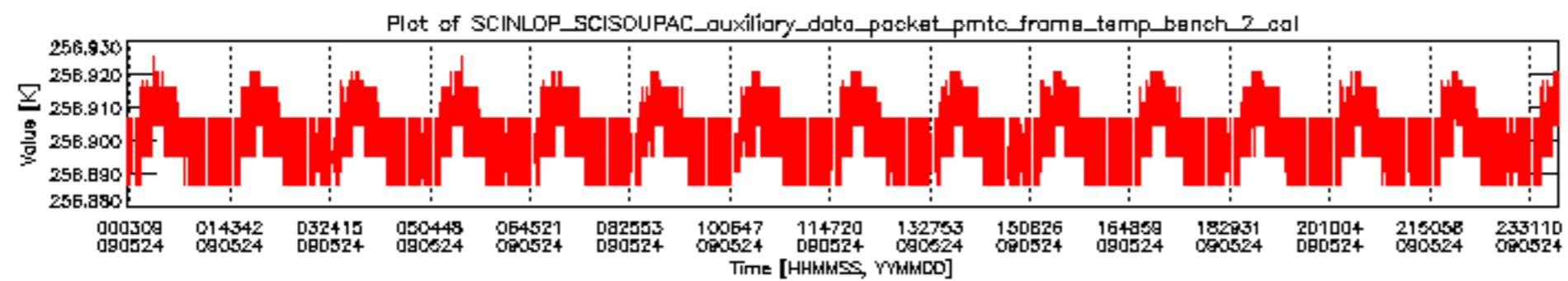
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090524\_7.PNG

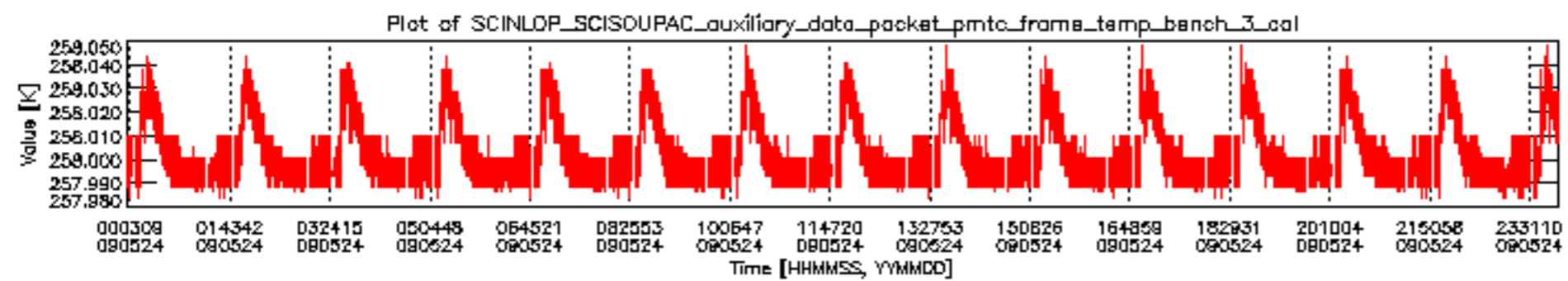


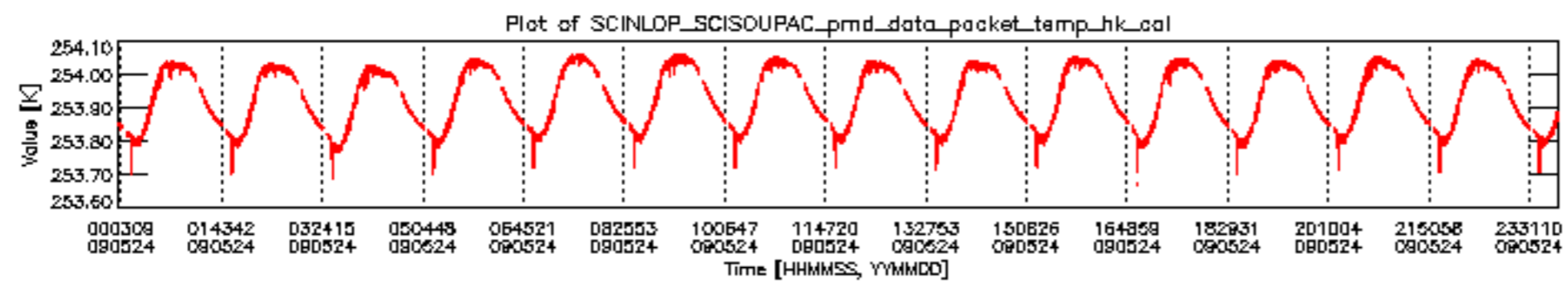
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090524\_8.PNG

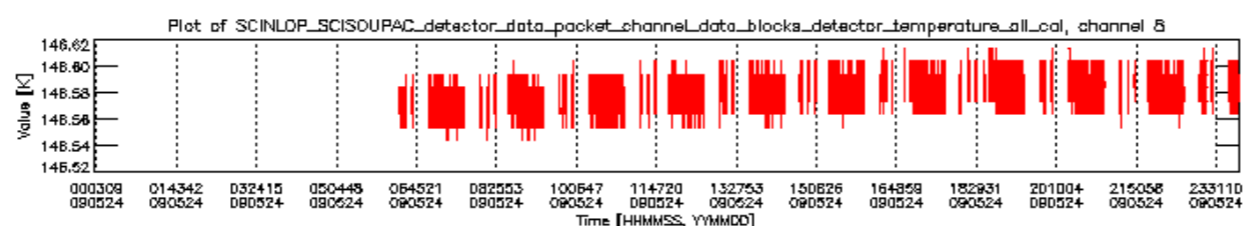
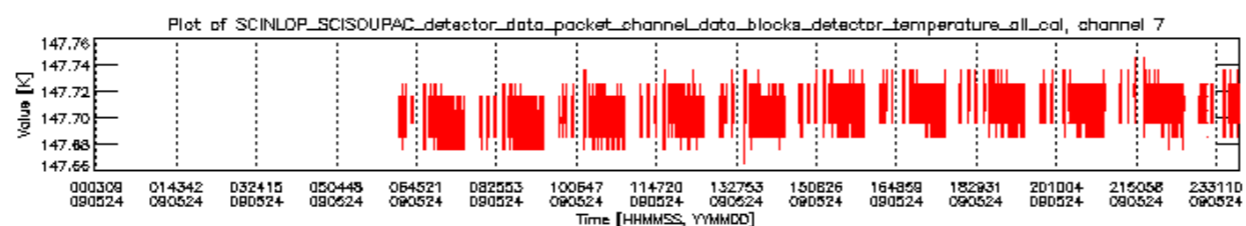
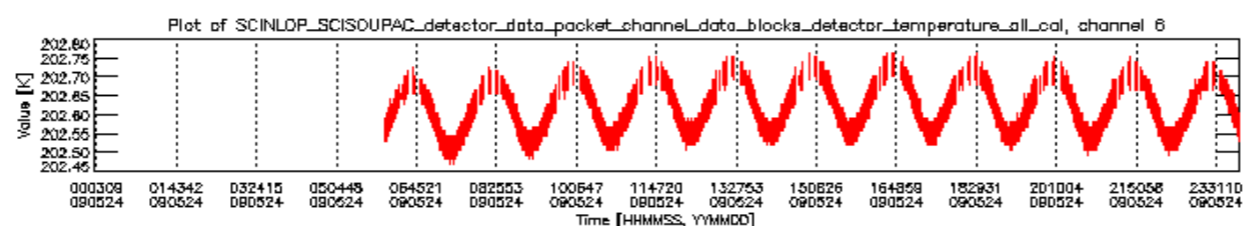
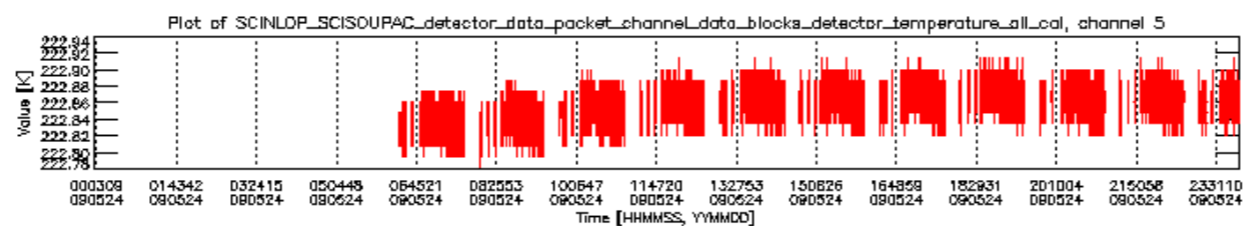
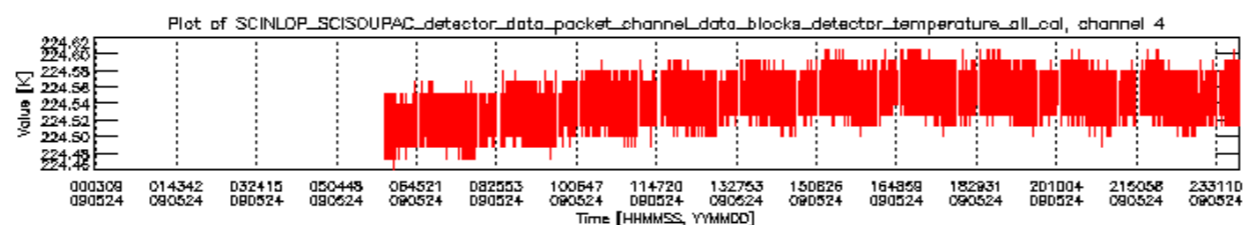
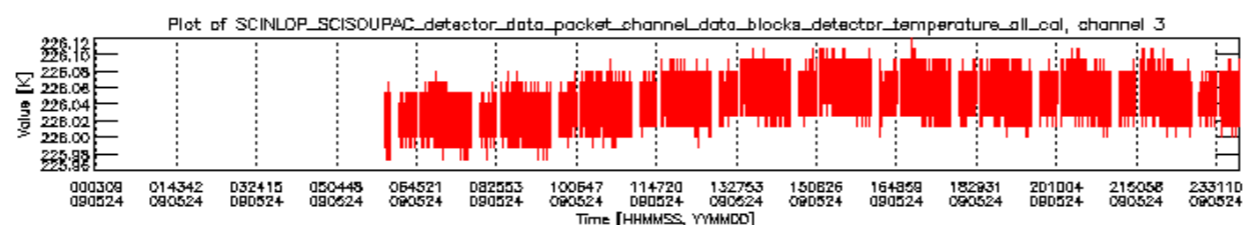
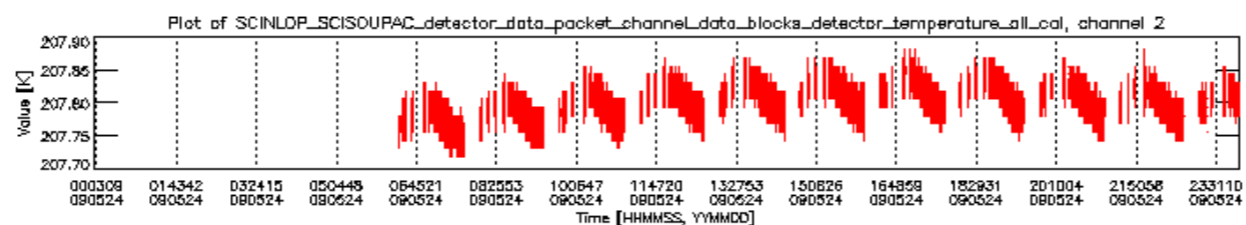
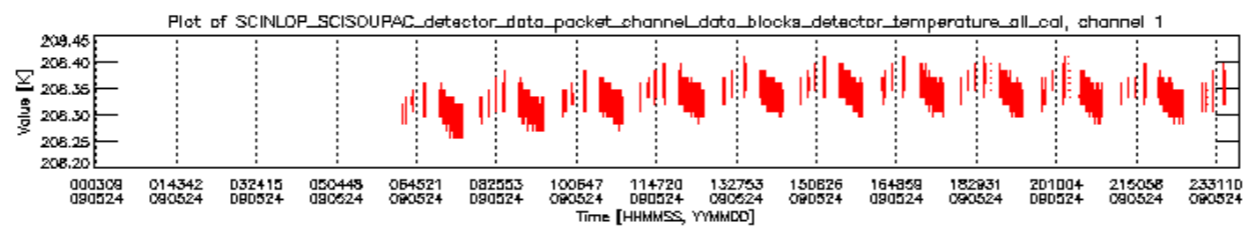




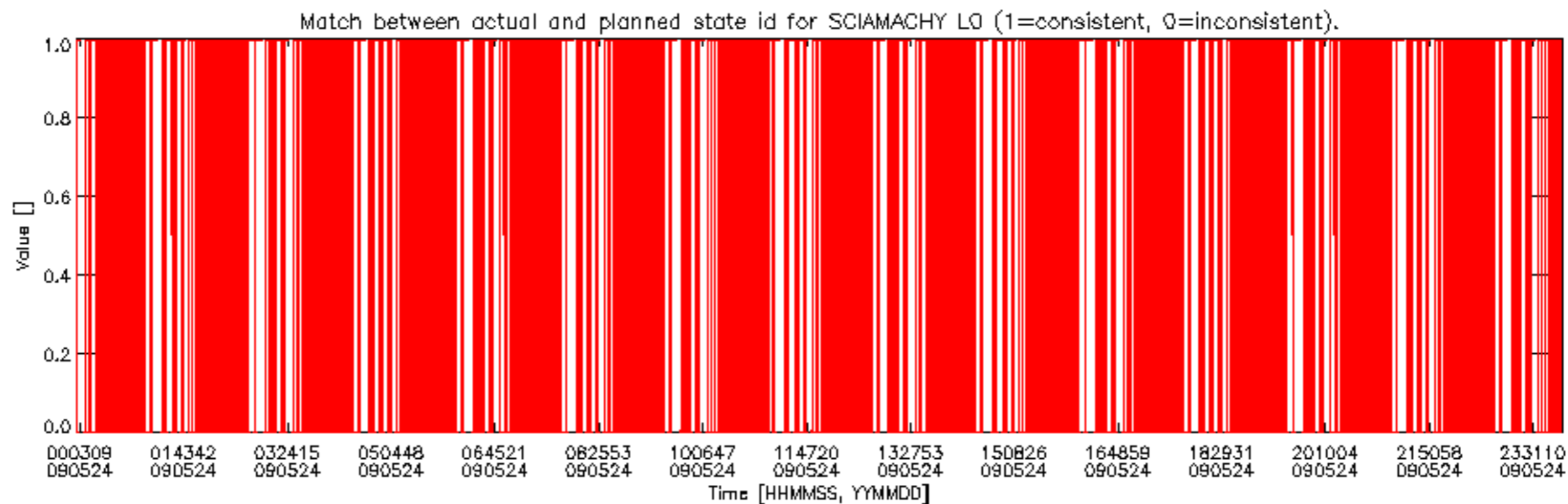
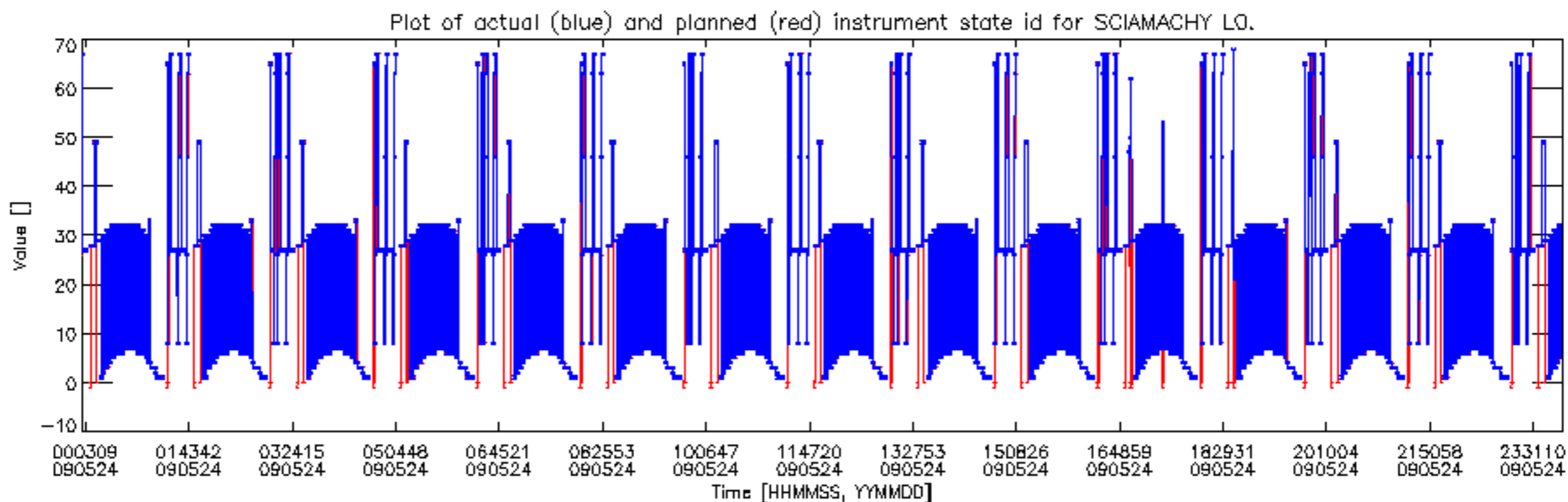












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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