

## 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	20MAY2009 13:40:52
Data source version	KSPT_L0/4303-N
Processing scope for products	16MAY2009 00:00:00 to 17MAY2009 00:00:00
Start time of first product within scope	15MAY2009 23:02:42
Stop time of last product within scope	17MAY2009 00:12:08
Total number of level 0 products	16
Number of level 0 products with errors	3

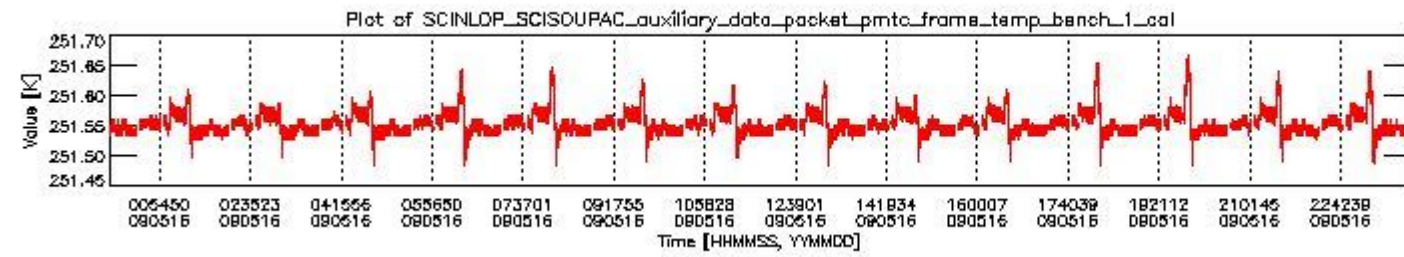
### 0.1.2 Summary per product

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

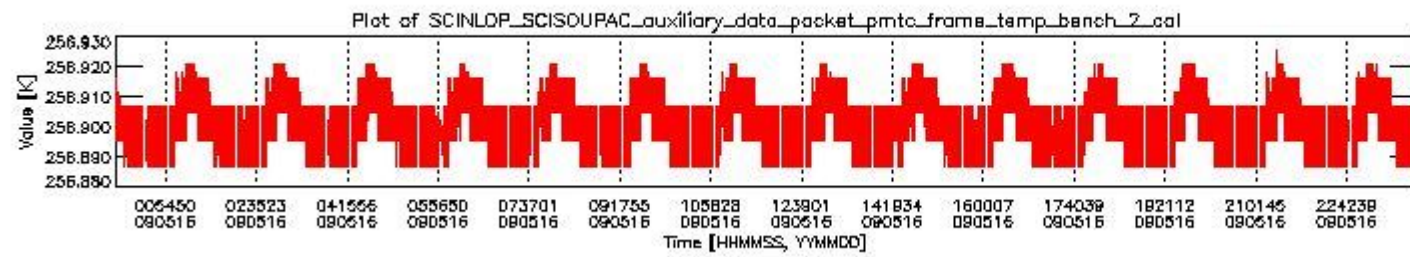
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090515_230242_000060672079_00058_37687_9151.N1	15MAY2009 23:02:42	16MAY2009 00:43:49	0	0	0	0	0
1	SCI_NL__OPNPDE20090516_004226_000058232079_00059_37688_9152.N1	16MAY2009 00:42:26	16MAY2009 02:19:29	0	0	0	0	0
2	SCI_NL__OPNPDE20090516_021845_000045942079_00060_37689_9153.N1	16MAY2009 02:18:45	16MAY2009 03:35:19	0	0	0	0	0
3	SCI_NL__OPNPDE20090516_033423_000061482079_00061_37690_9154.N1	16MAY2009 03:34:23	16MAY2009 05:16:51	0	0	0	0	0
4	SCI_NL__OPNPDE20090516_051651_000060482079_00062_37691_9155.N1	16MAY2009 05:16:51	16MAY2009 06:57:39	0	0	0	0	0
5	SCI_NL__OPNPDK20090516_065739_000040322079_00063_37692_1549.N1	16MAY2009 06:57:39	16MAY2009 08:04:51	0	0	0	0	0
6	SCI_NL__OPNPDK20090516_080355_000061602079_00064_37693_1550.N1	16MAY2009 08:03:55	16MAY2009 09:46:35	0	0	0	0	0
7	SCI_NL__OPNPDK20090516_094540_000060232079_00065_37694_1551.N1	16MAY2009 09:45:40	16MAY2009 11:26:02	0	0	0	0	0
8	SCI_NL__OPNPDK20090516_112602_000059802079_00066_37695_1552.N1	16MAY2009 11:26:02	16MAY2009 13:05:42	1	1	0	0	0
9	SCI_NL__OPNPDK20090516_130542_000059112079_00067_37696_1553.N1	16MAY2009 13:05:42	16MAY2009 14:44:13	0	0	0	0	0
10	SCI_NL__OPNPDK20090516_144305_000059242079_00068_37697_1554.N1	16MAY2009 14:43:05	16MAY2009 16:21:49	0	0	0	0	0
11	SCI_NL__OPNPDK20090516_162040_000058862079_00069_37698_1555.N1	16MAY2009 16:20:40	16MAY2009 17:58:46	1	1	0	0	0
12	SCI_NL__OPNPDK20090516_175750_000060082079_00070_37699_1556.N1	16MAY2009 17:57:50	16MAY2009 19:37:58	1	0	1	0	0
13	SCI_NL__OPNPDE20090516_193703_000041092079_00071_37700_9156.N1	16MAY2009 19:37:03	16MAY2009 20:45:32	0	0	0	0	0
14	SCI_NL__OPNPDE20090516_204401_000063762079_00071_37700_9157.N1	16MAY2009 20:44:01	16MAY2009 22:30:17	0	0	0	0	0
15	SCI_NL__OPNPDE20090516_222933_000061552079_00072_37701_9158.N1	16MAY2009 22:29:33	17MAY2009 00:12:08	0	0	0	0	0

## 0.2 Product Quality Indicators

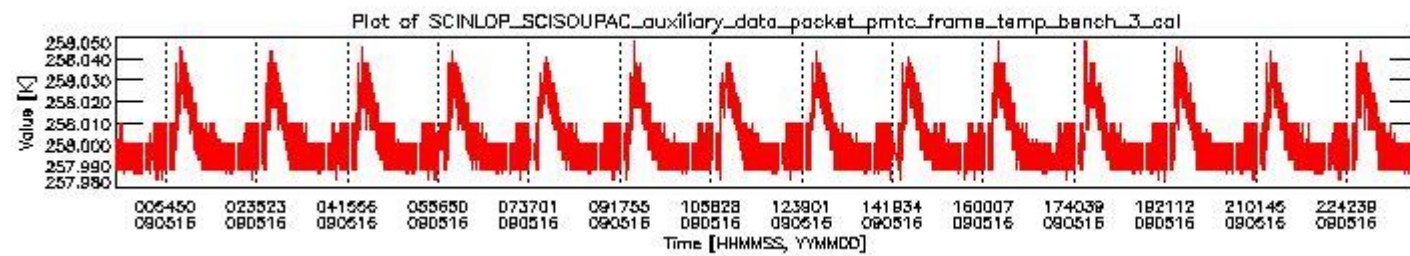
This section shows information about product quality, currently temperatures.



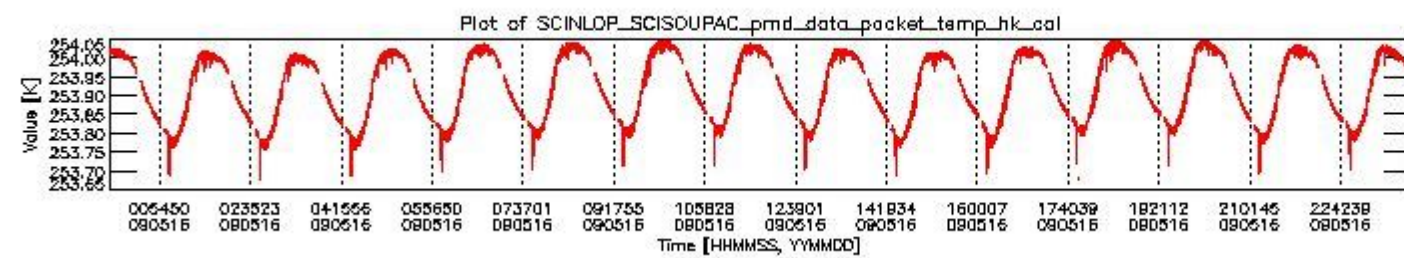
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090516\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090516\_1.PNG

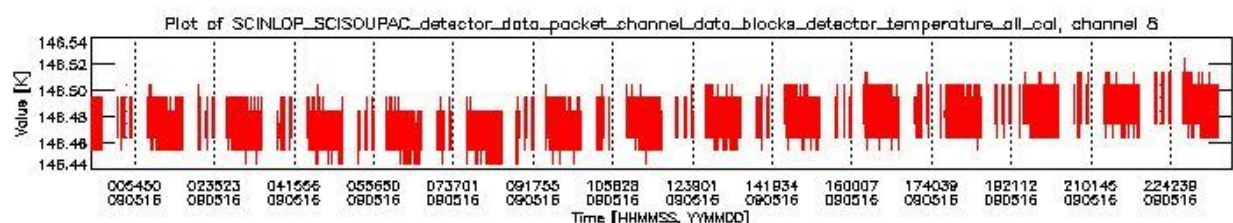
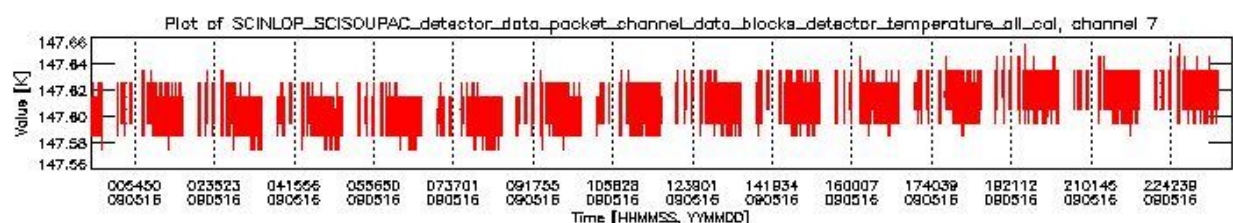
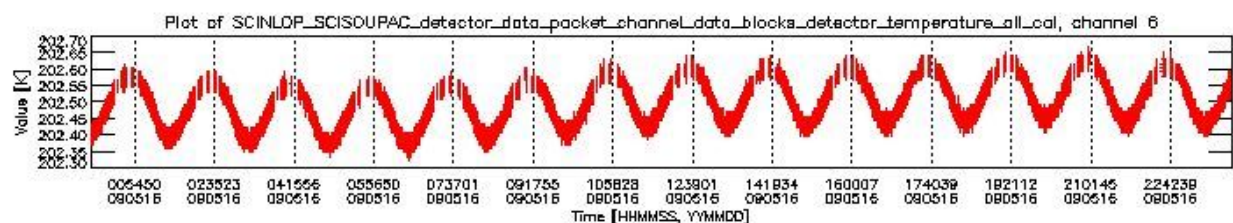
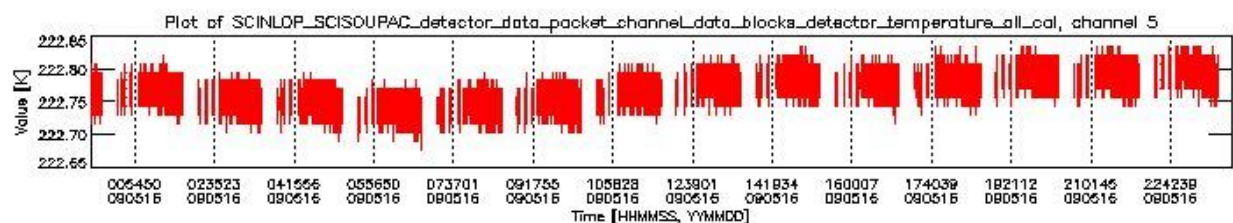
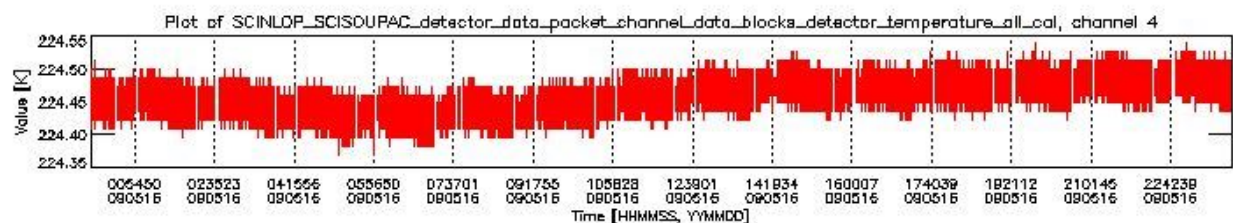
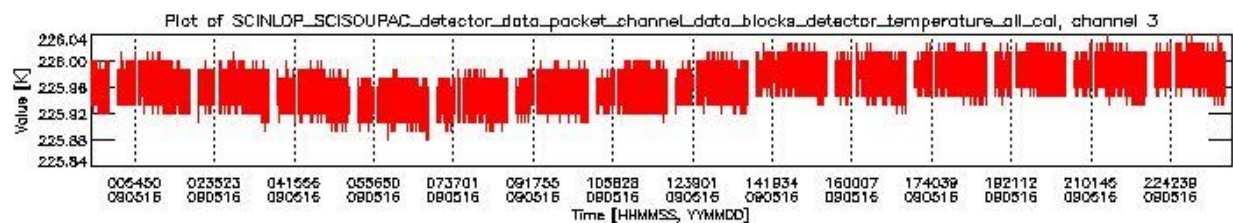
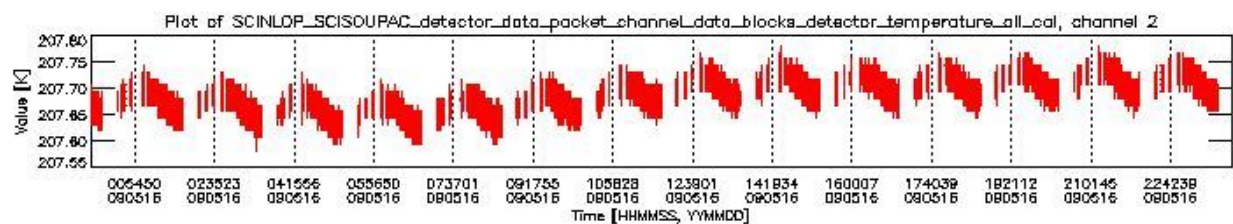
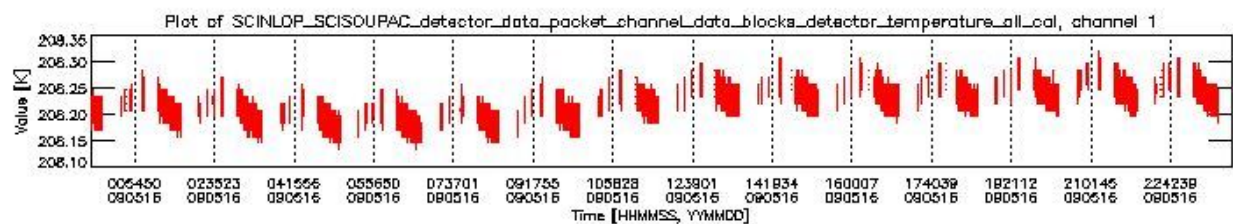


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090516\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090516\_3.PNG



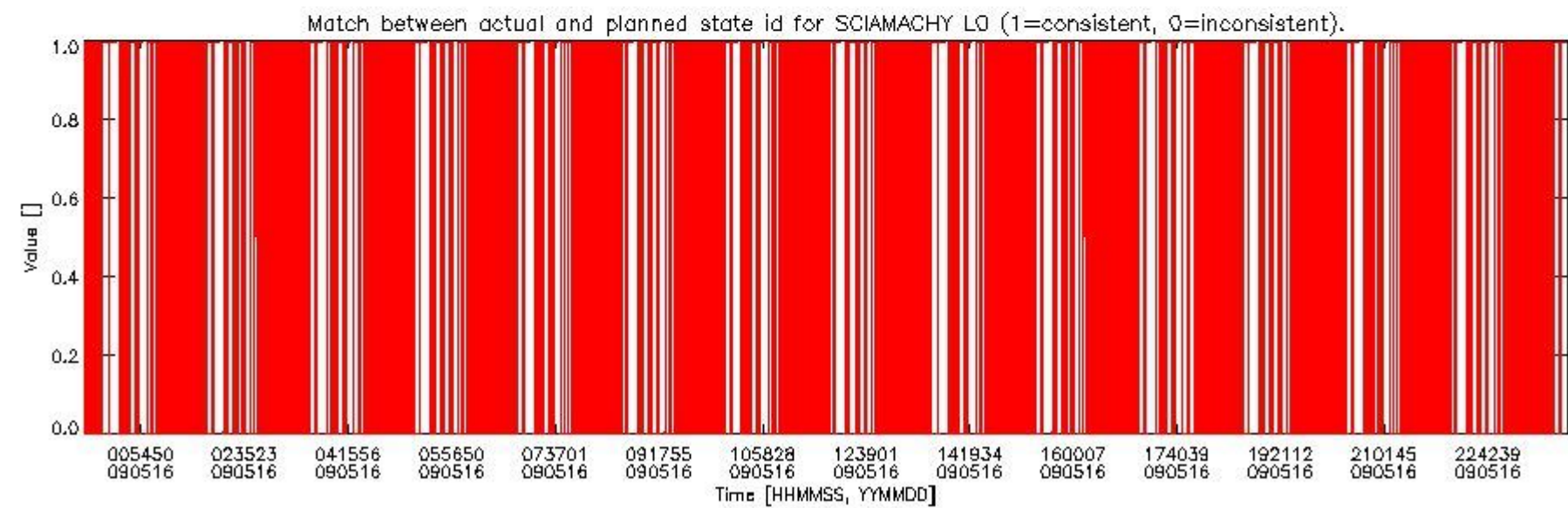
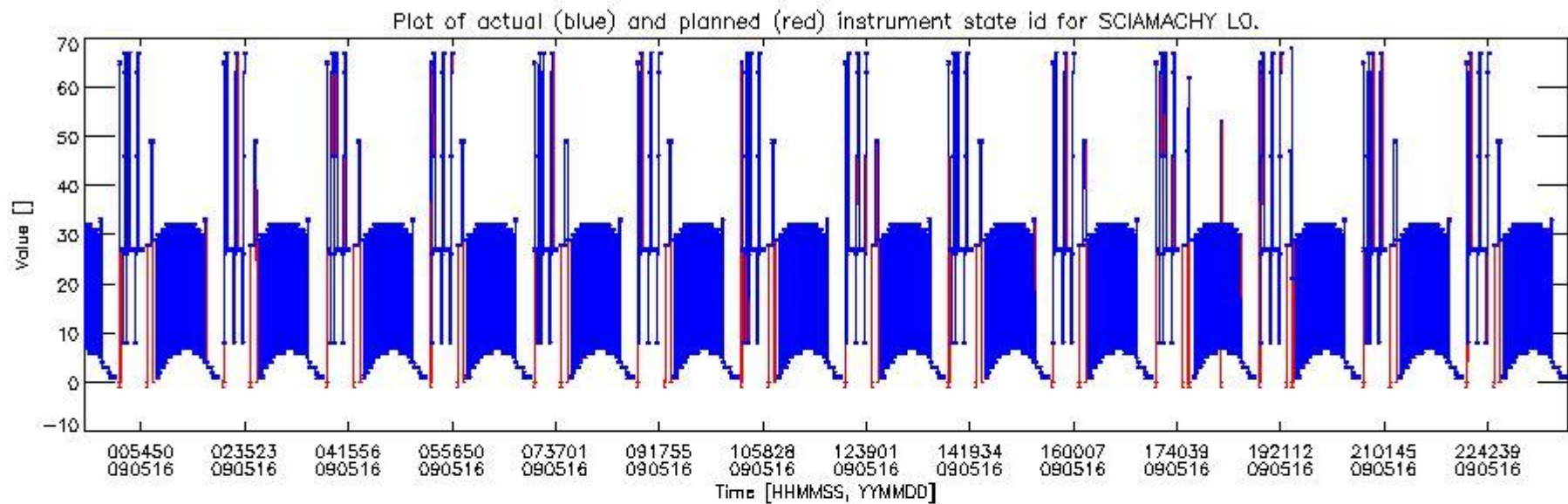


### 0.3 State monitoring

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: **45456**

#	Actual time	Actual value	Planned time	Planned value
0	16MAY2009 00:00:45.826748	32	16MAY2009 00:00:45.826748	7
1	16MAY2009 00:00:46.451730	32	16MAY2009 00:00:46.451730	7
2	16MAY2009 00:00:46.826743	32	16MAY2009 00:00:46.826743	7
3	16MAY2009 00:00:47.201715	32	16MAY2009 00:00:47.201715	7
4	16MAY2009 00:00:47.764215	32	16MAY2009 00:00:47.764215	7
5	16MAY2009 00:00:48.139228	32	16MAY2009 00:00:48.139228	7
6	16MAY2009 00:00:48.514241	32	16MAY2009 00:00:48.514241	7
7	16MAY2009 00:00:48.889254	32	16MAY2009 00:00:48.889254	7
8	16MAY2009 00:00:49.451753	32	16MAY2009 00:00:49.451753	7
9	16MAY2009 00:00:49.826726	32	16MAY2009 00:00:49.826726	7
10	16MAY2009 00:00:50.201739	32	16MAY2009 00:00:50.201739	7
11	16MAY2009 00:00:50.576752	32	16MAY2009 00:00:50.576752	7
12	16MAY2009 00:00:50.826721	32	16MAY2009 00:00:50.826721	7
13	16MAY2009 00:00:51.139252	32	16MAY2009 00:00:51.139252	7
14	16MAY2009 00:00:51.514225	32	16MAY2009 00:00:51.514225	7
15	16MAY2009 00:00:51.889238	32	16MAY2009 00:00:51.889238	7
16	16MAY2009 00:00:52.264251	32	16MAY2009 00:00:52.264251	7
17	16MAY2009 00:00:52.826750	32	16MAY2009 00:00:52.826750	7
18	16MAY2009 00:00:53.201723	32	16MAY2009 00:00:53.201723	7
19	16MAY2009 00:00:53.576736	32	16MAY2009 00:00:53.576736	7
...	...	...	...	...



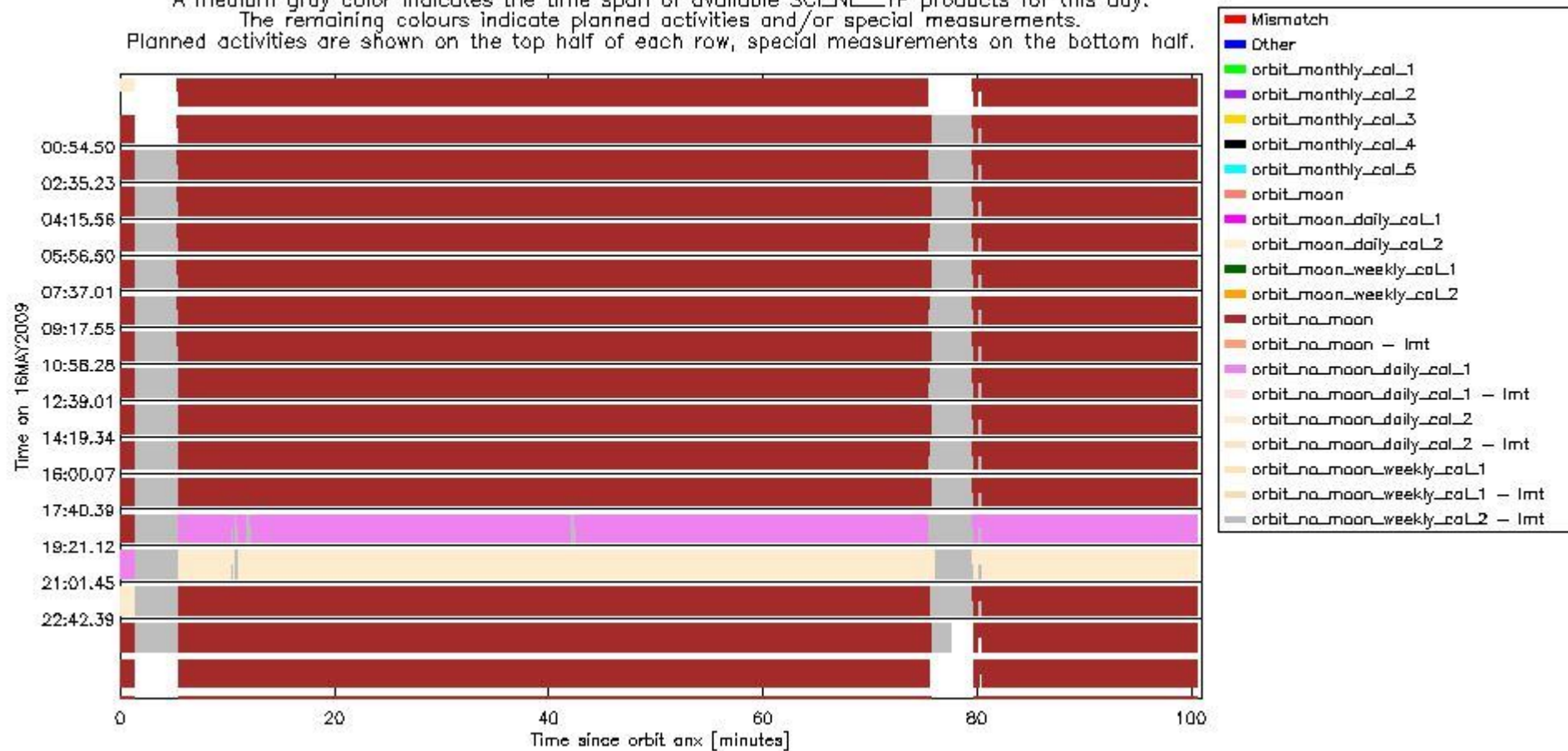
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090516\_5.PNG

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 16MAY2009.  
 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\_20090516\_6.PNG

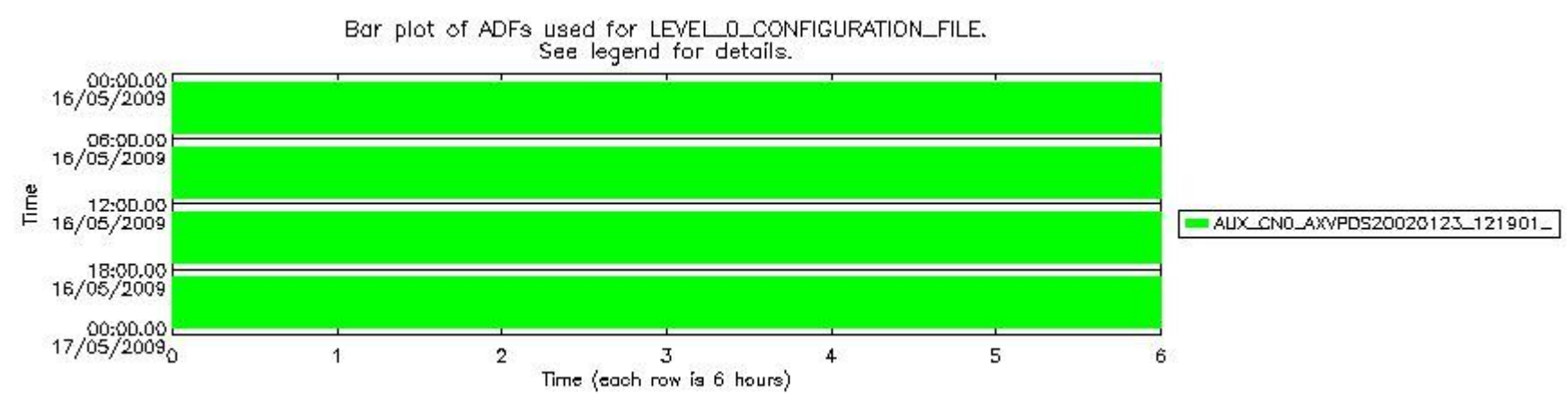
## 0.4 ADF monitoring

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

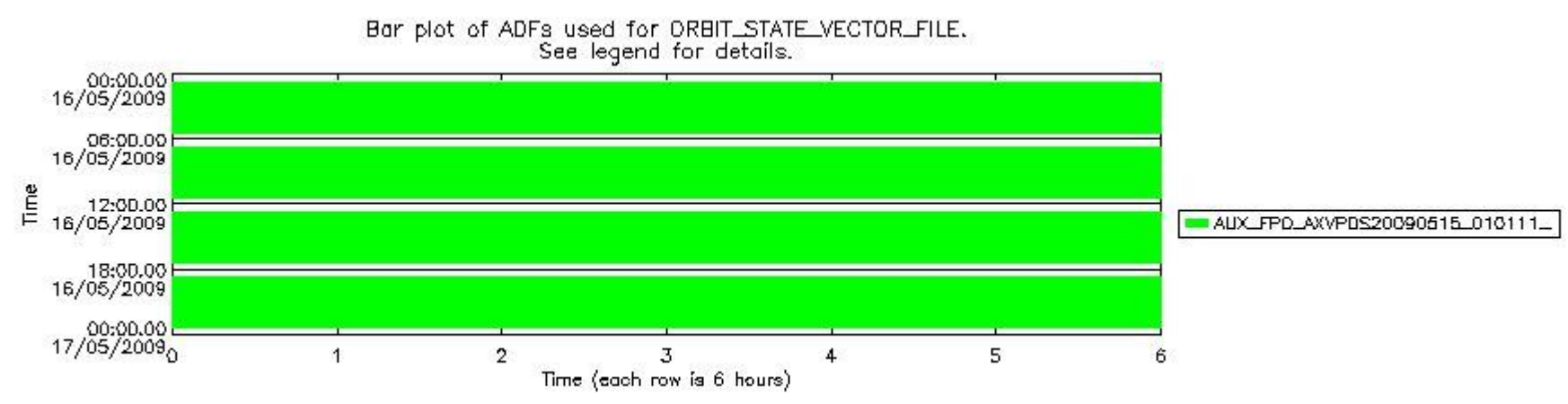
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

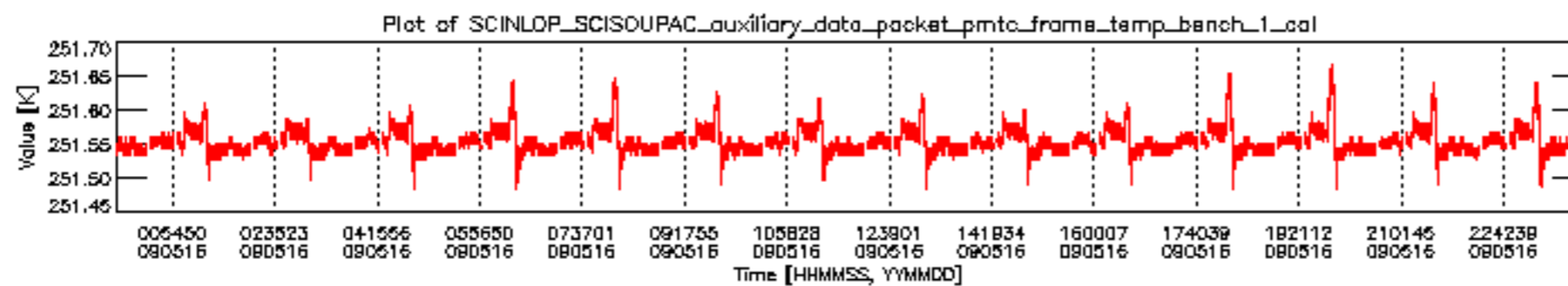
Number	ADF
	<b>CNO (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CNO_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090515_010111_20090514_184401_20090524_201015



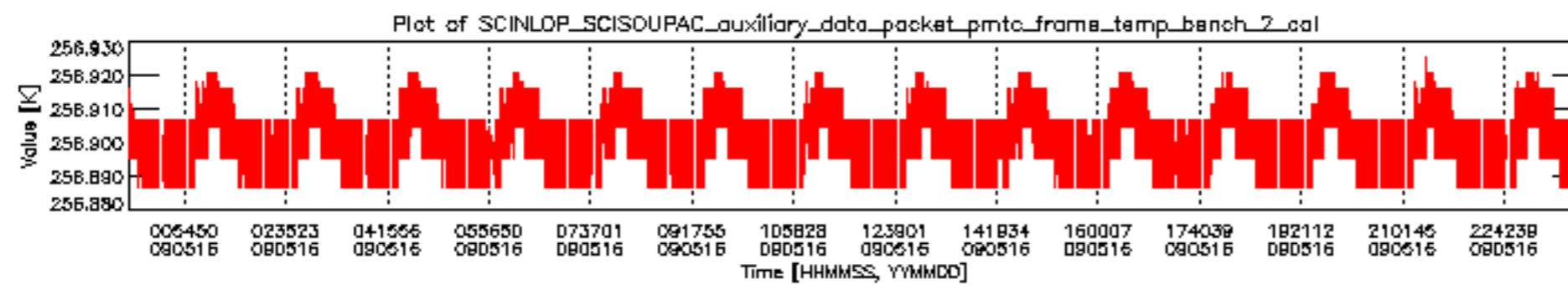
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090516\_7.PNG

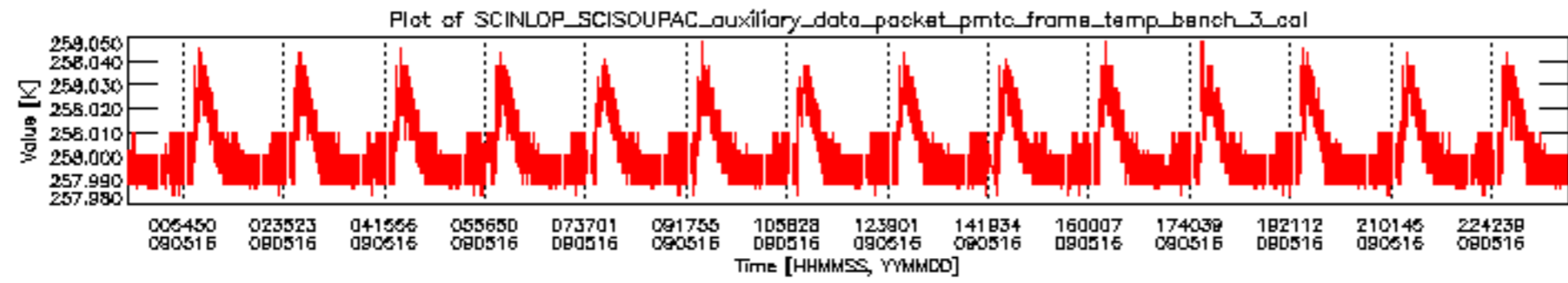


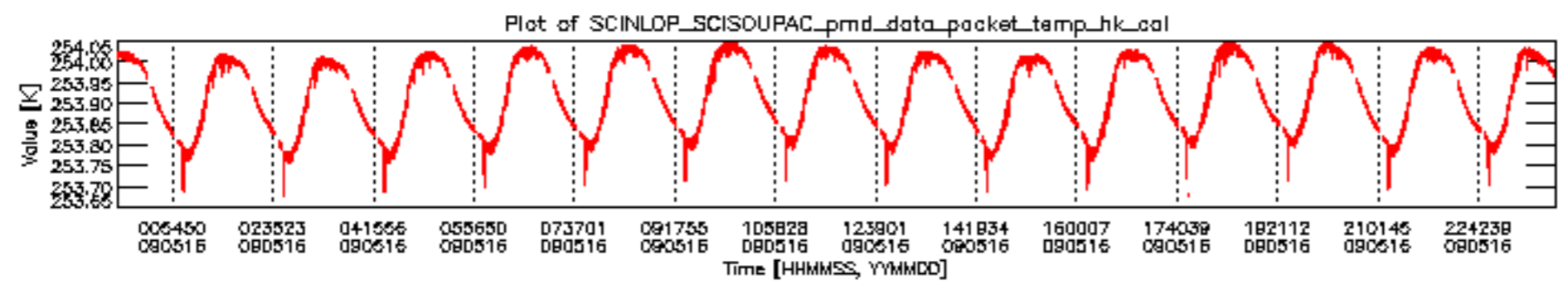
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090516\_8.PNG

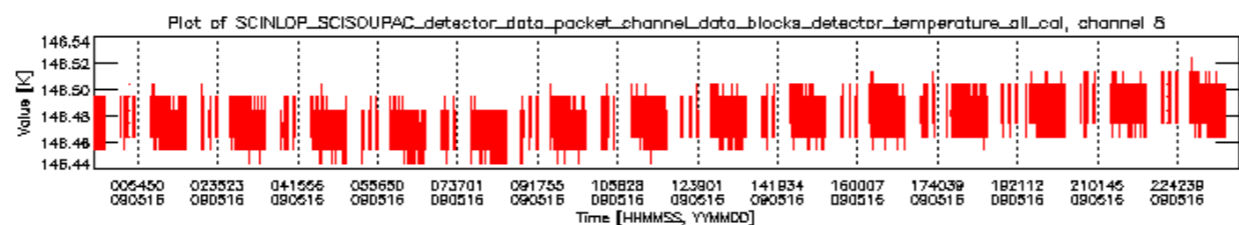
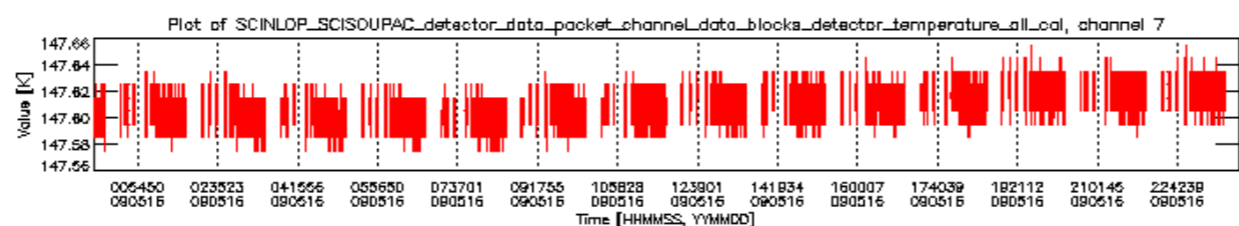
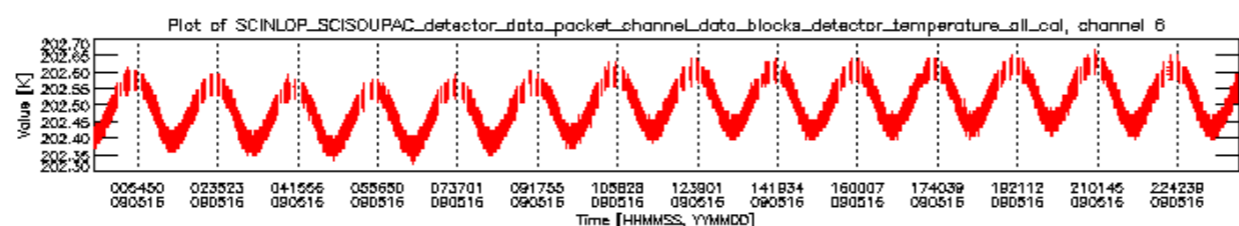
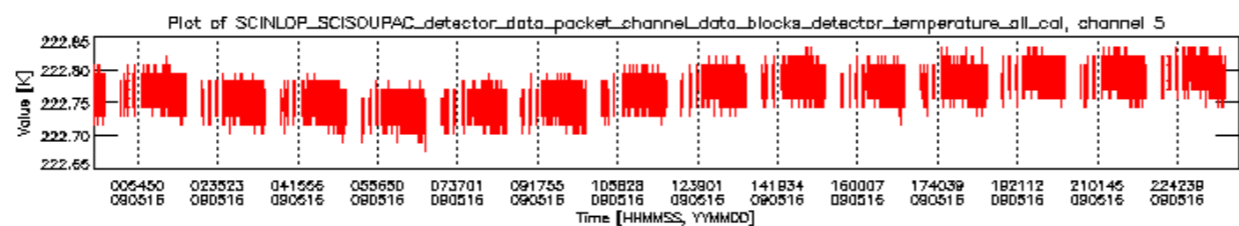
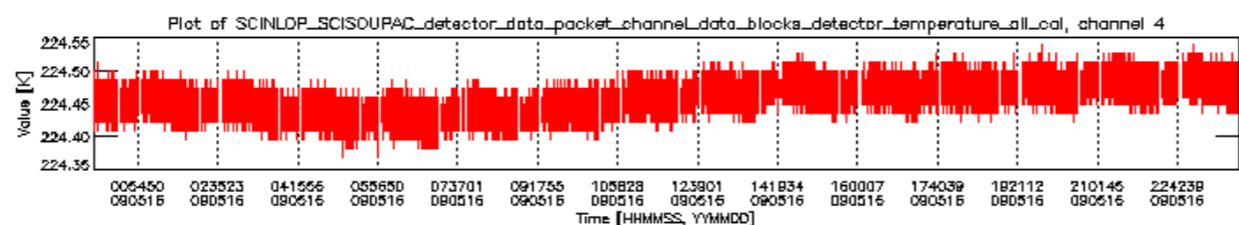
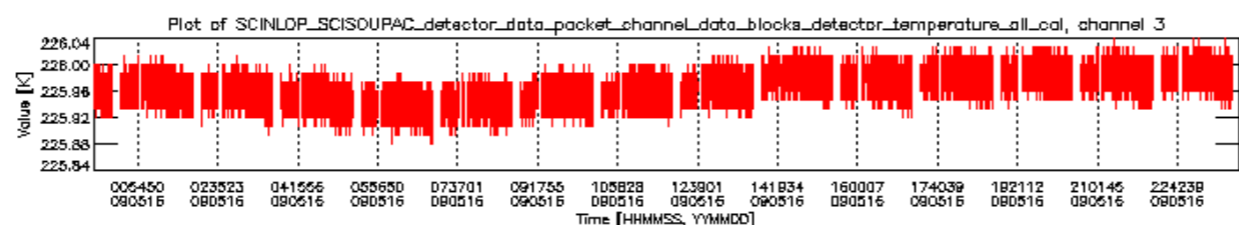
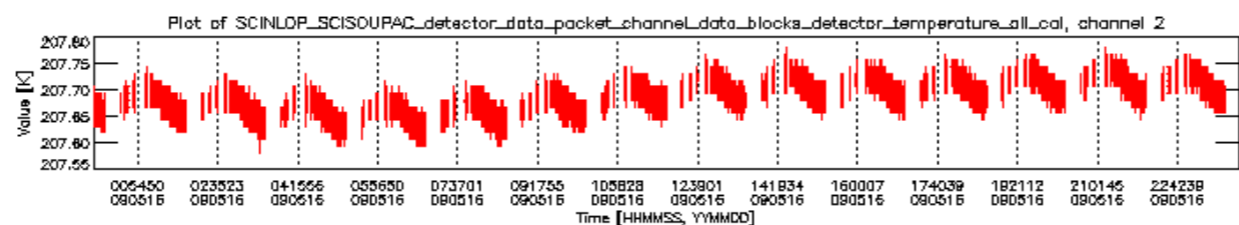
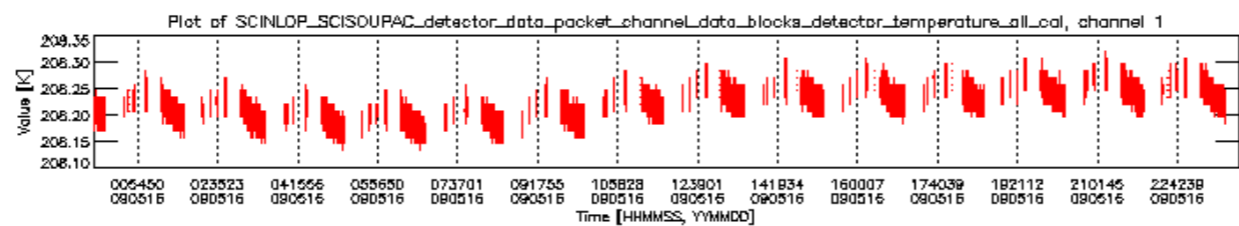




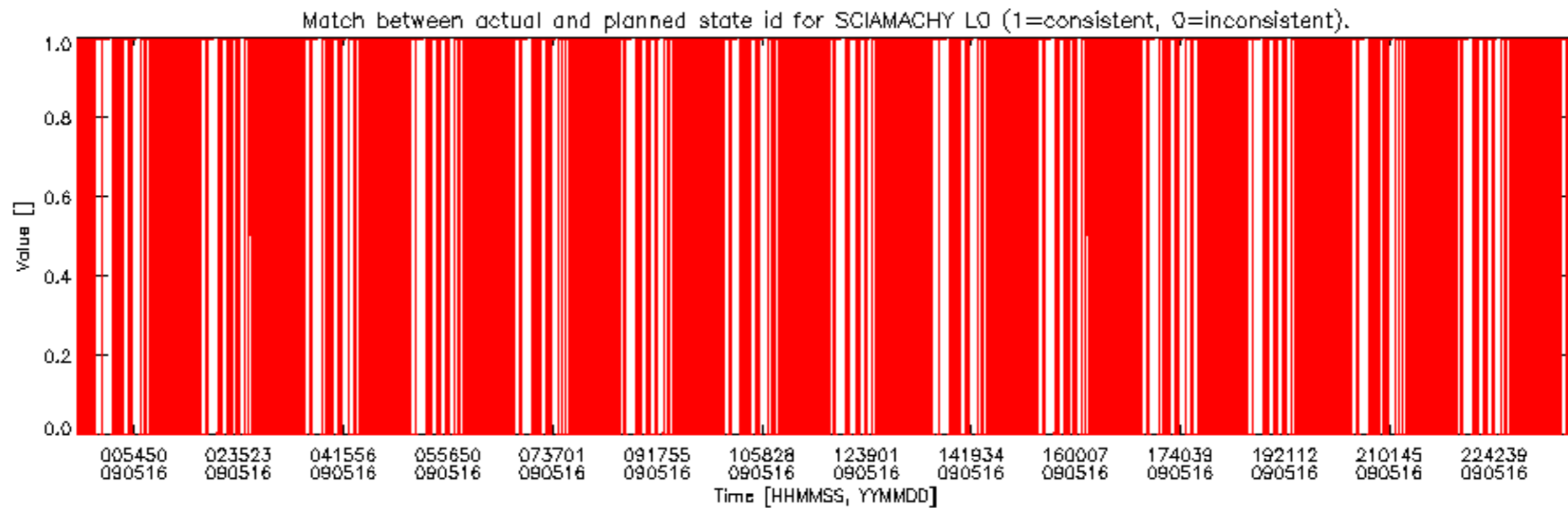
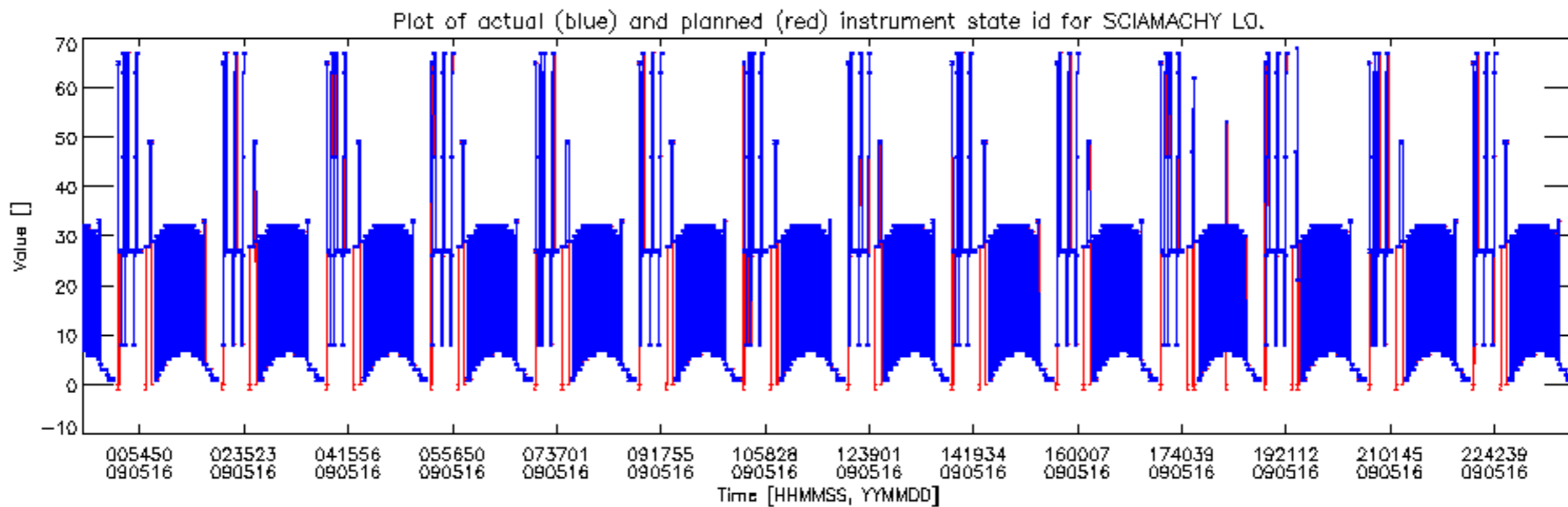












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 16MAY2009.  
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