

# 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	19JAN2009 05:55:07
Data source version	KSPT_L0/4303-N
Processing scope for products	15JAN2009 00:00:00 to 16JAN2009 00:00:00
Start time of first product within scope	14JAN2009 23:09:47
Stop time of last product within scope	16JAN2009 00:11:27
Total number of level 0 products	15
Number of level 0 products with errors	0

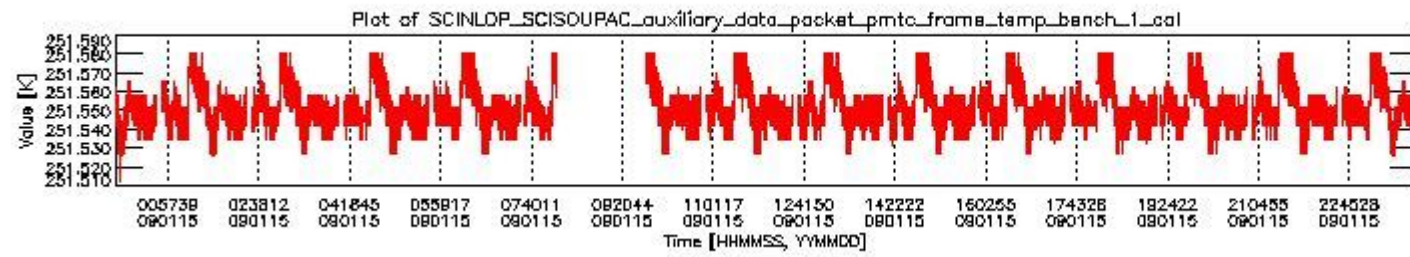
#### 0.1.2 Summary per product

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

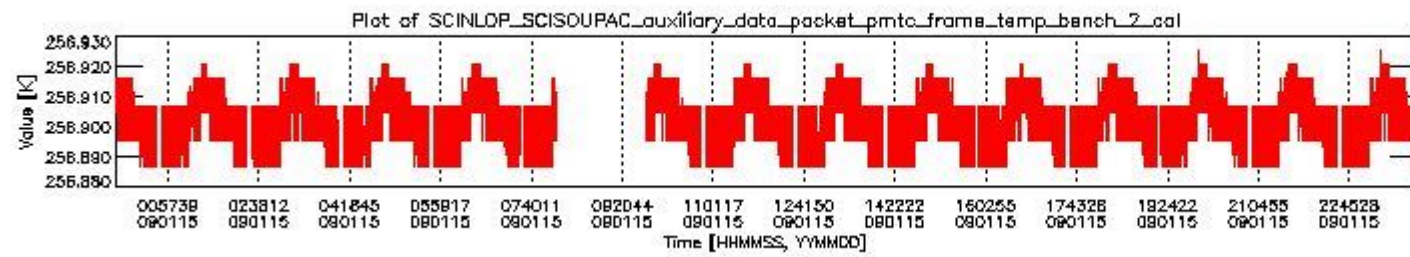
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090114_230947_000056012075_00330_35955_8293.N1	14JAN2009 23:09:47	15JAN2009 00:43:08	0	0	0	0	0
1	SCI_NL__OPNPDE20090115_005023_000055452075_00331_35956_8294.N1	15JAN2009 00:50:23	15JAN2009 02:22:48	0	0	0	0	0
2	SCI_NL__OPNPDE20090115_022031_000046162075_00332_35957_8295.N1	15JAN2009 02:20:31	15JAN2009 03:37:27	0	0	0	0	0
3	SCI_NL__OPNPDE20090115_033727_000061602075_00333_35958_8296.N1	15JAN2009 03:37:27	15JAN2009 05:20:07	0	0	0	0	0
4	SCI_NL__OPNPDE20090115_052007_000060362075_00334_35959_8297.N1	15JAN2009 05:20:07	15JAN2009 07:00:43	0	0	0	0	0
5	SCI_NL__OPNPDK20090115_065934_000040572075_00335_35960_0455.N1	15JAN2009 06:59:34	15JAN2009 08:07:12	0	0	0	0	0
6	SCI_NL__OPNPDK20090115_094639_000060362075_00337_35962_0457.N1	15JAN2009 09:46:39	15JAN2009 11:27:14	0	0	0	0	0
7	SCI_NL__OPNPDK20090115_112618_000061472075_00338_35963_0458.N1	15JAN2009 11:26:18	15JAN2009 13:08:46	0	0	0	0	0
8	SCI_NL__OPNPDK20090115_130750_000058682075_00339_35964_0459.N1	15JAN2009 13:07:50	15JAN2009 14:45:38	0	0	0	0	0
9	SCI_NL__OPNPDK20090115_144320_000060362075_00340_35965_0460.N1	15JAN2009 14:43:20	15JAN2009 16:23:56	0	0	0	0	0
10	SCI_NL__OPNPDK20090115_162356_000059232075_00341_35966_0461.N1	15JAN2009 16:23:56	15JAN2009 18:02:38	0	0	0	0	0
11	SCI_NL__OPNPDK20090115_180047_000058532075_00342_35967_0462.N1	15JAN2009 18:00:47	15JAN2009 19:38:20	0	0	0	0	0
12	SCI_NL__OPNPDE20090115_194122_000039552075_00343_35968_8298.N1	15JAN2009 19:41:22	15JAN2009 20:47:18	0	0	0	0	0
13	SCI_NL__OPNPDE20090115_204609_000062952075_00343_35968_8299.N1	15JAN2009 20:46:09	15JAN2009 22:31:04	0	0	0	0	0
14	SCI_NL__OPNPDE20090115_223807_000056002075_00344_35969_8300.N1	15JAN2009 22:38:07	16JAN2009 00:11:27	0	0	0	0	0

### 0.2 Product Quality Indicators

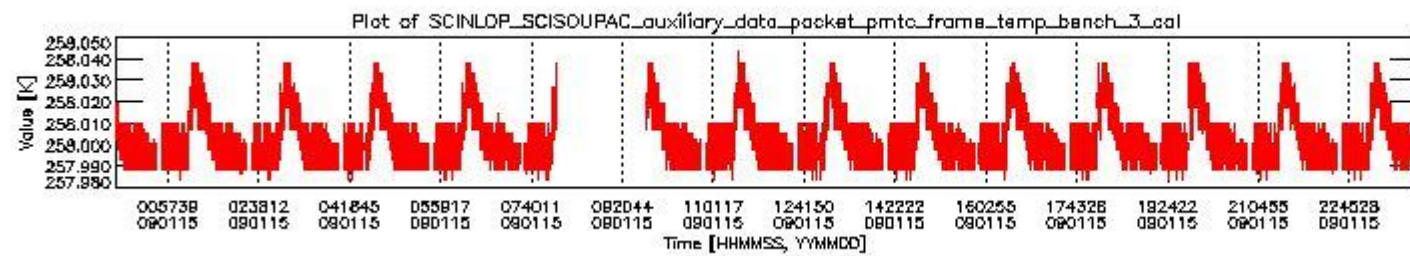
This section shows information about product quality, currently temperatures.



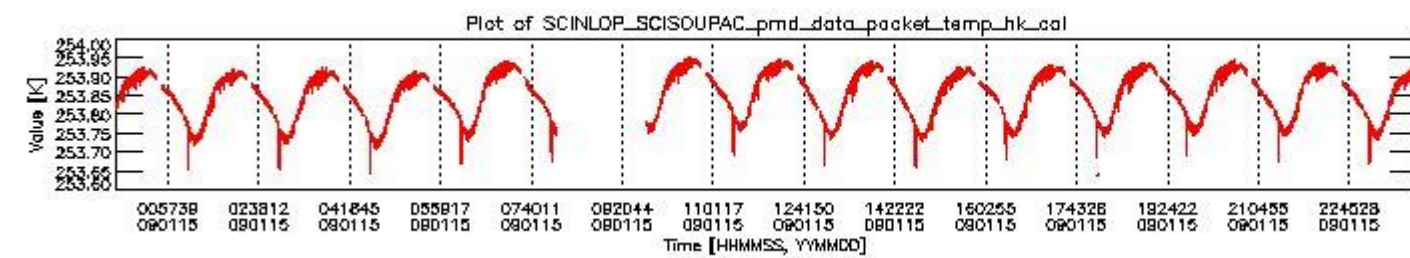
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090115\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090115\_1.PNG

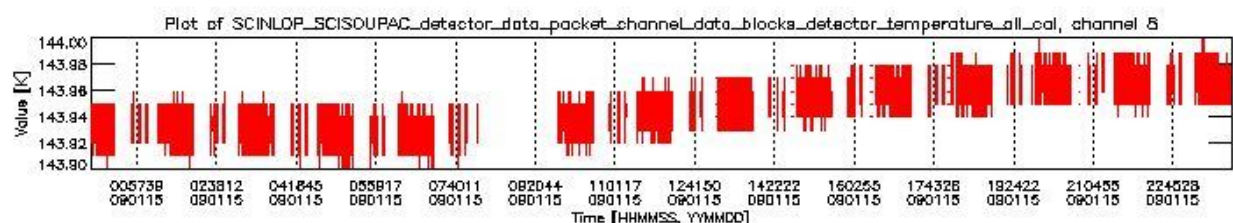
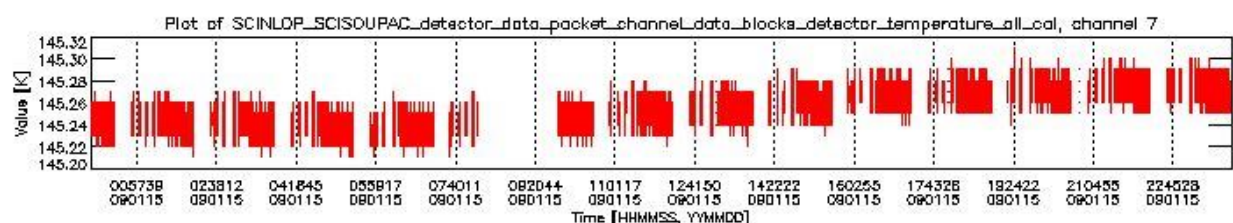
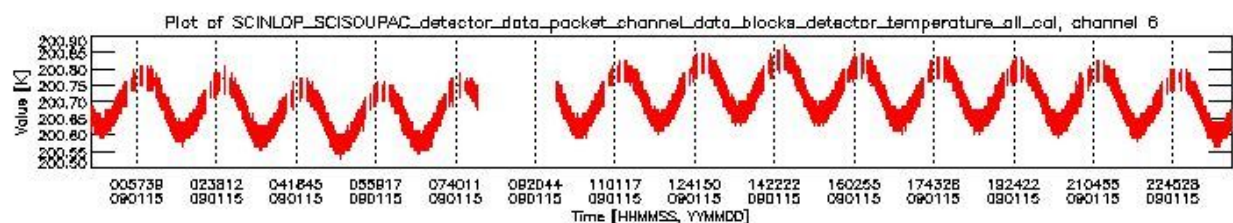
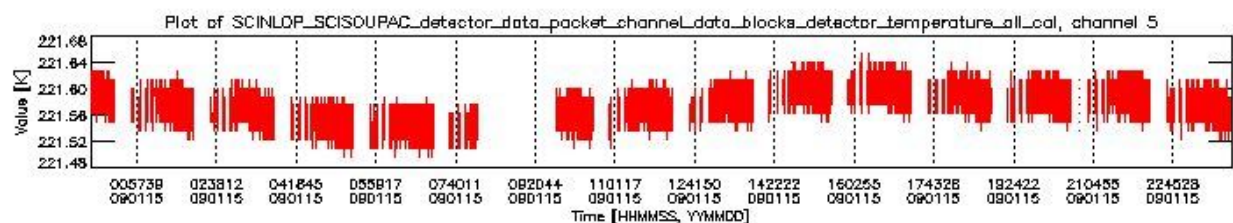
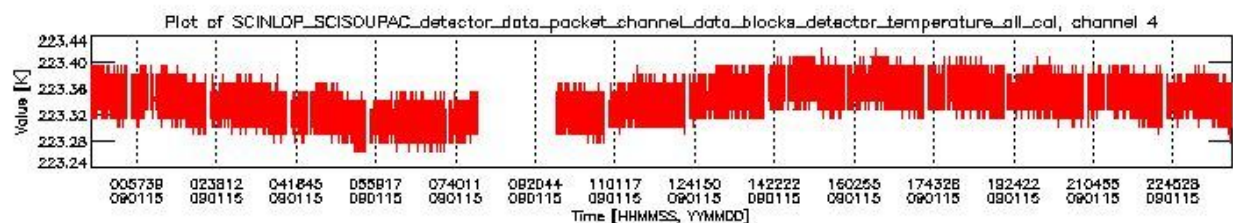
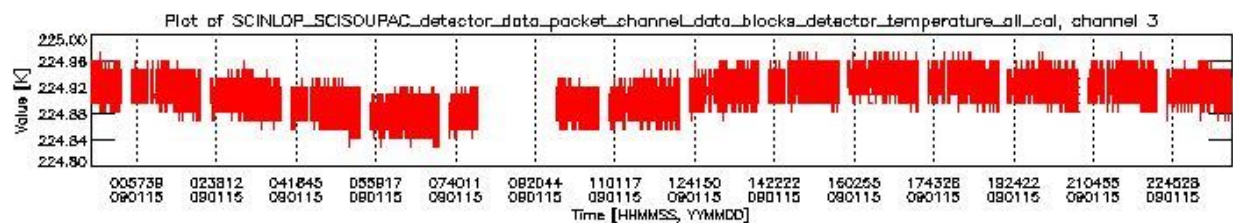
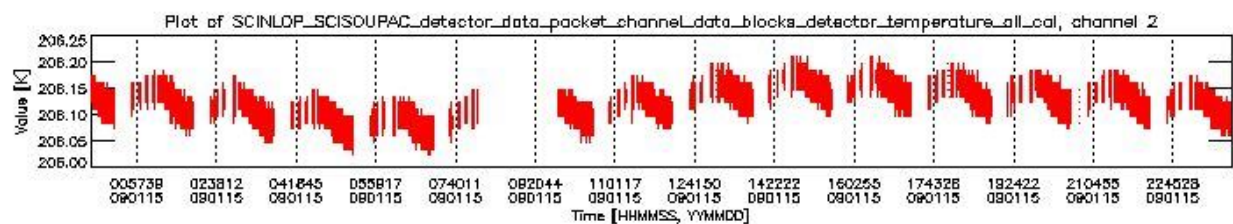
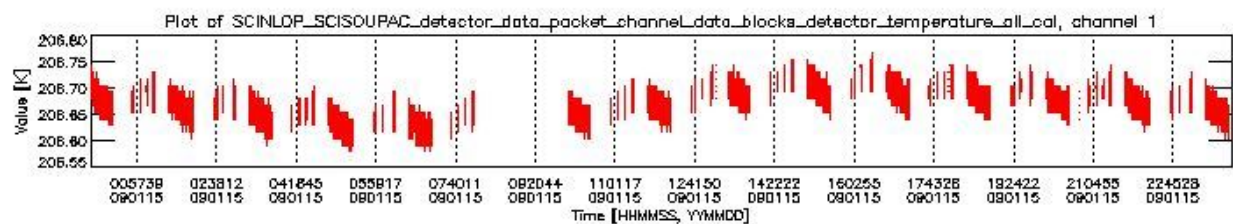


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090115\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090115\_3.PNG



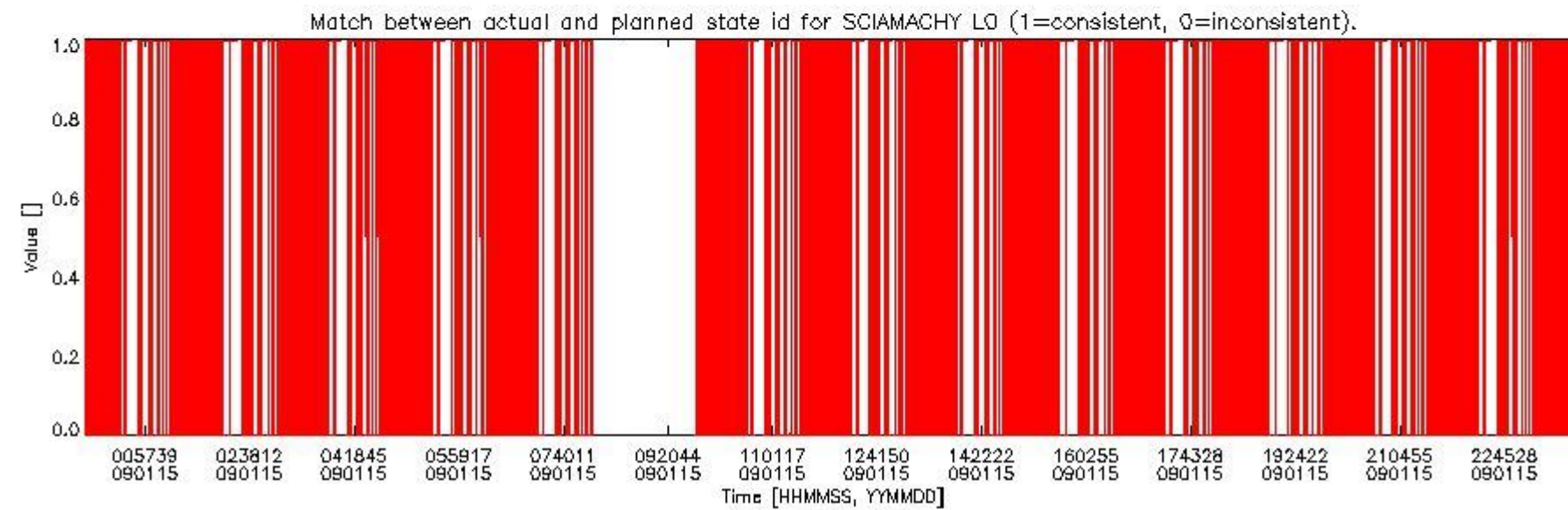
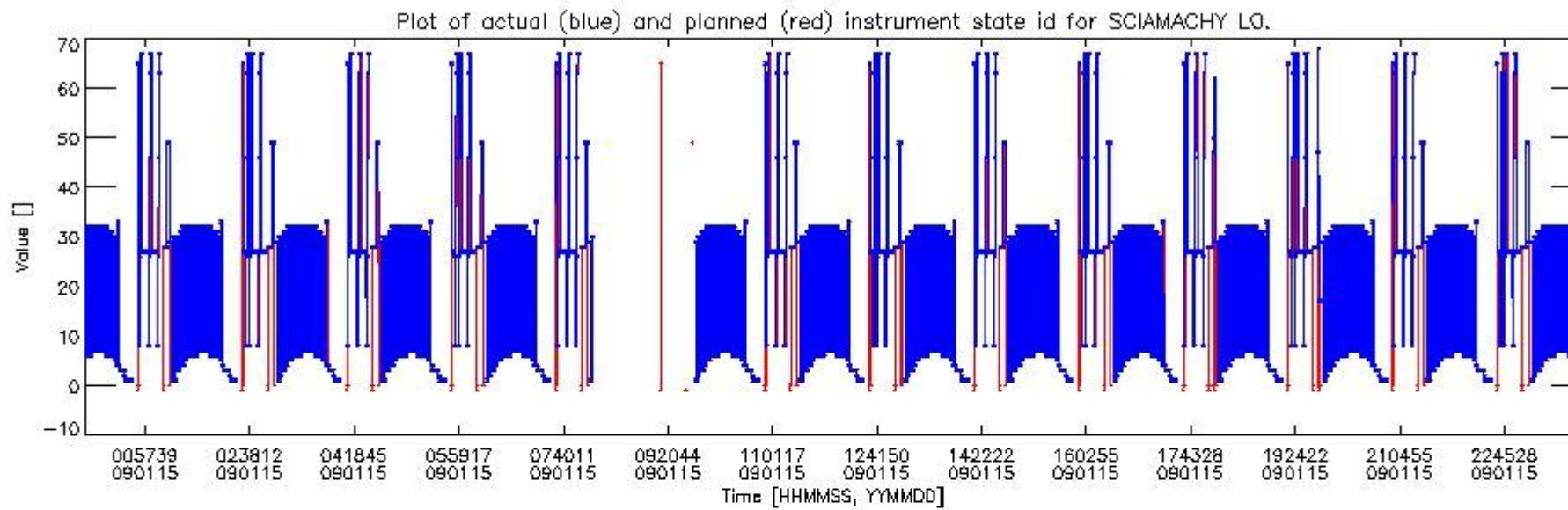


### 0.3 State monitoring

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: **50402**

#	Actual time	Actual value	Planned time	Planned value
0	15JAN2009 00:00:36.702999	6	15JAN2009 00:00:36.702999	32
1	15JAN2009 00:00:37.078013	6	15JAN2009 00:00:37.078013	32
2	15JAN2009 00:00:37.327981	6	15JAN2009 00:00:37.327981	32
3	15JAN2009 00:00:37.577990	6	15JAN2009 00:00:37.577990	32
4	15JAN2009 00:00:37.827998	6	15JAN2009 00:00:37.827998	32
5	15JAN2009 00:00:38.078007	6	15JAN2009 00:00:38.078007	32
6	15JAN2009 00:00:38.327976	6	15JAN2009 00:00:38.327976	32
7	15JAN2009 00:00:38.577984	6	15JAN2009 00:00:38.577984	32
8	15JAN2009 00:00:38.827993	6	15JAN2009 00:00:38.827993	32
9	15JAN2009 00:00:39.078002	6	15JAN2009 00:00:39.078002	32
10	15JAN2009 00:00:39.328010	6	15JAN2009 00:00:39.328010	32
11	15JAN2009 00:00:39.577979	6	15JAN2009 00:00:39.577979	32
12	15JAN2009 00:00:39.827988	6	15JAN2009 00:00:39.827988	32
13	15JAN2009 00:00:40.077996	6	15JAN2009 00:00:40.077996	32
14	15JAN2009 00:00:40.328005	6	15JAN2009 00:00:40.328005	32
15	15JAN2009 00:00:40.577973	6	15JAN2009 00:00:40.577973	32
16	15JAN2009 00:00:40.827982	6	15JAN2009 00:00:40.827982	32
17	15JAN2009 00:00:41.077991	6	15JAN2009 00:00:41.077991	32
18	15JAN2009 00:00:41.328000	6	15JAN2009 00:00:41.328000	32
19	15JAN2009 00:00:41.578008	6	15JAN2009 00:00:41.578008	32
	...	...	...	...



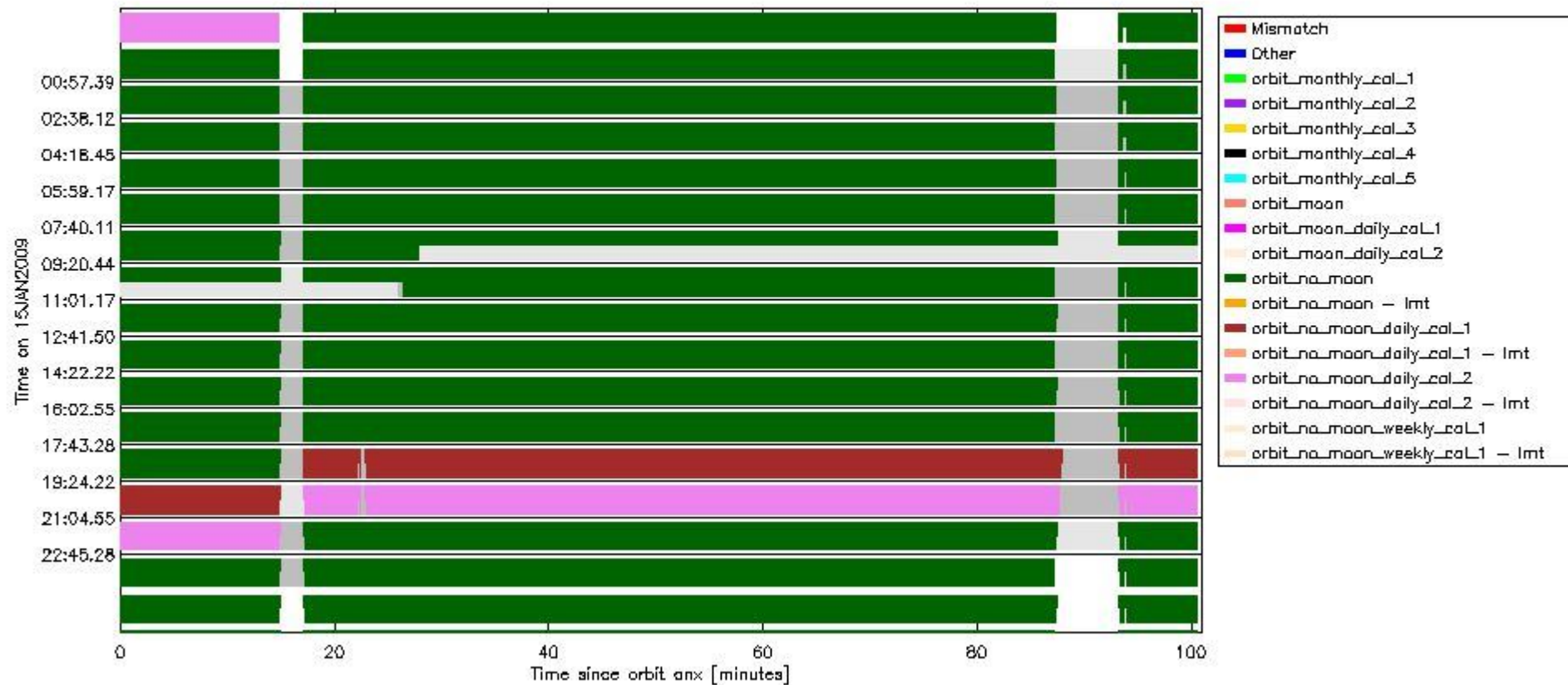
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090115\_5.PNG

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 15JAN2009.  
 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\_20090115\_6.PNG

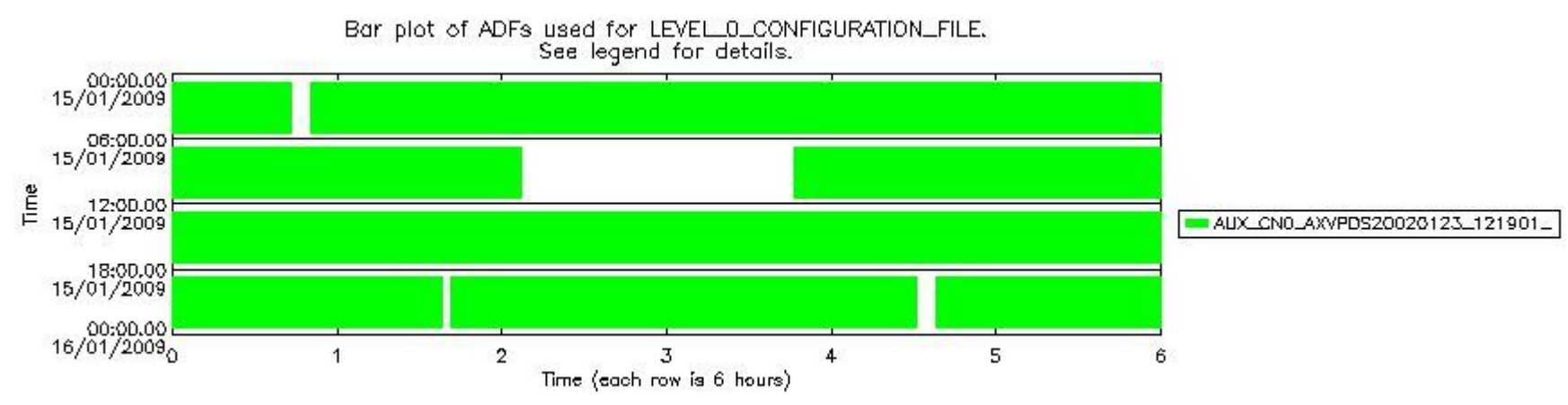
## 0.4 ADF monitoring

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

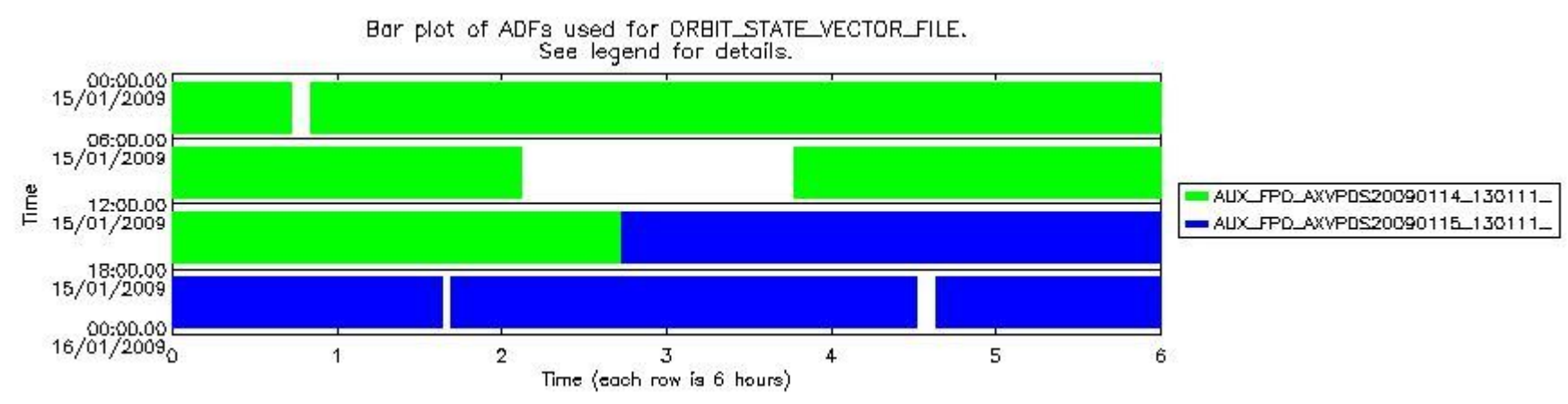
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

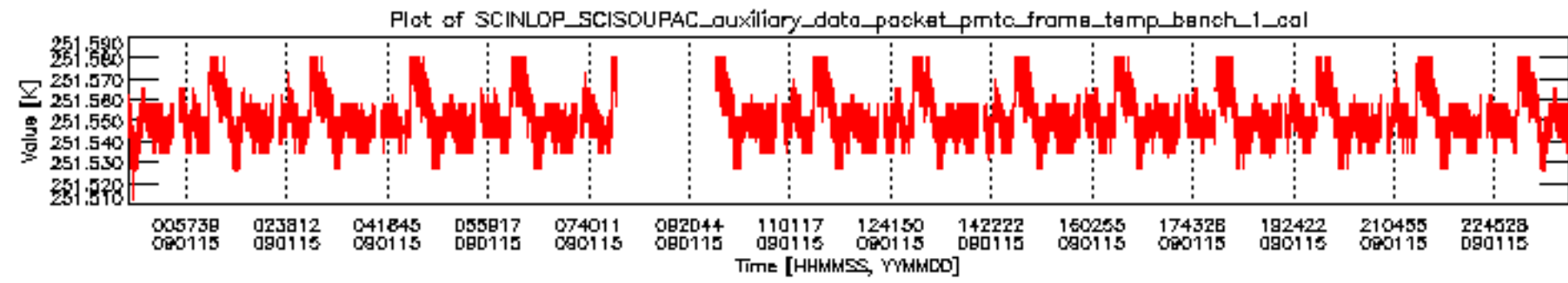
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090114_130111_20090113_184653_20090123_201305
2	AUX_FPO_AXVPDS20090115_130111_20090114_195552_20090124_212204



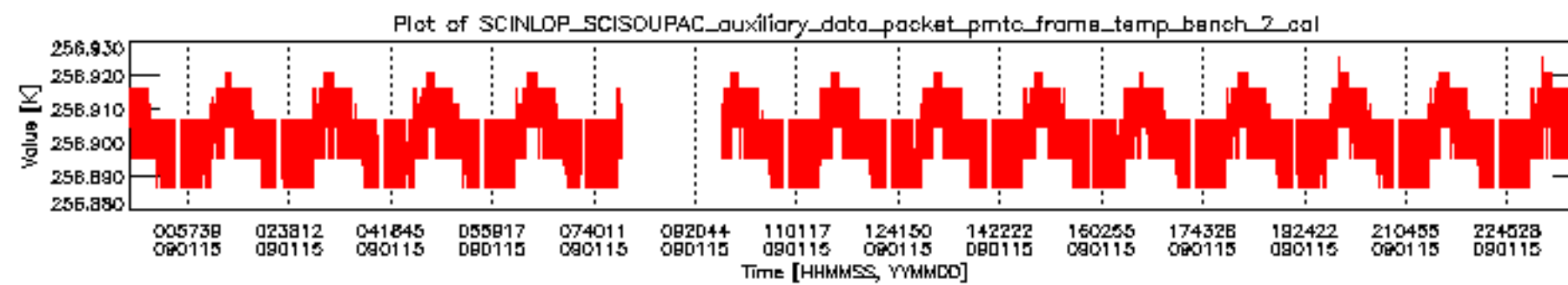
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090115\_7.PNG

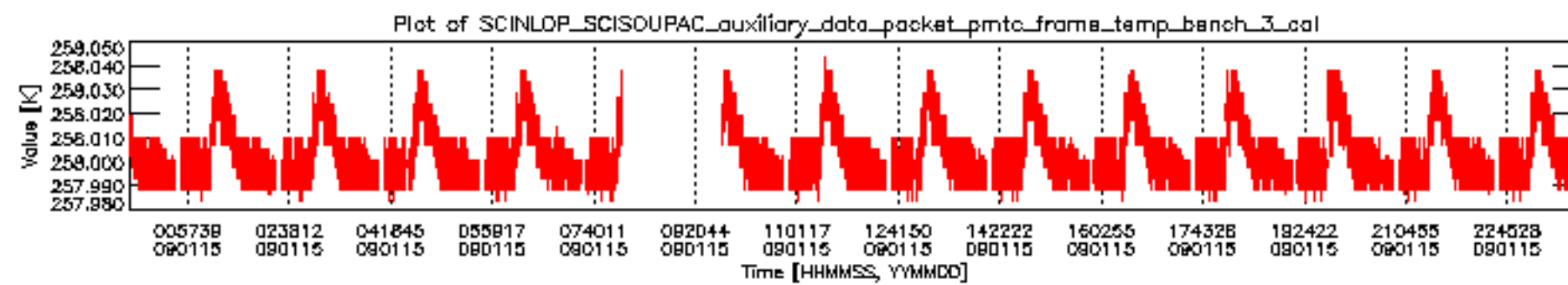


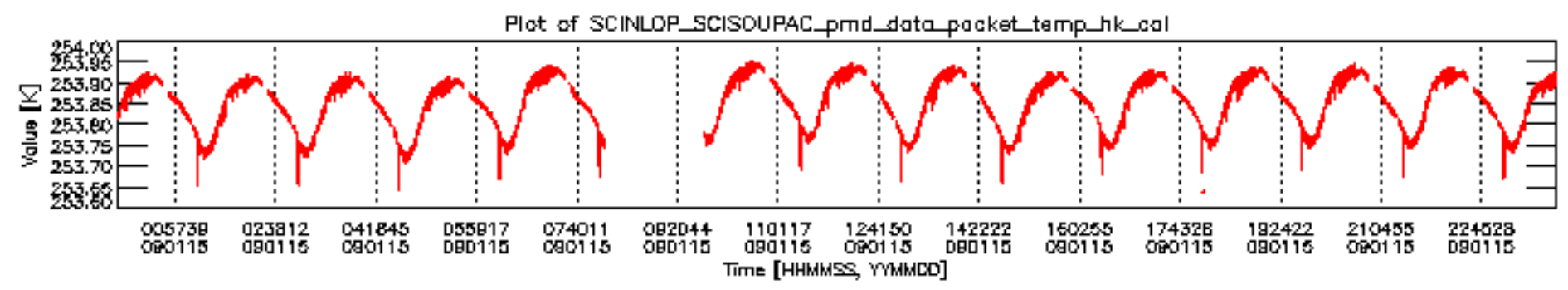
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090115\_8.PNG

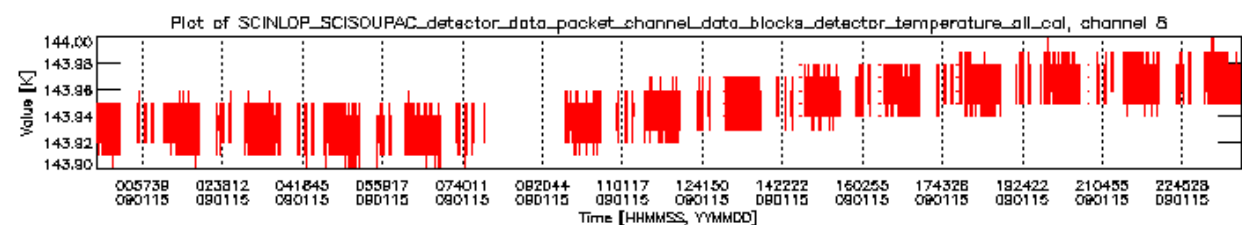
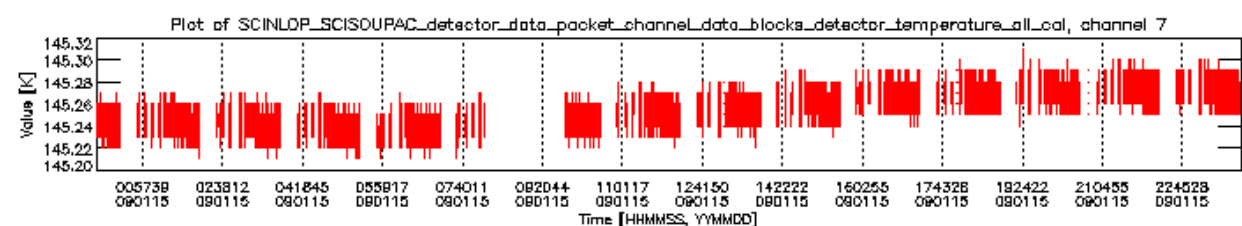
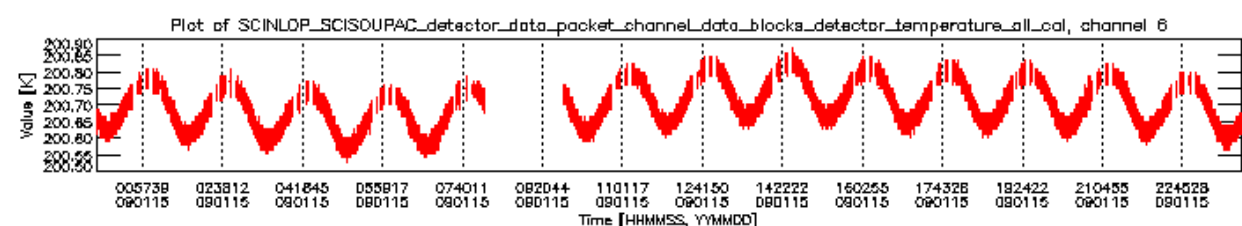
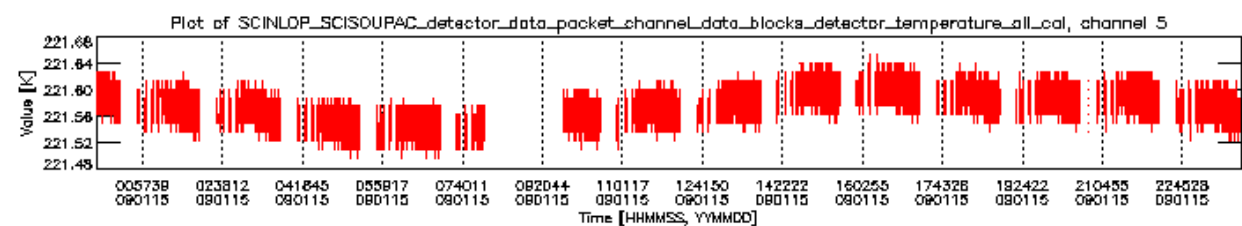
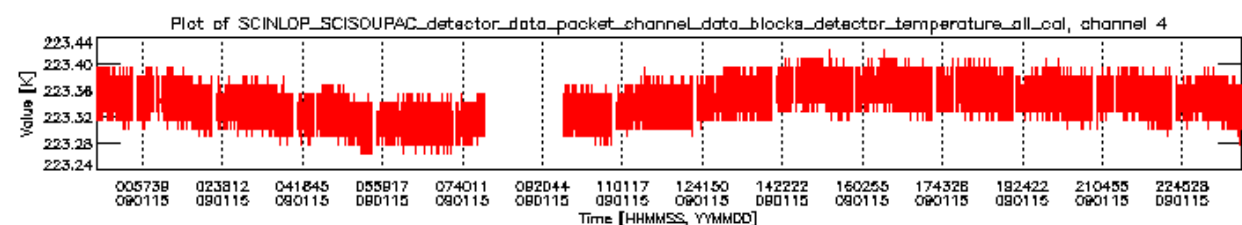
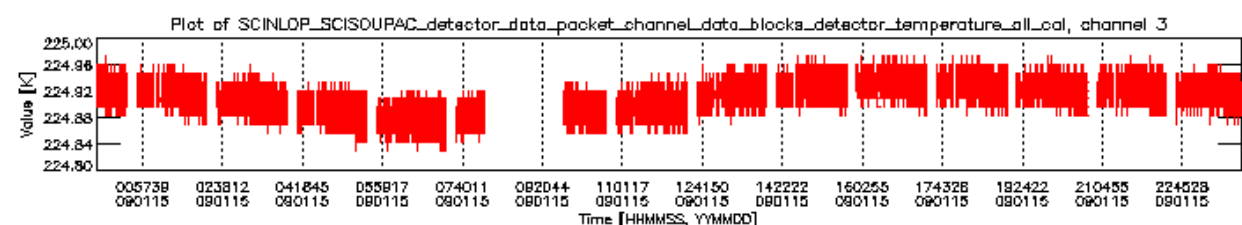
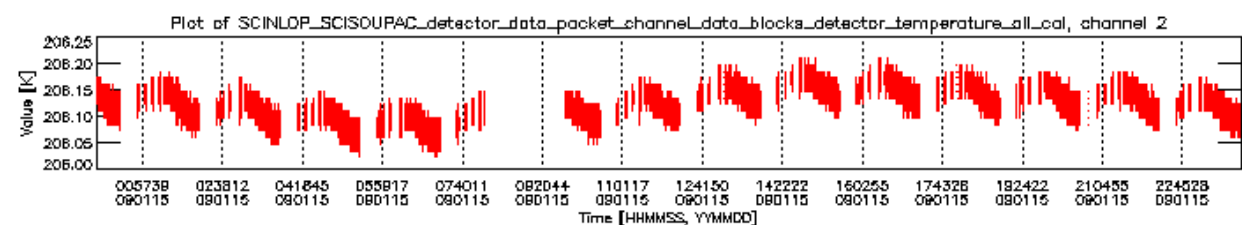
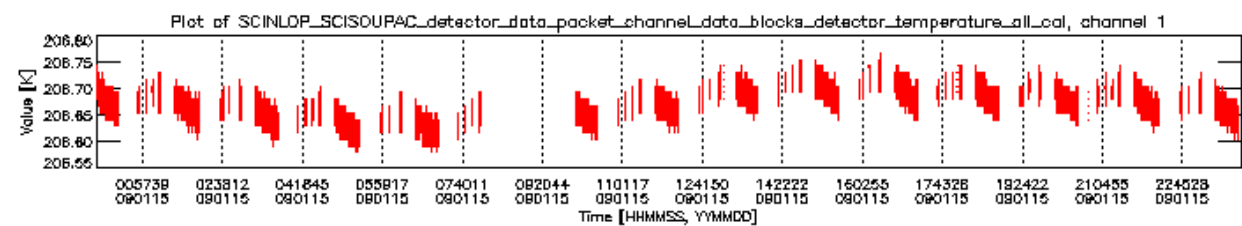




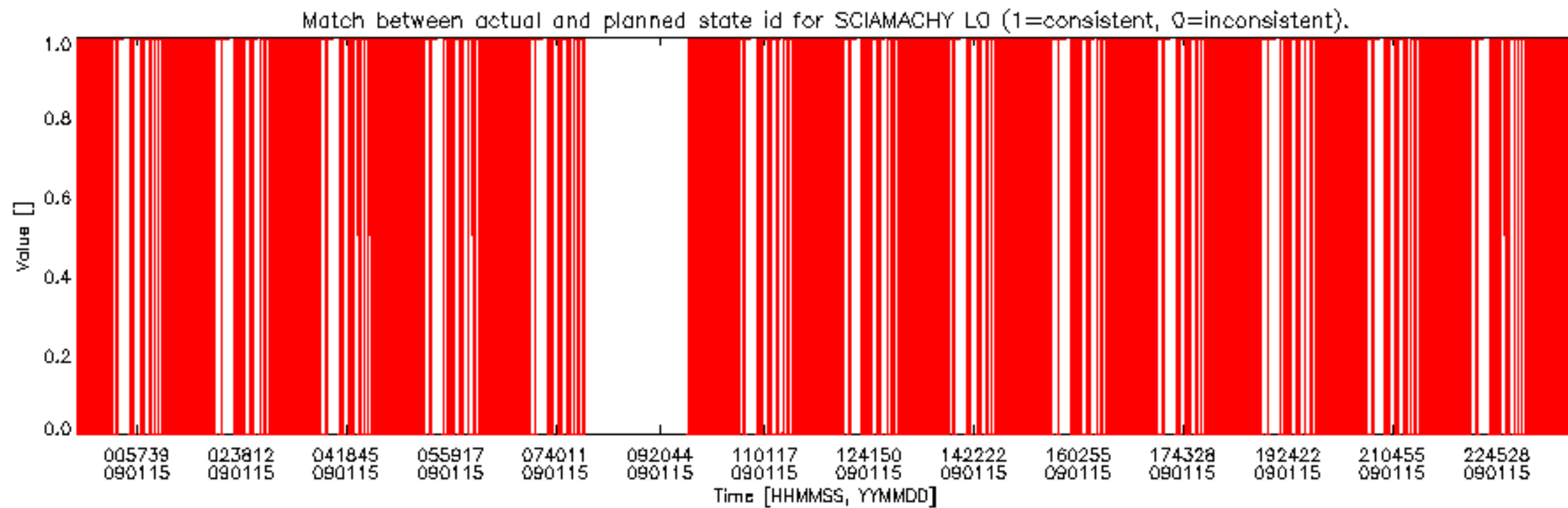
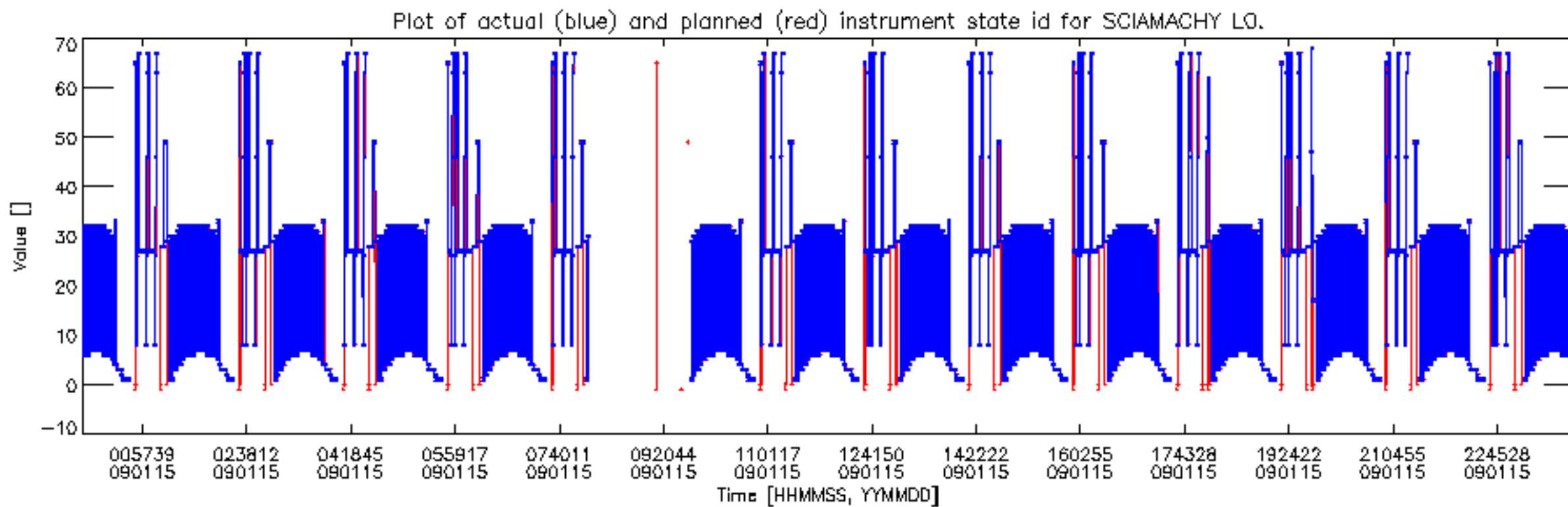












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 15JAN2009.  
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