

# 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	23JAN2009 04:18:19
Data source version	KSPT_L0/4303-N
Processing scope for products	19JAN2009 00:00:00 to 20JAN2009 00:00:00
Start time of first product within scope	18JAN2009 22:43:42
Stop time of last product within scope	20JAN2009 01:25:52
Total number of level 0 products	17
Number of level 0 products with errors	4

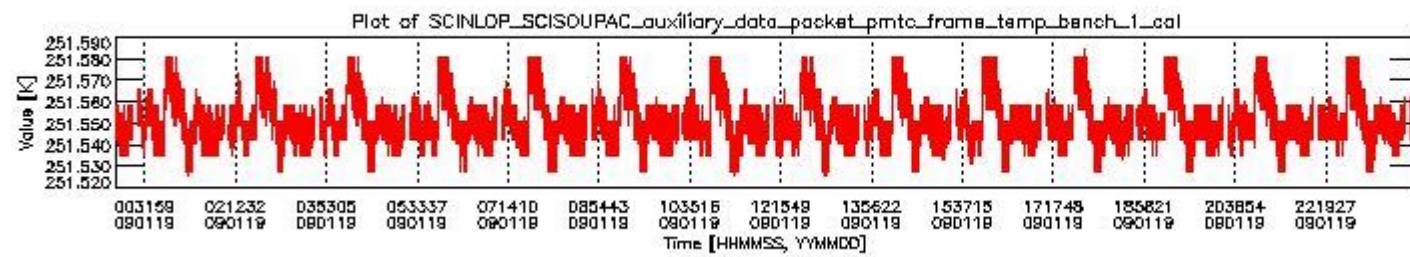
#### 0.1.2 Summary per product

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

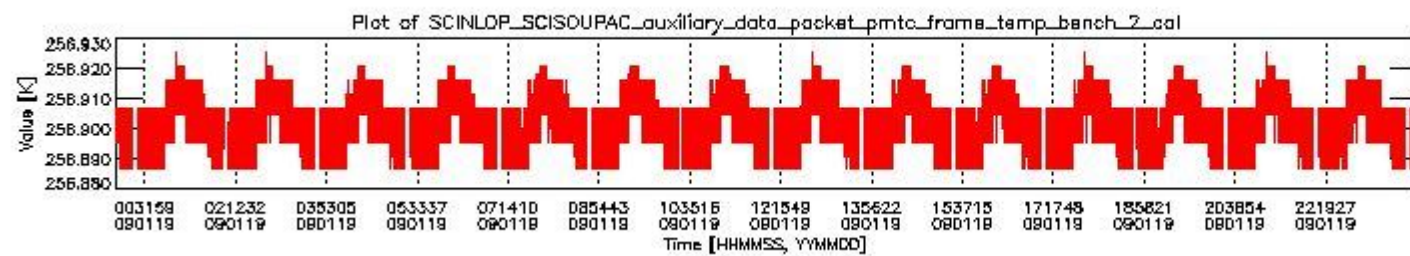
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090118_224342_000056082075_00387_36012_8320.N1	18JAN2009 22:43:42	19JAN2009 00:17:11	0	0	0	0	0
1	SCI_NL__OPNPDE20090119_002418_000055962075_00388_36013_8321.N1	19JAN2009 00:24:18	19JAN2009 01:57:33	0	0	0	0	0
2	SCI_NL__OPNPDE20090119_015625_000048652075_00389_36014_8322.N1	19JAN2009 01:56:25	19JAN2009 03:17:30	0	0	0	0	0
3	SCI_NL__OPNPDE20090119_031634_000058432075_00390_36015_8323.N1	19JAN2009 03:16:34	19JAN2009 04:53:57	0	0	0	0	0
4	SCI_NL__OPNPDE20090119_045248_000061042075_00391_36016_8324.N1	19JAN2009 04:52:48	19JAN2009 06:34:32	0	0	0	0	0
5	SCI_NL__OPNPDK20090119_063336_000041562075_00392_36017_0491.N1	19JAN2009 06:33:36	19JAN2009 07:42:53	1	1	0	0	0
6	SCI_NL__OPNPDK20090119_074048_000061042075_00393_36018_0492.N1	19JAN2009 07:40:48	19JAN2009 09:22:32	1	0	1	0	0
7	SCI_NL__OPNPDK20090119_092137_000060912075_00394_36019_0493.N1	19JAN2009 09:21:37	19JAN2009 11:03:08	1	1	0	0	0
8	SCI_NL__OPNPDK20090119_110159_000059802075_00395_36020_0494.N1	19JAN2009 11:01:59	19JAN2009 12:41:39	0	0	0	0	0
9	SCI_NL__OPNPDK20090119_123947_000059802075_00396_36021_0495.N1	19JAN2009 12:39:47	19JAN2009 14:19:27	0	0	0	0	0
10	SCI_NL__OPNPDK20090119_141709_000061742075_00397_36022_0496.N1	19JAN2009 14:17:09	19JAN2009 16:00:03	1	1	0	0	0
11	SCI_NL__OPNPDK20090119_155745_000058672075_00398_36023_0497.N1	19JAN2009 15:57:45	19JAN2009 17:35:32	0	0	0	0	0
12	SCI_NL__OPNPDK20090119_173436_000060362075_00399_36024_0498.N1	19JAN2009 17:34:36	19JAN2009 19:15:12	0	0	0	0	0
13	SCI_NL__OPNPDK20090119_191512_000060912075_00400_36025_0499.N1	19JAN2009 19:15:12	19JAN2009 20:56:43	0	0	0	0	0
14	SCI_NL__OPNPDE20090119_205547_000041332075_00401_36026_8325.N1	19JAN2009 20:55:47	19JAN2009 22:04:41	0	0	0	0	0
15	SCI_NL__OPNPDE20090119_221202_000056072075_00401_36026_8326.N1	19JAN2009 22:12:02	19JAN2009 23:45:29	0	0	0	0	0
16	SCI_NL__OPNPDE20090119_235237_000055942075_00402_36027_8327.N1	19JAN2009 23:52:37	20JAN2009 01:25:52	0	0	0	0	0

### 0.2 Product Quality Indicators

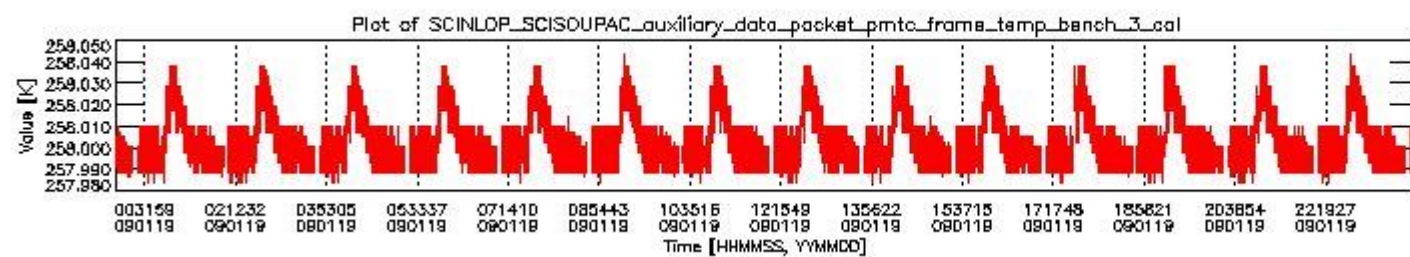
This section shows information about product quality, currently temperatures.



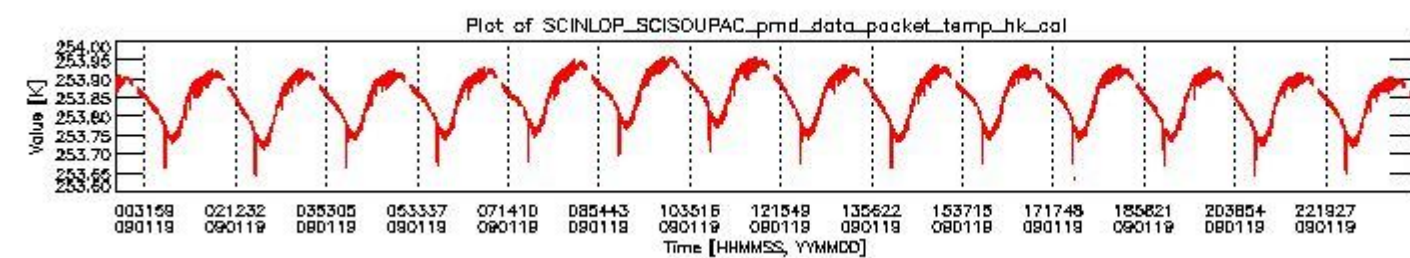
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090119\_0.PNG



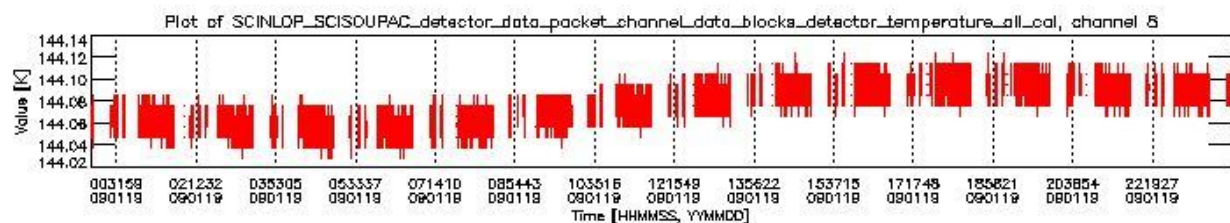
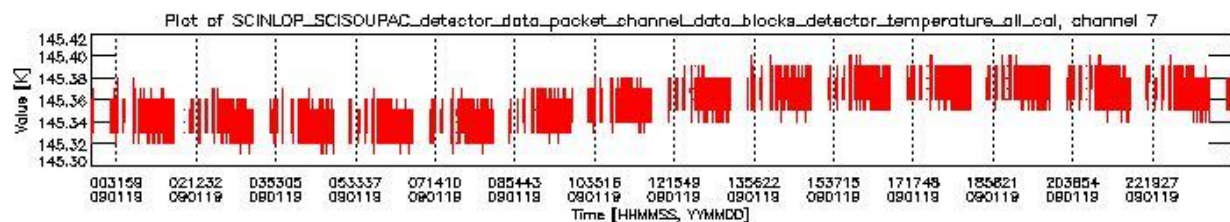
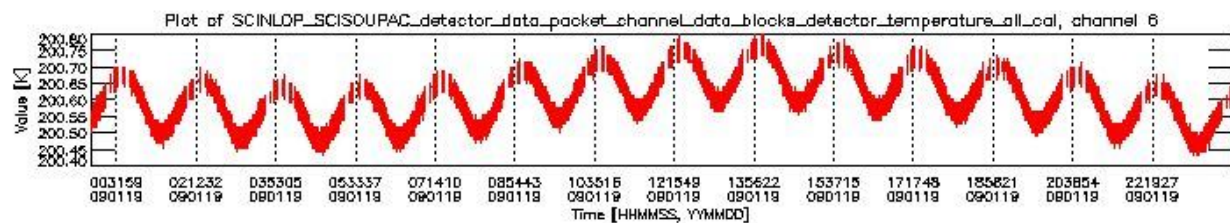
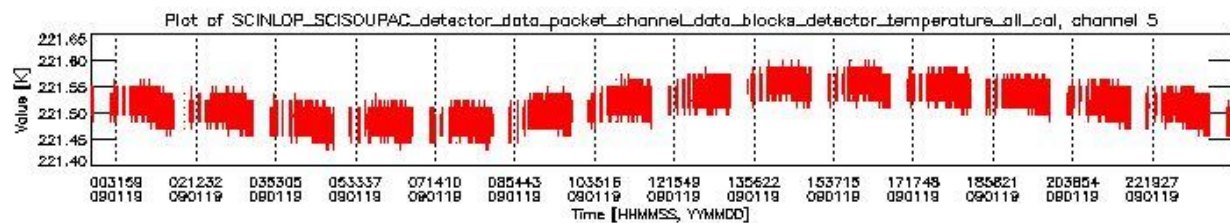
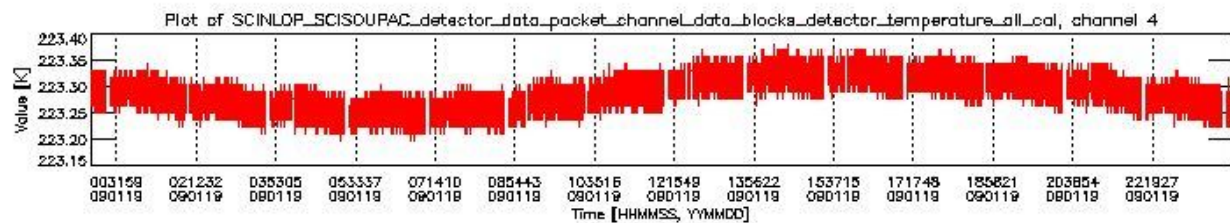
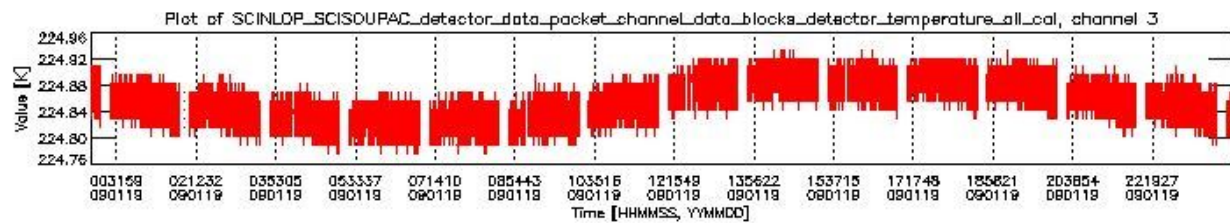
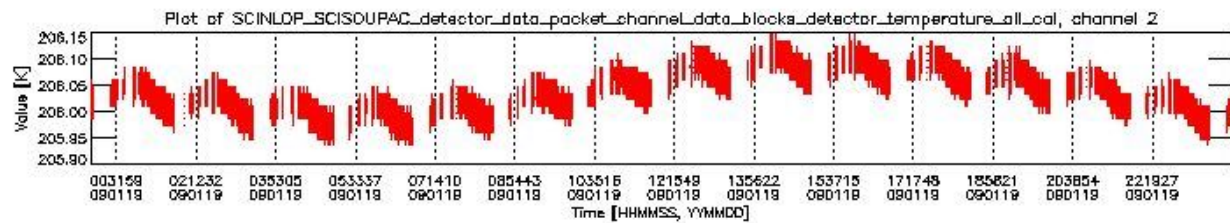
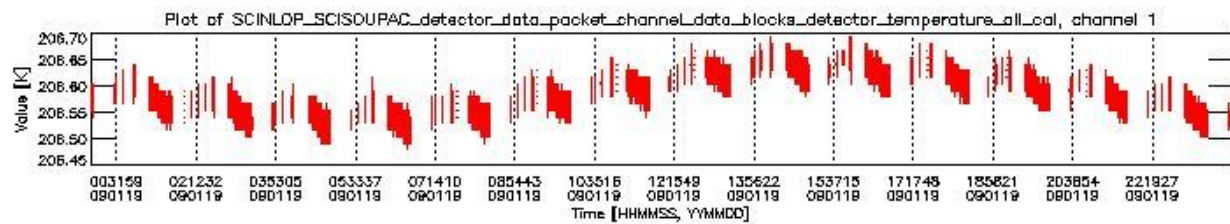
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090119\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090119\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090119\_3.PNG

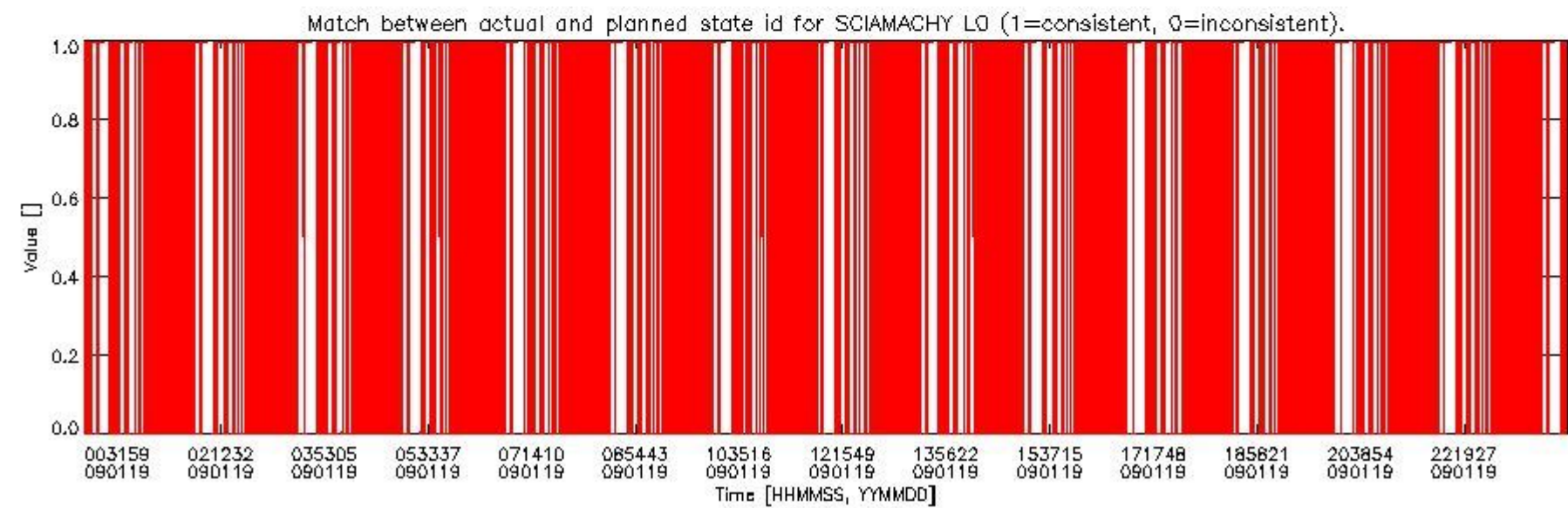
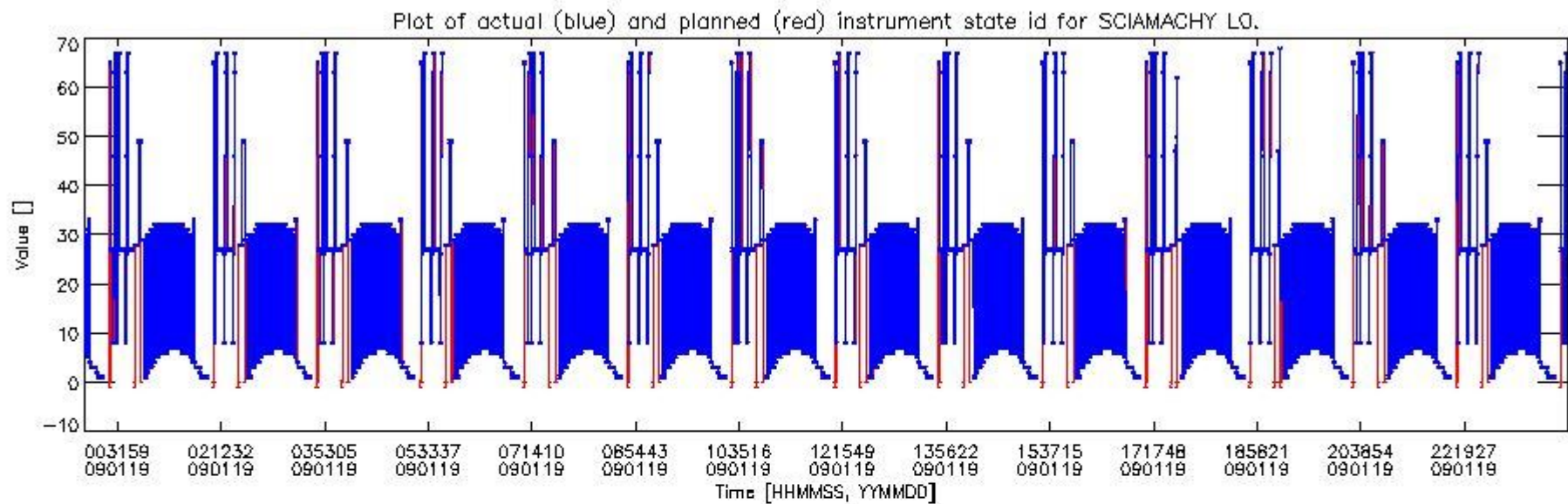


### 0.3 State monitoring

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: **55978**

#	Actual time	Actual value	Planned time	Planned value
0	19JAN2009 00:00:28.080355	6	19JAN2009 00:00:28.080355	31
1	19JAN2009 00:00:28.455368	6	19JAN2009 00:00:28.455368	31
2	19JAN2009 00:00:28.705336	6	19JAN2009 00:00:28.705336	31
3	19JAN2009 00:00:28.955345	6	19JAN2009 00:00:28.955345	31
4	19JAN2009 00:00:29.205354	6	19JAN2009 00:00:29.205354	31
5	19JAN2009 00:00:29.455362	6	19JAN2009 00:00:29.455362	31
6	19JAN2009 00:00:29.705371	6	19JAN2009 00:00:29.705371	31
7	19JAN2009 00:00:29.955339	6	19JAN2009 00:00:29.955339	31
8	19JAN2009 00:00:30.205348	6	19JAN2009 00:00:30.205348	31
9	19JAN2009 00:00:30.455357	6	19JAN2009 00:00:30.455357	31
10	19JAN2009 00:00:30.705366	6	19JAN2009 00:00:30.705366	31
11	19JAN2009 00:00:30.955374	6	19JAN2009 00:00:30.955374	31
12	19JAN2009 00:00:31.205343	6	19JAN2009 00:00:31.205343	31
13	19JAN2009 00:00:31.455351	6	19JAN2009 00:00:31.455351	31
14	19JAN2009 00:00:31.705360	6	19JAN2009 00:00:31.705360	31
15	19JAN2009 00:00:31.955369	6	19JAN2009 00:00:31.955369	31
16	19JAN2009 00:00:32.205337	6	19JAN2009 00:00:32.205337	31
17	19JAN2009 00:00:32.455346	6	19JAN2009 00:00:32.455346	31
18	19JAN2009 00:00:32.705355	6	19JAN2009 00:00:32.705355	31
19	19JAN2009 00:00:32.955363	6	19JAN2009 00:00:32.955363	31
	...	...	...	...

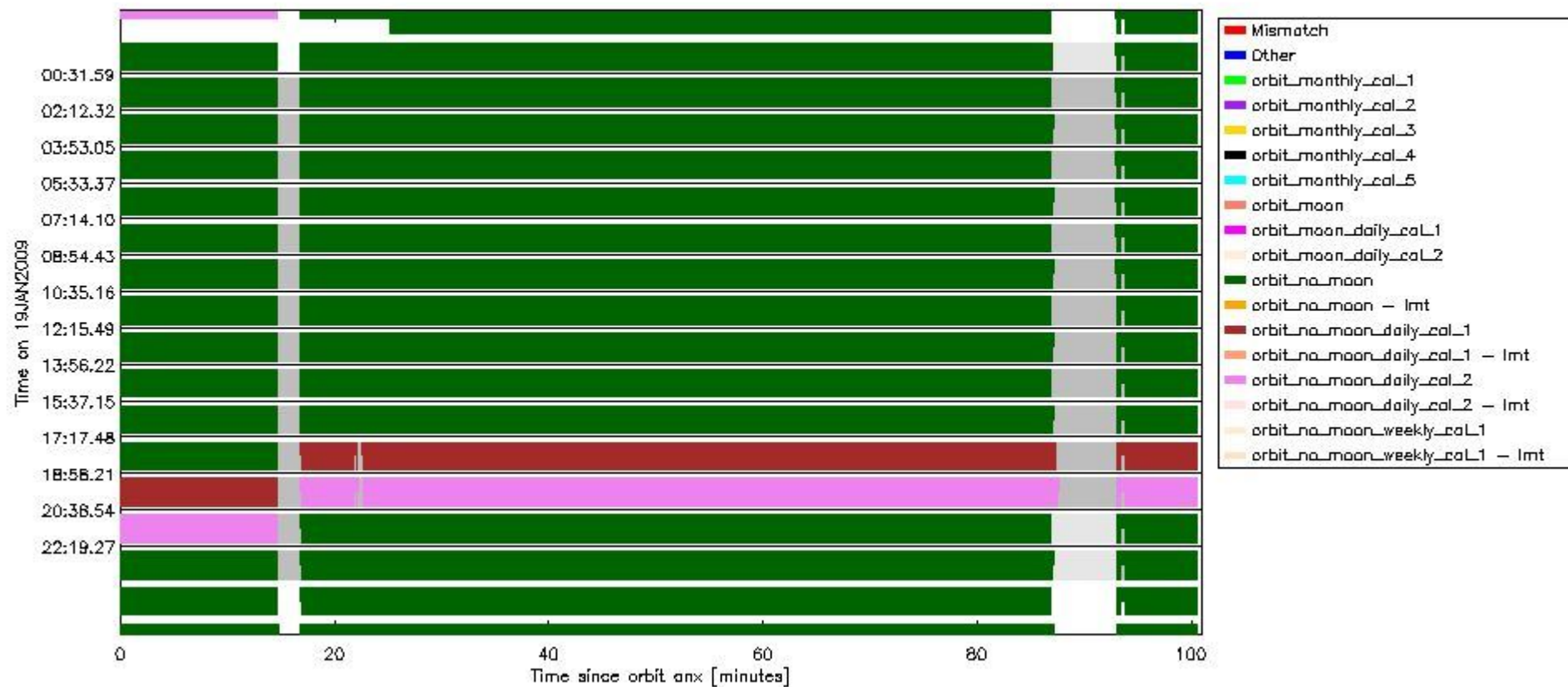


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090119\_5.PNG

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 19JAN2009.  
 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\_20090119\_6.PNG

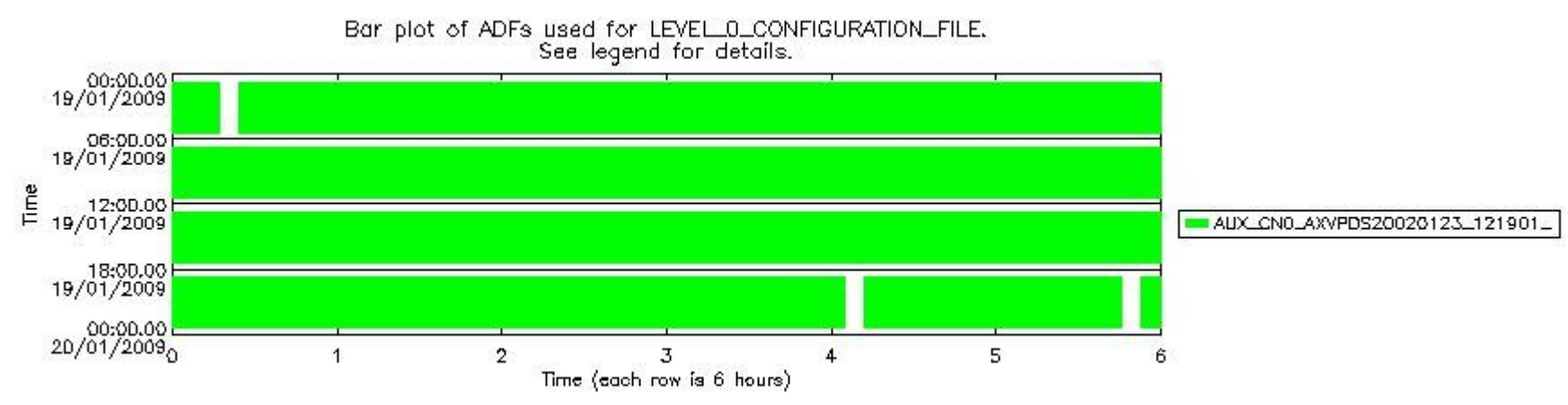
## 0.4 ADF monitoring

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

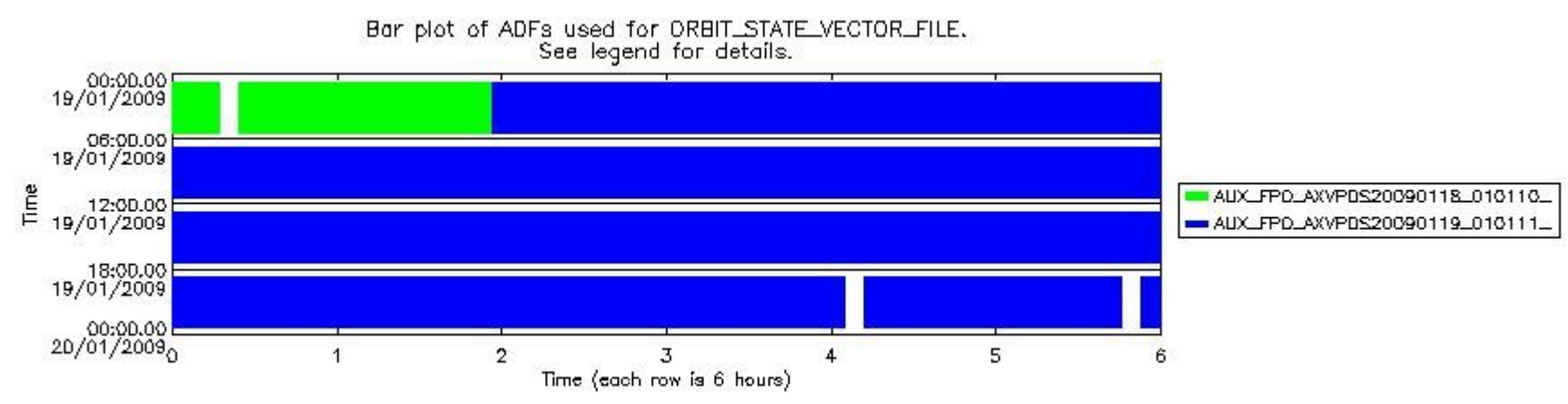
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

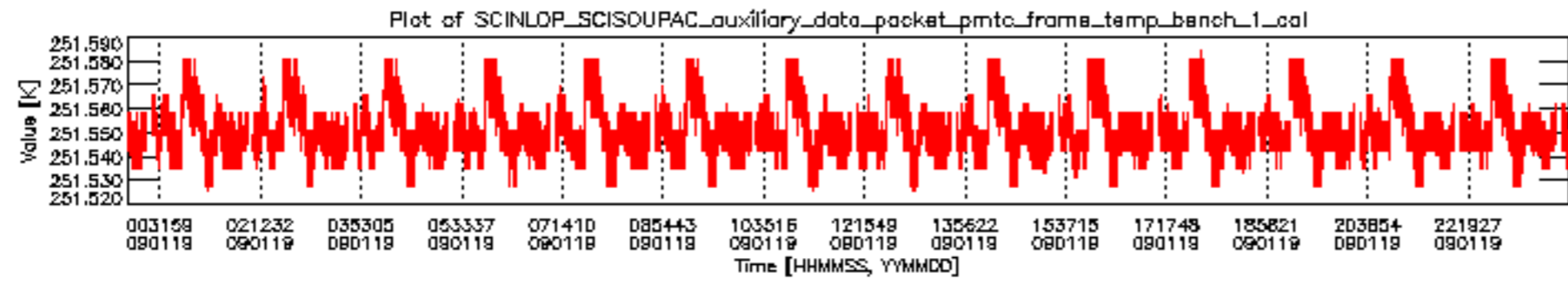
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20090118_010110_20090117_182100_20090127_212748</b>
2	<b>AUX_FPO_AXVPDS20090119_010111_20090118_192959_20090128_205611</b>



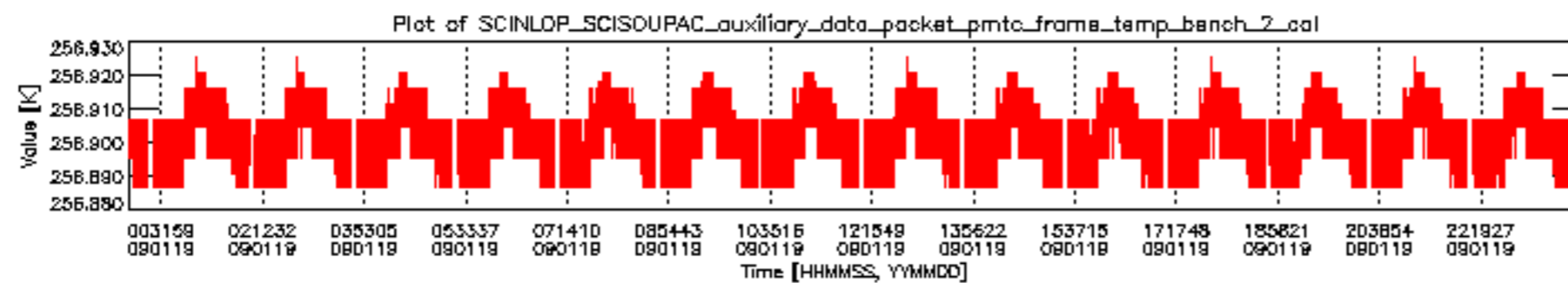
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090119\_7.PNG

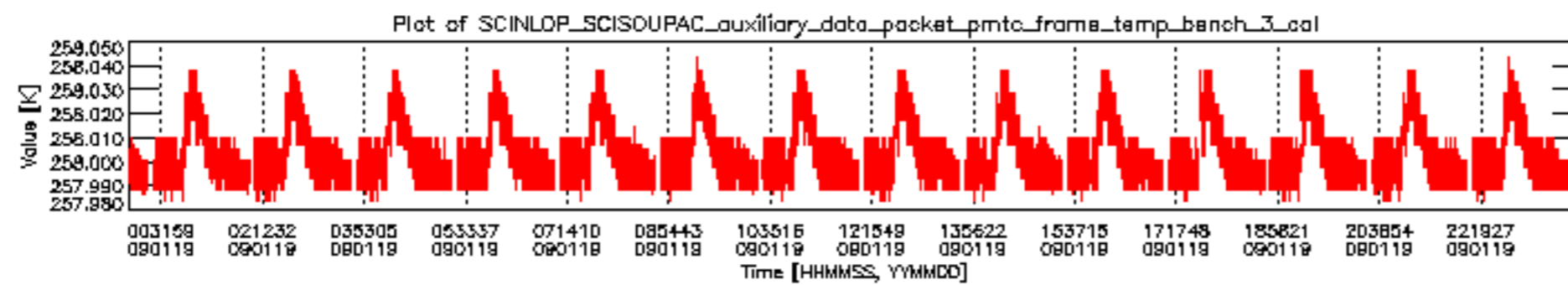


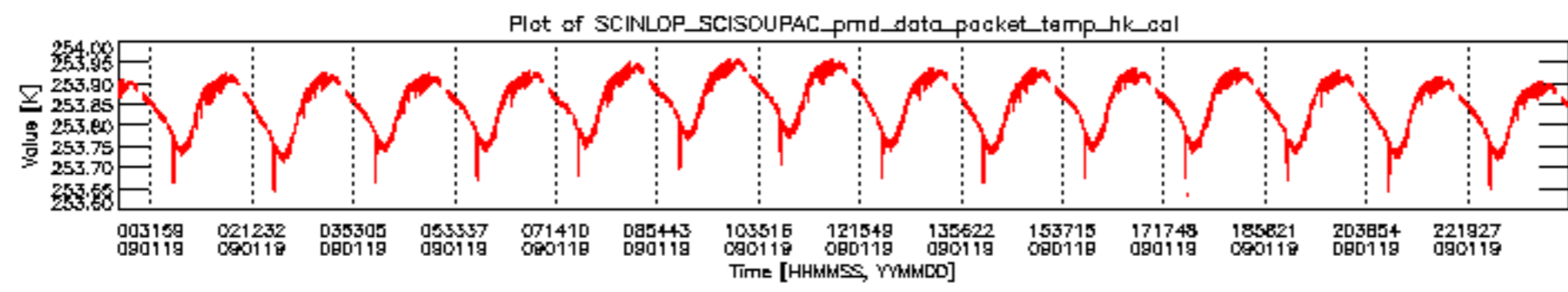
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090119\_8.PNG

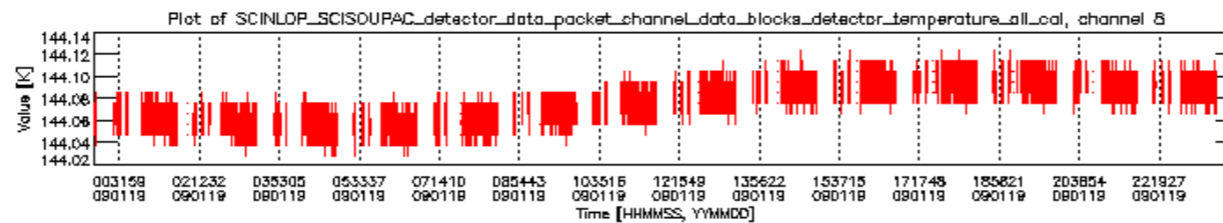
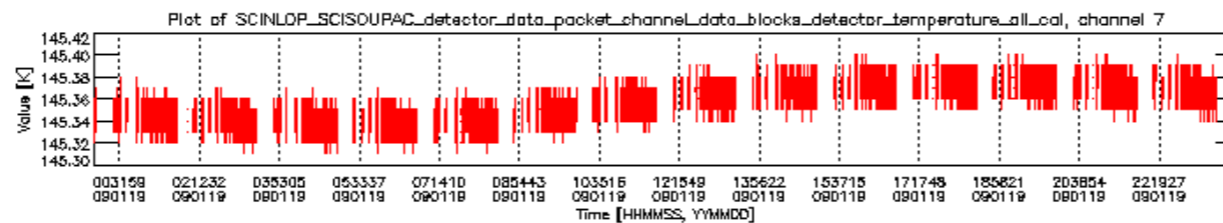
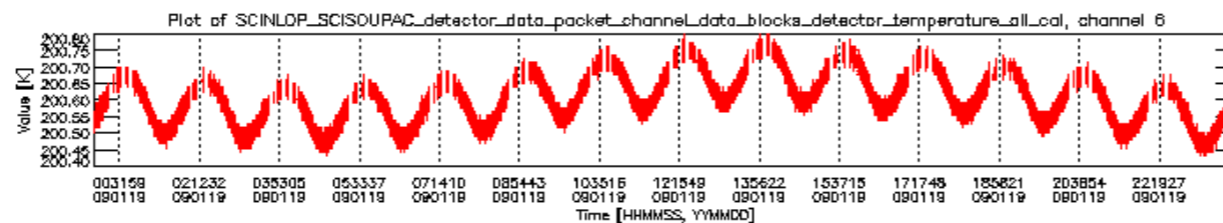
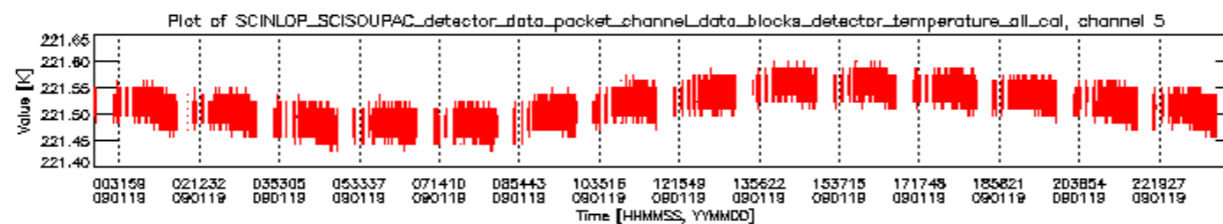
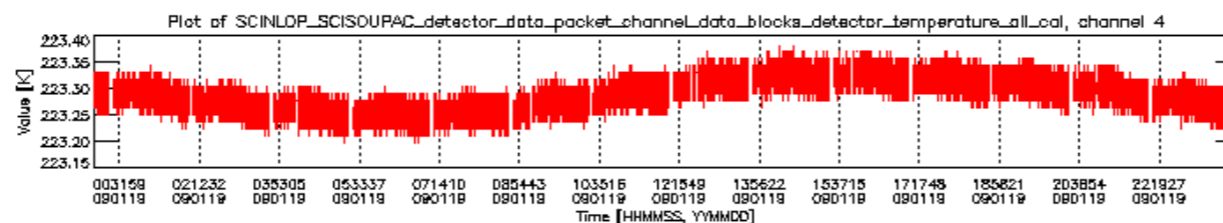
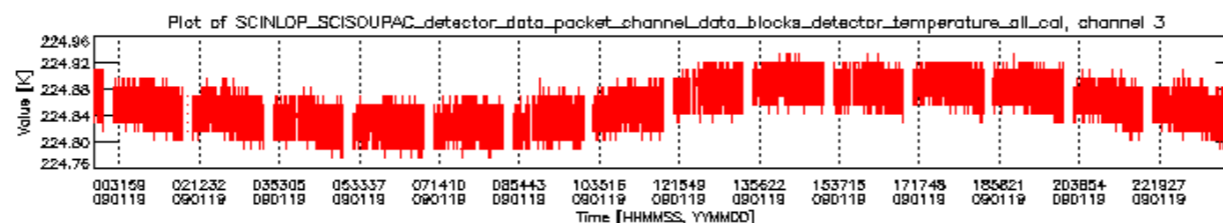
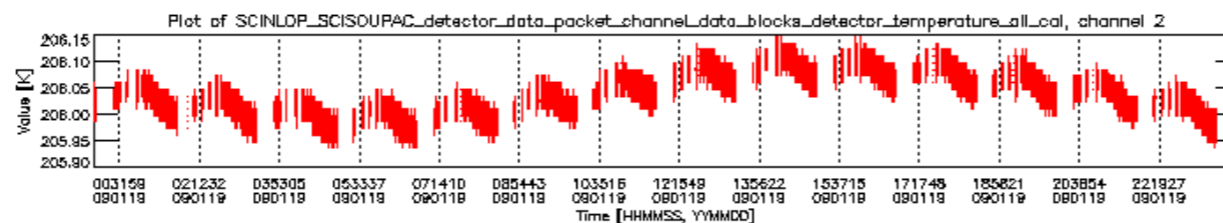
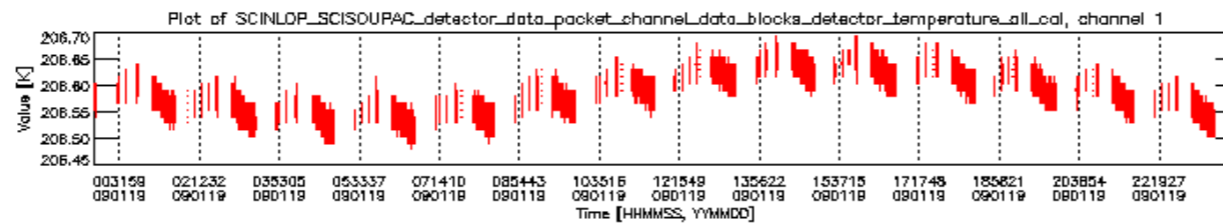


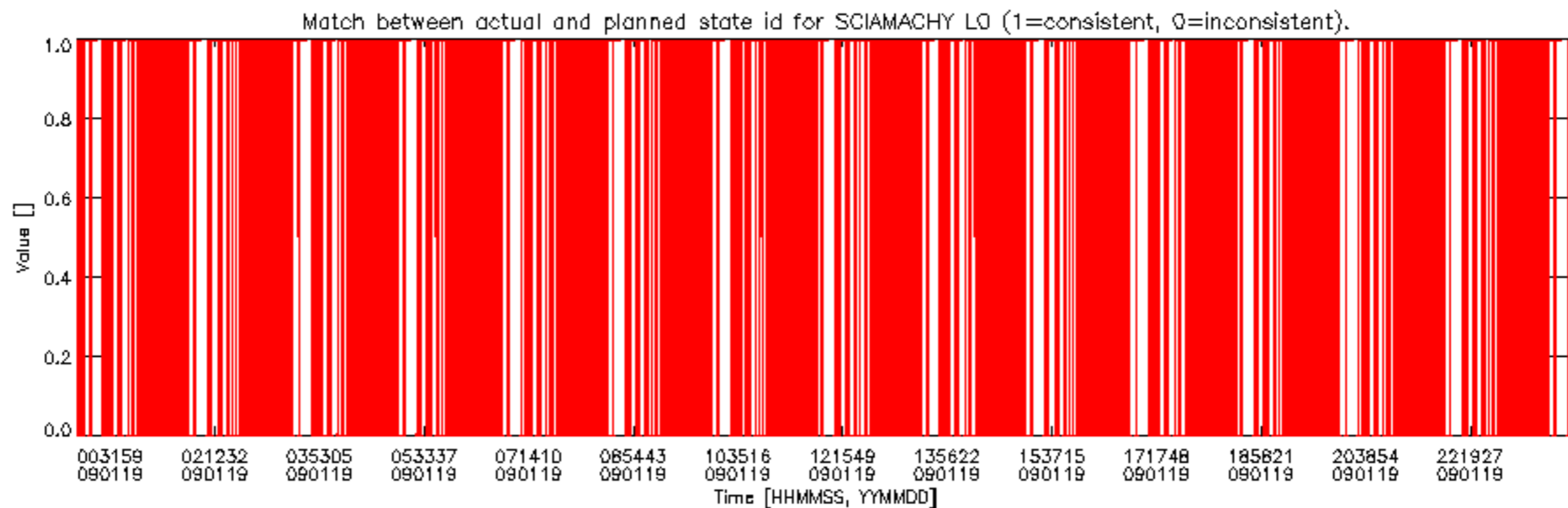
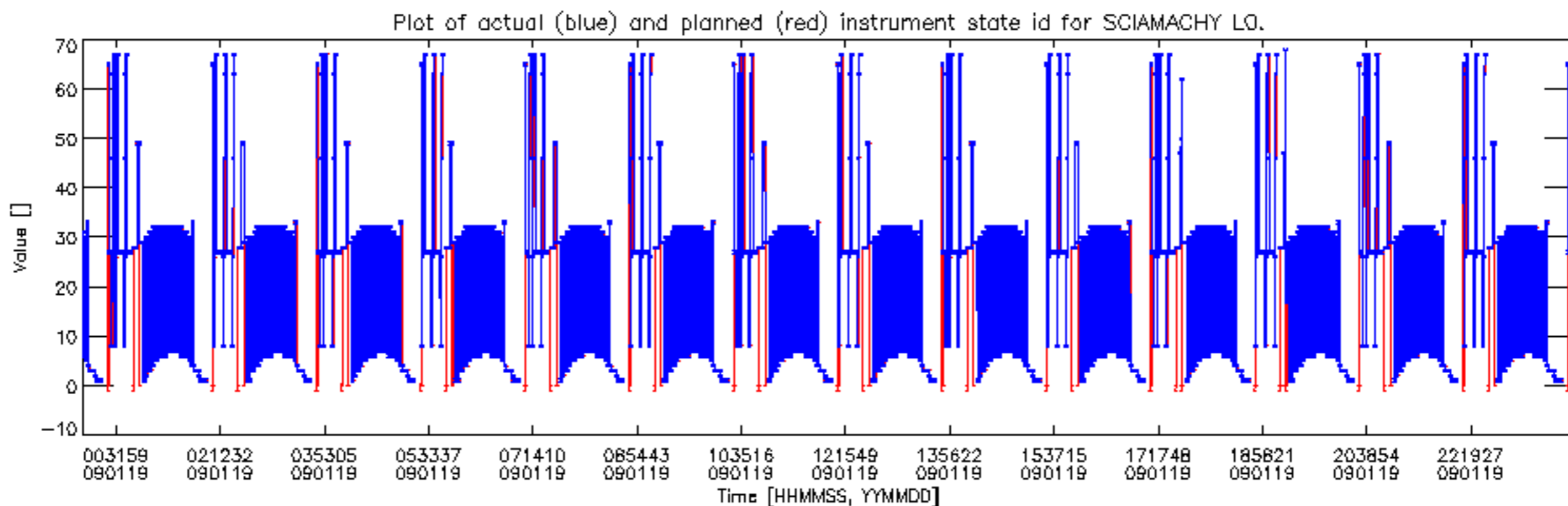




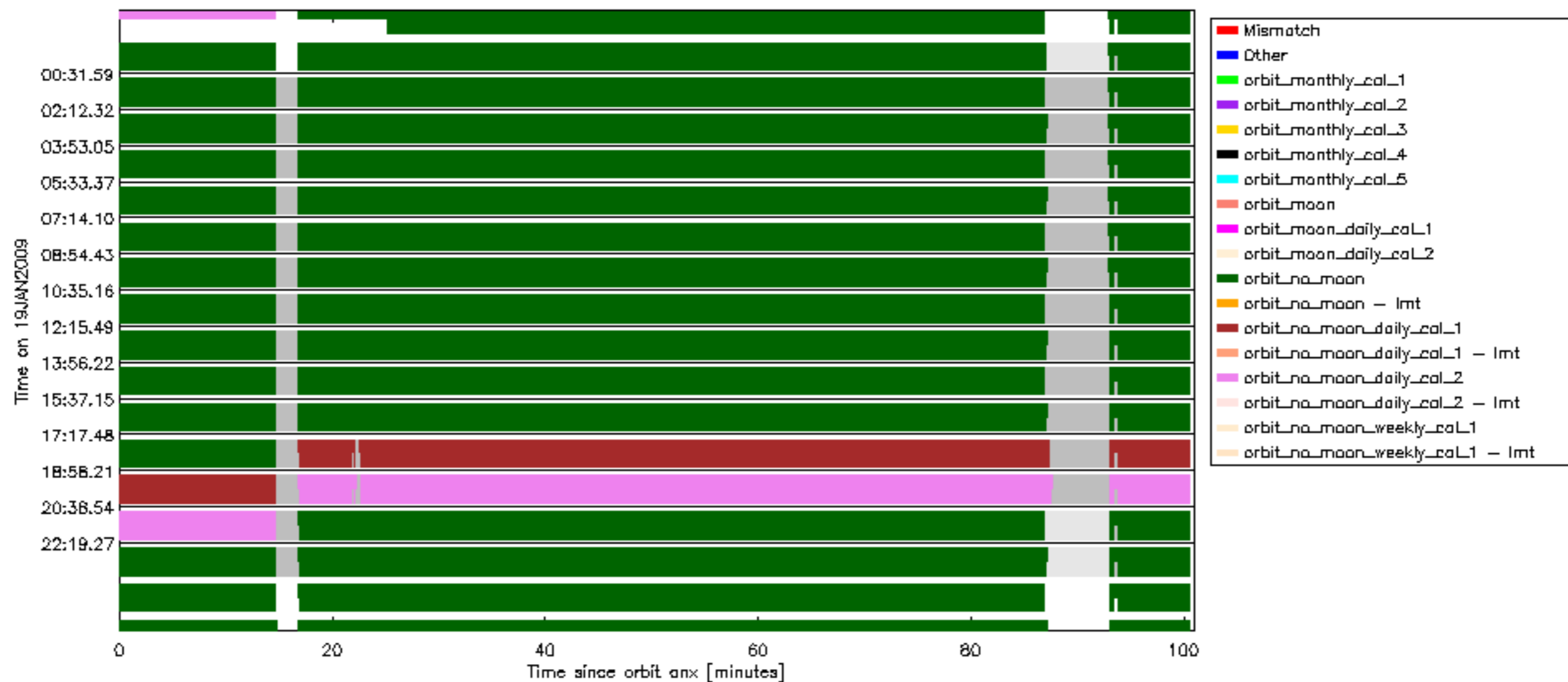


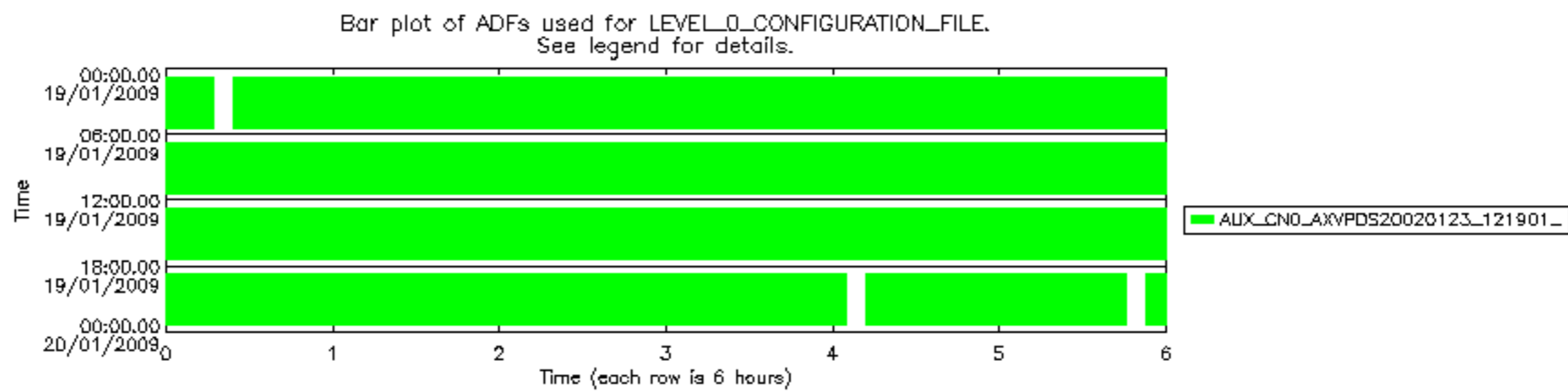






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 19JAN2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.





Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

