

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	22JAN2009 04:48:12
Data source version	KSPT_L0/4303-N
Processing scope for products	18JAN2009 00:00:00 to 19JAN2009 00:00:00
Start time of first product within scope	17JAN2009 23:15:23
Stop time of last product within scope	19JAN2009 00:17:11
Total number of level 0 products	16
Number of level 0 products with errors	0

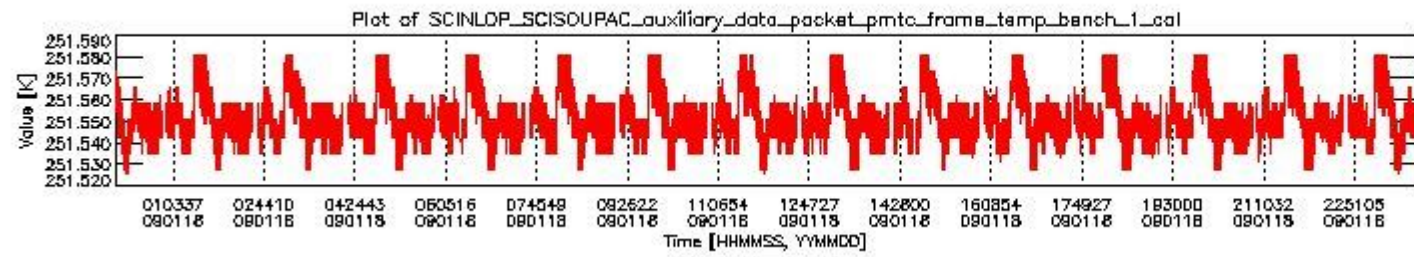
0.1.2 Summary per product

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

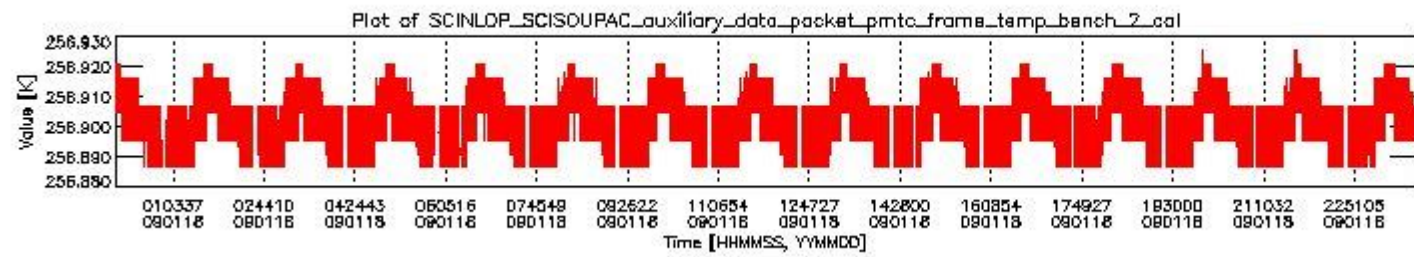
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090117_231523_000056102075_00373_35998_8313.N1	17JAN2009 23:15:23	18JAN2009 00:48:52	0	0	0	0	0
1	SCI_NL__OPNPDE20090118_005558_000044142075_00374_35999_8314.N1	18JAN2009 00:55:58	18JAN2009 02:09:32	0	0	0	0	0
2	SCI_NL__OPNPDE20090118_020932_000056752075_00375_36000_8315.N1	18JAN2009 02:09:32	18JAN2009 03:44:07	0	0	0	0	0
3	SCI_NL__OPNPDE20090118_034407_000061472075_00376_36001_8316.N1	18JAN2009 03:44:07	18JAN2009 05:26:34	0	0	0	0	0
4	SCI_NL__OPNPDE20090118_052538_000060362075_00377_36002_8317.N1	18JAN2009 05:25:38	18JAN2009 07:06:14	0	0	0	0	0
5	SCI_NL__OPNPDK20090118_070614_000040452075_00378_36003_0483.N1	18JAN2009 07:06:14	18JAN2009 08:13:39	0	0	0	0	0
6	SCI_NL__OPNPDK20090118_081230_000060482075_00379_36004_0484.N1	18JAN2009 08:12:30	18JAN2009 09:53:18	0	0	0	0	0
7	SCI_NL__OPNPDK20090118_095210_000060912075_00380_36005_0485.N1	18JAN2009 09:52:10	18JAN2009 11:33:41	0	0	0	0	0
8	SCI_NL__OPNPDK20090118_113245_000060362075_00381_36006_0486.N1	18JAN2009 11:32:45	18JAN2009 13:13:21	0	0	0	0	0
9	SCI_NL__OPNPDK20090118_131225_000060362075_00382_36007_0487.N1	18JAN2009 13:12:25	18JAN2009 14:53:01	0	0	0	0	0
10	SCI_NL__OPNPDK20090118_145109_000058982075_00383_36008_0488.N1	18JAN2009 14:51:09	18JAN2009 16:29:27	0	0	0	0	0
11	SCI_NL__OPNPDK20090118_162734_000059802075_00384_36009_0489.N1	18JAN2009 16:27:34	18JAN2009 18:07:14	0	0	0	0	0
12	SCI_NL__OPNPDK20090118_180618_000058182075_00385_36010_0490.N1	18JAN2009 18:06:18	18JAN2009 19:43:16	0	0	0	0	0
13	SCI_NL__OPNPDE20090118_194316_000041862075_00386_36011_8318.N1	18JAN2009 19:43:16	18JAN2009 20:53:02	0	0	0	0	0
14	SCI_NL__OPNPDE20090118_205302_000062012075_00386_36011_8319.N1	18JAN2009 20:53:02	18JAN2009 22:36:22	0	0	0	0	0
15	SCI_NL__OPNPDE20090118_224342_000056082075_00387_36012_8320.N1	18JAN2009 22:43:42	19JAN2009 00:17:11	0	0	0	0	0

0.2 Product Quality Indicators

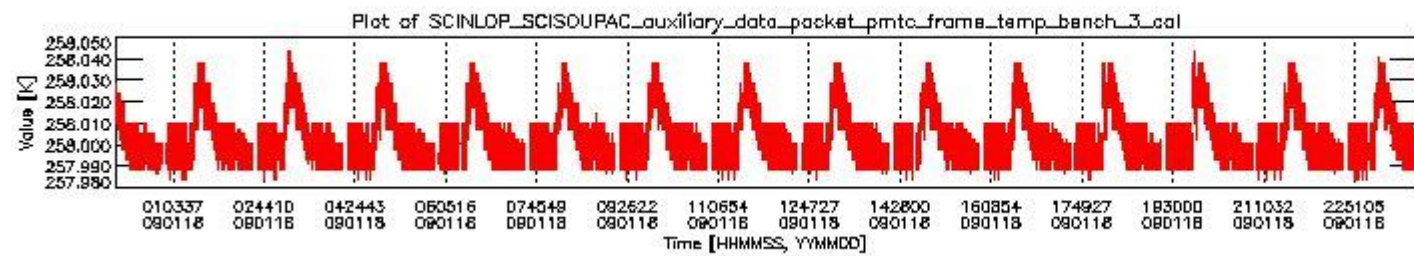
This section shows information about product quality, currently temperatures.



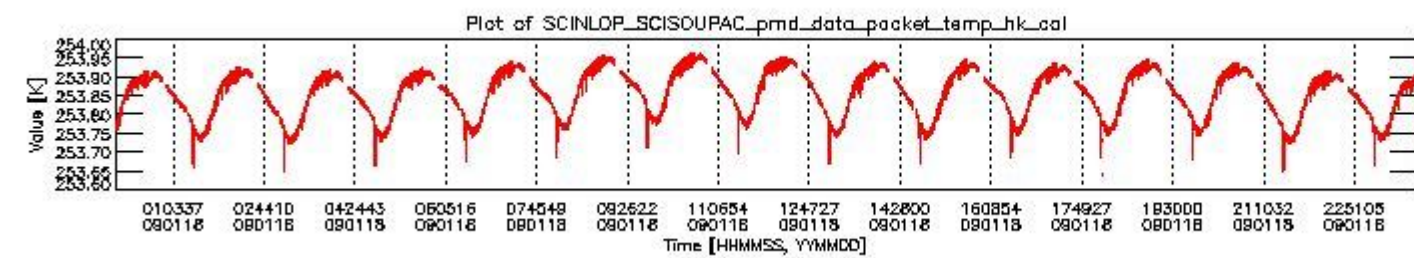
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090118_0.PNG



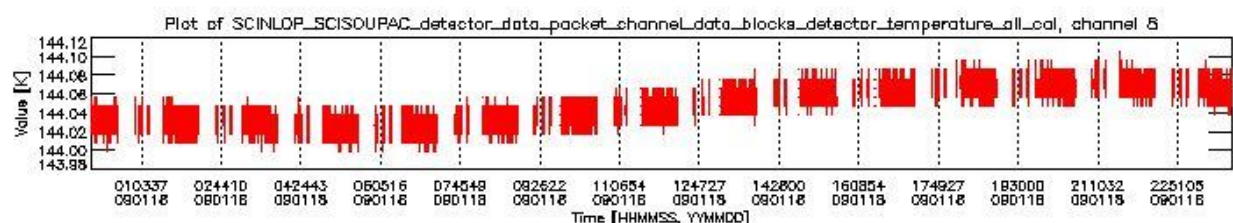
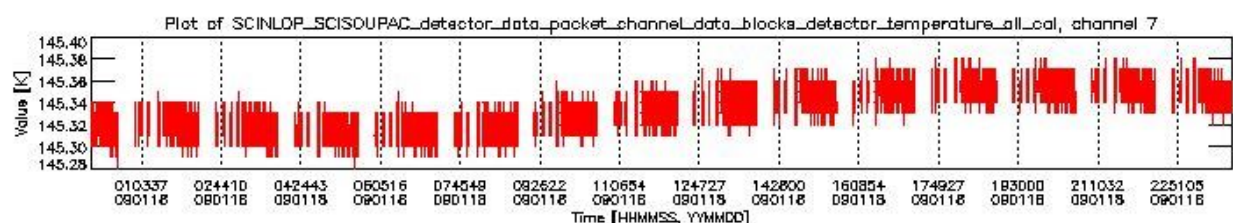
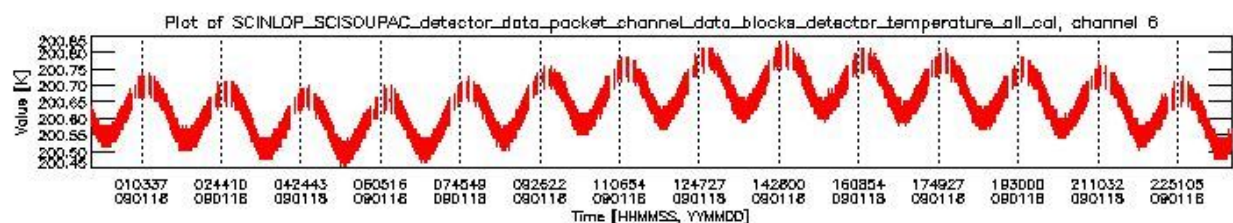
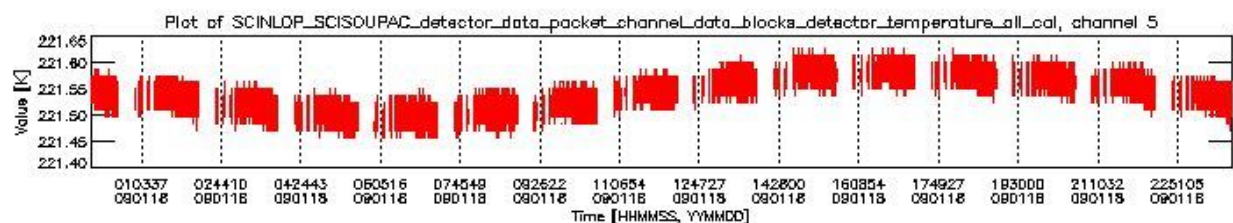
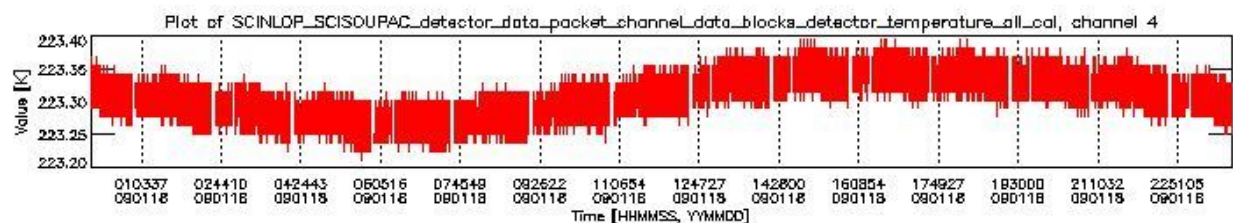
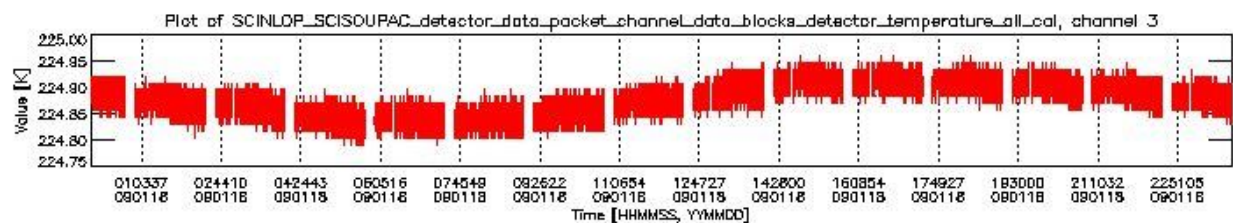
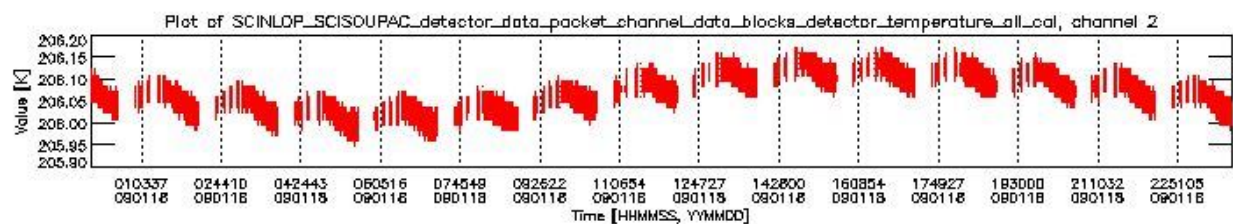
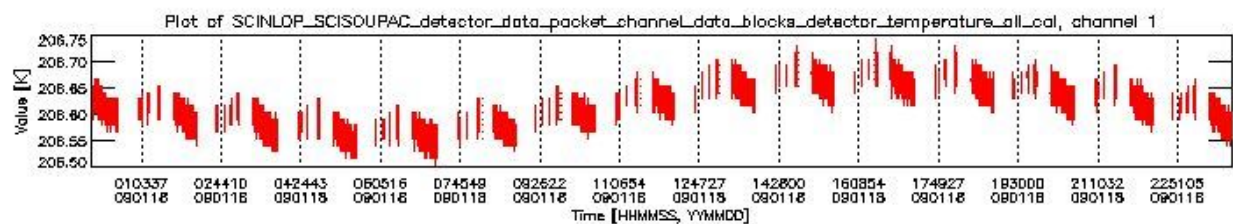
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090118_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20090118_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20090118_3.PNG

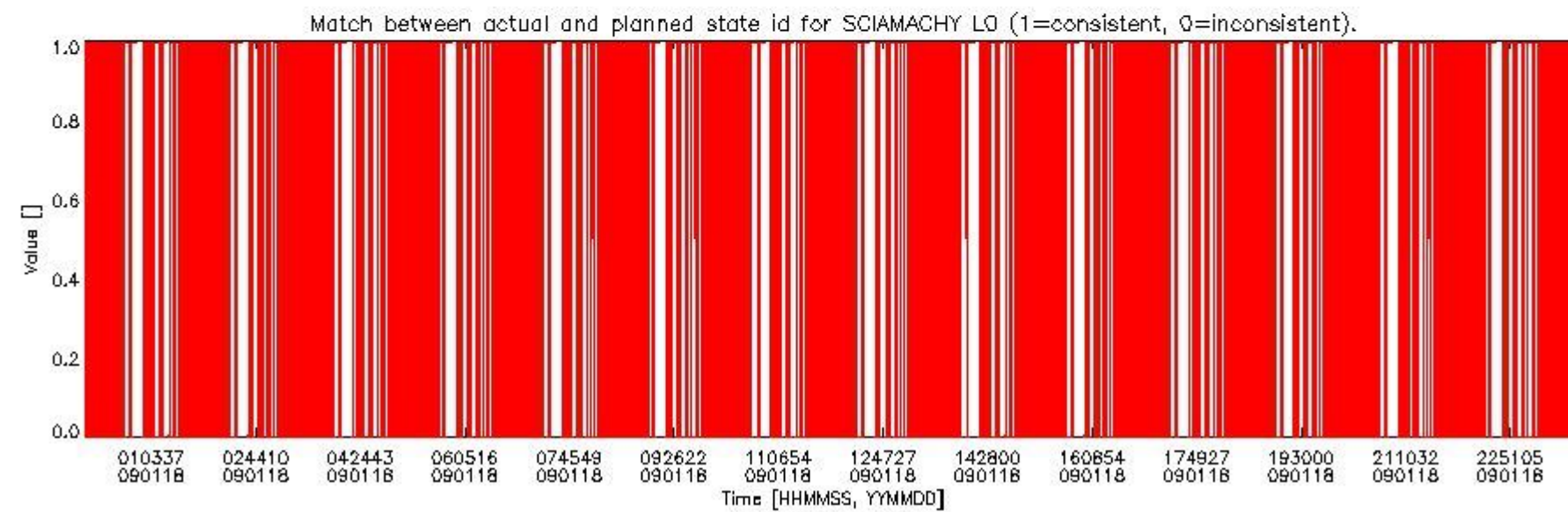
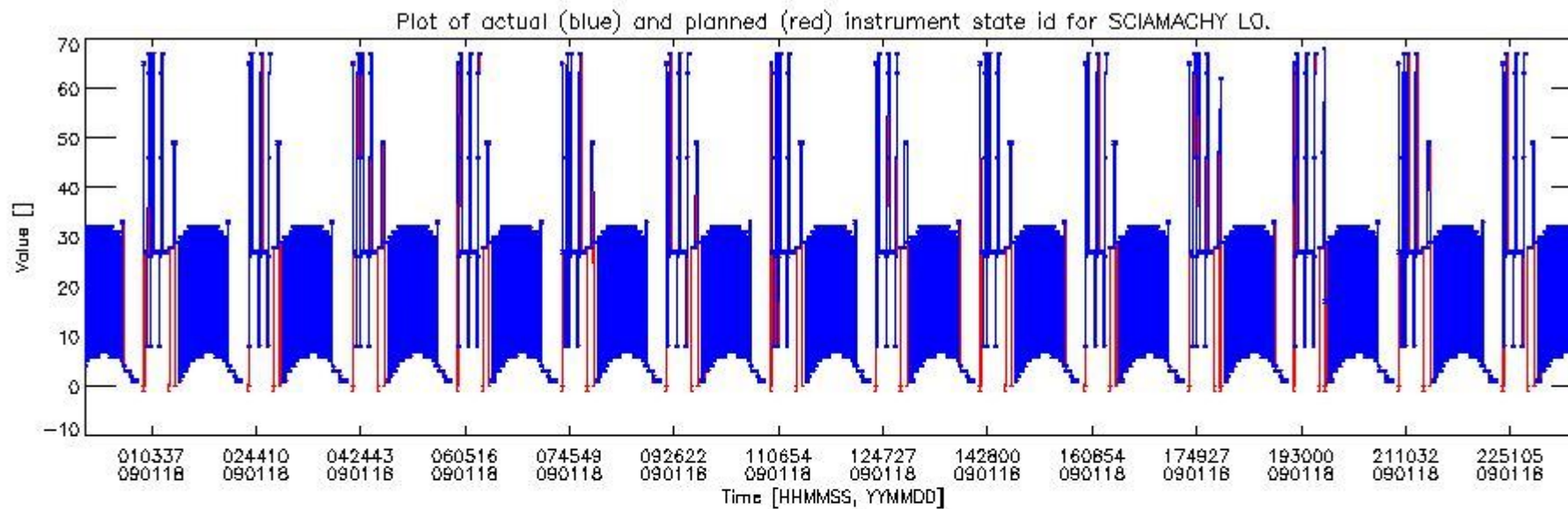


0.3 State monitoring

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: **55479**

#	Actual time	Actual value	Planned time	Planned value
0	18JAN2009 00:00:07.441078	32	18JAN2009 00:00:07.441078	4
1	18JAN2009 00:00:08.066100	32	18JAN2009 00:00:08.066100	4
2	18JAN2009 00:00:08.441073	32	18JAN2009 00:00:08.441073	4
3	18JAN2009 00:00:08.816086	32	18JAN2009 00:00:08.816086	4
4	18JAN2009 00:00:09.378585	32	18JAN2009 00:00:09.378585	4
5	18JAN2009 00:00:09.753598	32	18JAN2009 00:00:09.753598	4
6	18JAN2009 00:00:10.128611	32	18JAN2009 00:00:10.128611	4
7	18JAN2009 00:00:10.503584	32	18JAN2009 00:00:10.503584	4
8	18JAN2009 00:00:11.066084	32	18JAN2009 00:00:11.066084	4
9	18JAN2009 00:00:11.441097	32	18JAN2009 00:00:11.441097	4
10	18JAN2009 00:00:11.816110	32	18JAN2009 00:00:11.816110	4
11	18JAN2009 00:00:12.191083	32	18JAN2009 00:00:12.191083	4
12	18JAN2009 00:00:12.441091	32	18JAN2009 00:00:12.441091	4
13	18JAN2009 00:00:12.753582	32	18JAN2009 00:00:12.753582	4
14	18JAN2009 00:00:13.128595	32	18JAN2009 00:00:13.128595	4
15	18JAN2009 00:00:13.503608	32	18JAN2009 00:00:13.503608	4
16	18JAN2009 00:00:13.878581	32	18JAN2009 00:00:13.878581	4
17	18JAN2009 00:00:14.441080	32	18JAN2009 00:00:14.441080	4
18	18JAN2009 00:00:14.816093	32	18JAN2009 00:00:14.816093	4
19	18JAN2009 00:00:15.191106	32	18JAN2009 00:00:15.191106	4

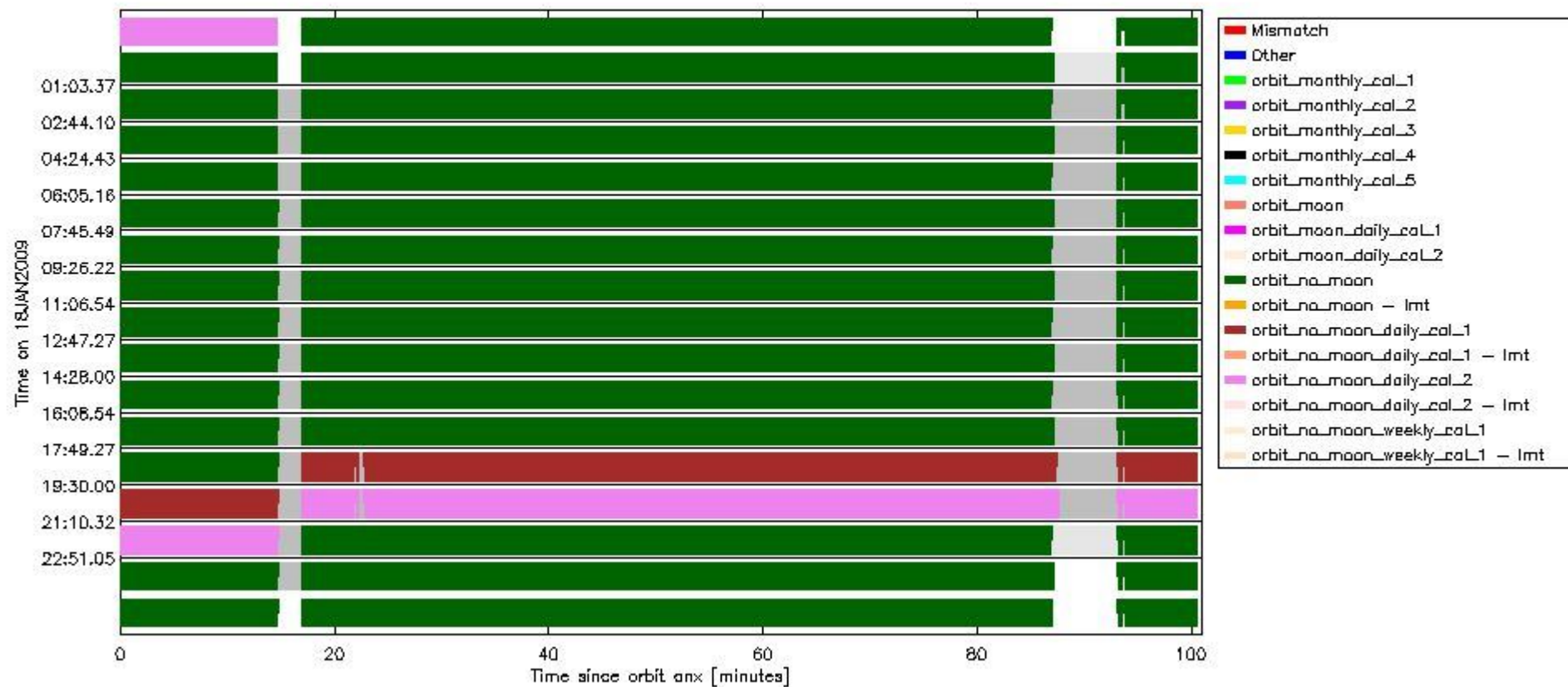


sciamachy_daily_report_level0_KSPT_L0_4303_N_20090118_5.PNG

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 18JAN2009.
 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_20090118_6.PNG

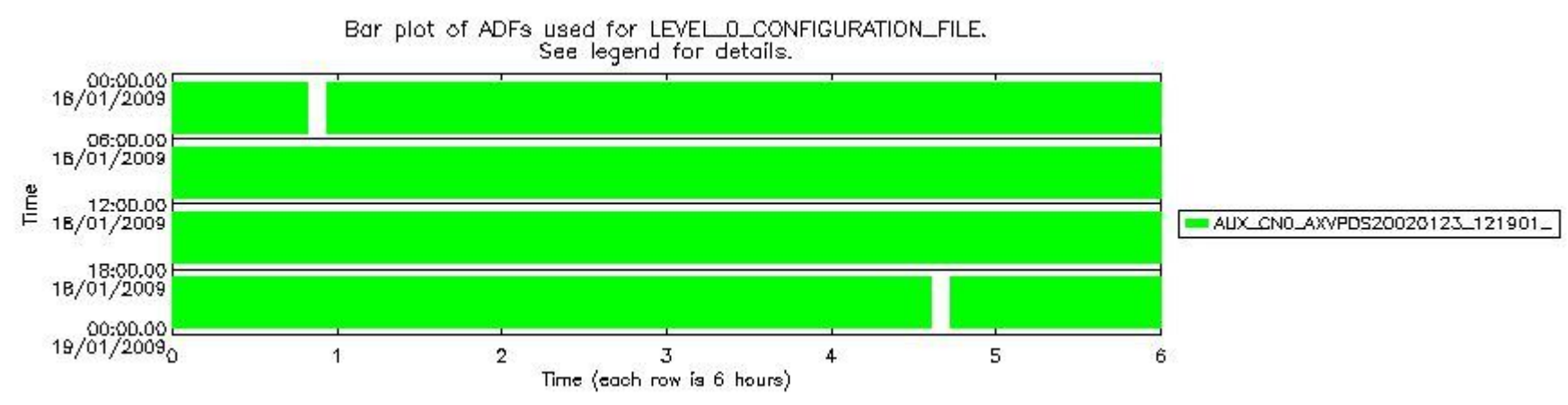
0.4 ADF monitoring

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

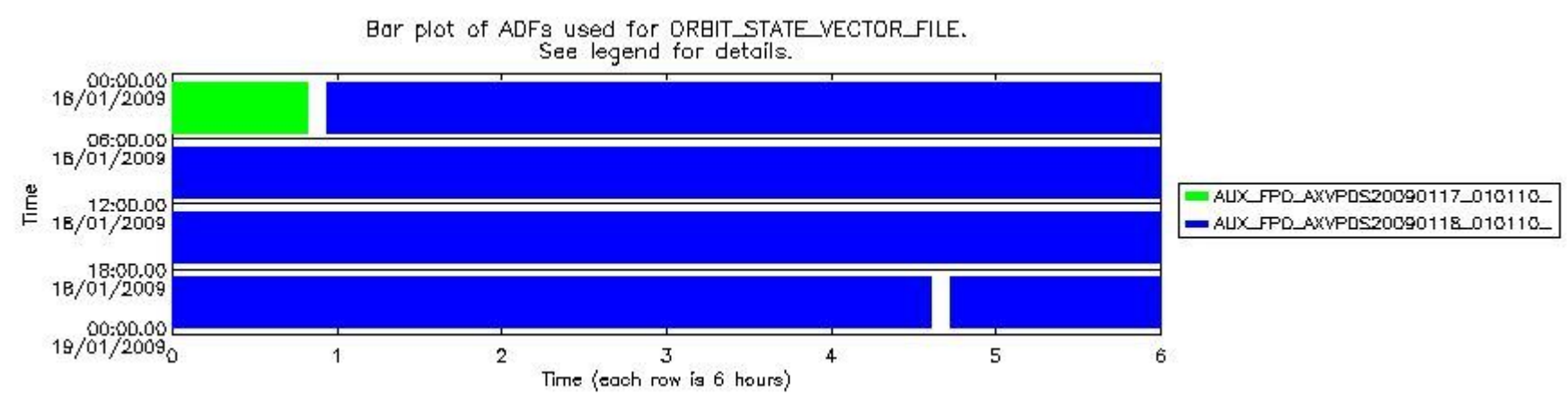
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

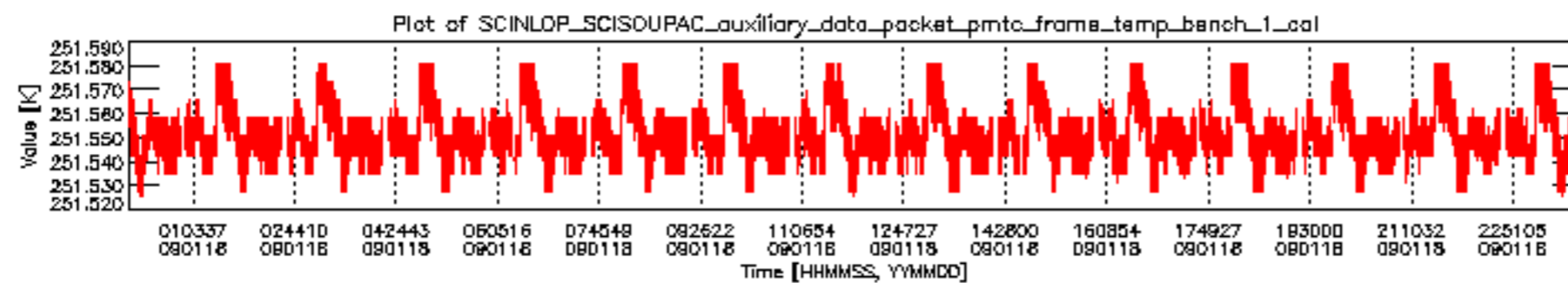
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20090117_010110_20090116_185237_20090126_201850
2	AUX_FPO_AXVPDS20090118_010110_20090117_182100_20090127_212748

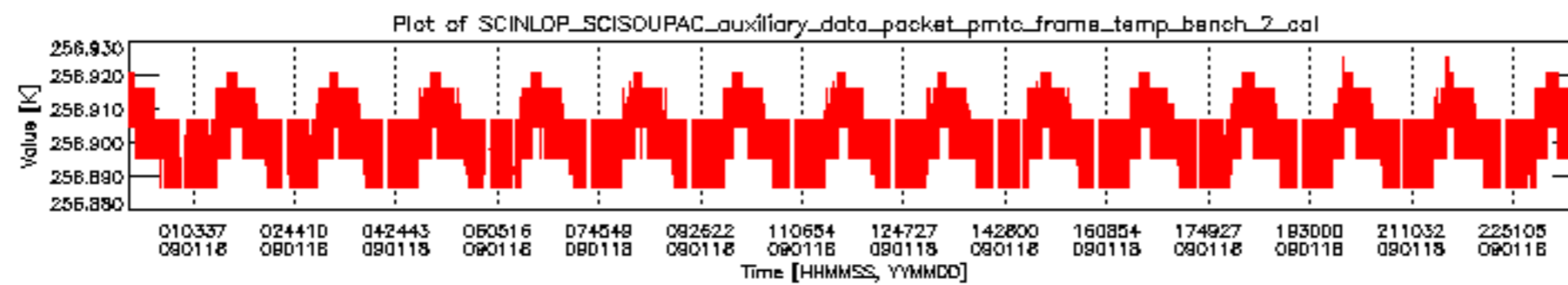


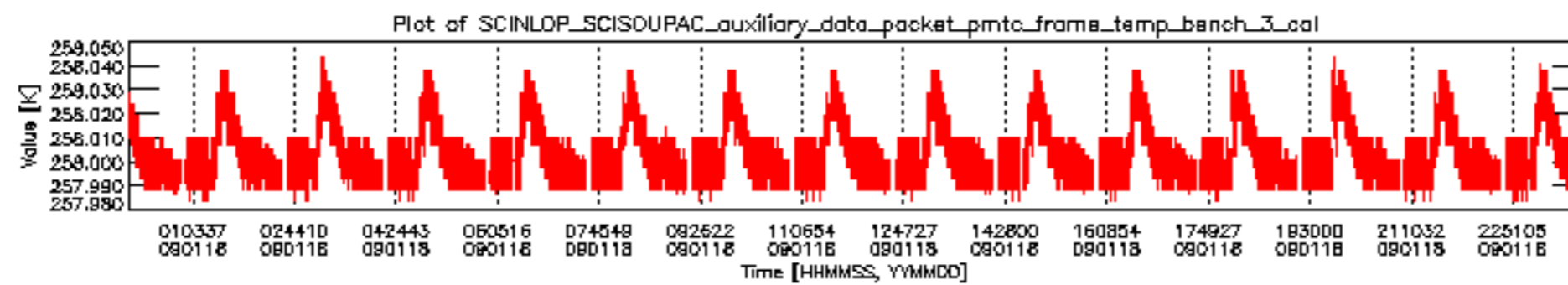
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090118_7.PNG

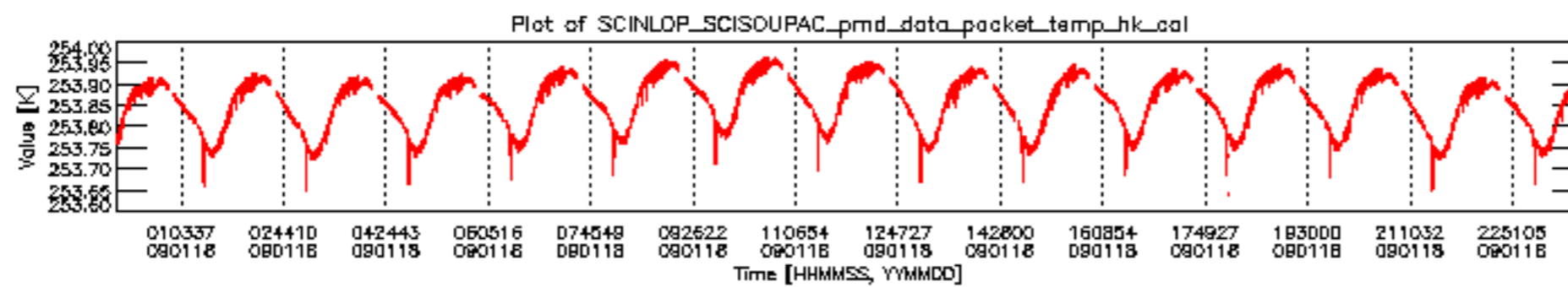


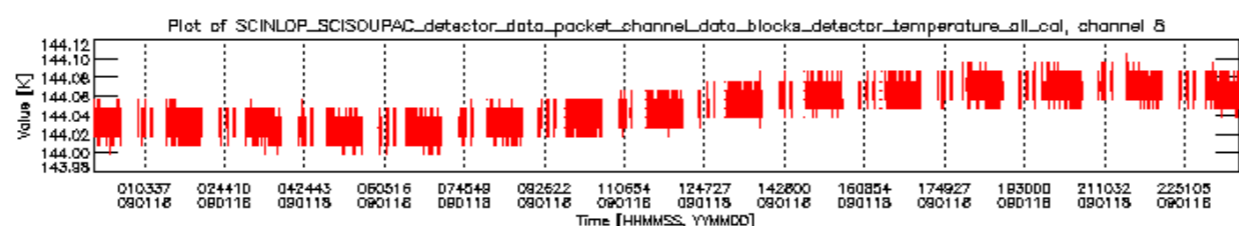
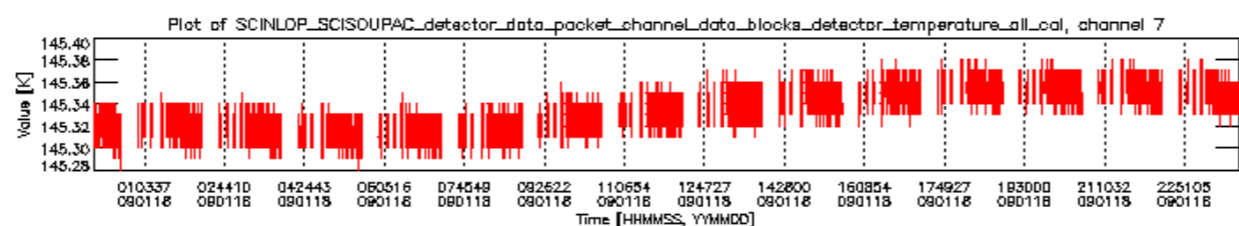
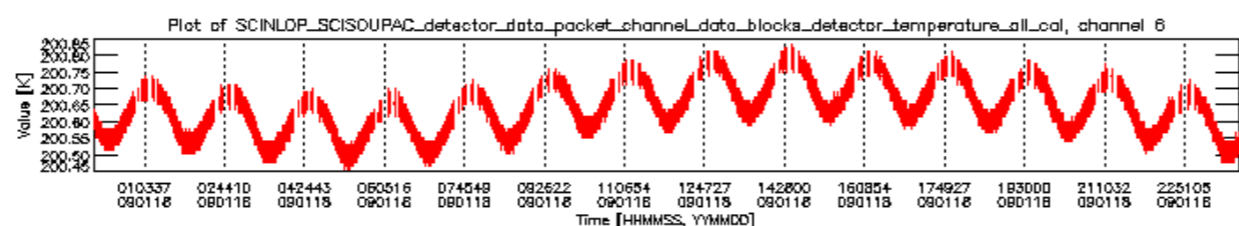
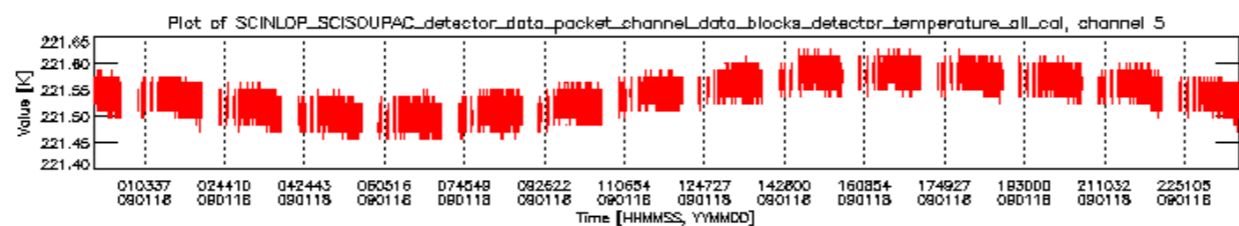
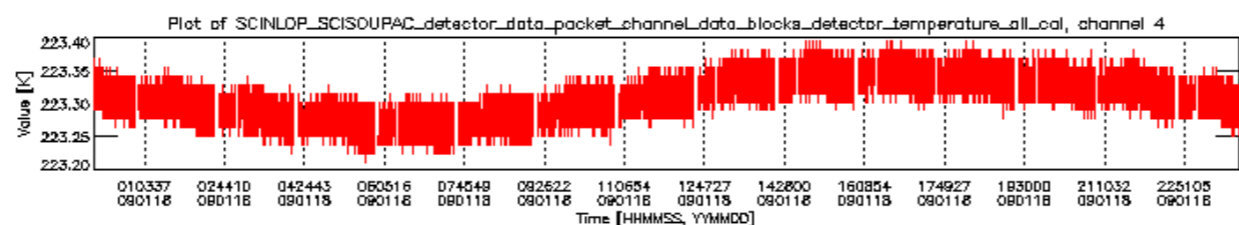
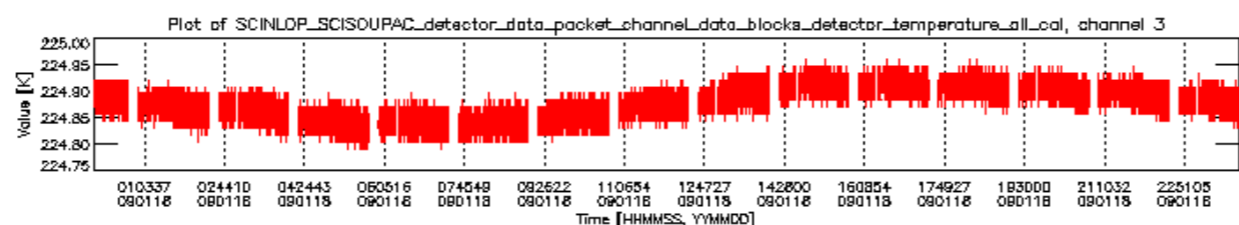
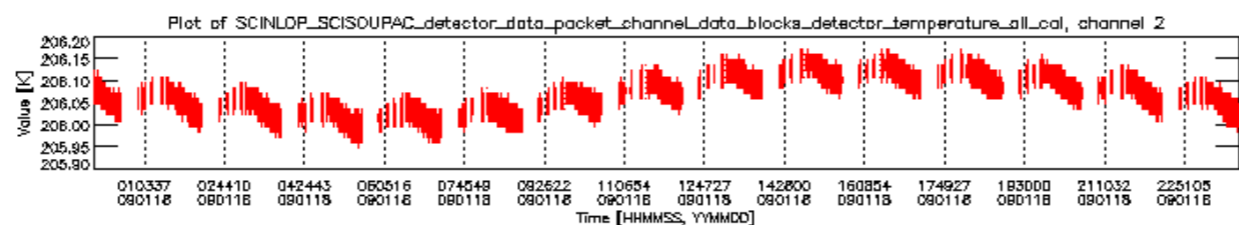
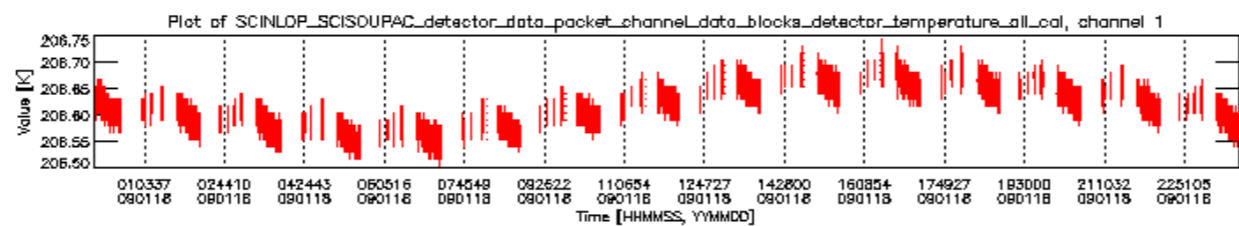
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090118_8.PNG

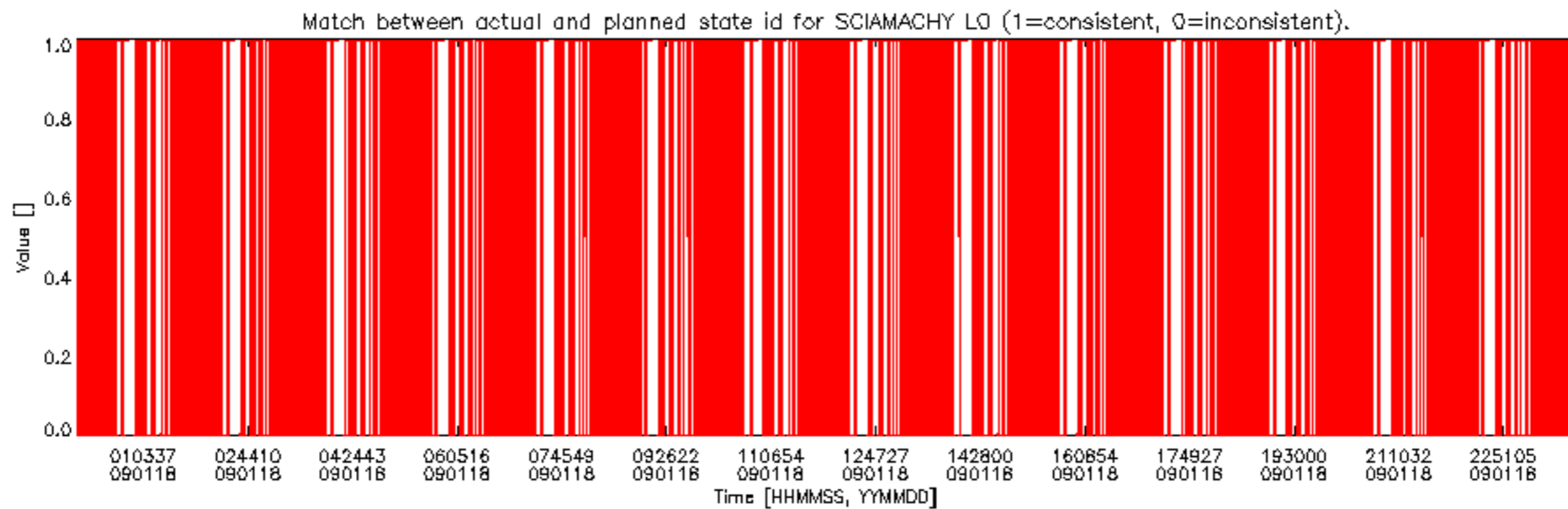
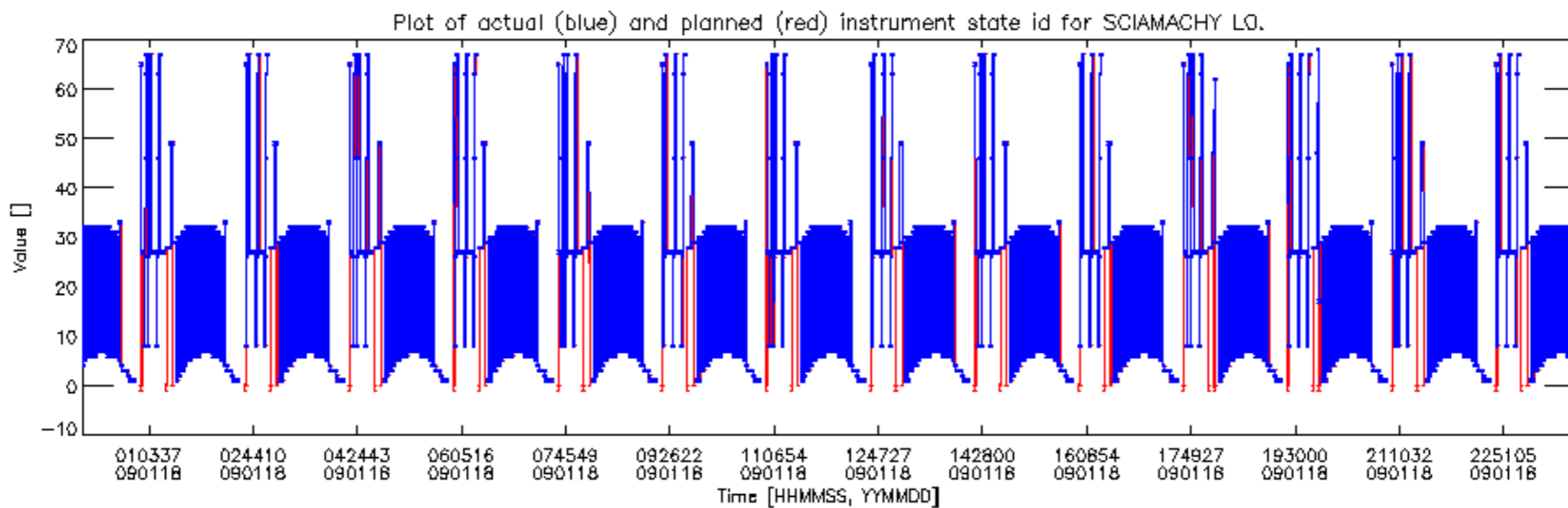




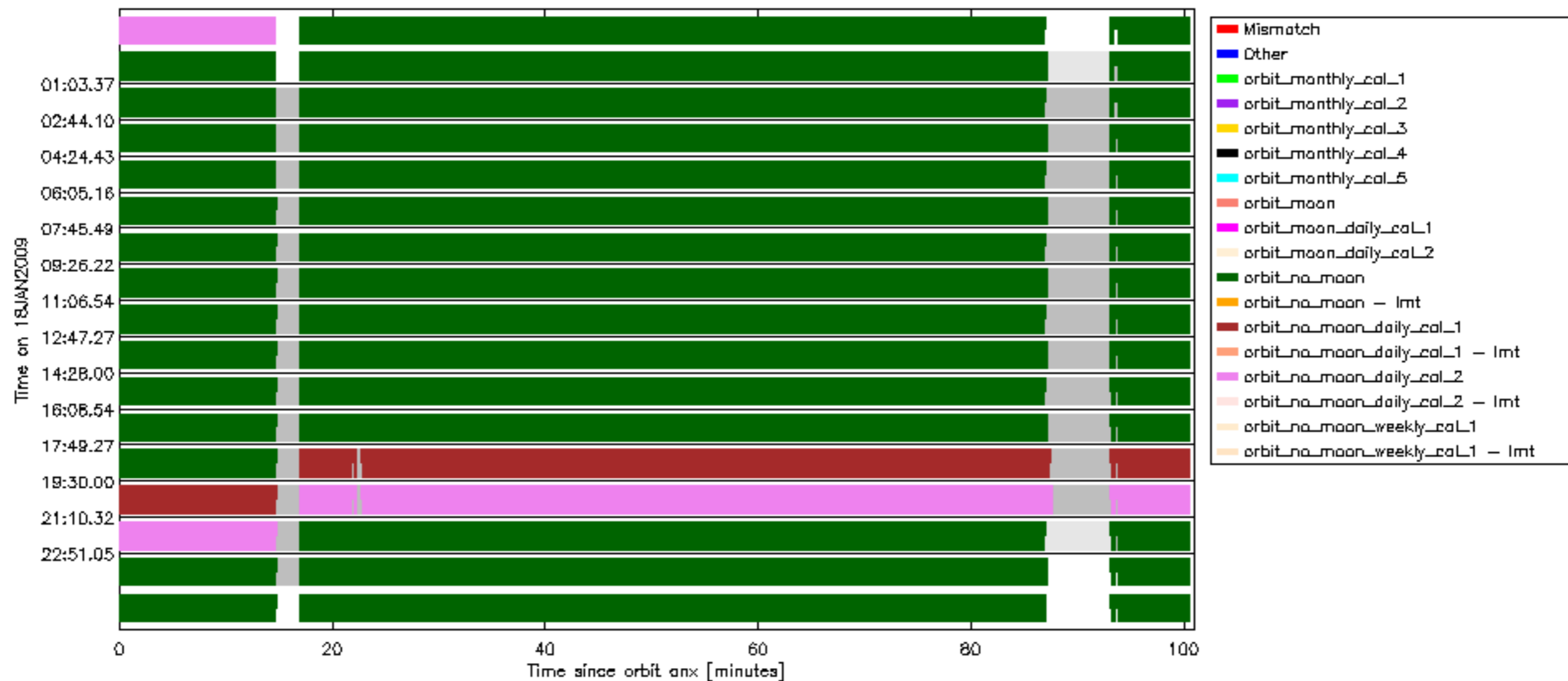


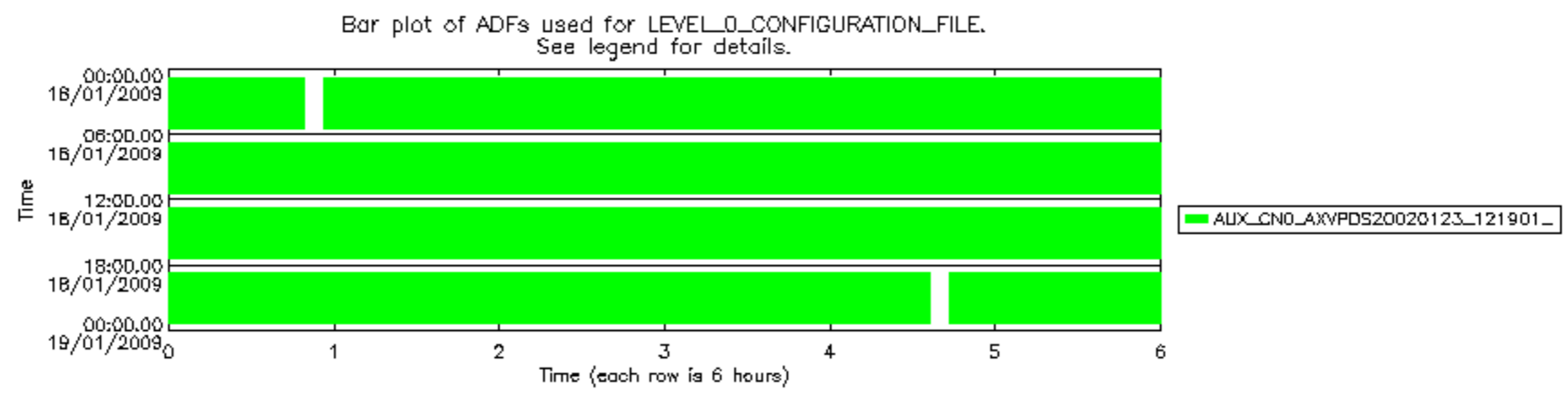






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
 The remaining colours indicate planned activities and/or special measurements.
 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.

