

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	21MAR2008 05:19:07
Data source version	KSPT_L0/4303-N
Processing scope for products	17MAR2008 00:00:00 to 18MAR2008 00:00:00
Start time of first product within scope	16MAR2008 22:49:48
Stop time of last product within scope	18MAR2008 00:07:54
Total number of level 0 products	15
Number of level 0 products with errors	4

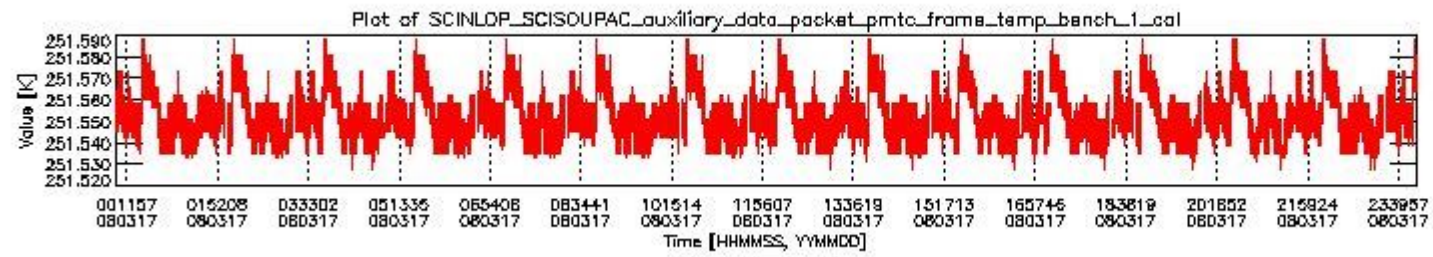
0.1.2 Summary per product

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

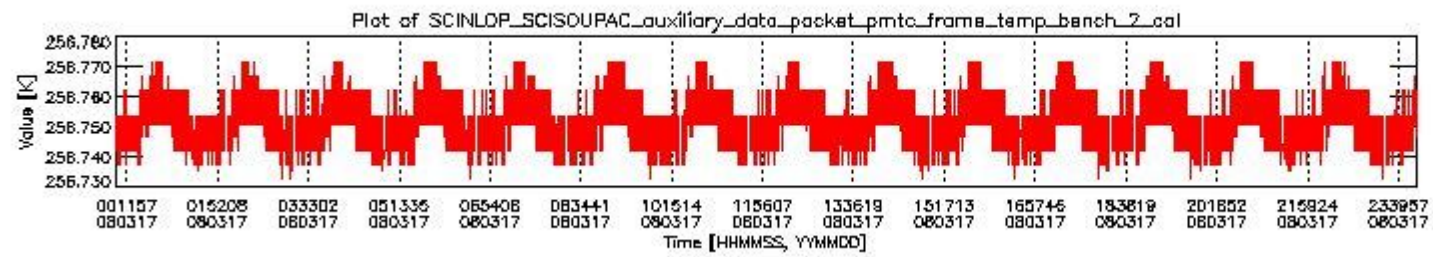
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080316_224948_000065892066_00488_31604_6268.N1	16MAR2008 22:49:48	17MAR2008 00:39:37	0	0	0	0	0
1	SCI_NL__OPNPDE20080317_003215_000064772066_00489_31605_6269.N1	17MAR2008 00:32:15	17MAR2008 02:20:13	1	0	1	0	0
2	SCI_NL__OPNPDE20080317_021455_000064772066_00490_31606_6270.N1	17MAR2008 02:14:55	17MAR2008 04:02:53	1	0	1	0	0
3	SCI_NL__OPNPDE20080317_035844_000064092066_00491_31607_6271.N1	17MAR2008 03:58:44	17MAR2008 05:45:33	1	0	1	0	0
4	SCI_NL__OPNPDK20080317_054015_000062842066_00492_31608_7675.N1	17MAR2008 05:40:15	17MAR2008 07:24:59	0	0	0	0	0
5	SCI_NL__OPNPDK20080317_072404_000059672066_00493_31609_7676.N1	17MAR2008 07:24:04	17MAR2008 09:03:30	0	0	0	0	0
6	SCI_NL__OPNPDK20080317_090235_000060912066_00494_31610_7677.N1	17MAR2008 09:02:35	17MAR2008 10:44:06	0	0	0	0	0
7	SCI_NL__OPNPDK20080317_104406_000059112066_00495_31611_7678.N1	17MAR2008 10:44:06	17MAR2008 12:22:37	0	0	0	0	0
8	SCI_NL__OPNPDK20080317_122032_000059802066_00496_31612_7679.N1	17MAR2008 12:20:32	17MAR2008 14:00:12	0	0	0	0	0
9	SCI_NL__OPNPDK20080317_135903_000061042066_00497_31613_7680.N1	17MAR2008 13:59:03	17MAR2008 15:40:48	0	0	0	0	0
10	SCI_NL__OPNPDK20080317_153843_000058042066_00498_31614_7681.N1	17MAR2008 15:38:43	17MAR2008 17:15:27	0	0	0	0	0
11	SCI_NL__OPNPDK20080317_171527_000059592066_00499_31615_7682.N1	17MAR2008 17:15:27	17MAR2008 18:54:46	0	0	0	0	0
12	SCI_NL__OPNPDK20080317_185446_000060522066_00500_31616_7683.N1	17MAR2008 18:54:46	17MAR2008 20:35:38	0	0	0	0	0
13	SCI_NL__OPNPDK20080317_203320_000063412066_00501_31617_7684.N1	17MAR2008 20:33:20	17MAR2008 22:19:01	0	0	0	0	0
14	SCI_NL__OPNPDE20080317_221805_000065892067_00001_31618_6275.N1	17MAR2008 22:18:05	18MAR2008 00:07:54	1	0	1	0	0

0.2 Product Quality Indicators

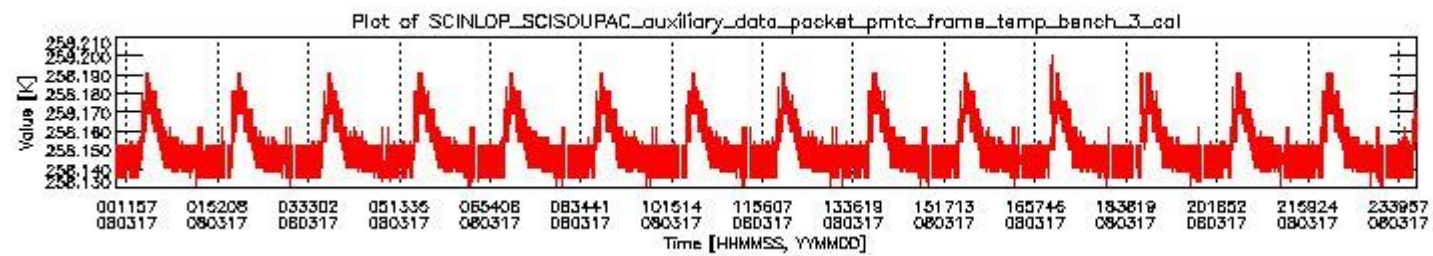
This section shows information about product quality, currently temperatures.



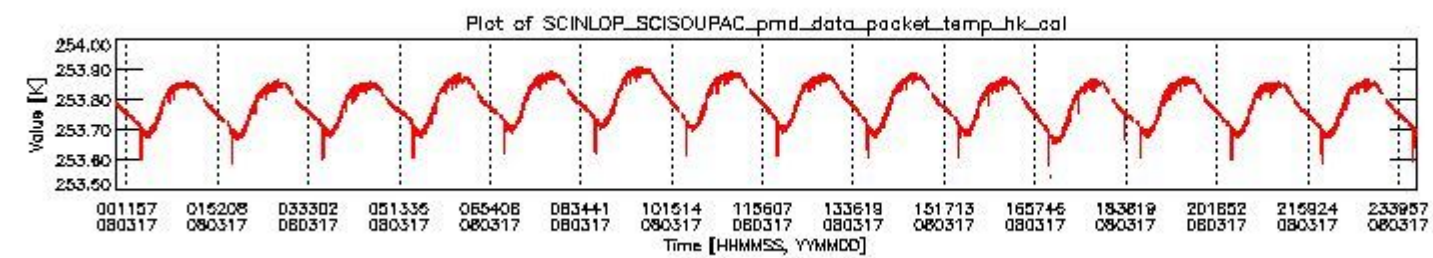
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080317_0.PNG



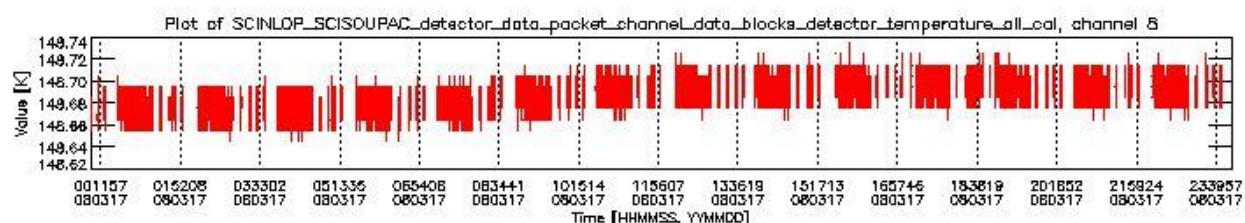
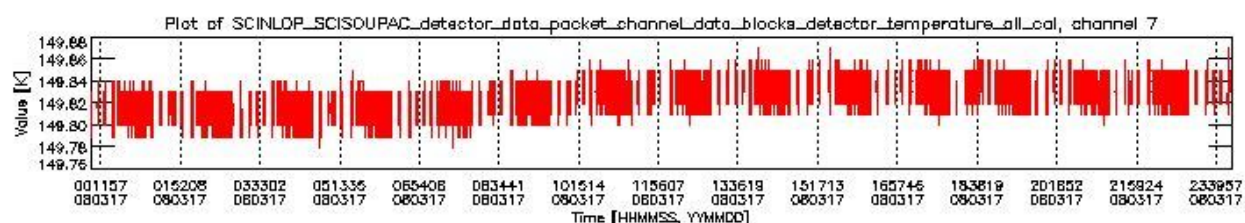
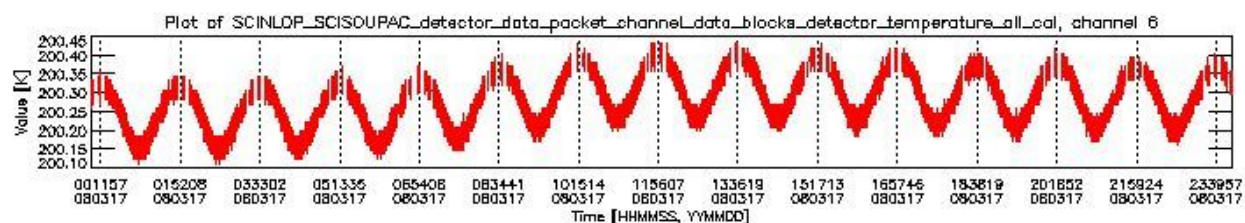
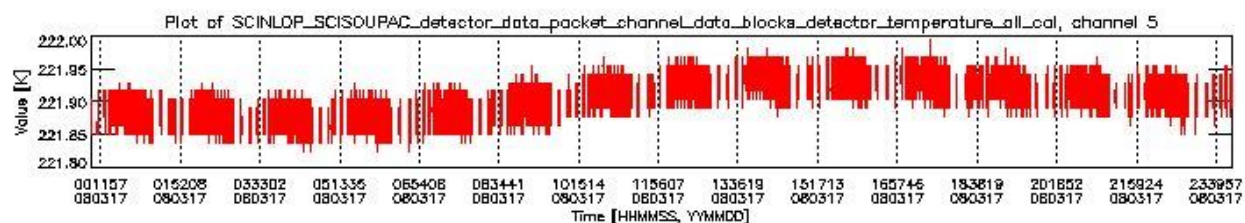
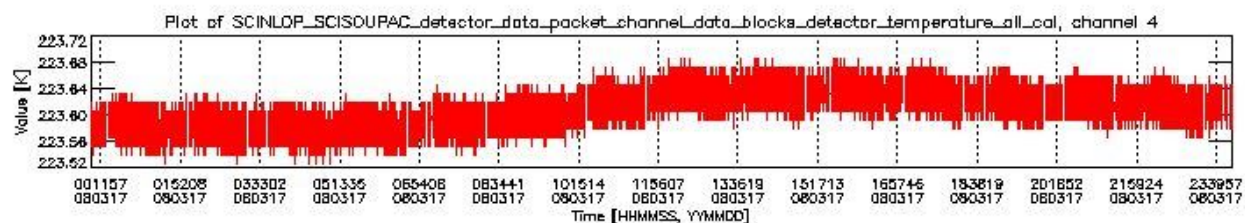
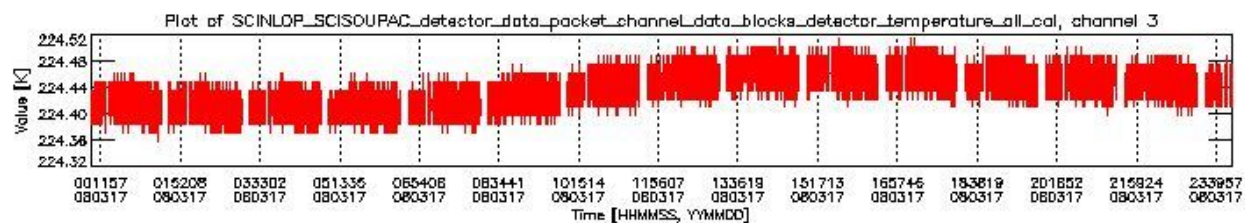
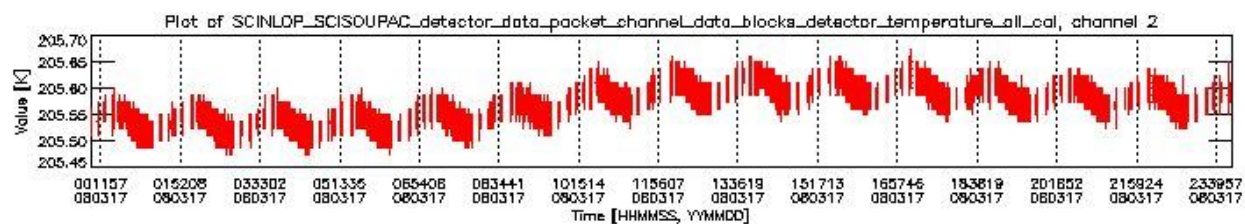
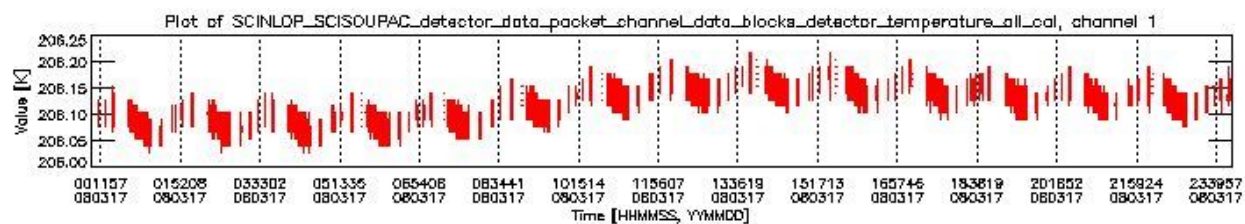
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sciamachy_daily_report_level0_KSPT_L0_4303_N_20080317_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20080317_3.PNG

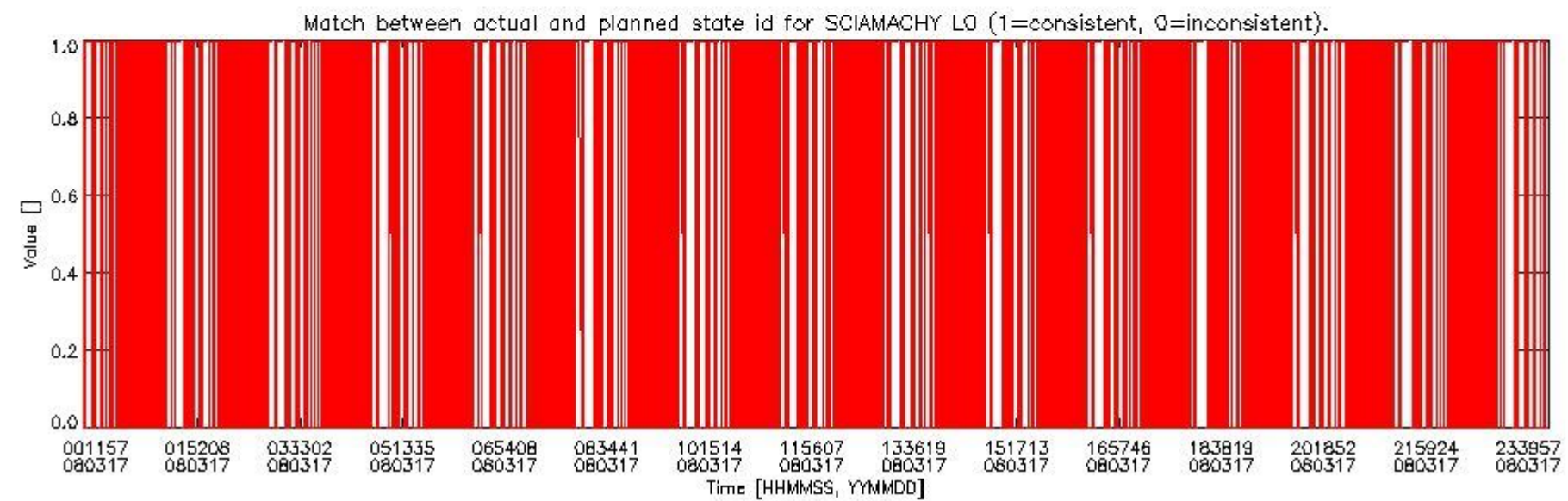
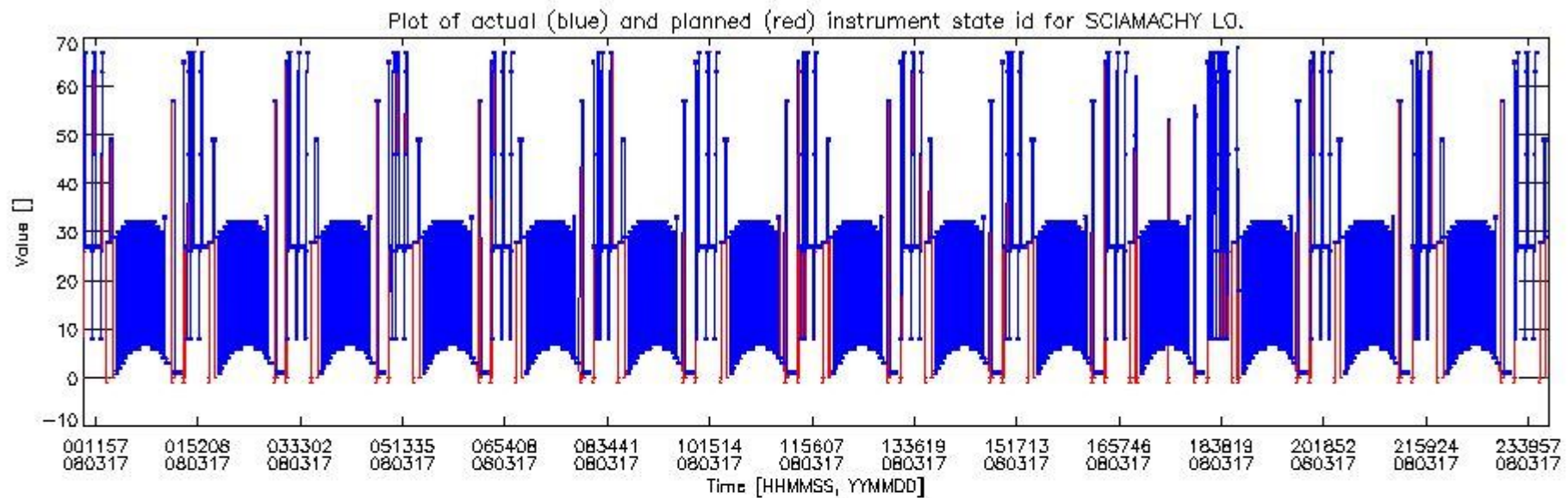


0.3 State monitoring

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: **32735**

#	Actual time	Actual value	Planned time	Planned value
0	17MAR2008 00:00:00.418867	63	17MAR2008 00:00:00.418867	46
1	17MAR2008 00:00:00.918885	63	17MAR2008 00:00:00.918885	46
2	17MAR2008 00:00:01.418902	63	17MAR2008 00:00:01.418902	46
3	17MAR2008 00:00:01.918879	63	17MAR2008 00:00:01.918879	46
4	17MAR2008 00:00:02.418897	63	17MAR2008 00:00:02.418897	46
5	17MAR2008 00:00:02.918874	63	17MAR2008 00:00:02.918874	46
6	17MAR2008 00:00:03.293887	63	17MAR2008 00:00:03.293887	46
7	17MAR2008 00:00:03.418891	63	17MAR2008 00:00:03.418891	46
8	17MAR2008 00:00:03.918868	63	17MAR2008 00:00:03.918868	46
9	17MAR2008 00:00:04.418886	63	17MAR2008 00:00:04.418886	46
10	17MAR2008 00:00:04.918903	63	17MAR2008 00:00:04.918903	46
11	17MAR2008 00:00:05.418880	63	17MAR2008 00:00:05.418880	46
12	17MAR2008 00:00:31.852493	67	17MAR2008 00:00:31.852493	63
13	17MAR2008 00:00:32.102501	67	17MAR2008 00:00:32.102501	63
14	17MAR2008 00:00:32.227466	67	17MAR2008 00:00:32.227466	63
15	17MAR2008 00:00:32.352470	67	17MAR2008 00:00:32.352470	63
16	17MAR2008 00:00:32.477474	67	17MAR2008 00:00:32.477474	63
17	17MAR2008 00:00:32.602479	67	17MAR2008 00:00:32.602479	63
18	17MAR2008 00:00:32.727483	67	17MAR2008 00:00:32.727483	63
19	17MAR2008 00:00:32.852487	67	17MAR2008 00:00:32.852487	63
...

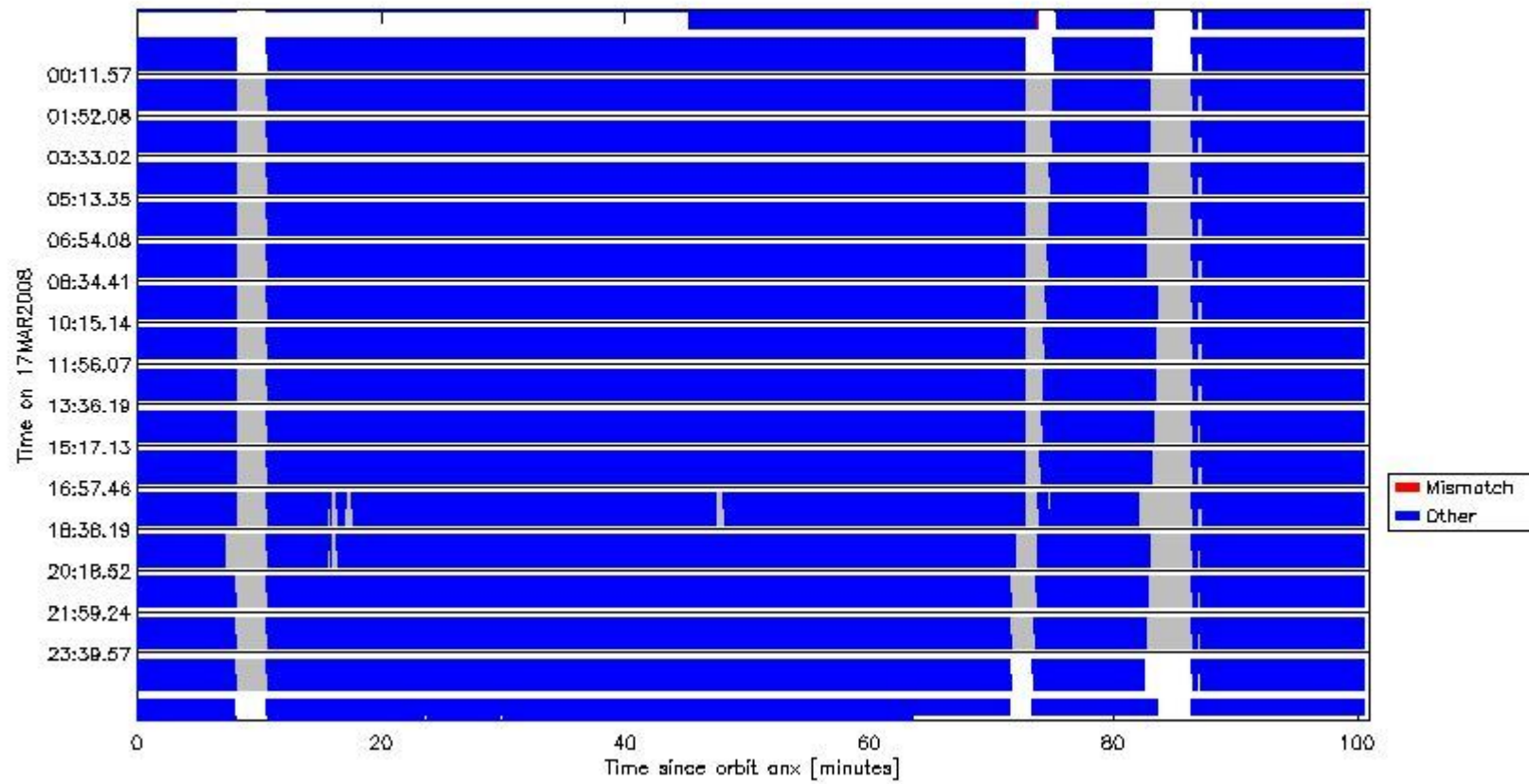


sciamachy_daily_report_level0_KSPT_L0_4303_N_20080317_5.PNG

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 17MAR2008.
 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_20080317_6.PNG

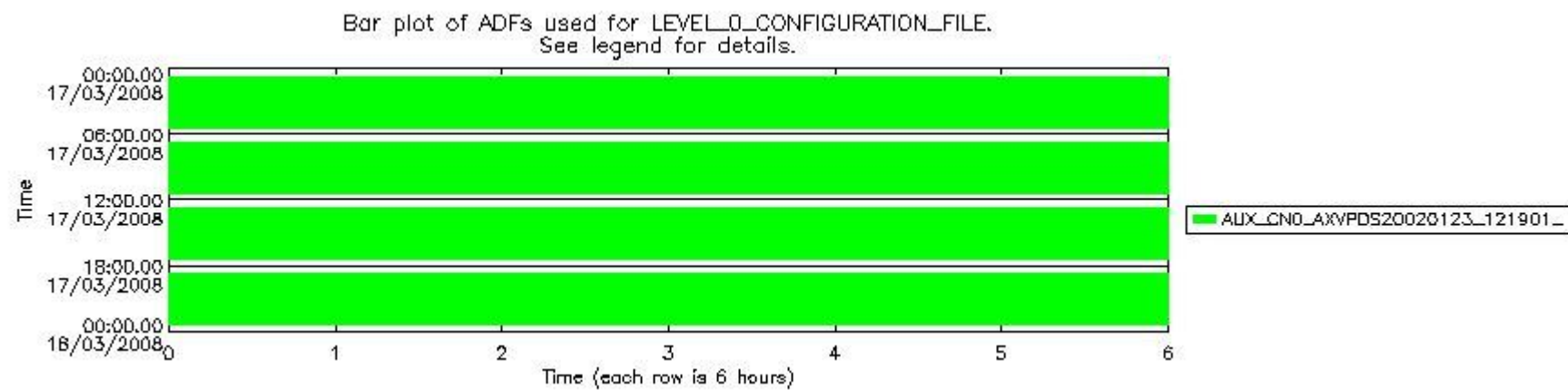
0.4 ADF monitoring

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

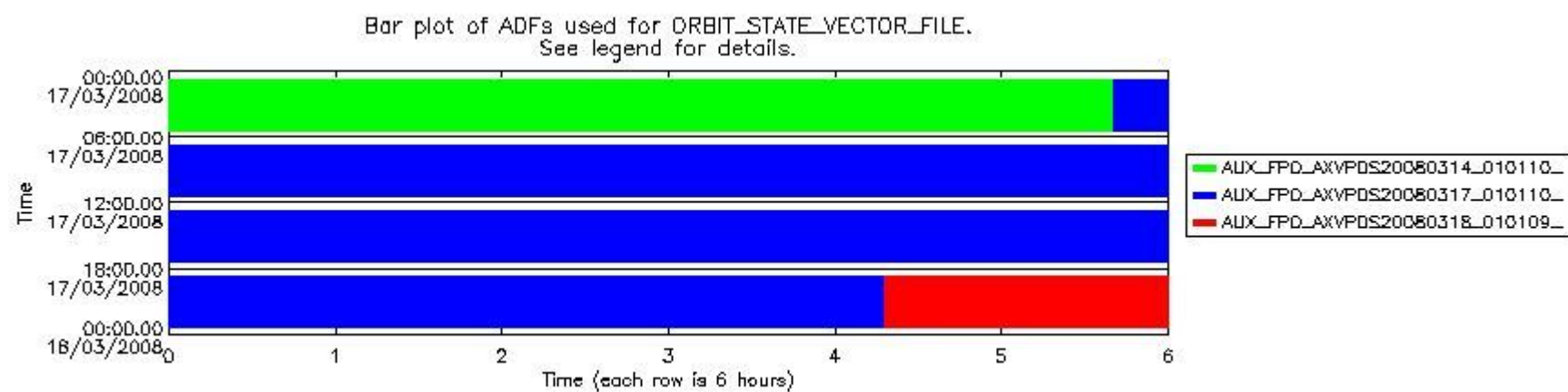
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

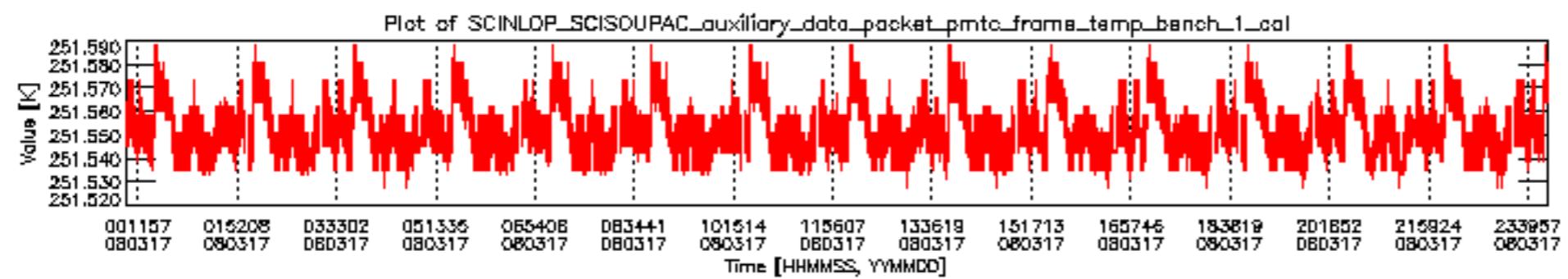
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20080314_010110_20080313_190411_20080323_203025
2	AUX_FPO_AXVPDS20080317_010110_20080316_190956_20080326_203610
3	AUX_FPO_AXVPDS20080318_010109_20080317_183819_20080327_200433

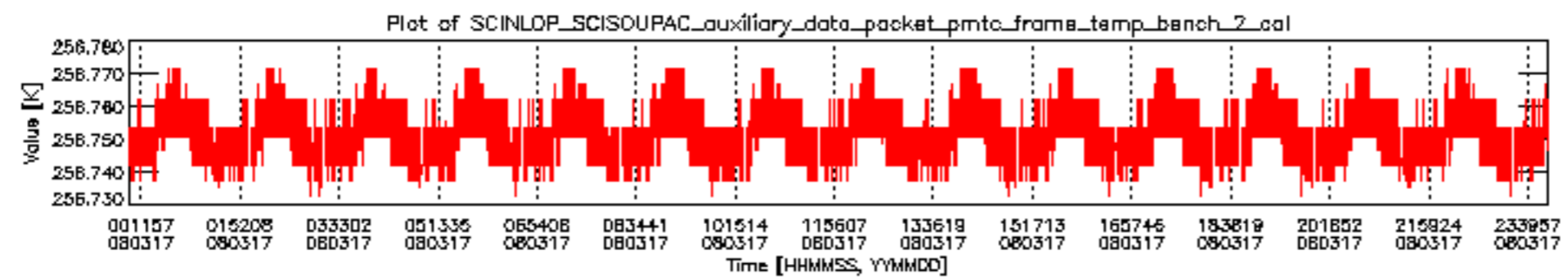


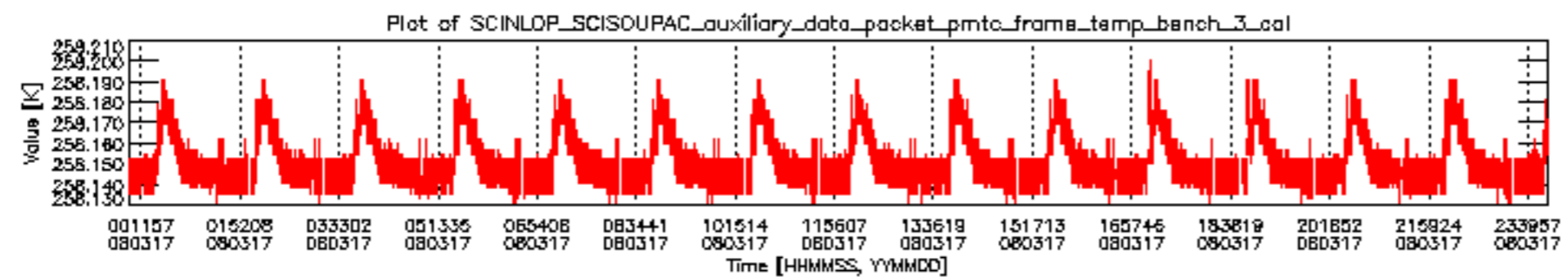
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080317_7.PNG

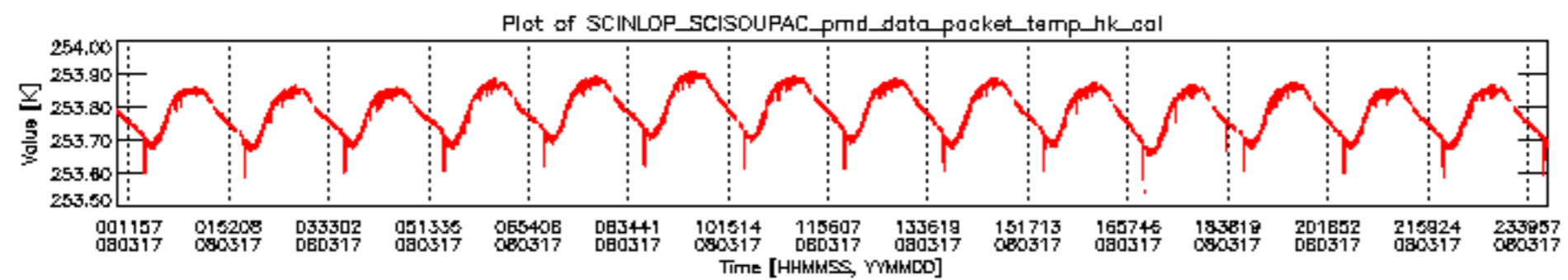


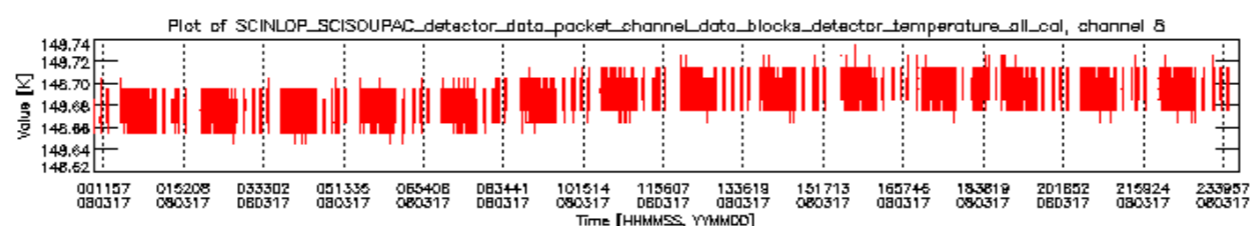
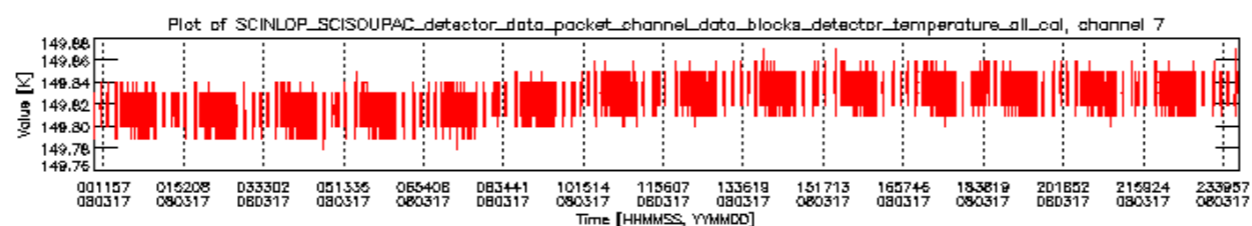
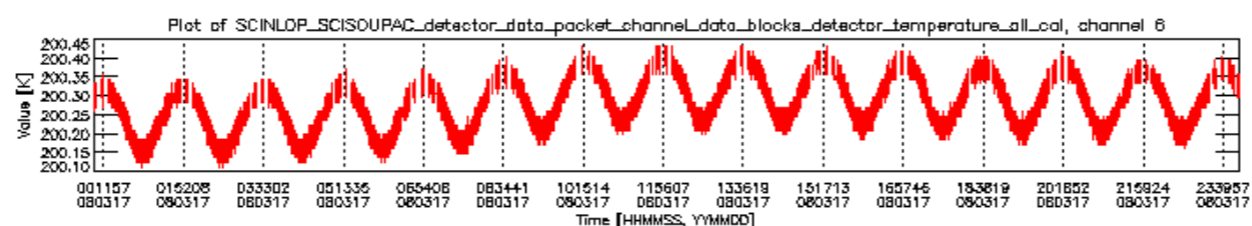
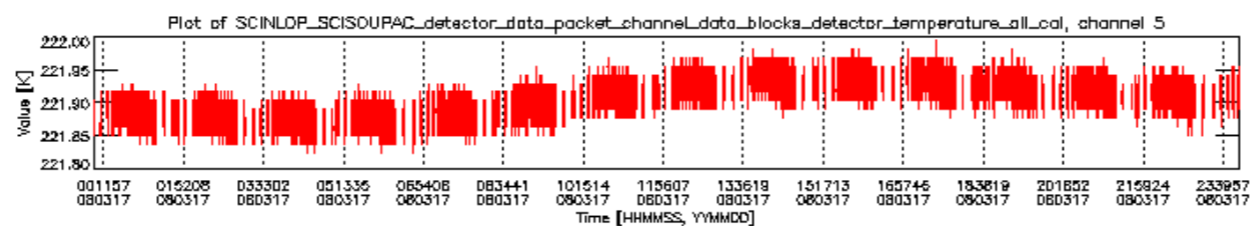
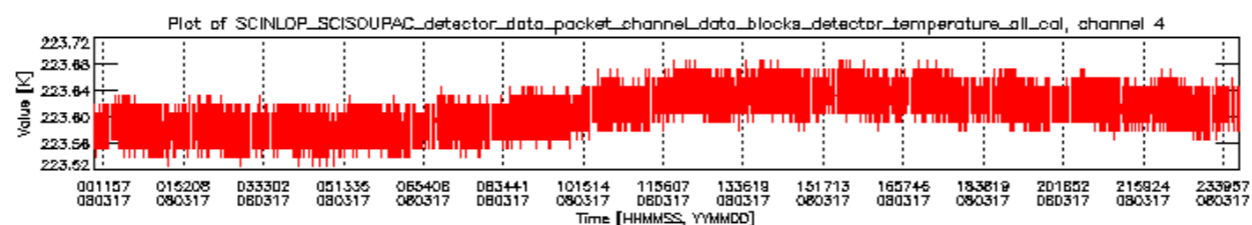
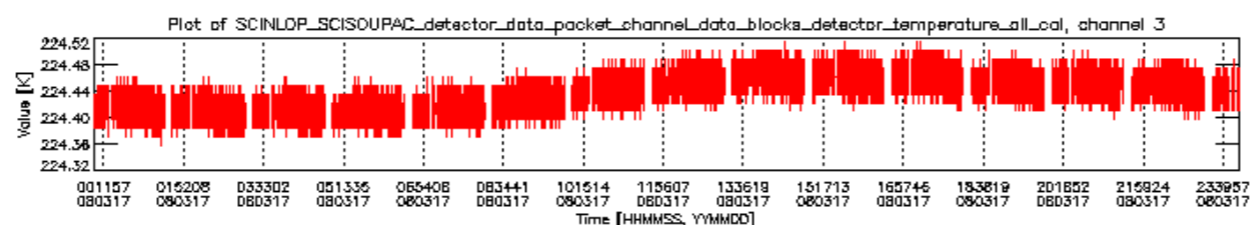
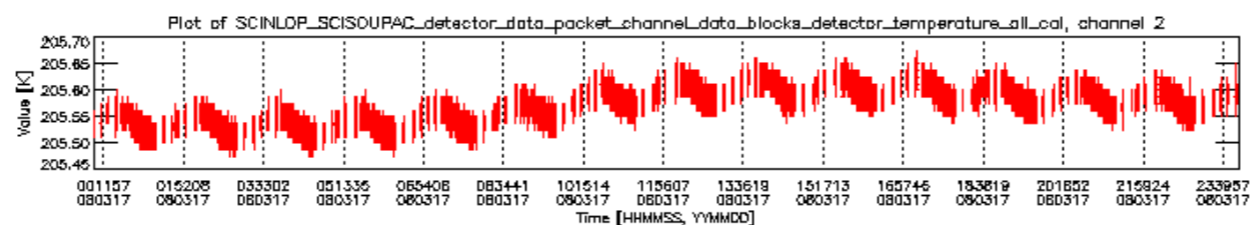
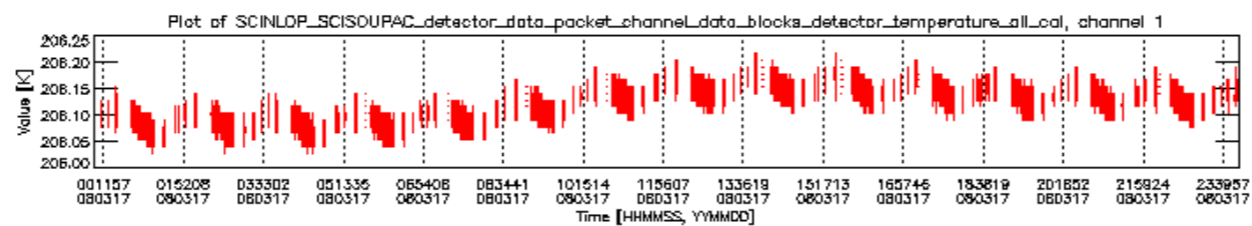
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080317_8.PNG

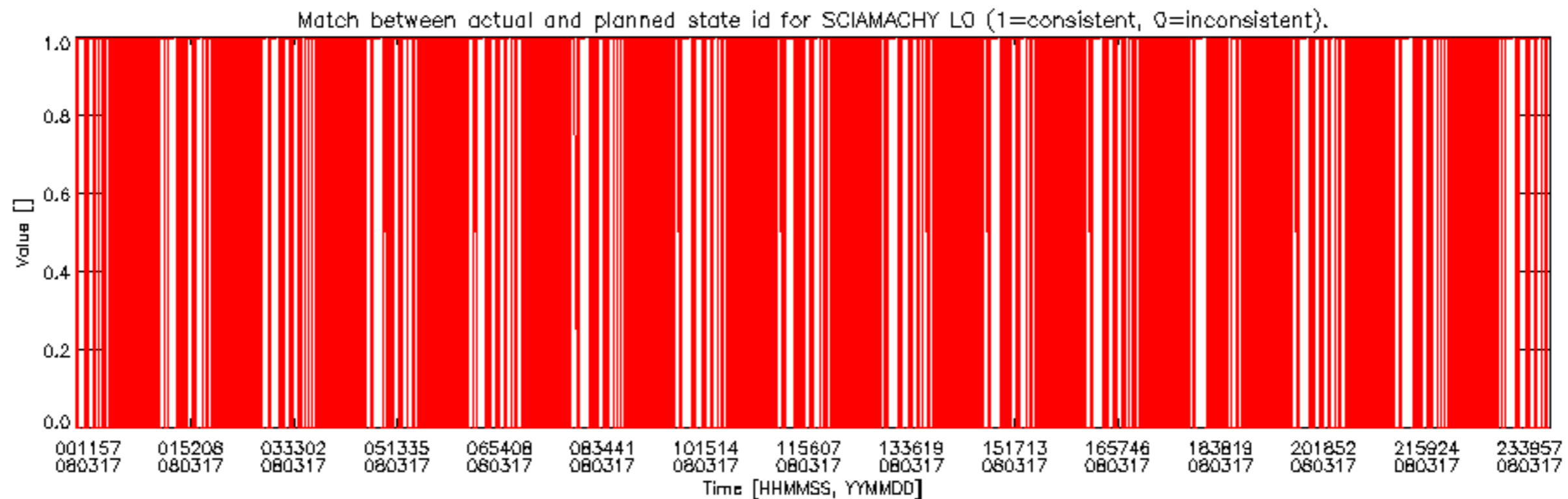
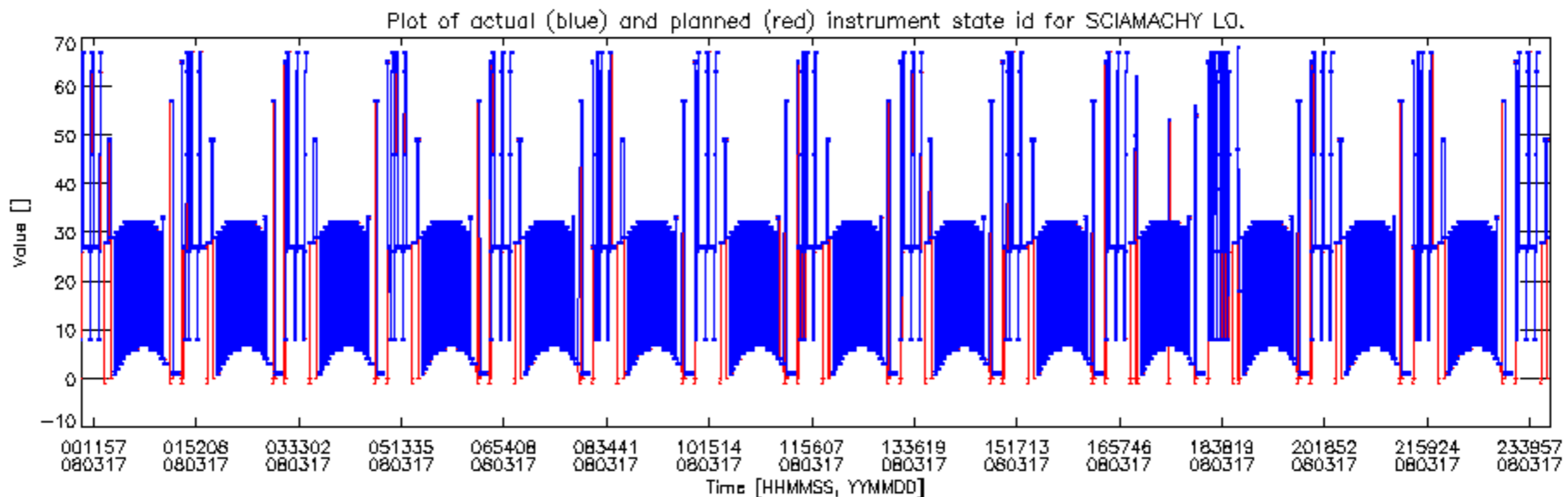


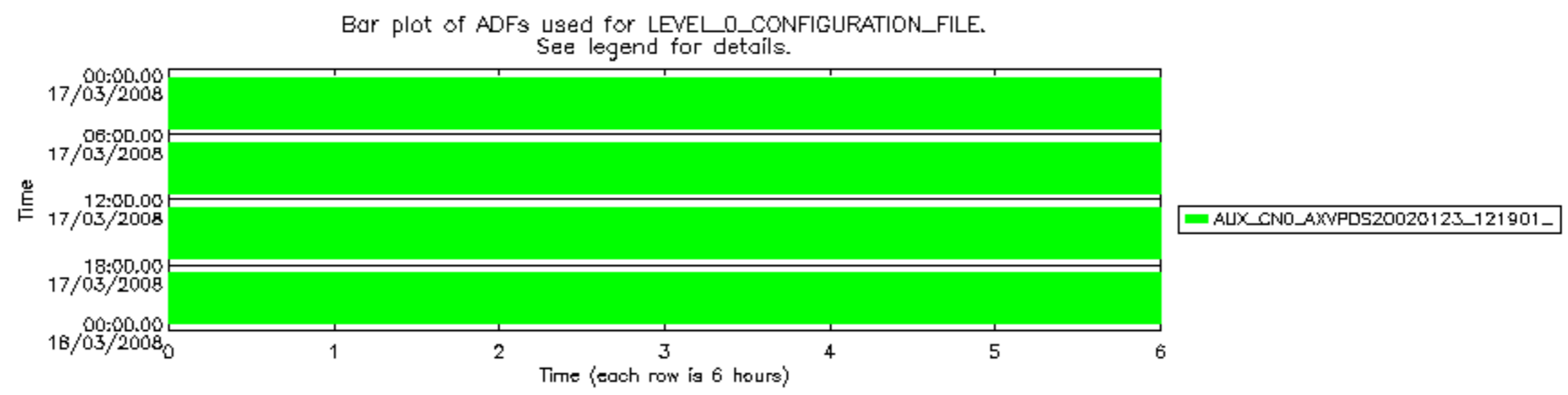












Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.
See legend for details.

