

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	19SEP2008 21:09:28
Data source version	KSPT_L0/4303-N
Processing scope for products	15SEP2008 00:00:00 to 16SEP2008 00:00:00
Start time of first product within scope	14SEP2008 23:40:08
Stop time of last product within scope	16SEP2008 00:49:30
Total number of level 0 products	15
Number of level 0 products with errors	3

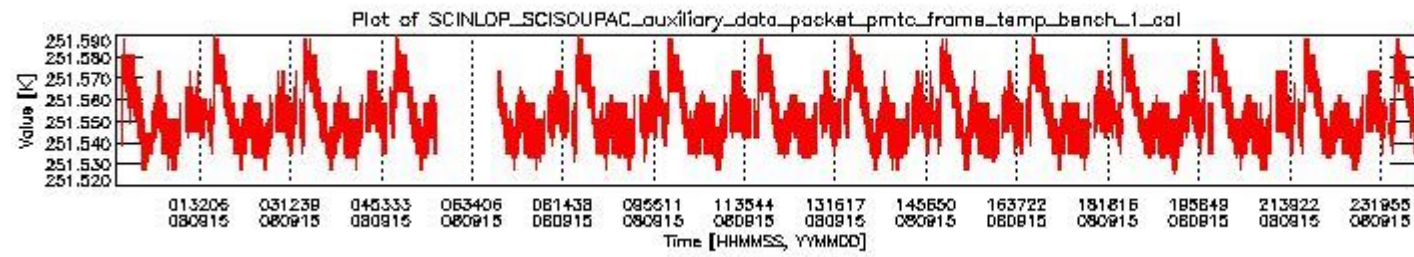
0.1.2 Summary per product

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

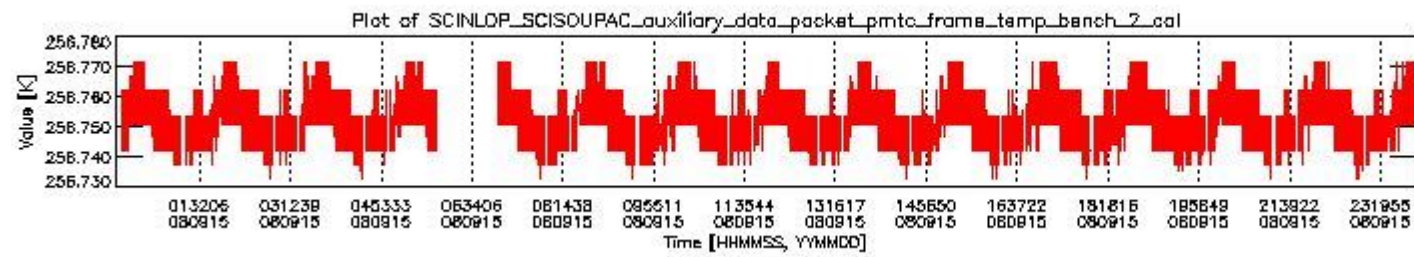
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080914_234008_000060382072_00087_34209_7507.N1	14SEP2008 23:40:08	15SEP2008 01:20:46	0	0	0	0	0
1	SCI_NL__OPNPDE20080915_011929_000046832072_00088_34210_7508.N1	15SEP2008 01:19:29	15SEP2008 02:37:32	0	0	0	0	0
2	SCI_NL__OPNPDE20080915_023636_000057882072_00089_34211_7509.N1	15SEP2008 02:36:36	15SEP2008 04:13:04	0	0	0	0	0
3	SCI_NL__OPNPDE20080915_041304_000060922072_00090_34212_7510.N1	15SEP2008 04:13:04	15SEP2008 05:54:36	0	0	0	0	0
4	SCI_NL__OPNPDK20080915_070215_000060922072_00092_34214_9385.N1	15SEP2008 07:02:15	15SEP2008 08:43:47	1	1	0	0	1
5	SCI_NL__OPNPDK20080915_084347_000059812072_00093_34215_9387.N1	15SEP2008 08:43:47	15SEP2008 10:23:28	0	0	0	0	0
6	SCI_NL__OPNPDK20080915_102328_000059682072_00094_34216_9388.N1	15SEP2008 10:23:28	15SEP2008 12:02:55	0	0	0	0	0
7	SCI_NL__OPNPDK20080915_120147_000060492072_00095_34217_9389.N1	15SEP2008 12:01:47	15SEP2008 13:42:36	0	0	0	0	0
8	SCI_NL__OPNPDK20080915_134236_000058432072_00096_34218_9390.N1	15SEP2008 13:42:36	15SEP2008 15:19:59	0	0	0	0	0
9	SCI_NL__OPNPDK20080915_151851_000058002072_00097_34219_9393.N1	15SEP2008 15:18:51	15SEP2008 16:55:31	0	0	0	0	0
10	SCI_NL__OPNPDK20080915_165435_000060012072_00098_34220_9394.N1	15SEP2008 16:54:35	15SEP2008 18:34:36	1	1	0	0	0
11	SCI_NL__OPNPDK20080915_183355_000059192072_00099_34221_9395.N1	15SEP2008 18:33:55	15SEP2008 20:12:35	1	1	0	0	0
12	SCI_NL__OPNPDE20080915_201235_000044522072_00100_34222_7511.N1	15SEP2008 20:12:35	15SEP2008 21:26:47	0	0	0	0	0
13	SCI_NL__OPNPDE20080915_212603_000061562072_00100_34222_7512.N1	15SEP2008 21:26:03	15SEP2008 23:08:39	0	0	0	0	0
14	SCI_NL__OPNPDE20080915_230715_000061352072_00101_34223_7513.N1	15SEP2008 23:07:15	16SEP2008 00:49:30	0	0	0	0	0

0.2 Product Quality Indicators

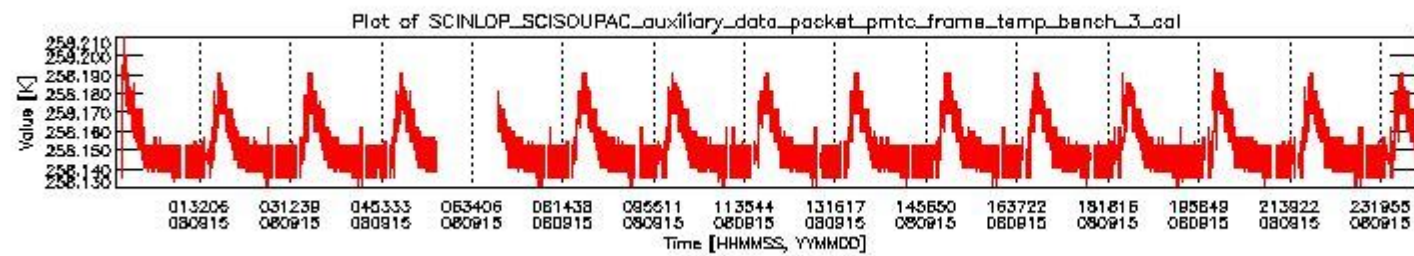
This section shows information about product quality, currently temperatures.



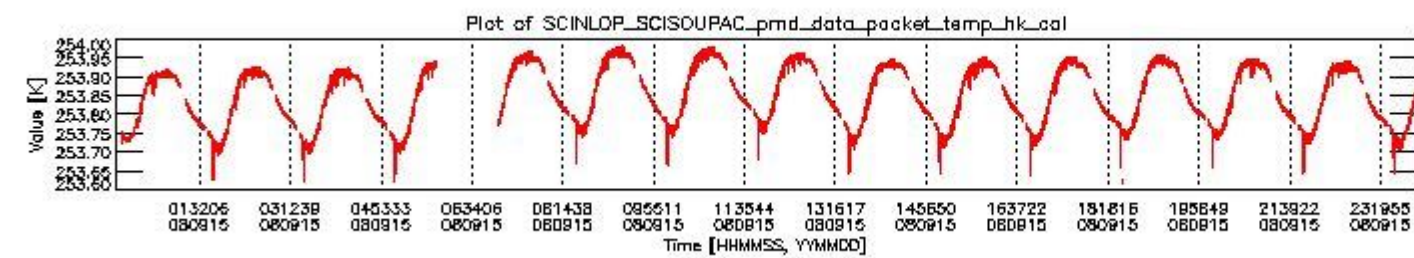
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080915_0.PNG



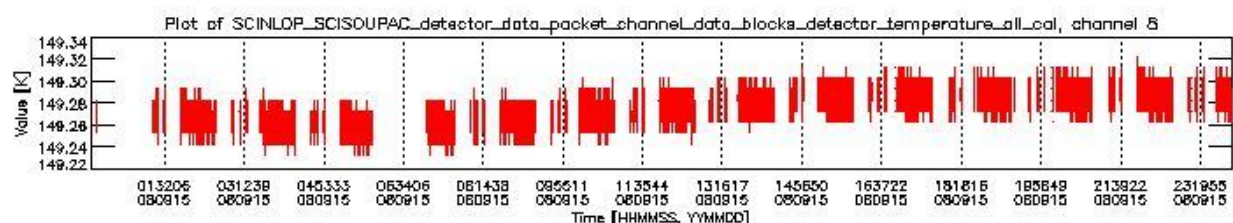
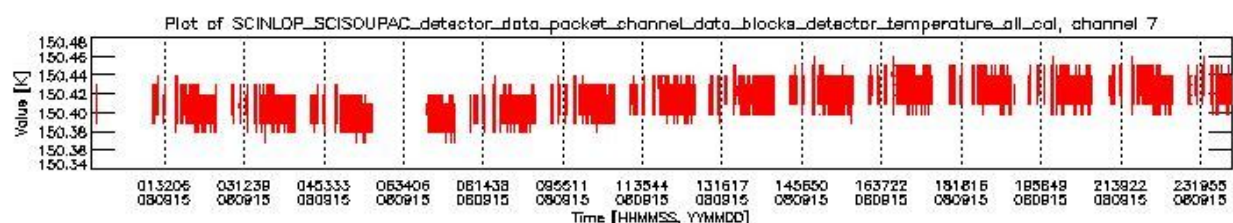
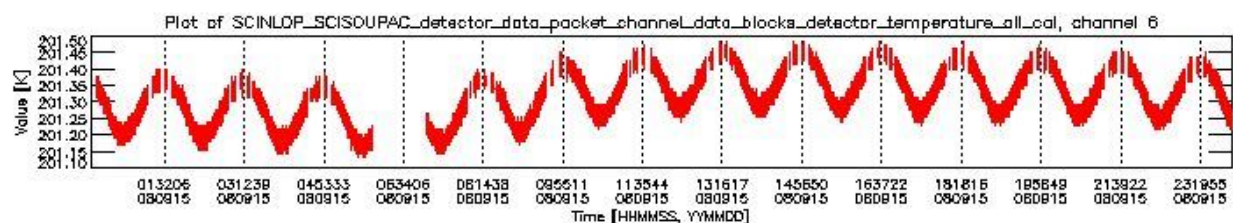
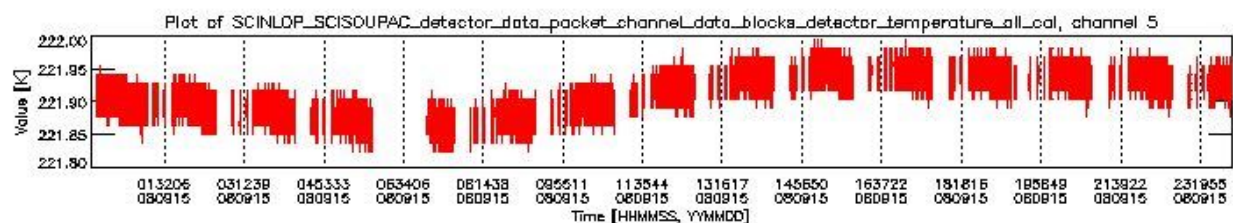
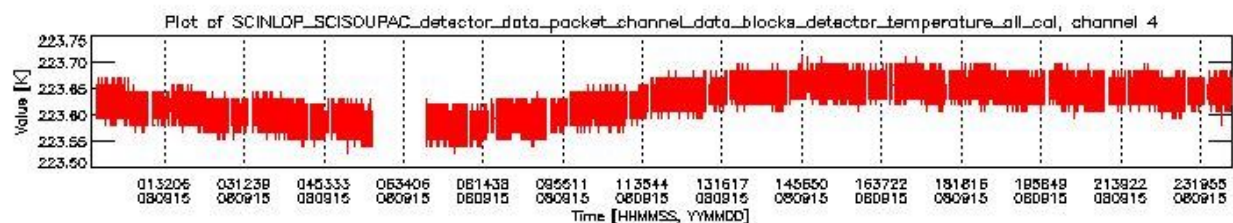
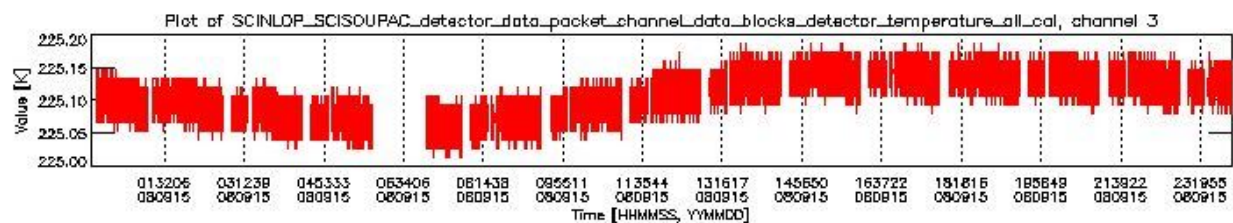
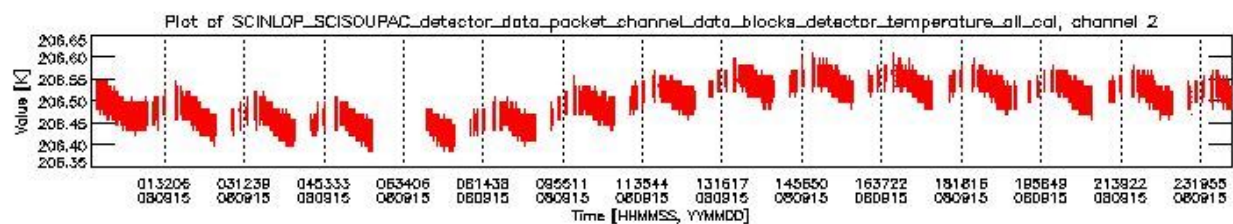
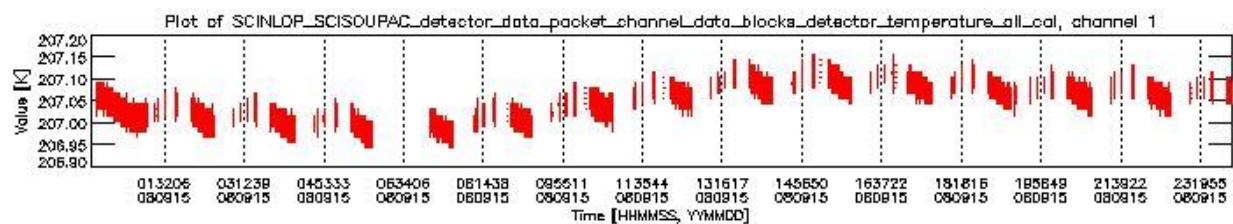
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080915_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20080915_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20080915_3.PNG

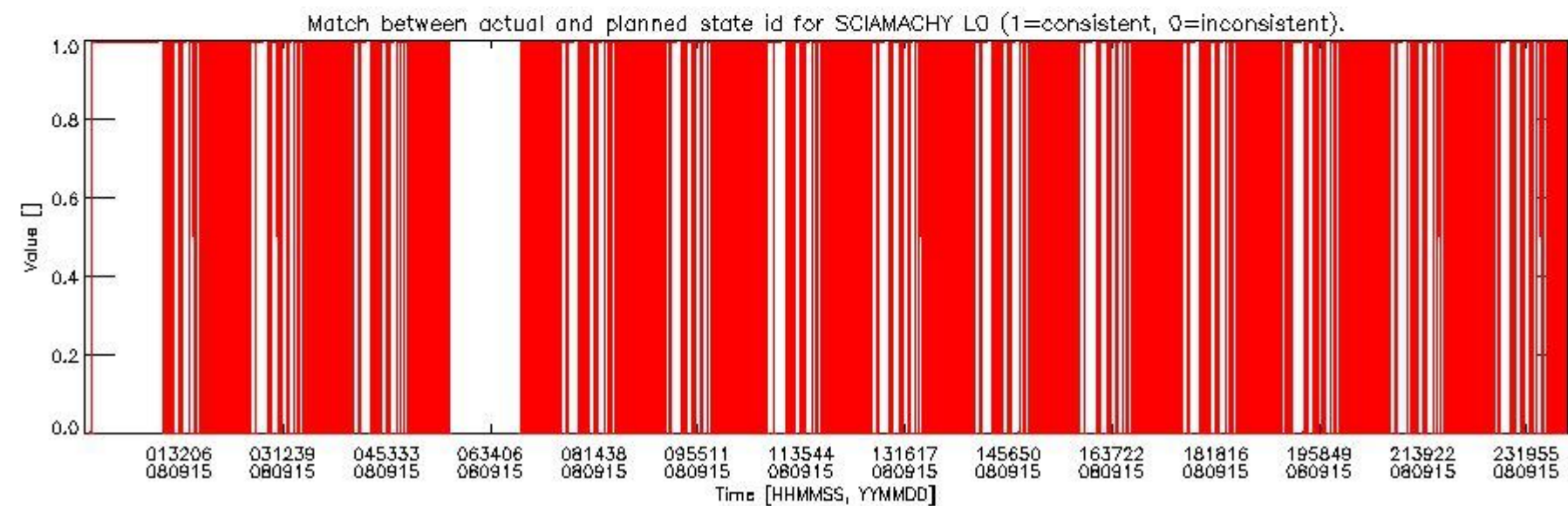
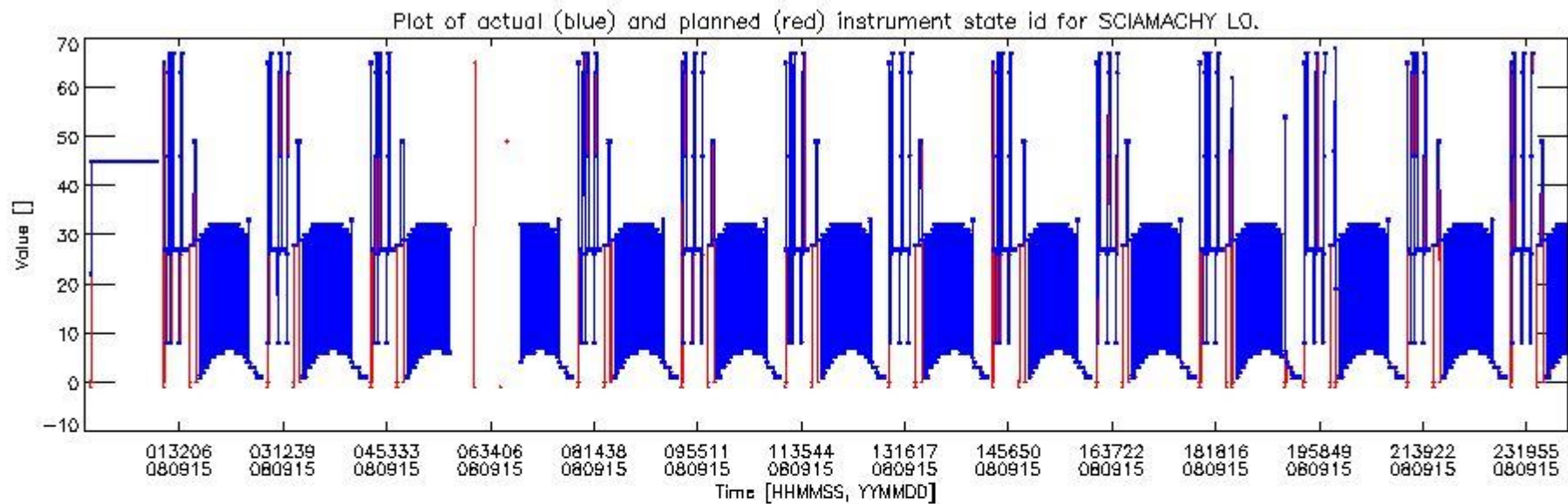


0.3 State monitoring

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: **47602**

#	Actual time	Actual value	Planned time	Planned value
0	15SEP2008 00:05:49.499331	22	15SEP2008 00:05:49.499331	0
1	15SEP2008 00:05:50.624330	22	15SEP2008 00:05:50.624330	0
2	15SEP2008 00:05:51.624325	22	15SEP2008 00:05:51.624325	0
3	15SEP2008 00:05:52.624360	22	15SEP2008 00:05:52.624360	0
4	15SEP2008 00:05:53.624354	22	15SEP2008 00:05:53.624354	0
5	15SEP2008 00:05:54.499345	22	15SEP2008 00:05:54.499345	0
6	15SEP2008 00:05:54.624349	22	15SEP2008 00:05:54.624349	0
7	15SEP2008 00:05:55.624343	22	15SEP2008 00:05:55.624343	0
8	15SEP2008 00:05:56.624338	22	15SEP2008 00:05:56.624338	0
9	15SEP2008 00:05:57.624333	22	15SEP2008 00:05:57.624333	0
10	15SEP2008 00:06:32.022778	45	15SEP2008 00:06:32.022778	0
11	15SEP2008 00:06:32.397791	45	15SEP2008 00:06:32.397791	0
12	15SEP2008 00:06:32.647800	45	15SEP2008 00:06:32.647800	0
13	15SEP2008 00:06:32.897768	45	15SEP2008 00:06:32.897768	0
14	15SEP2008 00:06:33.147777	45	15SEP2008 00:06:33.147777	0
15	15SEP2008 00:06:33.397786	45	15SEP2008 00:06:33.397786	0
16	15SEP2008 00:06:33.647794	45	15SEP2008 00:06:33.647794	0
17	15SEP2008 00:06:33.897803	45	15SEP2008 00:06:33.897803	0
18	15SEP2008 00:06:34.147772	45	15SEP2008 00:06:34.147772	0
19	15SEP2008 00:06:34.397780	45	15SEP2008 00:06:34.397780	0
...

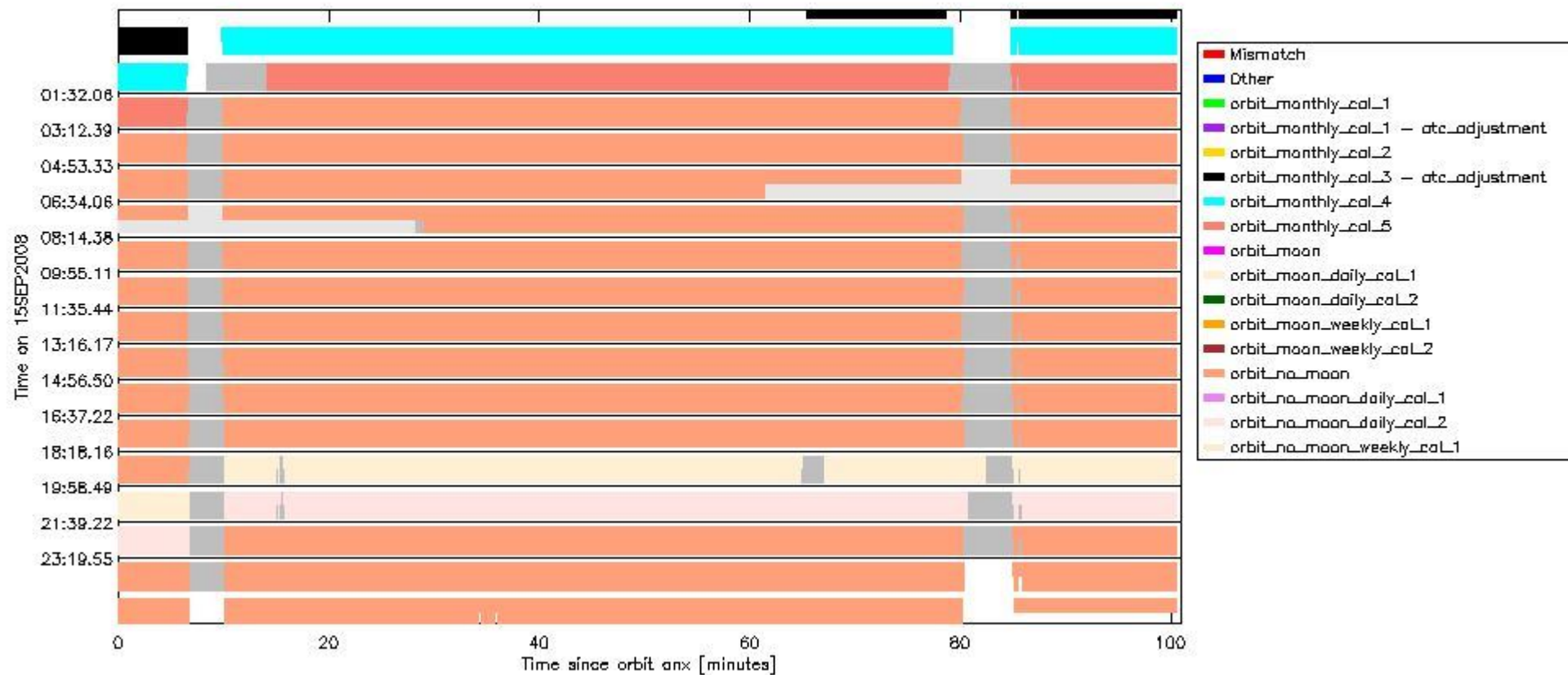


sciamachy_daily_report_level0_KSPT_L0_4303_N_20080915_5.PNG

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 15SEP2008.
 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_20080915_6.PNG

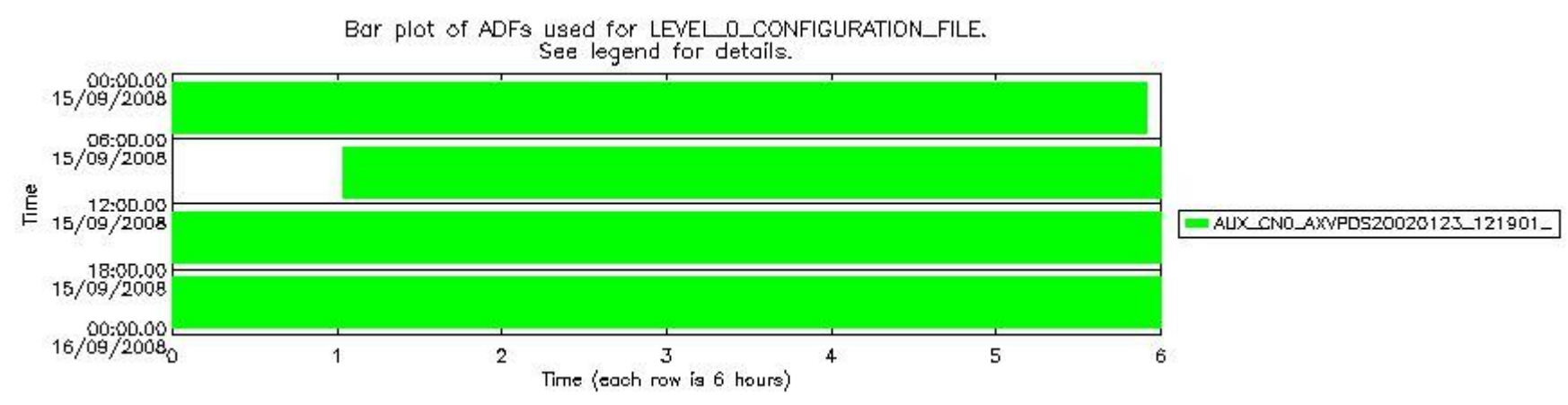
0.4 ADF monitoring

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

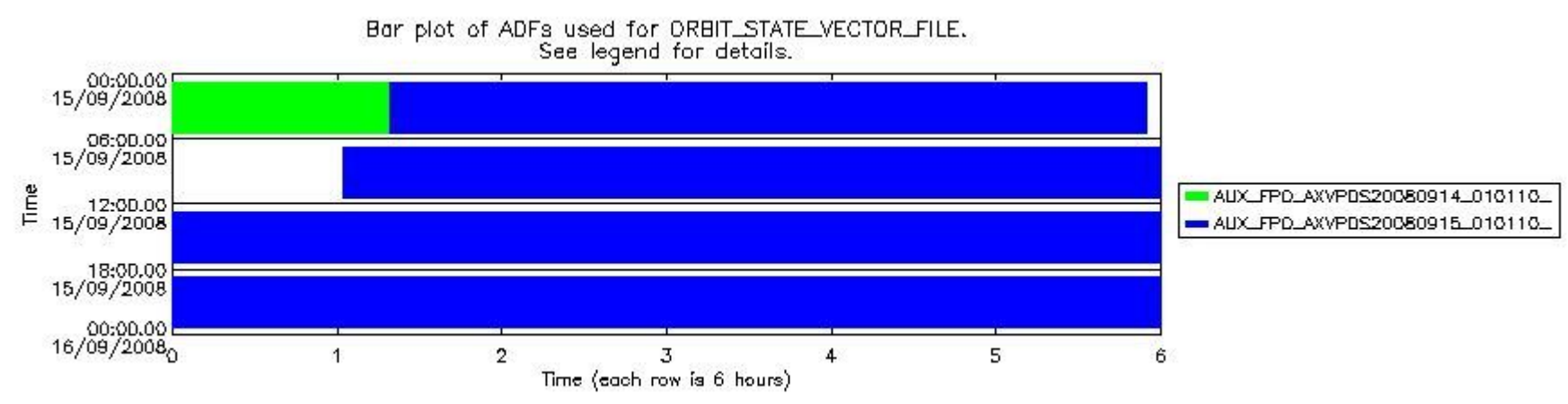
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

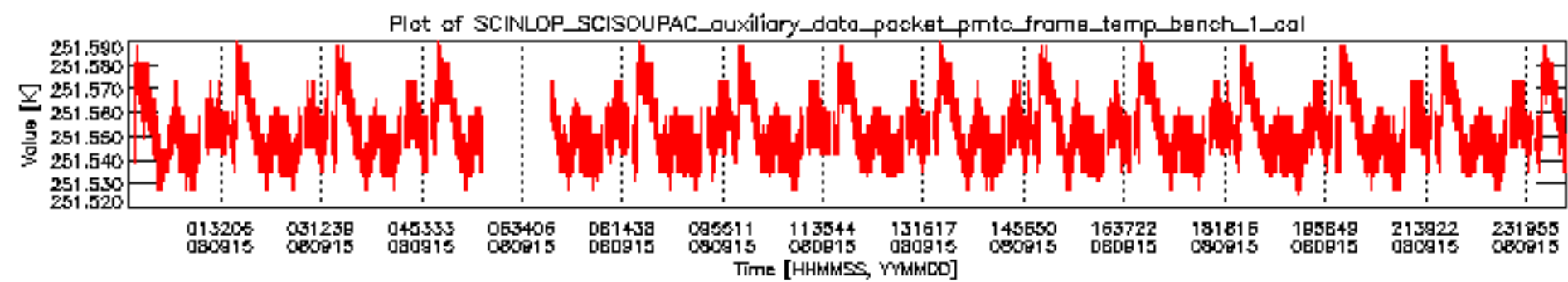
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20080914_010110_20080913_192123_20080923_204738
2	AUX_FPO_AXVPDS20080915_010110_20080914_184946_20080924_201601

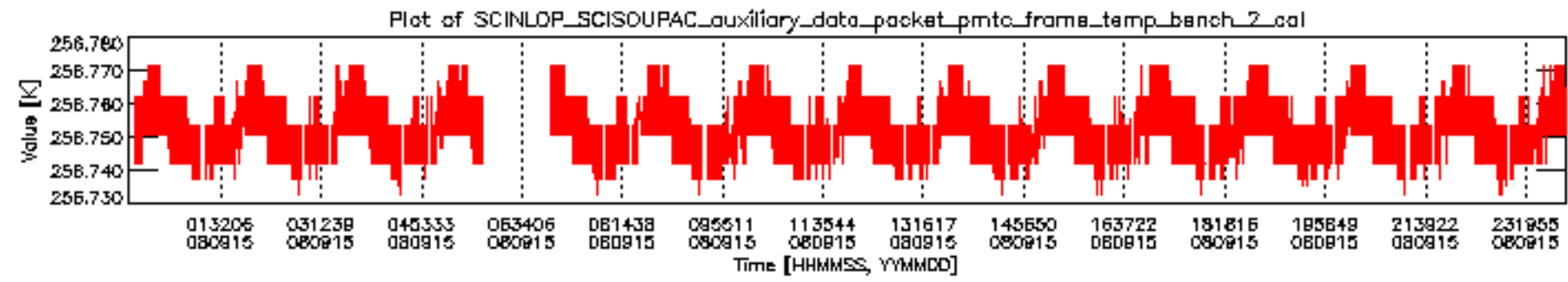


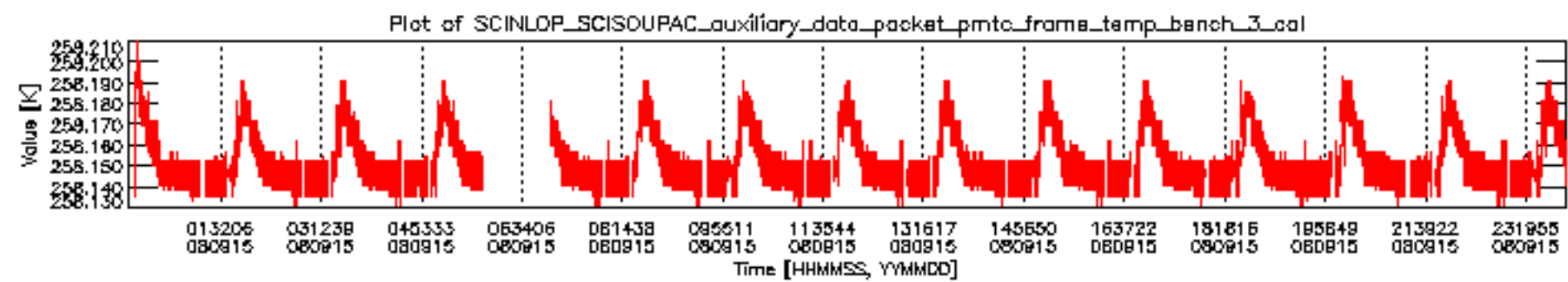
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080915_7.PNG

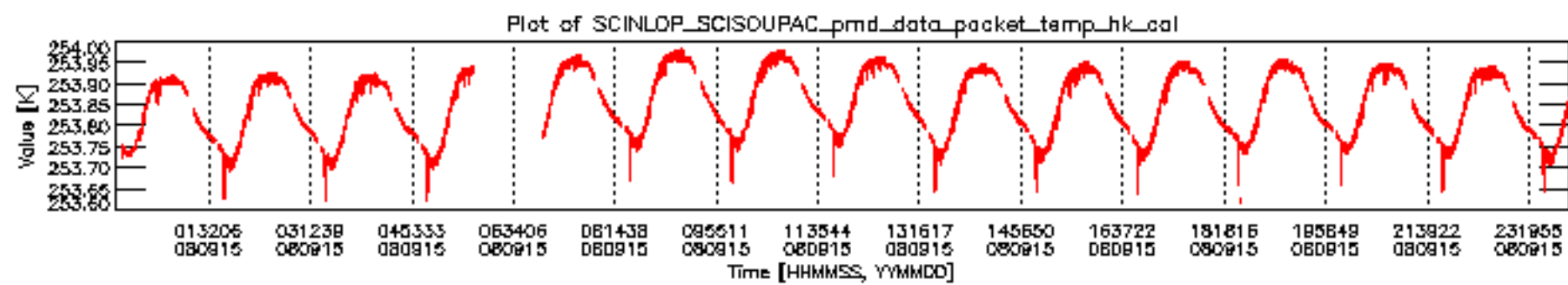


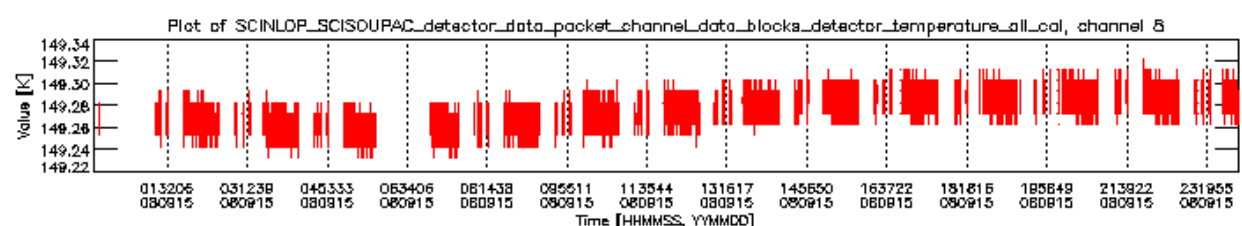
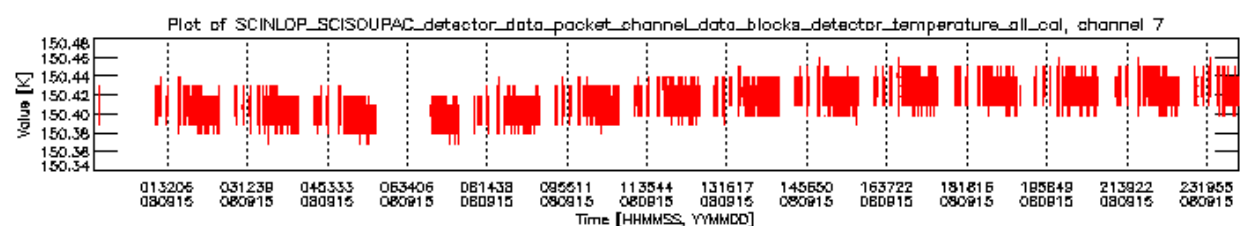
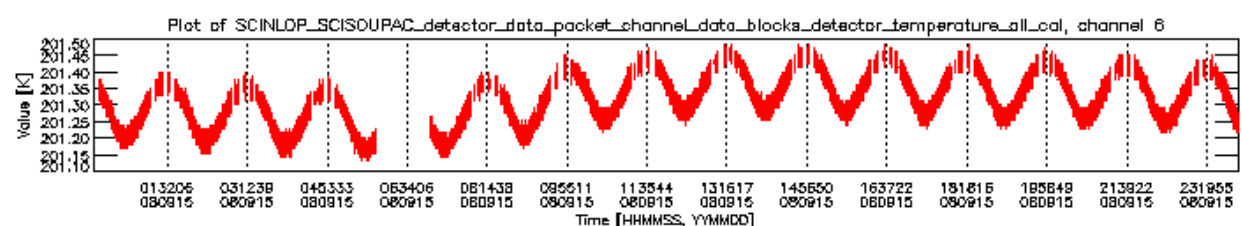
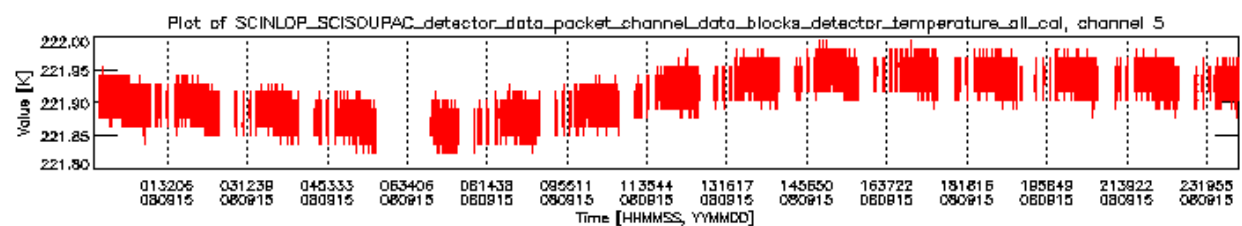
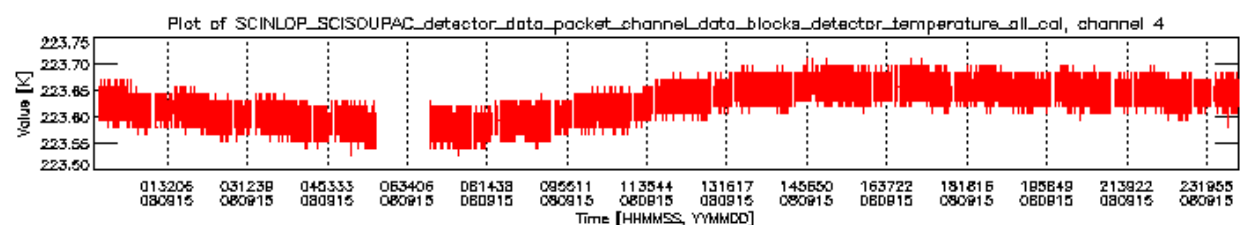
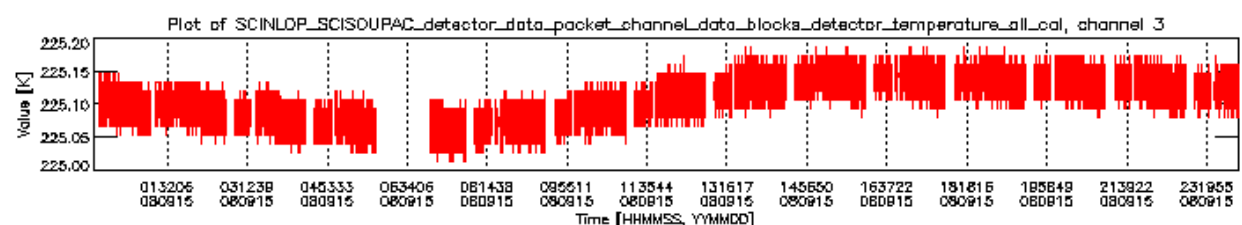
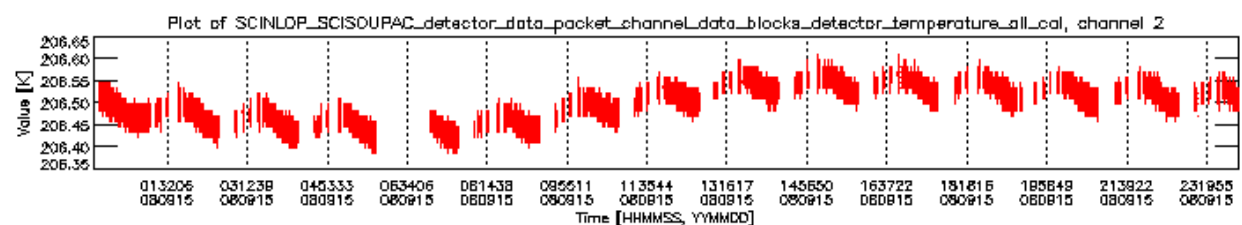
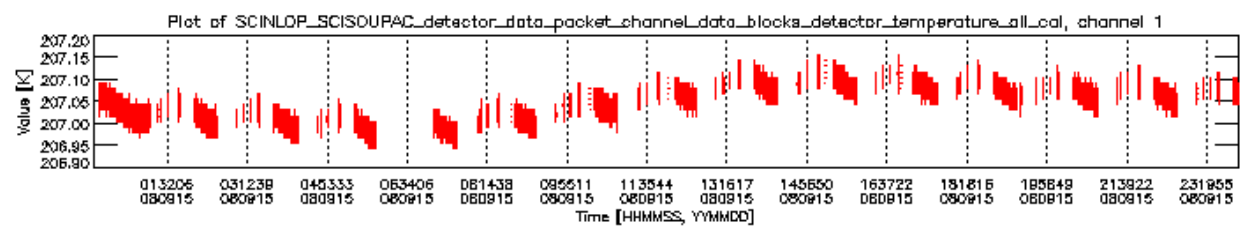
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080915_8.PNG

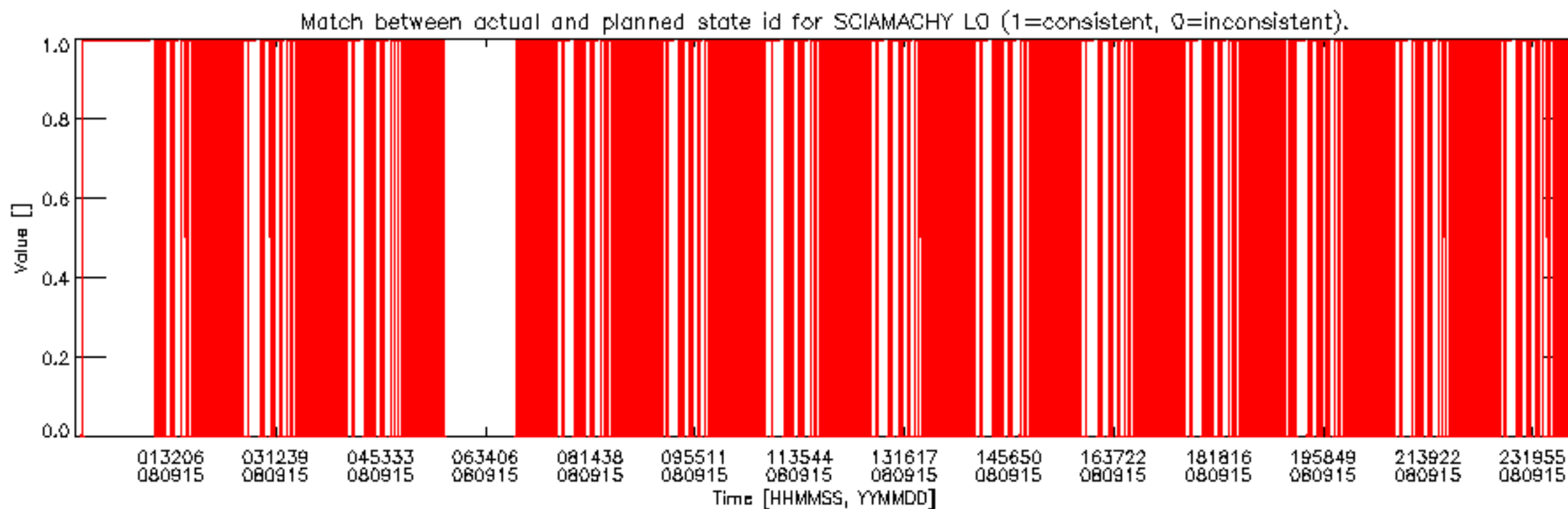
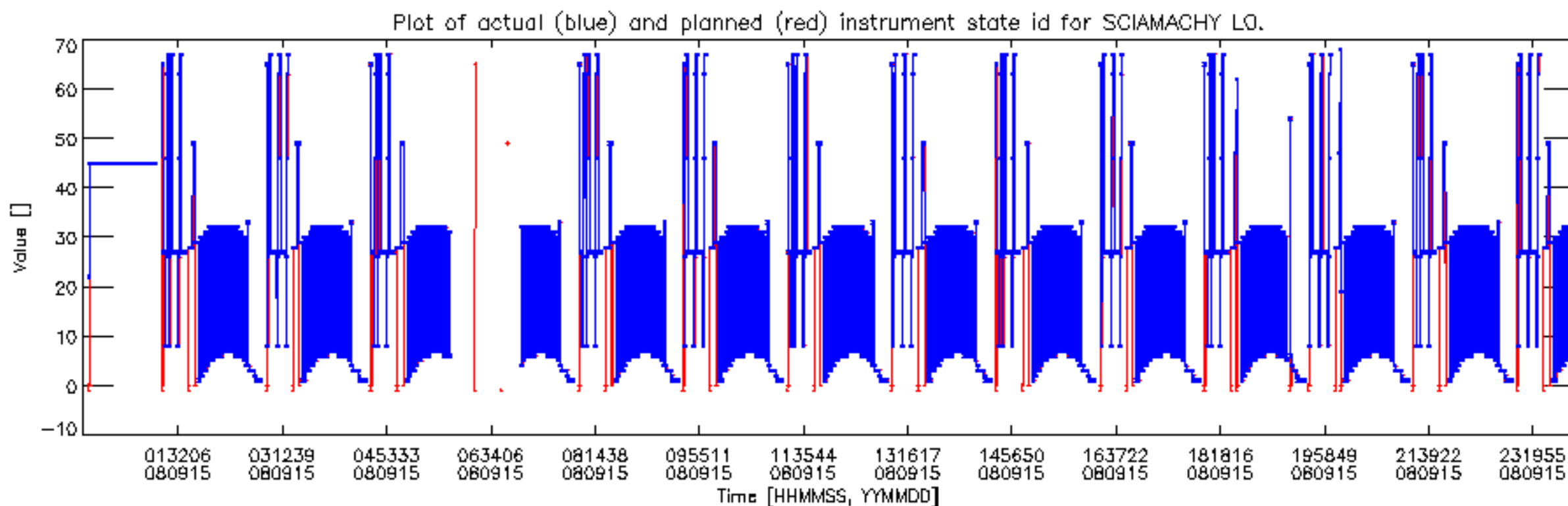












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