

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	24SEP2008 06:21:36
Data source version	KSPT_L0/4303-N
Processing scope for products	20SEP2008 00:00:00 to 21SEP2008 00:00:00
Start time of first product within scope	19SEP2008 22:42:45
Stop time of last product within scope	21SEP2008 01:31:44
Total number of level 0 products	17
Number of level 0 products with errors	3

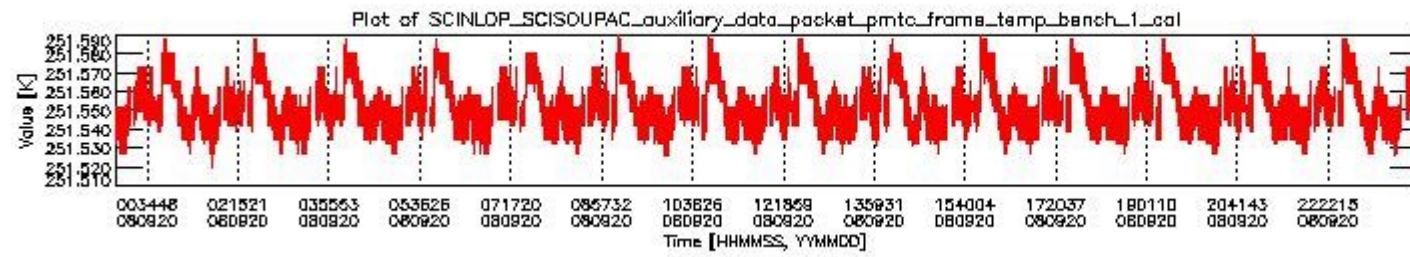
0.1.2 Summary per product

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

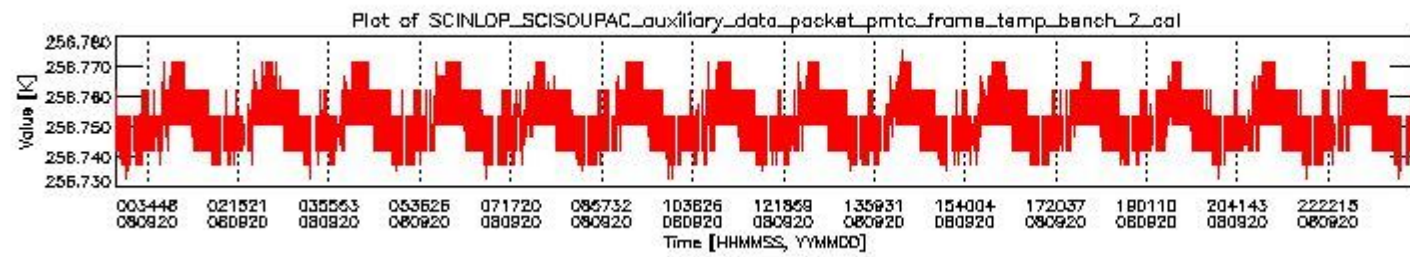
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080919_224245_000059852072_00158_34280_7539.N1	19SEP2008 22:42:45	20SEP2008 00:22:30	0	0	0	0	0
1	SCI_NL__OPNPDE20080920_002156_000059902072_00159_34281_7540.N1	20SEP2008 00:21:56	20SEP2008 02:01:46	0	0	0	0	0
2	SCI_NL__OPNPDE20080920_020102_000044432072_00160_34282_7541.N1	20SEP2008 02:01:02	20SEP2008 03:15:05	0	0	0	0	0
3	SCI_NL__OPNPDE20080920_031505_000061052072_00161_34283_7542.N1	20SEP2008 03:15:05	20SEP2008 04:56:50	0	0	0	0	0
4	SCI_NL__OPNPDE20080920_045650_000060372072_00162_34284_7543.N1	20SEP2008 04:56:50	20SEP2008 06:37:26	0	0	0	0	0
5	SCI_NL__OPNPDK20080920_063618_000041142072_00163_34285_9450.N1	20SEP2008 06:36:18	20SEP2008 07:44:52	0	0	0	0	0
6	SCI_NL__OPNPDK20080920_074452_000061612072_00164_34286_9451.N1	20SEP2008 07:44:52	20SEP2008 09:27:33	1	1	0	0	0
7	SCI_NL__OPNPDK20080920_092624_000060492072_00165_34287_9452.N1	20SEP2008 09:26:24	20SEP2008 11:07:13	0	0	0	0	0
8	SCI_NL__OPNPDK20080920_110605_000059682072_00166_34288_9453.N1	20SEP2008 11:06:05	20SEP2008 12:45:32	0	0	0	0	0
9	SCI_NL__OPNPDK20080920_124437_000060362072_00167_34289_9454.N1	20SEP2008 12:44:37	20SEP2008 14:25:13	0	0	0	0	0
10	SCI_NL__OPNPDK20080920_142417_000057192072_00168_34290_9455.N1	20SEP2008 14:24:17	20SEP2008 15:59:36	0	0	0	0	0
11	SCI_NL__OPNPDK20080920_155840_000060562072_00169_34291_9456.N1	20SEP2008 15:58:40	20SEP2008 17:39:37	0	0	0	0	0
12	SCI_NL__OPNPDK20080920_173841_000059812072_00170_34292_9457.N1	20SEP2008 17:38:41	20SEP2008 19:18:22	1	1	0	0	0
13	SCI_NL__OPNPDK20080920_191741_000059192072_00171_34293_9458.N1	20SEP2008 19:17:41	20SEP2008 20:56:20	1	0	1	0	0
14	SCI_NL__OPNPDE20080920_205620_000043632072_00172_34294_7544.N1	20SEP2008 20:56:20	20SEP2008 22:09:03	0	0	0	0	0
15	SCI_NL__OPNPDE20080920_220819_000061612072_00172_34294_7545.N1	20SEP2008 22:08:19	20SEP2008 23:51:00	0	0	0	0	0
16	SCI_NL__OPNPDE20080920_235013_000060912072_00173_34295_7546.N1	20SEP2008 23:50:13	21SEP2008 01:31:44	0	0	0	0	0

0.2 Product Quality Indicators

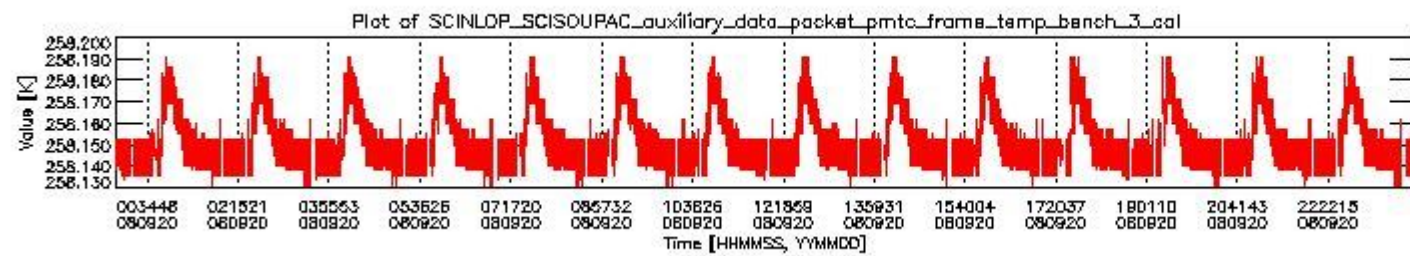
This section shows information about product quality, currently temperatures.



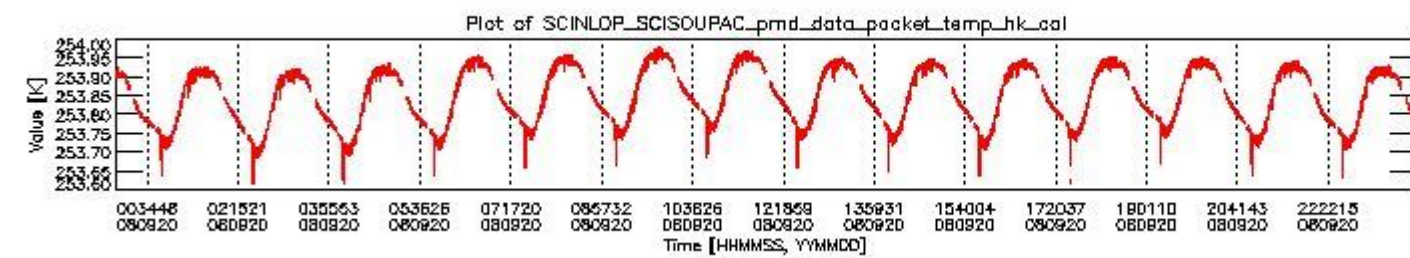
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080920_0.PNG



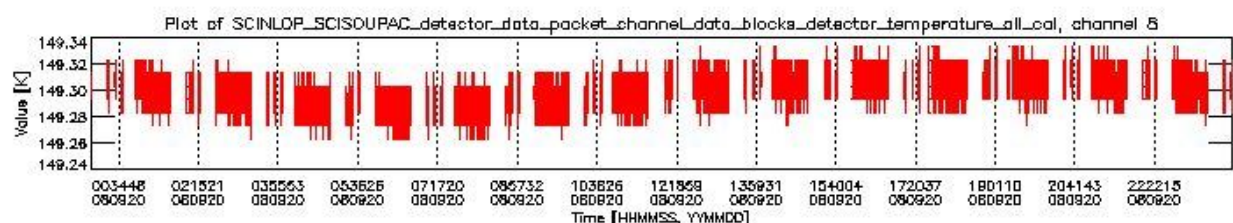
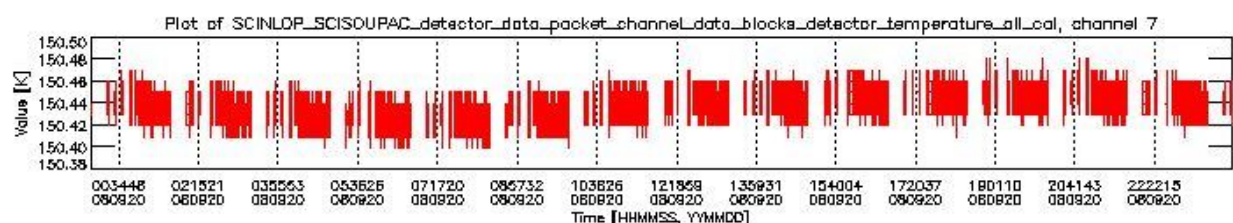
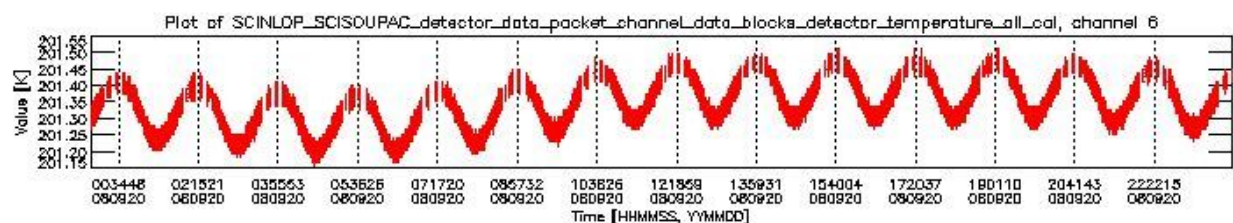
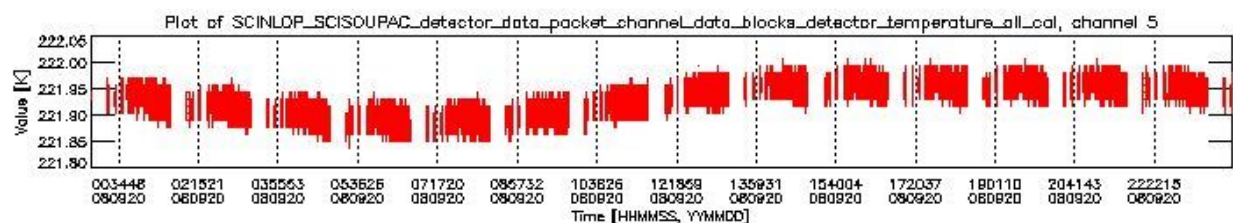
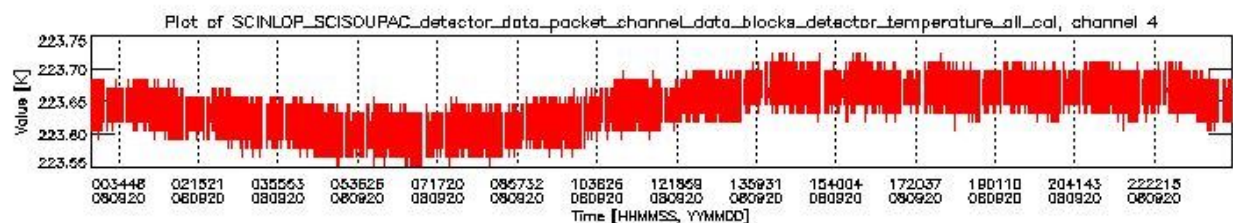
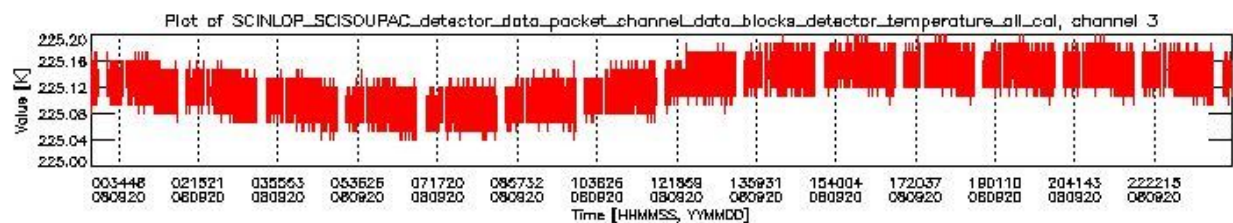
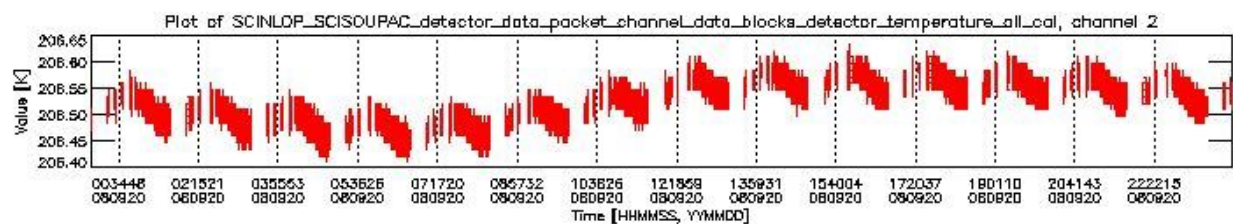
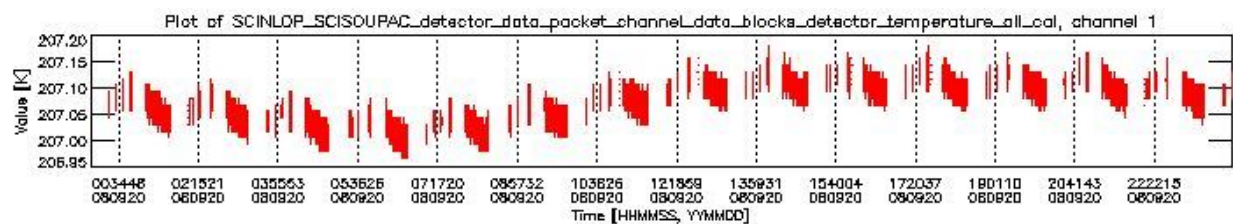
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080920_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20080920_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20080920_3.PNG

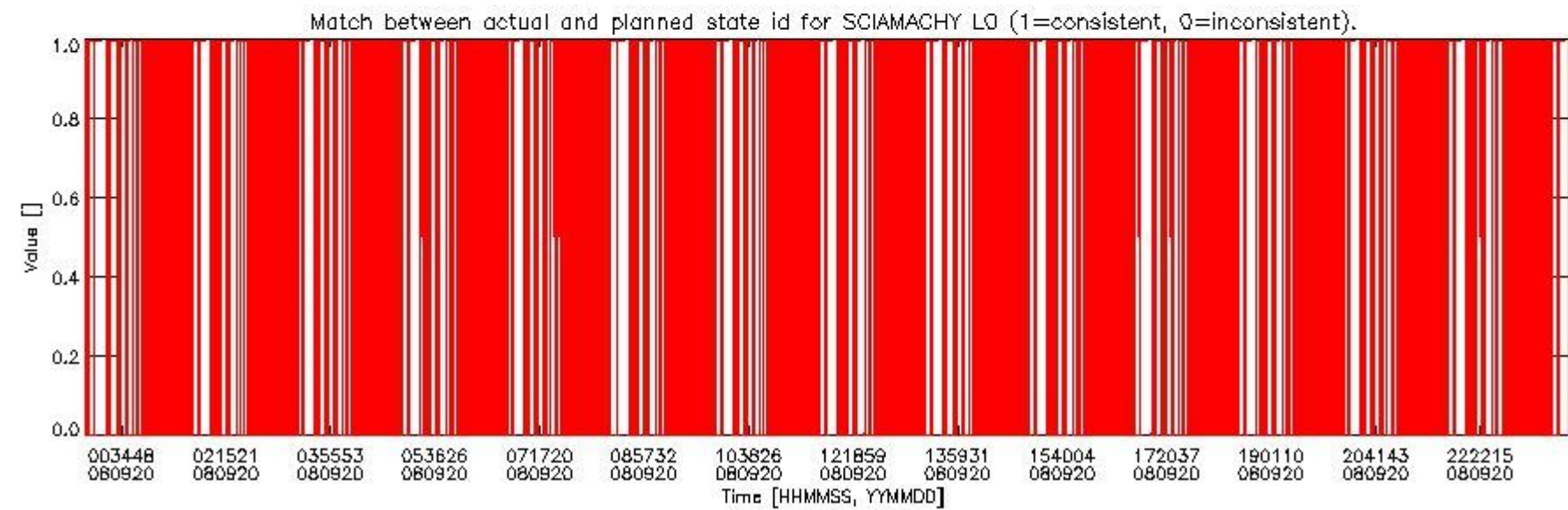
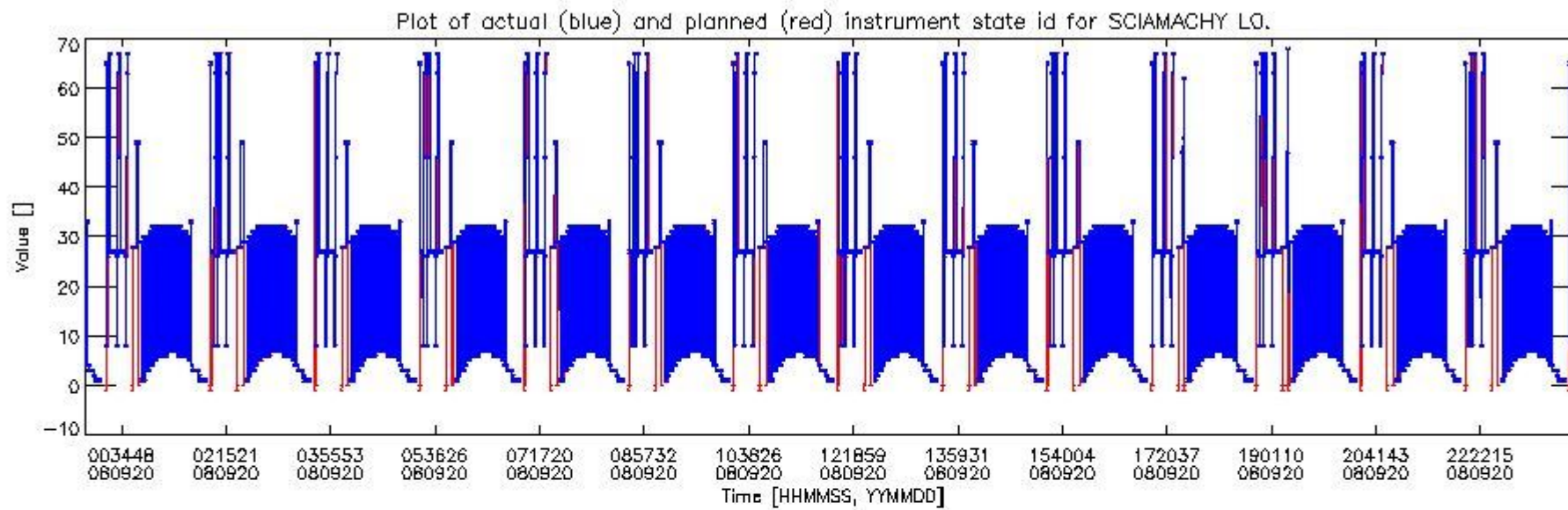


0.3 State monitoring

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: **49109**

#	Actual time	Actual value	Planned time	Planned value
0	20SEP2008 00:00:05.522963	4	20SEP2008 00:00:05.522963	30
1	20SEP2008 00:00:05.772972	4	20SEP2008 00:00:05.772972	30
2	20SEP2008 00:00:05.897976	4	20SEP2008 00:00:05.897976	30
3	20SEP2008 00:00:06.022981	4	20SEP2008 00:00:06.022981	30
4	20SEP2008 00:00:06.147985	4	20SEP2008 00:00:06.147985	30
5	20SEP2008 00:00:06.272949	4	20SEP2008 00:00:06.272949	30
6	20SEP2008 00:00:06.397954	4	20SEP2008 00:00:06.397954	30
7	20SEP2008 00:00:06.522958	4	20SEP2008 00:00:06.522958	30
8	20SEP2008 00:00:06.647962	4	20SEP2008 00:00:06.647962	30
9	20SEP2008 00:00:06.772967	4	20SEP2008 00:00:06.772967	30
10	20SEP2008 00:00:06.897971	4	20SEP2008 00:00:06.897971	30
11	20SEP2008 00:00:07.022975	4	20SEP2008 00:00:07.022975	30
12	20SEP2008 00:00:07.147980	4	20SEP2008 00:00:07.147980	30
13	20SEP2008 00:00:07.272984	4	20SEP2008 00:00:07.272984	30
14	20SEP2008 00:00:07.397948	4	20SEP2008 00:00:07.397948	30
15	20SEP2008 00:00:07.522953	4	20SEP2008 00:00:07.522953	30
16	20SEP2008 00:00:07.647957	4	20SEP2008 00:00:07.647957	30
17	20SEP2008 00:00:07.772961	4	20SEP2008 00:00:07.772961	30
18	20SEP2008 00:00:07.897966	4	20SEP2008 00:00:07.897966	30
19	20SEP2008 00:00:08.022970	4	20SEP2008 00:00:08.022970	30

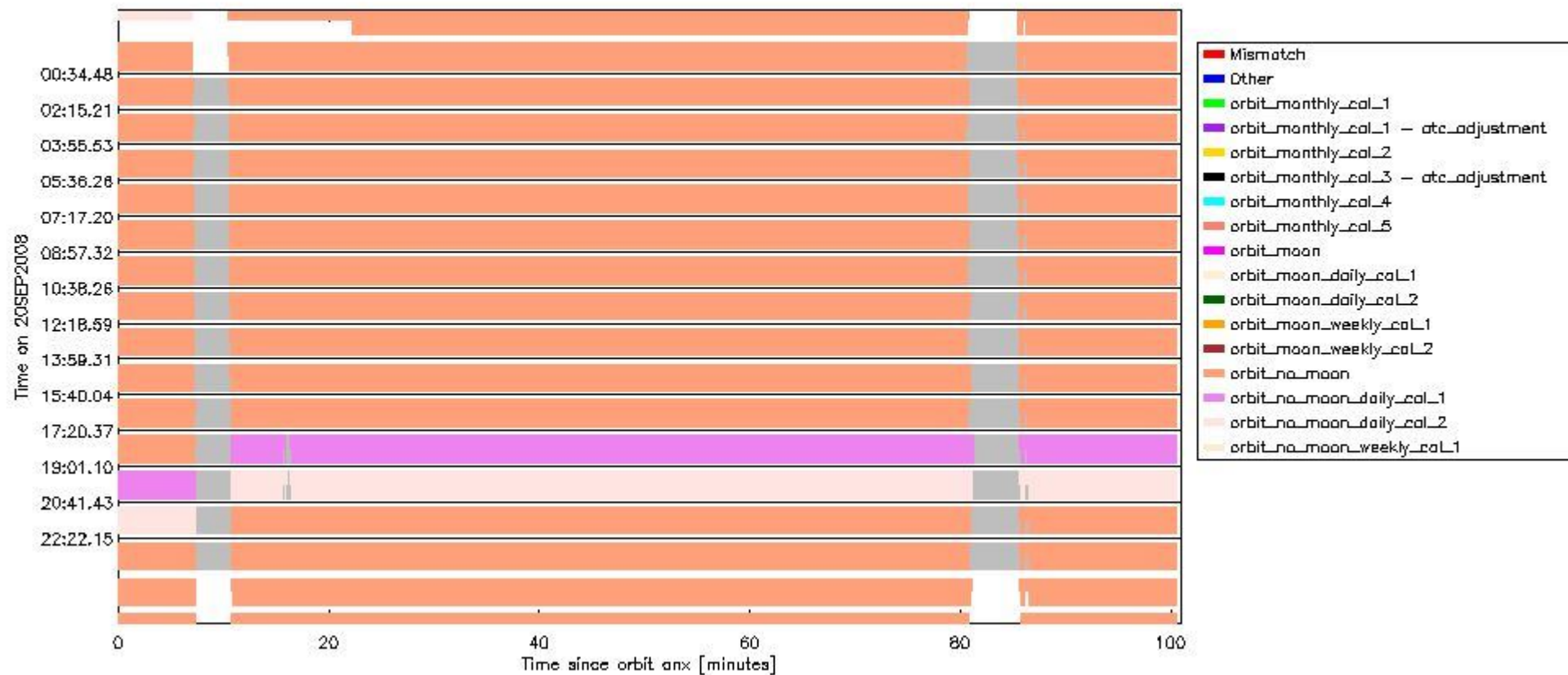


sciamachy_daily_report_level0_KSPT_L0_4303_N_20080920_5.PNG

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 20SEP2008.
 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_20080920_6.PNG

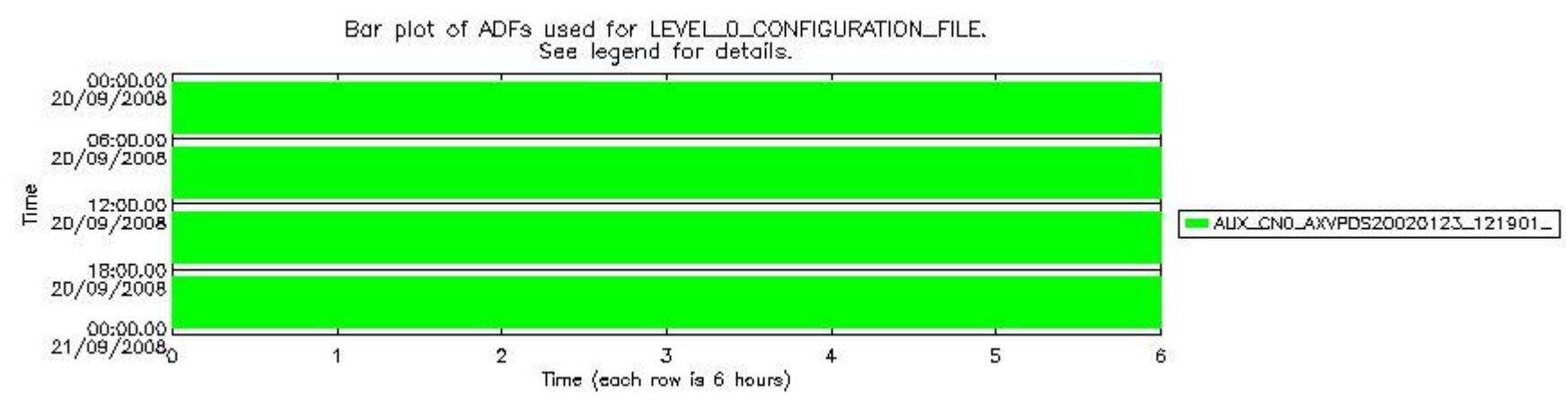
0.4 ADF monitoring

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

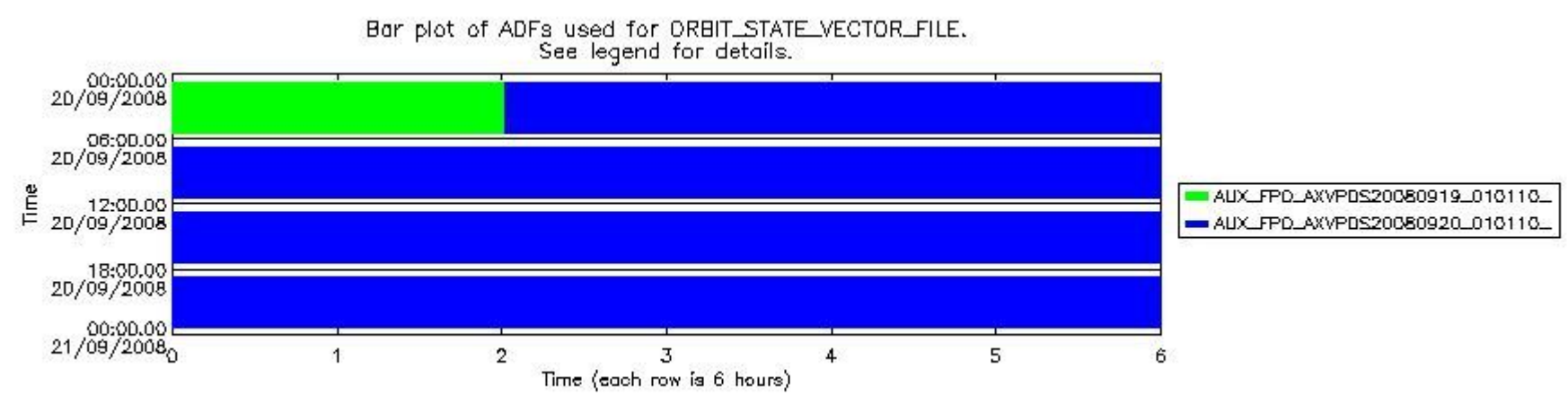
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

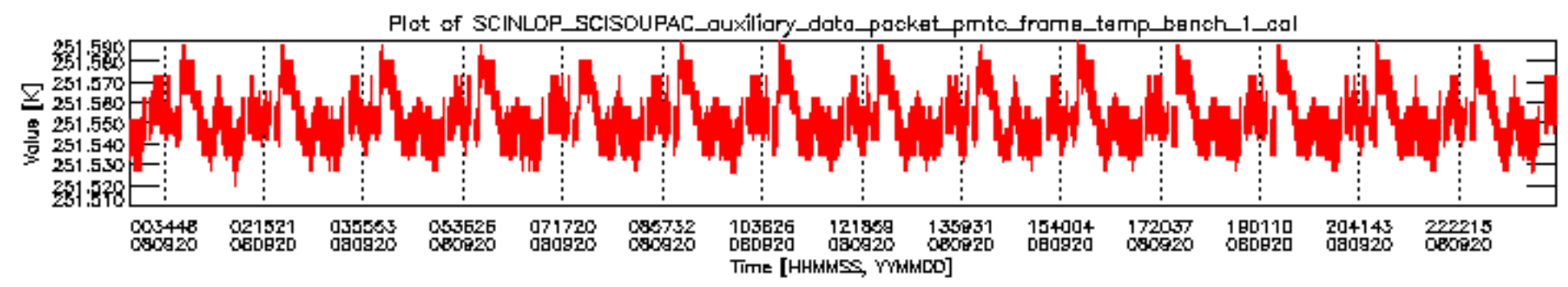
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20080919_010110_20080918_182354_20080928_213045
2	AUX_FPO_AXVPDS20080920_010110_20080919_193254_20080929_205908

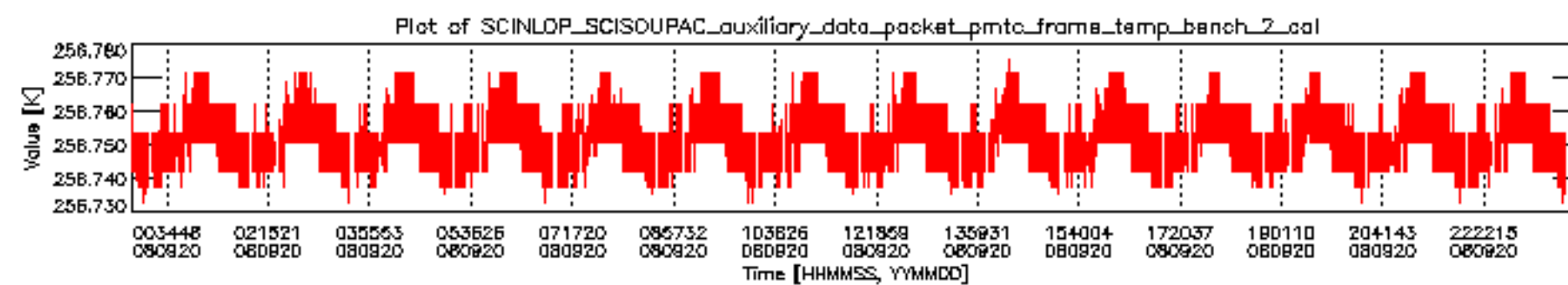


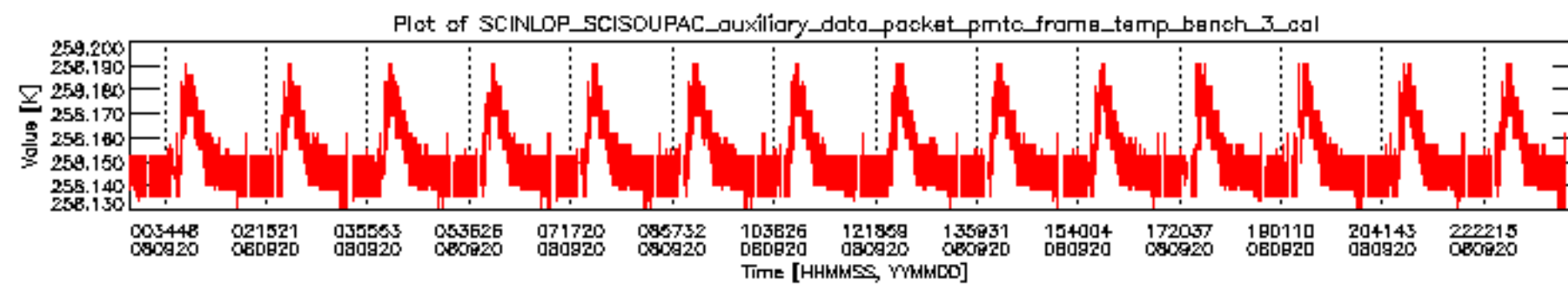
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080920_7.PNG

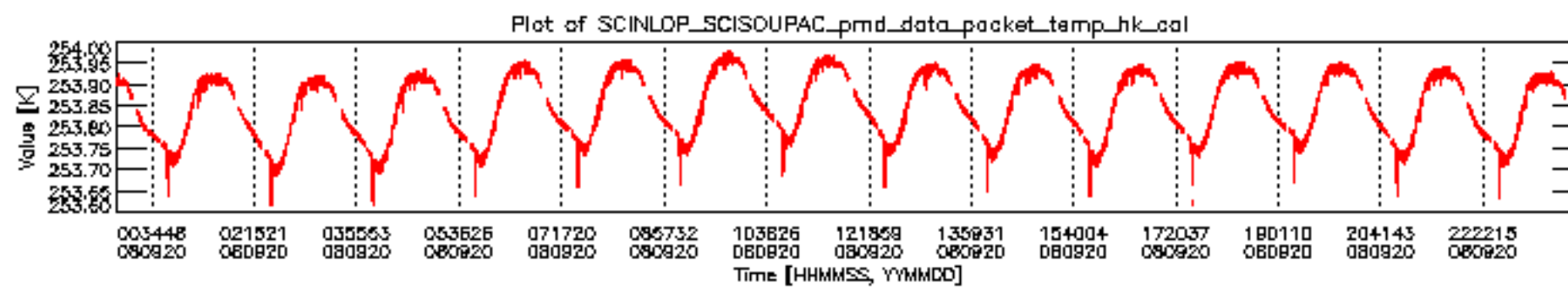


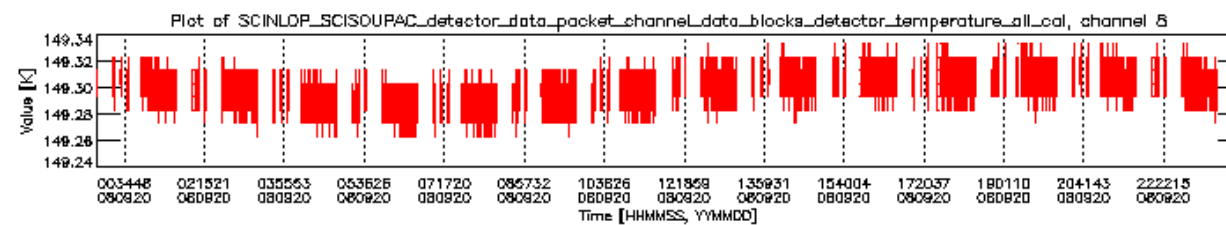
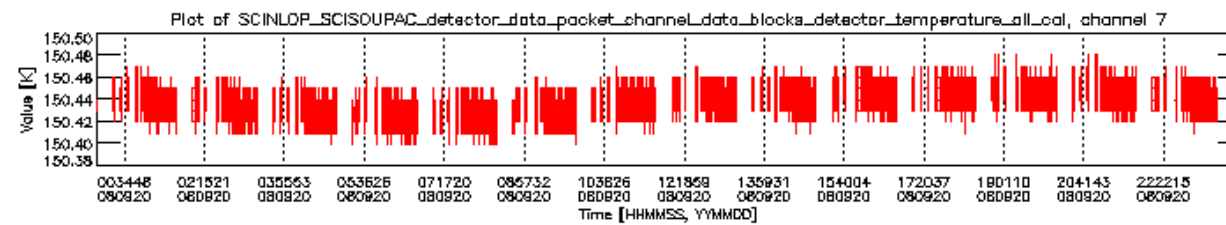
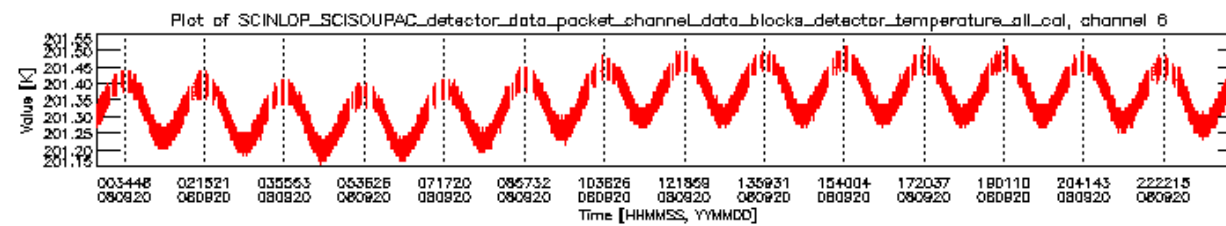
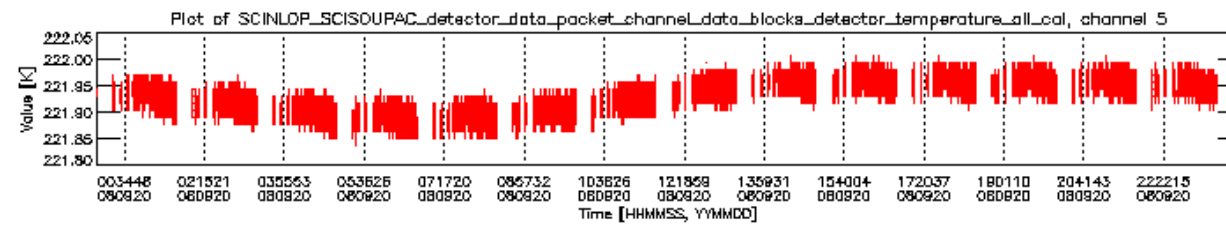
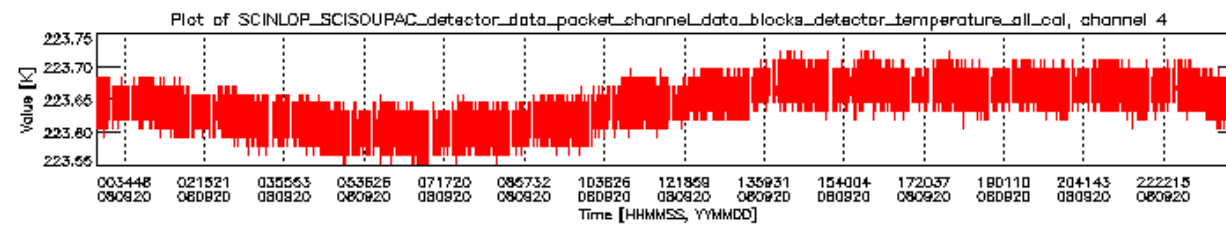
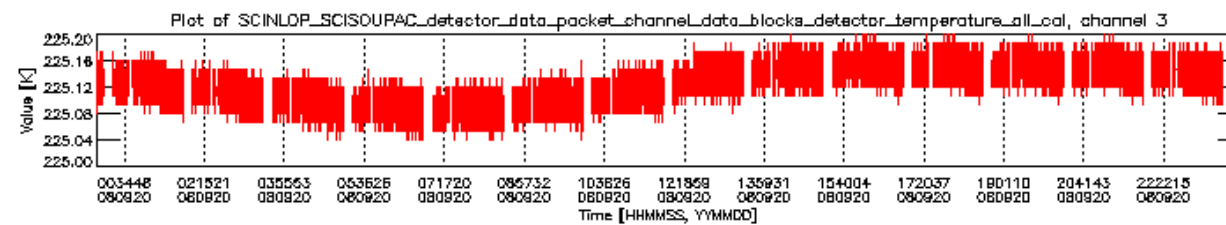
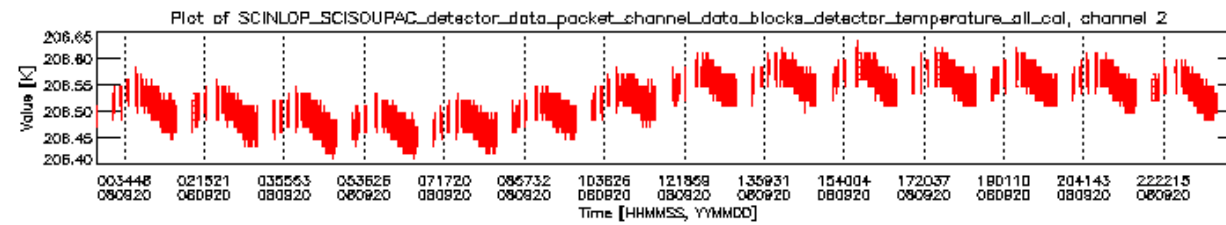
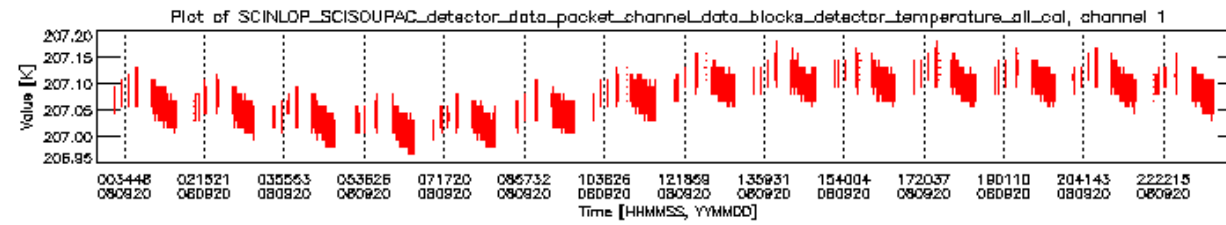
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080920_8.PNG

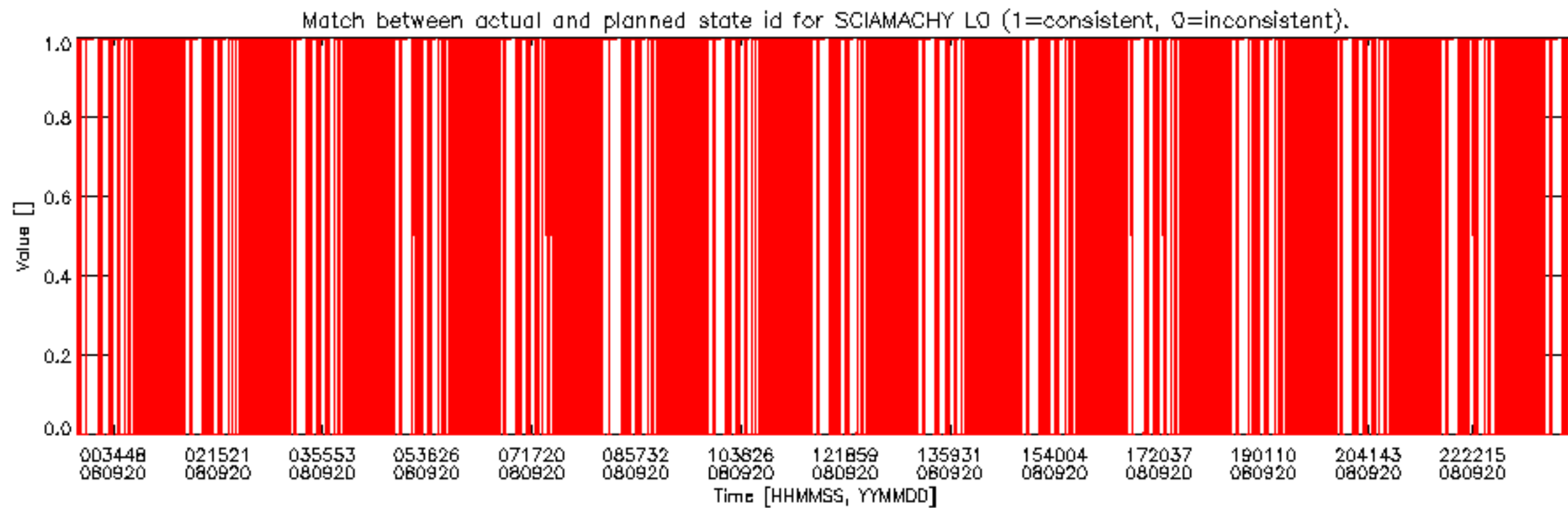
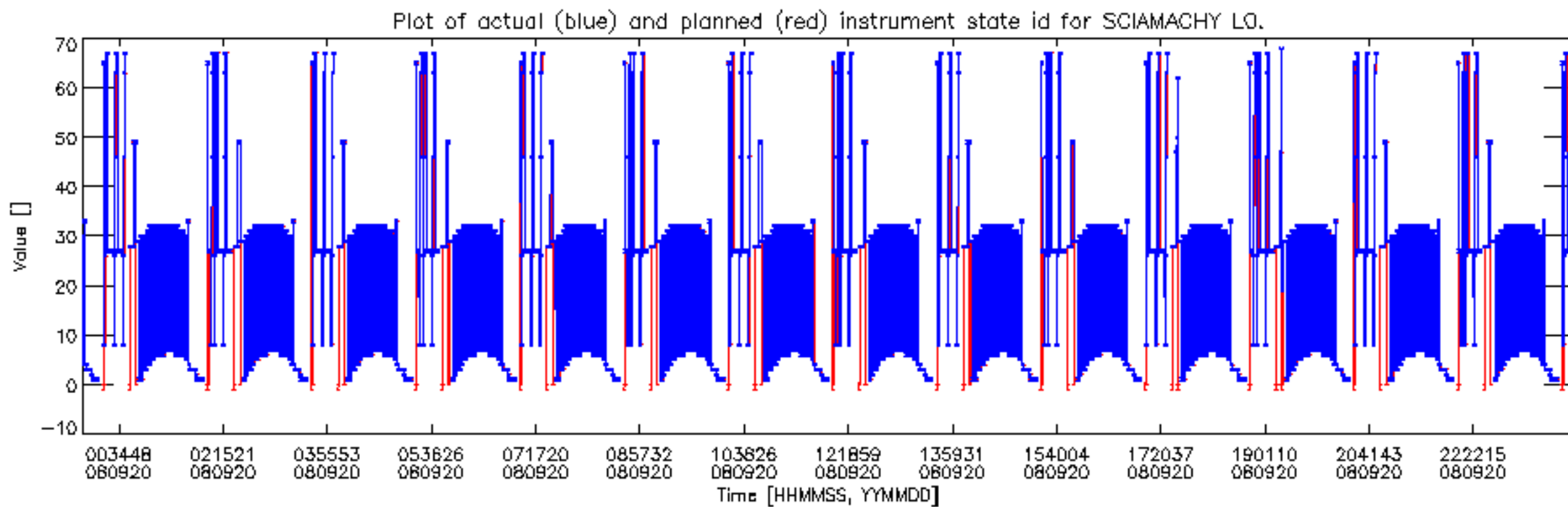












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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