

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	25MAY2009 17:04:11
Data source version	KSPT_L0/4303-N
Processing scope for products	15MAY2009 00:00:00 to 16MAY2009 00:00:00
Start time of first product within scope	14MAY2009 23:32:55
Stop time of last product within scope	16MAY2009 00:43:49
Total number of level 0 products	15
Number of level 0 products with errors	3

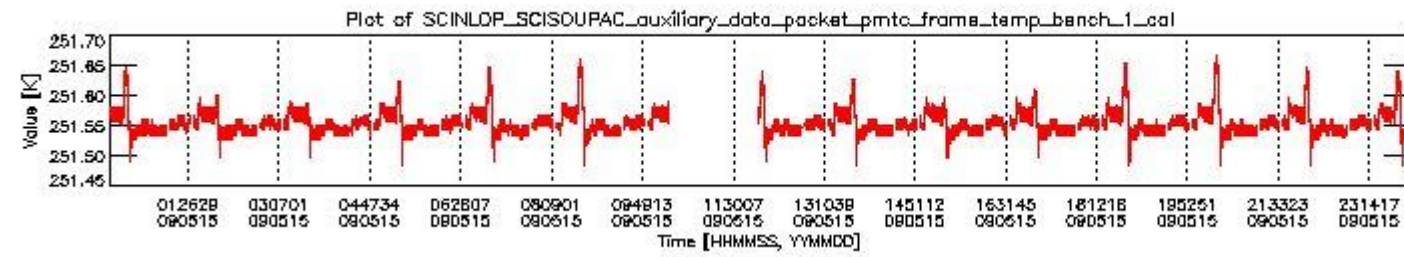
0.1.2 Summary per product

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

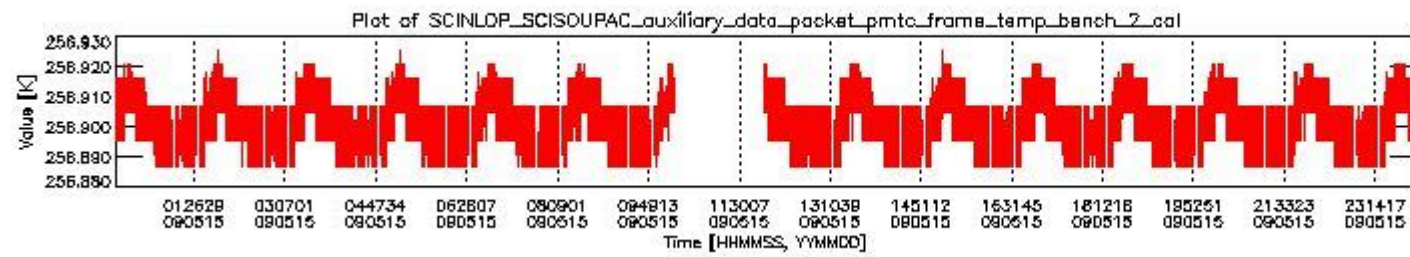
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090514_233255_000060722079_00044_37673_9145.N1	14MAY2009 23:32:55	15MAY2009 01:14:07	0	0	0	0	0
1	SCI_NL__OPNPDE20090515_011246_000046672079_00045_37674_9146.N1	15MAY2009 01:12:46	15MAY2009 02:30:33	0	0	0	0	0
2	SCI_NL__OPNPDE20090515_023033_000058552079_00046_37675_9147.N1	15MAY2009 02:30:33	15MAY2009 04:08:08	0	0	0	0	0
3	SCI_NL__OPNPDE20090515_040700_000060922079_00047_37676_9148.N1	15MAY2009 04:07:00	15MAY2009 05:48:31	0	0	0	0	0
4	SCI_NL__OPNPDK20090515_054831_000040582079_00048_37677_1539.N1	15MAY2009 05:48:31	15MAY2009 06:56:09	0	0	0	0	0
5	SCI_NL__OPNPDK20090515_065609_000060922079_00049_37678_1540.N1	15MAY2009 06:56:09	15MAY2009 08:37:40	0	0	0	0	0
6	SCI_NL__OPNPDK20090515_083740_000060362079_00050_37679_1541.N1	15MAY2009 08:37:40	15MAY2009 10:18:16	1	1	0	0	0
7	SCI_NL__OPNPDK20090515_115647_000059112079_00052_37681_1543.N1	15MAY2009 11:56:47	15MAY2009 13:35:18	0	0	0	0	0
8	SCI_NL__OPNPDK20090515_133518_000059672079_00053_37682_1544.N1	15MAY2009 13:35:18	15MAY2009 15:14:45	0	0	0	0	0
9	SCI_NL__OPNPDK20090515_151445_000058002079_00054_37683_1545.N1	15MAY2009 15:14:45	15MAY2009 16:51:25	1	1	0	0	0
10	SCI_NL__OPNPDK20090515_165016_000059272079_00055_37684_1546.N1	15MAY2009 16:50:16	15MAY2009 18:29:03	1	1	0	0	0
11	SCI_NL__OPNPDK20090515_182755_000061732079_00056_37685_1547.N1	15MAY2009 18:27:55	15MAY2009 20:10:48	0	0	0	0	0
12	SCI_NL__OPNPDE20090515_200939_000042962079_00057_37686_9149.N1	15MAY2009 20:09:39	15MAY2009 21:21:15	0	0	0	0	0
13	SCI_NL__OPNPDE20090515_211954_000062122079_00057_37686_9150.N1	15MAY2009 21:19:54	15MAY2009 23:03:26	0	0	0	0	0
14	SCI_NL__OPNPDE20090515_230242_000060672079_00058_37687_9151.N1	15MAY2009 23:02:42	16MAY2009 00:43:49	0	0	0	0	0

0.2 Product Quality Indicators

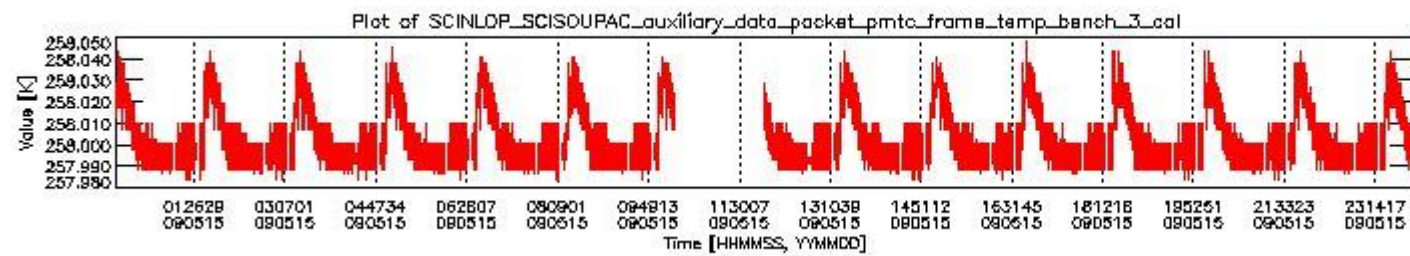
This section shows information about product quality, currently temperatures.



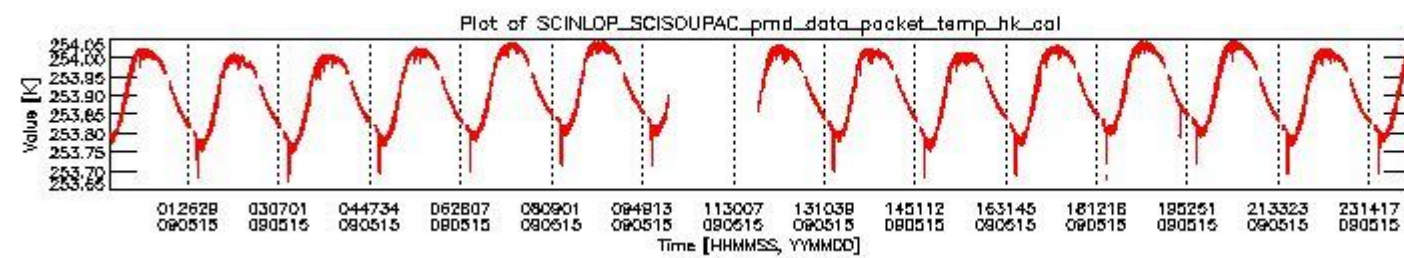
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090515_0.PNG



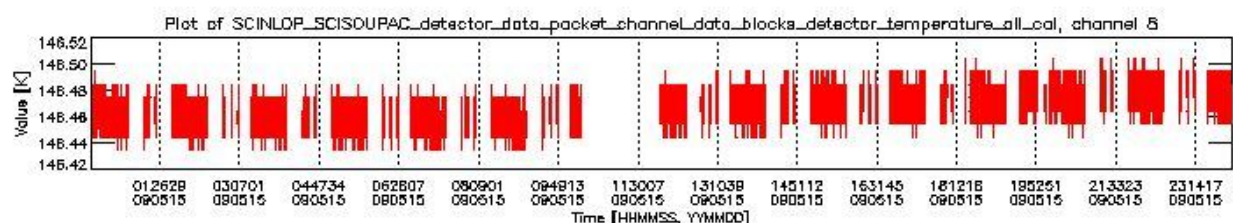
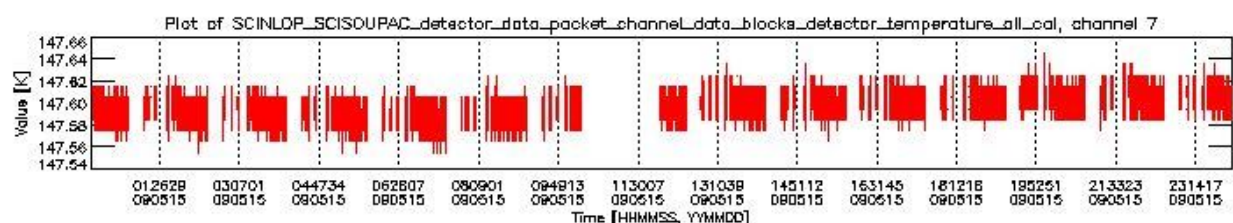
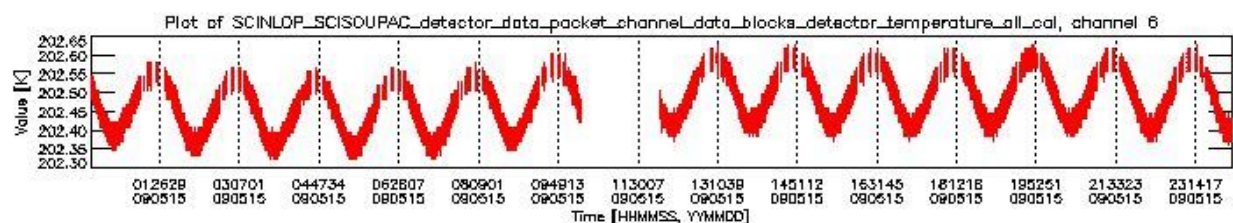
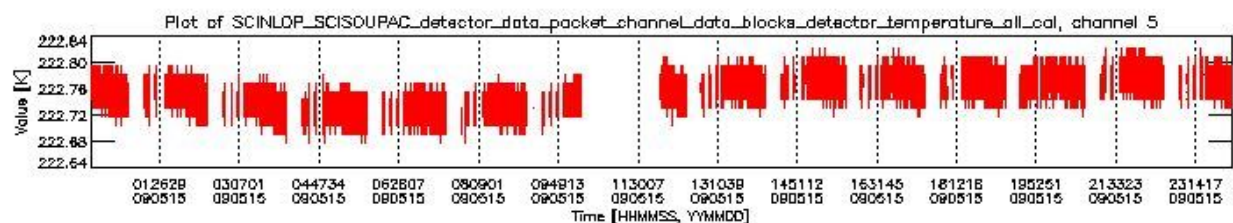
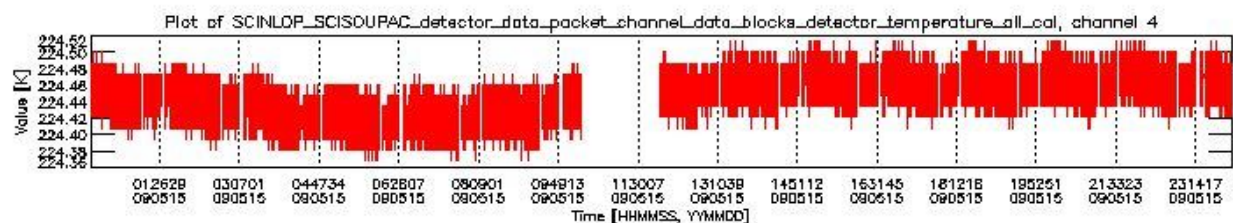
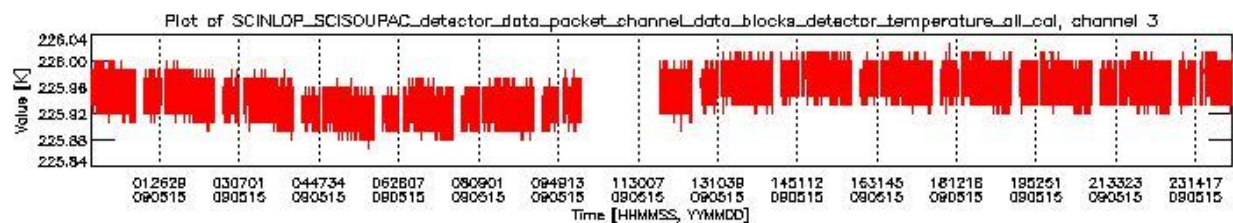
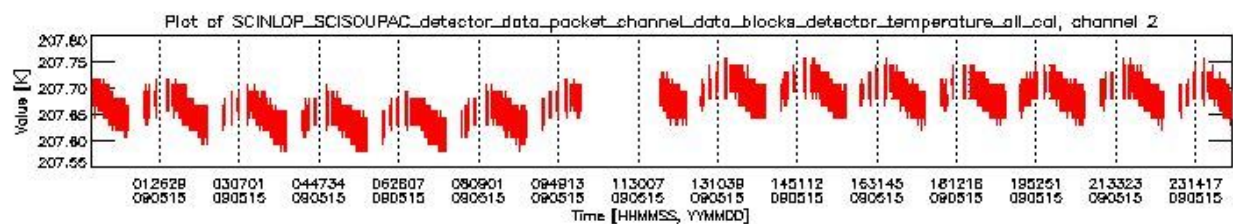
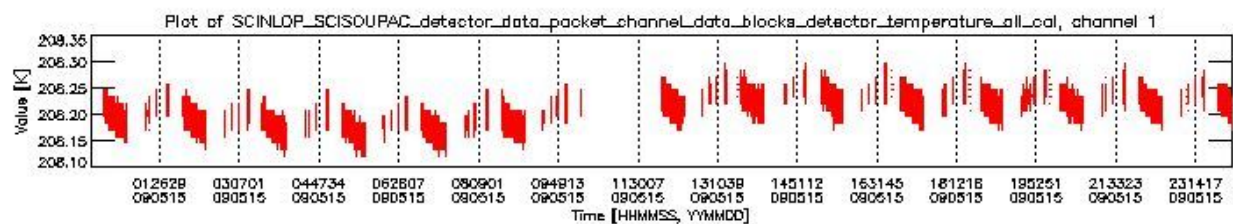
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090515_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20090515_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20090515_3.PNG

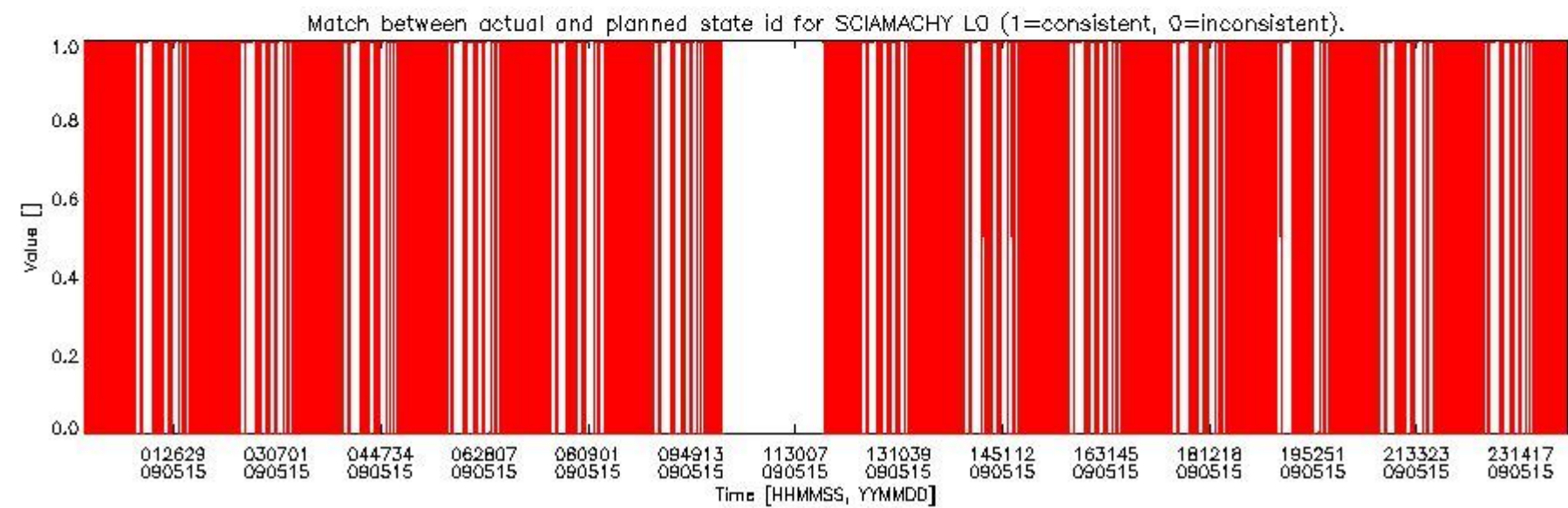
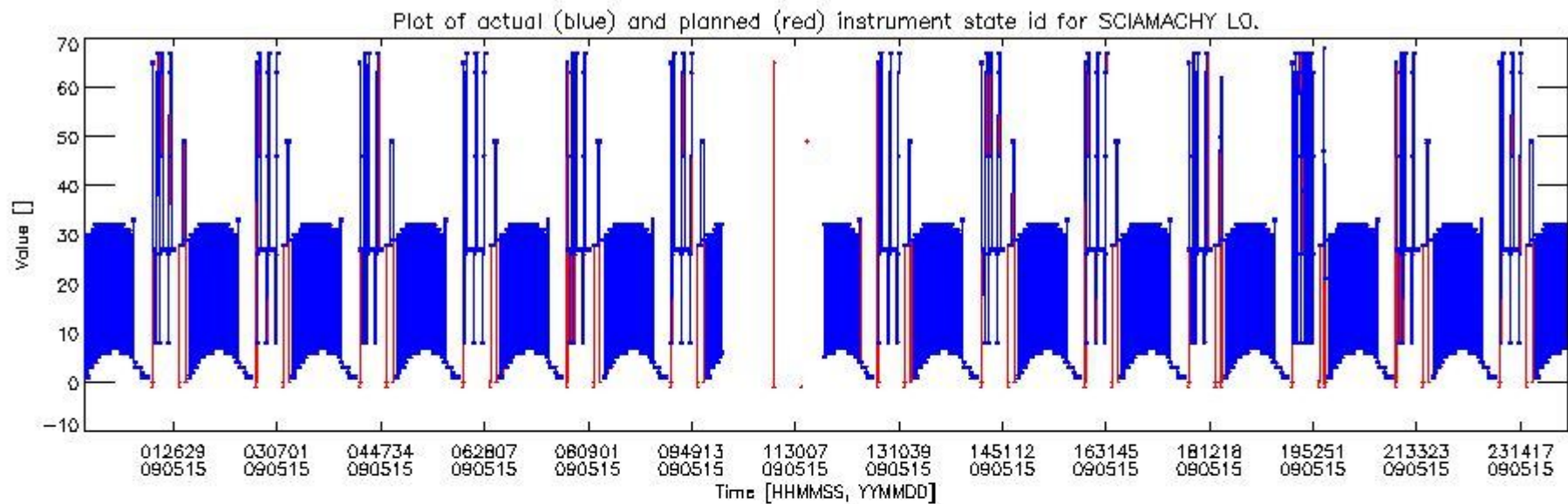


0.3 State monitoring

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: **43791**

#	Actual time	Actual value	Planned time	Planned value
0	15MAY2009 00:00:11.484227	1	15MAY2009 00:00:11.484227	29
1	15MAY2009 00:00:11.734235	1	15MAY2009 00:00:11.734235	29
2	15MAY2009 00:00:11.859199	1	15MAY2009 00:00:11.859199	29
3	15MAY2009 00:00:11.984204	1	15MAY2009 00:00:11.984204	29
4	15MAY2009 00:00:12.109208	1	15MAY2009 00:00:12.109208	29
5	15MAY2009 00:00:12.234212	1	15MAY2009 00:00:12.234212	29
6	15MAY2009 00:00:12.359217	1	15MAY2009 00:00:12.359217	29
7	15MAY2009 00:00:12.484221	1	15MAY2009 00:00:12.484221	29
8	15MAY2009 00:00:12.609226	1	15MAY2009 00:00:12.609226	29
9	15MAY2009 00:00:12.734230	1	15MAY2009 00:00:12.734230	29
10	15MAY2009 00:00:12.859234	1	15MAY2009 00:00:12.859234	29
11	15MAY2009 00:00:12.984198	1	15MAY2009 00:00:12.984198	29
12	15MAY2009 00:00:13.109203	1	15MAY2009 00:00:13.109203	29
13	15MAY2009 00:00:13.234207	1	15MAY2009 00:00:13.234207	29
14	15MAY2009 00:00:13.359211	1	15MAY2009 00:00:13.359211	29
15	15MAY2009 00:00:13.484216	1	15MAY2009 00:00:13.484216	29
16	15MAY2009 00:00:13.609220	1	15MAY2009 00:00:13.609220	29
17	15MAY2009 00:00:13.734224	1	15MAY2009 00:00:13.734224	29
18	15MAY2009 00:00:13.859229	1	15MAY2009 00:00:13.859229	29
19	15MAY2009 00:00:13.984233	1	15MAY2009 00:00:13.984233	29
...

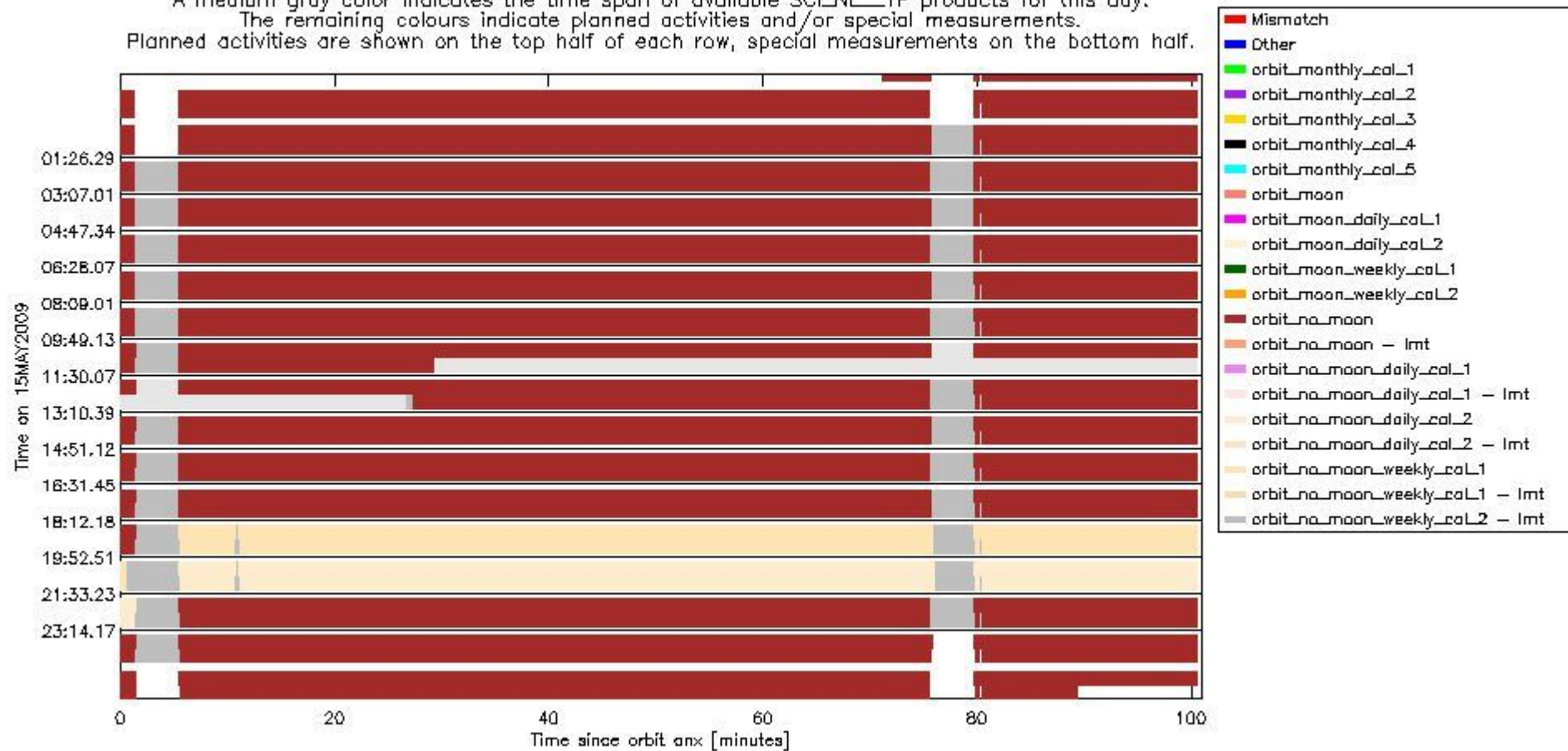


sciamachy_daily_report_level0_KSPT_L0_4303_N_20090515_5.PNG

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 15MAY2009.
 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_20090515_6.PNG

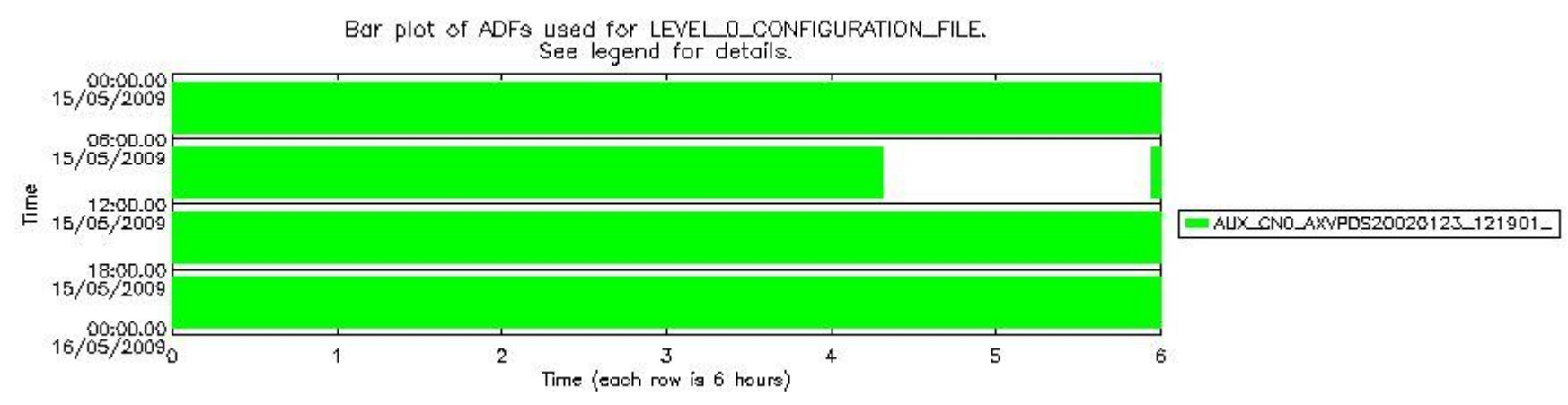
0.4 ADF monitoring

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

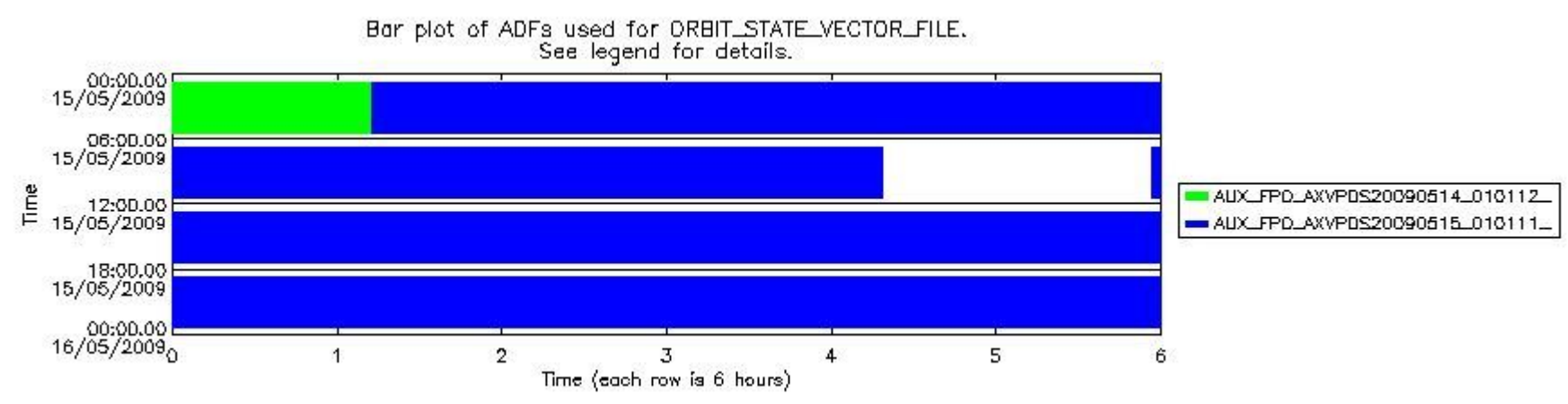
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

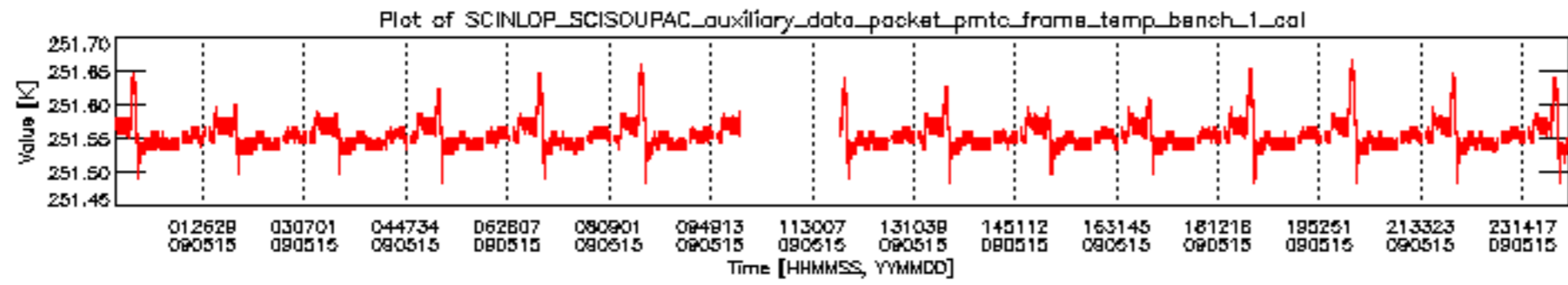
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20090514_010112_20090513_191538_20090523_204152
2	AUX_FPO_AXVPDS20090515_010111_20090514_184401_20090524_201015

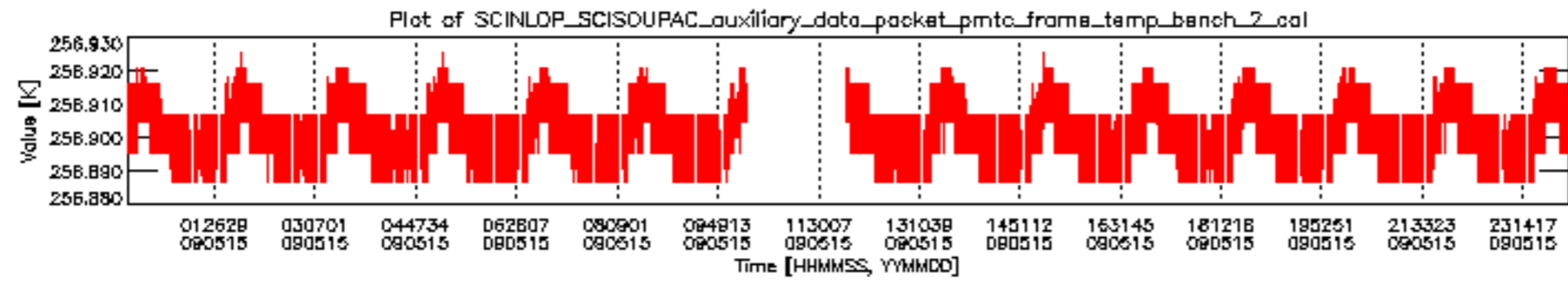


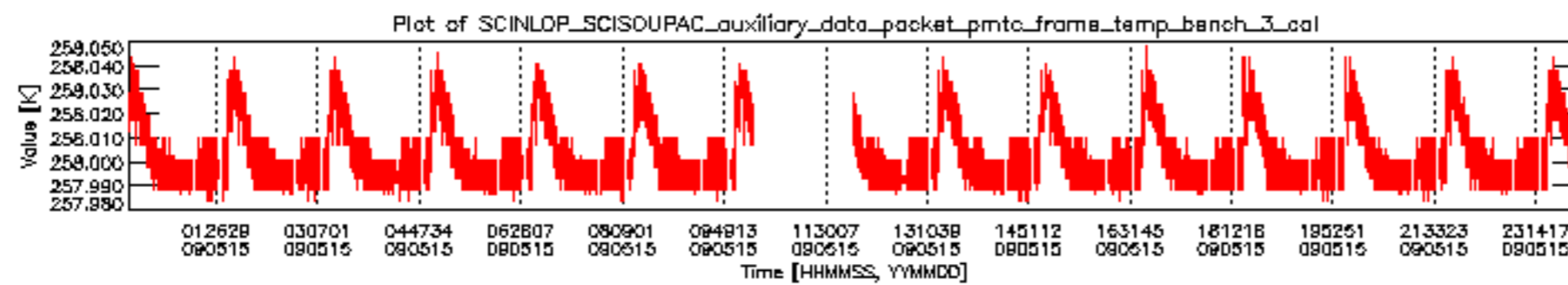
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090515_7.PNG

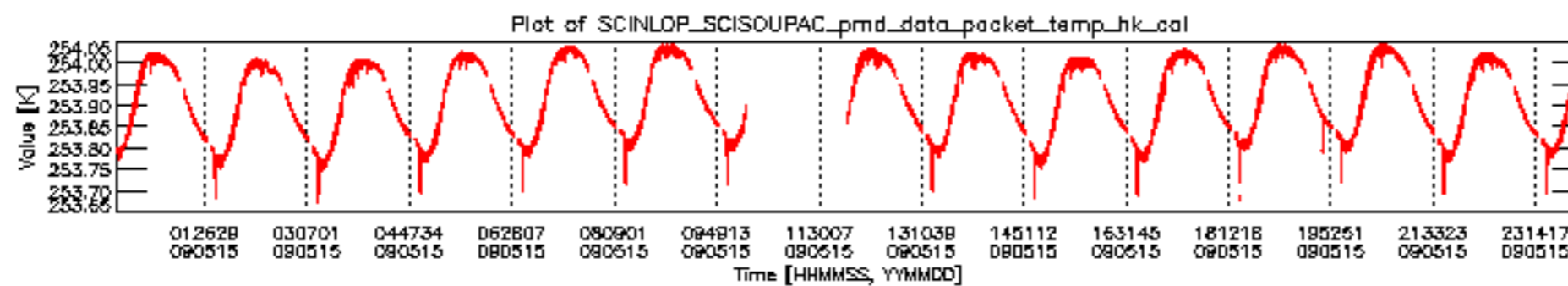


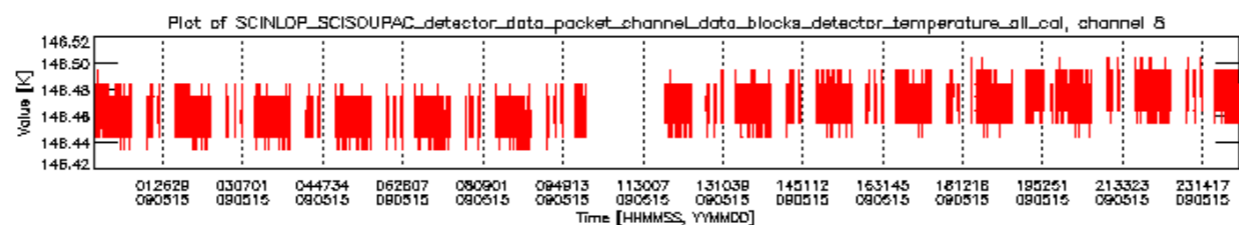
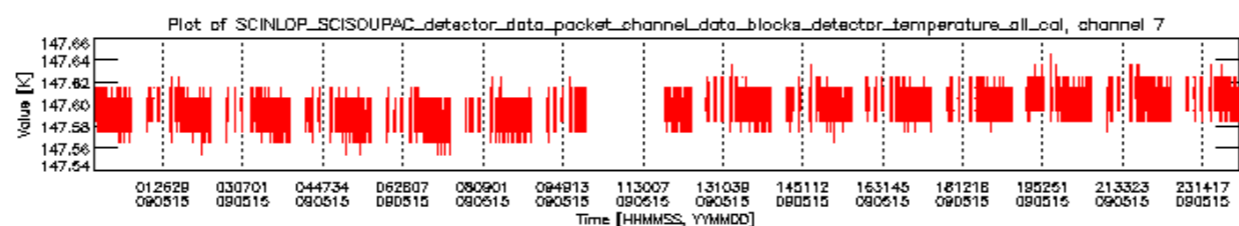
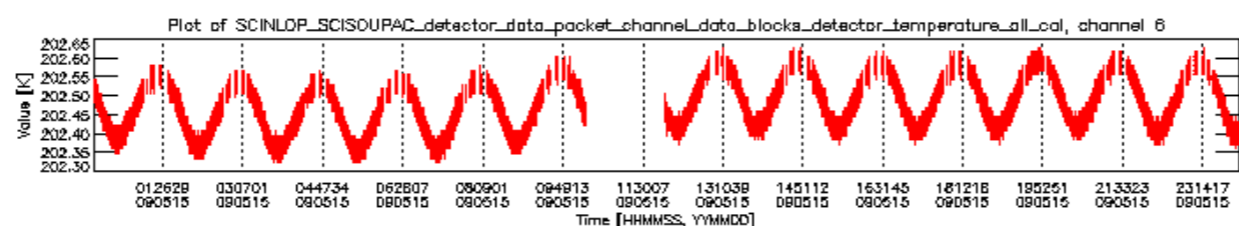
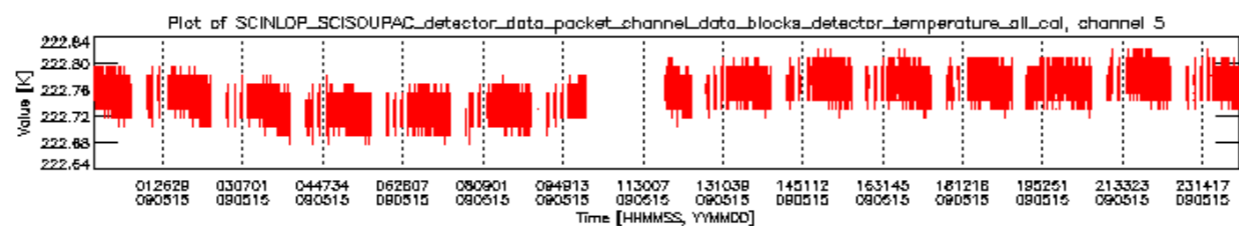
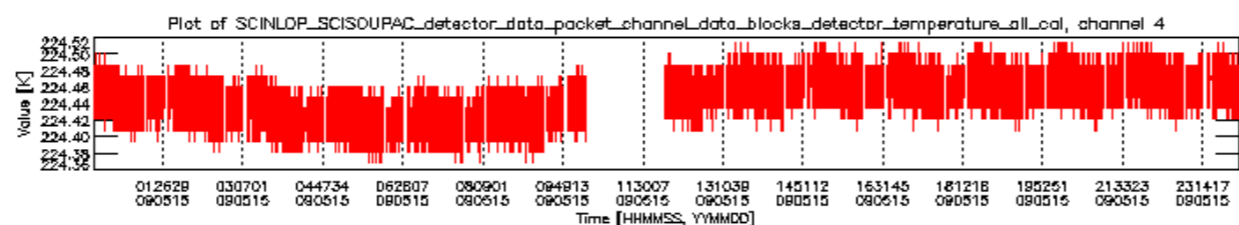
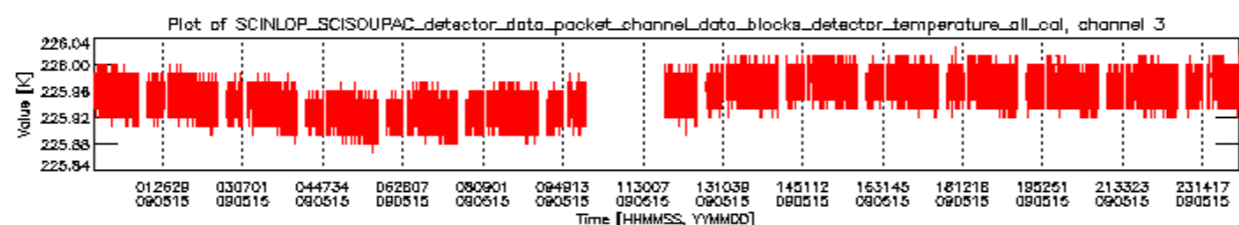
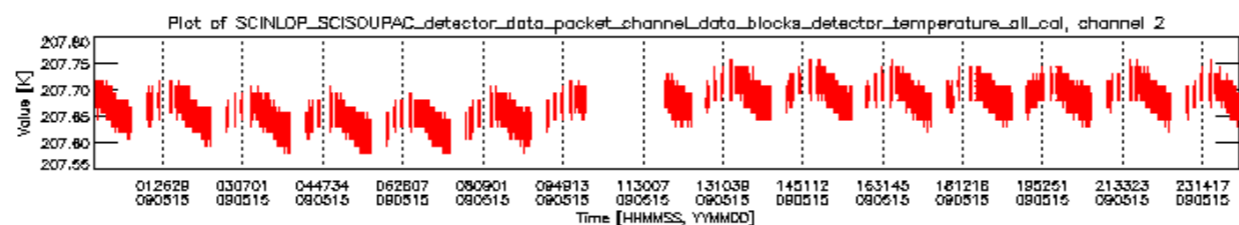
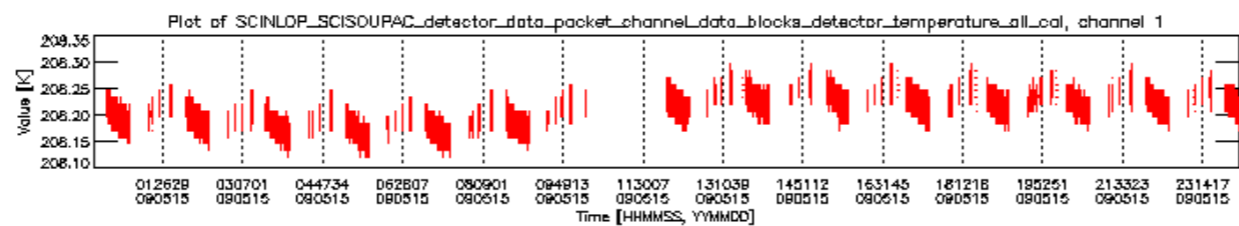
sciamachy_daily_report_level0_KSPT_L0_4303_N_20090515_8.PNG

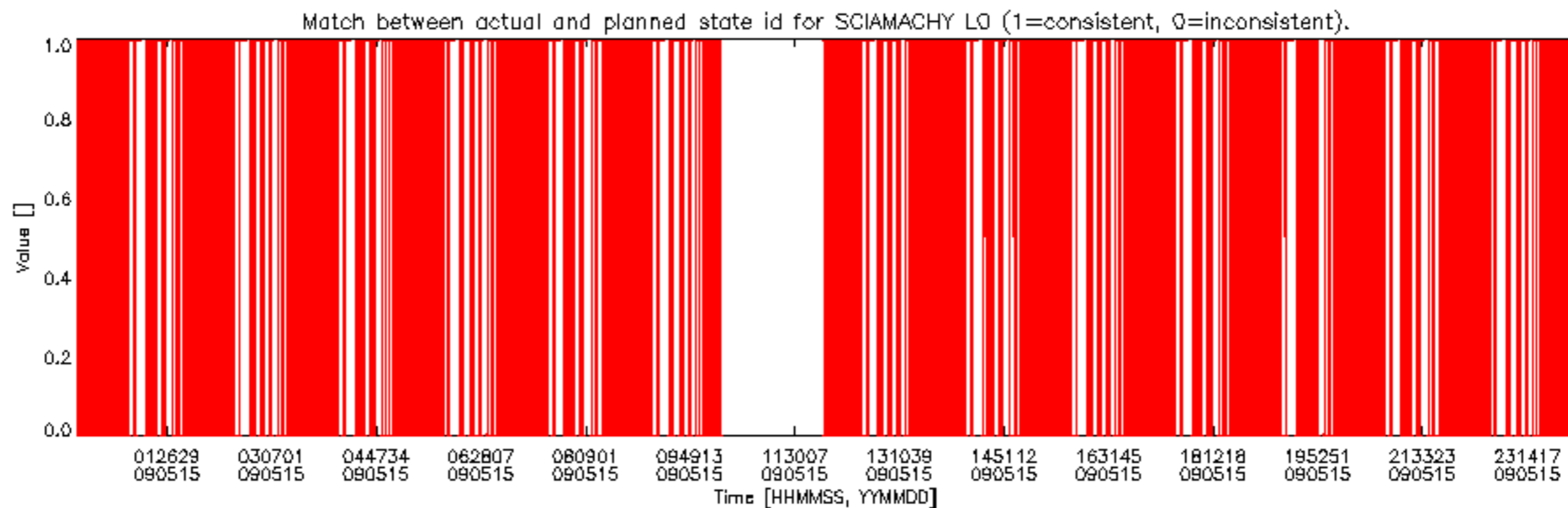
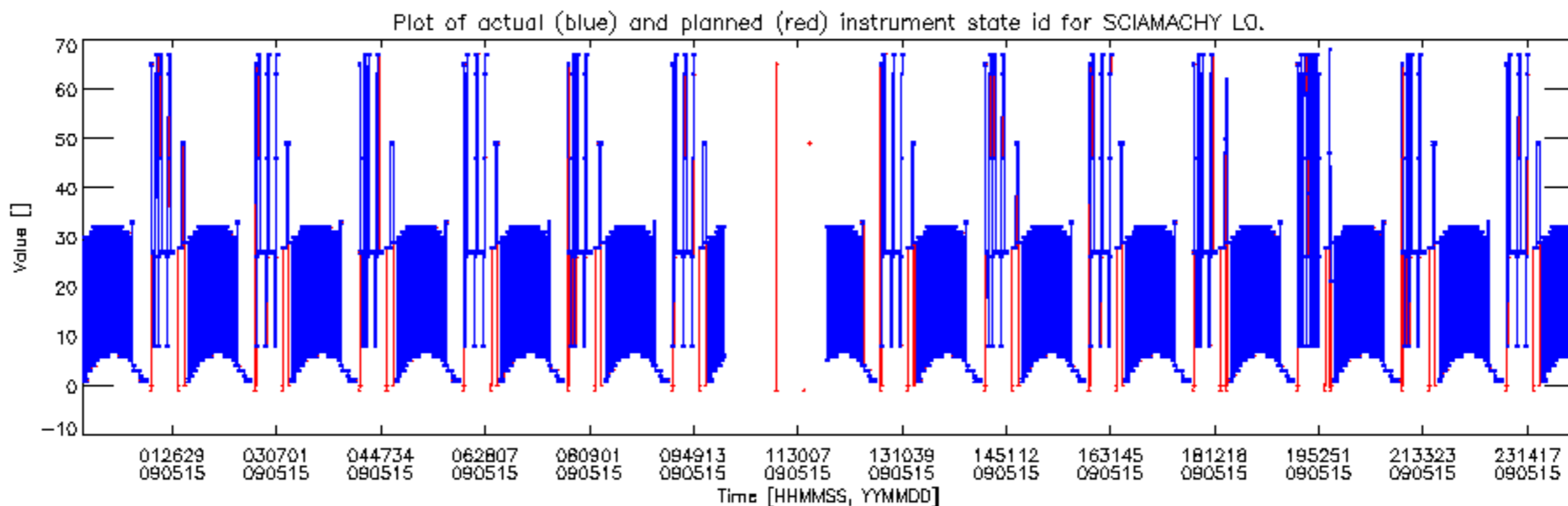












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