

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	v1.4 20100407
Time of report generation	27JAN2011 16:59:35
Data source version	KSPT_L0/4504-N
Processing scope for products	01JAN2011 00:00:00 to 02JAN2011 00:00:00
Start time of first product within scope	01JAN2011 01:22:41
Stop time of last product within scope	02JAN2011 00:47:04
Total number of Level 0 products	14
Number of Level 0 products with errors	1

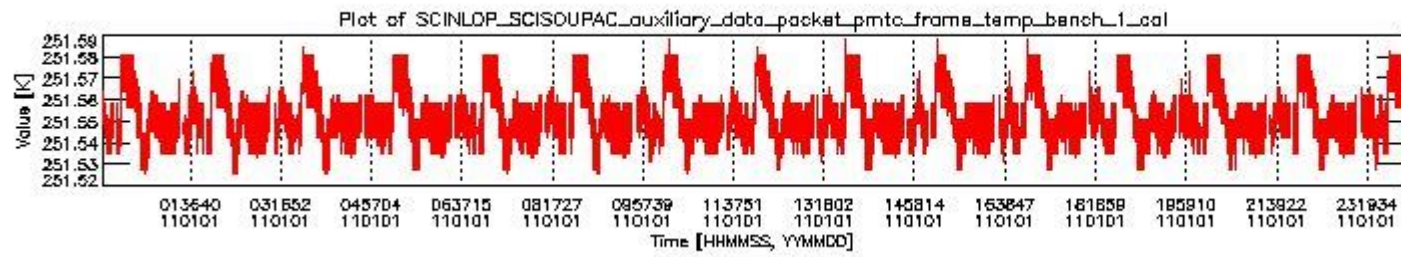
0.1.2 Summary per product

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

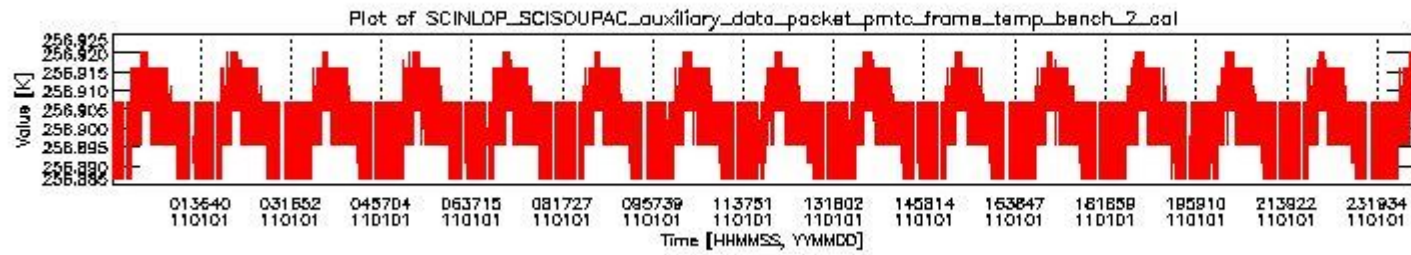
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110101_012241_000103603098_00074_46209_2275.N1	01JAN2011 01:22:41	01JAN2011 04:15:21	0	0	0	0	0
1	SCI_NL__OPNPDE20110101_041413_000061913098_00076_46211_2276.N1	01JAN2011 04:14:13	01JAN2011 05:57:23	0	0	0	0	0
2	SCI_NL__OPNPDK20110101_055723_000041193098_00077_46212_3413.N1	01JAN2011 05:57:23	01JAN2011 07:06:02	0	0	0	0	0
3	SCI_NL__OPNPDK20110101_070508_000059993098_00078_46213_3414.N1	01JAN2011 07:05:08	01JAN2011 08:45:07	0	0	0	0	0
4	SCI_NL__OPNPDK20110101_084319_000060683098_00079_46214_3415.N1	01JAN2011 08:43:19	01JAN2011 10:24:27	0	0	0	0	0
5	SCI_NL__OPNPDK20110101_102239_000061223098_00080_46215_3416.N1	01JAN2011 10:22:39	01JAN2011 12:04:41	0	0	0	0	0
6	SCI_NL__OPNPDK20110101_120347_000059053098_00081_46216_3417.N1	01JAN2011 12:03:47	01JAN2011 13:42:12	0	0	0	0	0
7	SCI_NL__OPNPDK20110101_133954_000060143098_00082_46217_3418.N1	01JAN2011 13:39:54	01JAN2011 15:20:08	0	0	0	0	0
8	SCI_NL__OPNPDK20110101_152008_000060143098_00083_46218_3419.N1	01JAN2011 15:20:08	01JAN2011 17:00:22	0	0	0	0	0
9	SCI_NL__OPNPDK20110101_170022_000055823098_00084_46219_3420.N1	01JAN2011 17:00:22	01JAN2011 18:33:24	1	1	0	0	0
10	SCI_NL__OPNPDK20110101_183658_000057603098_00085_46220_3421.N1	01JAN2011 18:36:58	01JAN2011 20:12:58	0	0	0	0	0
11	SCI_NL__OPNPDE20110101_201258_000043003098_00086_46221_2277.N1	01JAN2011 20:12:58	01JAN2011 21:24:38	0	0	0	0	0
12	SCI_NL__OPNPDE20110101_212330_000061863098_00086_46221_2278.N1	01JAN2011 21:23:30	01JAN2011 23:06:36	0	0	0	0	0
13	SCI_NL__OPNPDE20110101_230636_000060283098_00087_46222_2279.N1	01JAN2011 23:06:36	02JAN2011 00:47:04	0	0	0	0	0

0.2 Product Quality Indicators

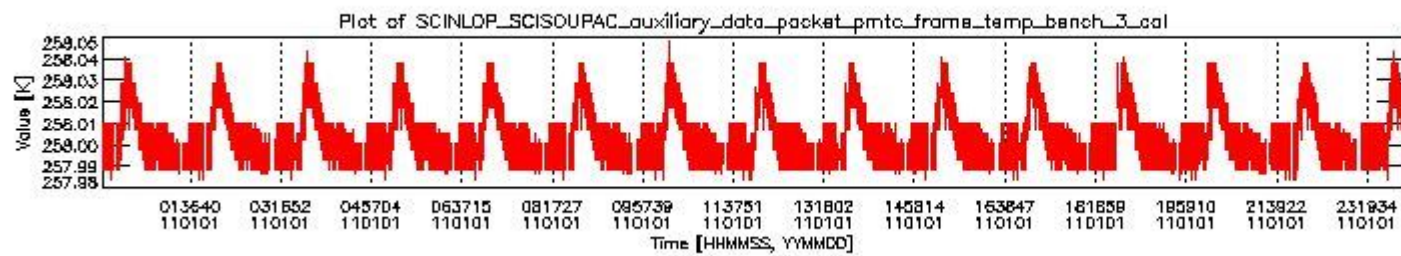
This section shows information about product quality, currently temperatures.



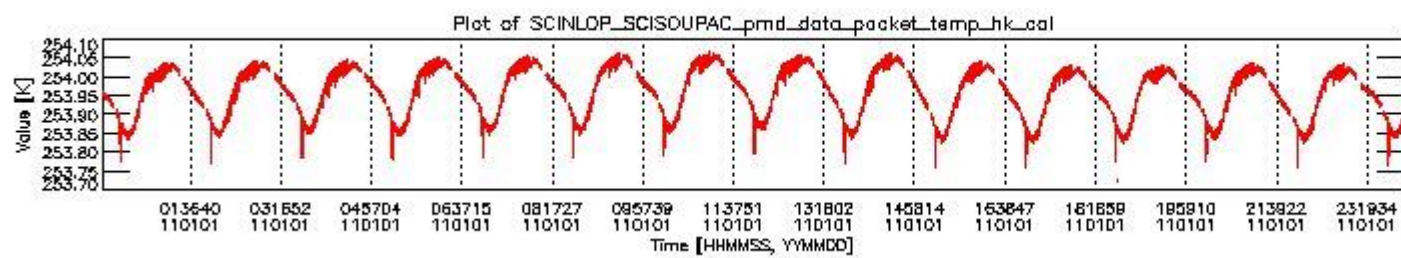
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110101_0.PNG



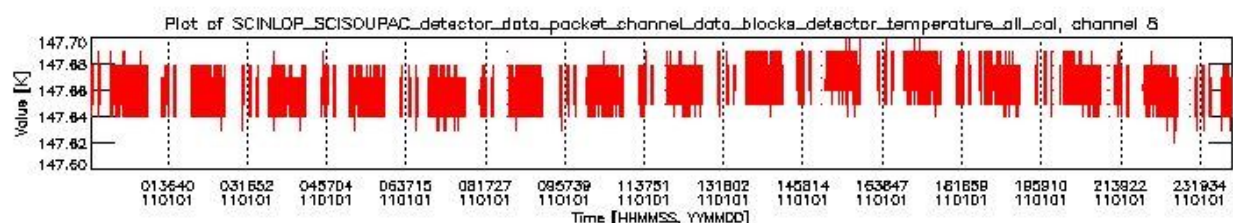
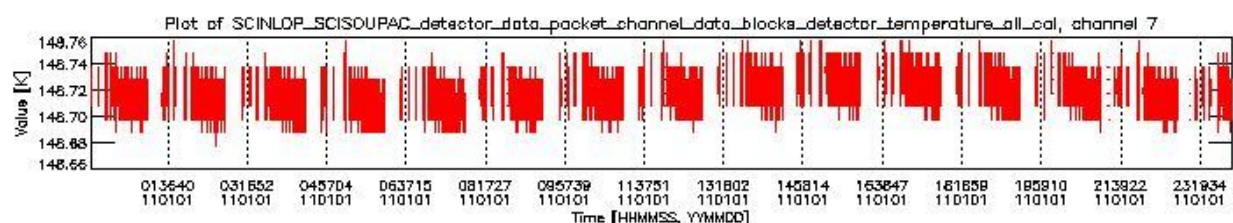
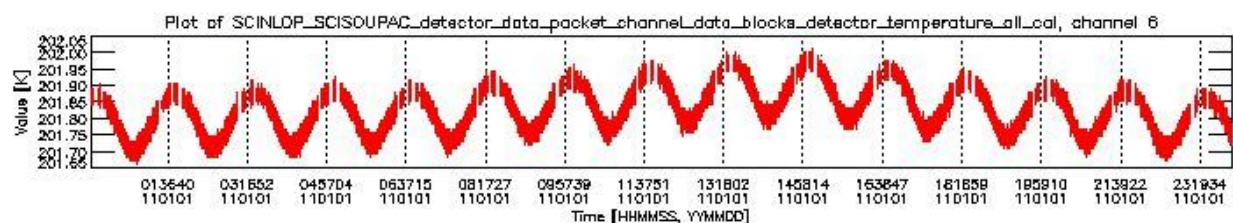
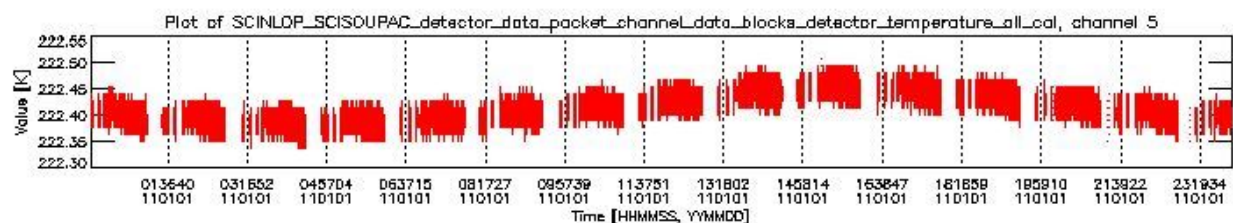
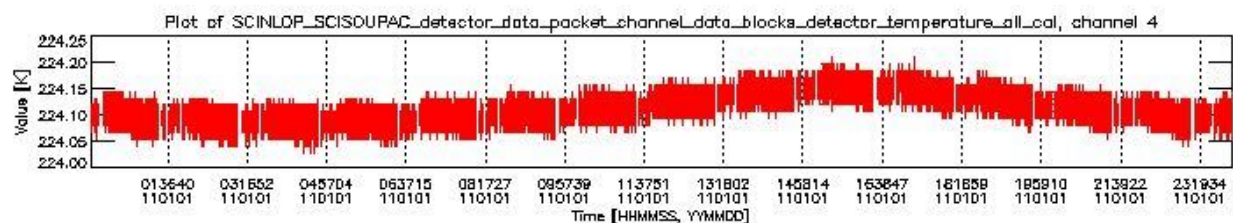
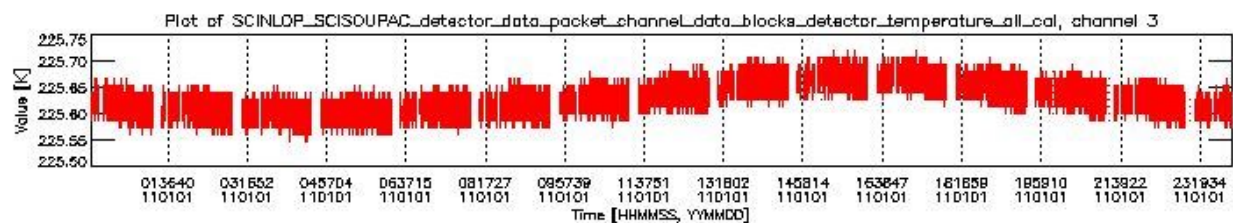
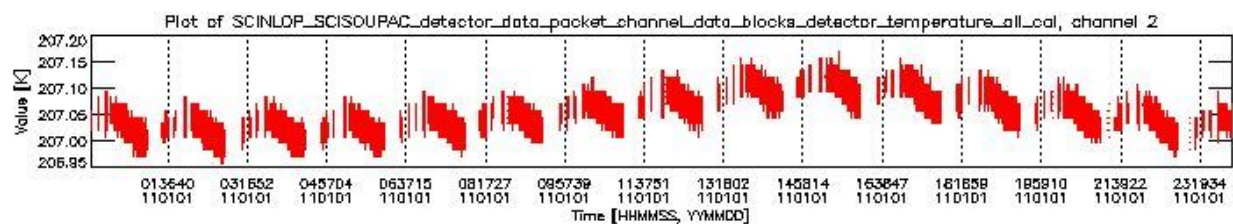
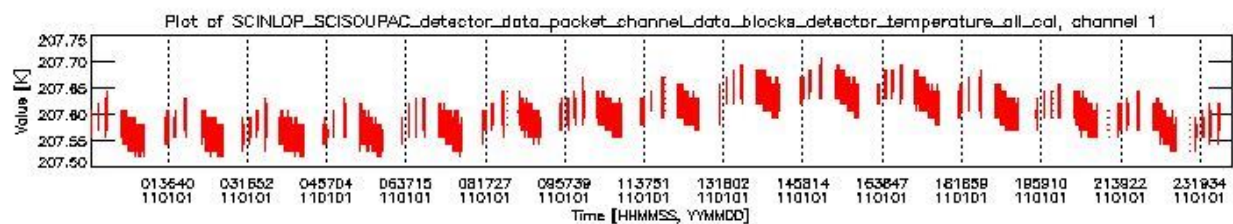
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110101_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20110101_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20110101_3.PNG

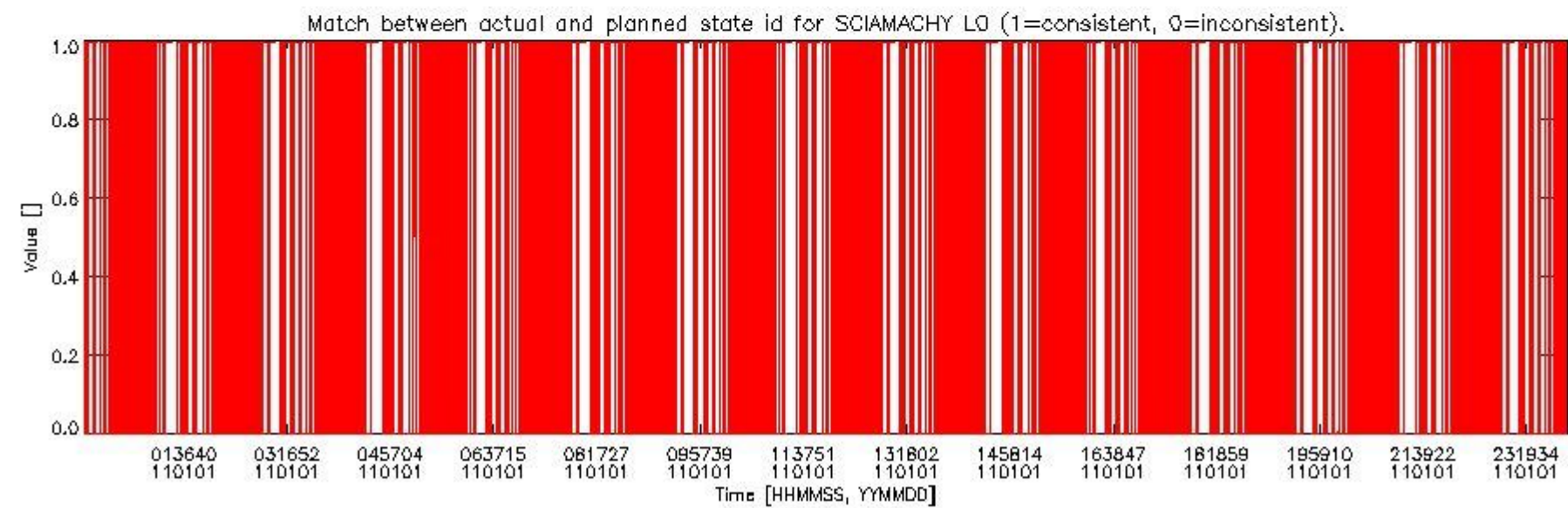
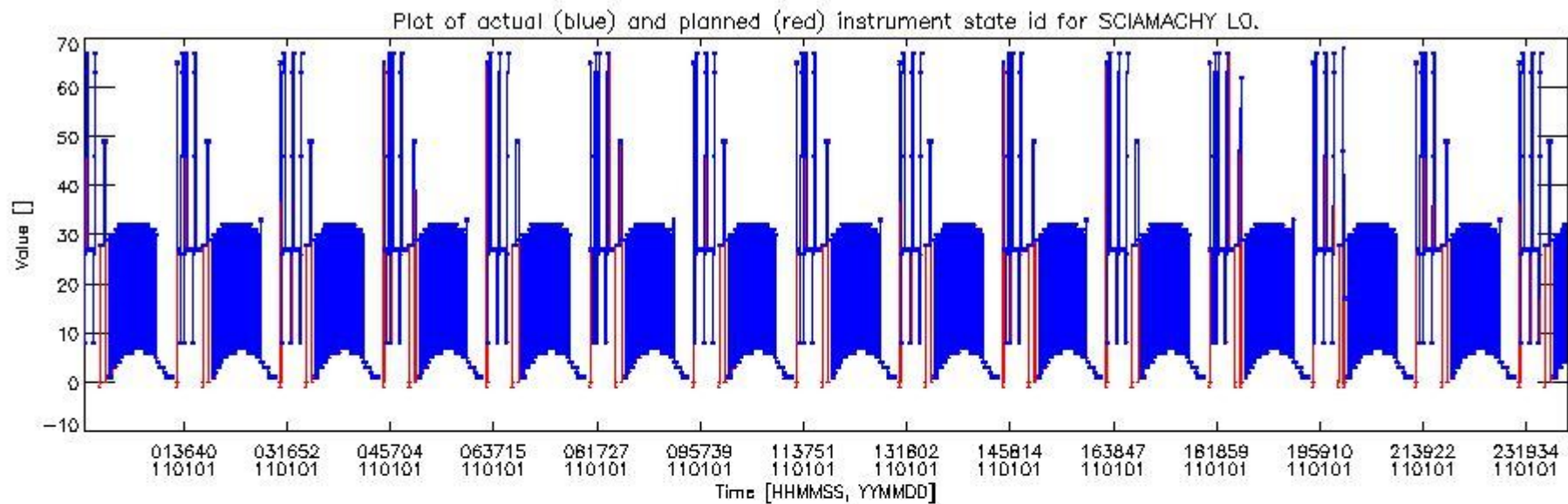


0.3 State monitoring

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: **26011**

#	Actual time	Actual value	Planned time	Planned value
0	01JAN2011 00:00:13.862947	26	01JAN2011 00:00:13.862947	8
1	01JAN2011 00:00:14.487947	26	01JAN2011 00:00:14.487947	8
2	01JAN2011 00:00:14.987947	26	01JAN2011 00:00:14.987947	8
3	01JAN2011 00:00:15.487947	26	01JAN2011 00:00:15.487947	8
4	01JAN2011 00:00:15.987947	26	01JAN2011 00:00:15.987947	8
5	01JAN2011 00:00:16.487947	26	01JAN2011 00:00:16.487947	8
6	01JAN2011 00:00:16.987947	26	01JAN2011 00:00:16.987947	8
7	01JAN2011 00:00:17.487947	26	01JAN2011 00:00:17.487947	8
8	01JAN2011 00:00:17.987947	26	01JAN2011 00:00:17.987947	8
9	01JAN2011 00:00:18.487947	26	01JAN2011 00:00:18.487947	8
10	01JAN2011 00:00:18.862947	26	01JAN2011 00:00:18.862947	8
11	01JAN2011 00:00:18.987947	26	01JAN2011 00:00:18.987947	8
12	01JAN2011 00:00:19.487947	26	01JAN2011 00:00:19.487947	8
13	01JAN2011 00:00:47.421545	46	01JAN2011 00:00:47.421545	26
14	01JAN2011 00:00:48.046545	46	01JAN2011 00:00:48.046545	26
15	01JAN2011 00:00:48.546545	46	01JAN2011 00:00:48.546545	26
16	01JAN2011 00:00:49.046545	46	01JAN2011 00:00:49.046545	26
17	01JAN2011 00:00:49.546545	46	01JAN2011 00:00:49.546545	26
18	01JAN2011 00:00:50.046545	46	01JAN2011 00:00:50.046545	26
19	01JAN2011 00:00:50.546545	46	01JAN2011 00:00:50.546545	26

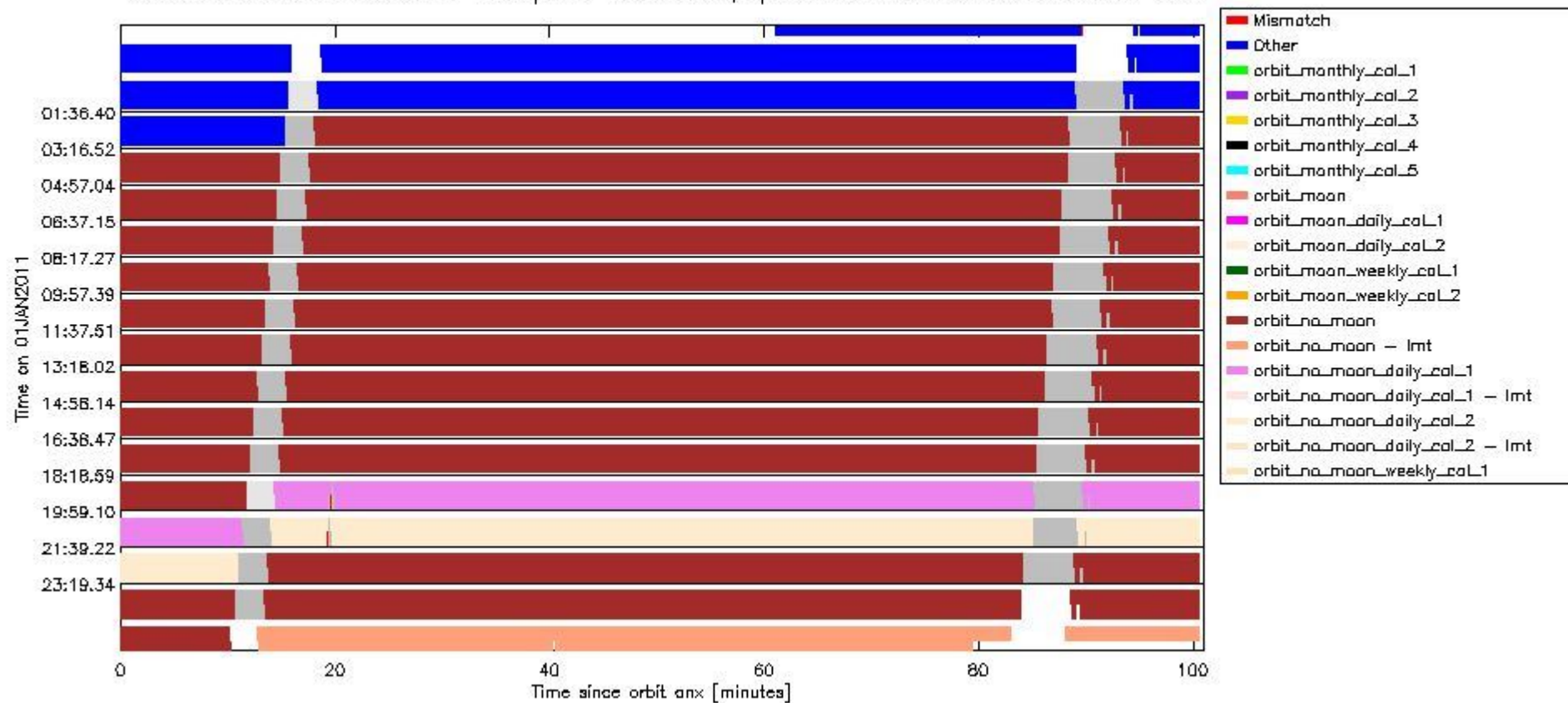


sciamachy_daily_report_level0_KSPT_L0_4504_N_20110101_5.PNG

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 01JAN2011.
 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_4504_N_20110101_6.PNG

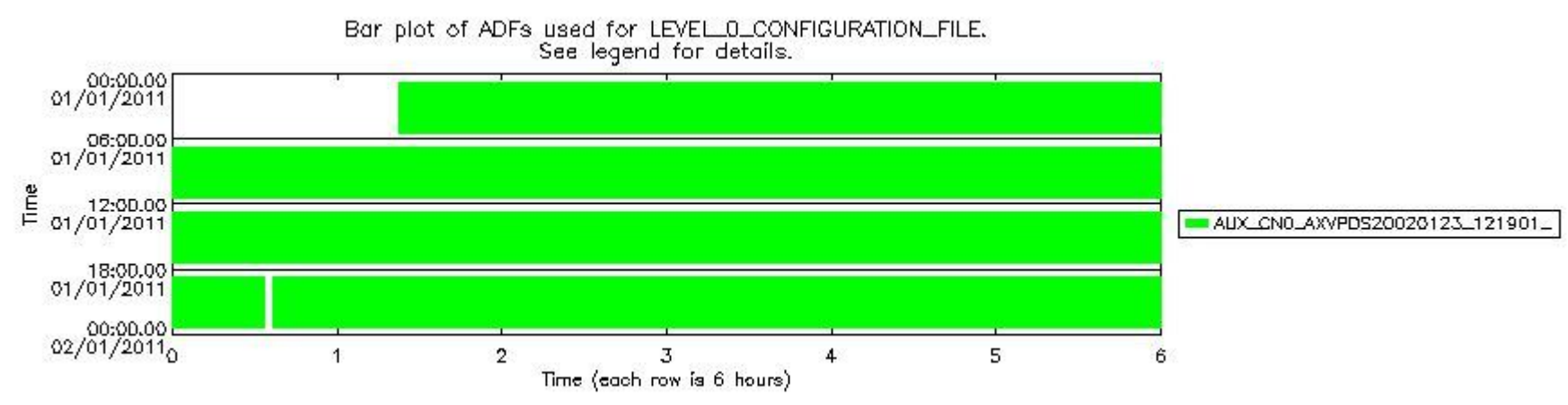
0.4 ADF monitoring

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

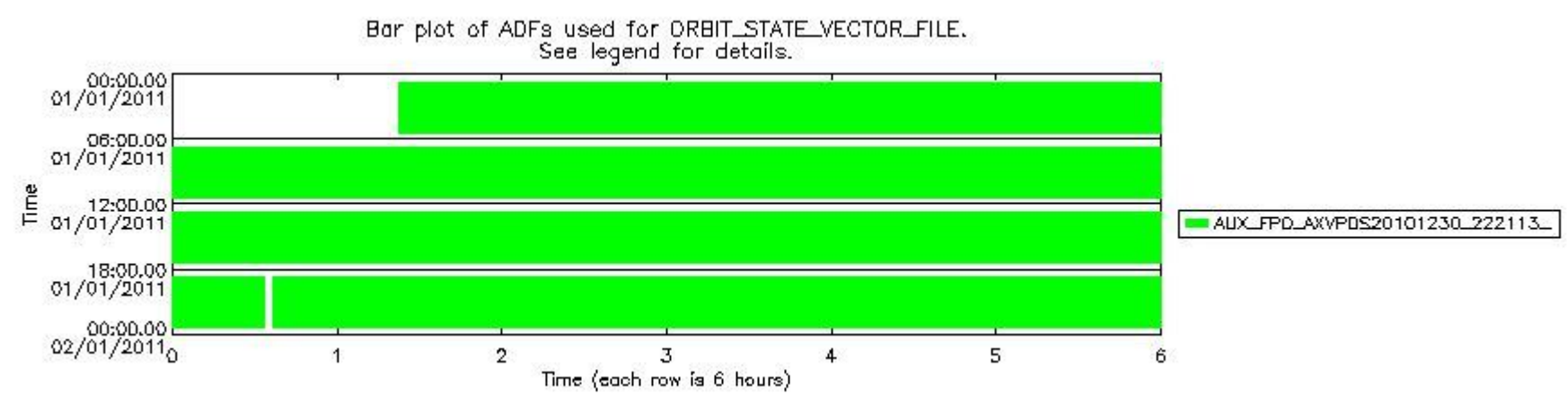
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

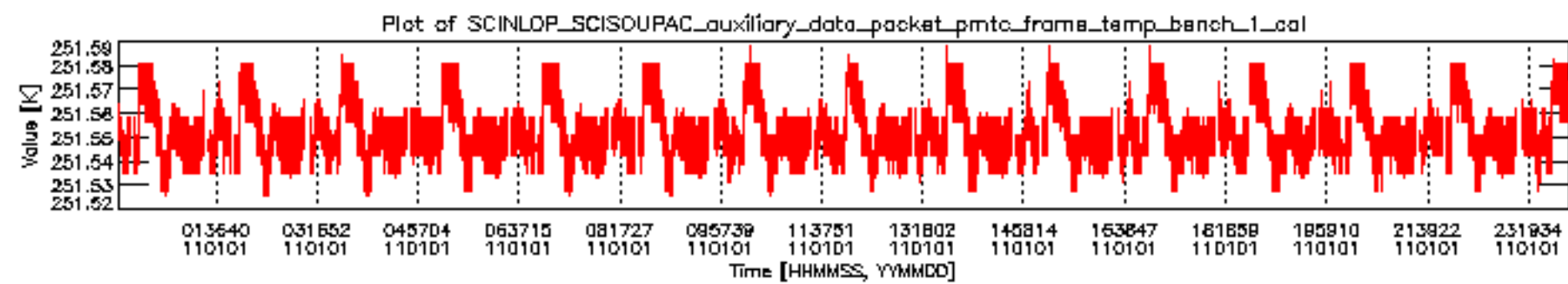
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20101230_222113_20101230_193220_20110109_200559

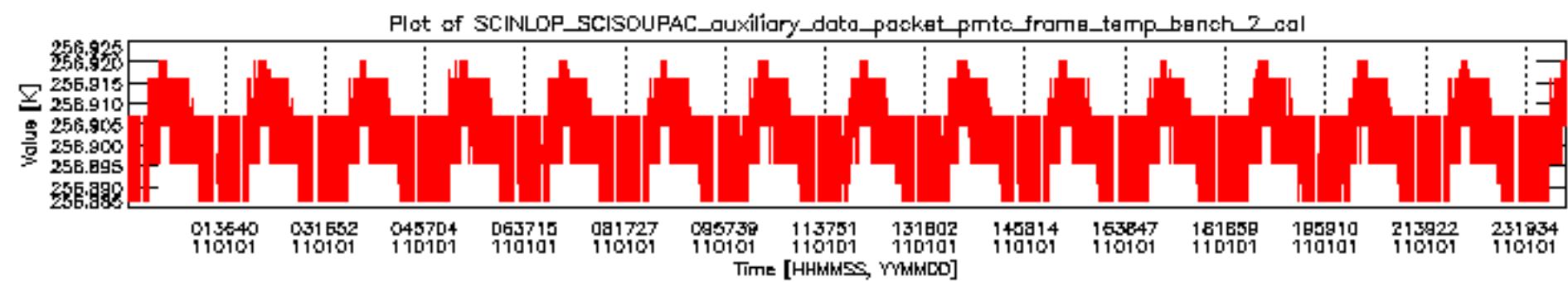


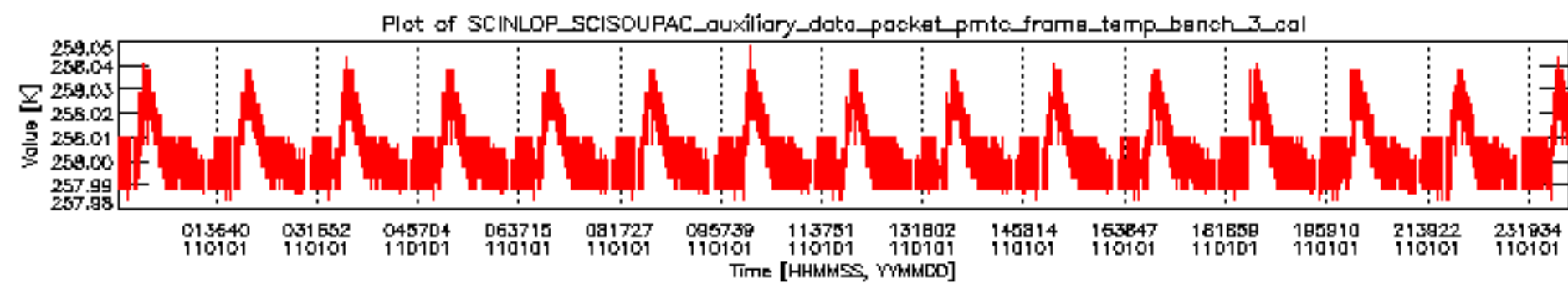
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110101_7.PNG

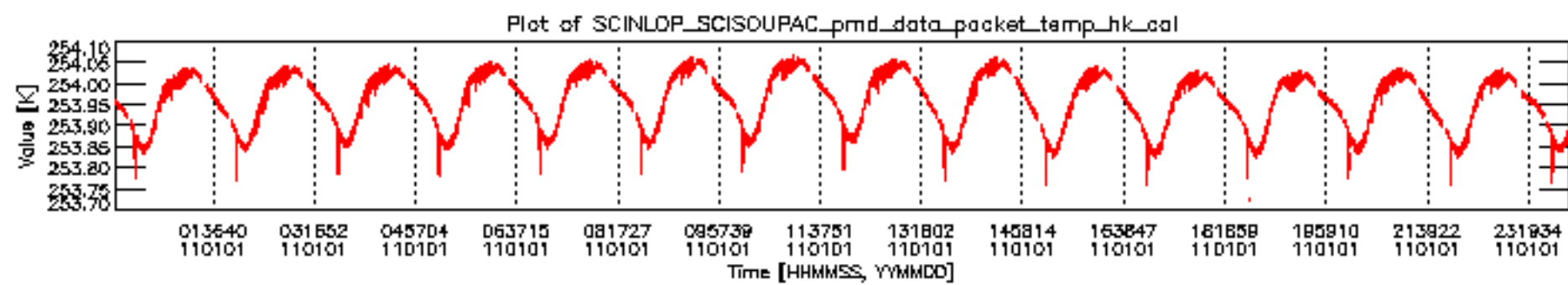


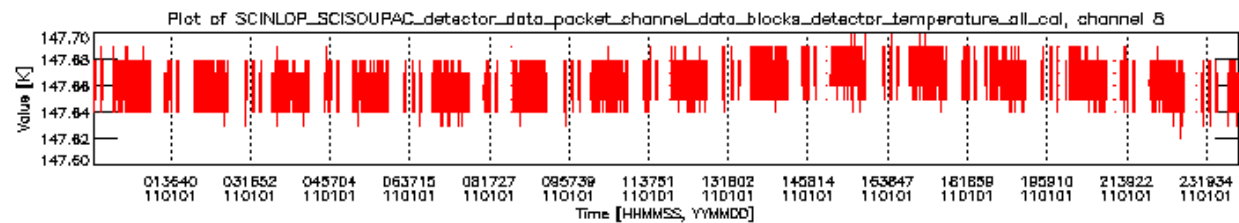
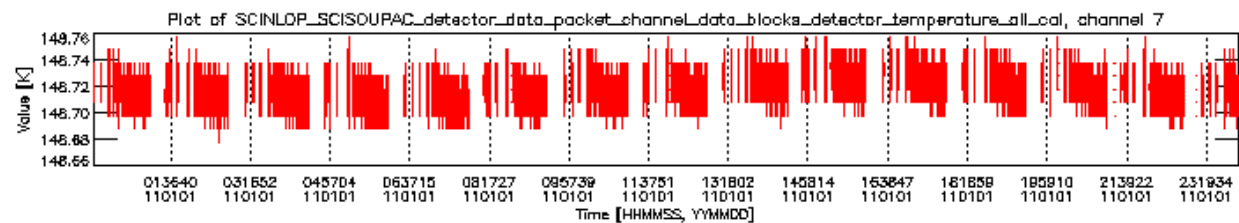
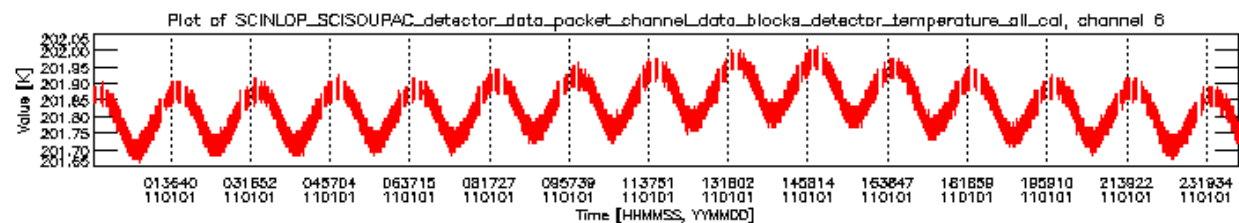
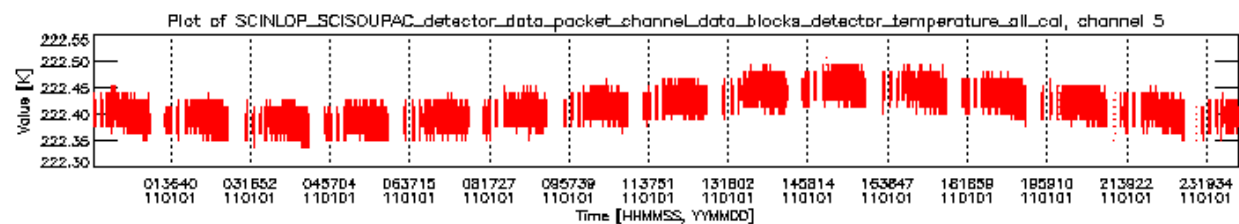
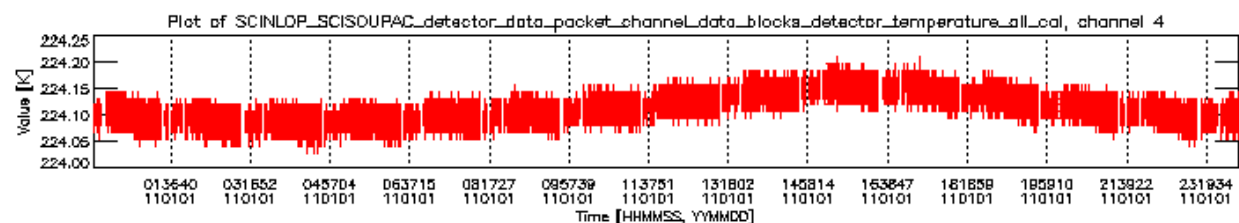
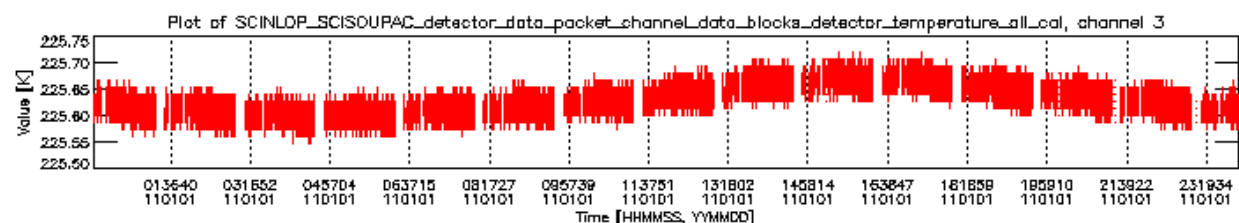
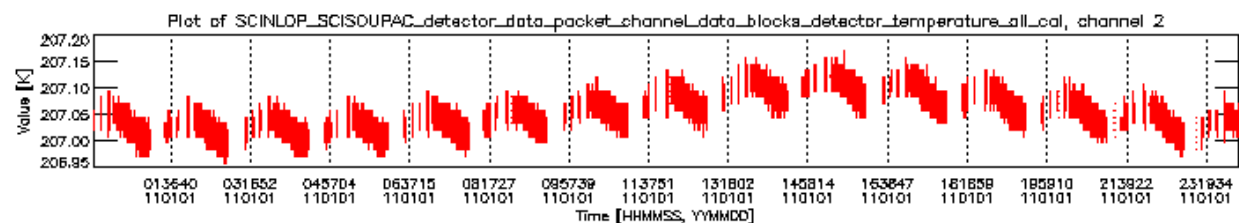
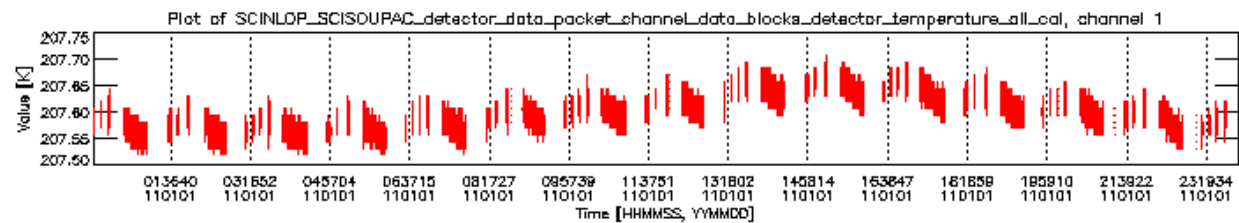
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110101_8.PNG











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