

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	22DEC2011 15:02:40
Data source version	KSPT_L0/4504-N
Processing scope for products	15DEC2011 00:00:00 to 16DEC2011 00:00:00
Start time of first product within scope	15DEC2011 00:27:50
Stop time of last product within scope	16DEC2011 01:31:51
Total number of Level 0 products	16
Number of Level 0 products with errors	1

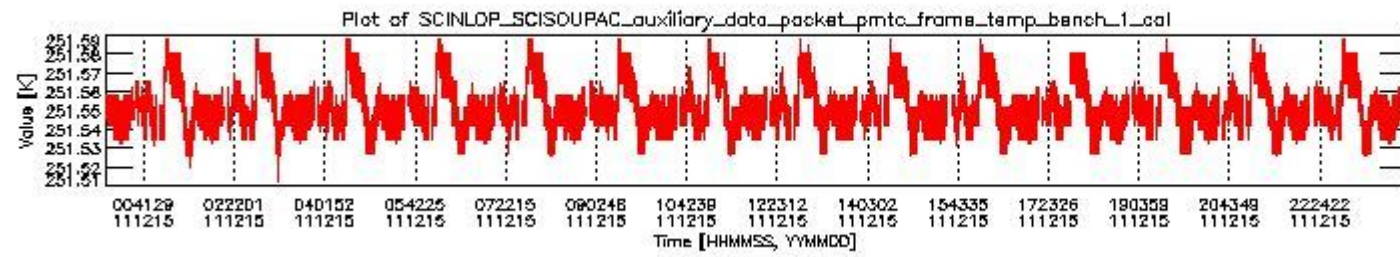
0.1.2 Summary per product

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

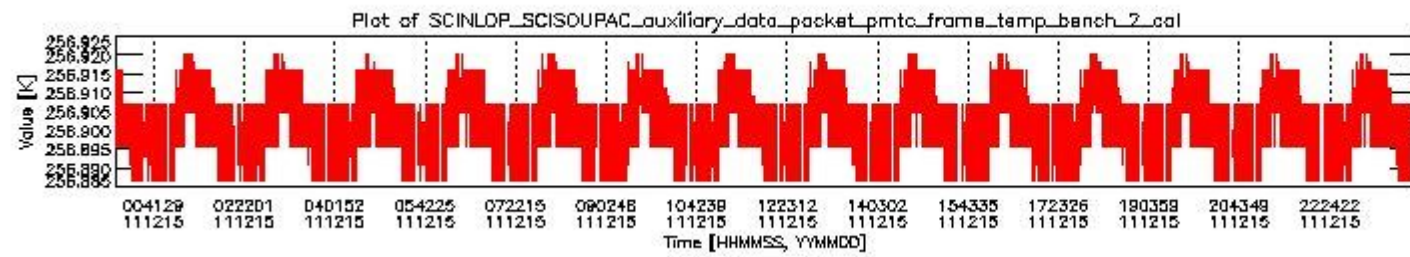
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20111215_002750_000059773109_00332_51208_7894.N1	15DEC2011 00:27:50	15DEC2011 02:07:27	0	0	0	0	0
1	SCI_NL__OPNPDE20111215_020618_000044833109_00333_51209_7895.N1	15DEC2011 02:06:18	15DEC2011 03:21:01	0	0	0	0	0
2	SCI_NL__OPNPDE20111215_032101_000060703109_00334_51210_7896.N1	15DEC2011 03:21:01	15DEC2011 05:02:11	0	0	0	0	0
3	SCI_NL__OPNPDE20111215_050211_000060833109_00335_51211_7897.N1	15DEC2011 05:02:11	15DEC2011 06:43:34	0	0	0	0	0
4	SCI_NL__OPNPDK20111215_064225_000040793109_00336_51212_6654.N1	15DEC2011 06:42:25	15DEC2011 07:50:24	0	0	0	0	0
5	SCI_NL__OPNPDK20111215_074928_000060833109_00337_51213_6655.N1	15DEC2011 07:49:28	15DEC2011 09:30:51	0	0	0	0	0
6	SCI_NL__OPNPDK20111215_092942_000060703109_00338_51214_6656.N1	15DEC2011 09:29:42	15DEC2011 11:10:52	0	0	0	0	0
7	SCI_NL__OPNPDK20111215_110900_000060703109_00339_51215_6657.N1	15DEC2011 11:09:00	15DEC2011 12:50:10	1	1	1	0	0
8	SCI_NL__OPNPDK20111215_124914_000057643109_00340_51216_6658.N1	15DEC2011 12:49:14	15DEC2011 14:25:18	0	0	0	0	0
9	SCI_NL__OPNPDK20111215_142518_000059573109_00341_51217_6659.N1	15DEC2011 14:25:18	15DEC2011 16:04:36	0	0	0	0	0
10	SCI_NL__OPNPDK20111215_160244_000059583109_00342_51218_6660.N1	15DEC2011 16:02:44	15DEC2011 17:42:02	0	0	0	0	0
11	SCI_NL__OPNPDK20111215_174202_000057293109_00343_51219_6661.N1	15DEC2011 17:42:02	15DEC2011 19:17:31	0	0	0	0	0
12	SCI_NL__OPNPDK20111215_191731_000062993109_00344_51220_6662.N1	15DEC2011 19:17:31	15DEC2011 21:02:30	0	0	0	0	0
13	SCI_NL__OPNPDE20111215_210230_000041333109_00345_51221_7898.N1	15DEC2011 21:02:30	15DEC2011 22:11:23	0	0	0	0	0
14	SCI_NL__OPNPDE20111215_221015_000060953109_00345_51221_7899.N1	15DEC2011 22:10:15	15DEC2011 23:51:50	0	0	0	0	0
15	SCI_NL__OPNPDE20111215_235150_000060013109_00346_51222_7900.N1	15DEC2011 23:51:50	16DEC2011 01:31:51	0	0	0	0	0

0.2 Product Quality Indicators

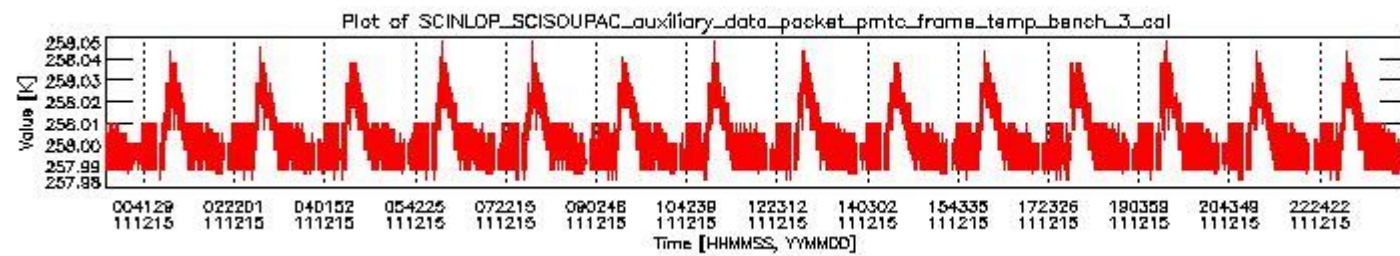
This section shows information about product quality, currently temperatures.



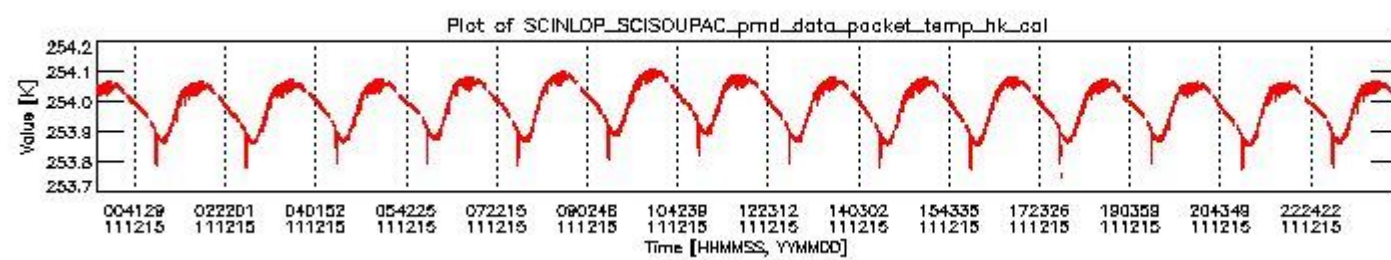
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111215_0.PNG



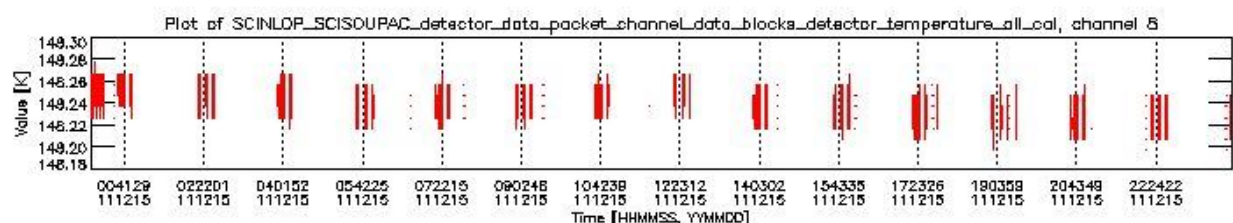
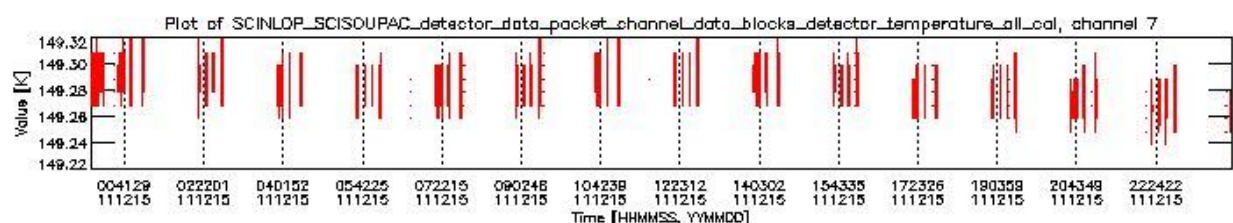
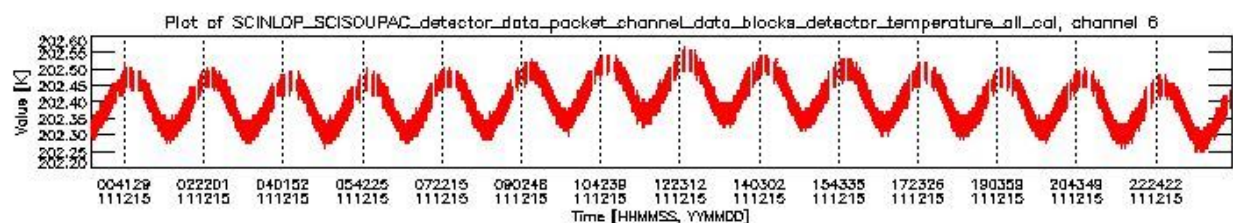
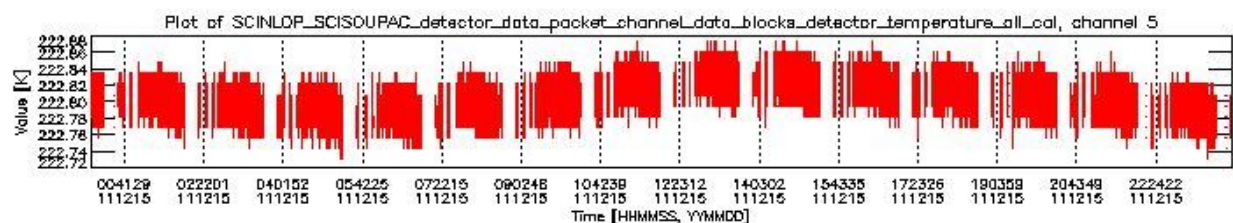
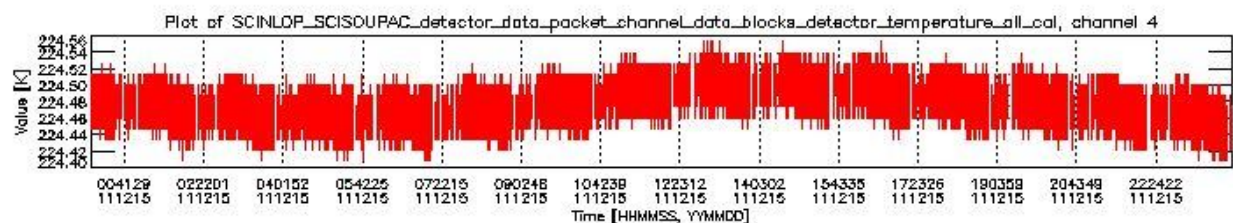
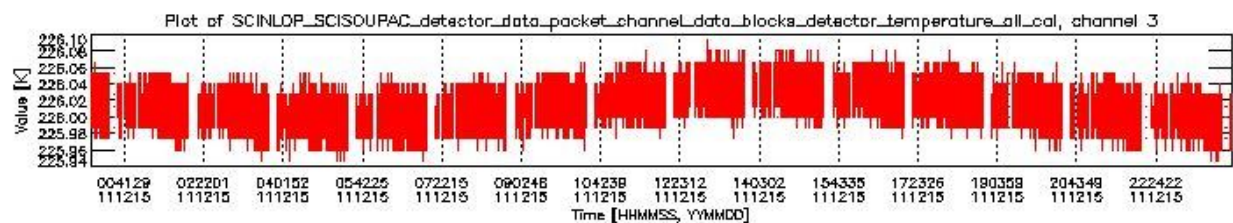
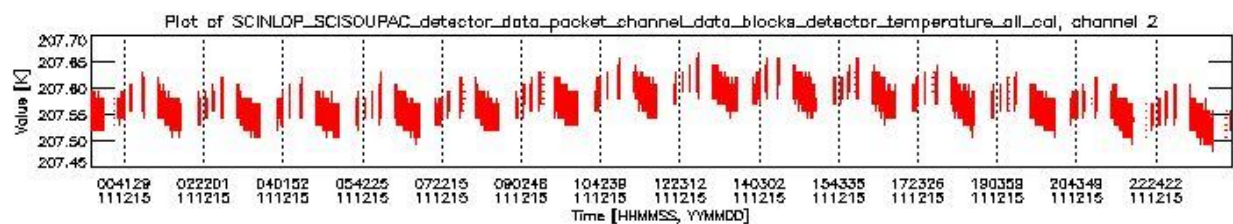
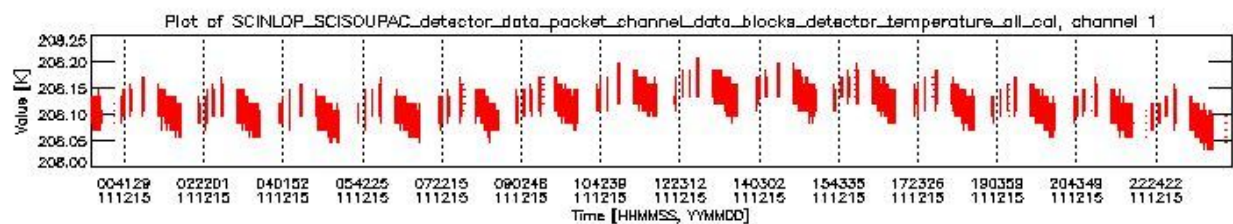
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111215_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20111215_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4504_N_20111215_3.PNG

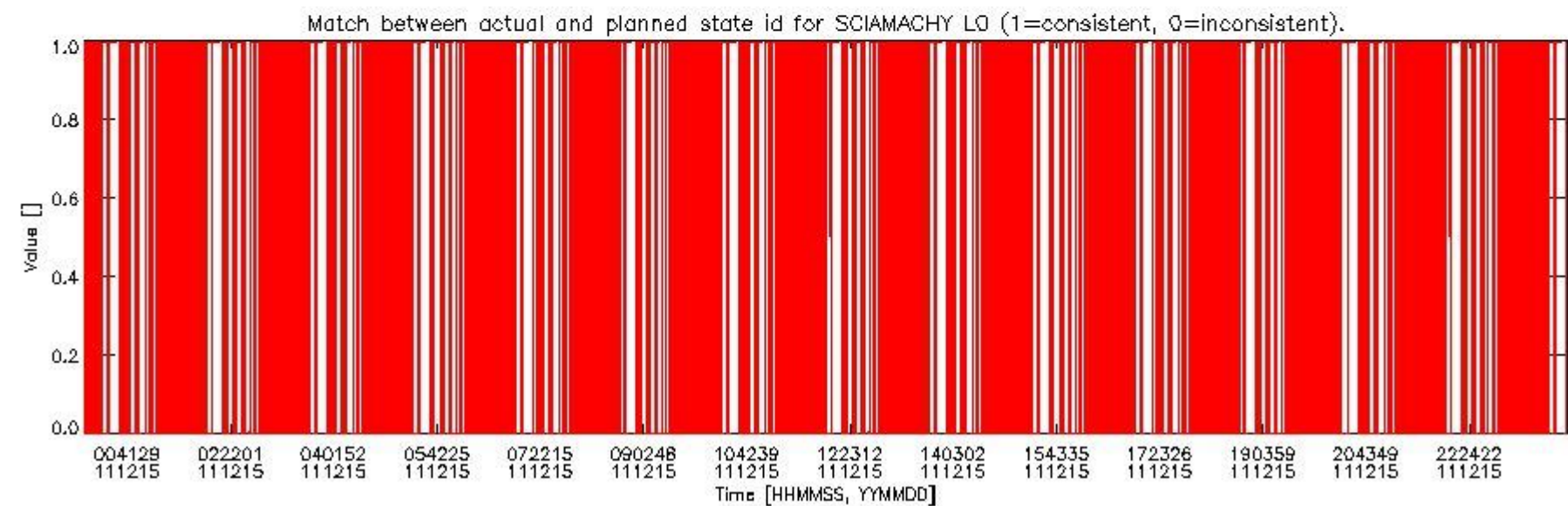
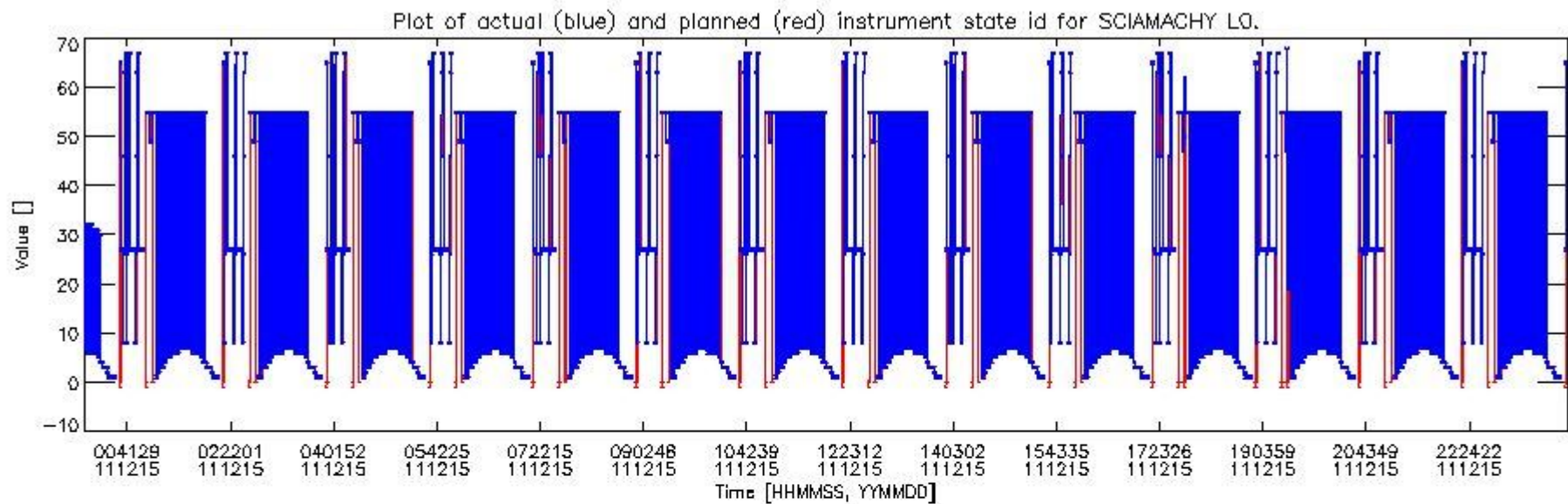


0.3 State monitoring

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: **45914**

#	Actual time	Actual value	Planned time	Planned value
0	15DEC2011 00:00:03.395569	32	15DEC2011 00:00:03.395569	7
1	15DEC2011 00:00:04.020569	32	15DEC2011 00:00:04.020569	7
2	15DEC2011 00:00:04.395569	32	15DEC2011 00:00:04.395569	7
3	15DEC2011 00:00:04.770569	32	15DEC2011 00:00:04.770569	7
4	15DEC2011 00:00:05.333069	32	15DEC2011 00:00:05.333069	7
5	15DEC2011 00:00:05.708069	32	15DEC2011 00:00:05.708069	7
6	15DEC2011 00:00:06.083069	32	15DEC2011 00:00:06.083069	7
7	15DEC2011 00:00:06.458069	32	15DEC2011 00:00:06.458069	7
8	15DEC2011 00:00:07.020569	32	15DEC2011 00:00:07.020569	7
9	15DEC2011 00:00:07.395569	32	15DEC2011 00:00:07.395569	7
10	15DEC2011 00:00:07.770569	32	15DEC2011 00:00:07.770569	7
11	15DEC2011 00:00:08.145569	32	15DEC2011 00:00:08.145569	7
12	15DEC2011 00:00:08.395569	32	15DEC2011 00:00:08.395569	7
13	15DEC2011 00:00:08.708069	32	15DEC2011 00:00:08.708069	7
14	15DEC2011 00:00:09.083069	32	15DEC2011 00:00:09.083069	7
15	15DEC2011 00:00:09.458069	32	15DEC2011 00:00:09.458069	7
16	15DEC2011 00:00:09.833069	32	15DEC2011 00:00:09.833069	7
17	15DEC2011 00:00:10.395569	32	15DEC2011 00:00:10.395569	7
18	15DEC2011 00:00:10.770569	32	15DEC2011 00:00:10.770569	7
19	15DEC2011 00:00:11.145569	32	15DEC2011 00:00:11.145569	7
...

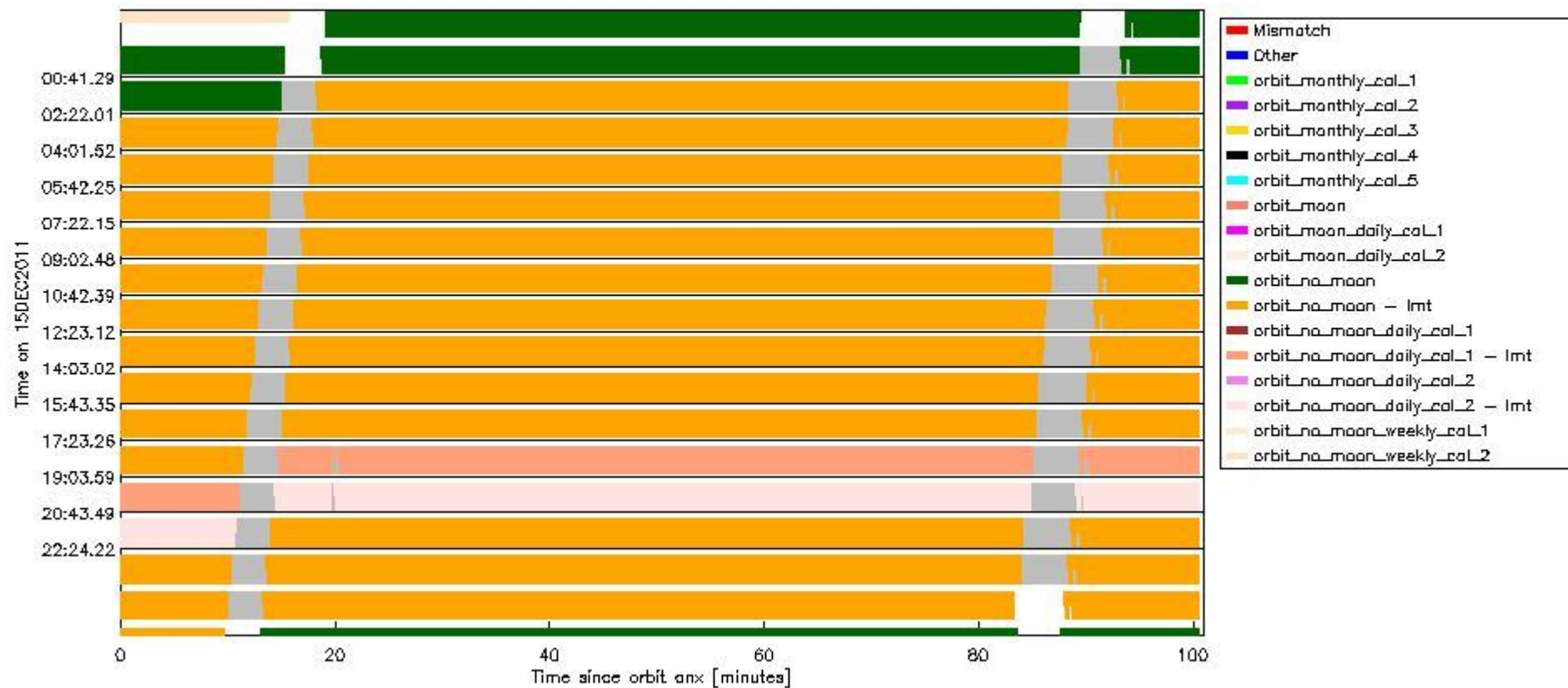


sciamachy_daily_report_level0_KSPT_L0_4504_N_20111215_5.PNG

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 15DEC2011.
 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_20111215_6.PNG

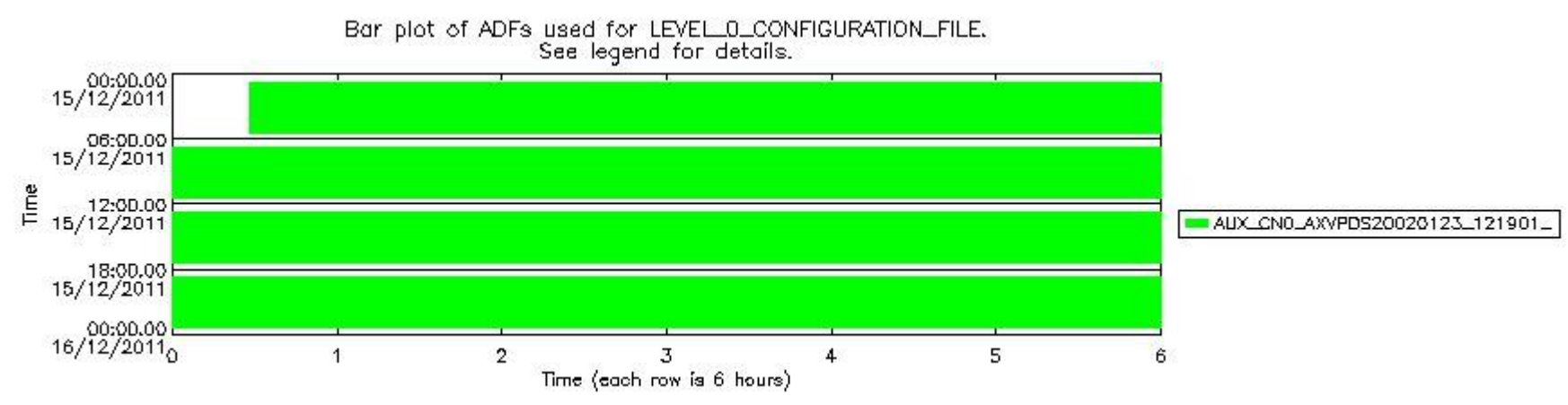
0.4 ADF monitoring

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

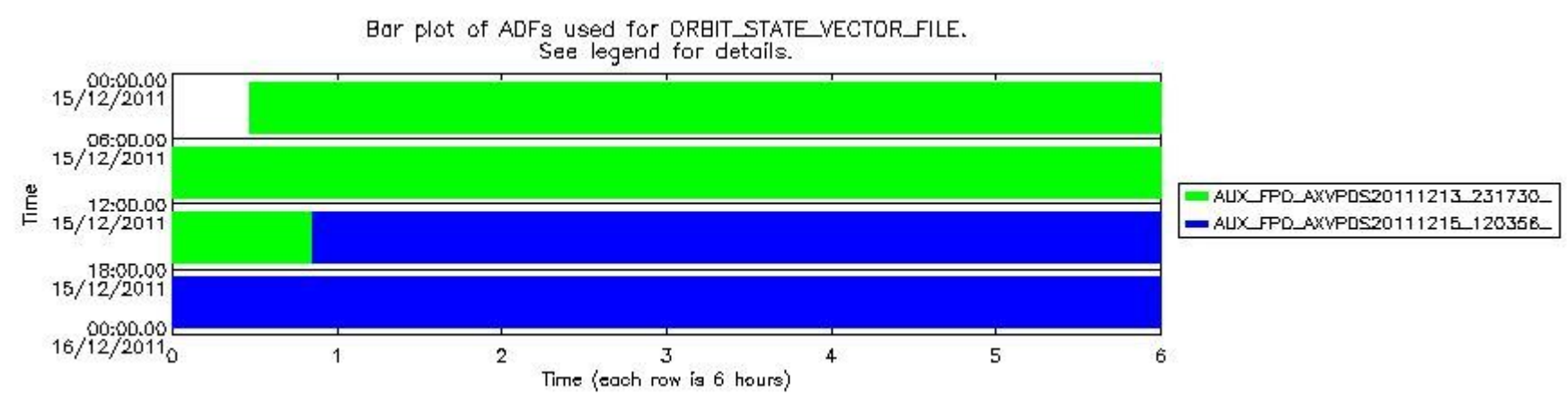
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

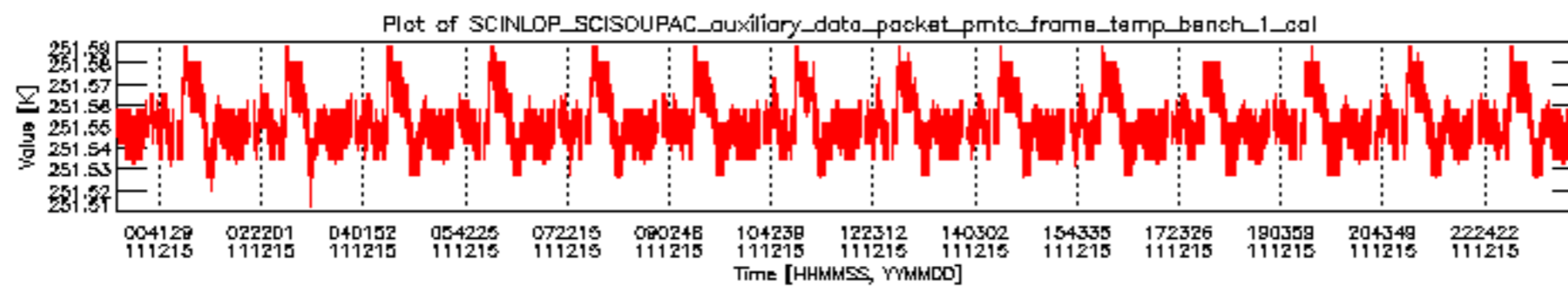
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20111213_231730_20111213_183713_20111223_205053
2	AUX_FPO_AXVPDS20111215_120356_20111214_194042_20111224_201408

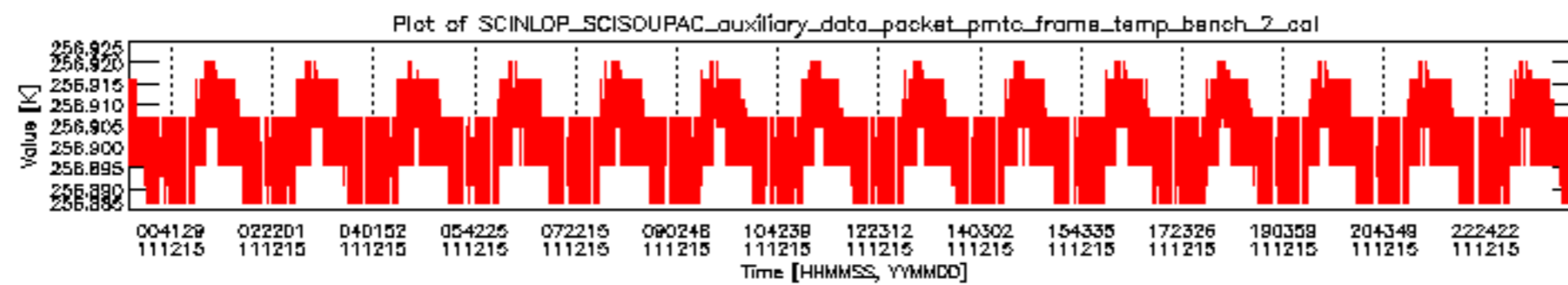


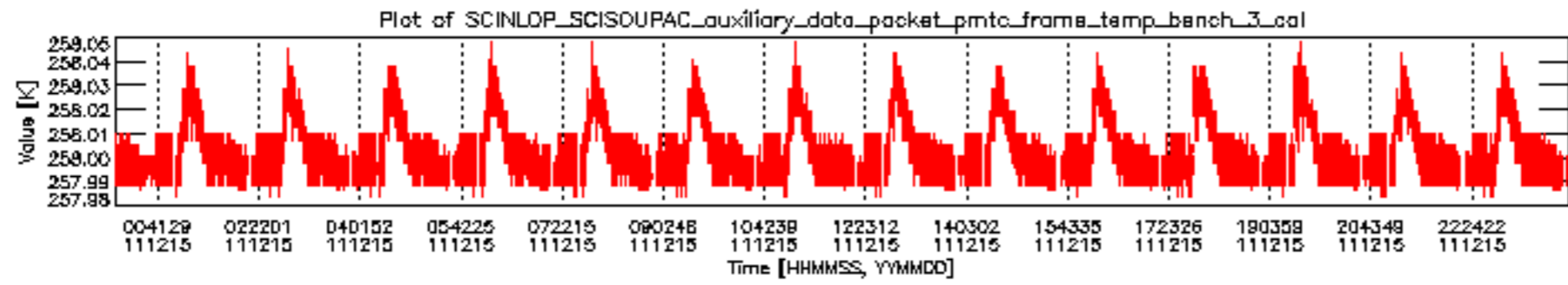
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111215_7.PNG

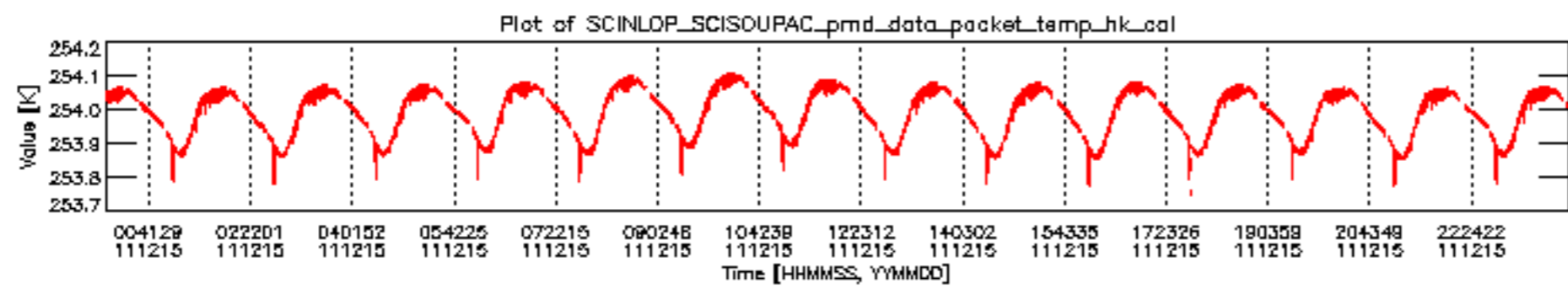


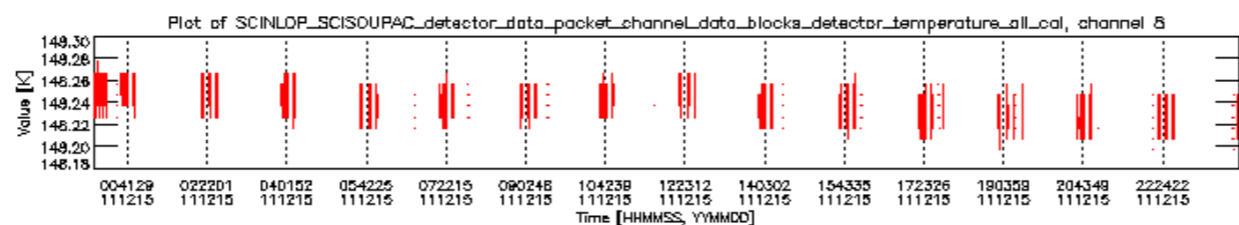
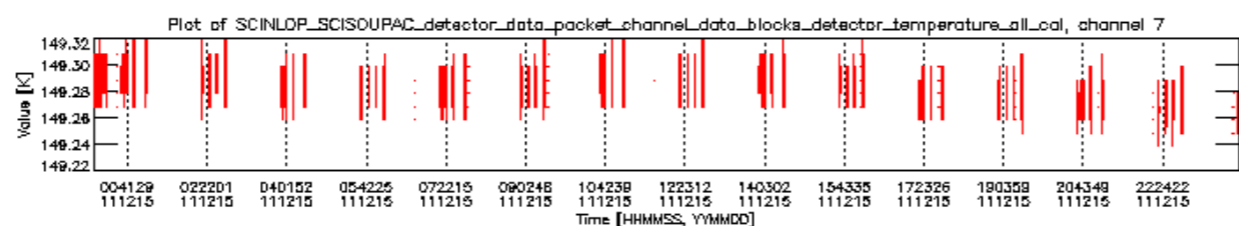
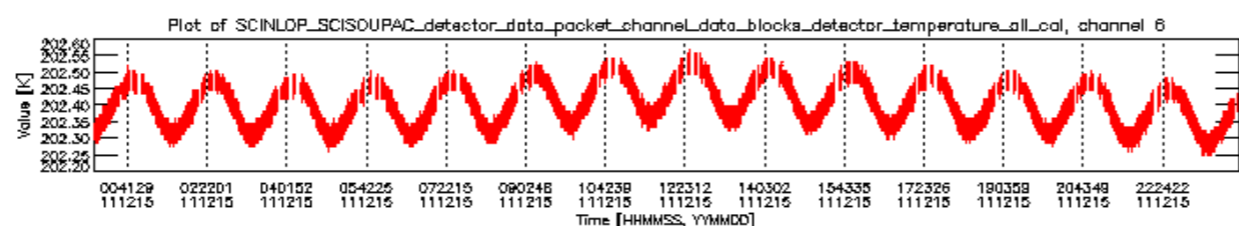
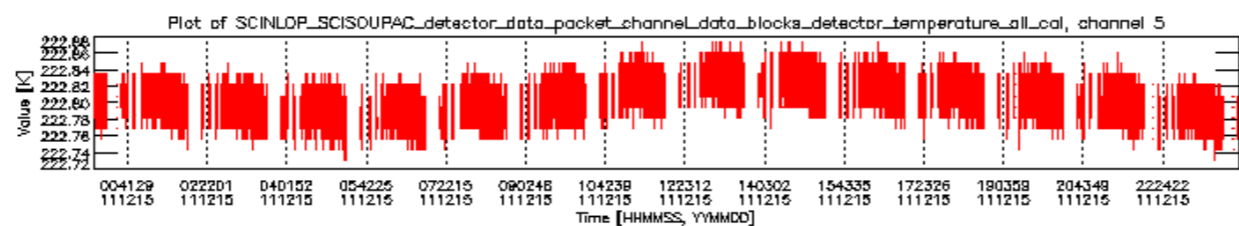
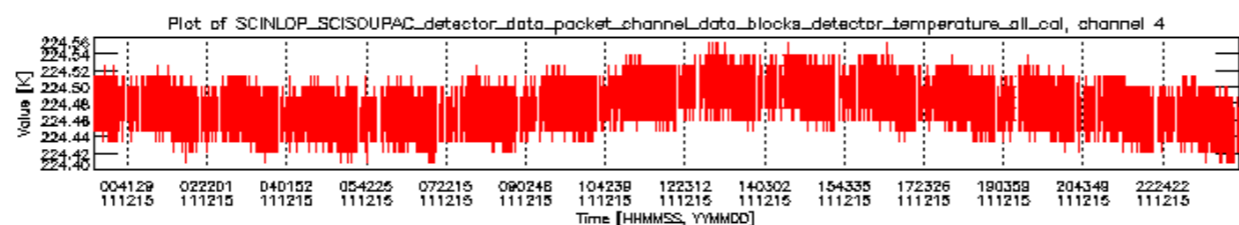
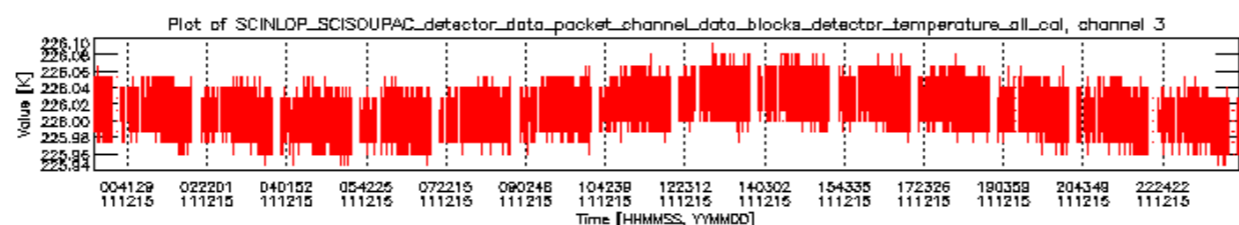
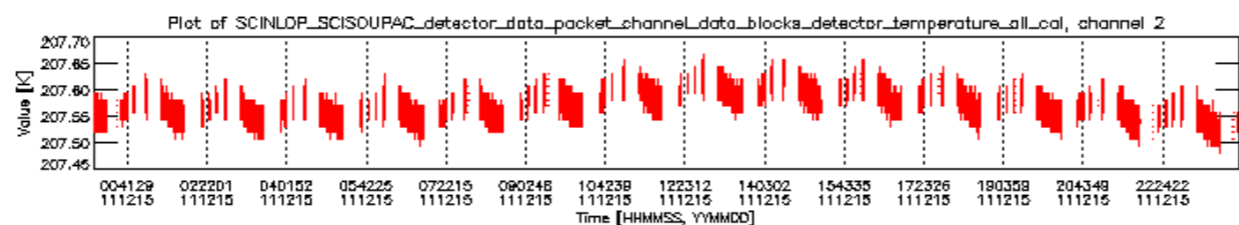
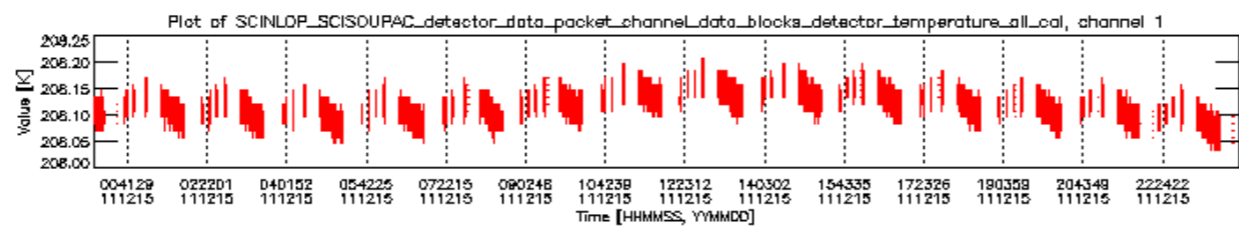
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111215_8.PNG











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