--- ---

0. SCIAMACHY Daily Report for Level 0 products

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 chacteristics of the data that are included into this report.

Item	Value
Report version	v1.4 20100407
Time of report generation	04DEC2010 03:08:15
Data source version	KSPT_L0/4504-N
Processing scope for products	27NOV2010 00:00:00 to 28NOV2010 00:00:00
Start time of first product within scope	27NOV2010 01:11:02
Stop time of last product within scope	28NOV2010 00:28:56
Total number of Level 0 products	14
Number of Level 0 products with errors	0

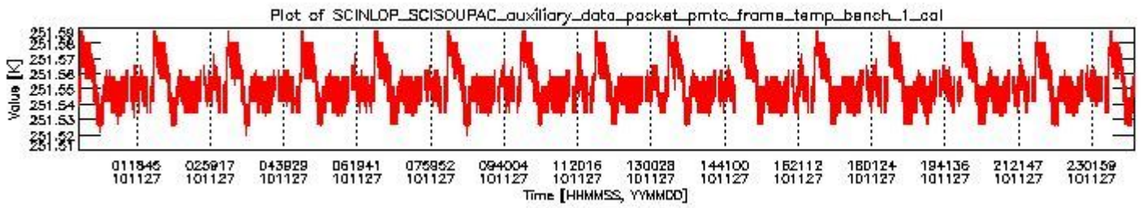
0.1.2 Summary per product

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

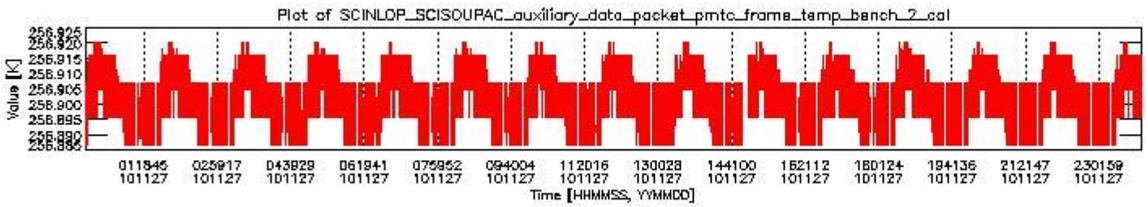
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDE20101127_011102_000099673097_00002_45706_2017.N1	27NOV2010 01:11:02	27NOV2010 03:57:09	0	0	0	0	0
1	SCI_NL__0PNPDE20101127_035709_000062063097_00004_45708_2018.N1	27NOV2010 03:57:09	27NOV2010 05:40:35	0	0	0	0	0
2	SCI_NL__0PNPDE20101127_054035_000060143097_00005_45709_2019.N1	27NOV2010 05:40:35	27NOV2010 07:20:49	0	0	0	0	0
3	SCI_NL__0PNPDK20101127_071941_000041193097_00006_45710_3072.N1	27NOV2010 07:19:41	27NOV2010 08:28:20	0	0	0	0	0
4	SCI_NL__0PNPDK20101127_082725_000060003097_00007_45711_3073.N1	27NOV2010 08:27:25	27NOV2010 10:07:25	0	0	0	0	0
5	SCI_NL__0PNPDK20101127_100631_000061373097_00008_45712_3074.N1	27NOV2010 10:06:31	27NOV2010 11:48:48	0	0	0	0	0
6	SCI_NL__0PNPDK20101127_114645_000059603097_00009_45713_3075.N1	27NOV2010 11:46:45	27NOV2010 13:26:05	0	0	0	0	0
7	SCI_NL__0PNPDK20101127_132511_000053103097_00010_45714_3076.N1	27NOV2010 13:25:11	27NOV2010 14:53:41	0	0	0	0	0
8	SCI_NL__0PNPDK20101127_150213_000059053097_00011_45715_3077.N1	27NOV2010 15:02:13	27NOV2010 16:40:38	0	0	0	0	0
9	SCI_NL__0PNPDK20101127_163850_000060693097_00012_45716_3078.N1	27NOV2010 16:38:50	27NOV2010 18:19:58	0	0	0	0	0
10	SCI_NL__0PNPDK20101127_181904_000057153097_00013_45717_3079.N1	27NOV2010 18:19:04	27NOV2010 19:54:19	0	0	0	0	0
11	SCI_NL__0PNPDE20101127_195918_000039603097_00014_45718_2020.N1	27NOV2010 19:59:18	27NOV2010 21:05:18	0	0	0	0	0
12	SCI_NL__0PNPDE20101127_210409_000062873097_00014_45718_2021.N1	27NOV2010 21:04:09	27NOV2010 22:48:57	0	0	0	0	0
13	SCI_NL__0PNPDE20101127_225408_000056893097_00015_45719_2022.N1	27NOV2010 22:54:08	28NOV2010 00:28:56	0	0	0	0	0

0.2 Product Quality Indicators

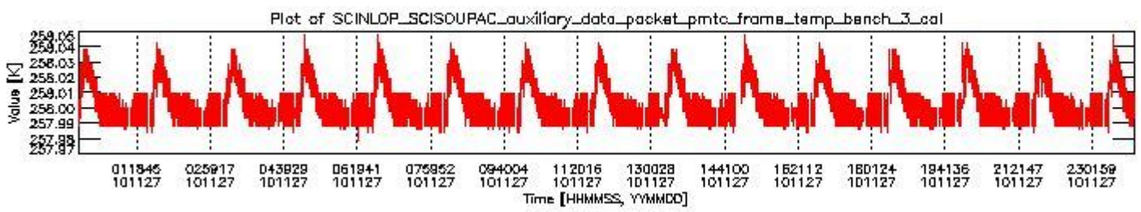
This section shows information about product quality, currently temperatures.



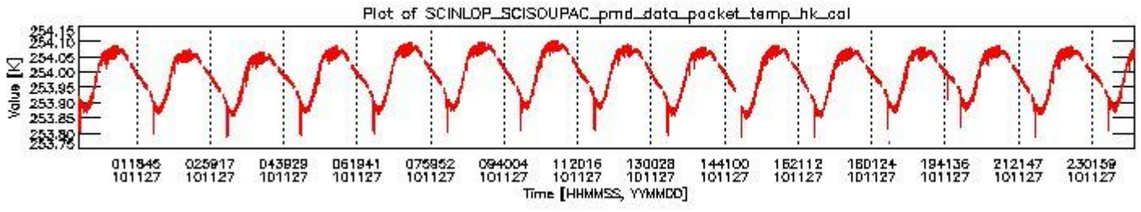
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101127_0.PNG



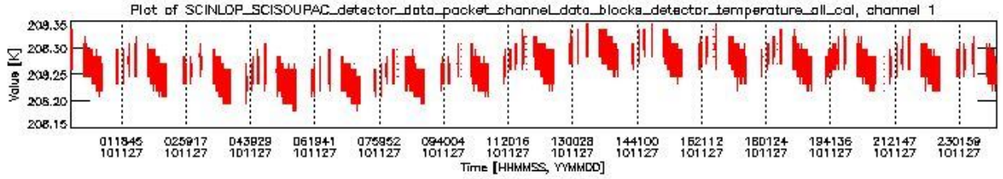
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101127_1.PNG

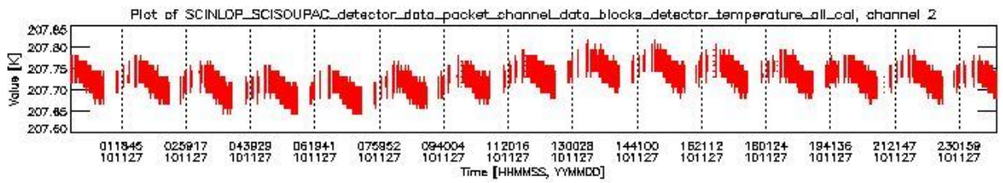


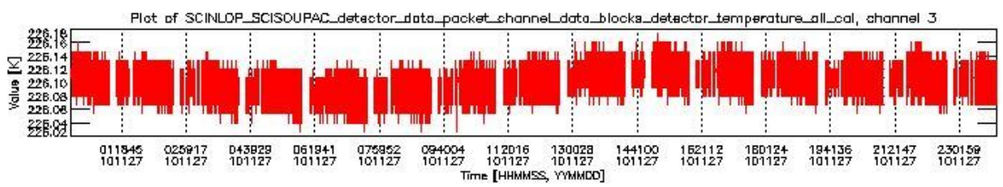
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101127_2.PNG

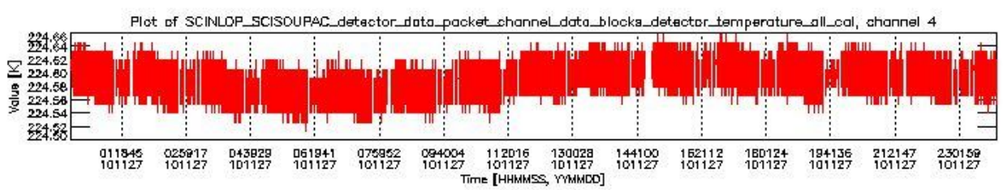


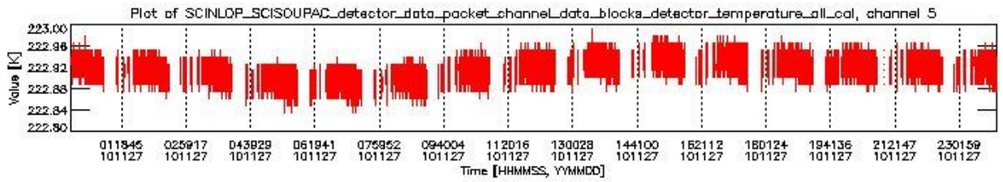
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101127_3.PNG

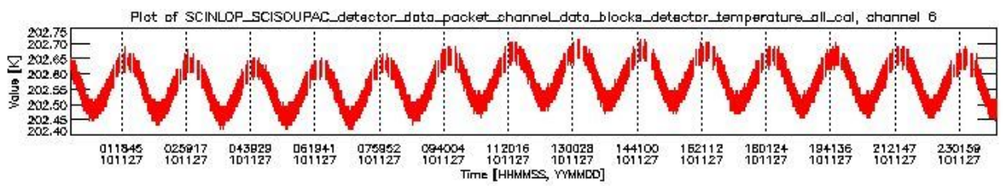

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
208.35
208.30
208.25
208.20
208.15
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
152112 101127
160124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

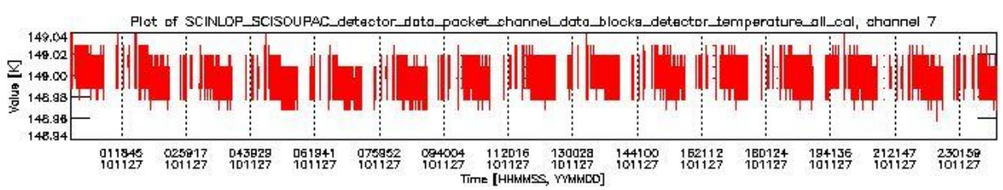

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
207.85
207.80
207.75
207.70
207.65
207.60
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
152112 101127
160124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

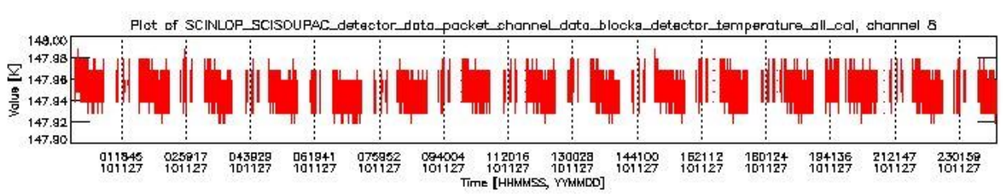

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
226.14
226.12
226.10
226.08
226.06
226.04
226.02
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
152112 101127
160124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
224.62
224.60
224.58
224.56
224.54
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
152112 101127
160124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
223.00
222.96
222.92
222.88
222.84
222.80
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
152112 101127
160124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
202.75
202.70
202.65
202.60
202.55
202.50
202.45
202.40
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
152112 101127
160124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
149.04
149.02
149.00
148.98
148.96
148.94
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
152112 101127
160124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

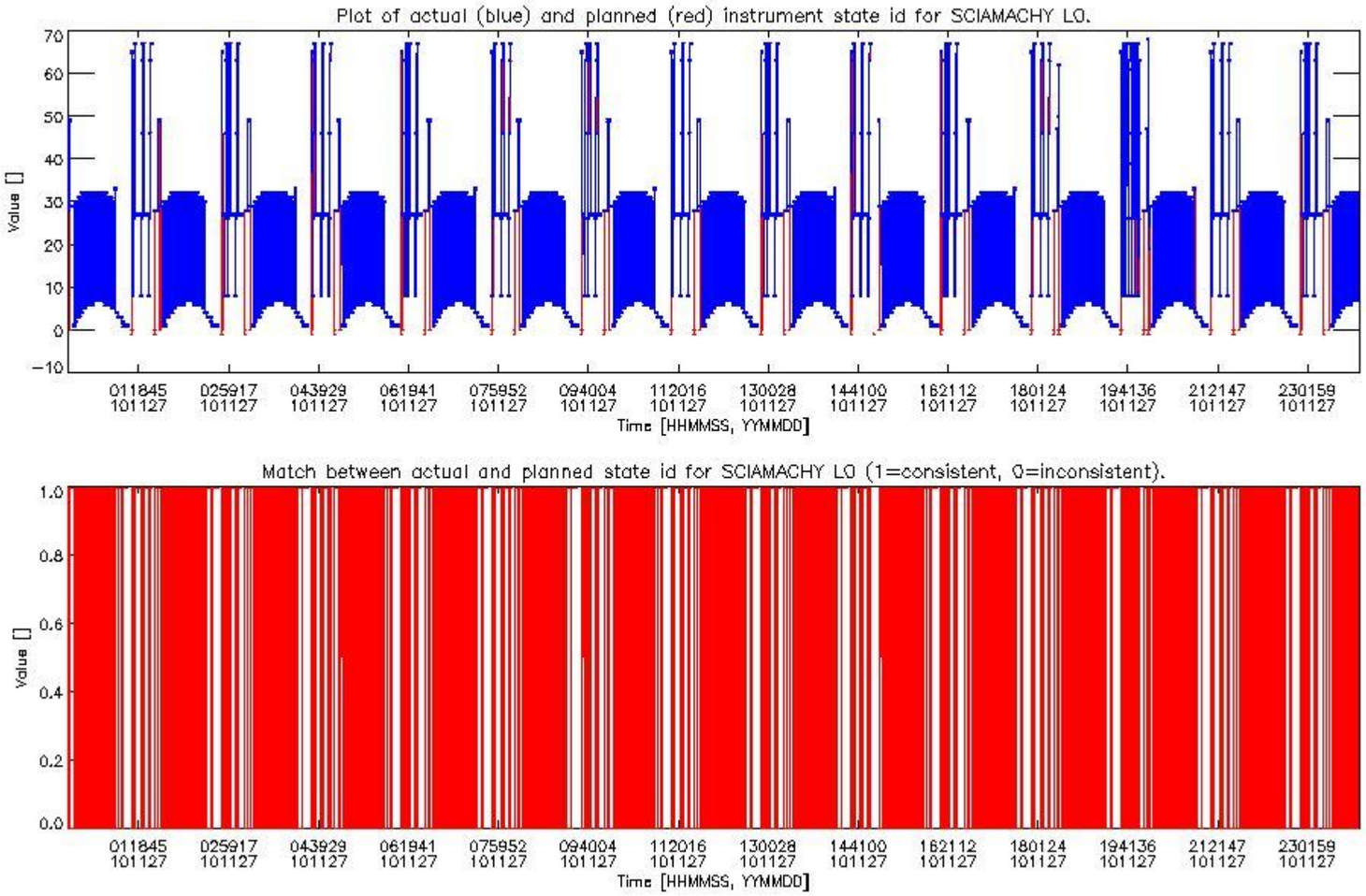

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
148.00
147.98
147.96
147.94
147.92
147.90
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
152112 101127
160124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

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: 29911

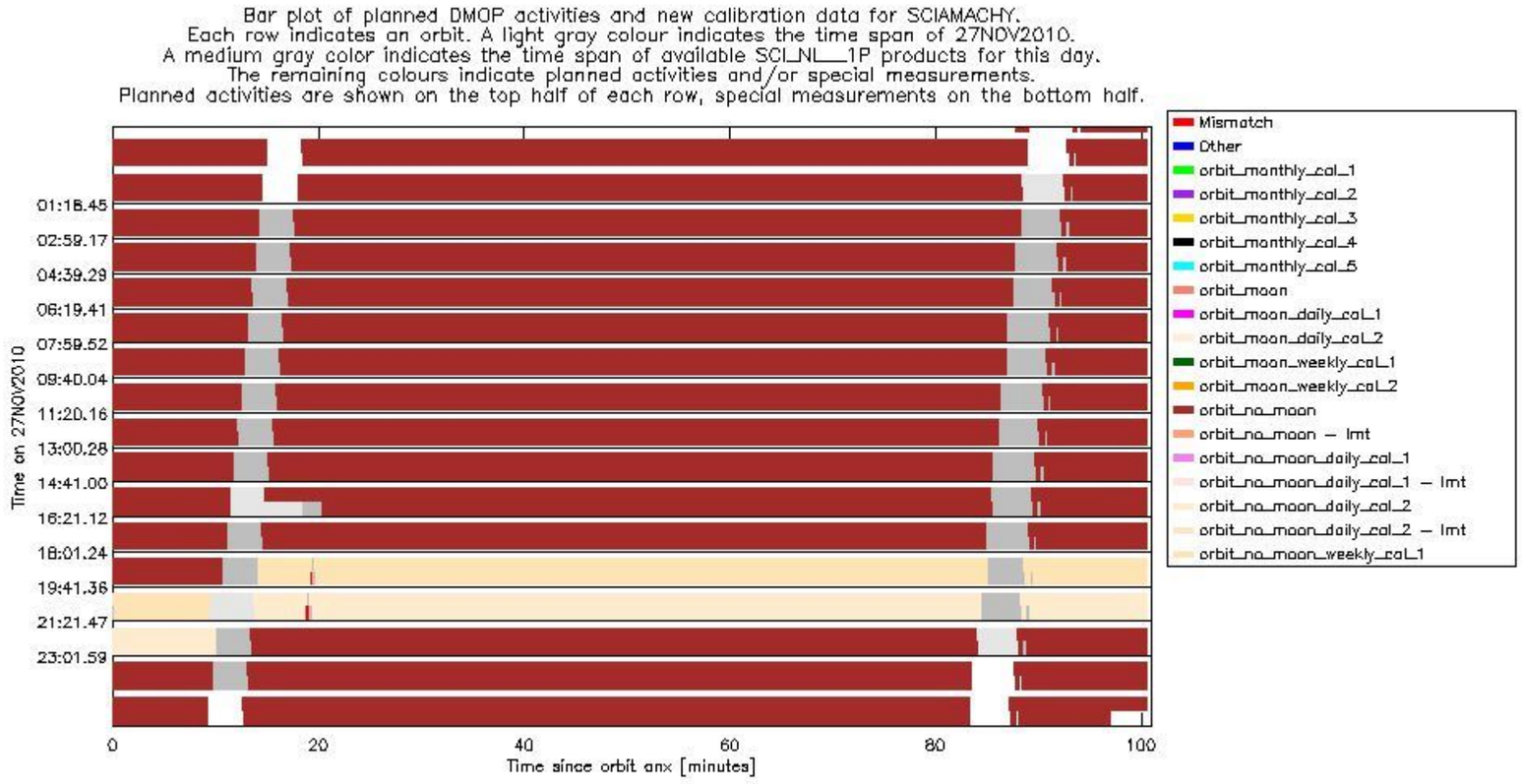
#	Actual time	Actual value	Planned time	Planned value
0	27NOV2010 00:00:05.513586	49	27NOV2010 00:00:05.513586	28
1	27NOV2010 00:00:05.701086	49	27NOV2010 00:00:05.701086	28
2	27NOV2010 00:00:05.763586	49	27NOV2010 00:00:05.763586	28
3	27NOV2010 00:00:05.826086	49	27NOV2010 00:00:05.826086	28
4	27NOV2010 00:00:05.888586	49	27NOV2010 00:00:05.888586	28
5	27NOV2010 00:00:05.951086	49	27NOV2010 00:00:05.951086	28
6	27NOV2010 00:00:06.013586	49	27NOV2010 00:00:06.013586	28
7	27NOV2010 00:00:06.076086	49	27NOV2010 00:00:06.076086	28
8	27NOV2010 00:00:06.138586	49	27NOV2010 00:00:06.138586	28
9	27NOV2010 00:00:06.201086	49	27NOV2010 00:00:06.201086	28
10	27NOV2010 00:00:06.263586	49	27NOV2010 00:00:06.263586	28
11	27NOV2010 00:00:06.326086	49	27NOV2010 00:00:06.326086	28
12	27NOV2010 00:00:06.388586	49	27NOV2010 00:00:06.388586	28
13	27NOV2010 00:00:06.451086	49	27NOV2010 00:00:06.451086	28
14	27NOV2010 00:00:06.513586	49	27NOV2010 00:00:06.513586	28
15	27NOV2010 00:00:06.576086	49	27NOV2010 00:00:06.576086	28
16	27NOV2010 00:00:06.638586	49	27NOV2010 00:00:06.638586	28
17	27NOV2010 00:00:06.701086	49	27NOV2010 00:00:06.701086	28
18	27NOV2010 00:00:06.763586	49	27NOV2010 00:00:06.763586	28
19	27NOV2010 00:00:06.826086	49	27NOV2010 00:00:06.826086	28
	...	...	...	...



sciamachy_daily_report_level0_KSPT_L0_4504_N_20101127_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.



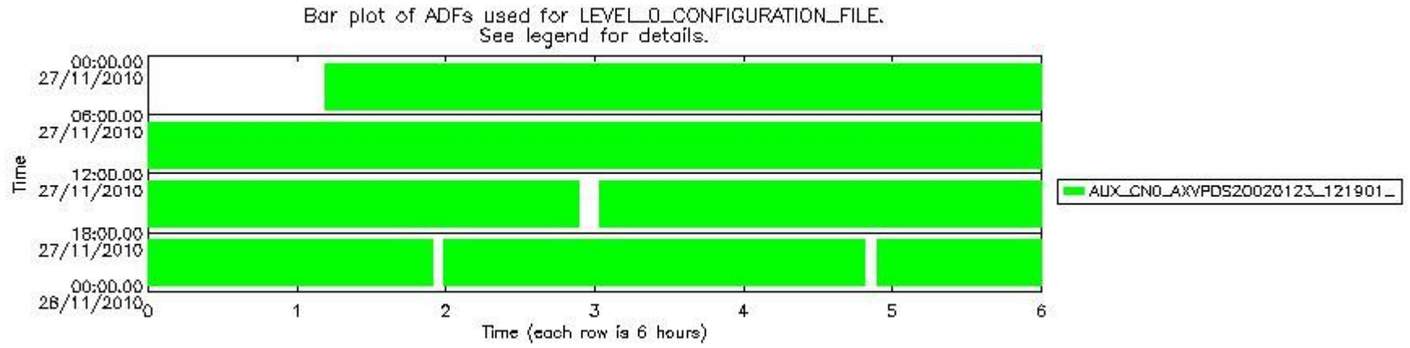
0.4 ADF monitoring

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

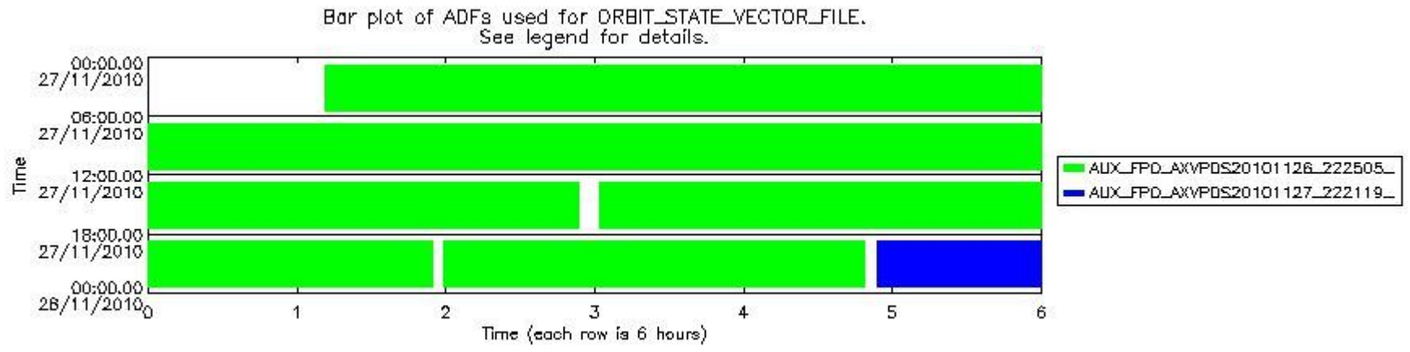
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

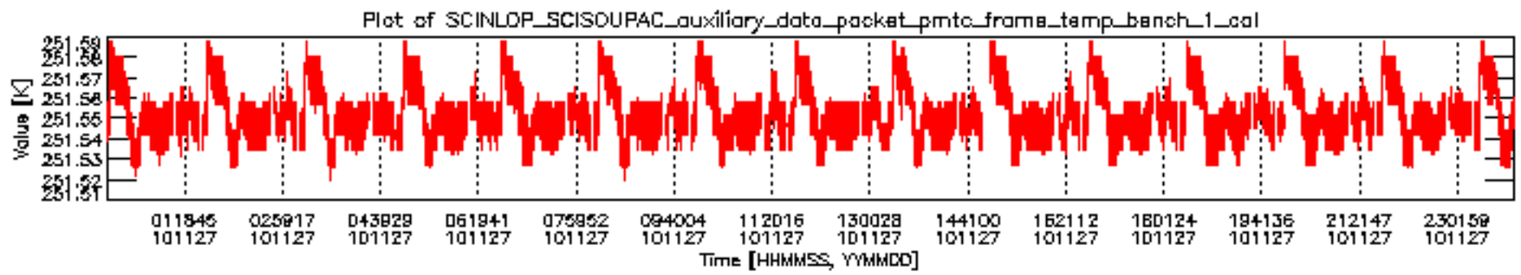
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	**AUX_FPO_AXVPDS20101126_222505_20101126_183801_20101206_205156**
2	**AUX_FPO_AXVPDS20101127_222119_20101127_194131_20101207_201512**

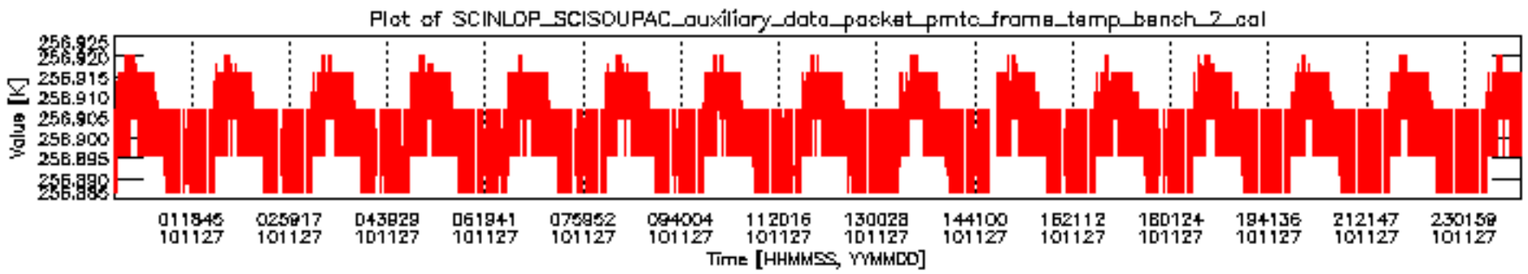


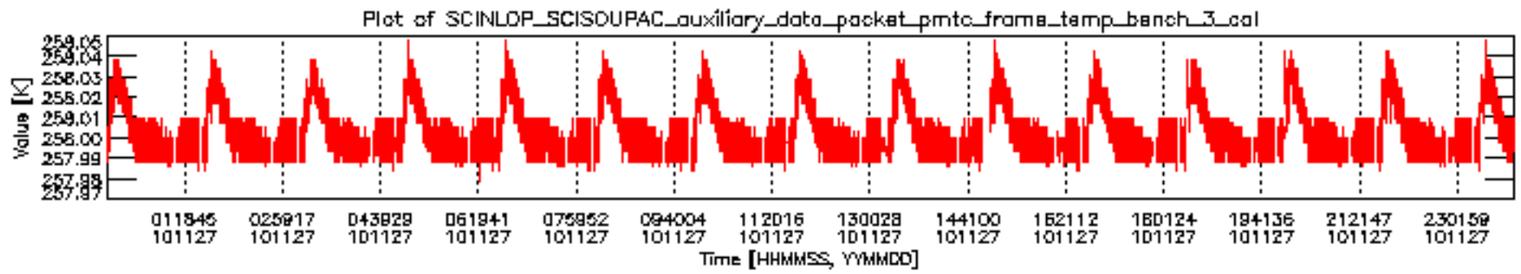
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101127_7.PNG

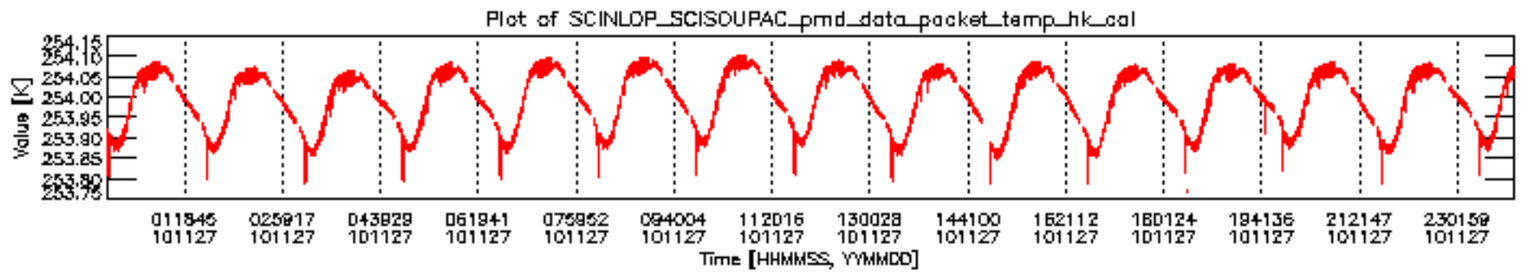


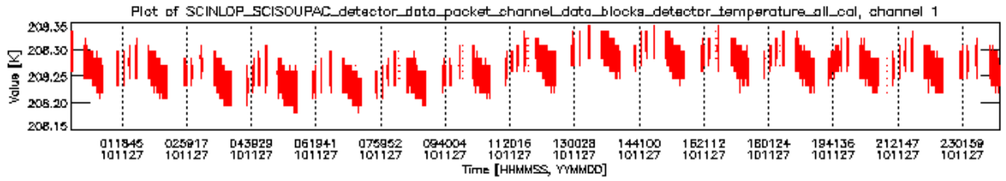
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101127_8.PNG

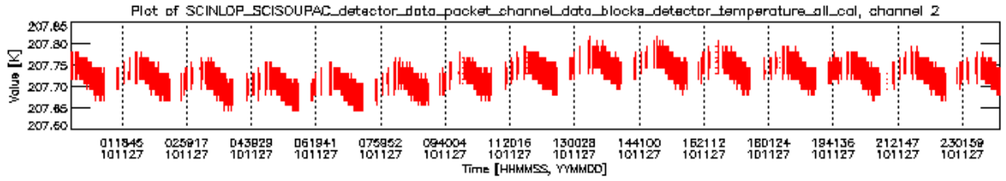

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_1_cal
Value [K]
251.59
251.56
251.57
251.58
251.55
251.54
251.53
251.52
251.51
011845 101127
025917 101127
043829 101127
061941 101127
075852 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

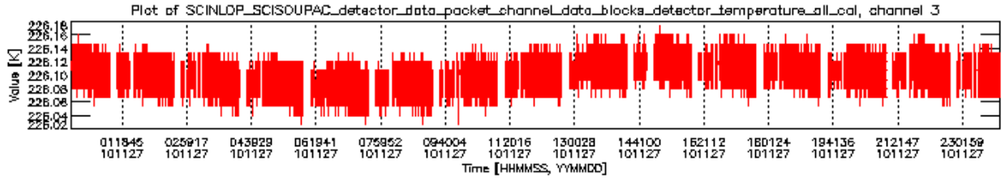

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_2_cal
Value [K]
256.925
256.920
256.915
256.910
256.905
256.900
256.895
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

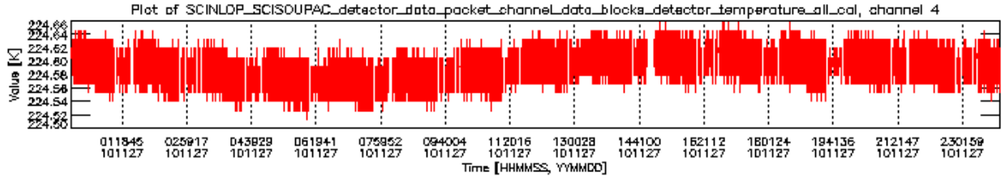

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_3_cal
Value [K]
259.05
259.04
259.03
259.02
259.01
259.00
257.99
257.98
257.97
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

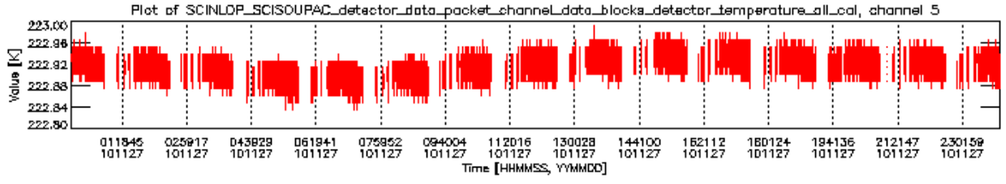

Plot of SCINLOP_SCISOUPAC_prnd_data_packet_temp_hk_cal
Value [K]
254.15
254.10
254.05
254.00
253.95
253.90
253.85
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

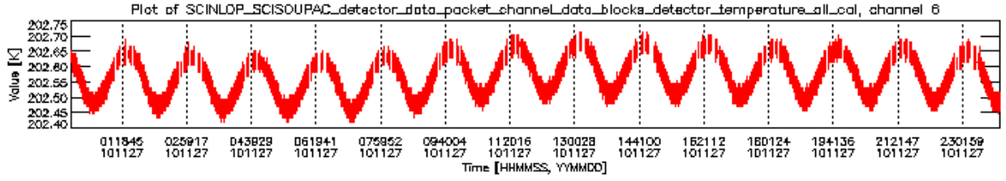

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
209.35
209.30
209.25
209.20
209.15
011846 101127
025917 101127
043829 101127
061941 101127
075852 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

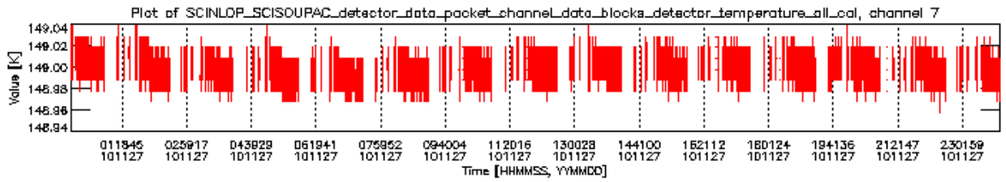

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
207.85
207.80
207.75
207.70
207.65
207.60
011846 101127
025917 101127
043829 101127
061941 101127
075852 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

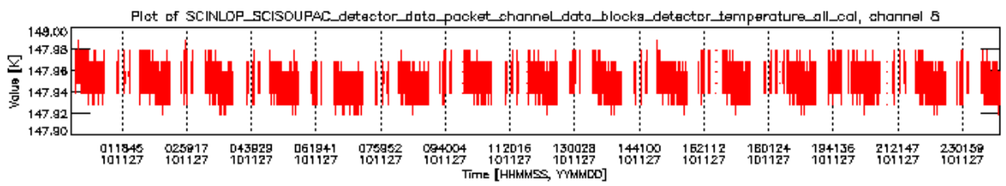

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
226.16
226.14
226.12
226.10
226.08
226.06
226.04
226.02
011846 101127
025917 101127
043829 101127
061941 101127
075852 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

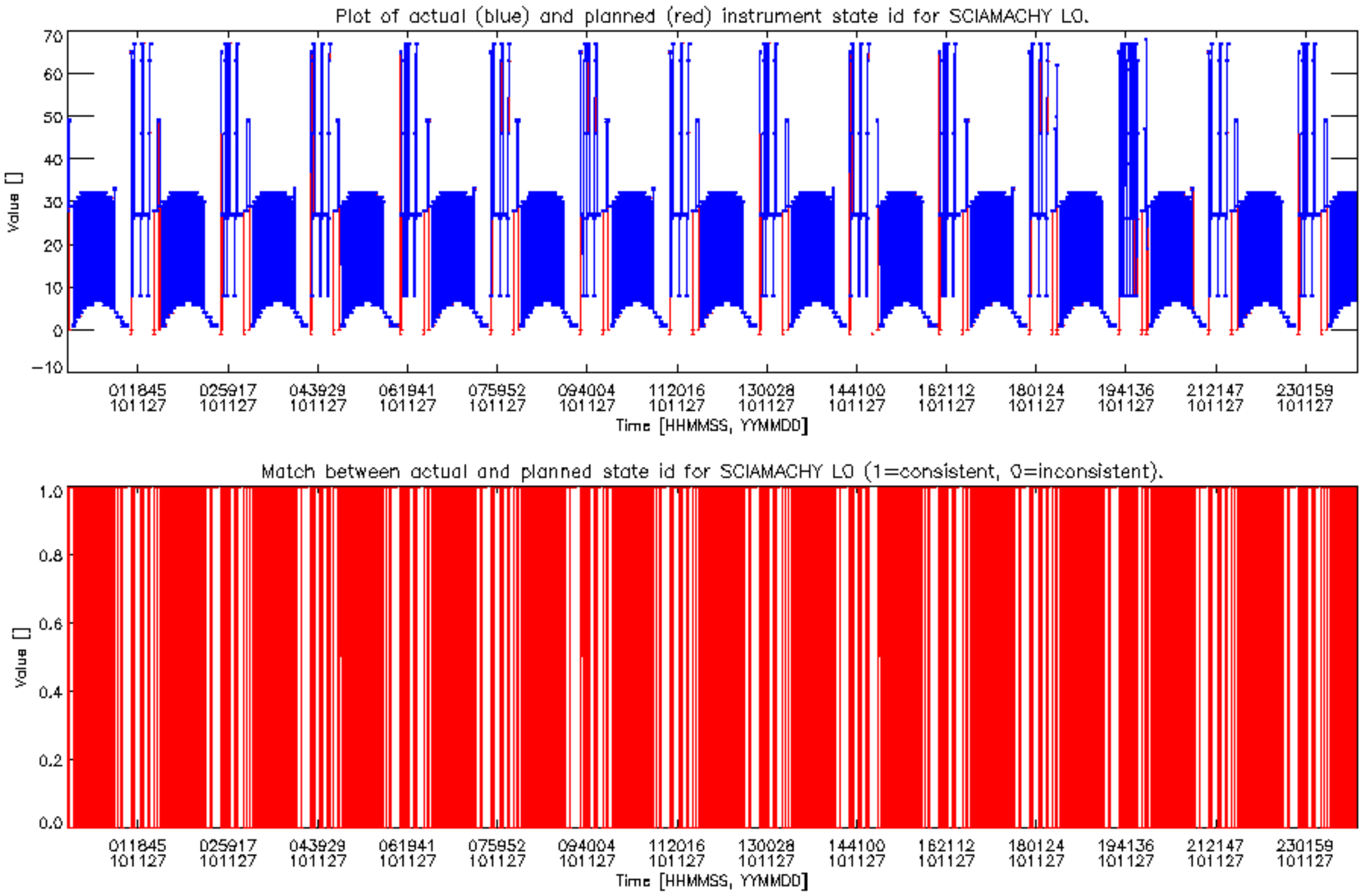

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
224.66
224.64
224.62
224.60
224.58
224.56
224.54
224.52
224.50
011846 101127
025917 101127
043829 101127
061941 101127
075852 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
223.00
222.96
222.92
222.88
222.84
222.80
011846 101127
025917 101127
043829 101127
061941 101127
075852 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

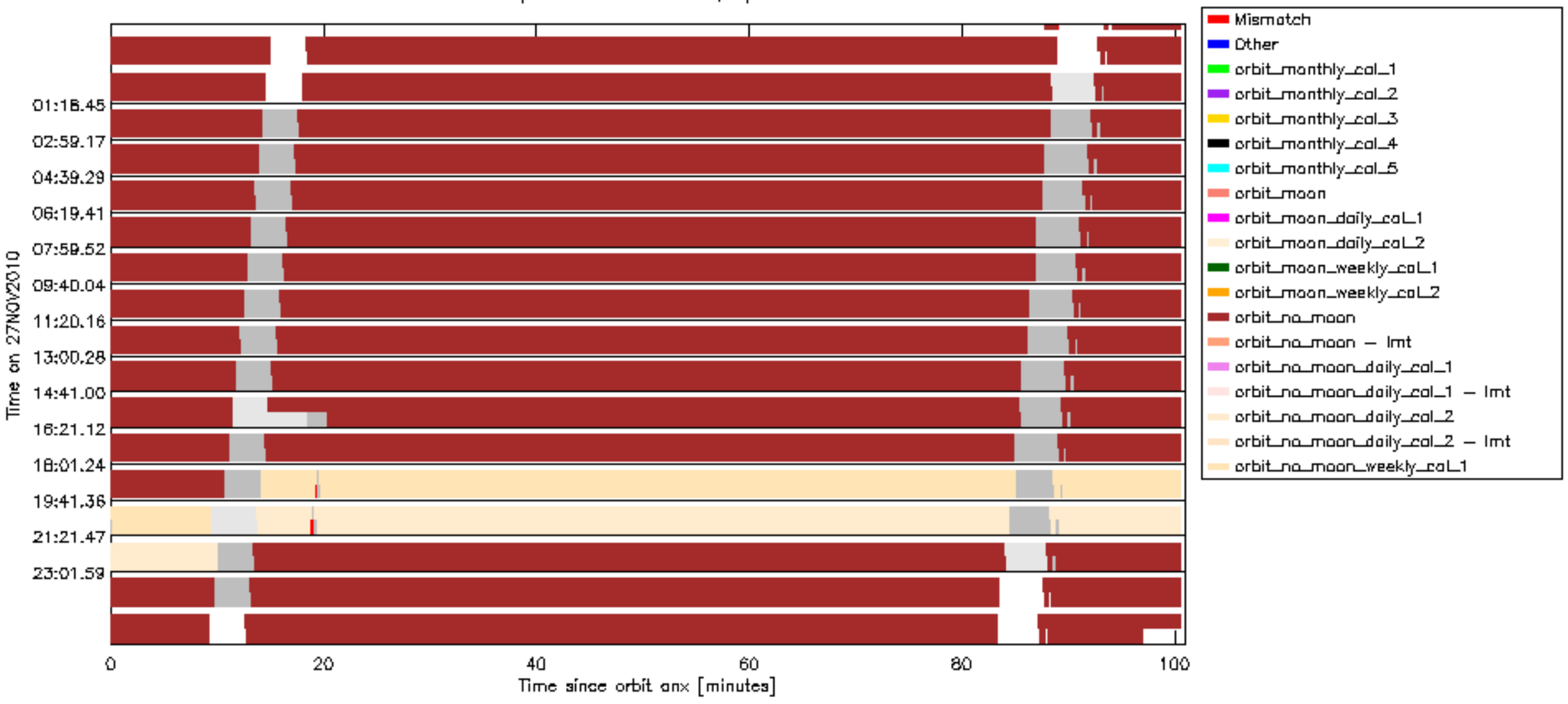

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
202.75
202.70
202.65
202.60
202.55
202.50
202.45
202.40
011846 101127
025917 101127
043829 101127
061941 101127
075852 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

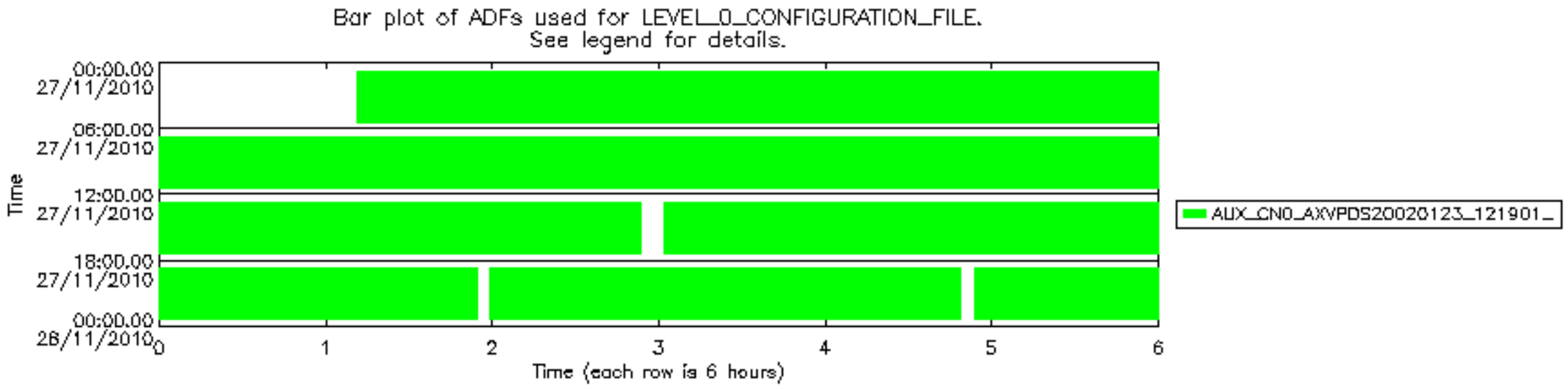

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
149.04
149.02
149.00
148.98
148.96
148.94
011846 101127
025917 101127
043829 101127
061941 101127
075852 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

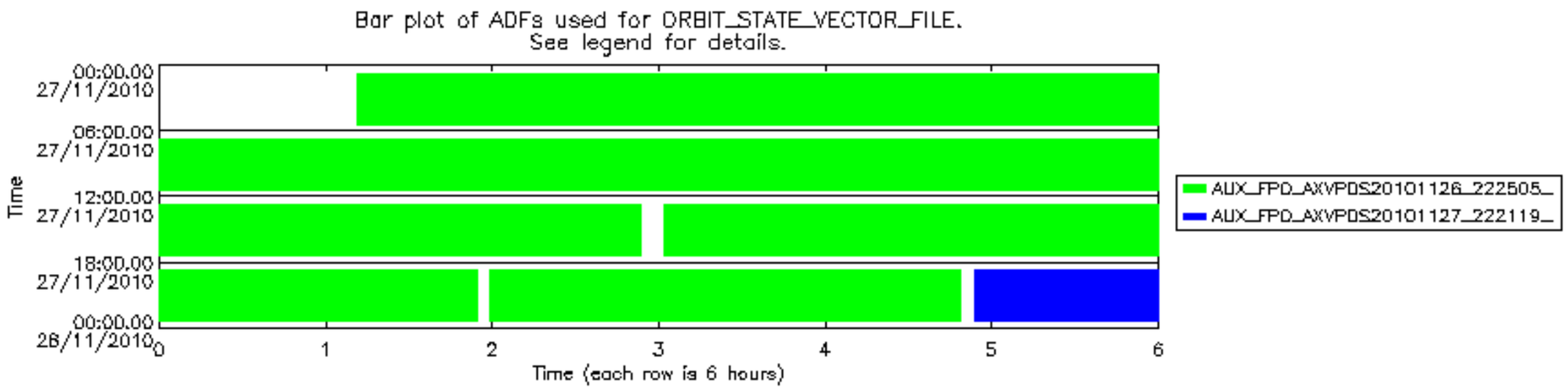

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
148.00
147.98
147.96
147.94
147.92
147.90
011846 101127
025917 101127
043829 101127
061941 101127
075852 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]


Plot of actual (blue) and planned (red) instrument state id for SCIAMACHY LO.
Value []
70
60
50
40
30
20
10
0
−10
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]
Match between actual and planned state id for SCIAMACHY LO (1=consistent, 0=inconsistent).
Value []
1.0
0.8
0.6
0.4
0.2
0.0
011845 101127
025917 101127
043929 101127
061941 101127
075952 101127
094004 101127
112016 101127
130028 101127
144100 101127
162112 101127
180124 101127
194136 101127
212147 101127
230159 101127
Time [HHMMSS, YYMMDD]

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 27NOV2010.
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.




Bar plot of ADFs used for LEVEL_0_CONFIGURATION_FILE.
See legend for details.
00:00.00
27/11/2010
06:00.00
27/11/2010
12:00.00
27/11/2010
18:00.00
27/11/2010
00:00.00
28/11/2010
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_CN0_AXVPDS20020123_121901_


Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.
See legend for details.
00:00.00
27/11/2010
06:00.00
27/11/2010
12:00.00
27/11/2010
18:00.00
27/11/2010
00:00.00
28/11/2010
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_FPD_AXVPDS20101126_222505_
AUX_FPD_AXVPDS20101127_222119_