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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 chacteristics of the data that are included into this report.

Item	Value
Report version	v1.4 20100407
Time of report generation	17NOV2010 03:09:35
Data source version	KSPT_L0/4504-N
Processing scope for products	10NOV2010 00:00:00 to 11NOV2010 00:00:00
Start time of first product within scope	10NOV2010 01:27:20
Stop time of last product within scope	11NOV2010 00:50:42
Total number of Level 0 products	15
Number of Level 0 products with errors	0

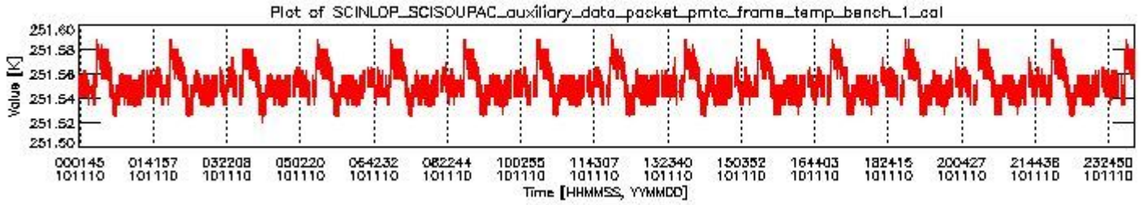
0.1.2 Summary per product

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

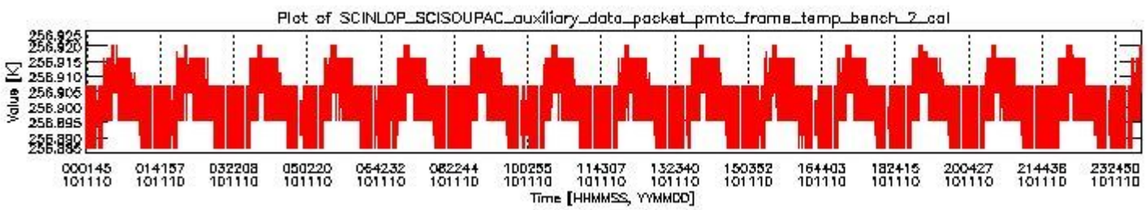
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDE20101110_012720_000044153096_00189_45462_1875.N1	10NOV2010 01:27:20	10NOV2010 02:40:56	0	0	0	0	0
1	SCI_NL__0PNPDE20101110_023947_000061913096_00190_45463_1876.N1	10NOV2010 02:39:47	10NOV2010 04:22:59	0	0	0	0	0
2	SCI_NL__0PNPDE20101110_042204_000060143096_00191_45464_1877.N1	10NOV2010 04:22:04	10NOV2010 06:02:19	0	0	0	0	0
3	SCI_NL__0PNPDK20101110_060219_000041733096_00192_45465_2929.N1	10NOV2010 06:02:19	10NOV2010 07:11:52	0	0	0	0	0
4	SCI_NL__0PNPDK20101110_070949_000060143096_00193_45466_2930.N1	10NOV2010 07:09:49	10NOV2010 08:50:04	0	0	0	0	0
5	SCI_NL__0PNPDK20101110_084910_000060003096_00194_45467_2931.N1	10NOV2010 08:49:10	10NOV2010 10:29:10	0	0	0	0	0
6	SCI_NL__0PNPDK20101110_102721_000061913096_00195_45468_2932.N1	10NOV2010 10:27:21	10NOV2010 12:10:33	0	0	0	0	0
7	SCI_NL__0PNPDK20101110_120830_000060693096_00196_45469_2933.N1	10NOV2010 12:08:30	10NOV2010 13:49:38	0	0	0	0	0
8	SCI_NL__0PNPDK20101110_134844_000059063096_00197_45470_2934.N1	10NOV2010 13:48:44	10NOV2010 15:27:10	0	0	0	0	0
9	SCI_NL__0PNPDK20101110_152616_000058773096_00198_45471_2935.N1	10NOV2010 15:26:16	10NOV2010 17:04:13	0	0	0	0	0
10	SCI_NL__0PNPDK20101110_170413_000057973096_00199_45472_2936.N1	10NOV2010 17:04:13	10NOV2010 18:40:49	0	0	0	0	0
11	SCI_NL__0PNPDK20101110_184049_000060693096_00200_45473_2937.N1	10NOV2010 18:40:49	10NOV2010 20:21:58	0	0	0	0	0
12	SCI_NL__0PNPDE20101110_202104_000041643096_00201_45474_1878.N1	10NOV2010 20:21:04	10NOV2010 21:30:28	0	0	0	0	0
13	SCI_NL__0PNPDE20101110_213531_000057113096_00201_45474_1879.N1	10NOV2010 21:35:31	10NOV2010 23:10:42	0	0	0	0	0
14	SCI_NL__0PNPDE20101110_231545_000056973096_00202_45475_1880.N1	10NOV2010 23:15:45	11NOV2010 00:50:42	0	0	0	0	0

0.2 Product Quality Indicators

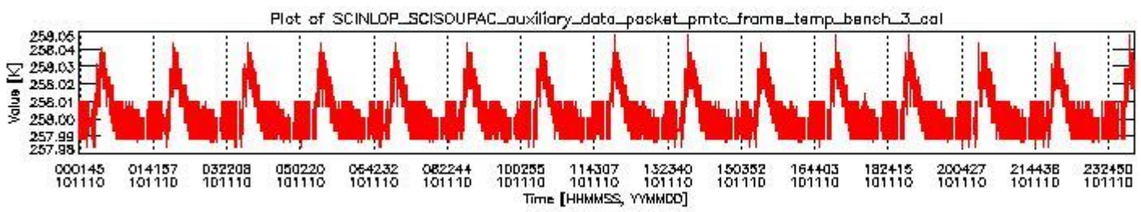
This section shows information about product quality, currently temperatures.



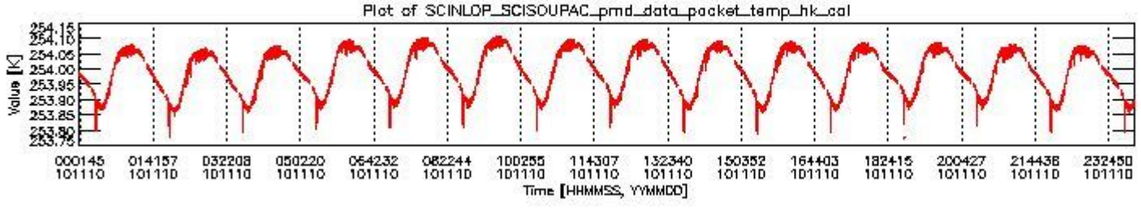
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101110_0.PNG



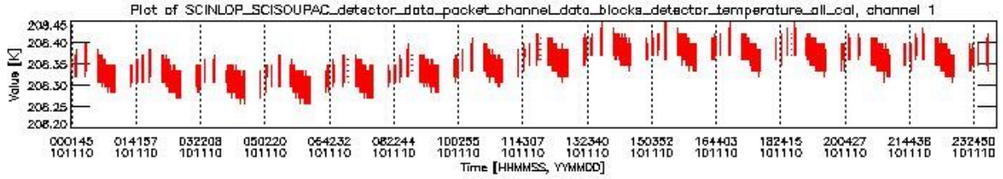
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101110_1.PNG

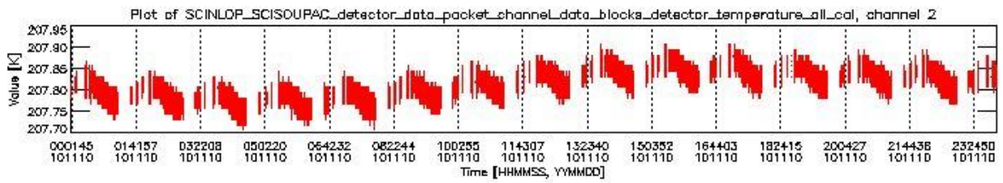


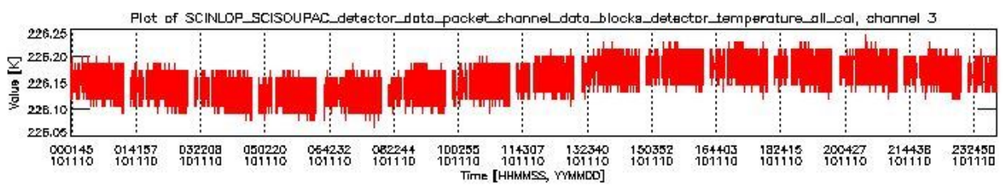
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101110_2.PNG

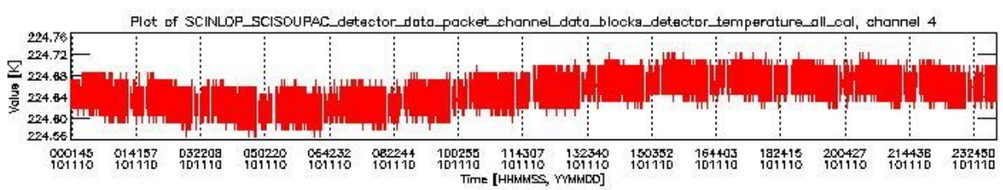


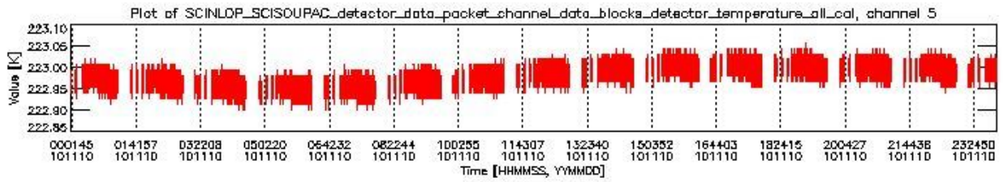
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101110_3.PNG

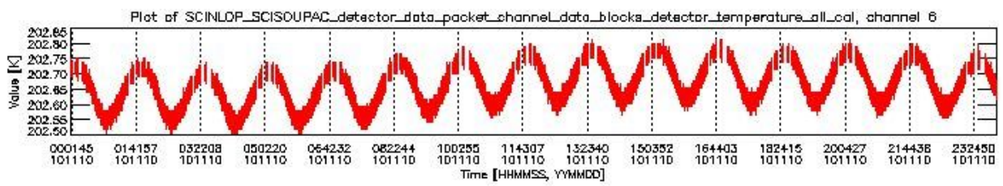

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
208.45
208.40
208.35
208.30
208.25
208.20
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]

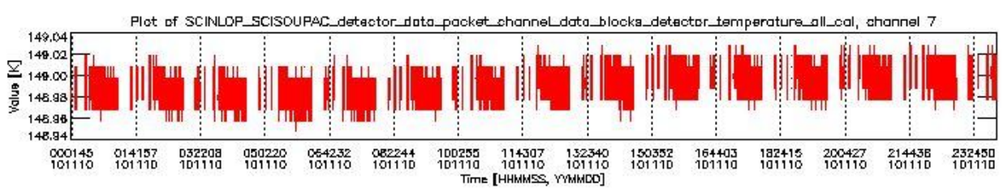

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
207.95
207.90
207.85
207.80
207.75
207.70
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]

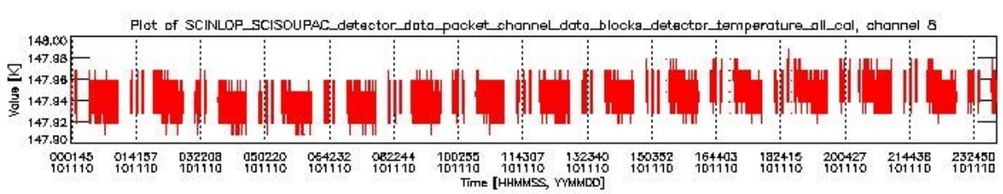

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
226.25
226.20
226.15
226.10
226.05
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
224.76
224.72
224.68
224.64
224.60
224.56
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
223.10
223.05
223.00
222.95
222.90
222.85
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
202.85
202.80
202.75
202.70
202.65
202.60
202.55
202.50
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
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
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]

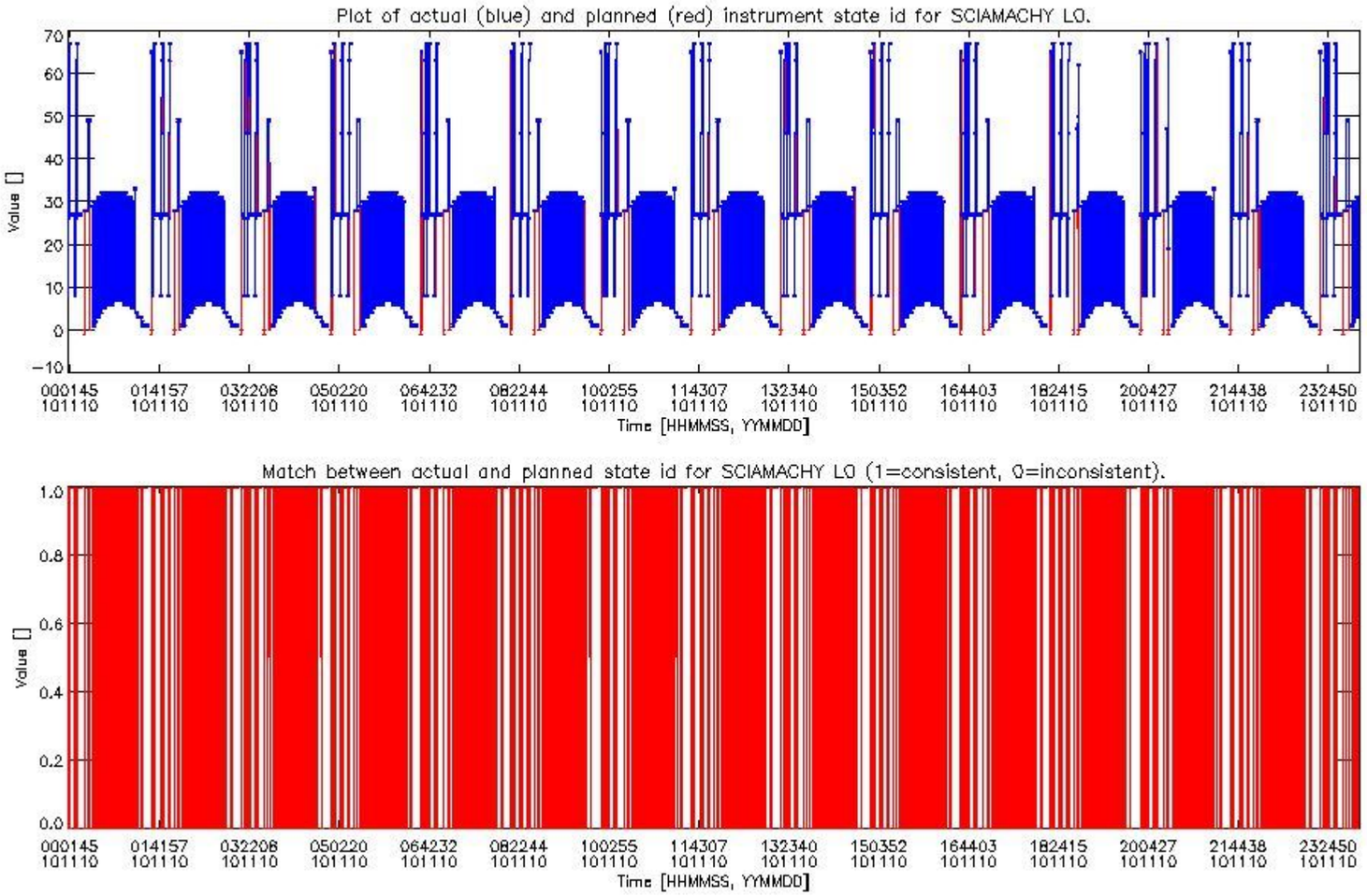

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
148.00
147.98
147.96
147.94
147.92
147.90
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
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: 29209

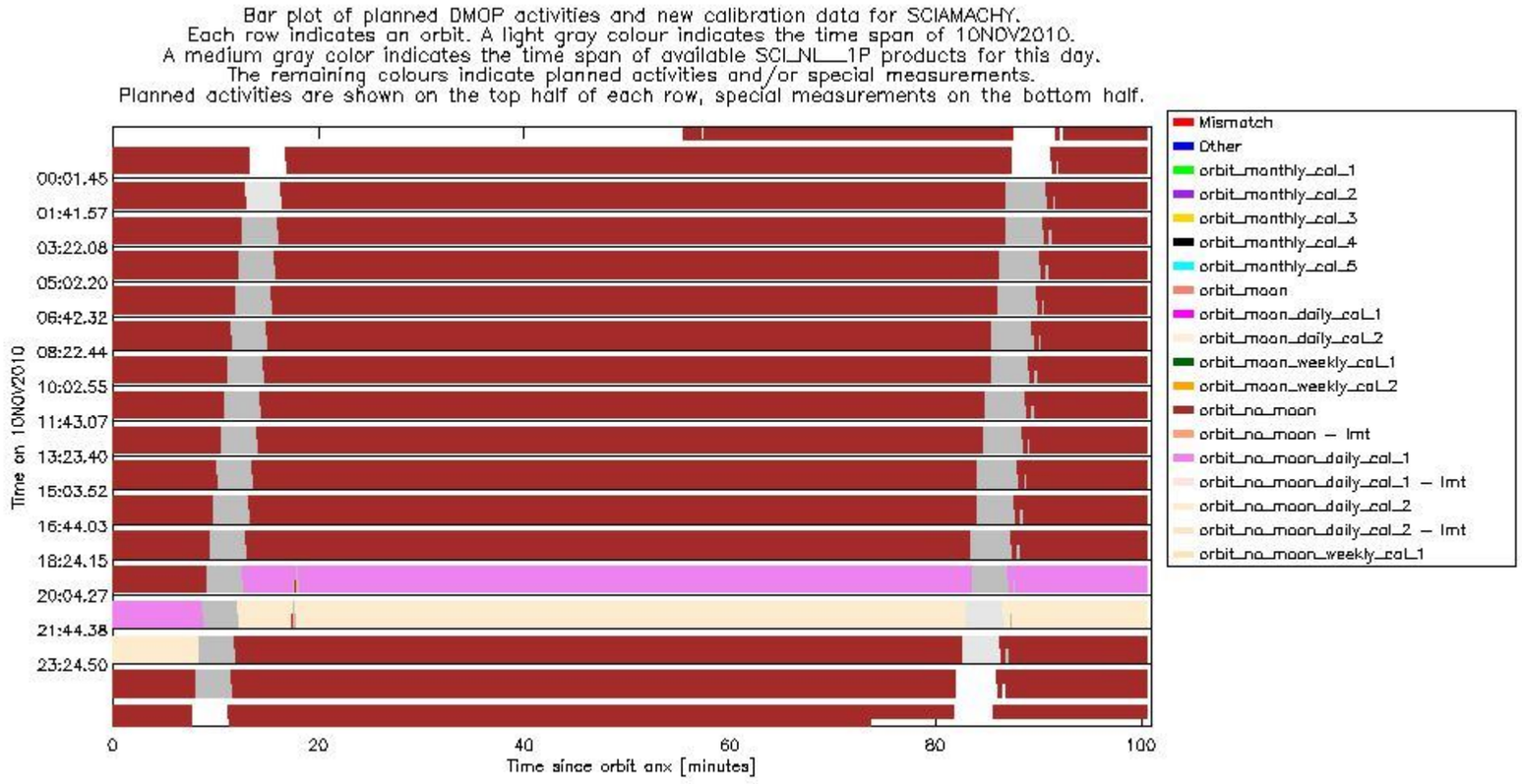
#	Actual time	Actual value	Planned time	Planned value
0	10NOV2010 00:00:04.940471	46	10NOV2010 00:00:04.940471	26
1	10NOV2010 00:00:05.565471	46	10NOV2010 00:00:05.565471	26
2	10NOV2010 00:00:06.065471	46	10NOV2010 00:00:06.065471	26
3	10NOV2010 00:00:06.565471	46	10NOV2010 00:00:06.565471	26
4	10NOV2010 00:00:07.065471	46	10NOV2010 00:00:07.065471	26
5	10NOV2010 00:00:07.565471	46	10NOV2010 00:00:07.565471	26
6	10NOV2010 00:00:08.065471	46	10NOV2010 00:00:08.065471	26
7	10NOV2010 00:00:08.565471	46	10NOV2010 00:00:08.565471	26
8	10NOV2010 00:00:09.065471	46	10NOV2010 00:00:09.065471	26
9	10NOV2010 00:00:09.565471	46	10NOV2010 00:00:09.565471	26
10	10NOV2010 00:00:09.940471	46	10NOV2010 00:00:09.940471	26
11	10NOV2010 00:00:10.065471	46	10NOV2010 00:00:10.065471	26
12	10NOV2010 00:00:10.565471	46	10NOV2010 00:00:10.565471	26
13	10NOV2010 00:00:11.065471	46	10NOV2010 00:00:11.065471	26
14	10NOV2010 00:00:11.565471	46	10NOV2010 00:00:11.565471	26
15	10NOV2010 00:00:18.499067	63	10NOV2010 00:00:18.499067	46
16	10NOV2010 00:00:18.999067	63	10NOV2010 00:00:18.999067	46
17	10NOV2010 00:00:19.374067	63	10NOV2010 00:00:19.374067	46
18	10NOV2010 00:00:19.749067	63	10NOV2010 00:00:19.749067	46
19	10NOV2010 00:00:20.124067	63	10NOV2010 00:00:20.124067	46
	...	...	...	...



sciamachy_daily_report_level0_KSPT_L0_4504_N_20101110_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.



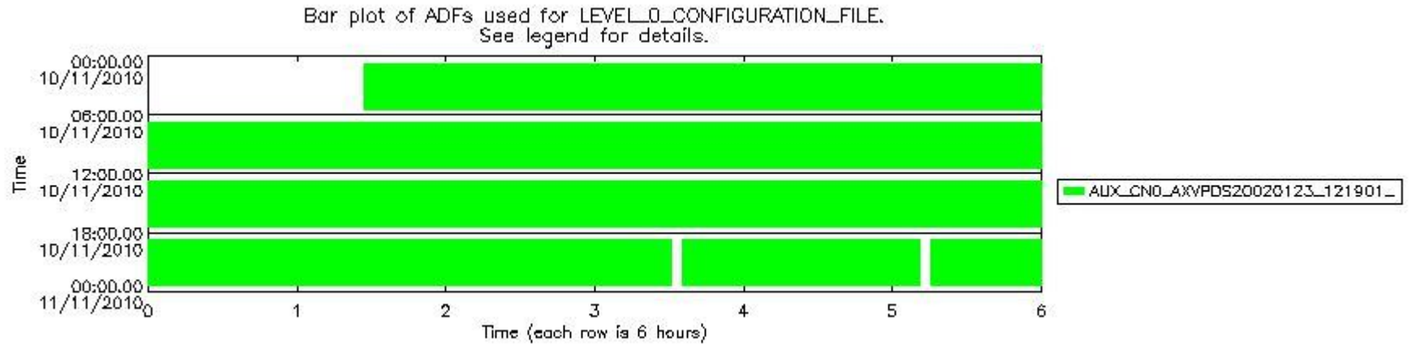
0.4 ADF monitoring

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

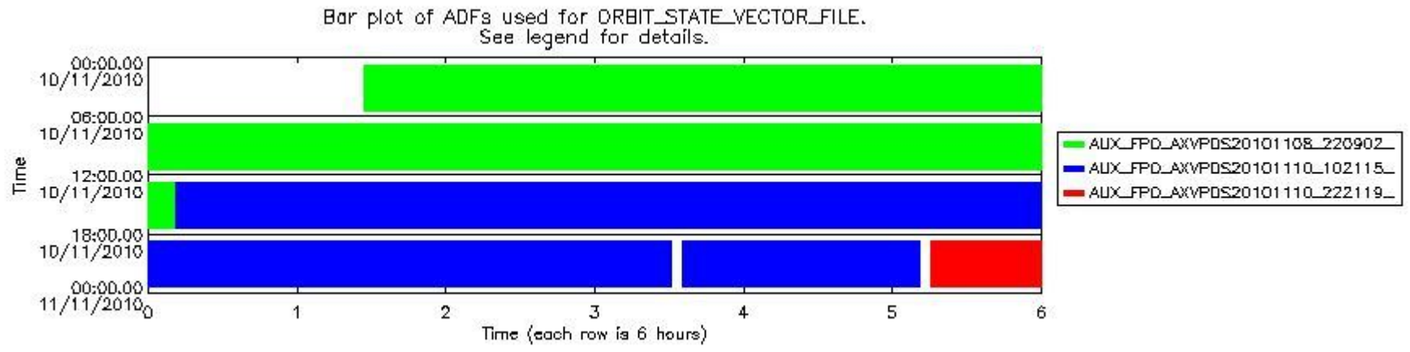
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

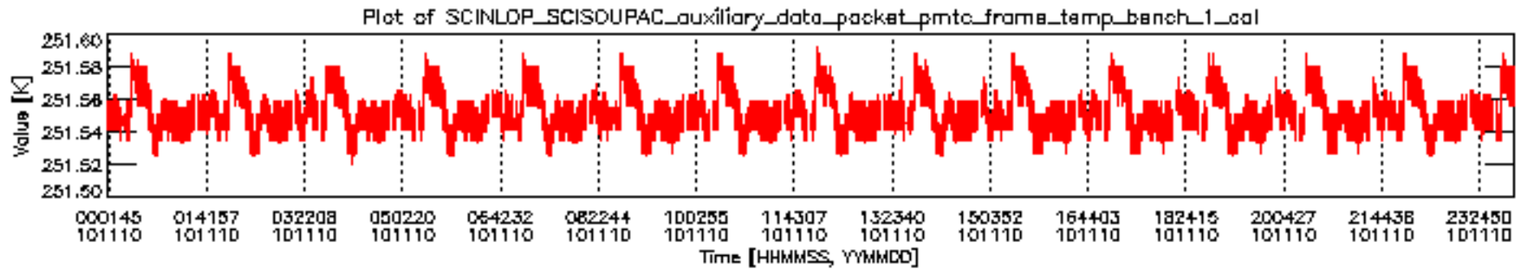
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	**AUX_FPO_AXVPDS20101108_220902_20101108_193740_20101118_201121**
2	**AUX_FPO_AXVPDS20101110_102115_20101109_190057_20101119_211452**
3	**AUX_FPO_AXVPDS20101110_222119_20101110_182413_20101120_203808**

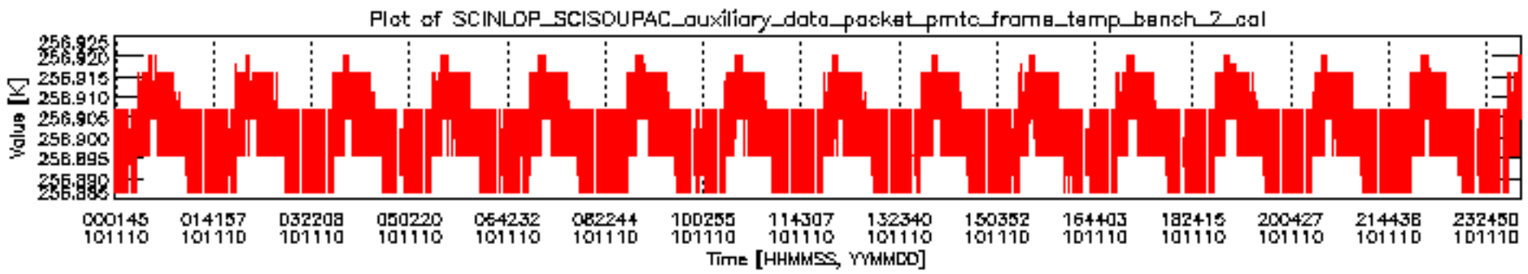


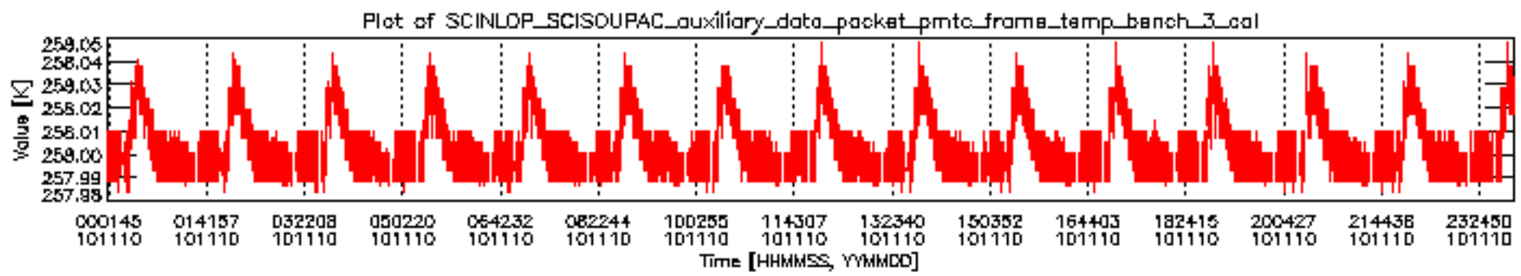
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101110_7.PNG

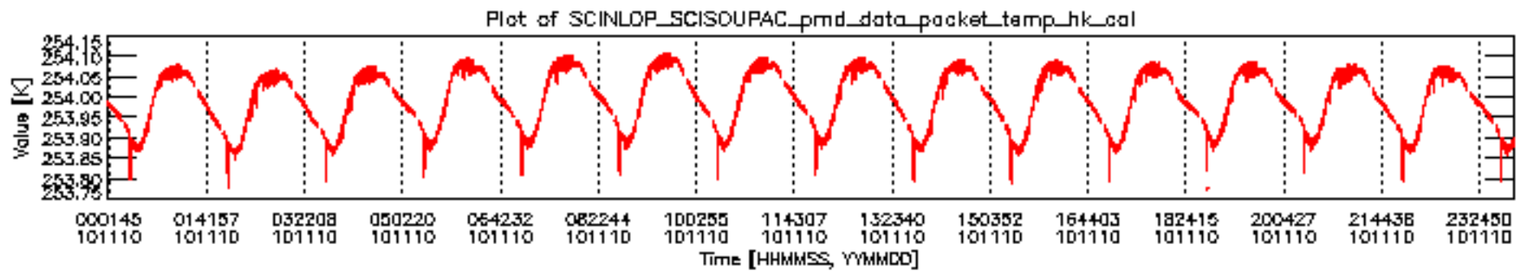


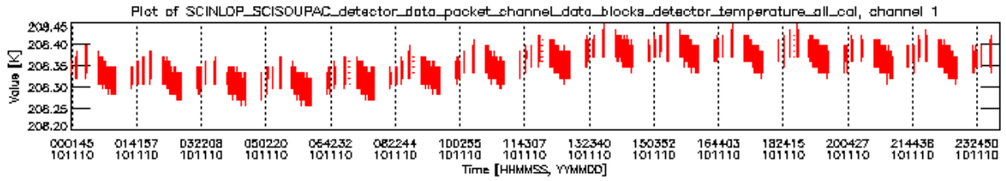
sciamachy_daily_report_level0_KSPT_L0_4504_N_20101110_8.PNG

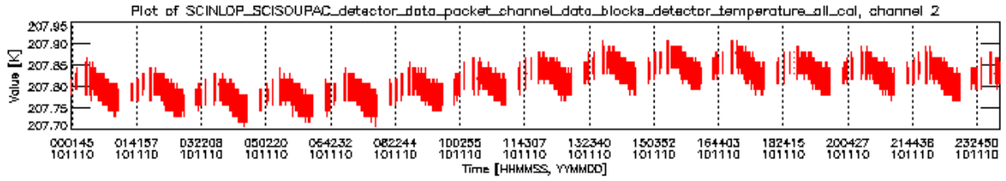

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_1_cal
Value [K]
251.60
251.58
251.56
251.54
251.52
251.50
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214438 101110
232450 101110
Time [HHMMSS, YYMMDD]

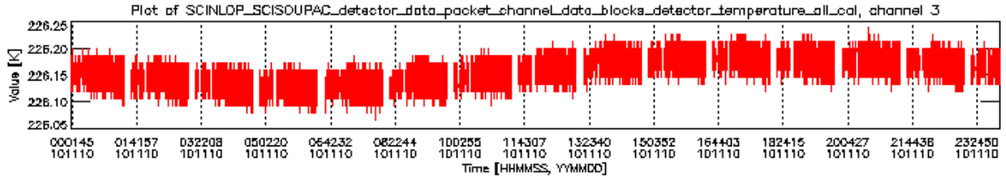

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_2_cal
Value [K]
256.925
256.920
256.915
256.910
256.905
256.900
256.895
256.890
256.885
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214438 101110
232450 101110
Time [HHMMSS, YYMMDD]

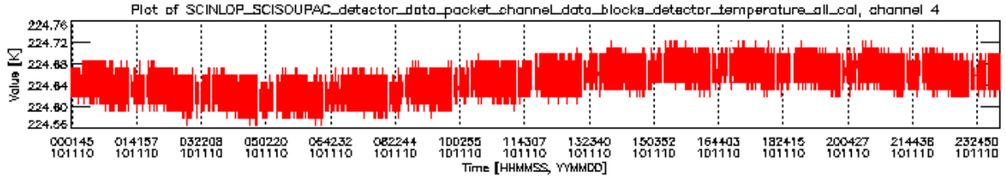

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_3_cal
Value [K]
259.05
259.04
259.03
259.02
259.01
259.00
257.99
257.98
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214438 101110
232450 101110
Time [HHMMSS, YYMMDD]

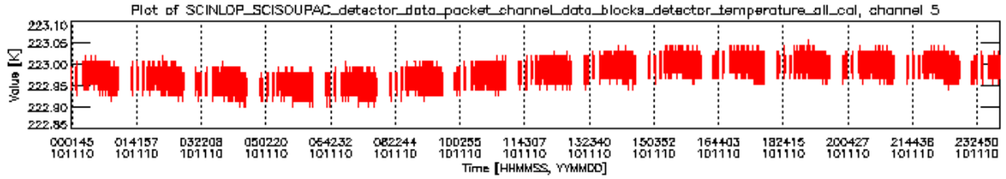

Plot of SCINLOP_SCISOUPAC_prnd_data_packet_temp_hk_cal
Value [K]
254.15
254.10
254.05
254.00
253.95
253.90
253.85
253.80
253.75
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214438 101110
232450 101110
Time [HHMMSS, YYMMDD]

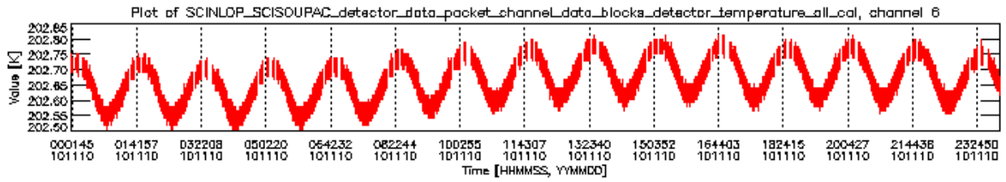

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
209.45
209.40
209.35
209.30
209.25
209.20
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]

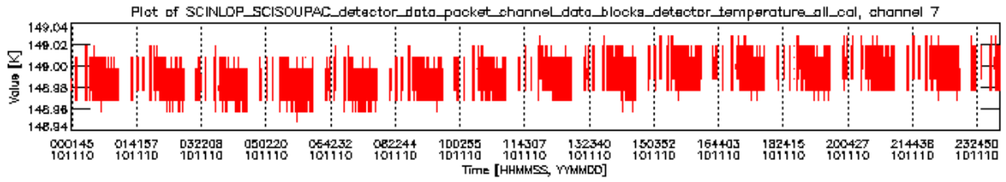

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
207.95
207.90
207.85
207.80
207.75
207.70
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]

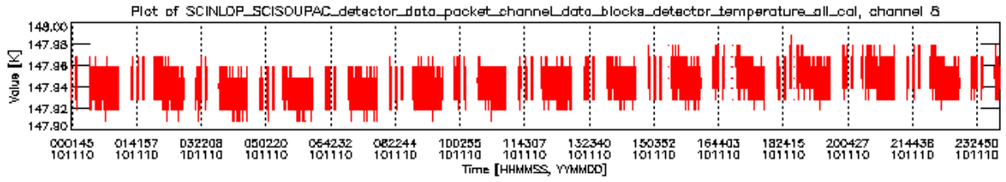

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
226.25
226.20
226.15
226.10
226.05
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]

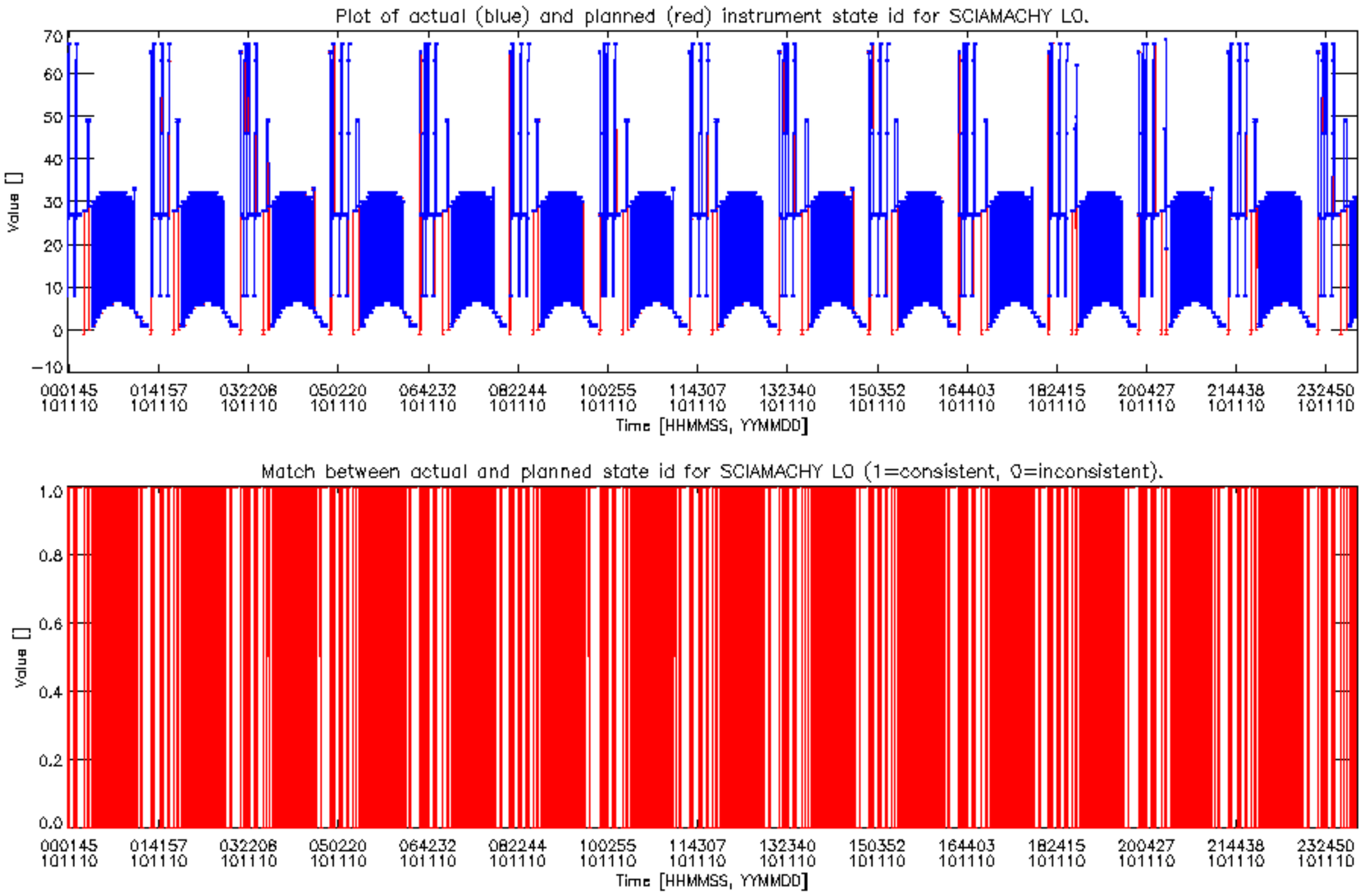

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
224.76
224.72
224.68
224.64
224.60
224.56
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
223.10
223.05
223.00
222.95
222.90
222.86
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]

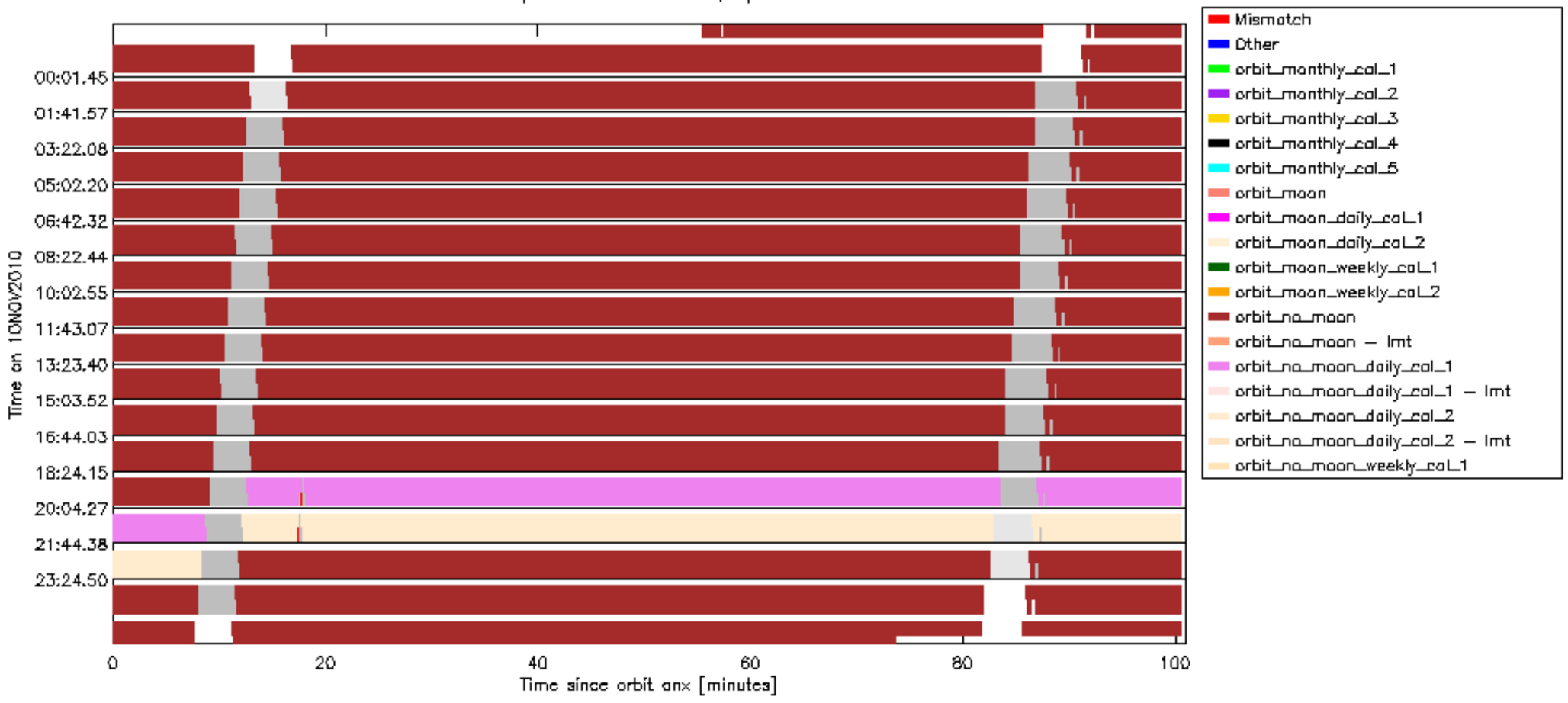

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
202.85
202.80
202.75
202.70
202.65
202.60
202.55
202.50
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]

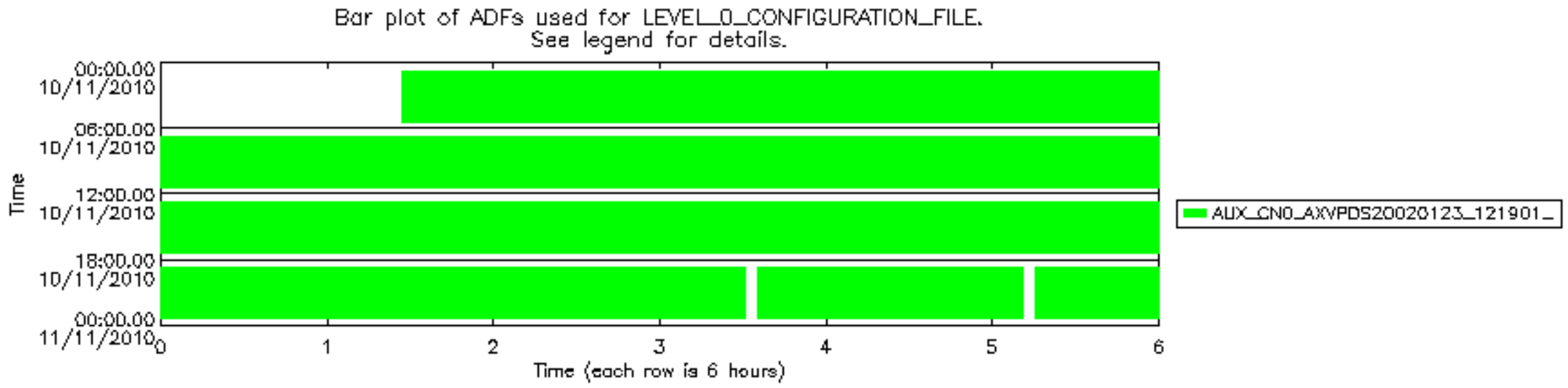

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
149.04
149.02
149.00
148.98
148.96
148.94
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
Time [HHMMSS, YYMMDD]

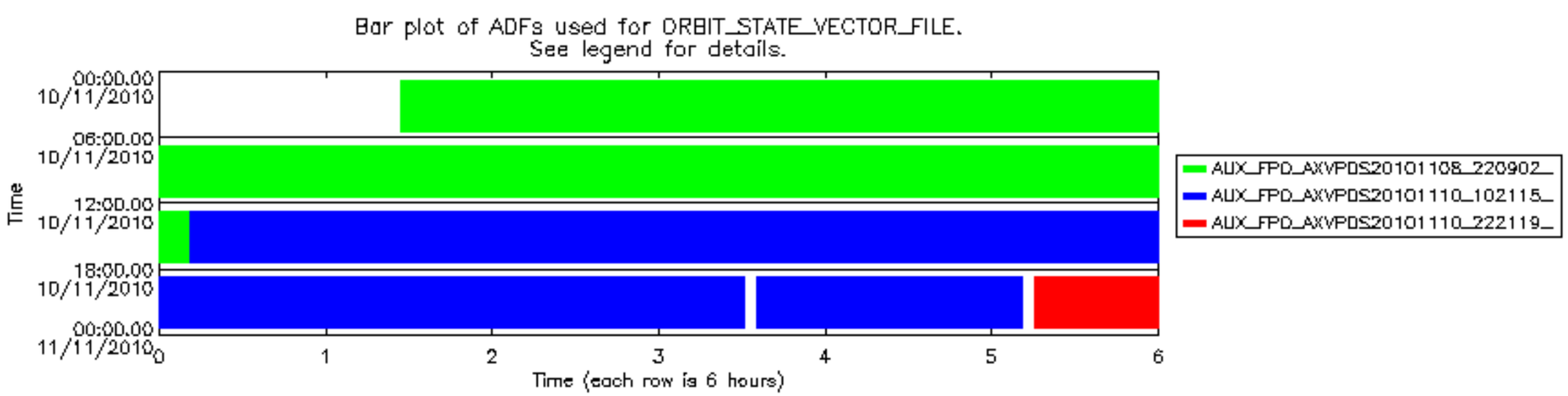

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
148.00
147.98
147.96
147.94
147.92
147.90
000145 101110
014157 101110
032208 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214436 101110
232450 101110
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
000145 101110
014157 101110
032206 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214438 101110
232450 101110
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
000145 101110
014157 101110
032206 101110
050220 101110
064232 101110
082244 101110
100255 101110
114307 101110
132340 101110
150352 101110
164403 101110
182415 101110
200427 101110
214438 101110
232450 101110
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 10NOV2010.
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
10/11/2010
06:00.00
10/11/2010
12:00.00
10/11/2010
18:00.00
10/11/2010
00:00.00
11/11/2010
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
10/11/2010
06:00.00
10/11/2010
12:00.00
10/11/2010
18:00.00
10/11/2010
00:00.00
11/11/2010
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_FPD_AXVPDS20101108_220902_
AUX_FPD_AXVPDS20101110_102115_
AUX_FPD_AXVPDS20101110_222119_