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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	10FEB2011 03:00:59
Data source version	KSPT_L0/4504-N
Processing scope for products	03FEB2011 00:00:00 to 04FEB2011 00:00:00
Start time of first product within scope	03FEB2011 01:18:38
Stop time of last product within scope	04FEB2011 00:34:58
Total number of Level 0 products	14
Number of Level 0 products with errors	0

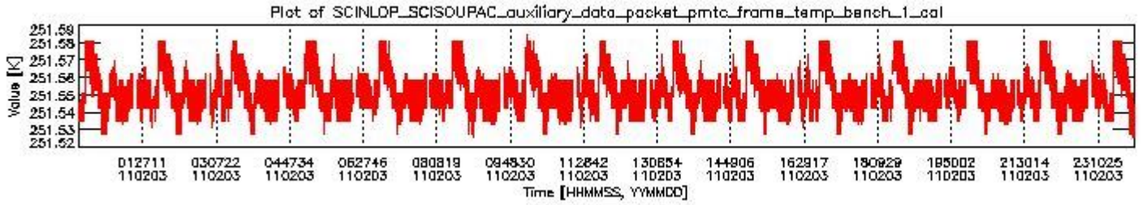
0.1.2 Summary per product

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

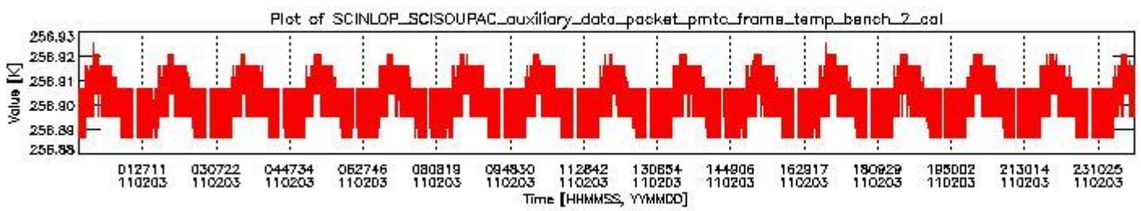
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDE20110203_011838_000100603099_00117_46683_2488.N1	03FEB2011 01:18:38	03FEB2011 04:06:18	0	0	0	0	0
1	SCI_NL__0PNPDE20110203_040510_000062633099_00119_46685_2489.N1	03FEB2011 04:05:10	03FEB2011 05:49:32	0	0	0	0	0
2	SCI_NL__0PNPDE20110203_054824_000062073099_00120_46686_2490.N1	03FEB2011 05:48:24	03FEB2011 07:31:50	0	0	0	0	0
3	SCI_NL__0PNPDK20110203_073054_000037613099_00121_46687_3732.N1	03FEB2011 07:30:54	03FEB2011 08:33:36	0	0	0	0	0
4	SCI_NL__0PNPDK20110203_083240_000062623099_00122_46688_3733.N1	03FEB2011 08:32:40	03FEB2011 10:17:02	0	0	0	0	0
5	SCI_NL__0PNPDK20110203_101458_000060693099_00123_46689_3734.N1	03FEB2011 10:14:58	03FEB2011 11:56:07	0	0	0	0	0
6	SCI_NL__0PNPDK20110203_115511_000060143099_00124_46690_3735.N1	03FEB2011 11:55:11	03FEB2011 13:35:25	0	0	0	0	0
7	SCI_NL__0PNPDK20110203_133320_000060143099_00125_46691_3736.N1	03FEB2011 13:33:20	03FEB2011 15:13:34	0	0	0	0	0
8	SCI_NL__0PNPDK20110203_151238_000059023099_00126_46692_3737.N1	03FEB2011 15:12:38	03FEB2011 16:51:00	0	0	0	0	0
9	SCI_NL__0PNPDK20110203_164842_000059573099_00127_46693_3738.N1	03FEB2011 16:48:42	03FEB2011 18:27:59	0	0	0	0	0
10	SCI_NL__0PNPDK20110203_182703_000059023099_00128_46694_3739.N1	03FEB2011 18:27:03	03FEB2011 20:05:25	0	0	0	0	0
11	SCI_NL__0PNPDE20110203_200525_000041683099_00129_46695_2491.N1	03FEB2011 20:05:25	03FEB2011 21:14:53	0	0	0	0	0
12	SCI_NL__0PNPDE20110203_211453_000059793099_00129_46695_2492.N1	03FEB2011 21:14:53	03FEB2011 22:54:32	0	0	0	0	0
13	SCI_NL__0PNPDE20110203_230136_000056023099_00130_46696_2493.N1	03FEB2011 23:01:36	04FEB2011 00:34:58	0	0	0	0	0

0.2 Product Quality Indicators

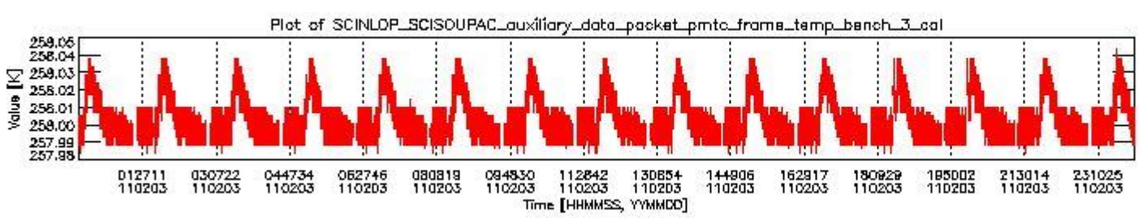
This section shows information about product quality, currently temperatures.



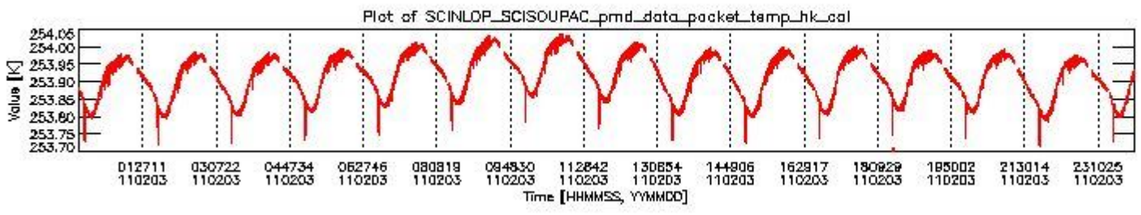
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110203_0.PNG



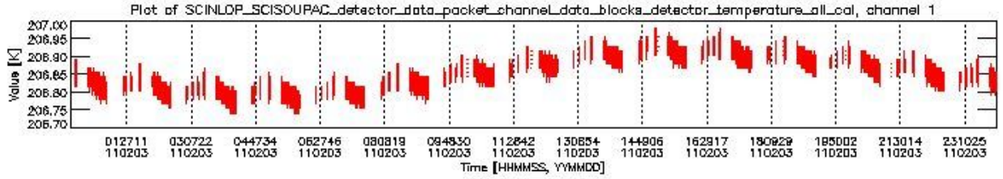
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110203_1.PNG

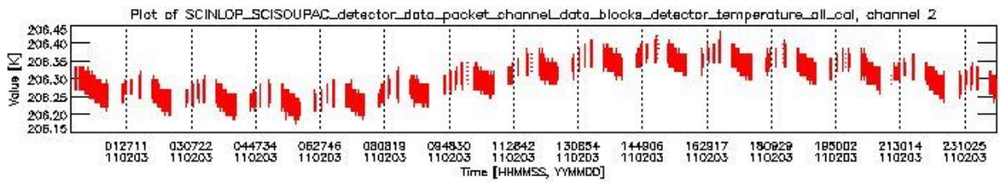


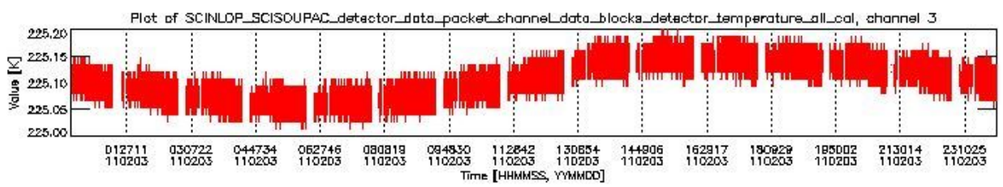
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110203_2.PNG

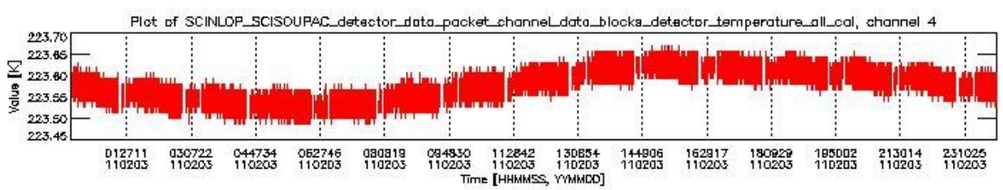


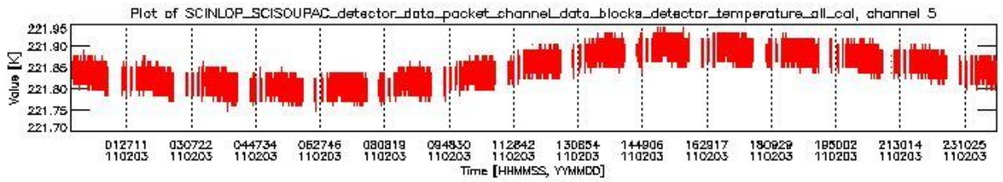
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110203_3.PNG

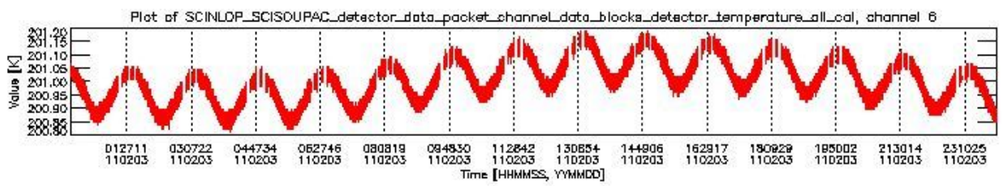

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
207.00
206.95
206.90
206.85
206.80
206.75
206.70
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

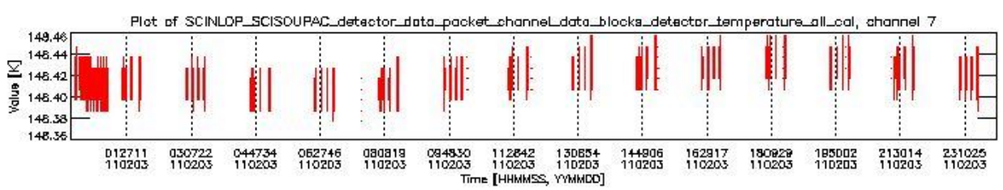

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
206.45
206.40
206.35
206.30
206.25
206.20
206.15
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

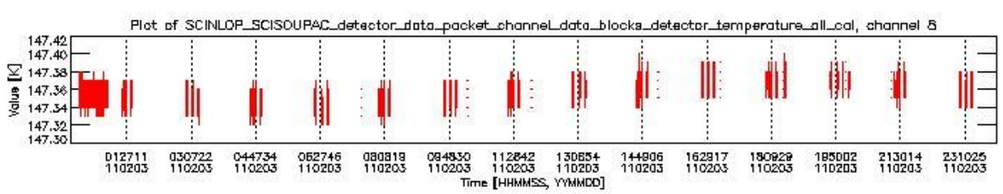

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
225.20
225.15
225.10
225.05
225.00
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
223.70
223.65
223.60
223.55
223.50
223.45
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
221.95
221.90
221.85
221.80
221.75
221.70
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
201.20
201.15
201.10
201.05
201.00
200.95
200.90
200.85
200.80
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
148.46
148.44
148.42
148.40
148.38
148.36
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

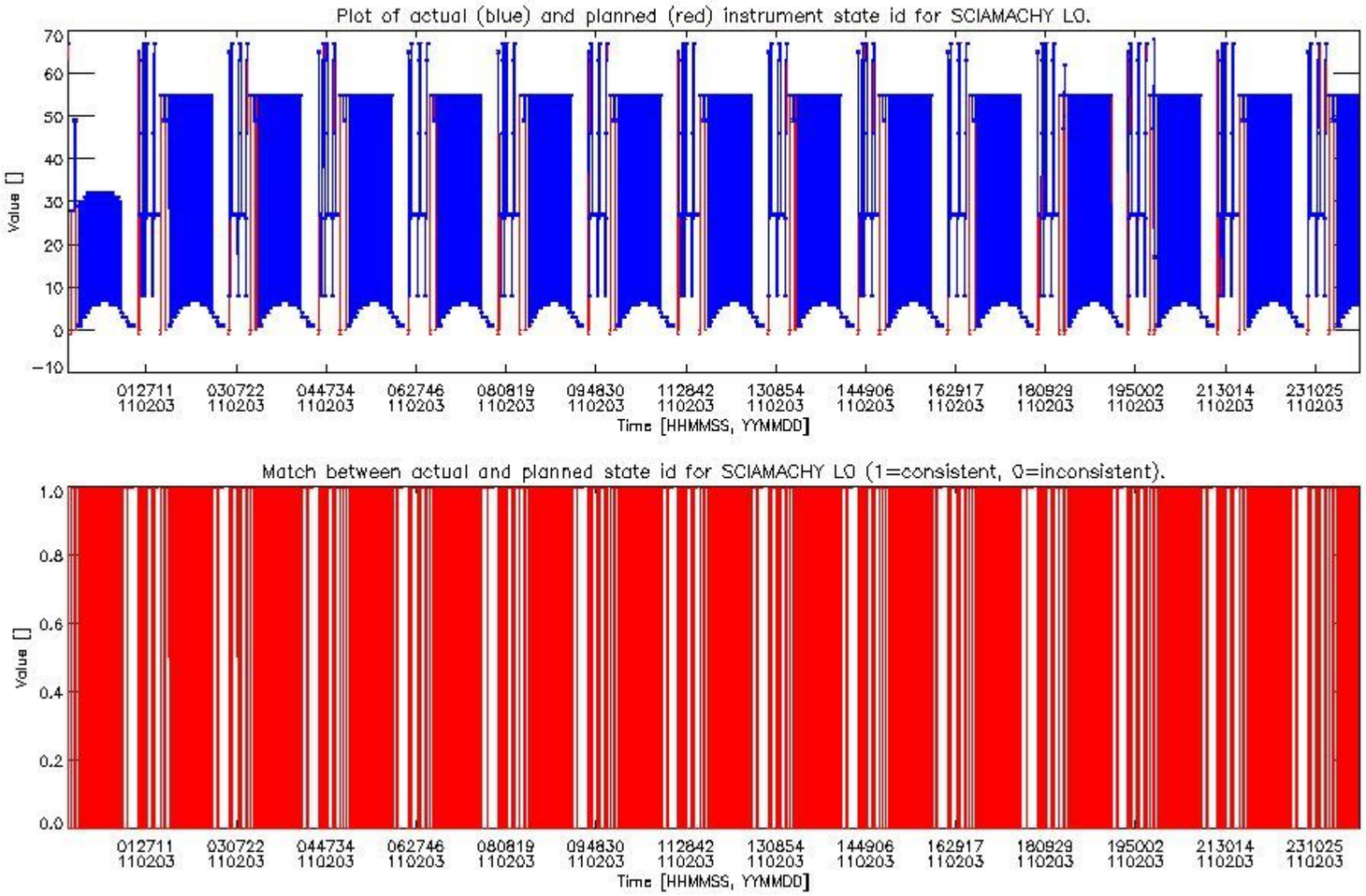

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
147.42
147.40
147.38
147.36
147.34
147.32
147.30
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
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: 29870

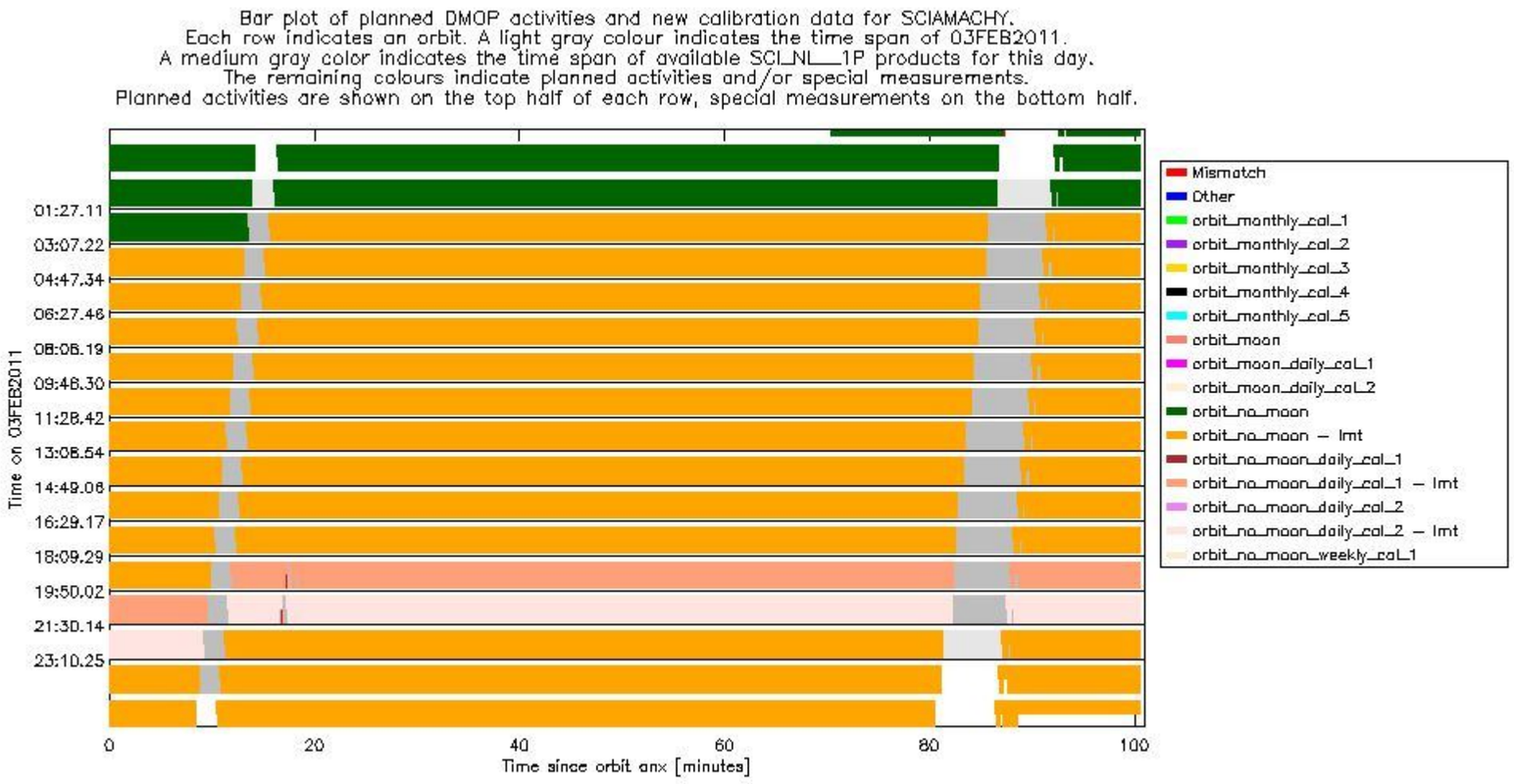
#	Actual time	Actual value	Planned time	Planned value
0	03FEB2011 00:02:48.933373	28	03FEB2011 00:02:48.933373	0
1	03FEB2011 00:02:49.558373	28	03FEB2011 00:02:49.558373	0
2	03FEB2011 00:02:49.933373	28	03FEB2011 00:02:49.933373	0
3	03FEB2011 00:02:50.308373	28	03FEB2011 00:02:50.308373	0
4	03FEB2011 00:02:50.870873	28	03FEB2011 00:02:50.870873	0
5	03FEB2011 00:02:51.245873	28	03FEB2011 00:02:51.245873	0
6	03FEB2011 00:02:51.620873	28	03FEB2011 00:02:51.620873	0
7	03FEB2011 00:02:51.995873	28	03FEB2011 00:02:51.995873	0
8	03FEB2011 00:02:52.558373	28	03FEB2011 00:02:52.558373	0
9	03FEB2011 00:02:52.933373	28	03FEB2011 00:02:52.933373	0
10	03FEB2011 00:02:53.308373	28	03FEB2011 00:02:53.308373	0
11	03FEB2011 00:02:53.683373	28	03FEB2011 00:02:53.683373	0
12	03FEB2011 00:02:53.933373	28	03FEB2011 00:02:53.933373	0
13	03FEB2011 00:02:54.245873	28	03FEB2011 00:02:54.245873	0
14	03FEB2011 00:02:54.620873	28	03FEB2011 00:02:54.620873	0
15	03FEB2011 00:02:54.995873	28	03FEB2011 00:02:54.995873	0
16	03FEB2011 00:02:55.370873	28	03FEB2011 00:02:55.370873	0
17	03FEB2011 00:06:26.702932	49	03FEB2011 00:06:26.702932	28
18	03FEB2011 00:06:26.890432	49	03FEB2011 00:06:26.890432	28
19	03FEB2011 00:06:26.952932	49	03FEB2011 00:06:26.952932	28
	...	...	...	...



sciamachy_daily_report_level0_KSPT_L0_4504_N_20110203_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.



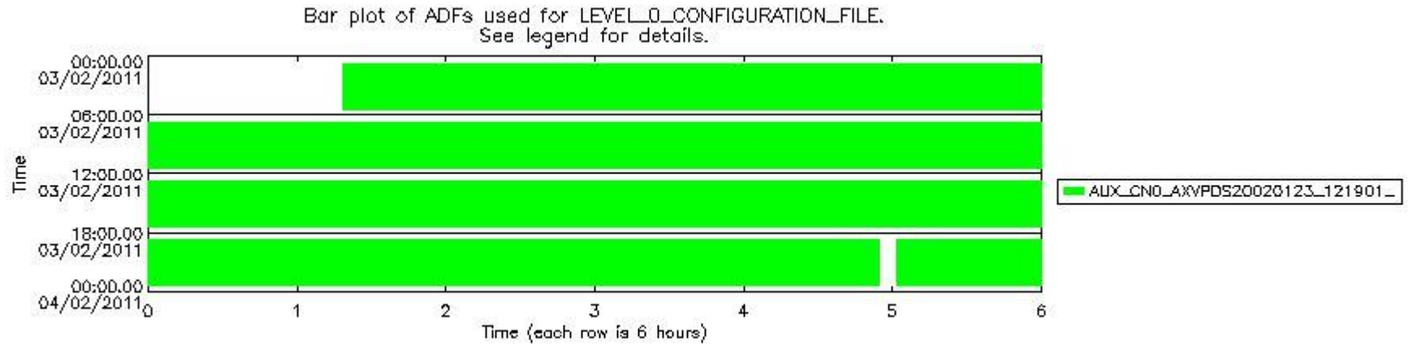
0.4 ADF monitoring

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

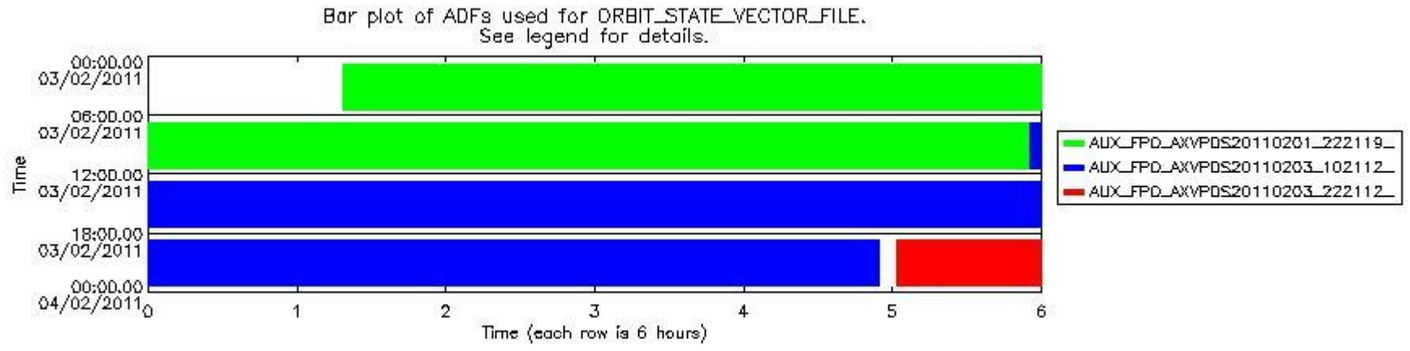
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

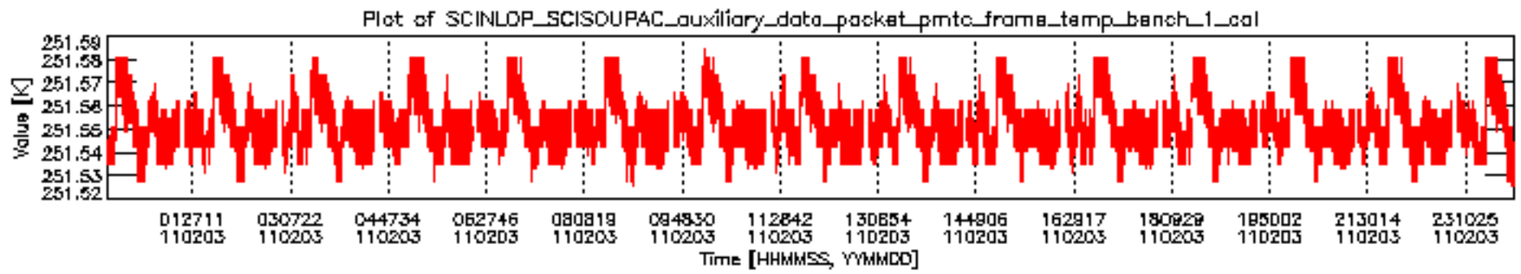
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	**AUX_FPO_AXVPDS20110201_222119_20110201_192304_20110211_213655**
2	**AUX_FPO_AXVPDS20110203_102112_20110202_184620_20110212_210011**
3	**AUX_FPO_AXVPDS20110203_222112_20110203_194950_20110213_202327**

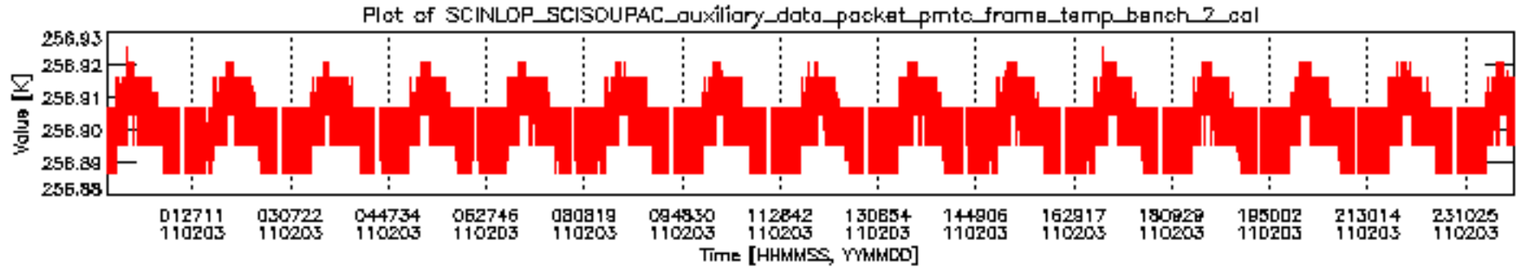


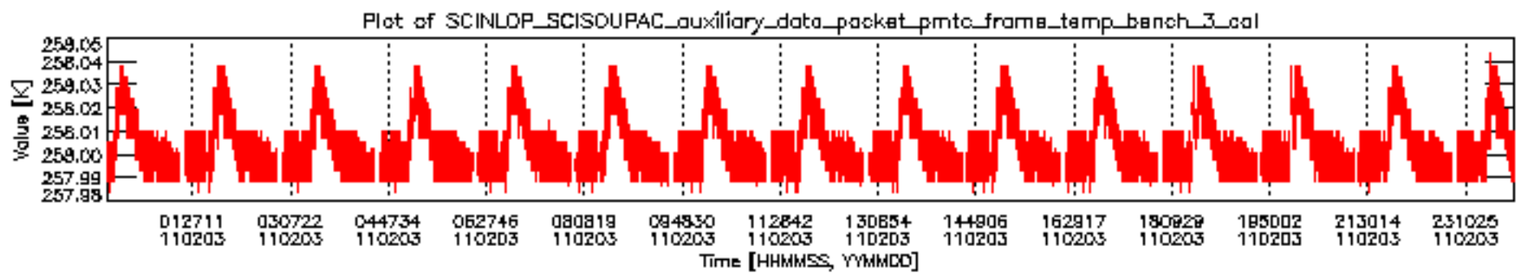
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110203_7.PNG

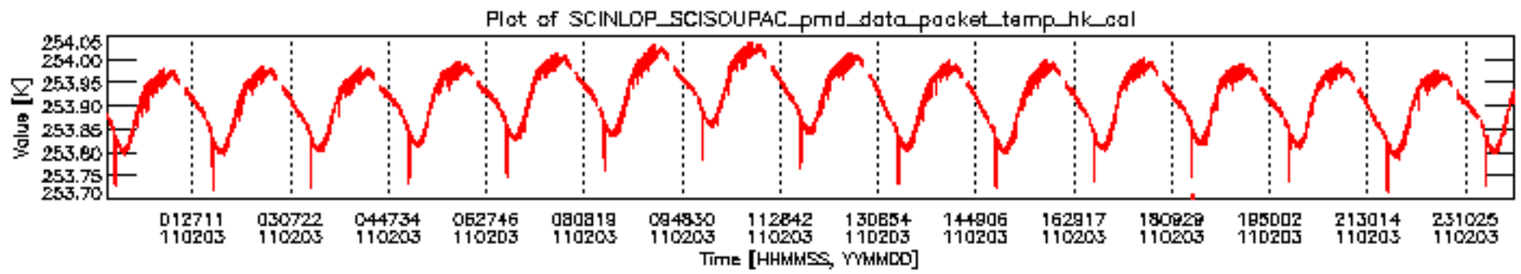


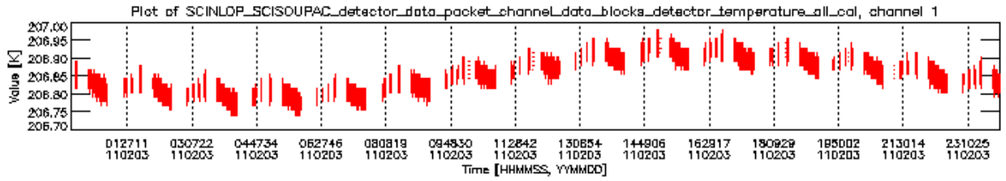
sciamachy_daily_report_level0_KSPT_L0_4504_N_20110203_8.PNG

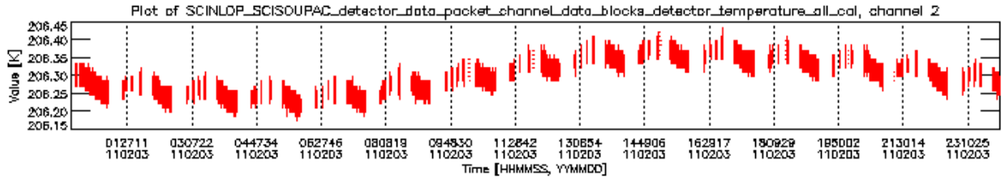

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_1_cal
Value [K]
251.59
251.58
251.57
251.56
251.55
251.54
251.53
251.52
012711 110203
030722 110203
044734 110203
062746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

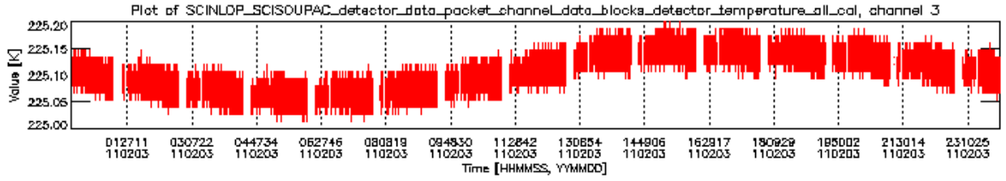

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_2_cal
Value [K]
256.93
256.92
256.91
256.90
256.89
256.88
012711 110203
030722 110203
044734 110203
062746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

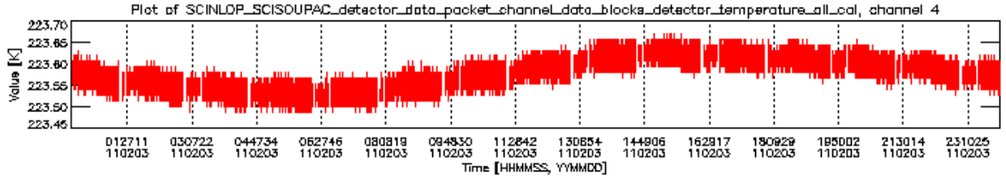

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_3_cal
Value [K]
259.05
259.04
259.03
259.02
259.01
259.00
257.99
257.98
012711 110203
030722 110203
044734 110203
062746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

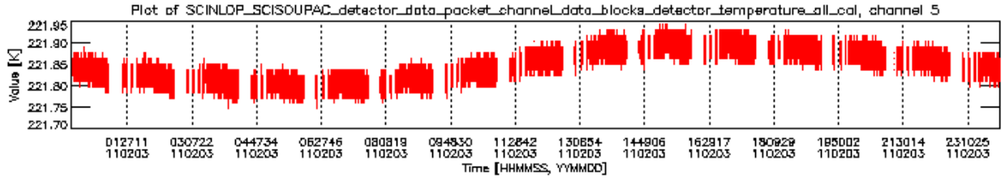

Plot of SCINLOP_SCISOUPAC_prnd_data_packet_temp_hk_cal
Value [K]
254.05
254.00
253.95
253.90
253.85
253.80
253.75
253.70
012711 110203
030722 110203
044734 110203
062746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

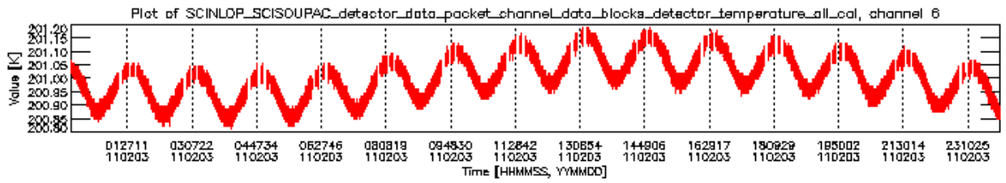

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
207.00
206.95
206.90
206.85
206.80
206.75
206.70
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

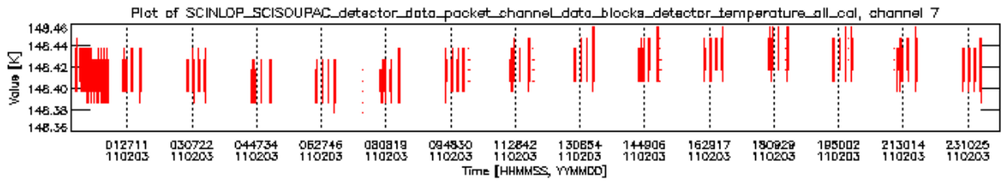

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
206.45
206.40
206.35
206.30
206.25
206.20
206.15
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

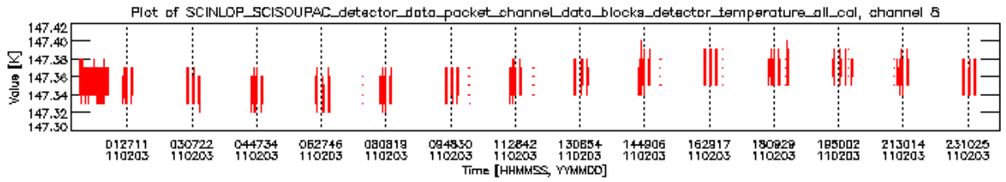

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
225.20
225.15
225.10
225.05
225.00
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

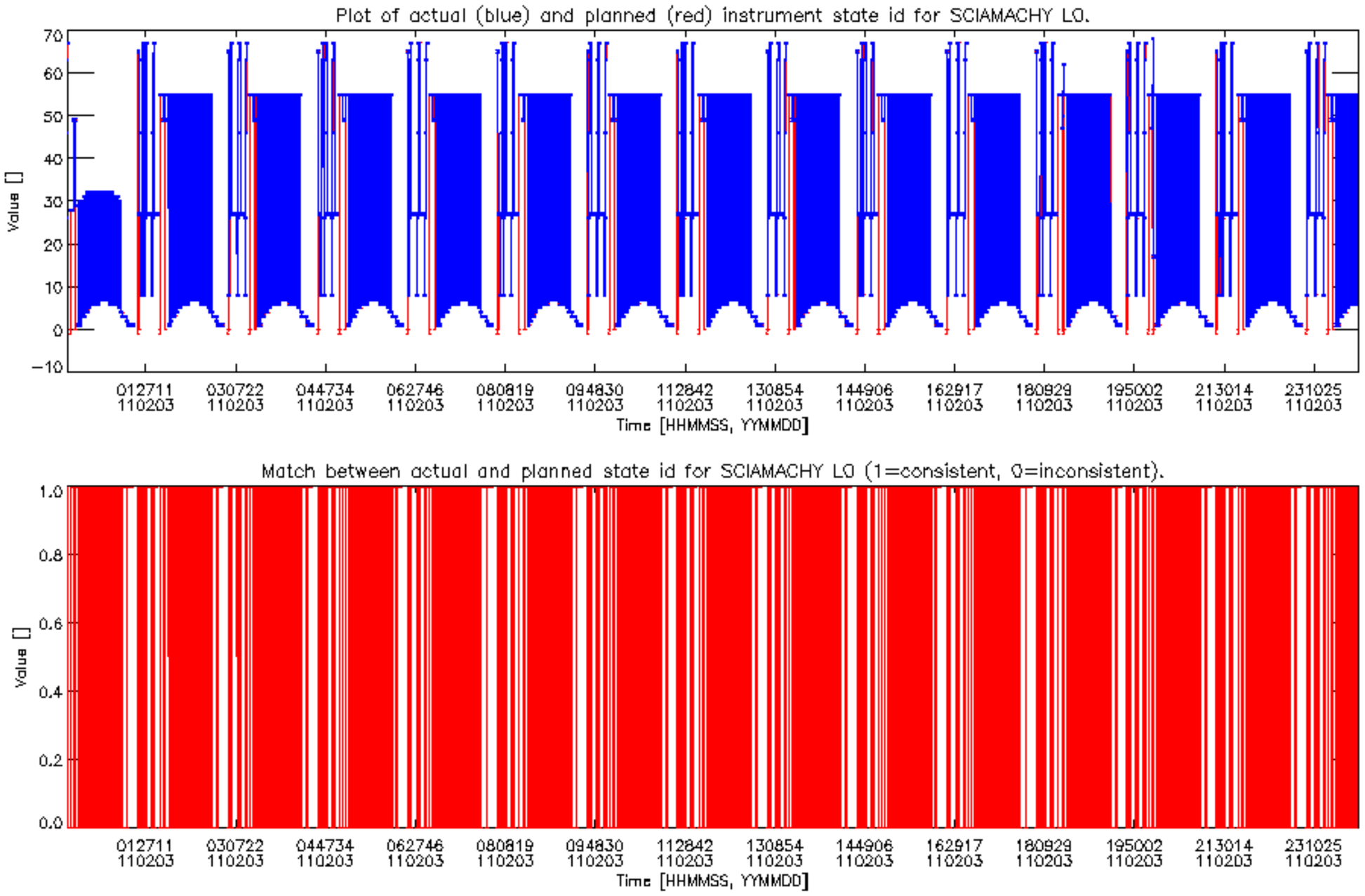

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
223.70
223.65
223.60
223.55
223.50
223.45
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
221.95
221.90
221.85
221.80
221.75
221.70
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

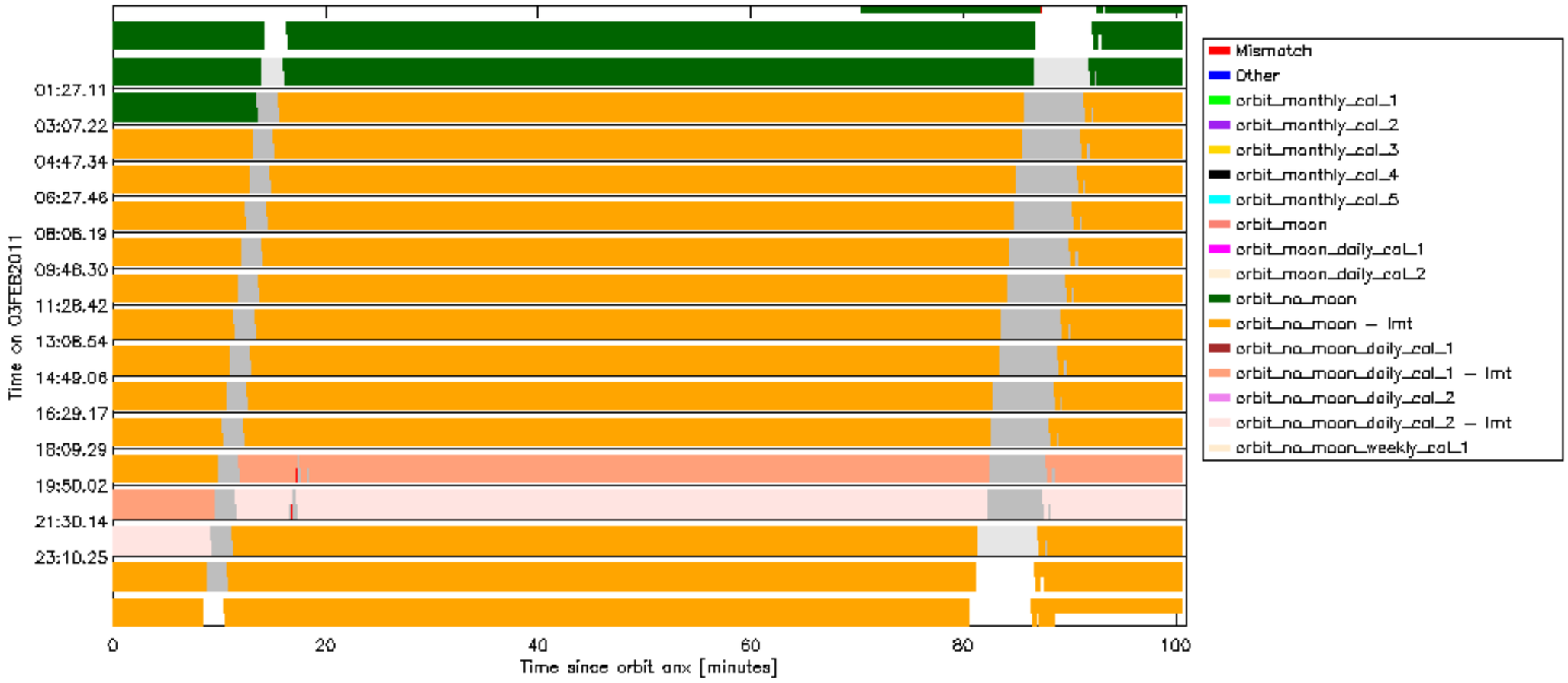

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
201.20
201.15
201.10
201.05
201.00
200.95
200.90
200.85
200.80
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

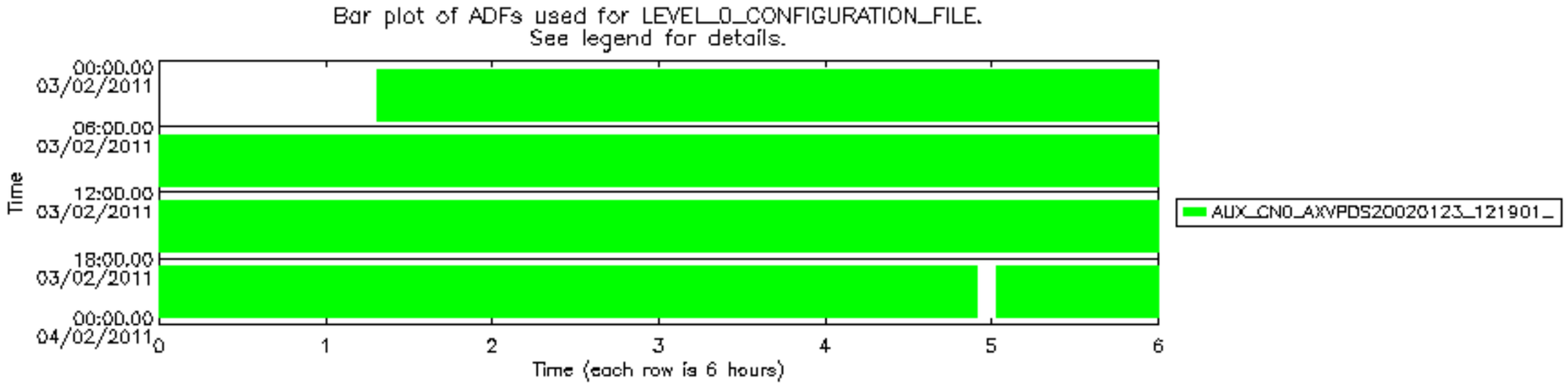

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
148.46
148.44
148.42
148.40
148.38
148.36
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
Time [HHMMSS, YYMMDD]

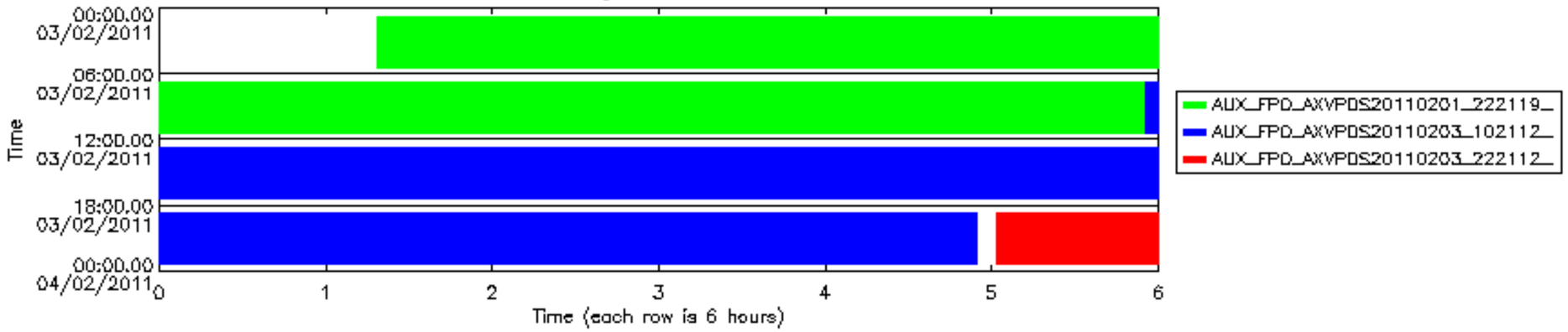

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
147.42
147.40
147.38
147.36
147.34
147.32
147.30
D12711 110203
030722 110203
044734 110203
052746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
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
012711 110203
030722 110203
044734 110203
062746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
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
012711 110203
030722 110203
044734 110203
062746 110203
080819 110203
094830 110203
112842 110203
130854 110203
144906 110203
162917 110203
180929 110203
195002 110203
213014 110203
231025 110203
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 03FEB2011.
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
03/02/2011
06:00.00
03/02/2011
12:00.00
03/02/2011
18:00.00
03/02/2011
00:00.00
04/02/2011
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
03/02/2011
06:00.00
03/02/2011
12:00.00
03/02/2011
18:00.00
03/02/2011
00:00.00
04/02/2011
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_FPD_AXVPDS20110201_222119_
AUX_FPD_AXVPDS20110203_102112_
AUX_FPD_AXVPDS20110203_222112_