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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	16NOV2011 03:12:04
Data source version	KSPT_L0/4504-N
Processing scope for products	09NOV2011 00:00:00 to 10NOV2011 00:00:00
Start time of first product within scope	09NOV2011 00:51:45
Stop time of last product within scope	09NOV2011 21:21:34
Total number of Level 0 products	13
Number of Level 0 products with errors	0

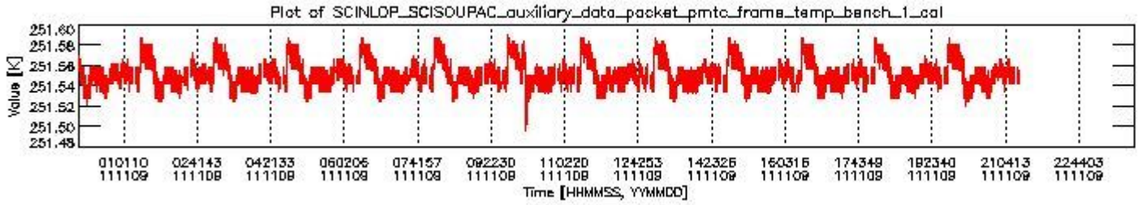
0.1.2 Summary per product

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

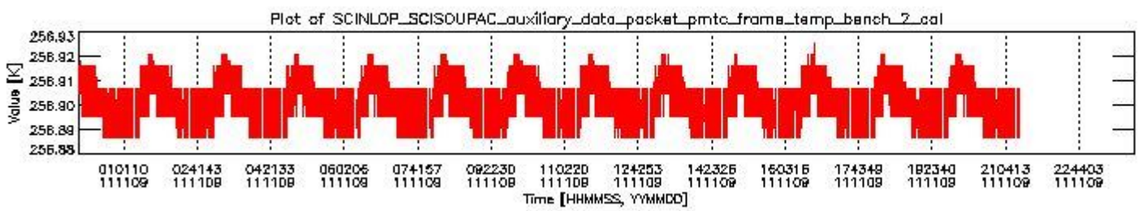
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDE20111109_005145_000056083108_00246_50691_4226.N1	09NOV2011 00:51:45	09NOV2011 02:25:13	0	0	0	0	0
1	SCI_NL__0PNPDE20111109_022405_000046423108_00247_50692_4227.N1	09NOV2011 02:24:05	09NOV2011 03:41:27	0	0	0	0	0
2	SCI_NL__0PNPDE20111109_034018_000061373108_00248_50693_4228.N1	09NOV2011 03:40:18	09NOV2011 05:22:35	0	0	0	0	0
3	SCI_NL__0PNPDE20111109_052235_000059603108_00249_50694_4229.N1	09NOV2011 05:22:35	09NOV2011 07:01:56	0	0	0	0	0
4	SCI_NL__0PNPDK20111109_070156_000041053108_00250_50695_6341.N1	09NOV2011 07:01:56	09NOV2011 08:10:20	0	0	0	0	0
5	SCI_NL__0PNPDK20111109_080926_000061373108_00251_50696_6342.N1	09NOV2011 08:09:26	09NOV2011 09:51:43	0	0	0	0	0
6	SCI_NL__0PNPDK20111109_095034_000058923108_00252_50697_6343.N1	09NOV2011 09:50:34	09NOV2011 11:28:46	0	0	0	0	0
7	SCI_NL__0PNPDK20111109_112658_000061913108_00253_50698_6344.N1	09NOV2011 11:26:58	09NOV2011 13:10:09	0	0	0	0	0
8	SCI_NL__0PNPDK20111109_130806_000059063108_00254_50699_6345.N1	09NOV2011 13:08:06	09NOV2011 14:46:32	0	0	0	0	0
9	SCI_NL__0PNPDK20111109_144538_000058763108_00255_50700_6346.N1	09NOV2011 14:45:38	09NOV2011 16:23:34	0	0	0	0	0
10	SCI_NL__0PNPDK20111109_162334_000059053108_00256_50701_6347.N1	09NOV2011 16:23:34	09NOV2011 18:01:59	0	0	0	0	0
11	SCI_NL__0PNPDK20111109_180105_000056823108_00257_50702_6348.N1	09NOV2011 18:01:05	09NOV2011 19:35:47	0	0	0	0	0
12	SCI_NL__0PNPDK20111109_194025_000060683108_00258_50703_6349.N1	09NOV2011 19:40:25	09NOV2011 21:21:34	0	0	0	0	0

0.2 Product Quality Indicators

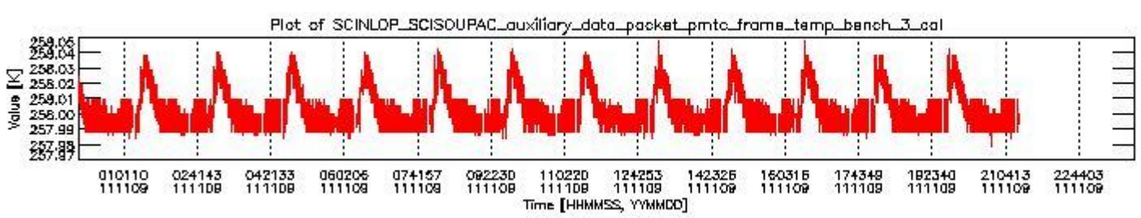
This section shows information about product quality, currently temperatures.



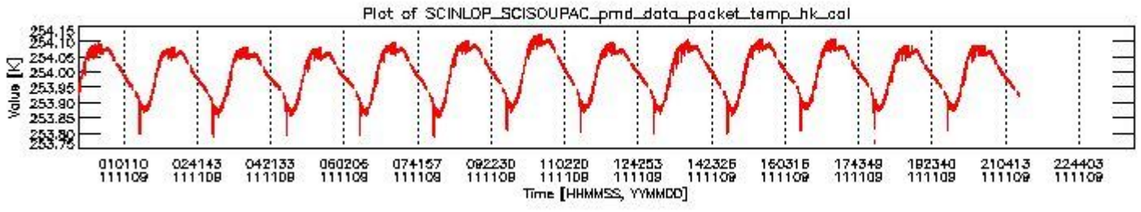
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111109_0.PNG



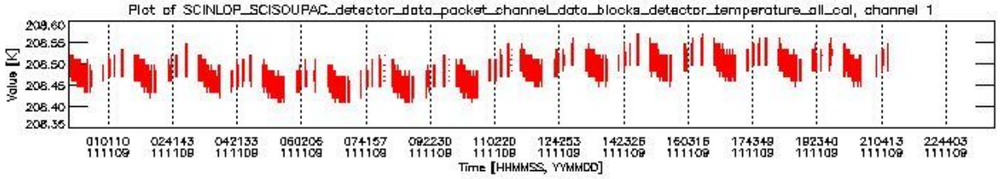
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111109_1.PNG

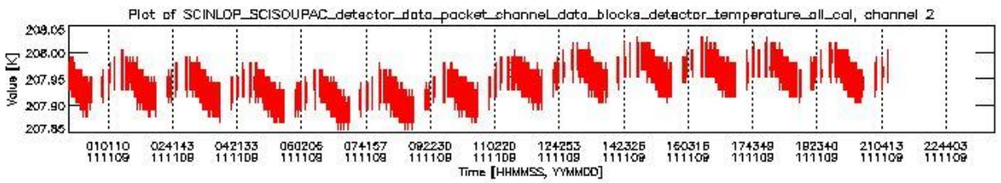


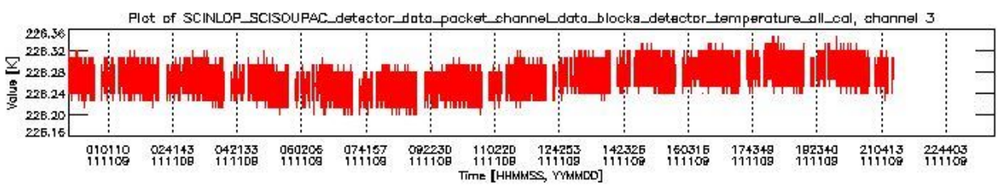
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111109_2.PNG

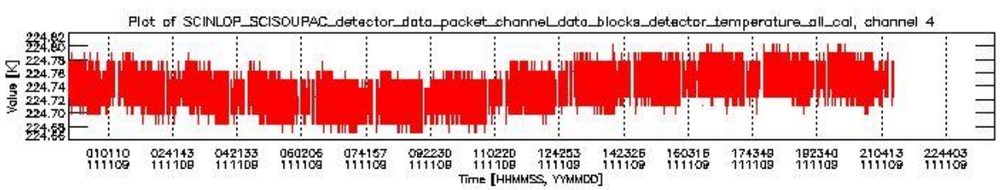


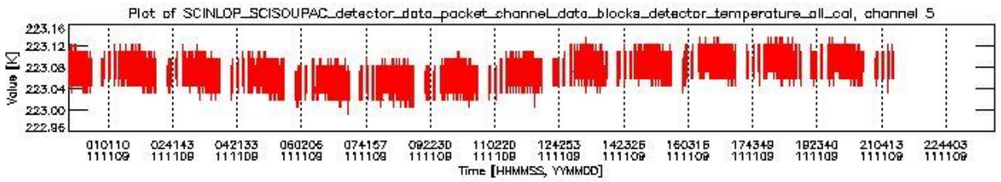
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111109_3.PNG

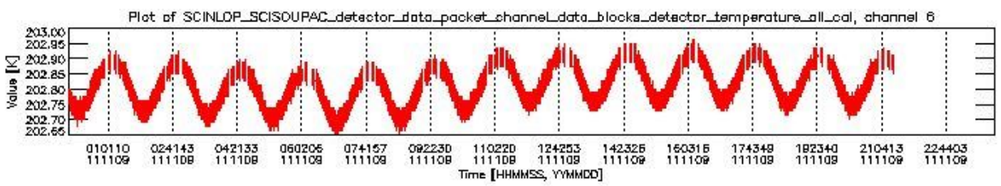

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
208.60
208.55
208.50
208.45
208.40
208.35
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

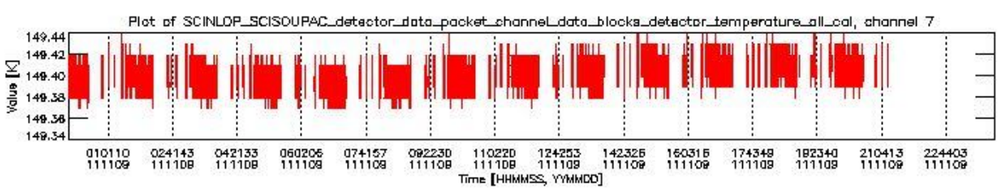

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
208.05
208.00
207.95
207.90
207.85
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

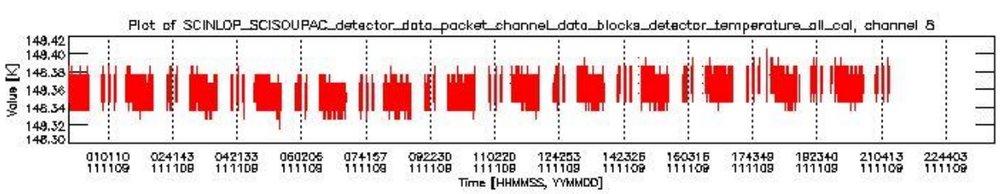

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
228.36
228.32
228.28
228.24
228.20
228.16
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
224.82
224.80
224.78
224.76
224.74
224.72
224.70
224.68
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
223.16
223.12
223.08
223.04
223.00
222.96
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
203.00
202.95
202.90
202.85
202.80
202.75
202.70
202.65
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
149.44
149.42
149.40
149.38
149.36
149.34
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

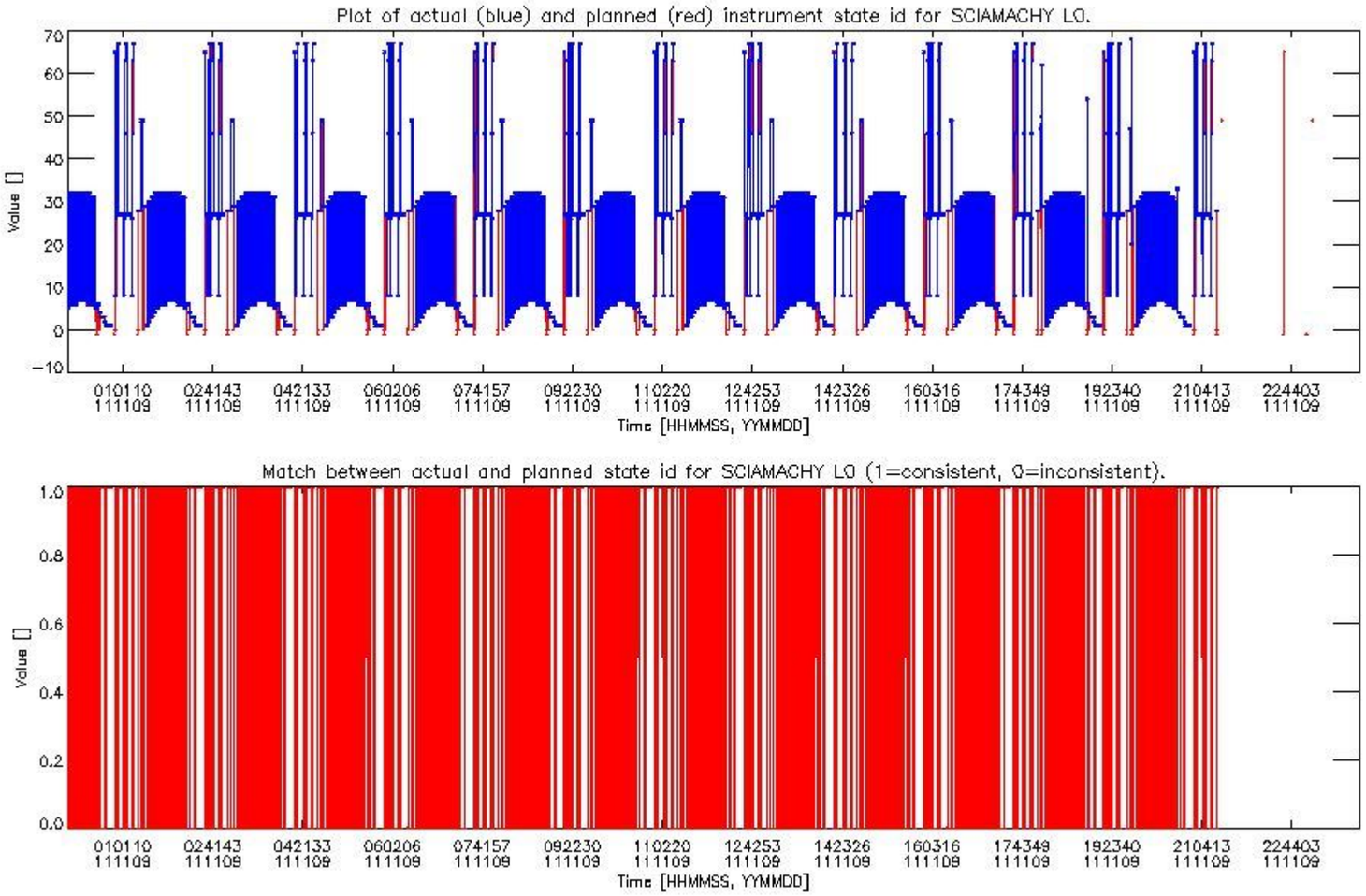

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
148.42
148.40
148.38
148.36
148.34
148.32
148.30
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
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: 38426

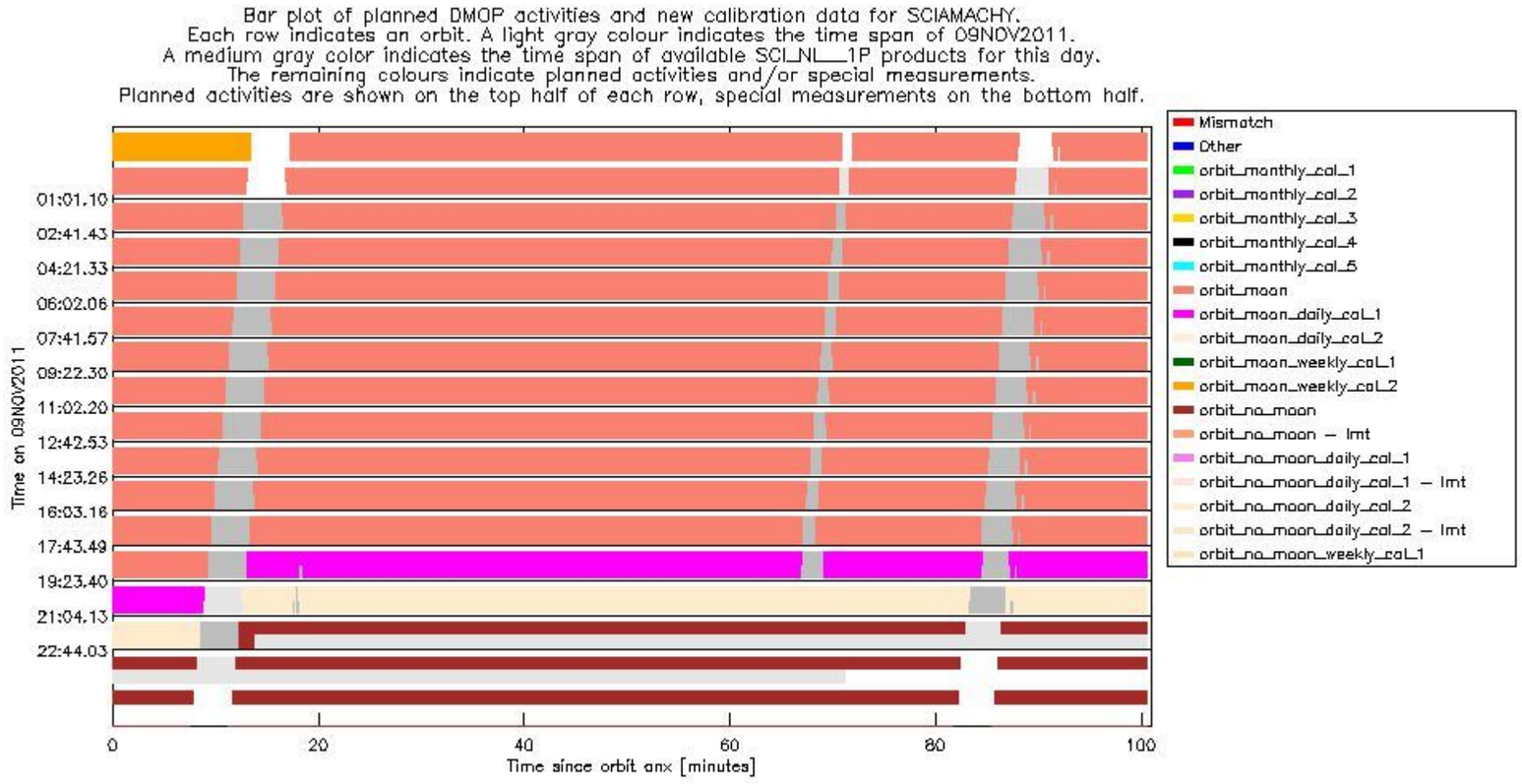
#	Actual time	Actual value	Planned time	Planned value
0	09NOV2011 00:00:31.427792	32	09NOV2011 00:00:31.427792	5
1	09NOV2011 00:00:32.052792	32	09NOV2011 00:00:32.052792	5
2	09NOV2011 00:00:32.427792	32	09NOV2011 00:00:32.427792	5
3	09NOV2011 00:00:32.802792	32	09NOV2011 00:00:32.802792	5
4	09NOV2011 00:00:33.365292	32	09NOV2011 00:00:33.365292	5
5	09NOV2011 00:00:33.740292	32	09NOV2011 00:00:33.740292	5
6	09NOV2011 00:00:34.115292	32	09NOV2011 00:00:34.115292	5
7	09NOV2011 00:00:34.490292	32	09NOV2011 00:00:34.490292	5
8	09NOV2011 00:00:35.052792	32	09NOV2011 00:00:35.052792	5
9	09NOV2011 00:00:35.427792	32	09NOV2011 00:00:35.427792	5
10	09NOV2011 00:00:35.802792	32	09NOV2011 00:00:35.802792	5
11	09NOV2011 00:00:36.177792	32	09NOV2011 00:00:36.177792	5
12	09NOV2011 00:00:36.427792	32	09NOV2011 00:00:36.427792	5
13	09NOV2011 00:00:36.740292	32	09NOV2011 00:00:36.740292	5
14	09NOV2011 00:00:37.115292	32	09NOV2011 00:00:37.115292	5
15	09NOV2011 00:00:37.490292	32	09NOV2011 00:00:37.490292	5
16	09NOV2011 00:00:37.865292	32	09NOV2011 00:00:37.865292	5
17	09NOV2011 00:00:38.427792	32	09NOV2011 00:00:38.427792	5
18	09NOV2011 00:00:38.802792	32	09NOV2011 00:00:38.802792	5
19	09NOV2011 00:00:39.177792	32	09NOV2011 00:00:39.177792	5
	...	...	...	...



sciamachy_daily_report_level0_KSPT_L0_4504_N_20111109_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.



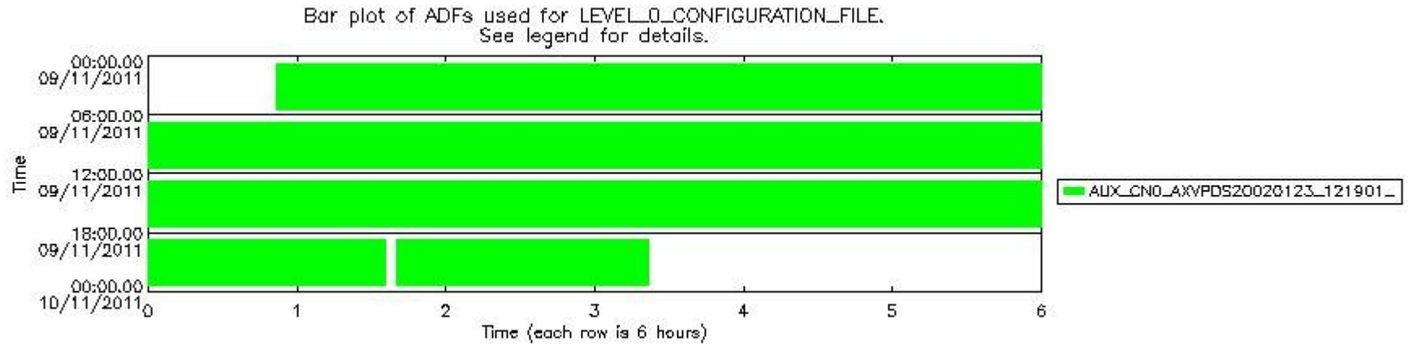
0.4 ADF monitoring

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

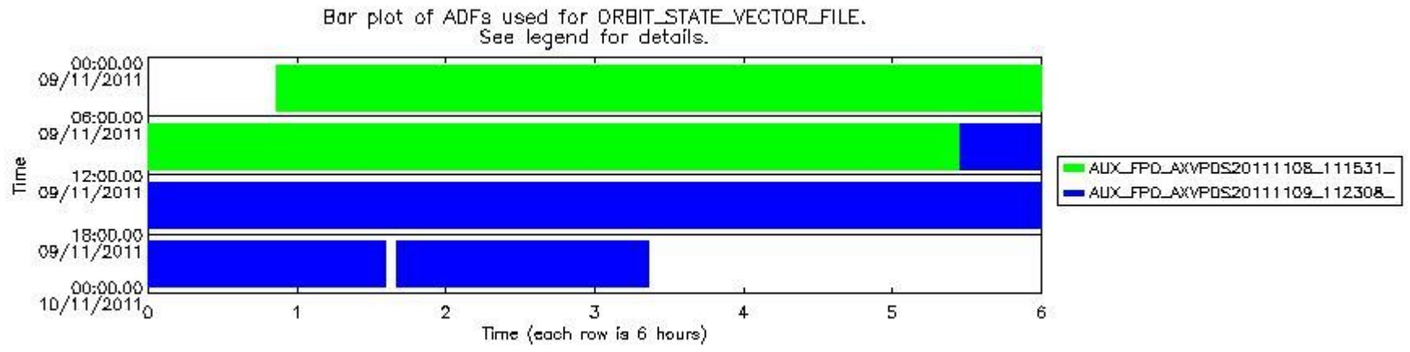
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

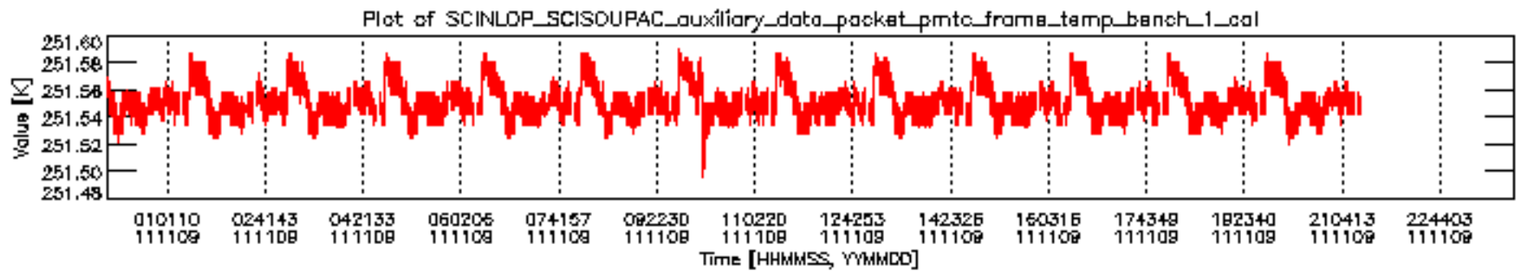
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	**AUX_FPO_AXVPDS20111108_111531_20111107_185703_20111117_211043**
2	**AUX_FPO_AXVPDS20111109_112308_20111108_182018_20111118_203400**

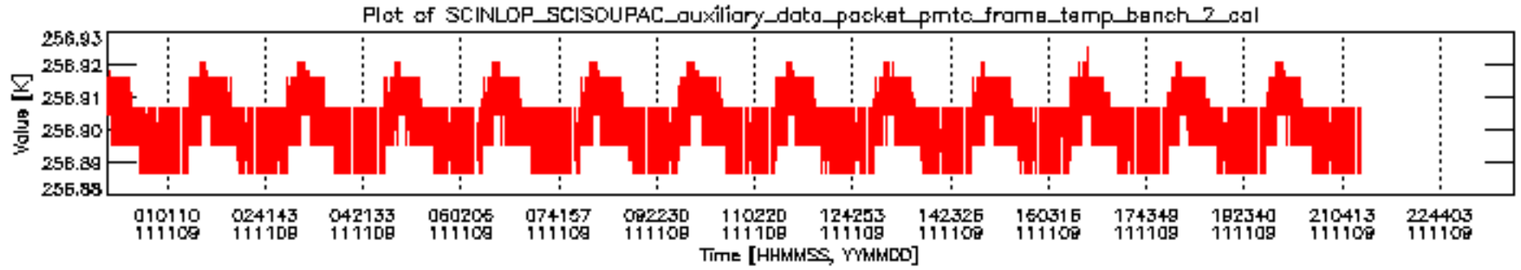


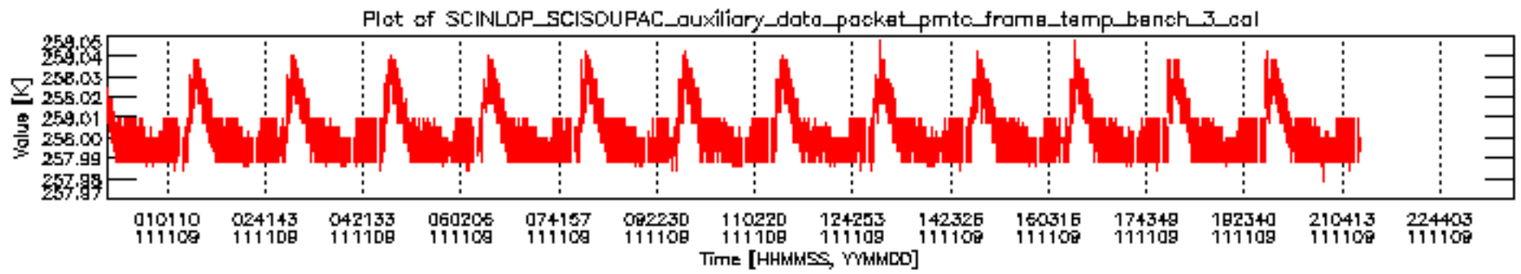
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111109_7.PNG

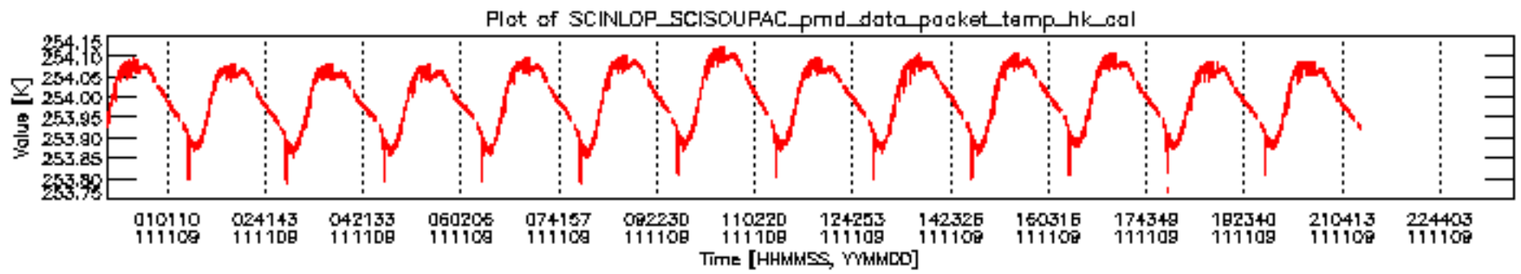


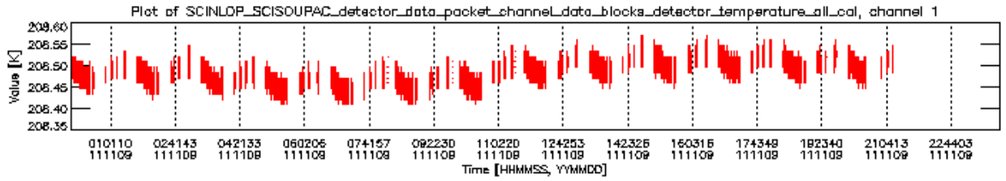
sciamachy_daily_report_level0_KSPT_L0_4504_N_20111109_8.PNG

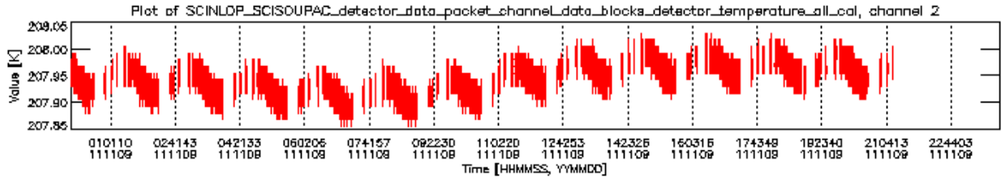

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_1_cal
Value [K]
251.60
251.58
251.56
251.54
251.52
251.50
251.48
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160316 111109
174349 111109
192340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

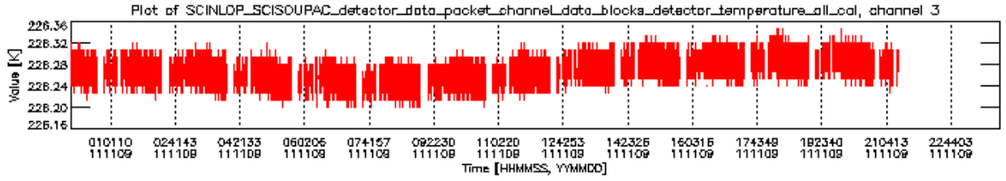

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_2_cal
256.93
256.92
256.91
256.90
256.89
256.88
Value [K]
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160316 111109
174349 111109
192340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

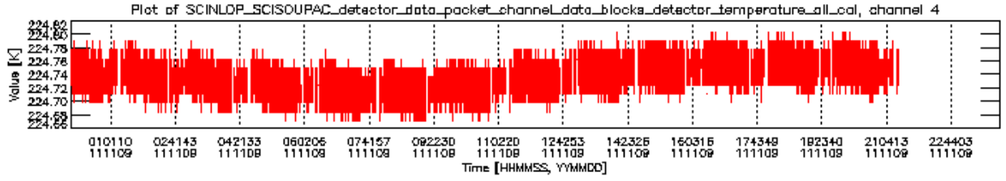

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_3_cal
Value [K]
259.05
259.04
258.03
258.02
259.01
258.00
257.99
257.98
257.97
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160316 111109
174349 111109
192340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

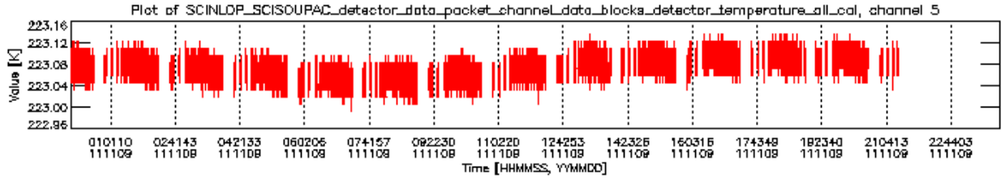

Plot of SCINLOP_SCISOUPAC_pmd_data_packet_temp_hk_cal
Value [K]
254.15
254.10
254.05
254.00
253.95
253.90
253.85
253.80
253.75
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160316 111109
174349 111109
192340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

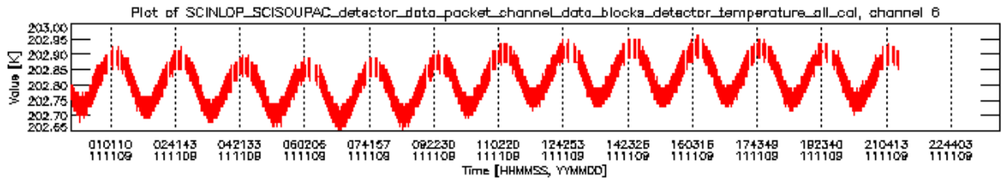

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
209.60
208.55
208.50
208.45
208.40
208.35
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142325 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

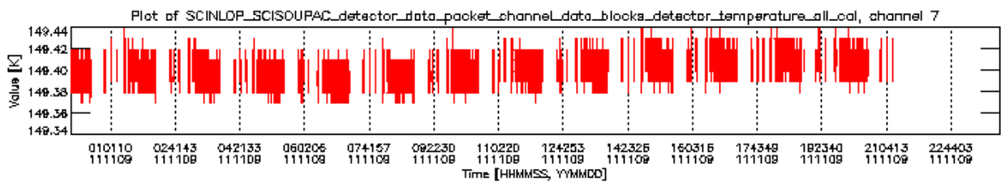

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
208.05
208.00
207.95
207.90
207.85
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142325 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

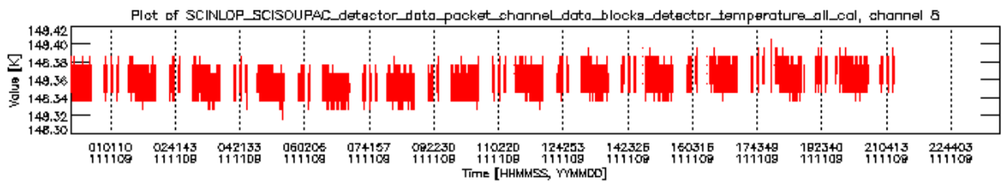

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
226.36
226.32
226.28
226.24
226.20
225.16
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142325 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

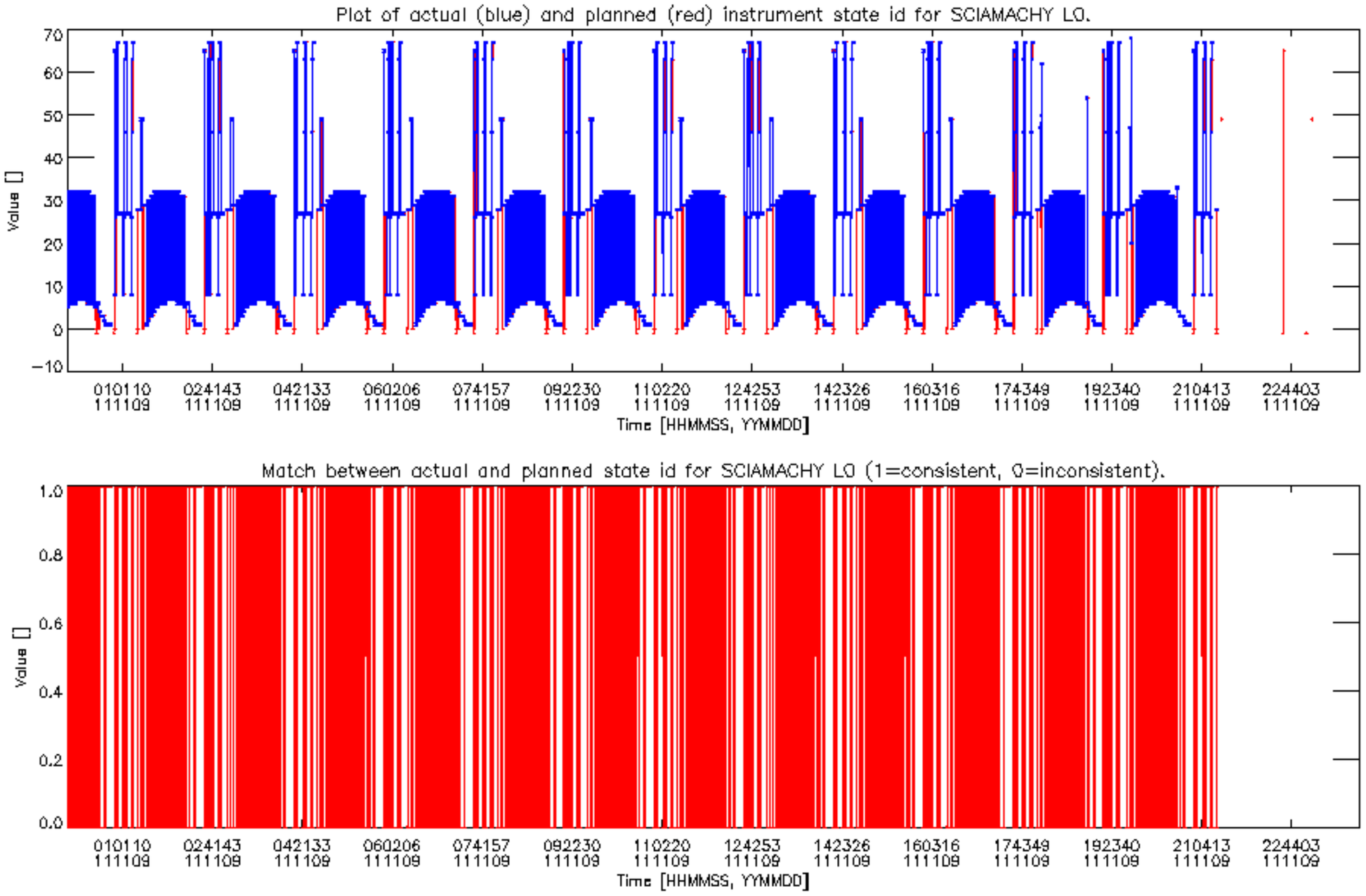

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
224.78
224.76
224.74
224.72
224.70
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142325 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
223.16
223.12
223.08
223.04
223.00
222.96
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142325 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

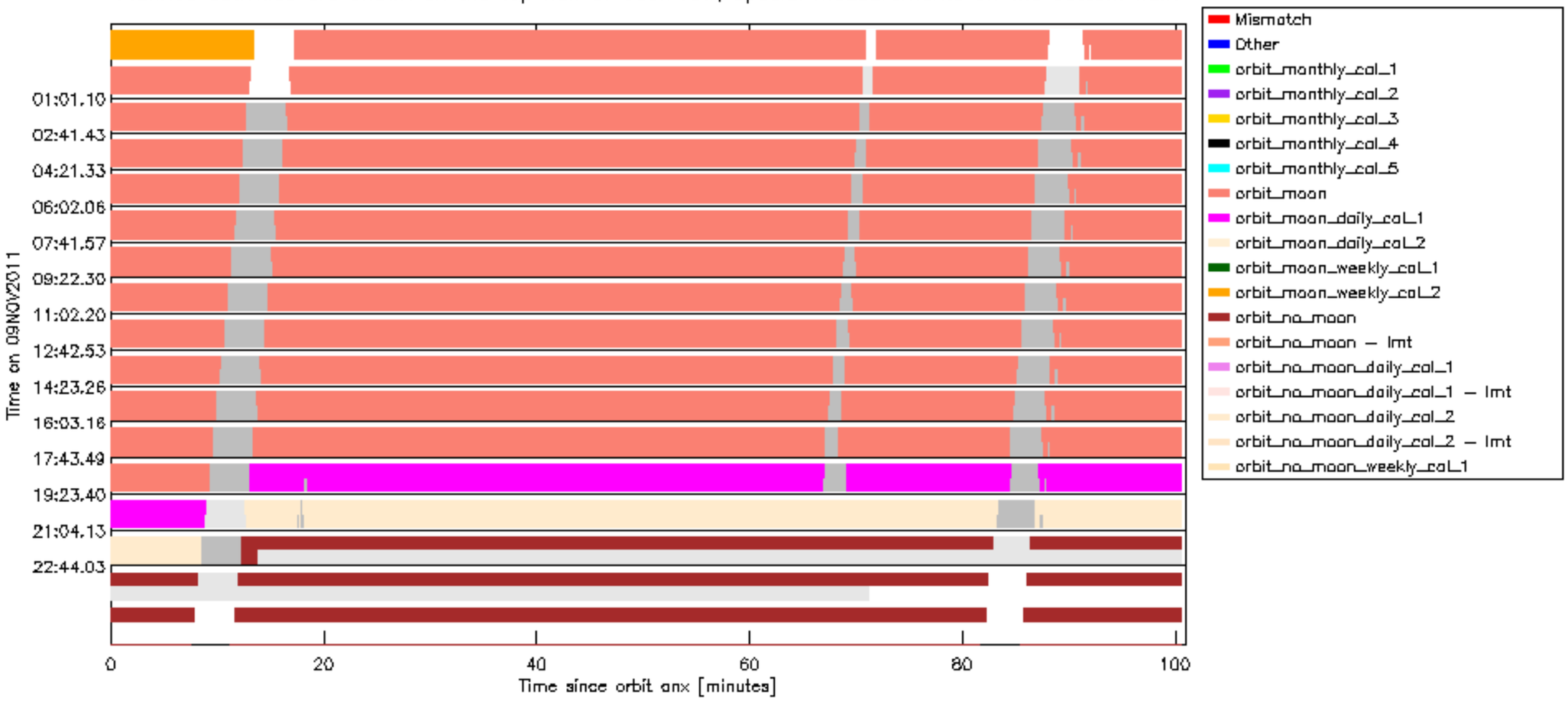

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
203.00
202.95
202.90
202.85
202.80
202.75
202.70
202.65
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142325 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

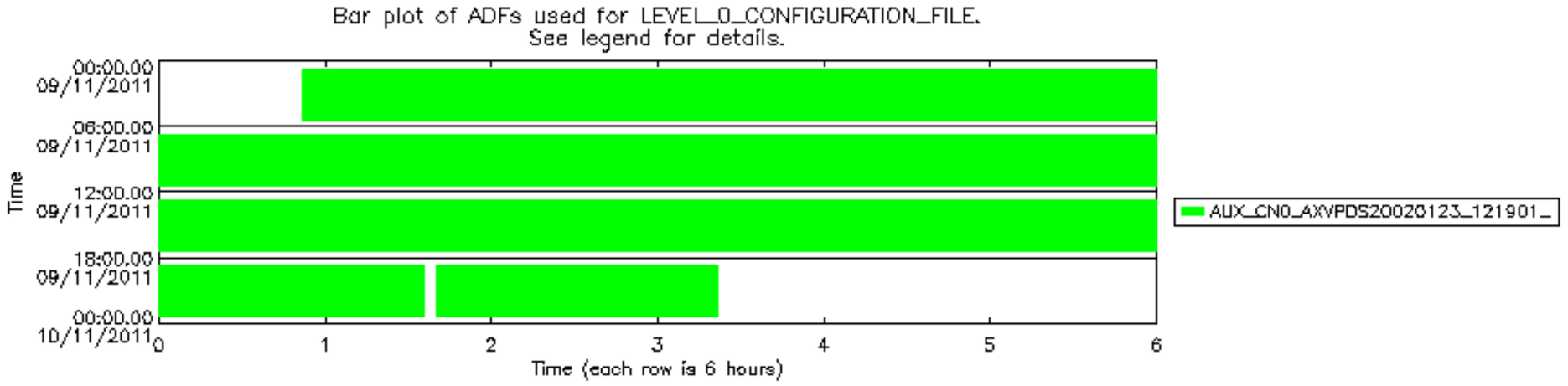

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
149.44
149.42
149.40
149.38
149.36
149.34
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142325 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
Time [HHMMSS, YYMMDD]

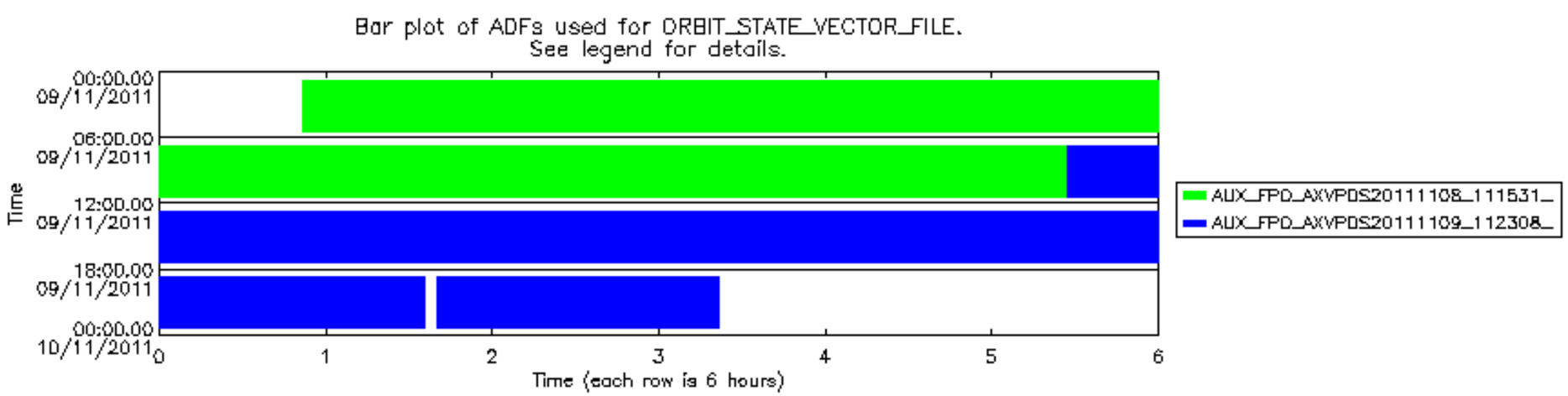

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
148.42
148.40
148.38
148.36
148.34
148.32
148.30
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142325 111109
160315 111109
174349 111109
182340 111109
210413 111109
224403 111109
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
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160316 111109
174349 111109
192340 111109
210413 111109
224403 111109
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
010110 111109
024143 111109
042133 111109
060206 111109
074157 111109
092230 111109
110220 111109
124253 111109
142326 111109
160316 111109
174349 111109
192340 111109
210413 111109
224403 111109
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 09NOV2011.
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.
Time
00:00.00
09/11/2011
06:00.00
09/11/2011
12:00.00
09/11/2011
18:00.00
09/11/2011
00:00.00
10/11/2011
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.
Time
00:00.00
09/11/2011
06:00.00
09/11/2011
12:00.00
09/11/2011
18:00.00
09/11/2011
00:00.00
10/11/2011
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_FPD_AXVPDS20111108_111531_
AUX_FPD_AXVPDS20111109_112308_