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	v1.3 20060731
Time of report generation	28APR2008 03:36:21
Data source version	KSPT_L0/4303-N
Processing scope for products	24APR2008 00:00:00 to 25APR2008 00:00:00
Start time of first product within scope	23APR2008 22:22:10
Stop time of last product within scope	25APR2008 01:13:50
Total number of level 0 products	12
Number of level 0 products with errors	0

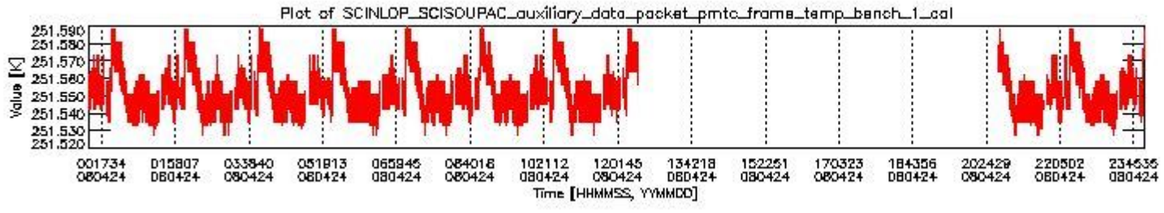
0.1.2 Summary per product

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

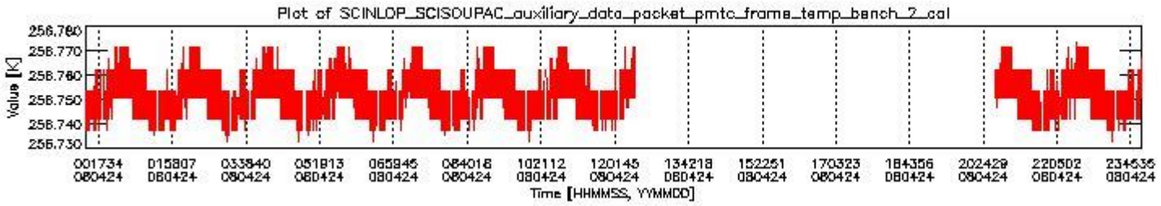
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDE20080423_222210_000062452068_00029_32147_6544.N1	23APR2008 22:22:10	24APR2008 00:06:15	0	0	0	0	0
1	SCI_NL__0PNPDE20080424_000458_000059912068_00030_32148_6545.N1	24APR2008 00:04:58	24APR2008 01:44:49	0	0	0	0	0
2	SCI_NL__0PNPDE20080424_014321_000045152068_00031_32149_6546.N1	24APR2008 01:43:21	24APR2008 02:58:37	0	0	0	0	0
3	SCI_NL__0PNPDE20080424_025728_000060912068_00032_32150_6547.N1	24APR2008 02:57:28	24APR2008 04:39:00	0	0	0	0	0
4	SCI_NL__0PNPDE20080424_043900_000060482068_00033_32151_6548.N1	24APR2008 04:39:00	24APR2008 06:19:48	0	0	0	0	0
5	SCI_NL__0PNPDK20080424_061948_000041012068_00034_32152_8030.N1	24APR2008 06:19:48	24APR2008 07:28:09	0	0	0	0	0
6	SCI_NL__0PNPDK20080424_072809_000061042068_00035_32153_8031.N1	24APR2008 07:28:09	24APR2008 09:09:53	0	0	0	0	0
7	SCI_NL__0PNPDK20080424_090844_000060362068_00036_32154_8032.N1	24APR2008 09:08:44	24APR2008 10:49:20	0	0	0	0	0
8	SCI_NL__0PNPDK20080424_104920_000059802068_00037_32155_8033.N1	24APR2008 10:49:20	24APR2008 12:28:59	0	0	0	0	0
9	SCI_NL__0PNPDE20080424_204123_000041892068_00043_32161_6549.N1	24APR2008 20:41:23	24APR2008 21:51:11	0	0	0	0	0
10	SCI_NL__0PNPDE20080424_215027_000062922068_00043_32161_6550.N1	24APR2008 21:50:27	24APR2008 23:35:19	0	0	0	0	0
11	SCI_NL__0PNPDE20080424_233358_000059922068_00044_32162_6551.N1	24APR2008 23:33:58	25APR2008 01:13:50	0	0	0	0	0

0.2 Product Quality Indicators

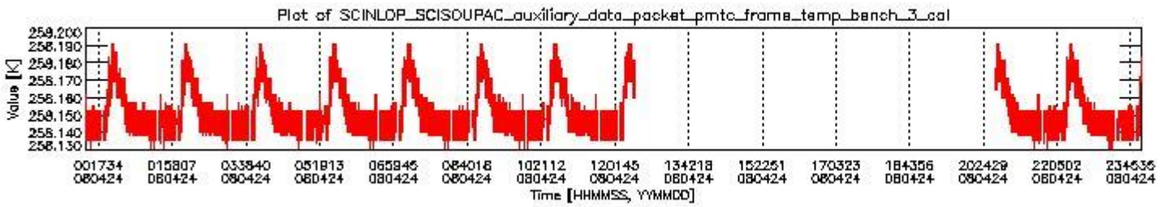
This section shows information about product quality, currently temperatures.



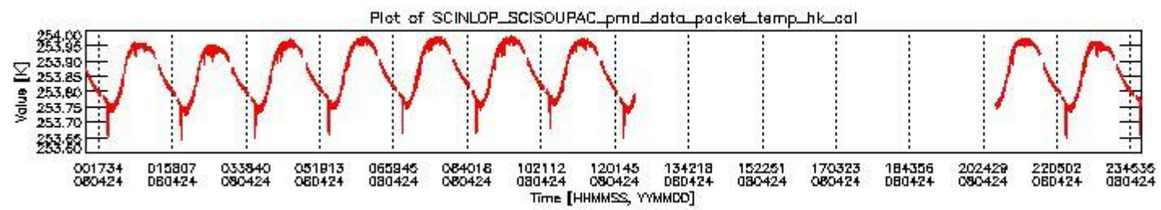
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080424_0.PNG



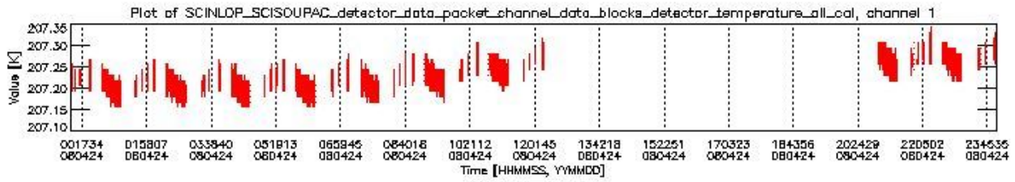
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080424_1.PNG

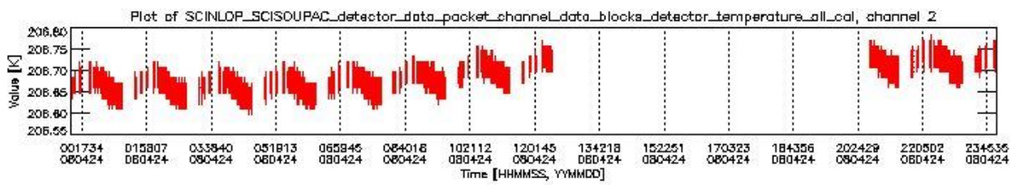


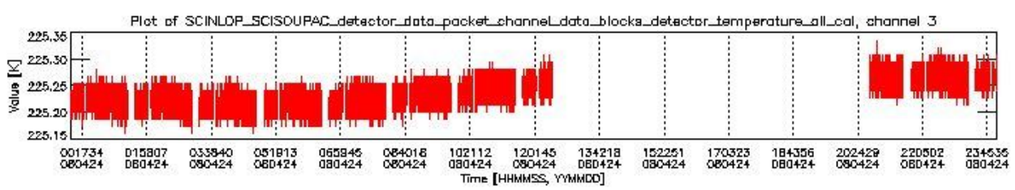
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080424_2.PNG

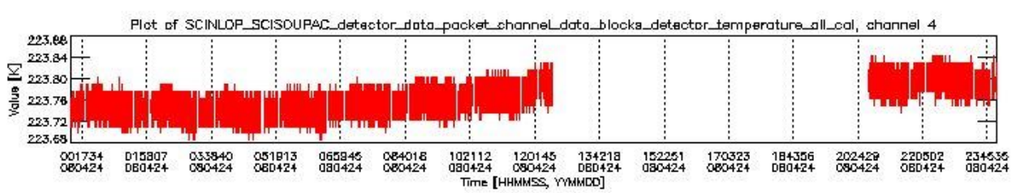


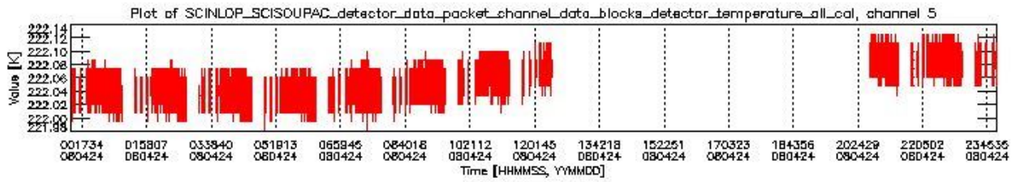
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080424_3.PNG

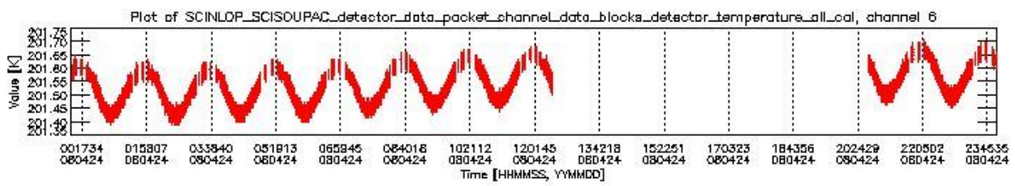

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
207.35
207.30
207.25
207.20
207.15
207.10
001734 080424
015807 080424
033840 080424
051913 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

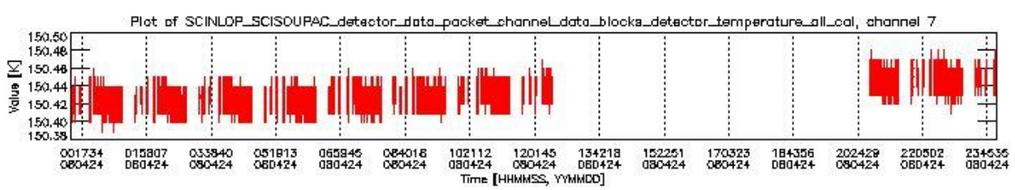

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
206.80
206.75
206.70
206.65
206.60
206.55
001734 080424
015807 080424
033840 080424
051913 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

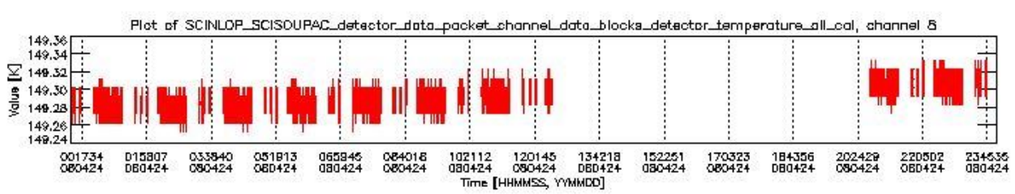

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
225.35
225.30
225.25
225.20
225.15
001734 080424
015807 080424
033840 080424
051913 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
223.88
223.84
223.80
223.76
223.72
223.68
001734 080424
015807 080424
033840 080424
051913 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
222.14
222.12
222.10
222.08
222.06
222.04
222.02
222.00
221.98
001734 080424
015807 080424
033840 080424
051913 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
201.75
201.70
201.65
201.60
201.55
201.50
201.45
201.40
201.35
001734 080424
015807 080424
033840 080424
051913 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
150.50
150.48
150.46
150.44
150.42
150.40
150.38
001734 080424
015807 080424
033840 080424
051913 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

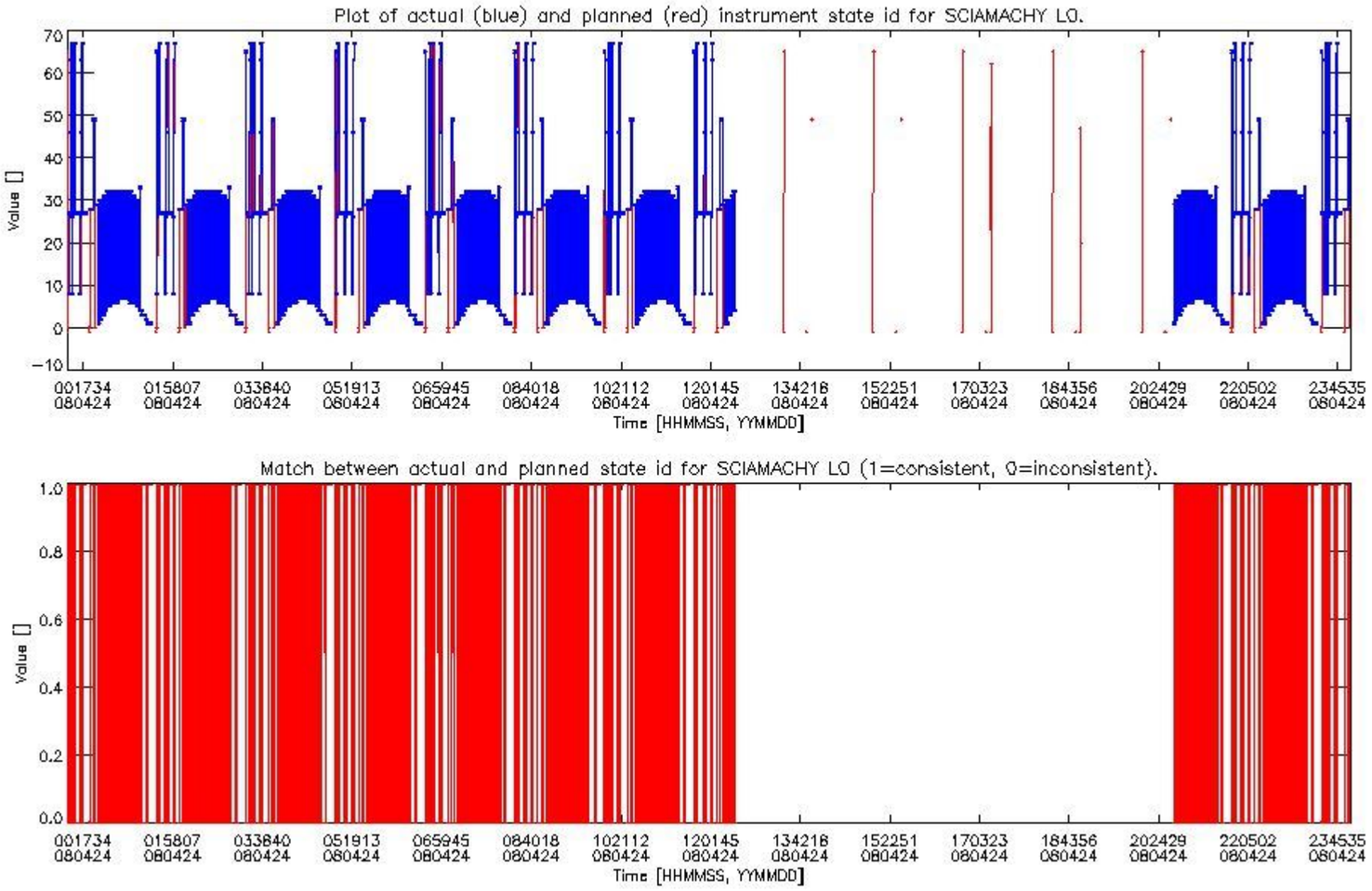

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
149.36
149.34
149.32
149.30
149.28
149.26
149.24
001734 080424
015807 080424
033840 080424
051913 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
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: 32311

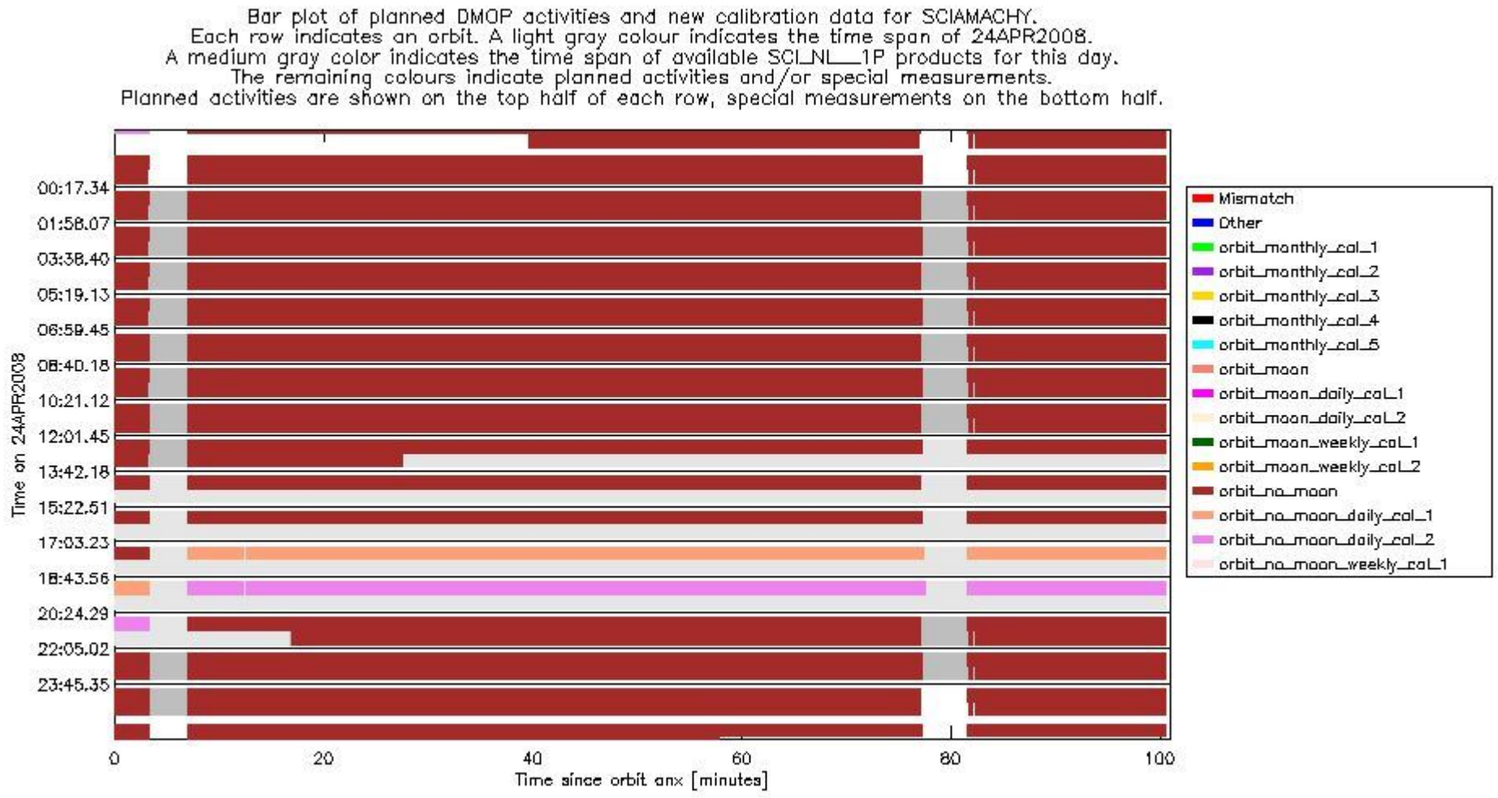
#	Actual time	Actual value	Planned time	Planned value
0	24APR2008 00:01:30.708420	8	24APR2008 00:01:30.708420	27
1	24APR2008 00:01:31.833419	8	24APR2008 00:01:31.833419	27
2	24APR2008 00:01:32.833413	8	24APR2008 00:01:32.833413	27
3	24APR2008 00:01:33.833408	8	24APR2008 00:01:33.833408	27
4	24APR2008 00:01:34.833402	8	24APR2008 00:01:34.833402	27
5	24APR2008 00:01:35.708433	8	24APR2008 00:01:35.708433	27
6	24APR2008 00:01:35.833437	8	24APR2008 00:01:35.833437	27
7	24APR2008 00:01:36.833432	8	24APR2008 00:01:36.833432	27
8	24APR2008 00:01:37.833426	8	24APR2008 00:01:37.833426	27
9	24APR2008 00:01:38.833421	8	24APR2008 00:01:38.833421	27
10	24APR2008 00:01:39.833415	8	24APR2008 00:01:39.833415	27
11	24APR2008 00:01:40.708406	8	24APR2008 00:01:40.708406	27
12	24APR2008 00:01:40.833410	8	24APR2008 00:01:40.833410	27
13	24APR2008 00:02:14.267025	26	24APR2008 00:02:14.267025	8
14	24APR2008 00:02:14.892006	26	24APR2008 00:02:14.892006	8
15	24APR2008 00:02:15.392024	26	24APR2008 00:02:15.392024	8
16	24APR2008 00:02:15.892001	26	24APR2008 00:02:15.892001	8
17	24APR2008 00:02:16.392018	26	24APR2008 00:02:16.392018	8
18	24APR2008 00:02:16.892036	26	24APR2008 00:02:16.892036	8
19	24APR2008 00:02:17.392013	26	24APR2008 00:02:17.392013	8
	...	...	...	...



sciamachy_daily_report_level0_KSPT_L0_4303_N_20080424_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.



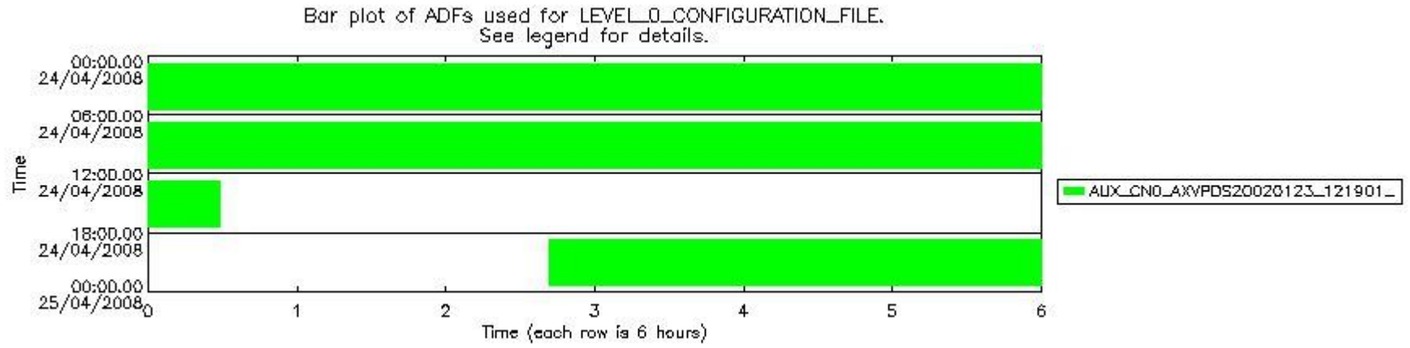
0.4 ADF monitoring

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

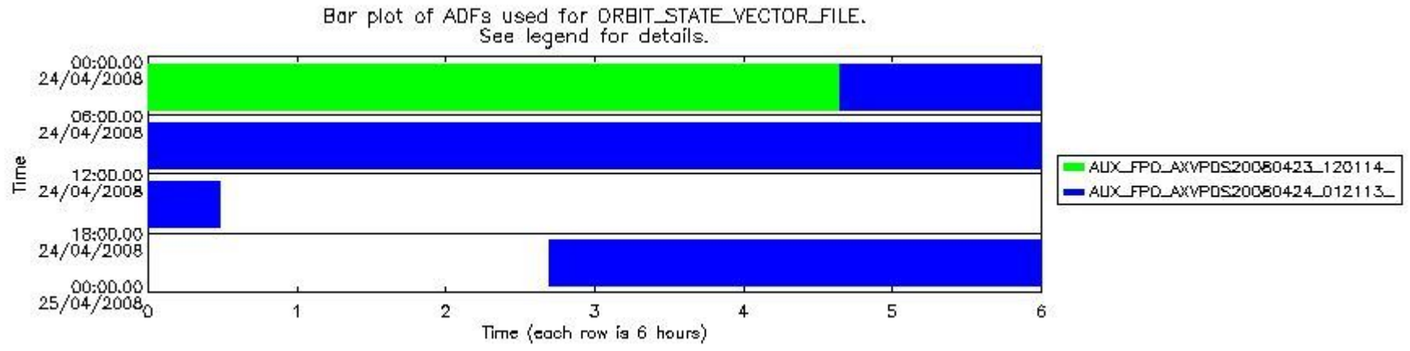
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

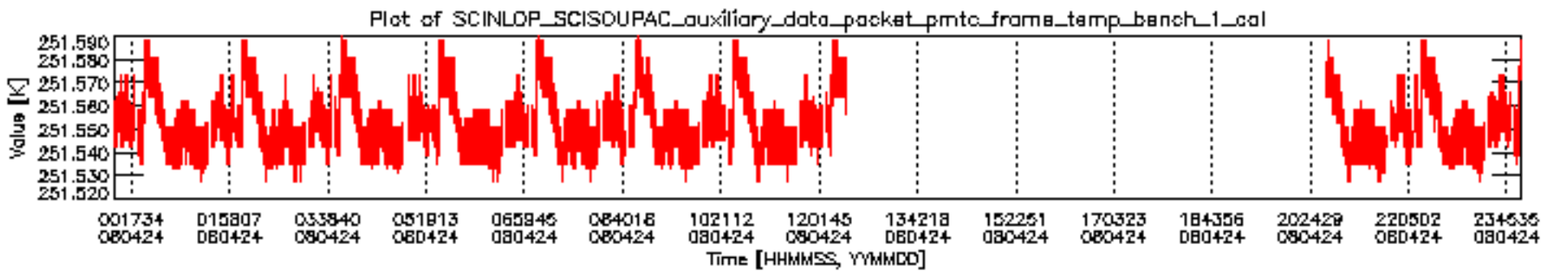
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	**AUX_FPO_AXVPDS20080423_120114_20080423_091202_20080502_225406**
2	**AUX_FPO_AXVPDS20080424_012113_20080423_191538_20080503_204153**

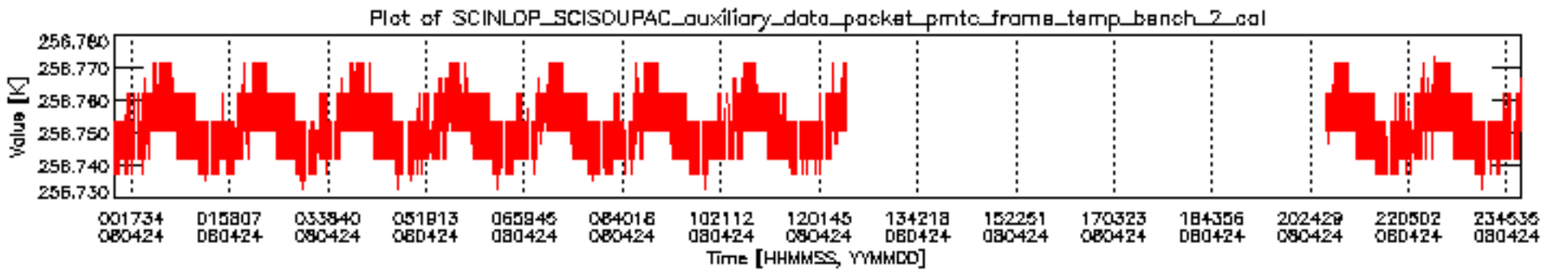


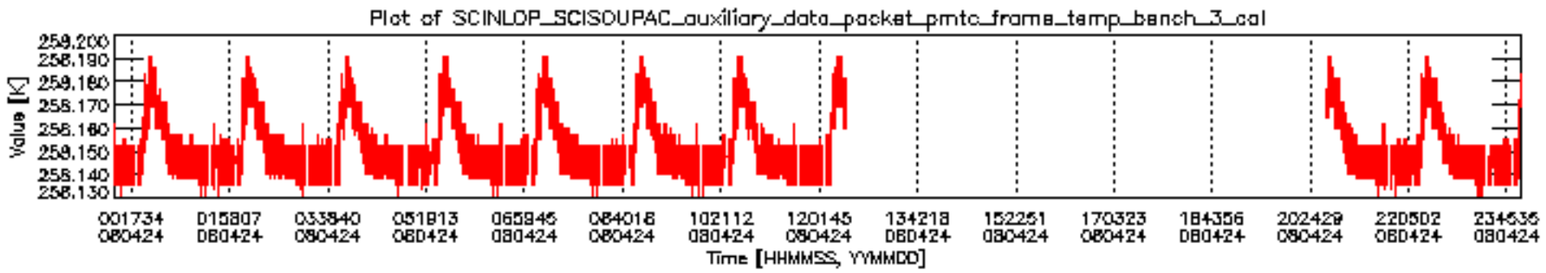
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080424_7.PNG

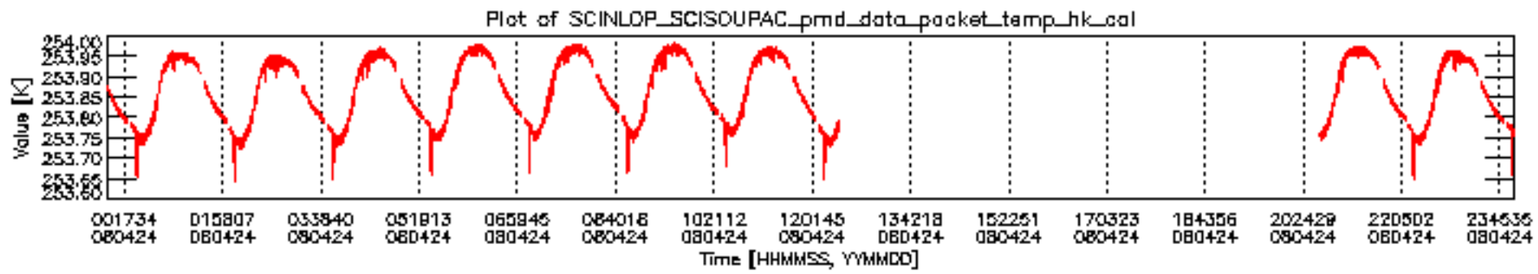


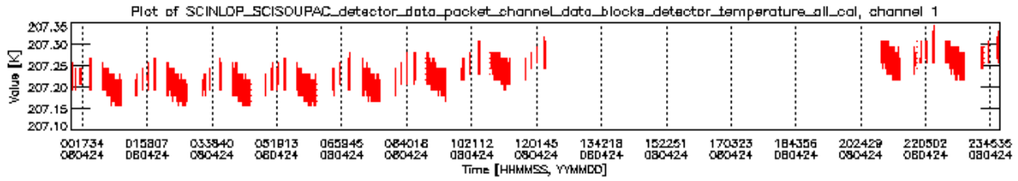
sciamachy_daily_report_level0_KSPT_L0_4303_N_20080424_8.PNG

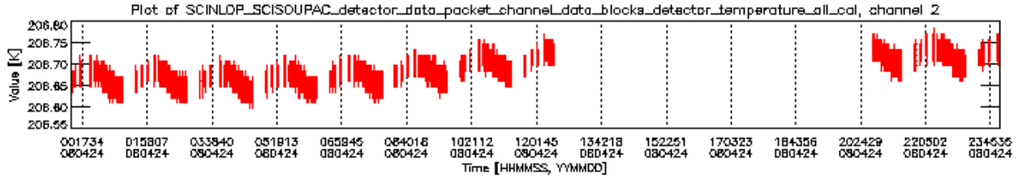

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_1_cal
Value [K]
251.590
251.580
251.570
251.560
251.550
251.540
251.530
251.520
001734 080424
015807 080424
033840 080424
051813 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234536 080424
Time [HHMMSS, YYMMDD]

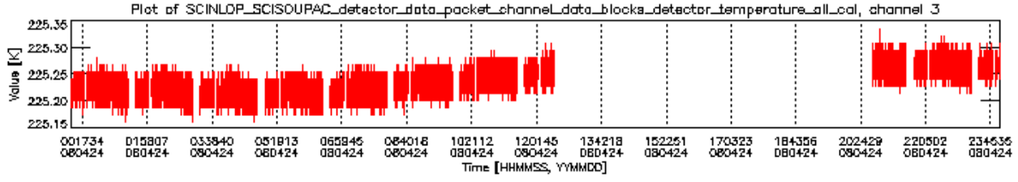

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_2_cal
256.780
256.770
256.760
256.750
256.740
256.730
Value [K]
001734 080424
015807 080424
033840 080424
051913 080424
065945 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

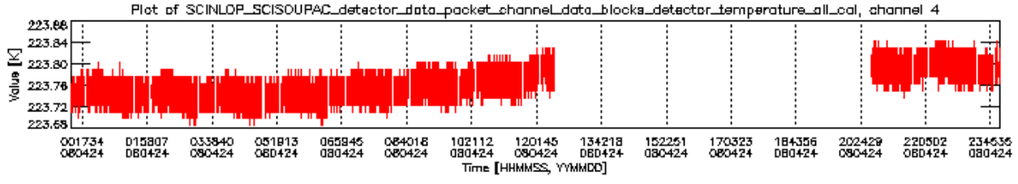

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_3_cal
259.200
258.190
259.180
258.170
258.160
258.150
258.140
258.130
Value [K]
001734 080424
015807 080424
033840 080424
051913 080424
065945 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

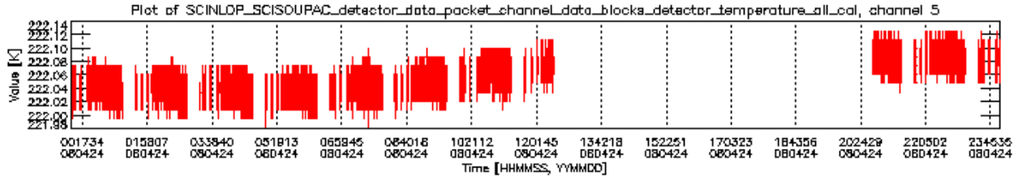

Plot of SCINLOP_SCISOUPAC_pmd_data_packet_temp_hk_cal
Value [K]
254.00
253.95
253.90
253.85
253.80
253.75
253.70
253.65
253.60
001734 080424
015807 080424
033840 080424
051913 080424
065945 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

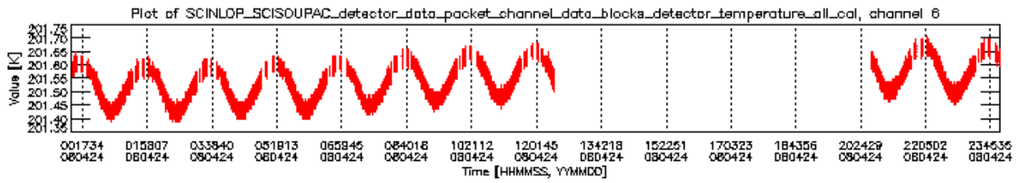

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
207.35
207.30
207.25
207.20
207.15
207.10
001734 080424
015807 080424
033840 080424
051813 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

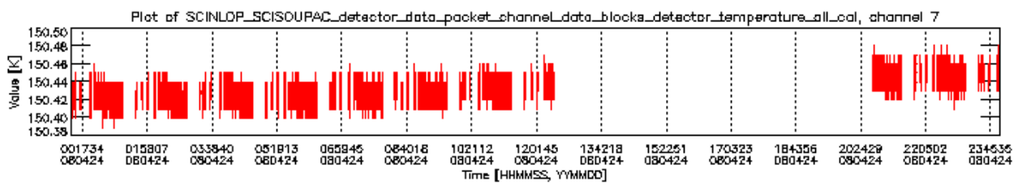

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
208.80
208.75
208.70
208.65
208.60
208.55
001734 080424
015807 080424
033840 080424
051813 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

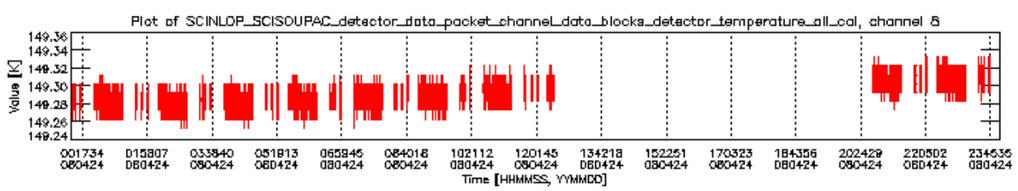

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
225.35
225.30
225.25
225.20
225.15
001734 080424
015807 080424
033840 080424
051813 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

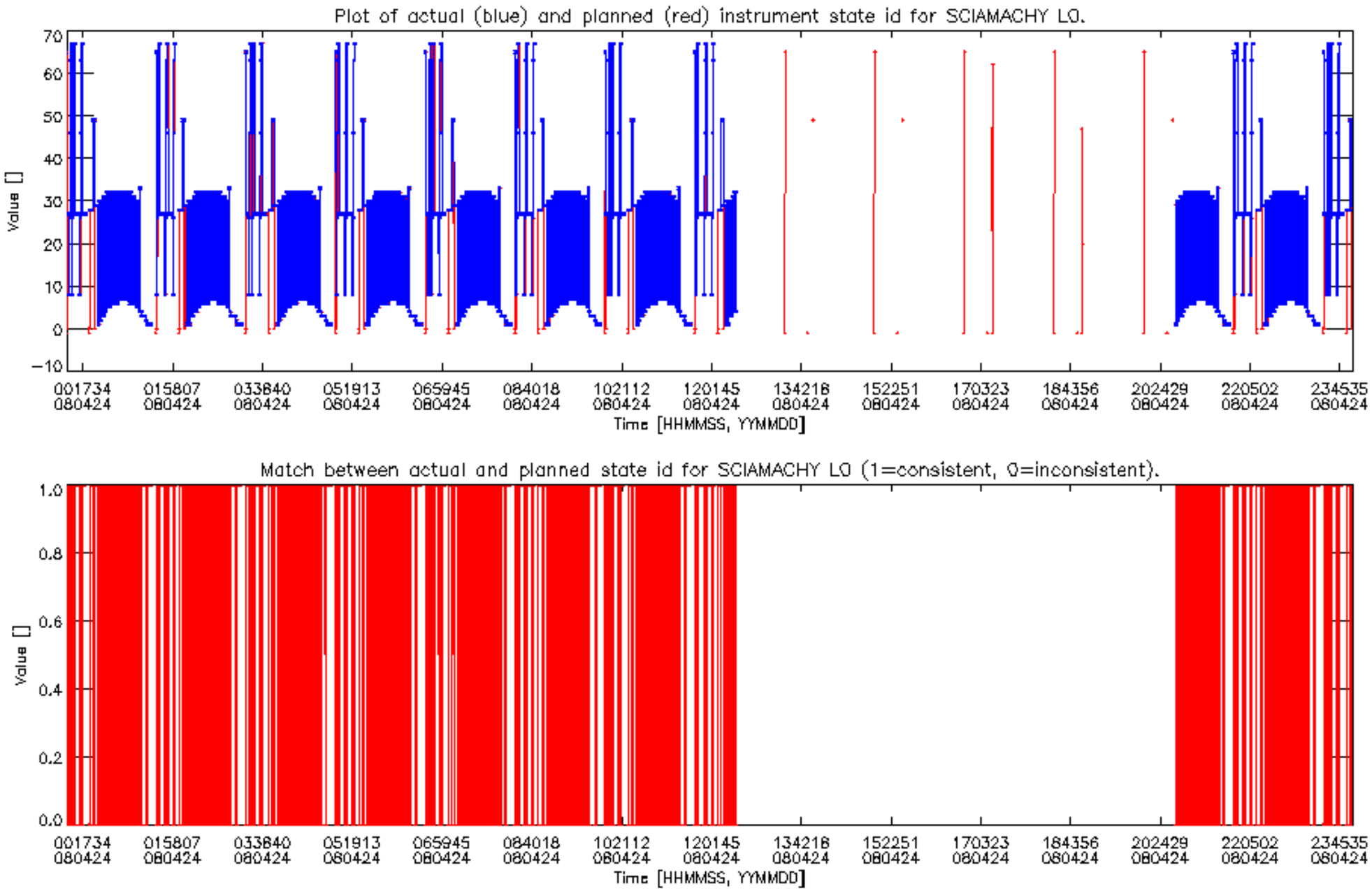

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
223.88
223.84
223.80
223.76
223.72
223.68
001734 080424
015807 080424
033840 080424
051813 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
222.14
222.12
222.10
222.08
222.06
222.04
222.02
222.00
221.98
001734 080424
015807 080424
033840 080424
051813 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

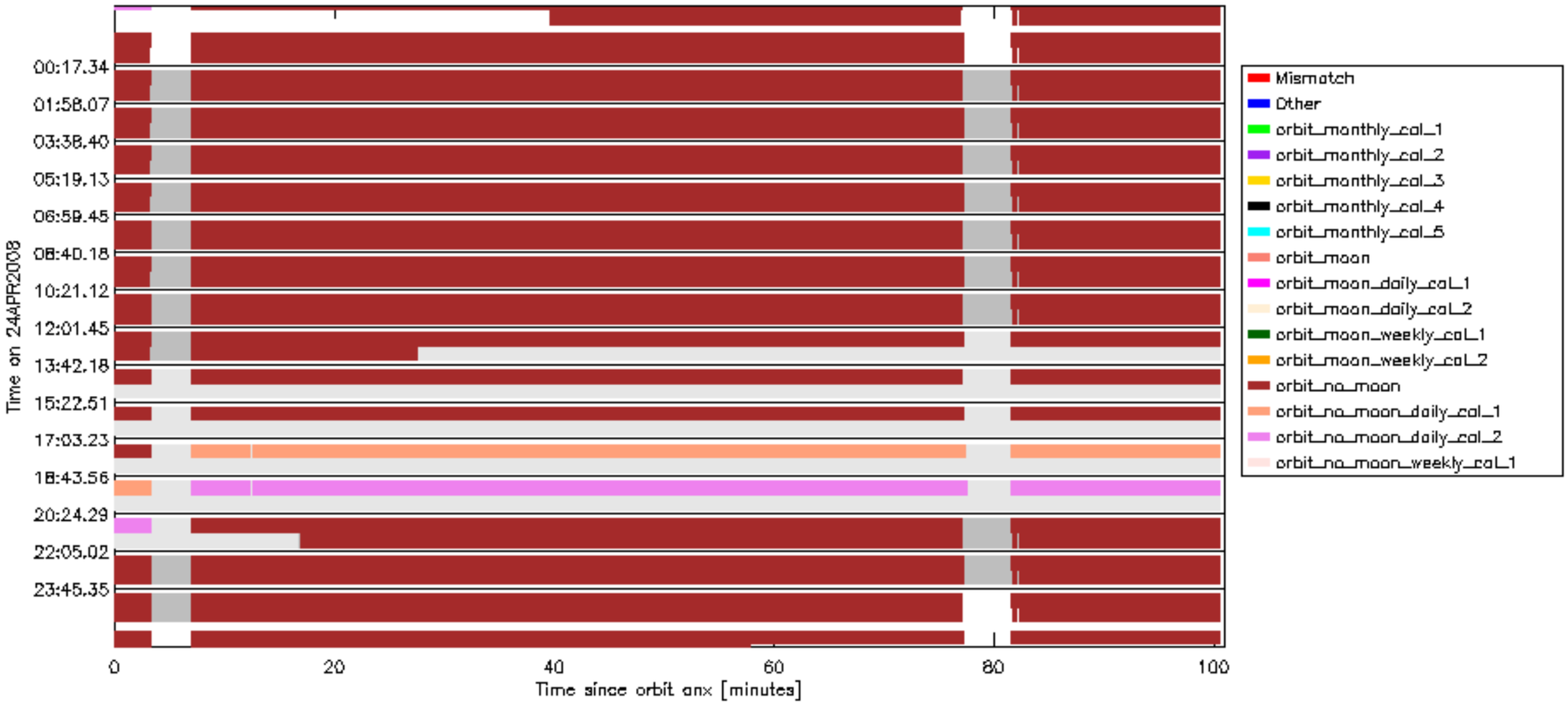

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
201.75
201.70
201.65
201.60
201.55
201.50
201.45
201.40
201.35
001734 080424
015807 080424
033840 080424
051813 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

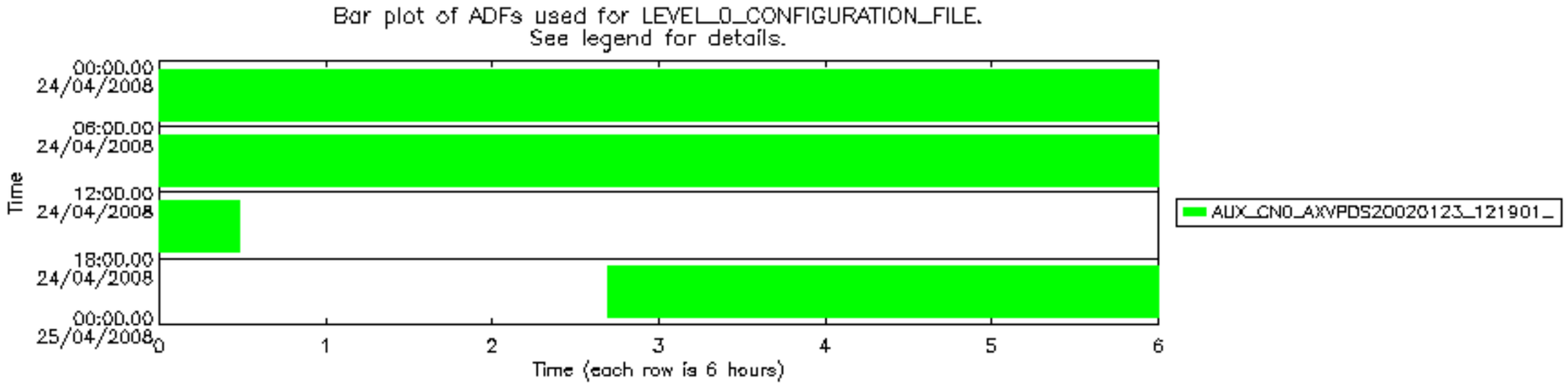

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
150.50
150.48
150.46
150.44
150.42
150.40
150.38
001734 080424
015807 080424
033840 080424
051813 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
Time [HHMMSS, YYMMDD]

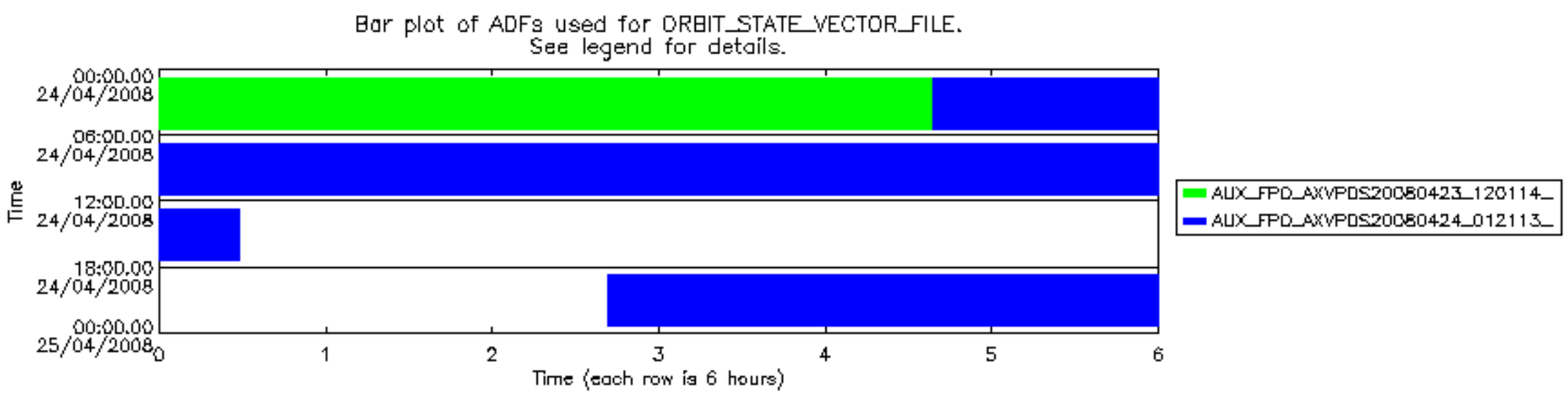

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
149.36
149.34
149.32
149.30
149.28
149.26
149.24
001734 080424
015807 080424
033840 080424
051813 080424
065845 080424
084018 080424
102112 080424
120145 080424
134218 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
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
001734 080424
015807 080424
033840 080424
051913 080424
065945 080424
084018 080424
102112 080424
120145 080424
134216 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
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
001734 080424
015807 080424
033840 080424
051913 080424
065945 080424
084018 080424
102112 080424
120145 080424
134216 080424
152251 080424
170323 080424
184356 080424
202429 080424
220502 080424
234535 080424
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 24APR2008.
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
24/04/2008
06:00.00
24/04/2008
12:00.00
24/04/2008
18:00.00
24/04/2008
00:00.00
25/04/2008
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
24/04/2008
06:00.00
24/04/2008
12:00.00
24/04/2008
18:00.00
24/04/2008
00:00.00
25/04/2008
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_FPD_AXVPDS20080423_120114_
AUX_FPD_AXVPDS20080424_012113_