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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	23MAY2010 02:34:56
Data source version	<Any version>
Processing scope for products	16MAY2010 00:00:00 to 17MAY2010 00:00:00
Start time of first product within scope	16MAY2010 01:07:35
Stop time of last product within scope	17MAY2010 00:39:22
Total number of Level 0 products	15
Number of Level 0 products with errors	0

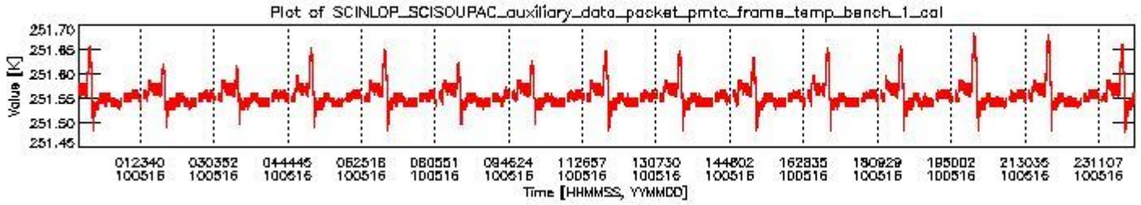
0.1.2 Summary per product

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

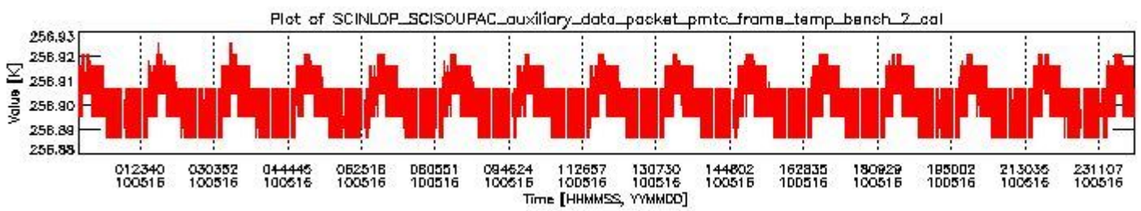
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDE20100516_010735_000098342089_00274_42913_1460.N1	16MAY2010 01:07:35	16MAY2010 03:51:29	0	0	0	0	0
1	SCI_NL__0PNPDE20100516_024311_000040992089_00275_42914_1545.N1	16MAY2010 02:43:11	16MAY2010 03:51:29	0	0	0	0	0
2	SCI_NL__0PNPDE20100516_035034_000069632089_00276_42915_1461.N1	16MAY2010 03:50:34	16MAY2010 05:46:36	0	0	0	0	0
3	SCI_NL__0PNPDE20100516_054528_000061732089_00277_42916_1462.N1	16MAY2010 05:45:28	16MAY2010 07:28:21	0	0	0	0	0
4	SCI_NL__0PNPDK20100516_072712_000039762089_00278_42917_1411.N1	16MAY2010 07:27:12	16MAY2010 08:33:28	0	0	0	0	0
5	SCI_NL__0PNPDK20100516_083232_000061602089_00279_42918_1412.N1	16MAY2010 08:32:32	16MAY2010 10:15:12	0	0	0	0	0
6	SCI_NL__0PNPDK20100516_101512_000059672089_00280_42919_1413.N1	16MAY2010 10:15:12	16MAY2010 11:54:39	0	0	0	0	0
7	SCI_NL__0PNPDK20100516_115344_000059802089_00281_42920_1414.N1	16MAY2010 11:53:44	16MAY2010 13:33:23	0	0	0	0	0
8	SCI_NL__0PNPDK20100516_133323_000058992089_00282_42921_1415.N1	16MAY2010 13:33:23	16MAY2010 15:11:42	0	0	0	0	0
9	SCI_NL__0PNPDK20100516_151142_000059242089_00283_42922_1416.N1	16MAY2010 15:11:42	16MAY2010 16:50:26	0	0	0	0	0
10	SCI_NL__0PNPDK20100516_164917_000058022089_00284_42923_1417.N1	16MAY2010 16:49:17	16MAY2010 18:26:00	0	0	0	0	0
11	SCI_NL__0PNPDK20100516_182451_000060482089_00285_42924_1418.N1	16MAY2010 18:24:51	16MAY2010 20:05:40	0	0	0	0	0
12	SCI_NL__0PNPDE20100516_200431_000043392089_00286_42925_1463.N1	16MAY2010 20:04:31	16MAY2010 21:16:50	0	0	0	0	0
13	SCI_NL__0PNPDE20100516_211607_000061682089_00286_42925_1464.N1	16MAY2010 21:16:07	16MAY2010 22:58:54	0	0	0	0	0
14	SCI_NL__0PNPDE20100516_225810_000060722089_00287_42926_1465.N1	16MAY2010 22:58:10	17MAY2010 00:39:22	0	0	0	0	0

0.2 Product Quality Indicators

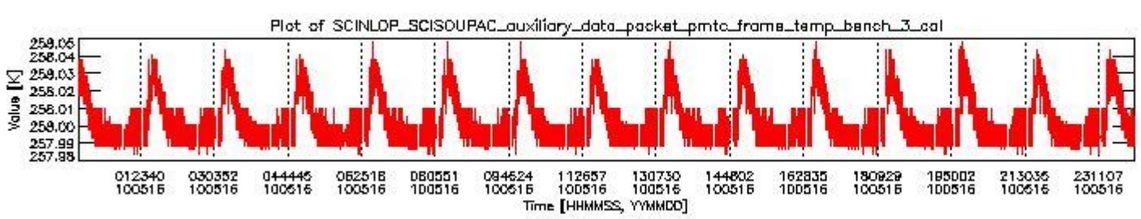
This section shows information about product quality, currently temperatures.



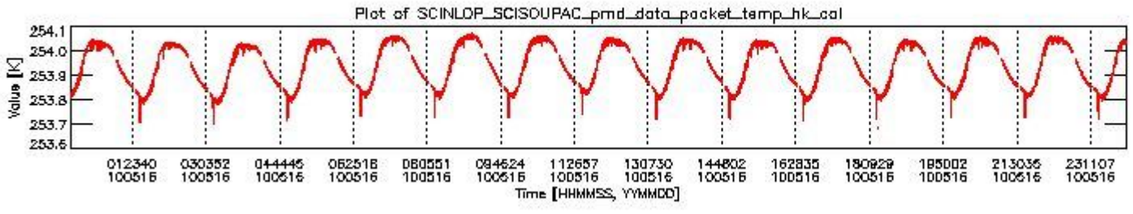
sciamachy_daily_report_level0__Any_version__20100516_0.PNG



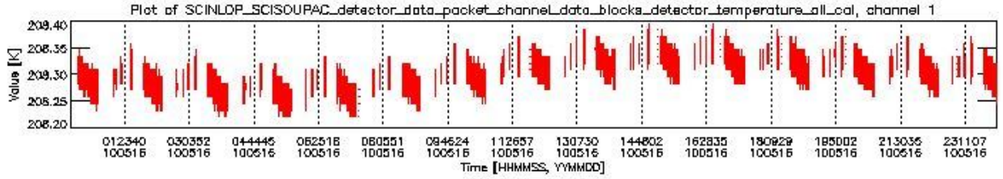
sciamachy_daily_report_level0__Any_version__20100516_1.PNG

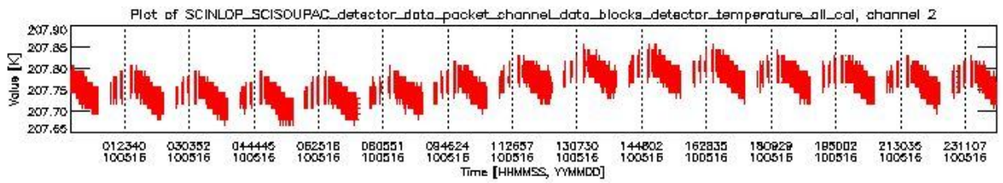


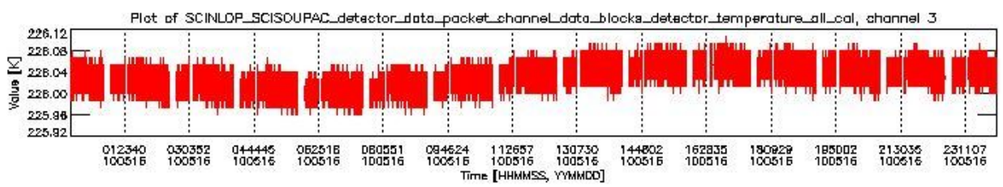
sciamachy_daily_report_level0__Any_version__20100516_2.PNG

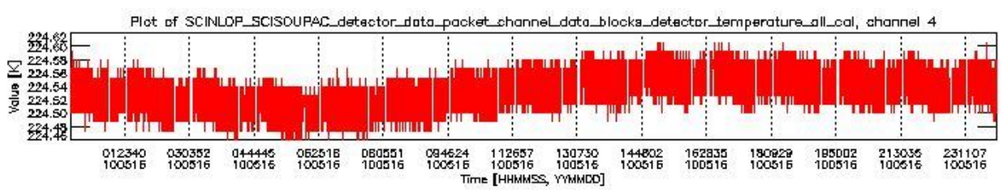


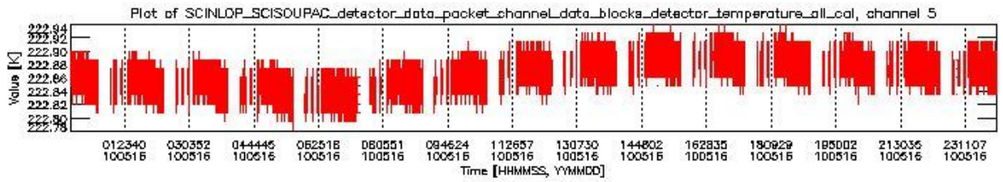
sciamachy_daily_report_level0__Any_version__20100516_3.PNG

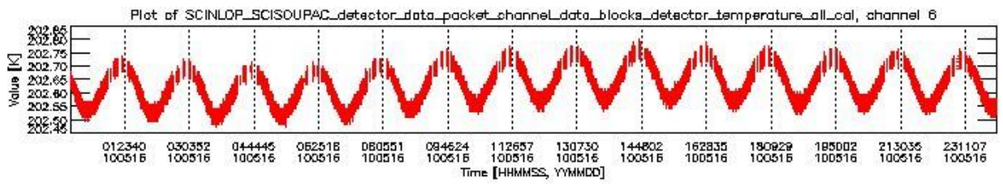

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
208.40
208.35
208.30
208.25
208.20
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]

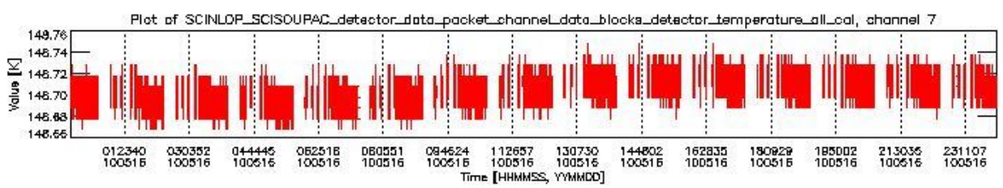

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
207.90
207.85
207.80
207.75
207.70
207.65
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]

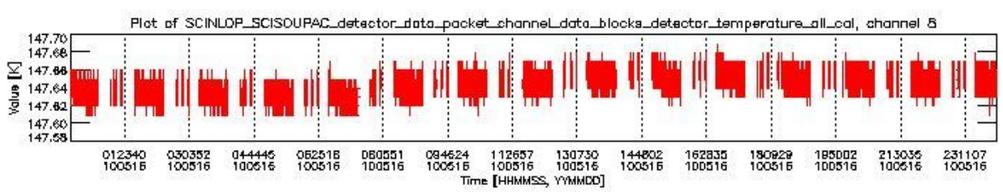

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
226.12
226.08
226.04
226.00
225.96
225.92
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
224.58
224.56
224.54
224.52
224.50
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
222.94
222.92
222.90
222.88
222.86
222.84
222.82
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
202.65
202.60
202.75
202.70
202.65
202.60
202.55
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
148.76
148.74
148.72
148.70
148.68
148.66
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]

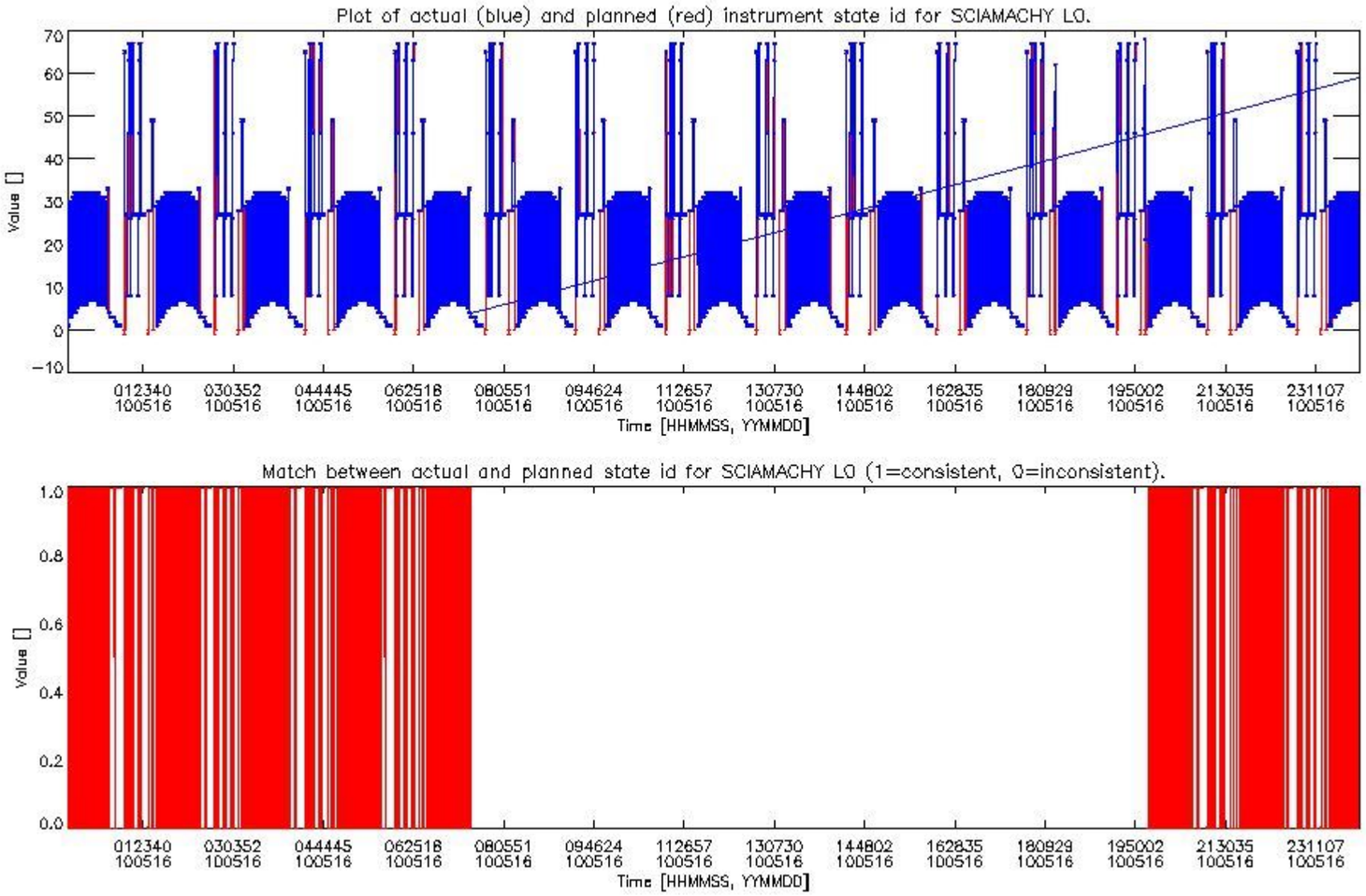

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
147.70
147.68
147.66
147.64
147.62
147.60
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
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: 44804

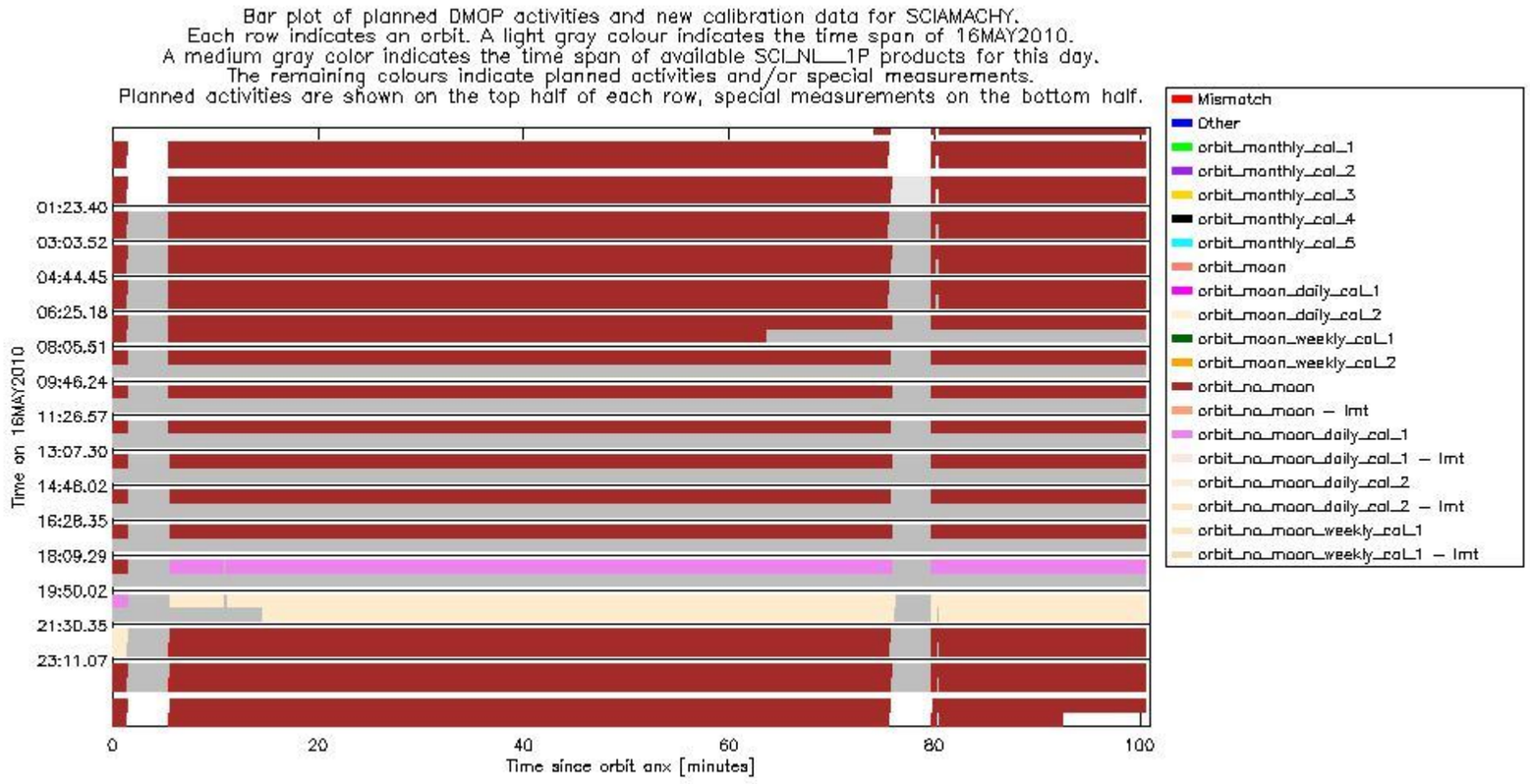
#	Actual time	Actual value	Planned time	Planned value
0	16MAY2010 00:00:20.809516	30	16MAY2010 00:00:20.809516	1
1	16MAY2010 00:00:21.434516	30	16MAY2010 00:00:21.434516	1
2	16MAY2010 00:00:21.809516	30	16MAY2010 00:00:21.809516	1
3	16MAY2010 00:00:22.184516	30	16MAY2010 00:00:22.184516	1
4	16MAY2010 00:00:22.747016	30	16MAY2010 00:00:22.747016	1
5	16MAY2010 00:00:23.122016	30	16MAY2010 00:00:23.122016	1
6	16MAY2010 00:00:23.497016	30	16MAY2010 00:00:23.497016	1
7	16MAY2010 00:00:23.872016	30	16MAY2010 00:00:23.872016	1
8	16MAY2010 00:00:24.434516	30	16MAY2010 00:00:24.434516	1
9	16MAY2010 00:00:24.809516	30	16MAY2010 00:00:24.809516	1
10	16MAY2010 00:00:25.184516	30	16MAY2010 00:00:25.184516	1
11	16MAY2010 00:00:25.559516	30	16MAY2010 00:00:25.559516	1
12	16MAY2010 00:00:25.809516	30	16MAY2010 00:00:25.809516	1
13	16MAY2010 00:00:26.122016	30	16MAY2010 00:00:26.122016	1
14	16MAY2010 00:00:26.497016	30	16MAY2010 00:00:26.497016	1
15	16MAY2010 00:00:26.872016	30	16MAY2010 00:00:26.872016	1
16	16MAY2010 00:00:27.247016	30	16MAY2010 00:00:27.247016	1
17	16MAY2010 00:00:27.809516	30	16MAY2010 00:00:27.809516	1
18	16MAY2010 00:00:28.184516	30	16MAY2010 00:00:28.184516	1
19	16MAY2010 00:00:28.559516	30	16MAY2010 00:00:28.559516	1
	...	...	...	...



sciamachy_daily_report_level0__Any_version__20100516_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.



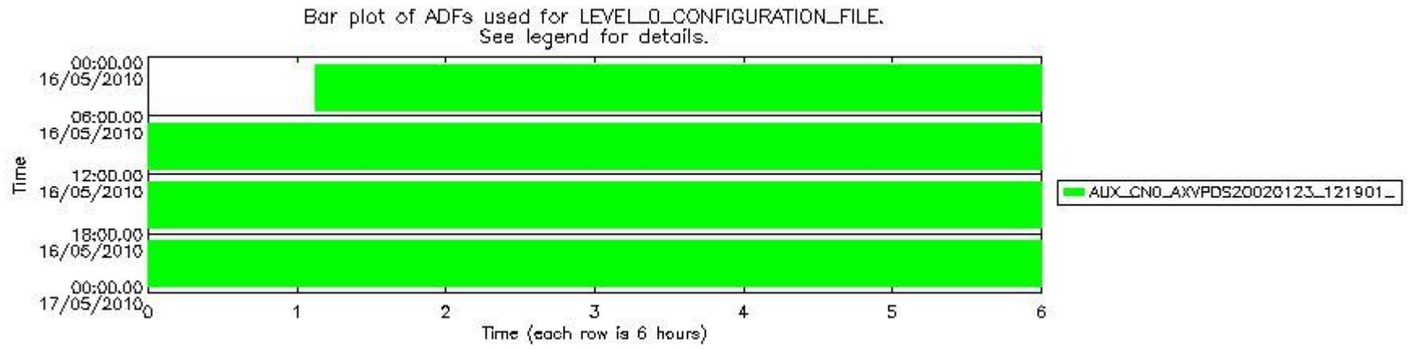
0.4 ADF monitoring

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

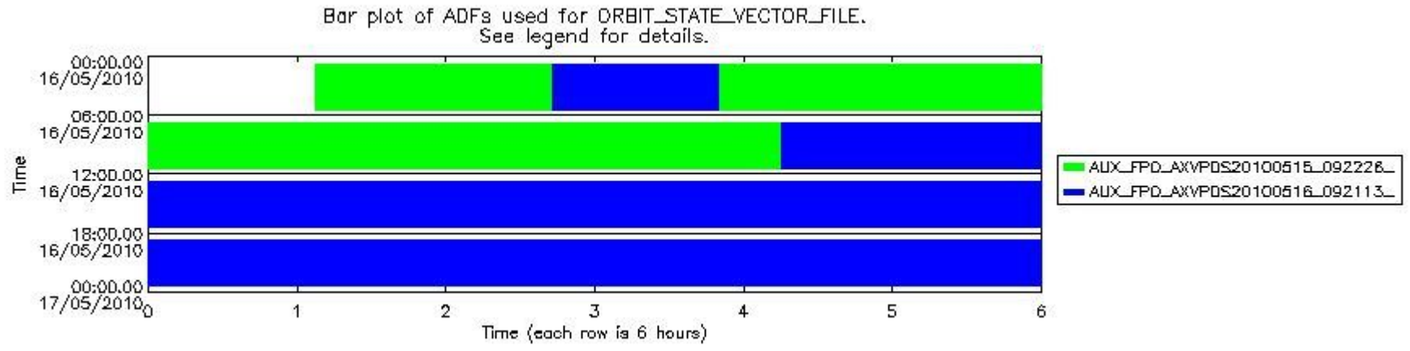
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

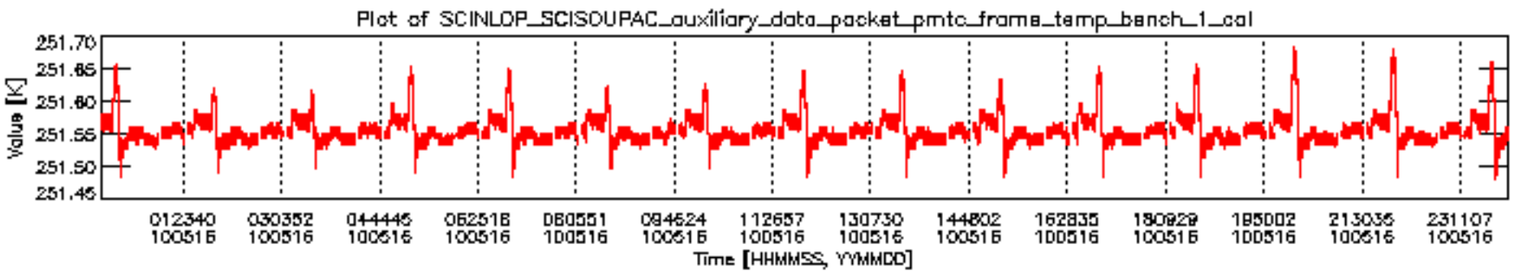
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	**AUX_FPO_AXVPDS20100515_092226_20100514_191237_20100524_203851**
2	**AUX_FPO_AXVPDS20100516_092113_20100515_184100_20100525_200714**

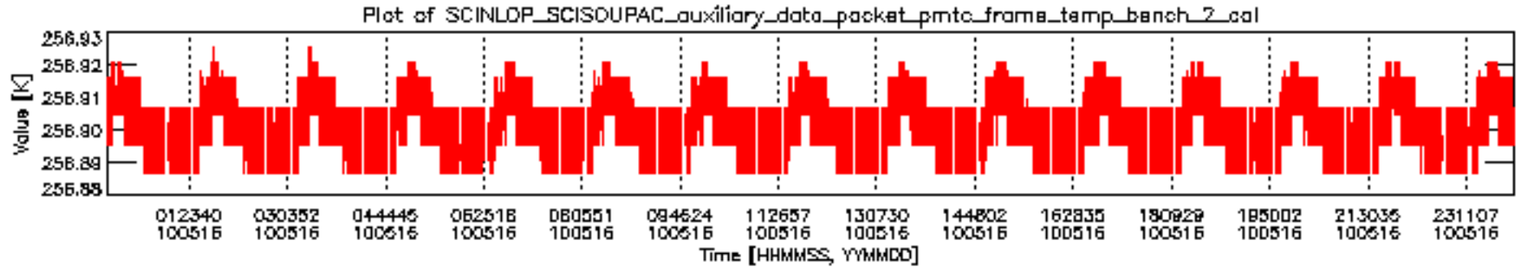


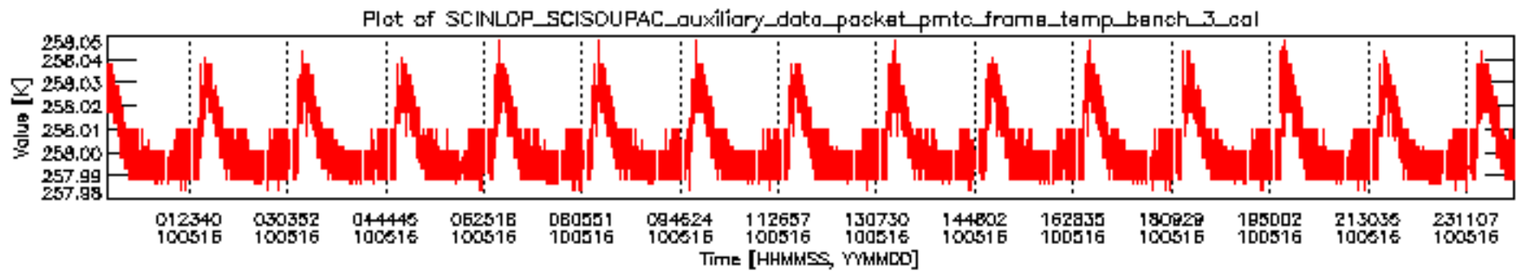
sciamachy_daily_report_level0__Any_version__20100516_7.PNG

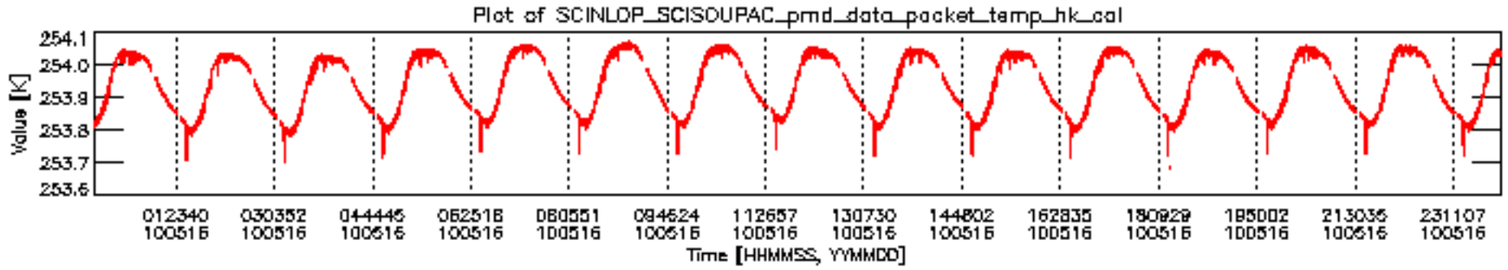


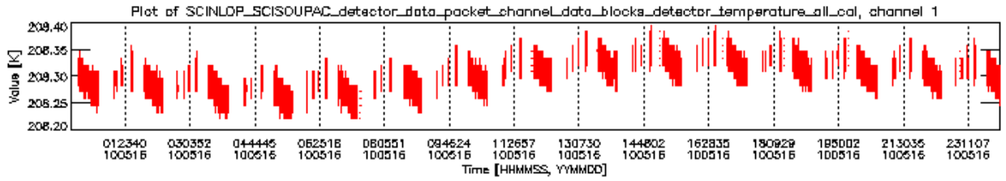
sciamachy_daily_report_level0__Any_version__20100516_8.PNG

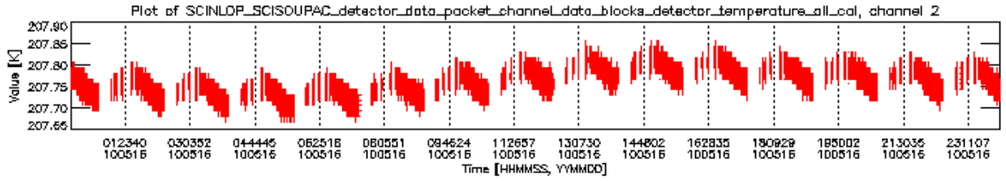

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_1_cal
Value [K]
251.70
251.65
251.60
251.55
251.50
251.45
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]

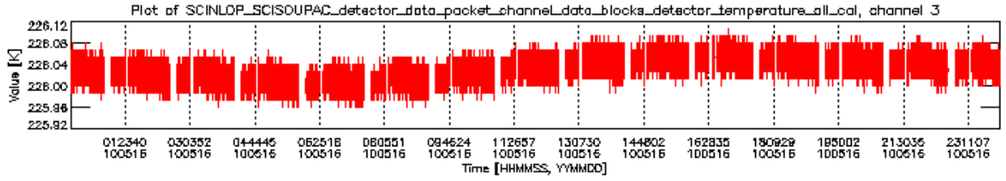

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_2_cal
256.93
256.92
256.91
256.90
256.89
256.88
Value [K]
012340 100516
030352 100516
044446 100516
062516 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213036 100516
231107 100516
Time [HHMMSS, YYMMDD]

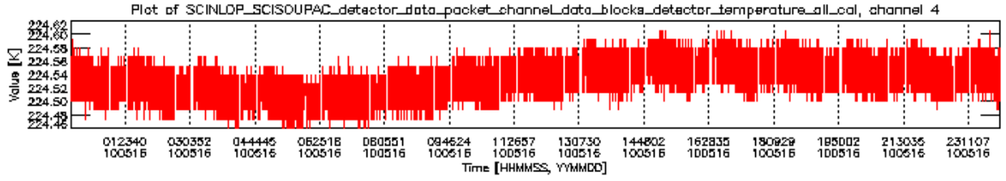

Plot of SCINLOP_SCISOUPAC_auxiliary_data_packet_pmtc_frame_temp_bench_3_cal
Value [K]
259.05
259.04
259.03
259.02
259.01
259.00
257.99
257.98
012340 100516
030352 100516
044446 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213036 100516
231107 100516
Time [HHMMSS, YYMMDD]

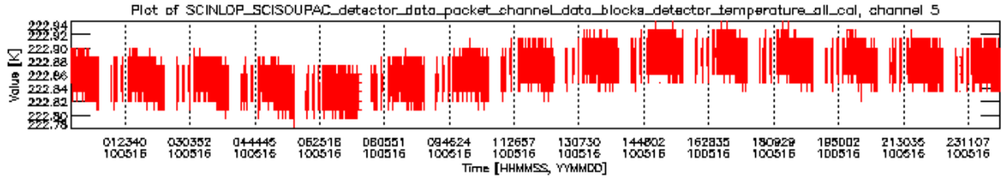

Plot of SCINLOP_SCISOUPAC_pmd_data_packet_temp_hk_cal
Value [K]
254.1
254.0
253.9
253.8
253.7
253.6
012340 100516
030352 100516
044445 100516
062516 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213036 100516
231107 100516
Time [HHMMSS, YYMMDD]

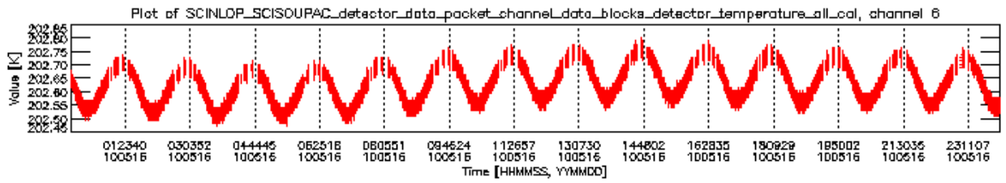

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 1
Value [K]
209.40
209.35
209.30
209.25
209.20
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]

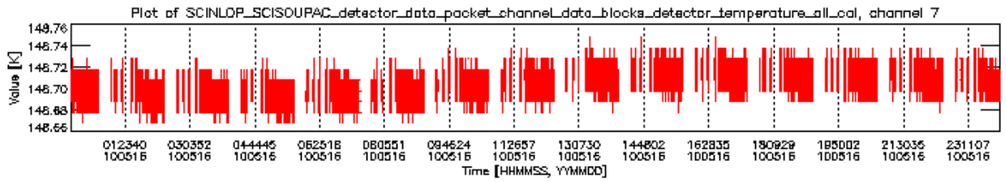

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 2
Value [K]
207.90
207.85
207.80
207.75
207.70
207.65
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]

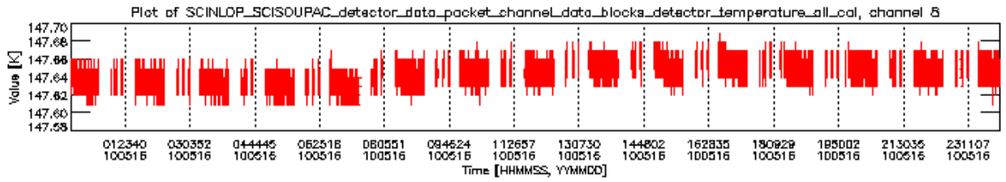

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 3
Value [K]
226.12
226.08
226.04
226.00
225.96
225.92
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]

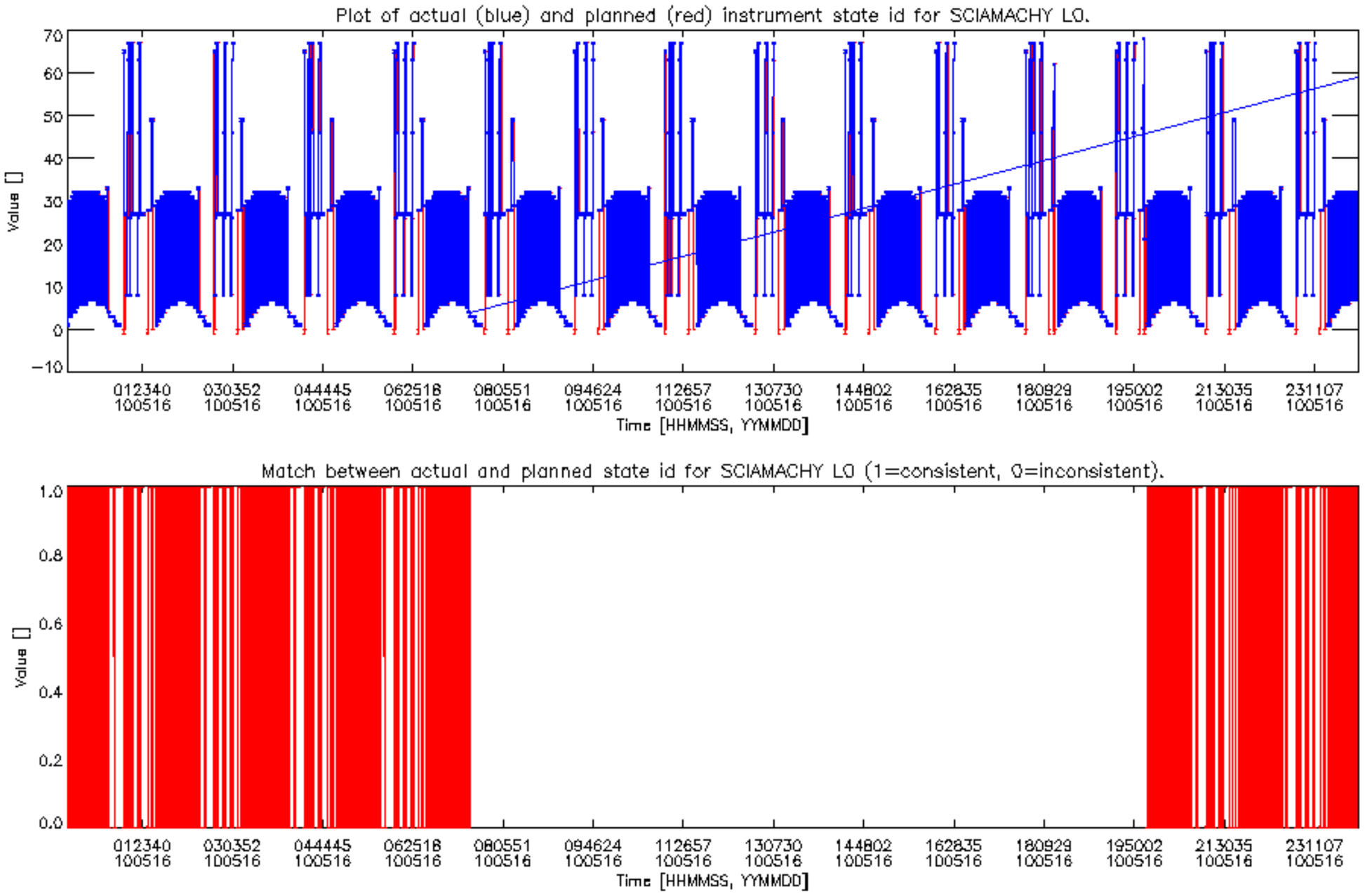

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 4
Value [K]
224.62
224.60
224.58
224.56
224.54
224.52
224.50
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]


Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 5
Value [K]
222.94
222.92
222.90
222.88
222.86
222.84
222.82
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]

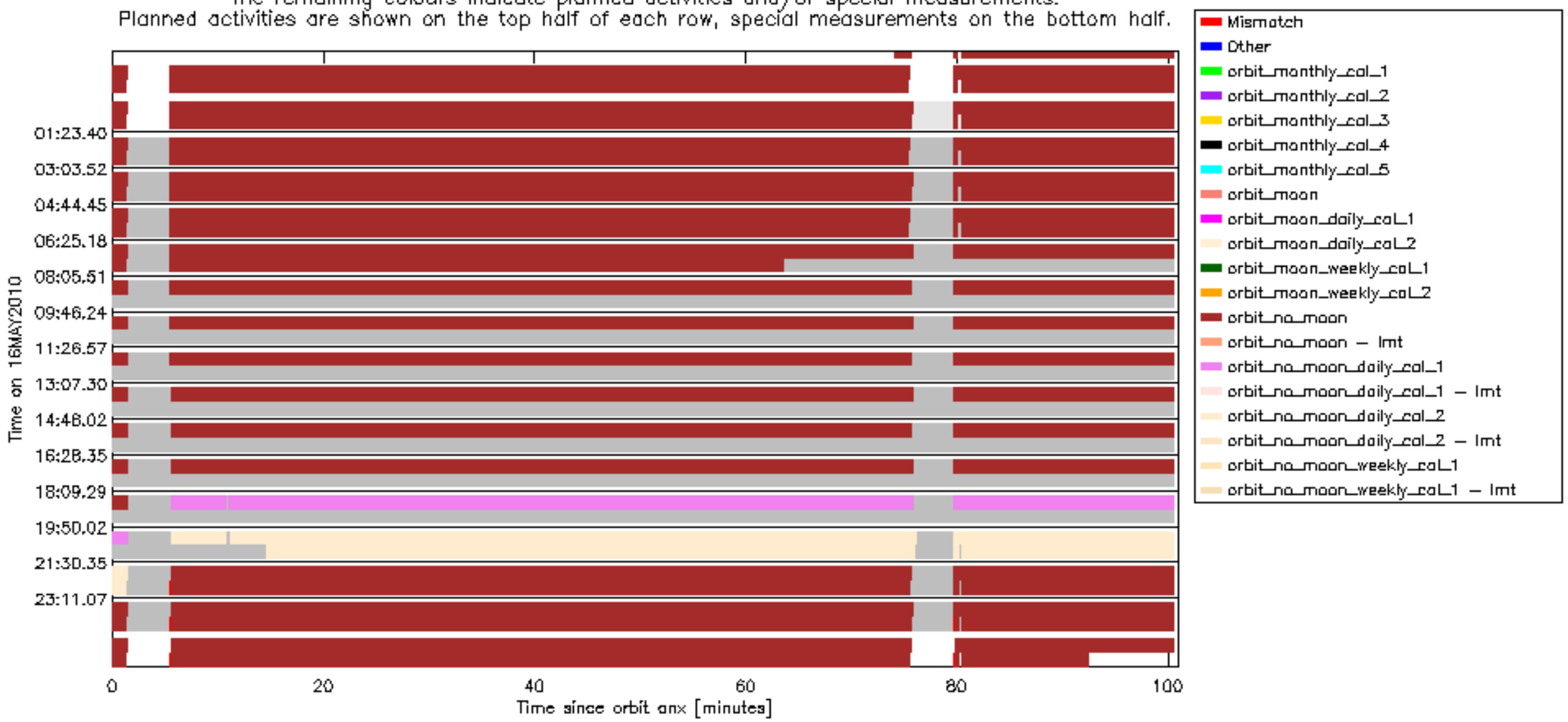

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 6
Value [K]
202.85
202.80
202.75
202.70
202.65
202.60
202.55
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]

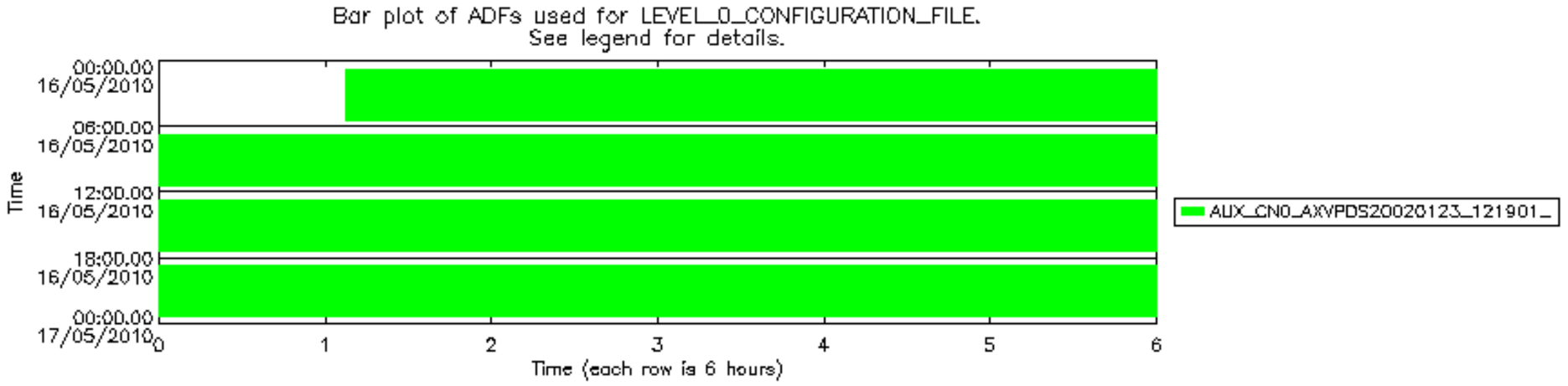

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 7
Value [K]
148.76
148.74
148.72
148.70
148.68
148.66
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
Time [HHMMSS, YYMMDD]

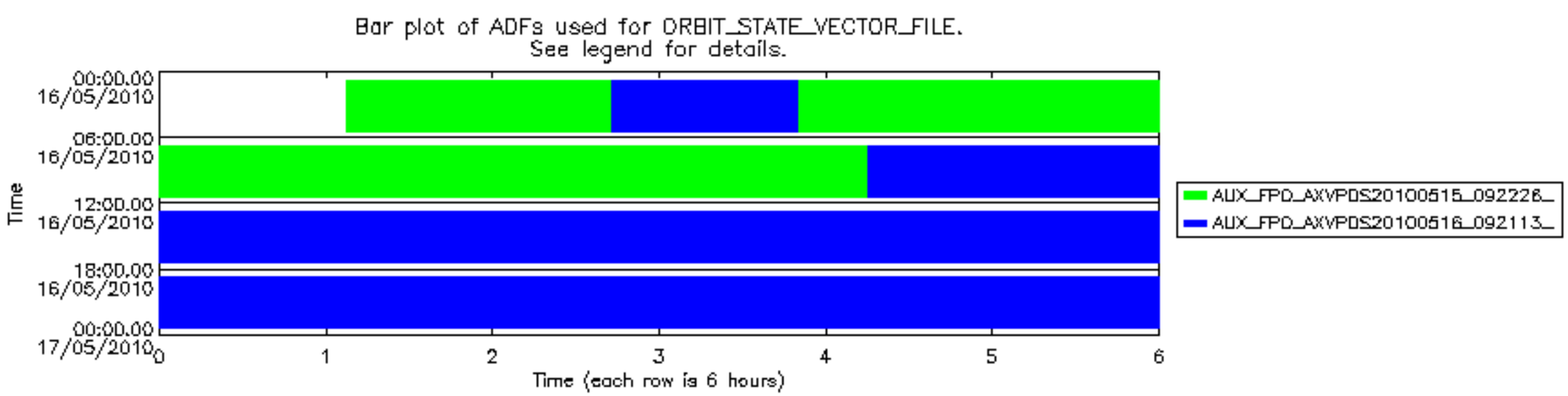

Plot of SCINLOP_SCISOUPAC_detector_data_packet_channel_data_blocks_detector_temperature_all_cal, channel 8
Value [K]
147.70
147.68
147.66
147.64
147.62
147.60
147.58
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
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
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
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
012340 100516
030352 100516
044445 100516
062518 100516
080551 100516
094624 100516
112657 100516
130730 100516
144802 100516
162835 100516
180929 100516
195002 100516
213035 100516
231107 100516
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 16MAY2010.
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
16/05/2010
06:00.00
16/05/2010
12:00.00
16/05/2010
18:00.00
16/05/2010
00:00.00
17/05/2010
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
16/05/2010
06:00.00
16/05/2010
12:00.00
16/05/2010
18:00.00
16/05/2010
00:00.00
17/05/2010
Time
0
1
2
3
4
5
6
Time (each row is 6 hours)
AUX_FPD_AXVPDS20100515_092226_
AUX_FPD_AXVPDS20100516_092113_