

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 characteristics of the data that are included into this report.

Item	Value
Report version	v1.3 20060731
Time of report generation	17NOV2008 05:44:11
Data source version	KSPT_L0/4303-N
Processing scope for products	13NOV2008 00:00:00 to 14NOV2008 00:00:00
Start time of first product within scope	12NOV2008 22:47:57
Stop time of last product within scope	14NOV2008 01:32:46
Total number of level 0 products	18
Number of level 0 products with errors	1

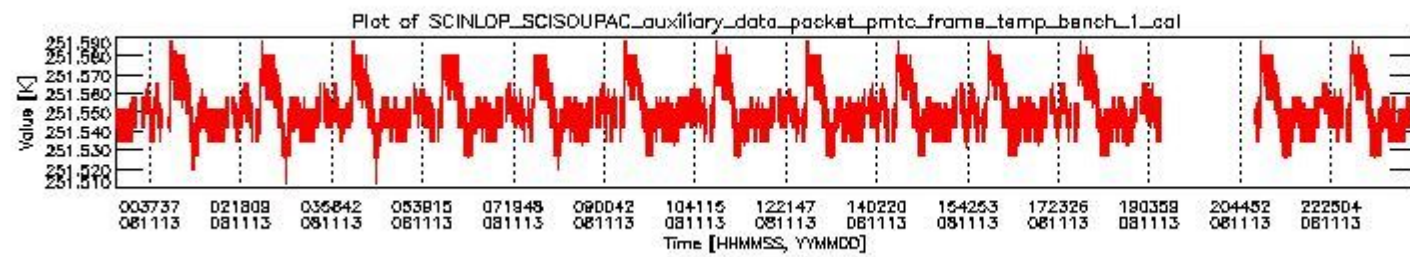
0.1.2 Summary per product

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

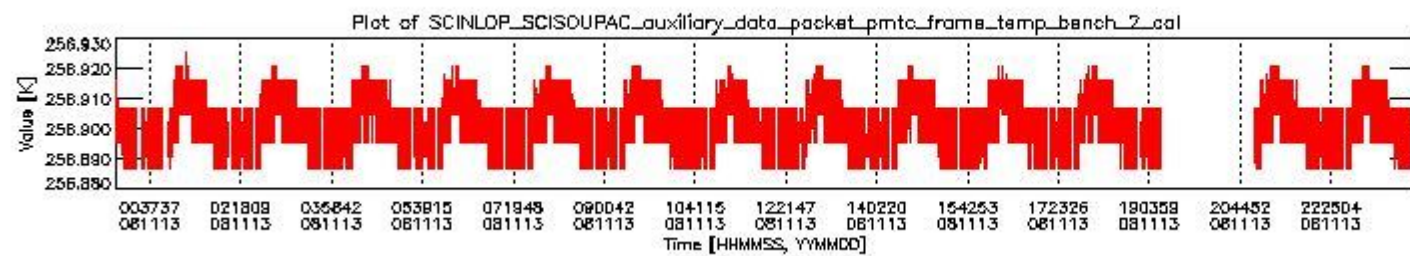
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081112_224757_000056342073_00430_35053_7895.N1	12NOV2008 22:47:57	13NOV2008 00:21:52	0	0	0	0	0
1	SCI_NL__OPNPDE20081113_002834_000056102073_00431_35054_7896.N1	13NOV2008 00:28:34	13NOV2008 02:02:04	0	0	0	0	0
2	SCI_NL__OPNPDE20081113_020055_000049292073_00432_35055_7897.N1	13NOV2008 02:00:55	13NOV2008 03:23:05	0	0	0	0	0
3	SCI_NL__OPNPDE20081113_032156_000058562073_00433_35056_7898.N1	13NOV2008 03:21:56	13NOV2008 04:59:32	0	0	0	0	0
4	SCI_NL__OPNPDE20081113_045824_000061052073_00434_35057_7899.N1	13NOV2008 04:58:24	13NOV2008 06:40:08	0	0	0	0	0
5	SCI_NL__OPNPDK20081113_063900_000041702073_00435_35058_9917.N1	13NOV2008 06:39:00	13NOV2008 07:48:30	0	0	0	0	0
6	SCI_NL__OPNPDK20081113_074734_000059682073_00436_35059_9918.N1	13NOV2008 07:47:34	13NOV2008 09:27:01	0	0	0	0	0
7	SCI_NL__OPNPDK20081113_092606_000061612073_00437_35060_9919.N1	13NOV2008 09:26:06	13NOV2008 11:08:46	0	0	0	0	0
8	SCI_NL__OPNPDK20081113_110738_000059802073_00438_35061_9920.N1	13NOV2008 11:07:38	13NOV2008 12:47:18	0	0	0	0	0
9	SCI_NL__OPNPDK20081113_124622_000060362073_00439_35062_9921.N1	13NOV2008 12:46:22	13NOV2008 14:26:58	0	0	0	0	0
10	SCI_NL__OPNPDK20081113_142603_000058432073_00440_35063_9927.N1	13NOV2008 14:26:03	13NOV2008 16:03:25	1	1	0	0	0
11	SCI_NL__OPNPDK20081113_151019_000031862073_00440_35063_9923.N1	13NOV2008 15:10:19	13NOV2008 16:03:25	0	0	0	0	0
12	SCI_NL__OPNPDK20081113_160325_000058122073_00441_35064_9924.N1	13NOV2008 16:03:25	13NOV2008 17:40:17	0	0	0	0	0
13	SCI_NL__OPNPDK20081113_174017_000057802073_00442_35065_9925.N1	13NOV2008 17:40:17	13NOV2008 19:16:37	0	0	0	0	0
14	SCI_NL__OPNPDK20081113_192053_000057412073_00443_35066_9926.N1	13NOV2008 19:20:53	13NOV2008 20:56:34	0	0	0	0	0
15	SCI_NL__OPNPDE20081113_210129_000042072073_00444_35067_7900.N1	13NOV2008 21:01:29	13NOV2008 22:11:36	0	0	0	0	0
16	SCI_NL__OPNPDE20081113_221136_000060352073_00444_35067_7901.N1	13NOV2008 22:11:36	13NOV2008 23:52:11	0	0	0	0	0
17	SCI_NL__OPNPDE20081113_235702_000057452073_00445_35068_7902.N1	13NOV2008 23:57:02	14NOV2008 01:32:46	0	0	0	0	0

0.2 Product Quality Indicators

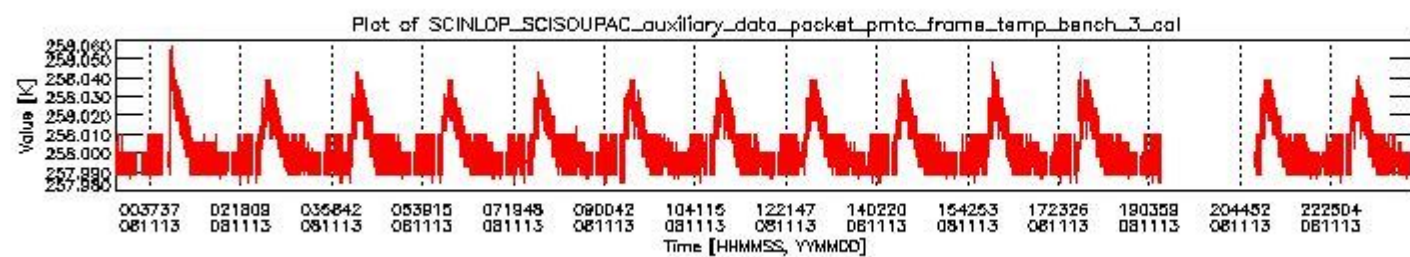
This section shows information about product quality, currently temperatures.



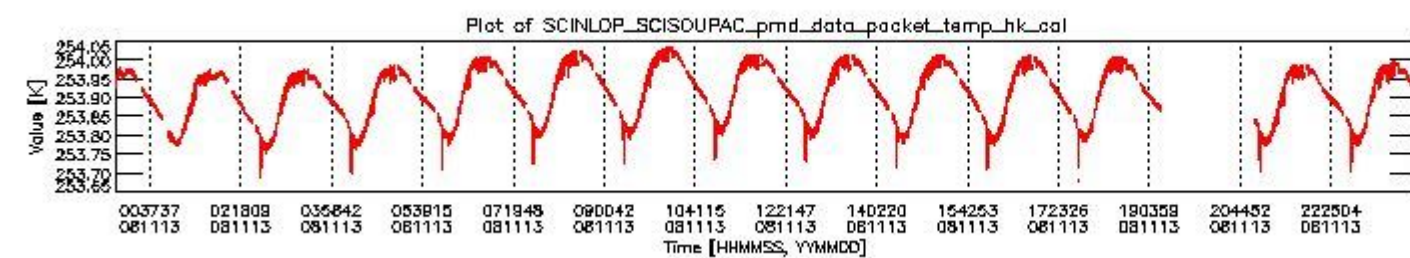
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081113_0.PNG



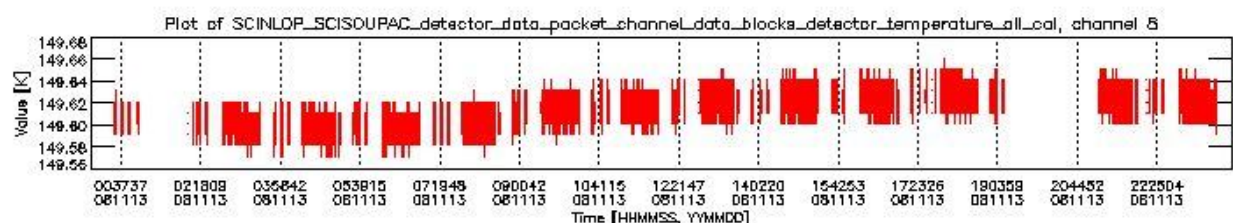
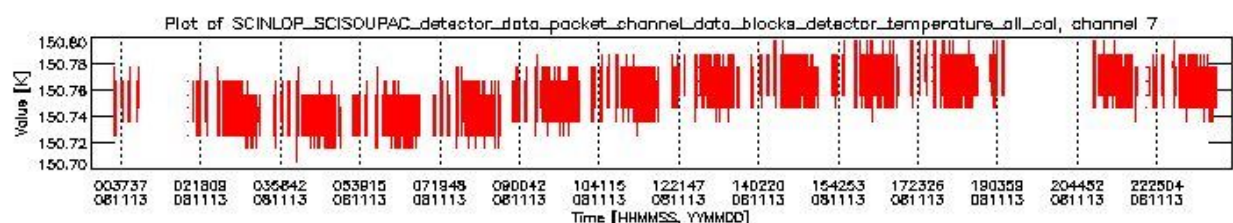
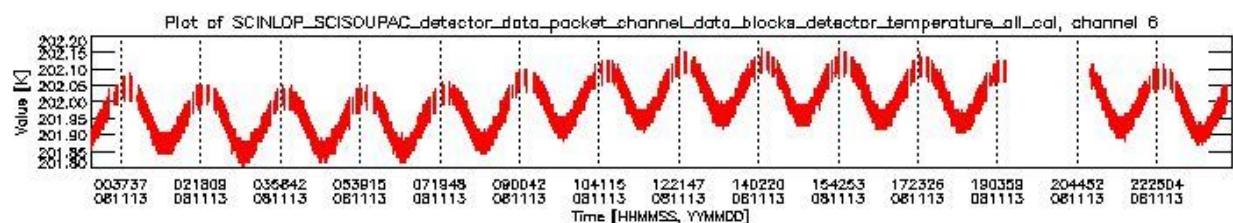
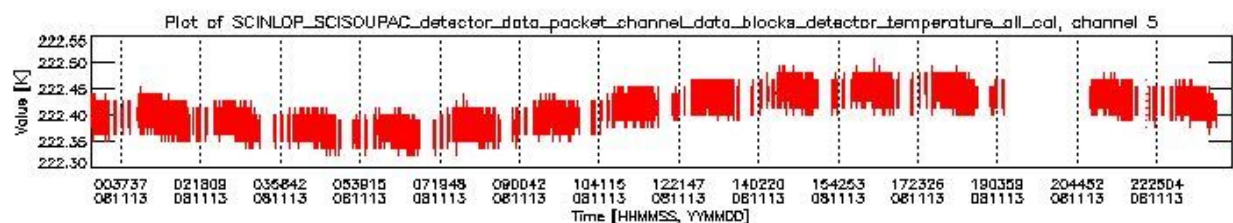
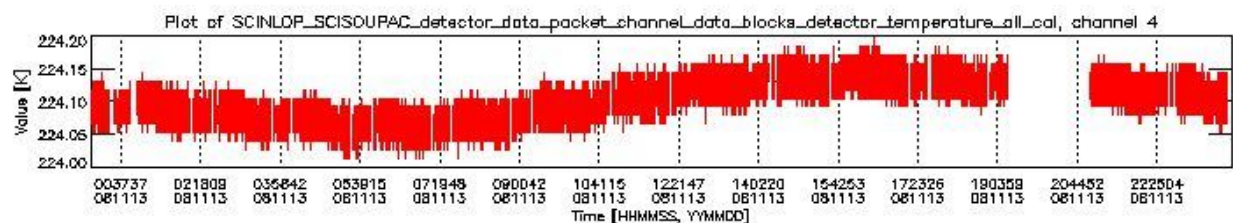
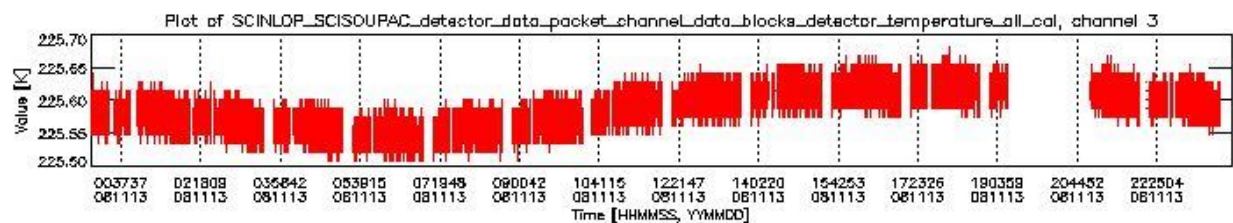
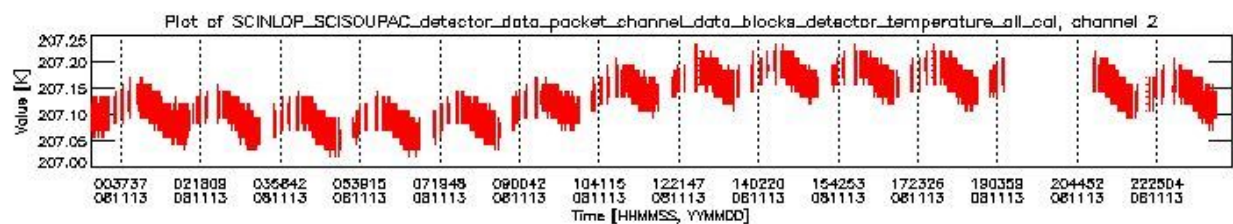
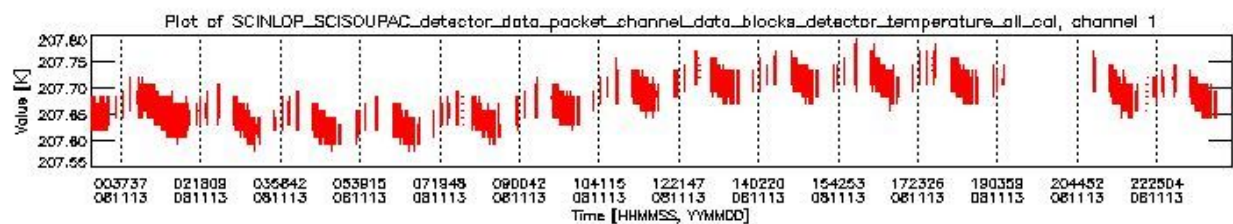
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081113_1.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20081113_2.PNG



sciamachy_daily_report_level0_KSPT_L0_4303_N_20081113_3.PNG

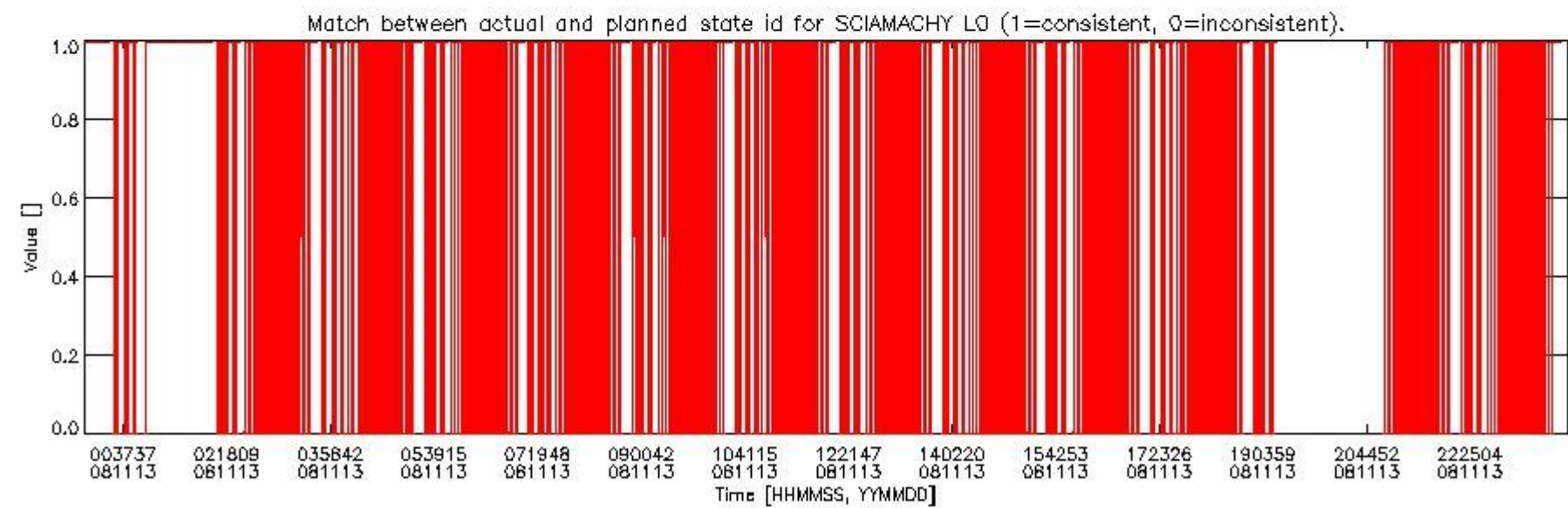
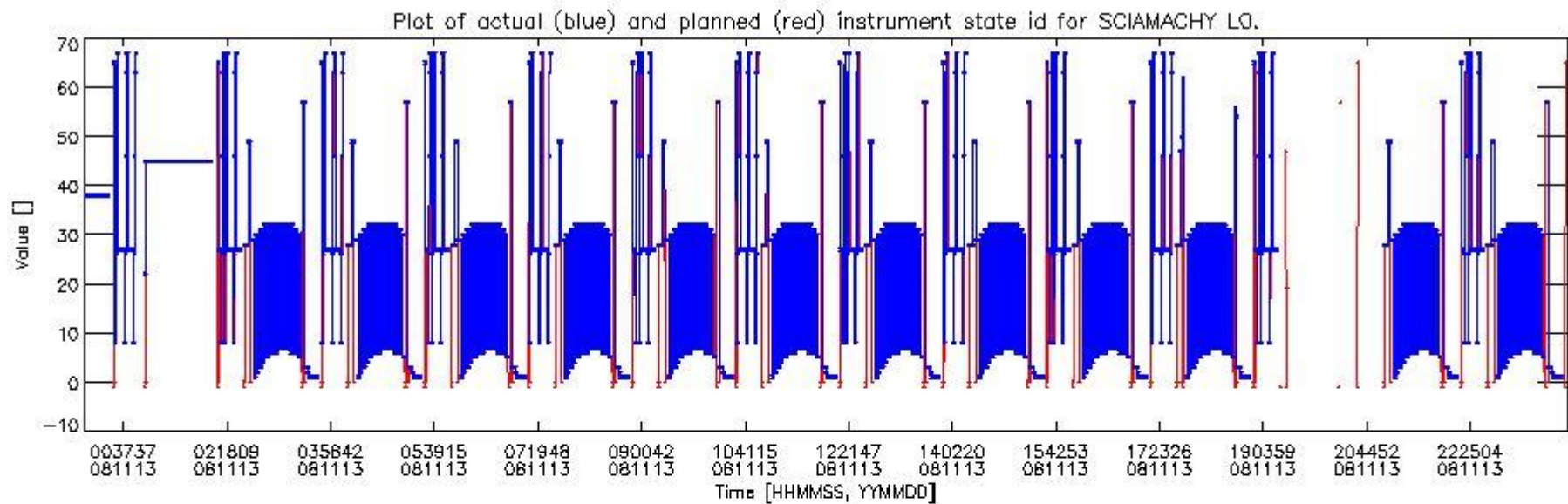


0.3 State monitoring

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: **42919**

#	Actual time	Actual value	Planned time	Planned value
0	13NOV2008 00:28:34.205226	65	13NOV2008 00:28:34.205226	0
1	13NOV2008 00:28:34.830208	65	13NOV2008 00:28:34.830208	0
2	13NOV2008 00:28:35.330225	65	13NOV2008 00:28:35.330225	0
3	13NOV2008 00:28:35.830202	65	13NOV2008 00:28:35.830202	0
4	13NOV2008 00:28:36.330220	65	13NOV2008 00:28:36.330220	0
5	13NOV2008 00:28:36.830197	65	13NOV2008 00:28:36.830197	0
6	13NOV2008 00:28:37.330214	65	13NOV2008 00:28:37.330214	0
7	13NOV2008 00:28:37.830232	65	13NOV2008 00:28:37.830232	0
8	13NOV2008 00:28:38.330209	65	13NOV2008 00:28:38.330209	0
9	13NOV2008 00:28:38.830226	65	13NOV2008 00:28:38.830226	0
10	13NOV2008 00:28:39.205199	65	13NOV2008 00:28:39.205199	0
11	13NOV2008 00:28:39.330204	65	13NOV2008 00:28:39.330204	0
12	13NOV2008 00:28:39.830221	65	13NOV2008 00:28:39.830221	0
13	13NOV2008 00:28:40.330198	65	13NOV2008 00:28:40.330198	0
14	13NOV2008 00:28:40.830216	65	13NOV2008 00:28:40.830216	0
15	13NOV2008 00:28:41.330233	65	13NOV2008 00:28:41.330233	0
16	13NOV2008 00:28:41.830210	65	13NOV2008 00:28:41.830210	0
17	13NOV2008 00:28:42.330227	65	13NOV2008 00:28:42.330227	0
18	13NOV2008 00:28:42.830205	65	13NOV2008 00:28:42.830205	0
19	13NOV2008 00:28:43.330222	65	13NOV2008 00:28:43.330222	0
...

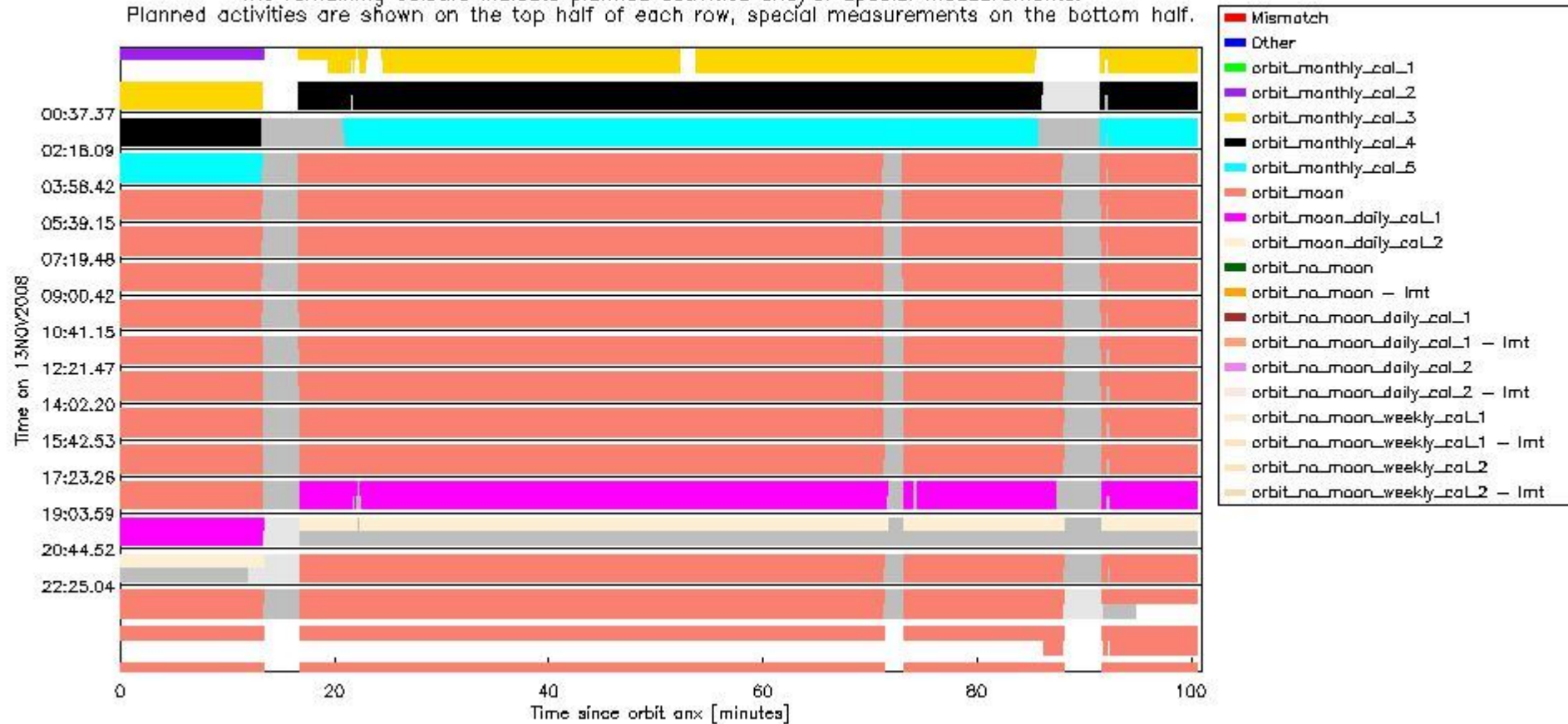


sciamachy_daily_report_level0_KSPT_L0_4303_N_20081113_5.PNG

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.

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 13NOV2008.
 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.



sciamachy_daily_report_level0_KSPT_L0_4303_N_20081113_6.PNG

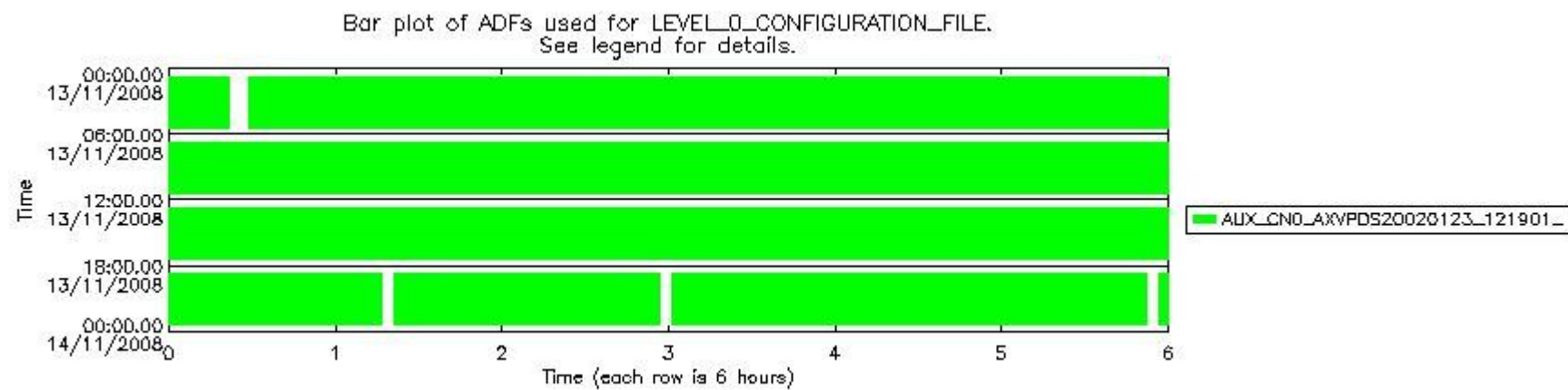
0.4 ADF monitoring

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

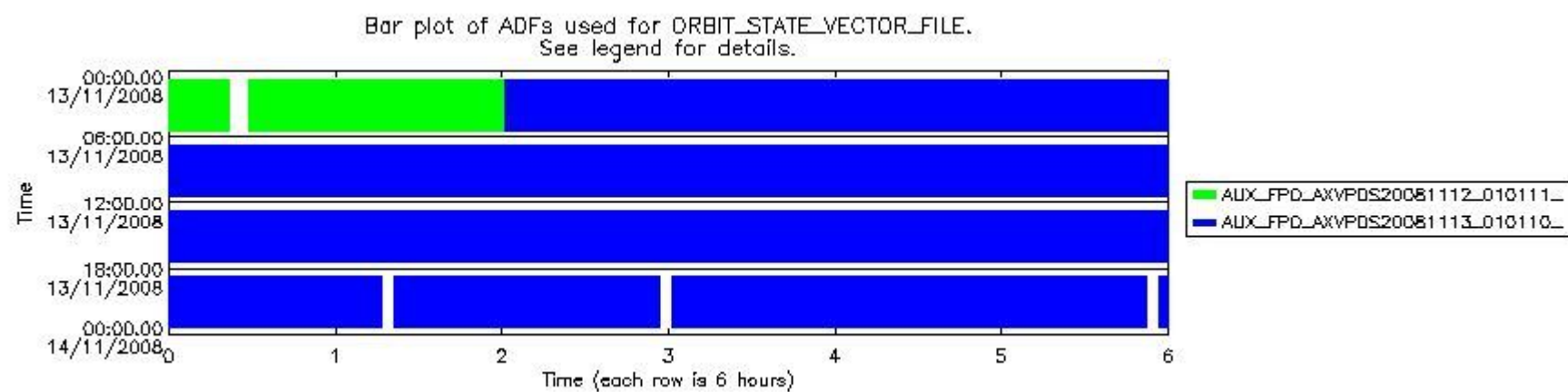
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

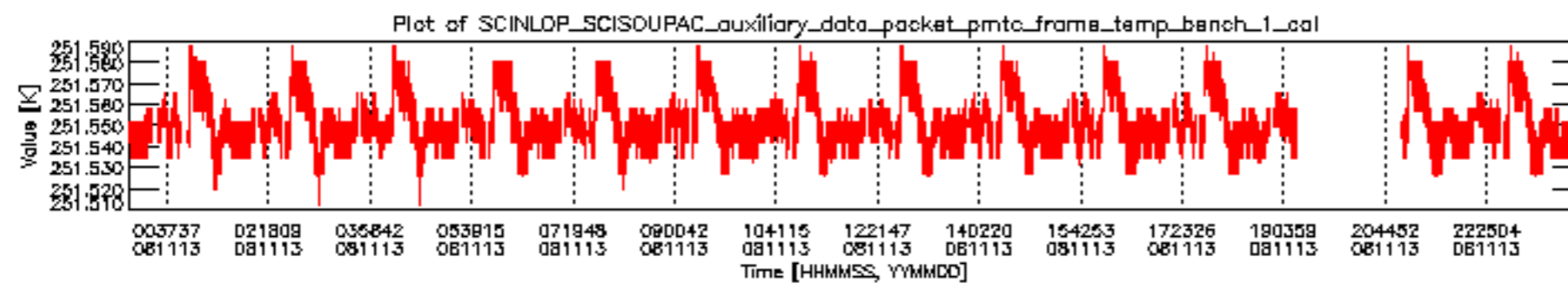
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20081112_010111_20081111_182646_20081121_213334
2	AUX_FPO_AXVPDS20081113_010110_20081112_193544_20081122_210157

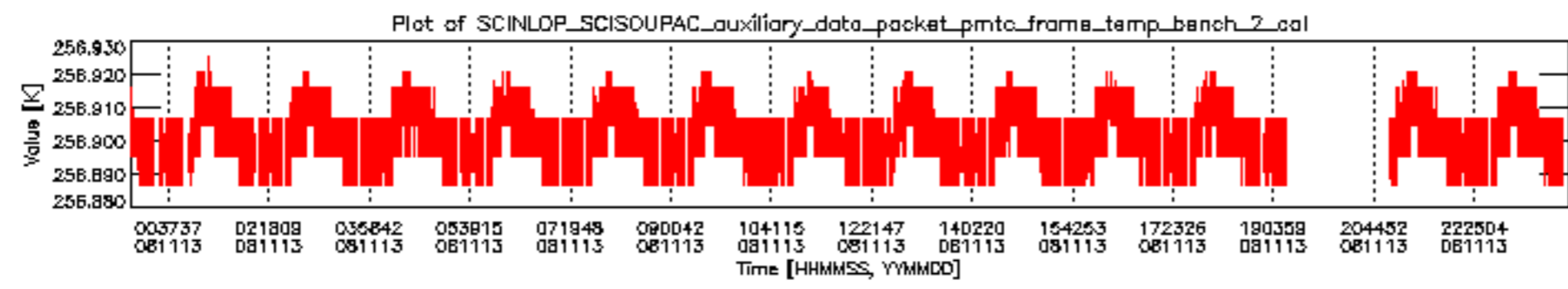


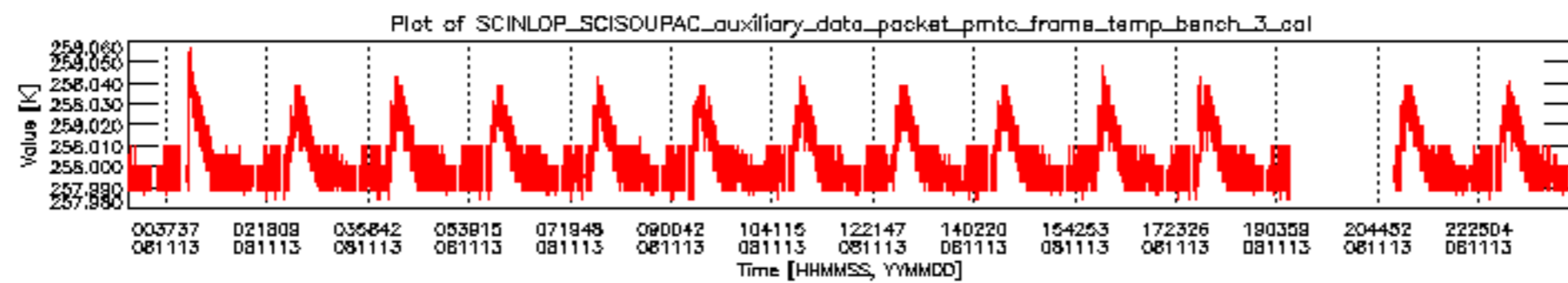
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081113_7.PNG

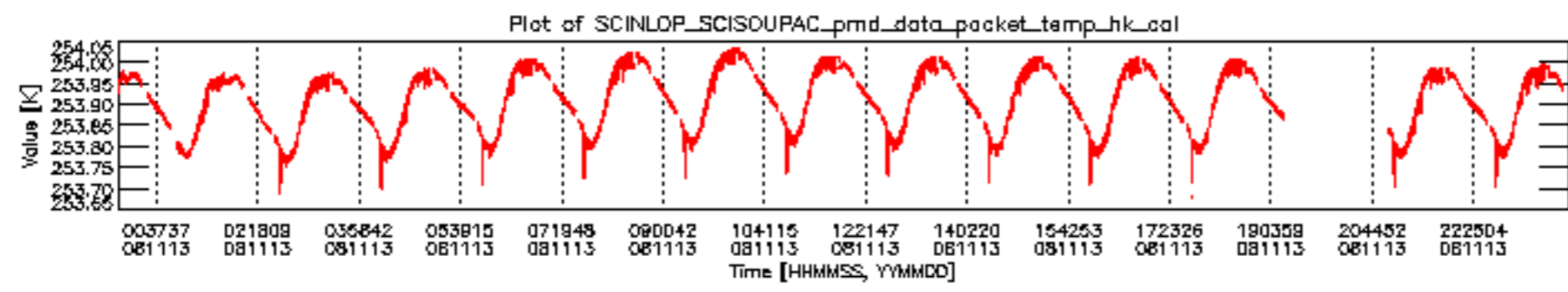


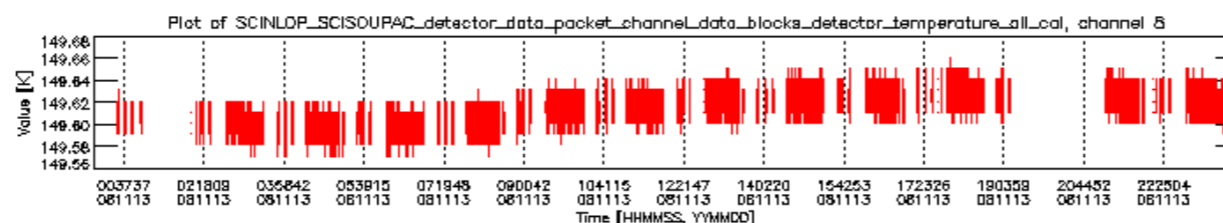
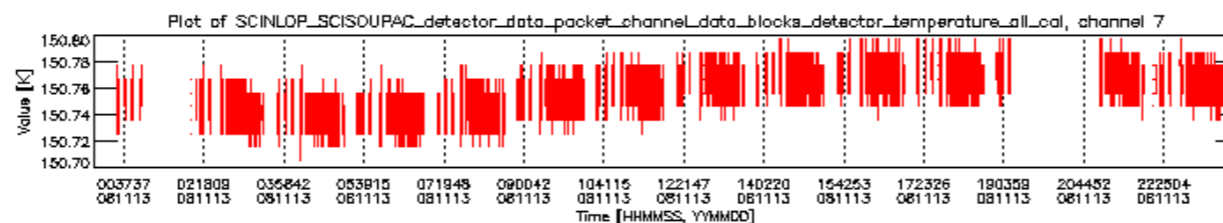
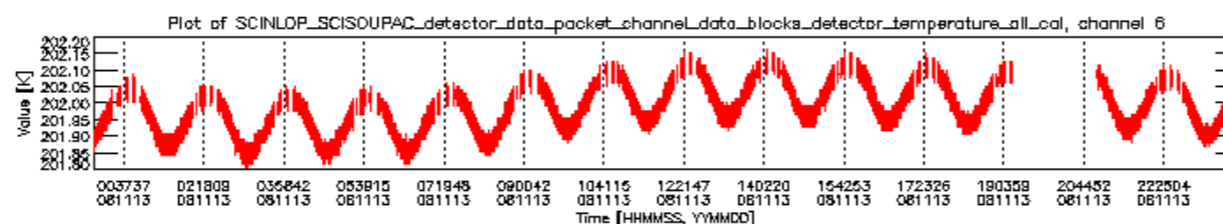
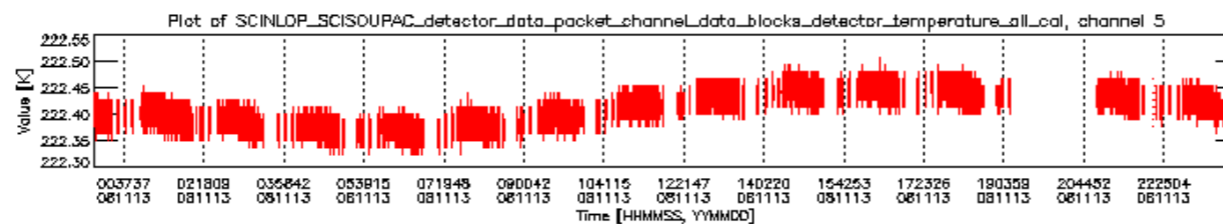
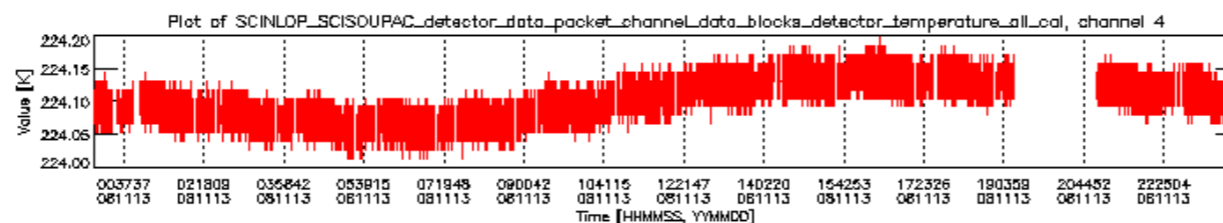
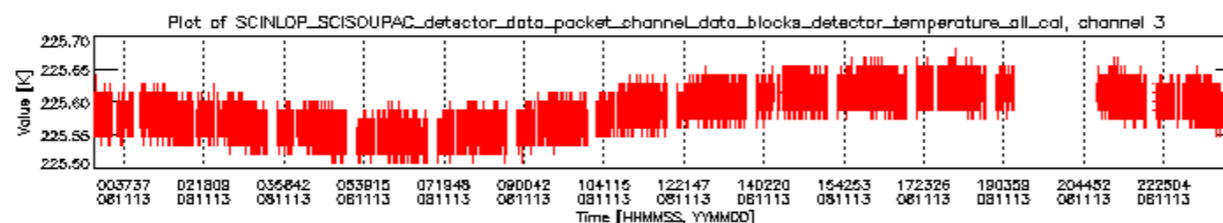
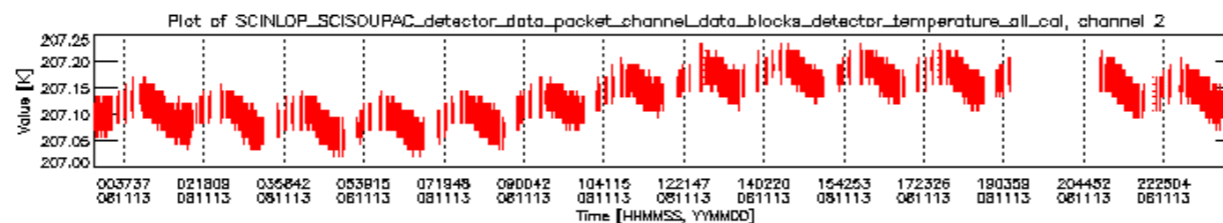
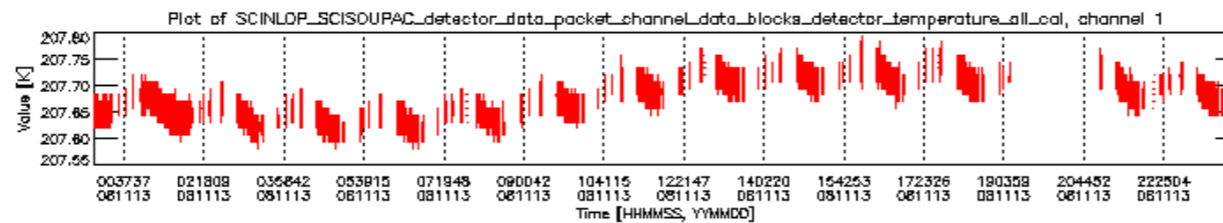
sciamachy_daily_report_level0_KSPT_L0_4303_N_20081113_8.PNG

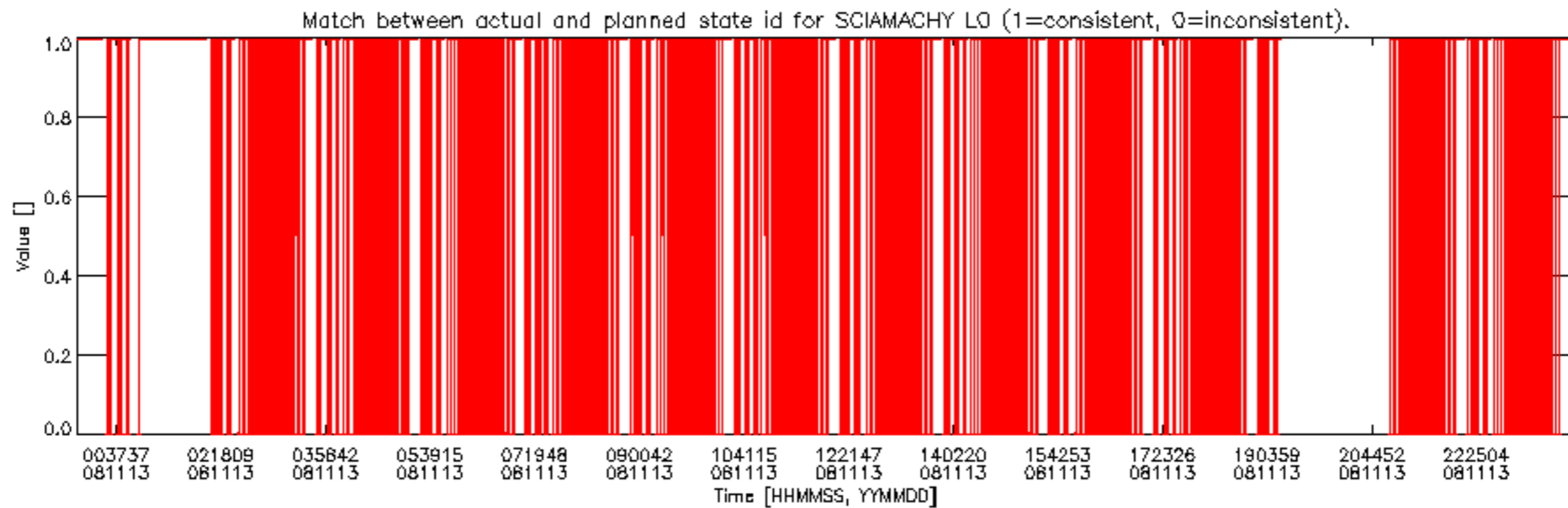
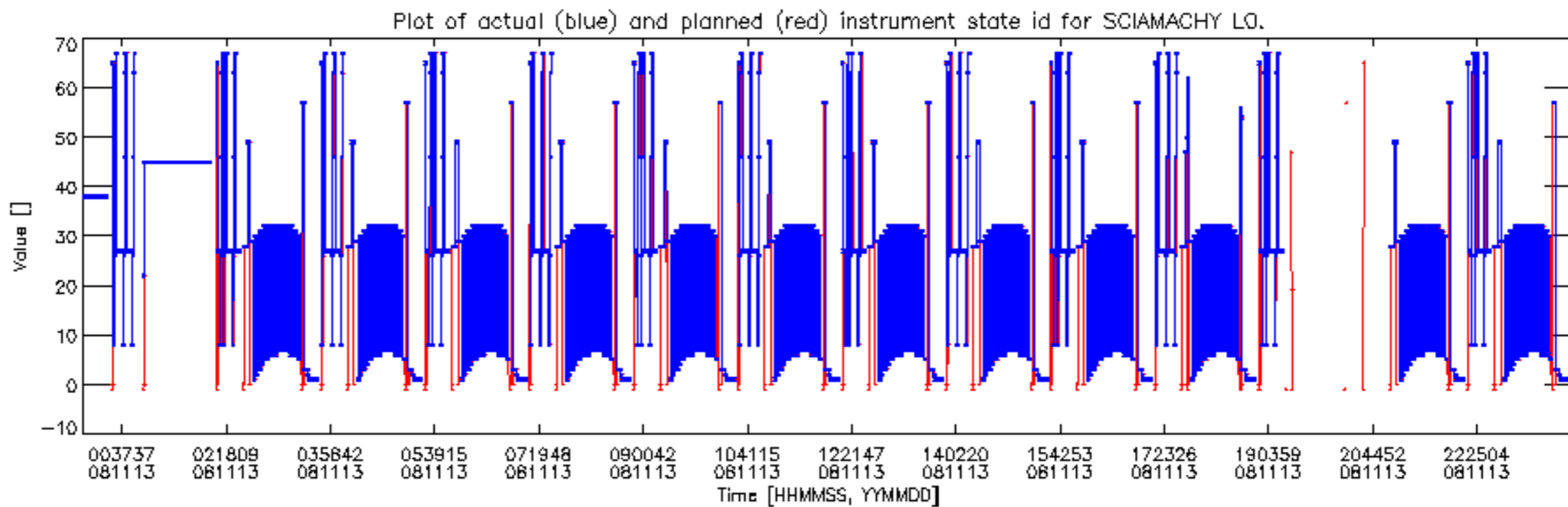




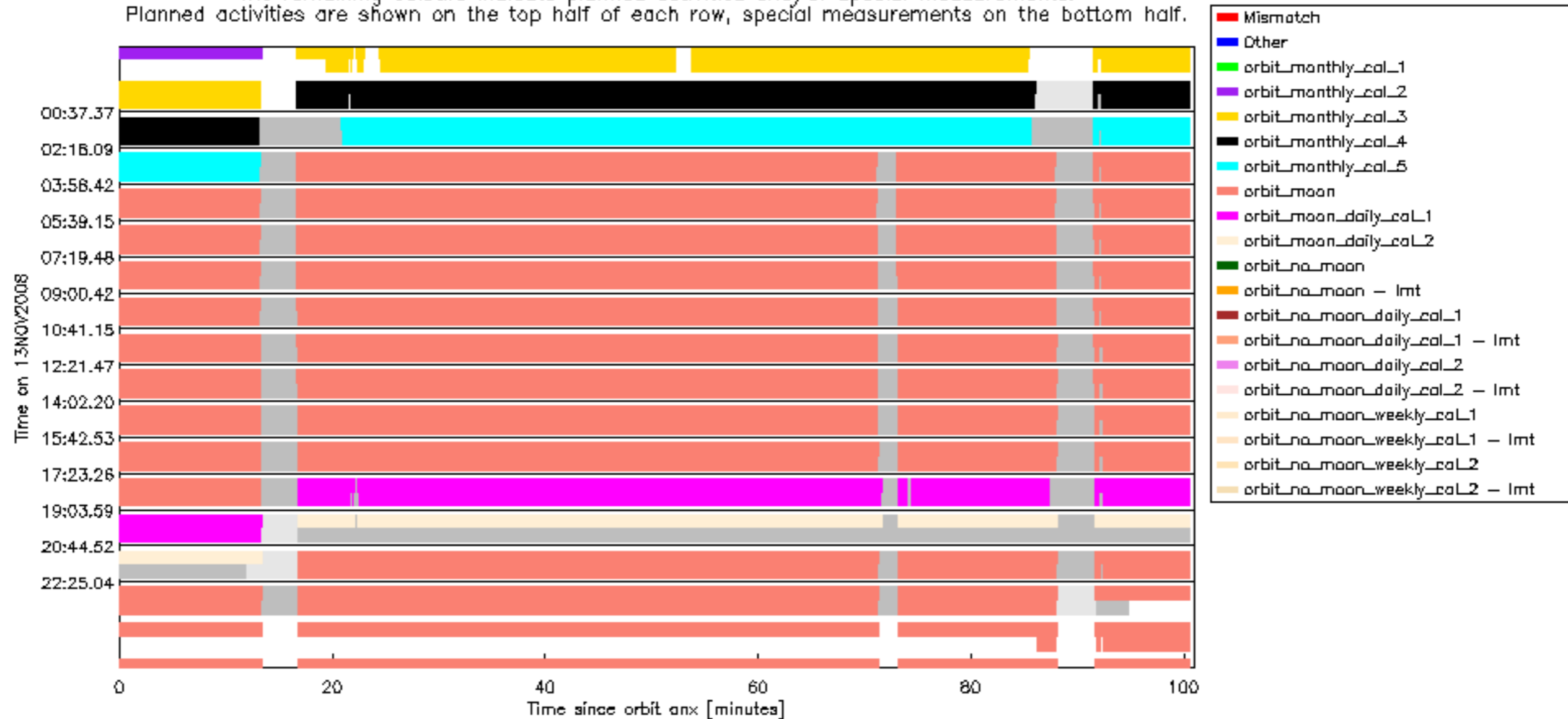


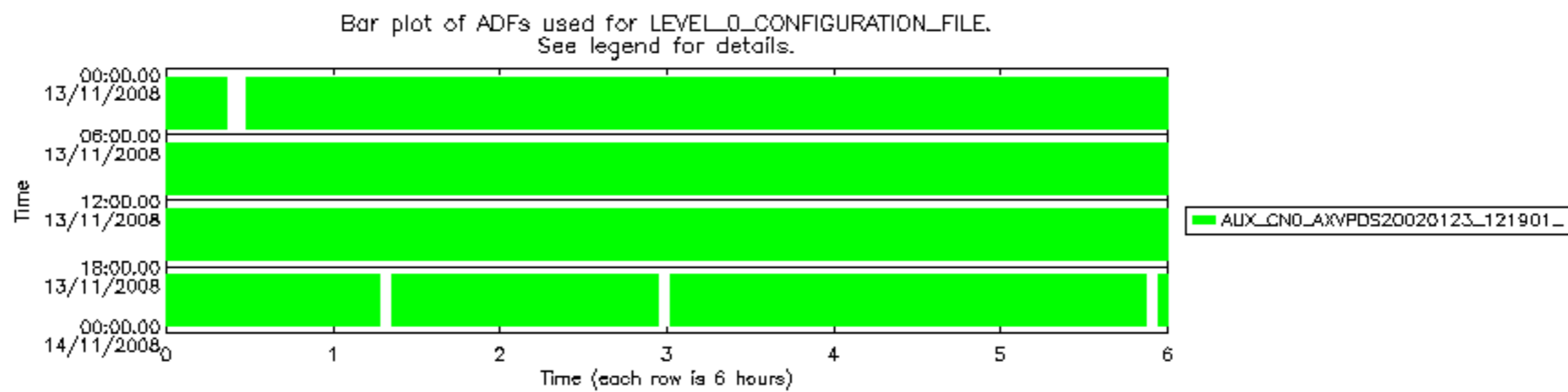






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
 Each row indicates an orbit. A light gray colour indicates the time span of 13NOV2008.
 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
 The remaining colours indicate planned activities 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 ORBIT_STATE_VECTOR_FILE.
See legend for details.

