

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	v1.4 20100407
Time of report generation	21OCT2010 10:03:41
Data source version	<Any version>
Processing scope for products	14OCT2010 00:00:00 to 15OCT2010 00:00:00
Start time of first product within scope	14OCT2010 00:25:13
Stop time of last product within scope	15OCT2010 01:28:30
Total number of Level 0 products	16
Number of Level 0 products with errors	0

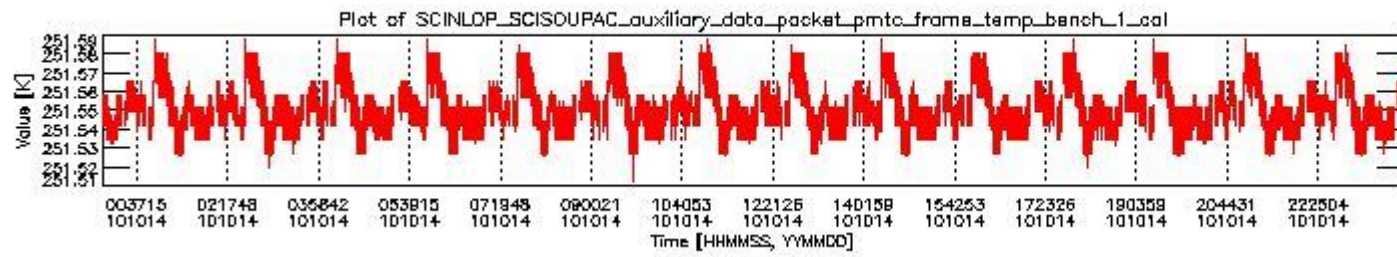
0.1.2 Summary per product

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

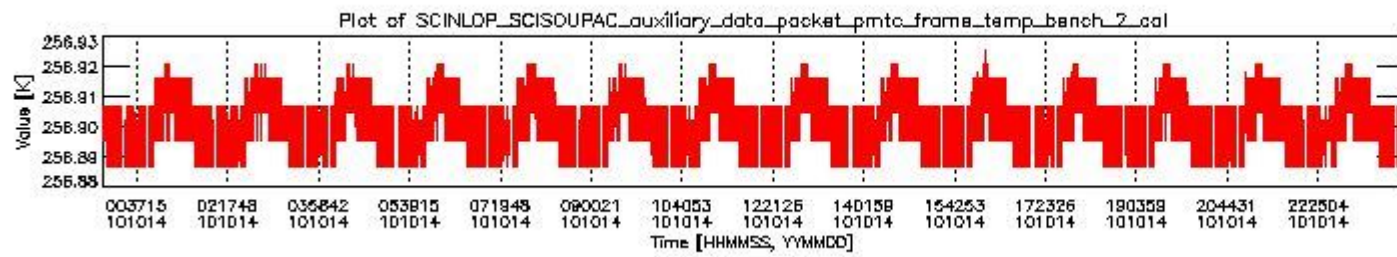
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20101014_002513_000056872093_00431_45074_1726.N1	14OCT2010 00:25:13	14OCT2010 02:00:00	0	0	0	0	0
1	SCI_NL__OPNPDE20101014_020549_000043112093_00432_45075_1727.N1	14OCT2010 02:05:49	14OCT2010 03:17:40	0	0	0	0	0
2	SCI_NL__OPNPDE20101014_031632_000061742093_00433_45076_1728.N1	14OCT2010 03:16:32	14OCT2010 04:59:25	0	0	0	0	0
3	SCI_NL__OPNPDE20101014_045817_000060922093_00434_45077_1729.N1	14OCT2010 04:58:17	14OCT2010 06:39:49	0	0	0	0	0
4	SCI_NL__OPNPDK20101014_063949_000039902093_00435_45078_2743.N1	14OCT2010 06:39:49	14OCT2010 07:46:19	0	0	0	0	0
5	SCI_NL__OPNPDK20101014_074414_000062852093_00436_45079_2744.N1	14OCT2010 07:44:14	14OCT2010 09:28:59	0	0	0	0	0
6	SCI_NL__OPNPDK20101014_092655_000059122093_00437_45080_2745.N1	14OCT2010 09:26:55	14OCT2010 11:05:27	0	0	0	0	0
7	SCI_NL__OPNPDK20101014_110431_000061482093_00438_45081_2746.N1	14OCT2010 11:04:31	14OCT2010 12:46:59	0	0	0	0	0
8	SCI_NL__OPNPDK20101014_124603_000059812093_00439_45082_2747.N1	14OCT2010 12:46:03	14OCT2010 14:25:44	0	0	0	0	0
9	SCI_NL__OPNPDK20101014_142435_000059812093_00440_45083_2748.N1	14OCT2010 14:24:35	14OCT2010 16:04:16	0	0	0	0	0
10	SCI_NL__OPNPDK20101014_160224_000058992093_00441_45084_2749.N1	14OCT2010 16:02:24	14OCT2010 17:40:43	0	0	0	0	0
11	SCI_NL__OPNPDK20101014_173946_000060362093_00442_45085_2750.N1	14OCT2010 17:39:46	14OCT2010 19:20:22	0	0	0	0	0
12	SCI_NL__OPNPDK20101014_191926_000060922093_00443_45086_2751.N1	14OCT2010 19:19:26	14OCT2010 21:00:59	0	0	0	0	0
13	SCI_NL__OPNPDE20101014_205811_000041462093_00444_45087_1730.N1	14OCT2010 20:58:11	14OCT2010 22:07:17	0	0	0	0	0
14	SCI_NL__OPNPDE20101014_221306_000060802093_00444_45087_1731.N1	14OCT2010 22:13:06	14OCT2010 23:54:26	0	0	0	0	0
15	SCI_NL__OPNPDE20101014_235343_000056872093_00445_45088_1732.N1	14OCT2010 23:53:43	15OCT2010 01:28:30	0	0	0	0	0

0.2 Product Quality Indicators

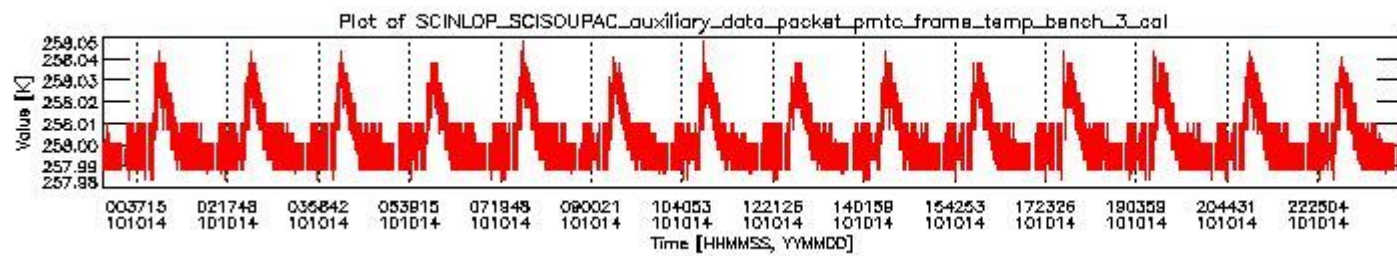
This section shows information about product quality, currently temperatures.



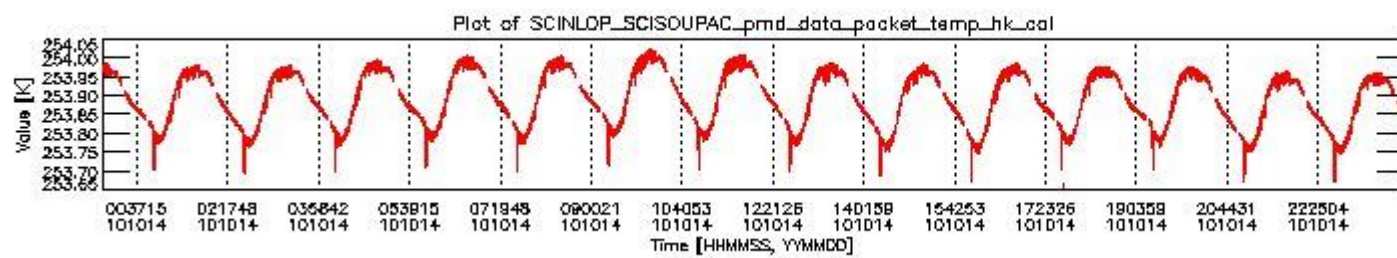
sciamachy_daily_report_level0_Any_version_20101014_0.PNG



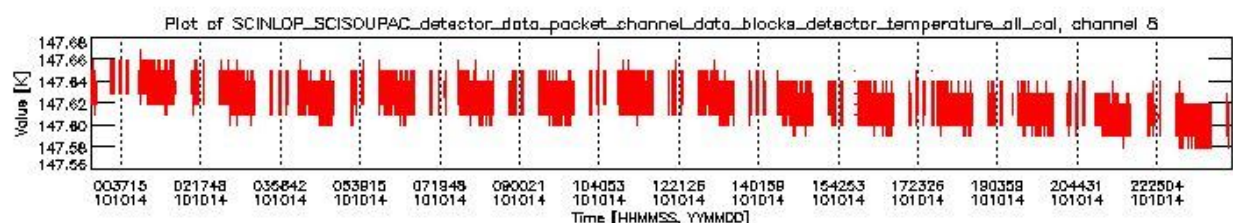
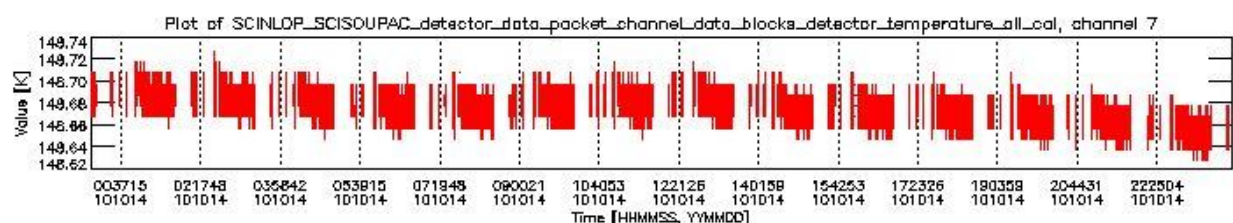
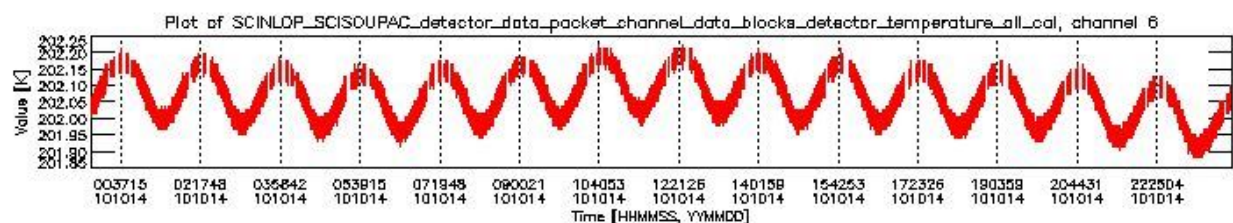
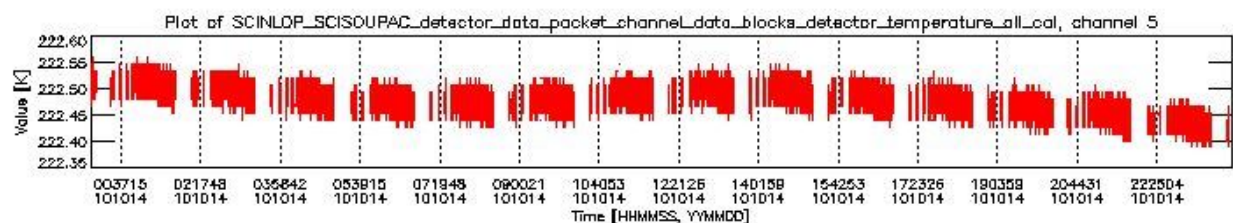
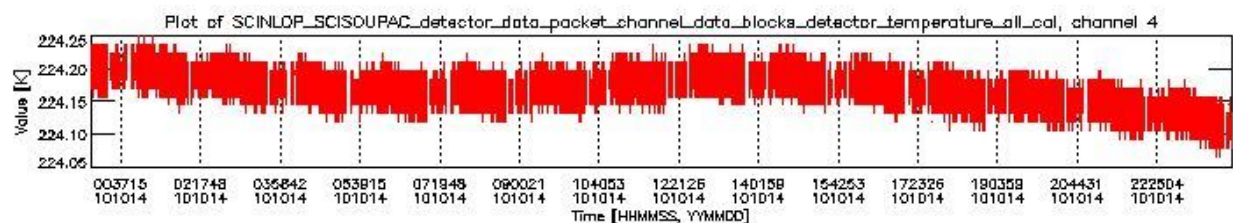
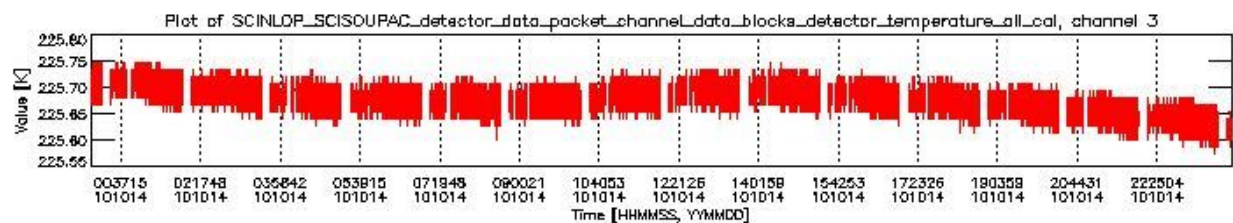
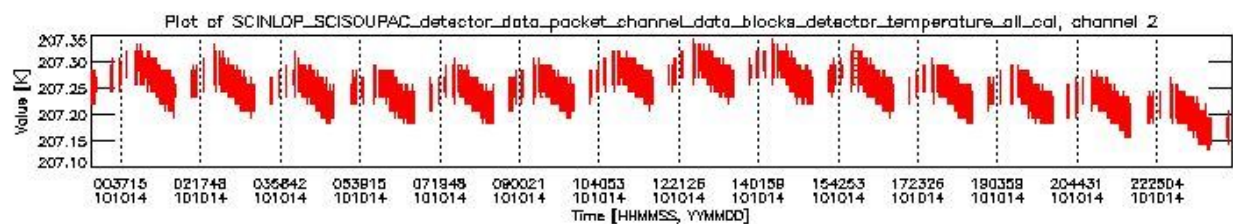
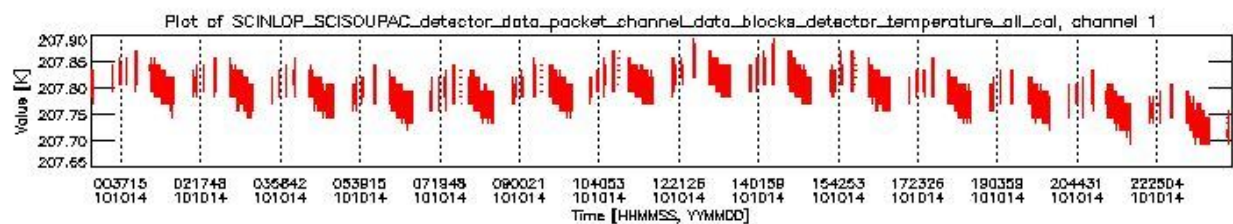
sciamachy_daily_report_level0_Any_version_20101014_1.PNG



sciamachy_daily_report_level0_Any_version_20101014_2.PNG



sciamachy_daily_report_level0_Any_version_20101014_3.PNG

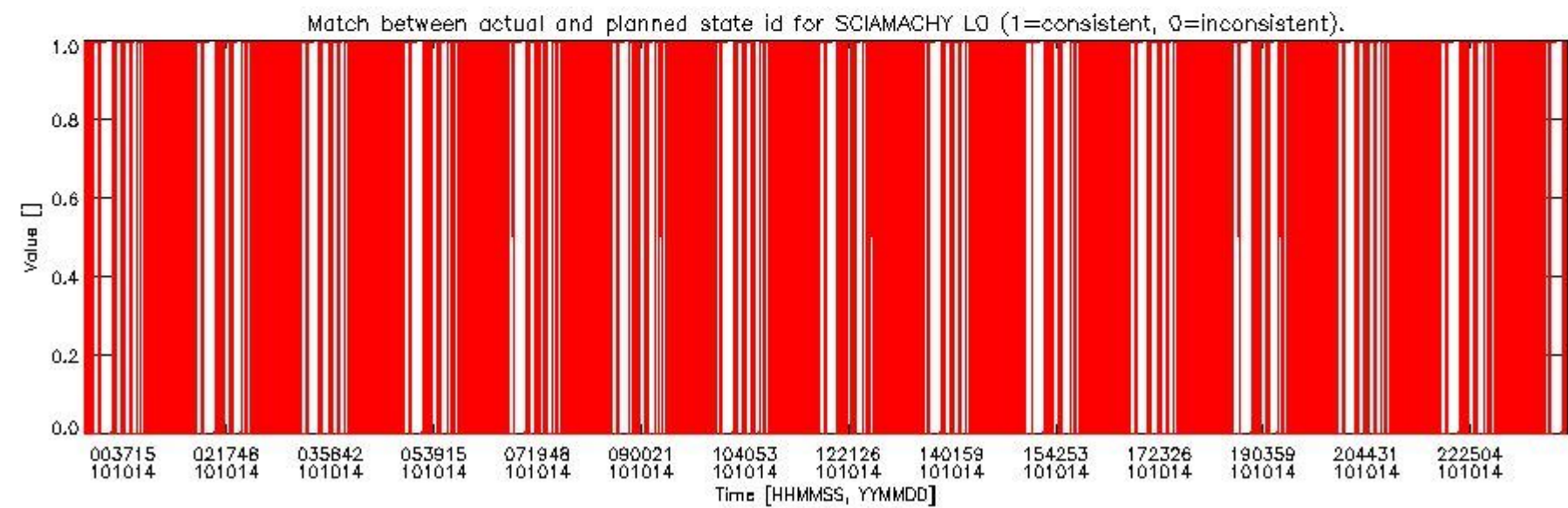
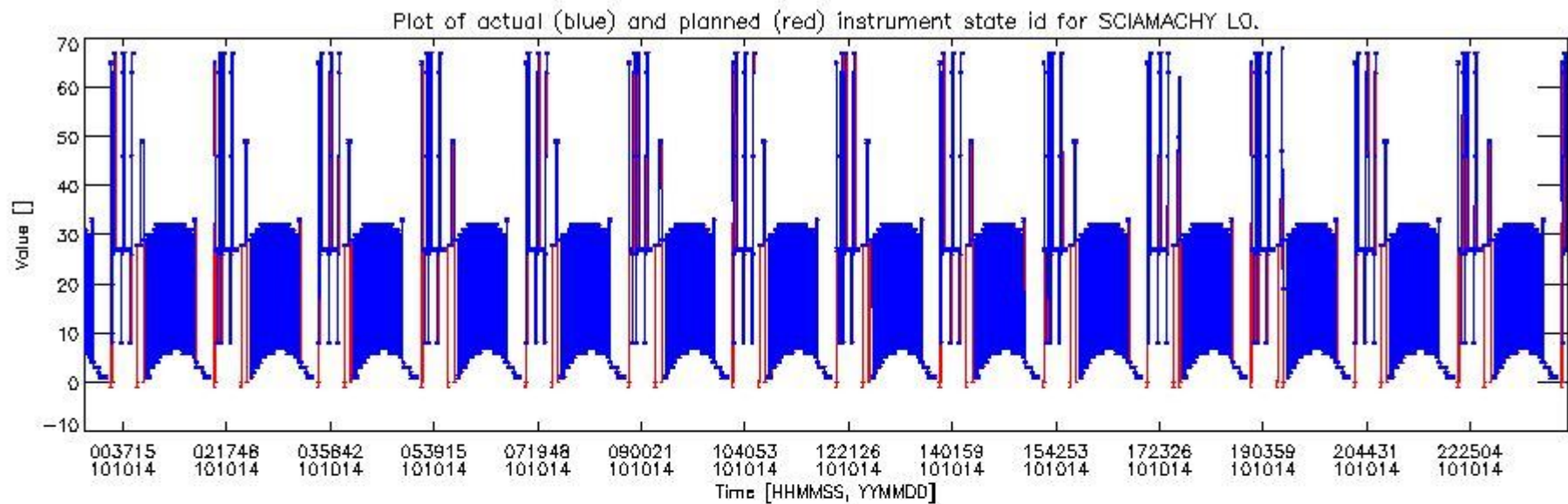


0.3 State monitoring

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: **108593**

#	Actual time	Actual value	Planned time	Planned value
0	14OCT2010 00:00:36.809046	31	14OCT2010 00:00:36.809046	6
1	14OCT2010 00:00:37.434046	31	14OCT2010 00:00:37.434046	6
2	14OCT2010 00:00:37.809046	31	14OCT2010 00:00:37.809046	6
3	14OCT2010 00:00:38.184046	31	14OCT2010 00:00:38.184046	6
4	14OCT2010 00:00:38.746546	31	14OCT2010 00:00:38.746546	6
5	14OCT2010 00:00:39.121546	31	14OCT2010 00:00:39.121546	6
6	14OCT2010 00:00:39.496546	31	14OCT2010 00:00:39.496546	6
7	14OCT2010 00:00:39.871546	31	14OCT2010 00:00:39.871546	6
8	14OCT2010 00:00:40.434046	31	14OCT2010 00:00:40.434046	6
9	14OCT2010 00:00:40.809046	31	14OCT2010 00:00:40.809046	6
10	14OCT2010 00:00:41.184046	31	14OCT2010 00:00:41.184046	6
11	14OCT2010 00:00:41.559046	31	14OCT2010 00:00:41.559046	6
12	14OCT2010 00:00:41.809046	31	14OCT2010 00:00:41.809046	6
13	14OCT2010 00:00:42.121546	31	14OCT2010 00:00:42.121546	6
14	14OCT2010 00:00:42.496546	31	14OCT2010 00:00:42.496546	6
15	14OCT2010 00:00:42.871546	31	14OCT2010 00:00:42.871546	6
16	14OCT2010 00:00:43.246546	31	14OCT2010 00:00:43.246546	6
17	14OCT2010 00:00:43.809046	31	14OCT2010 00:00:43.809046	6
18	14OCT2010 00:00:44.184046	31	14OCT2010 00:00:44.184046	6
19	14OCT2010 00:00:44.559046	31	14OCT2010 00:00:44.559046	6
...

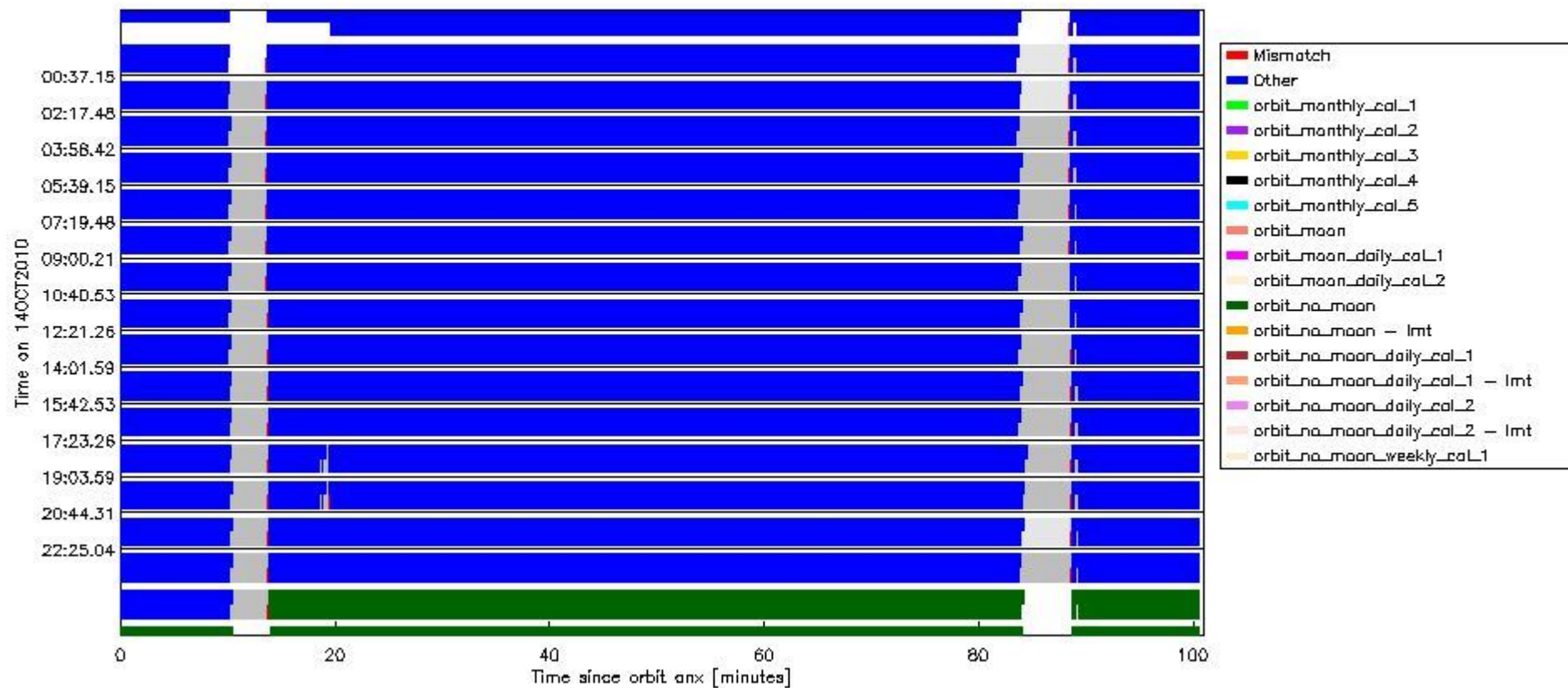


sciamachy_daily_report_level0_Any_version_20101014_5.PNG

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 14OCT2010.
 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_Any_version_20101014_6.PNG

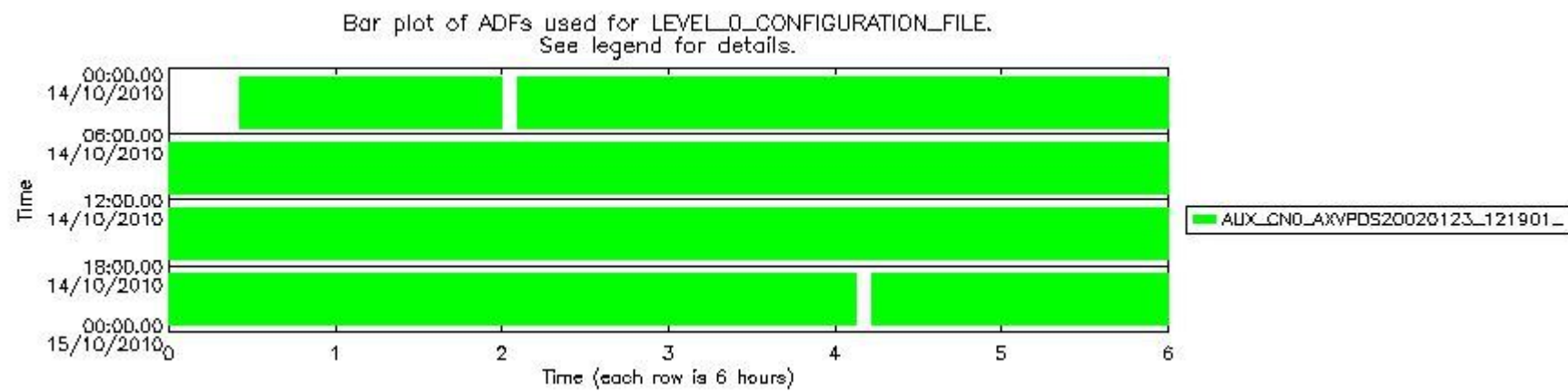
0.4 ADF monitoring

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

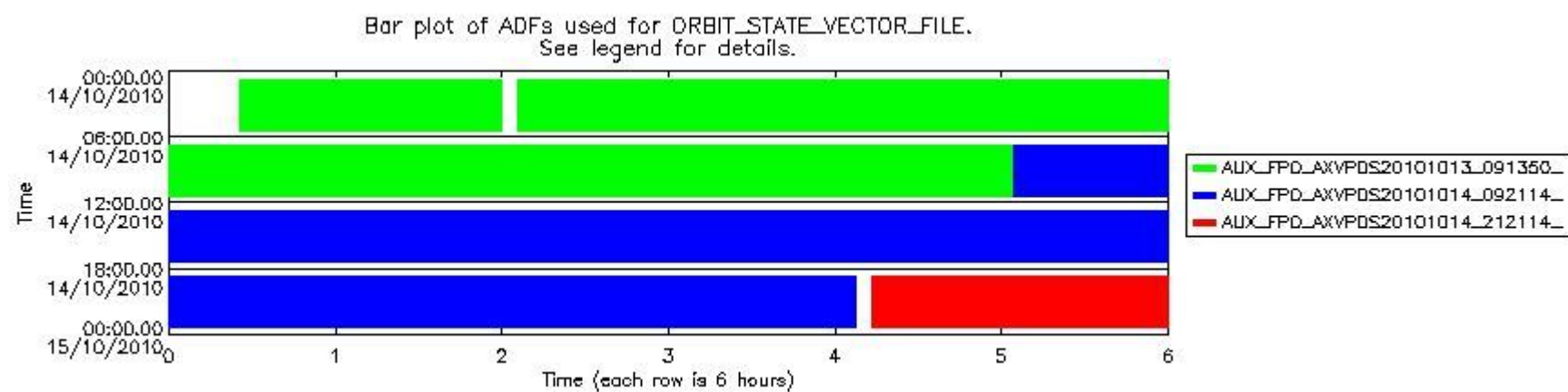
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

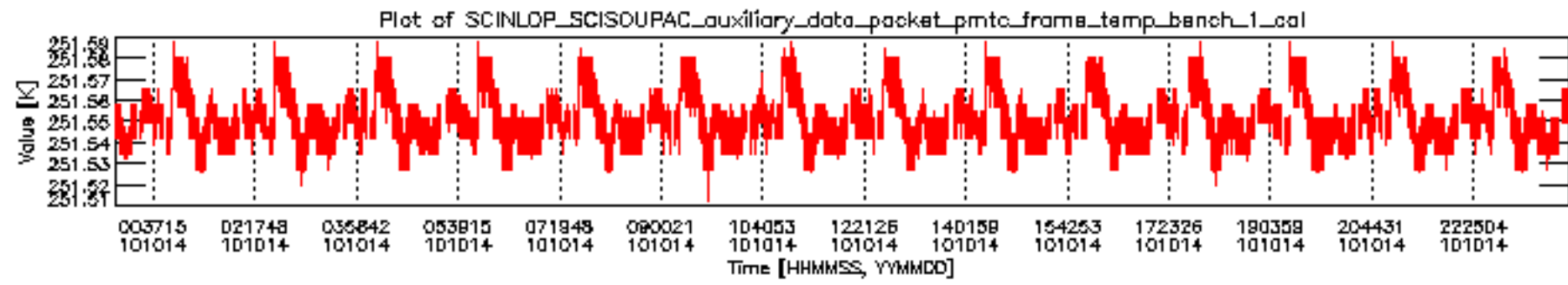
Number	ADF
	CN0 (LEVEL_0_CONFIGURATION_FILE)
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	FPO (ORBIT_STATE_VECTOR_FILE)
1	AUX_FPO_AXVPDS20101013_091350_20101012_182634_20101022_213321
2	AUX_FPO_AXVPDS20101014_092114_20101013_193533_20101023_210144
3	AUX_FPO_AXVPDS20101014_212114_20101014_090020_20101023_192108

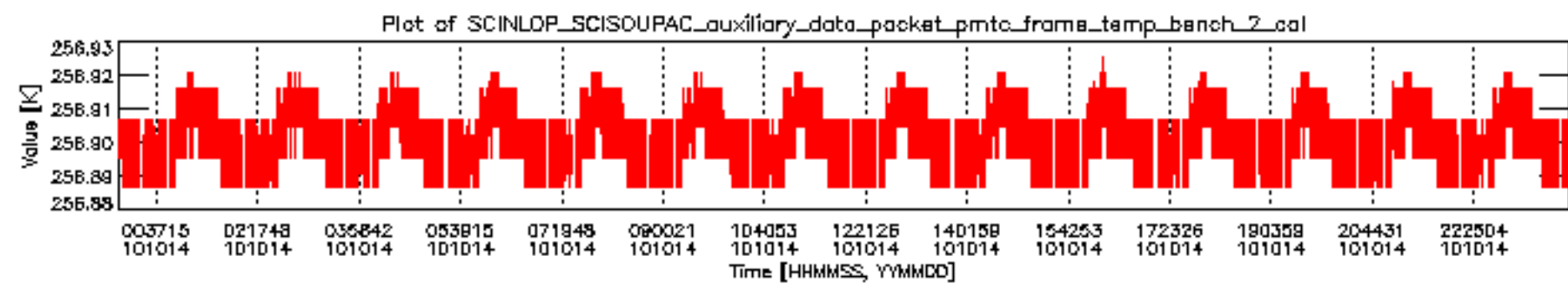


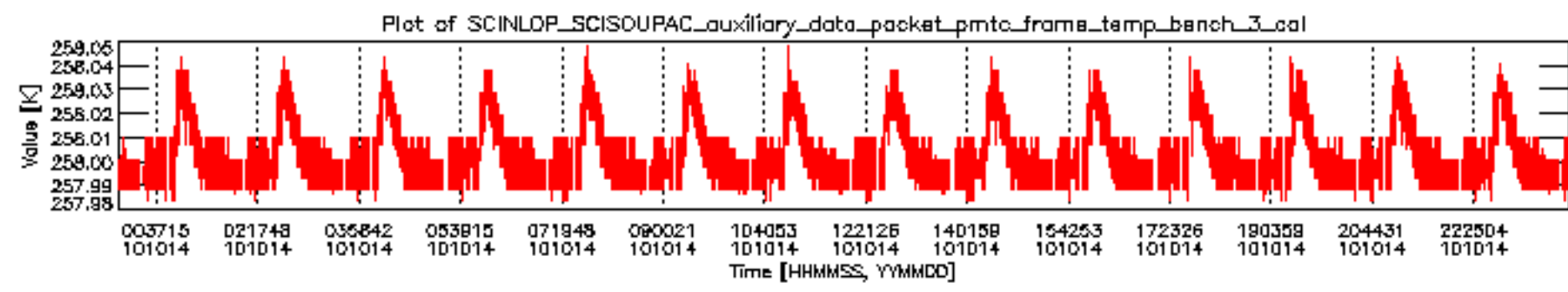
sciamachy_daily_report_level0_Any_version_20101014_7.PNG

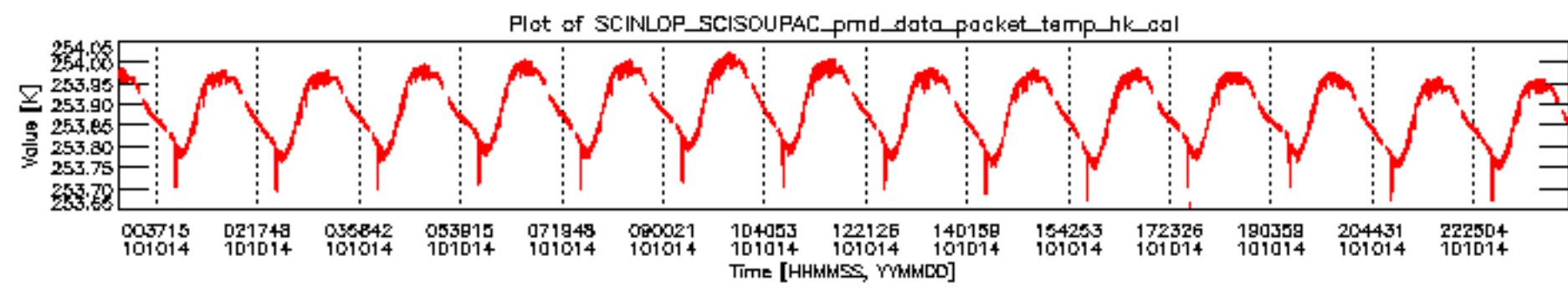


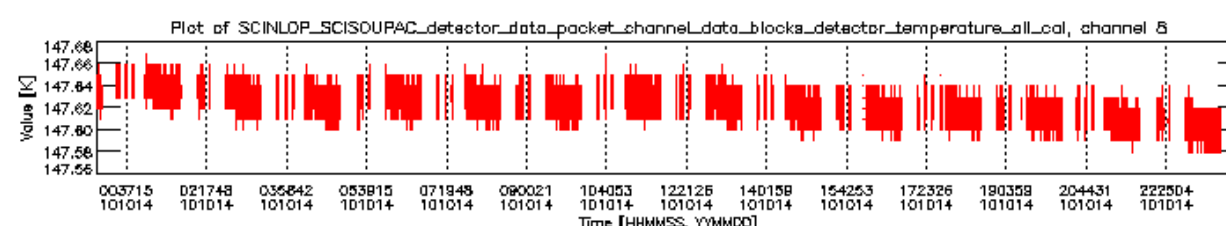
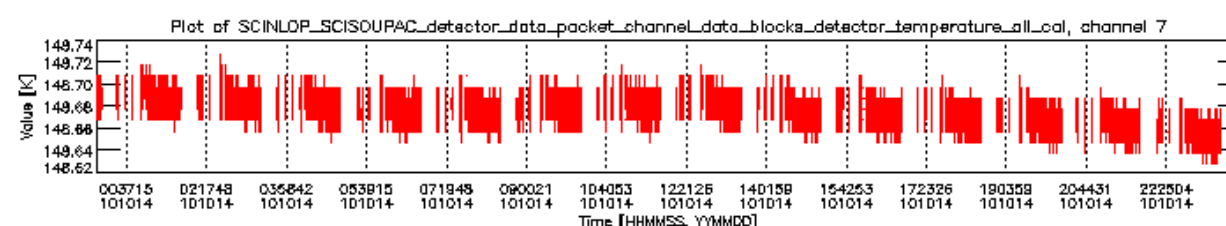
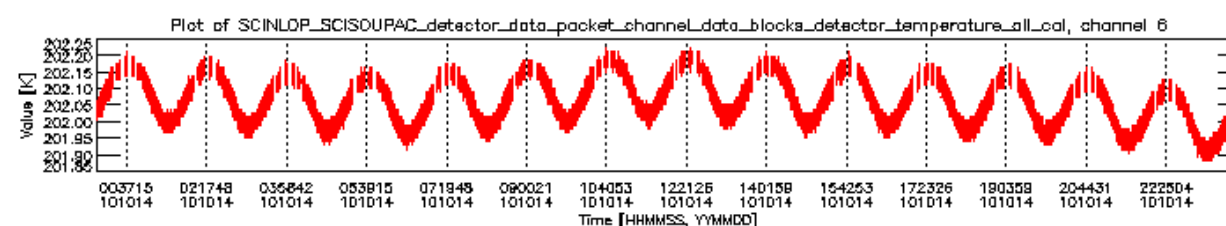
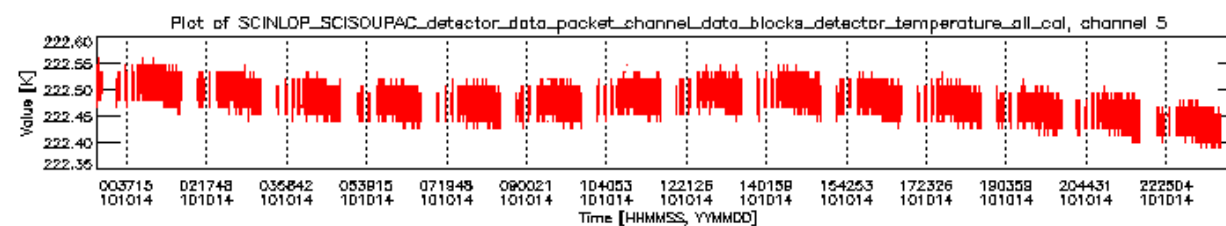
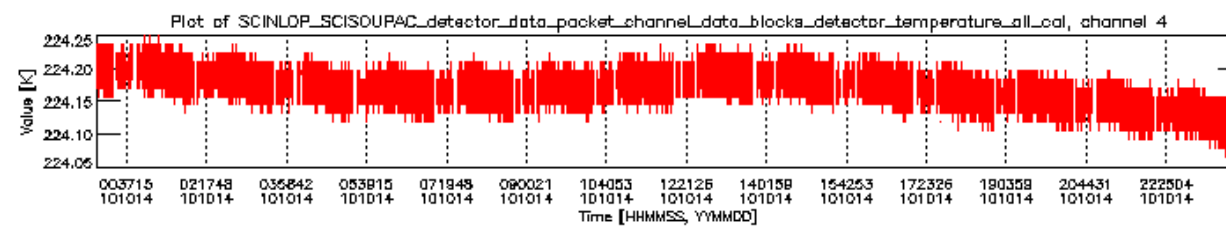
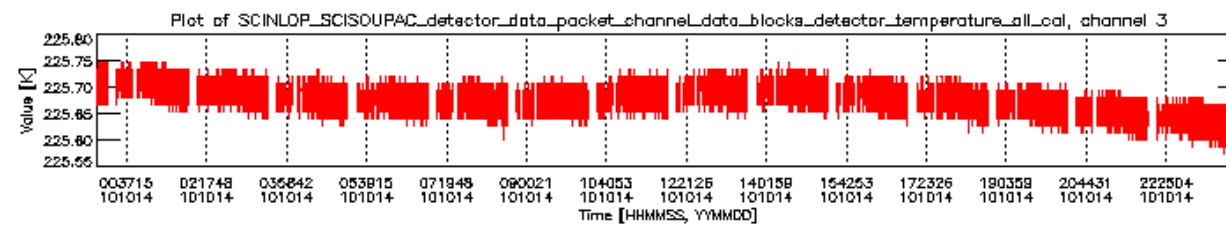
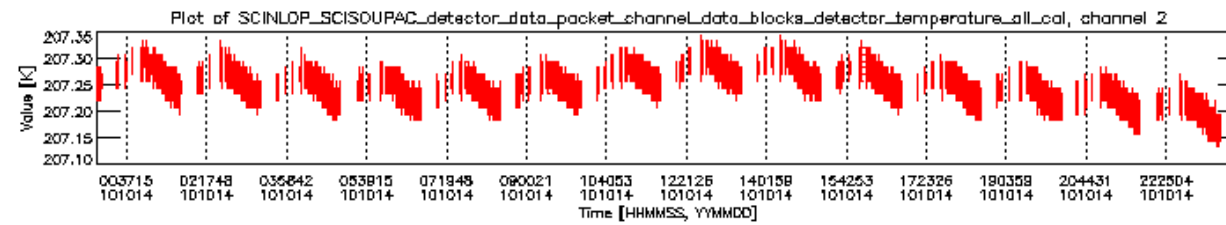
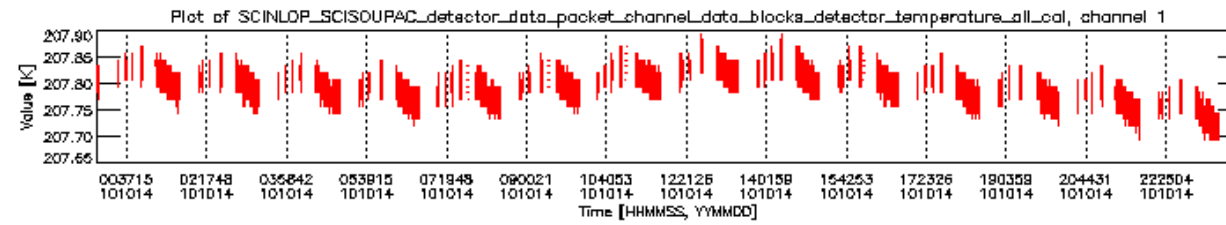
sciamachy_daily_report_level0_Any_version_20101014_8.PNG



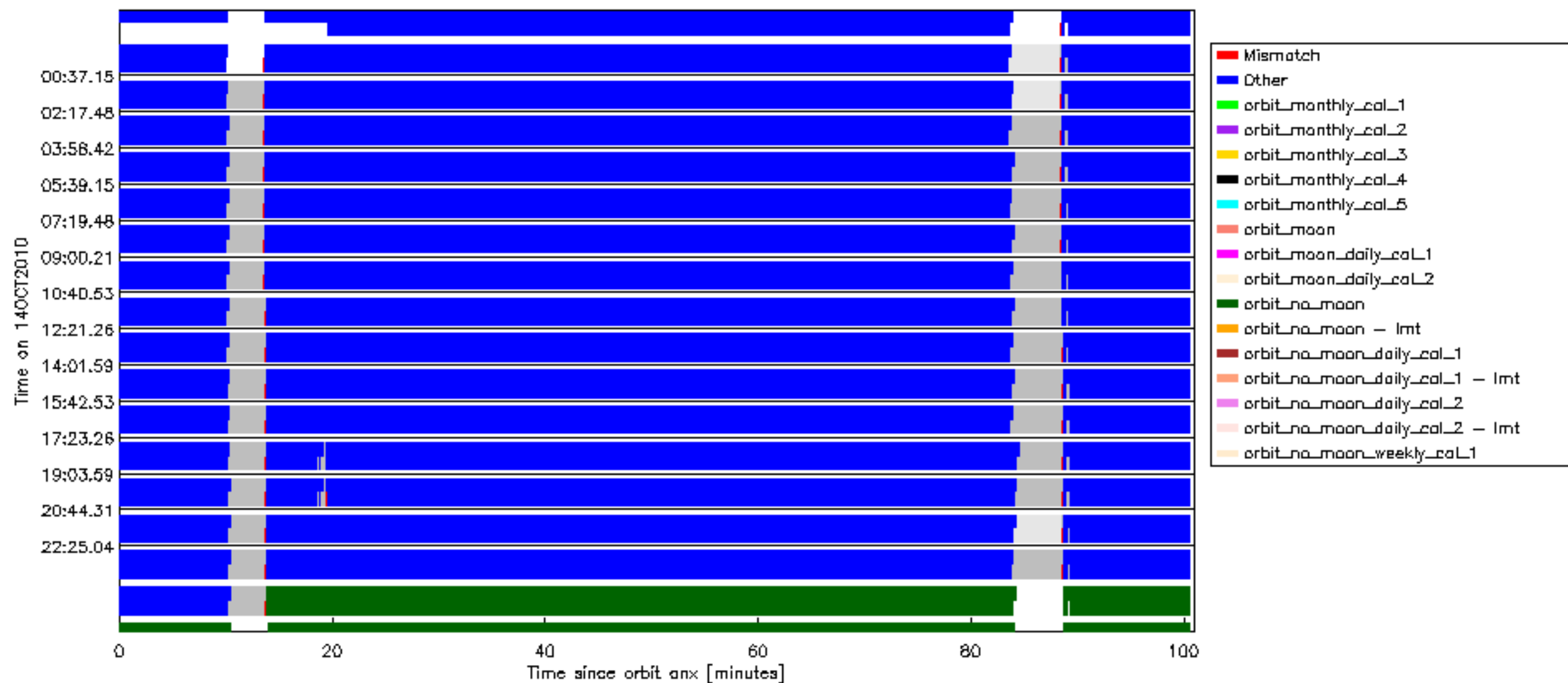


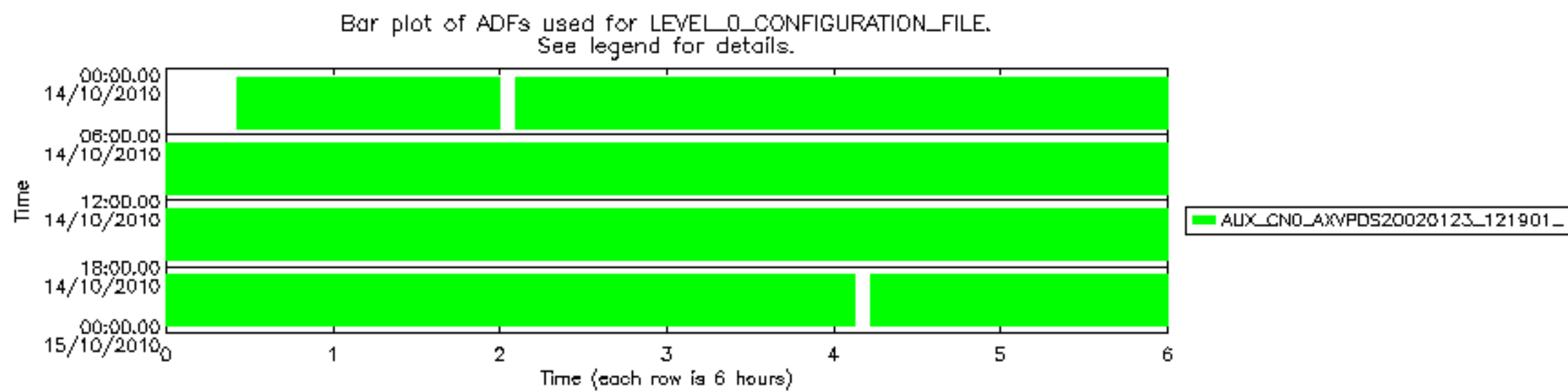




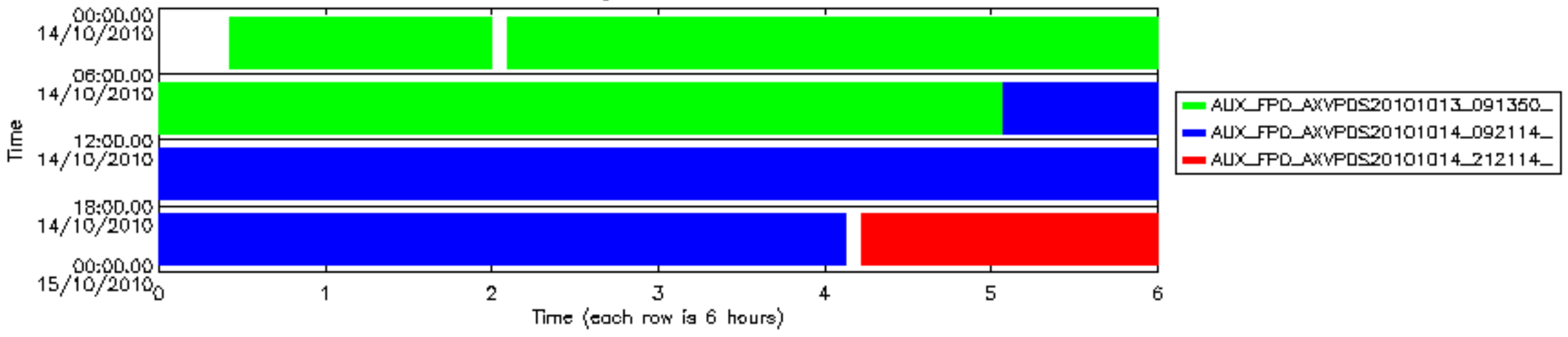


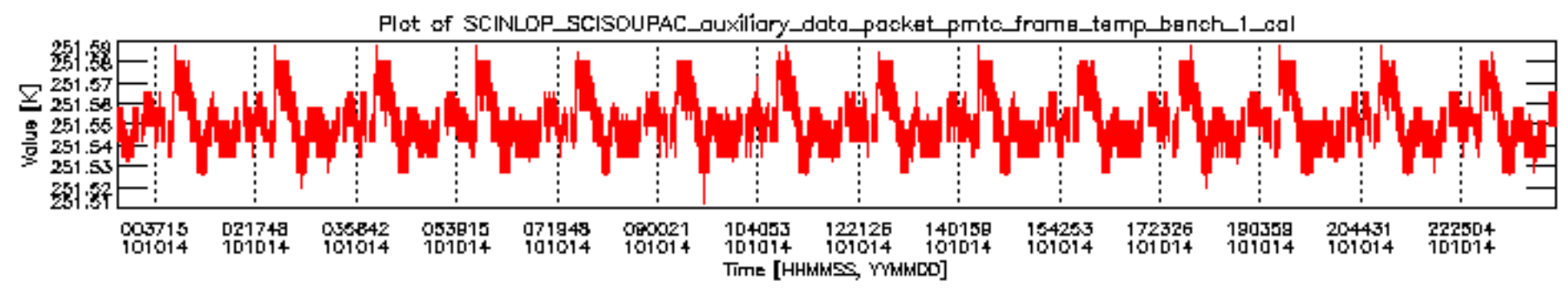
Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
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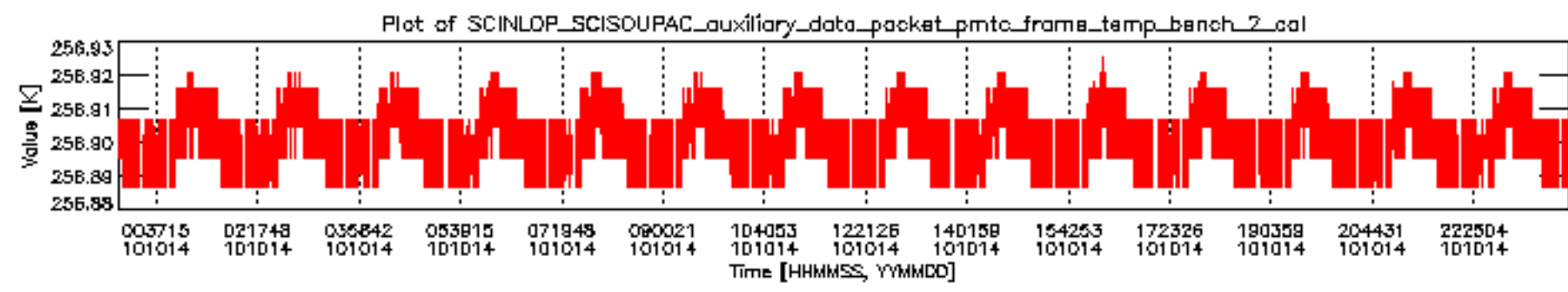


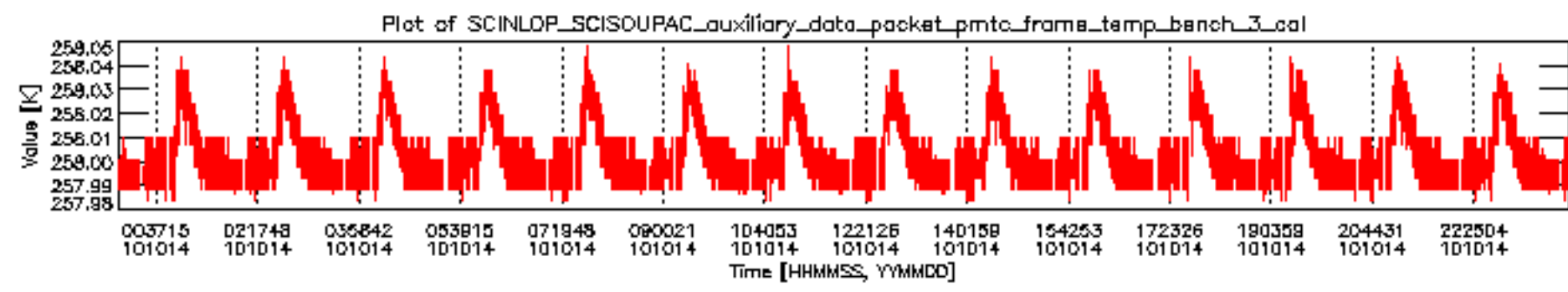


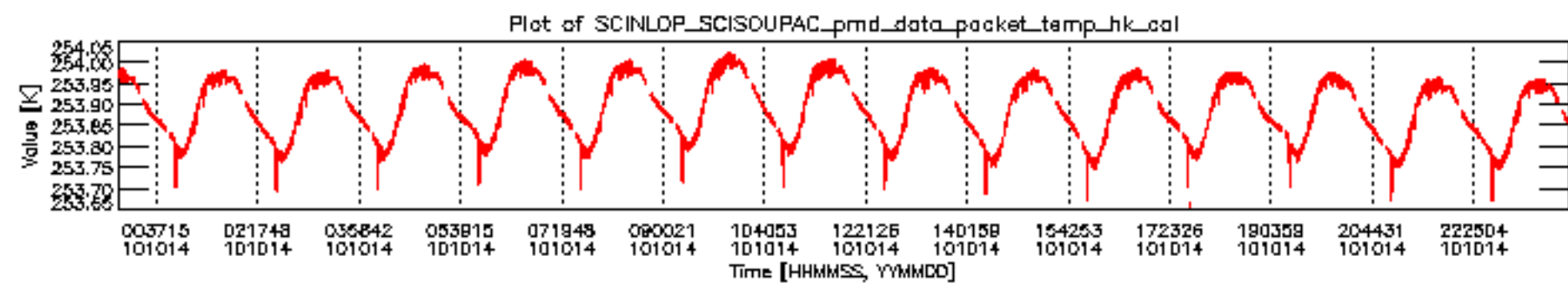
Bar plot of ADFs used for ORBIT_STATE_VECTOR_FILE.
See legend for details.

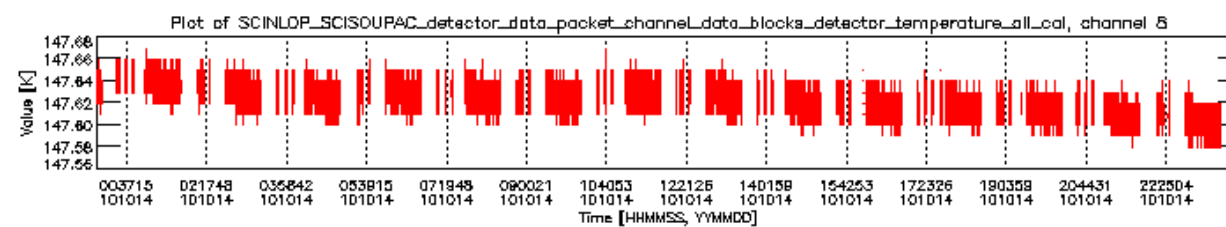
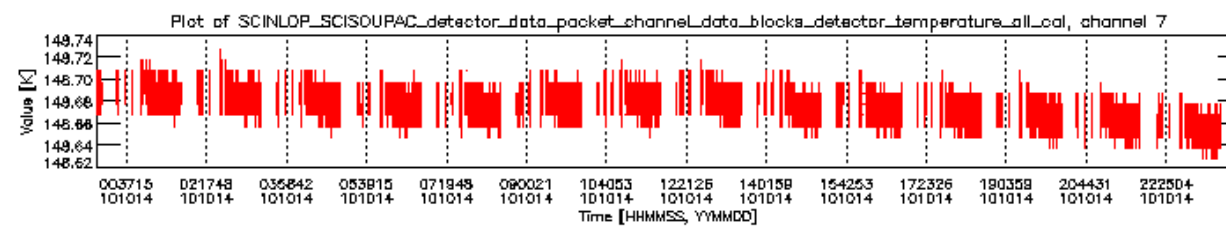
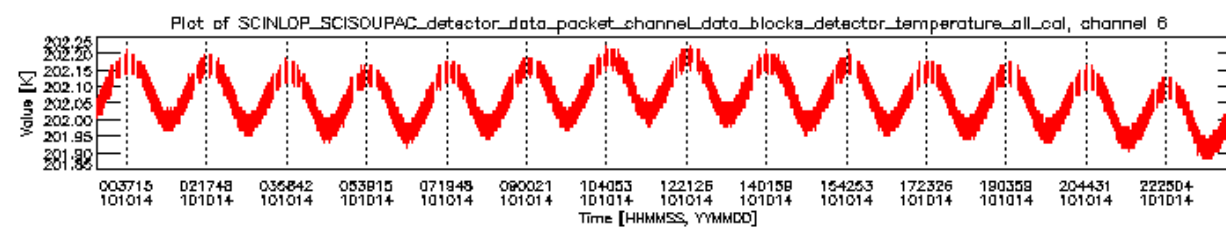
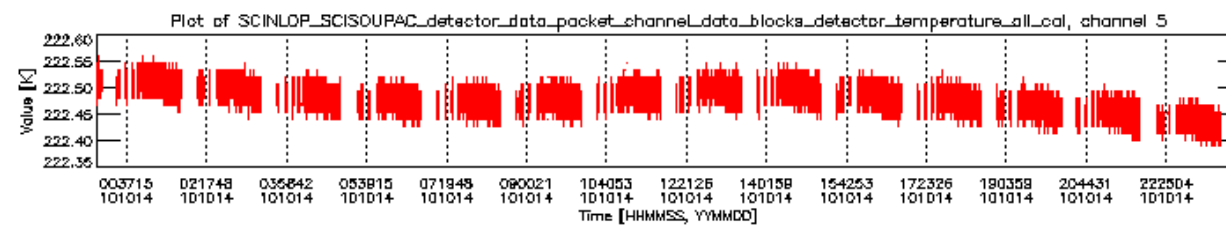
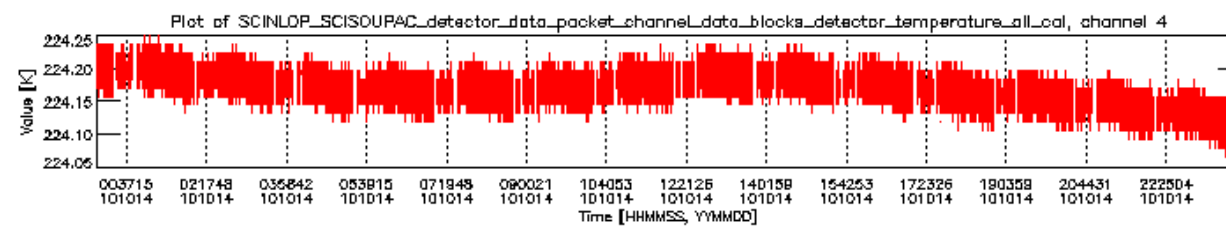
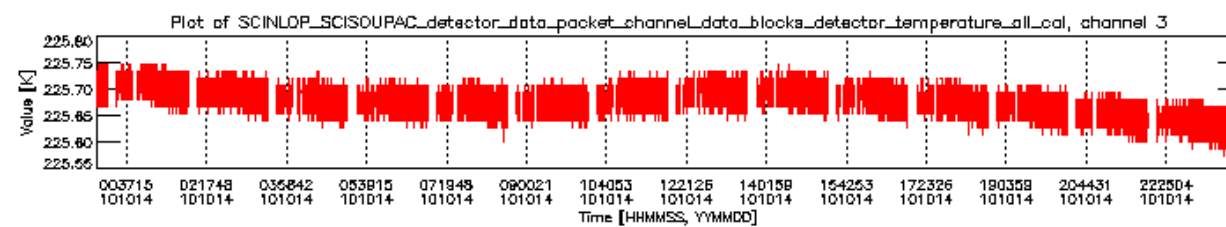
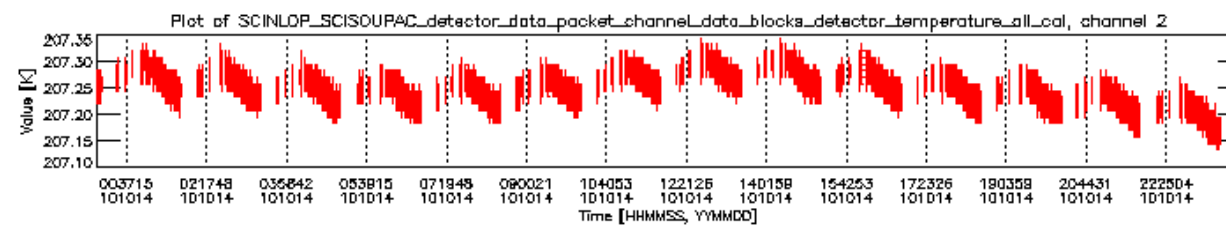
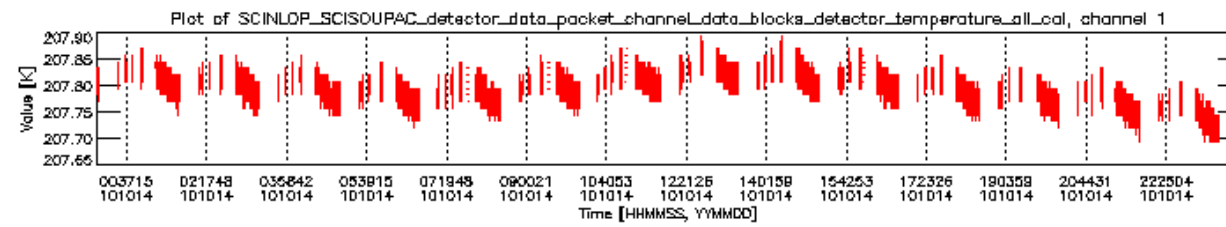












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