

## 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	23OCT2011 02:54:47
Data source version	KSPT_L0/4504-N
Processing scope for products	16OCT2011 00:00:00 to 17OCT2011 00:00:00
Start time of first product within scope	16OCT2011 00:29:45
Stop time of last product within scope	17OCT2011 01:27:13
Total number of Level 0 products	16
Number of Level 0 products with errors	0

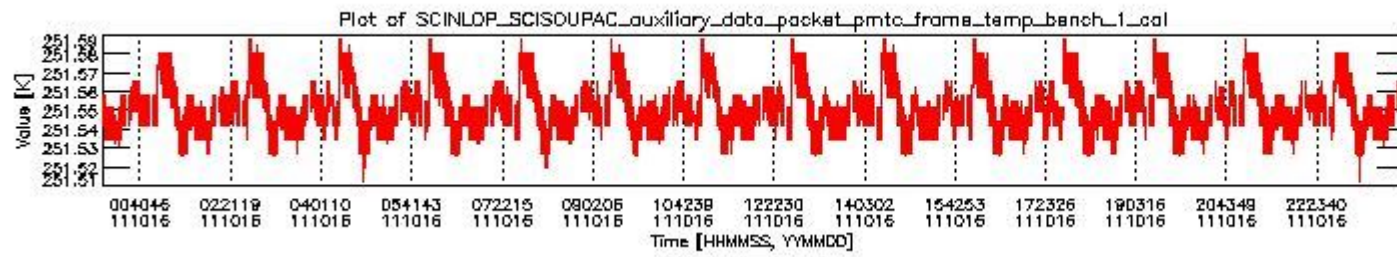
### 0.1.2 Summary per product

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

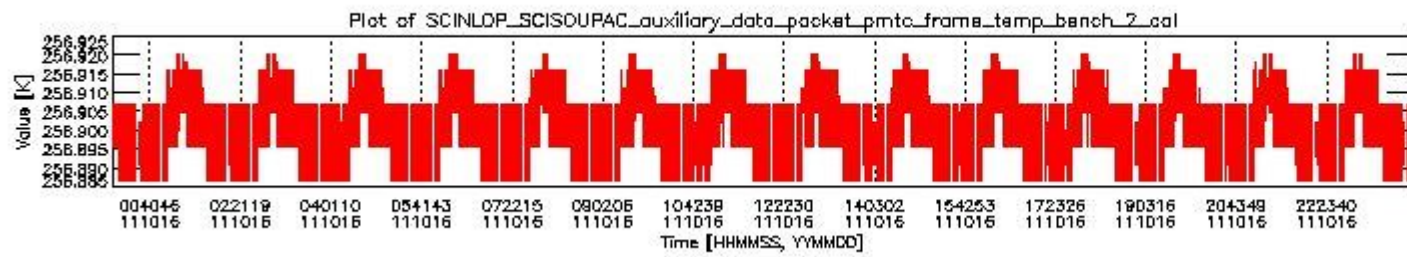
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20111016_002945_000056453107_00332_50346_7336.N1	16OCT2011 00:29:45	16OCT2011 02:03:51	0	0	0	0	0
1	SCI_NL__OPNPDE20111016_020351_000045953107_00333_50347_7337.N1	16OCT2011 02:03:51	16OCT2011 03:20:26	0	0	0	0	0
2	SCI_NL__OPNPDE20111016_031917_000061393107_00334_50348_7338.N1	16OCT2011 03:19:17	16OCT2011 05:01:36	0	0	0	0	0
3	SCI_NL__OPNPDE20111016_050136_000060153107_00335_50349_7339.N1	16OCT2011 05:01:36	16OCT2011 06:41:51	0	0	0	0	0
4	SCI_NL__OPNPDK20111016_064151_000039553107_00336_50350_6125.N1	16OCT2011 06:41:51	16OCT2011 07:47:46	0	0	0	0	0
5	SCI_NL__OPNPDK20111016_074650_000062633107_00337_50351_6126.N1	16OCT2011 07:46:50	16OCT2011 09:31:13	0	0	0	0	0
6	SCI_NL__OPNPDK20111016_092908_000060143107_00338_50352_6127.N1	16OCT2011 09:29:08	16OCT2011 11:09:23	0	0	0	0	0
7	SCI_NL__OPNPDK20111016_110718_000060143107_00339_50353_6128.N1	16OCT2011 11:07:18	16OCT2011 12:47:33	0	0	0	0	0
8	SCI_NL__OPNPDK20111016_124637_000060023107_00340_50354_6129.N1	16OCT2011 12:46:37	16OCT2011 14:26:39	0	0	0	0	0
9	SCI_NL__OPNPDK20111016_142543_000059033107_00341_50355_6130.N1	16OCT2011 14:25:43	16OCT2011 16:04:06	0	0	0	0	0
10	SCI_NL__OPNPDK20111016_160310_000059563107_00342_50356_6131.N1	16OCT2011 16:03:10	16OCT2011 17:42:25	0	0	0	0	0
11	SCI_NL__OPNPDK20111016_174106_000059583107_00343_50357_6132.N1	16OCT2011 17:41:06	16OCT2011 19:20:24	0	0	0	0	0
12	SCI_NL__OPNPDK20111016_191928_000059033107_00344_50358_6133.N1	16OCT2011 19:19:28	16OCT2011 20:57:51	0	0	0	0	0
13	SCI_NL__OPNPDE20111016_205751_000041333107_00345_50359_7340.N1	16OCT2011 20:57:51	16OCT2011 22:06:44	0	0	0	0	0
14	SCI_NL__OPNPDE20111016_221209_000060583107_00345_50359_7341.N1	16OCT2011 22:12:09	16OCT2011 23:53:07	0	0	0	0	0
15	SCI_NL__OPNPDE20111016_235224_000056893107_00346_50360_7342.N1	16OCT2011 23:52:24	17OCT2011 01:27:13	0	0	0	0	0

## 0.2 Product Quality Indicators

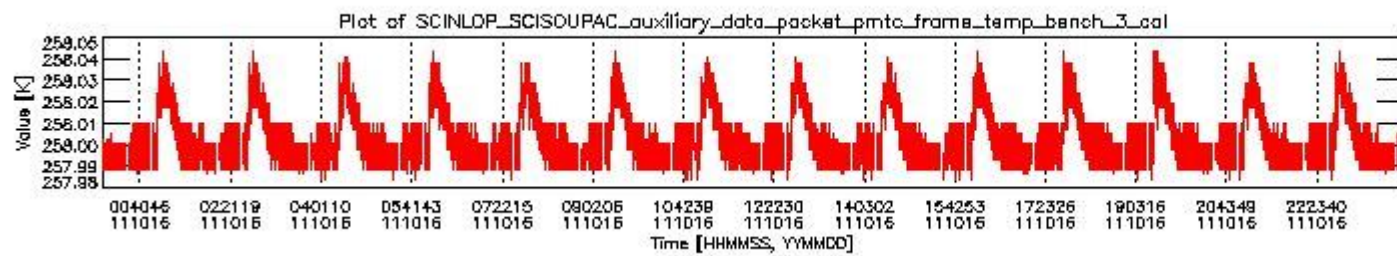
This section shows information about product quality, currently temperatures.



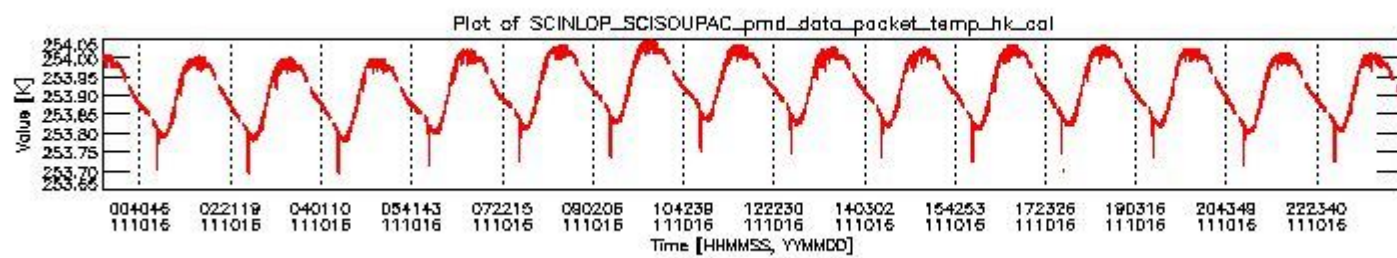
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111016\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111016\_1.PNG

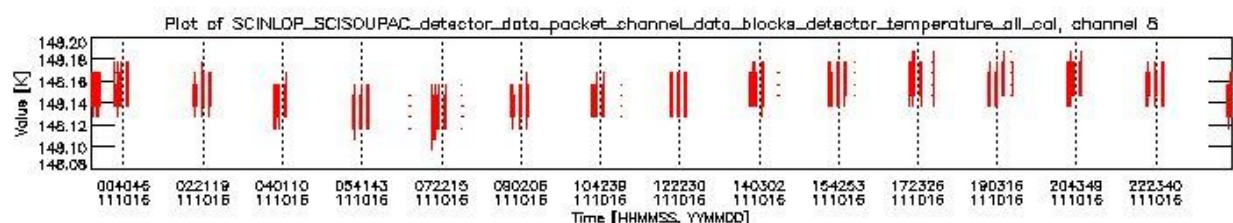
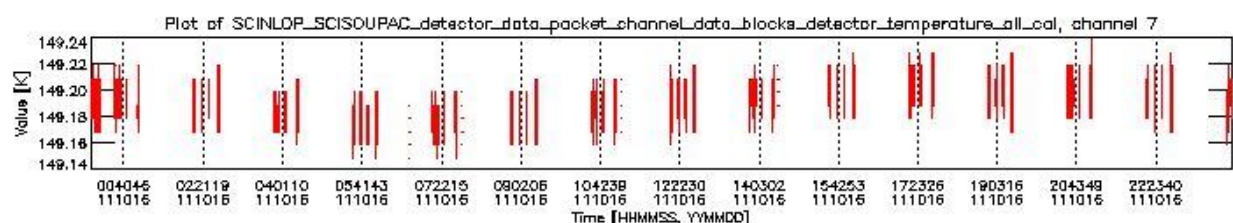
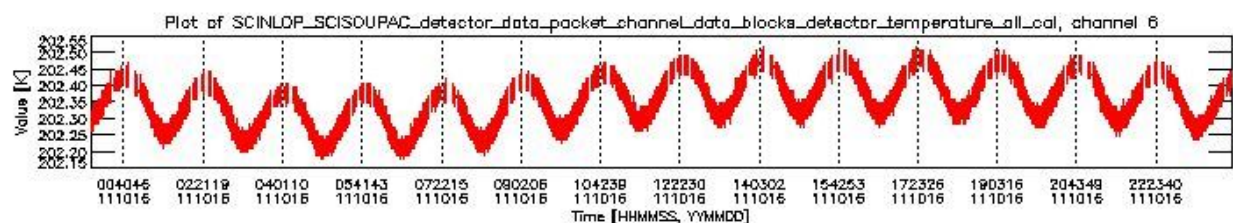
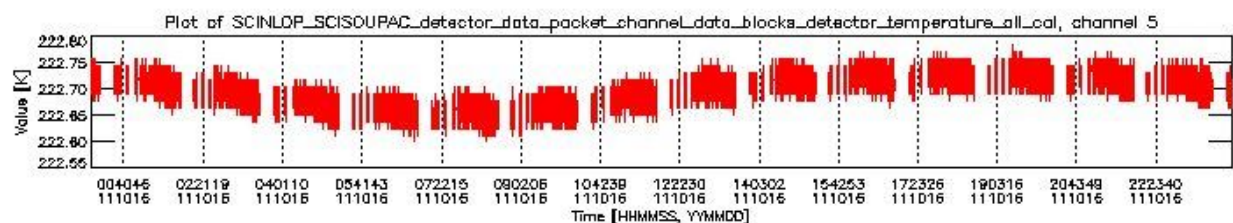
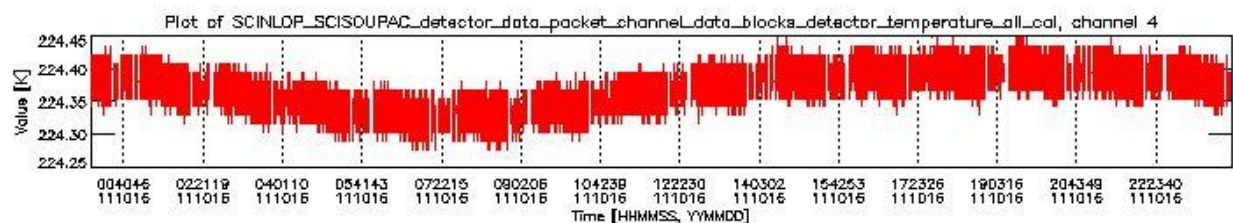
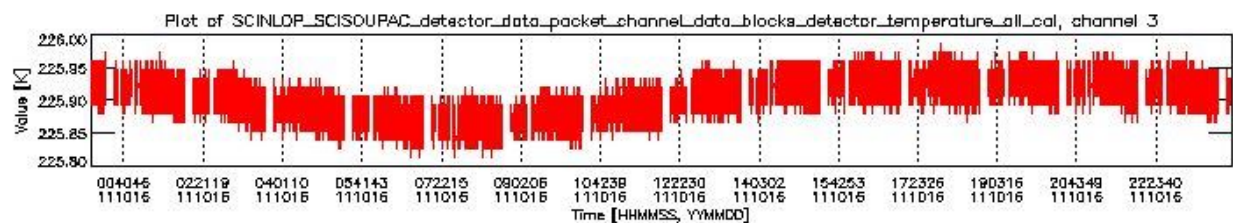
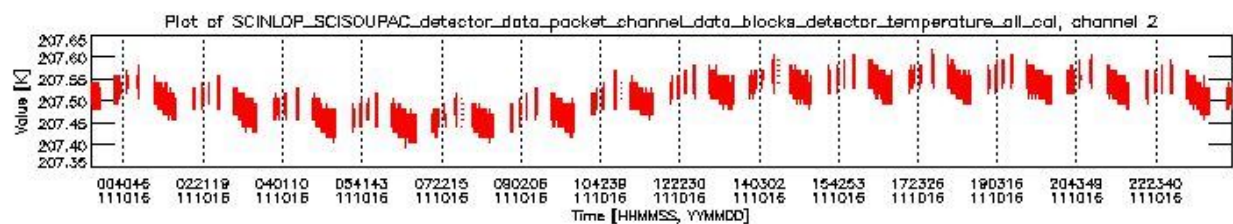
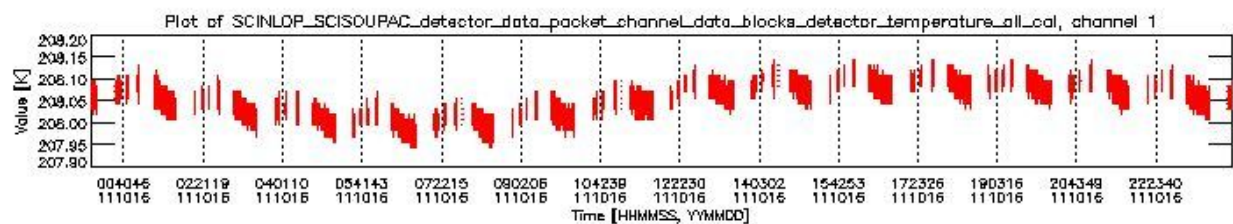


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111016\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111016\_3.PNG



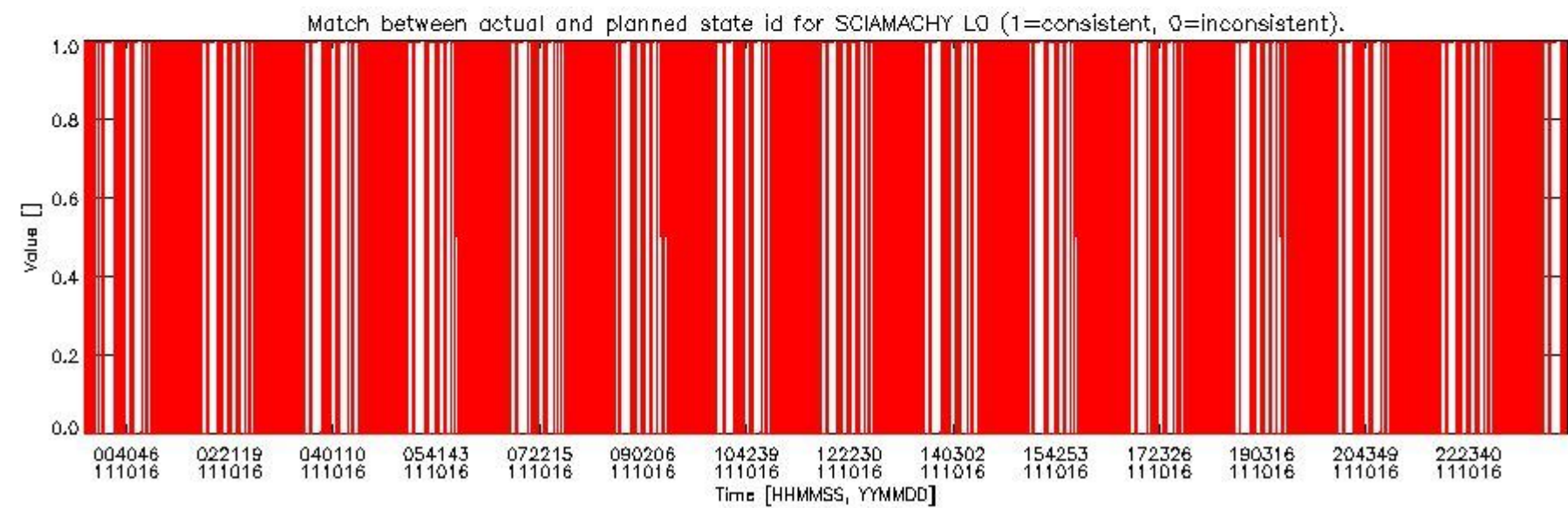
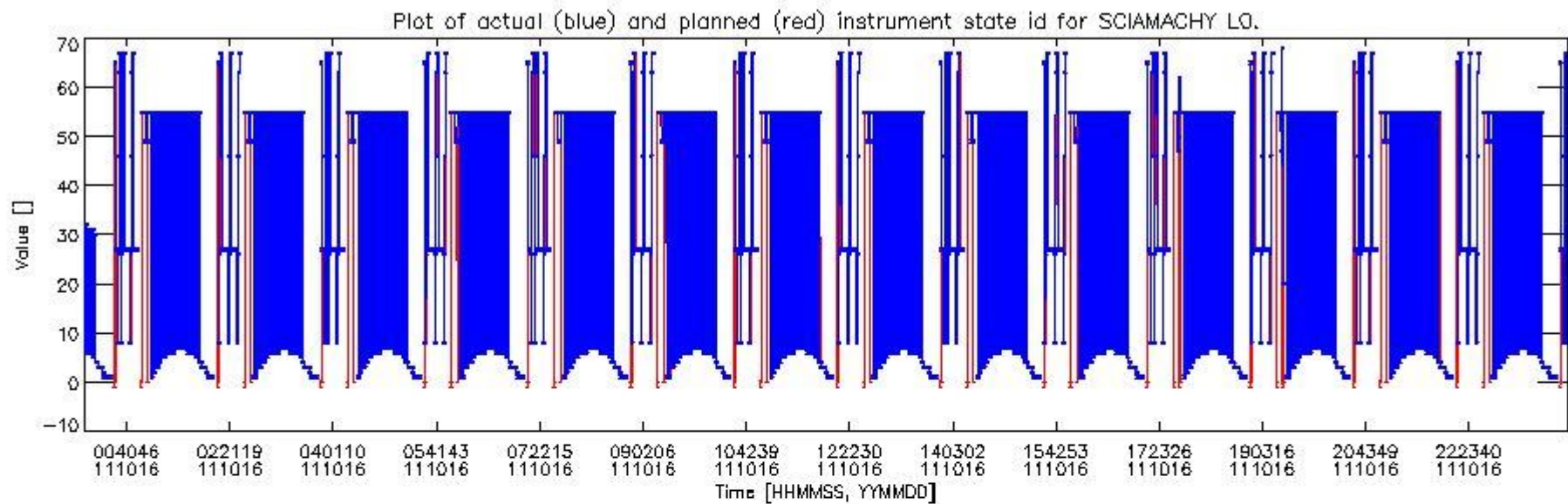


### 0.3 State monitoring

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: **53297**

#	Actual time	Actual value	Planned time	Planned value
0	16OCT2011 00:00:17.771440	6	16OCT2011 00:00:17.771440	32
1	16OCT2011 00:00:18.146440	6	16OCT2011 00:00:18.146440	32
2	16OCT2011 00:00:18.396440	6	16OCT2011 00:00:18.396440	32
3	16OCT2011 00:00:18.646440	6	16OCT2011 00:00:18.646440	32
4	16OCT2011 00:00:18.896440	6	16OCT2011 00:00:18.896440	32
5	16OCT2011 00:00:19.146440	6	16OCT2011 00:00:19.146440	32
6	16OCT2011 00:00:19.396440	6	16OCT2011 00:00:19.396440	32
7	16OCT2011 00:00:19.646440	6	16OCT2011 00:00:19.646440	32
8	16OCT2011 00:00:19.896440	6	16OCT2011 00:00:19.896440	32
9	16OCT2011 00:00:20.146440	6	16OCT2011 00:00:20.146440	32
10	16OCT2011 00:00:20.396440	6	16OCT2011 00:00:20.396440	32
11	16OCT2011 00:00:20.646440	6	16OCT2011 00:00:20.646440	32
12	16OCT2011 00:00:20.896440	6	16OCT2011 00:00:20.896440	32
13	16OCT2011 00:00:21.146440	6	16OCT2011 00:00:21.146440	32
14	16OCT2011 00:00:21.396440	6	16OCT2011 00:00:21.396440	32
15	16OCT2011 00:00:21.646440	6	16OCT2011 00:00:21.646440	32
16	16OCT2011 00:00:21.896440	6	16OCT2011 00:00:21.896440	32
17	16OCT2011 00:00:22.146440	6	16OCT2011 00:00:22.146440	32
18	16OCT2011 00:00:22.396440	6	16OCT2011 00:00:22.396440	32
19	16OCT2011 00:00:22.646440	6	16OCT2011 00:00:22.646440	32
...	...	...	...	...



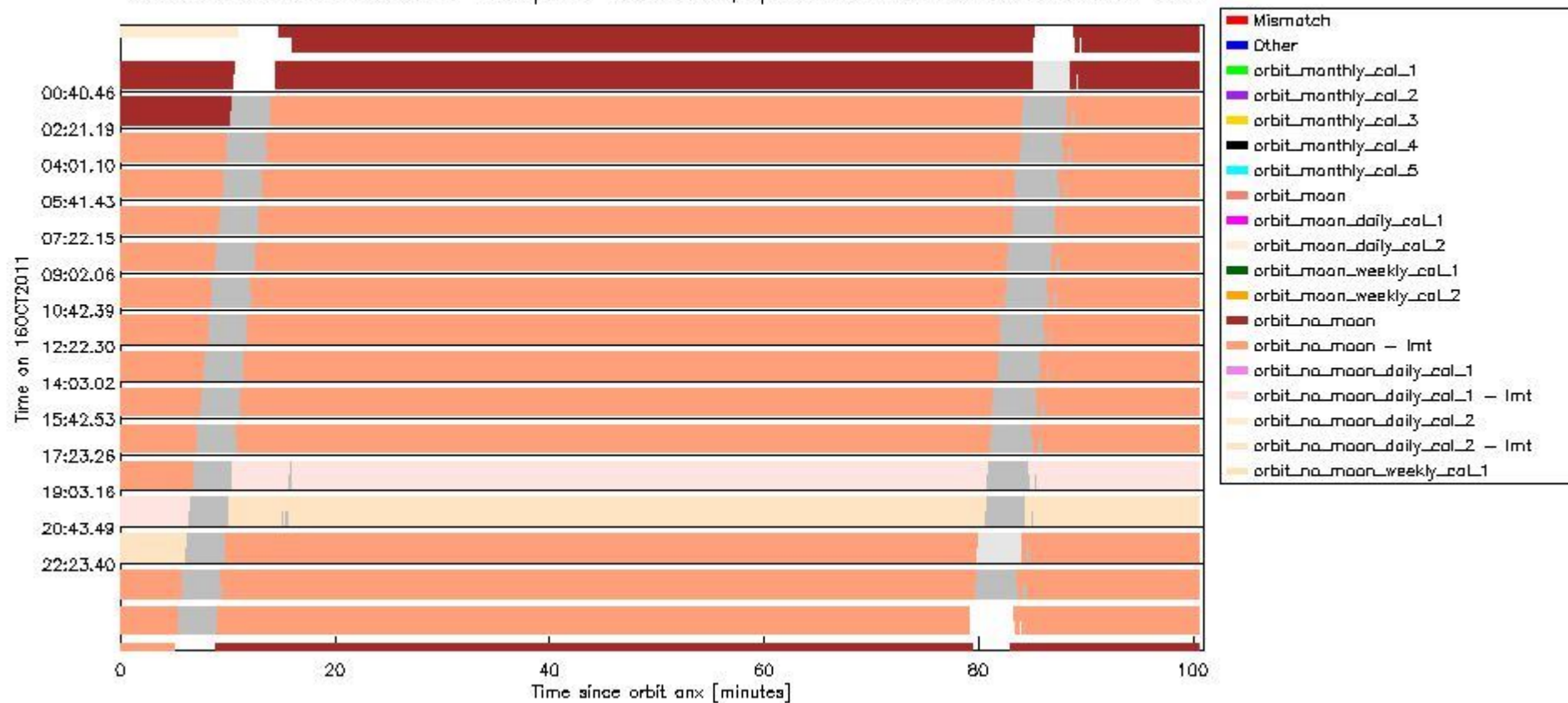
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111016\_5.PNG

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 16OCT2011.  
 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\_4504\_N\_20111016\_6.PNG

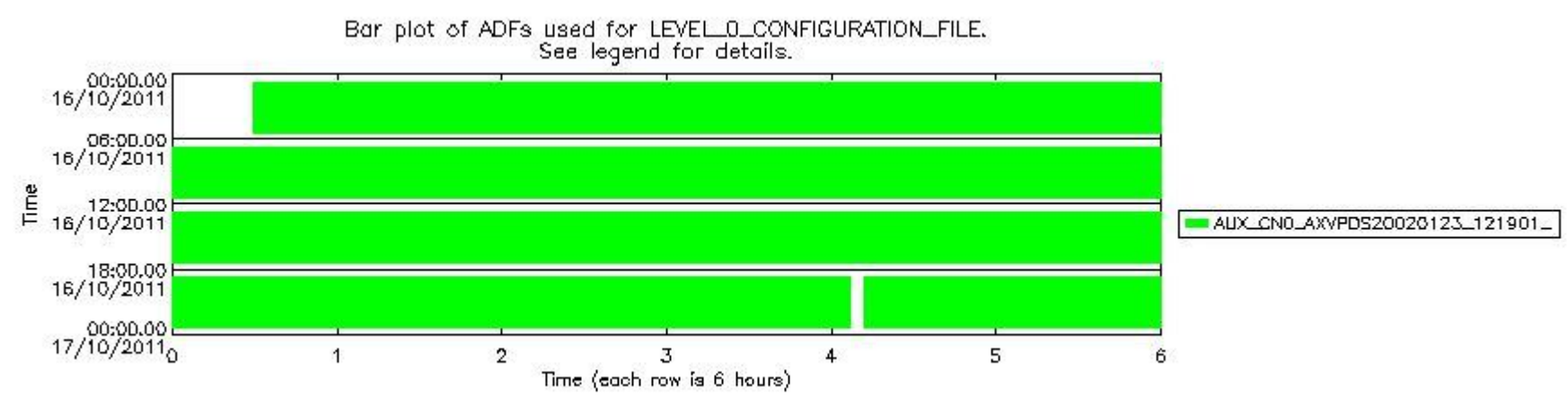
## 0.4 ADF monitoring

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

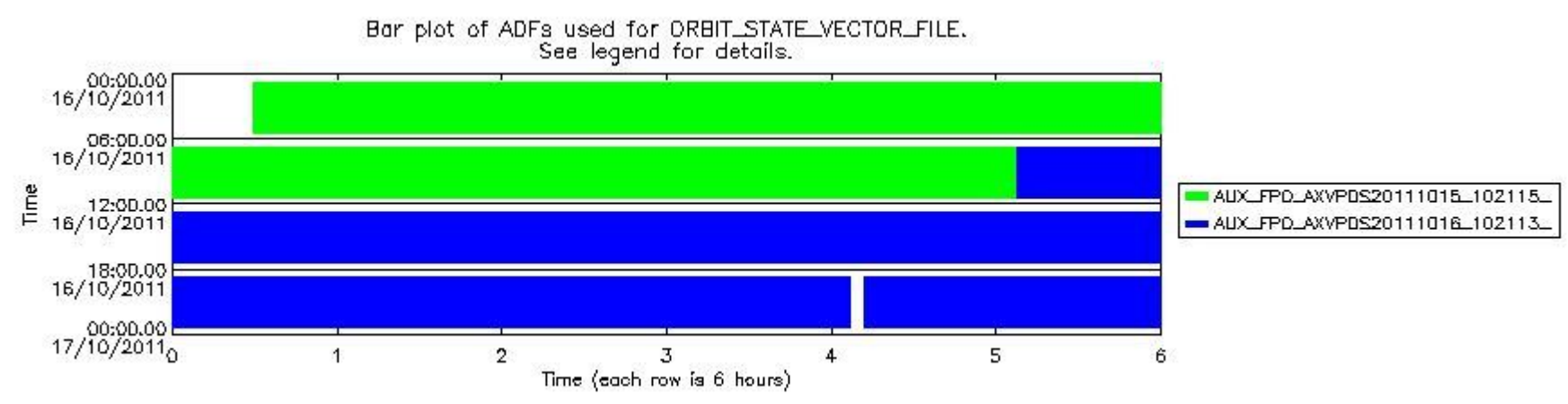
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

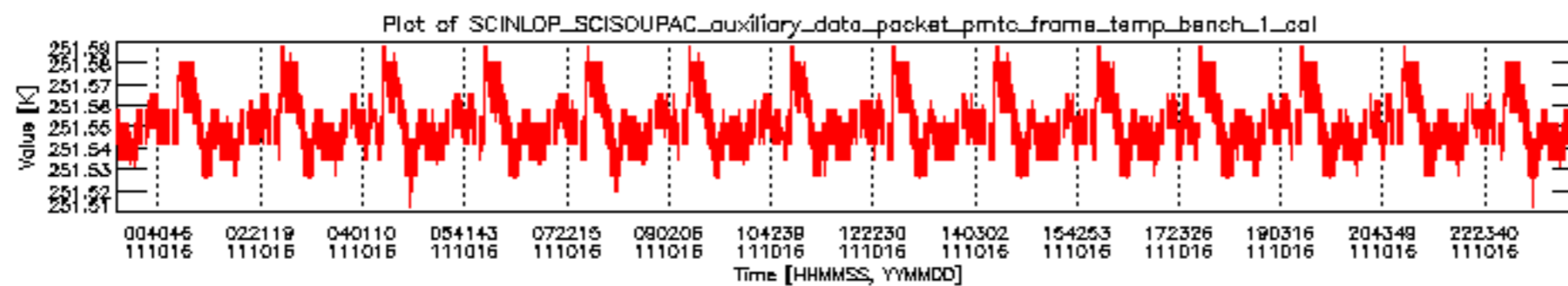
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20111015_102115_20111014_183648_20111024_205032</b>
2	<b>AUX_FPO_AXVPDS20111016_102113_20111015_194017_20111025_201348</b>



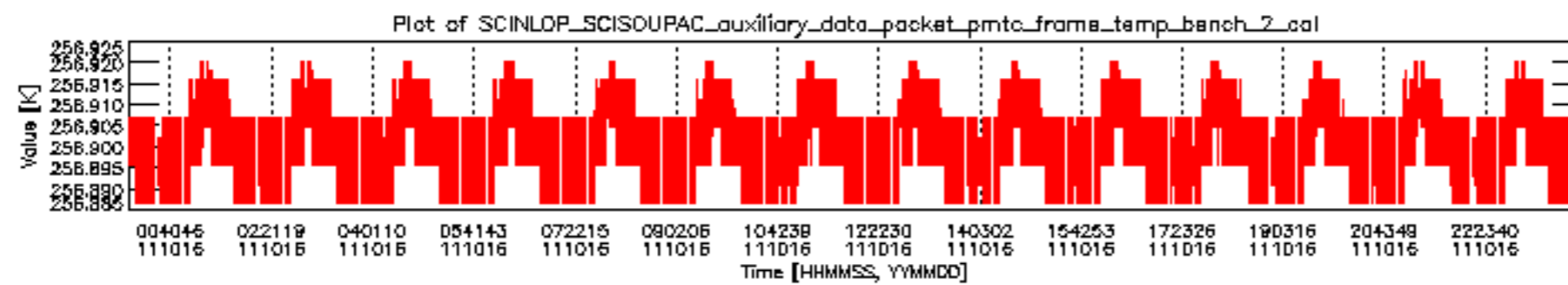
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111016\_7.PNG

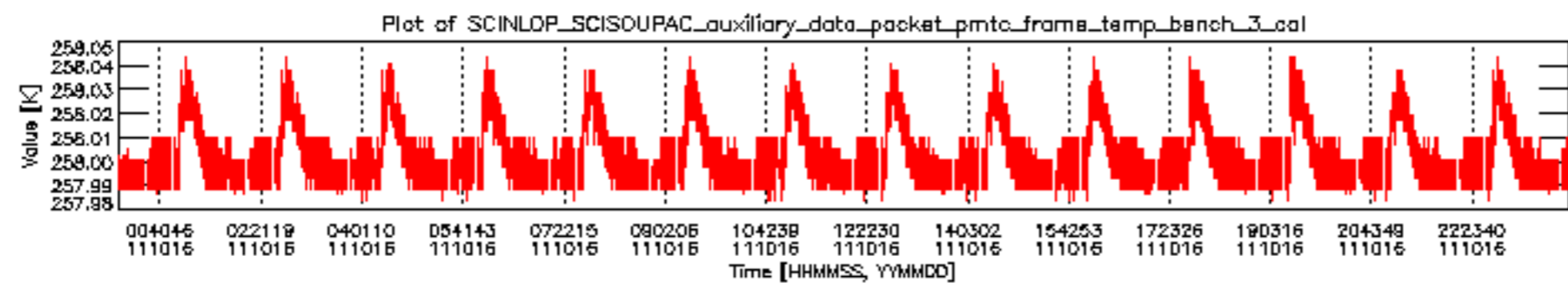


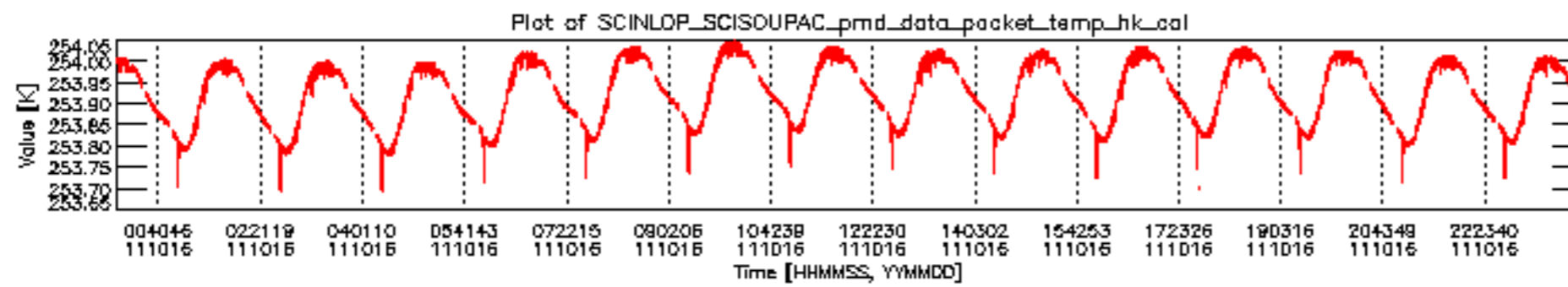
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111016\_8.PNG

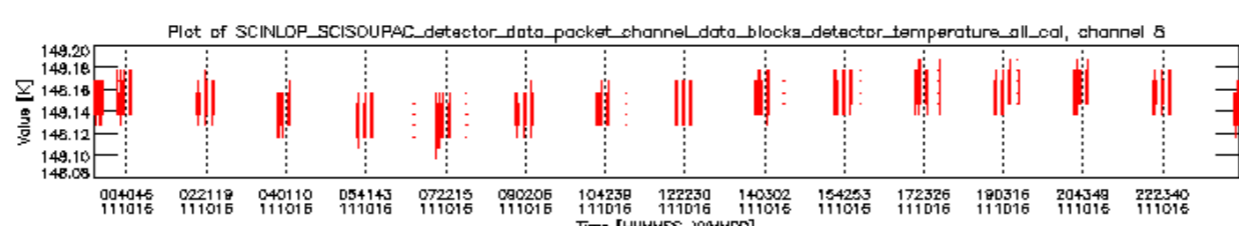
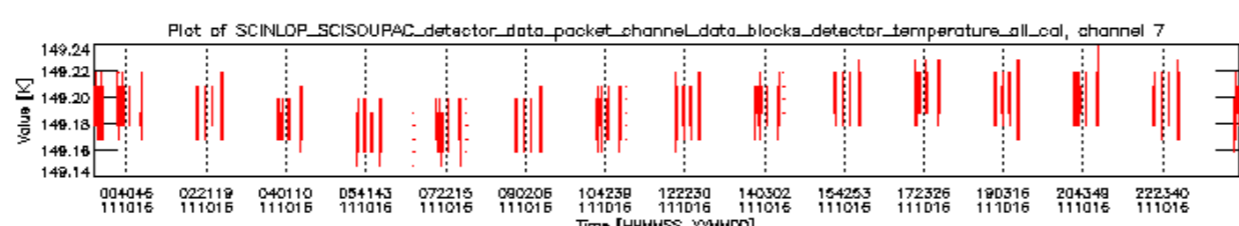
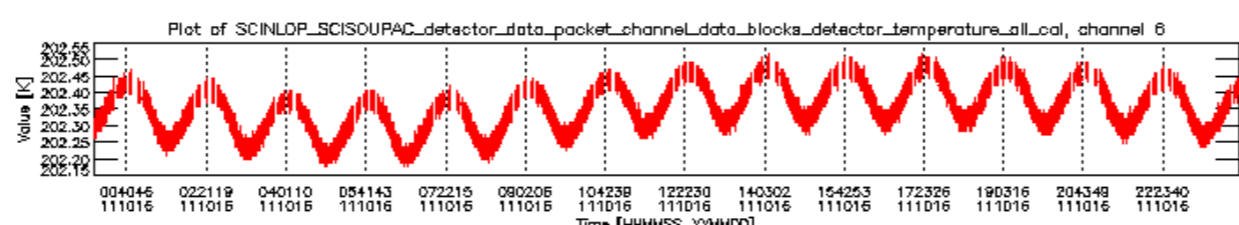
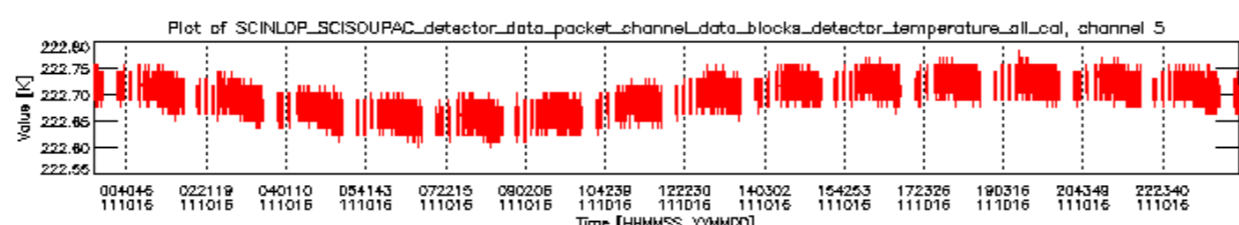
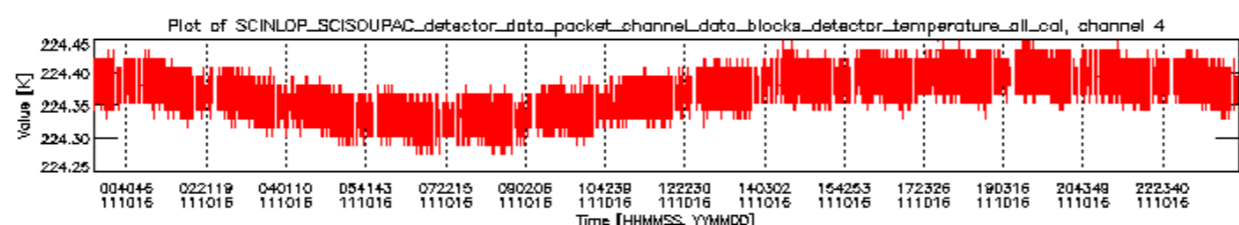
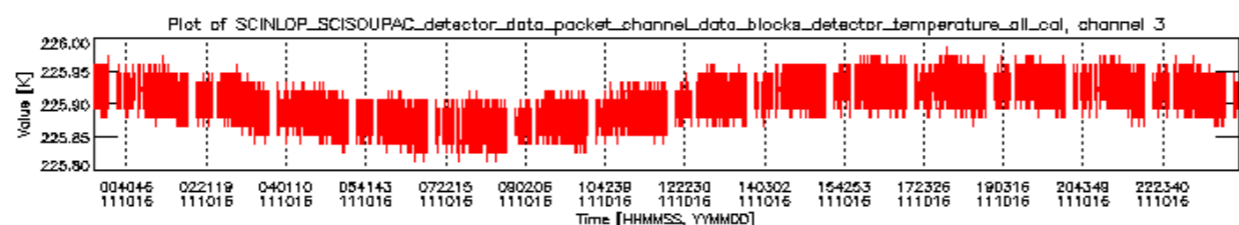
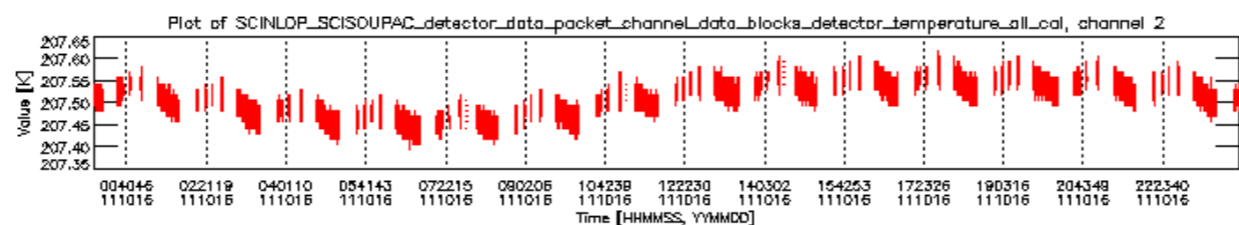
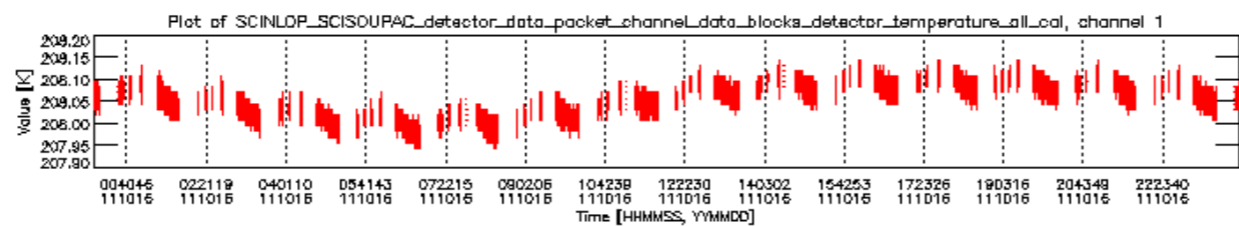
















Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 16OCT2011.  
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