

## 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	09APR2010 01:32:35
Data source version	<Any version>
Processing scope for products	02APR2010 00:00:00 to 03APR2010 00:00:00
Start time of first product within scope	02APR2010 00:53:42
Stop time of last product within scope	03APR2010 00:22:44
Total number of Level 0 products	14
Number of Level 0 products with errors	1

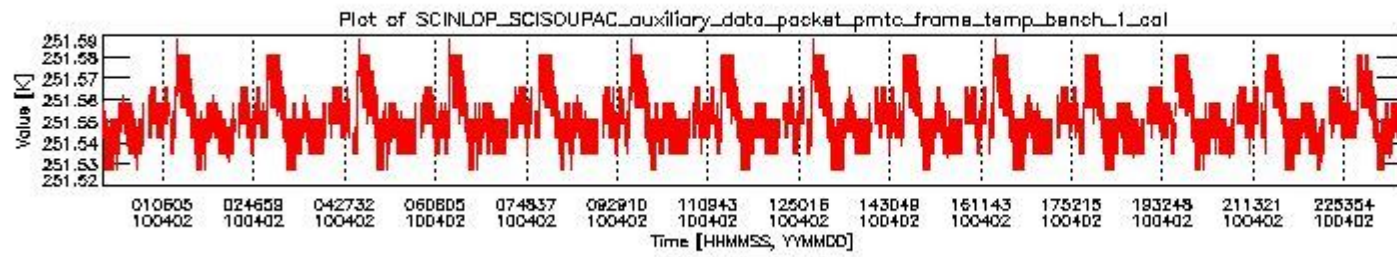
### 0.1.2 Summary per product

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

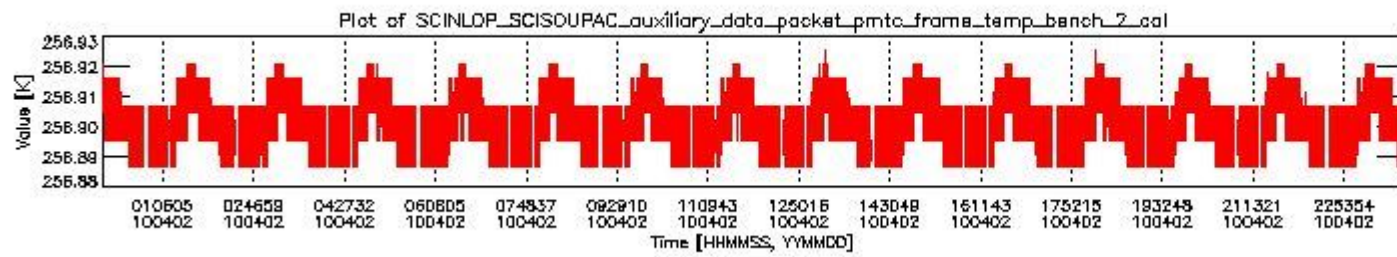
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100402_005342_000096042088_00145_42283_1194.N1	02APR2010 00:53:42	02APR2010 03:33:46	0	0	0	0	0
1	SCI_NL__OPNPDE20100402_033346_000069622088_00147_42285_1195.N1	02APR2010 03:33:46	02APR2010 05:29:49	0	0	0	0	0
2	SCI_NL__OPNPDE20100402_052853_000059802088_00148_42286_1196.N1	02APR2010 05:28:53	02APR2010 07:08:33	0	0	0	0	0
3	SCI_NL__OPNPDK20100402_070724_000041012088_00149_42287_1023.N1	02APR2010 07:07:24	02APR2010 08:15:45	0	0	0	0	0
4	SCI_NL__OPNPDK20100402_081545_000061732088_00150_42288_1024.N1	02APR2010 08:15:45	02APR2010 09:58:37	0	0	0	0	0
5	SCI_NL__OPNPDK20100402_095837_000059672088_00151_42289_1025.N1	02APR2010 09:58:37	02APR2010 11:38:04	0	0	0	0	0
6	SCI_NL__OPNPDK20100402_113656_000059802088_00152_42290_1026.N1	02APR2010 11:36:56	02APR2010 13:16:35	0	0	0	0	0
7	SCI_NL__OPNPDK20100402_131635_000059112088_00153_42291_1027.N1	02APR2010 13:16:35	02APR2010 14:55:06	0	0	0	0	0
8	SCI_NL__OPNPDK20100402_145358_000057312088_00154_42292_1028.N1	02APR2010 14:53:58	02APR2010 16:29:28	1	1	0	0	0
9	SCI_NL__OPNPDK20100402_162833_000061132088_00155_42293_1029.N1	02APR2010 16:28:33	02APR2010 18:10:25	0	0	0	0	0
10	SCI_NL__OPNPDK20100402_180930_000059242088_00156_42294_1030.N1	02APR2010 18:09:30	02APR2010 19:48:13	0	0	0	0	0
11	SCI_NL__OPNPDE20100402_194733_000038242088_00157_42295_1197.N1	02APR2010 19:47:33	02APR2010 20:51:17	0	0	0	0	0
12	SCI_NL__OPNPDE20100402_205707_000062872088_00157_42295_1198.N1	02APR2010 20:57:07	02APR2010 22:41:54	0	0	0	0	0
13	SCI_NL__OPNPDE20100402_224030_000061342088_00158_42296_1199.N1	02APR2010 22:40:30	03APR2010 00:22:44	0	0	0	0	0

## 0.2 Product Quality Indicators

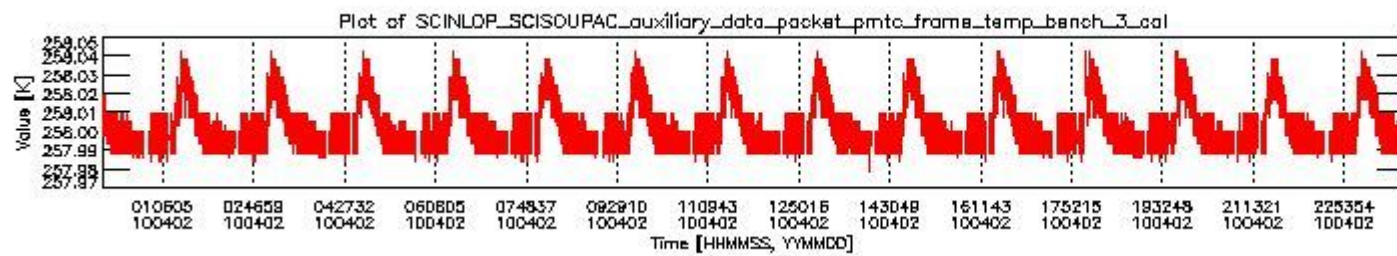
This section shows information about product quality, currently temperatures.



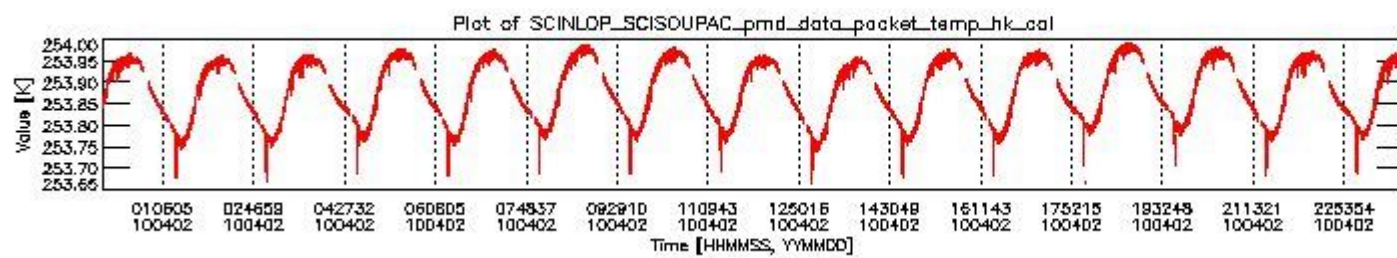
sciamachy\_daily\_report\_level0\_Any\_version\_20100402\_0.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100402\_1.PNG

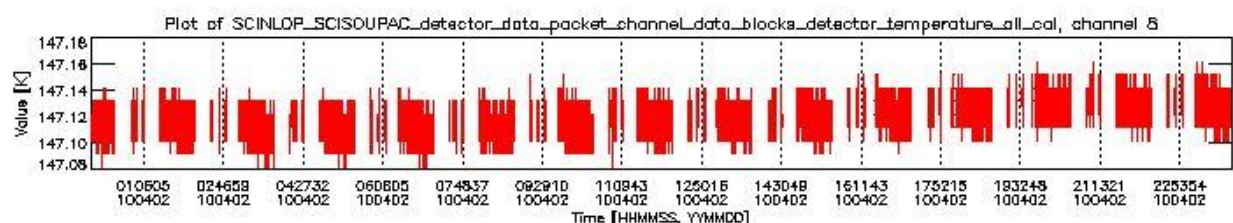
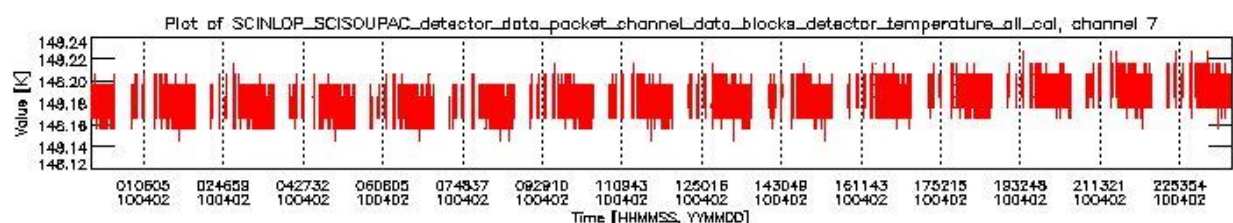
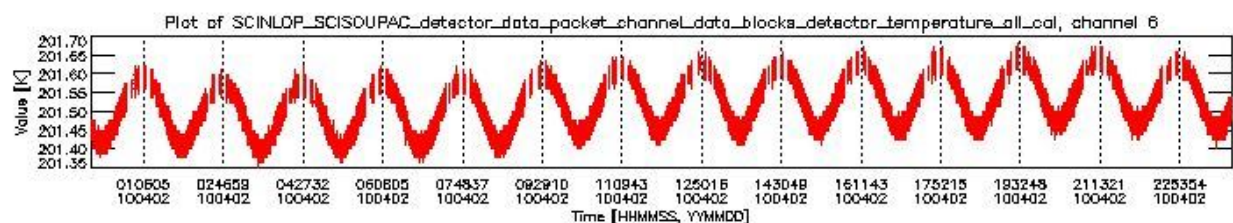
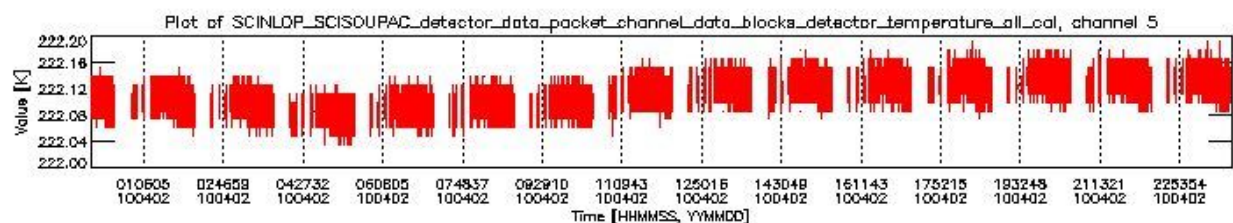
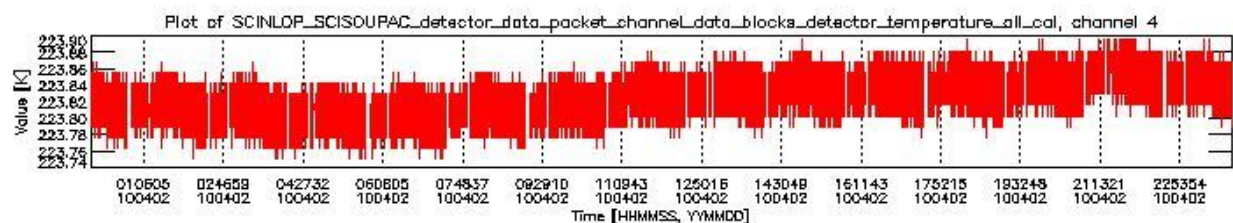
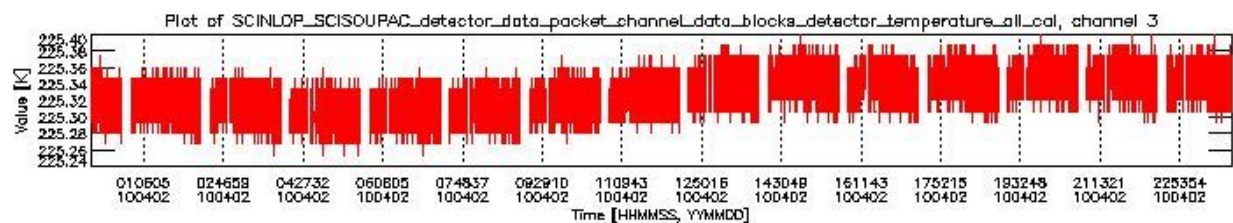
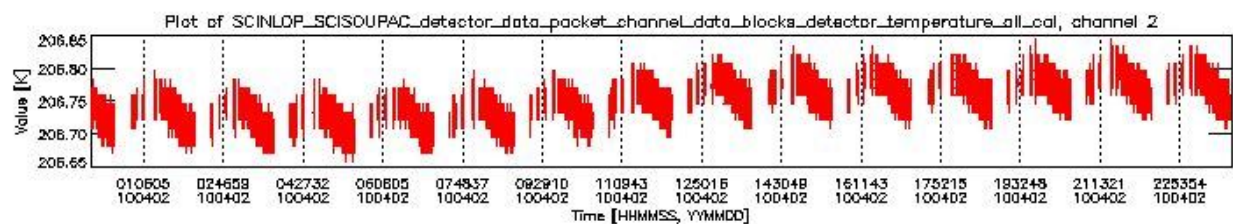
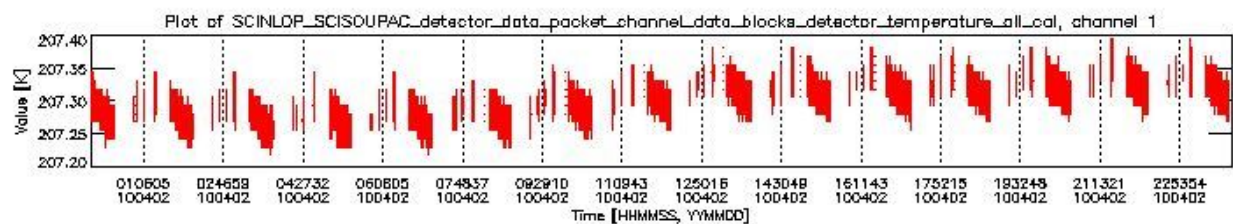


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sciamachy\_daily\_report\_level0\_Any\_version\_20100402\_3.PNG



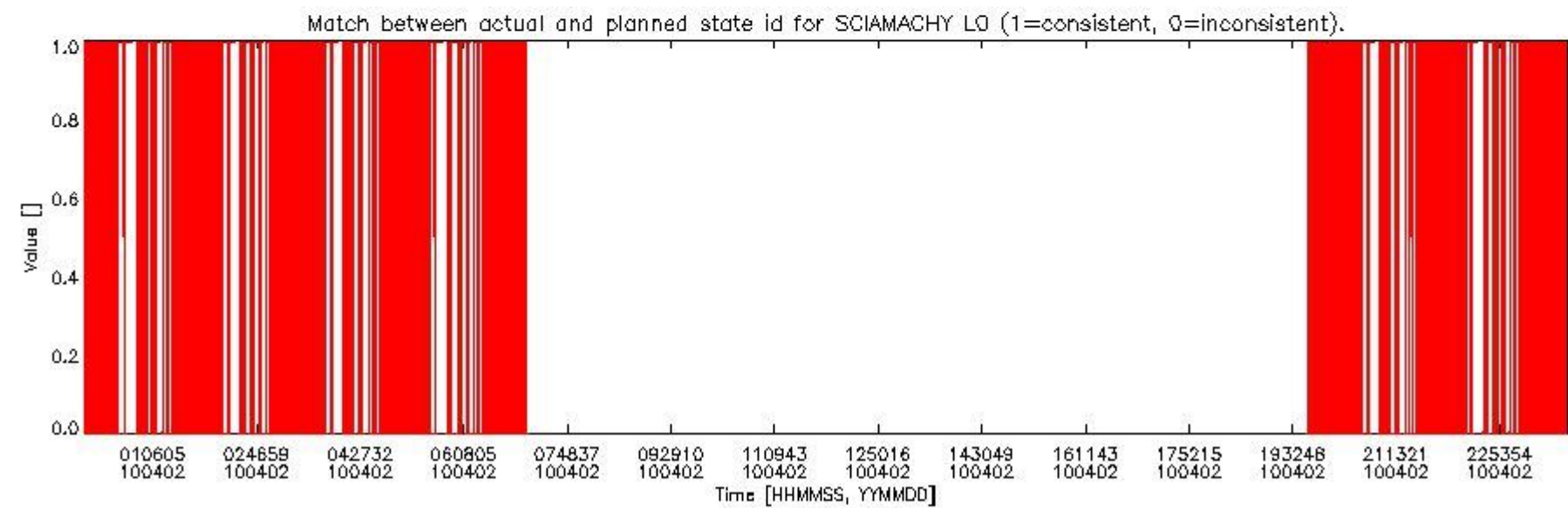
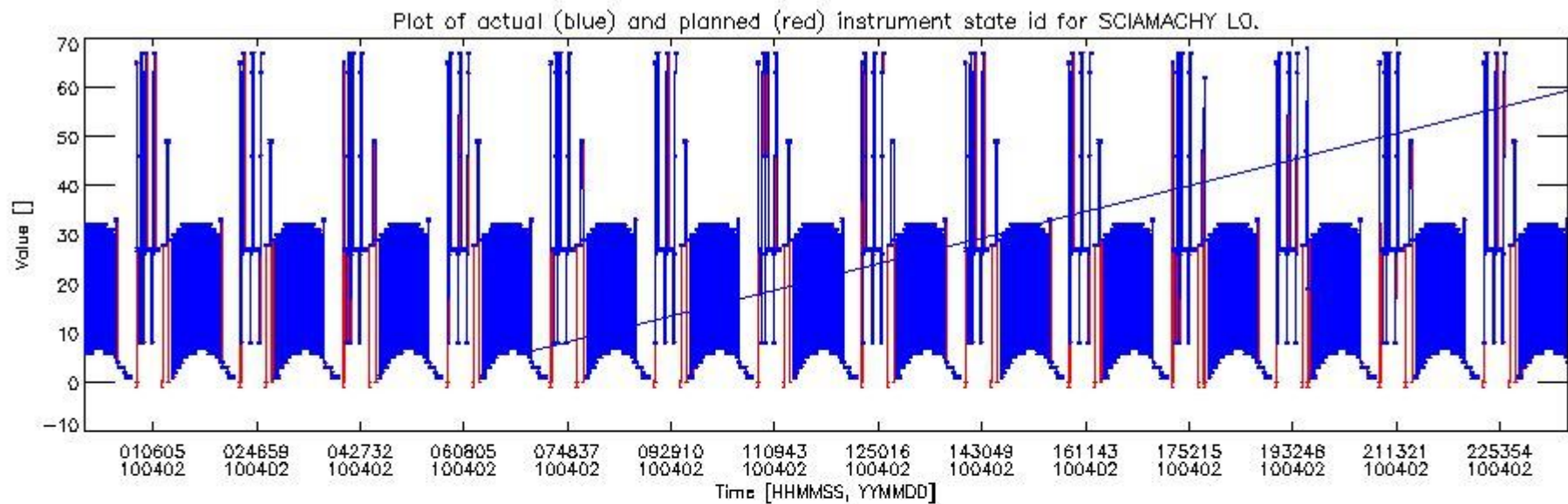


### 0.3 State monitoring

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: **39237**

#	Actual time	Actual value	Planned time	Planned value
0	02APR2010 00:00:09.405553	6	02APR2010 00:00:09.405553	32
1	02APR2010 00:00:09.780553	6	02APR2010 00:00:09.780553	32
2	02APR2010 00:00:10.030553	6	02APR2010 00:00:10.030553	32
3	02APR2010 00:00:10.280553	6	02APR2010 00:00:10.280553	32
4	02APR2010 00:00:10.530553	6	02APR2010 00:00:10.530553	32
5	02APR2010 00:00:10.780553	6	02APR2010 00:00:10.780553	32
6	02APR2010 00:00:11.030553	6	02APR2010 00:00:11.030553	32
7	02APR2010 00:00:11.280553	6	02APR2010 00:00:11.280553	32
8	02APR2010 00:00:11.530553	6	02APR2010 00:00:11.530553	32
9	02APR2010 00:00:11.780553	6	02APR2010 00:00:11.780553	32
10	02APR2010 00:00:12.030553	6	02APR2010 00:00:12.030553	32
11	02APR2010 00:00:12.280553	6	02APR2010 00:00:12.280553	32
12	02APR2010 00:00:12.530553	6	02APR2010 00:00:12.530553	32
13	02APR2010 00:00:12.780553	6	02APR2010 00:00:12.780553	32
14	02APR2010 00:00:13.030553	6	02APR2010 00:00:13.030553	32
15	02APR2010 00:00:13.280553	6	02APR2010 00:00:13.280553	32
16	02APR2010 00:00:13.530553	6	02APR2010 00:00:13.530553	32
17	02APR2010 00:00:13.780553	6	02APR2010 00:00:13.780553	32
18	02APR2010 00:00:14.030553	6	02APR2010 00:00:14.030553	32
19	02APR2010 00:00:14.280553	6	02APR2010 00:00:14.280553	32
	...	...	...	...



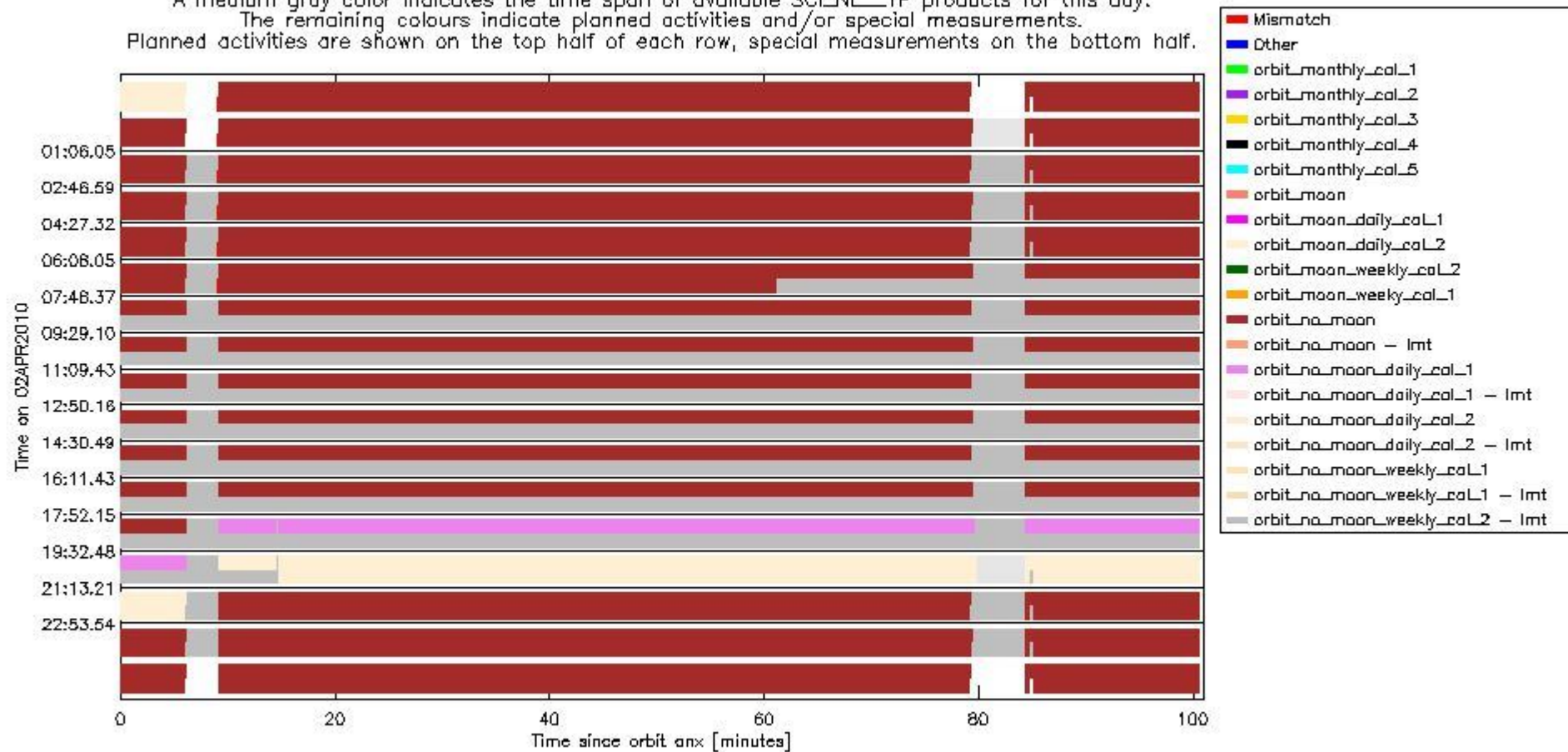
sciamachy\_daily\_report\_level0\_Any\_version\_20100402\_5.PNG

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 Q2APR2010.  
 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\_20100402\_6.PNG

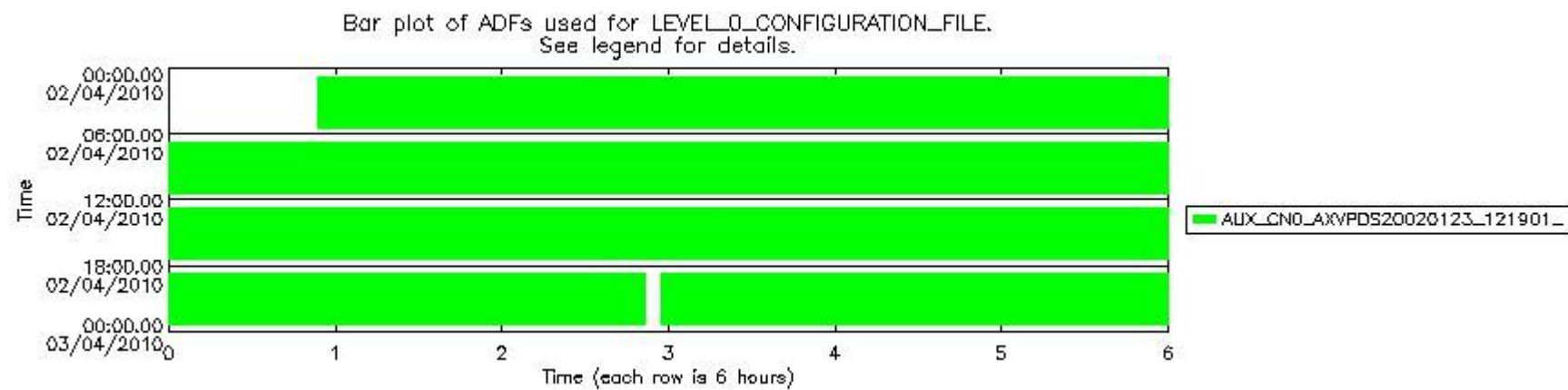
## 0.4 ADF monitoring

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

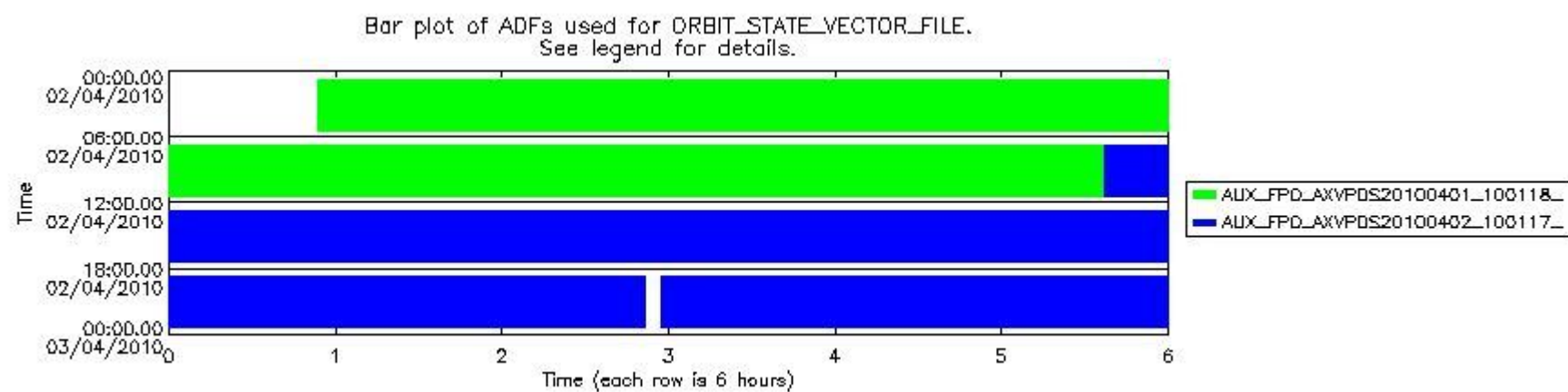
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

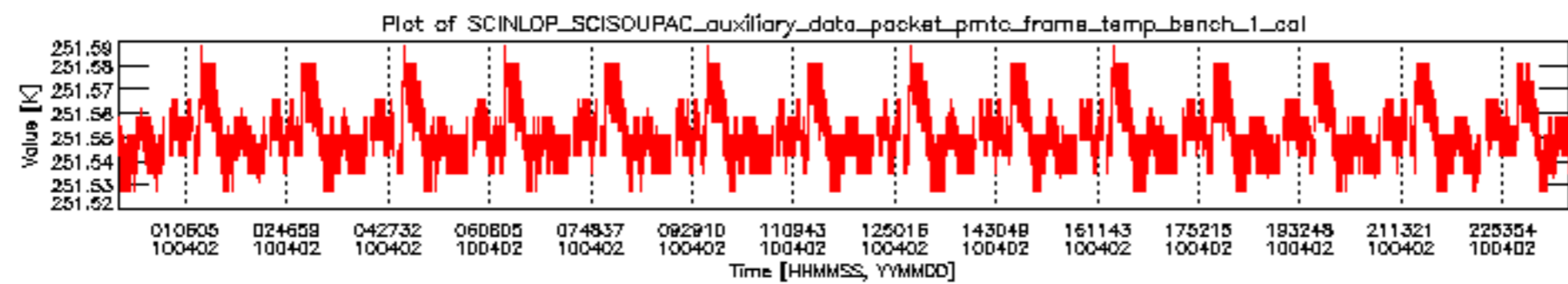
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20100401_100118_20100331_185525_20100410_202137
2	AUX_FPO_AXVPDS20100402_100117_20100401_182347_20100411_213036



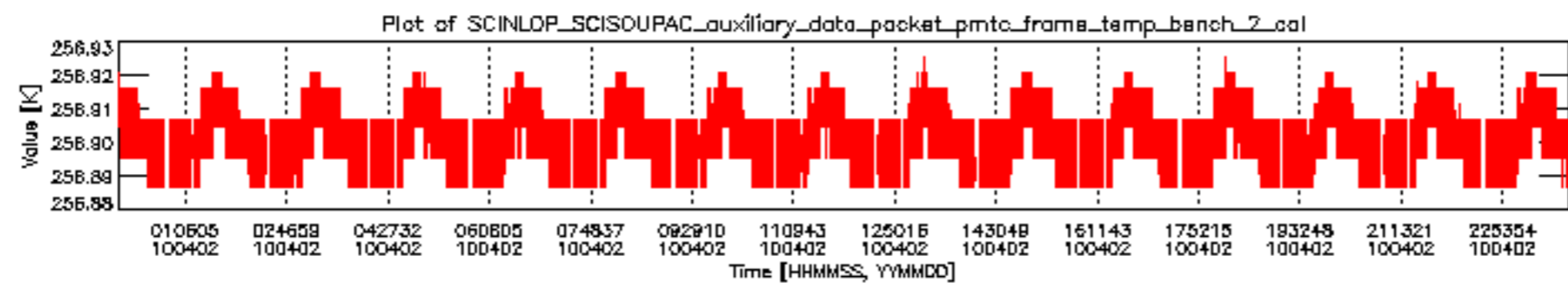
sciamachy\_daily\_report\_level0\_Any\_version\_20100402\_7.PNG

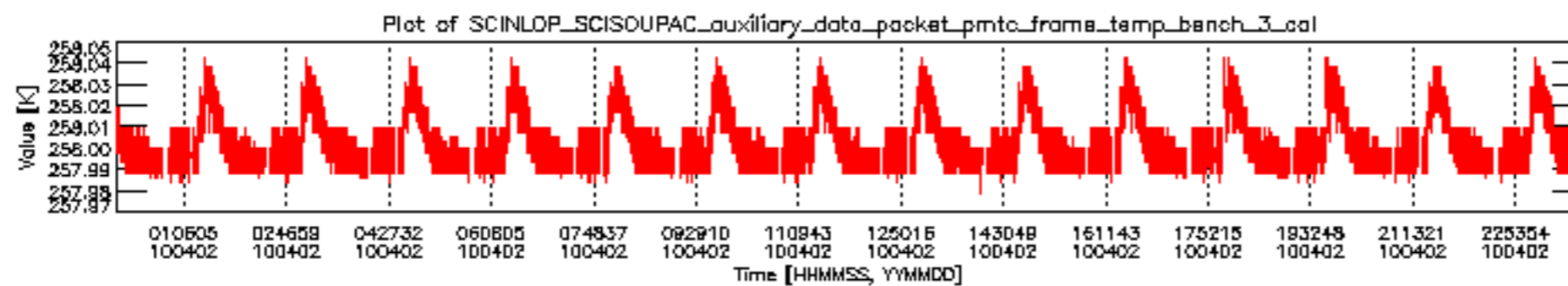


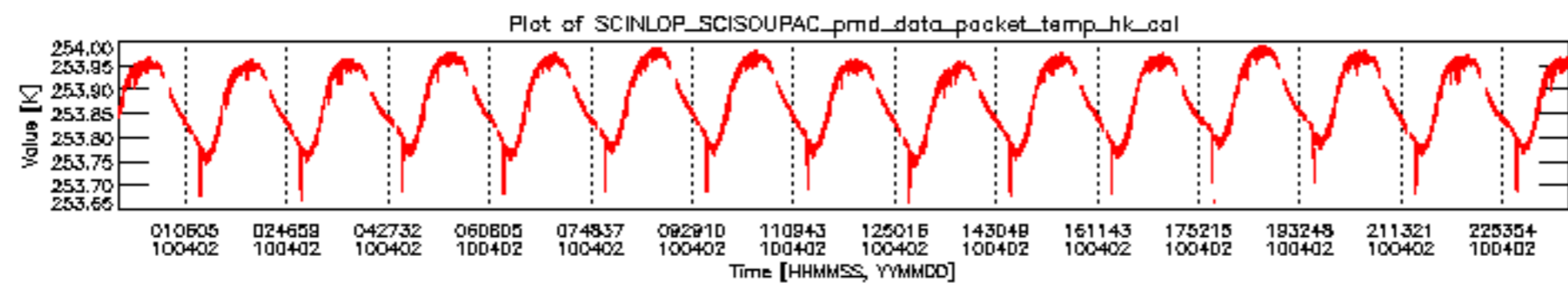
sciamachy\_daily\_report\_level0\_Any\_version\_20100402\_8.PNG

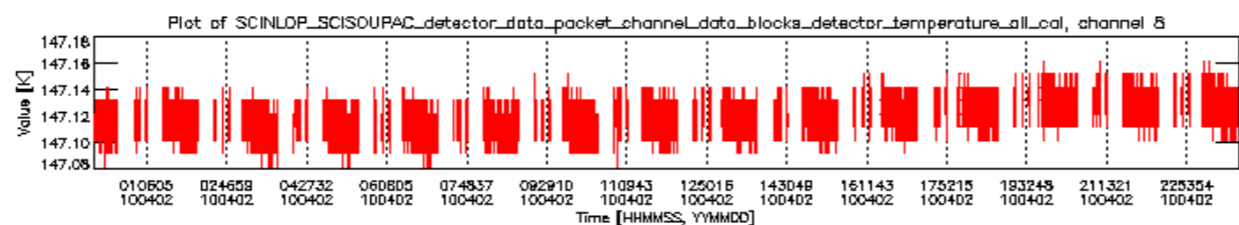
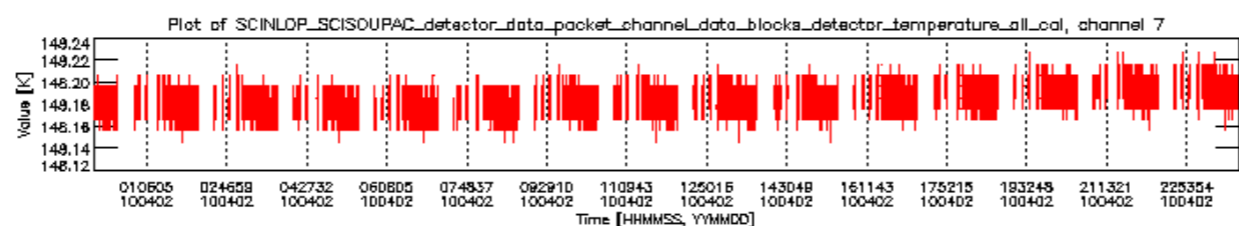
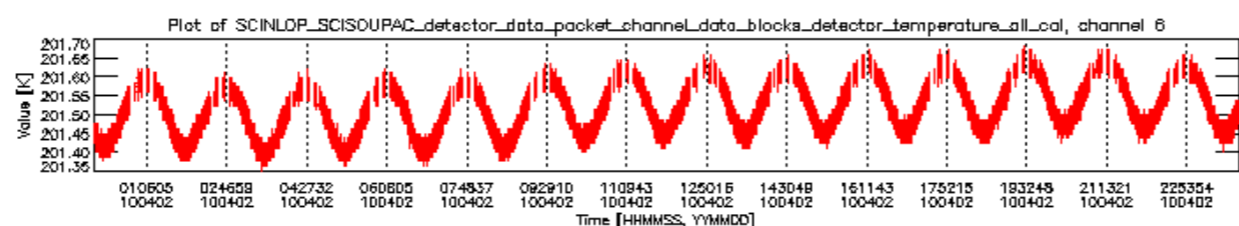
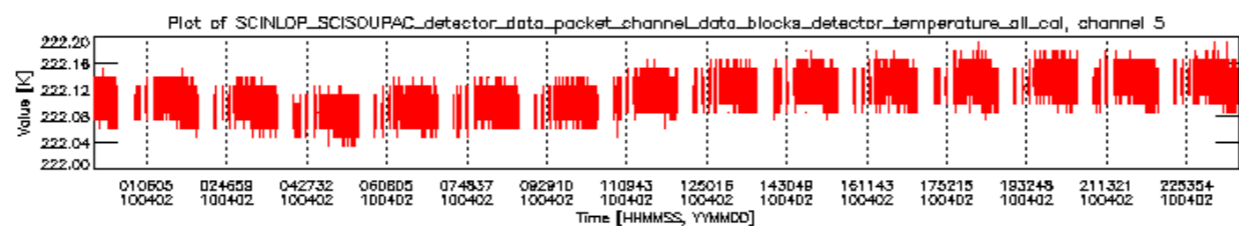
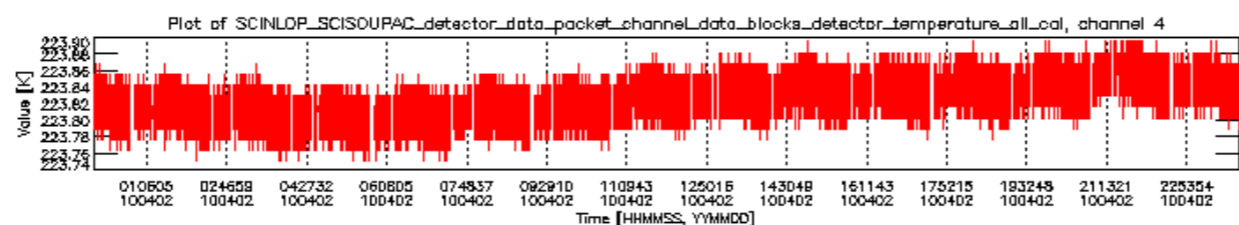
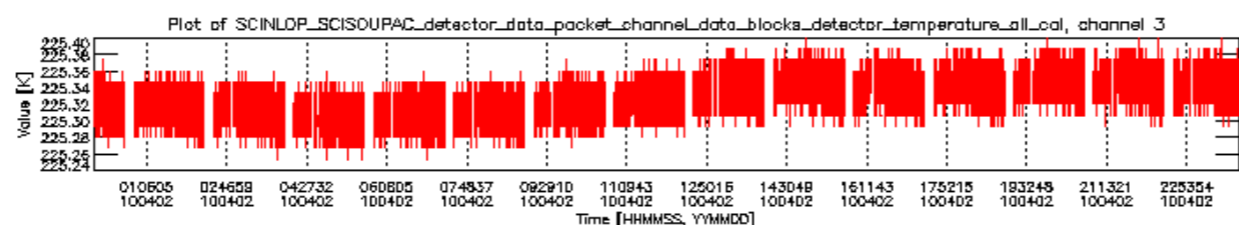
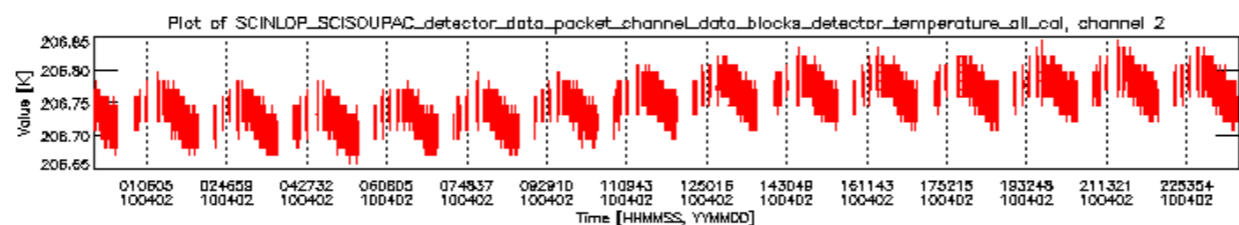
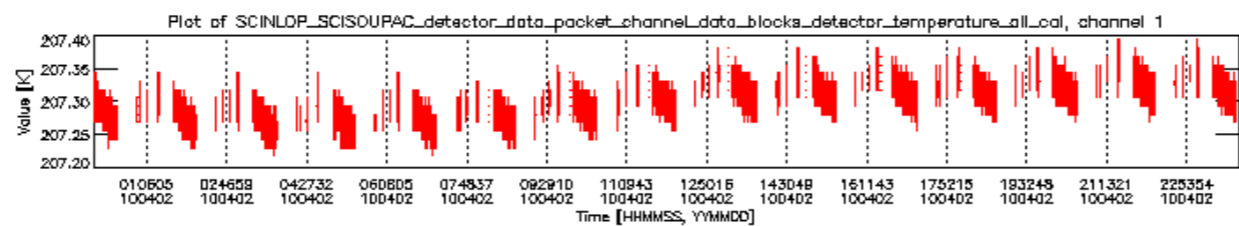
















Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 02APR2010.  
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