

## 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	27APR2010 02:36:06
Data source version	<Any version>
Processing scope for products	20APR2010 00:00:00 to 21APR2010 00:00:00
Start time of first product within scope	20APR2010 01:25:56
Stop time of last product within scope	21APR2010 00:57:40
Total number of Level 0 products	15
Number of Level 0 products with errors	0

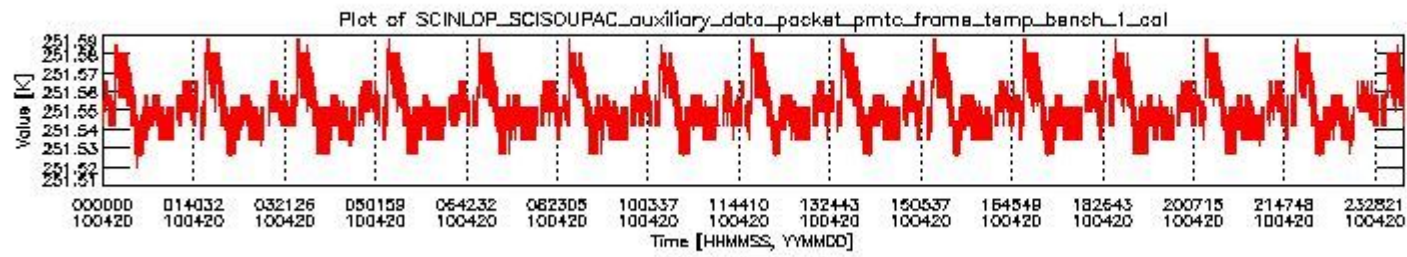
### 0.1.2 Summary per product

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

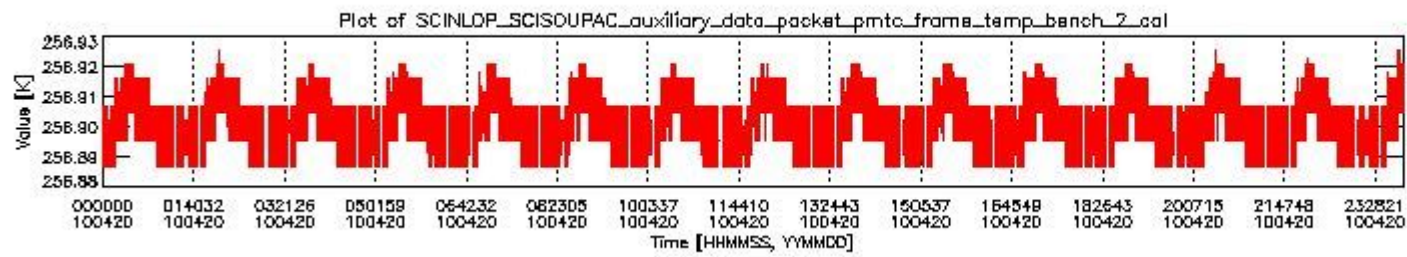
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100420_012556_000044722088_00403_42541_1300.N1	20APR2010 01:25:56	20APR2010 02:40:28	0	0	0	0	0
1	SCI_NL__OPNPDE20100420_023919_000061732088_00404_42542_1301.N1	20APR2010 02:39:19	20APR2010 04:22:12	0	0	0	0	0
2	SCI_NL__OPNPDE20100420_042103_000060922088_00405_42543_1302.N1	20APR2010 04:21:03	20APR2010 06:02:35	0	0	0	0	0
3	SCI_NL__OPNPDK20100420_060139_000041692088_00406_42544_1174.N1	20APR2010 06:01:39	20APR2010 07:11:08	0	0	0	0	0
4	SCI_NL__OPNPDK20100420_071012_000061472088_00407_42545_1175.N1	20APR2010 07:10:12	20APR2010 08:52:40	0	0	0	0	0
5	SCI_NL__OPNPDK20100420_085144_000060362088_00408_42546_1176.N1	20APR2010 08:51:44	20APR2010 10:32:19	0	0	0	0	0
6	SCI_NL__OPNPDK20100420_103123_000060232088_00409_42547_1177.N1	20APR2010 10:31:23	20APR2010 12:11:46	0	0	0	0	0
7	SCI_NL__OPNPDK20100420_121050_000059112088_00410_42548_1178.N1	20APR2010 12:10:50	20APR2010 13:49:21	0	0	0	0	0
8	SCI_NL__OPNPDK20100420_134921_000057872088_00411_42549_1179.N1	20APR2010 13:49:21	20APR2010 15:25:48	0	0	0	0	0
9	SCI_NL__OPNPDK20100420_152344_000061602088_00412_42550_1180.N1	20APR2010 15:23:44	20APR2010 17:06:24	0	0	0	0	0
10	SCI_NL__OPNPDK20100420_170419_000059302088_00413_42551_1181.N1	20APR2010 17:04:19	20APR2010 18:43:09	0	0	0	0	0
11	SCI_NL__OPNPDK20100420_184213_000060912088_00414_42552_1182.N1	20APR2010 18:42:13	20APR2010 20:23:44	0	0	0	0	0
12	SCI_NL__OPNPDE20100420_202153_000043502088_00415_42553_1303.N1	20APR2010 20:21:53	20APR2010 21:34:22	0	0	0	0	0
13	SCI_NL__OPNPDE20100420_213301_000062002088_00415_42553_1304.N1	20APR2010 21:33:01	20APR2010 23:16:21	0	0	0	0	0
14	SCI_NL__OPNPDE20100420_231537_000061232088_00416_42554_1305.N1	20APR2010 23:15:37	21APR2010 00:57:40	0	0	0	0	0

## 0.2 Product Quality Indicators

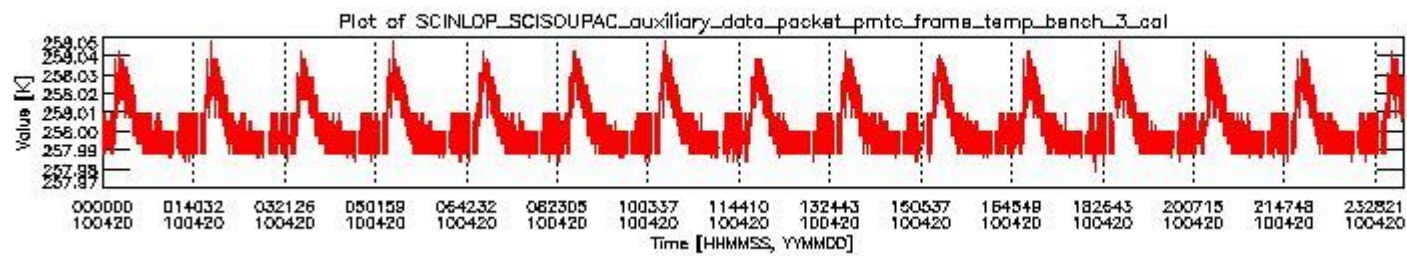
This section shows information about product quality, currently temperatures.



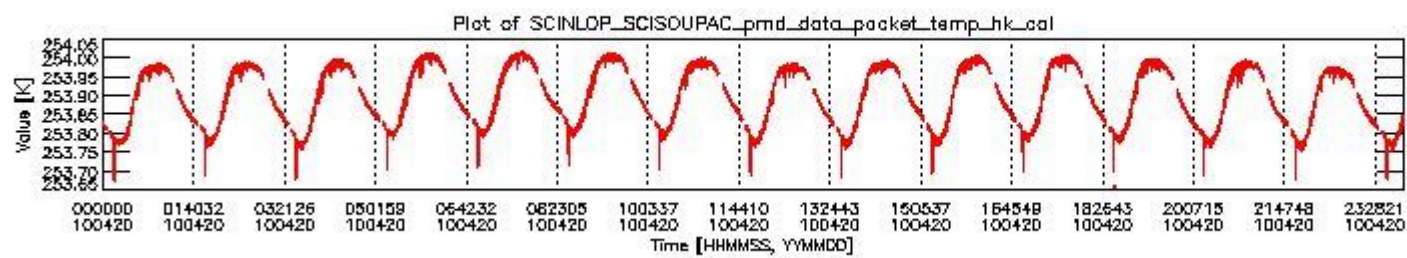
sciamachy\_daily\_report\_level0\_Any\_version\_20100420\_0.PNG



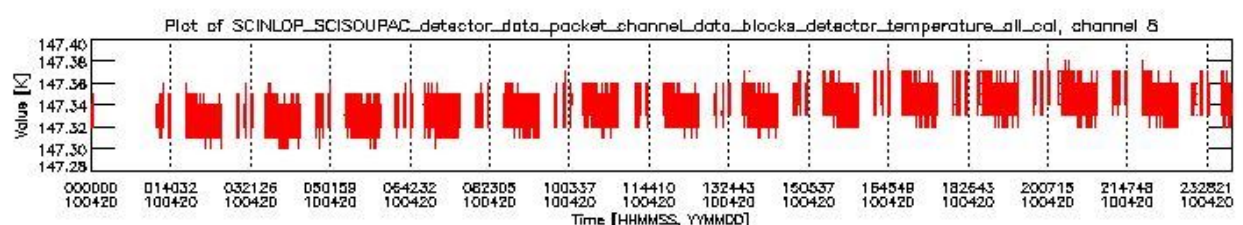
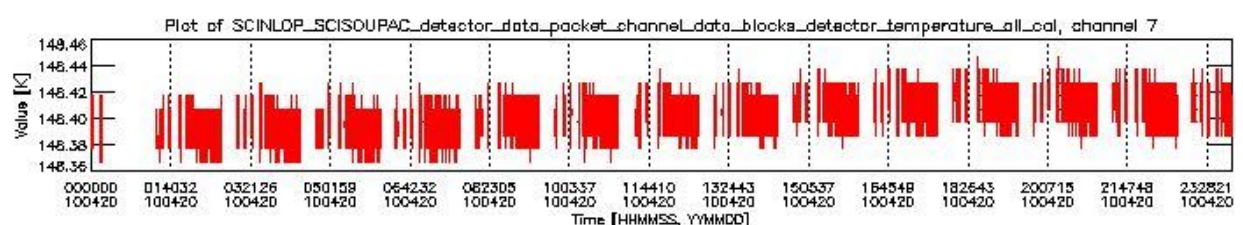
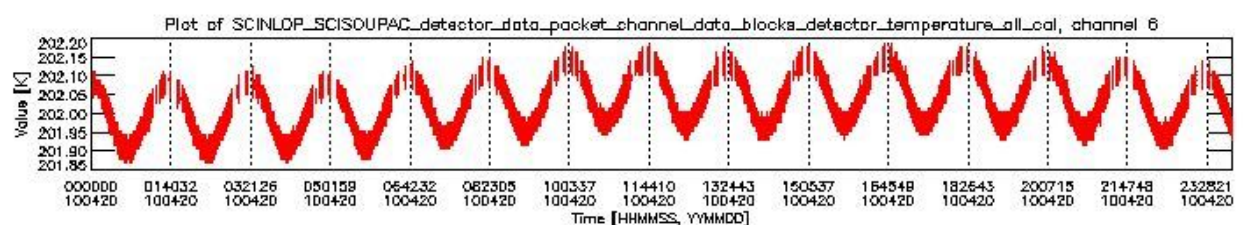
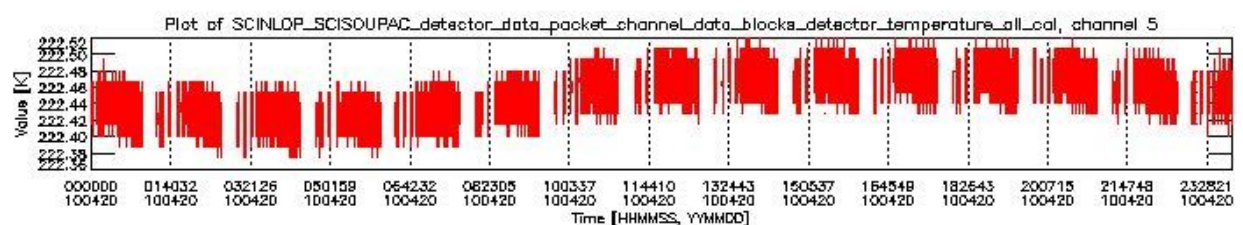
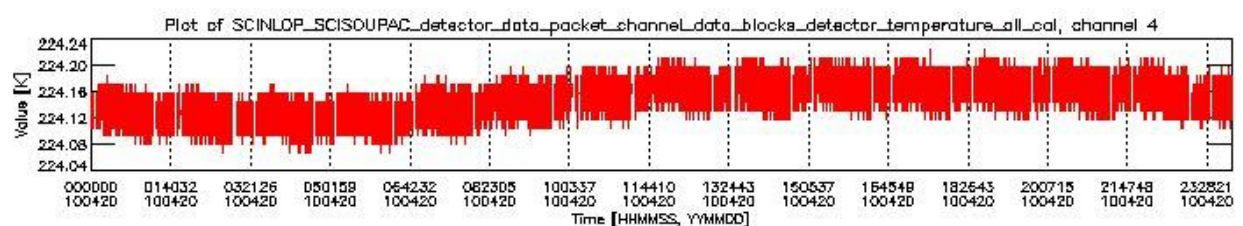
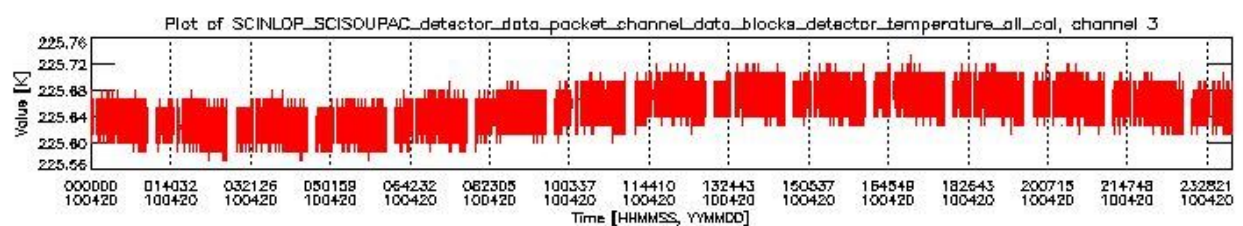
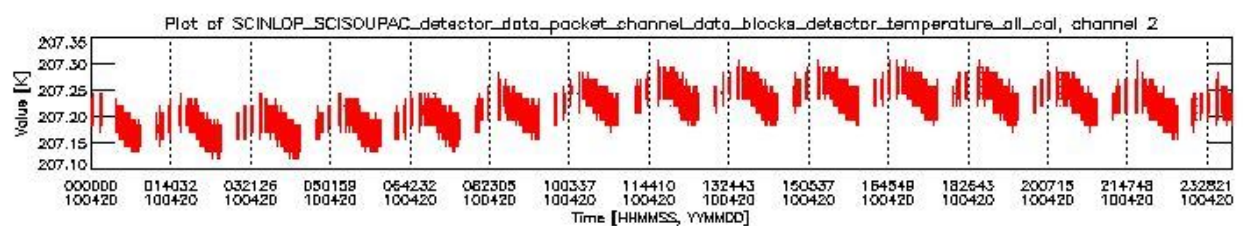
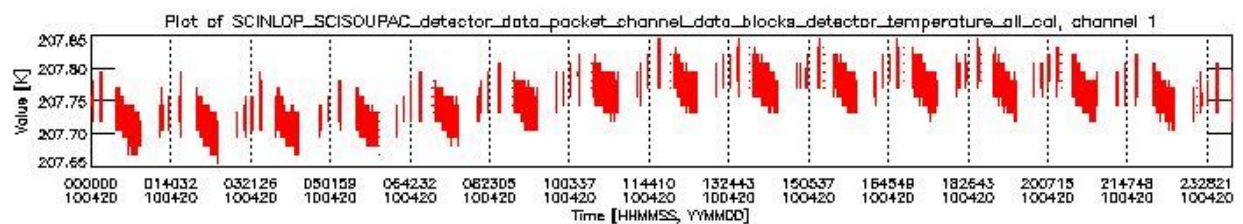
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sciamachy\_daily\_report\_level0\_Any\_version\_20100420\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100420\_3.PNG

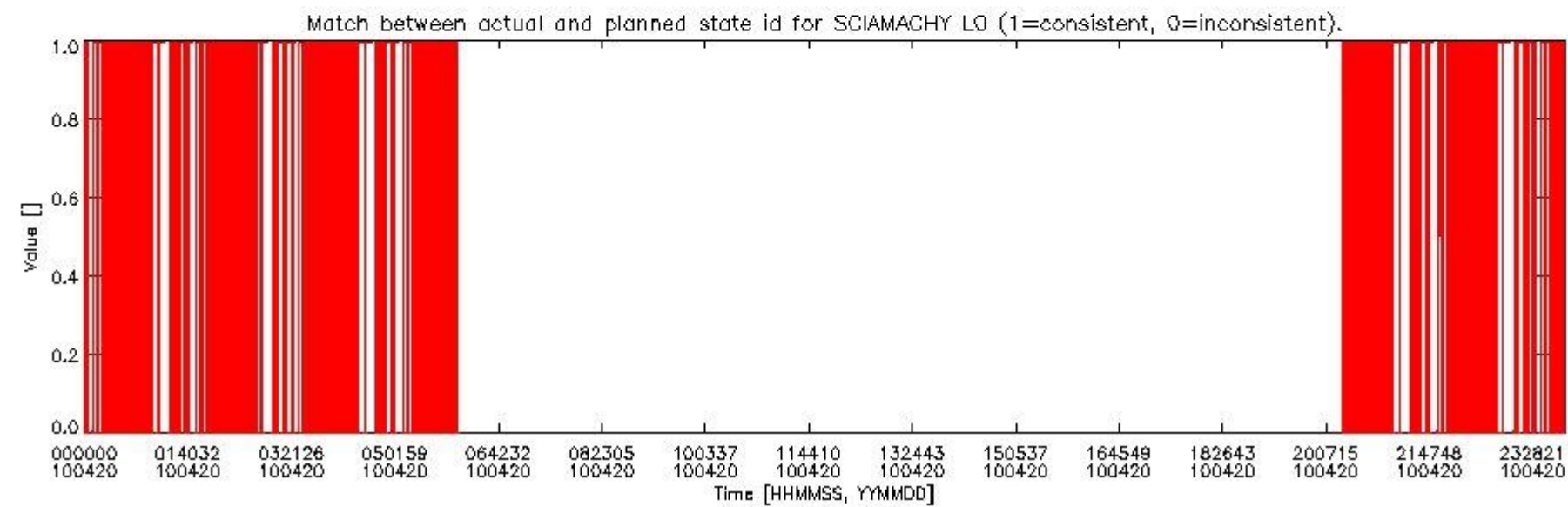
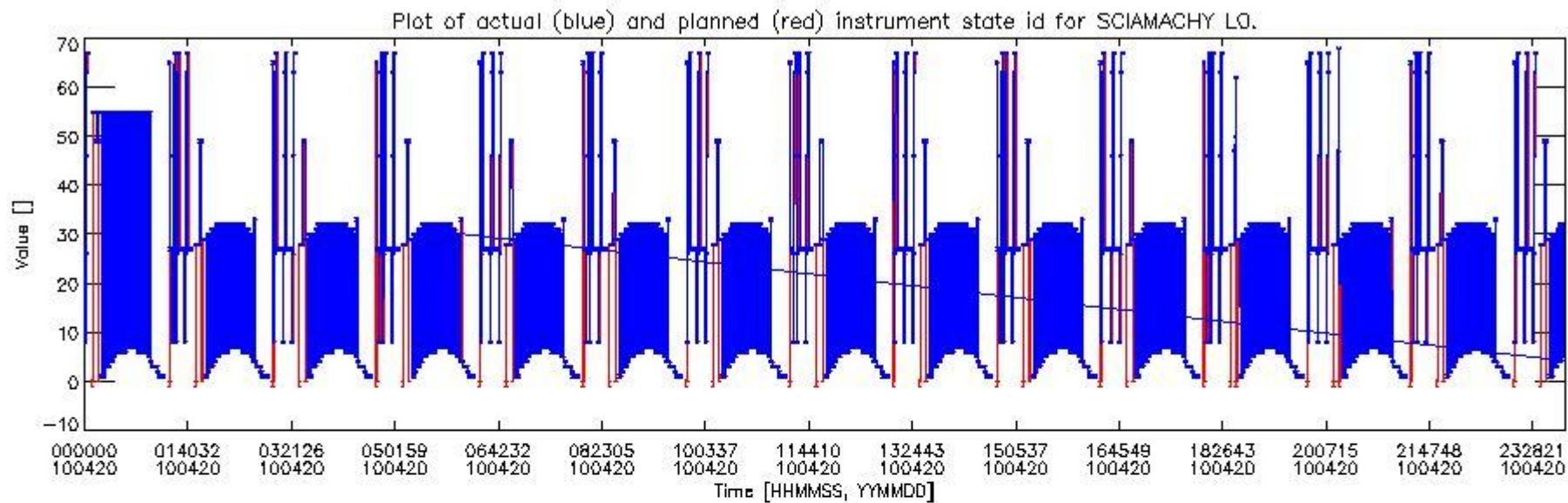


### 0.3 State monitoring

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: **40140**

#	Actual time	Actual value	Planned time	Planned value
0	20APR2010 00:00:21.654078	8	20APR2010 00:00:21.654078	27
1	20APR2010 00:00:22.779078	8	20APR2010 00:00:22.779078	27
2	20APR2010 00:00:23.779078	8	20APR2010 00:00:23.779078	27
3	20APR2010 00:00:24.779078	8	20APR2010 00:00:24.779078	27
4	20APR2010 00:00:25.779078	8	20APR2010 00:00:25.779078	27
5	20APR2010 00:00:26.654078	8	20APR2010 00:00:26.654078	27
6	20APR2010 00:00:26.779078	8	20APR2010 00:00:26.779078	27
7	20APR2010 00:00:27.779078	8	20APR2010 00:00:27.779078	27
8	20APR2010 00:00:28.779078	8	20APR2010 00:00:28.779078	27
9	20APR2010 00:00:29.779078	8	20APR2010 00:00:29.779078	27
10	20APR2010 00:00:30.779078	8	20APR2010 00:00:30.779078	27
11	20APR2010 00:00:31.654078	8	20APR2010 00:00:31.654078	27
12	20APR2010 00:00:31.779078	8	20APR2010 00:00:31.779078	27
13	20APR2010 00:00:32.779078	8	20APR2010 00:00:32.779078	27
14	20APR2010 00:00:33.779078	8	20APR2010 00:00:33.779078	27
15	20APR2010 00:00:34.779078	8	20APR2010 00:00:34.779078	27
16	20APR2010 00:00:35.779078	8	20APR2010 00:00:35.779078	27
17	20APR2010 00:00:36.654078	8	20APR2010 00:00:36.654078	27
18	20APR2010 00:00:36.779078	8	20APR2010 00:00:36.779078	27
19	20APR2010 00:00:37.779078	8	20APR2010 00:00:37.779078	27
...	...	...	...	...

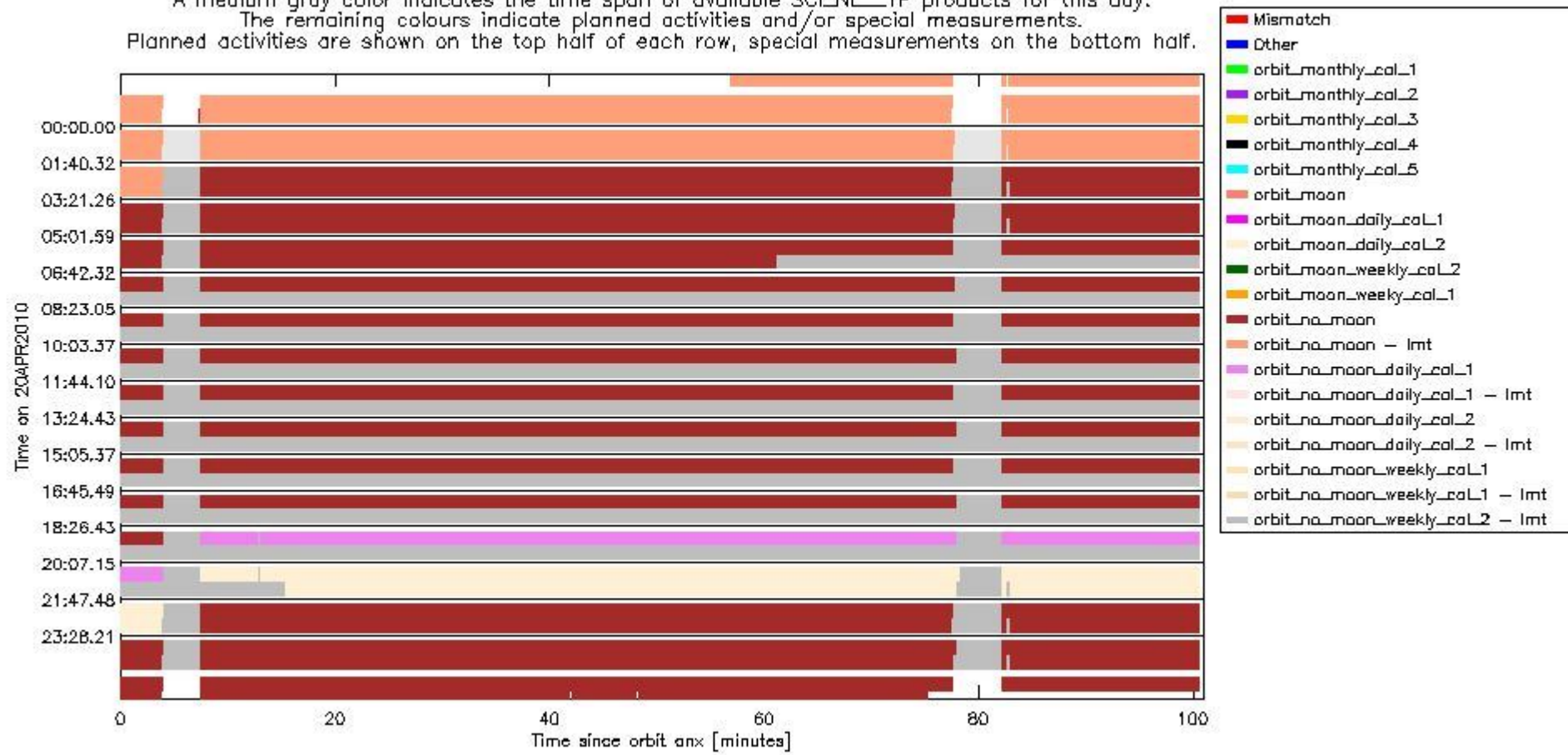


sciamachy\_daily\_report\_level0\_Any\_version\_20100420\_5.PNG

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 20APR2010.  
 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\_20100420\_6.PNG

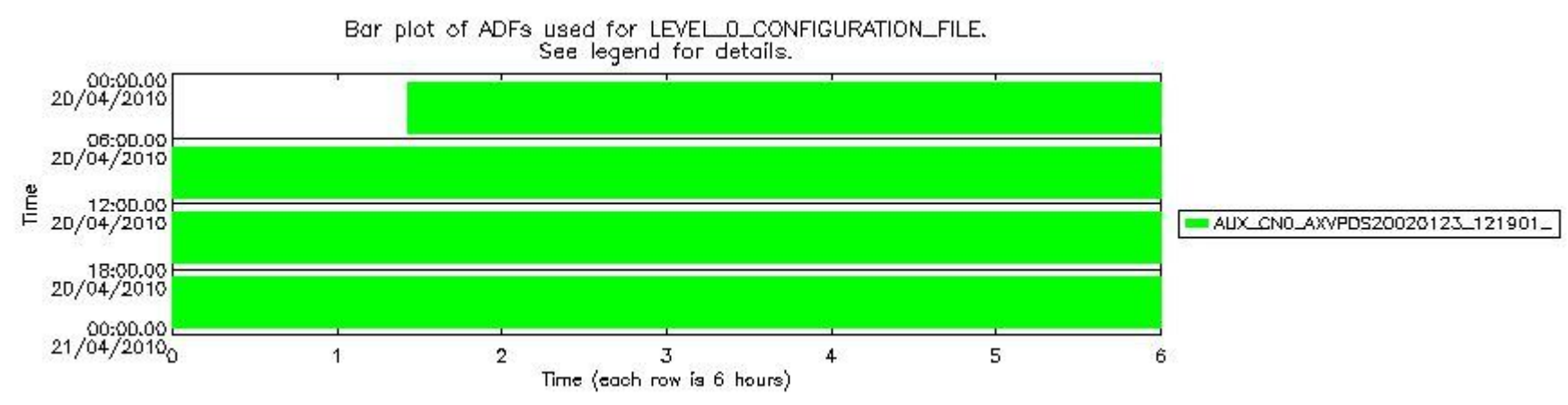
## 0.4 ADF monitoring

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

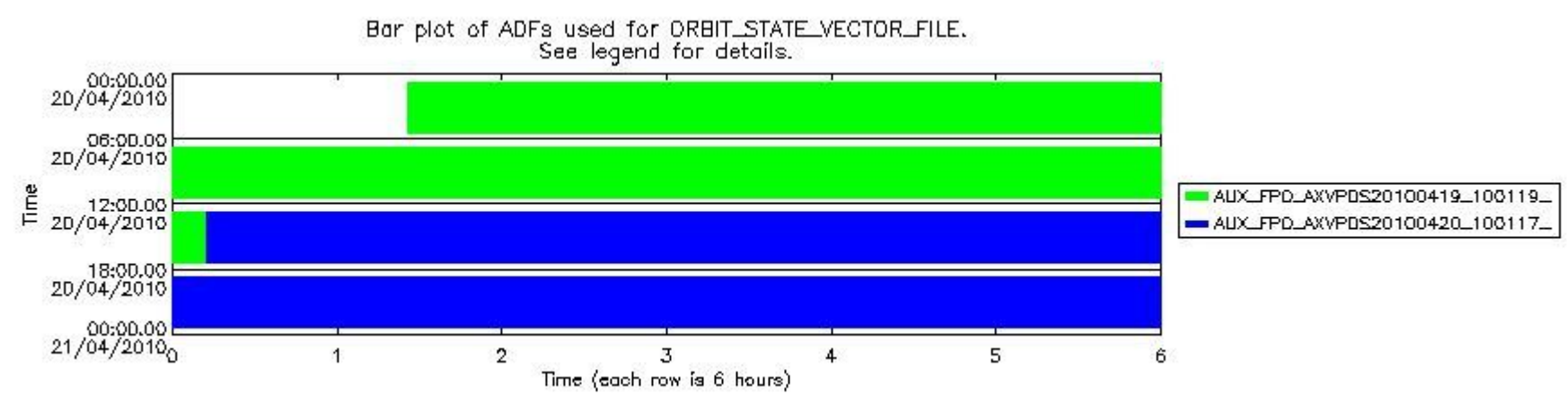
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

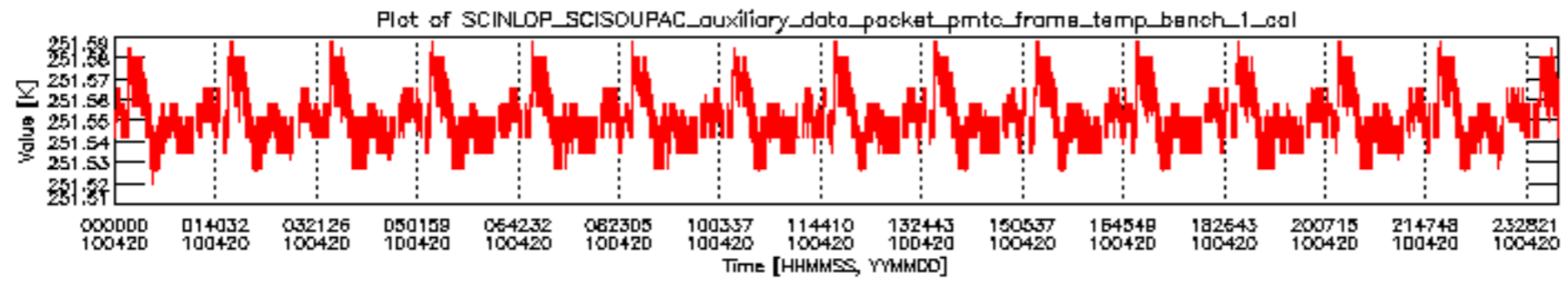
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20100419_100119_20100418_192952_20100428_205604
2	AUX_FPO_AXVPDS20100420_100117_20100419_185815_20100429_202427



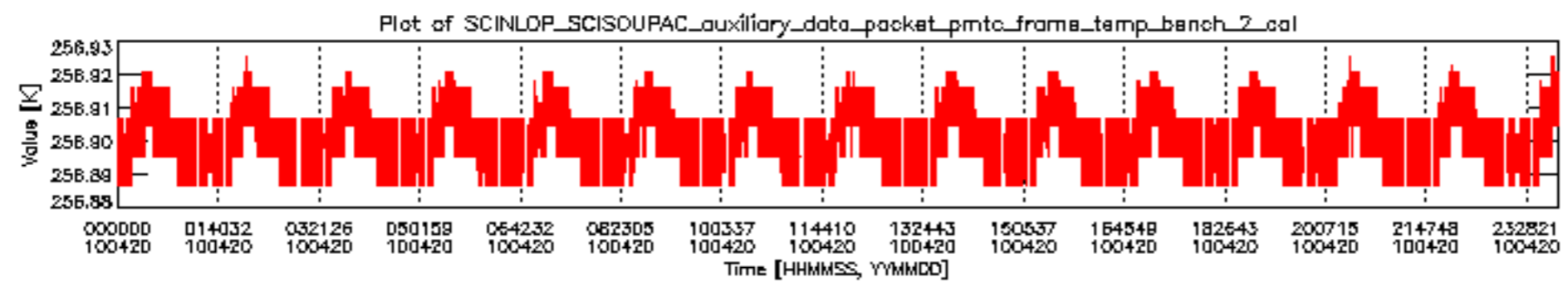
sciamachy\_daily\_report\_level0\_Any\_version\_20100420\_7.PNG

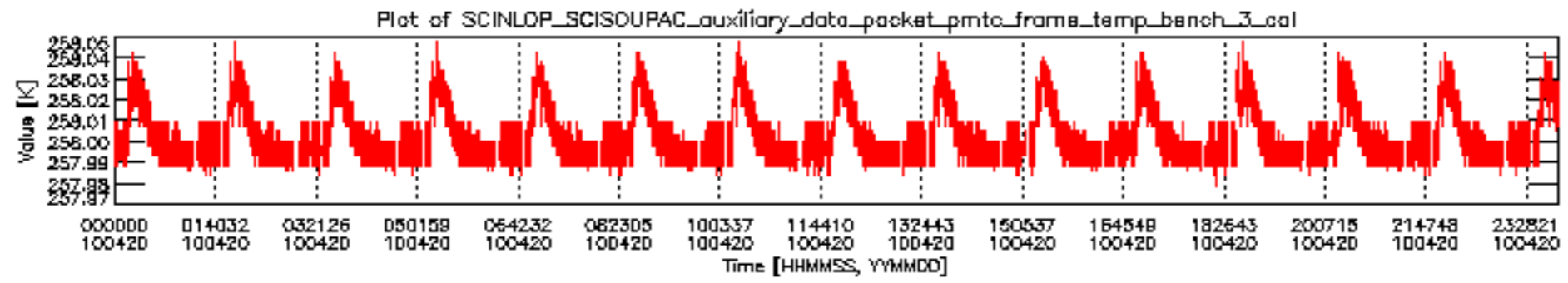


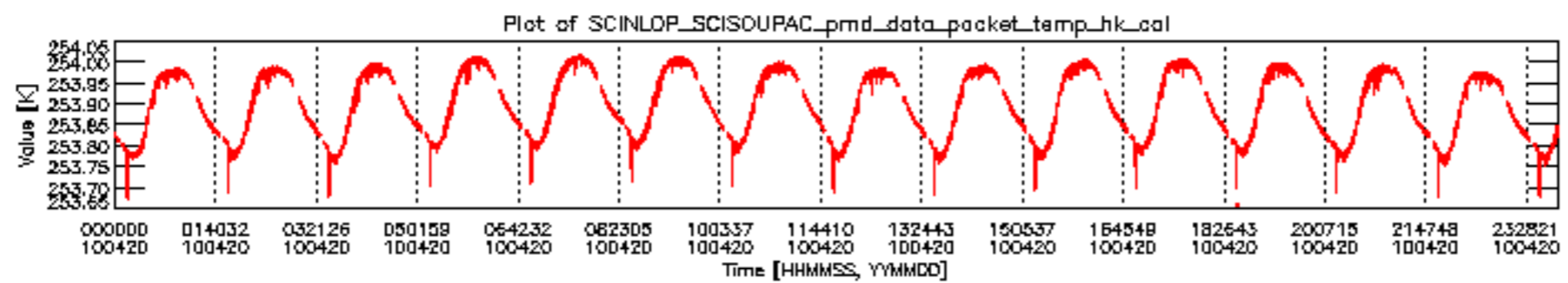
sciamachy\_daily\_report\_level0\_Any\_version\_20100420\_8.PNG

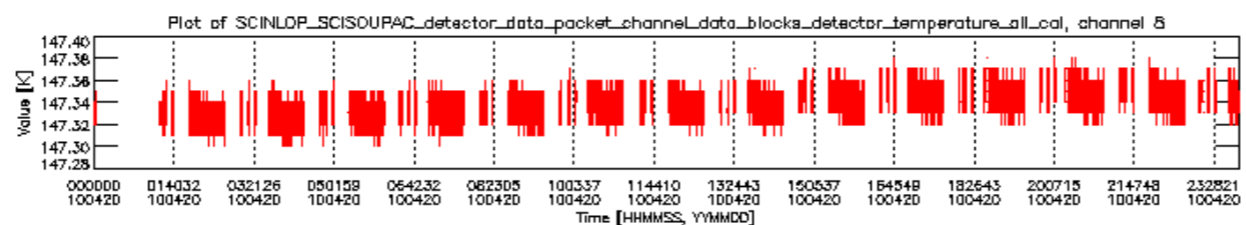
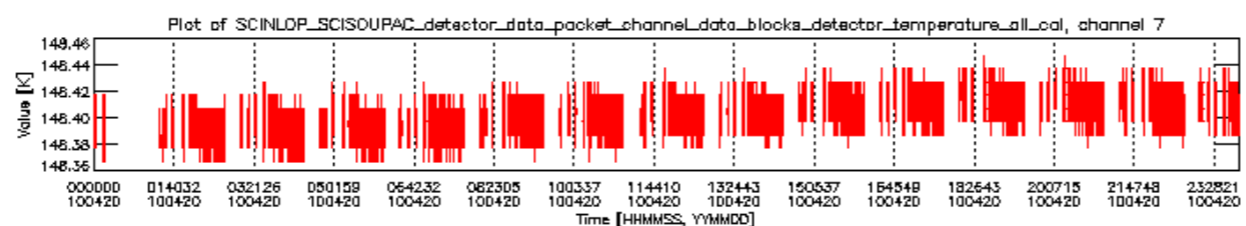
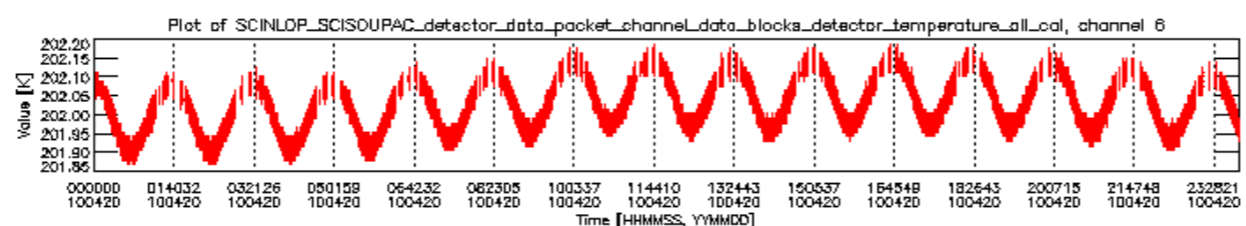
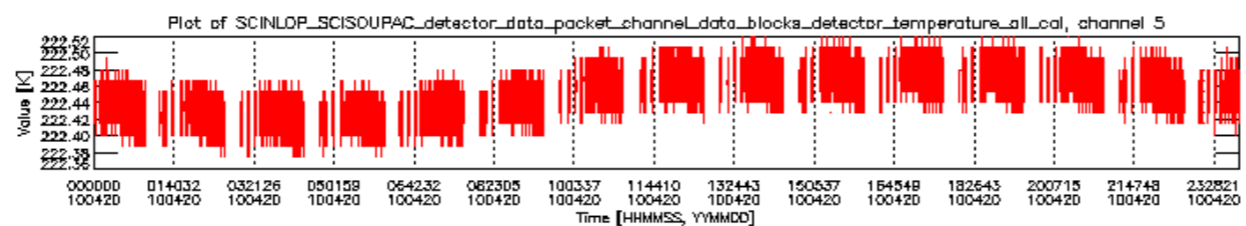
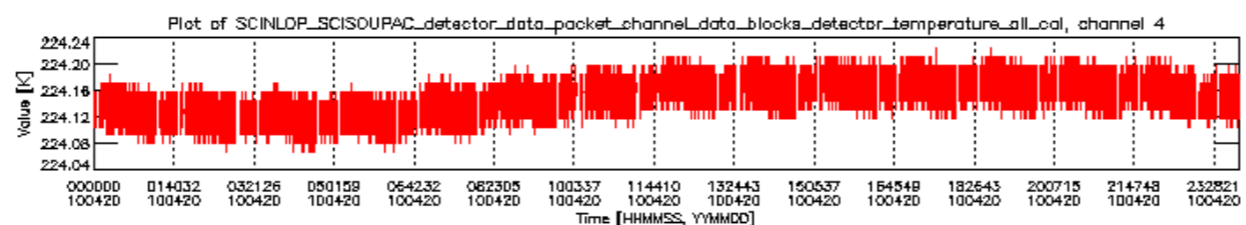
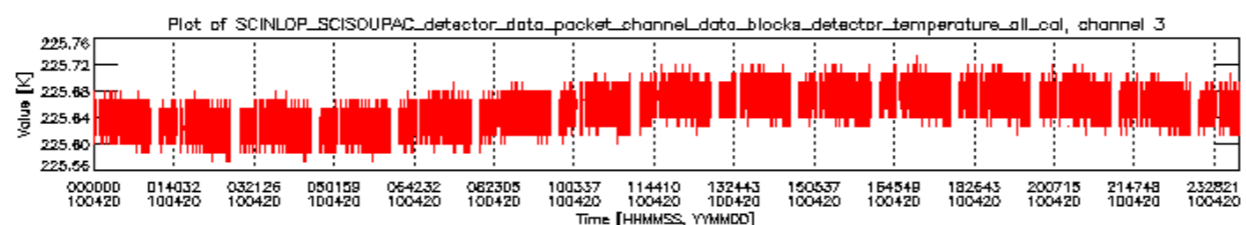
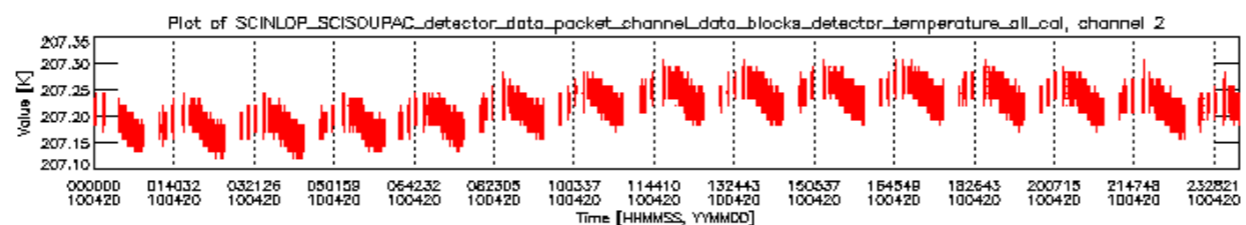
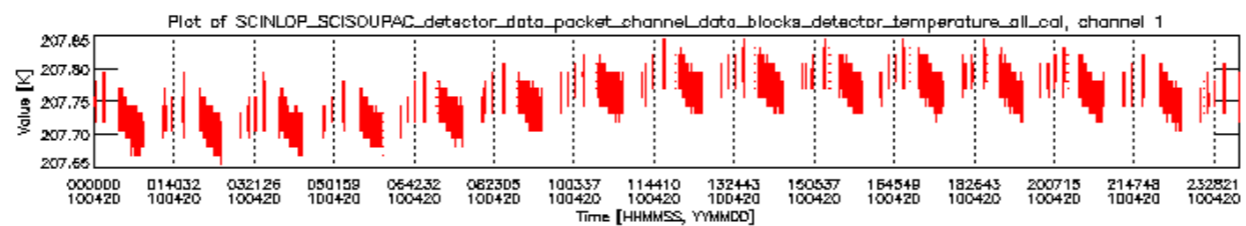














Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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