

## 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	07MAY2010 14:59:47
Data source version	<Any version>
Processing scope for products	30APR2010 00:00:00 to 01MAY2010 00:00:00
Start time of first product within scope	30APR2010 01:13:58
Stop time of last product within scope	01MAY2010 00:44:27
Total number of Level 0 products	15
Number of Level 0 products with errors	1

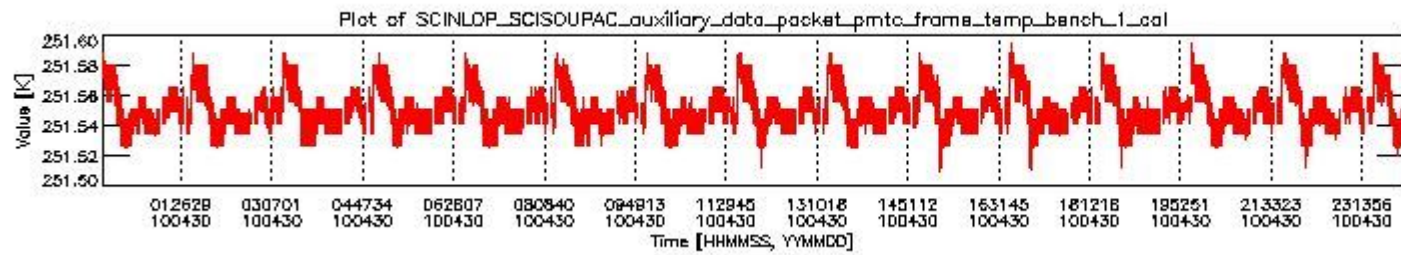
### 0.1.2 Summary per product

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

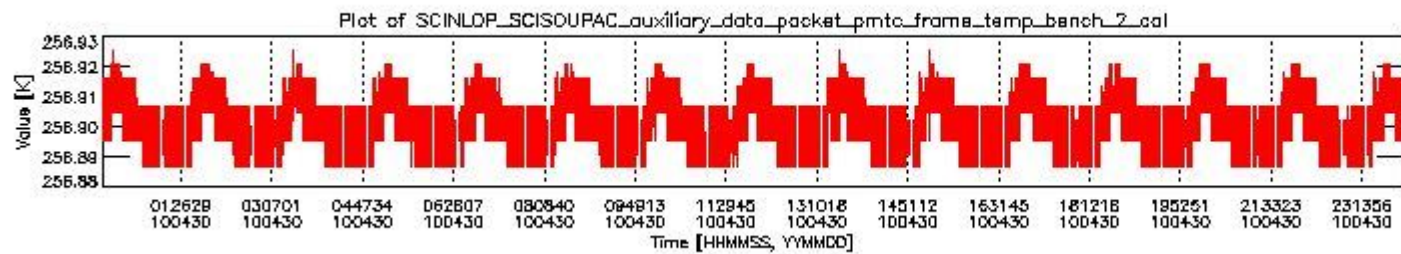
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100430_011358_000096912089_00045_42684_1358.N1	30APR2010 01:13:58	30APR2010 03:55:29	0	0	0	0	0
1	SCI_NL__OPNPDE20100430_035420_000068512089_00047_42686_1359.N1	30APR2010 03:54:20	30APR2010 05:48:31	0	0	0	0	0
2	SCI_NL__OPNPDK20100430_054831_000041012089_00048_42687_1262.N1	30APR2010 05:48:31	30APR2010 06:56:52	0	0	0	0	0
3	SCI_NL__OPNPDK20100430_065652_000061042089_00049_42688_1263.N1	30APR2010 06:56:52	30APR2010 08:38:36	1	1	0	0	0
4	SCI_NL__OPNPDK20100430_083836_000059672089_00050_42689_1264.N1	30APR2010 08:38:36	30APR2010 10:18:03	0	0	0	0	0
5	SCI_NL__OPNPDK20100430_101707_000060362089_00051_42690_1265.N1	30APR2010 10:17:07	30APR2010 11:57:43	0	0	0	0	0
6	SCI_NL__OPNPDK20100430_115647_000059672089_00052_42691_1266.N1	30APR2010 11:56:47	30APR2010 13:36:14	0	0	0	0	0
7	SCI_NL__OPNPDK20100430_133505_000059802089_00053_42692_1267.N1	30APR2010 13:35:05	30APR2010 15:14:45	0	0	0	0	0
8	SCI_NL__OPNPDK20100430_151445_000058432089_00054_42693_1268.N1	30APR2010 15:14:45	30APR2010 16:52:08	0	0	0	0	0
9	SCI_NL__OPNPDK20100430_165112_000058722089_00055_42694_1269.N1	30APR2010 16:51:12	30APR2010 18:29:04	0	0	0	0	0
10	SCI_NL__OPNPDK20100430_182756_000049502089_00056_42695_1270.N1	30APR2010 18:27:56	30APR2010 19:50:25	0	0	0	0	0
11	SCI_NL__OPNPDK20100430_195025_000010862089_00056_42695_1271.N1	30APR2010 19:50:25	30APR2010 20:08:31	0	0	0	0	0
12	SCI_NL__OPNPDE20100430_200640_000043772089_00057_42696_1360.N1	30APR2010 20:06:40	30APR2010 21:19:36	0	0	0	0	0
13	SCI_NL__OPNPDE20100430_211852_000062482089_00057_42696_1361.N1	30APR2010 21:18:52	30APR2010 23:03:00	0	0	0	0	0
14	SCI_NL__OPNPDE20100430_230226_000061212089_00058_42697_1362.N1	30APR2010 23:02:26	01MAY2010 00:44:27	0	0	0	0	0

## 0.2 Product Quality Indicators

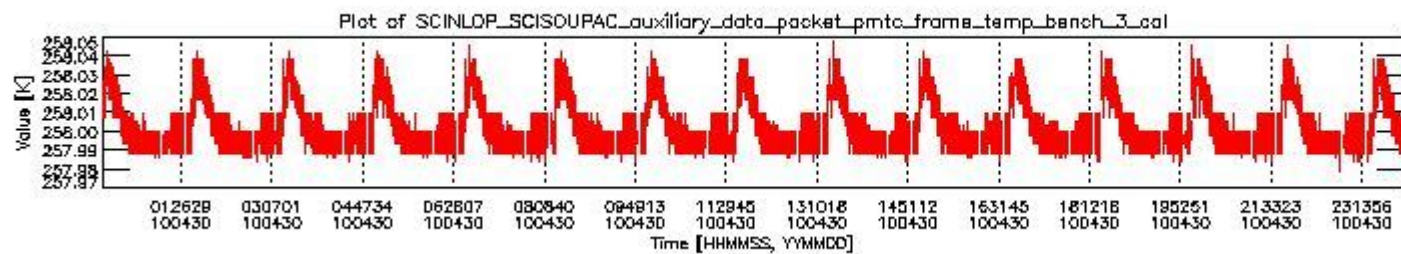
This section shows information about product quality, currently temperatures.



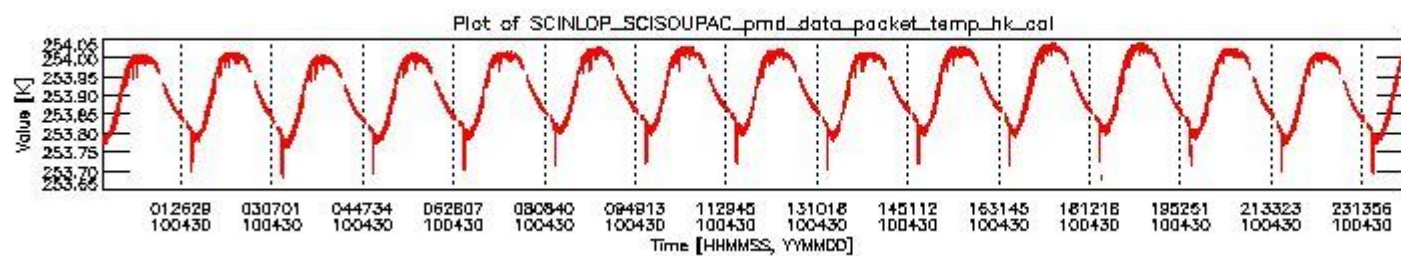
sciamachy\_daily\_report\_level0\_Any\_version\_20100430\_0.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100430\_1.PNG

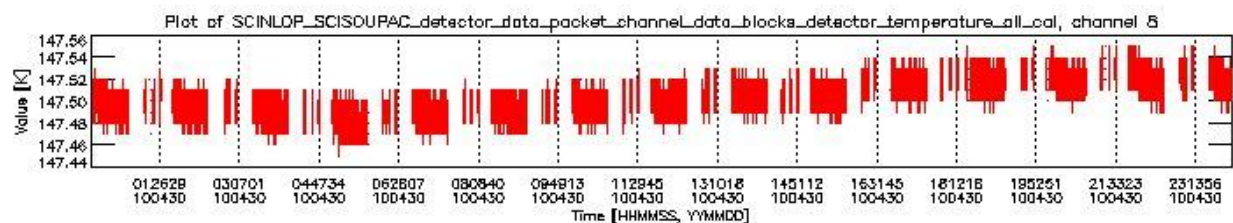
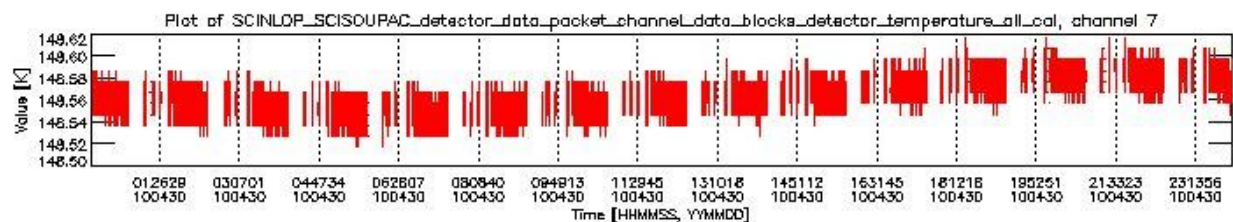
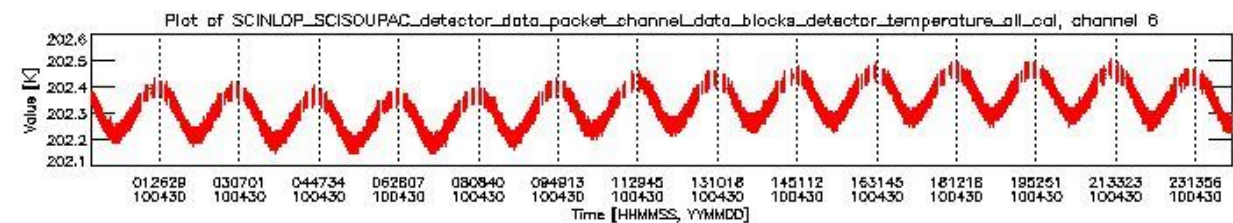
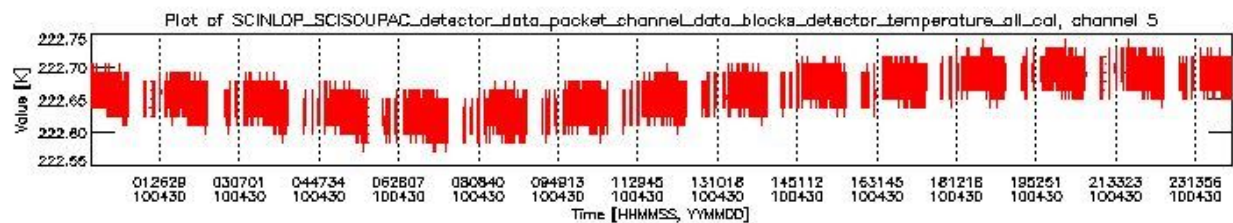
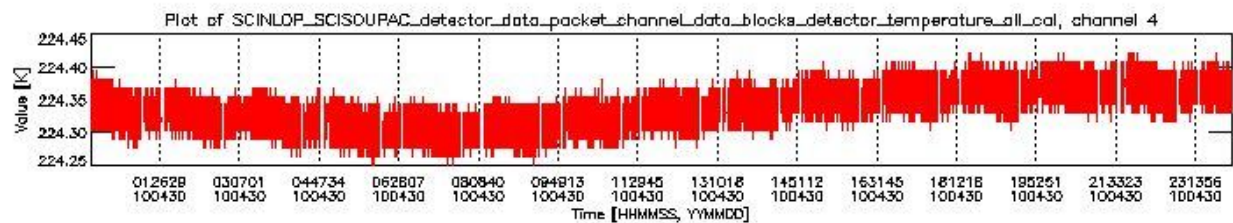
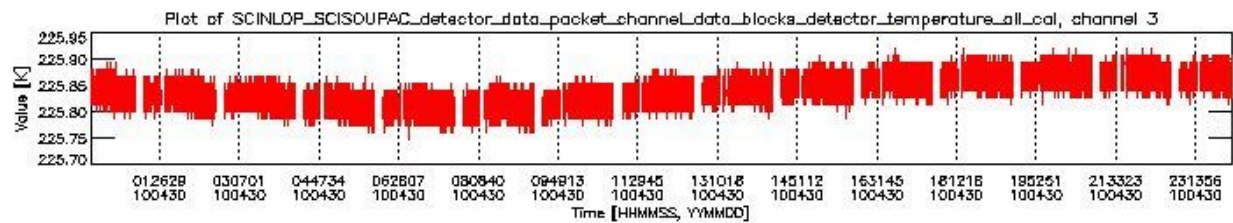
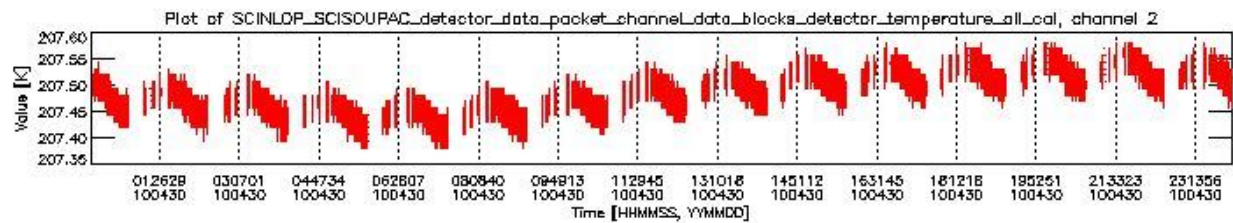
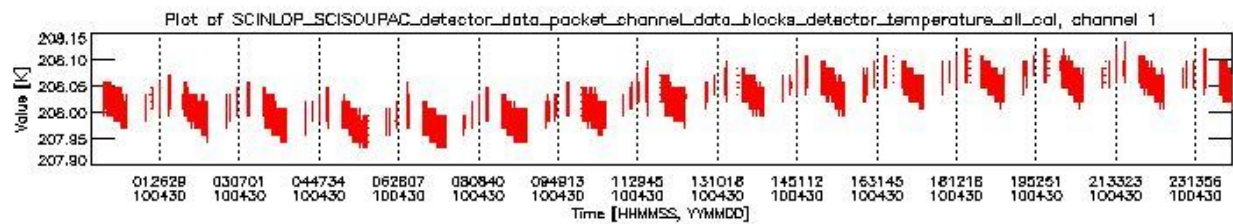


sciamachy\_daily\_report\_level0\_Any\_version\_20100430\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100430\_3.PNG



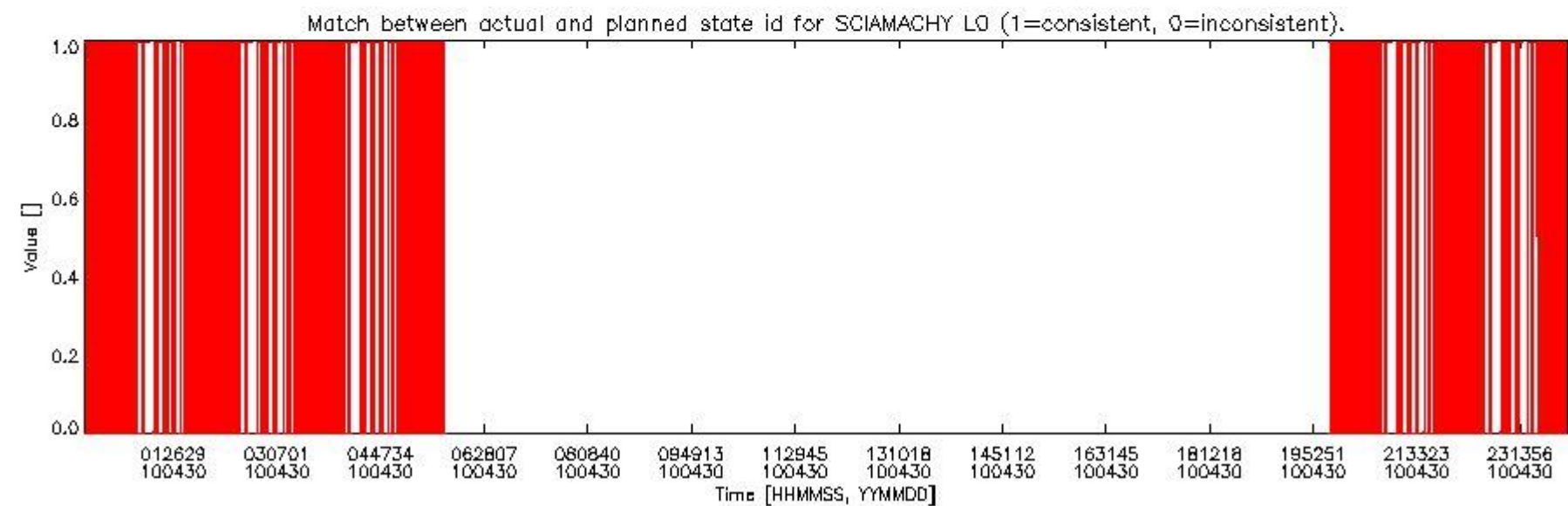
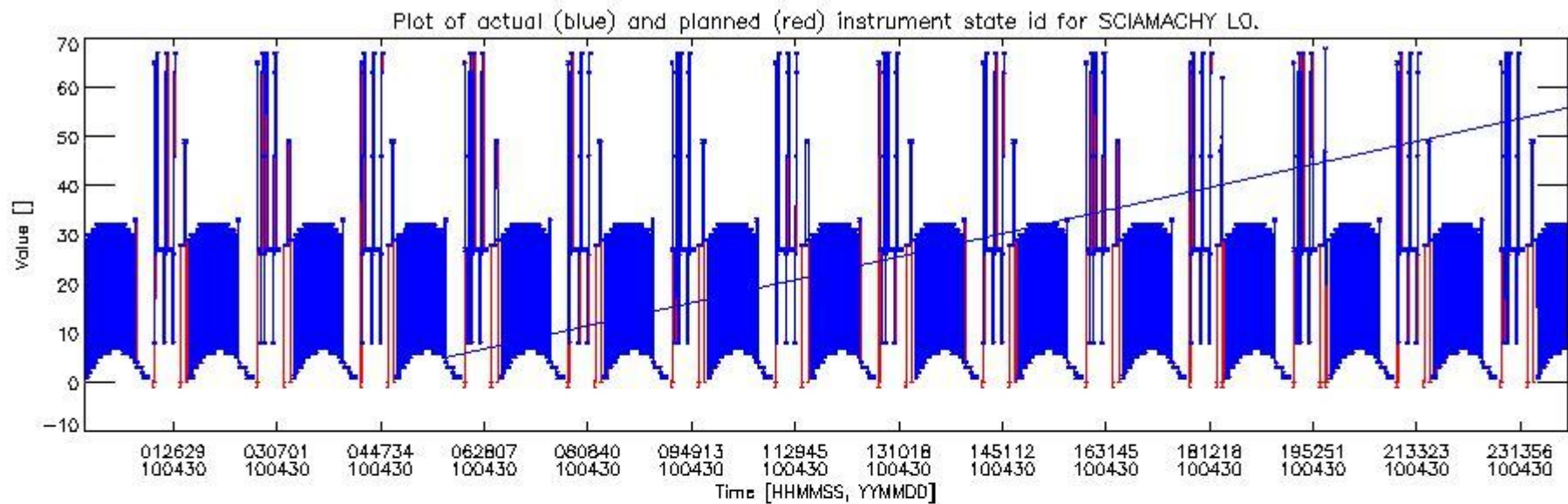


### 0.3 State monitoring

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: **40683**

#	Actual time	Actual value	Planned time	Planned value
0	30APR2010 00:02:03.312663	1	30APR2010 00:02:03.312663	29
1	30APR2010 00:02:03.562663	1	30APR2010 00:02:03.562663	29
2	30APR2010 00:02:03.687663	1	30APR2010 00:02:03.687663	29
3	30APR2010 00:02:03.812663	1	30APR2010 00:02:03.812663	29
4	30APR2010 00:02:03.937663	1	30APR2010 00:02:03.937663	29
5	30APR2010 00:02:04.062663	1	30APR2010 00:02:04.062663	29
6	30APR2010 00:02:04.187663	1	30APR2010 00:02:04.187663	29
7	30APR2010 00:02:04.312663	1	30APR2010 00:02:04.312663	29
8	30APR2010 00:02:04.437663	1	30APR2010 00:02:04.437663	29
9	30APR2010 00:02:04.562663	1	30APR2010 00:02:04.562663	29
10	30APR2010 00:02:04.687663	1	30APR2010 00:02:04.687663	29
11	30APR2010 00:02:04.812663	1	30APR2010 00:02:04.812663	29
12	30APR2010 00:02:04.937663	1	30APR2010 00:02:04.937663	29
13	30APR2010 00:02:05.062663	1	30APR2010 00:02:05.062663	29
14	30APR2010 00:02:05.187663	1	30APR2010 00:02:05.187663	29
15	30APR2010 00:02:05.312663	1	30APR2010 00:02:05.312663	29
16	30APR2010 00:02:05.437663	1	30APR2010 00:02:05.437663	29
17	30APR2010 00:02:05.562663	1	30APR2010 00:02:05.562663	29
18	30APR2010 00:02:05.687663	1	30APR2010 00:02:05.687663	29
19	30APR2010 00:02:05.812663	1	30APR2010 00:02:05.812663	29
	...	...	...	...



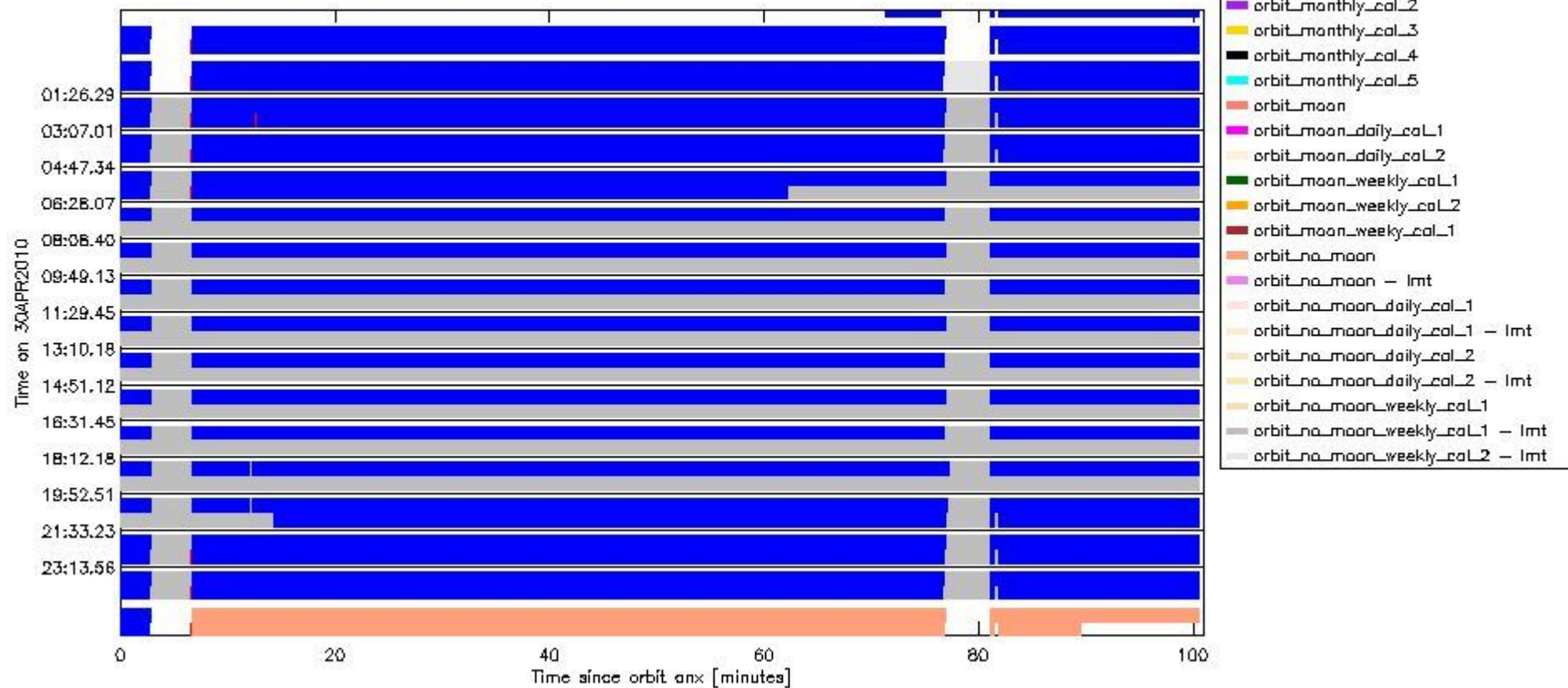
sciamachy\_daily\_report\_level0\_Any\_version\_20100430\_5.PNG

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 3QAPR2010.  
 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\_20100430\_6.PNG

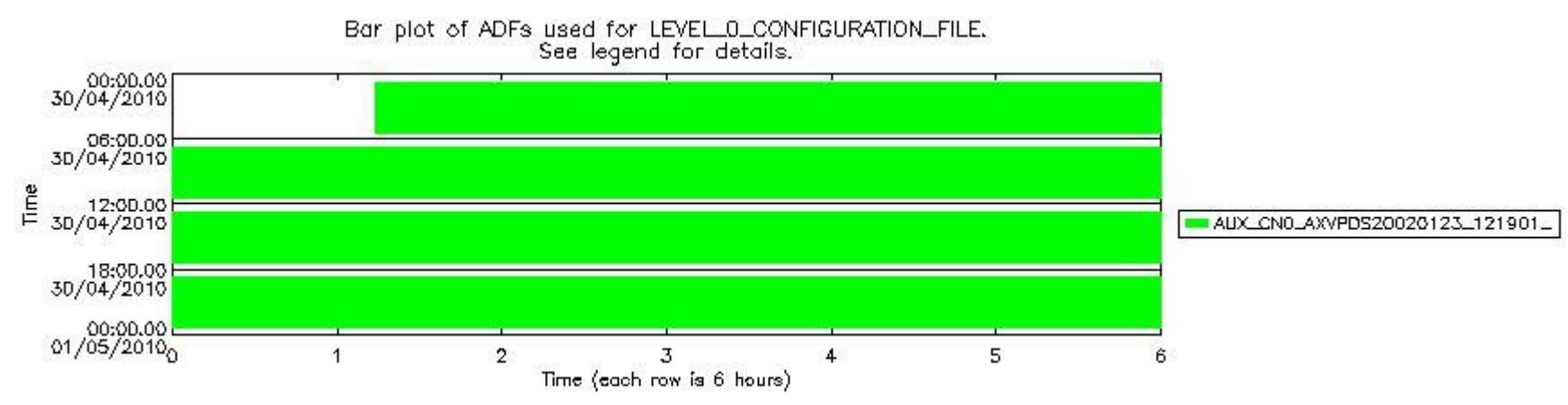
## 0.4 ADF monitoring

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

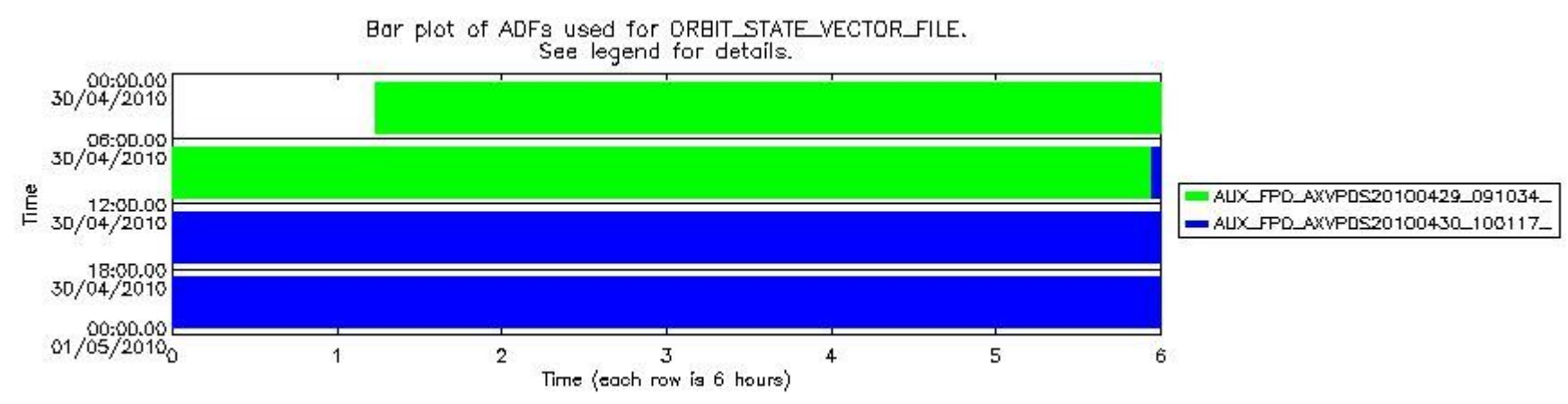
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

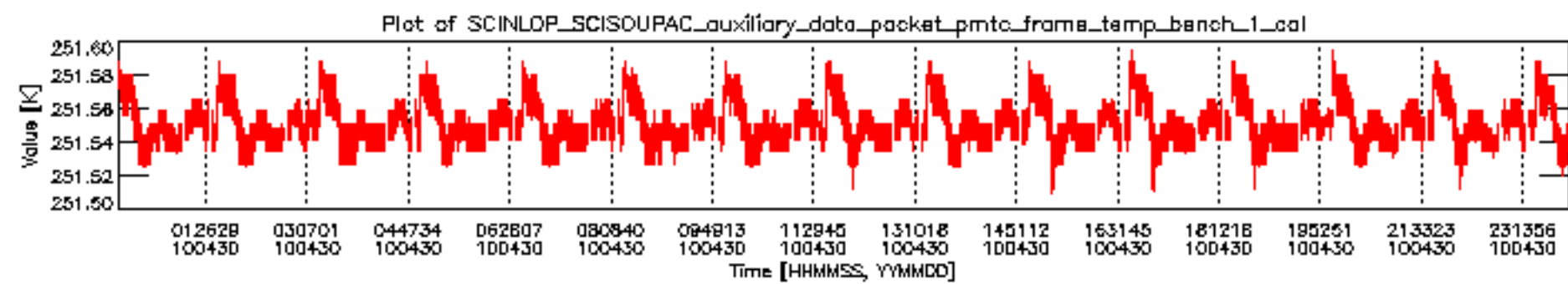
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20100429_091034_20100428_191529_20100508_204144
2	AUX_FPO_AXVPDS20100430_100117_20100429_184352_20100509_201007



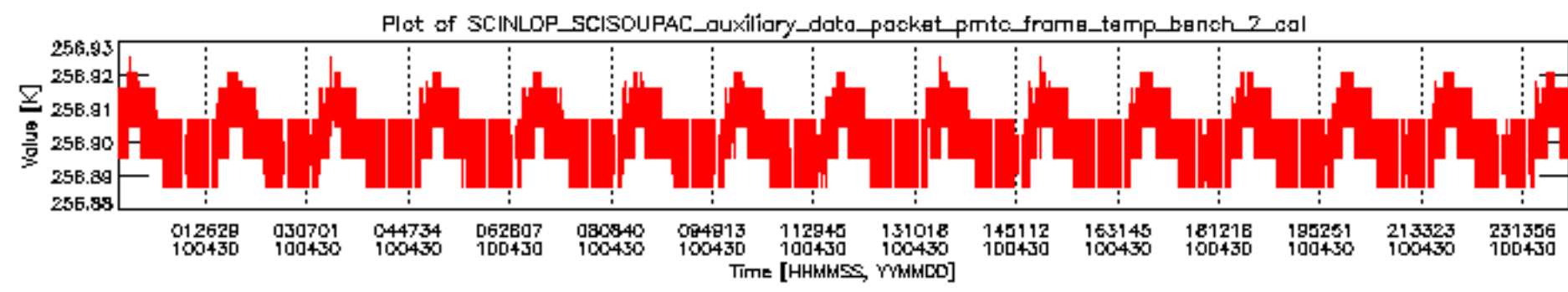
sciamachy\_daily\_report\_level0\_Any\_version\_20100430\_7.PNG

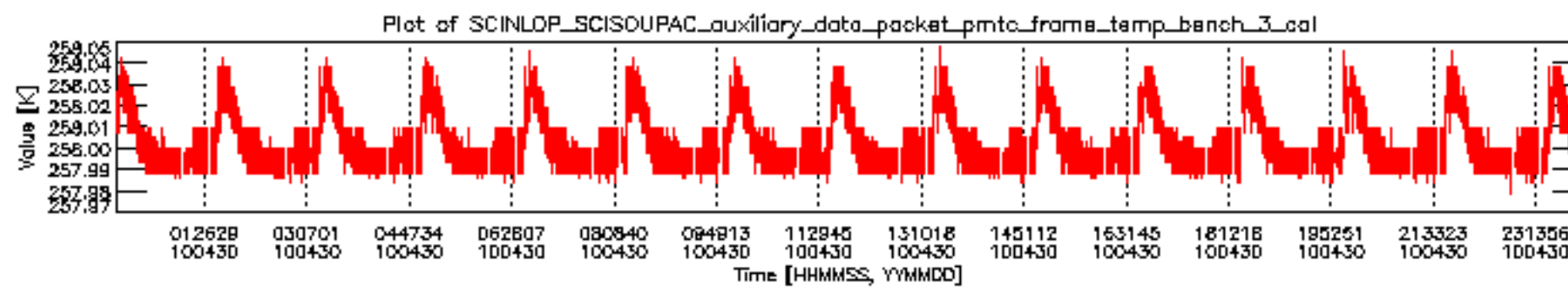


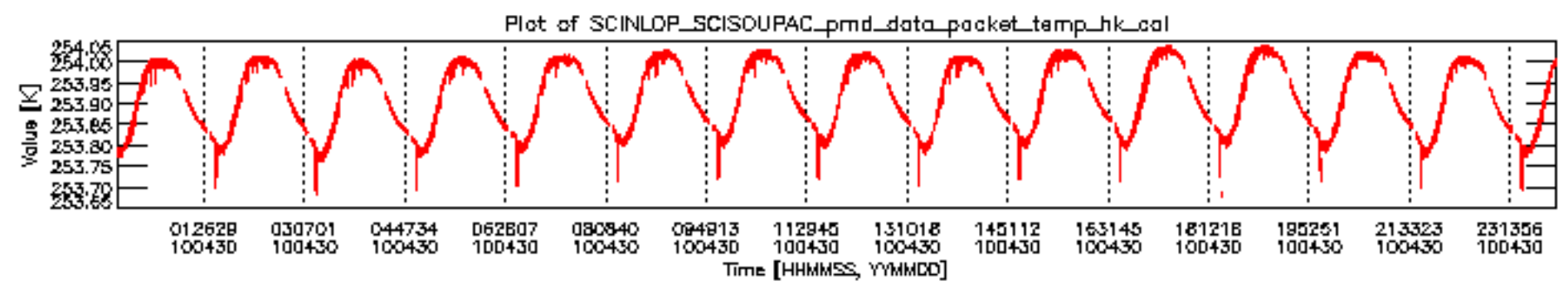
sciamachy\_daily\_report\_level0\_Any\_version\_20100430\_8.PNG

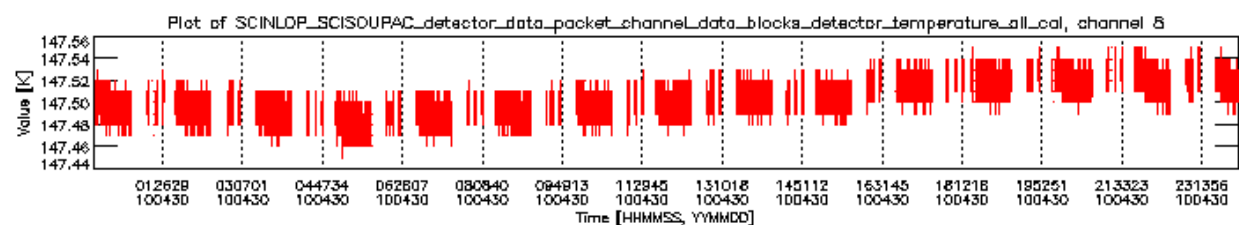
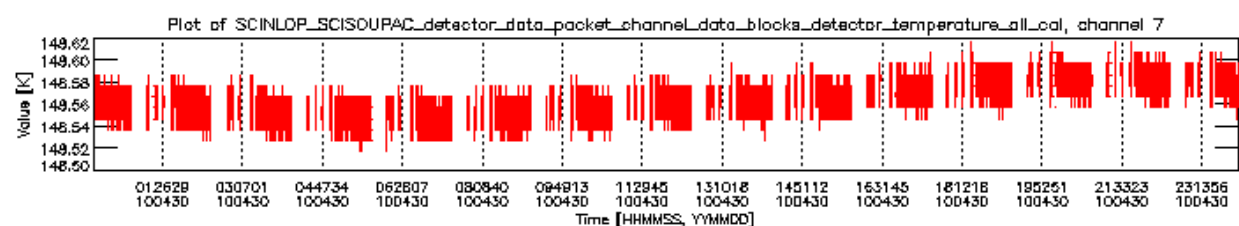
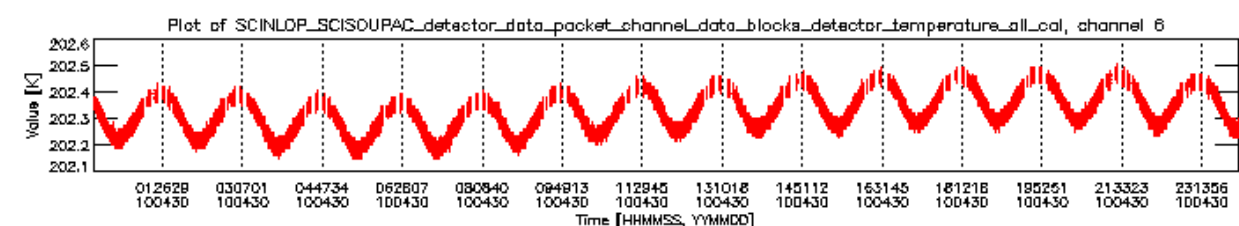
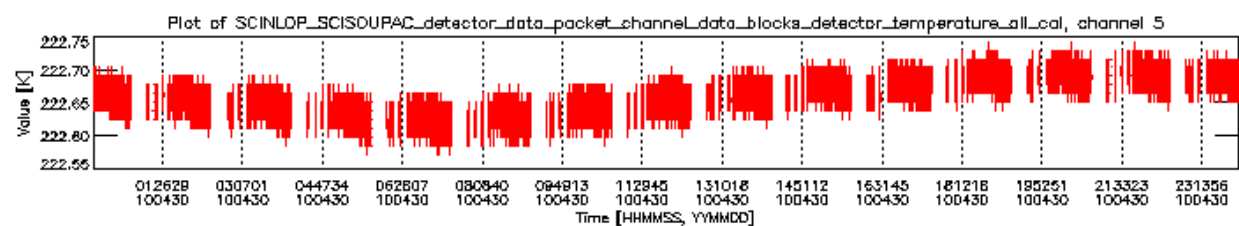
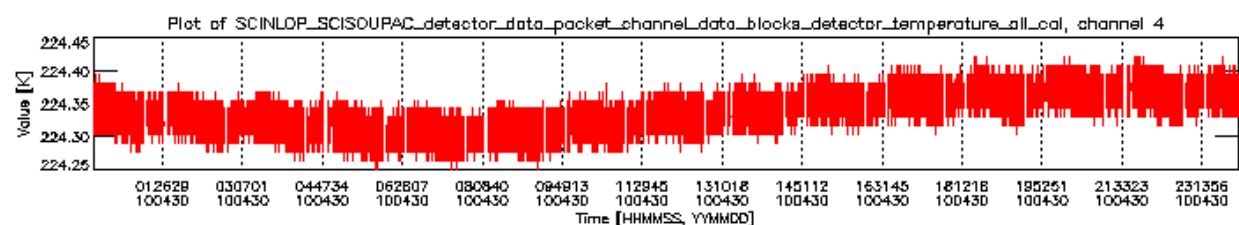
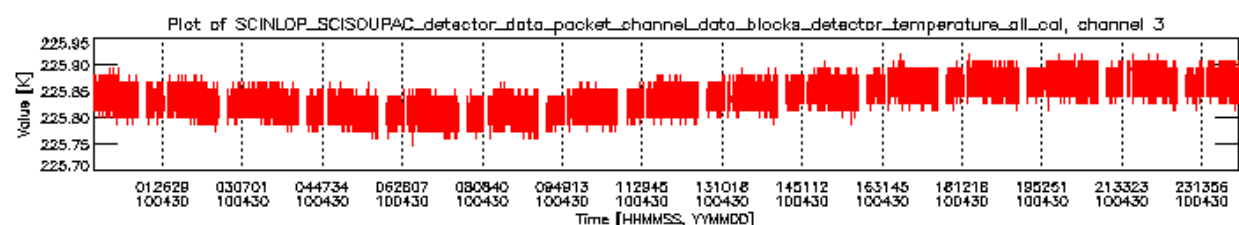
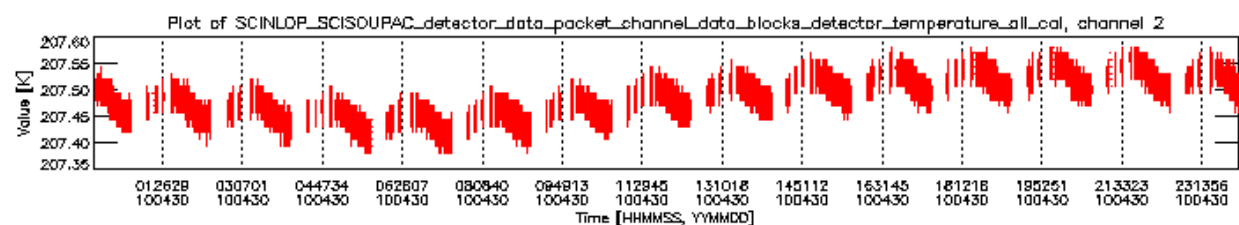
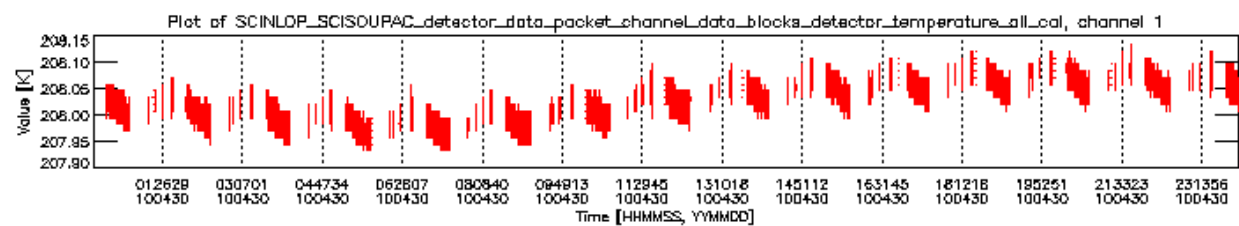
















Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 30APR2010.  
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