

## 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	v1.3 20060731
Time of report generation	24JAN2009 06:04:52
Data source version	KSPT_L0/4303-N
Processing scope for products	20JAN2009 00:00:00 to 21JAN2009 00:00:00
Start time of first product within scope	19JAN2009 23:52:37
Stop time of last product within scope	21JAN2009 00:54:10
Total number of level 0 products	16
Number of level 0 products with errors	0

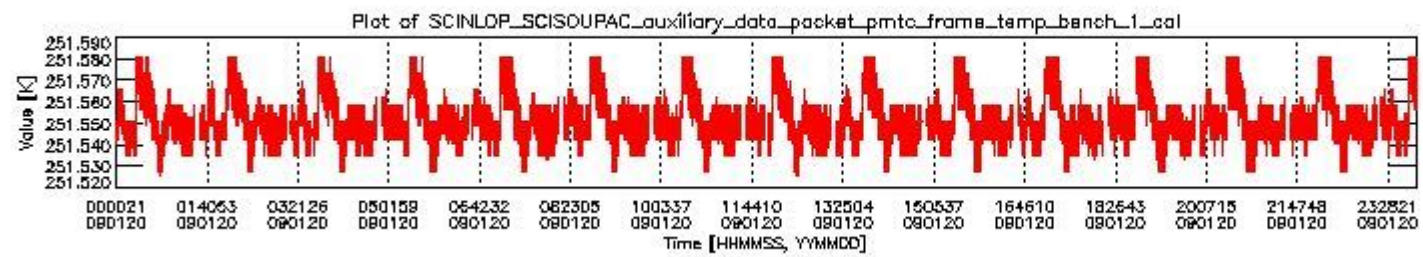
### 0.1.2 Summary per product

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

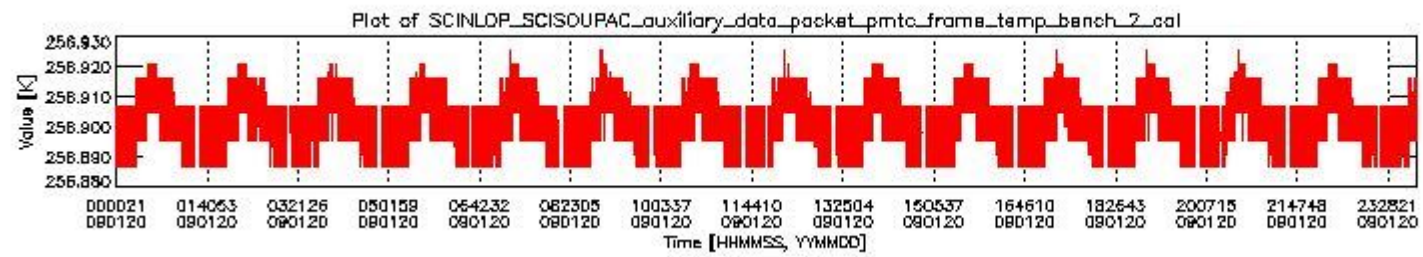
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090119_235237_000055942075_00402_36027_8327.N1	19JAN2009 23:52:37	20JAN2009 01:25:52	0	0	0	0	0
1	SCI_NL__OPNPDE20090120_012552_000047962075_00403_36028_8328.N1	20JAN2009 01:25:52	20JAN2009 02:45:48	0	0	0	0	0
2	SCI_NL__OPNPDE20090120_024452_000057742075_00404_36029_8329.N1	20JAN2009 02:44:52	20JAN2009 04:21:06	0	0	0	0	0
3	SCI_NL__OPNPDE20090120_042106_000061042075_00405_36030_8330.N1	20JAN2009 04:21:06	20JAN2009 06:02:50	0	0	0	0	0
4	SCI_NL__OPNPDK20090120_060155_000042252075_00406_36031_0500.N1	20JAN2009 06:01:55	20JAN2009 07:12:20	0	0	0	0	0
5	SCI_NL__OPNPDK20090120_071015_000060362075_00407_36032_0501.N1	20JAN2009 07:10:15	20JAN2009 08:50:51	0	0	0	0	0
6	SCI_NL__OPNPDK20090120_084955_000061472075_00408_36033_0502.N1	20JAN2009 08:49:55	20JAN2009 10:32:22	0	0	0	0	0
7	SCI_NL__OPNPDK20090120_103018_000060482075_00409_36034_0503.N1	20JAN2009 10:30:18	20JAN2009 12:11:06	0	0	0	0	0
8	SCI_NL__OPNPDK20090120_120901_000060362075_00410_36035_0504.N1	20JAN2009 12:09:01	20JAN2009 13:49:37	0	0	0	0	0
9	SCI_NL__OPNPDK20090120_134841_000058422075_00411_36036_0505.N1	20JAN2009 13:48:41	20JAN2009 15:26:03	0	0	0	0	0
10	SCI_NL__OPNPDK20090120_152603_000059232075_00412_36037_0506.N1	20JAN2009 15:26:03	20JAN2009 17:04:46	0	0	0	0	0
11	SCI_NL__OPNPDK20090120_170254_000060362075_00413_36038_0507.N1	20JAN2009 17:02:54	20JAN2009 18:43:30	0	0	0	0	0
12	SCI_NL__OPNPDK20090120_184330_000060912075_00414_36039_0508.N1	20JAN2009 18:43:30	20JAN2009 20:25:01	0	0	0	0	0
13	SCI_NL__OPNPDE20090120_202405_000041622075_00415_36040_8331.N1	20JAN2009 20:24:05	20JAN2009 21:33:27	0	0	0	0	0
14	SCI_NL__OPNPDE20090120_213218_000060892075_00415_36040_8332.N1	20JAN2009 21:32:18	20JAN2009 23:13:47	0	0	0	0	0
15	SCI_NL__OPNPDE20090120_232057_000055932075_00416_36041_8333.N1	20JAN2009 23:20:57	21JAN2009 00:54:10	0	0	0	0	0

## 0.2 Product Quality Indicators

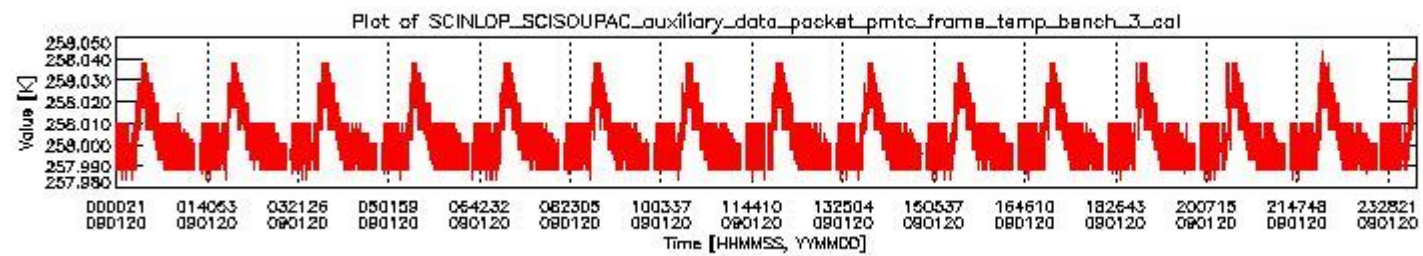
This section shows information about product quality, currently temperatures.



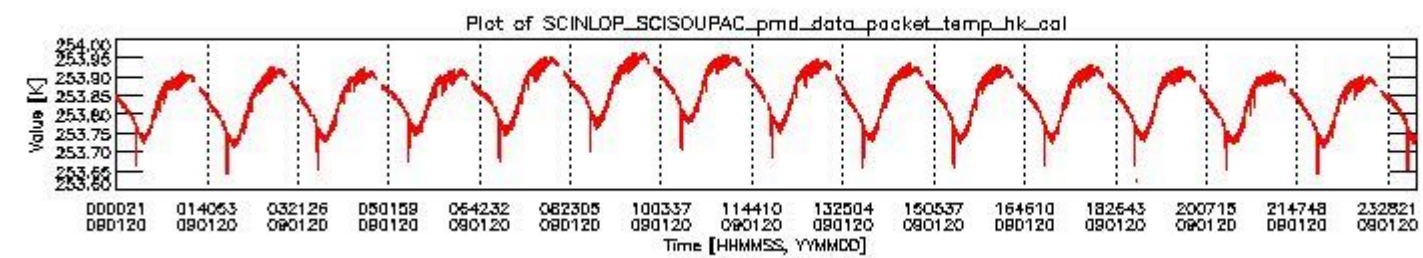
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090120\_0.PNG



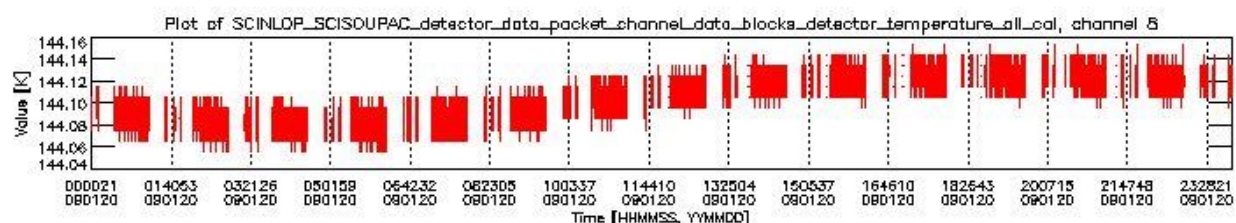
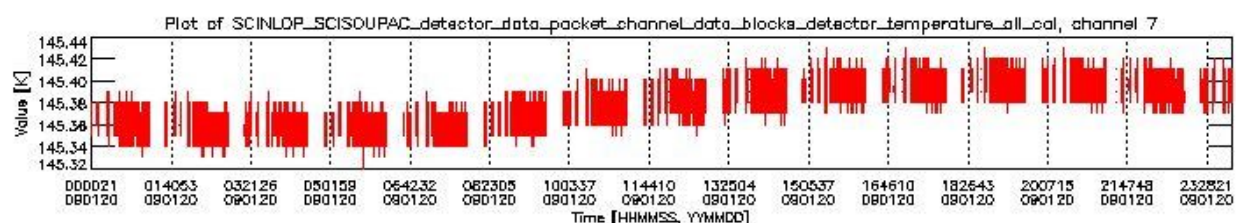
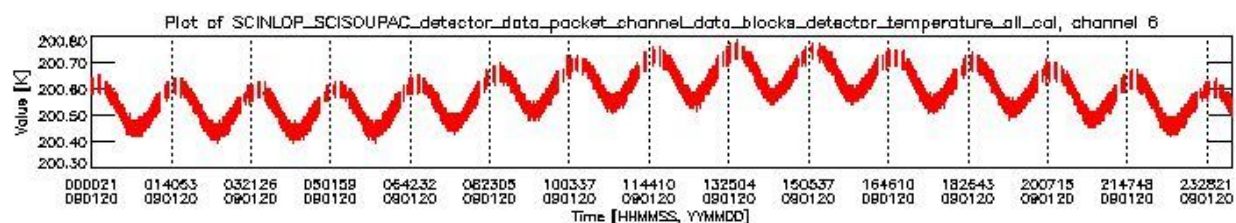
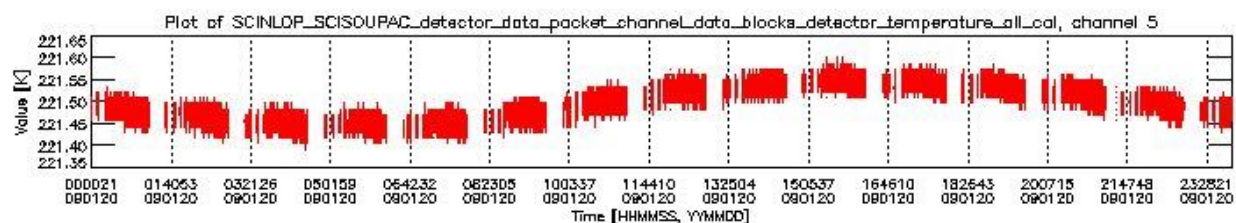
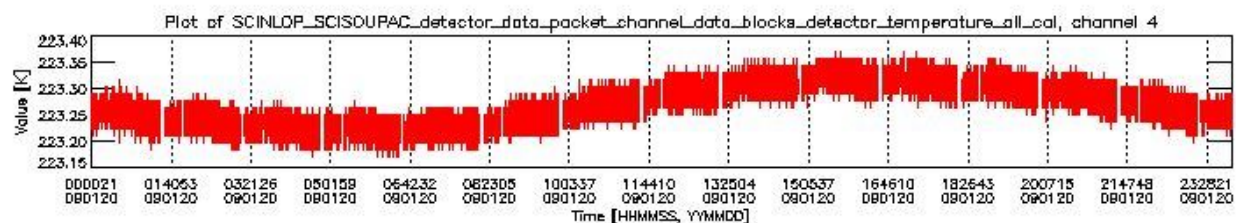
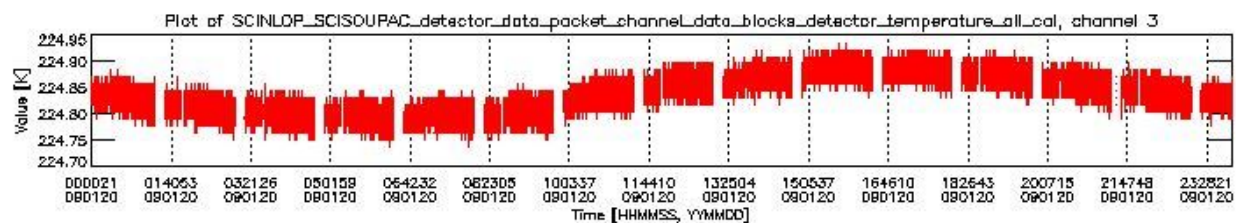
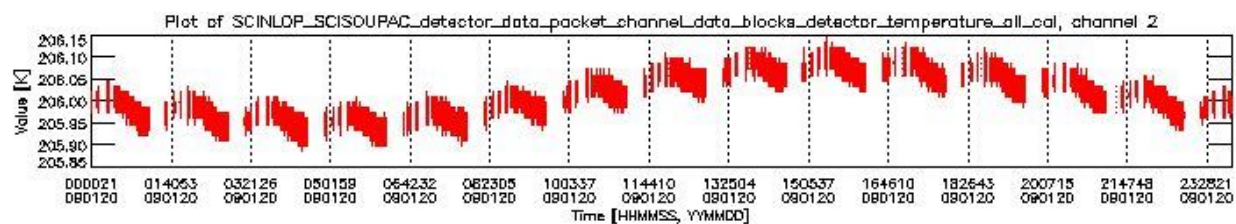
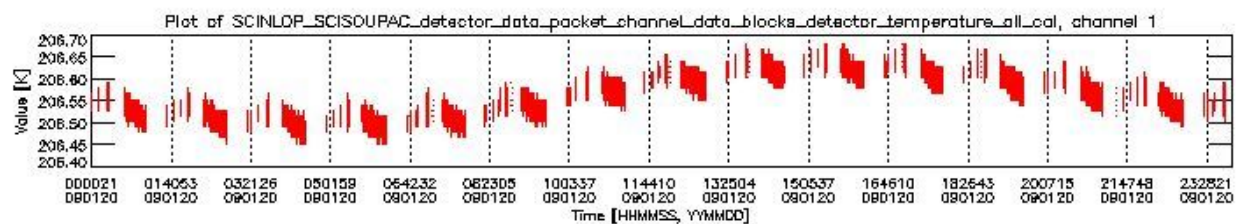
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090120\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090120\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090120\_3.PNG

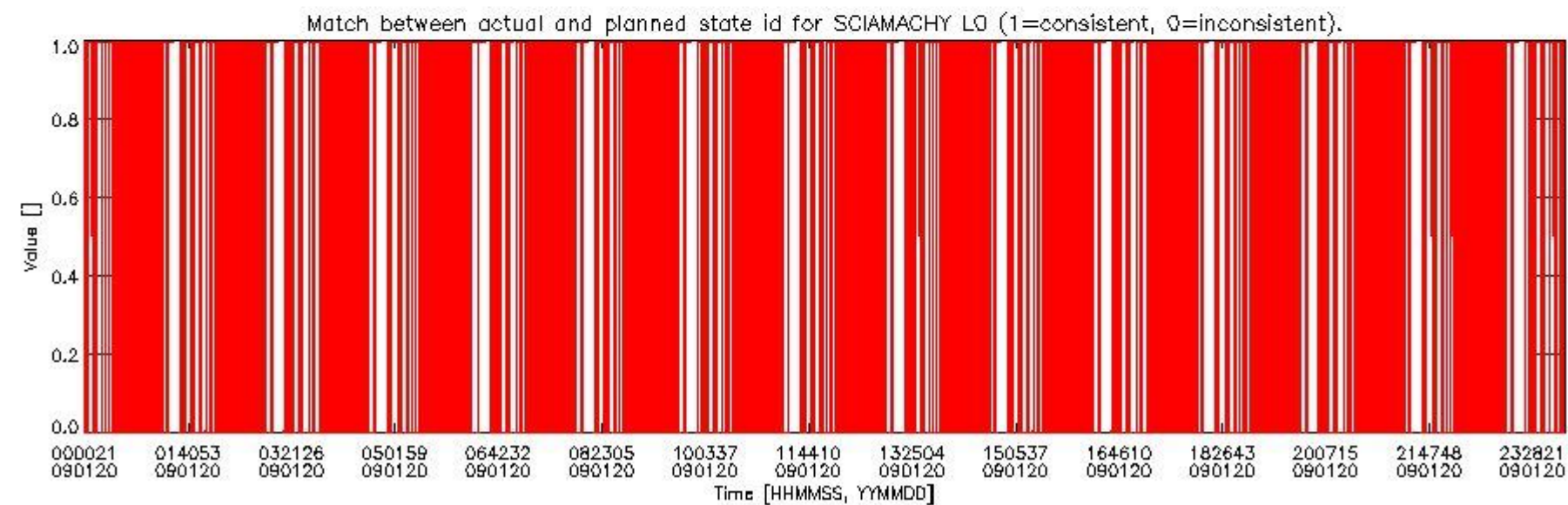
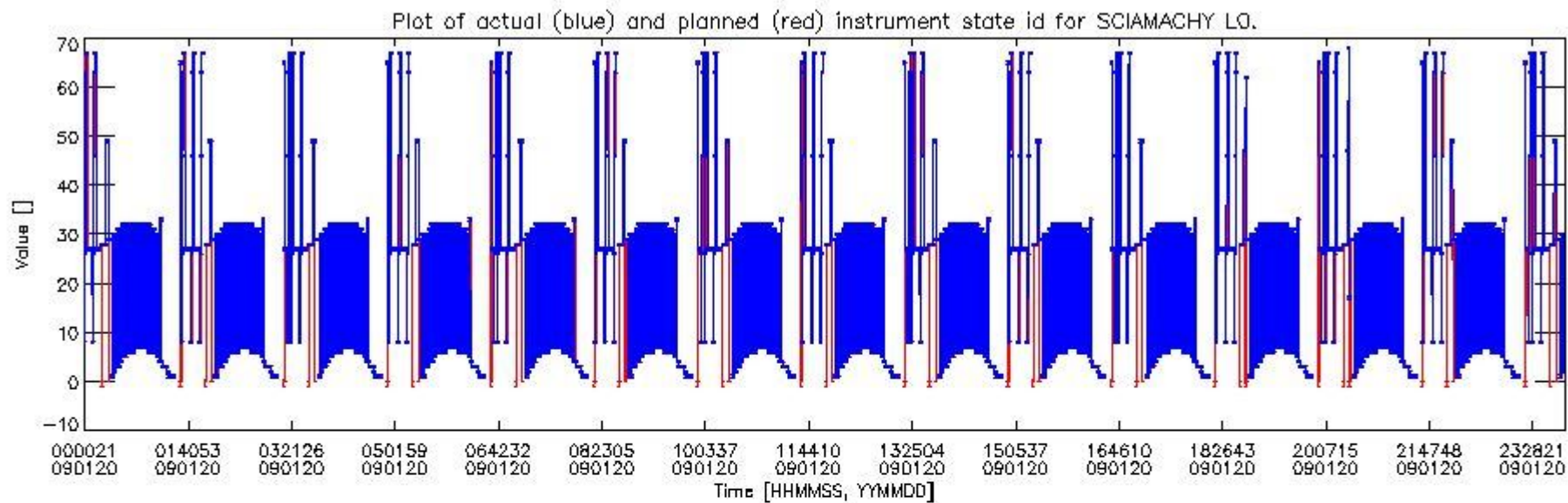


### 0.3 State monitoring

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: **57005**

#	Actual time	Actual value	Planned time	Planned value
0	20JAN2009 00:00:18.653208	46	20JAN2009 00:00:18.653208	26
1	20JAN2009 00:00:19.278230	46	20JAN2009 00:00:19.278230	26
2	20JAN2009 00:00:19.778207	46	20JAN2009 00:00:19.778207	26
3	20JAN2009 00:00:20.278224	46	20JAN2009 00:00:20.278224	26
4	20JAN2009 00:00:20.778202	46	20JAN2009 00:00:20.778202	26
5	20JAN2009 00:00:21.278219	46	20JAN2009 00:00:21.278219	26
6	20JAN2009 00:00:21.778236	46	20JAN2009 00:00:21.778236	26
7	20JAN2009 00:00:22.278214	46	20JAN2009 00:00:22.278214	26
8	20JAN2009 00:00:22.778231	46	20JAN2009 00:00:22.778231	26
9	20JAN2009 00:00:23.278208	46	20JAN2009 00:00:23.278208	26
10	20JAN2009 00:00:23.653221	46	20JAN2009 00:00:23.653221	26
11	20JAN2009 00:00:23.778225	46	20JAN2009 00:00:23.778225	26
12	20JAN2009 00:00:24.278203	46	20JAN2009 00:00:24.278203	26
13	20JAN2009 00:00:24.778220	46	20JAN2009 00:00:24.778220	26
14	20JAN2009 00:00:25.278237	46	20JAN2009 00:00:25.278237	26
15	20JAN2009 00:00:25.778215	46	20JAN2009 00:00:25.778215	26
16	20JAN2009 00:00:26.278232	46	20JAN2009 00:00:26.278232	26
17	20JAN2009 00:00:26.778209	46	20JAN2009 00:00:26.778209	26
18	20JAN2009 00:00:27.278227	46	20JAN2009 00:00:27.278227	26
19	20JAN2009 00:00:27.778204	46	20JAN2009 00:00:27.778204	26
	...	...	...	...

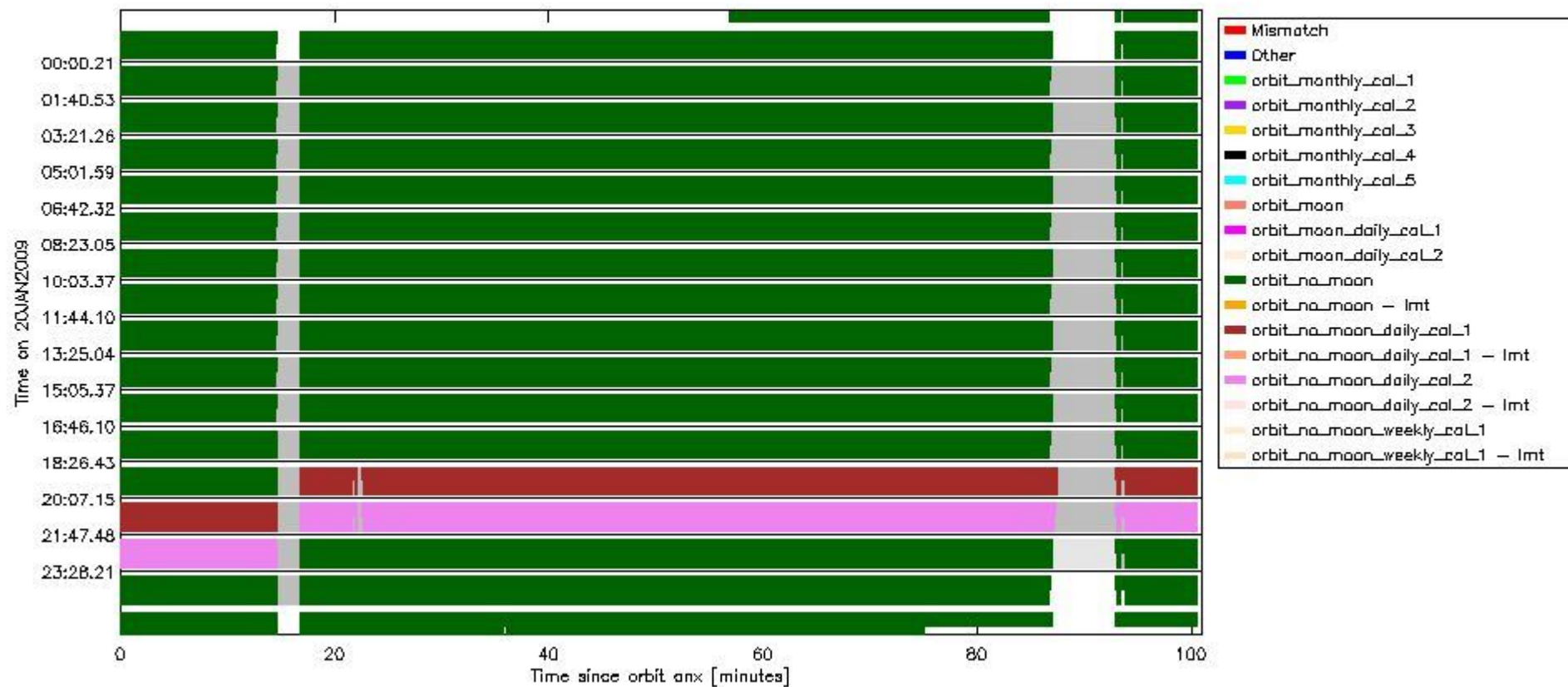


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090120\_5.PNG

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 20JAN2009.  
 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\_4303\_N\_20090120\_6.PNG

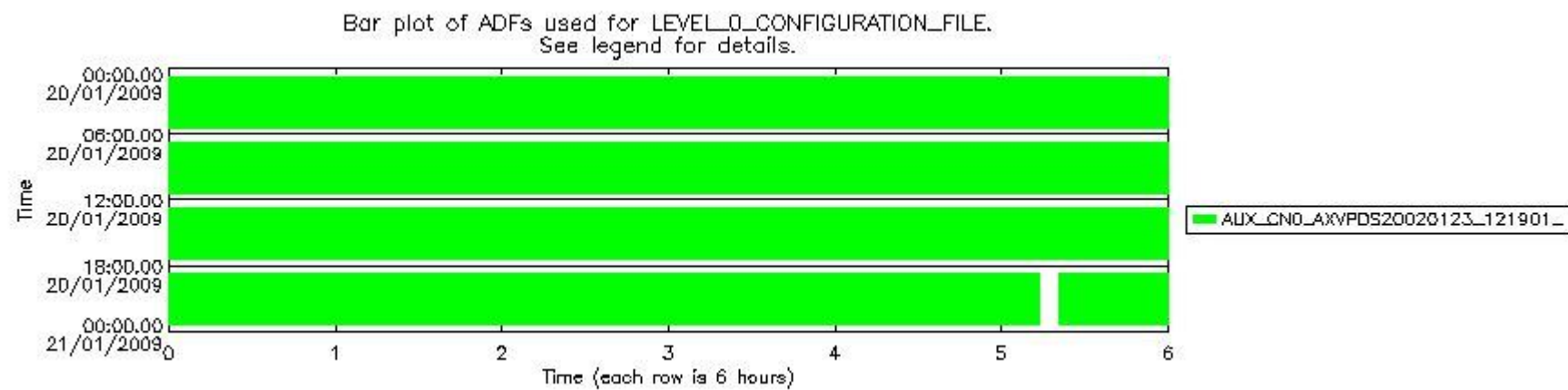
## 0.4 ADF monitoring

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

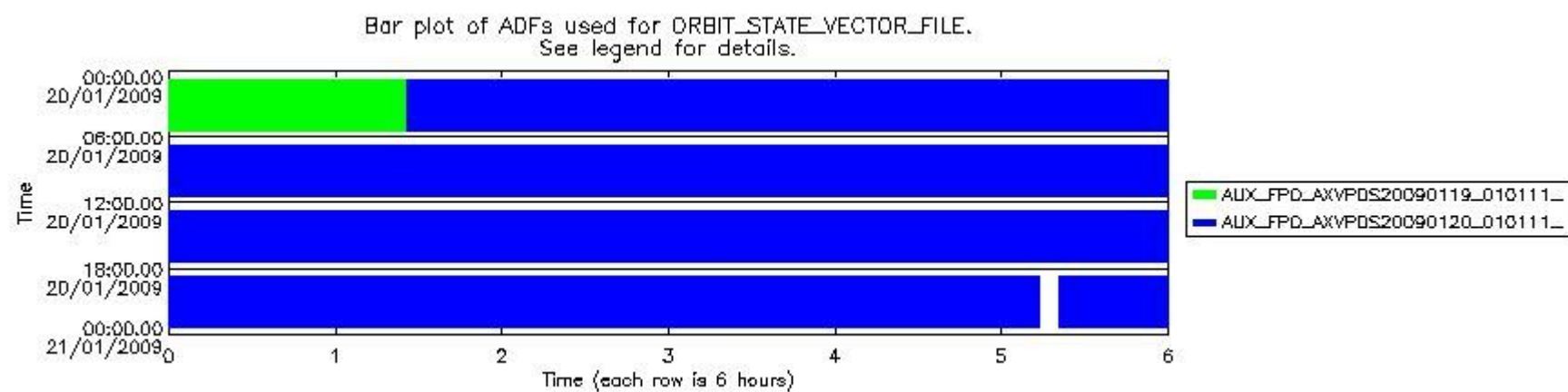
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

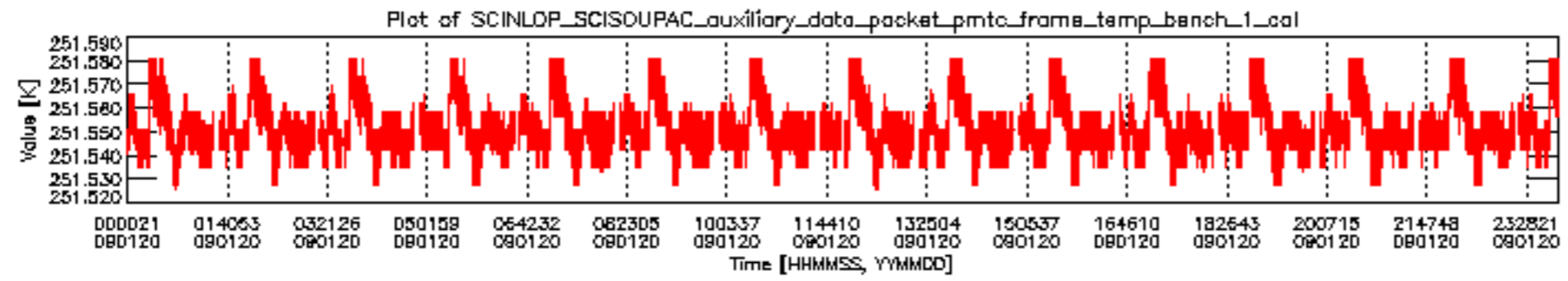
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090119_010111_20090118_192959_20090128_205611
2	AUX_FPO_AXVPDS20090120_010111_20090119_185822_20090129_202434



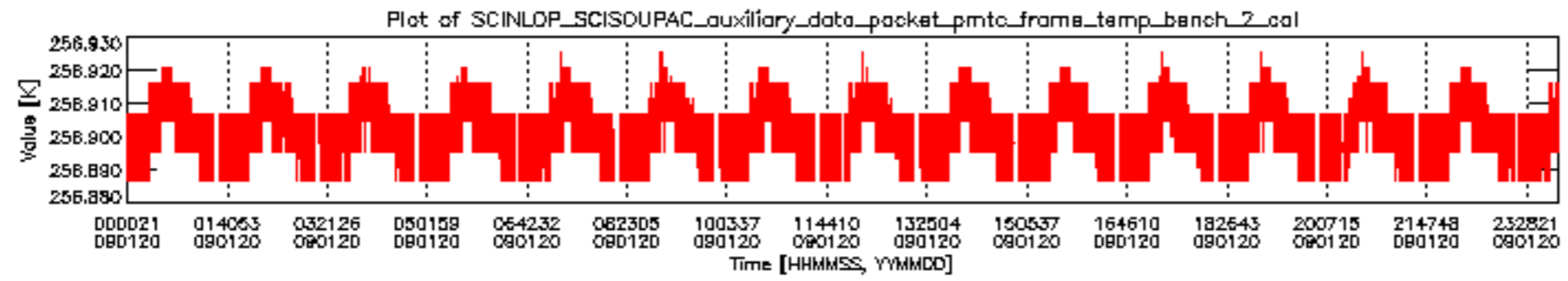
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090120\_7.PNG

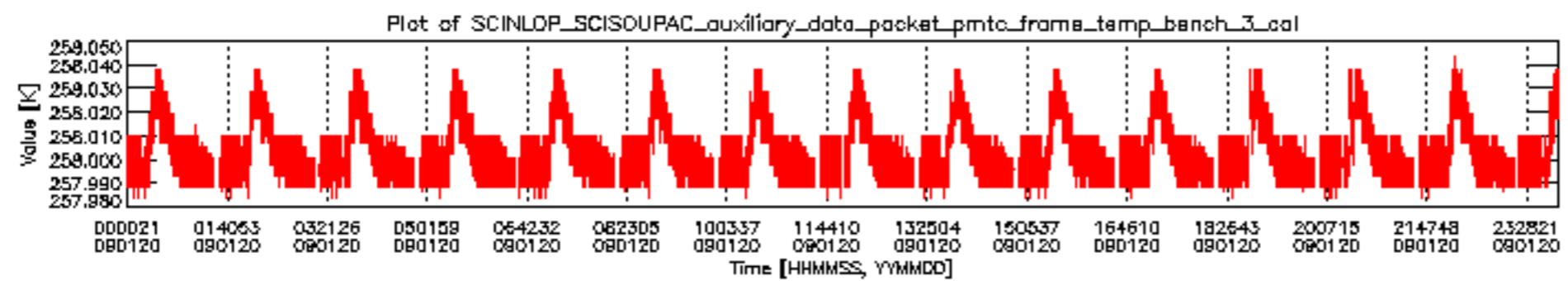


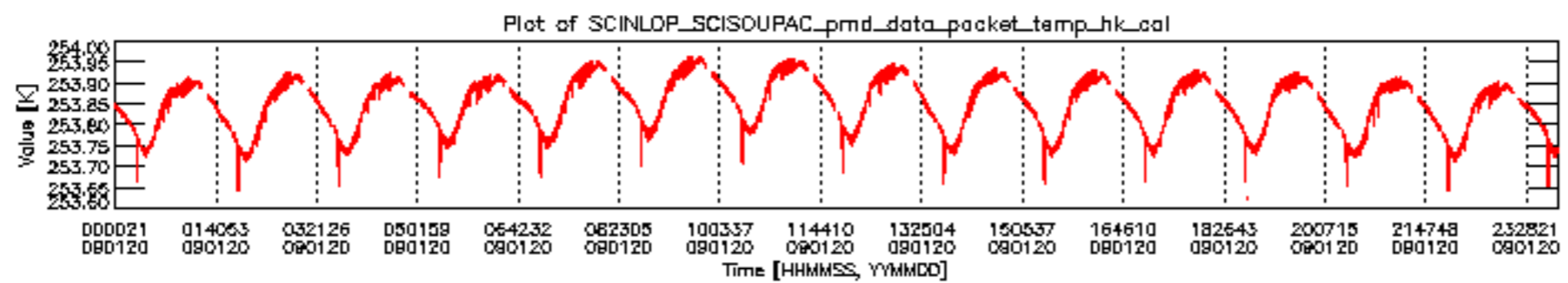
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090120\_8.PNG

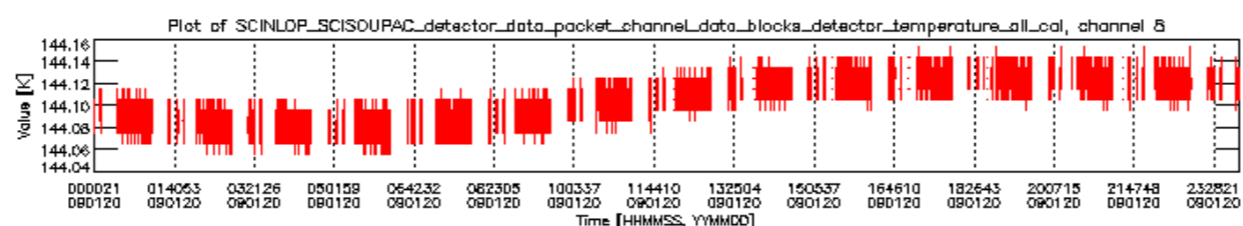
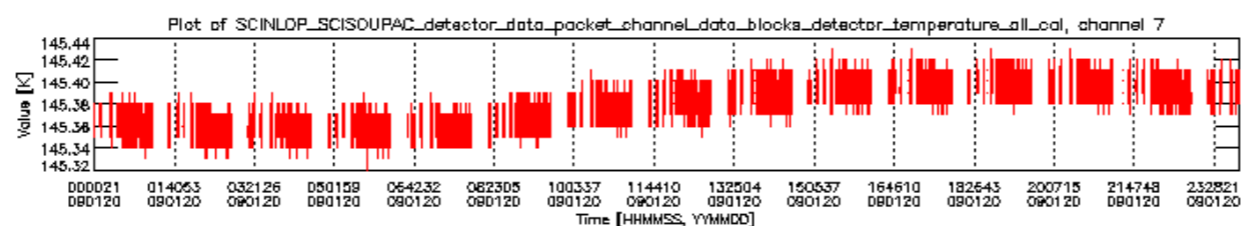
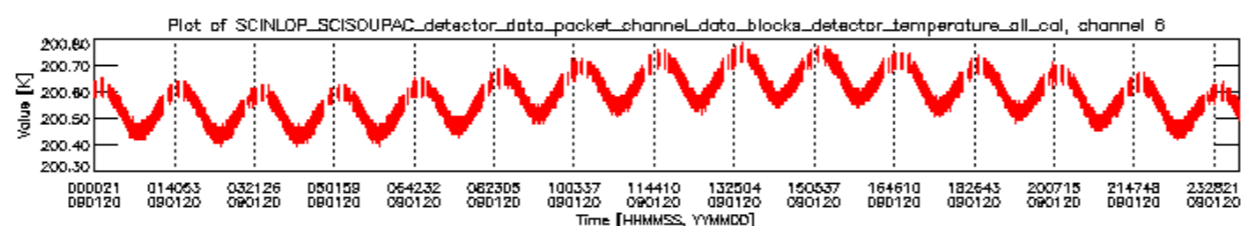
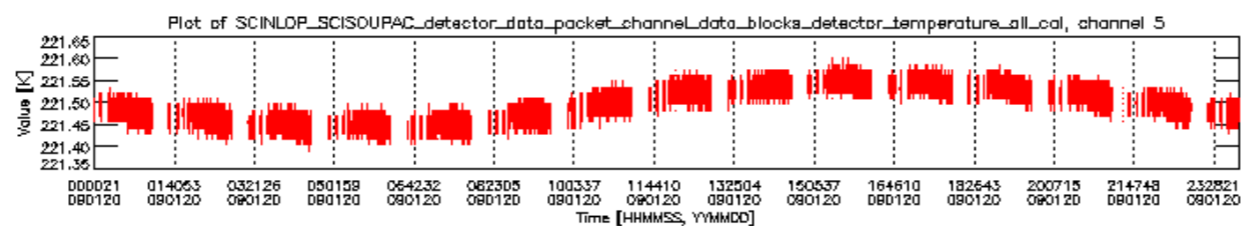
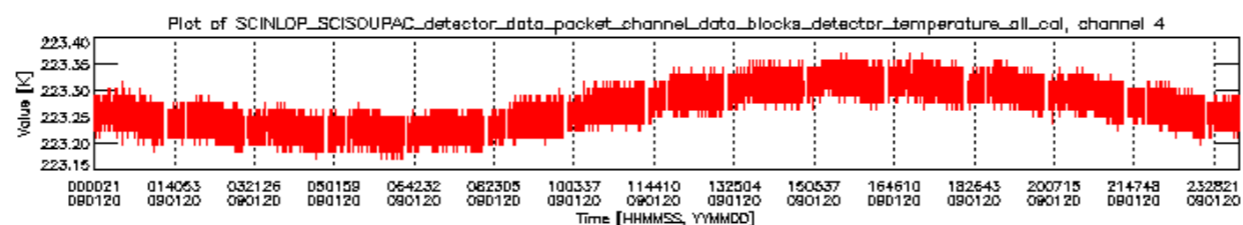
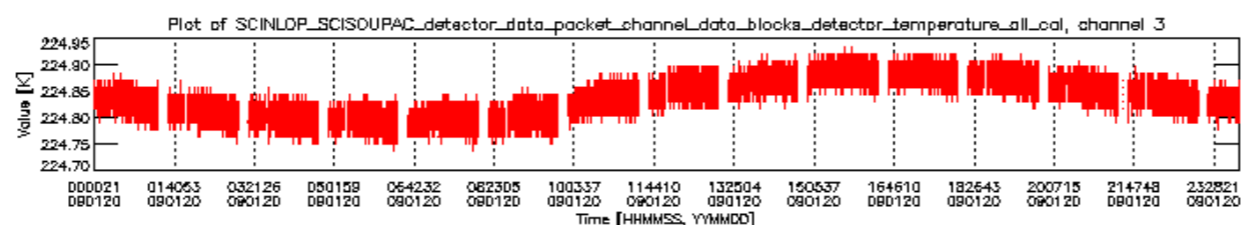
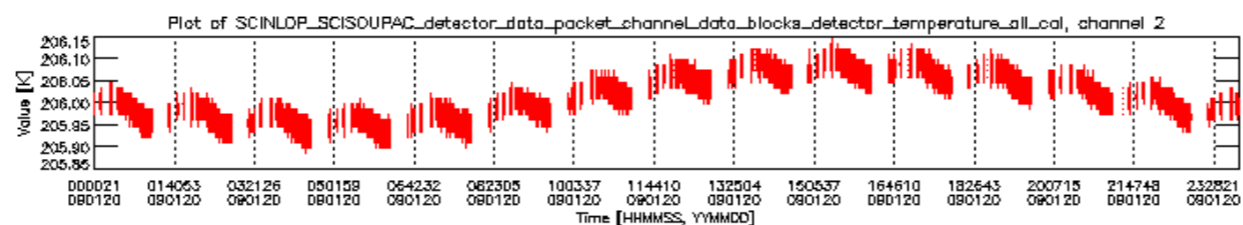
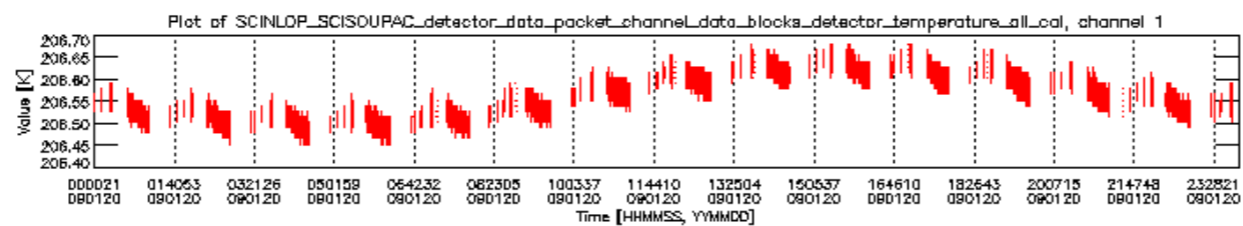














Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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