

## 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	03MAR2009 07:02:12
Data source version	KSPT_L0/4303-N
Processing scope for products	27FEB2009 00:00:00 to 28FEB2009 00:00:00
Start time of first product within scope	26FEB2009 23:54:29
Stop time of last product within scope	28FEB2009 01:04:03
Total number of level 0 products	16
Number of level 0 products with errors	0

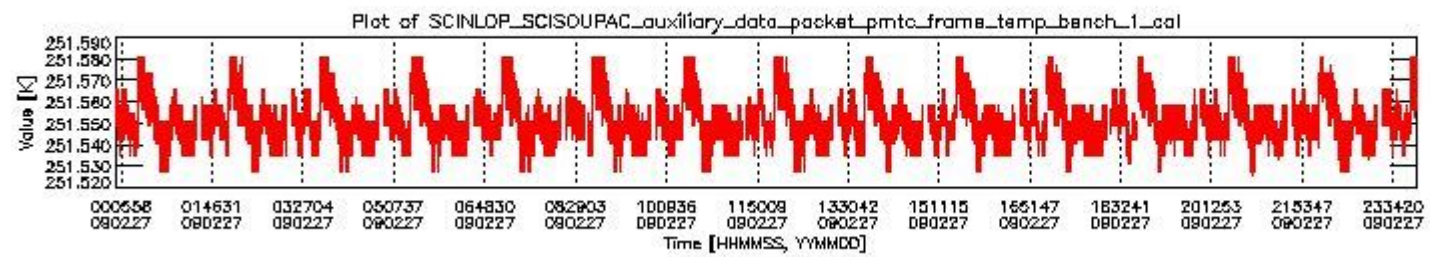
### 0.1.2 Summary per product

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

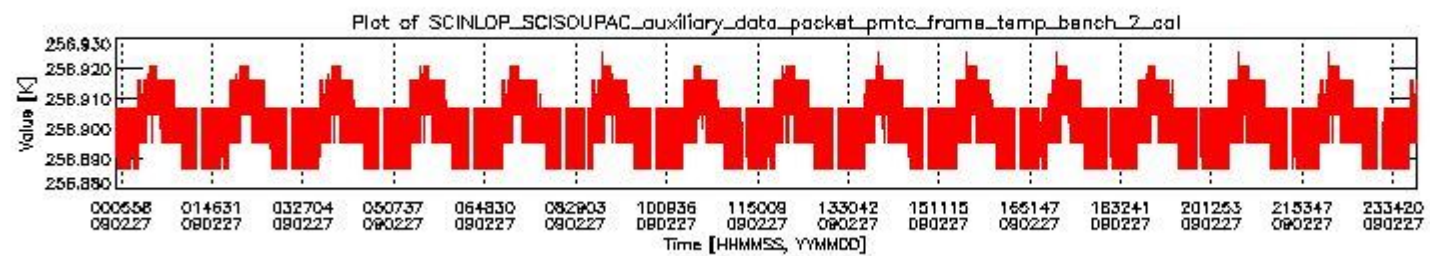
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090226_235429_000056032076_00445_36571_8573.N1	26FEB2009 23:54:29	27FEB2009 01:27:52	0	0	0	0	0
1	SCI_NL__OPNPDE20090227_013504_000046002076_00446_36572_8574.N1	27FEB2009 01:35:04	27FEB2009 02:51:44	0	0	0	0	0
2	SCI_NL__OPNPDE20090227_025036_000058552076_00447_36573_8575.N1	27FEB2009 02:50:36	27FEB2009 04:28:11	0	0	0	0	0
3	SCI_NL__OPNPDE20090227_042715_000060912076_00448_36574_8576.N1	27FEB2009 04:27:15	27FEB2009 06:08:46	0	0	0	0	0
4	SCI_NL__OPNPDK20090227_060738_000041132076_00449_36575_0827.N1	27FEB2009 06:07:38	27FEB2009 07:16:11	0	0	0	0	0
5	SCI_NL__OPNPDK20090227_071407_000062842076_00450_36576_0828.N1	27FEB2009 07:14:07	27FEB2009 08:58:51	0	0	0	0	0
6	SCI_NL__OPNPDK20090227_085742_000060482076_00451_36577_0829.N1	27FEB2009 08:57:42	27FEB2009 10:38:30	0	0	0	0	0
7	SCI_NL__OPNPDK20090227_103626_000058982076_00452_36578_0830.N1	27FEB2009 10:36:26	27FEB2009 12:14:44	0	0	0	0	0
8	SCI_NL__OPNPDK20090227_121348_000061042076_00453_36579_0831.N1	27FEB2009 12:13:48	27FEB2009 13:55:32	0	0	0	0	0
9	SCI_NL__OPNPDK20090227_135424_000059112076_00454_36580_0832.N1	27FEB2009 13:54:24	27FEB2009 15:32:55	0	0	0	0	0
10	SCI_NL__OPNPDK20090227_153103_000060462076_00455_36581_0833.N1	27FEB2009 15:31:03	27FEB2009 17:11:49	0	0	0	0	0
11	SCI_NL__OPNPDK20090227_171030_000059102076_00456_36582_0834.N1	27FEB2009 17:10:30	27FEB2009 18:49:00	0	0	0	0	0
12	SCI_NL__OPNPDK20090227_184900_000060352076_00457_36583_0835.N1	27FEB2009 18:49:00	27FEB2009 20:29:36	0	0	0	0	0
13	SCI_NL__OPNPDE20090227_202936_000039222076_00458_36584_8577.N1	27FEB2009 20:29:36	27FEB2009 21:34:57	0	0	0	0	0
14	SCI_NL__OPNPDE20090227_214209_000060352076_00458_36584_8578.N1	27FEB2009 21:42:09	27FEB2009 23:22:44	0	0	0	0	0
15	SCI_NL__OPNPDE20090227_232244_000060792076_00459_36585_8579.N1	27FEB2009 23:22:44	28FEB2009 01:04:03	0	0	0	0	0

## 0.2 Product Quality Indicators

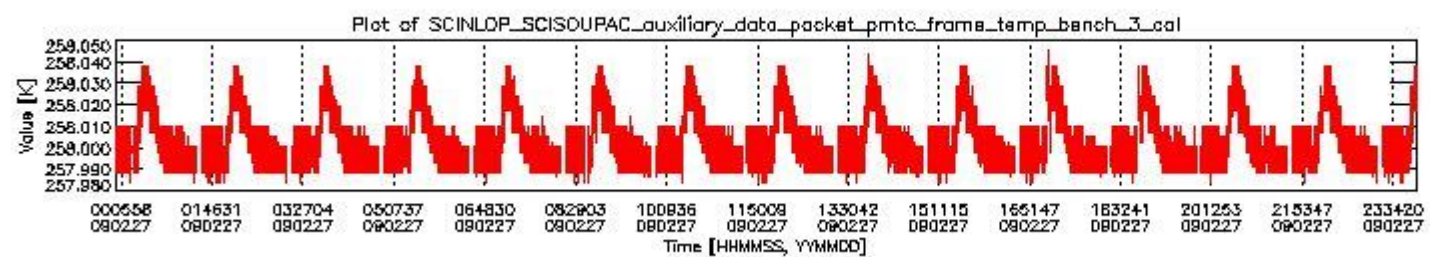
This section shows information about product quality, currently temperatures.



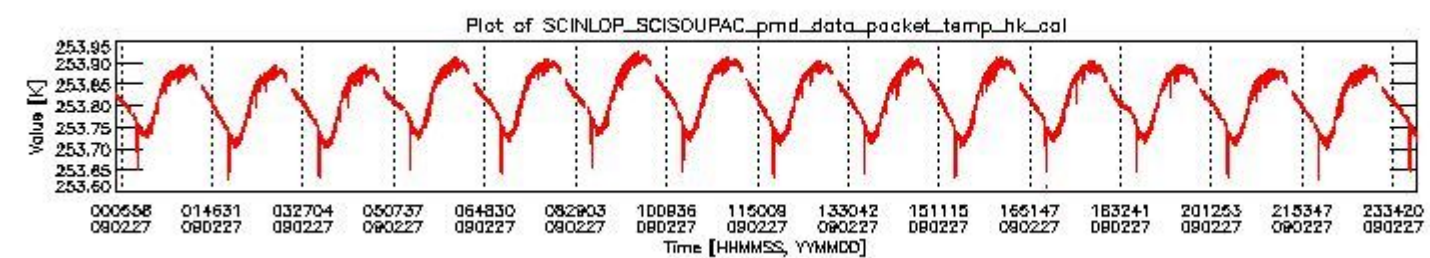
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090227\_0.PNG



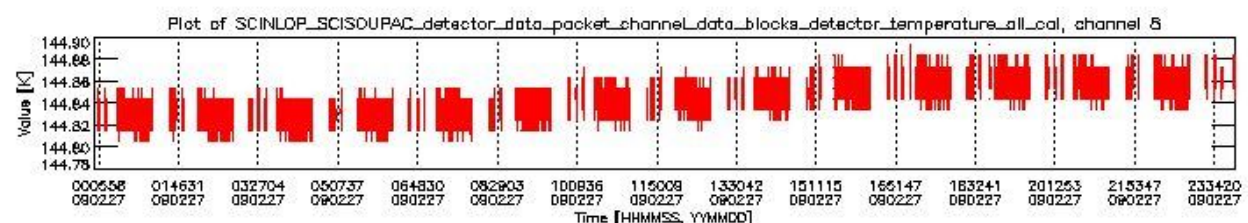
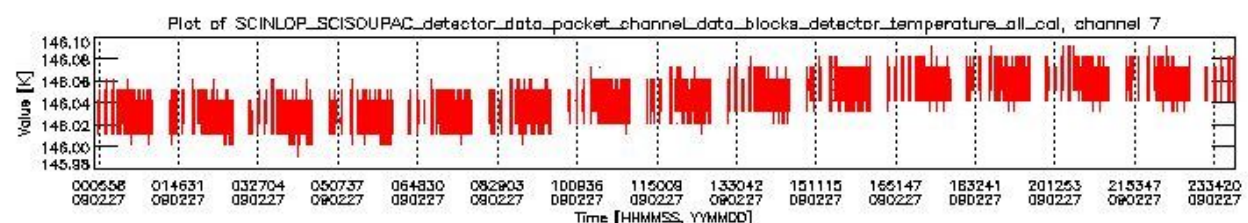
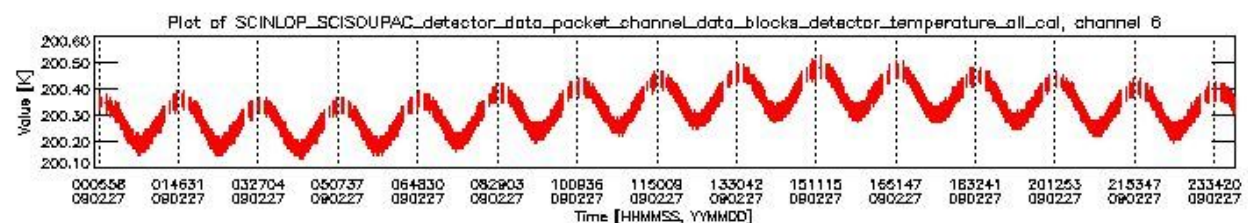
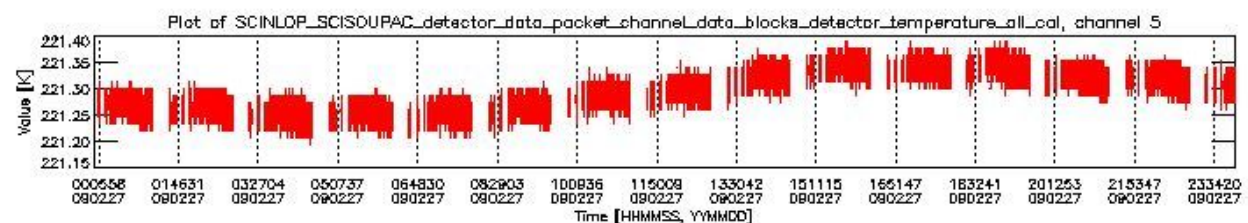
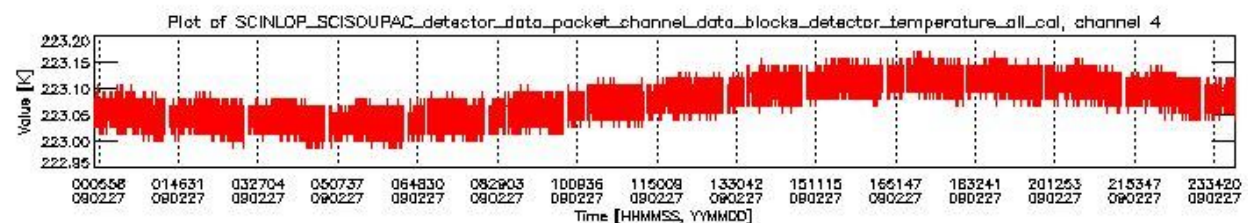
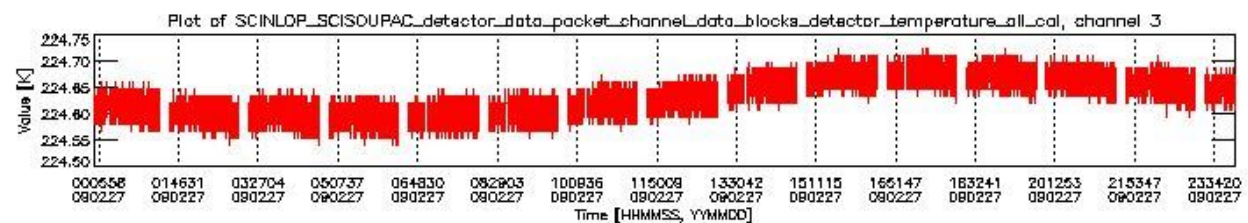
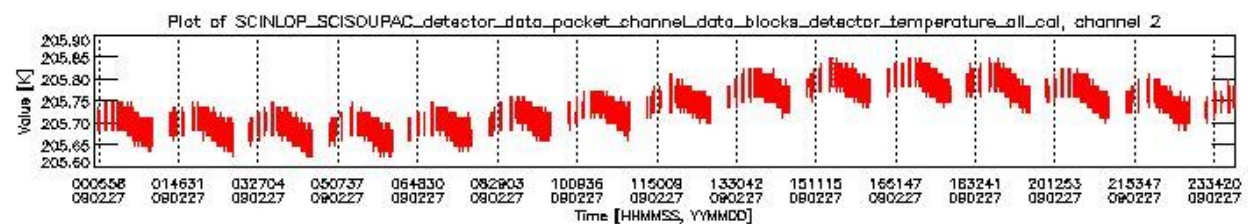
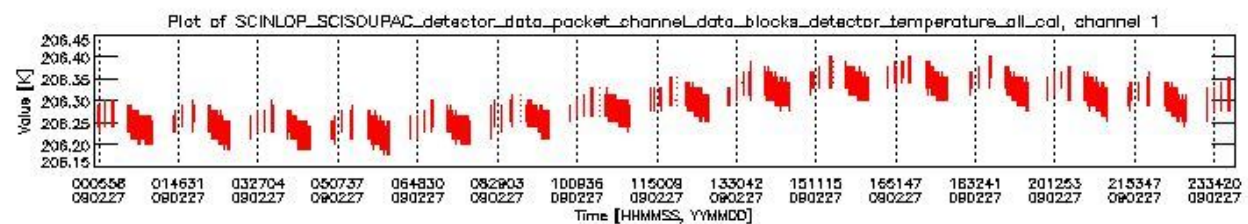
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090227\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090227\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090227\_3.PNG

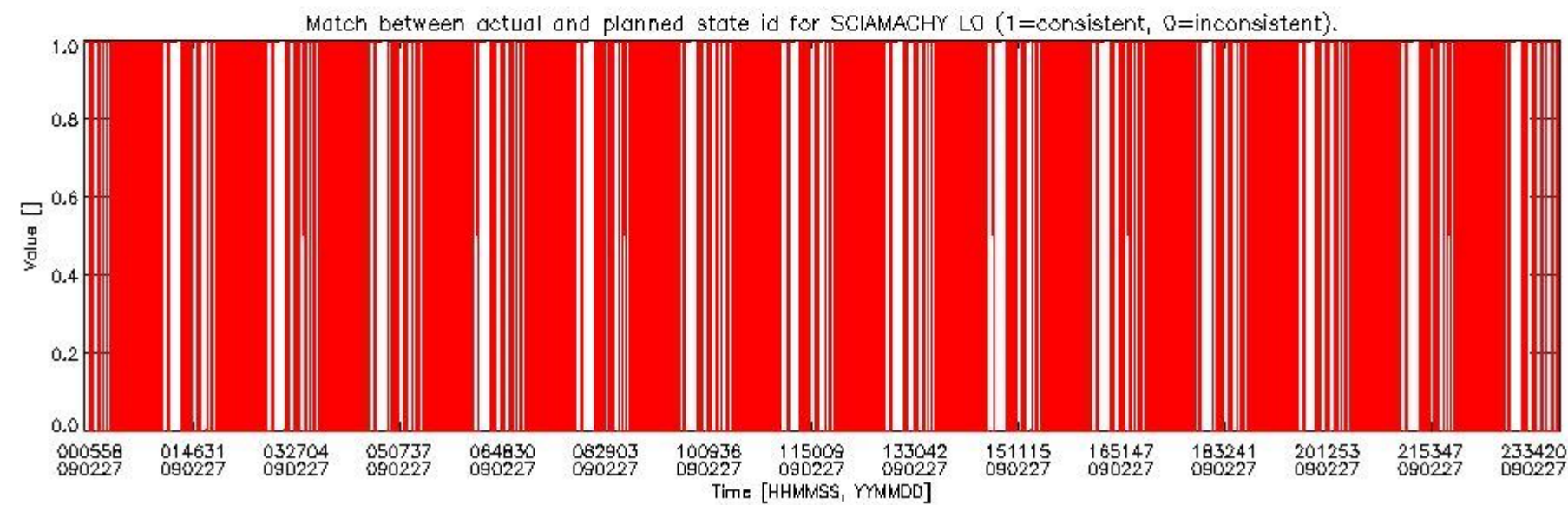
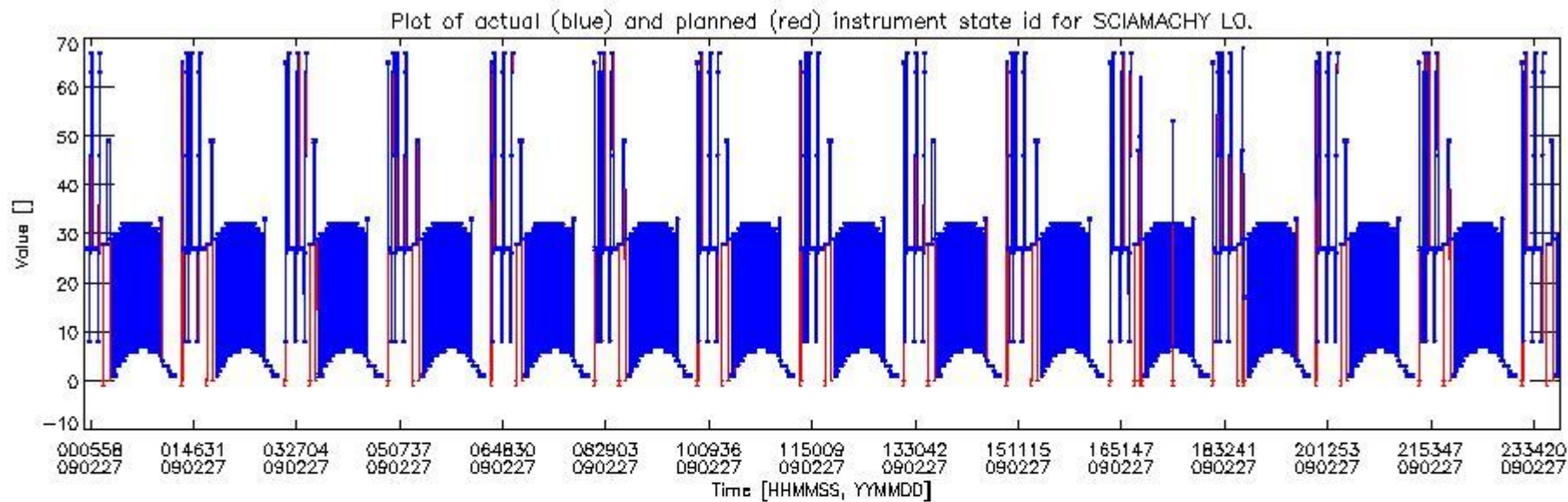


### 0.3 State monitoring

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: **46373**

#	Actual time	Actual value	Planned time	Planned value
0	27FEB2009 00:04:33.430462	8	27FEB2009 00:04:33.430462	27
1	27FEB2009 00:04:34.555461	8	27FEB2009 00:04:34.555461	27
2	27FEB2009 00:04:35.555456	8	27FEB2009 00:04:35.555456	27
3	27FEB2009 00:04:36.555490	8	27FEB2009 00:04:36.555490	27
4	27FEB2009 00:04:37.555485	8	27FEB2009 00:04:37.555485	27
5	27FEB2009 00:04:38.430475	8	27FEB2009 00:04:38.430475	27
6	27FEB2009 00:04:38.555480	8	27FEB2009 00:04:38.555480	27
7	27FEB2009 00:04:39.555474	8	27FEB2009 00:04:39.555474	27
8	27FEB2009 00:04:40.555469	8	27FEB2009 00:04:40.555469	27
9	27FEB2009 00:04:41.555463	8	27FEB2009 00:04:41.555463	27
10	27FEB2009 00:04:42.555458	8	27FEB2009 00:04:42.555458	27
11	27FEB2009 00:04:43.430488	8	27FEB2009 00:04:43.430488	27
12	27FEB2009 00:05:16.989067	26	27FEB2009 00:05:16.989067	8
13	27FEB2009 00:05:17.614089	26	27FEB2009 00:05:17.614089	8
14	27FEB2009 00:05:18.114066	26	27FEB2009 00:05:18.114066	8
15	27FEB2009 00:05:18.614084	26	27FEB2009 00:05:18.614084	8
16	27FEB2009 00:05:19.114061	26	27FEB2009 00:05:19.114061	8
17	27FEB2009 00:05:19.614078	26	27FEB2009 00:05:19.614078	8
18	27FEB2009 00:05:20.114055	26	27FEB2009 00:05:20.114055	8
19	27FEB2009 00:05:20.614073	26	27FEB2009 00:05:20.614073	8
	...	...	...	...

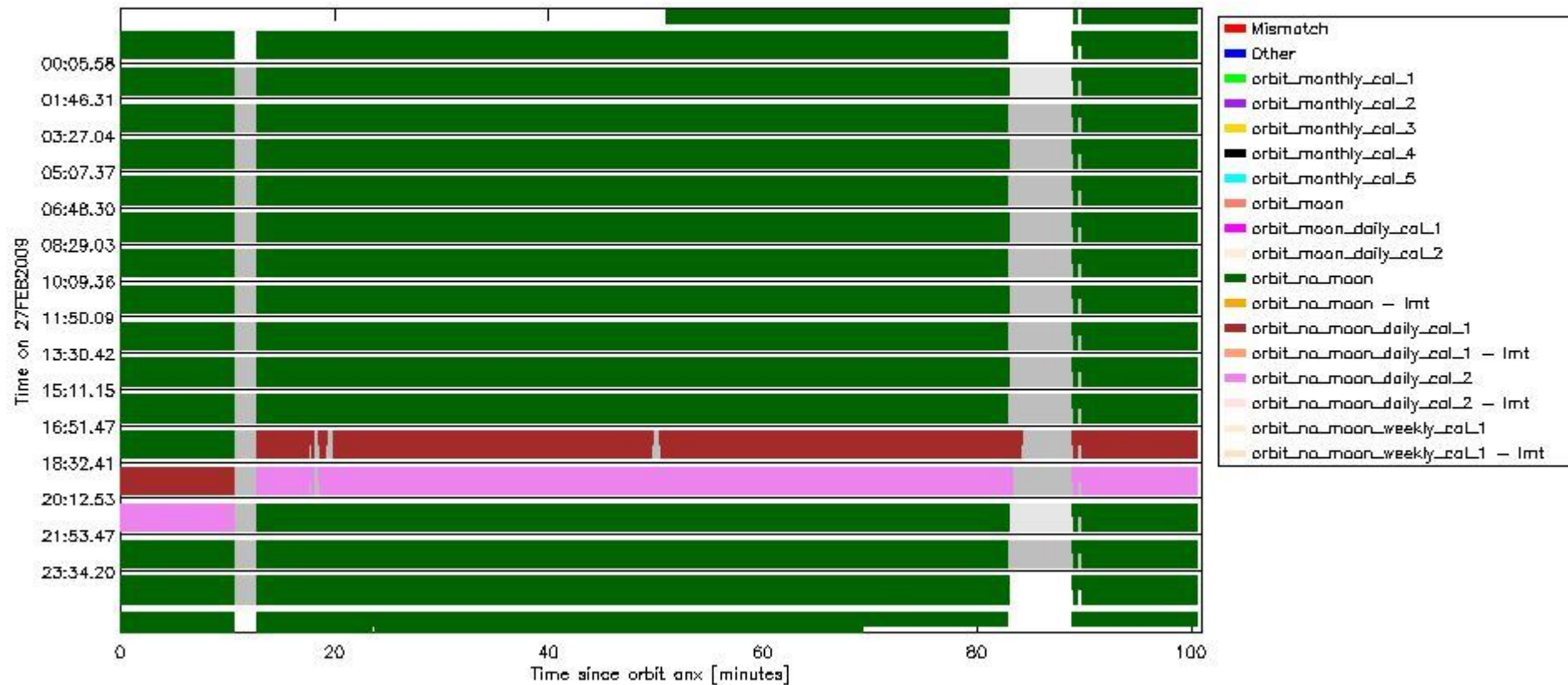


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090227\_5.PNG

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 27FEB2009.  
 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\_20090227\_6.PNG

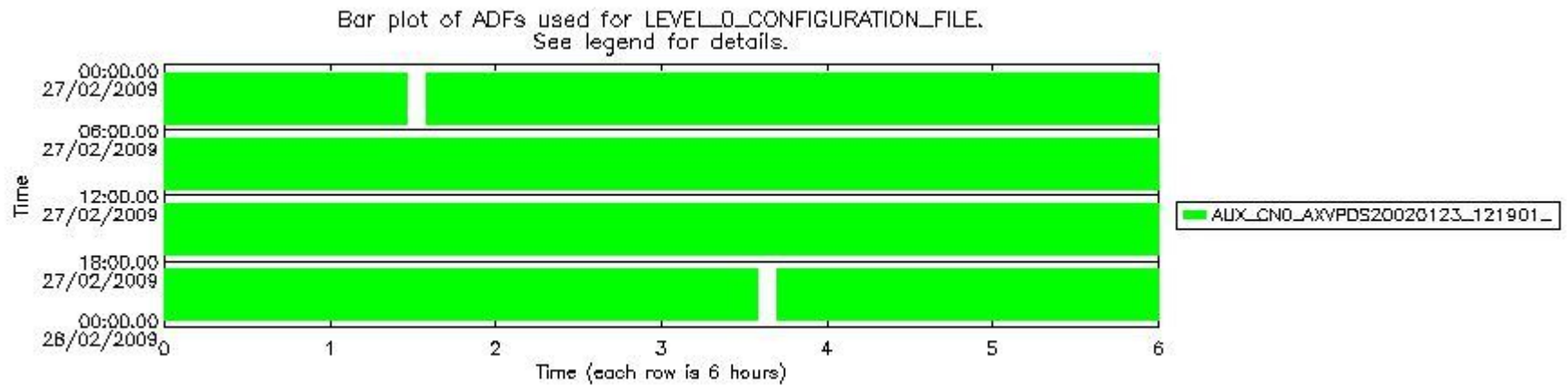
## 0.4 ADF monitoring

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

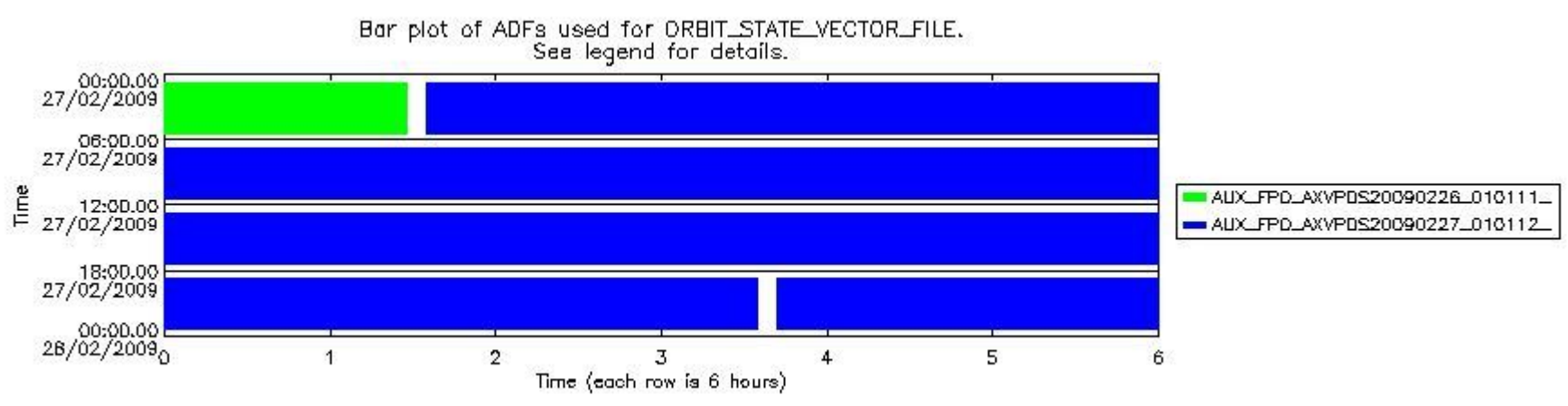
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

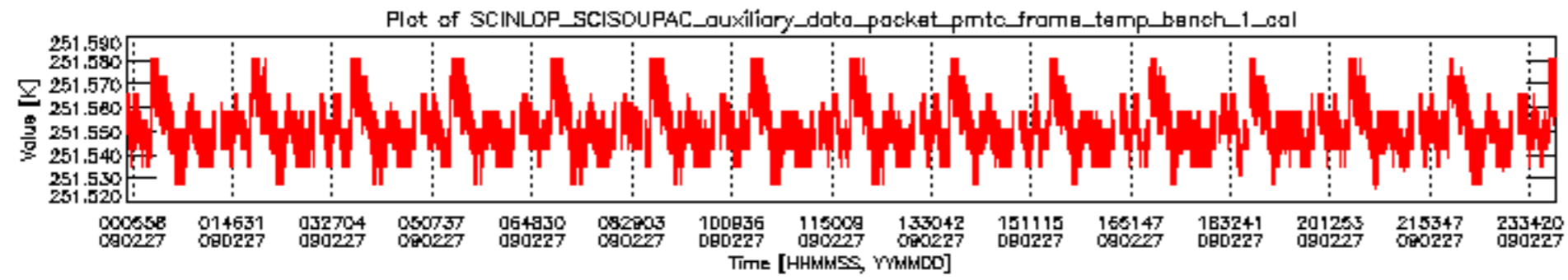
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20090226_010111_20090225_193545_20090307_210159</b>
2	<b>AUX_FPO_AXVPDS20090227_010112_20090226_190408_20090308_203022</b>



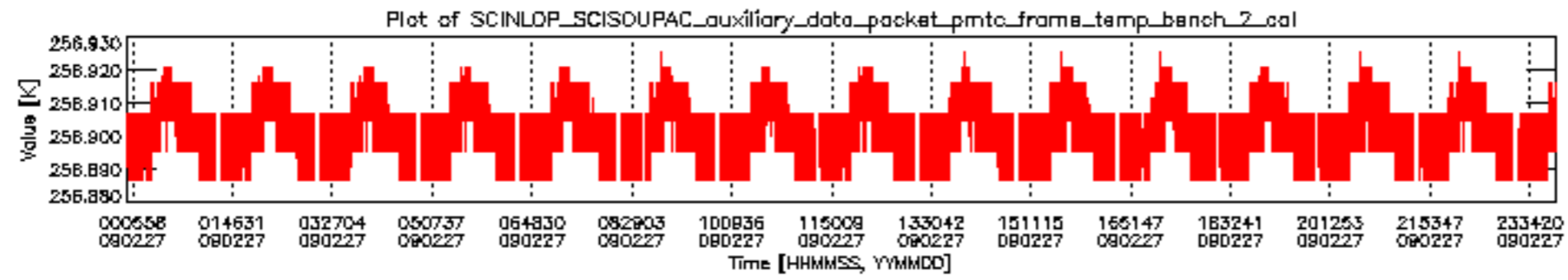
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090227\_7.PNG

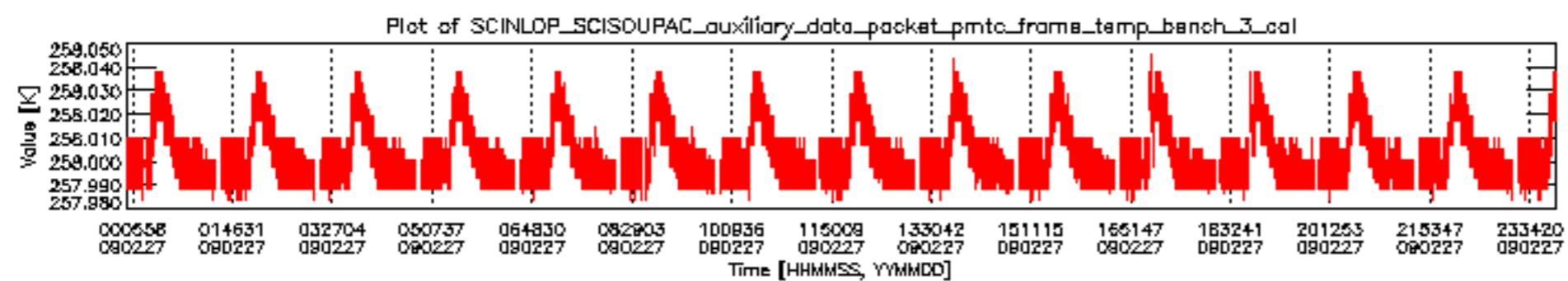


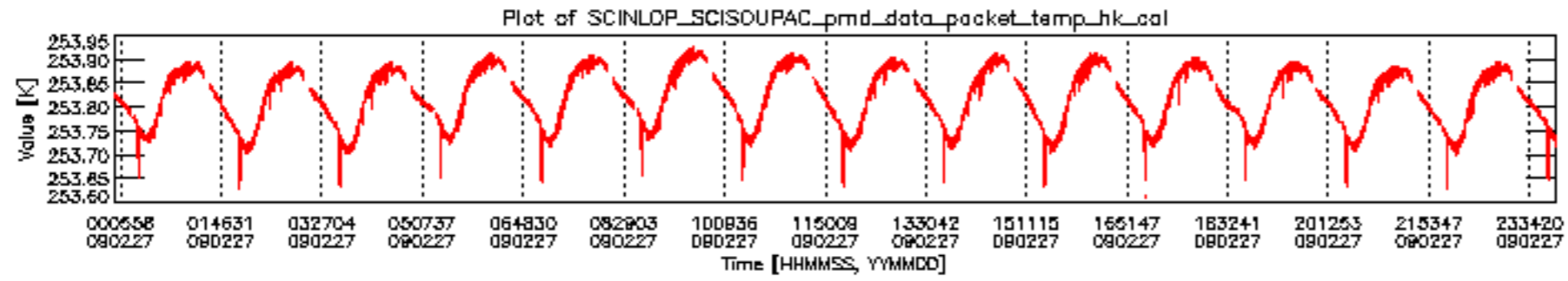
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090227\_8.PNG

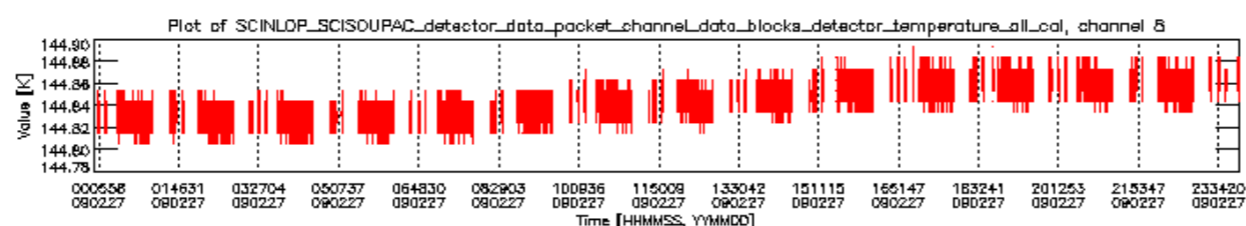
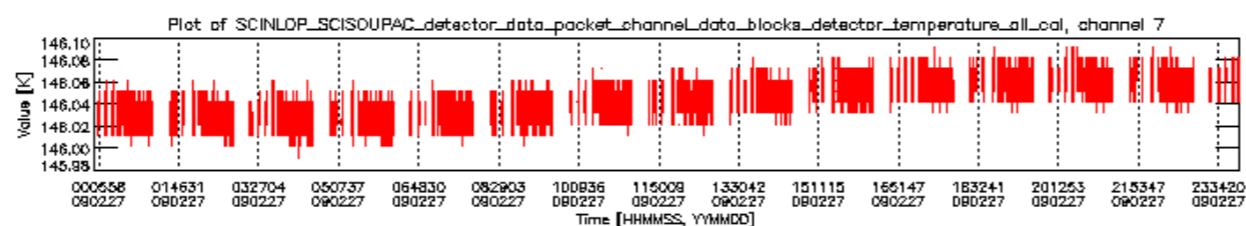
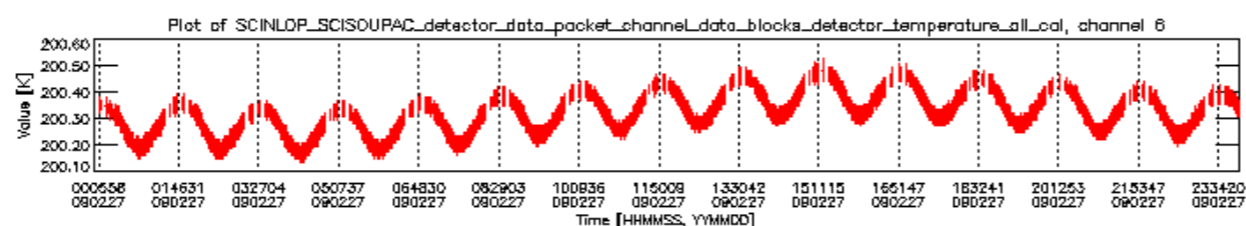
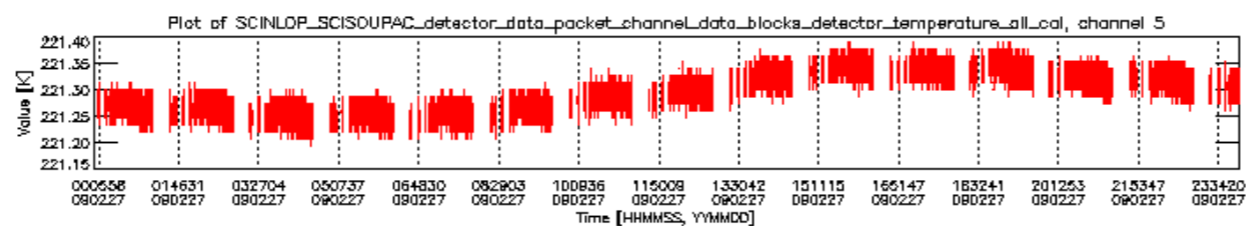
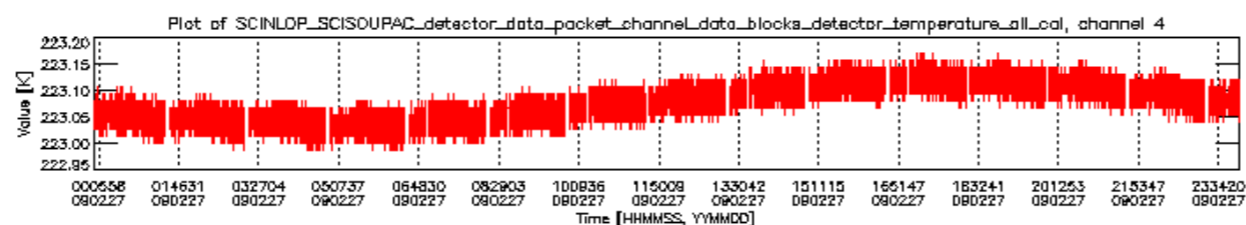
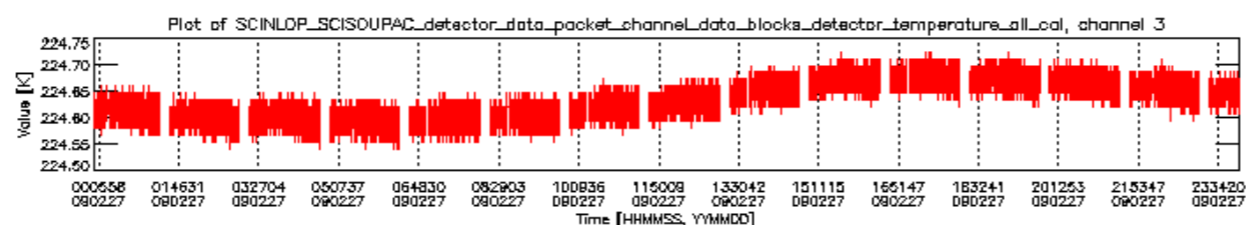
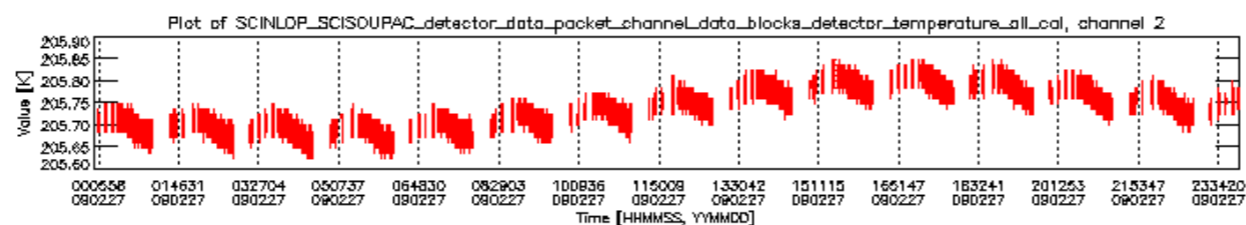
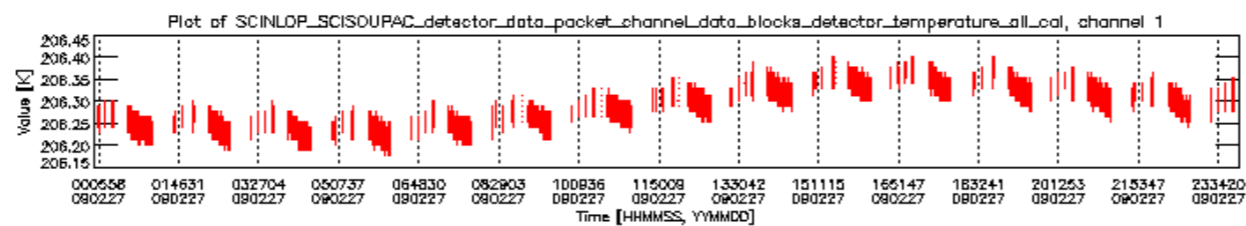














Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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