

## 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	14OCT2008 05:23:06
Data source version	KSPT_L0/4303-N
Processing scope for products	10OCT2008 00:00:00 to 11OCT2008 00:00:00
Start time of first product within scope	09OCT2008 23:53:25
Stop time of last product within scope	11OCT2008 01:02:31
Total number of level 0 products	16
Number of level 0 products with errors	2

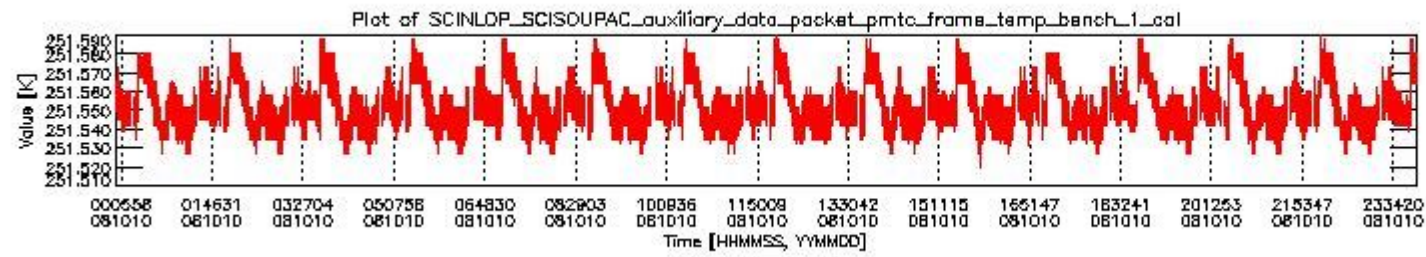
### 0.1.2 Summary per product

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

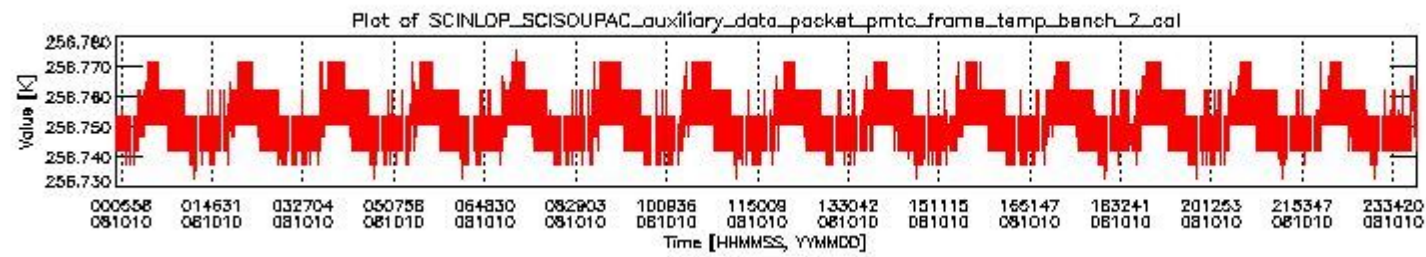
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081009_235325_000056872072_00445_34567_7675.N1	09OCT2008 23:53:25	10OCT2008 01:28:12	0	0	0	0	0
1	SCI_NL__OPNPDE20081010_013401_000046152072_00446_34568_7676.N1	10OCT2008 01:34:01	10OCT2008 02:50:57	0	0	0	0	0
2	SCI_NL__OPNPDE20081010_025001_000057882072_00447_34569_7677.N1	10OCT2008 02:50:01	10OCT2008 04:26:28	0	0	0	0	0
3	SCI_NL__OPNPDE20081010_042628_000060922072_00448_34570_7678.N1	10OCT2008 04:26:28	10OCT2008 06:08:01	0	0	0	0	0
4	SCI_NL__OPNPDK20081010_060705_000041702072_00449_34571_9624.N1	10OCT2008 06:07:05	10OCT2008 07:16:35	0	0	0	0	0
5	SCI_NL__OPNPDK20081010_071431_000062172072_00450_34572_9625.N1	10OCT2008 07:14:31	10OCT2008 08:58:07	0	0	0	0	0
6	SCI_NL__OPNPDK20081010_085711_000060362072_00451_34573_9626.N1	10OCT2008 08:57:11	10OCT2008 10:37:48	1	0	1	0	0
7	SCI_NL__OPNPDK20081010_103543_000059682072_00452_34574_9627.N1	10OCT2008 10:35:43	10OCT2008 12:15:11	0	0	0	0	0
8	SCI_NL__OPNPDK20081010_121415_000059812072_00453_34575_9628.N1	10OCT2008 12:14:15	10OCT2008 13:53:56	0	0	0	0	0
9	SCI_NL__OPNPDK20081010_135247_000060362072_00454_34576_9629.N1	10OCT2008 13:52:47	10OCT2008 15:33:24	0	0	0	0	0
10	SCI_NL__OPNPDK20081010_153132_000059222072_00455_34577_9630.N1	10OCT2008 15:31:32	10OCT2008 17:10:14	0	0	0	0	0
11	SCI_NL__OPNPDK20081010_170855_000060372072_00456_34578_9631.N1	10OCT2008 17:08:55	10OCT2008 18:49:31	1	1	0	0	0
12	SCI_NL__OPNPDK20081010_184931_000060362072_00457_34579_9632.N1	10OCT2008 18:49:31	10OCT2008 20:30:08	0	0	0	0	0
13	SCI_NL__OPNPDE20081010_202719_000040902072_00458_34580_7679.N1	10OCT2008 20:27:19	10OCT2008 21:35:29	0	0	0	0	0
14	SCI_NL__OPNPDE20081010_214119_000060362072_00458_34580_7680.N1	10OCT2008 21:41:19	10OCT2008 23:21:55	0	0	0	0	0
15	SCI_NL__OPNPDE20081010_232155_000060362072_00459_34581_7681.N1	10OCT2008 23:21:55	11OCT2008 01:02:31	0	0	0	0	0

## 0.2 Product Quality Indicators

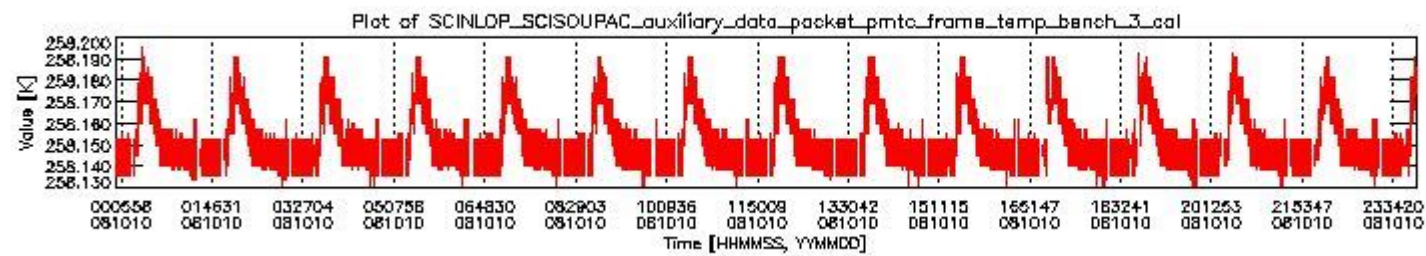
This section shows information about product quality, currently temperatures.



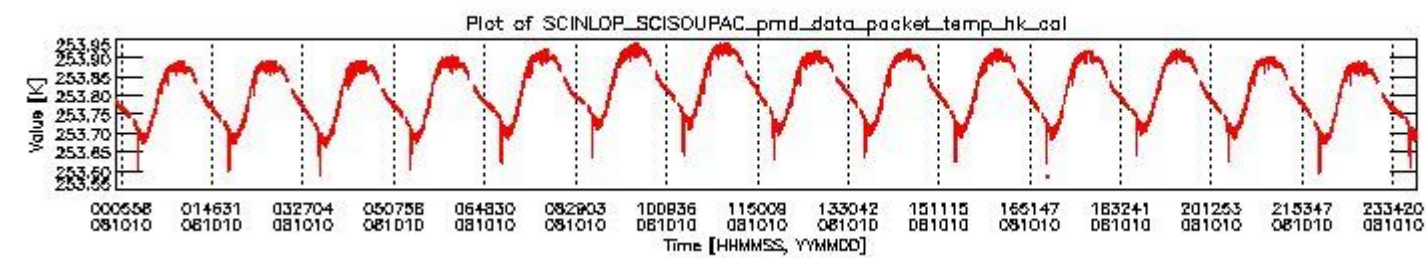
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081010\_0.PNG



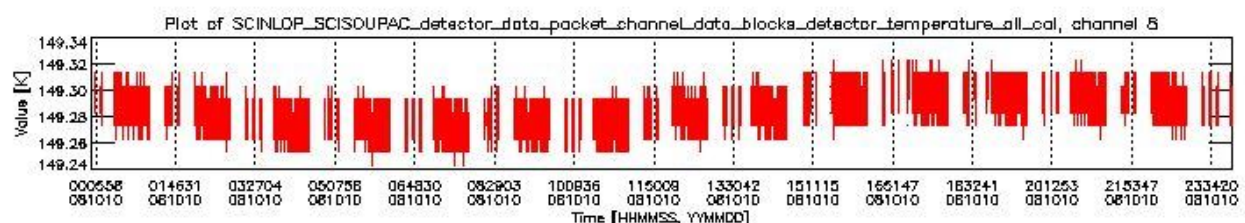
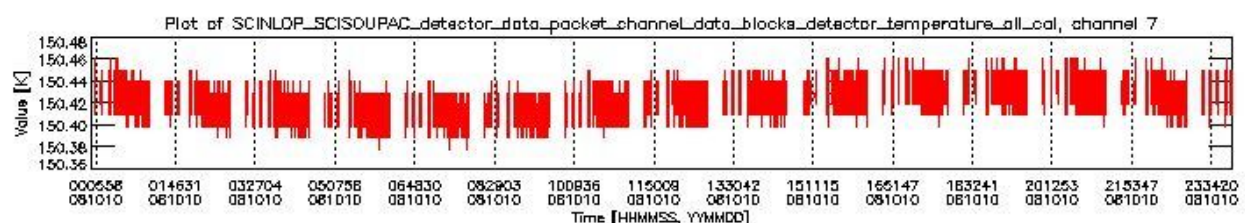
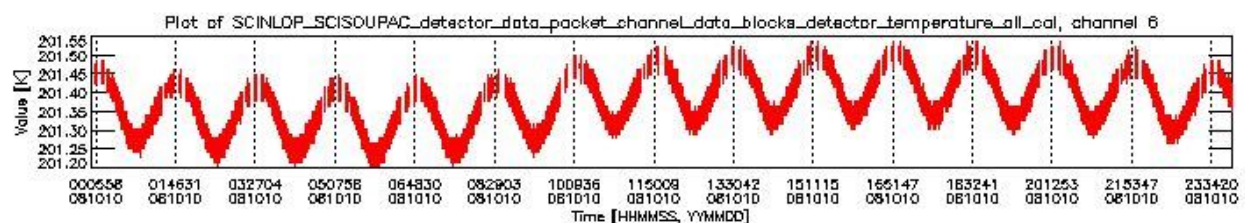
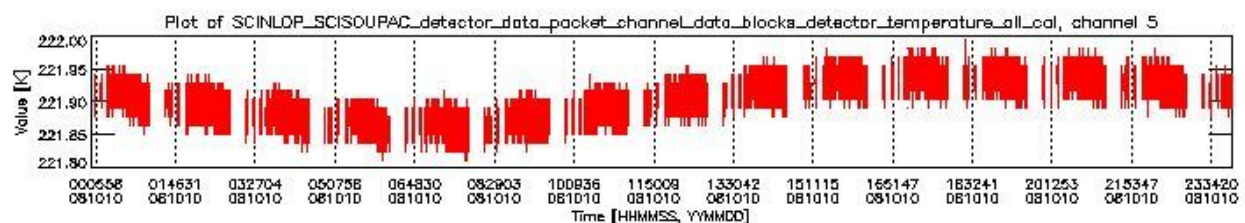
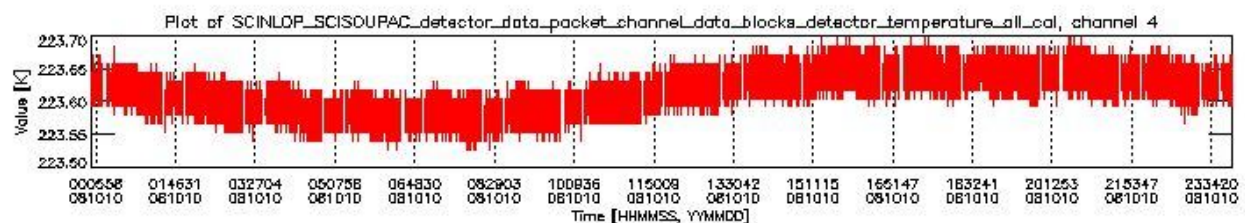
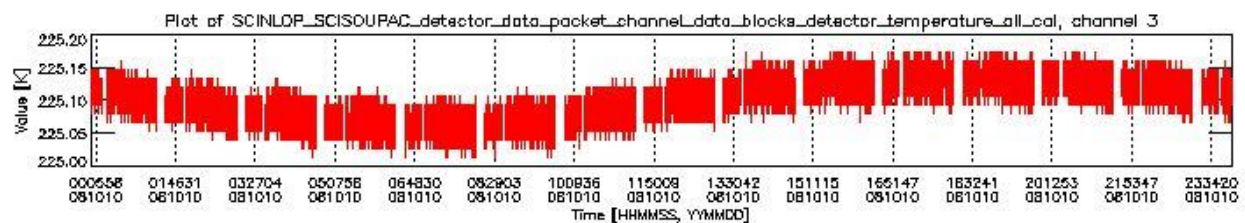
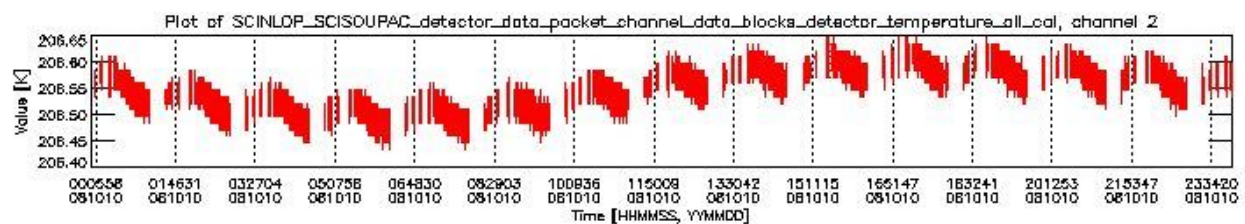
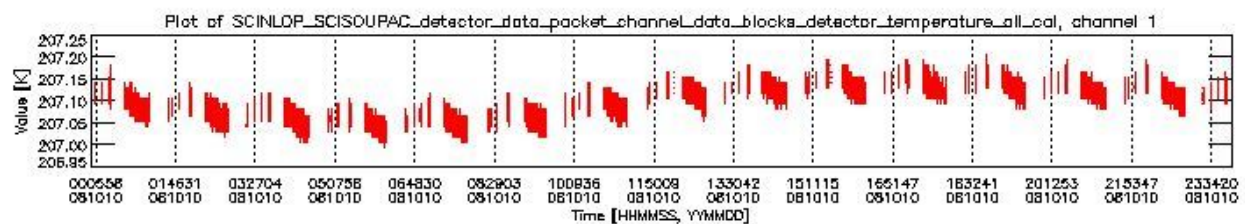
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081010\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081010\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081010\_3.PNG

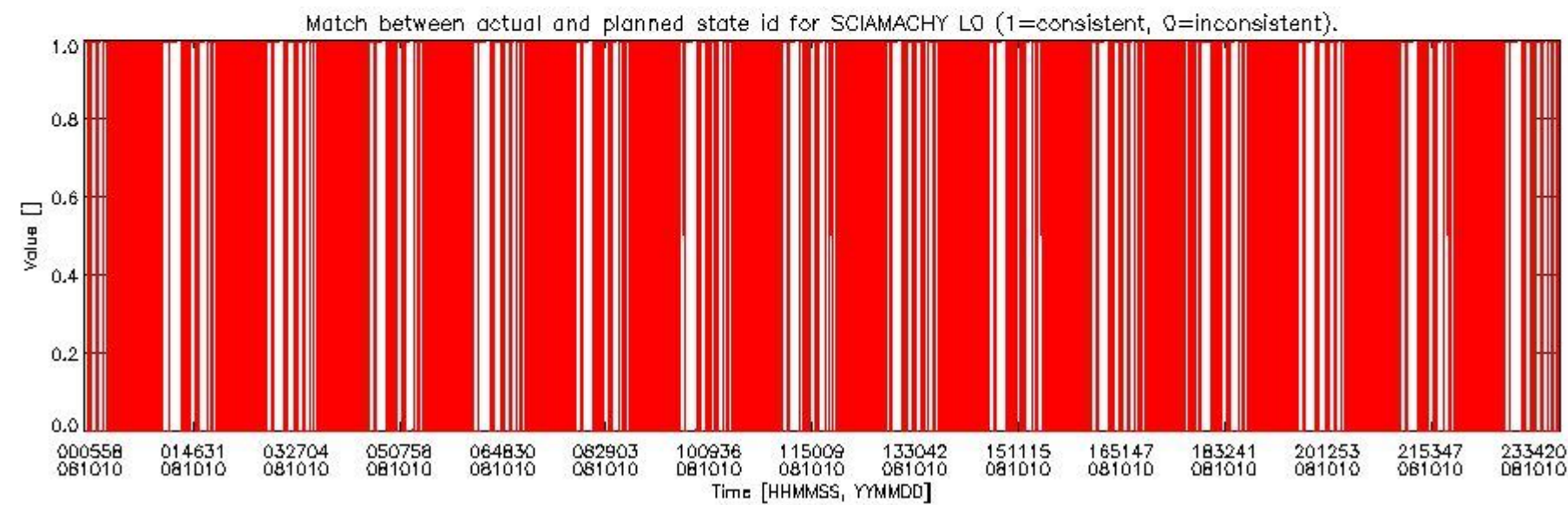
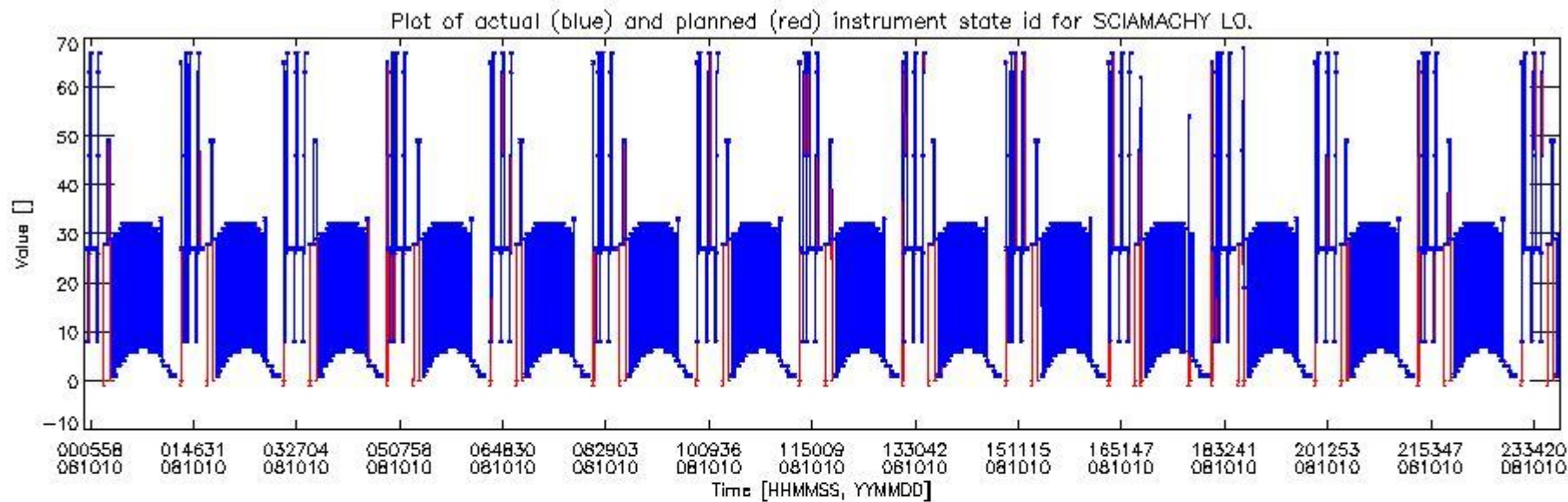


### 0.3 State monitoring

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: **44563**

#	Actual time	Actual value	Planned time	Planned value
0	10OCT2008 00:03:29.547646	8	10OCT2008 00:03:29.547646	27
1	10OCT2008 00:03:30.672645	8	10OCT2008 00:03:30.672645	27
2	10OCT2008 00:03:31.672640	8	10OCT2008 00:03:31.672640	27
3	10OCT2008 00:03:32.672634	8	10OCT2008 00:03:32.672634	27
4	10OCT2008 00:03:33.672629	8	10OCT2008 00:03:33.672629	27
5	10OCT2008 00:03:34.547659	8	10OCT2008 00:03:34.547659	27
6	10OCT2008 00:03:34.672624	8	10OCT2008 00:03:34.672624	27
7	10OCT2008 00:03:35.672658	8	10OCT2008 00:03:35.672658	27
8	10OCT2008 00:03:36.672653	8	10OCT2008 00:03:36.672653	27
9	10OCT2008 00:03:37.672648	8	10OCT2008 00:03:37.672648	27
10	10OCT2008 00:03:38.672642	8	10OCT2008 00:03:38.672642	27
11	10OCT2008 00:04:13.106251	26	10OCT2008 00:04:13.106251	8
12	10OCT2008 00:04:13.731233	26	10OCT2008 00:04:13.731233	8
13	10OCT2008 00:04:14.231250	26	10OCT2008 00:04:14.231250	8
14	10OCT2008 00:04:14.731227	26	10OCT2008 00:04:14.731227	8
15	10OCT2008 00:04:15.231245	26	10OCT2008 00:04:15.231245	8
16	10OCT2008 00:04:15.731222	26	10OCT2008 00:04:15.731222	8
17	10OCT2008 00:04:16.231239	26	10OCT2008 00:04:16.231239	8
18	10OCT2008 00:04:16.731257	26	10OCT2008 00:04:16.731257	8
19	10OCT2008 00:04:17.231234	26	10OCT2008 00:04:17.231234	8
	...	...	...	...

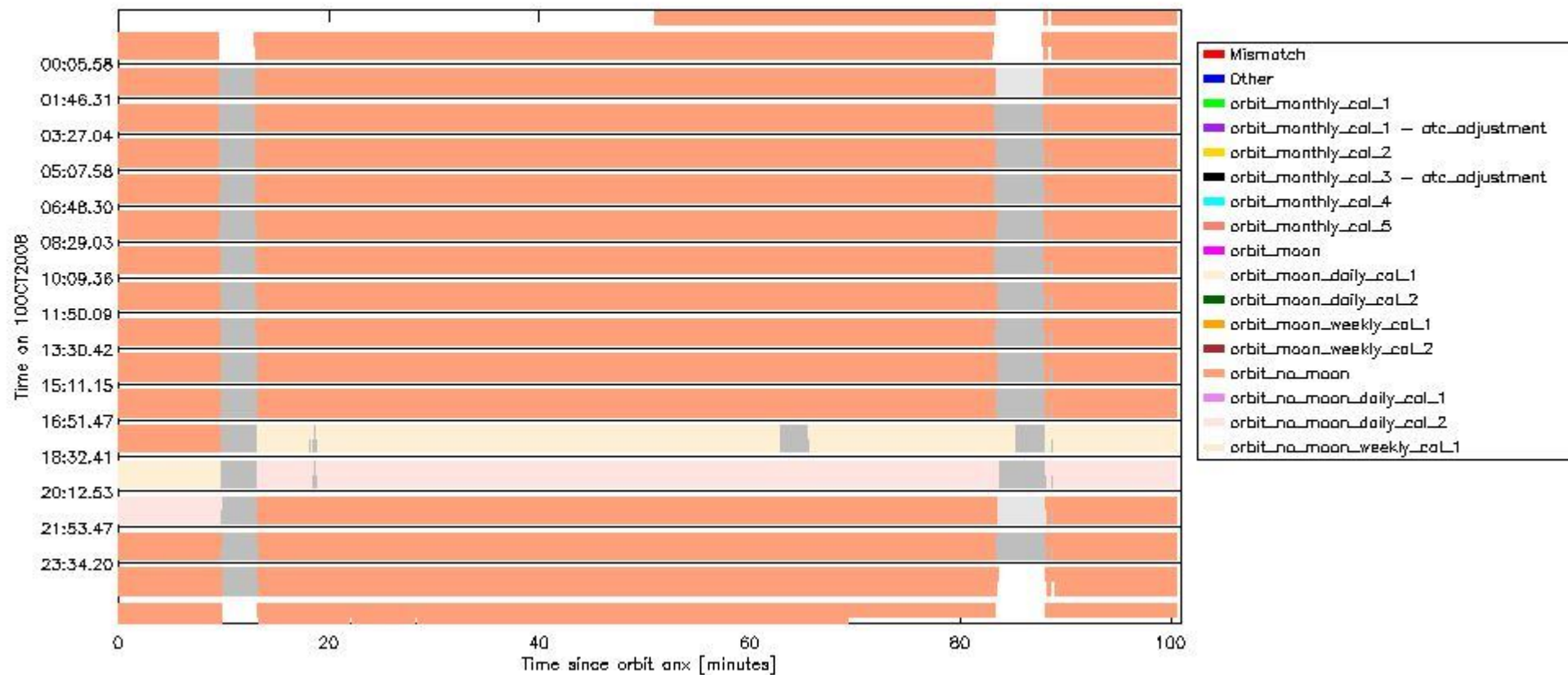


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081010\_5.PNG

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 10OCT2008.  
 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\_20081010\_6.PNG

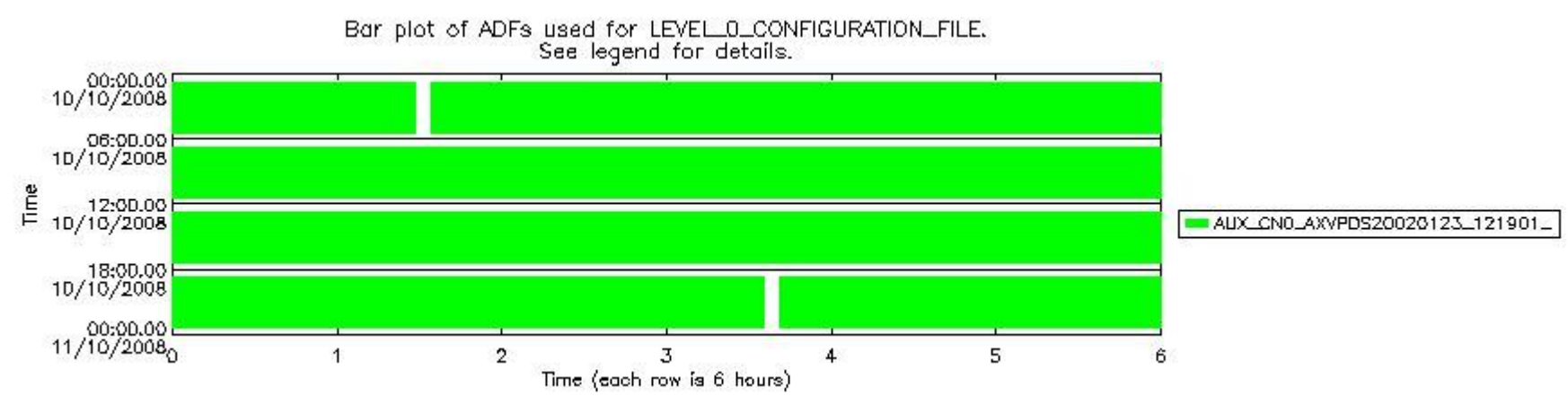
## 0.4 ADF monitoring

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

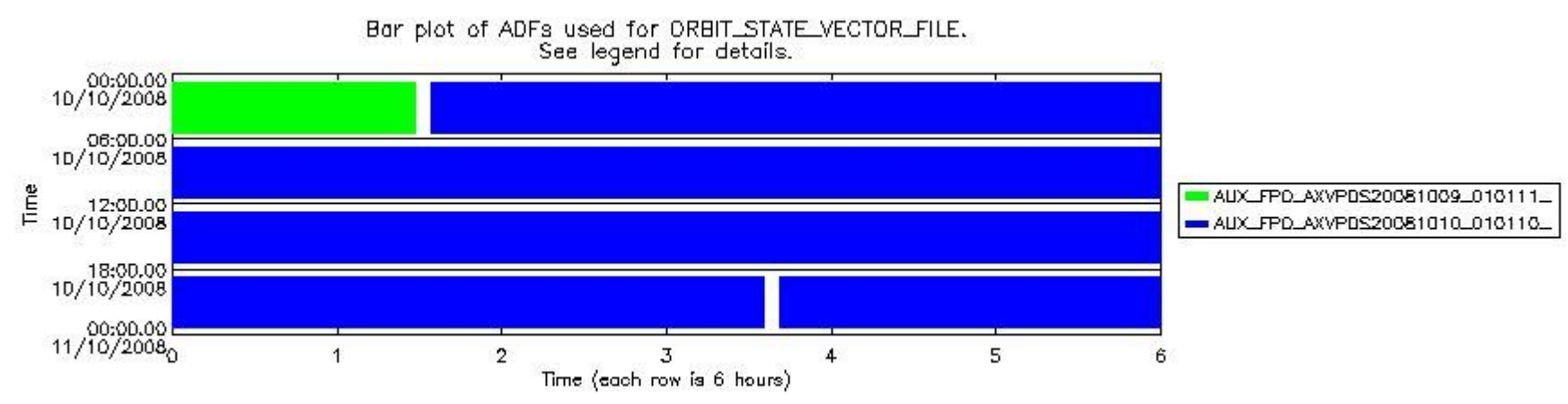
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

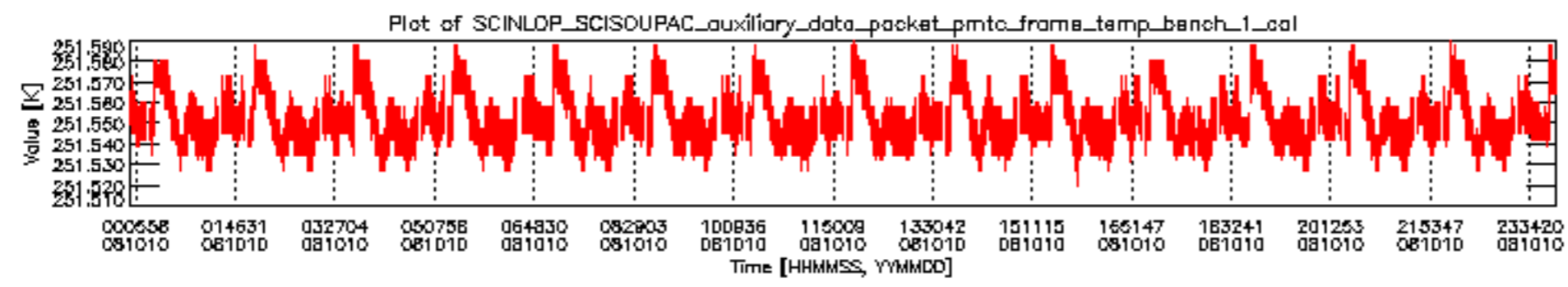
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
<b>1</b>	<b>AUX_FPO_AXVPDS20081009_010111_20081008_193547_20081018_210201</b>
<b>2</b>	<b>AUX_FPO_AXVPDS20081010_010110_20081009_190410_20081019_203024</b>



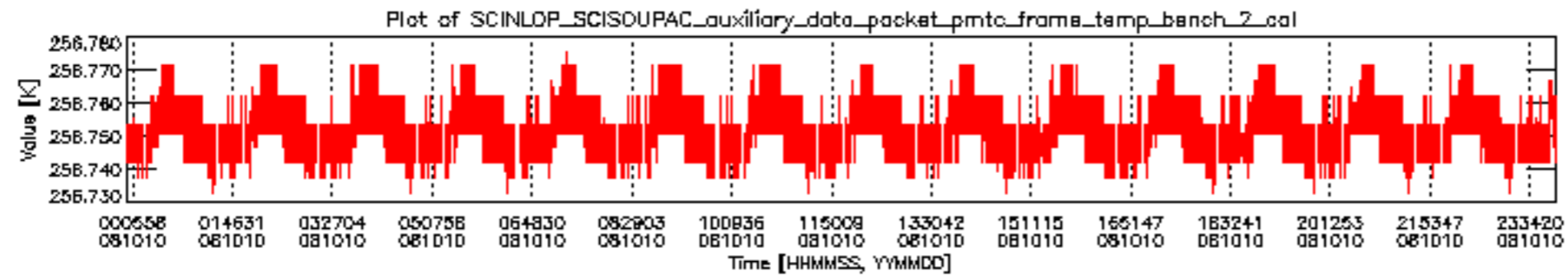
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081010\_7.PNG

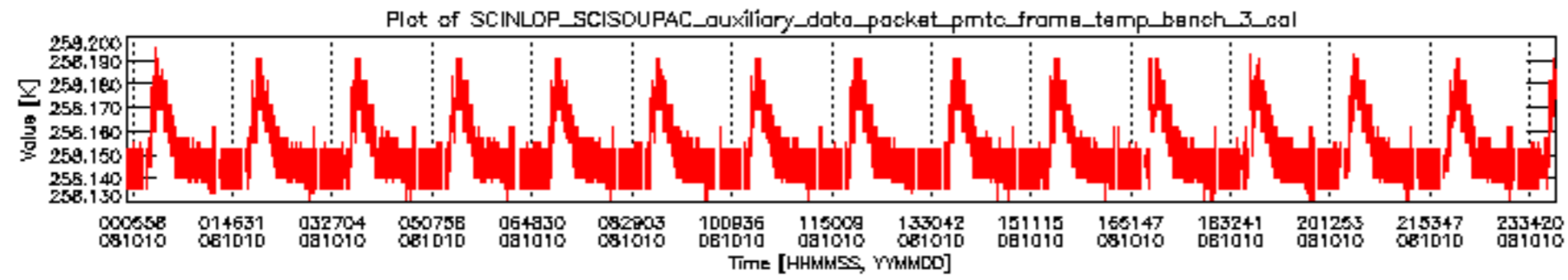


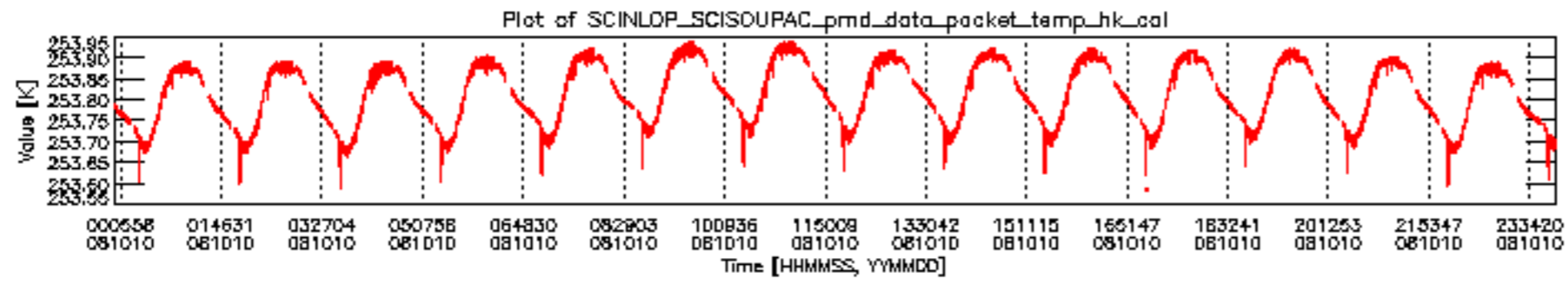
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081010\_8.PNG

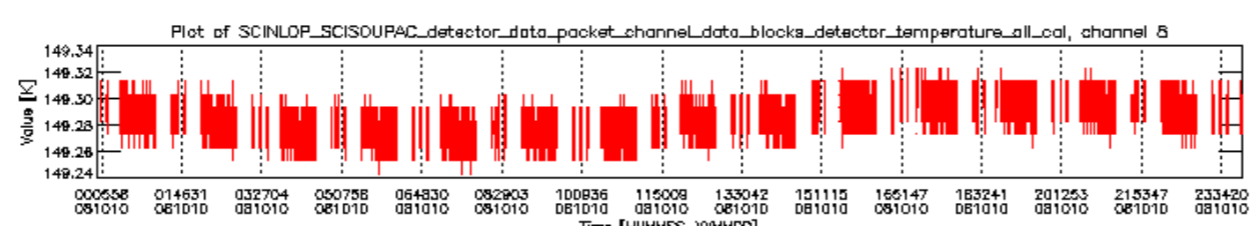
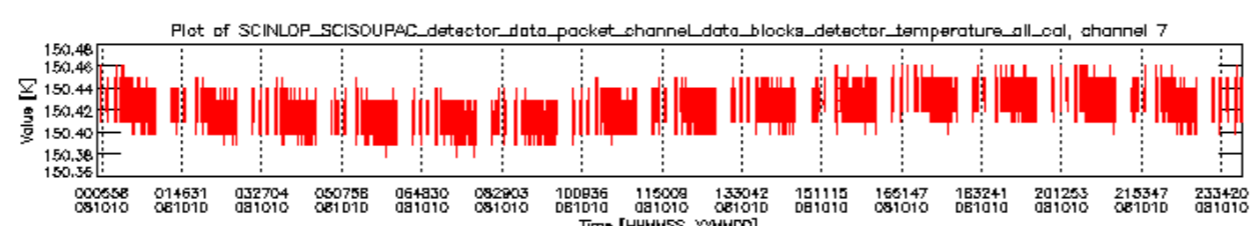
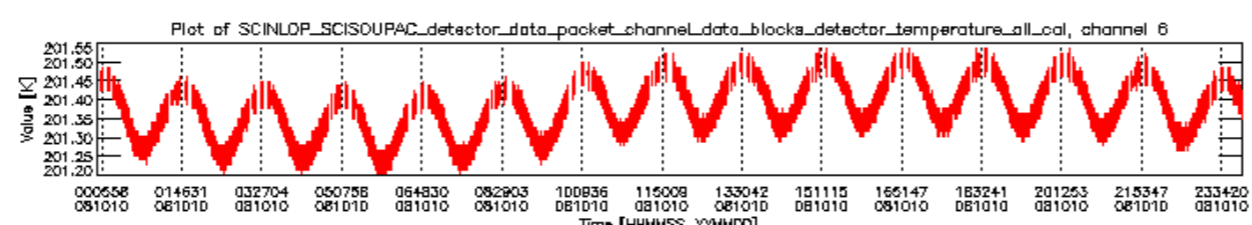
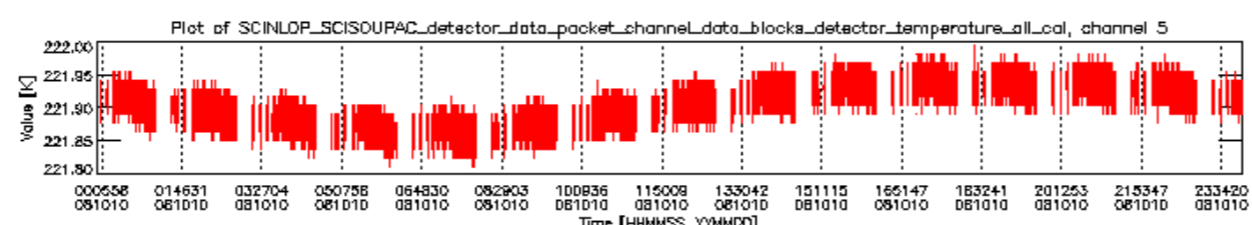
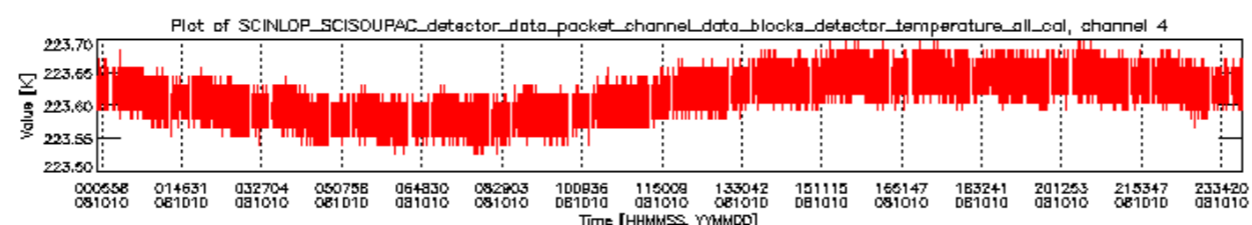
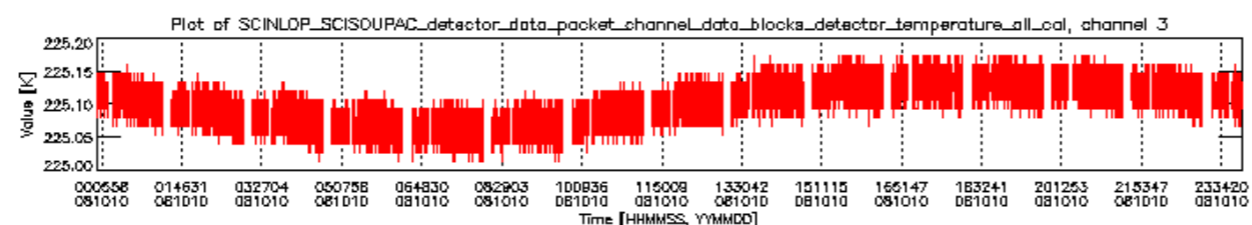
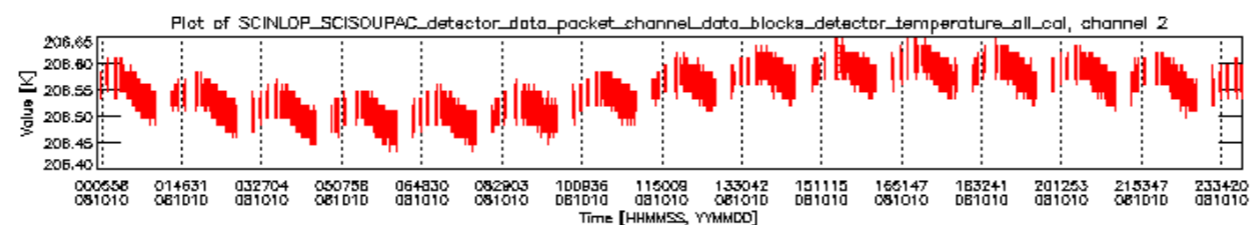
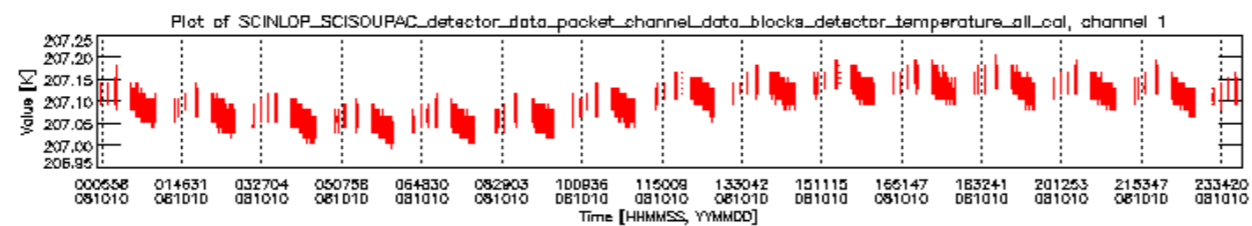














Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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