

# 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	27SEP2011 02:52:45
Data source version	KSPT_L0/4504-N
Processing scope for products	20SEP2011 00:00:00 to 21SEP2011 00:00:00
Start time of first product within scope	20SEP2011 01:21:56
Stop time of last product within scope	21SEP2011 00:47:27
Total number of Level 0 products	7
Number of Level 0 products with errors	0

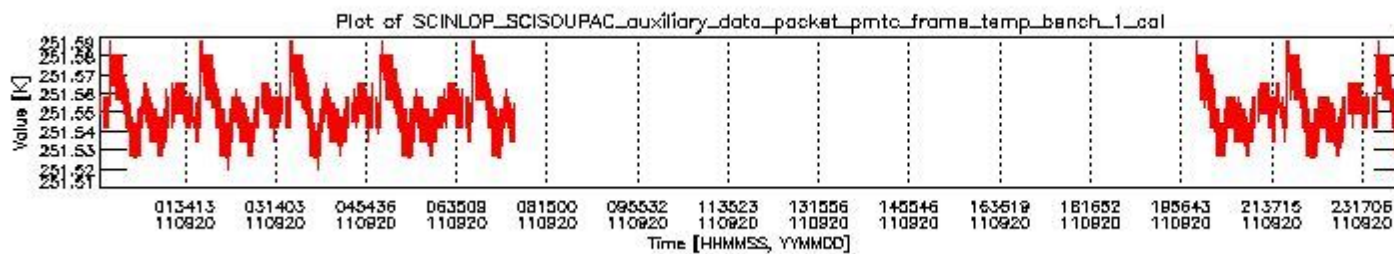
### 0.1.2 Summary per product

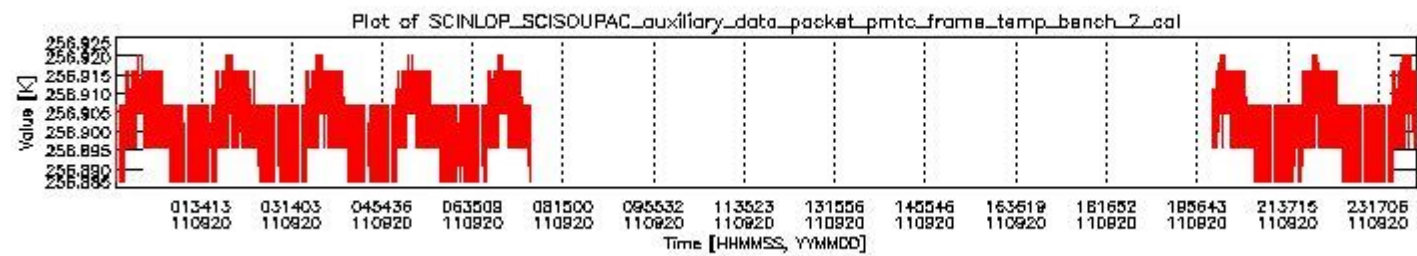
The following table shows a summary for each product used in this report.

#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDE20110920_012156_000102543106_00390_49973_7183.N1	20SEP2011 01:21:56	20SEP2011 04:12:50	0	0	0	0	0
1	SCI_NL__0PNPDE20110920_041141_000062743106_00392_49975_7184.N1	20SEP2011 04:11:41	20SEP2011 05:56:16	0	0	0	0	0
2	SCI_NL__0PNPDE20110920_055616_000061233106_00393_49976_7185.N1	20SEP2011 05:56:16	20SEP2011 07:38:19	0	0	0	0	0
3	SCI_NL__0PNPDK20110920_073819_000000003106_00394_49977_5730.N1	20SEP2011 07:38:19	20SEP2011 07:38:19	0	0	0	0	0
4	SCI_NL__0PNPDE20110920_201353_000042573106_00402_49985_7186.N1	20SEP2011 20:13:53	20SEP2011 21:24:50	0	0	0	0	0
5	SCI_NL__0PNPDE20110920_212450_000061473106_00402_49985_7187.N1	20SEP2011 21:24:50	20SEP2011 23:07:17	0	0	0	0	0
6	SCI_NL__0PNPDE20110920_230556_000060913106_00403_49986_7188.N1	20SEP2011 23:05:56	21SEP2011 00:47:27	0	0	0	0	0

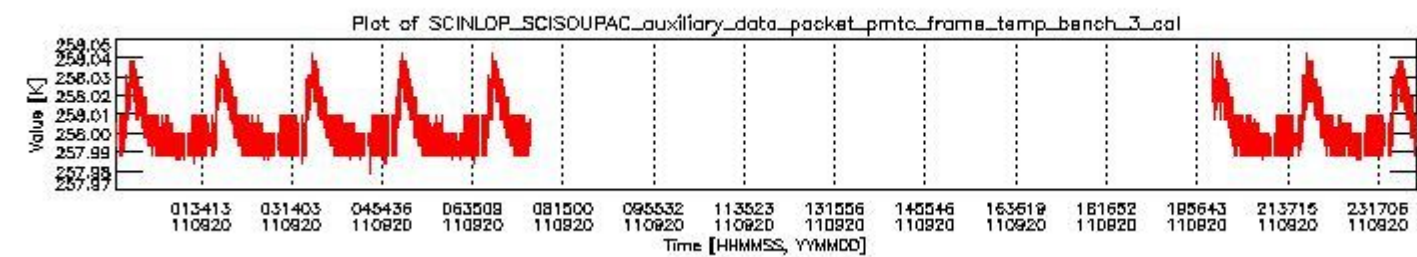
## 0.2 Product Quality Indicators

This section shows information about product quality, currently temperatures.

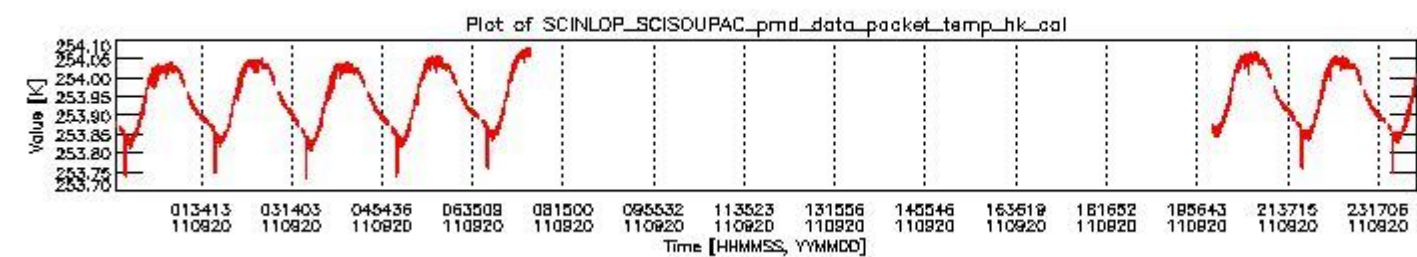




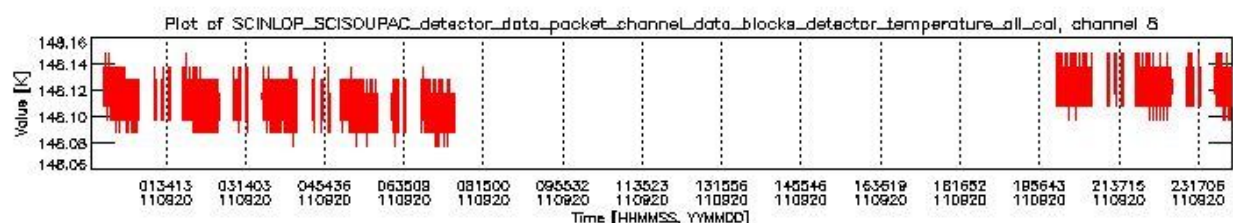
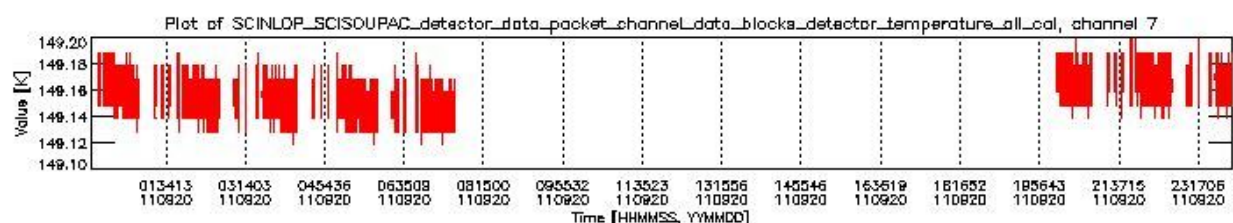
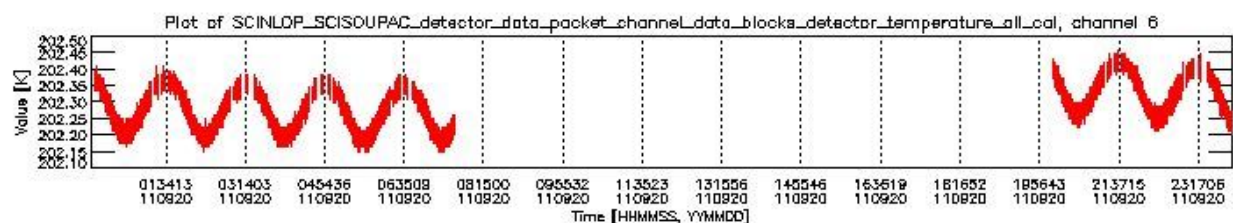
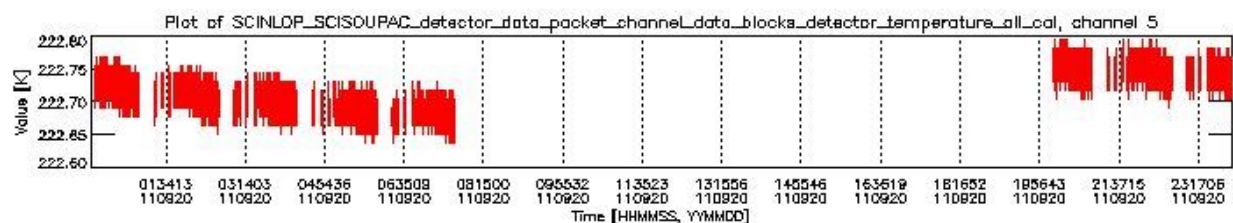
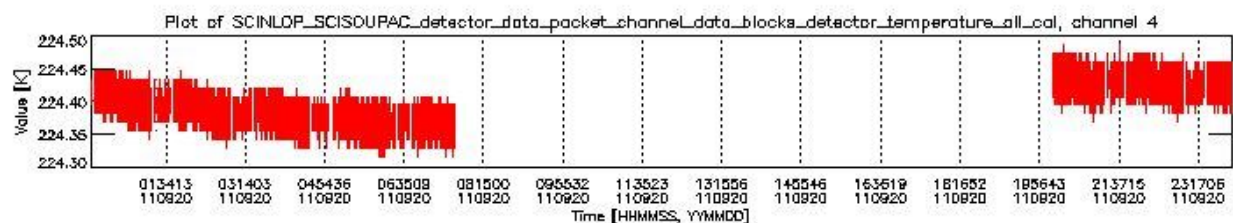
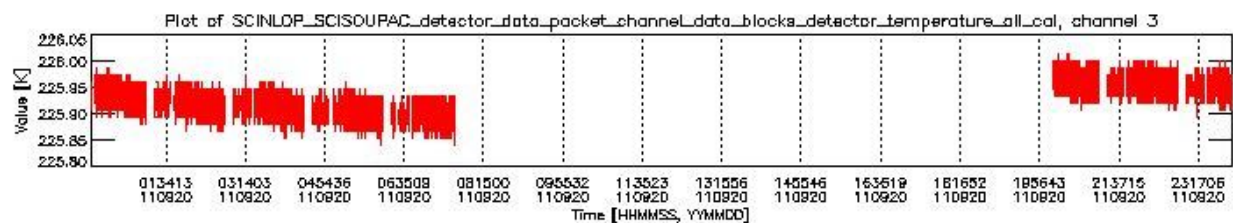
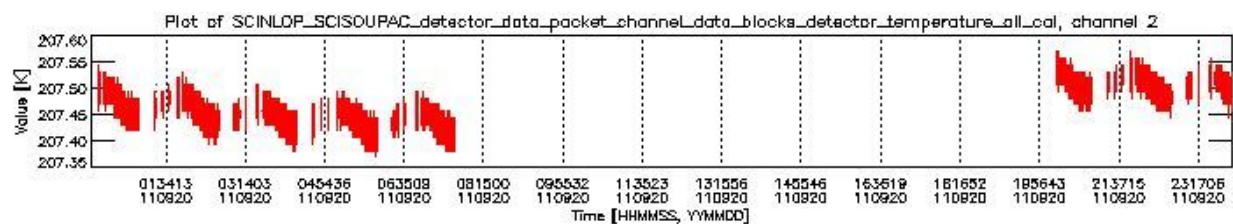
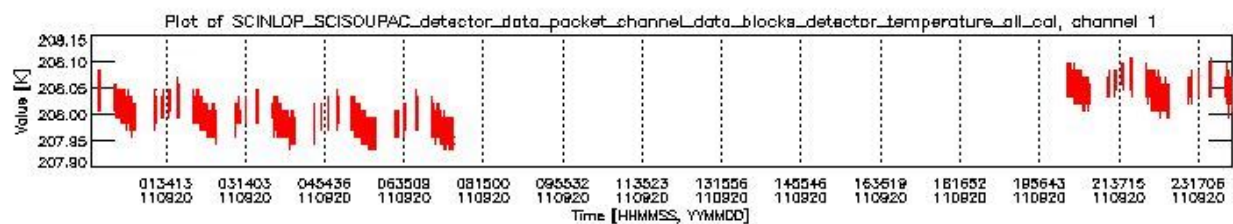
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110920\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110920\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110920\_3.PNG



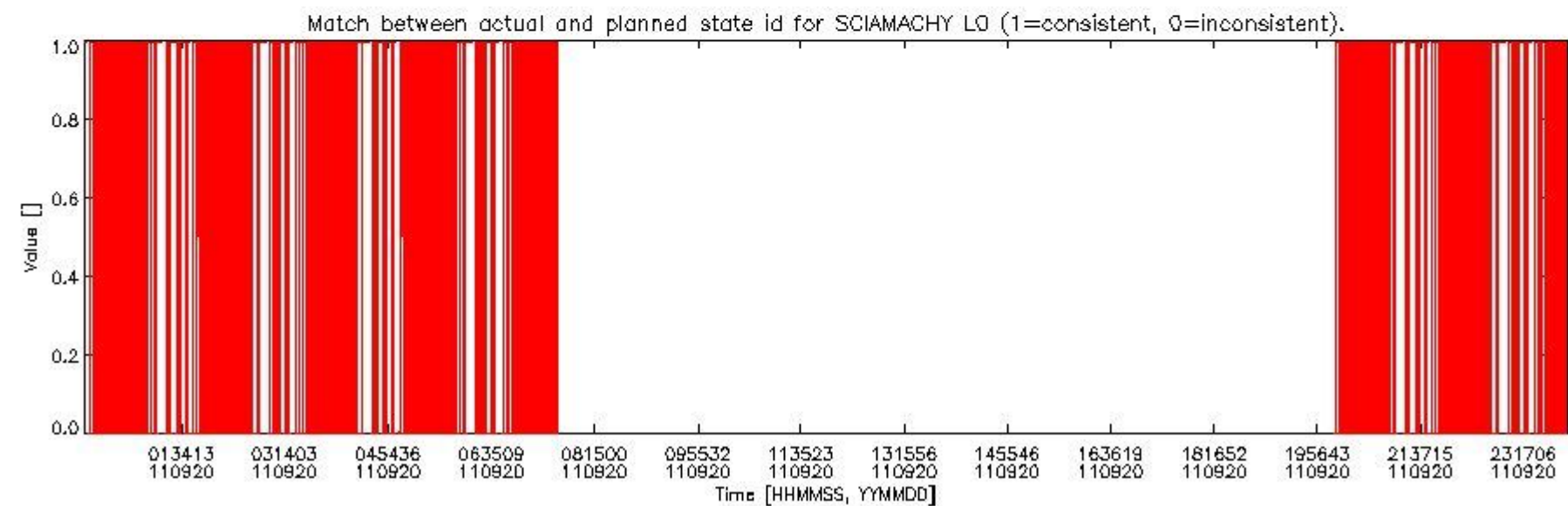
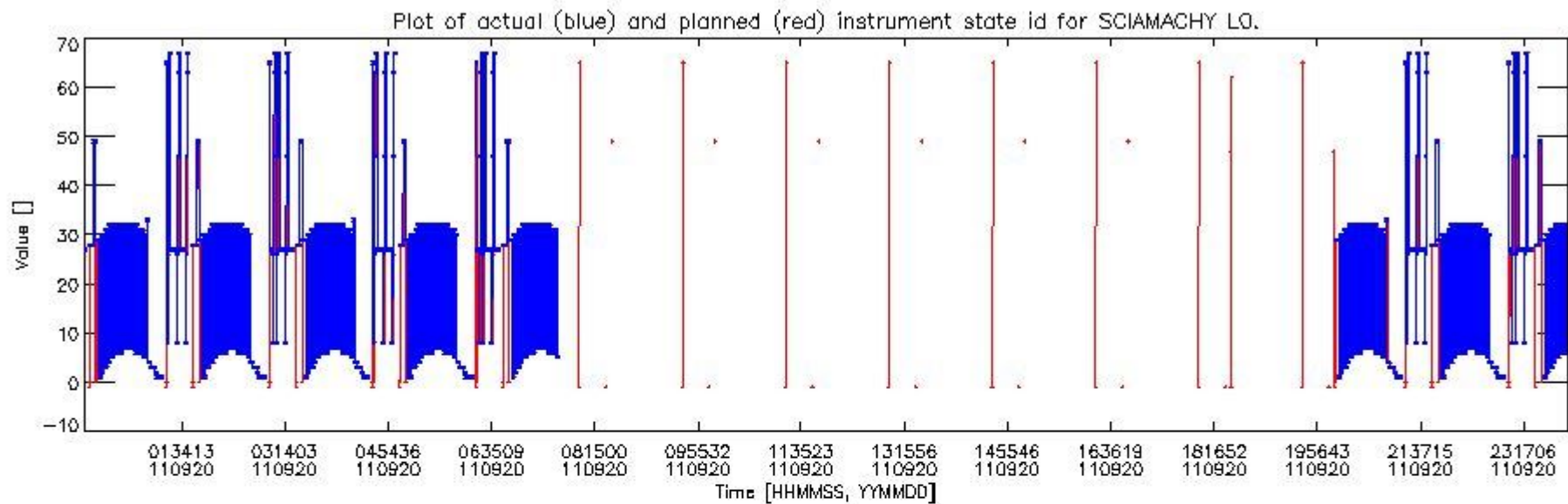
### 0.3 State monitoring

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: **33804**

#	Actual time	Actual value	Planned time	Planned value
0	20SEP2011 00:04:51.284749	28	20SEP2011 00:04:51.284749	0
1	20SEP2011 00:04:51.909749	28	20SEP2011 00:04:51.909749	0
2	20SEP2011 00:04:52.284749	28	20SEP2011 00:04:52.284749	0
3	20SEP2011 00:04:52.659749	28	20SEP2011 00:04:52.659749	0
4	20SEP2011 00:04:53.222249	28	20SEP2011 00:04:53.222249	0
5	20SEP2011 00:04:53.597249	28	20SEP2011 00:04:53.597249	0
6	20SEP2011 00:04:53.972249	28	20SEP2011 00:04:53.972249	0
7	20SEP2011 00:04:54.347249	28	20SEP2011 00:04:54.347249	0
8	20SEP2011 00:04:54.909749	28	20SEP2011 00:04:54.909749	0
9	20SEP2011 00:04:55.284749	28	20SEP2011 00:04:55.284749	0
10	20SEP2011 00:04:55.659749	28	20SEP2011 00:04:55.659749	0
11	20SEP2011 00:04:56.034749	28	20SEP2011 00:04:56.034749	0
12	20SEP2011 00:04:56.284749	28	20SEP2011 00:04:56.284749	0
13	20SEP2011 00:04:56.597249	28	20SEP2011 00:04:56.597249	0
14	20SEP2011 00:04:56.972249	28	20SEP2011 00:04:56.972249	0
15	20SEP2011 00:04:57.347249	28	20SEP2011 00:04:57.347249	0
16	20SEP2011 00:04:57.722249	28	20SEP2011 00:04:57.722249	0
17	20SEP2011 00:04:58.284749	28	20SEP2011 00:04:58.284749	0
18	20SEP2011 00:04:58.659749	28	20SEP2011 00:04:58.659749	0
19	20SEP2011 00:04:59.034749	28	20SEP2011 00:04:59.034749	0
...	...	...	...	...



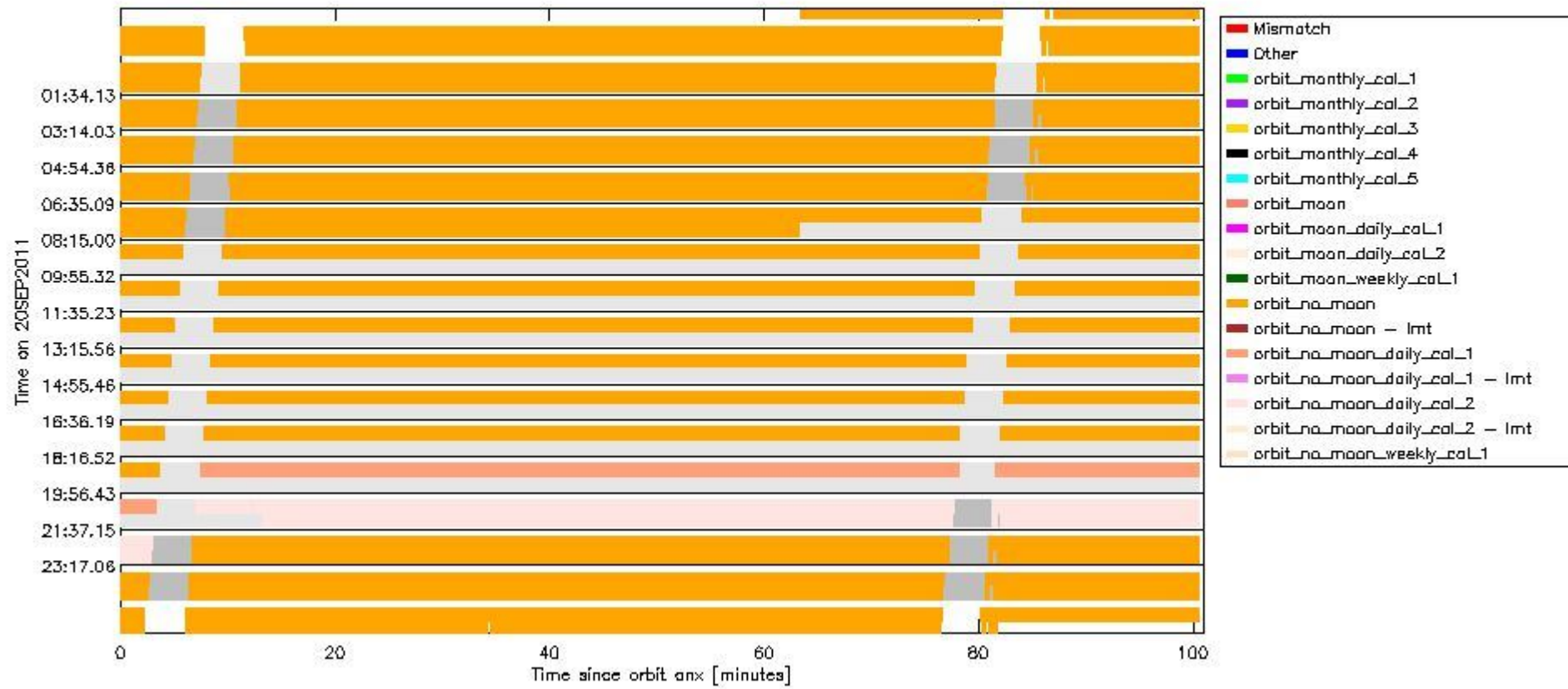


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110920\_5.PNG

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 20SEP2011.  
 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\_4504\_N\_20110920\_6.PNG

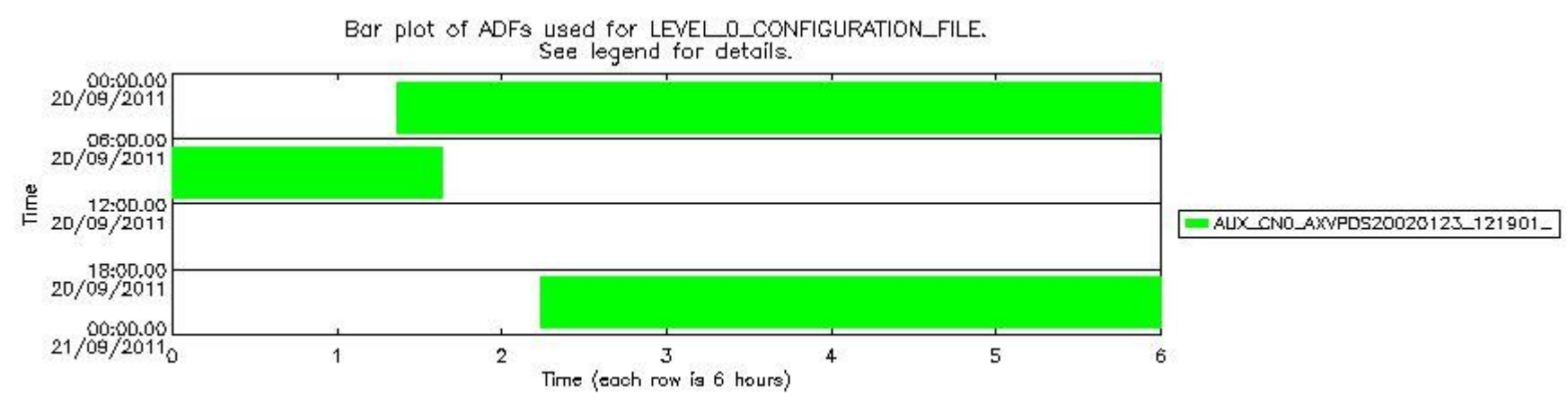
## 0.4 ADF monitoring

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

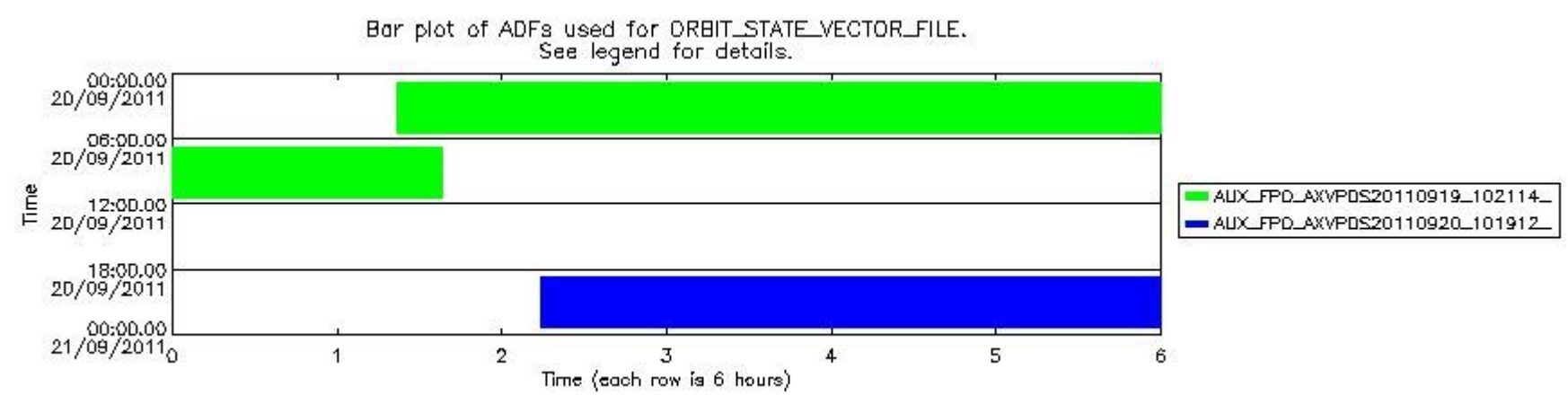
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

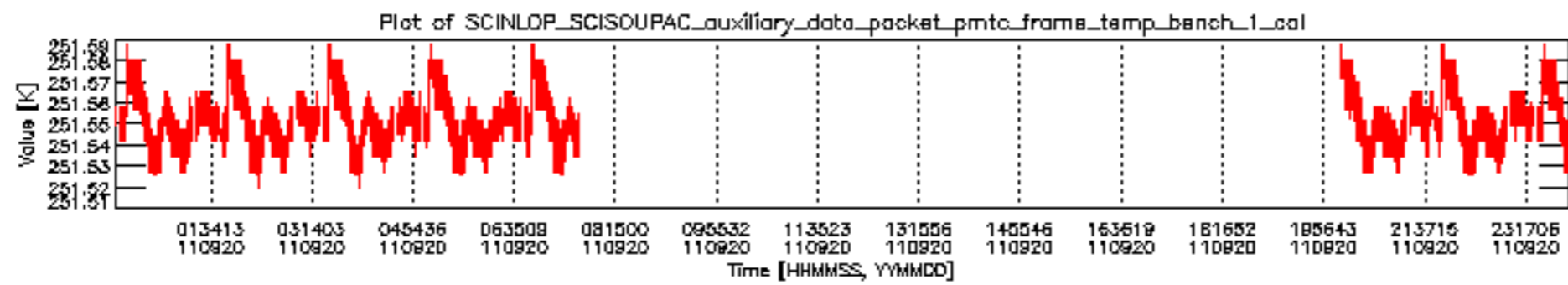
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110919_102114_20110918_193001_20110928_200332
2	AUX_FPO_AXVPDS20110920_101912_20110919_185316_20110929_210701



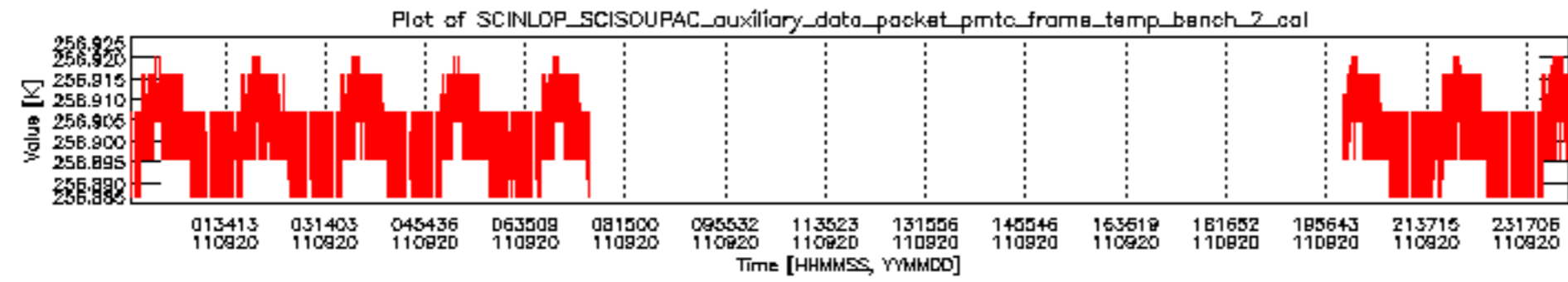
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110920\_7.PNG

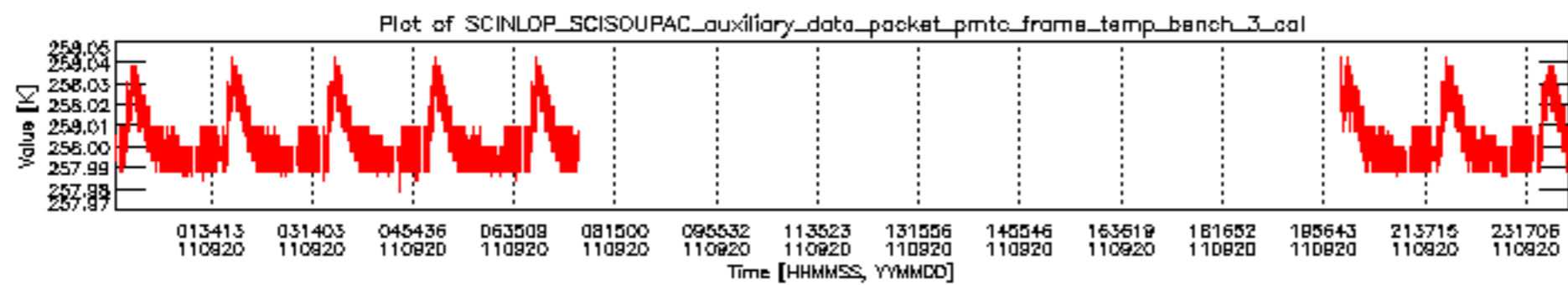


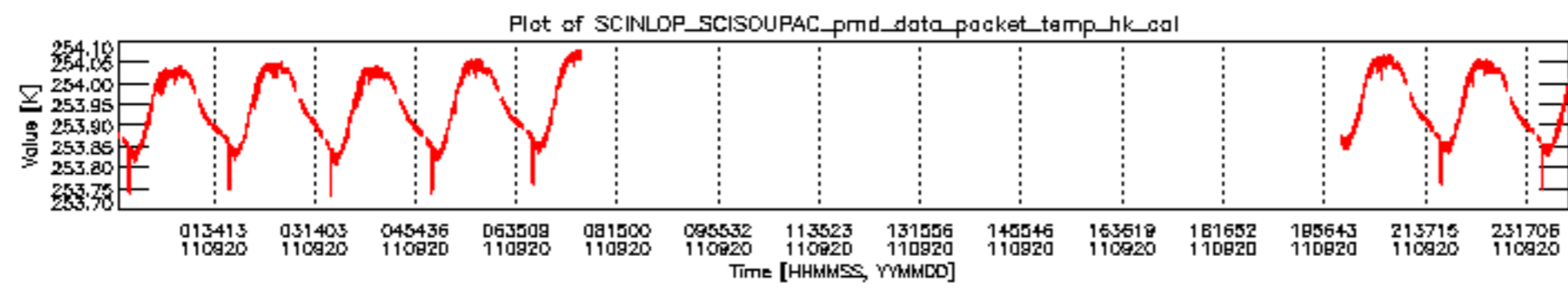
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110920\_8.PNG

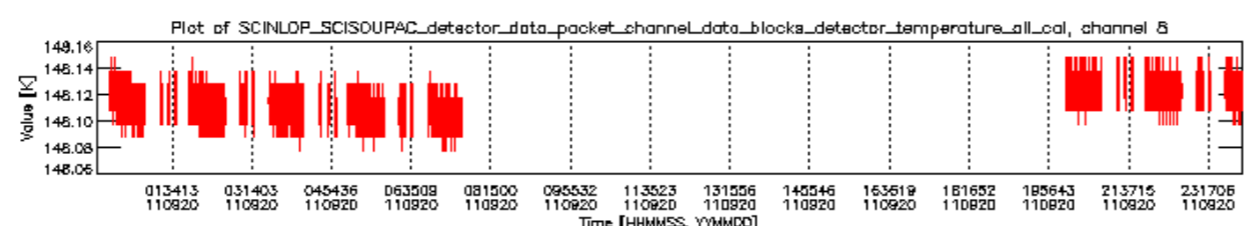
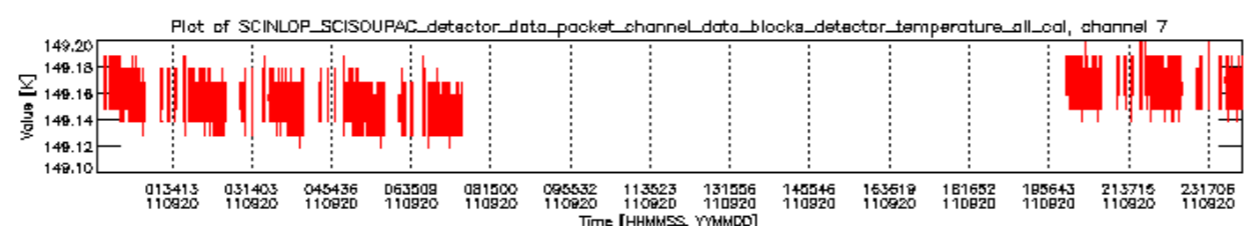
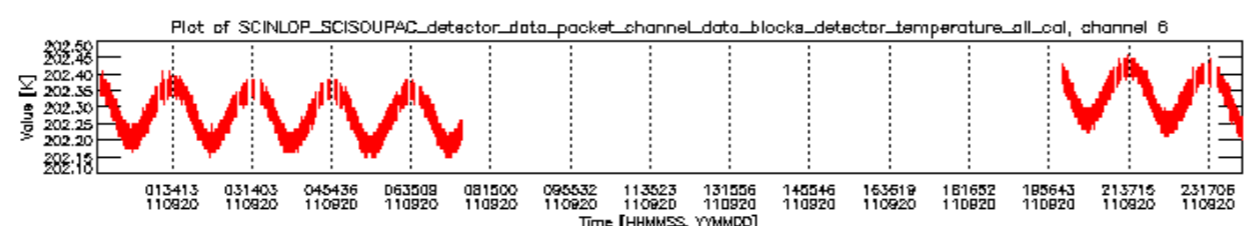
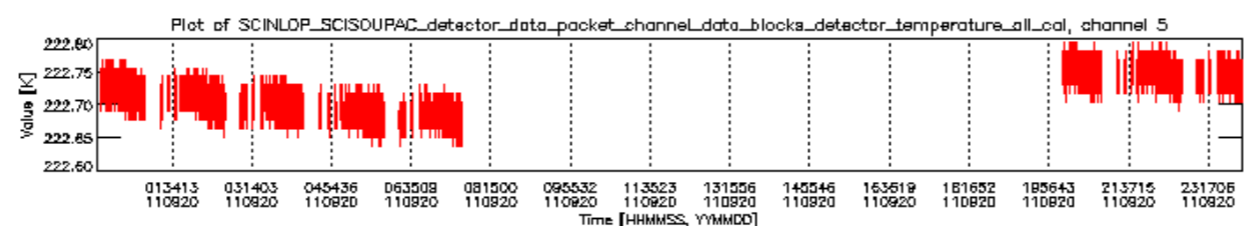
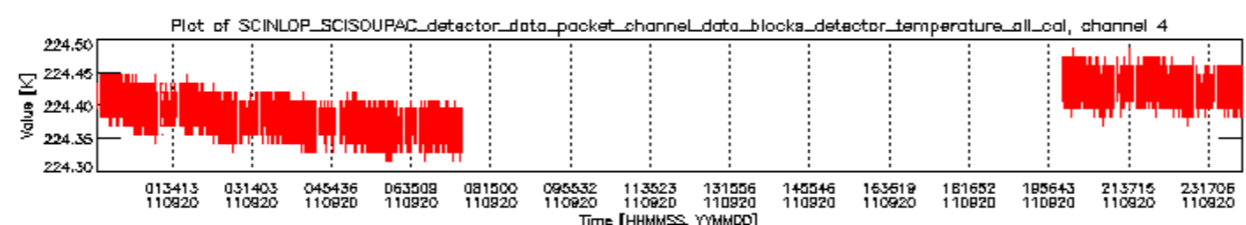
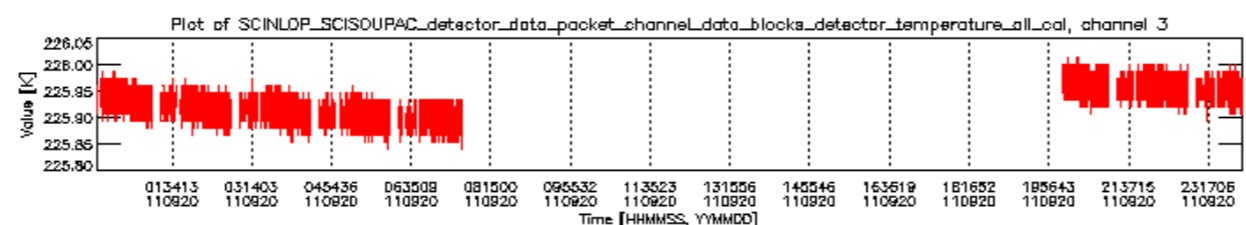
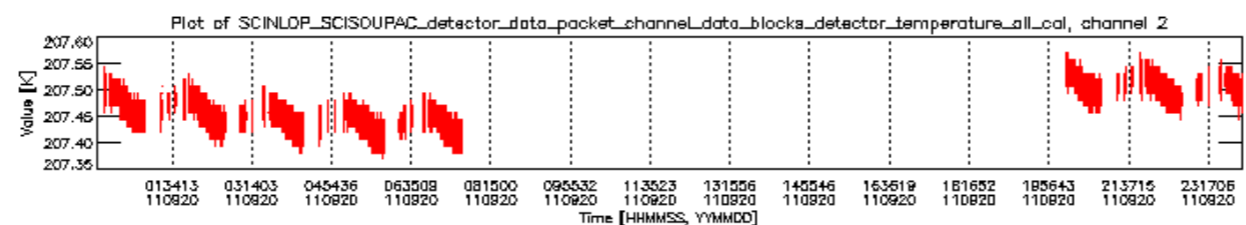
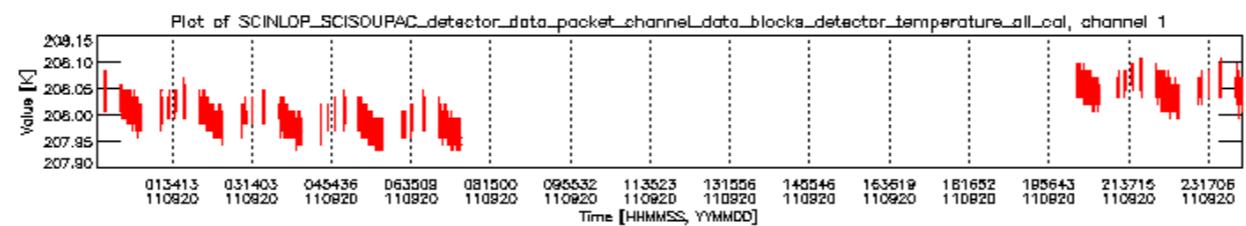


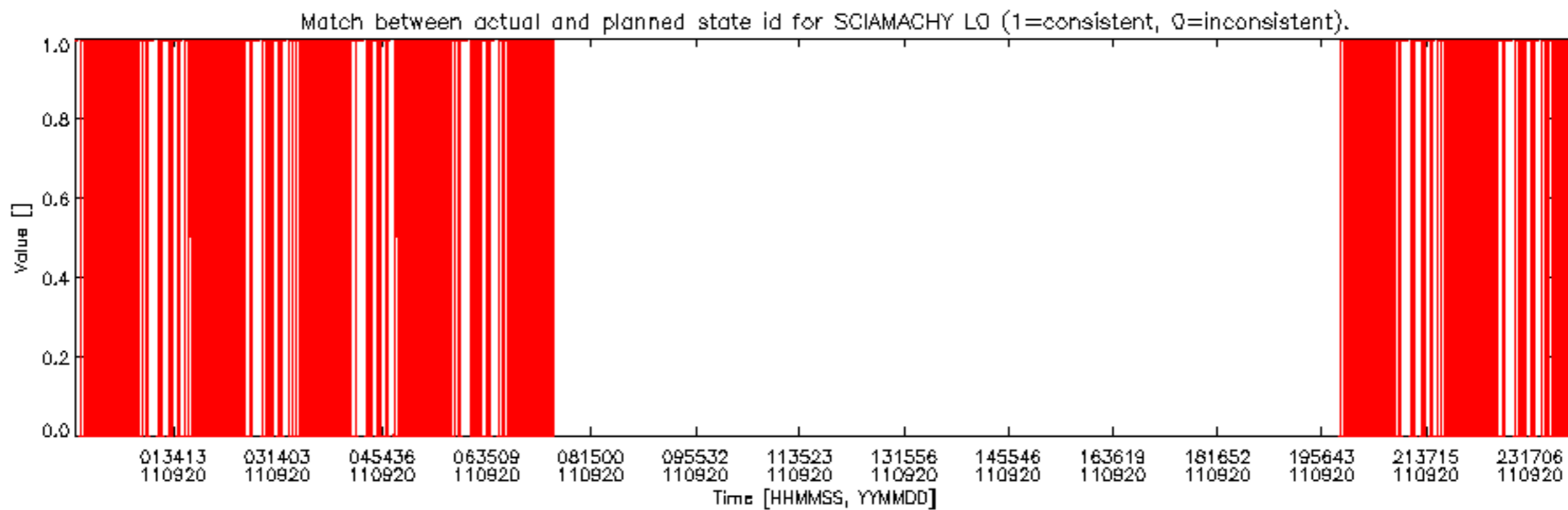
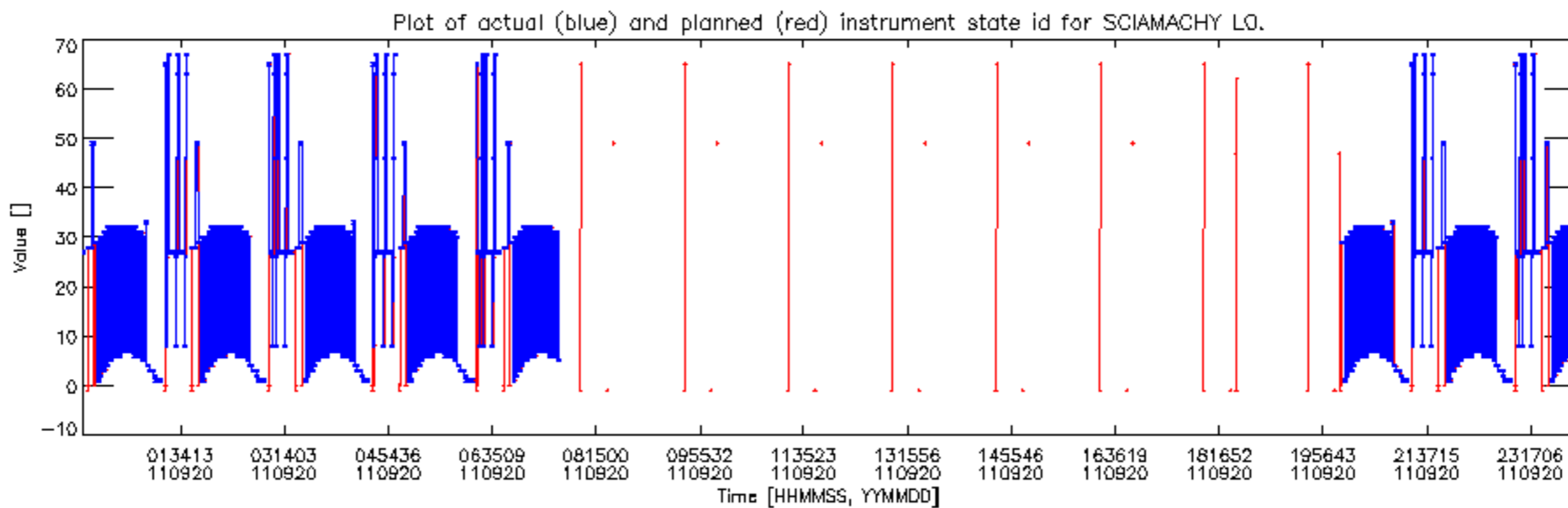














Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 20SEP2011.  
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