

# 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	10APR2011 03:02:47
Data source version	KSPT_L0/4504-N
Processing scope for products	03APR2011 00:00:00 to 04APR2011 00:00:00
Start time of first product within scope	03APR2011 00:12:23
Stop time of last product within scope	03APR2011 15:50:11
Total number of Level 0 products	10
Number of Level 0 products with errors	2

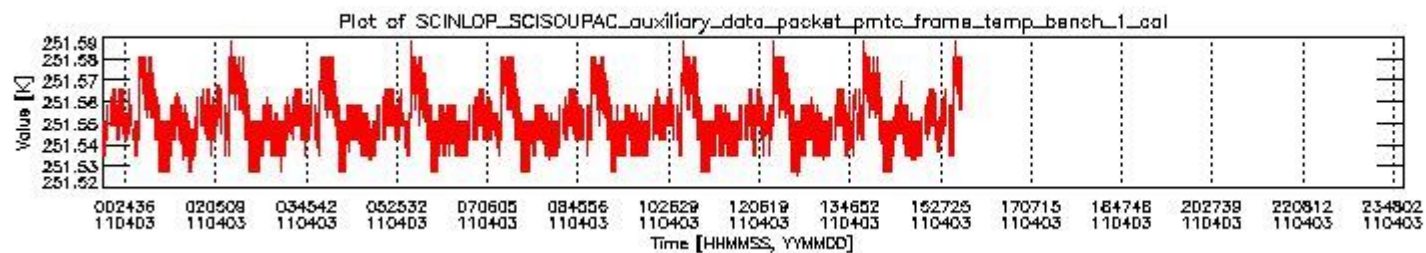
### 0.1.2 Summary per product

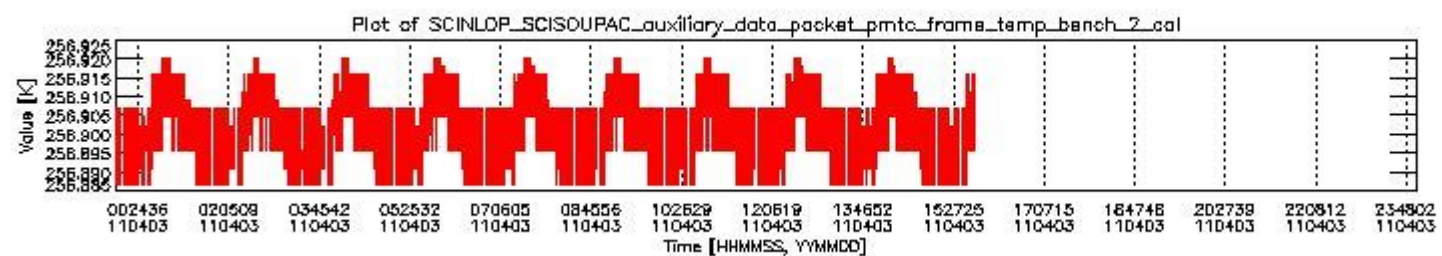
The following table shows a summary for each product used in this report.

#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDE20110403_001223_000059283101_00102_47530_2852.N1	03APR2011 00:12:23	03APR2011 01:51:11	0	0	0	0	0
1	SCI_NL__0PNPDE20110403_015024_000044193101_00103_47531_2853.N1	03APR2011 01:50:24	03APR2011 03:04:03	0	0	0	0	0
2	SCI_NL__0PNPDE20110403_030403_000061363101_00104_47532_2854.N1	03APR2011 03:04:03	03APR2011 04:46:19	0	0	0	0	0
3	SCI_NL__0PNPDE20110403_044619_000060143101_00105_47533_2855.N1	03APR2011 04:46:19	03APR2011 06:26:33	0	0	0	0	0
4	SCI_NL__0PNPDK20110403_062633_000041043101_00106_47534_4250.N1	03APR2011 06:26:33	03APR2011 07:34:57	1	1	0	0	0
5	SCI_NL__0PNPDK20110403_073403_000061363101_00107_47535_4251.N1	03APR2011 07:34:03	03APR2011 09:16:19	0	0	0	0	0
6	SCI_NL__0PNPDK20110403_091525_000059453101_00108_47536_4252.N1	03APR2011 09:15:25	03APR2011 10:54:30	0	0	0	0	0
7	SCI_NL__0PNPDK20110403_105321_000060283101_00109_47537_4253.N1	03APR2011 10:53:21	03APR2011 12:33:49	0	0	0	0	0
8	SCI_NL__0PNPDK20110403_123241_000059453101_00110_47538_4254.N1	03APR2011 12:32:41	03APR2011 14:11:46	1	1	0	0	0
9	SCI_NL__0PNPDK20110403_141051_000059593101_00111_47539_4255.N1	03APR2011 14:10:51	03APR2011 15:50:11	0	0	0	0	0

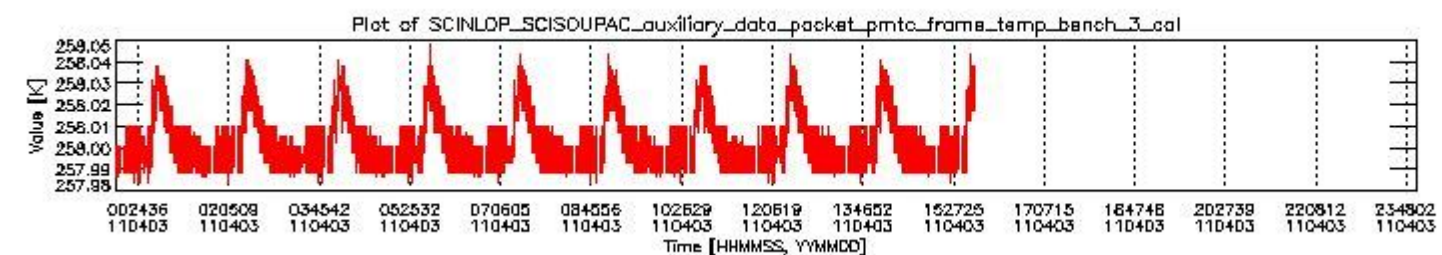
## 0.2 Product Quality Indicators

This section shows information about product quality, currently temperatures.

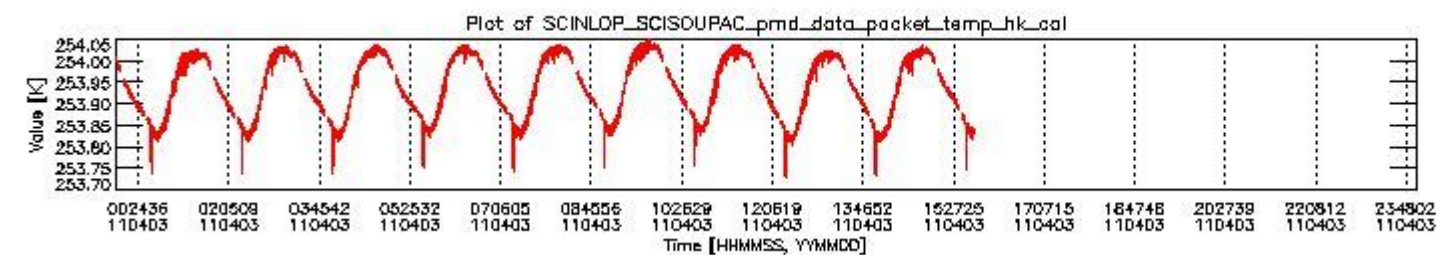




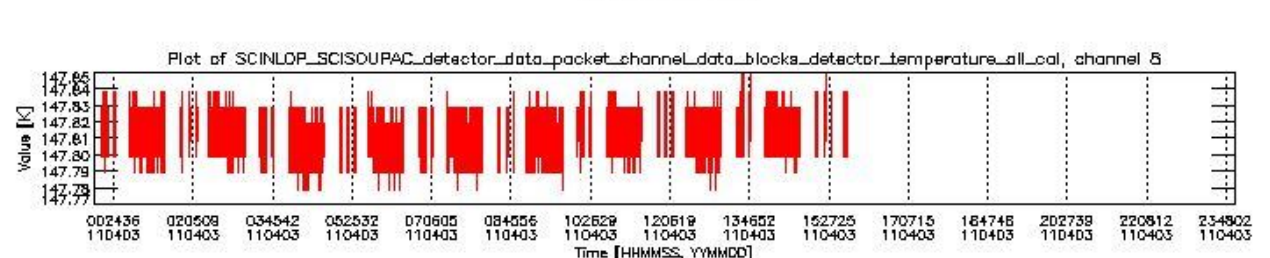
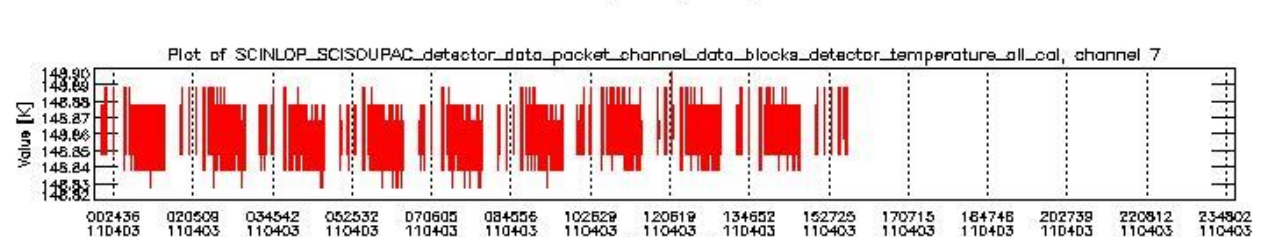
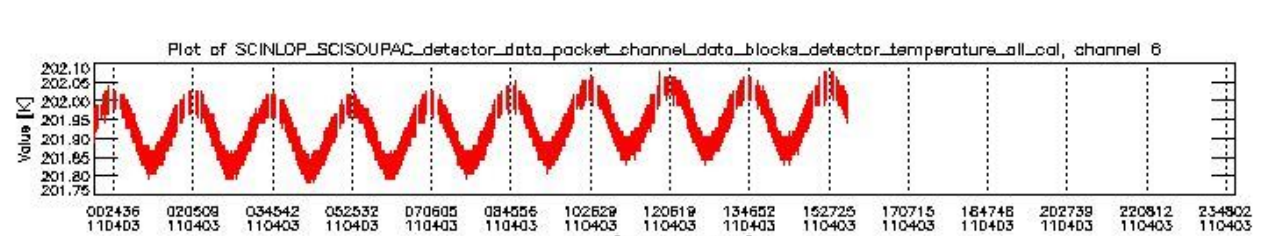
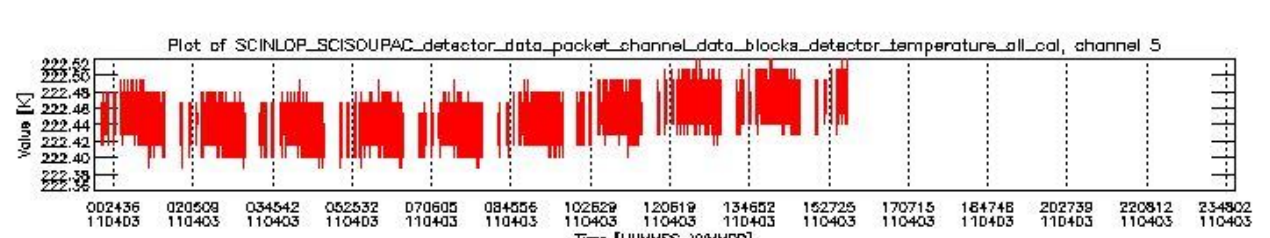
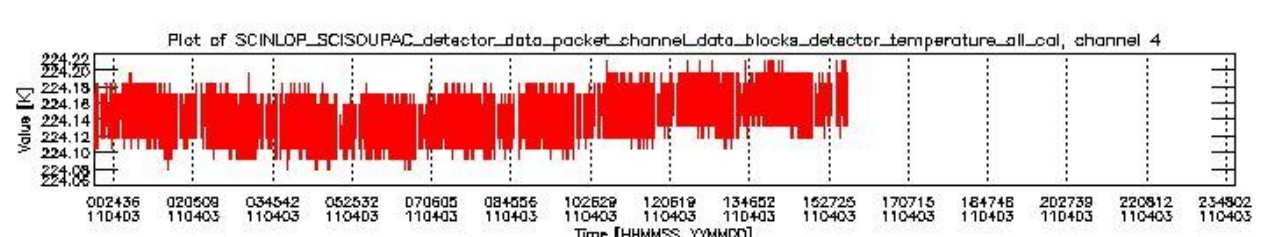
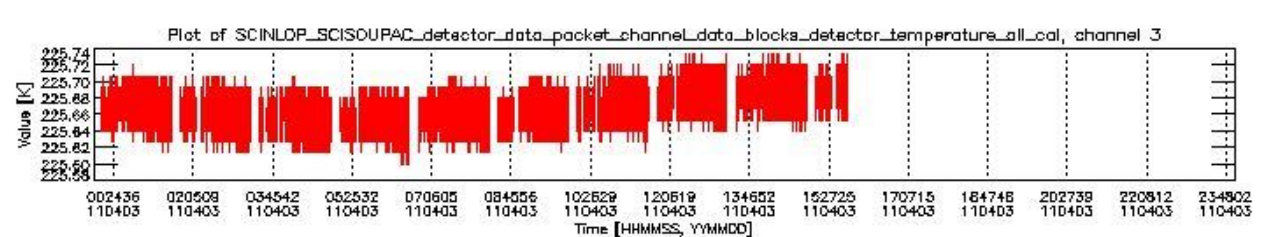
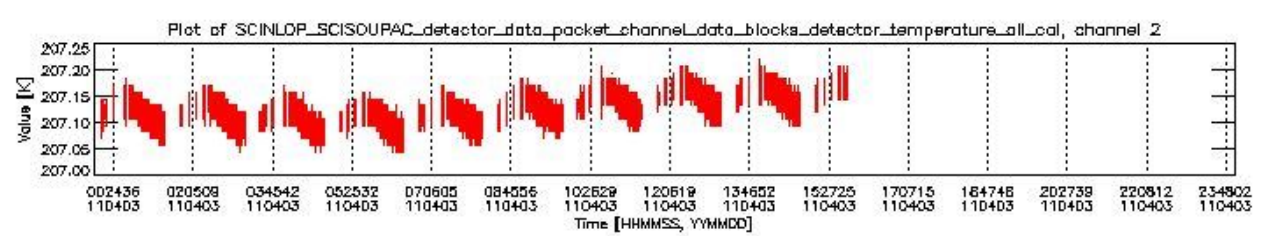
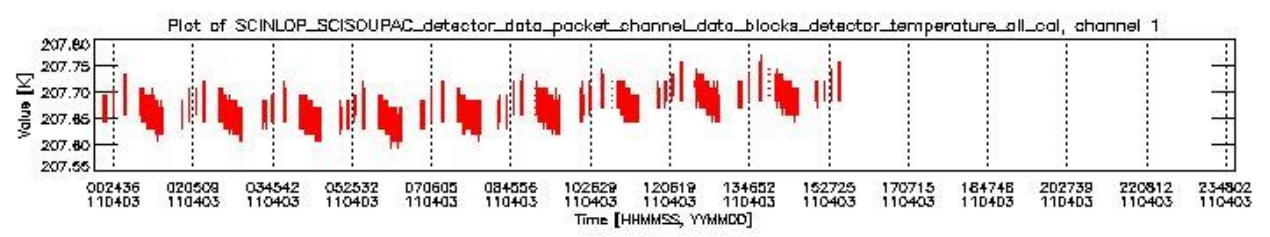
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110403\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110403\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110403\_3.PNG



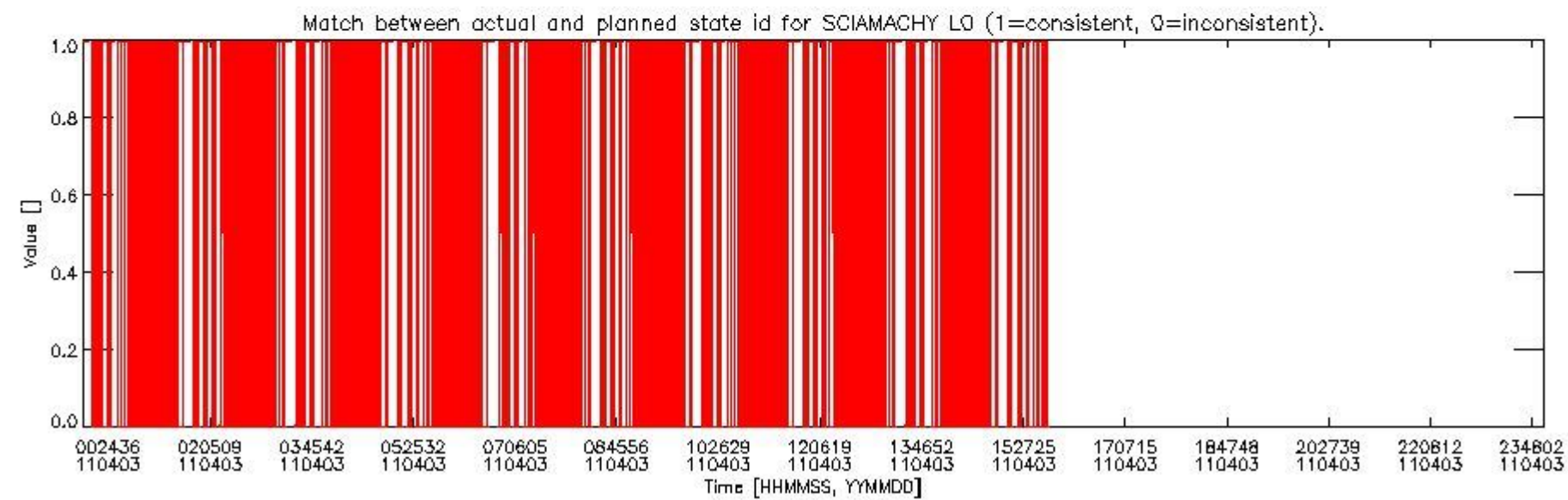
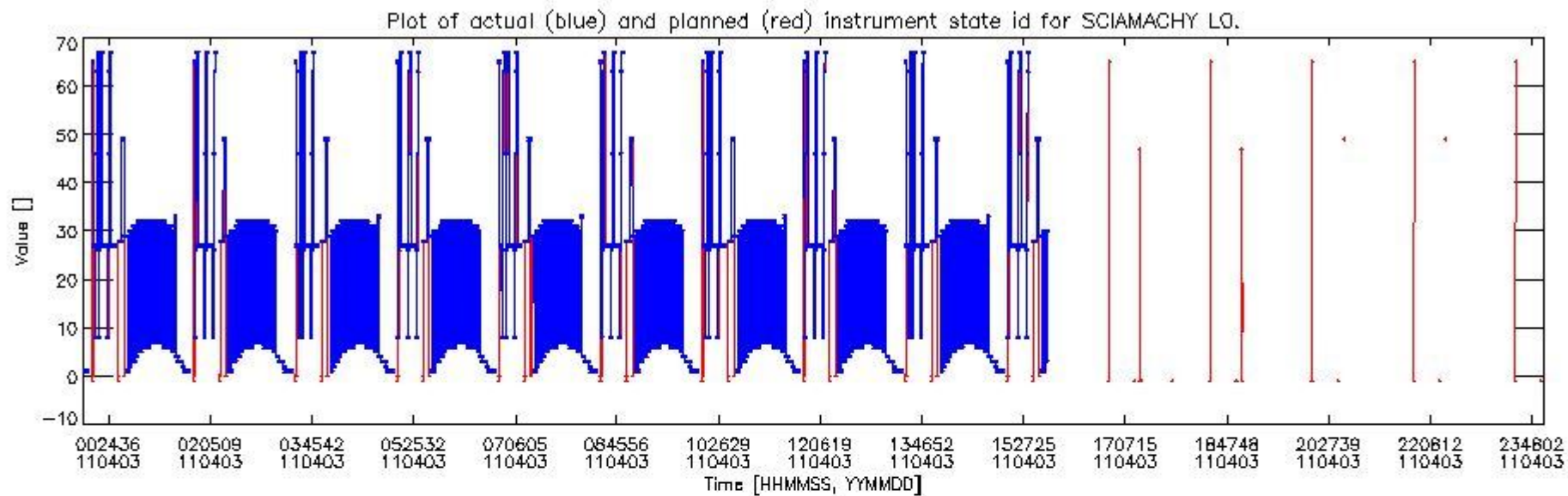


### 0.3 State monitoring

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: **32414**

#	Actual time	Actual value	Planned time	Planned value
0	03APR2011 00:08:43.862390	65	03APR2011 00:08:43.862390	0
1	03APR2011 00:08:44.487390	65	03APR2011 00:08:44.487390	0
2	03APR2011 00:08:44.987390	65	03APR2011 00:08:44.987390	0
3	03APR2011 00:08:45.487390	65	03APR2011 00:08:45.487390	0
4	03APR2011 00:08:45.987390	65	03APR2011 00:08:45.987390	0
5	03APR2011 00:08:46.487390	65	03APR2011 00:08:46.487390	0
6	03APR2011 00:08:46.987390	65	03APR2011 00:08:46.987390	0
7	03APR2011 00:08:47.487390	65	03APR2011 00:08:47.487390	0
8	03APR2011 00:08:47.987390	65	03APR2011 00:08:47.987390	0
9	03APR2011 00:08:48.487390	65	03APR2011 00:08:48.487390	0
10	03APR2011 00:08:48.862390	65	03APR2011 00:08:48.862390	0
11	03APR2011 00:08:48.987390	65	03APR2011 00:08:48.987390	0
12	03APR2011 00:08:49.487390	65	03APR2011 00:08:49.487390	0
13	03APR2011 00:08:49.987390	65	03APR2011 00:08:49.987390	0
14	03APR2011 00:08:50.487390	65	03APR2011 00:08:50.487390	0
15	03APR2011 00:08:50.987390	65	03APR2011 00:08:50.987390	0
16	03APR2011 00:08:51.487390	65	03APR2011 00:08:51.487390	0
17	03APR2011 00:08:51.987390	65	03APR2011 00:08:51.987390	0
18	03APR2011 00:08:52.487390	65	03APR2011 00:08:52.487390	0
19	03APR2011 00:08:52.987390	65	03APR2011 00:08:52.987390	0
	...	...	...	...

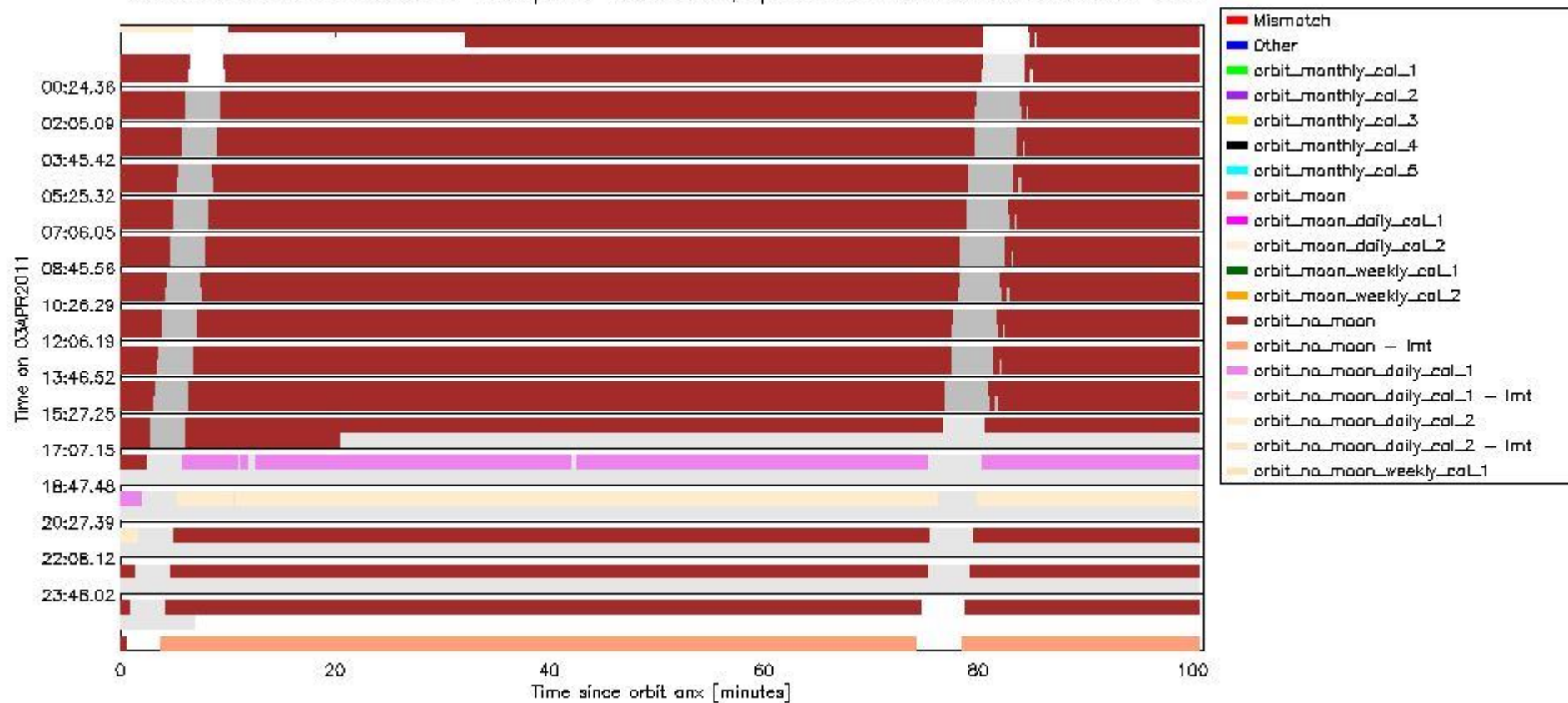


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110403\_5.PNG

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 Q3APR2011.  
 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\_20110403\_6.PNG

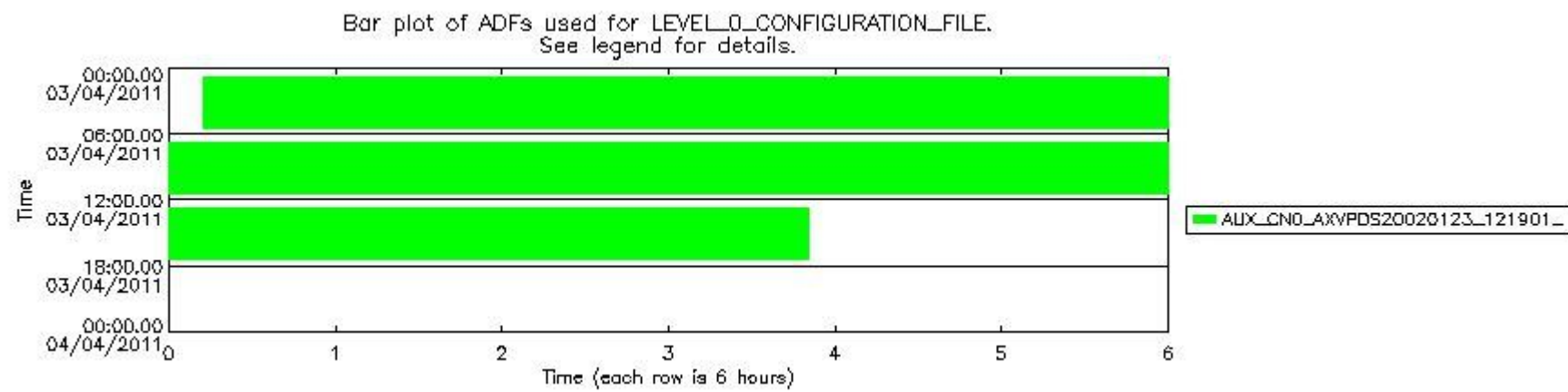
## 0.4 ADF monitoring

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

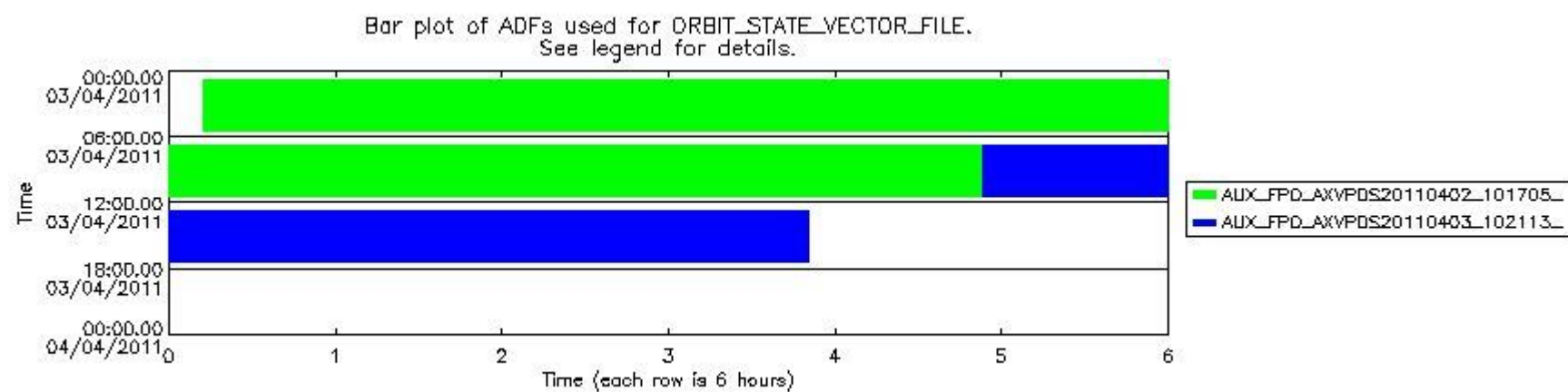
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

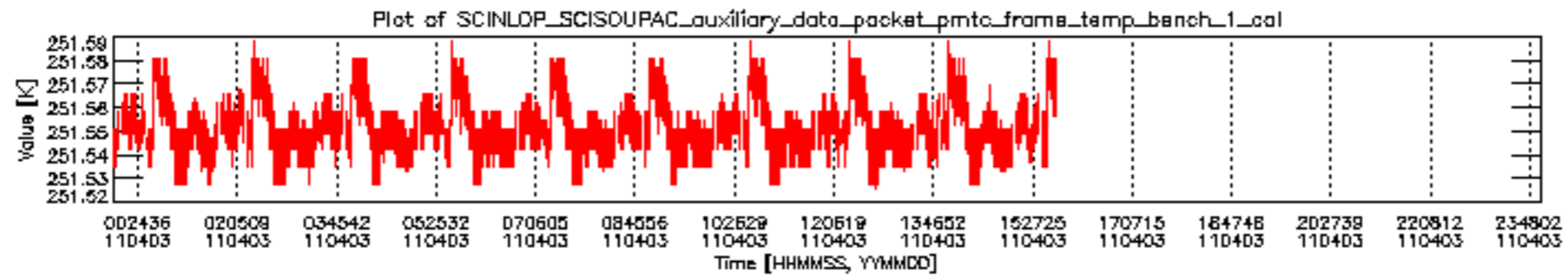
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110402_101705_20110401_182043_20110411_203431
2	AUX_FPO_AXVPDS20110403_102113_20110402_192413_20110412_213801



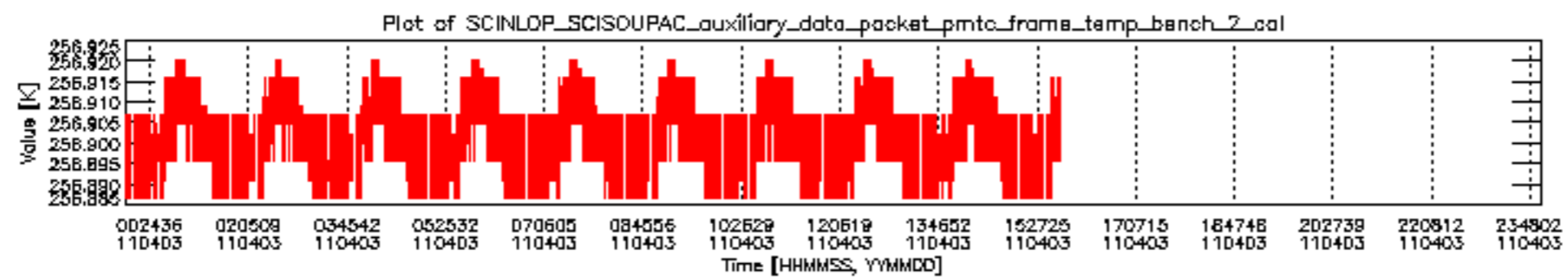
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110403\_7.PNG

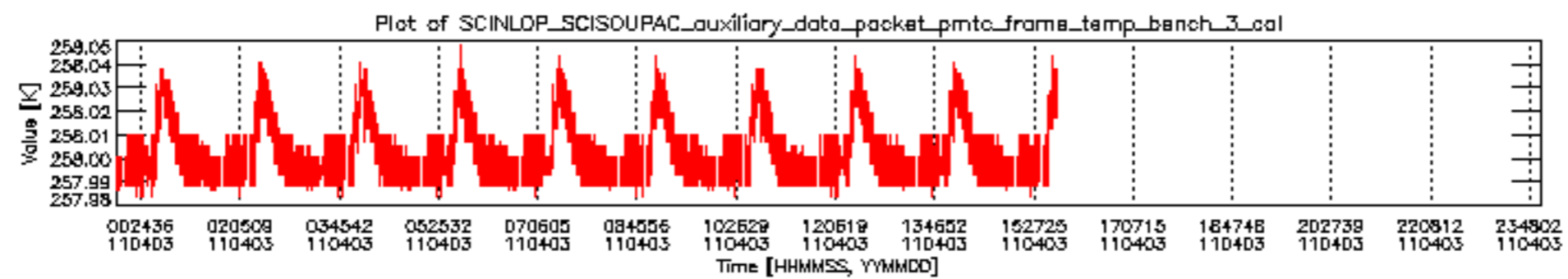


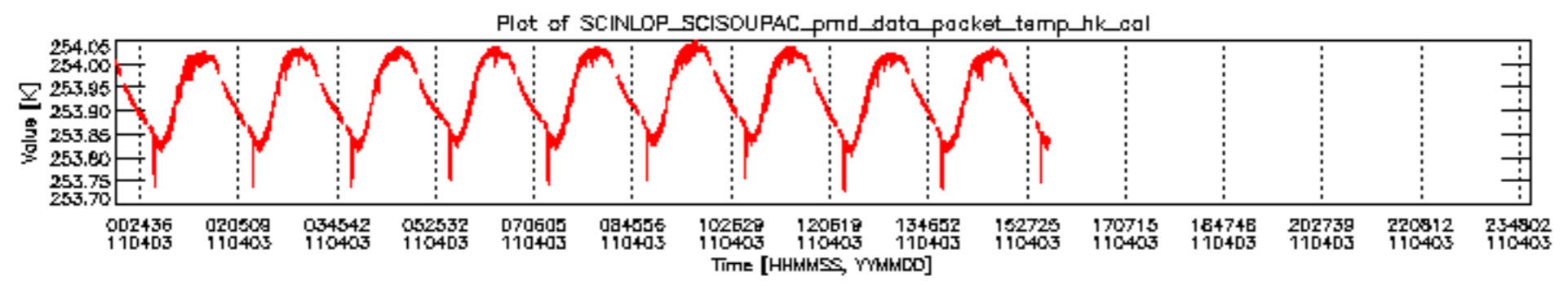
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110403\_8.PNG

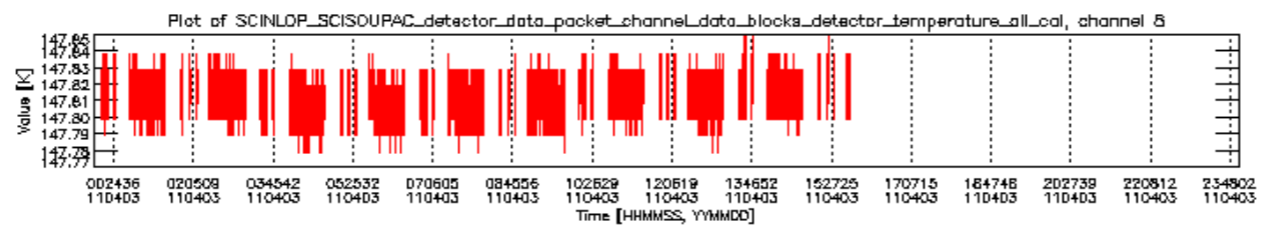
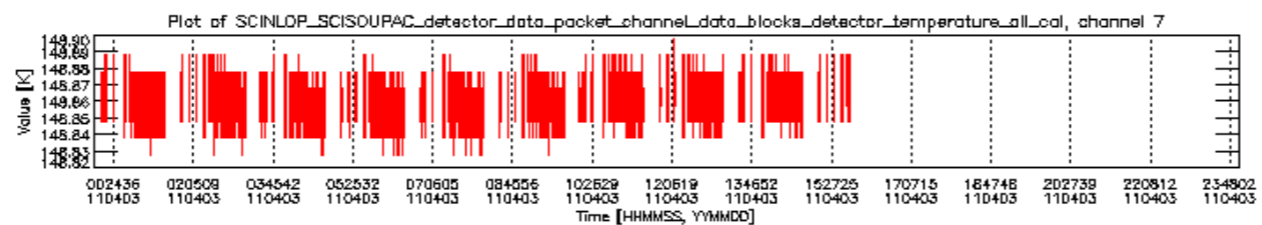
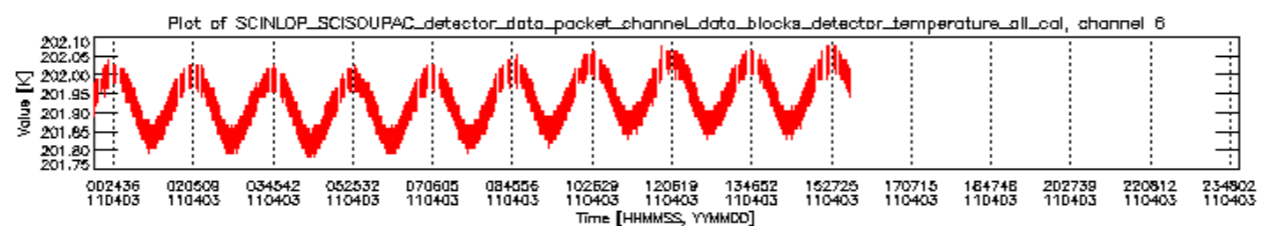
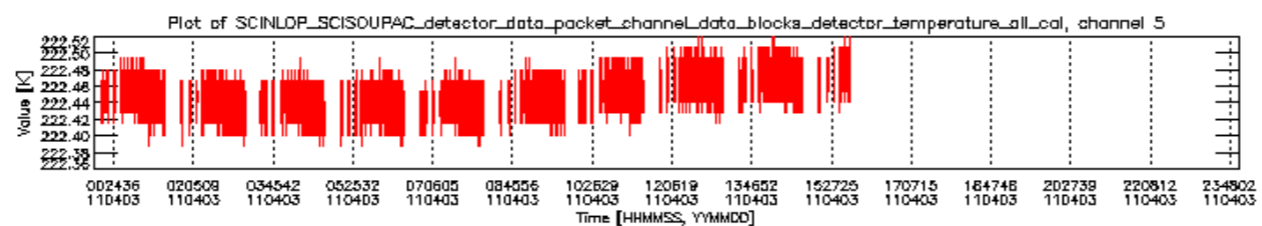
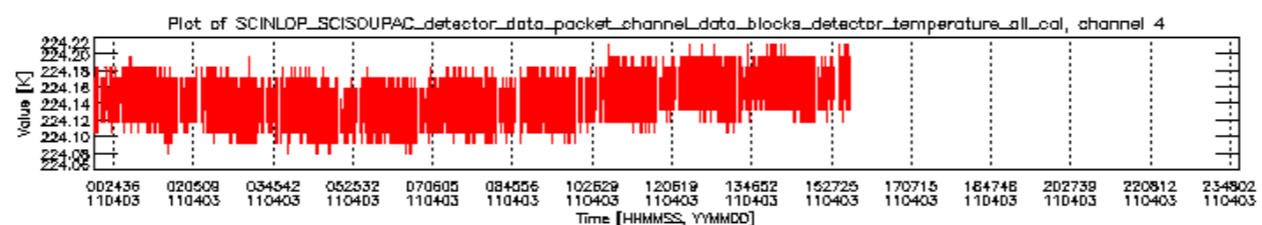
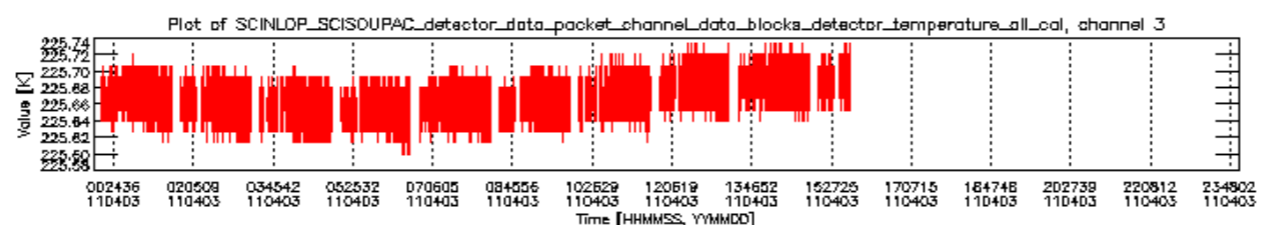
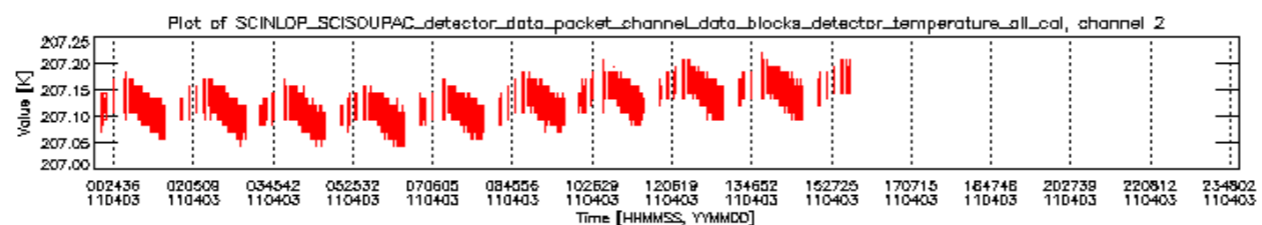
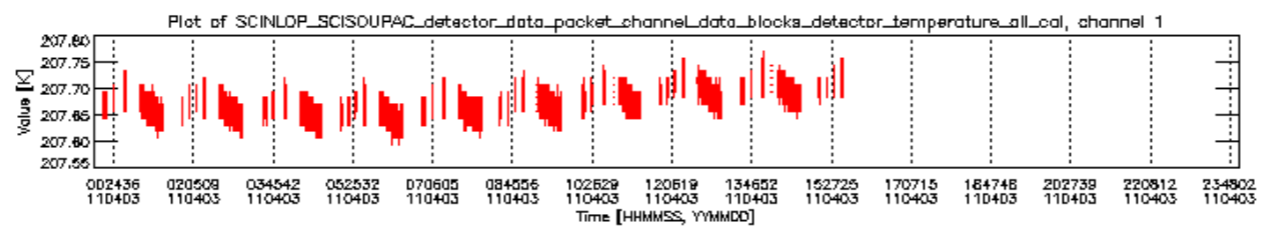




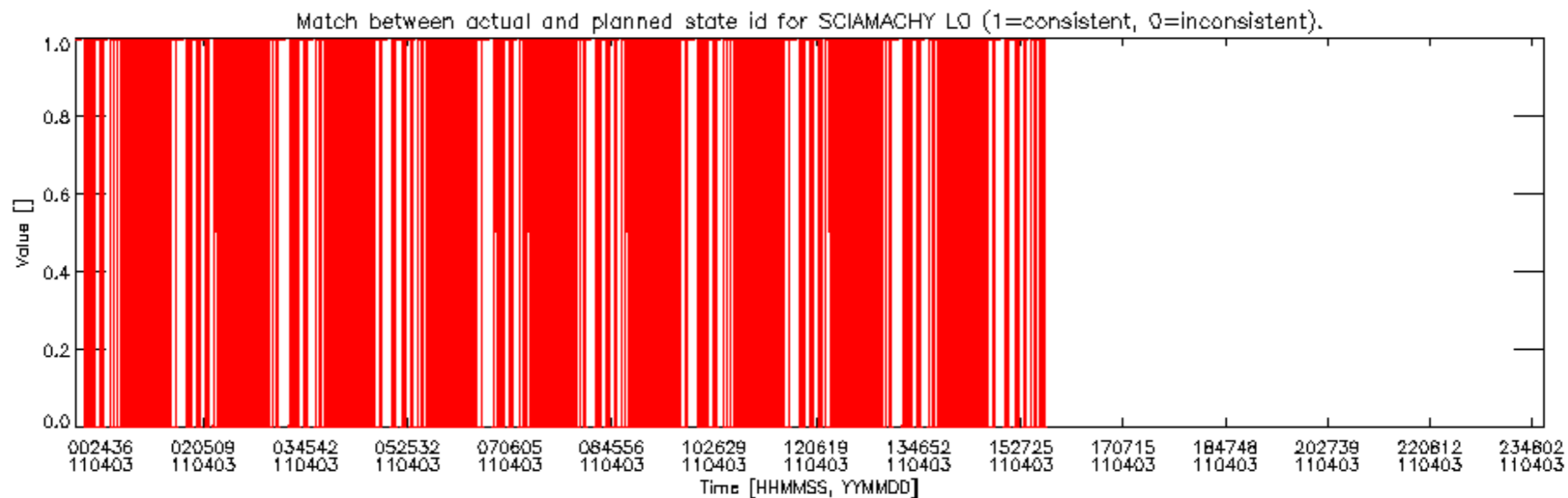
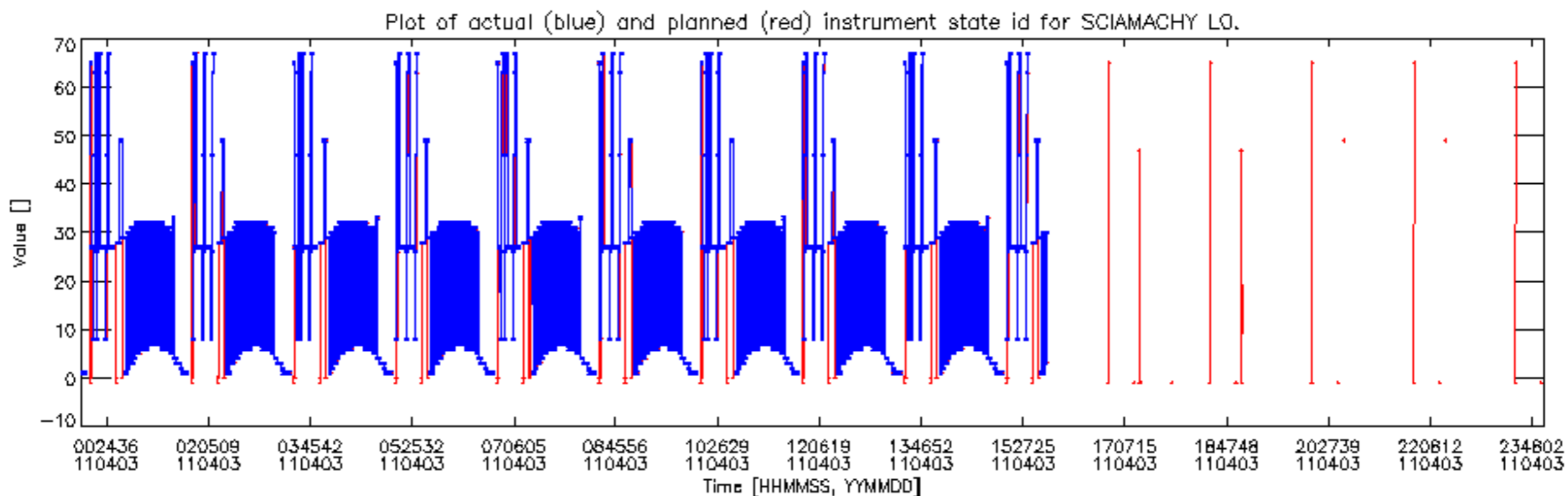












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 03APR2011.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

