

# 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	22APR2010 02:33:16
Data source version	<Any version>
Processing scope for products	15APR2010 00:00:00 to 16APR2010 00:00:00
Start time of first product within scope	15APR2010 11:27:27
Stop time of last product within scope	16APR2010 00:15:08
Total number of Level 0 products	9
Number of Level 0 products with errors	0

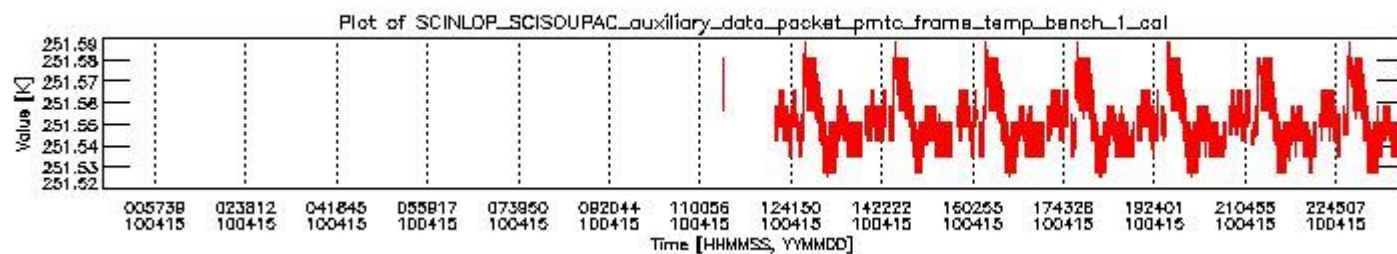
### 0.1.2 Summary per product

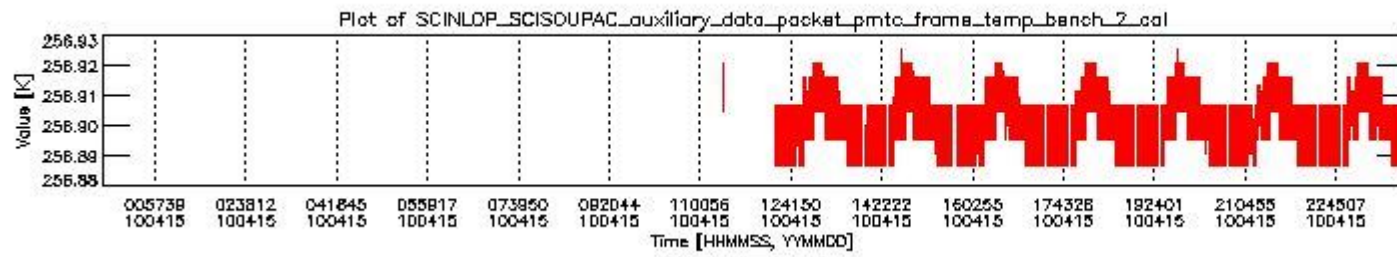
The following table shows a summary for each product used in this report.

#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__0PNPDK20100415_112727_00000002088_00338_42476_1133.N1	15APR2010 11:27:27	15APR2010 11:27:27	0	0	0	0	0
1	SCI_NL__0PNPDK20100415_122353_000026372088_00338_42476_1134.N1	15APR2010 12:23:53	15APR2010 13:07:50	0	0	0	0	0
2	SCI_NL__0PNPDK20100415_130642_000059672088_00339_42477_1135.N1	15APR2010 13:06:42	15APR2010 14:46:09	0	0	0	0	0
3	SCI_NL__0PNPDK20100415_144513_000059112088_00340_42478_1136.N1	15APR2010 14:45:13	15APR2010 16:23:44	0	0	0	0	0
4	SCI_NL__0PNPDK20100415_162140_000059862088_00341_42479_1137.N1	15APR2010 16:21:40	15APR2010 18:01:26	0	0	0	0	0
5	SCI_NL__0PNPDK20100415_180030_000059242088_00342_42480_1138.N1	15APR2010 18:00:30	15APR2010 19:39:14	0	0	0	0	0
6	SCI_NL__0PNPDE20100415_193737_000042412088_00343_42481_1271.N1	15APR2010 19:37:37	15APR2010 20:48:18	0	0	0	0	0
7	SCI_NL__0PNPDE20100415_204734_000064192088_00343_42481_1272.N1	15APR2010 20:47:34	15APR2010 22:34:33	0	0	0	0	0
8	SCI_NL__0PNPDE20100415_223305_000061232088_00344_42482_1273.N1	15APR2010 22:33:05	16APR2010 00:15:08	0	0	0	0	0

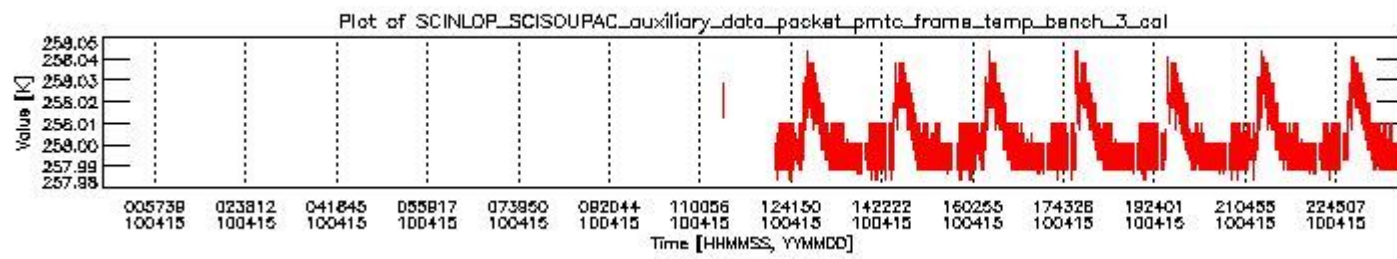
## 0.2 Product Quality Indicators

This section shows information about product quality, currently temperatures.

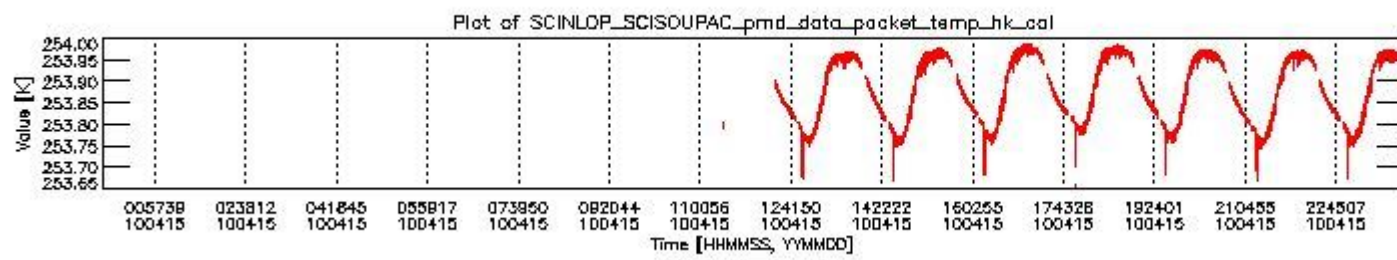




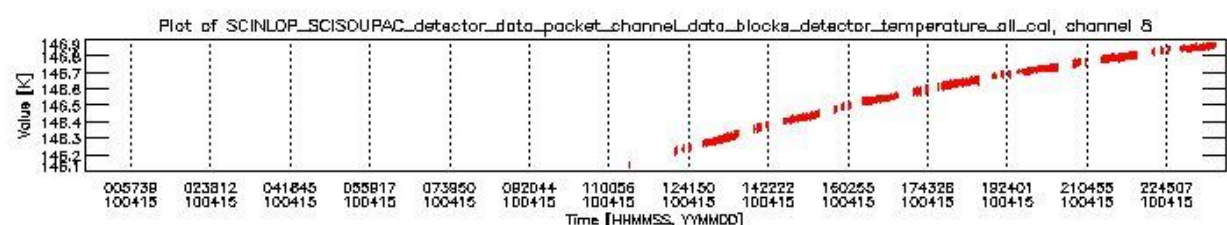
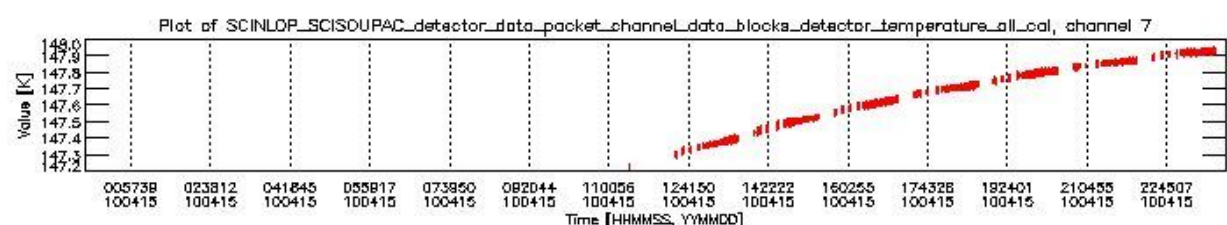
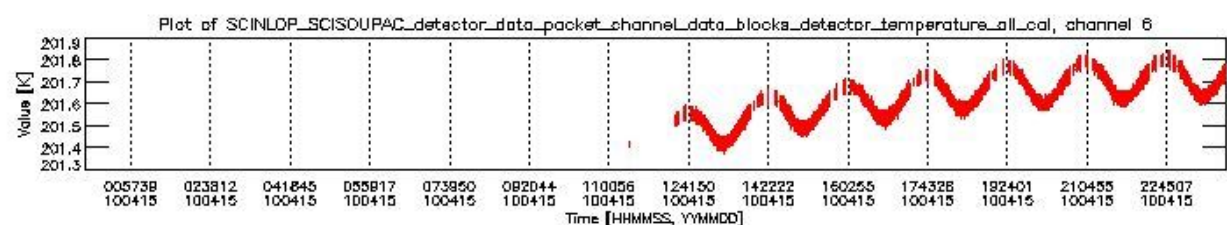
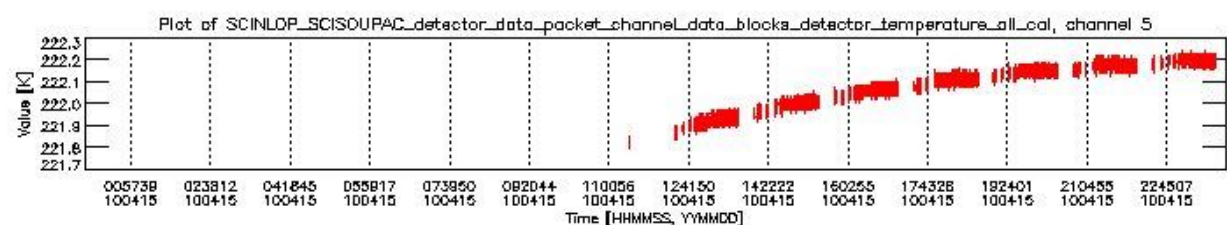
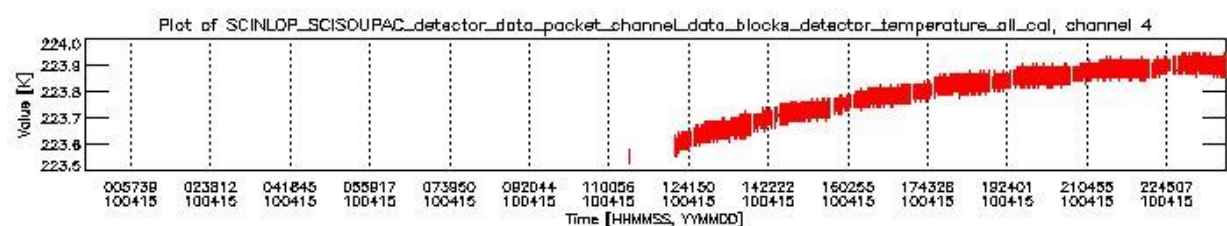
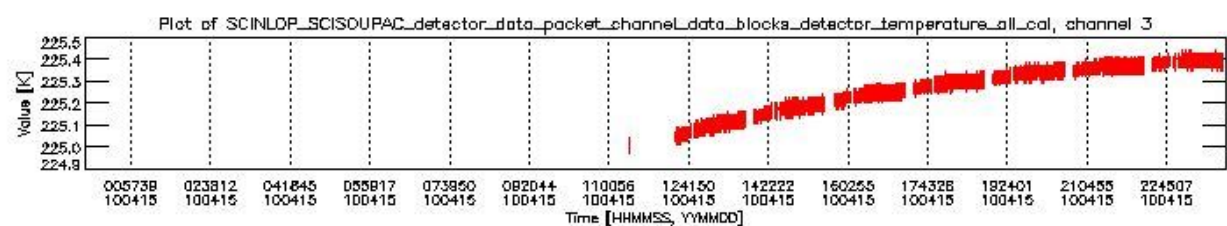
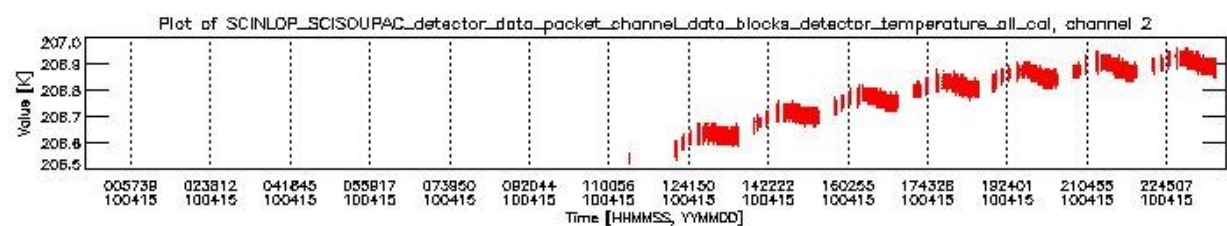
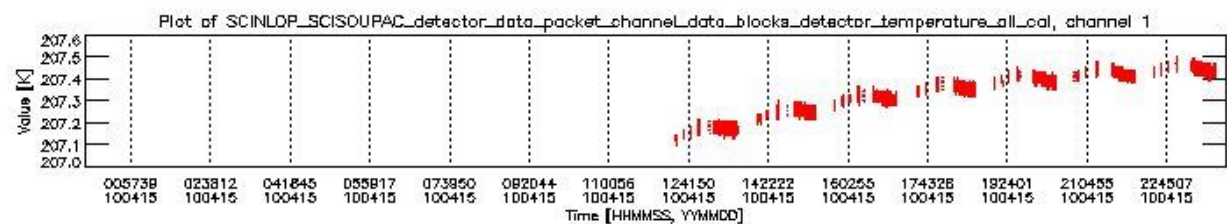
sciamachy\_daily\_report\_level0\_Any\_version\_20100415\_1.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100415\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100415\_3.PNG

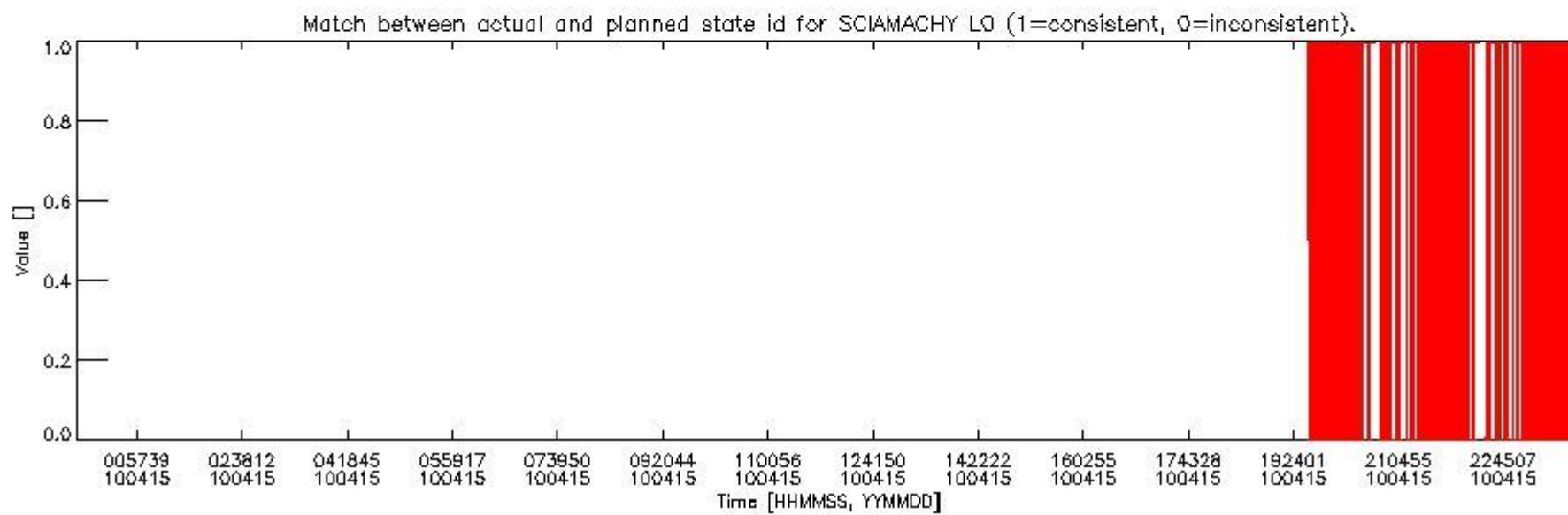
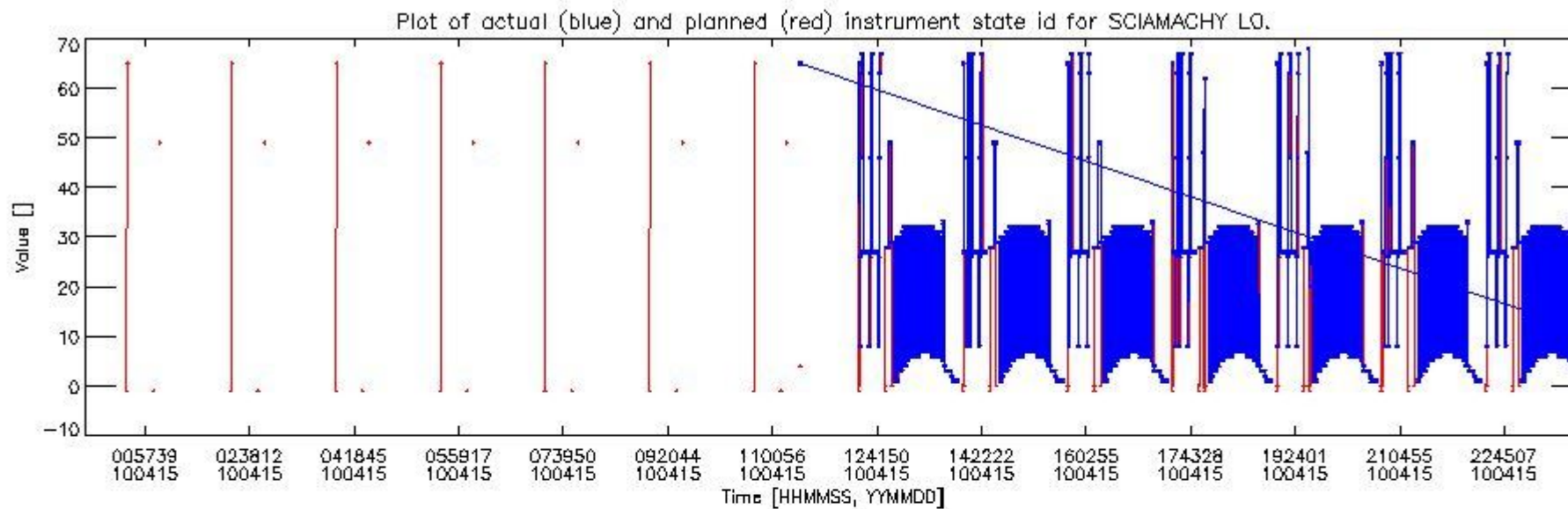


### 0.3 State monitoring

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: **21117**

#	Actual time	Actual value	Planned time	Planned value
0	15APR2010 19:38:18.355108	29	15APR2010 19:38:18.355108	20
1	15APR2010 19:38:18.980108	29	15APR2010 19:38:18.980108	20
2	15APR2010 19:38:19.355108	29	15APR2010 19:38:19.355108	20
3	15APR2010 19:38:19.730108	29	15APR2010 19:38:19.730108	20
4	15APR2010 19:38:20.292608	29	15APR2010 19:38:20.292608	20
5	15APR2010 19:38:20.667608	29	15APR2010 19:38:20.667608	20
6	15APR2010 19:38:21.042608	29	15APR2010 19:38:21.042608	20
7	15APR2010 19:38:21.417608	29	15APR2010 19:38:21.417608	20
8	15APR2010 19:38:21.980108	29	15APR2010 19:38:21.980108	0
9	15APR2010 19:38:22.355108	29	15APR2010 19:38:22.355108	0
10	15APR2010 19:38:22.730108	29	15APR2010 19:38:22.730108	0
11	15APR2010 19:38:23.105108	29	15APR2010 19:38:23.105108	0
12	15APR2010 19:38:23.355108	29	15APR2010 19:38:23.355108	0
13	15APR2010 19:38:23.667608	29	15APR2010 19:38:23.667608	0
14	15APR2010 19:38:24.042608	29	15APR2010 19:38:24.042608	0
15	15APR2010 19:38:24.417608	29	15APR2010 19:38:24.417608	0
16	15APR2010 19:38:24.792608	29	15APR2010 19:38:24.792608	0
17	15APR2010 19:38:25.355108	29	15APR2010 19:38:25.355108	0
18	15APR2010 19:38:25.730108	29	15APR2010 19:38:25.730108	0
19	15APR2010 19:38:26.105108	29	15APR2010 19:38:26.105108	0
...	...	...	...	...

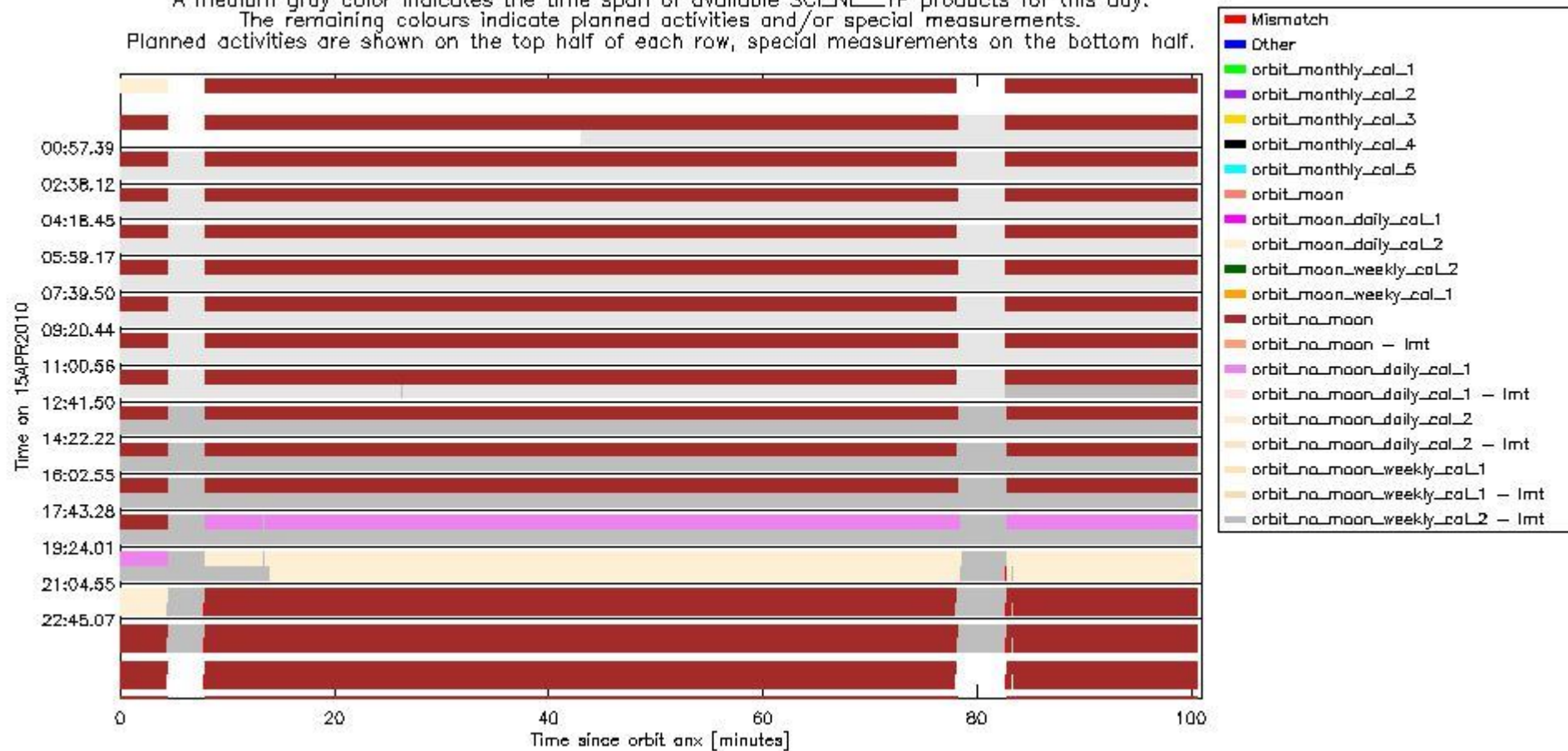


sciamachy\_daily\_report\_level0\_Any\_version\_20100415\_5.PNG

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 15APR2010.  
 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\_Any\_version\_20100415\_6.PNG

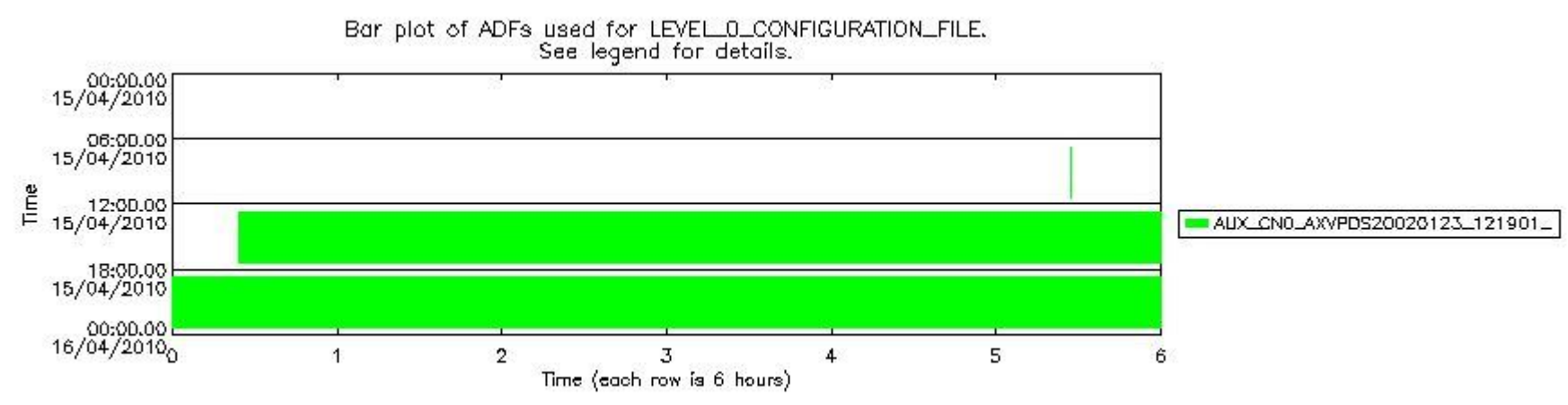
## 0.4 ADF monitoring

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

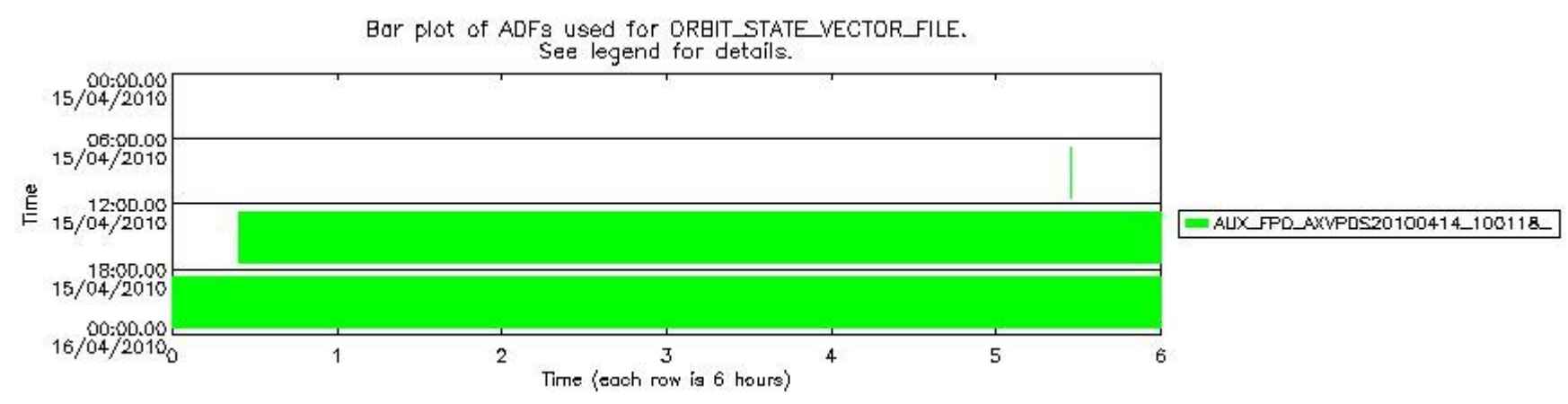
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

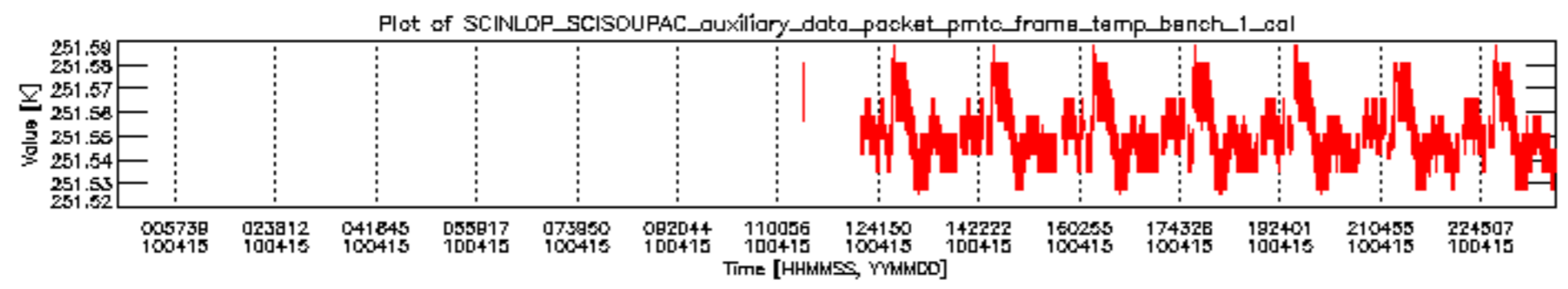
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20100414_100118_20100413_184646_20100423_201258



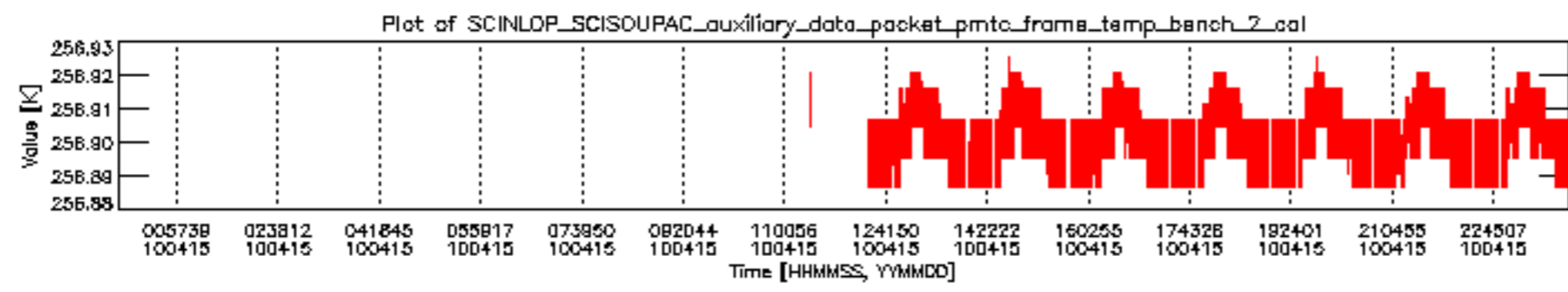
sciamachy\_daily\_report\_level0\_Any\_version\_20100415\_7.PNG

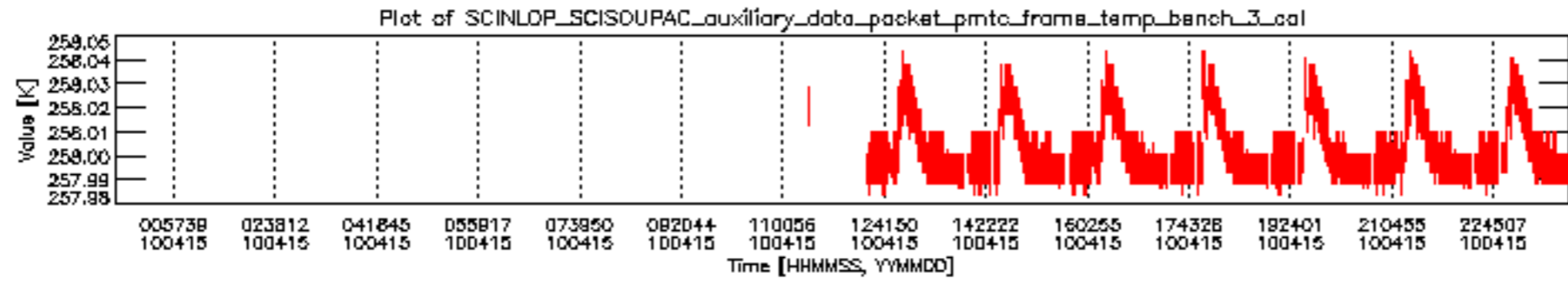


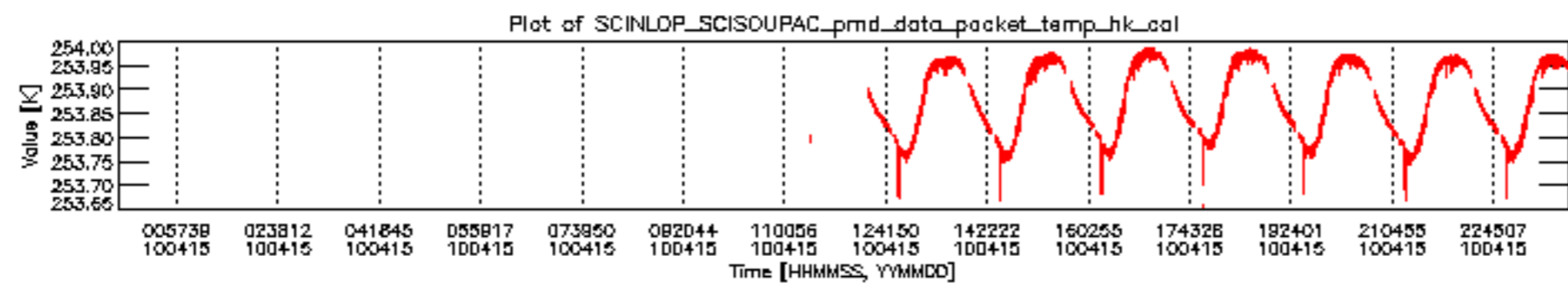
sciamachy\_daily\_report\_level0\_Any\_version\_20100415\_8.PNG

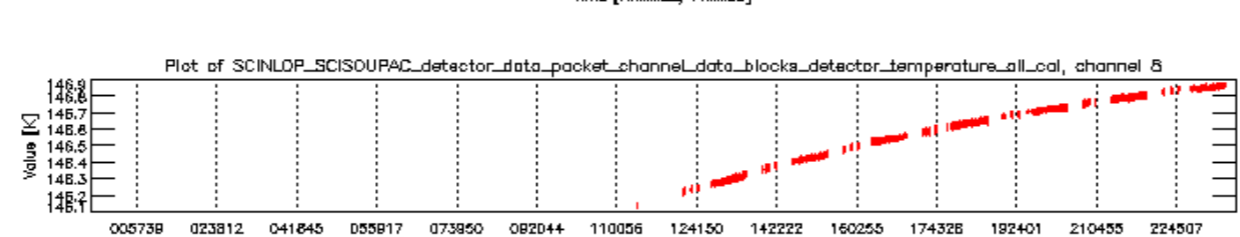
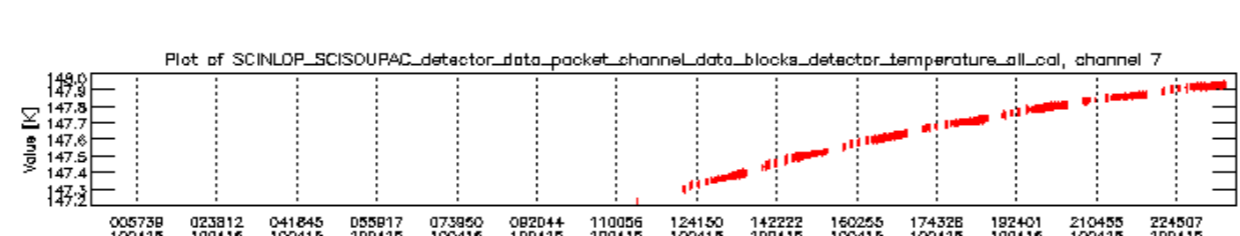
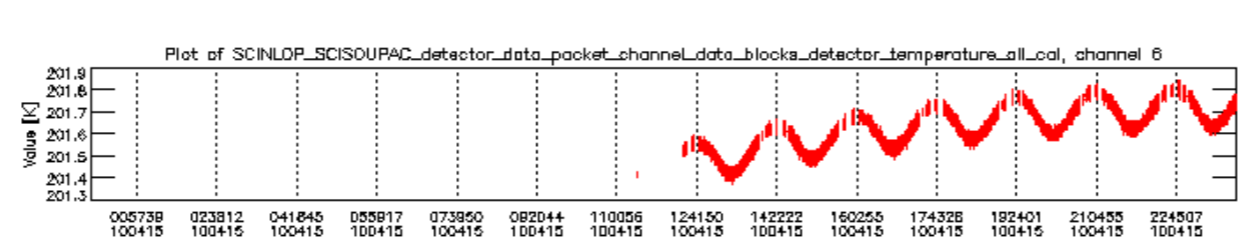
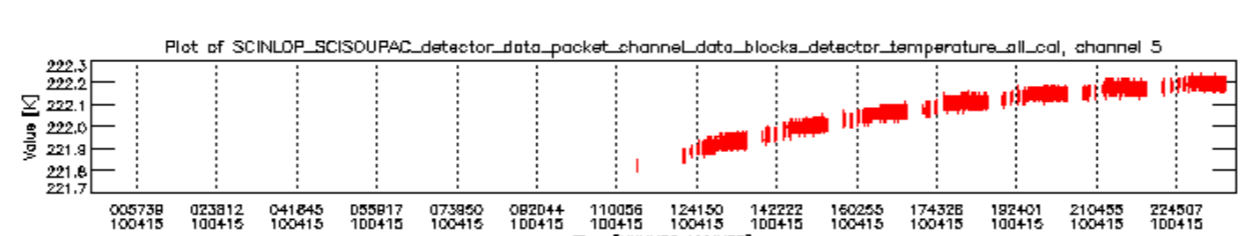
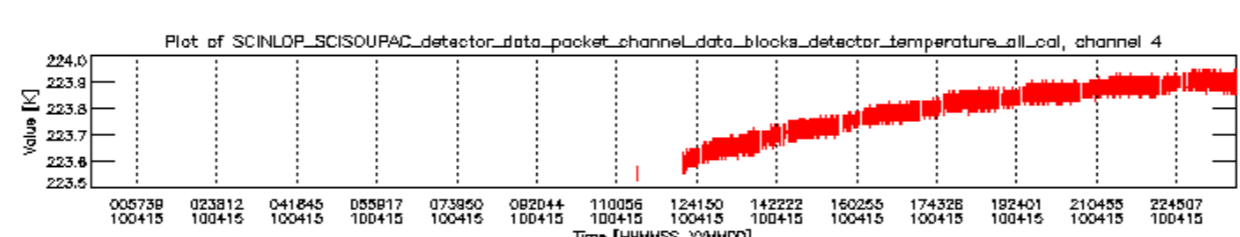
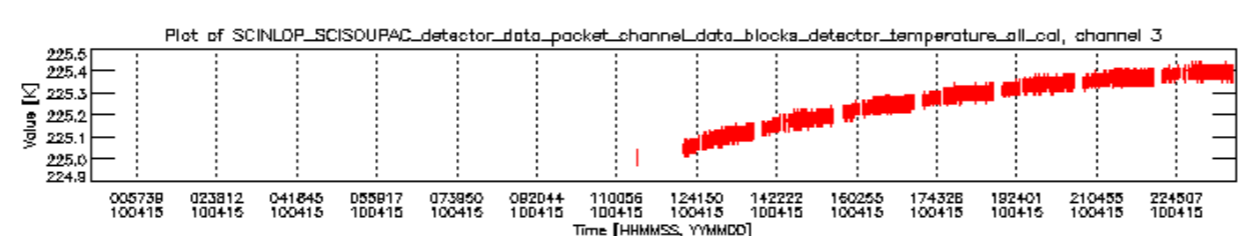
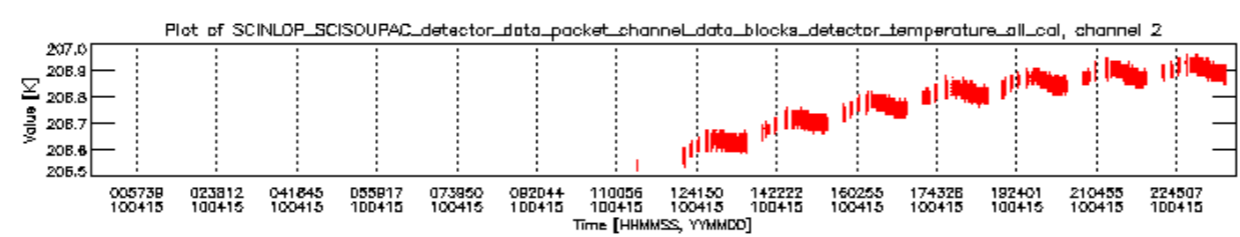
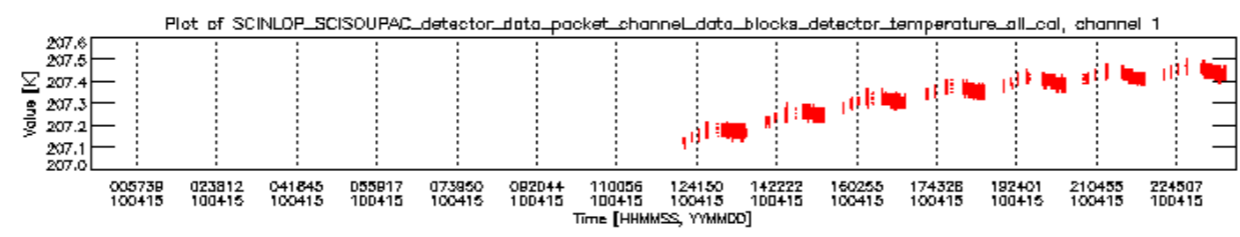


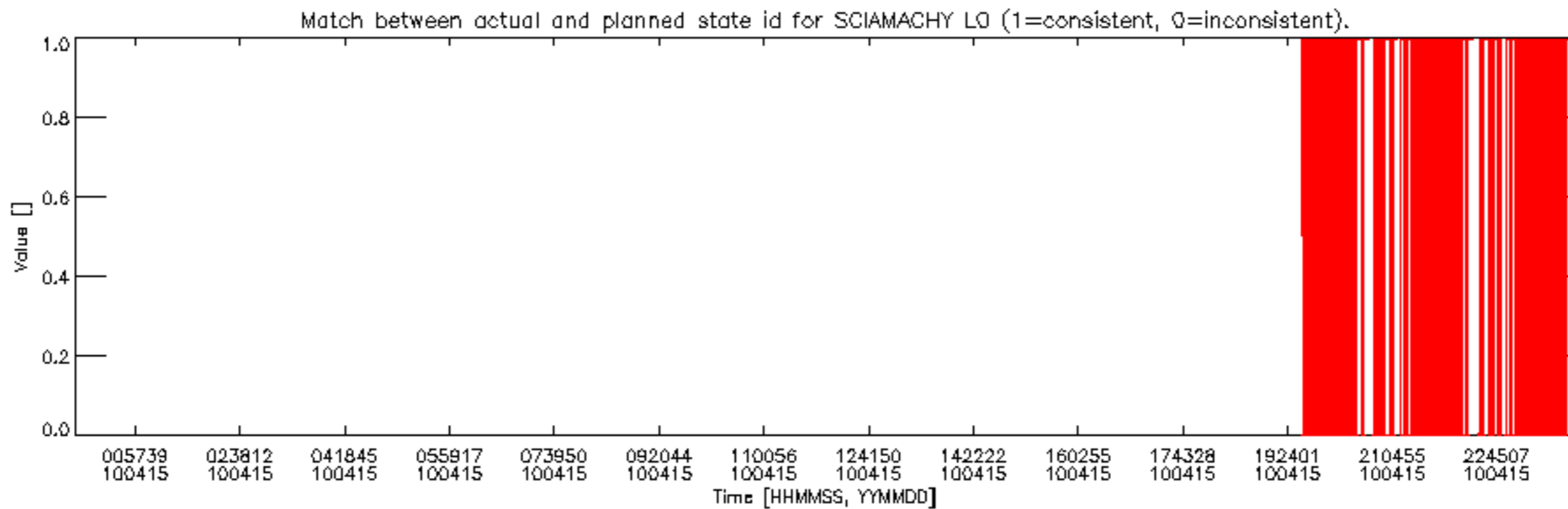
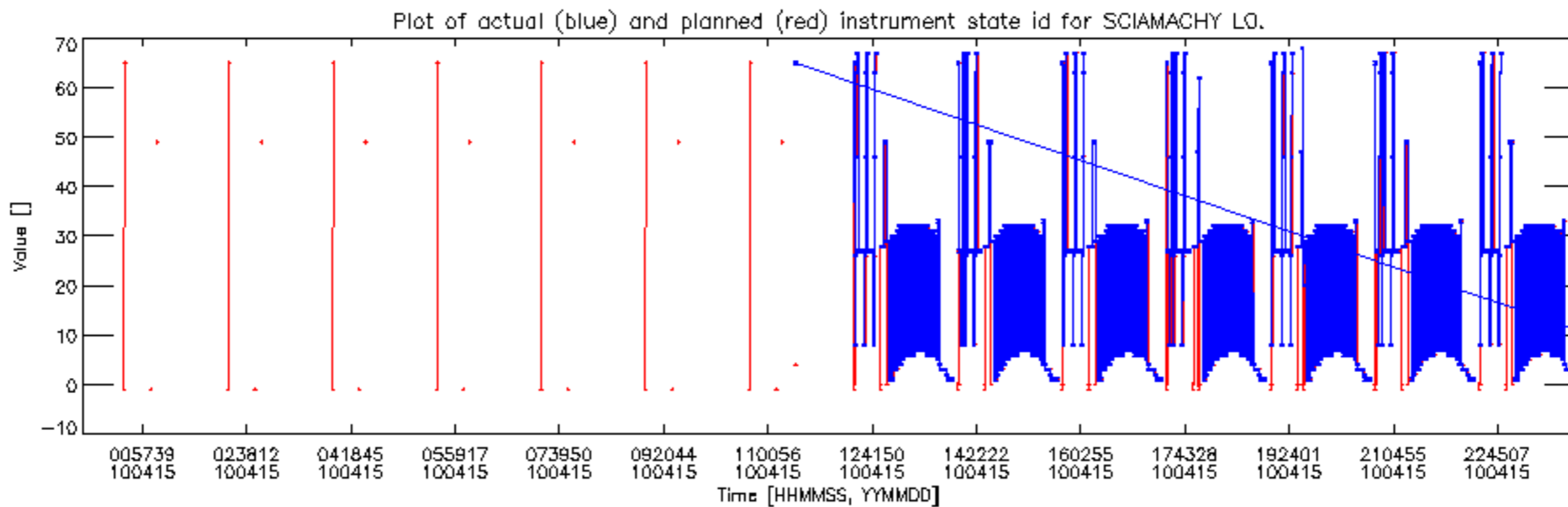












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 15APR2010.  
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