

## 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	24FEB2011 03:00:22
Data source version	KSPT_L0/4504-N
Processing scope for products	17FEB2011 00:00:00 to 18FEB2011 00:00:00
Start time of first product within scope	17FEB2011 01:04:03
Stop time of last product within scope	18FEB2011 00:20:47
Total number of Level 0 products	14
Number of Level 0 products with errors	0

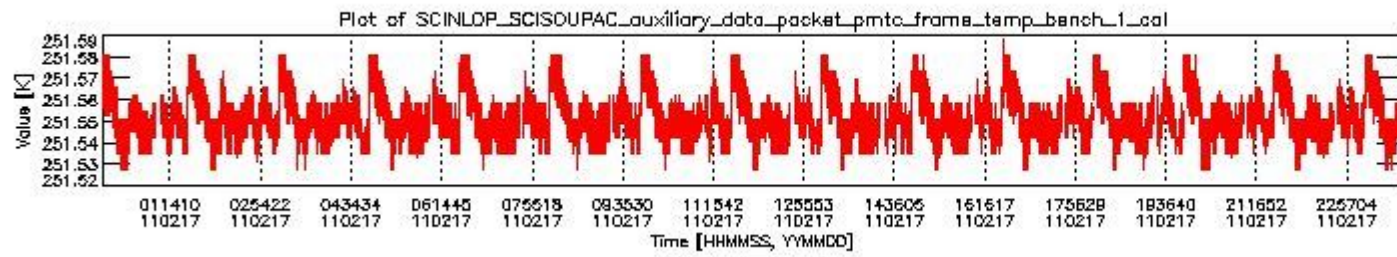
### 0.1.2 Summary per product

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

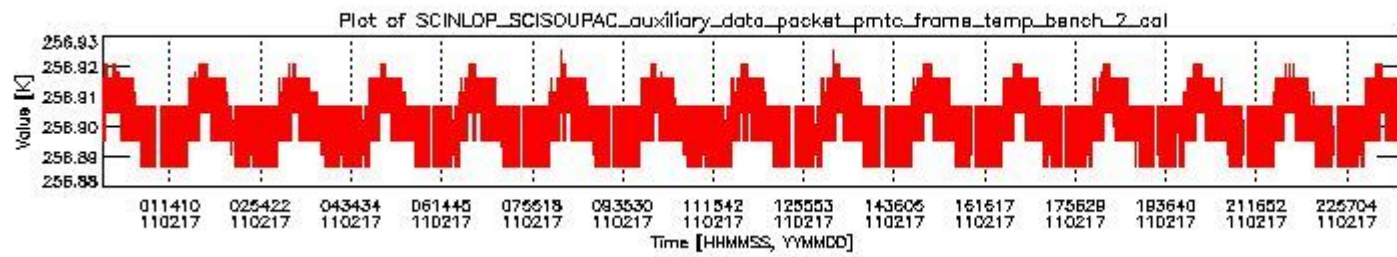
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110217_010403_000101373099_00318_46884_2578.N1	17FEB2011 01:04:03	17FEB2011 03:53:00	0	0	0	0	0
1	SCI_NL__OPNPDE20110217_035300_000062053099_00320_46886_2579.N1	17FEB2011 03:53:00	17FEB2011 05:36:25	0	0	0	0	0
2	SCI_NL__OPNPDE20110217_053516_000060143099_00321_46887_2580.N1	17FEB2011 05:35:16	17FEB2011 07:15:30	0	0	0	0	0
3	SCI_NL__OPNPDK20110217_071530_000040503099_00322_46888_3857.N1	17FEB2011 07:15:30	17FEB2011 08:23:00	0	0	0	0	0
4	SCI_NL__OPNPDK20110217_082300_000060133099_00323_46889_3858.N1	17FEB2011 08:23:00	17FEB2011 10:03:13	0	0	0	0	0
5	SCI_NL__OPNPDK20110217_100110_000060133099_00324_46890_3859.N1	17FEB2011 10:01:10	17FEB2011 11:41:24	0	0	0	0	0
6	SCI_NL__OPNPDK20110217_113921_000060823099_00325_46891_3860.N1	17FEB2011 11:39:21	17FEB2011 13:20:43	0	0	0	0	0
7	SCI_NL__OPNPDK20110217_131949_000059453099_00326_46892_3861.N1	17FEB2011 13:19:49	17FEB2011 14:58:54	0	0	0	0	0
8	SCI_NL__OPNPDK20110217_145800_000057673099_00327_46893_3862.N1	17FEB2011 14:58:00	17FEB2011 16:34:07	0	0	0	0	0
9	SCI_NL__OPNPDK20110217_163407_000060143099_00328_46894_3863.N1	17FEB2011 16:34:07	17FEB2011 18:14:21	0	0	0	0	0
10	SCI_NL__OPNPDK20110217_181421_000058503099_00329_46895_3864.N1	17FEB2011 18:14:21	17FEB2011 19:51:51	0	0	0	0	0
11	SCI_NL__OPNPDE20110217_195056_000041863099_00330_46896_2581.N1	17FEB2011 19:50:56	17FEB2011 21:00:42	0	0	0	0	0
12	SCI_NL__OPNPDE20110217_205934_000064453099_00330_46896_2582.N1	17FEB2011 20:59:34	17FEB2011 22:46:59	0	0	0	0	0
13	SCI_NL__OPNPDE20110217_224659_000056293099_00331_46897_2583.N1	17FEB2011 22:46:59	18FEB2011 00:20:47	0	0	0	0	0

## 0.2 Product Quality Indicators

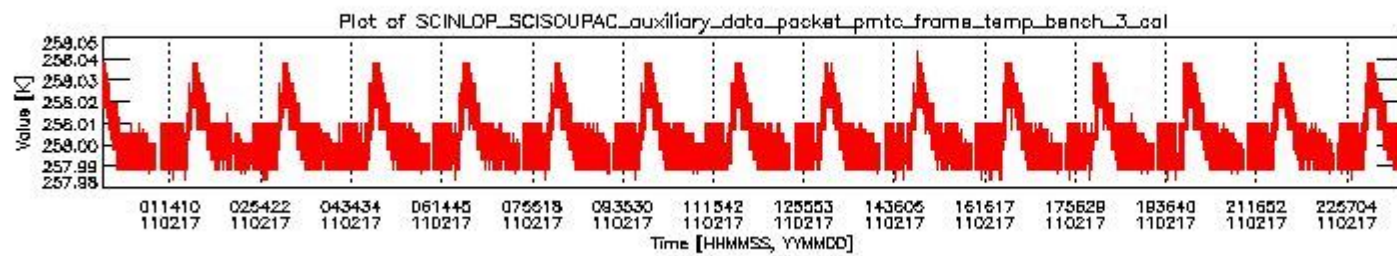
This section shows information about product quality, currently temperatures.



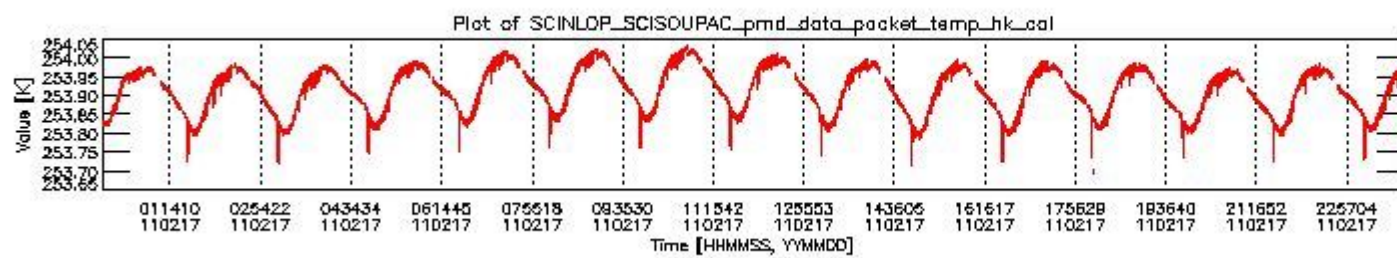
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110217\_0.PNG



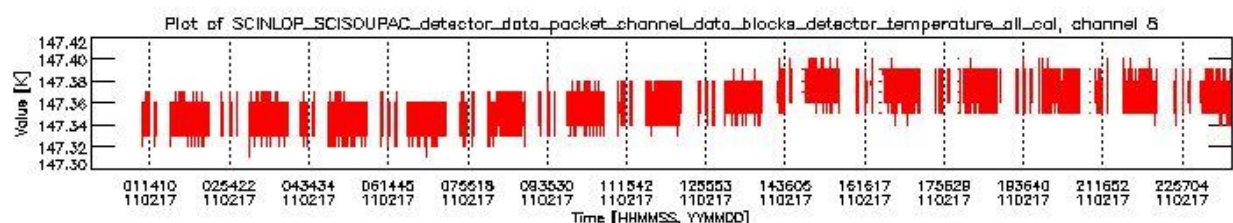
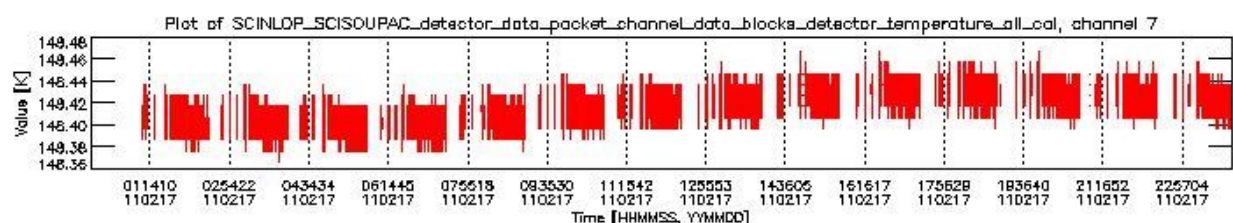
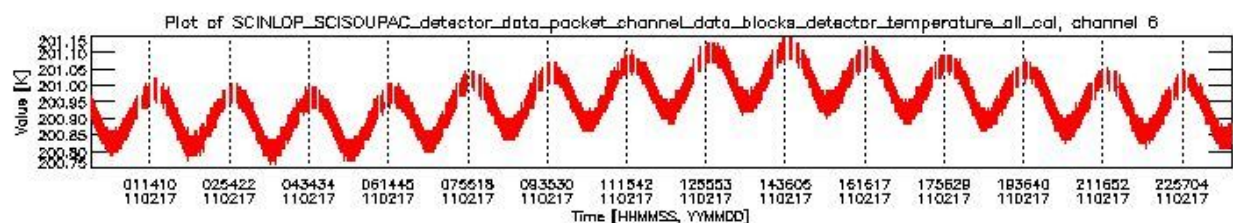
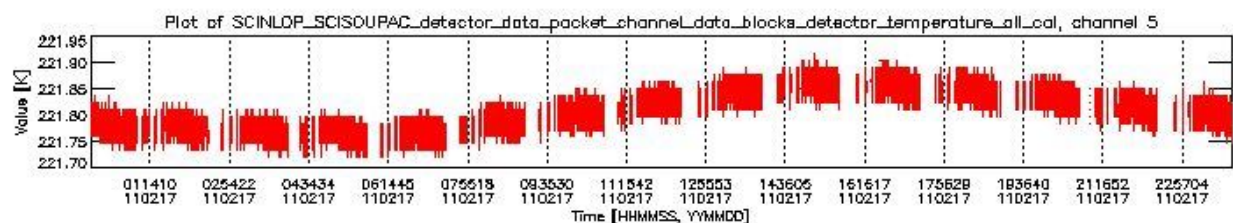
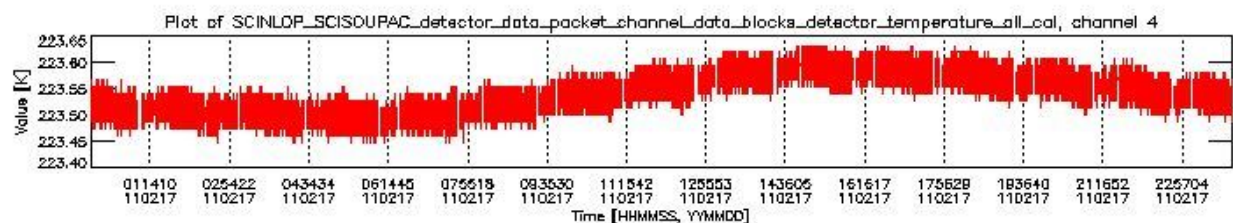
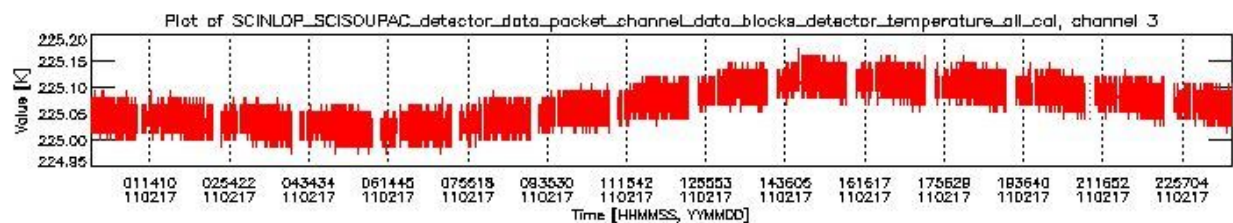
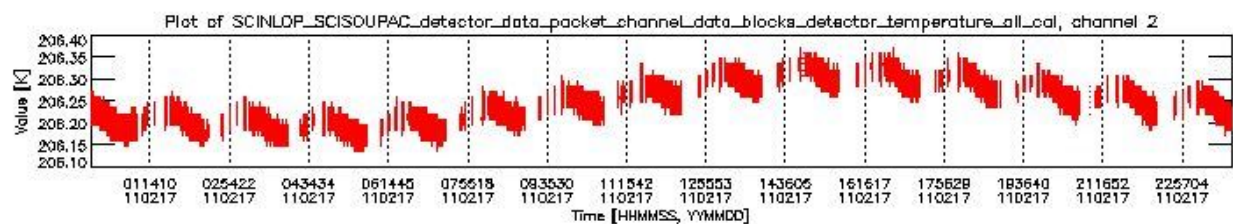
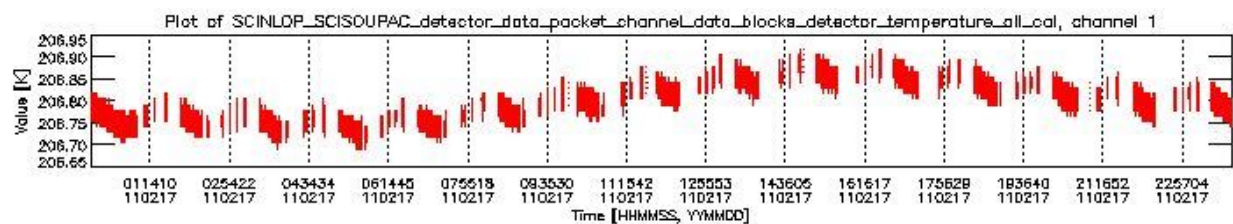
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110217\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110217\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110217\_3.PNG

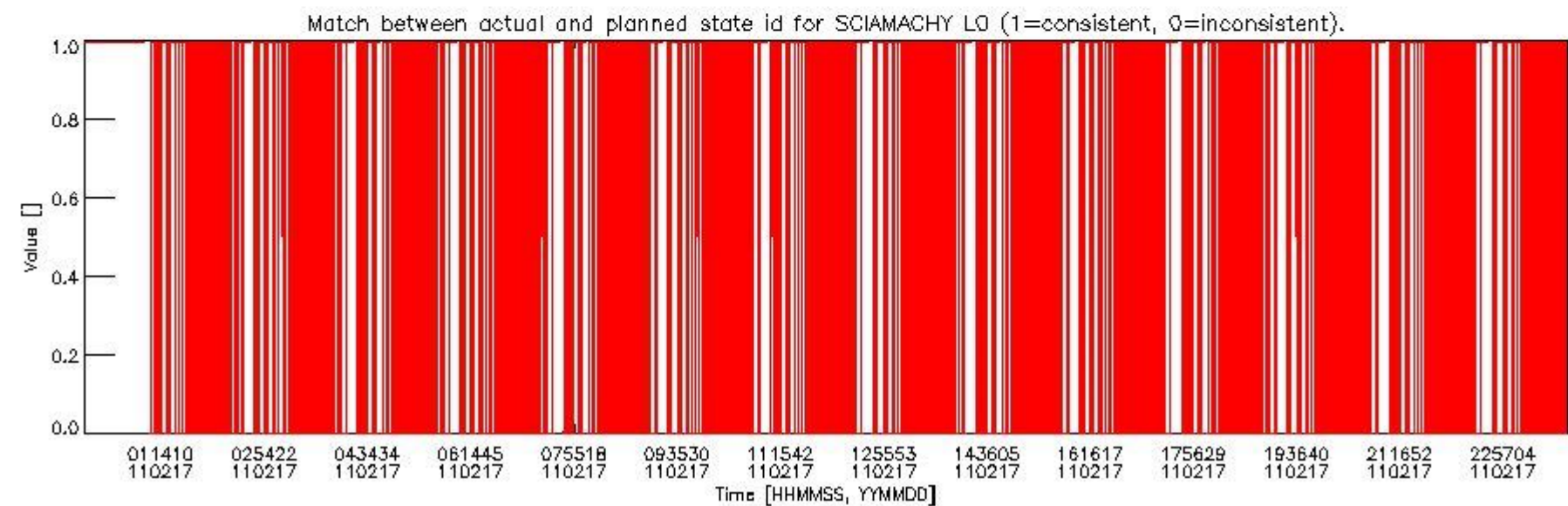
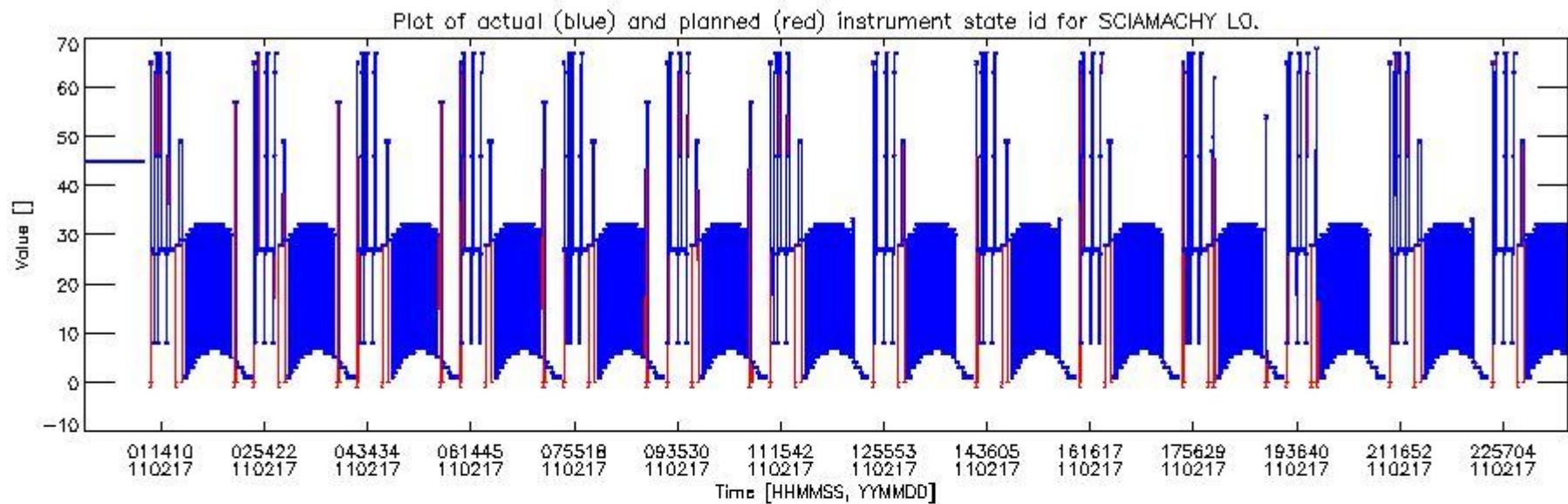


### 0.3 State monitoring

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: **32716**

#	Actual time	Actual value	Planned time	Planned value
0	17FEB2011 01:04:03.514019	65	17FEB2011 01:04:03.514019	0
1	17FEB2011 01:04:04.139019	65	17FEB2011 01:04:04.139019	0
2	17FEB2011 01:04:04.639019	65	17FEB2011 01:04:04.639019	0
3	17FEB2011 01:04:05.139019	65	17FEB2011 01:04:05.139019	0
4	17FEB2011 01:04:05.639019	65	17FEB2011 01:04:05.639019	0
5	17FEB2011 01:04:06.139019	65	17FEB2011 01:04:06.139019	0
6	17FEB2011 01:04:06.639019	65	17FEB2011 01:04:06.639019	0
7	17FEB2011 01:04:07.139019	65	17FEB2011 01:04:07.139019	0
8	17FEB2011 01:04:07.639019	65	17FEB2011 01:04:07.639019	0
9	17FEB2011 01:04:08.139019	65	17FEB2011 01:04:08.139019	0
10	17FEB2011 01:04:08.514019	65	17FEB2011 01:04:08.514019	0
11	17FEB2011 01:04:08.639019	65	17FEB2011 01:04:08.639019	0
12	17FEB2011 01:04:47.275743	27	17FEB2011 01:04:47.275743	0
13	17FEB2011 01:04:48.275743	27	17FEB2011 01:04:48.275743	0
14	17FEB2011 01:04:49.213243	27	17FEB2011 01:04:49.213243	0
15	17FEB2011 01:04:49.963243	27	17FEB2011 01:04:49.963243	0
16	17FEB2011 01:04:50.900743	27	17FEB2011 01:04:50.900743	0
17	17FEB2011 01:04:51.650743	27	17FEB2011 01:04:51.650743	0
18	17FEB2011 01:04:52.275743	27	17FEB2011 01:04:52.275743	0
19	17FEB2011 01:04:52.588243	27	17FEB2011 01:04:52.588243	0
...	...	...	...	...

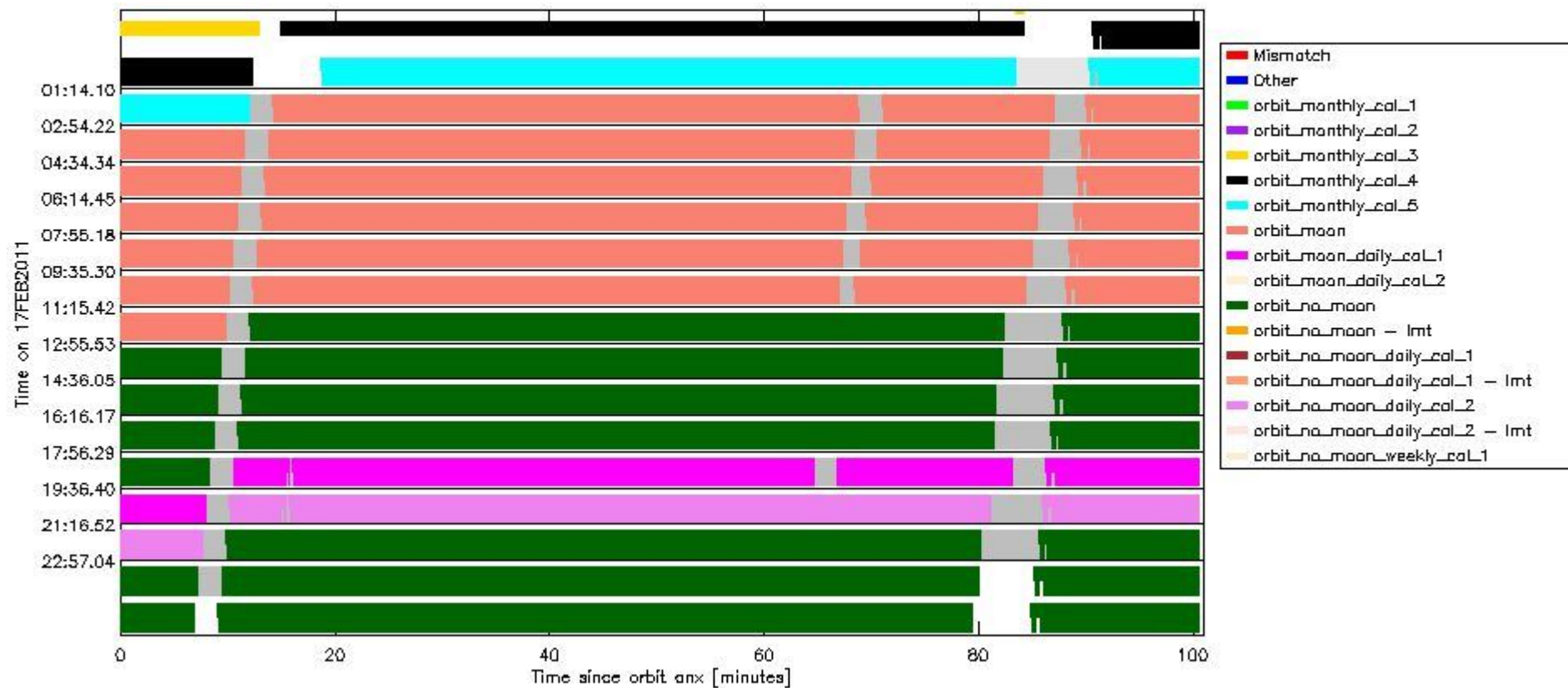


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110217\_5.PNG

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 17FEB2011.  
 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\_20110217\_6.PNG

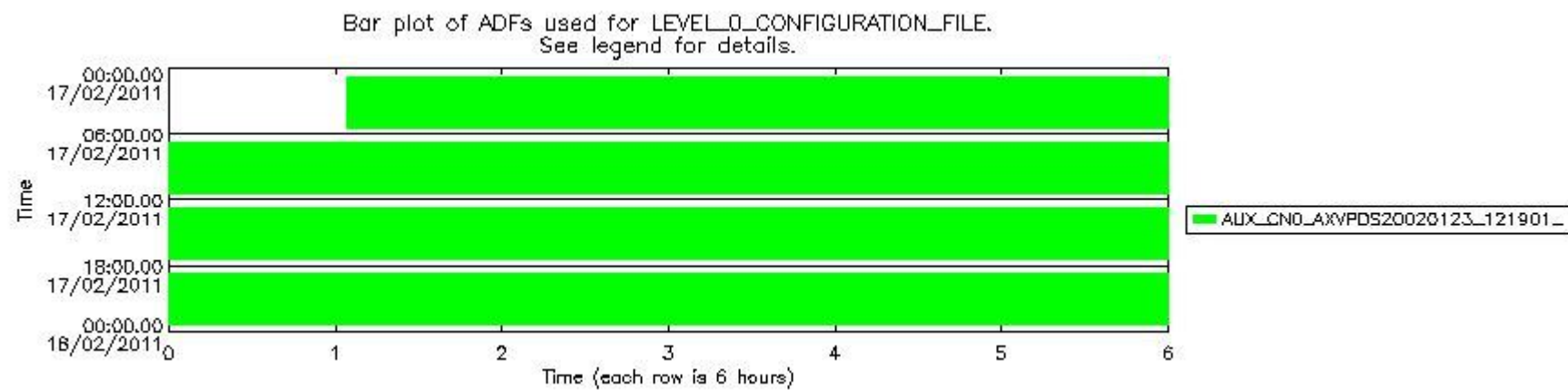
## 0.4 ADF monitoring

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

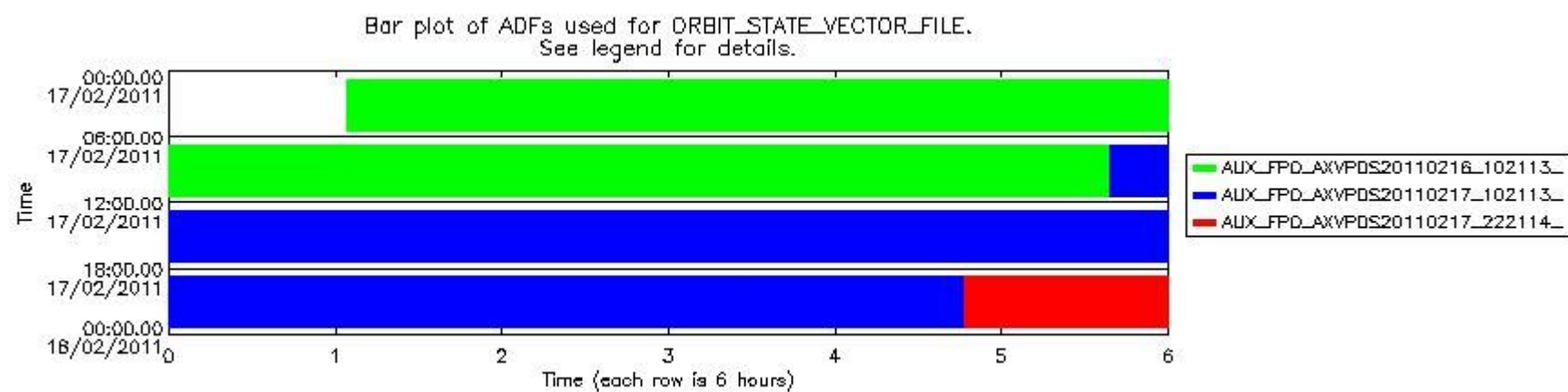
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

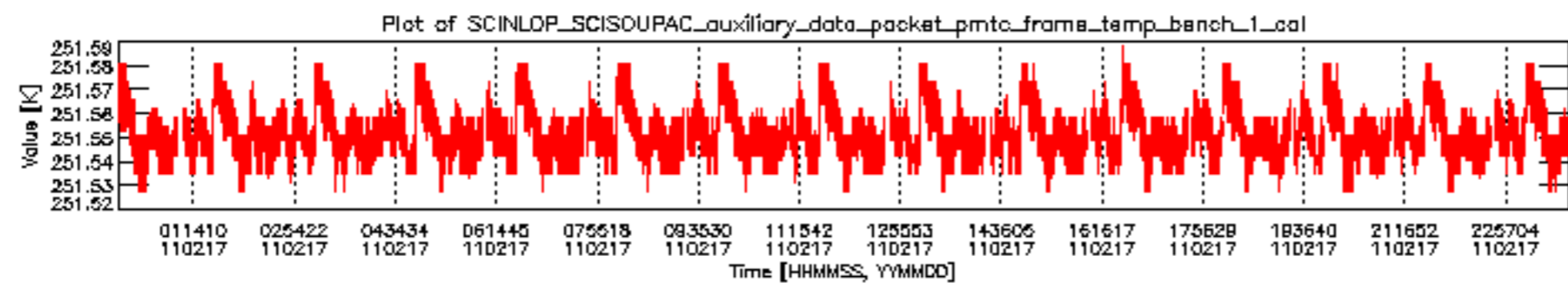
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110216_102113_20110215_190959_20110225_212349
2	AUX_FPO_AXVPDS20110217_102113_20110217_093521_20110227_114912
3	AUX_FPO_AXVPDS20110217_222114_20110217_193645_20110227_201022



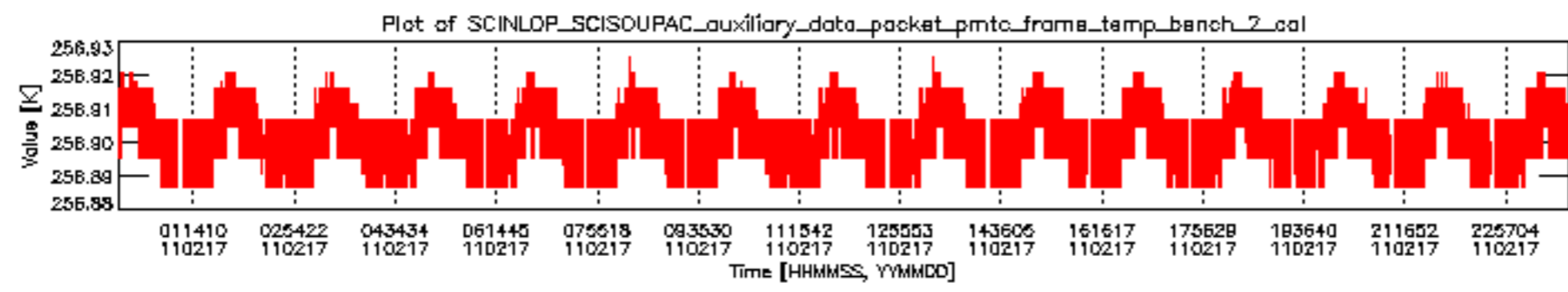
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110217\_7.PNG

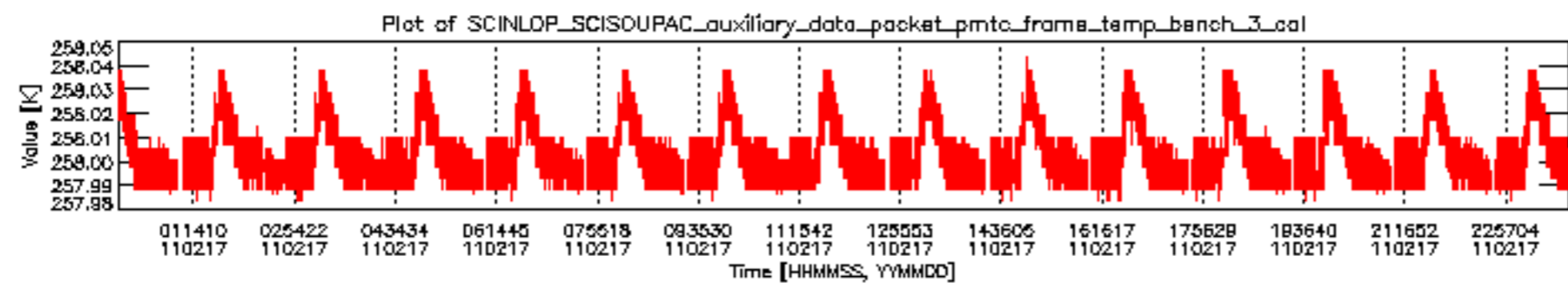


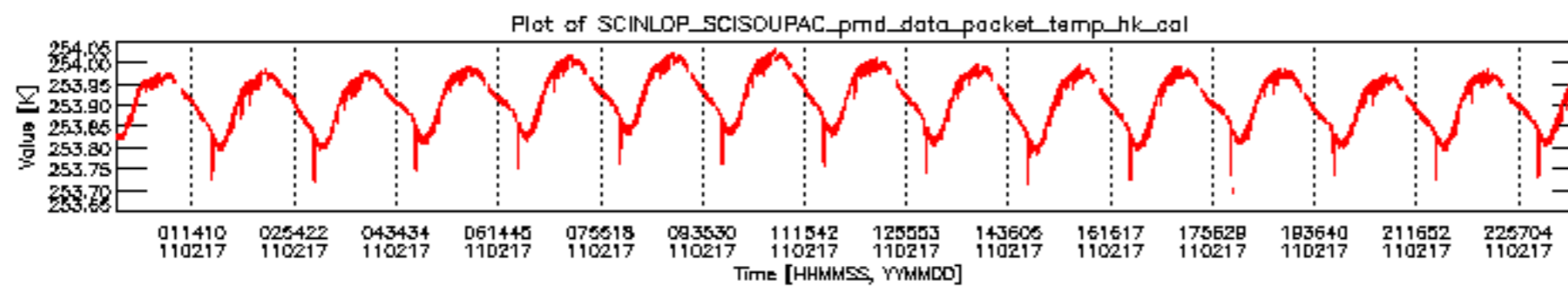
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110217\_8.PNG

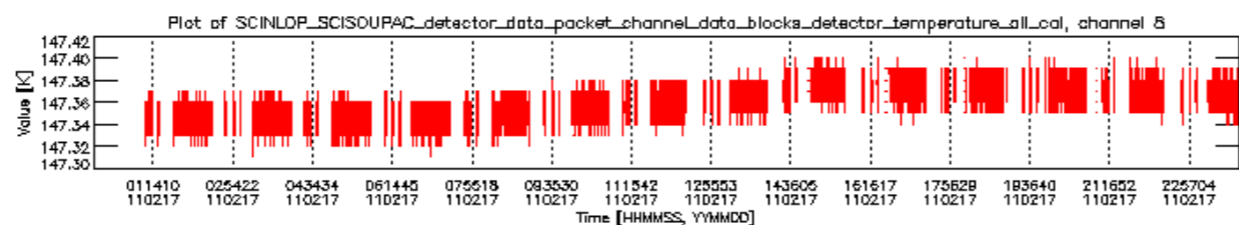
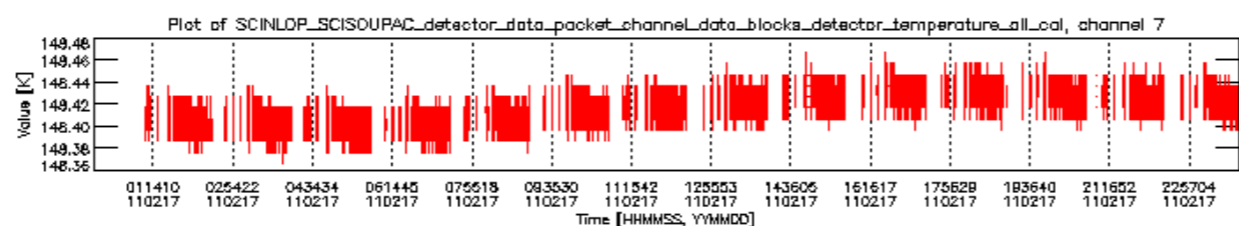
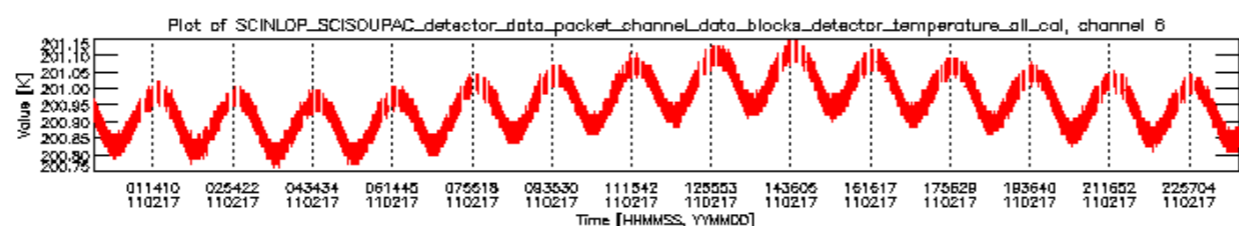
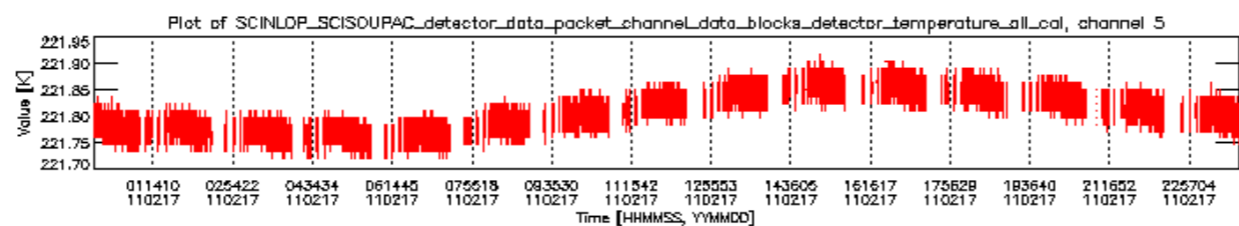
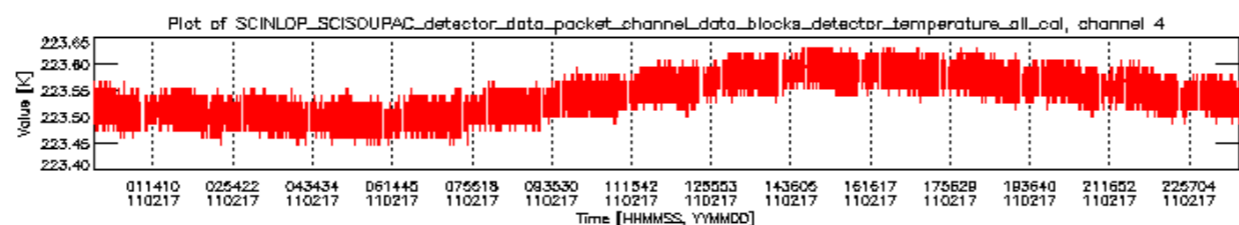
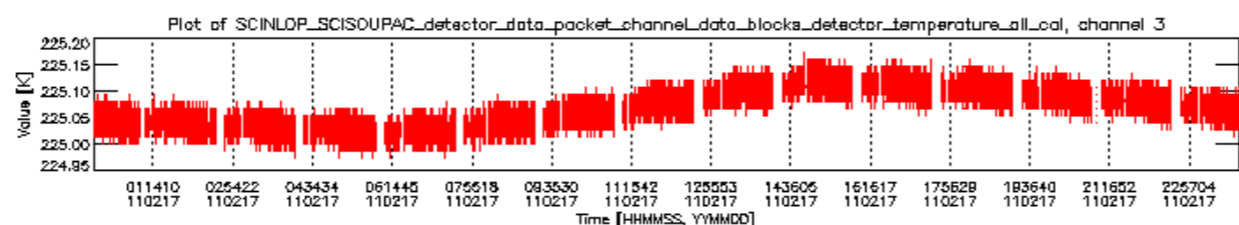
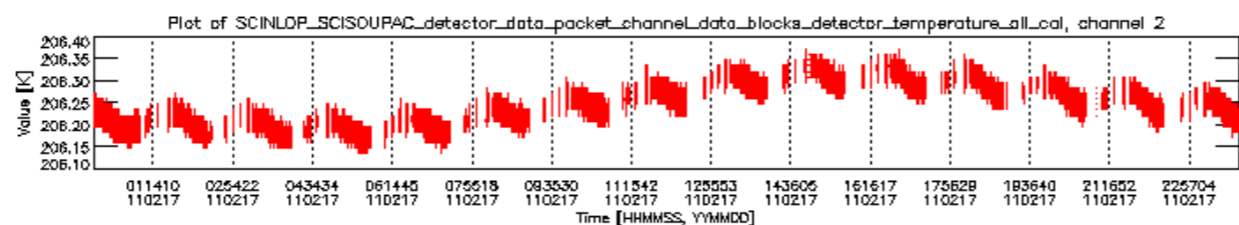
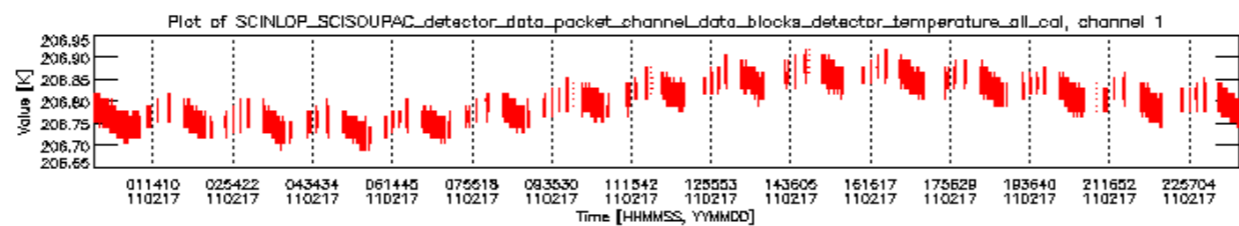


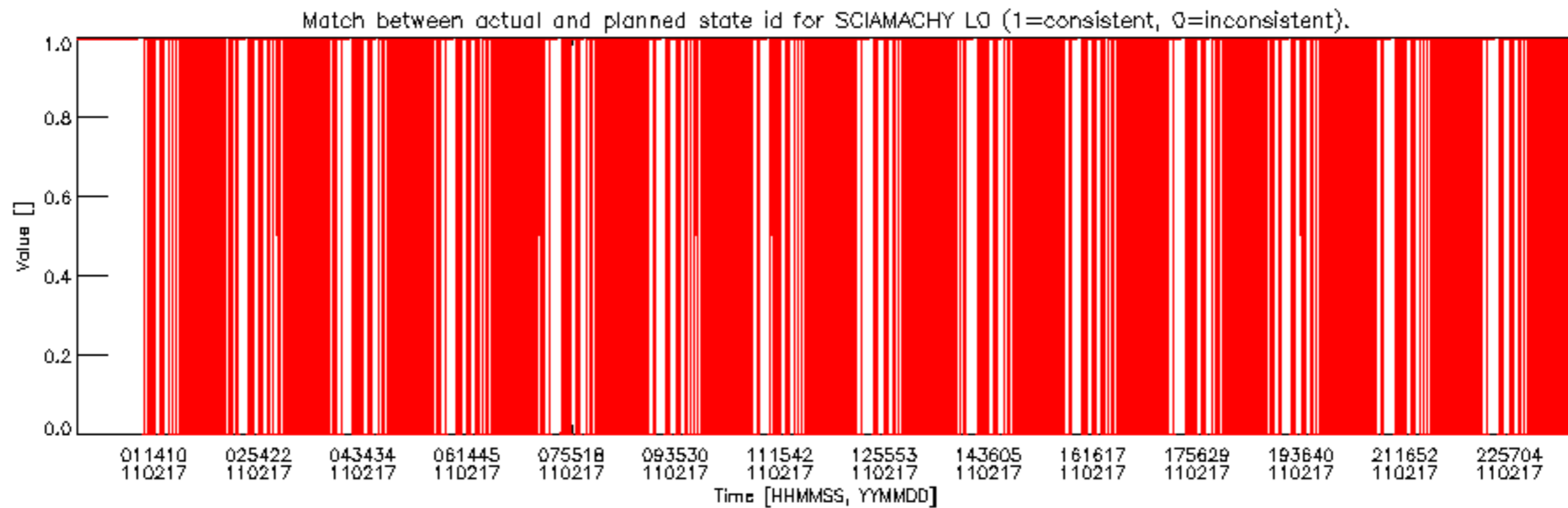
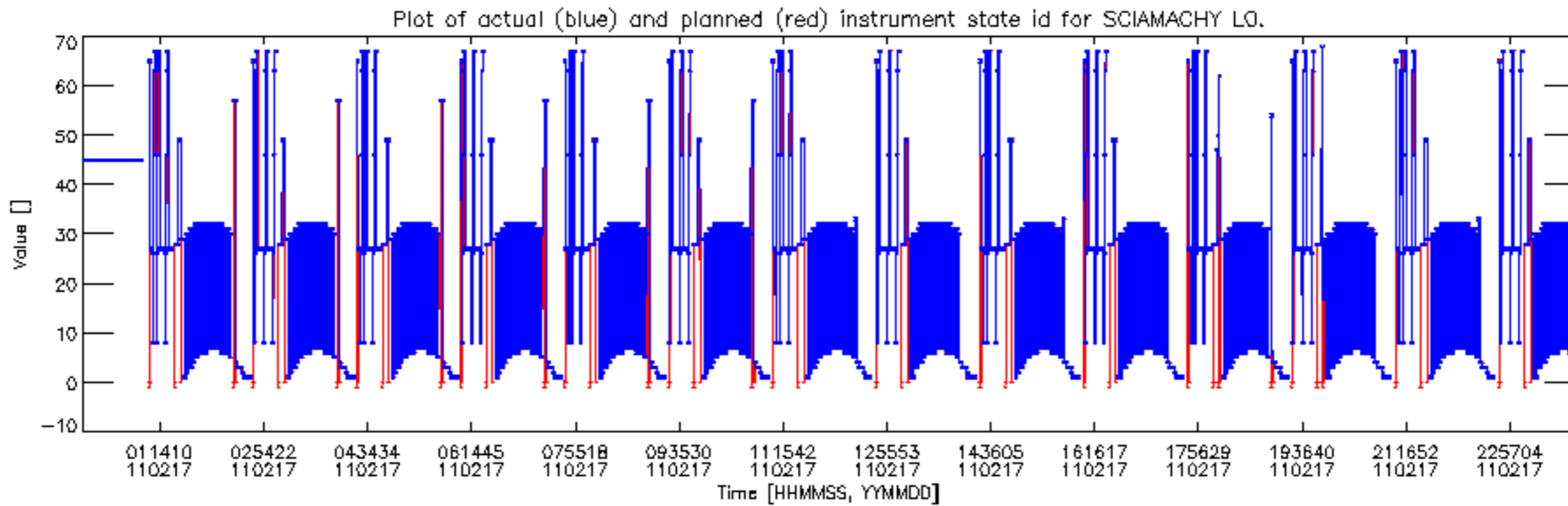




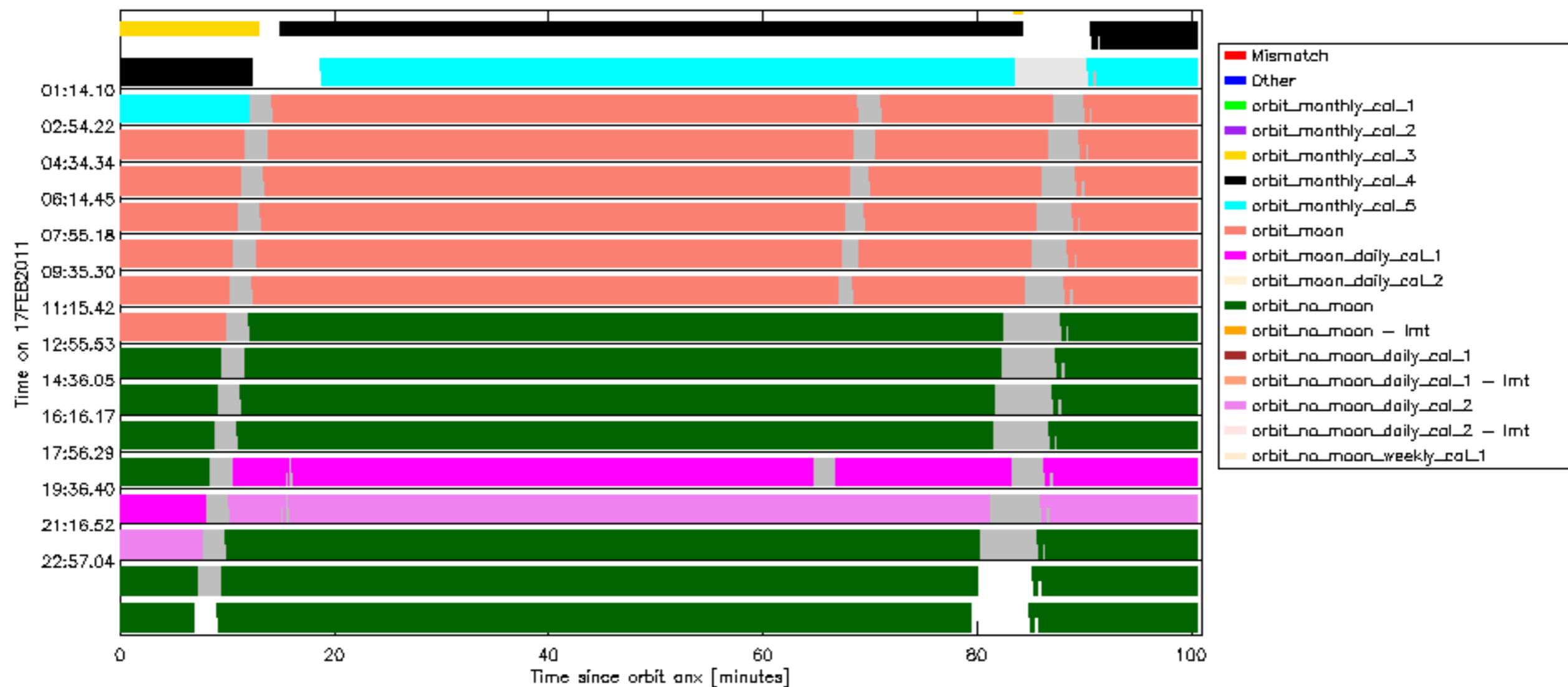


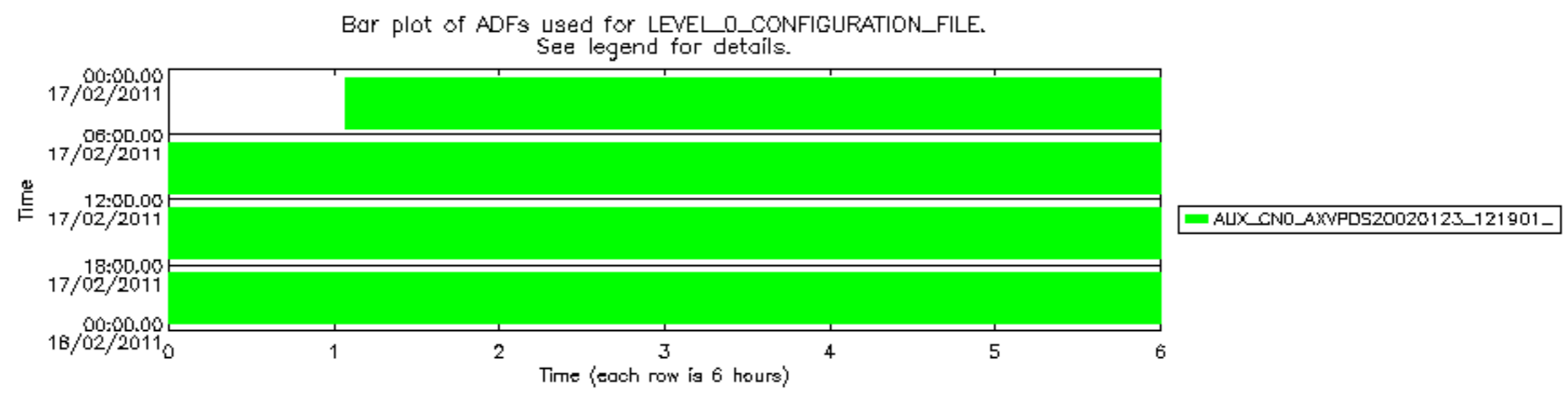






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 17FEB2011.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.





Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

