

## 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	07FEB2011 03:01:11
Data source version	KSPT_L0/4504-N
Processing scope for products	31JAN2011 00:00:00 to 01FEB2011 00:00:00
Start time of first product within scope	31JAN2011 01:22:13
Stop time of last product within scope	01FEB2011 00:45:24
Total number of Level 0 products	14
Number of Level 0 products with errors	0

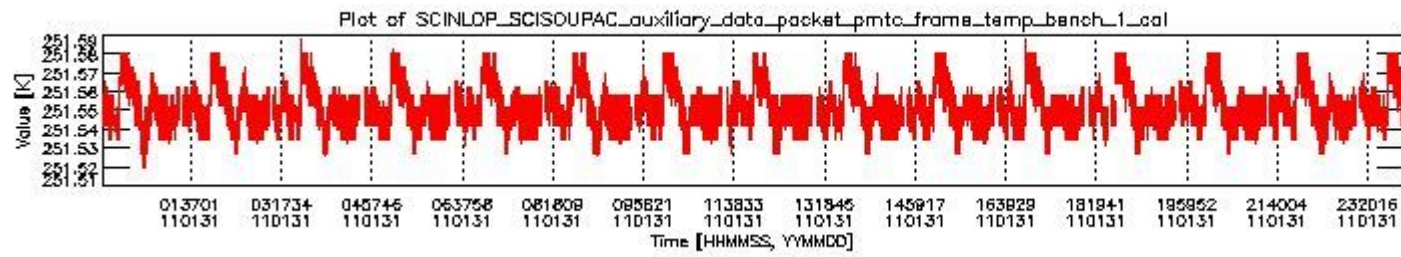
### 0.1.2 Summary per product

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

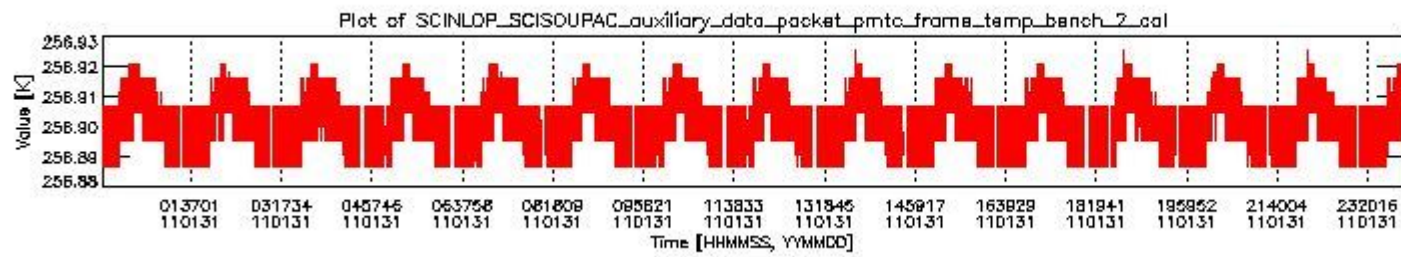
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110131_012213_000104143099_00074_46640_2469.N1	31JAN2011 01:22:13	31JAN2011 04:15:47	0	0	0	0	0
1	SCI_NL__OPNPDE20110131_041547_000061513099_00076_46642_2470.N1	31JAN2011 04:15:47	31JAN2011 05:58:18	0	0	0	0	0
2	SCI_NL__OPNPDK20110131_055709_000041043099_00077_46643_3706.N1	31JAN2011 05:57:09	31JAN2011 07:05:33	0	0	0	0	0
3	SCI_NL__OPNPDK20110131_070533_000061513099_00078_46644_3707.N1	31JAN2011 07:05:33	31JAN2011 08:48:04	0	0	0	0	0
4	SCI_NL__OPNPDK20110131_084655_000060143099_00079_46645_3708.N1	31JAN2011 08:46:55	31JAN2011 10:27:09	0	0	0	0	0
5	SCI_NL__OPNPDK20110131_102506_000059593099_00080_46646_3709.N1	31JAN2011 10:25:06	31JAN2011 12:04:26	0	0	0	0	0
6	SCI_NL__OPNPDK20110131_120317_000060683099_00081_46647_3710.N1	31JAN2011 12:03:17	31JAN2011 13:44:25	0	0	0	0	0
7	SCI_NL__OPNPDK20110131_134331_000057133099_00082_46648_3711.N1	31JAN2011 13:43:31	31JAN2011 15:18:44	0	0	0	0	0
8	SCI_NL__OPNPDK20110131_151844_000062063099_00083_46649_3712.N1	31JAN2011 15:18:44	31JAN2011 17:02:10	0	0	0	0	0
9	SCI_NL__OPNPDK20110131_165857_000059043099_00084_46650_3713.N1	31JAN2011 16:58:57	31JAN2011 18:37:22	0	0	0	0	0
10	SCI_NL__OPNPDK20110131_183628_000057793099_00085_46651_3714.N1	31JAN2011 18:36:28	31JAN2011 20:12:46	0	0	0	0	0
11	SCI_NL__OPNPDE20110131_201246_000043523099_00086_46652_2471.N1	31JAN2011 20:12:46	31JAN2011 21:25:19	0	0	0	0	0
12	SCI_NL__OPNPDE20110131_213136_000056283099_00086_46652_2472.N1	31JAN2011 21:31:36	31JAN2011 23:05:25	0	0	0	0	0
13	SCI_NL__OPNPDE20110131_231150_000056143099_00087_46653_2473.N1	31JAN2011 23:11:50	01FEB2011 00:45:24	0	0	0	0	0

## 0.2 Product Quality Indicators

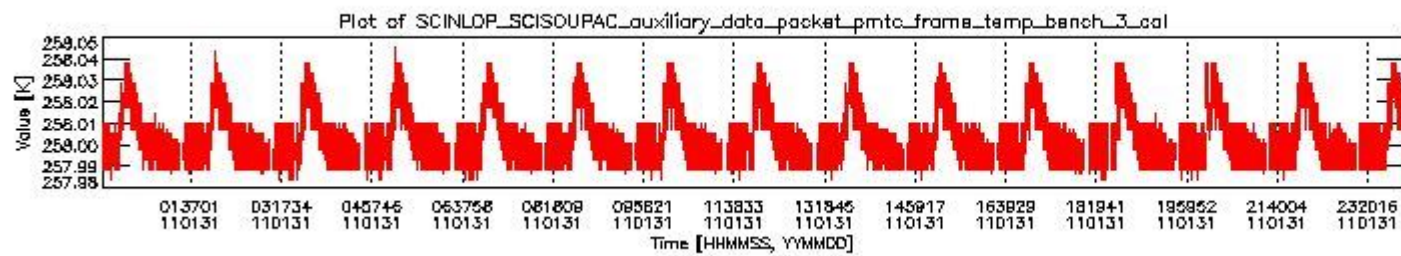
This section shows information about product quality, currently temperatures.



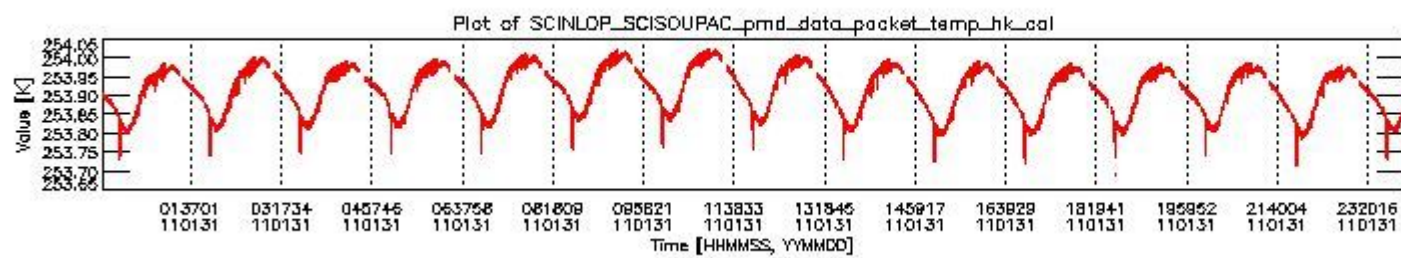
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110131\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110131\_1.PNG

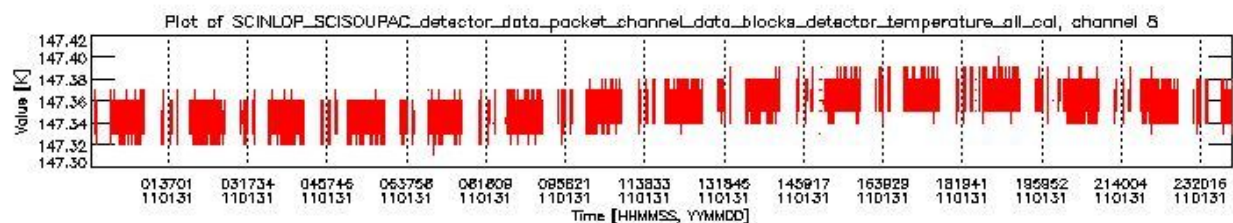
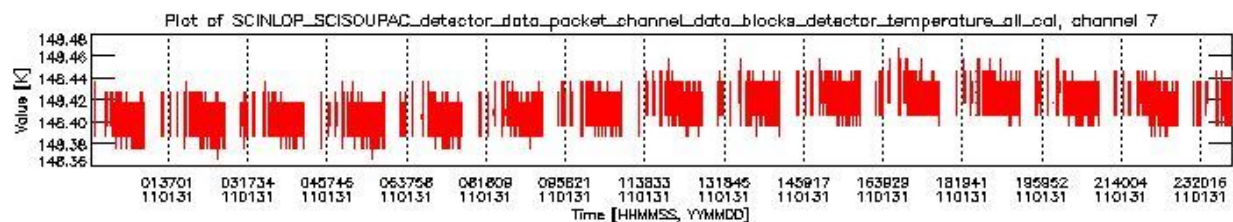
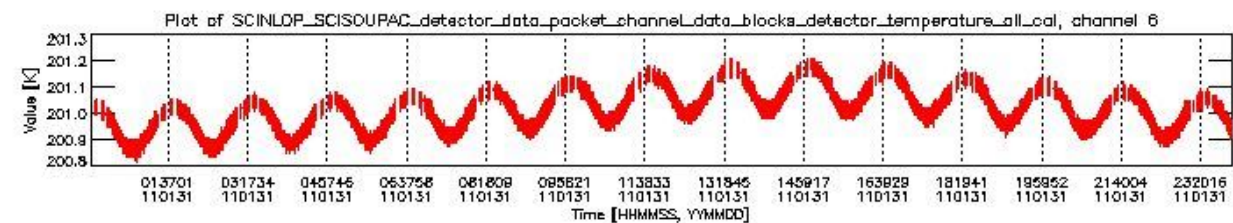
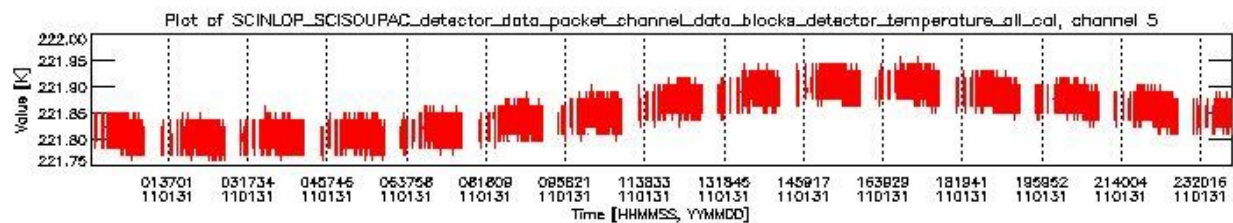
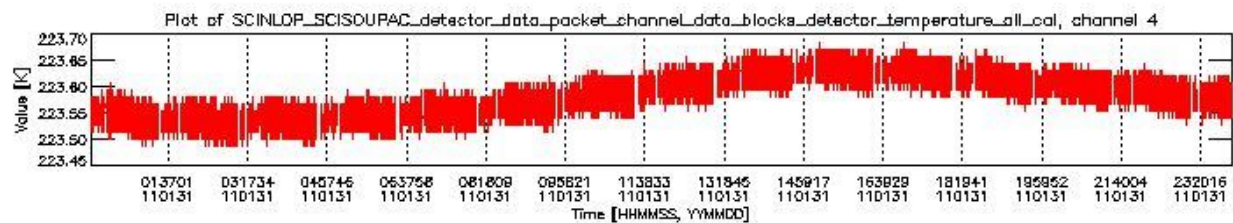
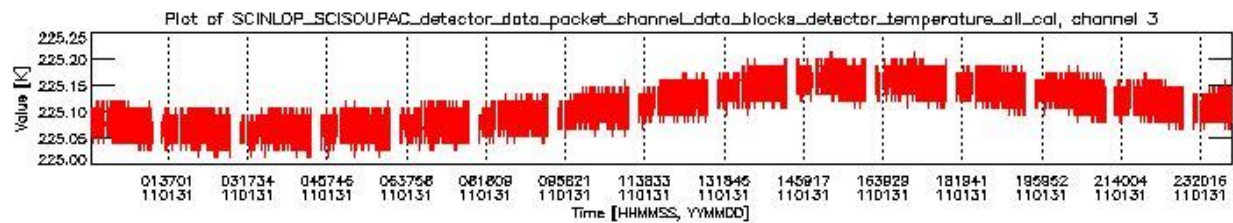
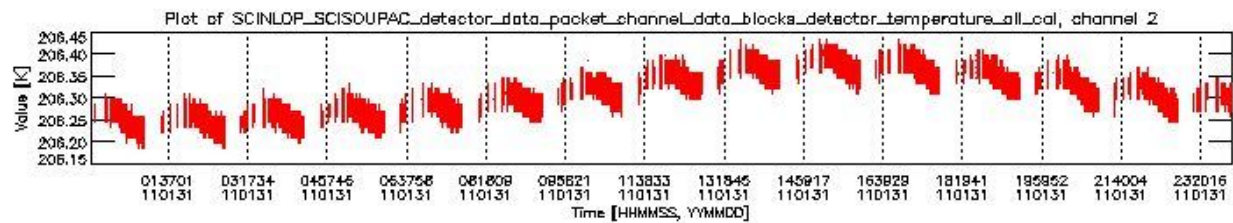
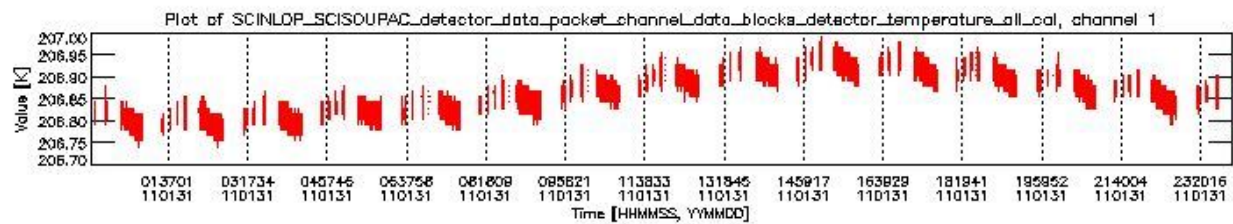


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110131\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110131\_3.PNG



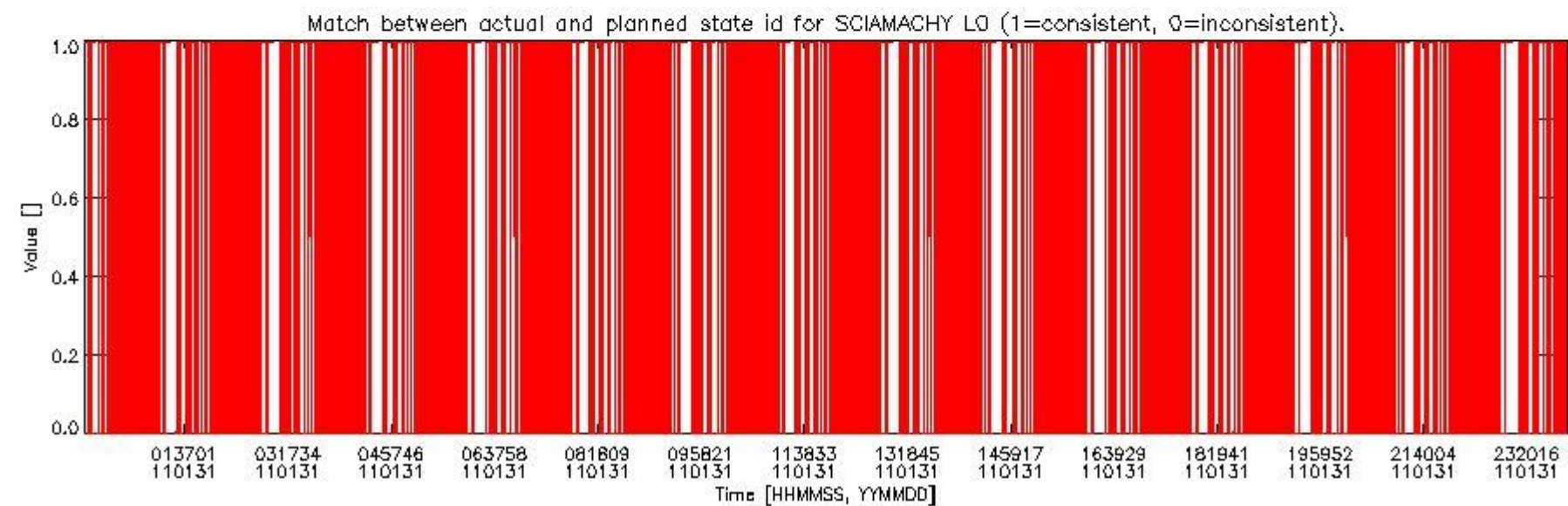
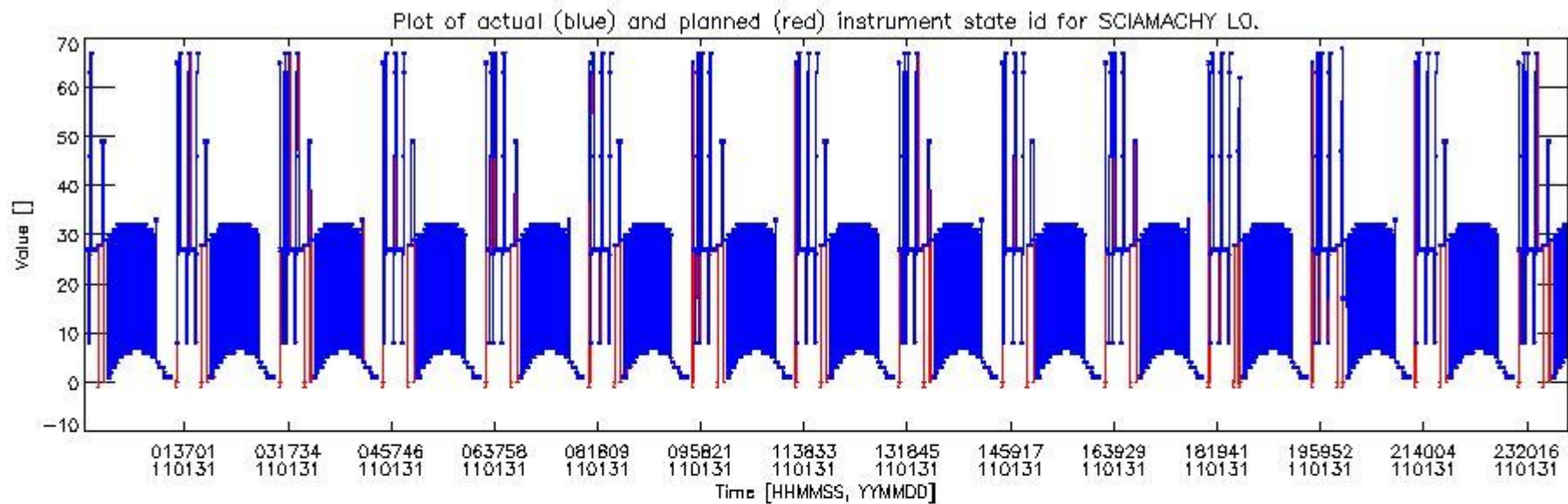


### 0.3 State monitoring

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: **29745**

#	Actual time	Actual value	Planned time	Planned value
0	31JAN2011 00:03:39.013597	8	31JAN2011 00:03:39.013597	27
1	31JAN2011 00:03:39.638597	8	31JAN2011 00:03:39.638597	27
2	31JAN2011 00:03:40.138597	8	31JAN2011 00:03:40.138597	27
3	31JAN2011 00:03:40.638597	8	31JAN2011 00:03:40.638597	27
4	31JAN2011 00:03:41.138597	8	31JAN2011 00:03:41.138597	27
5	31JAN2011 00:03:41.638597	8	31JAN2011 00:03:41.638597	27
6	31JAN2011 00:03:42.138597	8	31JAN2011 00:03:42.138597	27
7	31JAN2011 00:03:42.638597	8	31JAN2011 00:03:42.638597	27
8	31JAN2011 00:03:43.138597	8	31JAN2011 00:03:43.138597	27
9	31JAN2011 00:03:43.638597	8	31JAN2011 00:03:43.638597	27
10	31JAN2011 00:03:44.013597	8	31JAN2011 00:03:44.013597	27
11	31JAN2011 00:03:44.138597	8	31JAN2011 00:03:44.138597	27
12	31JAN2011 00:03:44.638597	8	31JAN2011 00:03:44.638597	27
13	31JAN2011 00:03:45.138597	8	31JAN2011 00:03:45.138597	27
14	31JAN2011 00:03:45.638597	8	31JAN2011 00:03:45.638597	27
15	31JAN2011 00:04:22.572196	26	31JAN2011 00:04:22.572196	8
16	31JAN2011 00:04:23.197196	26	31JAN2011 00:04:23.197196	8
17	31JAN2011 00:04:23.697196	26	31JAN2011 00:04:23.697196	8
18	31JAN2011 00:04:24.197196	26	31JAN2011 00:04:24.197196	8
19	31JAN2011 00:04:24.697196	26	31JAN2011 00:04:24.697196	8
	...	...	...	...



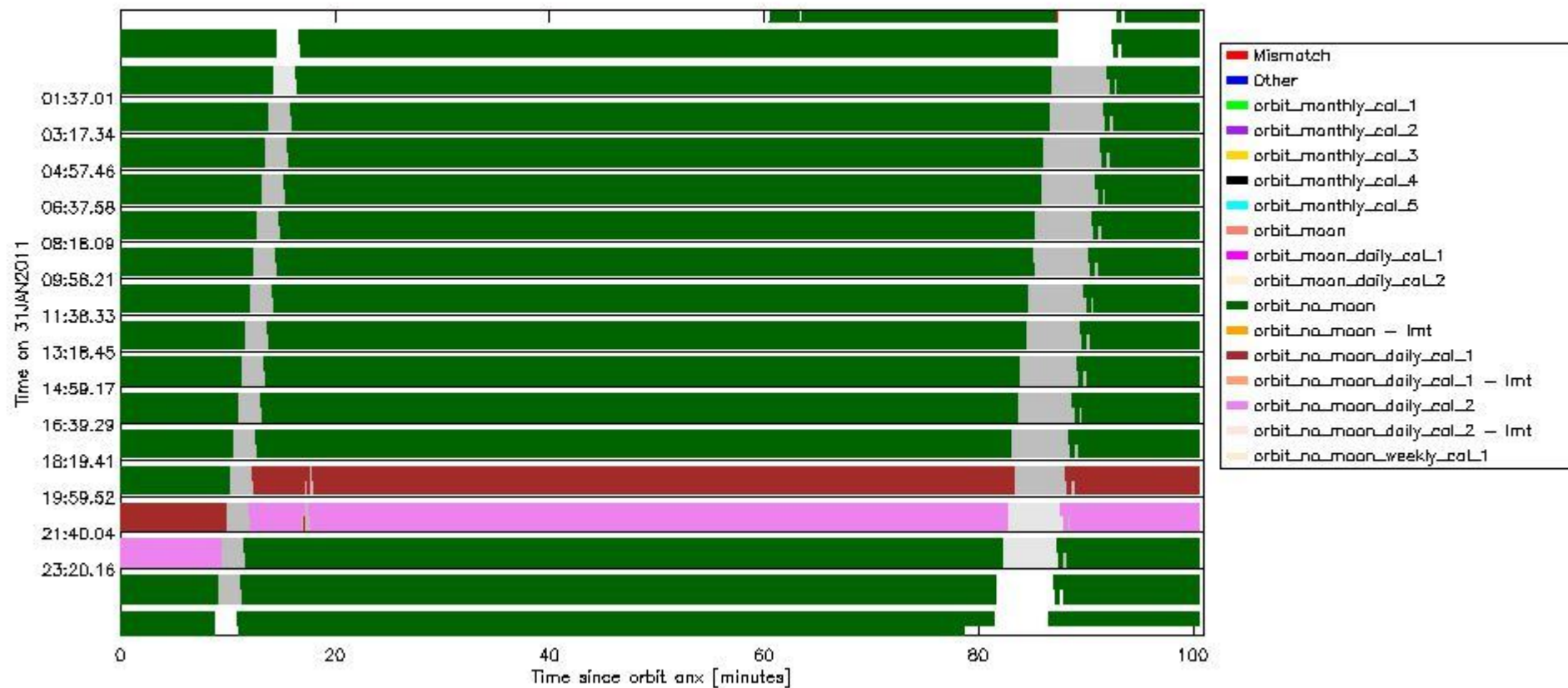
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110131\_5.PNG

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 31JAN2011.  
 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\_20110131\_6.PNG

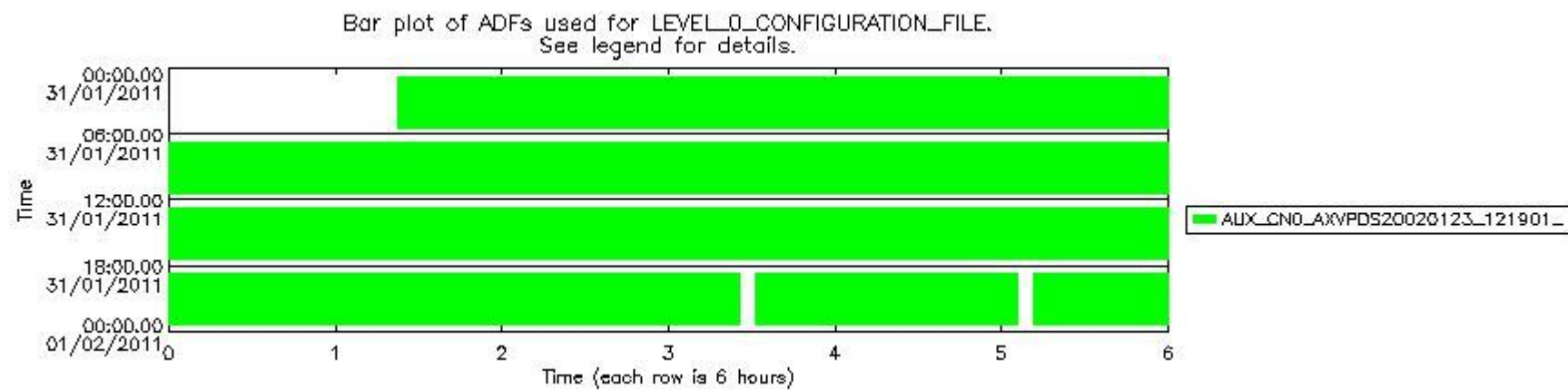
## 0.4 ADF monitoring

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

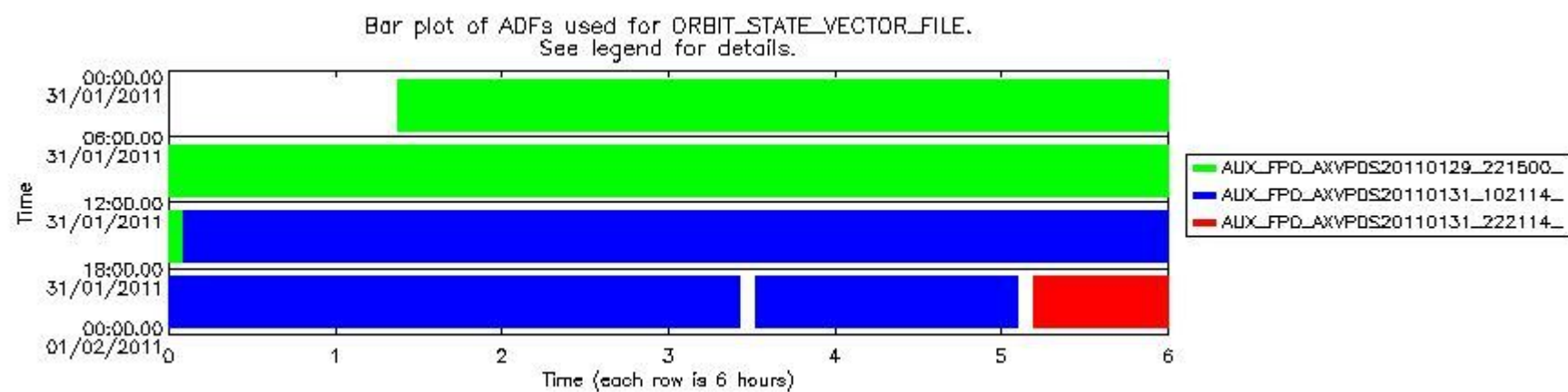
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

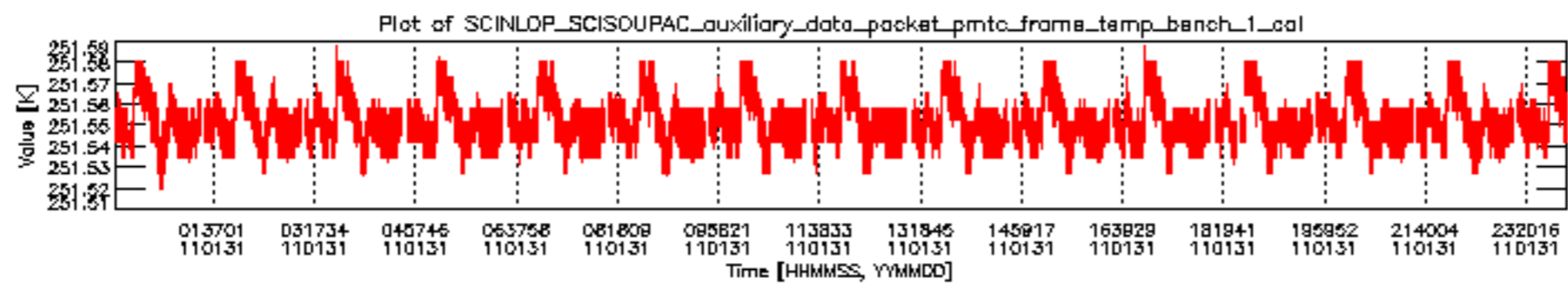
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110129_221500_20110129_193301_20110208_200639
2	AUX_FPO_AXVPDS20110131_102114_20110130_185617_20110209_211009
3	AUX_FPO_AXVPDS20110131_222114_20110131_181934_20110210_203325



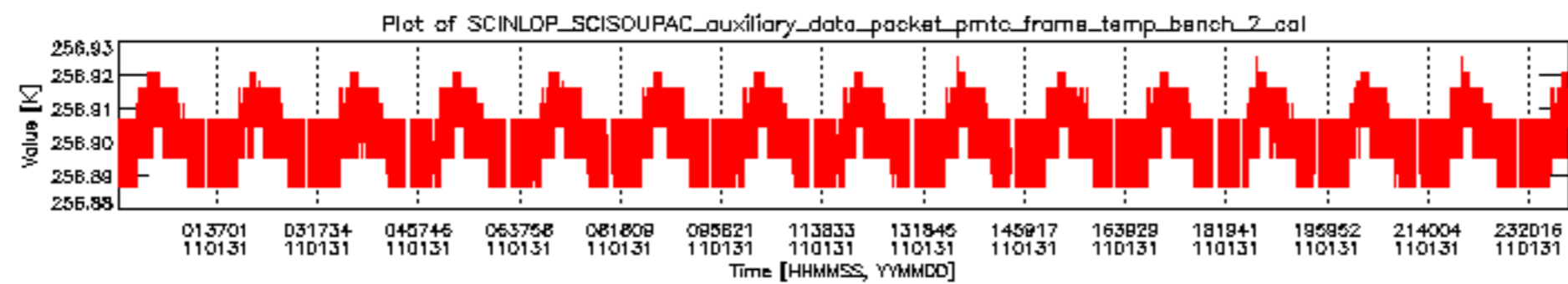
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110131\_7.PNG

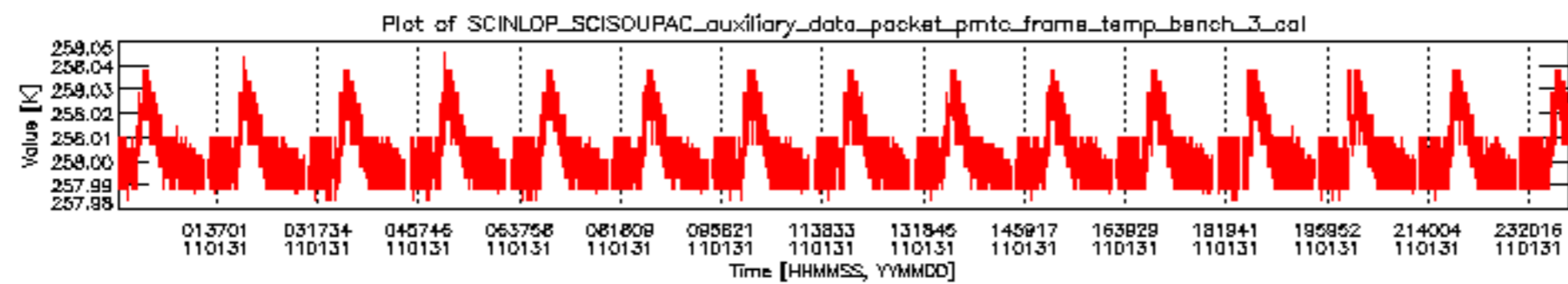


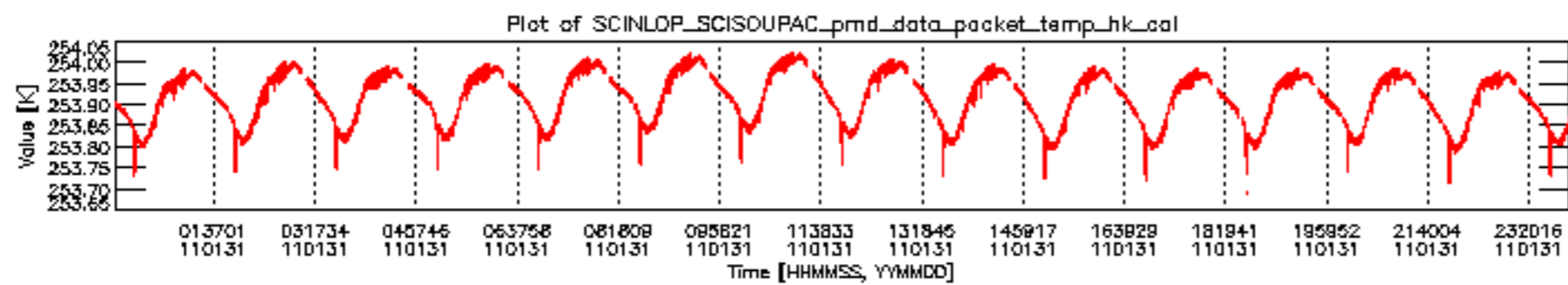
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110131\_8.PNG

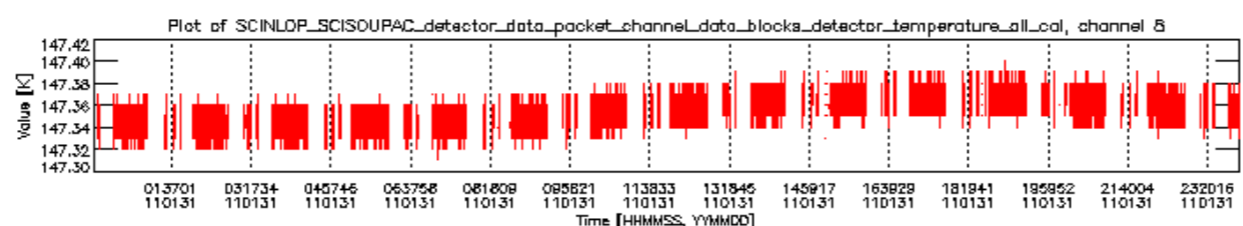
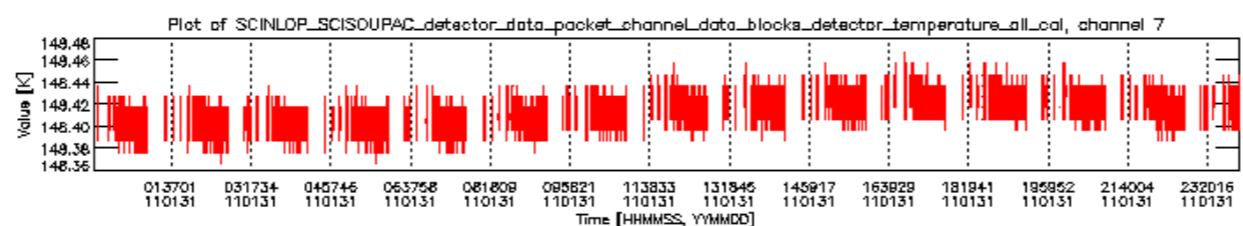
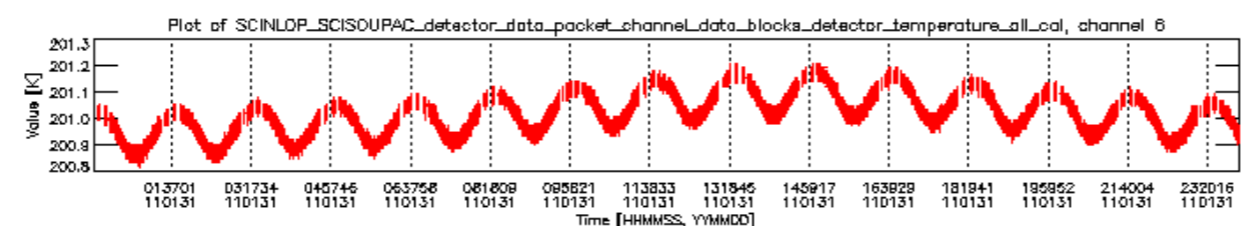
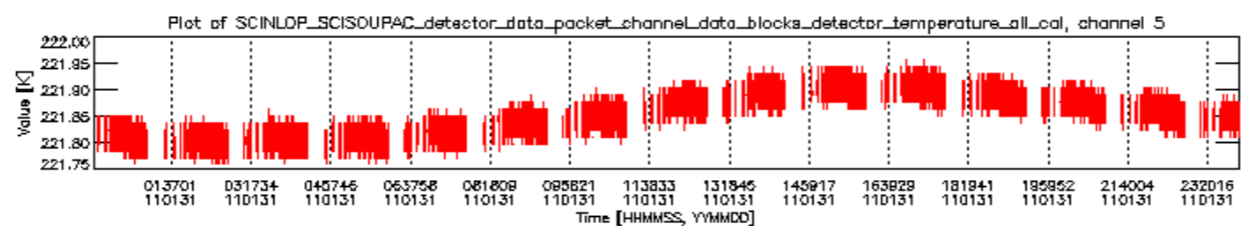
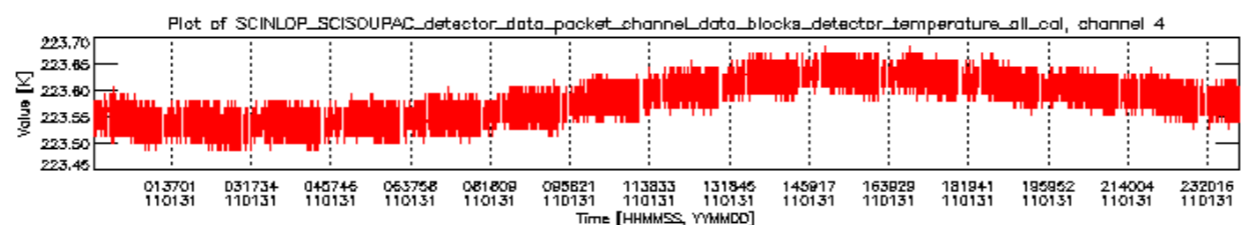
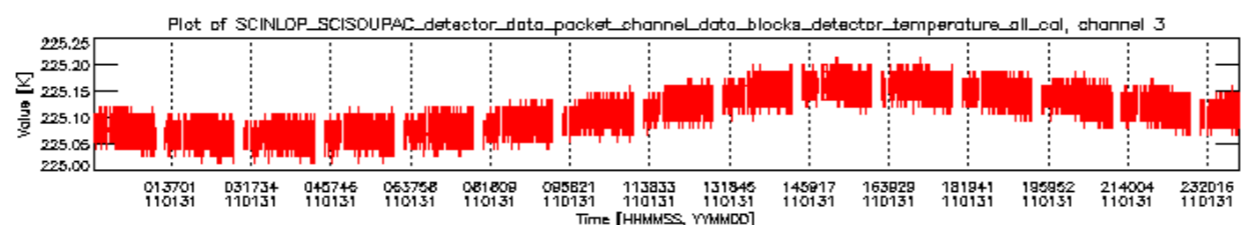
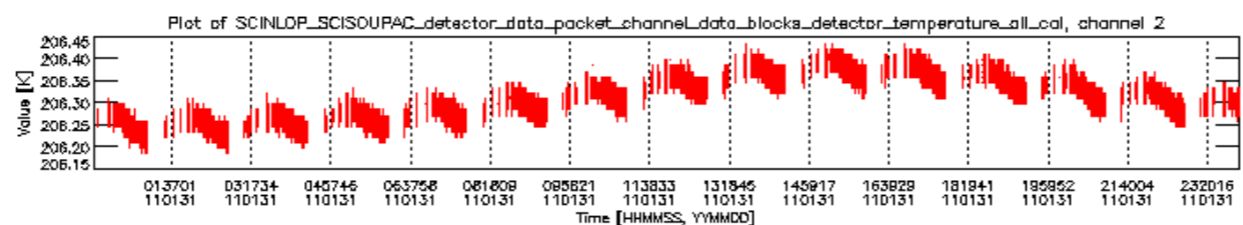
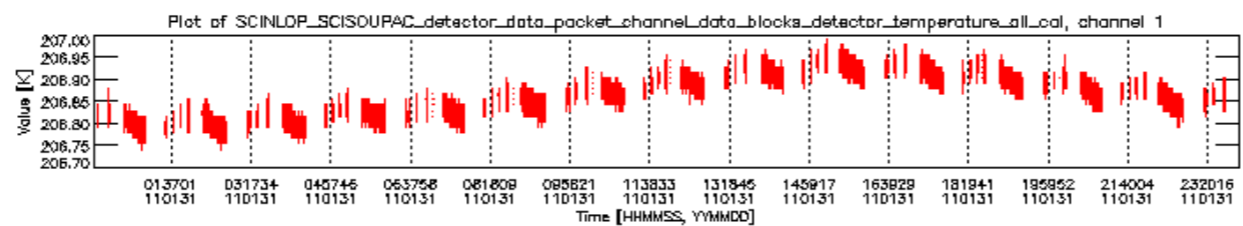




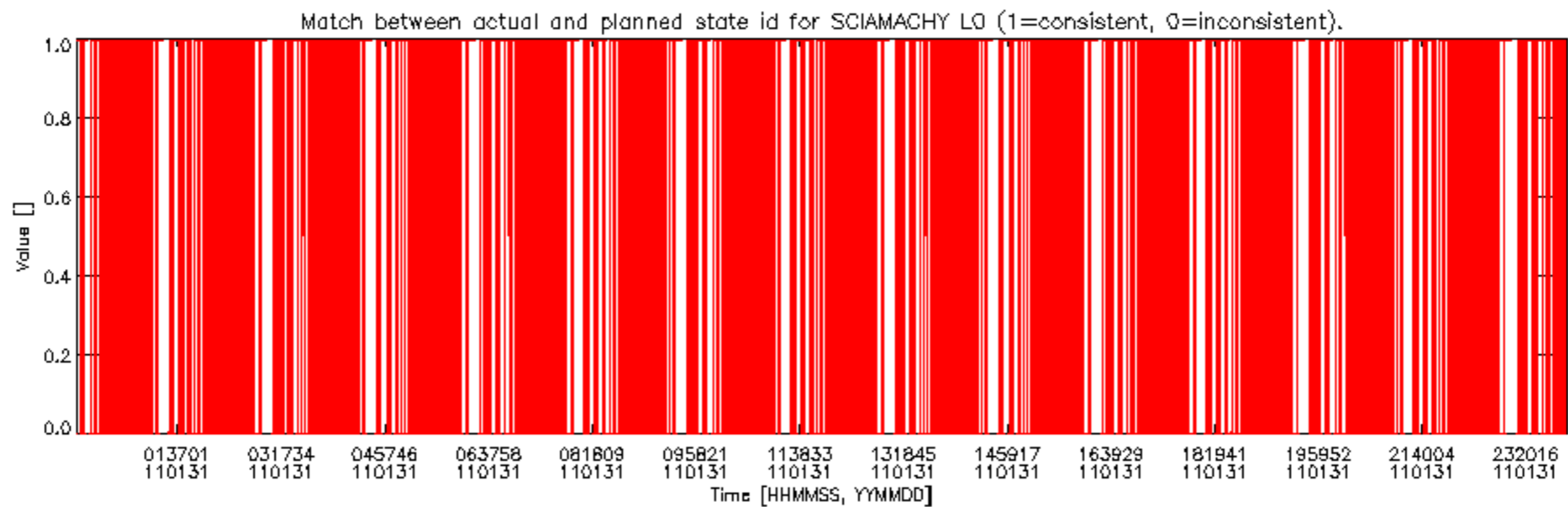
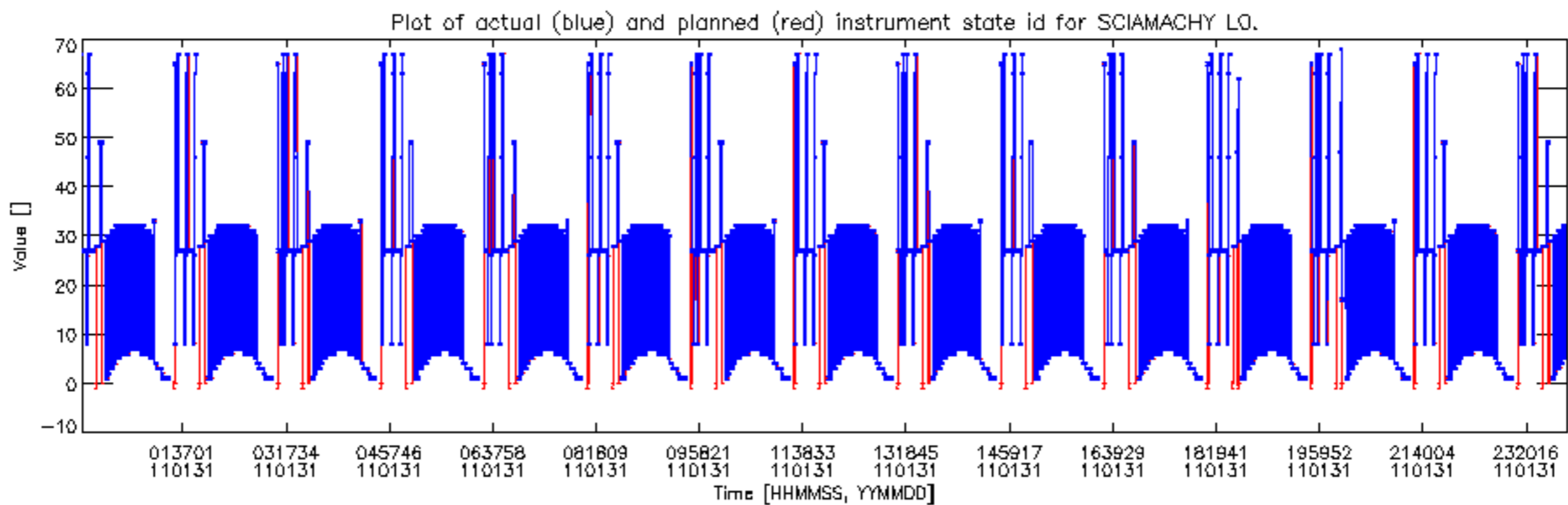




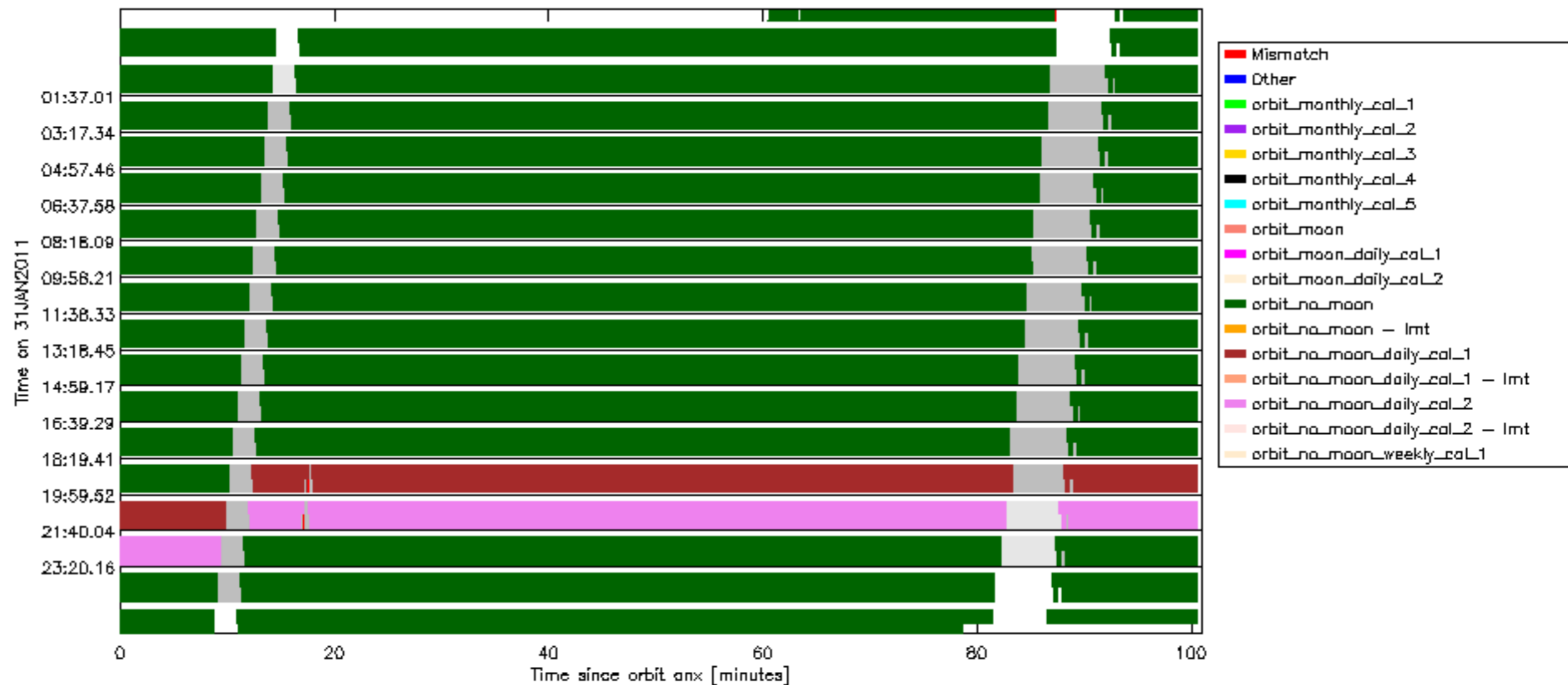


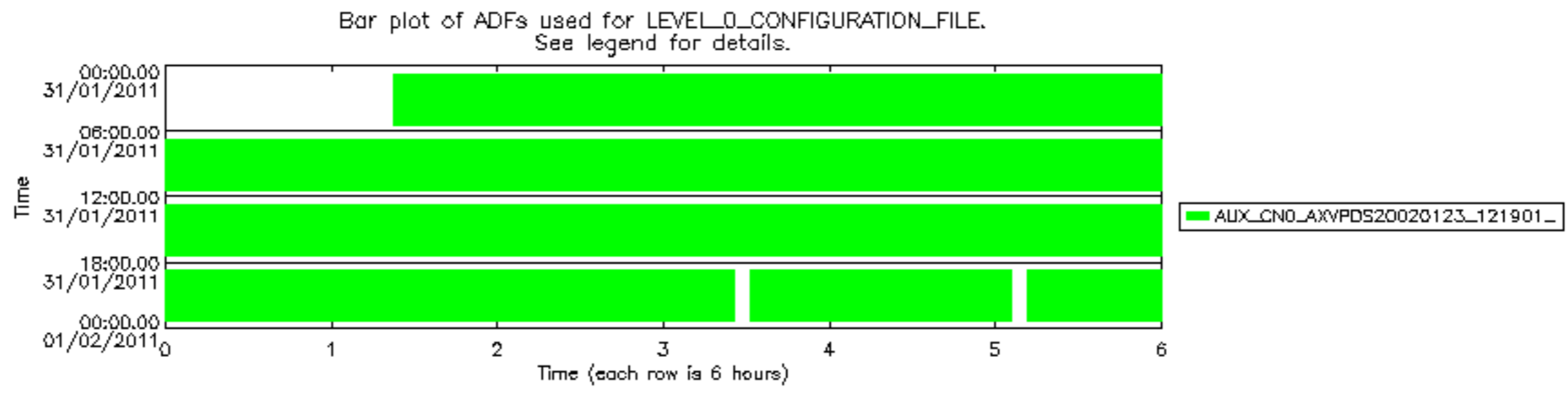






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 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.

