

## 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	26NOV2011 03:12:40
Data source version	KSPT_L0/4504-N
Processing scope for products	19NOV2011 00:00:00 to 20NOV2011 00:00:00
Start time of first product within scope	19NOV2011 01:20:58
Stop time of last product within scope	20NOV2011 00:44:18
Total number of Level 0 products	14
Number of Level 0 products with errors	1

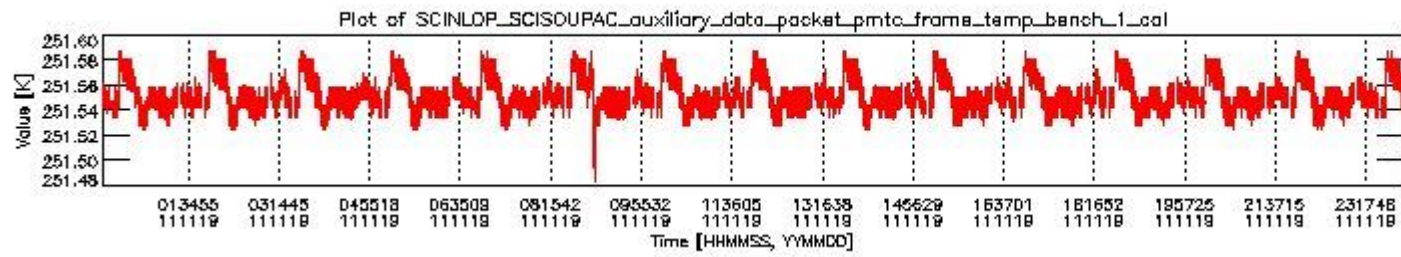
### 0.1.2 Summary per product

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

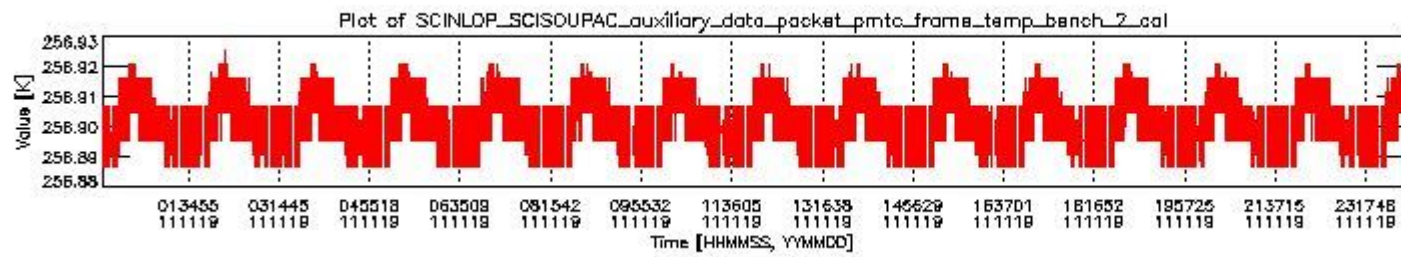
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20111119_012058_000102923108_00390_50835_4292.N1	19NOV2011 01:20:58	19NOV2011 04:12:31	0	0	0	0	0
1	SCI_NL__OPNPDE20111119_041231_000062743108_00392_50837_4293.N1	19NOV2011 04:12:31	19NOV2011 05:57:05	0	0	0	0	0
2	SCI_NL__OPNPDE20111119_055556_000061373108_00393_50838_4294.N1	19NOV2011 05:55:56	19NOV2011 07:38:13	0	0	0	0	0
3	SCI_NL__OPNPDK20111119_073705_000039423108_00394_50839_6429.N1	19NOV2011 07:37:05	19NOV2011 08:42:47	0	0	0	0	0
4	SCI_NL__OPNPDK20111119_084138_000060143108_00395_50840_6430.N1	19NOV2011 08:41:38	19NOV2011 10:21:52	0	0	0	0	0
5	SCI_NL__OPNPDK20111119_102004_000062453108_00396_50841_6431.N1	19NOV2011 10:20:04	19NOV2011 12:04:09	0	0	0	0	0
6	SCI_NL__OPNPDK20111119_120207_000059063108_00397_50842_6432.N1	19NOV2011 12:02:07	19NOV2011 13:40:32	1	1	0	0	0
7	SCI_NL__OPNPDK20111119_133720_000061523108_00398_50843_6433.N1	19NOV2011 13:37:20	19NOV2011 15:19:53	0	0	0	0	0
8	SCI_NL__OPNPDK20111119_151735_000059593108_00399_50844_6434.N1	19NOV2011 15:17:35	19NOV2011 16:56:54	0	0	0	0	0
9	SCI_NL__OPNPDK20111119_165505_000060143108_00400_50845_6435.N1	19NOV2011 16:55:05	19NOV2011 18:35:20	0	0	0	0	0
10	SCI_NL__OPNPDK20111119_183425_000057393108_00401_50846_6437.N1	19NOV2011 18:34:25	19NOV2011 20:10:05	0	0	0	0	0
11	SCI_NL__OPNPDE20111119_201005_000044383108_00402_50847_4295.N1	19NOV2011 20:10:05	19NOV2011 21:24:03	0	0	0	0	0
12	SCI_NL__OPNPDE20111119_212403_000060153108_00402_50847_4296.N1	19NOV2011 21:24:03	19NOV2011 23:04:18	0	0	0	0	0
13	SCI_NL__OPNPDE20111119_230418_000060003108_00403_50848_4297.N1	19NOV2011 23:04:18	20NOV2011 00:44:18	0	0	0	0	0

## 0.2 Product Quality Indicators

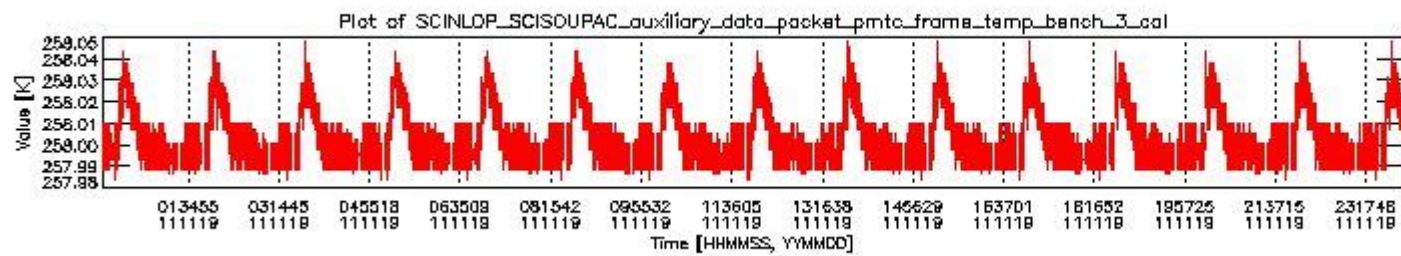
This section shows information about product quality, currently temperatures.



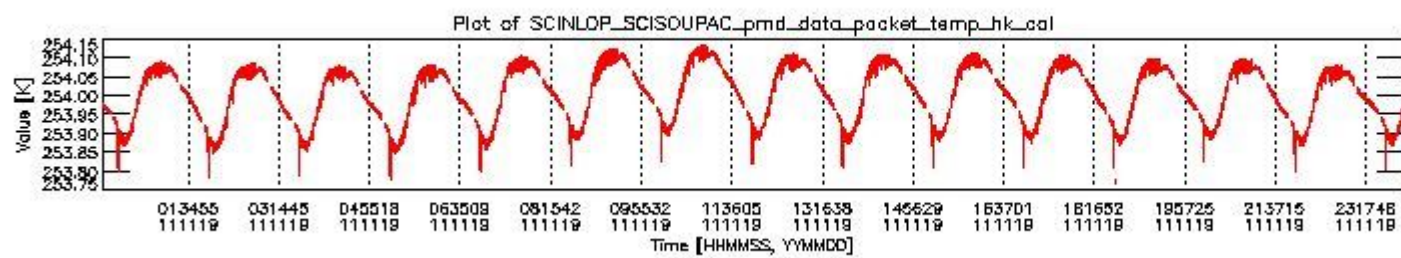
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111119\_0.PNG



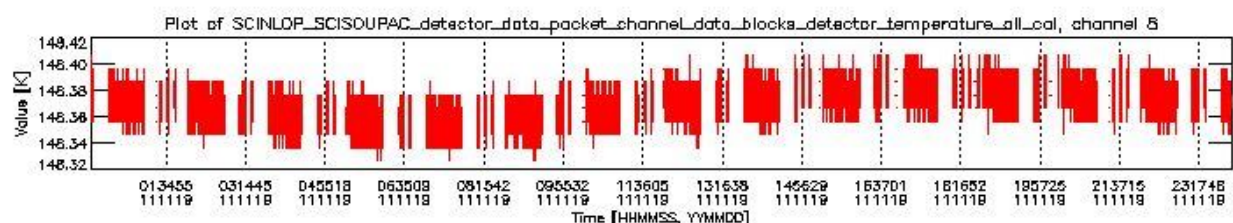
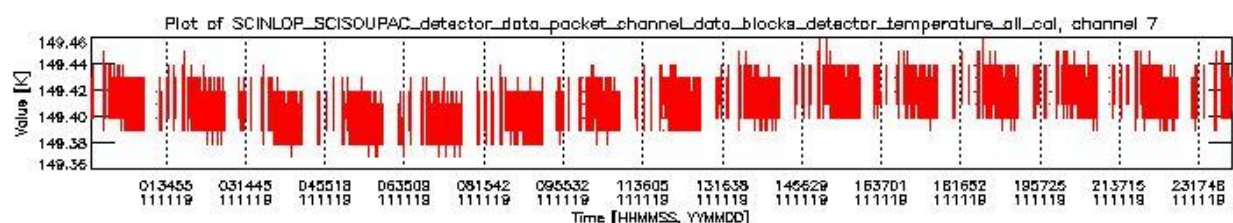
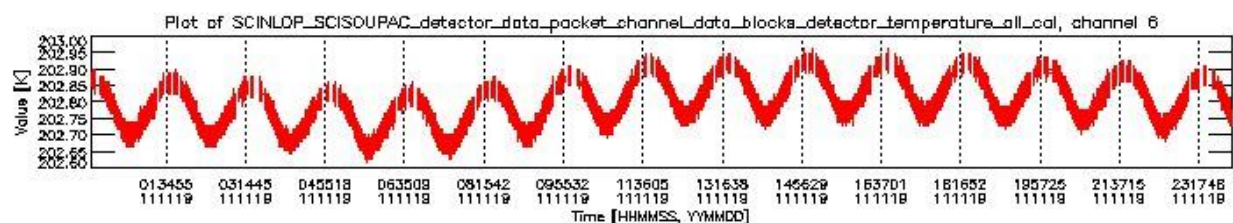
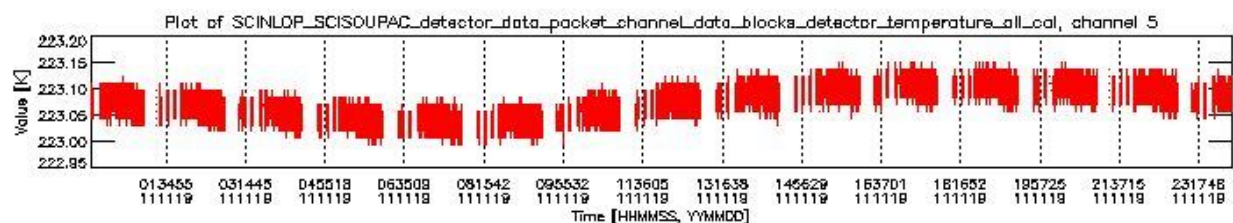
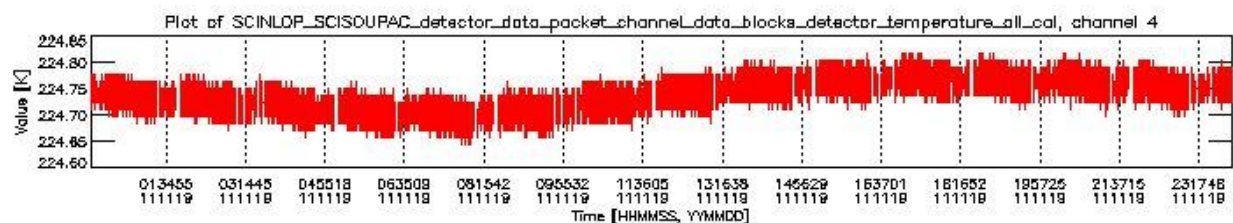
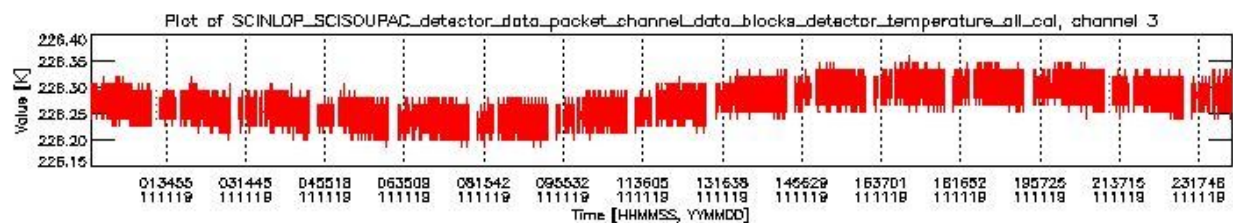
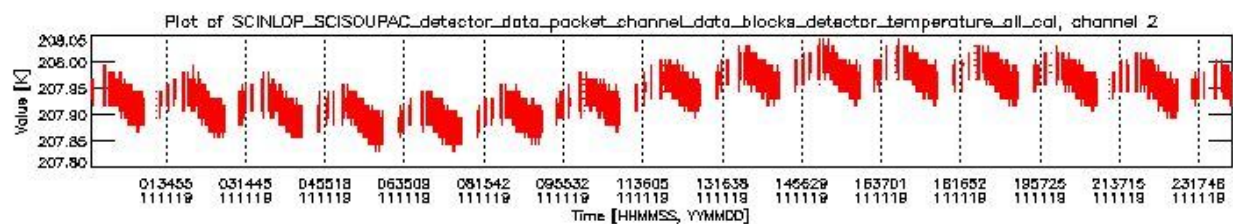
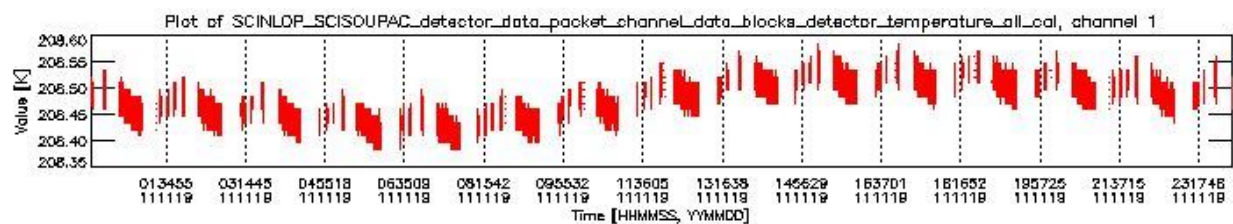
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111119\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111119\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111119\_3.PNG

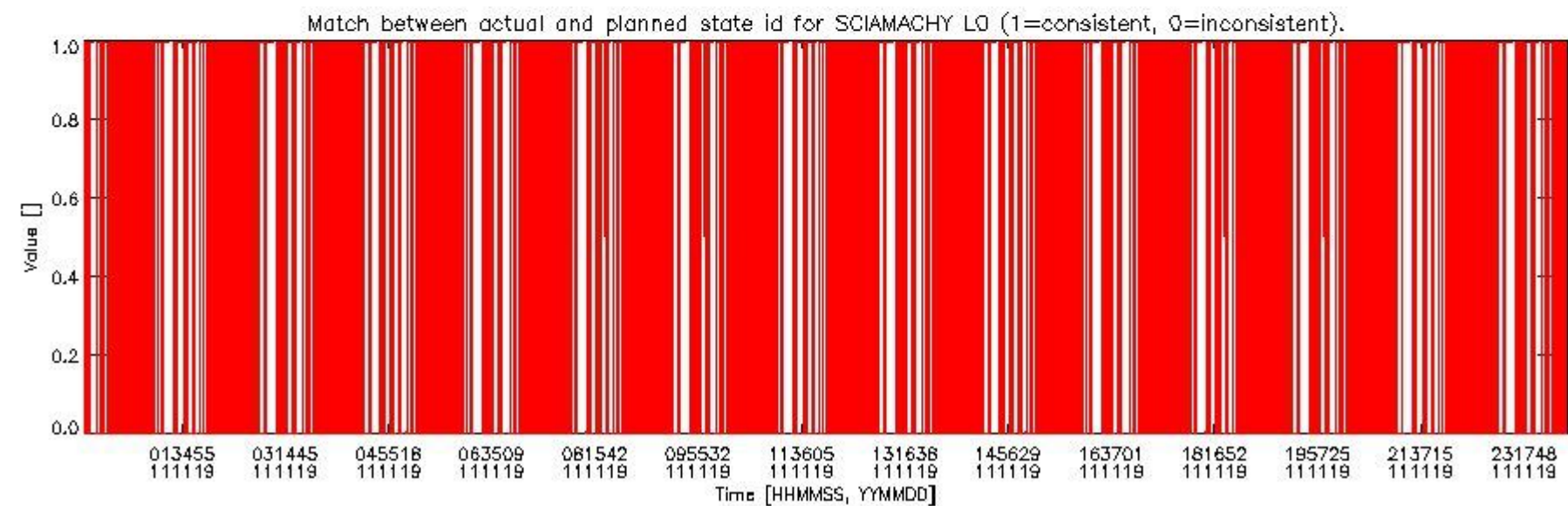
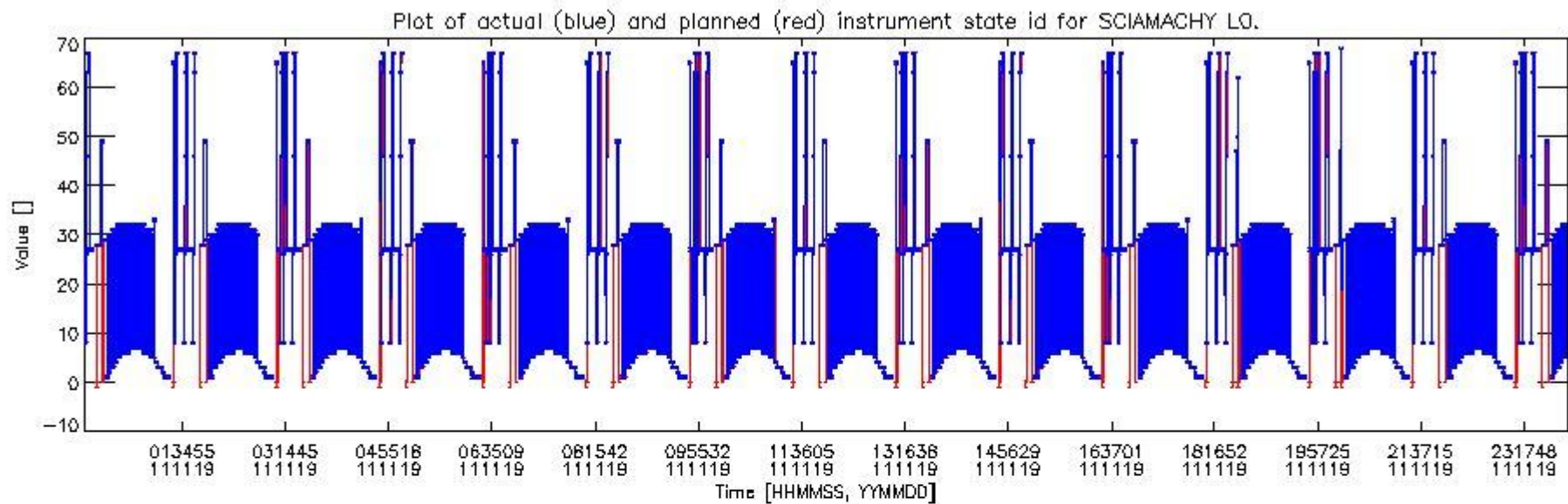


### 0.3 State monitoring

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: **51799**

#	Actual time	Actual value	Planned time	Planned value
0	19NOV2011 00:00:49.981703	8	19NOV2011 00:00:49.981703	27
1	19NOV2011 00:00:50.606703	8	19NOV2011 00:00:50.606703	27
2	19NOV2011 00:00:51.106703	8	19NOV2011 00:00:51.106703	27
3	19NOV2011 00:00:51.606703	8	19NOV2011 00:00:51.606703	27
4	19NOV2011 00:00:52.106703	8	19NOV2011 00:00:52.106703	27
5	19NOV2011 00:00:52.606703	8	19NOV2011 00:00:52.606703	27
6	19NOV2011 00:00:53.106703	8	19NOV2011 00:00:53.106703	27
7	19NOV2011 00:00:53.606703	8	19NOV2011 00:00:53.606703	27
8	19NOV2011 00:00:54.106703	8	19NOV2011 00:00:54.106703	27
9	19NOV2011 00:00:54.606703	8	19NOV2011 00:00:54.606703	27
10	19NOV2011 00:00:54.981703	8	19NOV2011 00:00:54.981703	27
11	19NOV2011 00:00:55.106703	8	19NOV2011 00:00:55.106703	27
12	19NOV2011 00:00:55.606703	8	19NOV2011 00:00:55.606703	27
13	19NOV2011 00:00:56.106703	8	19NOV2011 00:00:56.106703	27
14	19NOV2011 00:00:56.606703	8	19NOV2011 00:00:56.606703	27
15	19NOV2011 00:00:57.106703	8	19NOV2011 00:00:57.106703	27
16	19NOV2011 00:00:57.606703	8	19NOV2011 00:00:57.606703	27
17	19NOV2011 00:00:58.106703	8	19NOV2011 00:00:58.106703	27
18	19NOV2011 00:00:58.606703	8	19NOV2011 00:00:58.606703	27
19	19NOV2011 00:00:59.106703	8	19NOV2011 00:00:59.106703	27
...	...	...	...	...

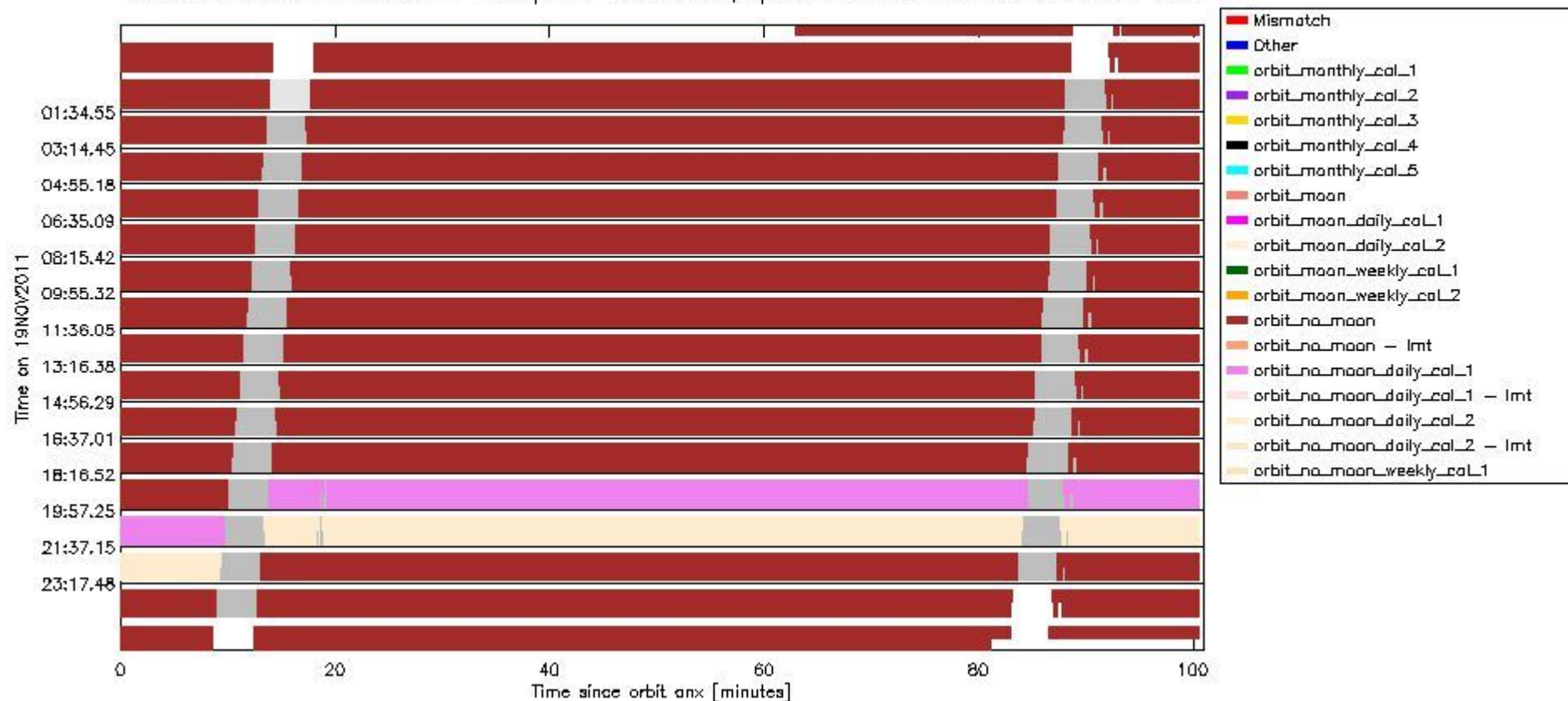


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111119\_5.PNG

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 19NOV2011.  
 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\_20111119\_6.PNG

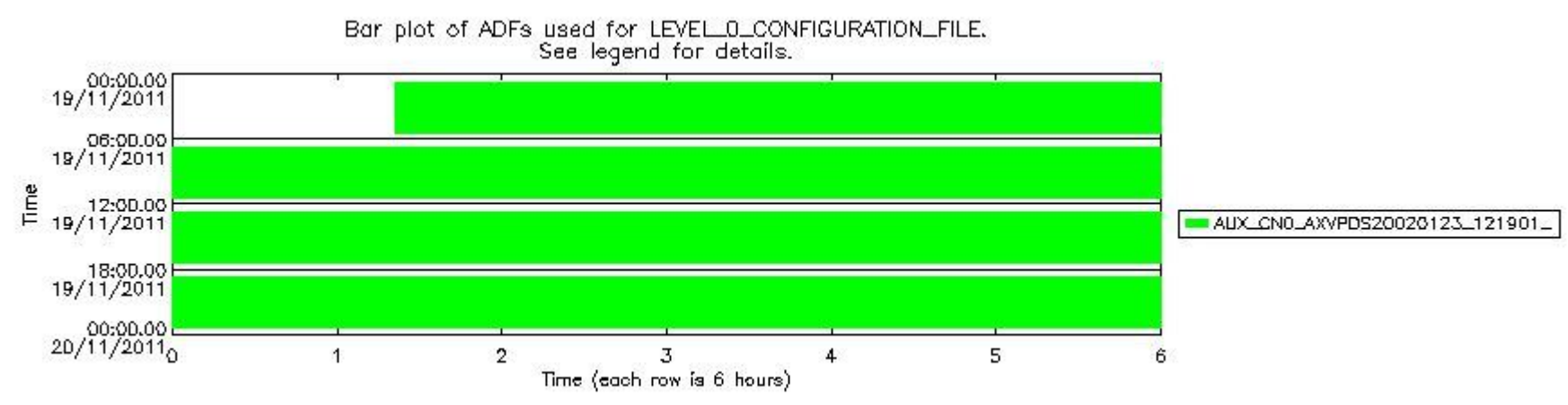
## 0.4 ADF monitoring

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

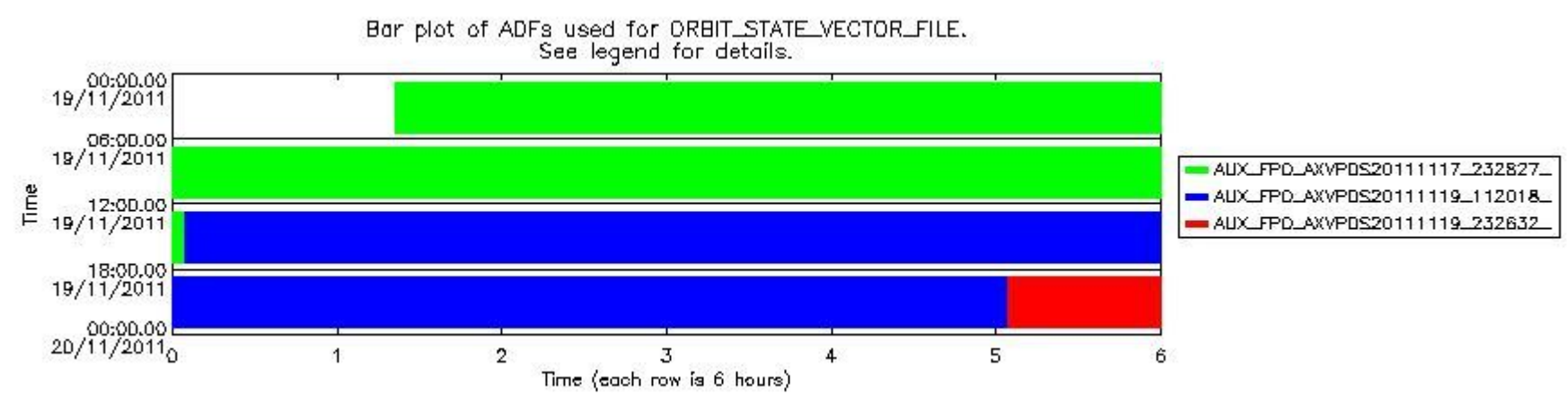
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

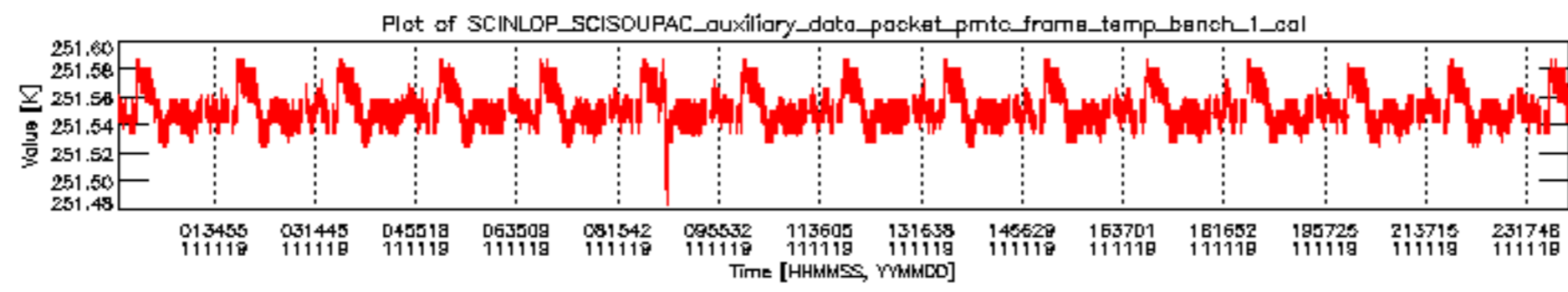
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20111117_232827_20111117_193030_20111127_200359</b>
2	<b>AUX_FPO_AXVPDS20111119_112018_20111118_185346_20111128_210728</b>
3	<b>AUX_FPO_AXVPDS20111119_232632_20111119_195715_20111129_203043</b>



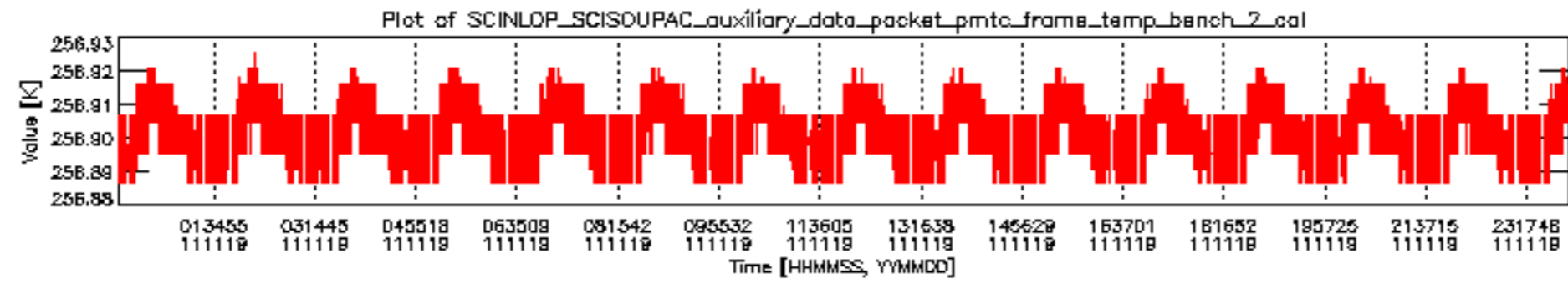
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111119\_7.PNG

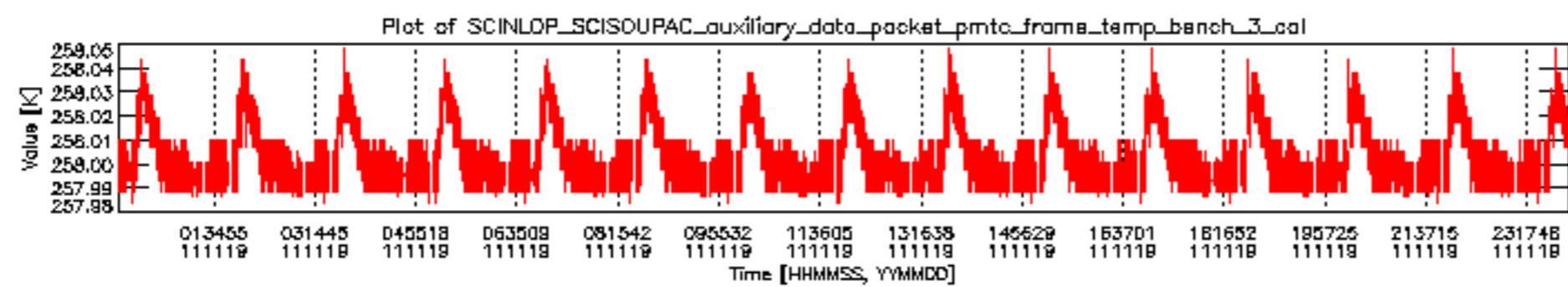


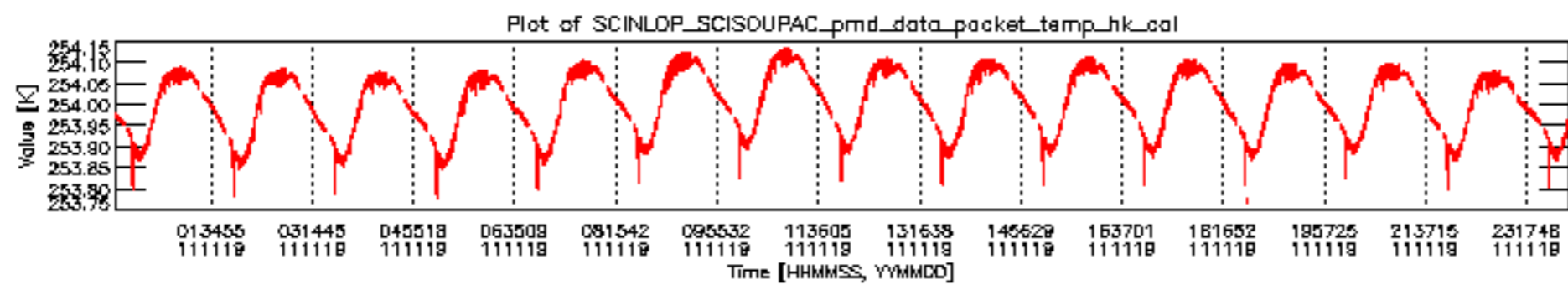
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111119\_8.PNG

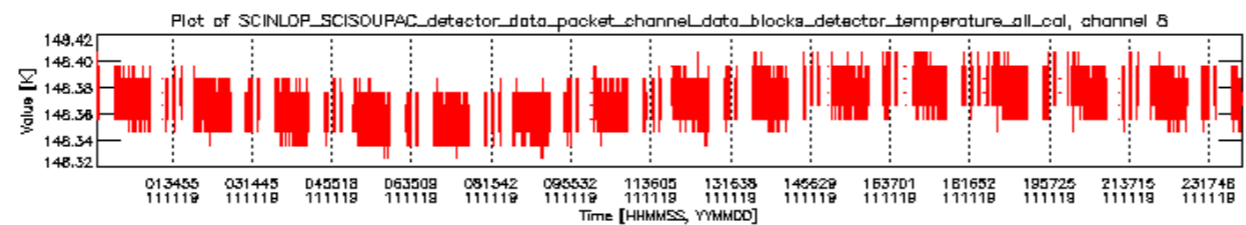
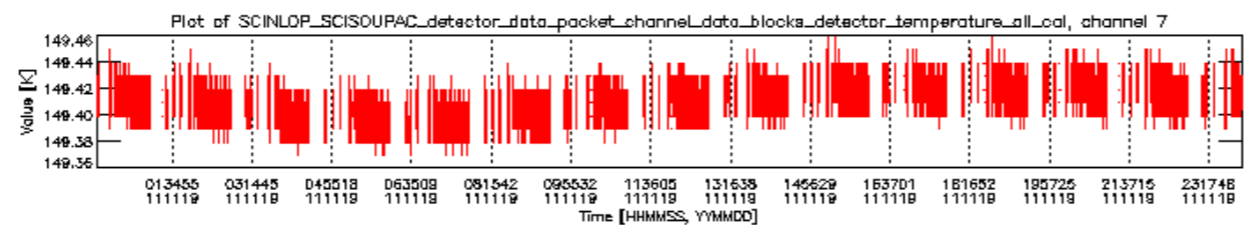
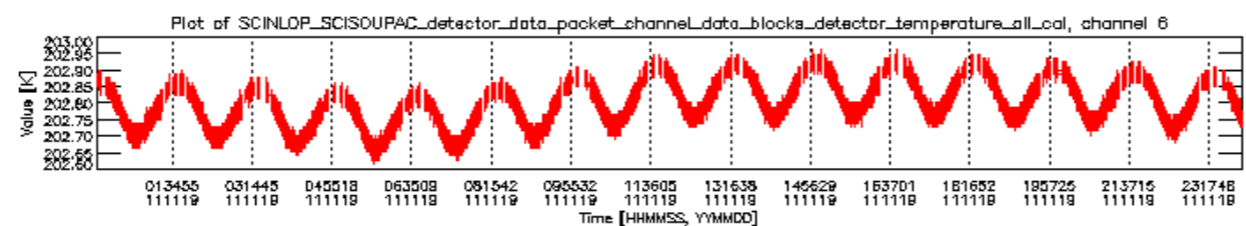
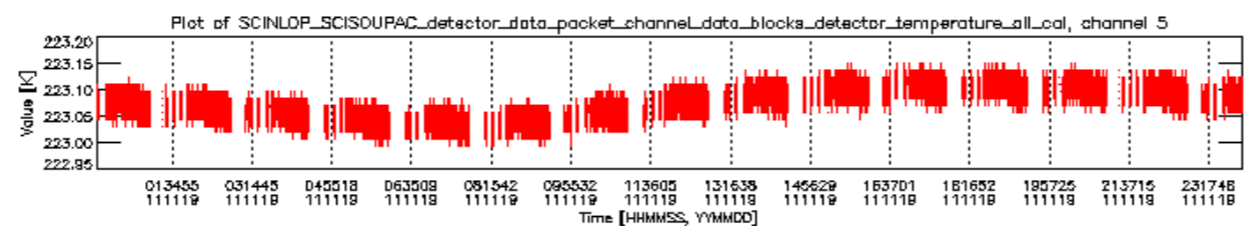
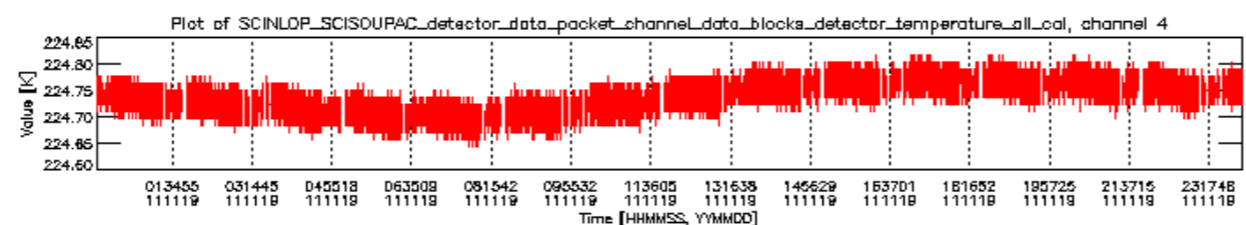
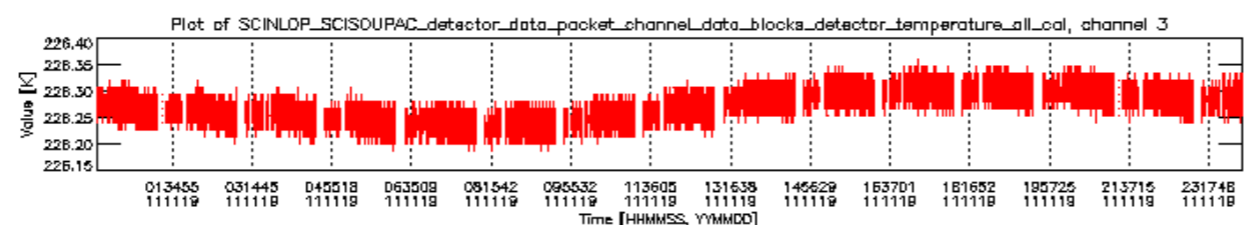
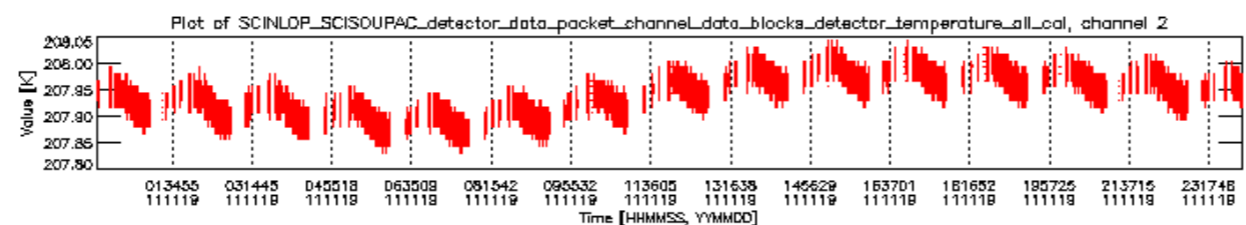
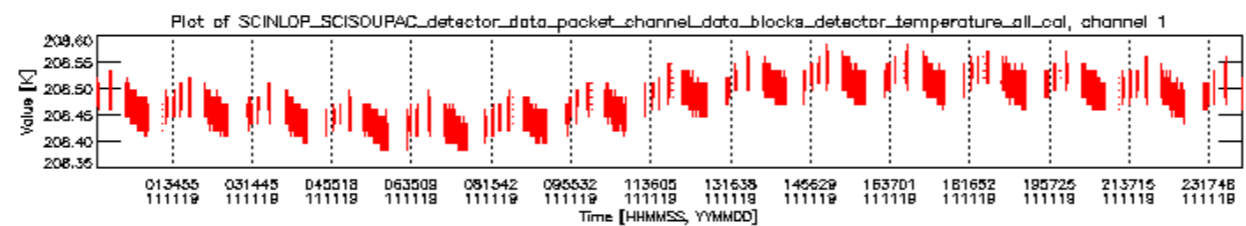


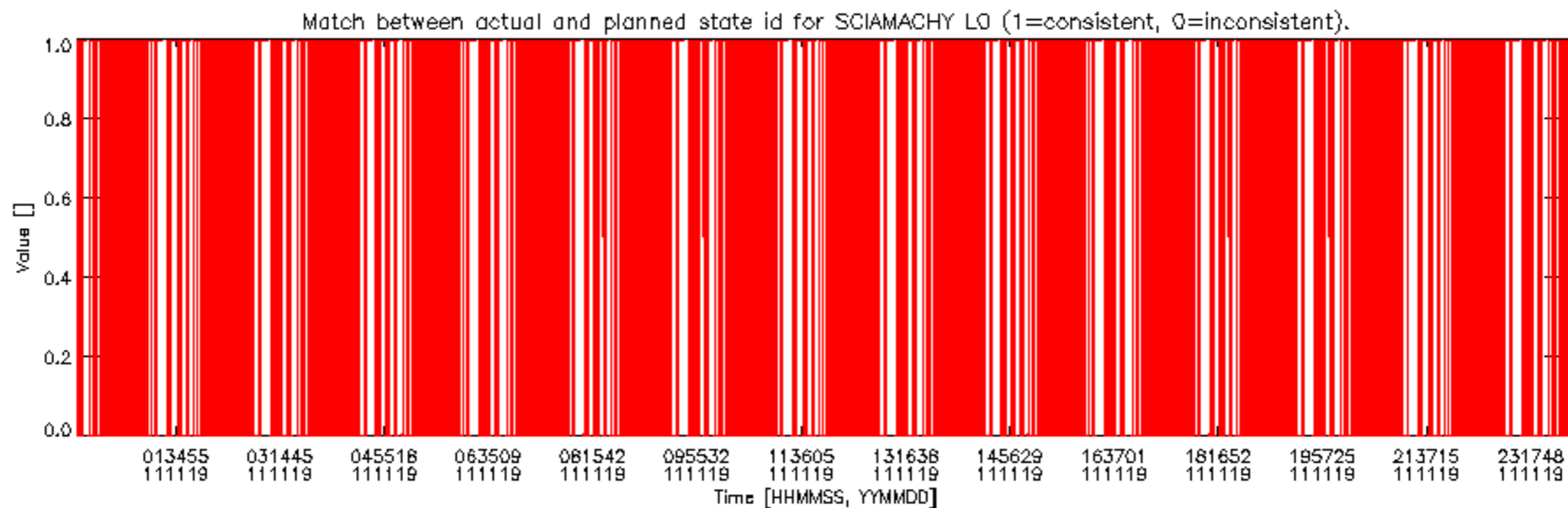
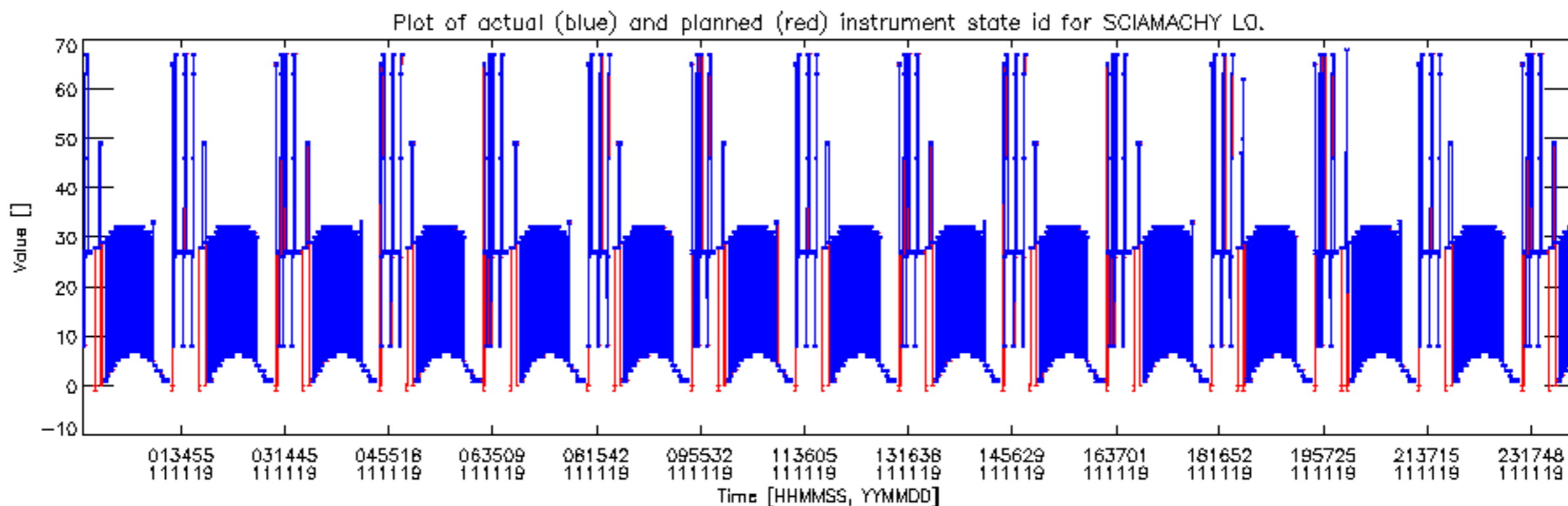




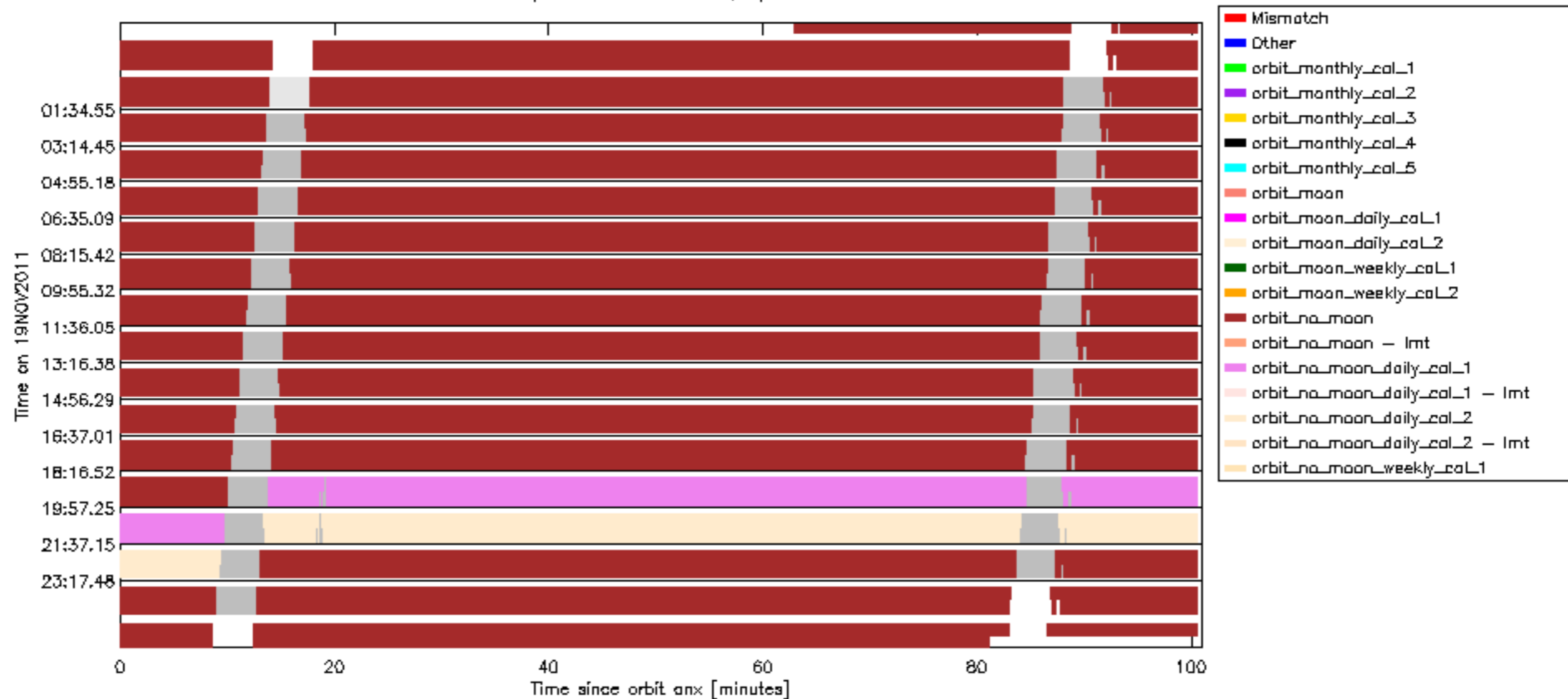


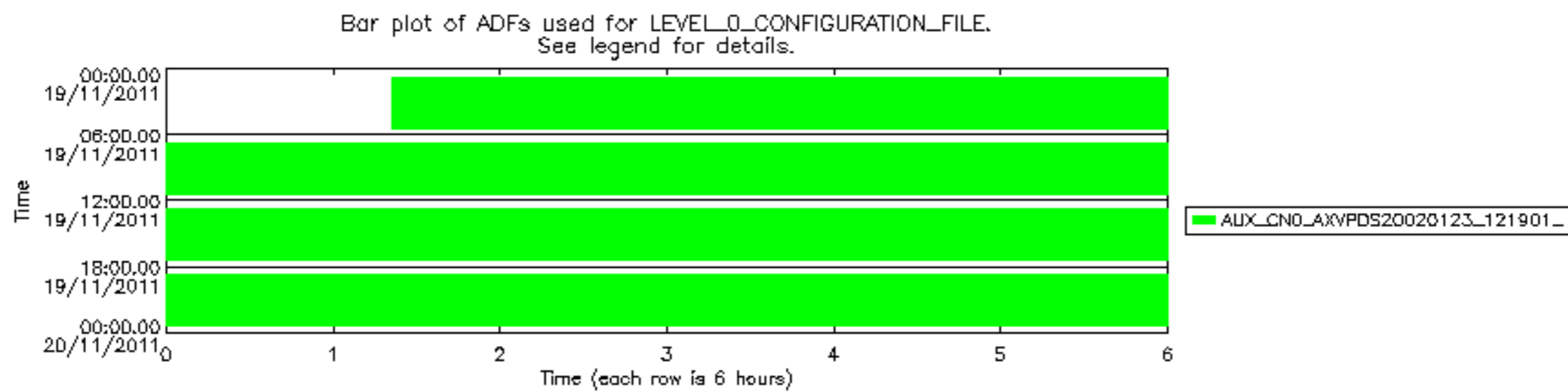






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 Each row indicates an orbit. A light gray colour indicates the time span of 19NOV2011.  
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Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

