

## 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	22OCT2010 11:36:06
Data source version	<Any version>
Processing scope for products	15OCT2010 00:00:00 to 16OCT2010 00:00:00
Start time of first product within scope	15OCT2010 01:34:19
Stop time of last product within scope	16OCT2010 00:57:00
Total number of Level 0 products	15
Number of Level 0 products with errors	0

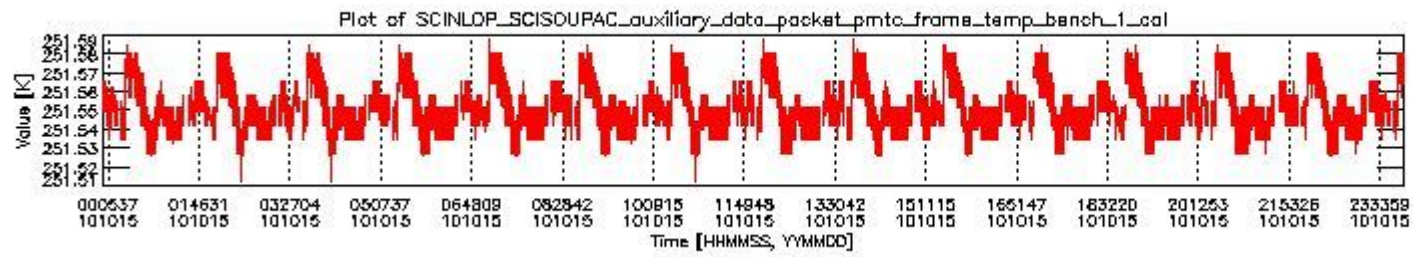
### 0.1.2 Summary per product

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

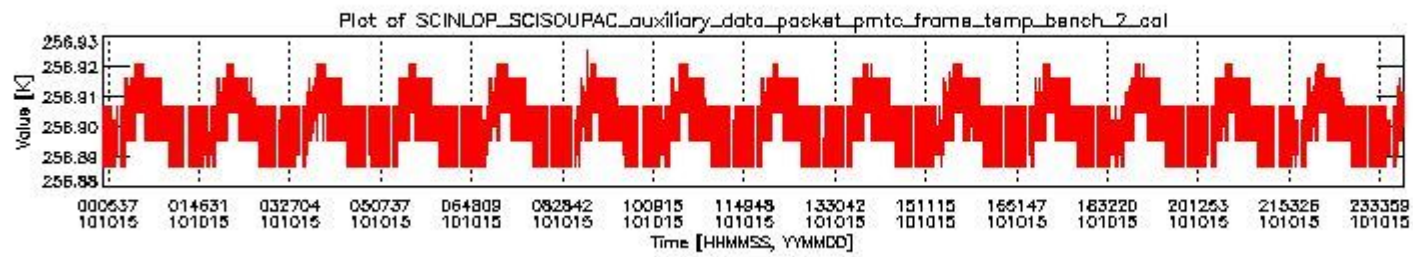
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20101015_013419_000042422093_00446_45089_1733.N1	15OCT2010 01:34:19	15OCT2010 02:45:01	0	0	0	0	0
1	SCI_NL__OPNPDE20101015_024405_000062292093_00447_45090_1734.N1	15OCT2010 02:44:05	15OCT2010 04:27:55	0	0	0	0	0
2	SCI_NL__OPNPDE20101015_042646_000060372093_00448_45091_1735.N1	15OCT2010 04:26:46	15OCT2010 06:07:23	0	0	0	0	0
3	SCI_NL__OPNPDK20101015_060723_000041702093_00449_45092_2752.N1	15OCT2010 06:07:23	15OCT2010 07:16:53	0	0	0	0	0
4	SCI_NL__OPNPDK20101015_071557_000060922093_00450_45093_2753.N1	15OCT2010 07:15:57	15OCT2010 08:57:29	0	0	0	0	0
5	SCI_NL__OPNPDK20101015_085621_000060492093_00451_45094_2754.N1	15OCT2010 08:56:21	15OCT2010 10:37:10	0	0	0	0	0
6	SCI_NL__OPNPDK20101015_103601_000059122093_00452_45095_2755.N1	15OCT2010 10:36:01	15OCT2010 12:14:33	0	0	0	0	0
7	SCI_NL__OPNPDK20101015_121325_000061052093_00453_45096_2756.N1	15OCT2010 12:13:25	15OCT2010 13:55:09	0	0	0	0	0
8	SCI_NL__OPNPDK20101015_135305_000058692093_00454_45097_2757.N1	15OCT2010 13:53:05	15OCT2010 15:30:54	0	0	0	0	0
9	SCI_NL__OPNPDK20101015_152836_000060362093_00455_45098_2758.N1	15OCT2010 15:28:36	15OCT2010 17:09:12	0	0	0	0	0
10	SCI_NL__OPNPDK20101015_170912_000059242093_00456_45099_2759.N1	15OCT2010 17:09:12	15OCT2010 18:47:56	0	0	0	0	0
11	SCI_NL__OPNPDK20101015_184604_000062042093_00457_45100_2760.N1	15OCT2010 18:46:04	15OCT2010 20:29:28	0	0	0	0	0
12	SCI_NL__OPNPDE20101015_202737_000040902093_00458_45101_1736.N1	15OCT2010 20:27:37	15OCT2010 21:35:47	0	0	0	0	0
13	SCI_NL__OPNPDE20101015_214136_000056752093_00458_45101_1737.N1	15OCT2010 21:41:36	15OCT2010 23:16:11	0	0	0	0	0
14	SCI_NL__OPNPDE20101015_232212_000056872093_00459_45102_1738.N1	15OCT2010 23:22:12	16OCT2010 00:57:00	0	0	0	0	0

## 0.2 Product Quality Indicators

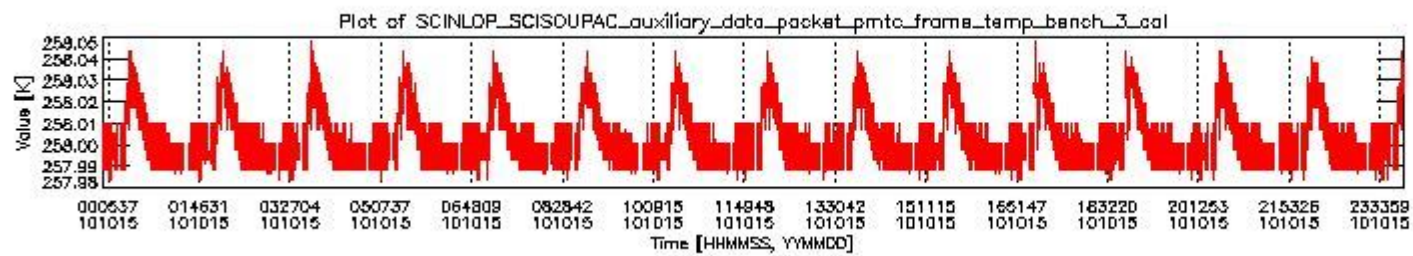
This section shows information about product quality, currently temperatures.



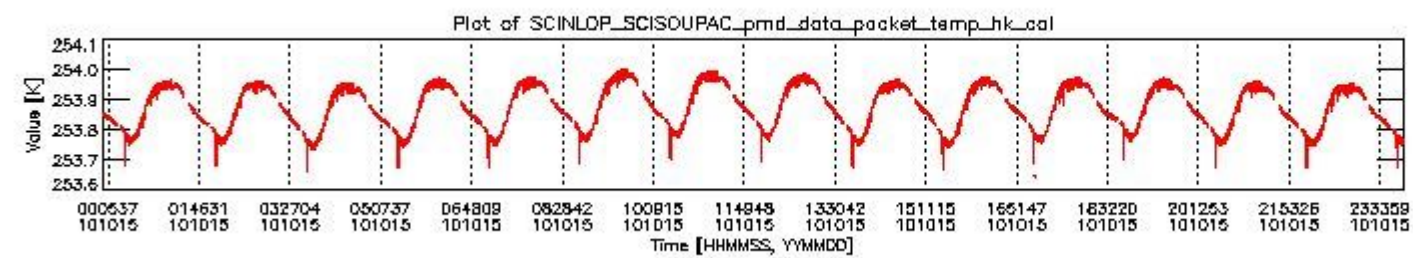
sciamachy\_daily\_report\_level0\_Any\_version\_20101015\_0.PNG



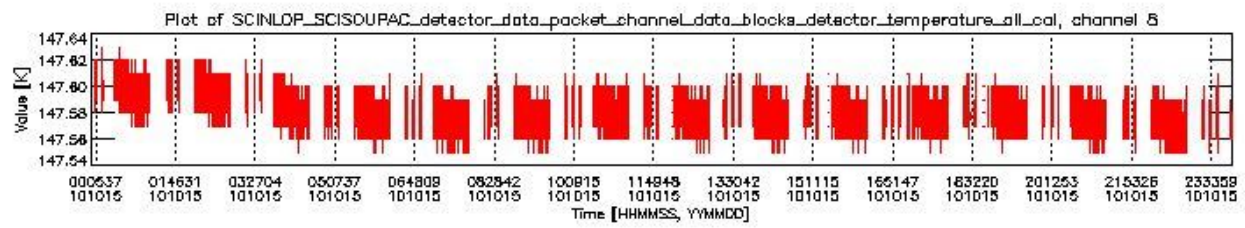
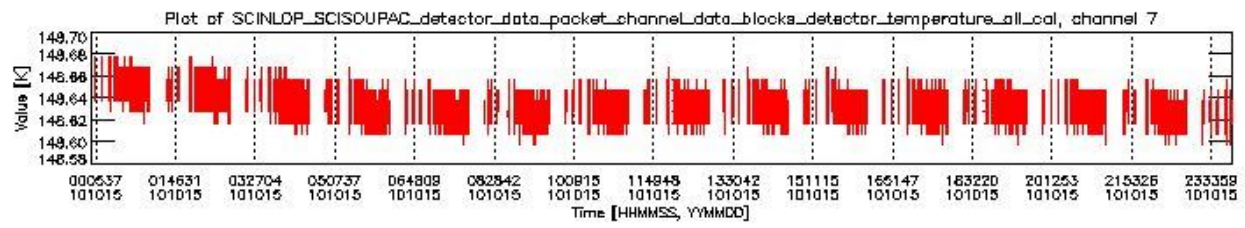
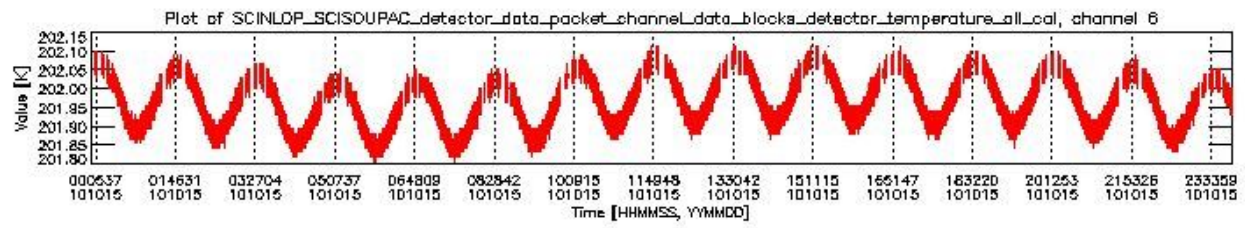
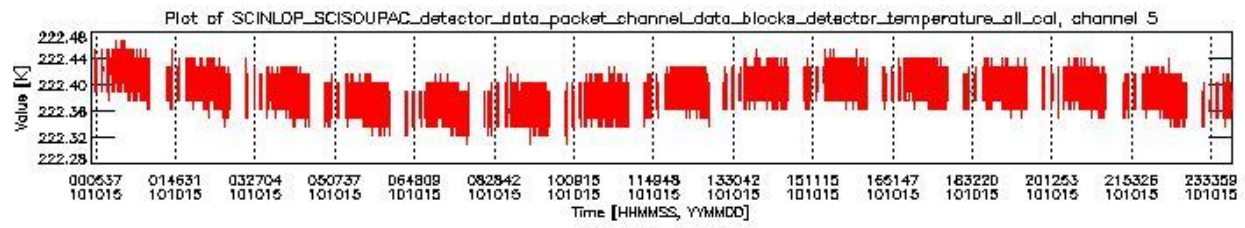
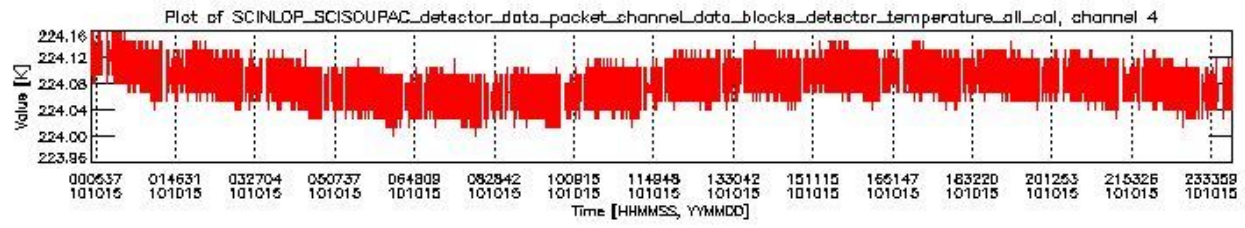
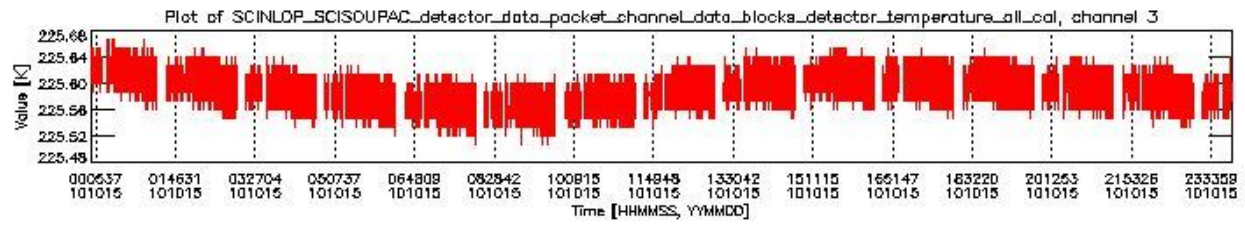
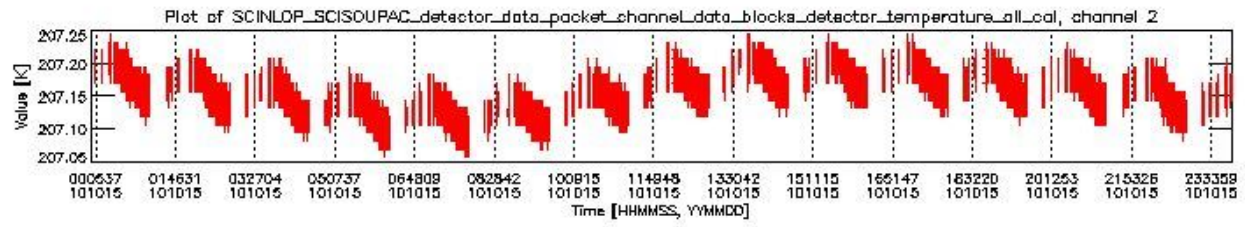
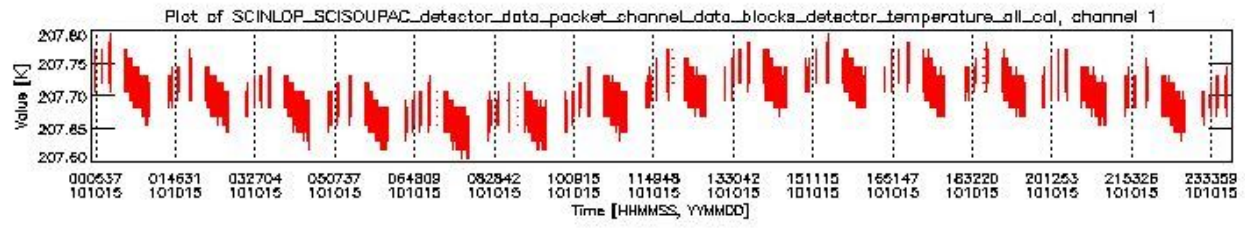
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sciamachy\_daily\_report\_level0\_Any\_version\_20101015\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20101015\_3.PNG

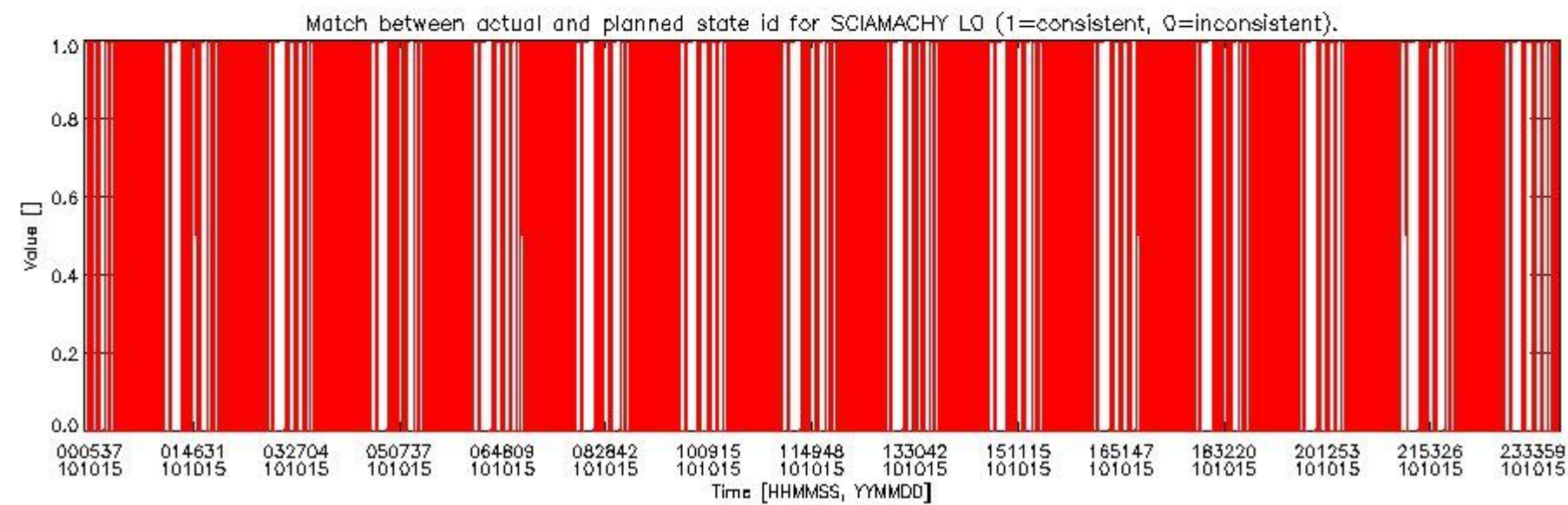
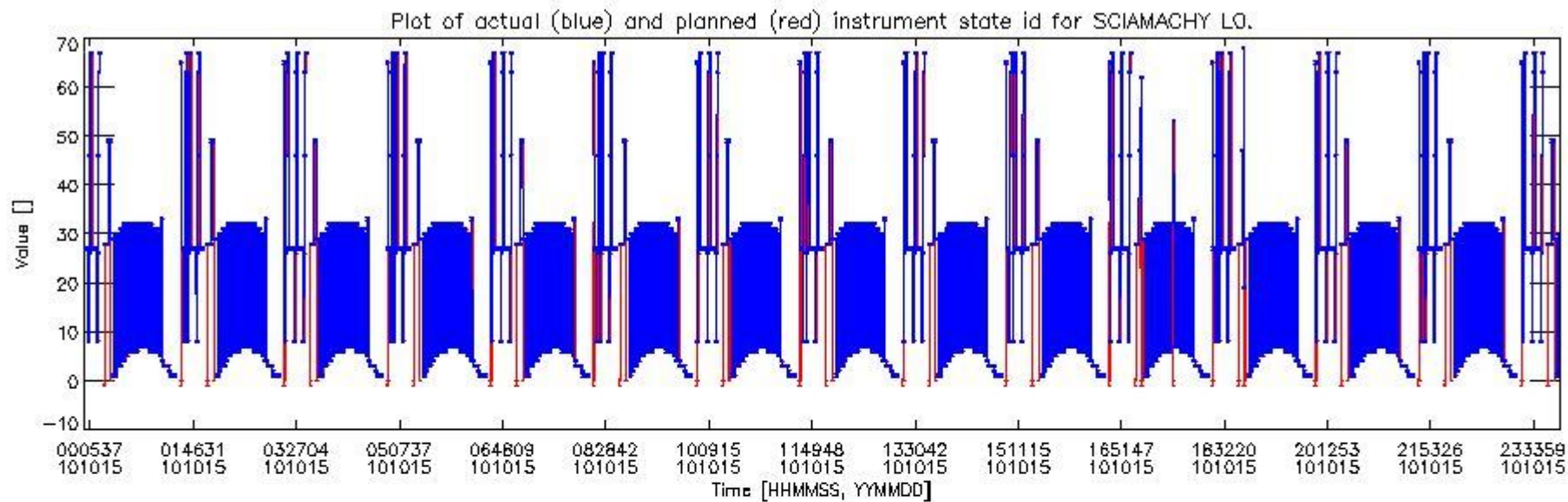


### 0.3 State monitoring

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: **110015**

#	Actual time	Actual value	Planned time	Planned value
0	15OCT2010 00:03:47.163757	8	15OCT2010 00:03:47.163757	27
1	15OCT2010 00:03:47.788757	8	15OCT2010 00:03:47.788757	27
2	15OCT2010 00:03:48.288757	8	15OCT2010 00:03:48.288757	27
3	15OCT2010 00:03:48.788757	8	15OCT2010 00:03:48.788757	27
4	15OCT2010 00:03:49.288757	8	15OCT2010 00:03:49.288757	27
5	15OCT2010 00:03:49.788757	8	15OCT2010 00:03:49.788757	27
6	15OCT2010 00:03:50.288757	8	15OCT2010 00:03:50.288757	27
7	15OCT2010 00:03:50.788757	8	15OCT2010 00:03:50.788757	27
8	15OCT2010 00:03:51.288757	8	15OCT2010 00:03:51.288757	27
9	15OCT2010 00:03:51.788757	8	15OCT2010 00:03:51.788757	27
10	15OCT2010 00:03:52.163757	8	15OCT2010 00:03:52.163757	27
11	15OCT2010 00:03:52.288757	8	15OCT2010 00:03:52.288757	27
12	15OCT2010 00:03:52.788757	8	15OCT2010 00:03:52.788757	27
13	15OCT2010 00:03:53.288757	8	15OCT2010 00:03:53.288757	27
14	15OCT2010 00:03:53.788757	8	15OCT2010 00:03:53.788757	27
15	15OCT2010 00:03:54.288757	8	15OCT2010 00:03:54.288757	27
16	15OCT2010 00:03:54.788757	8	15OCT2010 00:03:54.788757	27
17	15OCT2010 00:03:55.288757	8	15OCT2010 00:03:55.288757	27
18	15OCT2010 00:03:55.788757	8	15OCT2010 00:03:55.788757	27
19	15OCT2010 00:03:56.288757	8	15OCT2010 00:03:56.288757	27
...	...	...	...	...

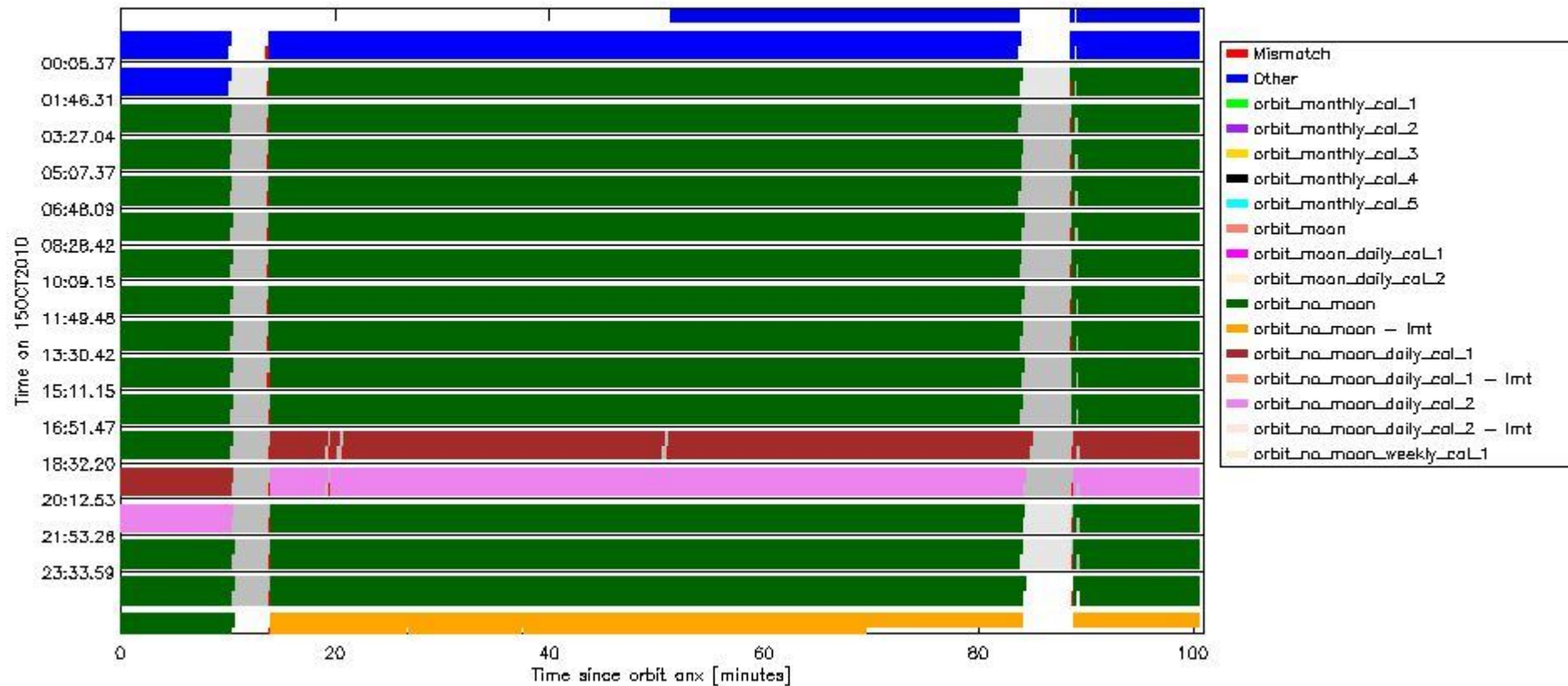


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This section gives an analysis of the DMOP execution. The execution is monitored by assigning various activities to timeline sequences found in the DMOP file, and by checking where "NEW" datasets are available in SCI\_NL\_\_1P products.

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 15OCT2010.  
 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\_20101015\_6.PNG

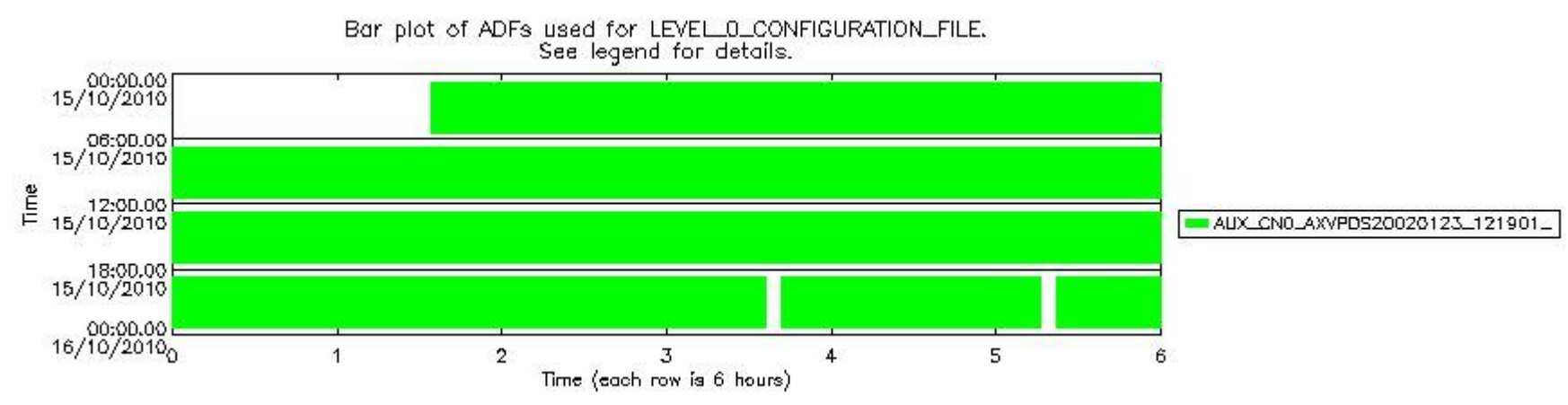
## 0.4 ADF monitoring

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

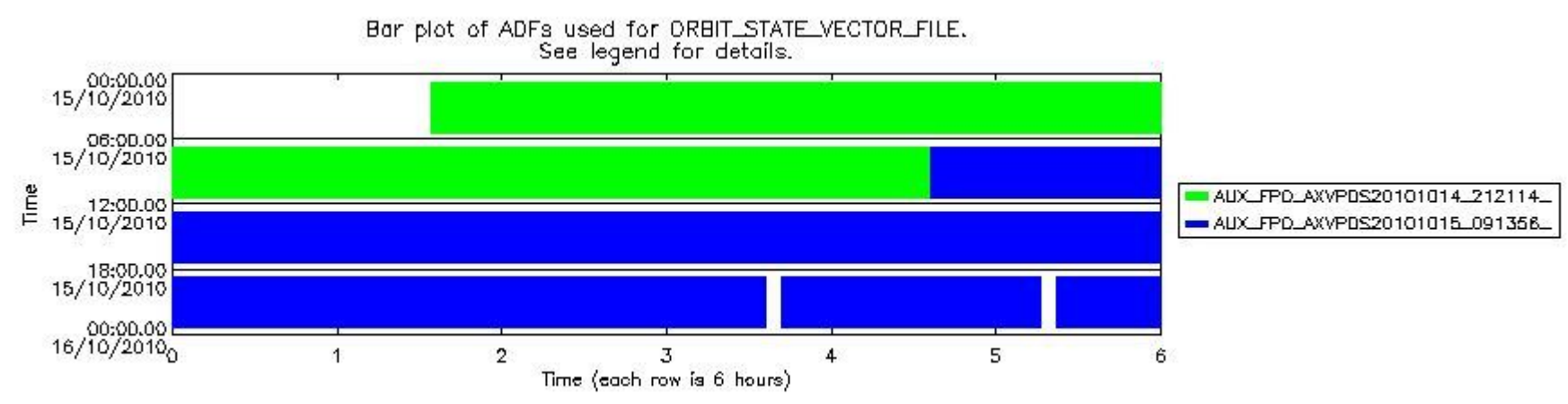
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

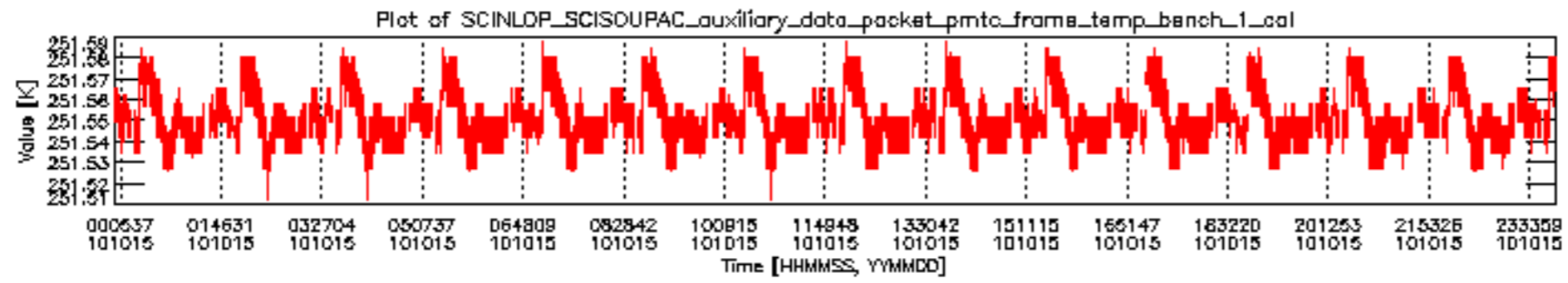
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20101014_212114_20101014_090020_20101023_192108</b>
2	<b>AUX_FPO_AXVPDS20101015_091356_20101014_190356_20101024_203007</b>



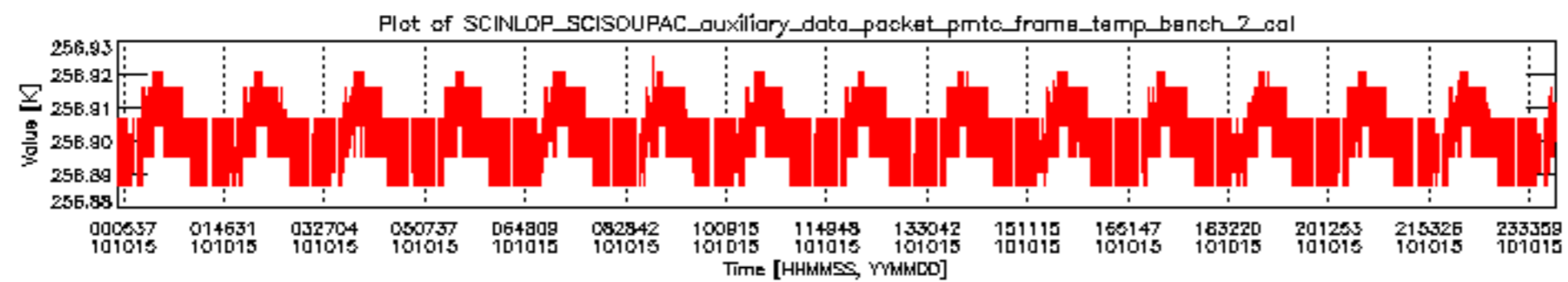
sciamachy\_daily\_report\_level0\_Any\_version\_20101015\_7.PNG

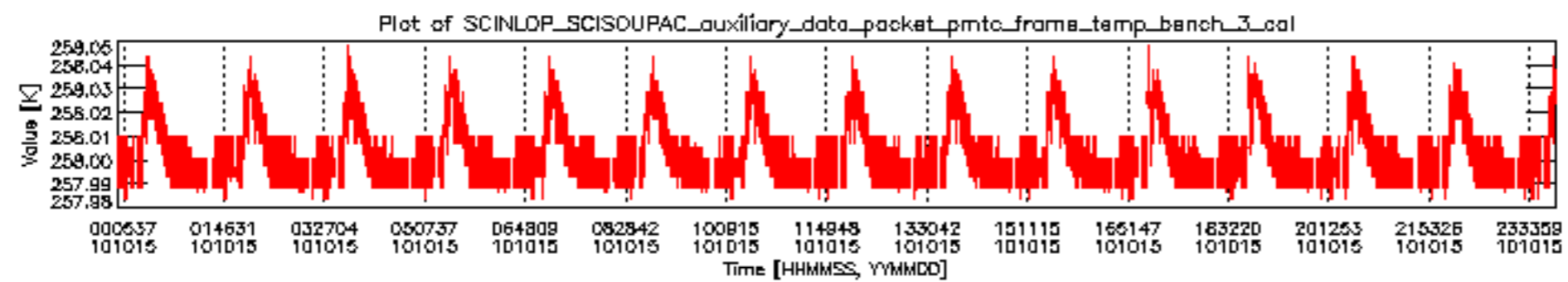


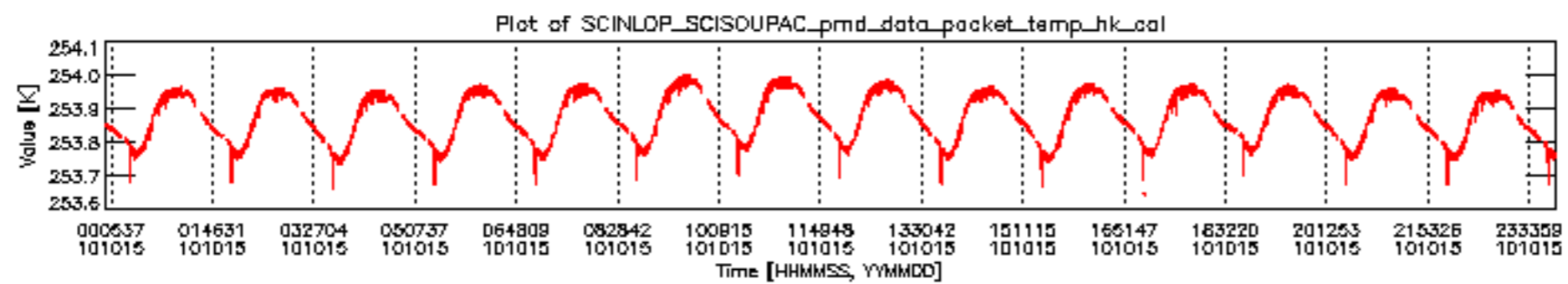
sciamachy\_daily\_report\_level0\_Any\_version\_20101015\_8.PNG

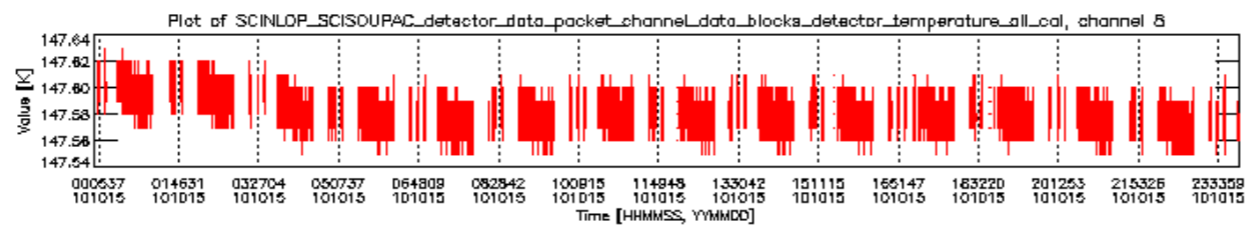
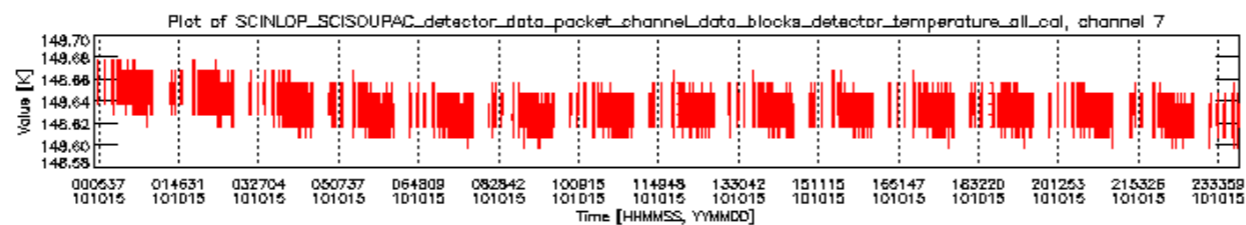
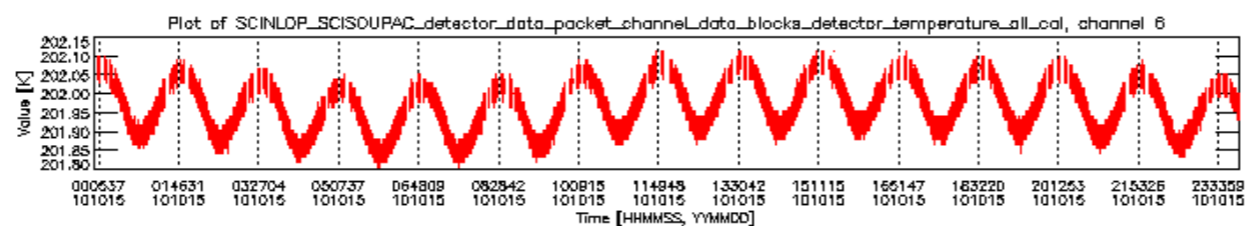
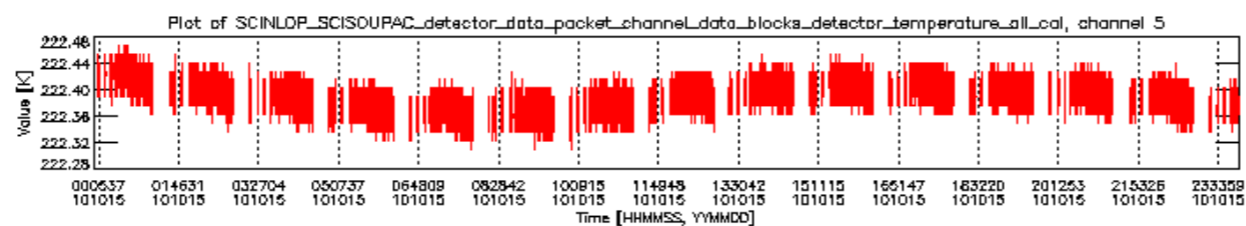
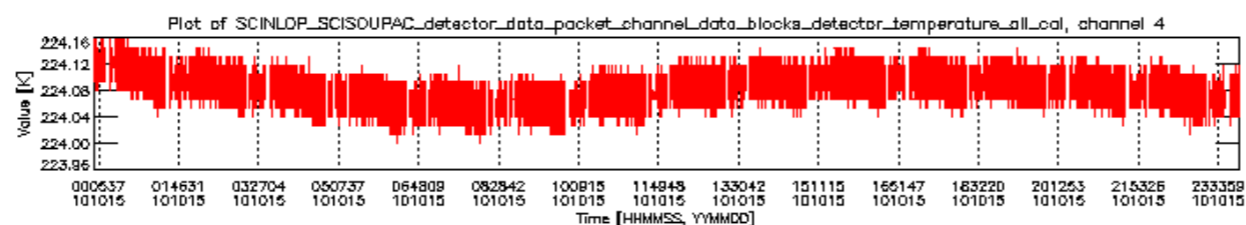
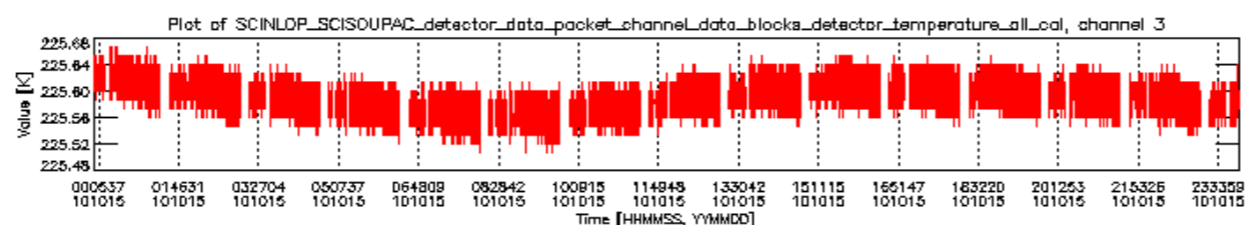
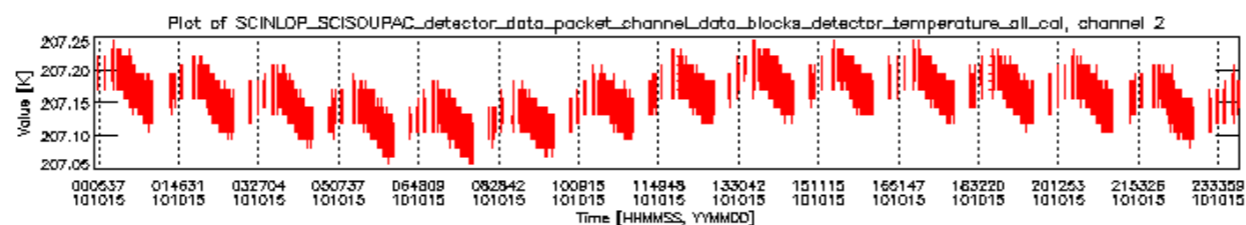
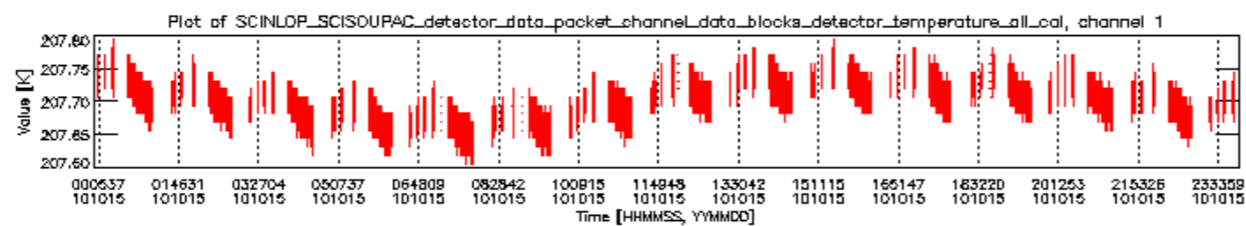


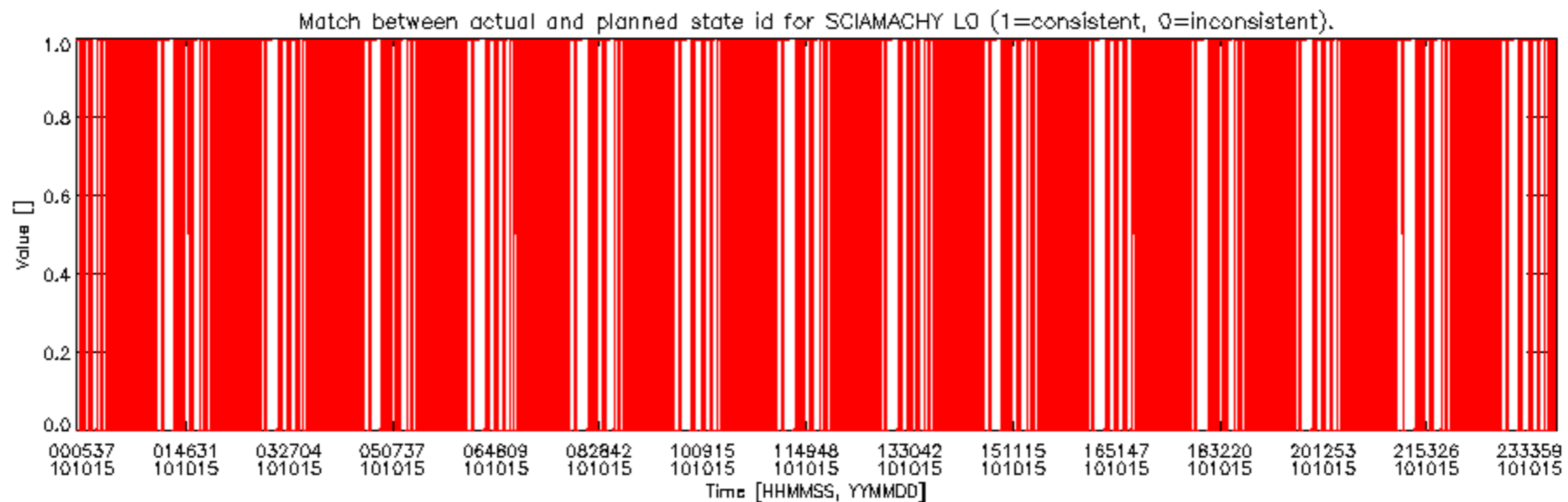
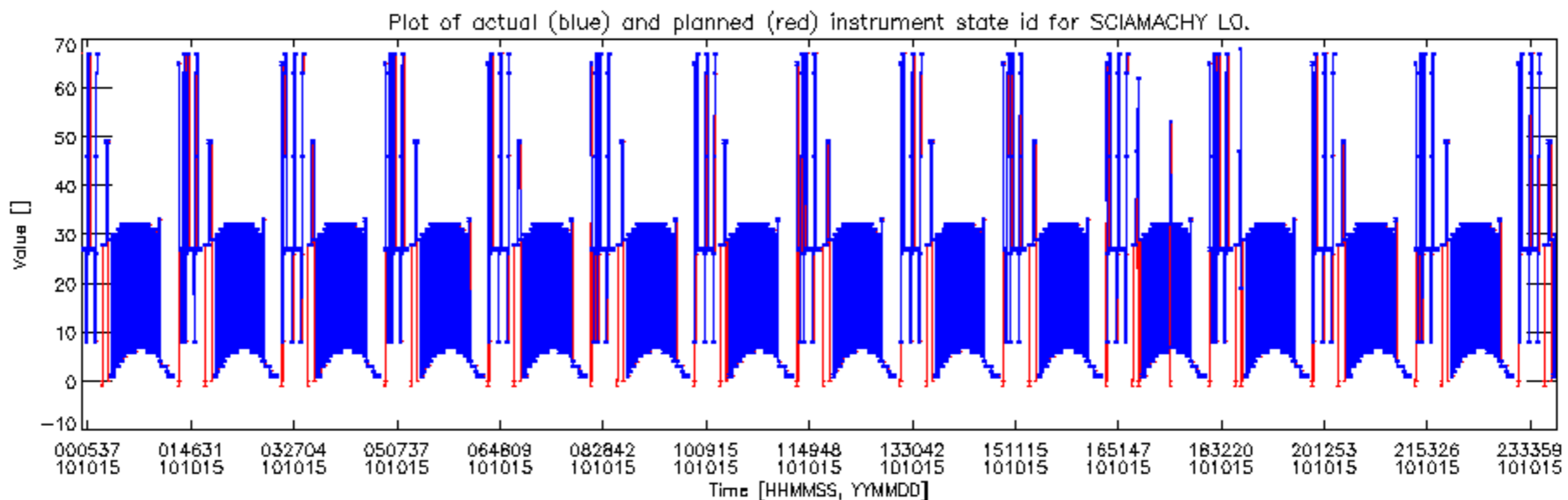




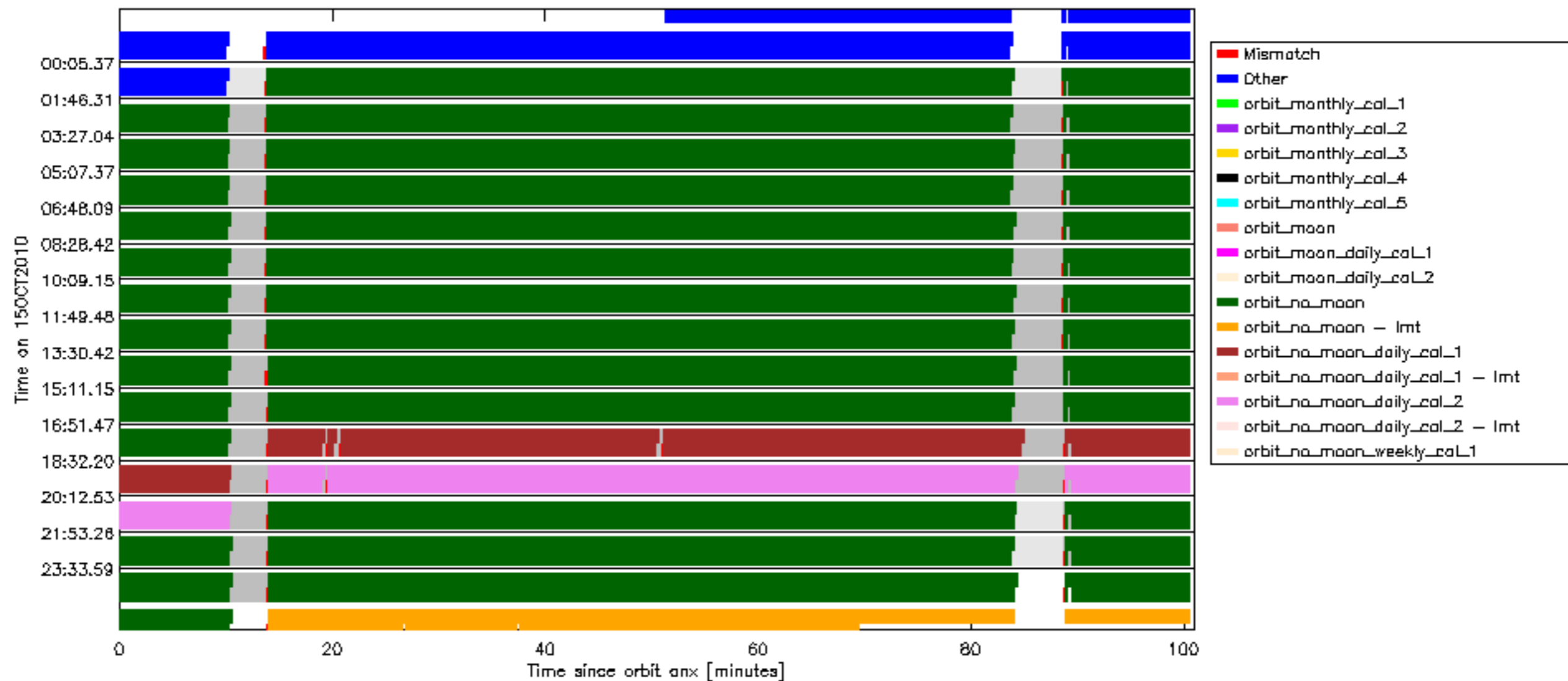


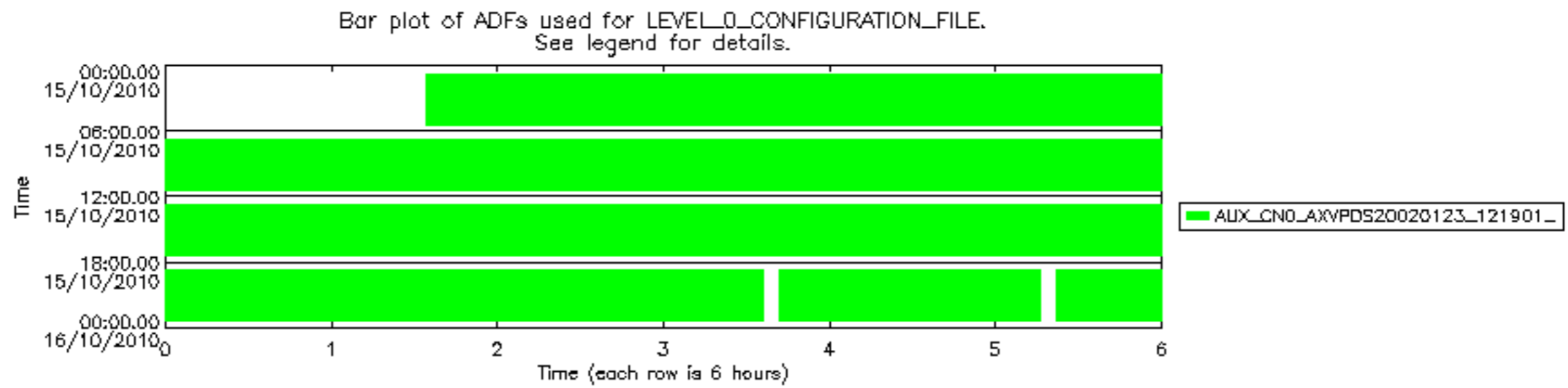


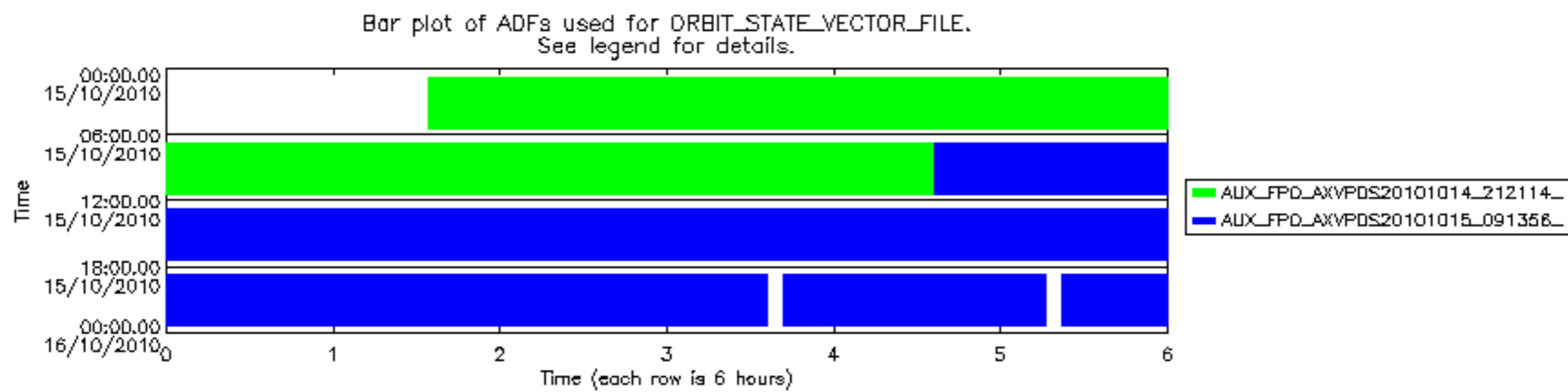




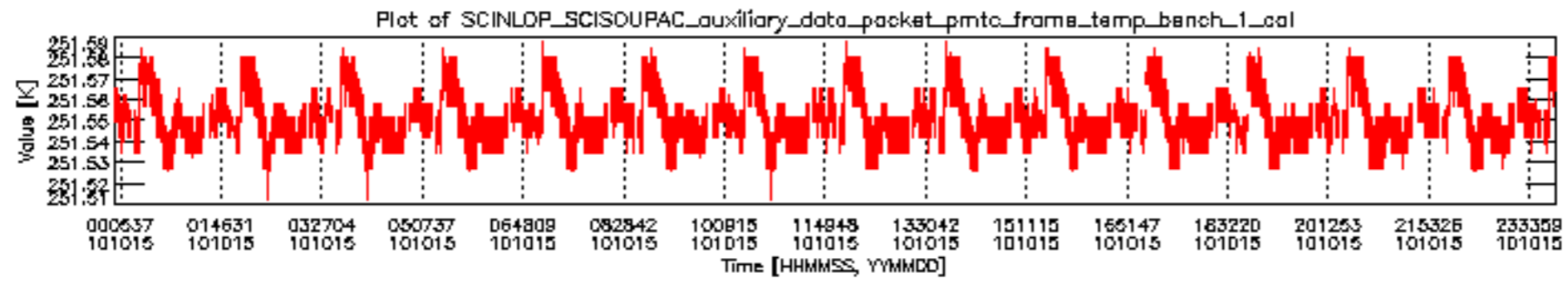
Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 15OCT2010.  
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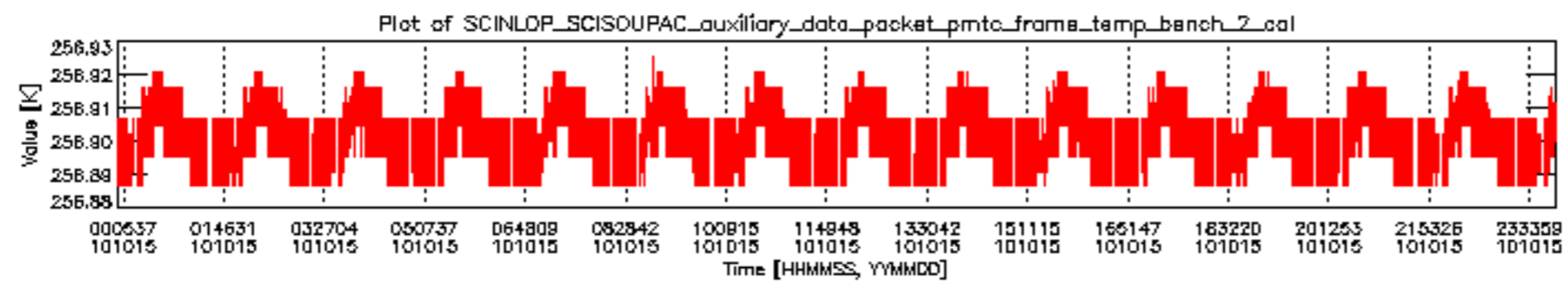


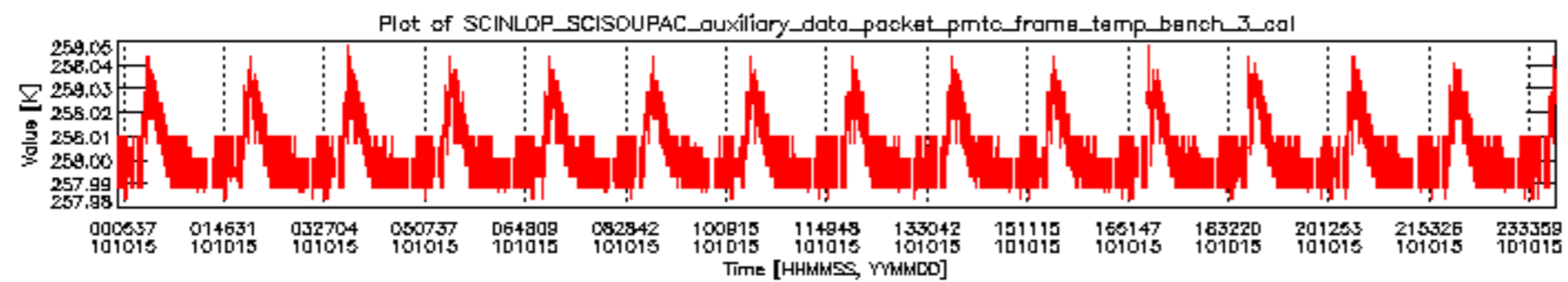


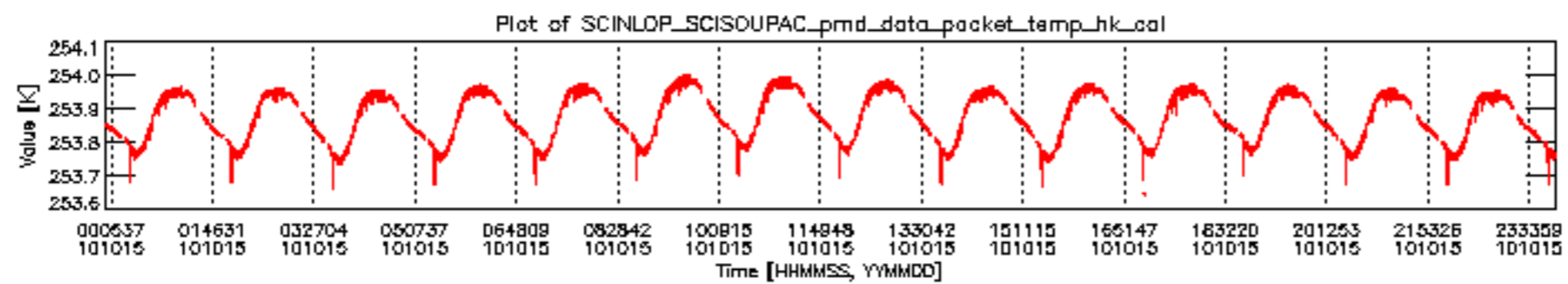


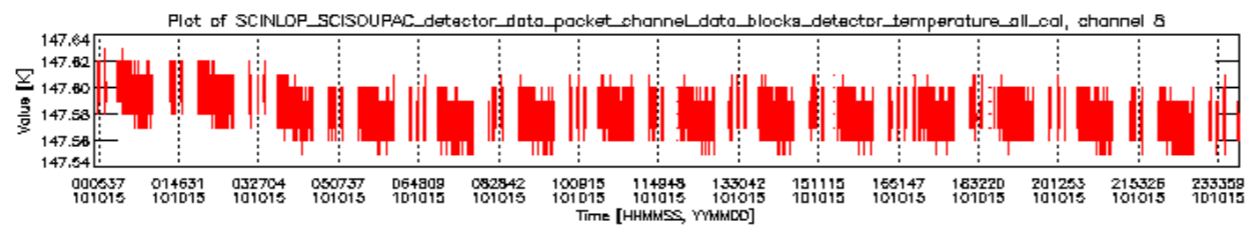
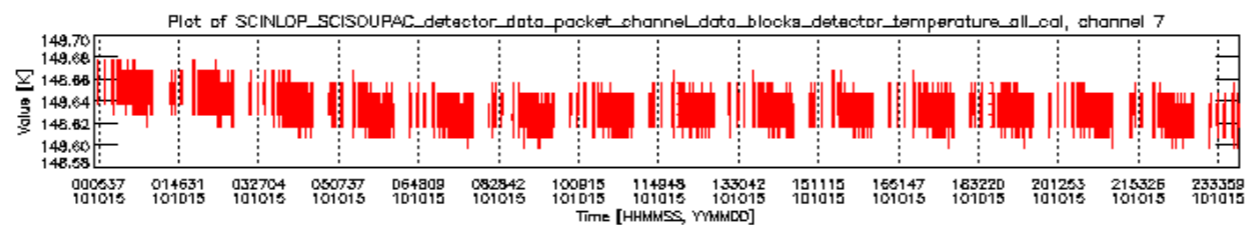
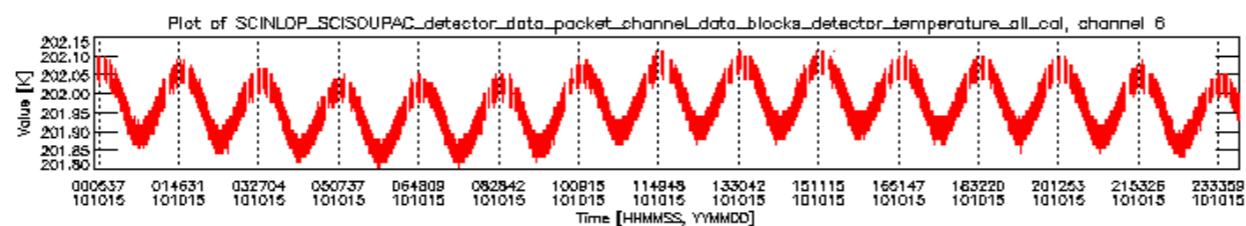
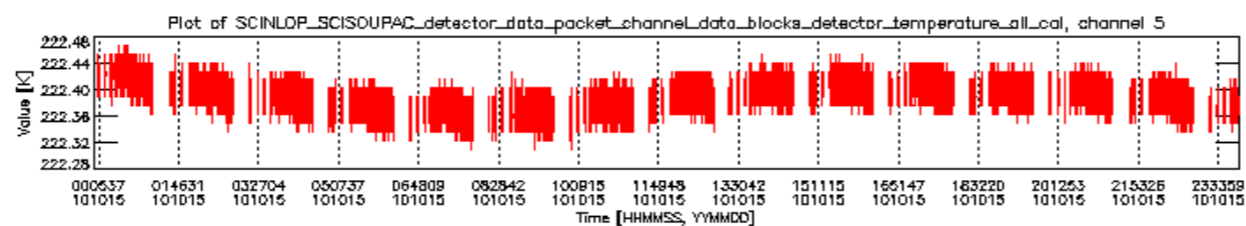
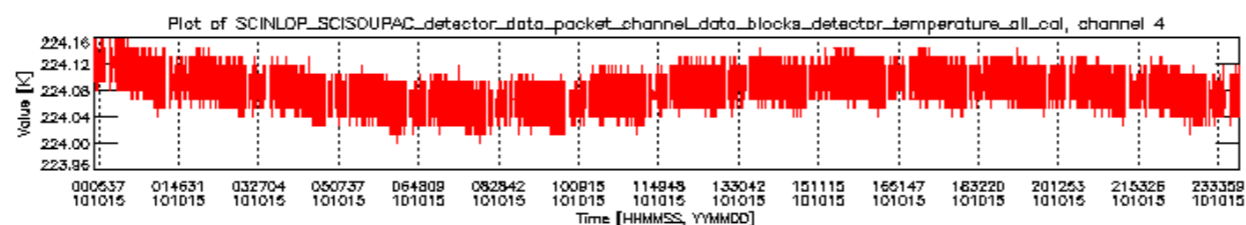
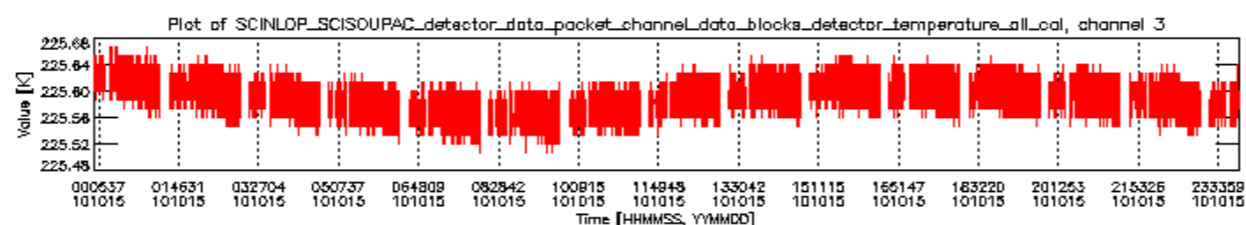
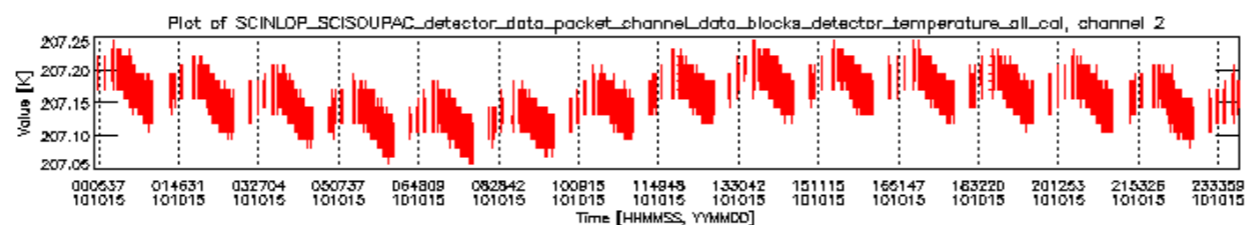
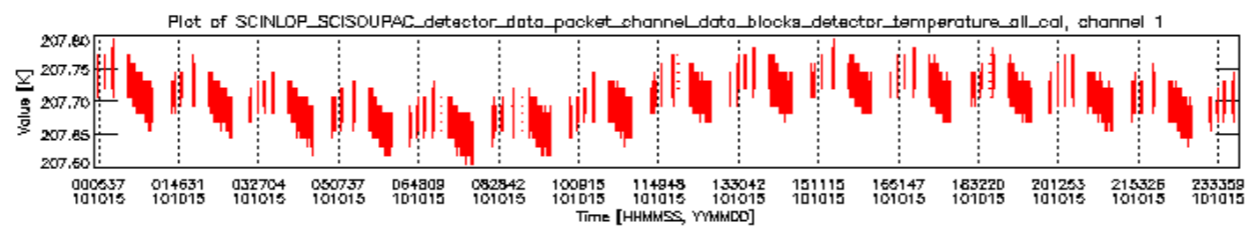


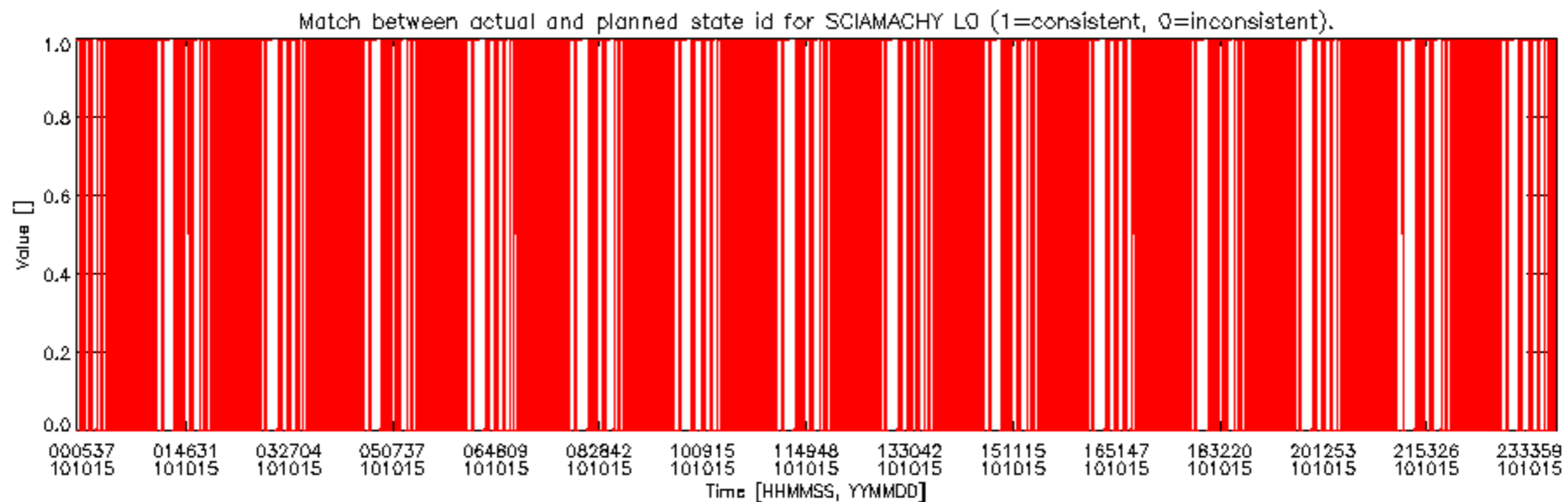
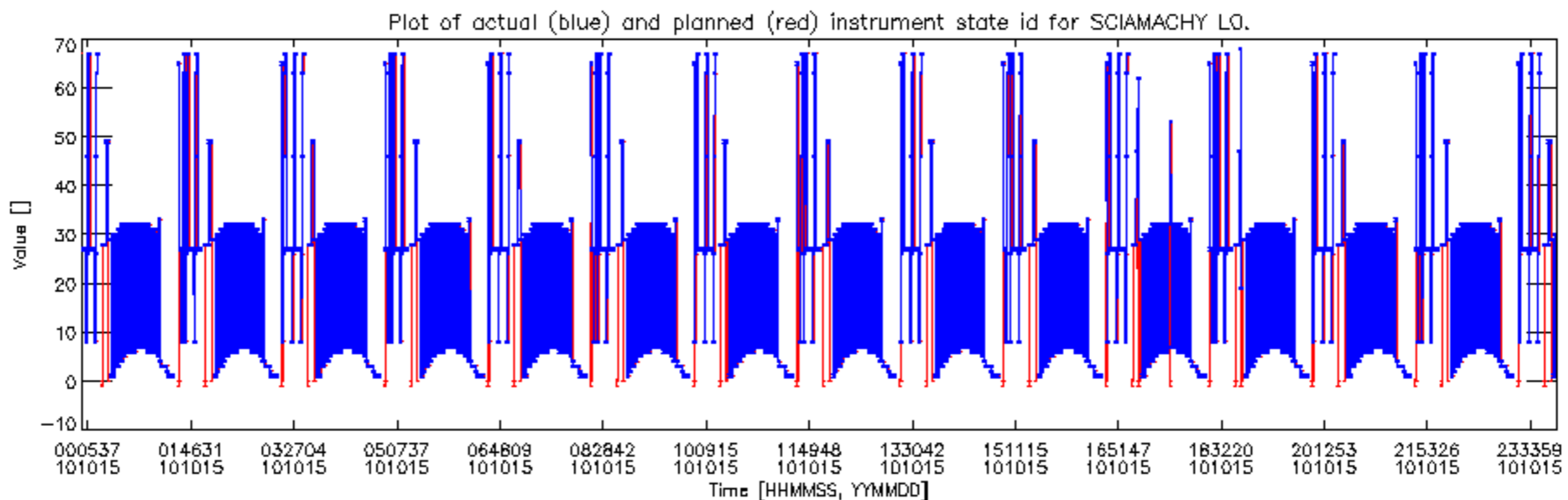




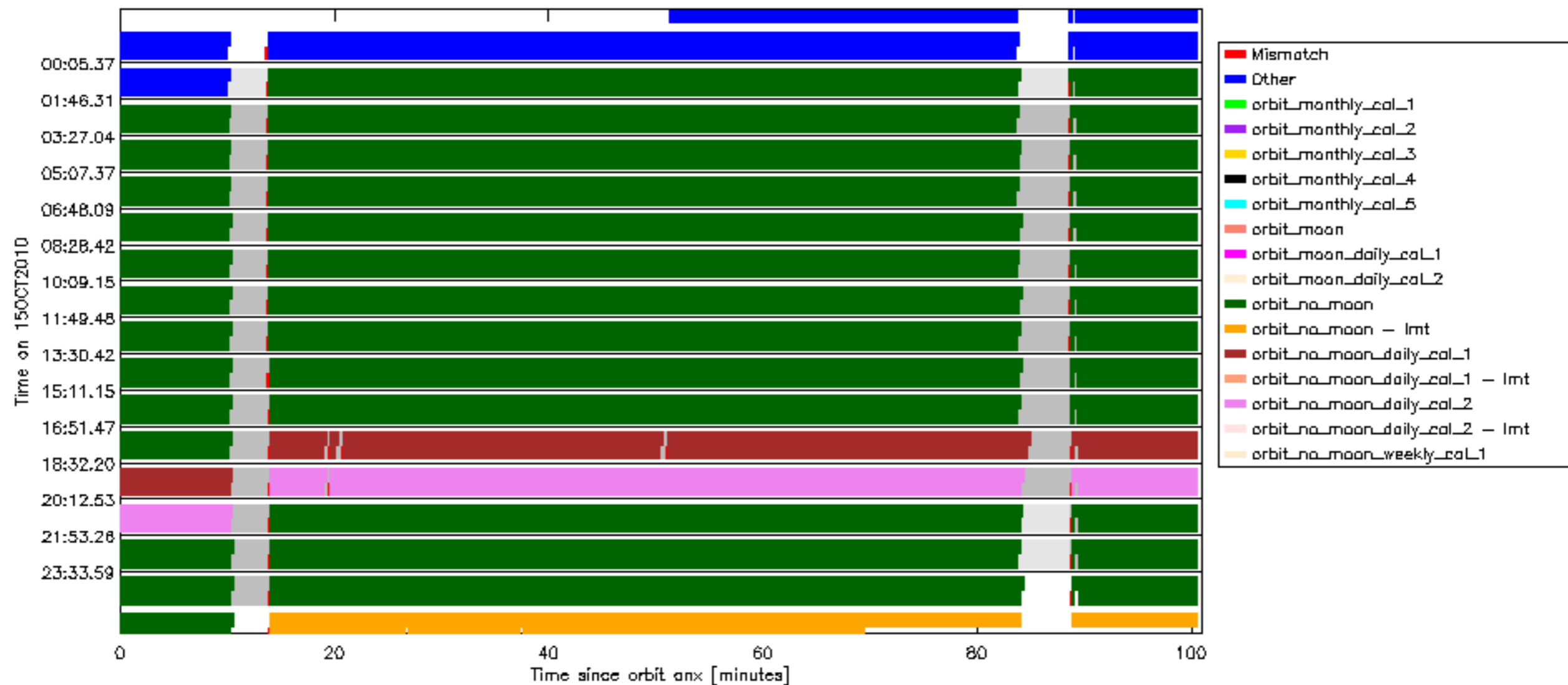


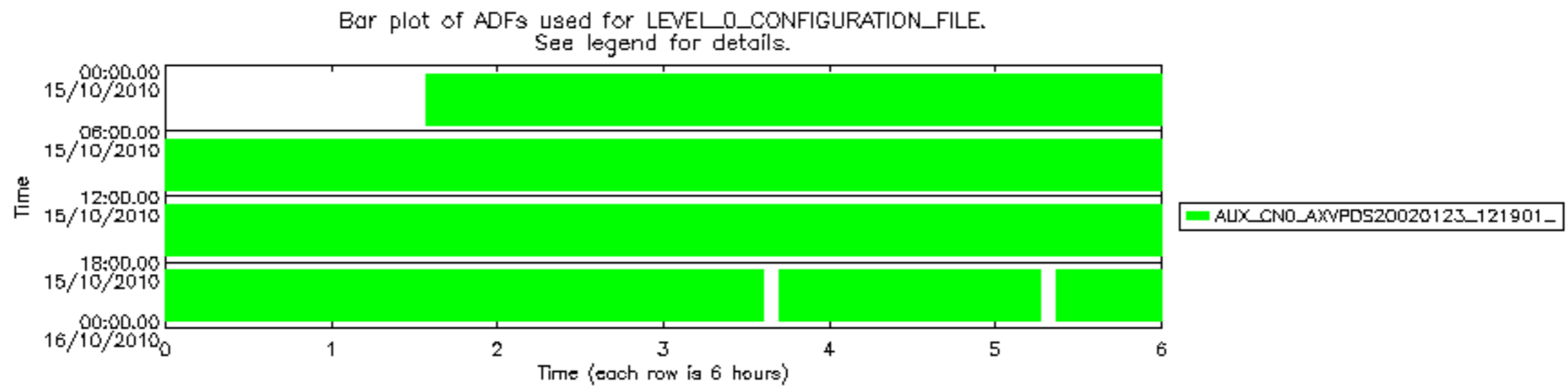






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

