

## 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	08SEP2011 03:09:59
Data source version	KSPT_L0/4504-N
Processing scope for products	01SEP2011 00:00:00 to 02SEP2011 00:00:00
Start time of first product within scope	01SEP2011 01:17:30
Stop time of last product within scope	02SEP2011 00:43:05
Total number of Level 0 products	13
Number of Level 0 products with errors	0

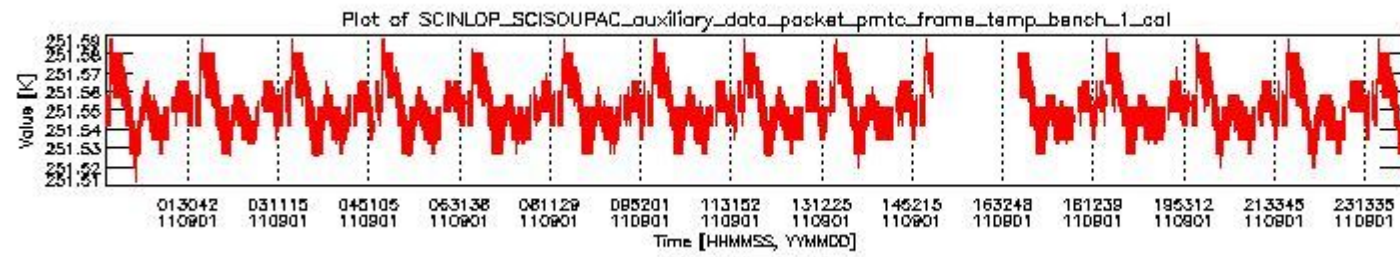
### 0.1.2 Summary per product

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

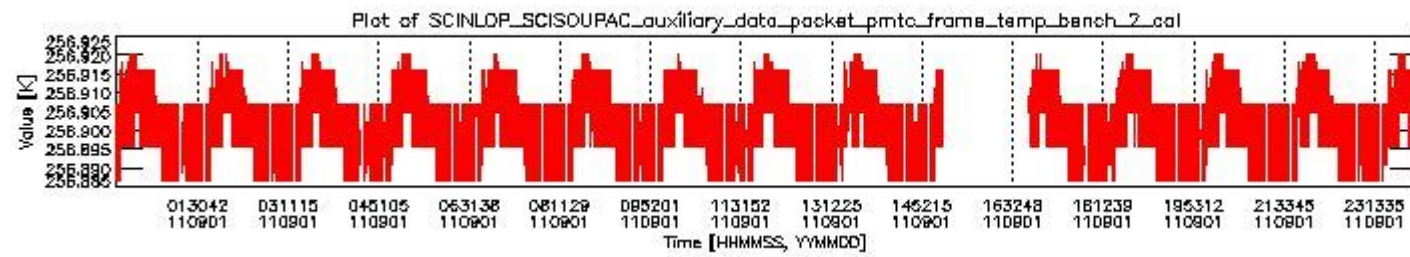
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110901_011730_000103313106_00117_49700_7070.N1	01SEP2011 01:17:30	01SEP2011 04:09:42	0	0	0	0	0
1	SCI_NL__OPNPDE20110901_040833_000062083106_00119_49702_7071.N1	01SEP2011 04:08:33	01SEP2011 05:52:01	0	0	0	0	0
2	SCI_NL__OPNPDE20110901_055201_000061393106_00120_49703_7072.N1	01SEP2011 05:52:01	01SEP2011 07:34:20	0	0	0	0	0
3	SCI_NL__OPNPDK20110901_073420_000038993106_00121_49704_5569.N1	01SEP2011 07:34:20	01SEP2011 08:39:19	0	0	0	0	0
4	SCI_NL__OPNPDK20110901_083919_000061393106_00122_49705_5570.N1	01SEP2011 08:39:19	01SEP2011 10:21:37	0	0	0	0	0
5	SCI_NL__OPNPDK20110901_102029_000059583106_00123_49706_5571.N1	01SEP2011 10:20:29	01SEP2011 11:59:47	0	0	0	0	0
6	SCI_NL__OPNPDK20110901_115852_000059463106_00124_49707_5572.N1	01SEP2011 11:58:52	01SEP2011 13:37:57	0	0	0	0	0
7	SCI_NL__OPNPDK20110901_133649_000058343106_00125_49708_5573.N1	01SEP2011 13:36:49	01SEP2011 15:14:03	0	0	0	0	0
8	SCI_NL__OPNPDK20110901_165104_000059713106_00127_49710_5575.N1	01SEP2011 16:51:04	01SEP2011 18:30:36	0	0	0	0	0
9	SCI_NL__OPNPDK20110901_182940_000059033106_00128_49711_5576.N1	01SEP2011 18:29:40	01SEP2011 20:08:03	0	0	0	0	0
10	SCI_NL__OPNPDE20110901_200652_000045003106_00129_49712_7073.N1	01SEP2011 20:06:52	01SEP2011 21:21:52	0	0	0	0	0
11	SCI_NL__OPNPDE20110901_211900_000062303106_00129_49712_7074.N1	01SEP2011 21:19:00	01SEP2011 23:02:51	0	0	0	0	0
12	SCI_NL__OPNPDE20110901_230127_000060983106_00130_49713_7075.N1	01SEP2011 23:01:27	02SEP2011 00:43:05	0	0	0	0	0

## 0.2 Product Quality Indicators

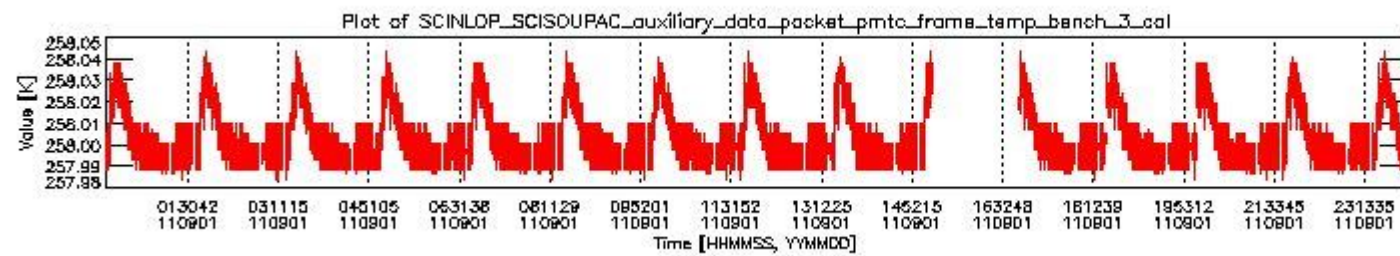
This section shows information about product quality, currently temperatures.



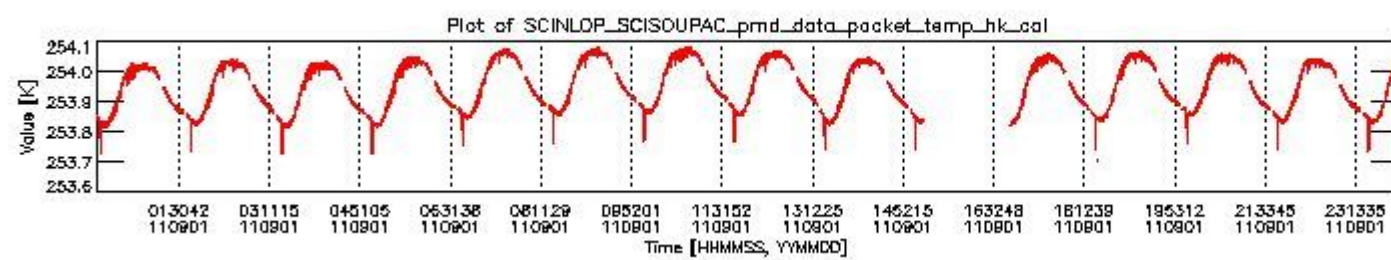
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110901\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110901\_1.PNG

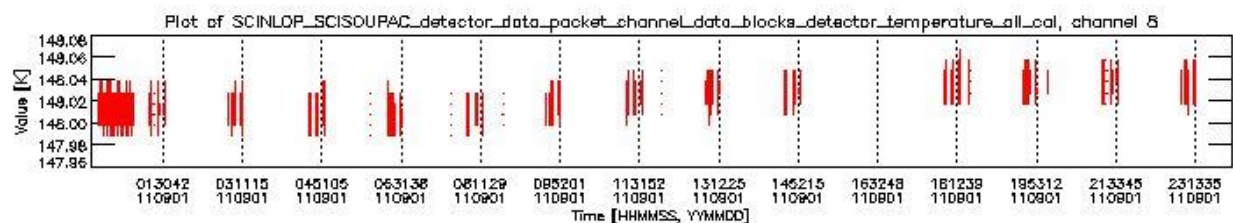
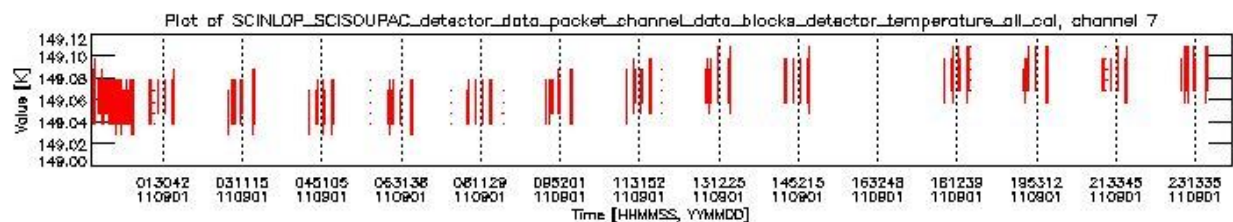
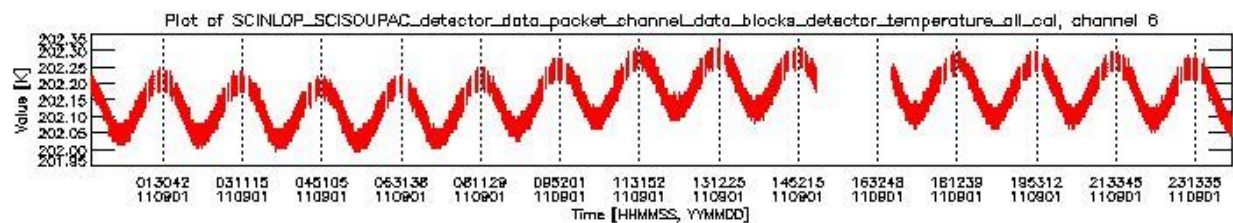
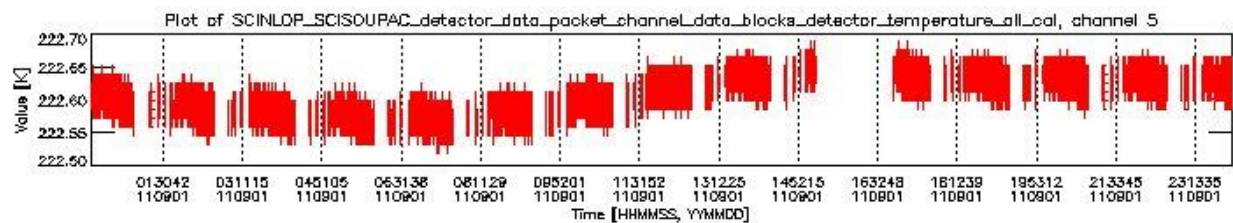
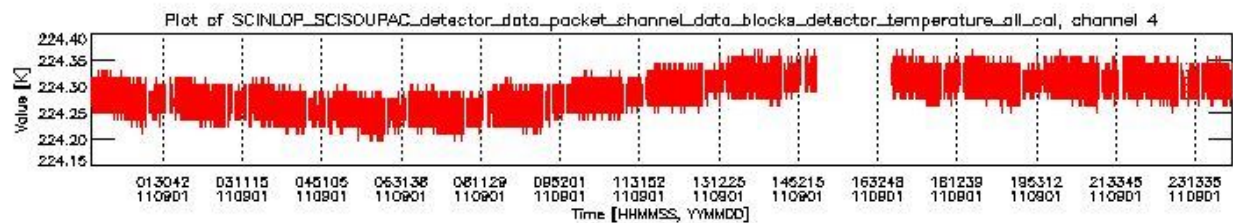
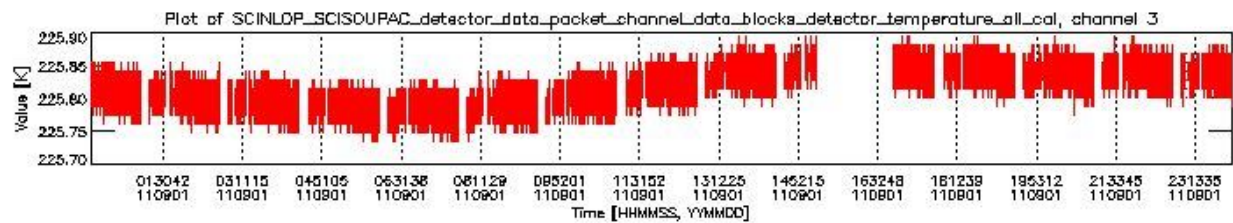
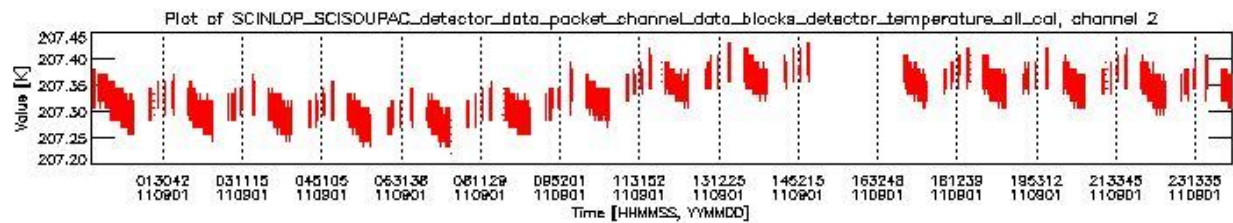
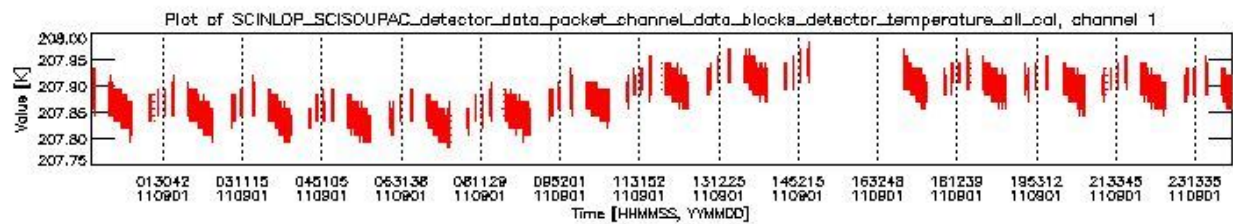


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110901\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110901\_3.PNG



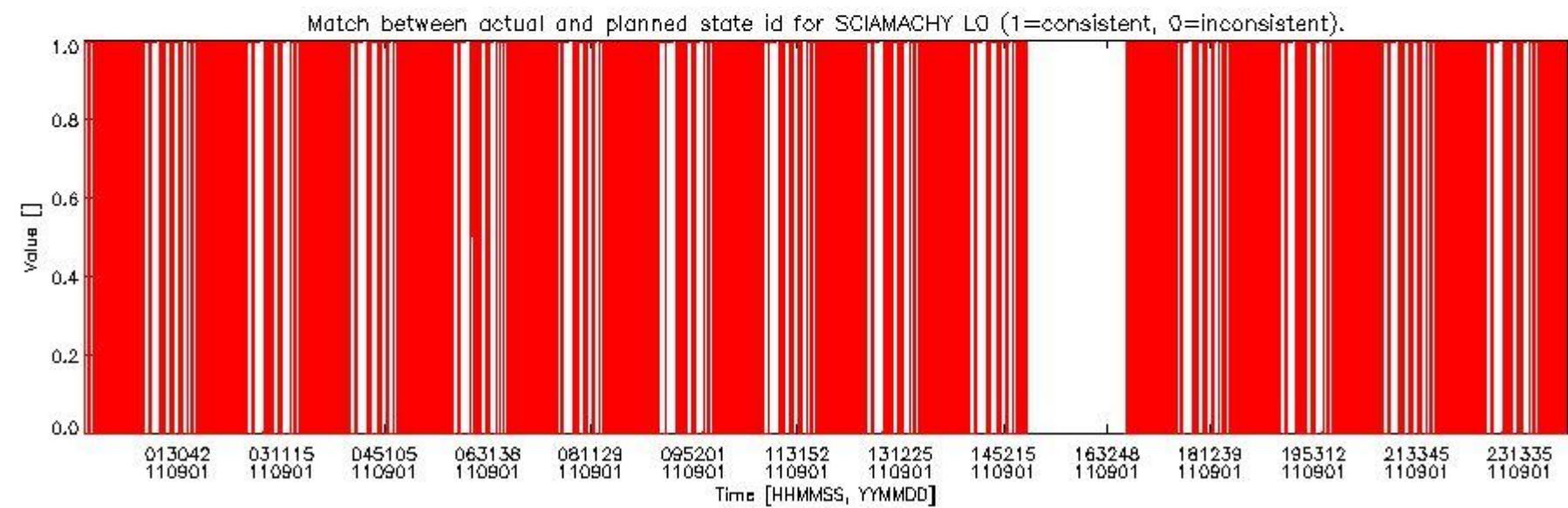
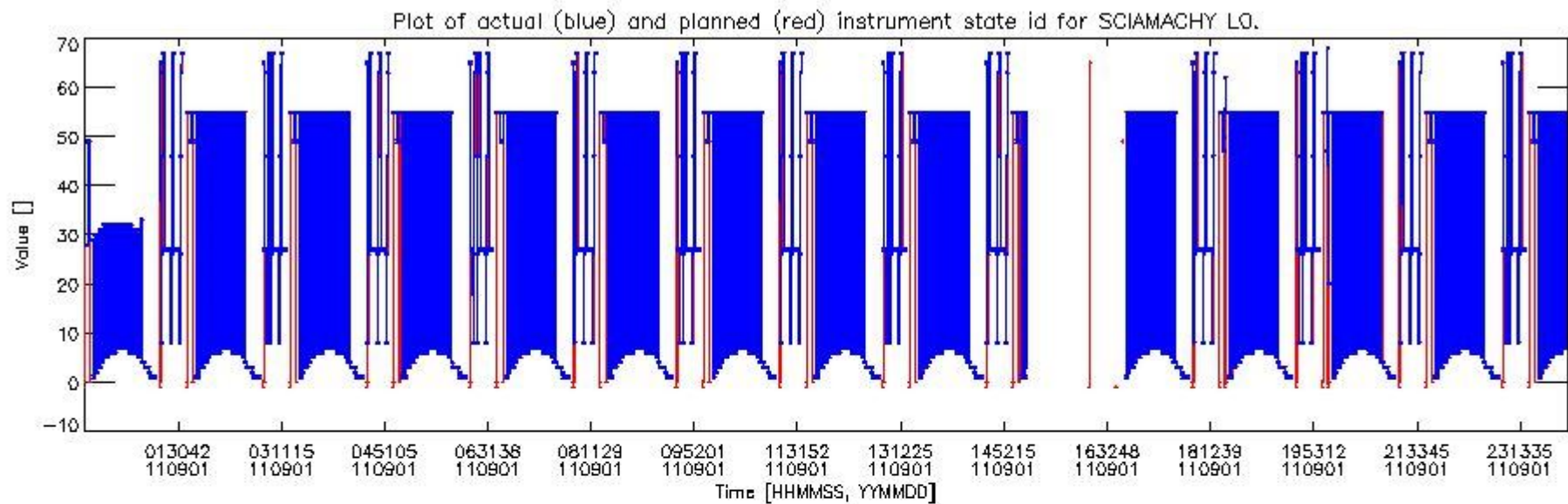


### 0.3 State monitoring

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: **58902**

#	Actual time	Actual value	Planned time	Planned value
0	01SEP2011 00:02:39.185417	49	01SEP2011 00:02:39.185417	28
1	01SEP2011 00:02:39.372917	49	01SEP2011 00:02:39.372917	28
2	01SEP2011 00:02:39.435417	49	01SEP2011 00:02:39.435417	28
3	01SEP2011 00:02:39.497917	49	01SEP2011 00:02:39.497917	28
4	01SEP2011 00:02:39.560417	49	01SEP2011 00:02:39.560417	28
5	01SEP2011 00:02:39.622917	49	01SEP2011 00:02:39.622917	28
6	01SEP2011 00:02:39.685417	49	01SEP2011 00:02:39.685417	28
7	01SEP2011 00:02:39.747917	49	01SEP2011 00:02:39.747917	28
8	01SEP2011 00:02:39.810417	49	01SEP2011 00:02:39.810417	28
9	01SEP2011 00:02:39.872917	49	01SEP2011 00:02:39.872917	28
10	01SEP2011 00:02:39.935417	49	01SEP2011 00:02:39.935417	28
11	01SEP2011 00:02:39.997917	49	01SEP2011 00:02:39.997917	28
12	01SEP2011 00:02:40.060417	49	01SEP2011 00:02:40.060417	28
13	01SEP2011 00:02:40.122917	49	01SEP2011 00:02:40.122917	28
14	01SEP2011 00:02:40.185417	49	01SEP2011 00:02:40.185417	28
15	01SEP2011 00:02:40.247917	49	01SEP2011 00:02:40.247917	28
16	01SEP2011 00:02:40.310417	49	01SEP2011 00:02:40.310417	28
17	01SEP2011 00:02:40.372917	49	01SEP2011 00:02:40.372917	28
18	01SEP2011 00:02:40.435417	49	01SEP2011 00:02:40.435417	28
19	01SEP2011 00:02:40.497917	49	01SEP2011 00:02:40.497917	28
	...	...	...	...



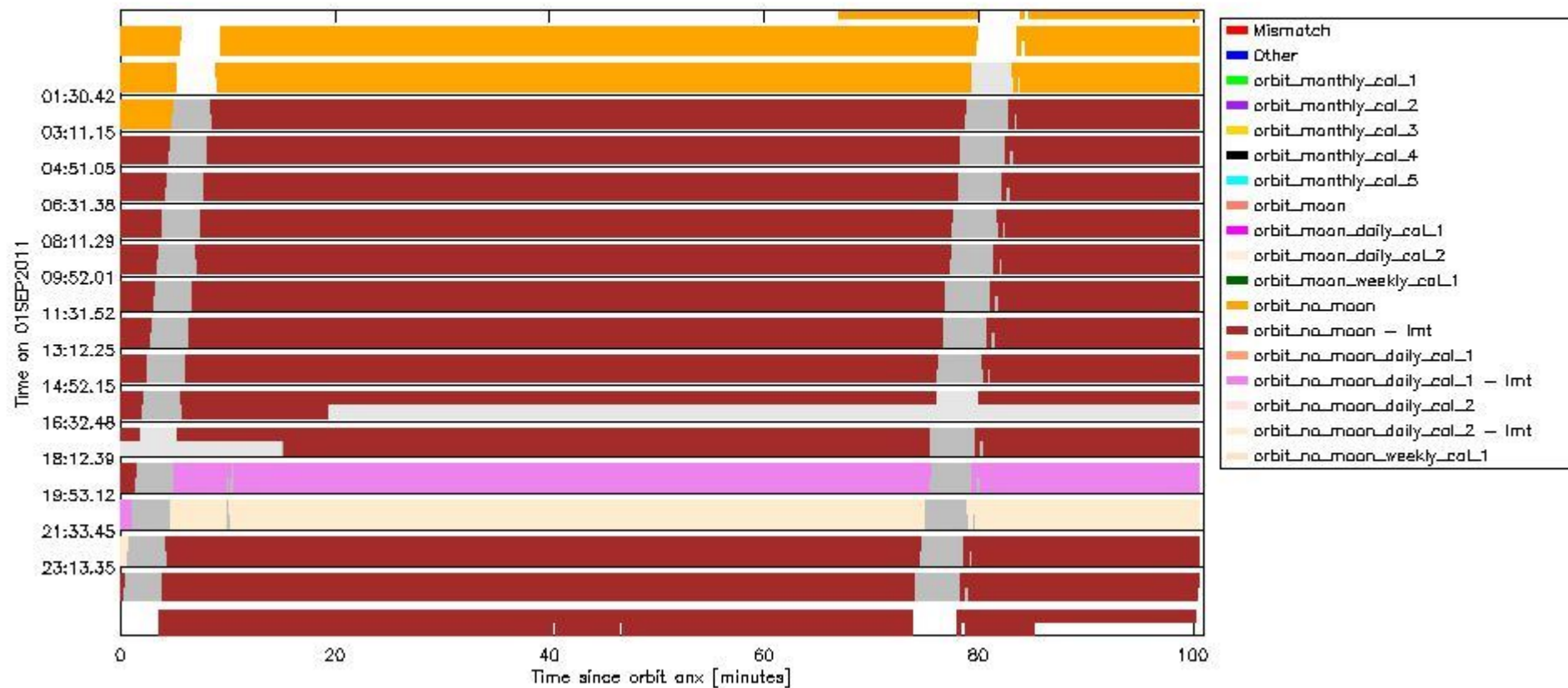
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110901\_5.PNG

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 01SEP2011.  
 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\_20110901\_6.PNG

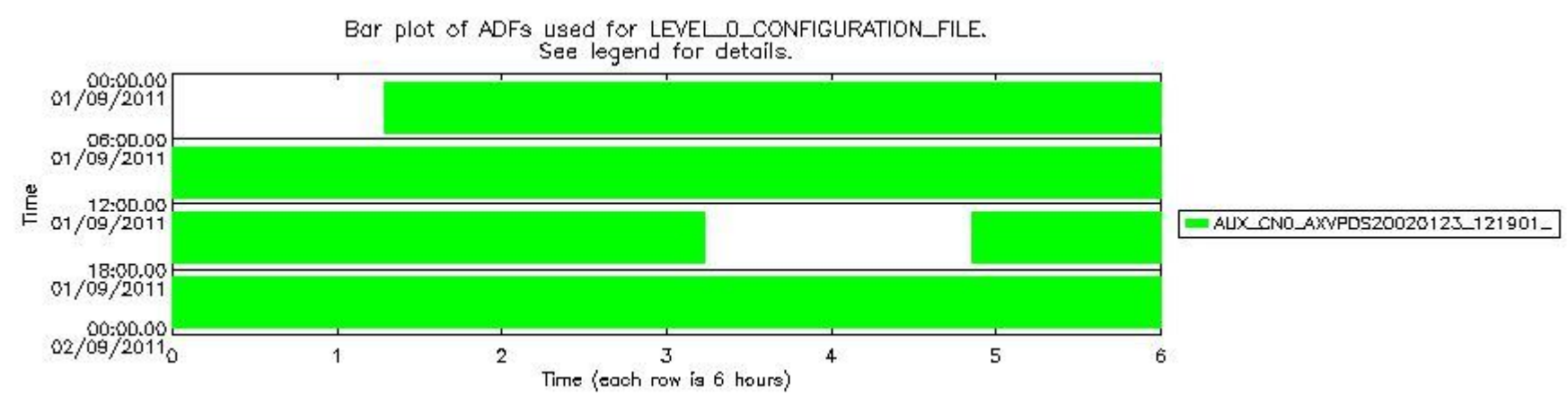
## 0.4 ADF monitoring

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

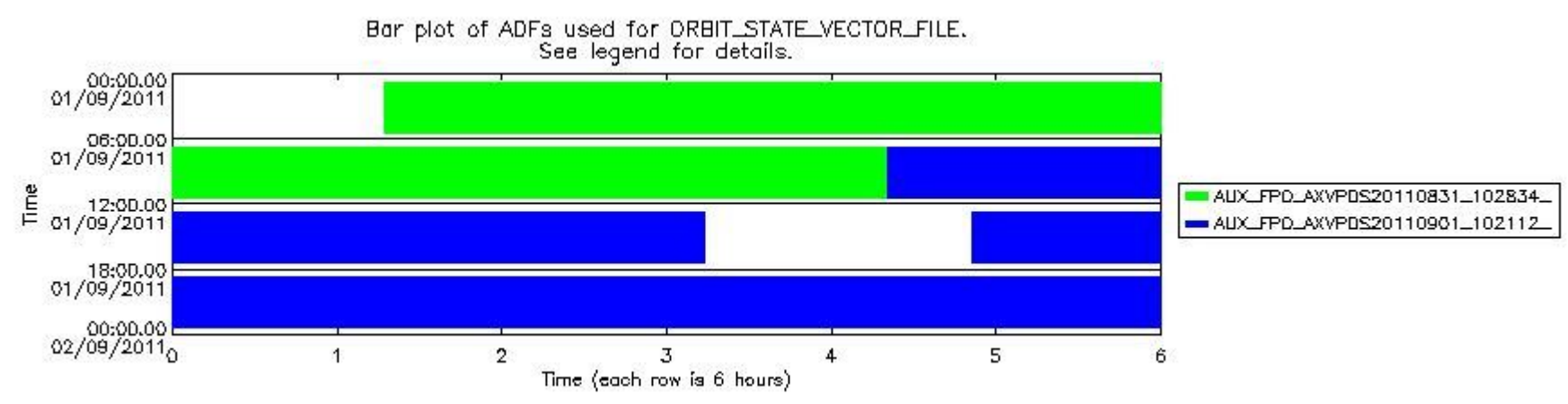
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

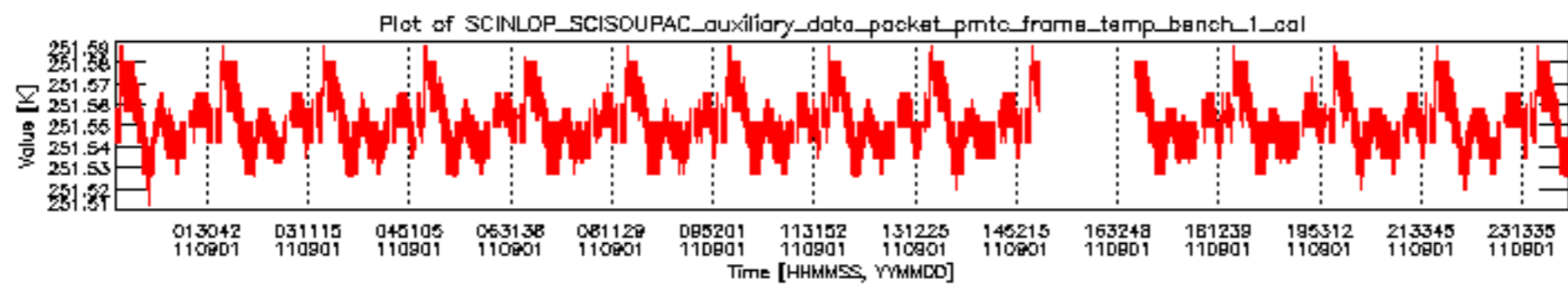
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110831_102834_20110830_192629_20110909_214013
2	AUX_FPO_AXVPDS20110901_102112_20110831_184944_20110910_210329



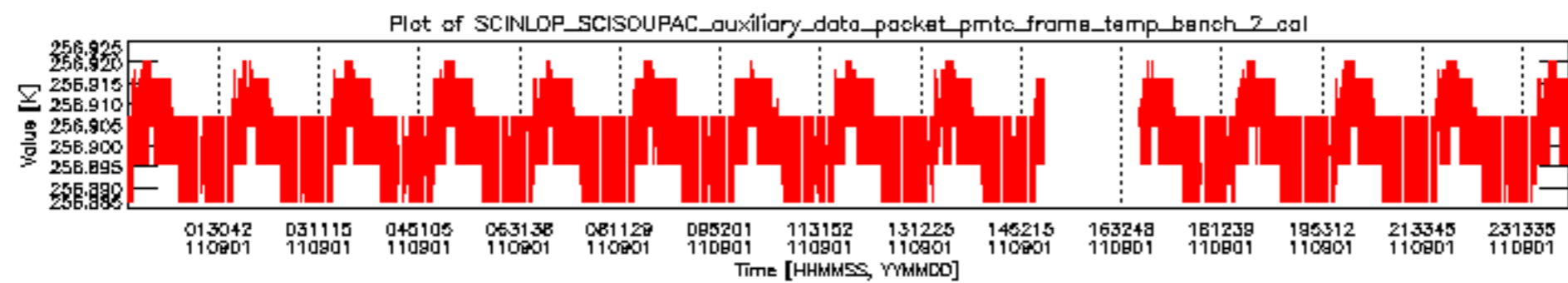
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110901\_7.PNG

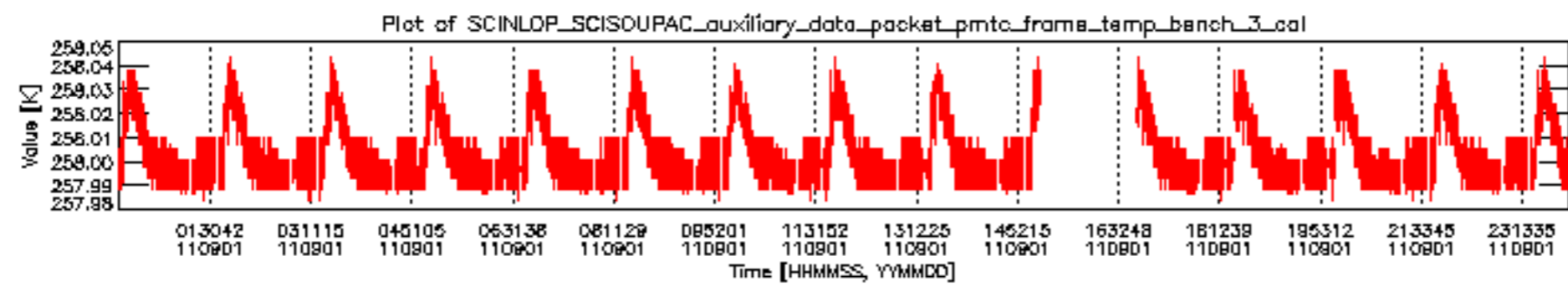


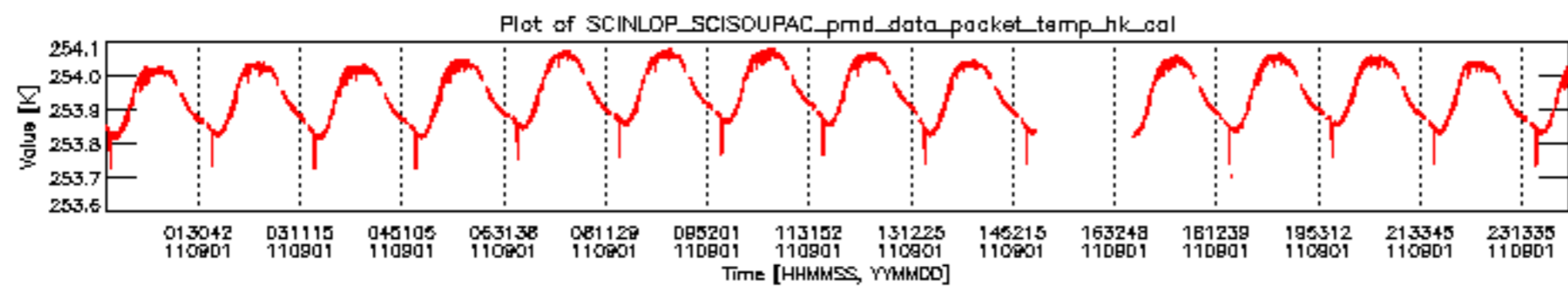
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110901\_8.PNG

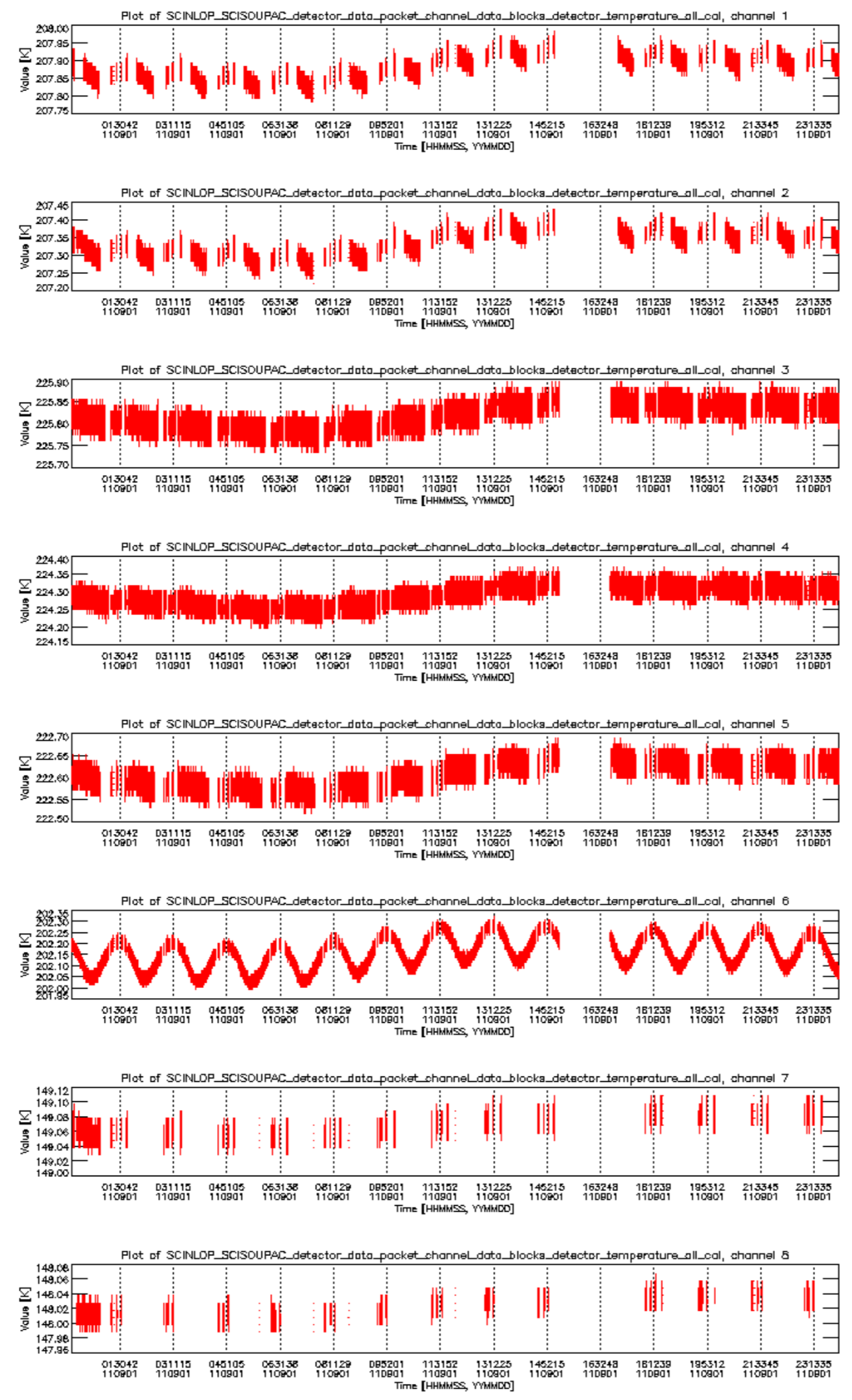




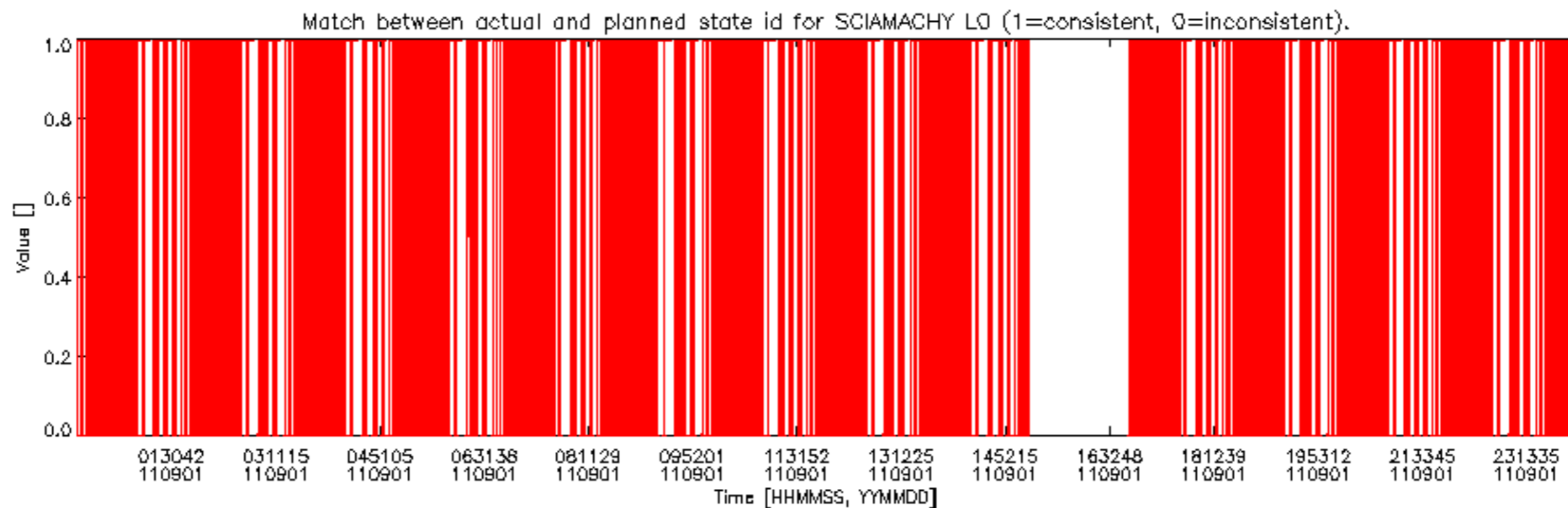
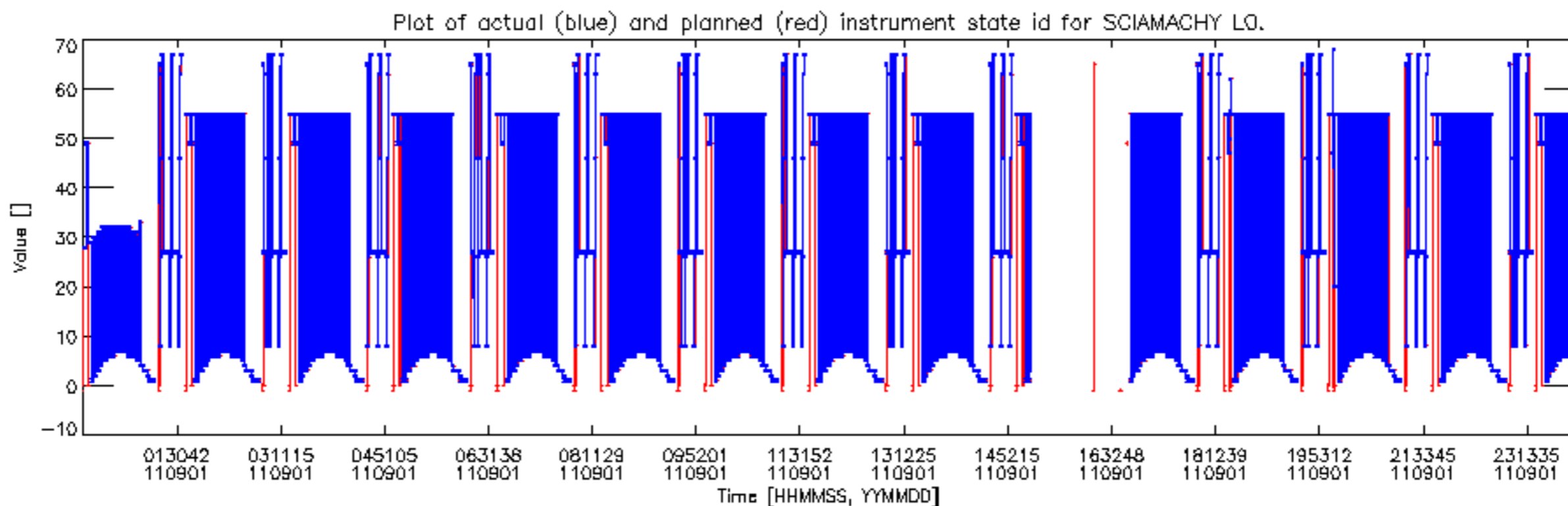












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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