

## 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	11SEP2011 03:06:50
Data source version	KSPT_L0/4504-N
Processing scope for products	04SEP2011 00:00:00 to 05SEP2011 00:00:00
Start time of first product within scope	04SEP2011 01:08:41
Stop time of last product within scope	05SEP2011 00:33:27
Total number of Level 0 products	14
Number of Level 0 products with errors	1

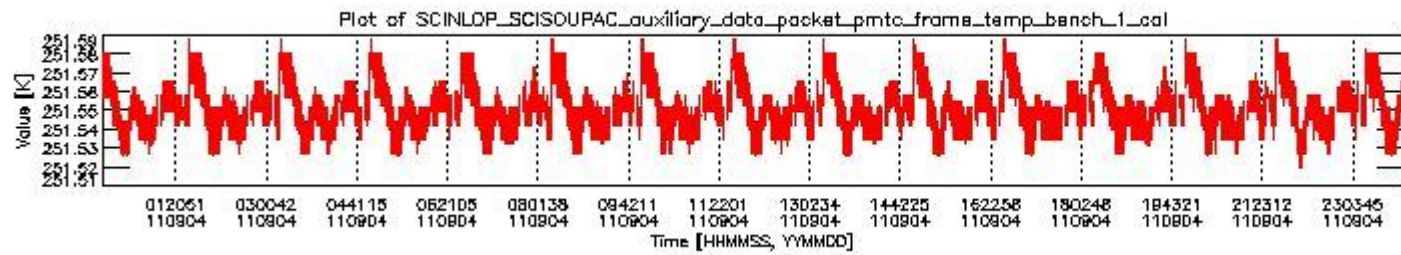
### 0.1.2 Summary per product

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

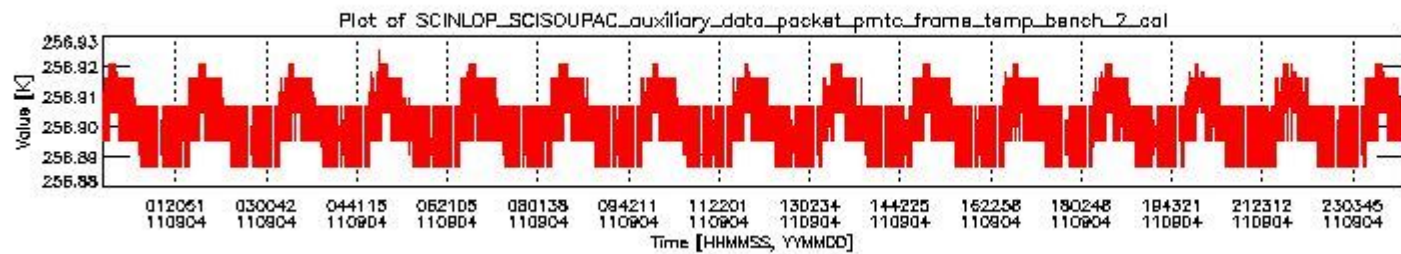
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110904_010841_000102433106_00160_49743_7089.N1	04SEP2011 01:08:41	04SEP2011 03:59:24	0	0	0	0	0
1	SCI_NL__OPNPDE20110904_035830_000062463106_00162_49745_7090.N1	04SEP2011 03:58:30	04SEP2011 05:42:35	0	0	0	0	0
2	SCI_NL__OPNPDE20110904_054141_000060833106_00163_49746_7091.N1	04SEP2011 05:41:41	04SEP2011 07:23:04	0	0	0	0	0
3	SCI_NL__OPNPDK20110904_072304_000039133106_00164_49747_5600.N1	04SEP2011 07:23:04	04SEP2011 08:28:18	0	0	0	0	0
4	SCI_NL__OPNPDK20110904_082818_000062063106_00165_49748_5601.N1	04SEP2011 08:28:18	04SEP2011 10:11:43	0	0	0	0	0
5	SCI_NL__OPNPDK20110904_101049_000059463106_00166_49749_5602.N1	04SEP2011 10:10:49	04SEP2011 11:49:55	1	1	0	0	0
6	SCI_NL__OPNPDK20110904_114847_000059603106_00167_49750_5603.N1	04SEP2011 11:48:47	04SEP2011 13:28:07	0	0	0	0	0
7	SCI_NL__OPNPDK20110904_132713_000060003106_00168_49751_5604.N1	04SEP2011 13:27:13	04SEP2011 15:07:13	0	0	0	0	0
8	SCI_NL__OPNPDK20110904_150618_000058383106_00169_49752_5605.N1	04SEP2011 15:06:18	04SEP2011 16:43:36	0	0	0	0	0
9	SCI_NL__OPNPDK20110904_164228_000059053106_00170_49753_5606.N1	04SEP2011 16:42:28	04SEP2011 18:20:52	0	0	0	0	0
10	SCI_NL__OPNPDK20110904_181958_000060153106_00171_49754_5607.N1	04SEP2011 18:19:58	04SEP2011 20:00:12	0	0	0	0	0
11	SCI_NL__OPNPDE20110904_195824_000040903106_00172_49755_7092.N1	04SEP2011 19:58:24	04SEP2011 21:06:34	0	0	0	0	0
12	SCI_NL__OPNPDE20110904_210634_000063543106_00172_49755_7093.N1	04SEP2011 21:06:34	04SEP2011 22:52:28	0	0	0	0	0
13	SCI_NL__OPNPDE20110904_225100_000061473106_00173_49756_7094.N1	04SEP2011 22:51:00	05SEP2011 00:33:27	0	0	0	0	0

## 0.2 Product Quality Indicators

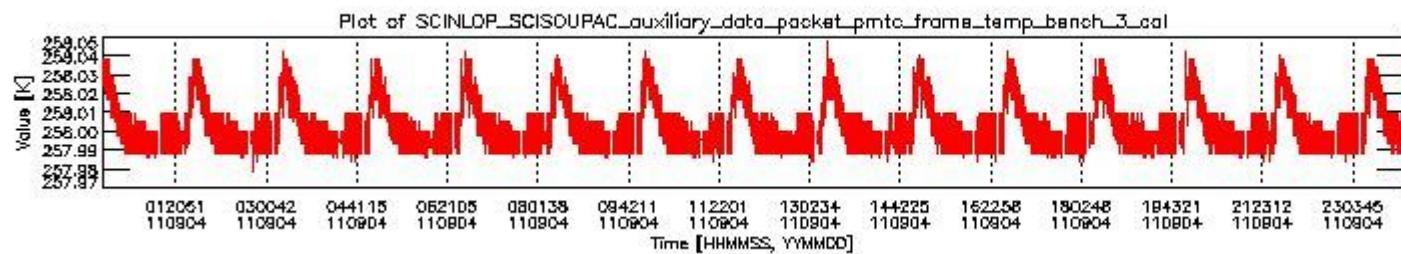
This section shows information about product quality, currently temperatures.



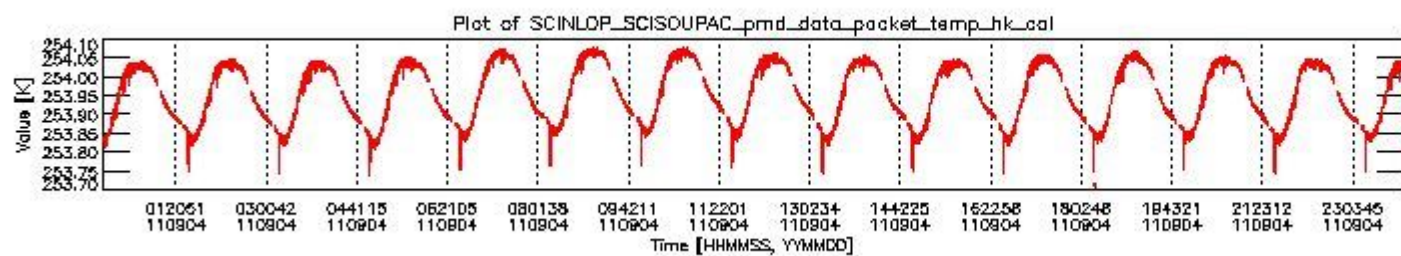
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110904\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110904\_1.PNG

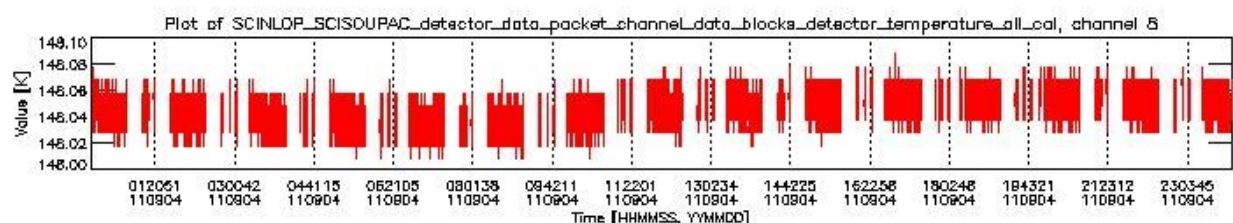
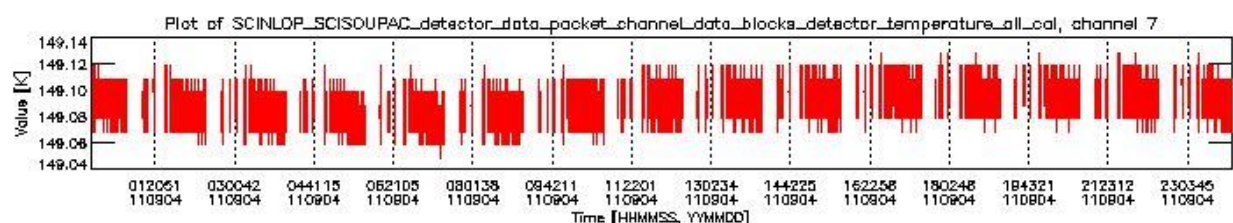
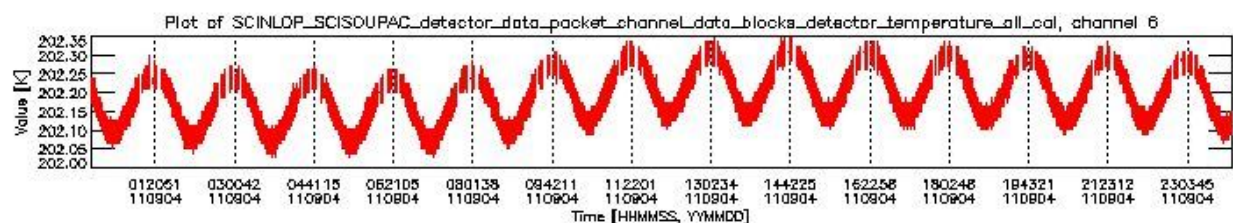
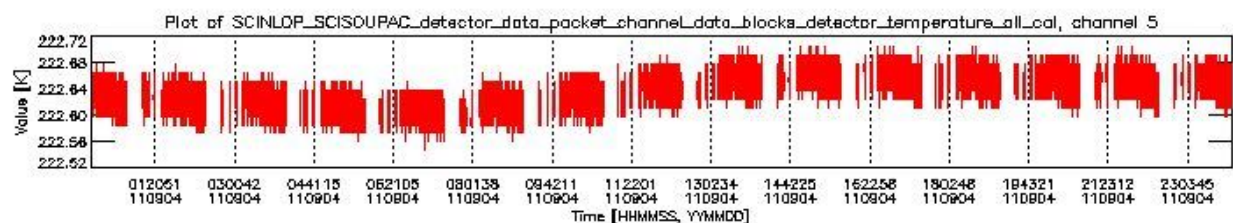
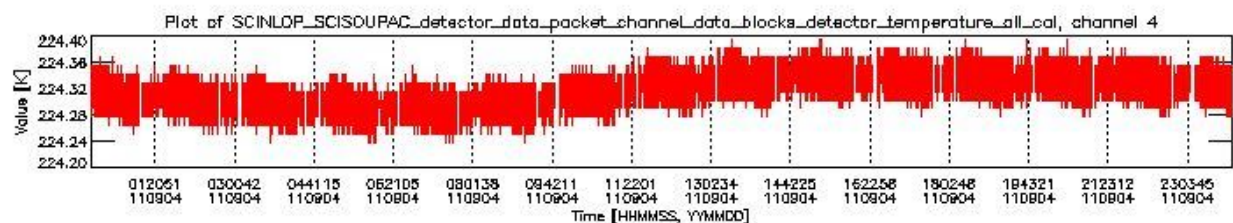
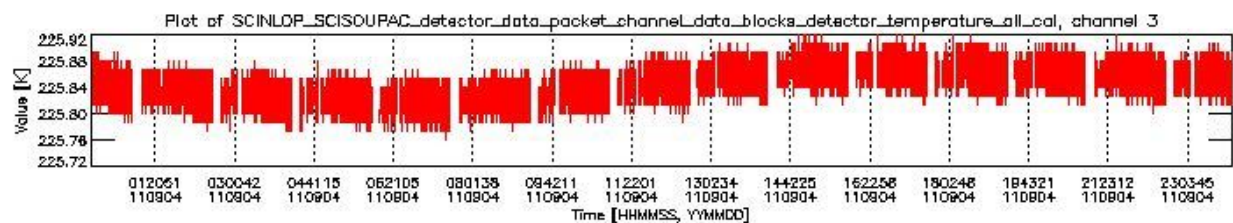
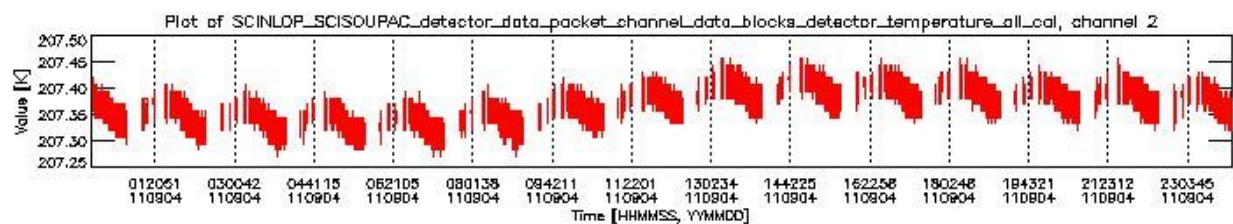
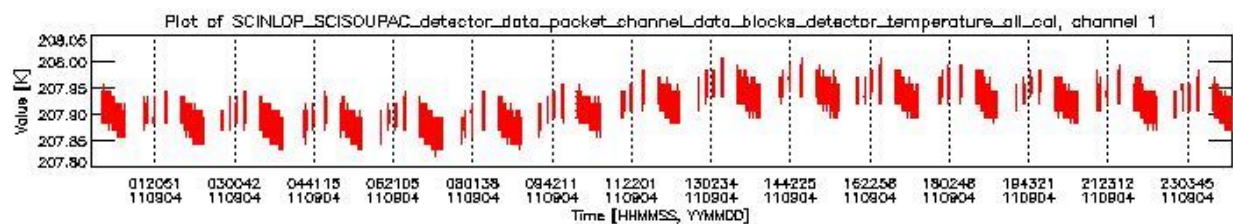


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110904\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110904\_3.PNG



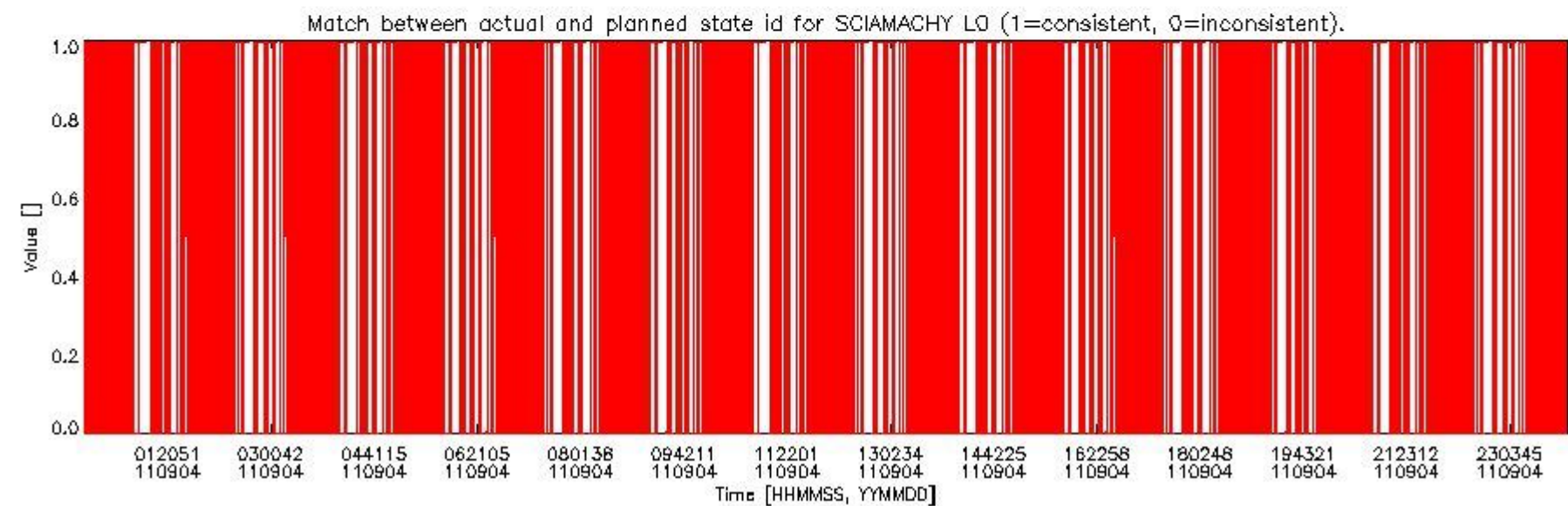
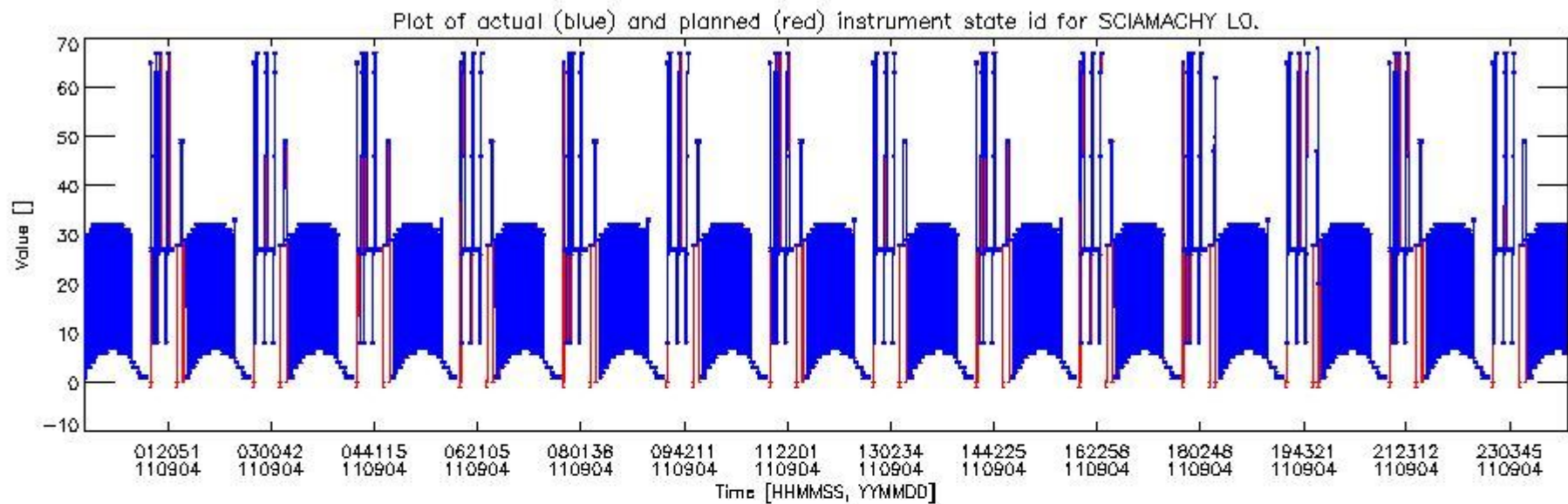


### 0.3 State monitoring

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: **62216**

#	Actual time	Actual value	Planned time	Planned value
0	04SEP2011 00:00:03.523633	1	04SEP2011 00:00:03.523633	30
1	04SEP2011 00:00:03.773633	1	04SEP2011 00:00:03.773633	30
2	04SEP2011 00:00:03.898633	1	04SEP2011 00:00:03.898633	30
3	04SEP2011 00:00:04.023633	1	04SEP2011 00:00:04.023633	30
4	04SEP2011 00:00:04.148633	1	04SEP2011 00:00:04.148633	30
5	04SEP2011 00:00:04.273633	1	04SEP2011 00:00:04.273633	30
6	04SEP2011 00:00:04.398633	1	04SEP2011 00:00:04.398633	30
7	04SEP2011 00:00:04.523633	1	04SEP2011 00:00:04.523633	30
8	04SEP2011 00:00:04.648633	1	04SEP2011 00:00:04.648633	30
9	04SEP2011 00:00:04.773633	1	04SEP2011 00:00:04.773633	30
10	04SEP2011 00:00:04.898633	1	04SEP2011 00:00:04.898633	30
11	04SEP2011 00:00:05.023633	1	04SEP2011 00:00:05.023633	30
12	04SEP2011 00:00:05.148633	1	04SEP2011 00:00:05.148633	30
13	04SEP2011 00:00:05.273633	1	04SEP2011 00:00:05.273633	30
14	04SEP2011 00:00:05.398633	1	04SEP2011 00:00:05.398633	30
15	04SEP2011 00:00:05.523633	1	04SEP2011 00:00:05.523633	30
16	04SEP2011 00:00:05.648633	1	04SEP2011 00:00:05.648633	30
17	04SEP2011 00:00:05.773633	1	04SEP2011 00:00:05.773633	30
18	04SEP2011 00:00:05.898633	1	04SEP2011 00:00:05.898633	30
19	04SEP2011 00:00:06.023633	1	04SEP2011 00:00:06.023633	30
...	...	...	...	...



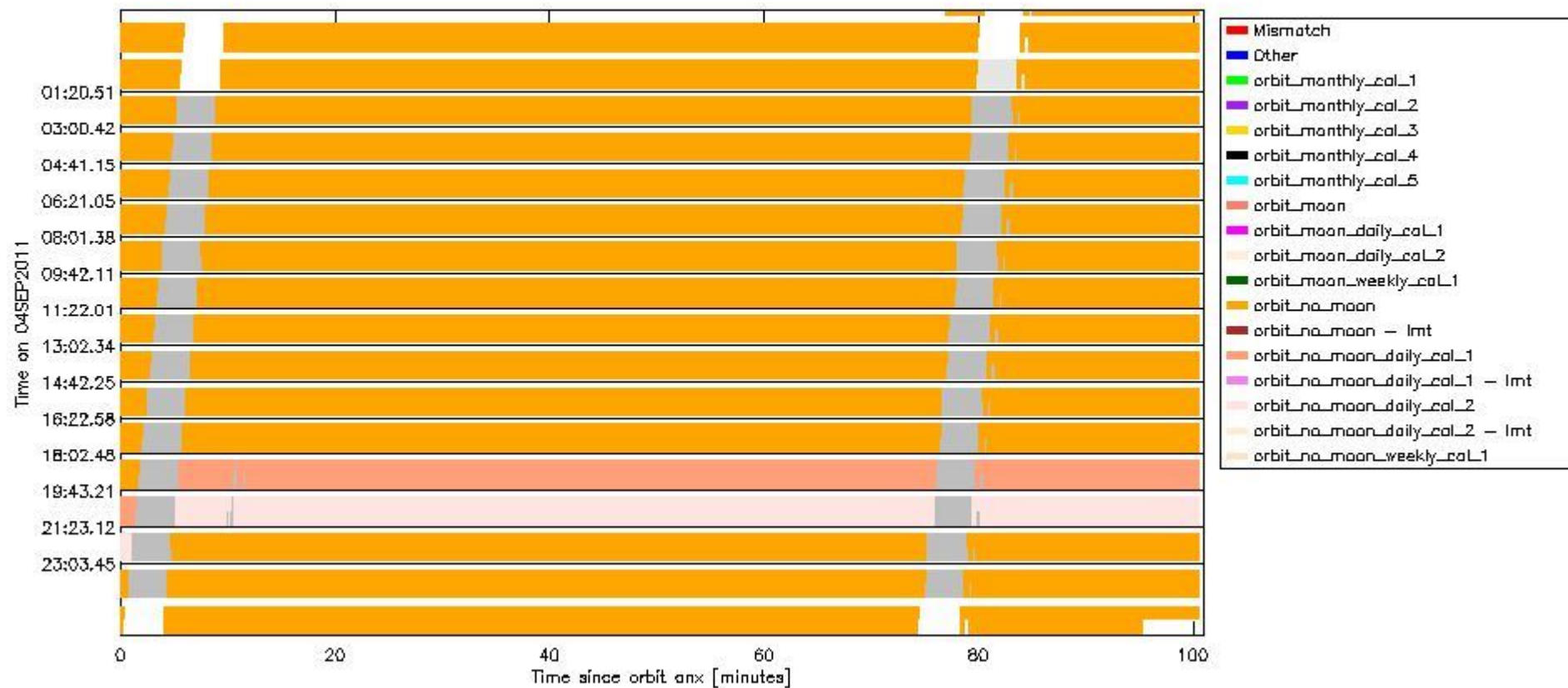
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110904\_5.PNG

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 04SEP2011.  
 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\_20110904\_6.PNG

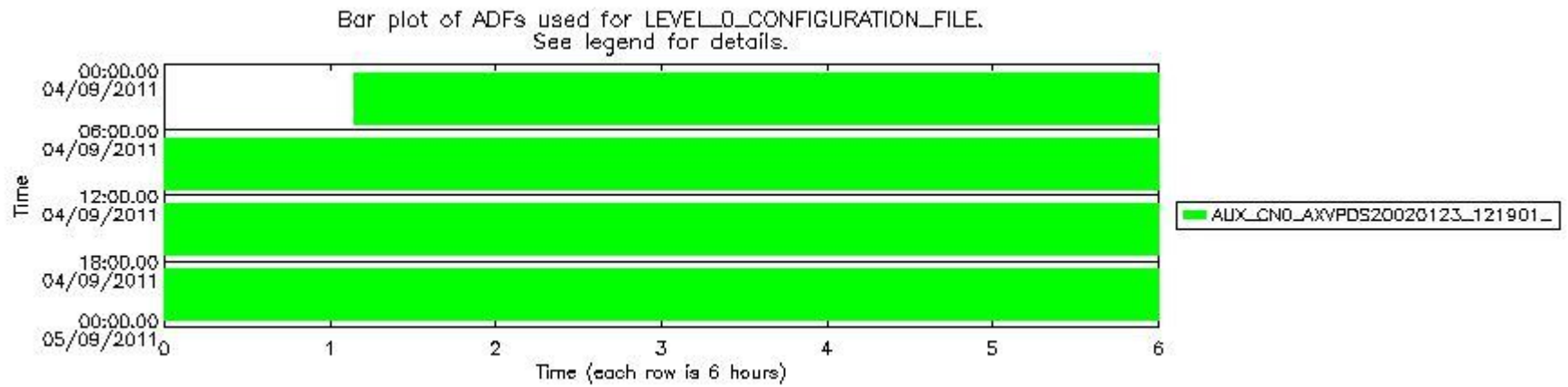
## 0.4 ADF monitoring

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

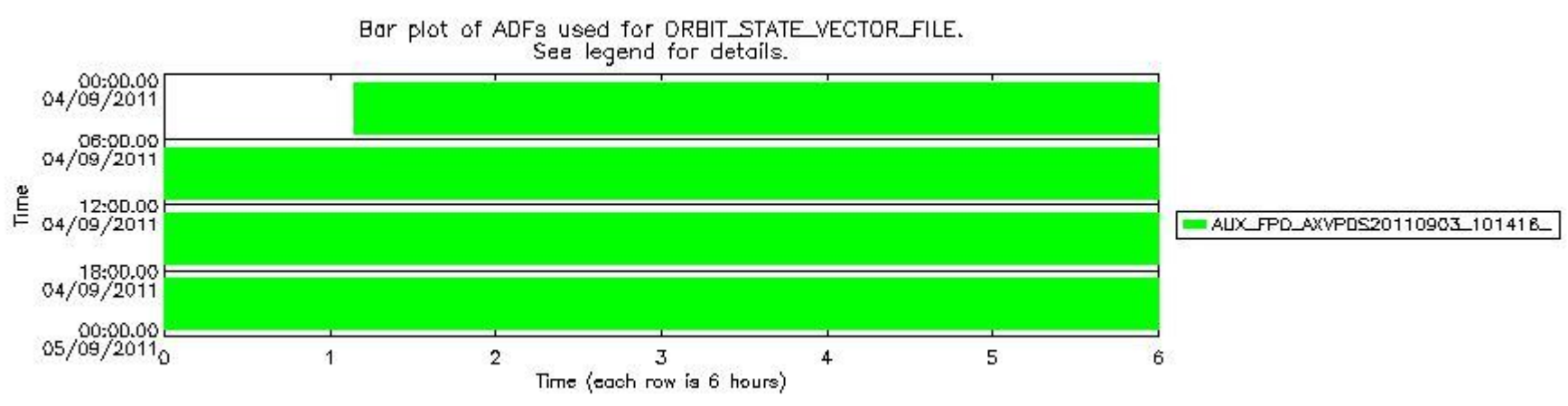
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

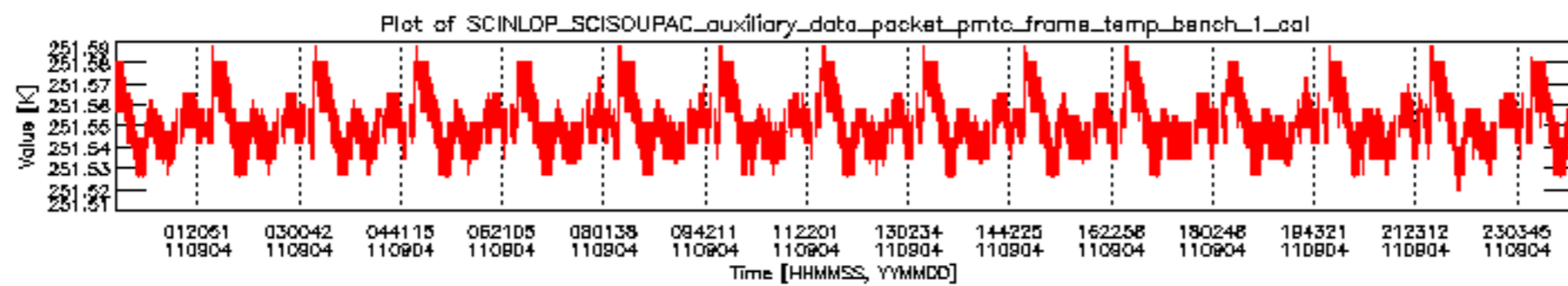
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110903_101416_20110902_191629_20110912_213013



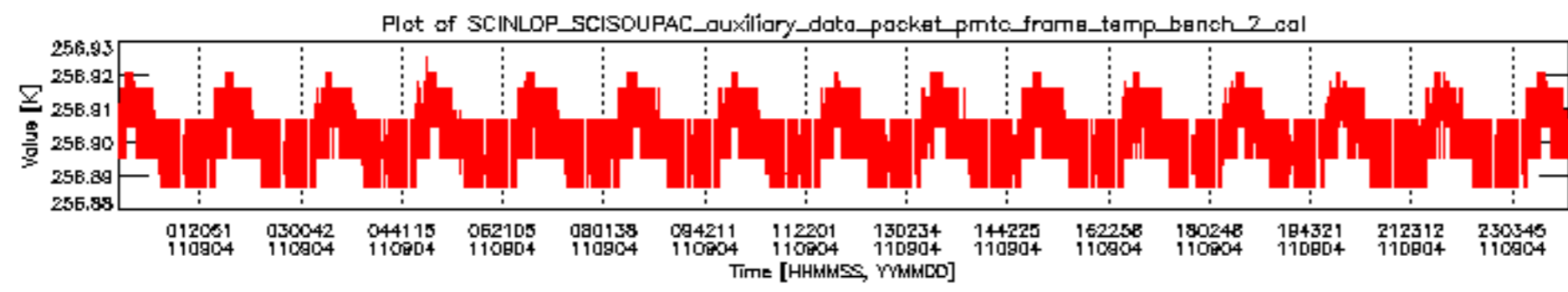
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110904\_7.PNG

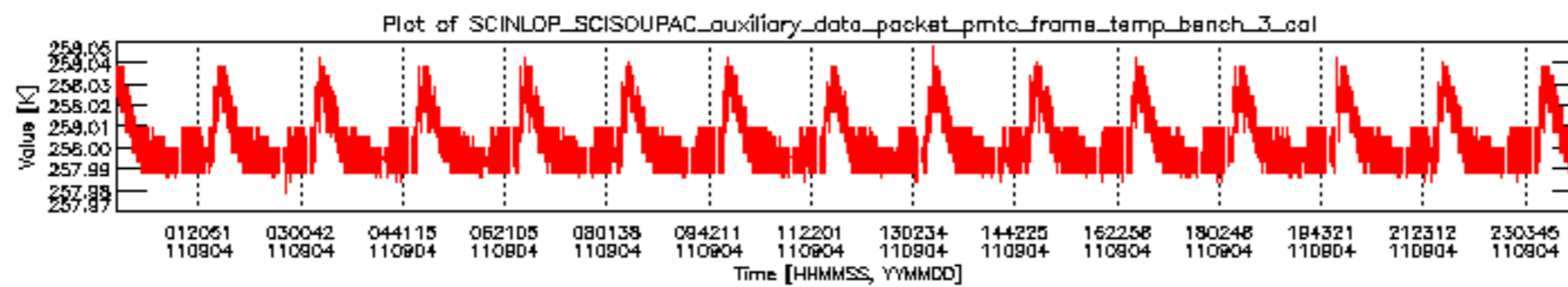


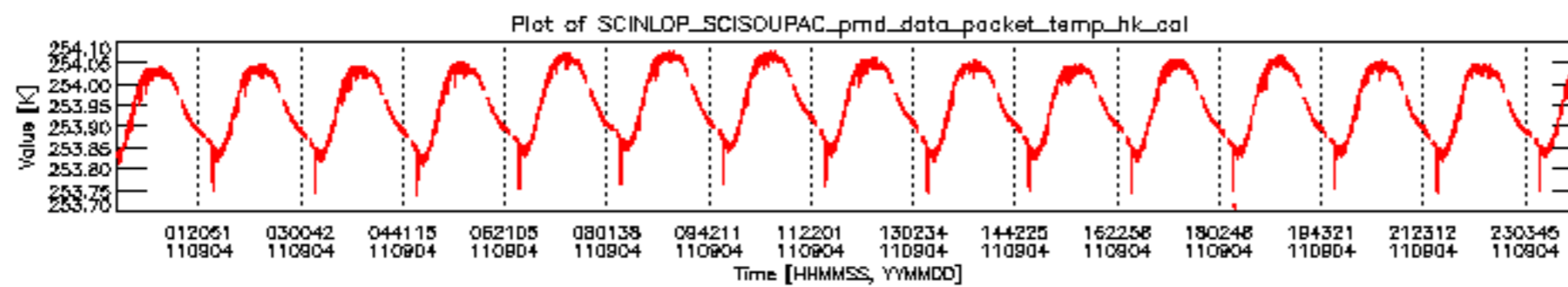
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110904\_8.PNG

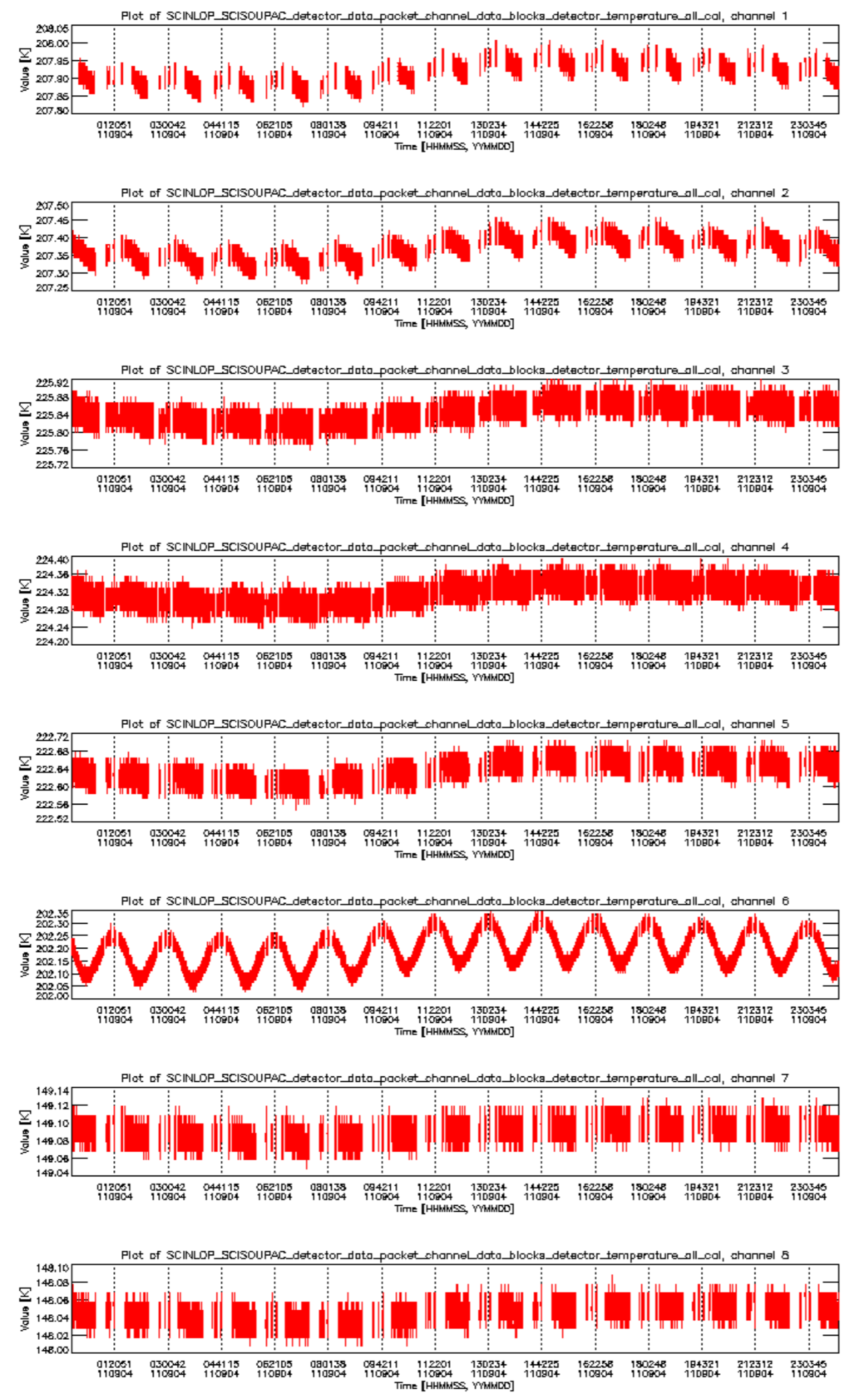




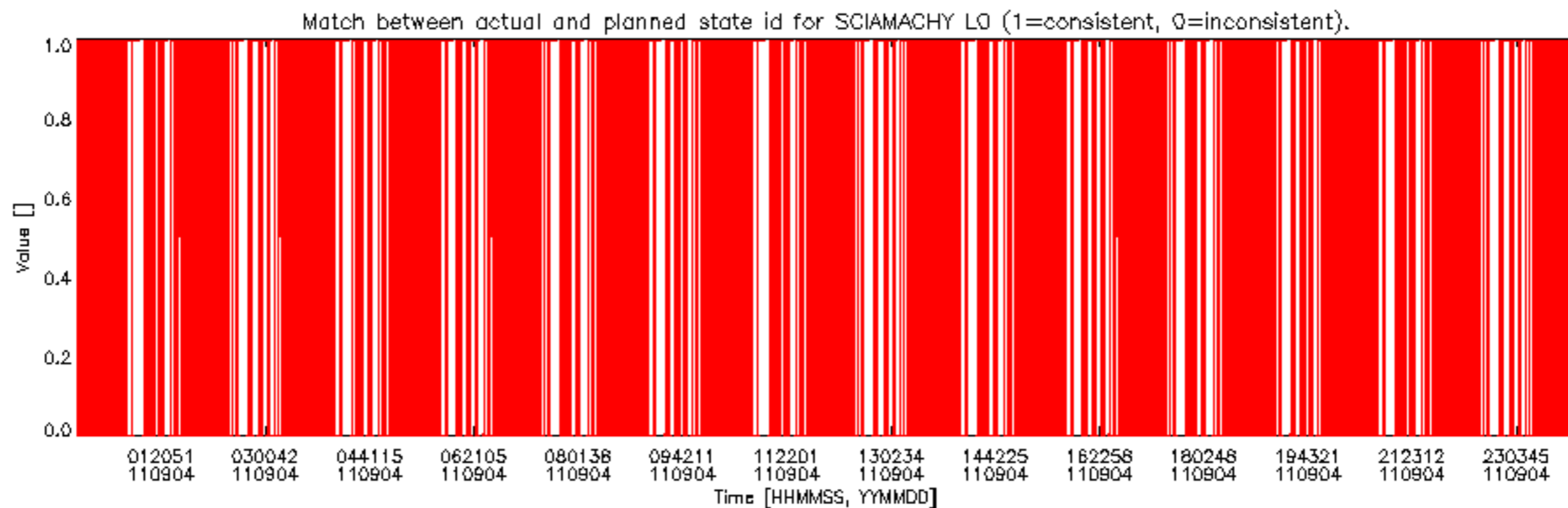
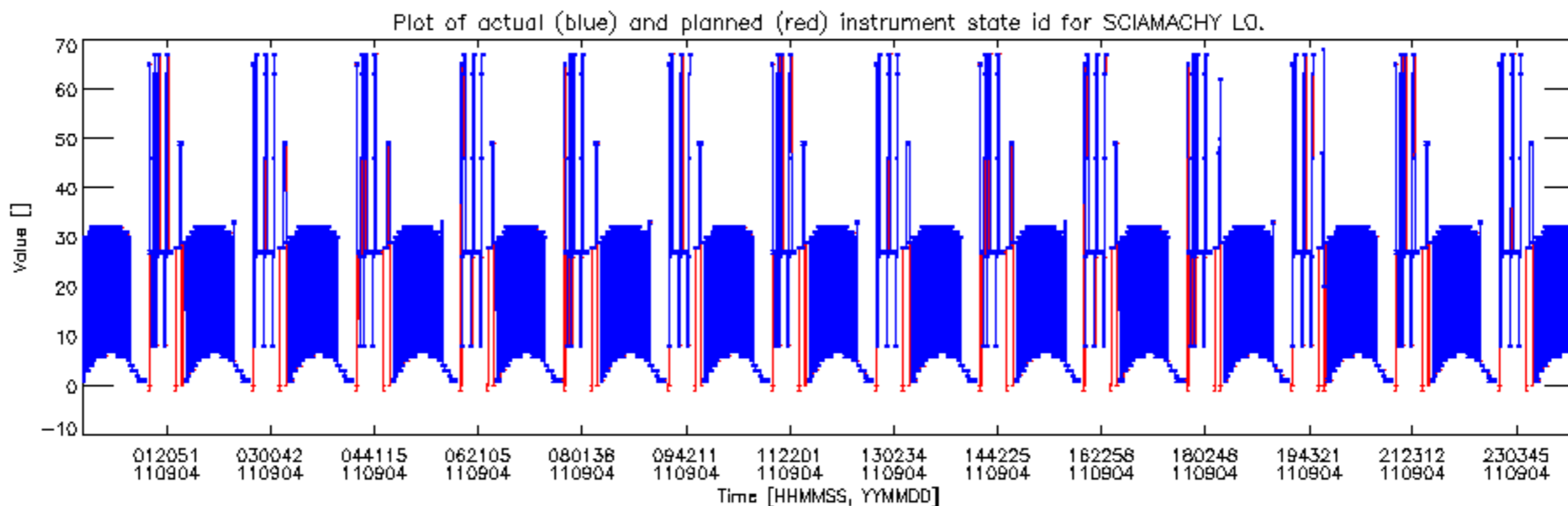












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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