

## 0. SCIAMACHY Daily Report for Level 0 products

### [0.1 General Info](#)

### [0.2 Product Quality Indicators](#)

### [0.3 State monitoring](#)

### [0.4 ADF monitoring](#)

## 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	13SEP2011 03:02:53
Data source version	KSPT_L0/4504-N
Processing scope for products	06SEP2011 00:00:00 to 07SEP2011 00:00:00
Start time of first product within scope	06SEP2011 01:33:28
Stop time of last product within scope	07SEP2011 00:59:42
Total number of Level 0 products	15
Number of Level 0 products with errors	1

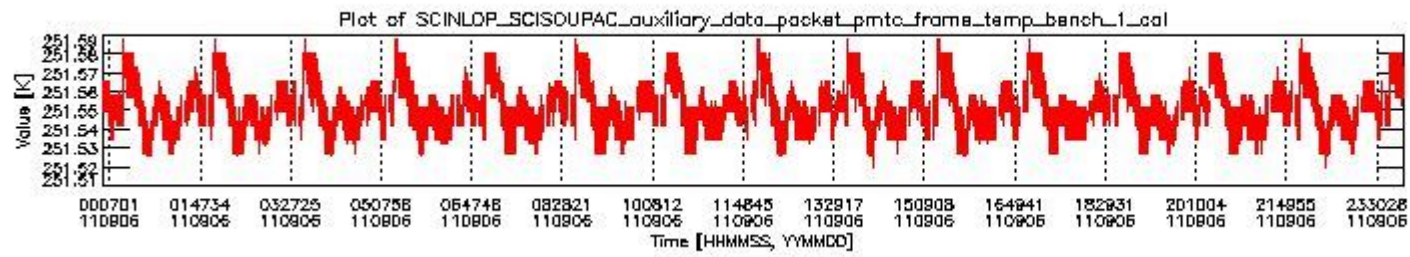
### 0.1.2 Summary per product

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

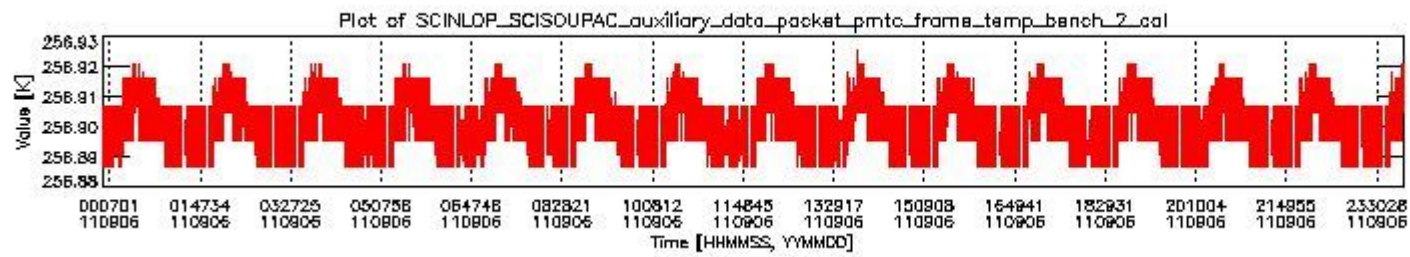
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110906_013328_000044303106_00189_49772_7102.N1	06SEP2011 01:33:28	06SEP2011 02:47:17	0	0	0	0	0
1	SCI_NL__OPNPDE20110906_024609_000061373106_00190_49773_7103.N1	06SEP2011 02:46:09	06SEP2011 04:28:26	0	0	0	0	0
2	SCI_NL__OPNPDE20110906_042717_000060833106_00191_49774_7104.N1	06SEP2011 04:27:17	06SEP2011 06:08:40	0	0	0	0	0
3	SCI_NL__OPNPDK20110906_060840_000041053106_00192_49775_5617.N1	06SEP2011 06:08:40	06SEP2011 07:17:05	0	0	0	0	0
4	SCI_NL__OPNPDK20110906_071705_000060833106_00193_49776_5618.N1	06SEP2011 07:17:05	06SEP2011 08:58:28	0	0	0	0	0
5	SCI_NL__OPNPDK20110906_085734_000060003106_00194_49777_5619.N1	06SEP2011 08:57:34	06SEP2011 10:37:34	0	0	0	0	0
6	SCI_NL__OPNPDK20110906_103640_000058923106_00195_49778_5620.N1	06SEP2011 10:36:40	06SEP2011 12:14:51	0	0	0	0	0
7	SCI_NL__OPNPDK20110906_121451_000060143106_00196_49779_5621.N1	06SEP2011 12:14:51	06SEP2011 13:55:06	0	0	0	0	0
8	SCI_NL__OPNPDK20110906_135506_000057693106_00197_49780_5622.N1	06SEP2011 13:55:06	06SEP2011 15:31:15	0	0	0	0	0
9	SCI_NL__OPNPDK20110906_152912_000060153106_00198_49781_5623.N1	06SEP2011 15:29:12	06SEP2011 17:09:27	0	0	0	0	0
10	SCI_NL__OPNPDK20110906_170818_000059583106_00199_49782_5624.N1	06SEP2011 17:08:18	06SEP2011 18:47:36	0	0	0	0	0
11	SCI_NL__OPNPDK20110906_184642_000060303106_00200_49783_5625.N1	06SEP2011 18:46:42	06SEP2011 20:27:12	1	1	0	0	0
12	SCI_NL__OPNPDE20110906_202523_000042583106_00201_49784_7105.N1	06SEP2011 20:25:23	06SEP2011 21:36:21	0	0	0	0	0
13	SCI_NL__OPNPDE20110906_213621_000061473106_00201_49784_7106.N1	06SEP2011 21:36:21	06SEP2011 23:18:48	0	0	0	0	0
14	SCI_NL__OPNPDE20110906_231814_000060873106_00202_49785_7107.N1	06SEP2011 23:18:14	07SEP2011 00:59:42	0	0	0	0	0

## 0.2 Product Quality Indicators

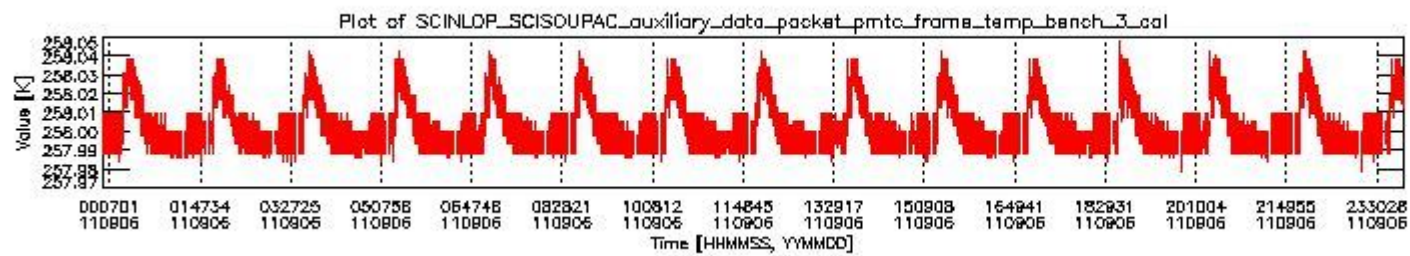
This section shows information about product quality, currently temperatures.



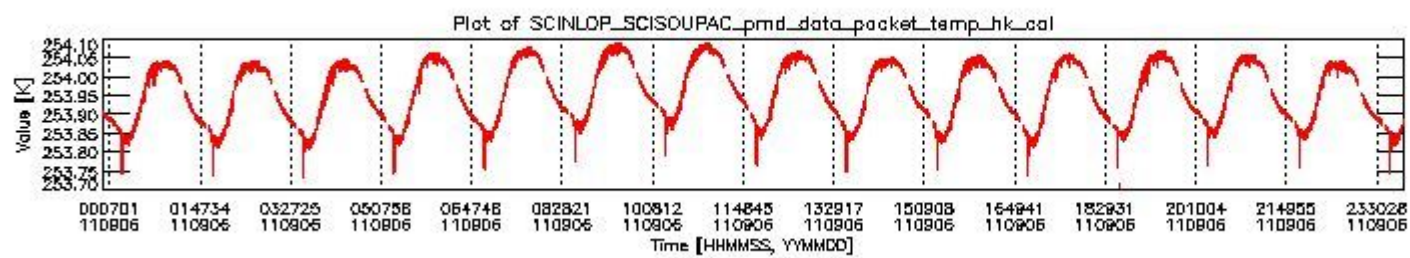
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110906\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110906\_1.PNG

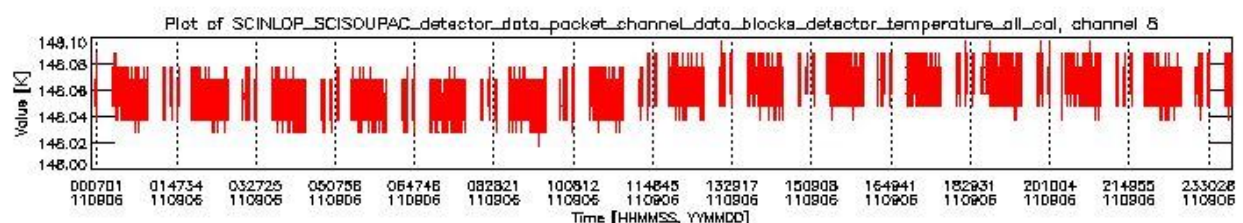
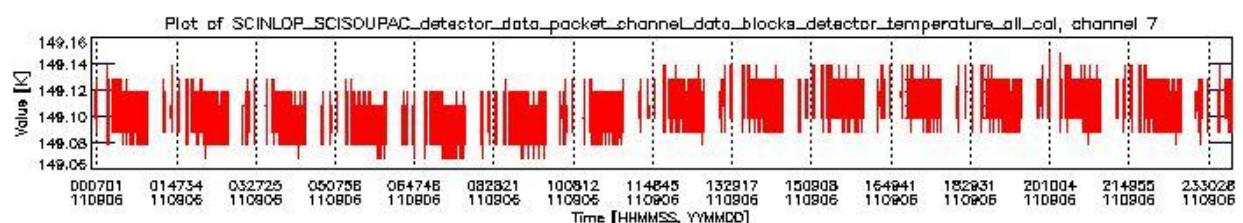
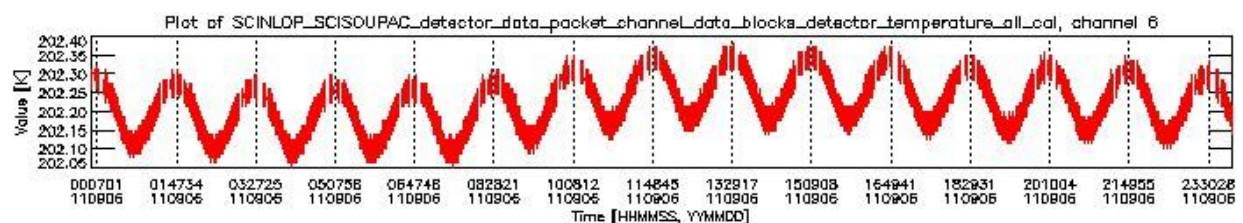
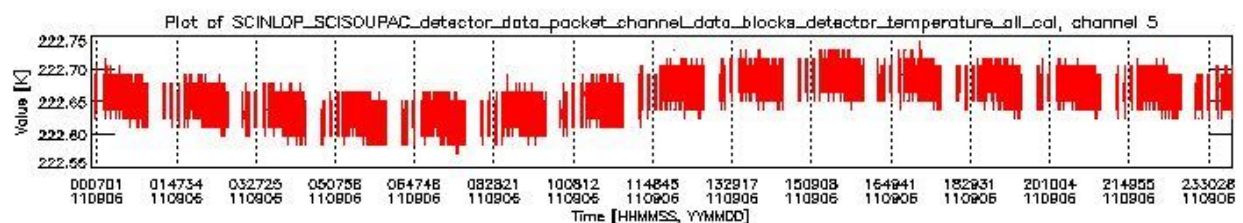
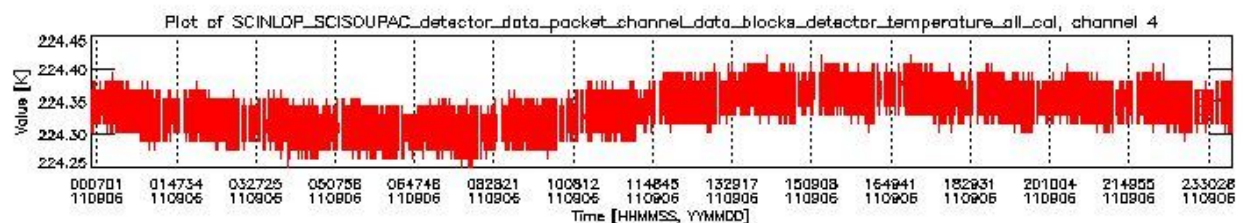
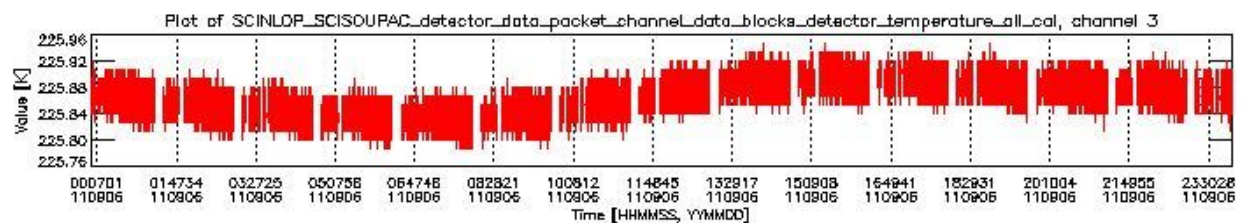
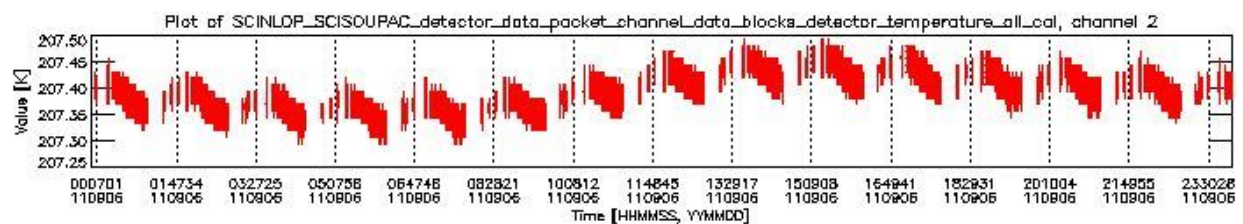
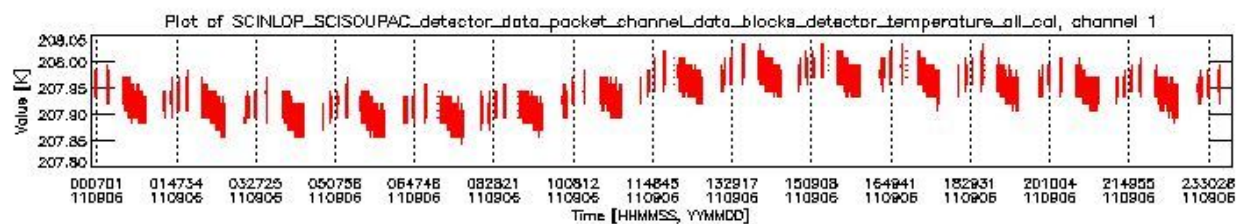


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110906\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110906\_3.PNG



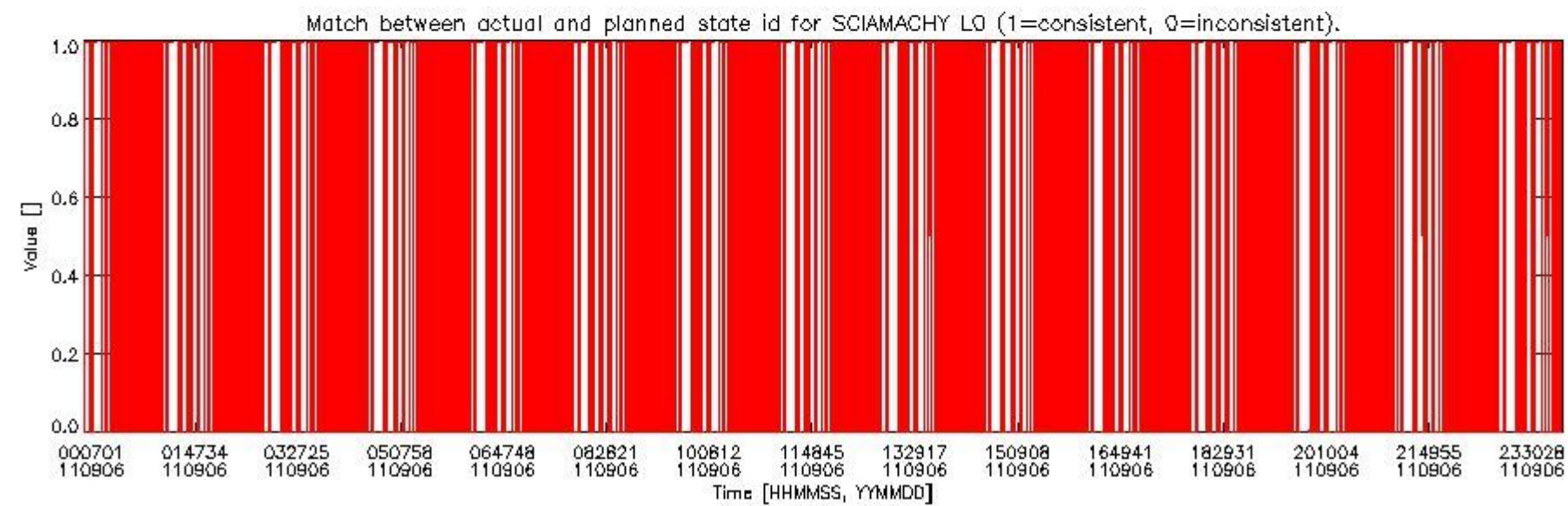
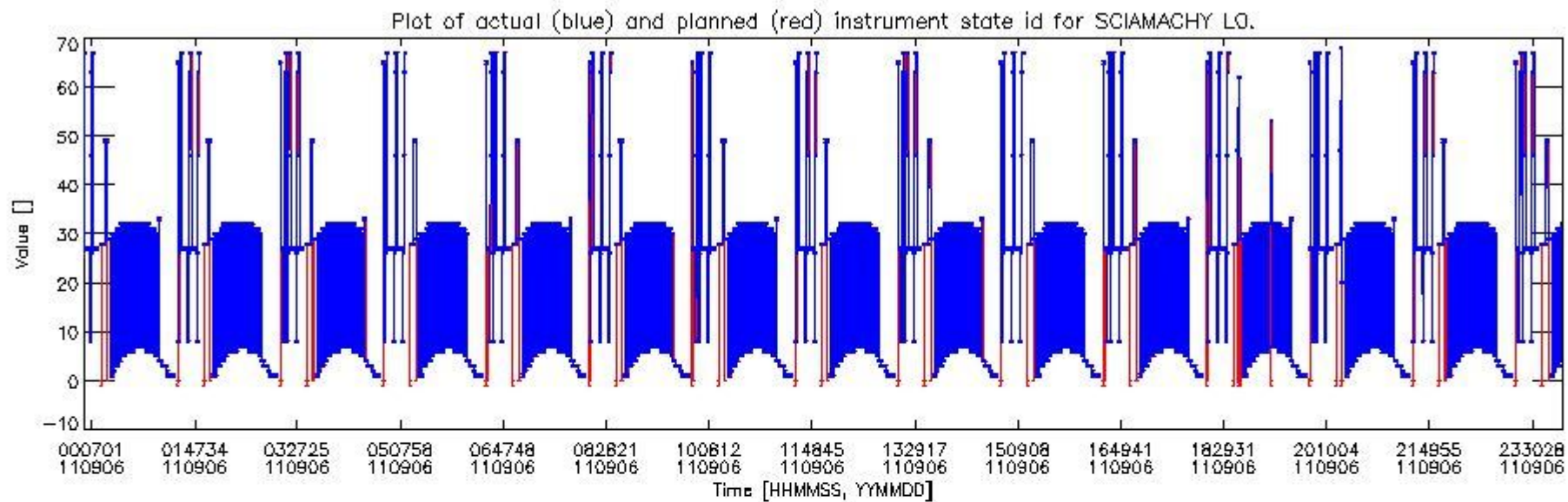


### 0.3 State monitoring

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: **63290**

#	Actual time	Actual value	Planned time	Planned value
0	06SEP2011 00:00:17.260851	27	06SEP2011 00:00:17.260851	67
1	06SEP2011 00:00:18.260851	27	06SEP2011 00:00:18.260851	67
2	06SEP2011 00:00:19.198351	27	06SEP2011 00:00:19.198351	67
3	06SEP2011 00:00:19.948351	27	06SEP2011 00:00:19.948351	67
4	06SEP2011 00:00:20.885851	27	06SEP2011 00:00:20.885851	67
5	06SEP2011 00:00:21.635851	27	06SEP2011 00:00:21.635851	67
6	06SEP2011 00:00:22.260851	27	06SEP2011 00:00:22.260851	67
7	06SEP2011 00:00:22.573351	27	06SEP2011 00:00:22.573351	67
8	06SEP2011 00:00:23.323351	27	06SEP2011 00:00:23.323351	67
9	06SEP2011 00:00:24.260851	27	06SEP2011 00:00:24.260851	67
10	06SEP2011 00:00:25.010851	27	06SEP2011 00:00:25.010851	67
11	06SEP2011 00:00:25.948351	27	06SEP2011 00:00:25.948351	67
12	06SEP2011 00:00:26.698351	27	06SEP2011 00:00:26.698351	67
13	06SEP2011 00:00:27.260851	27	06SEP2011 00:00:27.260851	67
14	06SEP2011 00:00:27.635851	27	06SEP2011 00:00:27.635851	67
15	06SEP2011 00:00:28.385851	27	06SEP2011 00:00:28.385851	67
16	06SEP2011 00:00:29.323351	27	06SEP2011 00:00:29.323351	67
17	06SEP2011 00:00:30.073351	27	06SEP2011 00:00:30.073351	67
18	06SEP2011 00:00:31.010851	27	06SEP2011 00:00:31.010851	67
19	06SEP2011 00:05:25.674954	8	06SEP2011 00:05:25.674954	27
	...	...	...	...



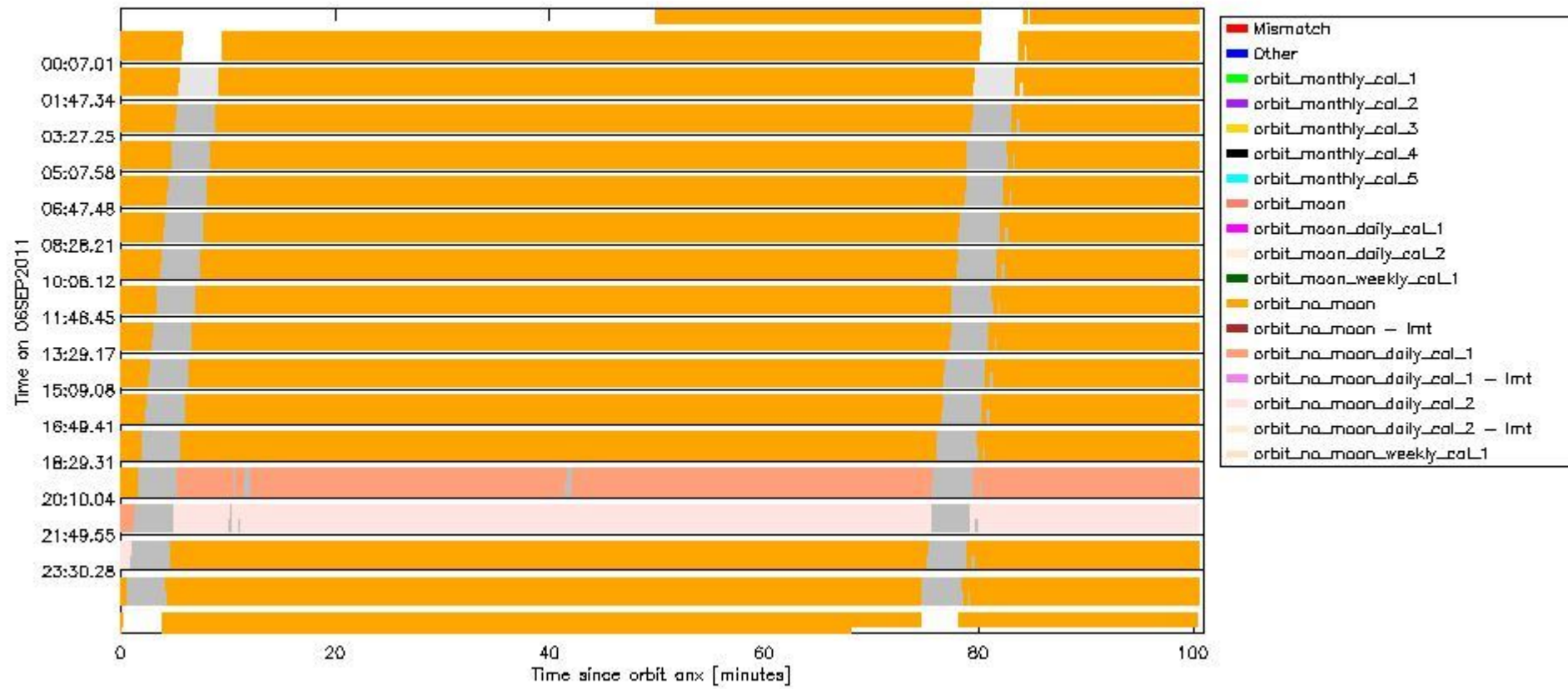
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110906\_5.PNG

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 06SEP2011.  
 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\_20110906\_6.PNG

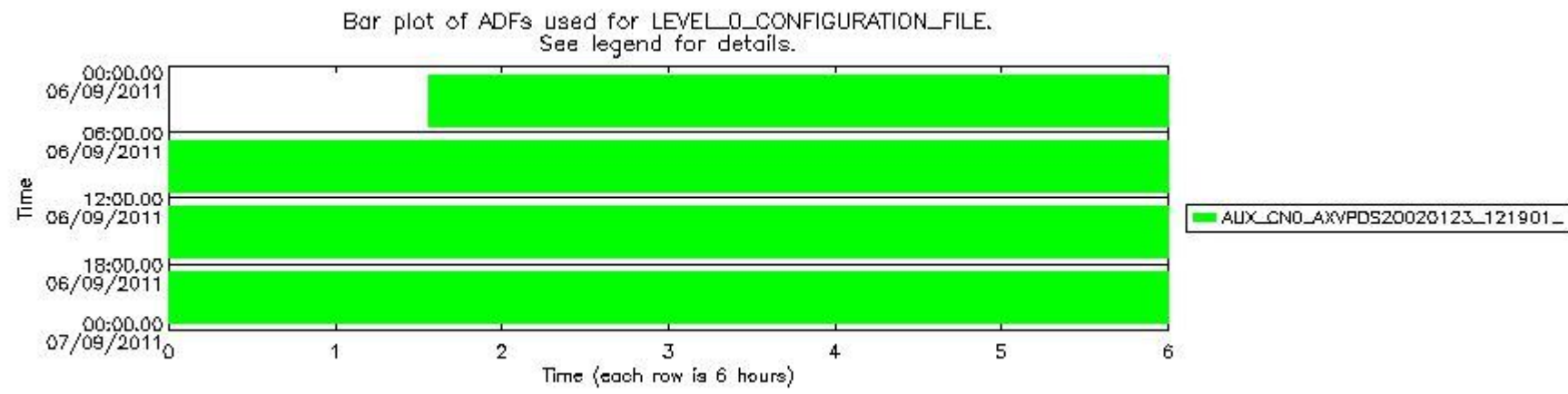
## 0.4 ADF monitoring

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

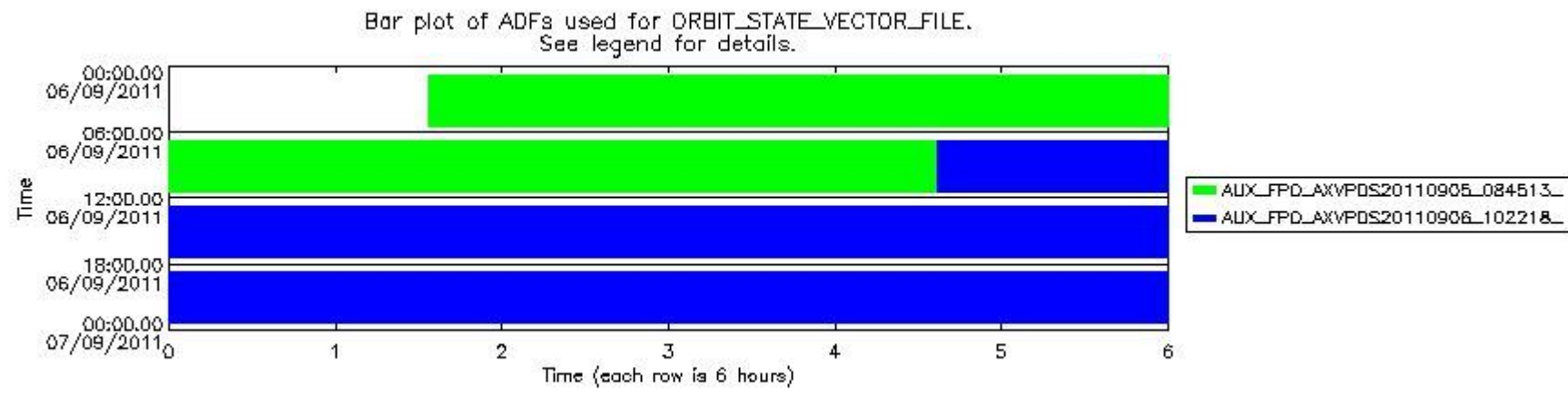
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

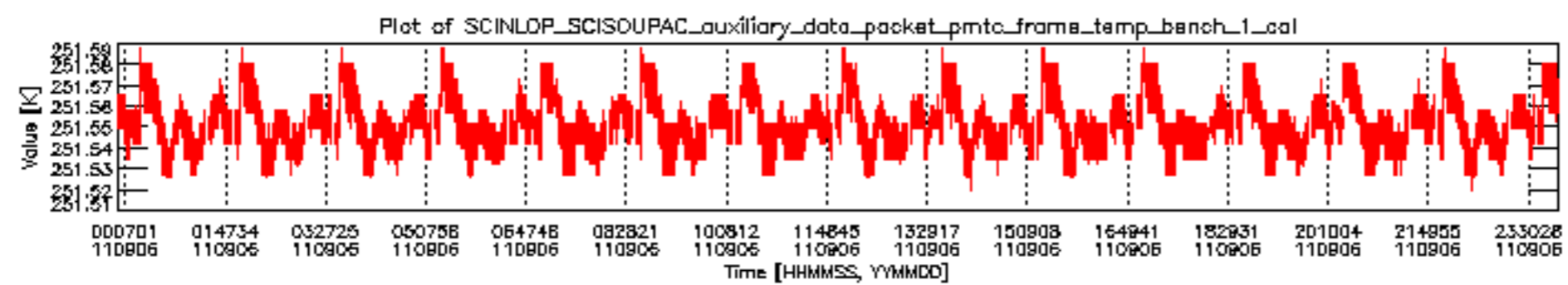
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110905_084513_20110904_194314_20110914_201644
2	AUX_FPO_AXVPDS20110906_102218_20110905_190629_20110915_212014



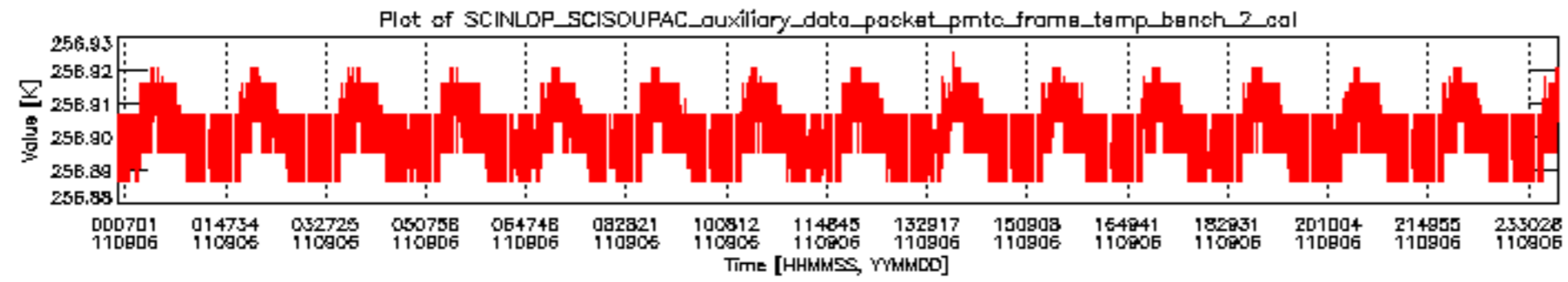
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110906\_7.PNG

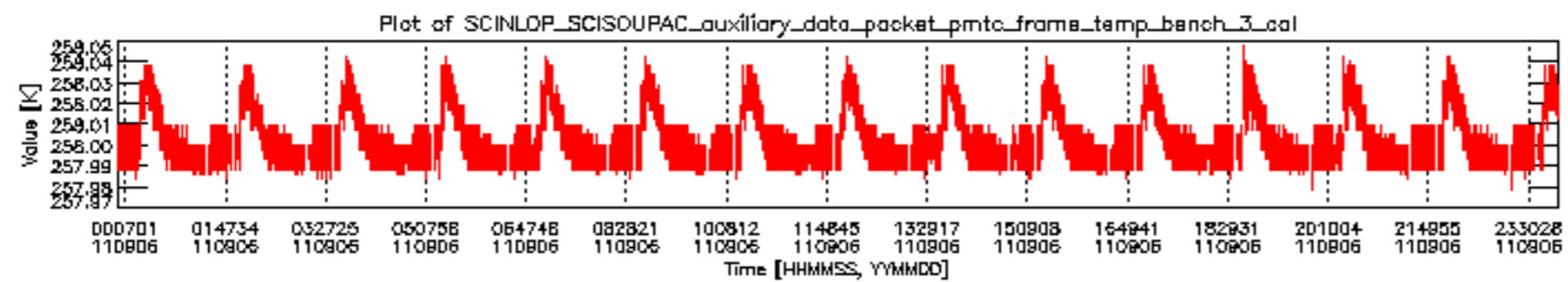


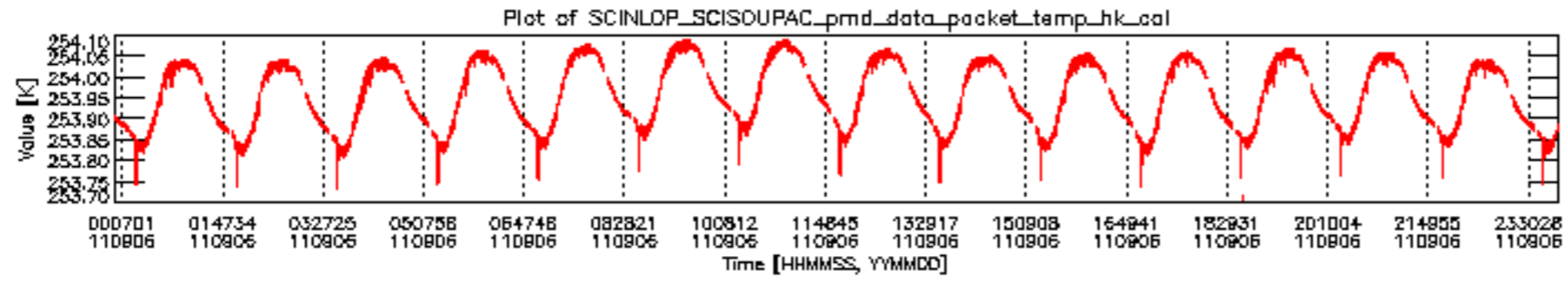
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110906\_8.PNG

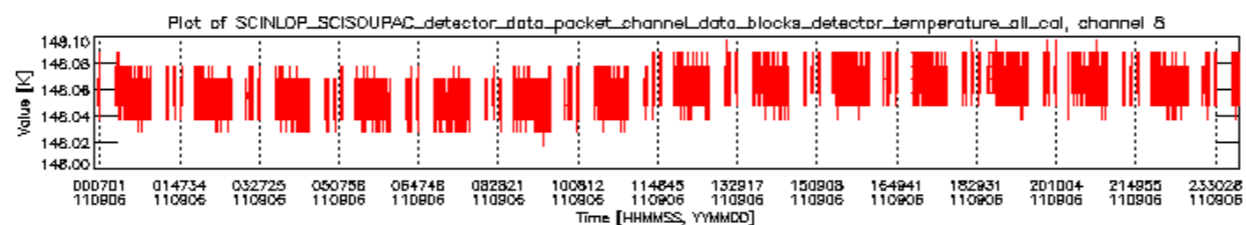
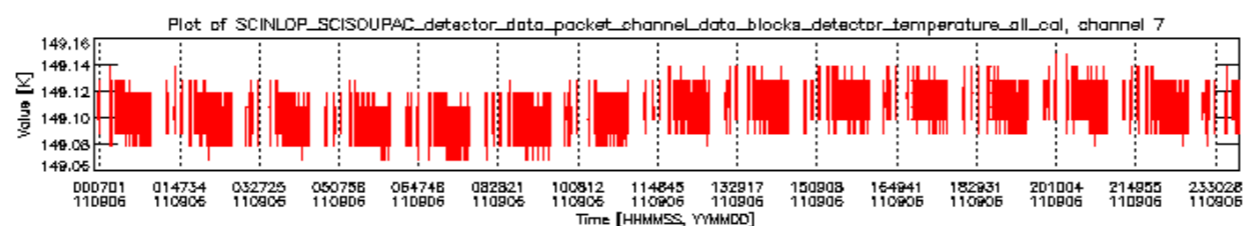
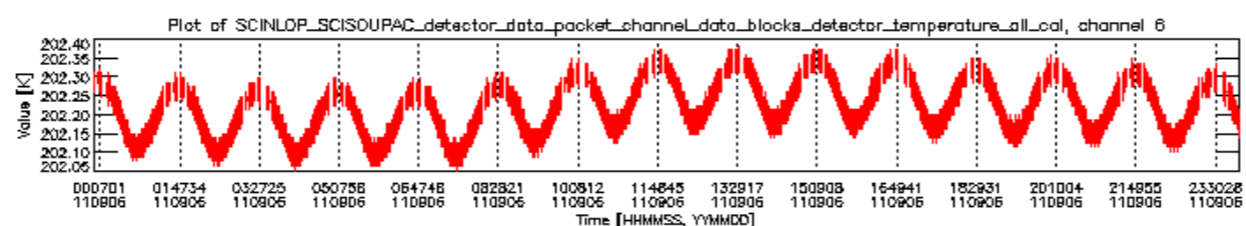
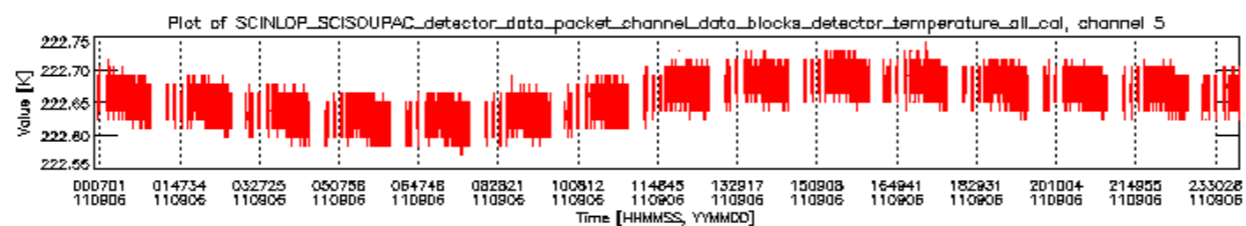
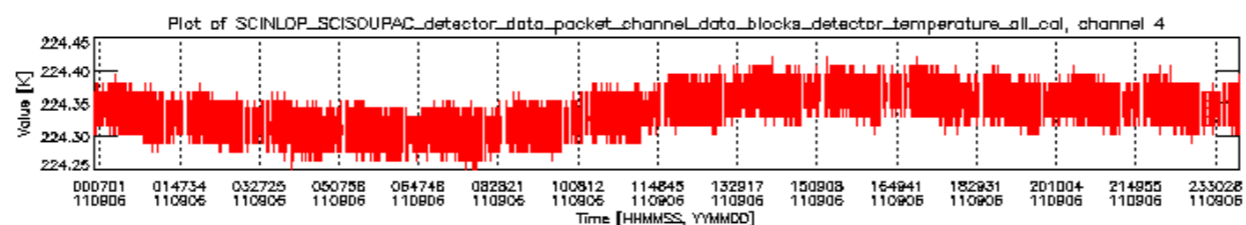
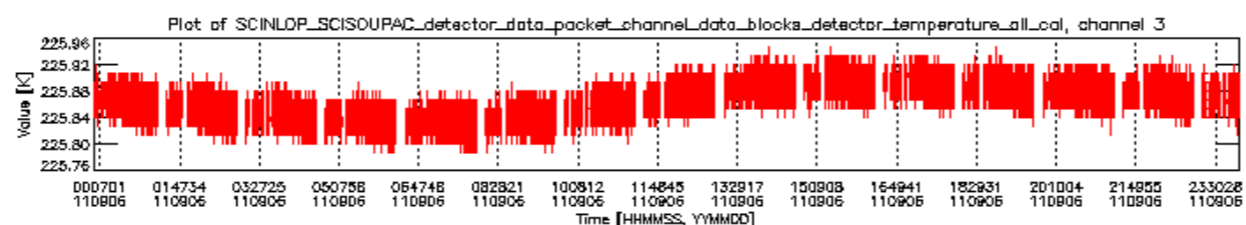
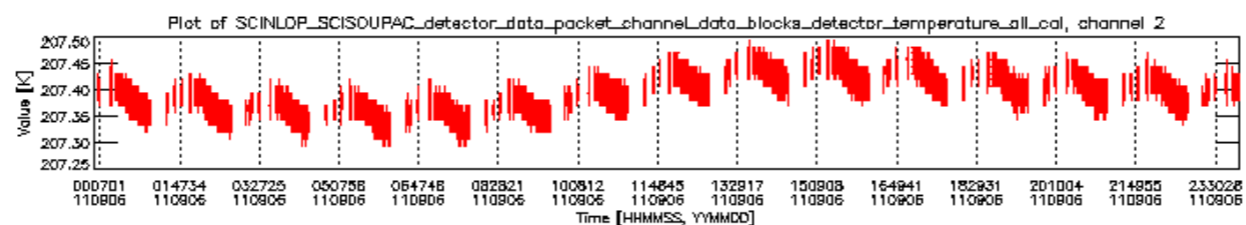
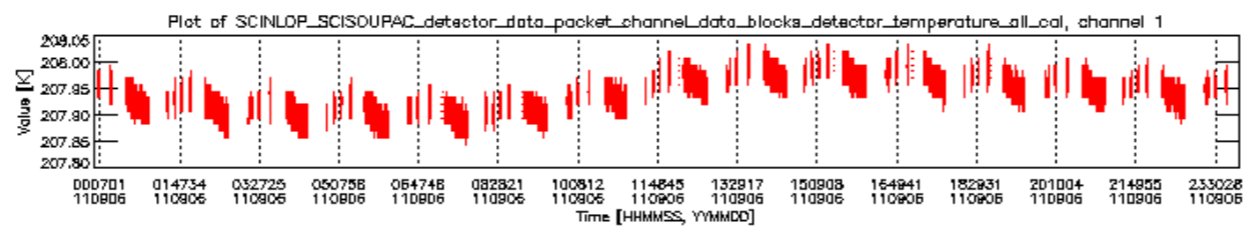




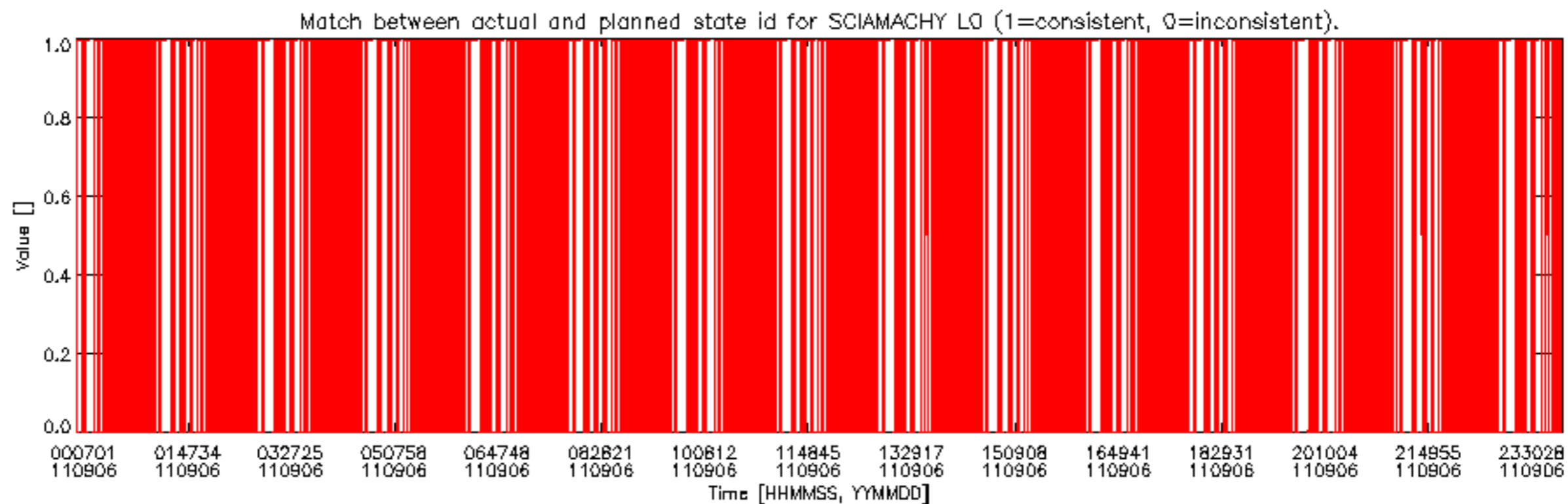
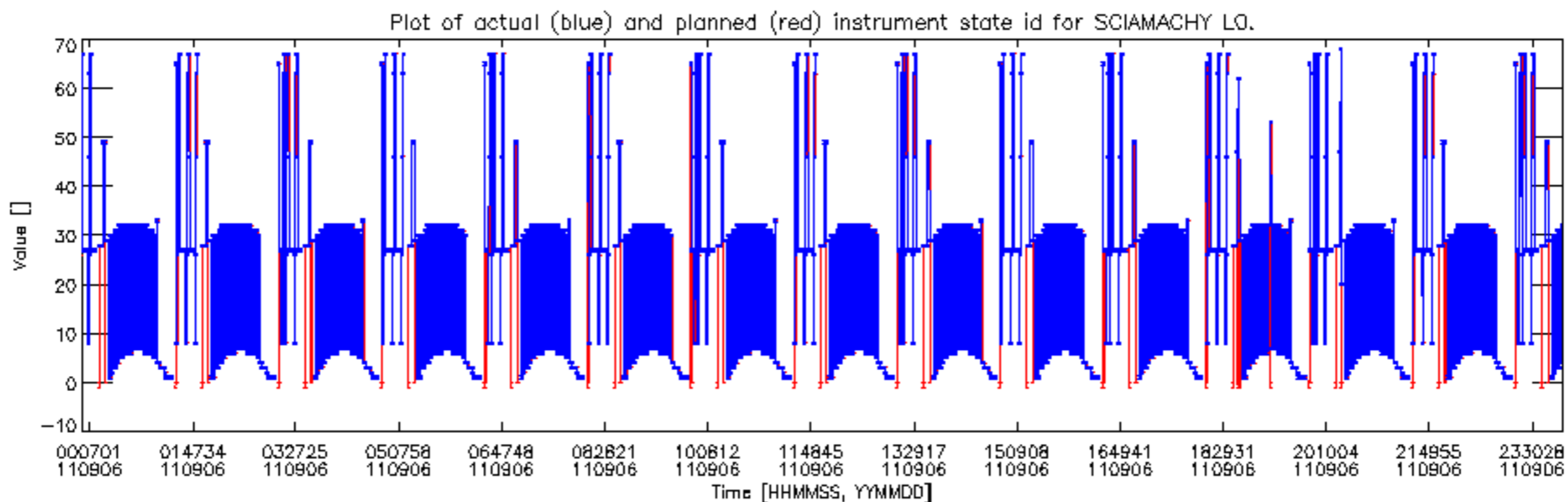












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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