

## 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	14SEP2011 02:45:42
Data source version	KSPT_L0/4504-N
Processing scope for products	07SEP2011 00:00:00 to 08SEP2011 00:00:00
Start time of first product within scope	07SEP2011 00:58:14
Stop time of last product within scope	08SEP2011 00:23:48
Total number of Level 0 products	16
Number of Level 0 products with errors	1

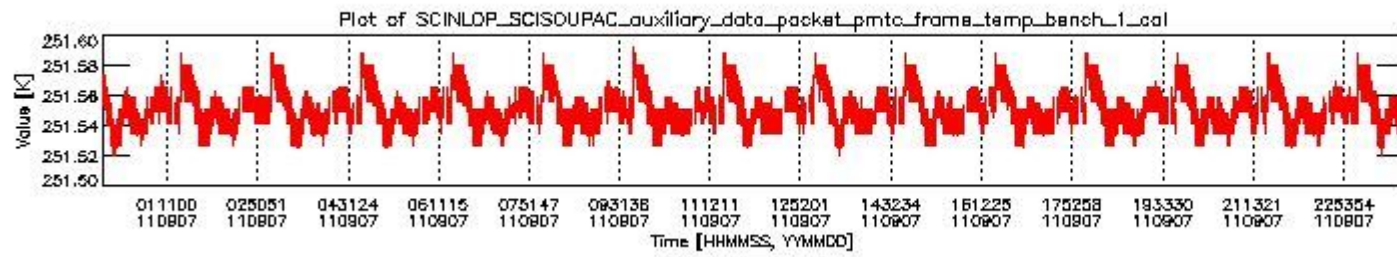
### 0.1.2 Summary per product

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

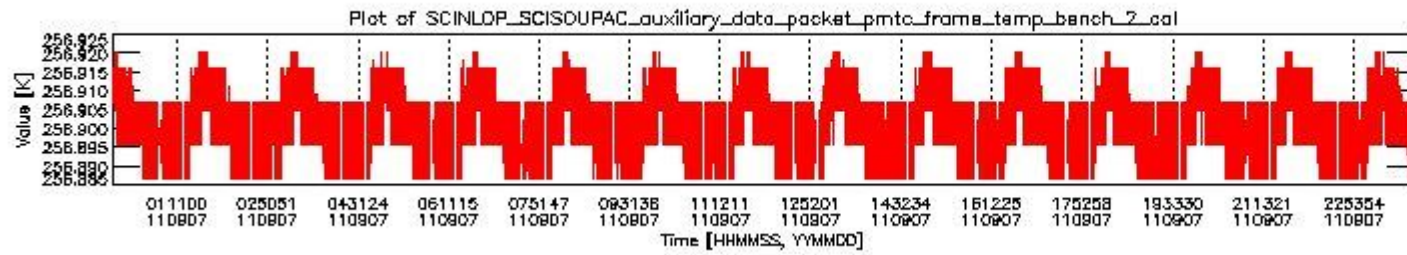
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110907_005814_000102923106_00203_49786_7108.N1	07SEP2011 00:58:14	07SEP2011 03:49:45	0	0	0	0	0
1	SCI_NL__OPNPDE20110907_014201_000076643106_00204_49787_3842.N1	07SEP2011 01:42:01	07SEP2011 03:49:45	0	0	0	0	0
2	SCI_NL__OPNPDE20110907_023417_000045293106_00204_49787_3843.N1	07SEP2011 02:34:17	07SEP2011 03:49:45	0	0	0	0	0
3	SCI_NL__OPNPDE20110907_034837_000062063106_00205_49788_7109.N1	07SEP2011 03:48:37	07SEP2011 05:32:03	0	0	0	0	0
4	SCI_NL__OPNPDE20110907_053109_000060693106_00206_49789_7110.N1	07SEP2011 05:31:09	07SEP2011 07:12:17	0	0	0	0	0
5	SCI_NL__OPNPDK20110907_071109_000041193106_00207_49790_5626.N1	07SEP2011 07:11:09	07SEP2011 08:19:48	1	1	0	0	0
6	SCI_NL__OPNPDK20110907_081854_000061233106_00208_49791_5627.N1	07SEP2011 08:18:54	07SEP2011 10:00:56	0	0	0	0	0
7	SCI_NL__OPNPDK20110907_100056_000059063106_00209_49792_5628.N1	07SEP2011 10:00:56	07SEP2011 11:39:22	0	0	0	0	0
8	SCI_NL__OPNPDK20110907_113922_000059463106_00210_49793_5629.N1	07SEP2011 11:39:22	07SEP2011 13:18:28	0	0	0	0	0
9	SCI_NL__OPNPDK20110907_131720_000059603106_00211_49794_5630.N1	07SEP2011 13:17:20	07SEP2011 14:56:40	0	0	0	0	0
10	SCI_NL__OPNPDK20110907_145546_000057553106_00212_49795_5631.N1	07SEP2011 14:55:46	07SEP2011 16:31:40	0	0	0	0	0
11	SCI_NL__OPNPDK20110907_163140_000060273106_00213_49796_5632.N1	07SEP2011 16:31:40	07SEP2011 18:12:08	0	0	0	0	0
12	SCI_NL__OPNPDK20110907_181114_000059603106_00214_49797_5633.N1	07SEP2011 18:11:14	07SEP2011 19:50:34	0	0	0	0	0
13	SCI_NL__OPNPDE20110907_194940_000040803106_00215_49798_7111.N1	07SEP2011 19:49:40	07SEP2011 20:57:40	0	0	0	0	0
14	SCI_NL__OPNPDE20110907_205656_000063983106_00215_49798_7112.N1	07SEP2011 20:56:56	07SEP2011 22:43:34	0	0	0	0	0
15	SCI_NL__OPNPDE20110907_224210_000060983106_00216_49799_7113.N1	07SEP2011 22:42:10	08SEP2011 00:23:48	0	0	0	0	0

## 0.2 Product Quality Indicators

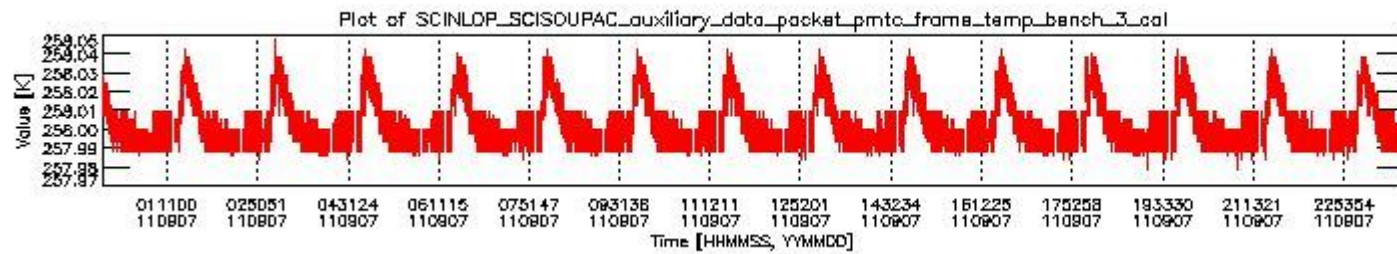
This section shows information about product quality, currently temperatures.



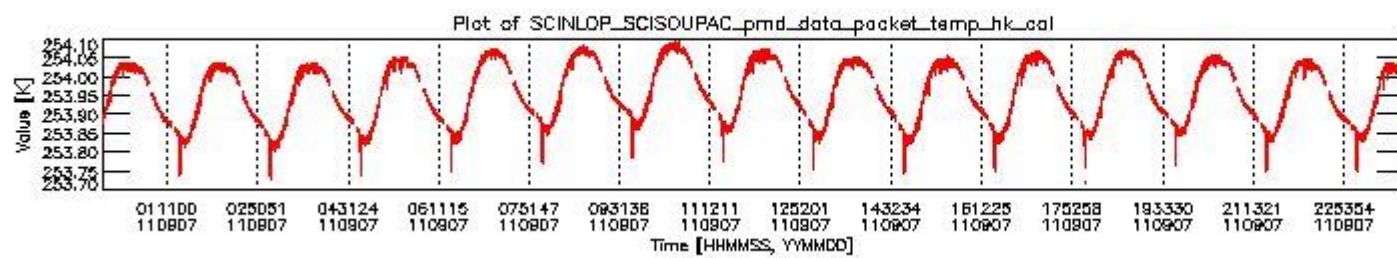
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110907\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110907\_1.PNG

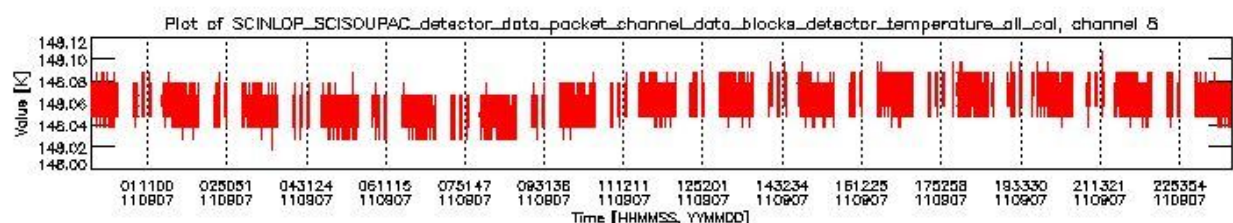
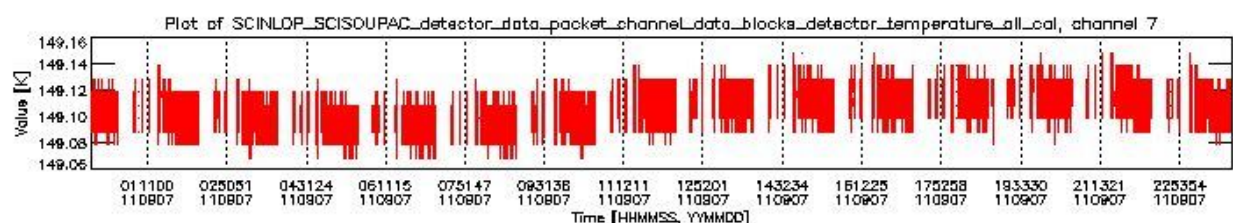
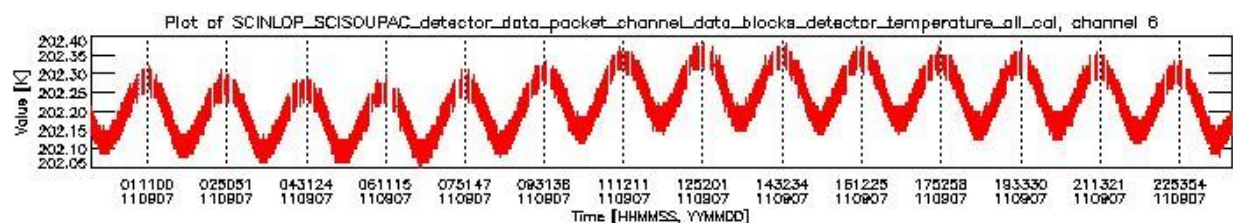
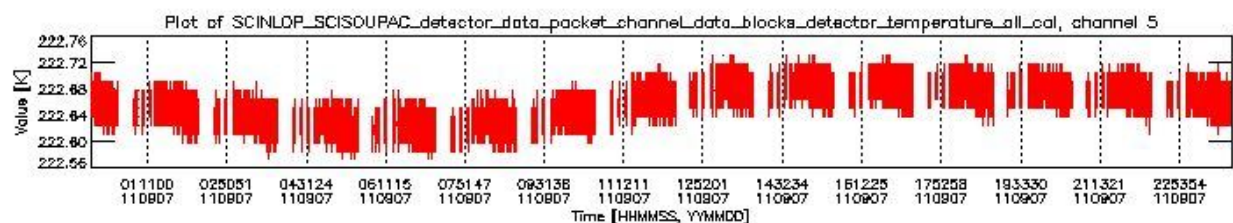
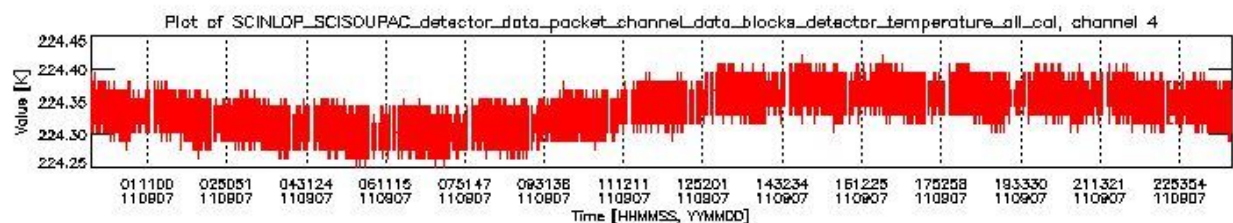
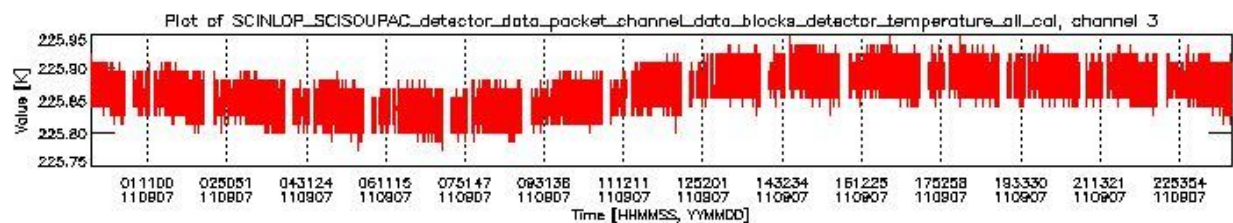
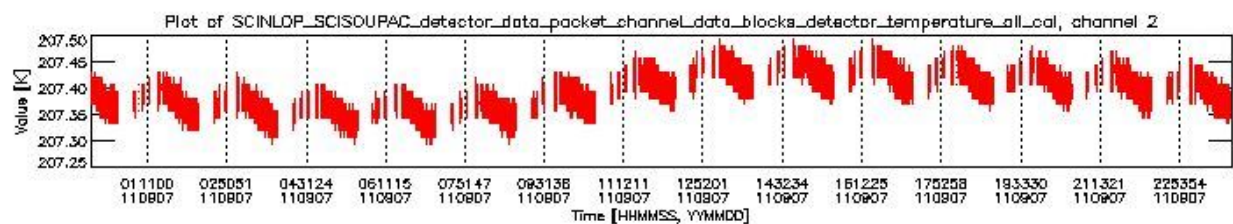
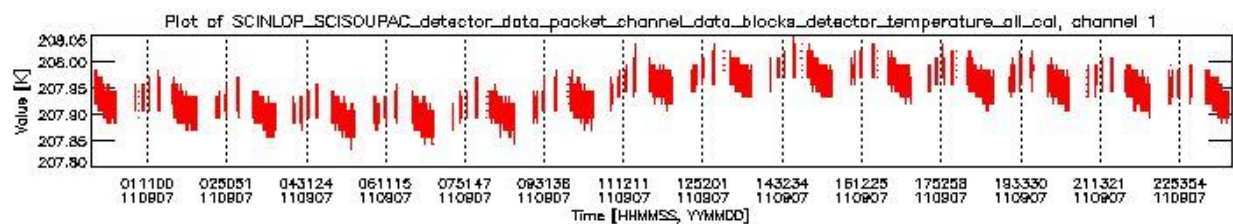


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110907\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110907\_3.PNG



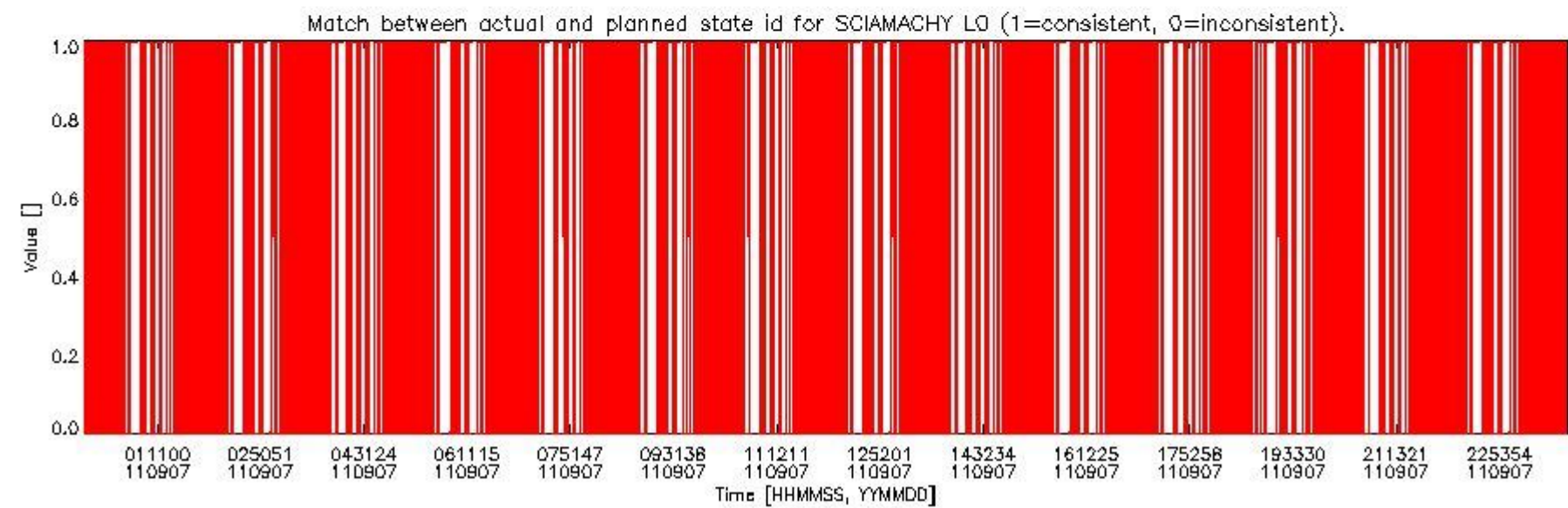
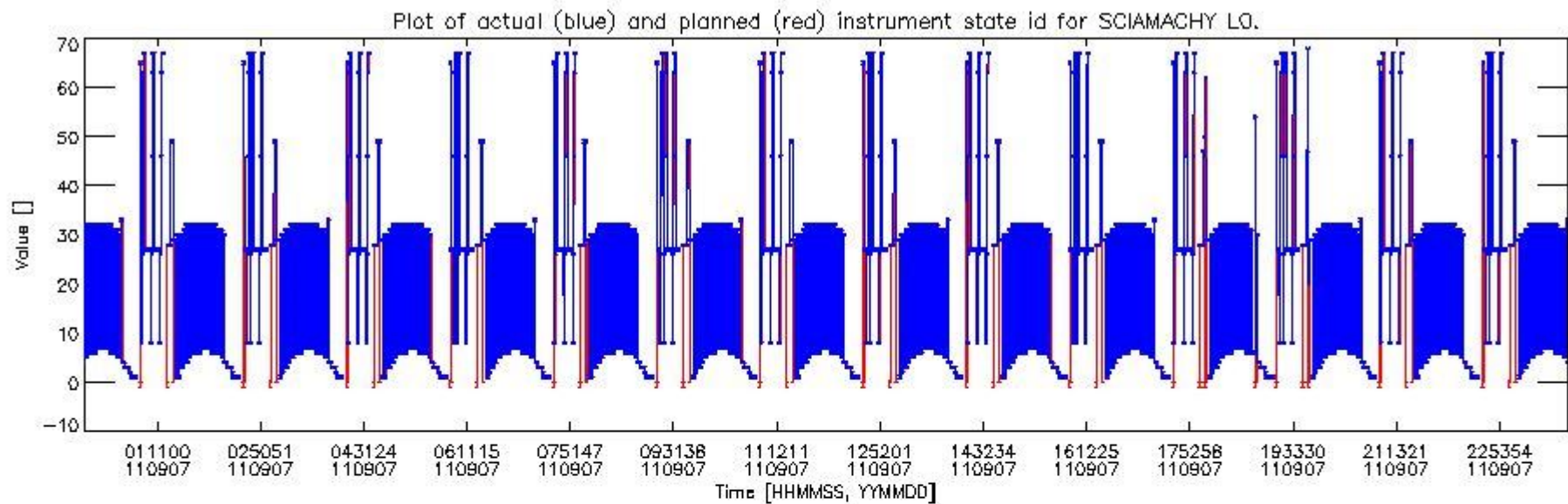


### 0.3 State monitoring

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: **58611**

#	Actual time	Actual value	Planned time	Planned value
0	07SEP2011 00:00:38.732974	32	07SEP2011 00:00:38.732974	5
1	07SEP2011 00:00:39.357974	32	07SEP2011 00:00:39.357974	5
2	07SEP2011 00:00:39.732974	32	07SEP2011 00:00:39.732974	5
3	07SEP2011 00:00:40.107974	32	07SEP2011 00:00:40.107974	5
4	07SEP2011 00:00:40.670474	32	07SEP2011 00:00:40.670474	5
5	07SEP2011 00:00:41.045474	32	07SEP2011 00:00:41.045474	5
6	07SEP2011 00:00:41.420474	32	07SEP2011 00:00:41.420474	5
7	07SEP2011 00:00:41.795474	32	07SEP2011 00:00:41.795474	5
8	07SEP2011 00:00:42.357974	32	07SEP2011 00:00:42.357974	5
9	07SEP2011 00:00:42.732974	32	07SEP2011 00:00:42.732974	5
10	07SEP2011 00:00:43.107974	32	07SEP2011 00:00:43.107974	5
11	07SEP2011 00:00:43.482974	32	07SEP2011 00:00:43.482974	5
12	07SEP2011 00:00:43.732974	32	07SEP2011 00:00:43.732974	5
13	07SEP2011 00:00:44.045474	32	07SEP2011 00:00:44.045474	5
14	07SEP2011 00:00:44.420474	32	07SEP2011 00:00:44.420474	5
15	07SEP2011 00:00:44.795474	32	07SEP2011 00:00:44.795474	5
16	07SEP2011 00:00:45.170474	32	07SEP2011 00:00:45.170474	5
17	07SEP2011 00:00:45.732974	32	07SEP2011 00:00:45.732974	5
18	07SEP2011 00:00:46.107974	32	07SEP2011 00:00:46.107974	5
19	07SEP2011 00:00:46.482974	32	07SEP2011 00:00:46.482974	5
...	...	...	...	...



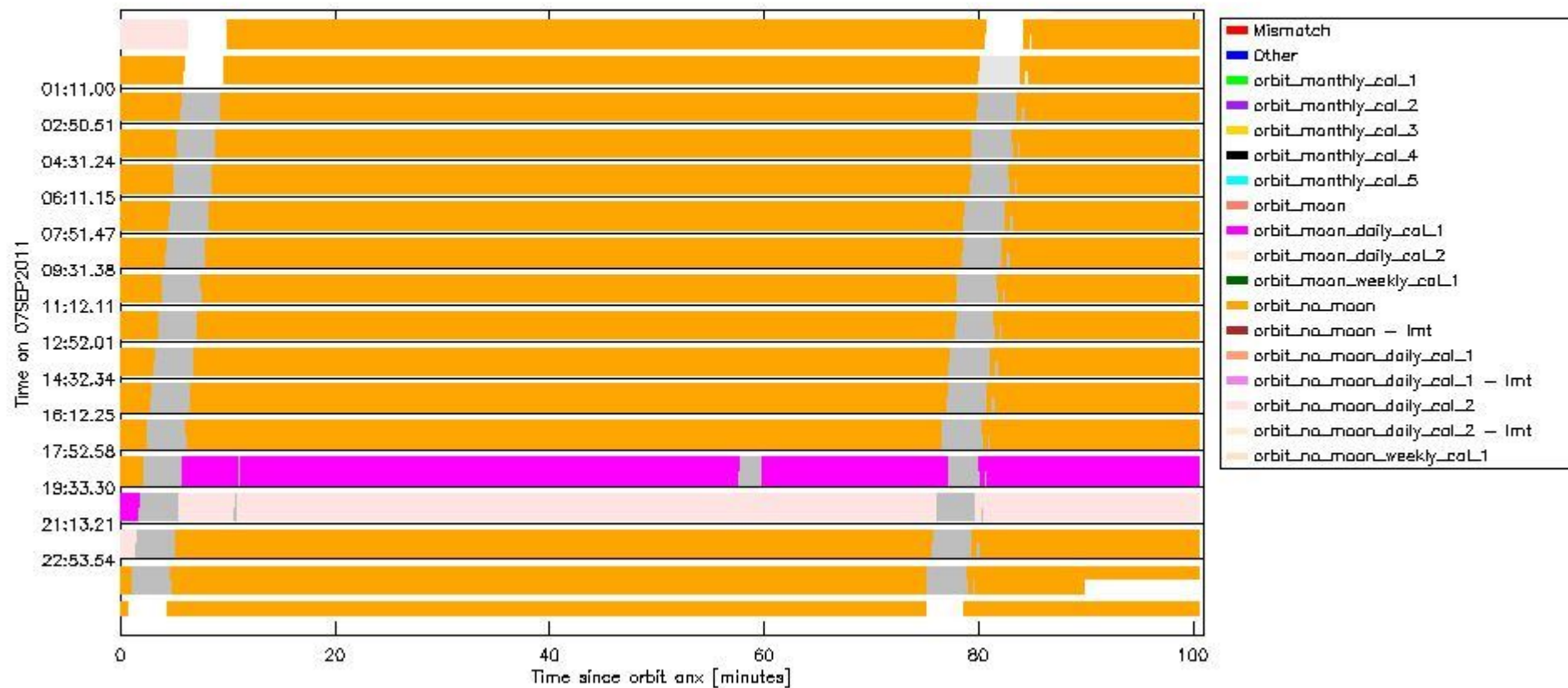
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110907\_5.PNG

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 07SEP2011.  
 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\_20110907\_6.PNG

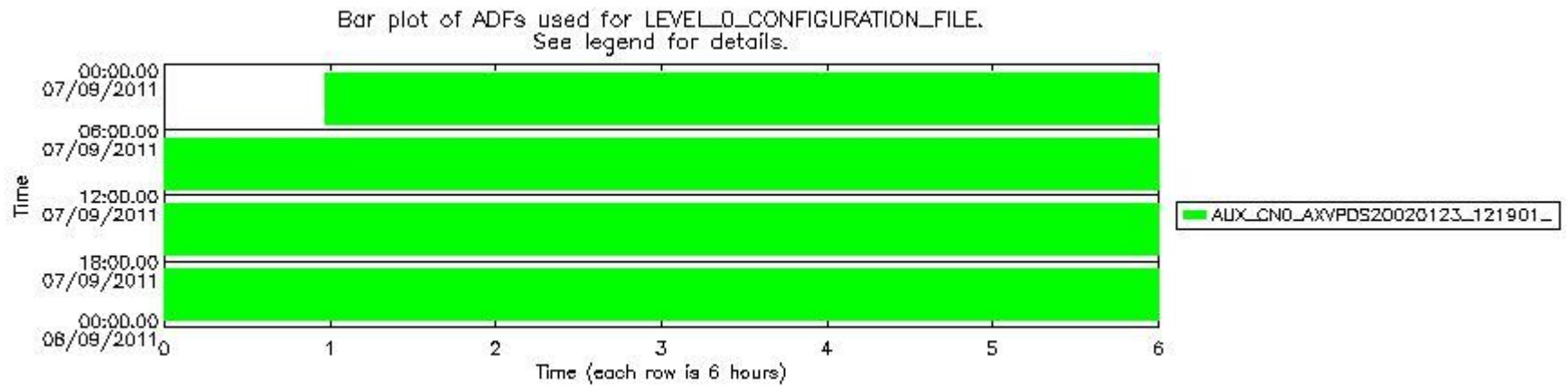
## 0.4 ADF monitoring

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

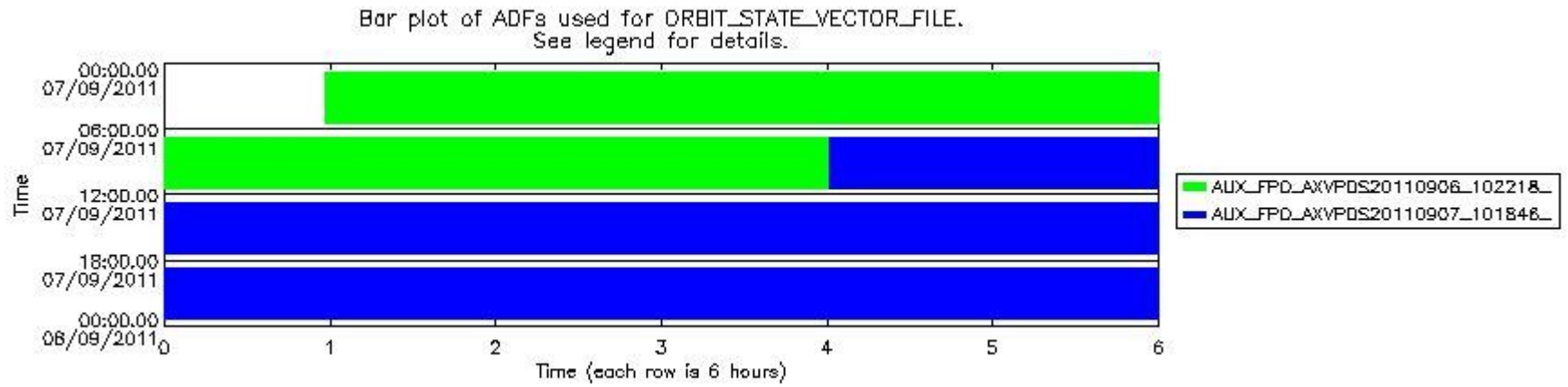
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

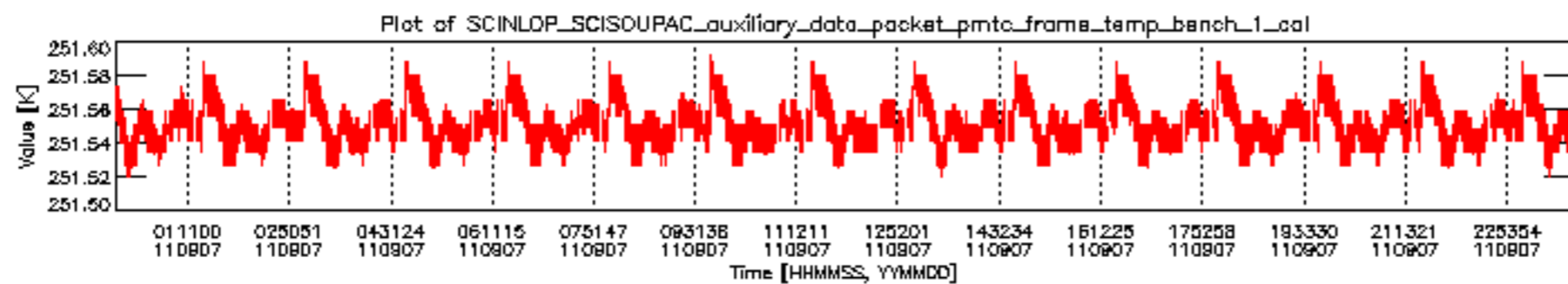
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110906_102218_20110905_190629_20110915_212014
2	AUX_FPO_AXVPDS20110907_101846_20110906_182945_20110916_204330



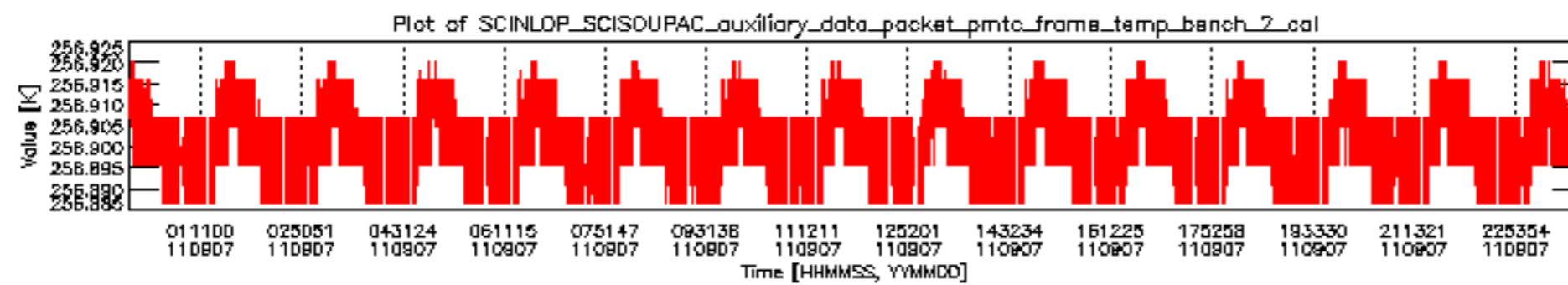
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110907\_7.PNG

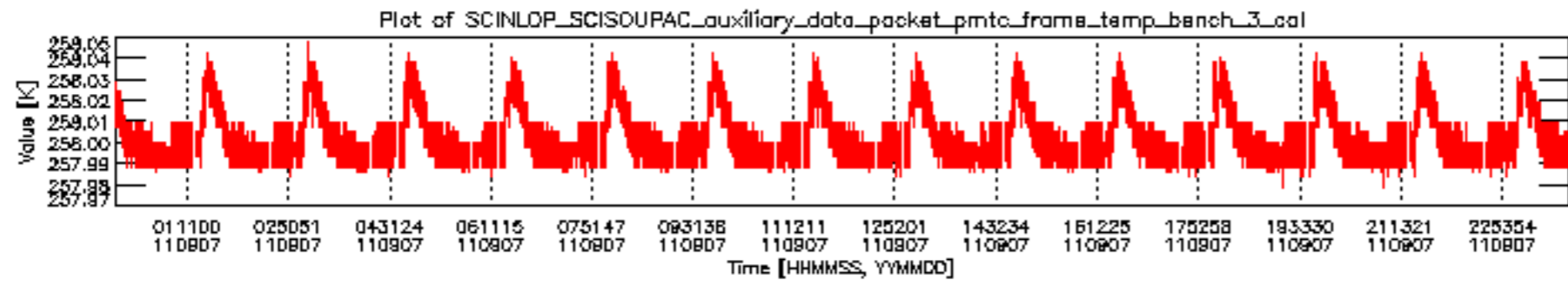


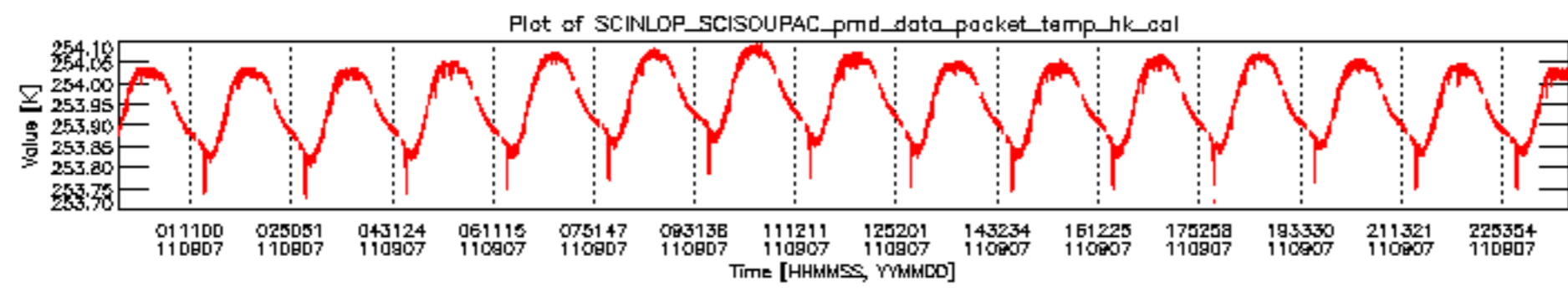
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110907\_8.PNG

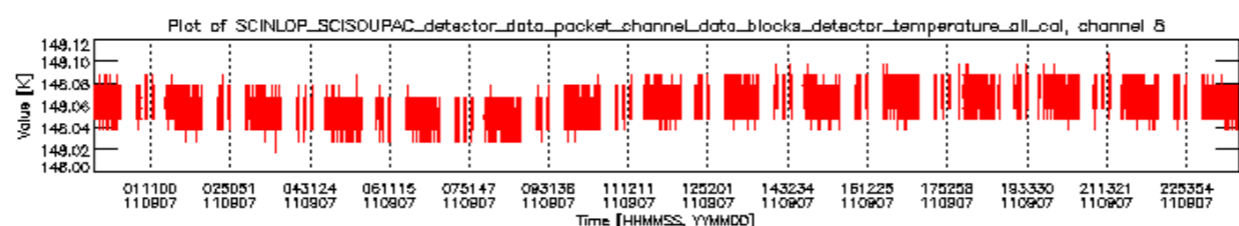
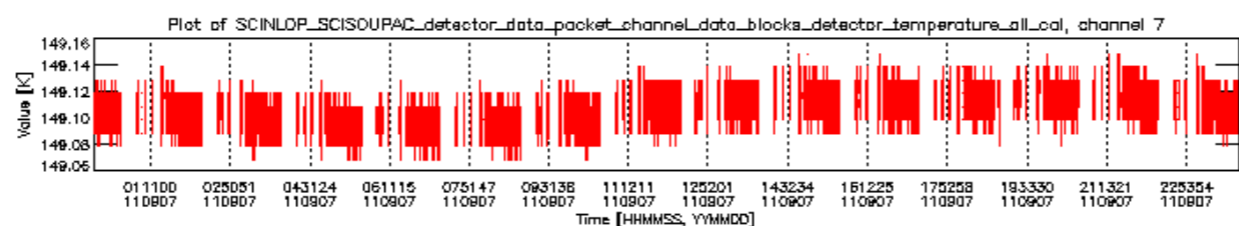
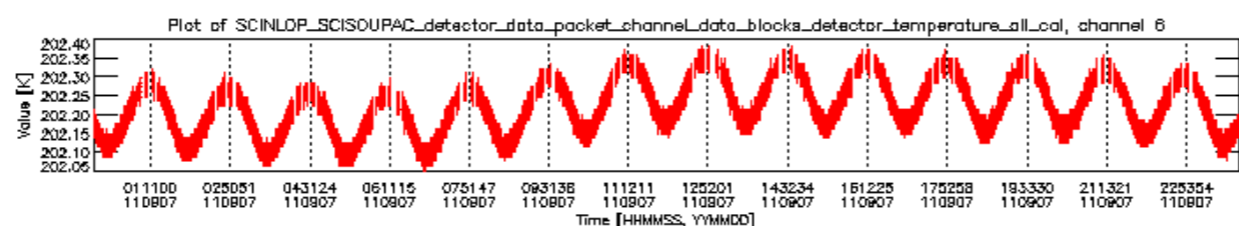
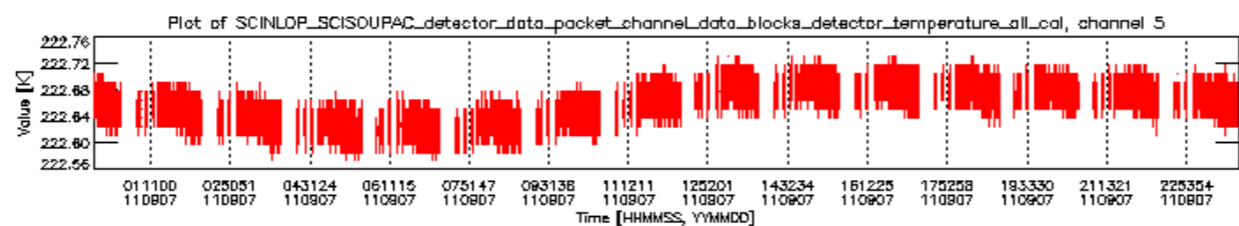
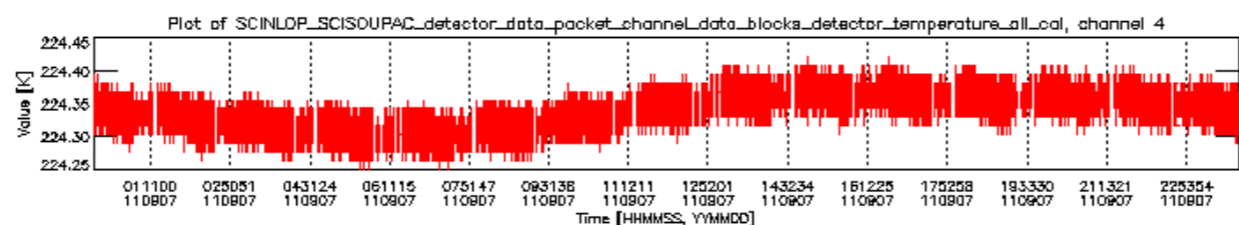
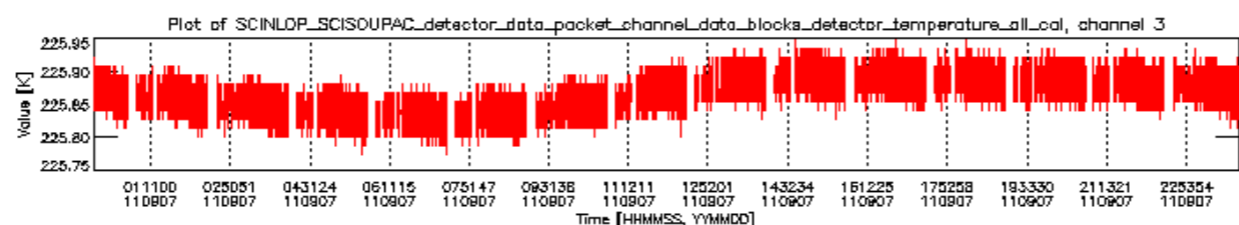
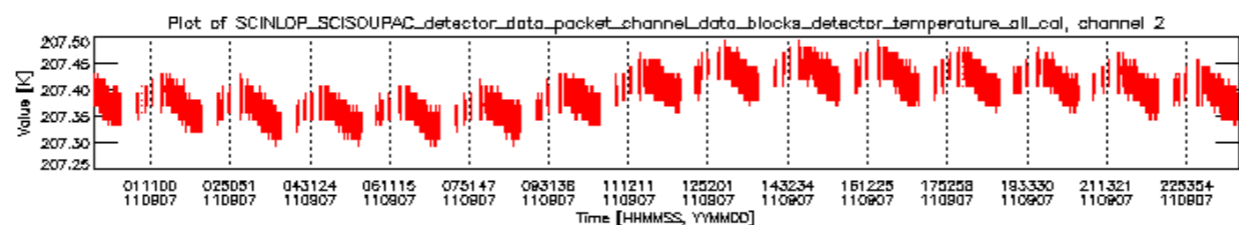
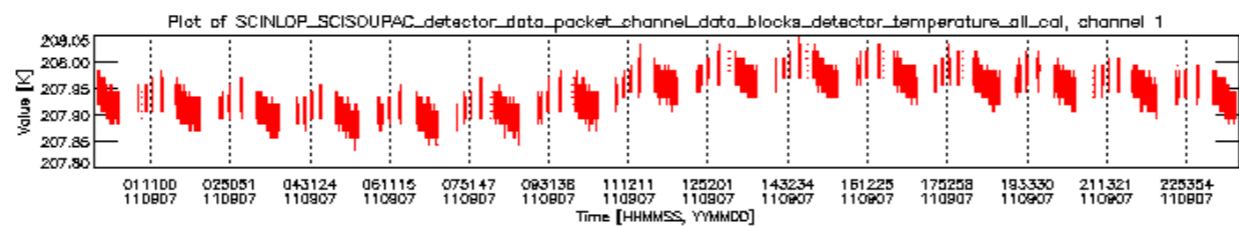




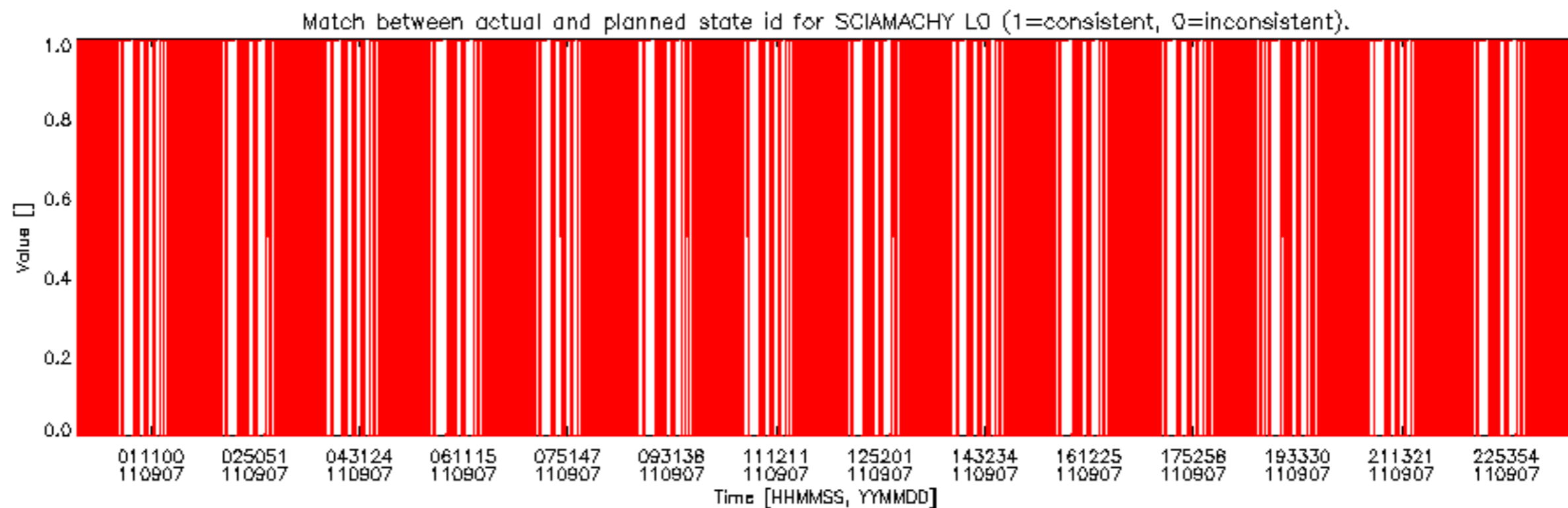
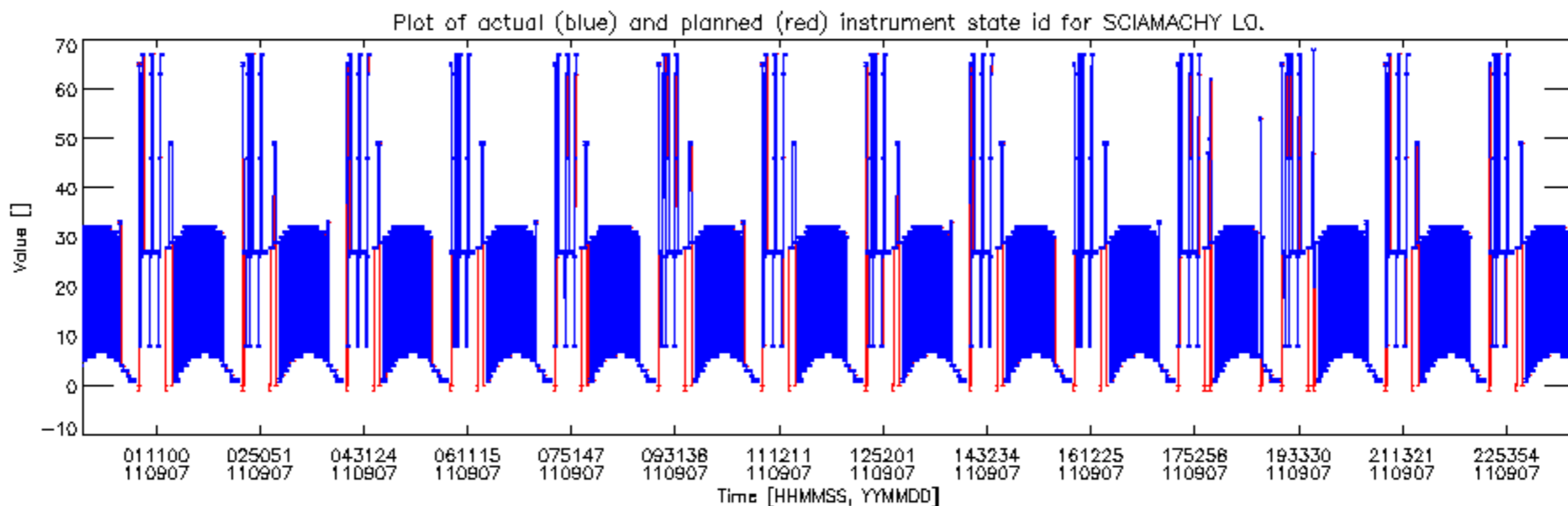












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 07SEP2011.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

