

## 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	15OCT2011 03:12:32
Data source version	KSPT_L0/4504-N
Processing scope for products	08OCT2011 00:00:00 to 09OCT2011 00:00:00
Start time of first product within scope	08OCT2011 00:22:49
Stop time of last product within scope	09OCT2011 01:26:25
Total number of Level 0 products	16
Number of Level 0 products with errors	1

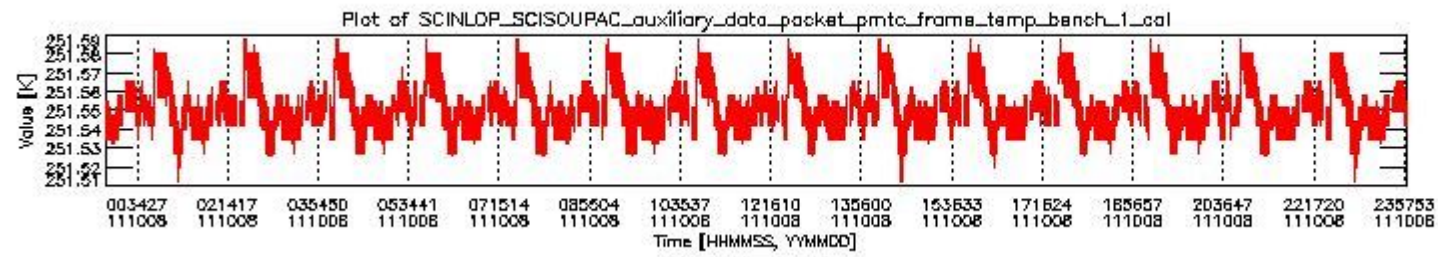
### 0.1.2 Summary per product

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

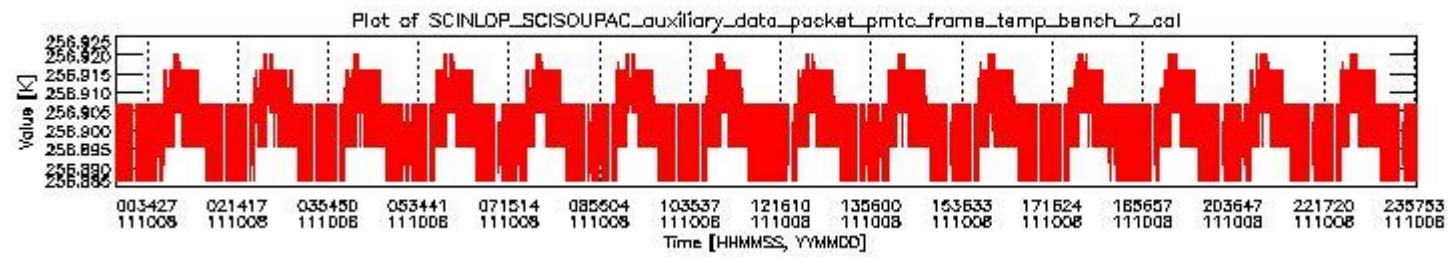
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20111008_002249_000056233107_00217_50231_7289.N1	08OCT2011 00:22:49	08OCT2011 01:56:31	0	0	0	0	0
1	SCI_NL__OPNPDE20111008_020135_000043573107_00218_50232_7290.N1	08OCT2011 02:01:35	08OCT2011 03:14:12	0	0	0	0	0
2	SCI_NL__OPNPDE20111008_031412_000061233107_00219_50233_7291.N1	08OCT2011 03:14:12	08OCT2011 04:56:15	0	0	0	0	0
3	SCI_NL__OPNPDE20111008_045521_000060153107_00220_50234_7292.N1	08OCT2011 04:55:21	08OCT2011 06:35:36	0	0	0	0	0
4	SCI_NL__OPNPDK20111008_063536_000040513107_00221_50235_6026.N1	08OCT2011 06:35:36	08OCT2011 07:43:06	0	0	0	0	0
5	SCI_NL__OPNPDK20111008_074158_000062063107_00222_50236_6027.N1	08OCT2011 07:41:58	08OCT2011 09:25:23	0	0	0	0	0
6	SCI_NL__OPNPDK20111008_092429_000058773107_00223_50237_6028.N1	08OCT2011 09:24:29	08OCT2011 11:02:26	0	0	0	0	0
7	SCI_NL__OPNPDK20111008_110132_000058923107_00224_50238_6029.N1	08OCT2011 11:01:32	08OCT2011 12:39:44	0	0	0	0	0
8	SCI_NL__OPNPDK20111008_123850_000060693107_00225_50239_6030.N1	08OCT2011 12:38:50	08OCT2011 14:19:58	0	0	0	0	0
9	SCI_NL__OPNPDK20111008_141850_000059603107_00226_50240_6031.N1	08OCT2011 14:18:50	08OCT2011 15:58:10	0	0	0	0	0
10	SCI_NL__OPNPDK20111008_155810_000058253107_00227_50241_6032.N1	08OCT2011 15:58:10	08OCT2011 17:35:15	0	0	0	0	0
11	SCI_NL__OPNPDK20111008_173515_000059043107_00228_50242_6033.N1	08OCT2011 17:35:15	08OCT2011 19:13:39	0	0	0	0	0
12	SCI_NL__OPNPDK20111008_191339_000059593107_00229_50243_6034.N1	08OCT2011 19:13:39	08OCT2011 20:52:58	1	1	0	0	0
13	SCI_NL__OPNPDE20111008_205204_000043453107_00230_50244_7293.N1	08OCT2011 20:52:04	08OCT2011 22:04:29	0	0	0	0	0
14	SCI_NL__OPNPDE20111008_220429_000060583107_00230_50244_7294.N1	08OCT2011 22:04:29	08OCT2011 23:45:27	0	0	0	0	0
15	SCI_NL__OPNPDE20111008_234443_000061023107_00231_50245_7295.N1	08OCT2011 23:44:43	09OCT2011 01:26:25	0	0	0	0	0

## 0.2 Product Quality Indicators

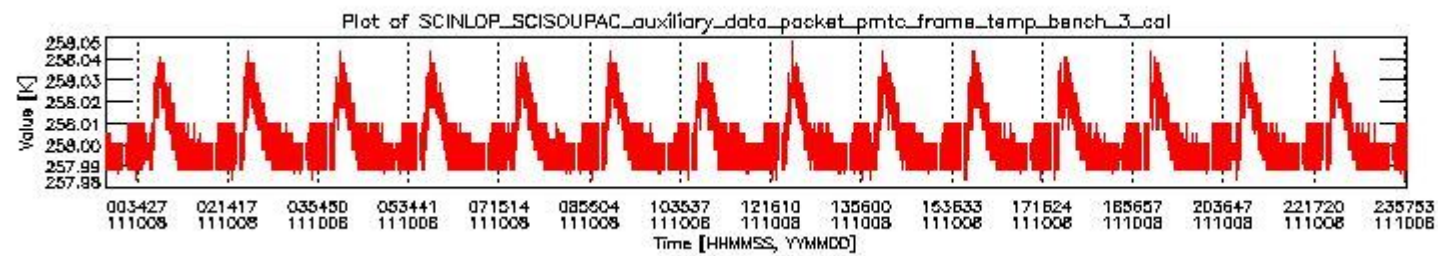
This section shows information about product quality, currently temperatures.



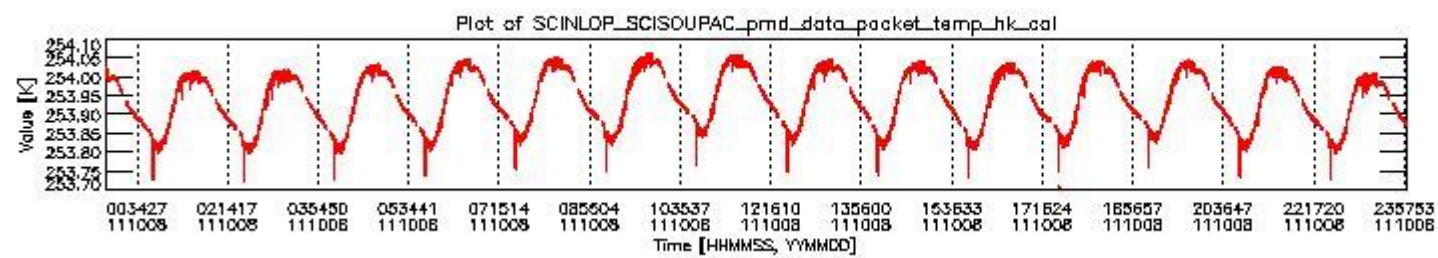
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111008\_0.PNG



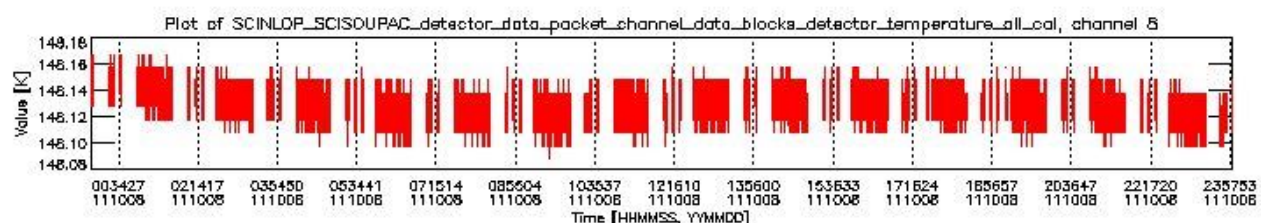
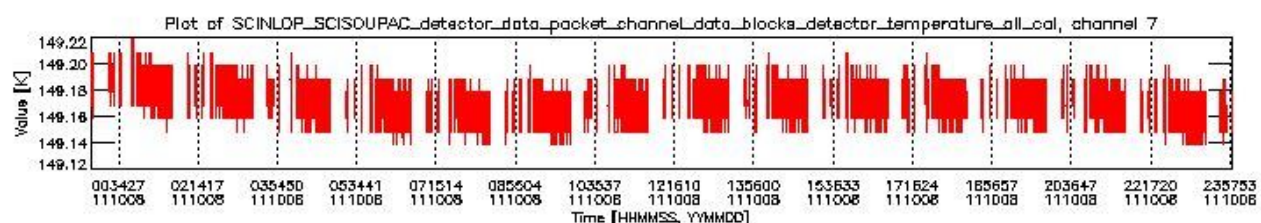
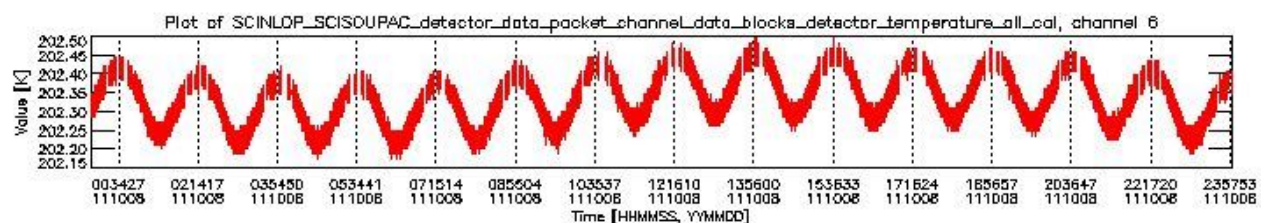
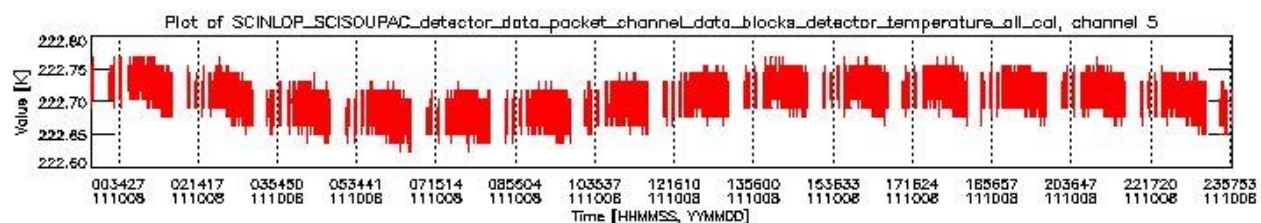
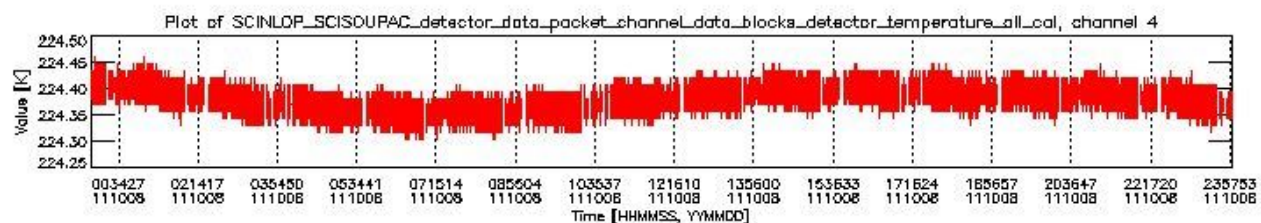
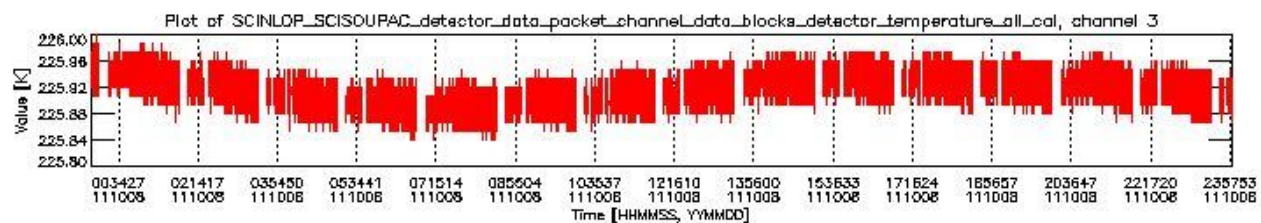
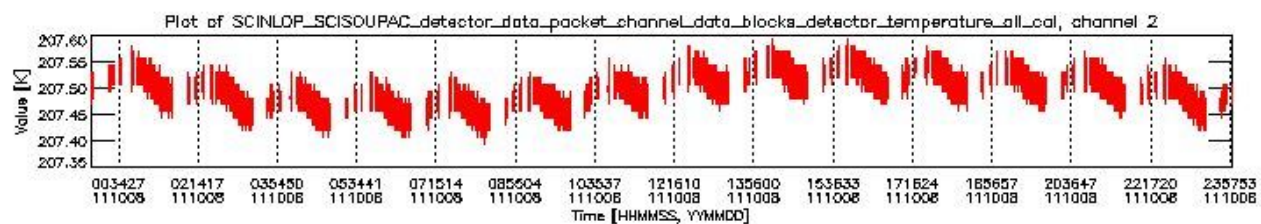
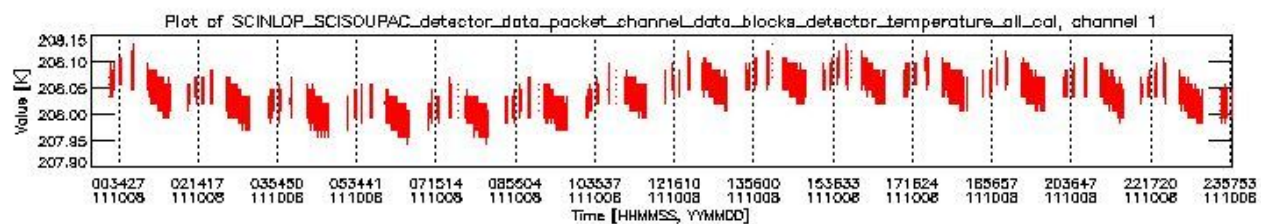
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111008\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111008\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111008\_3.PNG

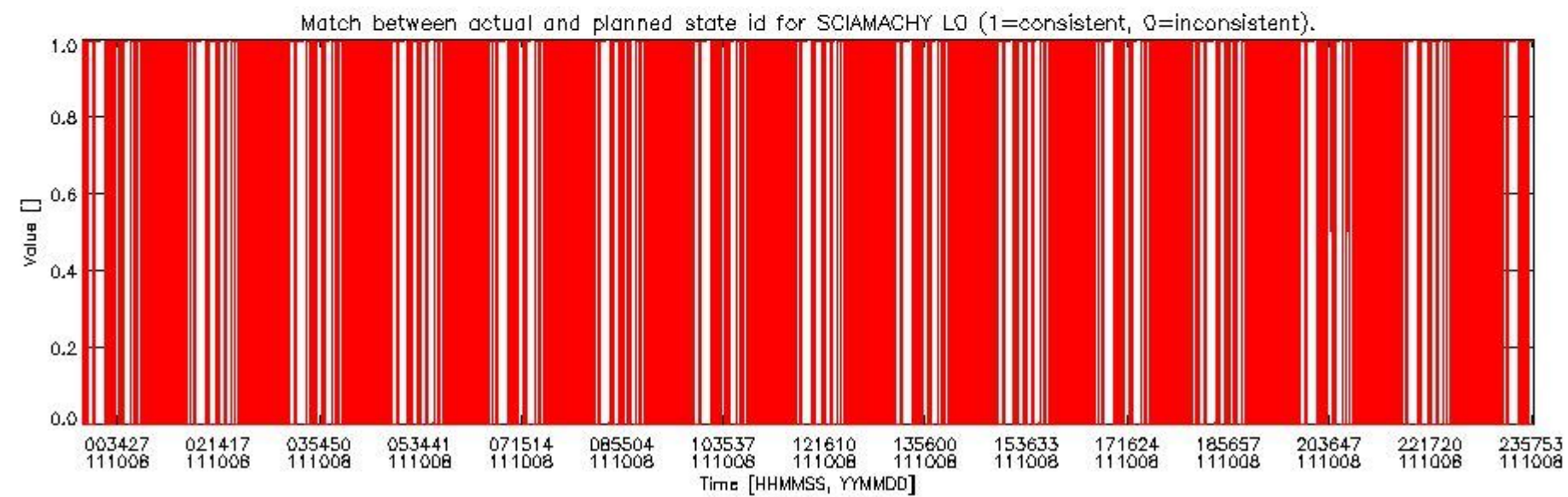
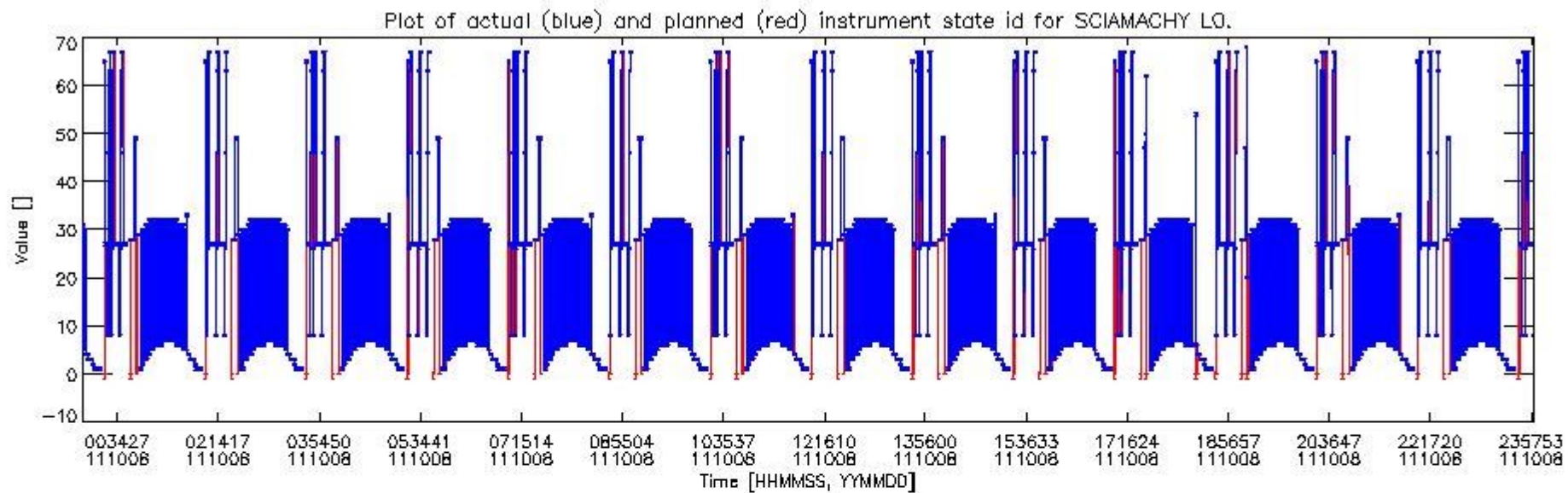


### 0.3 State monitoring

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: **52287**

#	Actual time	Actual value	Planned time	Planned value
0	08OCT2011 00:00:00.005930	31	08OCT2011 00:00:00.005930	6
1	08OCT2011 00:00:00.380930	31	08OCT2011 00:00:00.380930	6
2	08OCT2011 00:00:00.943430	31	08OCT2011 00:00:00.943430	6
3	08OCT2011 00:00:01.318430	31	08OCT2011 00:00:01.318430	6
4	08OCT2011 00:00:01.693430	31	08OCT2011 00:00:01.693430	6
5	08OCT2011 00:00:02.068430	31	08OCT2011 00:00:02.068430	6
6	08OCT2011 00:00:02.255930	31	08OCT2011 00:00:02.255930	6
7	08OCT2011 00:00:02.630930	31	08OCT2011 00:00:02.630930	6
8	08OCT2011 00:00:03.005930	31	08OCT2011 00:00:03.005930	6
9	08OCT2011 00:00:03.380930	31	08OCT2011 00:00:03.380930	6
10	08OCT2011 00:00:03.755930	31	08OCT2011 00:00:03.755930	6
11	08OCT2011 00:00:46.435624	5	08OCT2011 00:00:46.435624	31
12	08OCT2011 00:00:46.685624	5	08OCT2011 00:00:46.685624	31
13	08OCT2011 00:00:46.810624	5	08OCT2011 00:00:46.810624	31
14	08OCT2011 00:00:46.935624	5	08OCT2011 00:00:46.935624	31
15	08OCT2011 00:00:47.060624	5	08OCT2011 00:00:47.060624	31
16	08OCT2011 00:00:47.185624	5	08OCT2011 00:00:47.185624	31
17	08OCT2011 00:00:47.310624	5	08OCT2011 00:00:47.310624	31
18	08OCT2011 00:00:47.435624	5	08OCT2011 00:00:47.435624	31
19	08OCT2011 00:00:47.560624	5	08OCT2011 00:00:47.560624	31
...	...	...	...	...

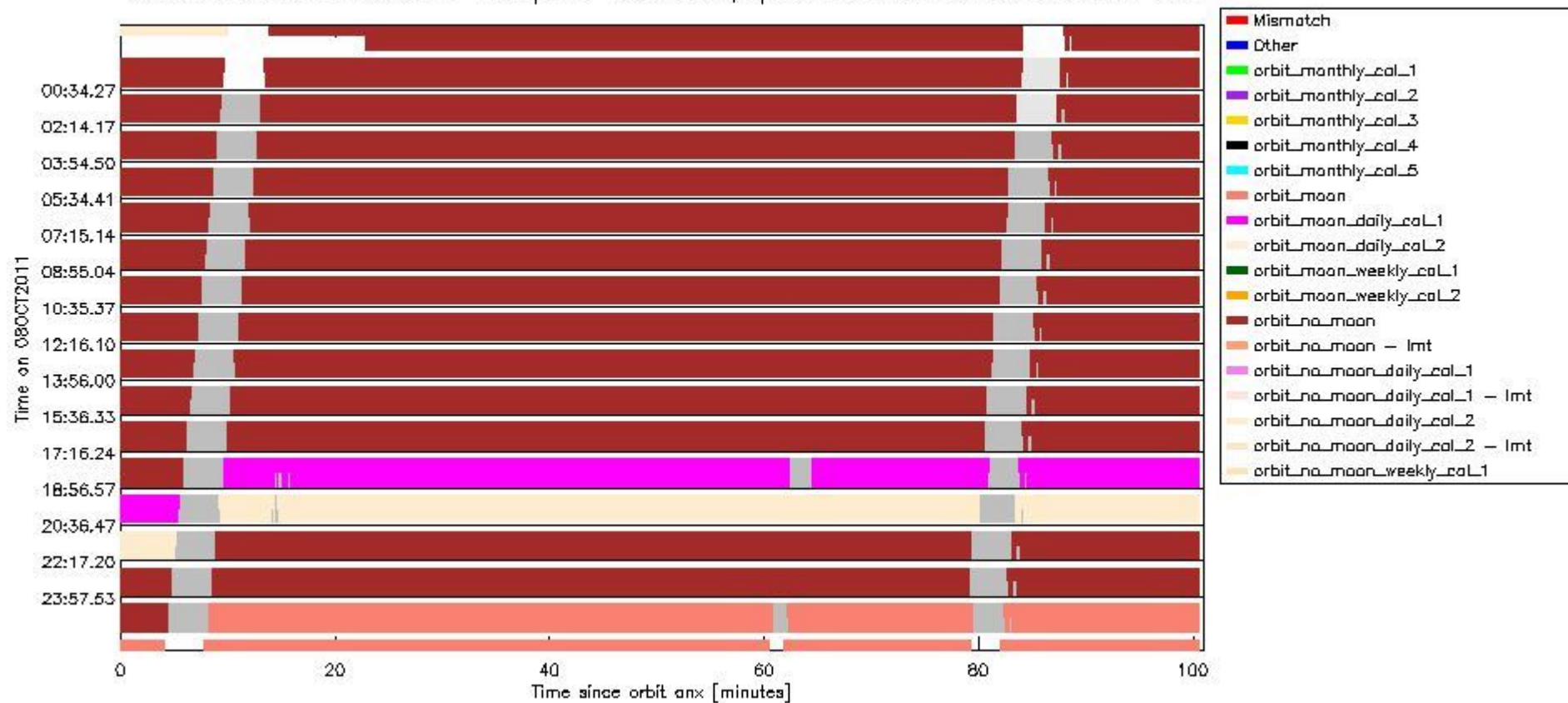


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111008\_5.PNG

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 08OCT2011.  
 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\_20111008\_6.PNG

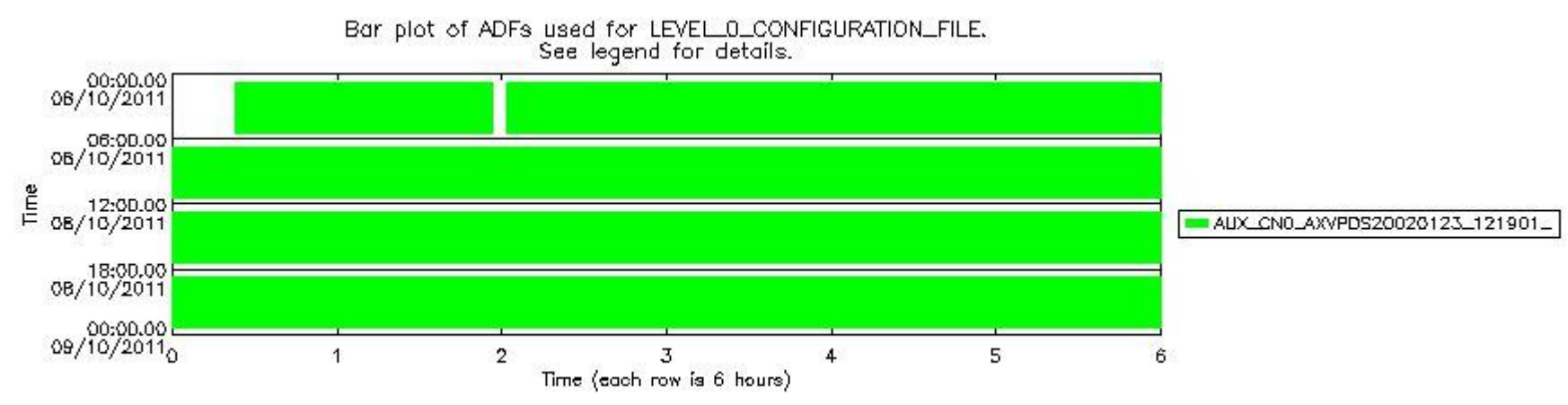
## 0.4 ADF monitoring

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

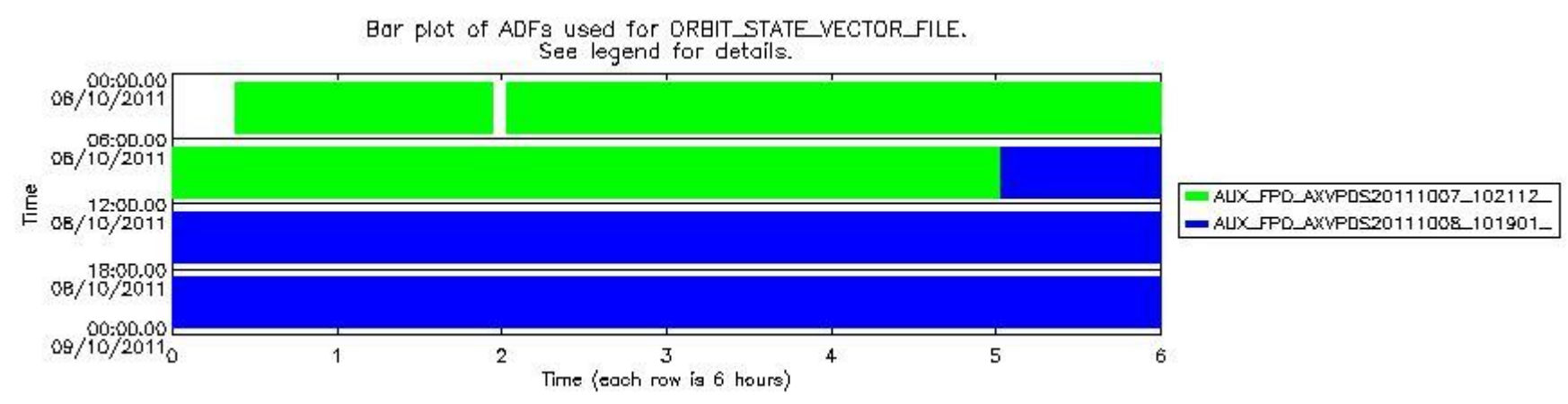
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

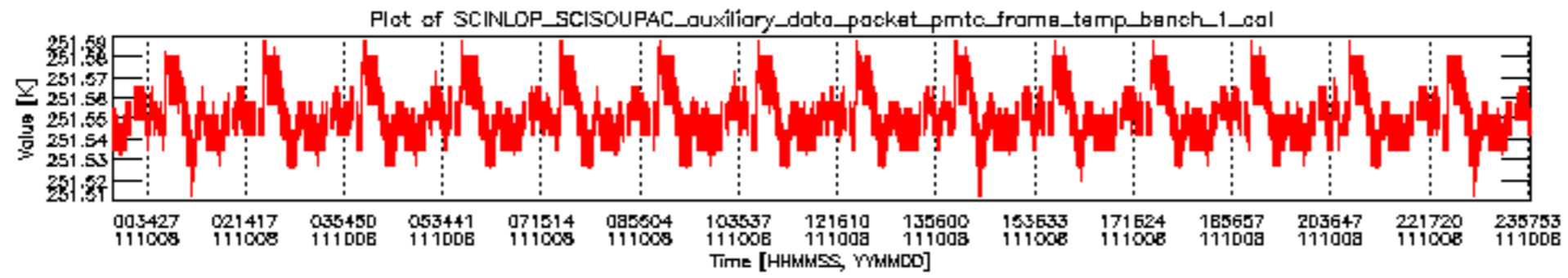
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
<b>1</b>	<b>AUX_FPO_AXVPDS20111007_102112_20111006_183003_20111016_204346</b>
<b>2</b>	<b>AUX_FPO_AXVPDS20111008_101901_20111007_193333_20111017_200701</b>



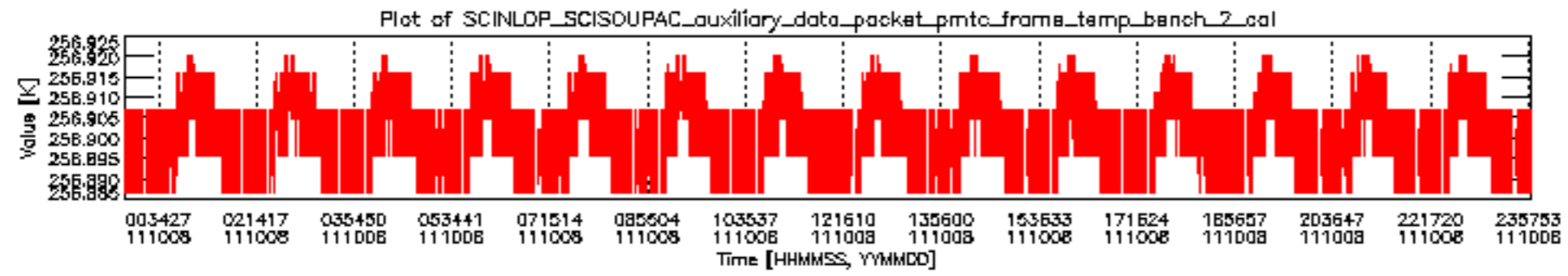
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111008\_7.PNG

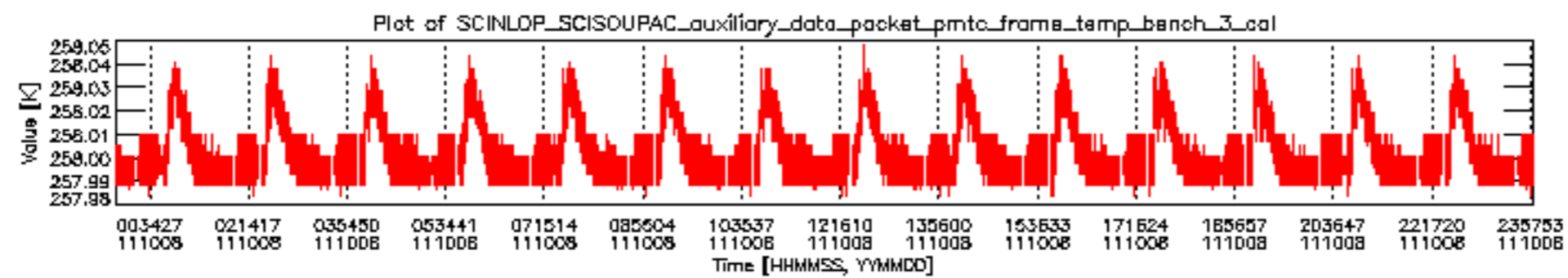


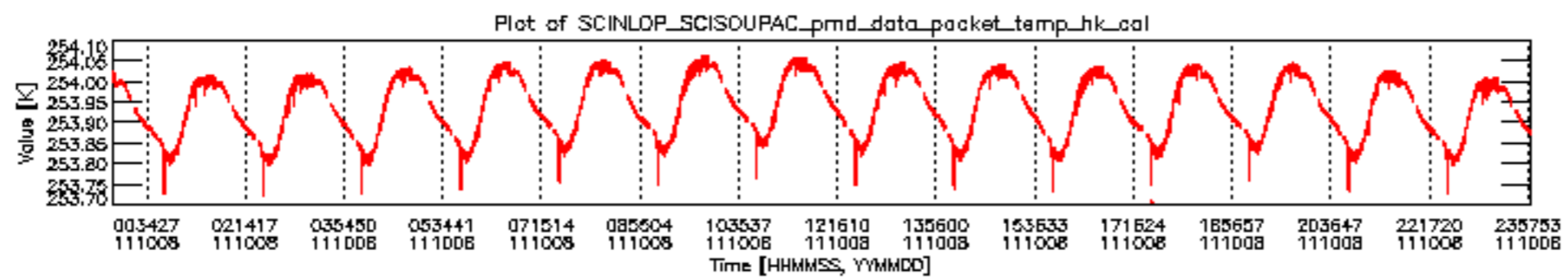
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20111008\_8.PNG

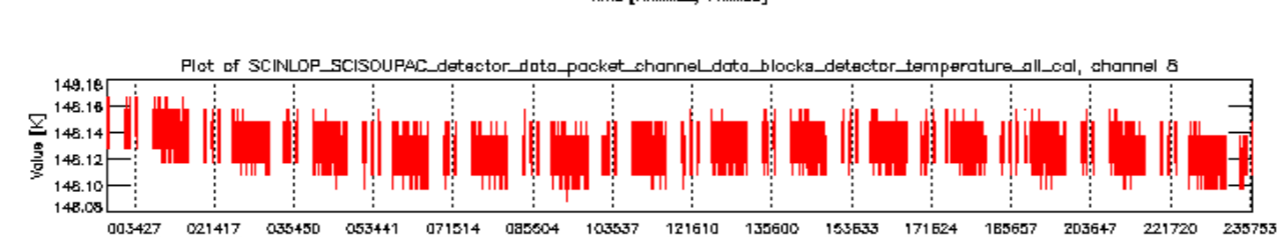
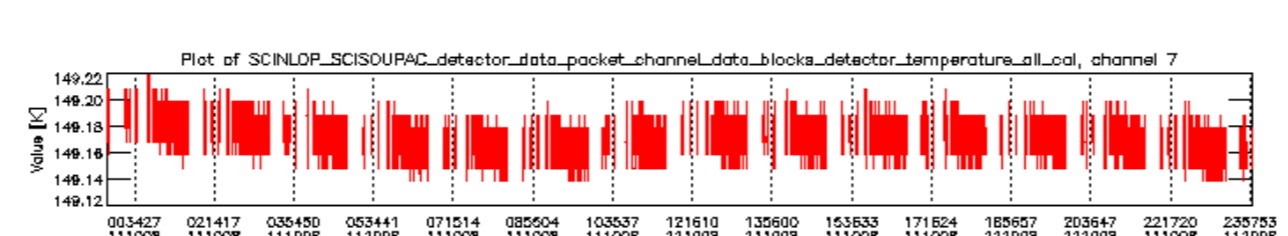
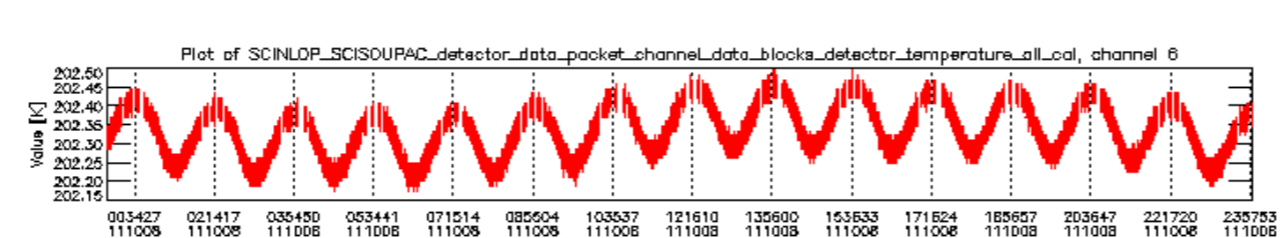
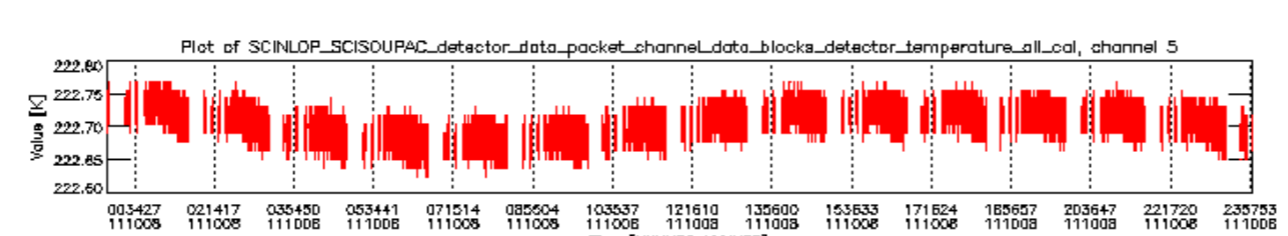
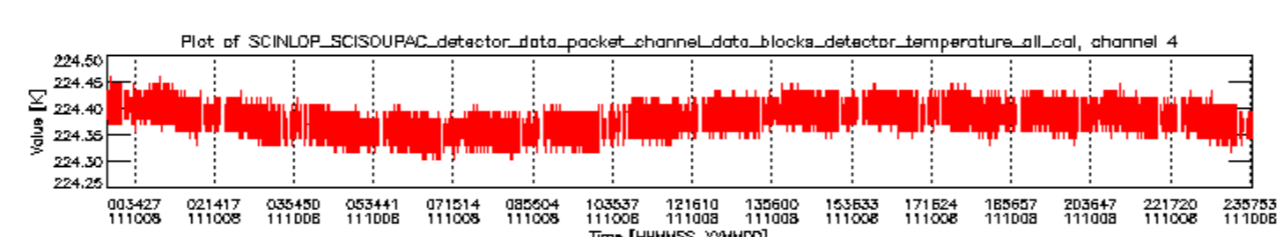
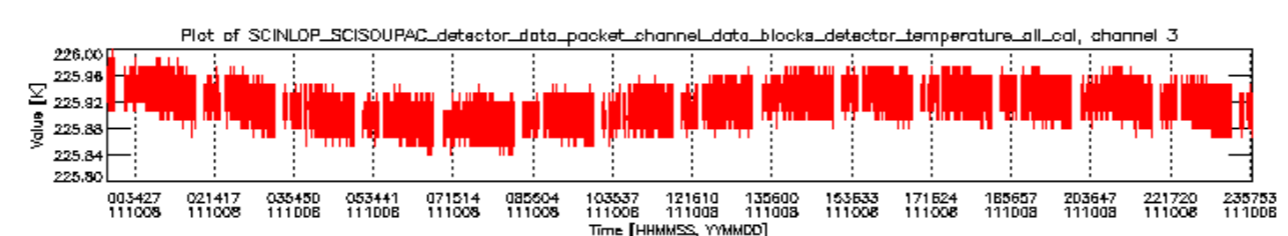
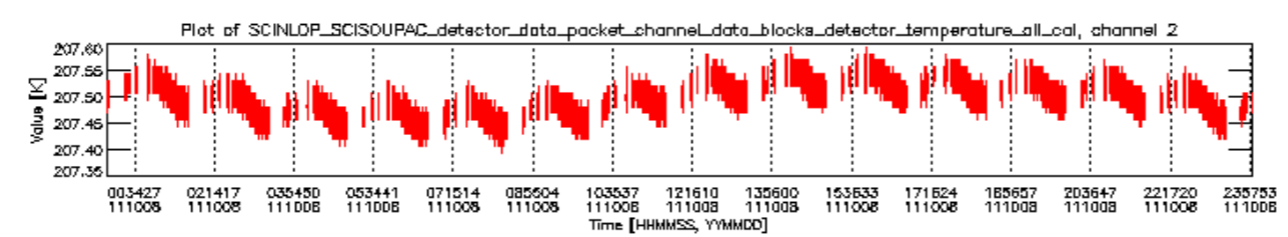
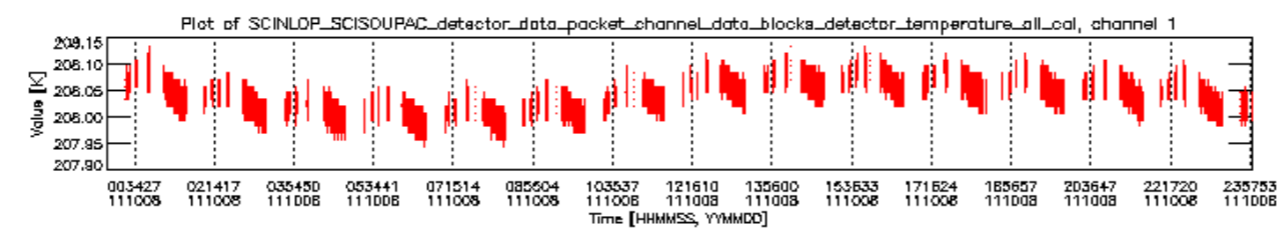


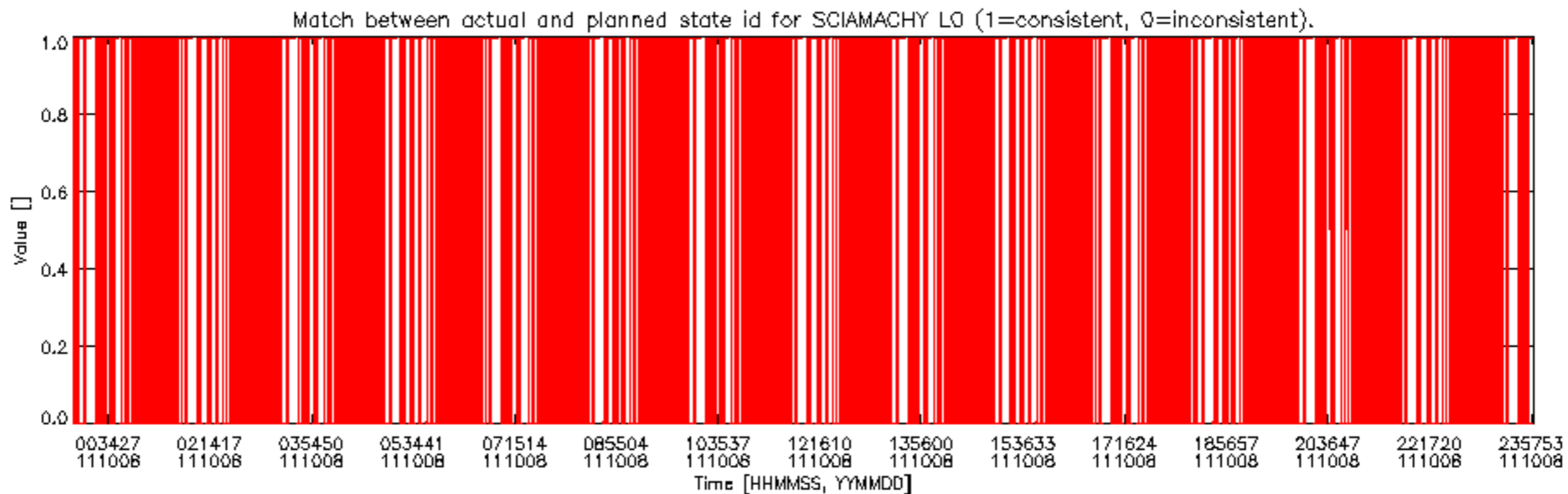
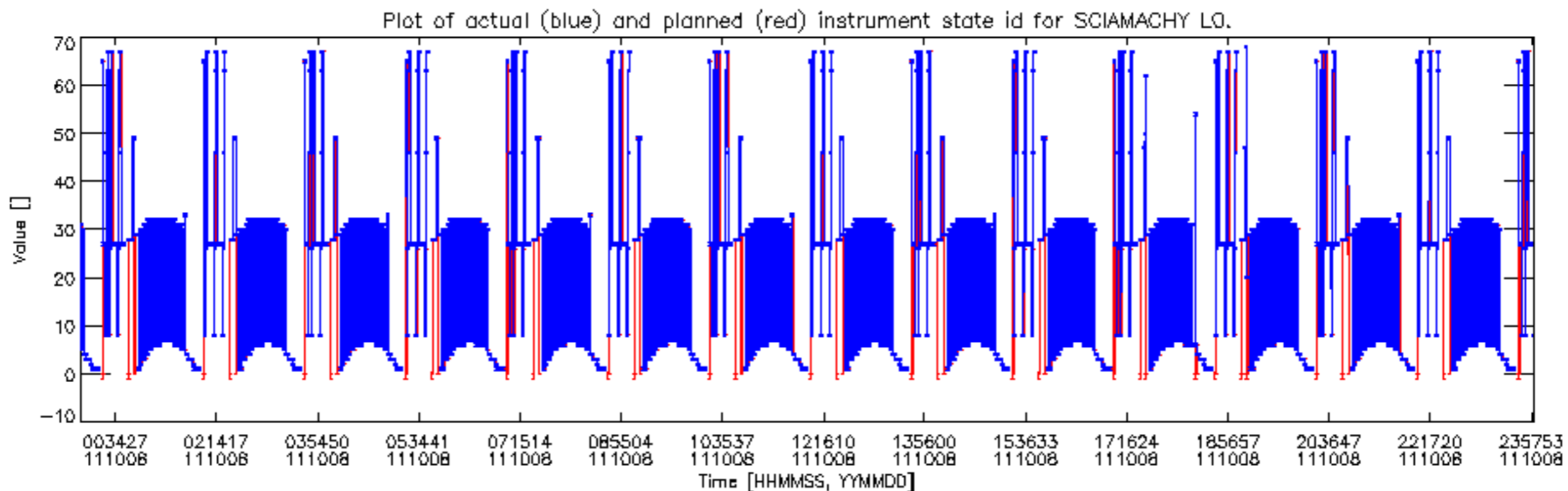












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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