

## 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	05OCT2010 02:27:42
Data source version	<Any version>
Processing scope for products	29SEP2010 00:00:00 to 30SEP2010 00:00:00
Start time of first product within scope	29SEP2010 01:35:20
Stop time of last product within scope	30SEP2010 01:05:50
Total number of Level 0 products	15
Number of Level 0 products with errors	0

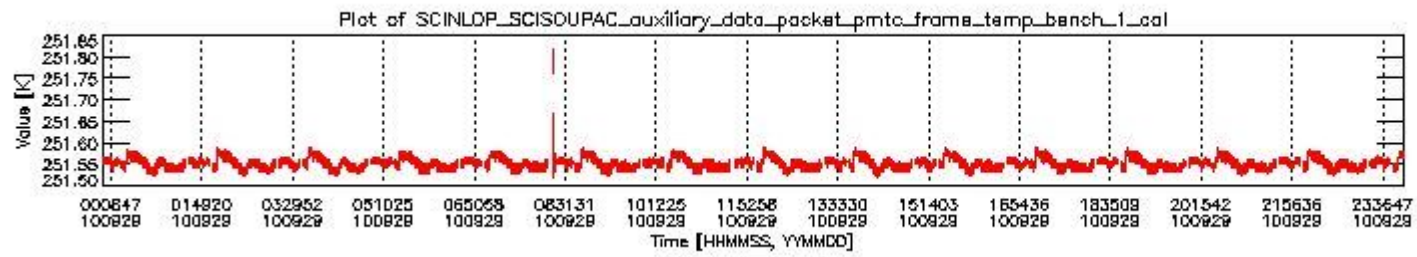
### 0.1.2 Summary per product

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

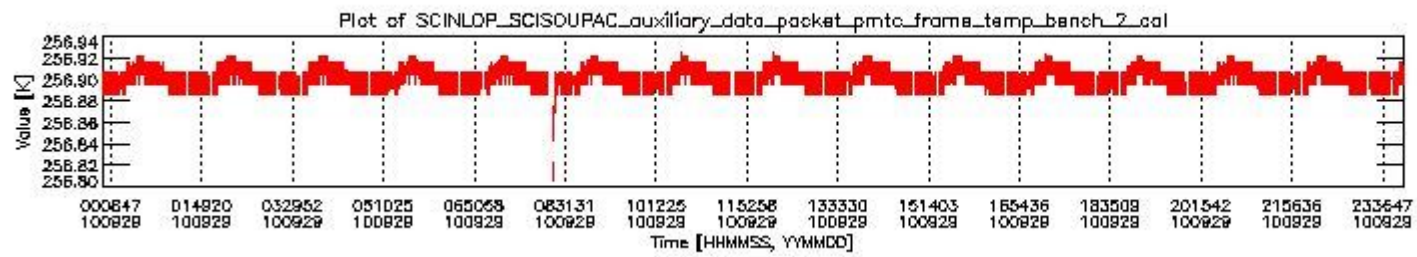
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100929_013520_000043762093_00217_44860_2433.N1	29SEP2010 01:35:20	29SEP2010 02:48:15	0	0	0	0	0
1	SCI_NL__OPNPDE20100929_024707_000062172093_00218_44861_2434.N1	29SEP2010 02:47:07	29SEP2010 04:30:44	0	0	0	0	0
2	SCI_NL__OPNPDE20100929_043044_000060492093_00219_44862_2435.N1	29SEP2010 04:30:44	29SEP2010 06:11:33	0	0	0	0	0
3	SCI_NL__OPNPDK20100929_061024_000041702093_00220_44863_2621.N1	29SEP2010 06:10:24	29SEP2010 07:19:54	0	0	0	0	0
4	SCI_NL__OPNPDK20100929_071954_000060362093_00221_44864_2622.N1	29SEP2010 07:19:54	29SEP2010 09:00:31	0	0	0	0	0
5	SCI_NL__OPNPDK20100929_090031_000060362093_00222_44865_2623.N1	29SEP2010 09:00:31	29SEP2010 10:41:07	0	0	0	0	0
6	SCI_NL__OPNPDK20100929_103959_000058562093_00223_44866_2624.N1	29SEP2010 10:39:59	29SEP2010 12:17:35	0	0	0	0	0
7	SCI_NL__OPNPDK20100929_121530_000060922093_00224_44867_2625.N1	29SEP2010 12:15:30	29SEP2010 13:57:03	0	0	0	0	0
8	SCI_NL__OPNPDK20100929_135458_000060492093_00225_44868_2626.N1	29SEP2010 13:54:58	29SEP2010 15:35:47	0	0	0	0	0
9	SCI_NL__OPNPDK20100929_153439_000060012093_00226_44869_2627.N1	29SEP2010 15:34:39	29SEP2010 17:14:39	0	0	0	0	0
10	SCI_NL__OPNPDK20100929_171248_000059962093_00227_44870_2628.N1	29SEP2010 17:12:48	29SEP2010 18:52:44	0	0	0	0	0
11	SCI_NL__OPNPDK20100929_185244_000059192093_00228_44871_2629.N1	29SEP2010 18:52:44	29SEP2010 20:31:23	0	0	0	0	0
12	SCI_NL__OPNPDE20100929_203123_000043182093_00229_44872_2436.N1	29SEP2010 20:31:23	29SEP2010 21:43:21	0	0	0	0	0
13	SCI_NL__OPNPDE20100929_214237_000061242093_00229_44872_2437.N1	29SEP2010 21:42:37	29SEP2010 23:24:41	0	0	0	0	0
14	SCI_NL__OPNPDE20100929_232357_000061132093_00230_44873_2438.N1	29SEP2010 23:23:57	30SEP2010 01:05:50	0	0	0	0	0

## 0.2 Product Quality Indicators

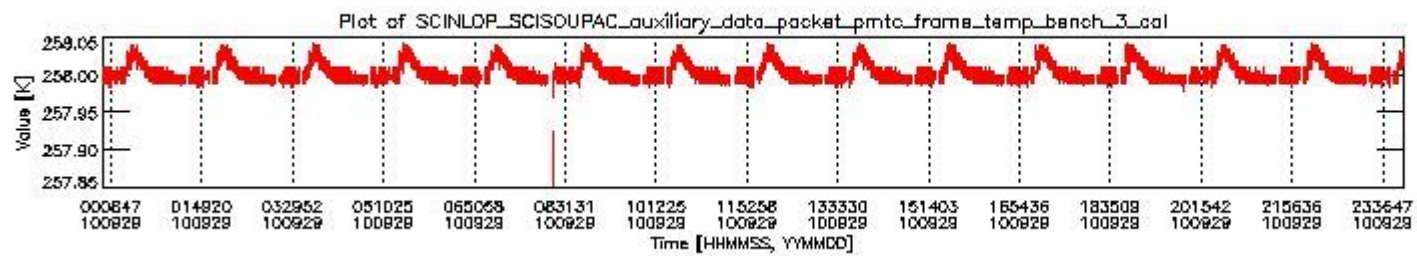
This section shows information about product quality, currently temperatures.



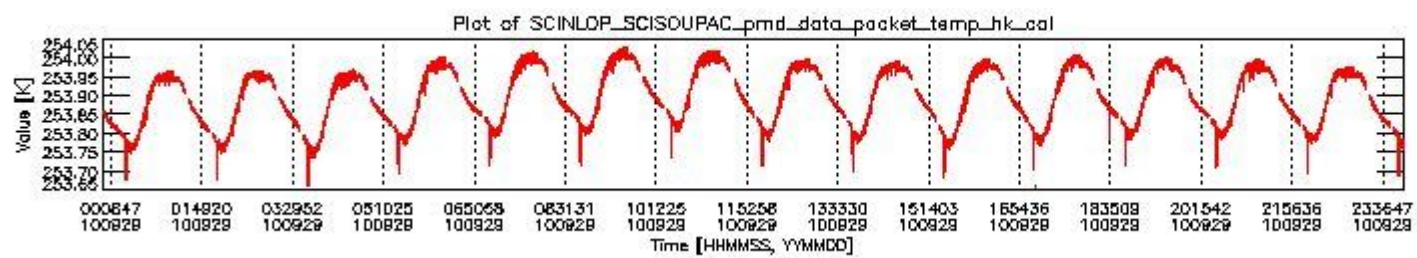
sciamachy\_daily\_report\_level0\_Any\_version\_20100929\_0.PNG



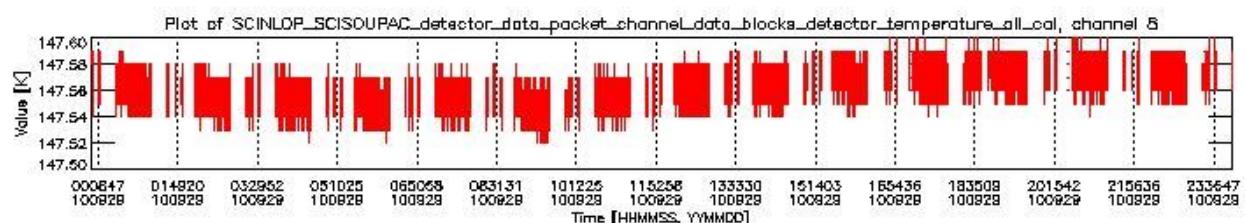
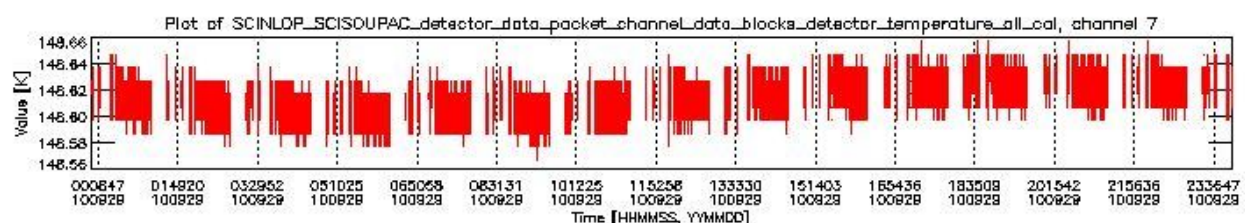
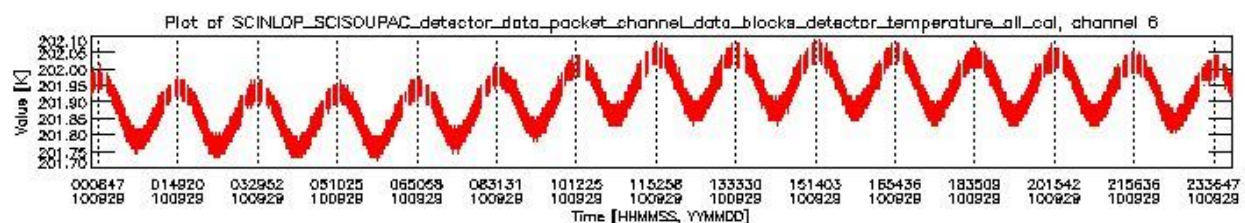
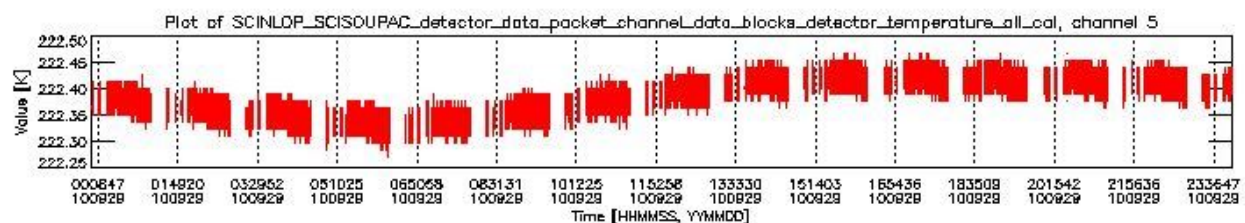
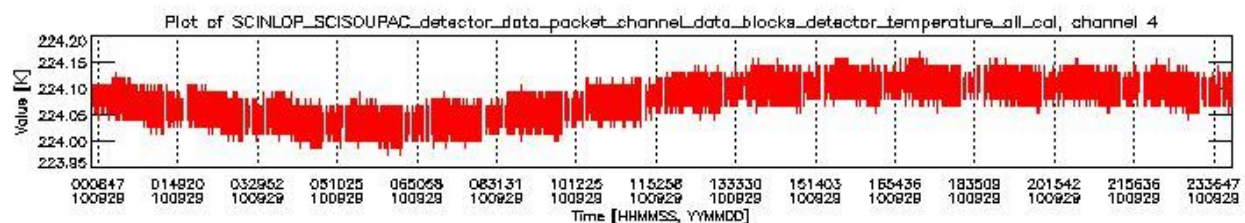
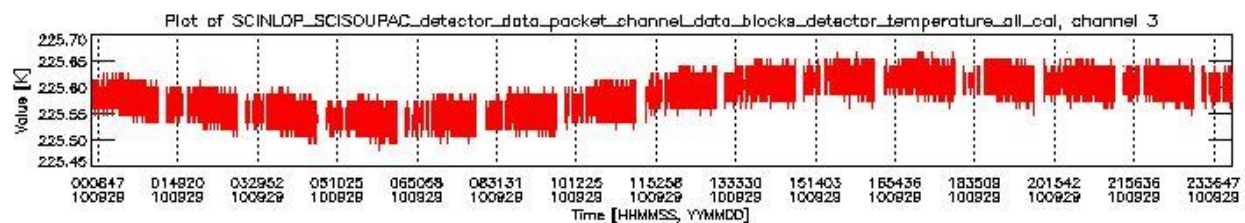
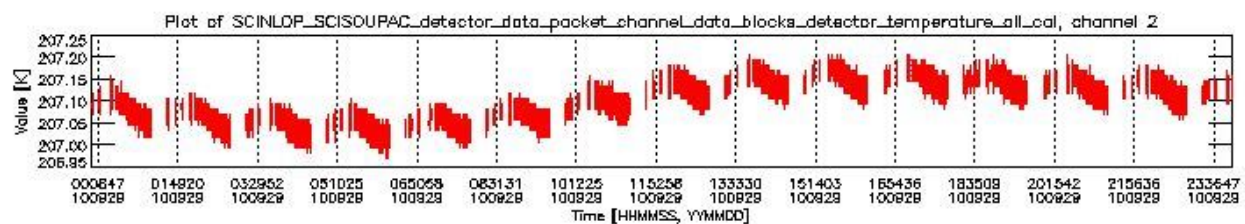
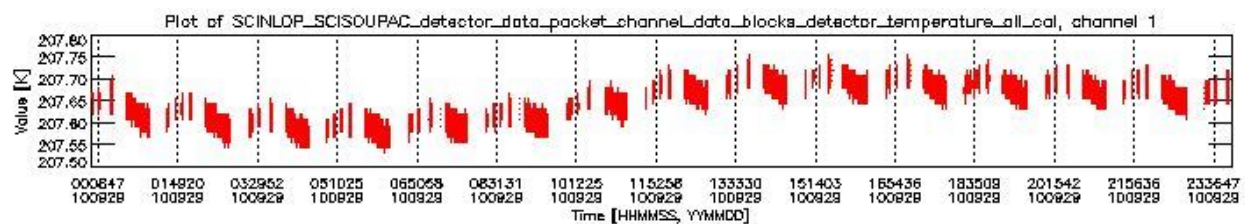
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sciamachy\_daily\_report\_level0\_Any\_version\_20100929\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100929\_3.PNG

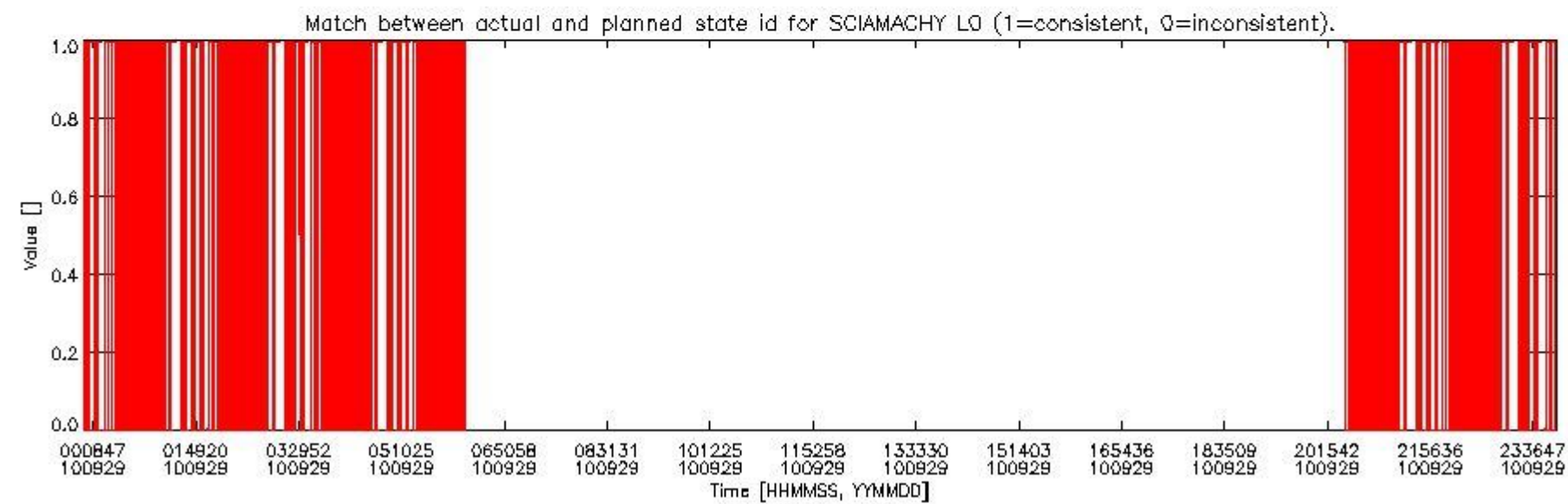
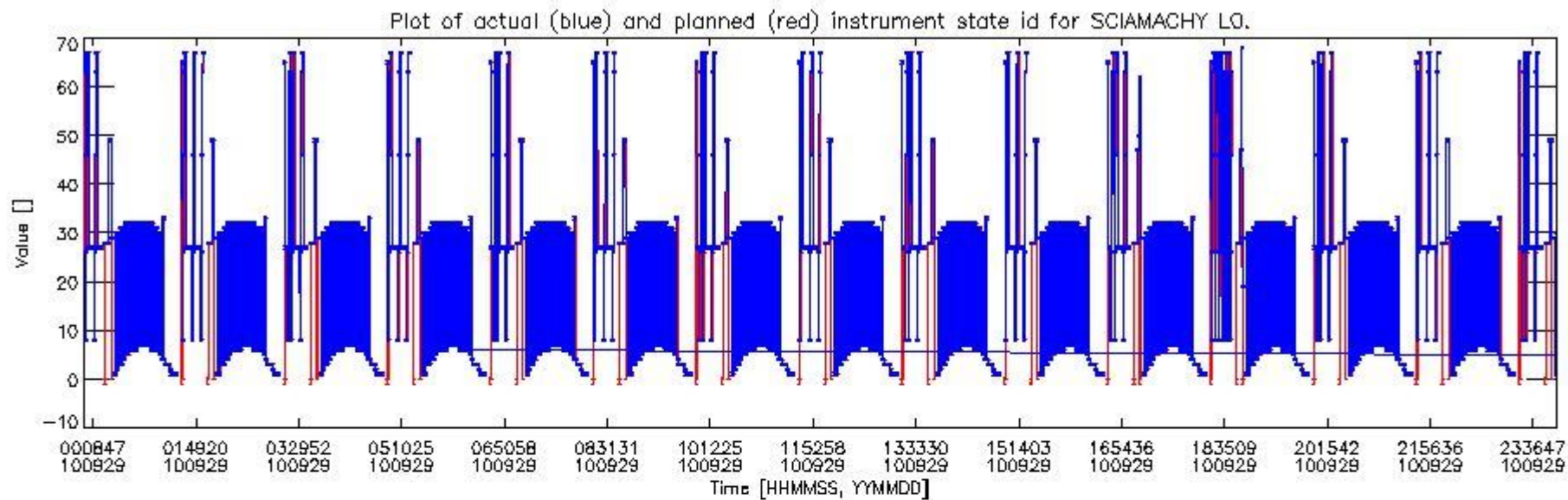


### 0.3 State monitoring

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: **44069**

#	Actual time	Actual value	Planned time	Planned value
0	29SEP2010 00:00:00.160802	67	29SEP2010 00:00:00.160802	63
1	29SEP2010 00:00:00.410802	67	29SEP2010 00:00:00.410802	63
2	29SEP2010 00:00:00.660802	67	29SEP2010 00:00:00.660802	63
3	29SEP2010 00:00:00.910802	67	29SEP2010 00:00:00.910802	63
4	29SEP2010 00:00:01.160802	67	29SEP2010 00:00:01.160802	63
5	29SEP2010 00:00:01.410802	67	29SEP2010 00:00:01.410802	63
6	29SEP2010 00:00:01.660802	67	29SEP2010 00:00:01.660802	63
7	29SEP2010 00:00:01.910802	67	29SEP2010 00:00:01.910802	63
8	29SEP2010 00:00:02.160802	67	29SEP2010 00:00:02.160802	63
9	29SEP2010 00:00:02.410802	67	29SEP2010 00:00:02.410802	63
10	29SEP2010 00:00:02.660802	67	29SEP2010 00:00:02.660802	63
11	29SEP2010 00:00:02.910802	67	29SEP2010 00:00:02.910802	63
12	29SEP2010 00:00:03.160802	67	29SEP2010 00:00:03.160802	63
13	29SEP2010 00:00:03.410802	67	29SEP2010 00:00:03.410802	63
14	29SEP2010 00:00:03.660802	67	29SEP2010 00:00:03.660802	63
15	29SEP2010 00:00:03.785802	67	29SEP2010 00:00:03.785802	63
16	29SEP2010 00:00:03.910802	67	29SEP2010 00:00:03.910802	63
17	29SEP2010 00:00:04.160802	67	29SEP2010 00:00:04.160802	63
18	29SEP2010 00:00:04.410802	67	29SEP2010 00:00:04.410802	63
19	29SEP2010 00:01:07.348313	8	29SEP2010 00:01:07.348313	67
	...	...	...	...

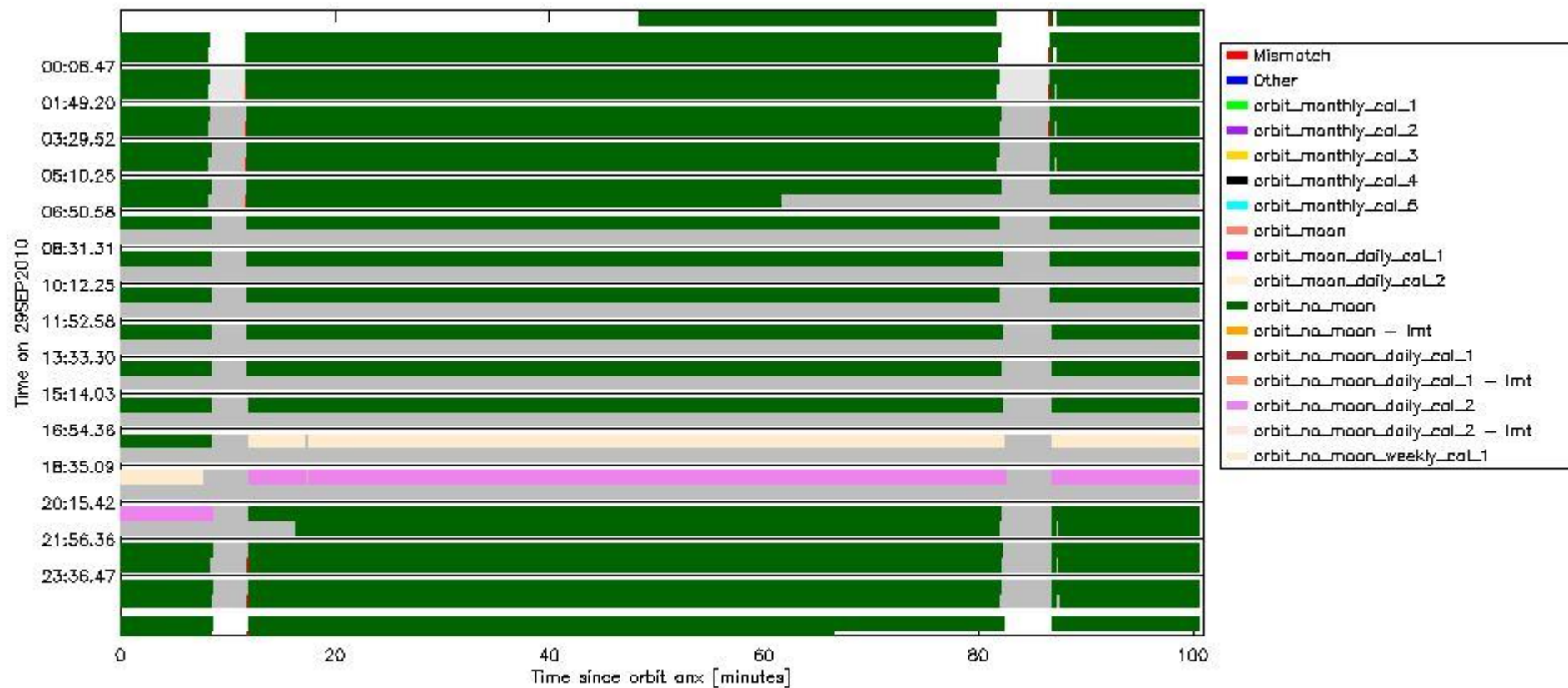


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This section gives an analysis of the DMOP execution. The execution is monitored by assigning various activities to timeline sequences found in the DMOP file, and by checking where "NEW" datasets are available in SCI\_NL\_\_1P products.

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 29SEP2010.  
 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\_Any\_version\_20100929\_6.PNG

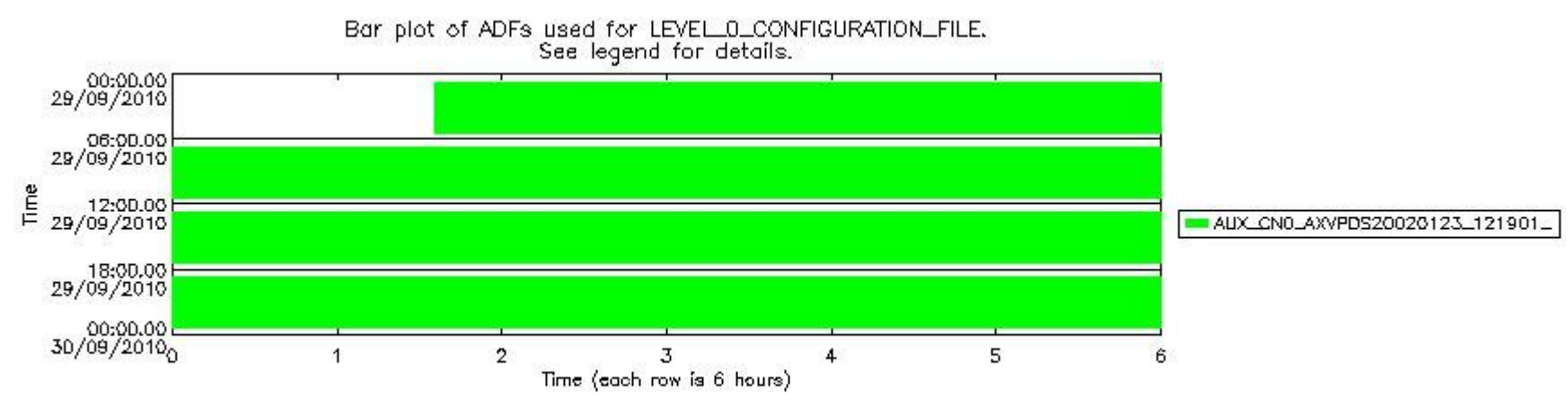
## 0.4 ADF monitoring

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

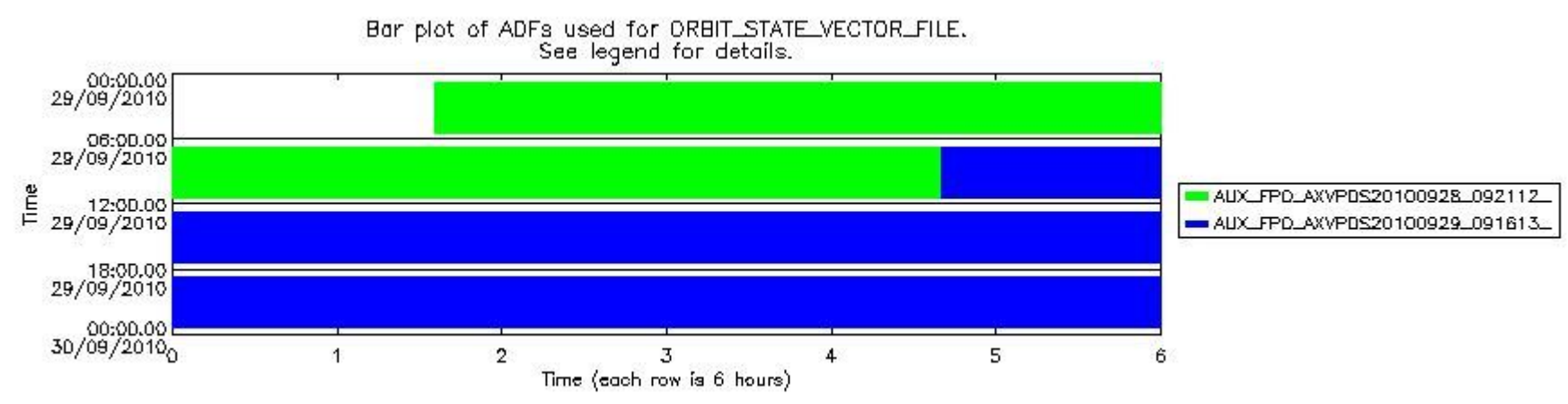
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

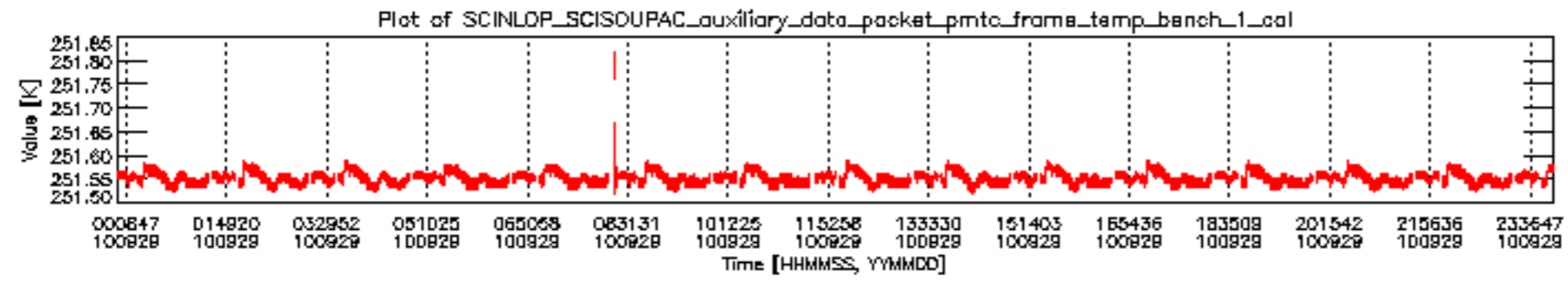
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20100928_092112_20100927_193829_20101007_210441
2	AUX_FPO_AXVPDS20100929_091613_20100928_190652_20101008_203304



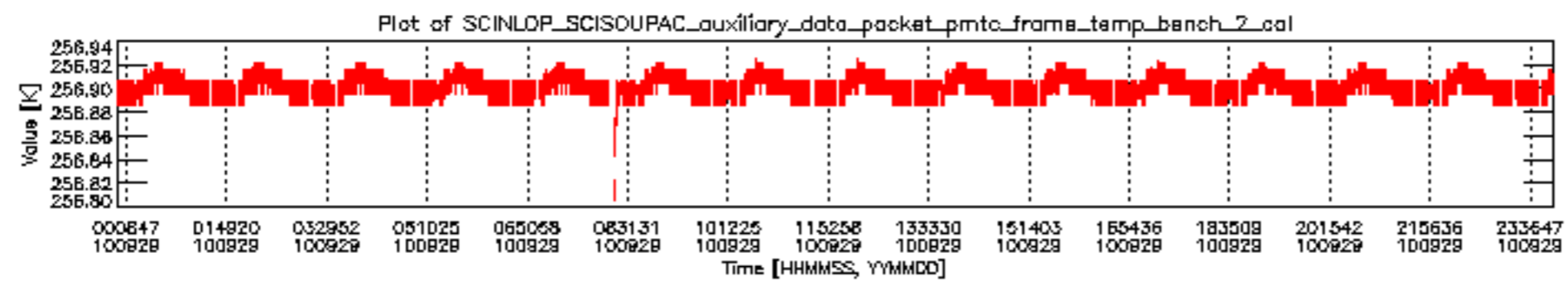
sciamachy\_daily\_report\_level0\_Any\_version\_20100929\_7.PNG

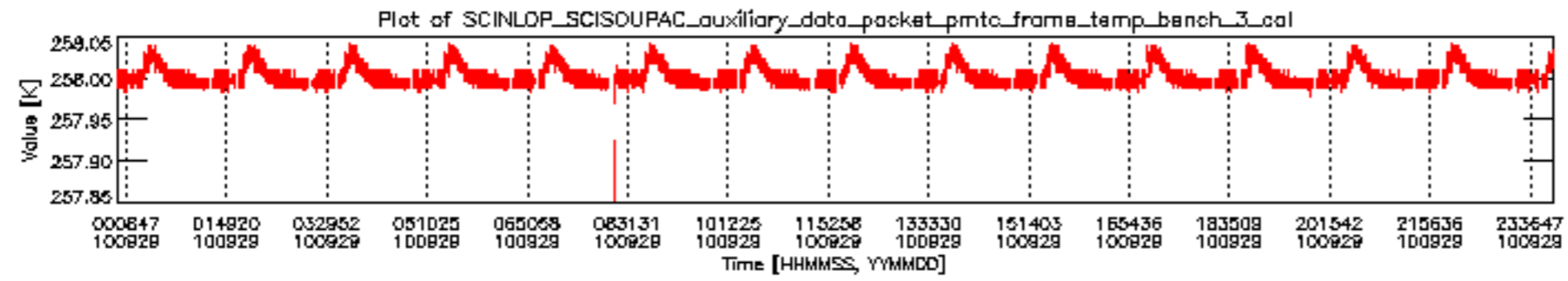


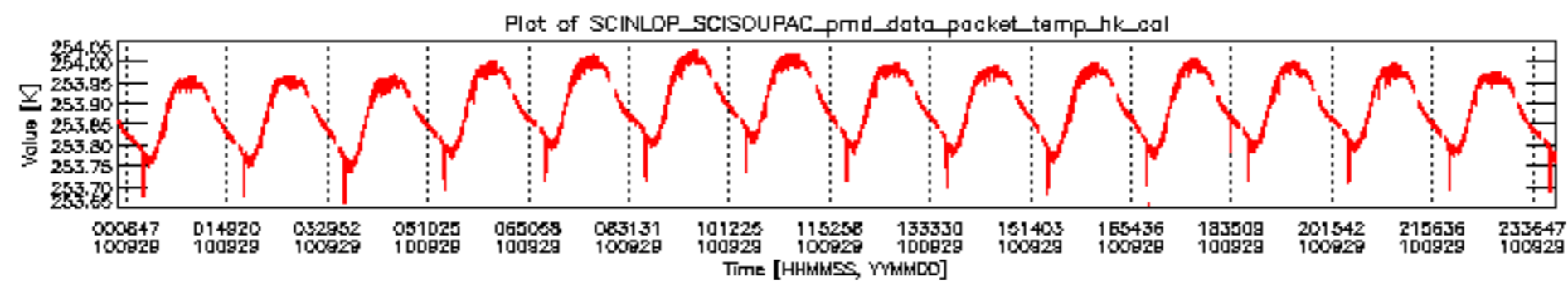
sciamachy\_daily\_report\_level0\_Any\_version\_20100929\_8.PNG

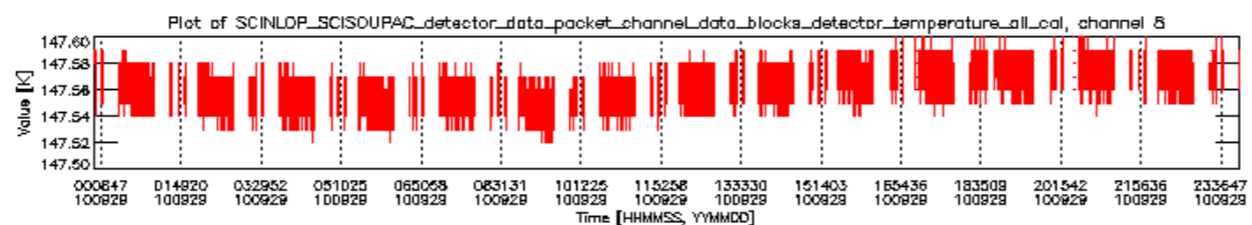
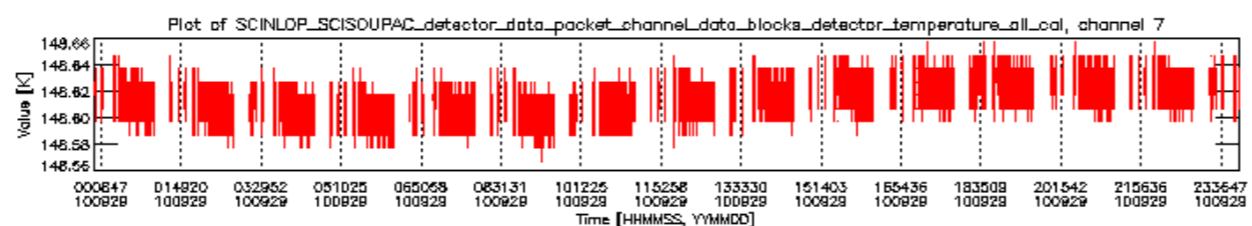
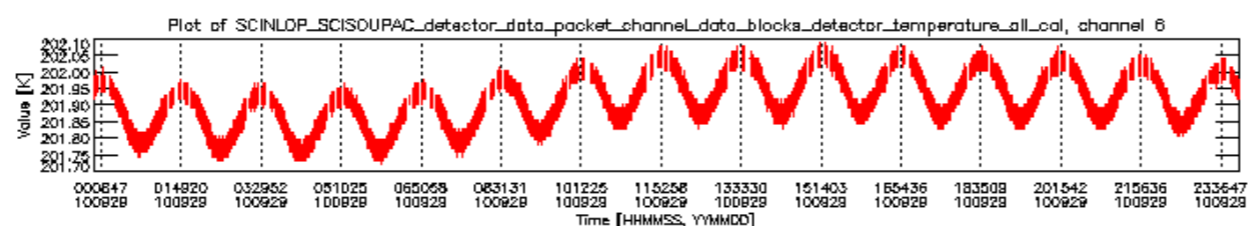
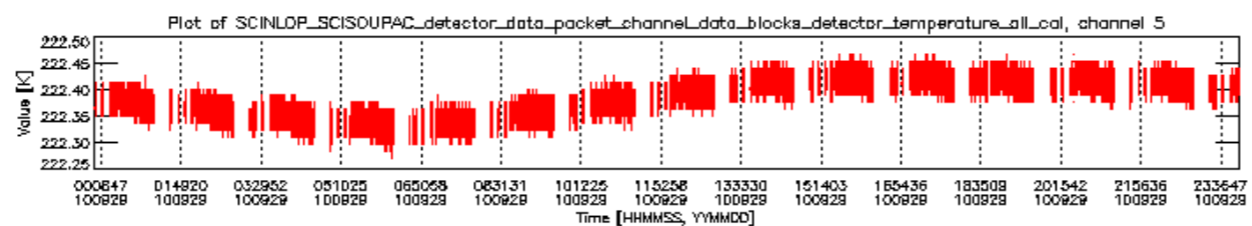
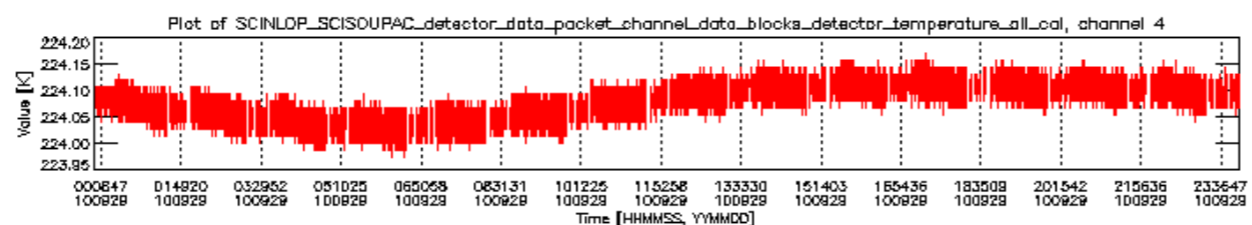
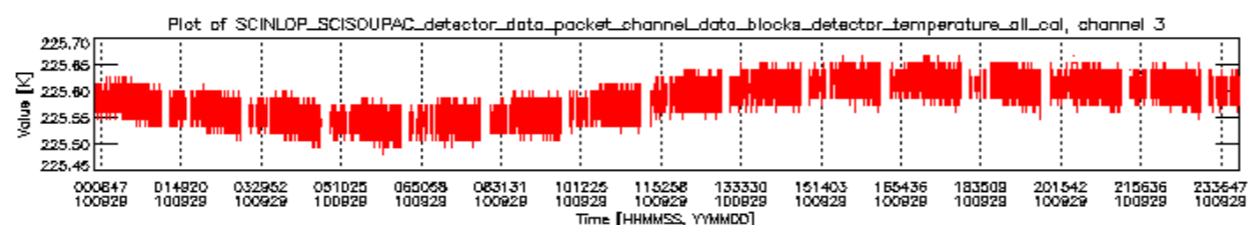
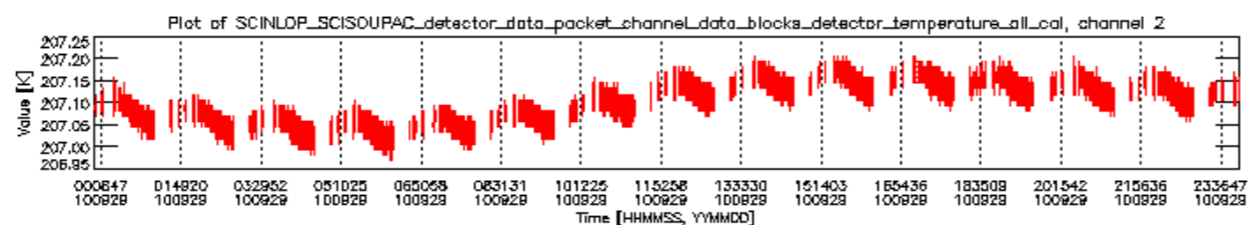
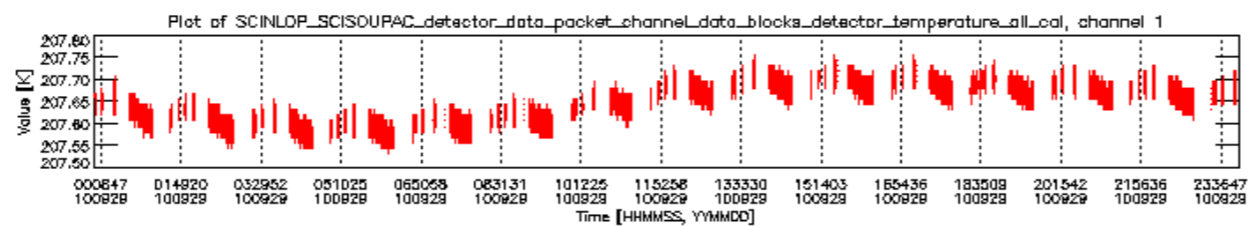


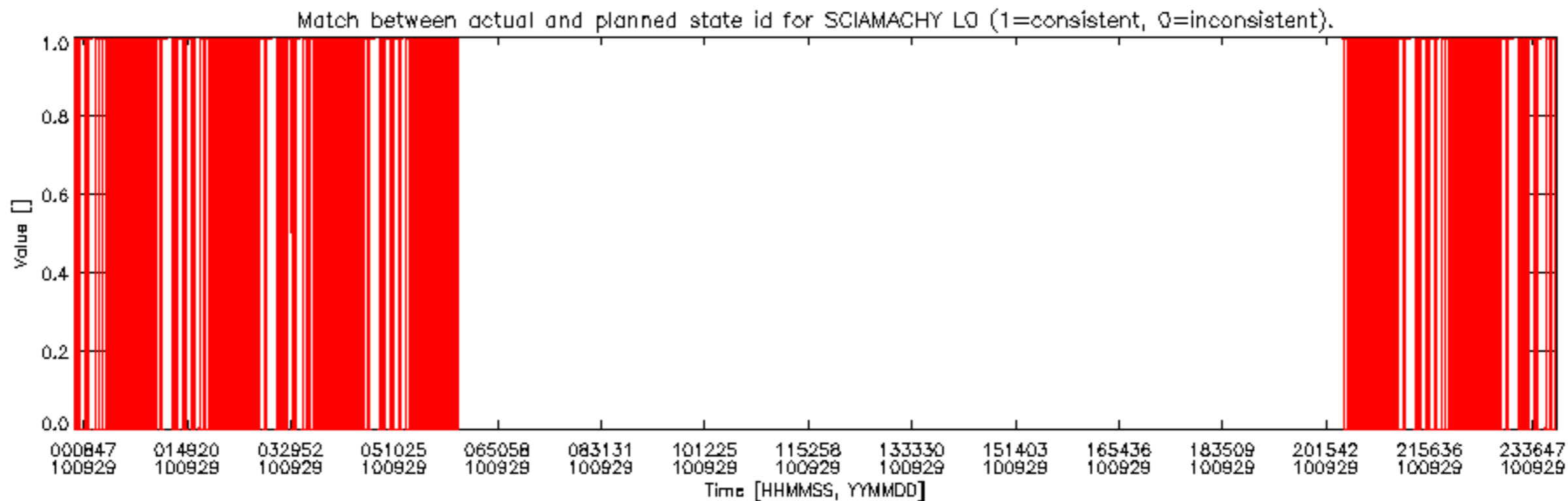
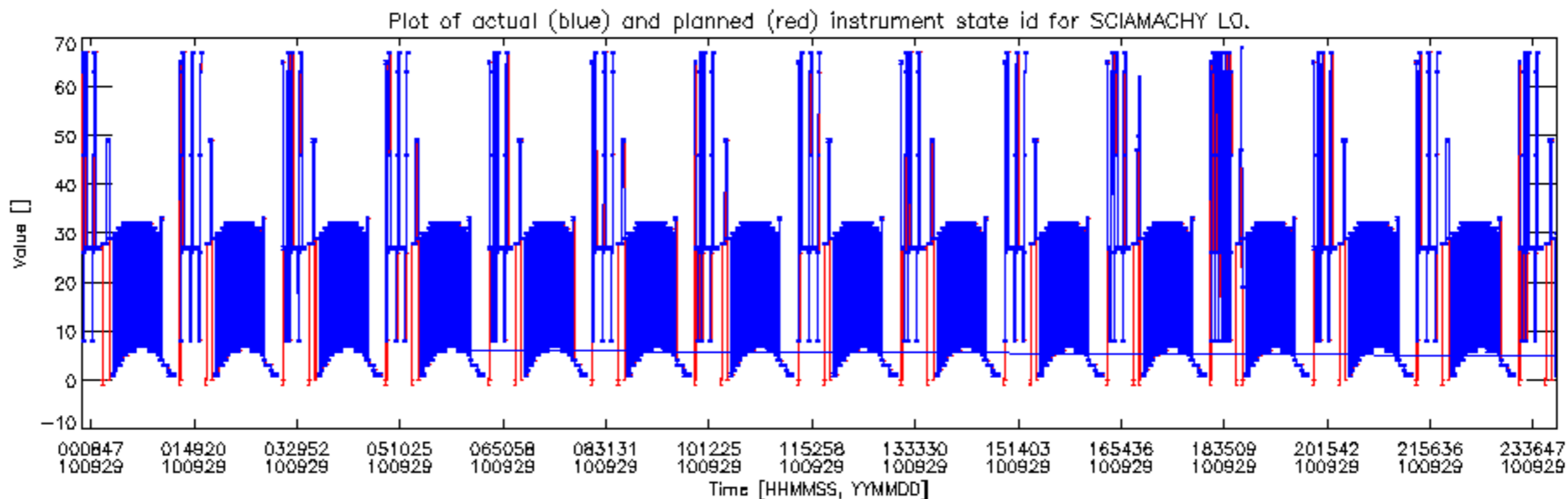












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 29SEP2010.  
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