

## 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	v1.3 20060731
Time of report generation	19OCT2008 06:05:28
Data source version	KSPT_L0/4303-N
Processing scope for products	15OCT2008 00:00:00 to 16OCT2008 00:00:00
Start time of first product within scope	14OCT2008 22:56:31
Stop time of last product within scope	16OCT2008 00:05:37
Total number of level 0 products	17
Number of level 0 products with errors	4

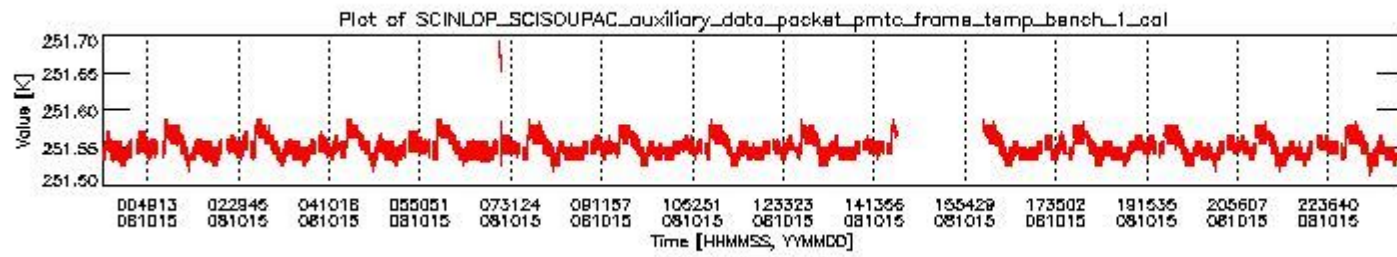
### 0.1.2 Summary per product

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

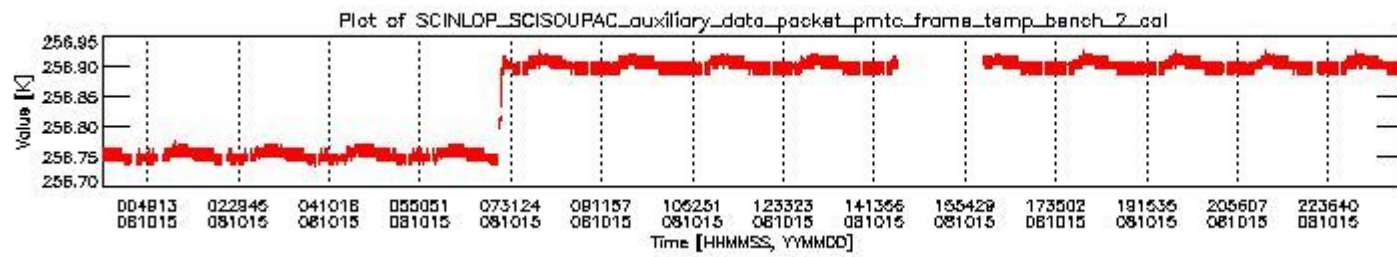
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20081014_225631_000060362073_00015_34638_7708.N1	14OCT2008 22:56:31	15OCT2008 00:37:07	0	0	0	0	0
1	SCI_NL__OPNPDE20081015_003707_000056122073_00016_34639_7709.N1	15OCT2008 00:37:07	15OCT2008 02:10:39	0	0	0	0	0
2	SCI_NL__OPNPDE20081015_021744_000043122073_00017_34640_7710.N1	15OCT2008 02:17:44	15OCT2008 03:29:35	0	0	0	0	0
3	SCI_NL__OPNPDE20081015_032827_000061612073_00018_34641_7711.N1	15OCT2008 03:28:27	15OCT2008 05:11:08	0	0	0	0	0
4	SCI_NL__OPNPDE20081015_051108_000060372073_00019_34642_7712.N1	15OCT2008 05:11:08	15OCT2008 06:51:44	0	0	0	0	0
5	SCI_NL__OPNPDK20081015_065144_000039902073_00020_34643_9671.N1	15OCT2008 06:51:44	15OCT2008 07:58:14	0	0	0	0	0
6	SCI_NL__OPNPDK20081015_075705_000062292073_00021_34644_9672.N1	15OCT2008 07:57:05	15OCT2008 09:40:55	0	0	0	0	0
7	SCI_NL__OPNPDK20081015_093946_000060362073_00022_34645_9673.N1	15OCT2008 09:39:46	15OCT2008 11:20:22	0	0	0	0	0
8	SCI_NL__OPNPDK20081015_111927_000003052073_00023_34646_9674.N1	15OCT2008 11:19:27	15OCT2008 11:24:31	1	1	0	0	0
9	SCI_NL__OPNPDK20081015_112431_000057322073_00023_34646_9675.N1	15OCT2008 11:24:31	15OCT2008 13:00:03	0	0	0	0	0
10	SCI_NL__OPNPDK20081015_125854_000059812073_00024_34647_9676.N1	15OCT2008 12:58:54	15OCT2008 14:38:35	1	1	0	0	0
11	SCI_NL__OPNPDK20081015_143726_000058692073_00025_34648_9677.N1	15OCT2008 14:37:26	15OCT2008 16:15:15	1	1	0	0	0
12	SCI_NL__OPNPDK20081015_161419_000060162073_00026_34649_9678.N1	15OCT2008 16:14:19	15OCT2008 17:54:35	0	0	0	0	0
13	SCI_NL__OPNPDK20081015_175238_000060362073_00027_34650_9679.N1	15OCT2008 17:52:38	15OCT2008 19:33:14	1	1	0	0	0
14	SCI_NL__OPNPDK20081015_193314_000060362073_00028_34651_9680.N1	15OCT2008 19:33:14	15OCT2008 21:13:51	0	0	0	0	0
15	SCI_NL__OPNPDE20081015_211351_000042702073_00029_34652_7713.N1	15OCT2008 21:13:51	15OCT2008 22:25:01	0	0	0	0	0
16	SCI_NL__OPNPDE20081015_222501_000060362073_00029_34652_7714.N1	15OCT2008 22:25:01	16OCT2008 00:05:37	0	0	0	0	0

## 0.2 Product Quality Indicators

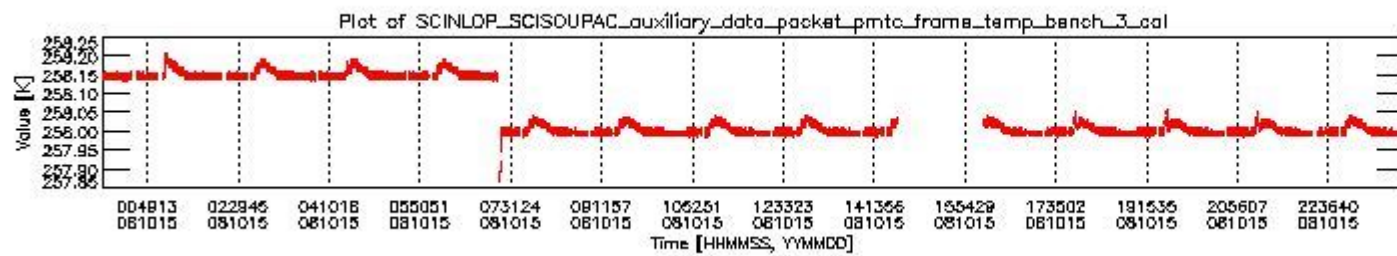
This section shows information about product quality, currently temperatures.



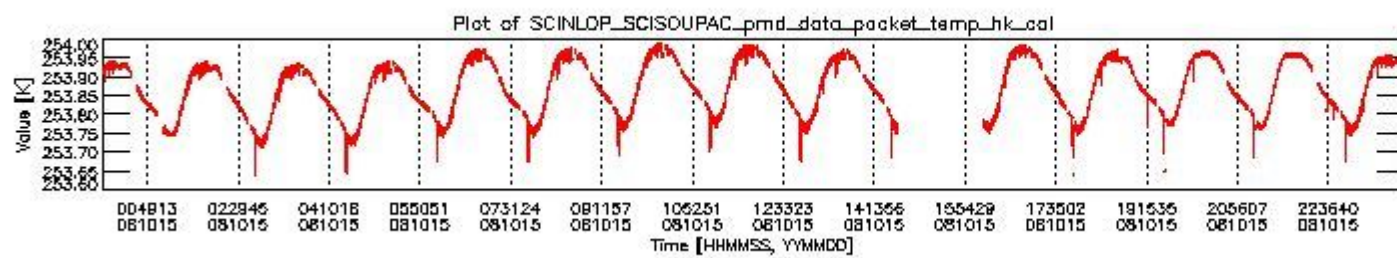
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081015\_0.PNG



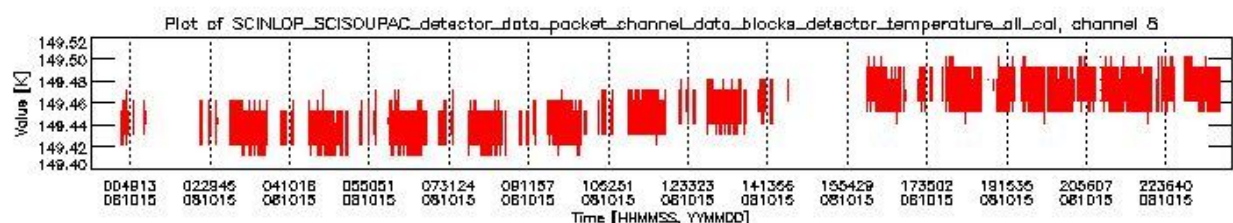
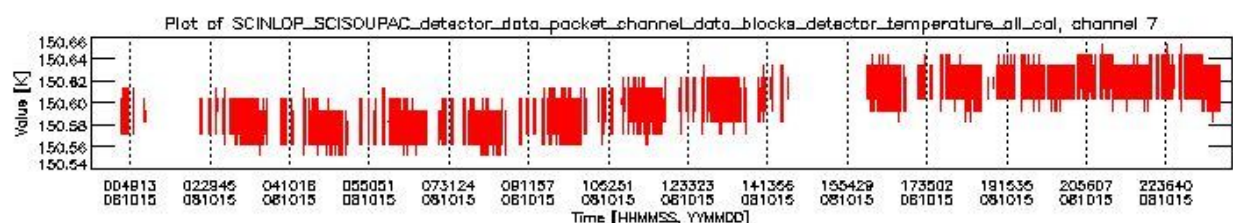
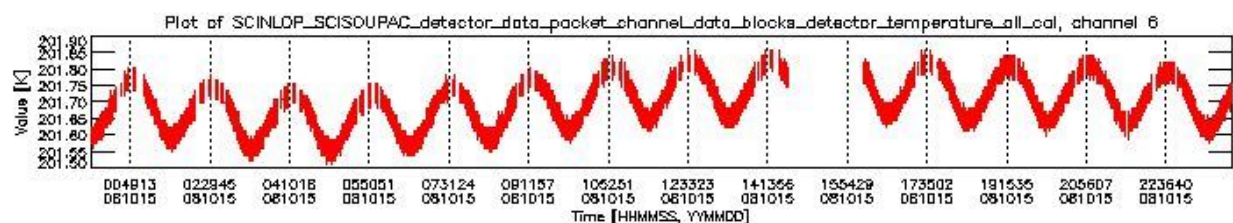
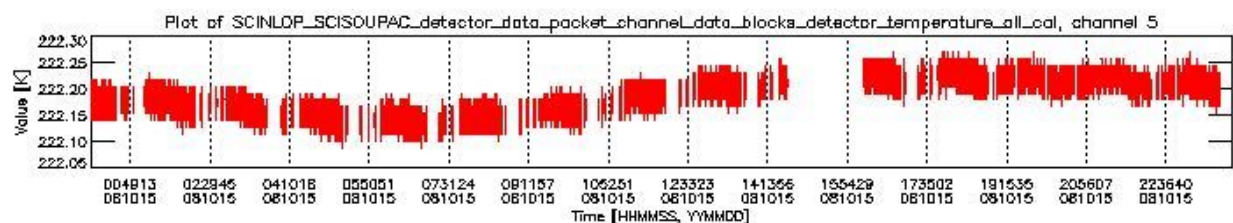
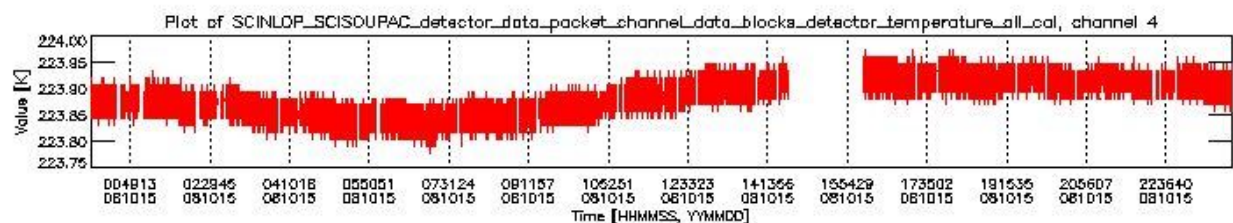
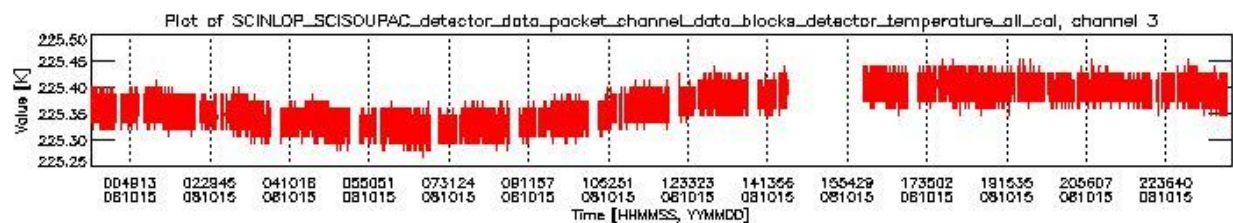
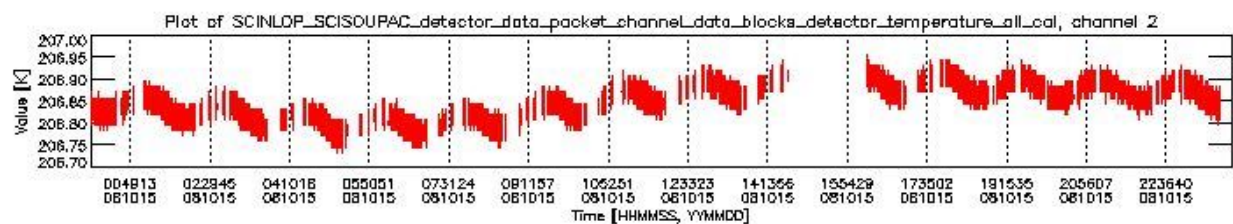
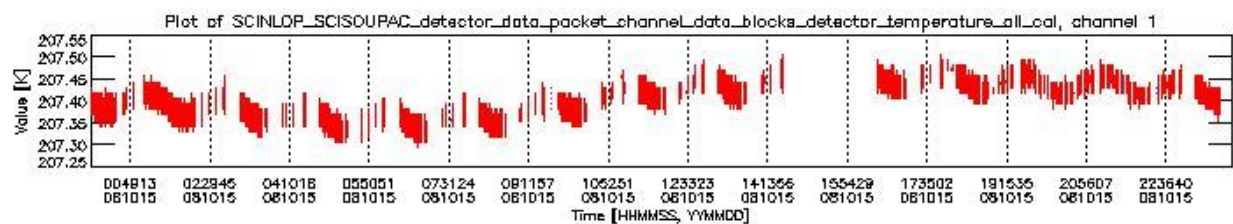
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081015\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081015\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081015\_3.PNG

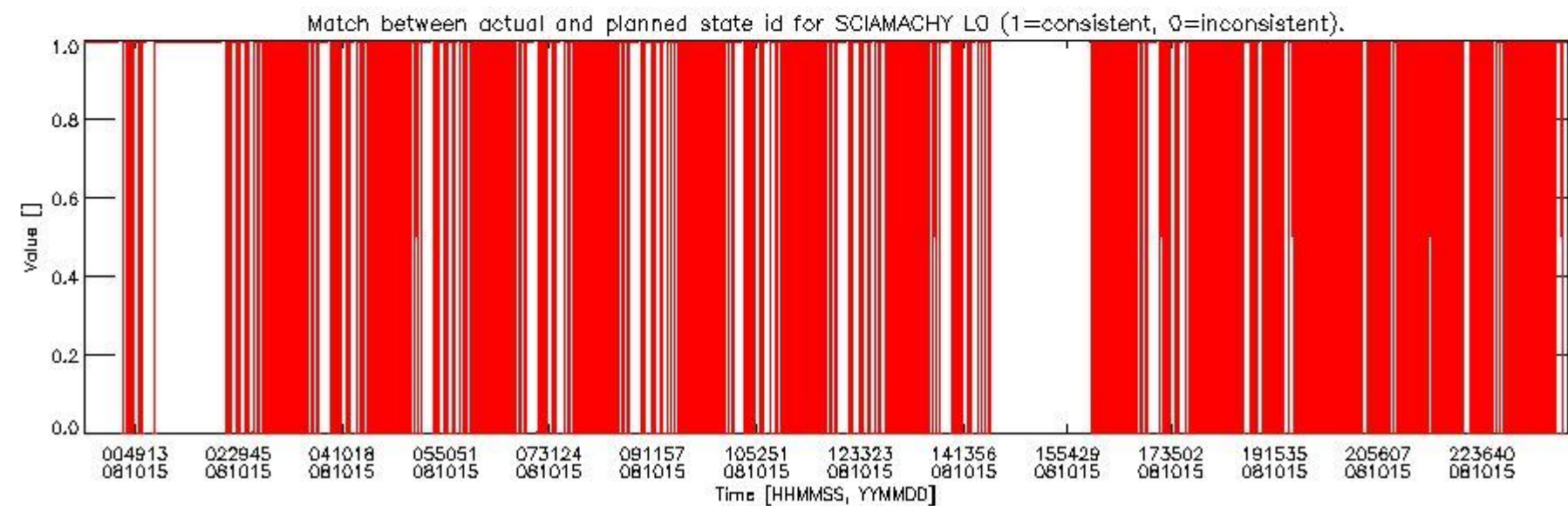
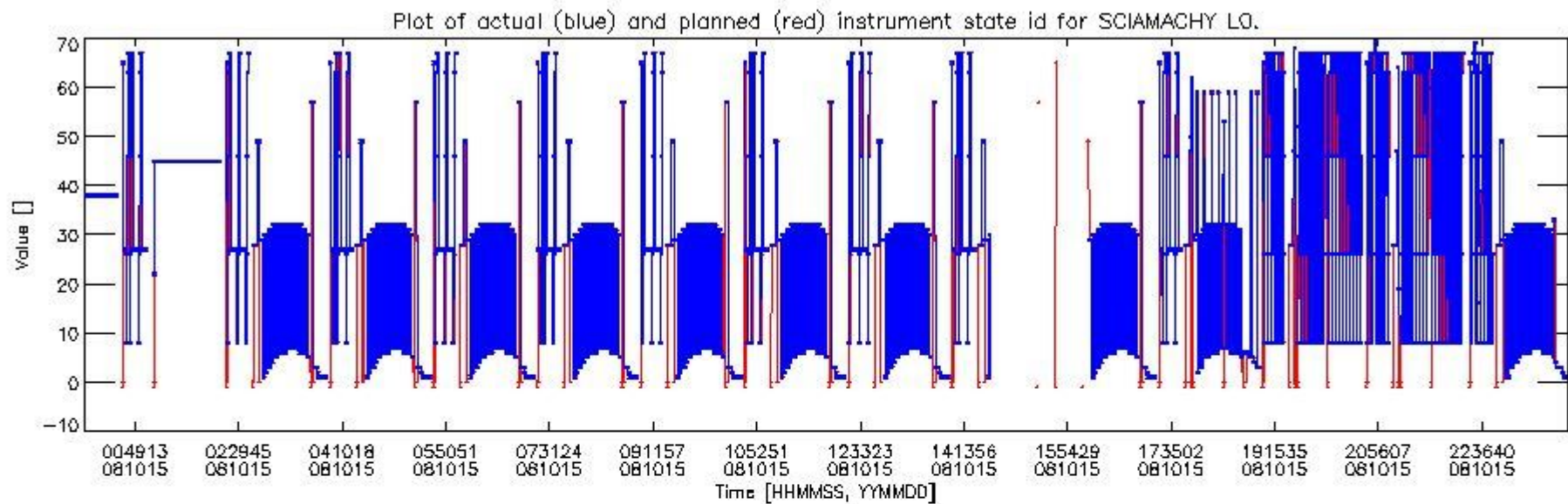


### 0.3 State monitoring

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: **38922**

#	Actual time	Actual value	Planned time	Planned value
0	15OCT2008 00:37:07.688903	65	15OCT2008 00:37:07.688903	0
1	15OCT2008 00:37:08.313884	65	15OCT2008 00:37:08.313884	0
2	15OCT2008 00:37:08.813902	65	15OCT2008 00:37:08.813902	0
3	15OCT2008 00:37:09.313879	65	15OCT2008 00:37:09.313879	0
4	15OCT2008 00:37:09.813896	65	15OCT2008 00:37:09.813896	0
5	15OCT2008 00:37:10.313873	65	15OCT2008 00:37:10.313873	0
6	15OCT2008 00:37:10.813891	65	15OCT2008 00:37:10.813891	0
7	15OCT2008 00:37:11.313868	65	15OCT2008 00:37:11.313868	0
8	15OCT2008 00:37:11.813885	65	15OCT2008 00:37:11.813885	0
9	15OCT2008 00:37:12.313903	65	15OCT2008 00:37:12.313903	0
10	15OCT2008 00:37:12.688875	65	15OCT2008 00:37:12.688875	0
11	15OCT2008 00:37:12.813880	65	15OCT2008 00:37:12.813880	0
12	15OCT2008 00:37:13.313897	65	15OCT2008 00:37:13.313897	0
13	15OCT2008 00:37:13.813874	65	15OCT2008 00:37:13.813874	0
14	15OCT2008 00:37:14.313892	65	15OCT2008 00:37:14.313892	0
15	15OCT2008 00:37:14.813869	65	15OCT2008 00:37:14.813869	0
16	15OCT2008 00:37:51.442799	27	15OCT2008 00:37:51.442799	0
17	15OCT2008 00:37:52.442794	27	15OCT2008 00:37:52.442794	0
18	15OCT2008 00:37:53.380306	27	15OCT2008 00:37:53.380306	0
19	15OCT2008 00:37:54.130292	27	15OCT2008 00:37:54.130292	0
...	...	...	...	...

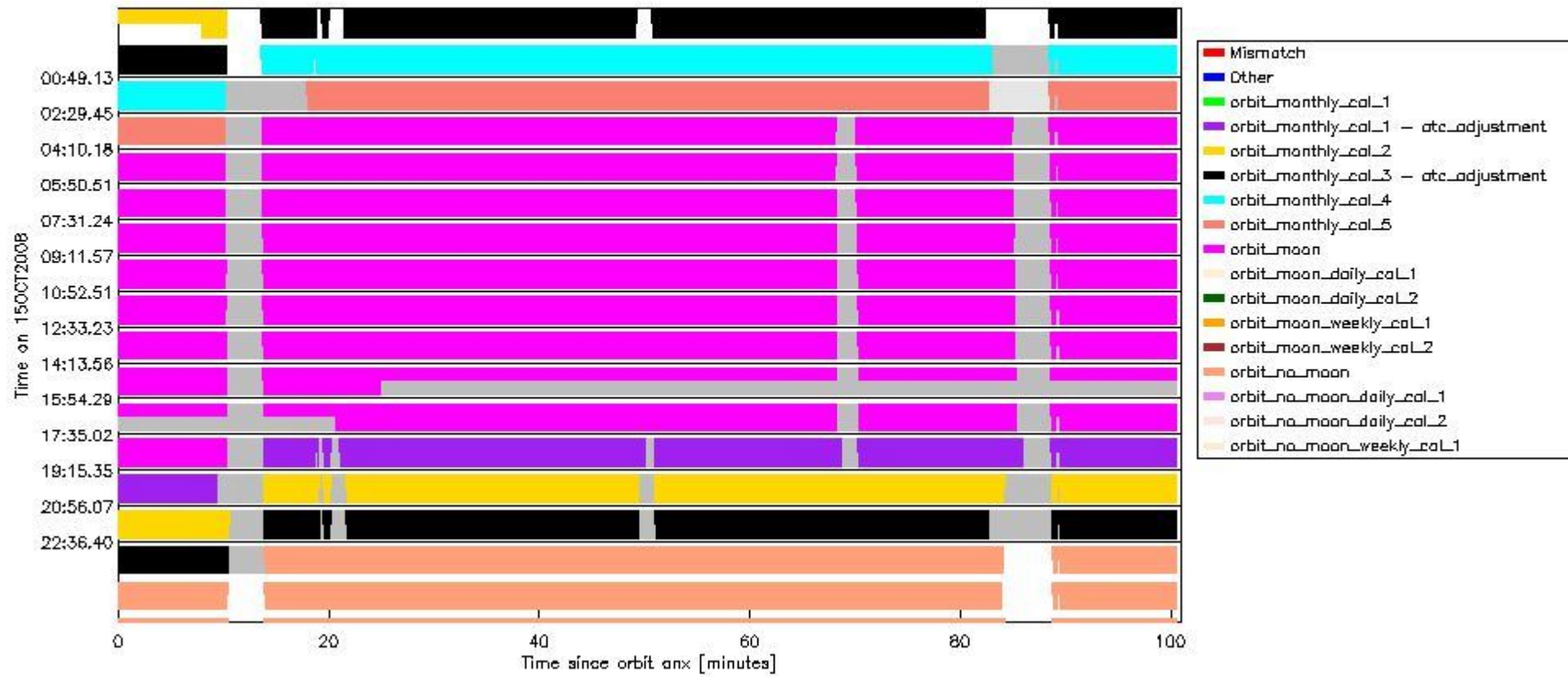


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081015\_5.PNG

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 15OCT2008.  
 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\_4303\_N\_20081015\_6.PNG

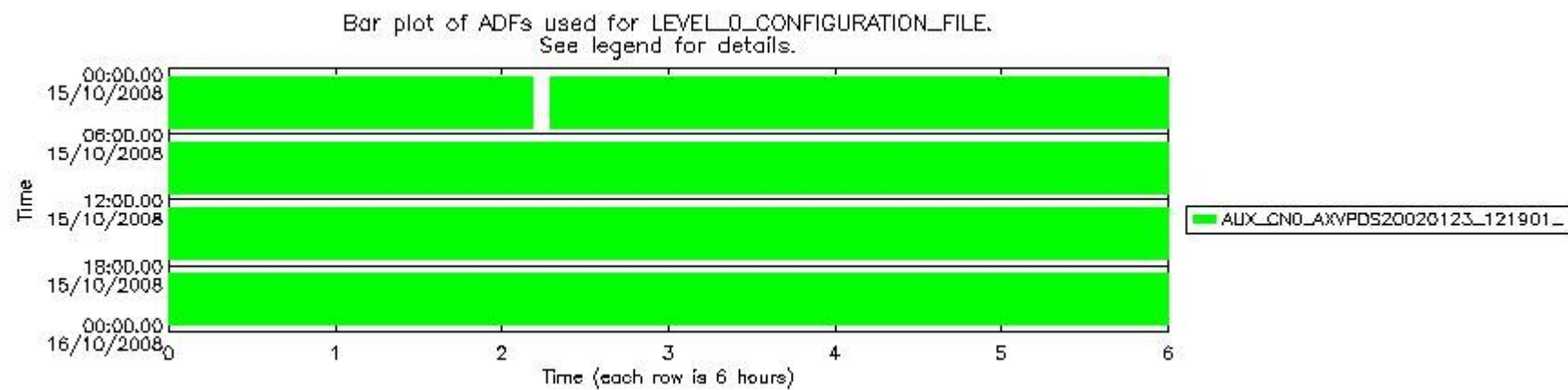
## 0.4 ADF monitoring

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

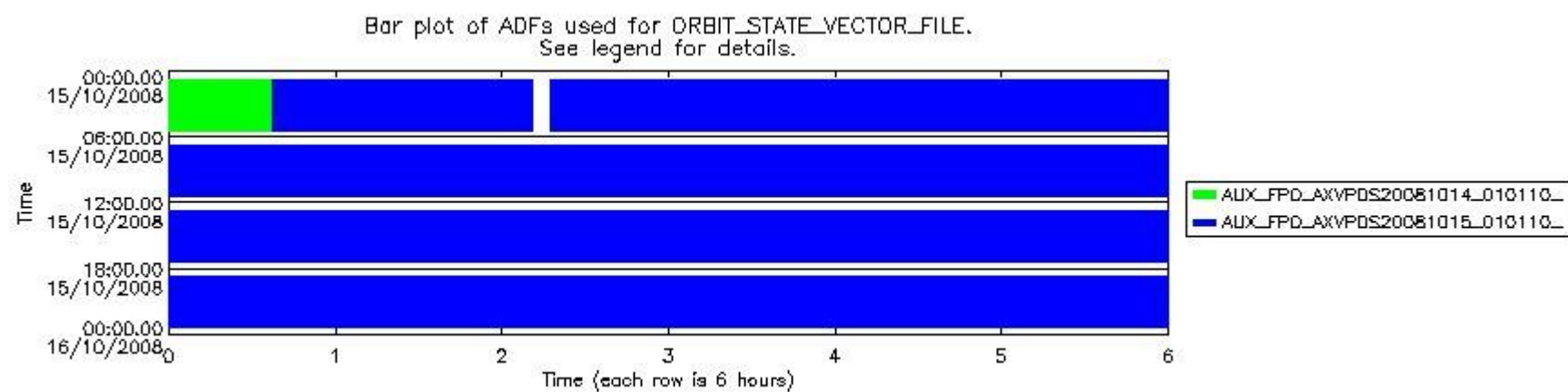
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

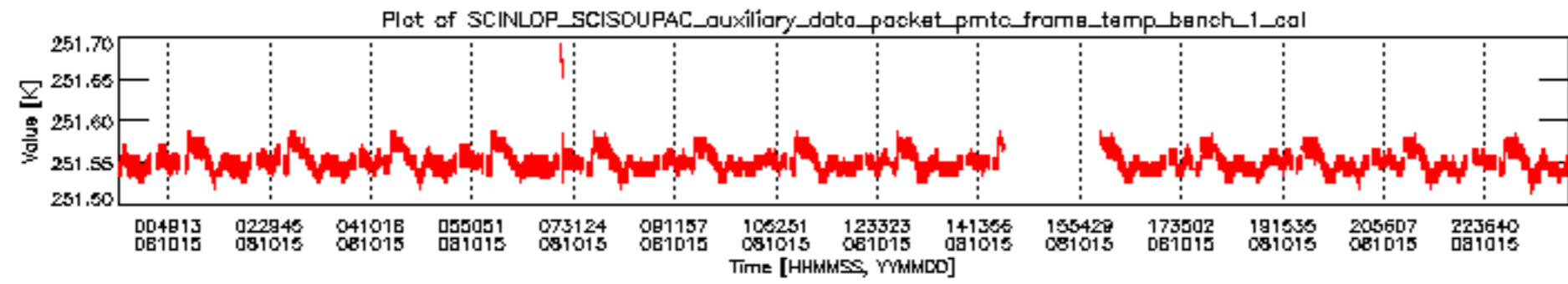
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20081014_010110_20081013_183818_20081023_200431
2	AUX_FPO_AXVPDS20081015_010110_20081014_194717_20081024_211330



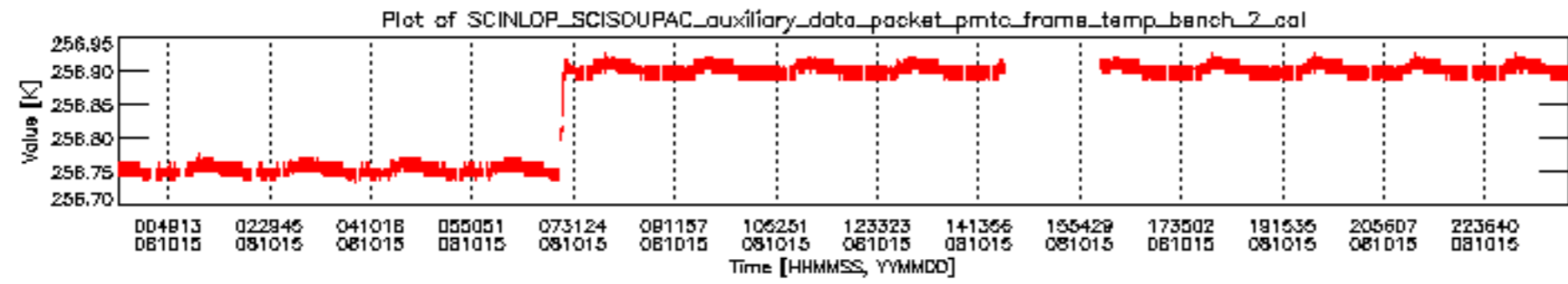
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081015\_7.PNG

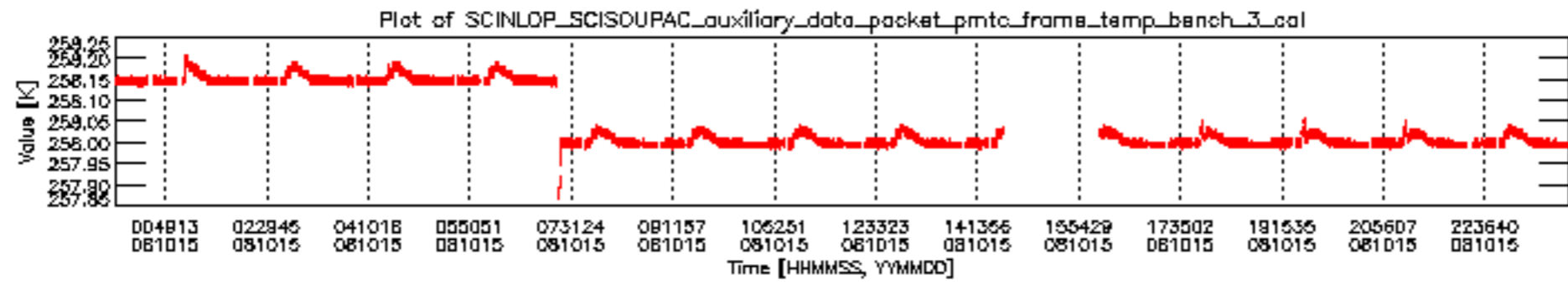


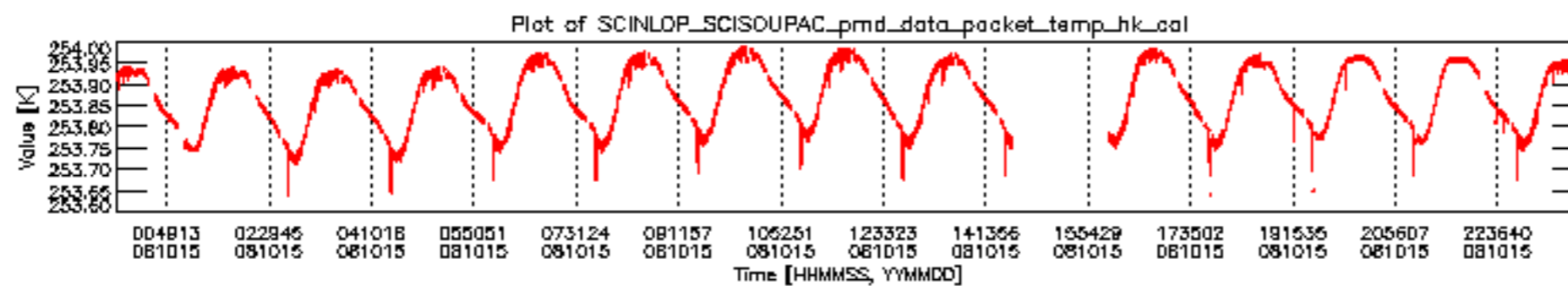
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20081015\_8.PNG

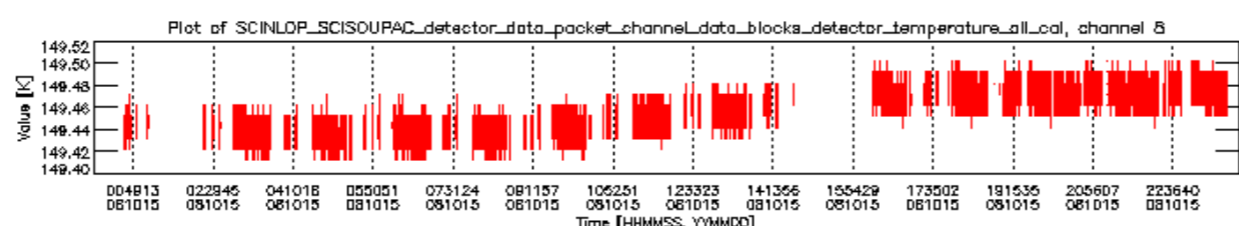
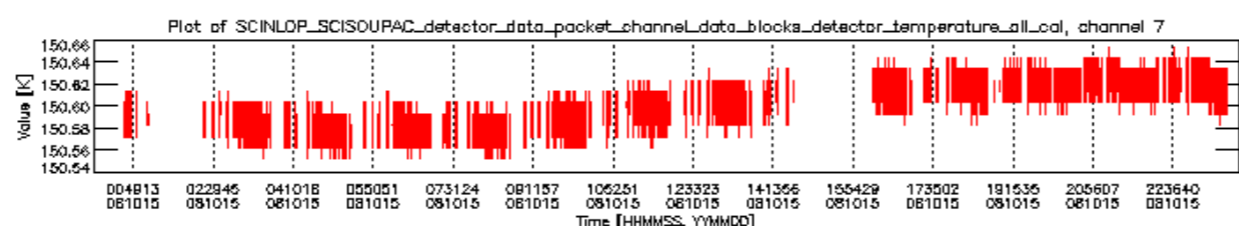
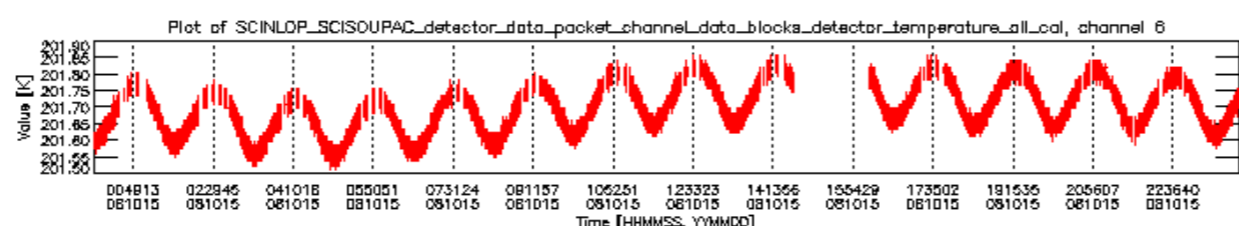
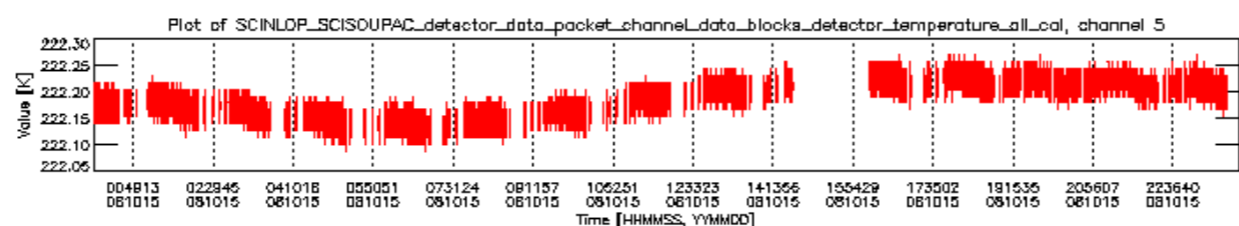
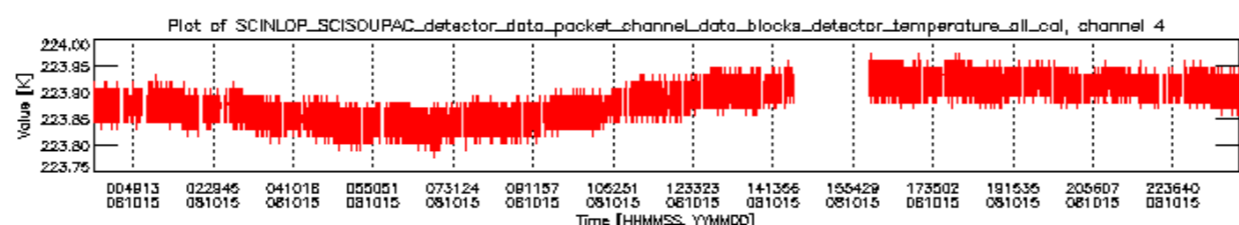
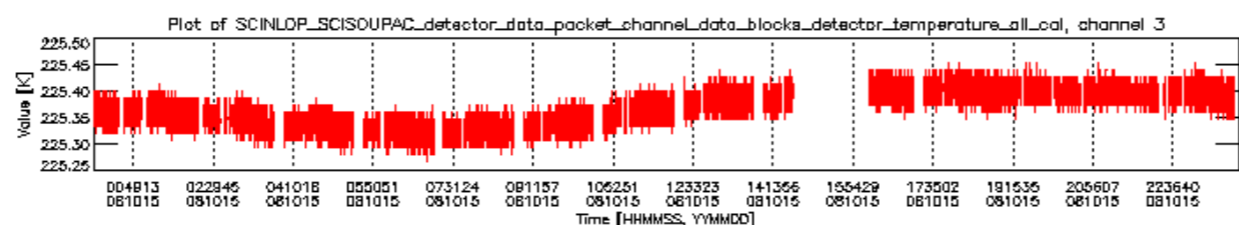
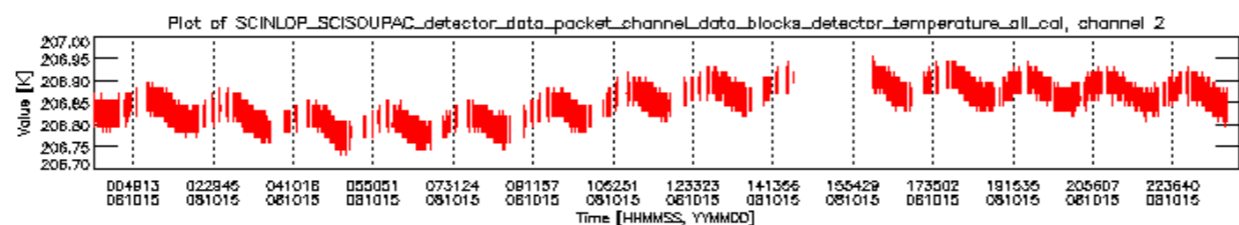
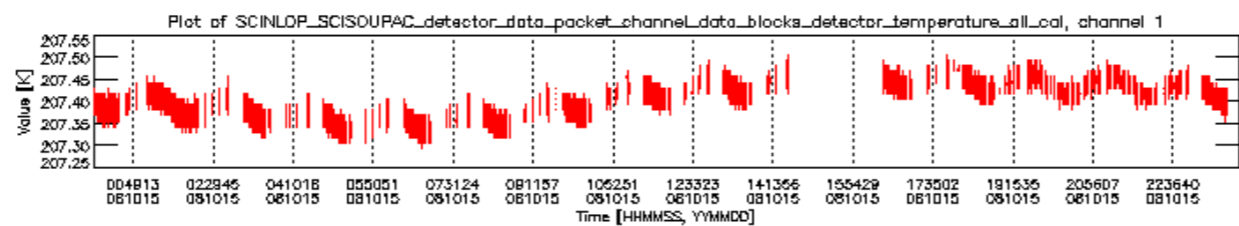


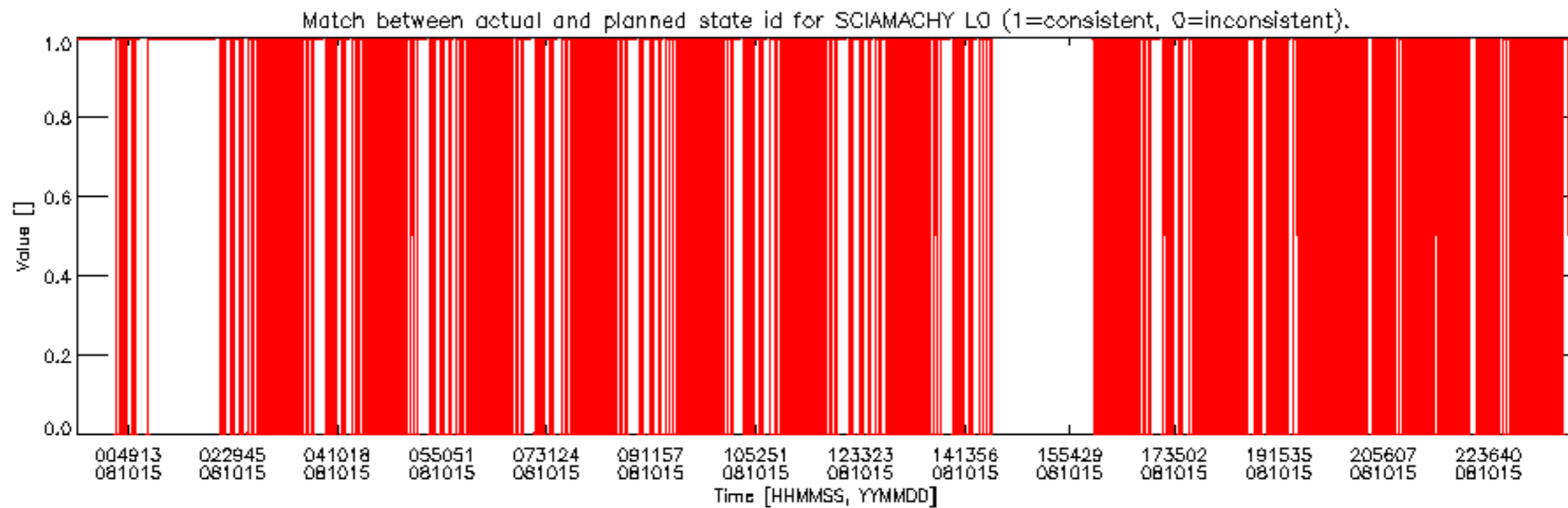
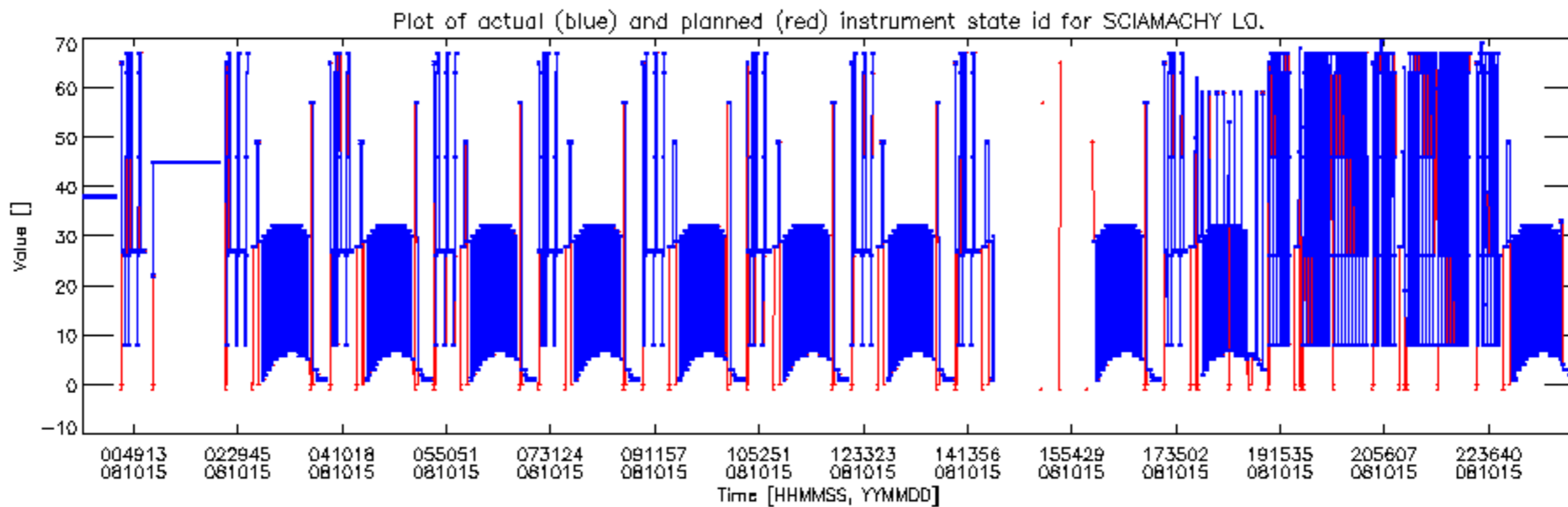












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 15OCT2008.  
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