

## 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	22SEP2011 03:03:25
Data source version	KSPT_L0/4504-N
Processing scope for products	15SEP2011 00:00:00 to 16SEP2011 00:00:00
Start time of first product within scope	15SEP2011 01:05:58
Stop time of last product within scope	16SEP2011 00:29:21
Total number of Level 0 products	15
Number of Level 0 products with errors	0

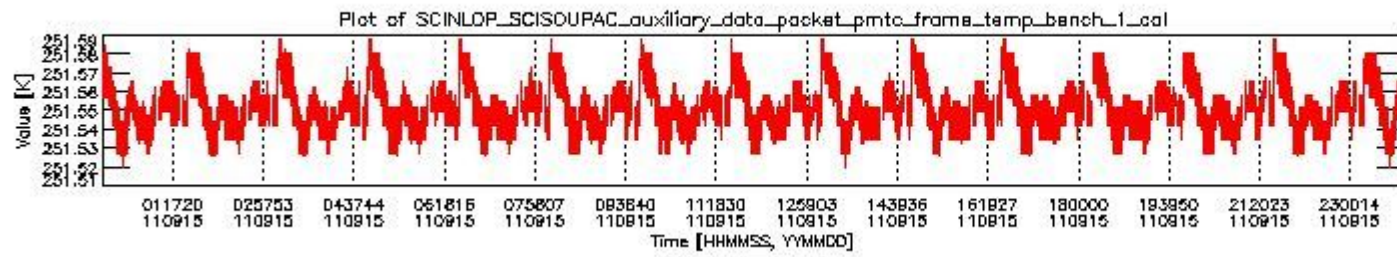
### 0.1.2 Summary per product

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

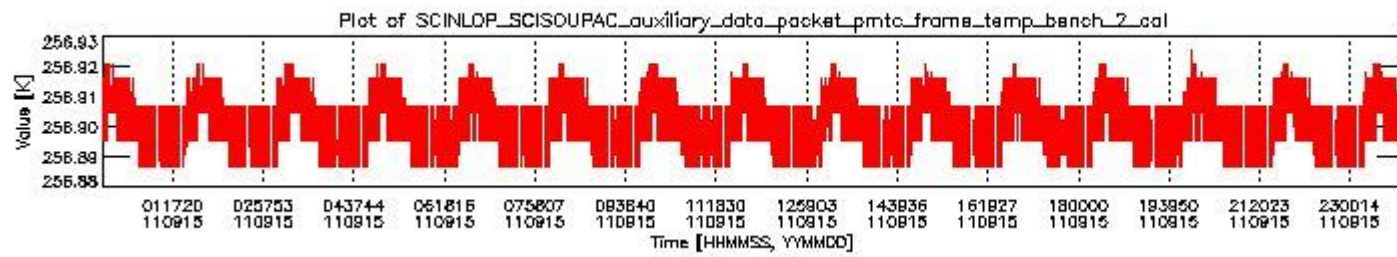
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110915_010558_000102243106_00318_49901_7150.N1	15SEP2011 01:05:58	15SEP2011 03:56:21	0	0	0	0	0
1	SCI_NL__OPNPDE20110915_024201_000044613106_00319_49902_3886.N1	15SEP2011 02:42:01	15SEP2011 03:56:21	0	0	0	0	0
2	SCI_NL__OPNPDE20110915_035527_000062063106_00320_49903_7151.N1	15SEP2011 03:55:27	15SEP2011 05:38:53	0	0	0	0	0
3	SCI_NL__OPNPDE20110915_053853_000060003106_00321_49904_7152.N1	15SEP2011 05:38:53	15SEP2011 07:18:53	0	0	0	0	0
4	SCI_NL__OPNPDK20110915_071853_000040653106_00322_49905_5685.N1	15SEP2011 07:18:53	15SEP2011 08:26:38	0	0	0	0	0
5	SCI_NL__OPNPDK20110915_082530_000061373106_00323_49906_5686.N1	15SEP2011 08:25:30	15SEP2011 10:07:47	0	0	0	0	0
6	SCI_NL__OPNPDK20110915_100638_000059603106_00324_49907_5687.N1	15SEP2011 10:06:38	15SEP2011 11:45:59	0	0	0	0	0
7	SCI_NL__OPNPDK20110915_114559_000059463106_00325_49908_5688.N1	15SEP2011 11:45:59	15SEP2011 13:25:05	0	0	0	0	0
8	SCI_NL__OPNPDK20110915_132410_000058923106_00326_49909_5689.N1	15SEP2011 13:24:10	15SEP2011 15:02:22	0	0	0	0	0
9	SCI_NL__OPNPDK20110915_150128_000059463106_00327_49910_5690.N1	15SEP2011 15:01:28	15SEP2011 16:40:34	0	0	0	0	0
10	SCI_NL__OPNPDK20110915_163925_000059033106_00328_49911_5691.N1	15SEP2011 16:39:25	15SEP2011 18:17:49	0	0	0	0	0
11	SCI_NL__OPNPDK20110915_181654_000059763106_00329_49912_5692.N1	15SEP2011 18:16:54	15SEP2011 19:56:31	0	0	0	0	0
12	SCI_NL__OPNPDE20110915_195400_000042413106_00330_49913_7153.N1	15SEP2011 19:54:00	15SEP2011 21:04:40	0	0	0	0	0
13	SCI_NL__OPNPDE20110915_210440_000062343106_00330_49913_7154.N1	15SEP2011 21:04:40	15SEP2011 22:48:34	0	0	0	0	0
14	SCI_NL__OPNPDE20110915_224751_000060903106_00331_49914_7155.N1	15SEP2011 22:47:51	16SEP2011 00:29:21	0	0	0	0	0

## 0.2 Product Quality Indicators

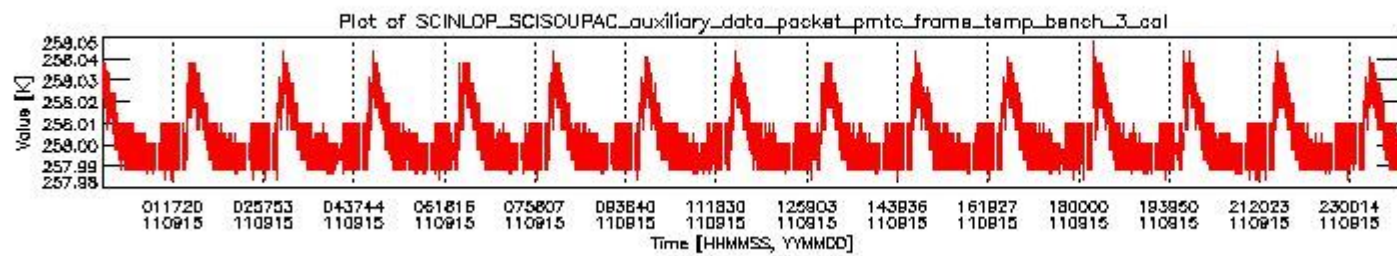
This section shows information about product quality, currently temperatures.



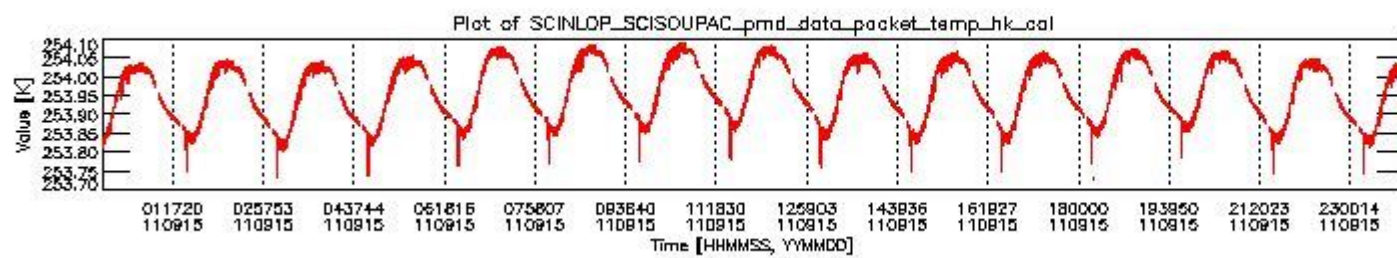
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110915\_0.PNG



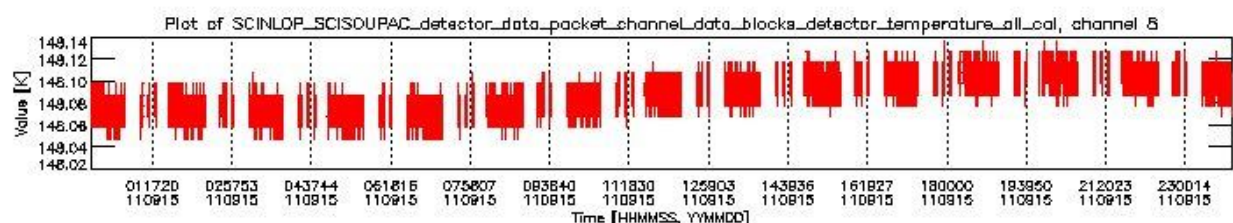
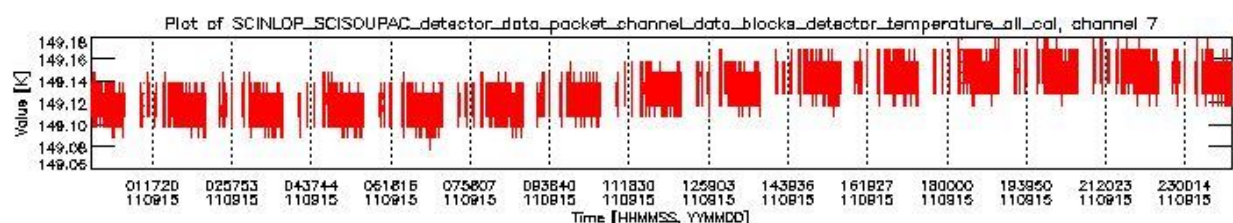
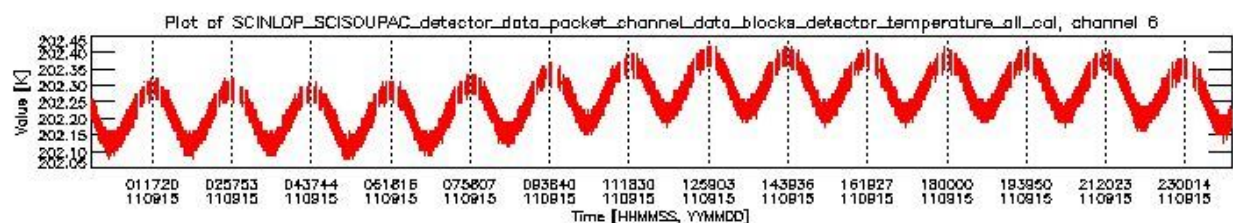
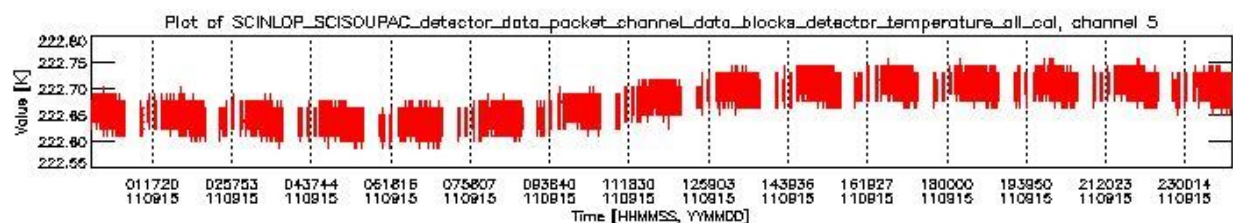
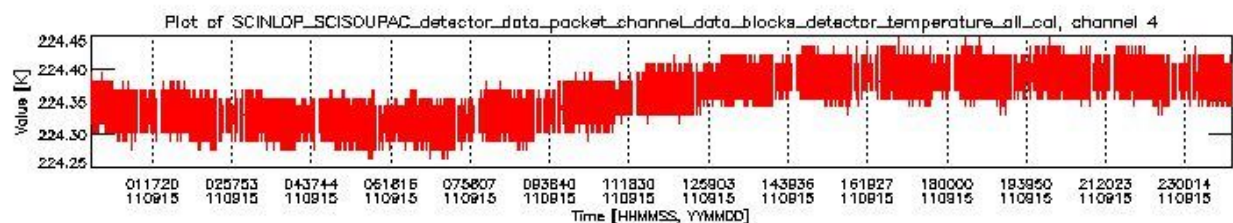
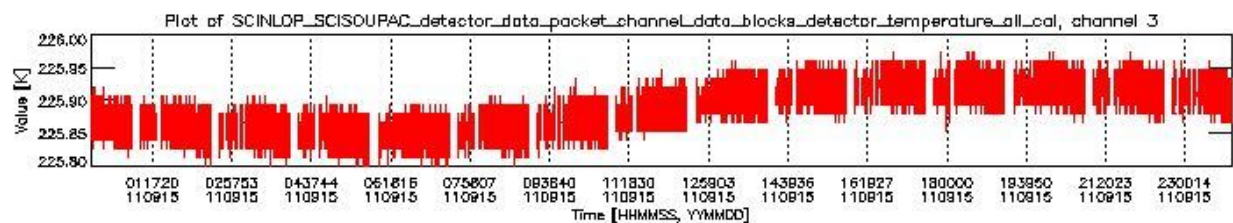
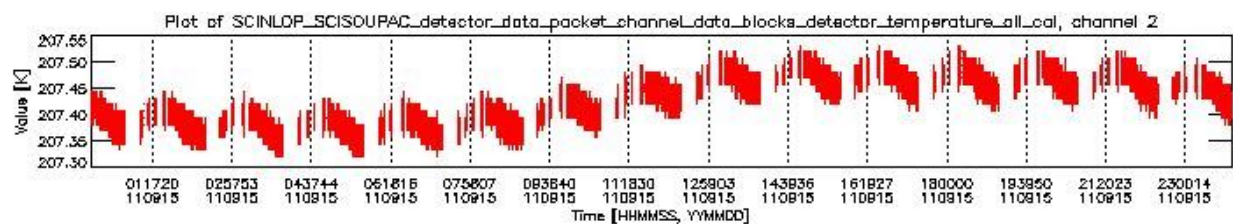
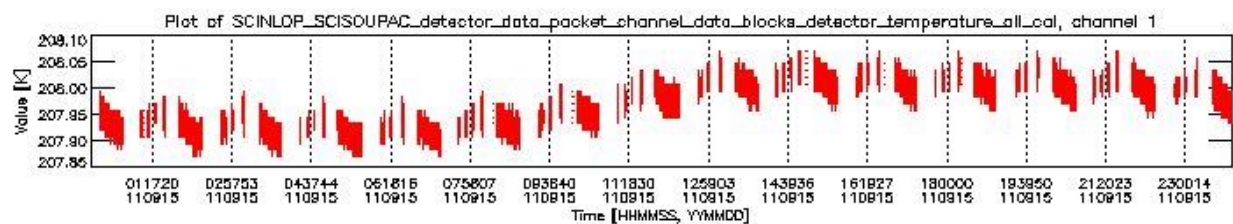
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110915\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110915\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110915\_3.PNG

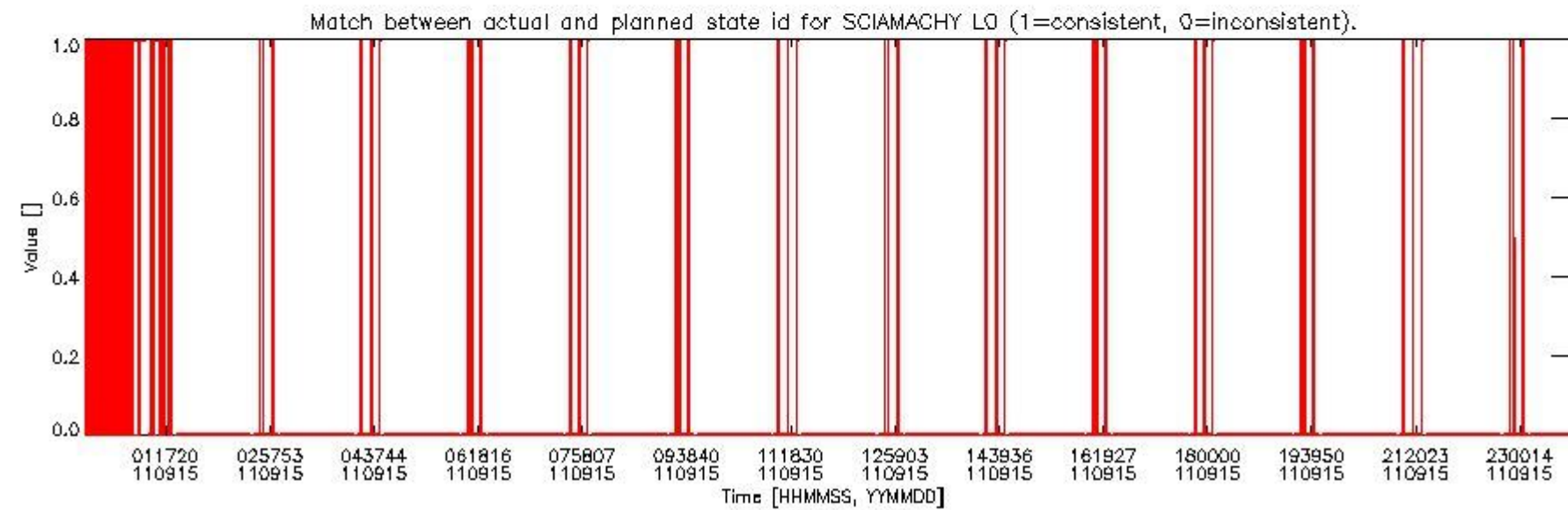
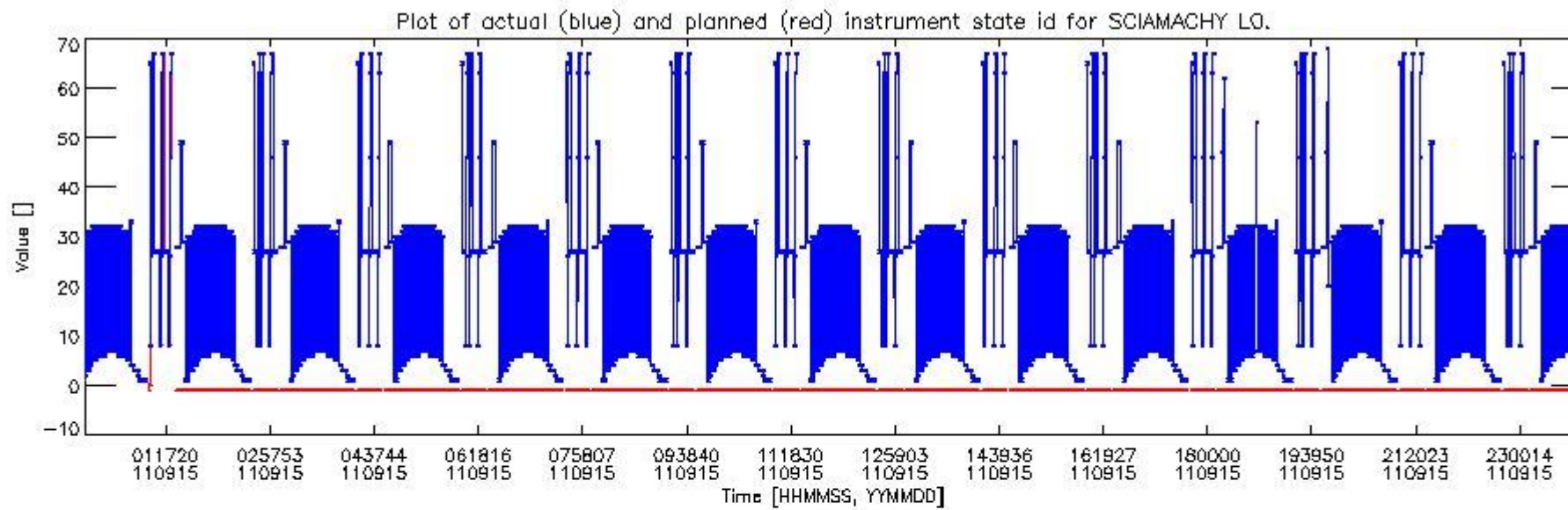


### 0.3 State monitoring

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: **341208**

#	Actual time	Actual value	Planned time	Planned value
0	15SEP2011 00:00:12.326398	30	15SEP2011 00:00:12.326398	2
1	15SEP2011 00:00:12.951398	30	15SEP2011 00:00:12.951398	2
2	15SEP2011 00:00:13.326398	30	15SEP2011 00:00:13.326398	2
3	15SEP2011 00:00:13.701398	30	15SEP2011 00:00:13.701398	2
4	15SEP2011 00:00:14.263898	30	15SEP2011 00:00:14.263898	2
5	15SEP2011 00:00:14.638898	30	15SEP2011 00:00:14.638898	2
6	15SEP2011 00:00:15.013898	30	15SEP2011 00:00:15.013898	2
7	15SEP2011 00:00:15.388898	30	15SEP2011 00:00:15.388898	2
8	15SEP2011 00:00:15.951398	30	15SEP2011 00:00:15.951398	2
9	15SEP2011 00:00:16.326398	30	15SEP2011 00:00:16.326398	2
10	15SEP2011 00:00:16.701398	30	15SEP2011 00:00:16.701398	2
11	15SEP2011 00:00:17.076398	30	15SEP2011 00:00:17.076398	2
12	15SEP2011 00:00:17.326398	30	15SEP2011 00:00:17.326398	2
13	15SEP2011 00:00:17.638898	30	15SEP2011 00:00:17.638898	2
14	15SEP2011 00:00:18.013898	30	15SEP2011 00:00:18.013898	2
15	15SEP2011 00:00:18.388898	30	15SEP2011 00:00:18.388898	2
16	15SEP2011 00:00:18.763898	30	15SEP2011 00:00:18.763898	2
17	15SEP2011 00:00:19.326398	30	15SEP2011 00:00:19.326398	2
18	15SEP2011 00:00:19.701398	30	15SEP2011 00:00:19.701398	2
19	15SEP2011 00:00:20.076398	30	15SEP2011 00:00:20.076398	2
...	...	...	...	...

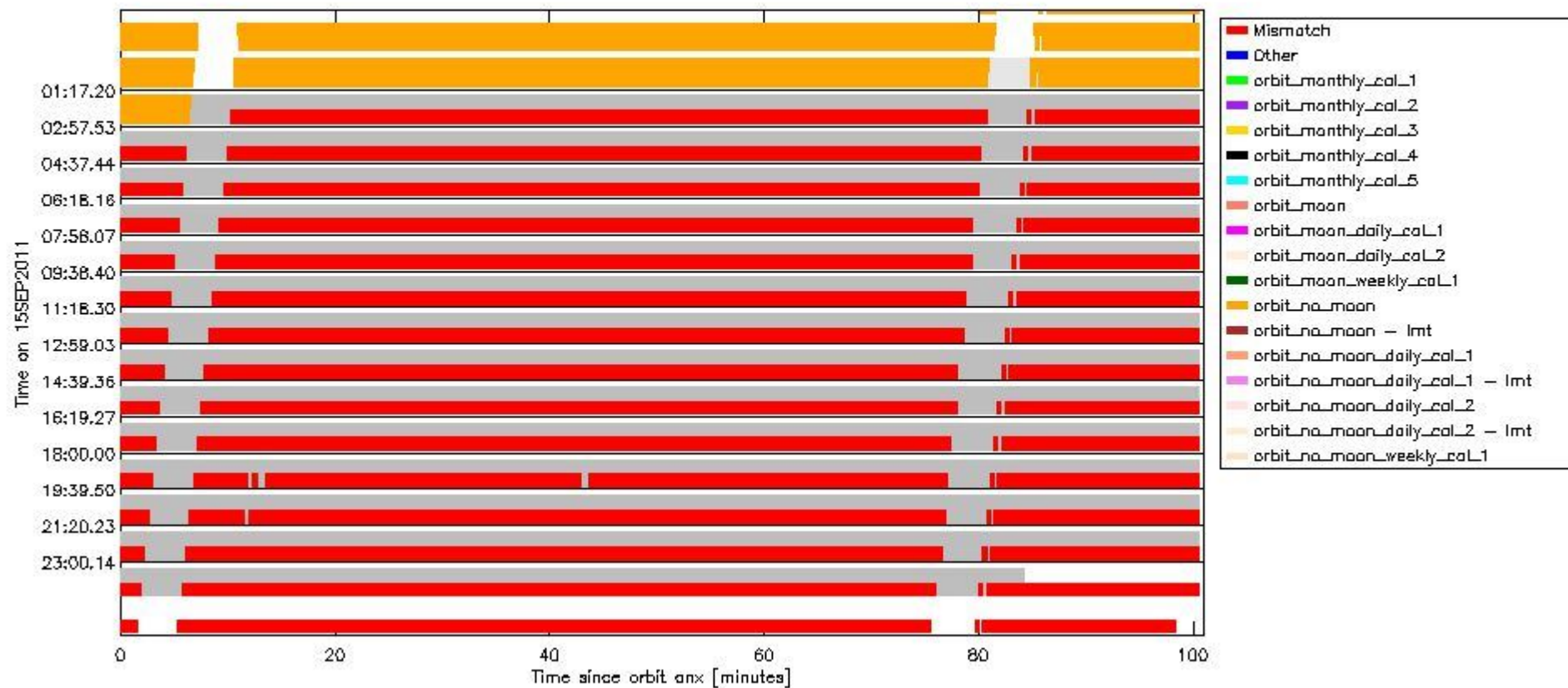


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110915\_5.PNG

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 15SEP2011.  
 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\_20110915\_6.PNG

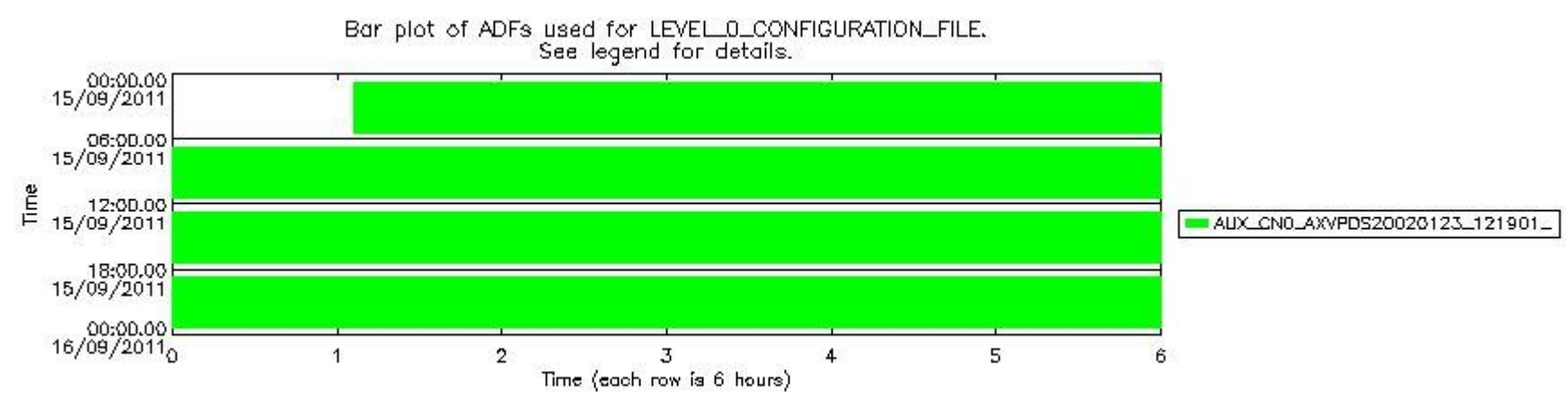
## 0.4 ADF monitoring

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

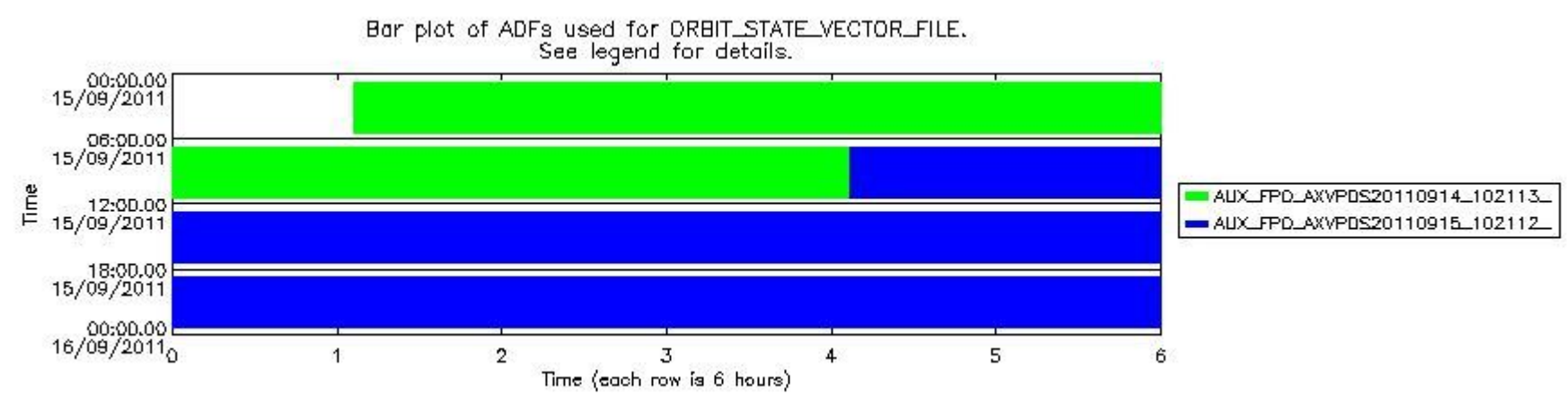
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

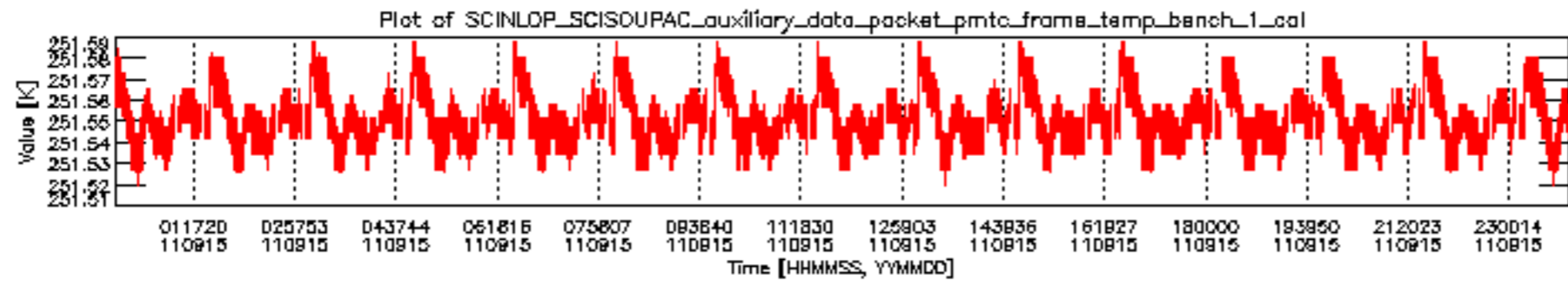
Number	ADF
	<b>CNO (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CNO_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
<b>1</b>	<b>AUX_FPO_AXVPDS20110914_102113_20110913_191316_20110923_212700</b>
<b>2</b>	<b>AUX_FPO_AXVPDS20110915_102112_20110914_183631_20110924_205015</b>



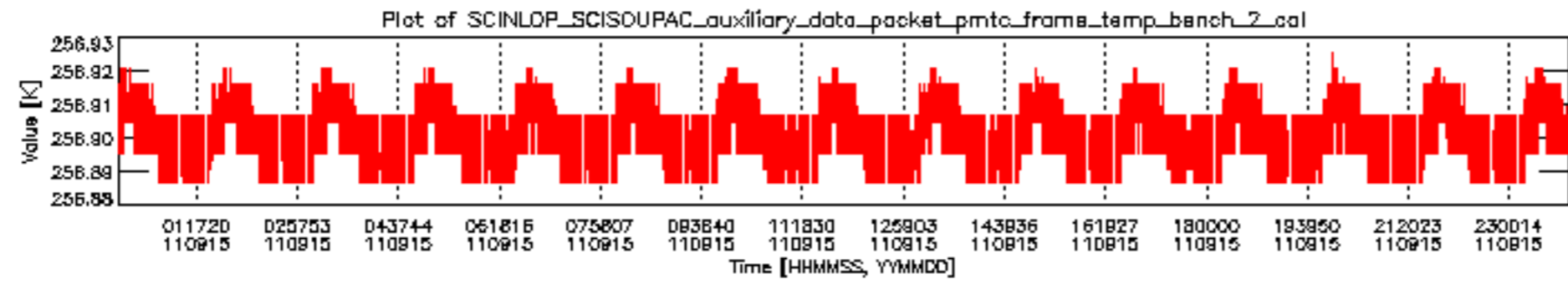
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110915\_7.PNG

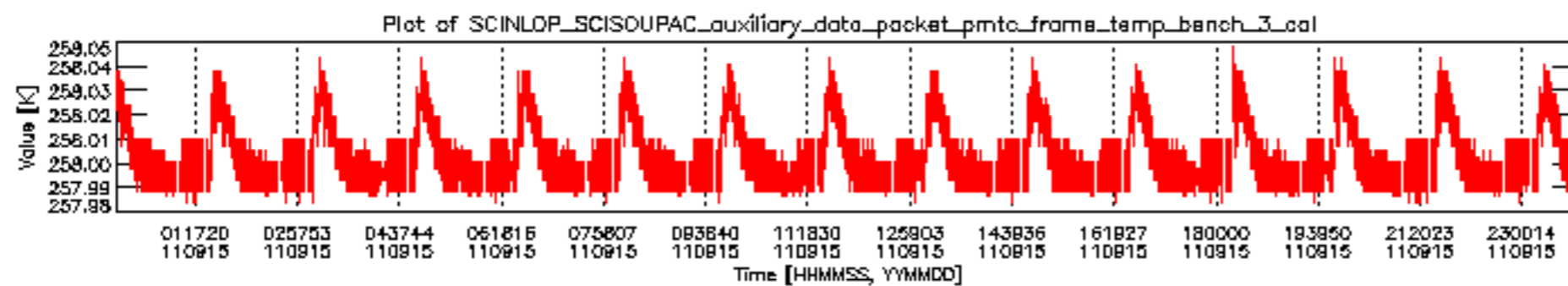


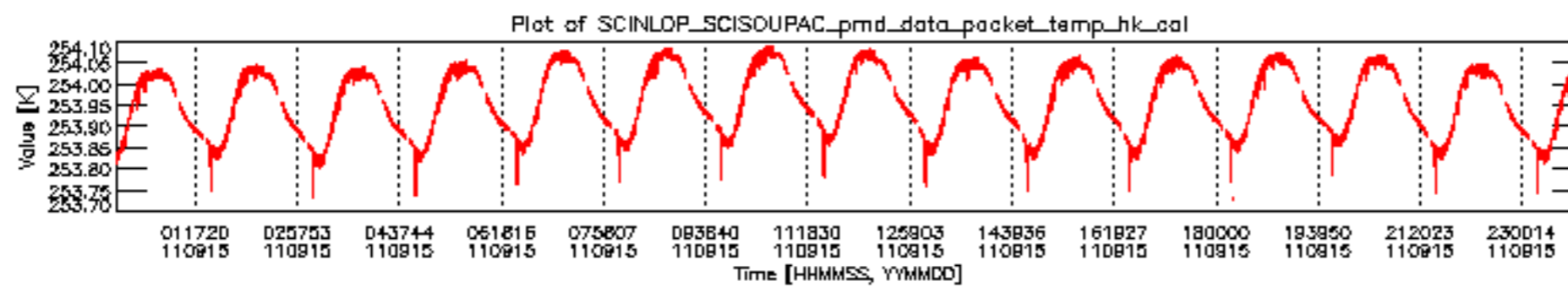
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110915\_8.PNG

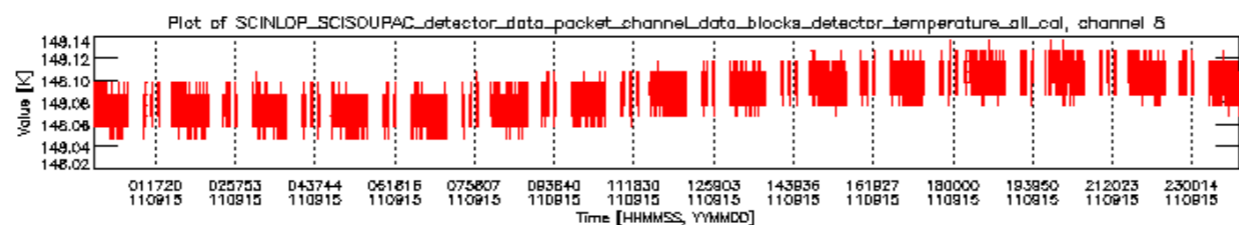
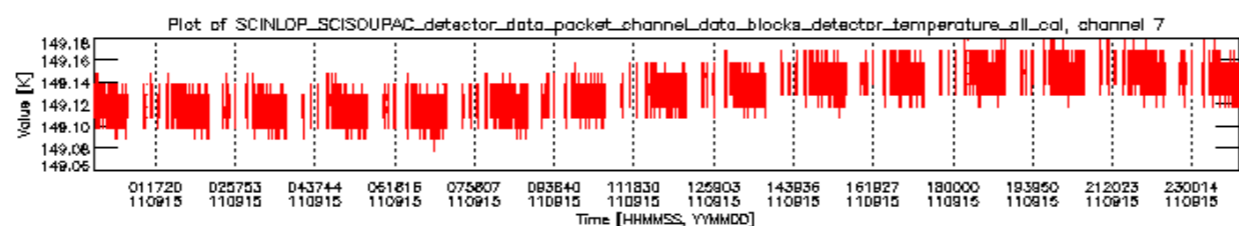
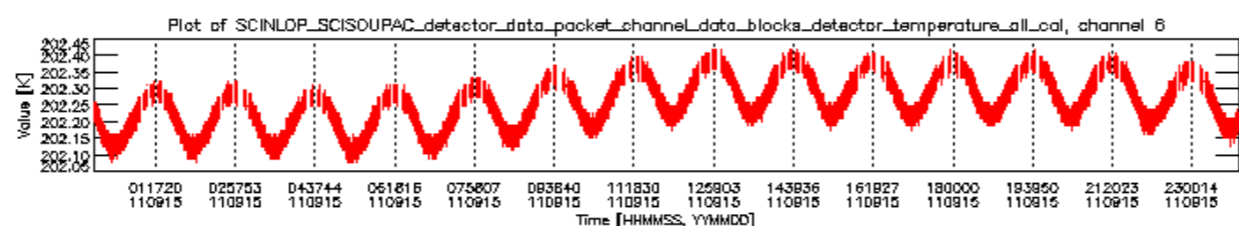
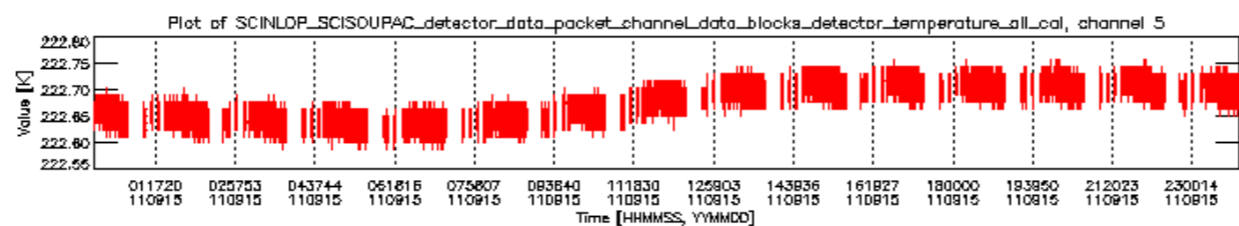
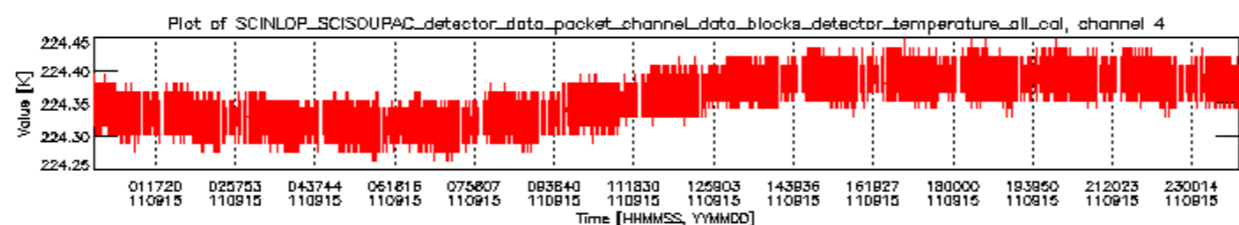
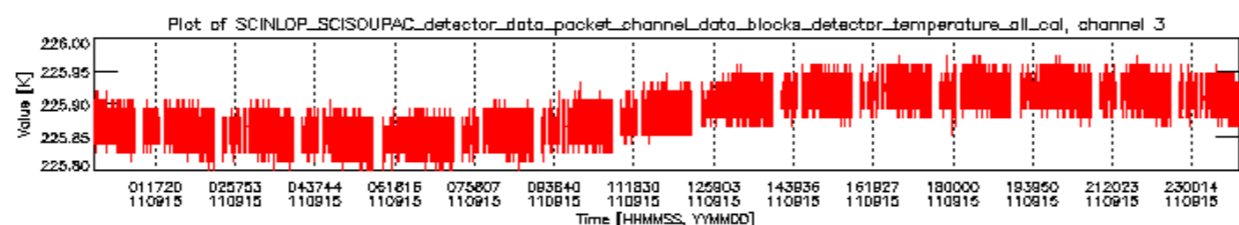
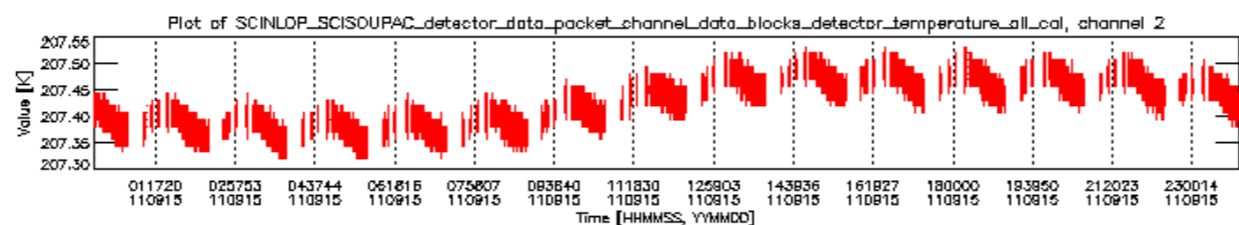
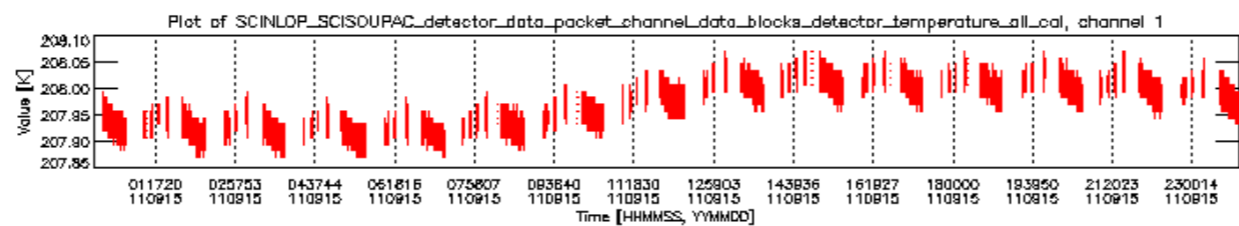


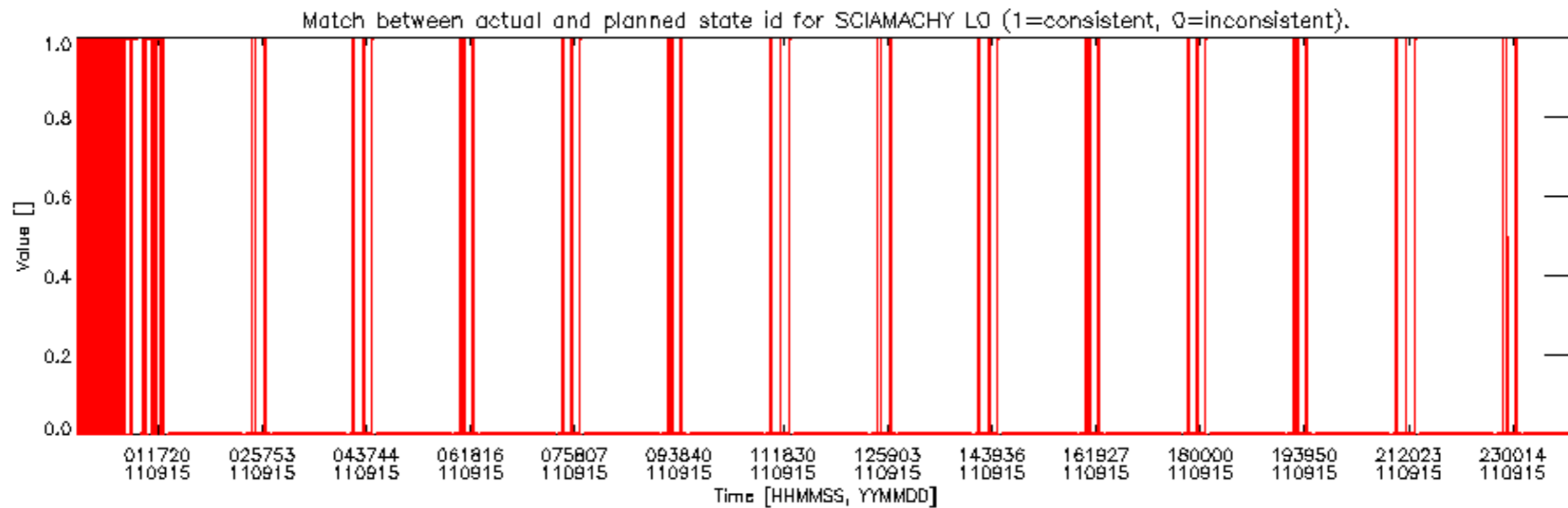
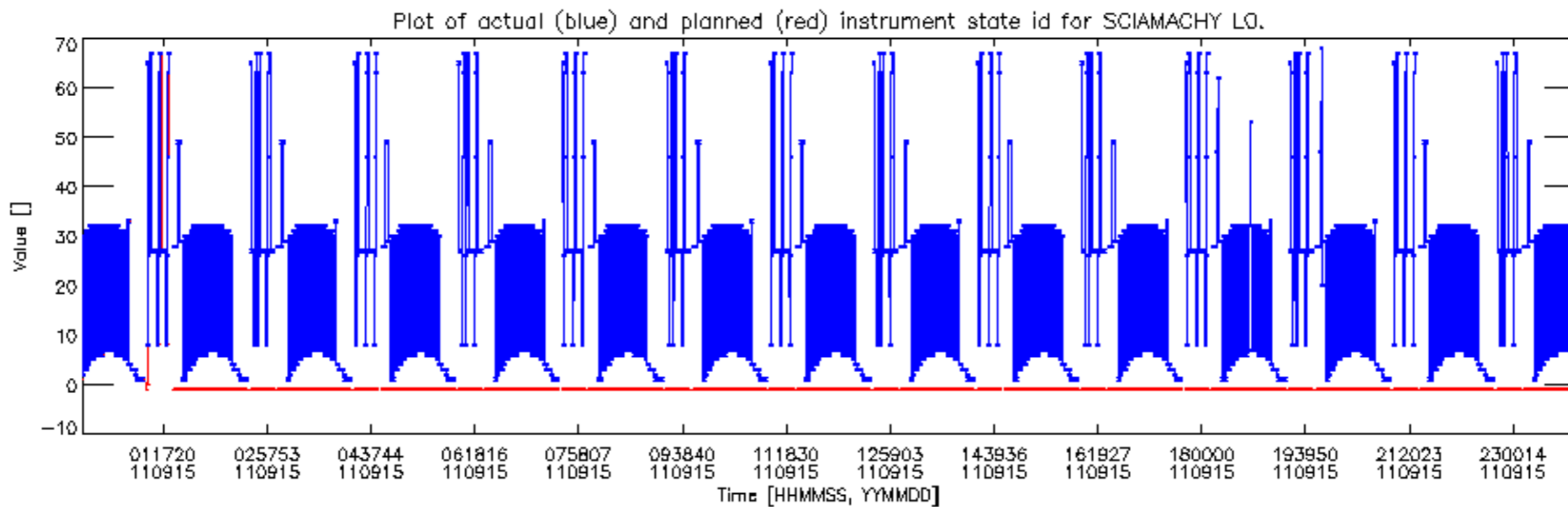












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 15SEP2011.  
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