

## 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	01MAR2011 02:58:10
Data source version	KSPT_L0/4504-N
Processing scope for products	22FEB2011 00:00:00 to 23FEB2011 00:00:00
Start time of first product within scope	22FEB2011 01:20:14
Stop time of last product within scope	23FEB2011 00:43:23
Total number of Level 0 products	14
Number of Level 0 products with errors	0

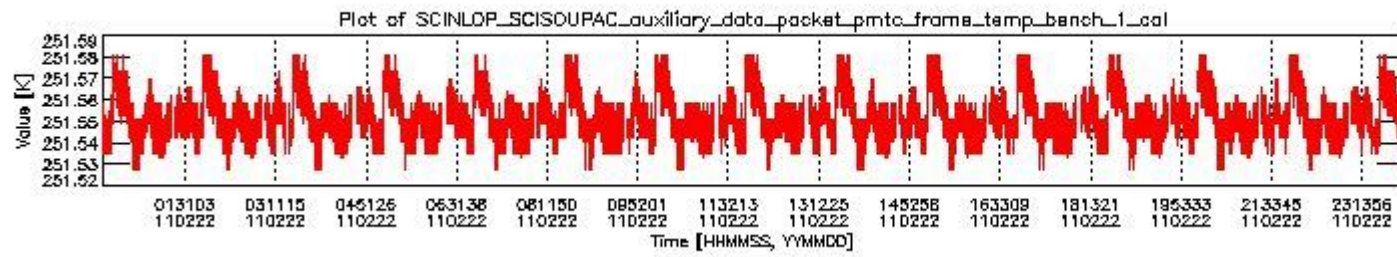
### 0.1.2 Summary per product

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

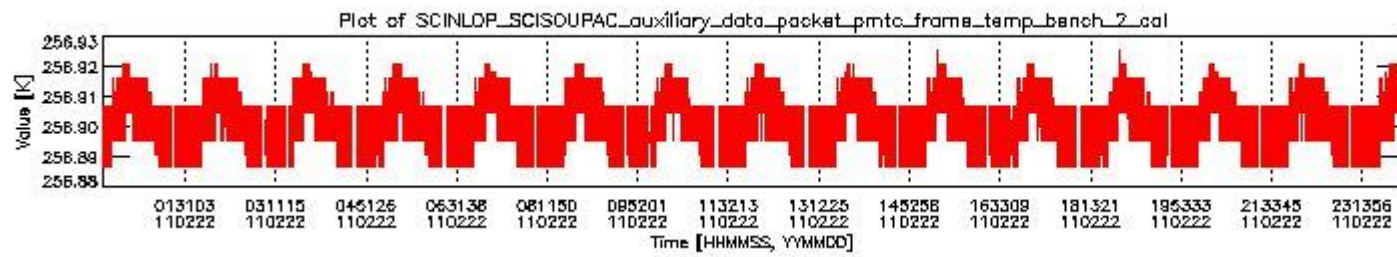
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110222_012014_000101553099_00390_46956_2606.N1	22FEB2011 01:20:14	22FEB2011 04:09:29	0	0	0	0	0
1	SCI_NL__OPNPDE20110222_040929_000061223099_00392_46958_2607.N1	22FEB2011 04:09:29	22FEB2011 05:51:31	0	0	0	0	0
2	SCI_NL__OPNPDE20110222_055131_000062053099_00393_46959_2608.N1	22FEB2011 05:51:31	22FEB2011 07:34:56	0	0	0	0	0
3	SCI_NL__OPNPDK20110222_073456_000038583099_00394_46960_3903.N1	22FEB2011 07:34:56	22FEB2011 08:39:14	0	0	0	0	0
4	SCI_NL__OPNPDK20110222_083820_000062053099_00395_46961_3904.N1	22FEB2011 08:38:20	22FEB2011 10:21:45	0	0	0	0	0
5	SCI_NL__OPNPDK20110222_102036_000058223099_00396_46962_3905.N1	22FEB2011 10:20:36	22FEB2011 11:57:38	0	0	0	0	0
6	SCI_NL__OPNPDK20110222_115644_000060823099_00397_46963_3906.N1	22FEB2011 11:56:44	22FEB2011 13:38:06	0	0	0	0	0
7	SCI_NL__OPNPDK20110222_133658_000059453099_00398_46964_3907.N1	22FEB2011 13:36:58	22FEB2011 15:16:03	0	0	0	0	0
8	SCI_NL__OPNPDK20110222_151508_000059593099_00399_46965_3908.N1	22FEB2011 15:15:08	22FEB2011 16:54:28	0	0	0	0	0
9	SCI_NL__OPNPDK20110222_165334_000058223099_00400_46966_3909.N1	22FEB2011 16:53:34	22FEB2011 18:30:35	0	0	0	0	0
10	SCI_NL__OPNPDK20110222_183035_000060143099_00401_46967_3910.N1	22FEB2011 18:30:35	22FEB2011 20:10:49	0	0	0	0	0
11	SCI_NL__OPNPDE20110222_200859_000040773099_00402_46968_2609.N1	22FEB2011 20:08:59	22FEB2011 21:16:56	0	0	0	0	0
12	SCI_NL__OPNPDE20110222_212256_000060573099_00402_46968_2610.N1	22FEB2011 21:22:56	22FEB2011 23:03:53	0	0	0	0	0
13	SCI_NL__OPNPDE20110222_230353_000059703099_00403_46969_2611.N1	22FEB2011 23:03:53	23FEB2011 00:43:23	0	0	0	0	0

## 0.2 Product Quality Indicators

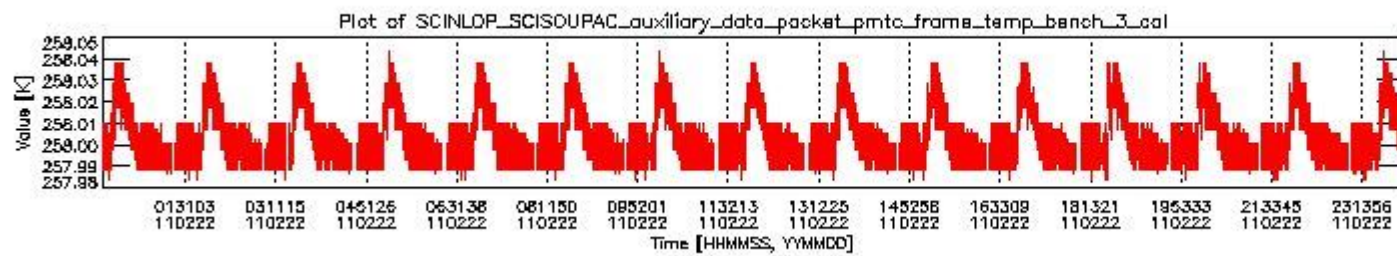
This section shows information about product quality, currently temperatures.



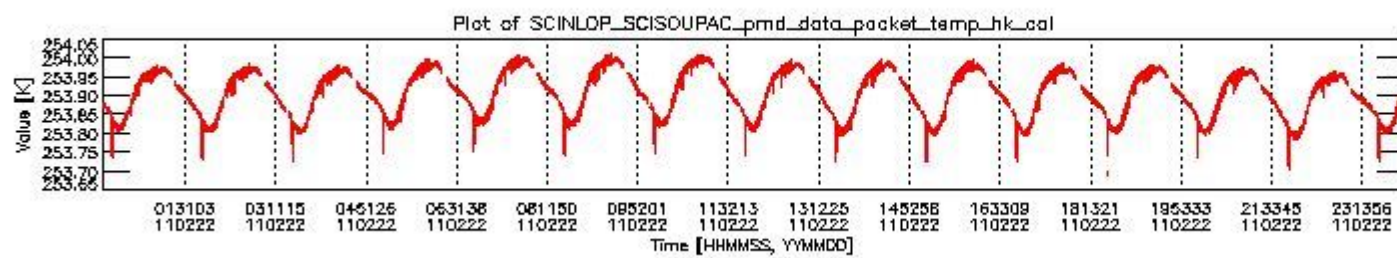
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110222\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110222\_1.PNG

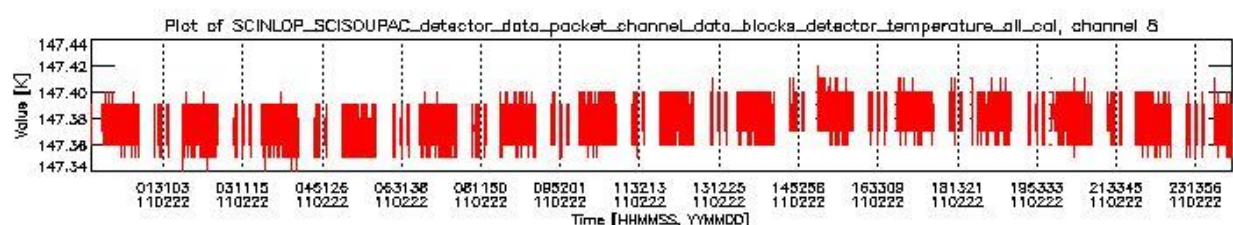
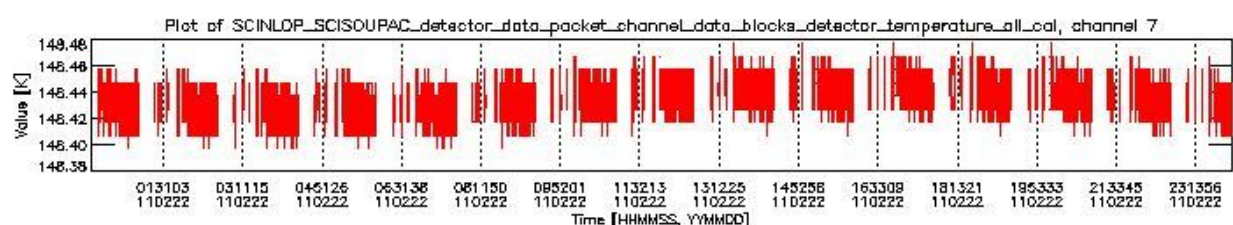
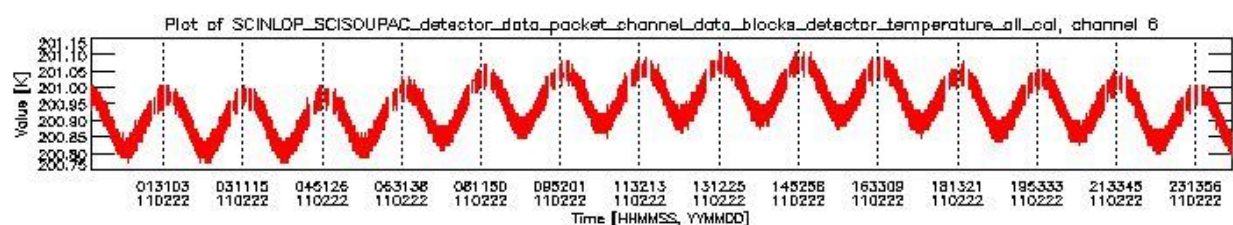
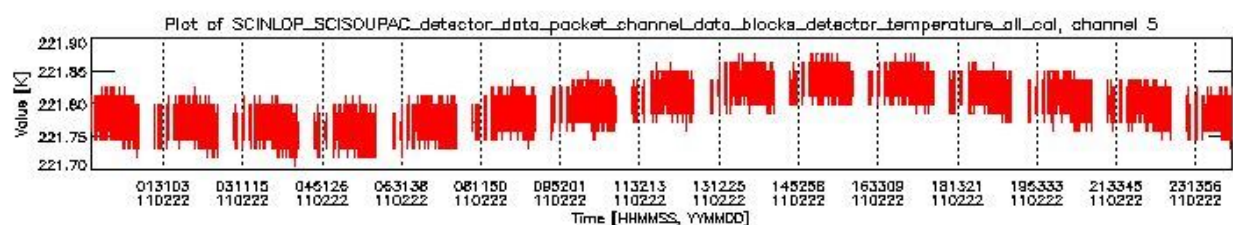
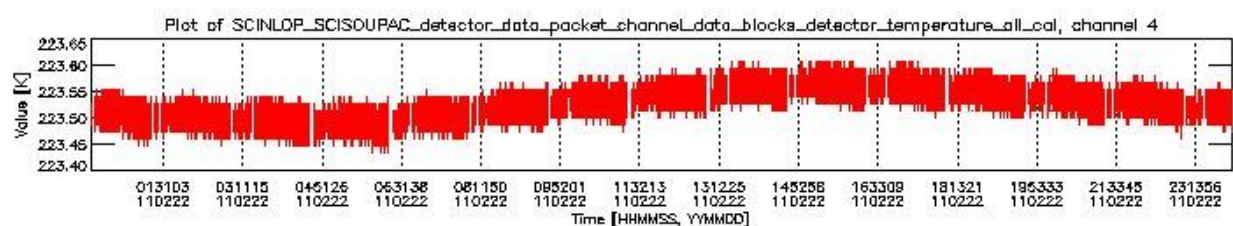
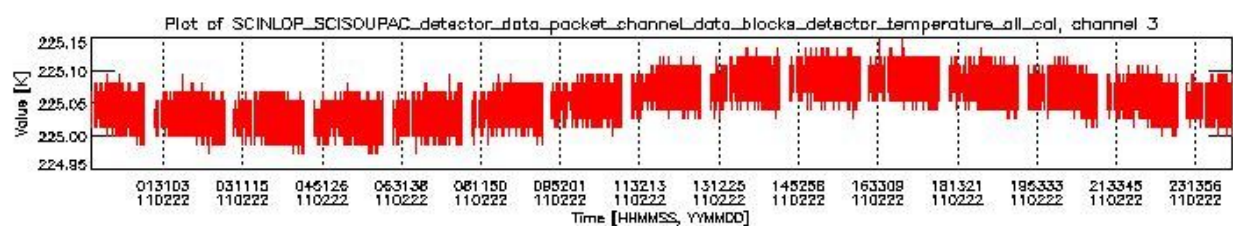
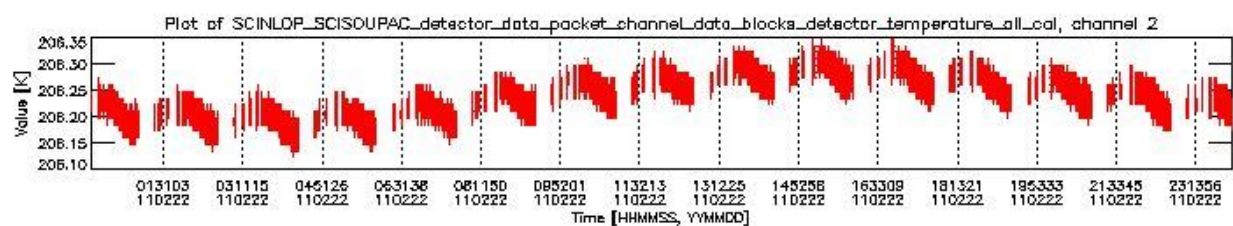
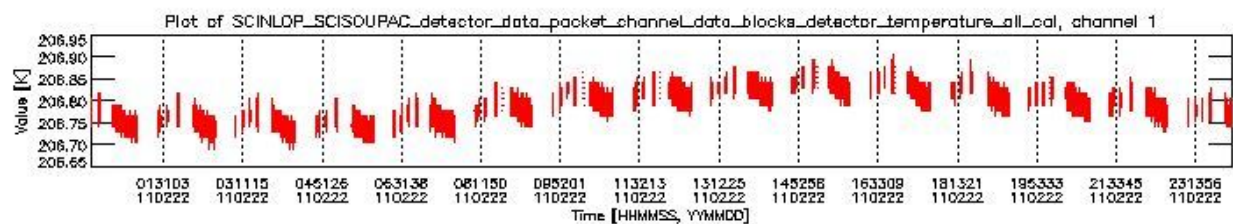


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110222\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110222\_3.PNG



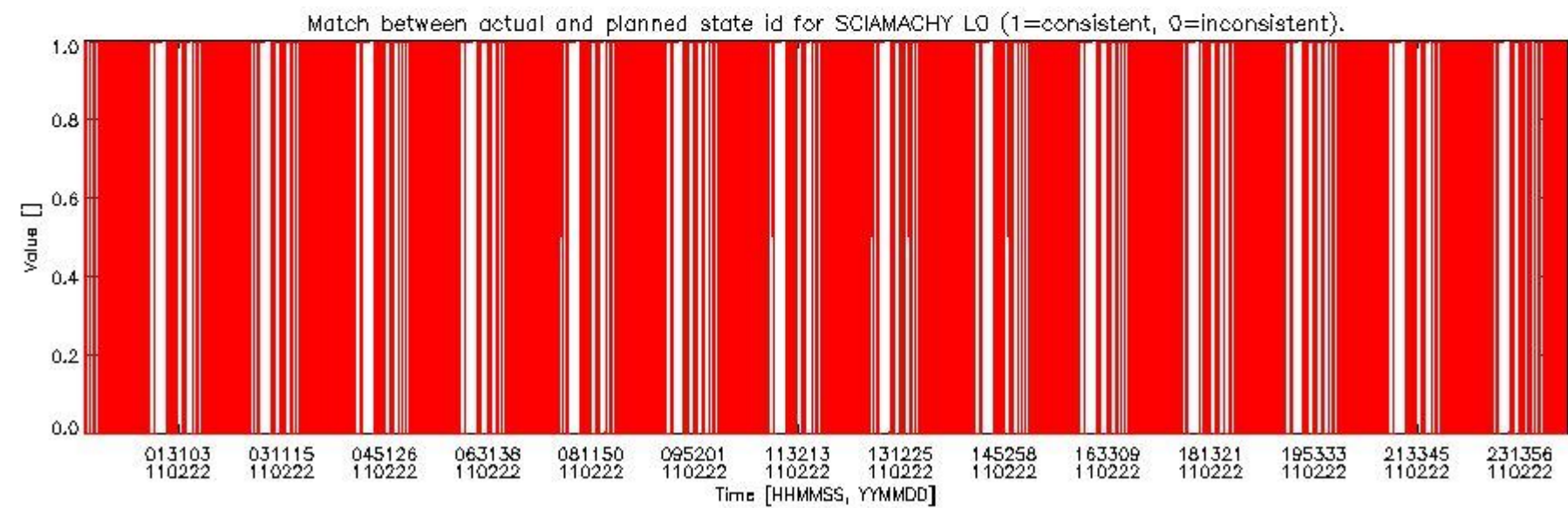
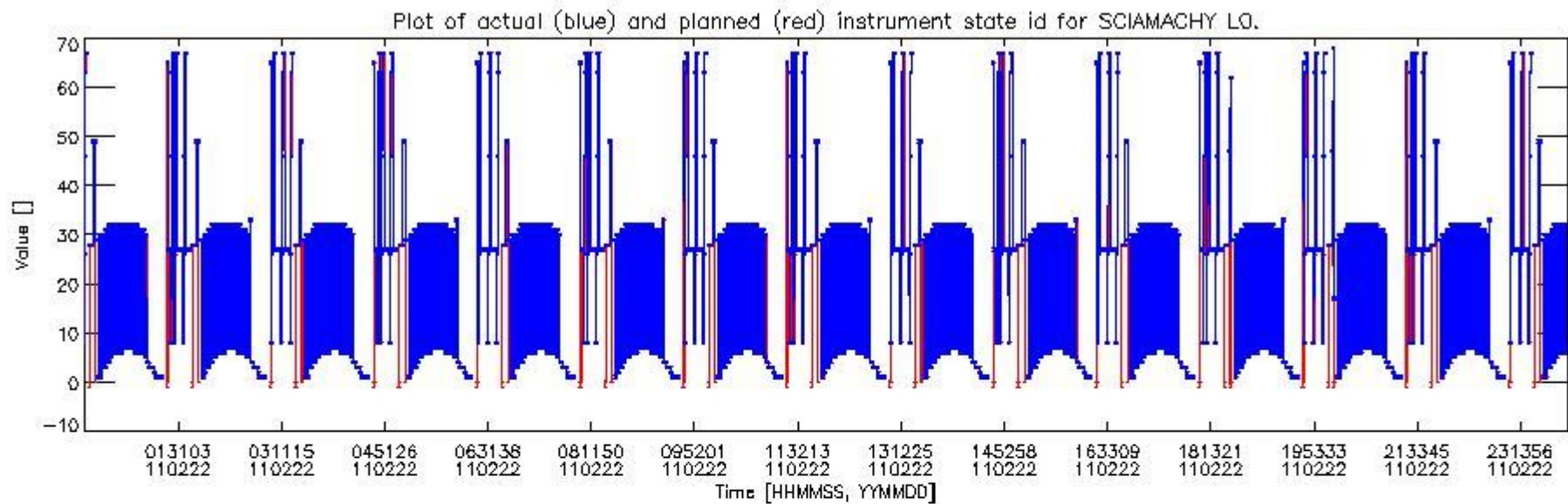


### 0.3 State monitoring

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: **36712**

#	Actual time	Actual value	Planned time	Planned value
0	22FEB2011 00:00:00.189787	46	22FEB2011 00:00:00.189787	26
1	22FEB2011 00:00:00.689787	46	22FEB2011 00:00:00.689787	26
2	22FEB2011 00:00:01.189787	46	22FEB2011 00:00:01.189787	26
3	22FEB2011 00:00:01.689787	46	22FEB2011 00:00:01.689787	26
4	22FEB2011 00:00:02.189787	46	22FEB2011 00:00:02.189787	26
5	22FEB2011 00:00:02.689787	46	22FEB2011 00:00:02.689787	26
6	22FEB2011 00:00:03.189787	46	22FEB2011 00:00:03.189787	26
7	22FEB2011 00:00:03.564787	46	22FEB2011 00:00:03.564787	26
8	22FEB2011 00:00:03.689787	46	22FEB2011 00:00:03.689787	26
9	22FEB2011 00:00:04.189787	46	22FEB2011 00:00:04.189787	26
10	22FEB2011 00:00:04.689787	46	22FEB2011 00:00:04.689787	26
11	22FEB2011 00:00:05.189787	46	22FEB2011 00:00:05.189787	26
12	22FEB2011 00:00:05.689787	46	22FEB2011 00:00:05.689787	26
13	22FEB2011 00:00:06.189787	46	22FEB2011 00:00:06.189787	26
14	22FEB2011 00:00:06.689787	46	22FEB2011 00:00:06.689787	26
15	22FEB2011 00:00:12.123383	63	22FEB2011 00:00:12.123383	46
16	22FEB2011 00:00:12.623383	63	22FEB2011 00:00:12.623383	46
17	22FEB2011 00:00:12.998383	63	22FEB2011 00:00:12.998383	46
18	22FEB2011 00:00:13.373383	63	22FEB2011 00:00:13.373383	46
19	22FEB2011 00:00:13.748383	63	22FEB2011 00:00:13.748383	46
	...	...	...	...



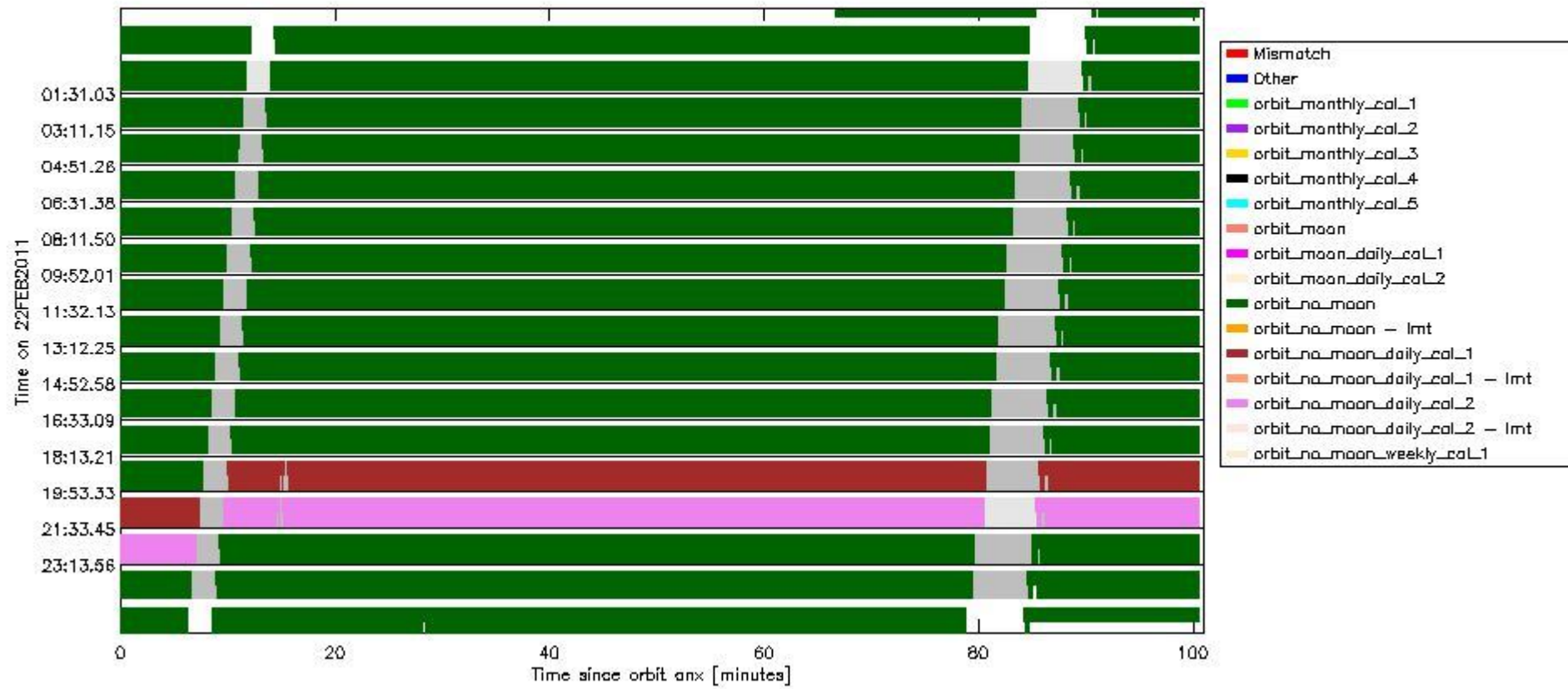
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110222\_5.PNG

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 22FEB2011.  
 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\_20110222\_6.PNG

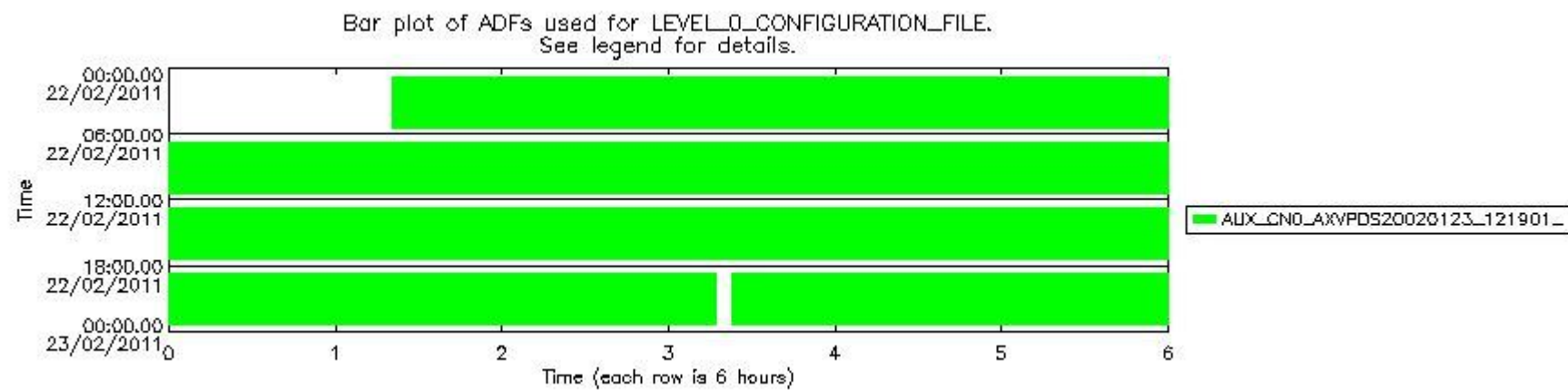
## 0.4 ADF monitoring

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

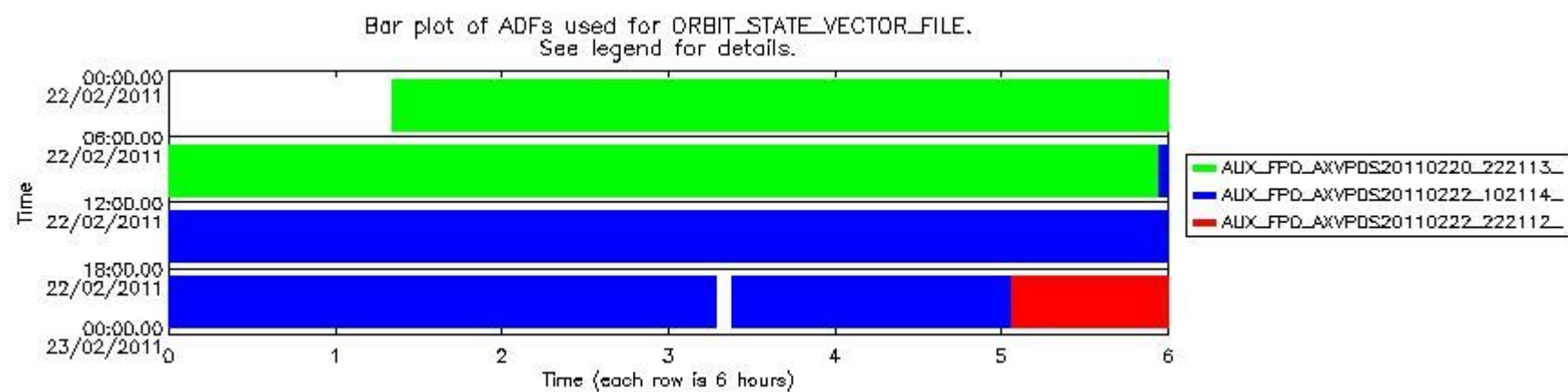
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

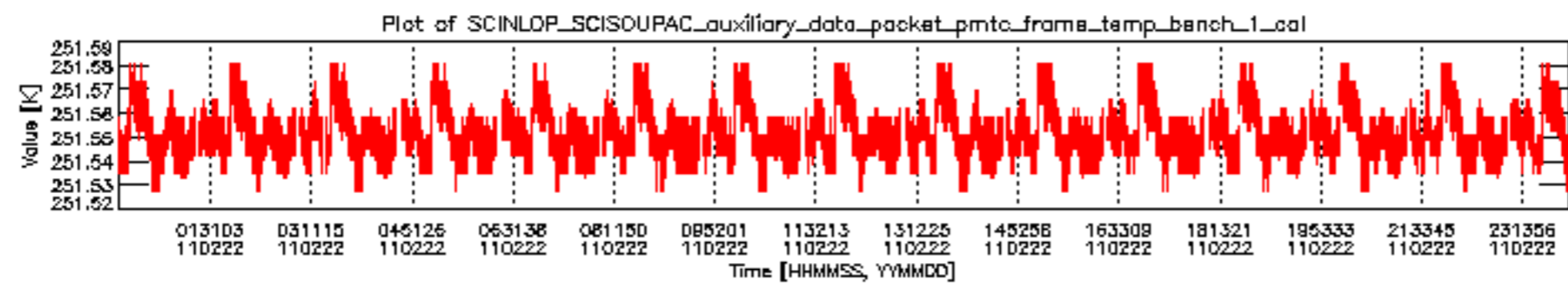
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110220_222113_20110220_192648_20110302_200024
2	AUX_FPO_AXVPDS20110222_102114_20110221_185004_20110303_210354
3	AUX_FPO_AXVPDS20110222_222112_20110222_195334_20110304_202710



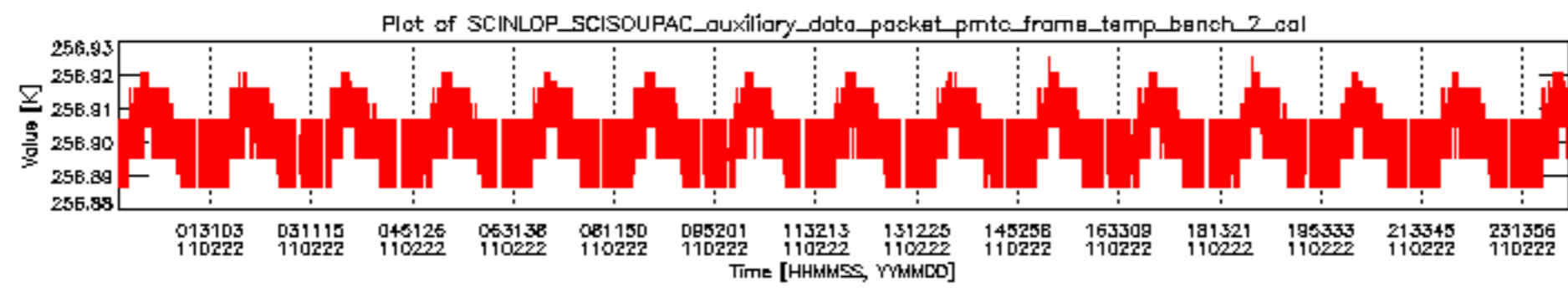
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110222\_7.PNG

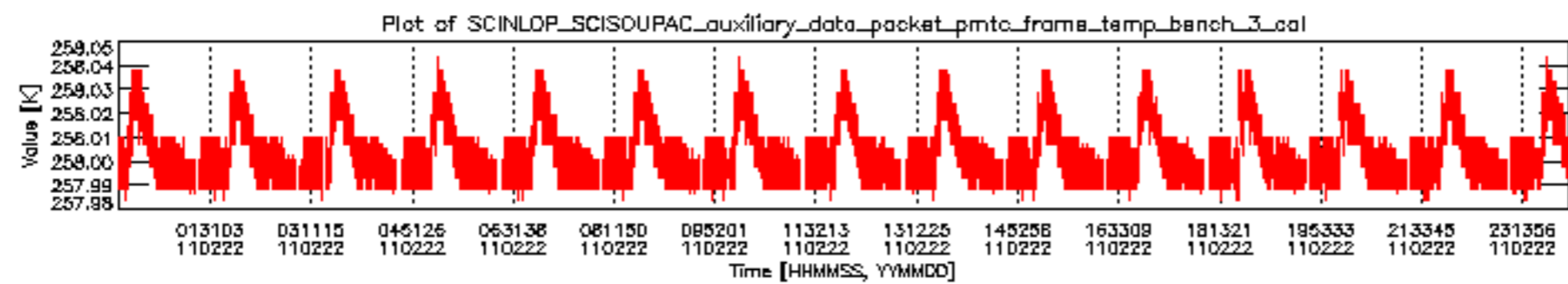


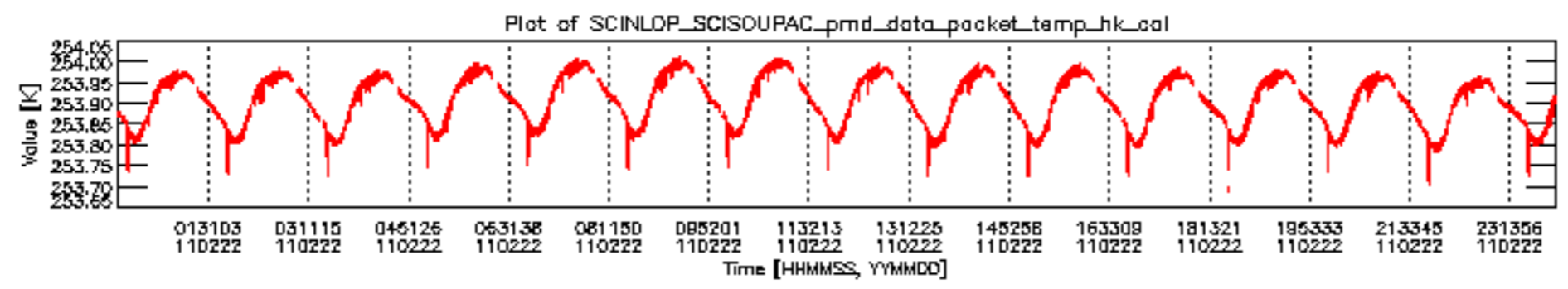
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110222\_8.PNG

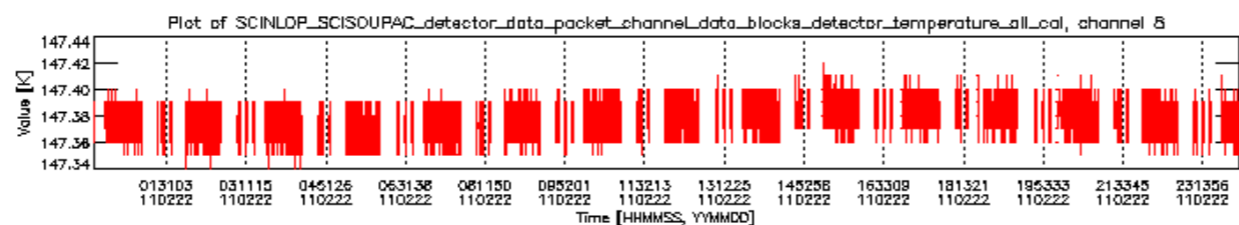
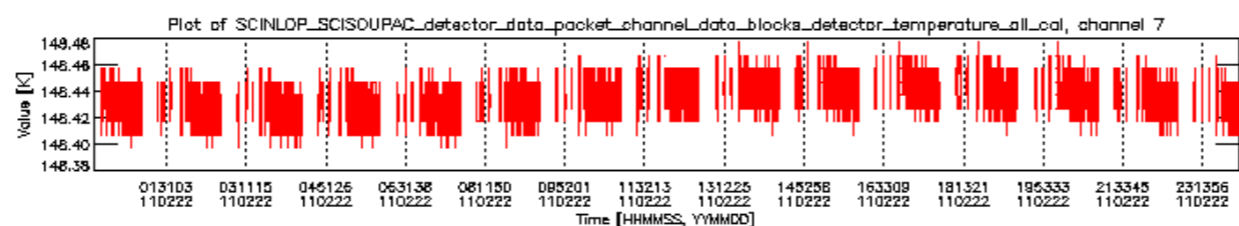
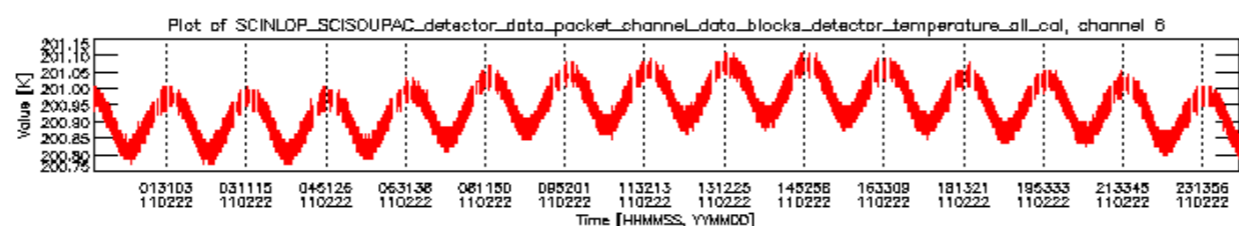
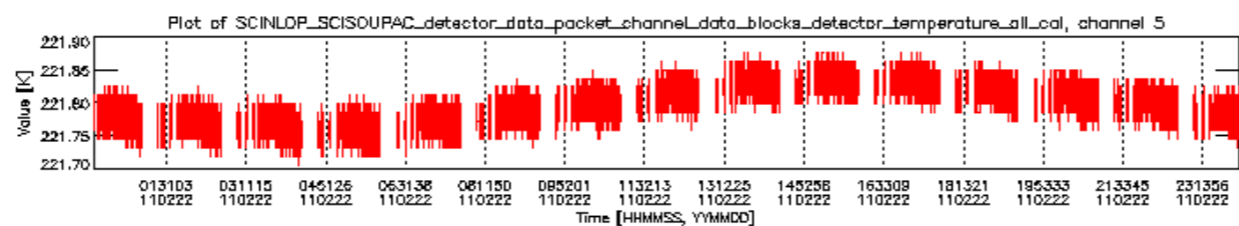
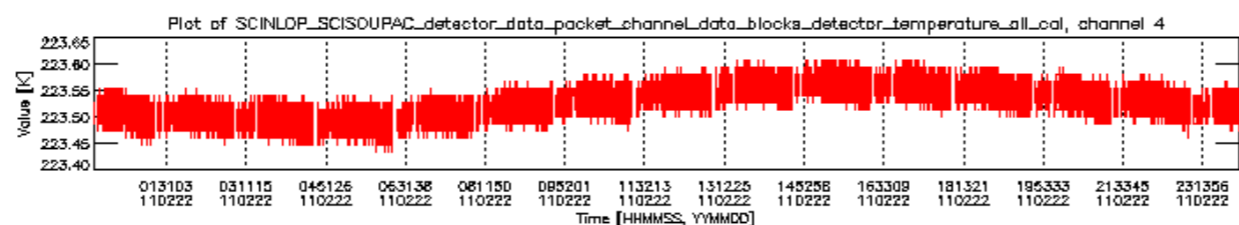
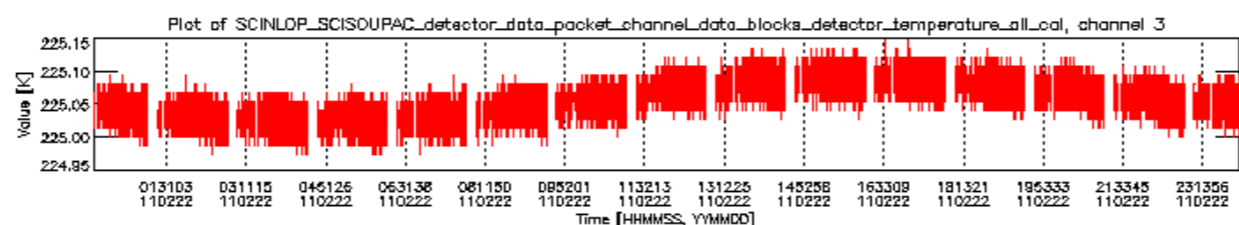
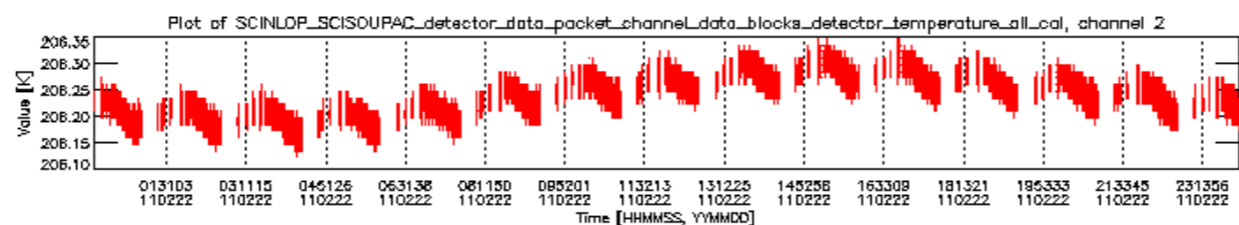
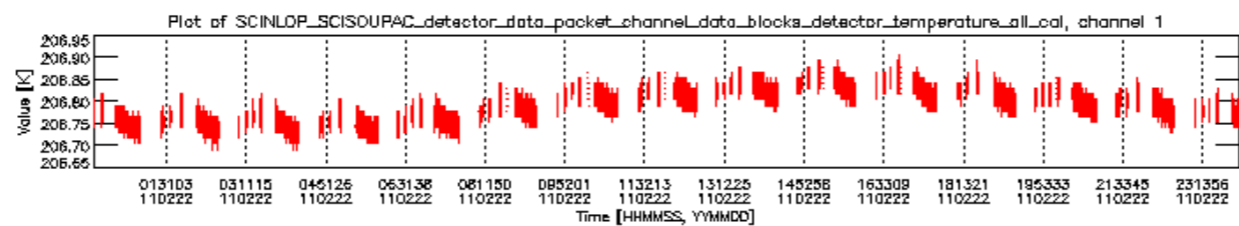




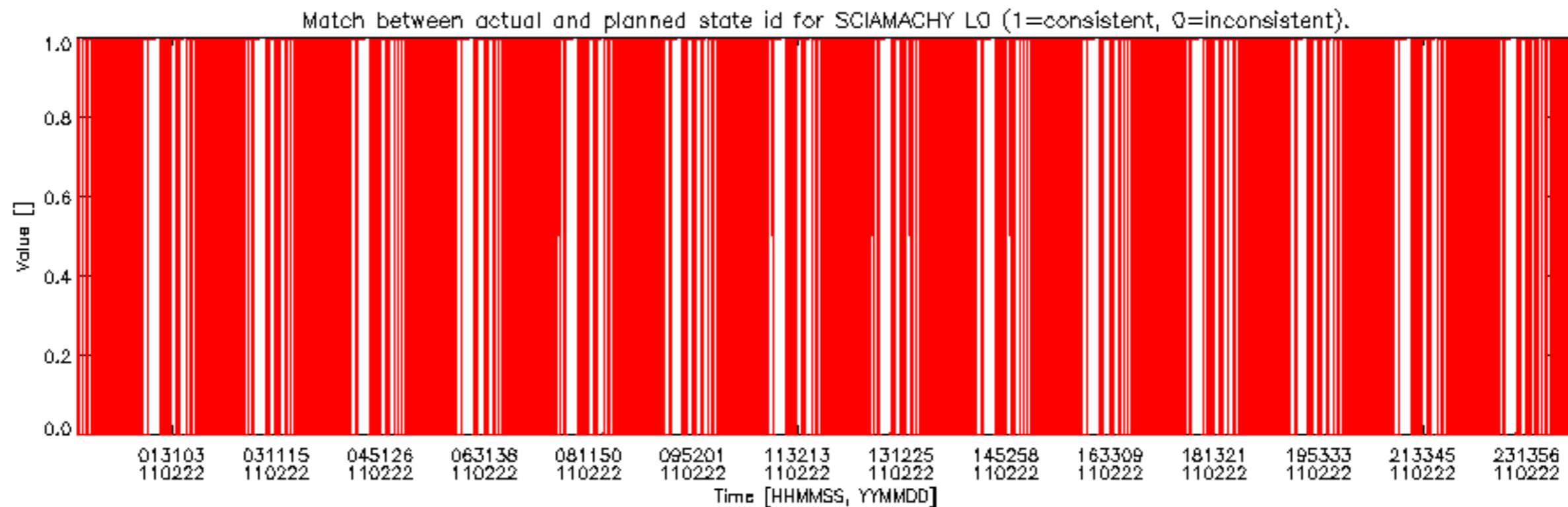
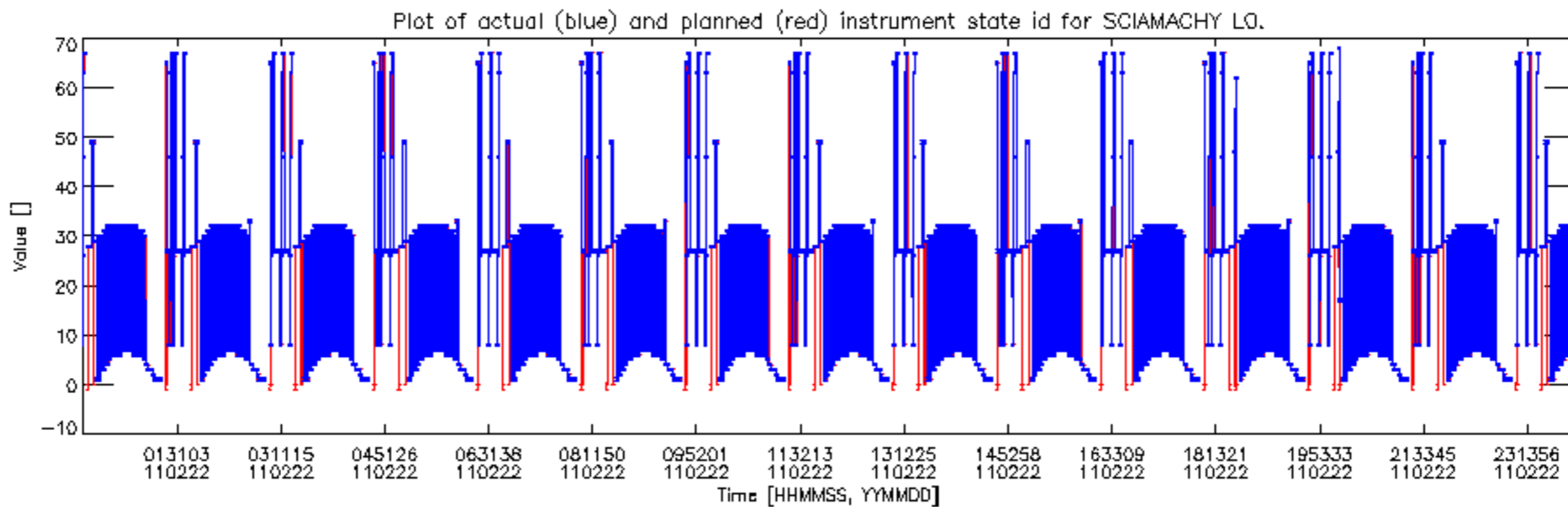












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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