

## 0. SCIAMACHY Daily Report for Level 0 products

### [0.1 General Info](#)

### [0.2 Product Quality Indicators](#)

### [0.3 State monitoring](#)

### [0.4 ADF monitoring](#)

## 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	20APR2011 03:02:30
Data source version	KSPT_LO/4504-N
Processing scope for products	13APR2011 00:00:00 to 14APR2011 00:00:00
Start time of first product within scope	13APR2011 00:46:03
Stop time of last product within scope	14APR2011 00:12:06
Total number of Level 0 products	15
Number of Level 0 products with errors	1

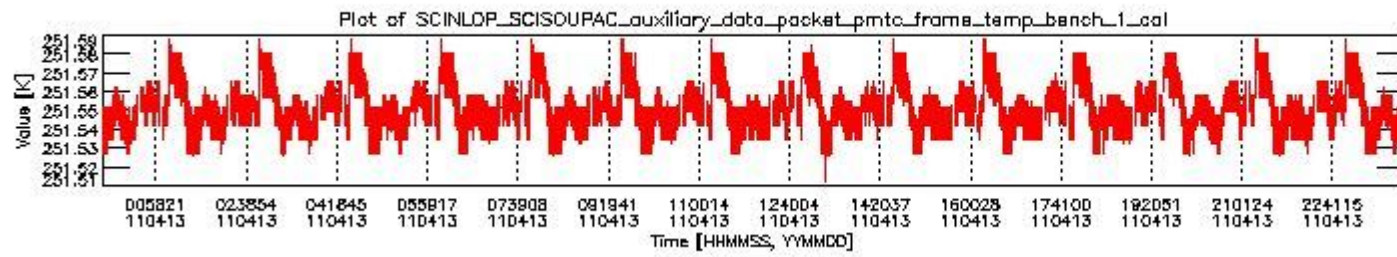
### 0.1.2 Summary per product

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

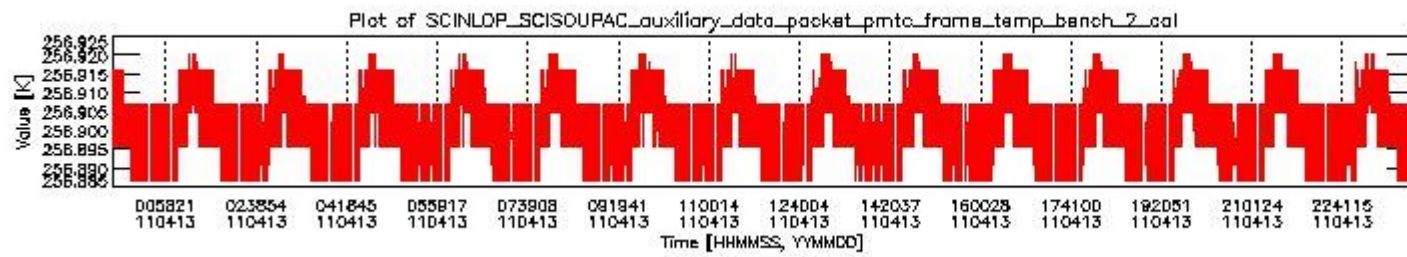
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110413_004603_000058483101_00246_47674_2916.N1	13APR2011 00:46:03	13APR2011 02:23:31	0	0	0	0	0
1	SCI_NL__OPNPDE20110413_022200_000046033101_00247_47675_2917.N1	13APR2011 02:22:00	13APR2011 03:38:43	0	0	0	0	0
2	SCI_NL__OPNPDE20110413_033734_000062053101_00248_47676_2918.N1	13APR2011 03:37:34	13APR2011 05:20:59	0	0	0	0	0
3	SCI_NL__OPNPDE20110413_051951_000060143101_00249_47677_2919.N1	13APR2011 05:19:51	13APR2011 07:00:05	0	0	0	0	0
4	SCI_NL__OPNPDK20110413_065910_000041043101_00250_47678_4332.N1	13APR2011 06:59:10	13APR2011 08:07:34	0	0	0	0	0
5	SCI_NL__OPNPDK20110413_080640_000061363101_00251_47679_4333.N1	13APR2011 08:06:40	13APR2011 09:48:56	0	0	0	0	0
6	SCI_NL__OPNPDK20110413_094856_000059453101_00252_47680_4334.N1	13APR2011 09:48:56	13APR2011 11:28:01	1	1	0	0	0
7	SCI_NL__OPNPDK20110413_112707_000060143101_00253_47681_4335.N1	13APR2011 11:27:07	13APR2011 13:07:21	0	0	0	0	0
8	SCI_NL__OPNPDK20110413_130612_000058913101_00254_47682_4336.N1	13APR2011 13:06:12	13APR2011 14:44:23	0	0	0	0	0
9	SCI_NL__OPNPDK20110413_144329_000058913101_00255_47683_4337.N1	13APR2011 14:43:29	13APR2011 16:21:40	0	0	0	0	0
10	SCI_NL__OPNPDK20110413_162031_000059043101_00256_47684_4338.N1	13APR2011 16:20:31	13APR2011 17:58:55	0	0	0	0	0
11	SCI_NL__OPNPDK20110413_175855_000059593101_00257_47685_4339.N1	13APR2011 17:58:55	13APR2011 19:38:15	0	0	0	0	0
12	SCI_NL__OPNPDK20110413_193720_000060553101_00258_47686_4340.N1	13APR2011 19:37:20	13APR2011 21:18:15	0	0	0	0	0
13	SCI_NL__OPNPDE20110413_211627_000043913101_00259_47687_2920.N1	13APR2011 21:16:27	13APR2011 22:29:38	0	0	0	0	0
14	SCI_NL__OPNPDE20110413_222810_000062363101_00259_47687_2921.N1	13APR2011 22:28:10	14APR2011 00:12:06	0	0	0	0	0

## 0.2 Product Quality Indicators

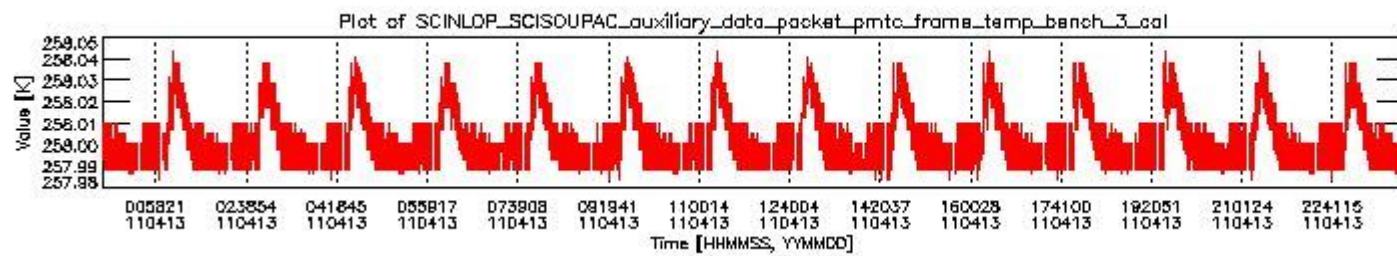
This section shows information about product quality, currently temperatures.



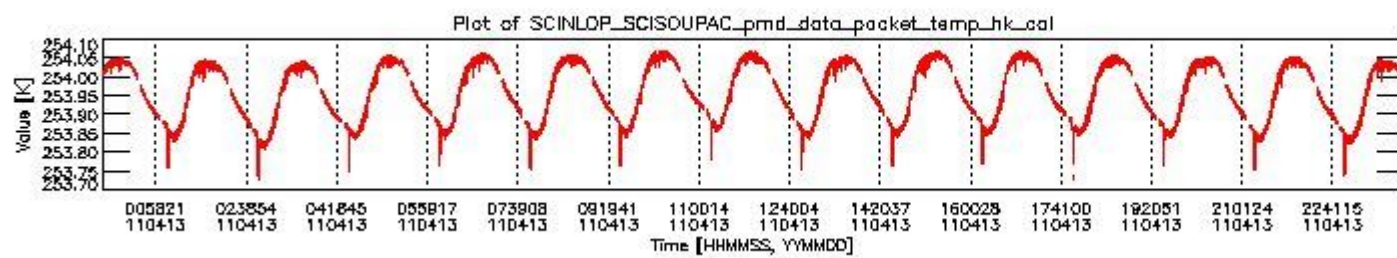
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110413\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110413\_1.PNG

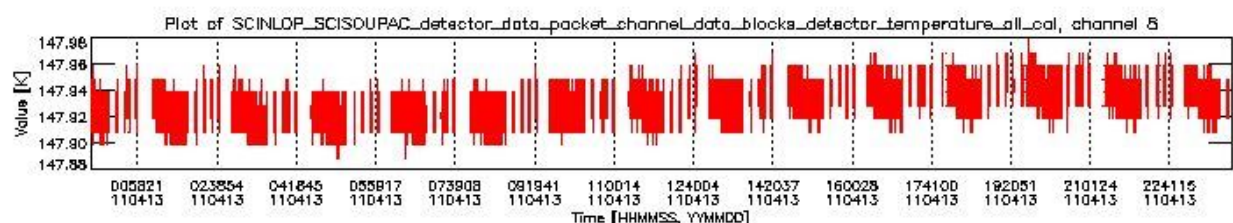
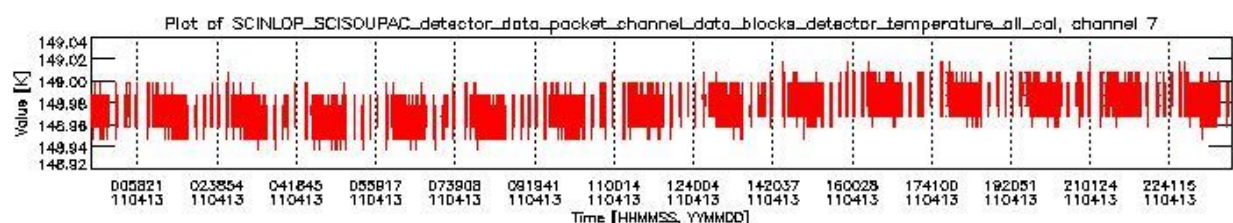
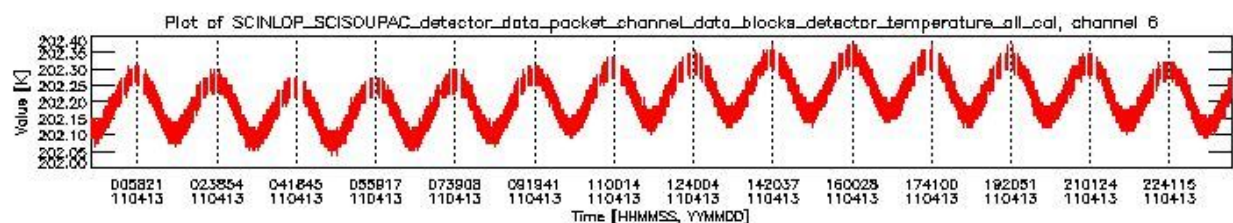
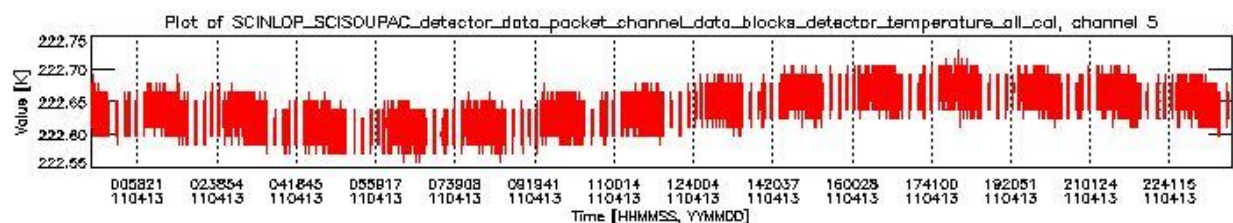
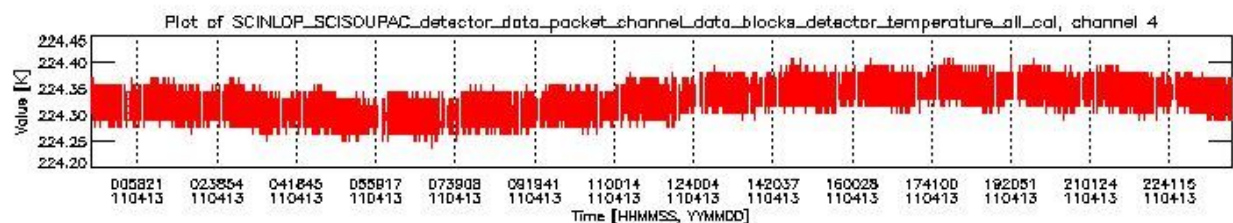
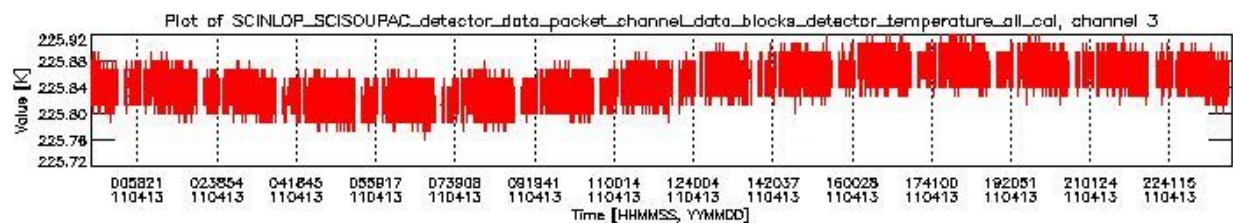
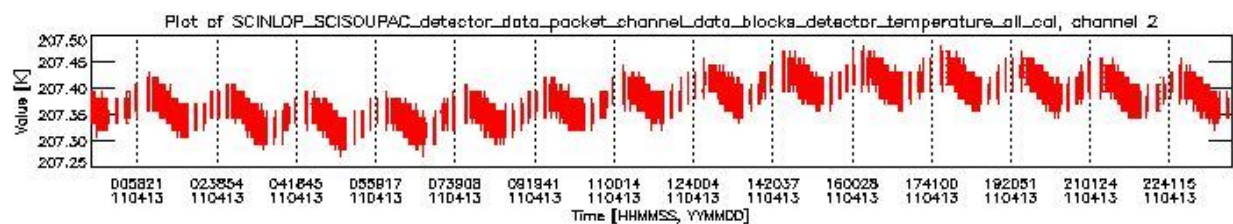
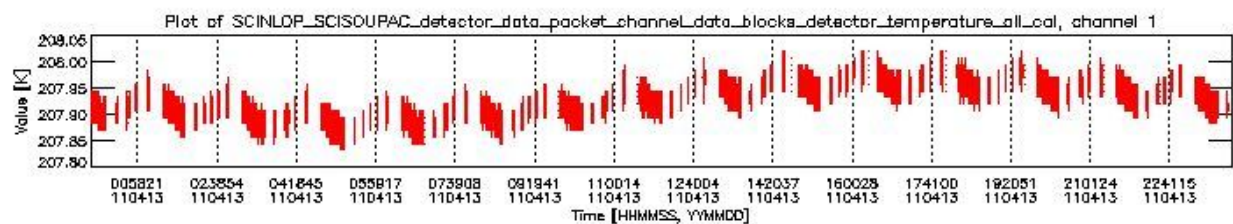


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110413\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110413\_3.PNG



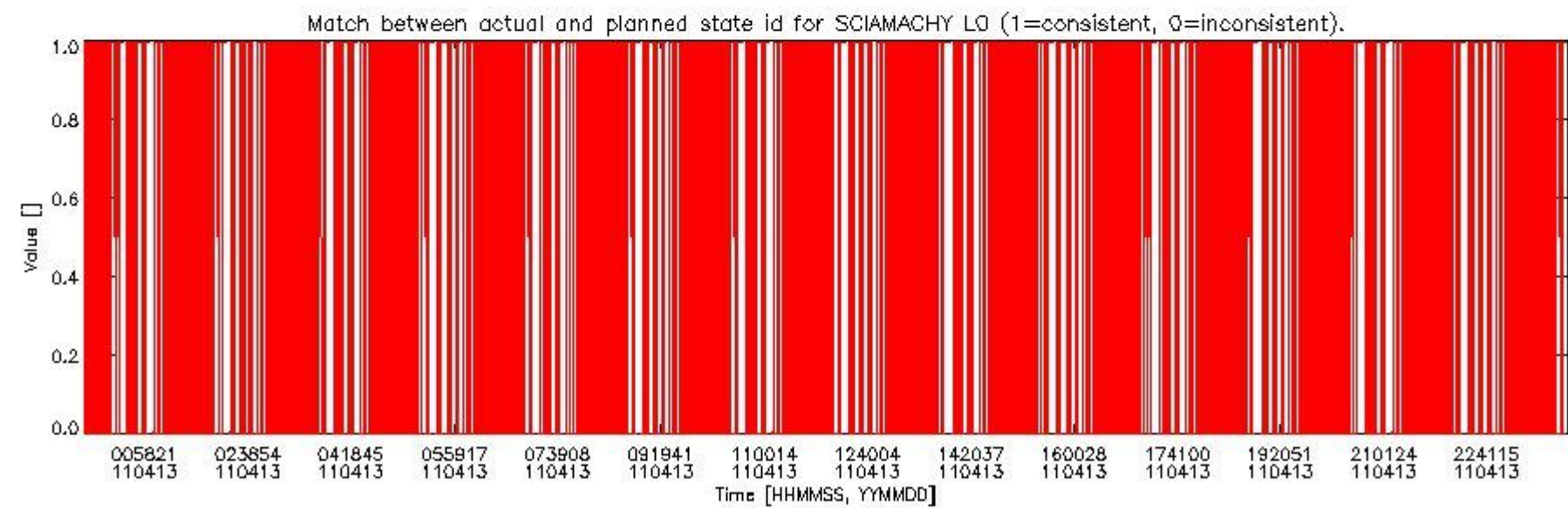
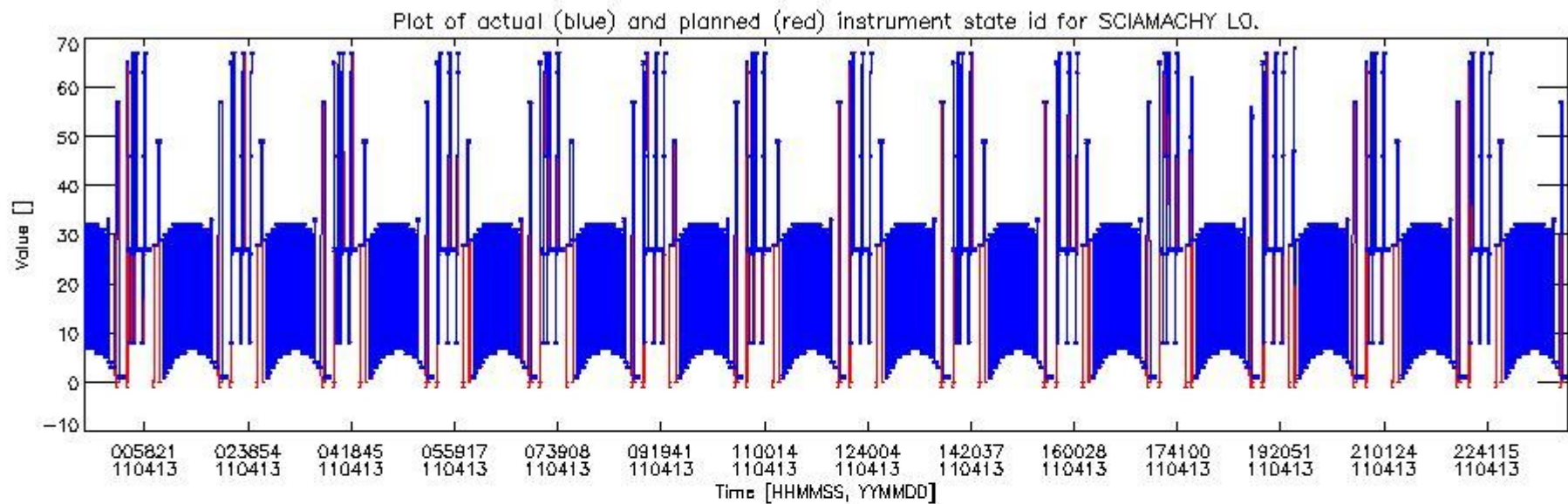


### 0.3 State monitoring

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: **59154**

#	Actual time	Actual value	Planned time	Planned value
0	13APR2011 00:00:00.394017	32	13APR2011 00:00:00.394017	7
1	13APR2011 00:00:00.769017	32	13APR2011 00:00:00.769017	7
2	13APR2011 00:00:01.144017	32	13APR2011 00:00:01.144017	7
3	13APR2011 00:00:01.519017	32	13APR2011 00:00:01.519017	7
4	13APR2011 00:00:01.706517	32	13APR2011 00:00:01.706517	7
5	13APR2011 00:00:02.081517	32	13APR2011 00:00:02.081517	7
6	13APR2011 00:00:02.456517	32	13APR2011 00:00:02.456517	7
7	13APR2011 00:00:02.831517	32	13APR2011 00:00:02.831517	7
8	13APR2011 00:00:03.206517	32	13APR2011 00:00:03.206517	7
9	13APR2011 00:00:03.769017	32	13APR2011 00:00:03.769017	7
10	13APR2011 00:00:04.144017	32	13APR2011 00:00:04.144017	7
11	13APR2011 00:00:04.519017	32	13APR2011 00:00:04.519017	7
12	13APR2011 00:00:04.894017	32	13APR2011 00:00:04.894017	7
13	13APR2011 00:00:45.890117	7	13APR2011 00:00:45.890117	32
14	13APR2011 00:00:46.265117	7	13APR2011 00:00:46.265117	32
15	13APR2011 00:00:46.515117	7	13APR2011 00:00:46.515117	32
16	13APR2011 00:00:46.765117	7	13APR2011 00:00:46.765117	32
17	13APR2011 00:00:47.015117	7	13APR2011 00:00:47.015117	32
18	13APR2011 00:00:47.265117	7	13APR2011 00:00:47.265117	32
19	13APR2011 00:00:47.515117	7	13APR2011 00:00:47.515117	32
	...	...	...	...



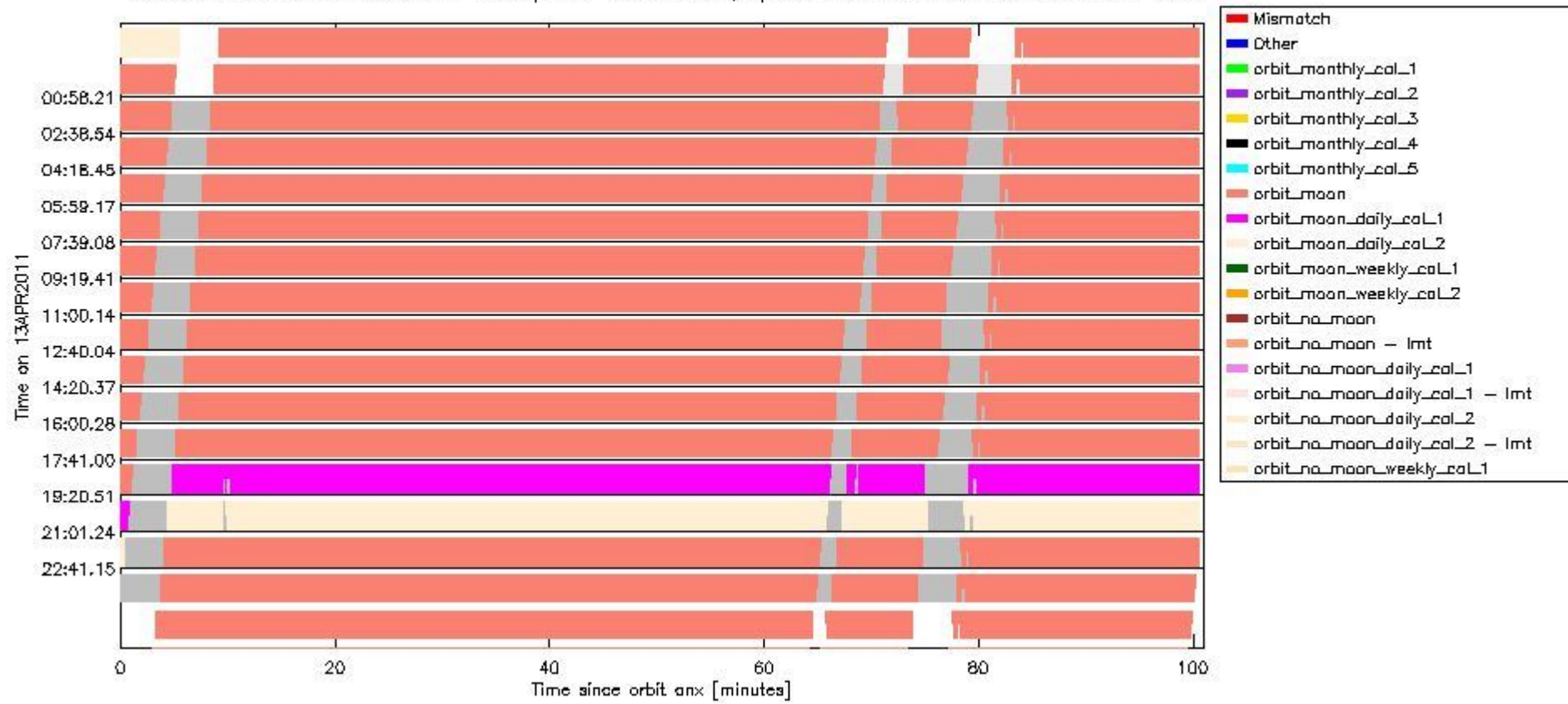
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110413\_5.PNG

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 13APR2011.  
 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\_20110413\_6.PNG

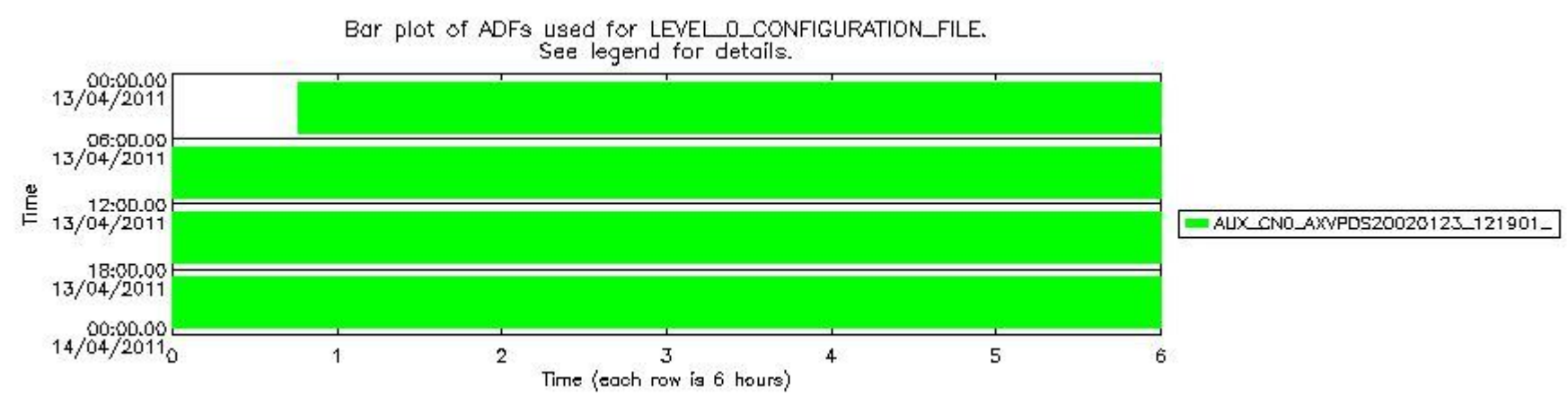
## 0.4 ADF monitoring

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

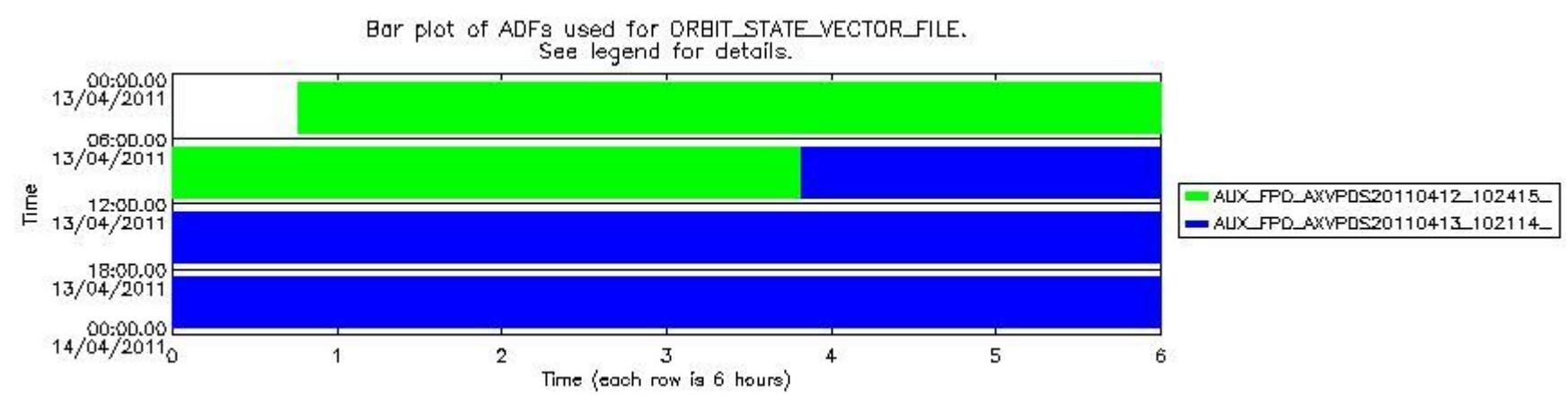
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

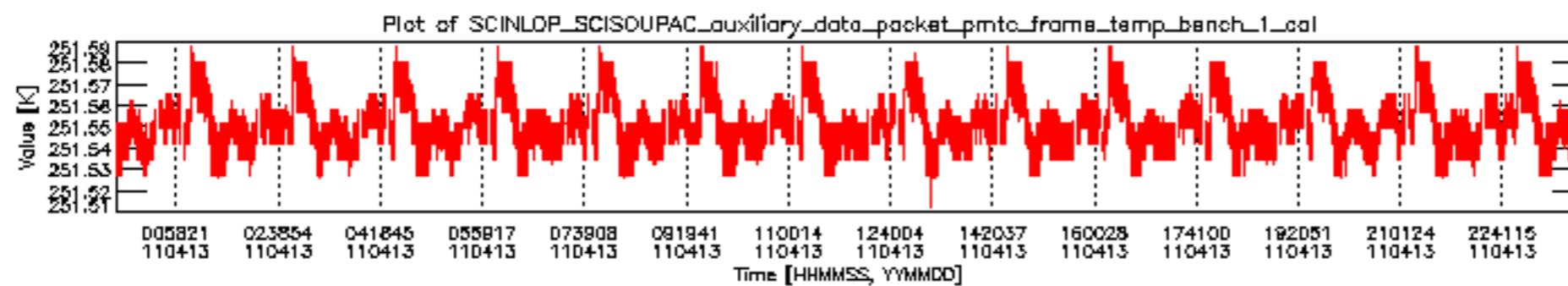
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20110412_102415_20110411_185417_20110421_210806
2	AUX_FPO_AXVPDS20110413_102114_20110412_195747_20110422_203122



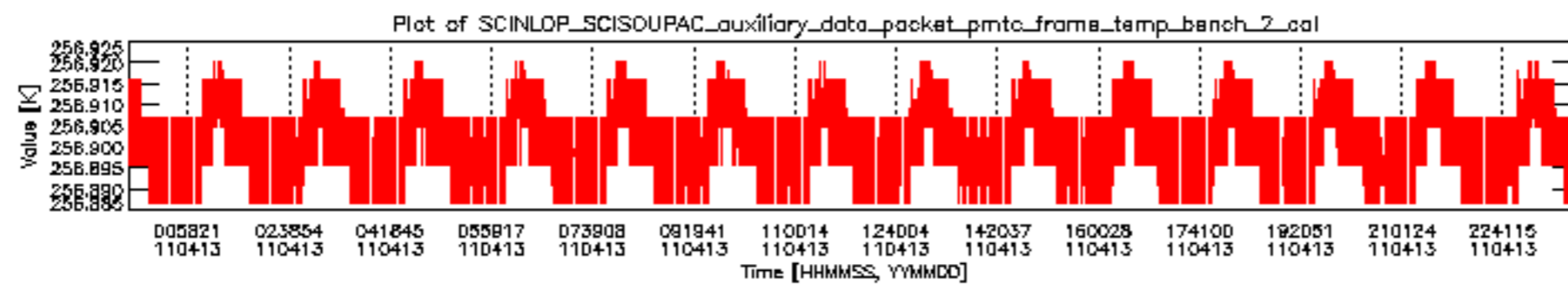
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110413\_7.PNG

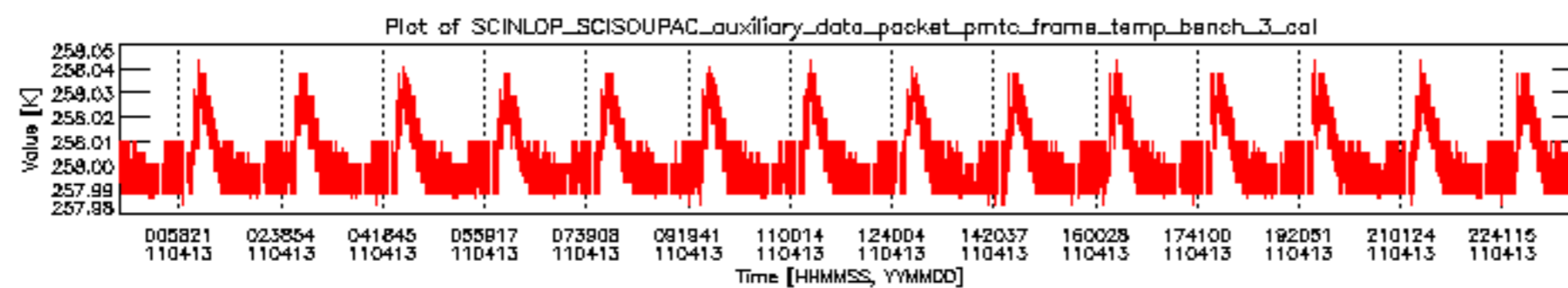


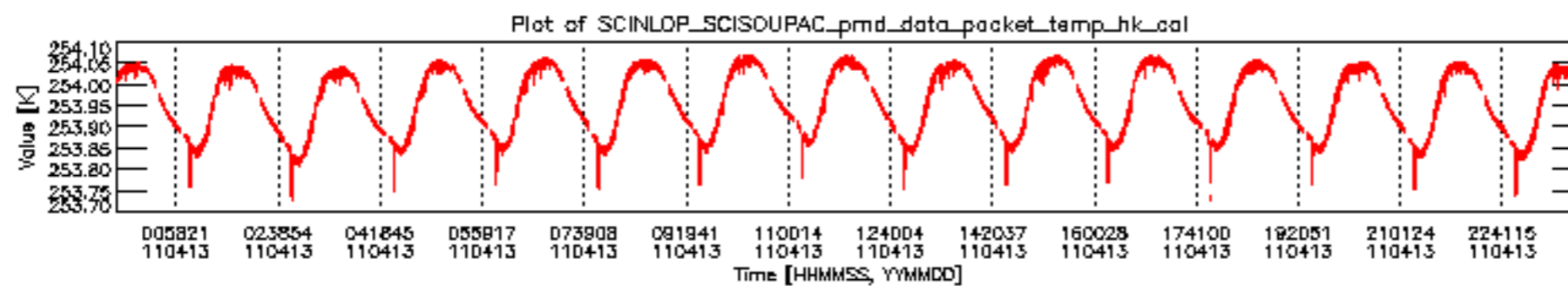
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110413\_8.PNG

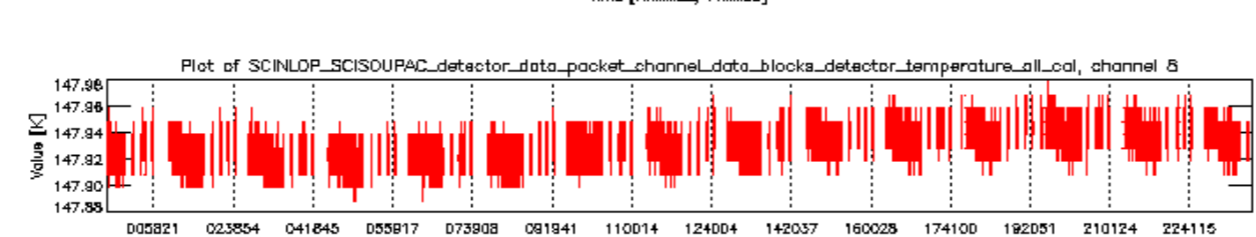
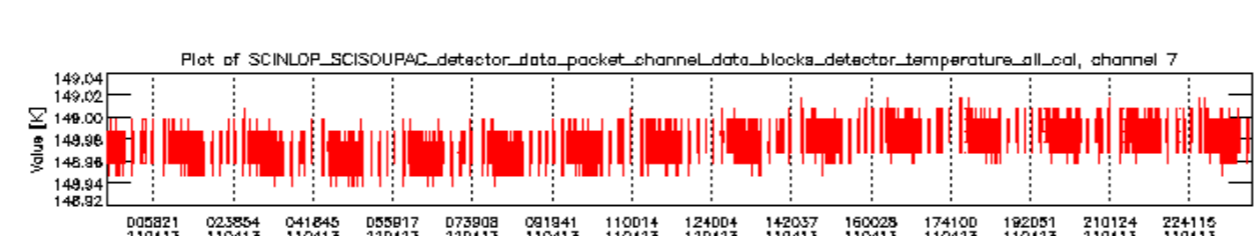
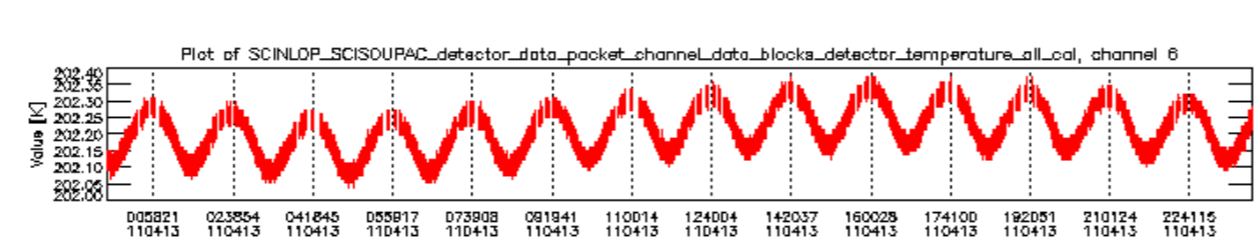
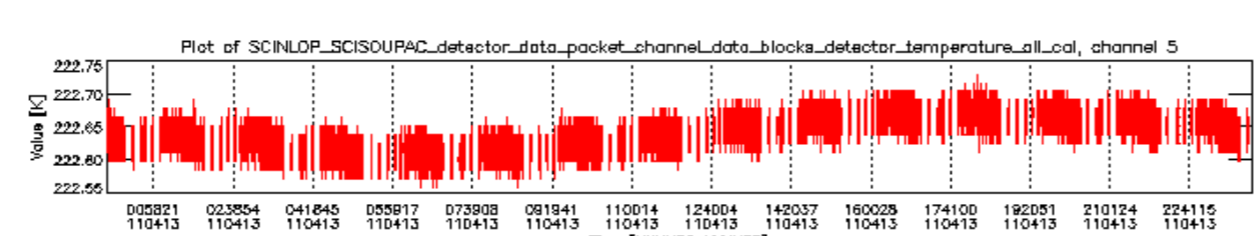
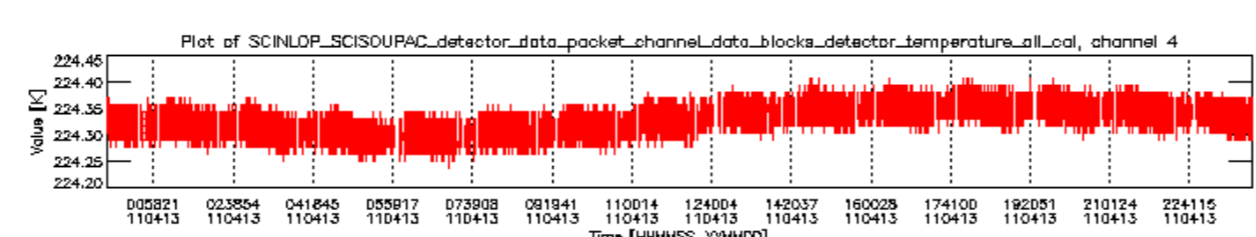
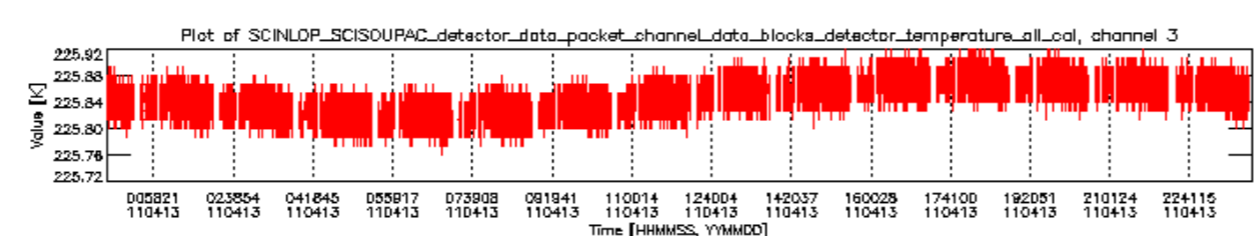
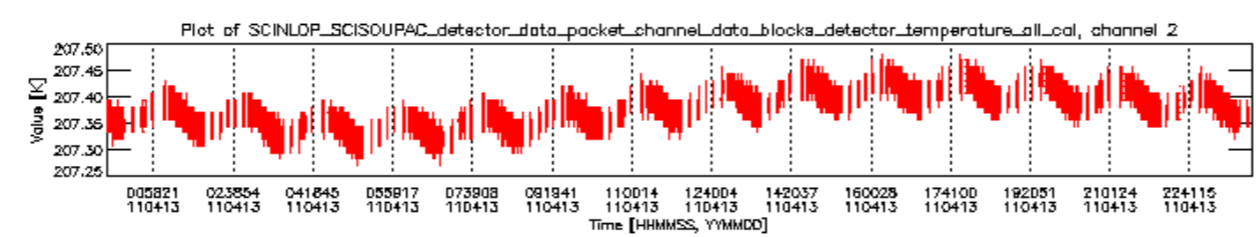
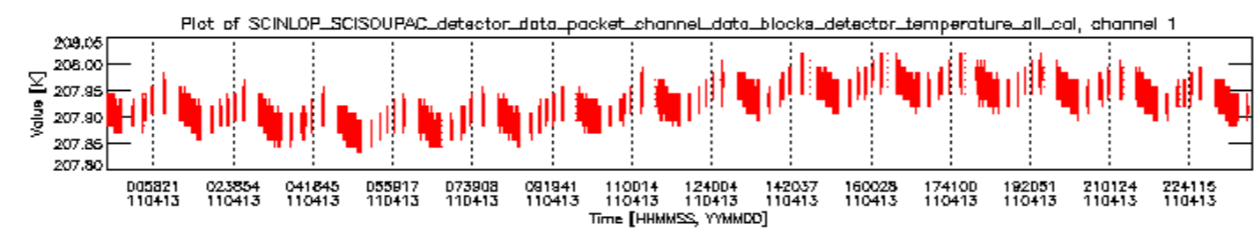




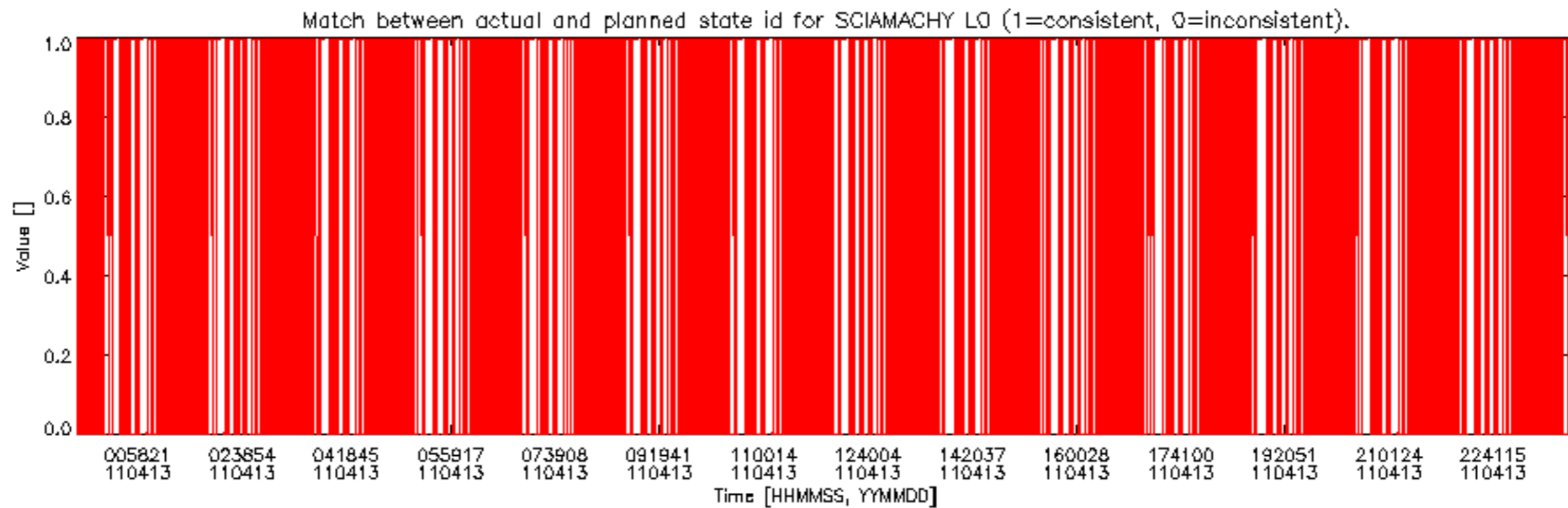
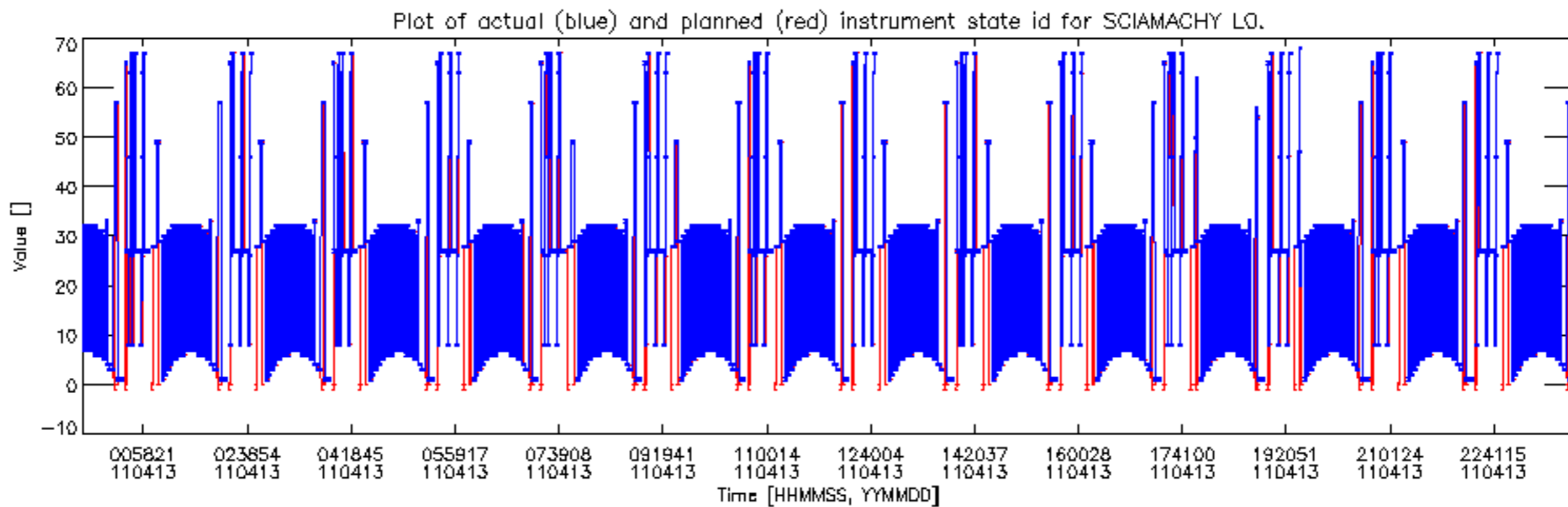












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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