

## 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	16JUN2008 05:20:44
Data source version	KSPT_L0/4303-N
Processing scope for products	12JUN2008 00:00:00 to 13JUN2008 00:00:00
Start time of first product within scope	11JUN2008 23:23:42
Stop time of last product within scope	13JUN2008 00:33:55
Total number of level 0 products	18
Number of level 0 products with errors	7

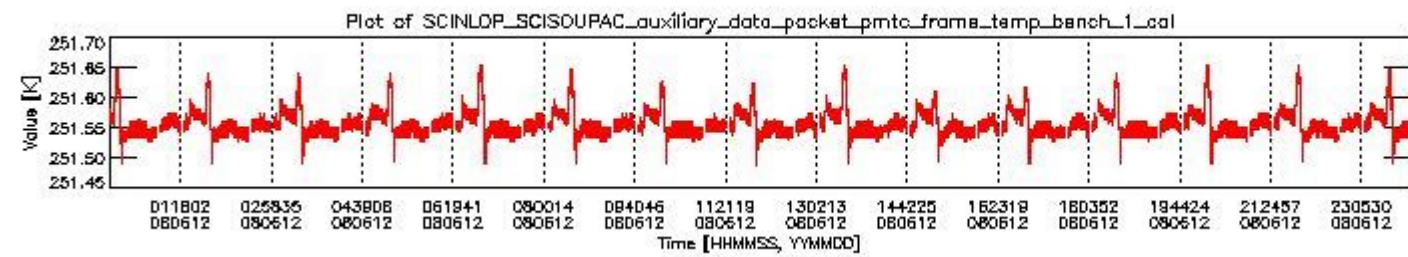
### 0.1.2 Summary per product

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

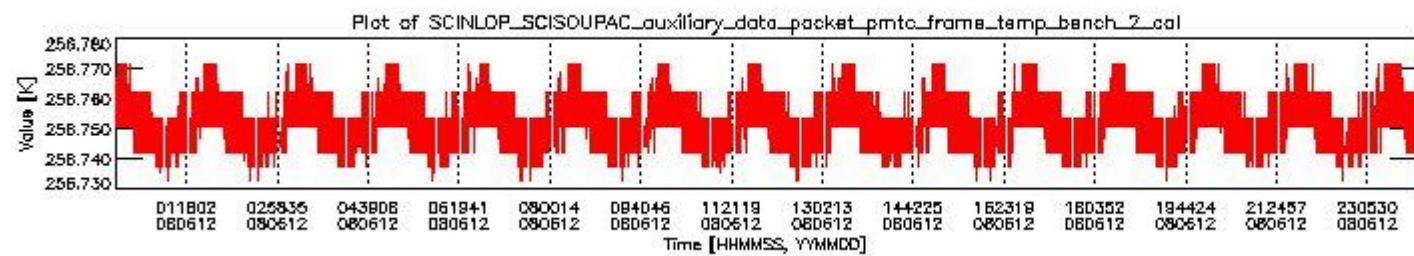
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080611_232342_000062002069_00230_32849_6950.N1	11JUN2008 23:23:42	12JUN2008 01:07:01	0	0	0	0	0
1	SCI_NL__OPNPDE20080612_010617_000045342069_00231_32850_6951.N1	12JUN2008 01:06:17	12JUN2008 02:21:51	0	0	0	0	0
2	SCI_NL__OPNPDE20080612_022042_000059112069_00232_32851_6952.N1	12JUN2008 02:20:42	12JUN2008 03:59:14	0	0	0	0	0
3	SCI_NL__OPNPDE20080612_035818_000061482069_00233_32852_6953.N1	12JUN2008 03:58:18	12JUN2008 05:40:46	0	0	0	0	0
4	SCI_NL__OPNPDE20080612_053950_000060362069_00234_32853_6954.N1	12JUN2008 05:39:50	12JUN2008 07:20:26	0	0	0	0	0
5	SCI_NL__OPNPDK20080612_064715_000004422069_00235_32854_8482.N1	12JUN2008 06:47:15	12JUN2008 06:54:37	1	1	0	0	0
6	SCI_NL__OPNPDK20080612_072026_000040452069_00235_32854_8483.N1	12JUN2008 07:20:26	12JUN2008 08:27:51	1	1	1	0	0
7	SCI_NL__OPNPDK20080612_073300_000032912069_00235_32854_8478.N1	12JUN2008 07:33:00	12JUN2008 08:27:51	1	1	0	0	0
8	SCI_NL__OPNPDK20080612_082751_000061042069_00236_32855_8479.N1	12JUN2008 08:27:51	12JUN2008 10:09:35	1	1	0	0	0
9	SCI_NL__OPNPDK20080612_100935_000059672069_00237_32856_8480.N1	12JUN2008 10:09:35	12JUN2008 11:49:02	0	0	0	0	0
10	SCI_NL__OPNPDK20080612_114754_000060482069_00238_32857_8481.N1	12JUN2008 11:47:54	12JUN2008 13:28:42	1	1	0	0	0
11	SCI_NL__OPNPDK20080612_132733_000059672069_00239_32858_8484.N1	12JUN2008 13:27:33	12JUN2008 15:07:01	0	0	0	0	0
12	SCI_NL__OPNPDK20080612_150605_000059112069_00240_32859_8485.N1	12JUN2008 15:06:05	12JUN2008 16:44:36	0	0	0	0	0
13	SCI_NL__OPNPDK20080612_164340_000059412069_00241_32860_8487.N1	12JUN2008 16:43:40	12JUN2008 18:22:42	1	0	1	0	0
14	SCI_NL__OPNPDK20080612_182146_000059532069_00242_32861_8488.N1	12JUN2008 18:21:46	12JUN2008 20:00:58	1	1	0	0	0
15	SCI_NL__OPNPDE20080612_195854_000041042069_00243_32862_6955.N1	12JUN2008 19:58:54	12JUN2008 21:07:18	0	0	0	0	0
16	SCI_NL__OPNPDE20080612_210631_000064642069_00243_32862_6956.N1	12JUN2008 21:06:31	12JUN2008 22:54:15	0	0	0	0	0
17	SCI_NL__OPNPDE20080612_225332_000060232069_00244_32863_6957.N1	12JUN2008 22:53:32	13JUN2008 00:33:55	0	0	0	0	0

## 0.2 Product Quality Indicators

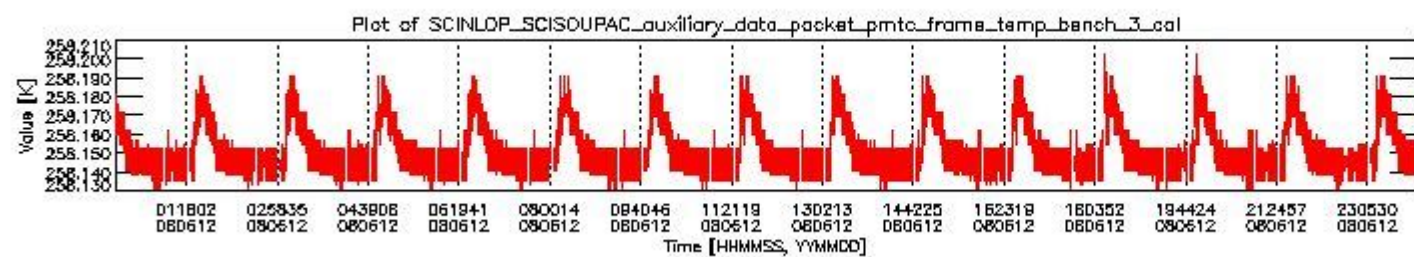
This section shows information about product quality, currently temperatures.



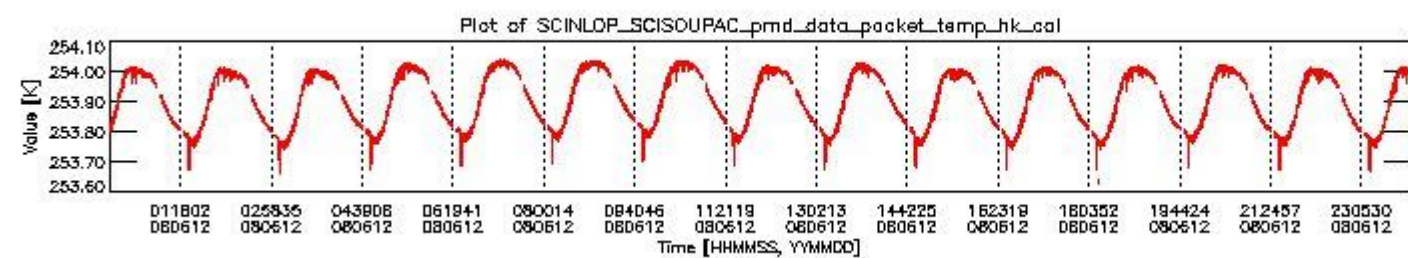
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080612\_0.PNG



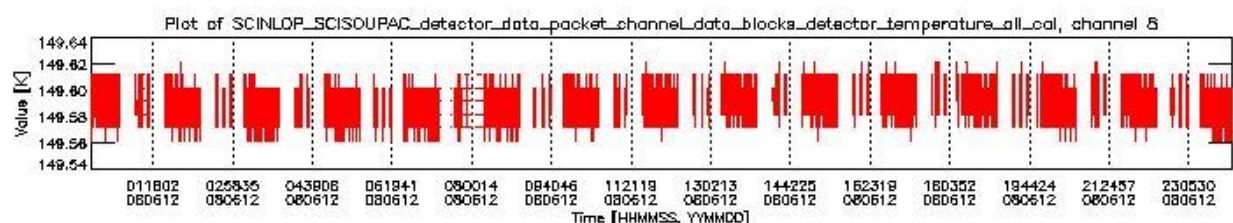
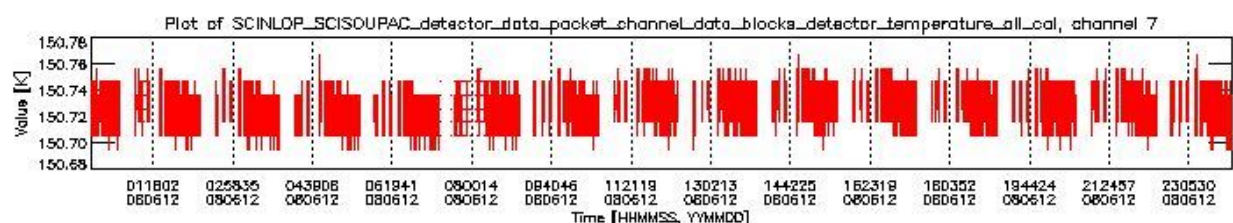
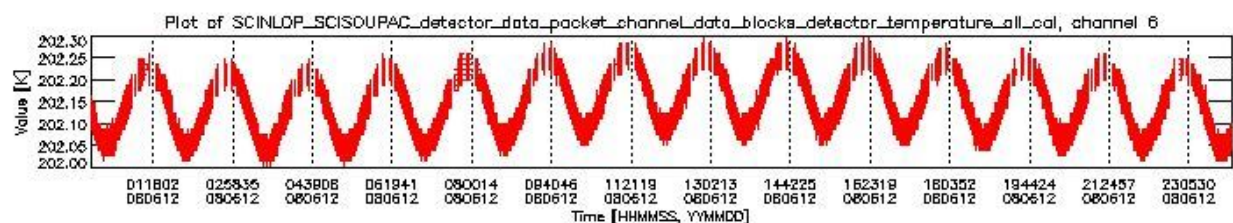
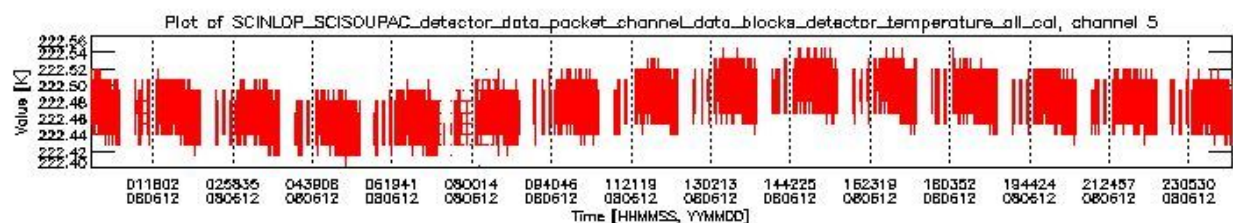
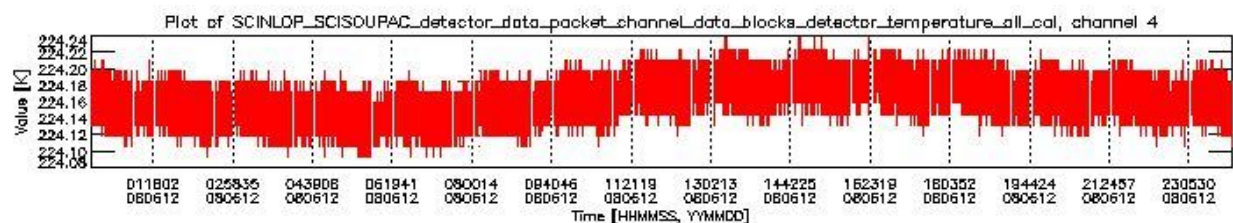
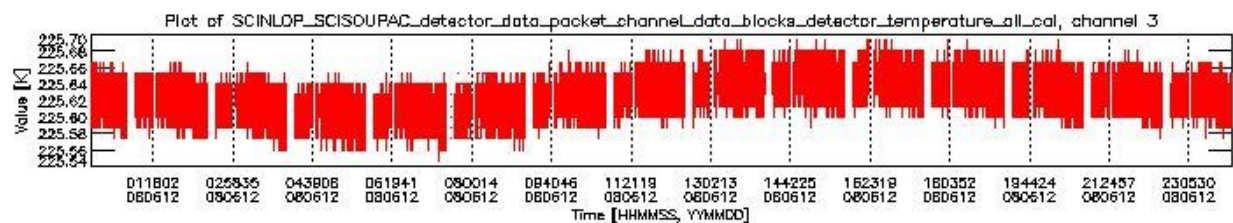
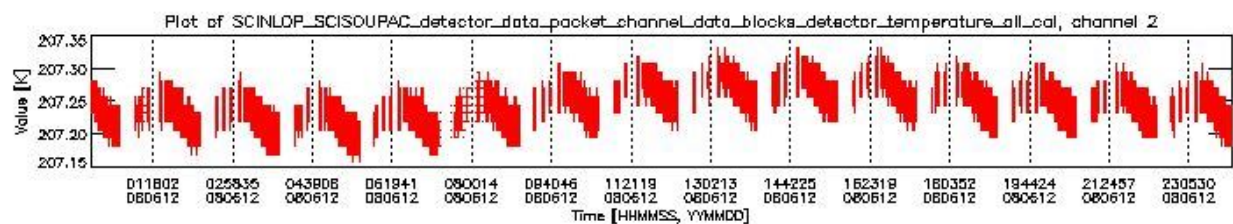
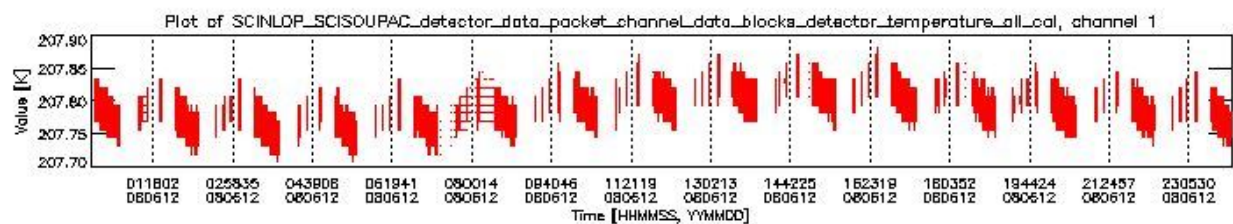
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sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080612\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080612\_3.PNG

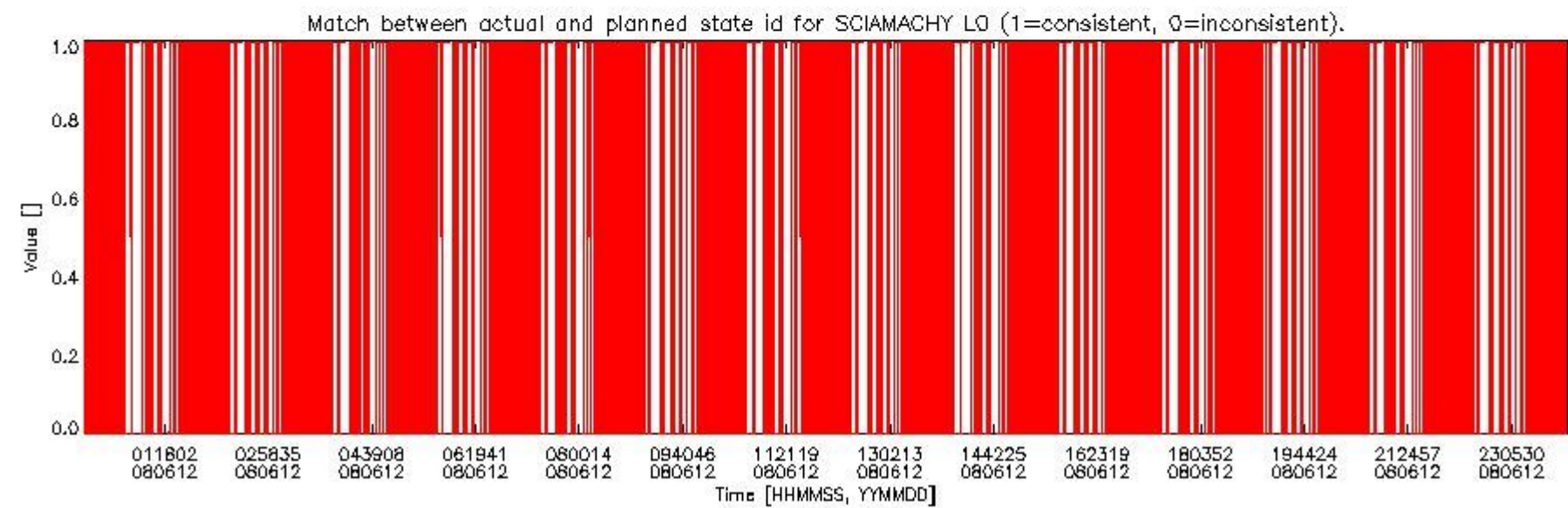
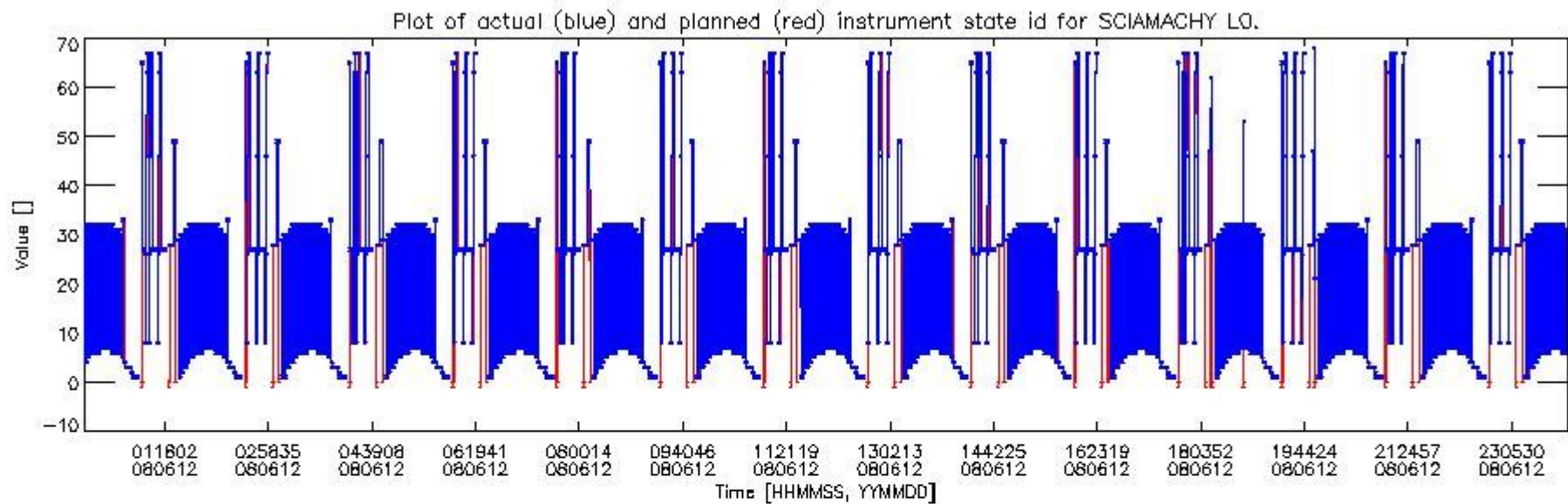


### 0.3 State monitoring

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: **33759**

#	Actual time	Actual value	Planned time	Planned value
0	12JUN2008 00:00:42.973897	4	12JUN2008 00:00:42.973897	32
1	12JUN2008 00:00:43.223906	4	12JUN2008 00:00:43.223906	32
2	12JUN2008 00:00:43.348910	4	12JUN2008 00:00:43.348910	32
3	12JUN2008 00:00:43.473914	4	12JUN2008 00:00:43.473914	32
4	12JUN2008 00:00:43.598878	4	12JUN2008 00:00:43.598878	32
5	12JUN2008 00:00:43.723883	4	12JUN2008 00:00:43.723883	32
6	12JUN2008 00:00:43.848887	4	12JUN2008 00:00:43.848887	32
7	12JUN2008 00:00:43.973891	4	12JUN2008 00:00:43.973891	32
8	12JUN2008 00:00:44.098896	4	12JUN2008 00:00:44.098896	32
9	12JUN2008 00:00:44.223900	4	12JUN2008 00:00:44.223900	32
10	12JUN2008 00:00:44.348904	4	12JUN2008 00:00:44.348904	32
11	12JUN2008 00:00:44.473909	4	12JUN2008 00:00:44.473909	32
12	12JUN2008 00:00:44.598913	4	12JUN2008 00:00:44.598913	32
13	12JUN2008 00:00:44.723877	4	12JUN2008 00:00:44.723877	32
14	12JUN2008 00:00:44.848882	4	12JUN2008 00:00:44.848882	32
15	12JUN2008 00:00:44.973886	4	12JUN2008 00:00:44.973886	32
16	12JUN2008 00:00:45.098890	4	12JUN2008 00:00:45.098890	32
17	12JUN2008 00:00:45.223895	4	12JUN2008 00:00:45.223895	32
18	12JUN2008 00:00:45.348899	4	12JUN2008 00:00:45.348899	32
19	12JUN2008 00:00:45.473903	4	12JUN2008 00:00:45.473903	32
...	...	...	...	...

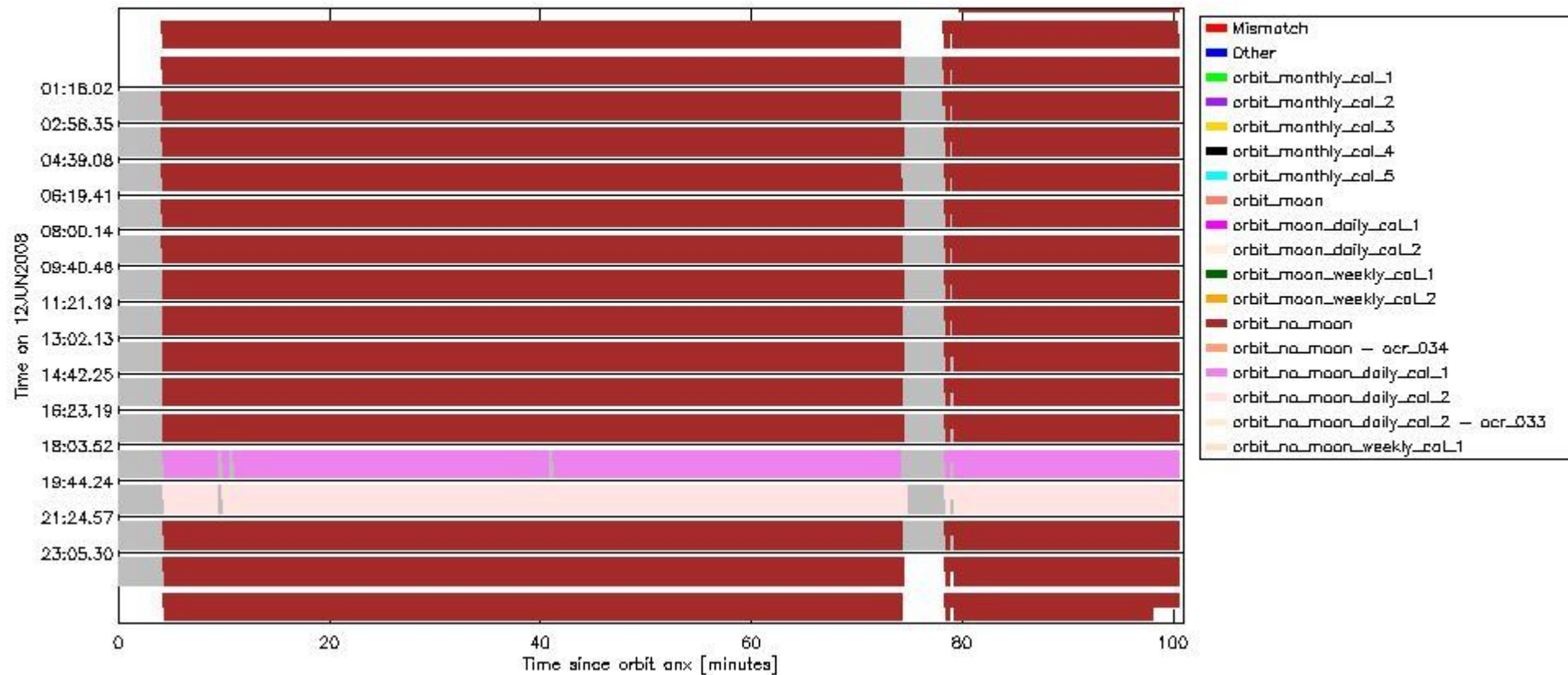


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080612\_5.PNG

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 12JUN2008.  
 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\_20080612\_6.PNG

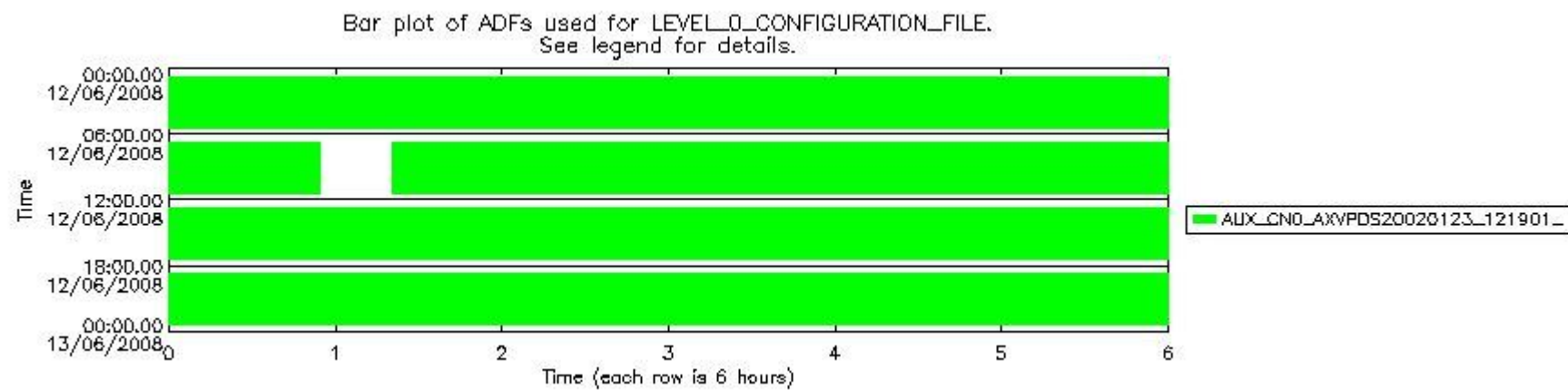
## 0.4 ADF monitoring

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

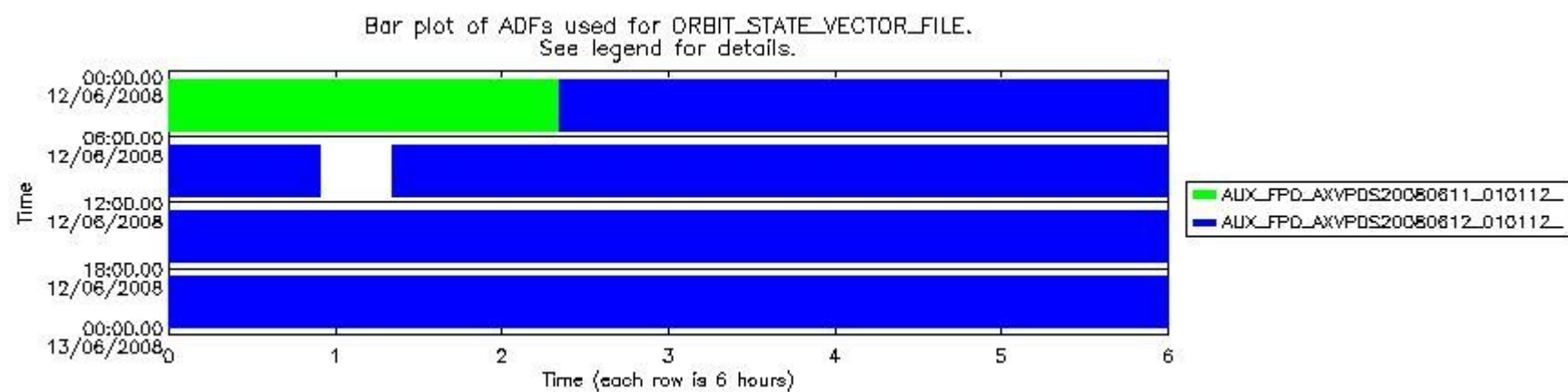
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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	<b>AUX_FPO_AXVPDS20080611_010112_20080610_190704_20080620_203318</b>
2	<b>AUX_FPO_AXVPDS20080612_010112_20080611_183527_20080621_200141</b>



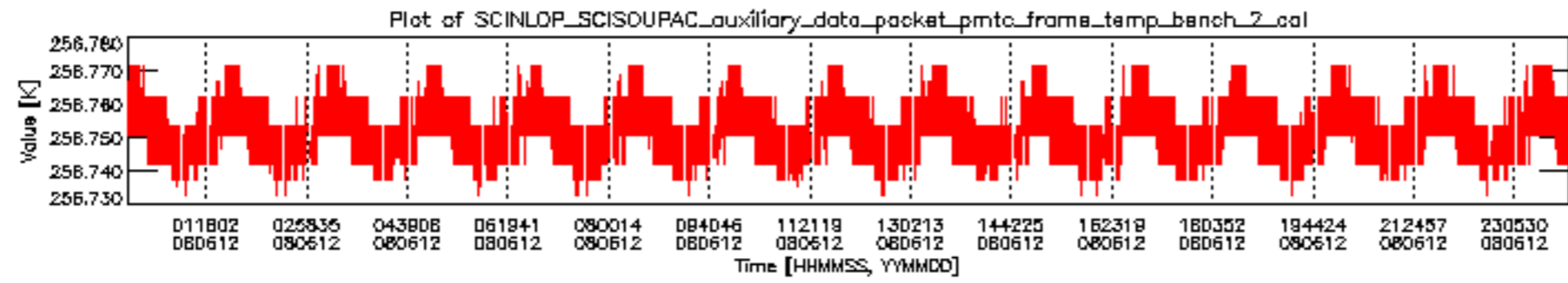
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080612\_7.PNG

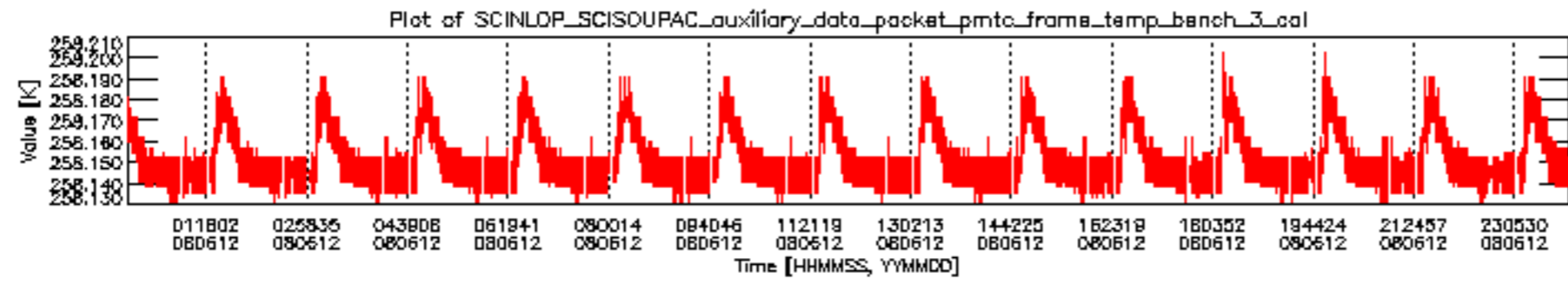


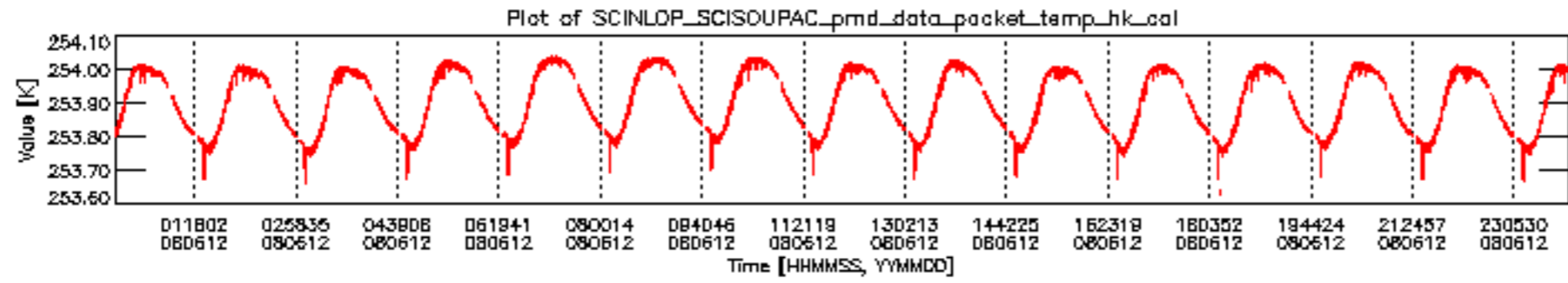
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080612\_8.PNG

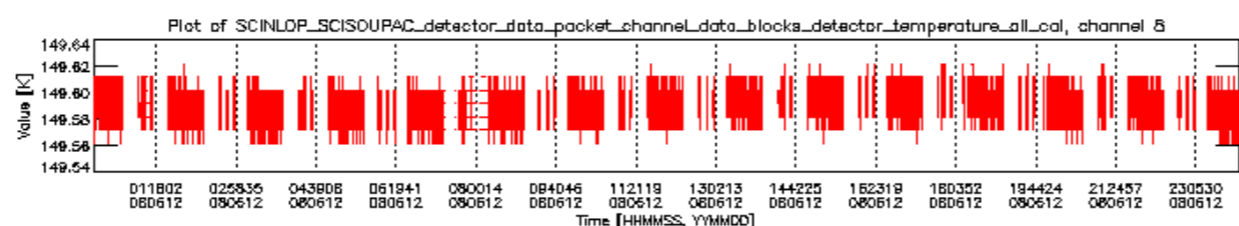
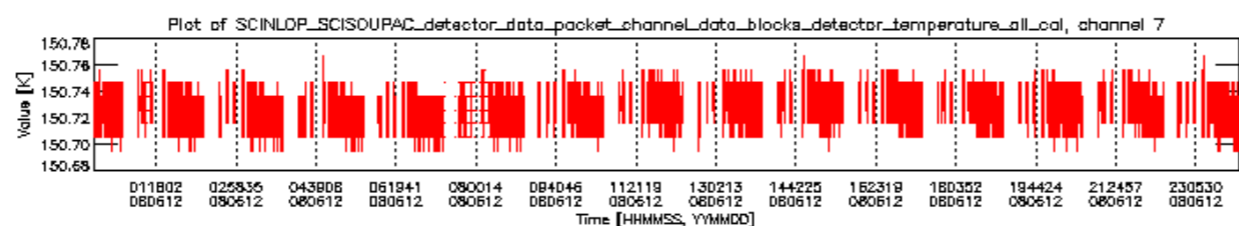
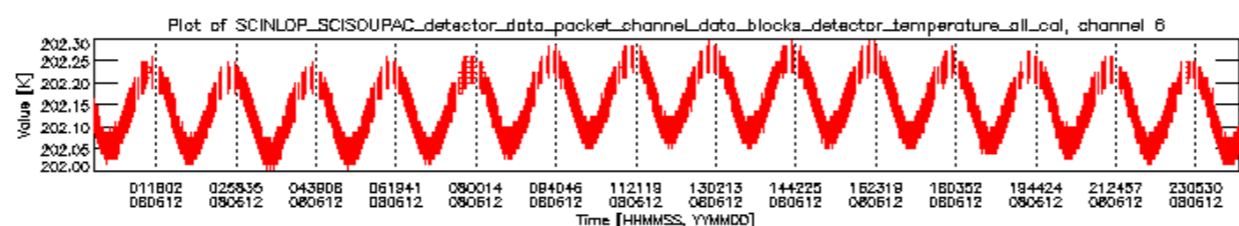
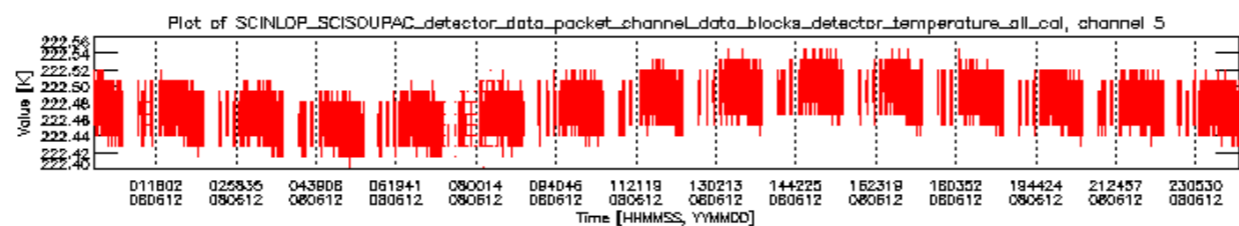
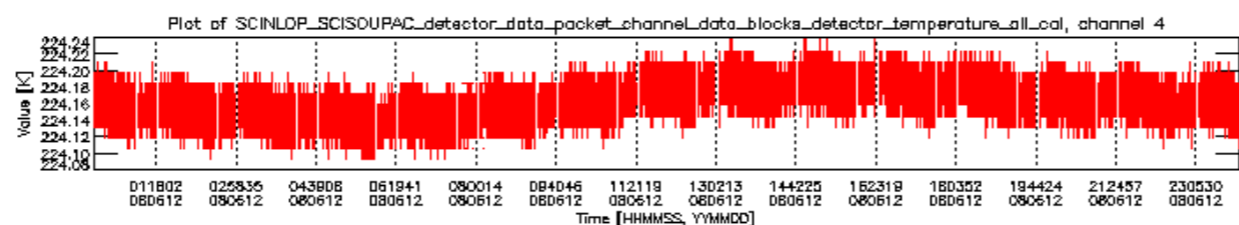
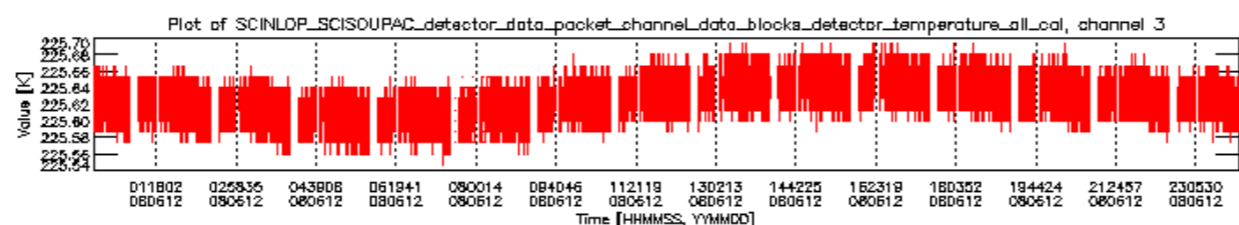
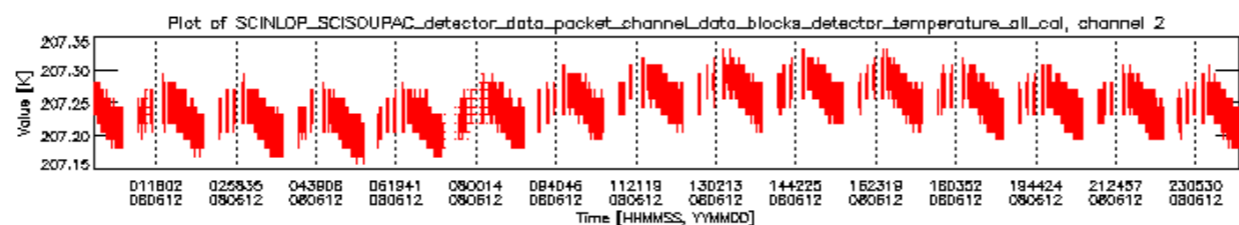
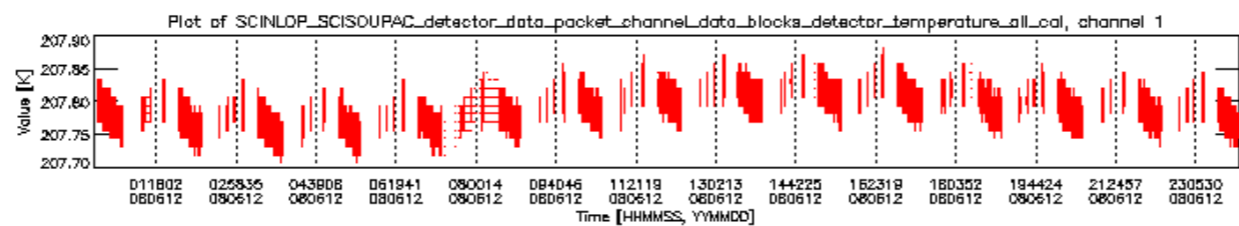


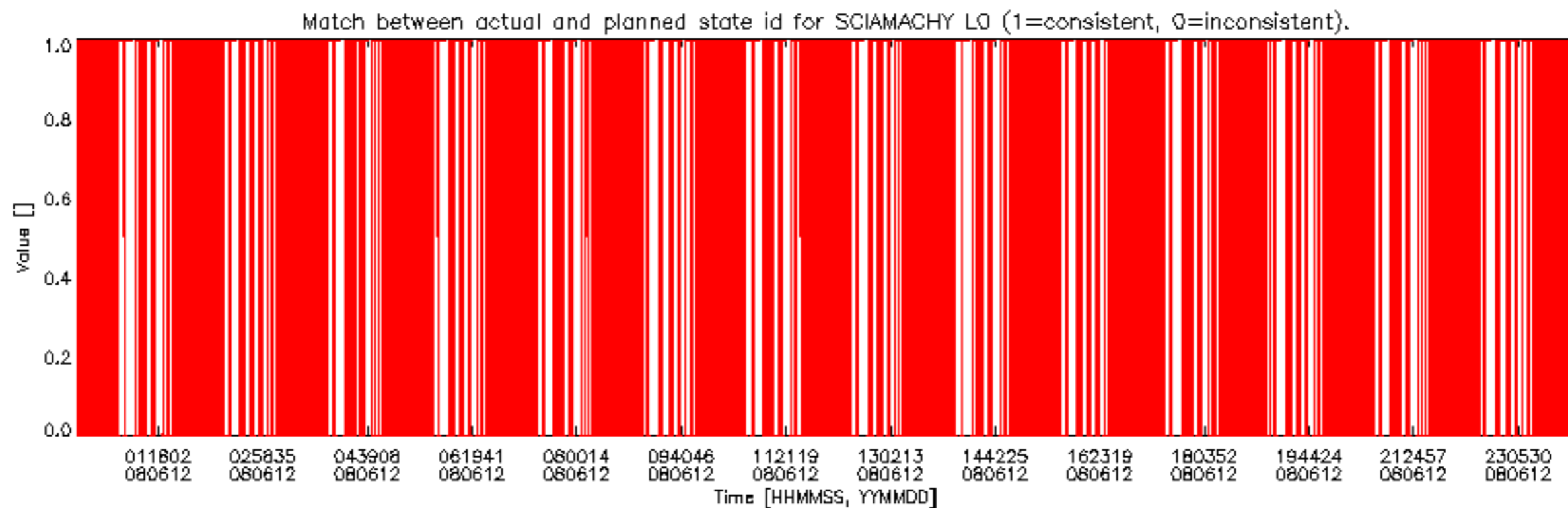
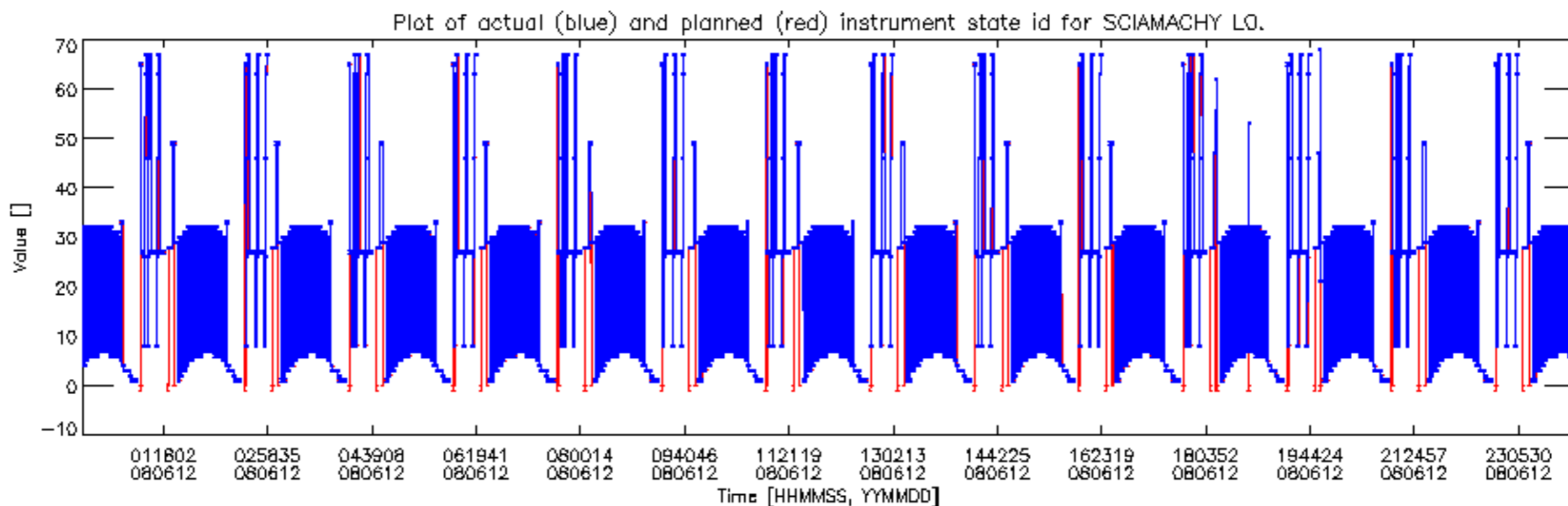












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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