

## 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	23MAR2009 21:44:17
Data source version	KSPT_L0/4303-N
Processing scope for products	19MAR2009 00:00:00 to 20MAR2009 00:00:00
Start time of first product within scope	18MAR2009 23:25:10
Stop time of last product within scope	20MAR2009 00:35:59
Total number of level 0 products	19
Number of level 0 products with errors	5

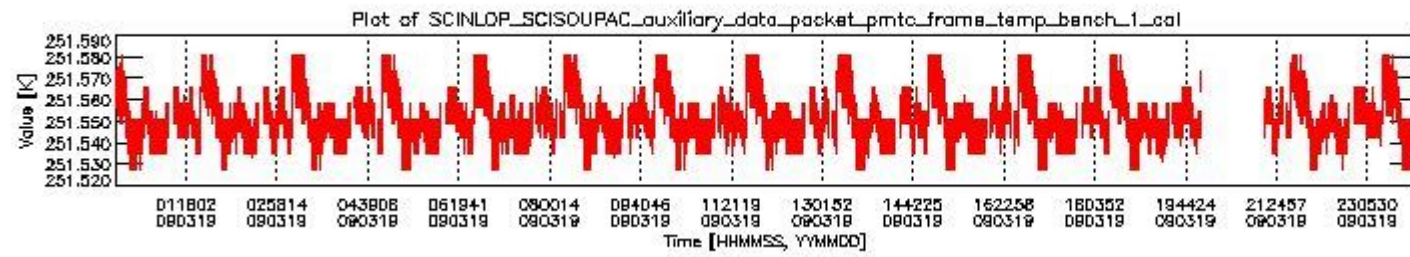
### 0.1.2 Summary per product

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

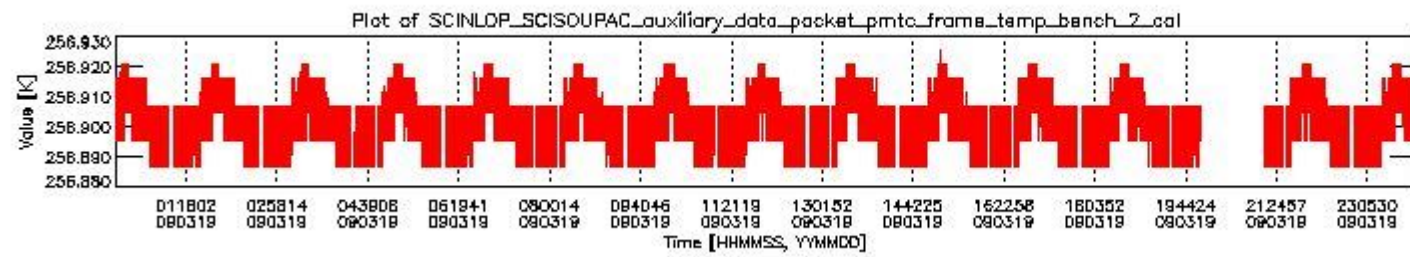
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090318_232510_000059892077_00230_36857_8698.N1	18MAR2009 23:25:10	19MAR2009 01:04:59	0	0	0	0	0
1	SCI_NL__OPNPDE20090319_010415_000048932077_00231_36858_8699.N1	19MAR2009 01:04:15	19MAR2009 02:25:48	0	0	0	0	0
2	SCI_NL__OPNPDE20090319_022548_000054822077_00232_36859_8700.N1	19MAR2009 02:25:48	19MAR2009 03:57:10	0	0	0	0	0
3	SCI_NL__OPNPDE20090319_035710_000061602077_00233_36860_8701.N1	19MAR2009 03:57:10	19MAR2009 05:39:50	0	0	0	0	0
4	SCI_NL__OPNPDE20090319_053950_000061042077_00234_36861_8702.N1	19MAR2009 05:39:50	19MAR2009 07:21:34	0	0	0	0	0
5	SCI_NL__OPNPDK20090319_072134_000039762077_00235_36862_0999.N1	19MAR2009 07:21:34	19MAR2009 08:27:50	0	0	0	0	0
6	SCI_NL__OPNPDK20090319_082642_000061732077_00236_36863_1000.N1	19MAR2009 08:26:42	19MAR2009 10:09:34	0	0	0	0	0
7	SCI_NL__OPNPDK20090319_100934_000059672077_00237_36864_1001.N1	19MAR2009 10:09:34	19MAR2009 11:49:01	0	0	0	0	0
8	SCI_NL__OPNPDK20090319_114753_000059242077_00238_36865_1002.N1	19MAR2009 11:47:53	19MAR2009 13:26:36	0	0	0	0	0
9	SCI_NL__OPNPDK20090319_132528_000059112077_00239_36866_1003.N1	19MAR2009 13:25:28	19MAR2009 15:03:59	0	0	0	0	0
10	SCI_NL__OPNPDK20090319_150250_000060482077_00240_36867_1004.N1	19MAR2009 15:02:50	19MAR2009 16:43:38	0	0	0	0	0
11	SCI_NL__OPNPDK20090319_164134_000060042077_00241_36868_1005.N1	19MAR2009 16:41:34	19MAR2009 18:21:38	1	0	1	0	0
12	SCI_NL__OPNPDK20090319_182042_000059952077_00242_36869_1006.N1	19MAR2009 18:20:42	19MAR2009 20:00:37	0	0	0	0	0
13	SCI_NL__OPNPDE20090319_195835_000000002077_00243_36870_8711.N1	19MAR2009 19:58:35	19MAR2009 19:58:35	1	1	0	0	0
14	SCI_NL__OPNPDE20090319_195958_000000002077_00243_36870_8723.N1	19MAR2009 19:59:58	19MAR2009 19:59:58	1	1	0	0	0
15	SCI_NL__OPNPDE20090319_200405_000000002077_00243_36870_8765.N1	19MAR2009 20:04:05	19MAR2009 20:04:05	1	1	0	0	0
16	SCI_NL__OPNPDE20090319_200609_000000002077_00243_36870_8777.N1	19MAR2009 20:06:09	19MAR2009 20:06:09	1	1	0	0	0
17	SCI_NL__OPNPDE20090319_211035_000062032077_00243_36870_8779.N1	19MAR2009 21:10:35	19MAR2009 22:53:59	0	0	0	0	0
18	SCI_NL__OPNPDE20090319_225359_000061202077_00244_36871_8780.N1	19MAR2009 22:53:59	20MAR2009 00:35:59	0	0	0	0	0

## 0.2 Product Quality Indicators

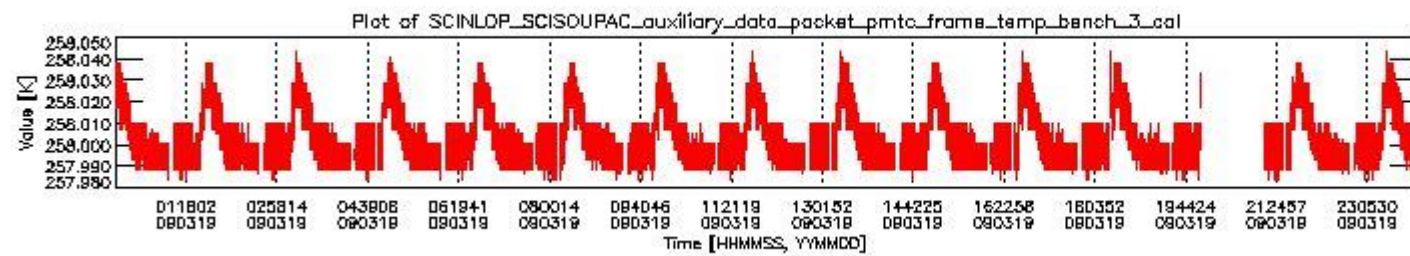
This section shows information about product quality, currently temperatures.



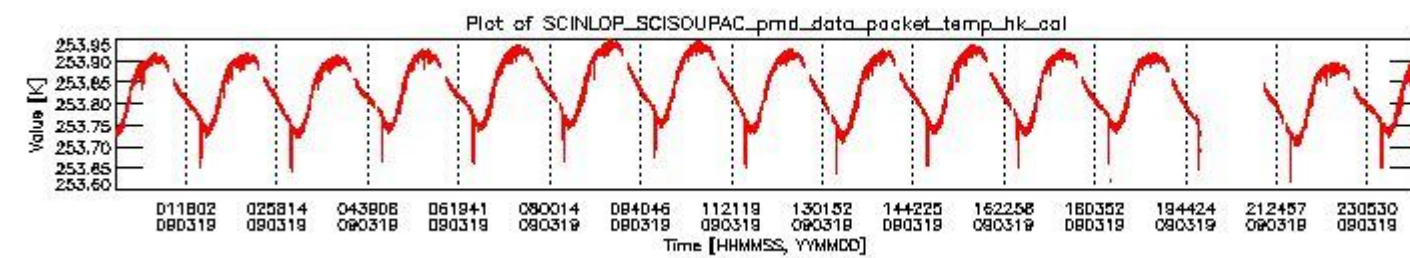
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090319\_0.PNG



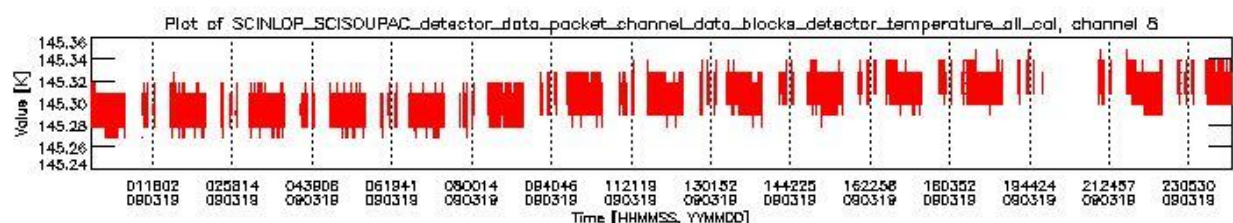
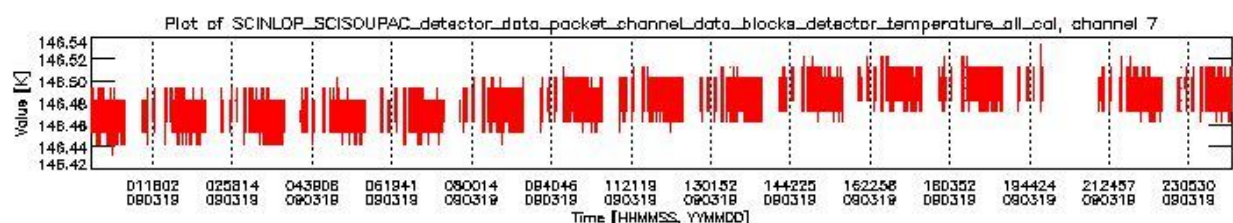
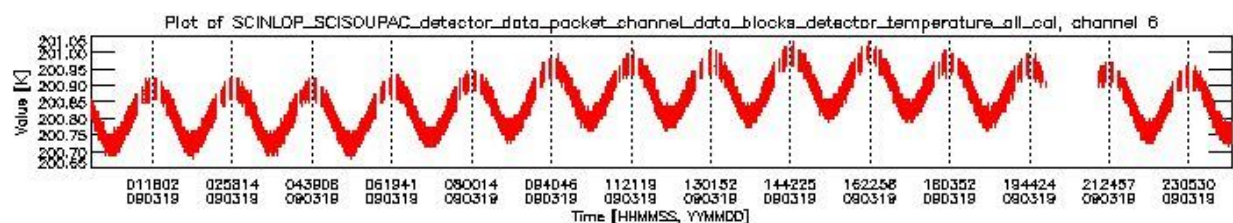
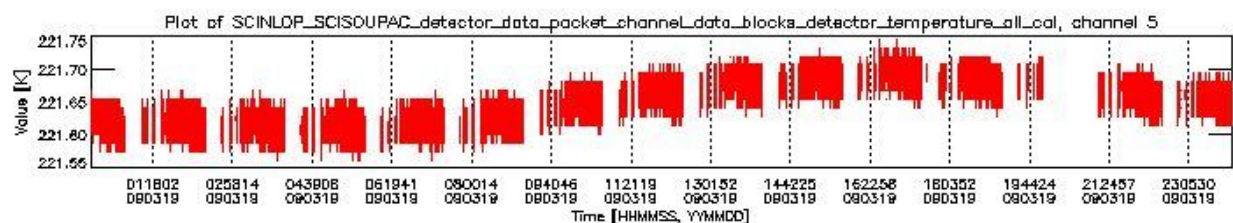
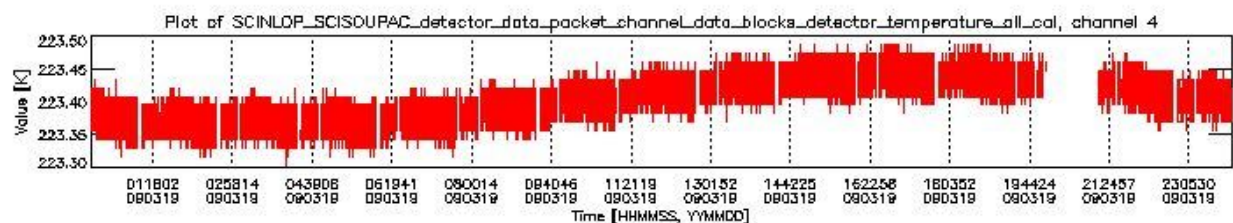
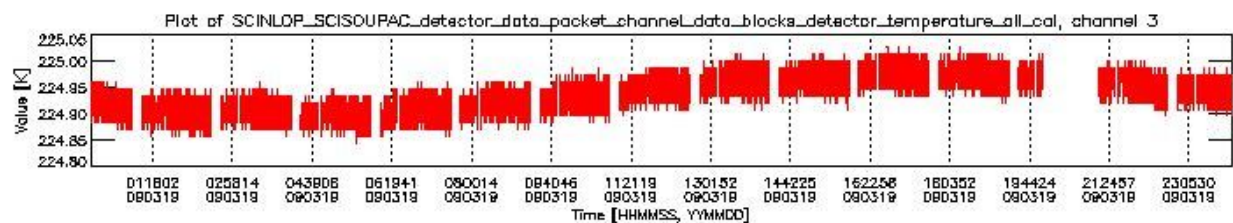
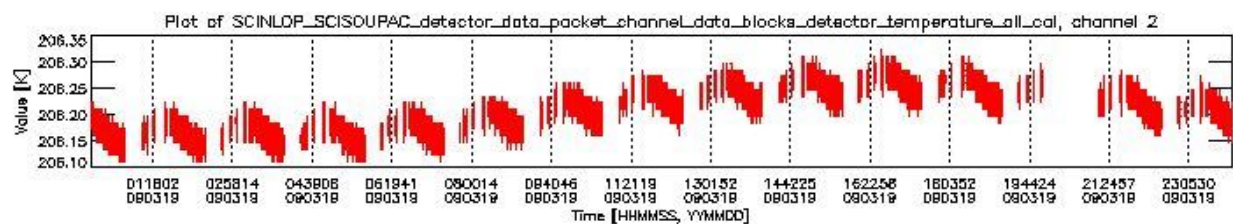
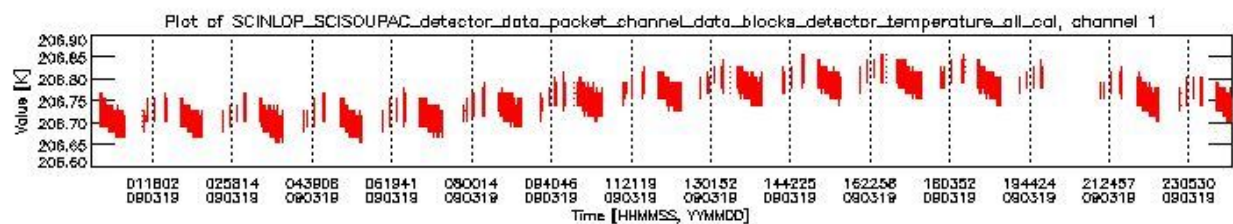
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090319\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090319\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090319\_3.PNG

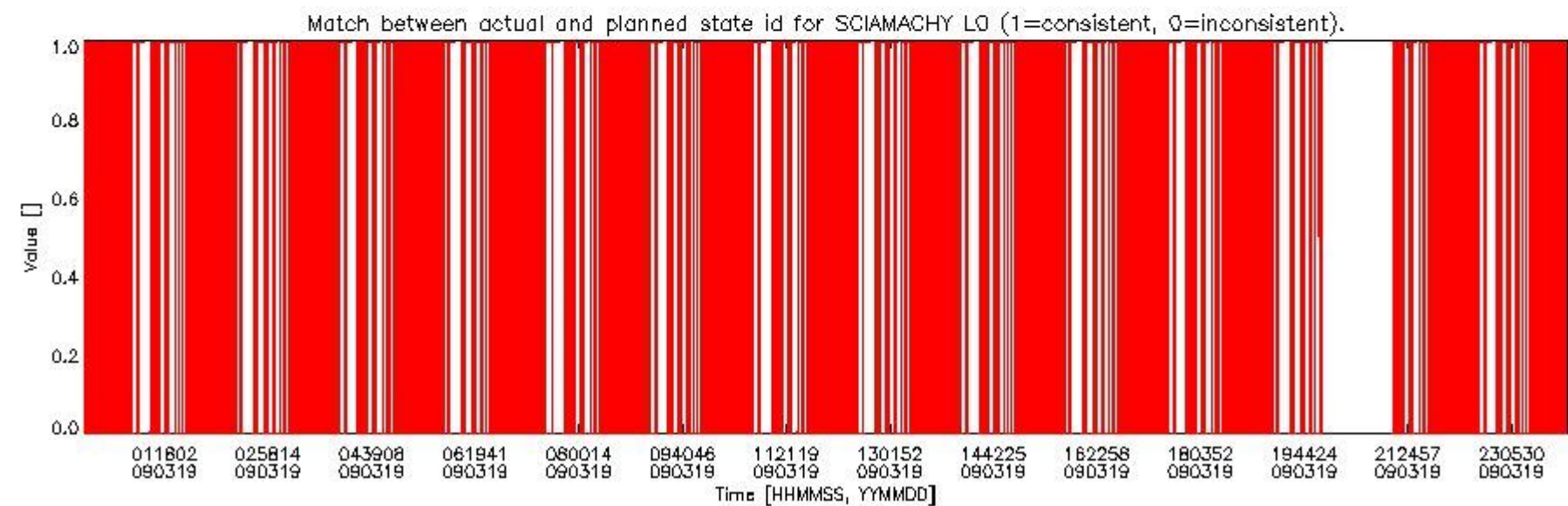
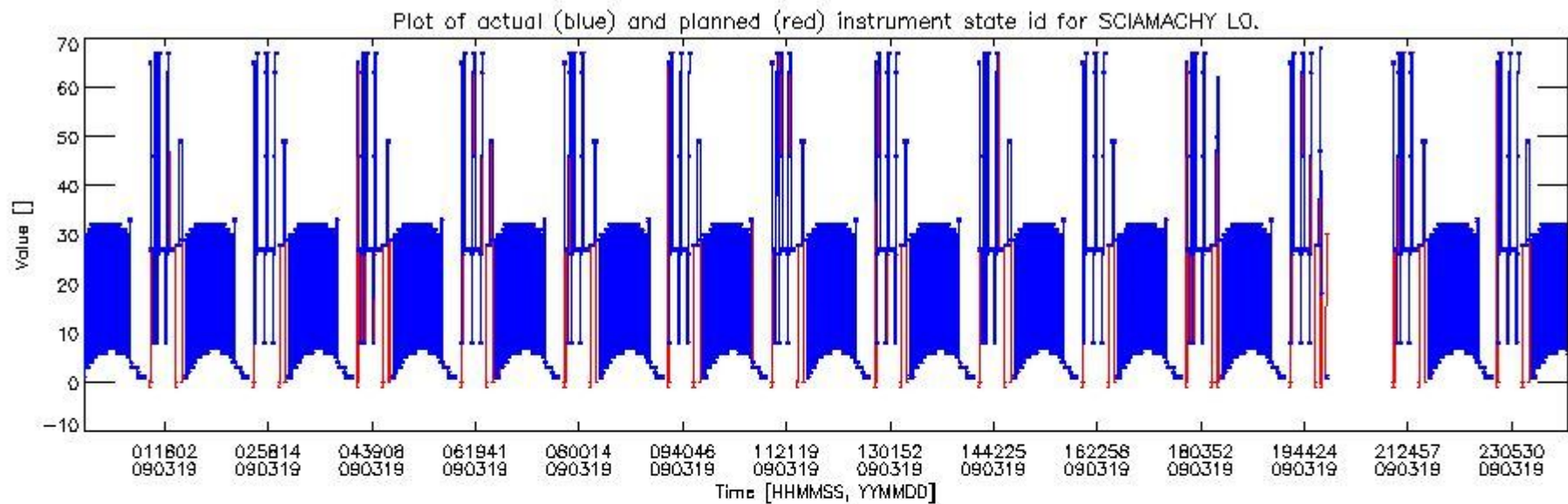


### 0.3 State monitoring

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: **47271**

#	Actual time	Actual value	Planned time	Planned value
0	19MAR2009 00:00:44.486301	3	19MAR2009 00:00:44.486301	30
1	19MAR2009 00:00:44.736269	3	19MAR2009 00:00:44.736269	30
2	19MAR2009 00:00:44.861273	3	19MAR2009 00:00:44.861273	30
3	19MAR2009 00:00:44.986278	3	19MAR2009 00:00:44.986278	30
4	19MAR2009 00:00:45.111282	3	19MAR2009 00:00:45.111282	30
5	19MAR2009 00:00:45.236287	3	19MAR2009 00:00:45.236287	30
6	19MAR2009 00:00:45.361291	3	19MAR2009 00:00:45.361291	30
7	19MAR2009 00:00:45.486295	3	19MAR2009 00:00:45.486295	30
8	19MAR2009 00:00:45.611300	3	19MAR2009 00:00:45.611300	30
9	19MAR2009 00:00:45.736304	3	19MAR2009 00:00:45.736304	30
10	19MAR2009 00:00:45.861308	3	19MAR2009 00:00:45.861308	30
11	19MAR2009 00:00:45.986272	3	19MAR2009 00:00:45.986272	30
12	19MAR2009 00:00:46.111277	3	19MAR2009 00:00:46.111277	30
13	19MAR2009 00:00:46.236281	3	19MAR2009 00:00:46.236281	30
14	19MAR2009 00:00:46.361285	3	19MAR2009 00:00:46.361285	30
15	19MAR2009 00:00:46.486290	3	19MAR2009 00:00:46.486290	30
16	19MAR2009 00:00:46.611294	3	19MAR2009 00:00:46.611294	30
17	19MAR2009 00:00:46.736299	3	19MAR2009 00:00:46.736299	30
18	19MAR2009 00:00:46.861303	3	19MAR2009 00:00:46.861303	30
19	19MAR2009 00:00:46.986307	3	19MAR2009 00:00:46.986307	30
...	...	...	...	...

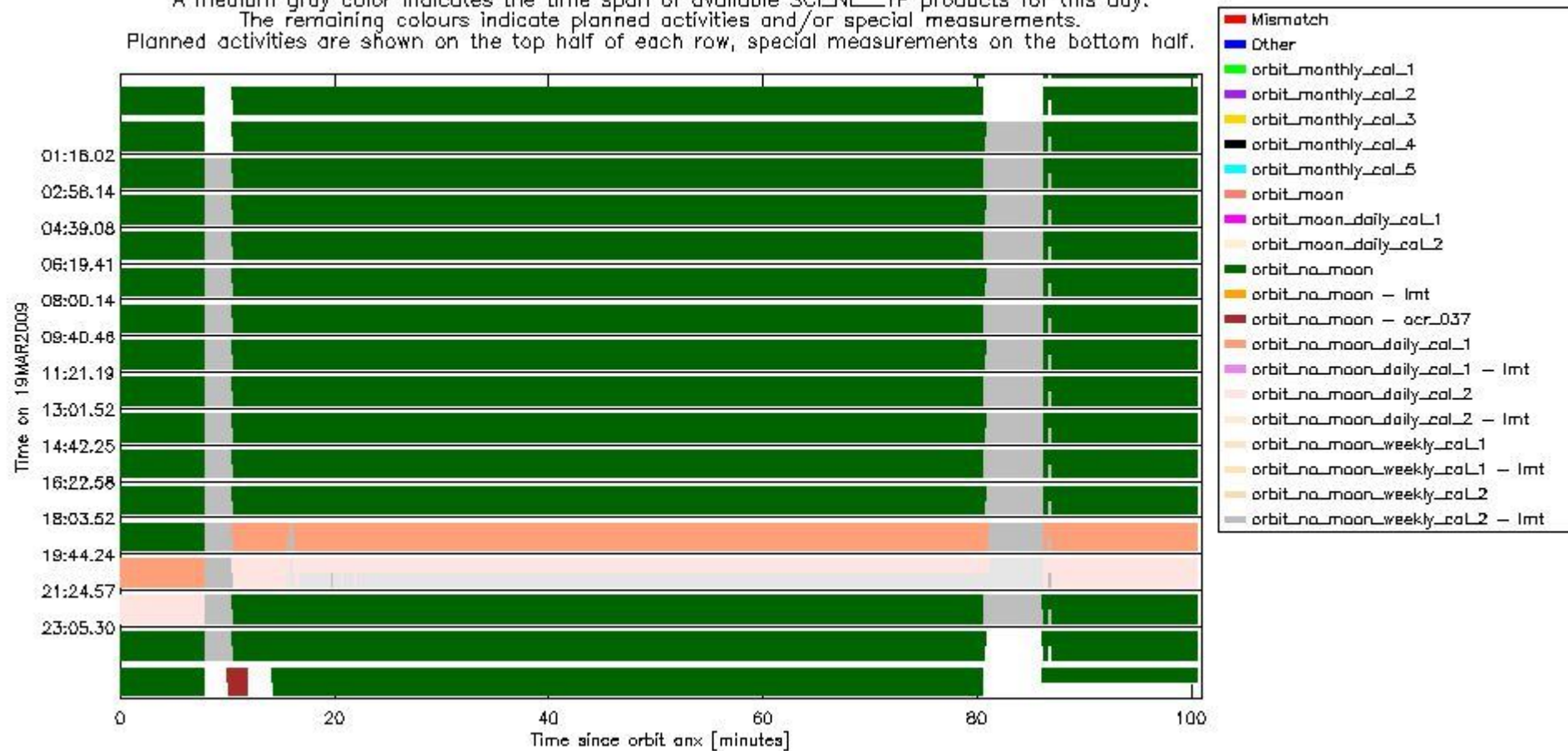


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090319\_5.PNG

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 19MAR2009.  
 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\_20090319\_6.PNG

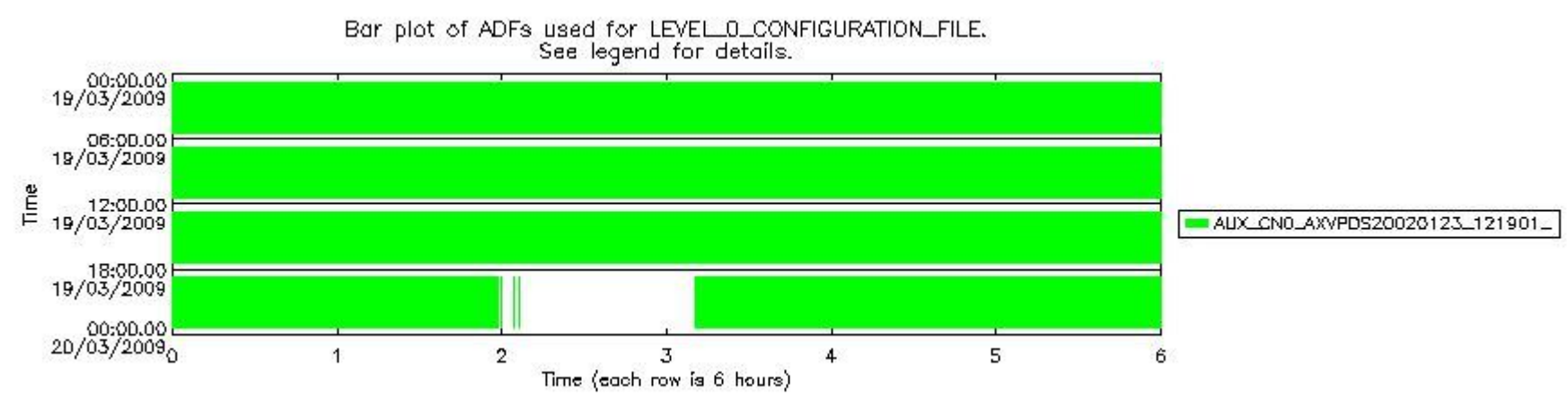
## 0.4 ADF monitoring

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

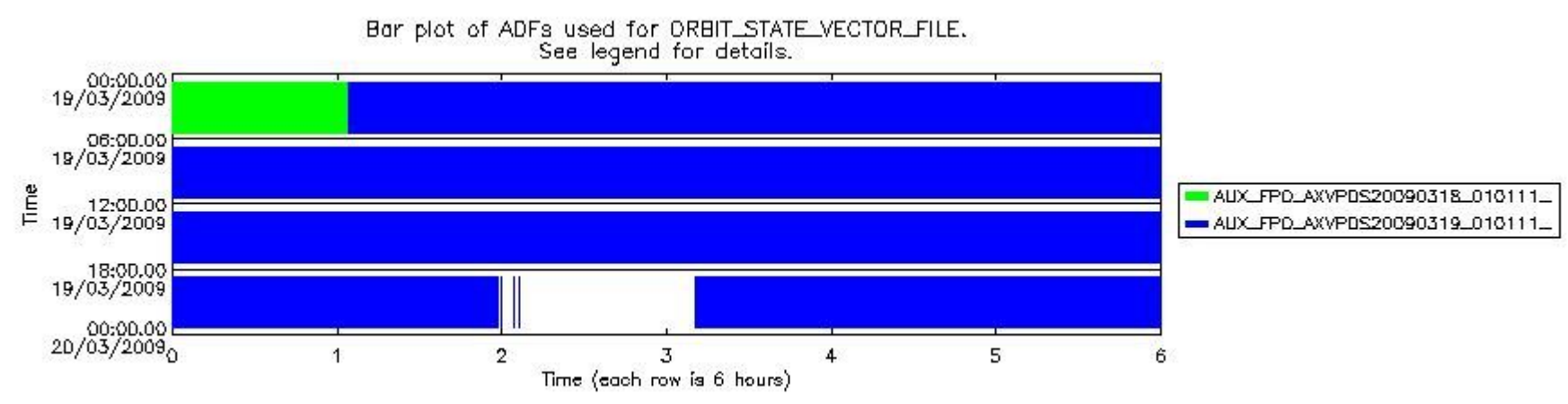
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

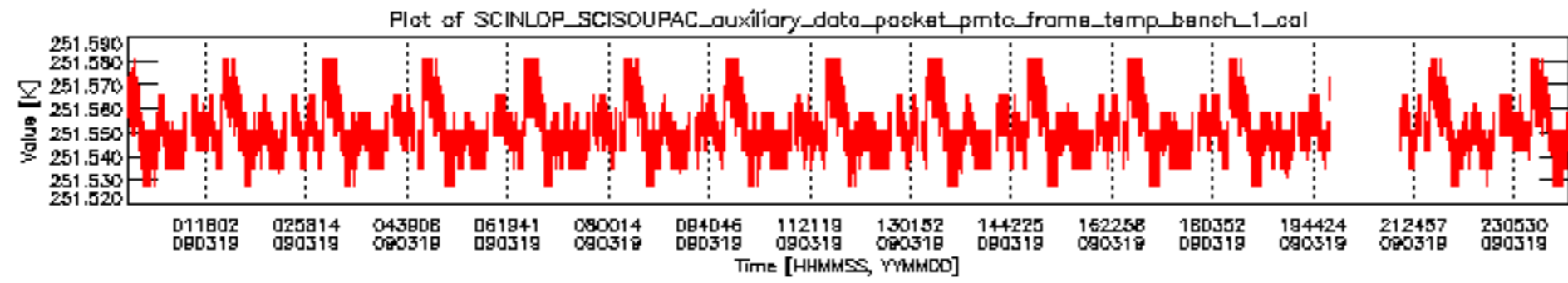
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090318_010111_20090317_190700_20090327_203313
2	AUX_FPO_AXVPDS20090319_010111_20090318_183523_20090328_200135



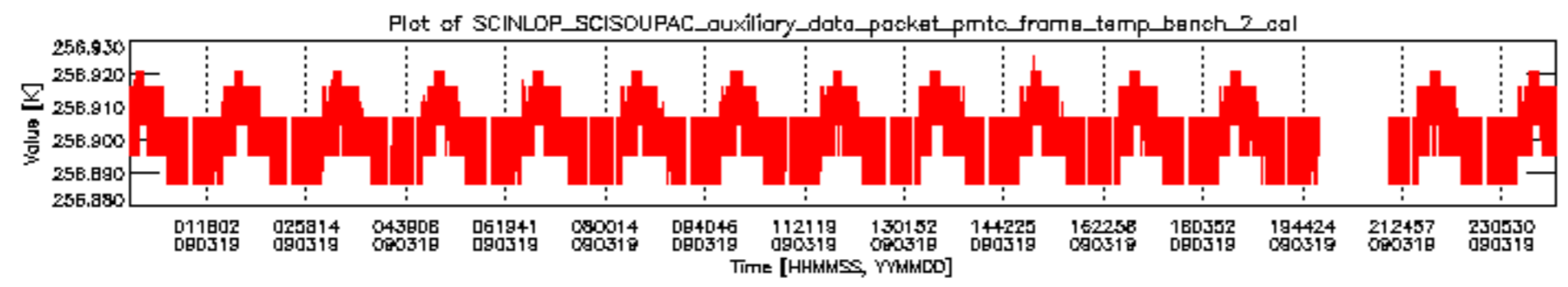
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090319\_7.PNG

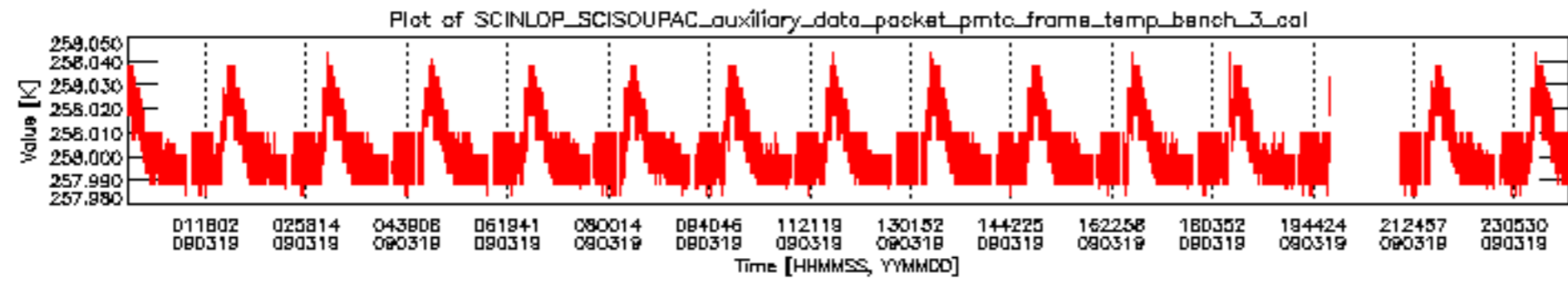


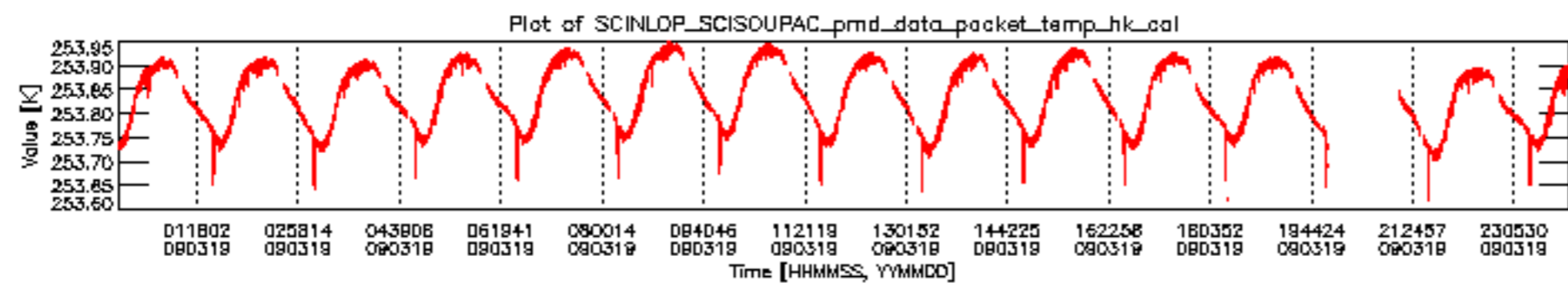
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090319\_8.PNG

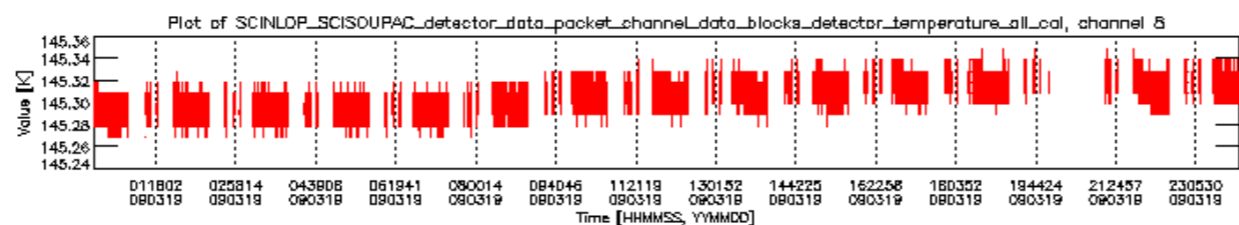
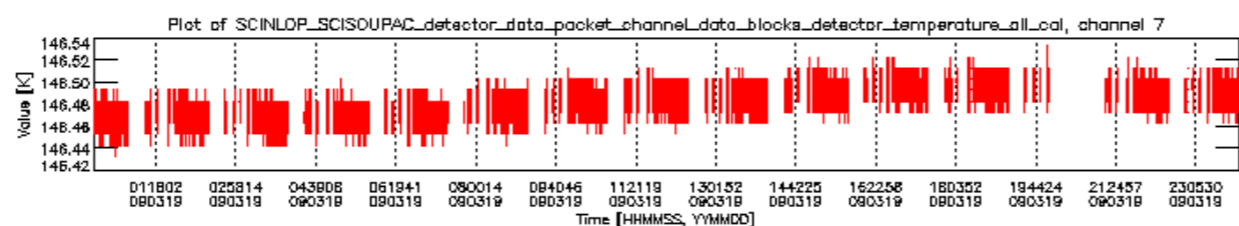
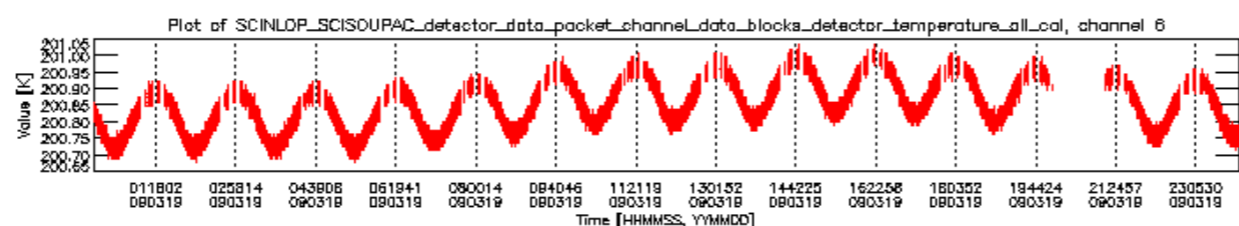
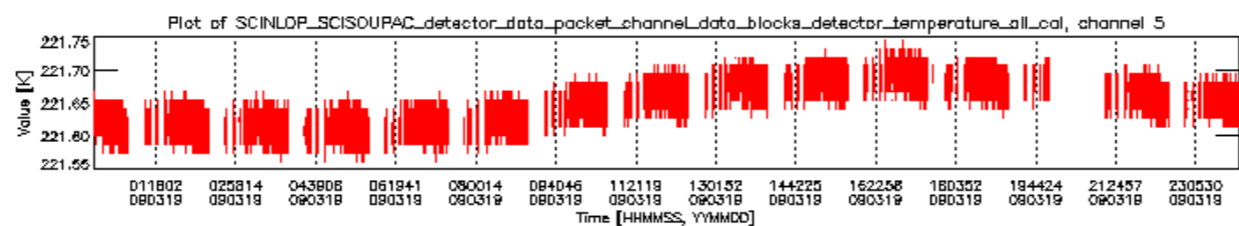
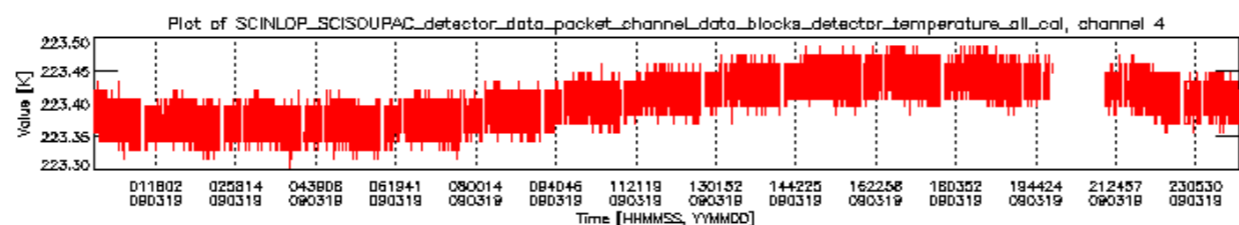
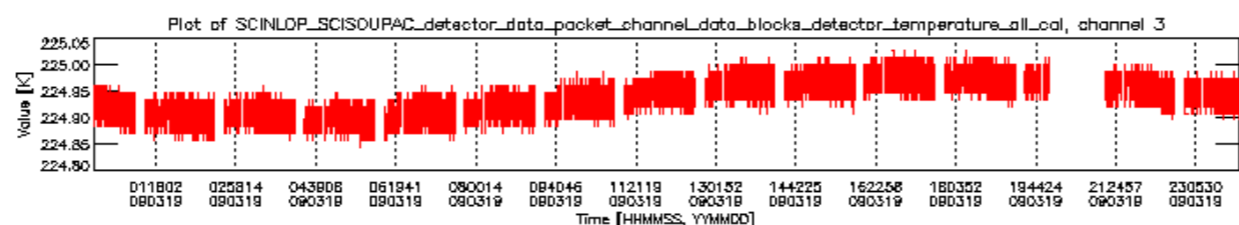
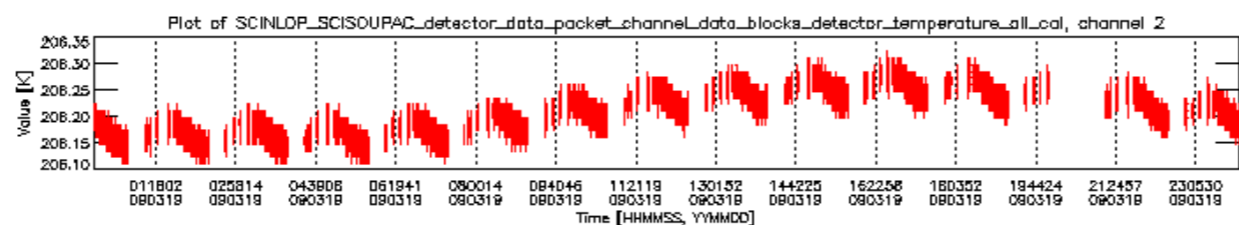
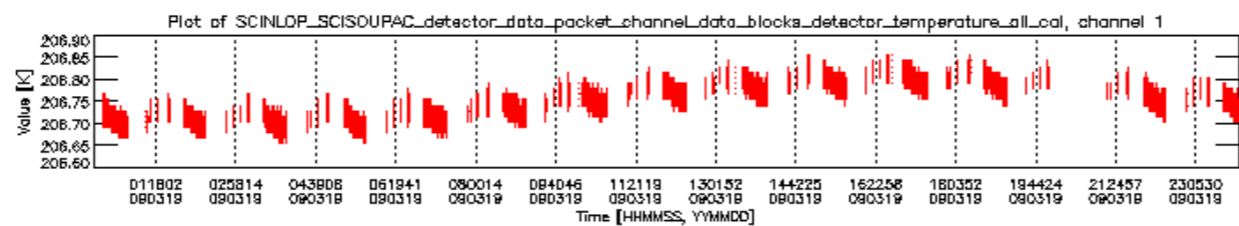


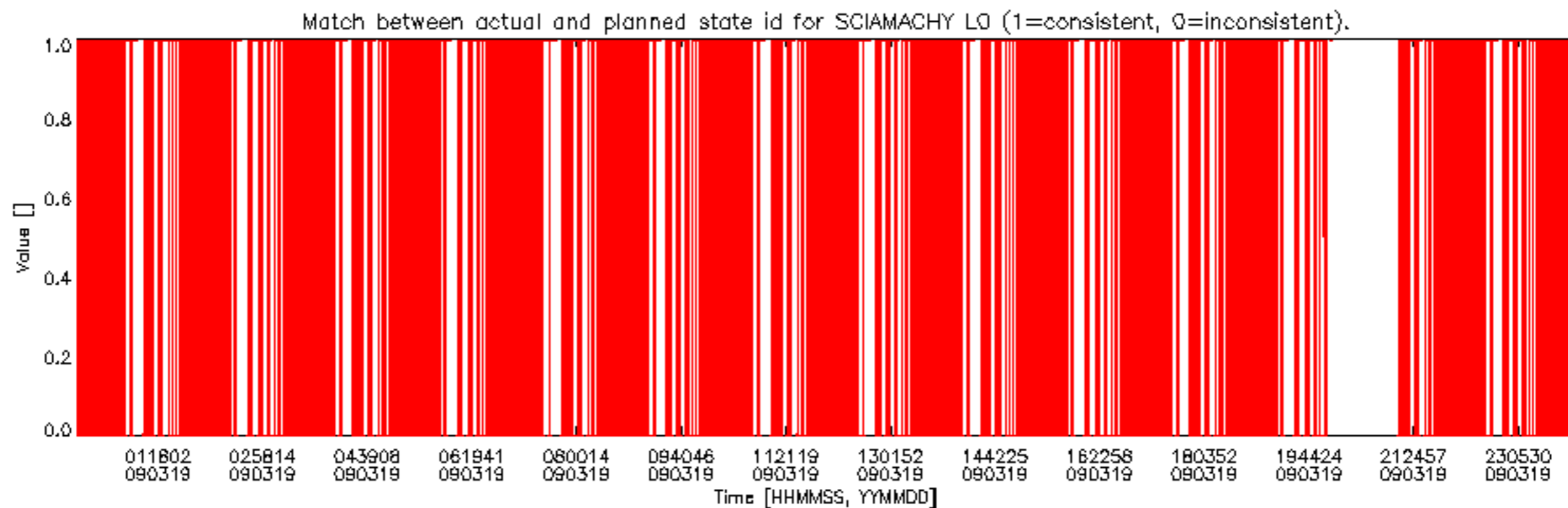
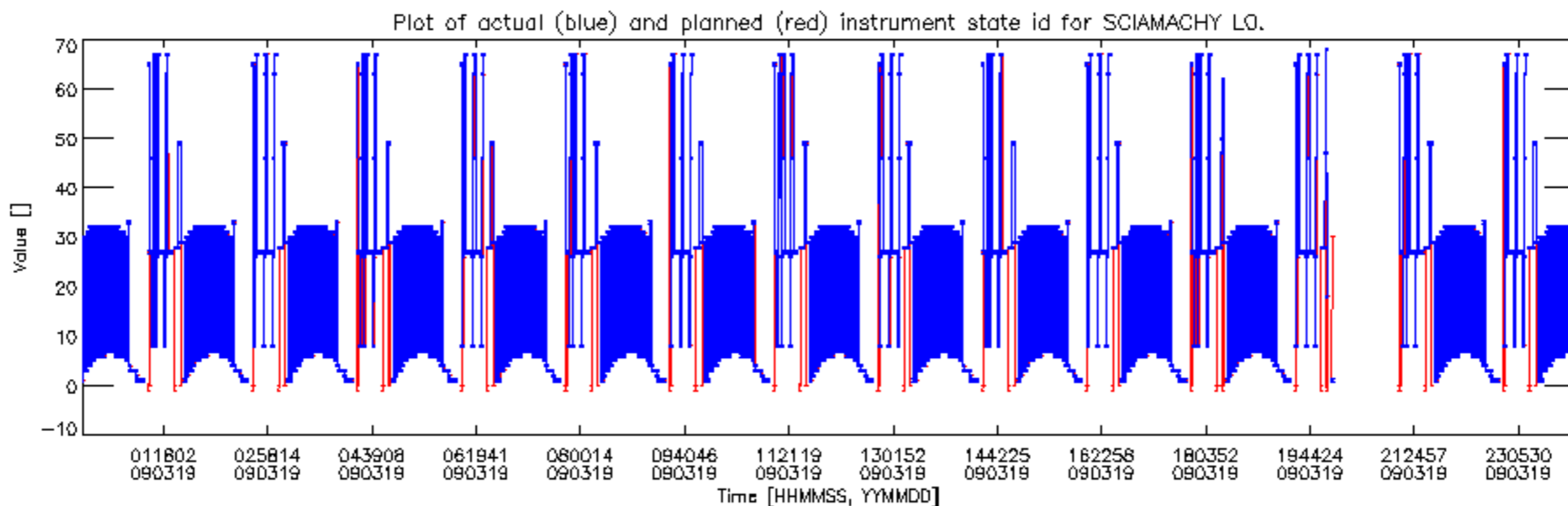






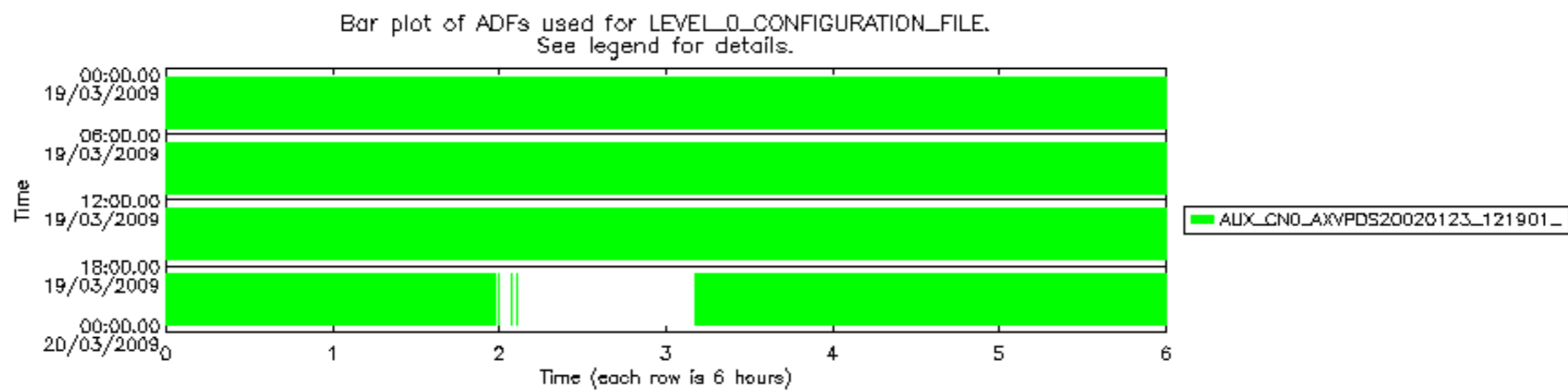






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 19MAR2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.





Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

