

## 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	18MAR2009 05:07:41
Data source version	KSPT_L0/4303-N
Processing scope for products	14MAR2009 00:00:00 to 15MAR2009 00:00:00
Start time of first product within scope	13MAR2009 22:42:47
Stop time of last product within scope	15MAR2009 01:31:25
Total number of level 0 products	17
Number of level 0 products with errors	2

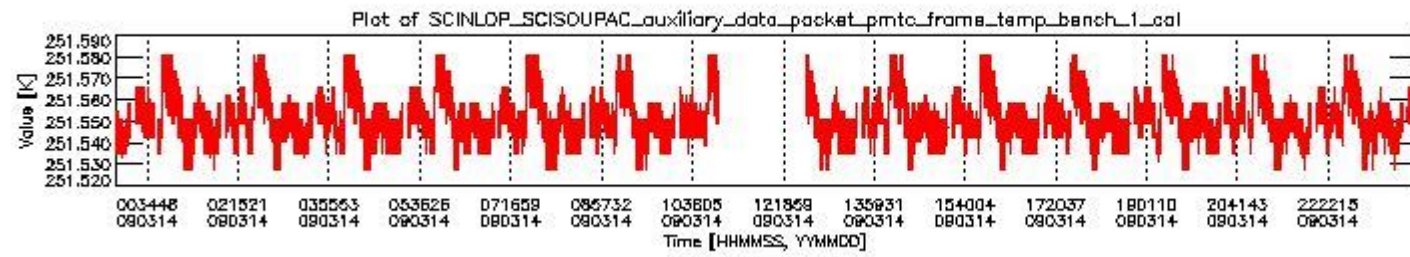
### 0.1.2 Summary per product

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

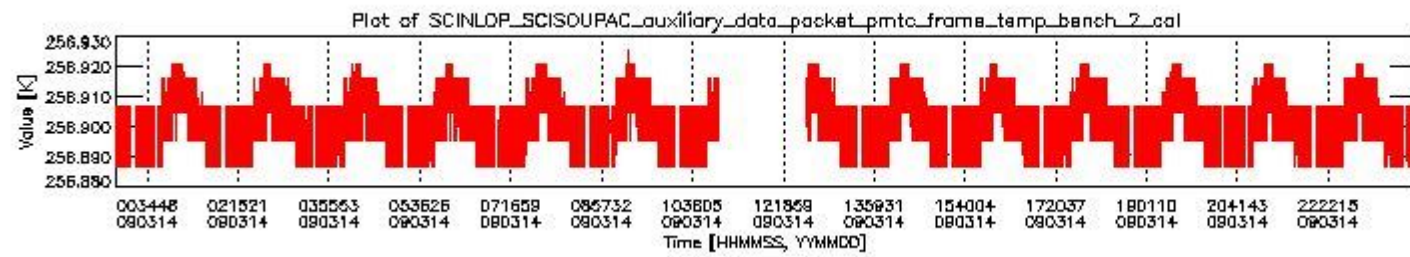
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090313_224247_000059892077_00158_36785_8666.N1	13MAR2009 22:42:47	14MAR2009 00:22:35	0	0	0	0	0
1	SCI_NL__OPNPDE20090314_002151_000055702077_00159_36786_8667.N1	14MAR2009 00:21:51	14MAR2009 01:54:41	0	0	0	0	0
2	SCI_NL__OPNPDE20090314_020143_000043742077_00160_36787_8668.N1	14MAR2009 02:01:43	14MAR2009 03:14:37	0	0	0	0	0
3	SCI_NL__OPNPDE20090314_031437_000061602077_00161_36788_8669.N1	14MAR2009 03:14:37	14MAR2009 04:57:17	0	0	0	0	0
4	SCI_NL__OPNPDE20090314_045608_000060482077_00162_36789_8670.N1	14MAR2009 04:56:08	14MAR2009 06:36:57	0	0	0	0	0
5	SCI_NL__OPNPDK20090314_063657_000040322077_00163_36790_0953.N1	14MAR2009 06:36:57	14MAR2009 07:44:08	0	0	0	0	0
6	SCI_NL__OPNPDK20090314_074313_000062282077_00164_36791_0954.N1	14MAR2009 07:43:13	14MAR2009 09:27:01	0	0	0	0	0
7	SCI_NL__OPNPDK20090314_092552_000059672077_00165_36792_0955.N1	14MAR2009 09:25:52	14MAR2009 11:05:19	1	1	0	0	0
8	SCI_NL__OPNPDK20090314_110423_000060352077_00166_36793_0957.N1	14MAR2009 11:04:23	14MAR2009 12:44:59	1	1	0	0	0
9	SCI_NL__OPNPDK20090314_124459_000058422077_00167_36794_0958.N1	14MAR2009 12:44:59	14MAR2009 14:22:21	0	0	0	0	0
10	SCI_NL__OPNPDK20090314_142017_000061042077_00168_36795_0959.N1	14MAR2009 14:20:17	14MAR2009 16:02:01	0	0	0	0	0
11	SCI_NL__OPNPDK20090314_160105_000057842077_00169_36796_0960.N1	14MAR2009 16:01:05	14MAR2009 17:37:29	0	0	0	0	0
12	SCI_NL__OPNPDK20090314_173526_000060362077_00170_36797_0961.N1	14MAR2009 17:35:26	14MAR2009 19:16:02	0	0	0	0	0
13	SCI_NL__OPNPDK20090314_191602_000060352077_00171_36798_0962.N1	14MAR2009 19:16:02	14MAR2009 20:56:37	0	0	0	0	0
14	SCI_NL__OPNPDE20090314_205637_000044172077_00172_36799_8671.N1	14MAR2009 20:56:37	14MAR2009 22:10:14	0	0	0	0	0
15	SCI_NL__OPNPDE20090314_220931_000062112077_00172_36799_8672.N1	14MAR2009 22:09:31	14MAR2009 23:53:02	0	0	0	0	0
16	SCI_NL__OPNPDE20090314_235134_000059912077_00173_36800_8673.N1	14MAR2009 23:51:34	15MAR2009 01:31:25	0	0	0	0	0

## 0.2 Product Quality Indicators

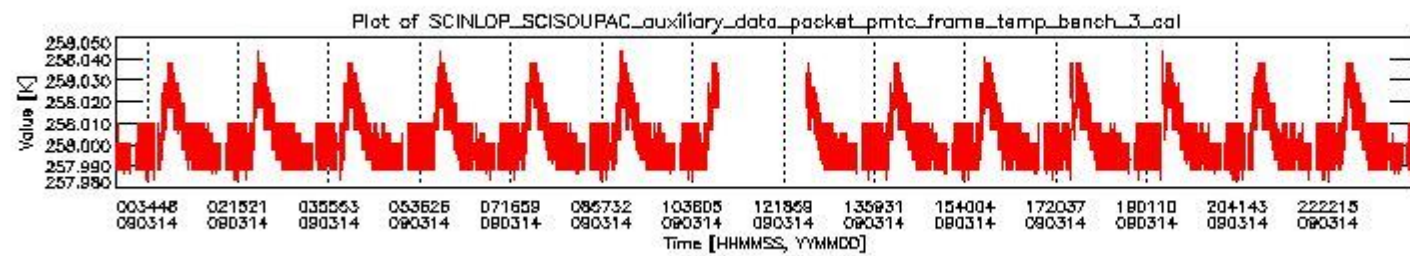
This section shows information about product quality, currently temperatures.



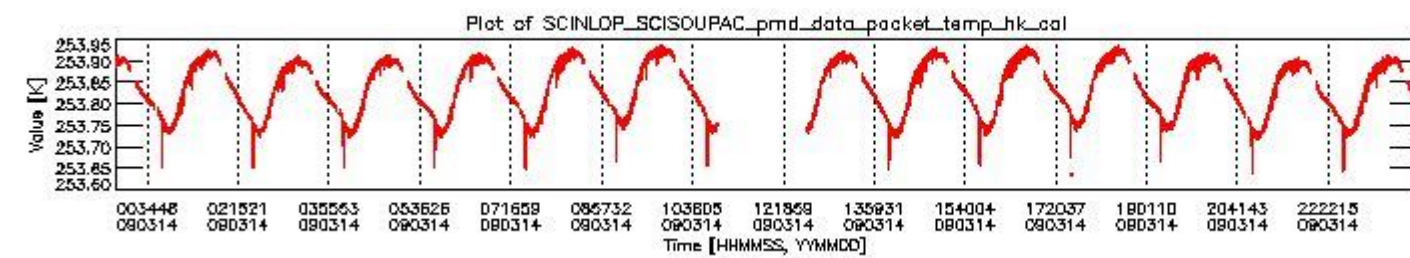
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090314\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090314\_1.PNG

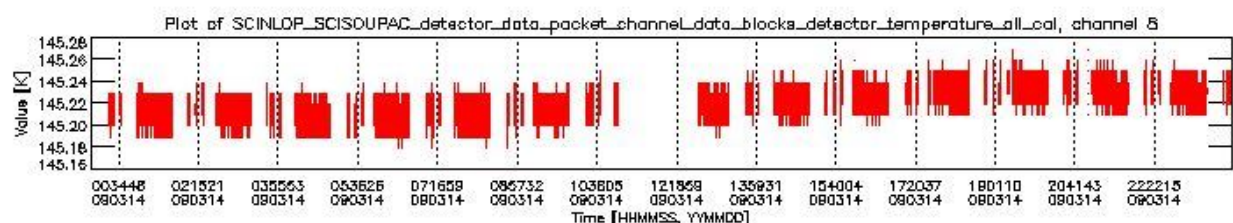
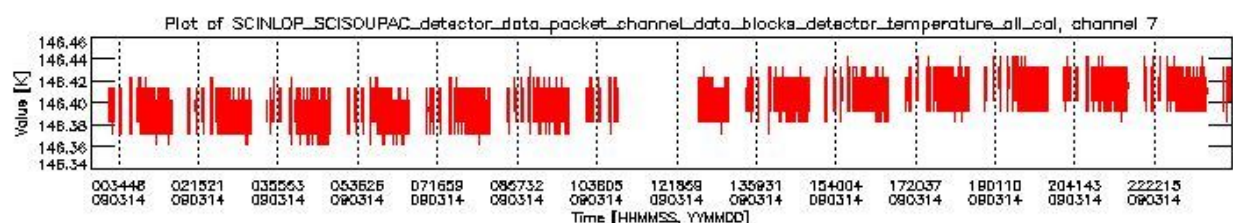
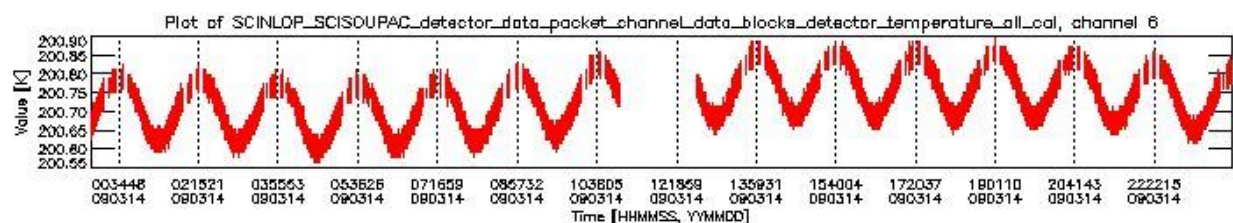
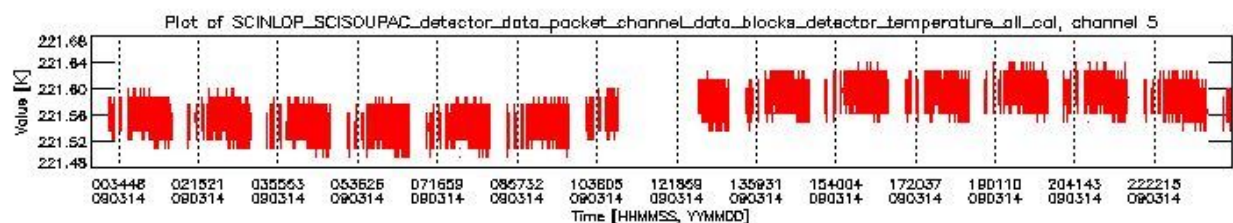
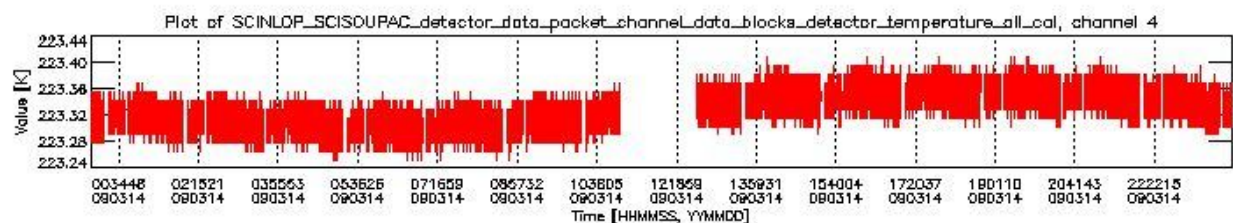
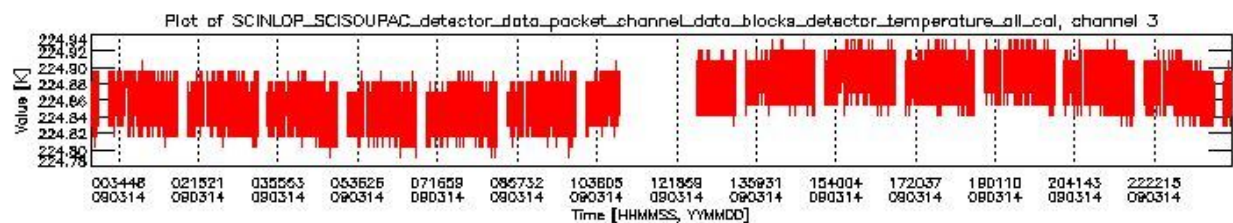
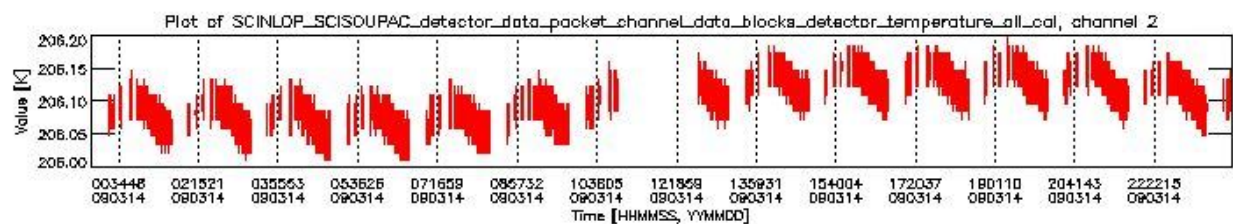
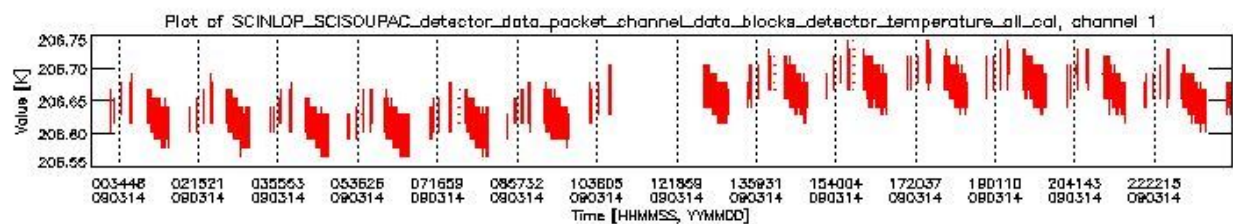


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090314\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090314\_3.PNG



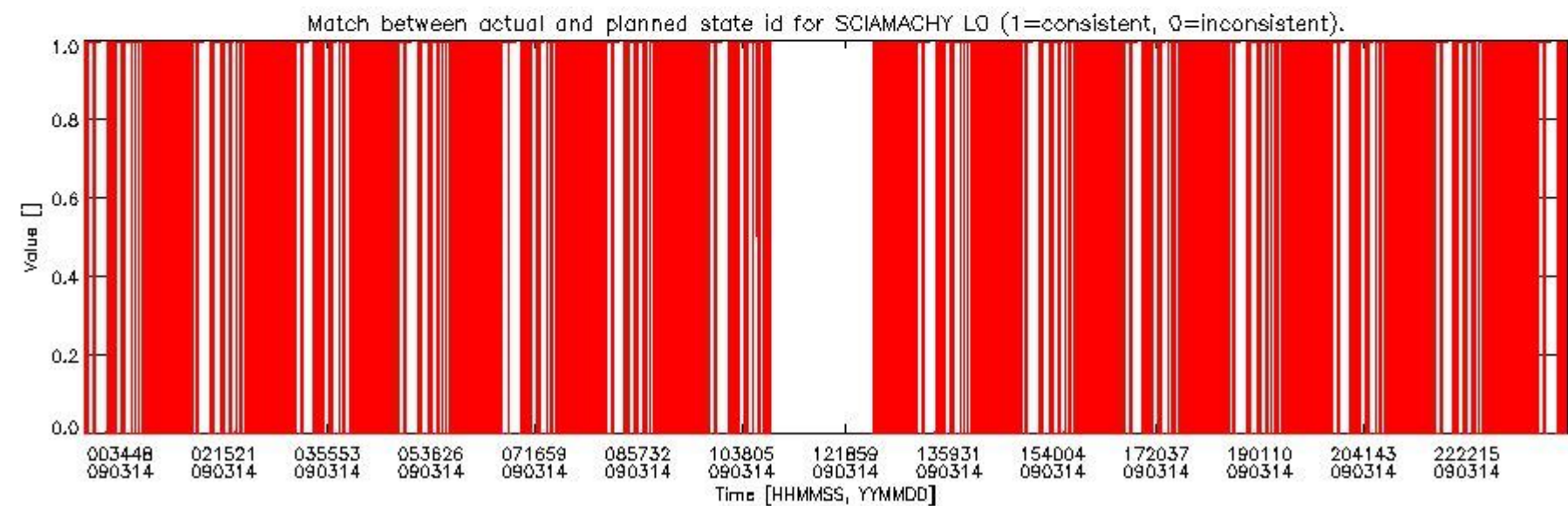
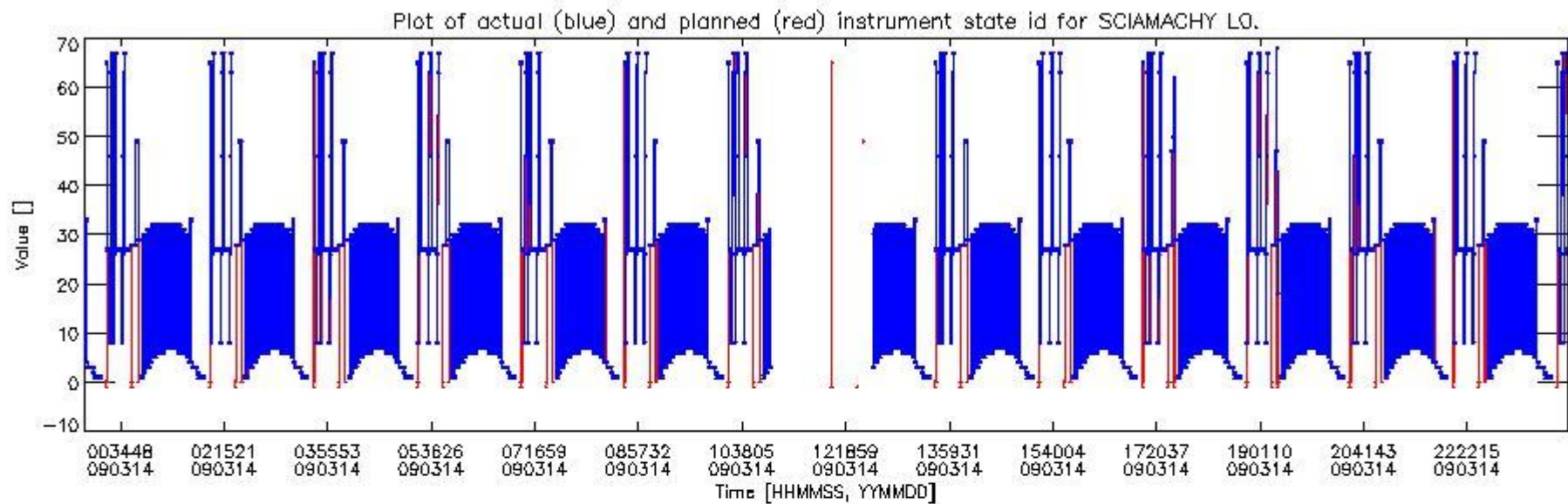


### 0.3 State monitoring

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: **45131**

#	Actual time	Actual value	Planned time	Planned value
0	14MAR2009 00:00:48.461536	33	14MAR2009 00:00:48.461536	5
1	14MAR2009 00:00:49.461530	33	14MAR2009 00:00:49.461530	5
2	14MAR2009 00:00:50.399043	33	14MAR2009 00:00:50.399043	5
3	14MAR2009 00:00:51.149029	33	14MAR2009 00:00:51.149029	5
4	14MAR2009 00:00:52.086541	33	14MAR2009 00:00:52.086541	5
5	14MAR2009 00:00:52.836527	33	14MAR2009 00:00:52.836527	5
6	14MAR2009 00:00:53.461549	33	14MAR2009 00:00:53.461549	5
7	14MAR2009 00:00:53.774039	33	14MAR2009 00:00:53.774039	5
8	14MAR2009 00:00:54.524025	33	14MAR2009 00:00:54.524025	5
9	14MAR2009 00:00:55.461538	33	14MAR2009 00:00:55.461538	5
10	14MAR2009 00:00:56.211524	33	14MAR2009 00:00:56.211524	5
11	14MAR2009 00:00:57.149036	33	14MAR2009 00:00:57.149036	5
12	14MAR2009 00:00:57.899022	33	14MAR2009 00:00:57.899022	5
13	14MAR2009 00:00:58.461522	33	14MAR2009 00:00:58.461522	5
14	14MAR2009 00:00:58.836535	33	14MAR2009 00:00:58.836535	5
15	14MAR2009 00:01:44.332647	4	14MAR2009 00:01:44.332647	33
16	14MAR2009 00:01:44.582655	4	14MAR2009 00:01:44.582655	33
17	14MAR2009 00:01:44.707660	4	14MAR2009 00:01:44.707660	33
18	14MAR2009 00:01:44.832624	4	14MAR2009 00:01:44.832624	33
19	14MAR2009 00:01:44.957628	4	14MAR2009 00:01:44.957628	33
...	...	...	...	...



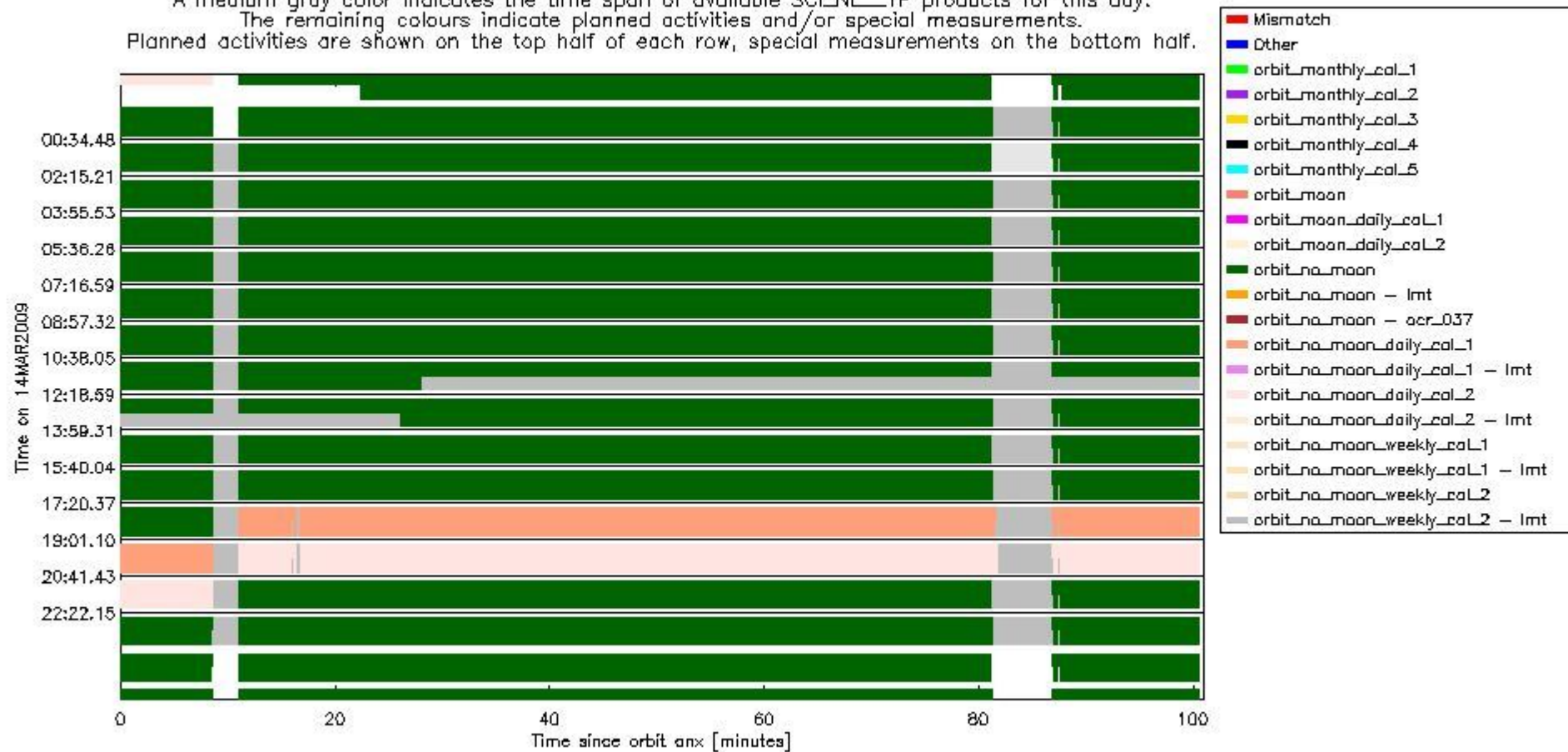
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090314\_5.PNG

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 14MAR2009.  
 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\_20090314\_6.PNG

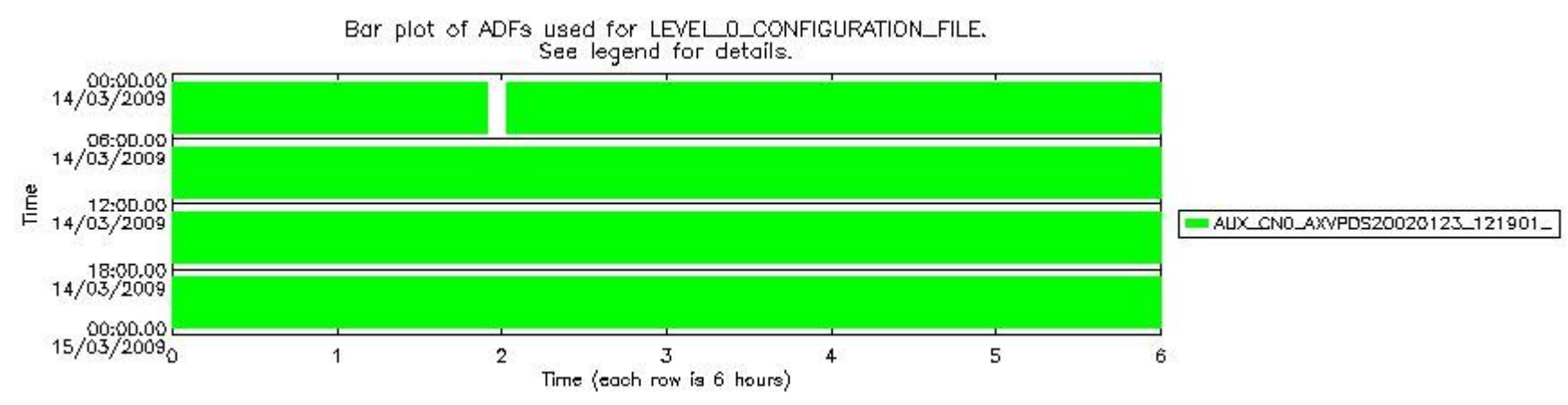
## 0.4 ADF monitoring

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

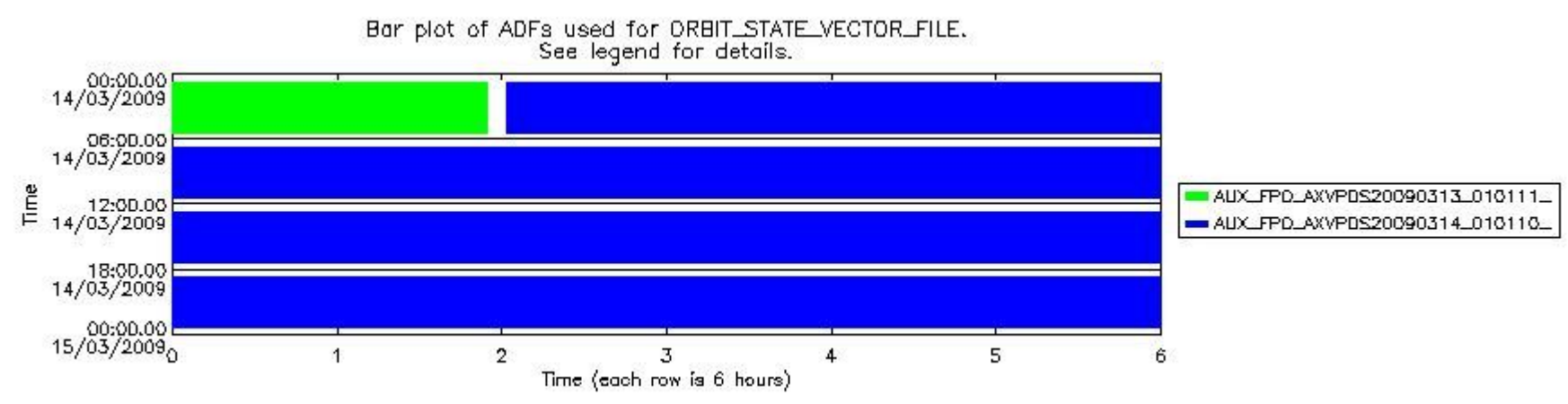
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

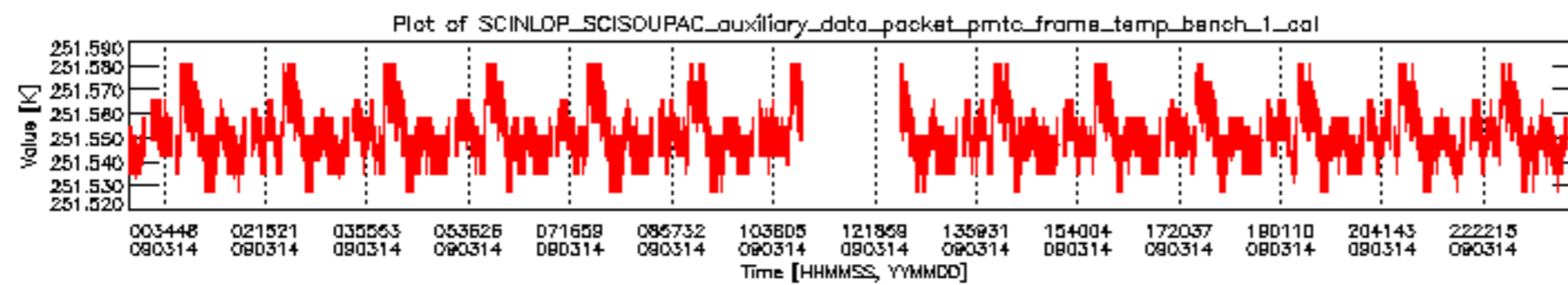
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20090313_010111_20090312_182354_20090322_213042</b>
2	<b>AUX_FPO_AXVPDS20090314_010110_20090313_193252_20090323_205905</b>



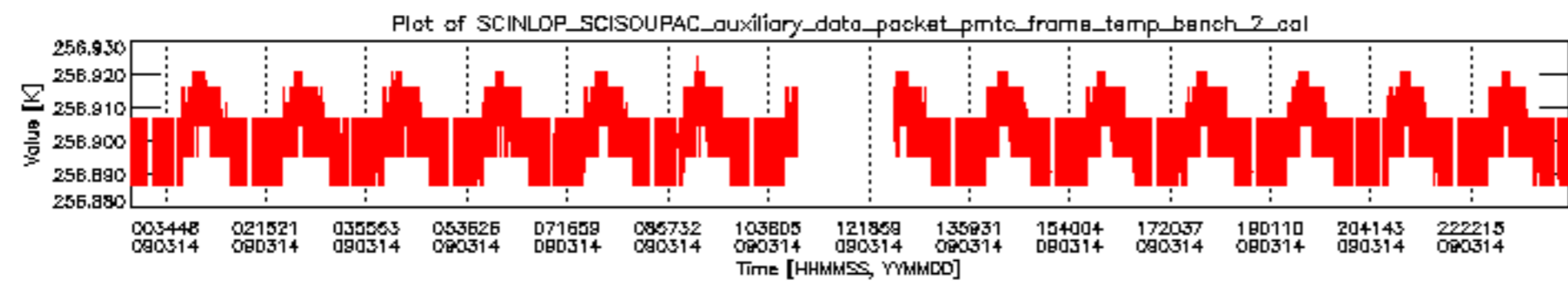
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090314\_7.PNG

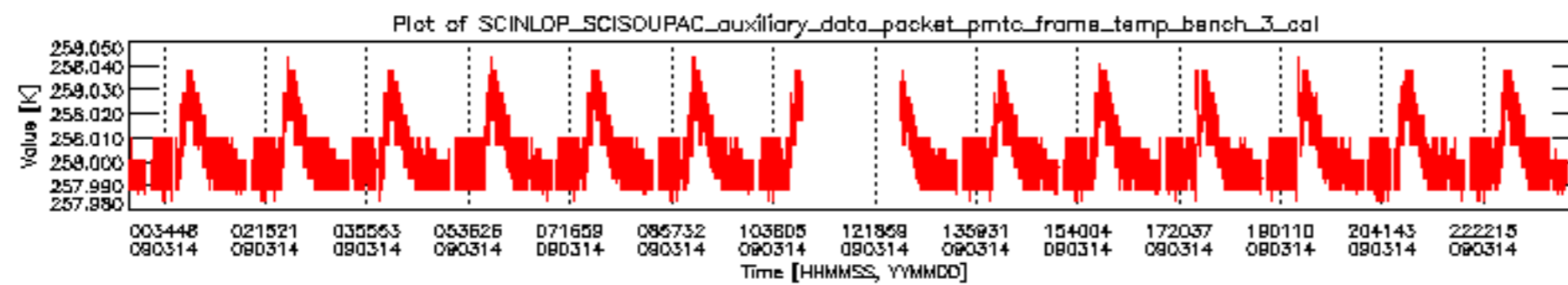


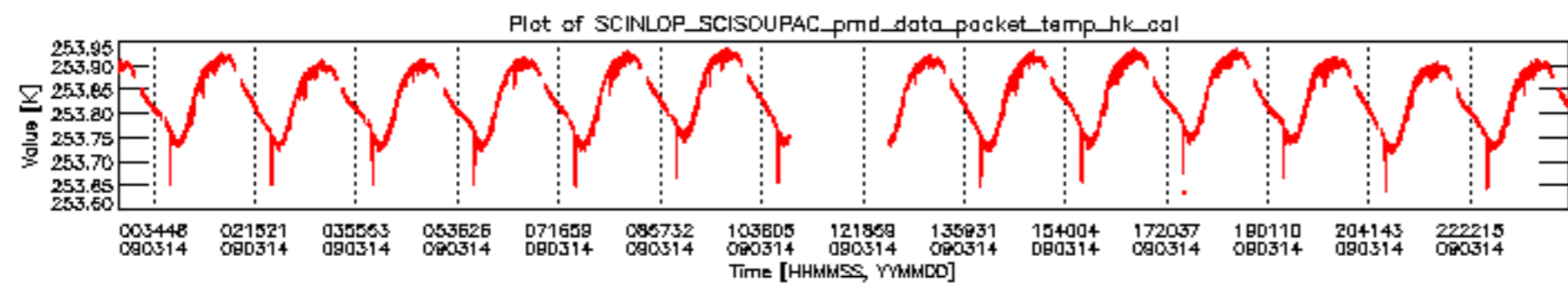
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090314\_8.PNG

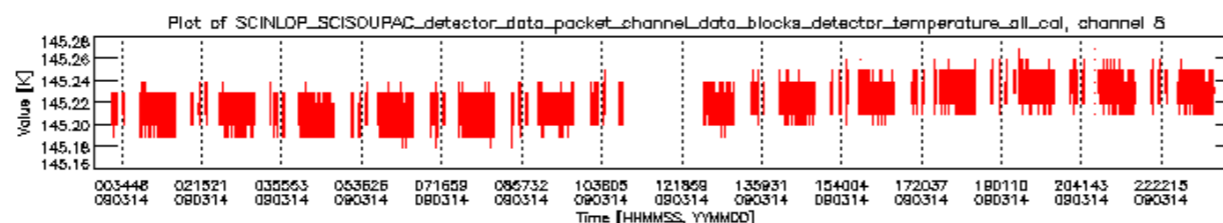
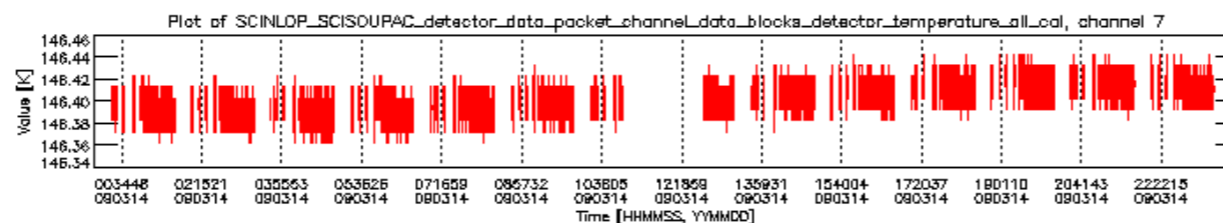
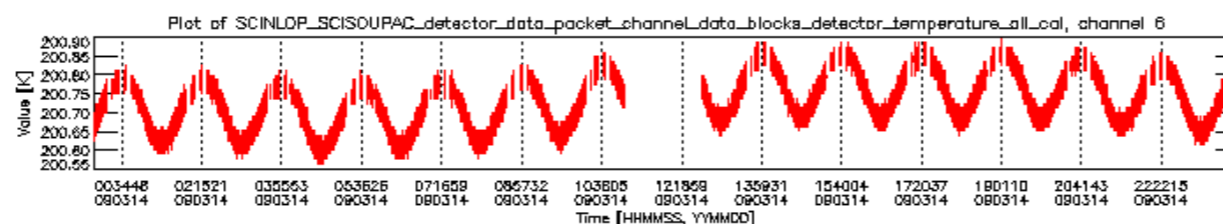
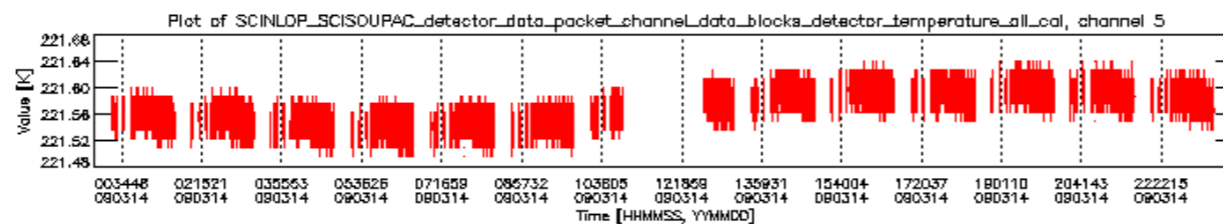
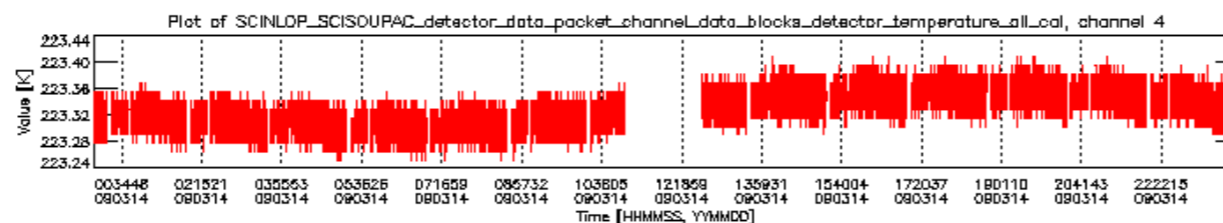
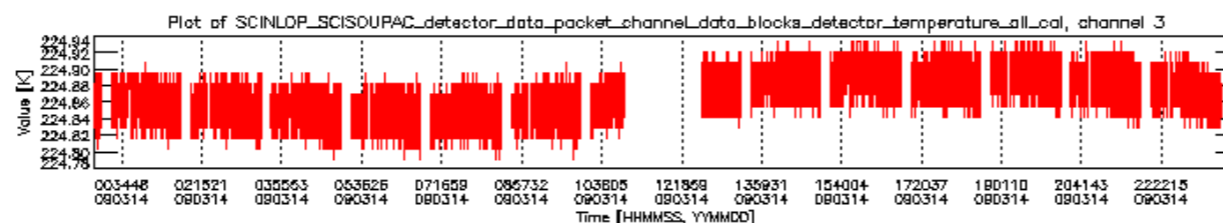
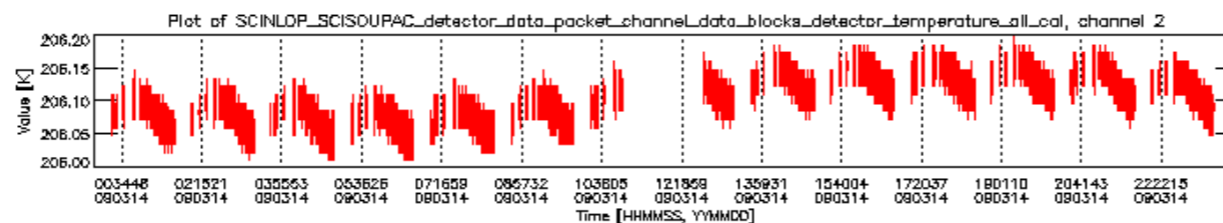
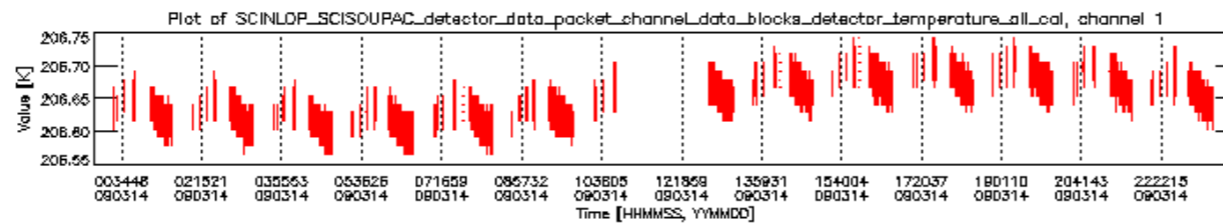




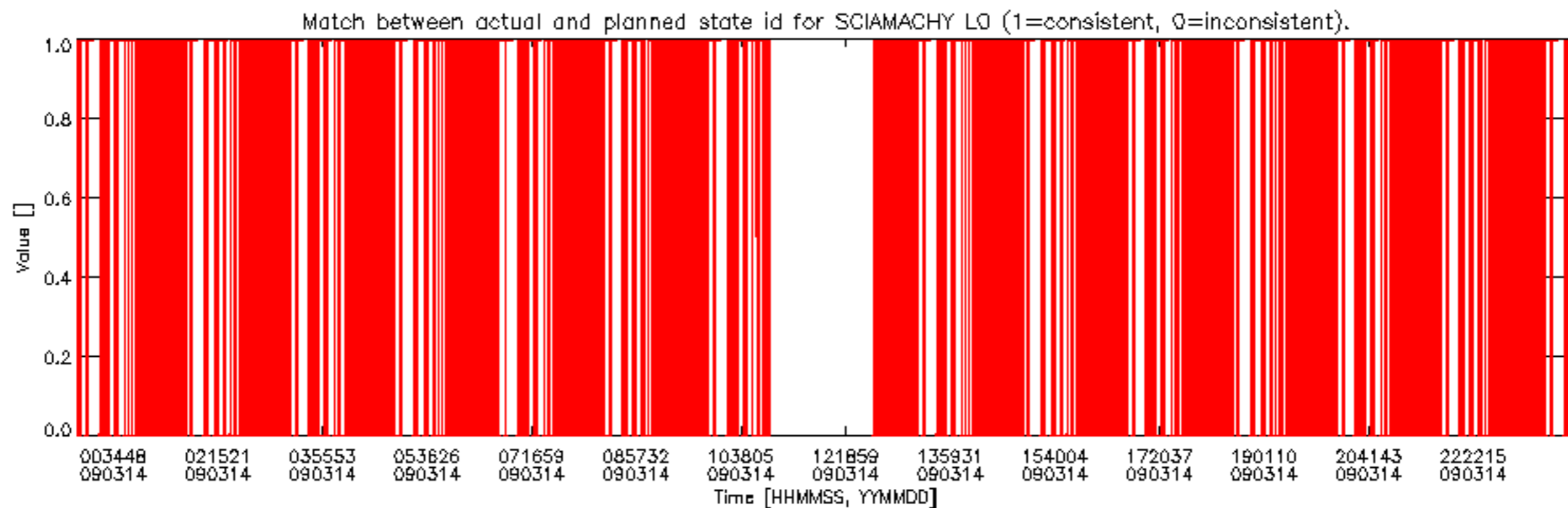
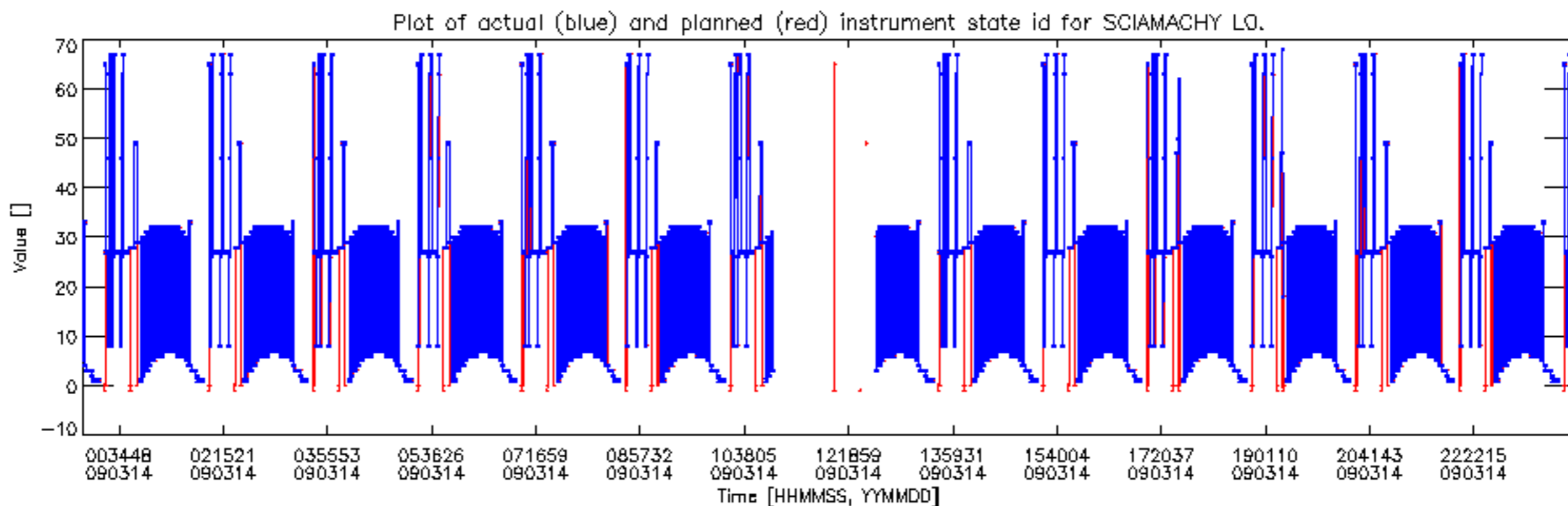












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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