

## 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	18SEP2006 08:14:00
Data source version	PFHS/5.37-N
Processing scope for products	14SEP2006 00:00:00 to 15SEP2006 00:00:00
Start time of first product within scope	13SEP2006 23:45:16
Stop time of last product within scope	14SEP2006 23:14:20
Total number of level 0 products	15
Number of level 0 products with errors	15

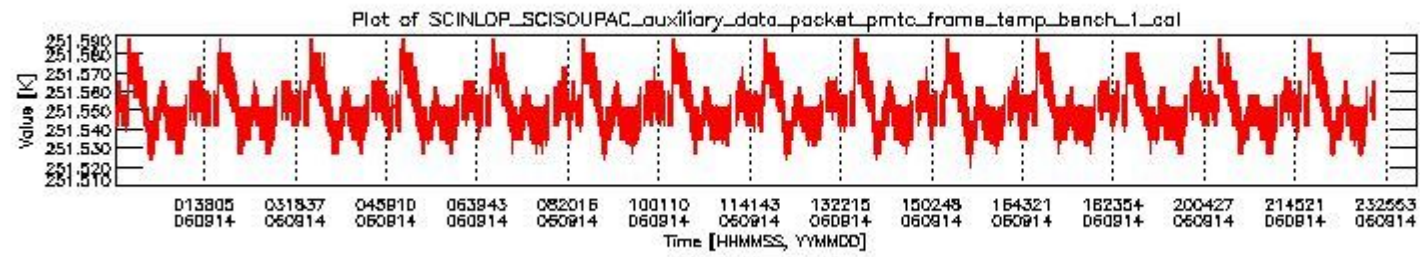
### 0.1.2 Summary per product

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

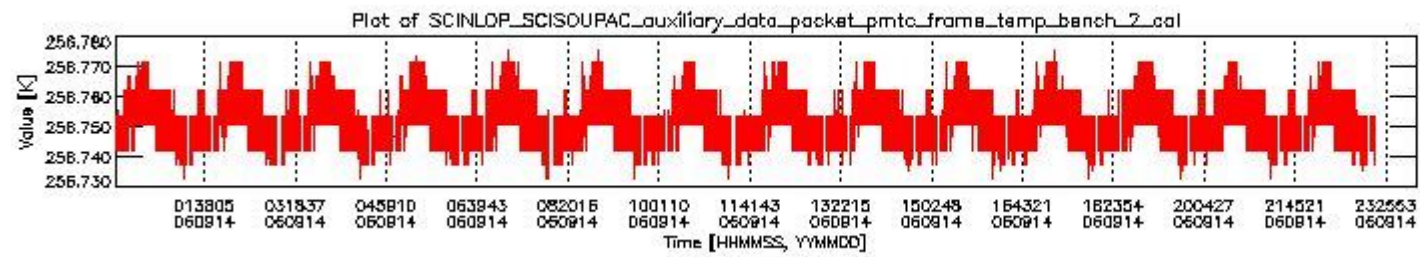
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20060913_234516_000059842051_00130_23731_0585.N1	13SEP2006 23:45:16	14SEP2006 01:25:01	1	0	1	0	0
1	SCI_NL__OPNPDE20060914_012427_000043642051_00131_23732_0586.N1	14SEP2006 01:24:27	14SEP2006 02:37:12	1	0	1	0	0
2	SCI_NL__OPNPDE20060914_023712_000061482051_00132_23733_0587.N1	14SEP2006 02:37:12	14SEP2006 04:19:40	1	0	1	0	0
3	SCI_NL__OPNPDE20060914_041844_000060362051_00133_23734_0588.N1	14SEP2006 04:18:44	14SEP2006 05:59:21	1	0	1	0	0
4	SCI_NL__OPNPDK20060914_055825_000042252051_00134_23735_0712.N1	14SEP2006 05:58:25	14SEP2006 07:08:51	1	0	1	0	0
5	SCI_NL__OPNPDK20060914_070742_000061042051_00135_23736_0713.N1	14SEP2006 07:07:42	14SEP2006 08:49:27	1	0	1	0	0
6	SCI_NL__OPNPDK20060914_084927_000059802051_00136_23737_0714.N1	14SEP2006 08:49:27	14SEP2006 10:29:08	1	0	1	0	0
7	SCI_NL__OPNPDK20060914_102759_000060362051_00137_23738_0715.N1	14SEP2006 10:27:59	14SEP2006 12:08:35	1	0	1	0	0
8	SCI_NL__OPNPDK20060914_120739_000059672051_00138_23739_0716.N1	14SEP2006 12:07:39	14SEP2006 13:47:07	1	0	1	0	0
9	SCI_NL__OPNPDK20060914_134559_000058002051_00139_23740_0717.N1	14SEP2006 13:45:59	14SEP2006 15:22:39	1	0	1	0	0
10	SCI_NL__OPNPDK20060914_152035_000059802051_00140_23741_0718.N1	14SEP2006 15:20:35	14SEP2006 17:00:15	1	0	1	0	0
11	SCI_NL__OPNPDK20060914_165919_000059782051_00141_23742_0719.N1	14SEP2006 16:59:19	14SEP2006 18:38:58	1	0	1	0	0
12	SCI_NL__OPNPDK20060914_183738_000062502051_00142_23743_0720.N1	14SEP2006 18:37:38	14SEP2006 20:21:48	1	0	1	0	0
13	SCI_NL__OPNPDE20060914_202012_000042452051_00143_23744_0589.N1	14SEP2006 20:20:12	14SEP2006 21:30:58	1	0	1	0	0
14	SCI_NL__OPNPDE20060914_212930_000062892051_00143_23744_0590.N1	14SEP2006 21:29:30	14SEP2006 23:14:20	1	0	1	0	0

## 0.2 Product Quality Indicators

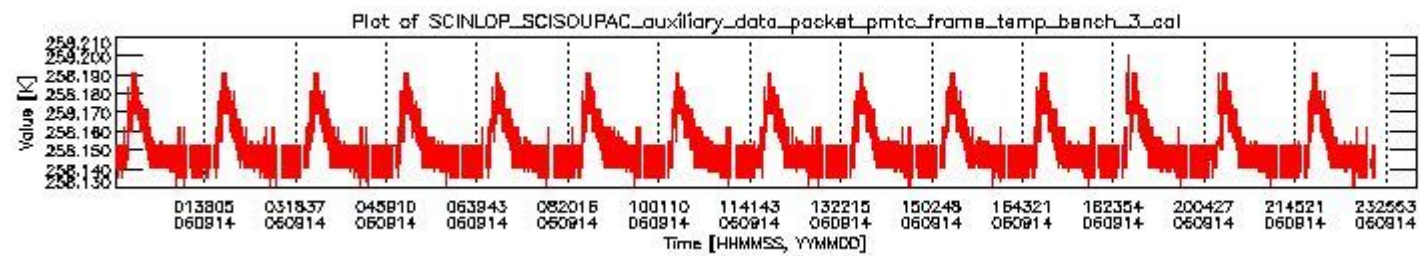
This section shows information about product quality, currently temperatures.



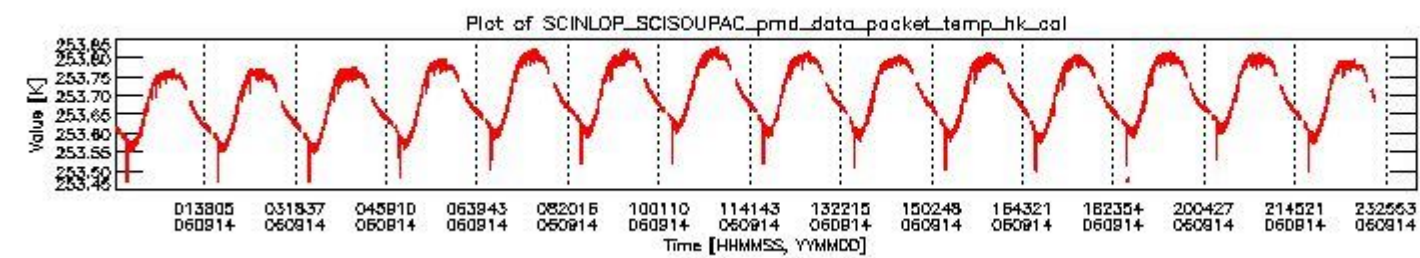
sciamachy\_daily\_report\_level0\_PFHS\_5\_37\_N\_20060914\_0.PNG



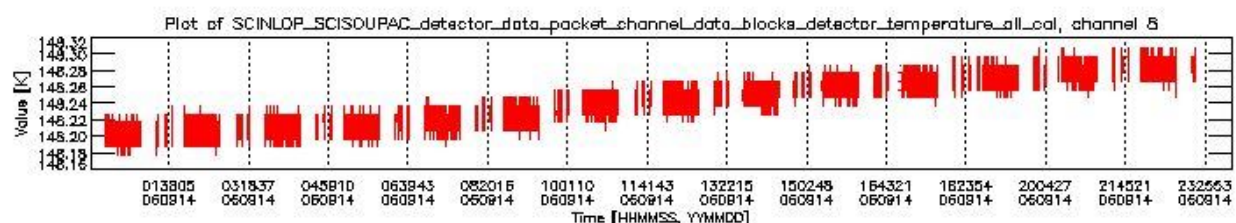
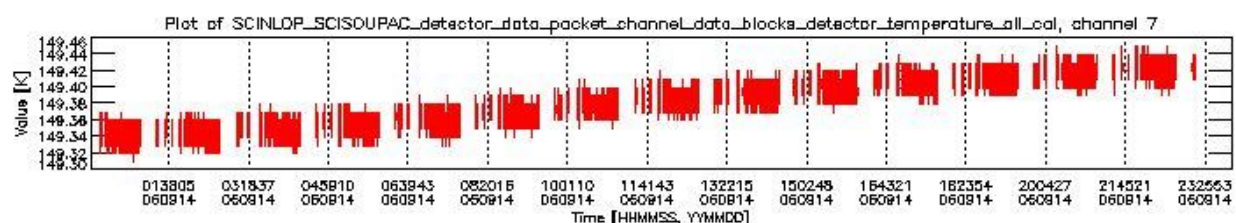
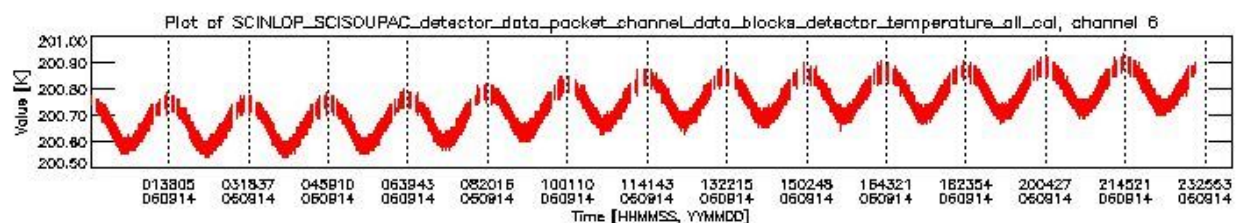
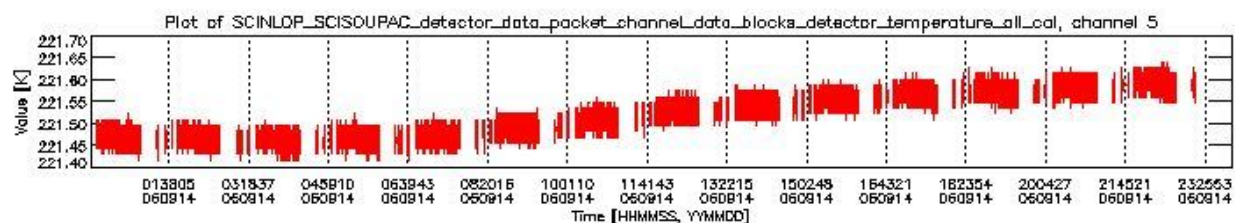
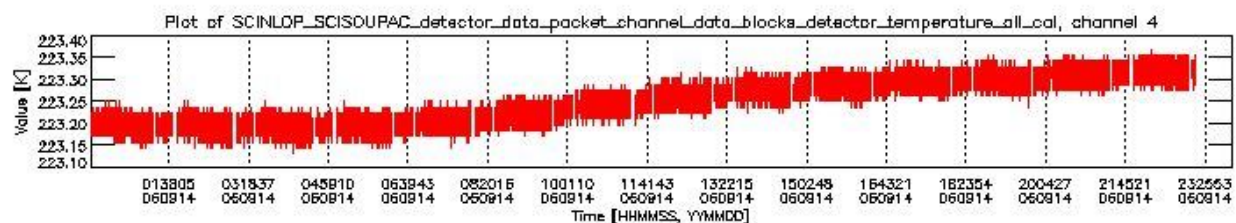
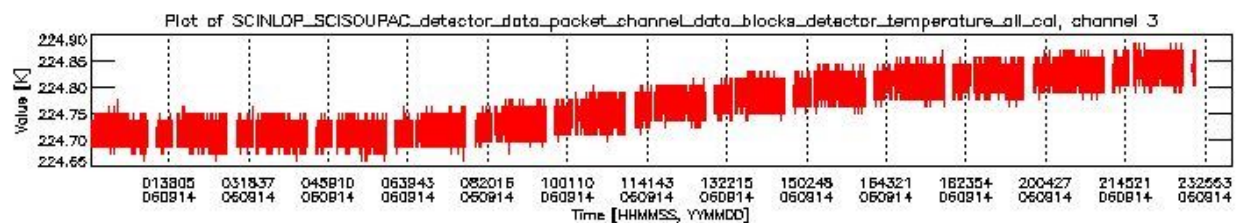
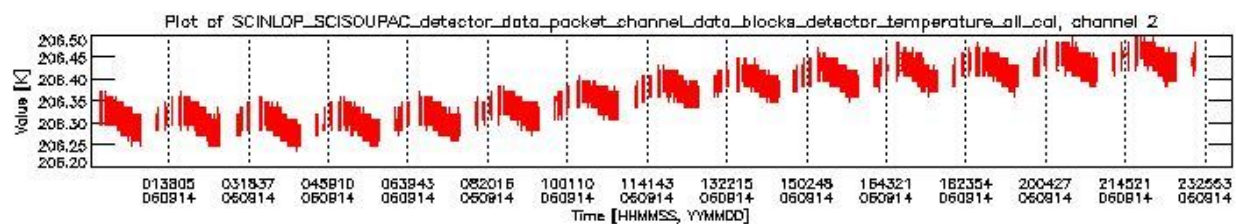
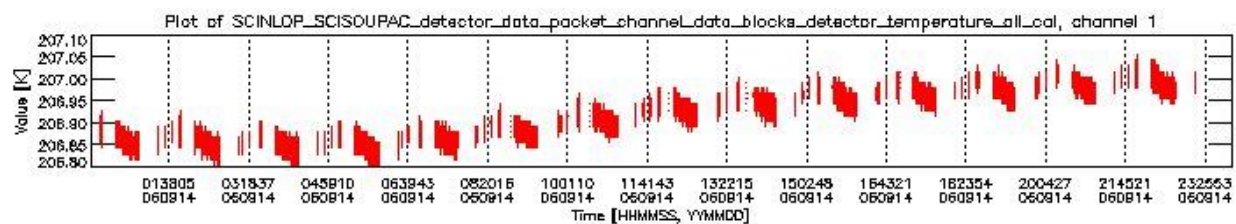
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sciamachy\_daily\_report\_level0\_PFHS\_5\_37\_N\_20060914\_2.PNG



sciamachy\_daily\_report\_level0\_PFHS\_5\_37\_N\_20060914\_3.PNG

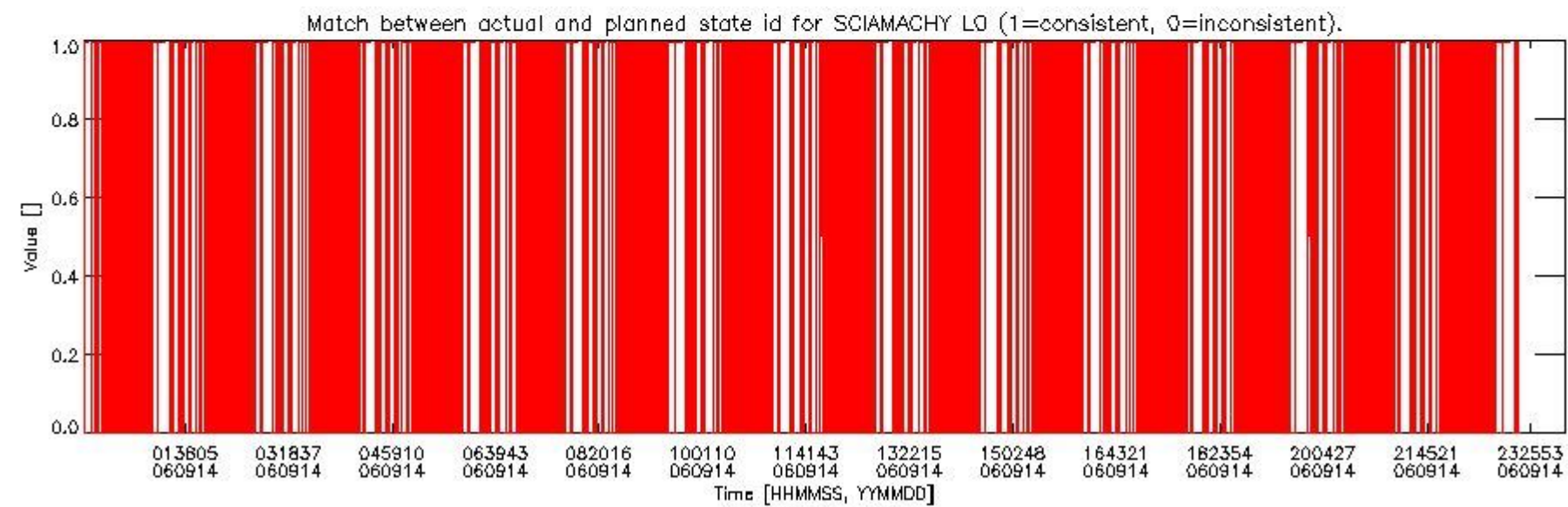
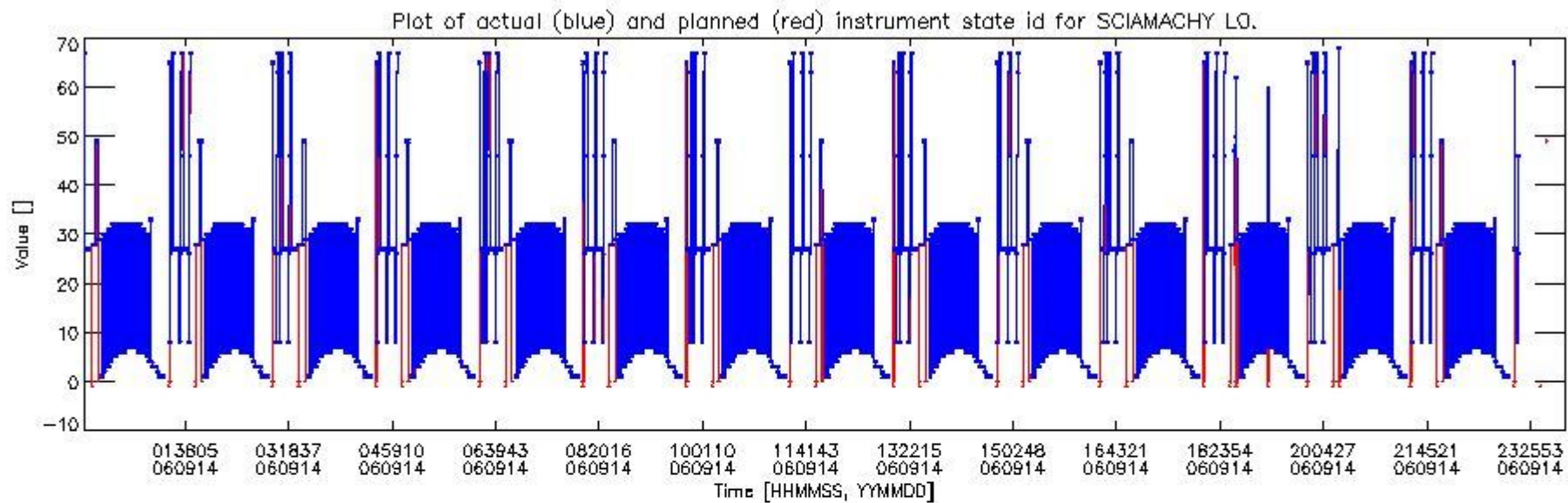


### 0.3 State monitoring

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: **21258**

#	Actual time	Actual value	Planned time	Planned value
0	14SEP2006 00:00:04.574186	27	14SEP2006 00:00:04.574186	67
1	14SEP2006 00:00:05.574180	27	14SEP2006 00:00:05.574180	67
2	14SEP2006 00:00:06.511693	27	14SEP2006 00:00:06.511693	67
3	14SEP2006 00:00:07.261679	27	14SEP2006 00:00:07.261679	67
4	14SEP2006 00:00:08.199191	27	14SEP2006 00:00:08.199191	67
5	14SEP2006 00:00:08.949177	27	14SEP2006 00:00:08.949177	67
6	14SEP2006 00:00:09.574199	27	14SEP2006 00:00:09.574199	67
7	14SEP2006 00:07:12.984294	28	14SEP2006 00:07:12.984294	0
8	14SEP2006 00:07:13.609316	28	14SEP2006 00:07:13.609316	0
9	14SEP2006 00:07:13.984329	28	14SEP2006 00:07:13.984329	0
10	14SEP2006 00:07:14.359302	28	14SEP2006 00:07:14.359302	0
11	14SEP2006 00:07:14.921801	28	14SEP2006 00:07:14.921801	0
12	14SEP2006 00:07:15.296814	28	14SEP2006 00:07:15.296814	0
13	14SEP2006 00:07:15.671827	28	14SEP2006 00:07:15.671827	0
14	14SEP2006 00:07:16.046800	28	14SEP2006 00:07:16.046800	0
15	14SEP2006 00:07:16.609299	28	14SEP2006 00:07:16.609299	0
16	14SEP2006 00:07:16.984313	28	14SEP2006 00:07:16.984313	0
17	14SEP2006 00:07:17.359326	28	14SEP2006 00:07:17.359326	0
18	14SEP2006 00:07:17.734298	28	14SEP2006 00:07:17.734298	0
19	14SEP2006 00:10:57.503816	49	14SEP2006 00:10:57.503816	28
...	...	...	...	...

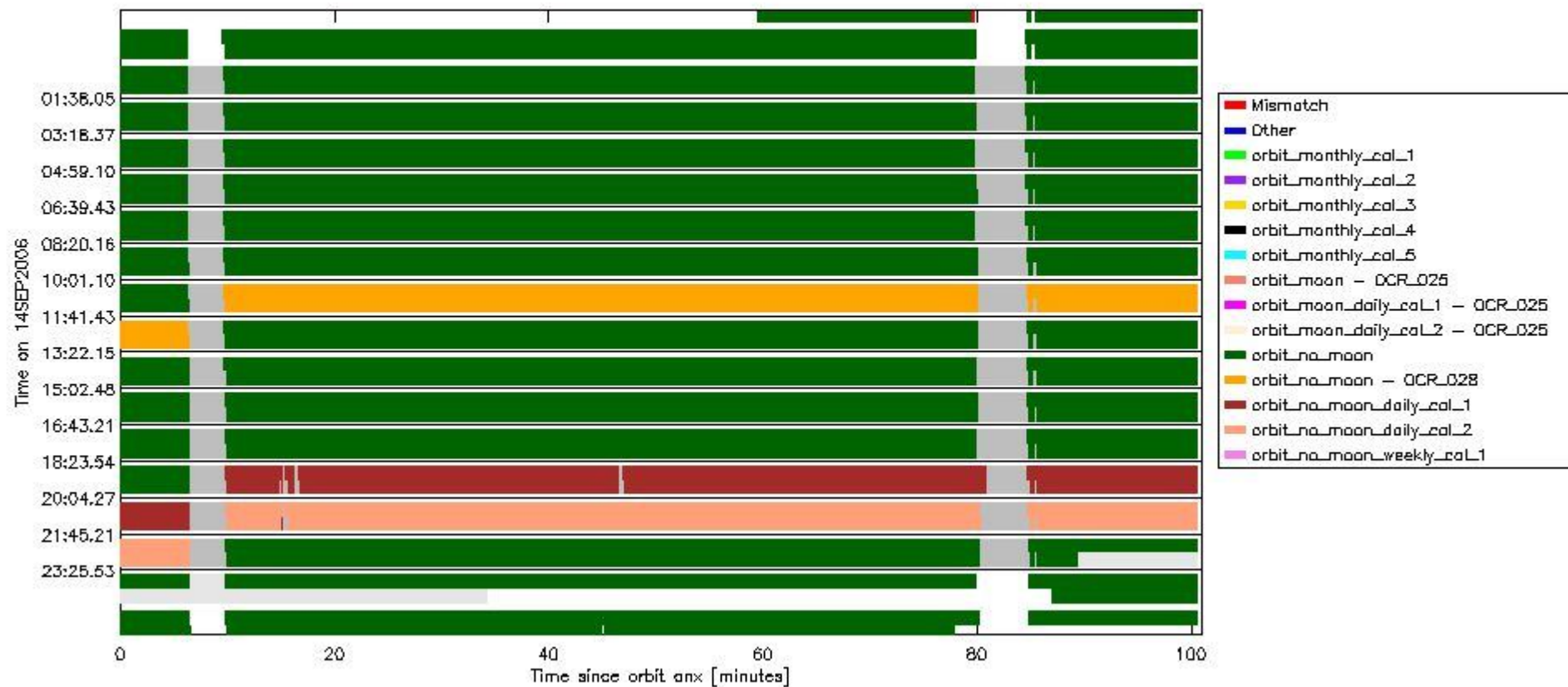


sciamachy\_daily\_report\_level0\_PFHS\_5\_37\_N\_20060914\_5.PNG

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 14SEP2006.  
 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\_PPHS\_5\_37\_N\_20060914\_6.PNG

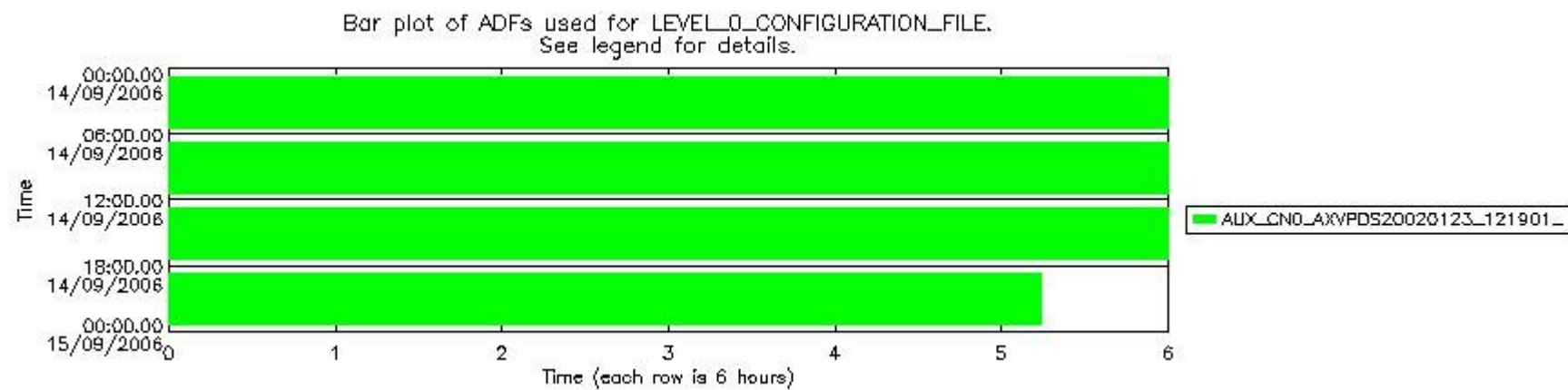
## 0.4 ADF monitoring

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

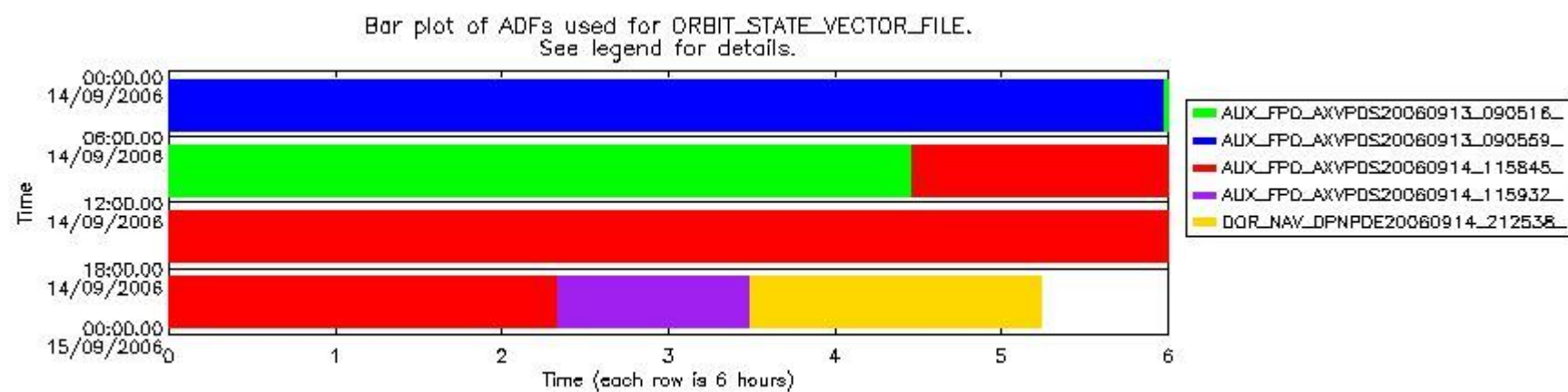
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

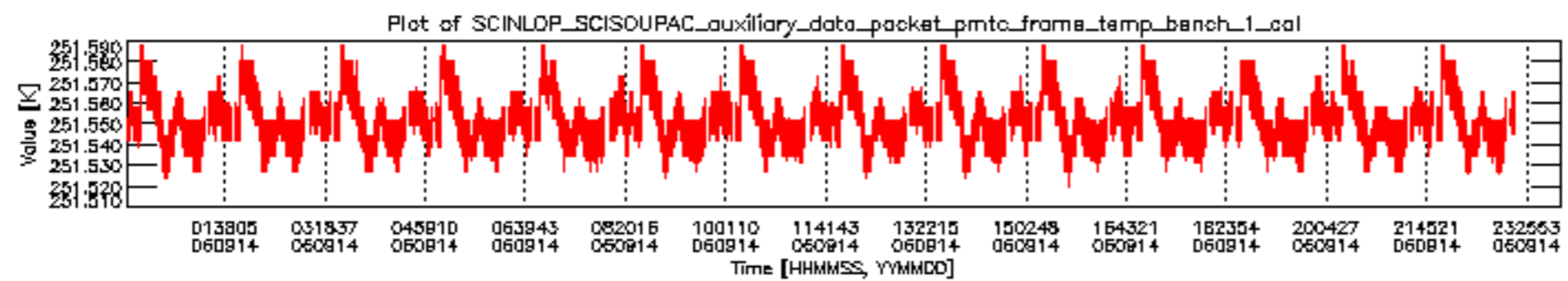
Number	ADF
	<b>CNO (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CNO_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20060913_090516_20060912_192714_20060922_205327
2	AUX_FPO_AXVPDS20060913_090559_20060912_192714_20060922_205327
3	AUX_FPO_AXVPDS20060914_115845_20060913_185537_20060923_202153
4	AUX_FPO_AXVPDS20060914_115932_20060913_185537_20060923_202153
5	DOR_NAV_OPNPDE20060914_212538_000060572051_00143_23744_0558.N1



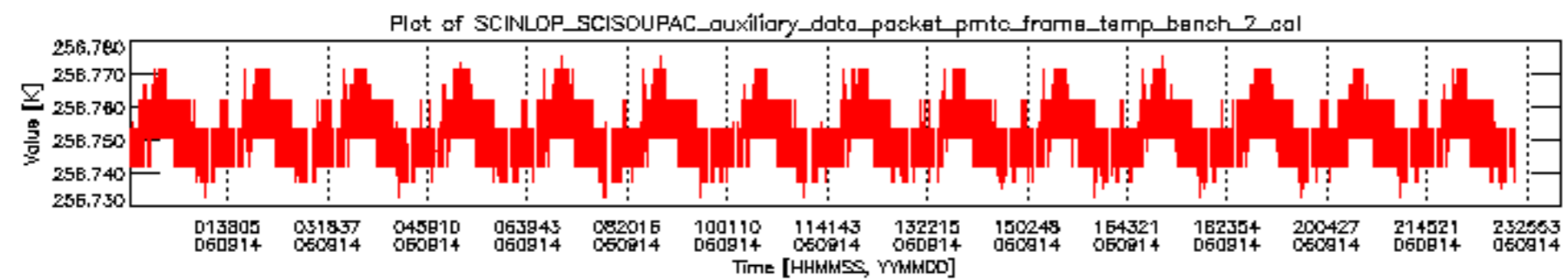
sciamachy\_daily\_report\_level0\_PPHS\_5\_37\_N\_20060914\_7.PNG

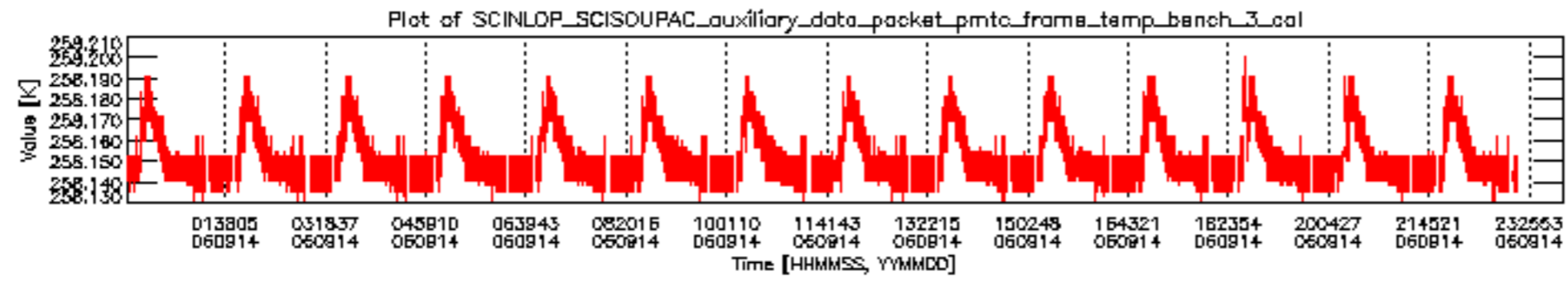


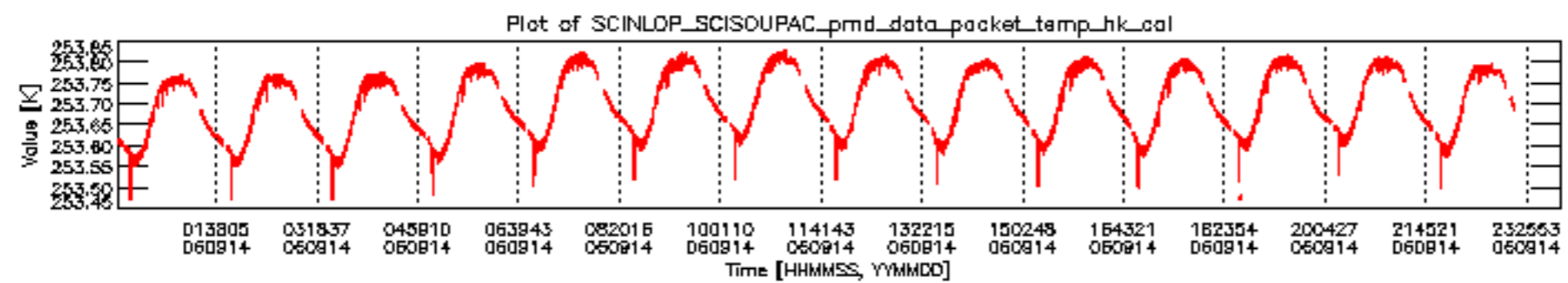
sciamachy\_daily\_report\_level0\_PPHS\_5\_37\_N\_20060914\_8.PNG

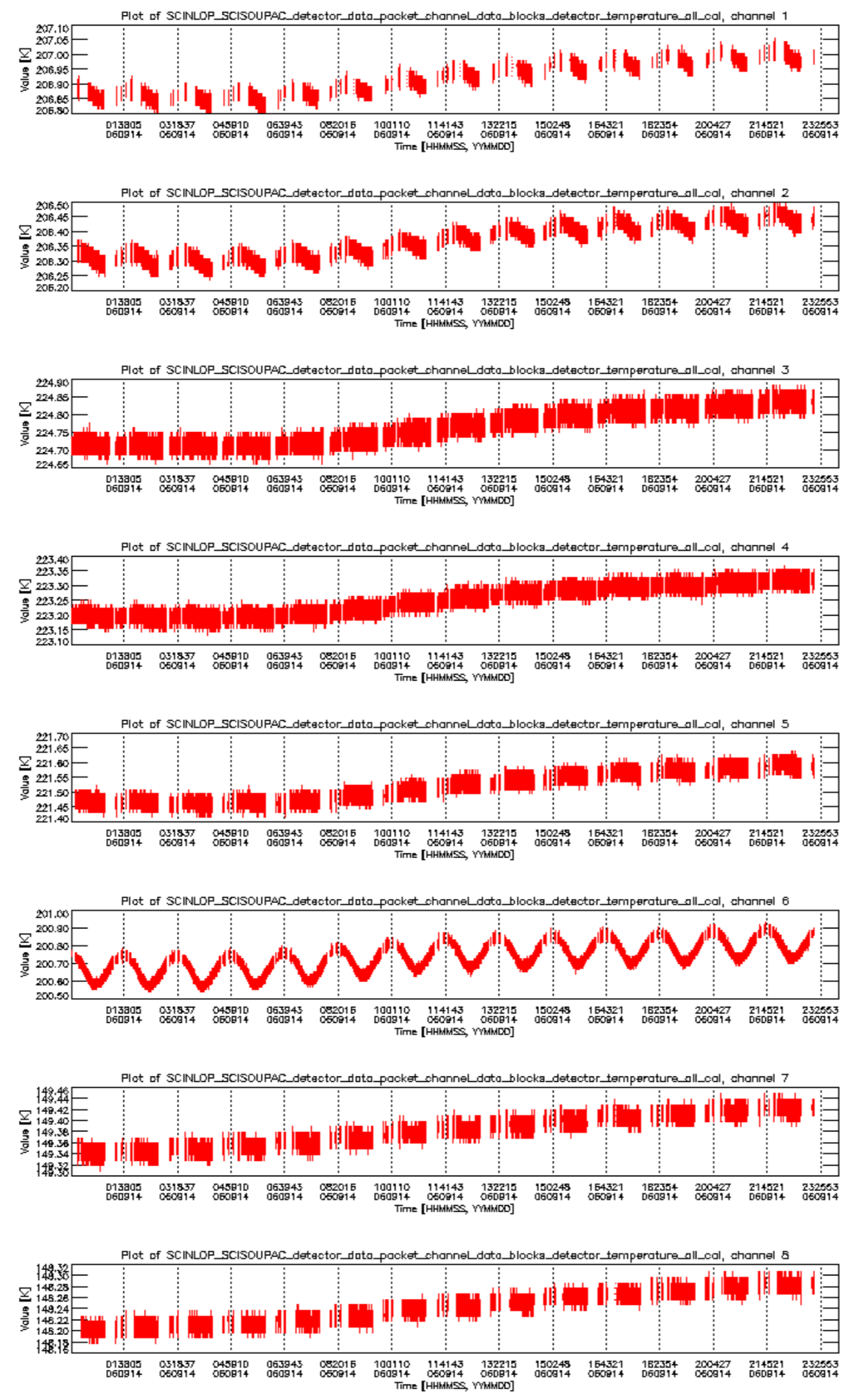


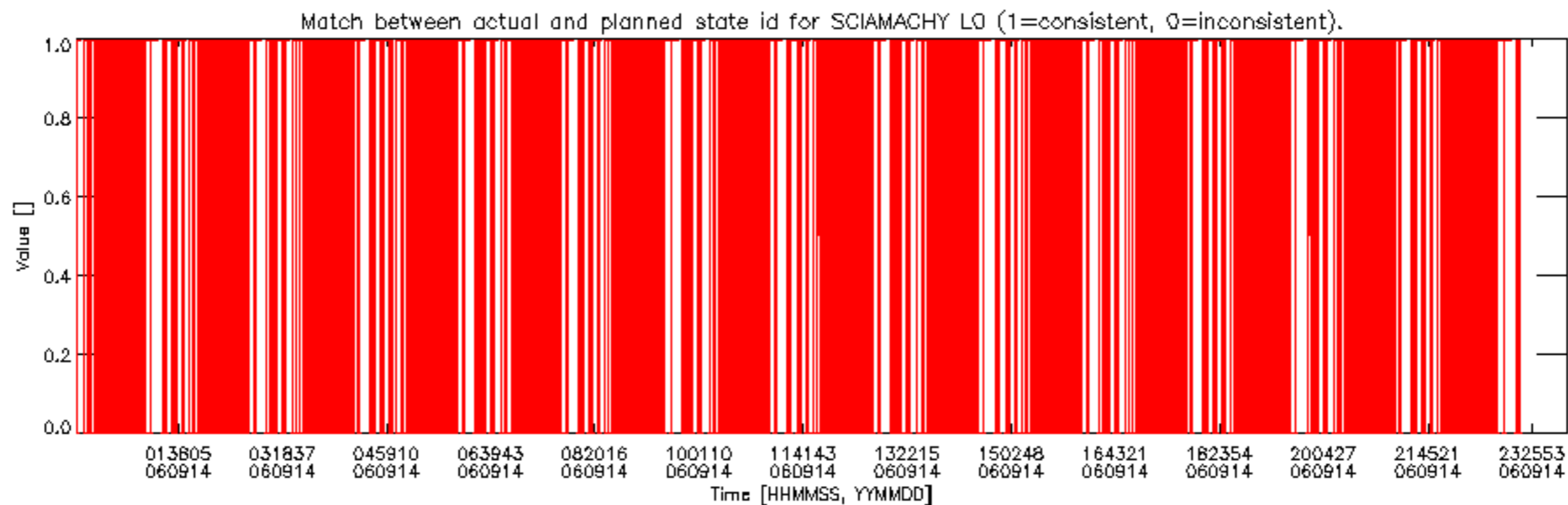
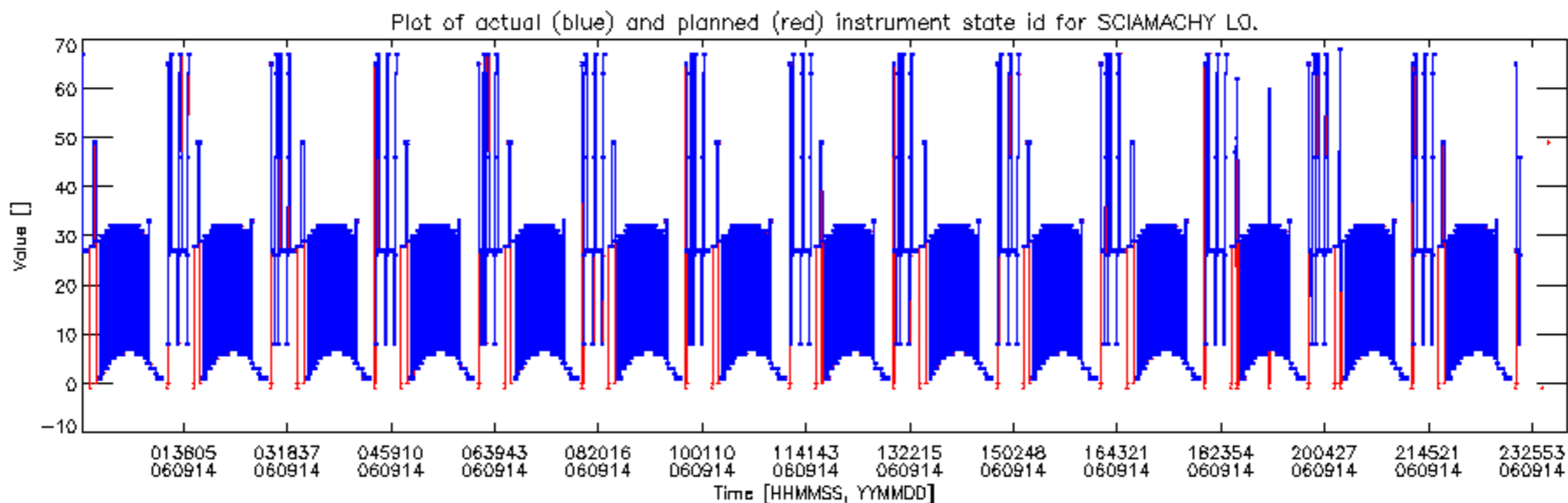




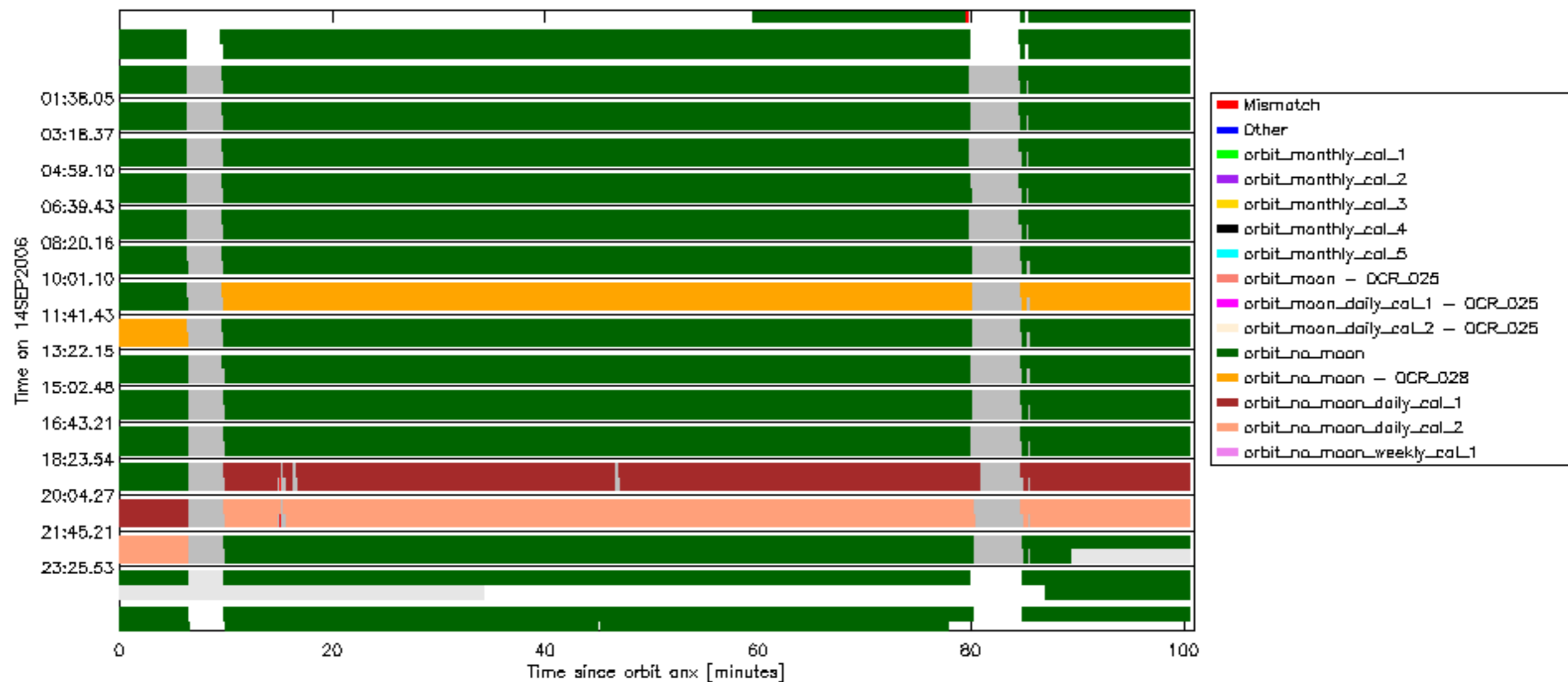


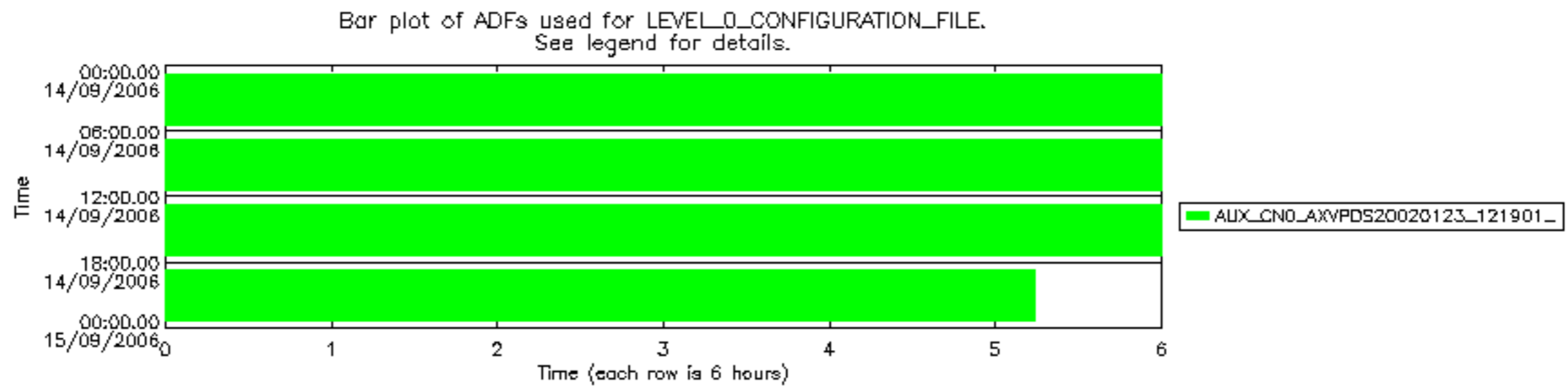






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 14SEP2006.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

