

## 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	09SEP2008 04:07:51
Data source version	KSPT_L0/4303-N
Processing scope for products	05SEP2008 00:00:00 to 06SEP2008 00:00:00
Start time of first product within scope	04SEP2008 23:53:17
Stop time of last product within scope	06SEP2008 01:04:35
Total number of level 0 products	17
Number of level 0 products with errors	4

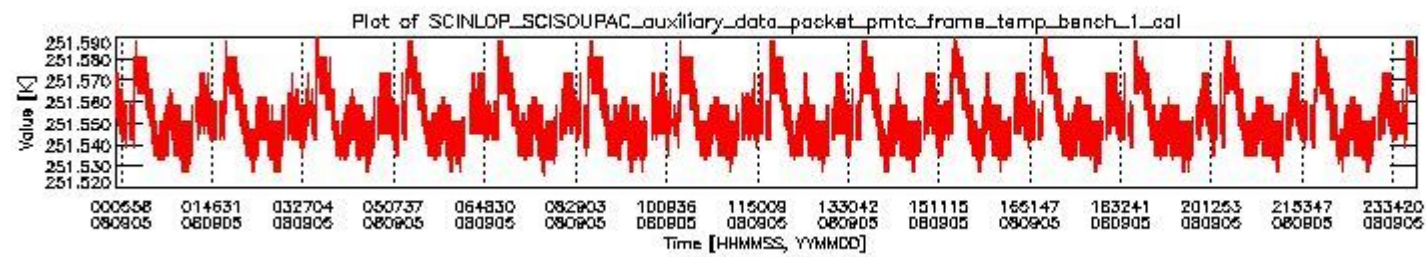
### 0.1.2 Summary per product

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

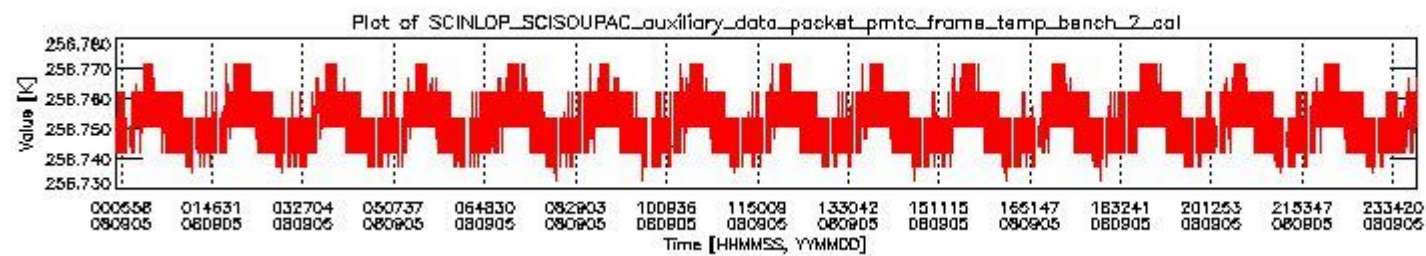
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080904_235317_000060382071_00445_34066_7449.N1	04SEP2008 23:53:17	05SEP2008 01:33:54	0	0	0	0	0
1	SCI_NL__OPNPDE20080905_013237_000047522071_00446_34067_7450.N1	05SEP2008 01:32:37	05SEP2008 02:51:49	0	0	0	0	0
2	SCI_NL__OPNPDE20080905_025041_000058562071_00447_34068_7451.N1	05SEP2008 02:50:41	05SEP2008 04:28:17	0	0	0	0	0
3	SCI_NL__OPNPDE20080905_042721_000060922071_00448_34069_7452.N1	05SEP2008 04:27:21	05SEP2008 06:08:54	0	0	0	0	0
4	SCI_NL__OPNPDK20080905_060854_000040462071_00449_34070_9249.N1	05SEP2008 06:08:54	05SEP2008 07:16:19	0	0	0	0	0
5	SCI_NL__OPNPDK20080905_071619_000060922071_00450_34071_9250.N1	05SEP2008 07:16:19	05SEP2008 08:57:51	0	0	0	0	0
6	SCI_NL__OPNPDK20080905_085751_000060492071_00451_34072_9251.N1	05SEP2008 08:57:51	05SEP2008 10:38:40	0	0	0	0	0
7	SCI_NL__OPNPDK20080905_103840_000058992071_00452_34073_9252.N1	05SEP2008 10:38:40	05SEP2008 12:17:00	0	0	0	0	0
8	SCI_NL__OPNPDK20080905_121700_000059252071_00453_34074_9253.N1	05SEP2008 12:17:00	05SEP2008 13:55:44	0	0	0	0	0
9	SCI_NL__OPNPDK20080905_135544_000058432071_00454_34075_9254.N1	05SEP2008 13:55:44	05SEP2008 15:33:08	0	0	0	0	0
10	SCI_NL__OPNPDK20080905_153103_000060562071_00455_34076_9255.N1	05SEP2008 15:31:03	05SEP2008 17:12:00	1	1	0	0	0
11	SCI_NL__OPNPDK20080905_171104_000059682071_00456_34077_9258.N1	05SEP2008 17:11:04	05SEP2008 18:50:32	1	1	0	0	1
12	SCI_NL__OPNPDK20080905_184936_000011072071_00457_34078_9259.N1	05SEP2008 18:49:36	05SEP2008 19:08:03	1	1	0	0	0
13	SCI_NL__OPNPDK20080905_190803_000048542071_00457_34078_9260.N1	05SEP2008 19:08:03	05SEP2008 20:28:57	1	1	0	0	0
14	SCI_NL__OPNPDE20080905_202801_000043572071_00458_34079_7453.N1	05SEP2008 20:28:01	05SEP2008 21:40:38	0	0	0	0	0
15	SCI_NL__OPNPDE20080905_213955_000061562071_00458_34079_7454.N1	05SEP2008 21:39:55	05SEP2008 23:22:31	0	0	0	0	0
16	SCI_NL__OPNPDE20080905_232023_000062522071_00459_34080_7455.N1	05SEP2008 23:20:23	06SEP2008 01:04:35	0	0	0	0	0

## 0.2 Product Quality Indicators

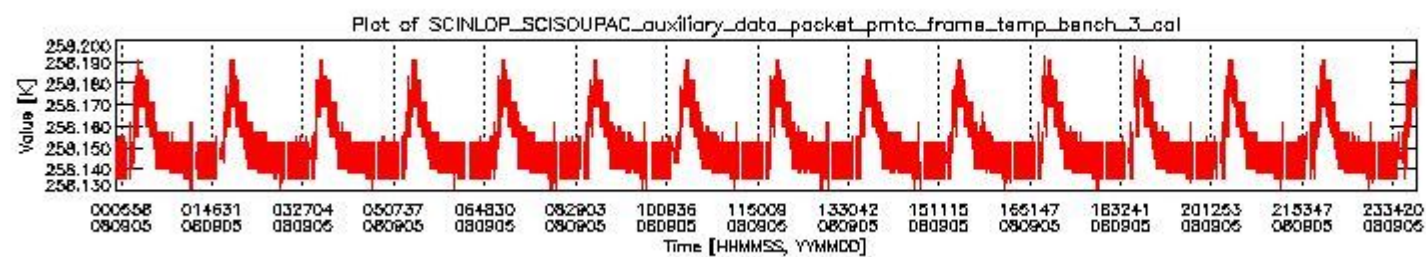
This section shows information about product quality, currently temperatures.



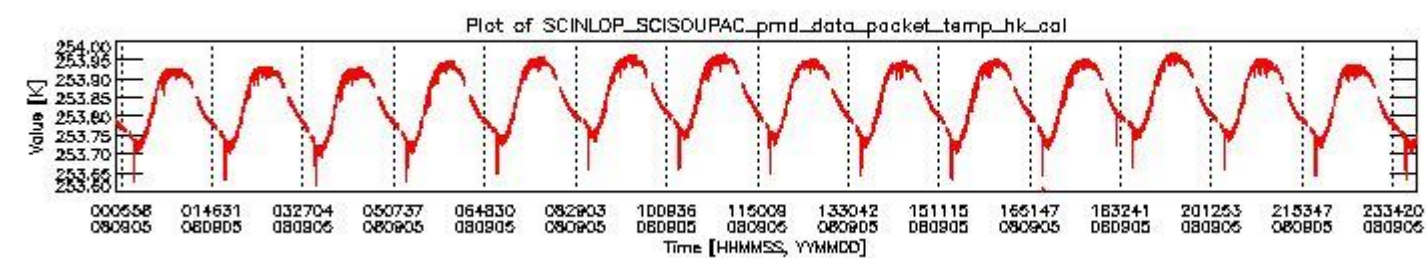
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080905\_0.PNG



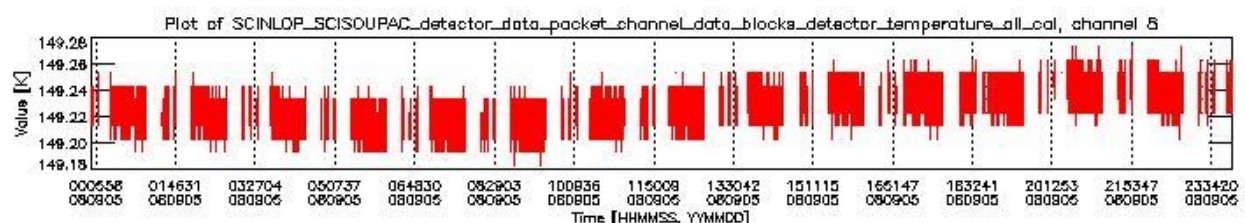
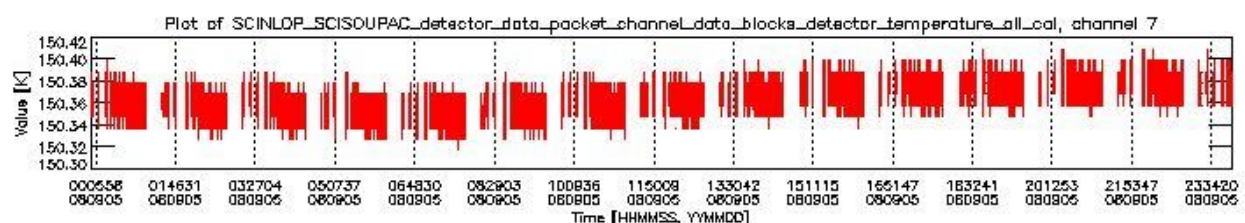
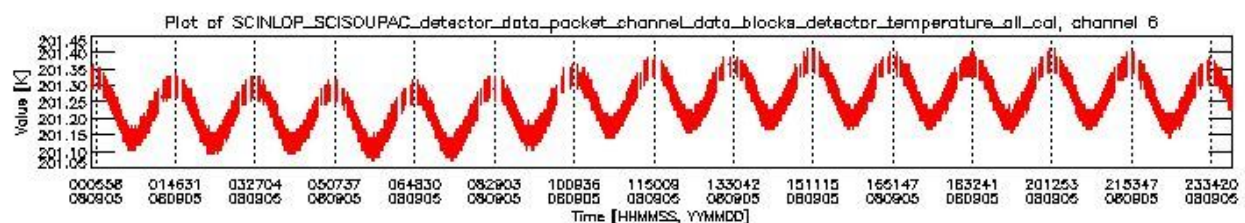
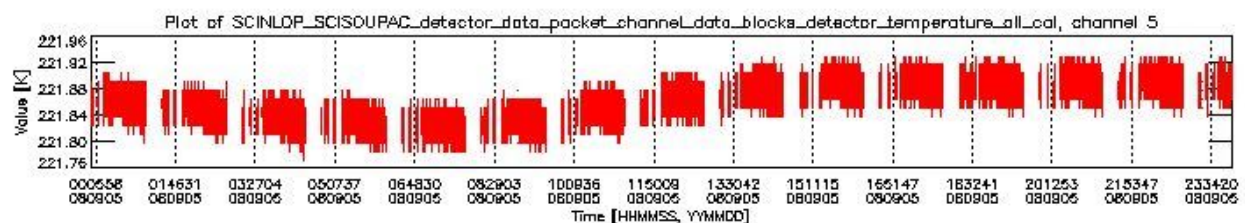
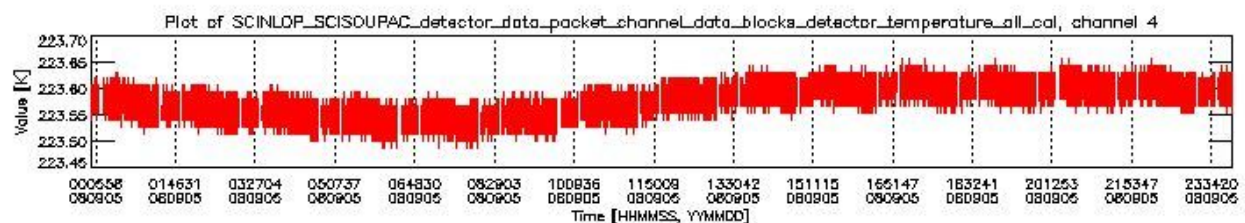
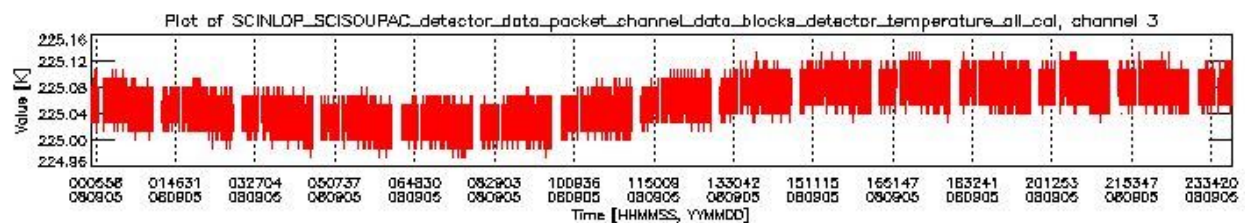
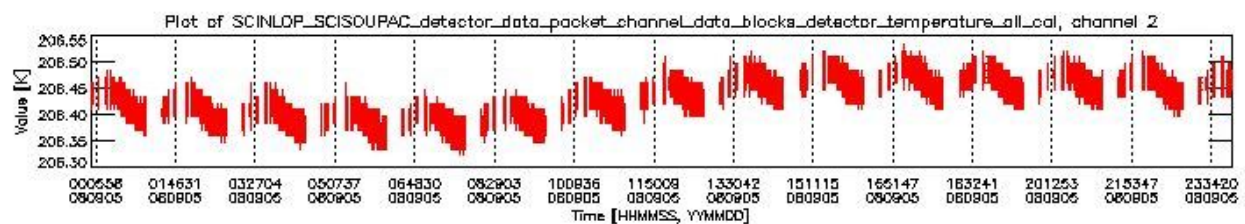
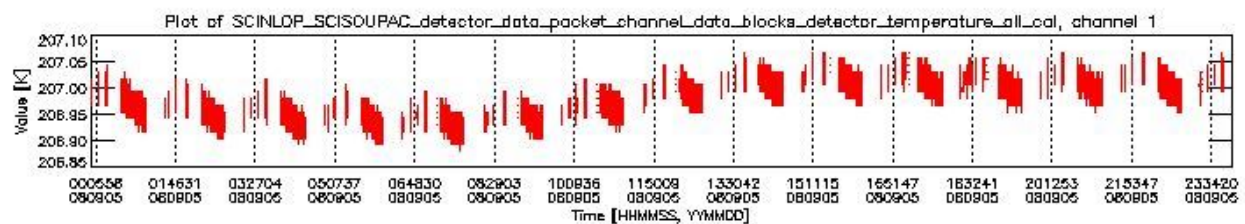
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080905\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080905\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080905\_3.PNG

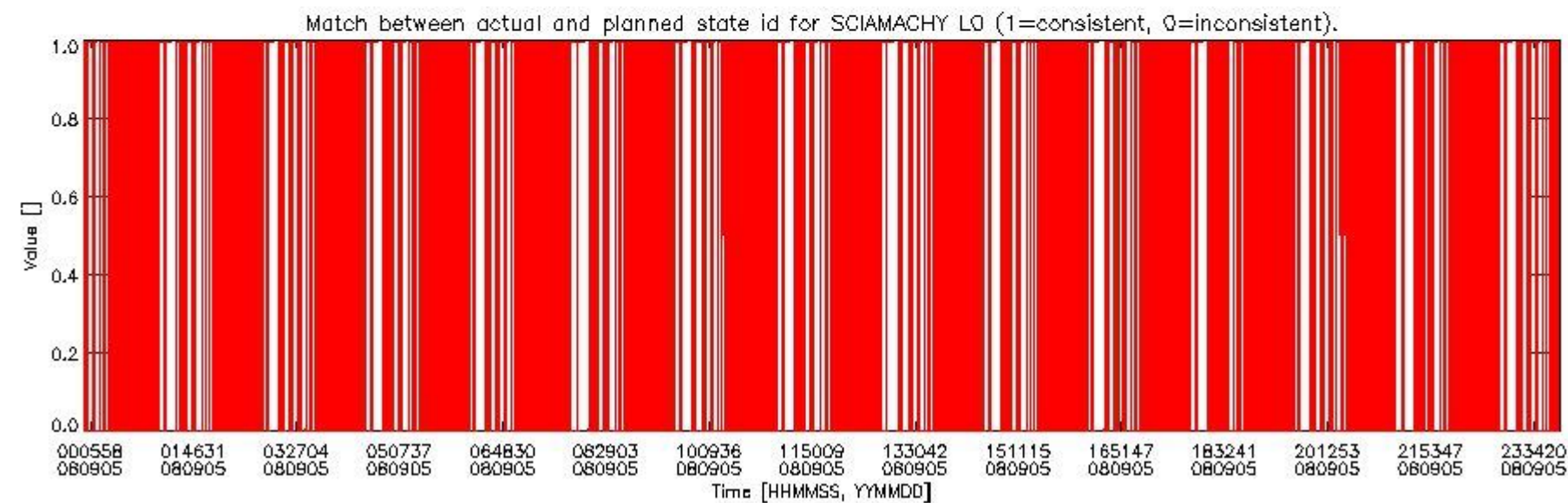
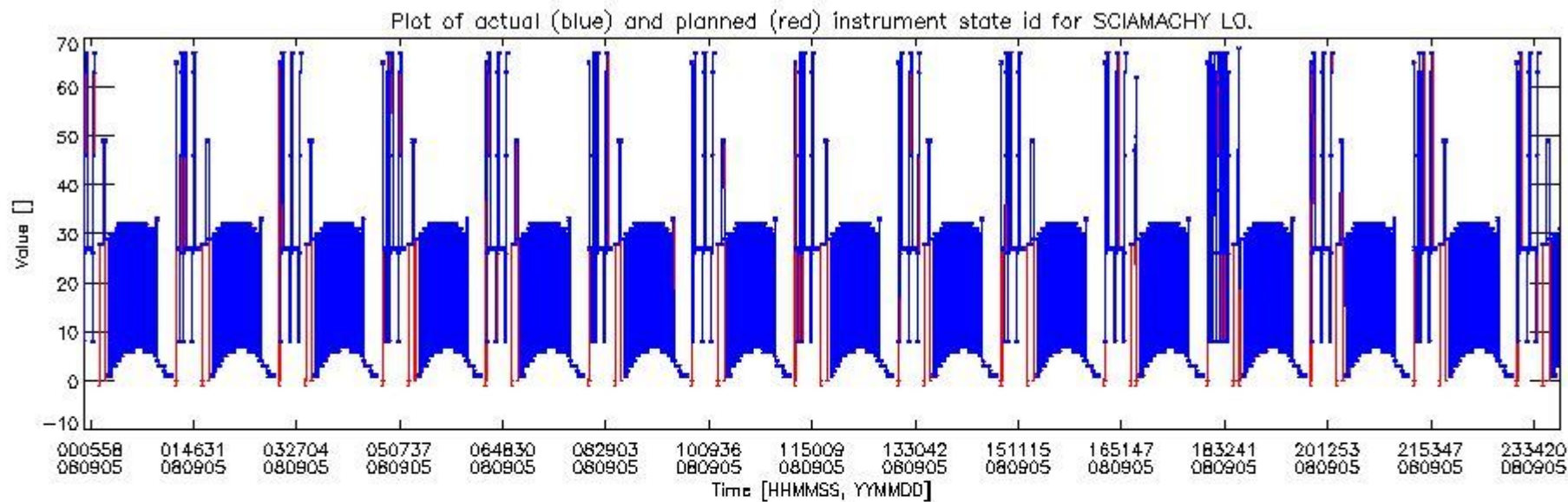


### 0.3 State monitoring

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: **53126**

#	Actual time	Actual value	Planned time	Planned value
0	05SEP2008 00:00:00.276281	26	05SEP2008 00:00:00.276281	8
1	05SEP2008 00:00:00.776298	26	05SEP2008 00:00:00.776298	8
2	05SEP2008 00:00:01.276276	26	05SEP2008 00:00:01.276276	8
3	05SEP2008 00:00:01.776293	26	05SEP2008 00:00:01.776293	8
4	05SEP2008 00:00:02.276310	26	05SEP2008 00:00:02.276310	8
5	05SEP2008 00:00:02.776287	26	05SEP2008 00:00:02.776287	8
6	05SEP2008 00:00:03.151301	26	05SEP2008 00:00:03.151301	8
7	05SEP2008 00:00:03.276305	26	05SEP2008 00:00:03.276305	8
8	05SEP2008 00:00:03.776282	26	05SEP2008 00:00:03.776282	8
9	05SEP2008 00:00:04.276299	26	05SEP2008 00:00:04.276299	8
10	05SEP2008 00:00:26.713796	46	05SEP2008 00:00:26.713796	26
11	05SEP2008 00:00:27.338818	46	05SEP2008 00:00:27.338818	26
12	05SEP2008 00:00:27.838795	46	05SEP2008 00:00:27.838795	26
13	05SEP2008 00:00:28.338812	46	05SEP2008 00:00:28.338812	26
14	05SEP2008 00:00:28.838789	46	05SEP2008 00:00:28.838789	26
15	05SEP2008 00:00:29.338807	46	05SEP2008 00:00:29.338807	26
16	05SEP2008 00:00:29.838784	46	05SEP2008 00:00:29.838784	26
17	05SEP2008 00:00:30.338801	46	05SEP2008 00:00:30.338801	26
18	05SEP2008 00:00:30.838819	46	05SEP2008 00:00:30.838819	26
19	05SEP2008 00:00:31.338796	46	05SEP2008 00:00:31.338796	26
	...	...	...	...

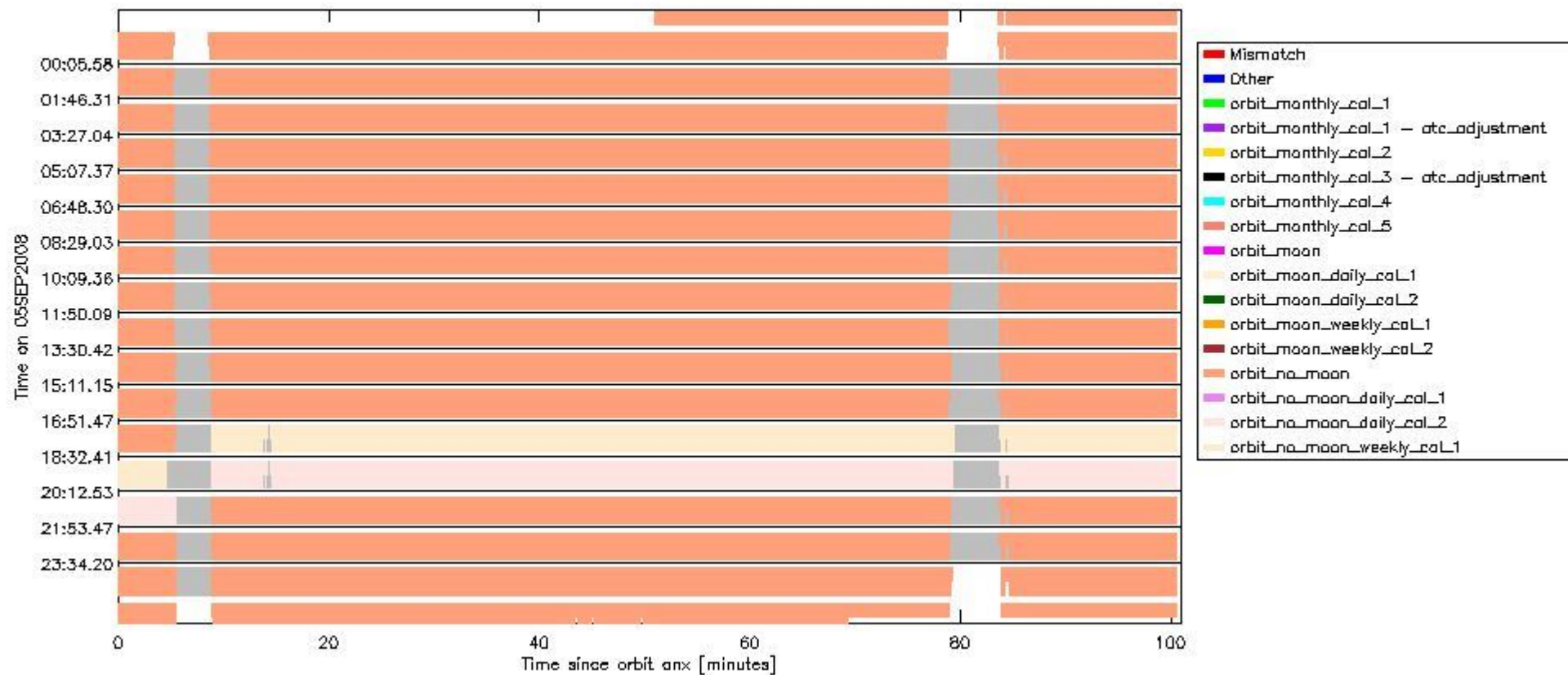


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080905\_5.PNG

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 Q5SEP2008.  
 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\_20080905\_6.PNG

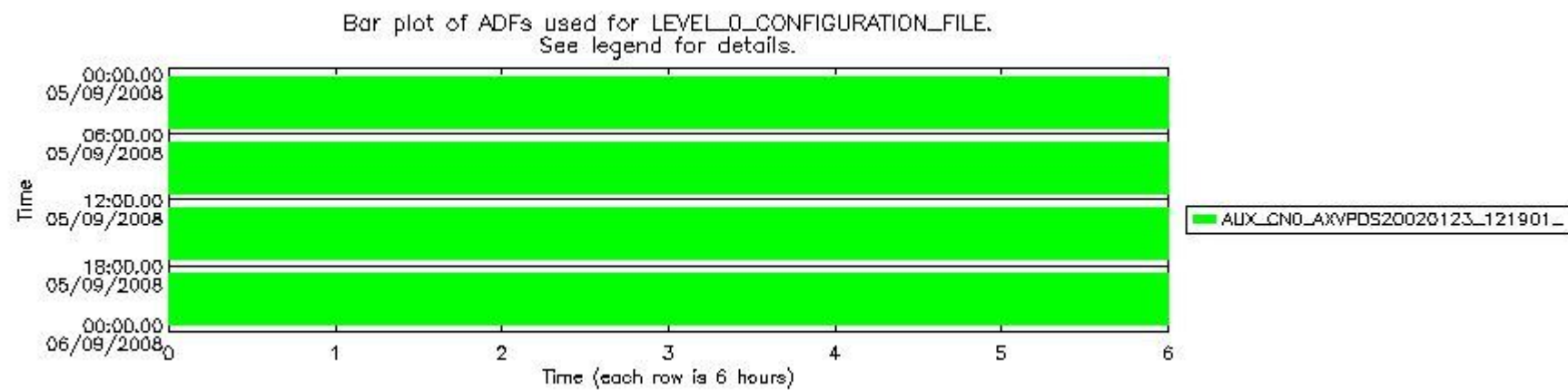
## 0.4 ADF monitoring

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

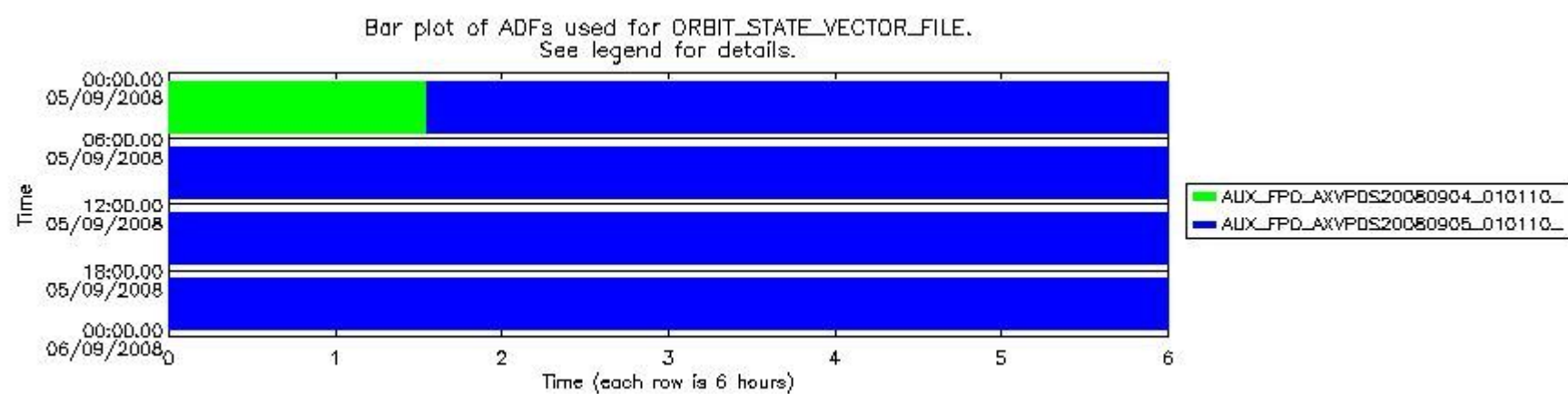
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

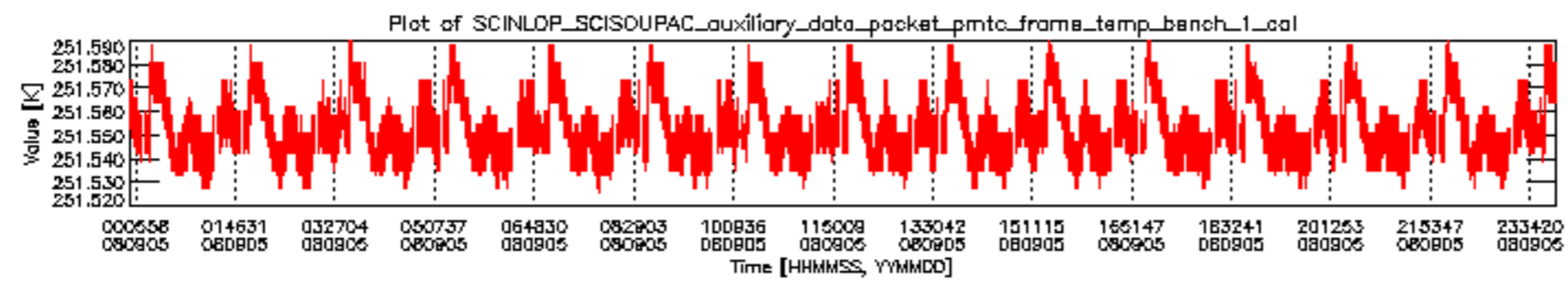
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20080904_010110_20080903_193545_20080913_210158
2	AUX_FPO_AXVPDS20080905_010110_20080904_190408_20080914_203020



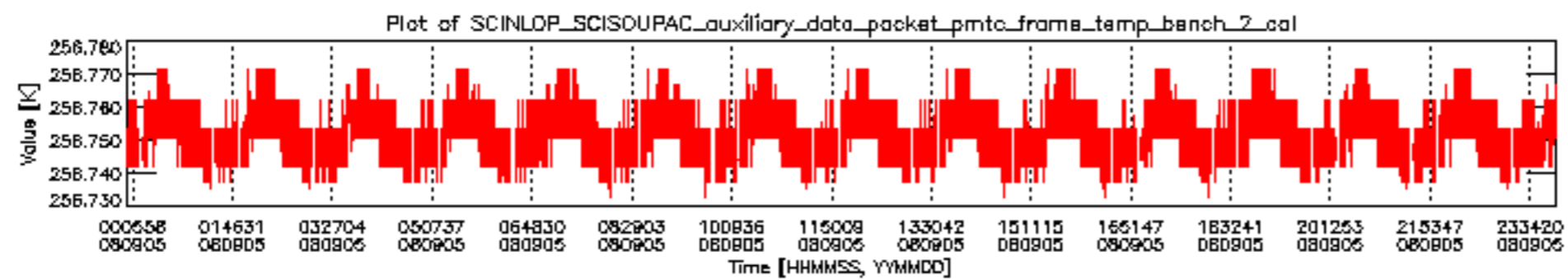
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080905\_7.PNG

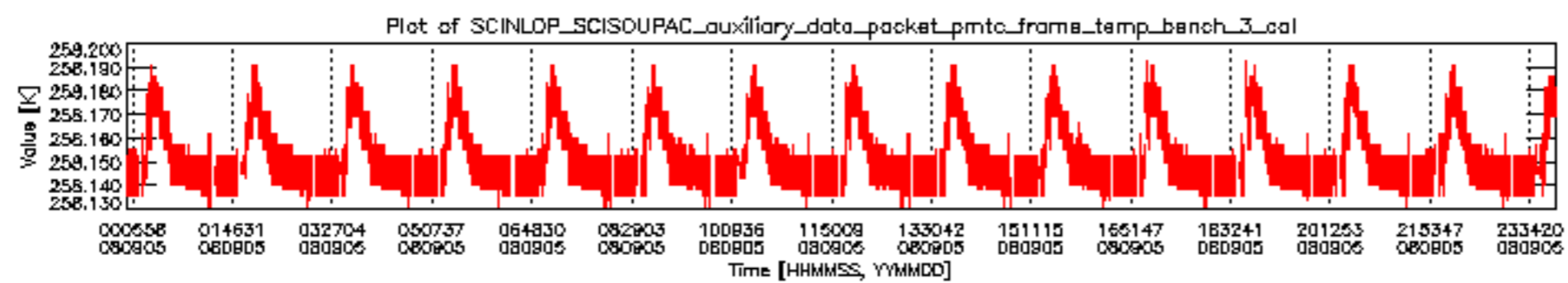


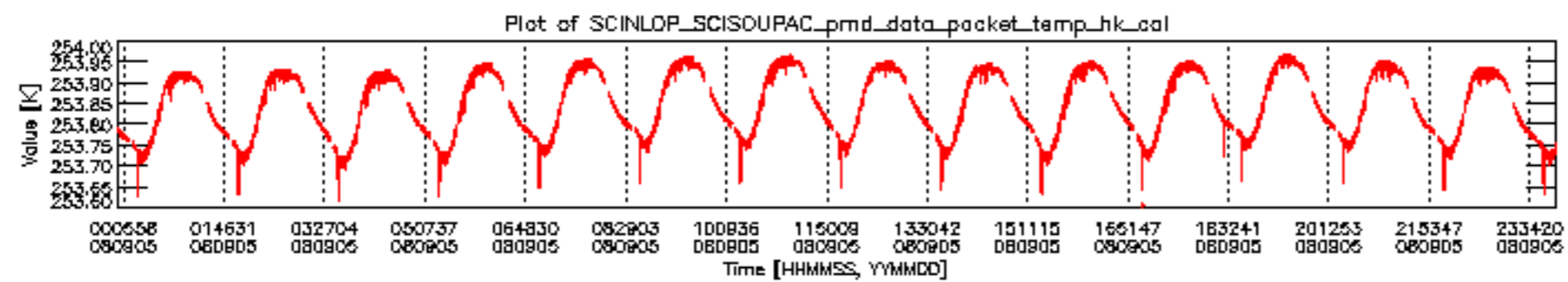
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080905\_8.PNG

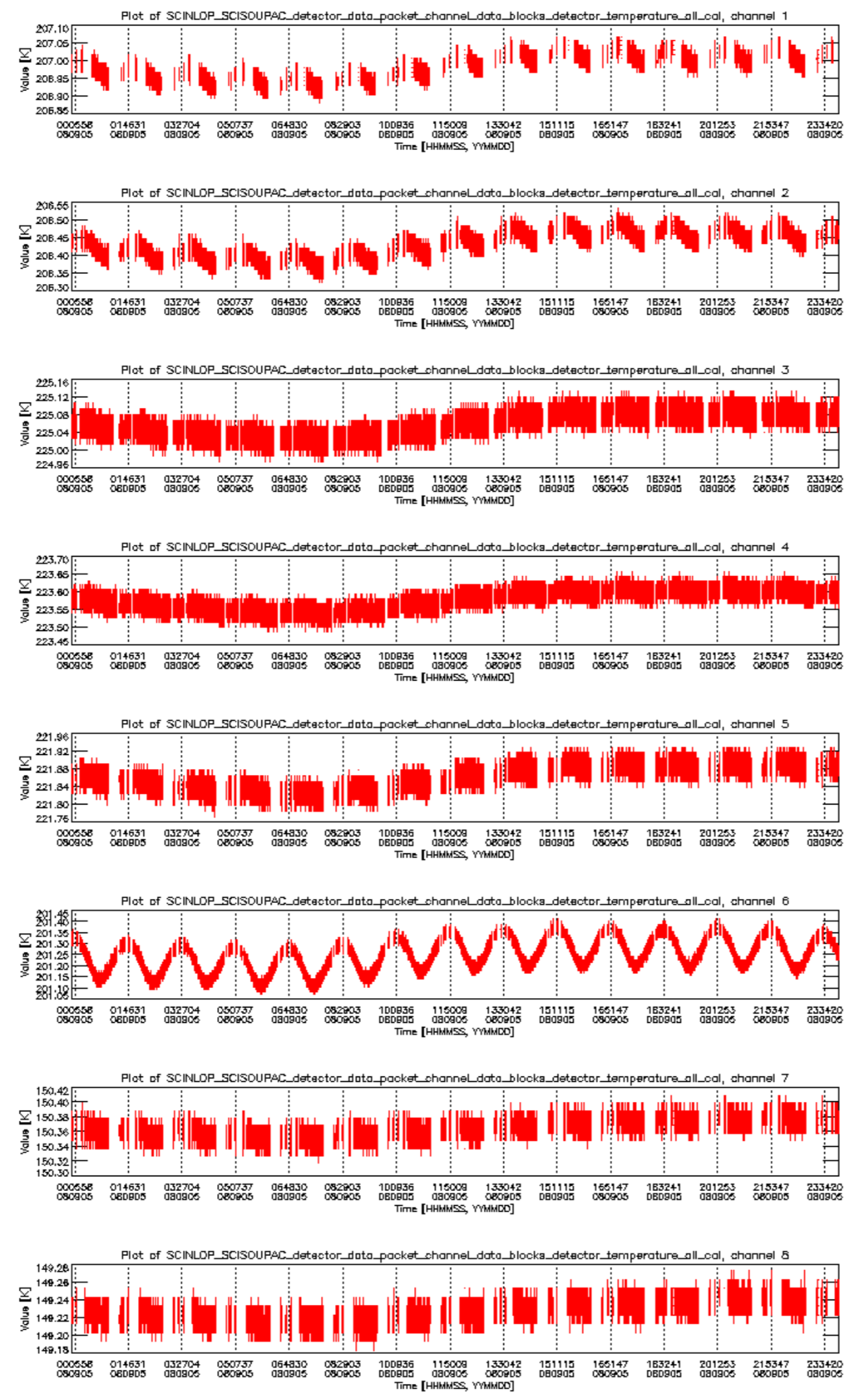


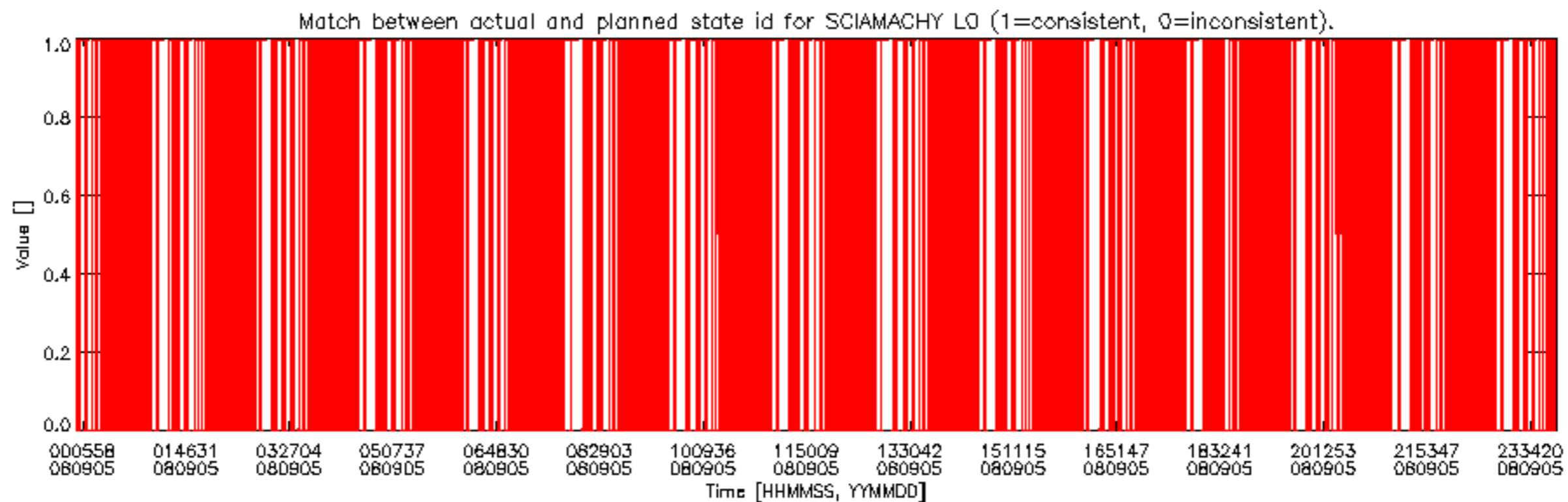
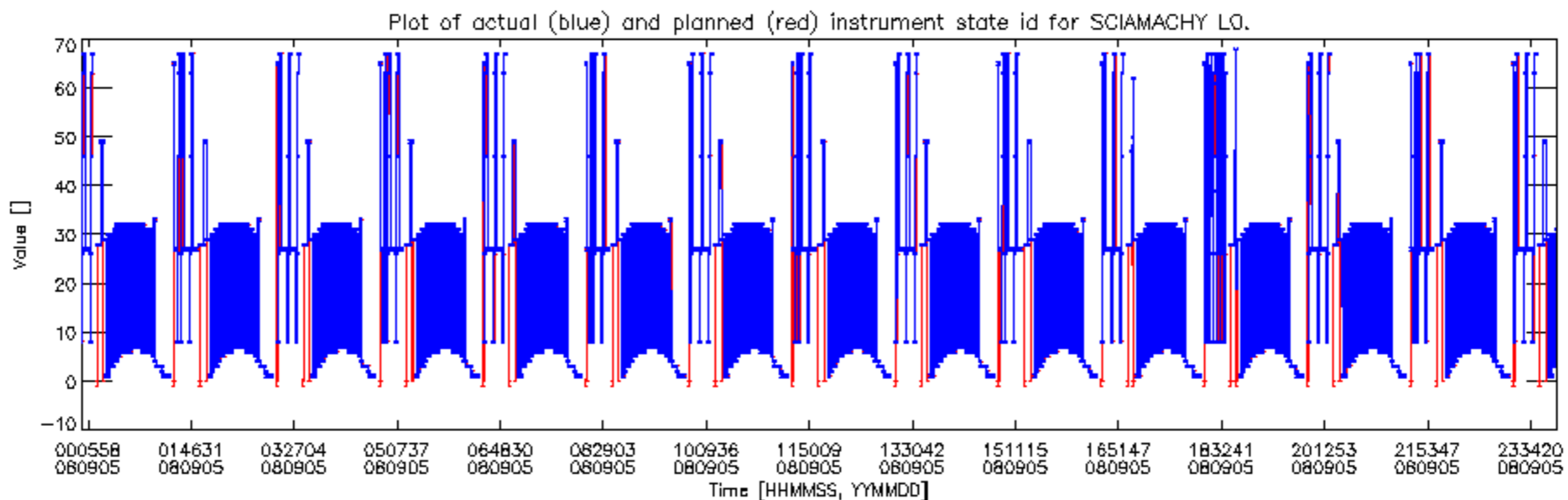












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 05SEP2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

