

## 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	29JAN2009 05:59:51
Data source version	KSPT_L0/4303-N
Processing scope for products	25JAN2009 00:00:00 to 26JAN2009 00:00:00
Start time of first product within scope	24JAN2009 22:54:48
Stop time of last product within scope	25JAN2009 23:56:27
Total number of level 0 products	13
Number of level 0 products with errors	1

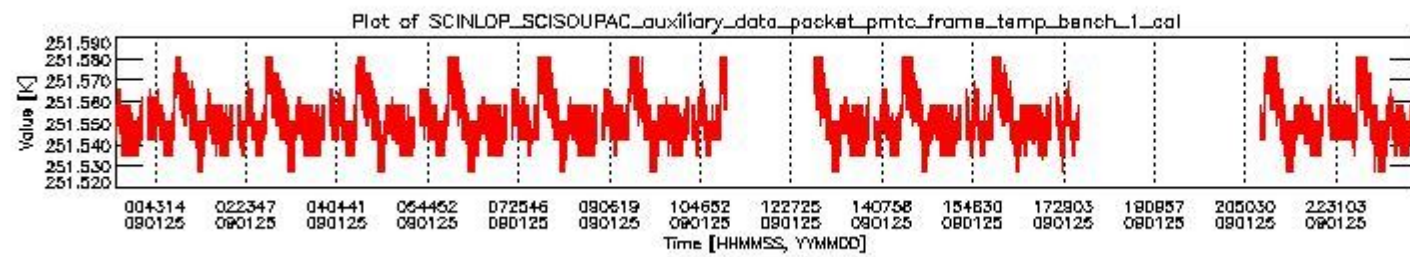
### 0.1.2 Summary per product

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

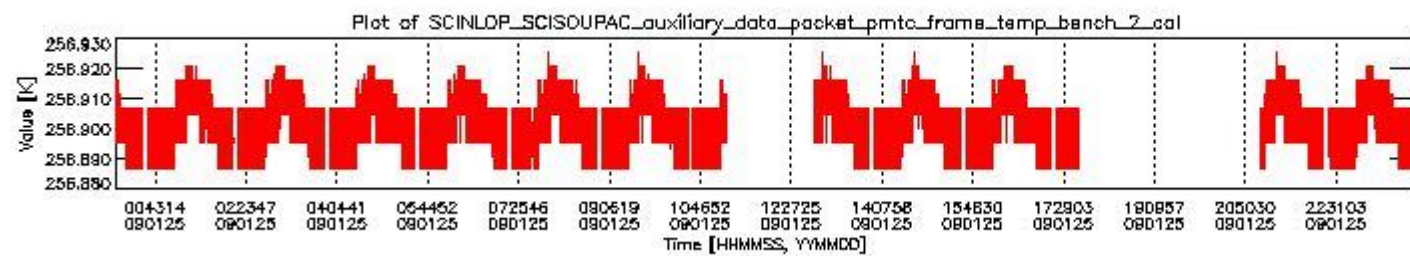
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090124_225448_000056012075_00473_36098_8360.N1	24JAN2009 22:54:48	25JAN2009 00:28:09	0	0	0	0	0
1	SCI_NL__OPNPDE20090125_003523_000055892075_00474_36099_8361.N1	25JAN2009 00:35:23	25JAN2009 02:08:32	0	0	0	0	0
2	SCI_NL__OPNPDE20090125_020832_000047962075_00475_36100_8362.N1	25JAN2009 02:08:32	25JAN2009 03:28:28	0	0	0	0	0
3	SCI_NL__OPNPDE20090125_032732_000058432075_00476_36101_8363.N1	25JAN2009 03:27:32	25JAN2009 05:04:55	0	0	0	0	0
4	SCI_NL__OPNPDE20090125_050346_000061042075_00477_36102_8364.N1	25JAN2009 05:03:46	25JAN2009 06:45:31	0	0	0	0	0
5	SCI_NL__OPNPDK20090125_064531_000039762075_00478_36103_0543.N1	25JAN2009 06:45:31	25JAN2009 07:51:47	0	0	0	0	0
6	SCI_NL__OPNPDK20090125_075051_000062282075_00479_36104_0544.N1	25JAN2009 07:50:51	25JAN2009 09:34:39	1	1	0	0	0
7	SCI_NL__OPNPDK20090125_093235_000061472075_00480_36105_0545.N1	25JAN2009 09:32:35	25JAN2009 11:15:02	0	0	0	0	0
8	SCI_NL__OPNPDK20090125_125142_000059242075_00482_36107_0547.N1	25JAN2009 12:51:42	25JAN2009 14:30:25	0	0	0	0	0
9	SCI_NL__OPNPDK20090125_142807_000061742075_00483_36108_0548.N1	25JAN2009 14:28:07	25JAN2009 16:11:01	0	0	0	0	0
10	SCI_NL__OPNPDK20090125_160843_000058672075_00484_36109_0549.N1	25JAN2009 16:08:43	25JAN2009 17:46:30	0	0	0	0	0
11	SCI_NL__OPNPDE20090125_210645_000041332075_00487_36112_8365.N1	25JAN2009 21:06:45	25JAN2009 22:15:39	0	0	0	0	0
12	SCI_NL__OPNPDE20090125_222306_000056002075_00487_36112_8366.N1	25JAN2009 22:23:06	25JAN2009 23:56:27	0	0	0	0	0

## 0.2 Product Quality Indicators

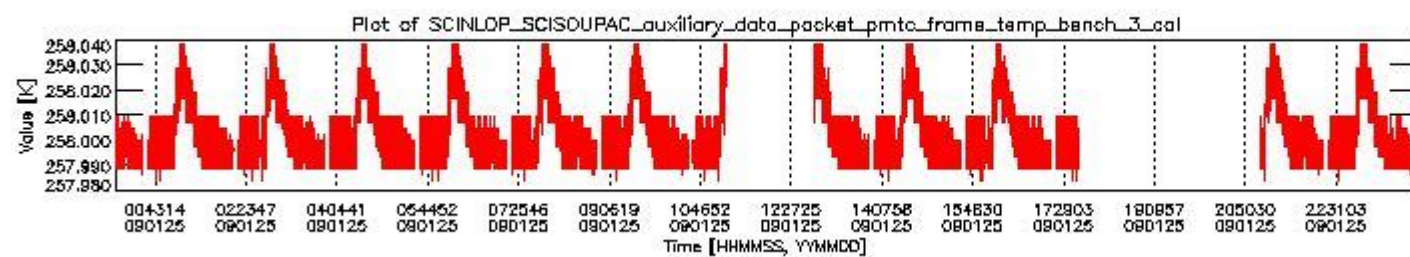
This section shows information about product quality, currently temperatures.



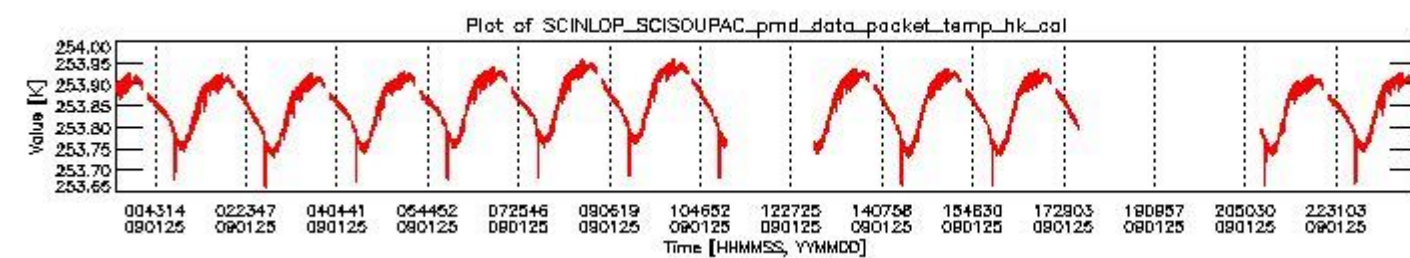
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090125\_0.PNG



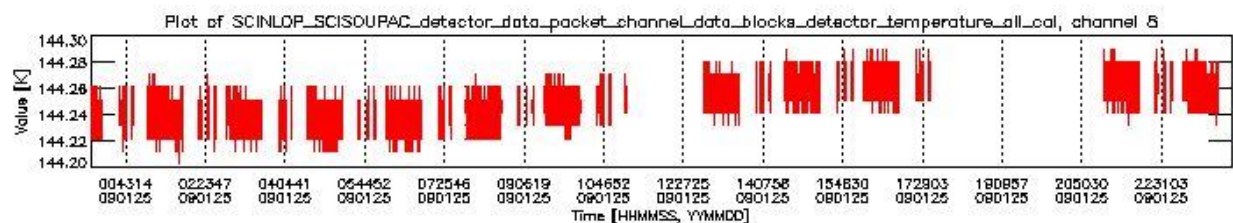
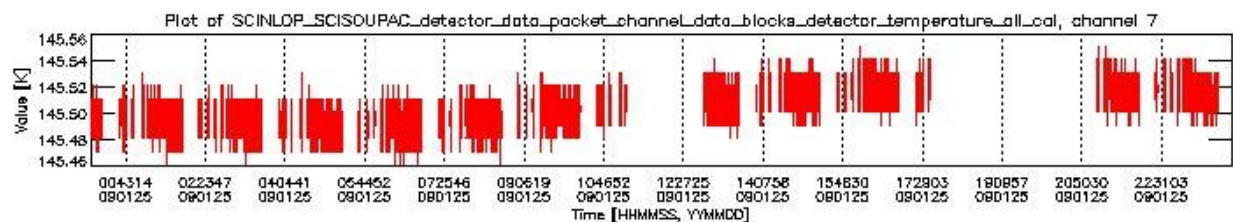
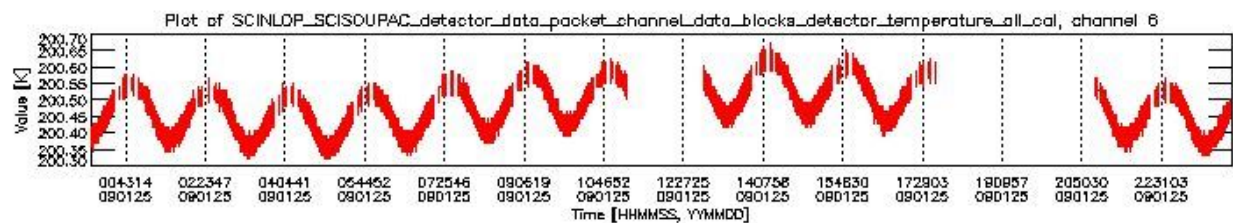
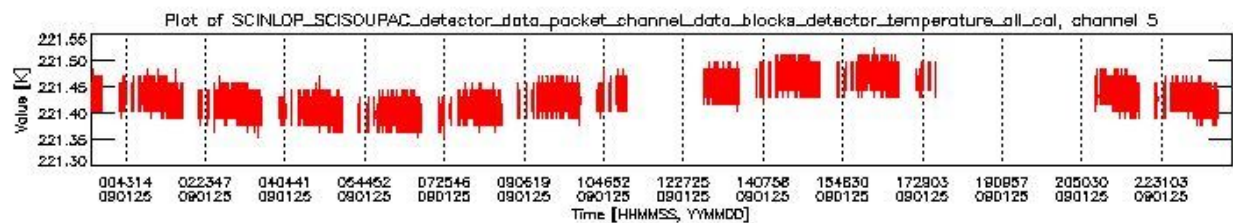
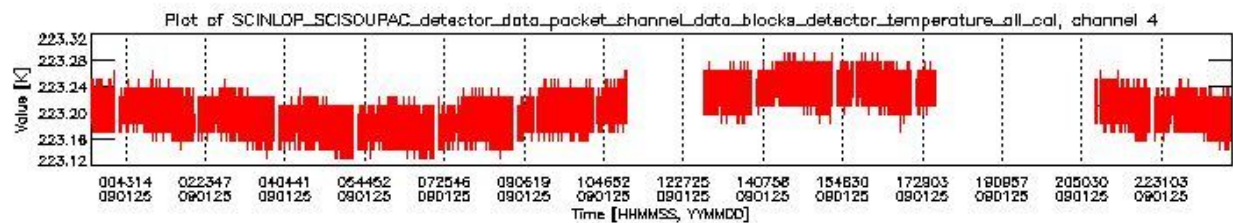
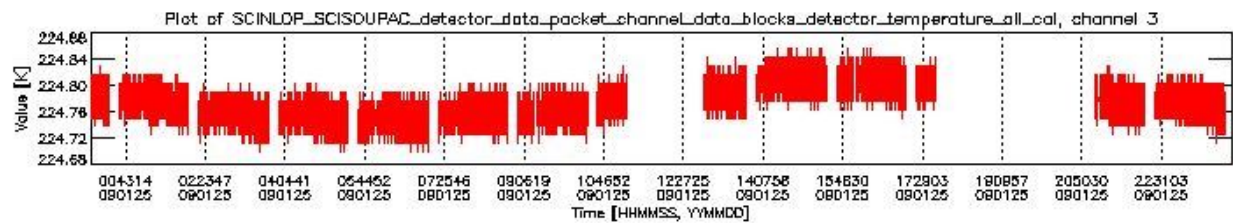
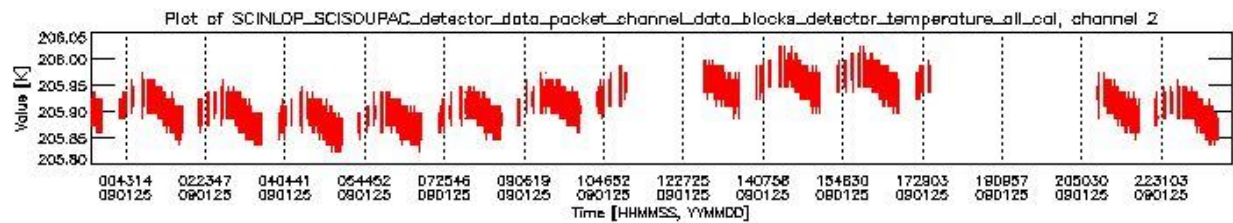
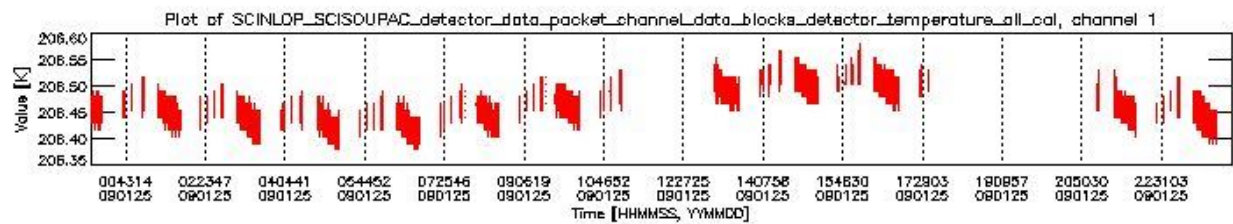
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090125\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090125\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090125\_3.PNG

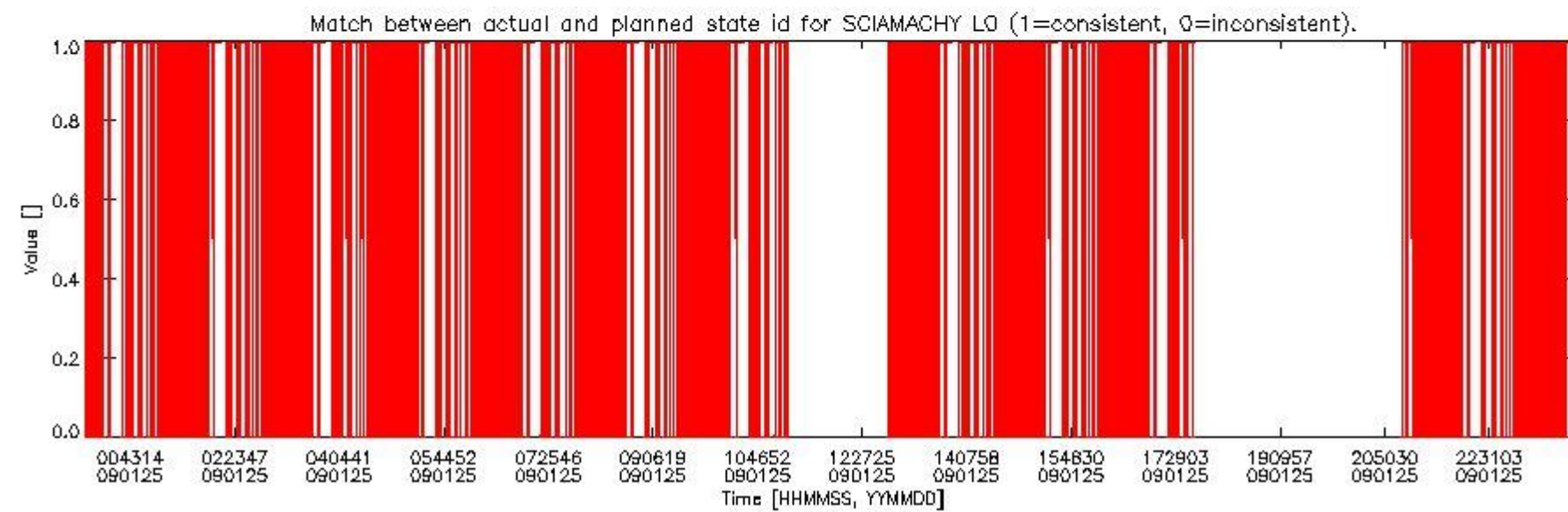
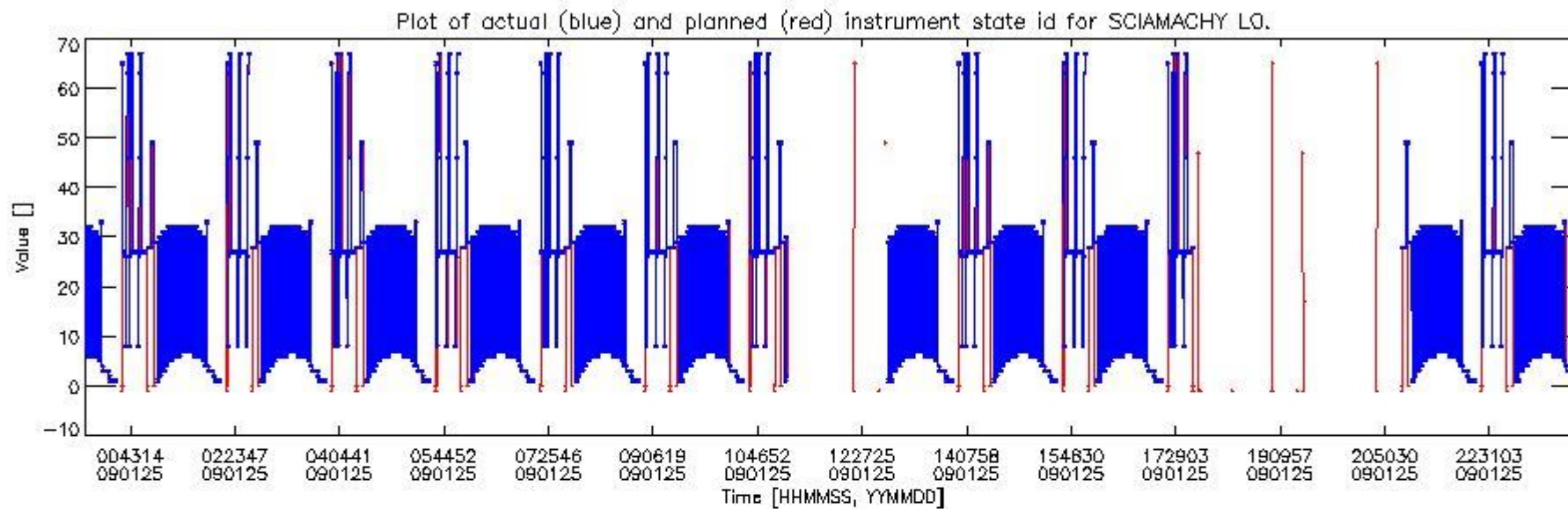


### 0.3 State monitoring

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: **47763**

#	Actual time	Actual value	Planned time	Planned value
0	25JAN2009 00:00:08.689392	32	25JAN2009 00:00:08.689392	7
1	25JAN2009 00:00:09.314413	32	25JAN2009 00:00:09.314413	7
2	25JAN2009 00:00:09.689426	32	25JAN2009 00:00:09.689426	7
3	25JAN2009 00:00:10.064399	32	25JAN2009 00:00:10.064399	7
4	25JAN2009 00:00:10.626899	32	25JAN2009 00:00:10.626899	7
5	25JAN2009 00:00:11.001912	32	25JAN2009 00:00:11.001912	7
6	25JAN2009 00:00:11.376925	32	25JAN2009 00:00:11.376925	7
7	25JAN2009 00:00:11.751898	32	25JAN2009 00:00:11.751898	7
8	25JAN2009 00:00:12.314397	32	25JAN2009 00:00:12.314397	7
9	25JAN2009 00:00:12.689410	32	25JAN2009 00:00:12.689410	7
10	25JAN2009 00:00:13.064423	32	25JAN2009 00:00:13.064423	7
11	25JAN2009 00:00:13.439396	32	25JAN2009 00:00:13.439396	7
12	25JAN2009 00:00:13.689405	32	25JAN2009 00:00:13.689405	7
13	25JAN2009 00:00:14.001895	32	25JAN2009 00:00:14.001895	7
14	25JAN2009 00:00:14.376909	32	25JAN2009 00:00:14.376909	7
15	25JAN2009 00:00:14.751922	32	25JAN2009 00:00:14.751922	7
16	25JAN2009 00:00:15.126894	32	25JAN2009 00:00:15.126894	7
17	25JAN2009 00:00:15.689394	32	25JAN2009 00:00:15.689394	7
18	25JAN2009 00:00:16.064407	32	25JAN2009 00:00:16.064407	7
19	25JAN2009 00:00:16.439420	32	25JAN2009 00:00:16.439420	7
	...	...	...	...

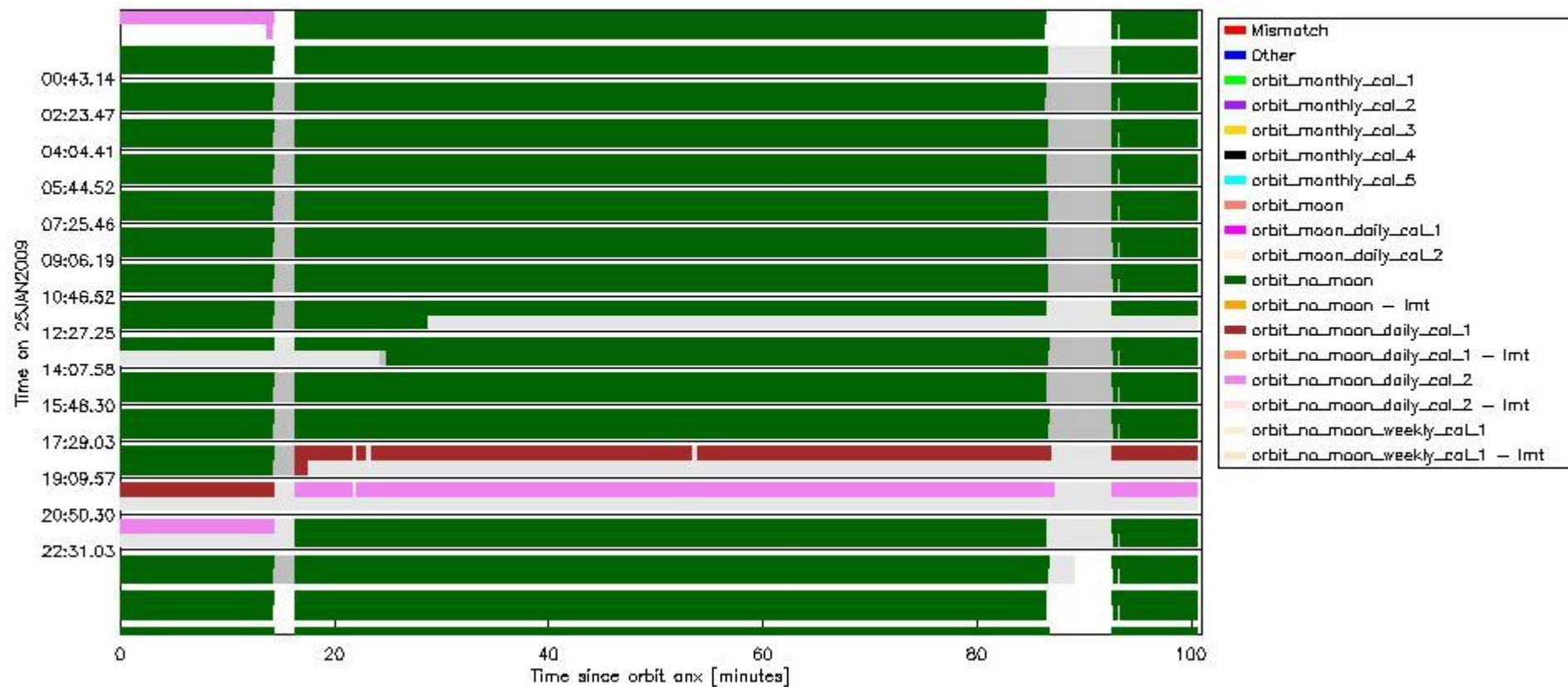


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090125\_5.PNG

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 25JAN2009.  
 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\_20090125\_6.PNG

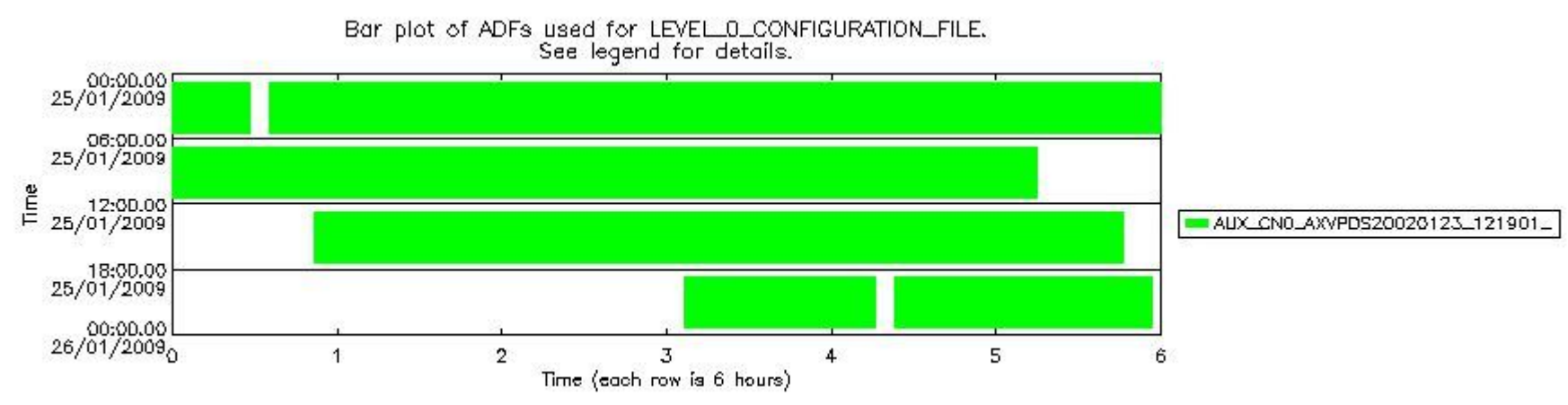
## 0.4 ADF monitoring

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

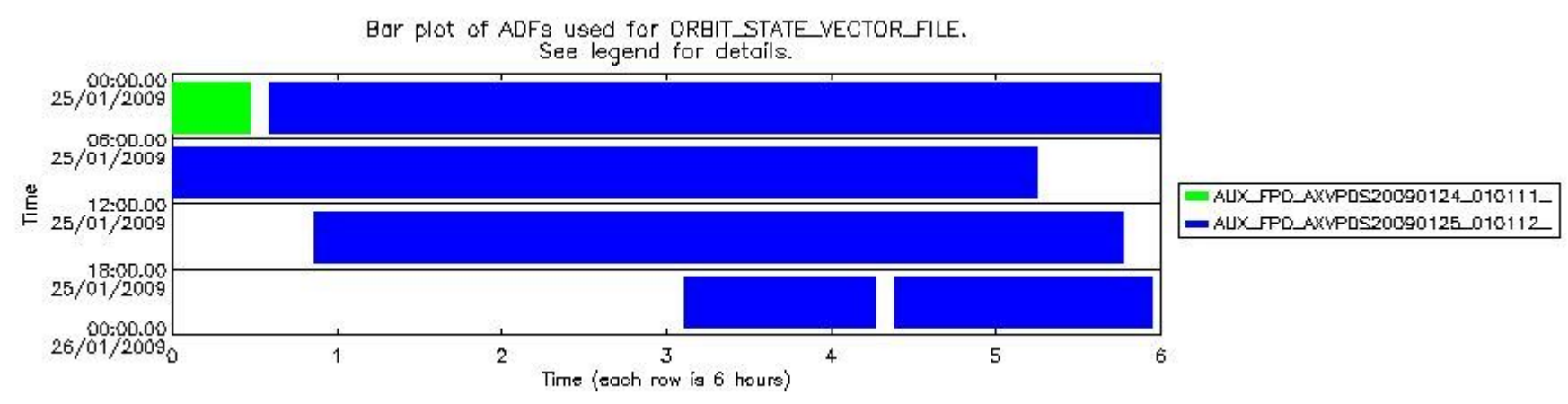
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

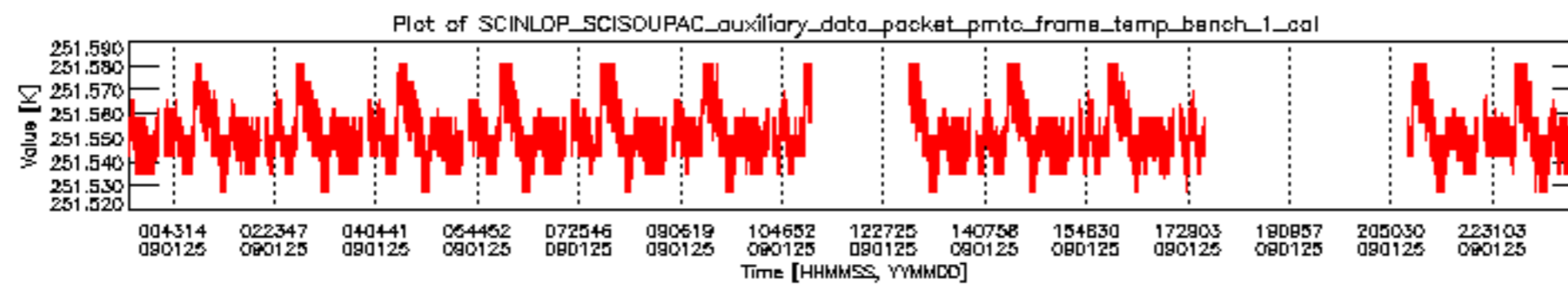
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090124_010111_20090123_183229_20090202_213917
2	AUX_FPO_AXVPDS20090125_010112_20090124_194128_20090203_210740



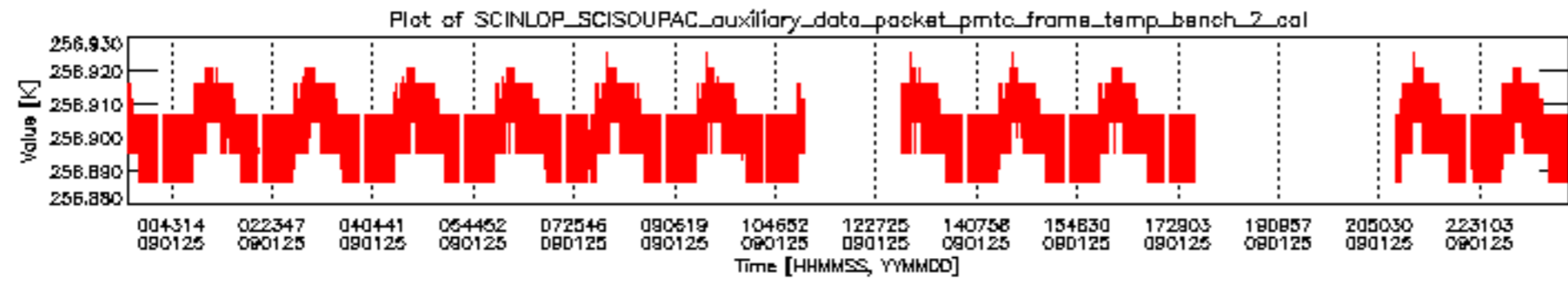
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090125\_7.PNG

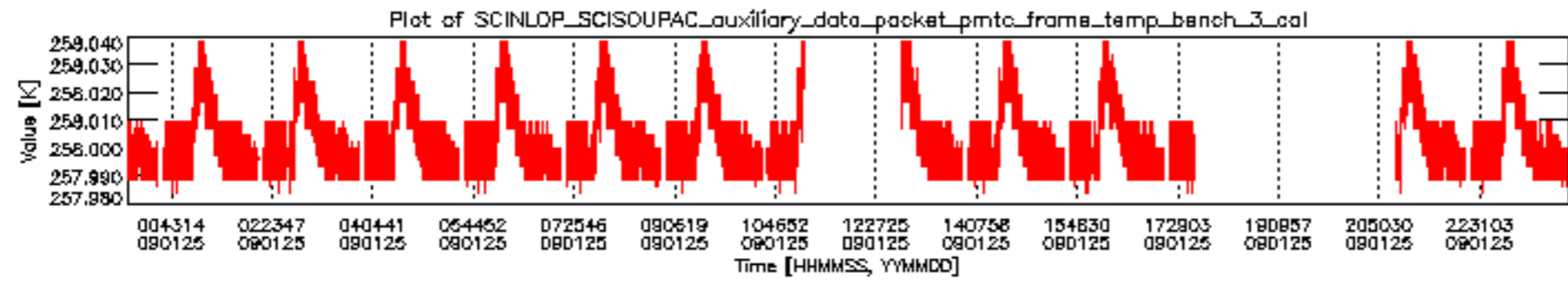


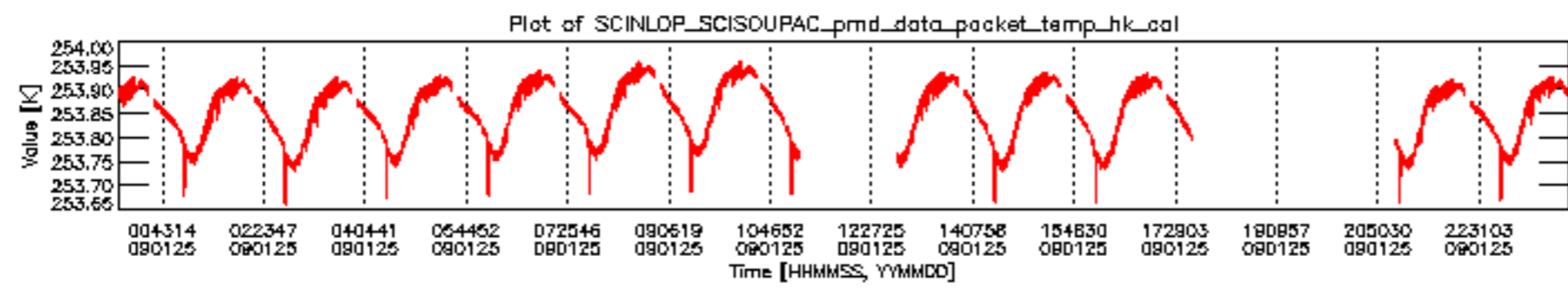
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090125\_8.PNG

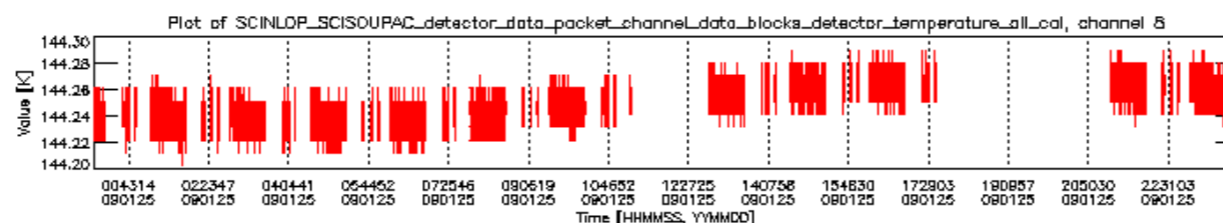
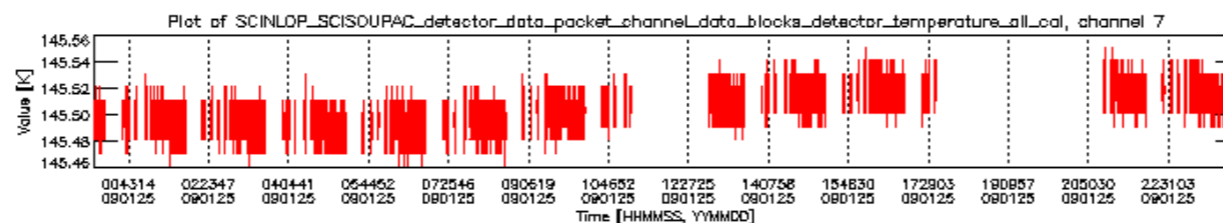
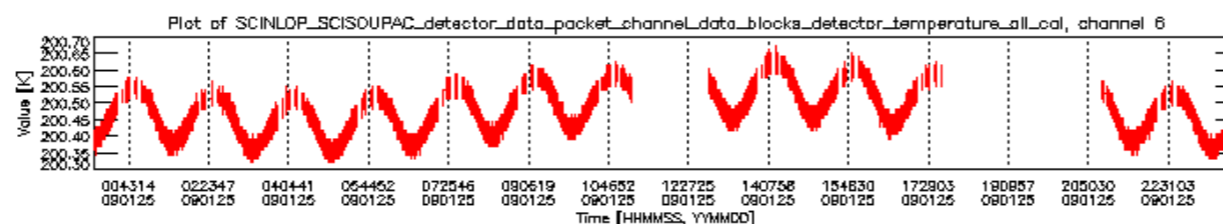
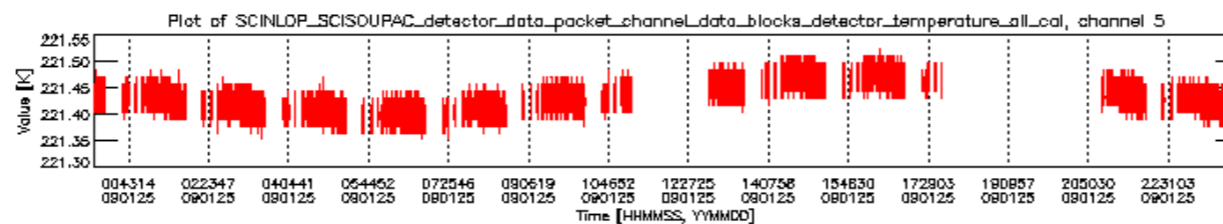
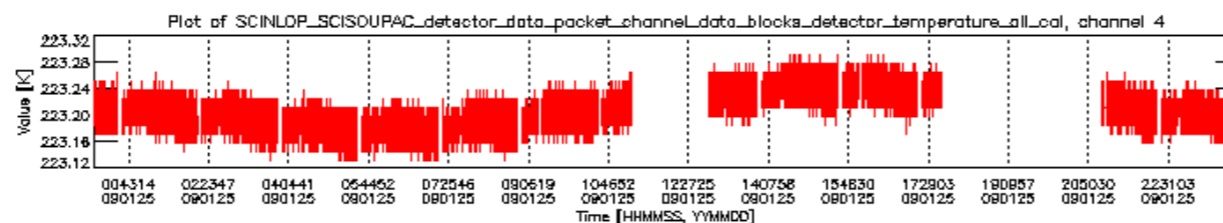
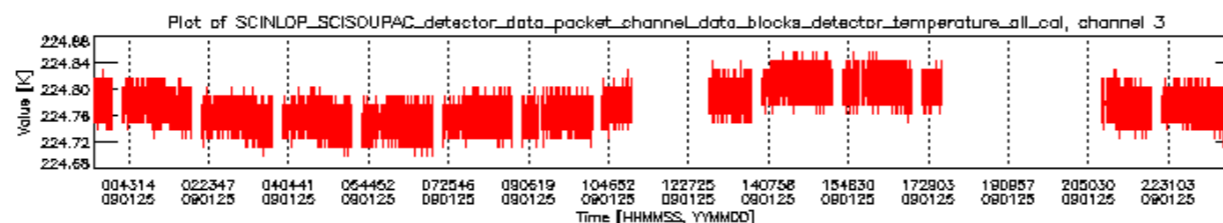
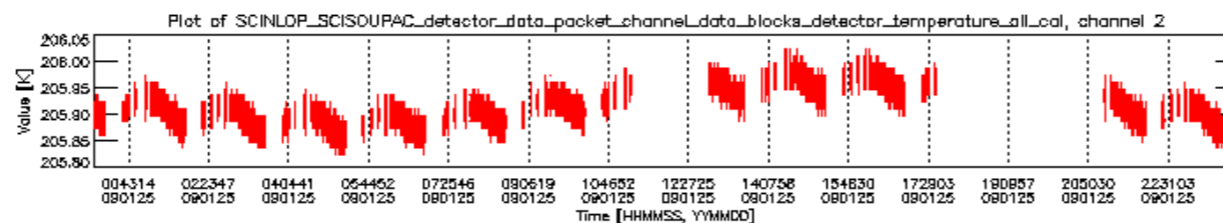
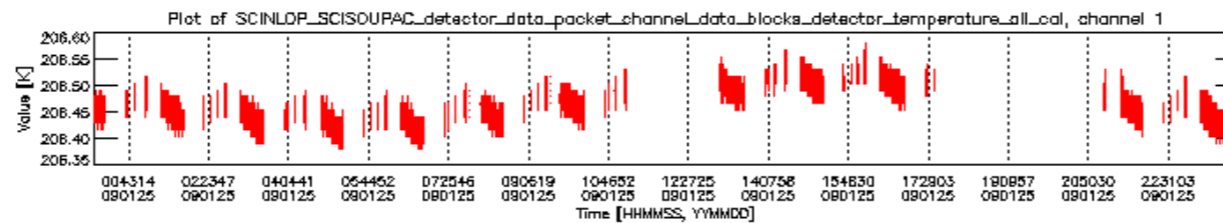


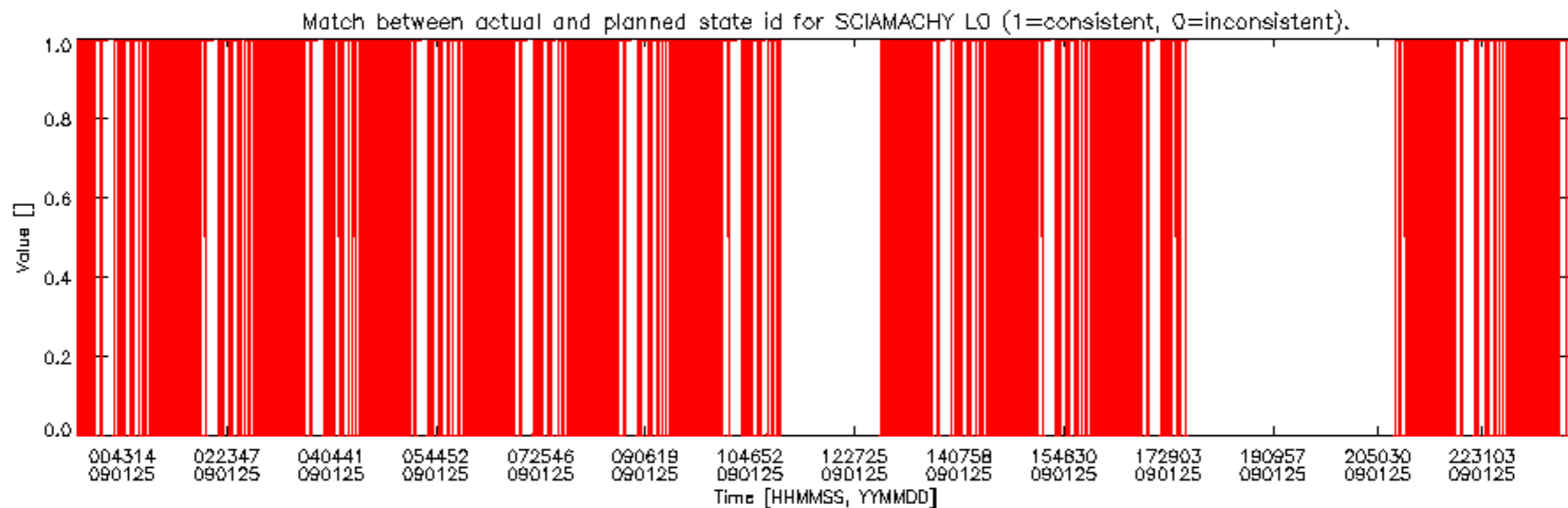
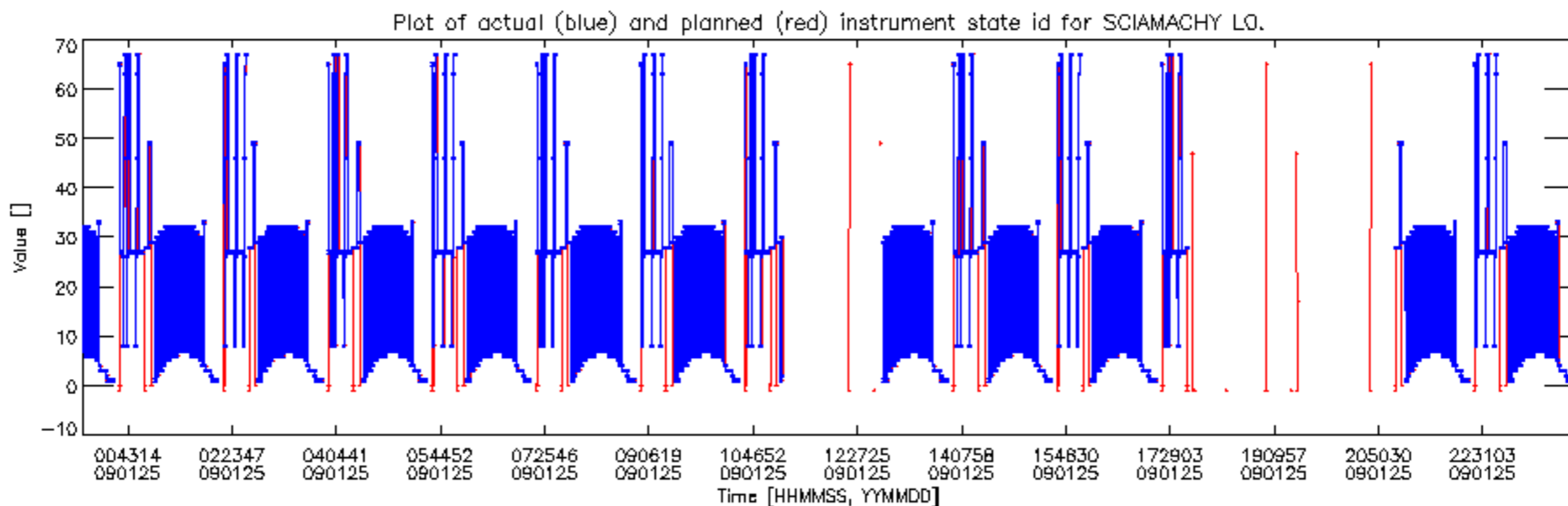




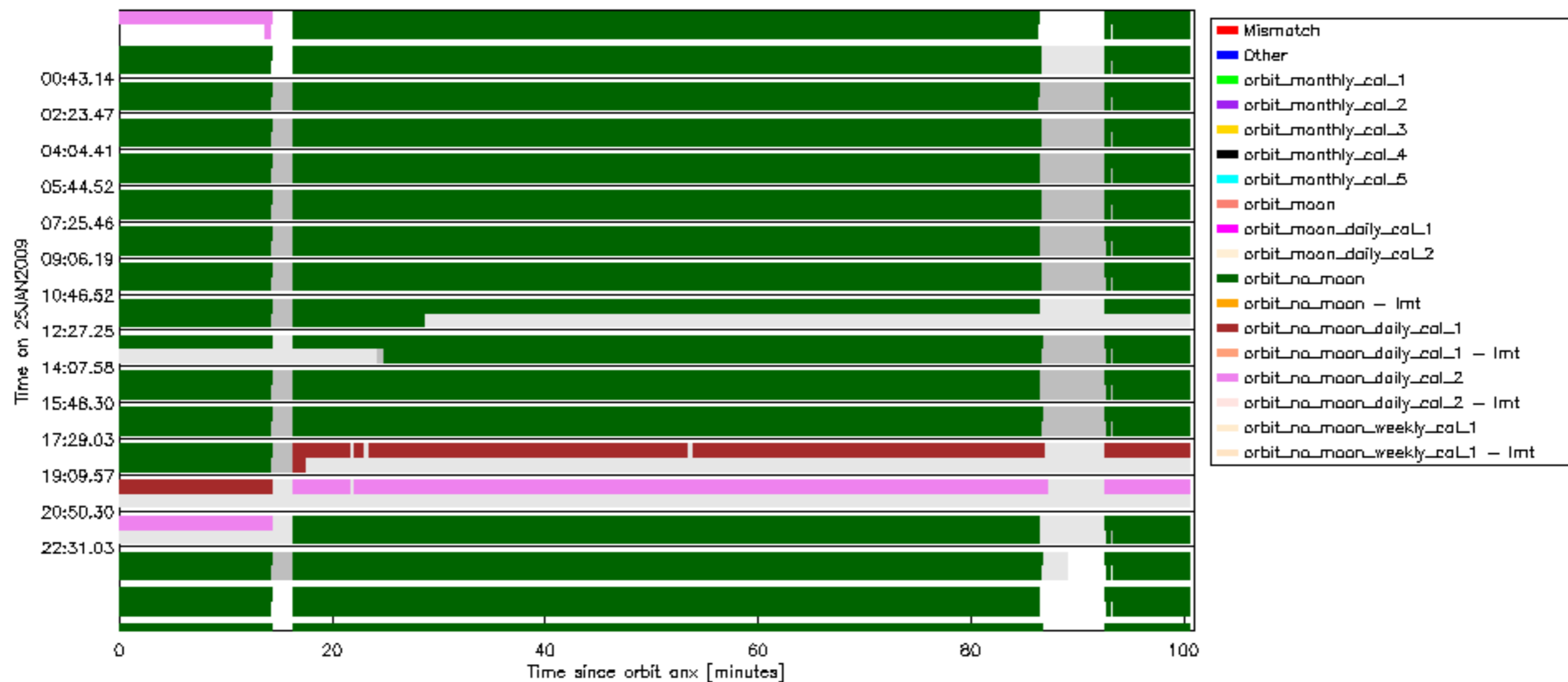


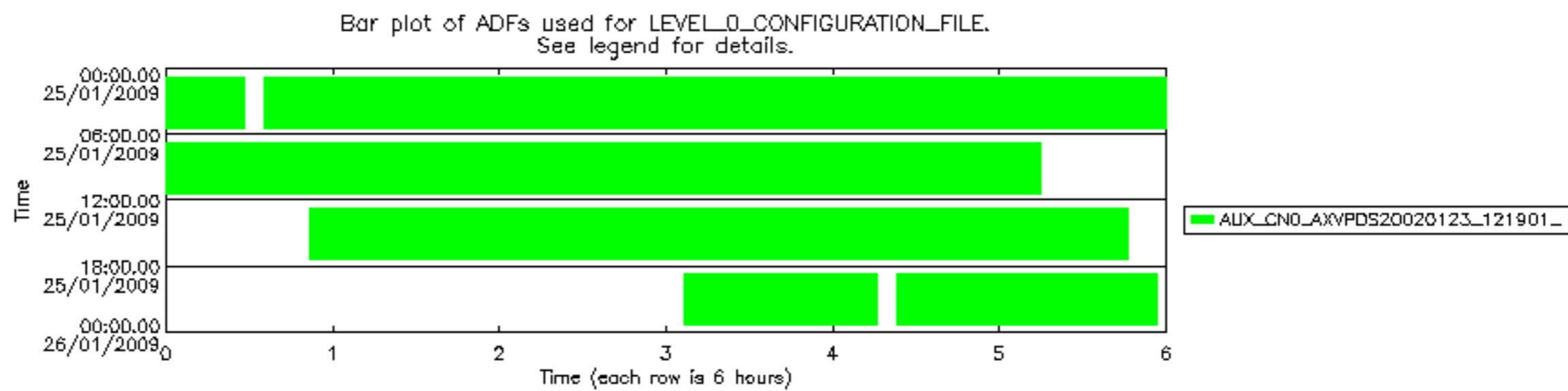






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 25JAN2009.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

