

## 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	01JUN2008 05:19:18
Data source version	KSPT_L0/4303-N
Processing scope for products	28MAY2008 00:00:00 to 29MAY2008 00:00:00
Start time of first product within scope	27MAY2008 22:55:21
Stop time of last product within scope	29MAY2008 00:05:09
Total number of level 0 products	16
Number of level 0 products with errors	1

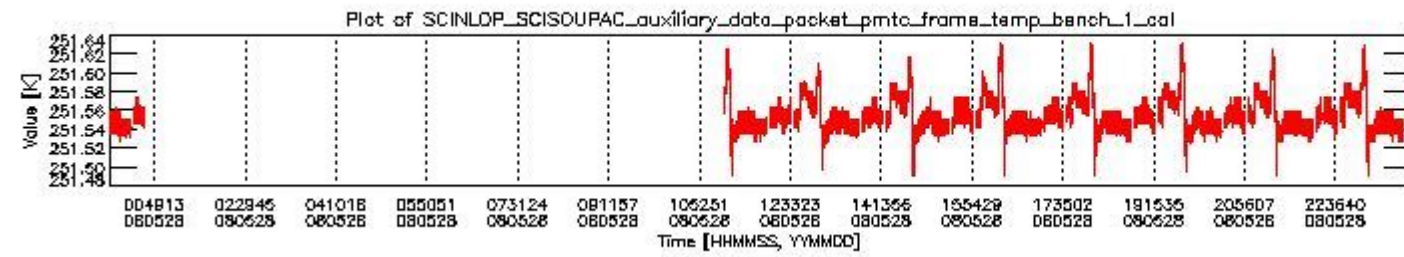
### 0.1.2 Summary per product

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

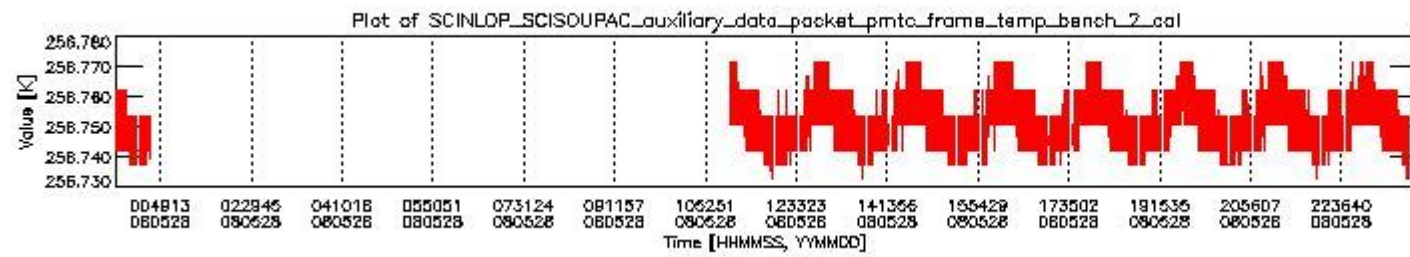
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080527_225521_000061322069_00015_32634_6851.N1	27MAY2008 22:55:21	28MAY2008 00:37:33	0	0	0	0	0
1	SCI_NL__OPNPDE20080528_003649_000057762069_00016_32635_6852.N1	28MAY2008 00:36:49	28MAY2008 02:13:05	0	0	0	0	0
2	SCI_NL__OPNPDE20080528_021231_000045852069_00017_32636_6853.N1	28MAY2008 02:12:31	28MAY2008 03:28:56	0	0	0	0	0
3	SCI_NL__OPNPDE20080528_032856_000061602069_00018_32637_6854.N1	28MAY2008 03:28:56	28MAY2008 05:11:36	0	0	0	0	0
4	SCI_NL__OPNPDE20080528_051136_000059672069_00019_32638_6855.N1	28MAY2008 05:11:36	28MAY2008 06:51:04	0	0	0	0	0
5	SCI_NL__OPNPDK20080528_065104_000041132069_00020_32639_8332.N1	28MAY2008 06:51:04	28MAY2008 07:59:37	0	0	0	0	0
6	SCI_NL__OPNPDK20080528_075937_000061602069_00021_32640_8333.N1	28MAY2008 07:59:37	28MAY2008 09:42:17	1	1	0	0	0
7	SCI_NL__OPNPDK20080528_094109_000059802069_00022_32641_8334.N1	28MAY2008 09:41:09	28MAY2008 11:20:48	0	0	0	0	0
8	SCI_NL__OPNPDK20080528_111953_000059672069_00023_32642_8335.N1	28MAY2008 11:19:53	28MAY2008 12:59:20	0	0	0	0	0
9	SCI_NL__OPNPDK20080528_125920_000059112069_00024_32643_8336.N1	28MAY2008 12:59:20	28MAY2008 14:37:51	0	0	0	0	0
10	SCI_NL__OPNPDK20080528_143751_000058432069_00025_32644_8337.N1	28MAY2008 14:37:51	28MAY2008 16:15:14	0	0	0	0	0
11	SCI_NL__OPNPDK20080528_161418_000059262069_00026_32645_8338.N1	28MAY2008 16:14:18	28MAY2008 17:53:04	0	0	0	0	0
12	SCI_NL__OPNPDK20080528_175100_000060922069_00027_32646_8339.N1	28MAY2008 17:51:00	28MAY2008 19:32:31	0	0	0	0	0
13	SCI_NL__OPNPDK20080528_193027_000062142069_00028_32647_8340.N1	28MAY2008 19:30:27	28MAY2008 21:14:01	0	0	0	0	0
14	SCI_NL__OPNPDE20080528_211156_000043052069_00029_32648_6856.N1	28MAY2008 21:11:56	28MAY2008 22:23:41	0	0	0	0	0
15	SCI_NL__OPNPDE20080528_222308_000061212069_00029_32648_6857.N1	28MAY2008 22:23:08	29MAY2008 00:05:09	0	0	0	0	0

## 0.2 Product Quality Indicators

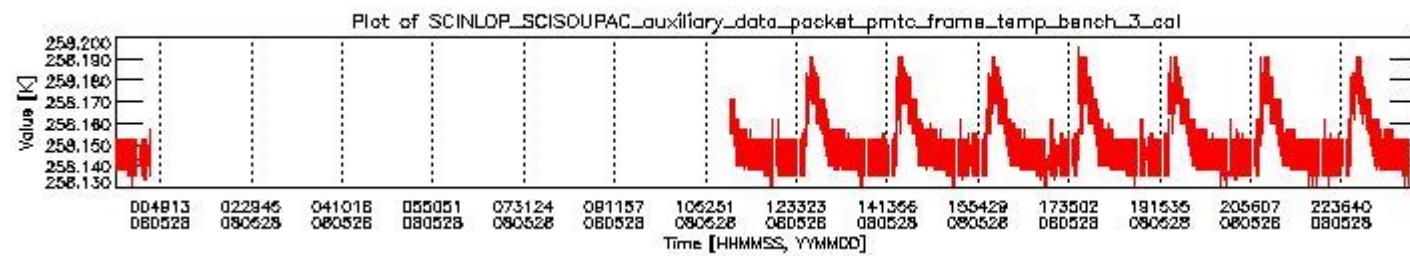
This section shows information about product quality, currently temperatures.



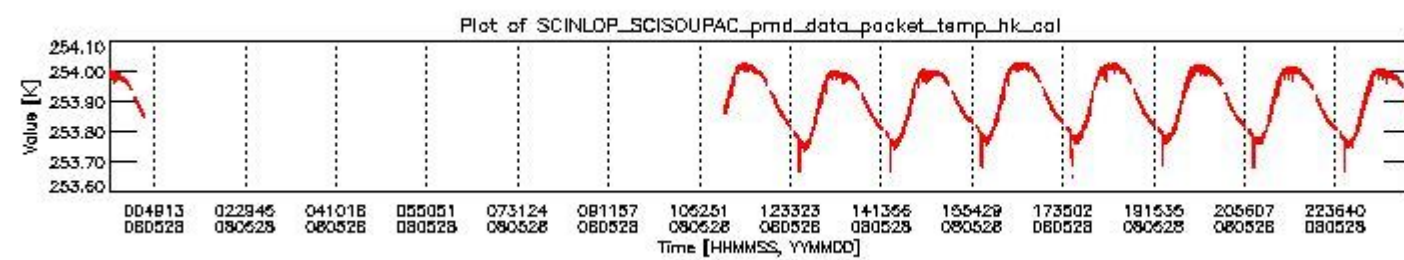
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080528\_0.PNG



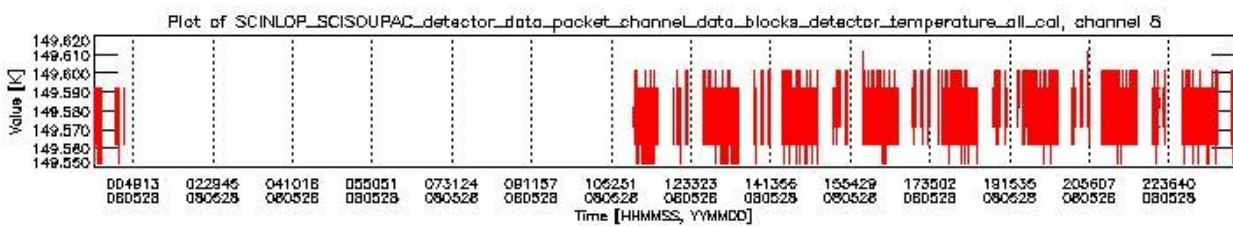
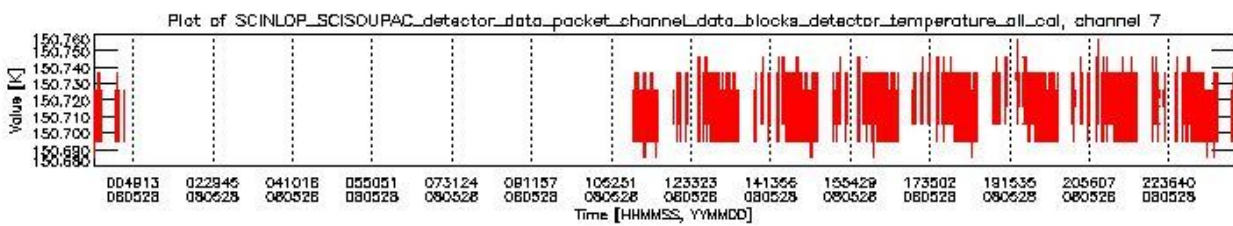
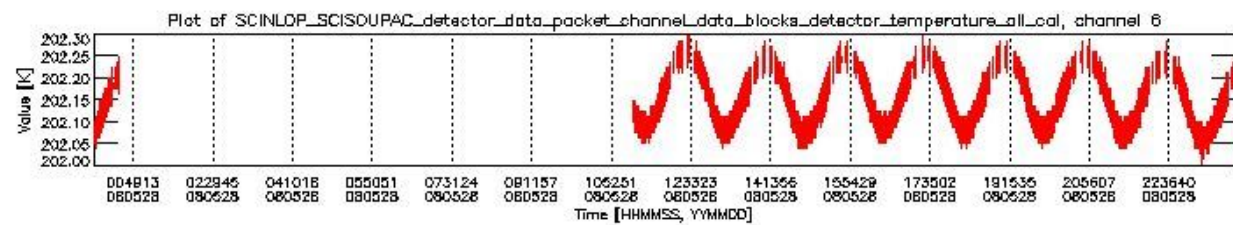
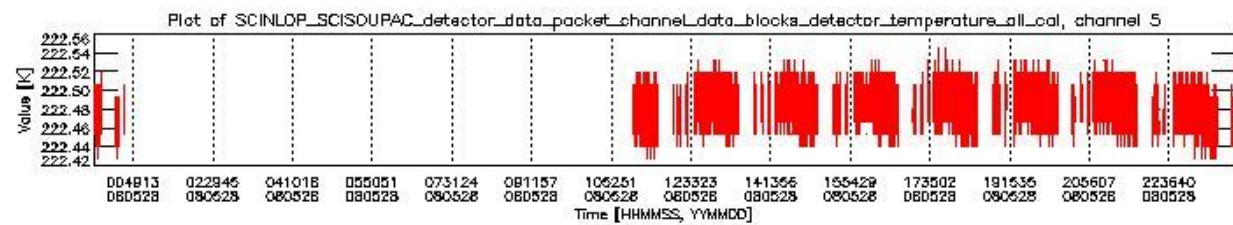
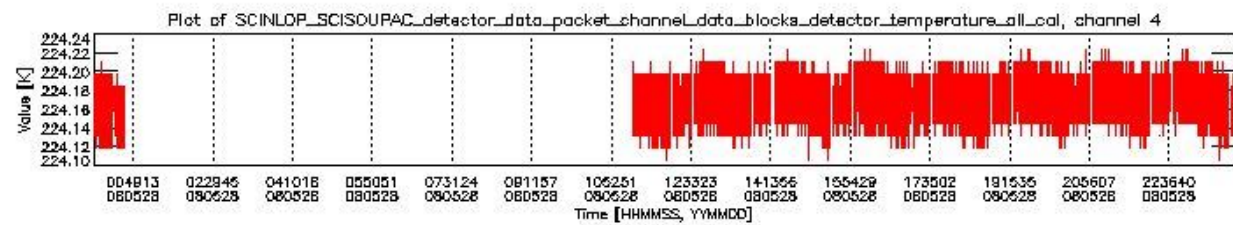
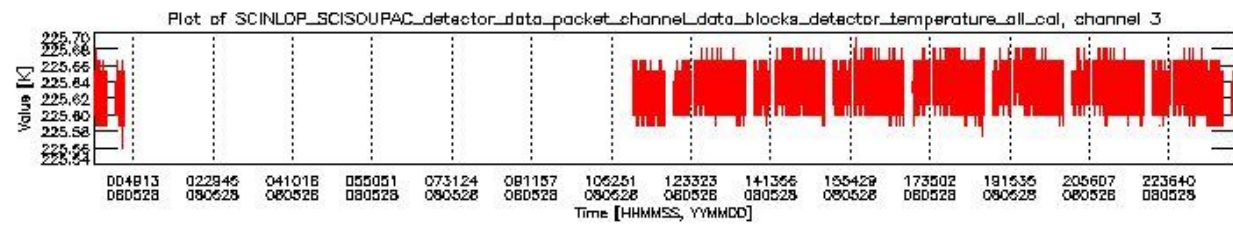
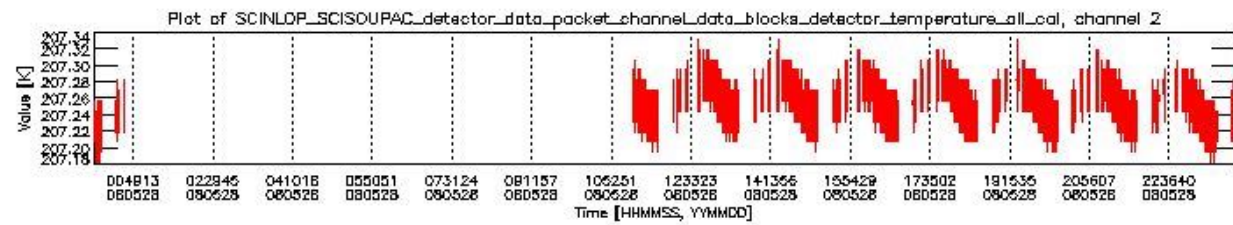
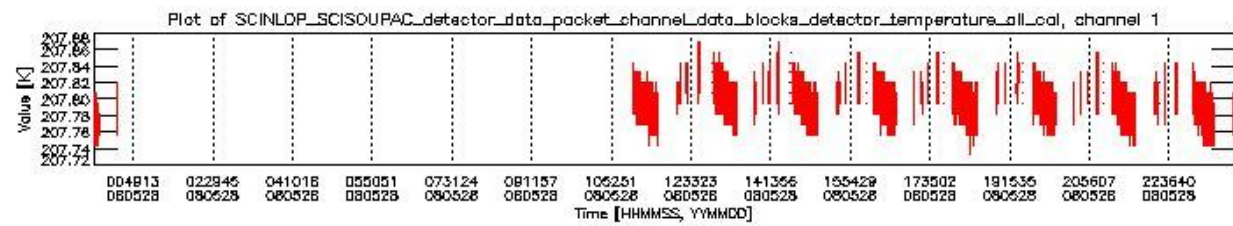
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080528\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080528\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080528\_3.PNG



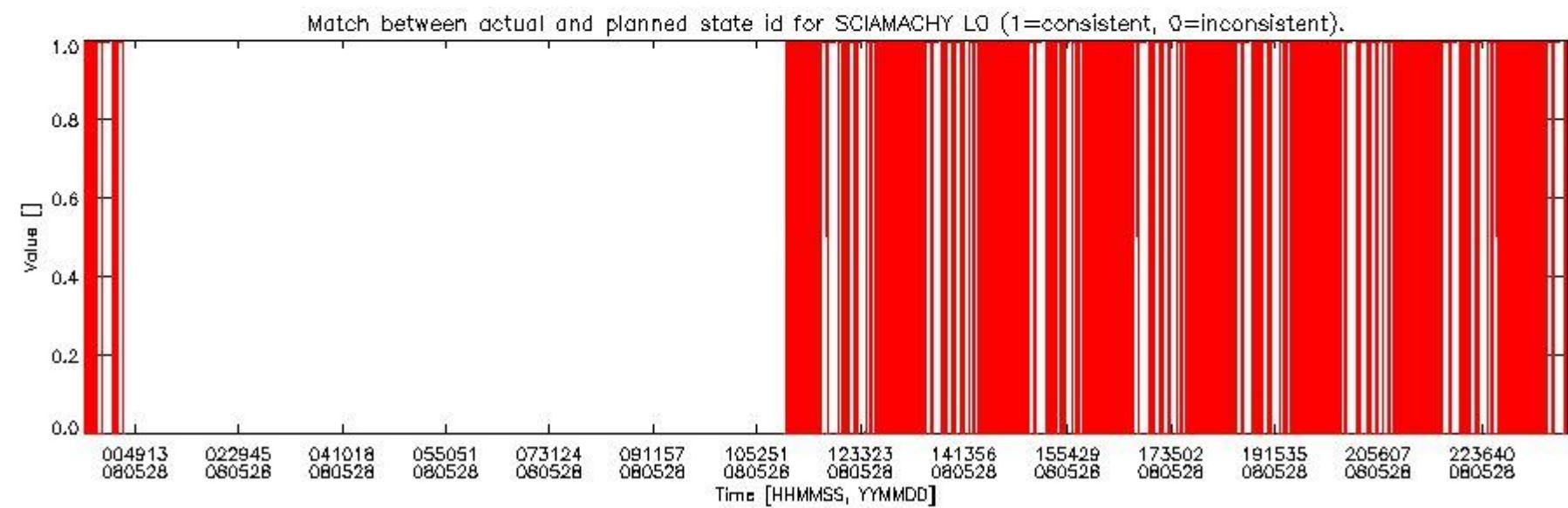
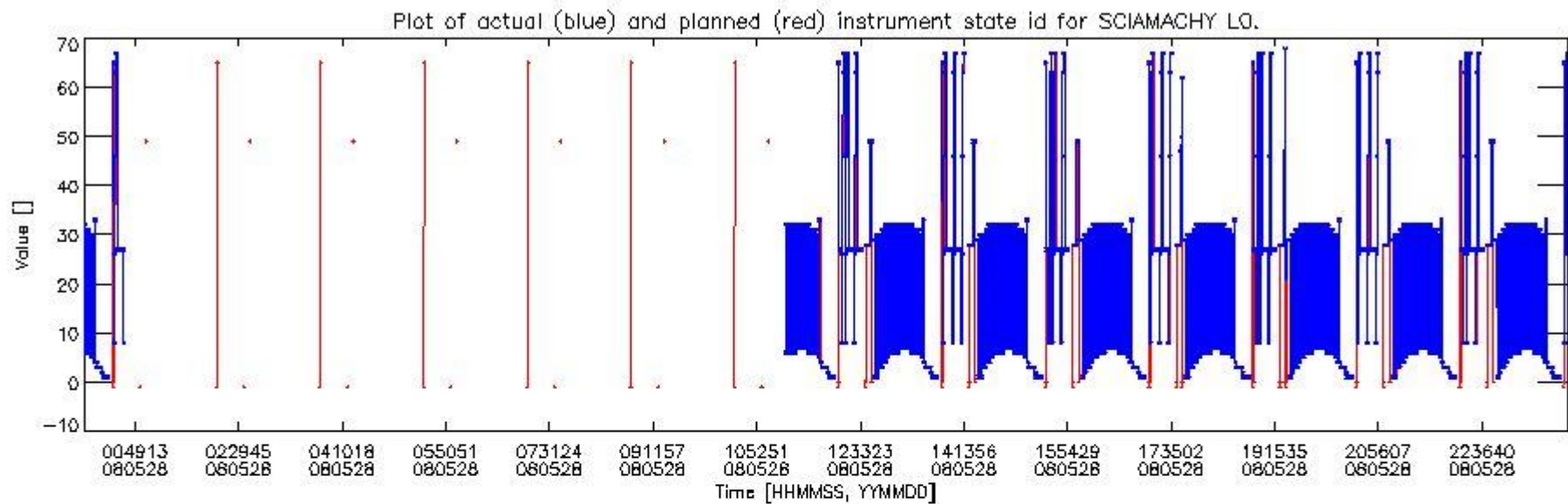


### 0.3 State monitoring

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: **21823**

#	Actual time	Actual value	Planned time	Planned value
0	28MAY2008 00:00:23.404983	6	28MAY2008 00:00:23.404983	32
1	28MAY2008 00:00:23.779956	6	28MAY2008 00:00:23.779956	32
2	28MAY2008 00:00:24.029964	6	28MAY2008 00:00:24.029964	32
3	28MAY2008 00:00:24.279973	6	28MAY2008 00:00:24.279973	32
4	28MAY2008 00:00:24.529982	6	28MAY2008 00:00:24.529982	32
5	28MAY2008 00:00:24.779950	6	28MAY2008 00:00:24.779950	32
6	28MAY2008 00:00:25.029959	6	28MAY2008 00:00:25.029959	32
7	28MAY2008 00:00:25.279967	6	28MAY2008 00:00:25.279967	32
8	28MAY2008 00:00:25.529976	6	28MAY2008 00:00:25.529976	32
9	28MAY2008 00:00:25.779945	6	28MAY2008 00:00:25.779945	32
10	28MAY2008 00:00:26.029953	6	28MAY2008 00:00:26.029953	32
11	28MAY2008 00:00:26.279962	6	28MAY2008 00:00:26.279962	32
12	28MAY2008 00:00:26.529971	6	28MAY2008 00:00:26.529971	32
13	28MAY2008 00:00:26.779979	6	28MAY2008 00:00:26.779979	32
14	28MAY2008 00:00:27.029948	6	28MAY2008 00:00:27.029948	32
15	28MAY2008 00:00:27.279957	6	28MAY2008 00:00:27.279957	32
16	28MAY2008 00:00:27.529965	6	28MAY2008 00:00:27.529965	32
17	28MAY2008 00:00:27.779974	6	28MAY2008 00:00:27.779974	32
18	28MAY2008 00:00:28.029983	6	28MAY2008 00:00:28.029983	32
19	28MAY2008 00:00:28.279951	6	28MAY2008 00:00:28.279951	32
	...	...	...	...

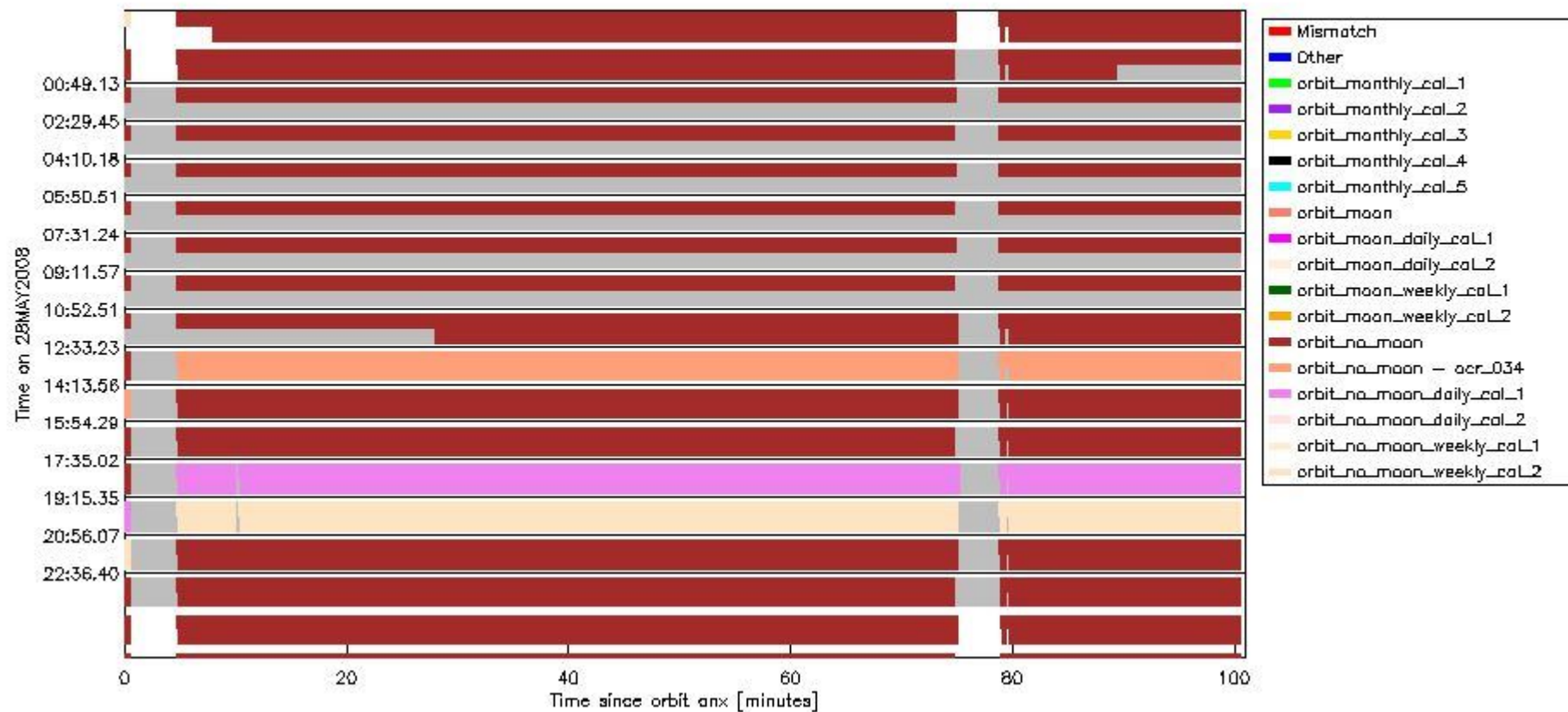


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080528\_5.PNG

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 28MAY2008.  
 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\_20080528\_6.PNG

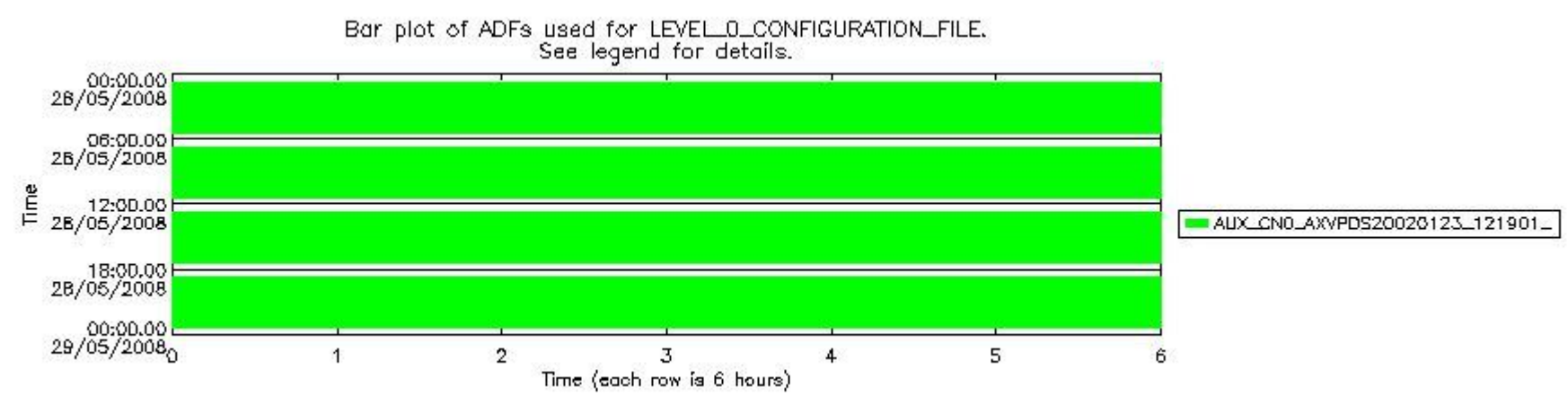
## 0.4 ADF monitoring

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

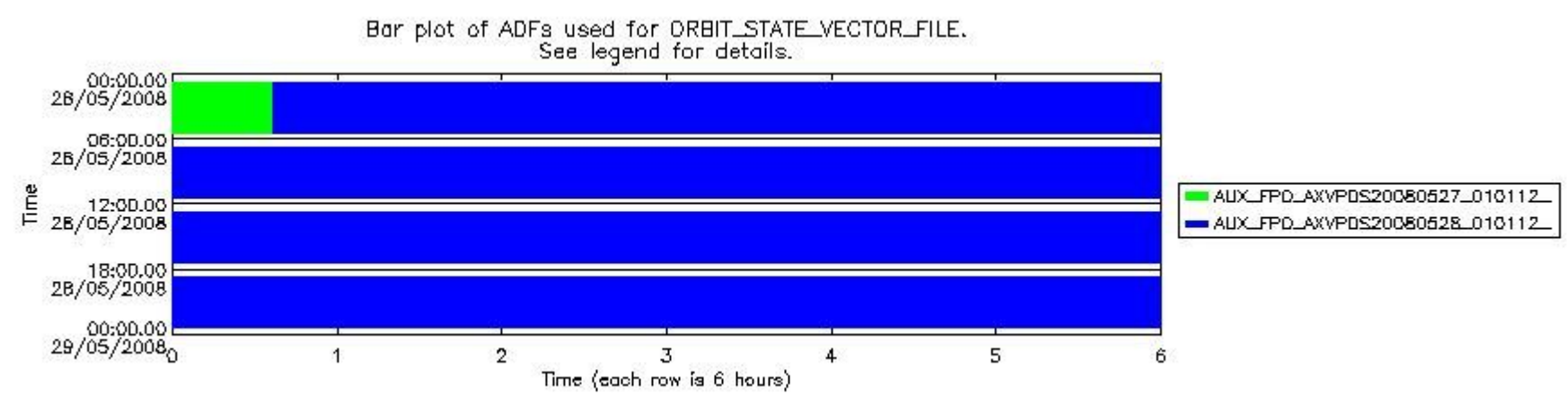
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

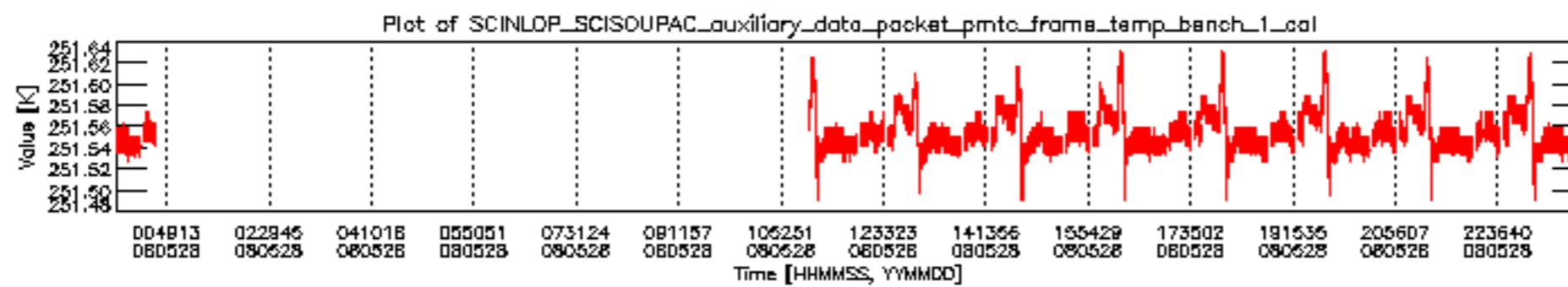
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20080527_010112_20080526_183818_20080605_200431</b>
2	<b>AUX_FPO_AXVPDS20080528_010112_20080527_194717_20080606_211331</b>



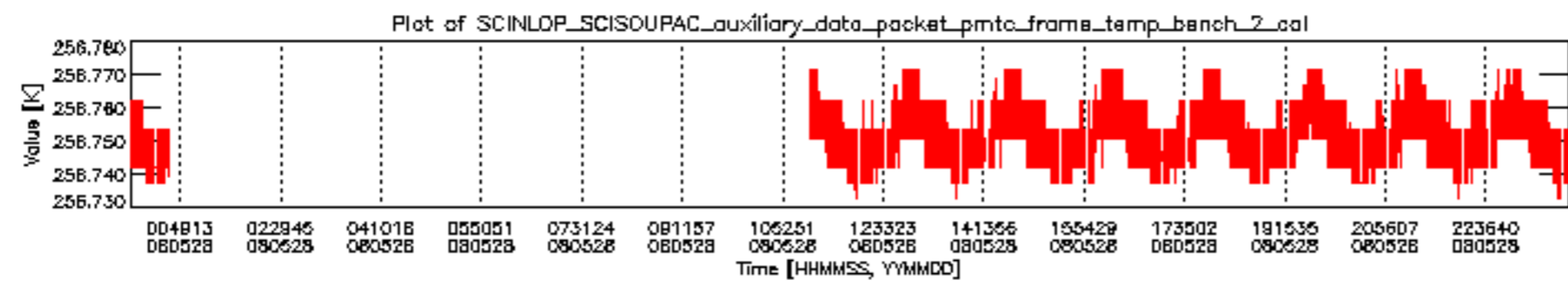
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080528\_7.PNG

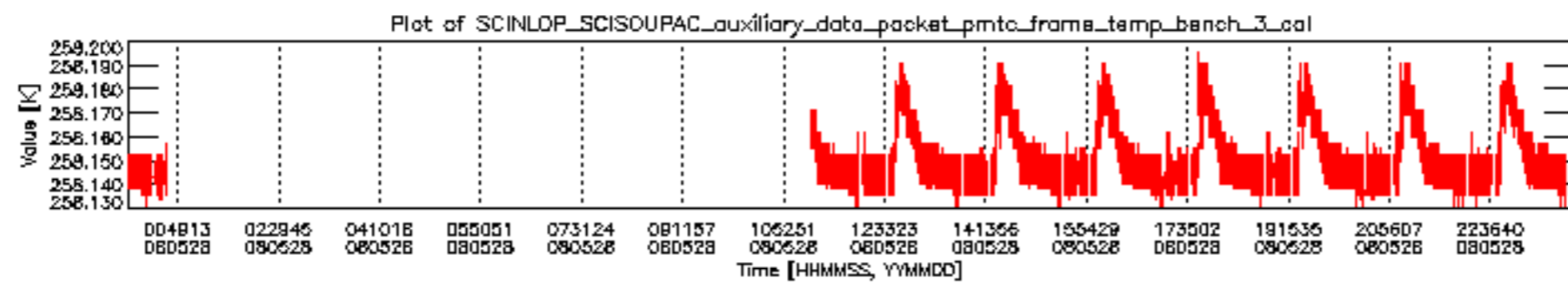


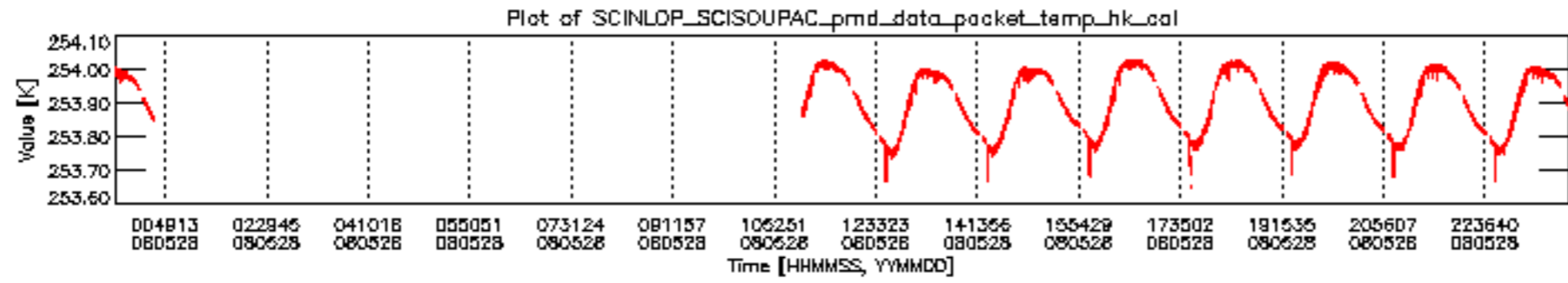
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080528\_8.PNG

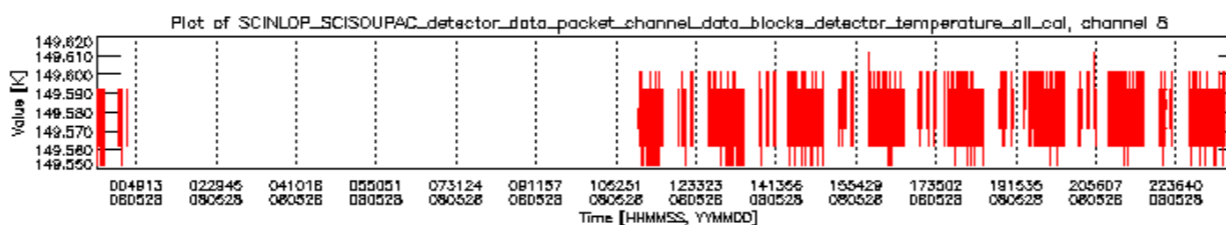
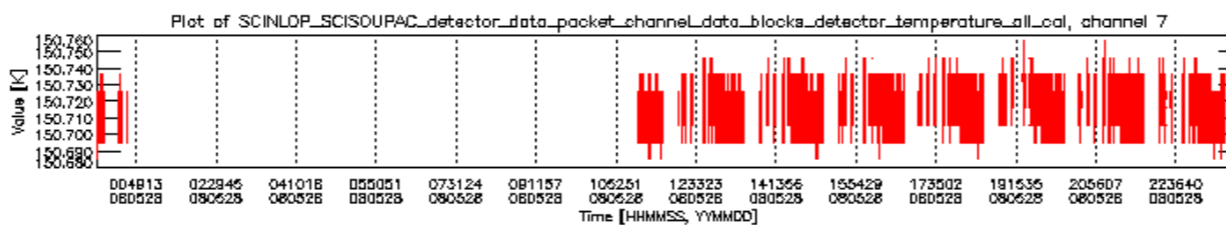
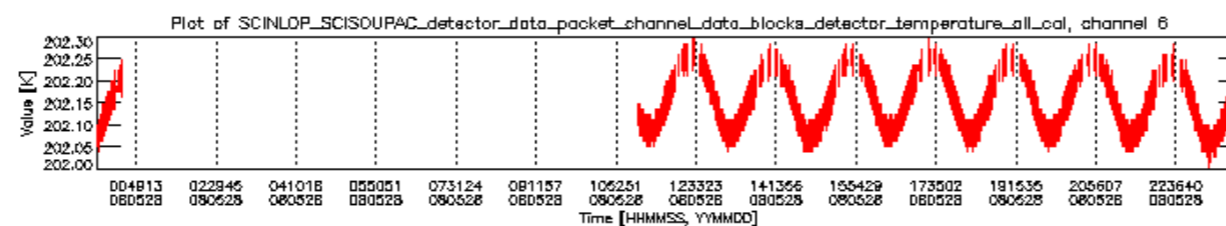
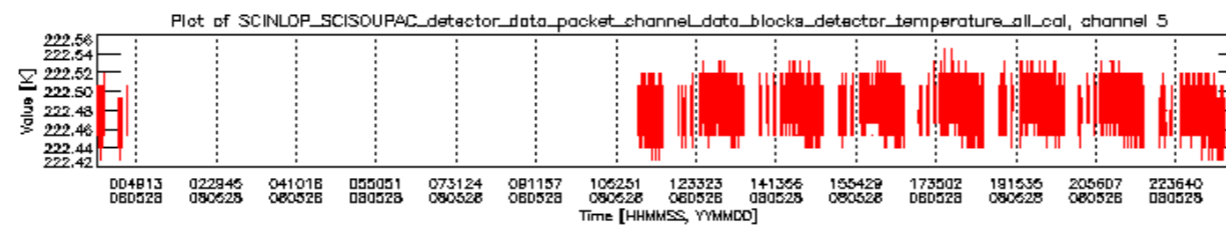
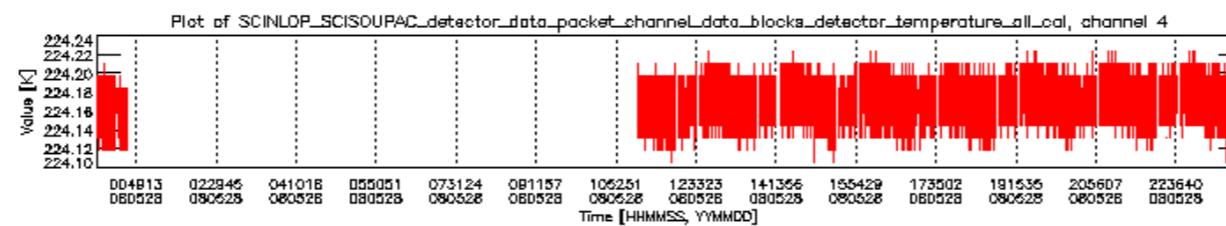
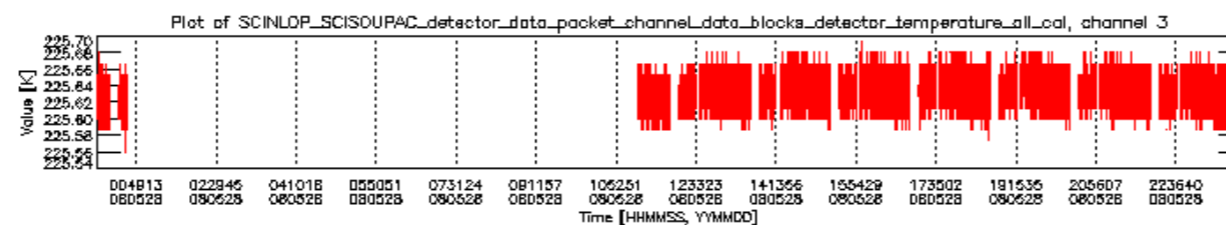
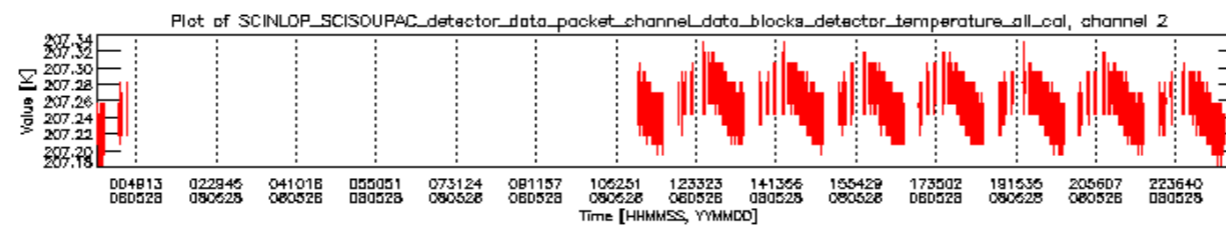
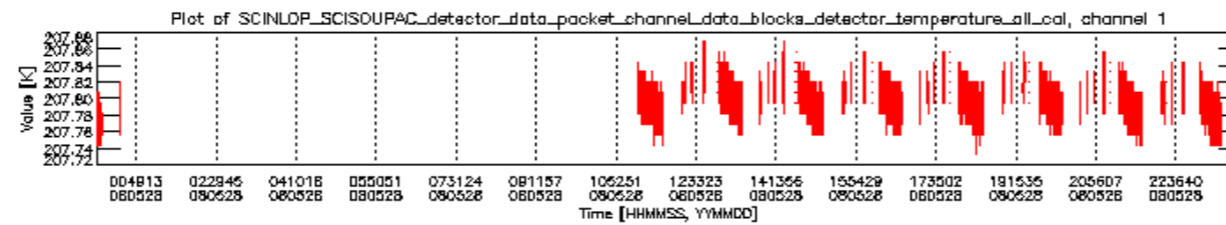




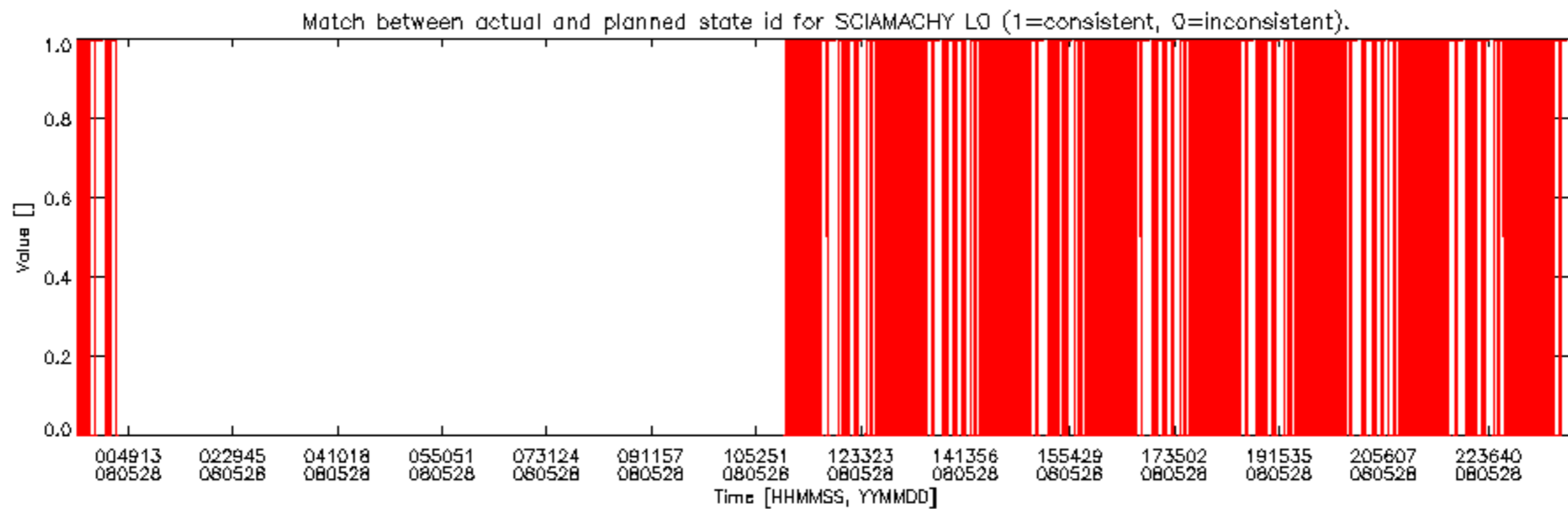
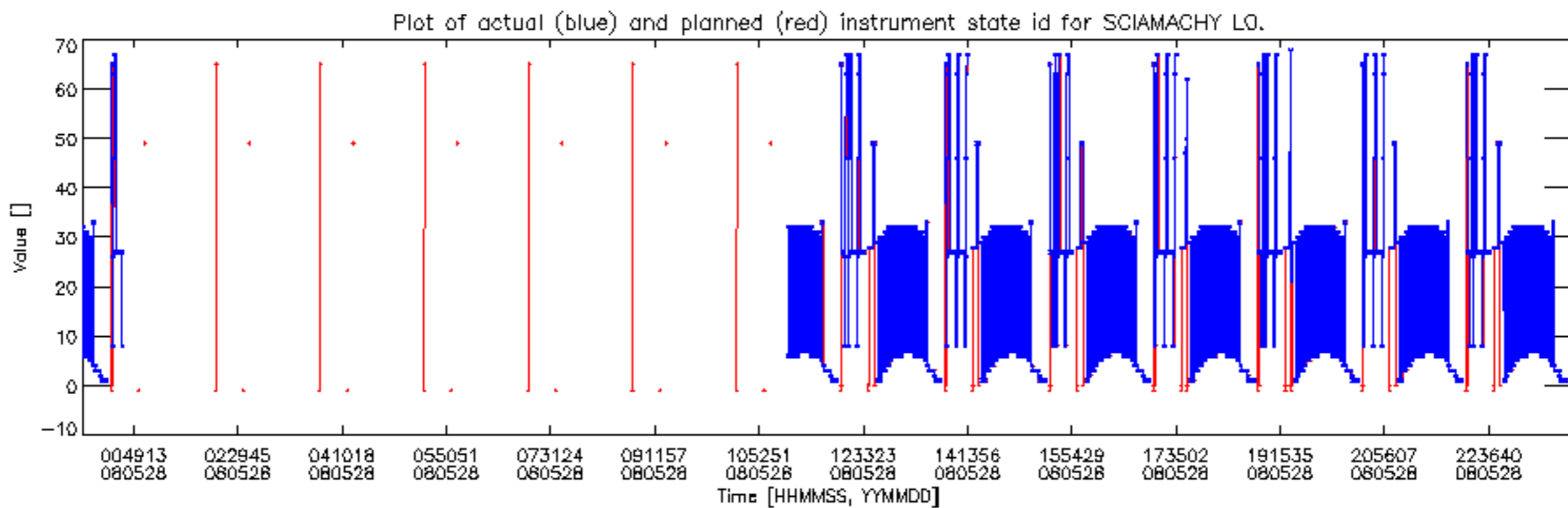




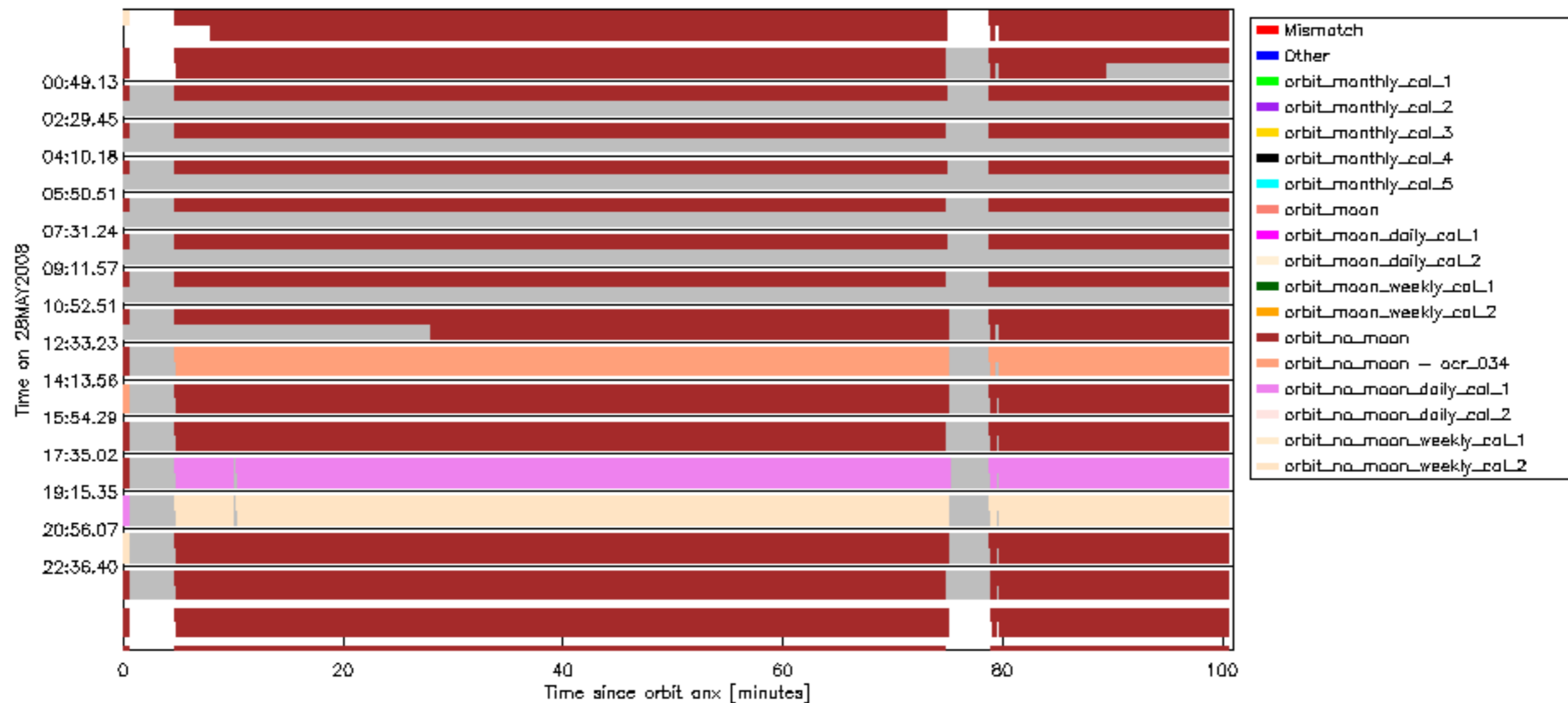


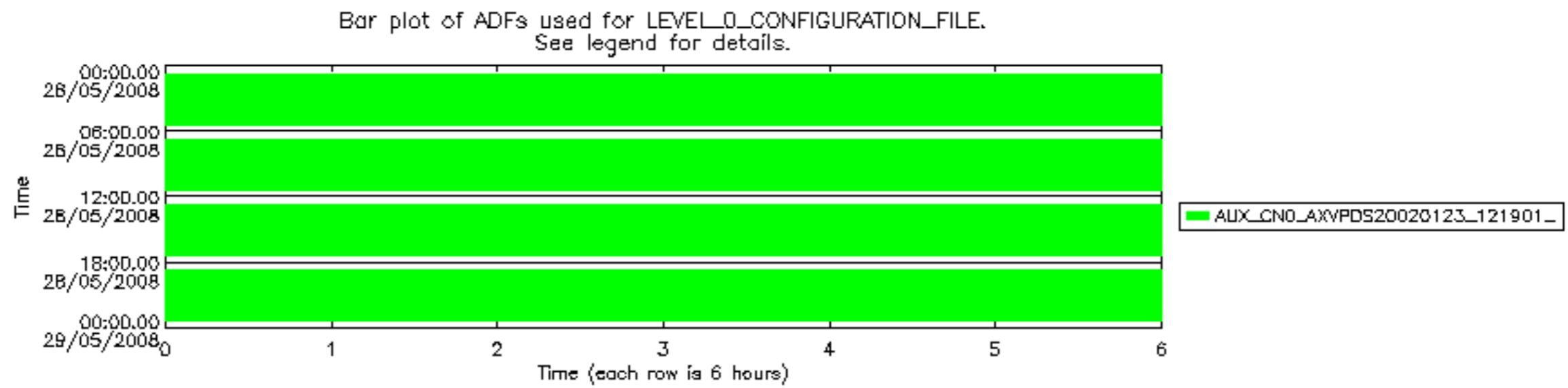






Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 28MAY2008.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned 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.

