

# 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	26SEP2008 06:01:40
Data source version	KSPT_L0/4303-N
Processing scope for products	22SEP2008 00:00:00 to 23SEP2008 00:00:00
Start time of first product within scope	21SEP2008 23:19:30
Stop time of last product within scope	23SEP2008 00:30:16
Total number of level 0 products	14
Number of level 0 products with errors	0

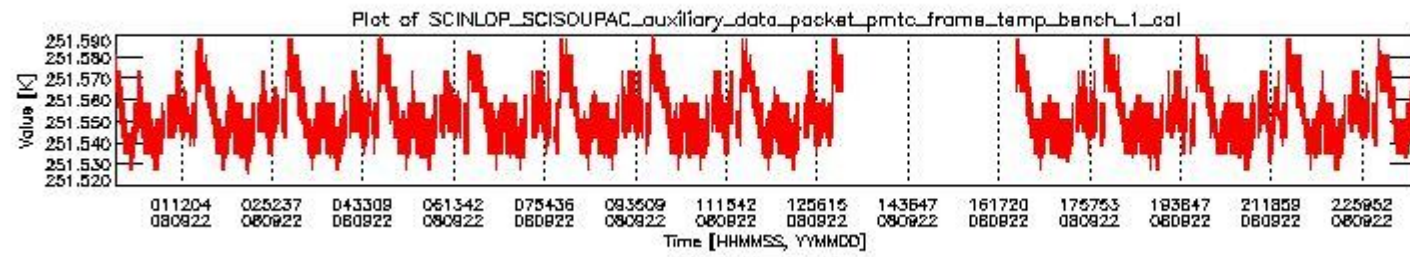
#### 0.1.2 Summary per product

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

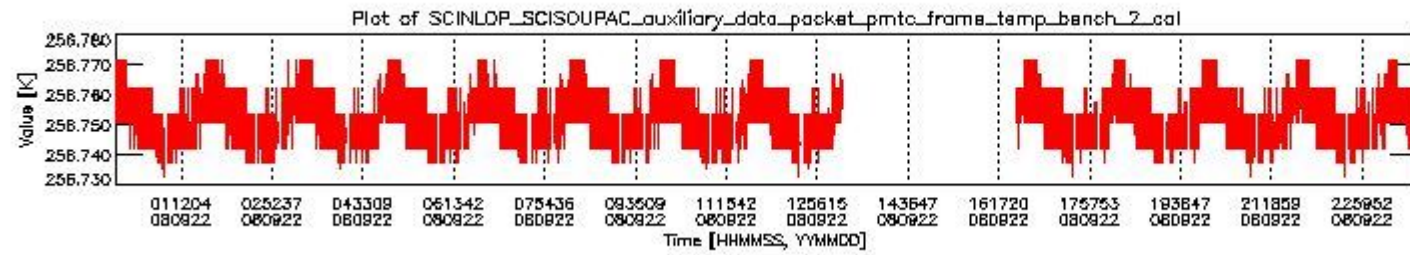
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080922_231930_000061352072_00187_34309_7552.N1	21SEP2008 23:19:30	22SEP2008 01:01:45	0	0	0	0	0
1	SCI_NL__OPNPDE20080922_010015_000046282072_00188_34310_7553.N1	22SEP2008 01:00:15	22SEP2008 02:17:23	0	0	0	0	0
2	SCI_NL__OPNPDE20080922_021615_000058002072_00189_34311_7554.N1	22SEP2008 02:16:15	22SEP2008 03:52:55	0	0	0	0	0
3	SCI_NL__OPNPDE20080922_035146_000061612072_00190_34312_7555.N1	22SEP2008 03:51:46	22SEP2008 05:34:27	0	0	0	0	0
4	SCI_NL__OPNPDE20080922_053427_000060372072_00191_34313_7556.N1	22SEP2008 05:34:27	22SEP2008 07:15:04	0	0	0	0	0
5	SCI_NL__OPNPDK20080922_071408_000041012072_00192_34314_9468.N1	22SEP2008 07:14:08	22SEP2008 08:22:29	0	0	0	0	0
6	SCI_NL__OPNPDK20080922_082229_000061052072_00193_34315_9469.N1	22SEP2008 08:22:29	22SEP2008 10:04:14	0	0	0	0	0
7	SCI_NL__OPNPDK20080922_100306_000059682072_00194_34316_9470.N1	22SEP2008 10:03:06	22SEP2008 11:42:34	0	0	0	0	0
8	SCI_NL__OPNPDK20080922_114234_000059812072_00195_34317_9471.N1	22SEP2008 11:42:34	22SEP2008 13:22:14	0	0	0	0	0
9	SCI_NL__OPNPDK20080922_163714_000059192072_00198_34320_9474.N1	22SEP2008 16:37:14	22SEP2008 18:15:52	0	0	0	0	0
10	SCI_NL__OPNPDK20080922_181442_000059192072_00199_34321_9475.N1	22SEP2008 18:14:42	22SEP2008 19:53:21	0	0	0	0	0
11	SCI_NL__OPNPDE20080922_195321_000039412072_00200_34322_7557.N1	22SEP2008 19:53:21	22SEP2008 20:59:03	0	0	0	0	0
12	SCI_NL__OPNPDE20080922_210436_000062042072_00200_34322_7558.N1	22SEP2008 21:04:36	22SEP2008 22:48:01	0	0	0	0	0
13	SCI_NL__OPNPDE20080922_224801_000061352072_00201_34323_7559.N1	22SEP2008 22:48:01	23SEP2008 00:30:16	0	0	0	0	0

### 0.2 Product Quality Indicators

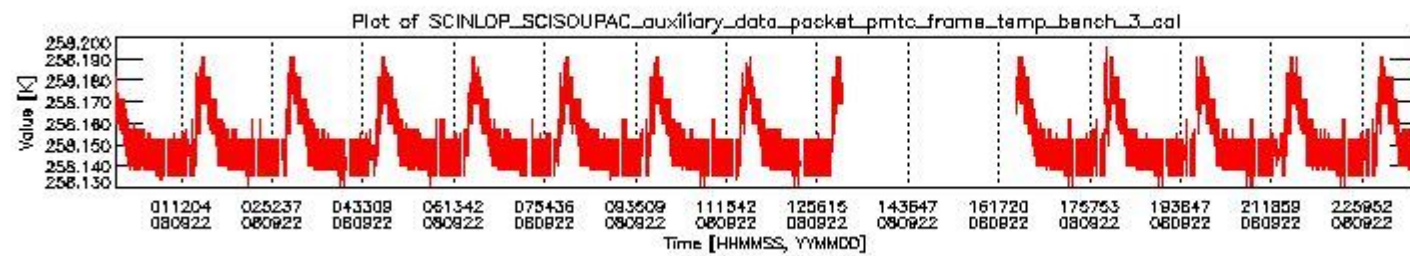
This section shows information about product quality, currently temperatures.



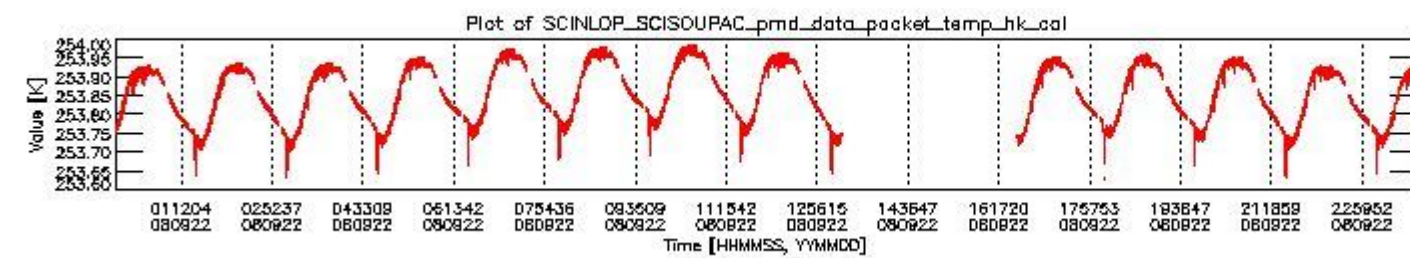
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080922\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080922\_1.PNG

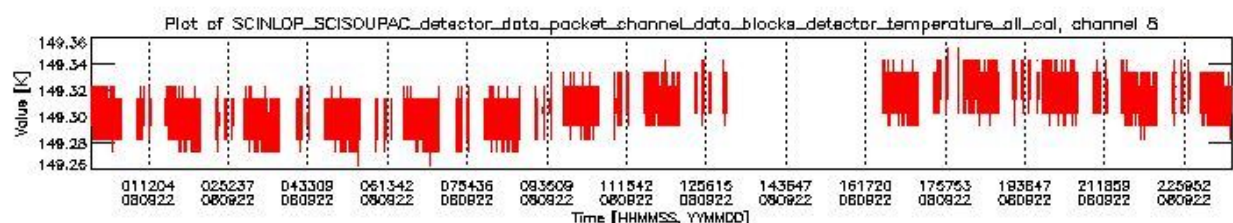
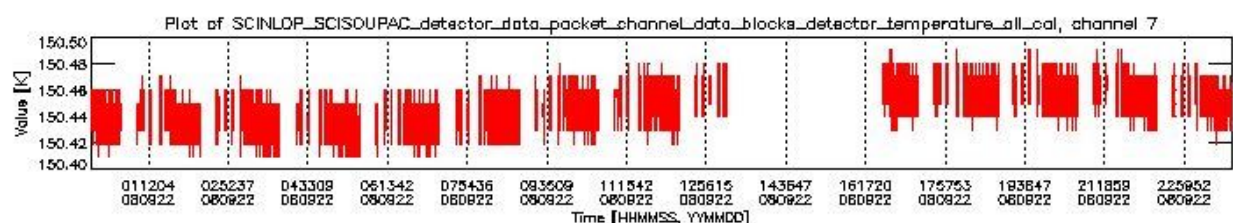
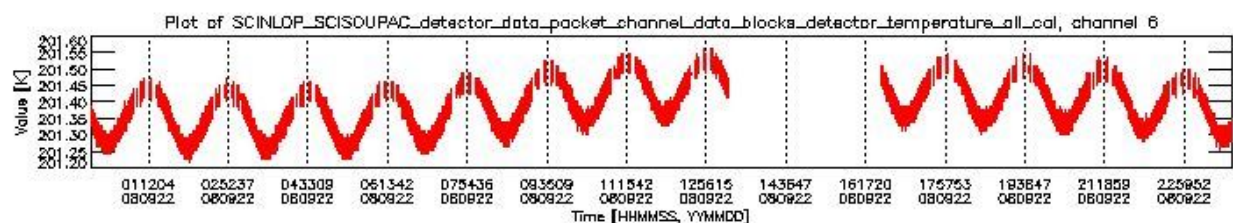
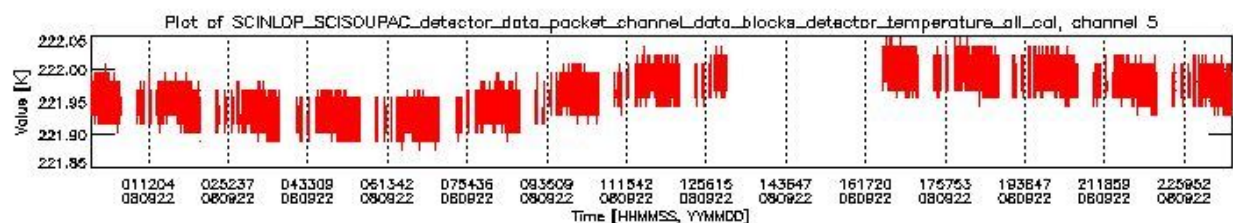
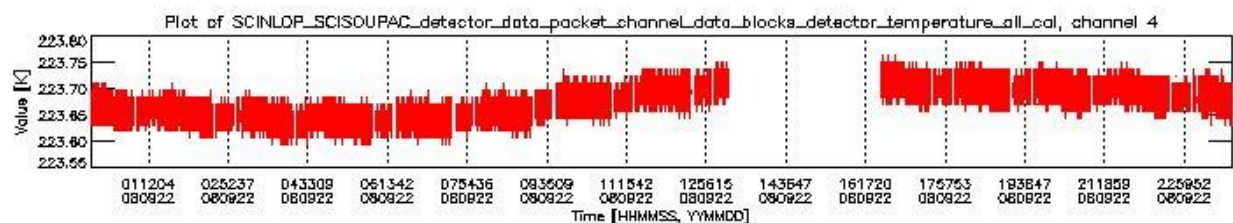
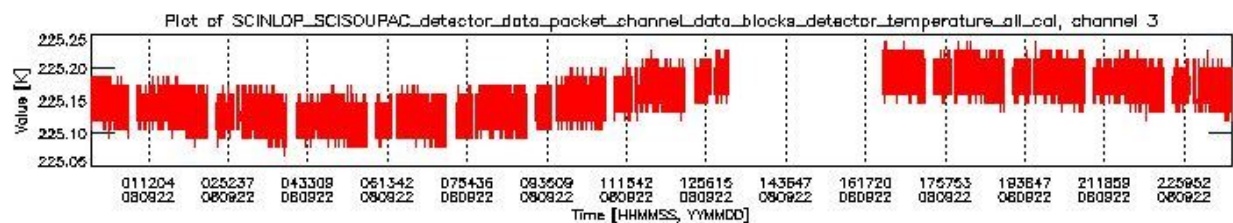
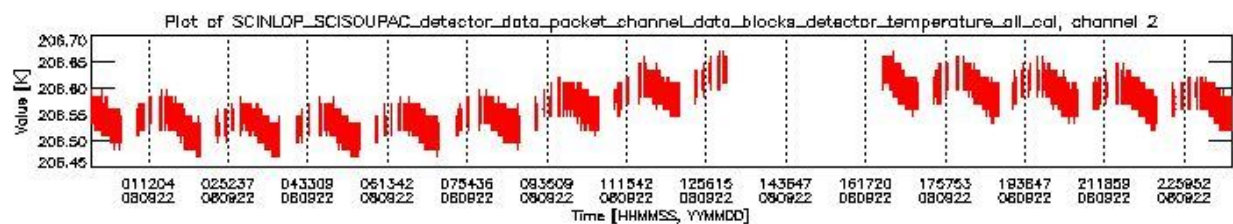
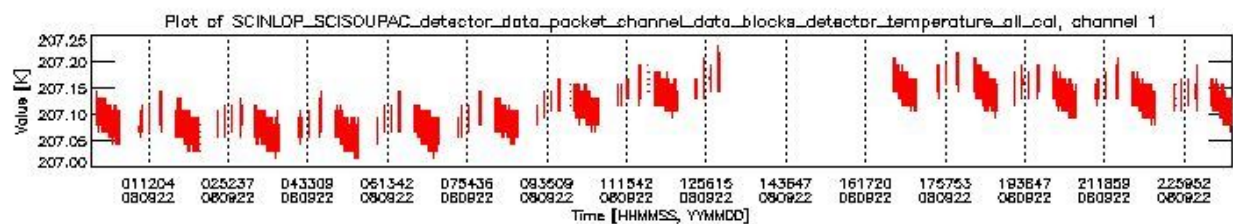


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080922\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080922\_3.PNG



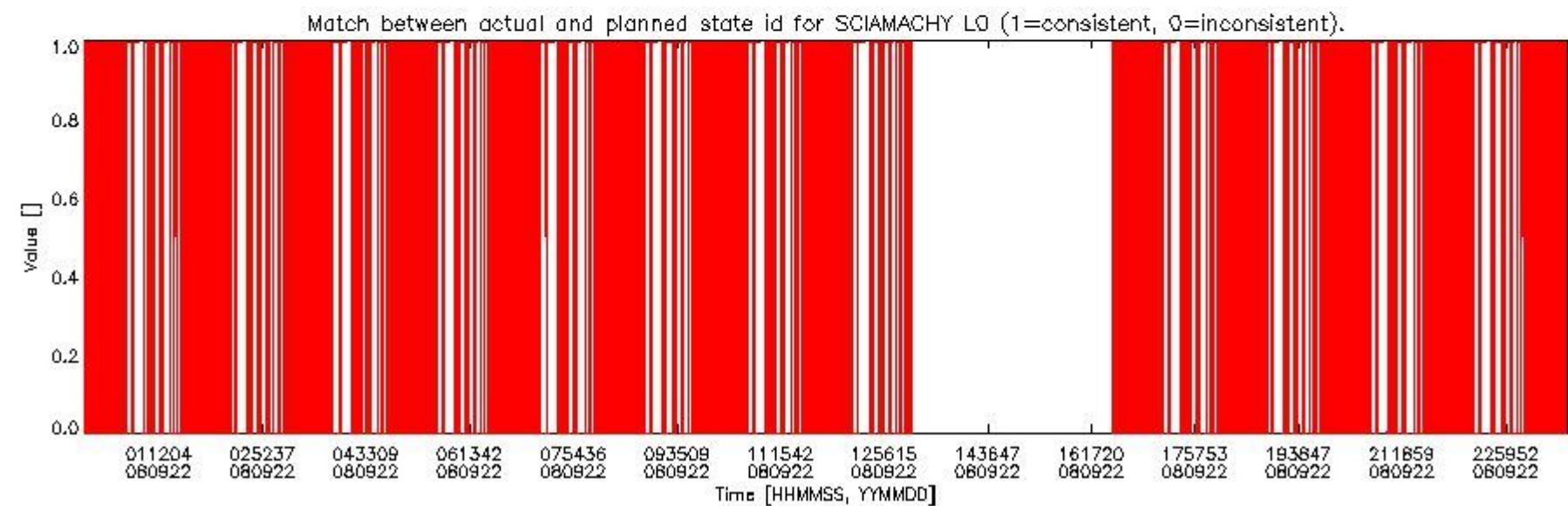
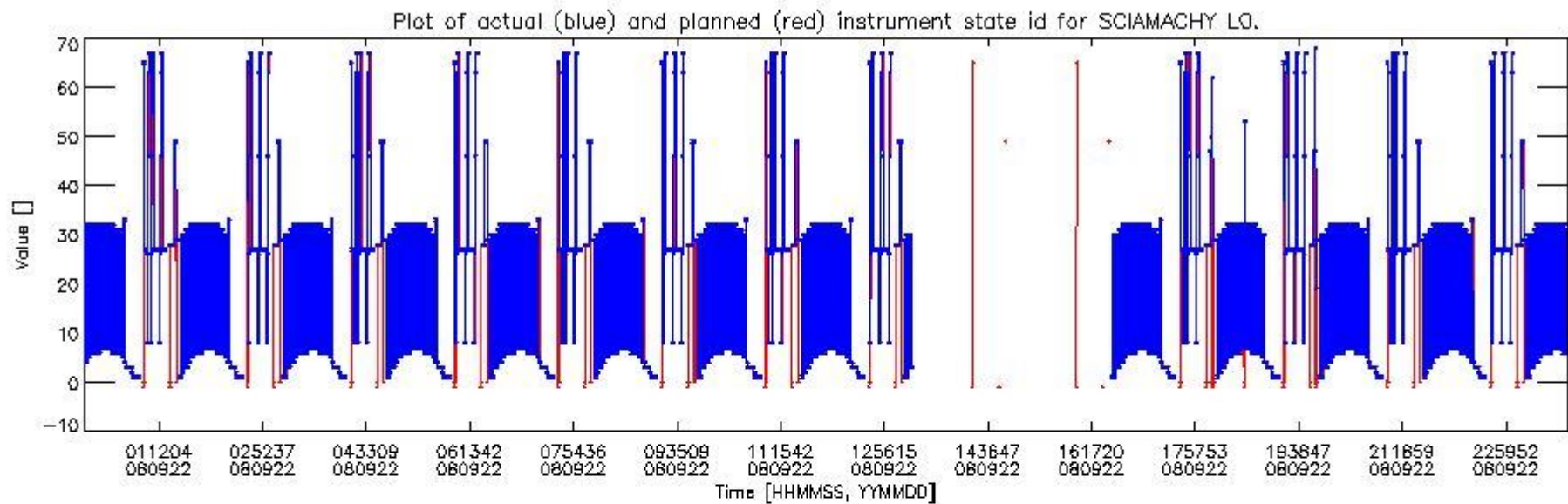


### 0.3 State monitoring

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: **42429**

#	Actual time	Actual value	Planned time	Planned value
0	22SEP2008 00:00:36.008213	32	22SEP2008 00:00:36.008213	4
1	22SEP2008 00:00:36.633235	32	22SEP2008 00:00:36.633235	4
2	22SEP2008 00:00:37.008208	32	22SEP2008 00:00:37.008208	4
3	22SEP2008 00:00:37.383221	32	22SEP2008 00:00:37.383221	4
4	22SEP2008 00:00:37.945721	32	22SEP2008 00:00:37.945721	4
5	22SEP2008 00:00:38.320734	32	22SEP2008 00:00:38.320734	4
6	22SEP2008 00:00:38.695706	32	22SEP2008 00:00:38.695706	4
7	22SEP2008 00:00:39.070719	32	22SEP2008 00:00:39.070719	4
8	22SEP2008 00:00:39.633219	32	22SEP2008 00:00:39.633219	4
9	22SEP2008 00:00:40.008232	32	22SEP2008 00:00:40.008232	4
10	22SEP2008 00:00:40.383245	32	22SEP2008 00:00:40.383245	4
11	22SEP2008 00:00:40.758218	32	22SEP2008 00:00:40.758218	4
12	22SEP2008 00:00:41.008227	32	22SEP2008 00:00:41.008227	4
13	22SEP2008 00:00:41.320717	32	22SEP2008 00:00:41.320717	4
14	22SEP2008 00:00:41.695730	32	22SEP2008 00:00:41.695730	4
15	22SEP2008 00:00:42.070743	32	22SEP2008 00:00:42.070743	4
16	22SEP2008 00:00:42.445716	32	22SEP2008 00:00:42.445716	4
17	22SEP2008 00:00:43.008216	32	22SEP2008 00:00:43.008216	4
18	22SEP2008 00:00:43.383229	32	22SEP2008 00:00:43.383229	4
19	22SEP2008 00:00:43.758242	32	22SEP2008 00:00:43.758242	4
	...	...	...	...



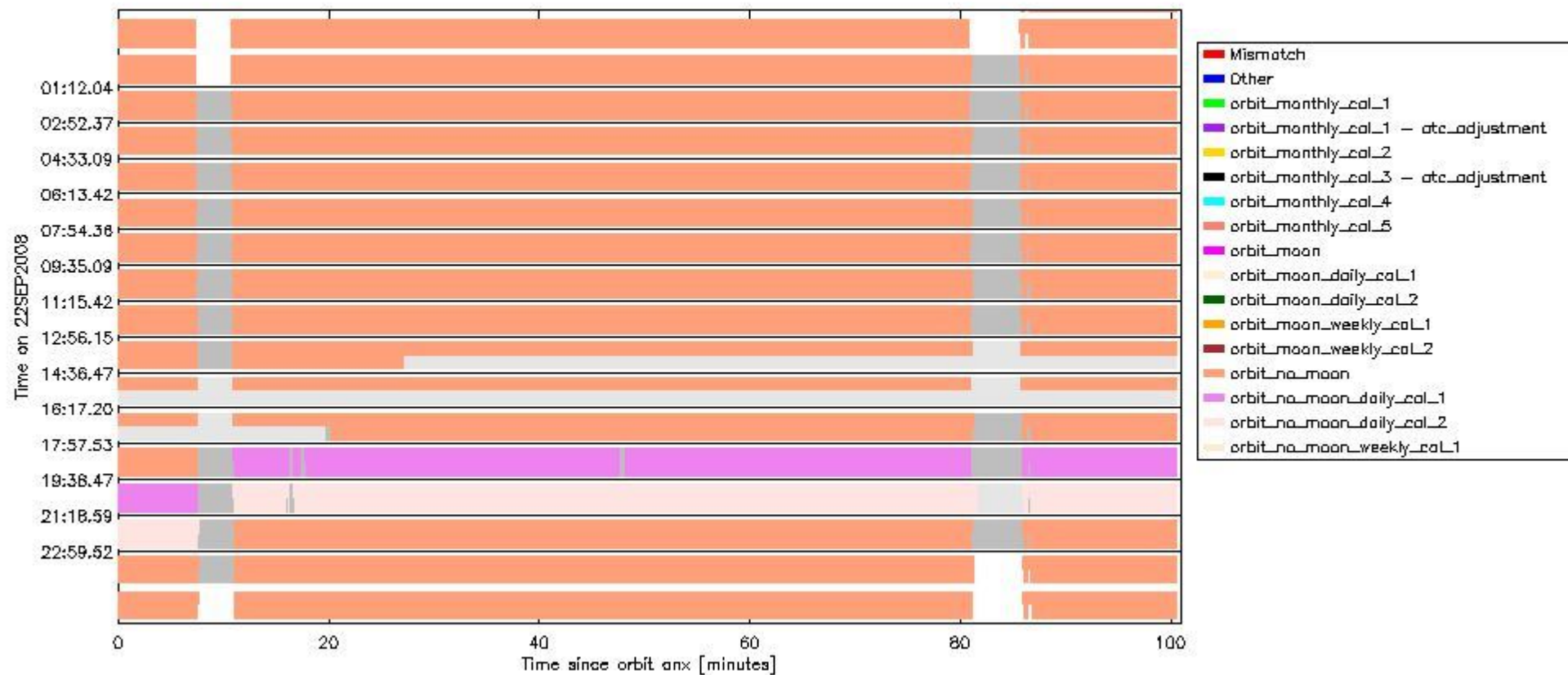
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080922\_5.PNG

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 22SEP2008.  
 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\_20080922\_6.PNG

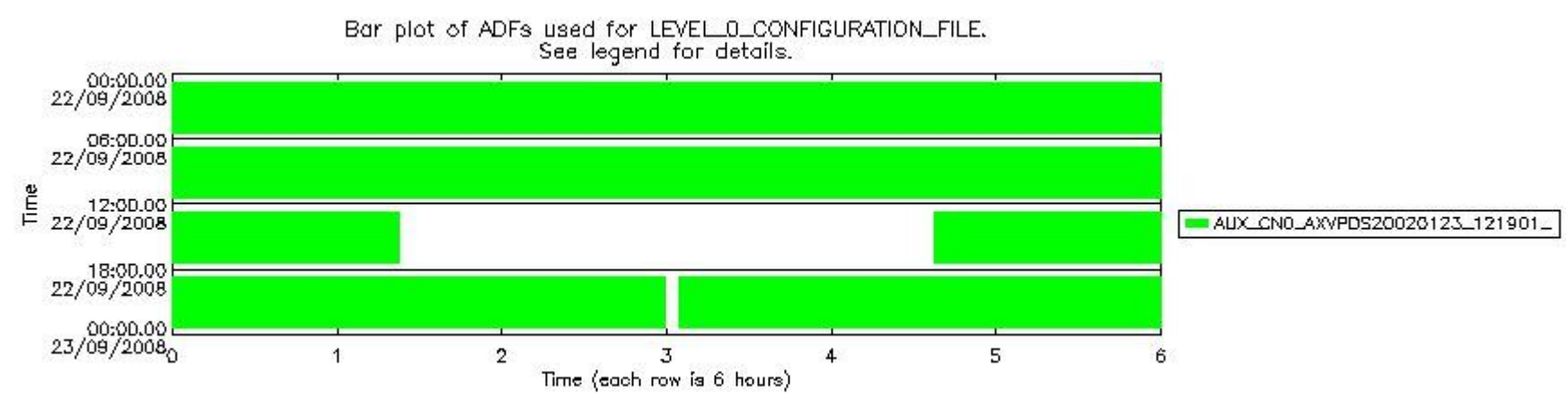
## 0.4 ADF monitoring

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

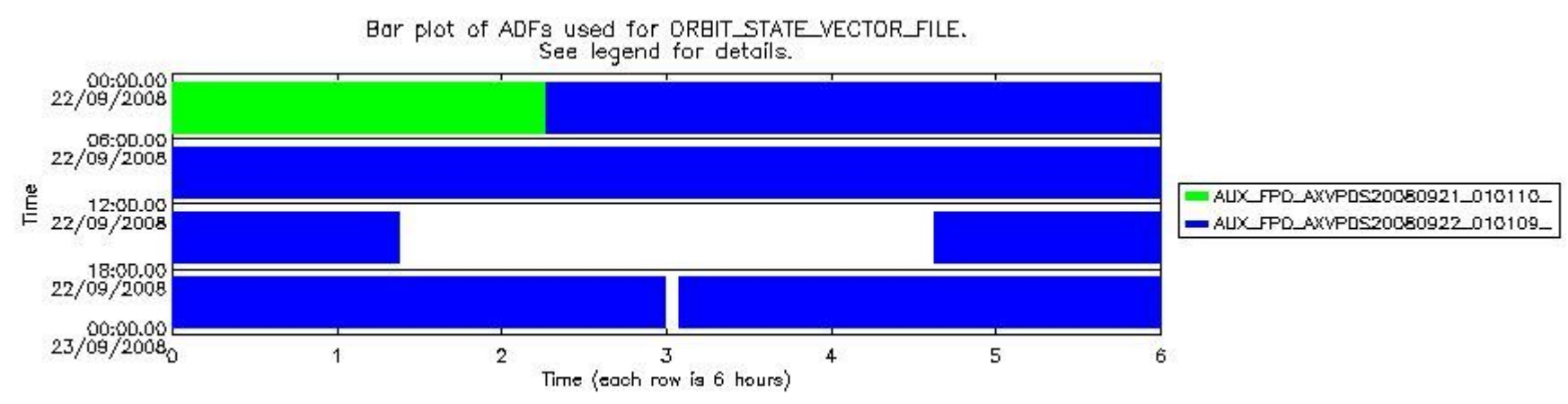
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

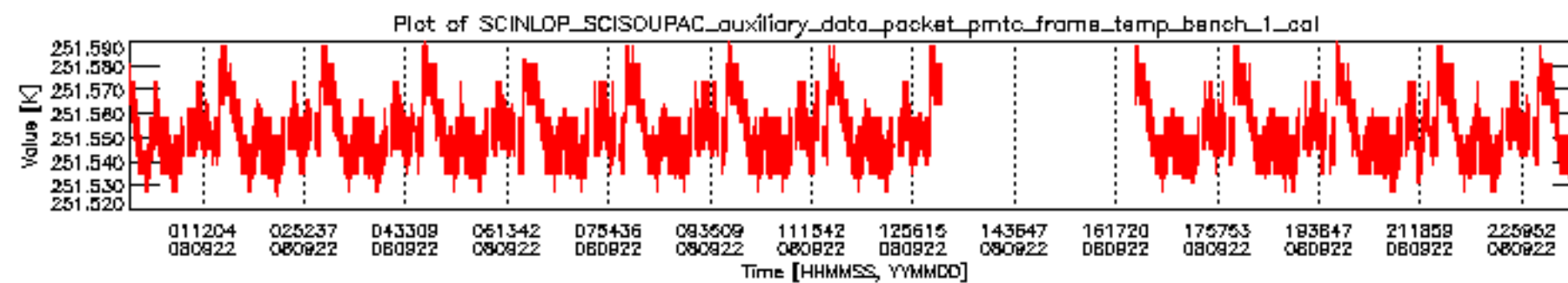
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20080921_010110_20080920_190117_20080930_202731</b>
2	<b>AUX_FPO_AXVPDS20080922_010109_20080921_182940_20081001_213630</b>



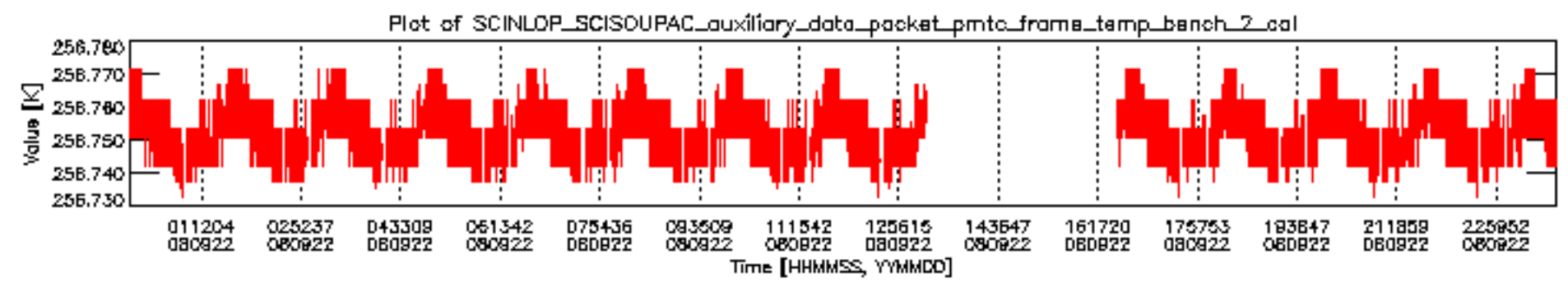
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080922\_7.PNG

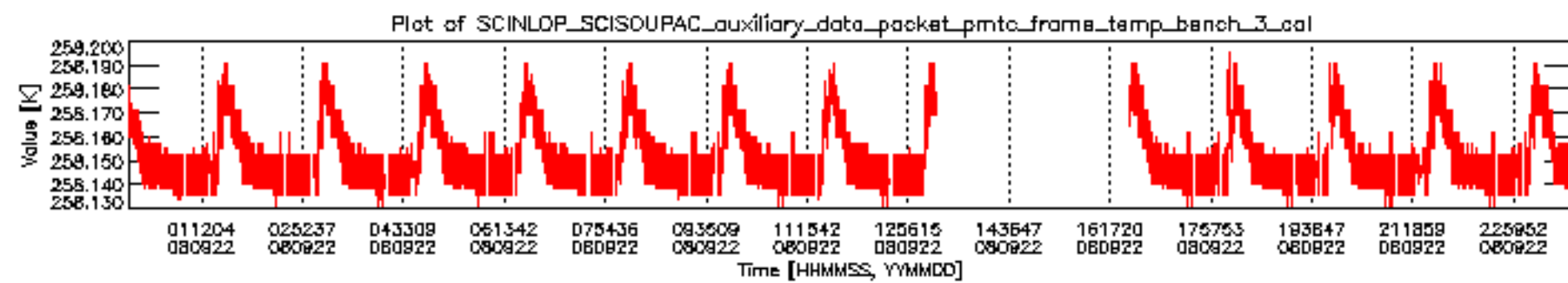


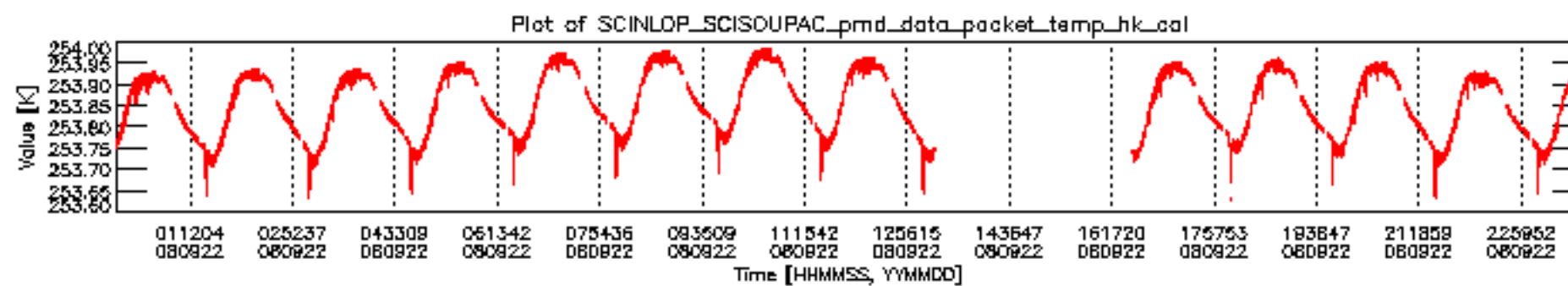
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080922\_8.PNG

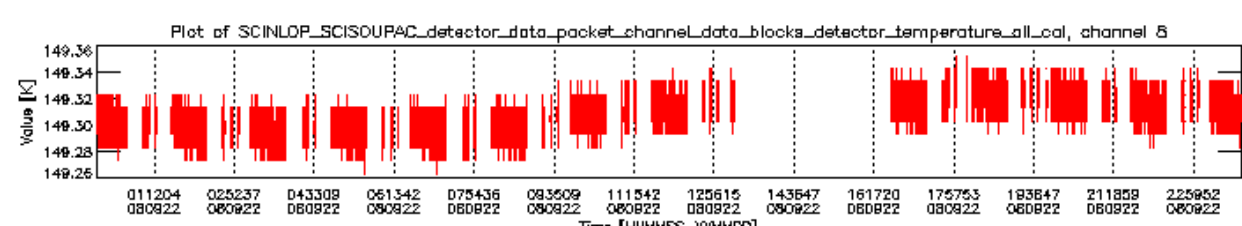
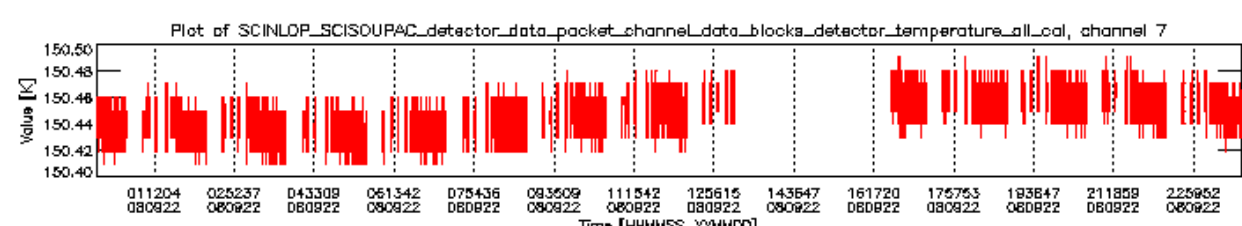
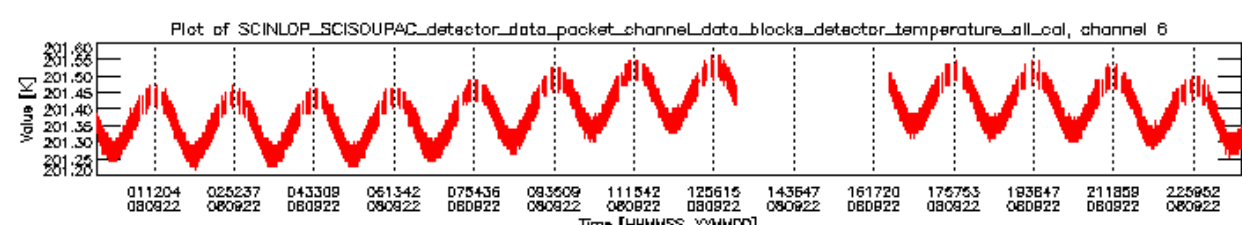
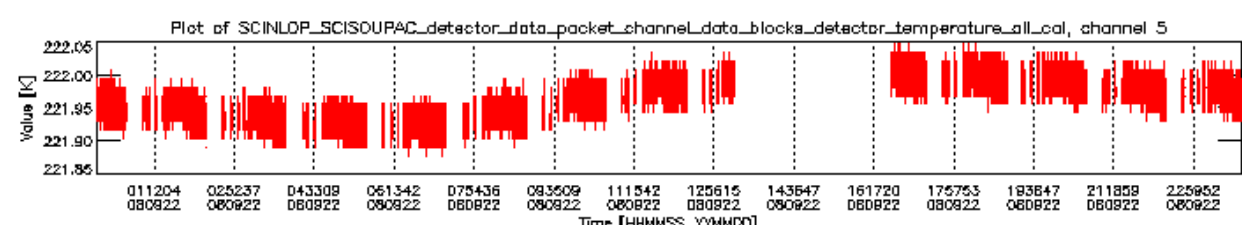
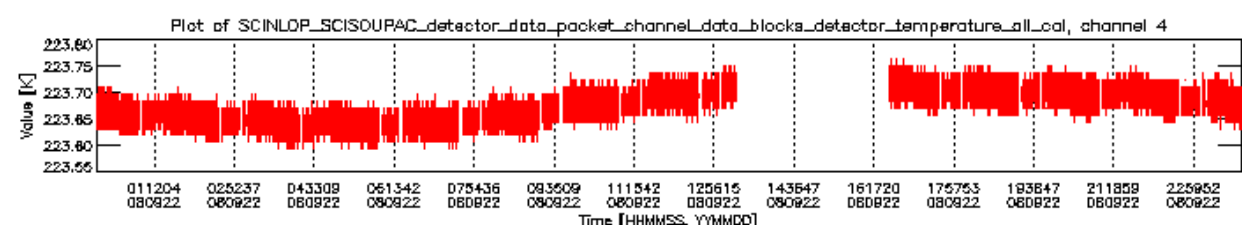
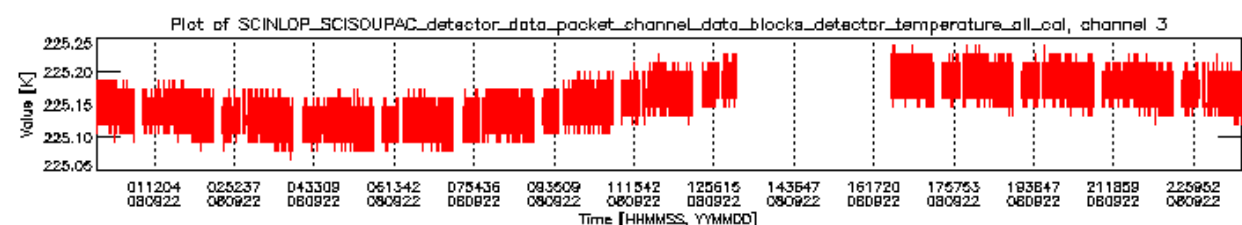
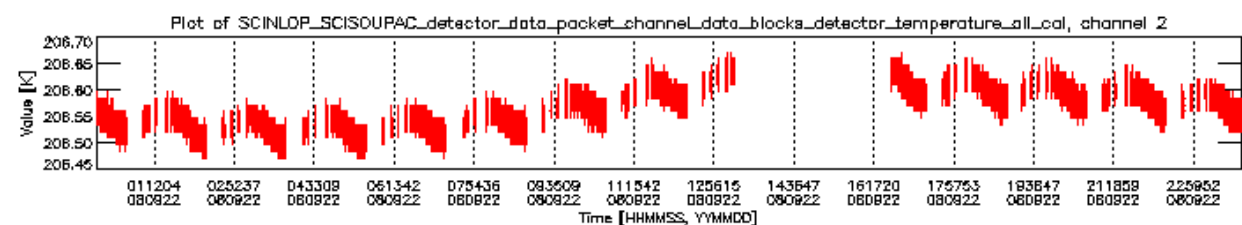
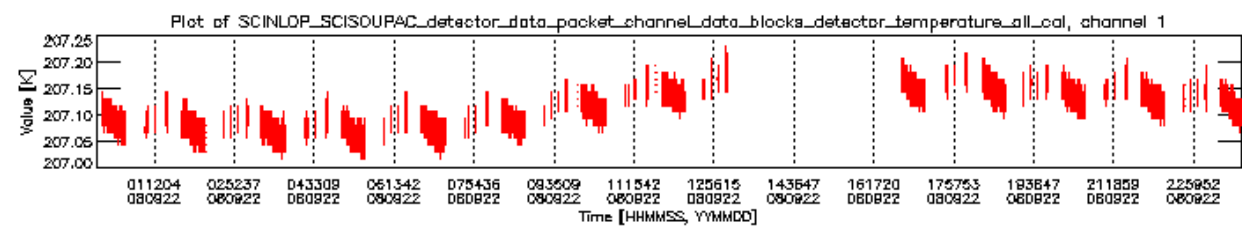




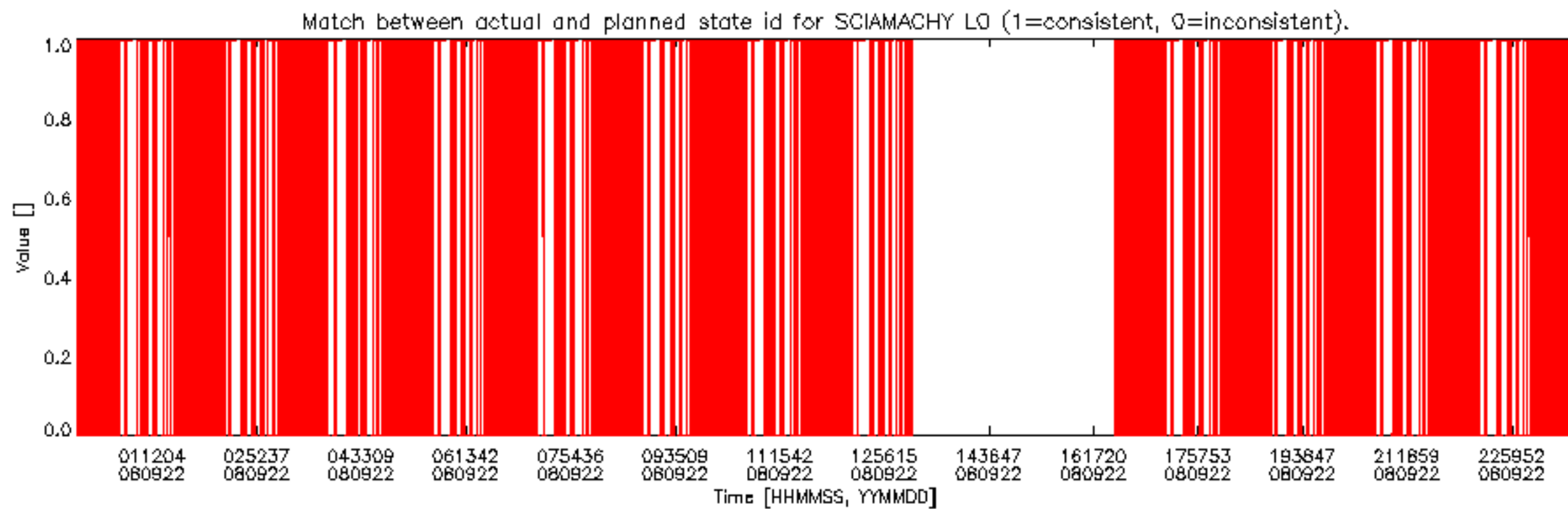
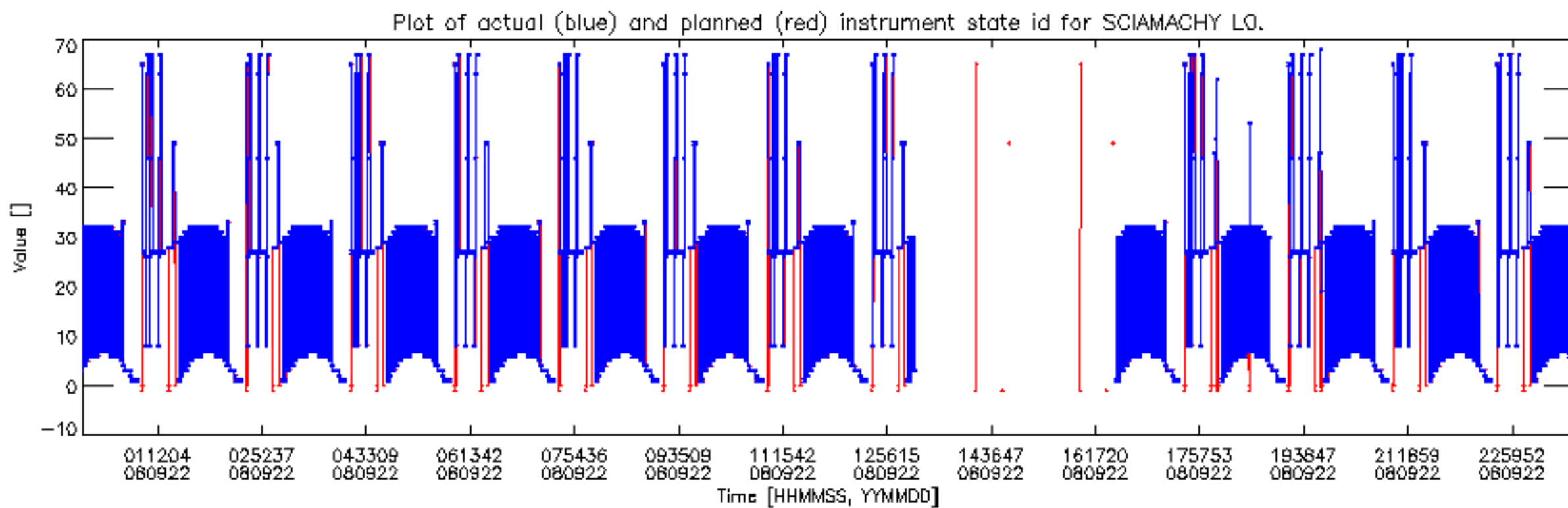




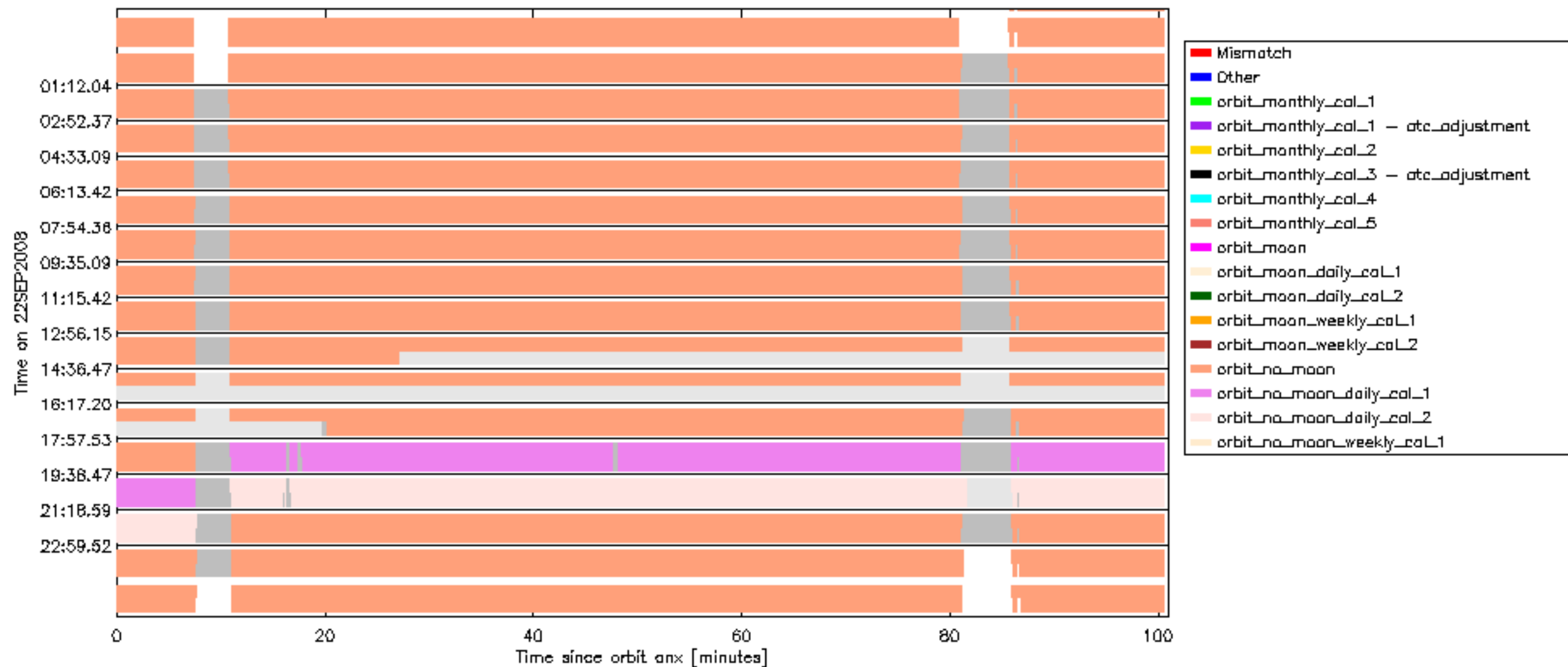


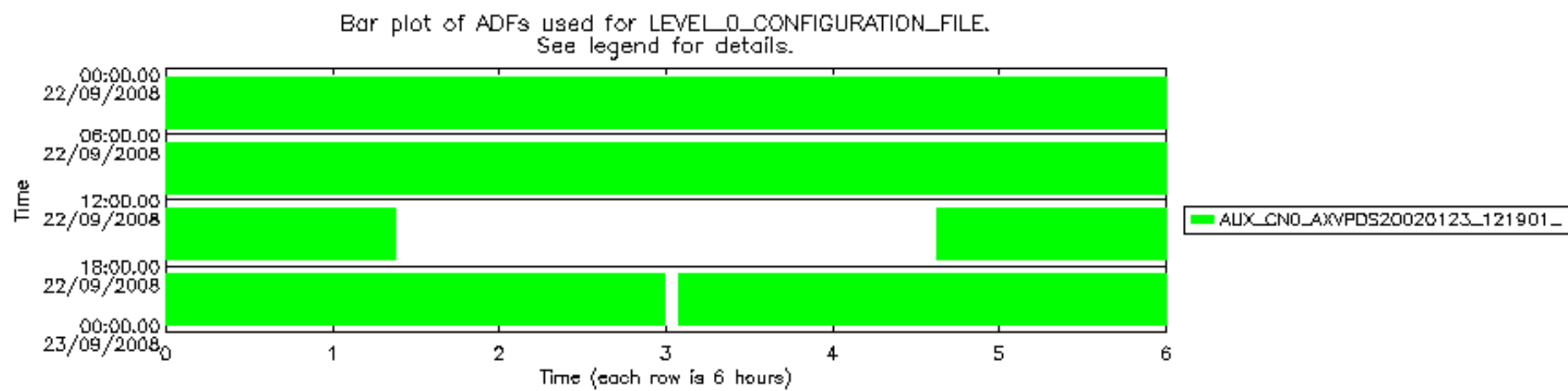






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Bar plot of ADFs used for ORBIT\_STATE\_VECTOR\_FILE.  
See legend for details.

