

## 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	v1.4 20100407
Time of report generation	17SEP2011 03:02:01
Data source version	KSPT_L0/4504-N
Processing scope for products	10SEP2011 00:00:00 to 11SEP2011 00:00:00
Start time of first product within scope	10SEP2011 00:48:51
Stop time of last product within scope	11SEP2011 00:12:47
Total number of Level 0 products	15
Number of Level 0 products with errors	0

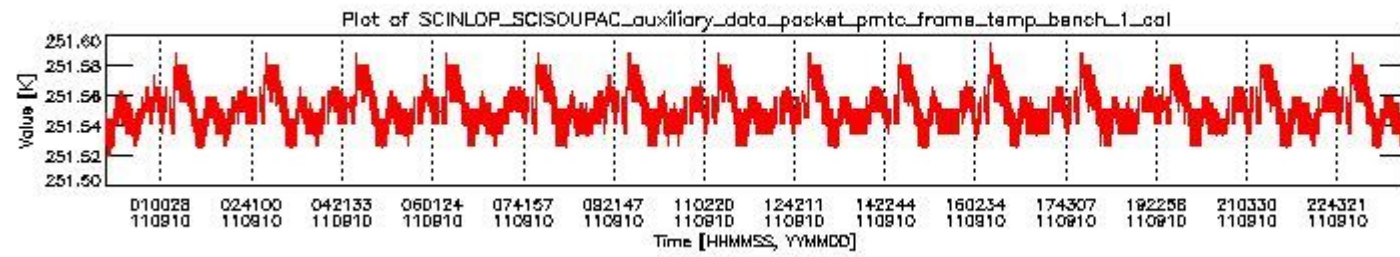
### 0.1.2 Summary per product

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

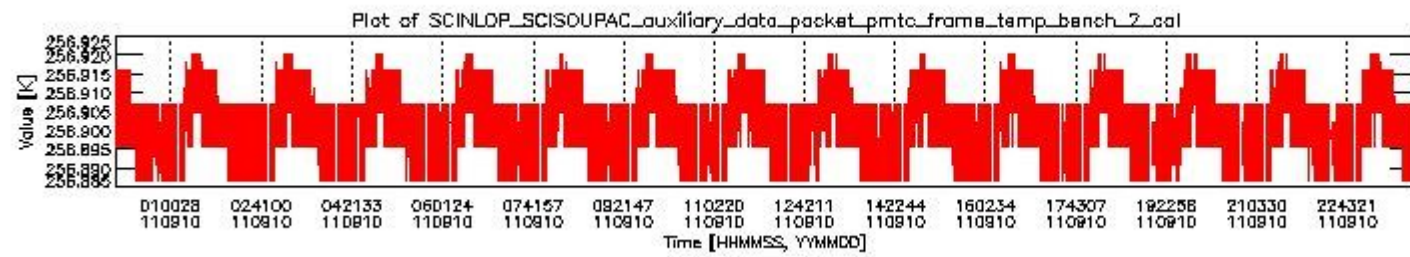
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20110910_004851_000054923106_00246_49829_7118.N1	10SEP2011 00:48:51	10SEP2011 02:20:23	0	0	0	0	0
1	SCI_NL__OPNPDE20110910_022023_000047853106_00247_49830_7119.N1	10SEP2011 02:20:23	10SEP2011 03:40:07	0	0	0	0	0
2	SCI_NL__OPNPDE20110910_033859_000061373106_00248_49831_7120.N1	10SEP2011 03:38:59	10SEP2011 05:21:16	0	0	0	0	0
3	SCI_NL__OPNPDE20110910_052022_000060693106_00249_49832_7121.N1	10SEP2011 05:20:22	10SEP2011 07:01:31	0	0	0	0	0
4	SCI_NL__OPNPDK20110910_070037_000041053106_00250_49833_5641.N1	10SEP2011 07:00:37	10SEP2011 08:09:01	0	0	0	0	0
5	SCI_NL__OPNPDK20110910_080807_000061373106_00251_49834_5642.N1	10SEP2011 08:08:07	10SEP2011 09:50:24	0	0	0	0	0
6	SCI_NL__OPNPDK20110910_094916_000060143106_00252_49835_5643.N1	10SEP2011 09:49:16	10SEP2011 11:29:30	0	0	0	0	0
7	SCI_NL__OPNPDK20110910_112836_000060143106_00253_49836_5644.N1	10SEP2011 11:28:36	10SEP2011 13:08:50	0	0	0	0	0
8	SCI_NL__OPNPDK20110910_130742_000059603106_00254_49837_5645.N1	10SEP2011 13:07:42	10SEP2011 14:47:02	0	0	0	0	0
9	SCI_NL__OPNPDK20110910_144554_000058383106_00255_49838_5646.N1	10SEP2011 14:45:54	10SEP2011 16:23:11	0	0	0	0	0
10	SCI_NL__OPNPDK20110910_162203_000059193106_00256_49839_5647.N1	10SEP2011 16:22:03	10SEP2011 18:00:42	0	0	0	0	0
11	SCI_NL__OPNPDK20110910_175948_000060153106_00257_49840_5648.N1	10SEP2011 17:59:48	10SEP2011 19:40:02	0	0	0	0	0
12	SCI_NL__OPNPDK20110910_193908_000060563106_00258_49841_5649.N1	10SEP2011 19:39:08	10SEP2011 21:20:04	0	0	0	0	0
13	SCI_NL__OPNPDE20110910_211652_000044093106_00259_49842_7122.N1	10SEP2011 21:16:52	10SEP2011 22:30:20	0	0	0	0	0
14	SCI_NL__OPNPDE20110910_223020_000061473106_00259_49842_7123.N1	10SEP2011 22:30:20	11SEP2011 00:12:47	0	0	0	0	0

## 0.2 Product Quality Indicators

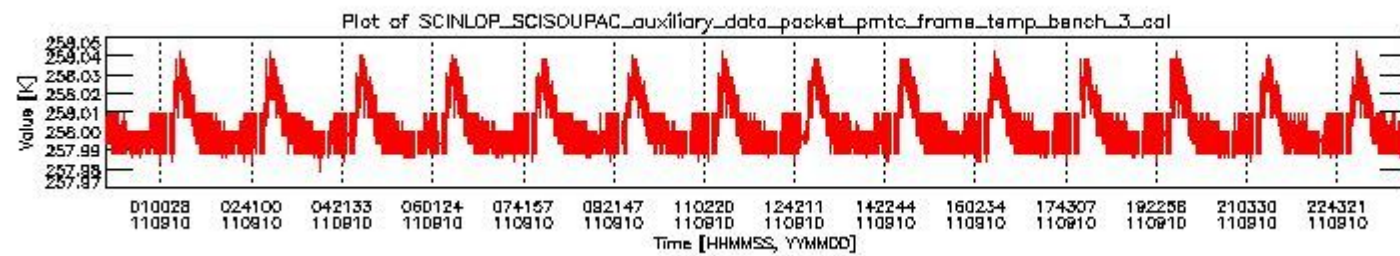
This section shows information about product quality, currently temperatures.



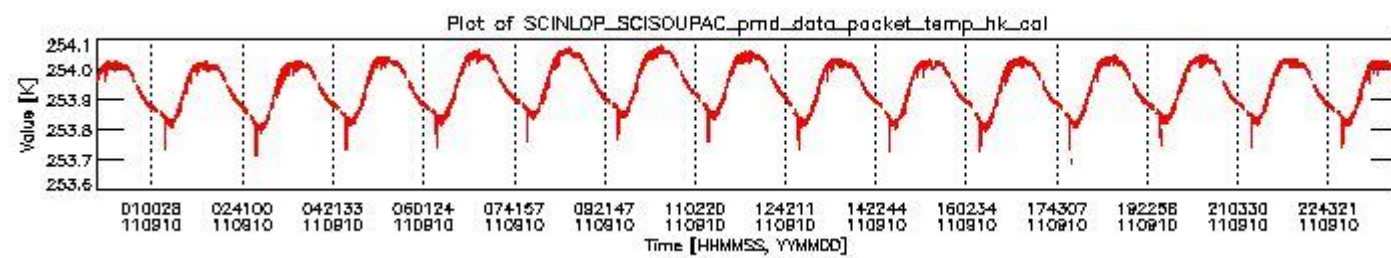
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110910\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110910\_1.PNG

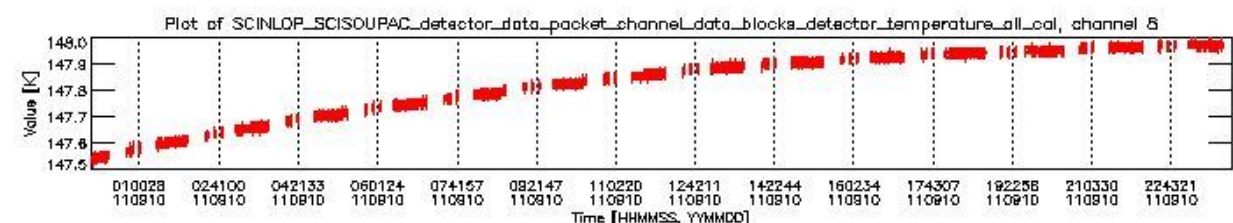
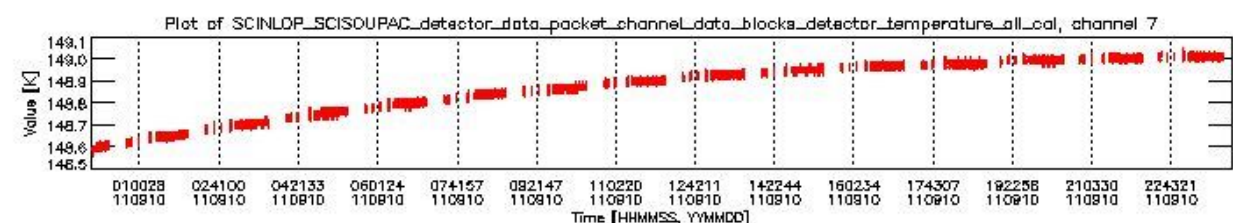
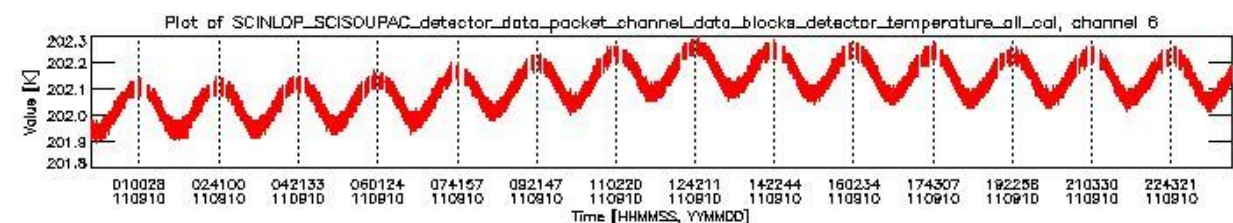
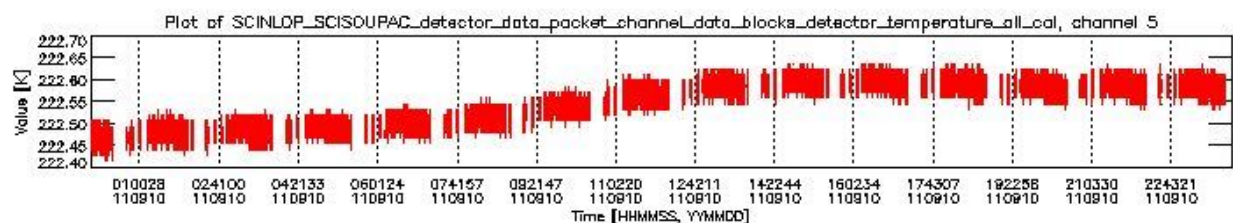
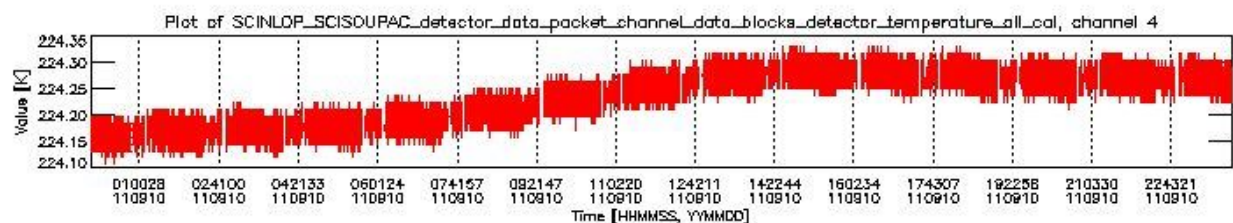
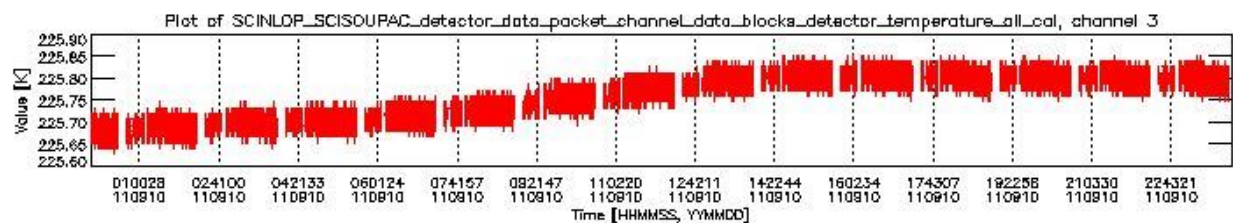
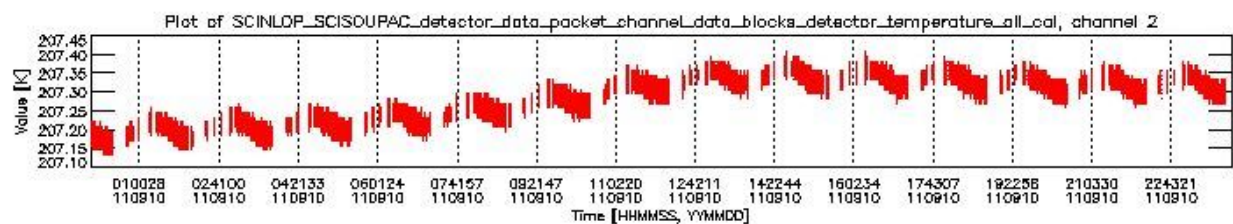
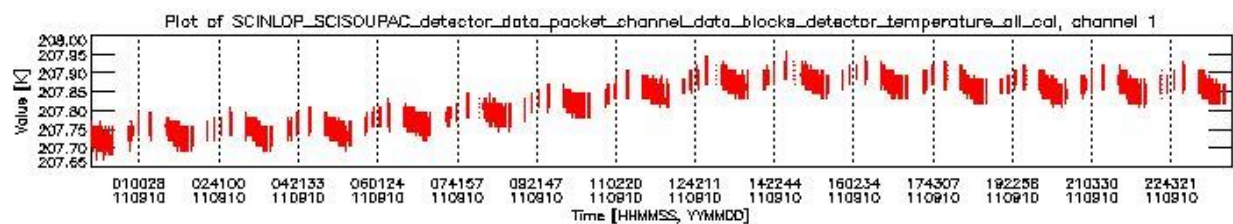


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sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110910\_3.PNG



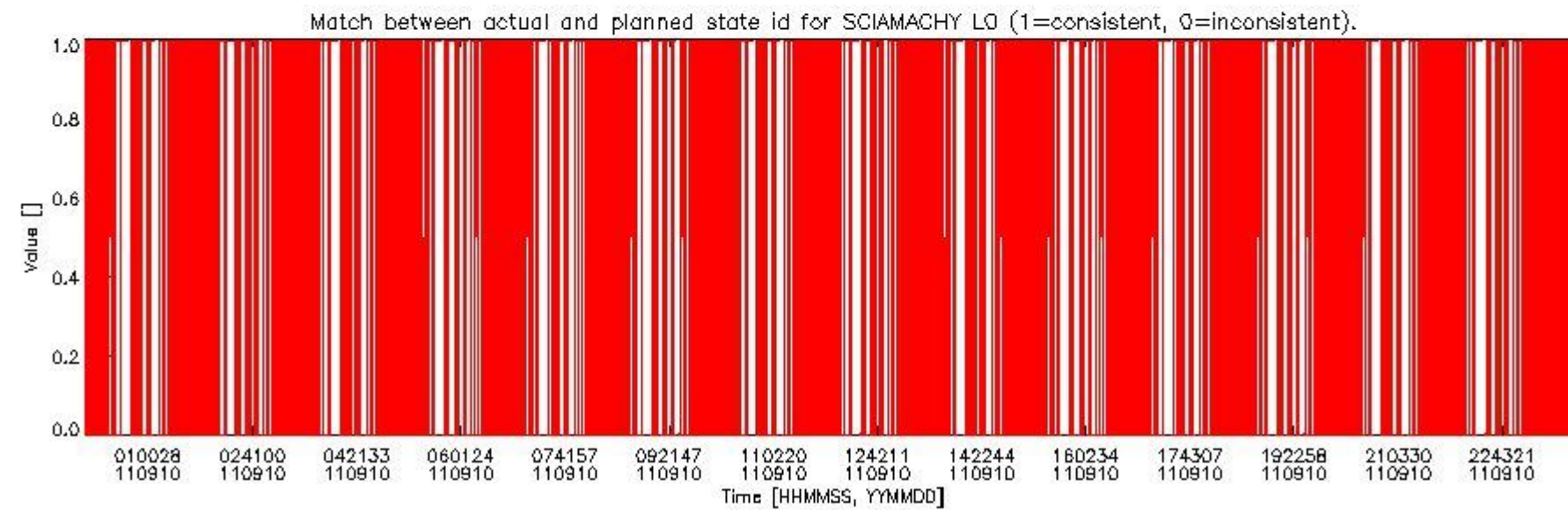
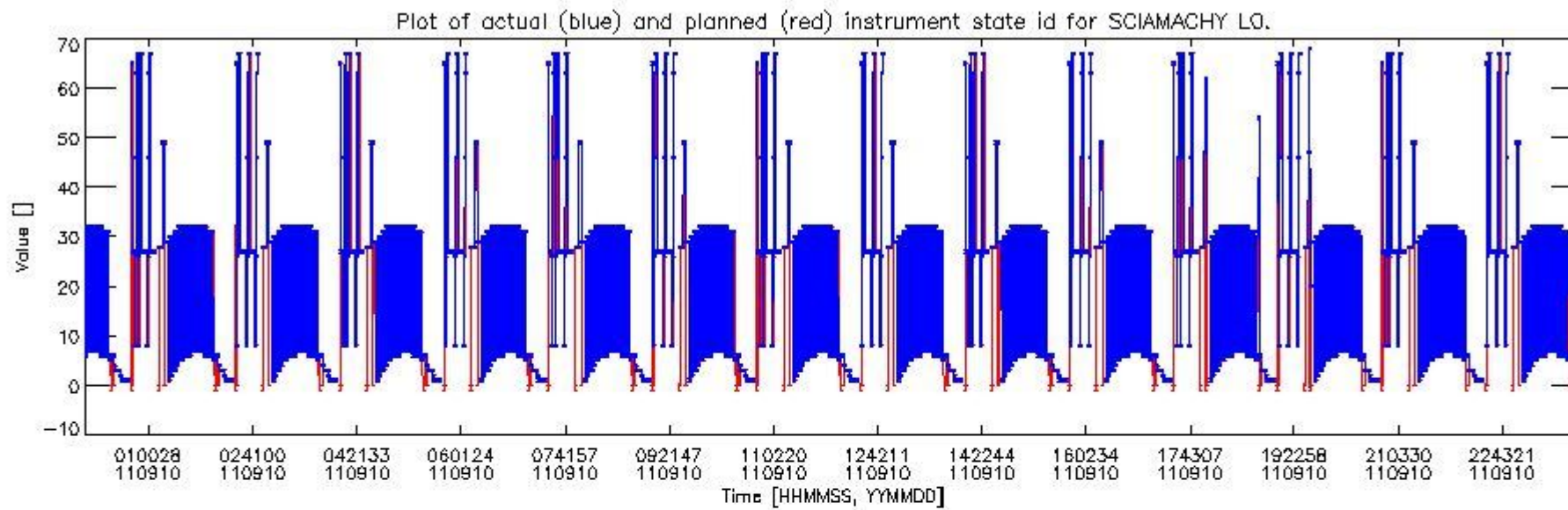


### 0.3 State monitoring

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: **60968**

#	Actual time	Actual value	Planned time	Planned value
0	10SEP2011 00:00:05.868096	6	10SEP2011 00:00:05.868096	32
1	10SEP2011 00:00:06.243096	6	10SEP2011 00:00:06.243096	32
2	10SEP2011 00:00:06.493096	6	10SEP2011 00:00:06.493096	32
3	10SEP2011 00:00:06.743096	6	10SEP2011 00:00:06.743096	32
4	10SEP2011 00:00:06.993096	6	10SEP2011 00:00:06.993096	32
5	10SEP2011 00:00:07.243096	6	10SEP2011 00:00:07.243096	32
6	10SEP2011 00:00:07.493096	6	10SEP2011 00:00:07.493096	32
7	10SEP2011 00:00:07.743096	6	10SEP2011 00:00:07.743096	32
8	10SEP2011 00:00:07.993096	6	10SEP2011 00:00:07.993096	32
9	10SEP2011 00:00:08.243096	6	10SEP2011 00:00:08.243096	32
10	10SEP2011 00:00:08.493096	6	10SEP2011 00:00:08.493096	32
11	10SEP2011 00:00:08.743096	6	10SEP2011 00:00:08.743096	32
12	10SEP2011 00:00:08.993096	6	10SEP2011 00:00:08.993096	32
13	10SEP2011 00:00:09.243096	6	10SEP2011 00:00:09.243096	32
14	10SEP2011 00:00:09.493096	6	10SEP2011 00:00:09.493096	32
15	10SEP2011 00:00:09.743096	6	10SEP2011 00:00:09.743096	32
16	10SEP2011 00:00:09.993096	6	10SEP2011 00:00:09.993096	32
17	10SEP2011 00:00:10.243096	6	10SEP2011 00:00:10.243096	32
18	10SEP2011 00:00:10.493096	6	10SEP2011 00:00:10.493096	32
19	10SEP2011 00:00:10.743096	6	10SEP2011 00:00:10.743096	32
...	...	...	...	...



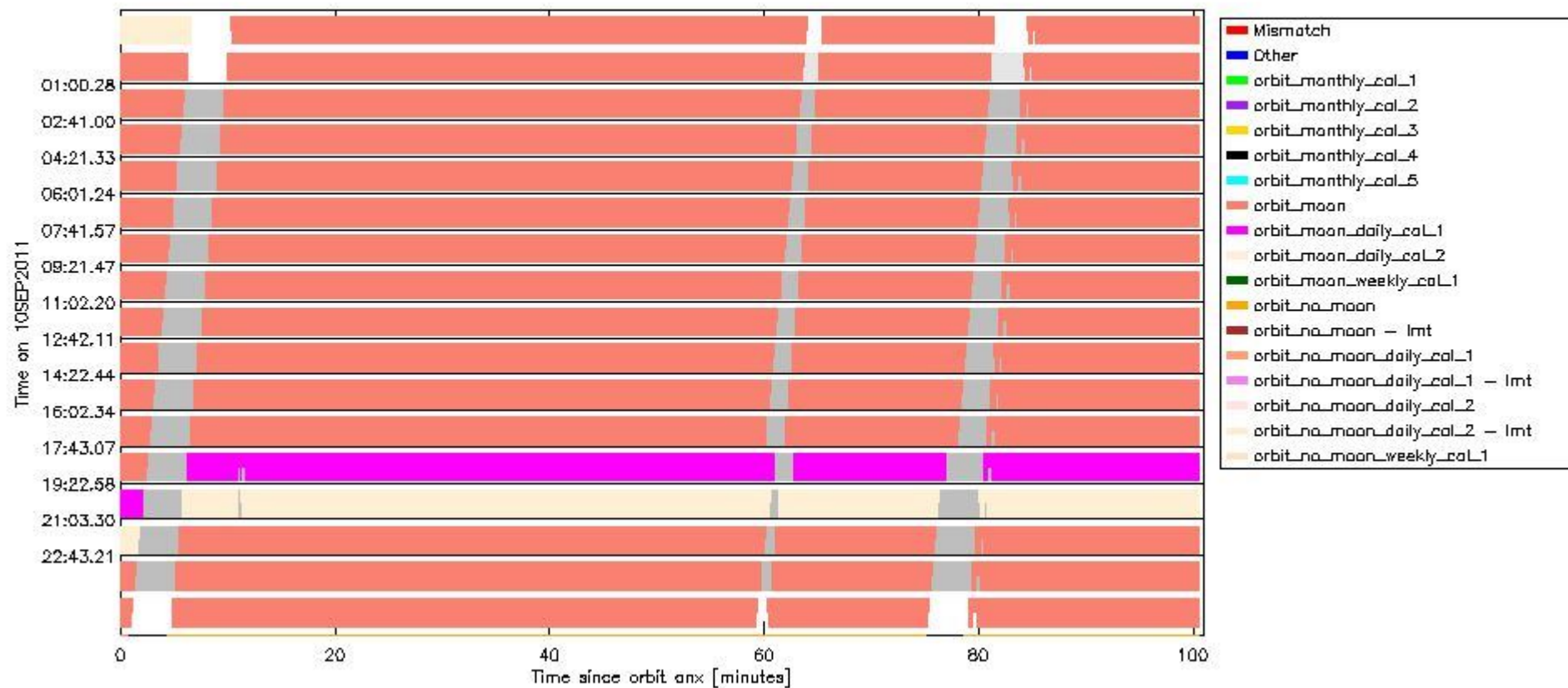
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110910\_5.PNG

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 10SEP2011.  
 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\_4504\_N\_20110910\_6.PNG

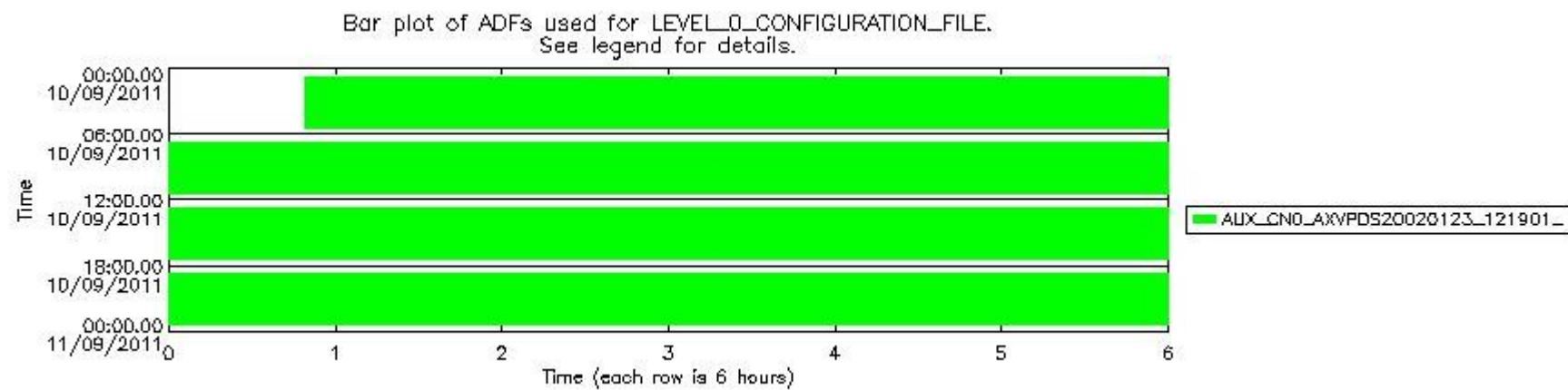
## 0.4 ADF monitoring

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

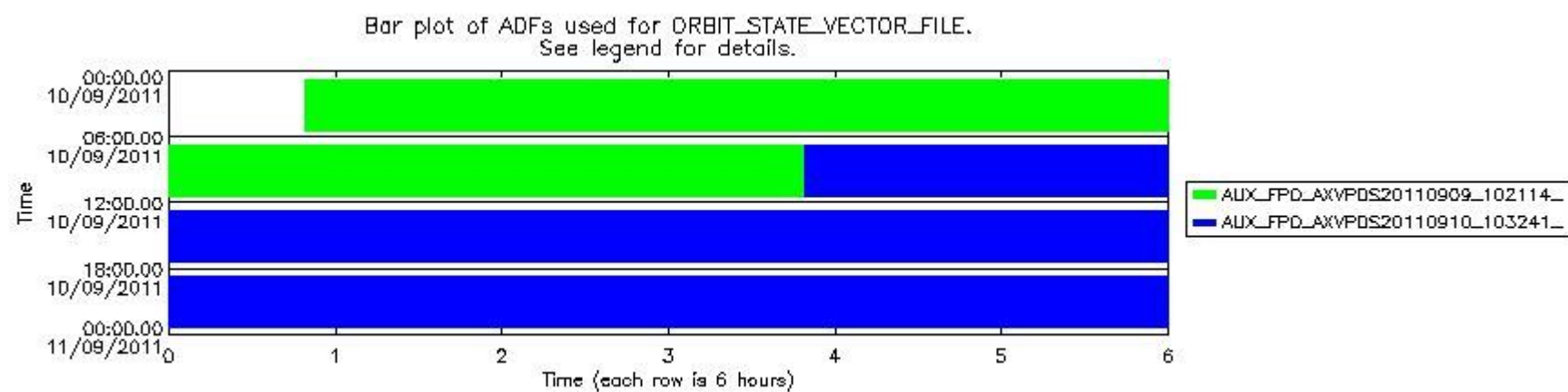
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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_AXVPDS20110909_102114_20110908_185630_20110918_211015
2	AUX_FPO_AXVPDS20110910_103241_20110909_181945_20110919_203331



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110910\_7.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4504\_N\_20110910\_8.PNG

