

## 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	12JUN2010 02:31:38
Data source version	<Any version>
Processing scope for products	05JUN2010 00:00:00 to 06JUN2010 00:00:00
Start time of first product within scope	05JUN2010 00:42:48
Stop time of last product within scope	06JUN2010 00:11:09
Total number of Level 0 products	16
Number of Level 0 products with errors	1

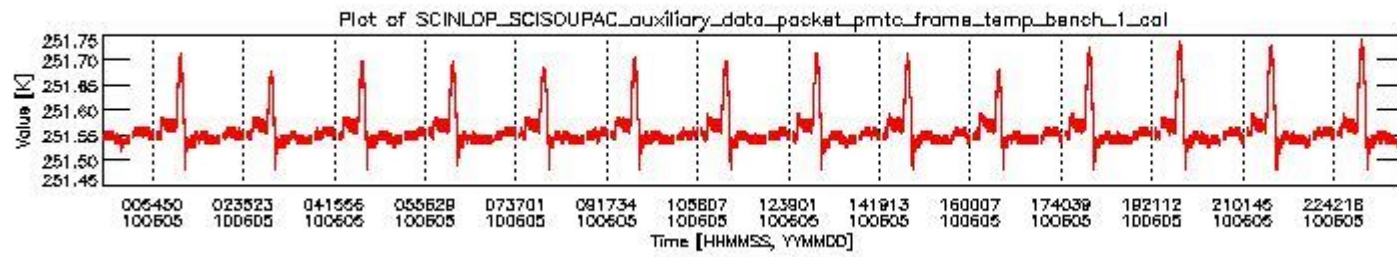
### 0.1.2 Summary per product

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

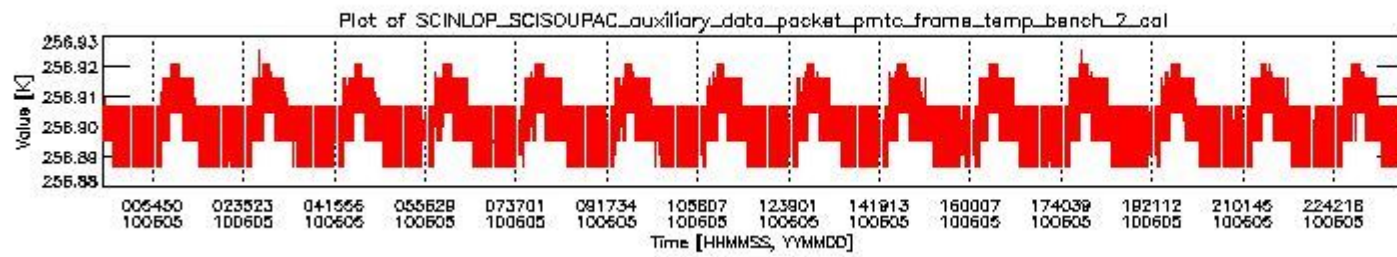
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100605_004248_000058152090_00059_43199_1587.N1	05JUN2010 00:42:48	05JUN2010 02:19:43	0	0	0	0	0
1	SCI_NL__OPNPDE20100605_021820_000046082090_00060_43200_1588.N1	05JUN2010 02:18:20	05JUN2010 03:35:08	0	0	0	0	0
2	SCI_NL__OPNPDE20100605_033508_000061042090_00061_43201_1589.N1	05JUN2010 03:35:08	05JUN2010 05:16:52	0	0	0	0	0
3	SCI_NL__OPNPDE20100605_051652_000060362090_00062_43202_1590.N1	05JUN2010 05:16:52	05JUN2010 06:57:28	0	0	0	0	0
4	SCI_NL__OPNPDK20100605_065619_000040582090_00063_43203_1586.N1	05JUN2010 06:56:19	05JUN2010 08:03:57	0	0	0	0	0
5	SCI_NL__OPNPDK20100605_080357_000061472090_00064_43204_1587.N1	05JUN2010 08:03:57	05JUN2010 09:46:25	0	0	0	0	0
6	SCI_NL__OPNPDK20100605_094625_000059802090_00065_43205_1588.N1	05JUN2010 09:46:25	05JUN2010 11:26:04	0	0	0	0	0
7	SCI_NL__OPNPDK20100605_112509_000060232090_00066_43206_1589.N1	05JUN2010 11:25:09	05JUN2010 13:05:32	0	0	0	0	0
8	SCI_NL__OPNPDK20100605_130532_000059242090_00067_43207_1590.N1	05JUN2010 13:05:32	05JUN2010 14:44:16	0	0	0	0	0
9	SCI_NL__OPNPDK20100605_144307_000058432090_00068_43208_1591.N1	05JUN2010 14:43:07	05JUN2010 16:20:30	0	0	0	0	0
10	SCI_NL__OPNPDK20100605_161934_000058292090_00069_43209_1592.N1	05JUN2010 16:19:34	05JUN2010 17:56:43	0	0	0	0	0
11	SCI_NL__OPNPDK20100605_175547_000061892090_00070_43210_1595.N1	05JUN2010 17:55:47	05JUN2010 19:38:56	1	1	0	0	0
12	SCI_NL__OPNPDK20100605_184212_000034042090_00070_43210_1594.N1	05JUN2010 18:42:12	05JUN2010 19:38:56	0	0	0	0	0
13	SCI_NL__OPNPDE20100605_193748_000041532090_00071_43211_1591.N1	05JUN2010 19:37:48	05JUN2010 20:47:01	0	0	0	0	0
14	SCI_NL__OPNPDE20100605_204533_000062882090_00071_43211_1592.N1	05JUN2010 20:45:33	05JUN2010 22:30:21	0	0	0	0	0
15	SCI_NL__OPNPDE20100605_222857_000061322090_00072_43212_1593.N1	05JUN2010 22:28:57	06JUN2010 00:11:09	0	0	0	0	0

## 0.2 Product Quality Indicators

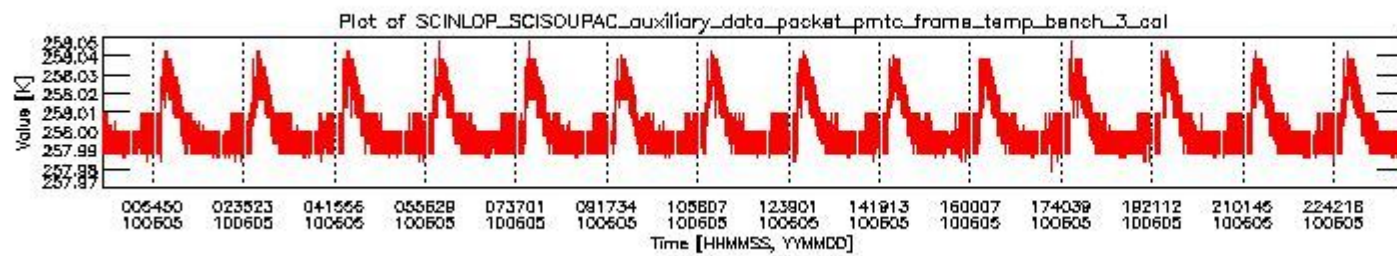
This section shows information about product quality, currently temperatures.



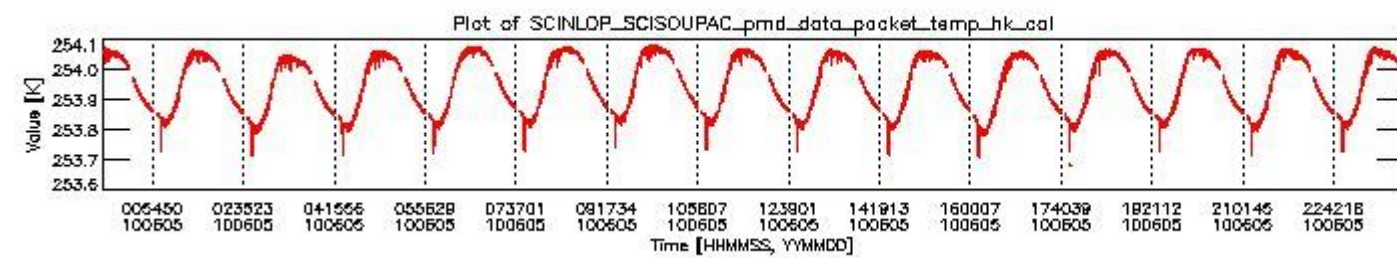
sciamachy\_daily\_report\_level0\_Any\_version\_20100605\_0.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100605\_1.PNG

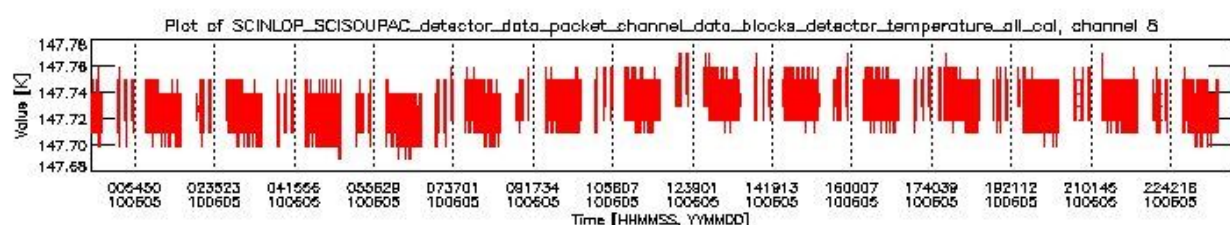
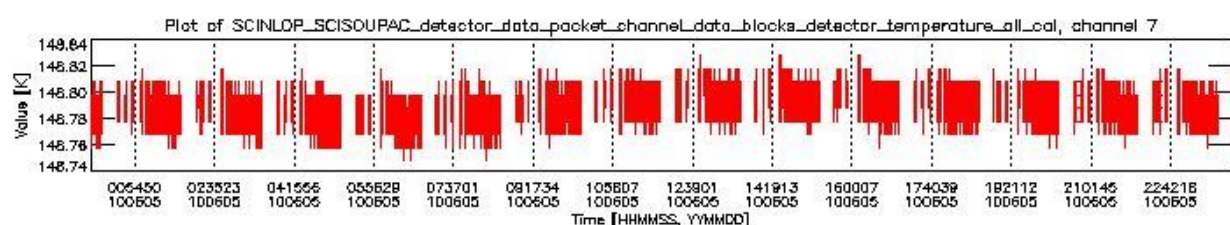
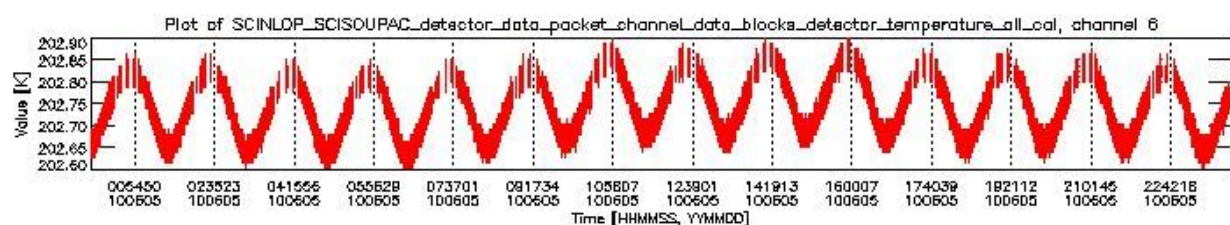
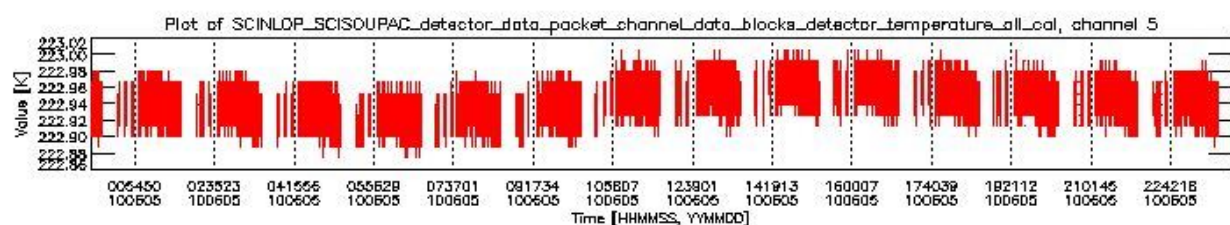
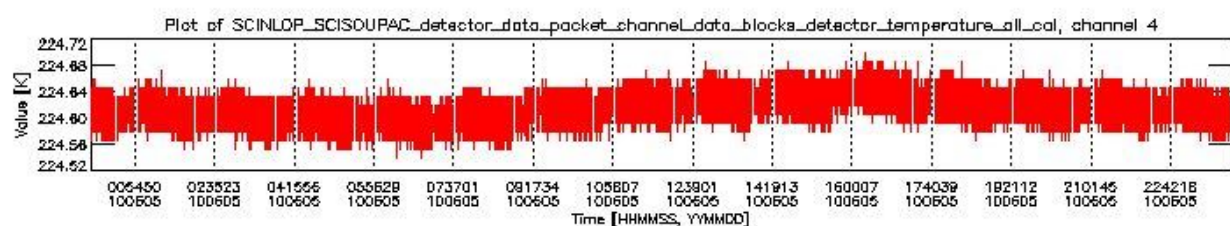
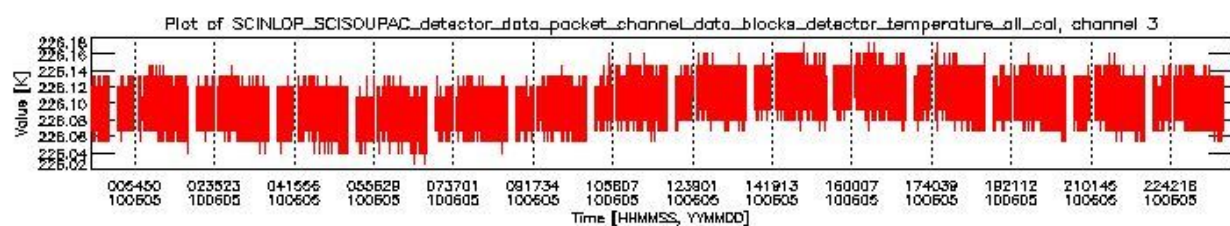
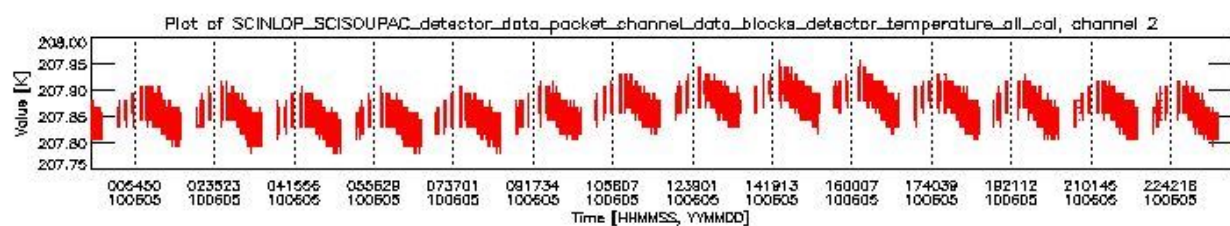
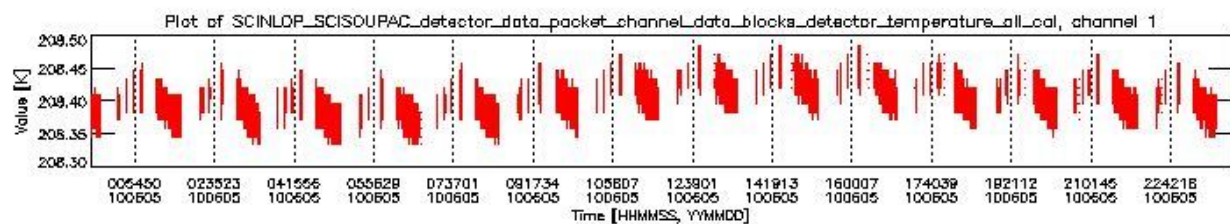


sciamachy\_daily\_report\_level0\_Any\_version\_20100605\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100605\_3.PNG



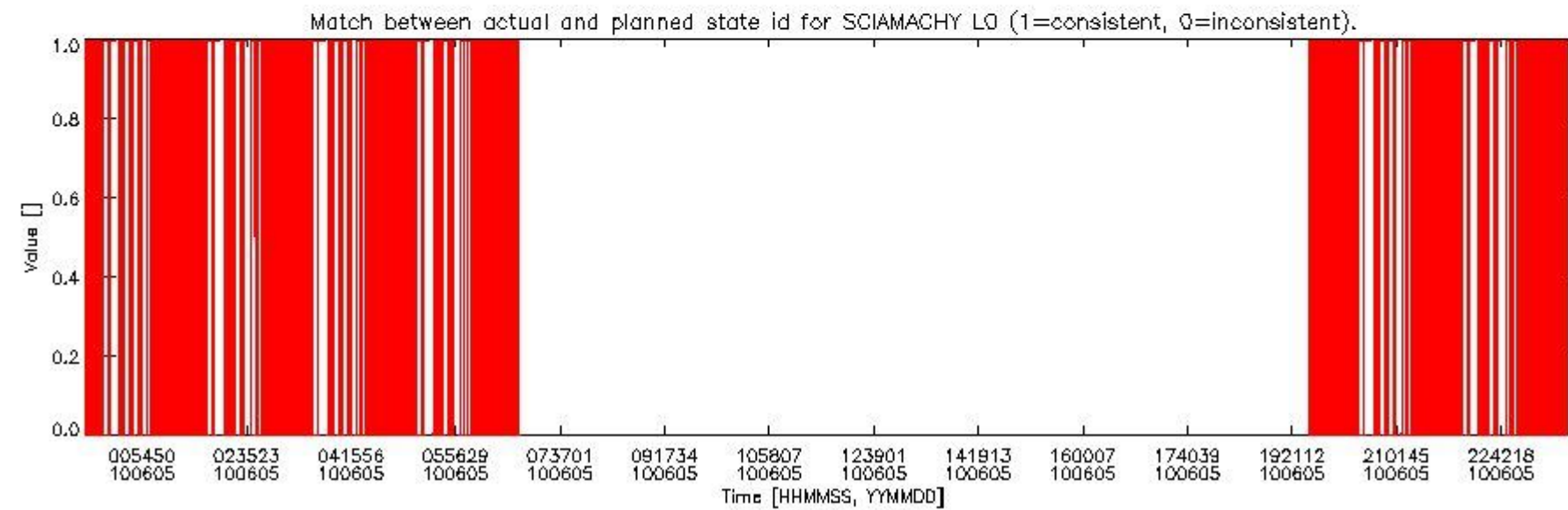
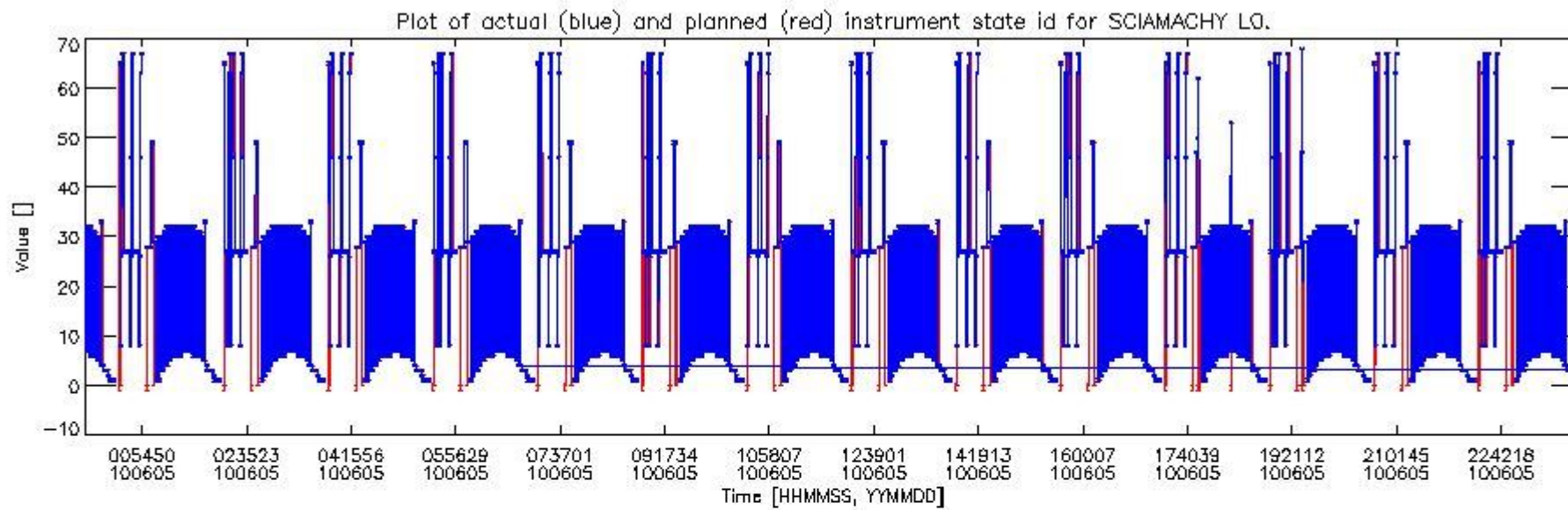


### 0.3 State monitoring

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: **44125**

#	Actual time	Actual value	Planned time	Planned value
0	05JUN2010 00:00:34.314665	32	05JUN2010 00:00:34.314665	7
1	05JUN2010 00:00:34.939665	32	05JUN2010 00:00:34.939665	7
2	05JUN2010 00:00:35.314665	32	05JUN2010 00:00:35.314665	7
3	05JUN2010 00:00:35.689665	32	05JUN2010 00:00:35.689665	7
4	05JUN2010 00:00:36.252165	32	05JUN2010 00:00:36.252165	7
5	05JUN2010 00:00:36.627165	32	05JUN2010 00:00:36.627165	7
6	05JUN2010 00:00:37.002165	32	05JUN2010 00:00:37.002165	7
7	05JUN2010 00:00:37.377165	32	05JUN2010 00:00:37.377165	7
8	05JUN2010 00:00:37.939665	32	05JUN2010 00:00:37.939665	7
9	05JUN2010 00:00:38.314665	32	05JUN2010 00:00:38.314665	7
10	05JUN2010 00:00:38.689665	32	05JUN2010 00:00:38.689665	7
11	05JUN2010 00:00:39.064665	32	05JUN2010 00:00:39.064665	7
12	05JUN2010 00:00:39.314665	32	05JUN2010 00:00:39.314665	7
13	05JUN2010 00:00:39.627165	32	05JUN2010 00:00:39.627165	7
14	05JUN2010 00:00:40.002165	32	05JUN2010 00:00:40.002165	7
15	05JUN2010 00:00:40.377165	32	05JUN2010 00:00:40.377165	7
16	05JUN2010 00:00:40.752165	32	05JUN2010 00:00:40.752165	7
17	05JUN2010 00:00:41.314665	32	05JUN2010 00:00:41.314665	7
18	05JUN2010 00:00:41.689665	32	05JUN2010 00:00:41.689665	7
19	05JUN2010 00:00:42.064665	32	05JUN2010 00:00:42.064665	7
...	...	...	...	...



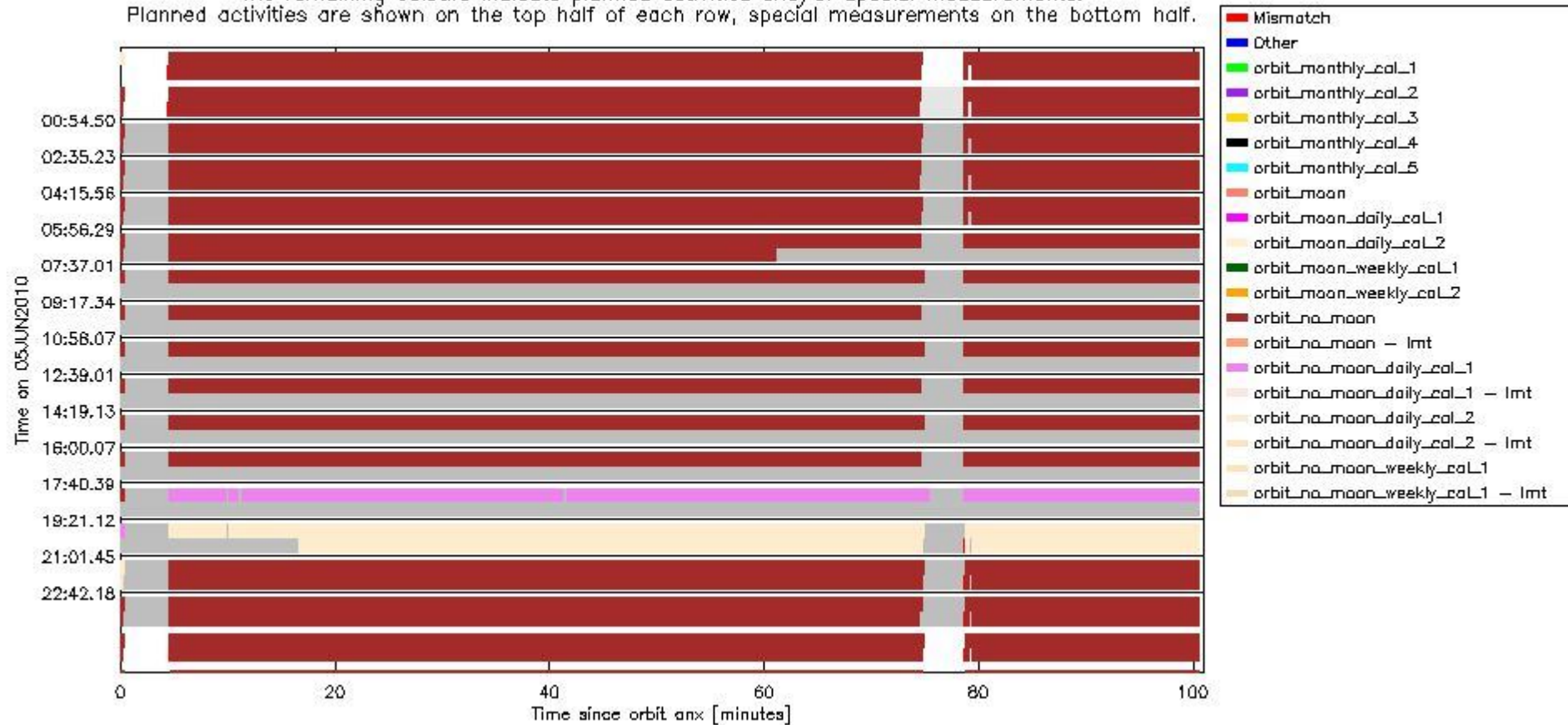
sciamachy\_daily\_report\_level0\_Any\_version\_20100605\_5.PNG

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 Q5JUN2010.  
 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\_Any\_version\_20100605\_6.PNG

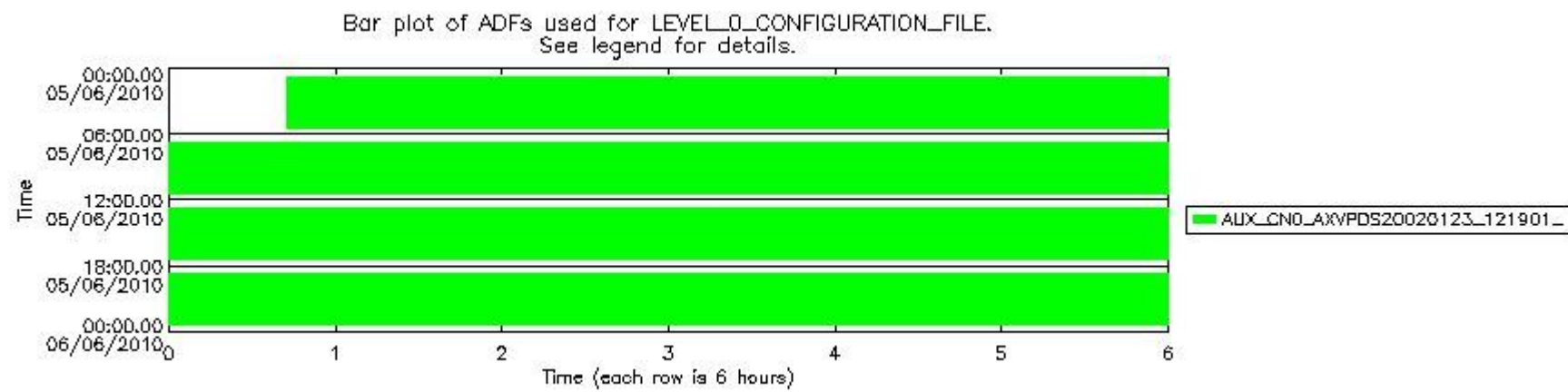
## 0.4 ADF monitoring

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

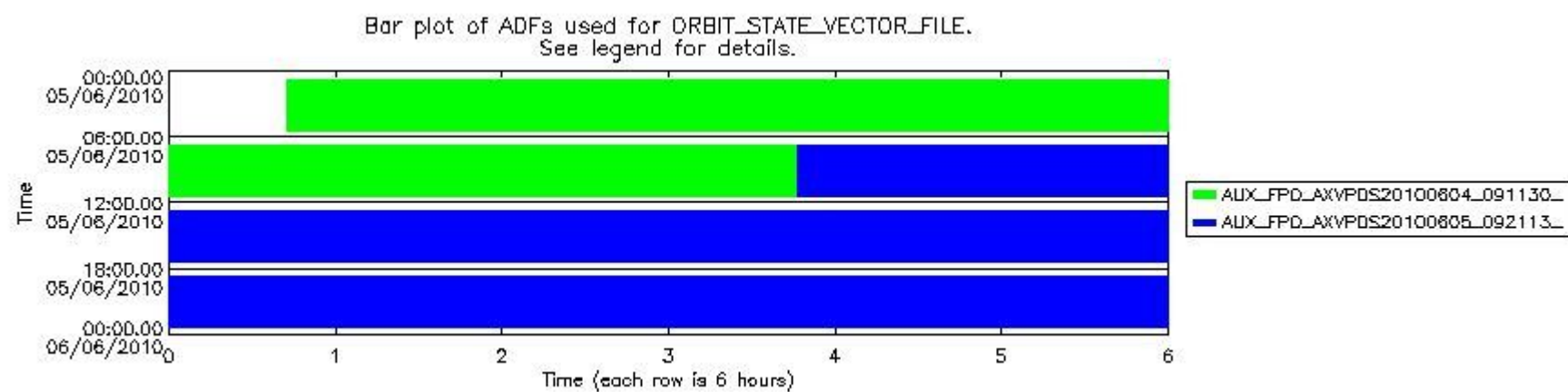
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

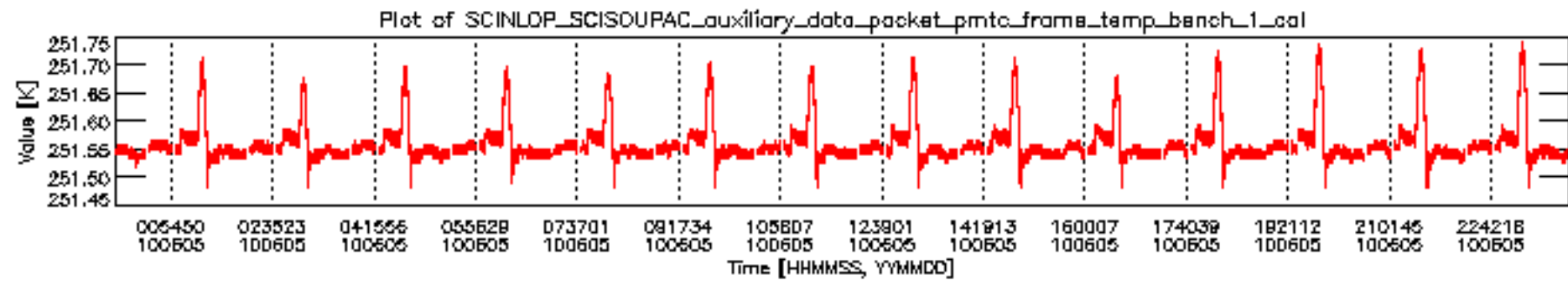
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
<b>1</b>	<b>AUX_FPO_AXVPDS20100604_091130_20100603_184353_20100613_201007</b>
<b>2</b>	<b>AUX_FPO_AXVPDS20100605_092113_20100604_195252_20100614_211905</b>



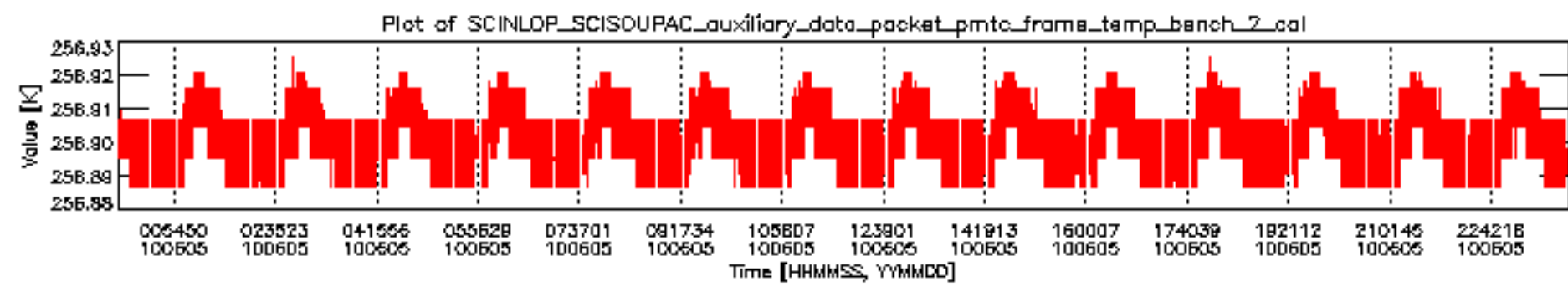
sciamachy\_daily\_report\_level0\_Any\_version\_20100605\_7.PNG

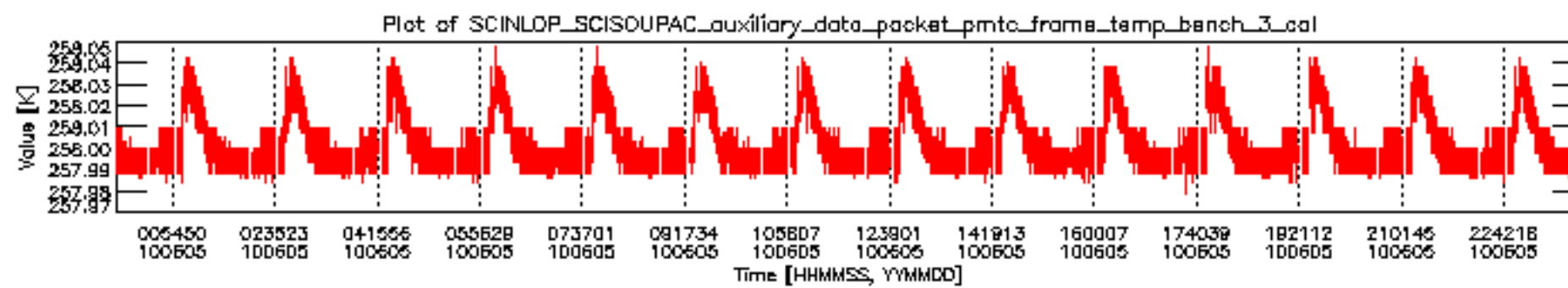


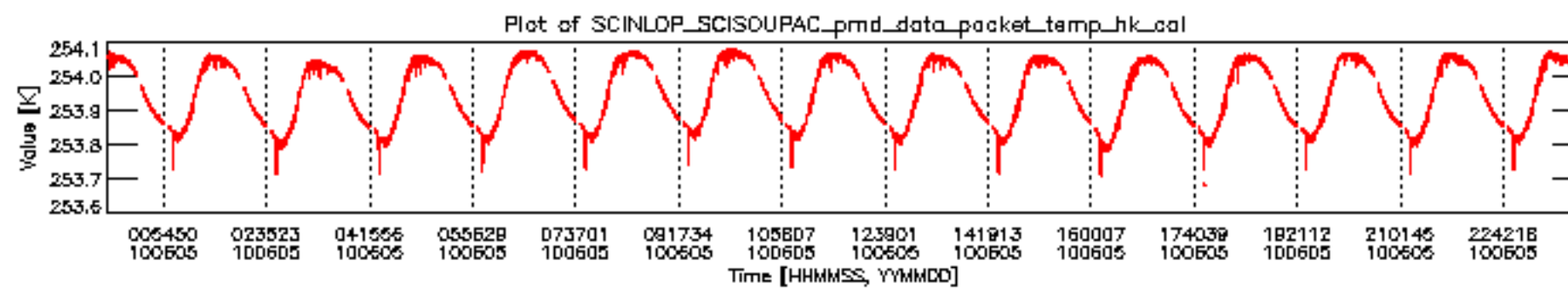
sciamachy\_daily\_report\_level0\_Any\_version\_20100605\_8.PNG

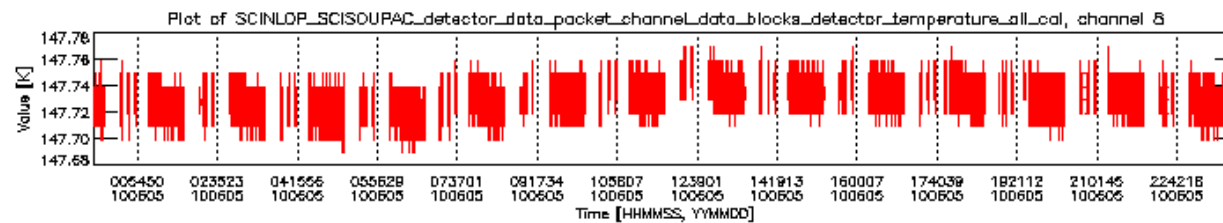
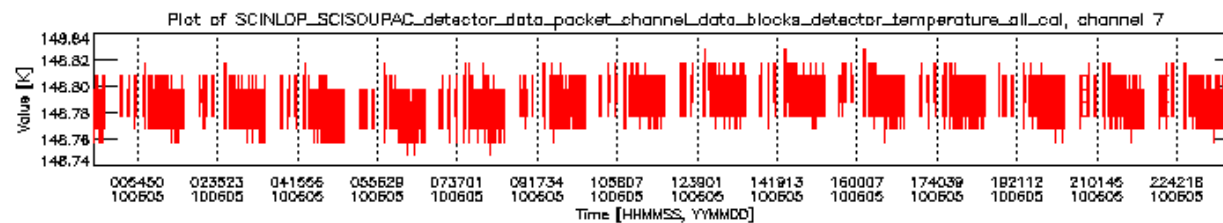
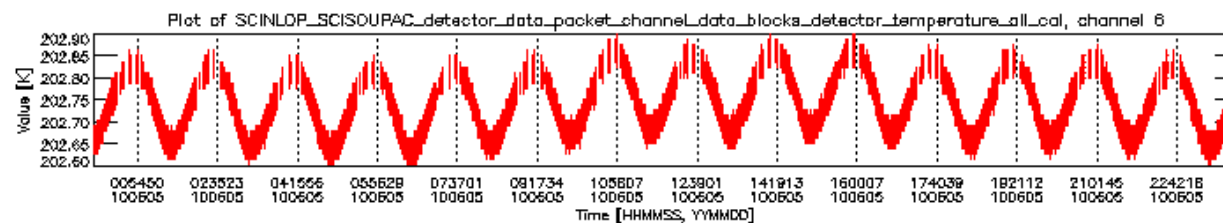
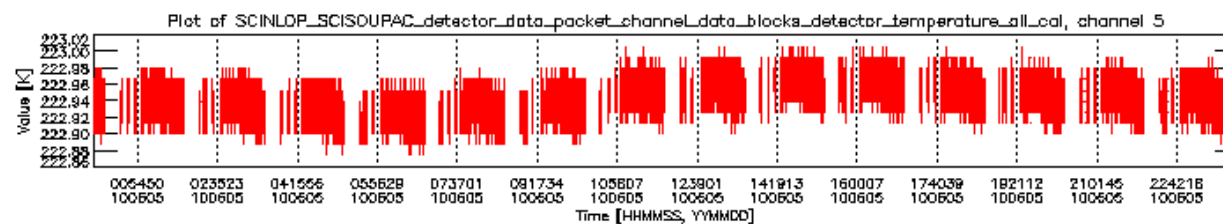
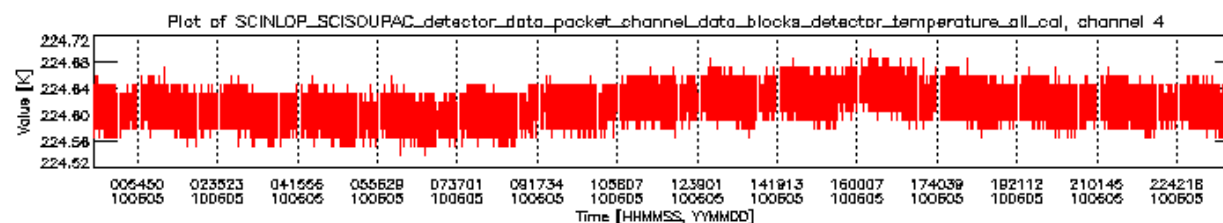
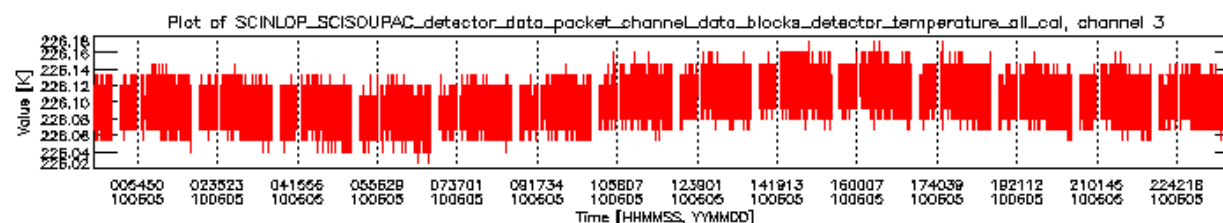
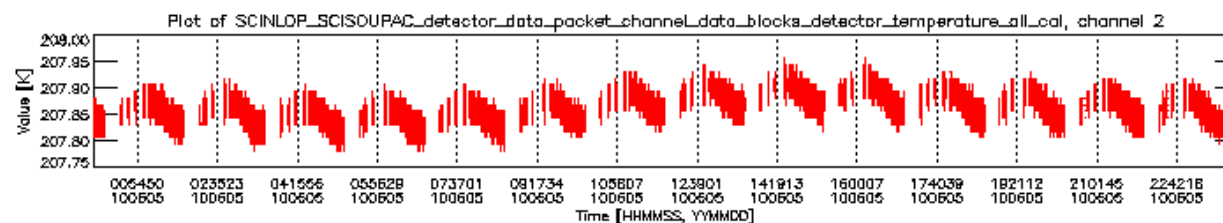
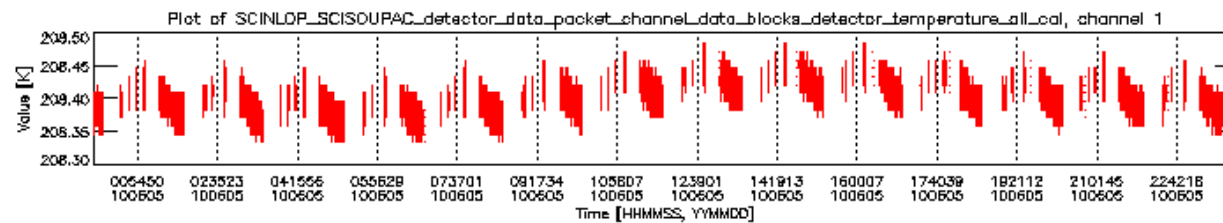




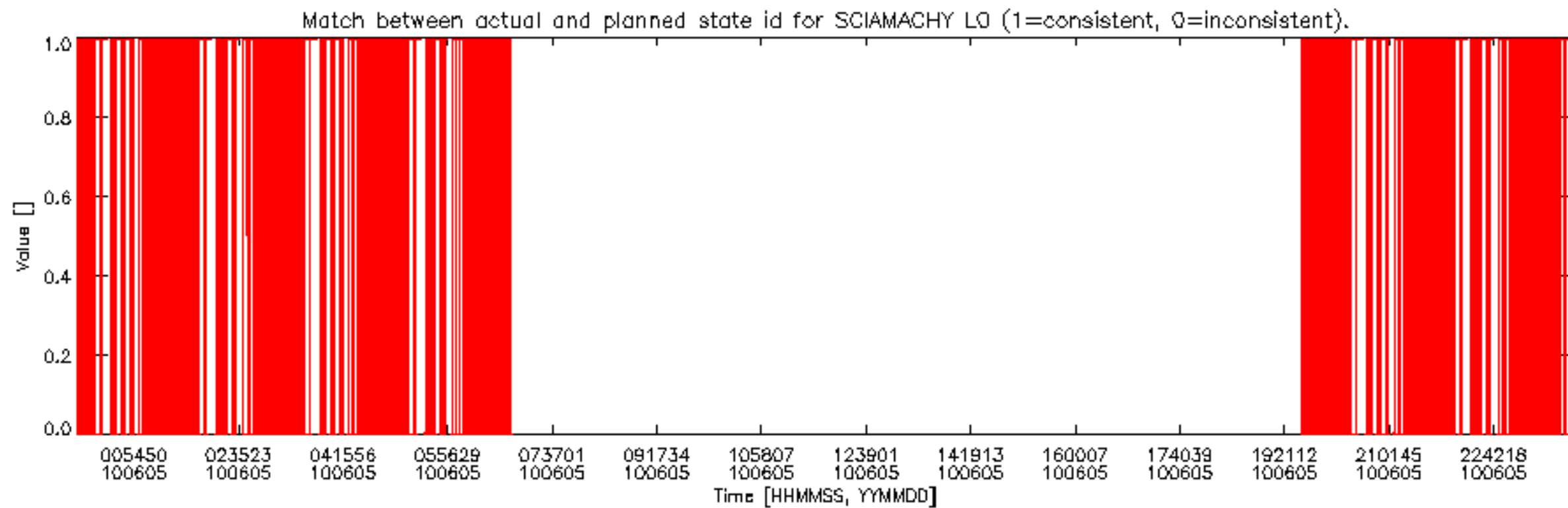
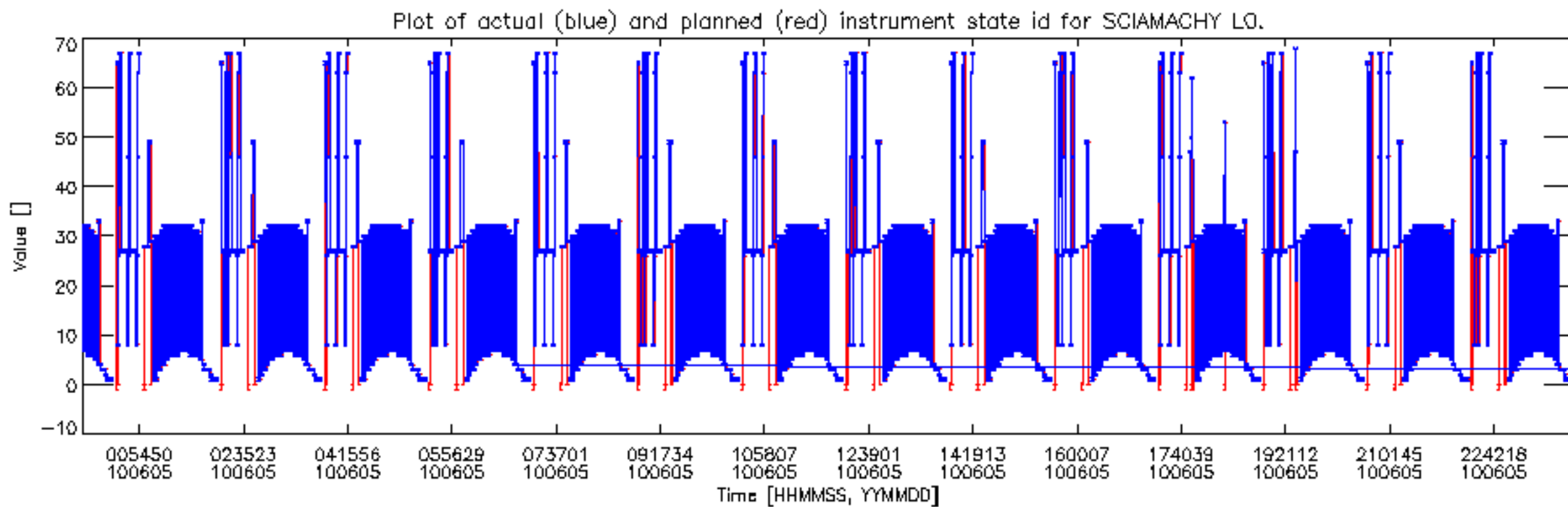












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 05JUN2010.  
 A medium gray color indicates the time span of available SCI\_NL\_1P products for this day.  
 The remaining colours indicate planned activities and/or special measurements.  
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