

## 0. SCIAMACHY Daily Report for Level 0 products

### [0.1 General Info](#)

### [0.2 Product Quality Indicators](#)

### [0.3 State monitoring](#)

### [0.4 ADF monitoring](#)

## 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	19MAR2010 01:26:31
Data source version	KSPT_L0/4303-N
Processing scope for products	15MAR2010 00:00:00 to 16MAR2010 00:00:00
Start time of first product within scope	14MAR2010 22:38:12
Stop time of last product within scope	16MAR2010 01:29:05
Total number of Level 0 products	17
Number of Level 0 products with errors	1

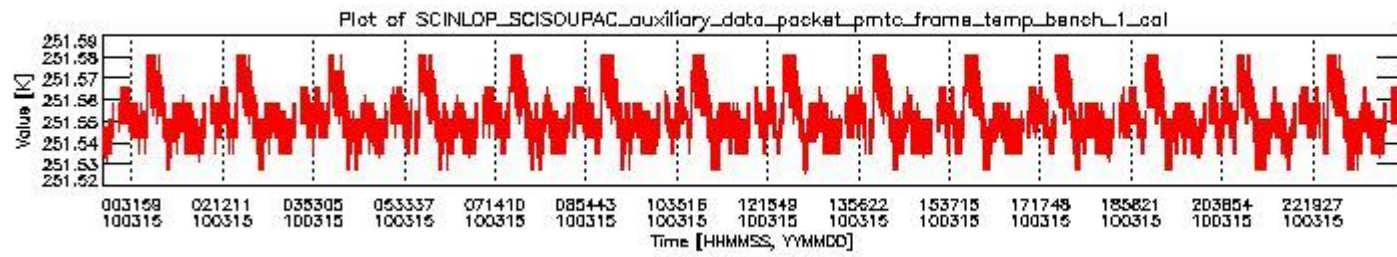
### 0.1.2 Summary per product

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

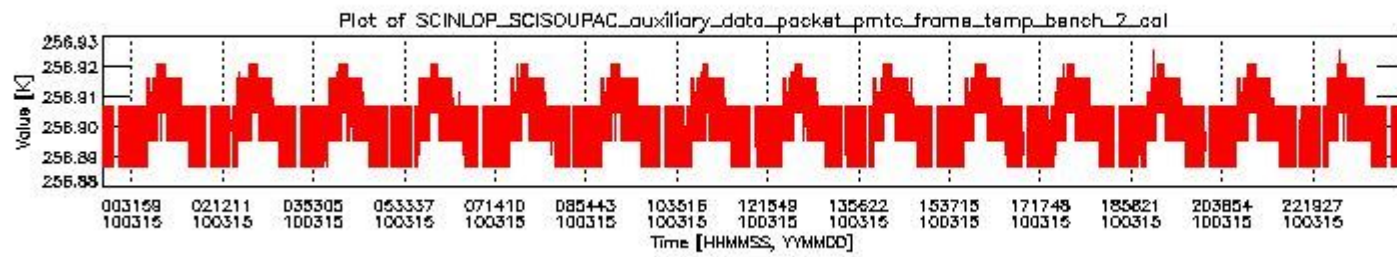
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100314_223812_000061592087_00387_42024_1078.N1	14MAR2010 22:38:12	15MAR2010 00:20:51	0	0	0	0	0
1	SCI_NL__OPNPDE20100315_002004_000055062087_00388_42025_1079.N1	15MAR2010 00:20:04	15MAR2010 01:51:50	0	0	0	0	0
2	SCI_NL__OPNPDE20100315_015838_000044312087_00389_42026_1080.N1	15MAR2010 01:58:38	15MAR2010 03:12:30	0	0	0	0	0
3	SCI_NL__OPNPDE20100315_031230_000061042087_00390_42027_1081.N1	15MAR2010 03:12:30	15MAR2010 04:54:14	0	0	0	0	0
4	SCI_NL__OPNPDE20100315_045318_000060912087_00391_42028_1082.N1	15MAR2010 04:53:18	15MAR2010 06:34:49	0	0	0	0	0
5	SCI_NL__OPNPDK20100315_063341_000041132087_00392_42029_4340.N1	15MAR2010 06:33:41	15MAR2010 07:42:14	0	0	0	0	0
6	SCI_NL__OPNPDK20100315_074118_000062162087_00393_42030_4341.N1	15MAR2010 07:41:18	15MAR2010 09:24:54	0	0	0	0	0
7	SCI_NL__OPNPDK20100315_092345_000059802087_00394_42031_4342.N1	15MAR2010 09:23:45	15MAR2010 11:03:25	0	0	0	0	0
8	SCI_NL__OPNPDK20100315_110229_000059672087_00395_42032_4343.N1	15MAR2010 11:02:29	15MAR2010 12:41:56	1	1	0	0	0
9	SCI_NL__OPNPDK20100315_124047_000061042087_00396_42033_4344.N1	15MAR2010 12:40:47	15MAR2010 14:22:31	0	0	0	0	0
10	SCI_NL__OPNPDK20100315_142135_000058982087_00397_42034_4345.N1	15MAR2010 14:21:35	15MAR2010 15:59:54	0	0	0	0	0
11	SCI_NL__OPNPDK20100315_155749_000058932087_00398_42035_4346.N1	15MAR2010 15:57:49	15MAR2010 17:36:02	0	0	0	0	0
12	SCI_NL__OPNPDK20100315_173506_000058732087_00399_42036_4347.N1	15MAR2010 17:35:06	15MAR2010 19:12:59	0	0	0	0	0
13	SCI_NL__OPNPDK20100315_191259_000060352087_00400_42037_4348.N1	15MAR2010 19:12:59	15MAR2010 20:53:34	0	0	0	0	0
14	SCI_NL__OPNPDE20100315_205334_000039222087_00401_42038_1083.N1	15MAR2010 20:53:34	15MAR2010 21:58:56	0	0	0	0	0
15	SCI_NL__OPNPDE20100315_220542_000061562087_00401_42038_1084.N1	15MAR2010 22:05:42	15MAR2010 23:48:19	0	0	0	0	0
16	SCI_NL__OPNPDE20100315_234701_000061232087_00402_42039_1085.N1	15MAR2010 23:47:01	16MAR2010 01:29:05	0	0	0	0	0

## 0.2 Product Quality Indicators

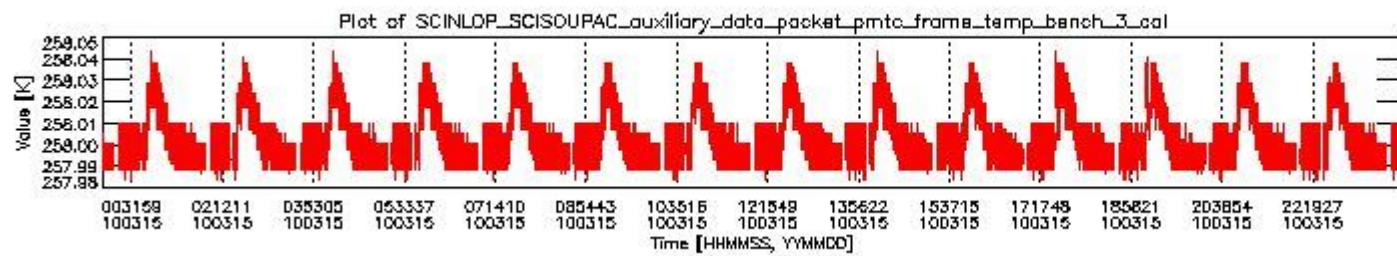
This section shows information about product quality, currently temperatures.



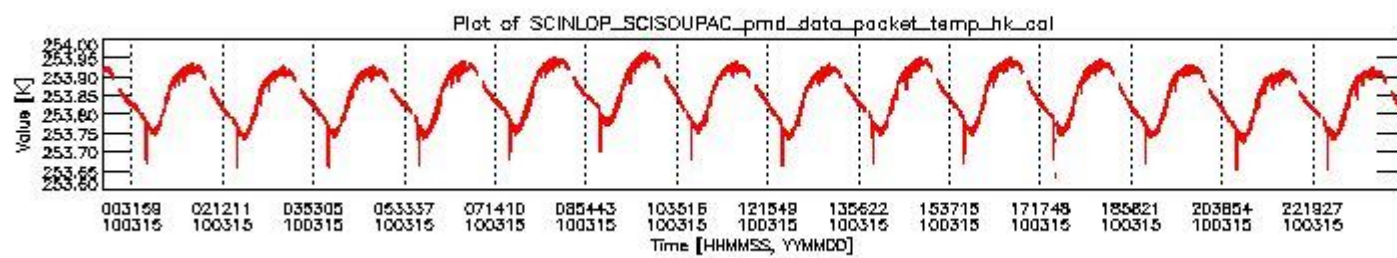
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100315\_0.PNG



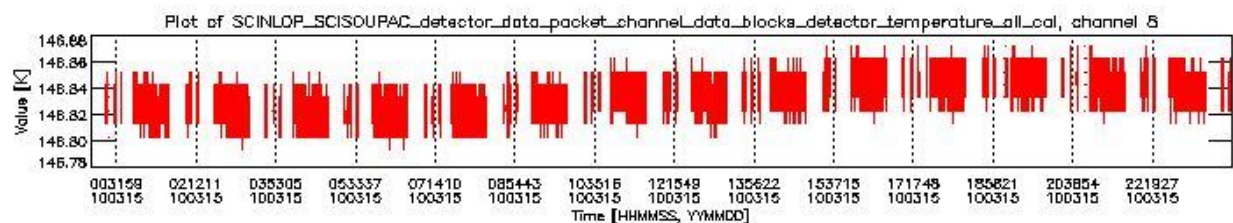
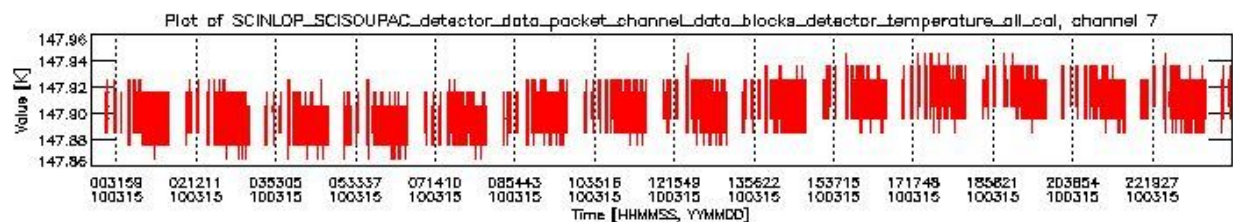
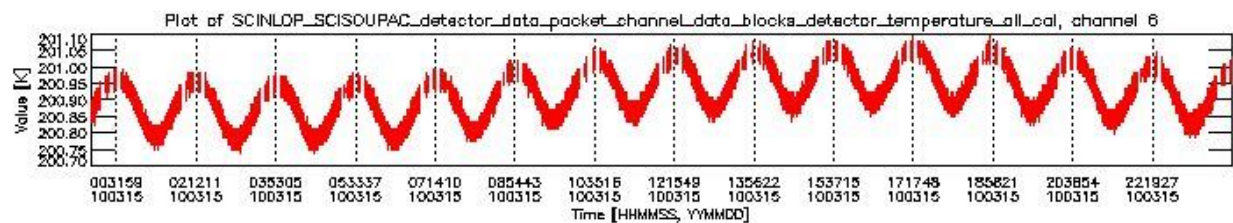
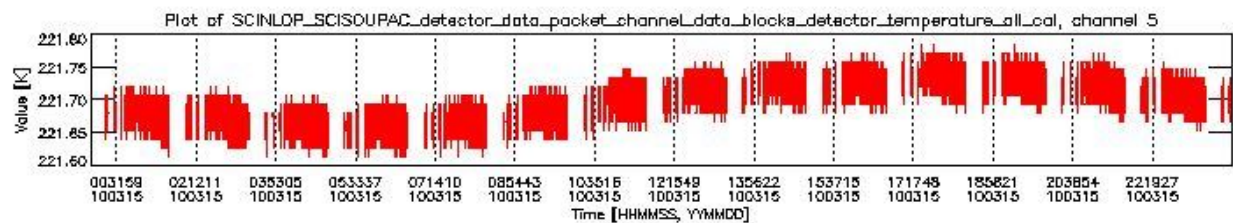
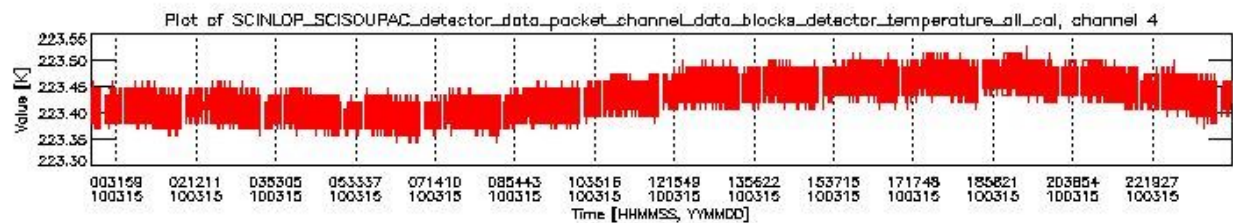
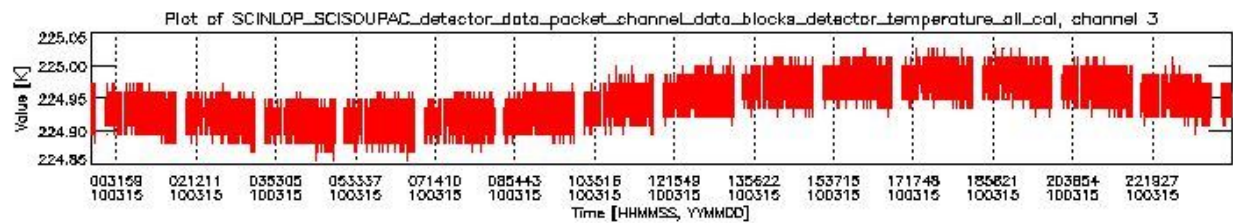
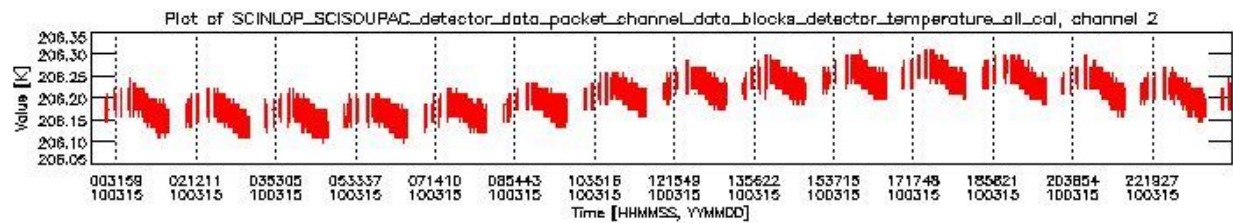
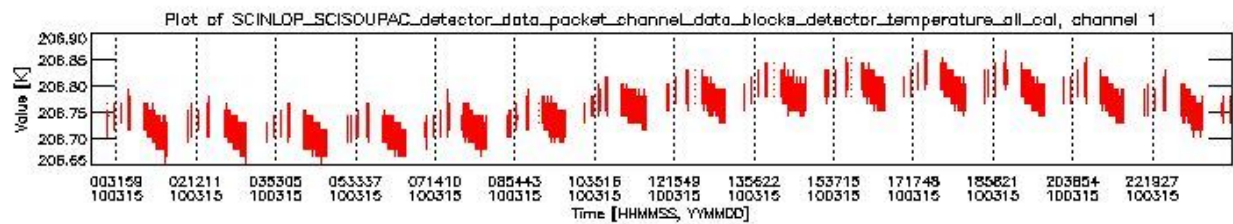
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sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100315\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100315\_3.PNG

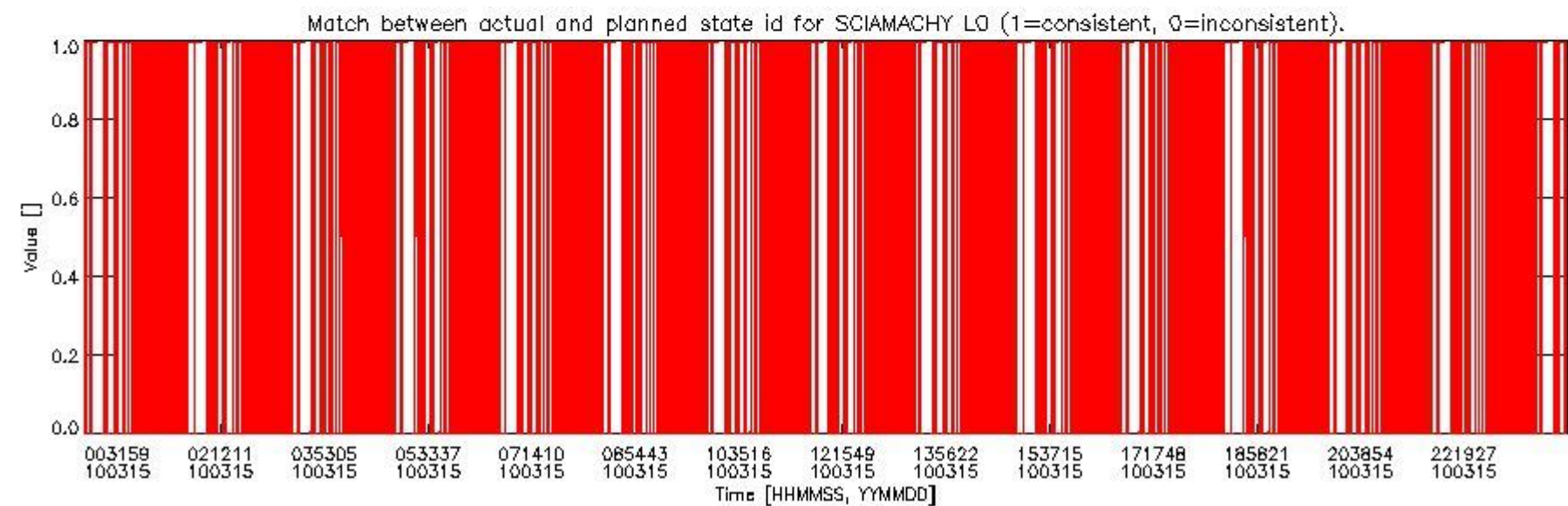
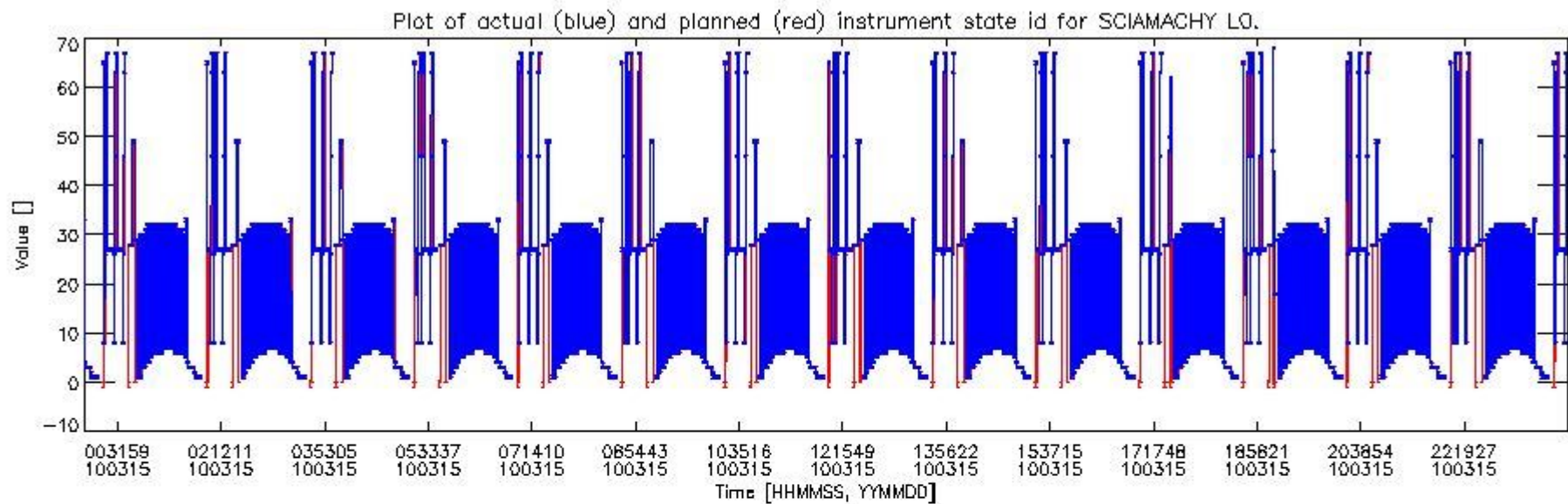


### 0.3 State monitoring

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: **73758**

#	Actual time	Actual value	Planned time	Planned value
0	15MAR2010 00:00:45.524493	3	15MAR2010 00:00:45.524493	4
1	15MAR2010 00:00:45.774493	3	15MAR2010 00:00:45.774493	4
2	15MAR2010 00:00:45.899493	3	15MAR2010 00:00:45.899493	4
3	15MAR2010 00:00:46.024493	3	15MAR2010 00:00:46.024493	4
4	15MAR2010 00:00:46.149493	3	15MAR2010 00:00:46.149493	4
5	15MAR2010 00:00:46.274493	3	15MAR2010 00:00:46.274493	4
6	15MAR2010 00:00:46.399493	3	15MAR2010 00:00:46.399493	4
7	15MAR2010 00:00:46.524493	3	15MAR2010 00:00:46.524493	4
8	15MAR2010 00:00:46.649493	3	15MAR2010 00:00:46.649493	4
9	15MAR2010 00:00:46.774493	3	15MAR2010 00:00:46.774493	4
10	15MAR2010 00:00:46.899493	3	15MAR2010 00:00:46.899493	4
11	15MAR2010 00:00:47.024493	3	15MAR2010 00:00:47.024493	4
12	15MAR2010 00:00:47.149493	3	15MAR2010 00:00:47.149493	4
13	15MAR2010 00:00:47.274493	3	15MAR2010 00:00:47.274493	4
14	15MAR2010 00:00:47.399493	3	15MAR2010 00:00:47.399493	4
15	15MAR2010 00:00:47.524493	3	15MAR2010 00:00:47.524493	4
16	15MAR2010 00:00:47.649493	3	15MAR2010 00:00:47.649493	4
17	15MAR2010 00:00:47.774493	3	15MAR2010 00:00:47.774493	4
18	15MAR2010 00:00:47.899493	3	15MAR2010 00:00:47.899493	4
19	15MAR2010 00:00:48.024493	3	15MAR2010 00:00:48.024493	4
...	...	...	...	...

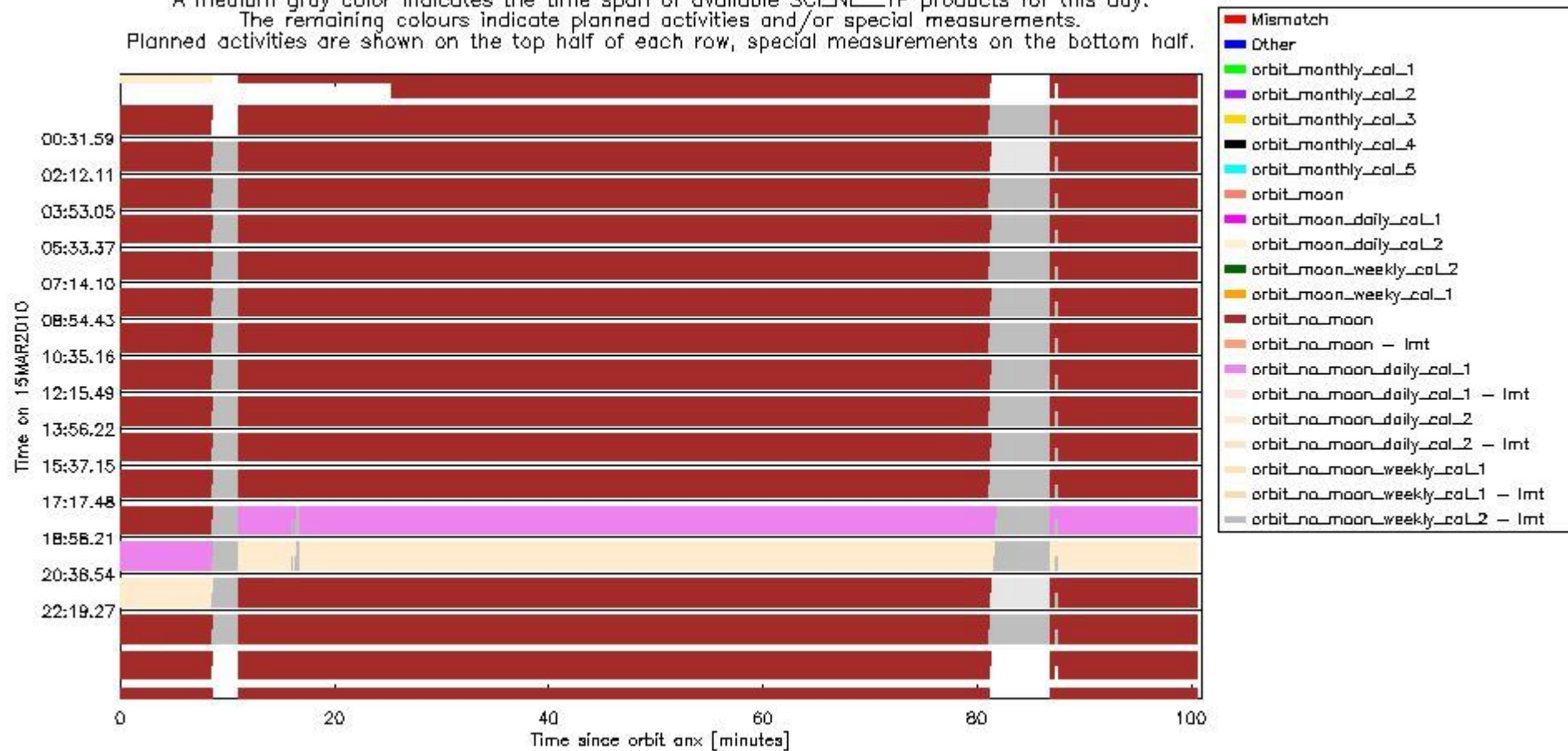


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100315\_5.PNG

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 15MAR2010.  
 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\_20100315\_6.PNG

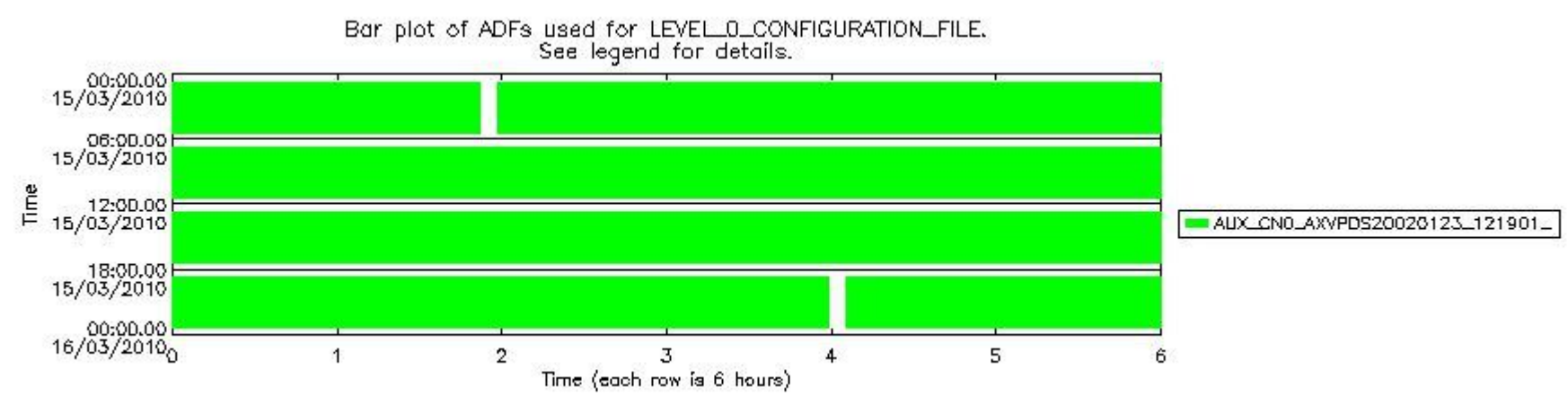
## 0.4 ADF monitoring

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

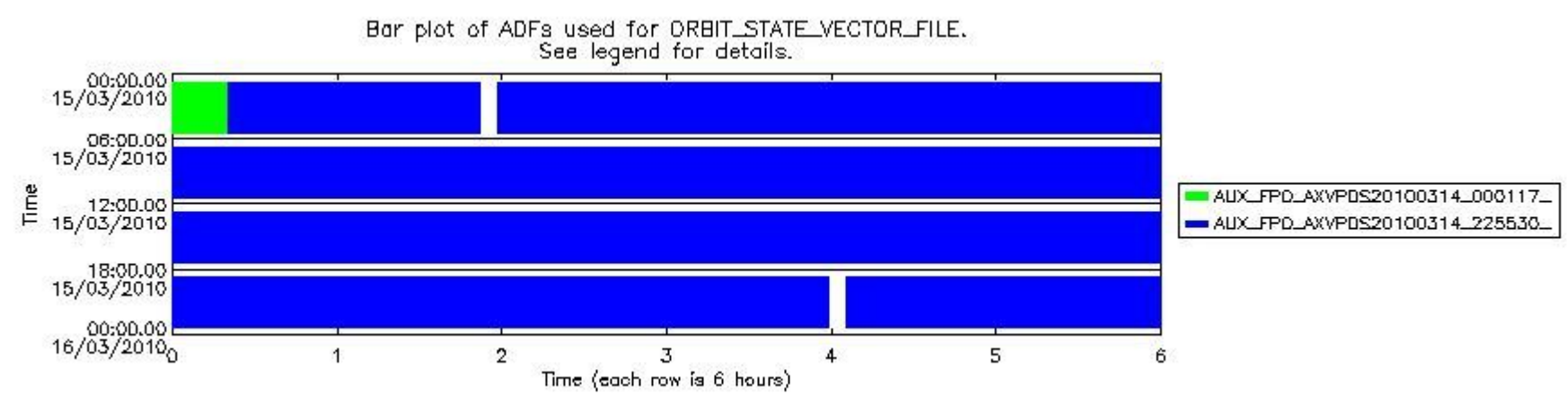
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

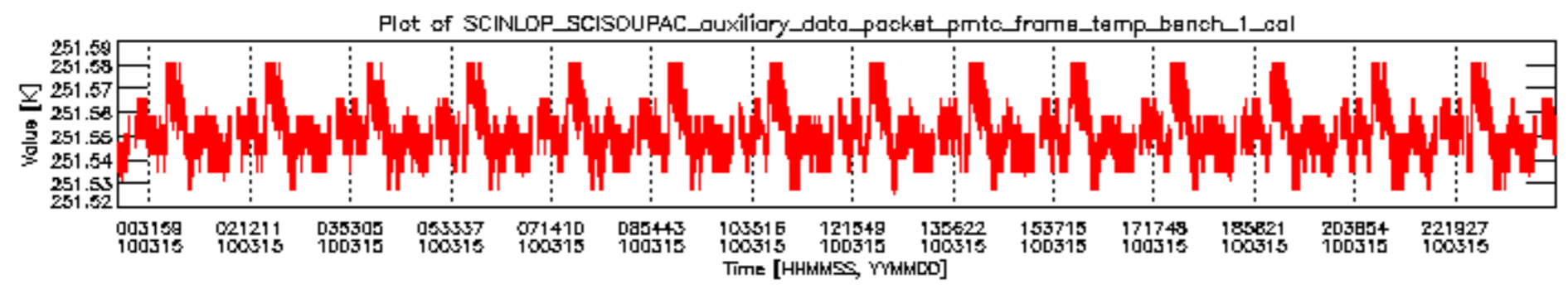
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20100314_000117_20100313_182055_20100323_212745</b>
2	<b>AUX_FPO_AXVPDS20100314_225530_20100314_192954_20100324_205608</b>



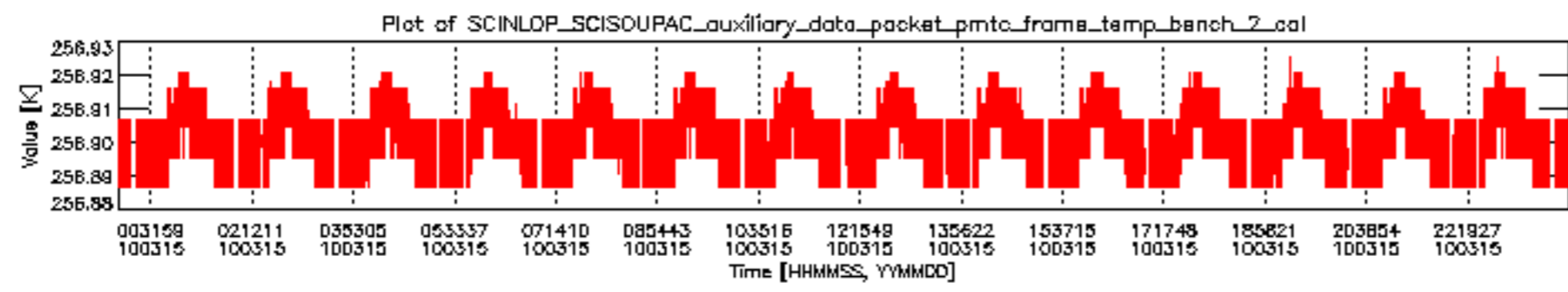
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100315\_7.PNG

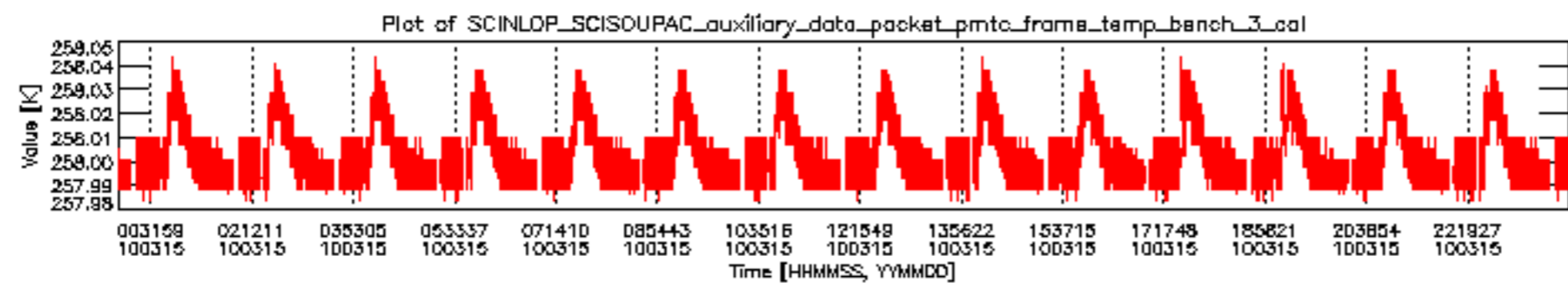


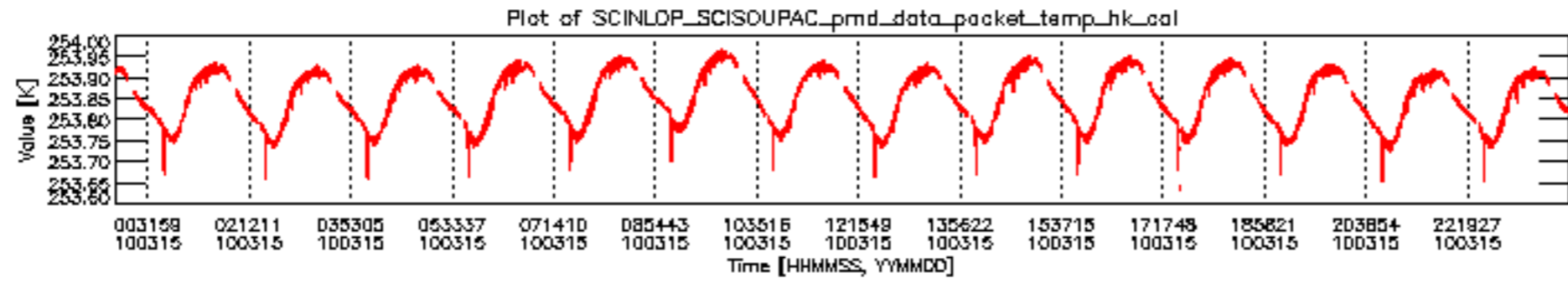
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20100315\_8.PNG

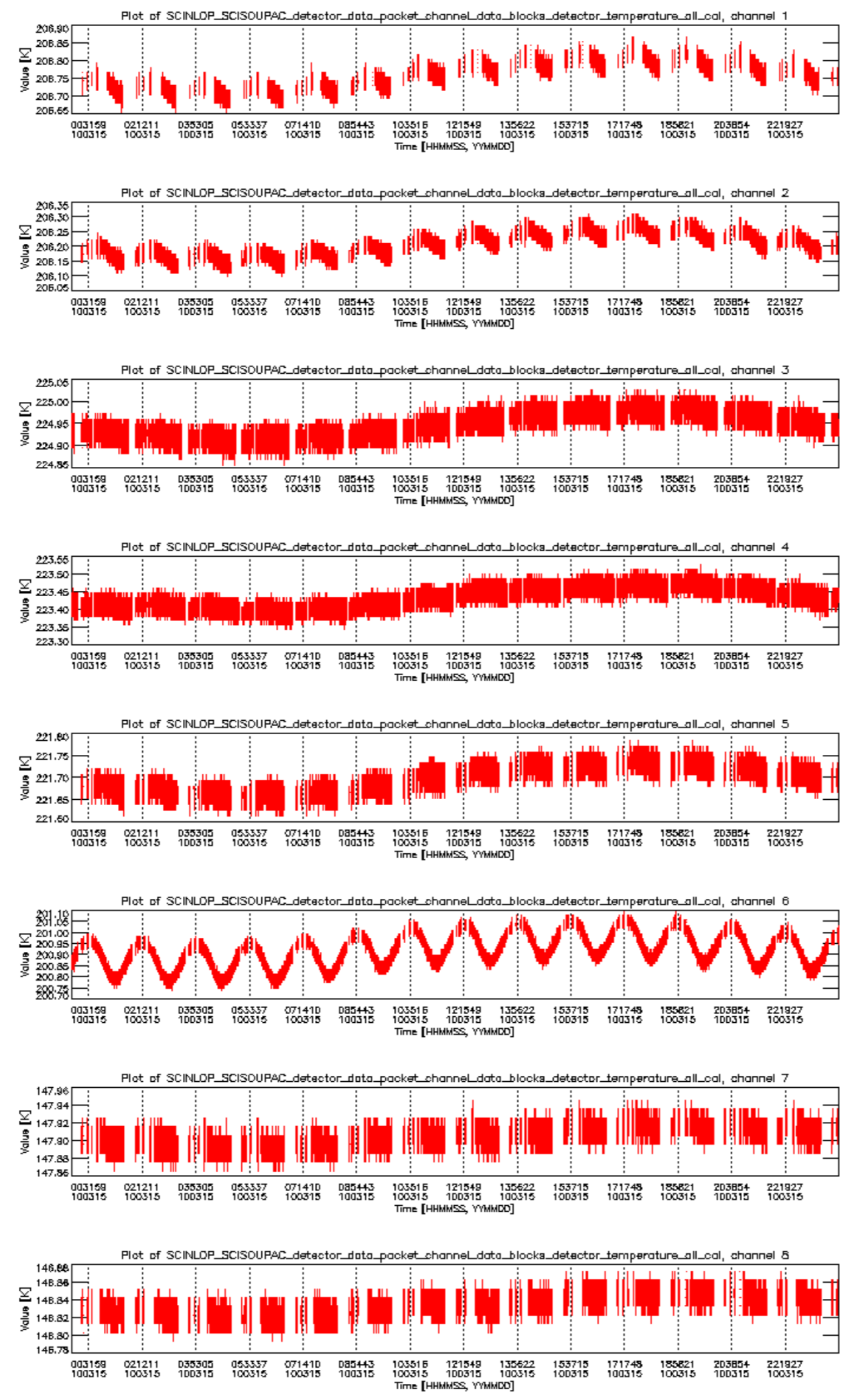


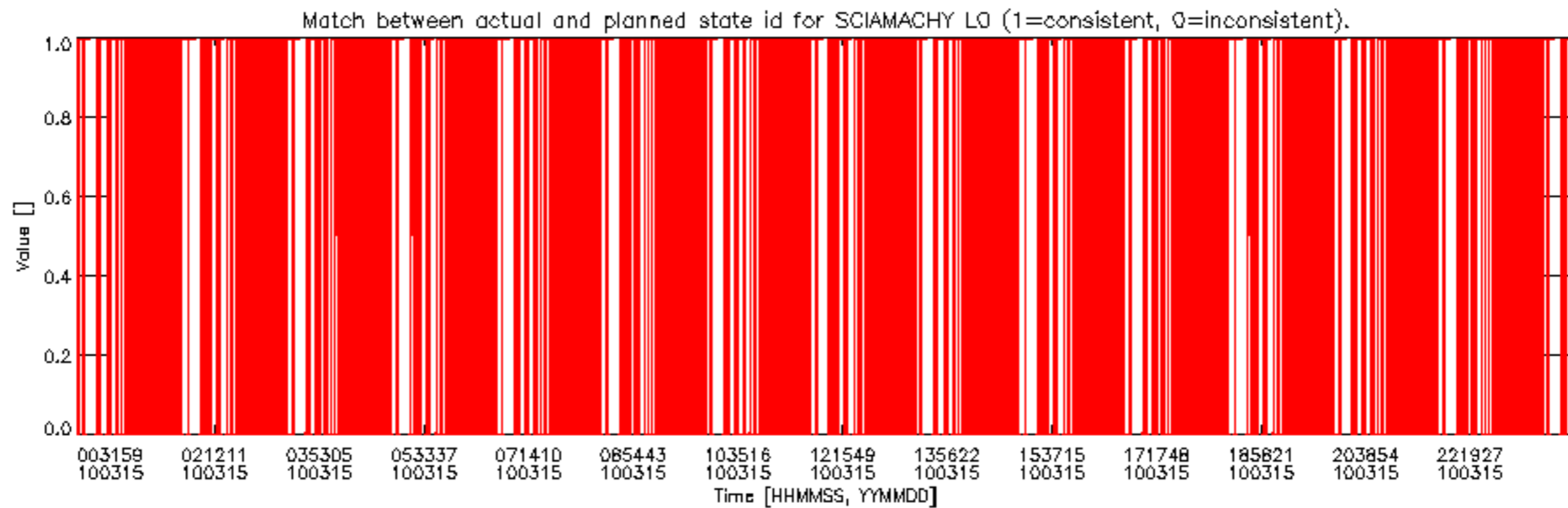
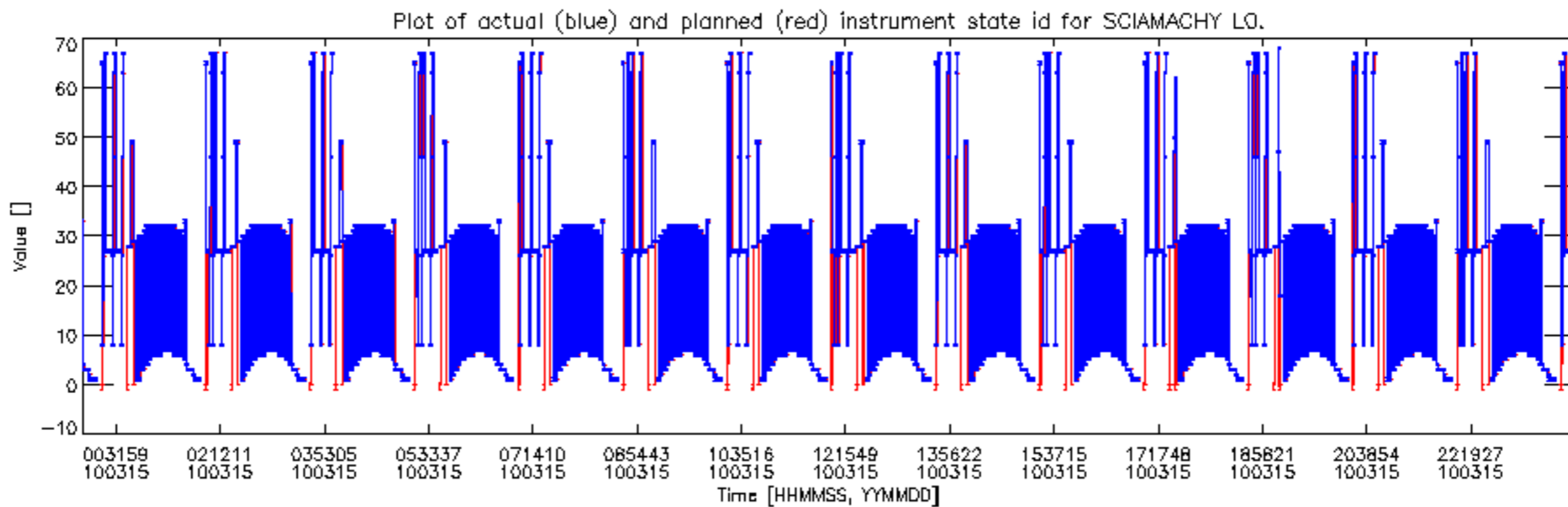












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 15MAR2010.  
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