

## 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	06APR2009 18:13:22
Data source version	KSPT_L0/4303-N
Processing scope for products	30MAR2009 00:00:00 to 31MAR2009 00:00:00
Start time of first product within scope	29MAR2009 22:39:04
Stop time of last product within scope	31MAR2009 01:29:03
Total number of level 0 products	17
Number of level 0 products with errors	2

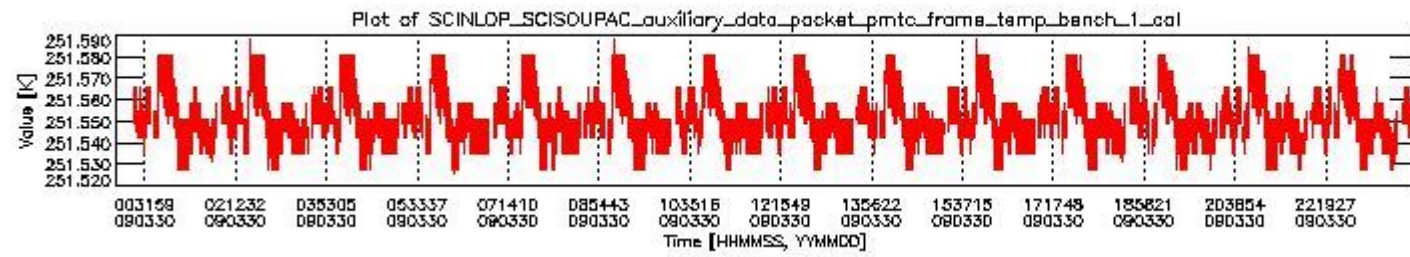
### 0.1.2 Summary per product

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

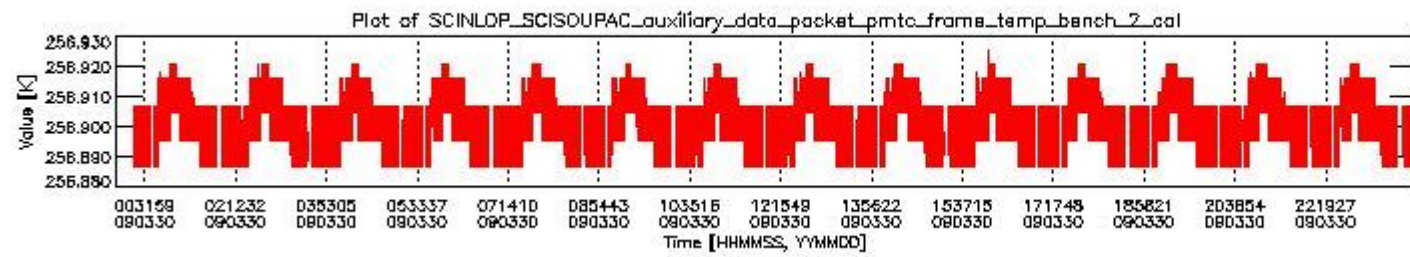
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090329_223904_000060672077_00387_37014_8848.N1	29MAR2009 22:39:04	30MAR2009 00:20:11	0	0	0	0	0
1	SCI_NL__OPNPDE20090330_001848_000059552077_00388_37015_8849.N1	30MAR2009 00:18:48	30MAR2009 01:58:03	0	0	0	0	0
2	SCI_NL__OPNPDE20090330_015719_000047352077_00389_37016_8850.N1	30MAR2009 01:57:19	30MAR2009 03:16:13	0	0	0	0	0
3	SCI_NL__OPNPDE20090330_031613_000058552077_00390_37017_8851.N1	30MAR2009 03:16:13	30MAR2009 04:53:49	0	0	0	0	0
4	SCI_NL__OPNPDE20090330_045240_000060912077_00391_37018_8852.N1	30MAR2009 04:52:40	30MAR2009 06:34:12	0	0	0	0	0
5	SCI_NL__OPNPDK20090330_063316_000041692077_00392_37019_1129.N1	30MAR2009 06:33:16	30MAR2009 07:42:45	0	0	0	0	0
6	SCI_NL__OPNPDK20090330_074149_000061472077_00393_37020_1130.N1	30MAR2009 07:41:49	30MAR2009 09:24:16	1	1	0	0	0
7	SCI_NL__OPNPDK20090330_092320_000060352077_00394_37021_1131.N1	30MAR2009 09:23:20	30MAR2009 11:03:56	0	0	0	0	0
8	SCI_NL__OPNPDK20090330_110300_000059672077_00395_37022_1132.N1	30MAR2009 11:03:00	30MAR2009 12:42:27	1	1	1	0	0
9	SCI_NL__OPNPDK20090330_124118_000060482077_00396_37023_1133.N1	30MAR2009 12:41:18	30MAR2009 14:22:06	0	0	0	0	0
10	SCI_NL__OPNPDK20090330_142002_000057742077_00397_37024_1134.N1	30MAR2009 14:20:02	30MAR2009 15:56:16	0	0	0	0	0
11	SCI_NL__OPNPDK20090330_155424_000060582077_00398_37025_1135.N1	30MAR2009 15:54:24	30MAR2009 17:35:22	0	0	0	0	0
12	SCI_NL__OPNPDK20090330_173330_000060912077_00399_37026_1136.N1	30MAR2009 17:33:30	30MAR2009 19:15:01	0	0	0	0	0
13	SCI_NL__OPNPDK20090330_191405_000061252077_00400_37027_1137.N1	30MAR2009 19:14:05	30MAR2009 20:56:11	0	0	0	0	0
14	SCI_NL__OPNPDE20090330_205515_000042802077_00401_37028_8853.N1	30MAR2009 20:55:15	30MAR2009 22:06:35	0	0	0	0	0
15	SCI_NL__OPNPDE20090330_220507_000061992077_00401_37028_8854.N1	30MAR2009 22:05:07	30MAR2009 23:48:26	0	0	0	0	0
16	SCI_NL__OPNPDE20090330_234703_000061202077_00402_37029_8855.N1	30MAR2009 23:47:03	31MAR2009 01:29:03	0	0	0	0	0

## 0.2 Product Quality Indicators

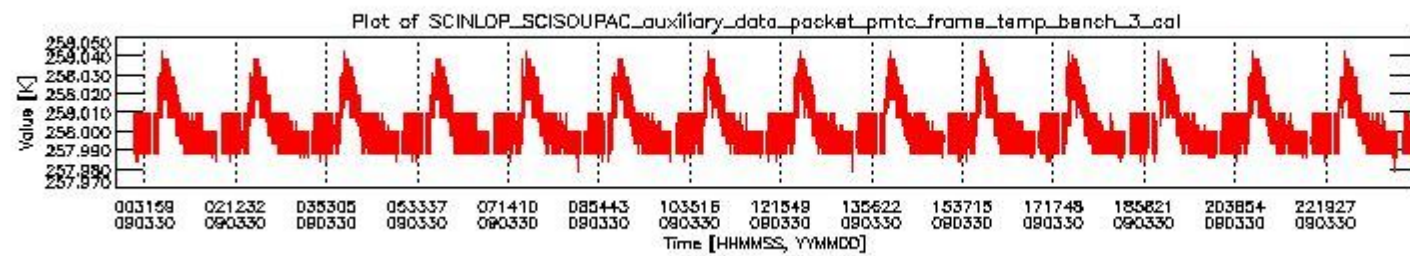
This section shows information about product quality, currently temperatures.



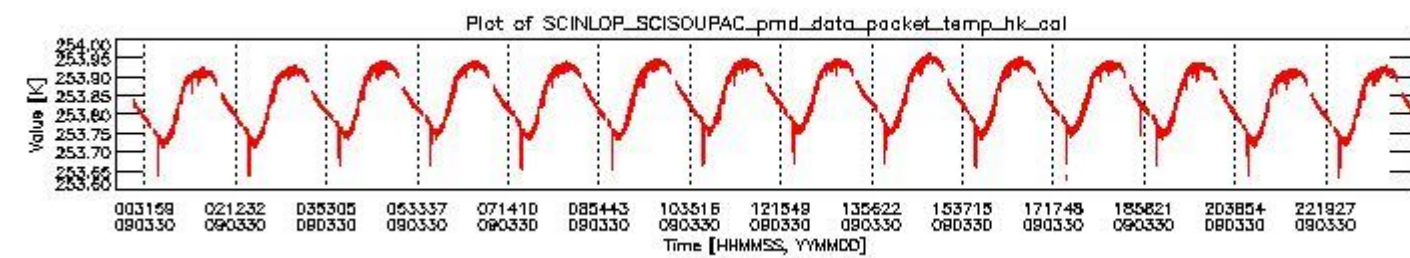
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090330\_0.PNG



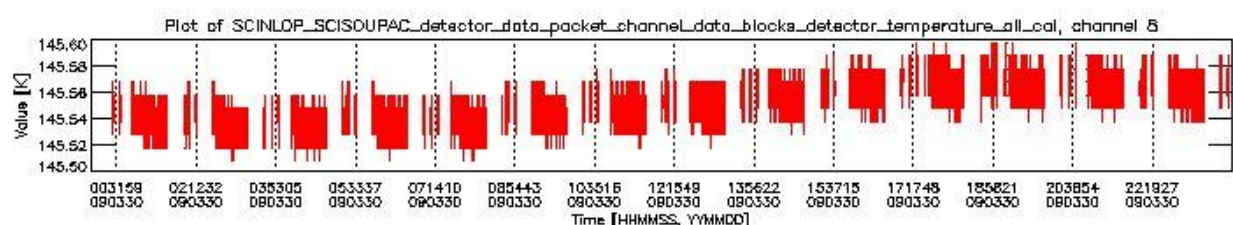
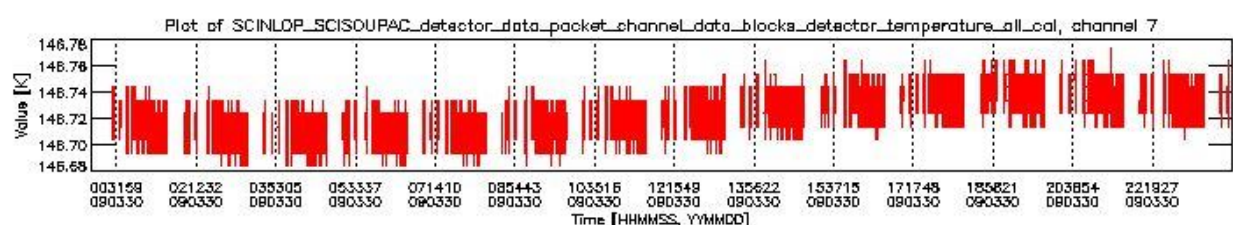
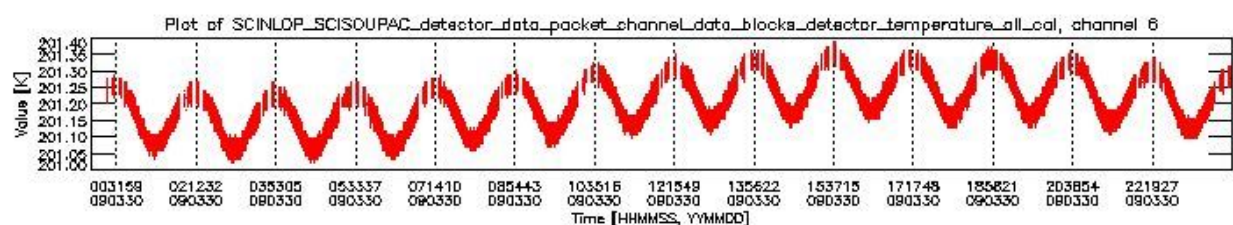
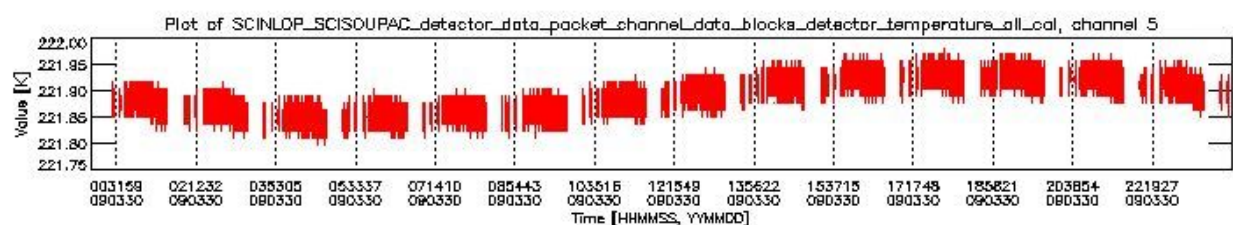
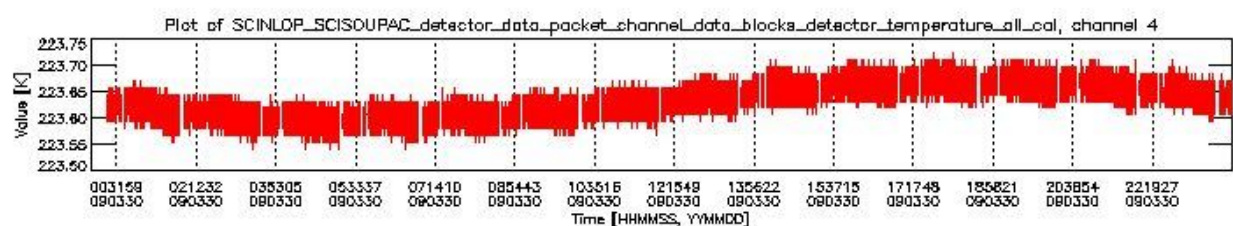
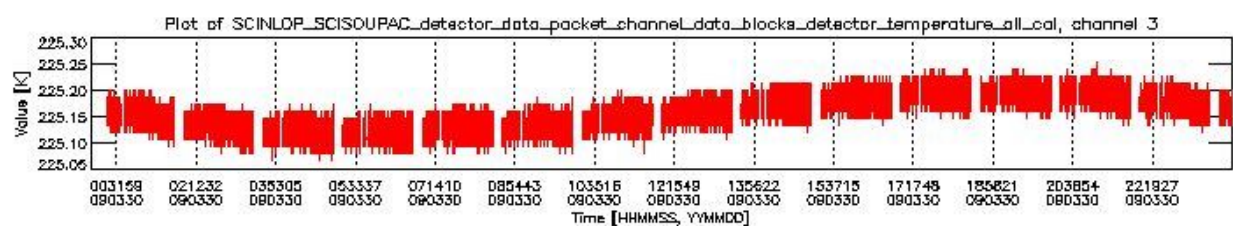
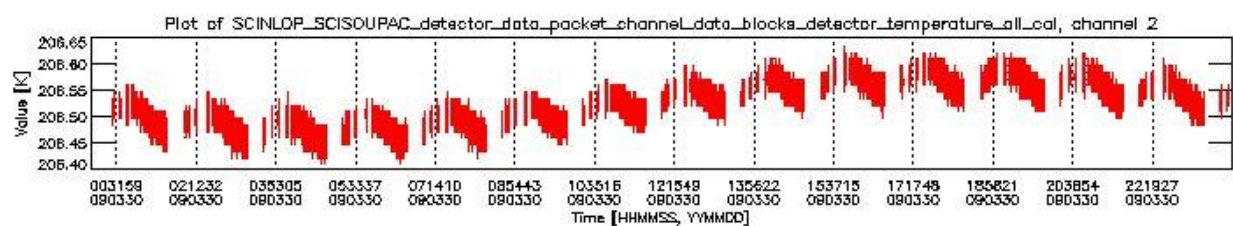
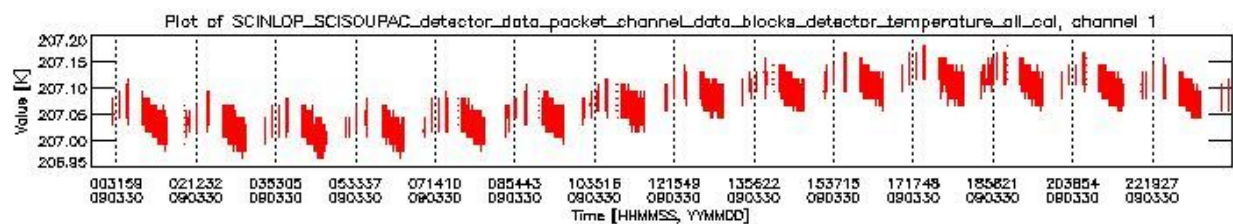
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090330\_1.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090330\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090330\_3.PNG

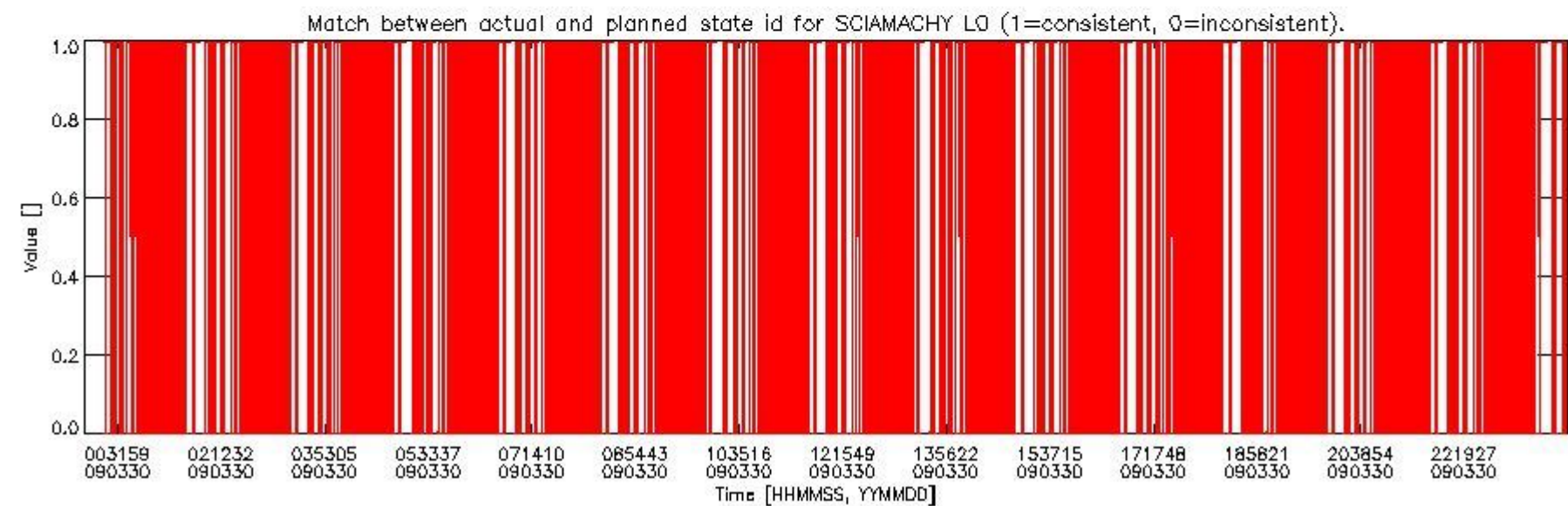
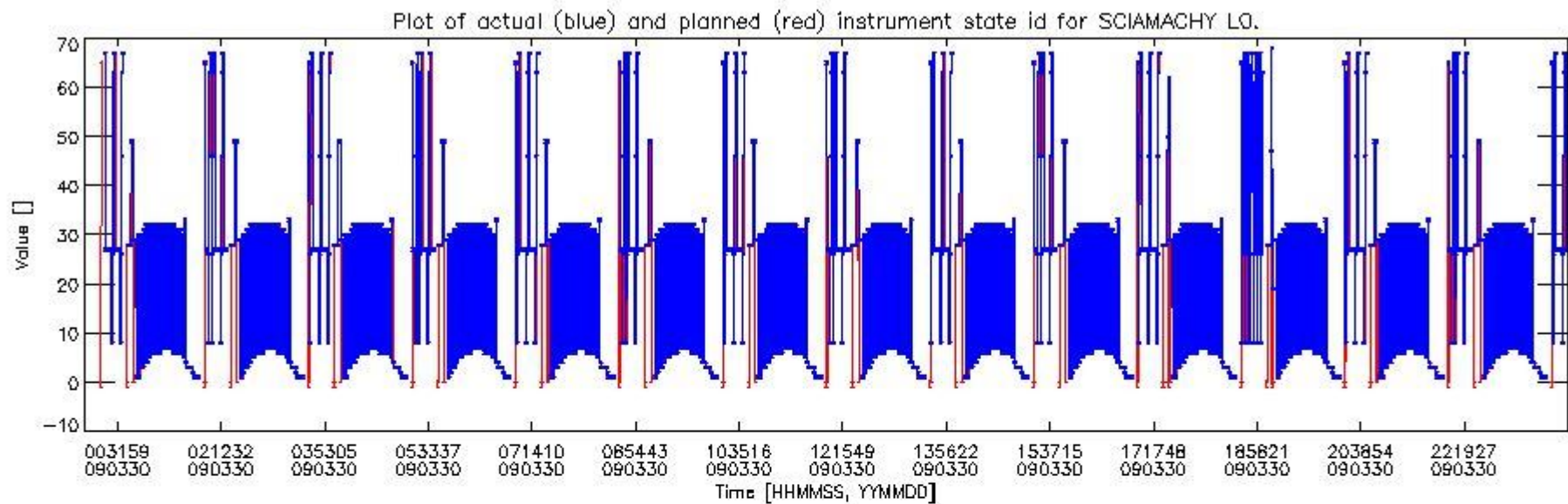


### 0.3 State monitoring

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: **55690**

#	Actual time	Actual value	Planned time	Planned value
0	30MAR2009 00:20:11.605015	27	30MAR2009 00:20:11.605015	67
1	30MAR2009 00:20:12.605010	27	30MAR2009 00:20:12.605010	67
2	30MAR2009 00:20:13.542522	27	30MAR2009 00:20:13.542522	67
3	30MAR2009 00:20:14.292508	27	30MAR2009 00:20:14.292508	67
4	30MAR2009 00:20:15.230021	27	30MAR2009 00:20:15.230021	67
5	30MAR2009 00:20:15.980007	27	30MAR2009 00:20:15.980007	67
6	30MAR2009 00:20:16.605029	27	30MAR2009 00:20:16.605029	67
7	30MAR2009 00:20:16.917519	27	30MAR2009 00:20:16.917519	67
8	30MAR2009 00:20:17.667505	27	30MAR2009 00:20:17.667505	67
9	30MAR2009 00:20:18.605018	27	30MAR2009 00:20:18.605018	67
10	30MAR2009 00:20:19.355004	27	30MAR2009 00:20:19.355004	67
11	30MAR2009 00:20:20.292516	27	30MAR2009 00:20:20.292516	67
12	30MAR2009 00:20:21.042502	27	30MAR2009 00:20:21.042502	67
13	30MAR2009 00:20:21.605001	27	30MAR2009 00:20:21.605001	67
14	30MAR2009 00:20:21.980014	27	30MAR2009 00:20:21.980014	67
15	30MAR2009 00:20:22.730000	27	30MAR2009 00:20:22.730000	67
16	30MAR2009 00:20:23.667513	27	30MAR2009 00:20:23.667513	67
17	30MAR2009 00:26:04.069891	8	30MAR2009 00:26:04.069891	27
18	30MAR2009 00:26:05.194890	8	30MAR2009 00:26:05.194890	27
19	30MAR2009 00:26:06.194925	8	30MAR2009 00:26:06.194925	27
	...	...	...	...

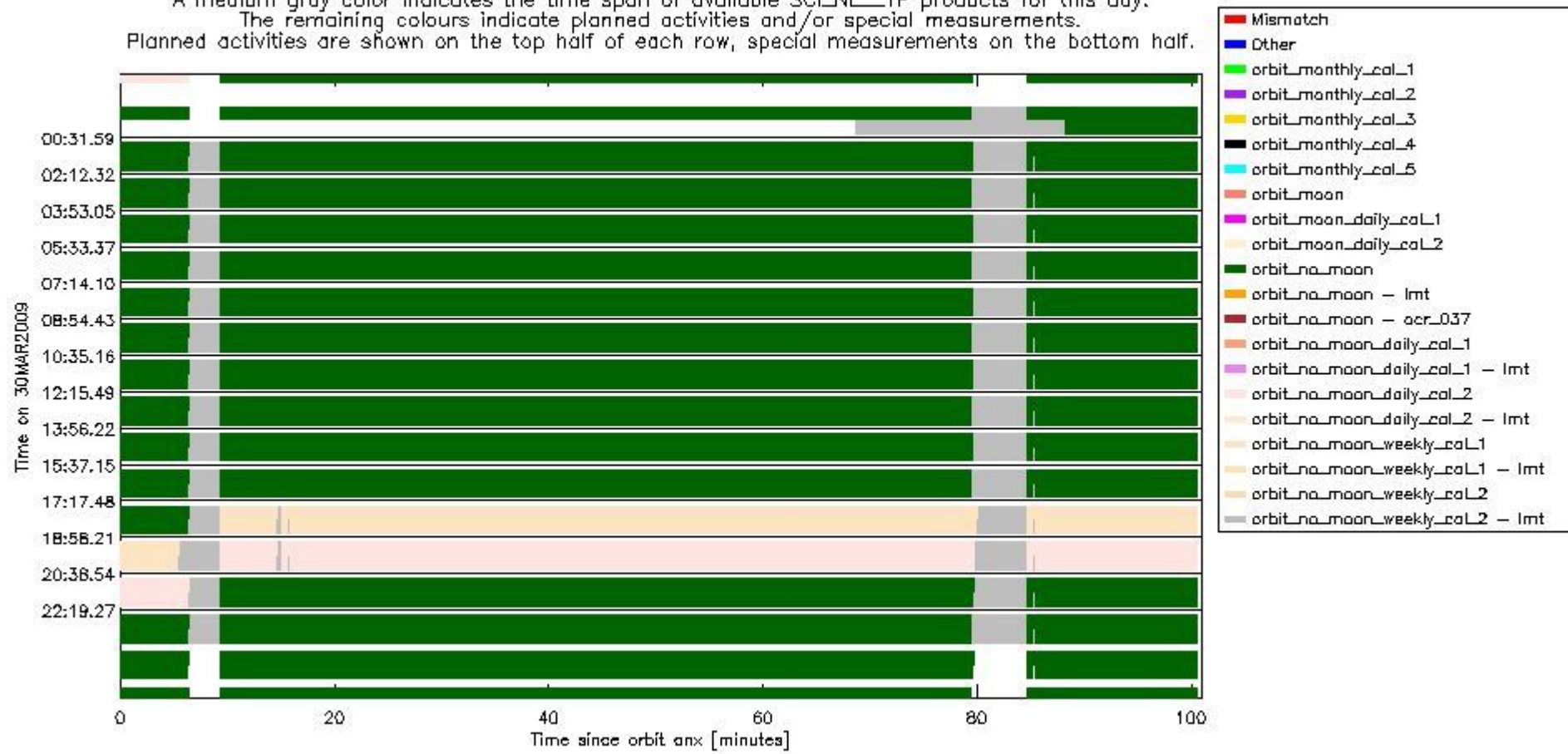


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090330\_5.PNG

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 30MAR2009.  
 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\_20090330\_6.PNG

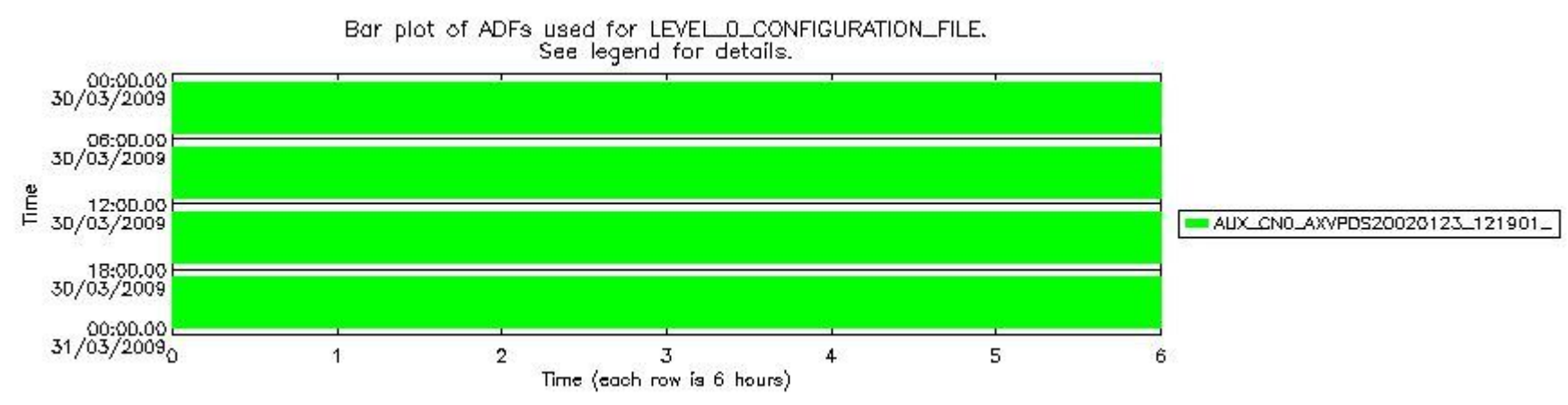
## 0.4 ADF monitoring

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

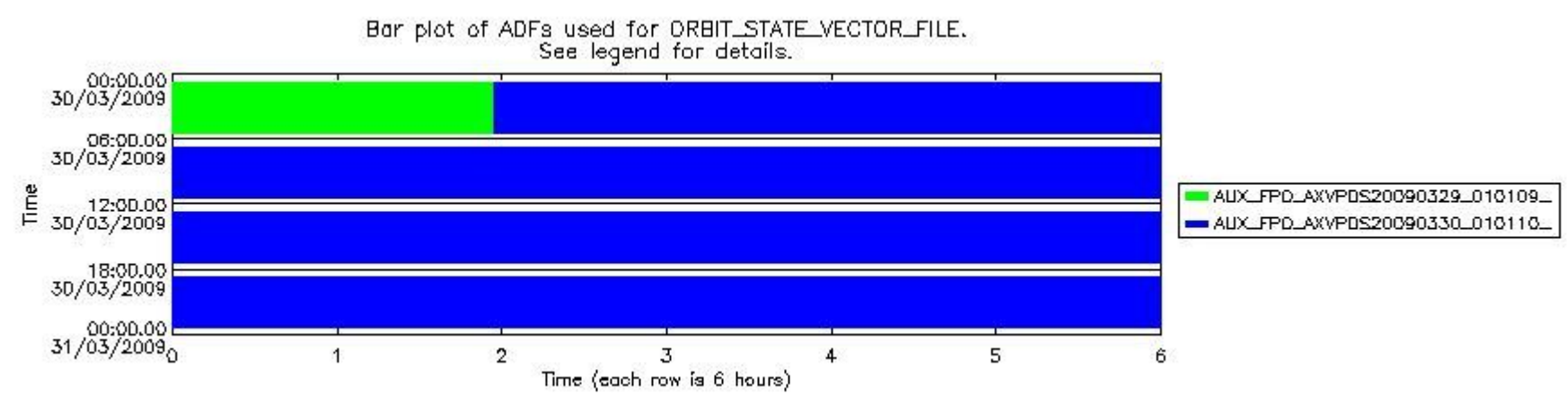
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

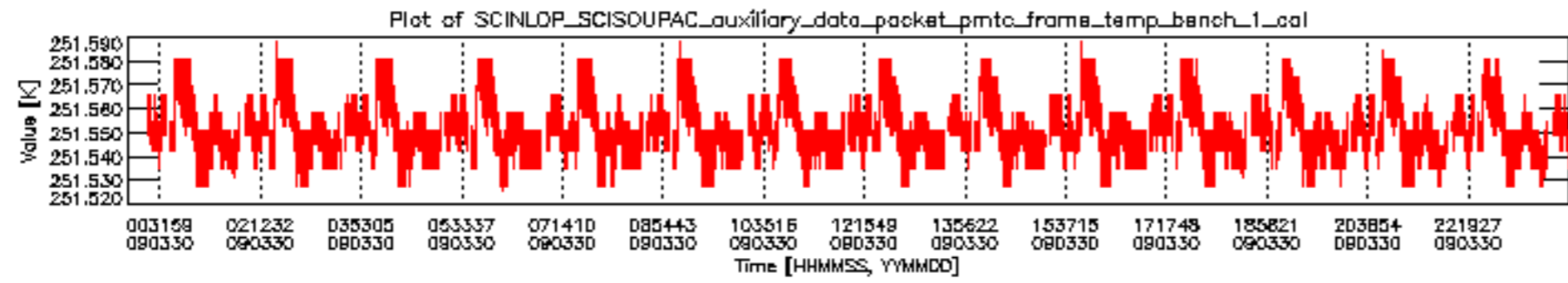
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20090329_010109_20090328_182059_20090407_212747
2	AUX_FPO_AXVPDS20090330_010110_20090329_192958_20090408_205610



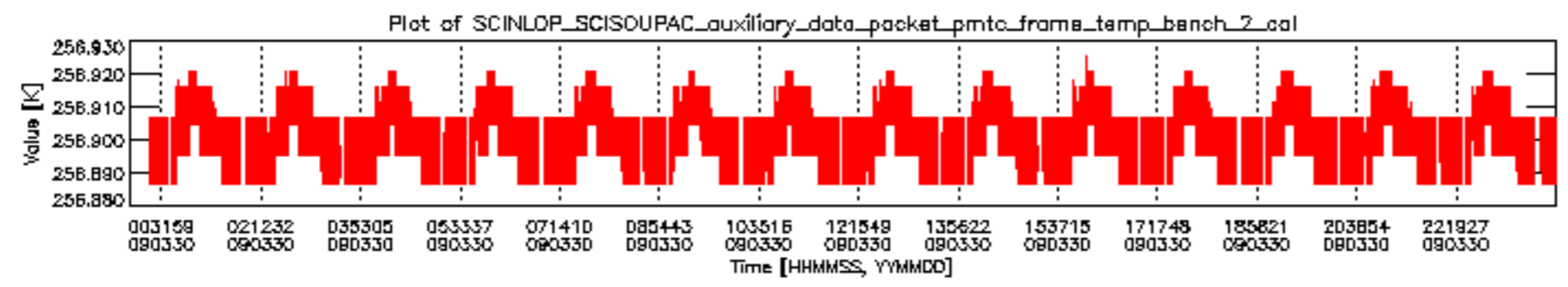
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090330\_7.PNG

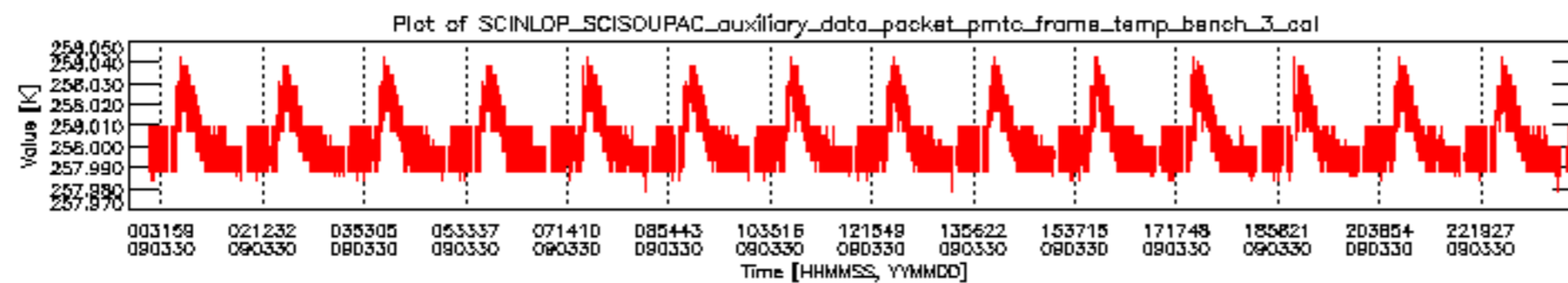


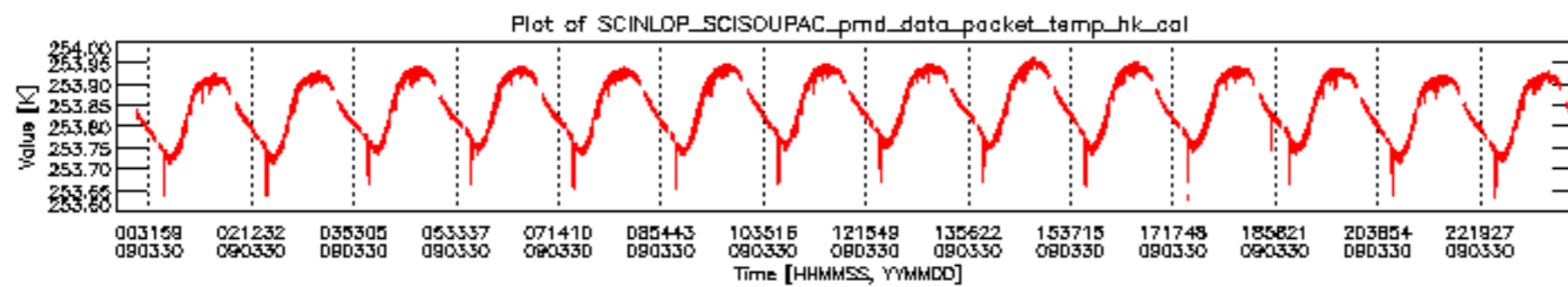
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090330\_8.PNG

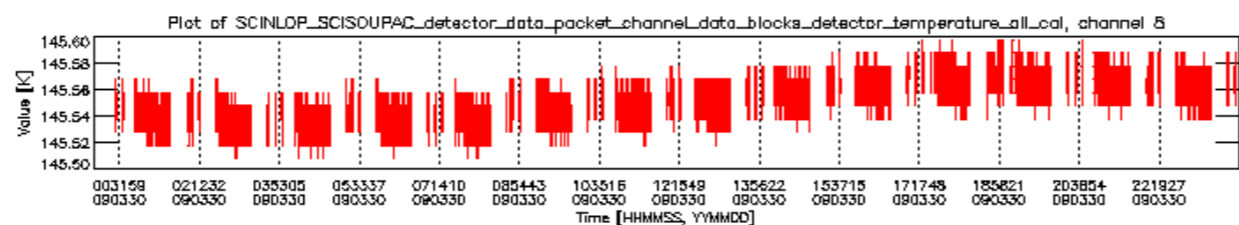
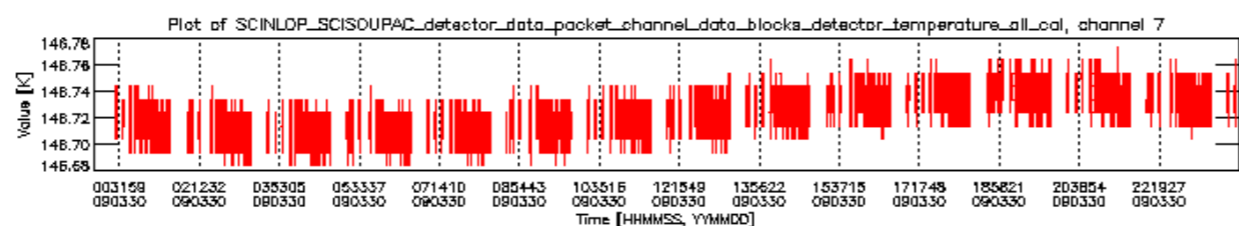
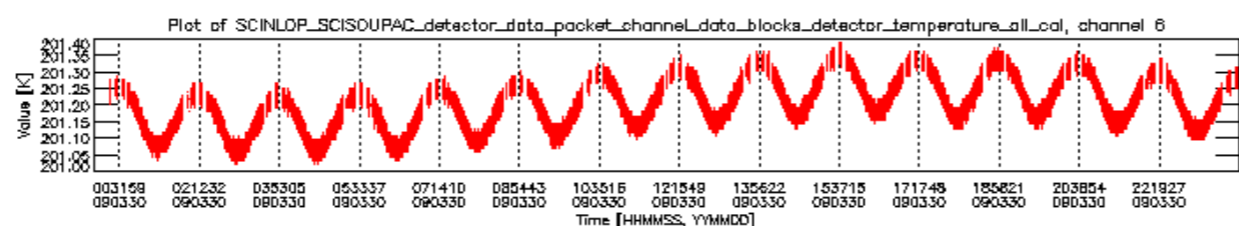
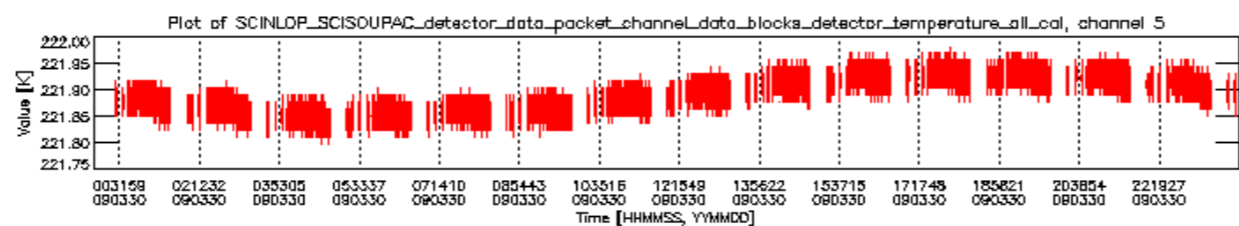
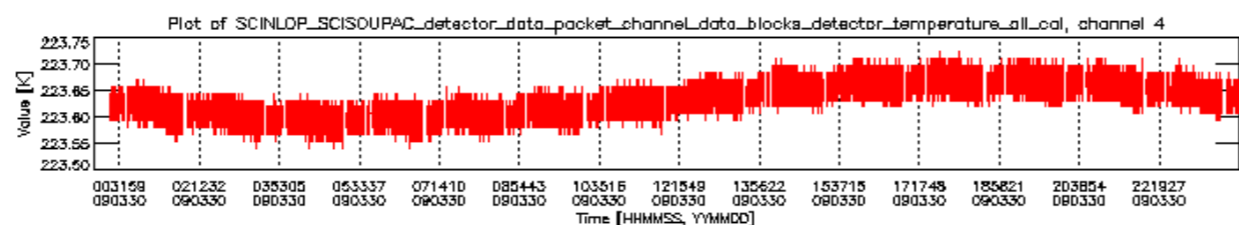
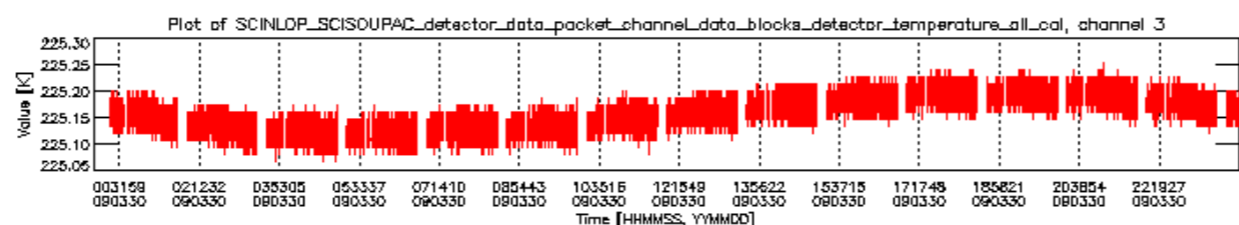
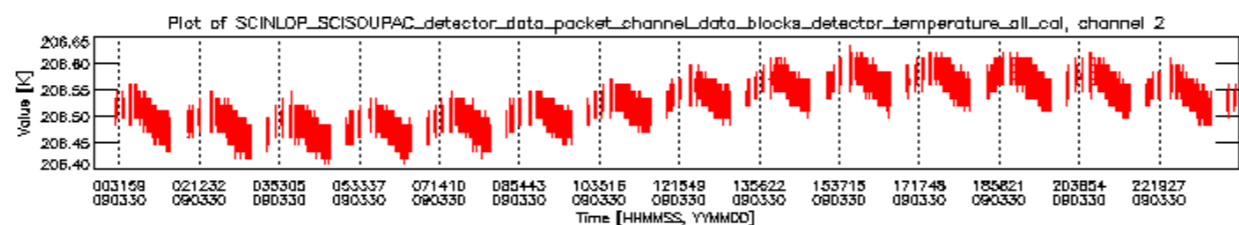
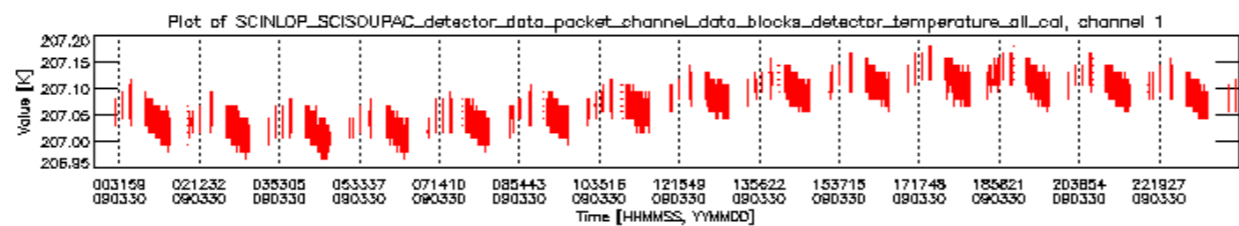


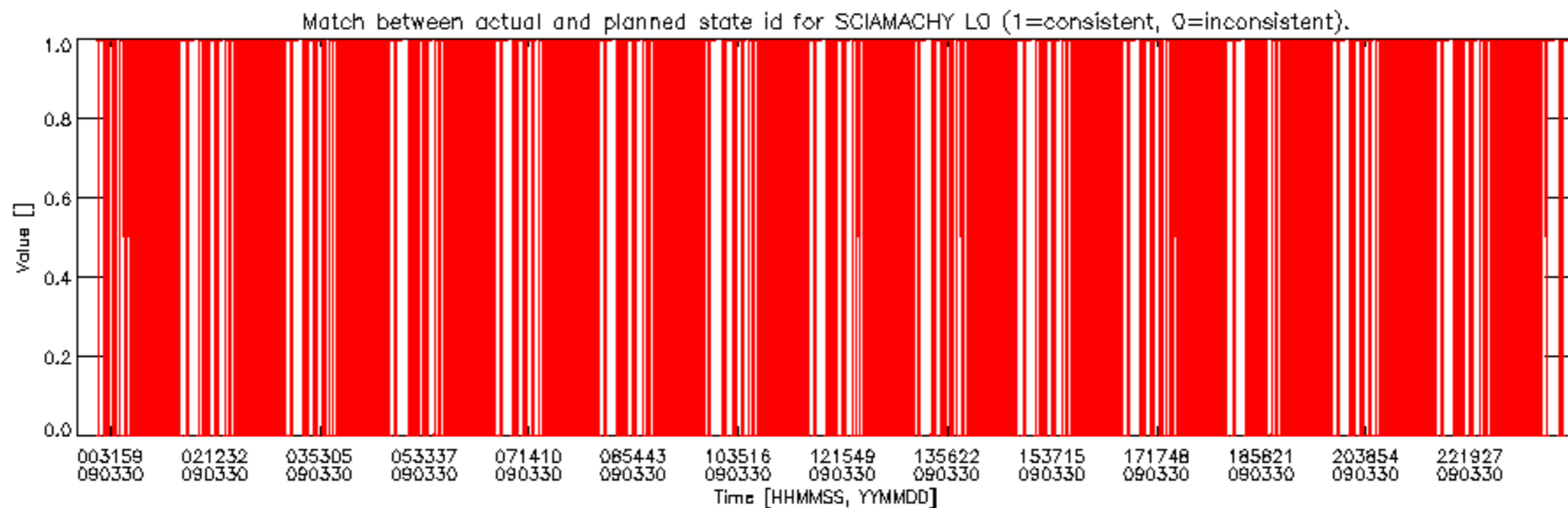
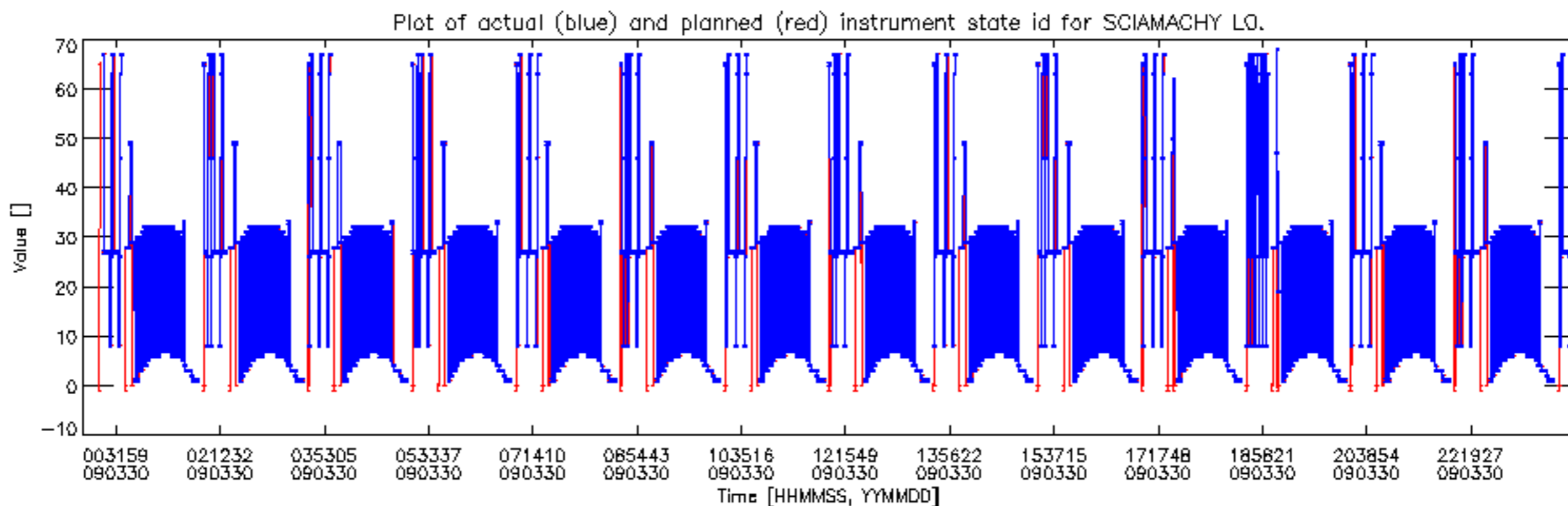












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 30MAR2009.  
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