

## 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	18JUL2008 05:29:55
Data source version	KSPT_L0/4303-N
Processing scope for products	14JUL2008 00:00:00 to 15JUL2008 00:00:00
Start time of first product within scope	13JUL2008 23:18:14
Stop time of last product within scope	15JUL2008 00:28:08
Total number of level 0 products	16
Number of level 0 products with errors	1

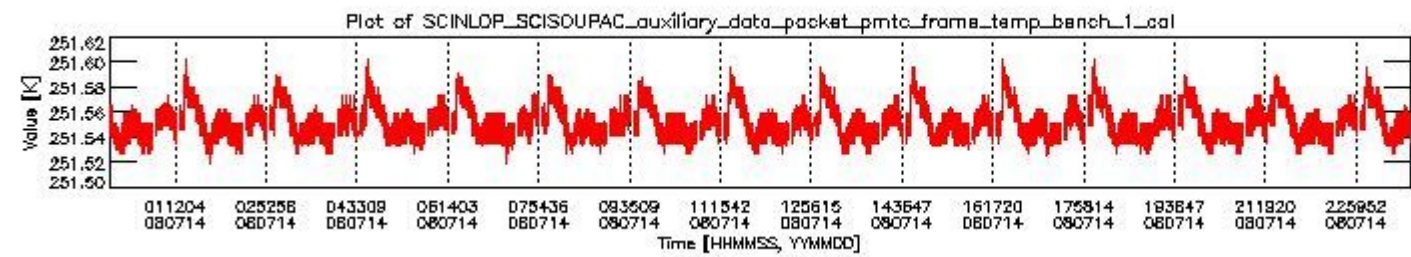
### 0.1.2 Summary per product

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

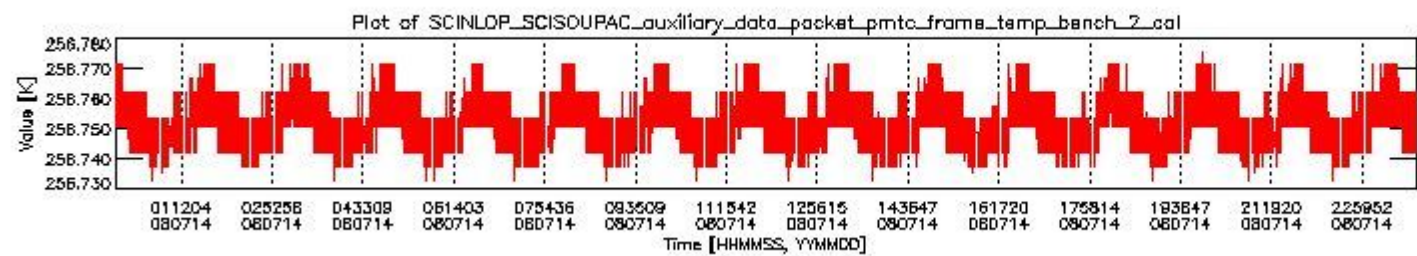
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20080713_231814_000061762070_00187_33307_7100.N1	13JUL2008 23:18:14	14JUL2008 01:01:10	0	0	0	0	0
1	SCI_NL__OPNPDE20080714_005943_000046742070_00188_33308_7101.N1	14JUL2008 00:59:43	14JUL2008 02:17:37	0	0	0	0	0
2	SCI_NL__OPNPDE20080714_021628_000058302070_00189_33309_7102.N1	14JUL2008 02:16:28	14JUL2008 03:53:39	0	0	0	0	0
3	SCI_NL__OPNPDE20080714_035230_000061052070_00190_33310_7103.N1	14JUL2008 03:52:30	14JUL2008 05:34:15	0	0	0	0	0
4	SCI_NL__OPNPDE20080714_053415_000060922070_00191_33311_7104.N1	14JUL2008 05:34:15	14JUL2008 07:15:47	0	0	0	0	0
5	SCI_NL__OPNPDK20080714_071451_000039892070_00192_33312_8762.N1	14JUL2008 07:14:51	14JUL2008 08:21:20	0	0	0	0	0
6	SCI_NL__OPNPDK20080714_082120_000061482070_00193_33313_8763.N1	14JUL2008 08:21:20	14JUL2008 10:03:48	1	0	1	0	0
7	SCI_NL__OPNPDK20080714_100348_000059802070_00194_33314_8764.N1	14JUL2008 10:03:48	14JUL2008 11:43:28	0	0	0	0	0
8	SCI_NL__OPNPDK20080714_114328_000059122070_00195_33315_8765.N1	14JUL2008 11:43:28	14JUL2008 13:22:00	0	0	0	0	0
9	SCI_NL__OPNPDK20080714_132051_000059802070_00196_33316_8766.N1	14JUL2008 13:20:51	14JUL2008 15:00:31	0	0	0	0	0
10	SCI_NL__OPNPDK20080714_150031_000058432070_00197_33317_8767.N1	14JUL2008 15:00:31	14JUL2008 16:37:55	0	0	0	0	0
11	SCI_NL__OPNPDK20080714_163755_000059282070_00198_33318_8768.N1	14JUL2008 16:37:55	14JUL2008 18:16:43	0	0	0	0	0
12	SCI_NL__OPNPDK20080714_181438_000059122070_00199_33319_8769.N1	14JUL2008 18:14:38	14JUL2008 19:53:10	0	0	0	0	0
13	SCI_NL__OPNPDE20080714_195310_000040342070_00200_33320_7105.N1	14JUL2008 19:53:10	14JUL2008 21:00:24	0	0	0	0	0
14	SCI_NL__OPNPDE20080714_210024_000064602070_00200_33320_7106.N1	14JUL2008 21:00:24	14JUL2008 22:48:04	0	0	0	0	0
15	SCI_NL__OPNPDE20080714_224640_000060882070_00201_33321_7107.N1	14JUL2008 22:46:40	15JUL2008 00:28:08	0	0	0	0	0

## 0.2 Product Quality Indicators

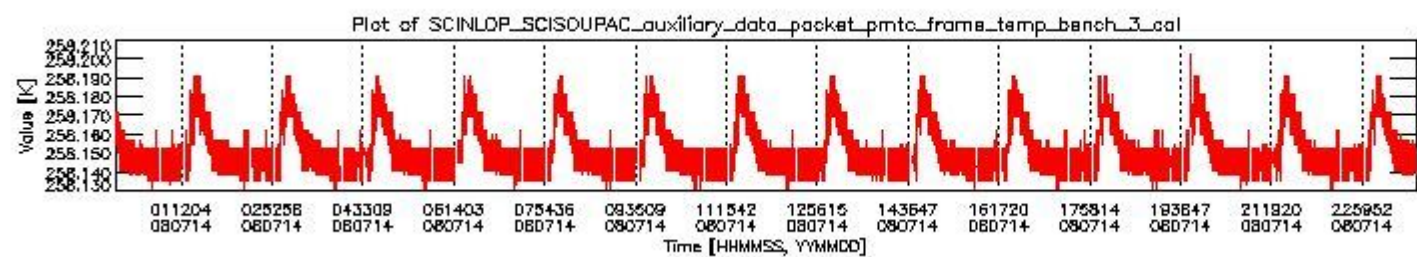
This section shows information about product quality, currently temperatures.



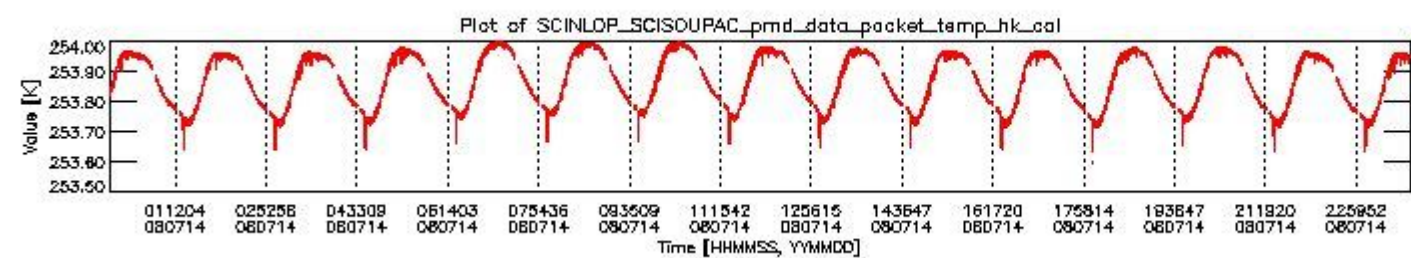
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080714\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080714\_1.PNG

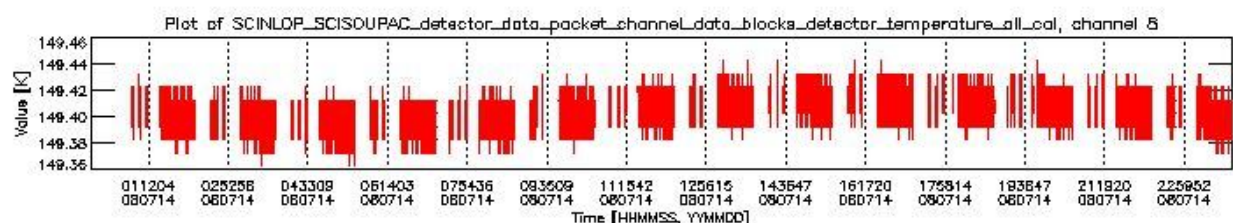
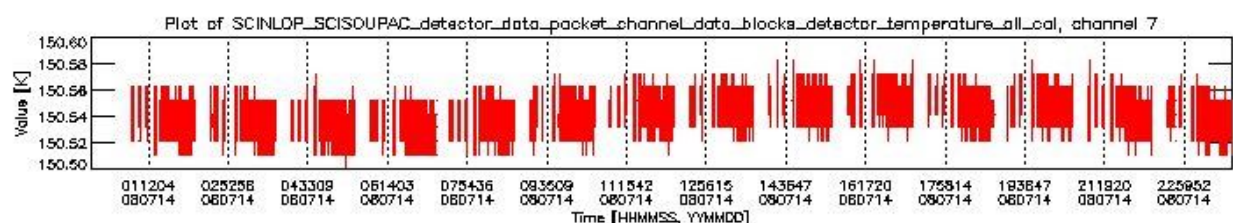
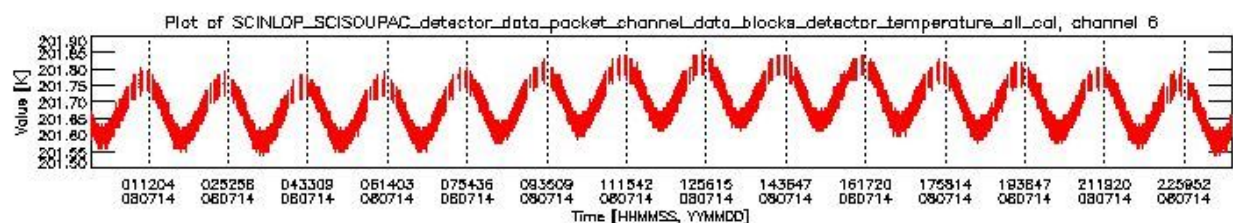
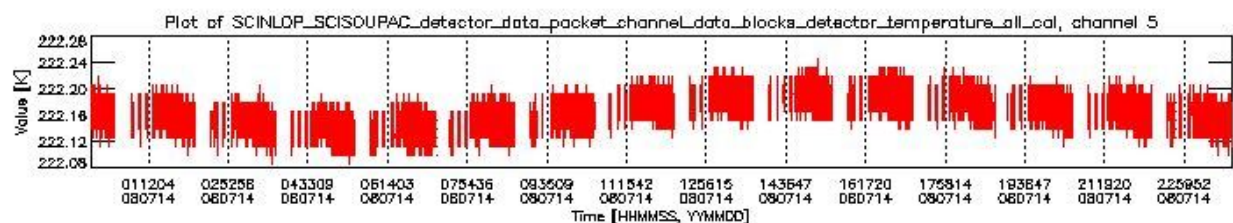
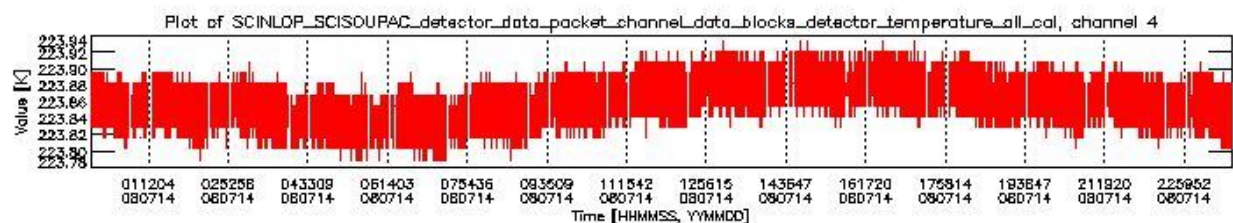
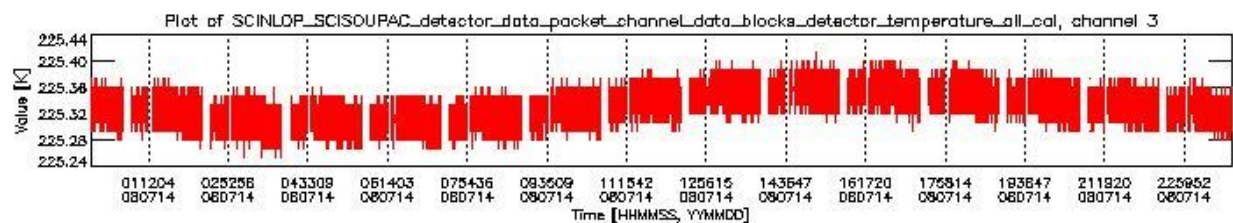
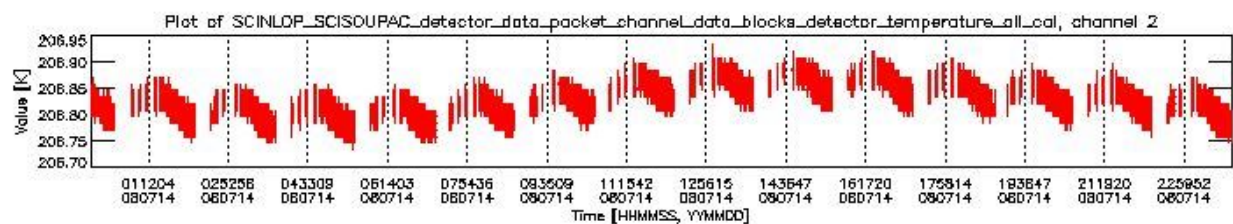
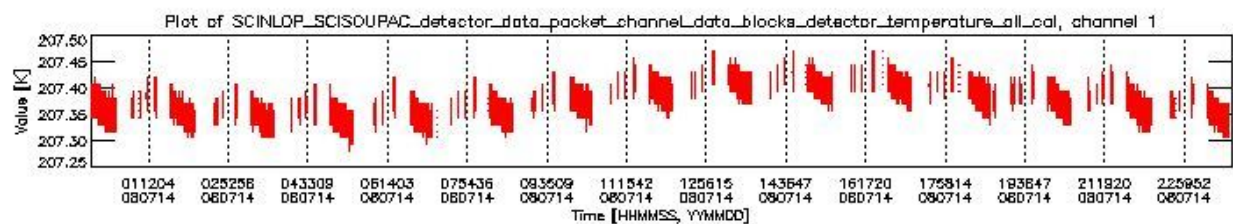


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080714\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080714\_3.PNG



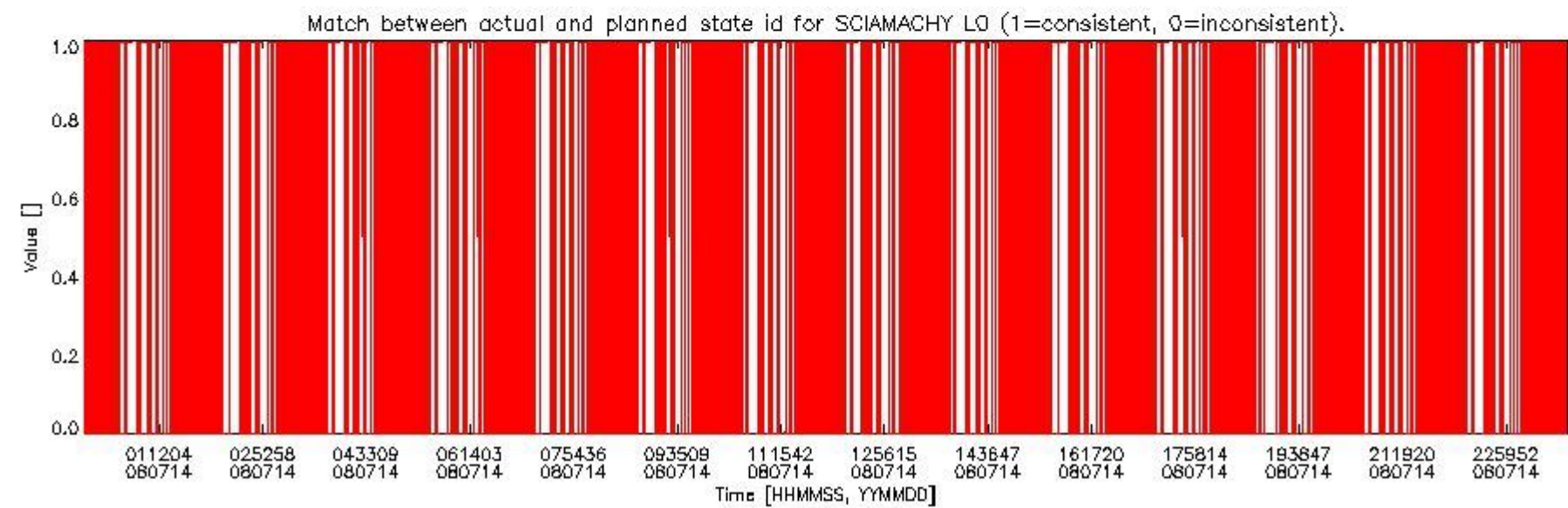
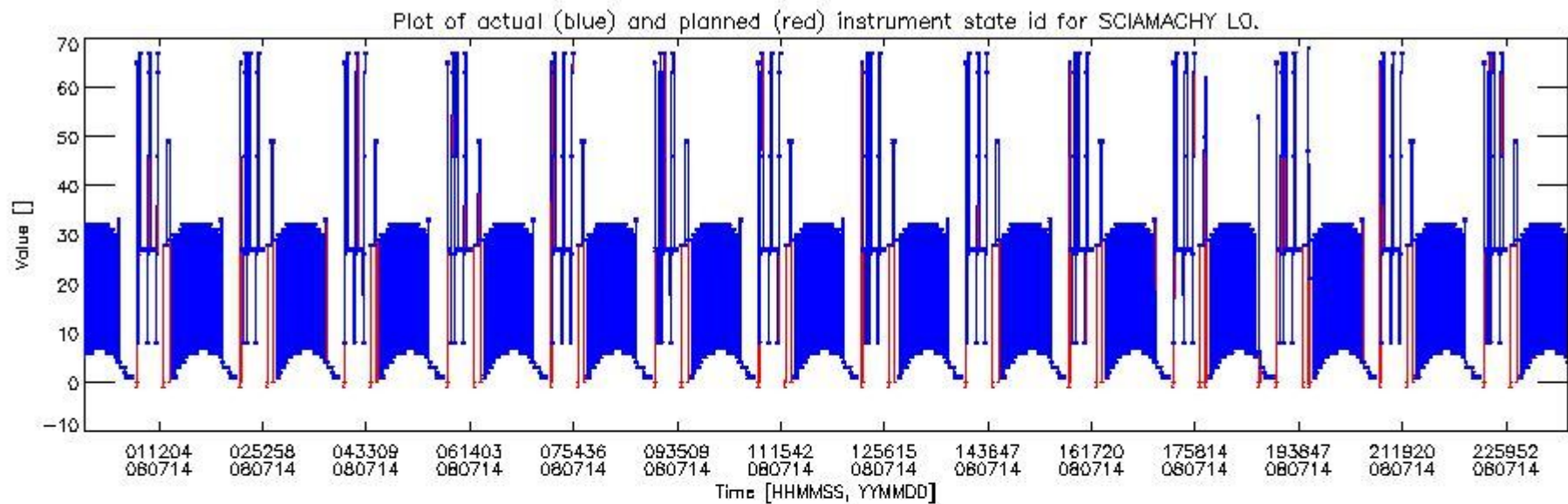


### 0.3 State monitoring

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: **30590**

#	Actual time	Actual value	Planned time	Planned value
0	14JUL2008 00:00:11.996153	6	14JUL2008 00:00:11.996153	32
1	14JUL2008 00:00:12.371166	6	14JUL2008 00:00:12.371166	32
2	14JUL2008 00:00:12.621135	6	14JUL2008 00:00:12.621135	32
3	14JUL2008 00:00:12.871143	6	14JUL2008 00:00:12.871143	32
4	14JUL2008 00:00:13.121152	6	14JUL2008 00:00:13.121152	32
5	14JUL2008 00:00:13.371161	6	14JUL2008 00:00:13.371161	32
6	14JUL2008 00:00:13.621169	6	14JUL2008 00:00:13.621169	32
7	14JUL2008 00:00:13.871138	6	14JUL2008 00:00:13.871138	32
8	14JUL2008 00:00:14.121147	6	14JUL2008 00:00:14.121147	32
9	14JUL2008 00:00:14.371155	6	14JUL2008 00:00:14.371155	32
10	14JUL2008 00:00:14.621164	6	14JUL2008 00:00:14.621164	32
11	14JUL2008 00:00:14.871132	6	14JUL2008 00:00:14.871132	32
12	14JUL2008 00:00:15.121141	6	14JUL2008 00:00:15.121141	32
13	14JUL2008 00:00:15.371150	6	14JUL2008 00:00:15.371150	32
14	14JUL2008 00:00:15.621158	6	14JUL2008 00:00:15.621158	32
15	14JUL2008 00:00:15.871167	6	14JUL2008 00:00:15.871167	32
16	14JUL2008 00:00:16.121136	6	14JUL2008 00:00:16.121136	32
17	14JUL2008 00:00:16.371144	6	14JUL2008 00:00:16.371144	32
18	14JUL2008 00:00:16.621153	6	14JUL2008 00:00:16.621153	32
19	14JUL2008 00:00:16.871162	6	14JUL2008 00:00:16.871162	32
	...	...	...	...



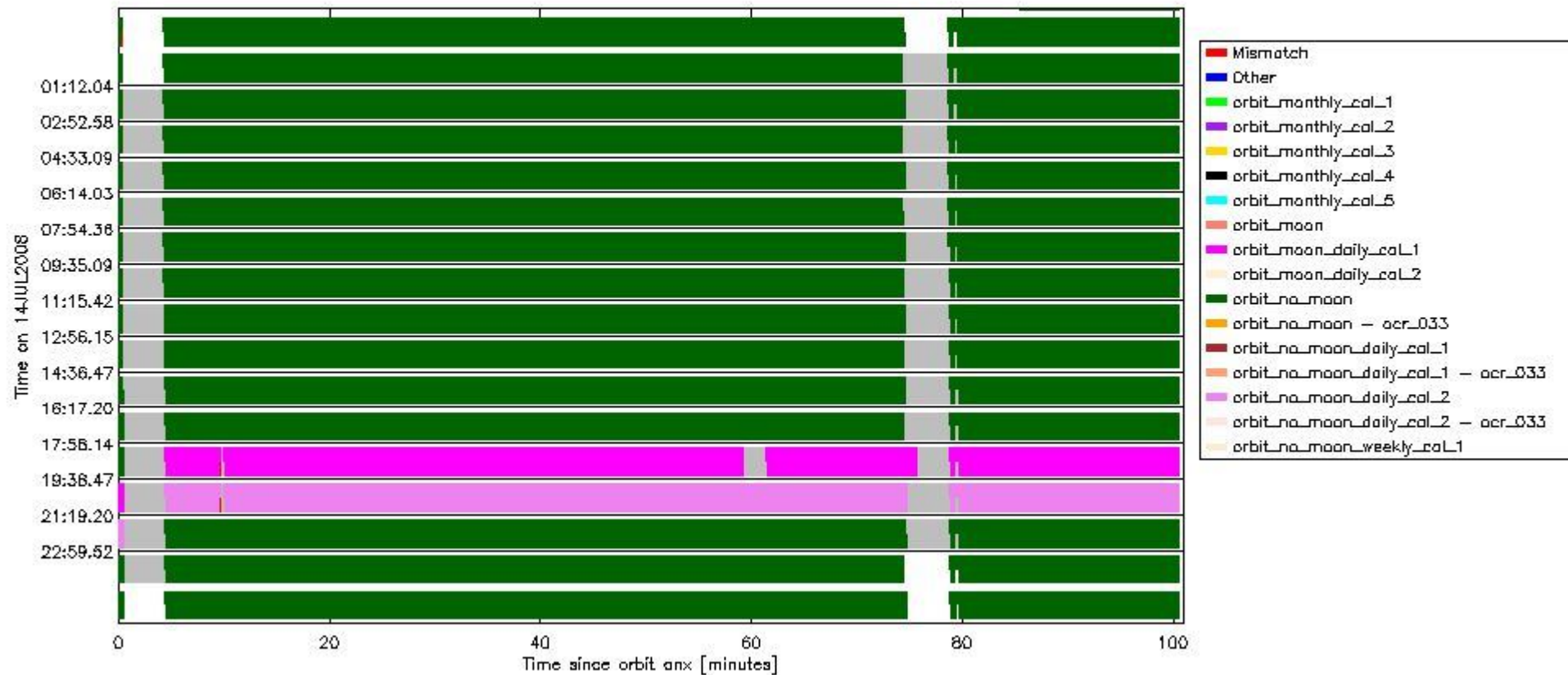
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080714\_5.PNG

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 14JUL2008.  
 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\_20080714\_6.PNG

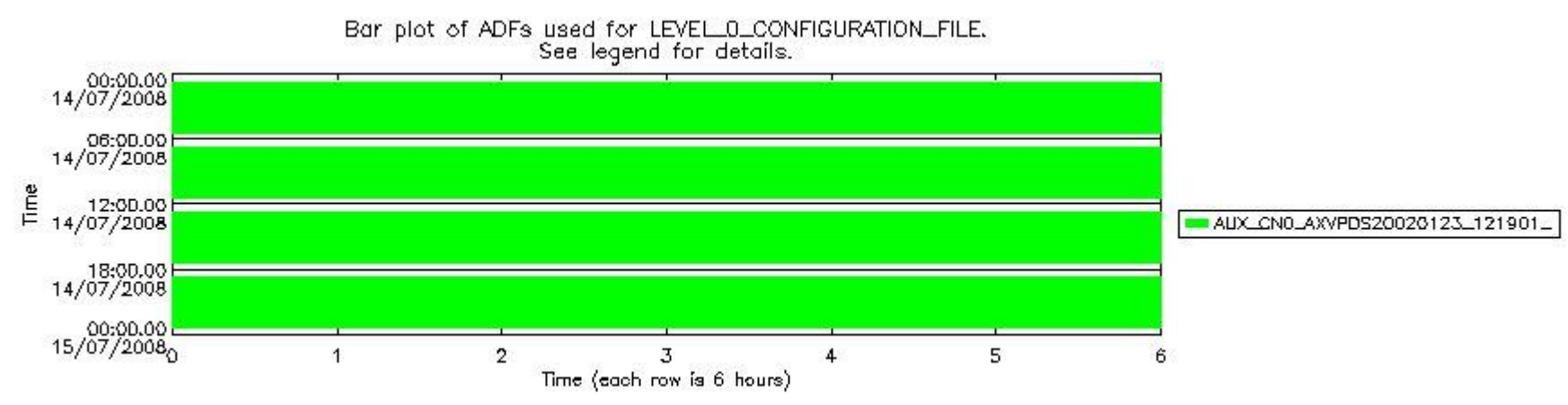
## 0.4 ADF monitoring

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

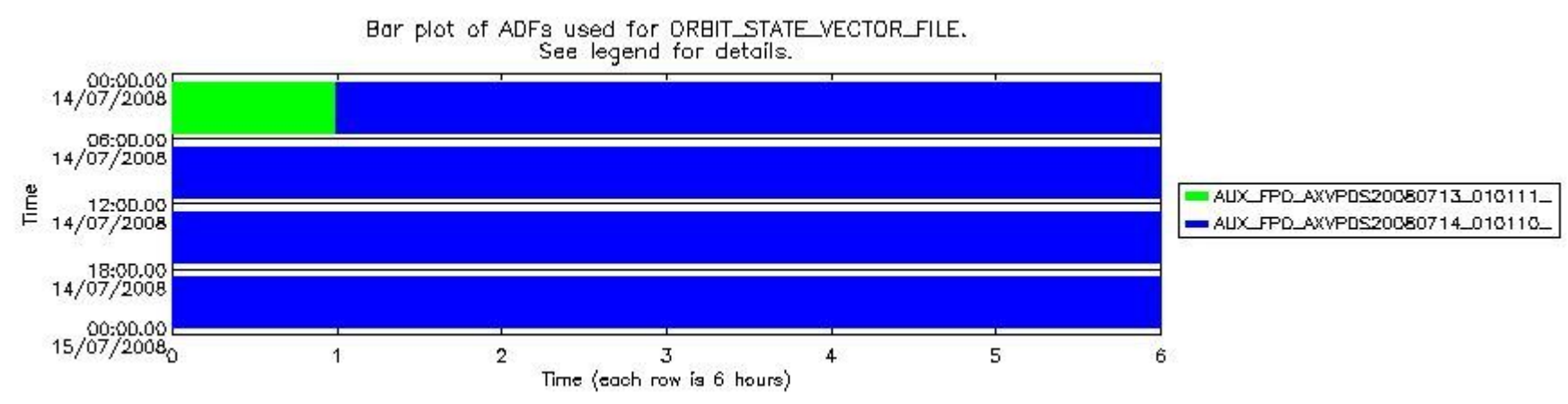
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

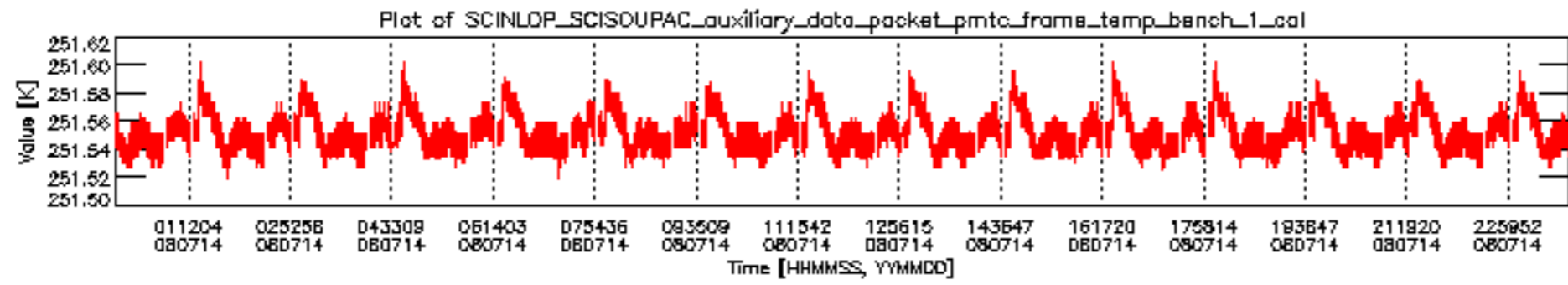
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20080713_010111_20080712_190120_20080722_202733</b>
2	<b>AUX_FPO_AXVPDS20080714_010110_20080713_182943_20080723_213632</b>



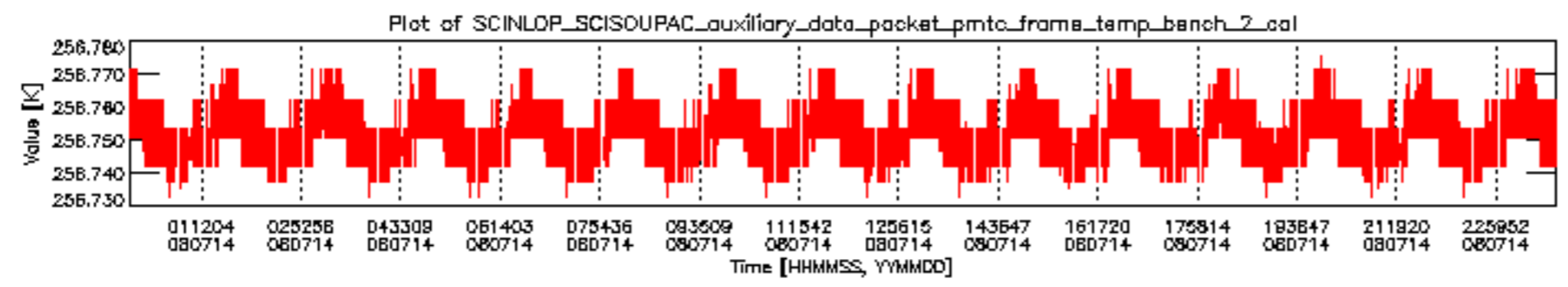
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080714\_7.PNG

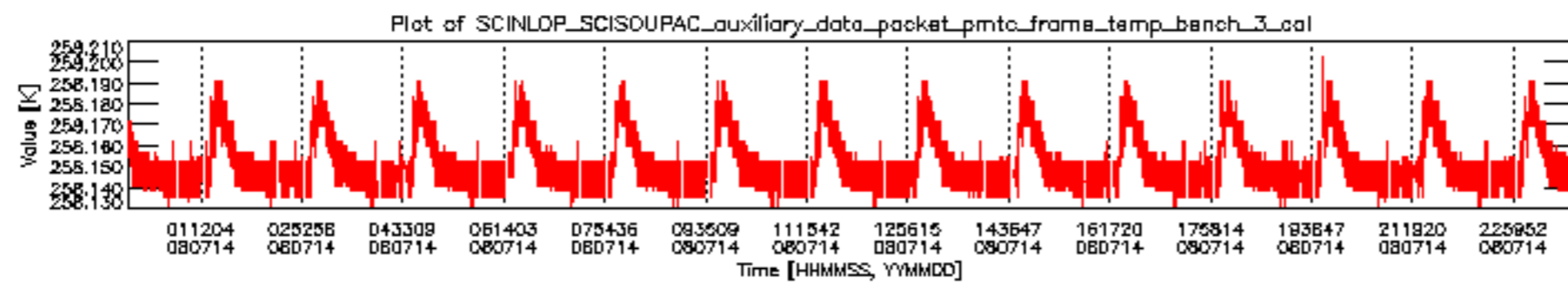


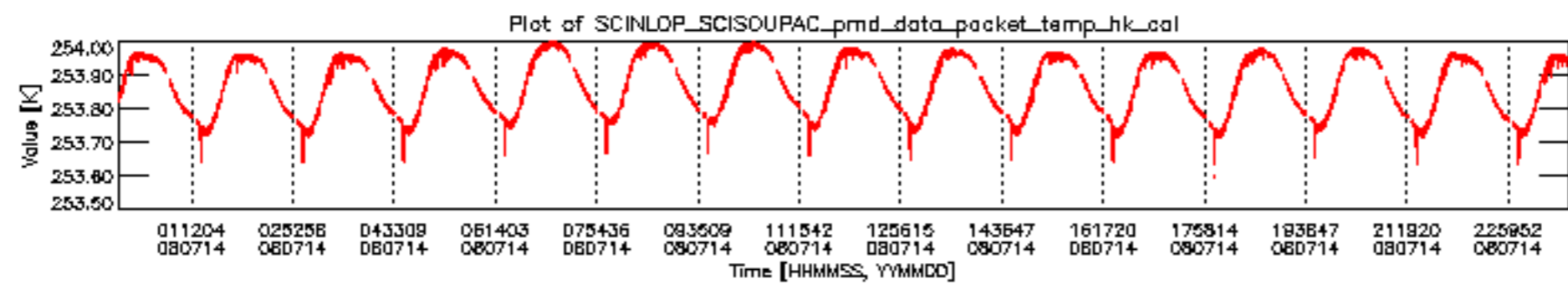
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20080714\_8.PNG

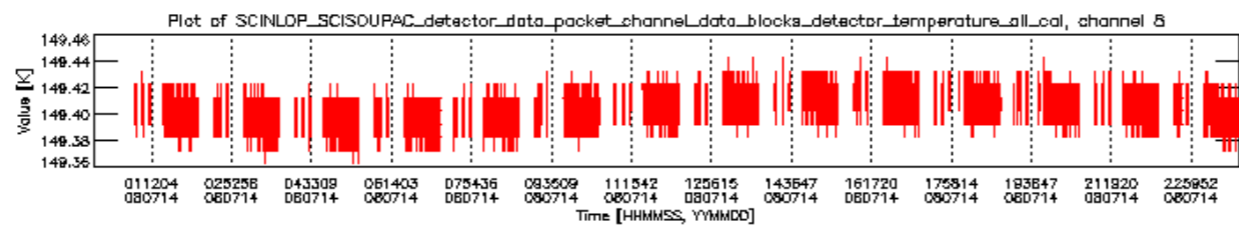
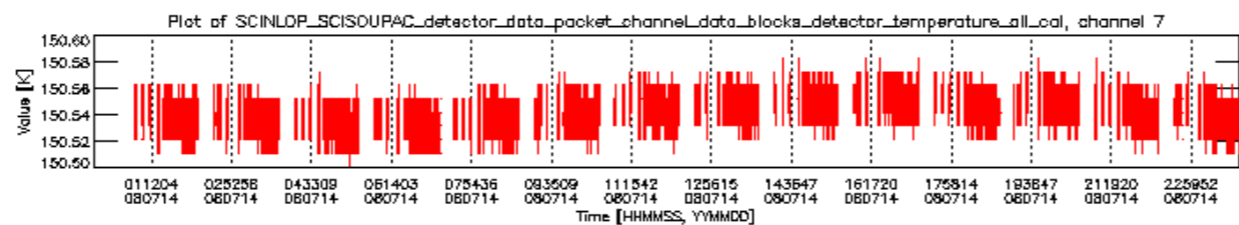
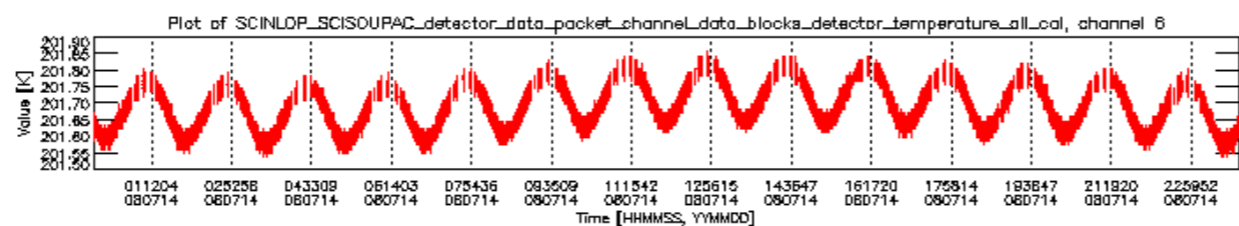
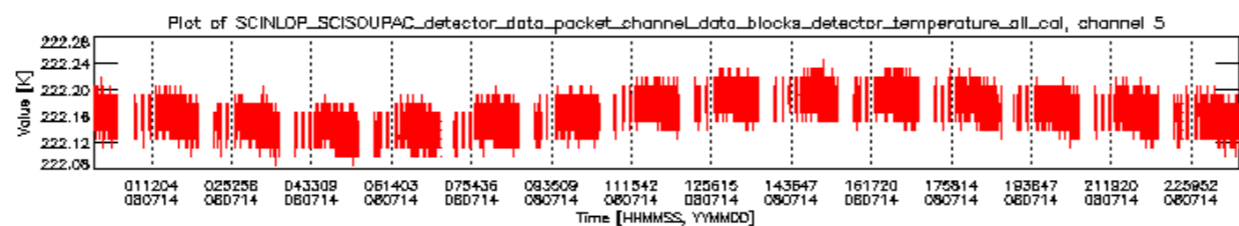
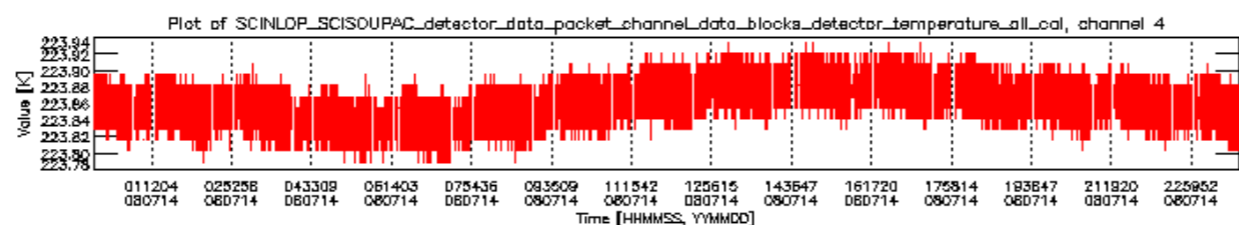
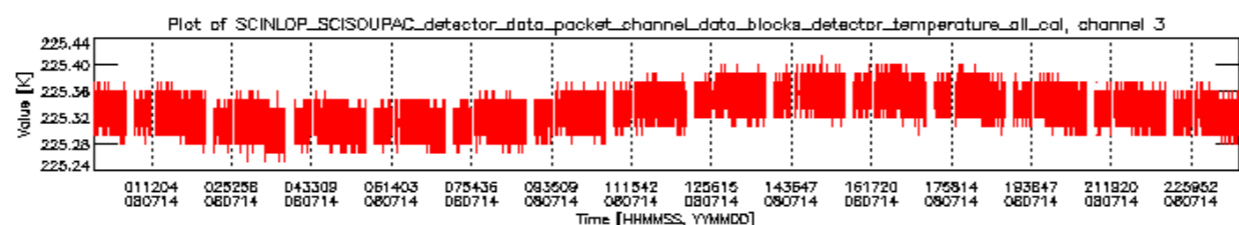
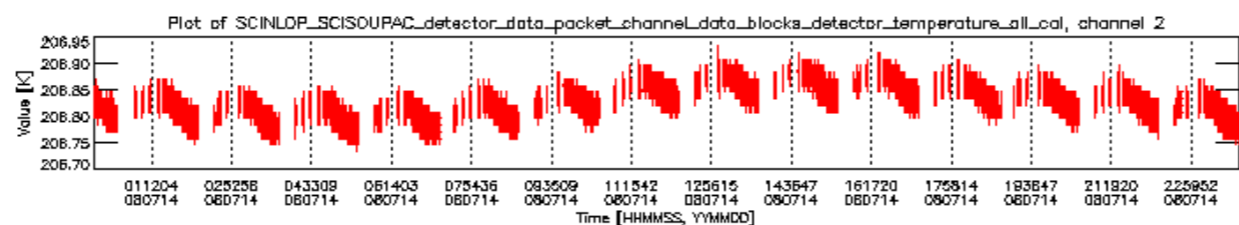
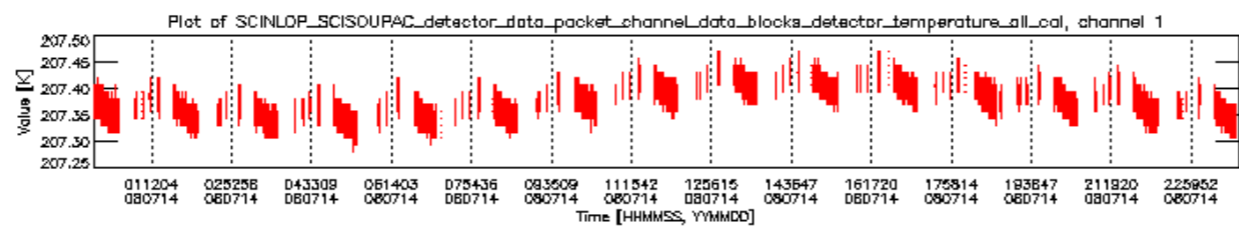
















Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
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