

## 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	06JUN2010 02:33:53
Data source version	<Any version>
Processing scope for products	30MAY2010 00:00:00 to 31MAY2010 00:00:00
Start time of first product within scope	30MAY2010 00:30:05
Stop time of last product within scope	31MAY2010 01:38:53
Total number of Level 0 products	16
Number of Level 0 products with errors	1

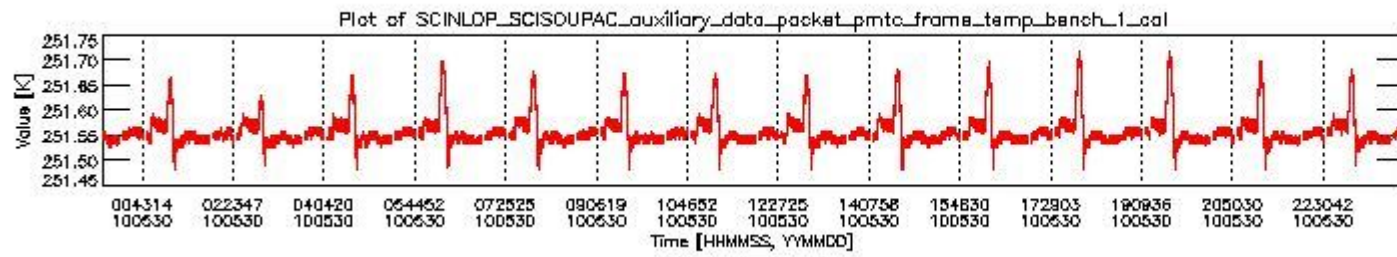
### 0.1.2 Summary per product

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

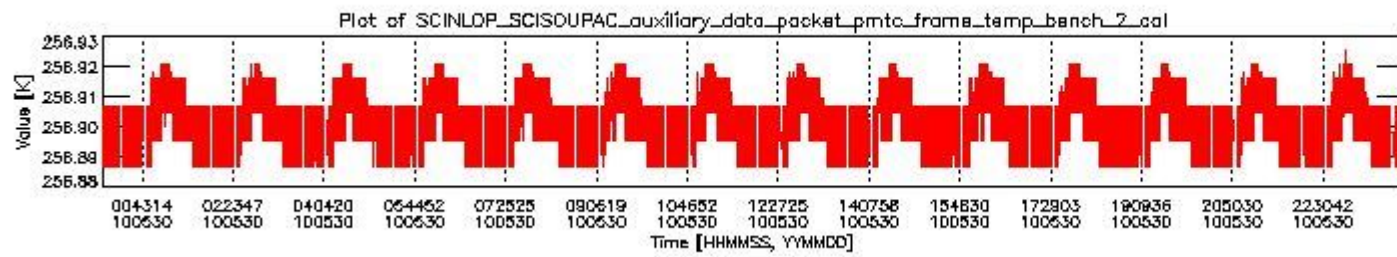
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20100530_003005_000059472089_00474_43113_1550.N1	30MAY2010 00:30:05	30MAY2010 02:09:12	0	0	0	0	0
1	SCI_NL__OPNPDE20100530_020705_000046072089_00475_43114_1551.N1	30MAY2010 02:07:05	30MAY2010 03:23:52	0	0	0	0	0
2	SCI_NL__OPNPDE20100530_032256_000061602089_00476_43115_1552.N1	30MAY2010 03:22:56	30MAY2010 05:05:37	0	0	0	0	0
3	SCI_NL__OPNPDE20100530_050441_000060922089_00477_43116_1553.N1	30MAY2010 05:04:41	30MAY2010 06:46:12	0	0	0	0	0
4	SCI_NL__OPNPDK20100530_064504_000040582089_00478_43117_1531.N1	30MAY2010 06:45:04	30MAY2010 07:52:41	0	0	0	0	0
5	SCI_NL__OPNPDK20100530_075241_000061472089_00479_43118_1532.N1	30MAY2010 07:52:41	30MAY2010 09:35:09	0	0	0	0	0
6	SCI_NL__OPNPDK20100530_093509_000059802089_00480_43119_1533.N1	30MAY2010 09:35:09	30MAY2010 11:14:49	0	0	0	0	0
7	SCI_NL__OPNPDK20100530_111353_000060232089_00481_43120_1534.N1	30MAY2010 11:13:53	30MAY2010 12:54:16	1	1	0	0	0
8	SCI_NL__OPNPDK20100530_125320_000059112089_00482_43121_1535.N1	30MAY2010 12:53:20	30MAY2010 14:31:51	0	0	0	0	0
9	SCI_NL__OPNPDK20100530_143151_000059112089_00483_43122_1536.N1	30MAY2010 14:31:51	30MAY2010 16:10:23	0	0	0	0	0
10	SCI_NL__OPNPDK20100530_160914_000057732089_00484_43123_1537.N1	30MAY2010 16:09:14	30MAY2010 17:45:27	0	0	0	0	0
11	SCI_NL__OPNPDK20100530_174431_000060642089_00485_43124_1538.N1	30MAY2010 17:44:31	30MAY2010 19:25:36	0	0	0	0	0
12	SCI_NL__OPNPDK20100530_192427_000062142089_00486_43125_1539.N1	30MAY2010 19:24:27	30MAY2010 21:08:01	0	0	0	0	0
13	SCI_NL__OPNPDE20100530_210705_000042362089_00487_43126_1554.N1	30MAY2010 21:07:05	30MAY2010 22:17:42	0	0	0	0	0
14	SCI_NL__OPNPDE20100530_221708_000061652089_00487_43126_1555.N1	30MAY2010 22:17:08	30MAY2010 23:59:53	0	0	0	0	0
15	SCI_NL__OPNPDE20100530_235909_000059842089_00488_43127_1556.N1	30MAY2010 23:59:09	31MAY2010 01:38:53	0	0	0	0	0

## 0.2 Product Quality Indicators

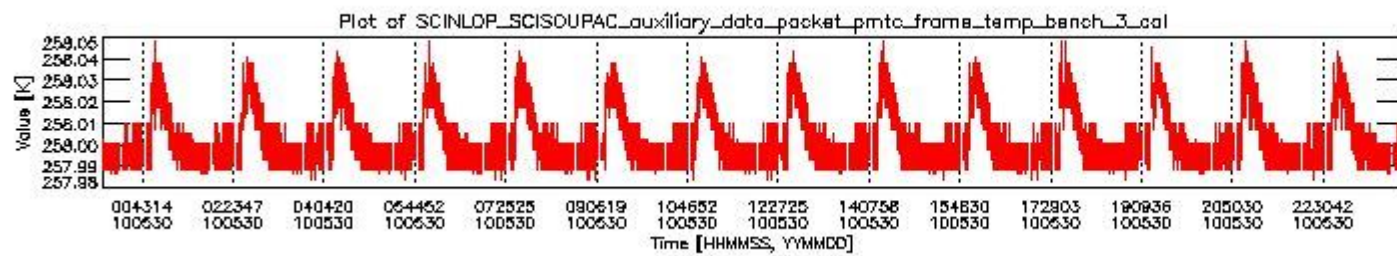
This section shows information about product quality, currently temperatures.



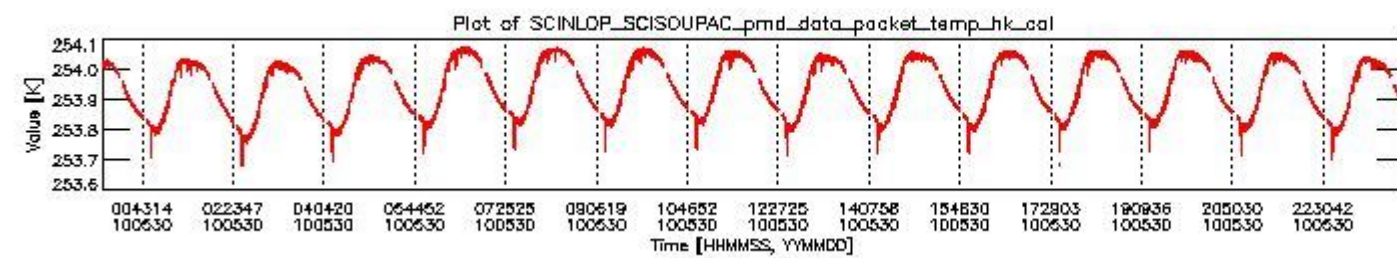
sciamachy\_daily\_report\_level0\_Any\_version\_20100530\_0.PNG



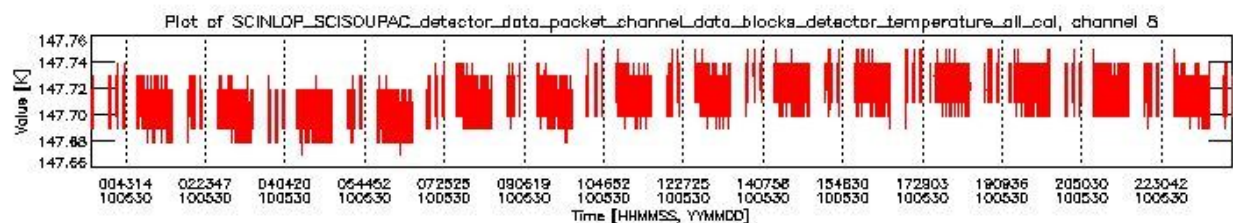
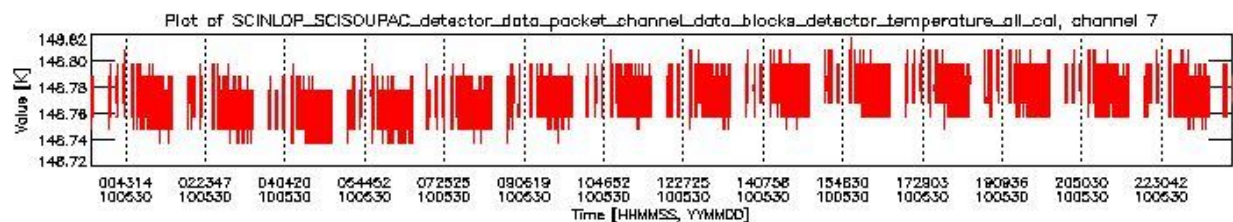
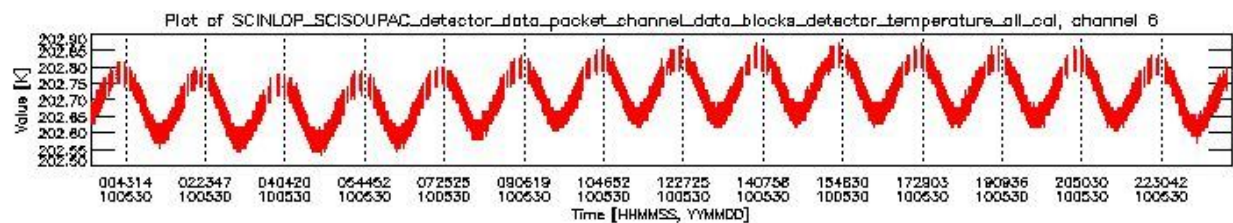
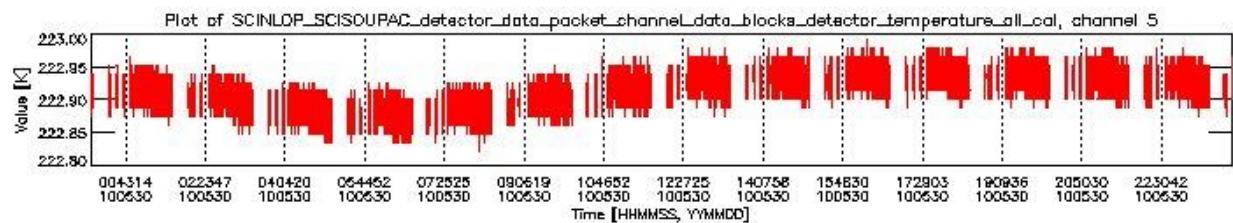
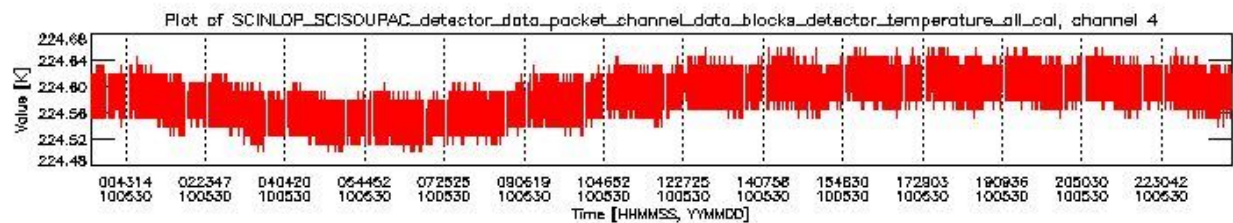
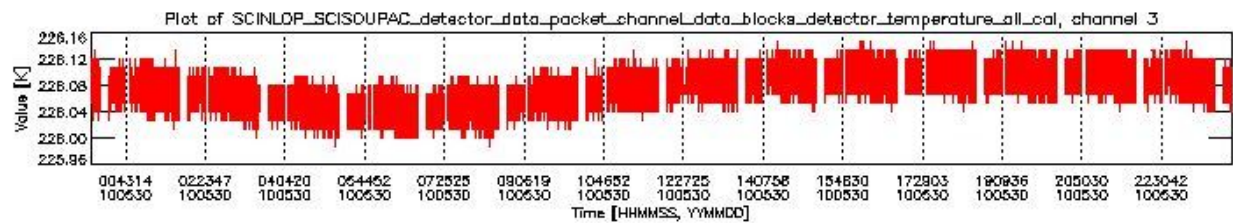
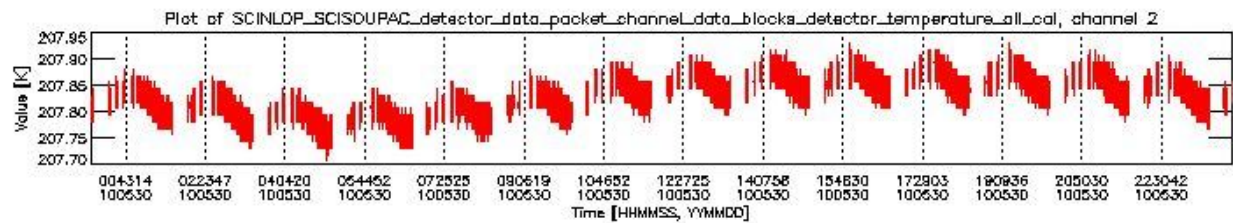
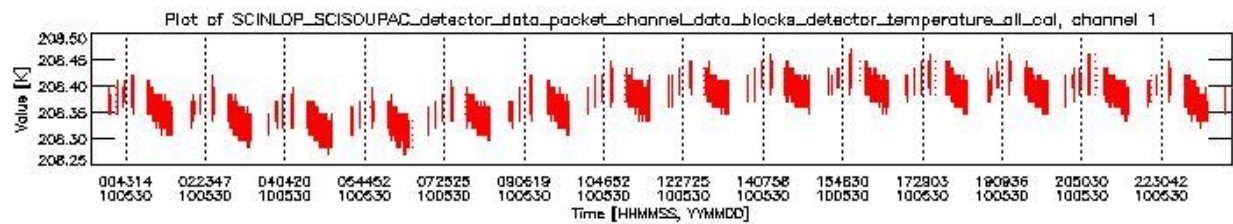
sciamachy\_daily\_report\_level0\_Any\_version\_20100530\_1.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100530\_2.PNG



sciamachy\_daily\_report\_level0\_Any\_version\_20100530\_3.PNG

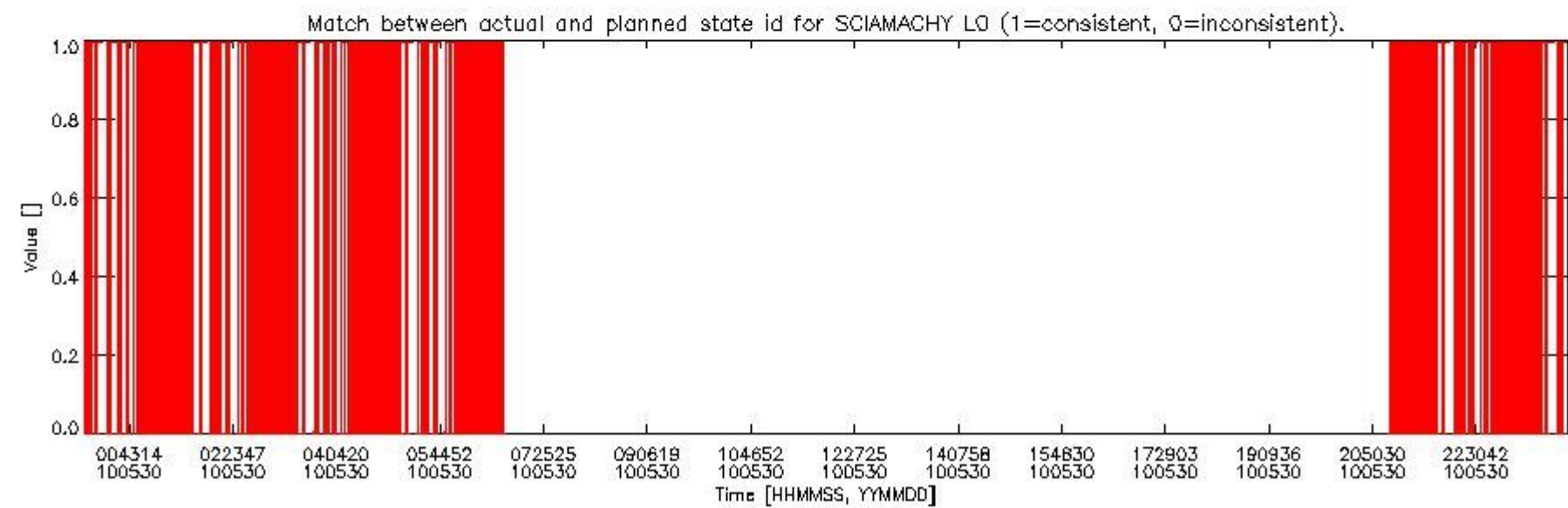
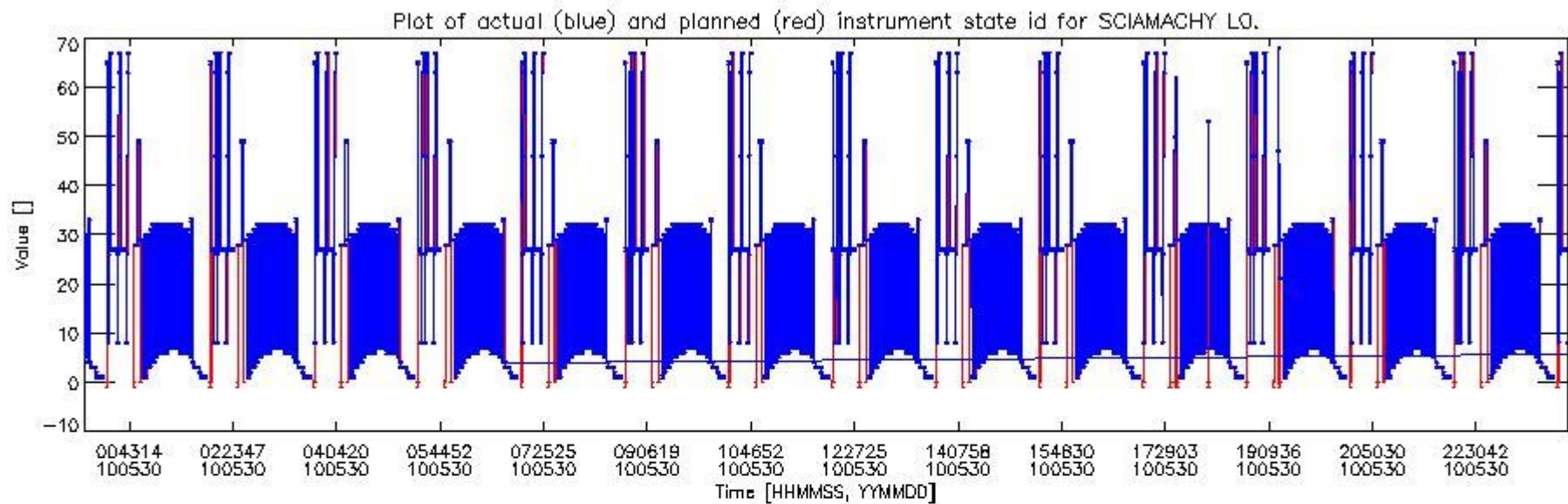


### 0.3 State monitoring

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: **39435**

#	Actual time	Actual value	Planned time	Planned value
0	30MAY2010 00:00:36.843556	5	30MAY2010 00:00:36.843556	30
1	30MAY2010 00:00:37.093556	5	30MAY2010 00:00:37.093556	30
2	30MAY2010 00:00:37.218556	5	30MAY2010 00:00:37.218556	30
3	30MAY2010 00:00:37.343556	5	30MAY2010 00:00:37.343556	30
4	30MAY2010 00:00:37.468556	5	30MAY2010 00:00:37.468556	30
5	30MAY2010 00:00:37.593556	5	30MAY2010 00:00:37.593556	30
6	30MAY2010 00:00:37.718556	5	30MAY2010 00:00:37.718556	30
7	30MAY2010 00:00:37.843556	5	30MAY2010 00:00:37.843556	30
8	30MAY2010 00:00:37.968556	5	30MAY2010 00:00:37.968556	30
9	30MAY2010 00:00:38.093556	5	30MAY2010 00:00:38.093556	30
10	30MAY2010 00:00:38.218556	5	30MAY2010 00:00:38.218556	30
11	30MAY2010 00:00:38.343556	5	30MAY2010 00:00:38.343556	30
12	30MAY2010 00:00:38.468556	5	30MAY2010 00:00:38.468556	30
13	30MAY2010 00:00:38.593556	5	30MAY2010 00:00:38.593556	30
14	30MAY2010 00:00:38.718556	5	30MAY2010 00:00:38.718556	30
15	30MAY2010 00:00:38.843556	5	30MAY2010 00:00:38.843556	30
16	30MAY2010 00:00:38.968556	5	30MAY2010 00:00:38.968556	30
17	30MAY2010 00:00:39.093556	5	30MAY2010 00:00:39.093556	30
18	30MAY2010 00:00:39.218556	5	30MAY2010 00:00:39.218556	30
19	30MAY2010 00:00:39.343556	5	30MAY2010 00:00:39.343556	30
...	...	...	...	...

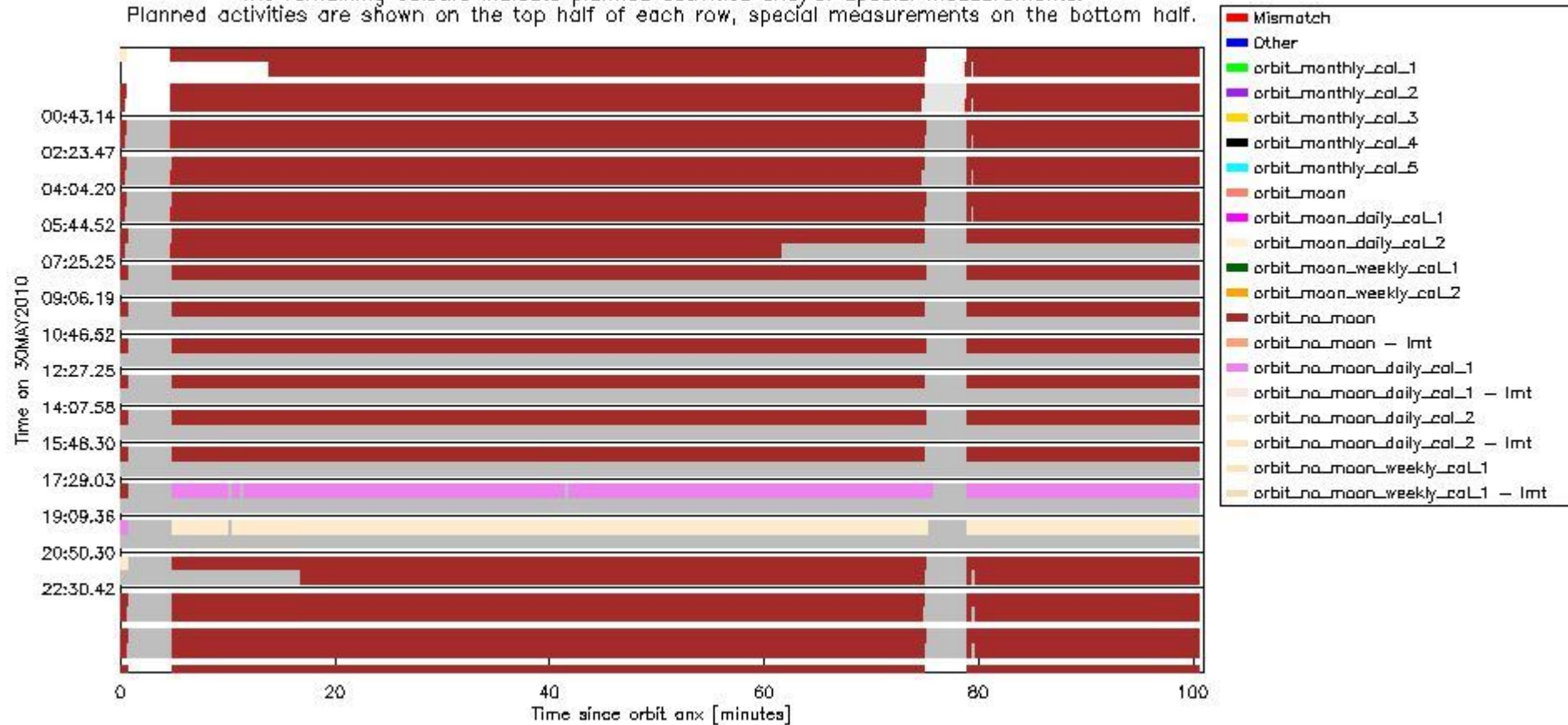


sciamachy\_daily\_report\_level0\_Any\_version\_20100530\_5.PNG

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 30MAY2010.  
 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\_20100530\_6.PNG

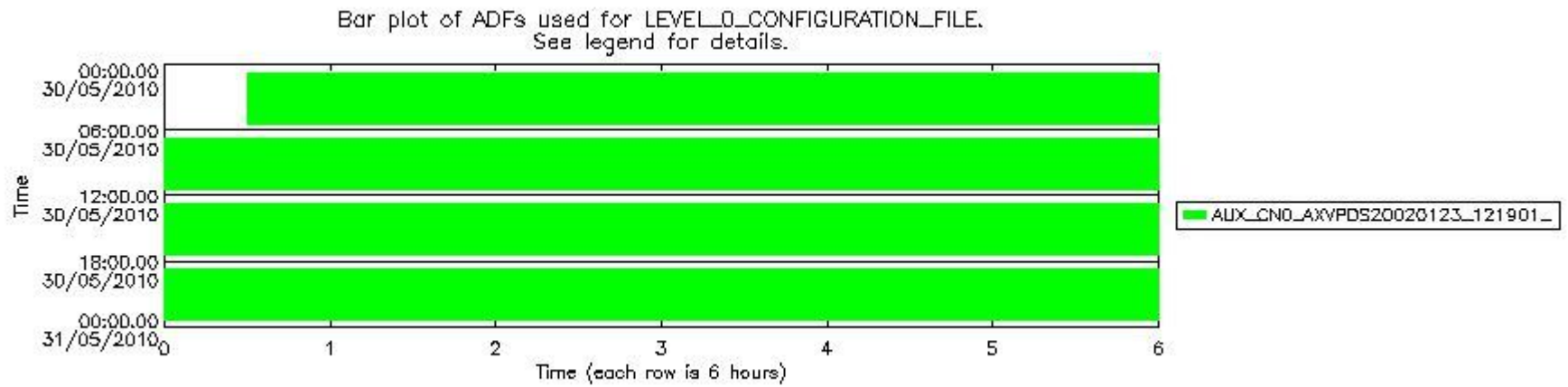
## 0.4 ADF monitoring

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

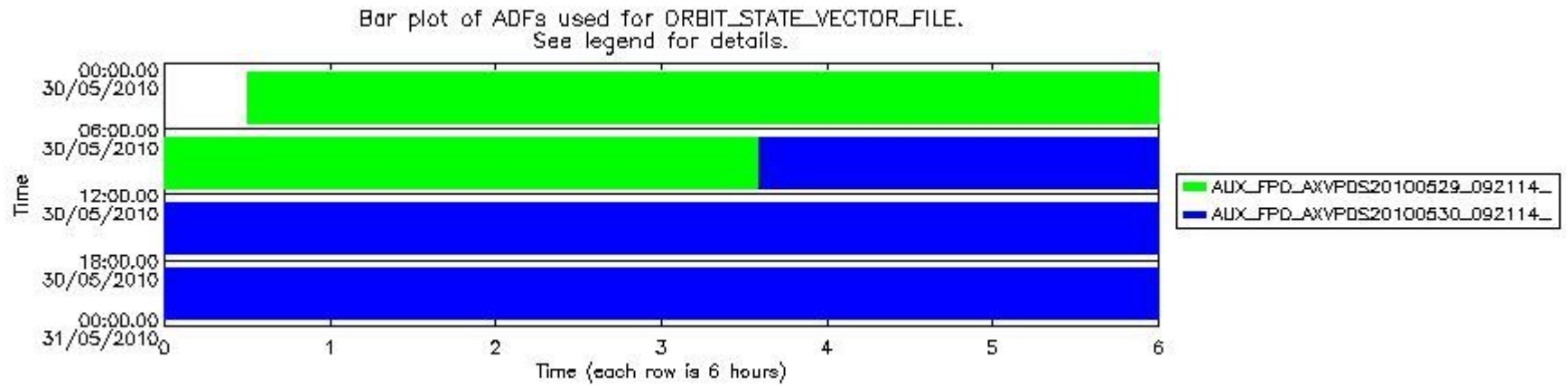
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, showing when and which ADF was used.

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

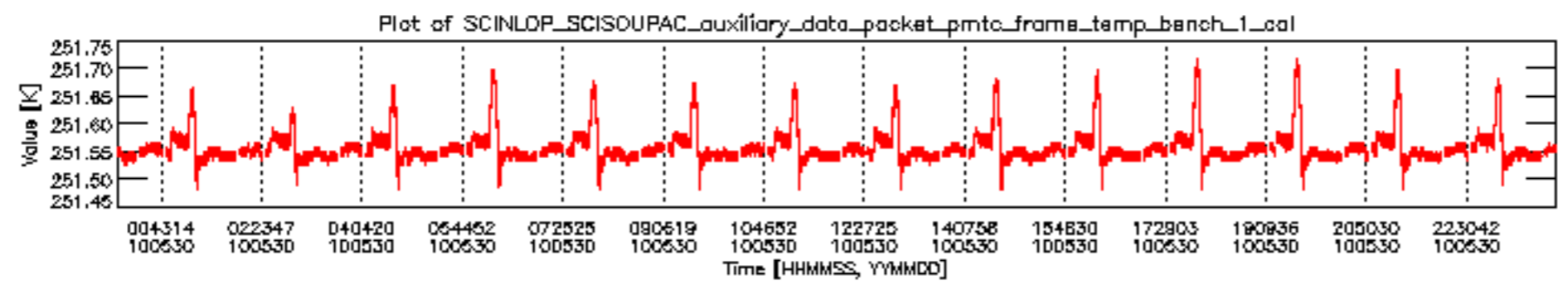
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	AUX_FPO_AXVPDS20100529_092114_20100528_183223_20100607_213913
2	AUX_FPO_AXVPDS20100530_092114_20100529_194122_20100608_210736



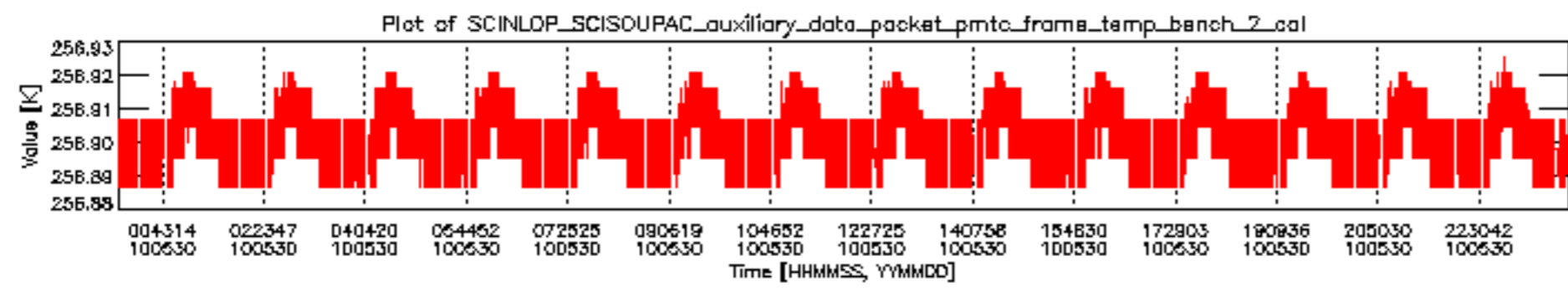
sciamachy\_daily\_report\_level0\_Any\_version\_20100530\_7.PNG

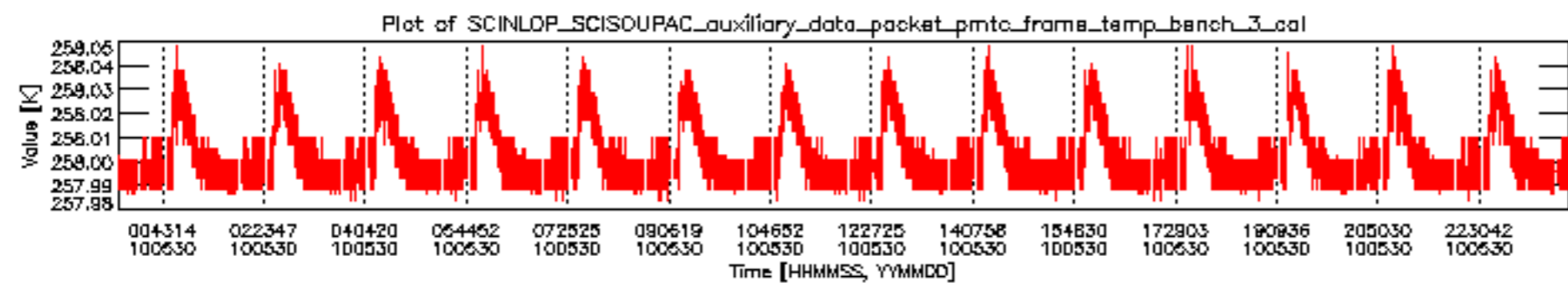


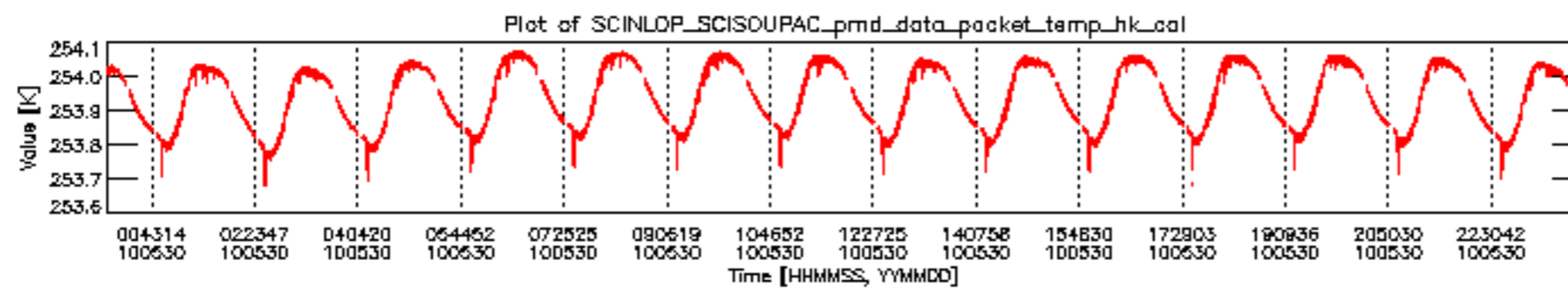
sciamachy\_daily\_report\_level0\_Any\_version\_20100530\_8.PNG

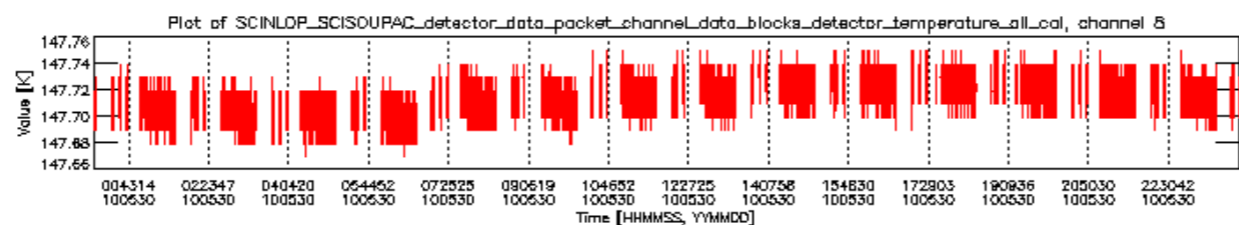
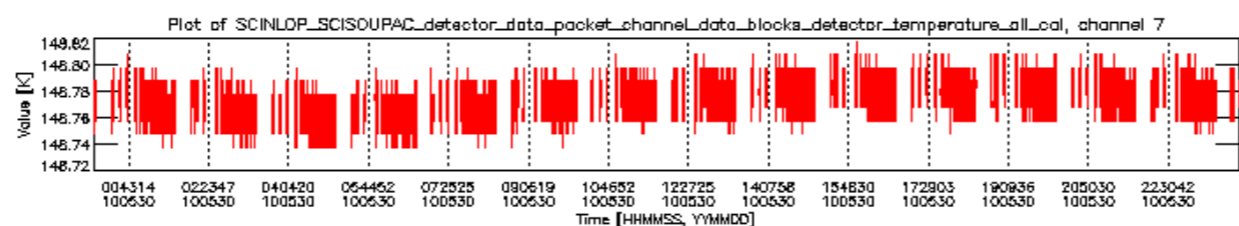
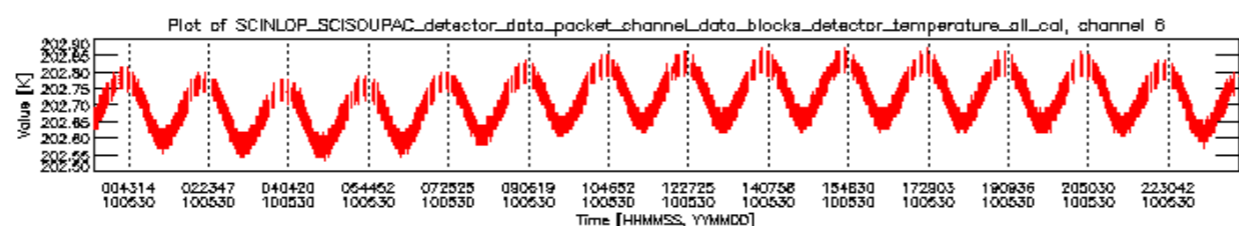
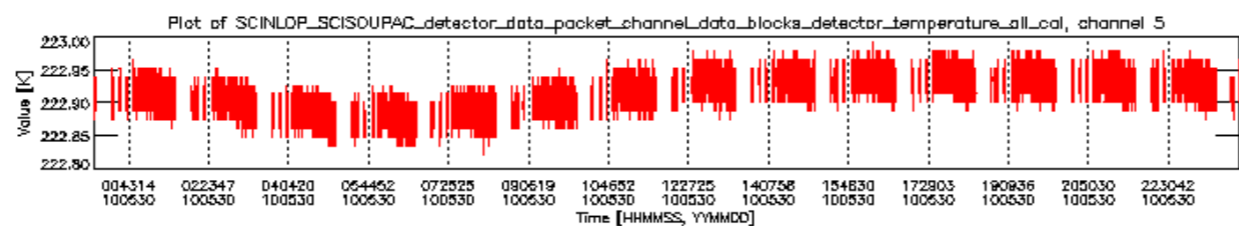
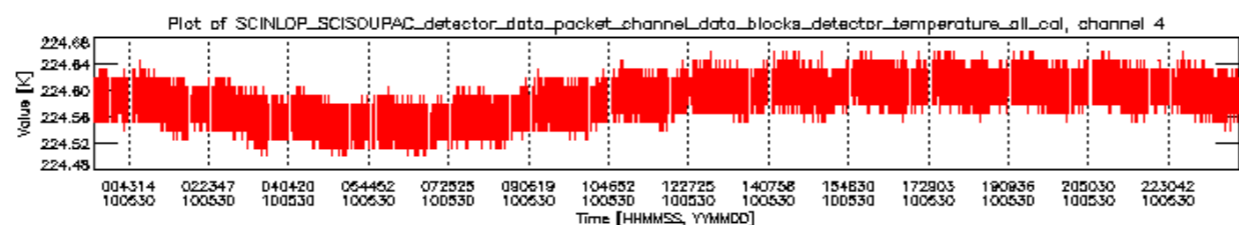
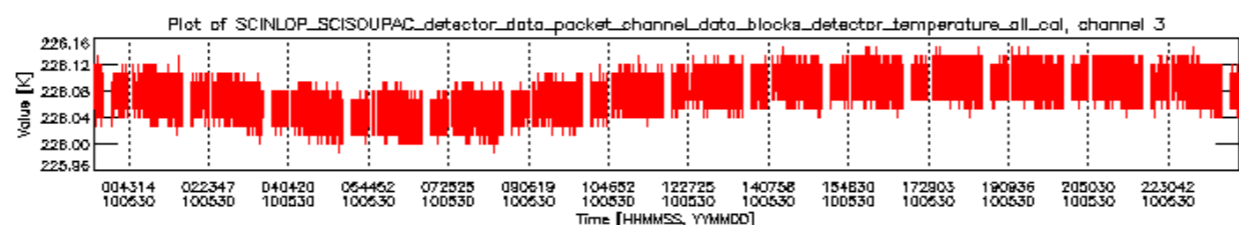
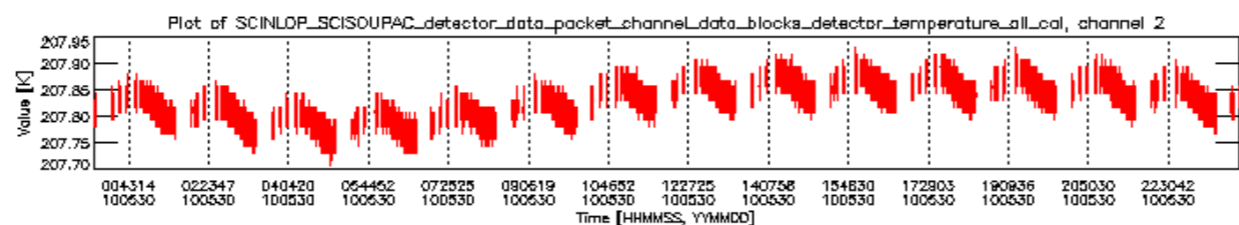
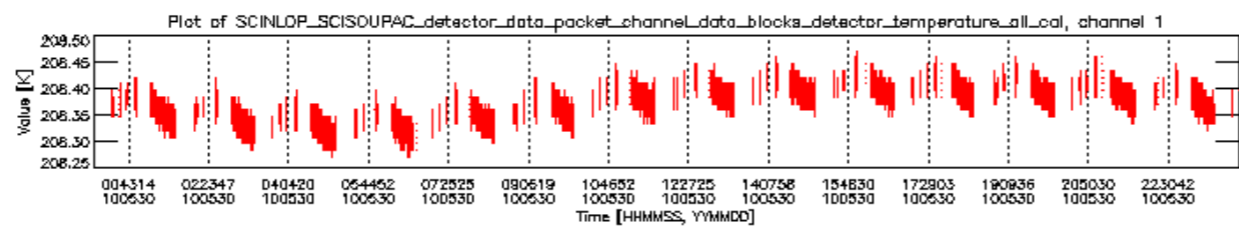


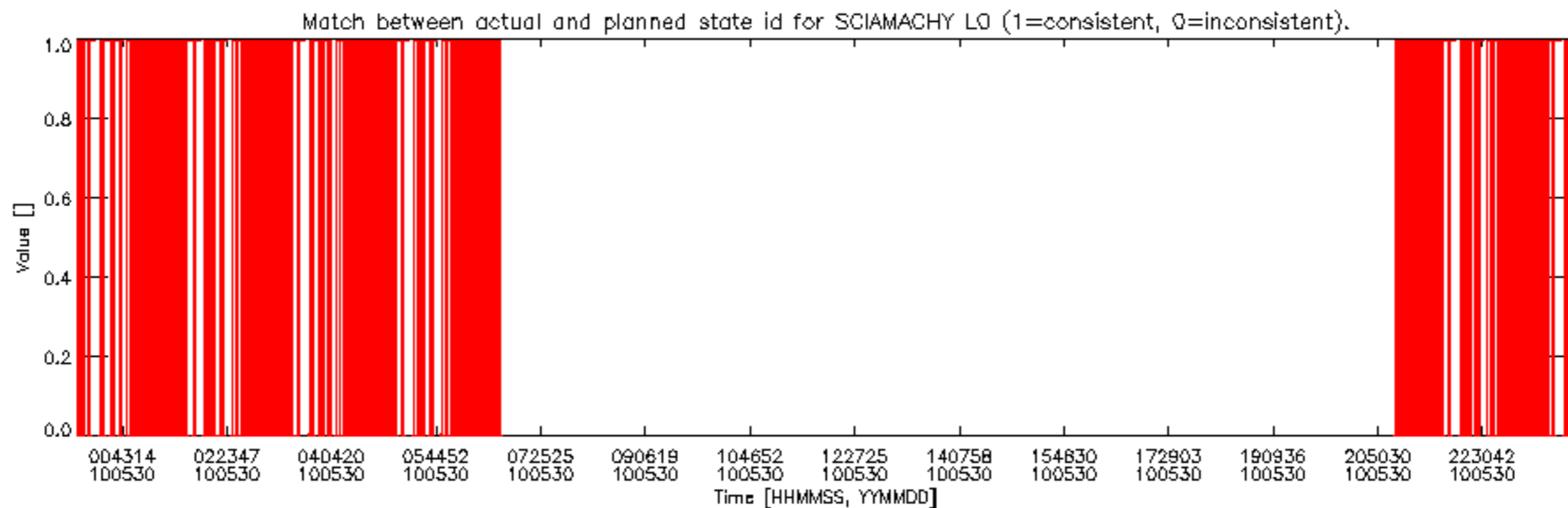
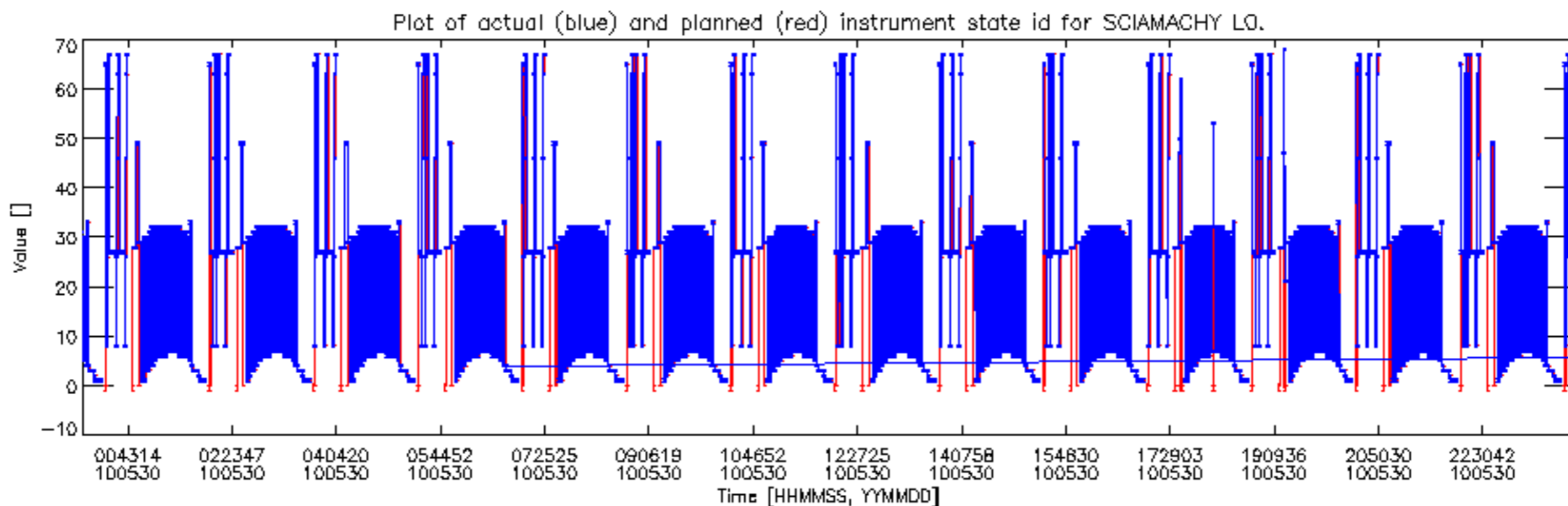












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.  
 Each row indicates an orbit. A light gray colour indicates the time span of 30MAY2010.  
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