

## 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	03JUN2009 04:13:42
Data source version	KSPT_L0/4303-N
Processing scope for products	30MAY2009 00:00:00 to 31MAY2009 00:00:00
Start time of first product within scope	29MAY2009 22:20:54
Stop time of last product within scope	31MAY2009 01:11:53
Total number of level 0 products	17
Number of level 0 products with errors	2

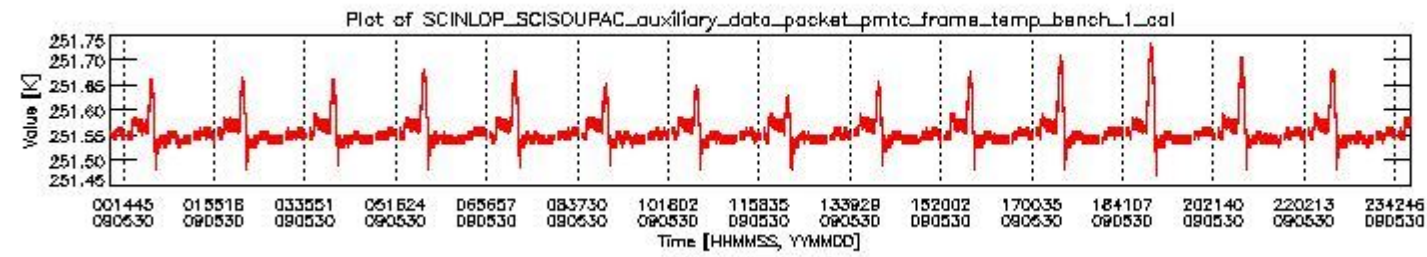
### 0.1.2 Summary per product

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

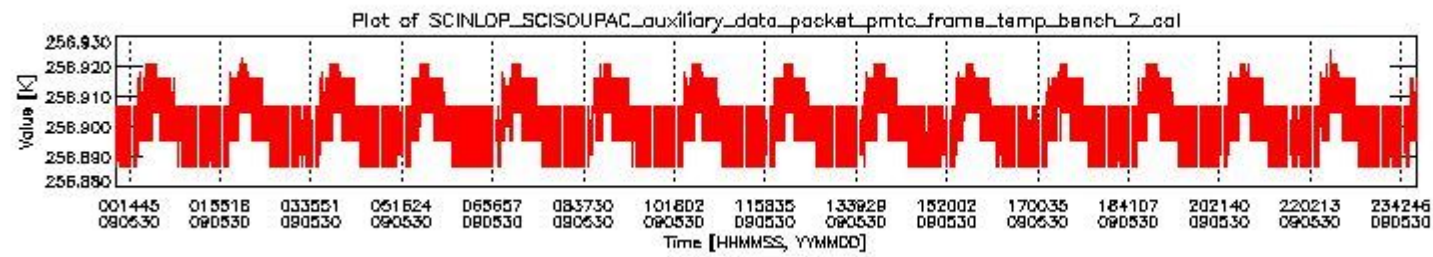
#	Product name	Start time	Stop time	Prod err	ISP err sign	ISP miss sign	ISP disc sign	rs sign
0	SCI_NL__OPNPDE20090529_222054_000061552079_00258_37887_9244.N1	29MAY2009 22:20:54	30MAY2009 00:03:29	0	0	0	0	0
1	SCI_NL__OPNPDE20090530_000245_000059162079_00259_37888_9245.N1	30MAY2009 00:02:45	30MAY2009 01:41:21	0	0	0	0	0
2	SCI_NL__OPNPDE20090530_014037_000047542079_00260_37889_9246.N1	30MAY2009 01:40:37	30MAY2009 02:59:51	0	0	0	0	0
3	SCI_NL__OPNPDE20090530_025843_000058302079_00261_37890_9247.N1	30MAY2009 02:58:43	30MAY2009 04:35:53	0	0	0	0	0
4	SCI_NL__OPNPDE20090530_043553_000060492079_00262_37891_9248.N1	30MAY2009 04:35:53	30MAY2009 06:16:41	0	0	0	0	0
5	SCI_NL__OPNPDK20090530_061641_000041012079_00263_37892_1672.N1	30MAY2009 06:16:41	30MAY2009 07:25:02	0	0	0	0	0
6	SCI_NL__OPNPDK20090530_072353_000061732079_00264_37893_1673.N1	30MAY2009 07:23:53	30MAY2009 09:06:46	0	0	0	0	0
7	SCI_NL__OPNPDK20090530_090538_000060362079_00265_37894_1674.N1	30MAY2009 09:05:38	30MAY2009 10:46:13	0	0	0	0	0
8	SCI_NL__OPNPDK20090530_104505_000059802079_00266_37895_1675.N1	30MAY2009 10:45:05	30MAY2009 12:24:45	0	0	0	0	0
9	SCI_NL__OPNPDK20090530_122349_000060922079_00267_37896_1676.N1	30MAY2009 12:23:49	30MAY2009 14:05:20	1	0	1	0	0
10	SCI_NL__OPNPDK20090530_140412_000059242079_00268_37897_1677.N1	30MAY2009 14:04:12	30MAY2009 15:42:56	1	1	0	0	0
11	SCI_NL__OPNPDK20090530_154147_000058582079_00269_37898_1678.N1	30MAY2009 15:41:47	30MAY2009 17:19:25	0	0	0	0	0
12	SCI_NL__OPNPDK20090530_171721_000061042079_00270_37899_1679.N1	30MAY2009 17:17:21	30MAY2009 18:59:05	0	0	0	0	0
13	SCI_NL__OPNPDK20090530_185701_000060212079_00271_37900_1680.N1	30MAY2009 18:57:01	30MAY2009 20:37:21	0	0	0	0	0
14	SCI_NL__OPNPDE20090530_203613_000044252079_00272_37901_9249.N1	30MAY2009 20:36:13	30MAY2009 21:49:58	0	0	0	0	0
15	SCI_NL__OPNPDE20090530_214830_000061992079_00272_37901_9250.N1	30MAY2009 21:48:30	30MAY2009 23:31:49	0	0	0	0	0
16	SCI_NL__OPNPDE20090530_233105_000060482079_00273_37902_9251.N1	30MAY2009 23:31:05	31MAY2009 01:11:53	0	0	0	0	0

## 0.2 Product Quality Indicators

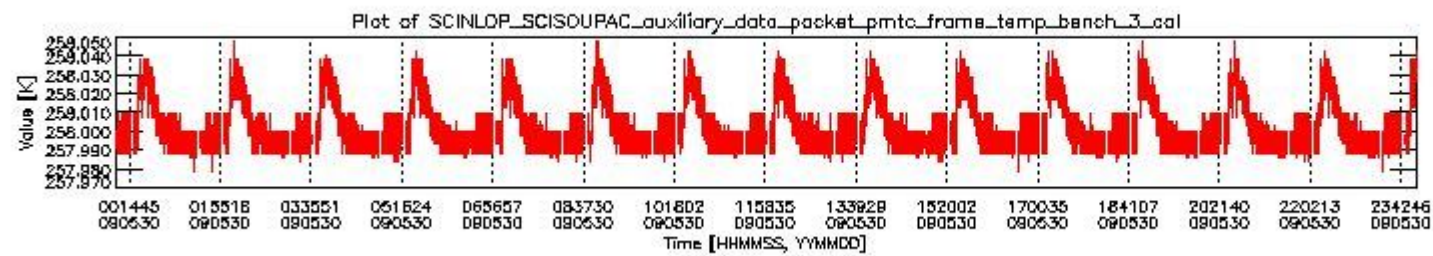
This section shows information about product quality, currently temperatures.



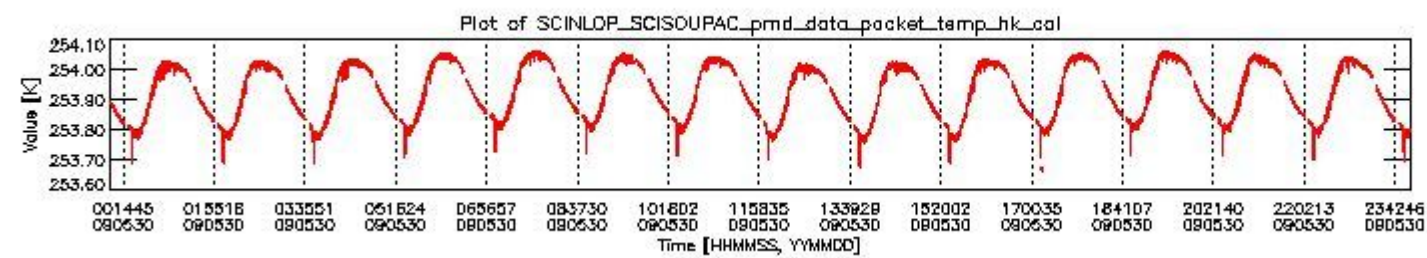
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090530\_0.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090530\_1.PNG

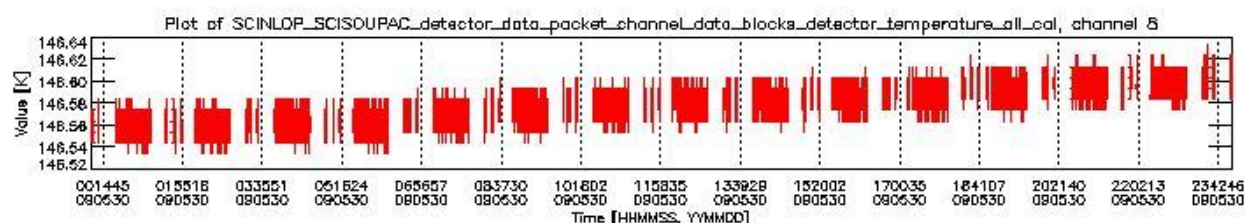
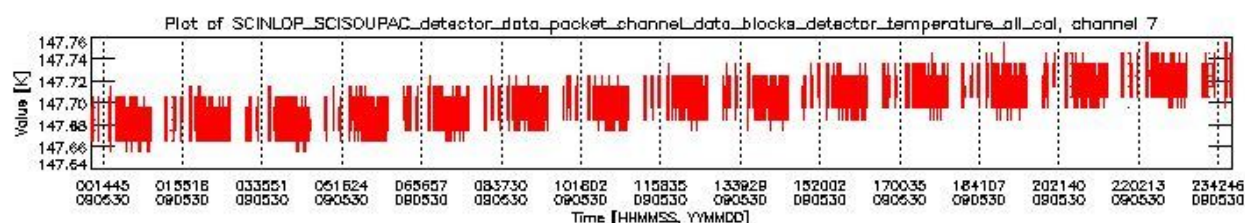
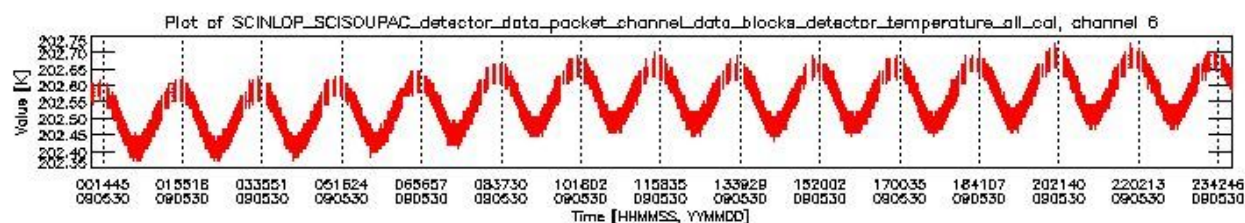
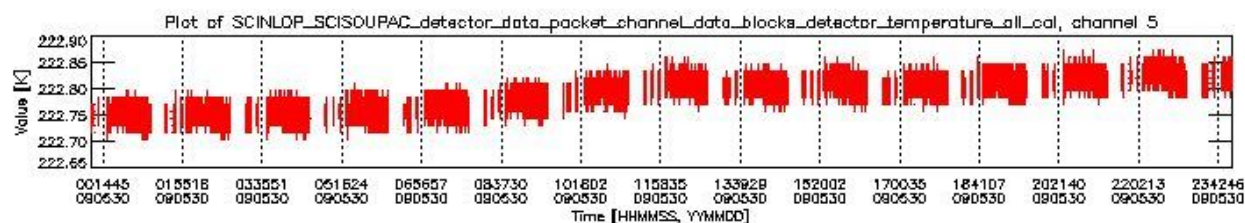
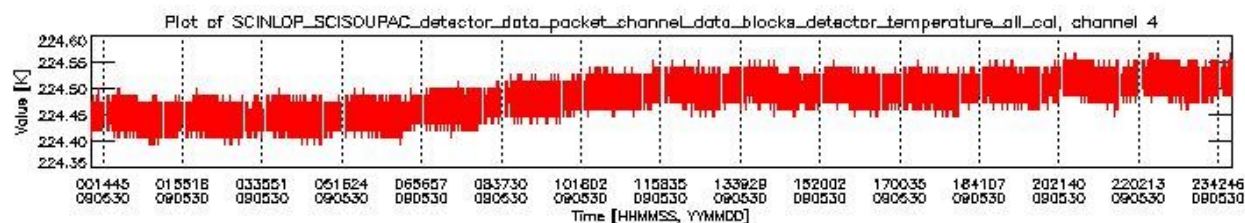
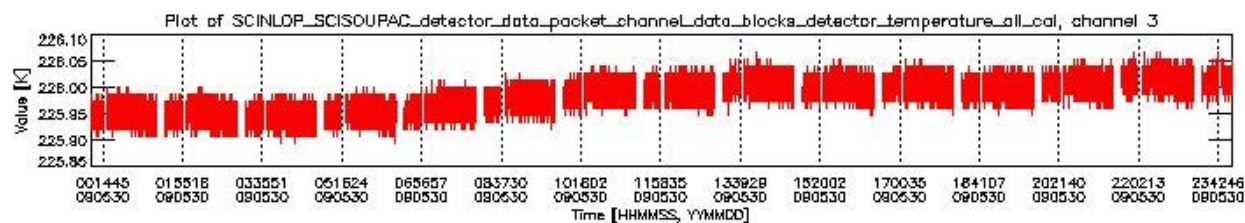
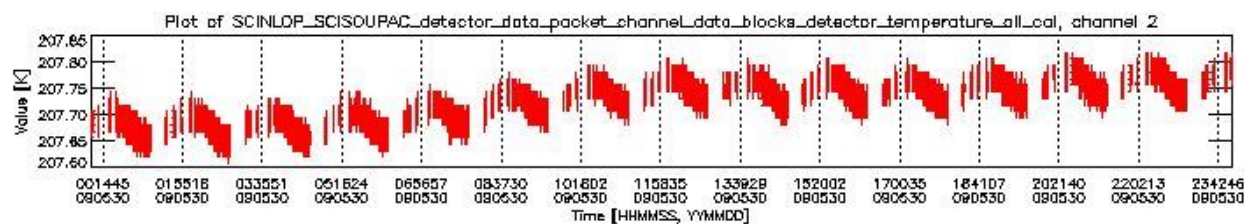
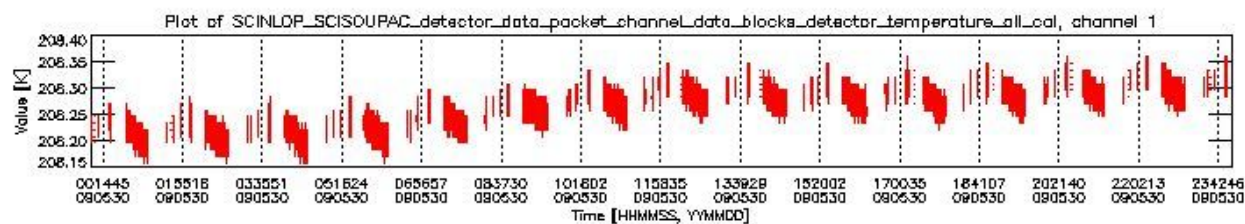


sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090530\_2.PNG



sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090530\_3.PNG



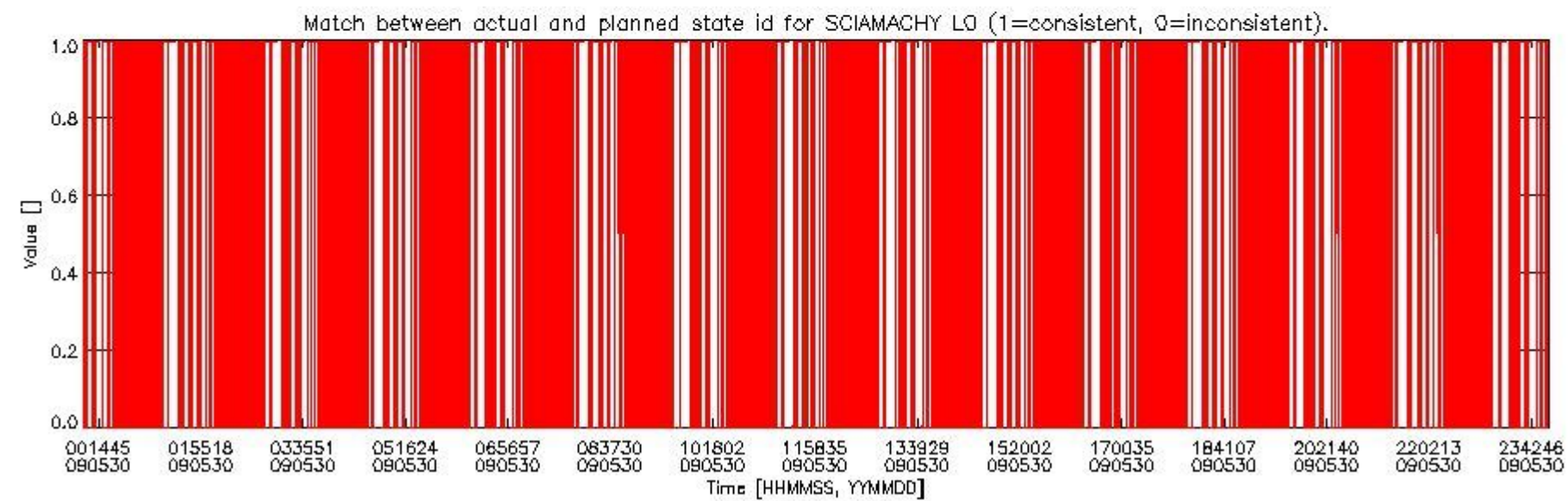
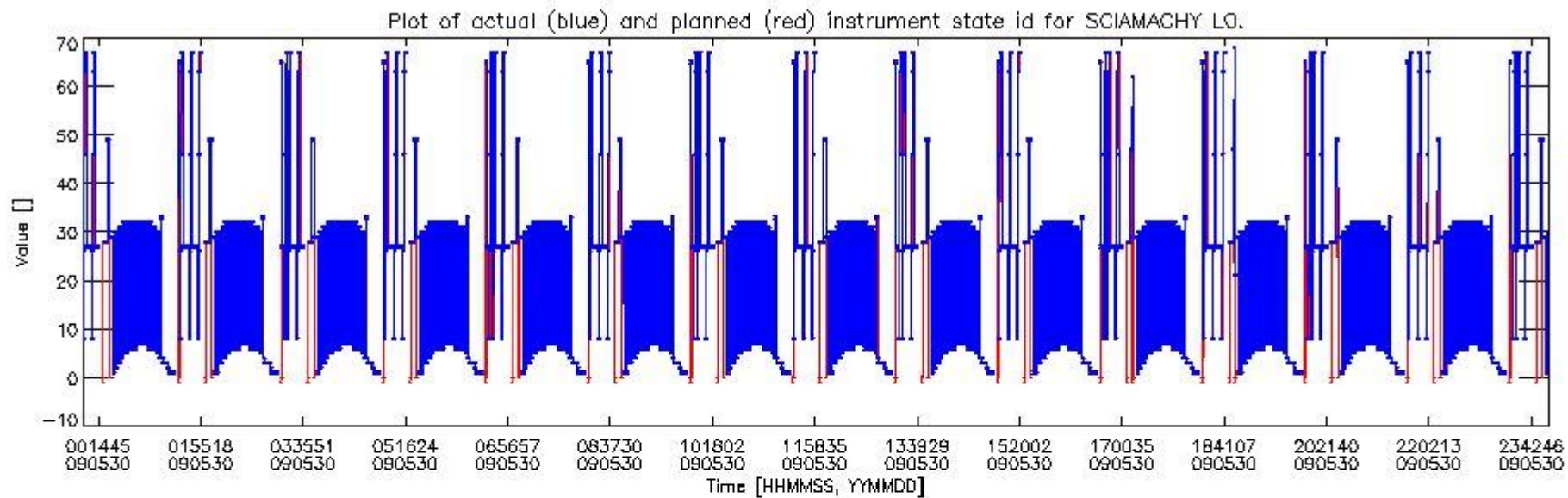


### 0.3 State monitoring

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: **40672**

#	Actual time	Actual value	Planned time	Planned value
0	30MAY2009 00:00:01.211782	26	30MAY2009 00:00:01.211782	8
1	30MAY2009 00:00:01.836804	26	30MAY2009 00:00:01.836804	8
2	30MAY2009 00:00:02.336781	26	30MAY2009 00:00:02.336781	8
3	30MAY2009 00:00:02.836798	26	30MAY2009 00:00:02.836798	8
4	30MAY2009 00:00:03.336775	26	30MAY2009 00:00:03.336775	8
5	30MAY2009 00:00:03.836793	26	30MAY2009 00:00:03.836793	8
6	30MAY2009 00:00:04.336810	26	30MAY2009 00:00:04.336810	8
7	30MAY2009 00:00:04.836787	26	30MAY2009 00:00:04.836787	8
8	30MAY2009 00:00:05.336805	26	30MAY2009 00:00:05.336805	8
9	30MAY2009 00:00:05.836782	26	30MAY2009 00:00:05.836782	8
10	30MAY2009 00:00:06.211795	26	30MAY2009 00:00:06.211795	8
11	30MAY2009 00:00:06.336799	26	30MAY2009 00:00:06.336799	8
12	30MAY2009 00:00:06.836776	26	30MAY2009 00:00:06.836776	8
13	30MAY2009 00:00:07.336794	26	30MAY2009 00:00:07.336794	8
14	30MAY2009 00:00:07.836811	26	30MAY2009 00:00:07.836811	8
15	30MAY2009 00:00:08.336788	26	30MAY2009 00:00:08.336788	8
16	30MAY2009 00:00:08.836806	26	30MAY2009 00:00:08.836806	8
17	30MAY2009 00:00:09.336783	26	30MAY2009 00:00:09.336783	8
18	30MAY2009 00:00:09.836800	26	30MAY2009 00:00:09.836800	8
19	30MAY2009 00:00:34.766498	46	30MAY2009 00:00:34.766498	26
	...	...	...	...



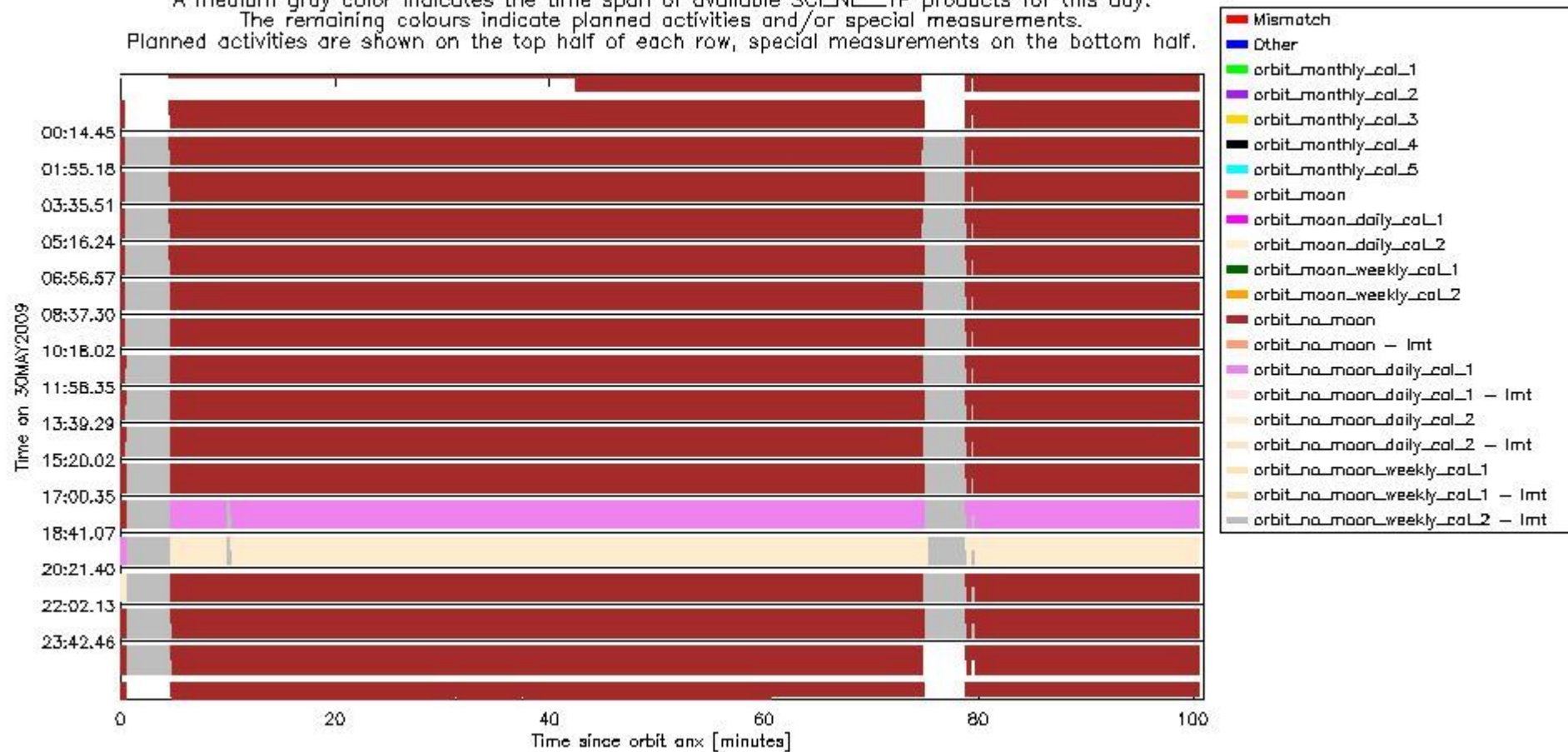
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090530\_5.PNG

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 30MAY2009.  
 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\_20090530\_6.PNG

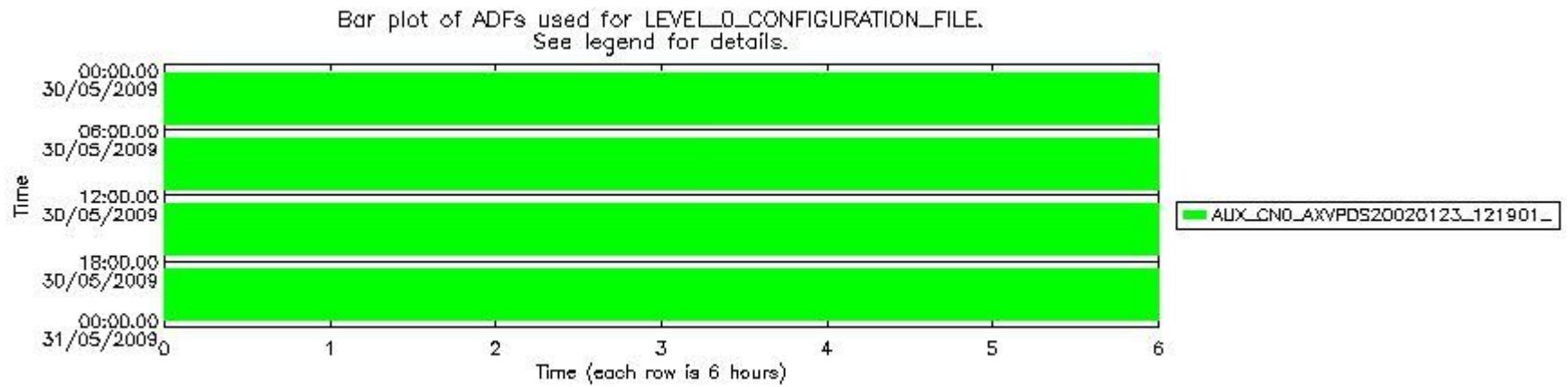
## 0.4 ADF monitoring

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

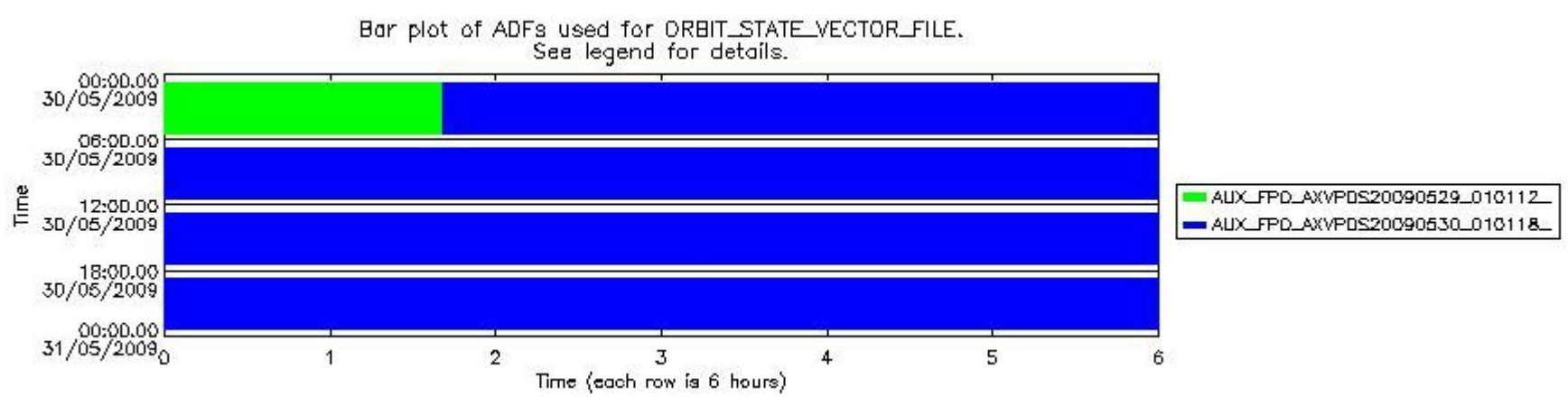
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

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

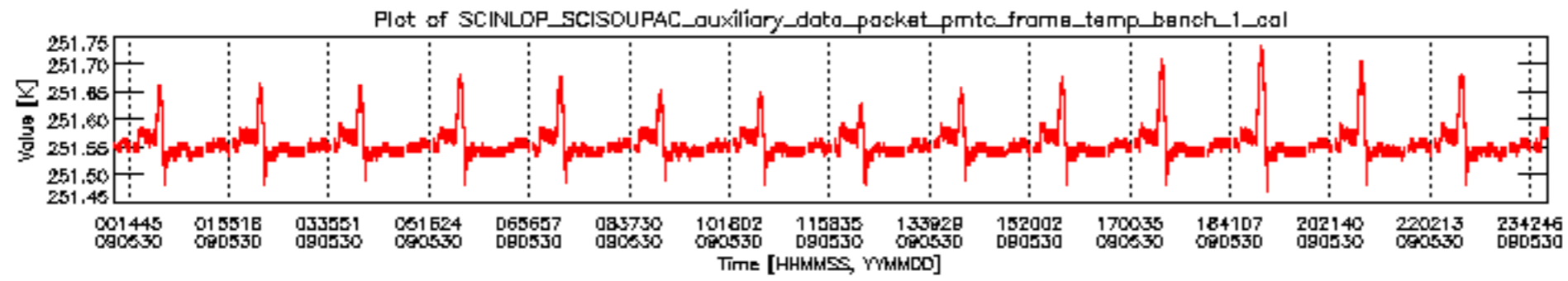
Number	ADF
	<b>CN0 (LEVEL_0_CONFIGURATION_FILE)</b>
0	AUX_CN0_AXVPDS20020123_121901_20020101_000000_20200101_000000
	<b>FPO (ORBIT_STATE_VECTOR_FILE)</b>
1	<b>AUX_FPO_AXVPDS20090529_010112_20090528_194424_20090607_211038</b>
2	<b>AUX_FPO_AXVPDS20090530_010118_20090529_191247_20090608_203901</b>



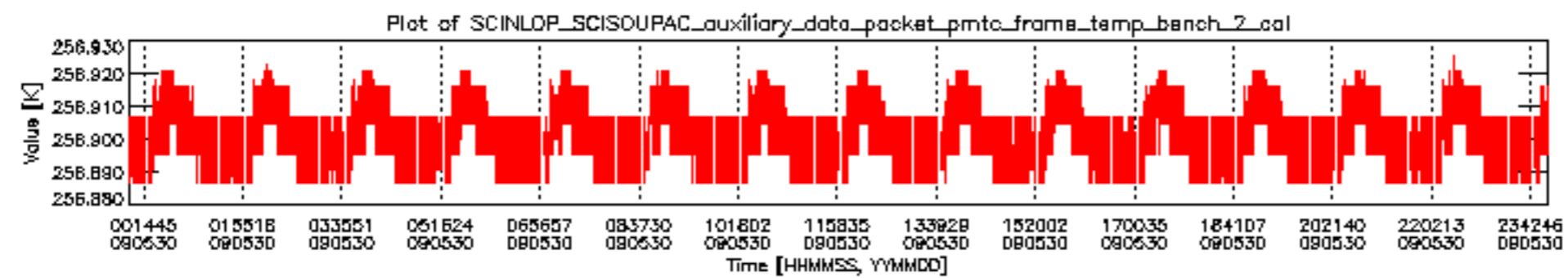
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090530\_7.PNG

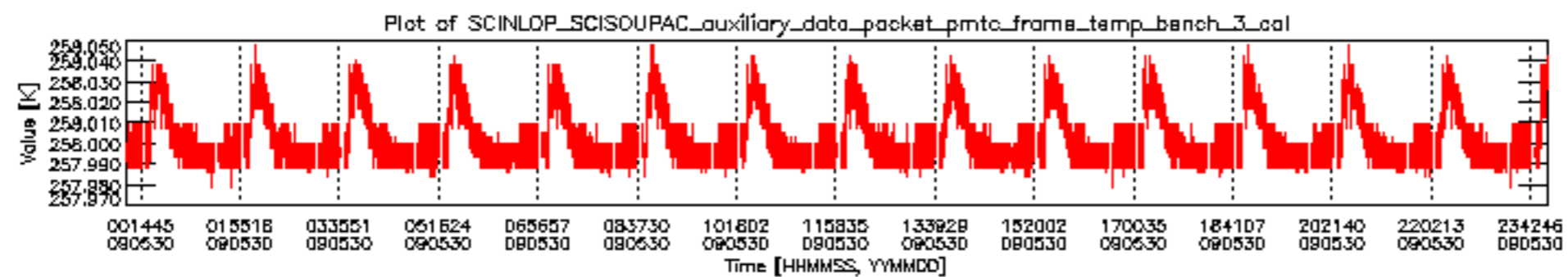


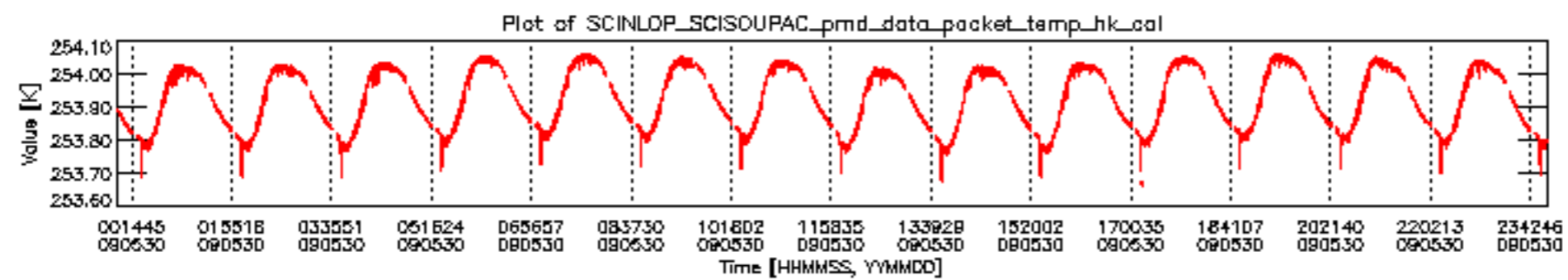
sciamachy\_daily\_report\_level0\_KSPT\_L0\_4303\_N\_20090530\_8.PNG

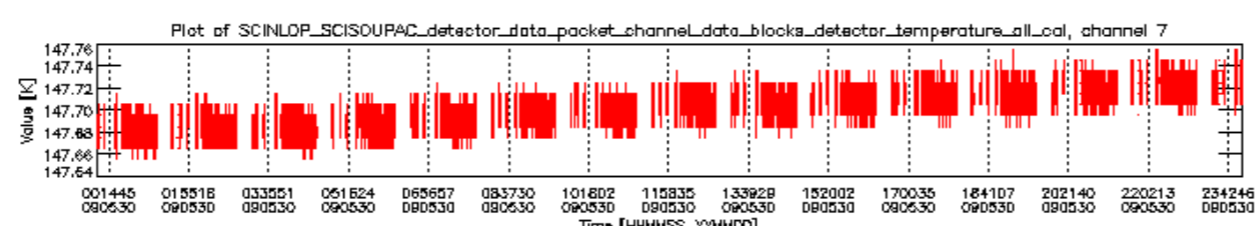
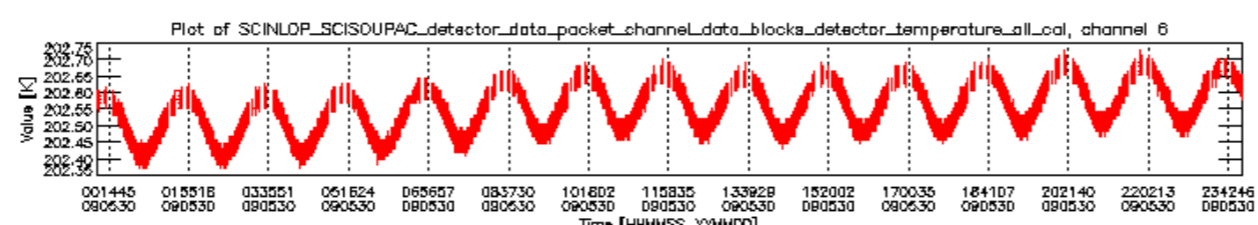
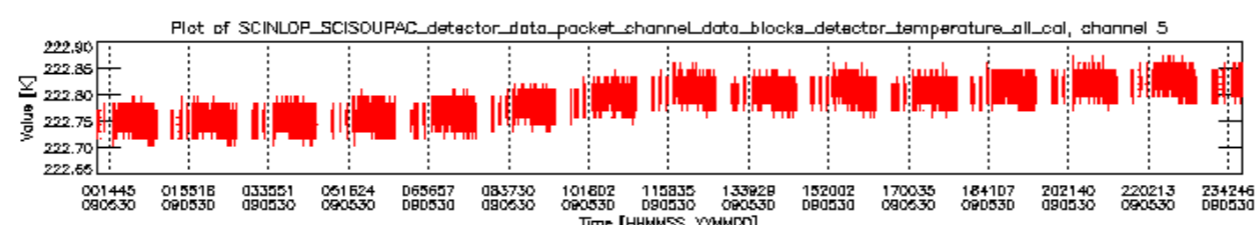
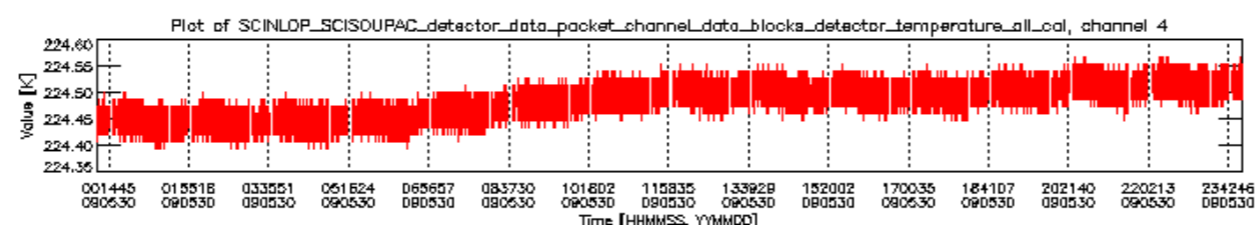
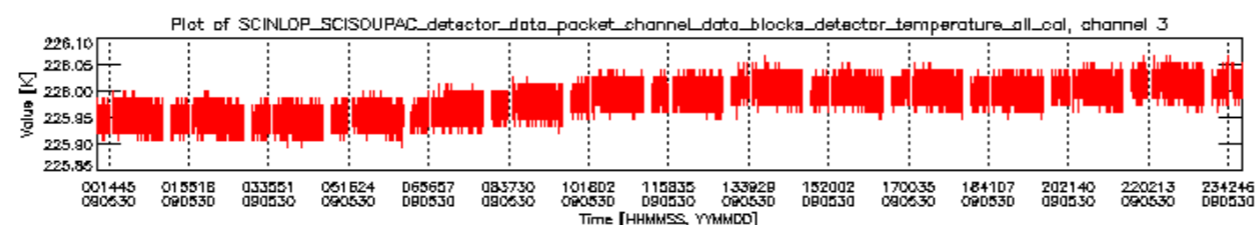
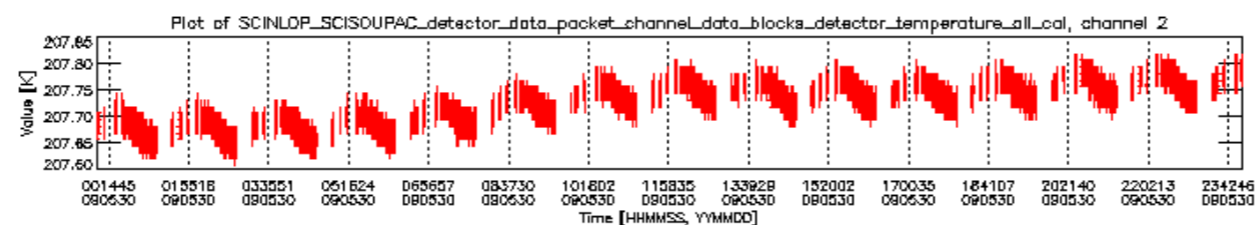
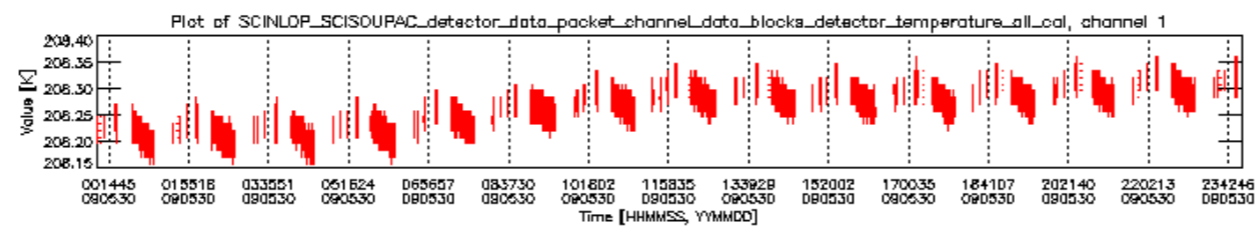




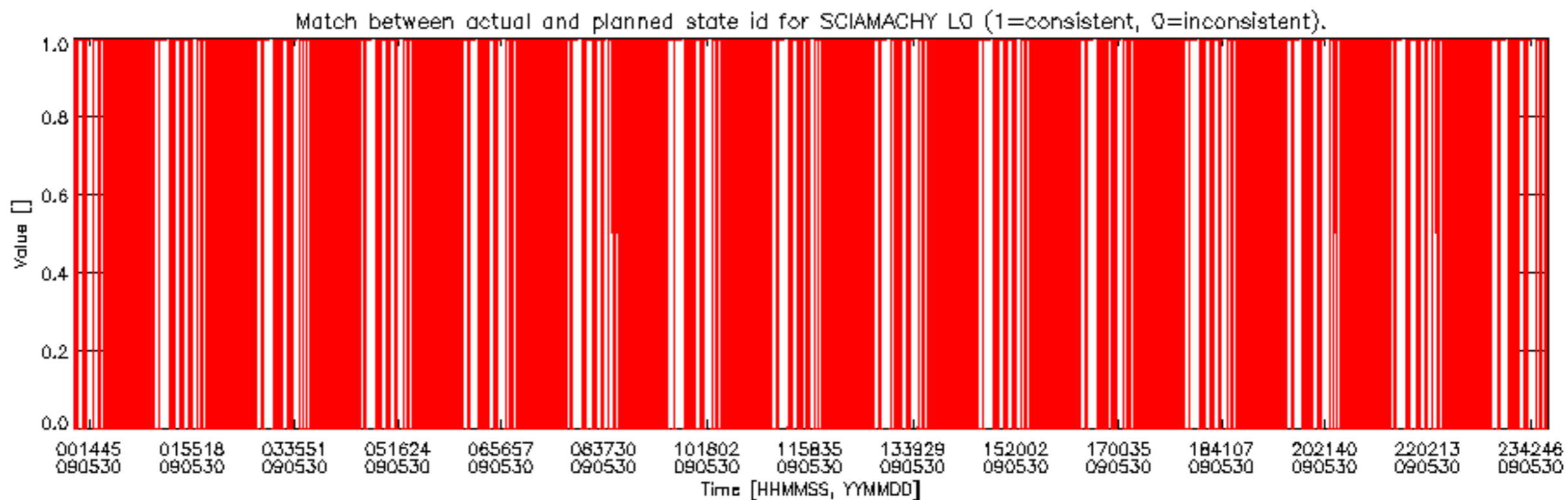
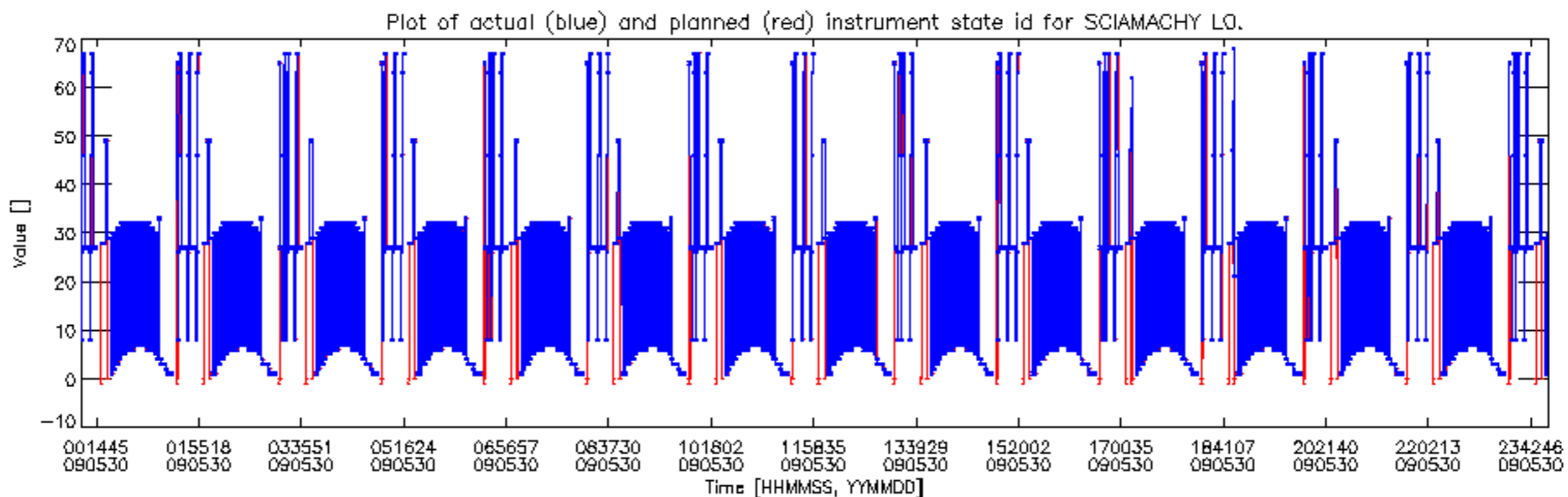












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