

1. SCIAMACHY Daily Report for level 1 products

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1.1 General Info

This report contains a daily analysis on parameters extracted from SCIAMACHY level 1 data (The SCI_NL__1P product).

1.1.1 Report summary

The table below shows general characteristics of the data that are included into this report.

Item	Value
Report version	1.3 (29-05-2006)
Time of report generation	03MAY2007 13:44:14
Data source version	SCIA/6.02-N
Processing scope for products	30APR2007 00:00:00 to 01MAY2007 00:00:00
Start time of first product within scope	29APR2007 22:39:02
Stop time of last product within scope	30APR2007 00:21:56
Total number of level 1 products	1
Number of level 1 products with errors	0

1.1.2 Summary per product

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

#	Product name	Start time	Stop time	Prod err	#nadir	#limb	#occ	#mon	#nopro	#comp_dark	#incomp_dark
0	SCI_NL__1PNPDE20070429_223902_000061742057_00387_26994_2209.N1	29APR2007 22:39:02	30APR2007 00:21:56	0	32	50	1	1	2	14	0

1.2 Product Quality Indicators

This section shows information about product quality, in particular the quality of retrieved species.

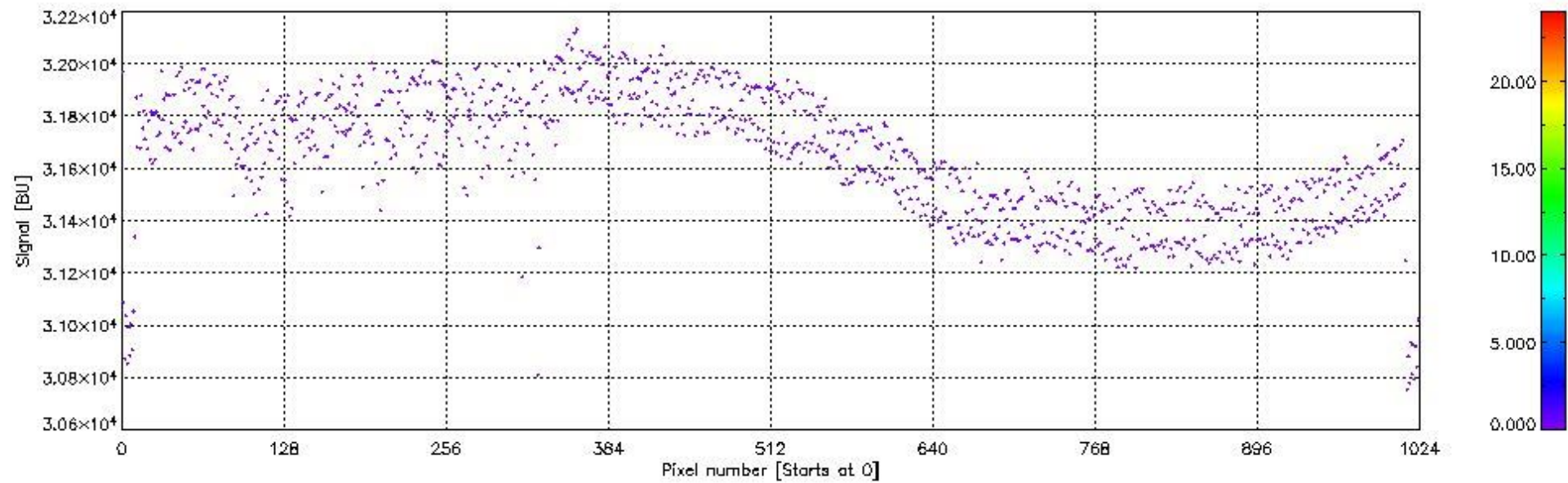
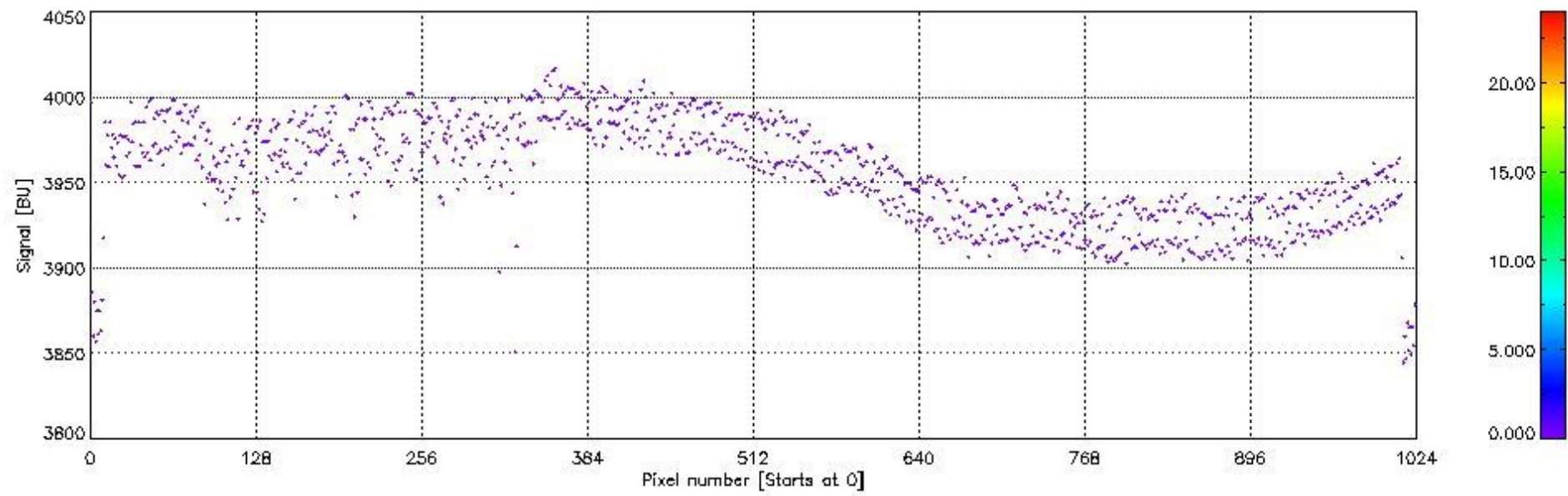
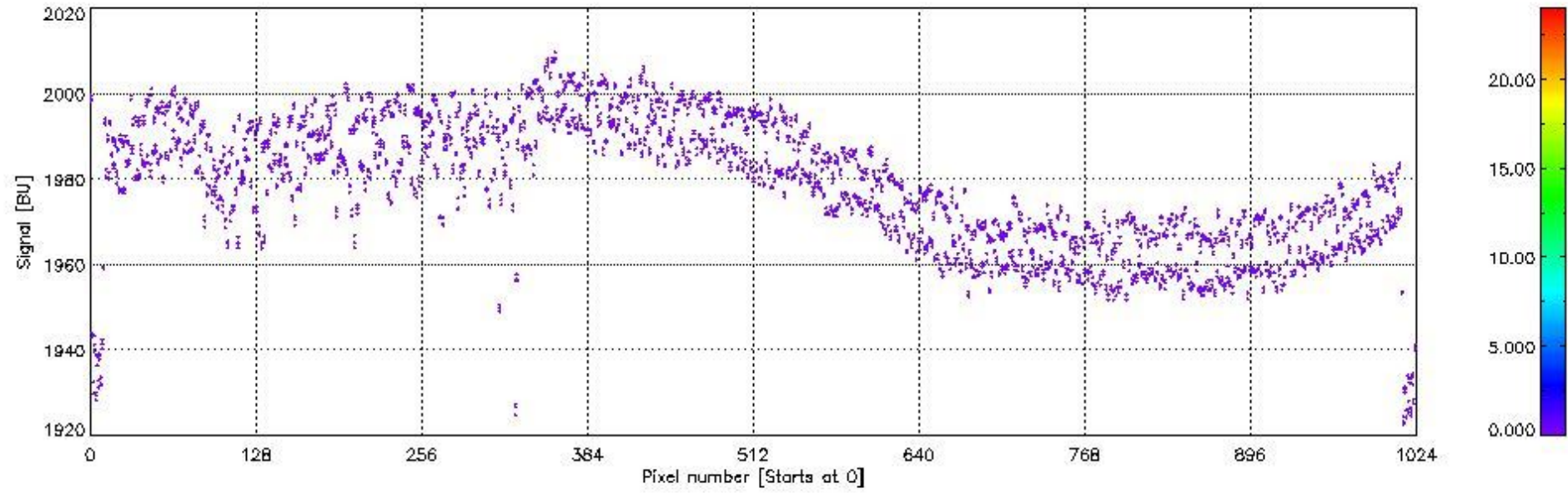
The following data items are currently included into this section:

1. Dark measurements (if available)
2. New leakage current parameters (if available)
3. New spectral calibration parameters (if available)
4. New sun reference spectrum (if available)
5. New PPG/Etalon parameters (if available)

1.2.1 Dark measurements overview

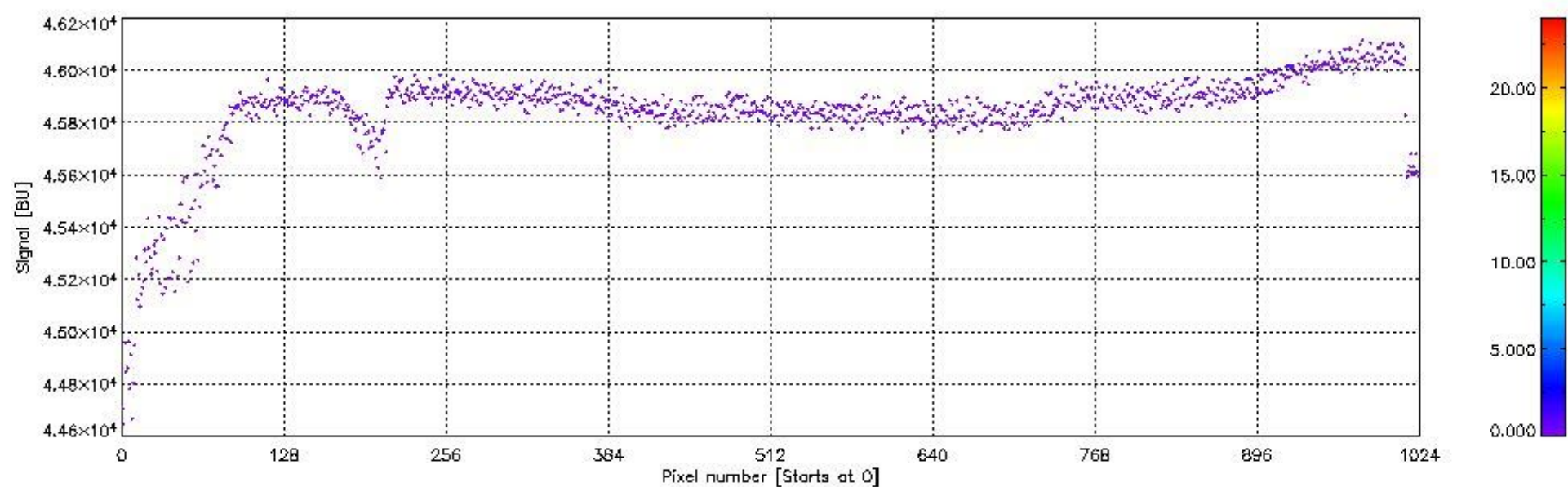
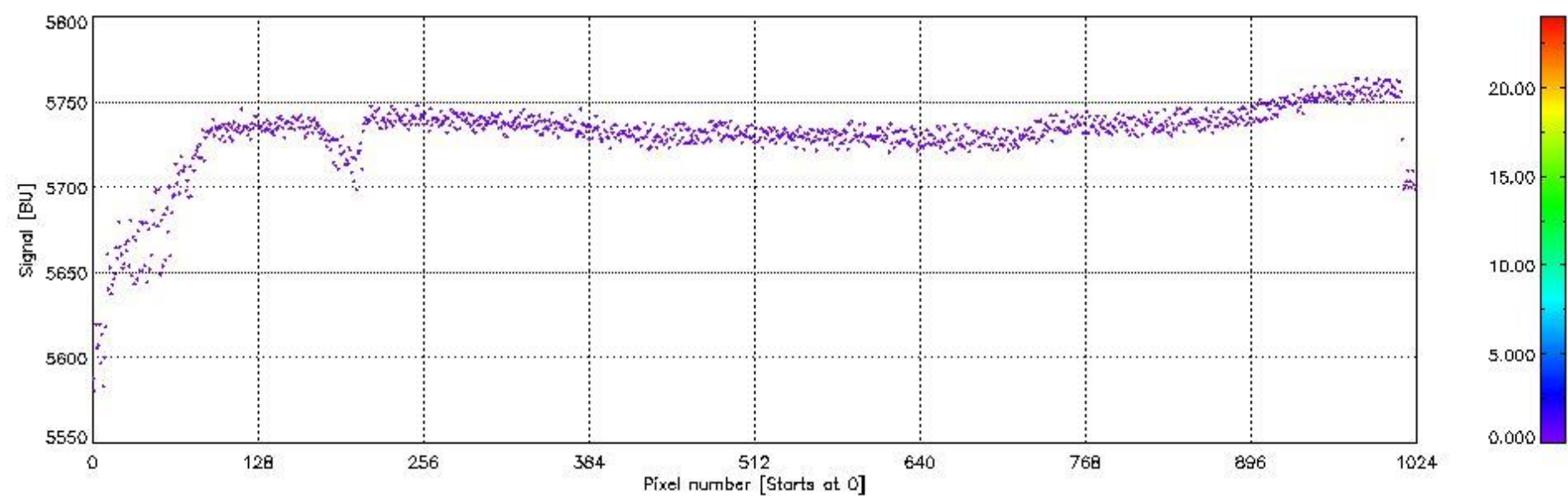
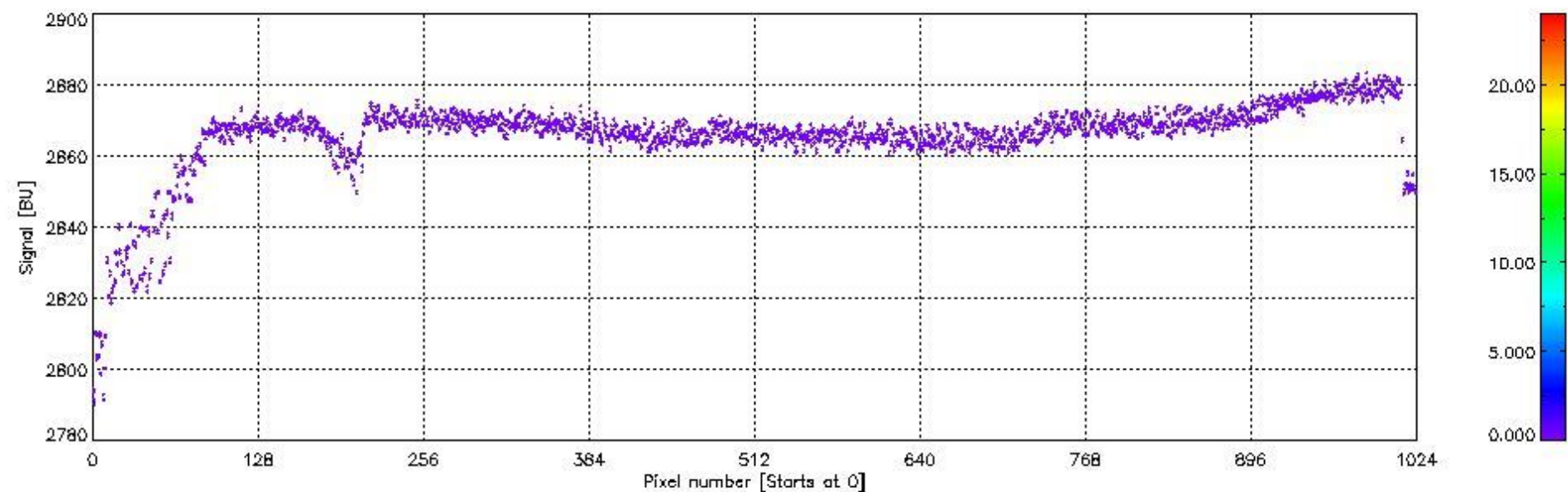
This section lists properties of the dark measurements performed within the processing scope.

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 1 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



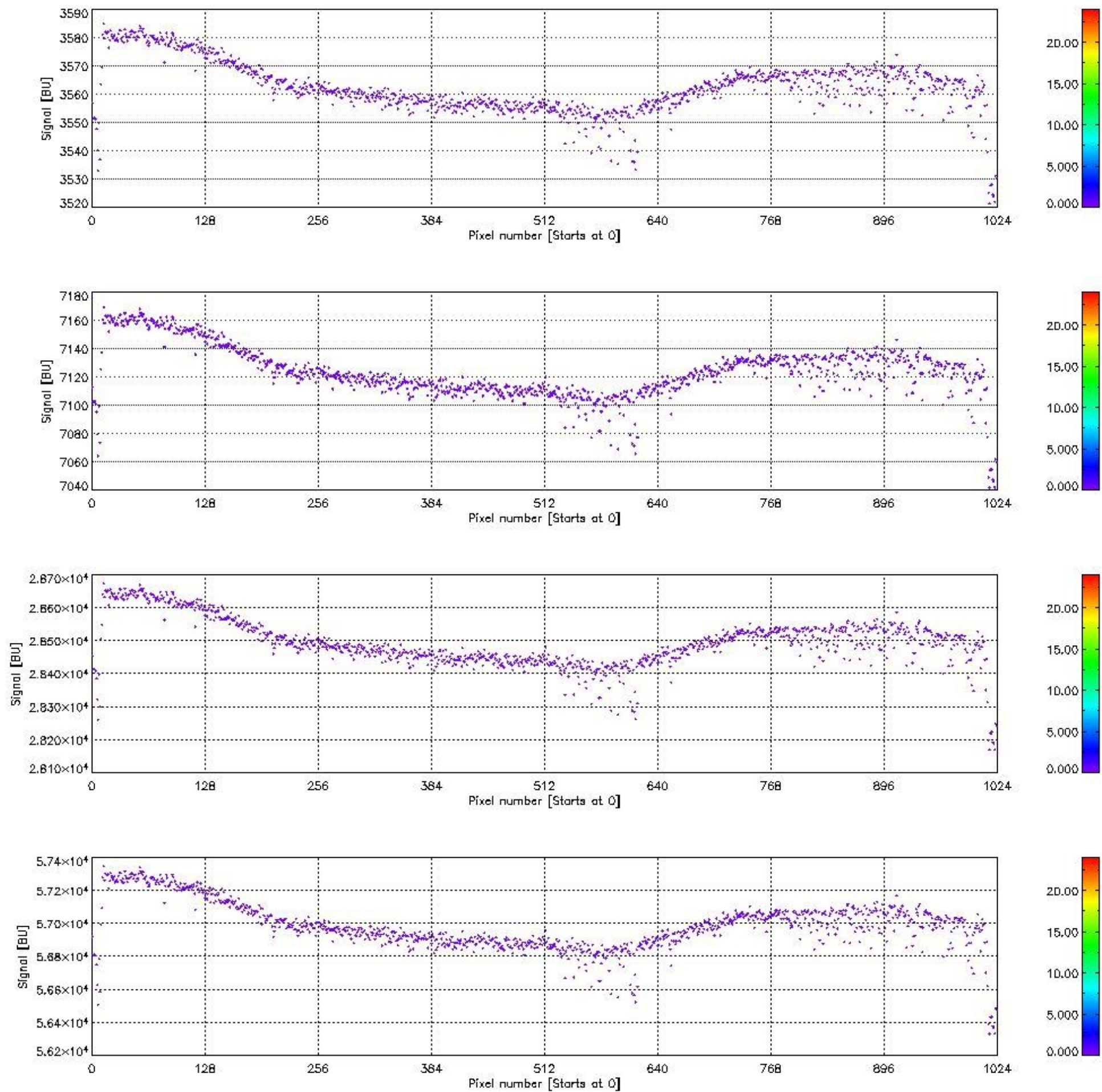
sciamachy_daily_report_level1__SCIA_6_02_N_20070430_0.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 2 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



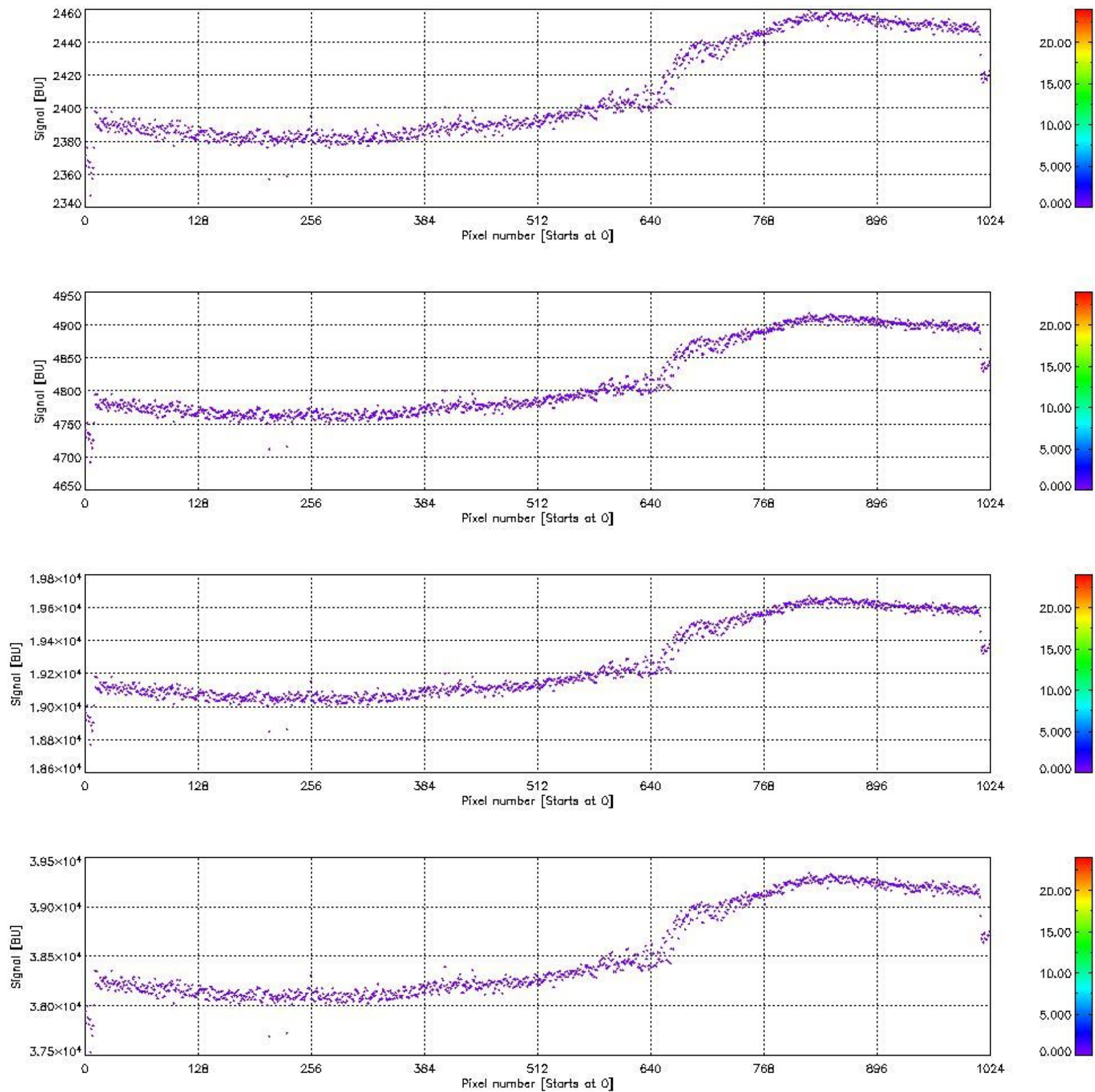
sciamachy_daily_report_level1__SCIA_6_02_N_20070430_1.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 3 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



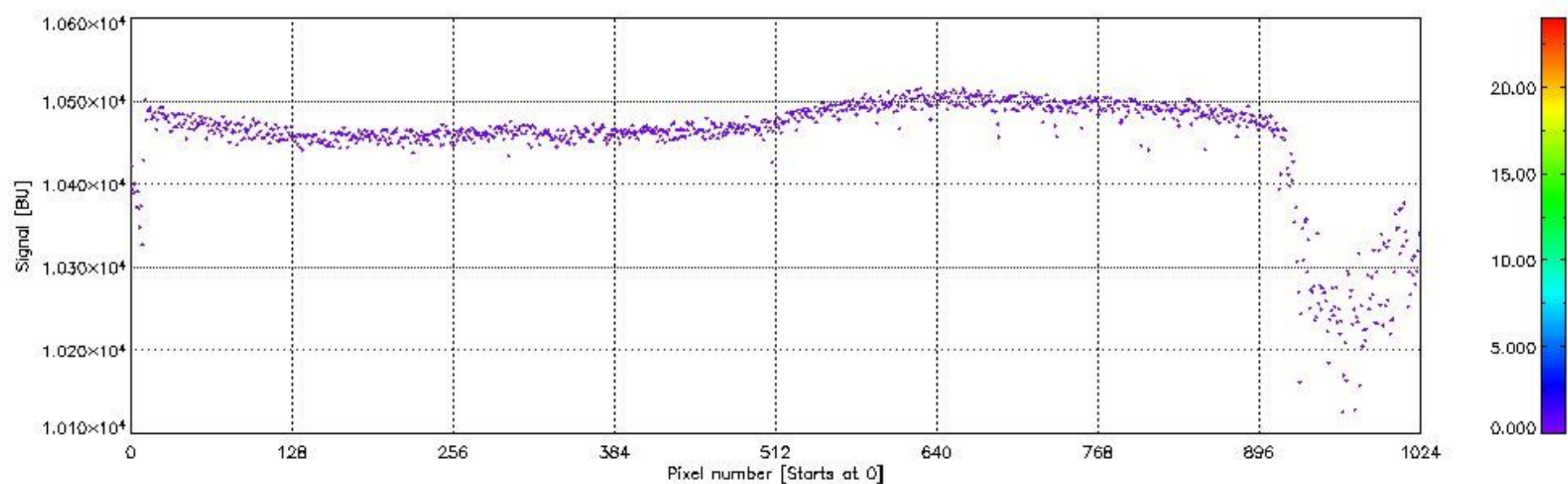
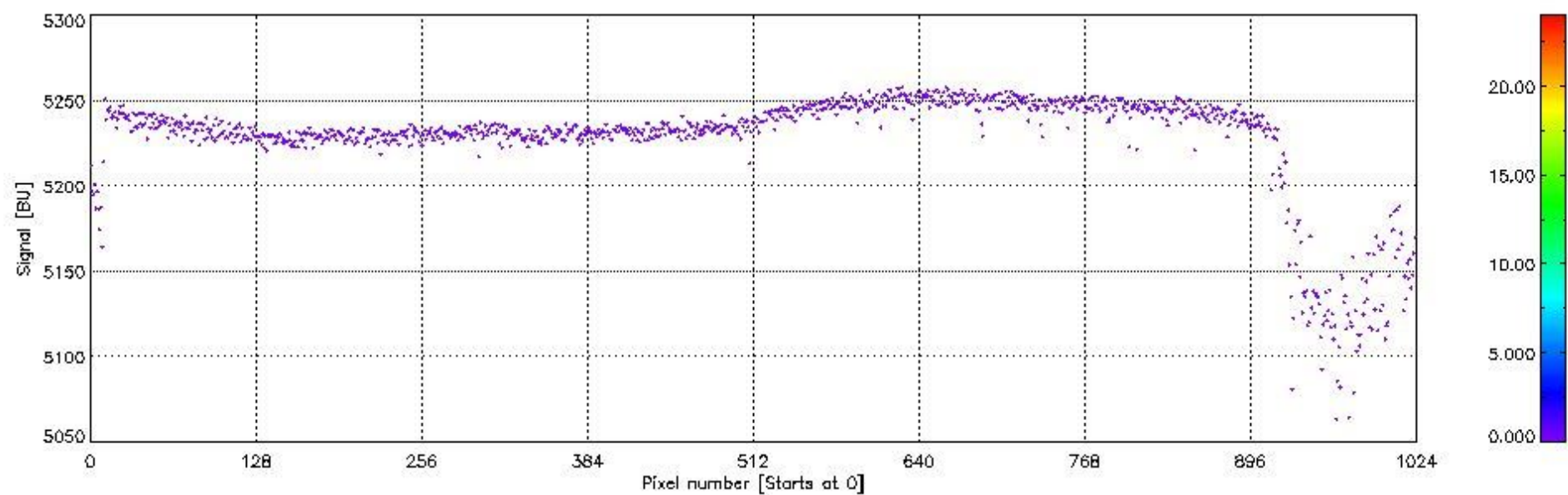
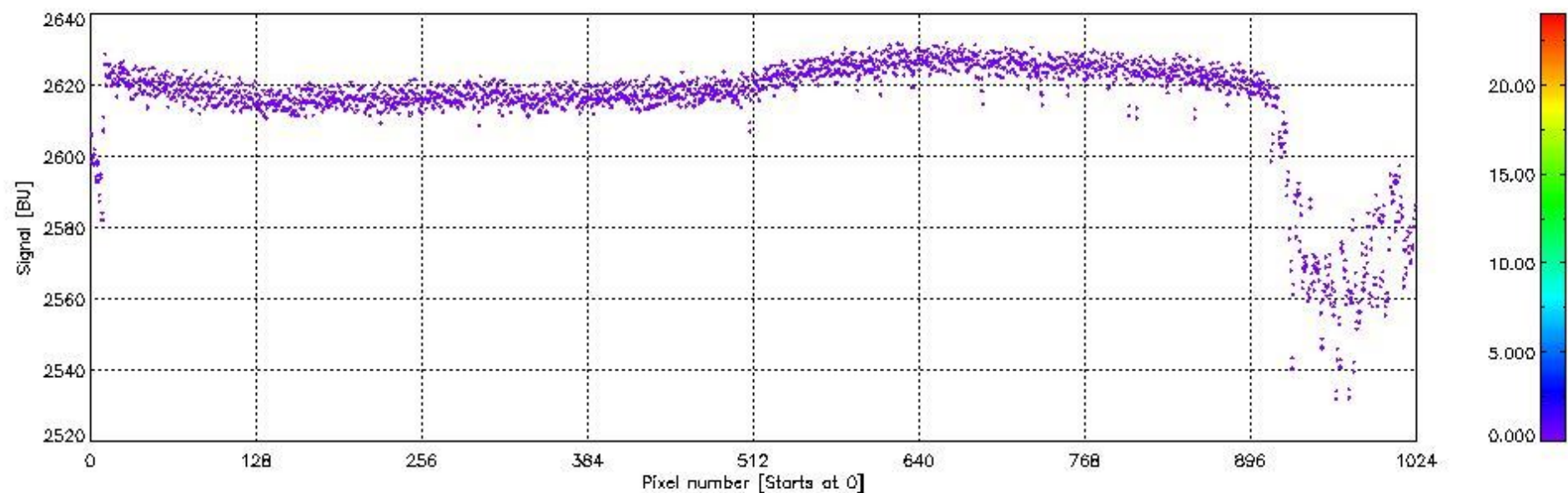
sciamachy_daily_report_level1__SCIA_6_02_N_20070430_2.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 4 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



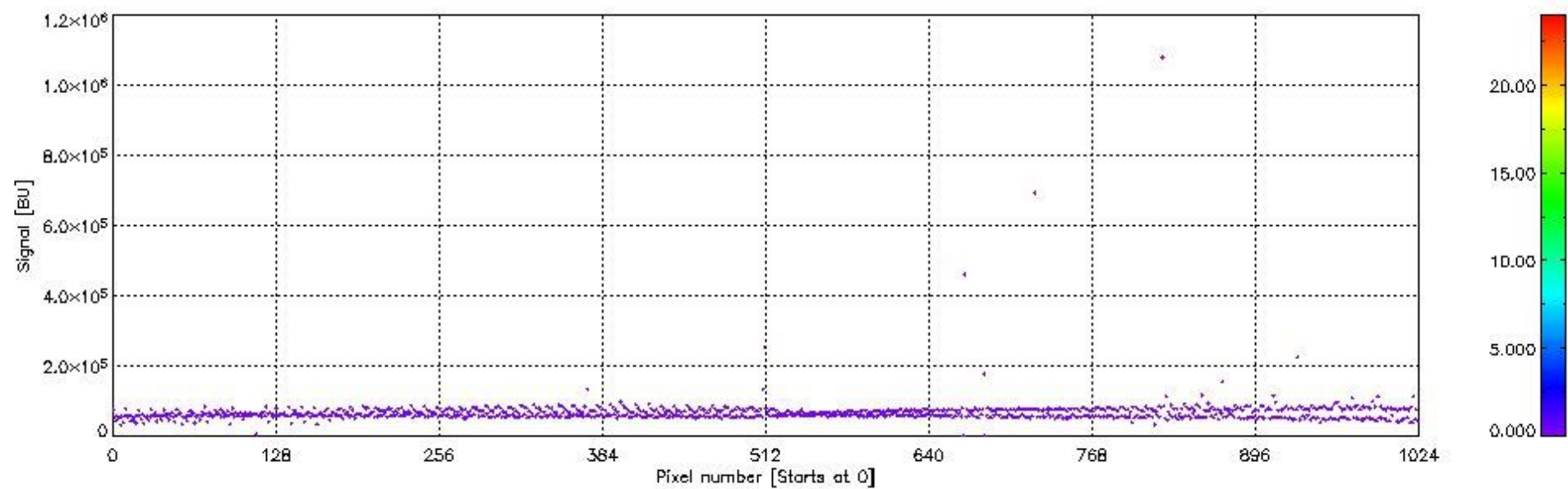
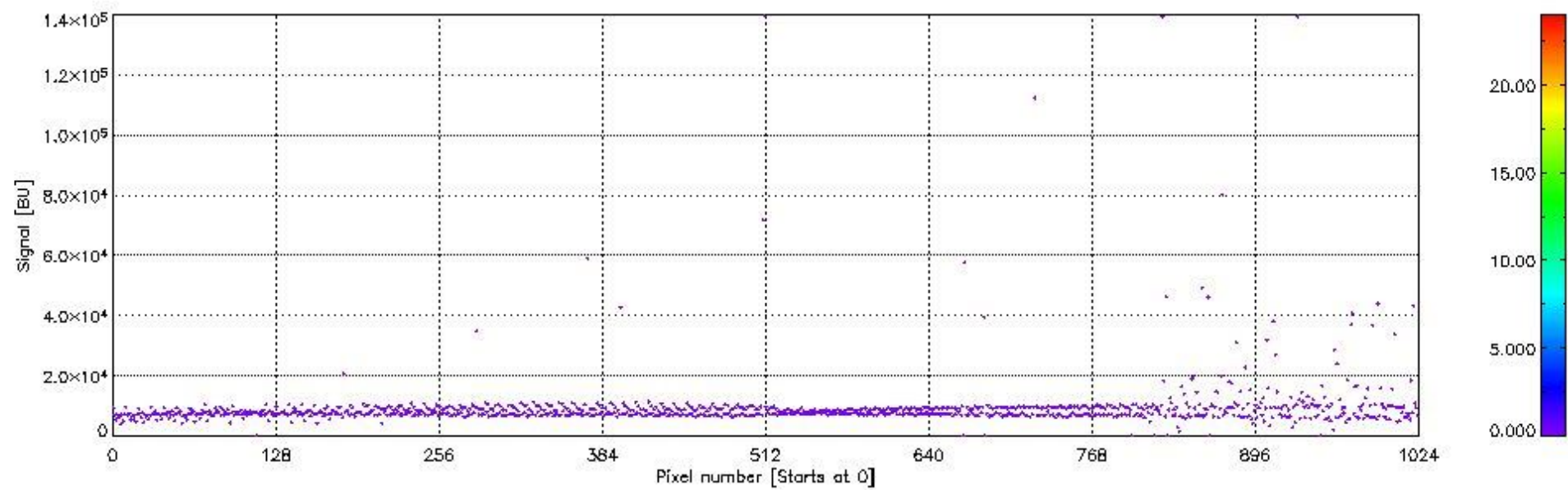
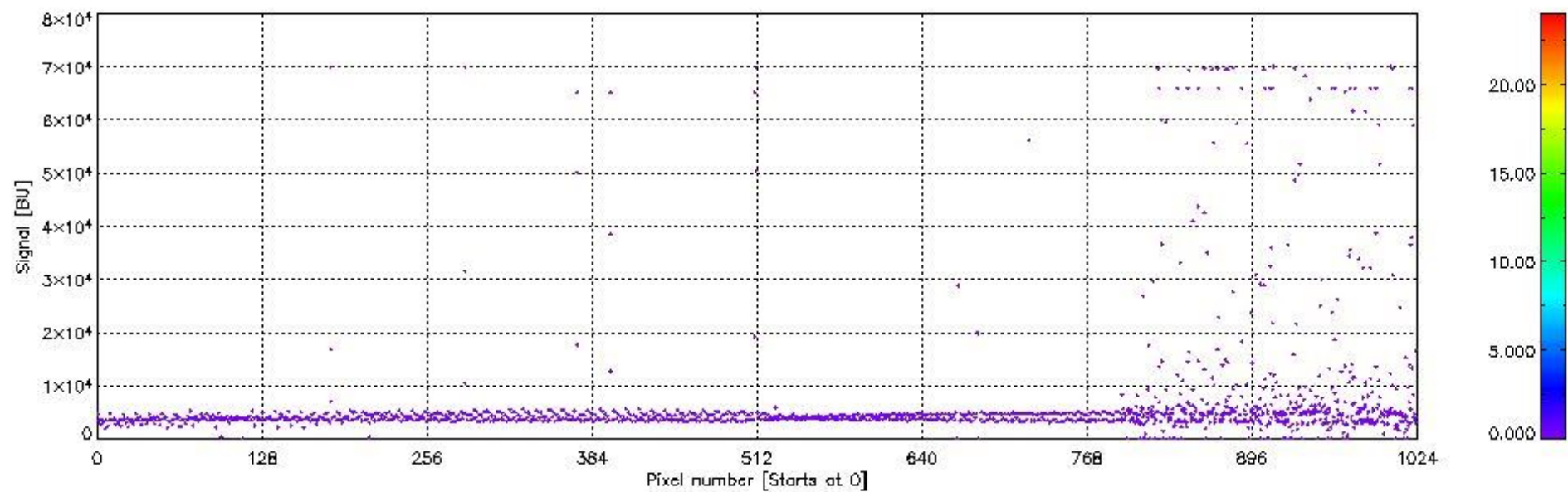
sciamachy_daily_report_level1__SCIA_6_02_N_20070430_3.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 5 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



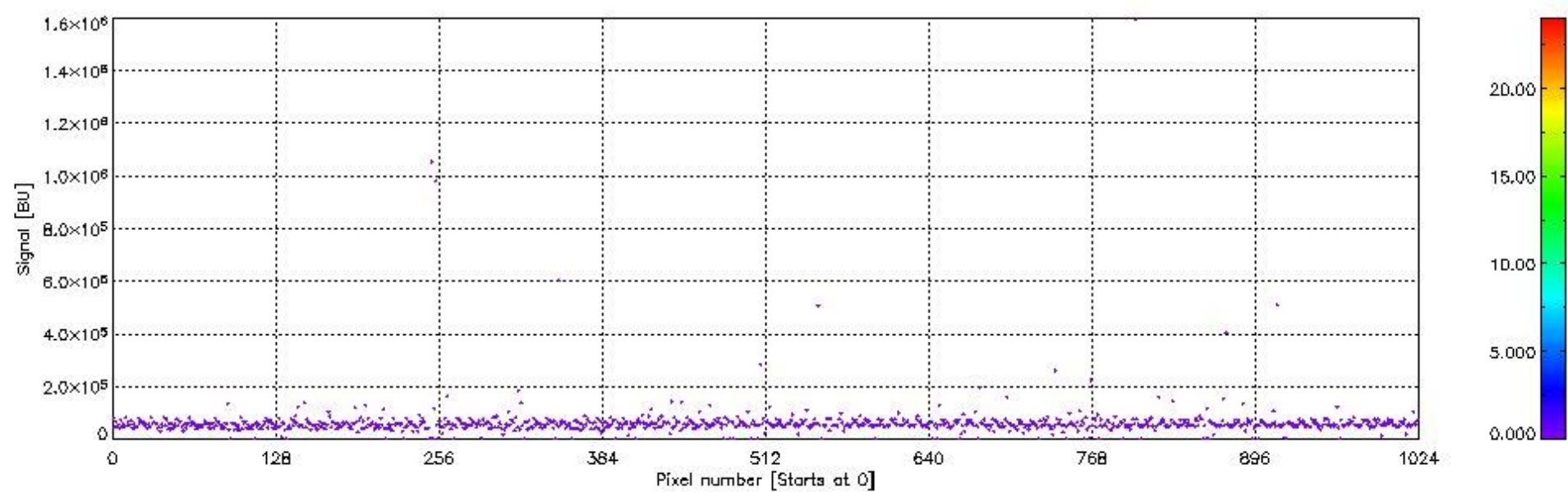
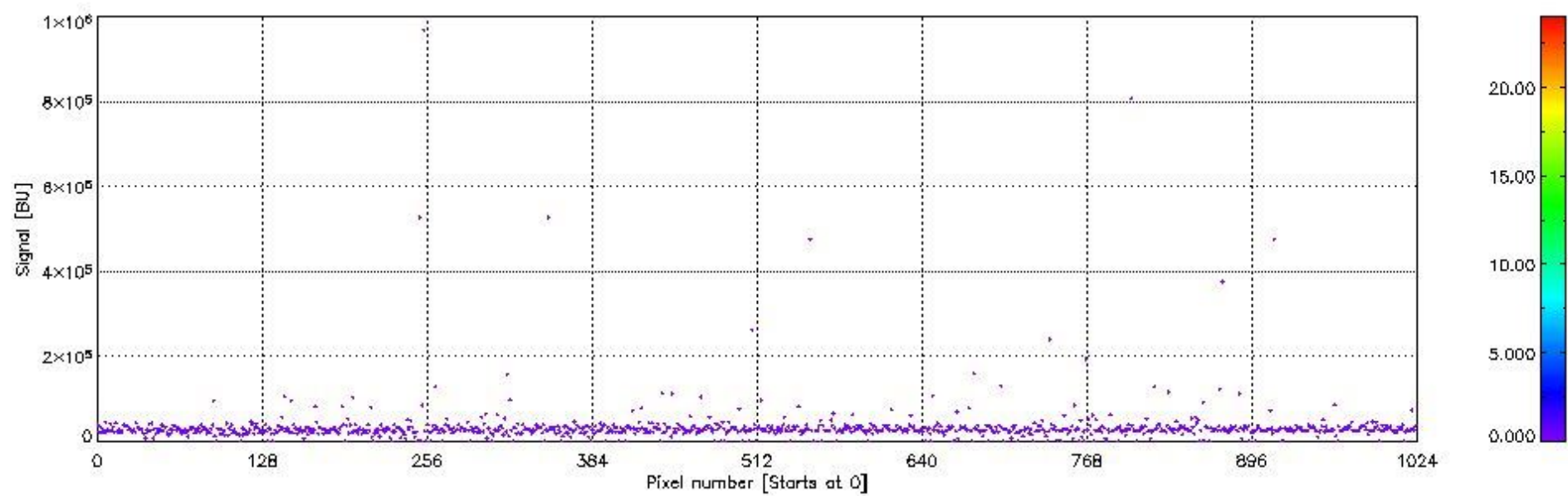
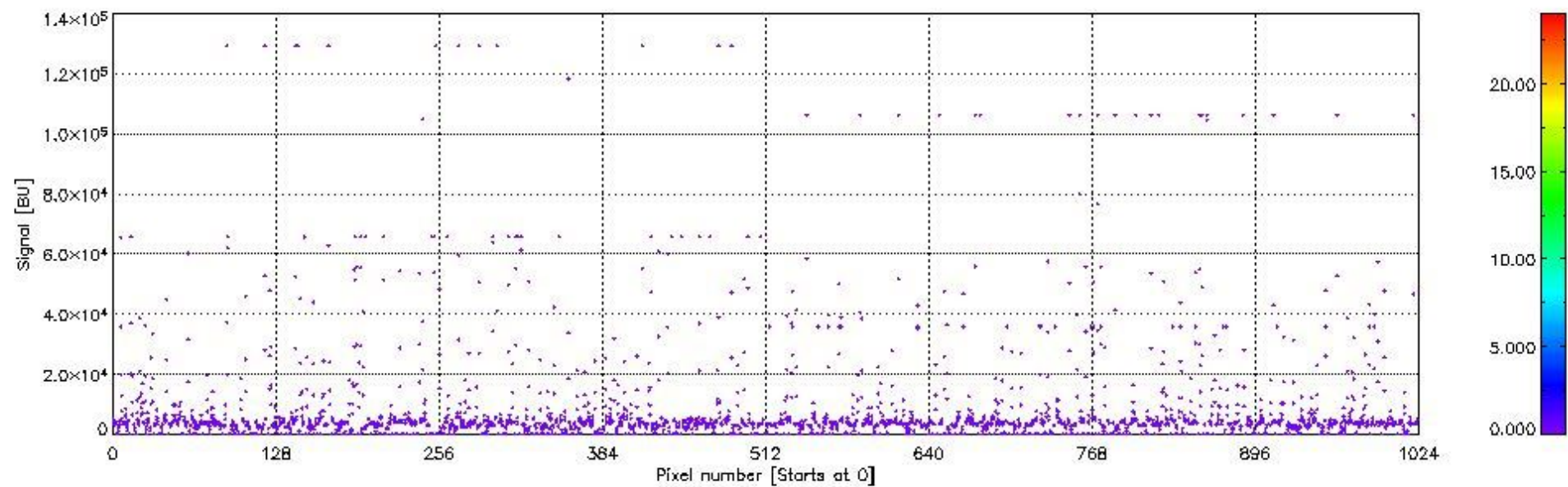
sciamachy_daily_report_level1__SCIA_6_02_N_20070430_4.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 6 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



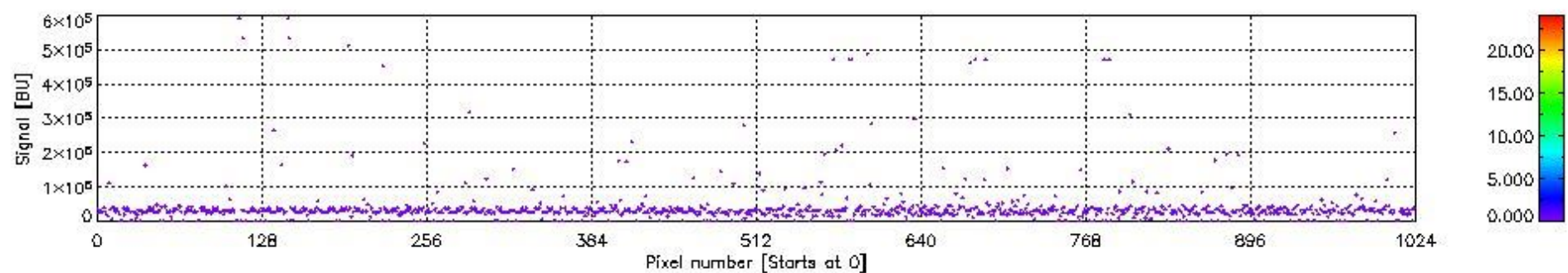
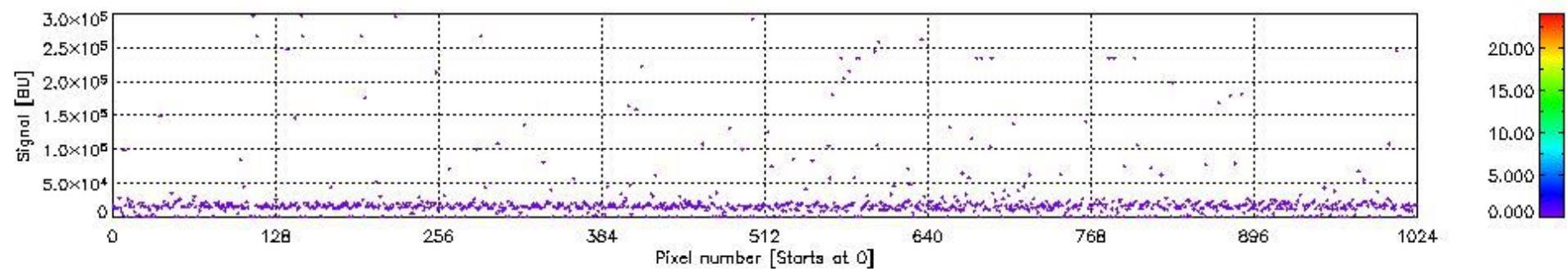
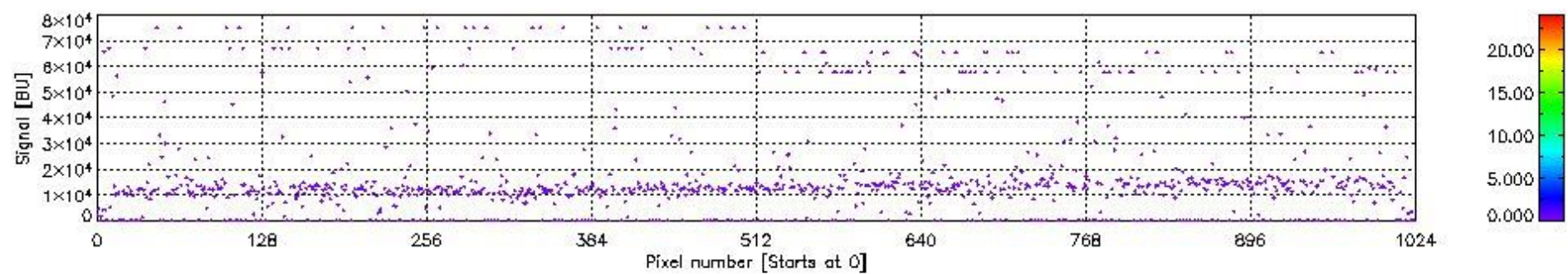
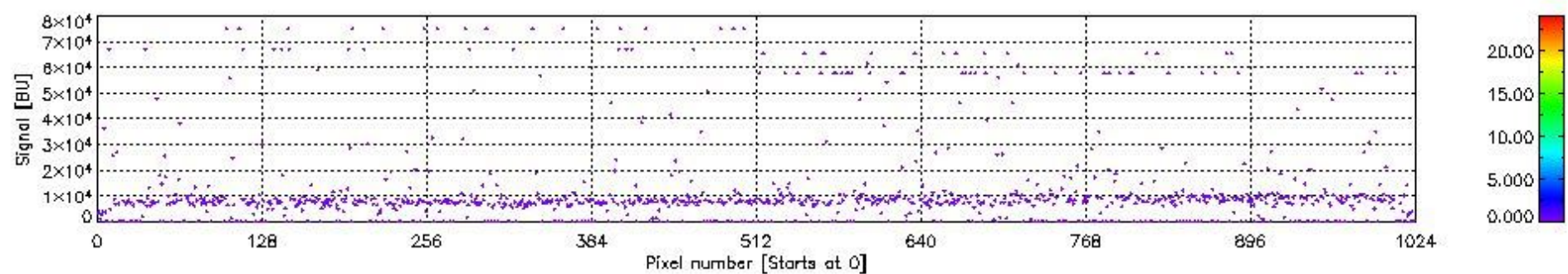
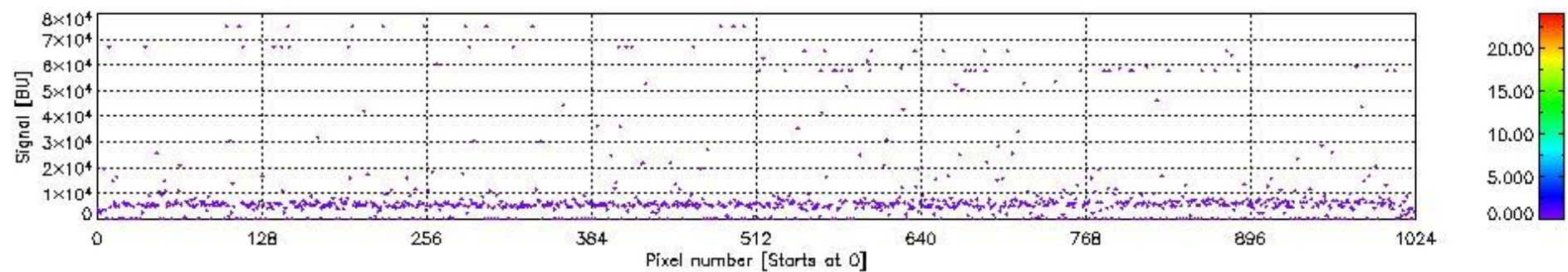
sciamachy_daily_report_level1__SCIA_6_02_N_20070430_5.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 7 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



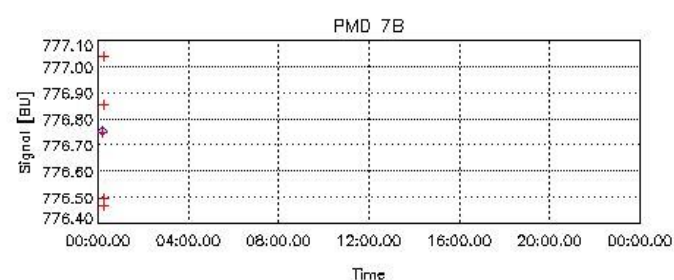
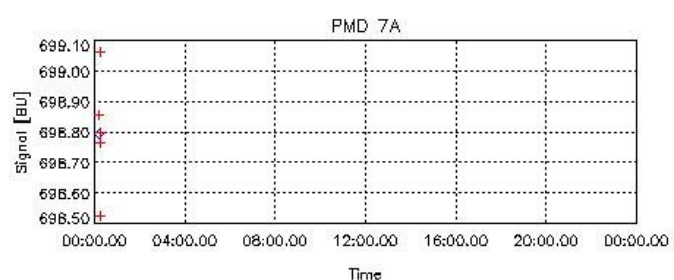
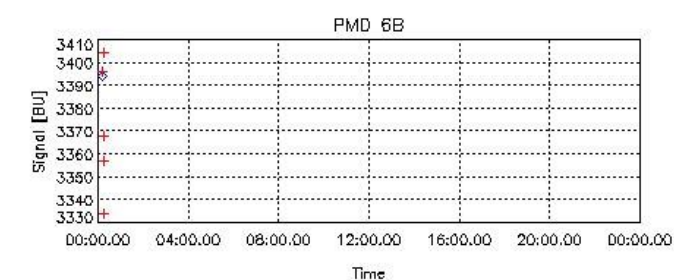
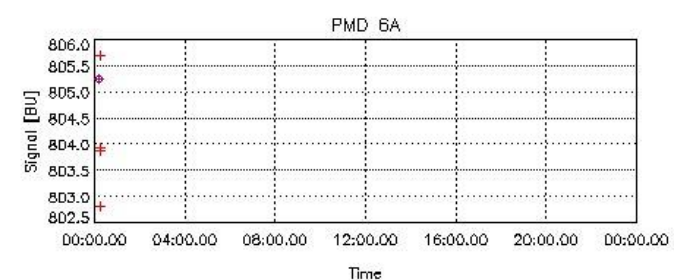
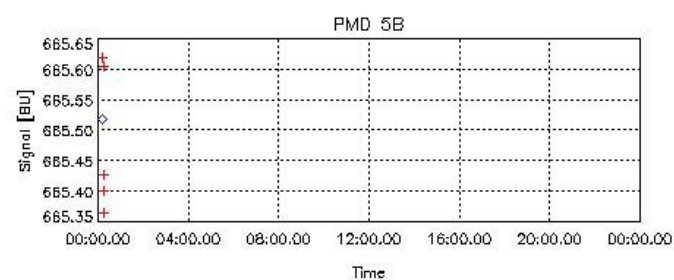
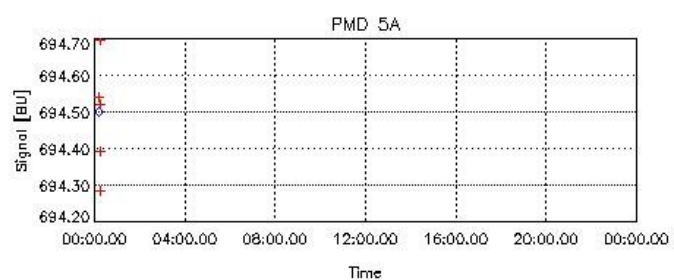
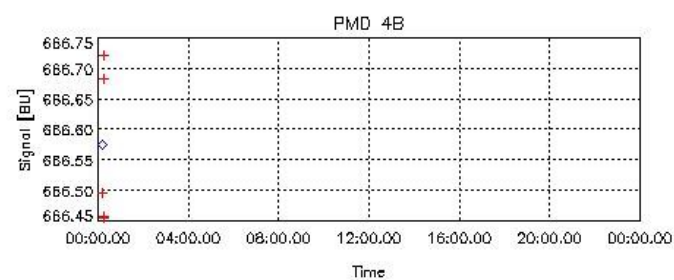
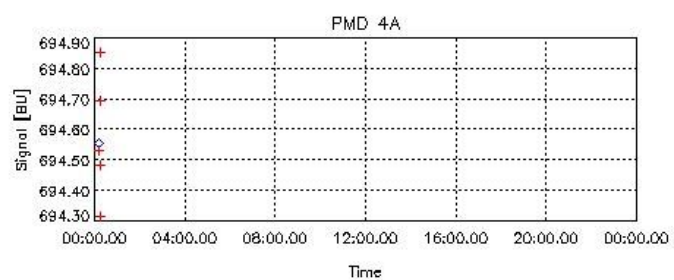
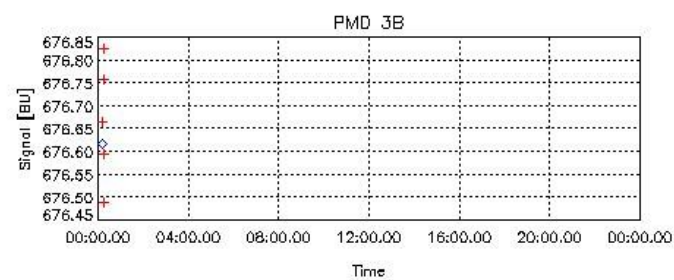
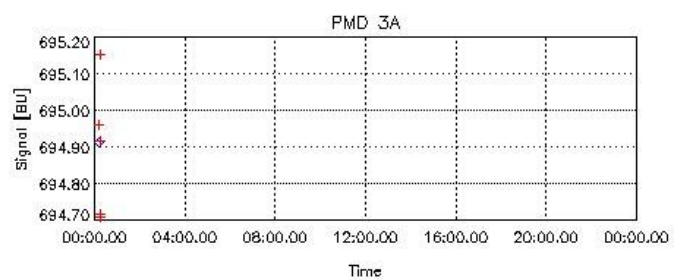
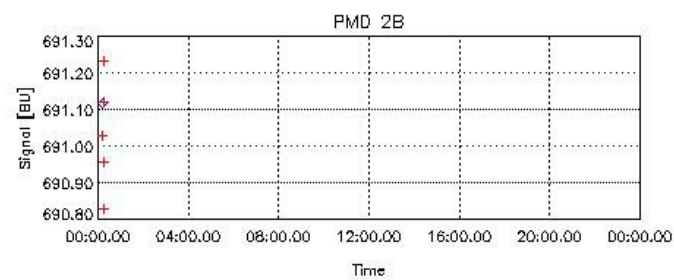
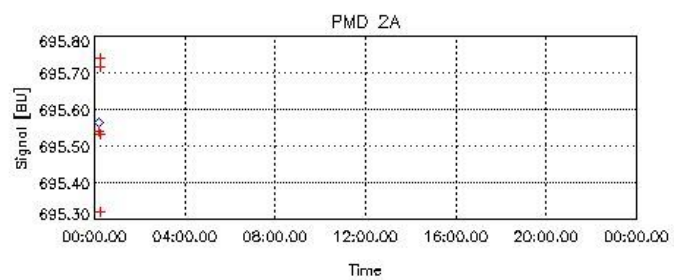
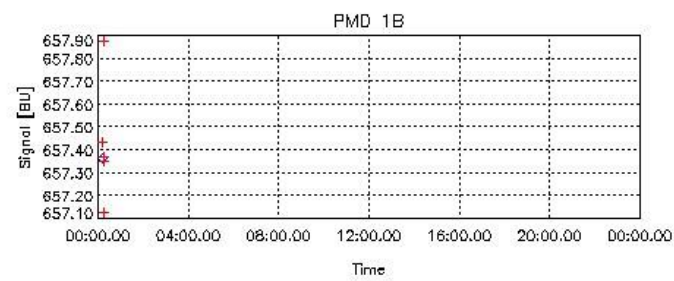
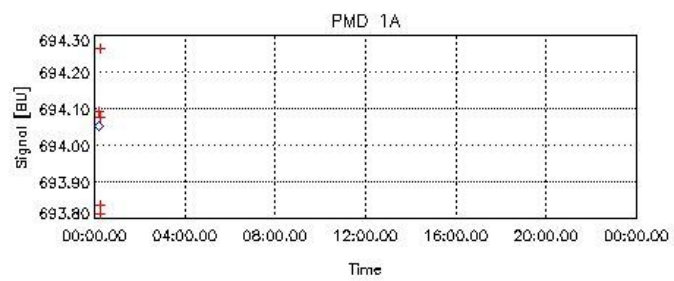
sciamachy_daily_report_level1__SCIA_6_02_N_20070430_6.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 8 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00

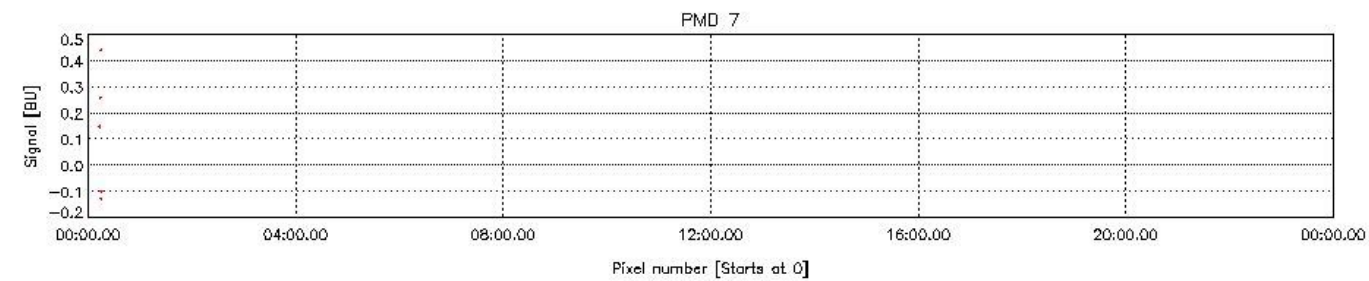
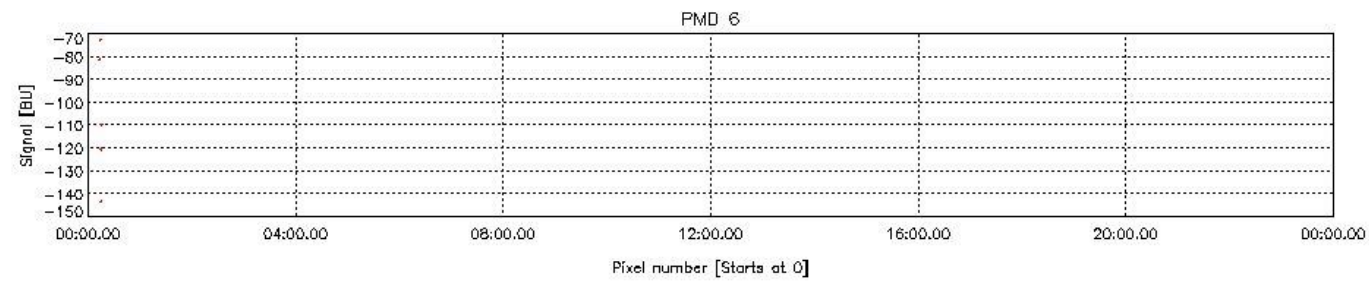
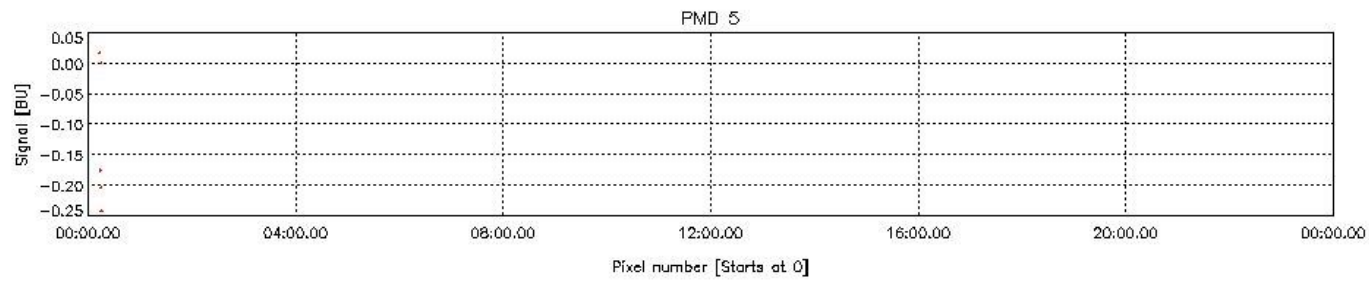
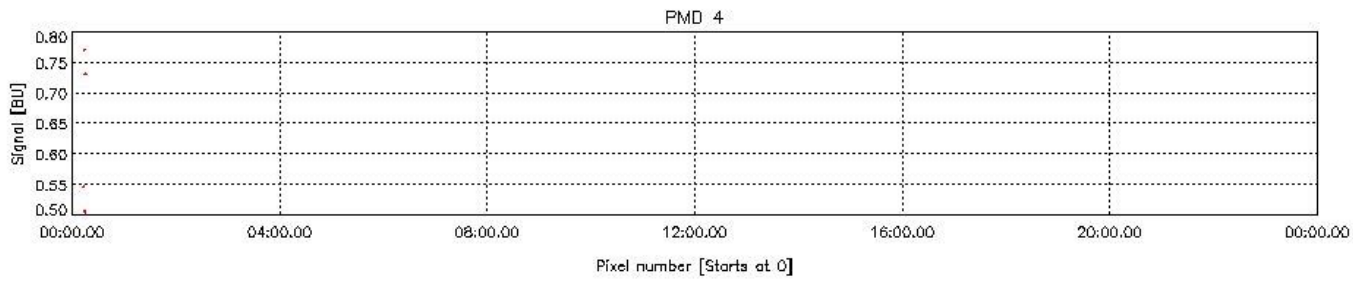
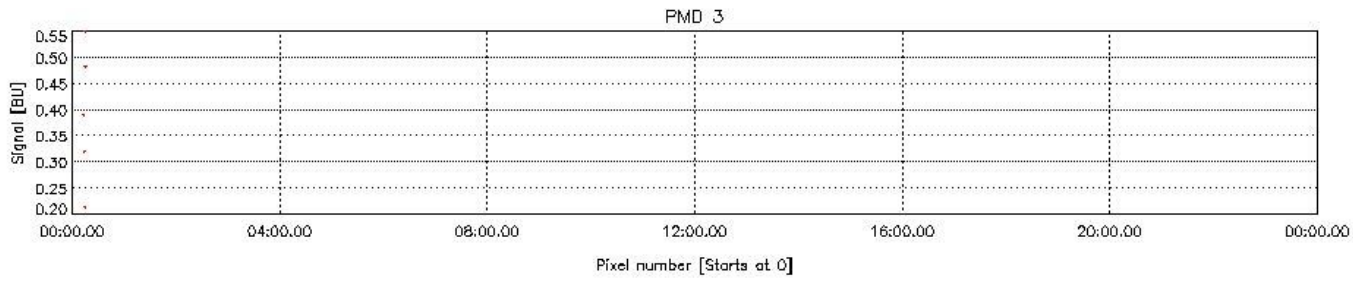
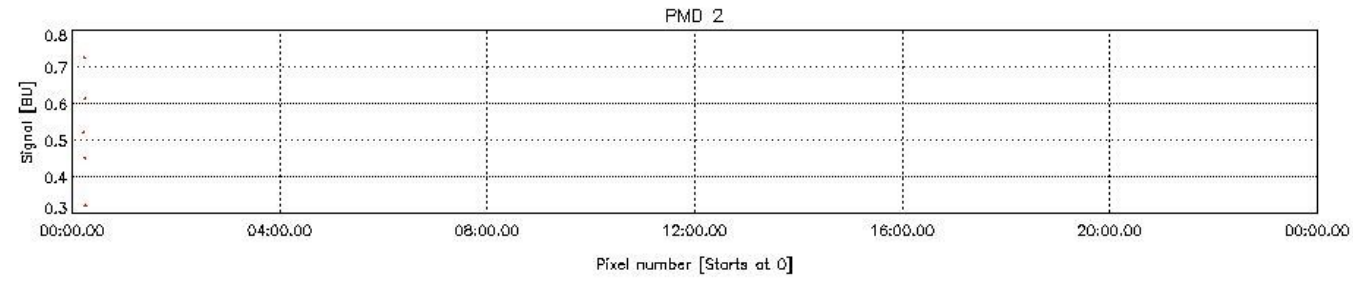
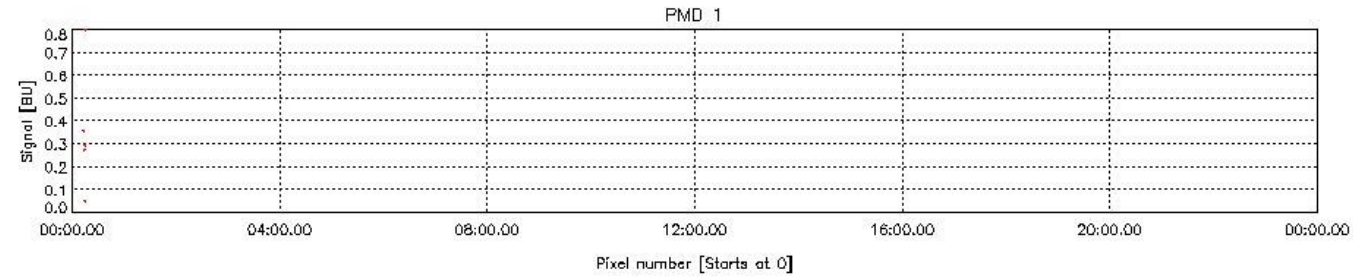


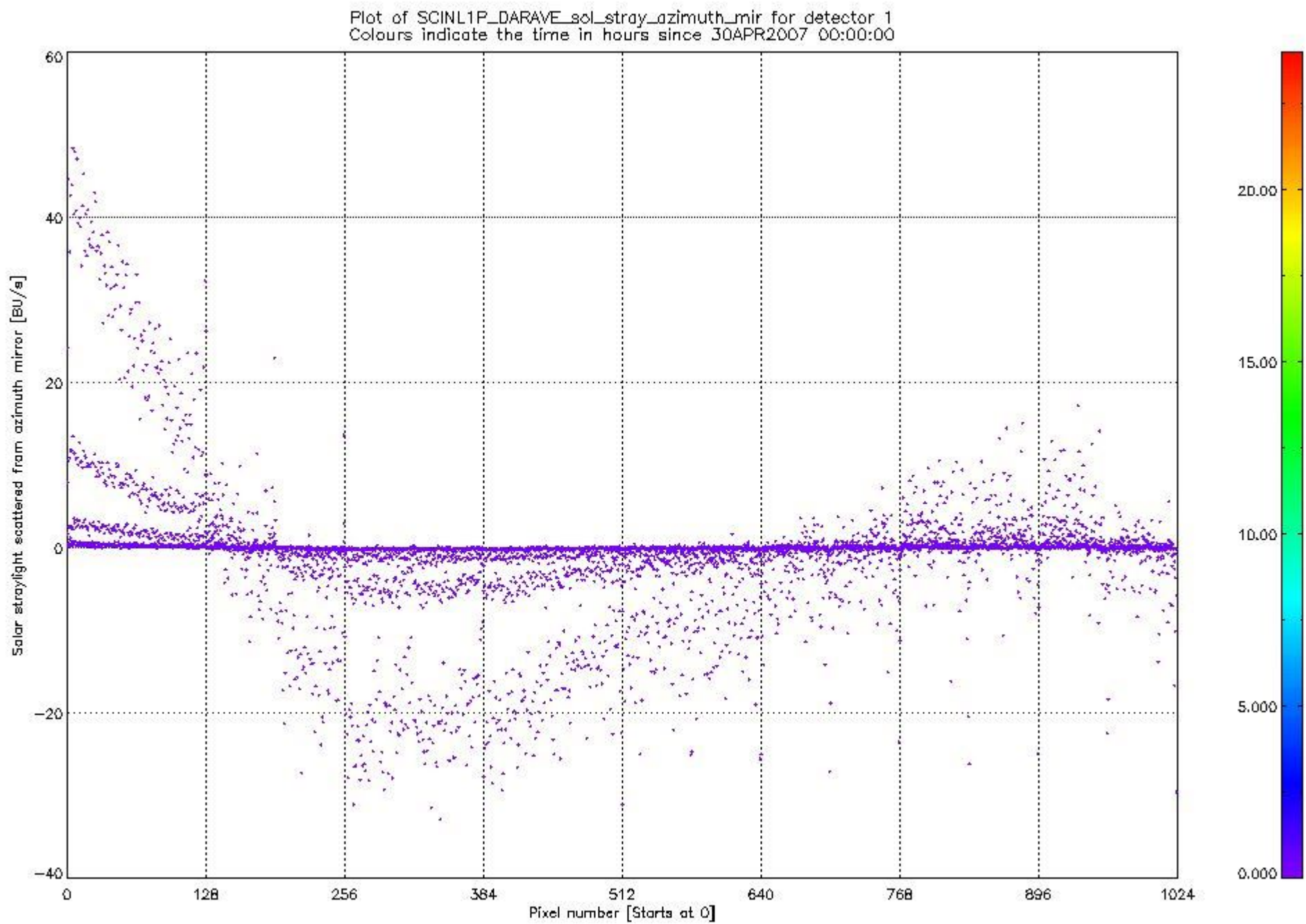
sciamachy_daily_report_level1__SCIA_6_02_N_20070430_7.PNG

Plots of SCINL1P_DARAVE_pmd_dark_offset vs time on 30APR2007 (red).
New leakage current offset data is given in blue for comparison.

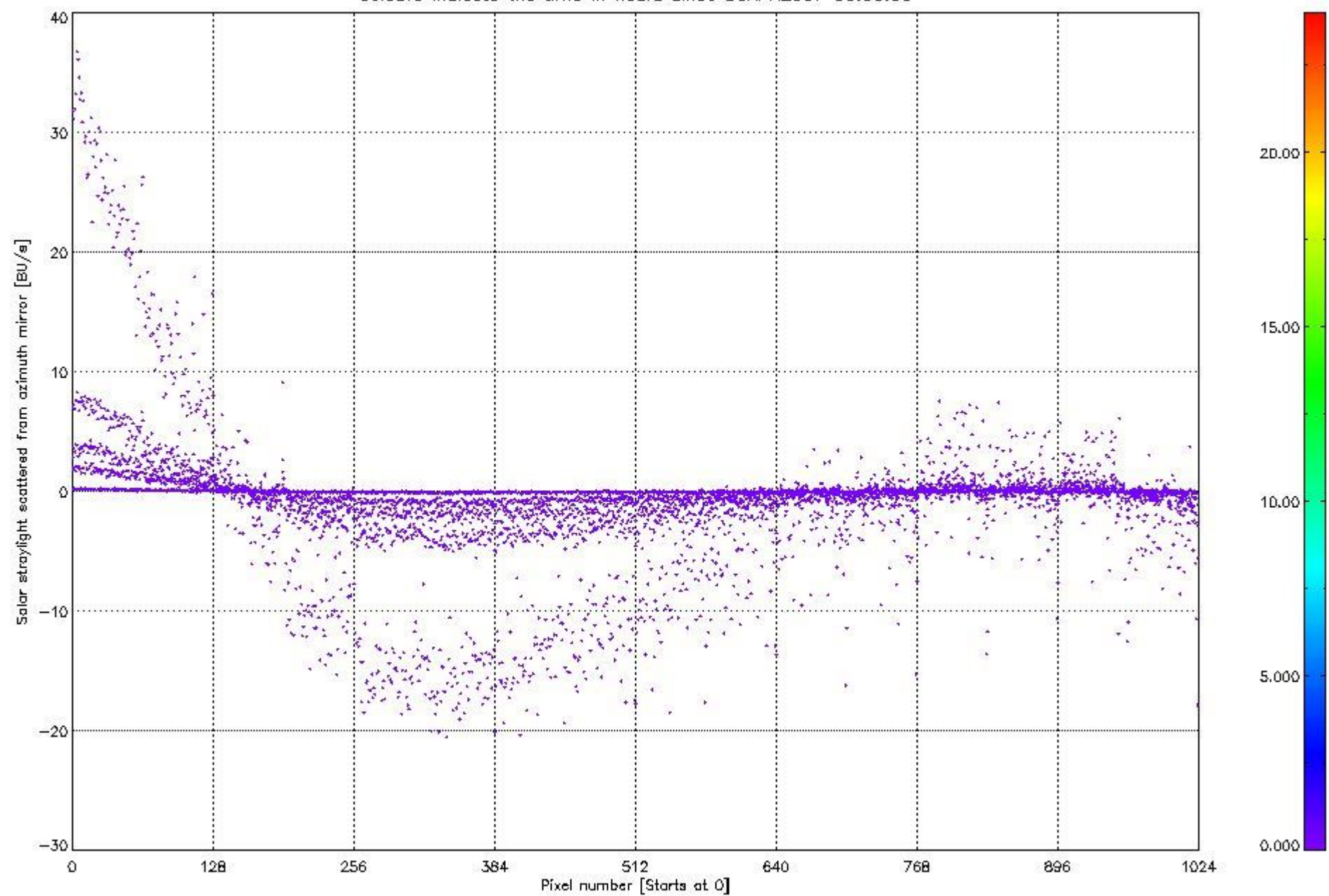


sciamachy_daily_report_level1__SCIA_6_02_N_20070430_8.PNG

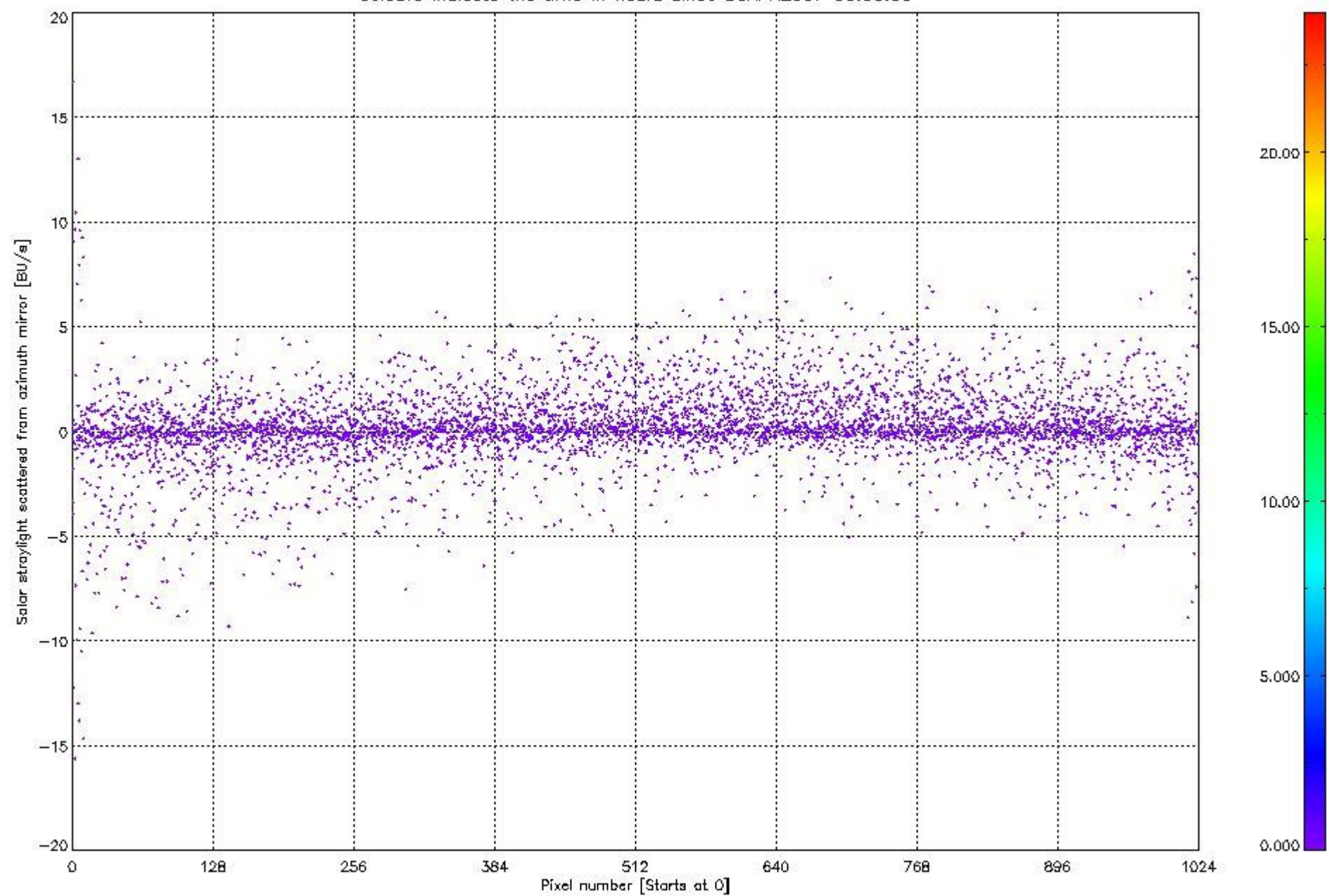




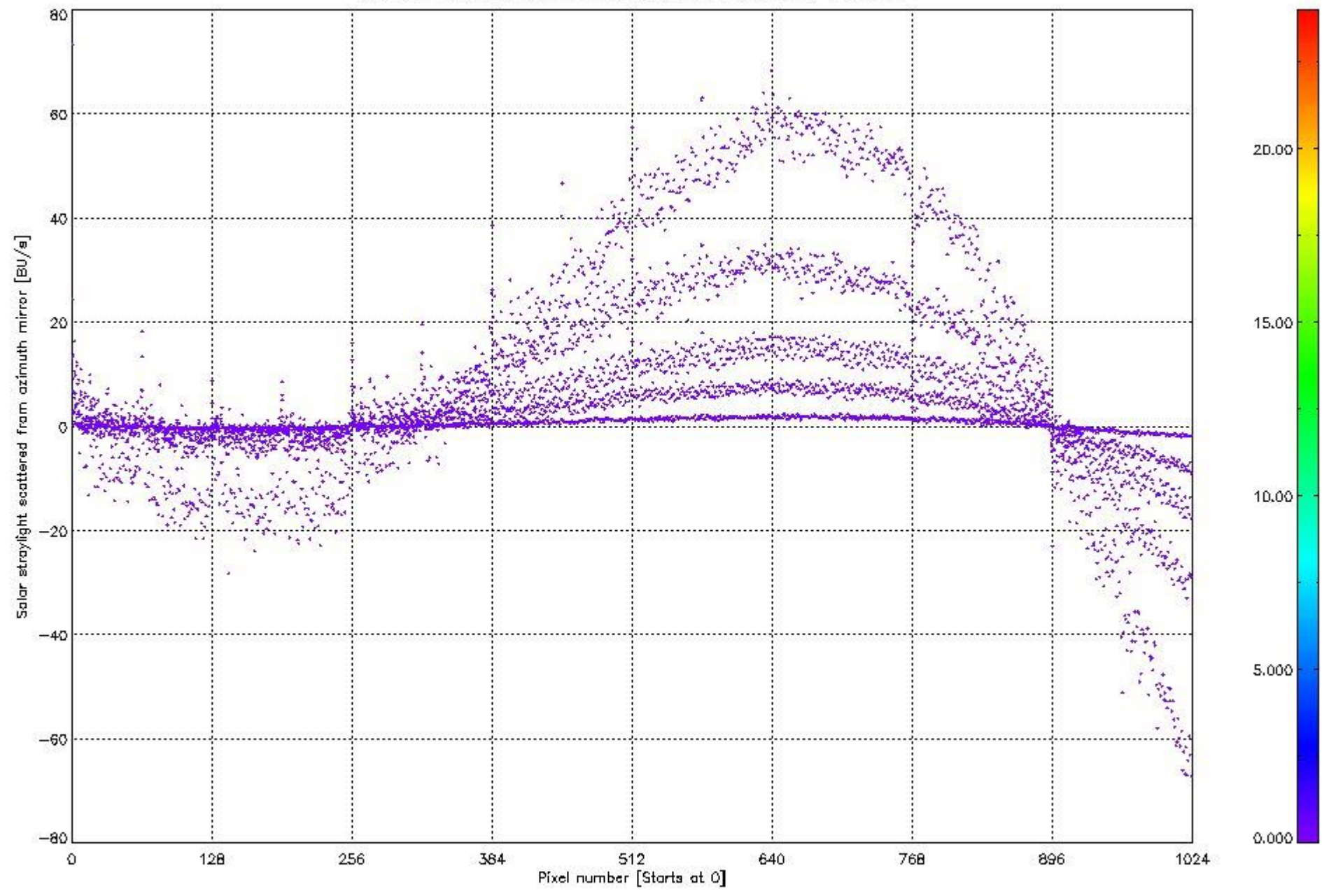
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 2
Colours indicate the time in hours since 30APR2007 00:00:00



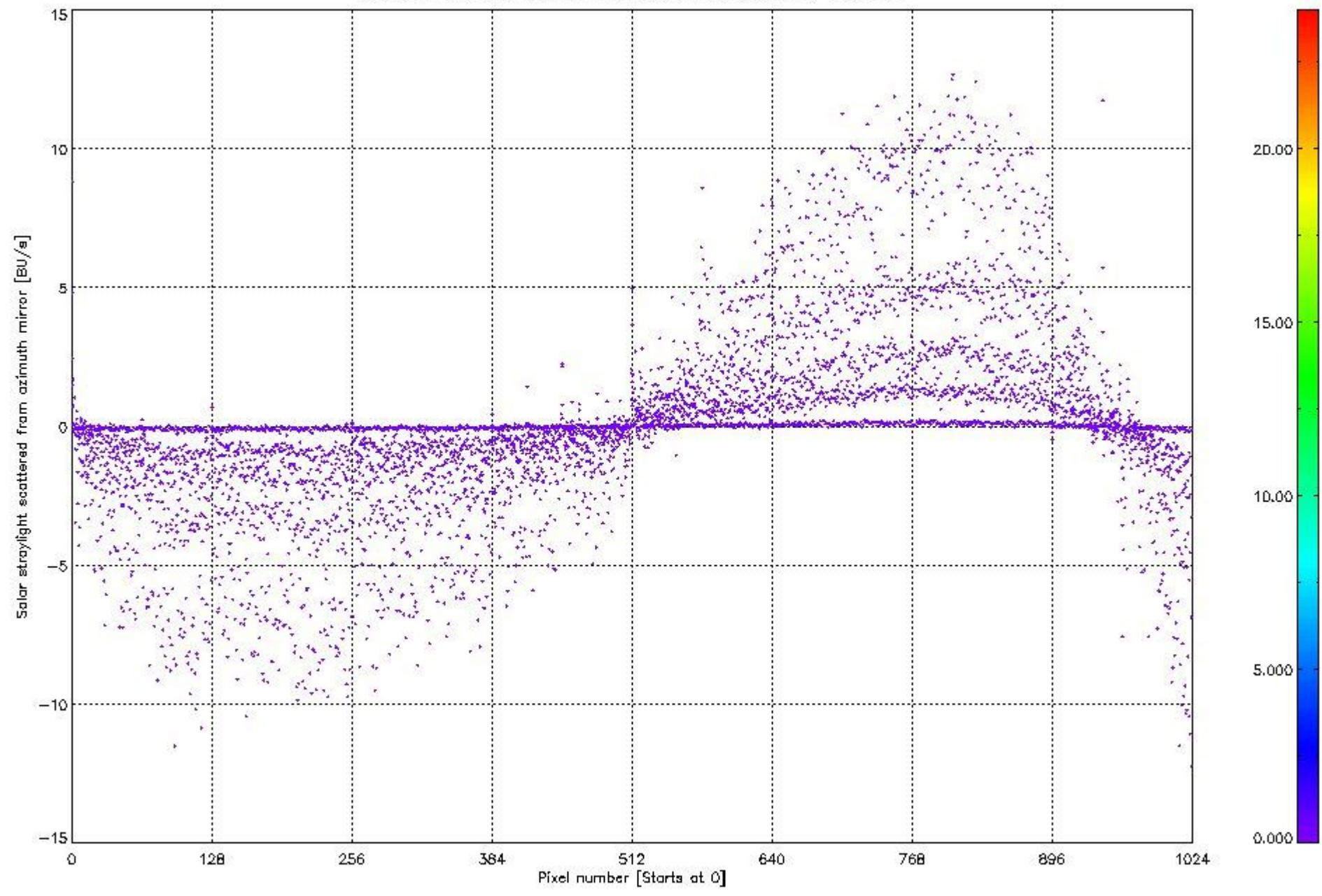
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 3
Colours indicate the time in hours since 30APR2007 00:00:00



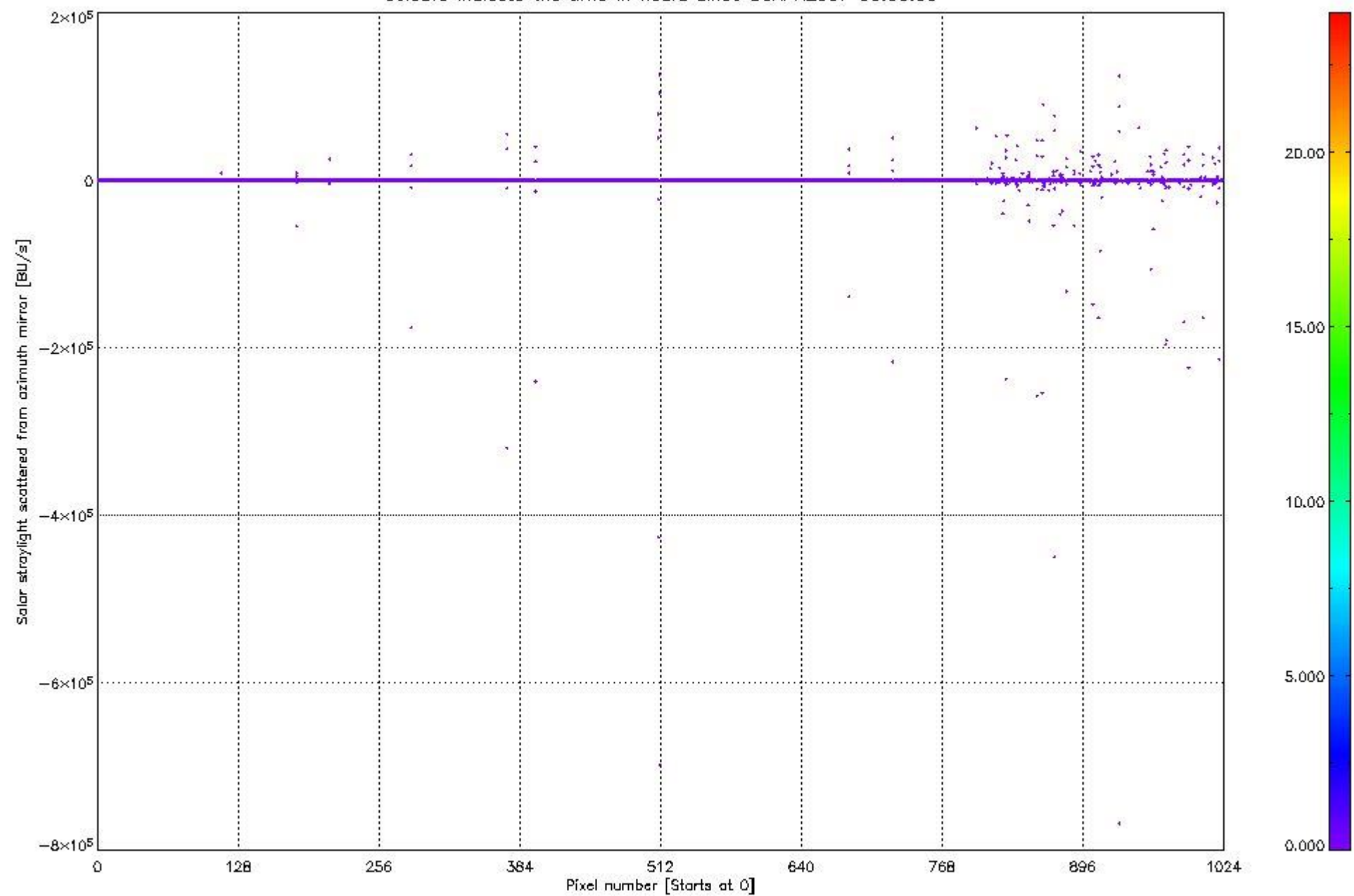
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 4
Colours indicate the time in hours since 30APR2007 00:00:00



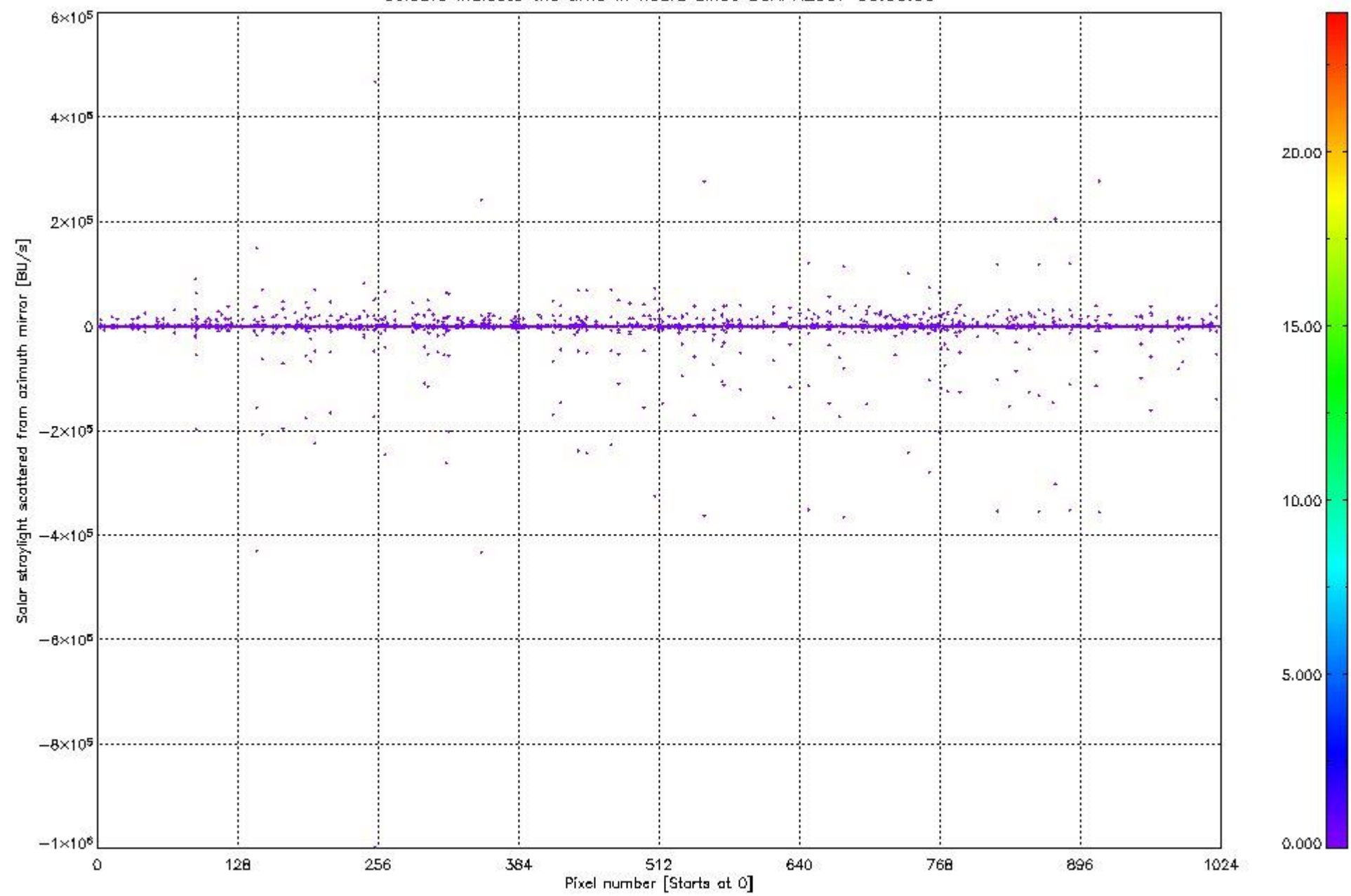
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 5
Colours indicate the time in hours since 30APR2007 00:00:00



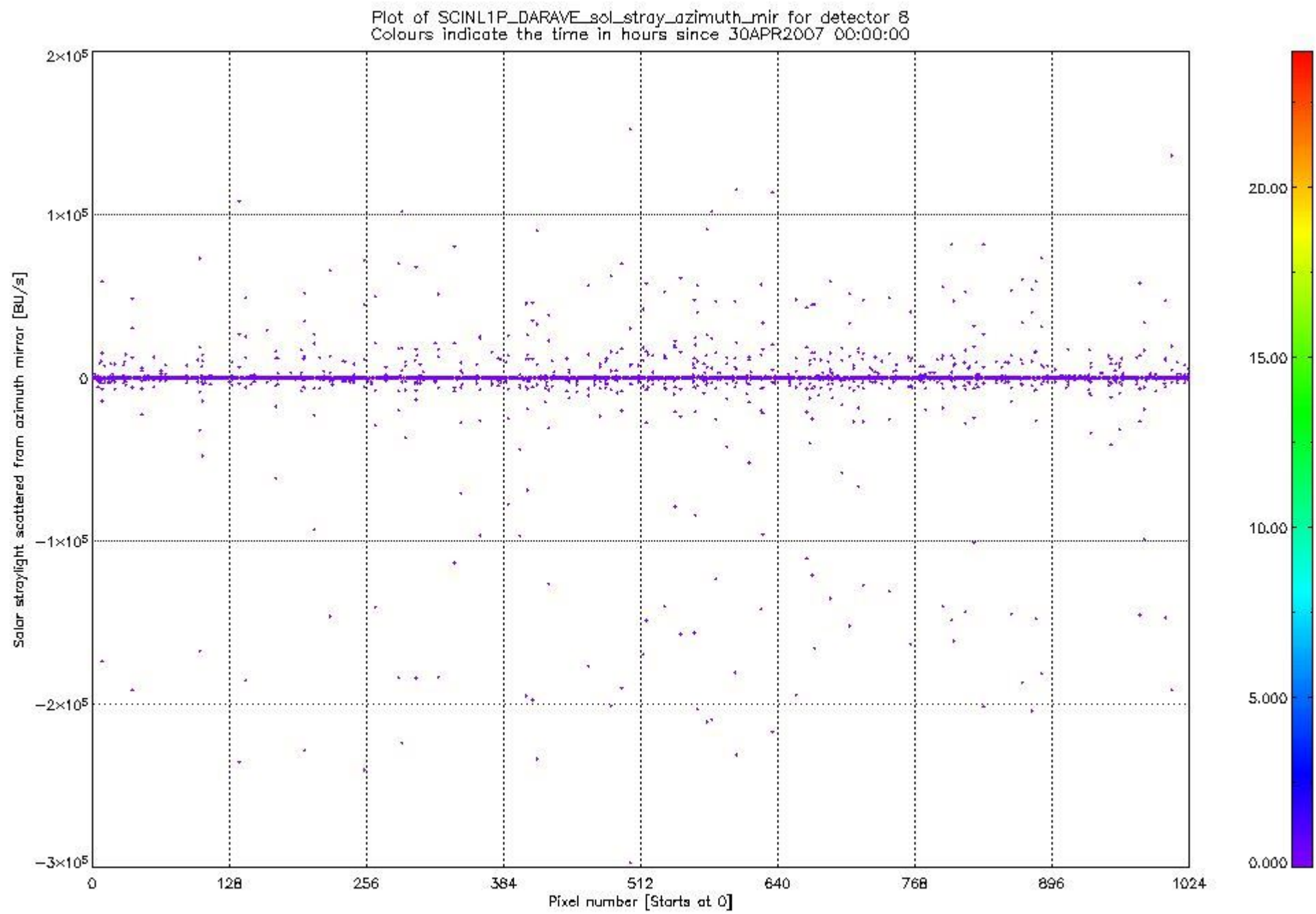
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 6
 Colours indicate the time in hours since 30APR2007 00:00:00



Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 7
 Colours indicate the time in hours since 30APR2007 00:00:00



sciamachy_daily_report_level1_SCIA_6_02_N_20070430_16.PNG



sciamachy_daily_report_level1_SCIA_6_02_N_20070430_17.PNG

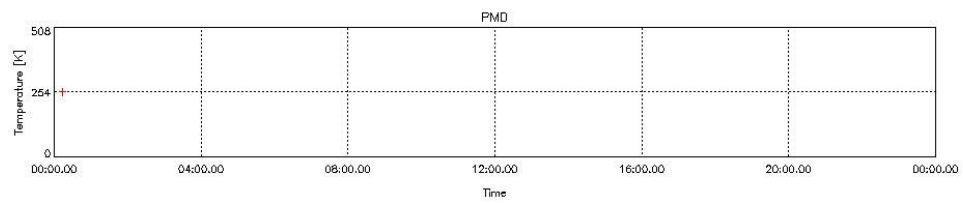
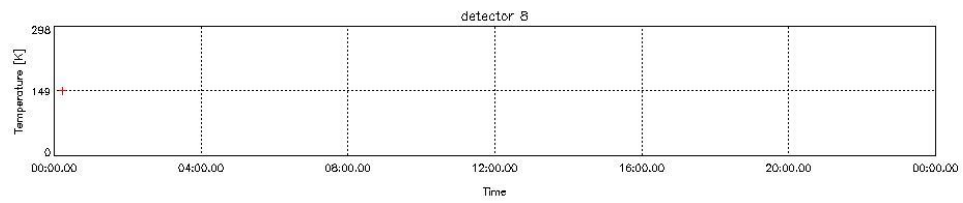
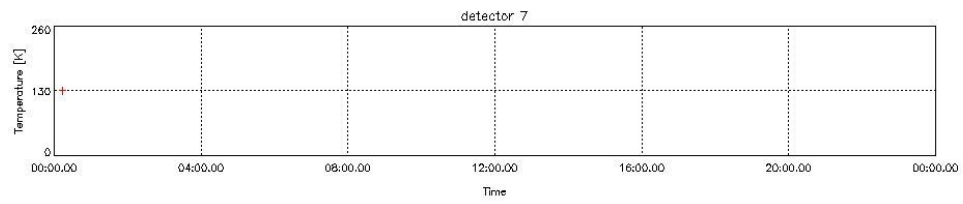
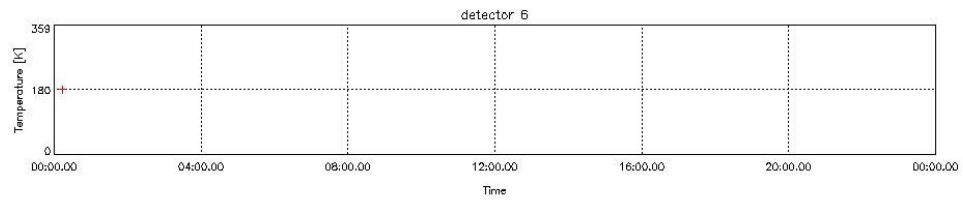
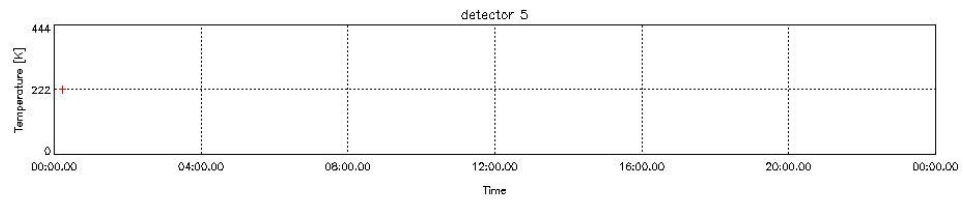
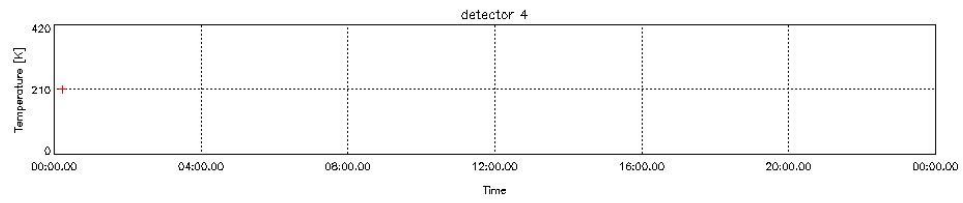
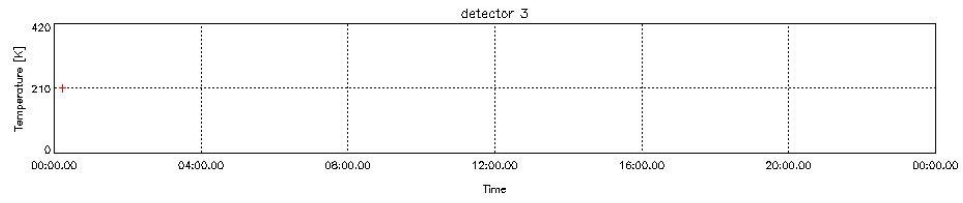
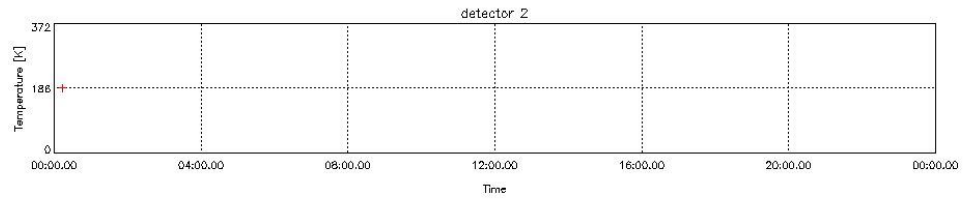
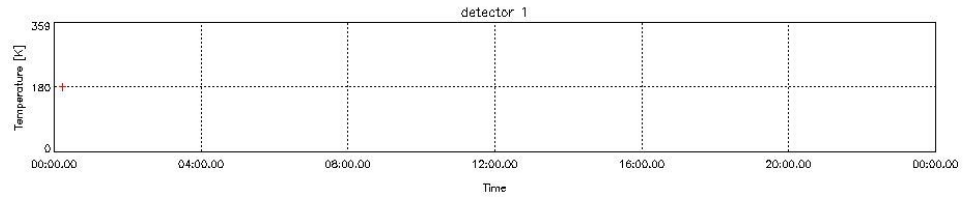
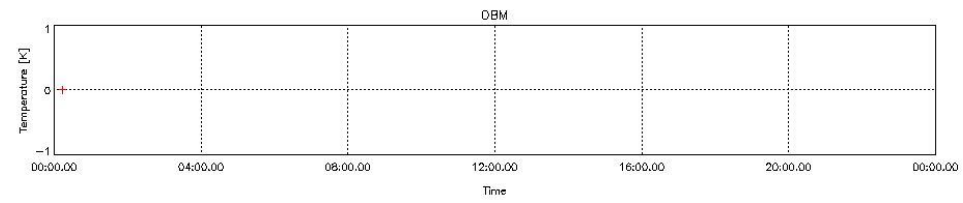
1.2.2 New leakage current parameters

This section lists properties of the new leakage current data within the processing scope.

The following table shows the new leakage measurement data characteristics.

#	dsr_time	attach	orb_phase
0	30APR2007 00:13:14	1	0.131333

Plots of SCINL1P_NEWLEA_obm_detL_prnd temperatures vs time on 30APR2007.



sciamachy_daily_report_level1_SCIA_6_02_N_20070430_18.PNG

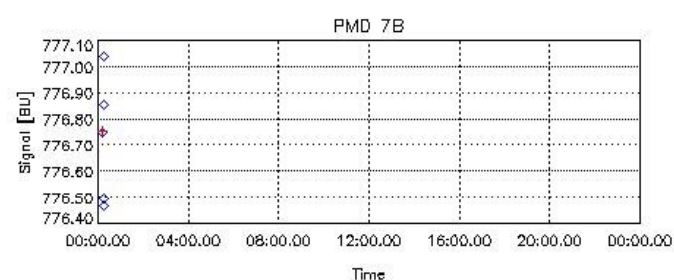
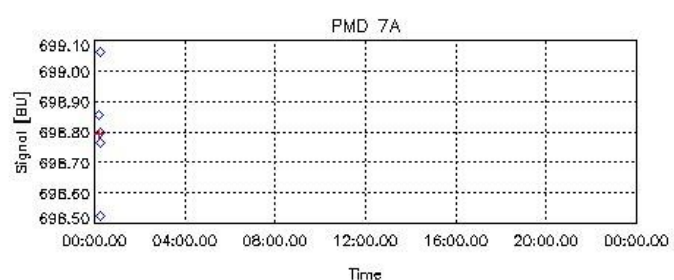
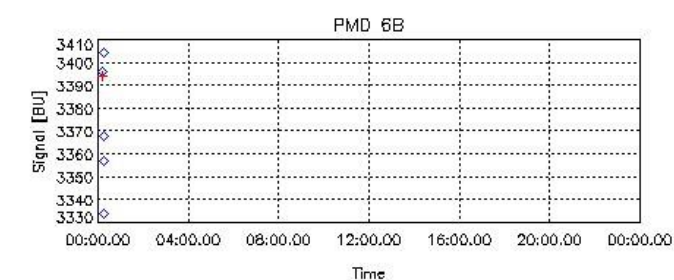
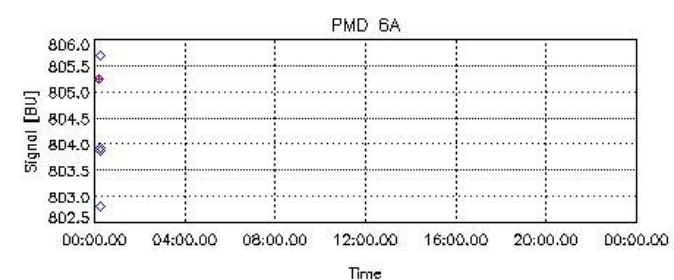
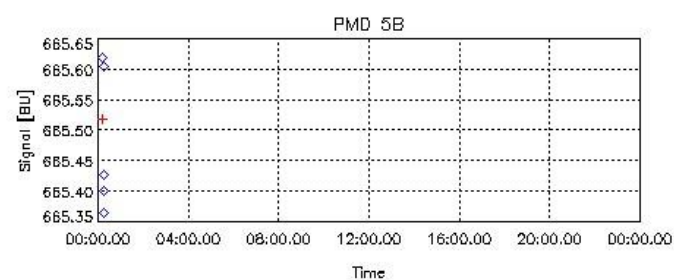
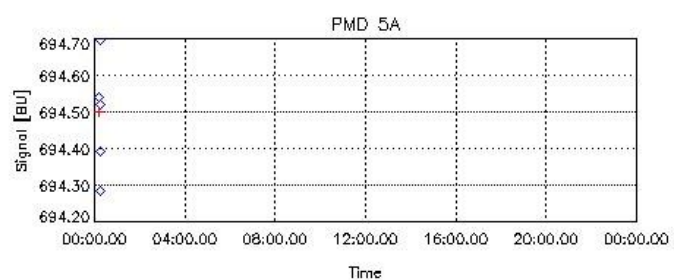
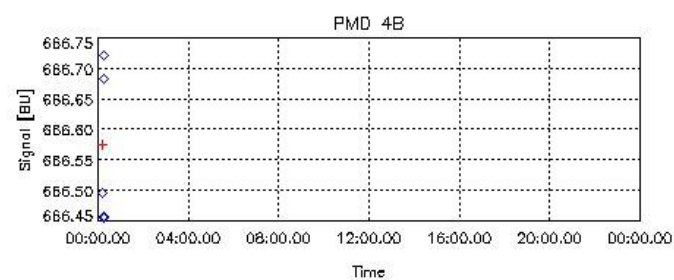
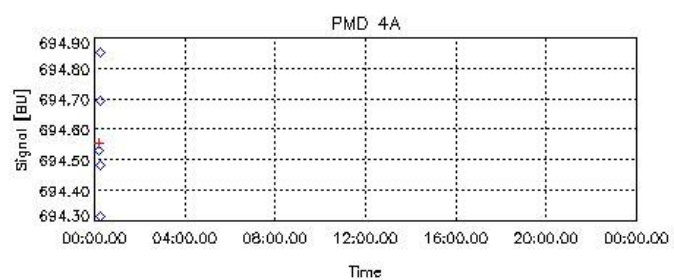
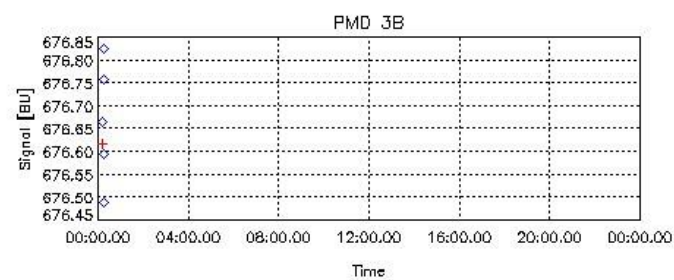
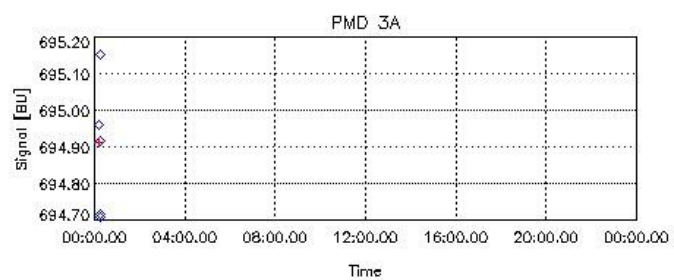
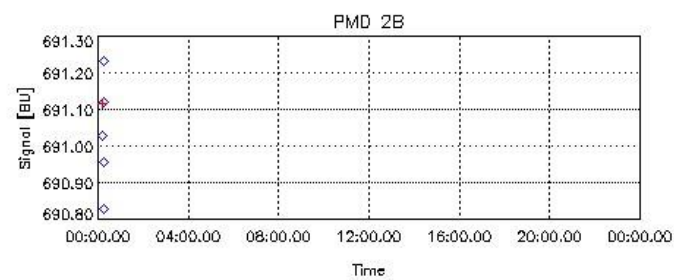
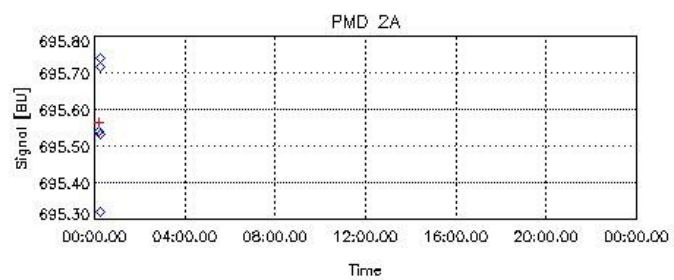
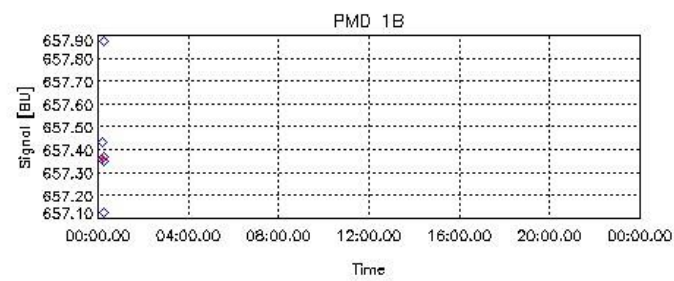
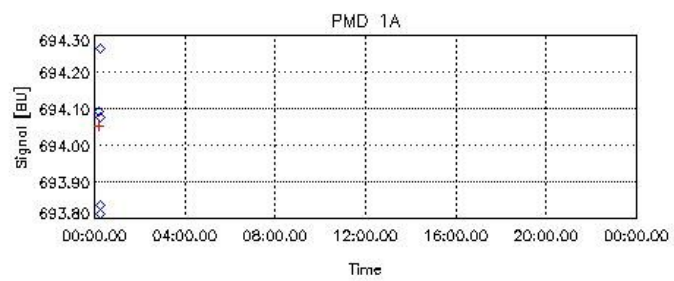
Plots of SCINL1P_NEWLEA_leak_cur for various detectors on 30APR2007.
Colours indicate the value in BU/s.

sciamachy_daily_report_level1_SCIA_6_02_N_20070430_19.PNG

sciamachy_daily_report_level1__SCIA_6_02_N_20070430_20.PNG

sciamachy_daily_report_level1_SCIA_6_02_N_20070430_21.PNG

Plots of SCINL1P_NEWLEA_pmd_off vs time on 30APR2007 (red).
 Dark average pmd data is given in blue for comparison.



1.2.3 Spectral calibration parameters

(No new spectral calibration data available for this processing scope)

1.2.4 New sun reference spectrum parameters

(No new sunref data available for this processing scope)

1.2.5 PPG and Etalon parameters

(No PPG and Etalon data available for this processing scope)

1.3 ADF monitoring

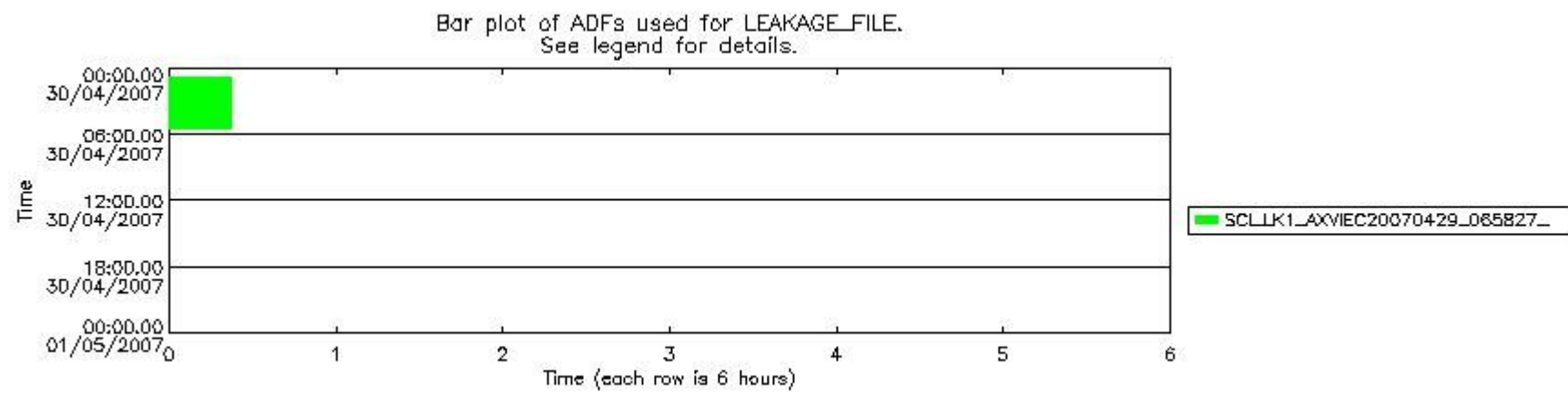
This section shows the (variation in) ADFs used for each of the products. It consists of:

- A table showing which ADFs having a start validity of the current time scope are currently available (if present).
- 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.

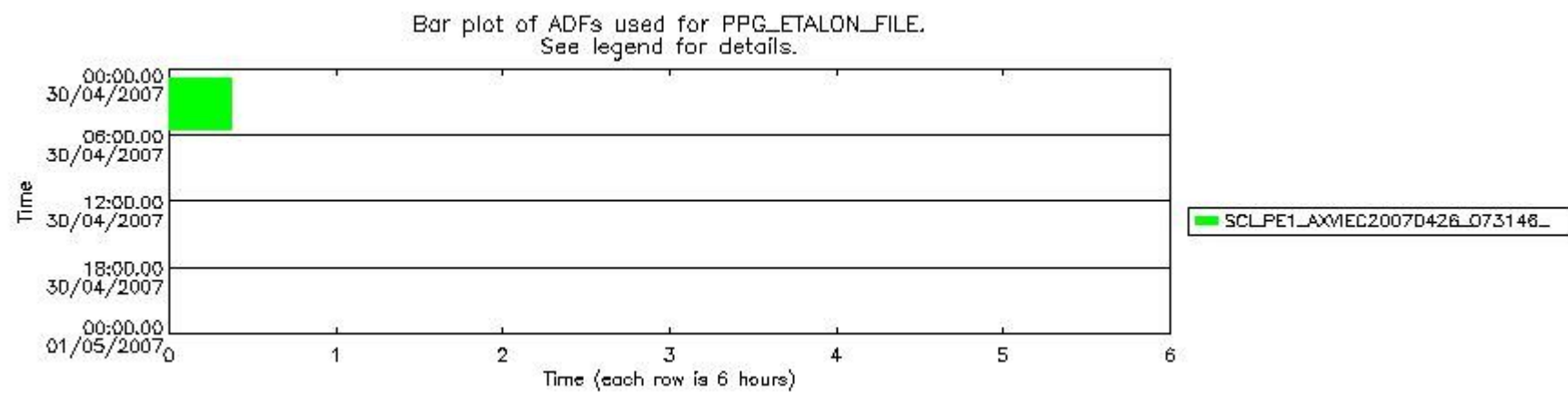
Number	ADF name
0	SCI_LK1_AXVIEC20070503_055651_20070430_031131_20070629_045303
1	SCI_LK1_AXVD-P20070430_190155_20070430_031131_20070629_045303
2	SCI_LK1_AXVIEC20070503_055923_20070430_092247_20070629_110214
3	SCI_LK1_AXVIEC20070503_060106_20070430_092247_20070629_110214
4	SCI_LK1_AXVD-P20070430_192011_20070430_092247_20070629_110214
5	SCI_LK1_AXVD-P20070430_194252_20070430_092247_20070629_110214
6	SCI_LK1_AXVD-P20070430_200522_20070430_110118_20070629_124154
7	SCI_LK1_AXVIEC20070503_060203_20070430_110118_20070629_124154
8	SCI_LK1_AXVD-P20070430_202746_20070430_124154_20070629_142121
9	SCI_LK1_AXVIEC20070503_060428_20070430_124154_20070629_142121
10	SCI_LK1_AXVIEC20070503_060646_20070430_142025_20070629_155748
11	SCI_LK1_AXVD-P20070430_205120_20070430_142025_20070629_155748
12	SCI_LK1_AXVIEC20070503_060704_20070430_163916_20070629_173636
13	SCI_LK1_AXVD-P20070430_212107_20070430_163916_20070629_173636
14	SCI_LK1_AXVIEC20070503_060733_20070430_194205_20070629_205526
15	SCI_LK1_AXVD-P20070430_234004_20070430_194205_20070629_205526
16	SCI_LK1_AXVIEC20070503_060900_20070430_220512_20070629_234711
17	SCI_LK1_AXVD-P20070501_031722_20070430_220512_20070629_234711

Number	ADF
	LK1 (LEAKAGE_FILE)
0	SCI_LK1_AXVIEC20070429_065827_20070426_180901_20070625_193927
	PE1 (PPG_ETALON_FILE)
1	SCI_PE1_AXVIEC20070426_073146_20070420_174752_20990101_000000
	SP1 (SPECTRAL_FILE)
2	SCI_SP1_AXVIEC20070426_072142_20070420_160958_20070719_192827
	SU1 (SUN_REF_FILE)
3	SCI_SU1_AXVIEC20070429_042216_20070426_161950_20070511_193927
	KD1 (KEY_DATA_FILE)
4	SCI_KD1_AXVIEC20060523_182626_20020301_000000_20991231_235959
	MF1 (M_FACTOR_FILE)
5	SCI_MF1_AXVIEC20020809_094925_20020206_173831_20991231_235959

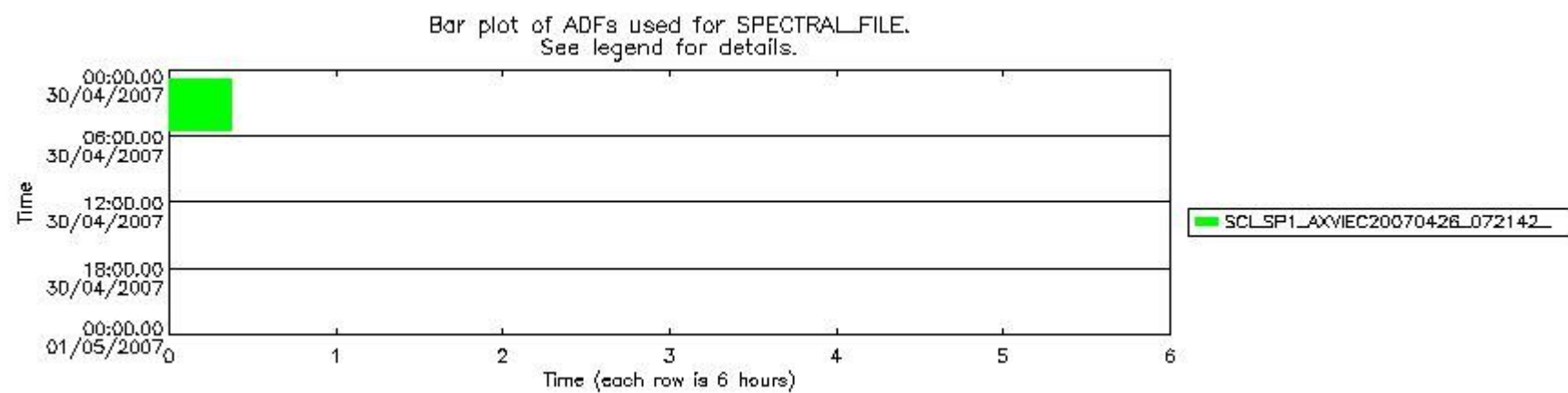
	L1 (INIT_FILE)
6	SCI_L11_AXVIEC20060523_182643_20020701_000000_20991231_235959
	FRO (ORBIT_FILE)
7	DOR_NAV_0PNPDE20070429_204842_000060572057_00386_26993_3385.N1
	ATT (ATTITUDE_FILE)
8	NOT USED



sciamachy_daily_report_level1_SCIA_6_02_N_20070430_23.PNG

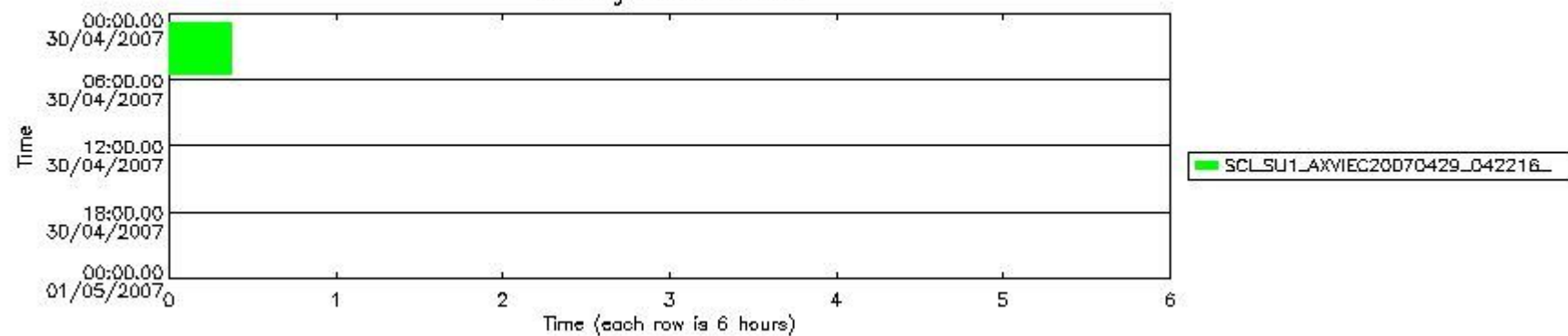


sciamachy_daily_report_level1_SCIA_6_02_N_20070430_24.PNG



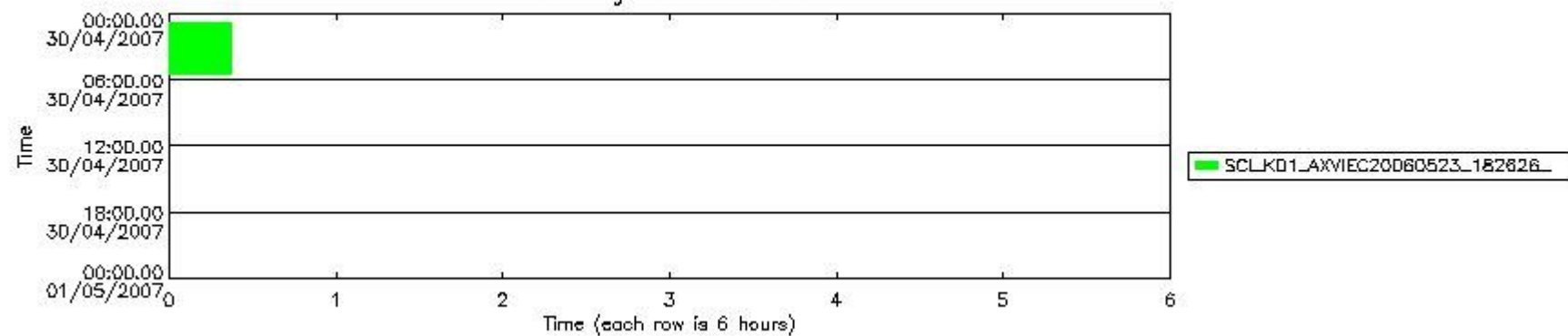
sciamachy_daily_report_level1_SCIA_6_02_N_20070430_25.PNG

Bar plot of ADFs used for SUN_REF_FILE.
See legend for details.



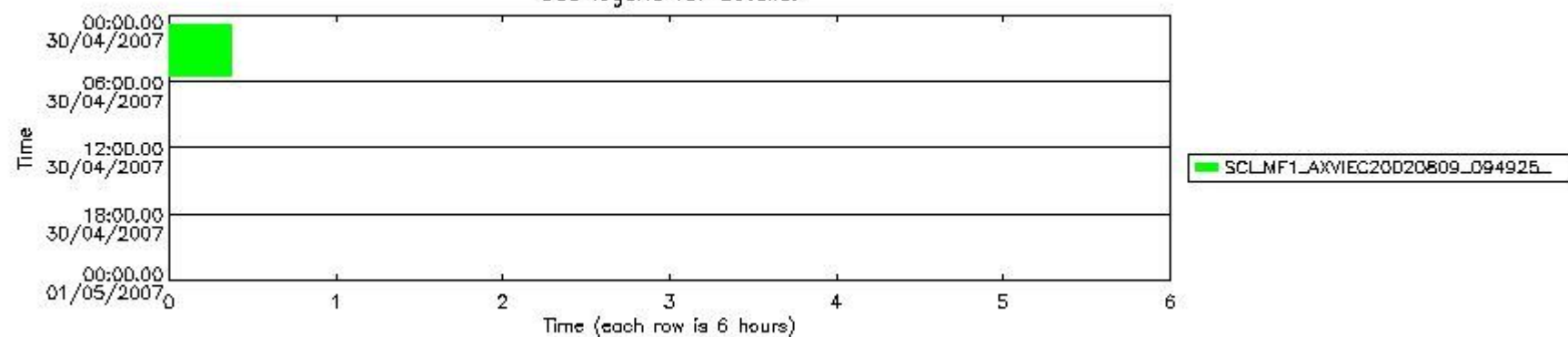
sciamachy_daily_report_level1_SCIA_6_02_N_20070430_26.PNG

Bar plot of ADFs used for KEY_DATA_FILE.
See legend for details.



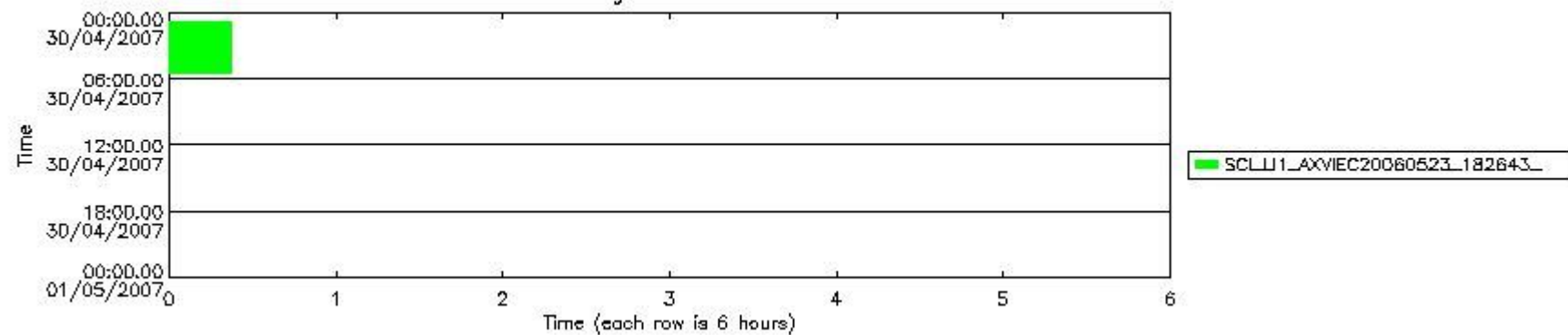
sciamachy_daily_report_level1_SCIA_6_02_N_20070430_27.PNG

Bar plot of ADFs used for M_FACTOR_FILE.
See legend for details.

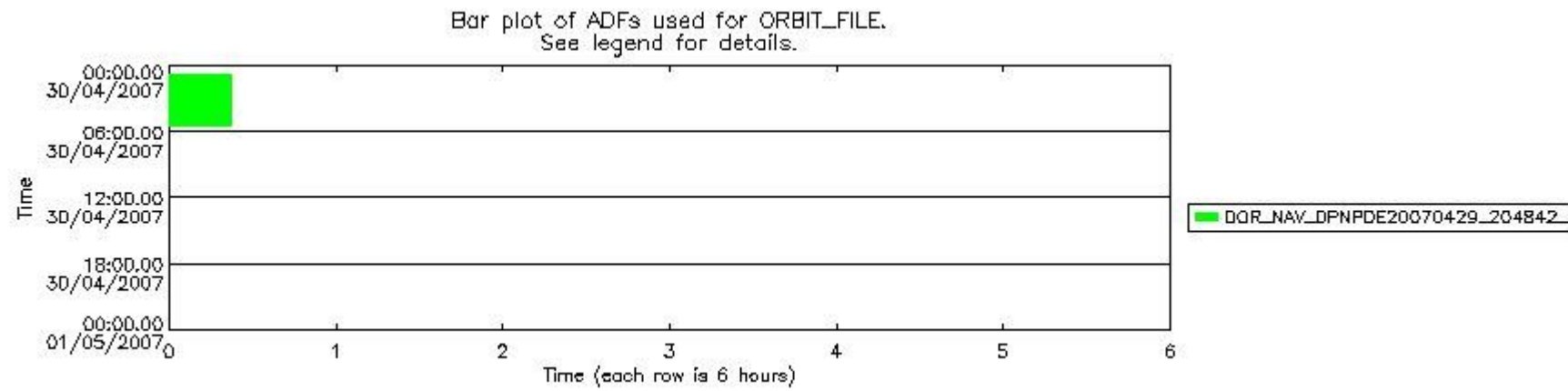


sciamachy_daily_report_level1_SCIA_6_02_N_20070430_28.PNG

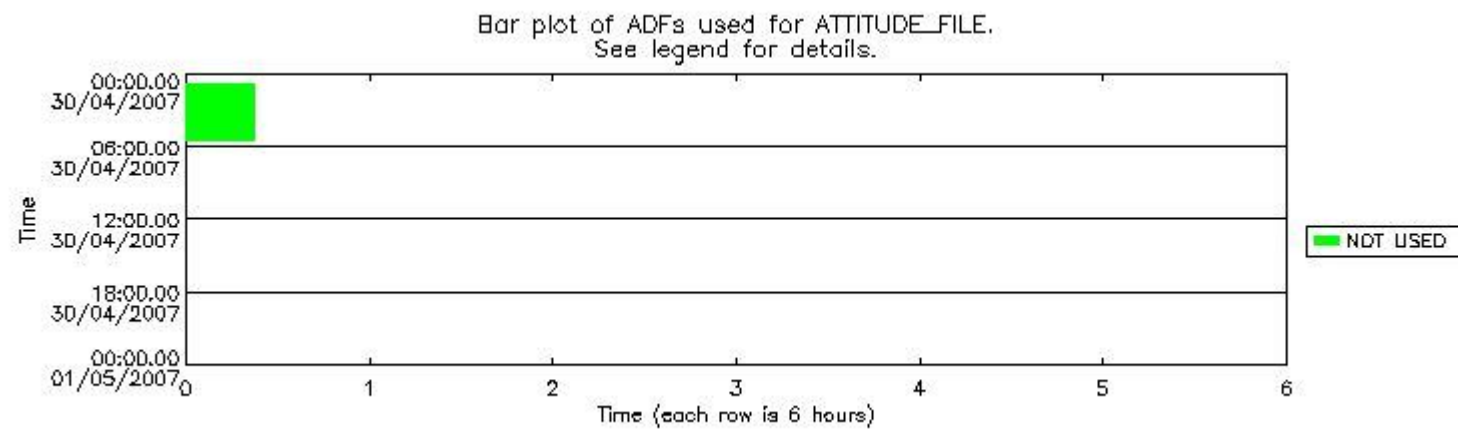
Bar plot of ADFs used for INIT_FILE.
See legend for details.



sciamachy_daily_report_level1_SCIA_6_02_N_20070430_29.PNG



sciamachy_daily_report_level1_SCIA_6_02_N_20070430_30.PNG



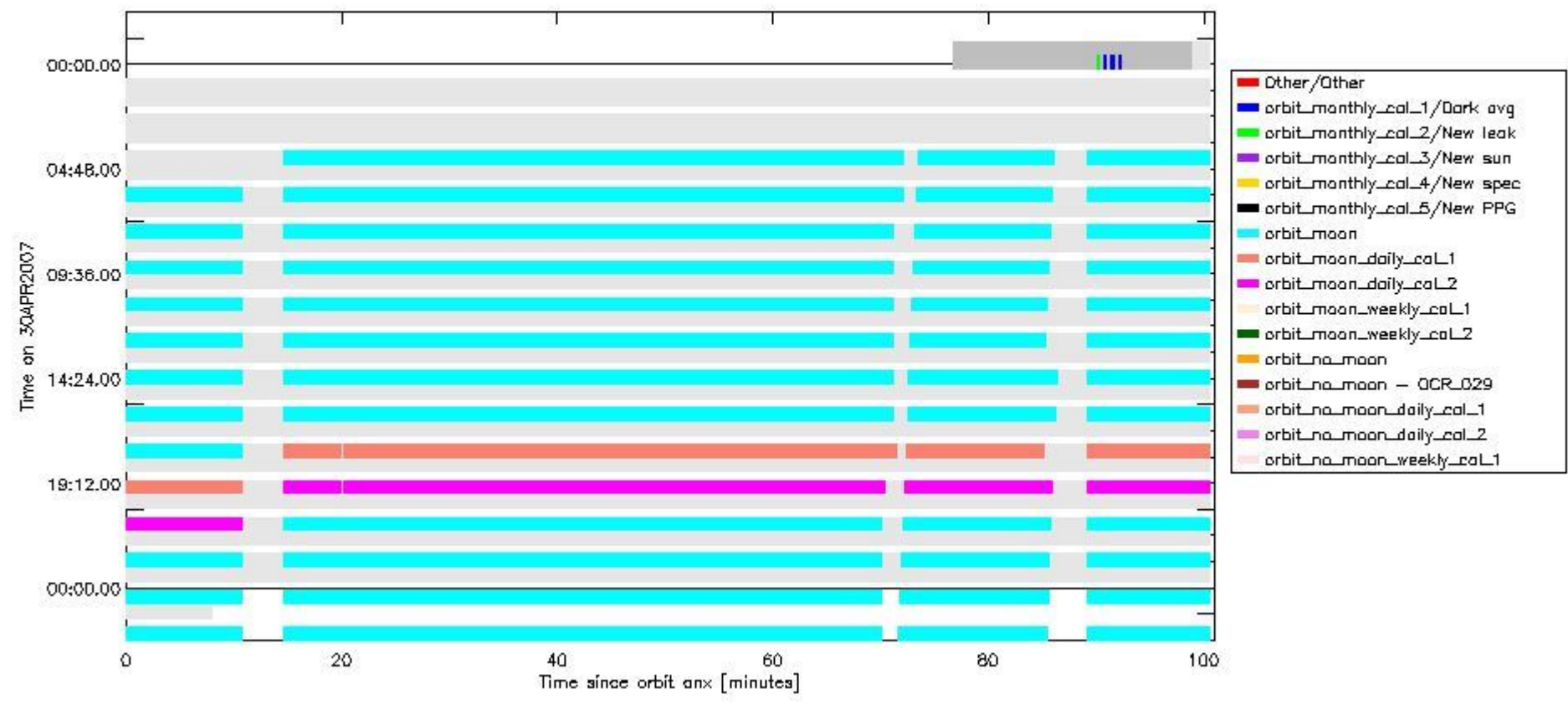
sciamachy_daily_report_level1_SCIA_6_02_N_20070430_31.PNG

1.4 DMOP execution monitoring

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.

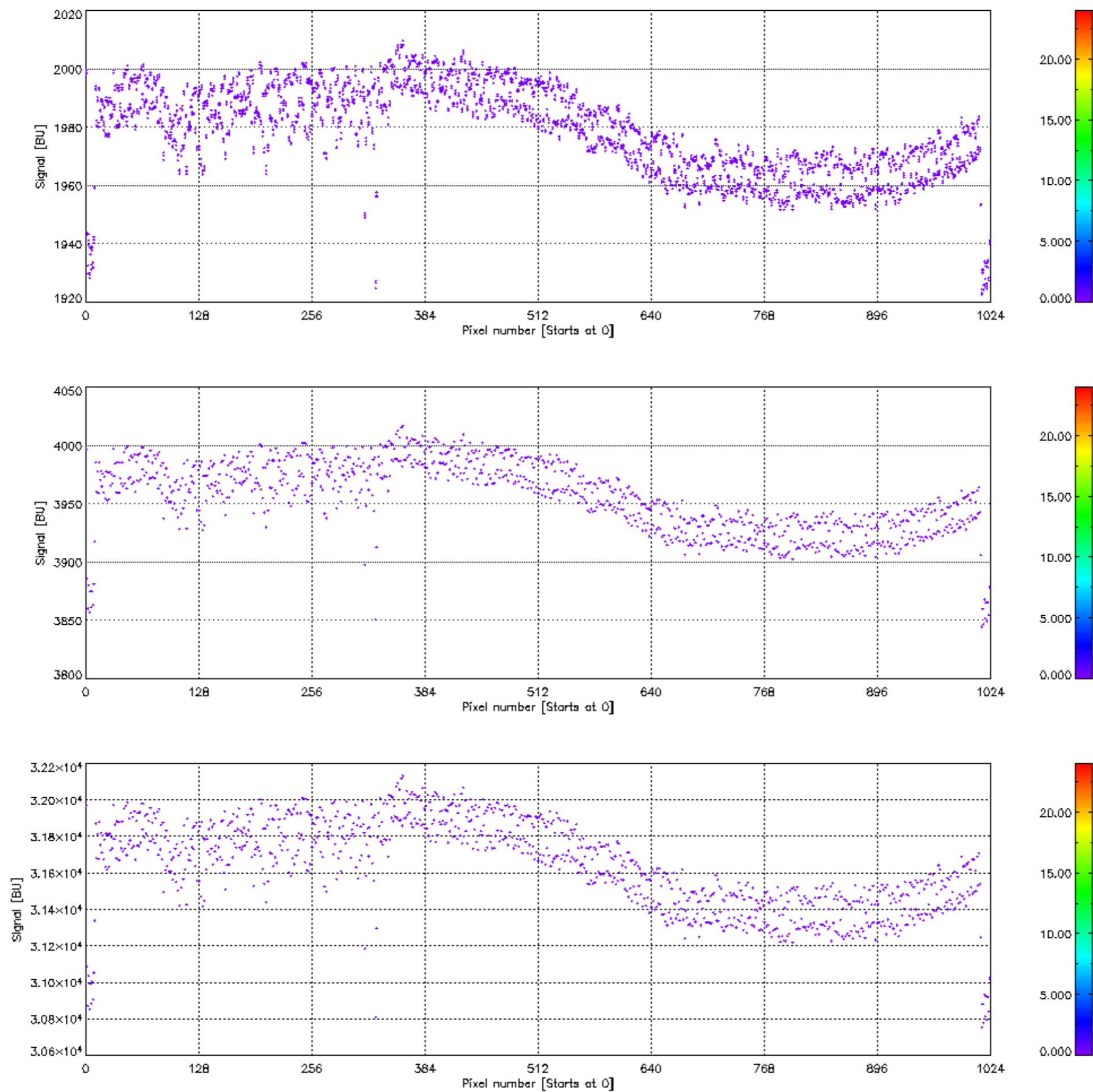
The following plot gives an overview of planned activities and actual special measurements in the Level 1 products. The planning is taken from the DMOP files, and interpreted using information from OSDF files.

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 30APR2007.
 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.

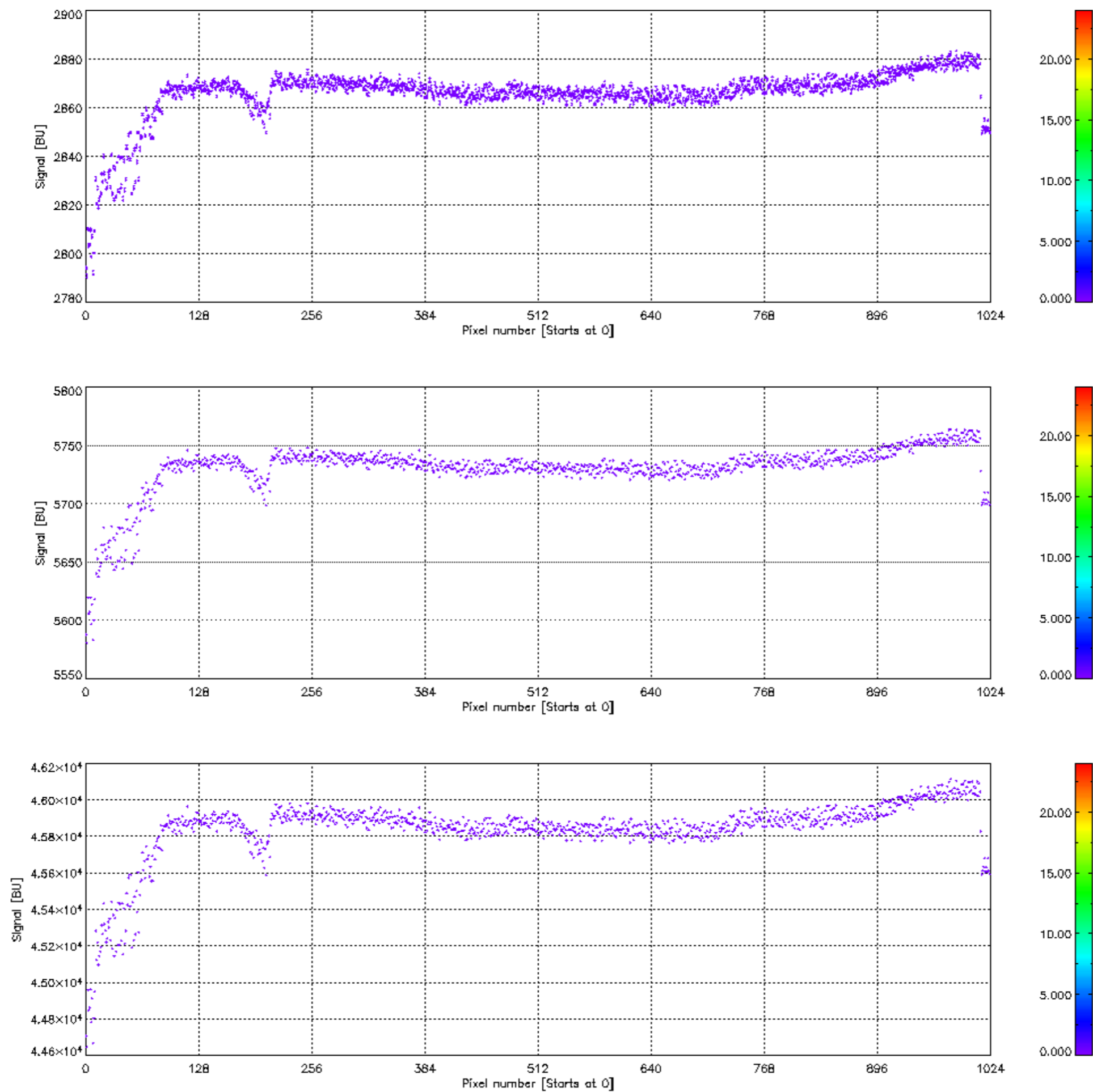


sciamachy_daily_report_level1_SCIA_6_02_N_20070430_32.PNG

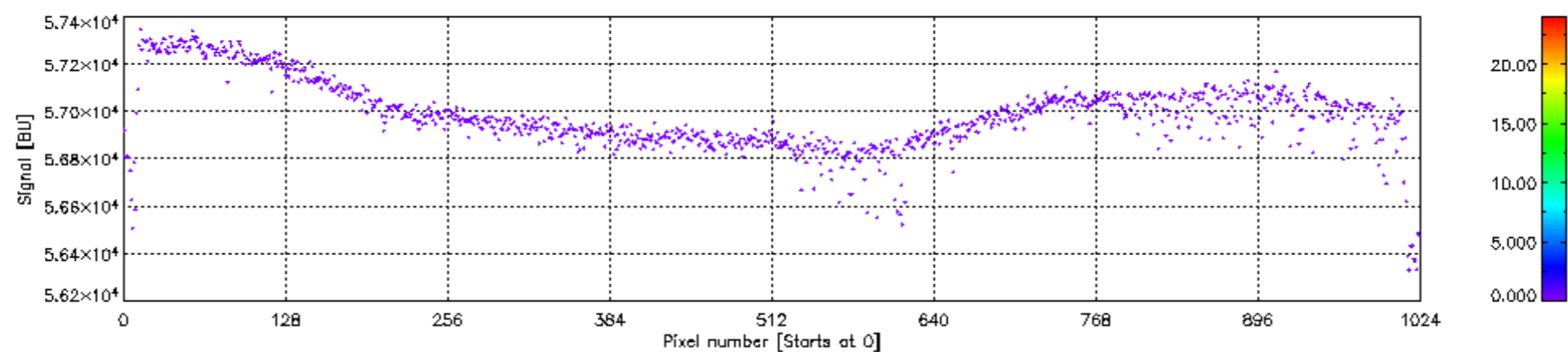
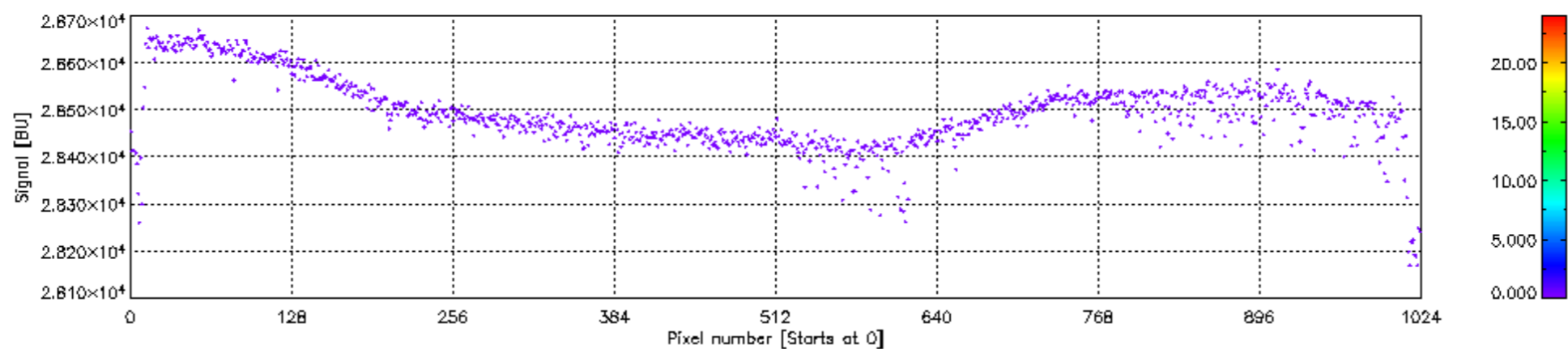
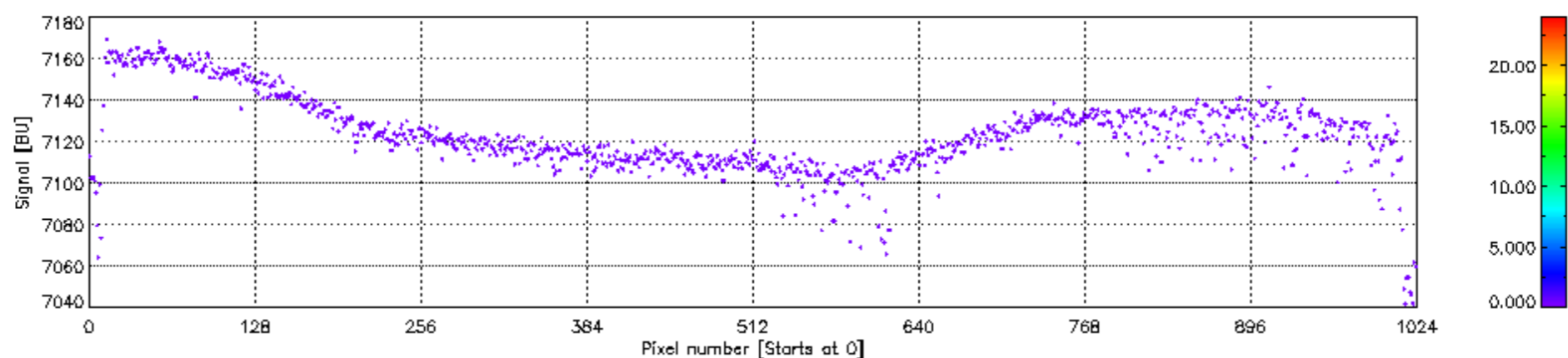
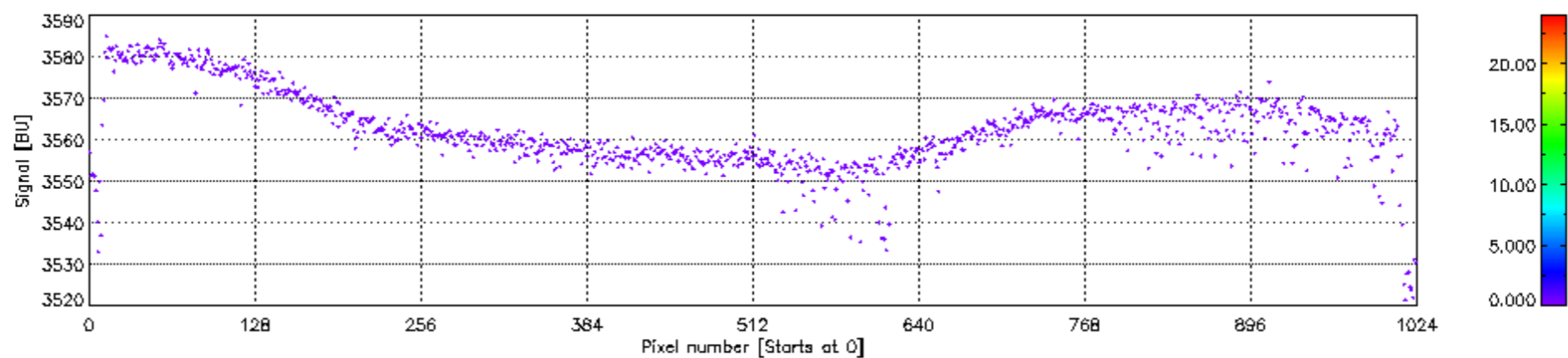
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 1 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



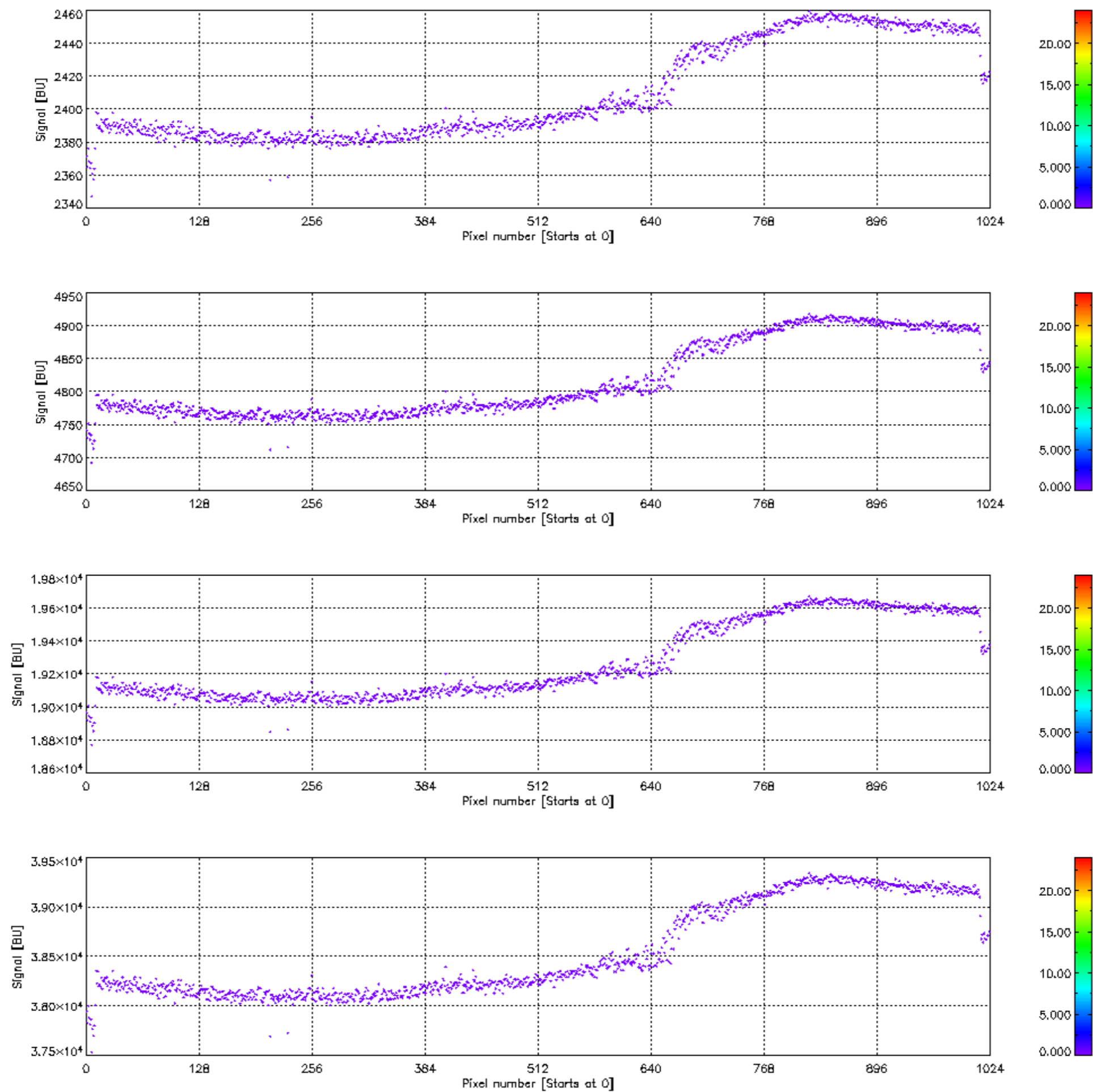
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 2 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



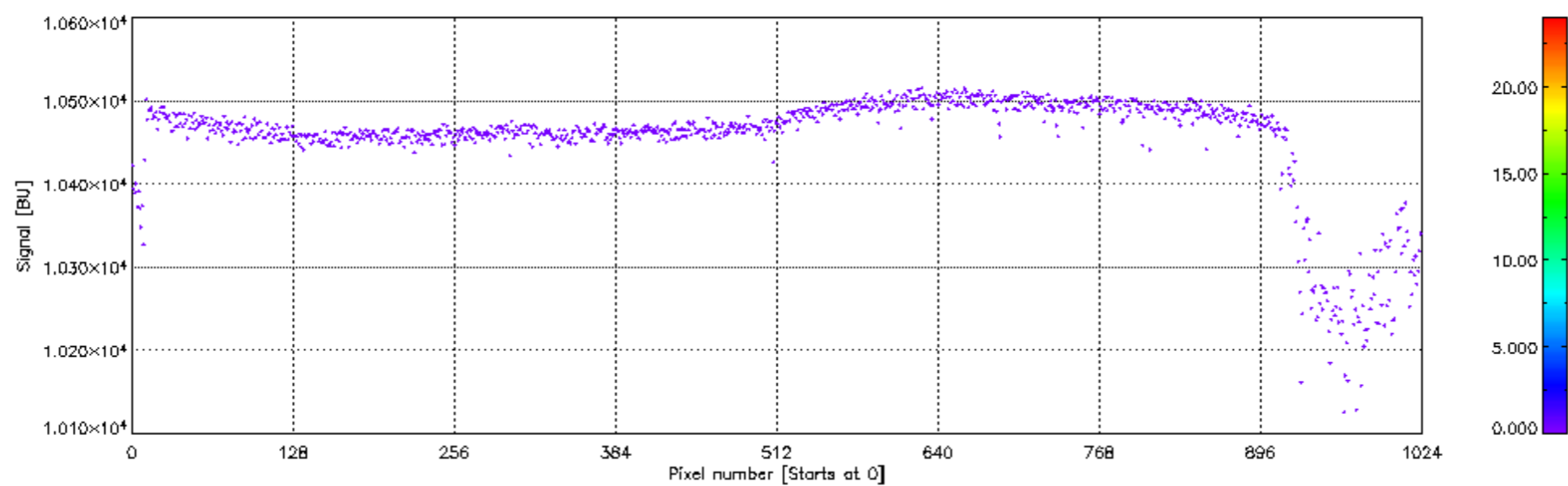
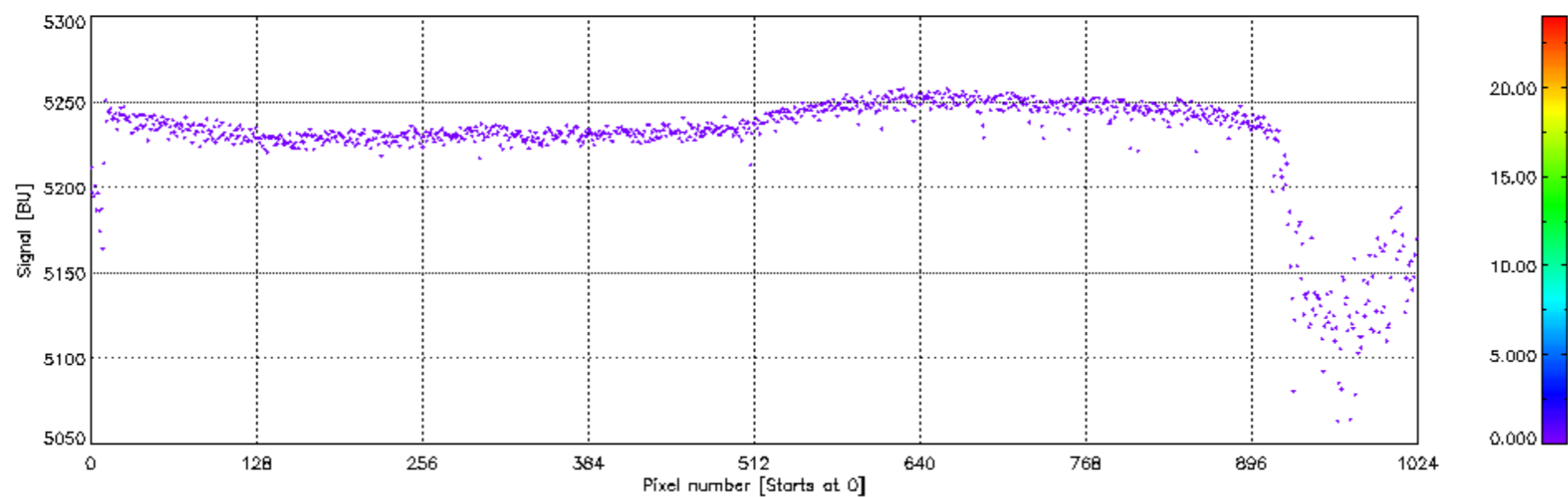
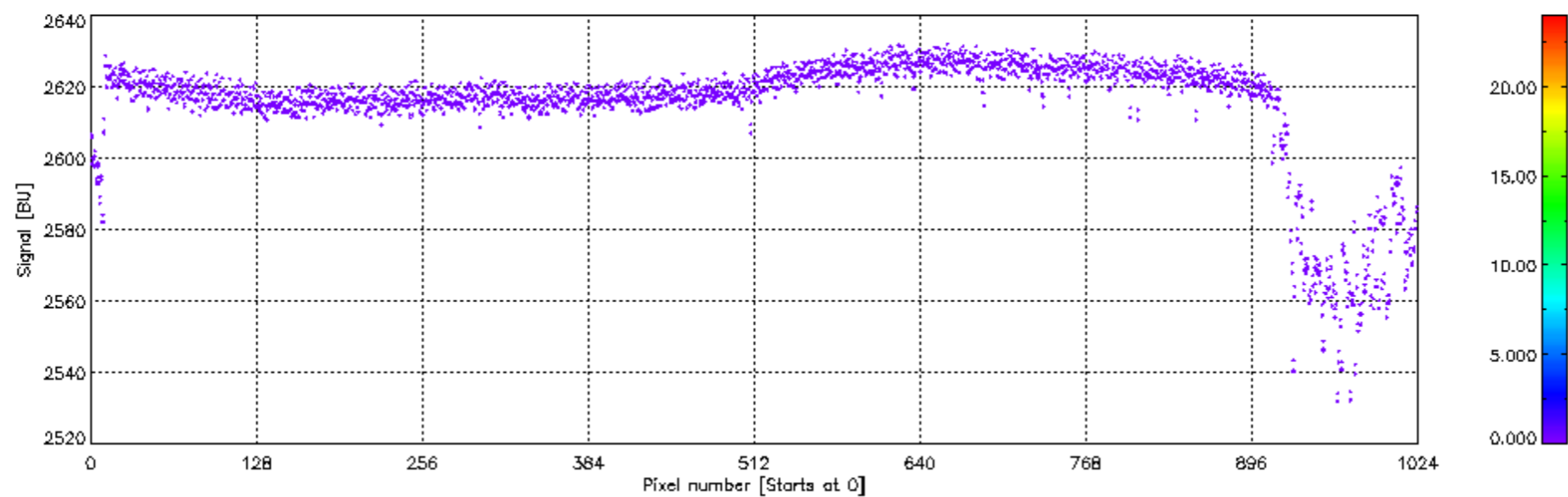
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 3 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



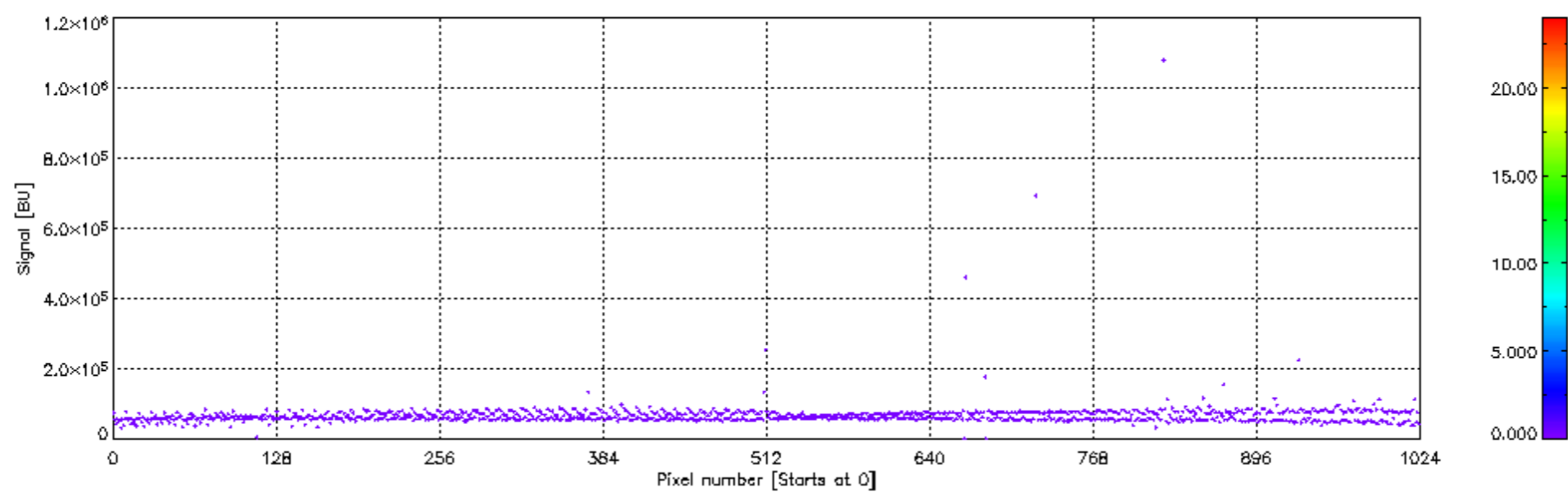
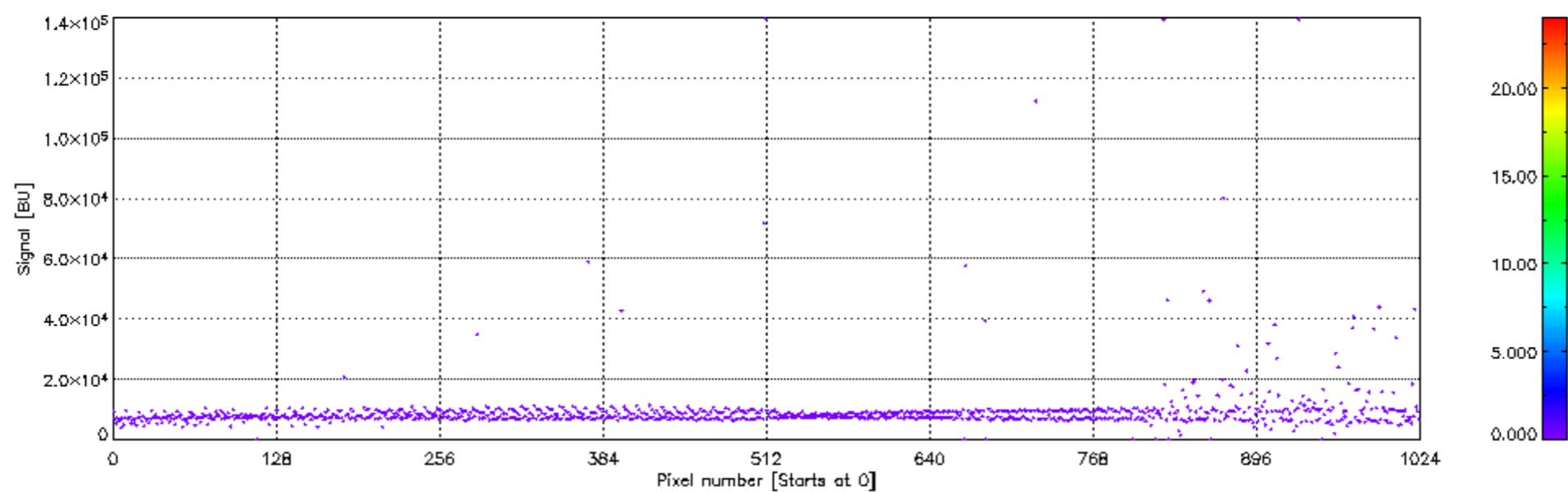
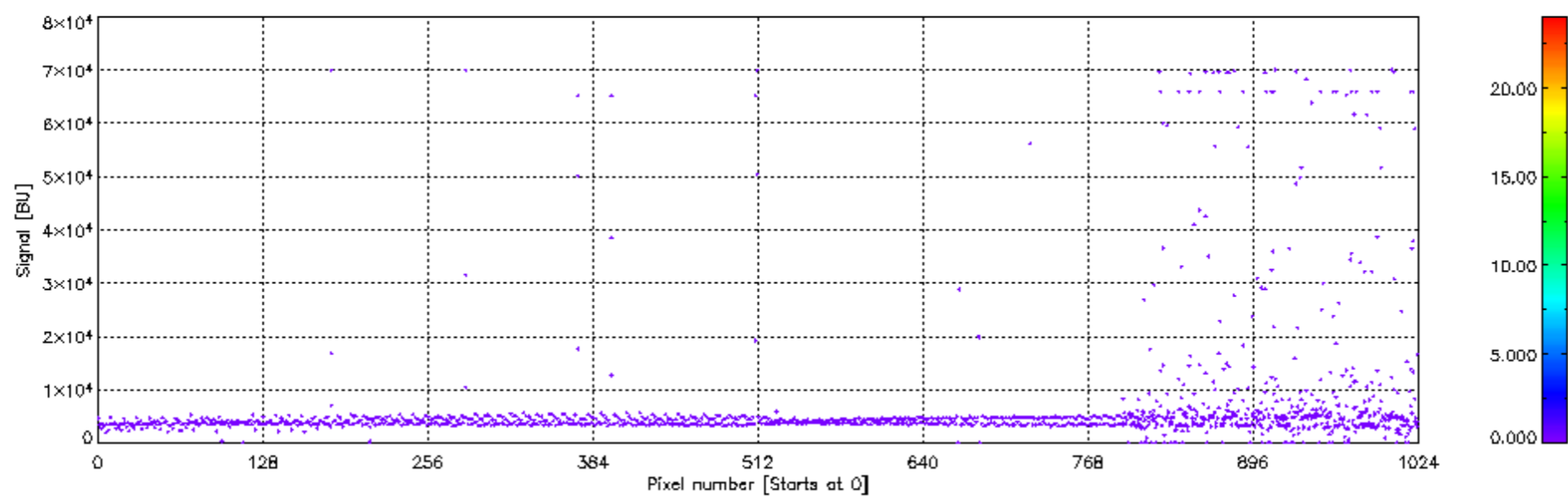
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 4 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



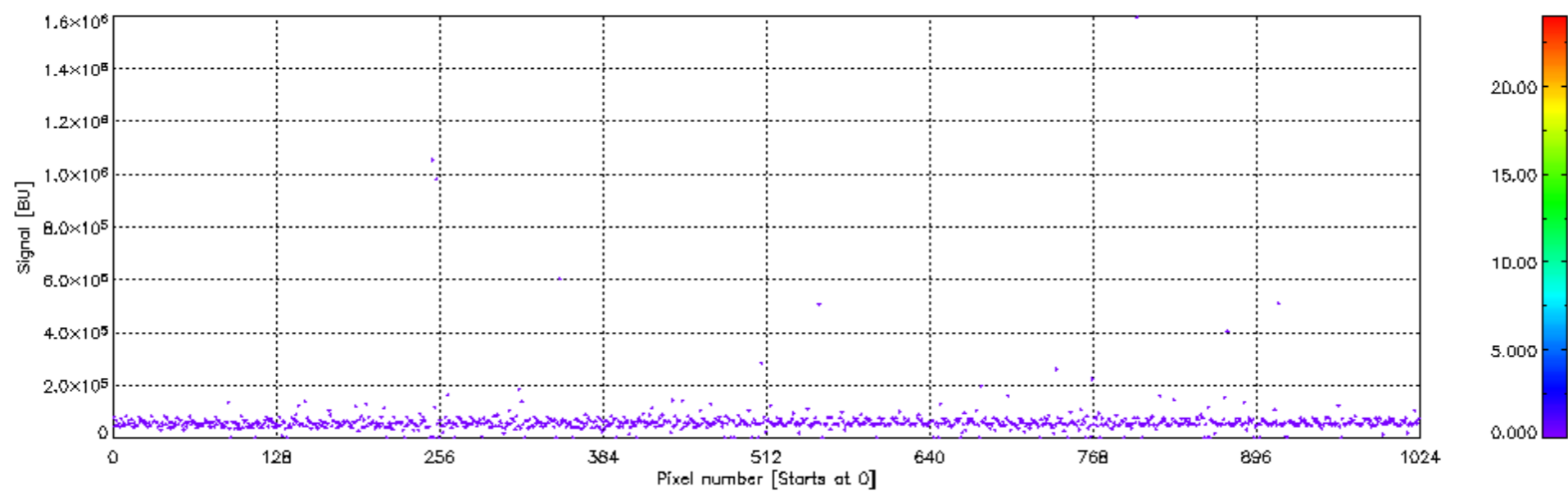
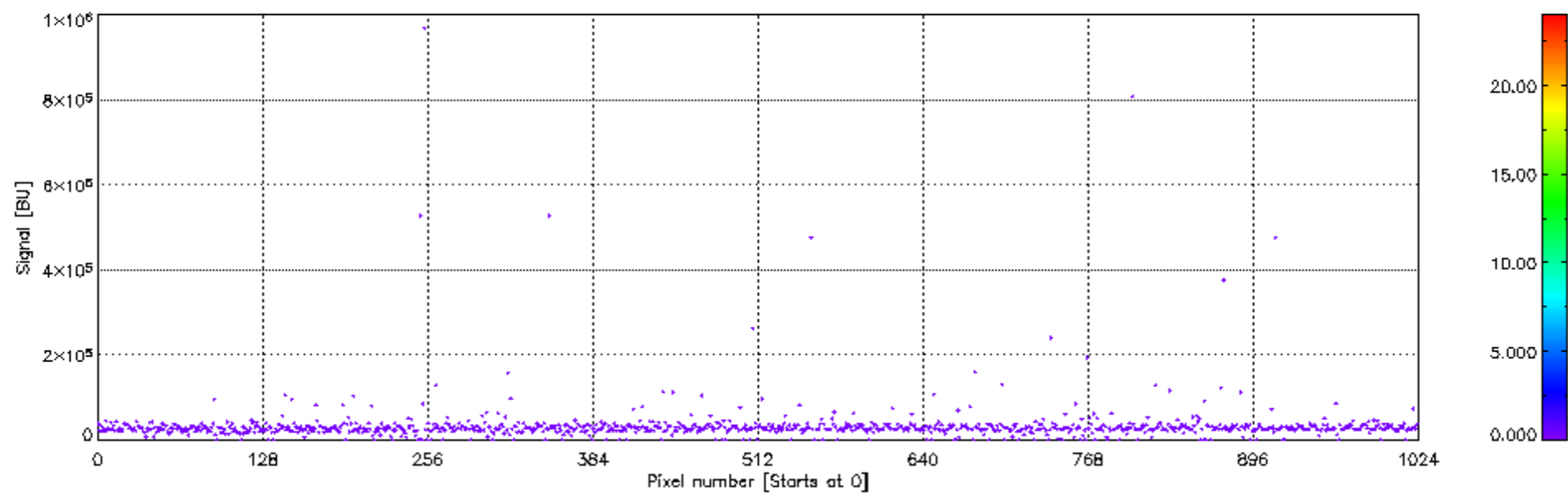
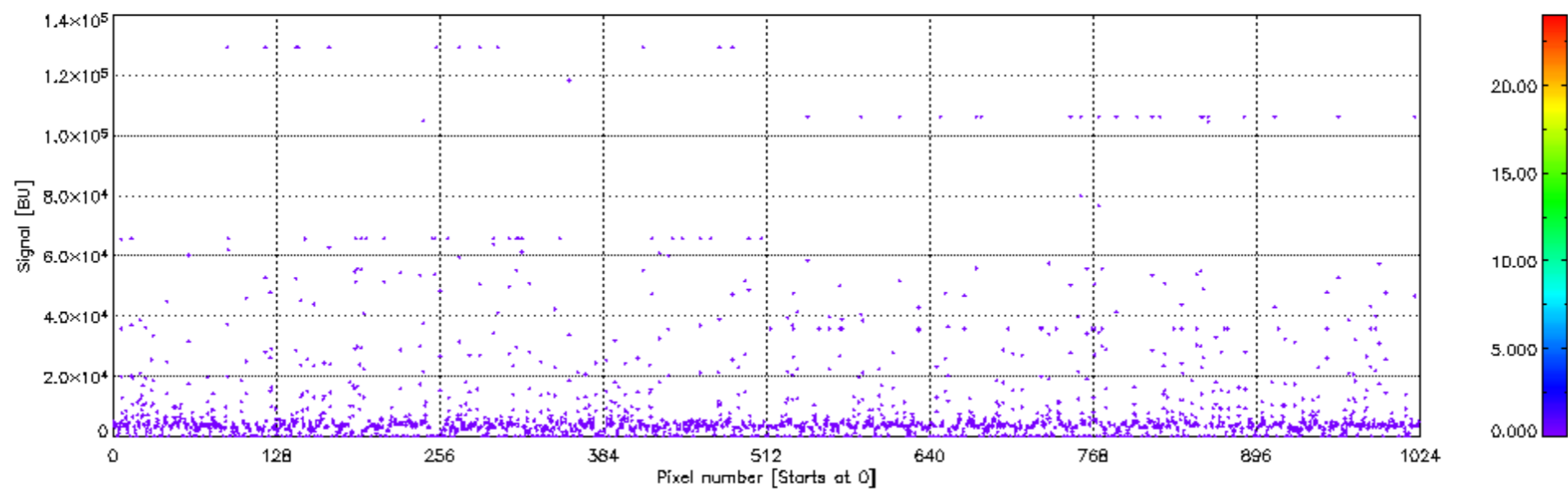
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 5 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



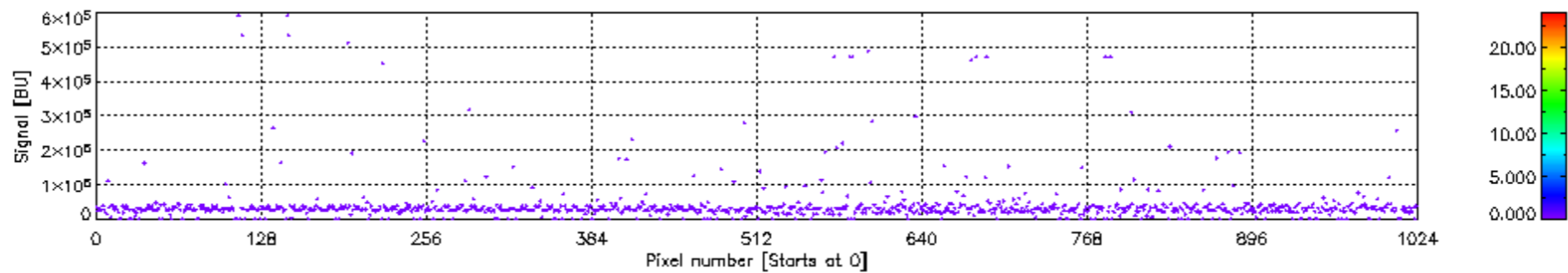
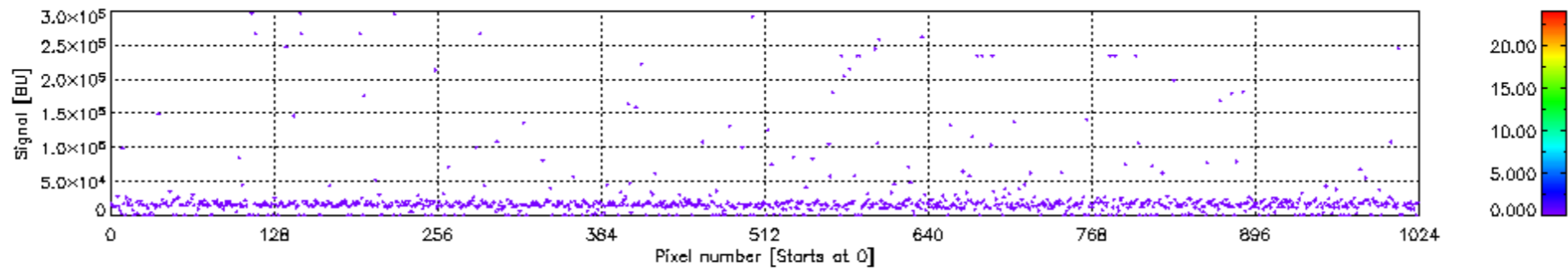
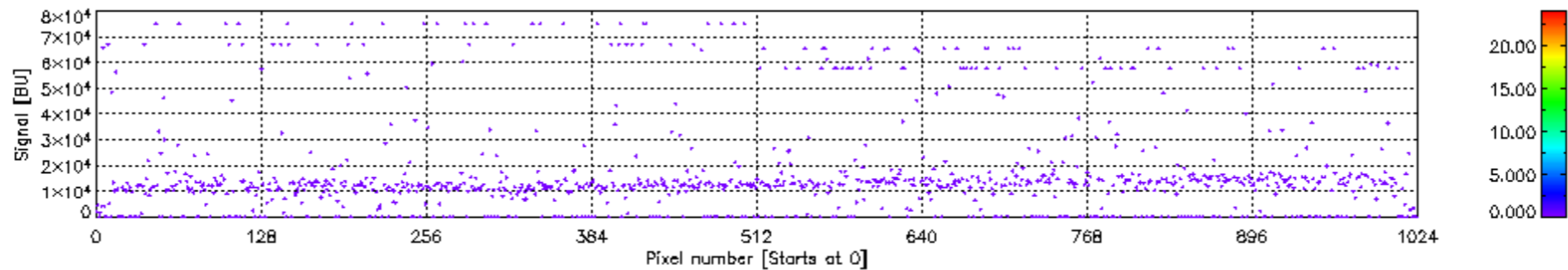
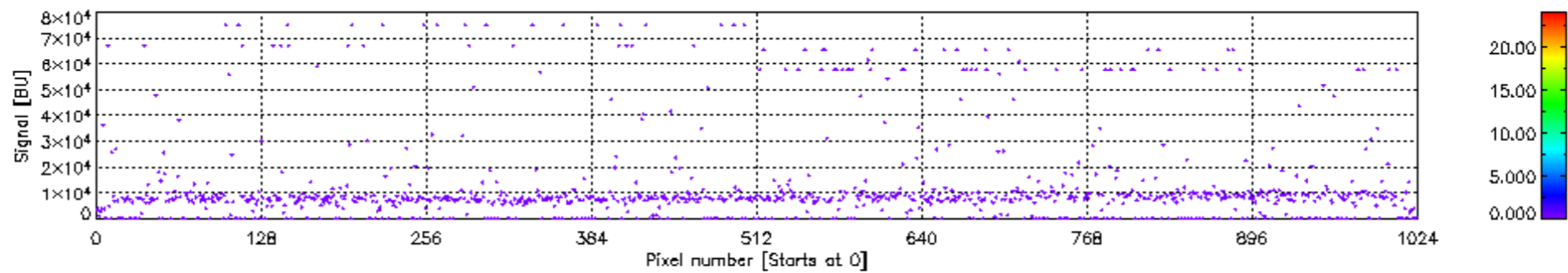
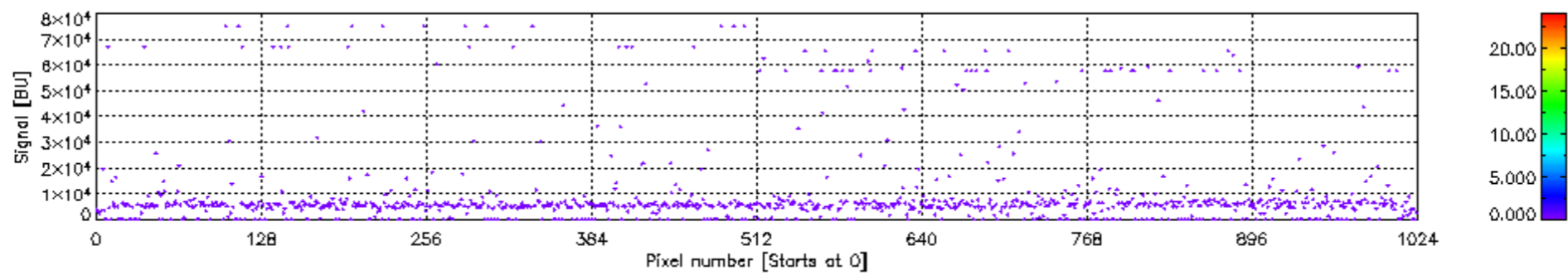
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 6 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00



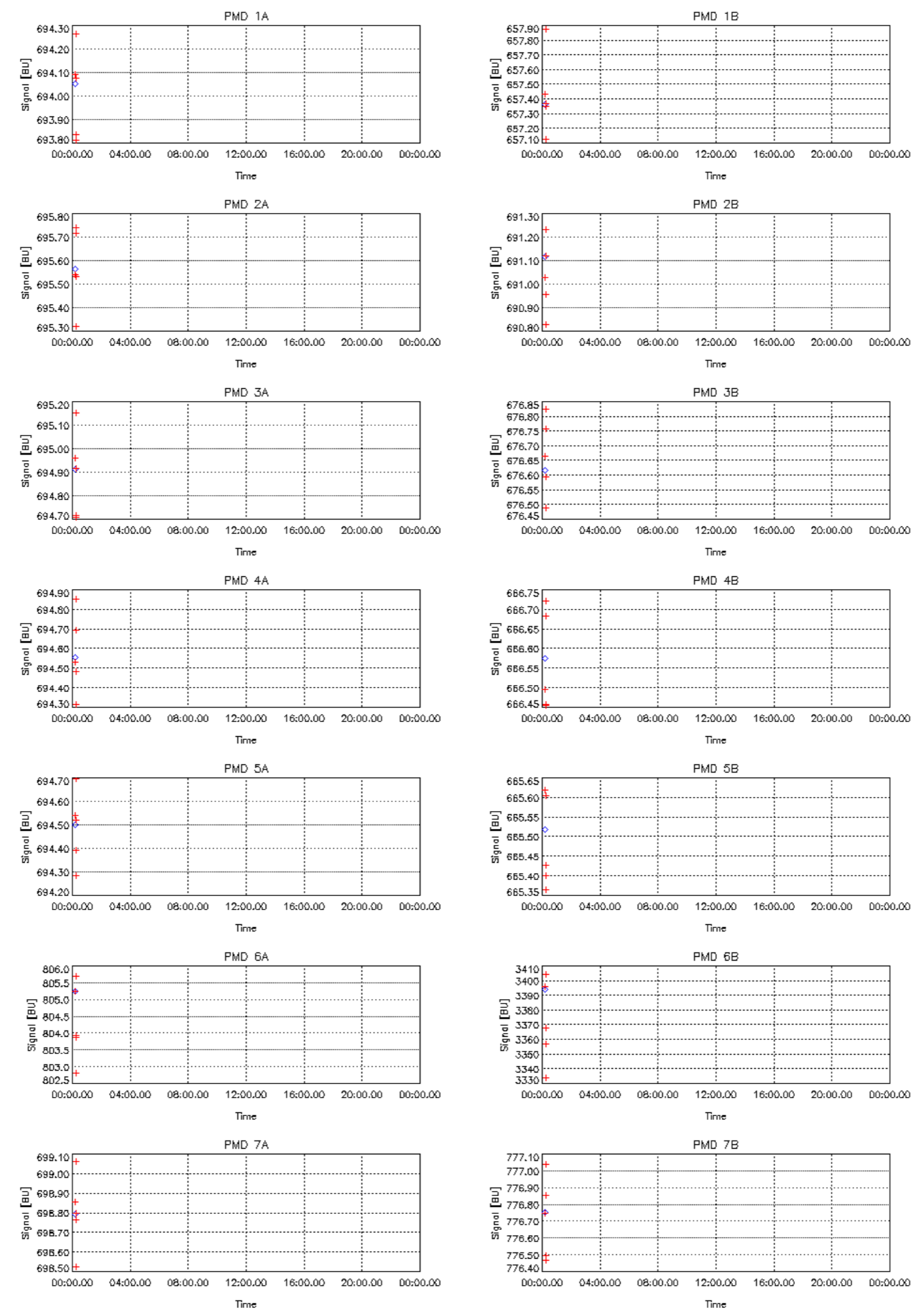
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 7 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00

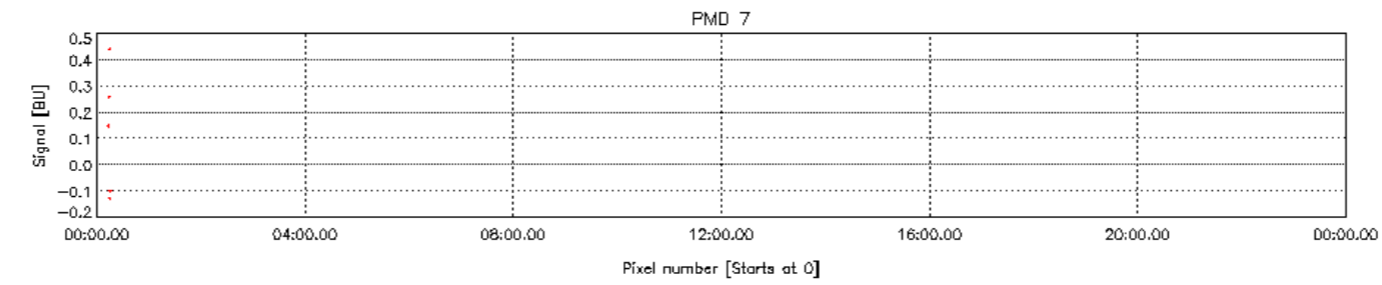
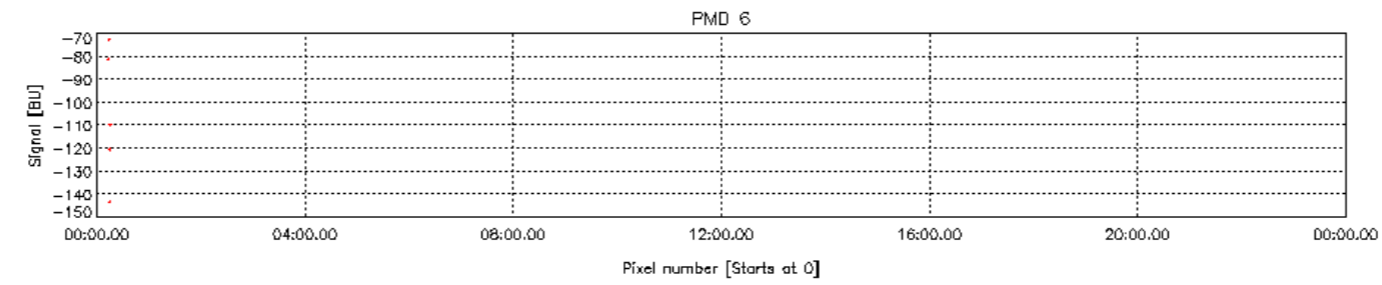
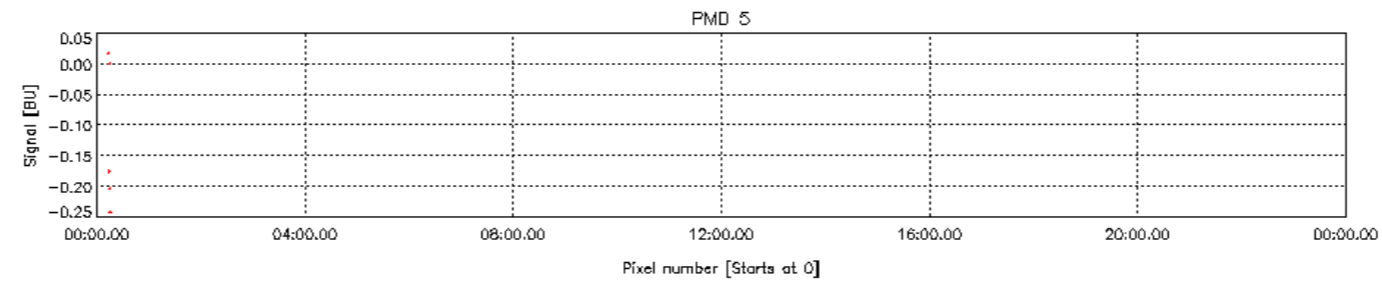
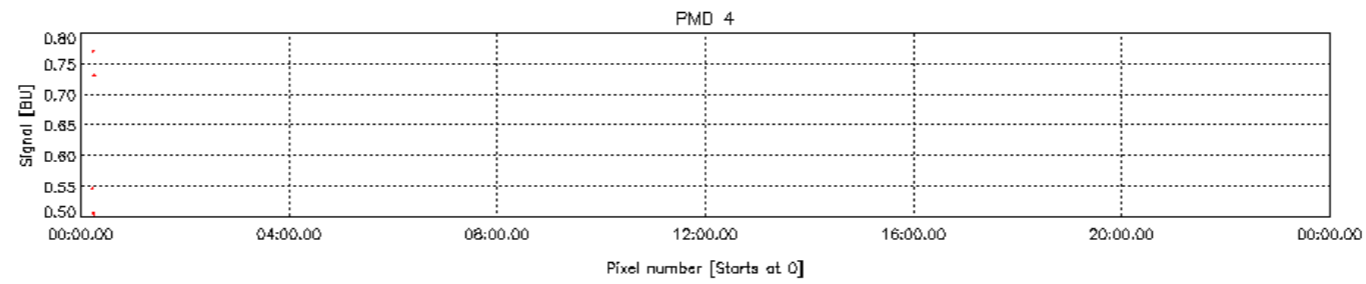
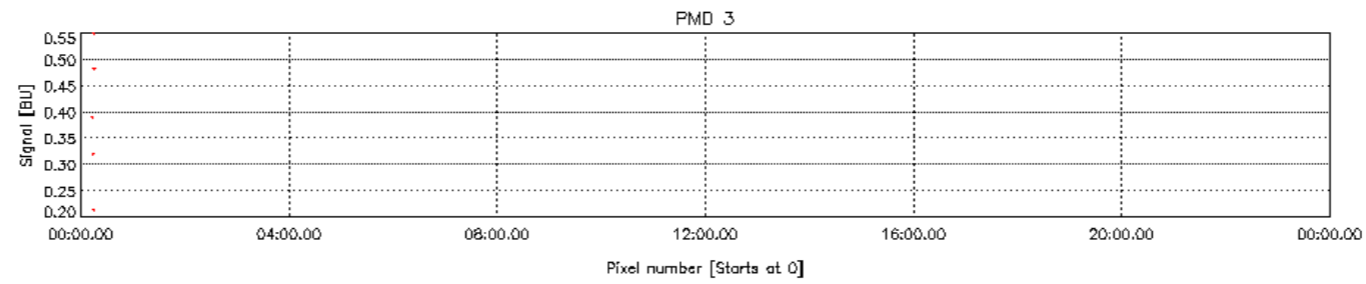
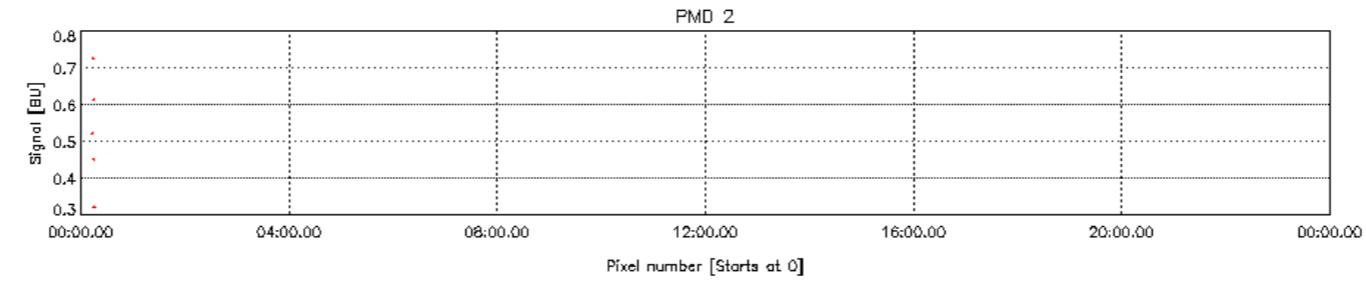
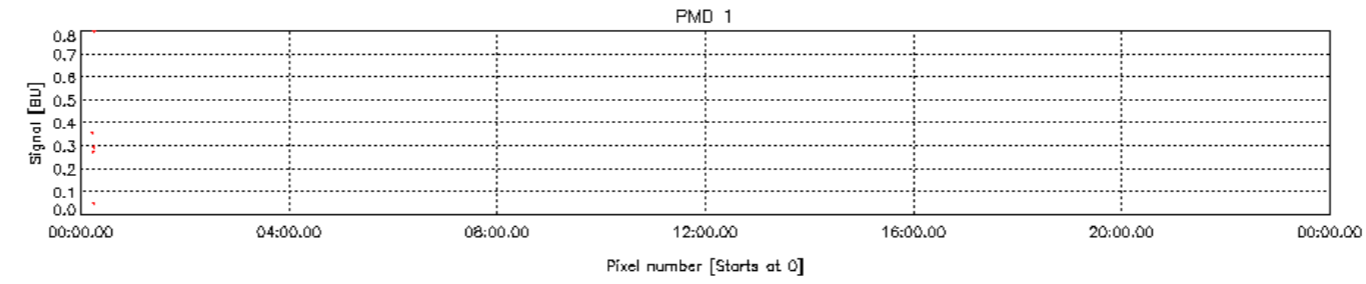


Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 8 on 30APR2007.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 30APR2007 00:00:00

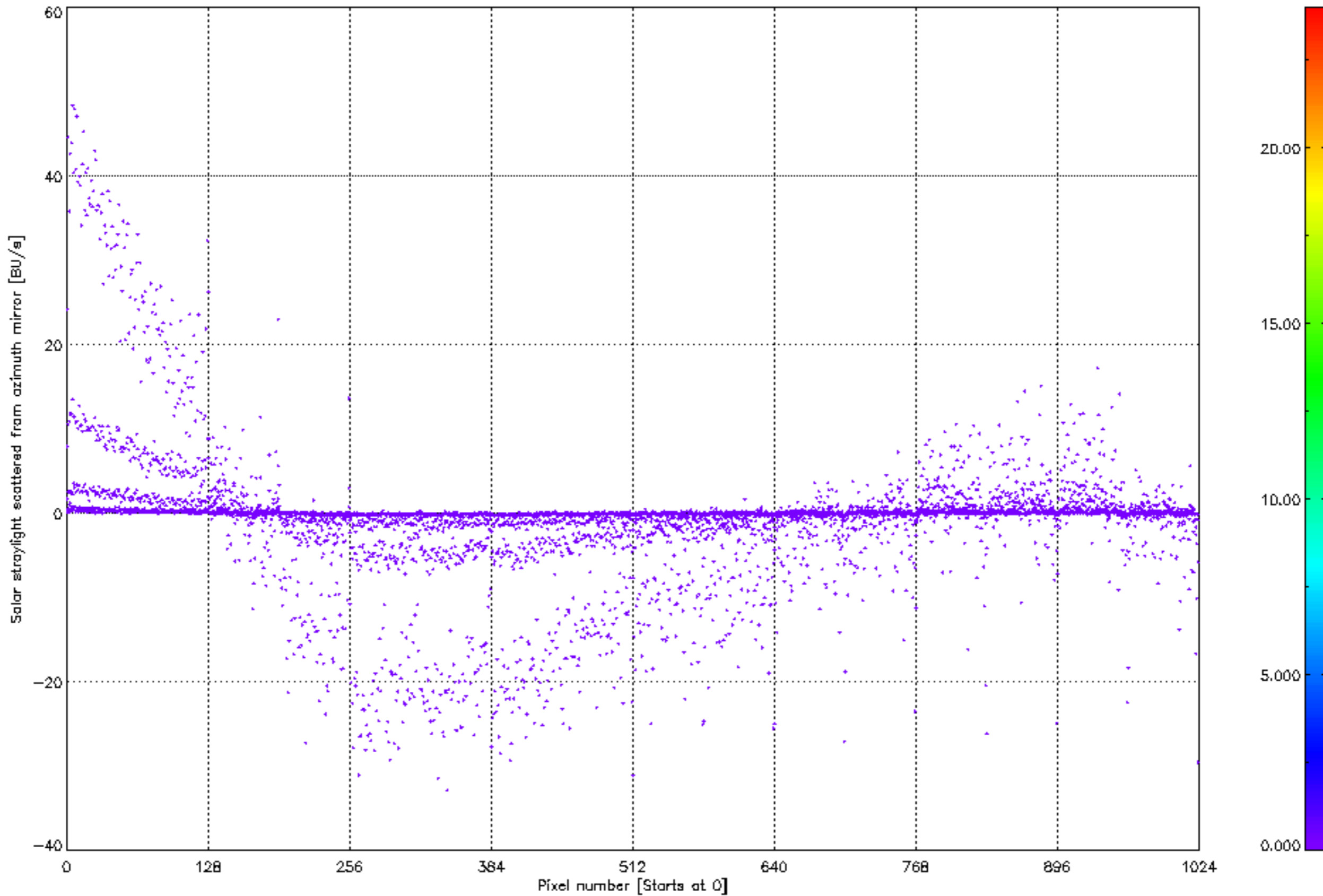


Plots of SCINL1P_DARAVE_pmd_dark_offset vs time on 30APR2007 (red).
 New leakage current offset data is given in blue for comparison.

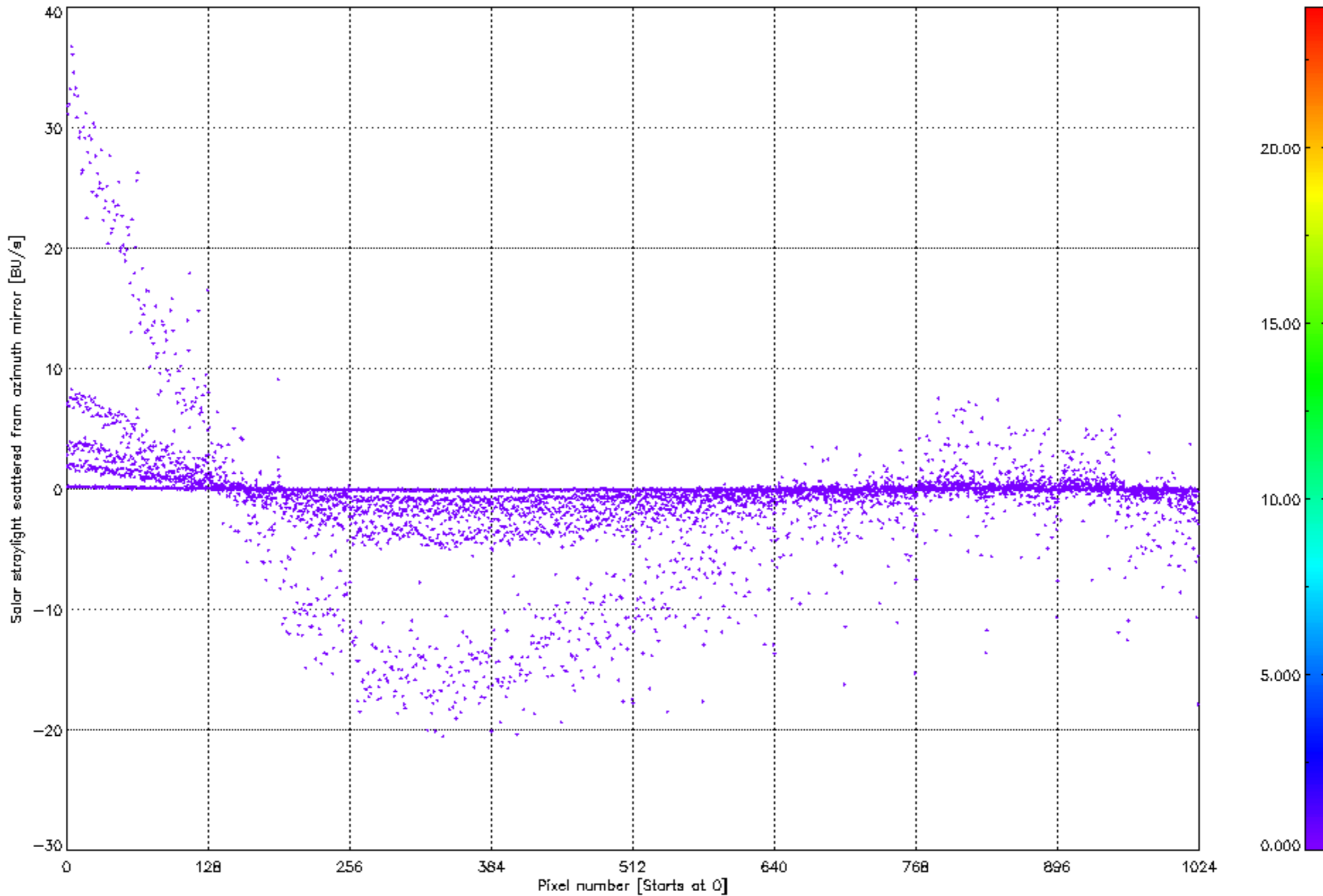




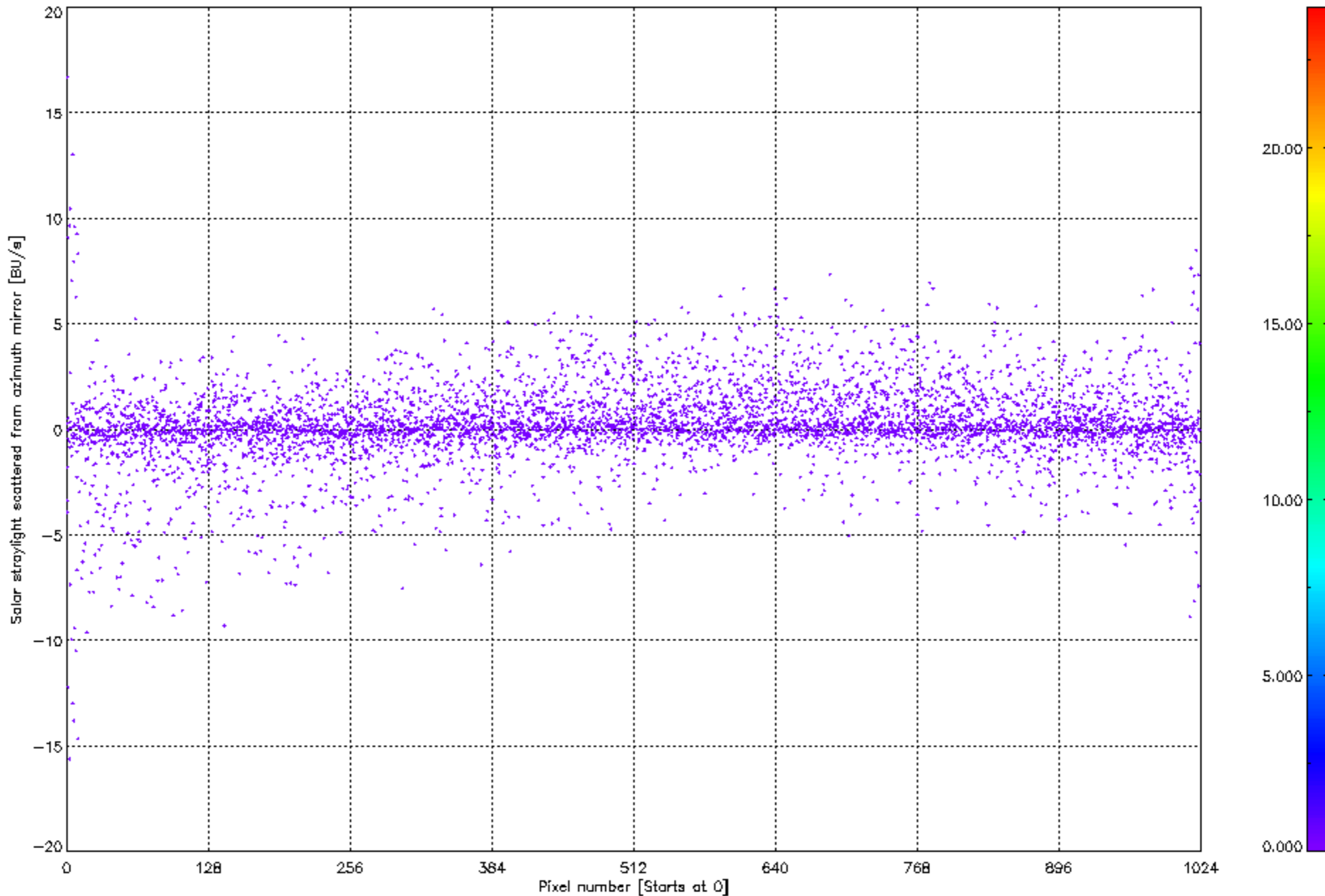
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 1
 Colours indicate the time in hours since 30APR2007 00:00:00



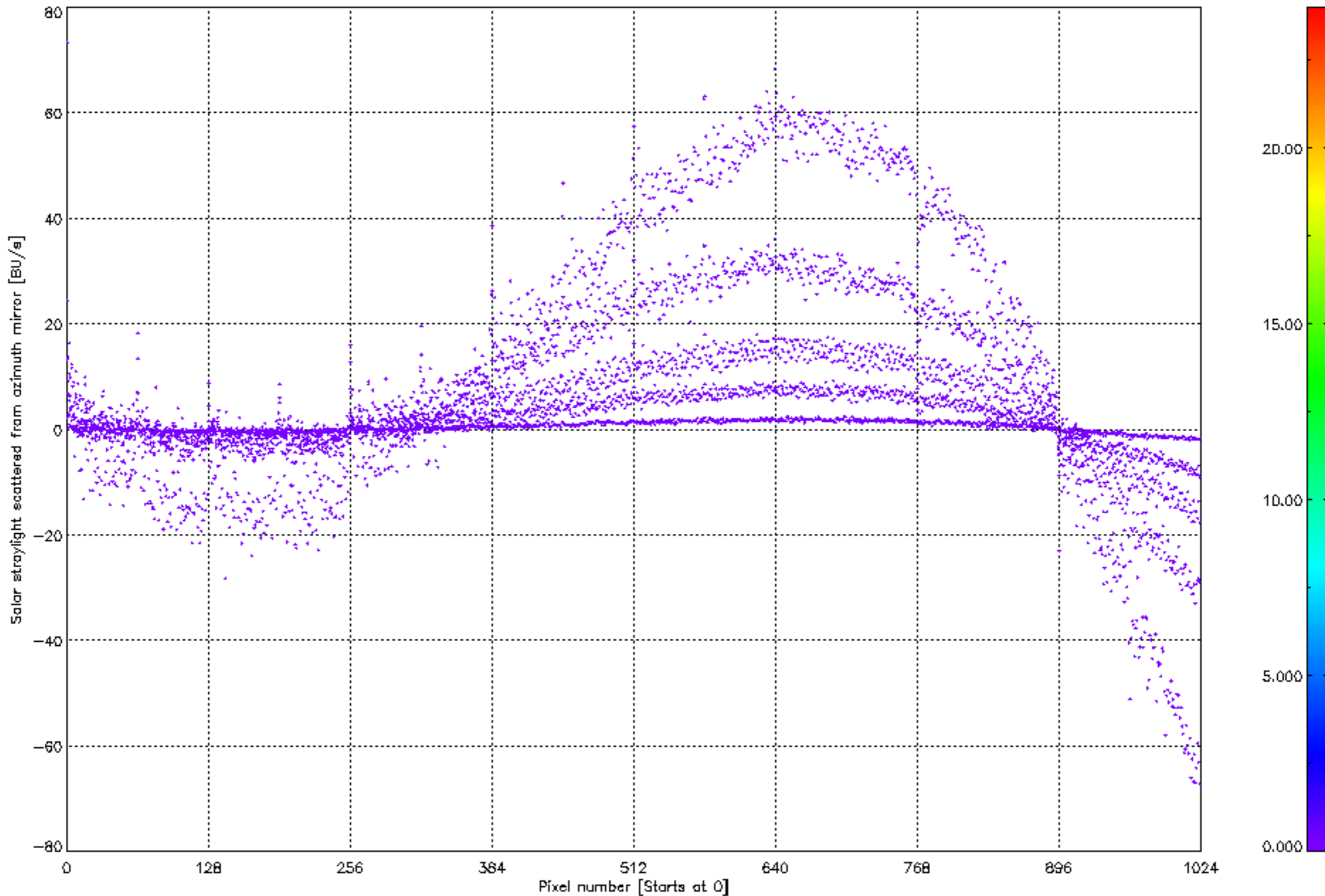
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 2
 Colours indicate the time in hours since 30APR2007 00:00:00



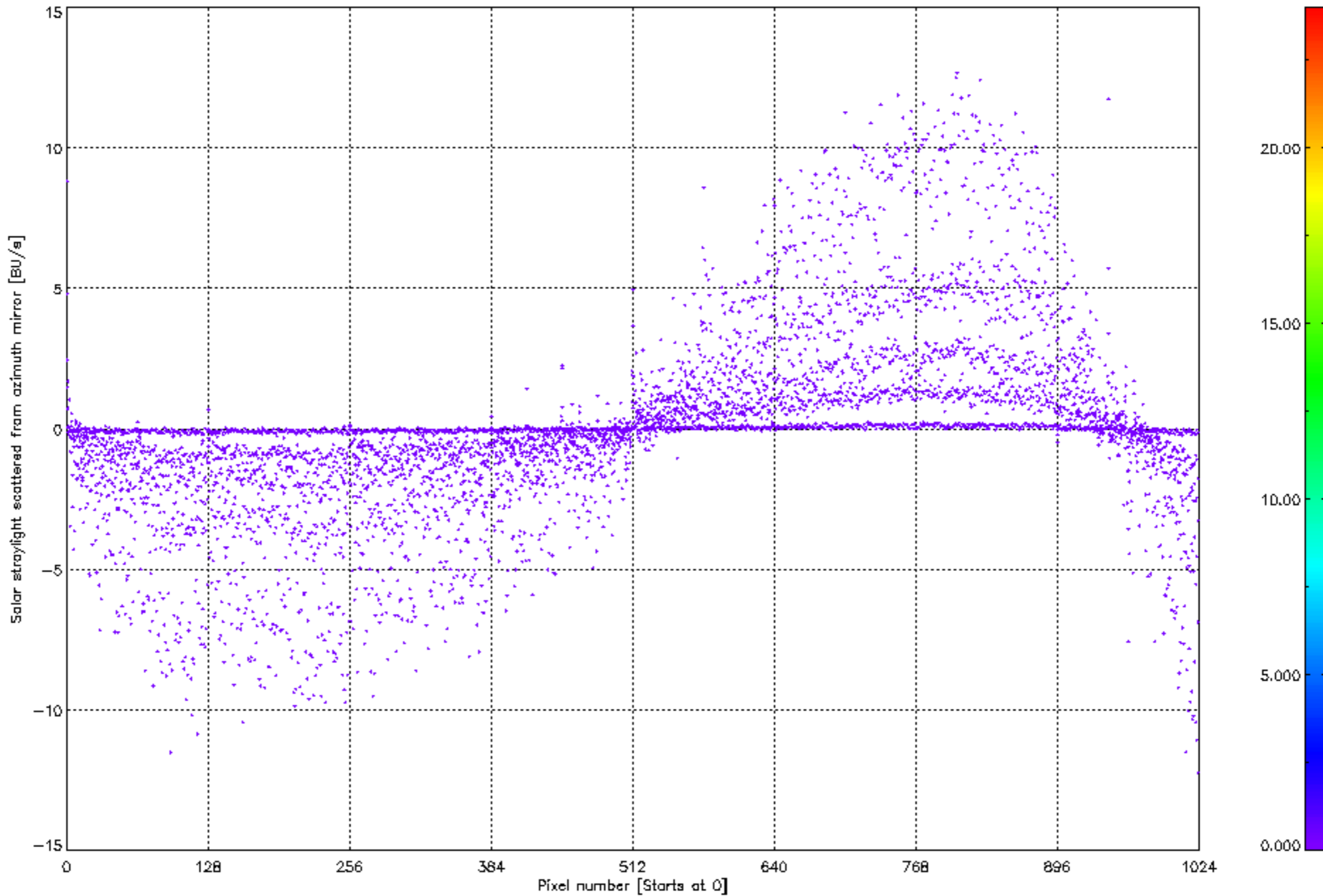
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 3
 Colours indicate the time in hours since 30APR2007 00:00:00



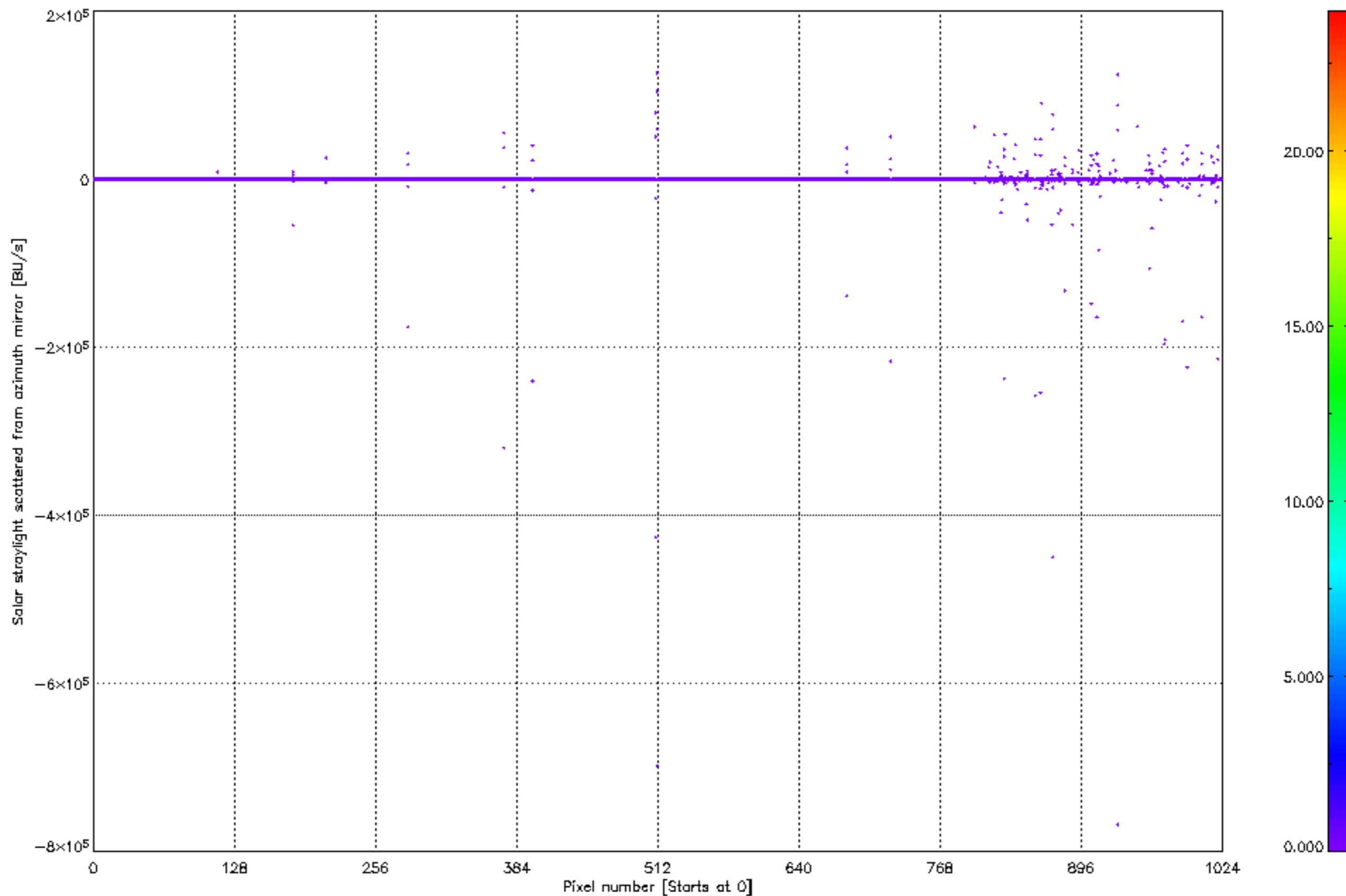
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 4
 Colours indicate the time in hours since 30APR2007 00:00:00



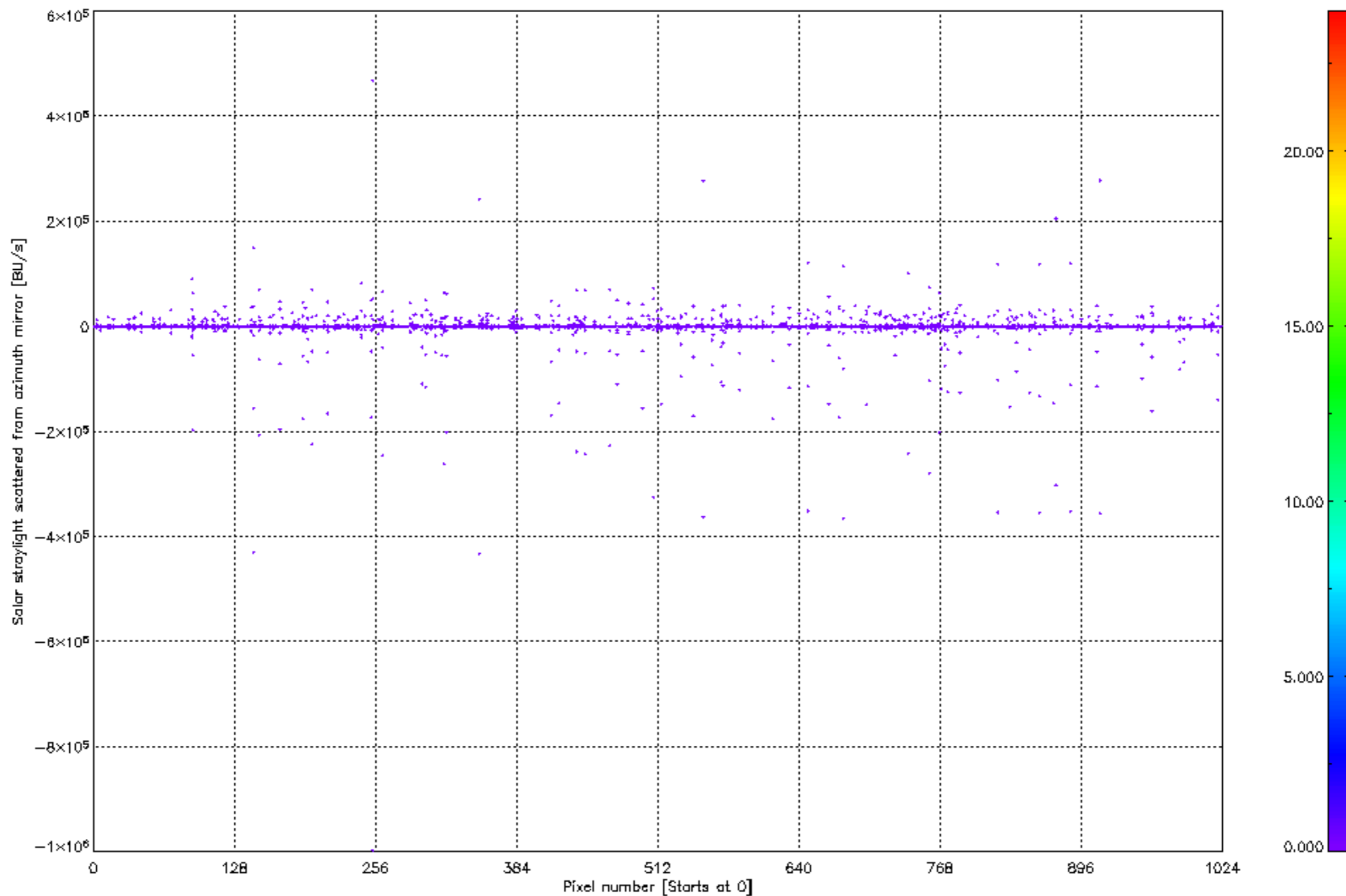
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 5
 Colours indicate the time in hours since 30APR2007 00:00:00



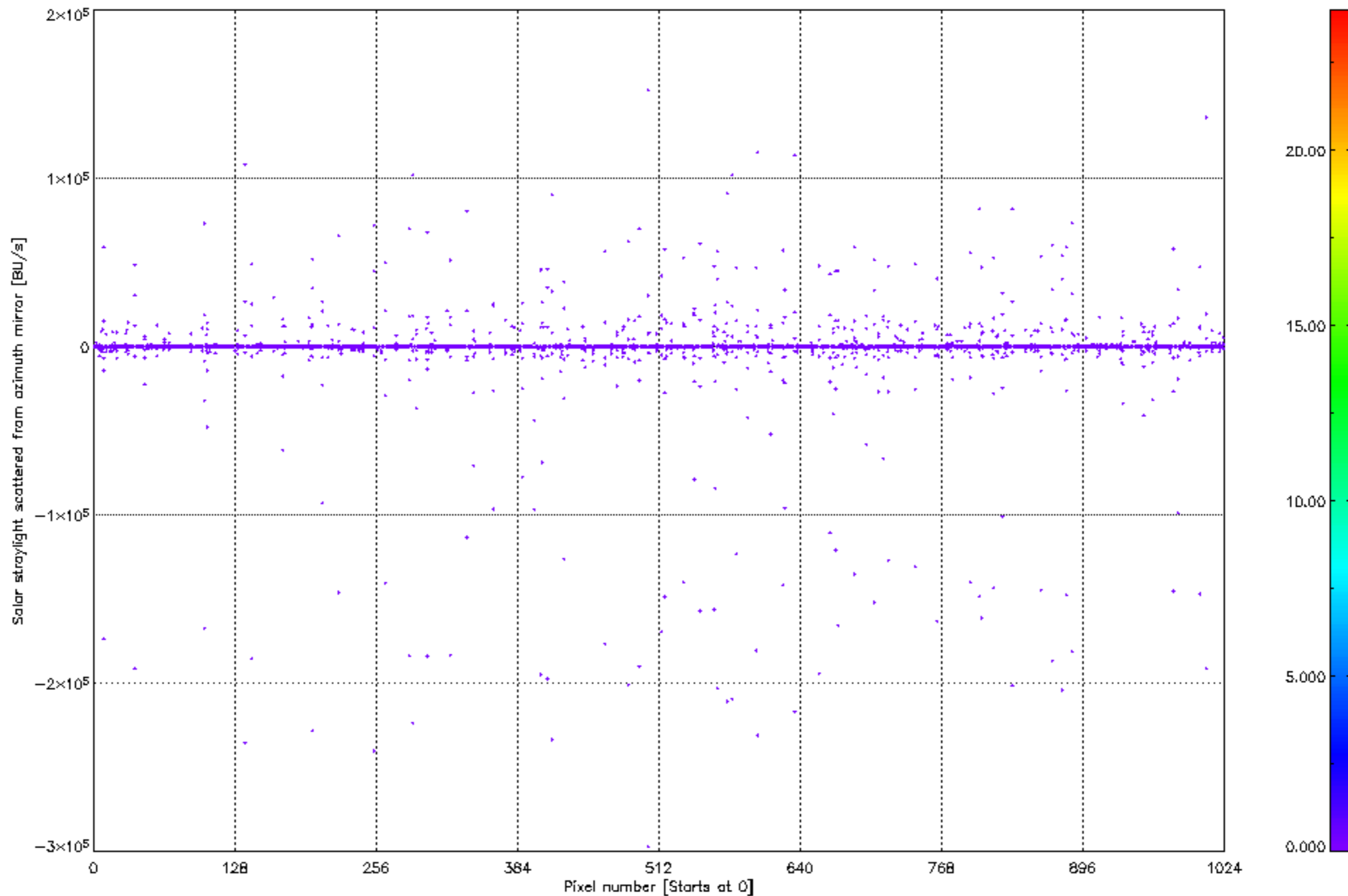
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 6
 Colours indicate the time in hours since 30APR2007 00:00:00

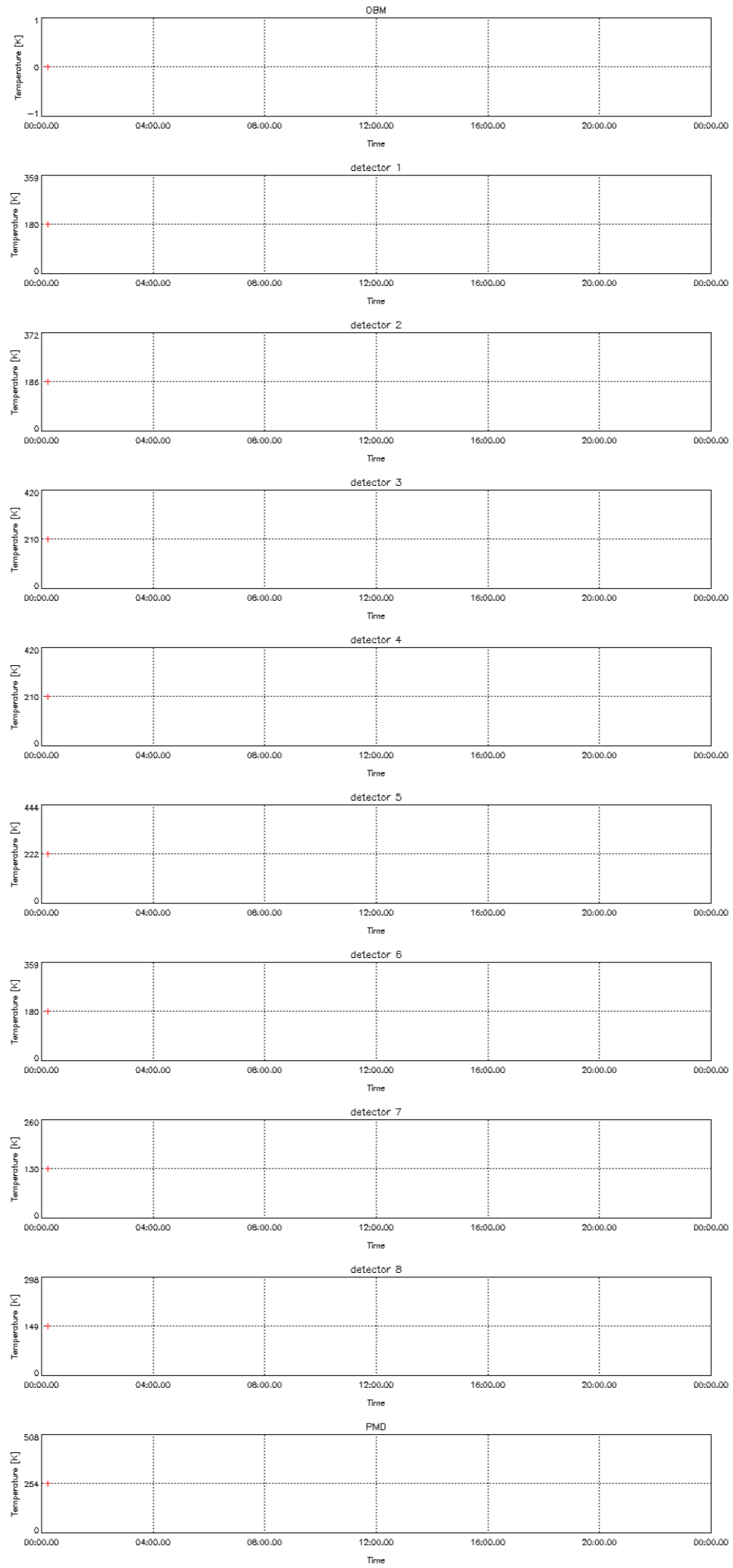


Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 7
 Colours indicate the time in hours since 30APR2007 00:00:00



Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 8
 Colours indicate the time in hours since 30APR2007 00:00:00



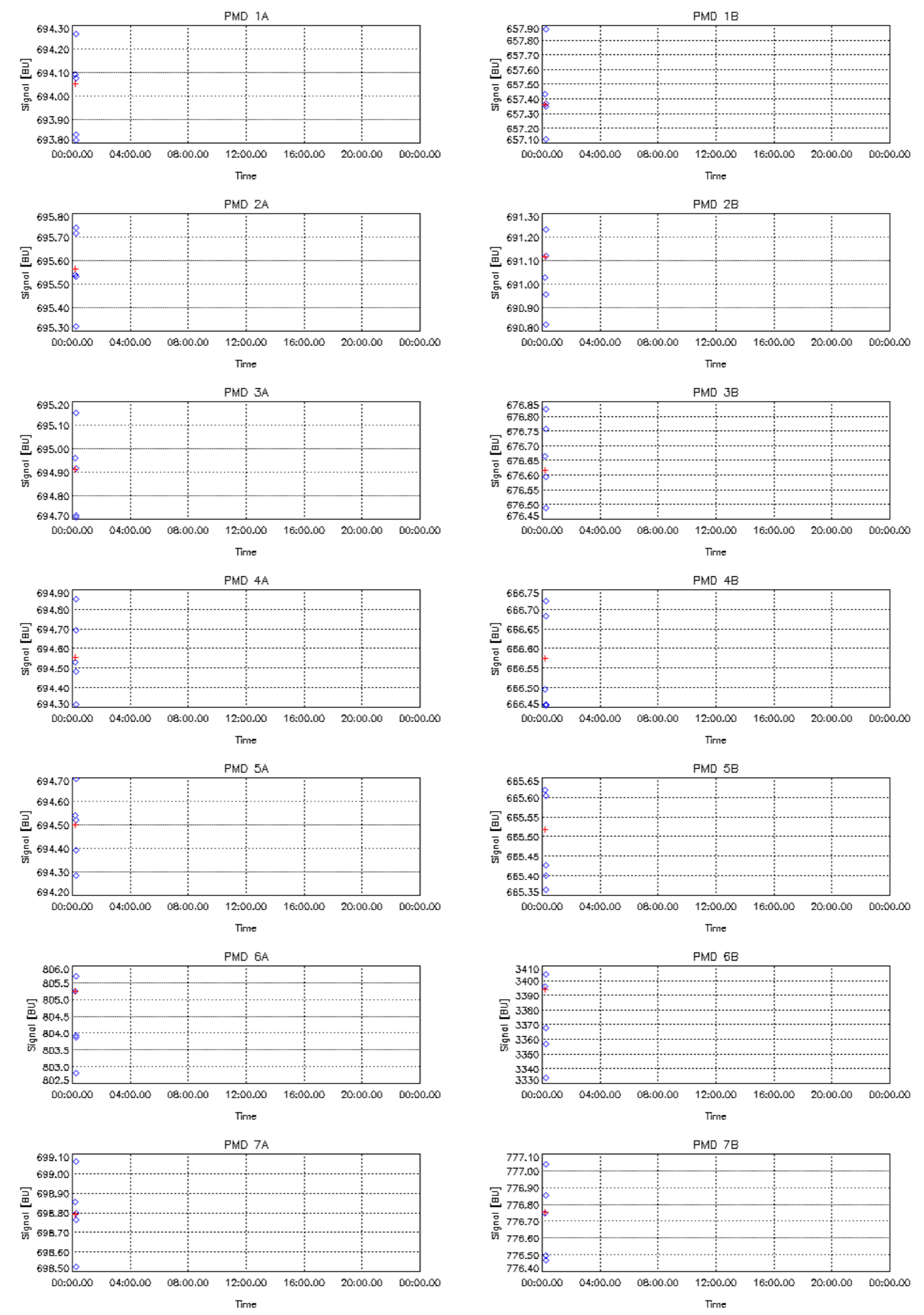


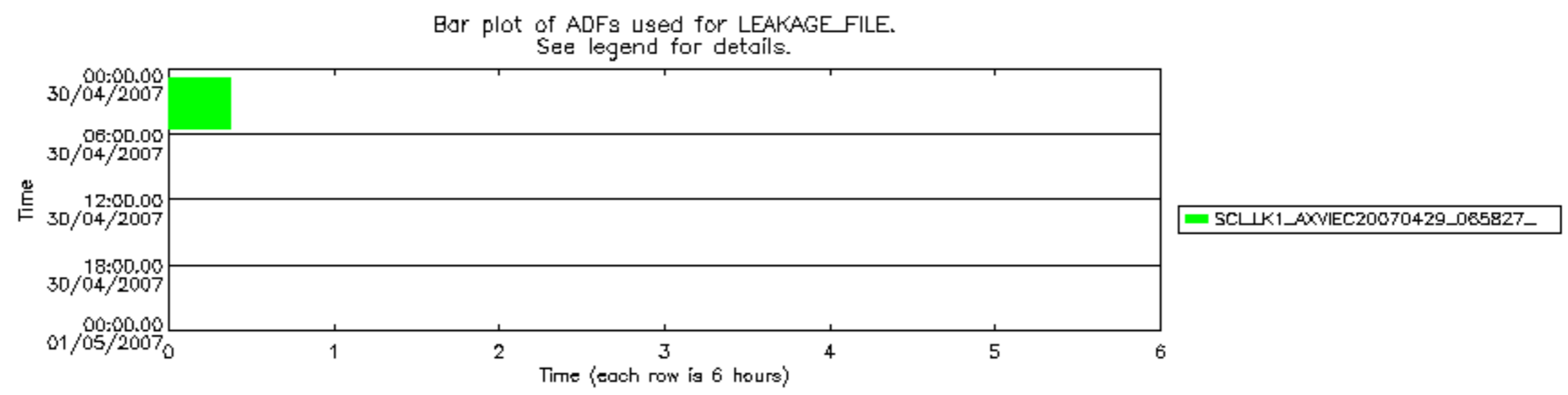
Plots of SCINL1P_NEWLEA_leak_cur for various detectors on 30APR2007.
Colours indicate the value in BU/s.

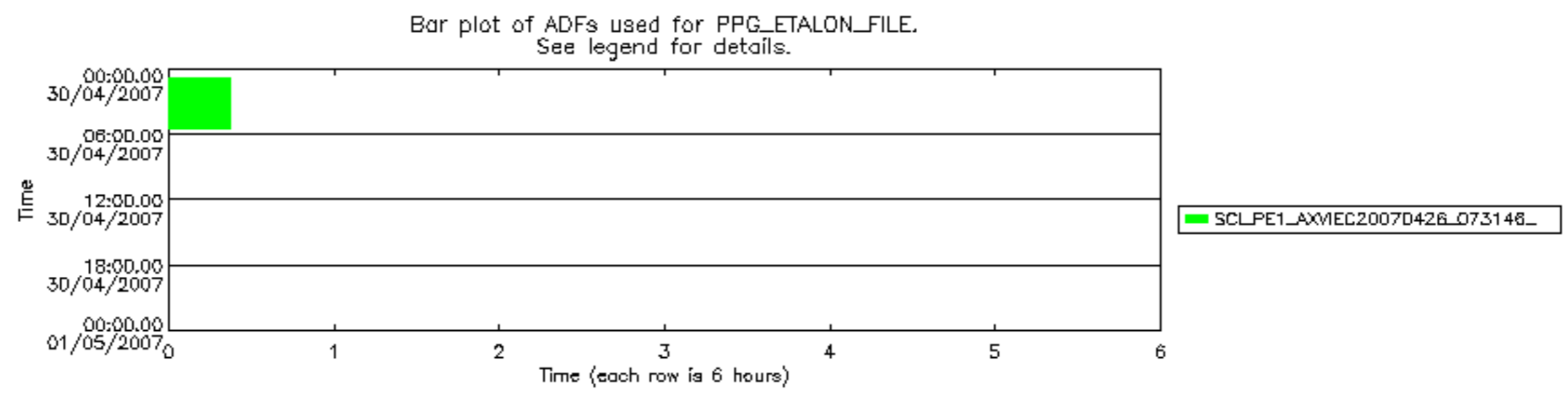
Plots of SCINL1P_NEWLEA_fpn for various detectors on 30APR2007.
Colours indicate the value in BU.

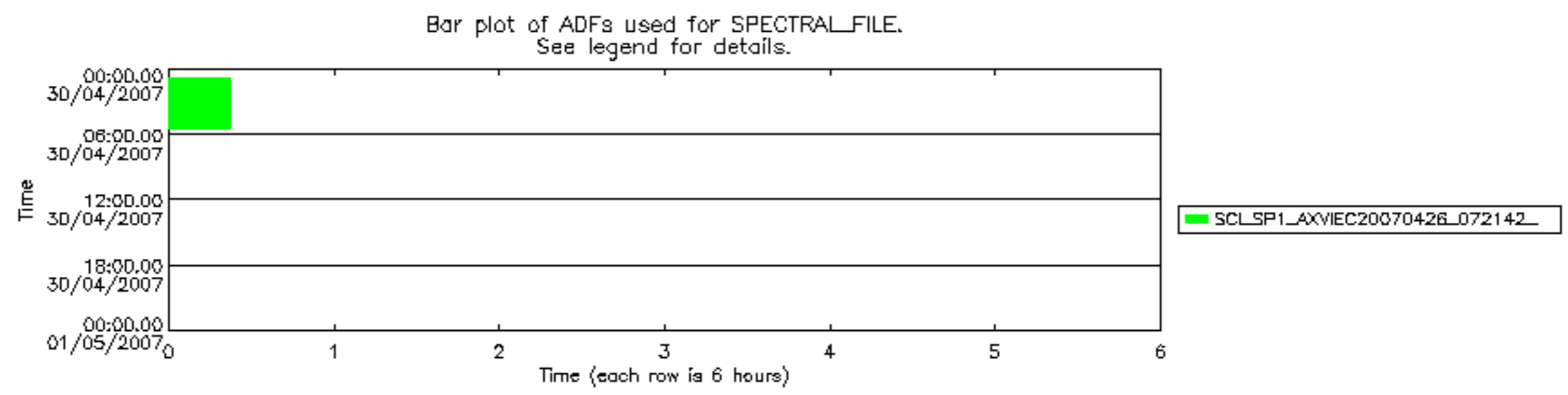
Plots of SCINL1P_NEWLEA_mean_noise for various detectors on 30APR2007.
Colours indicate the value in BU.

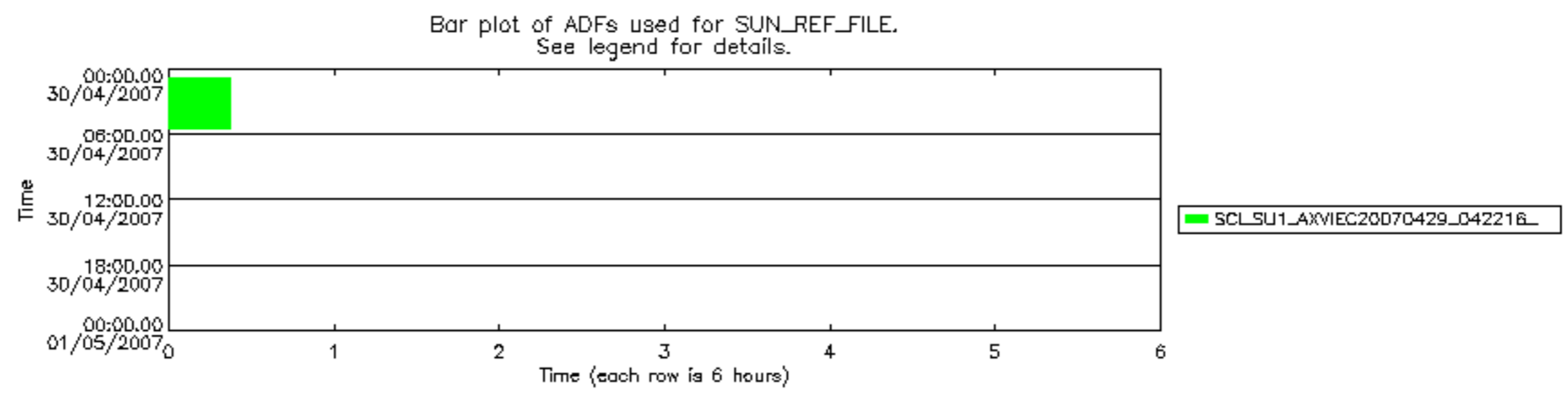
Plots of SCINL1P_NEWLEA_pmd_off vs time on 30APR2007 (red).
 Dark average pmd data is given in blue for comparison.

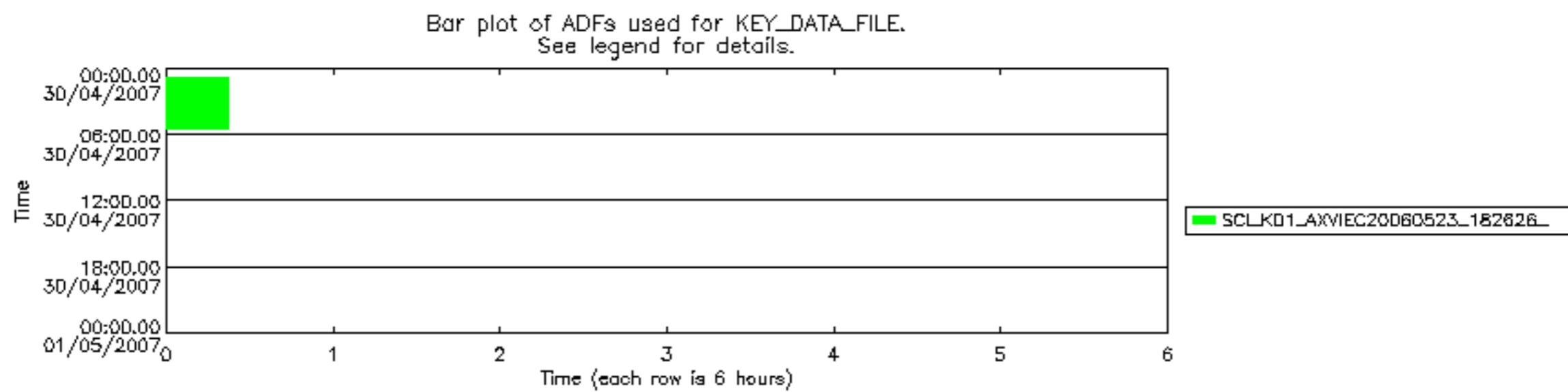


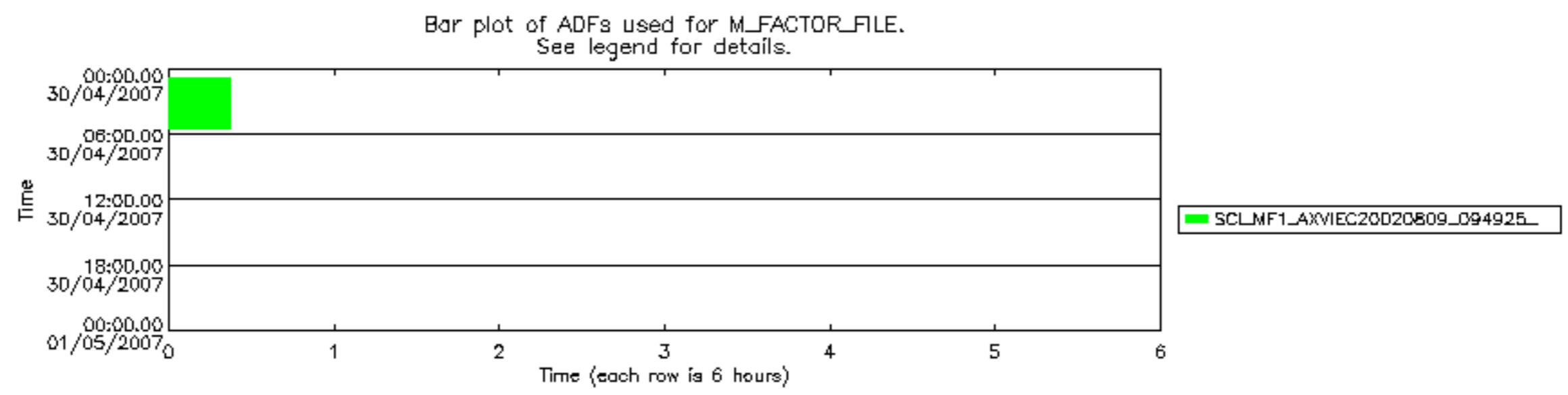


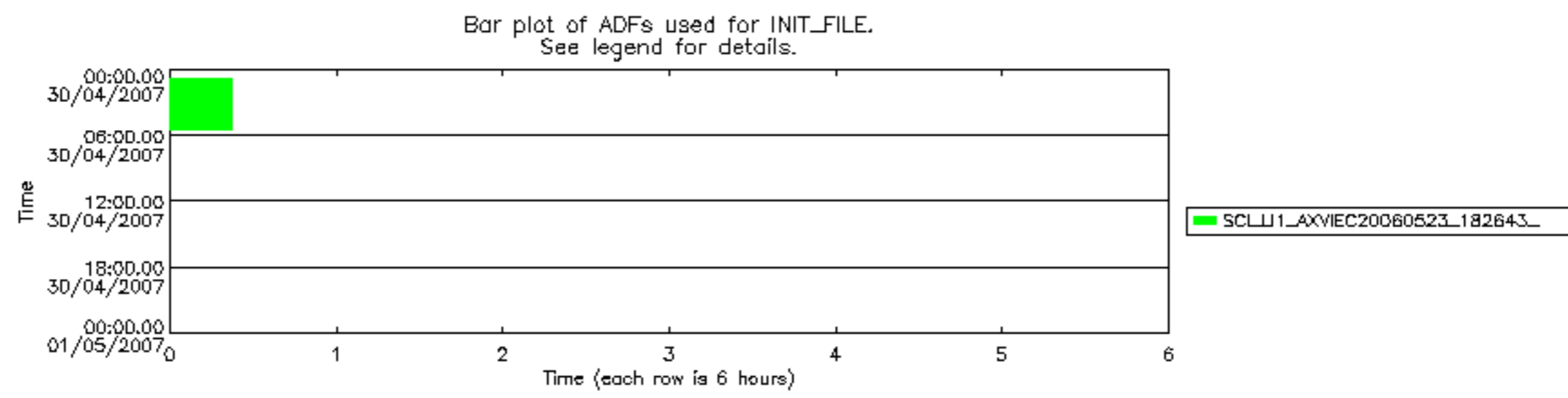


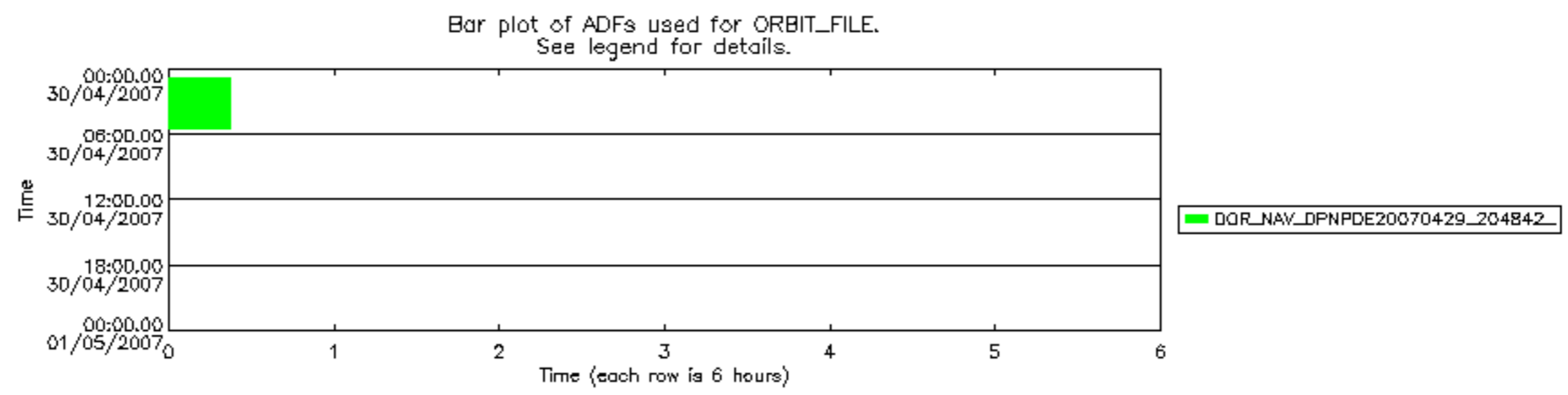


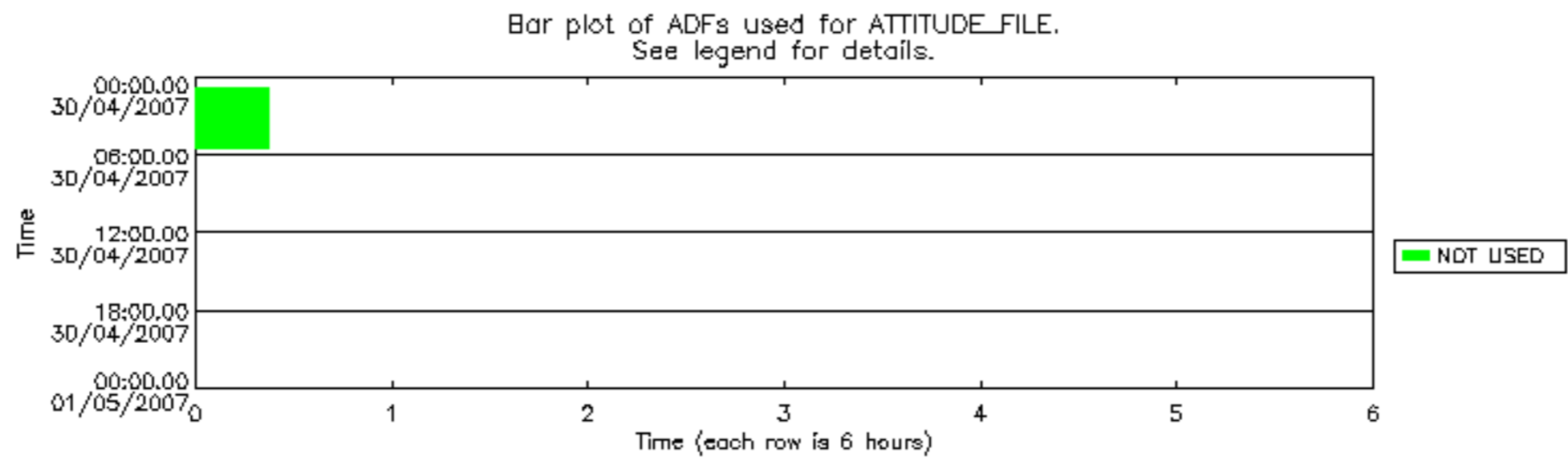












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
 Each row indicates an orbit. A light gray colour indicates the time span of 30APR2007.
 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
 The remaining colours indicate planned activities and/or special measurements.
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

