

1. SCIAMACHY Daily Report for level 1 products

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[1.2 Product Quality Indicators](#)

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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	1.5 (28-07-2008)
Time of report generation	19APR2012 11:13:30
Data source version	SCIA/7.04-W
Processing scope for products	06MAR2012 00:00:00 to 07MAR2012 00:00:00
Start time of first product within scope	05MAR2012 22:55:43
Stop time of last product within scope	06MAR2012 00:35:08
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.

Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

#	Product name	Start time	Stop time	ProdErr	#nadir	#limb	#occ	#mon	#nopro	#cpl_drk	#incpl_drk	Decont
0	SCI_NL__1PWDPA20120305_225543_000059653112_00217_52386_0976.N1	05MAR2012 22:55:43	06MAR2012 00:35:08	0	32	45	1	1	1	15	0	nnnnnnnn

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:

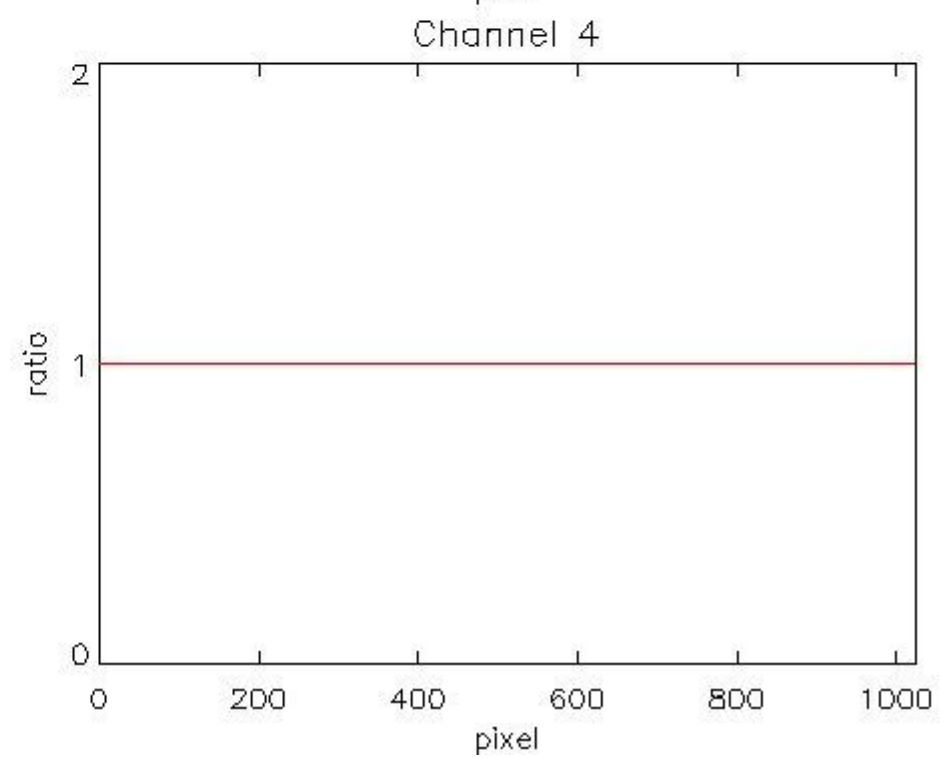
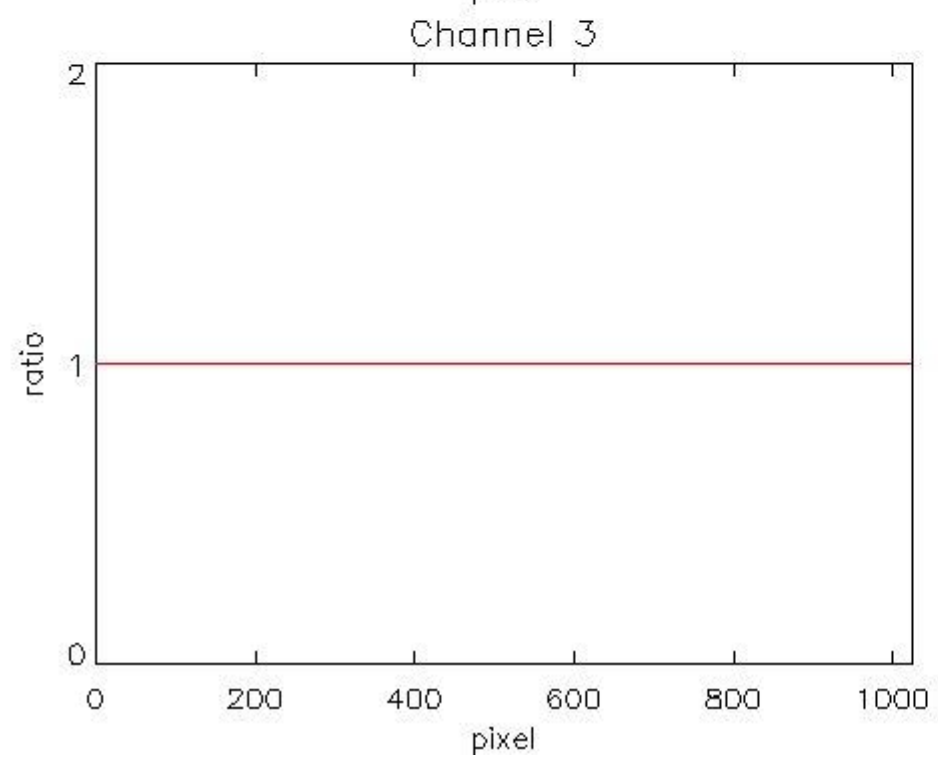
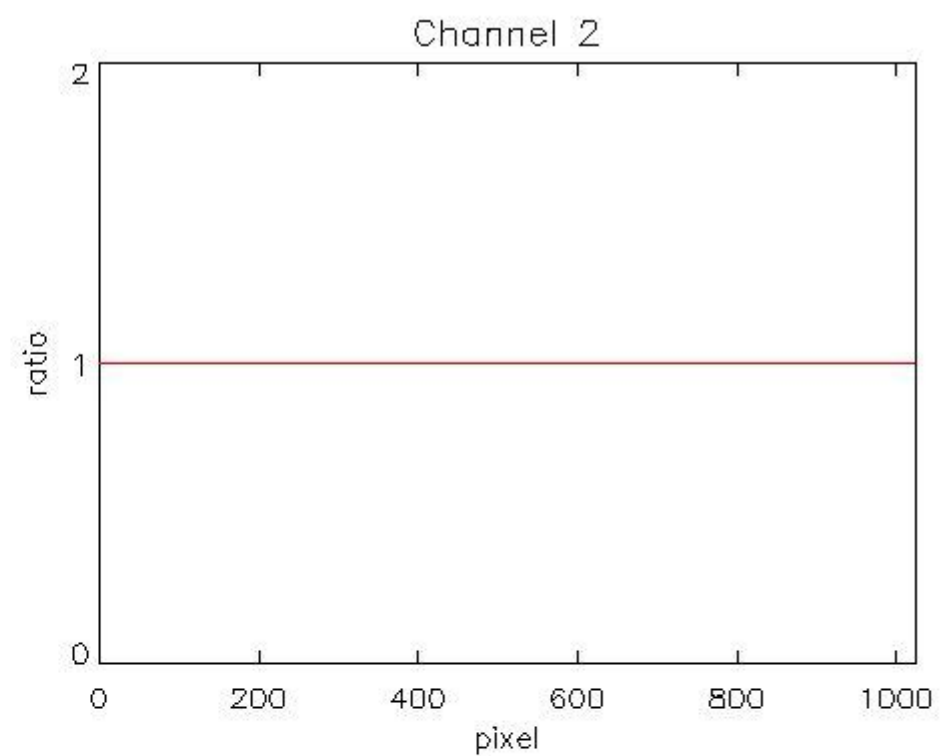
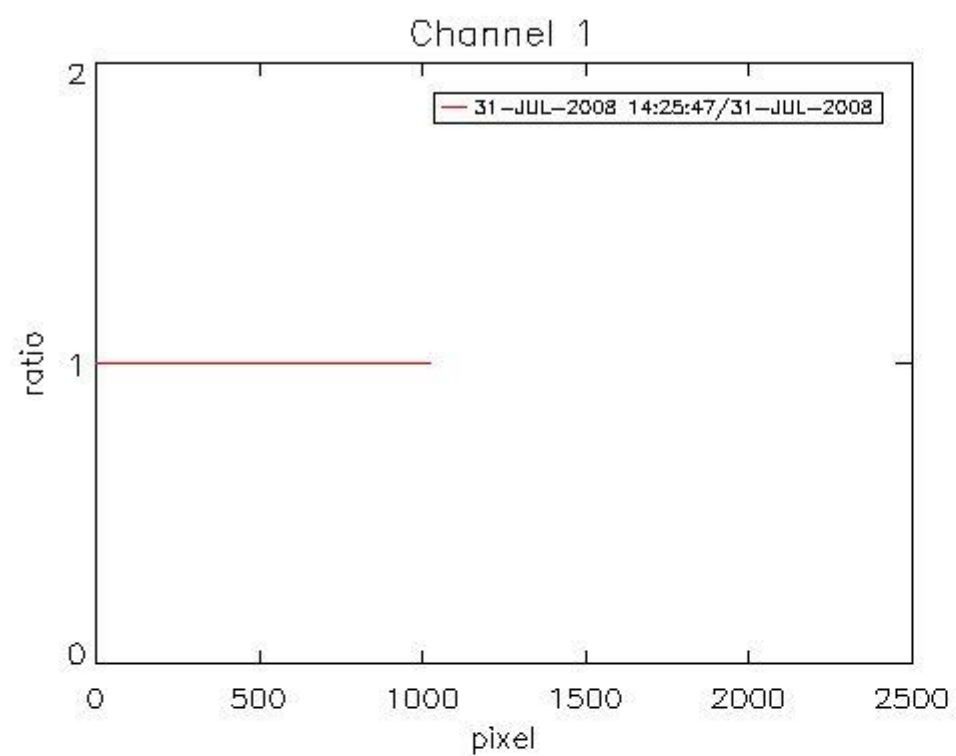
1. Polarisation check (if available)
2. Leakage FPN measurements (if available)
3. Dark measurements (if available)
4. New leakage current parameters (if available)
5. New spectral calibration parameters (if available)
6. New sun reference spectrum (if available)
7. New PPG/Etalon parameters (if available)

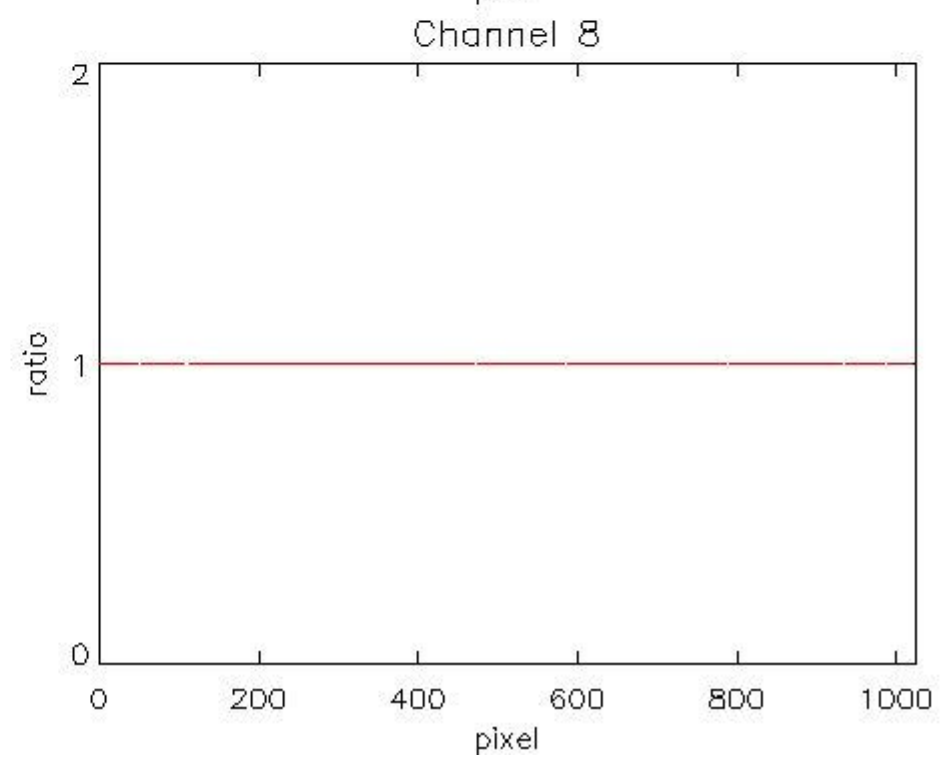
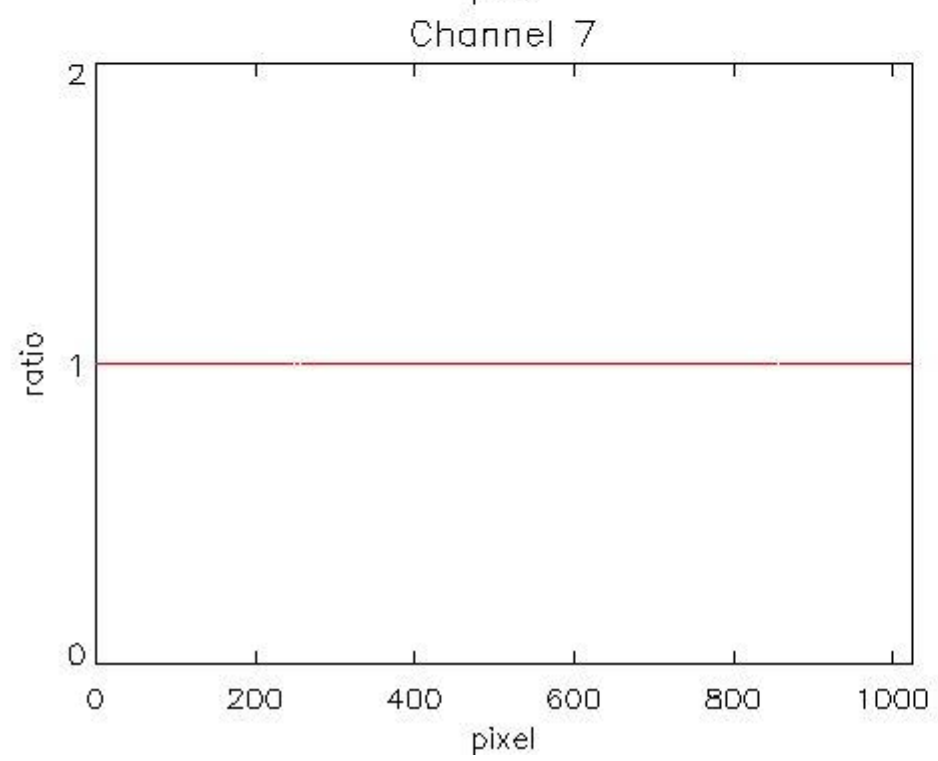
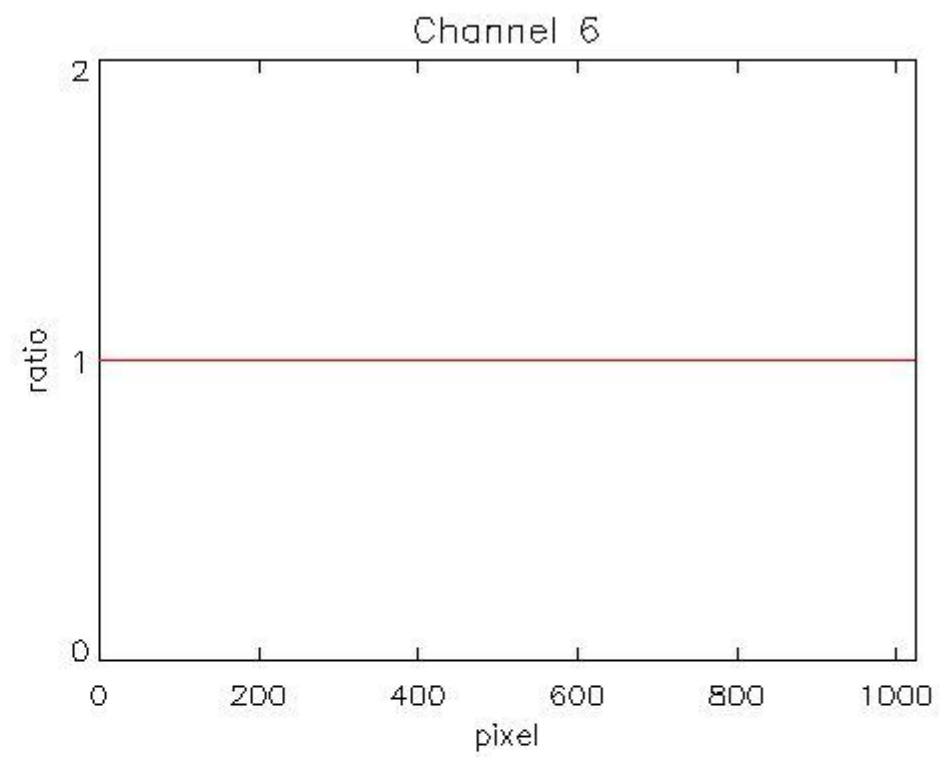
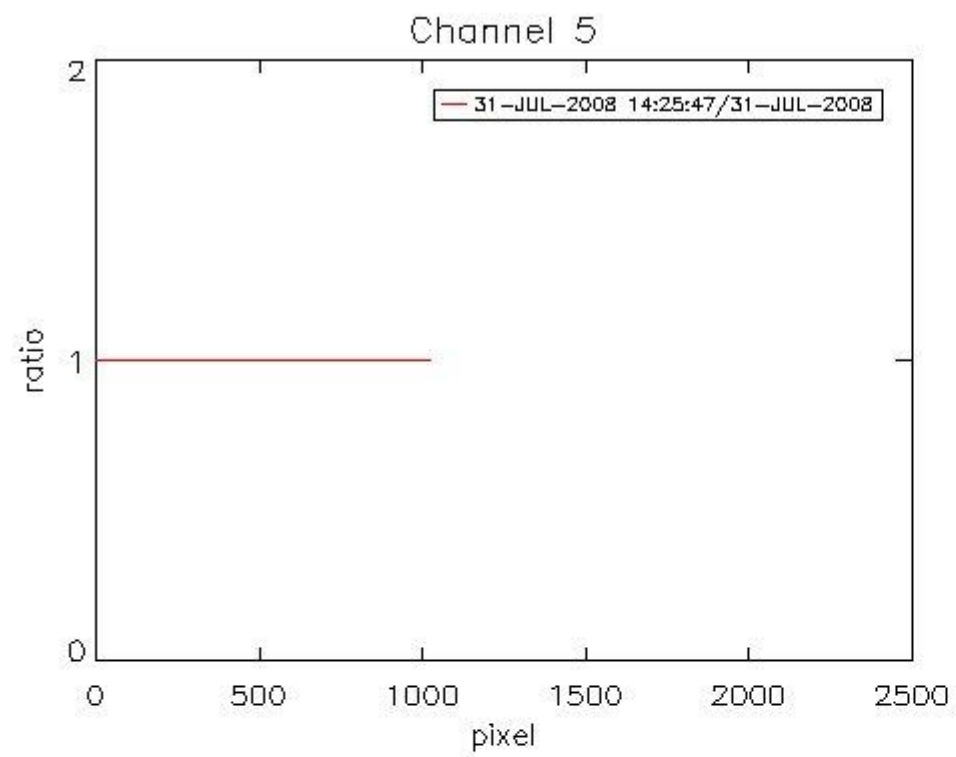
1.2.1 Polarisation check

No fractional polarisation values available.

1.2.2 Fixed pattern noise information from SCI_LK1_AX files in product references

The following plots show ratios of fixed pattern noise of SCI_LK1_AX files that are referred to by the products listed in Section 1.1.2. Note: this section is currently in a testing phase.

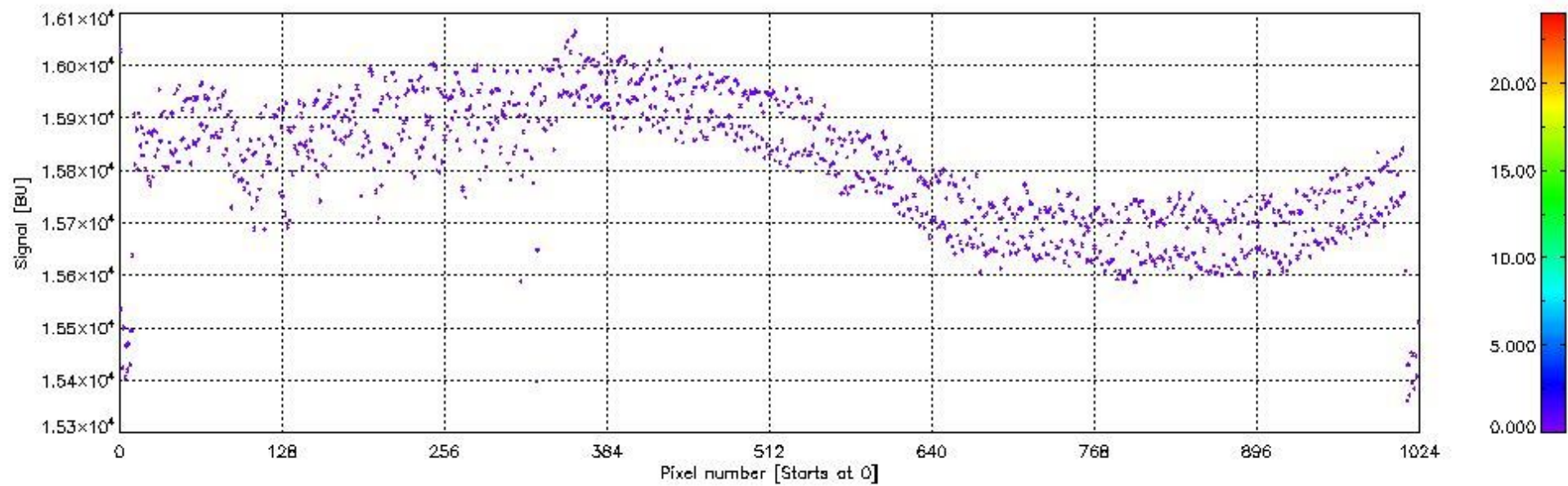
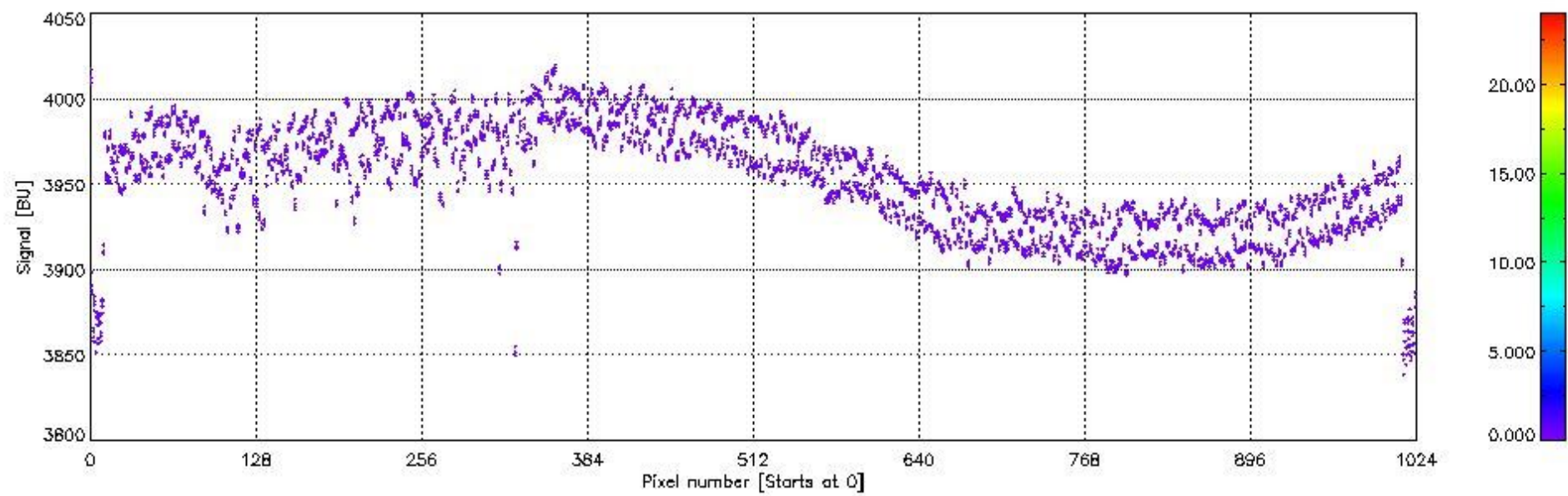
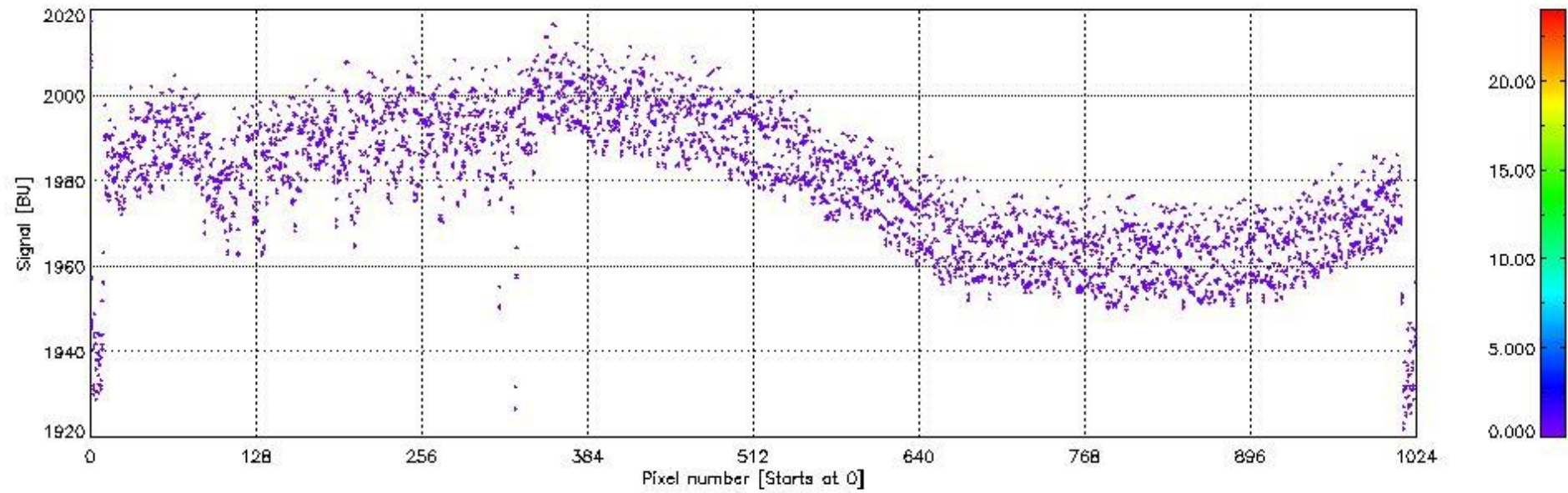




1.2.3 Dark measurements overview

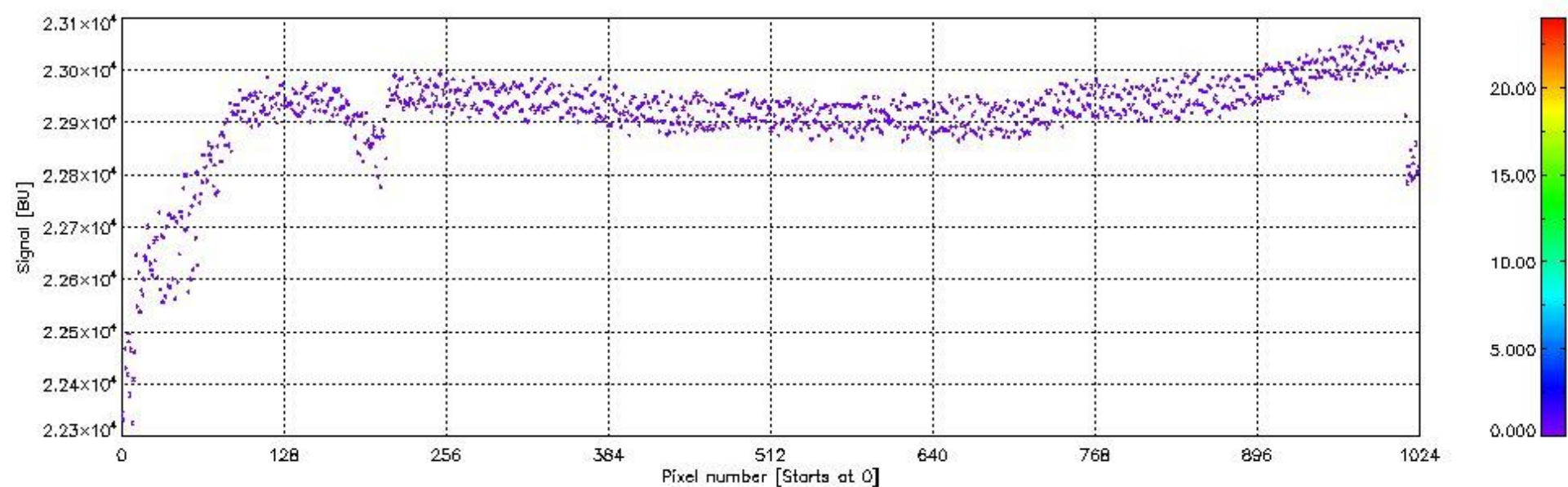
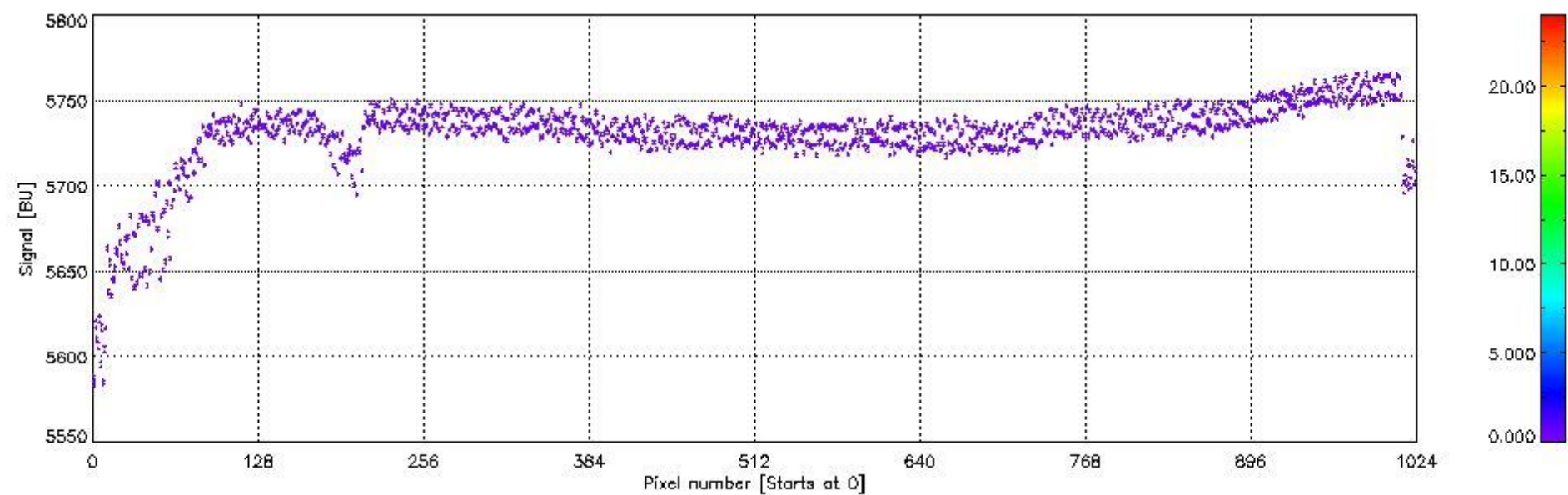
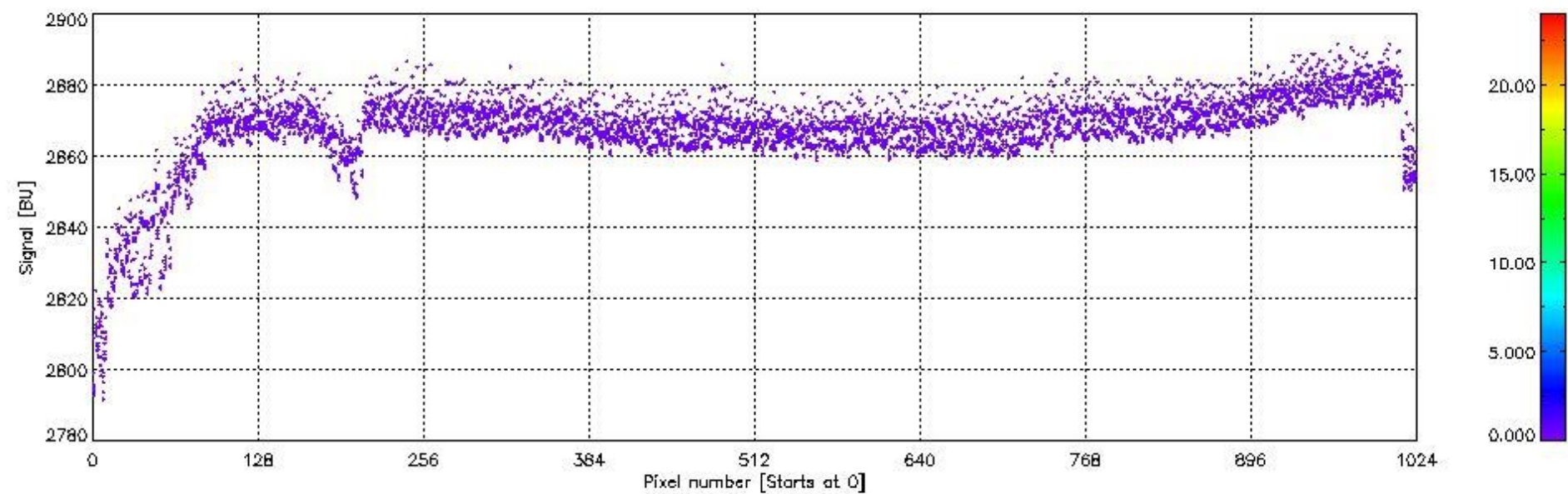
This section lists properties of the dark measurements performed within the processing scope.

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 1 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



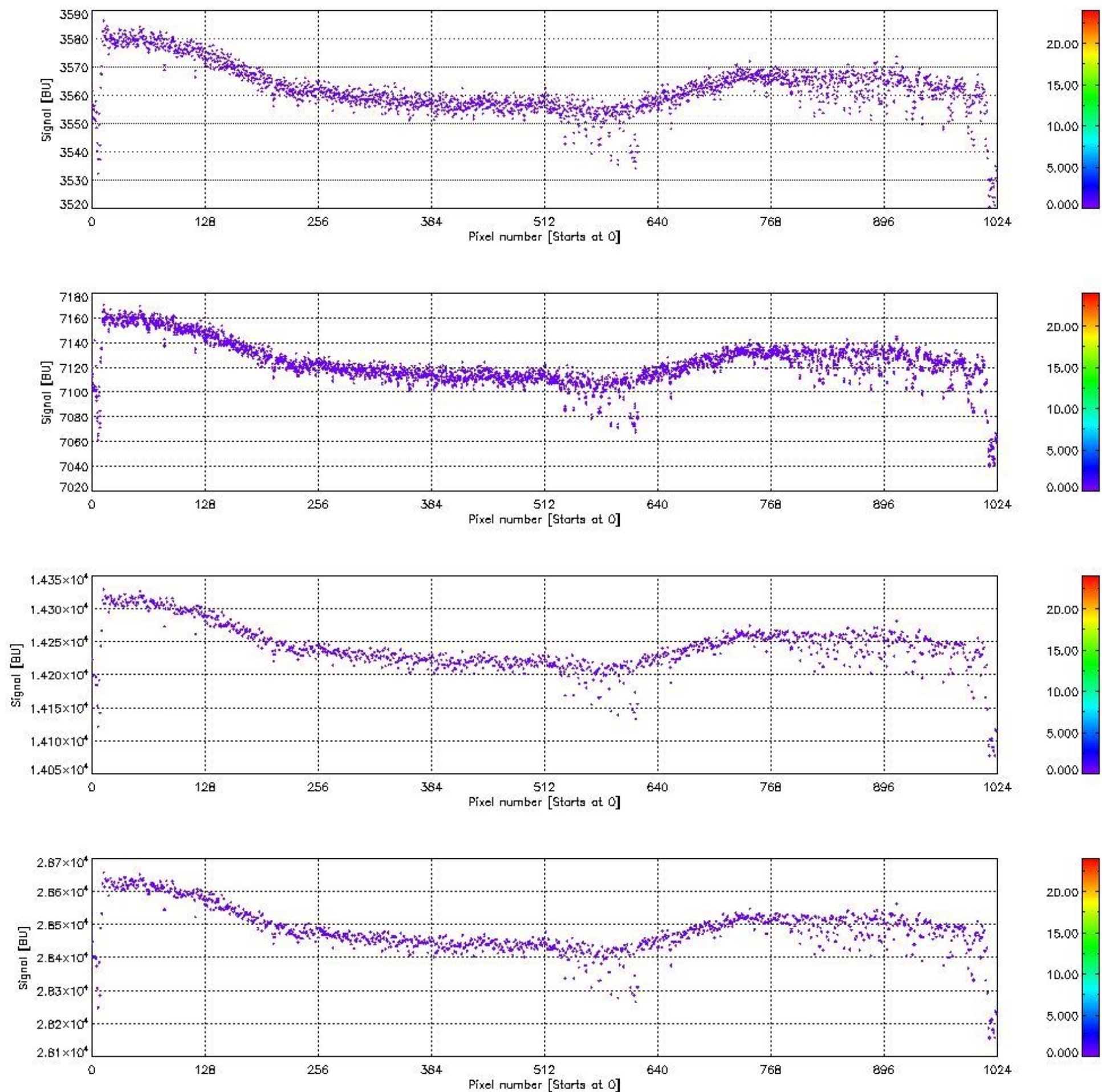
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_2.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 2 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



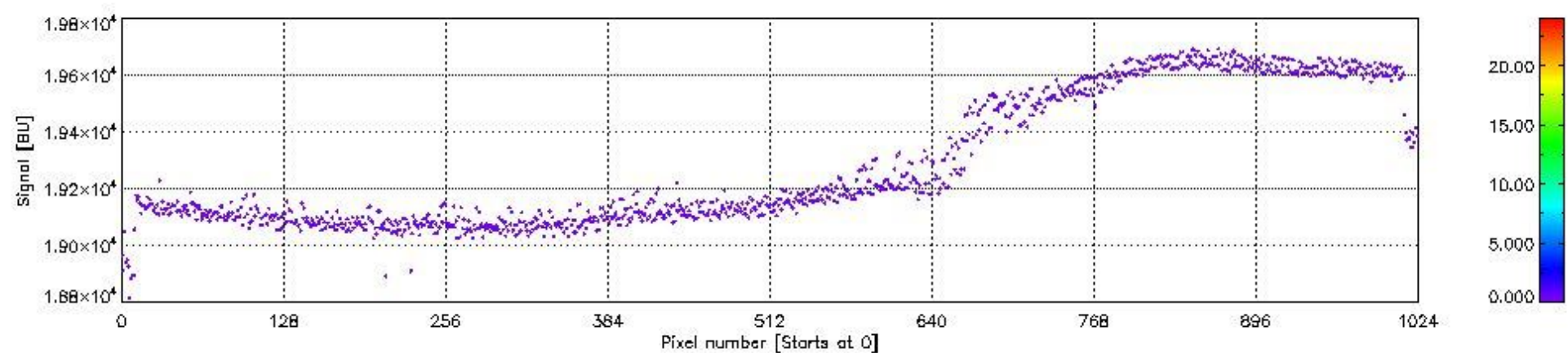
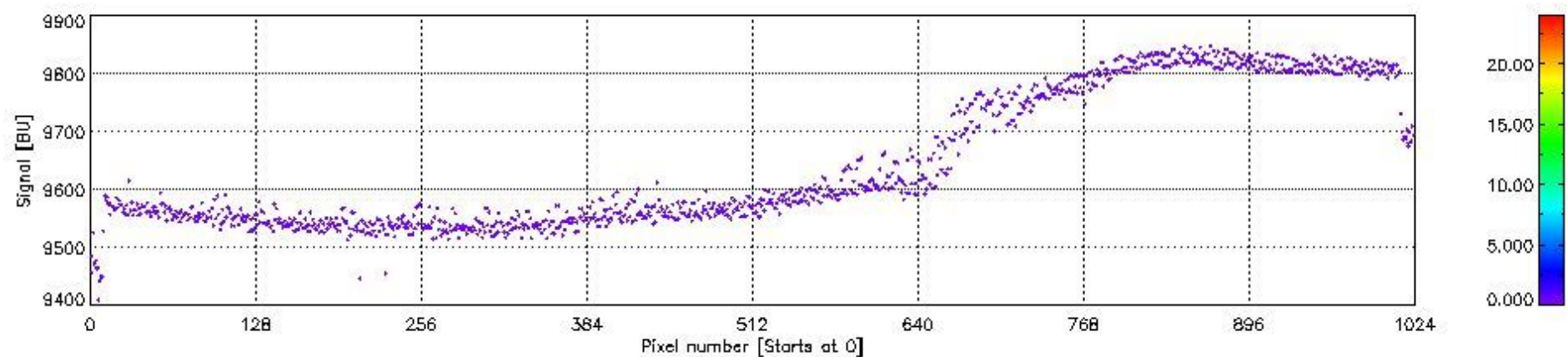
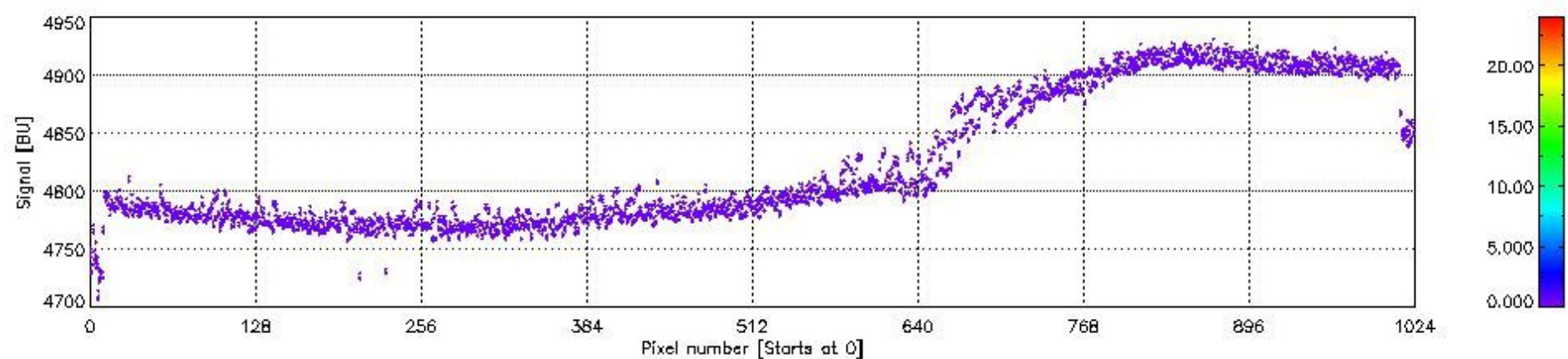
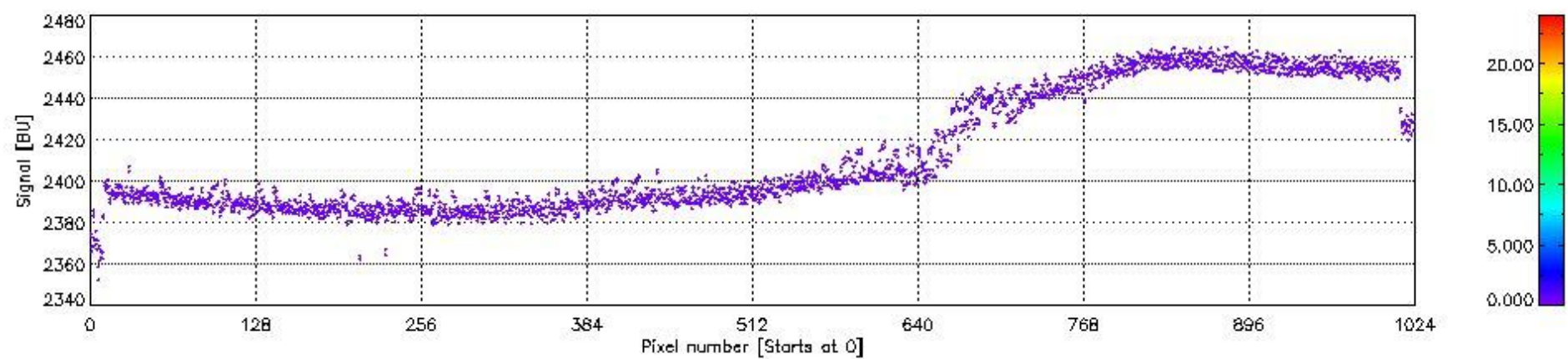
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_3.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 3 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



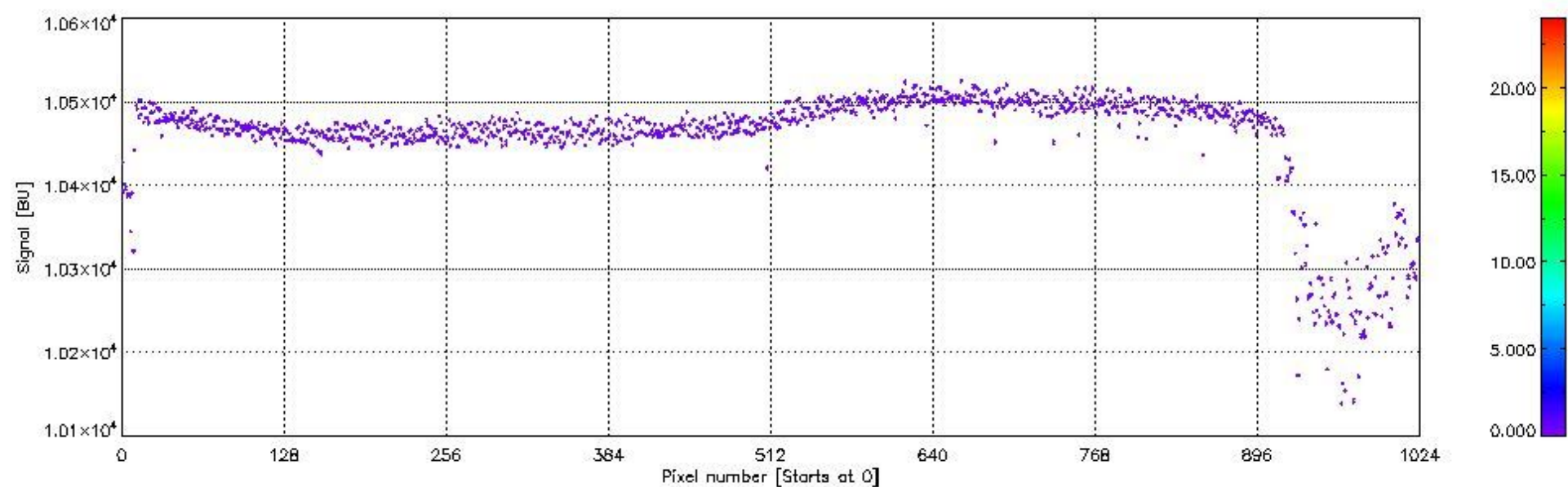
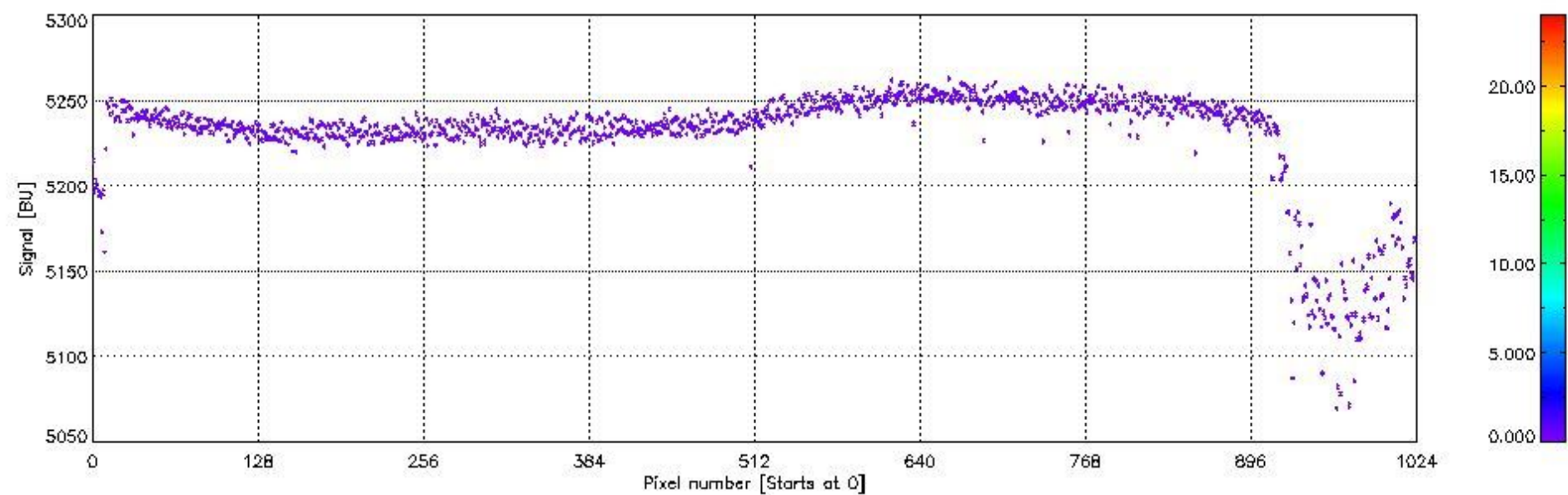
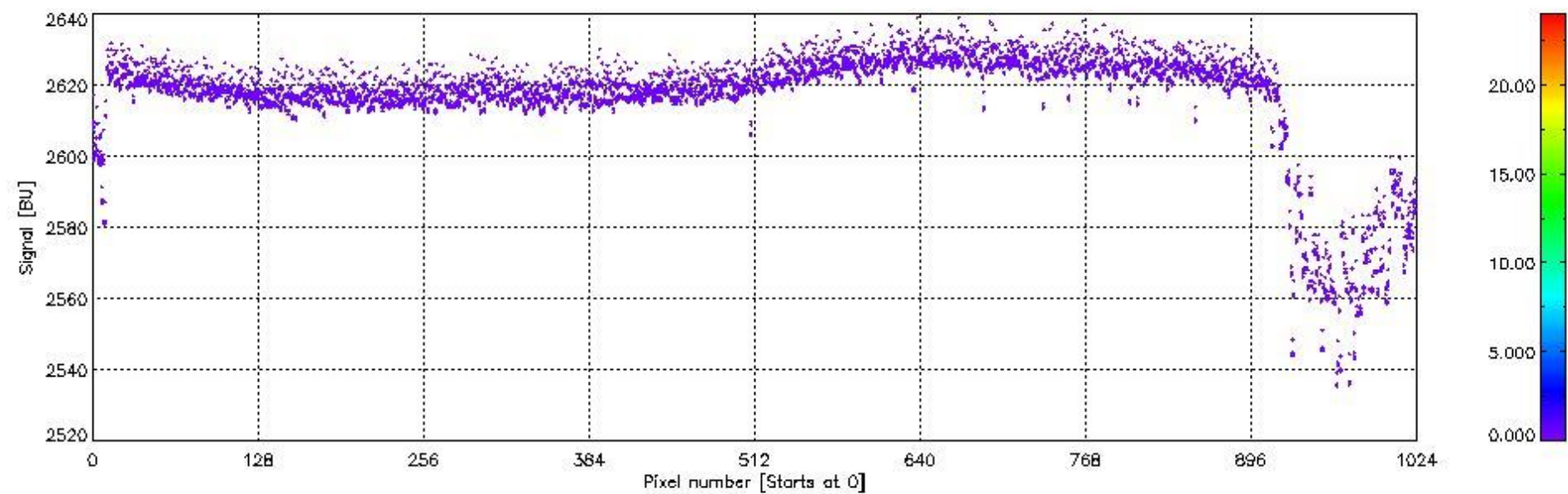
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_4.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 4 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



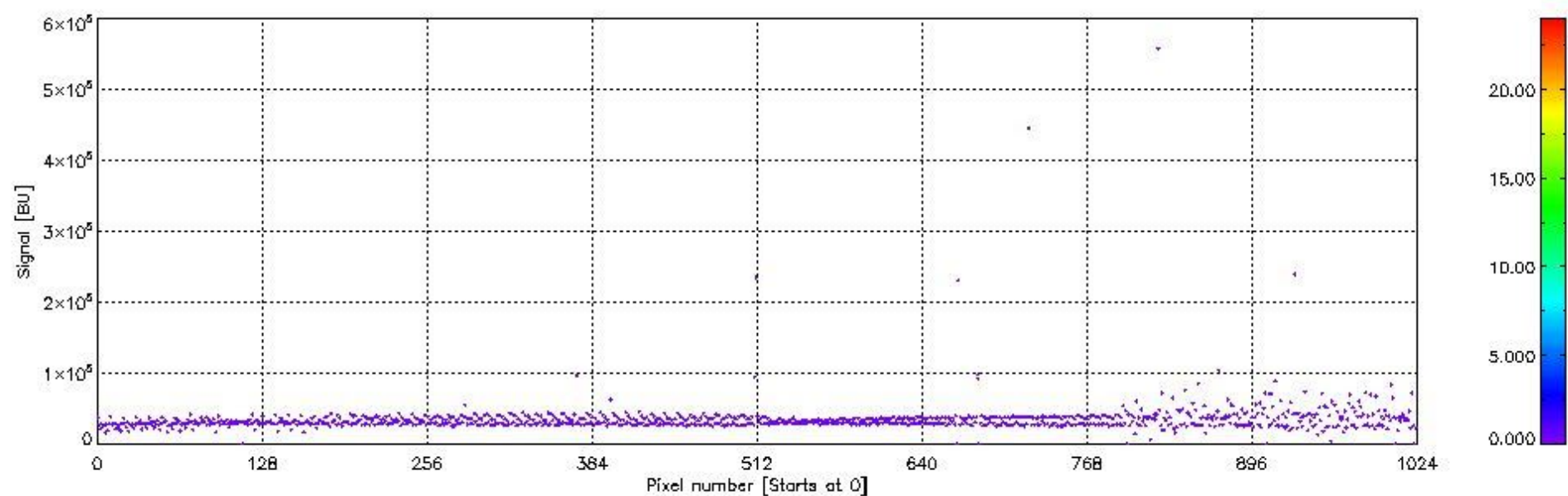
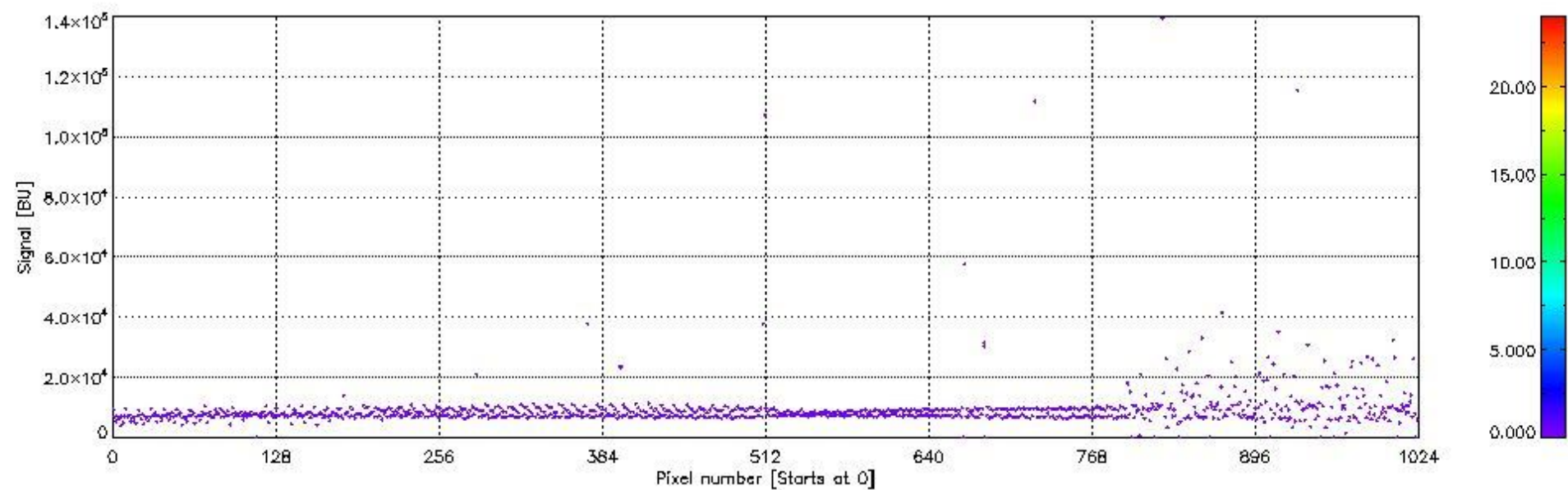
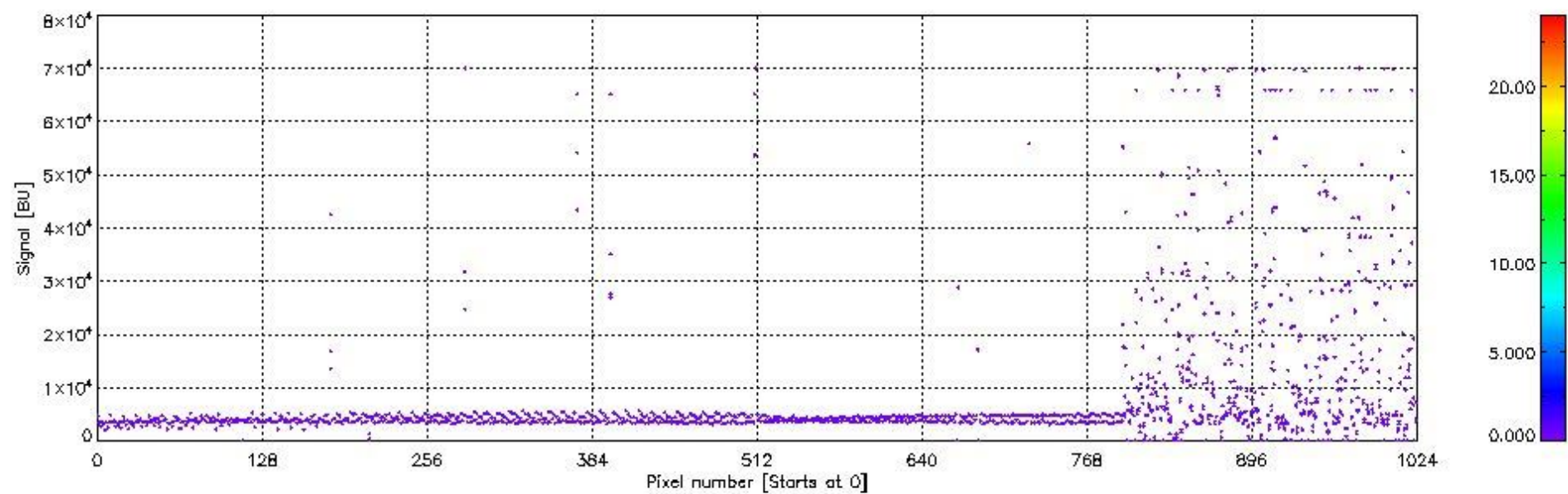
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_5.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 5 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



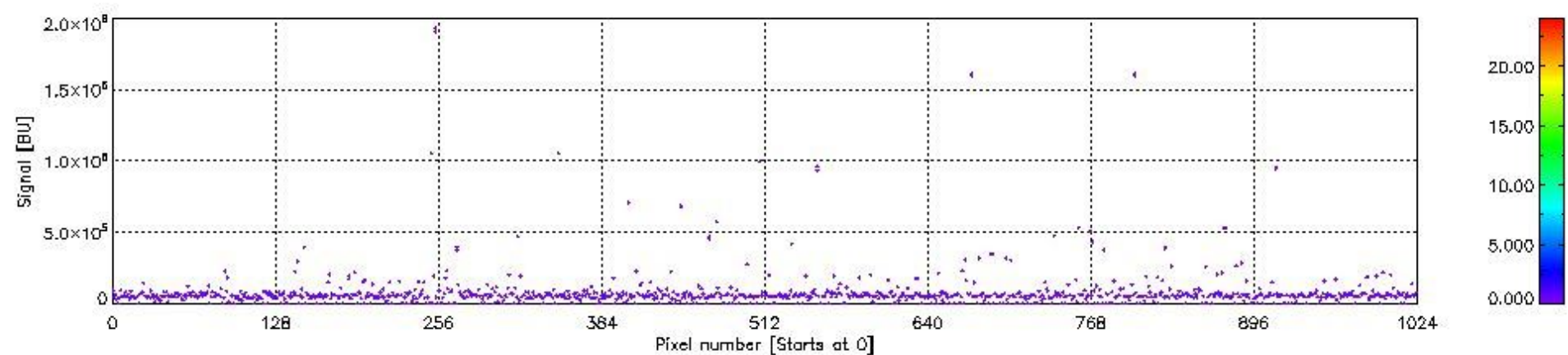
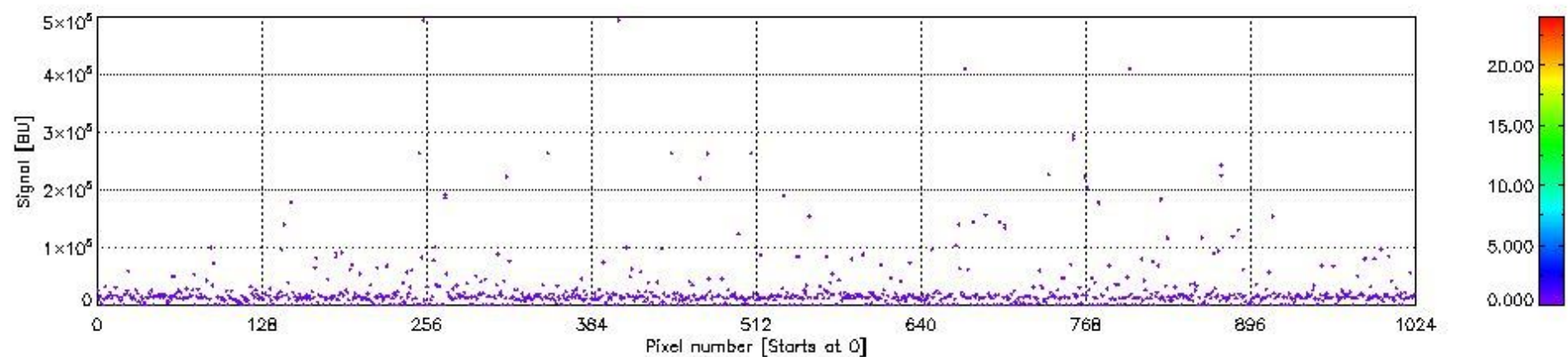
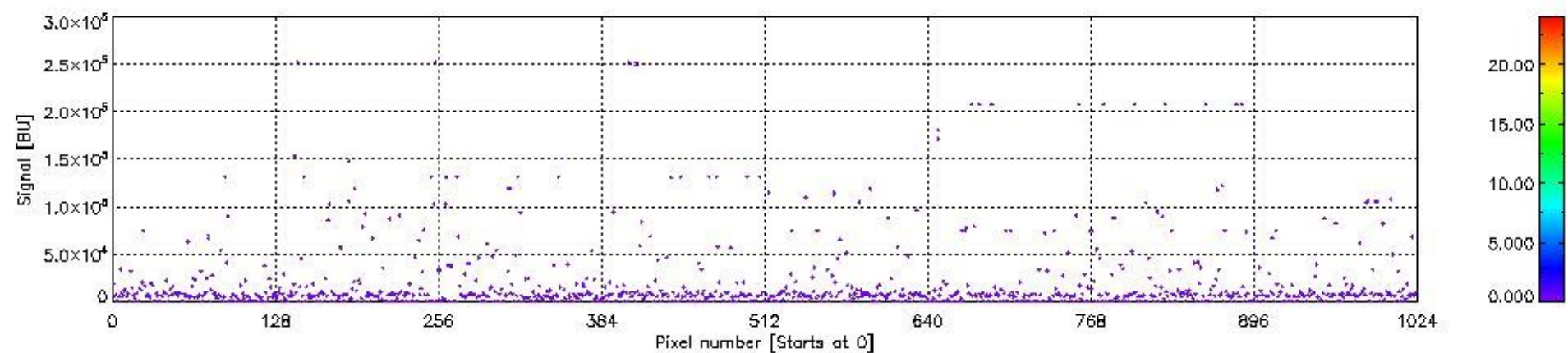
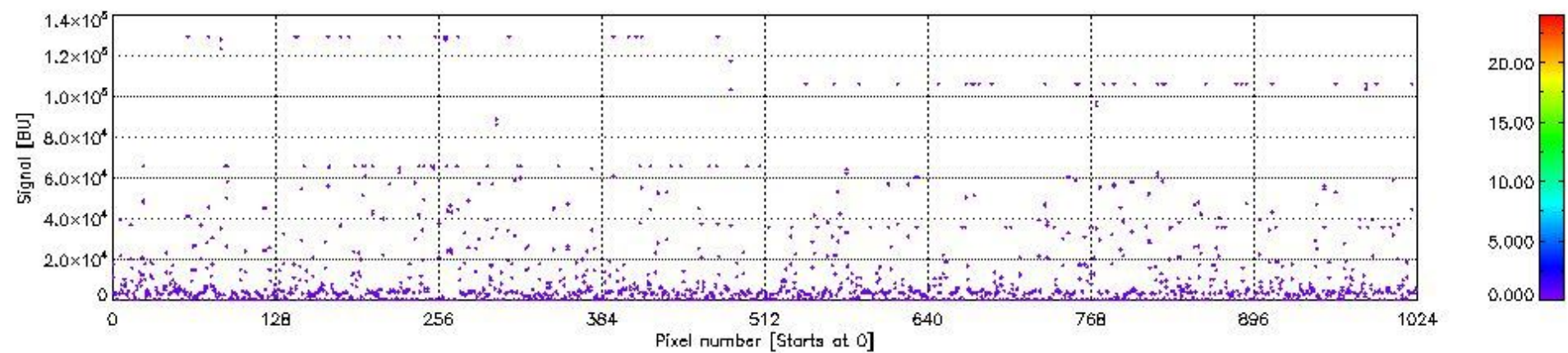
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_6.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 6 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



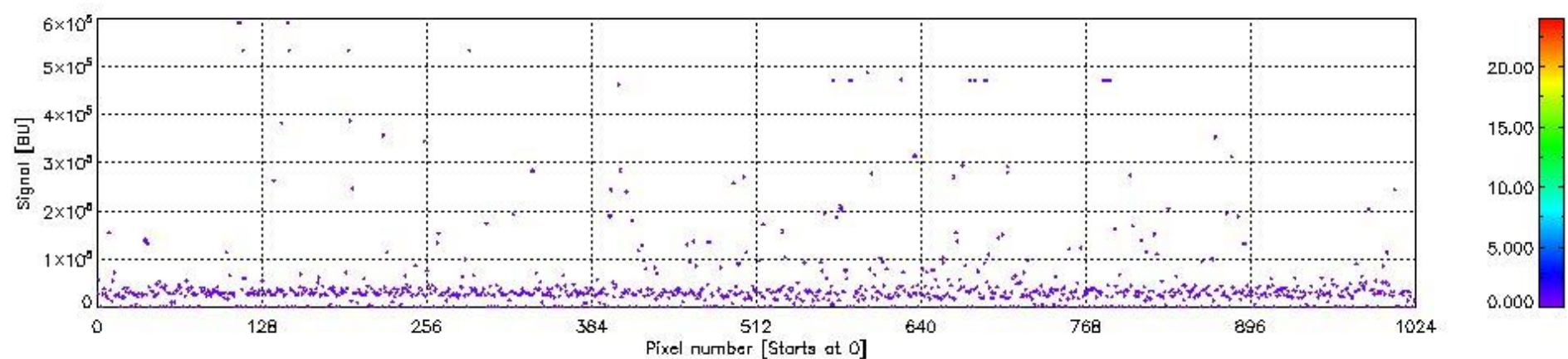
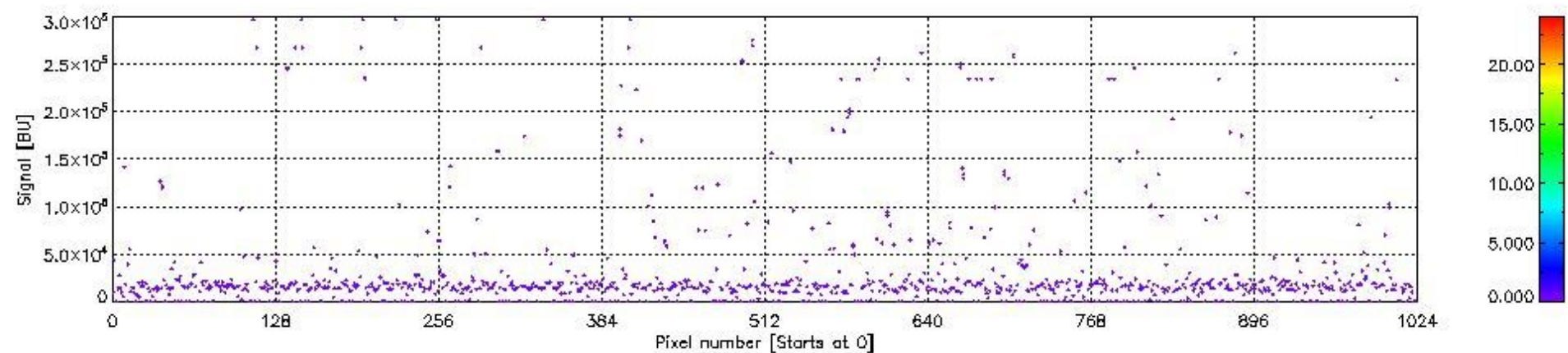
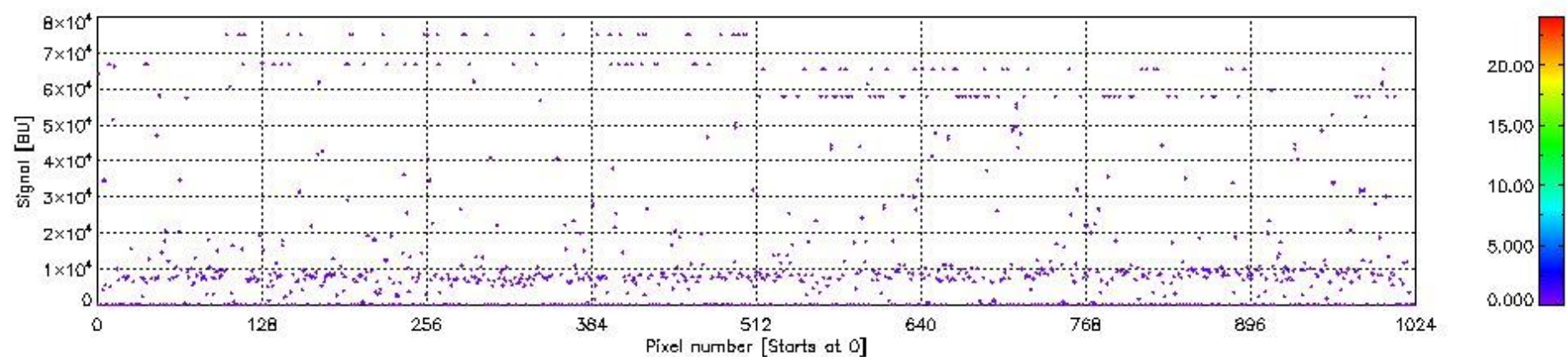
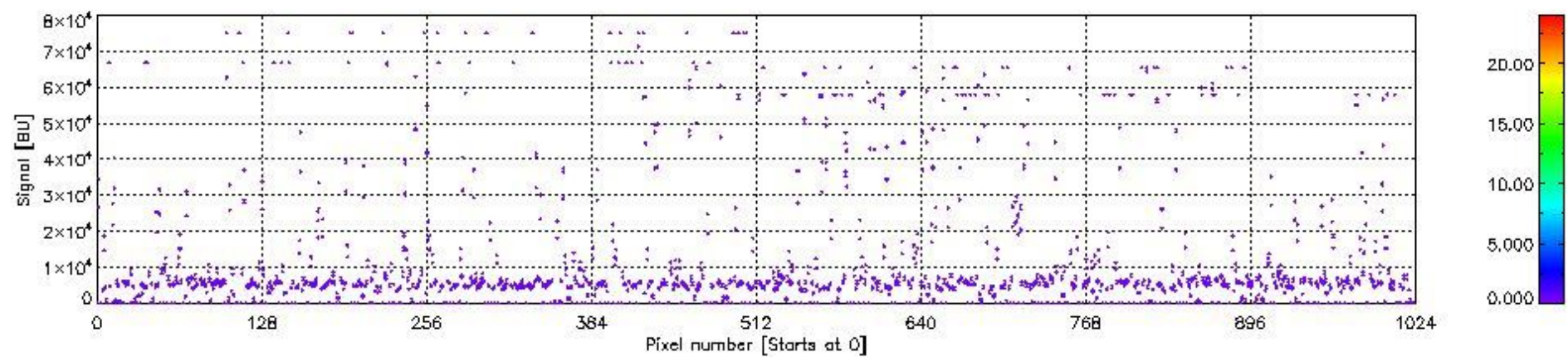
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_7.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 7 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00

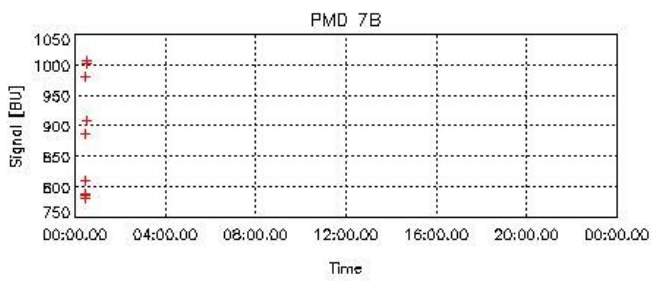
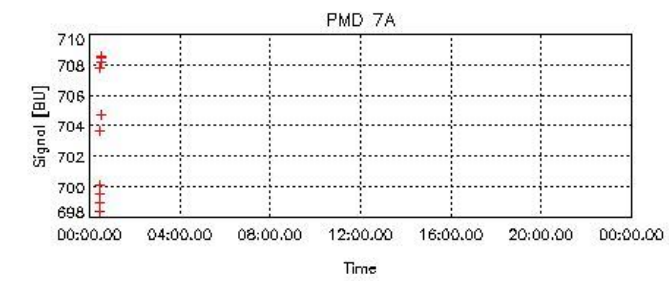
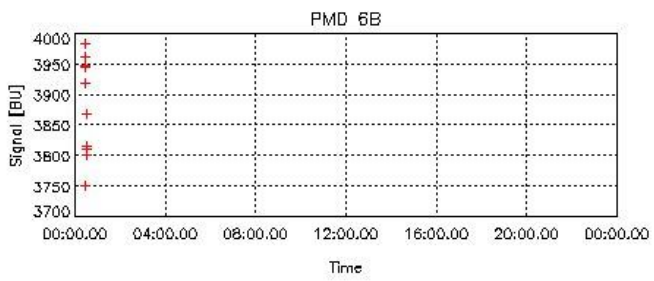
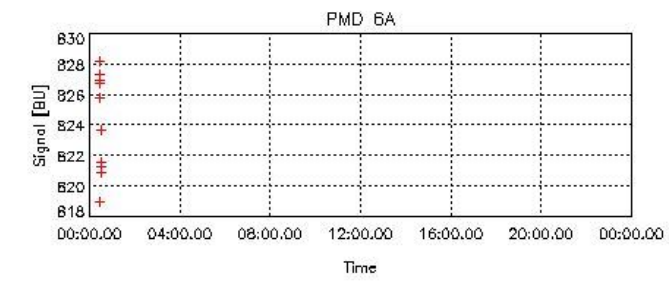
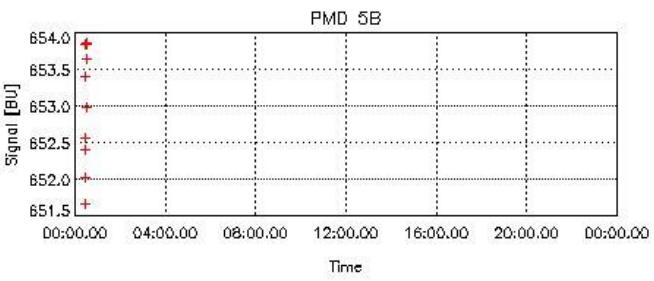
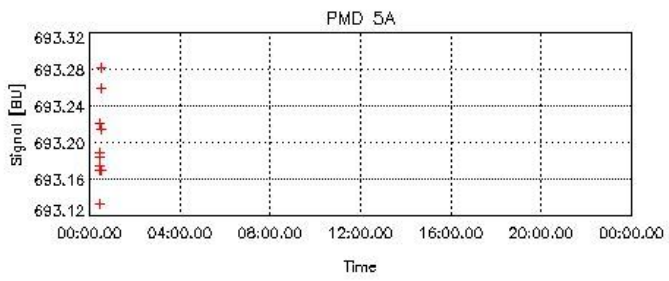
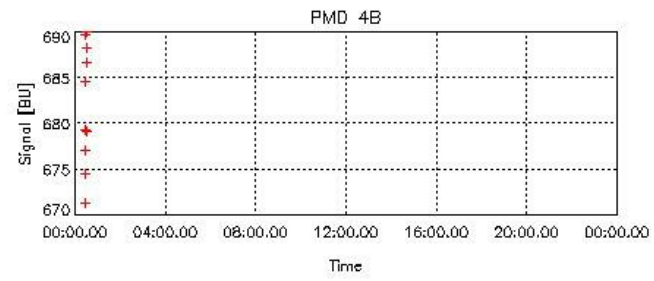
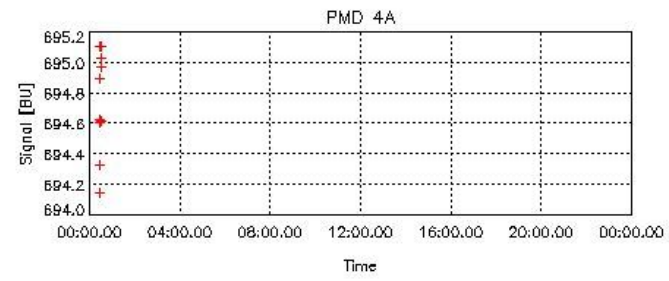
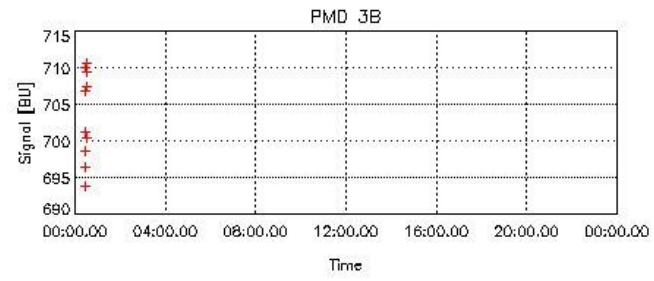
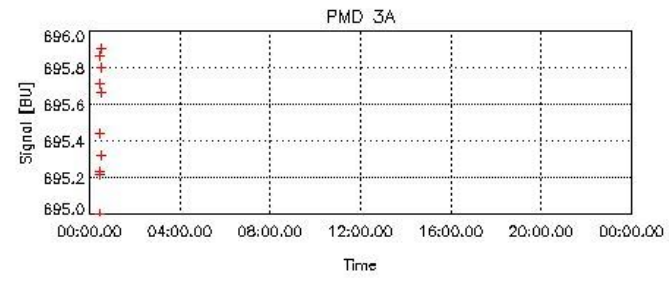
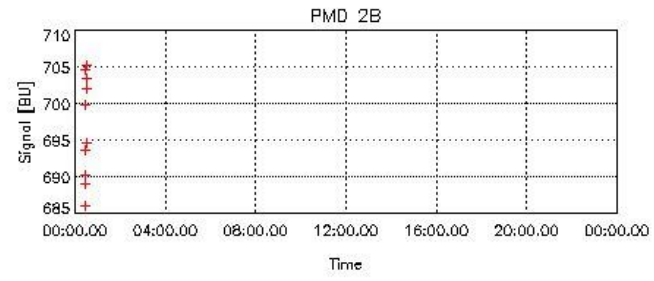
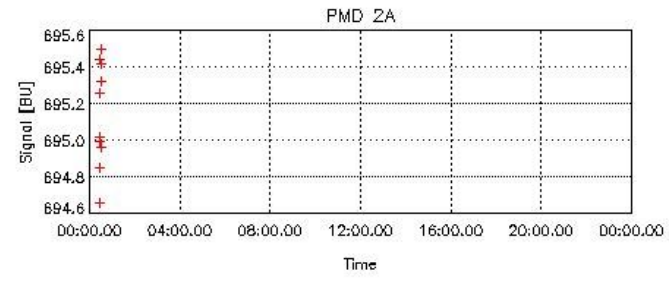
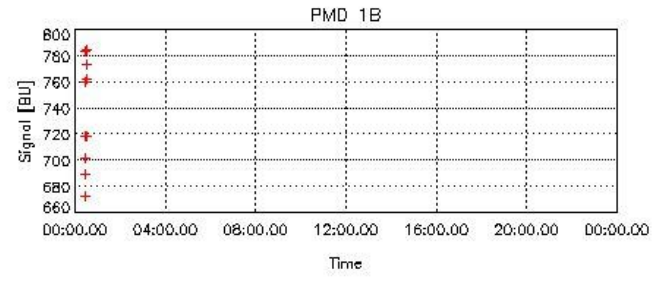
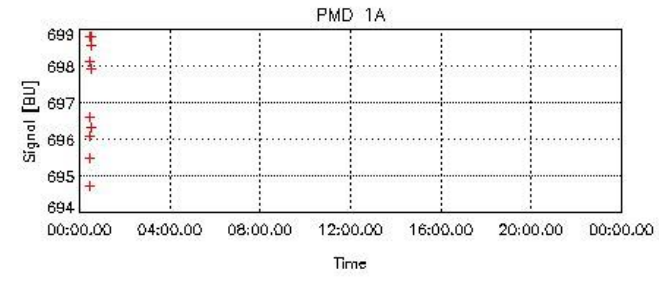


sciamachy_daily_report_level1_SCIA_7_04_W_20120306_8.PNG

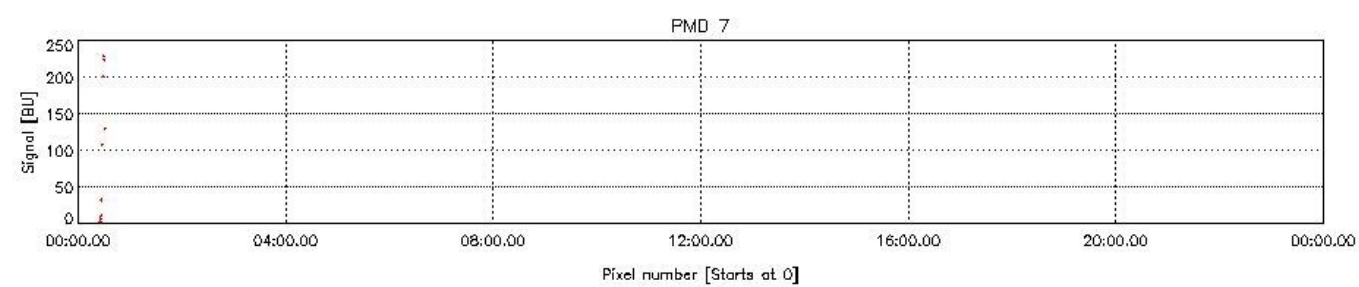
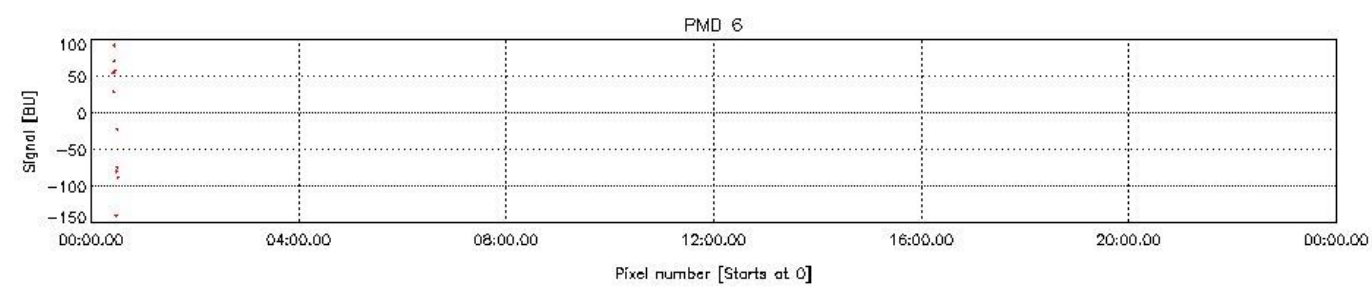
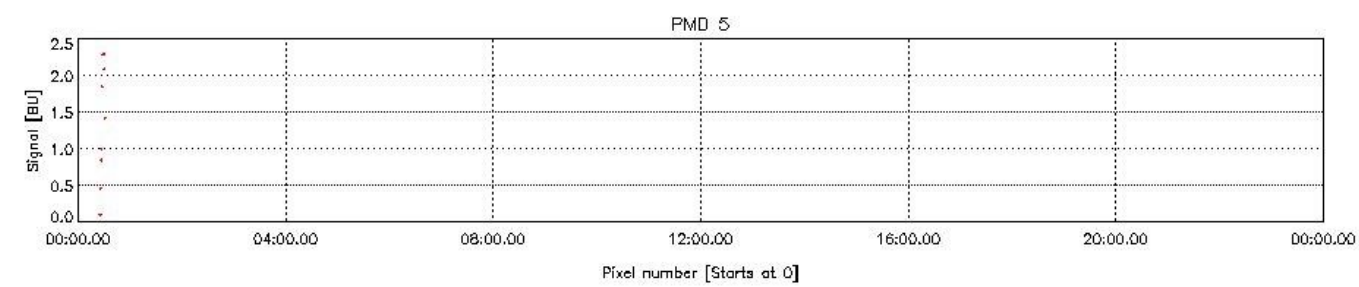
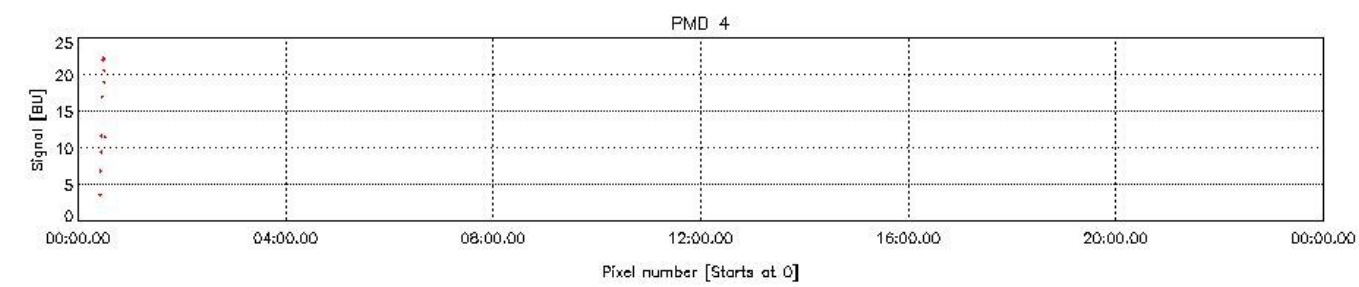
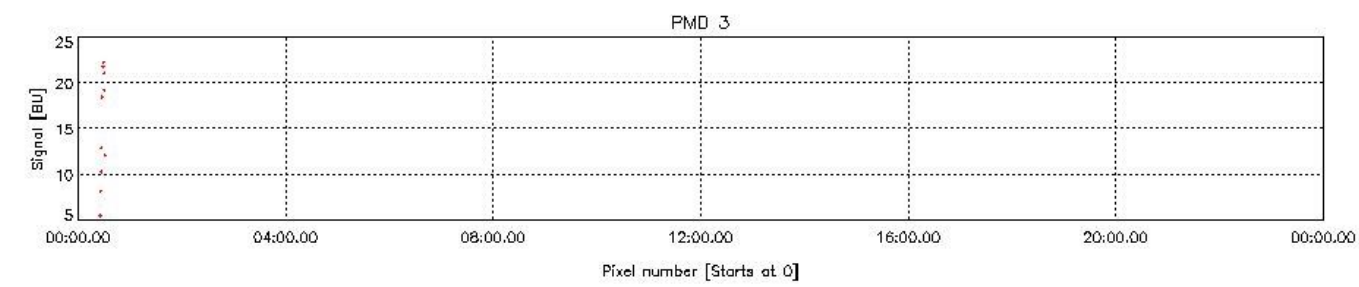
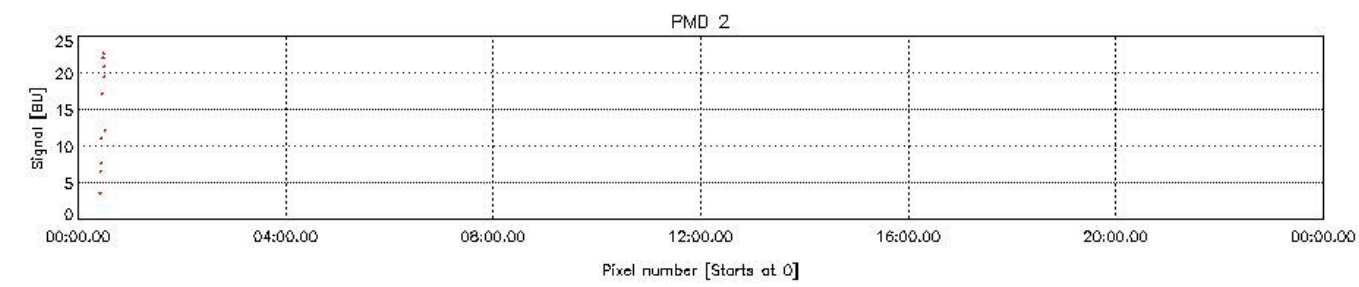
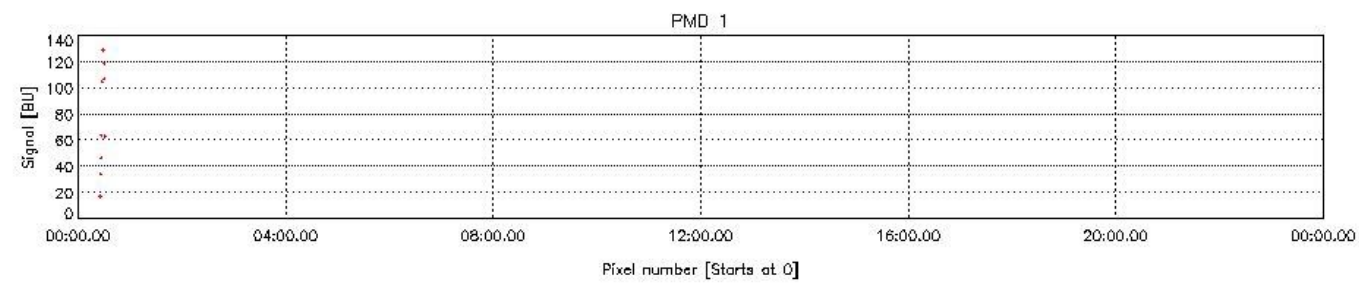
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 8 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00

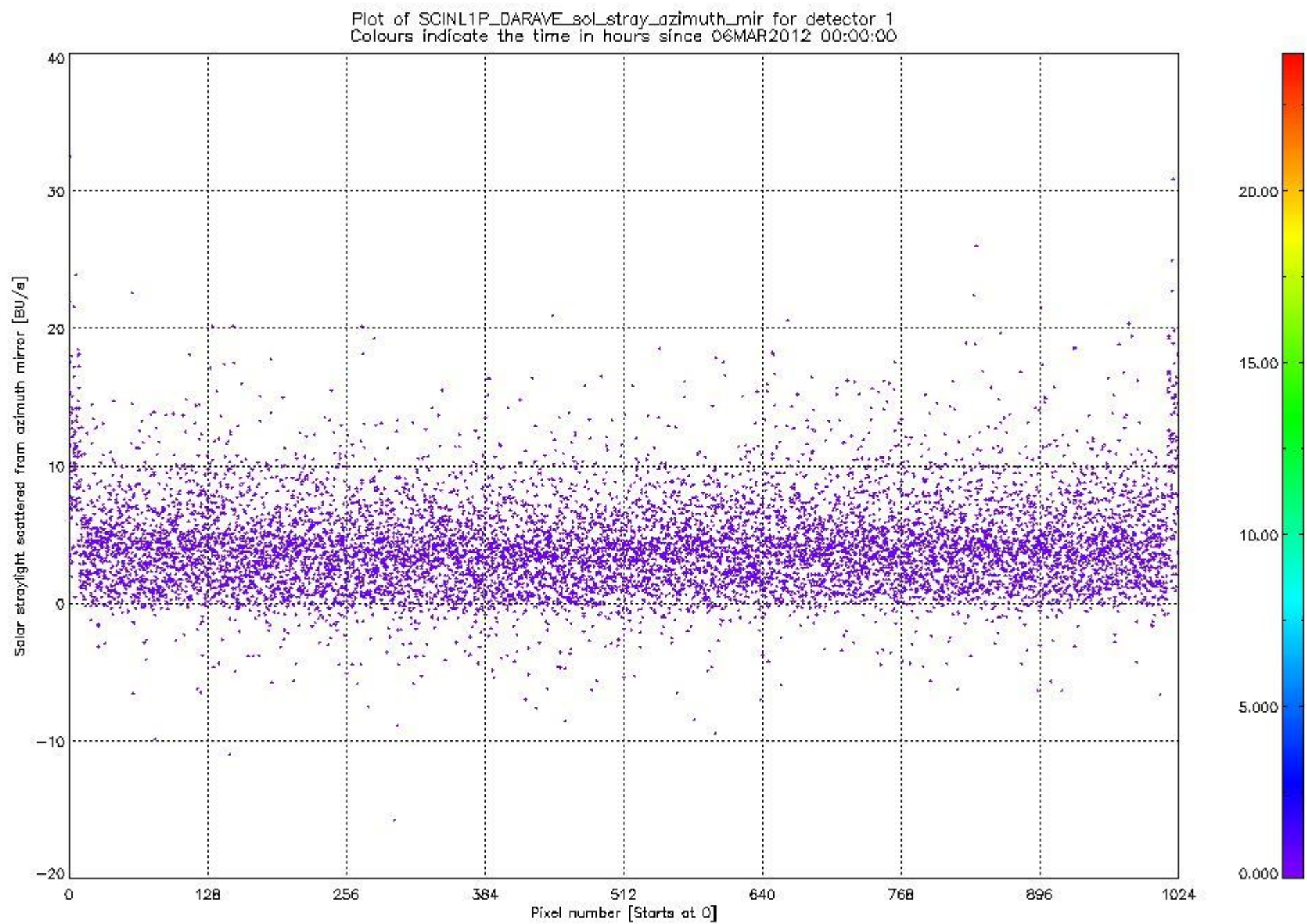


sciamachy_daily_report_level1_SCIA_7_04_W_20120306_9.PNG

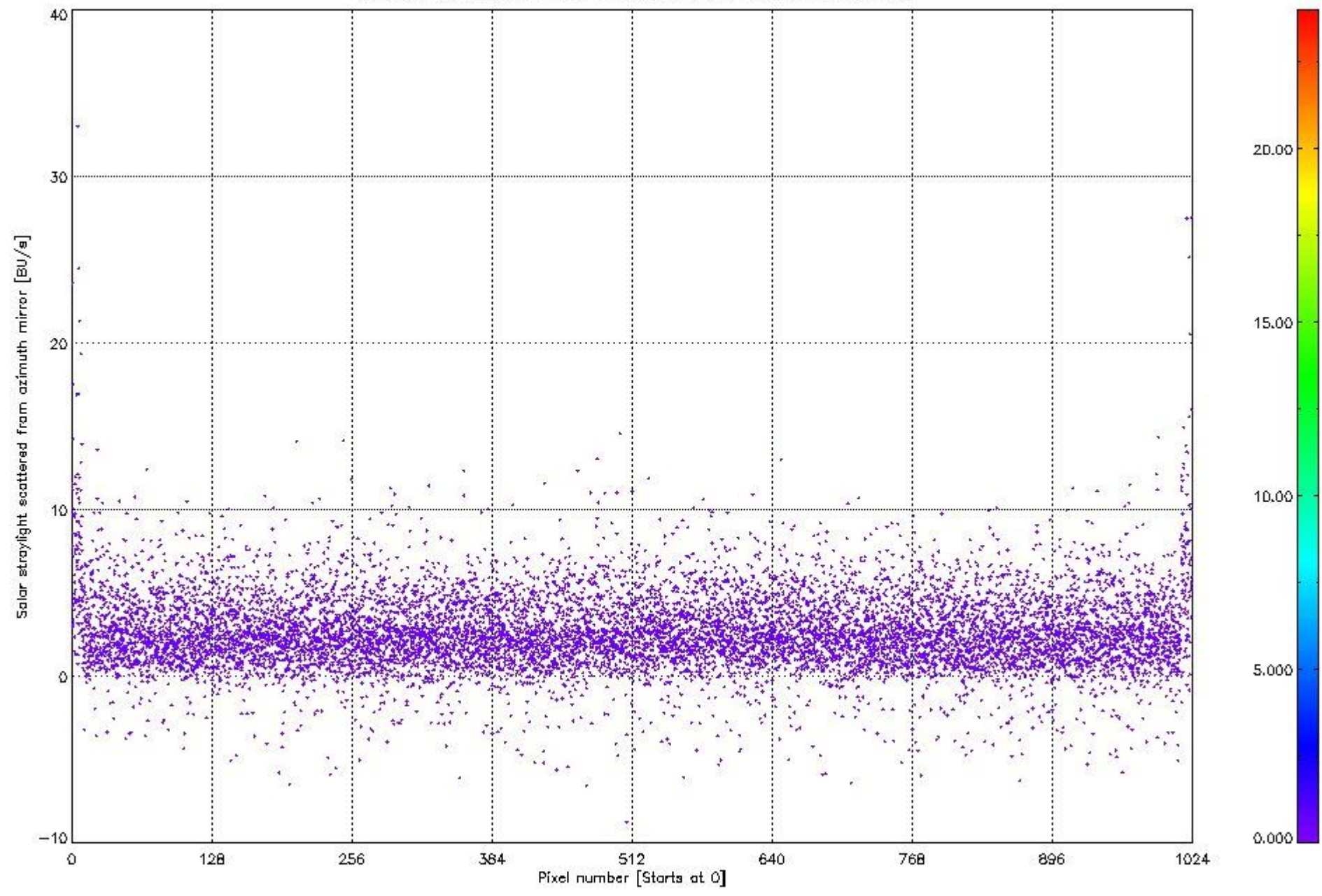


sciamachy_daily_report_level1_SCIA_7_04_W_20120306_10.PNG



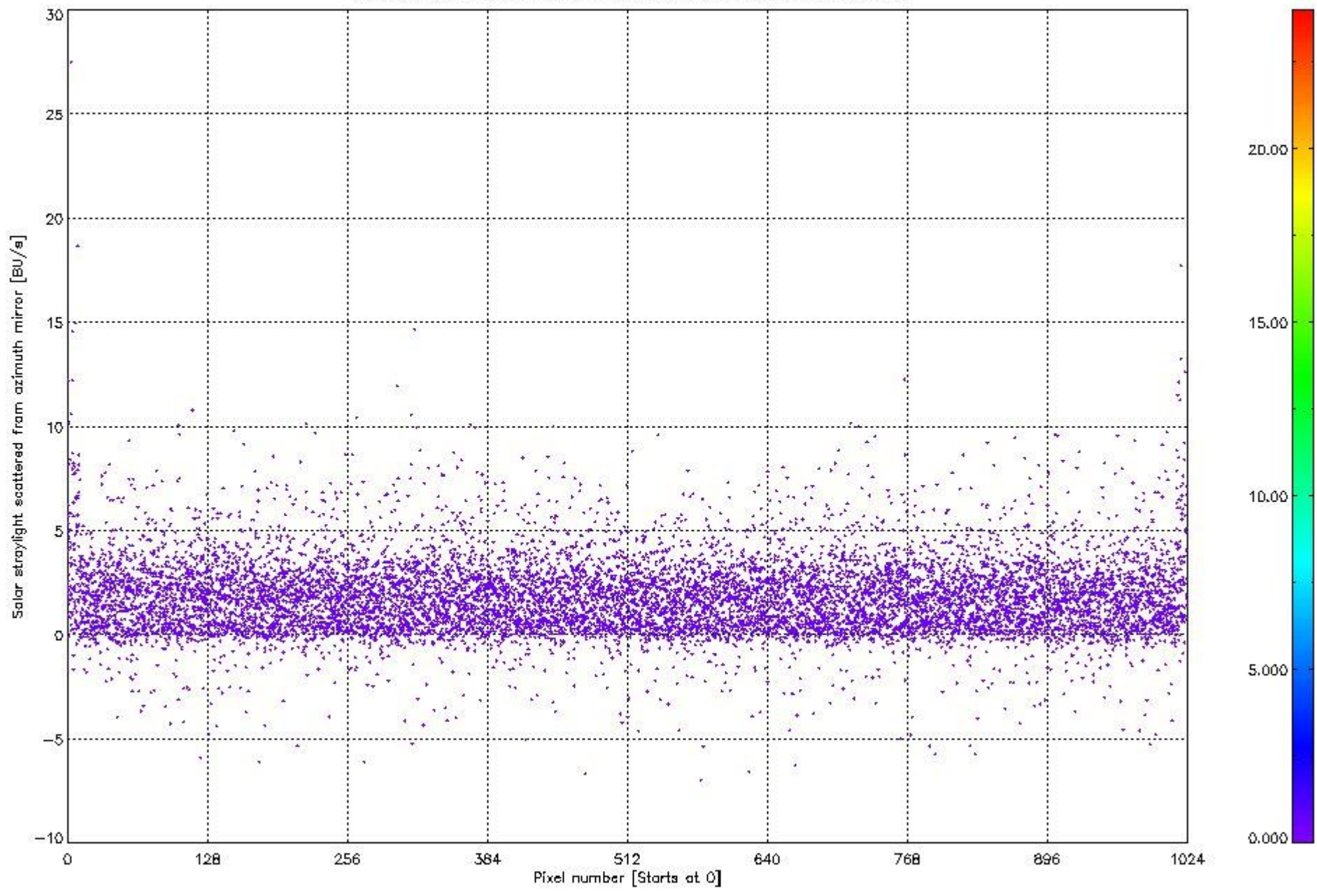


Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 2
Colours indicate the time in hours since 06MAR2012 00:00:00



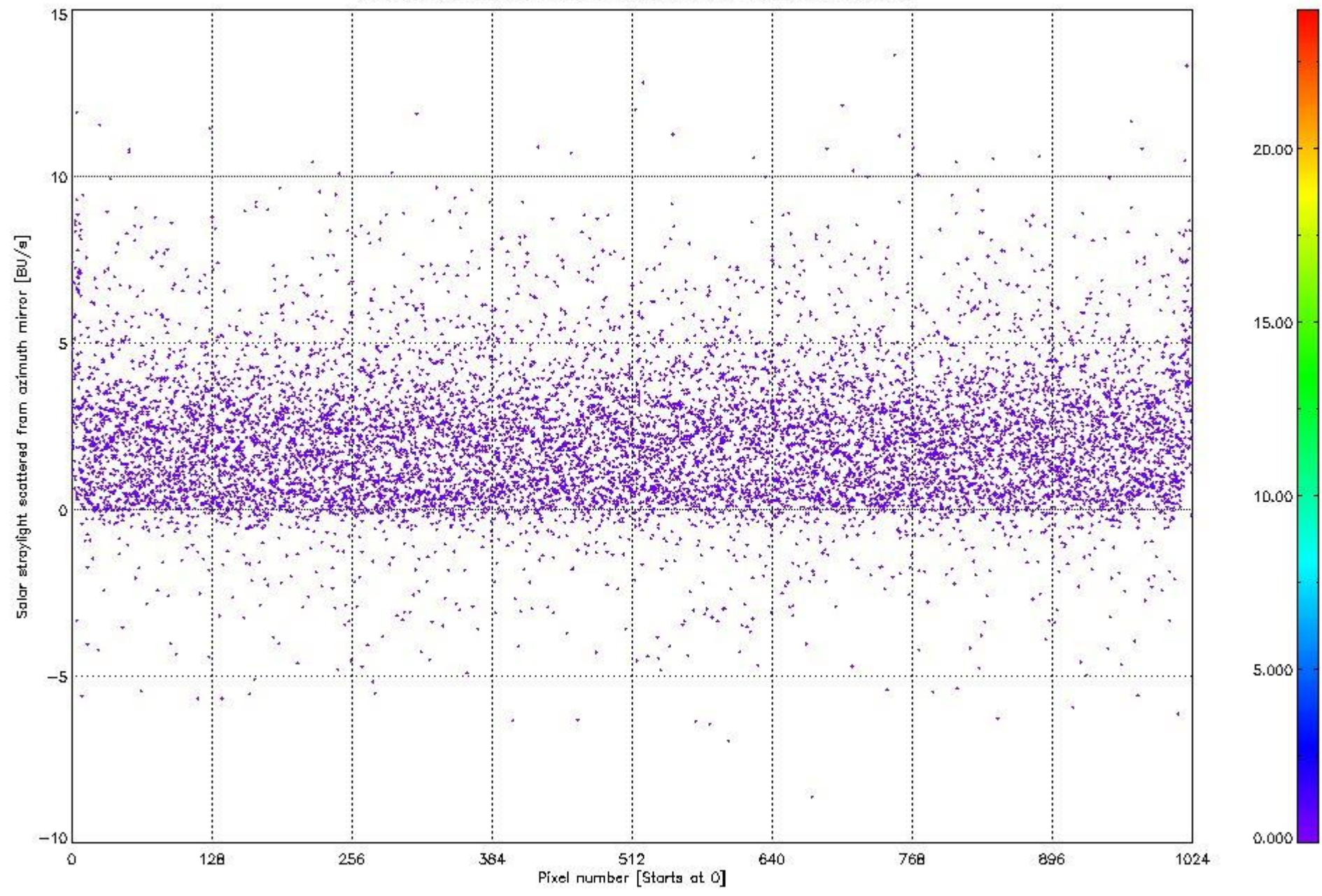
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_13.PNG

Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 3
Colours indicate the time in hours since 06MAR2012 00:00:00



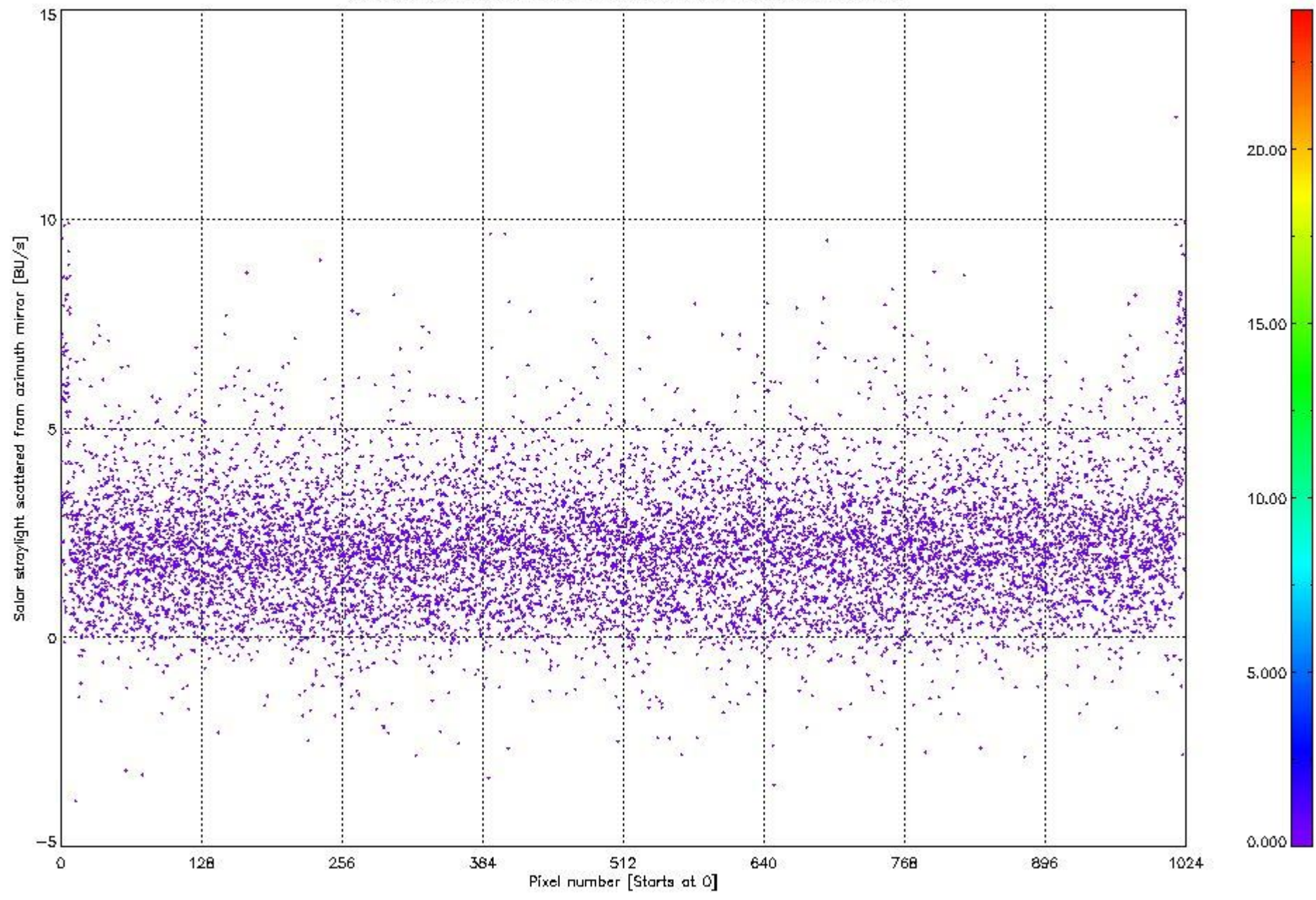
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_14.PNG

Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 4
Colours indicate the time in hours since 06MAR2012 00:00:00



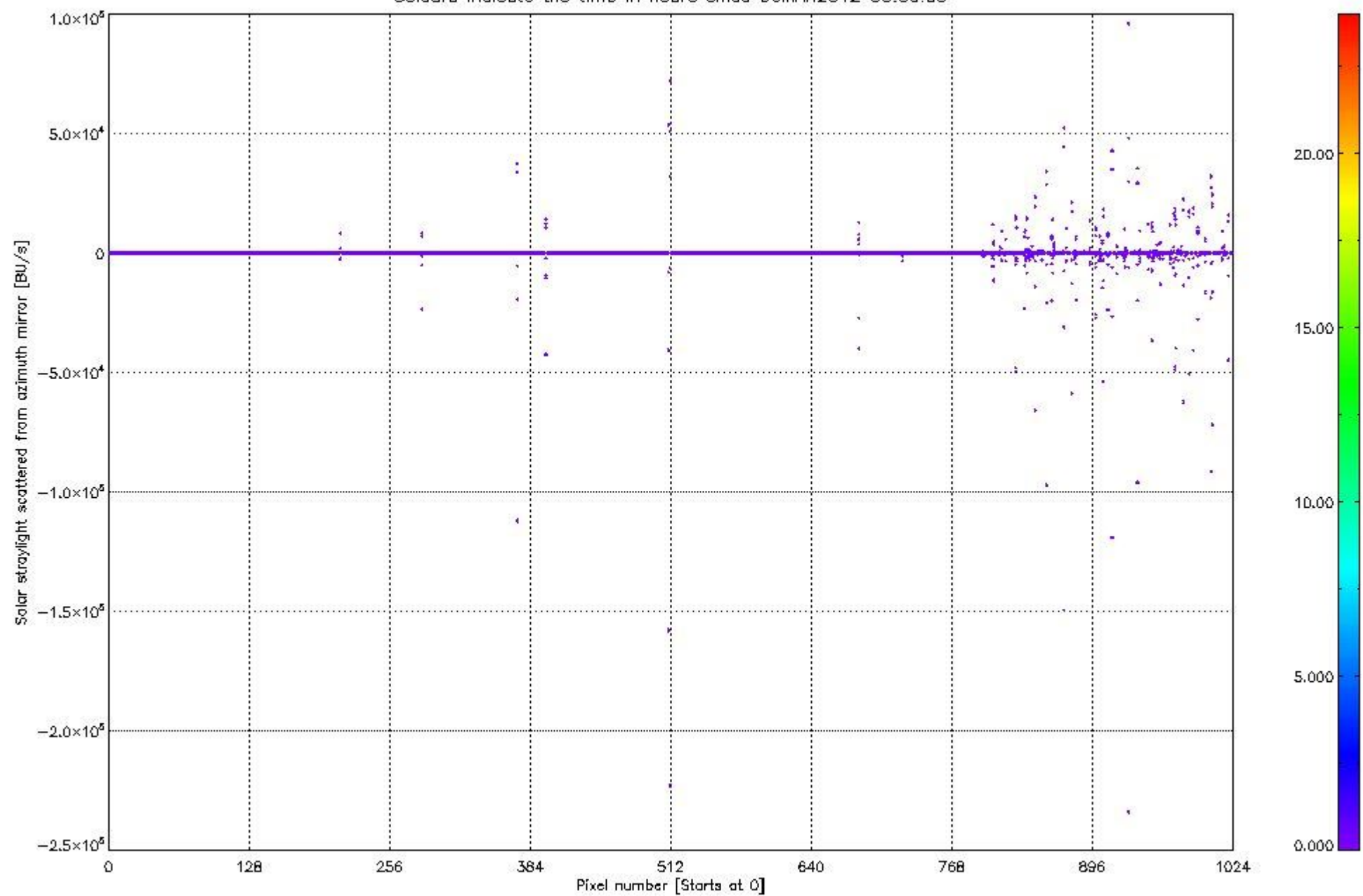
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_15.PNG

Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 5
Colours indicate the time in hours since 06MAR2012 00:00:00



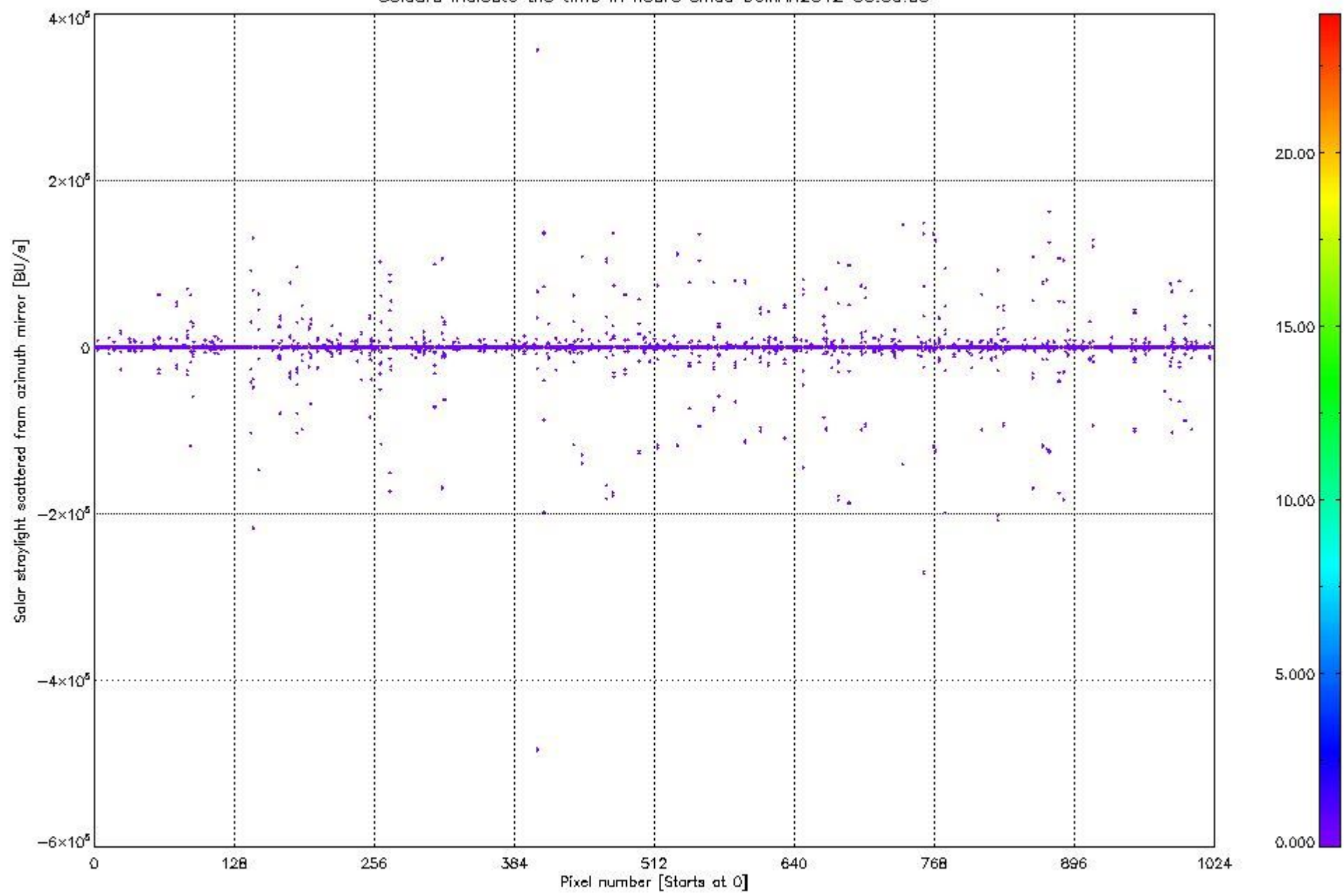
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_16.PNG

Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 6
 Colours indicate the time in hours since 06MAR2012 00:00:00

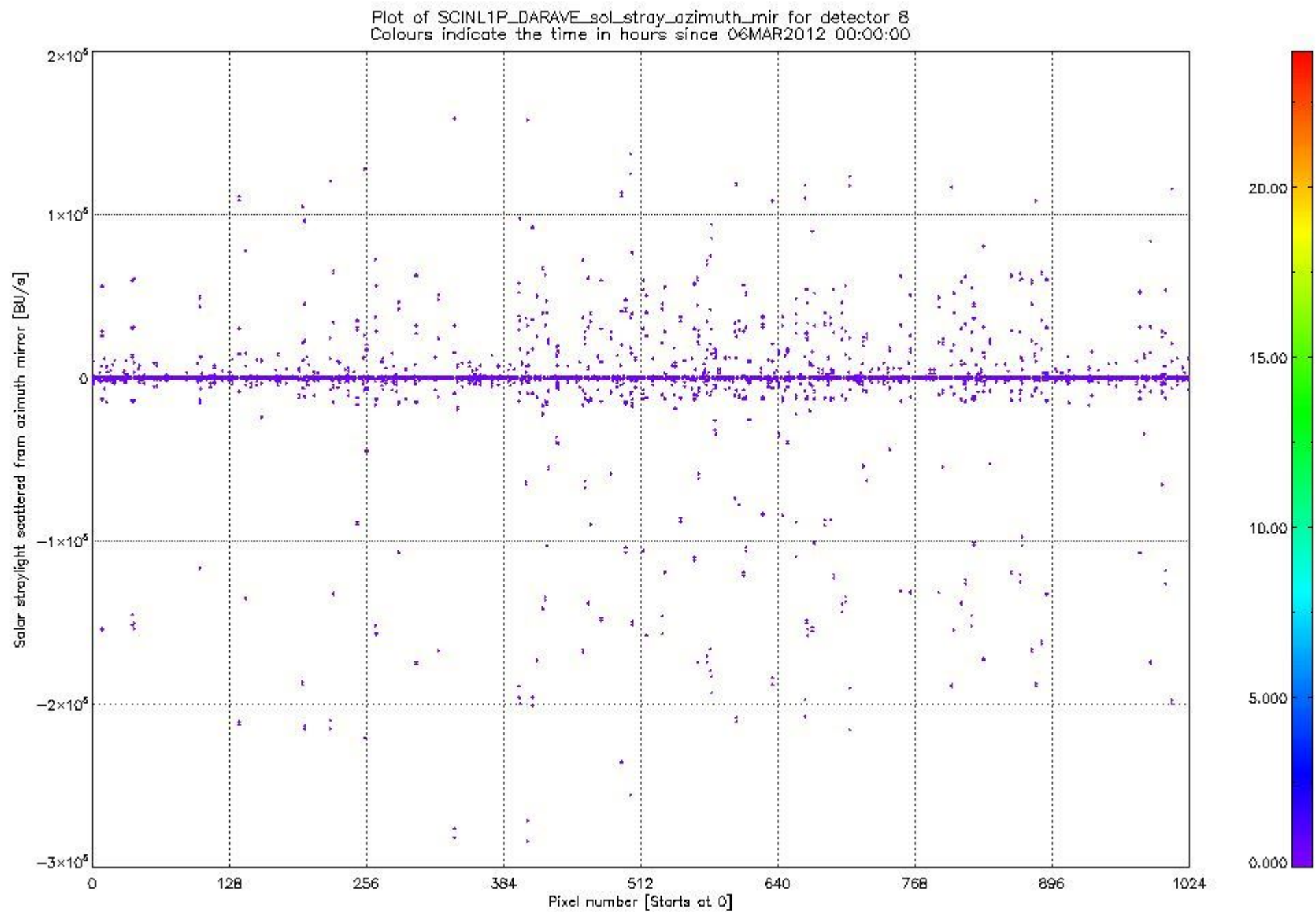


sciamachy_daily_report_level1_SCIA_7_04_W_20120306_17.PNG

Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 7
Colours indicate the time in hours since 06MAR2012 00:00:00



sciamachy_daily_report_level1_SCIA_7_04_W_20120306_18.PNG



sciamachy_daily_report_level1_SCIA_7_04_W_20120306_19.PNG

1.2.4 New leakage current parameters

(No new leakage current data available for this processing scope)

1.2.5 Spectral calibration parameters

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

1.2.6 Sun reference spectrum parameters

(No new sunref data available for this processing scope)

1.2.7 PPG and Etalon parameters

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

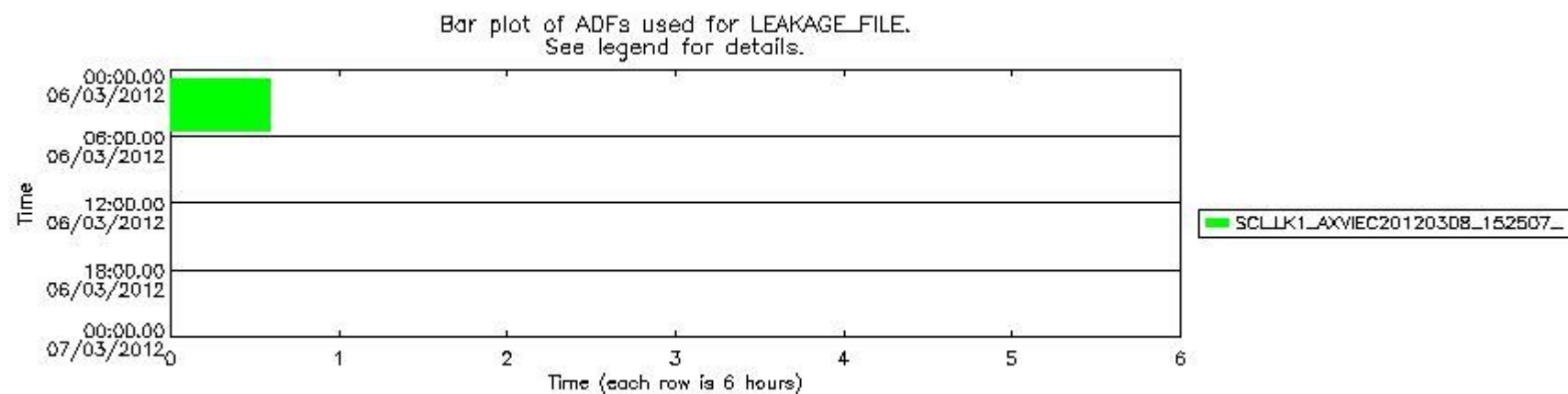
1.3 ADF monitoring

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

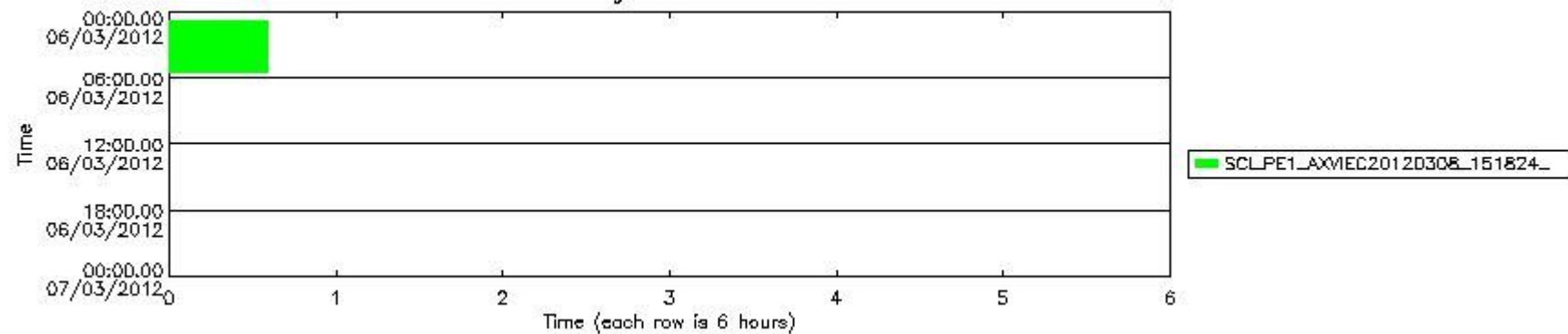
- A table showing which ADFs having a start validity of the current time scope are currently available (if present).
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which ADF was used.

No new ADFs available

Number	ADF
	LK1 (LEAKAGE_FILE)
0	SCI_LK1_AXVIEC20120308_152507_20120305_205602_20120504_224459
	PE1 (PPG_ETALON_FILE)
1	SCI_PE1_AXVIEC20120308_151824_20120305_224411_20120320_002308
	SP1 (SPECTRAL_FILE)
2	SCI_SP1_AXVIEC20120210_035013_20120206_213201_20120506_230407
	SU1 (SUN_REF_FILE)
3	SCI_SU1_AXVIEC20120308_153049_20120305_195018_20120320_205711
	KD1 (KEY_DATA_FILE)
4	SCI_KD1_AXNIEC20091126_123849_20020301_000000_20991231_235959
	MF1 (M_FACTOR_FILE)
5	NOT USED
	LI1 (INIT_FILE)
6	SCI_LI1_AXNIEC20091126_125714_20020701_000000_20991231_235959
	FRO (ORBIT_FILE)
7	AUX_FRO_AXVPDS20120308_232629_20120305_221000_20120308_005000
	ATT (ATTITUDE_FILE)
8	AUX_FRA_AXVFOS20120308_180501_20120305_000000_20120307_000000

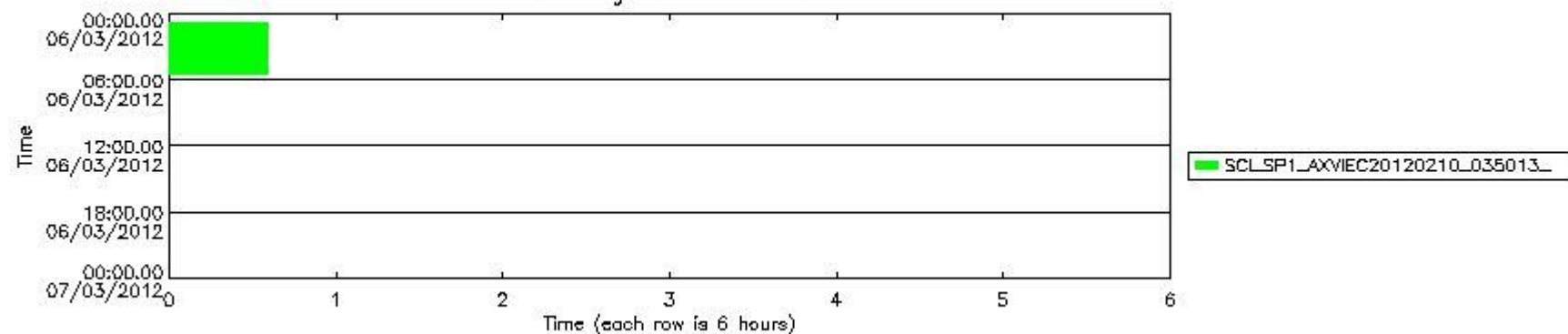


Bar plot of ADFs used for PPG_ETALON_FILE.
See legend for details.



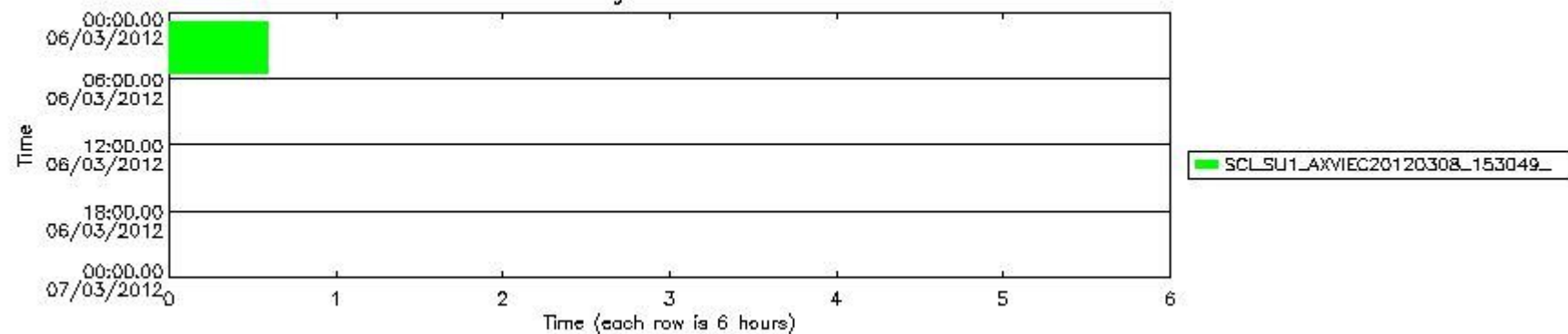
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_21.PNG

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



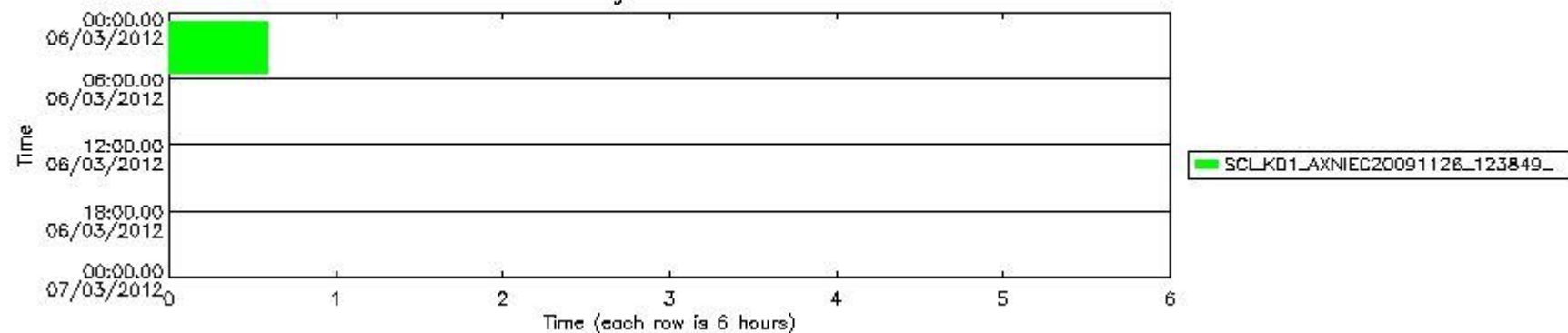
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_22.PNG

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

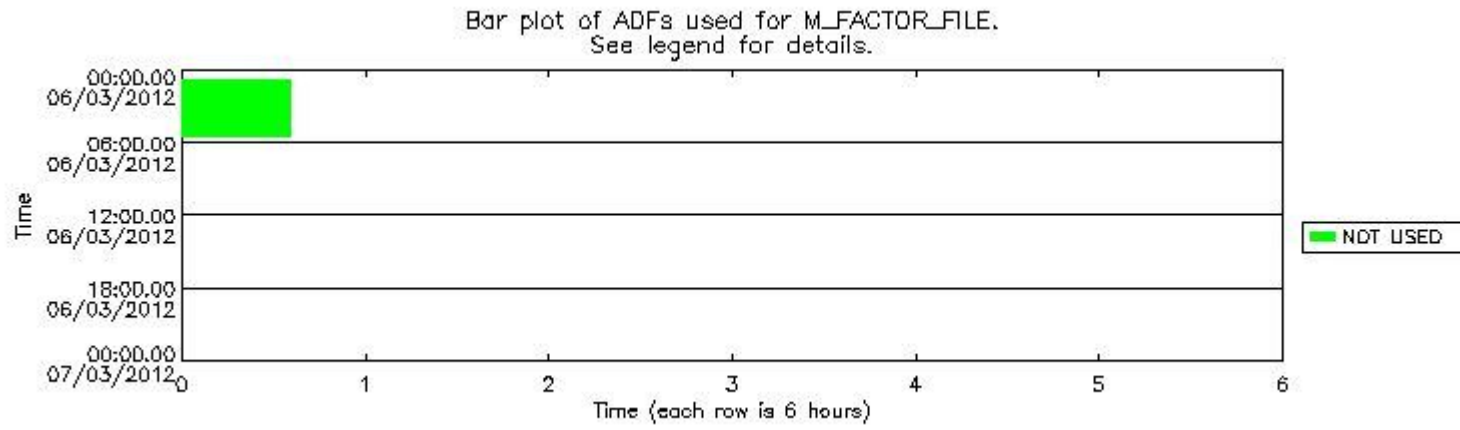


sciamachy_daily_report_level1_SCIA_7_04_W_20120306_23.PNG

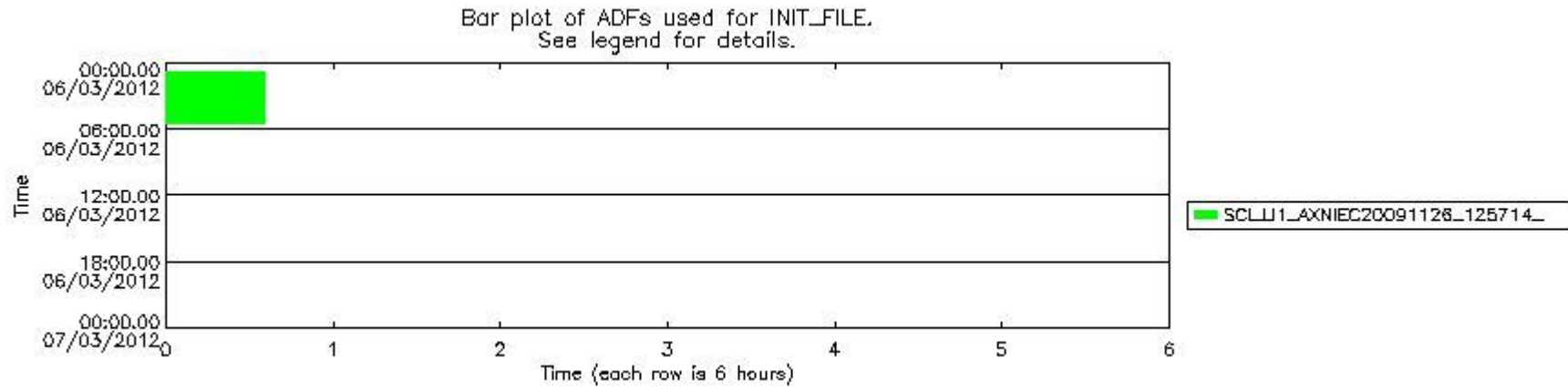
Bar plot of ADFs used for KEY_DATA_FILE.
See legend for details.



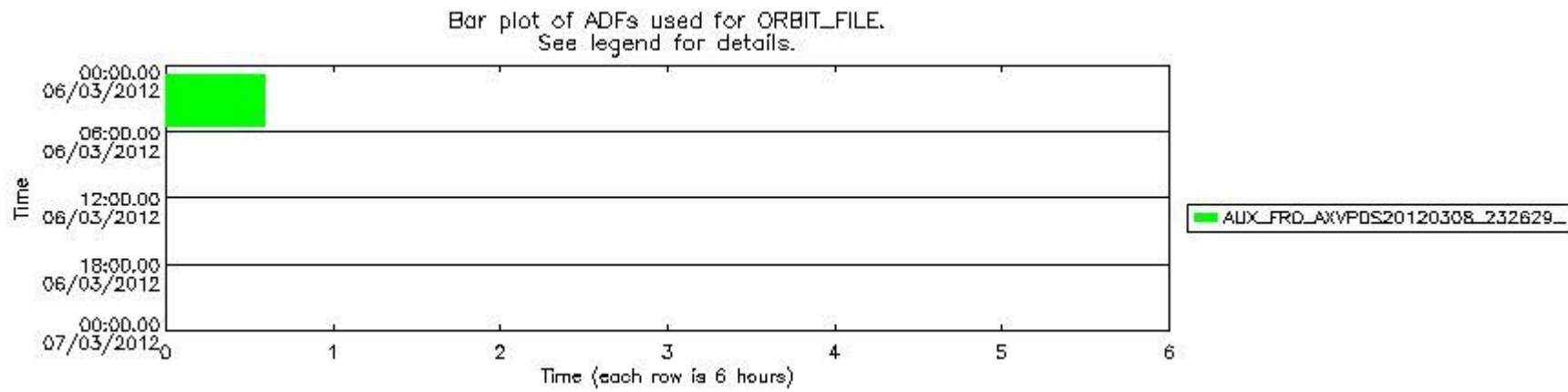
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_24.PNG



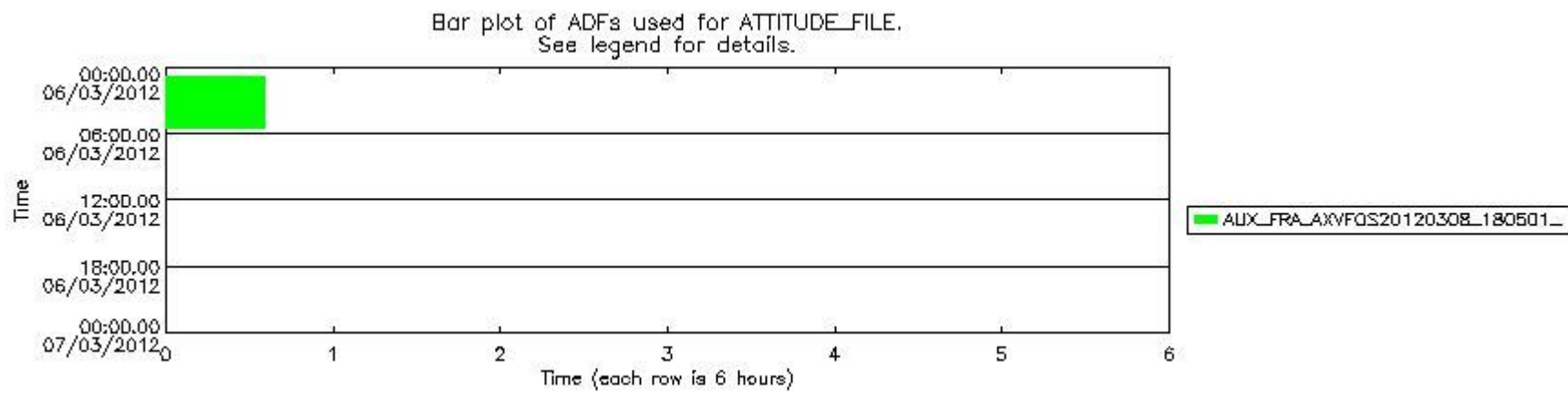
sciamachy_daily_report_level1_SCIA_7_04_W_20120306_25.PNG



sciamachy_daily_report_level1_SCIA_7_04_W_20120306_26.PNG



sciamachy_daily_report_level1_SCIA_7_04_W_20120306_27.PNG

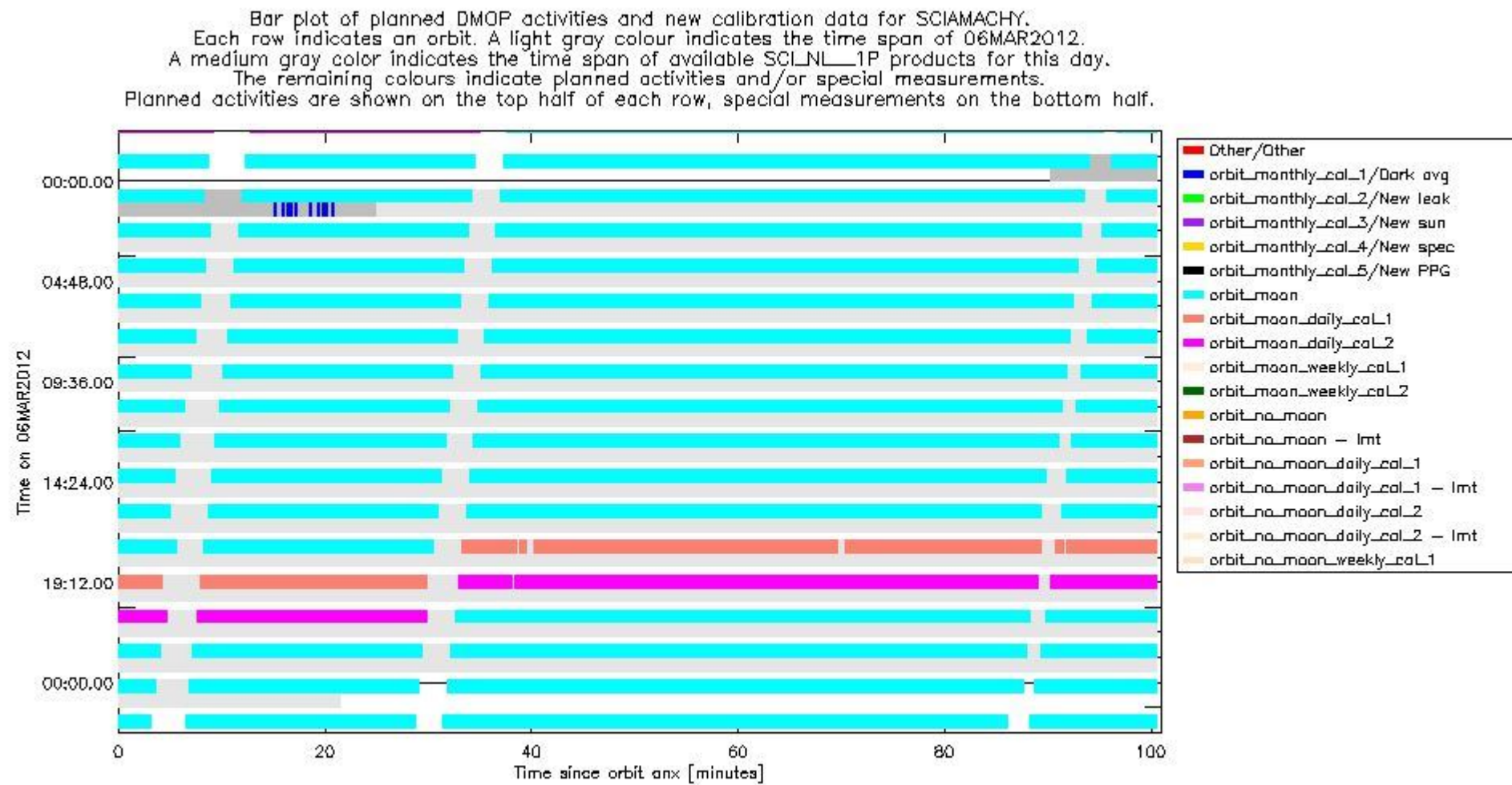


sciamachy_daily_report_level1_SCIA_7_04_W_20120306_28.PNG

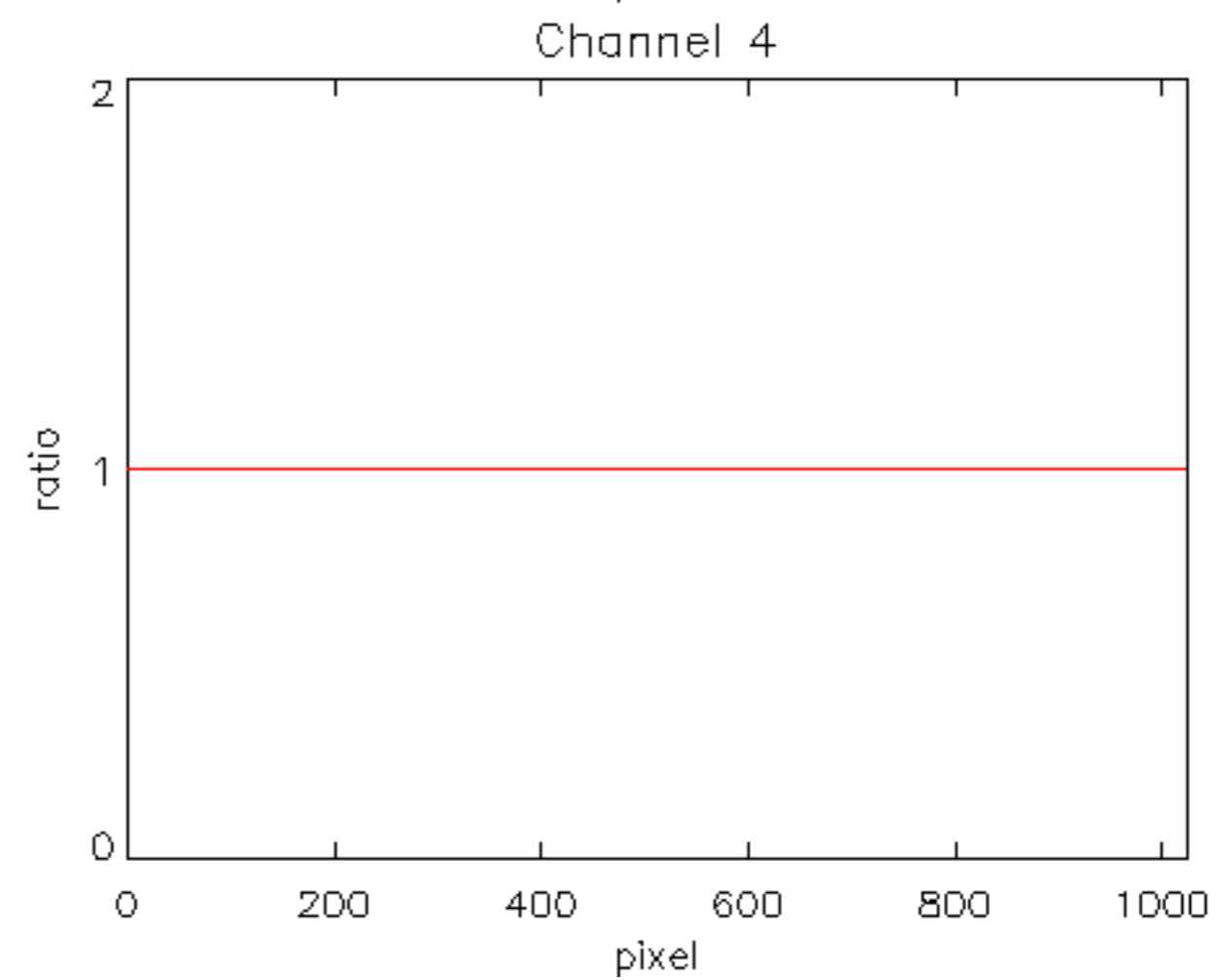
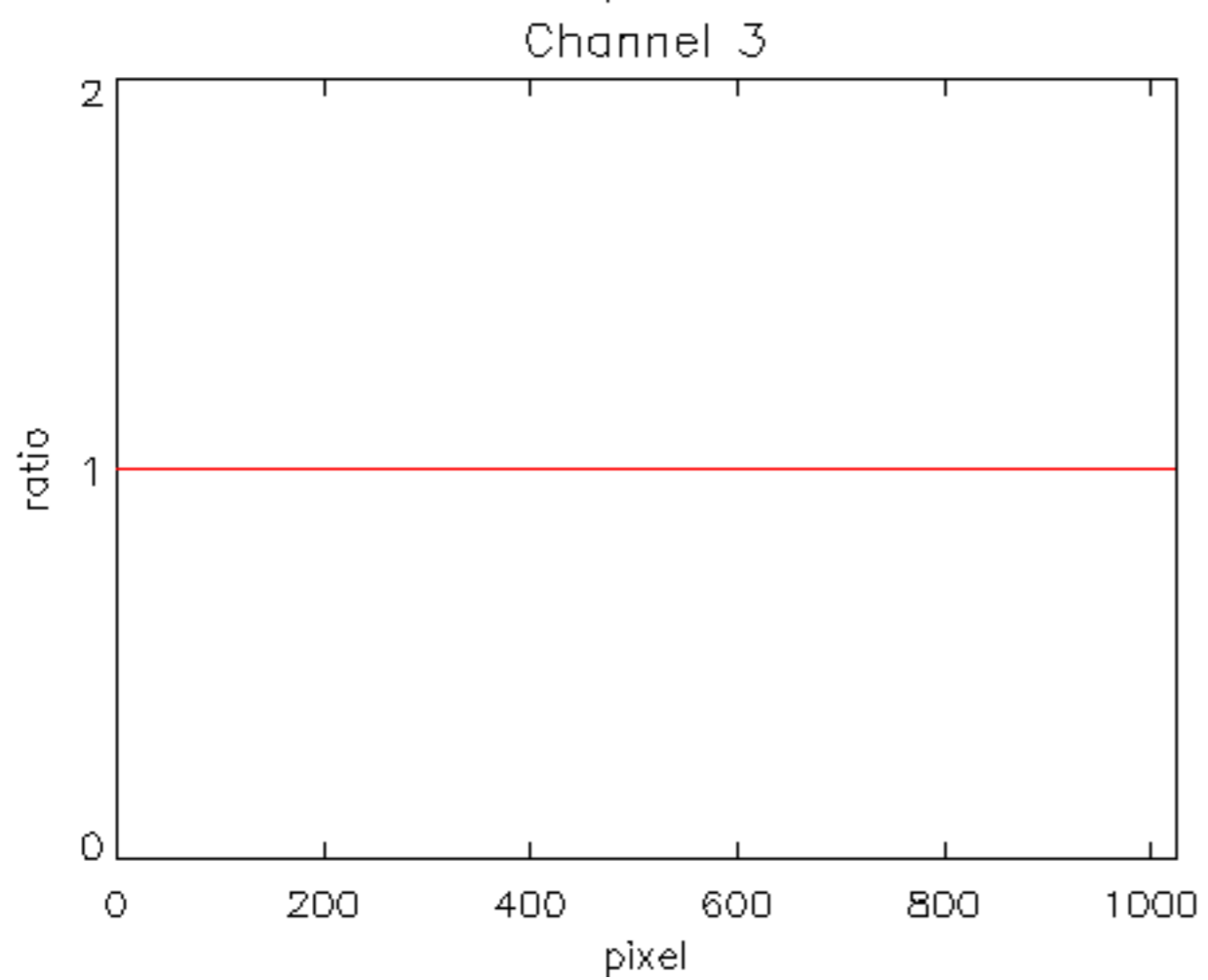
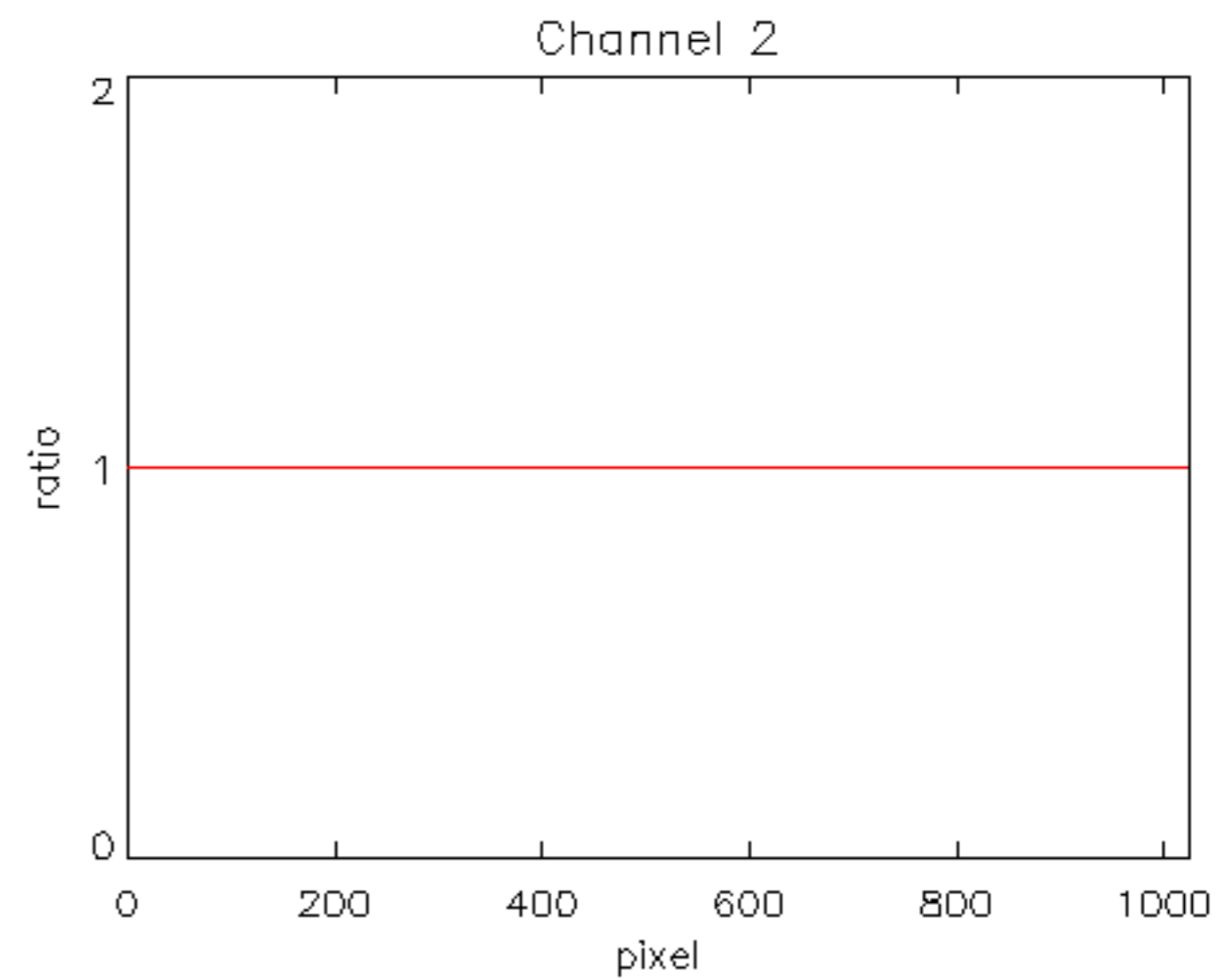
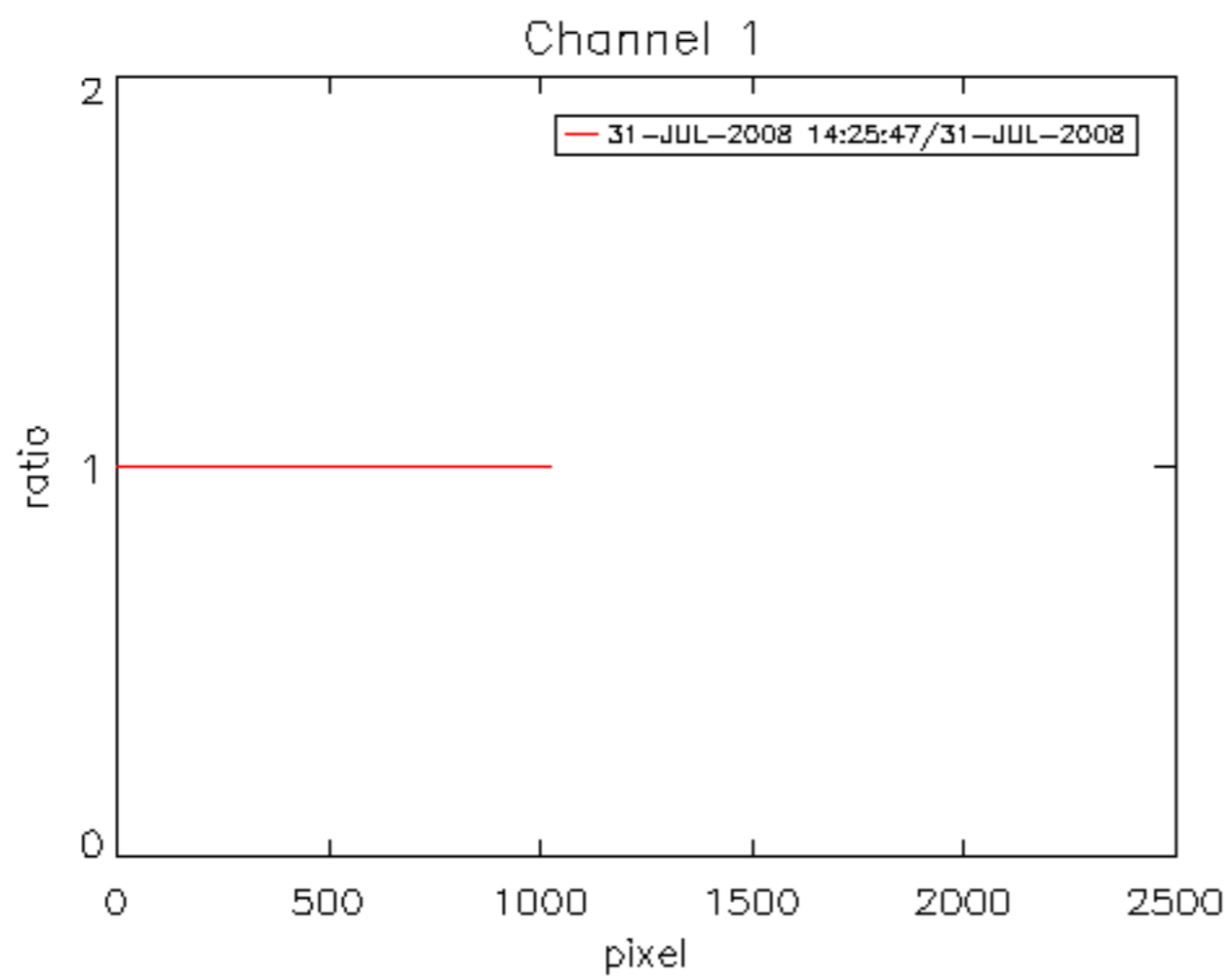
1.4 DMOP execution monitoring

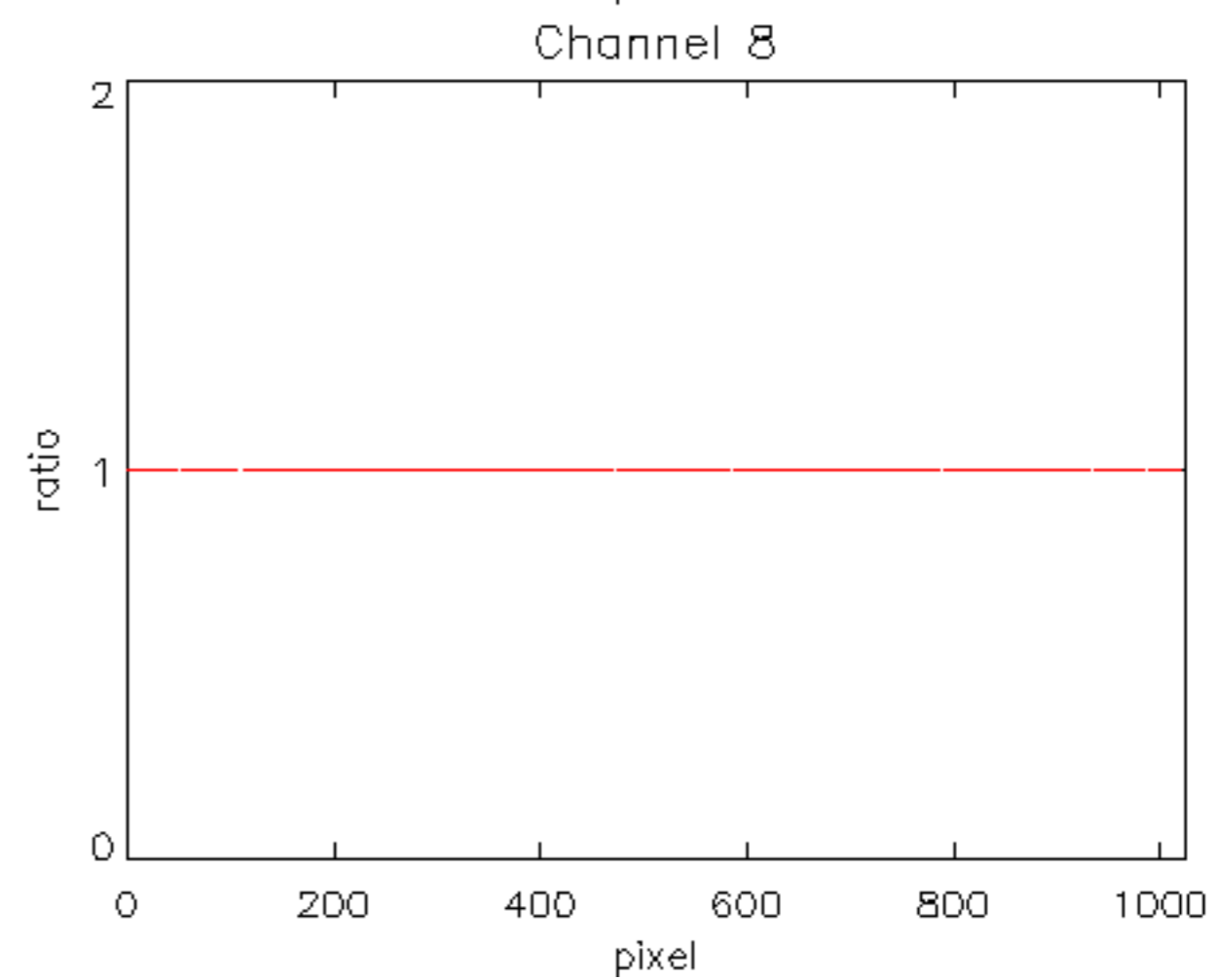
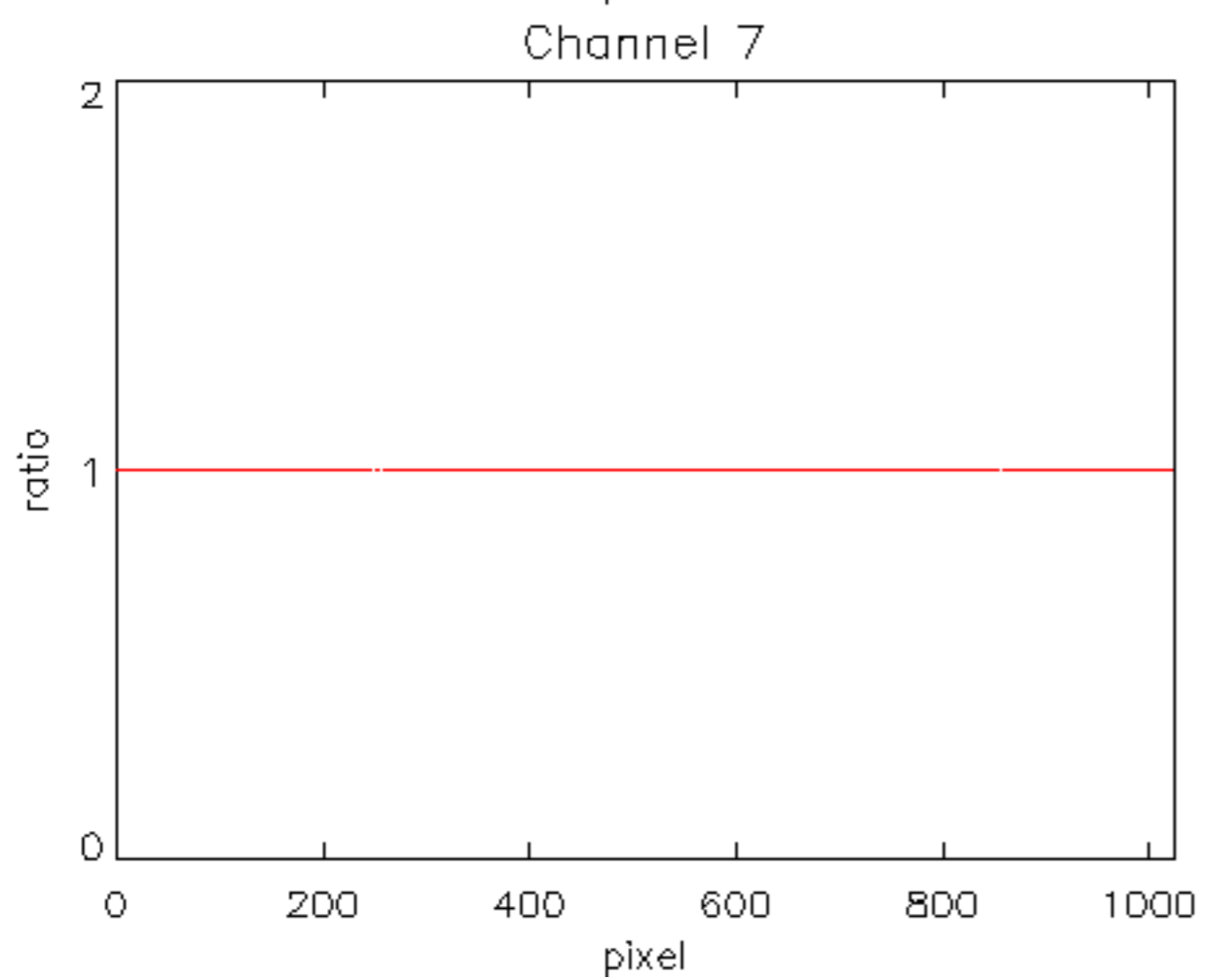
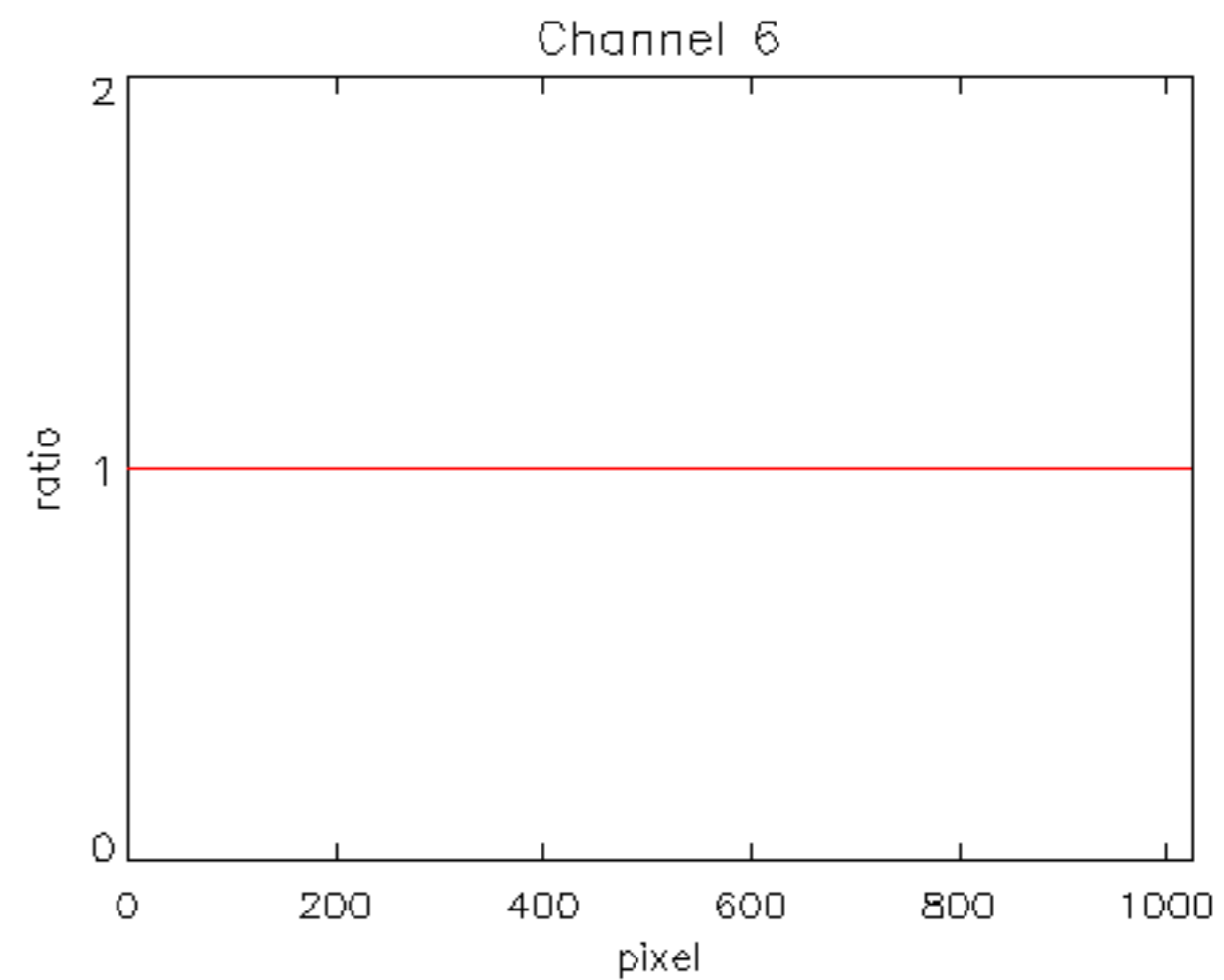
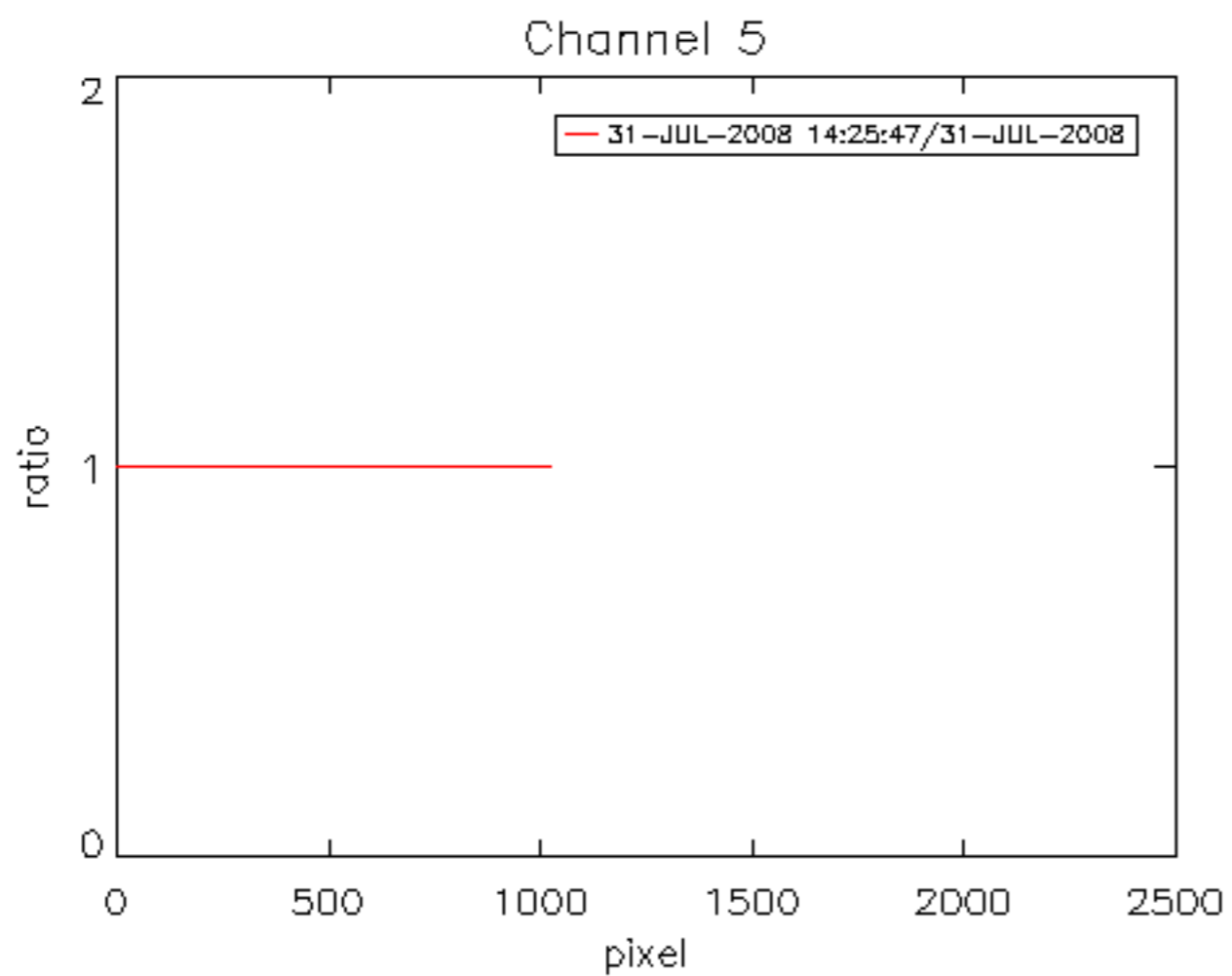
This section gives an analysis of the DMOP execution. The execution is monitored by assigning various activities to timeline sequences found in the DMOP file, and by checking where "NEW" datasets are available in SCI_NL__1P products.

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.

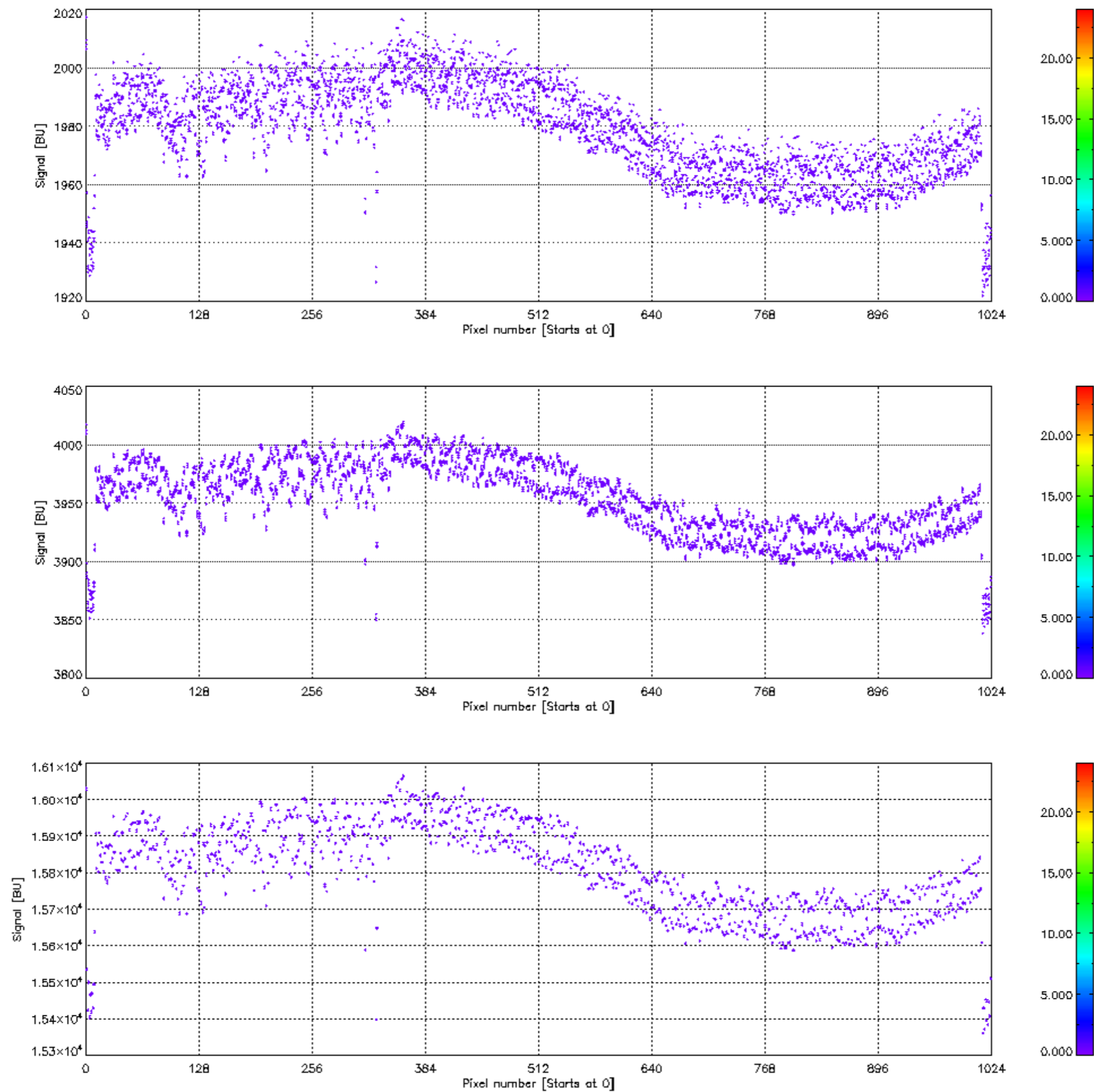


sciamachy_daily_report_level1_SCIA_7_04_W_20120306_29.PNG

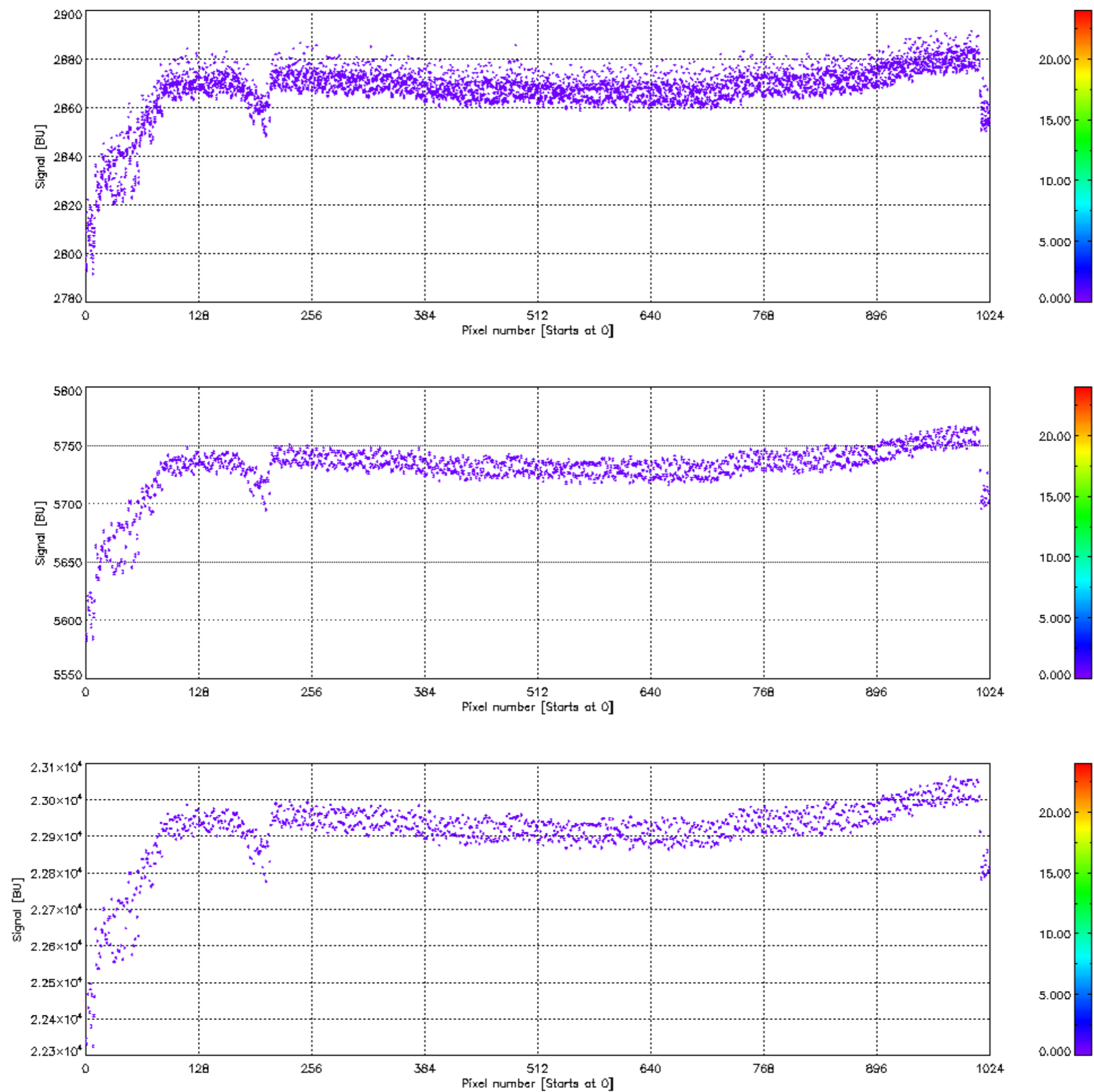




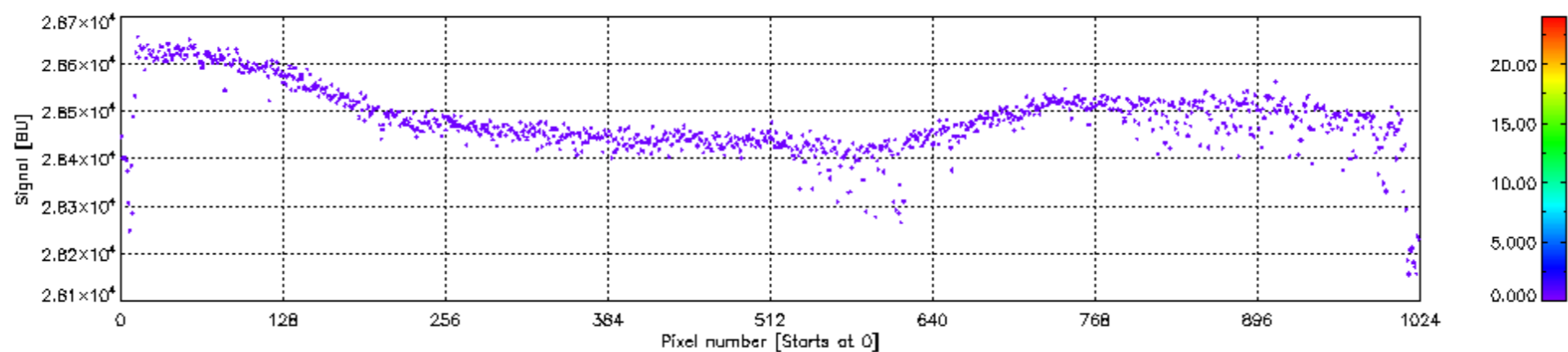
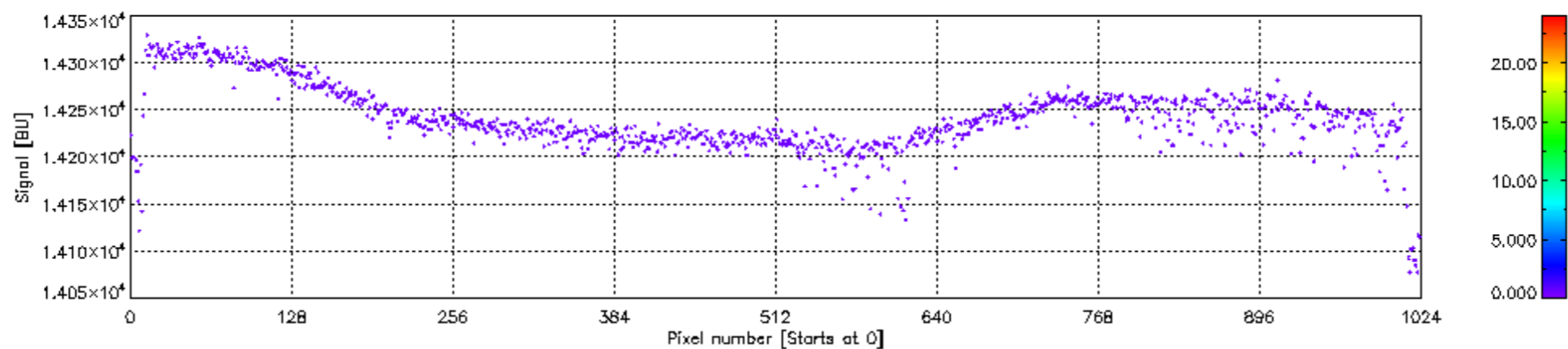
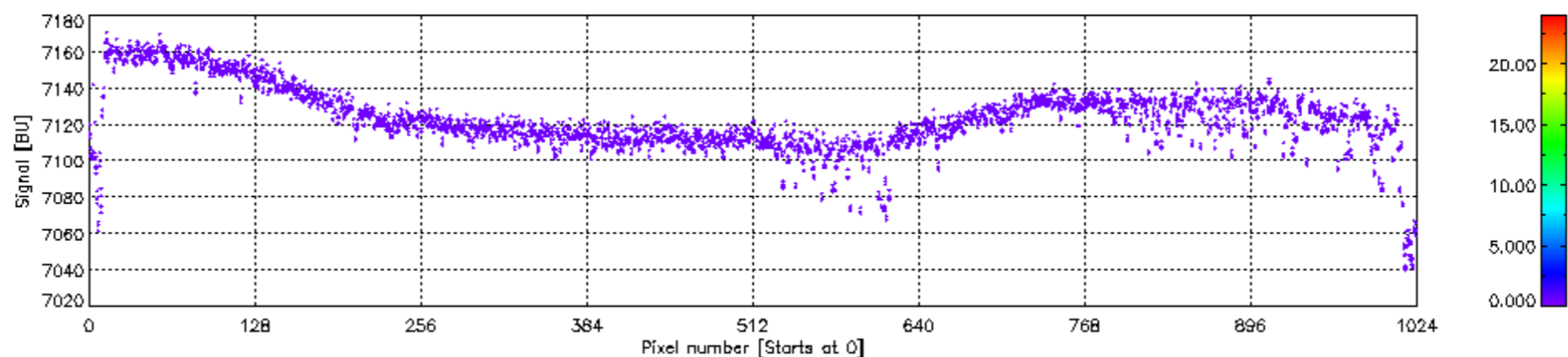
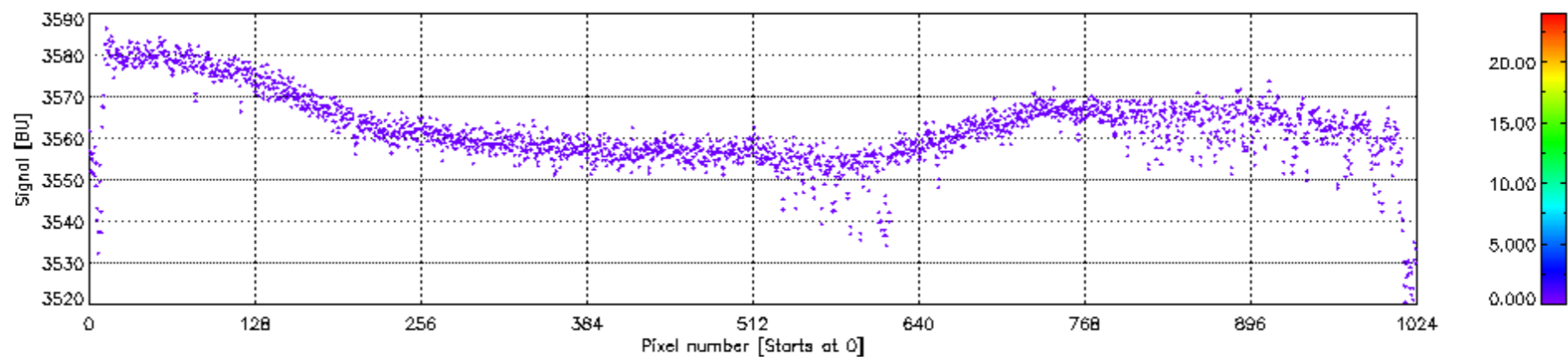
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 1 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



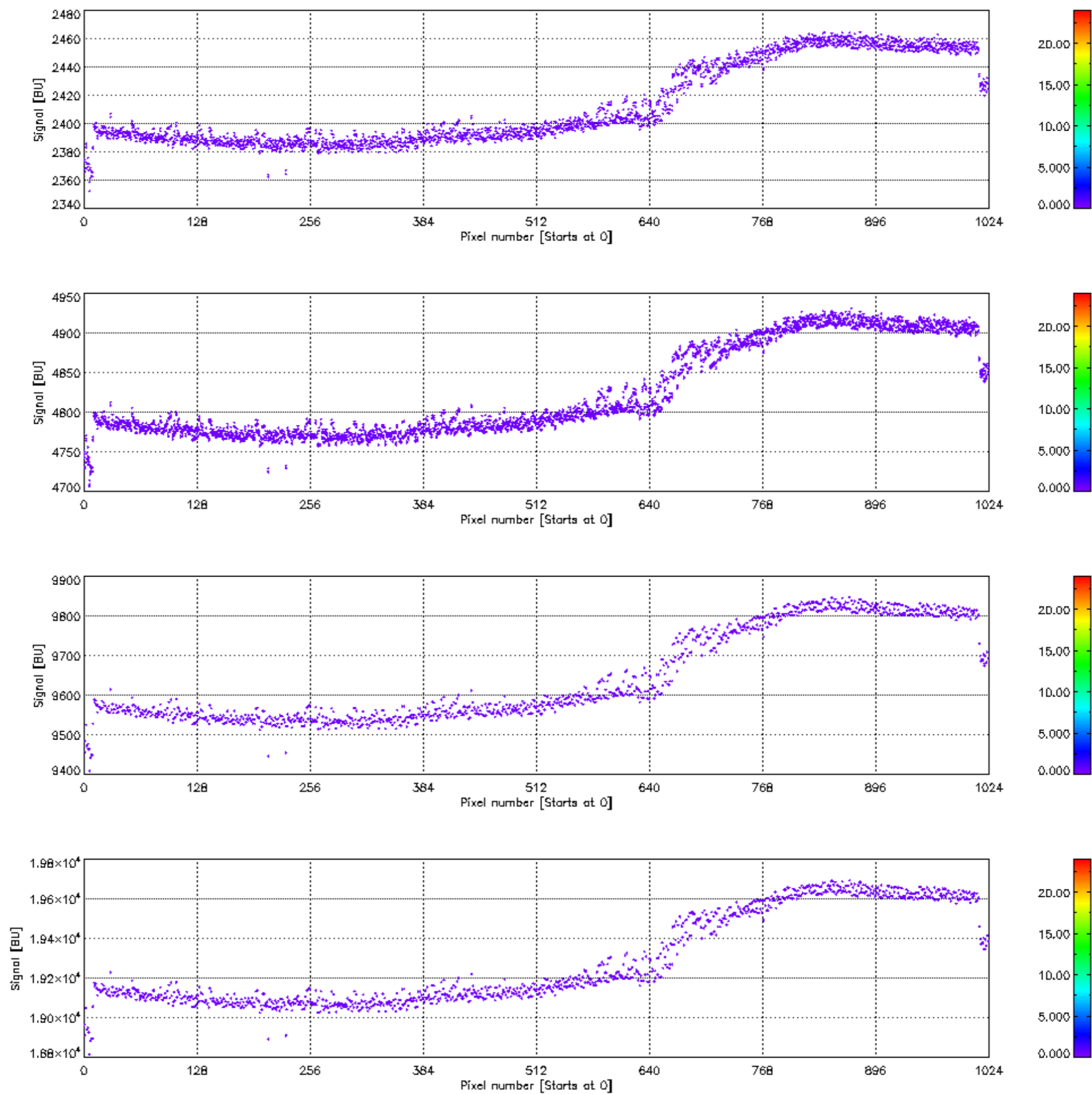
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 2 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



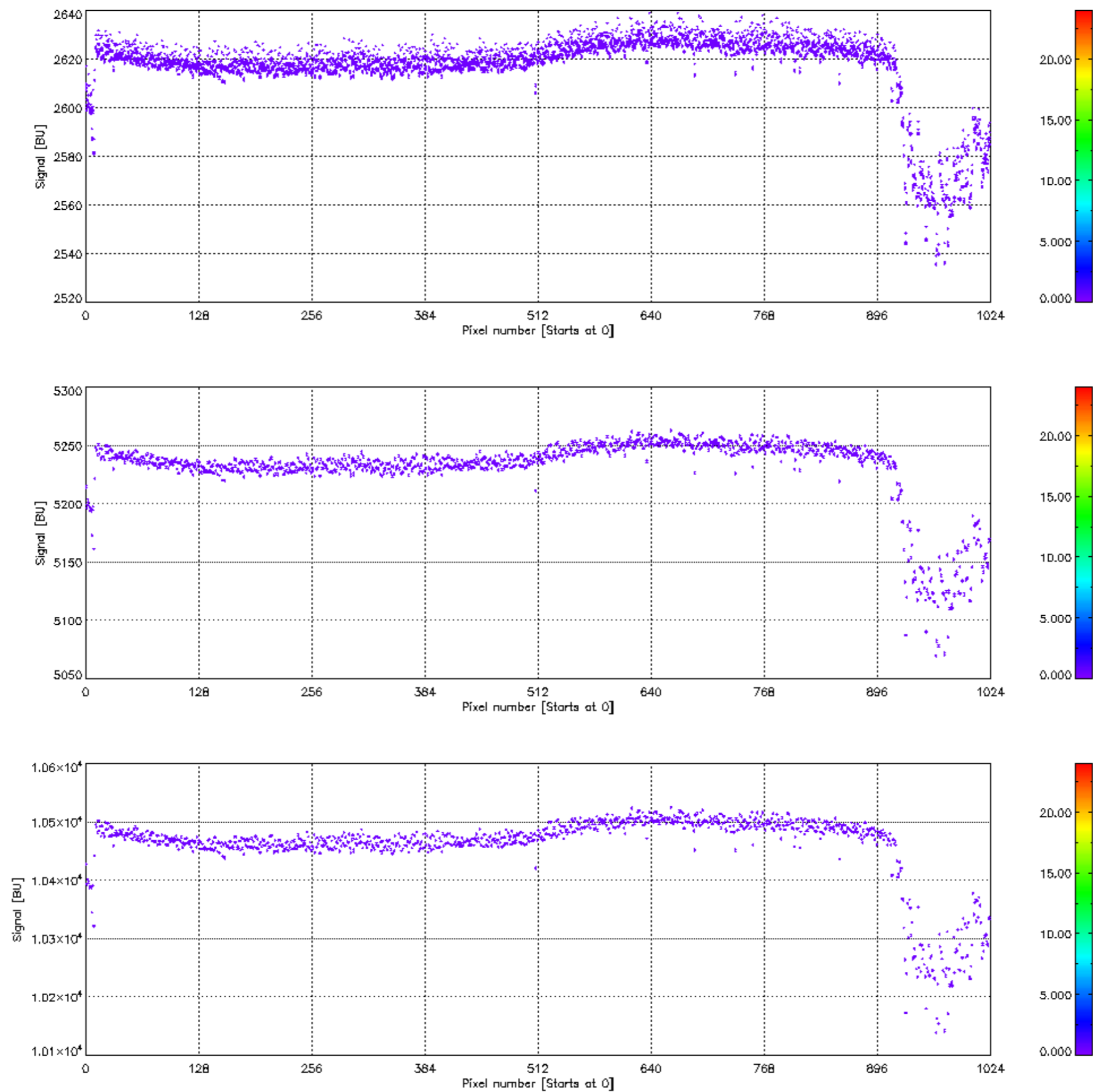
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 3 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



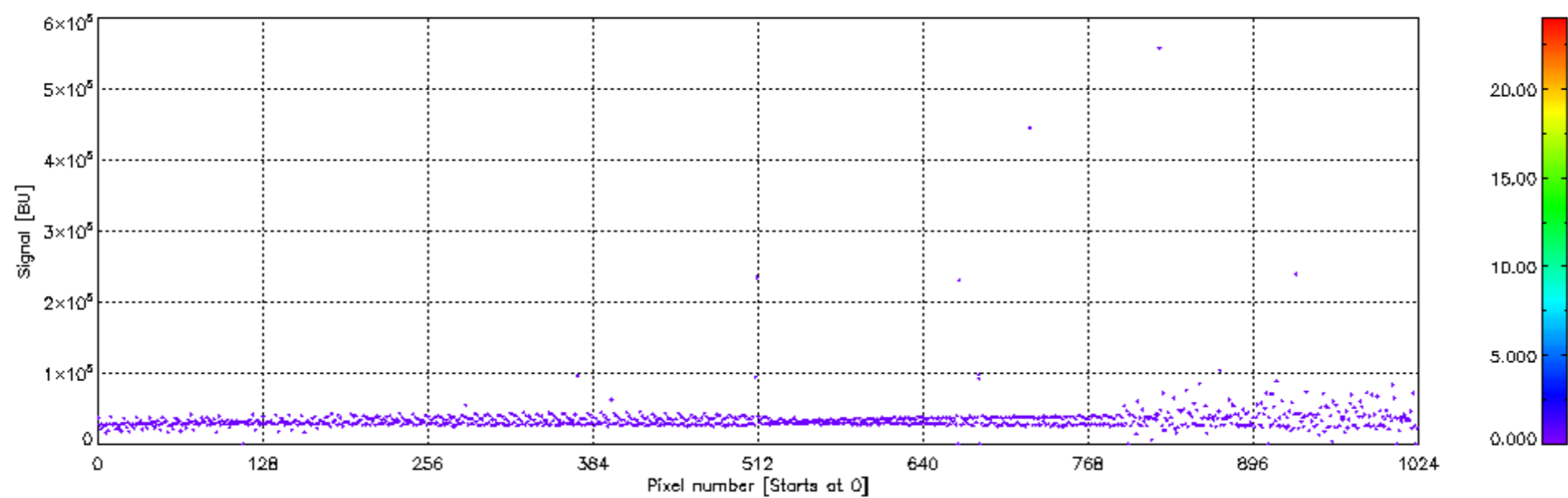
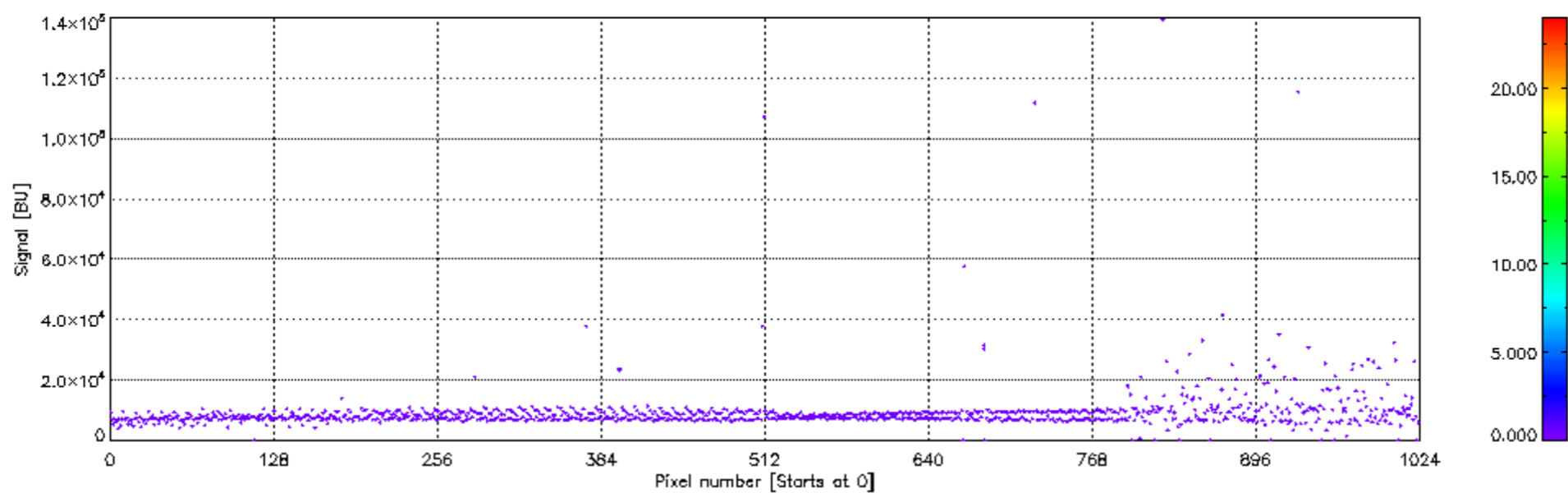
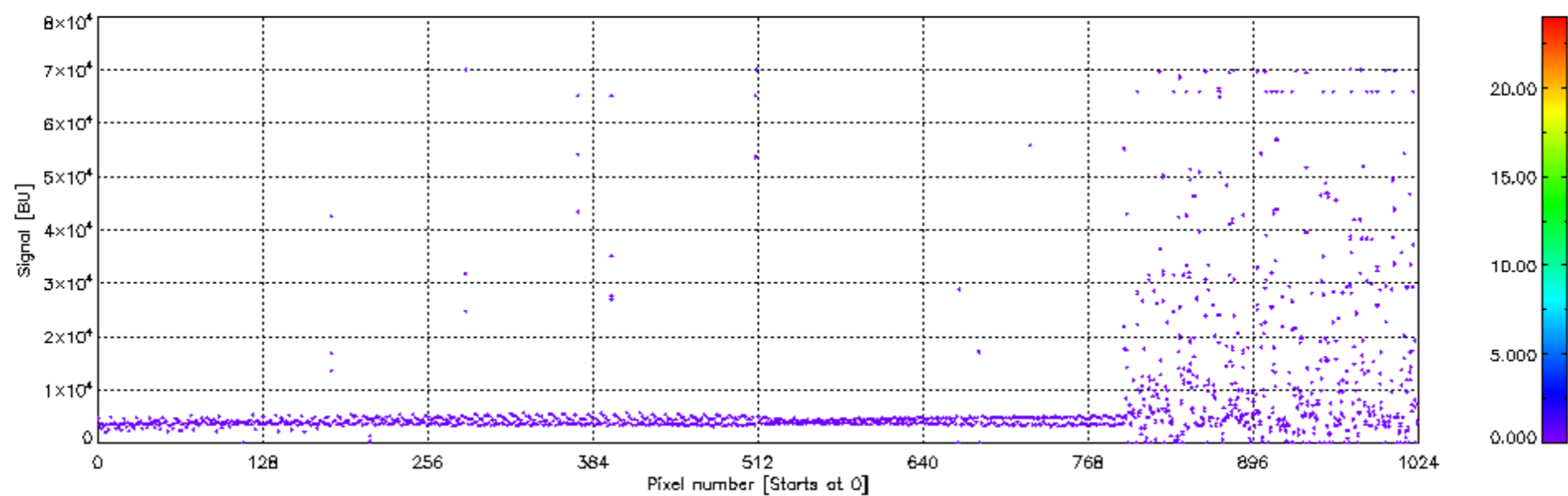
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 4 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



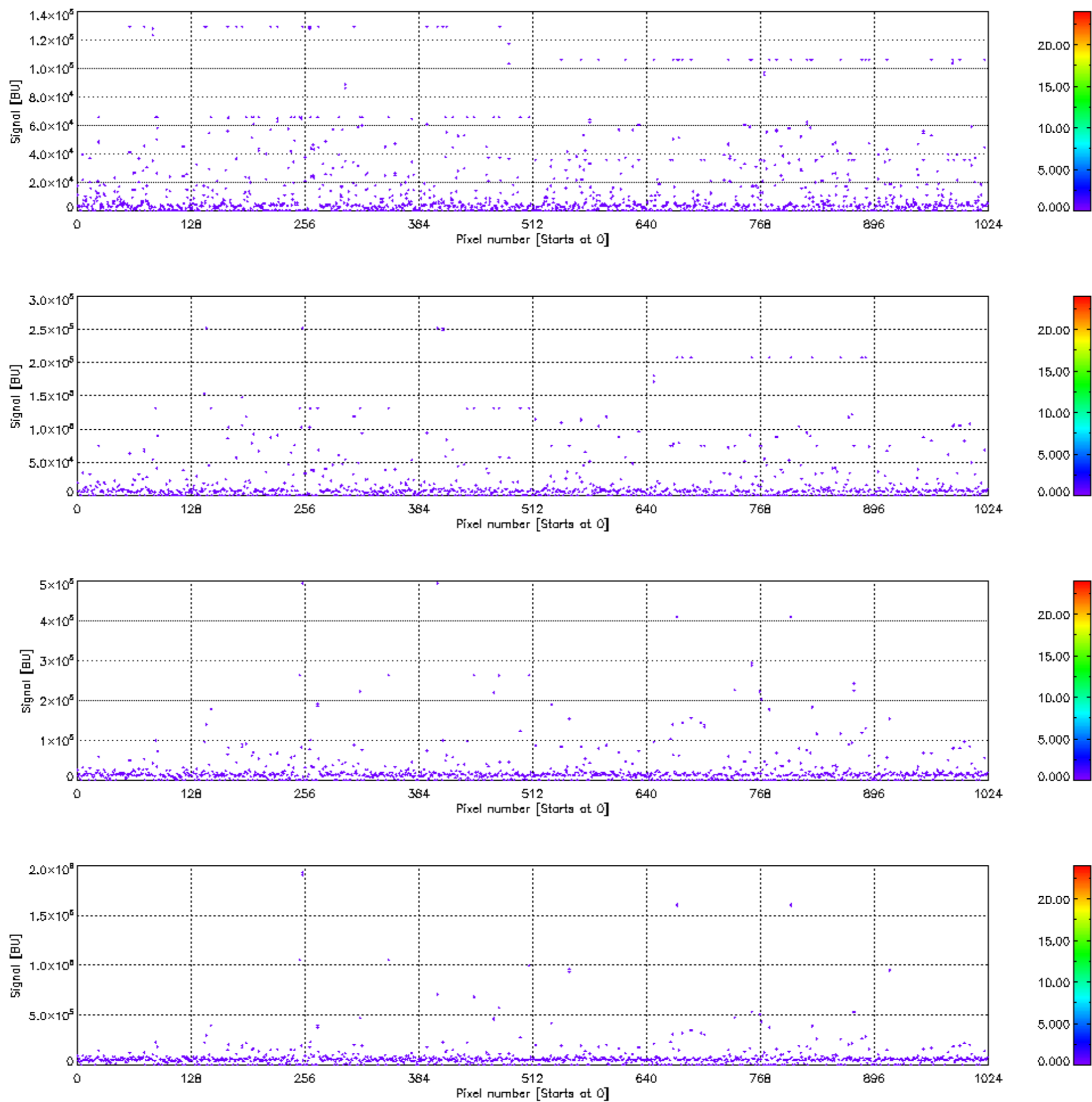
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 5 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



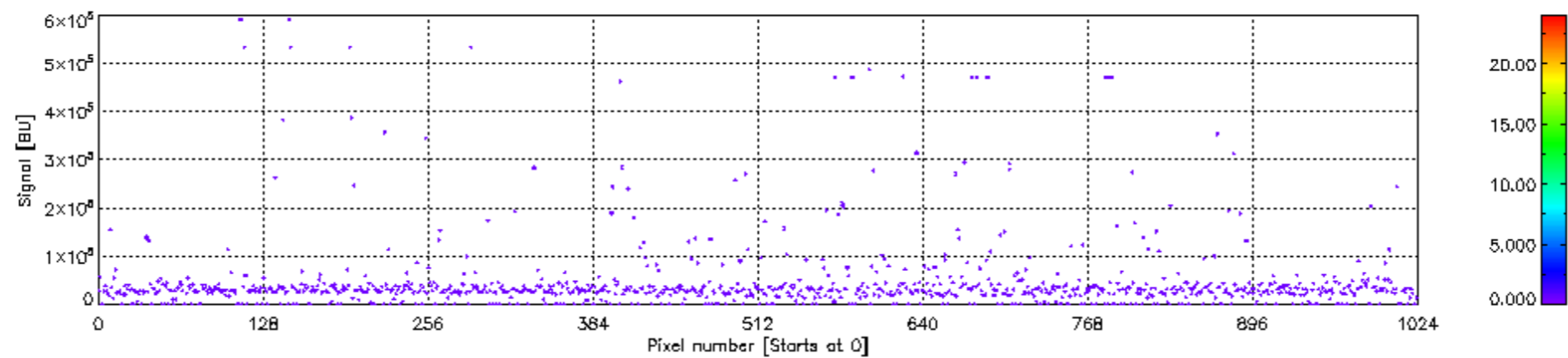
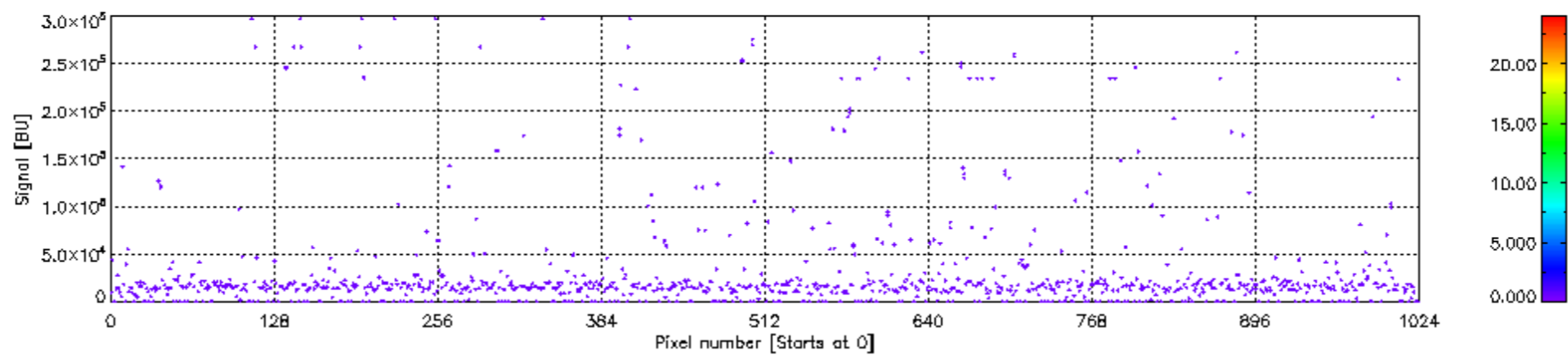
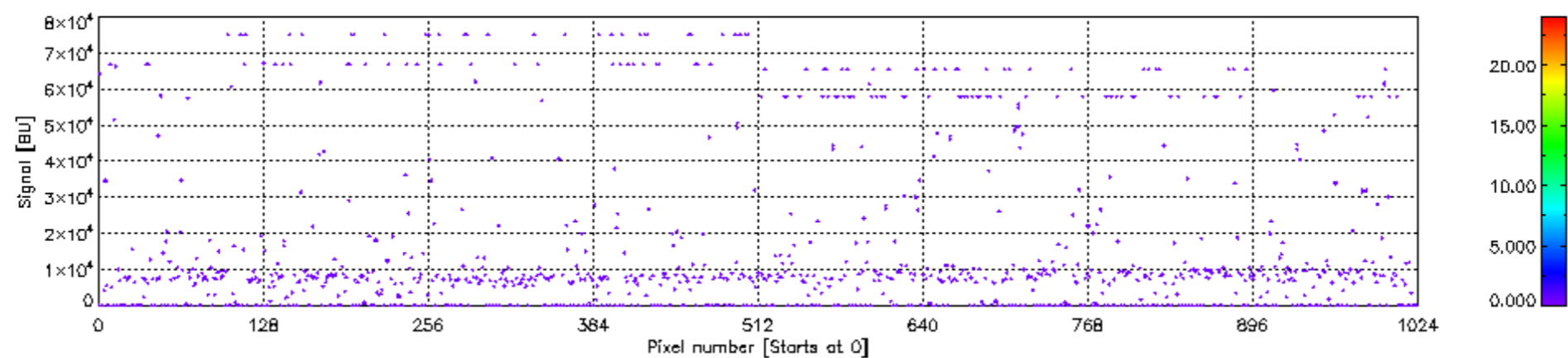
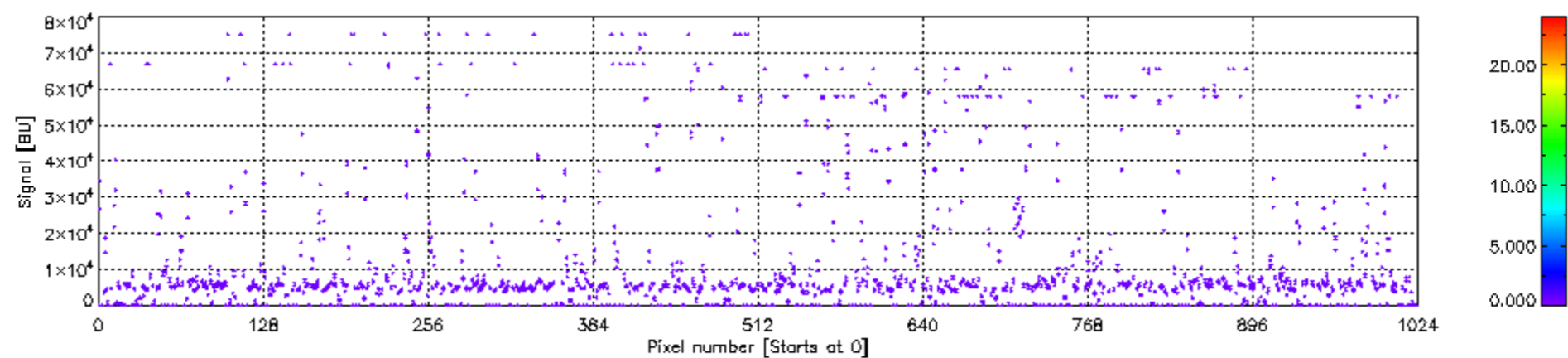
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 6 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00

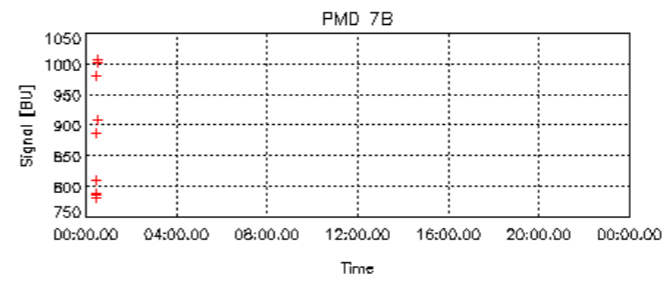
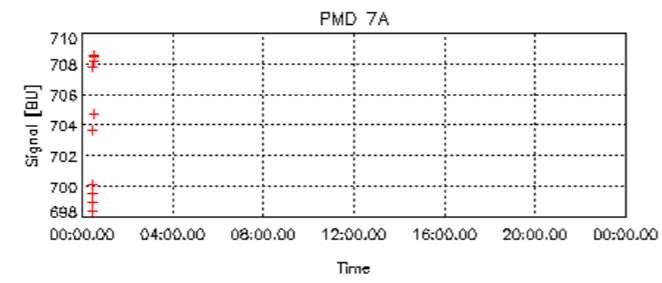
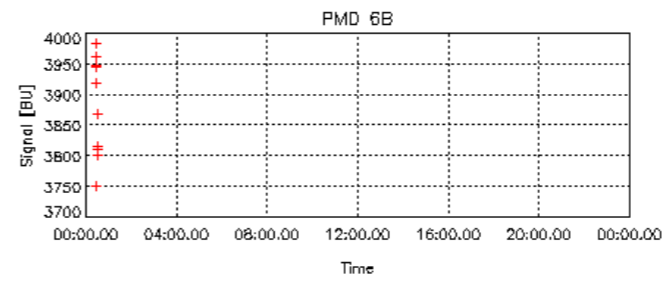
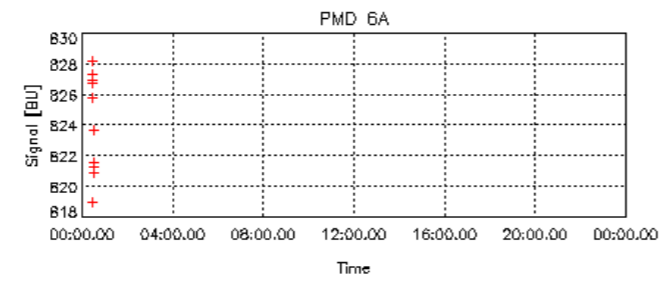
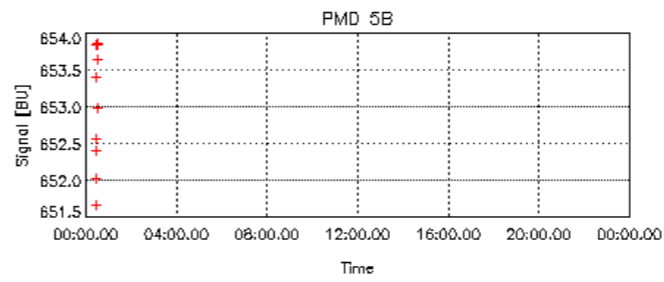
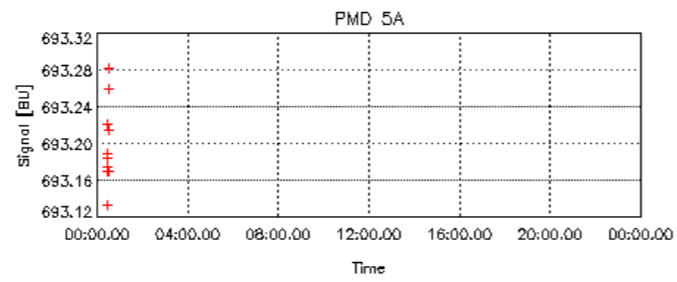
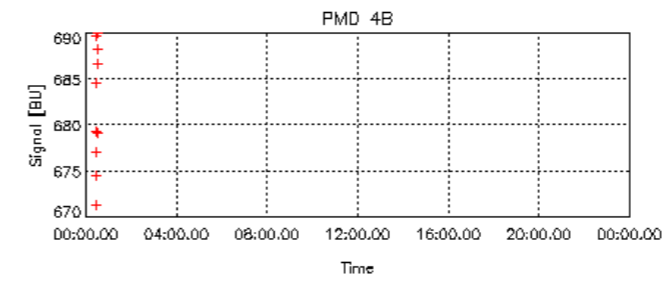
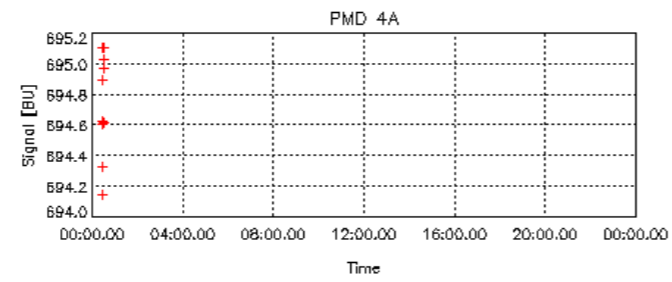
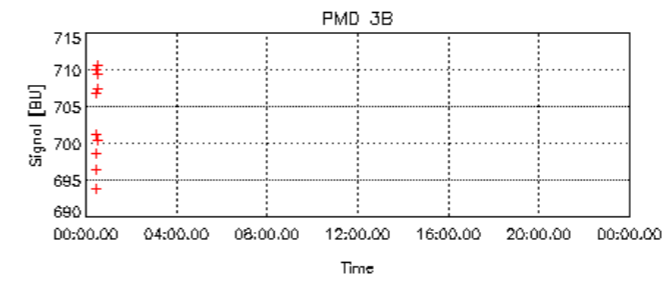
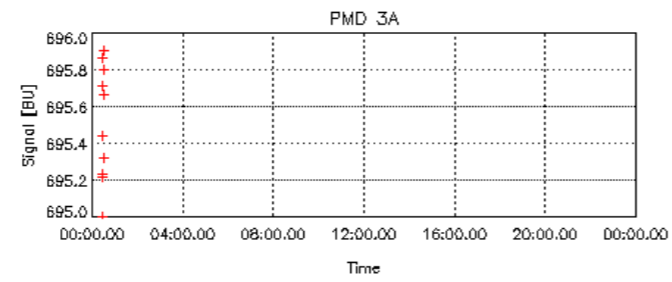
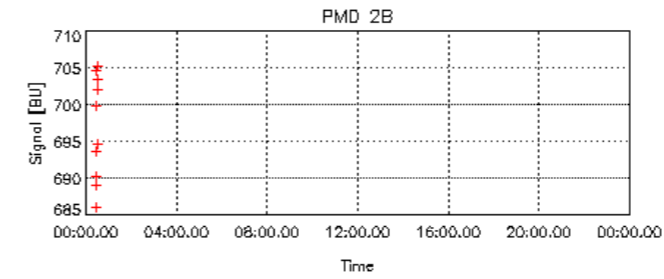
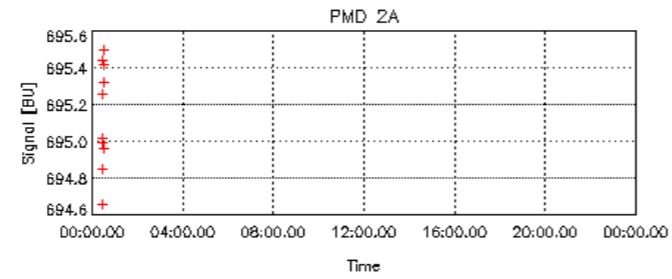
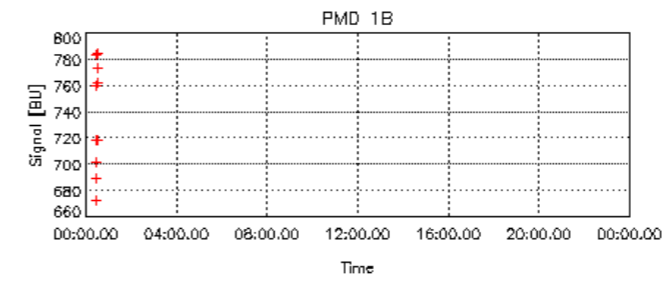
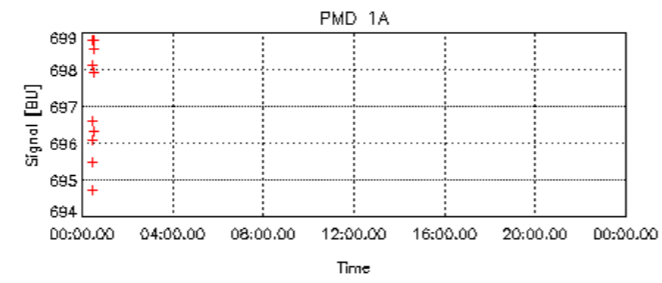


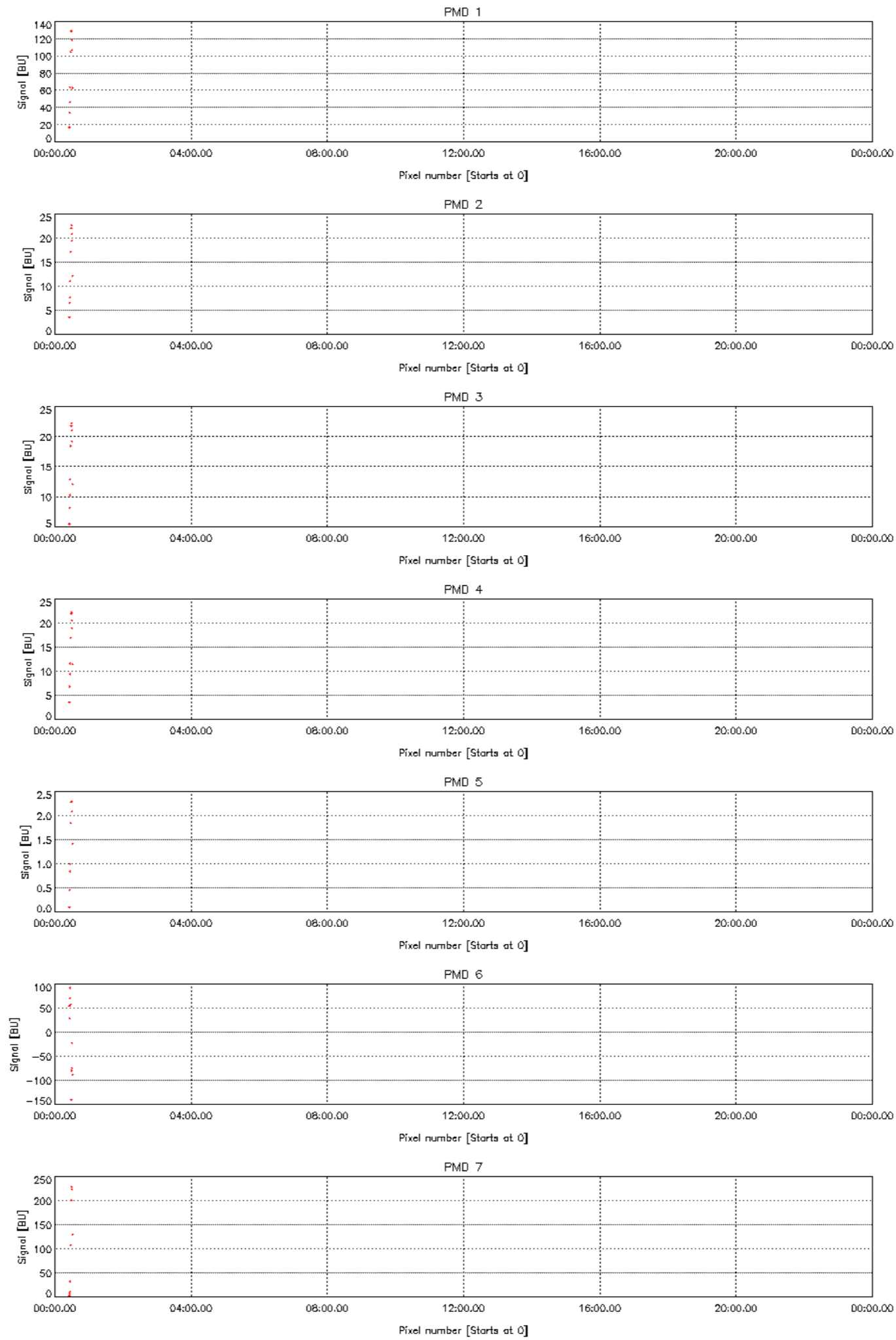
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 7 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



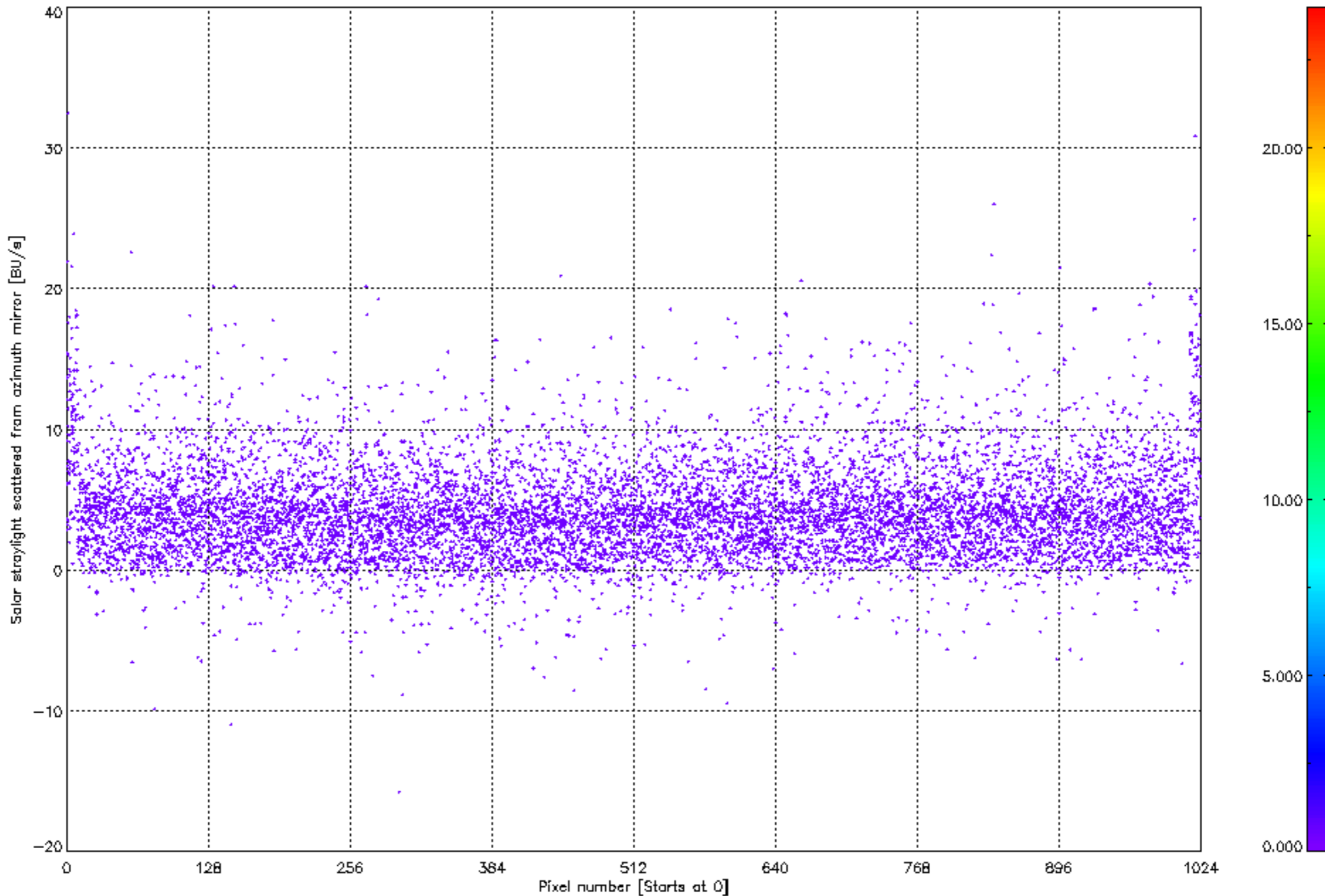
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 8 on 06MAR2012.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 06MAR2012 00:00:00



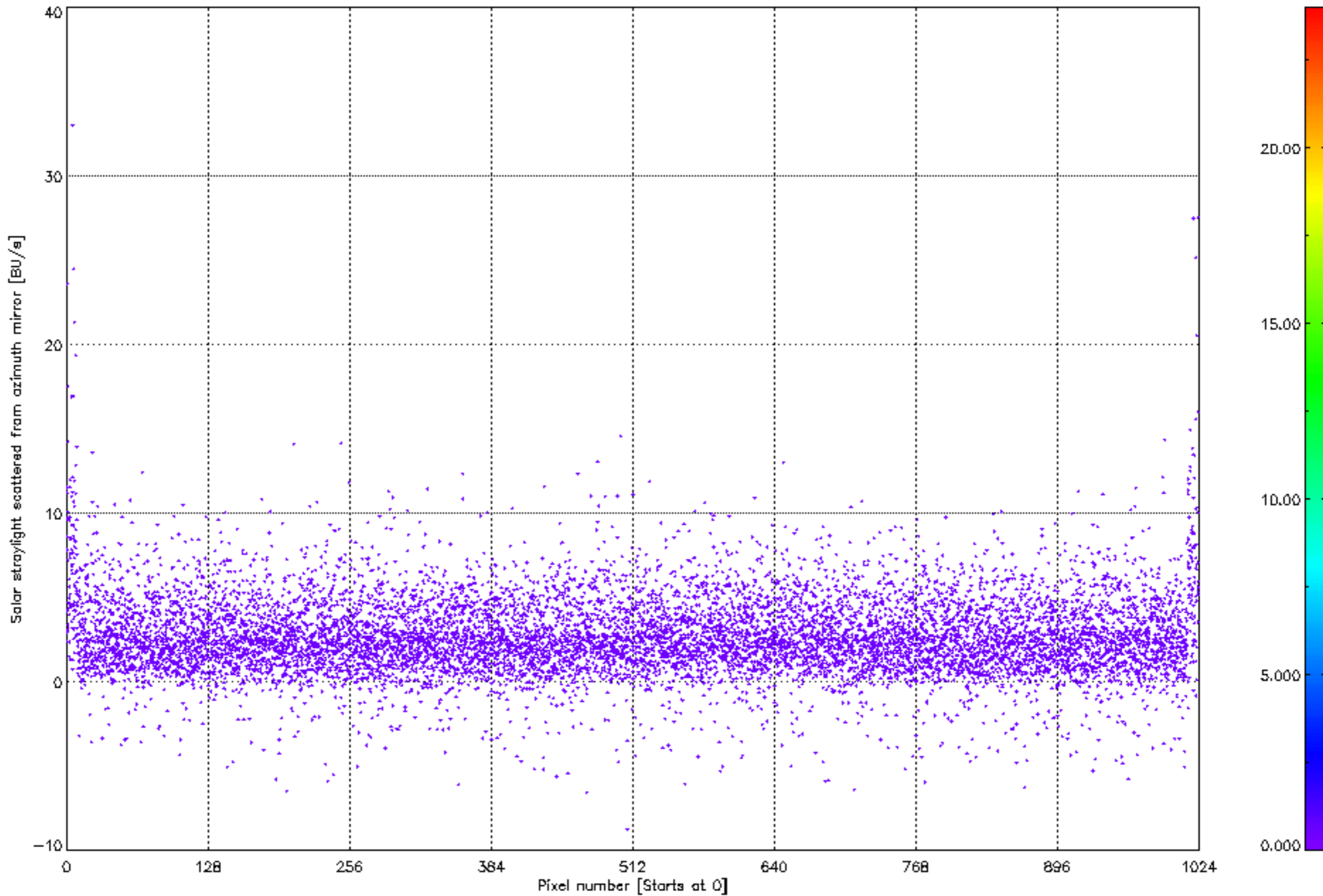




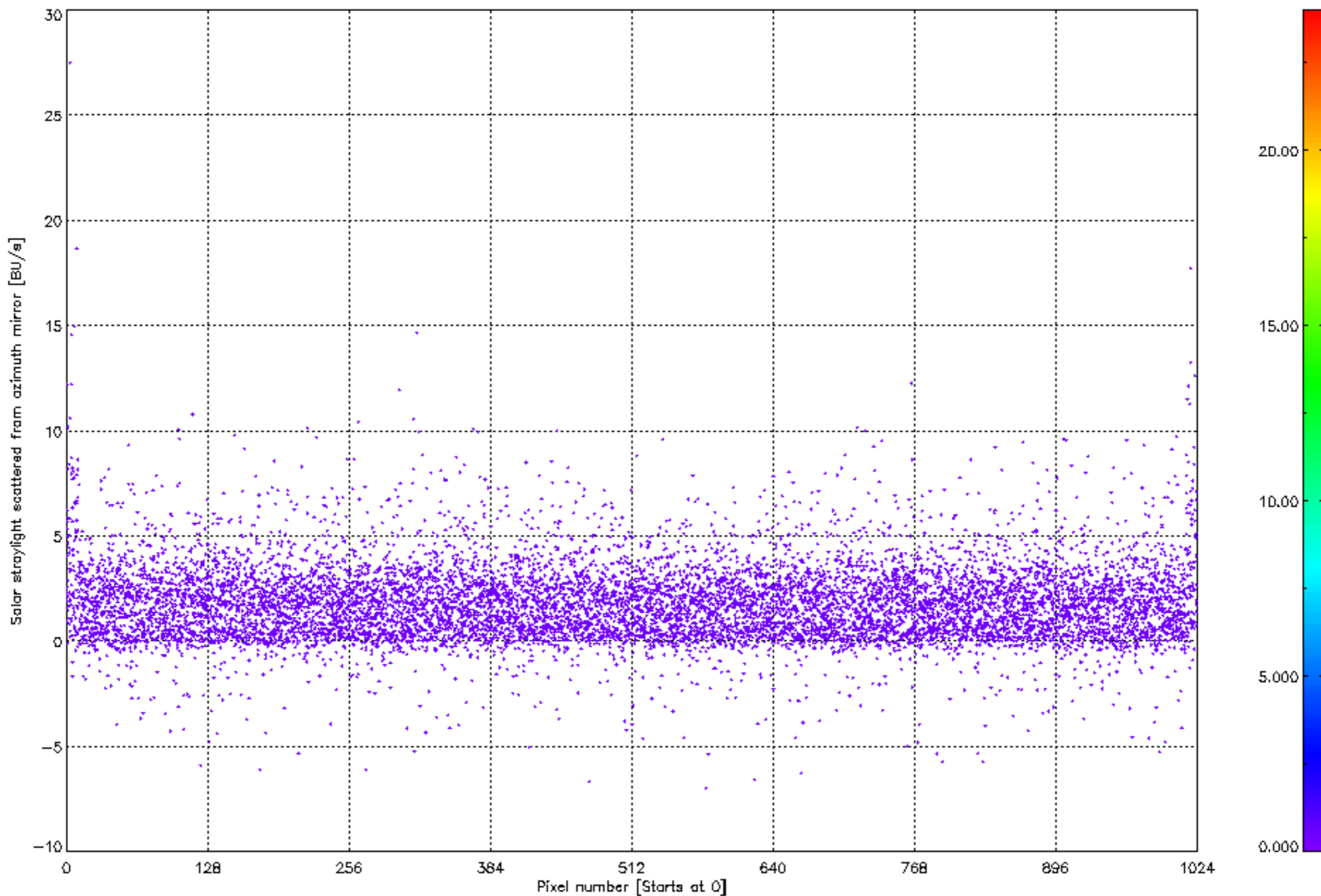
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 1
 Colours indicate the time in hours since 06MAR2012 00:00:00



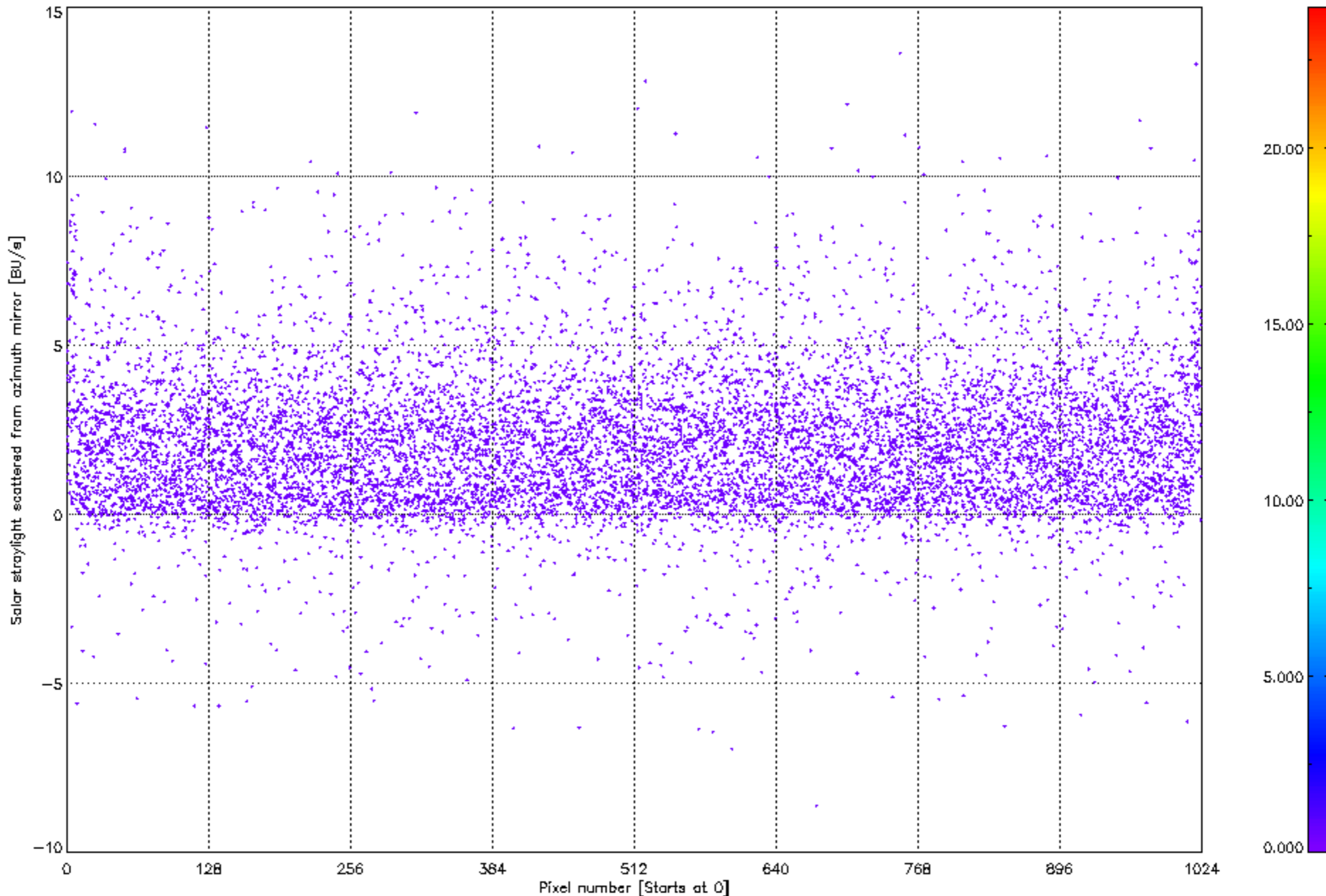
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 2
 Colours indicate the time in hours since 06MAR2012 00:00:00



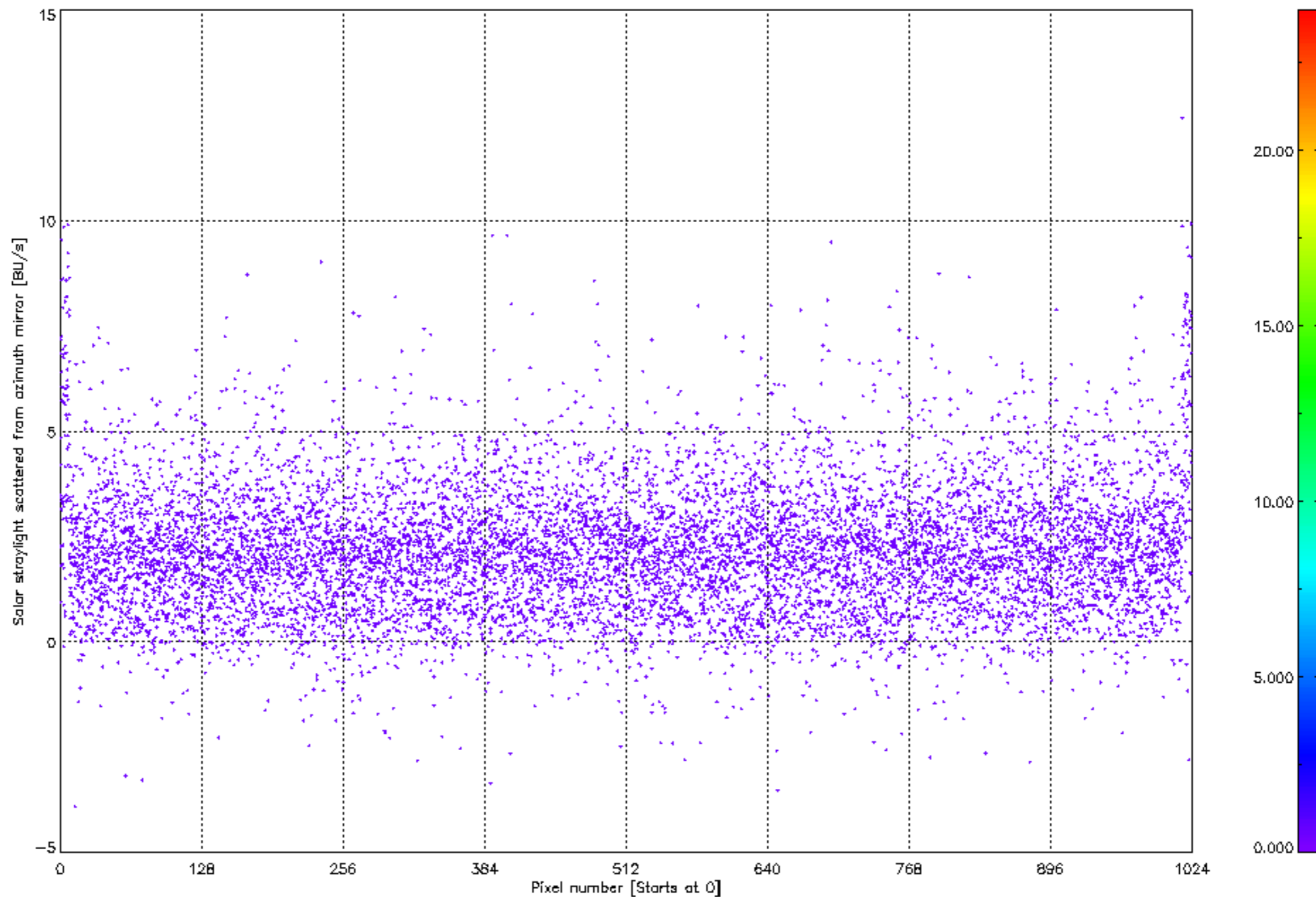
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 3
 Colours indicate the time in hours since 06MAR2012 00:00:00

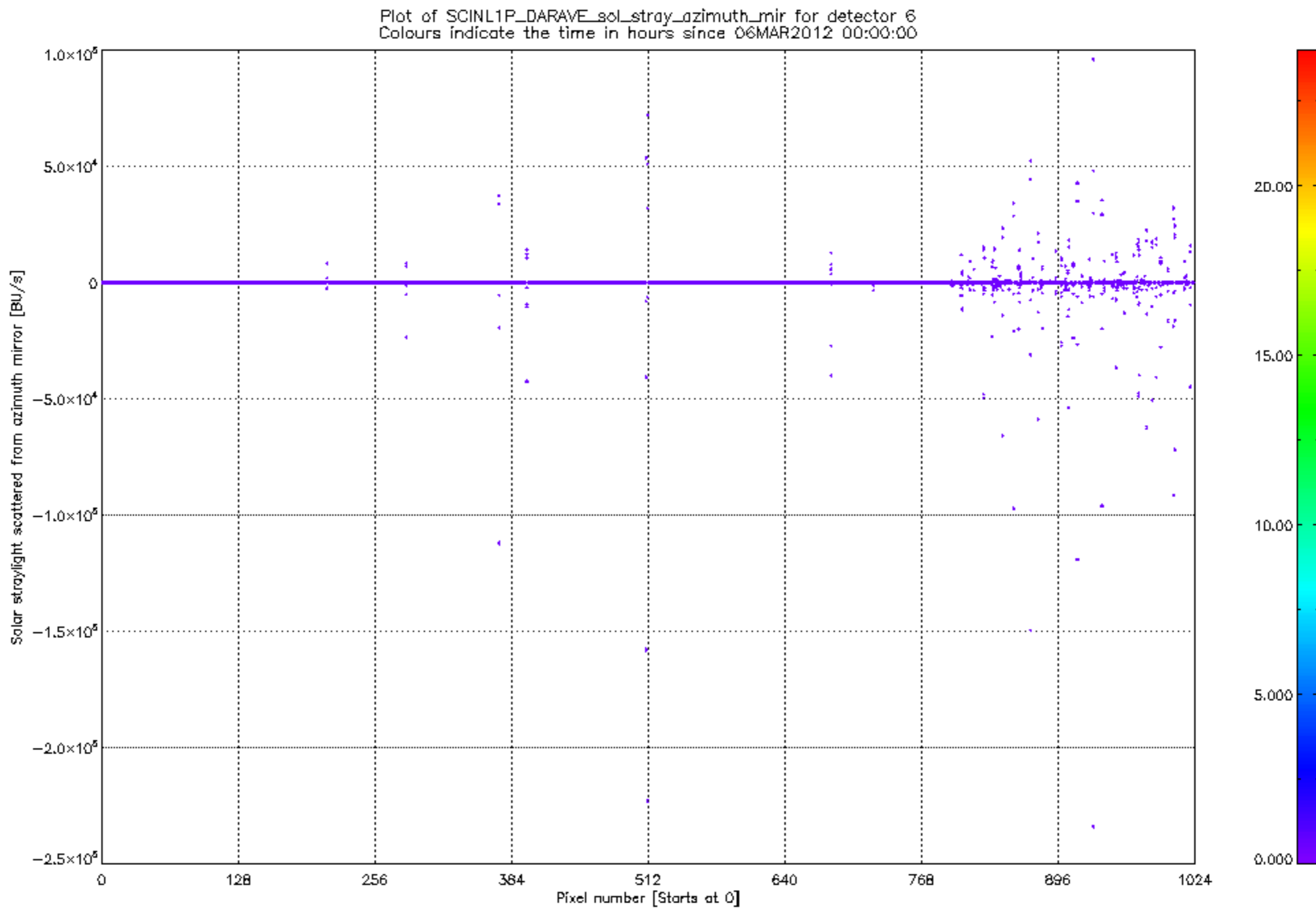


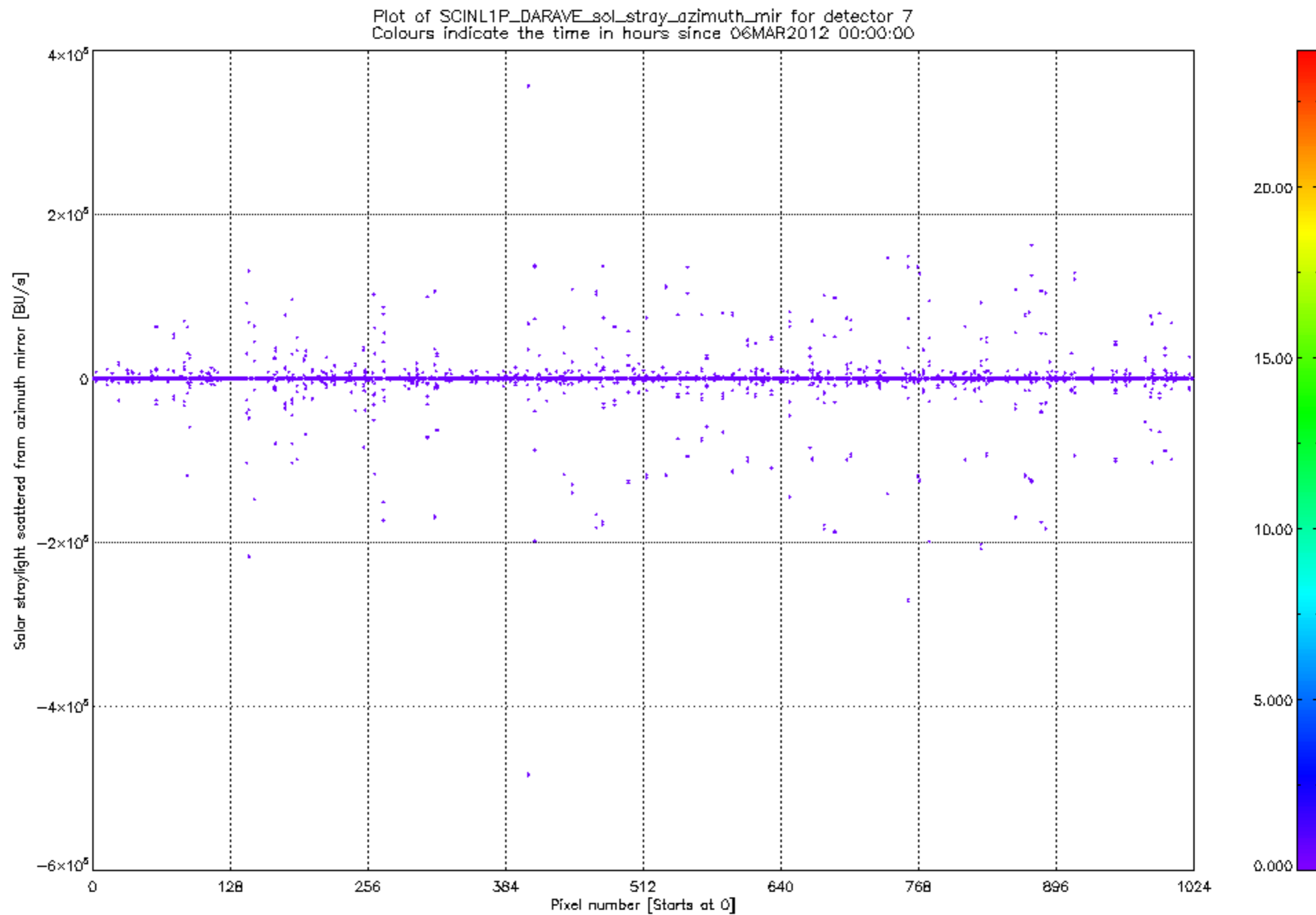
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 4
 Colours indicate the time in hours since 06MAR2012 00:00:00



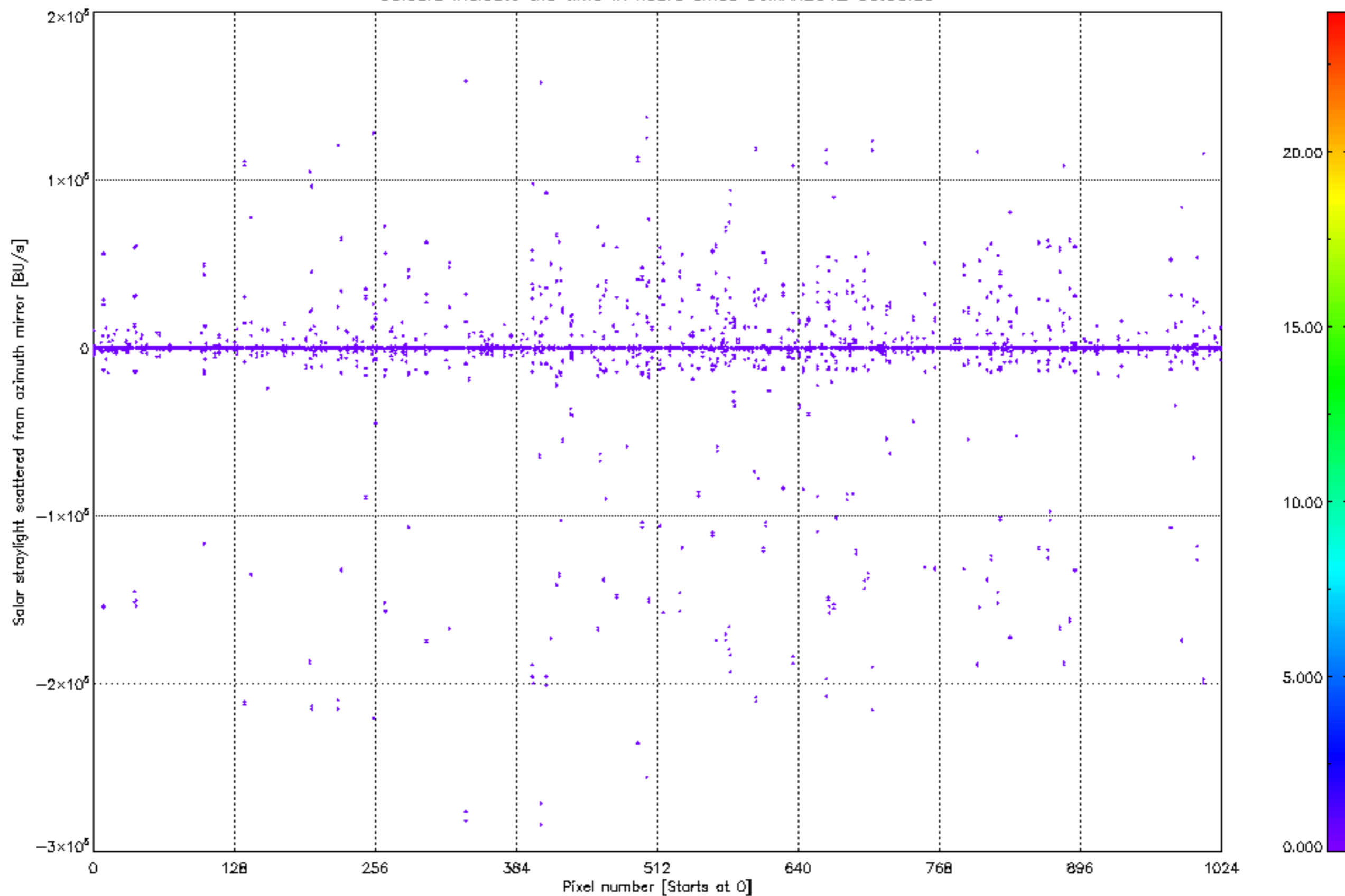
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 5
 Colours indicate the time in hours since 06MAR2012 00:00:00

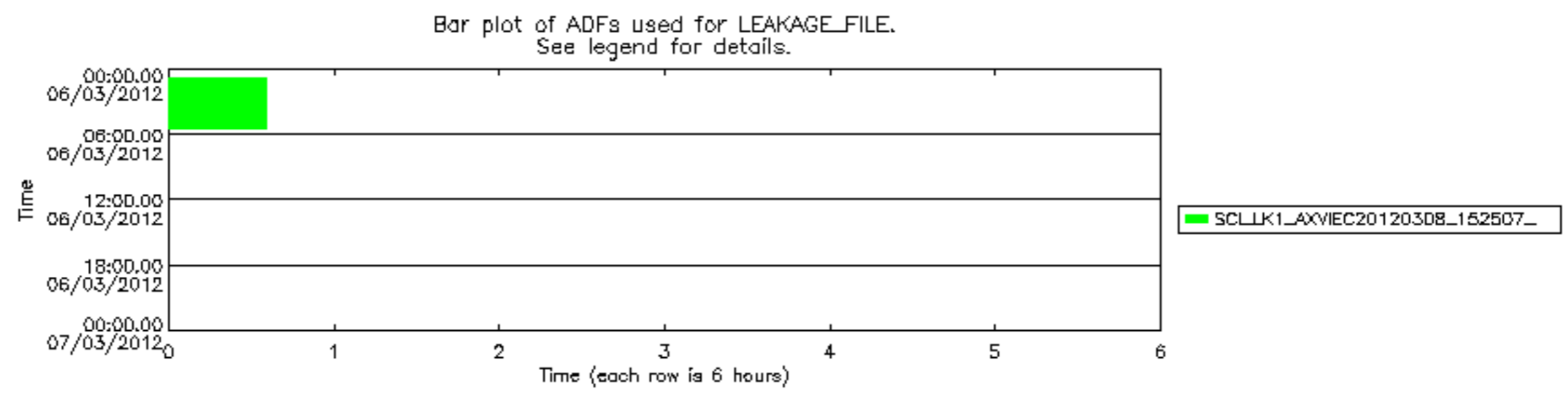


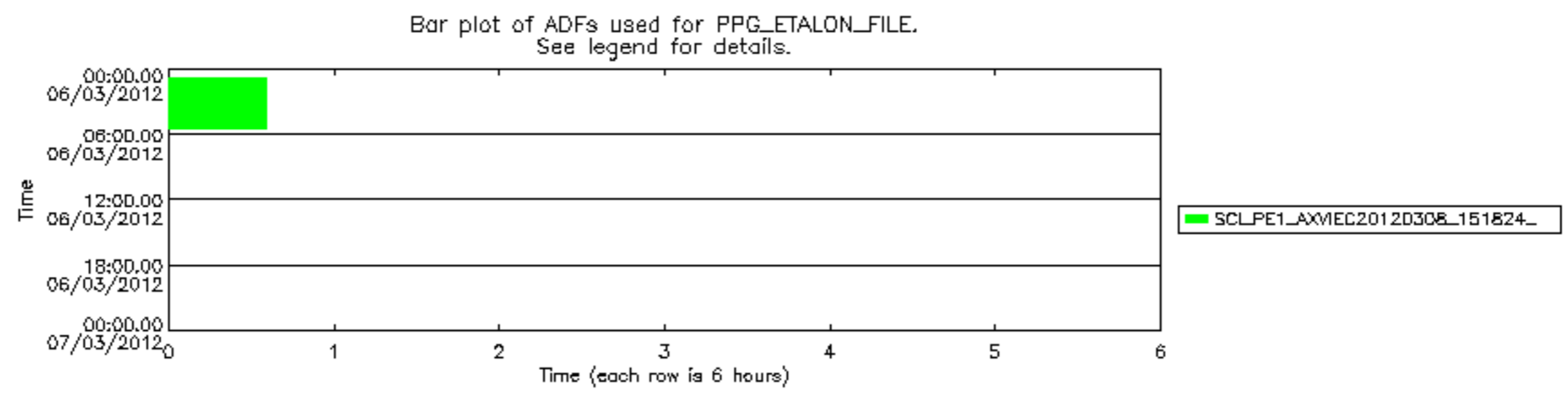


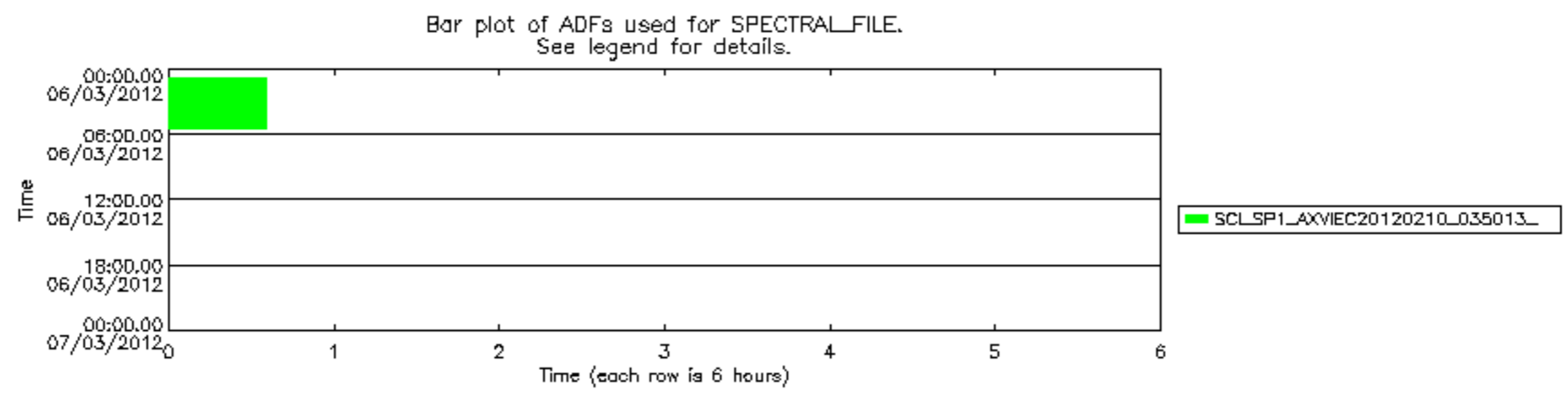


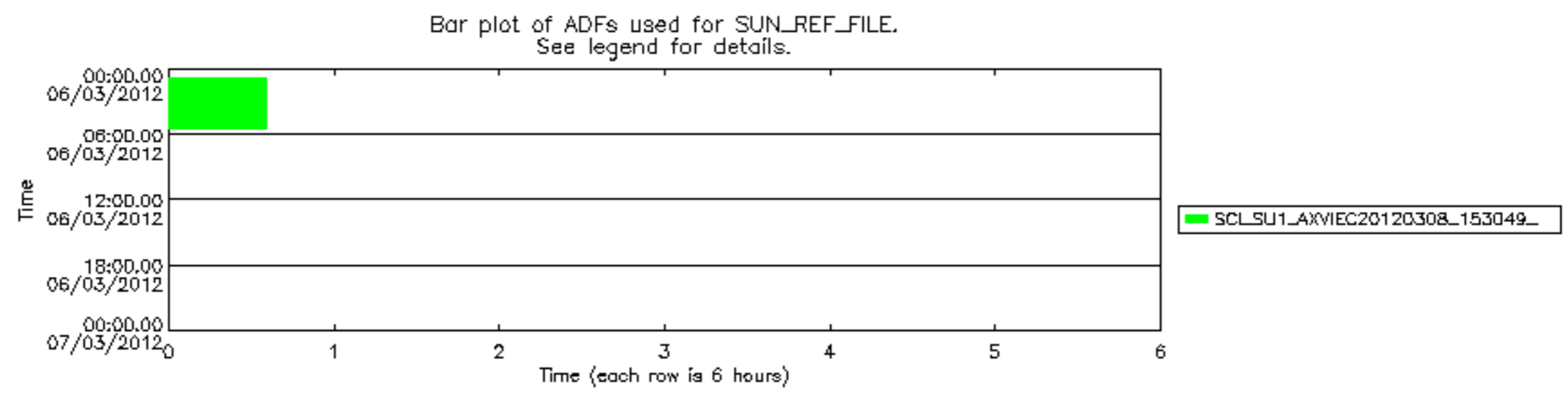
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 8
 Colours indicate the time in hours since 06MAR2012 00:00:00

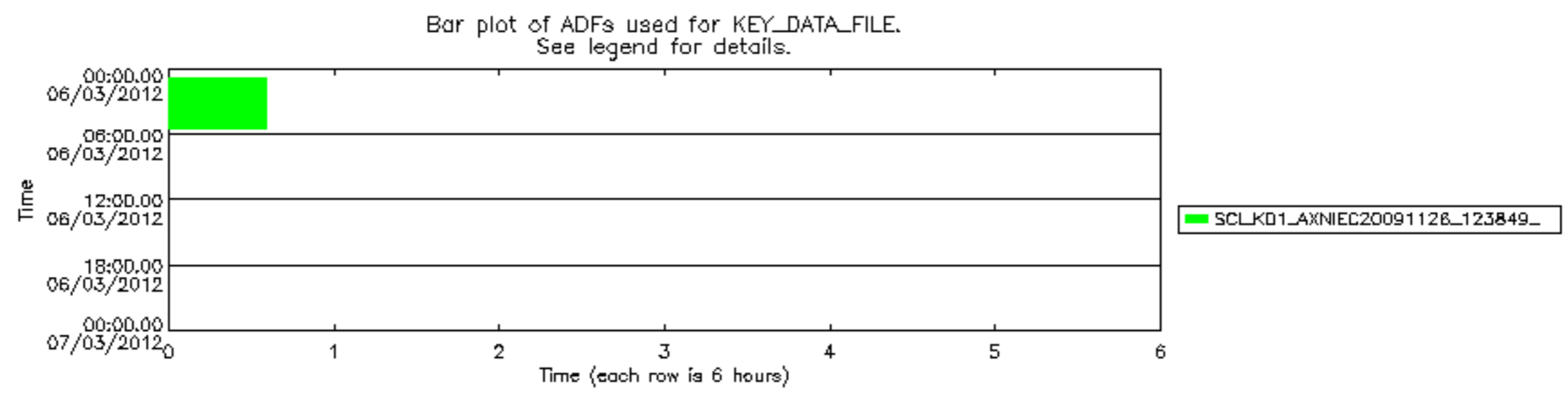


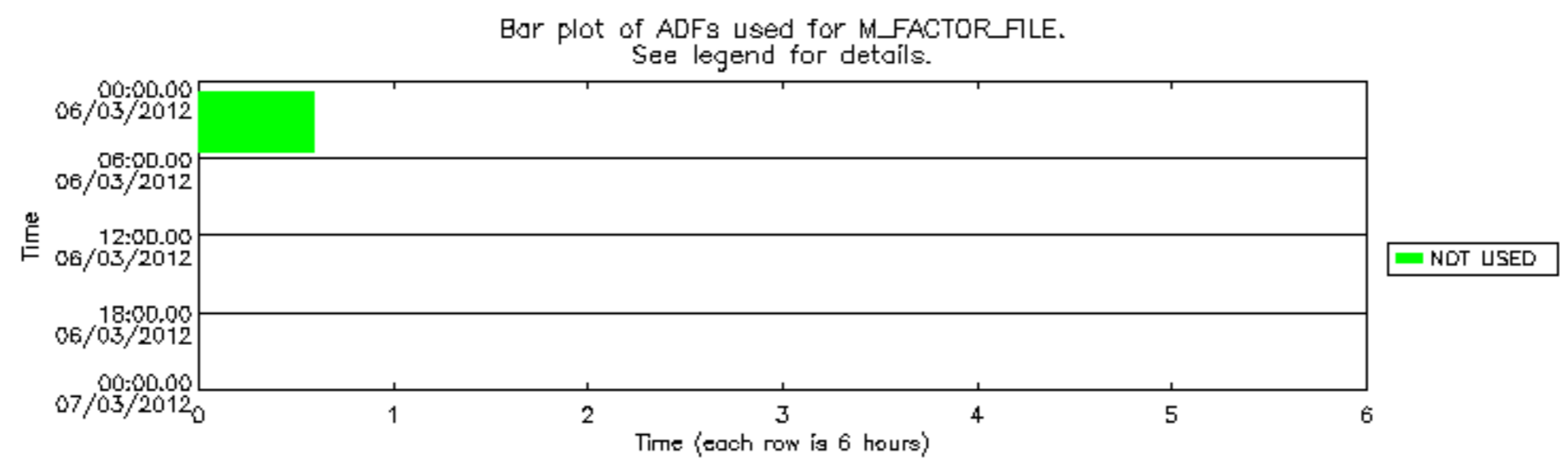


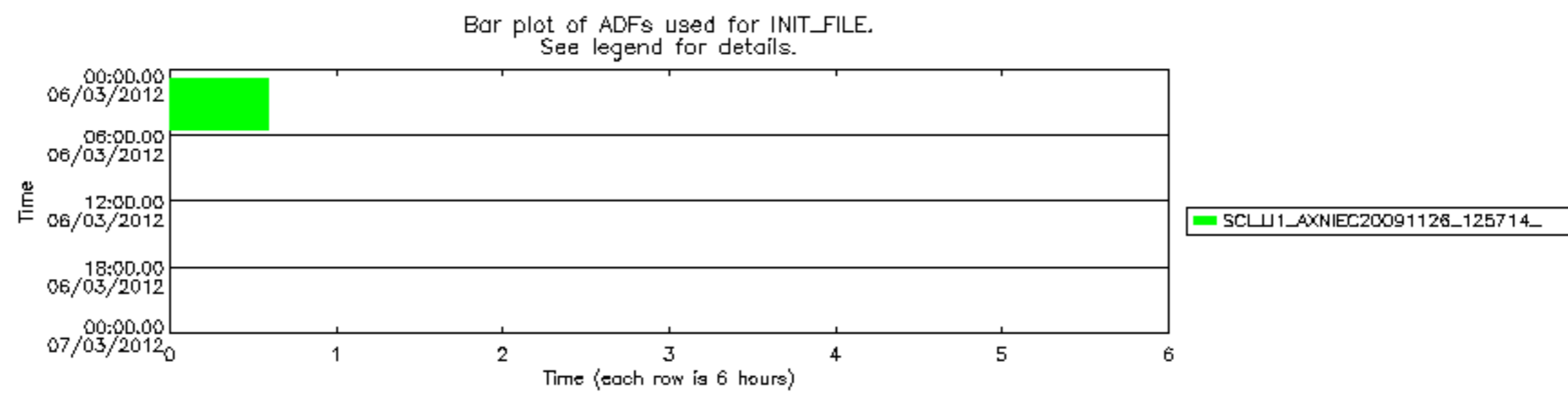


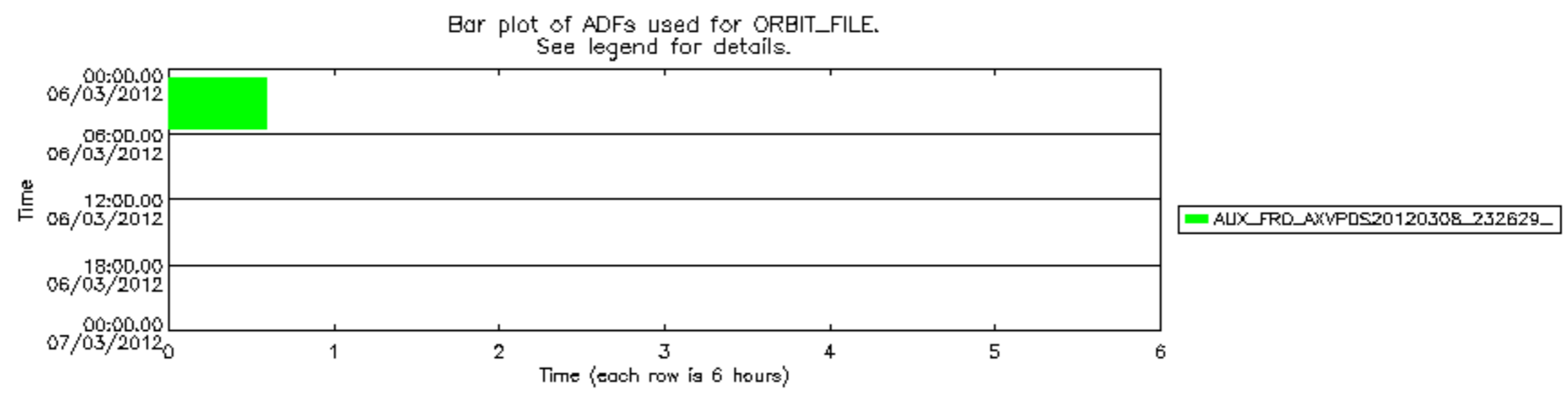


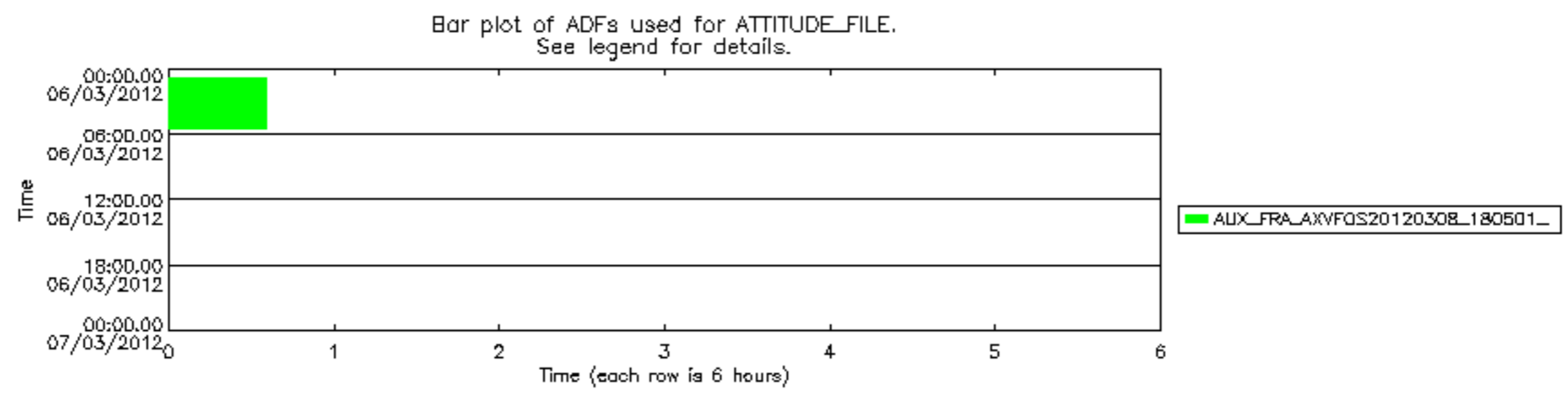












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
 Each row indicates an orbit. A light gray colour indicates the time span of 06MAR2012.
 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
 The remaining colours indicate planned activities and/or special measurements.
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

