

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	1.5 (28-07-2008)
Time of report generation	04OCT2011 02:46:09
Data source version	SCIA/7.04-U
Processing scope for products	21SEP2011 00:00:00 to 22SEP2011 00:00:00
Start time of first product within scope	20SEP2011 23:17:17
Stop time of last product within scope	21SEP2011 00:57:28
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__1PUDPA20110920_231717_000060103106_00404_49987_2068.N1	20SEP2011 23:17:17	21SEP2011 00:57:28	0	35	46	1	0	1	15	0	nnnynnnn

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

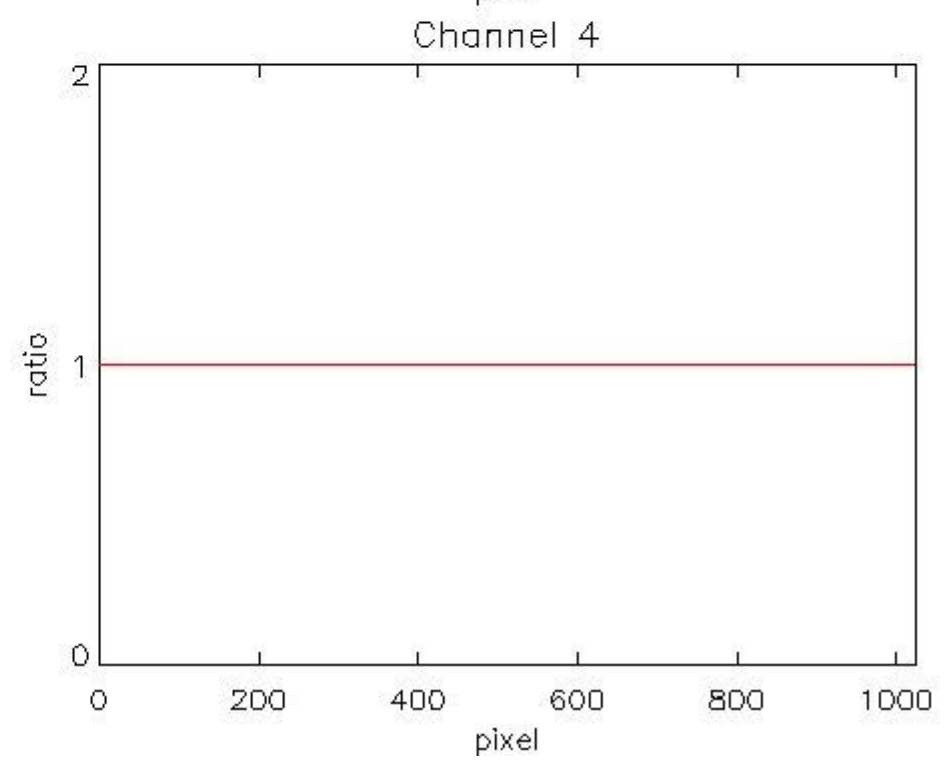
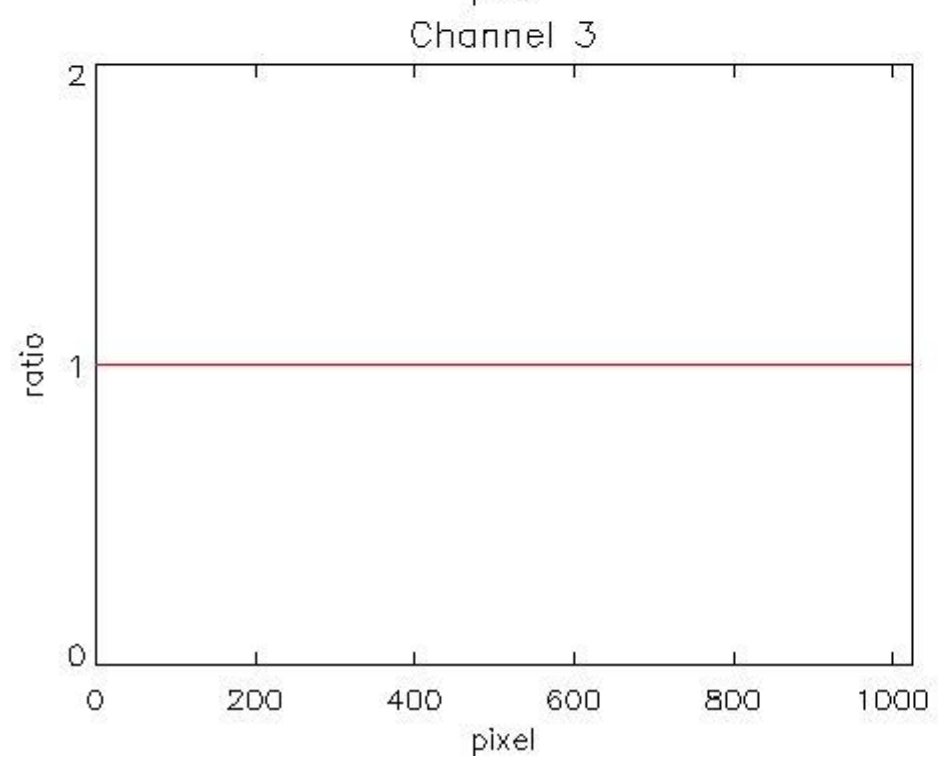
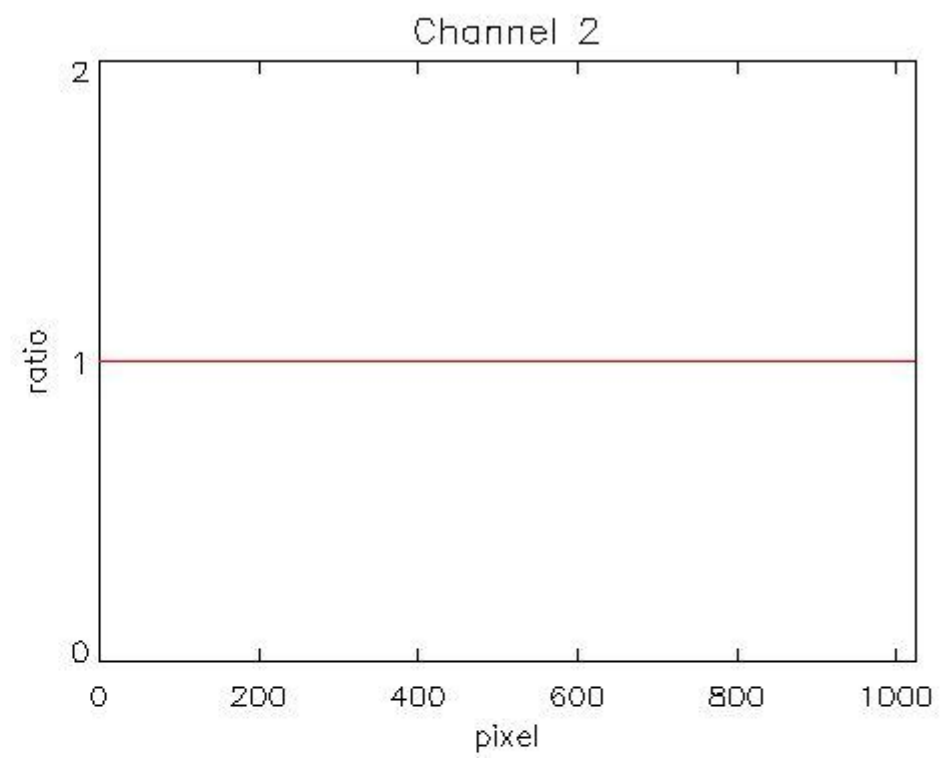
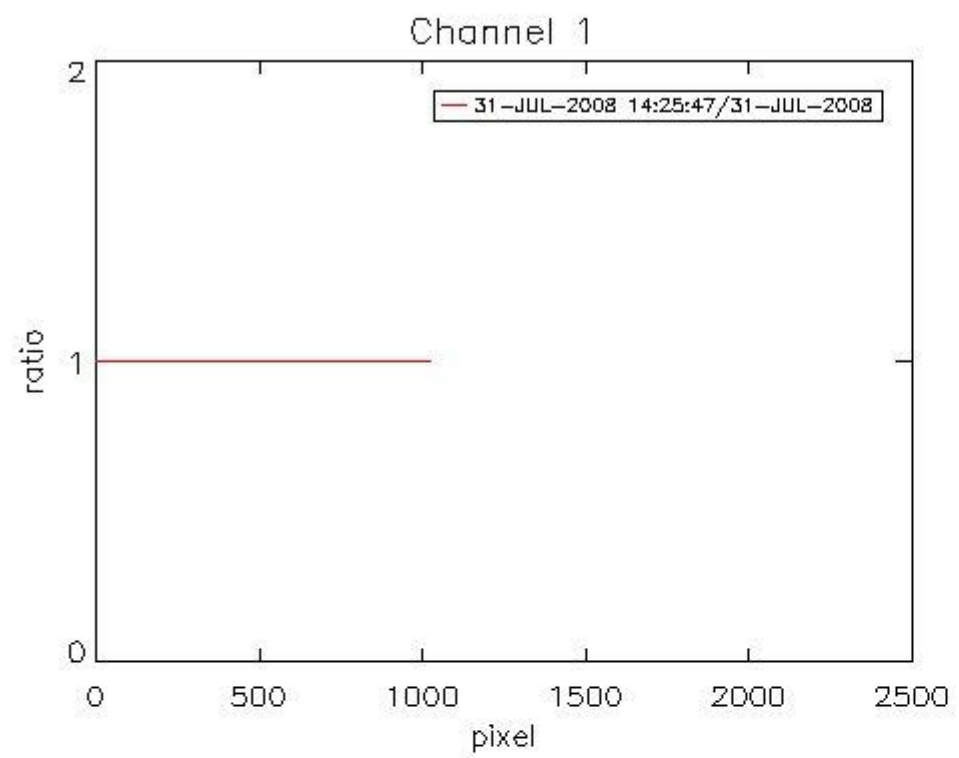
The following table summarizes measured polarisation fractions for each of the detectors in nadir and limb mode. Note: this section is currently in a testing phase.

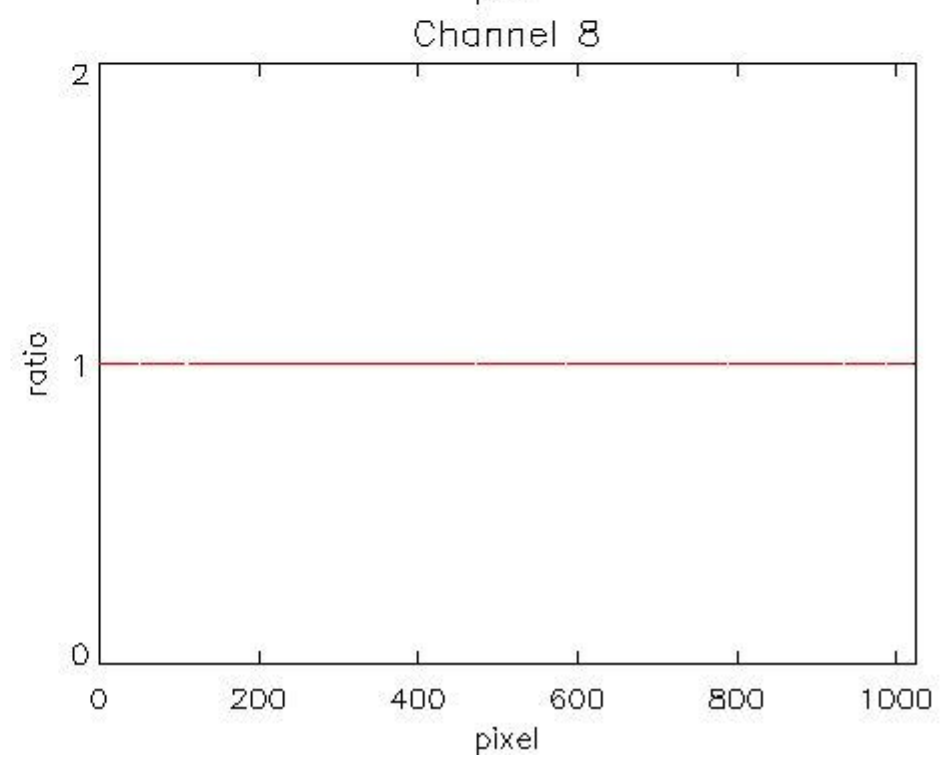
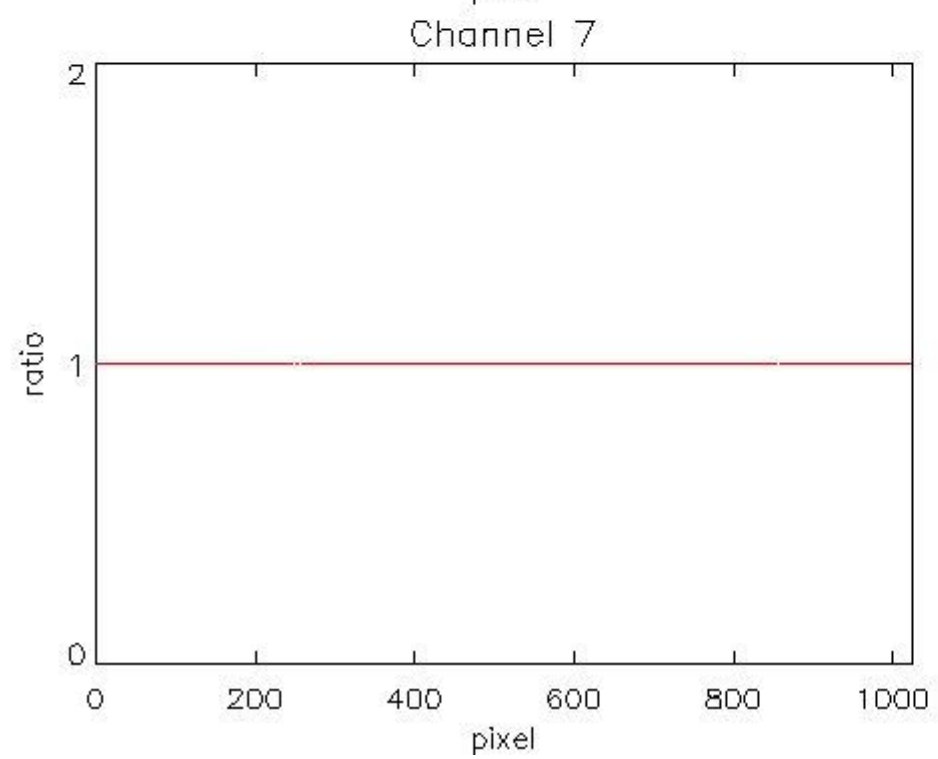
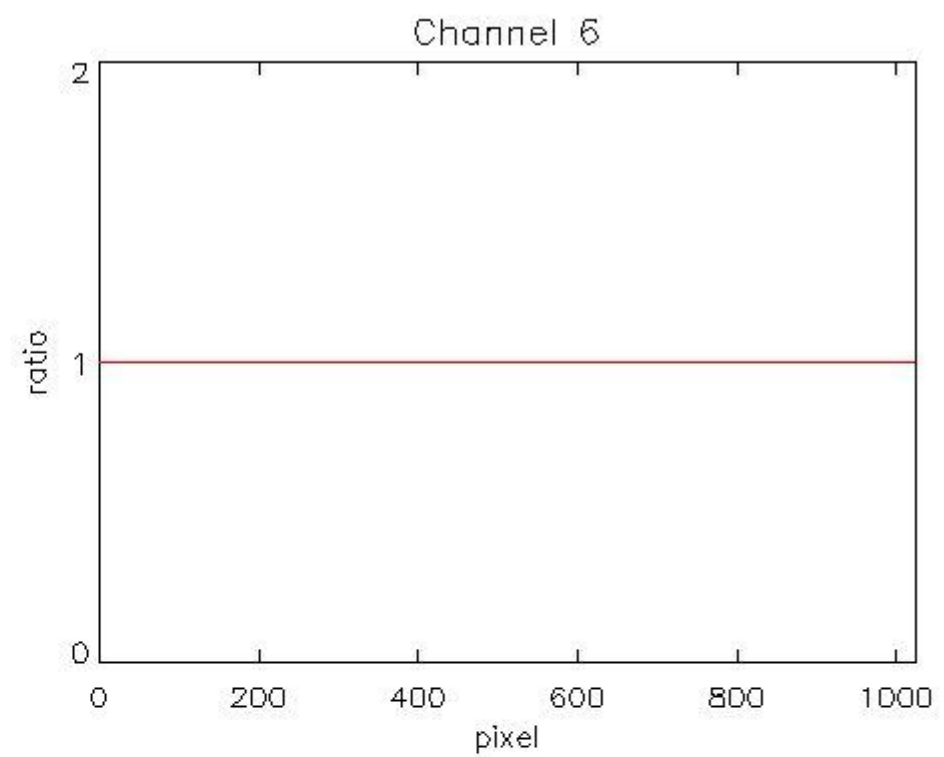
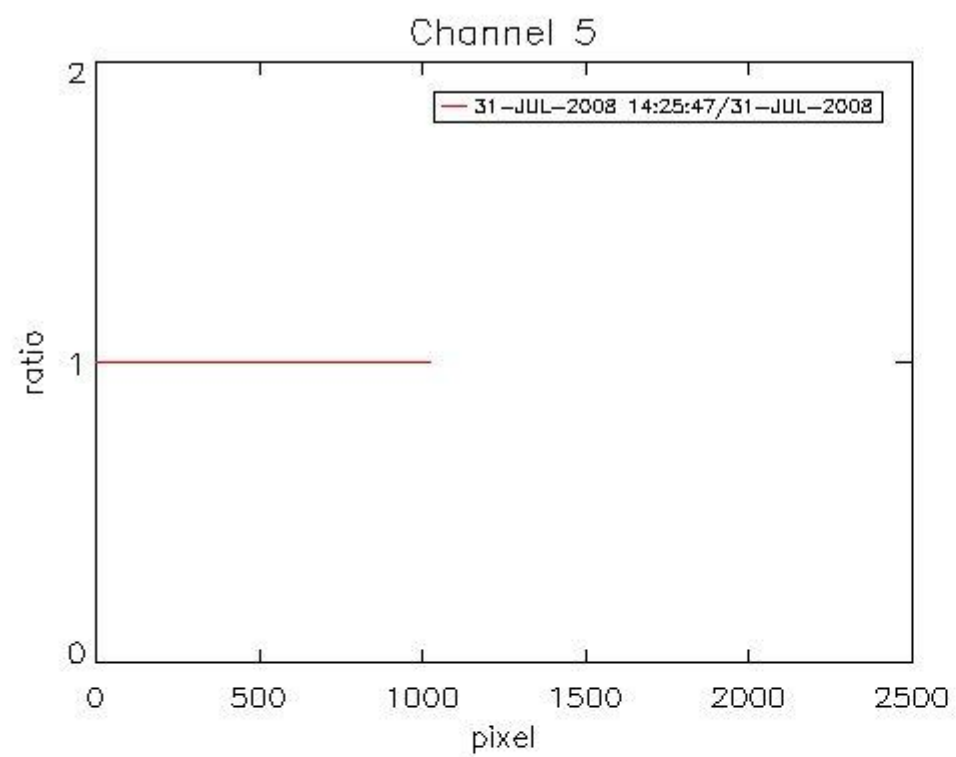
PMD ID	#Q=0	#U=0

NADIR PMD1	0 out of 18330 (0.00000 %)	0 out of 18330 (0.00000 %)
NADIR PMD2	11438 out of 18330 (62.4004 %)	11969 out of 18330 (65.2973 %)
NADIR PMD3	5646 out of 18330 (30.8020 %)	6019 out of 18330 (32.8369 %)
NADIR PMD4	3770 out of 18330 (20.5674 %)	4211 out of 18330 (22.9733 %)
NADIR PMD5	8798 out of 18330 (47.9978 %)	9150 out of 18330 (49.9182 %)
NADIR PMD6	16811 out of 18330 (91.7130 %)	17009 out of 18330 (92.7932 %)
NADIR OVERLAP1	15348 out of 18330 (83.7316 %)	15679 out of 18330 (85.5374 %)
NADIR OVERLAP2	11016 out of 18330 (60.0982 %)	13266 out of 18330 (72.3732 %)
NADIR OVERLAP3	16659 out of 18330 (90.8838 %)	17128 out of 18330 (93.4424 %)
NADIR OVERLAP4	16844 out of 18330 (91.8931 %)	16920 out of 18330 (92.3077 %)
NADIR OVERLAP5	16829 out of 18330 (91.8112 %)	16906 out of 18330 (92.2313 %)
NADIR MODEL300NM	12253 out of 18330 (66.8467 %)	12584 out of 18330 (68.6525 %)
LIMB PMD1	0 out of 3176 (0.00000 %)	0 out of 3176 (0.00000 %)
LIMB PMD2	780 out of 3176 (24.5592 %)	780 out of 3176 (24.5592 %)
LIMB PMD3	720 out of 3176 (22.6700 %)	975 out of 3176 (30.6990 %)
LIMB PMD4	720 out of 3176 (22.6700 %)	899 out of 3176 (28.3060 %)
LIMB PMD5	780 out of 3176 (24.5592 %)	791 out of 3176 (24.9055 %)
LIMB PMD6	780 out of 3176 (24.5592 %)	1033 out of 3176 (32.5252 %)
LIMB OVERLAP1	1618 out of 3176 (50.9446 %)	2250 out of 3176 (70.8438 %)
LIMB OVERLAP2	2085 out of 3176 (65.6486 %)	2381 out of 3176 (74.9685 %)
LIMB OVERLAP3	839 out of 3176 (26.4169 %)	1595 out of 3176 (50.2204 %)
LIMB OVERLAP4	793 out of 3176 (24.9685 %)	1150 out of 3176 (36.2091 %)
LIMB OVERLAP5	822 out of 3176 (25.8816 %)	1489 out of 3176 (46.8829 %)
LIMB MODEL300NM	937 out of 3176 (29.5025 %)	2005 out of 3176 (63.1297 %)

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.

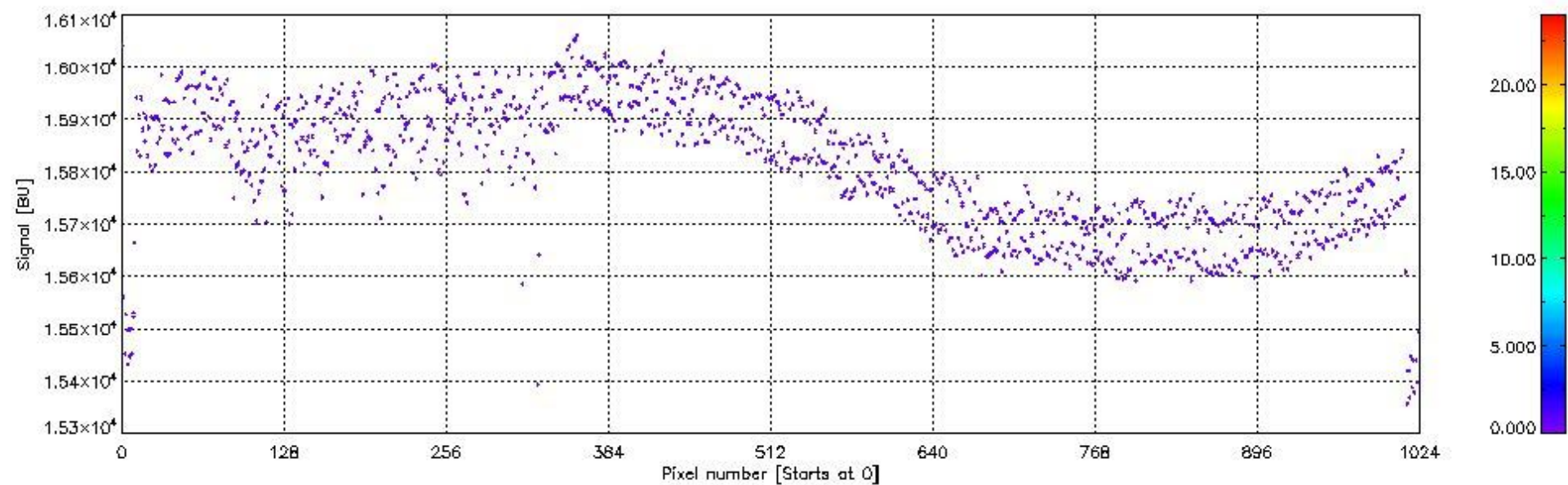
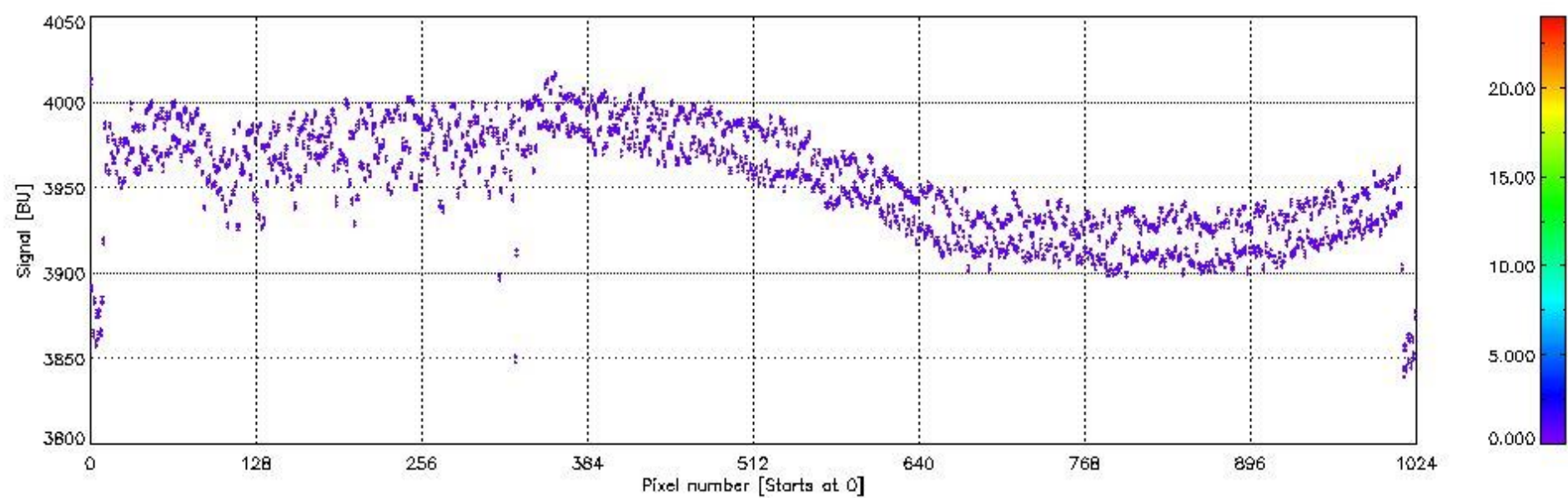
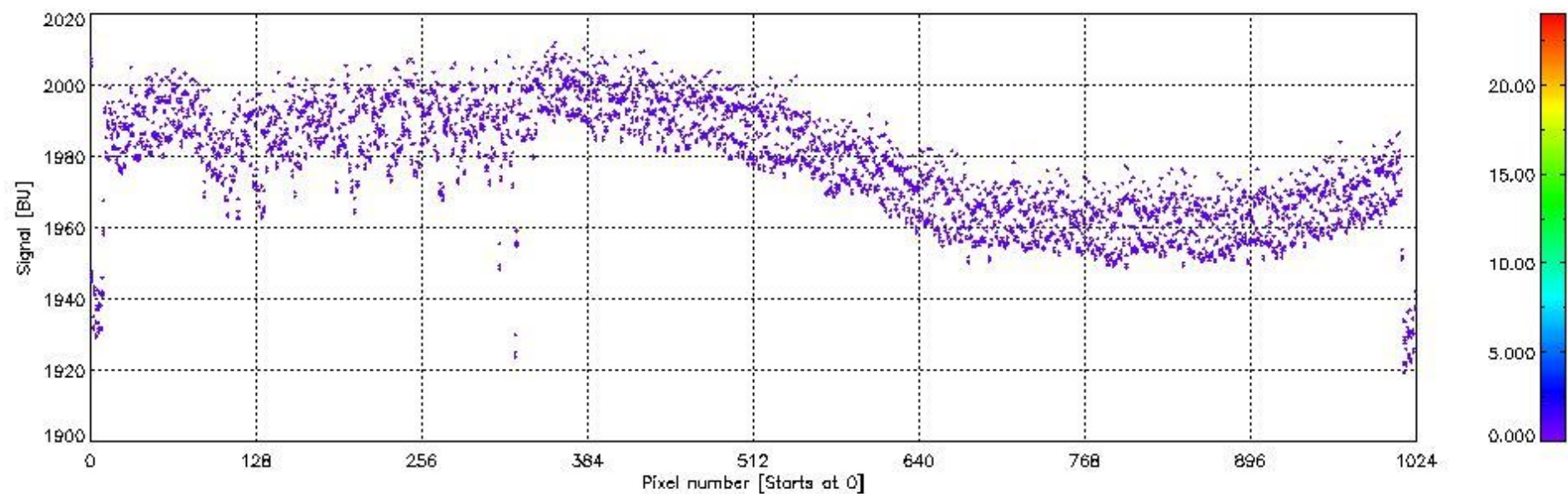




1.2.3 Dark measurements overview

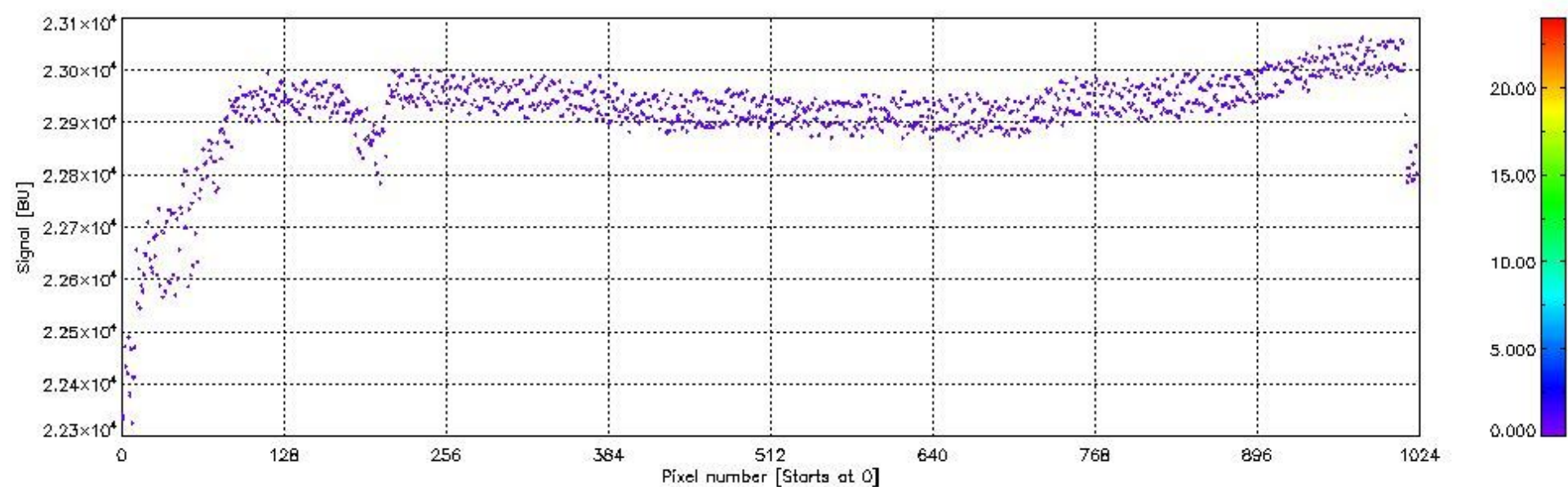
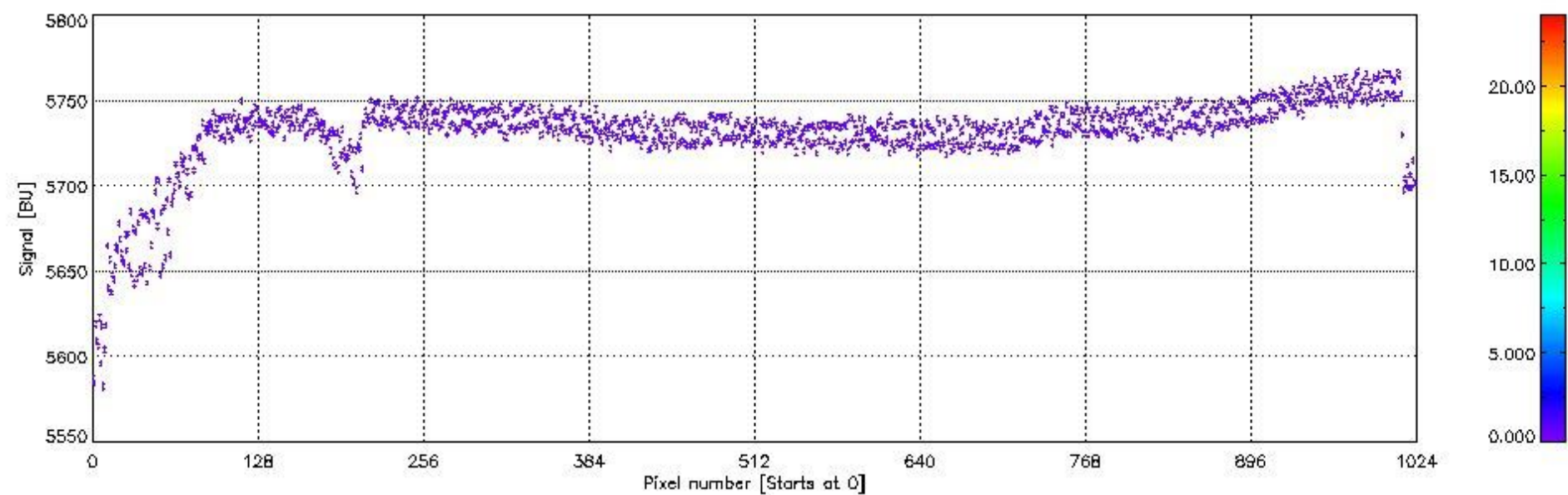
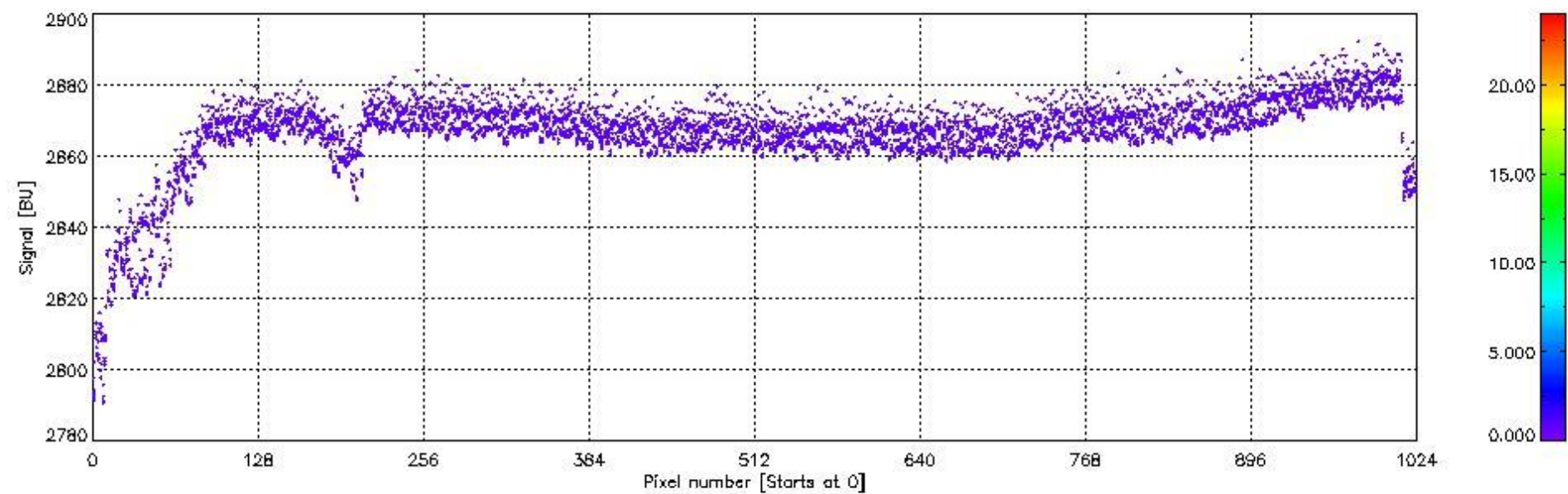
This section lists properties of the dark measurements performed within the processing scope.

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 1 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



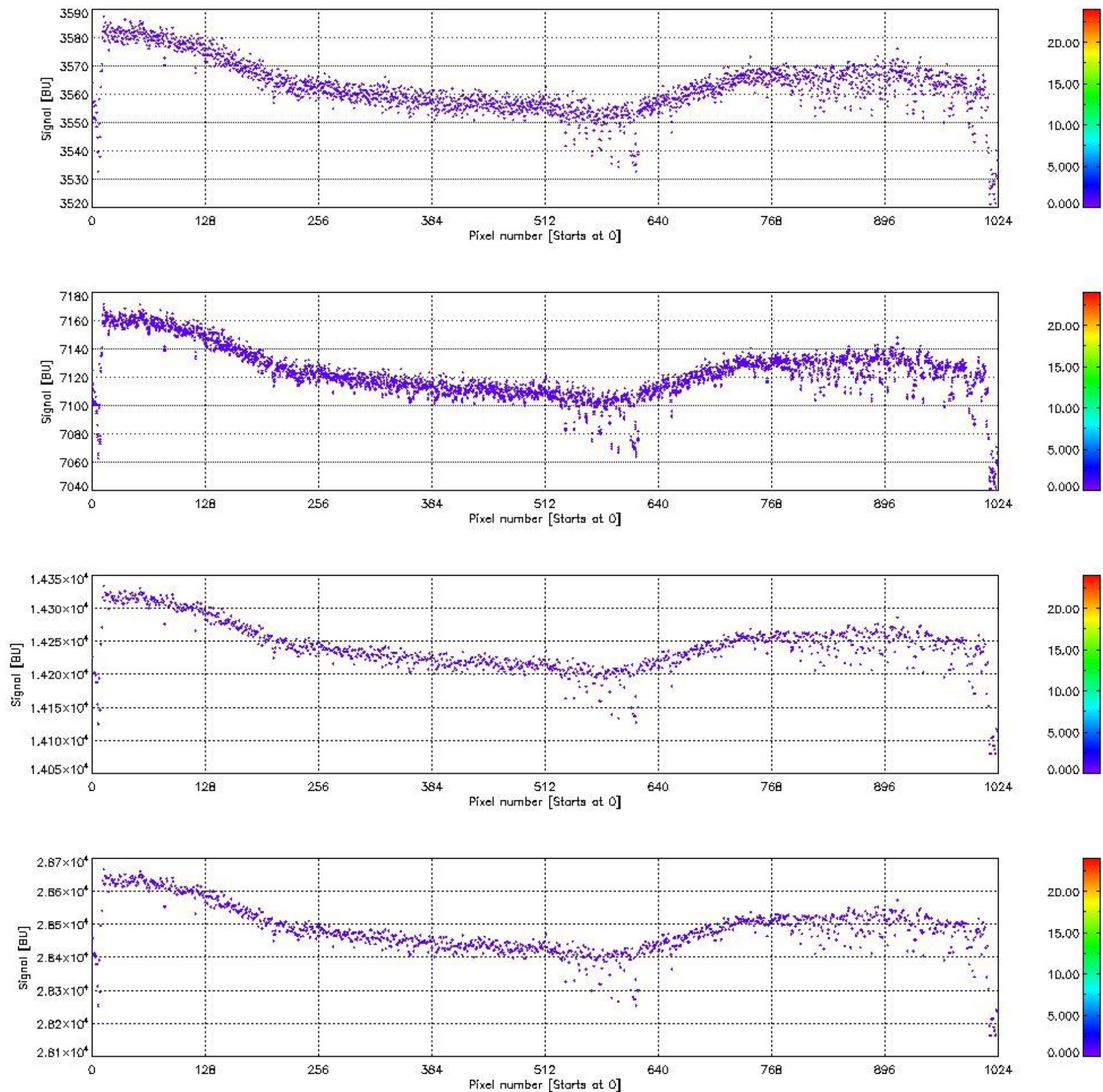
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_2.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 2 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



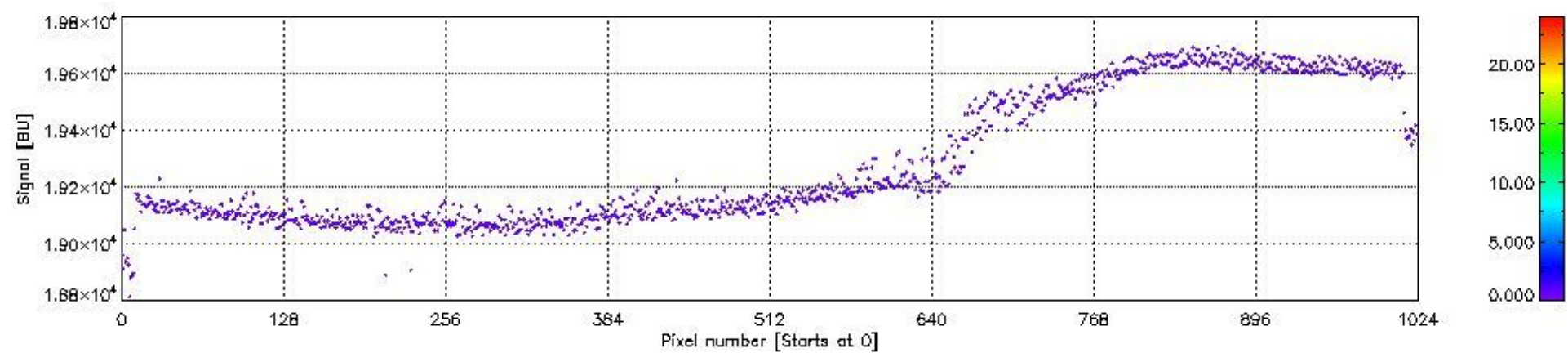
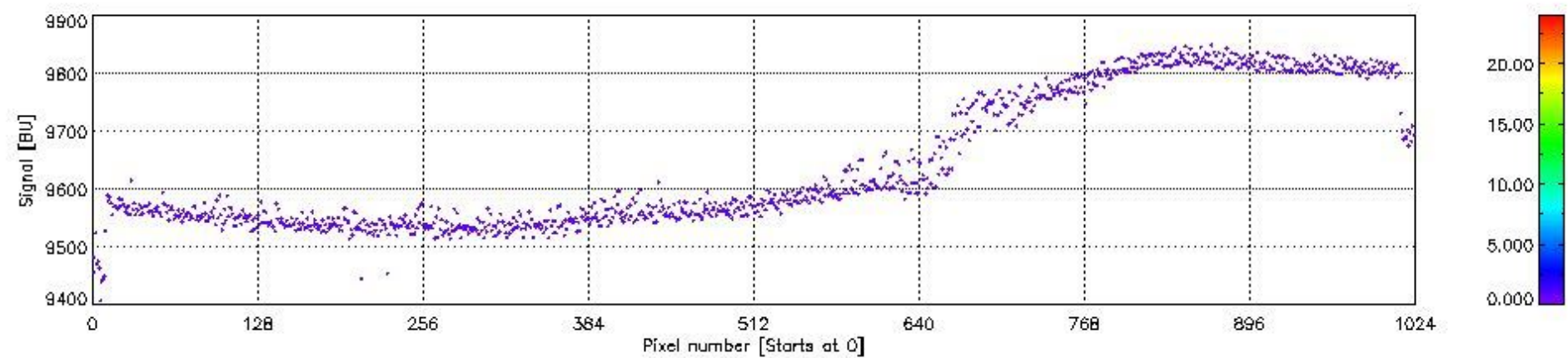
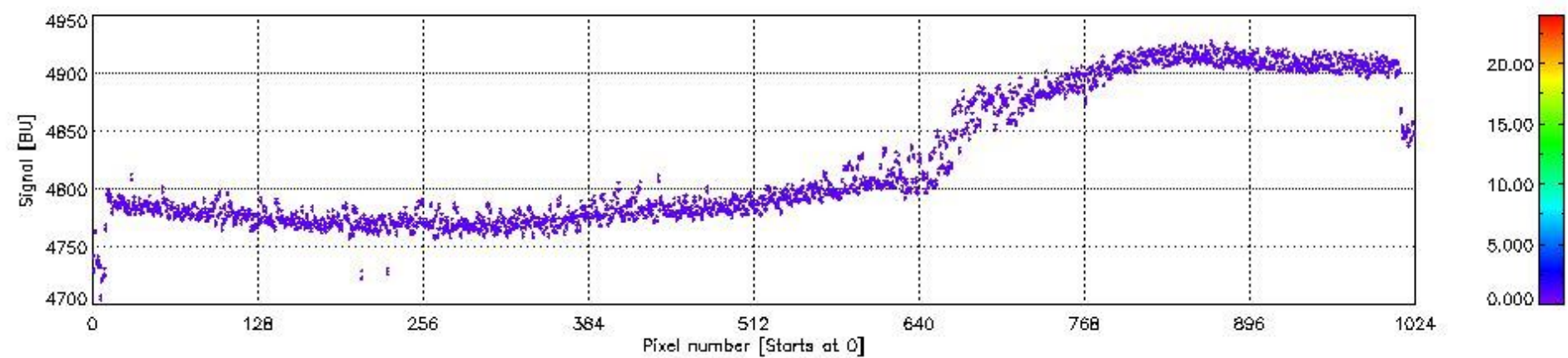
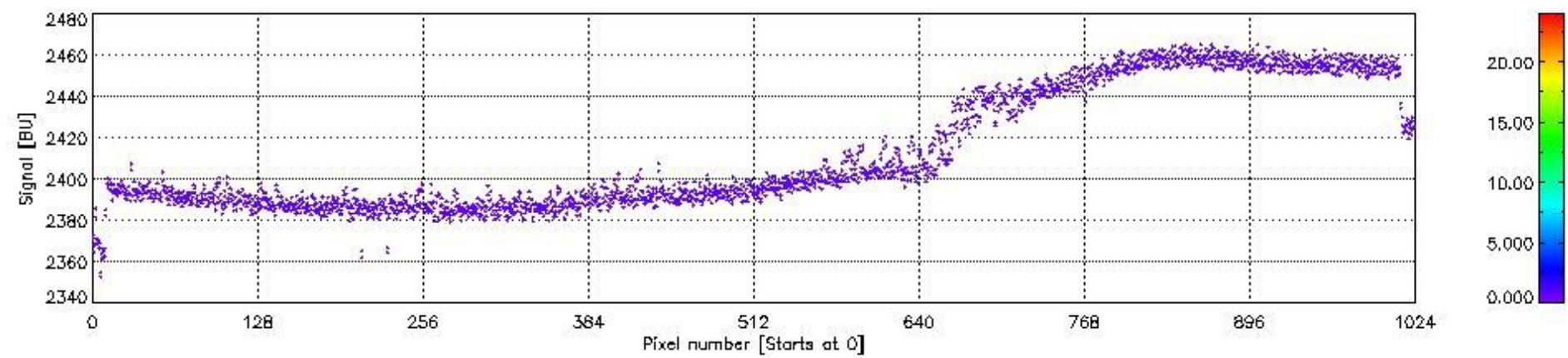
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_3.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 3 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



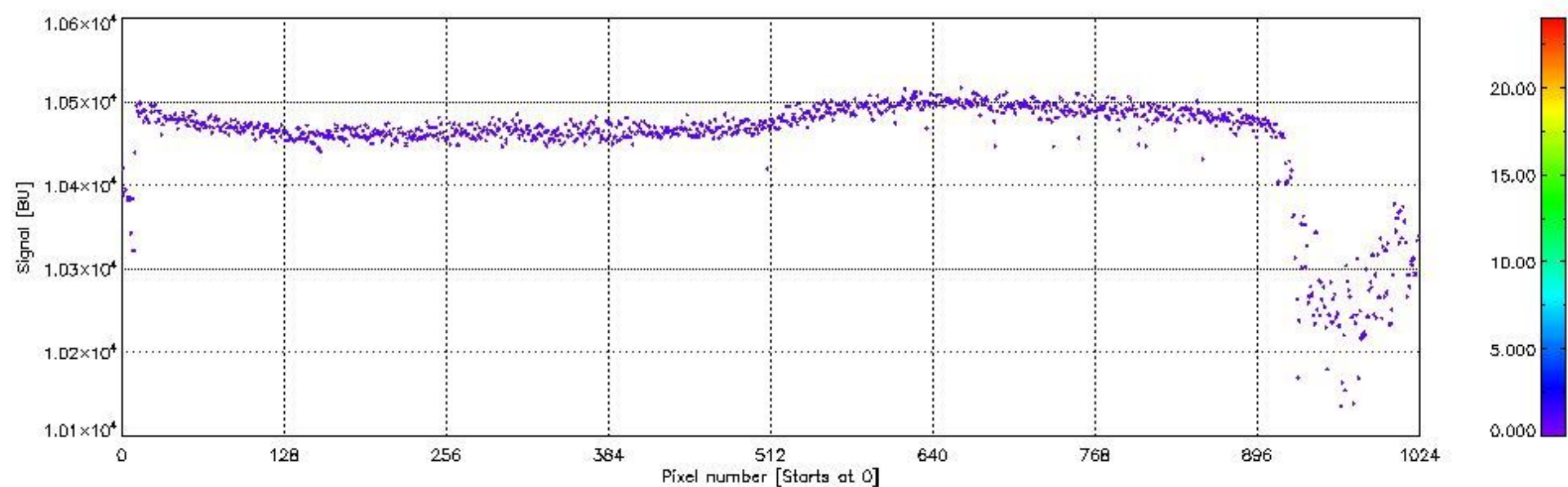
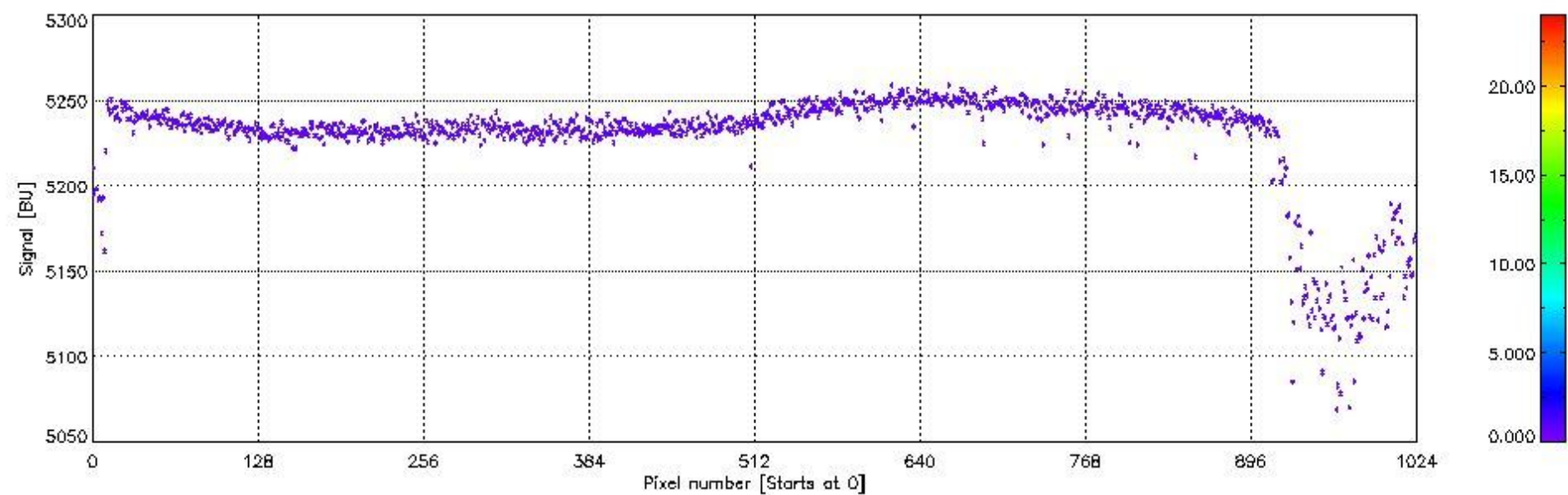
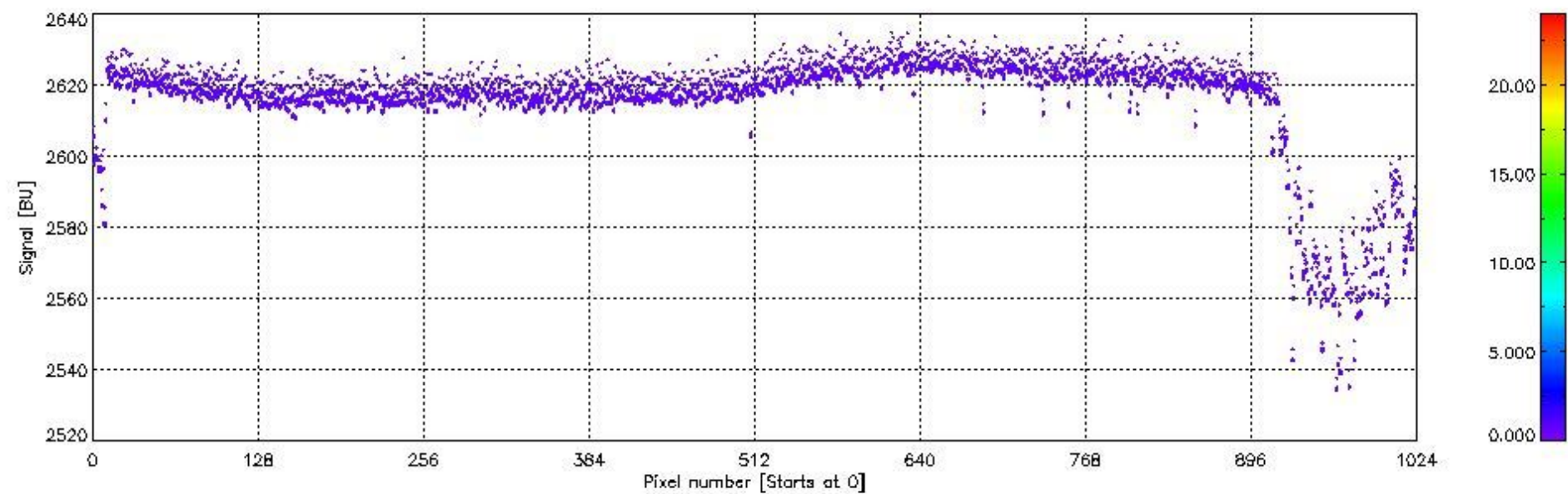
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_4.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 4 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



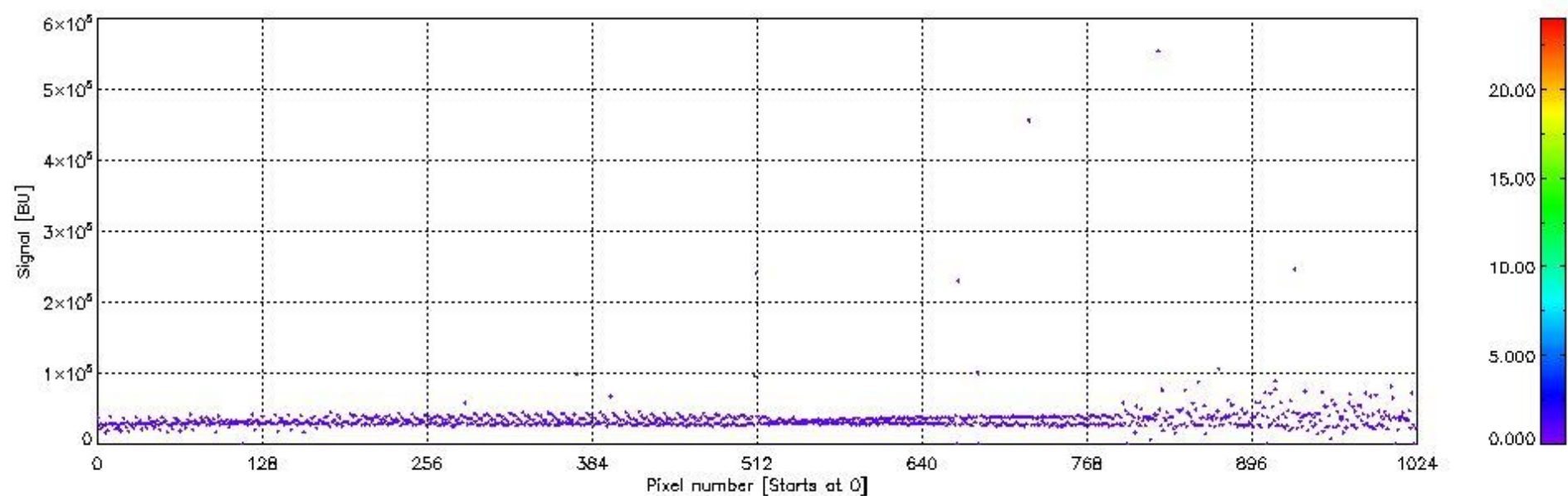
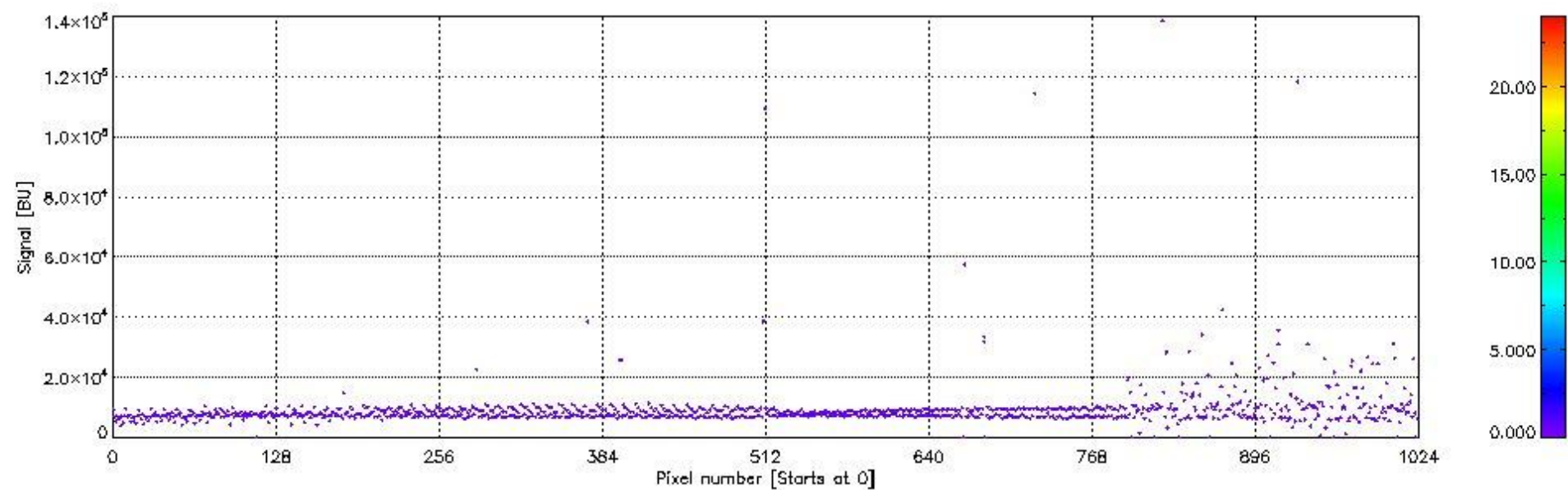
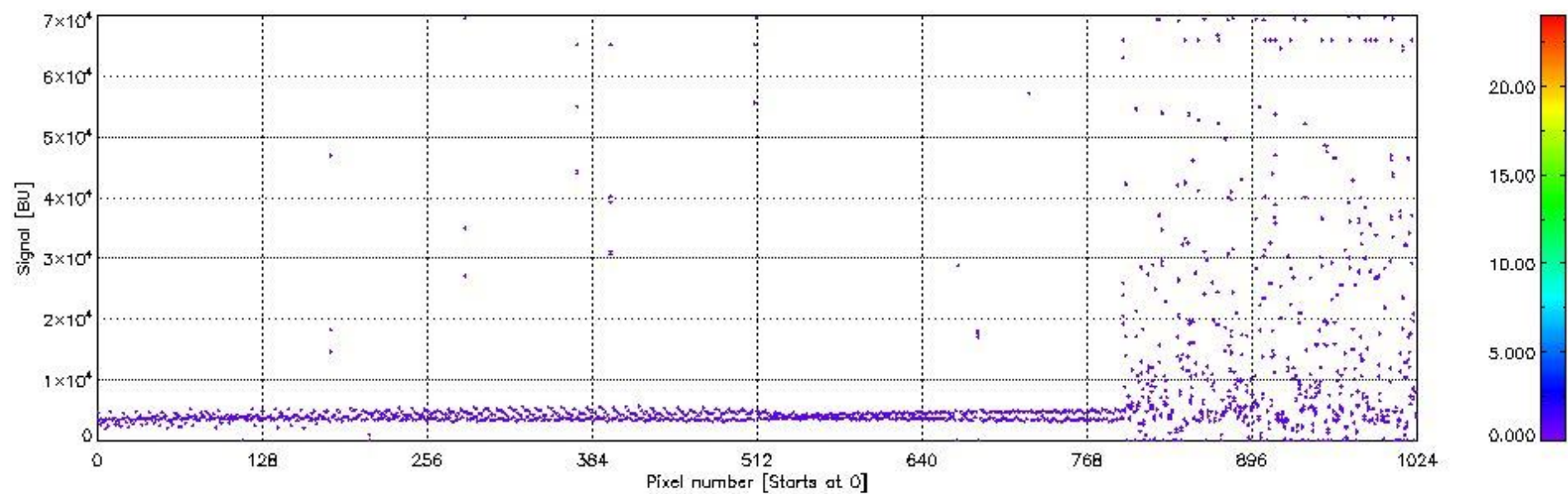
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_5.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 5 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



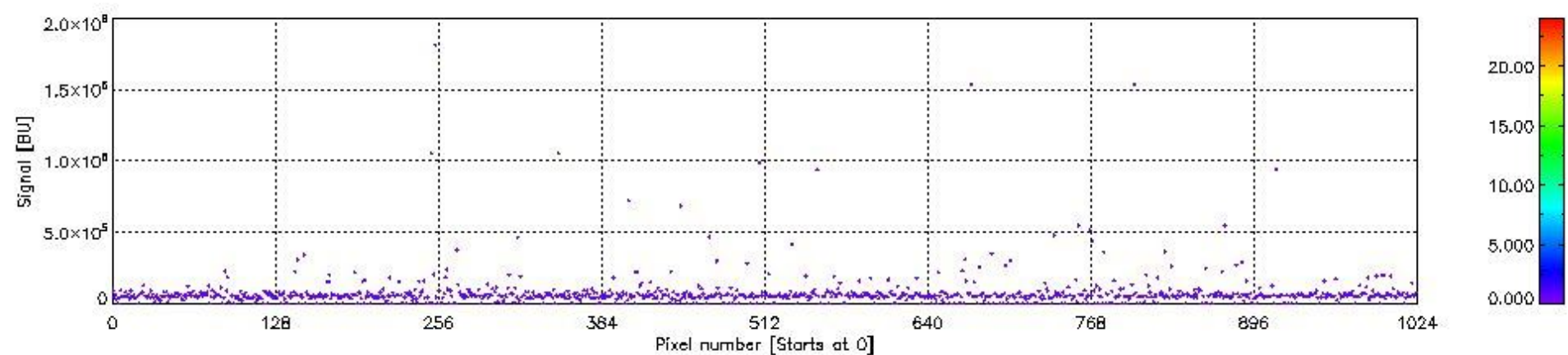
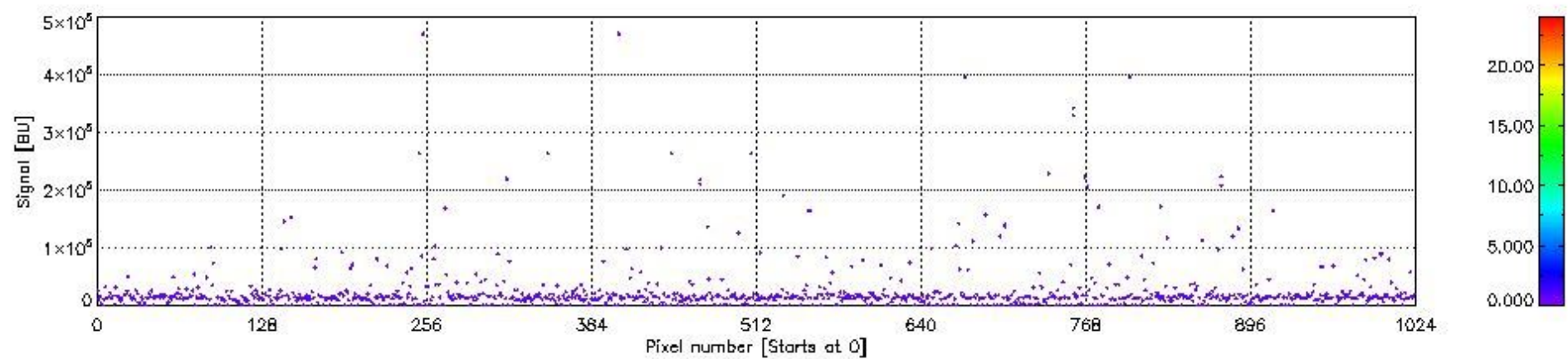
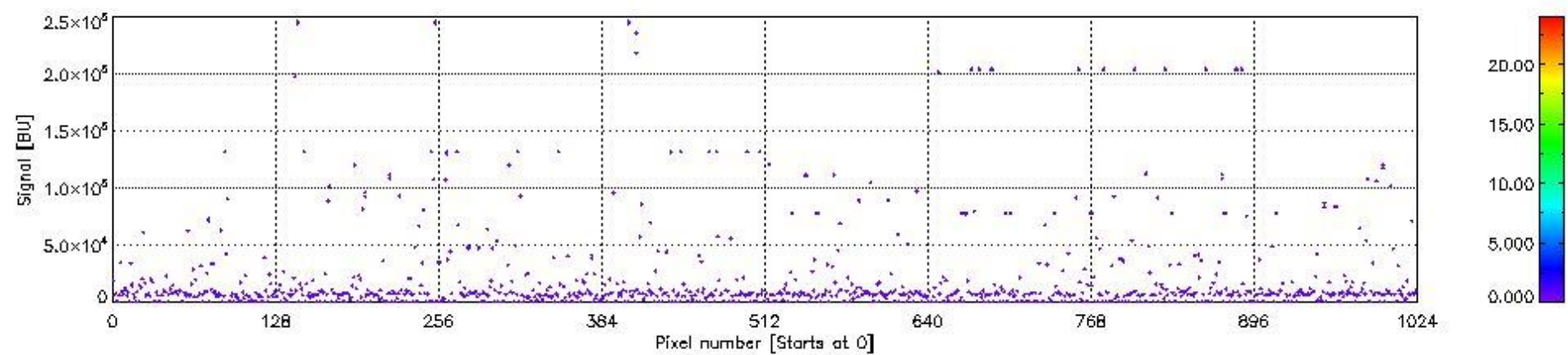
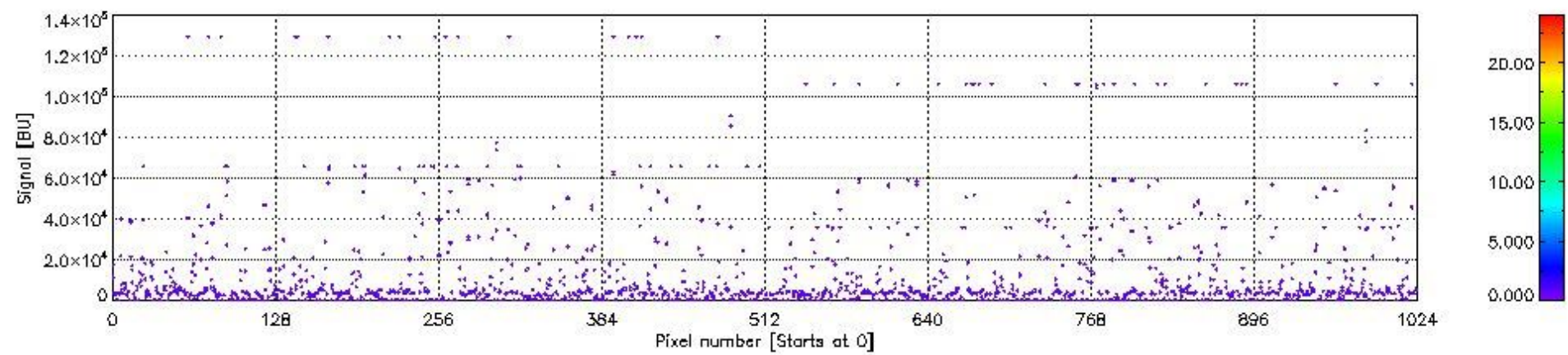
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_6.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 6 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



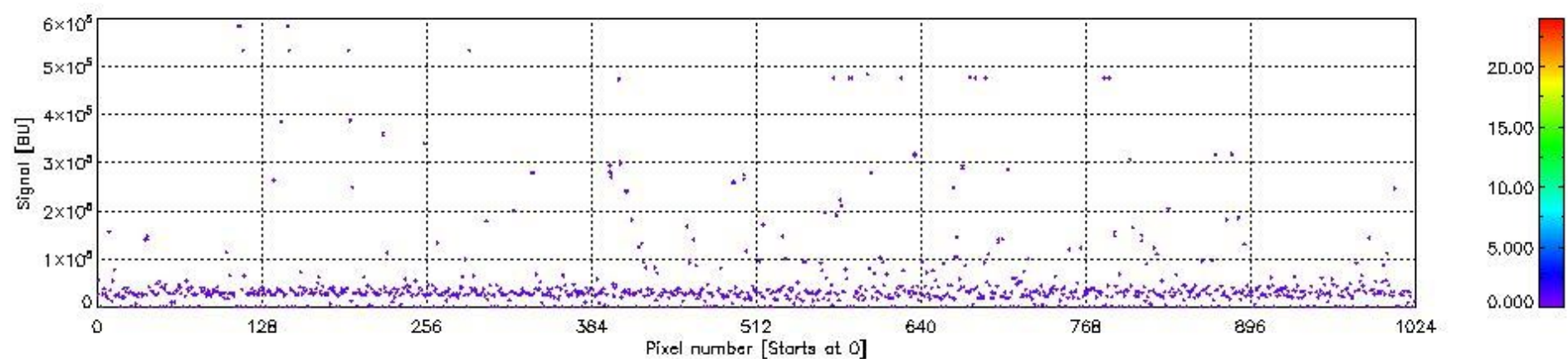
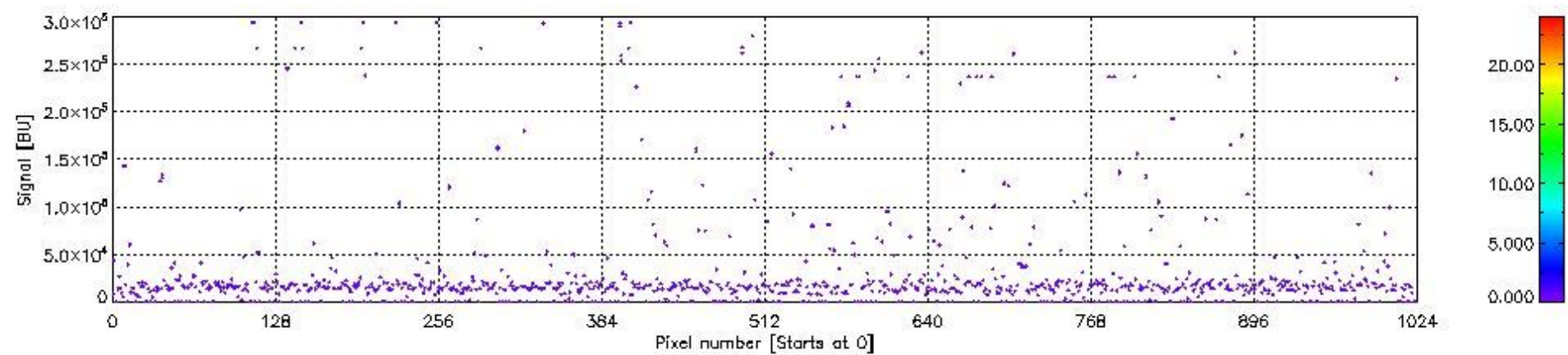
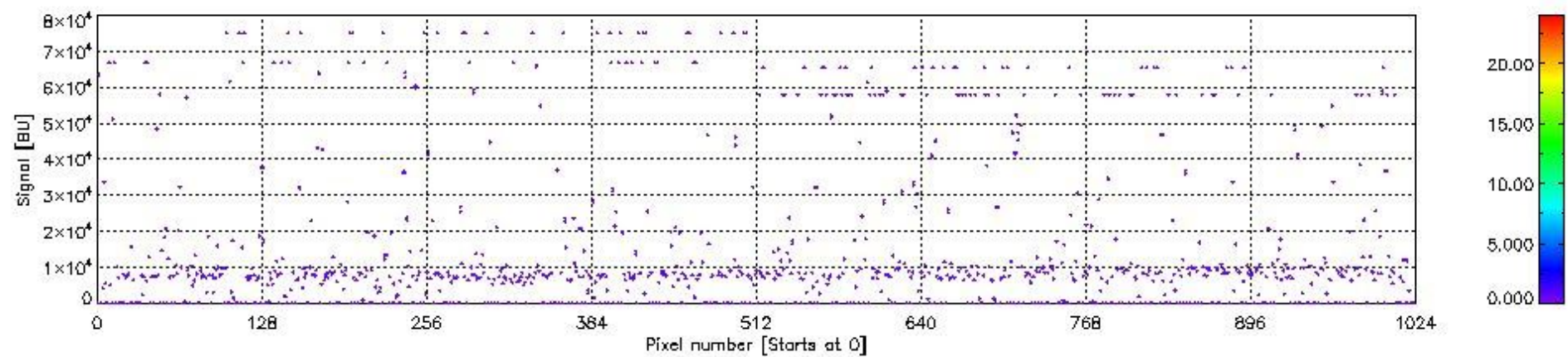
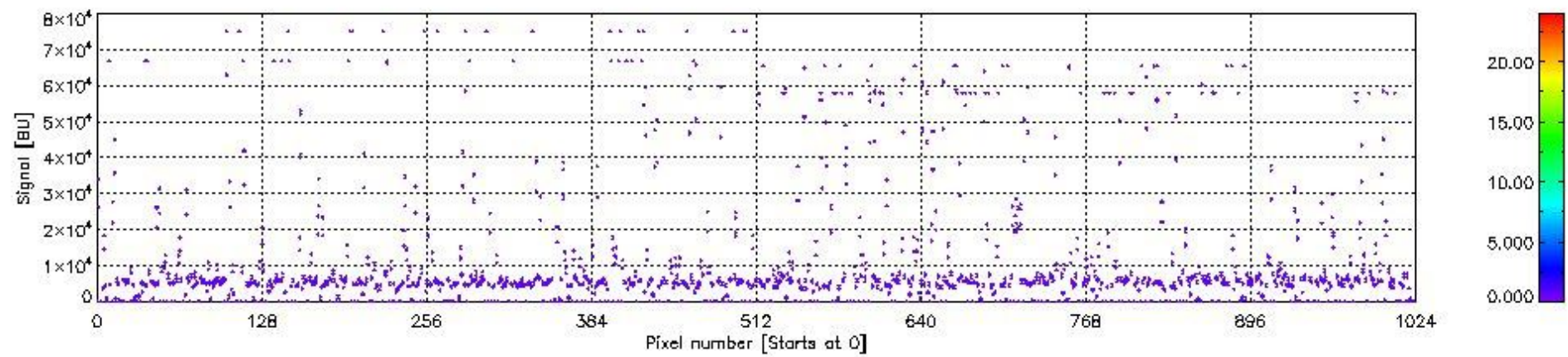
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_7.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 7 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00

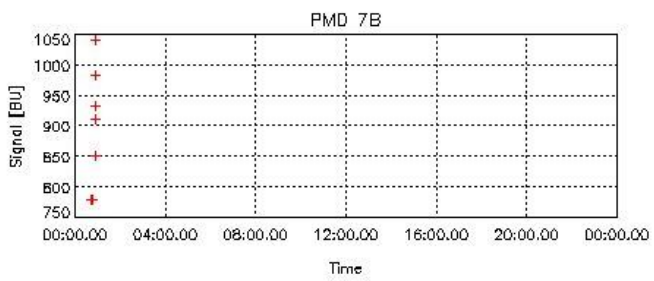
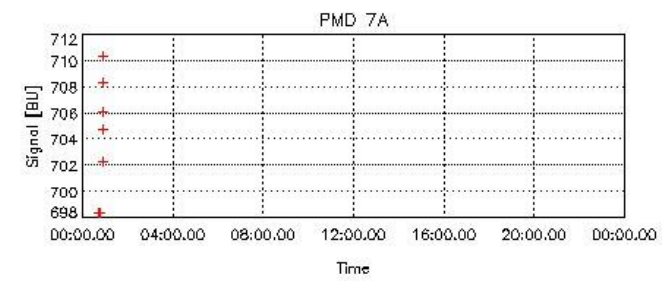
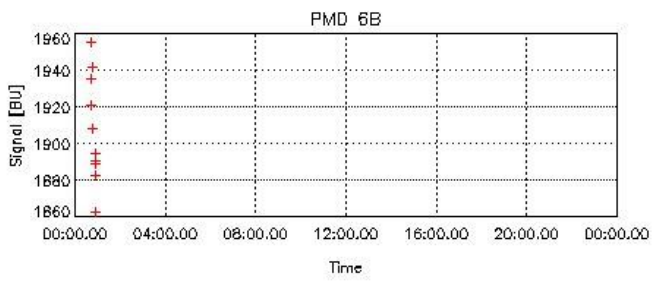
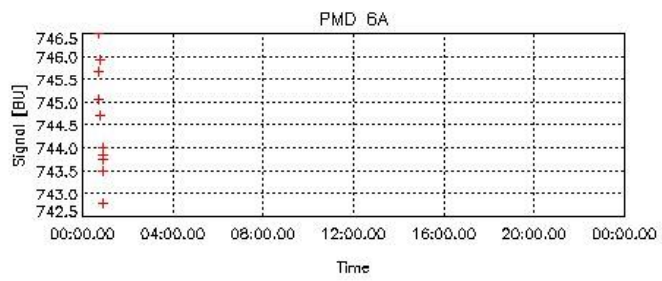
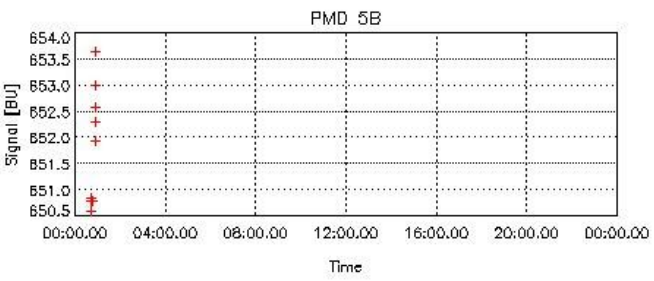
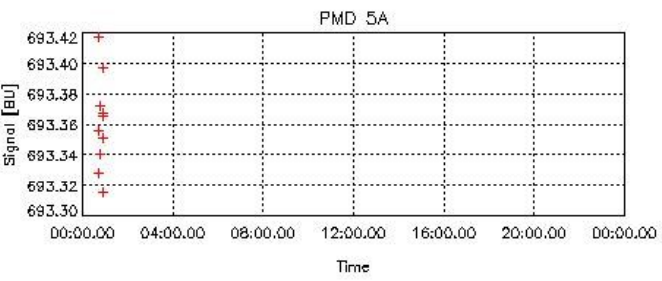
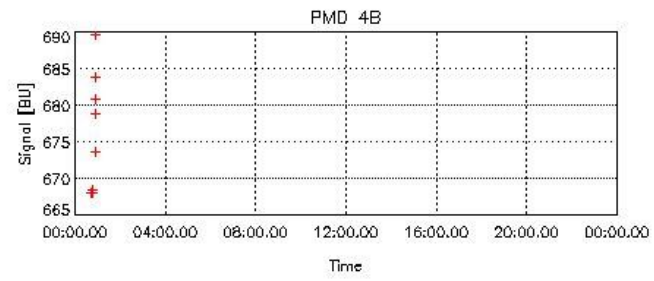
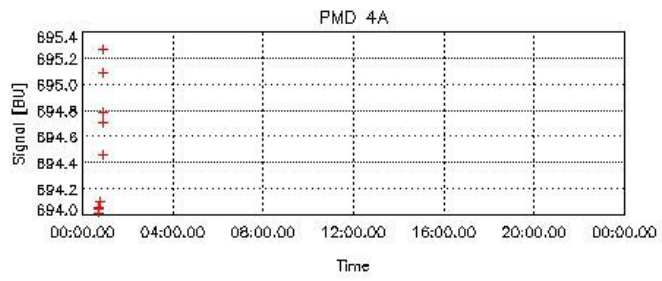
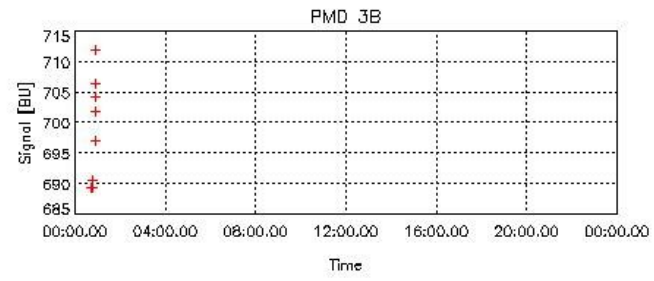
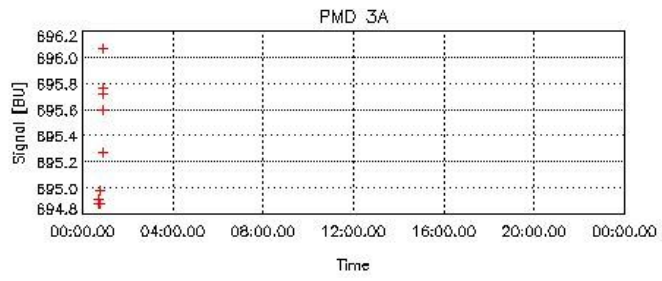
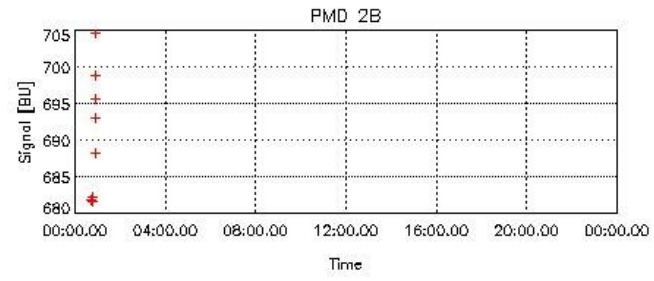
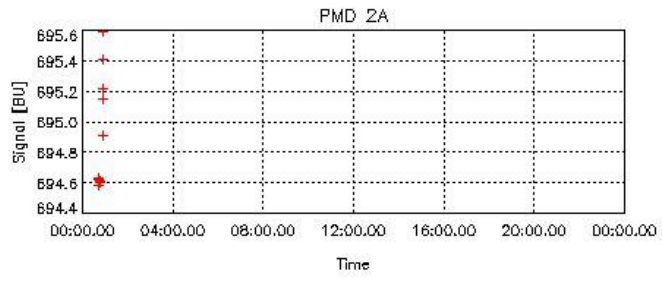
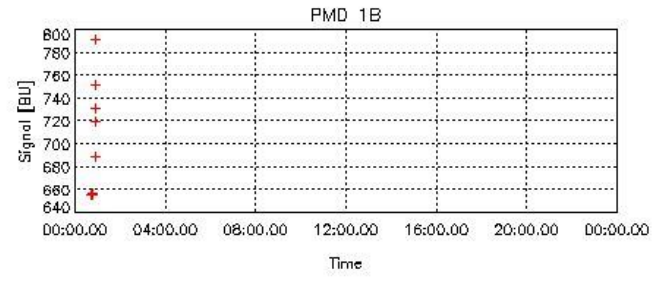
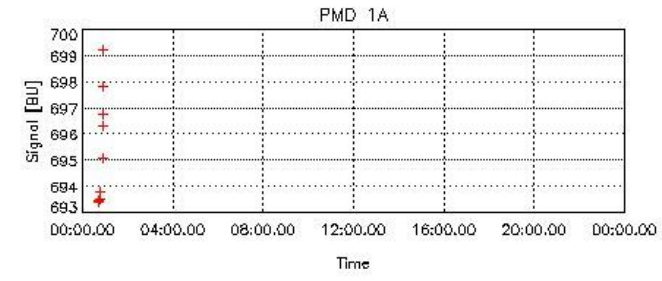


sciamachy_daily_report_level1_SCIA_7_04_U_20110921_8.PNG

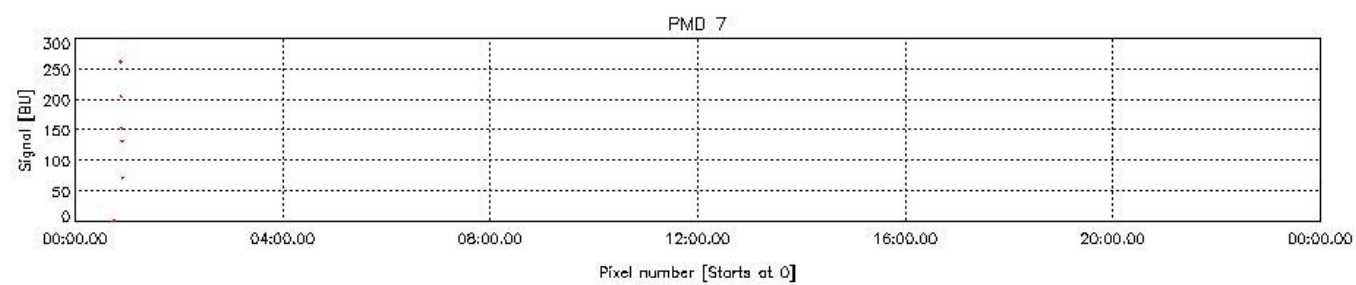
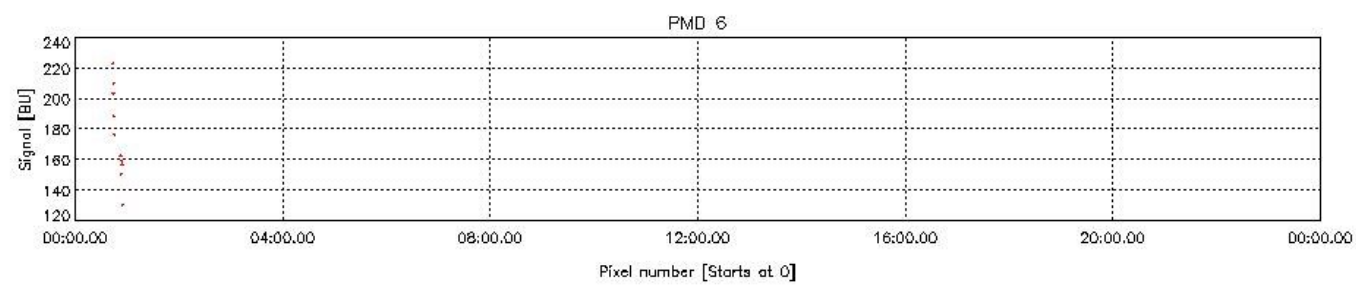
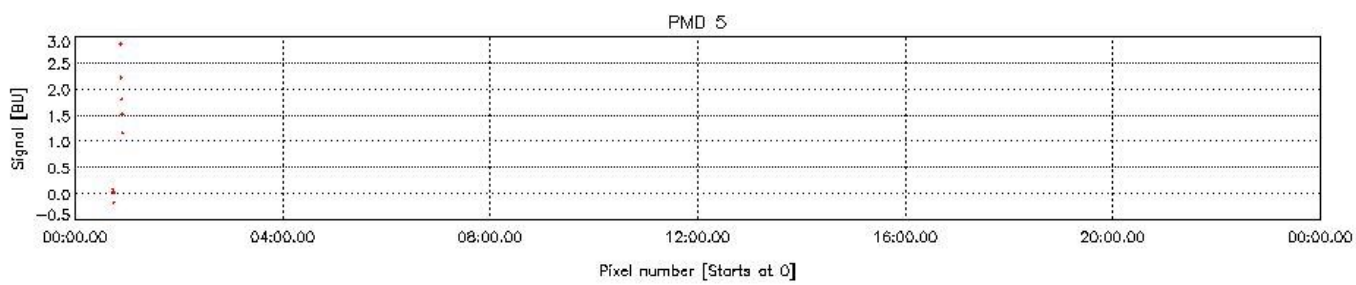
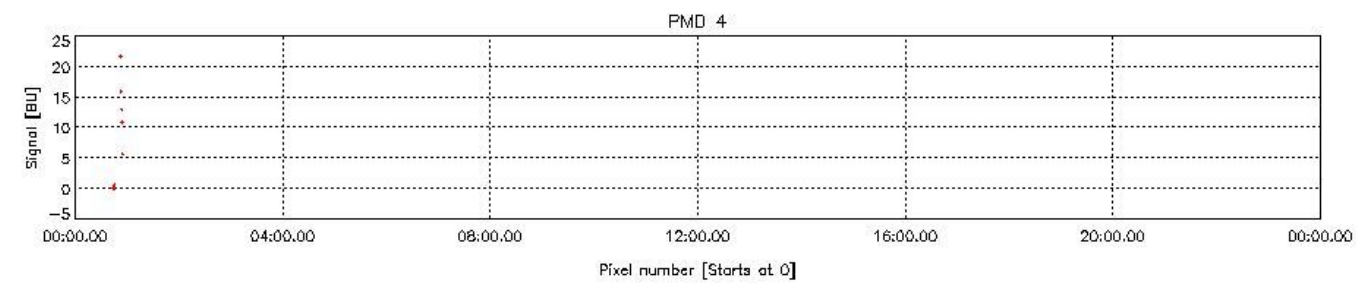
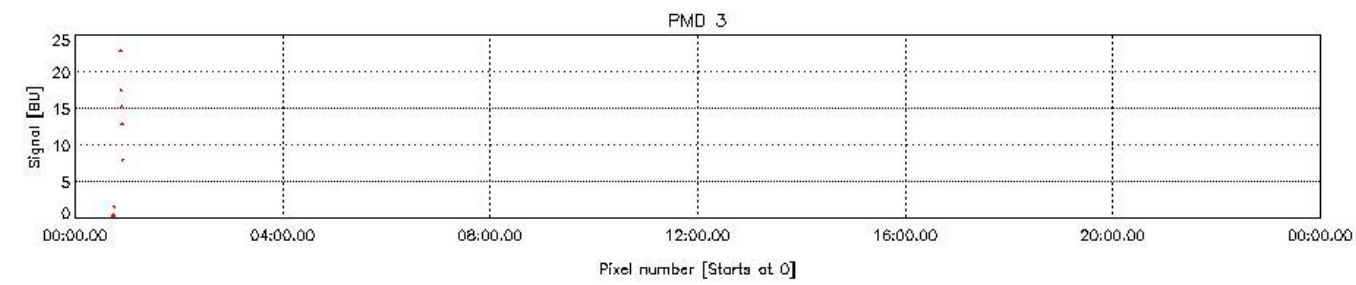
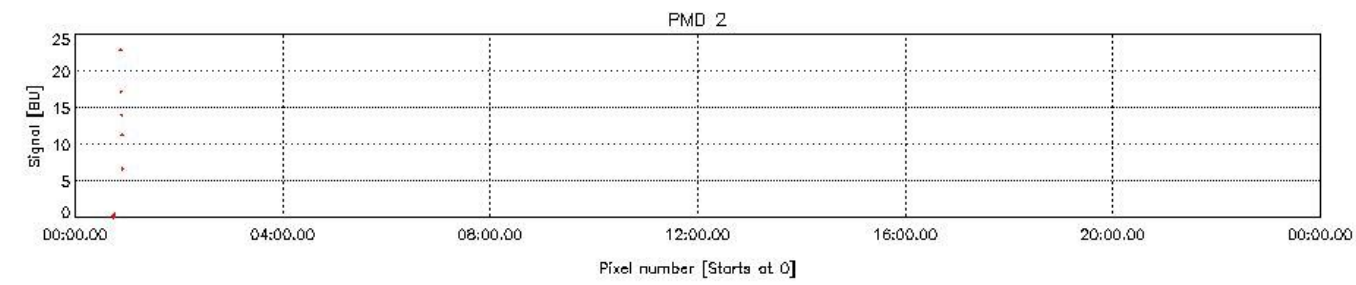
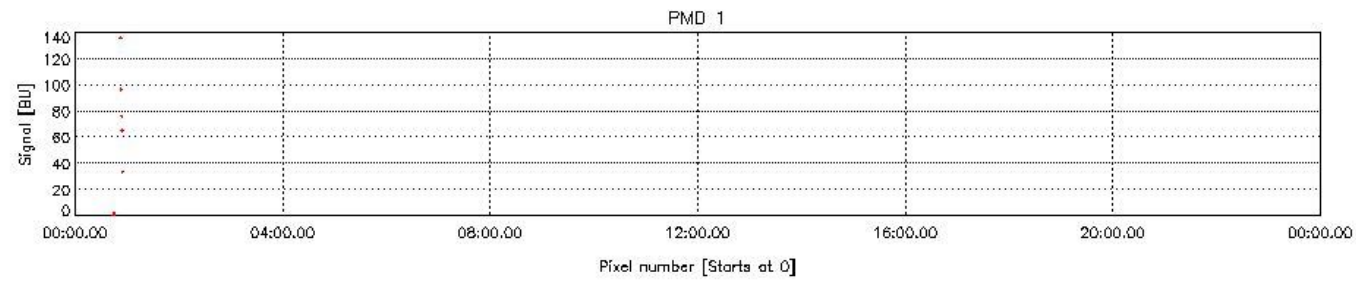
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 8 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00

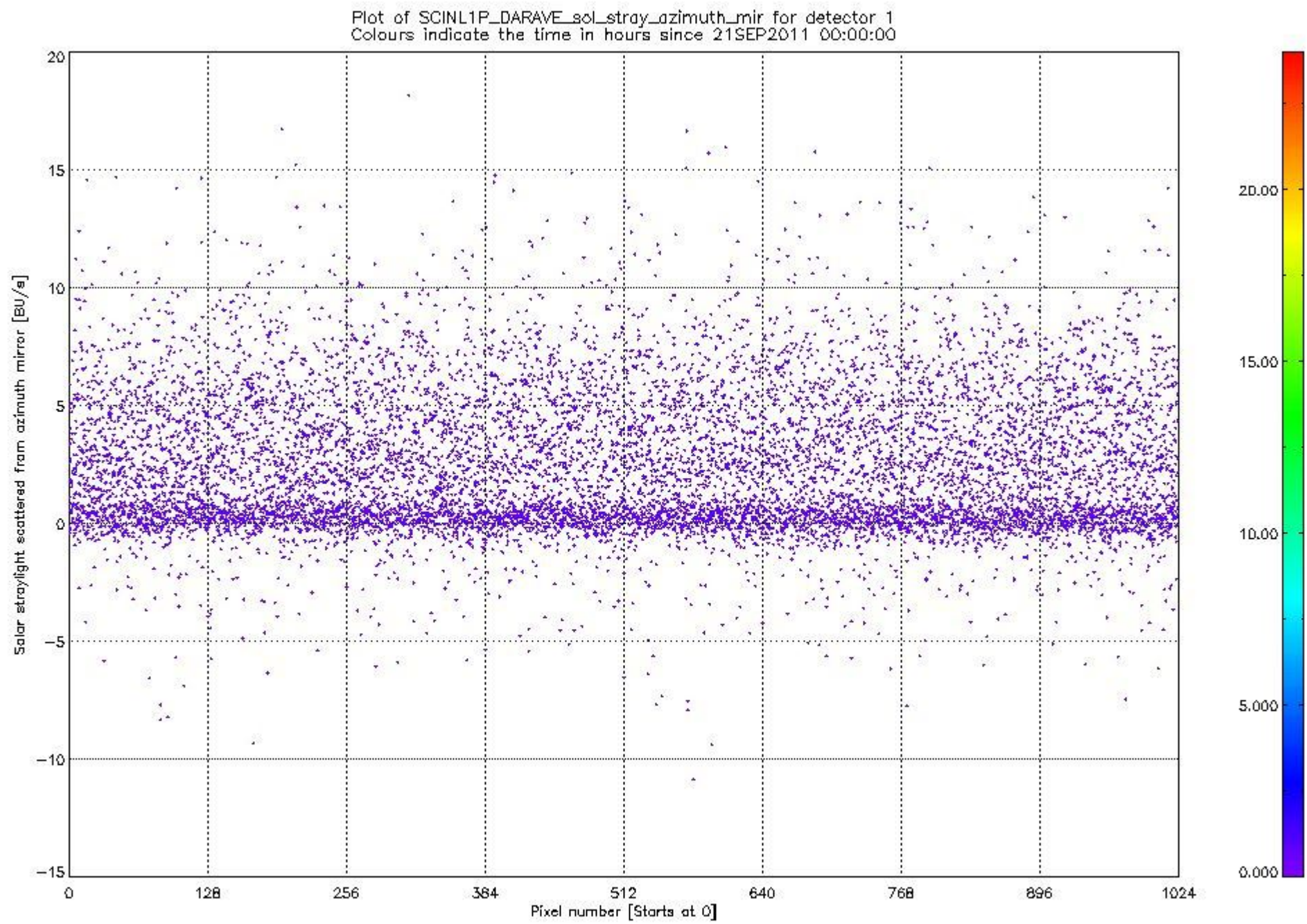


sciamachy_daily_report_level1_SCIA_7_04_U_20110921_9.PNG

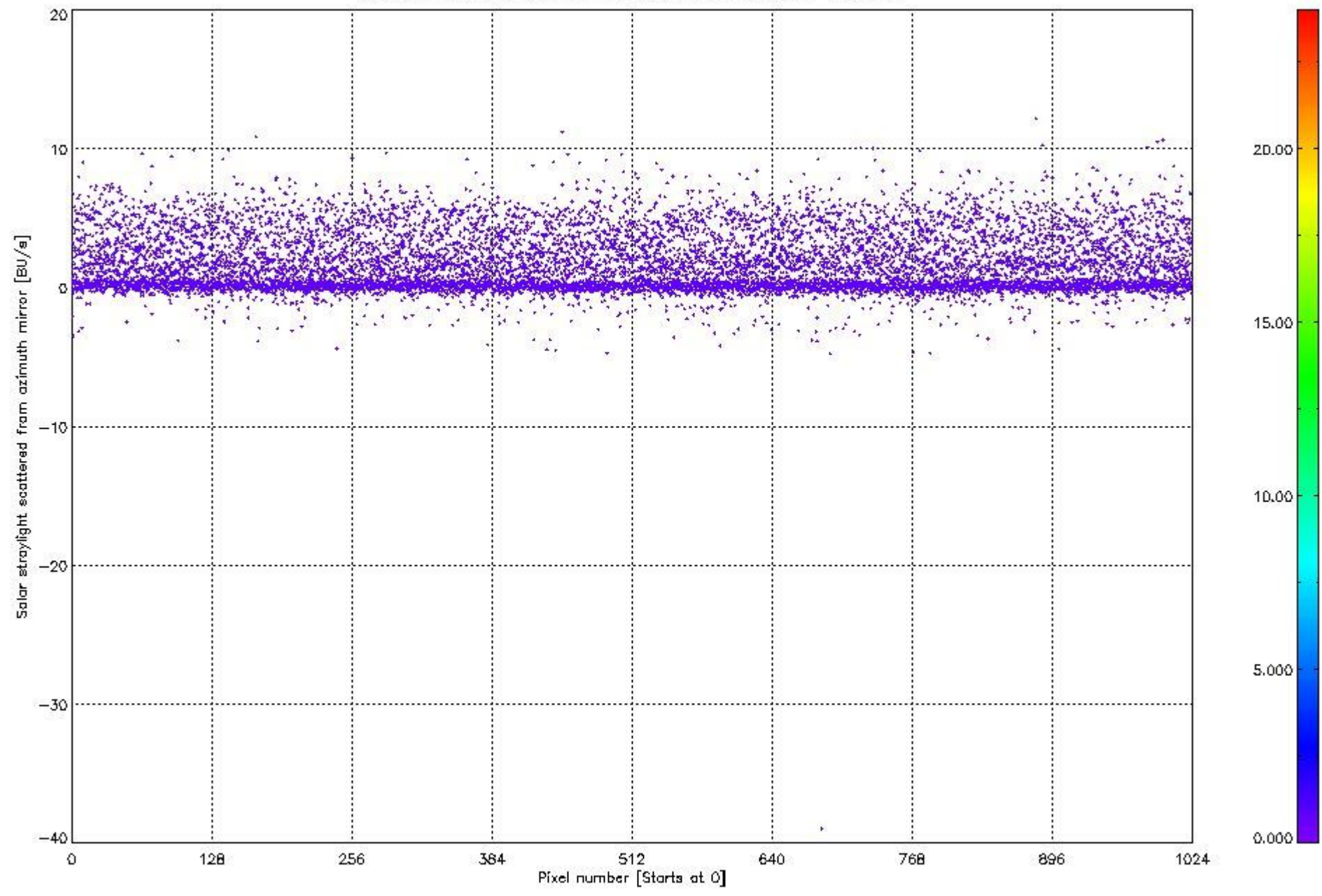


sciamachy_daily_report_level1_SCIA_7_04_U_20110921_10.PNG



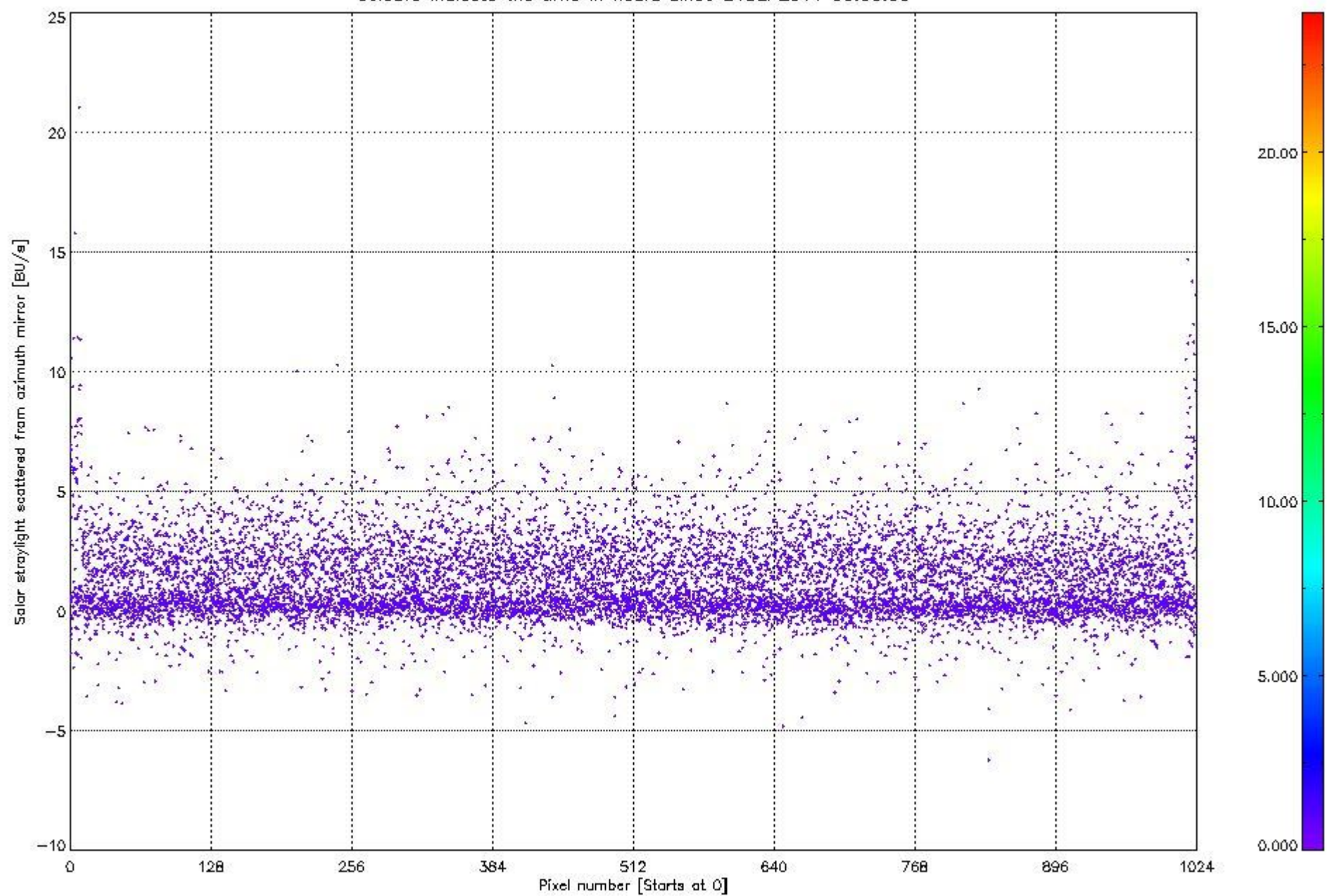


Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 2
Colours indicate the time in hours since 21SEP2011 00:00:00



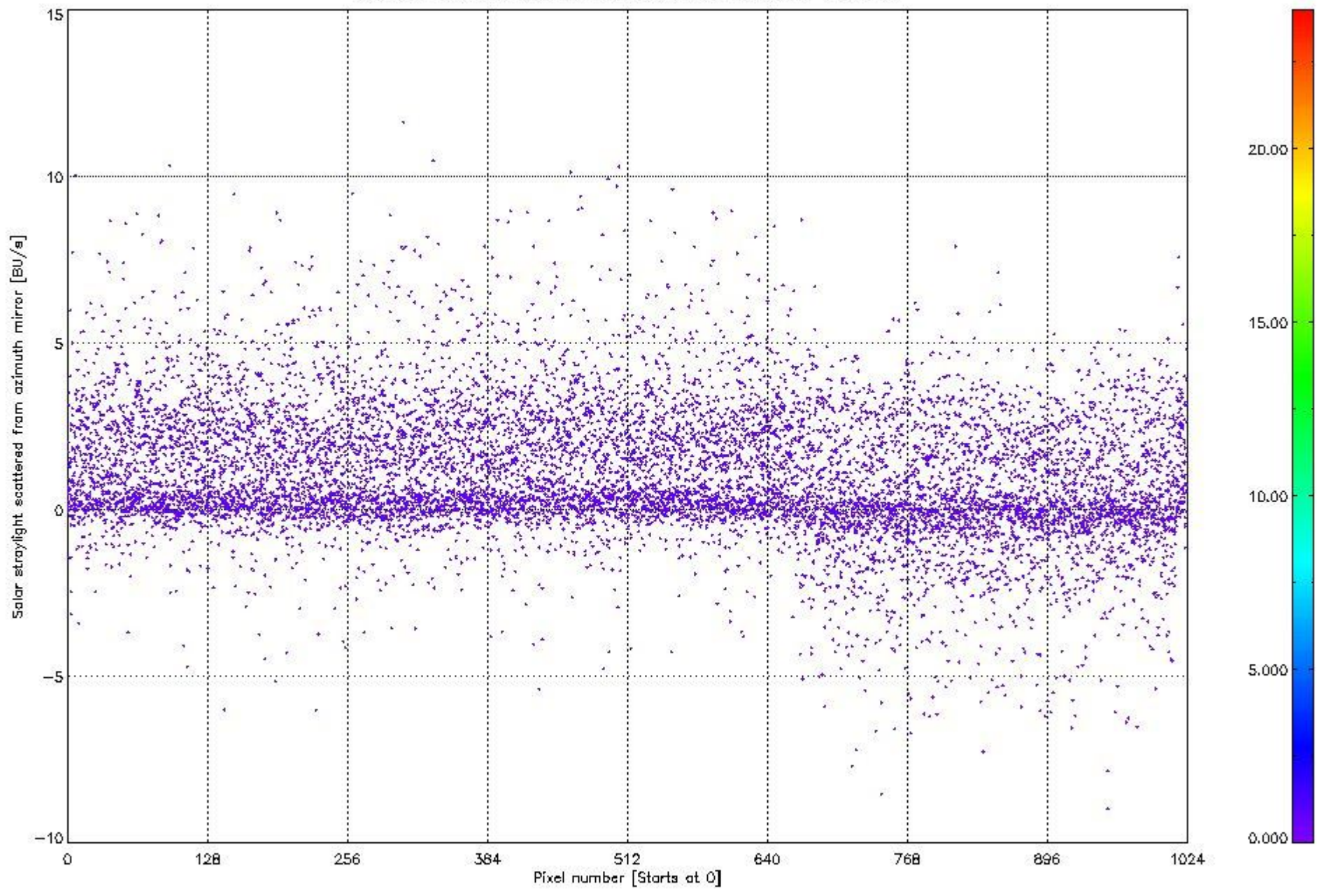
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_13.PNG

Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 3
 Colours indicate the time in hours since 21SEP2011 00:00:00



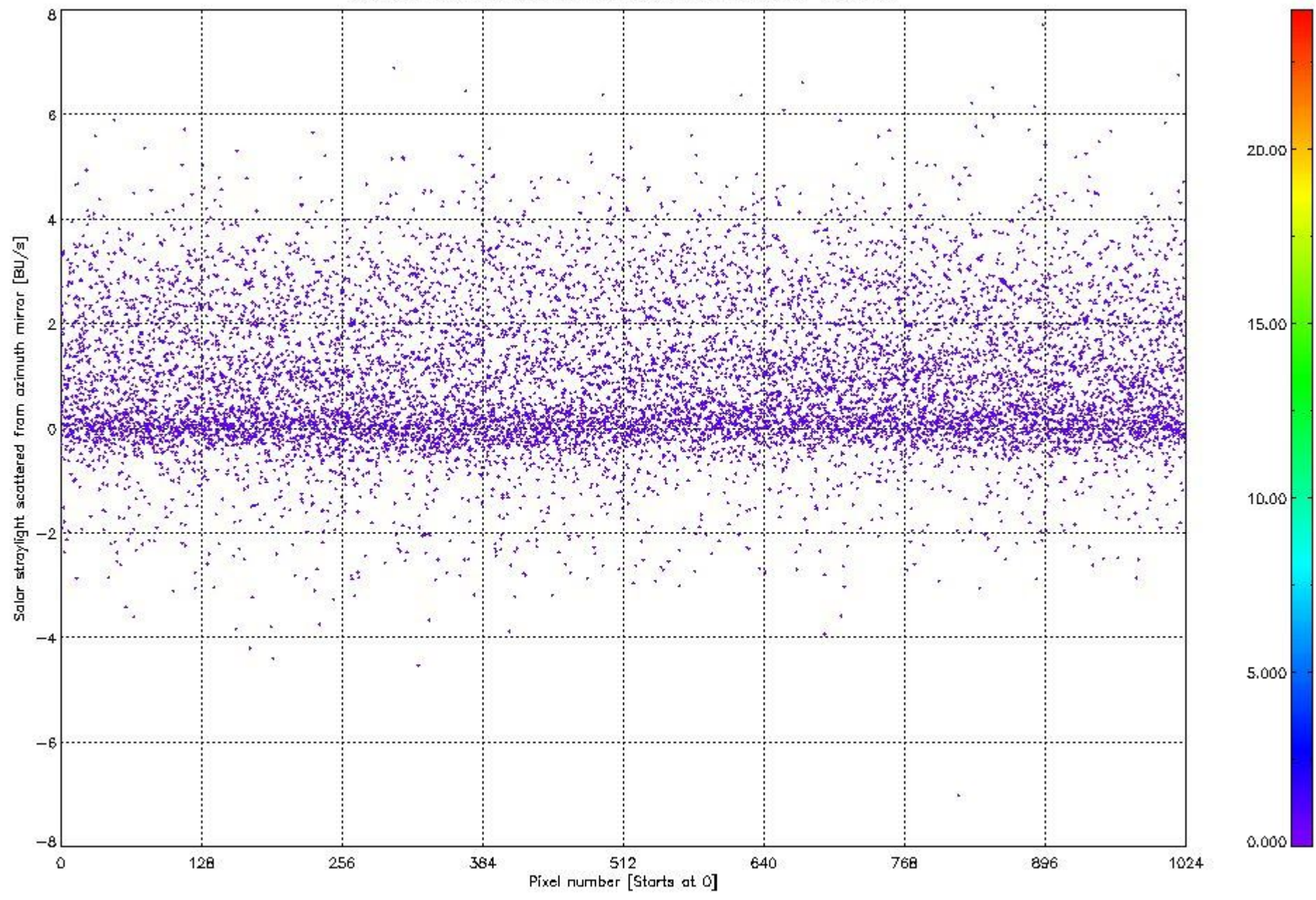
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_14.PNG

Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 4
Colours indicate the time in hours since 21SEP2011 00:00:00



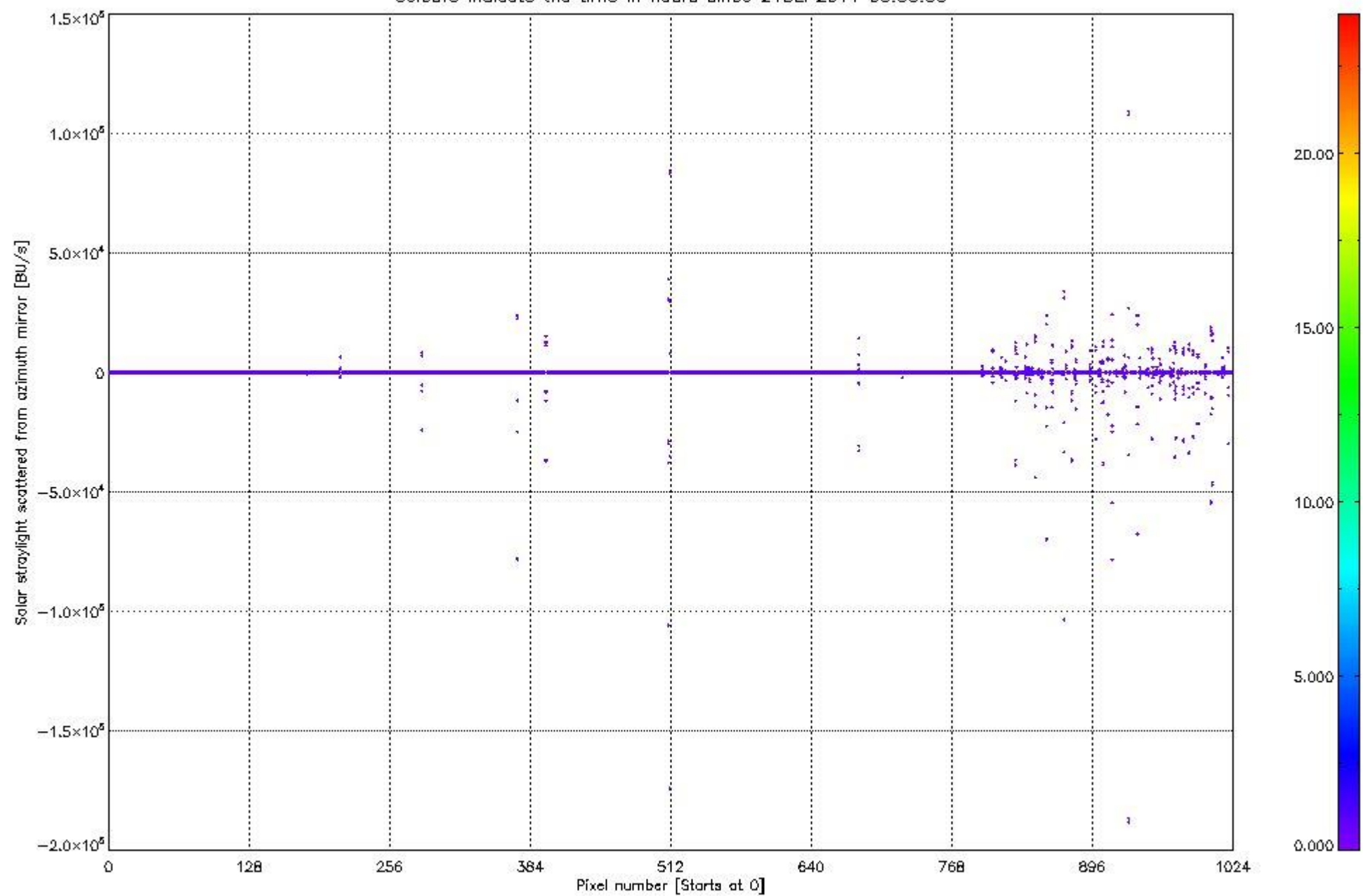
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_15.PNG

Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 5
Colours indicate the time in hours since 21SEP2011 00:00:00



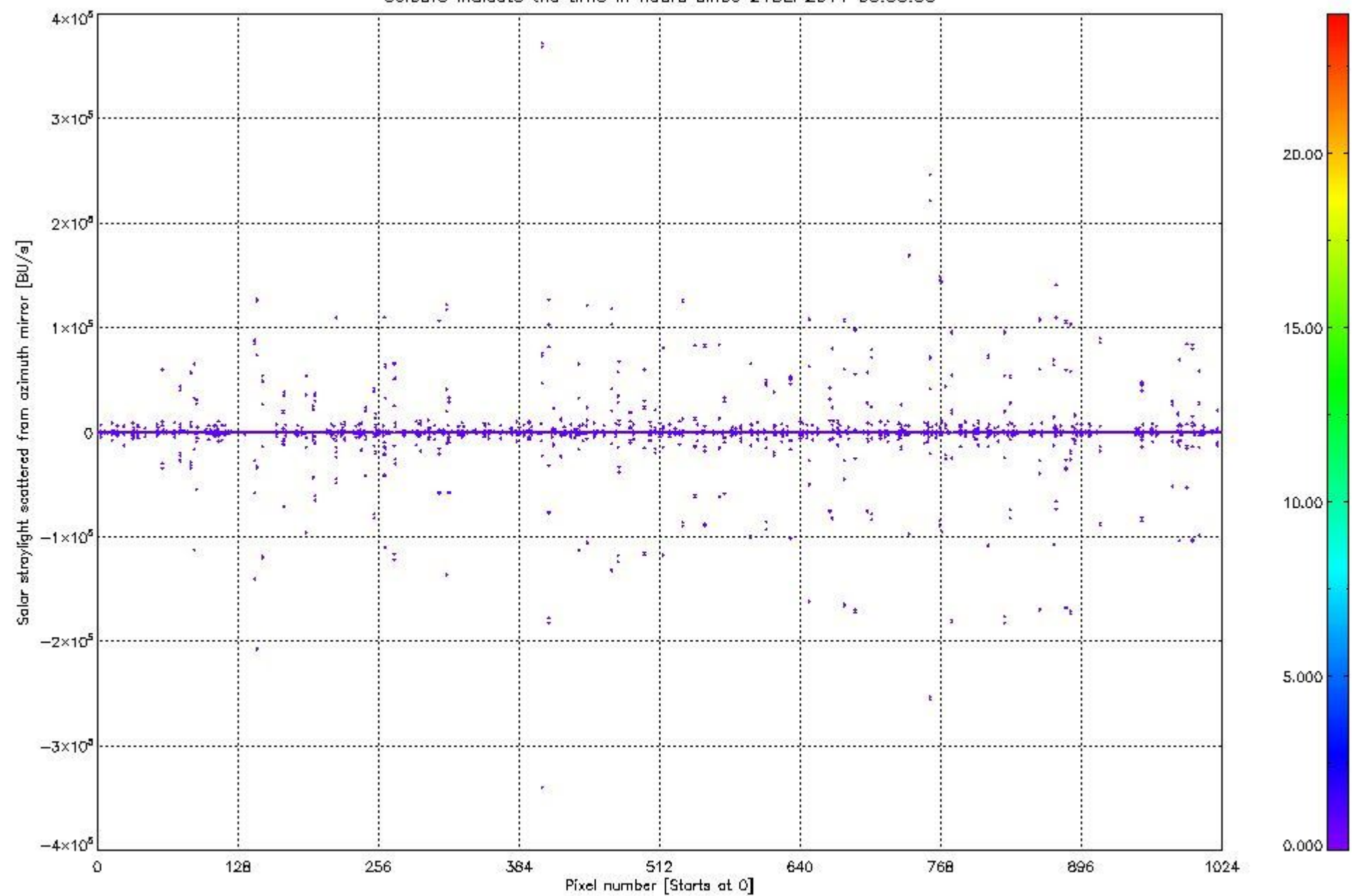
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_16.PNG

Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 6
 Colours indicate the time in hours since 21SEP2011 00:00:00

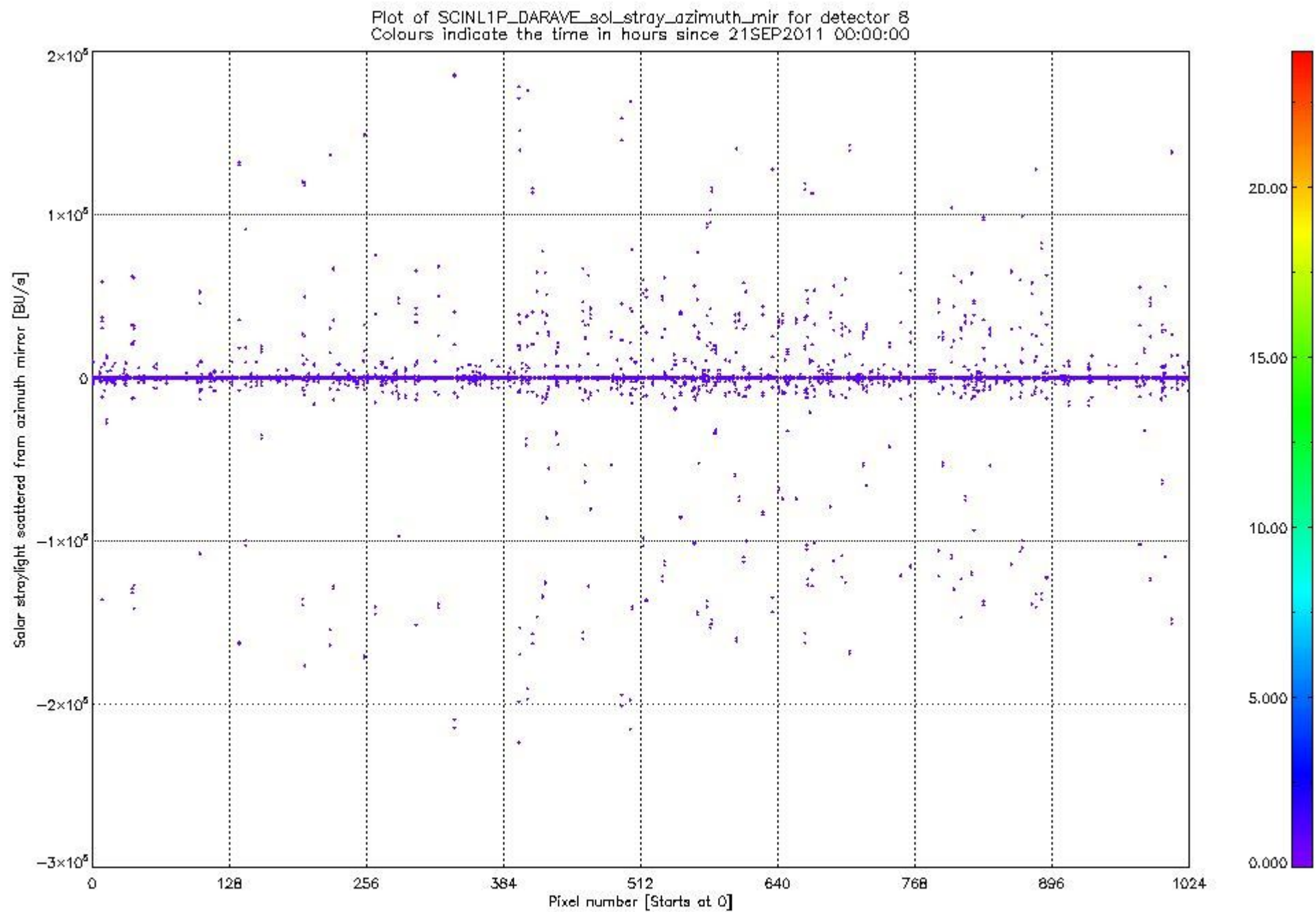


sciamachy_daily_report_level1_SCIA_7_04_U_20110921_17.PNG

Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 7
 Colours indicate the time in hours since 21SEP2011 00:00:00



sciamachy_daily_report_level1_SCIA_7_04_U_20110921_18.PNG



sciamachy_daily_report_level1_SCIA_7_04_U_20110921_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)

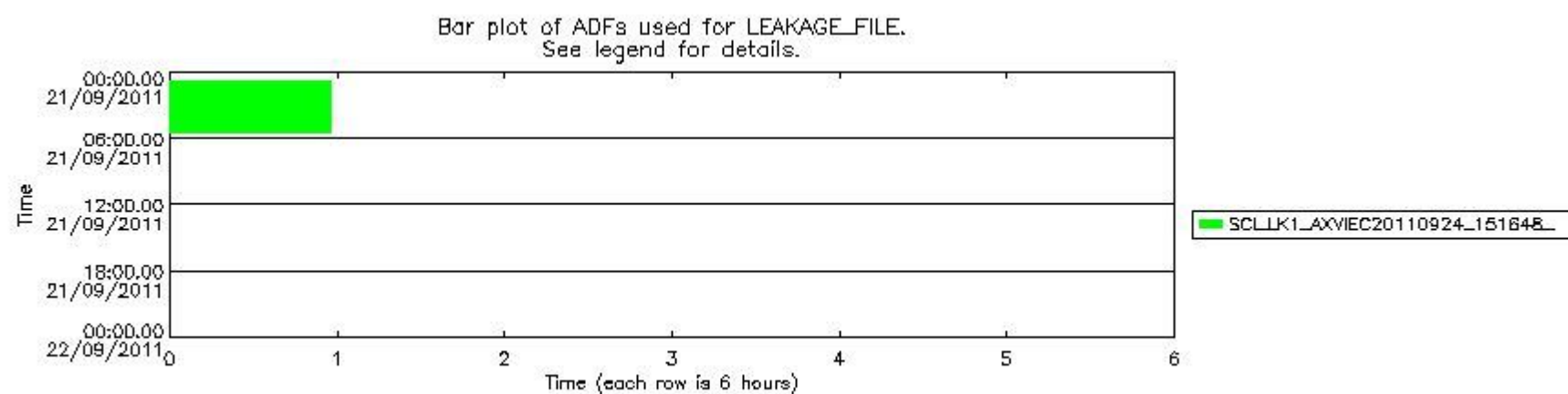
1.3 ADF monitoring

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

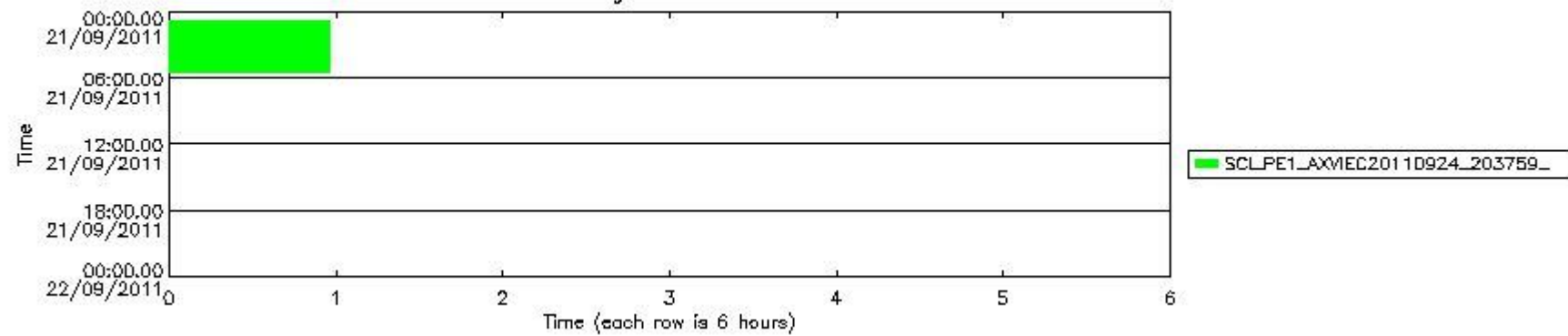
- A table showing which ADFs having a start validity of the current time scope are currently available (if present).
- A table showing which ADFs were used for processing (red values indicate that multiple ADFs of the same type were used)
- Various time line plots, one for each ADF, which show when which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

Number	ADF name
0	SCI_PE1_AXVIEC20110924_205337_20110921_033613_20111005_051939

Number	ADF
	LK1 (LEAKAGE_FILE)
0	SCI_LK1_AXVIEC20110924_151648_20110920_055616_20111119_073819
	PE1 (PPG_ETALON_FILE)
1	SCI_PE1_AXVIEC20110924_203759_20110920_212450_20111004_230717
	SP1 (SPECTRAL_FILE)
2	SCI_SP1_AXVIEC20110921_152320_20110918_180639_20111217_194748
	SU1 (SUN_REF_FILE)
3	SCI_SU1_AXVIEC20110922_184254_20110919_173040_20111004_191016
	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_AXVPDS20110924_102113_20110920_221000_20110923_005000
	ATT (ATTITUDE_FILE)
8	AUX_FRA_AXVFOS20110923_180501_20110920_000000_20110922_000000

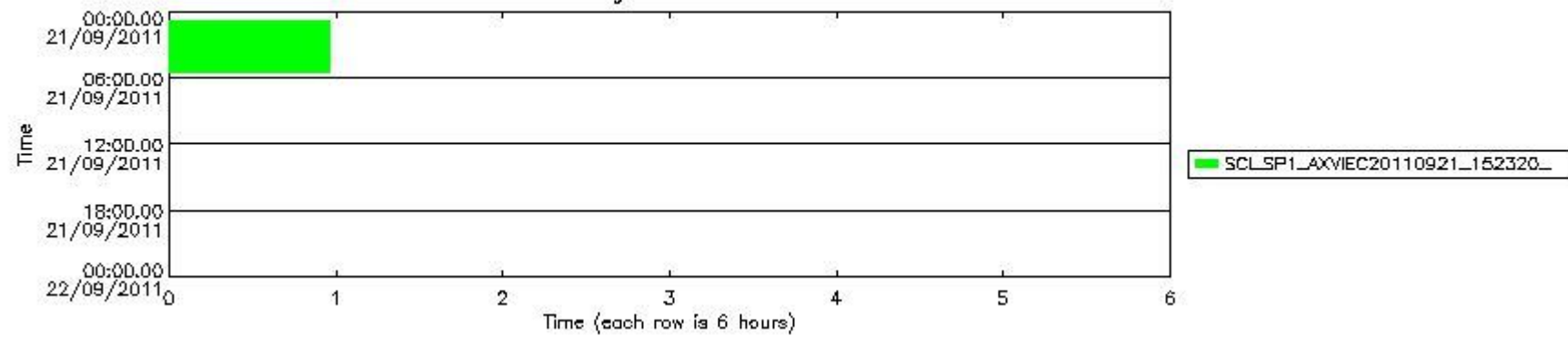


Bar plot of ADFs used for PPG_ETALON_FILE.
See legend for details.



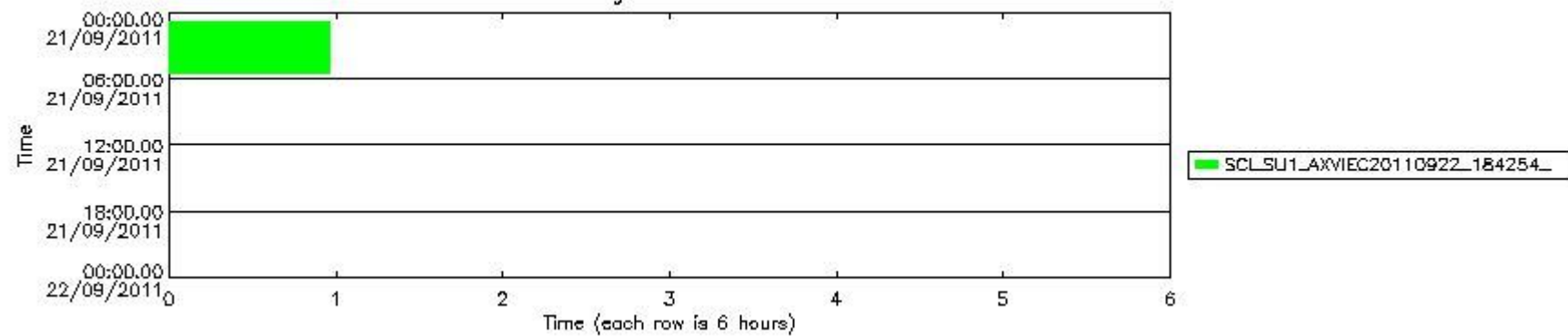
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_21.PNG

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



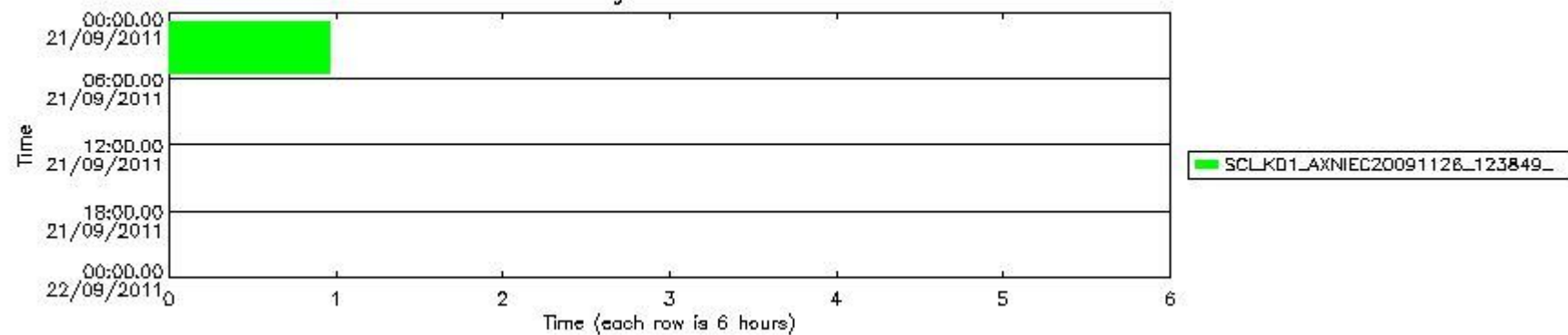
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_22.PNG

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

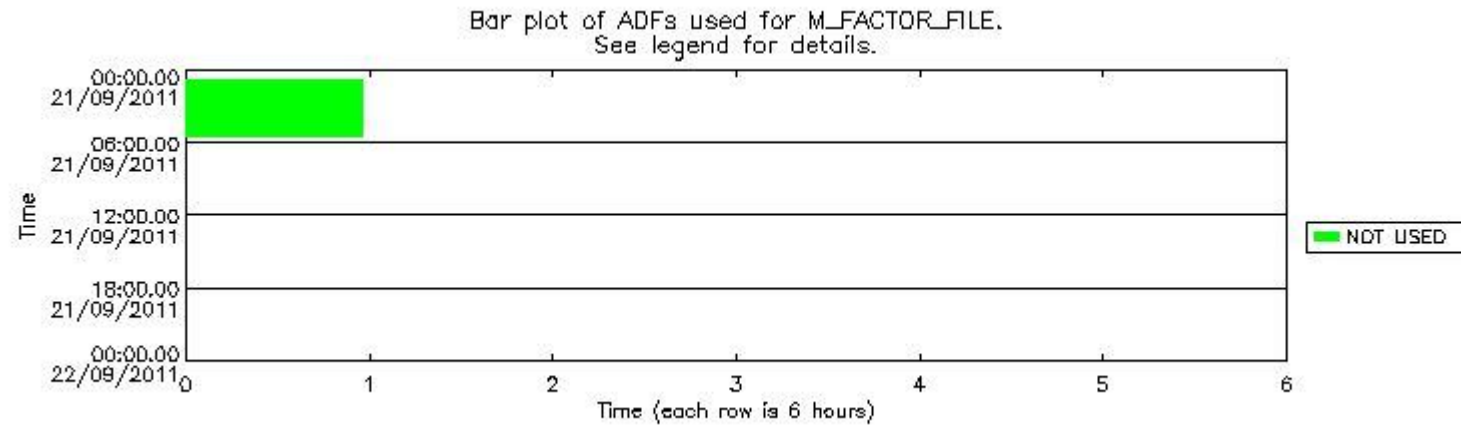


sciamachy_daily_report_level1_SCIA_7_04_U_20110921_23.PNG

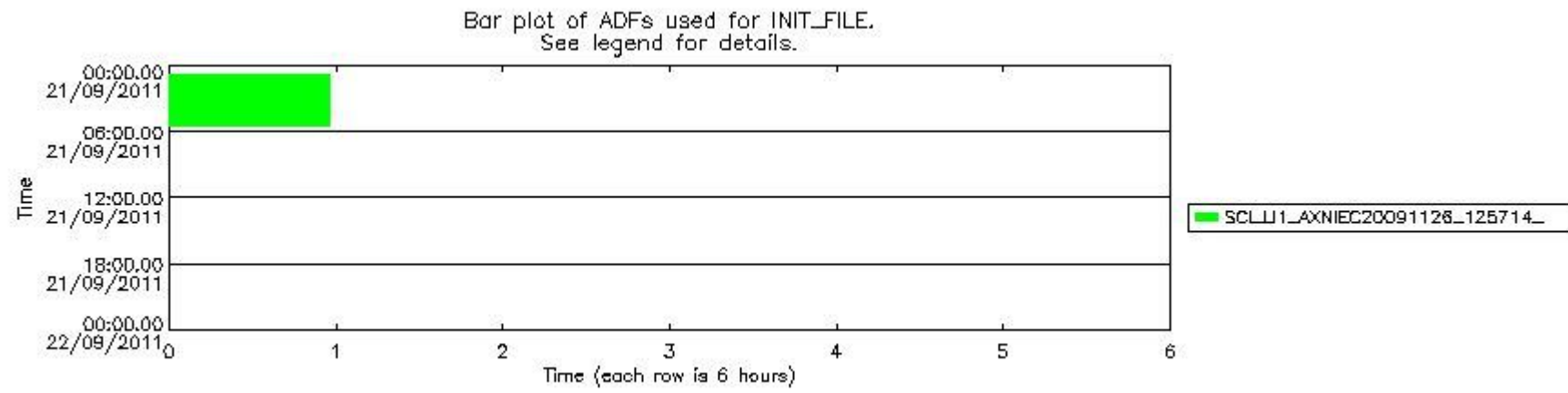
Bar plot of ADFs used for KEY_DATA_FILE.
See legend for details.



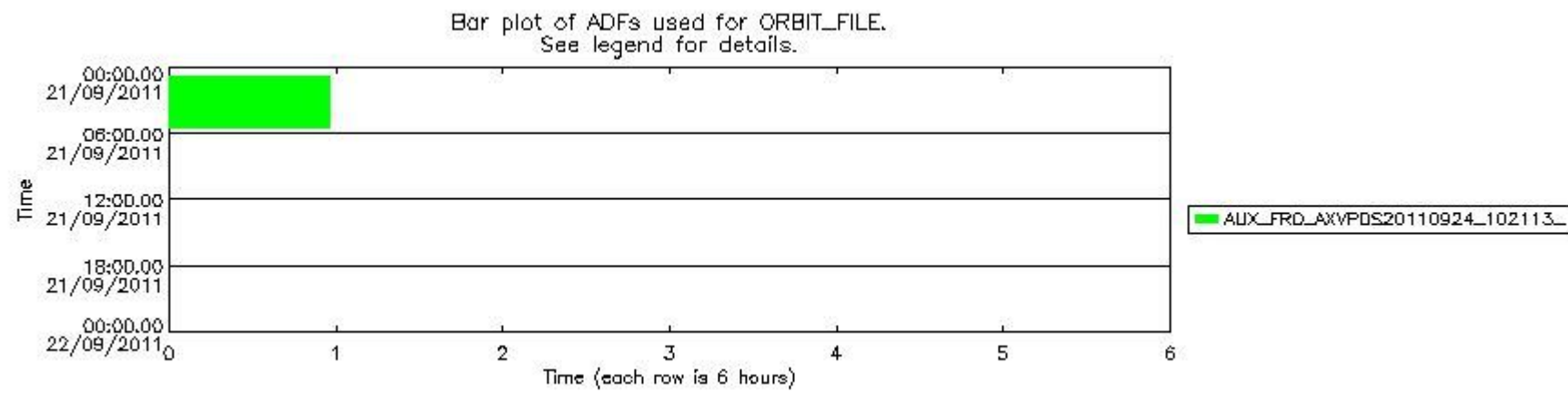
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_24.PNG



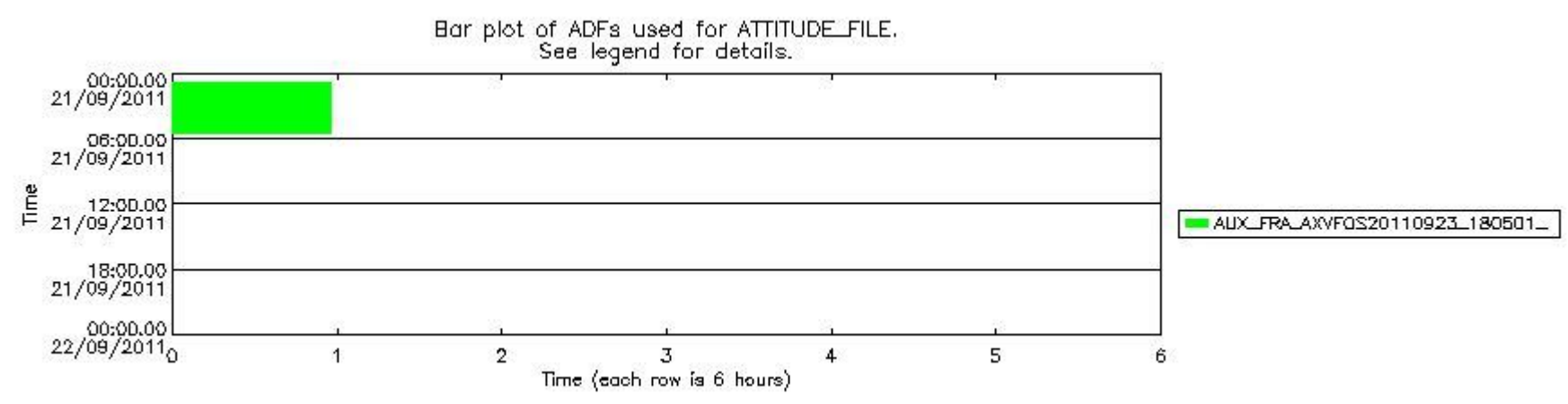
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_25.PNG



sciamachy_daily_report_level1_SCIA_7_04_U_20110921_26.PNG



sciamachy_daily_report_level1_SCIA_7_04_U_20110921_27.PNG

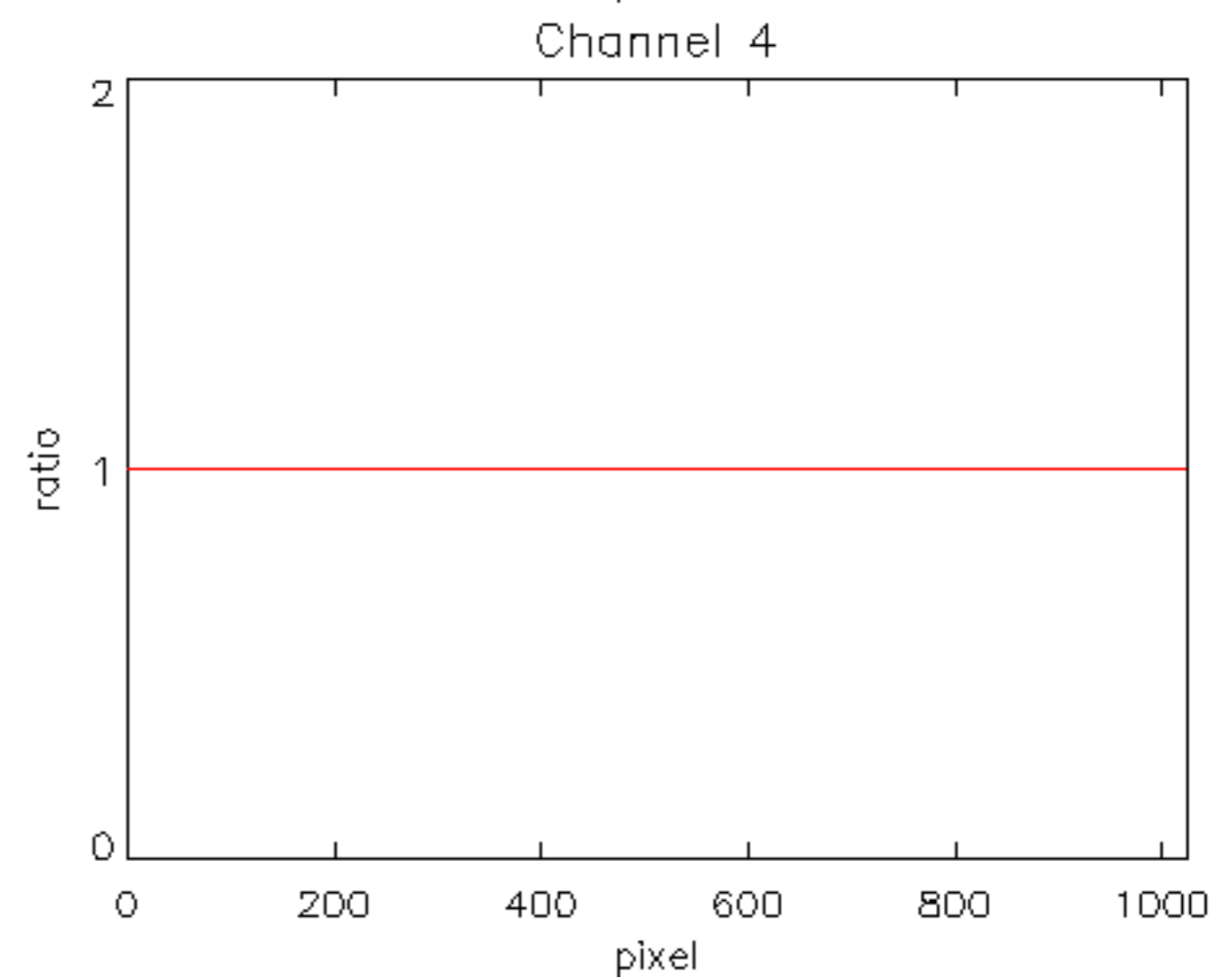
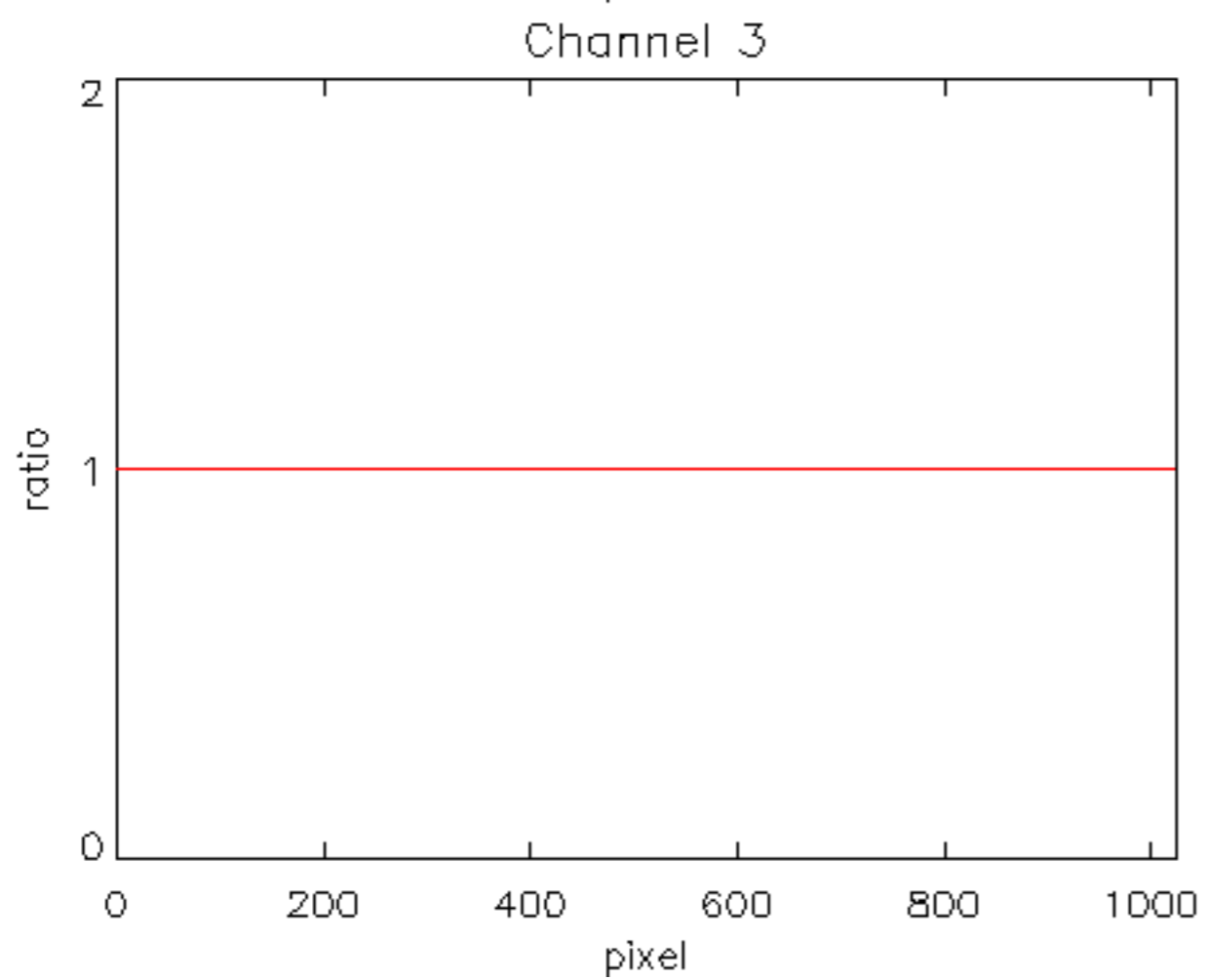
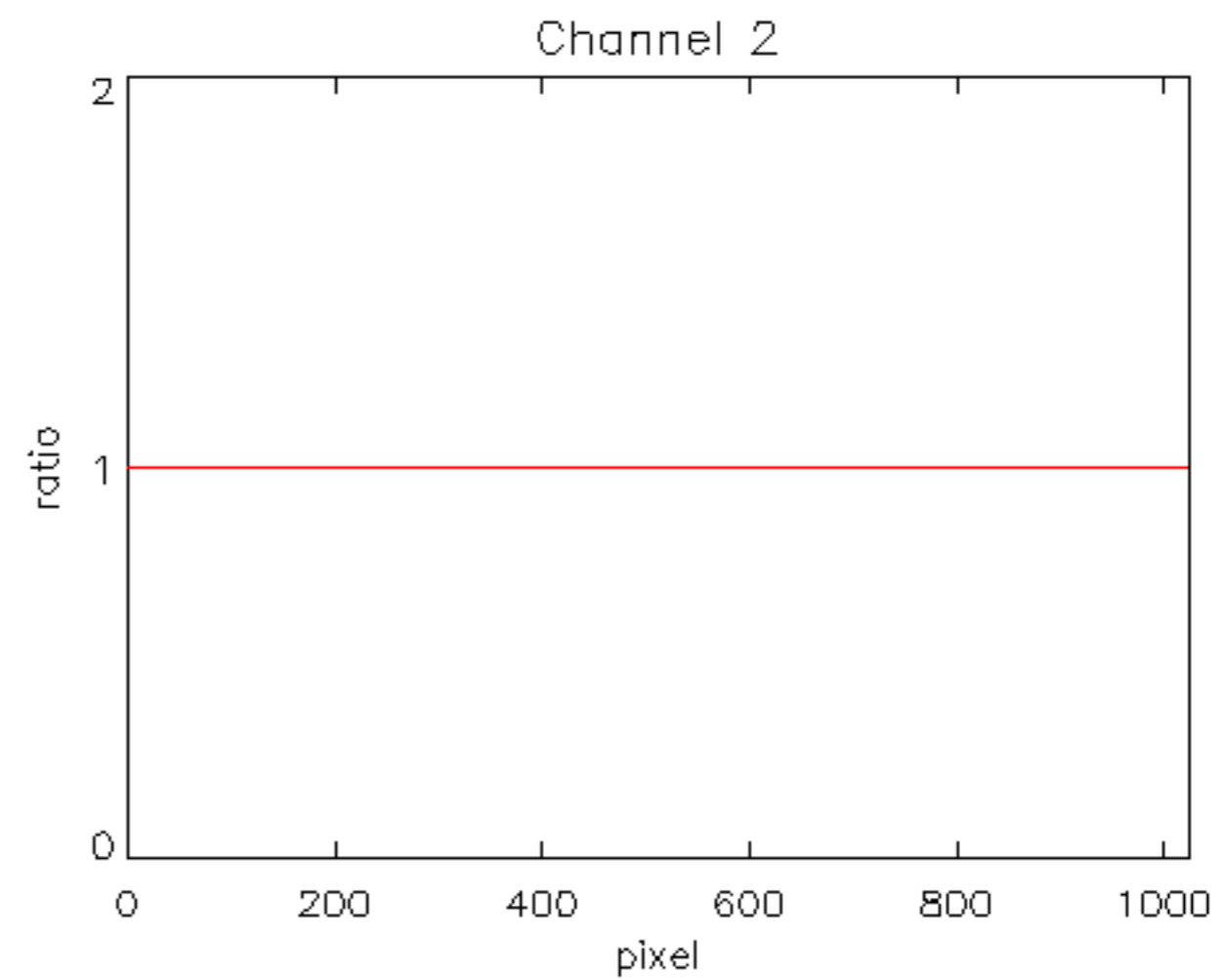
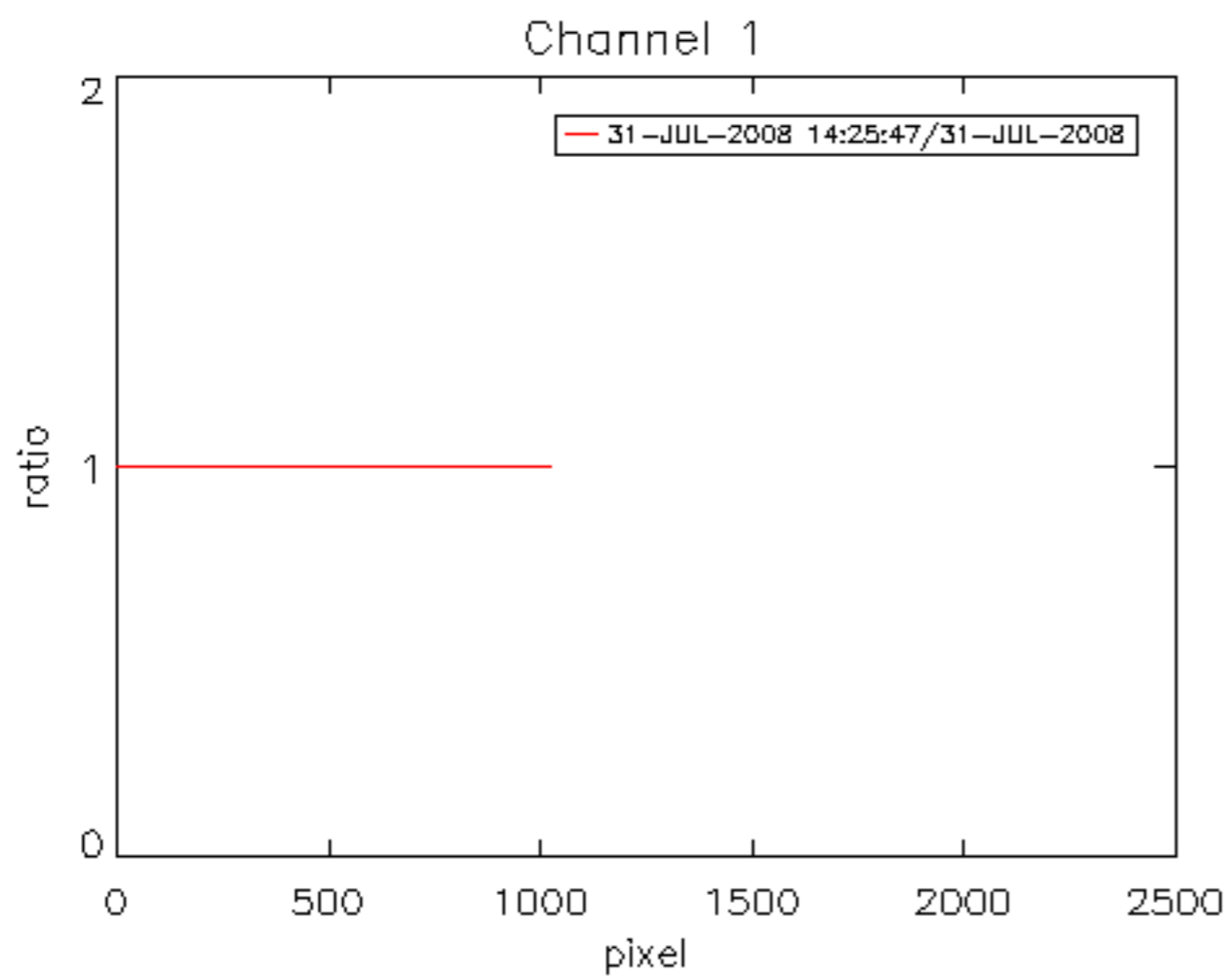


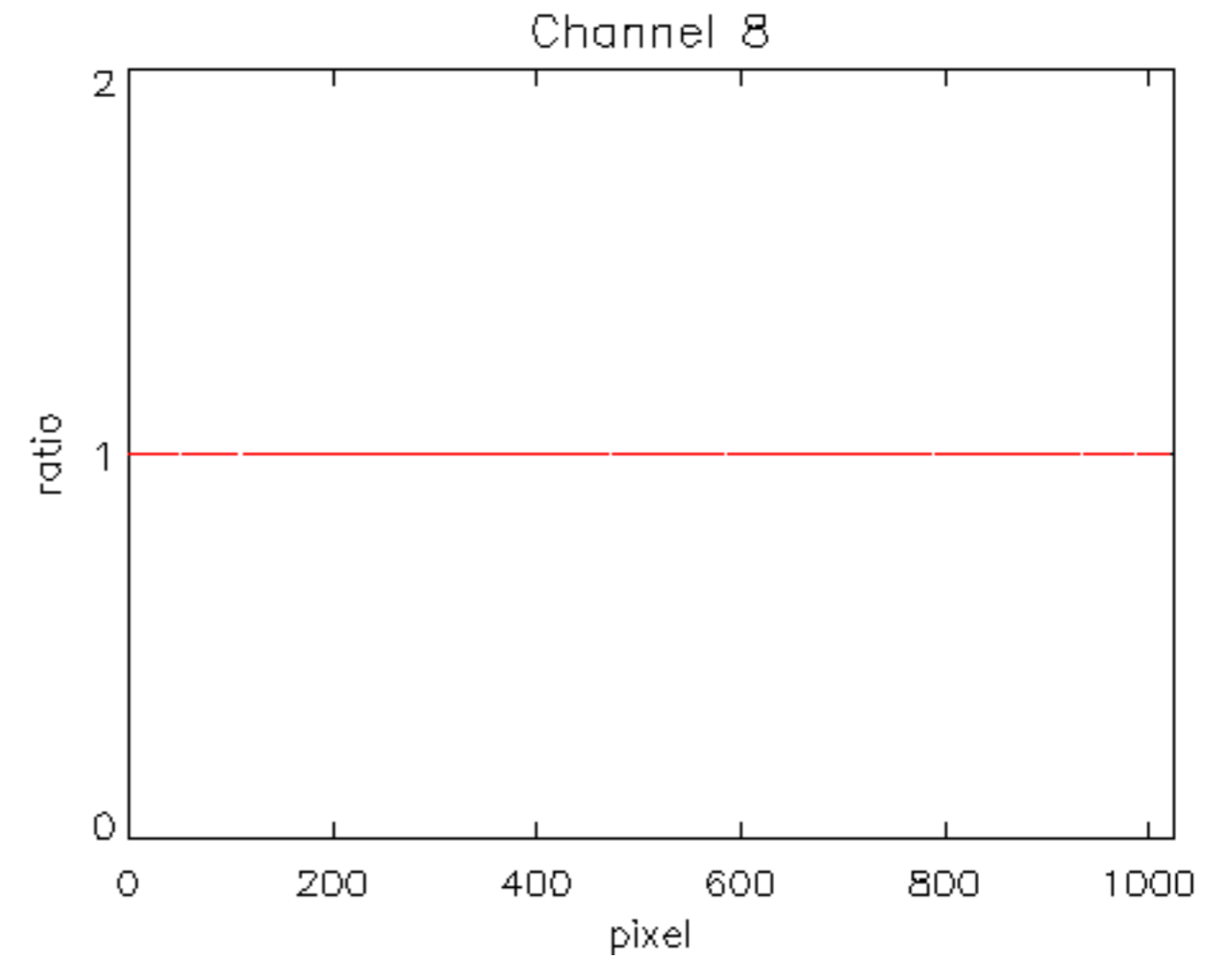
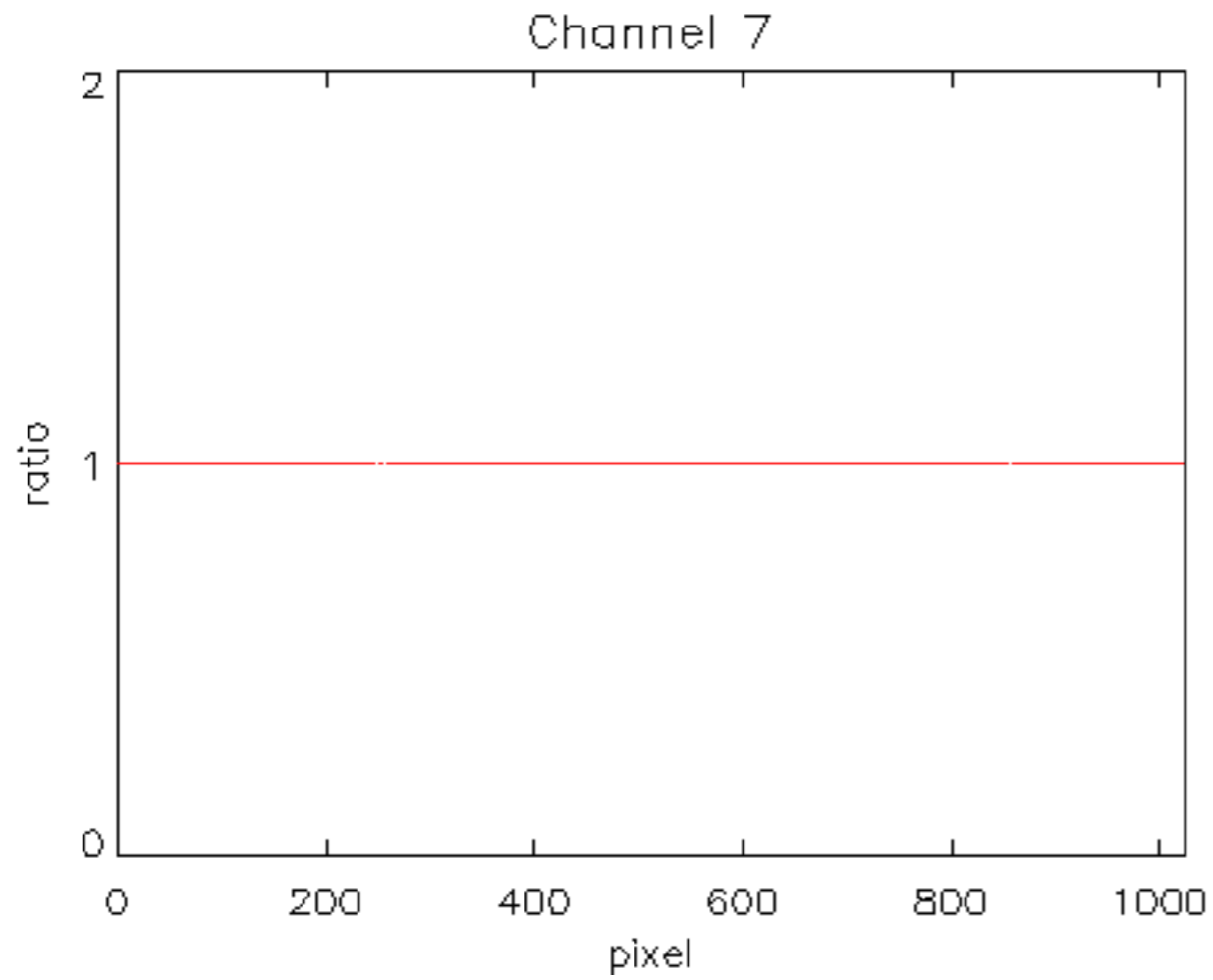
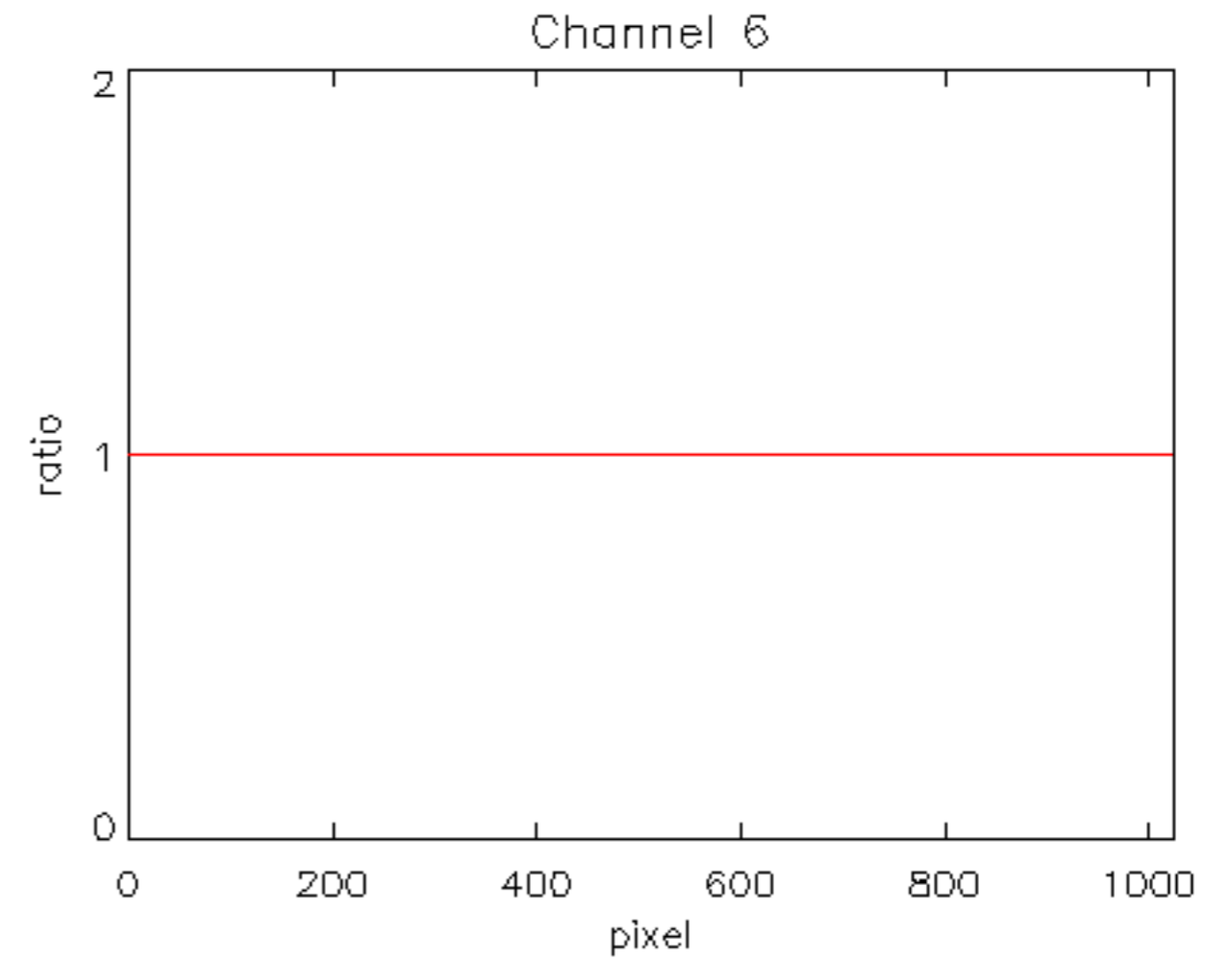
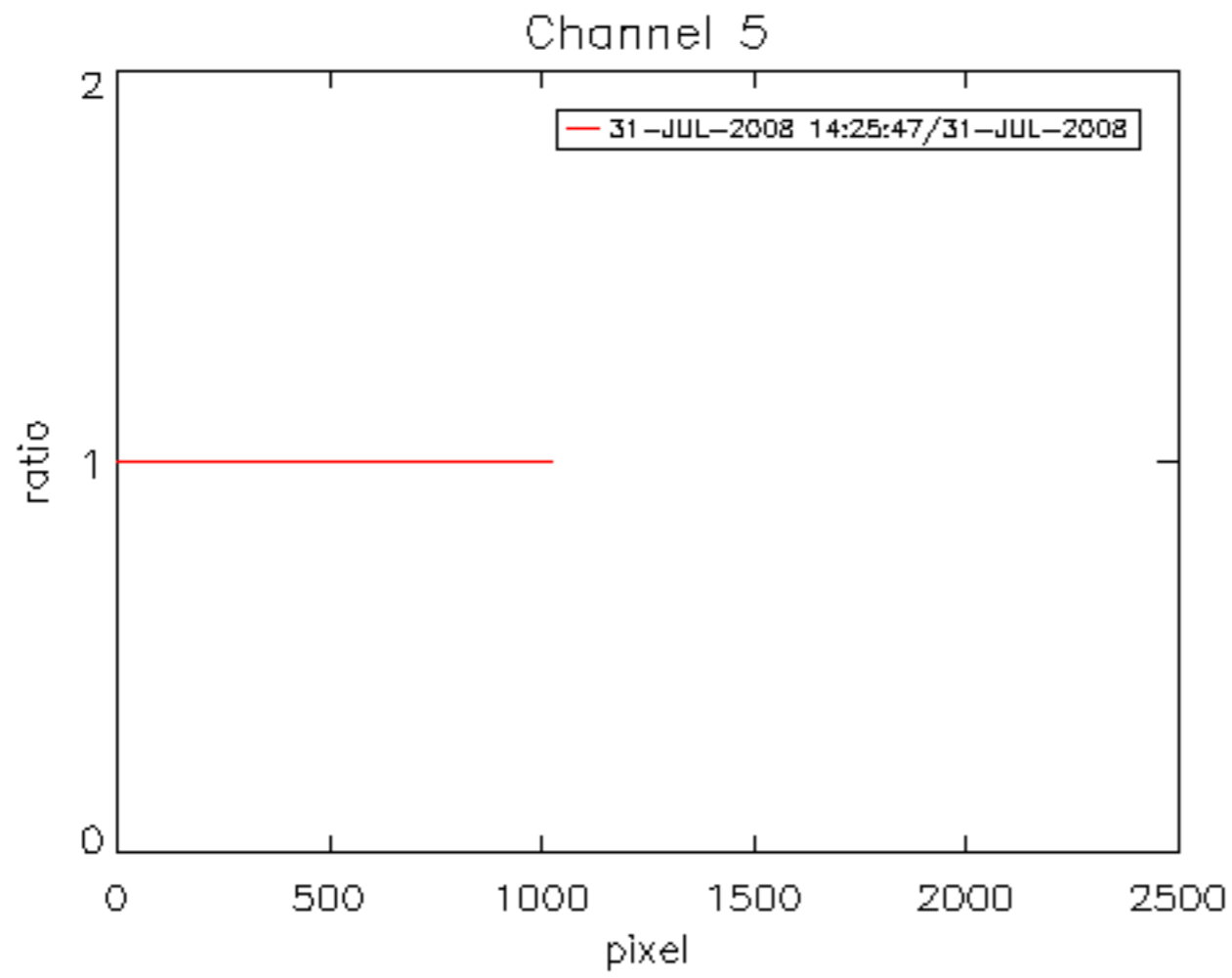
sciamachy_daily_report_level1_SCIA_7_04_U_20110921_28.PNG

1.4 DMOP execution monitoring

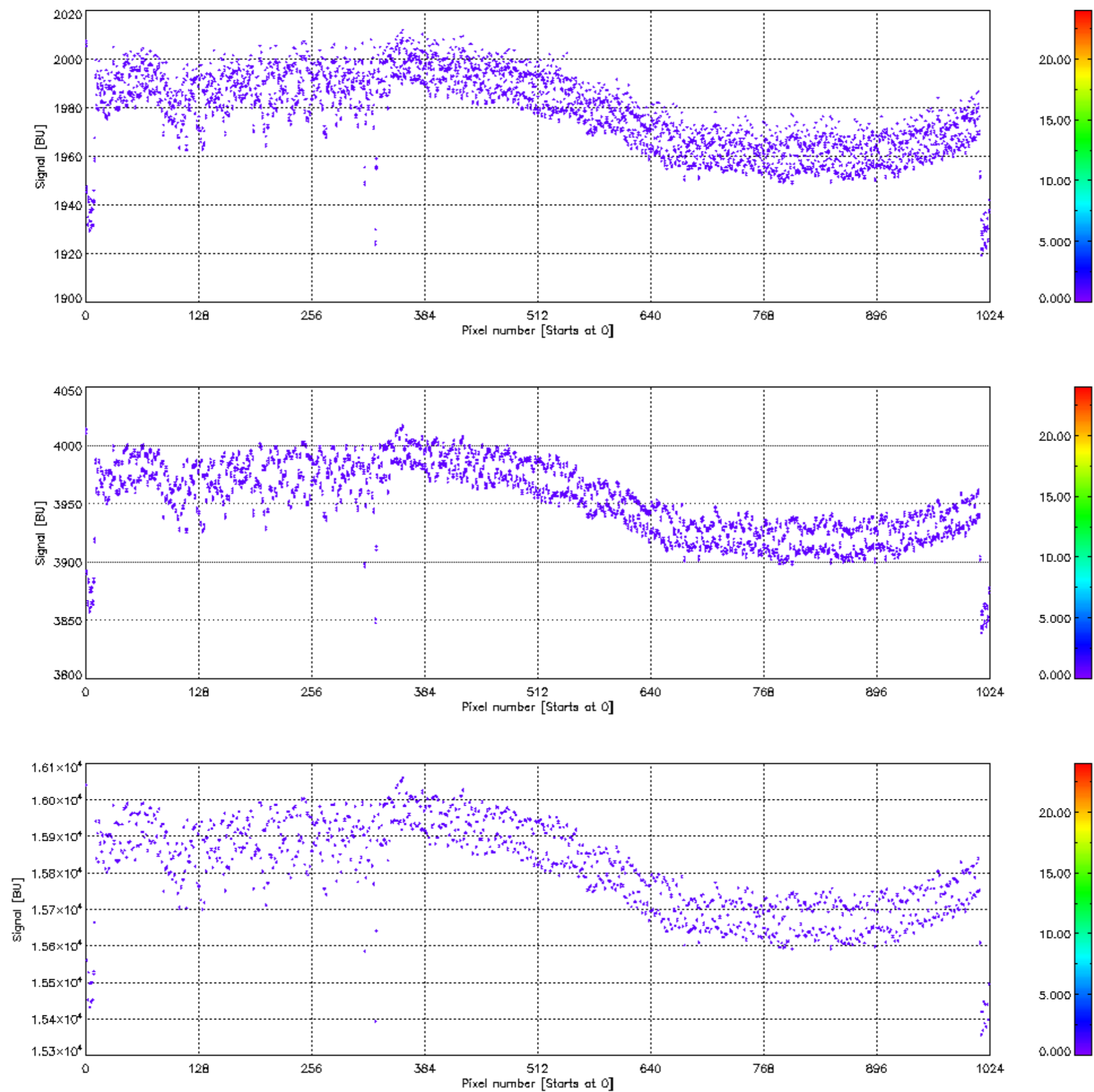
This section gives an analysis of the DMOP execution. The execution is monitored by assigning various activities to timeline sequences found in the DMOP file, and by checking where "NEW" datasets are available in SCI_NL__1P products.

(No DMOP data available for this processing scope)

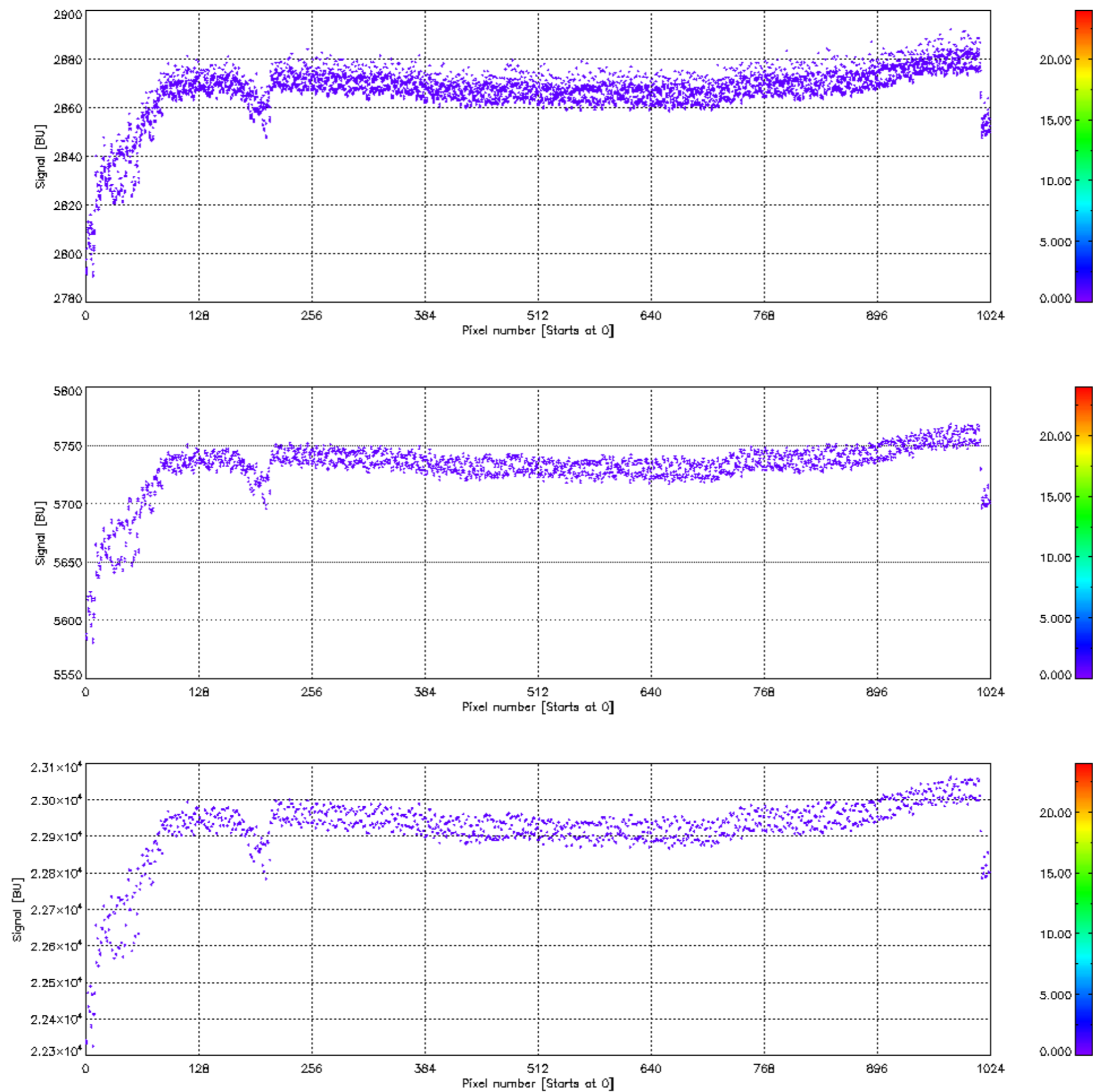




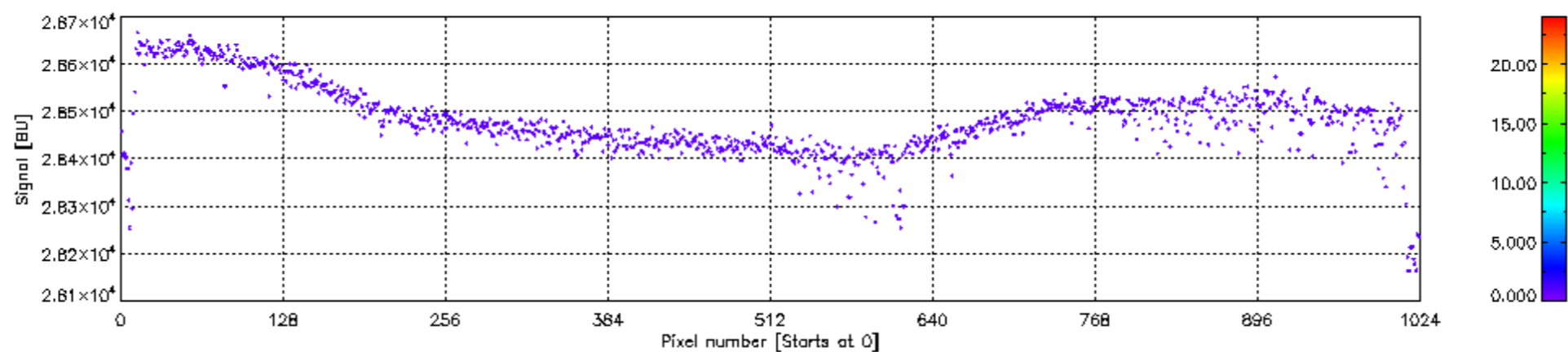
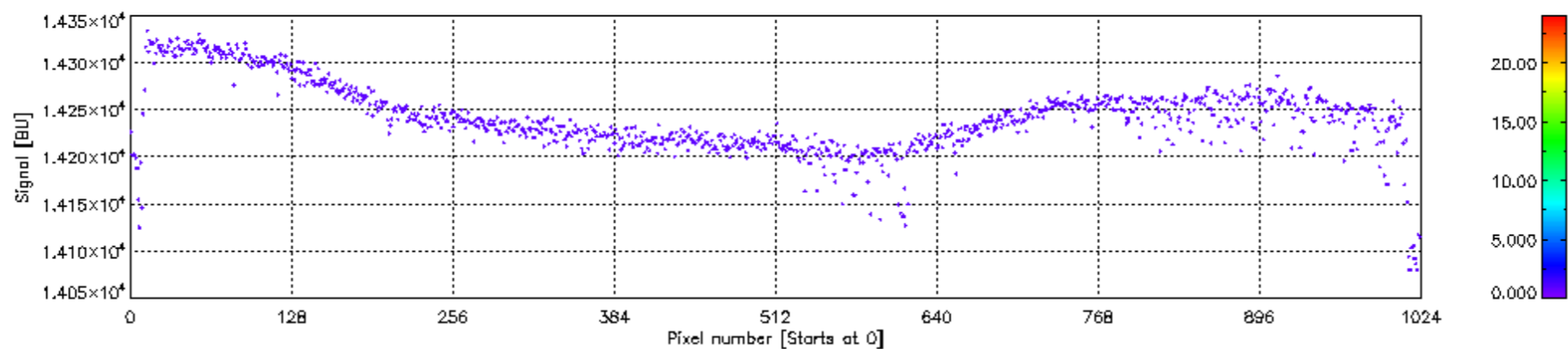
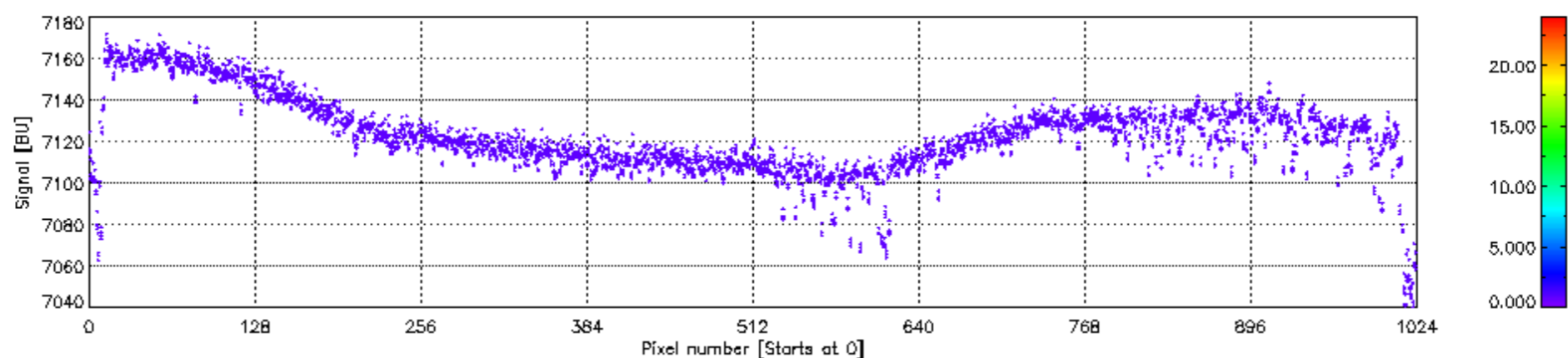
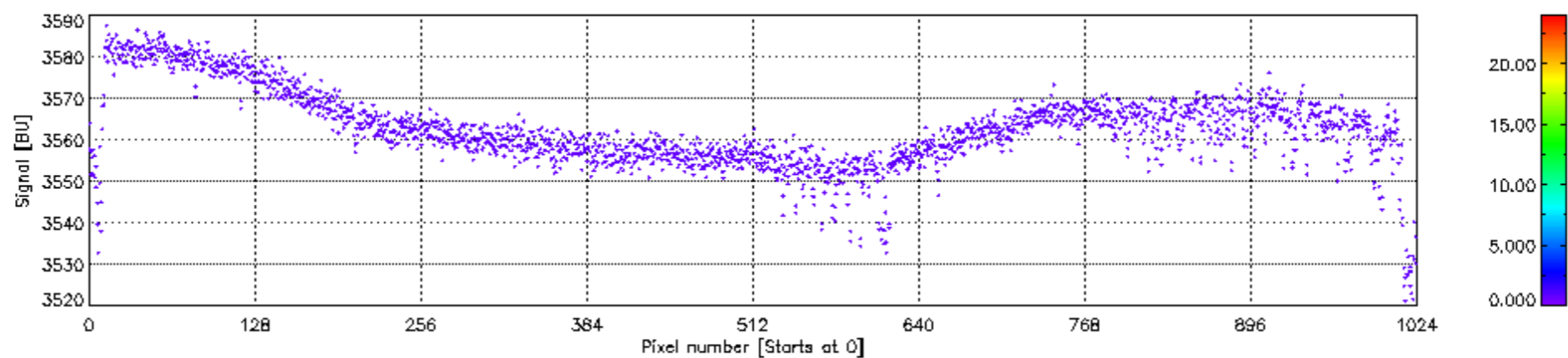
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 1 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



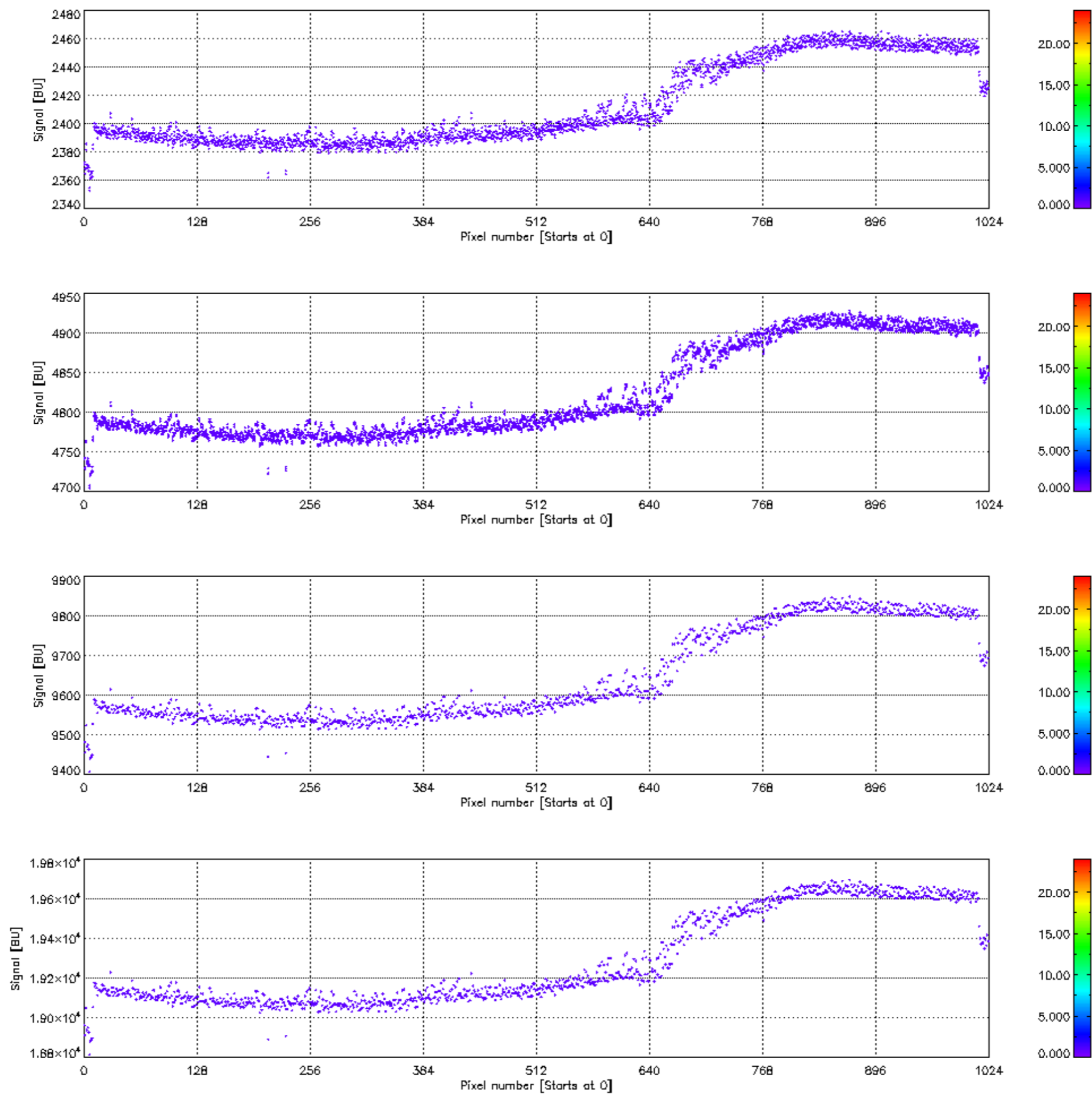
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 2 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



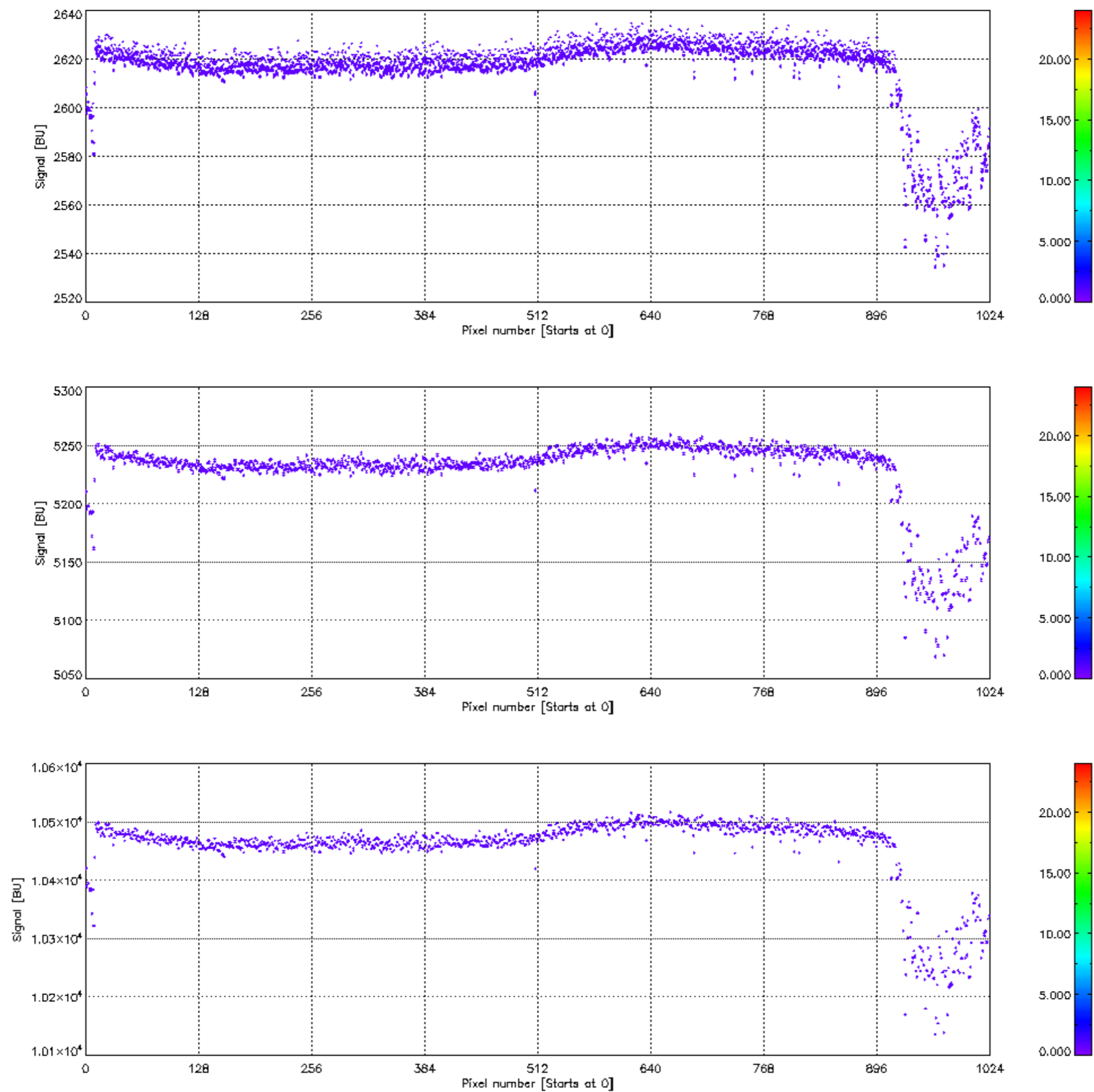
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 3 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



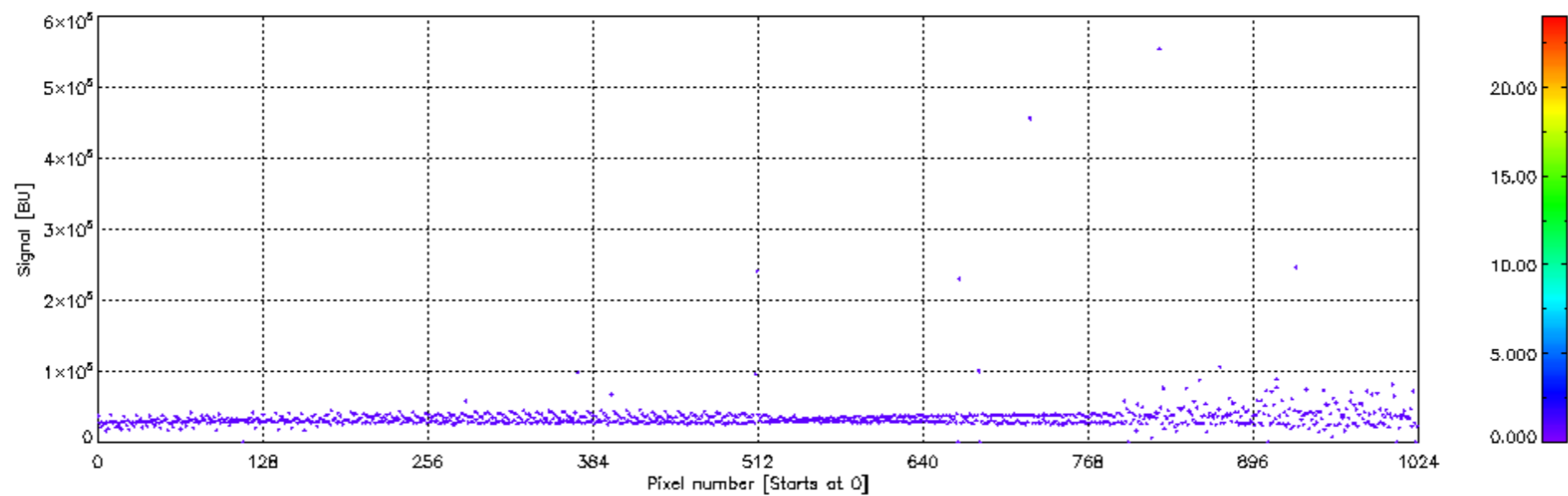
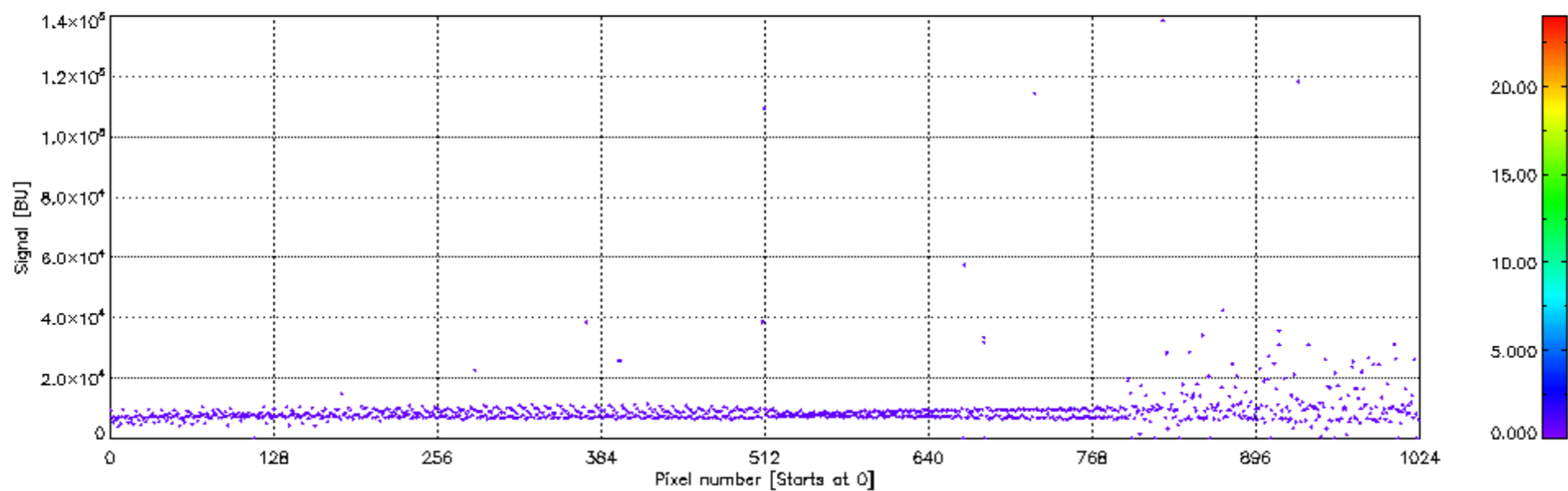
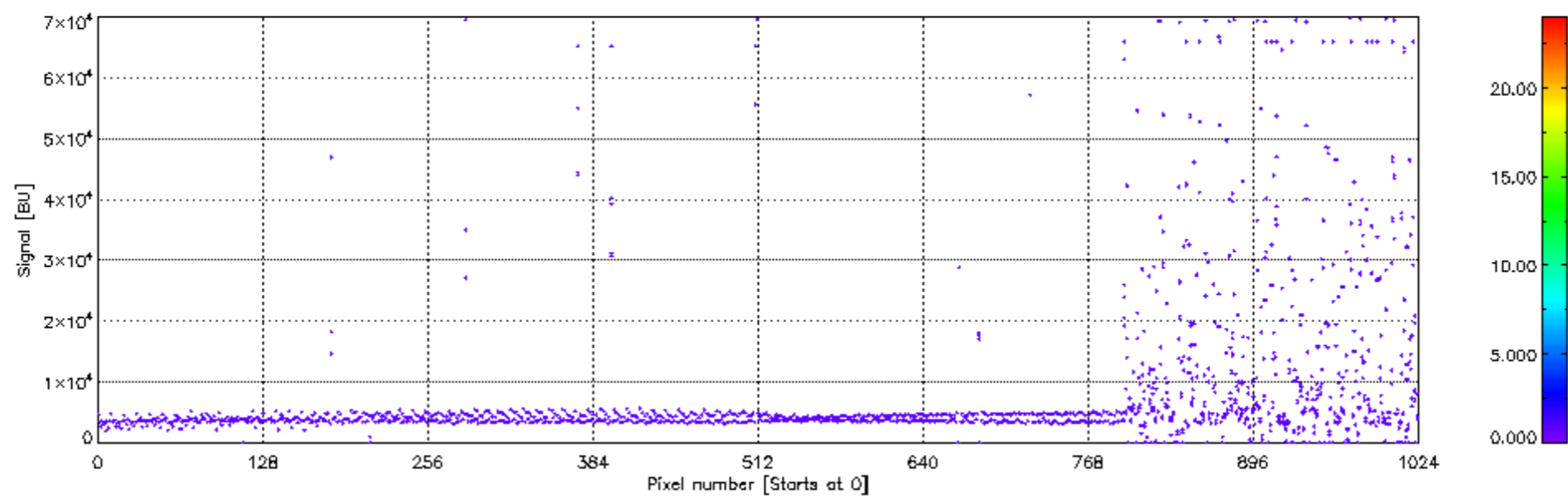
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 4 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



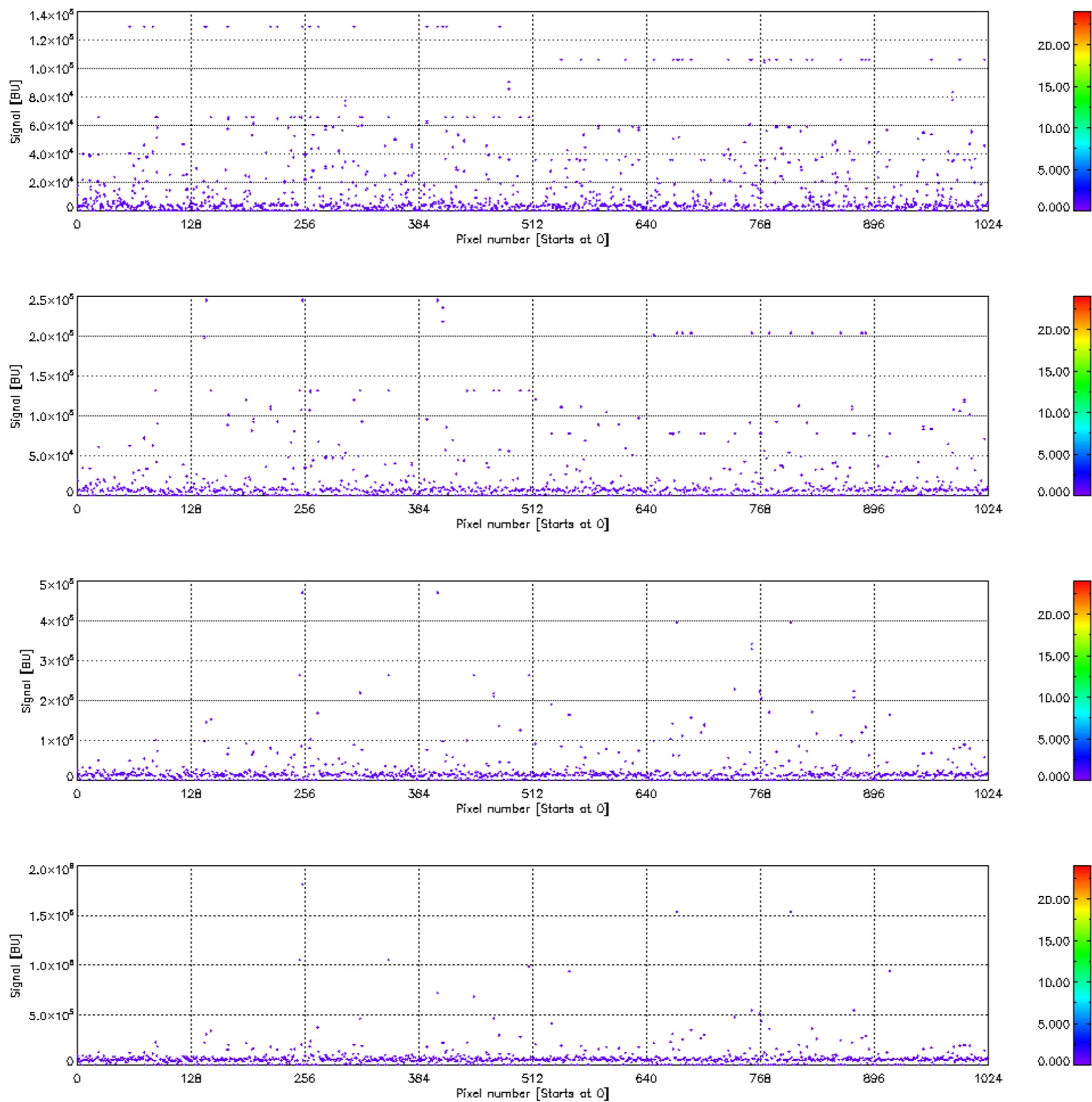
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 5 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



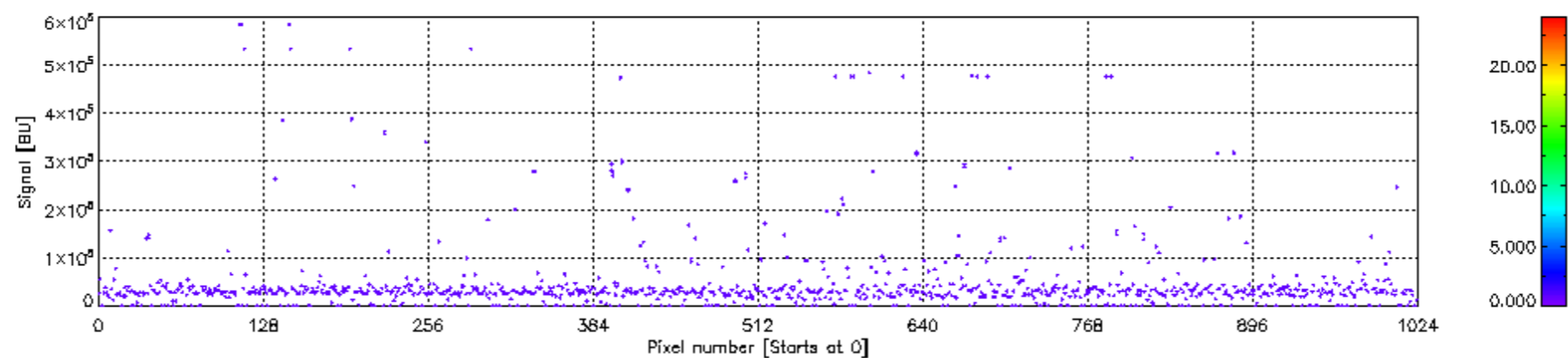
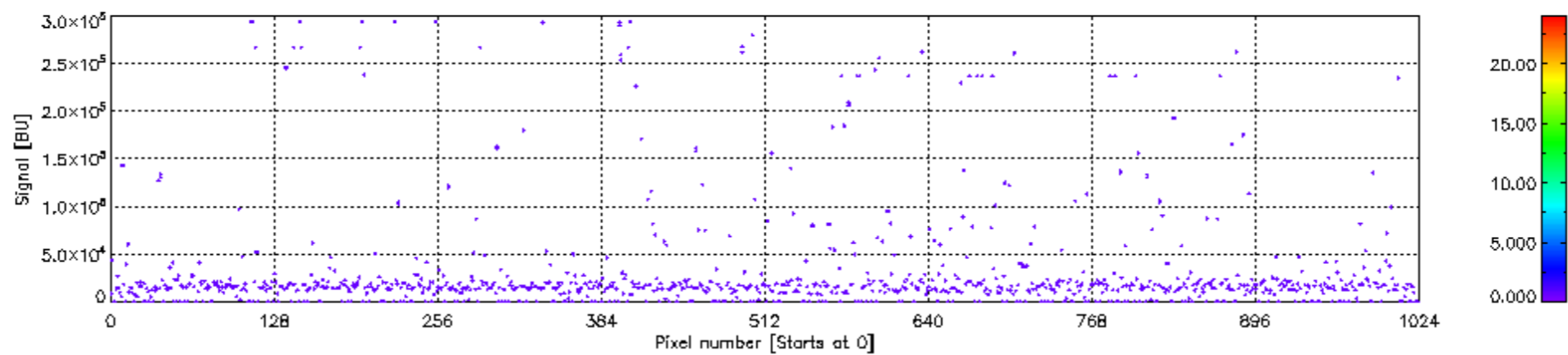
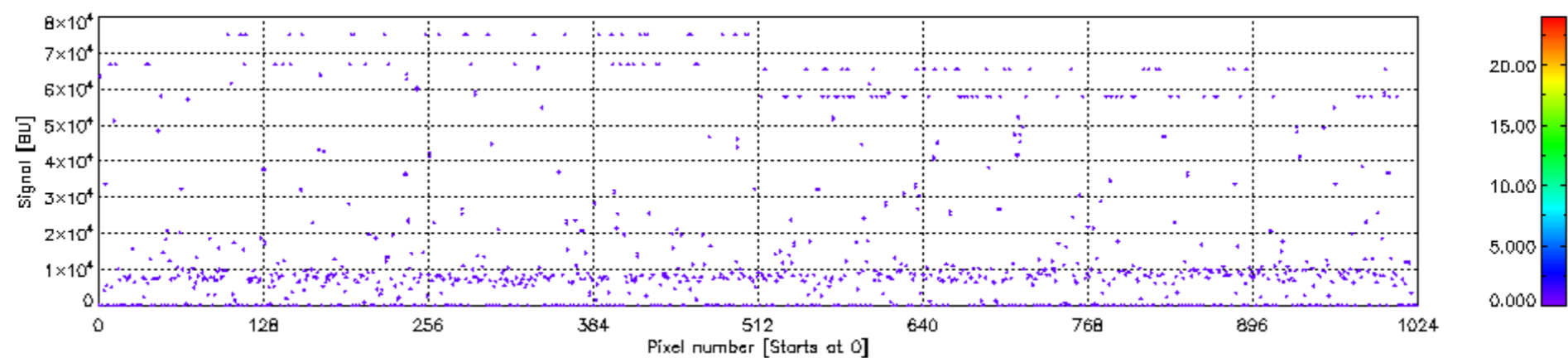
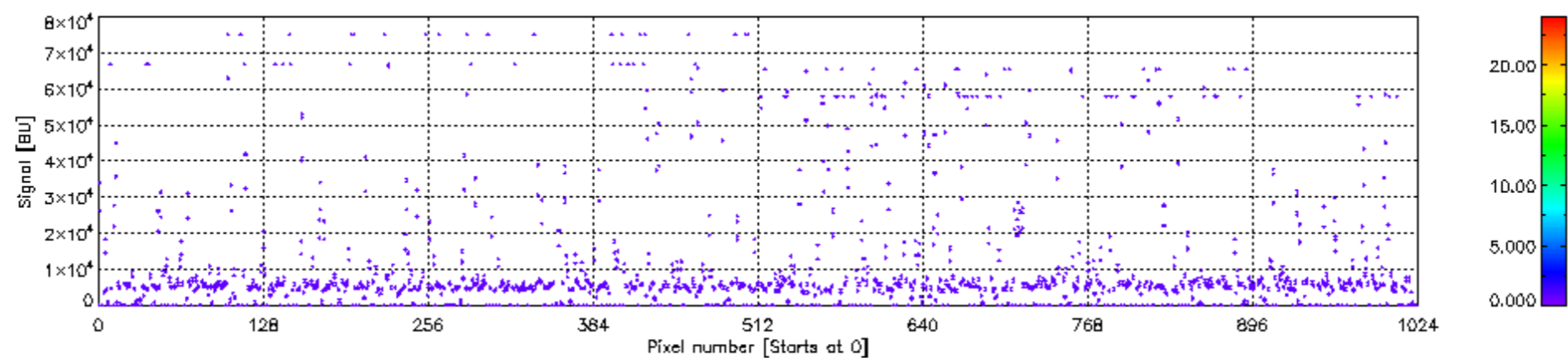
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 6 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00

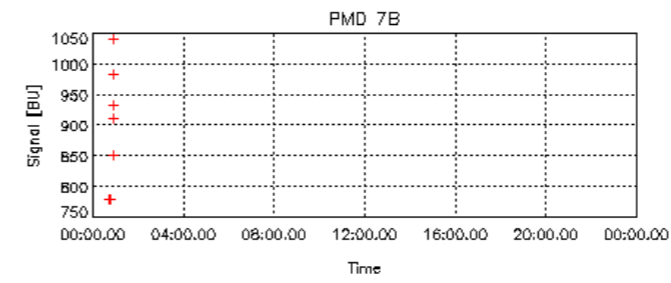
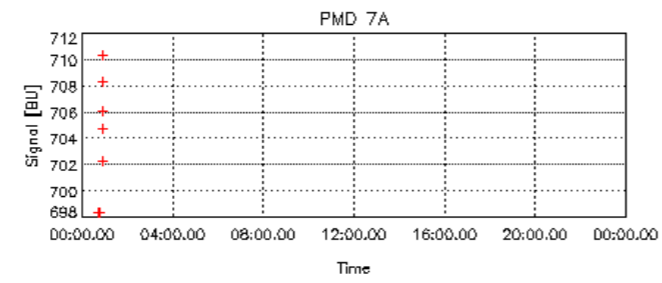
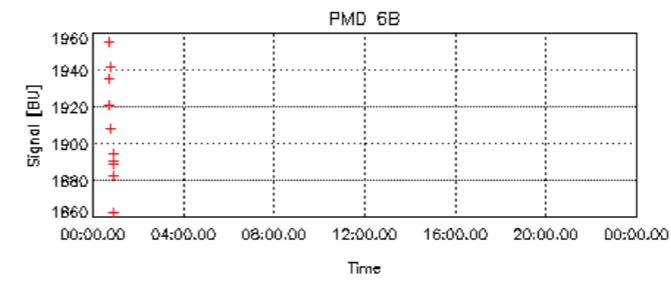
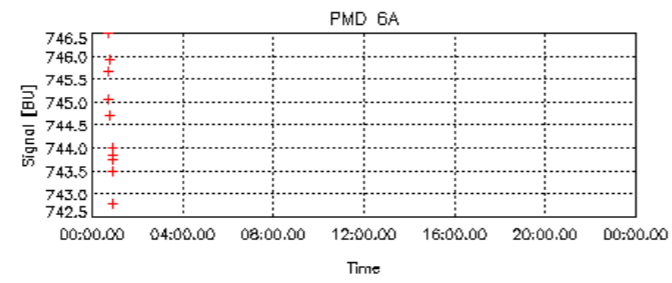
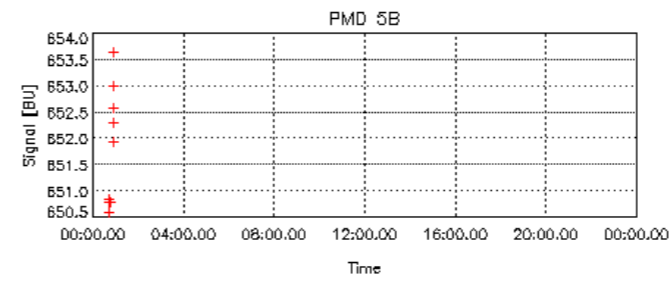
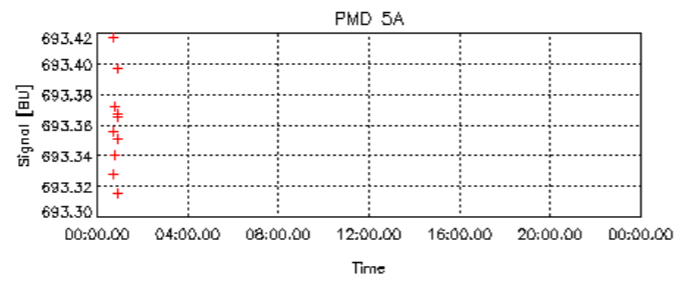
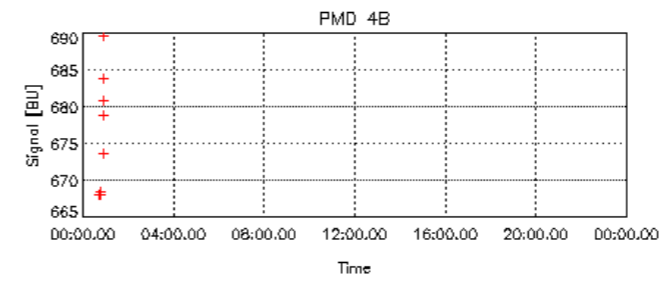
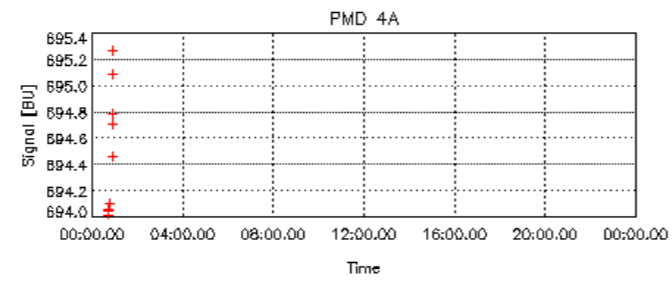
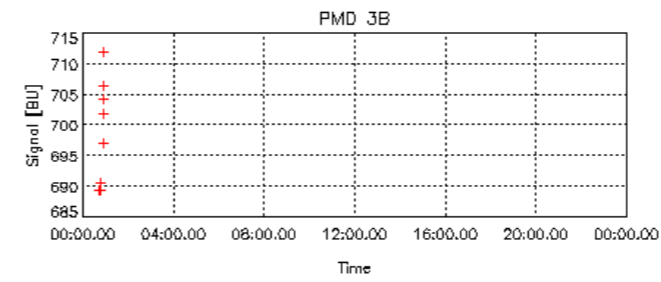
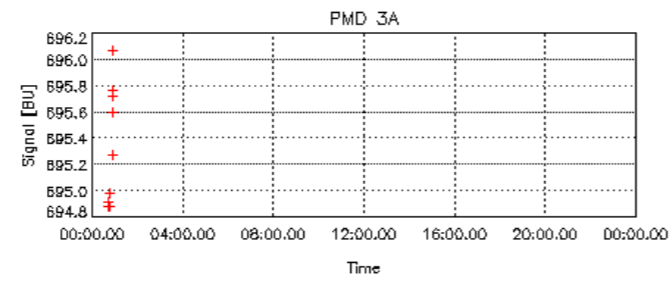
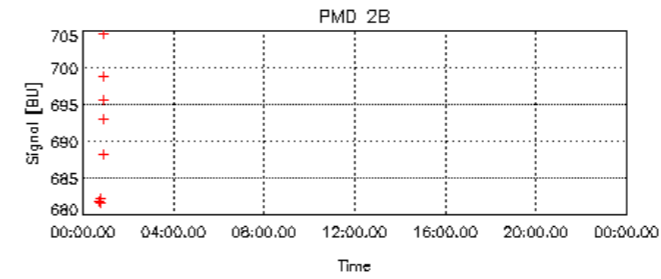
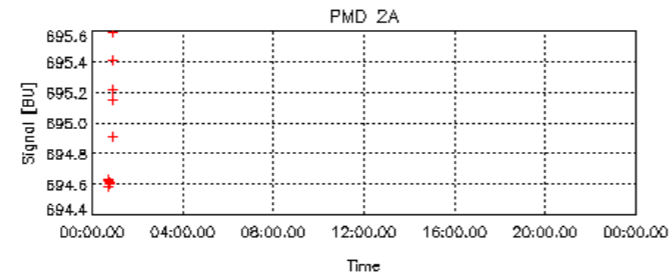
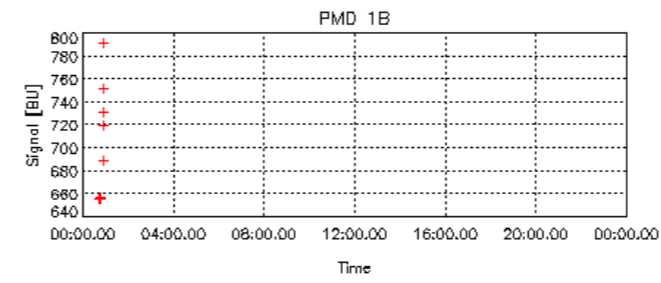
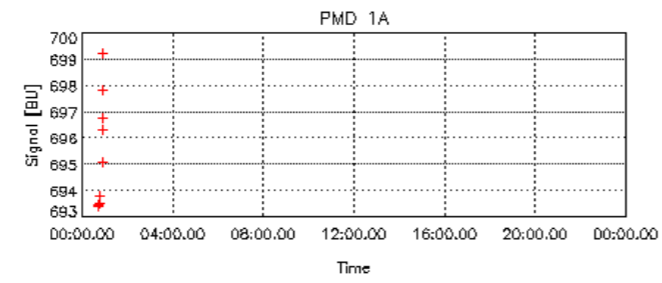


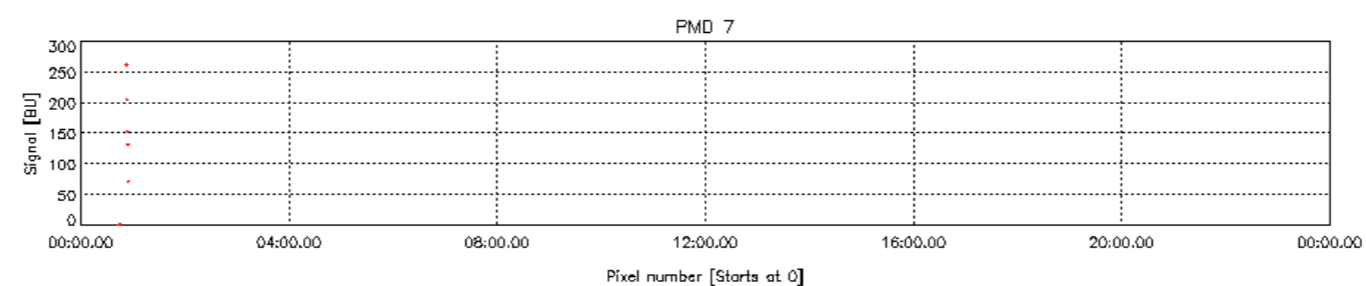
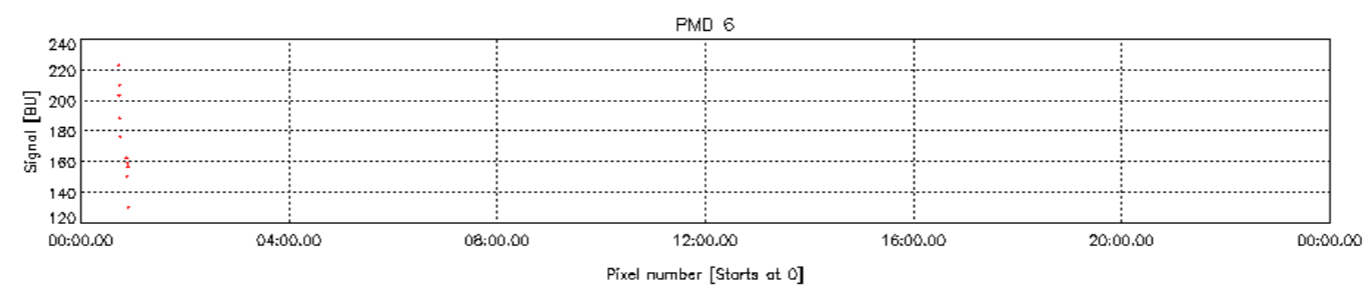
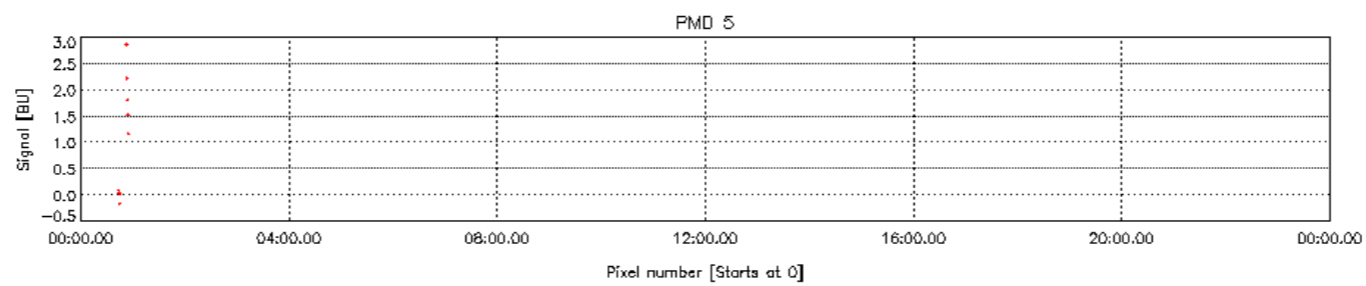
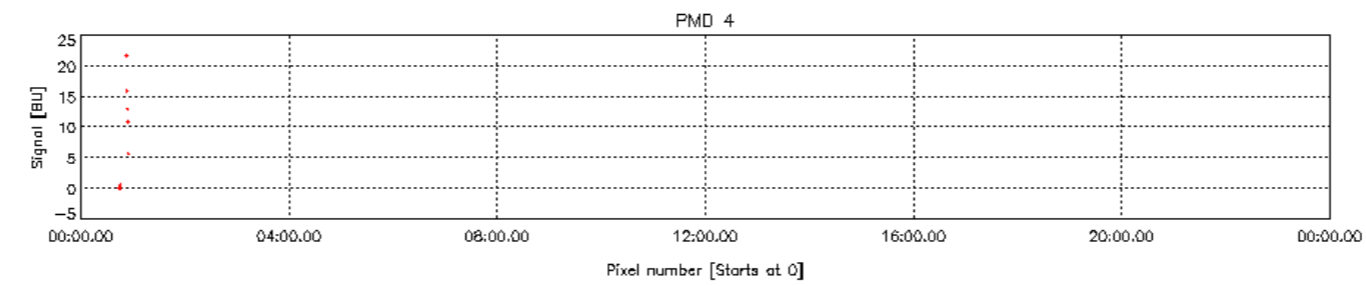
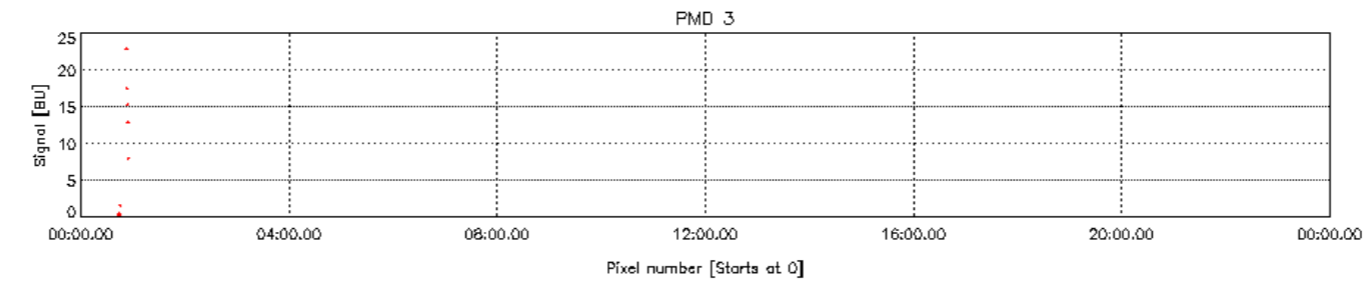
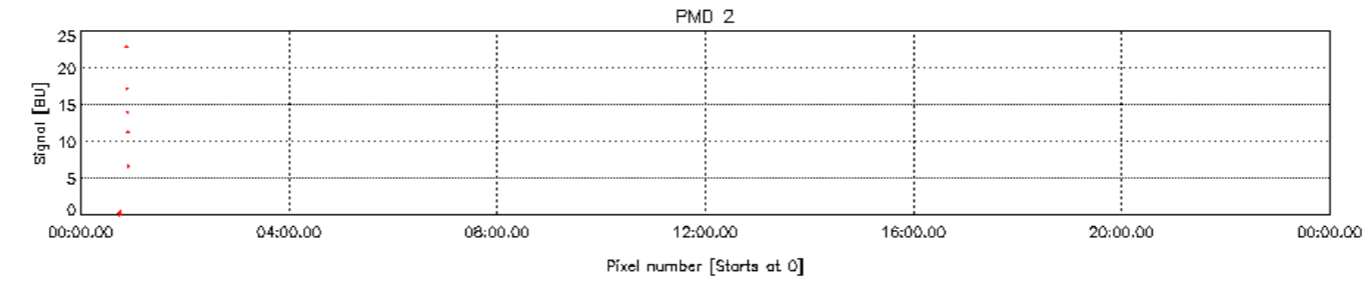
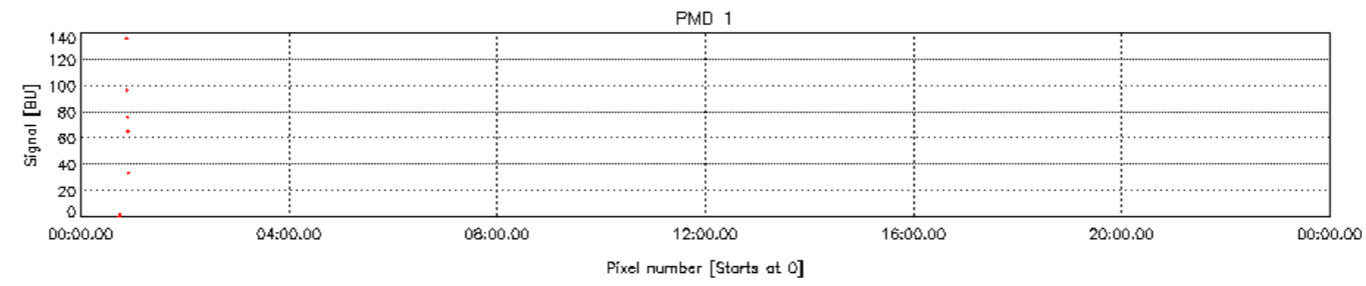
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 7 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



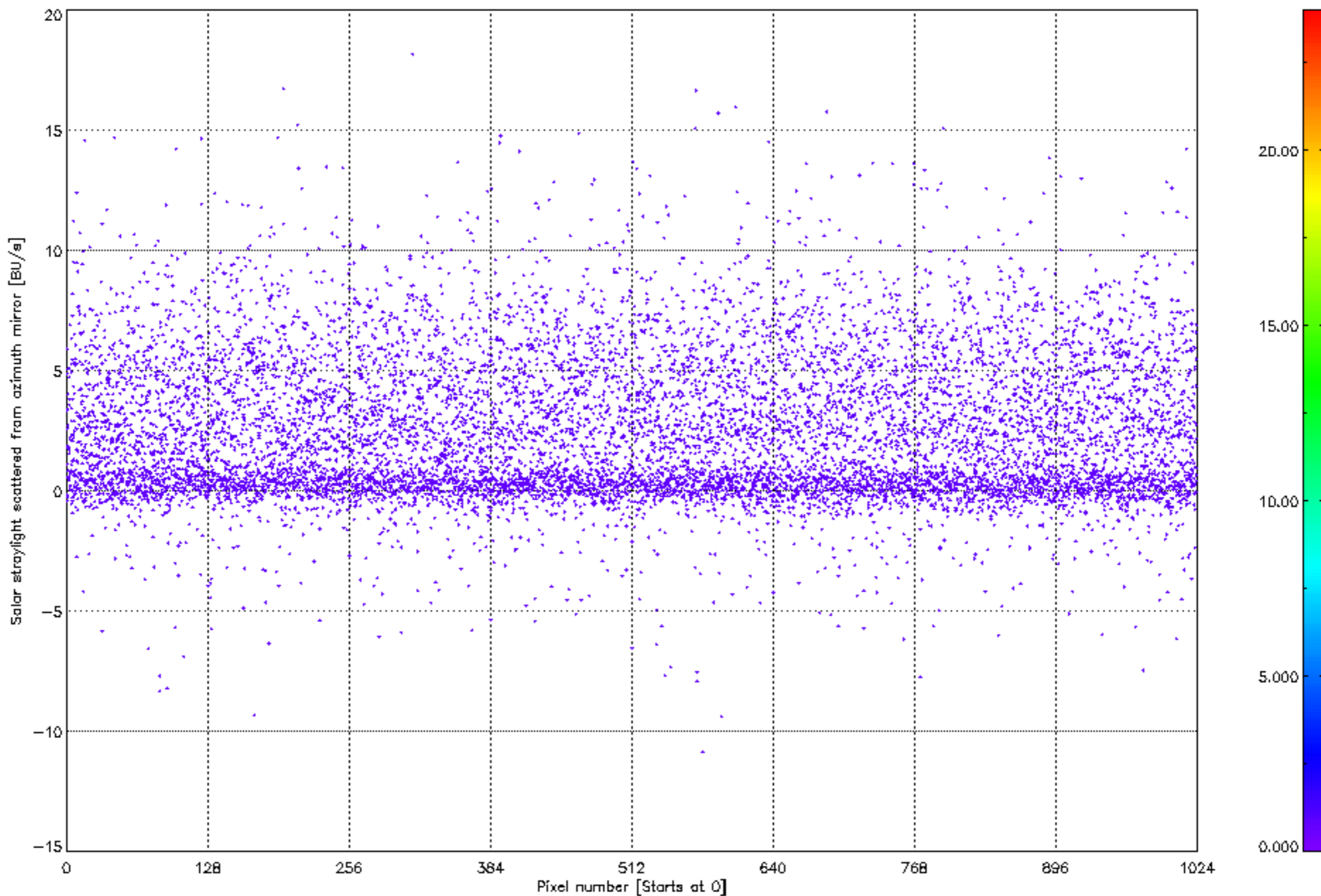
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 8 on 21SEP2011.
 The plots show different value ranges of the dark measurements.
 The colours indicate the time in hours since 21SEP2011 00:00:00



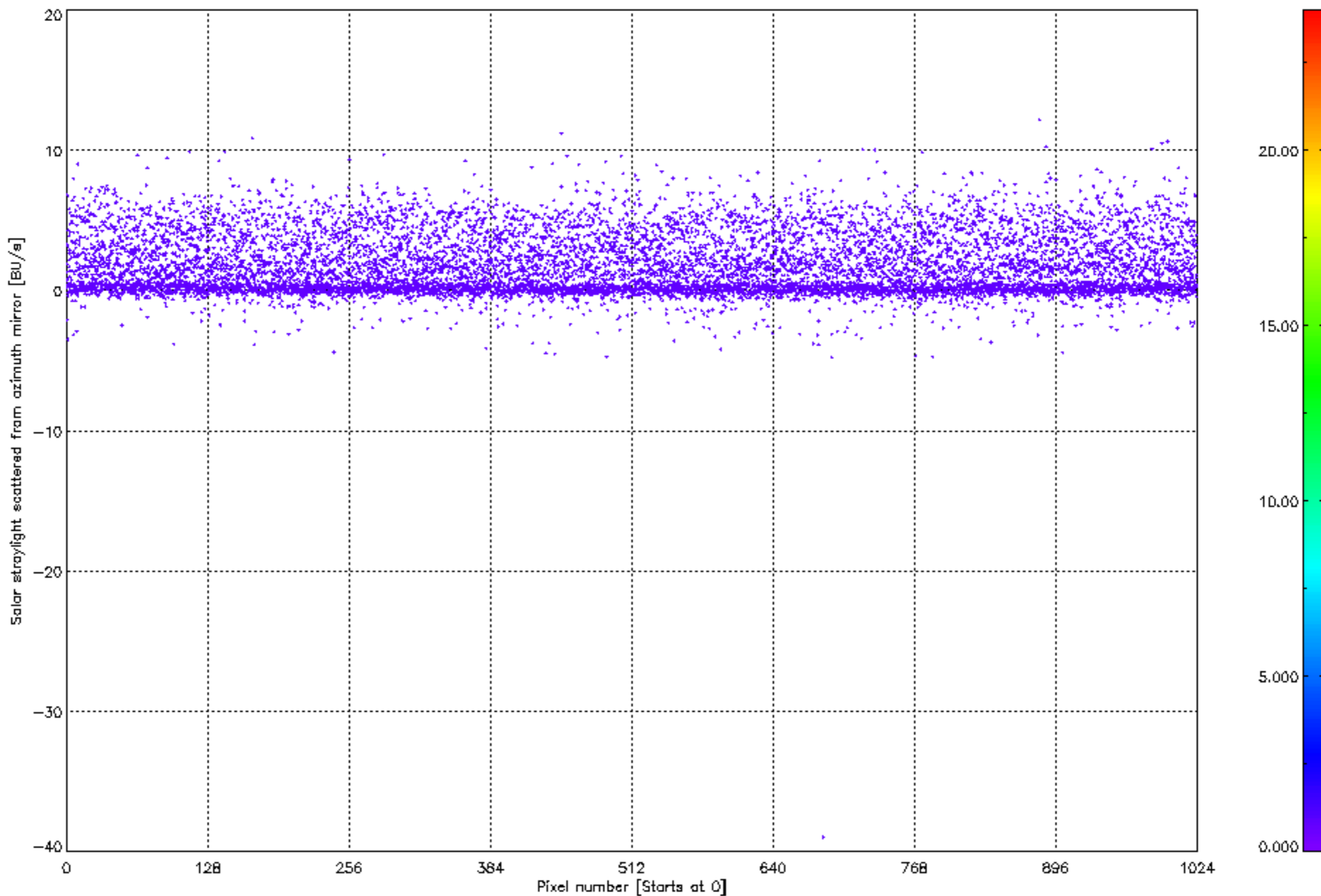




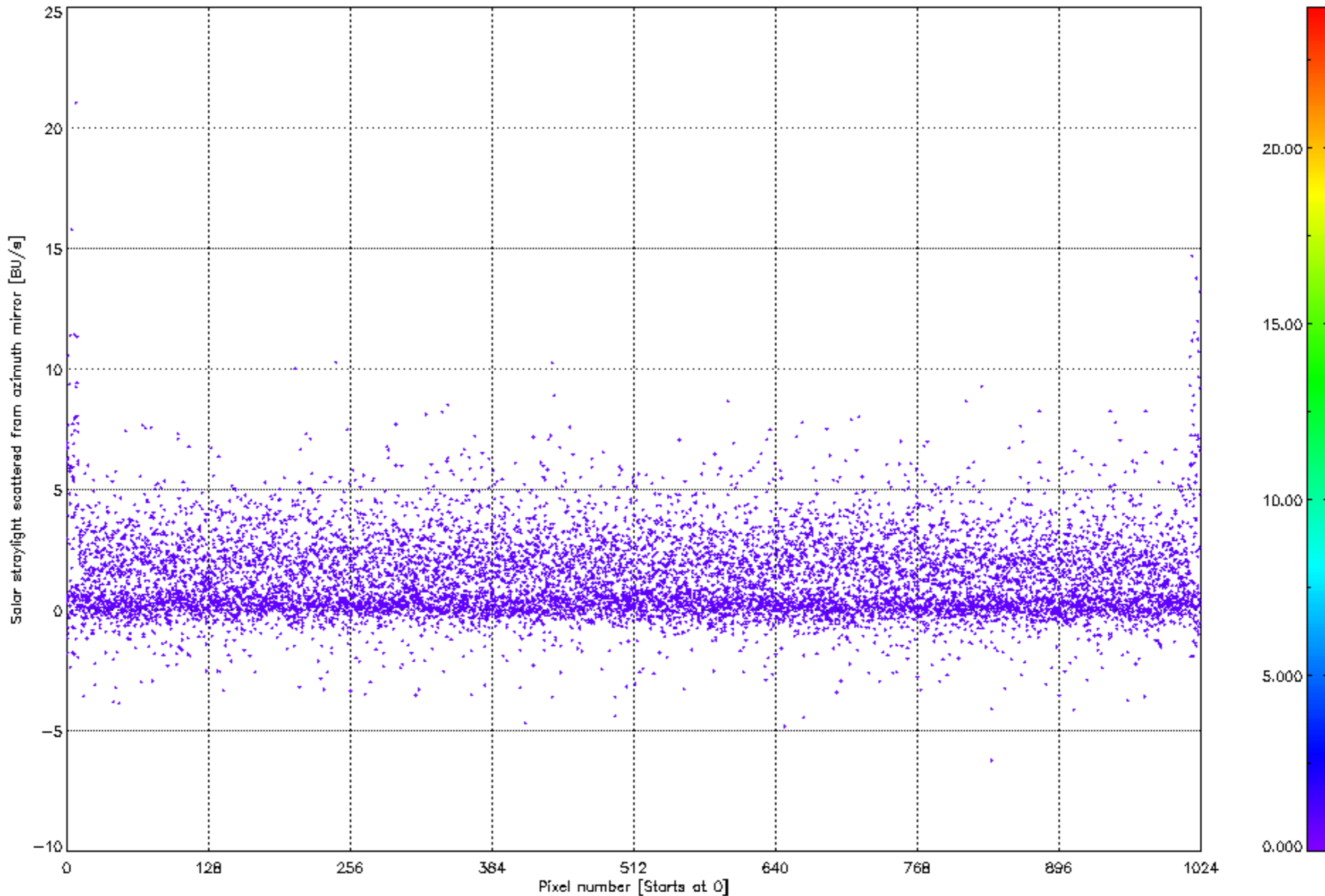
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 1
 Colours indicate the time in hours since 21SEP2011 00:00:00



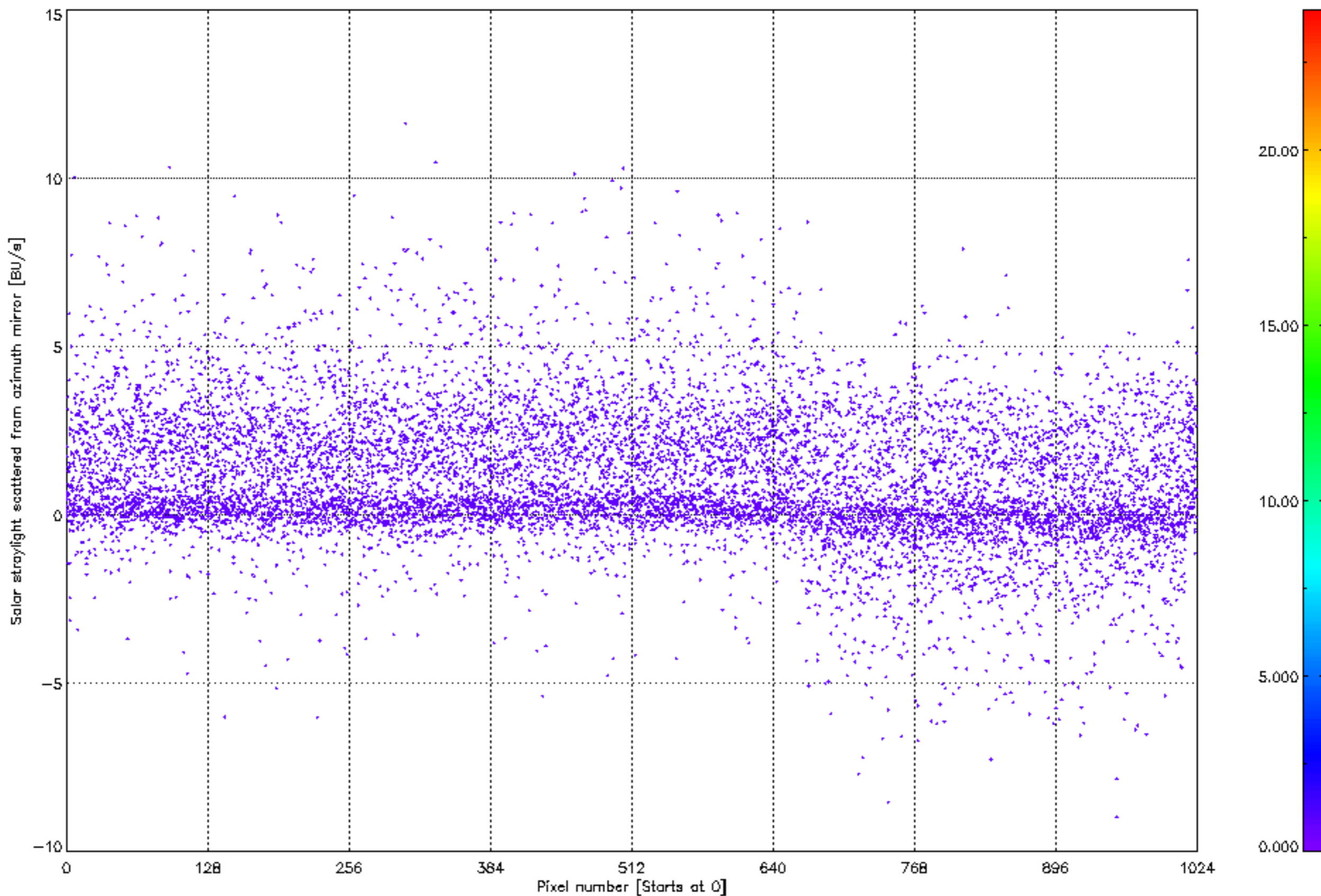
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 2
 Colours indicate the time in hours since 21SEP2011 00:00:00



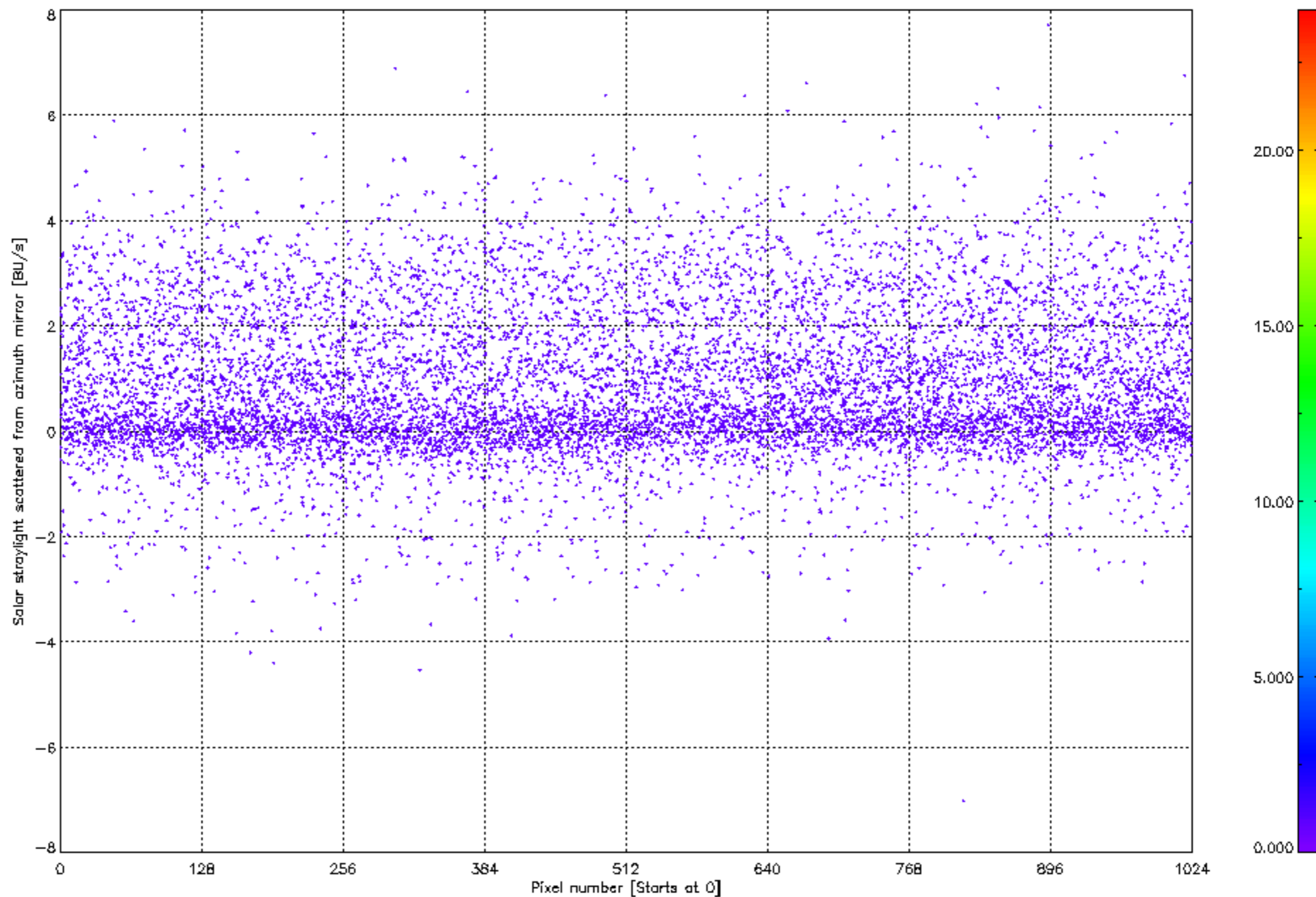
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 3
 Colours indicate the time in hours since 21SEP2011 00:00:00



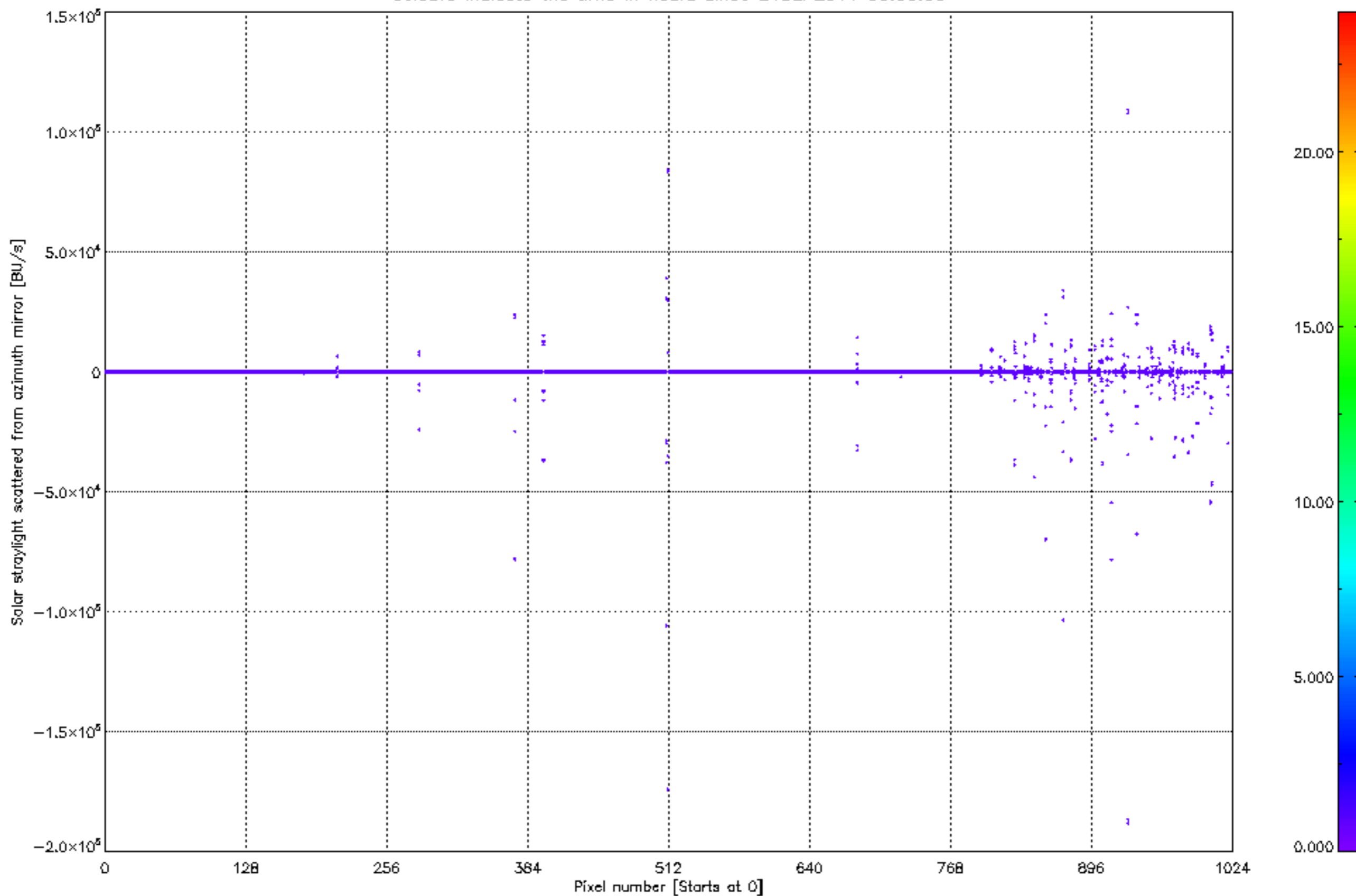
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 4
 Colours indicate the time in hours since 21SEP2011 00:00:00



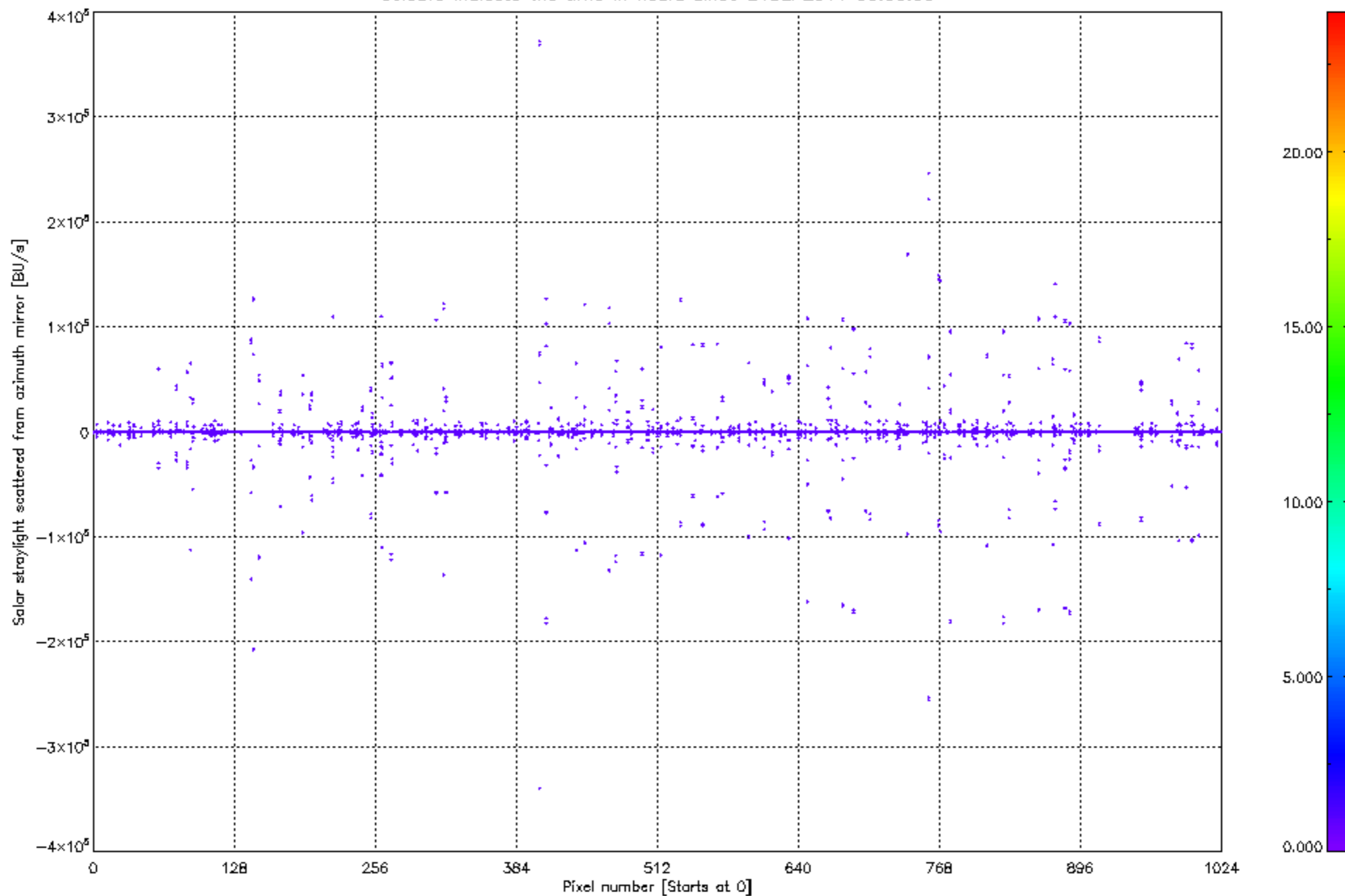
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 5
 Colours indicate the time in hours since 21SEP2011 00:00:00



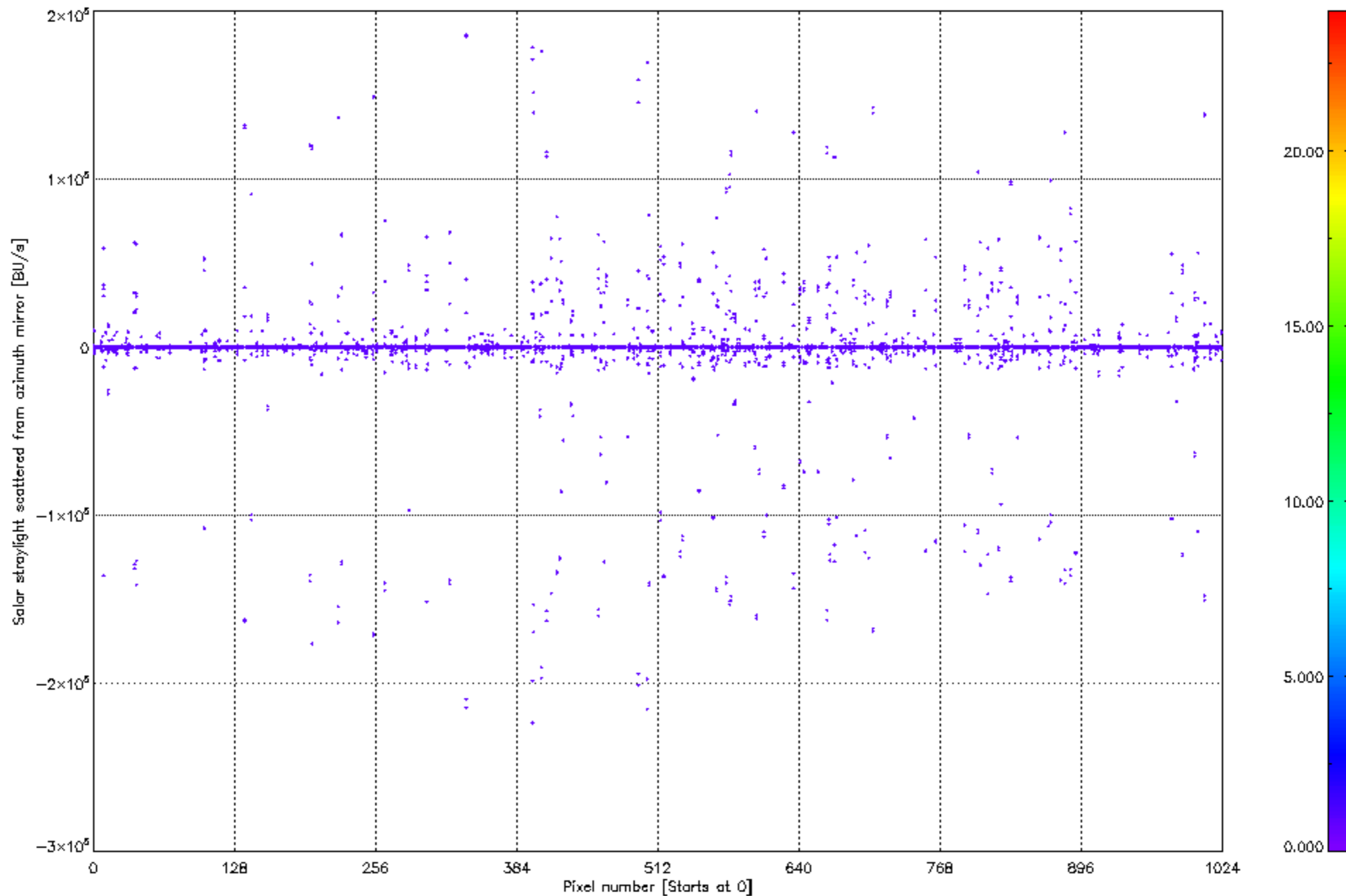
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 6
 Colours indicate the time in hours since 21SEP2011 00:00:00

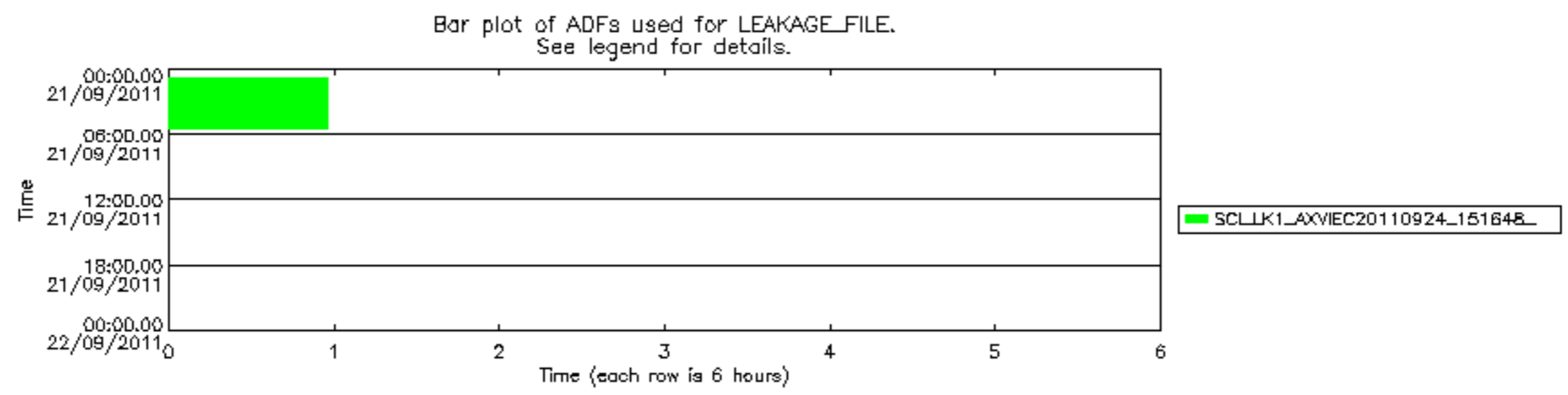


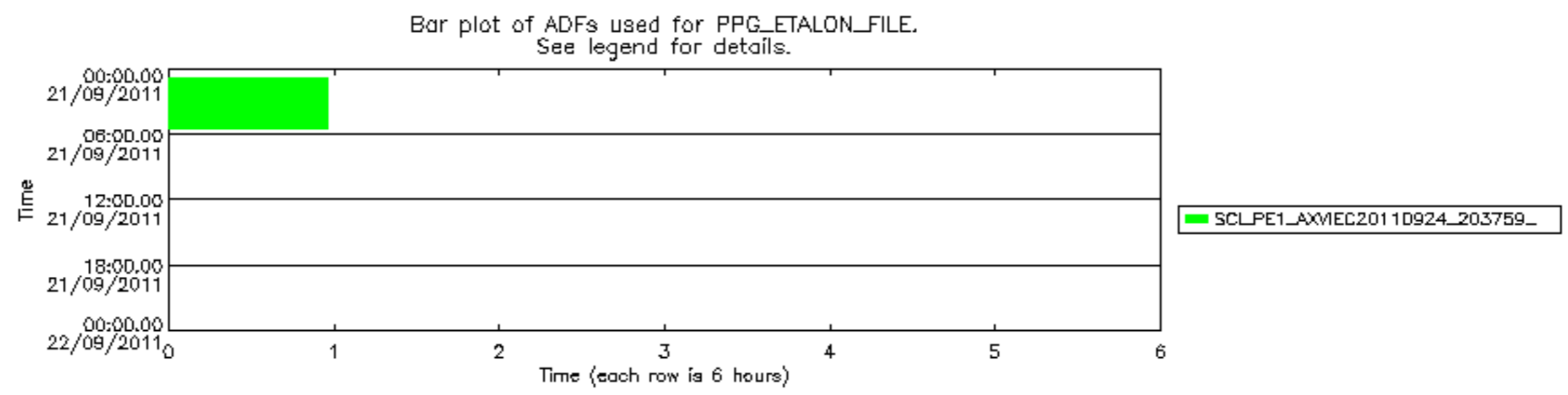
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 7
 Colours indicate the time in hours since 21SEP2011 00:00:00

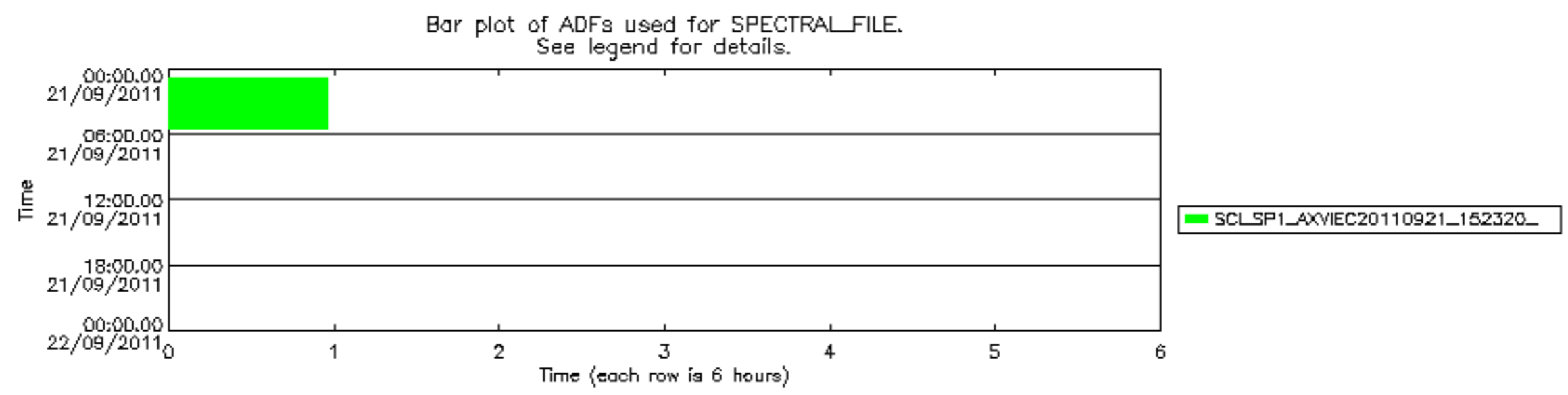


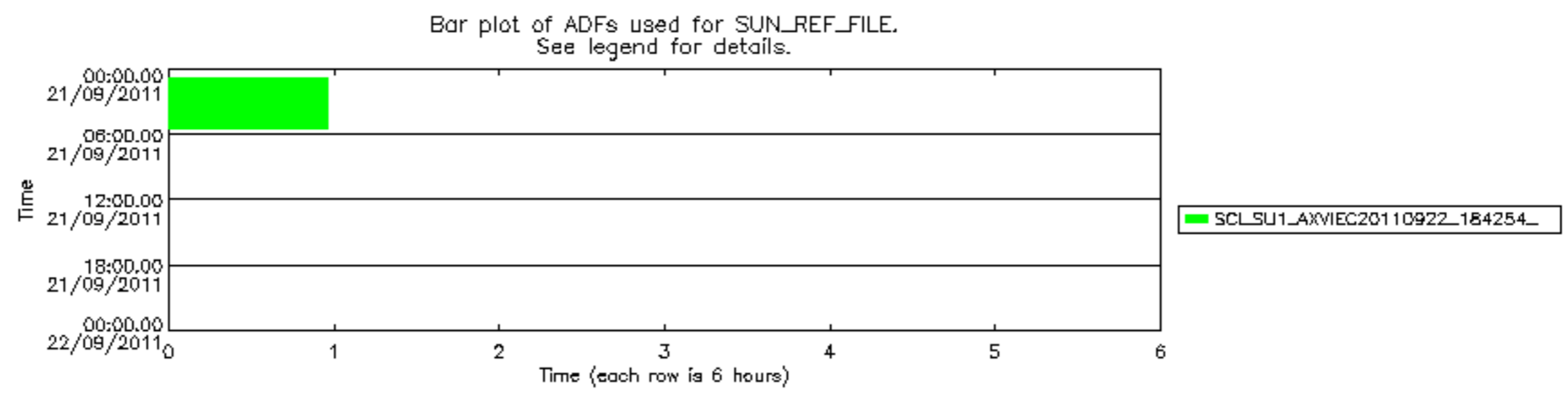
Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 8
 Colours indicate the time in hours since 21SEP2011 00:00:00

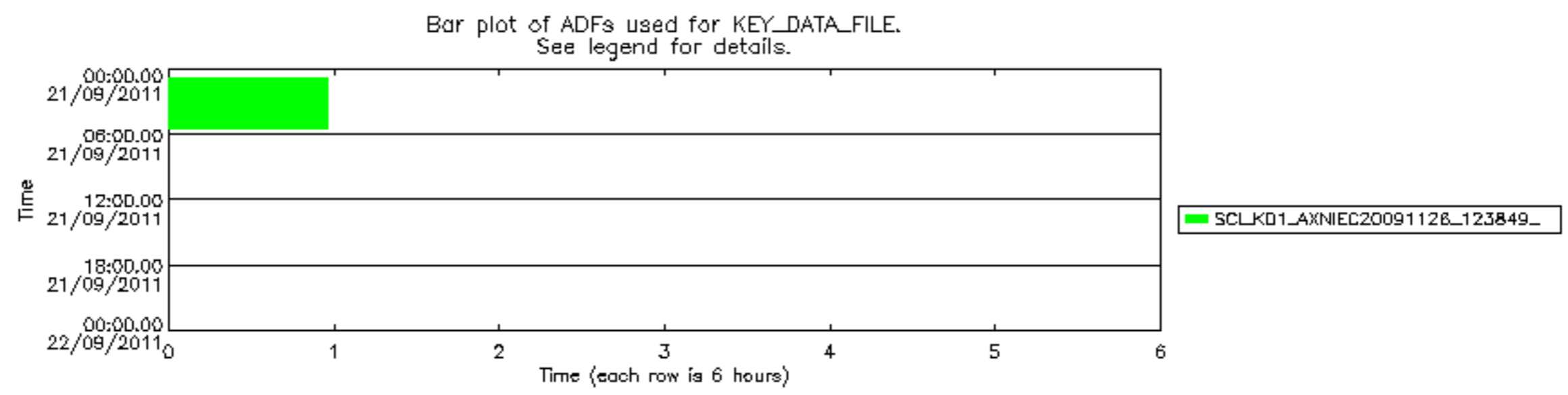


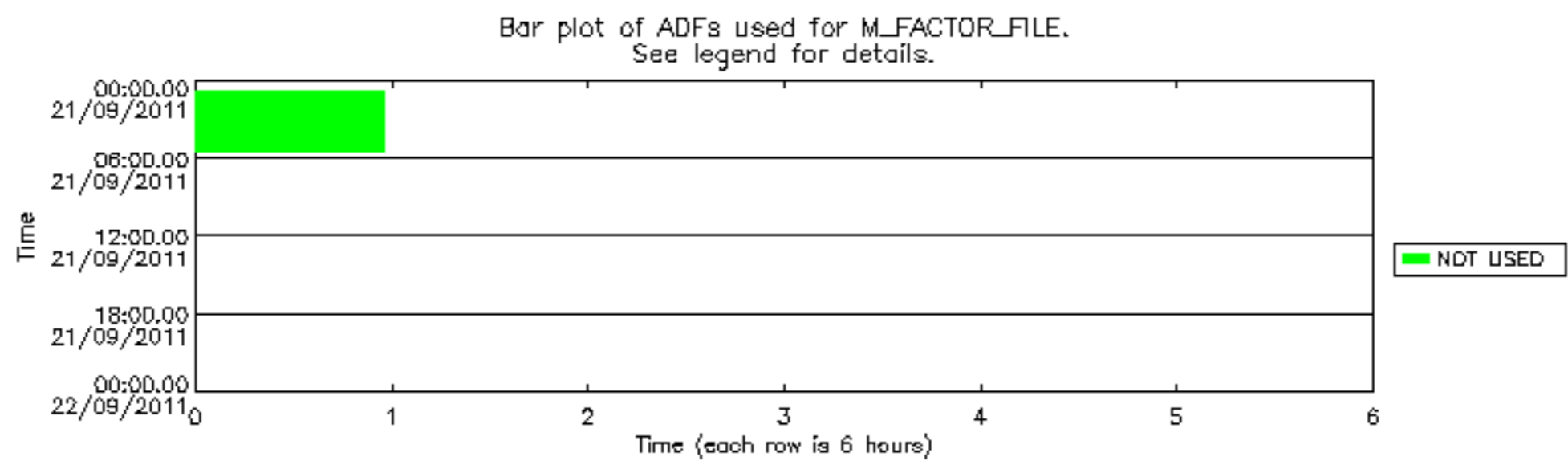


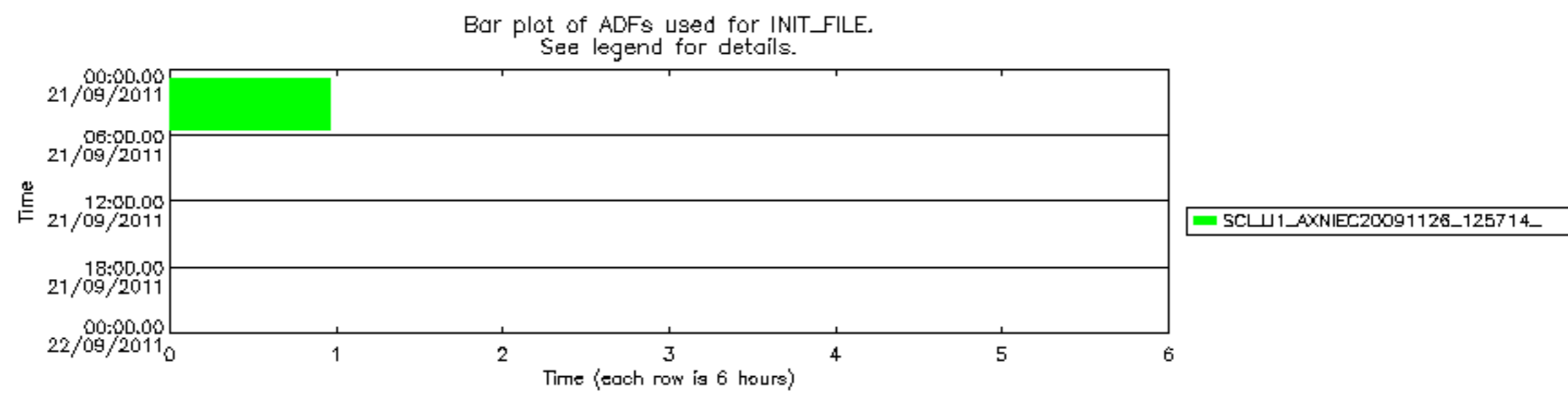


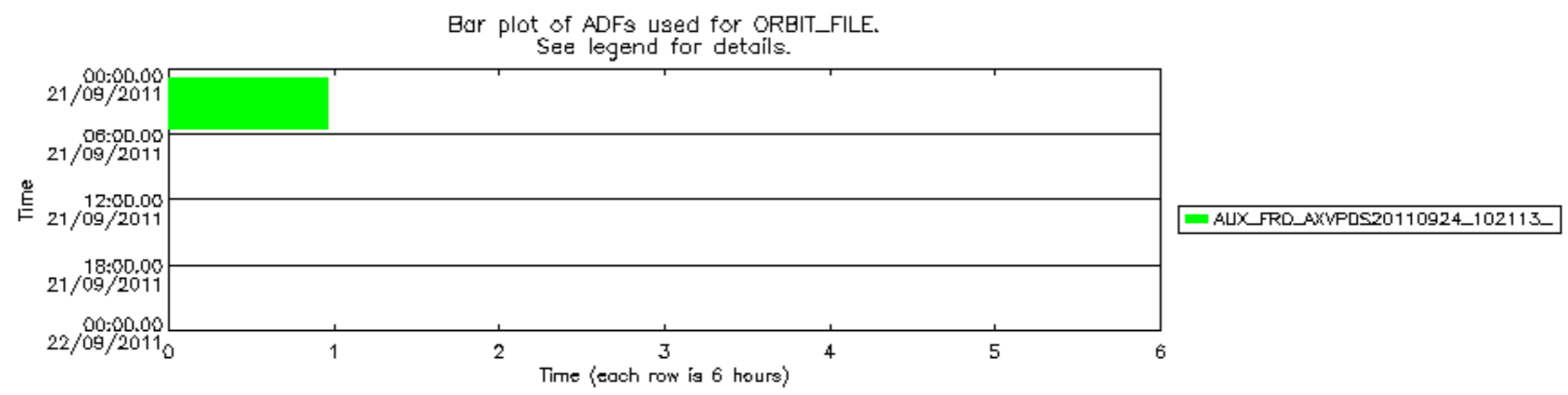


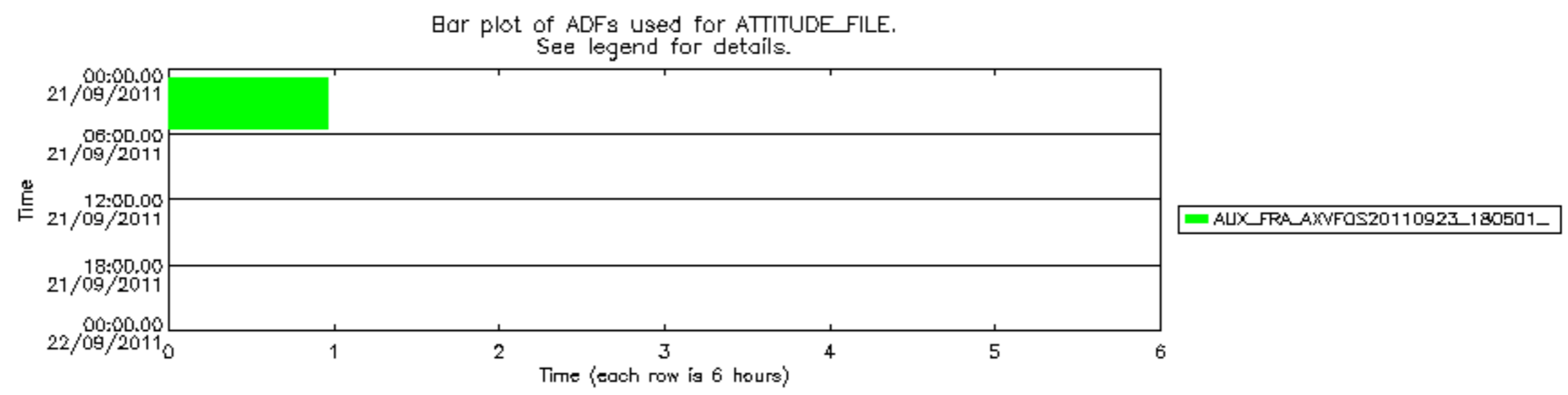












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
 Each row indicates an orbit. A light gray colour indicates the time span of 21SEP2011.
 A medium gray color indicates the time span of available SCINL_1P products for this day.
 The remaining colours indicate planned activities and/or special measurements.
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

