

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 chacteristics of the data that are included into this report.

Item	Value
Report version	1.3 (29-05-2006)
Time of report generation	09APR2008 02:34:53
Data source version	SCIA/6.03-N
Processing scope for products	06APR2008 00:00:00 to 07APR2008 00:00:00
Start time of first product within scope	05APR2008 22:19:55
Stop time of last product within scope	07APR2008 01:20:05
Total number of level 1 products	8
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__1PNPDE20080405_221955_000066532067_00273_31890_0817.N1	05APR2008 22:19:55	06APR2008 00:10:49	0	37	47	1	0	4	15	0
1	SCI_NL__1PNPDE20080406_000439_000064372067_00274_31891_0937.N1	06APR2008 00:04:39	06APR2008 01:51:57	0	35	47	1	0	4	15	0
2	SCI_NL__1PNPDE20080406_014719_000063982067_00275_31892_1056.N1	06APR2008 01:47:19	06APR2008 03:33:58	0	36	46	1	0	4	15	0
3	SCI_NL__1PNPDE20080406_032959_000064002067_00276_31893_1269.N1	06APR2008 03:29:59	06APR2008 05:16:39	0	35	46	1	0	4	15	0
4	SCI_NL__1PNPDK20080406_051131_000064052067_00277_31894_7230.N1	06APR2008 05:11:31	06APR2008 06:58:16	0	36	48	1	0	3	15	0
5	SCI_NL__1PNPDK20080406_065724_000058912067_00278_31895_7363.N1	06APR2008 06:57:24	06APR2008 08:35:35	0	32	44	1	0	3	15	0
6	SCI_NL__1PNPDE20080406_214812_000066582067_00287_31904_1469.N1	06APR2008 21:48:12	06APR2008 23:39:11	0	36	47	1	0	4	15	0
7	SCI_NL__1PNPDE20080406_233201_000064842067_00288_31905_1533.N1	06APR2008 23:32:01	07APR2008 01:20:05	0	36	46	1	0	4	15	0

1.2 Product Quality Indicators

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

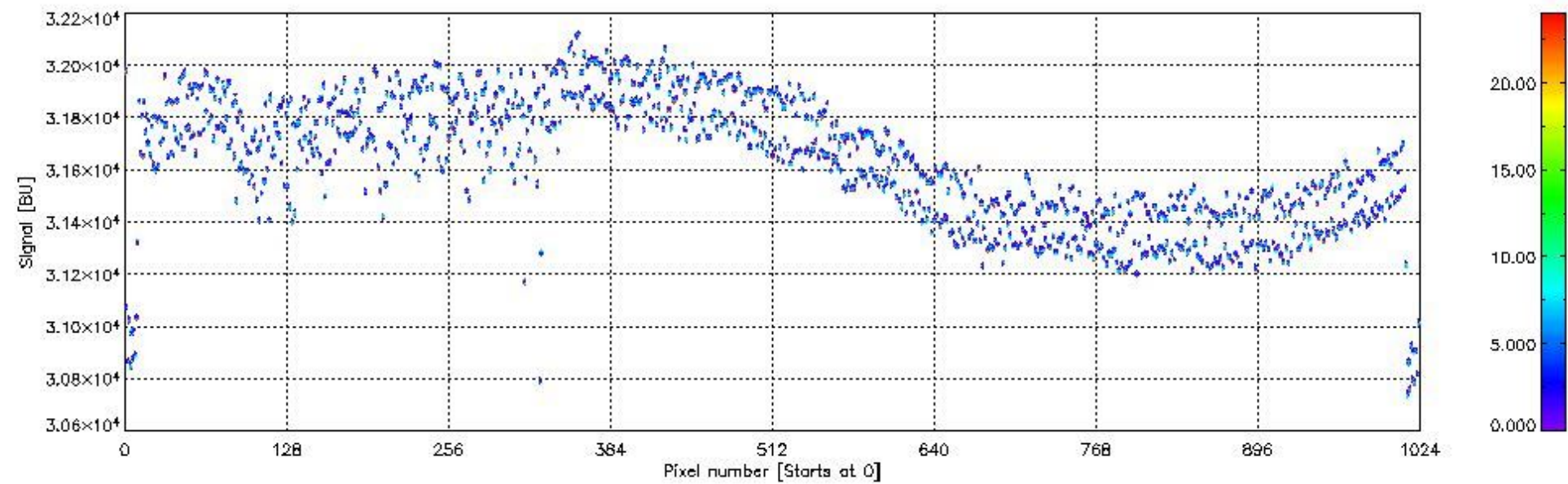
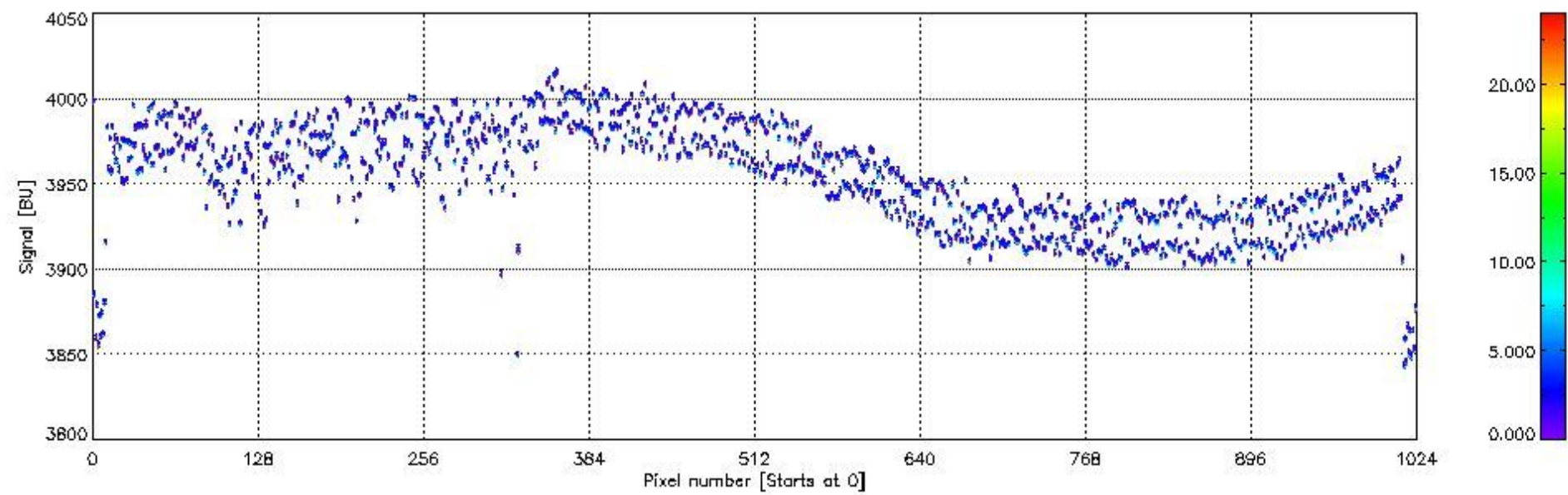
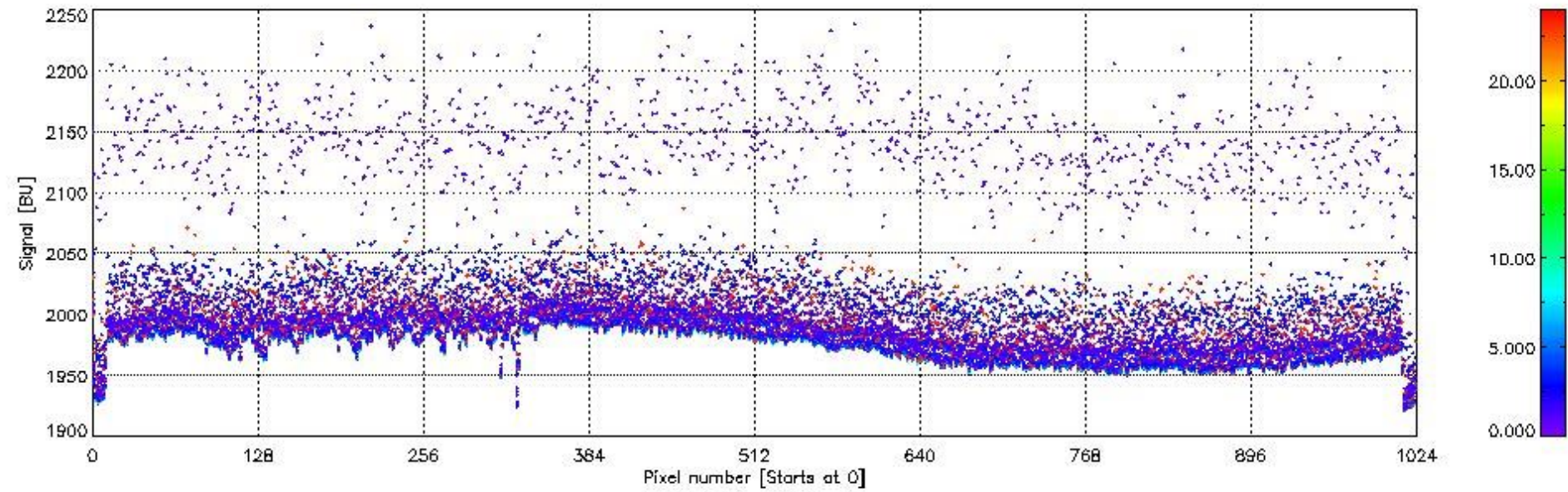
The following data items are currently included into this section:

- Dark measurements (if available)
- New leakage current parameters (if available)
- New spectral calibration parameters (if available)
- New sun reference spectrum (if available)
- New PPG/Etalon parameters (if available)

1.2.1 Dark measurements overview

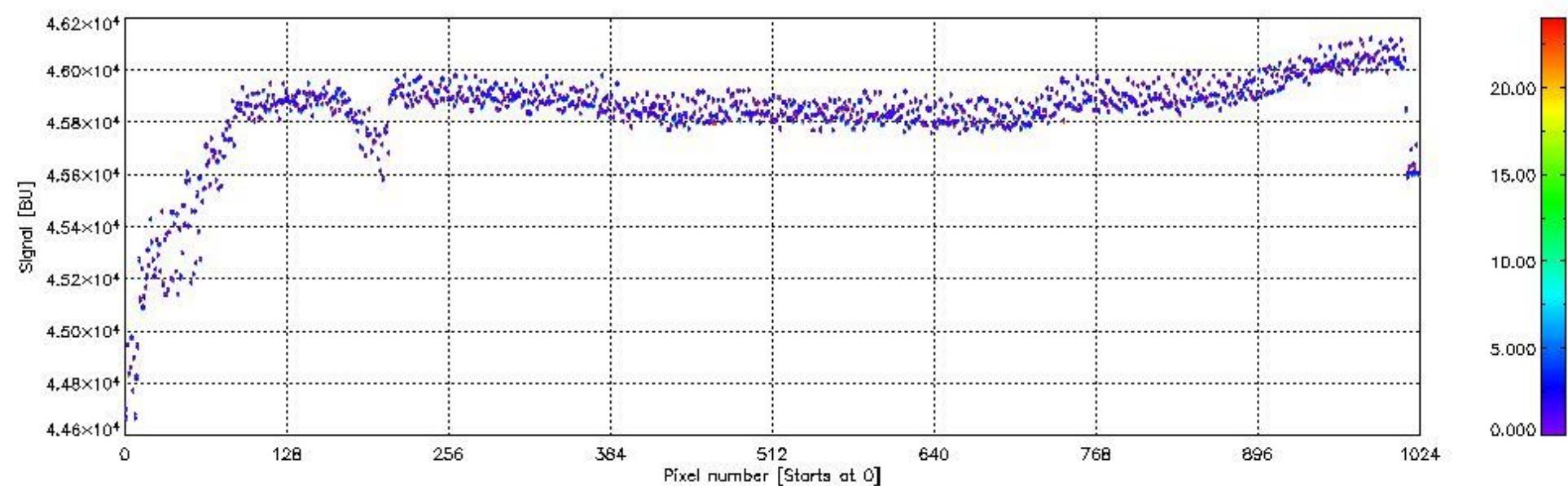
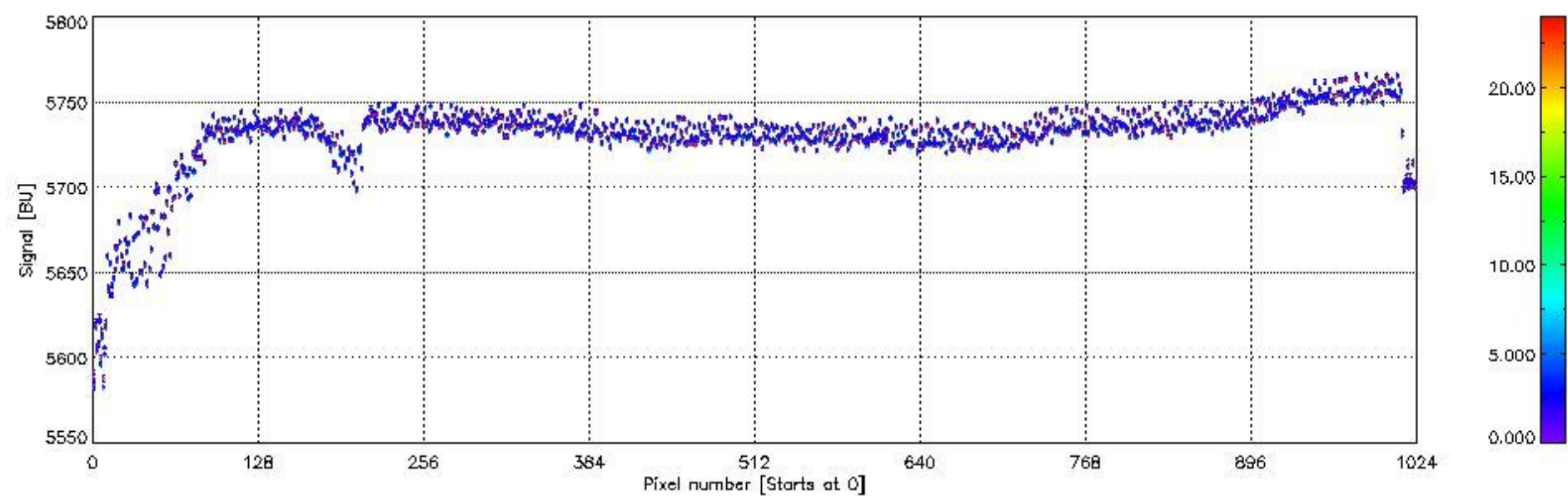
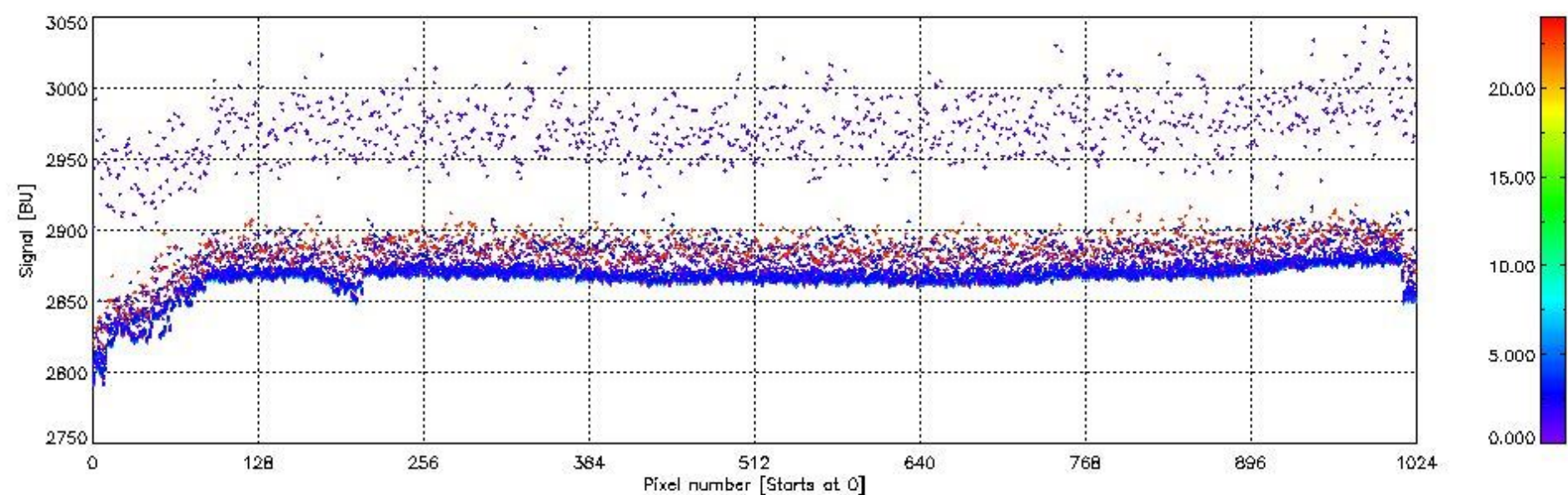
This section lists properties of the dark measurements performed within the processing scope.

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 1 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



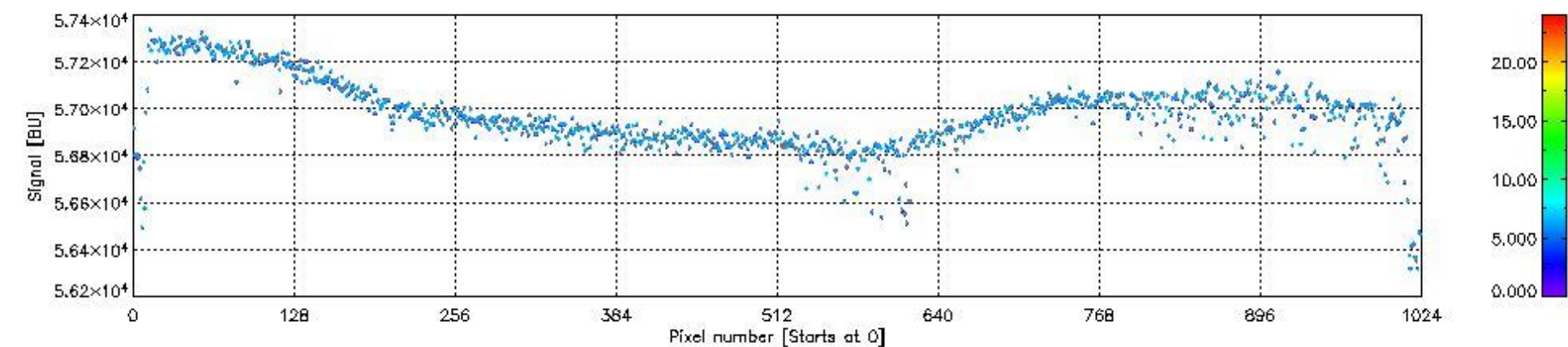
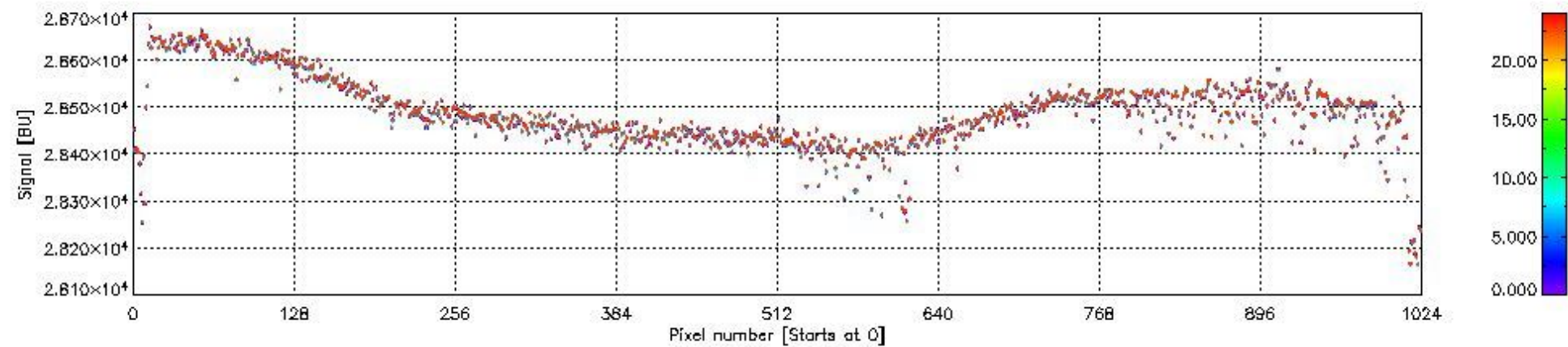
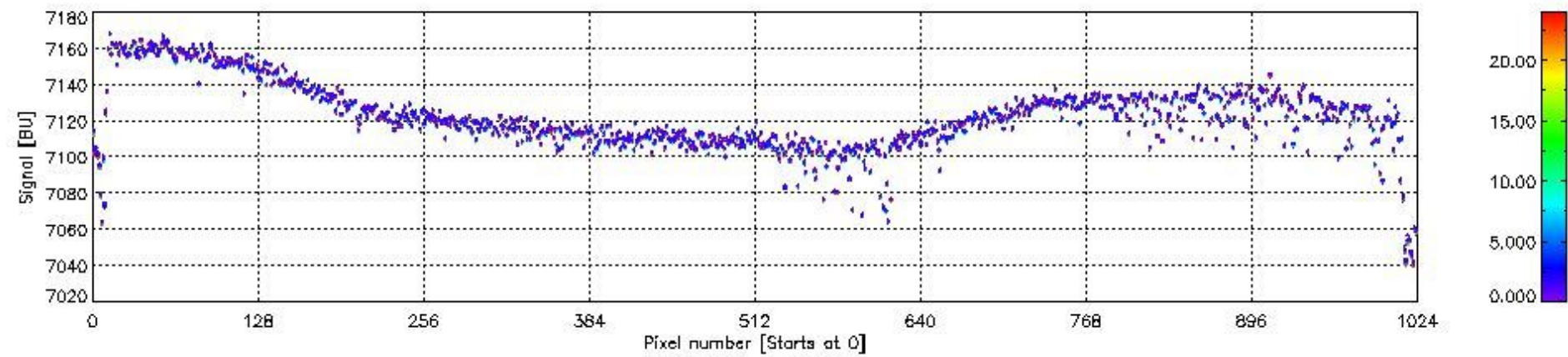
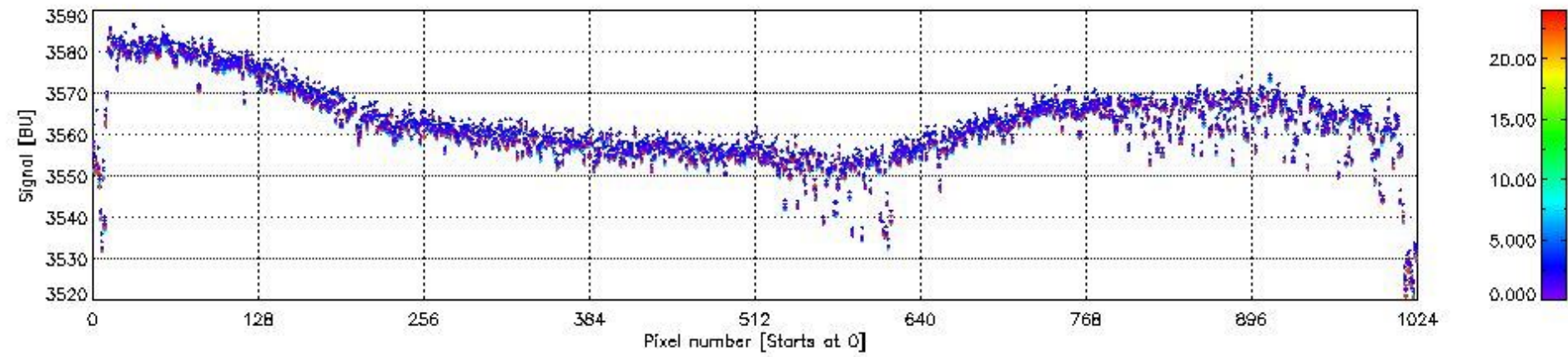
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_0.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 2 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



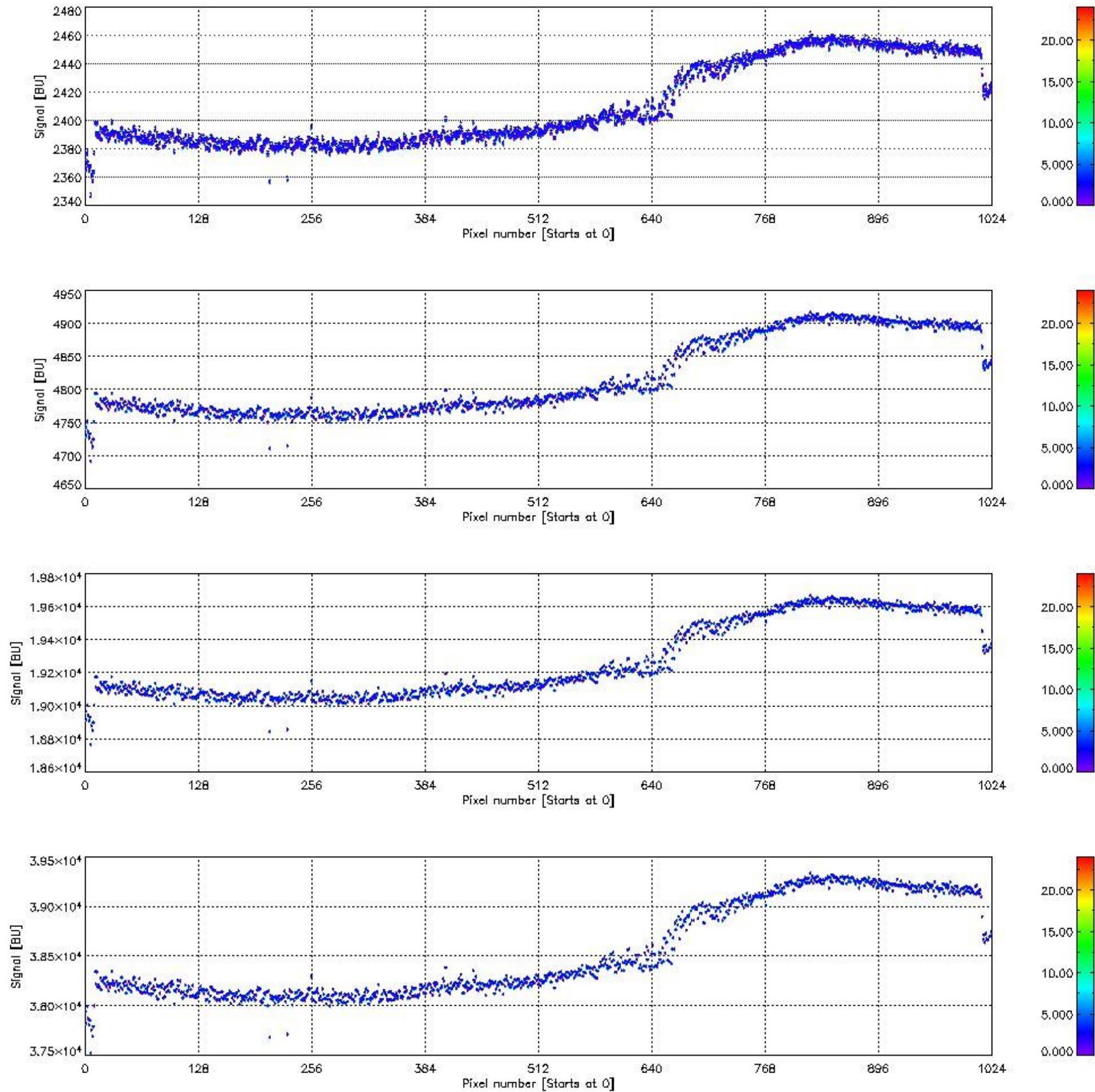
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_1.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 3 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



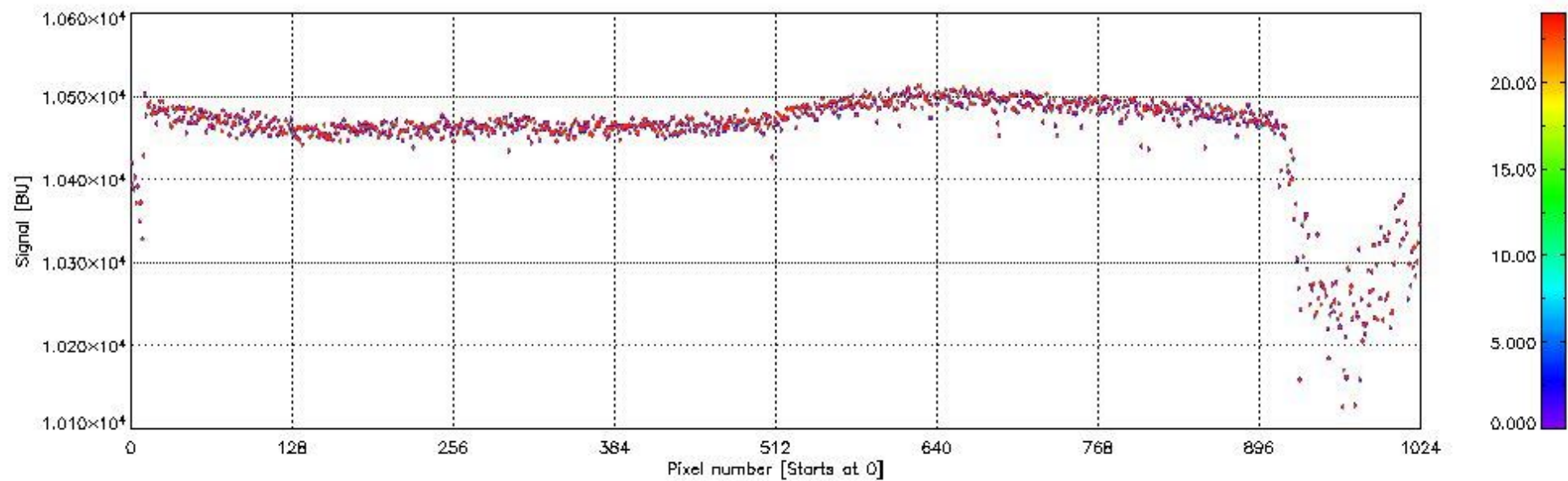
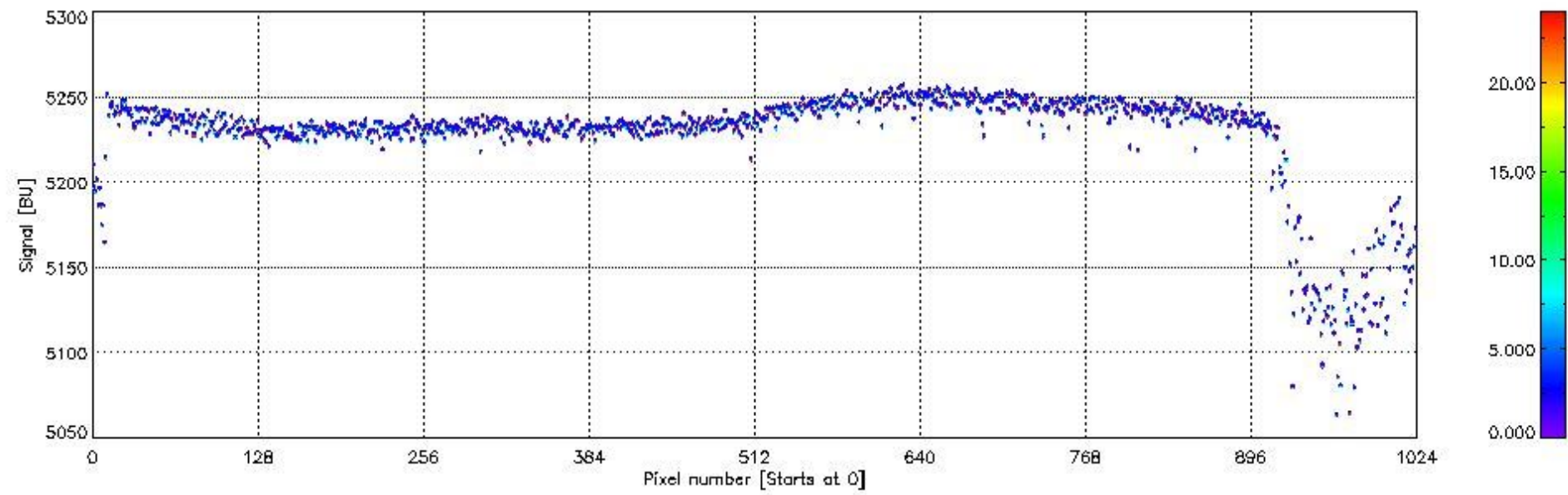
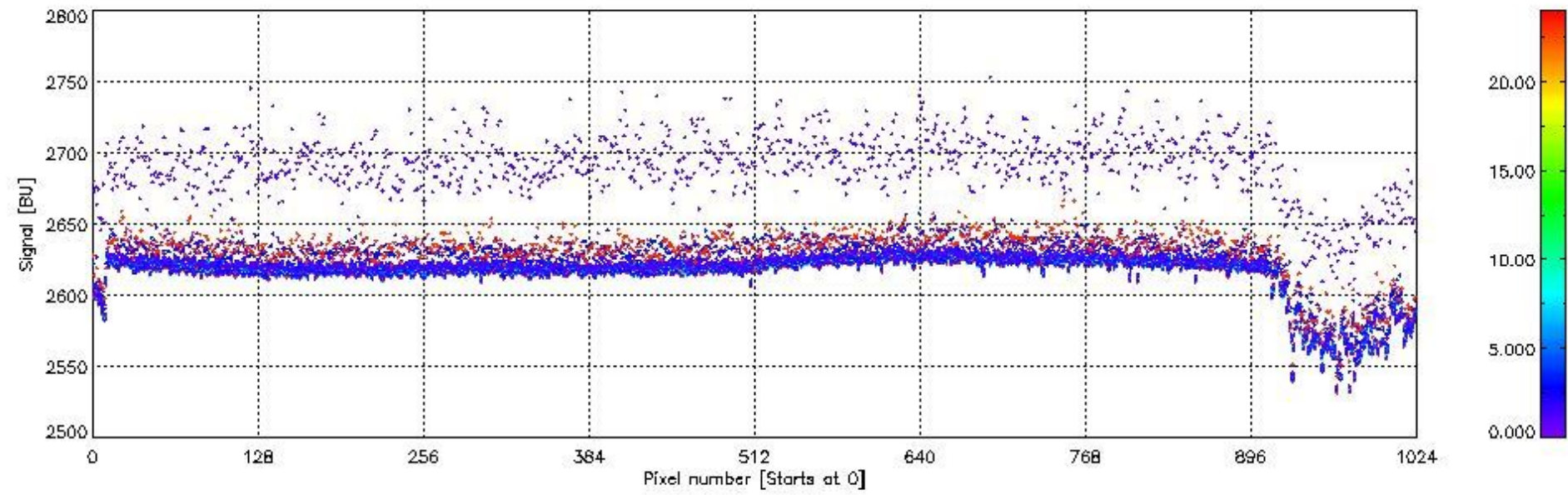
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_2.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 4 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



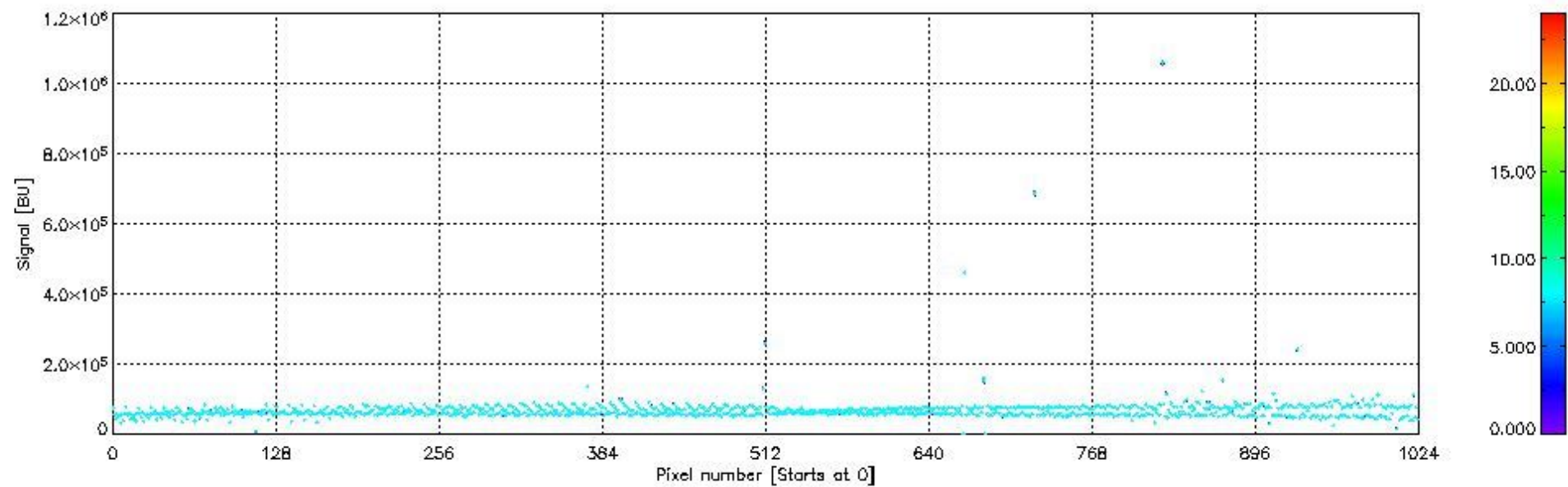
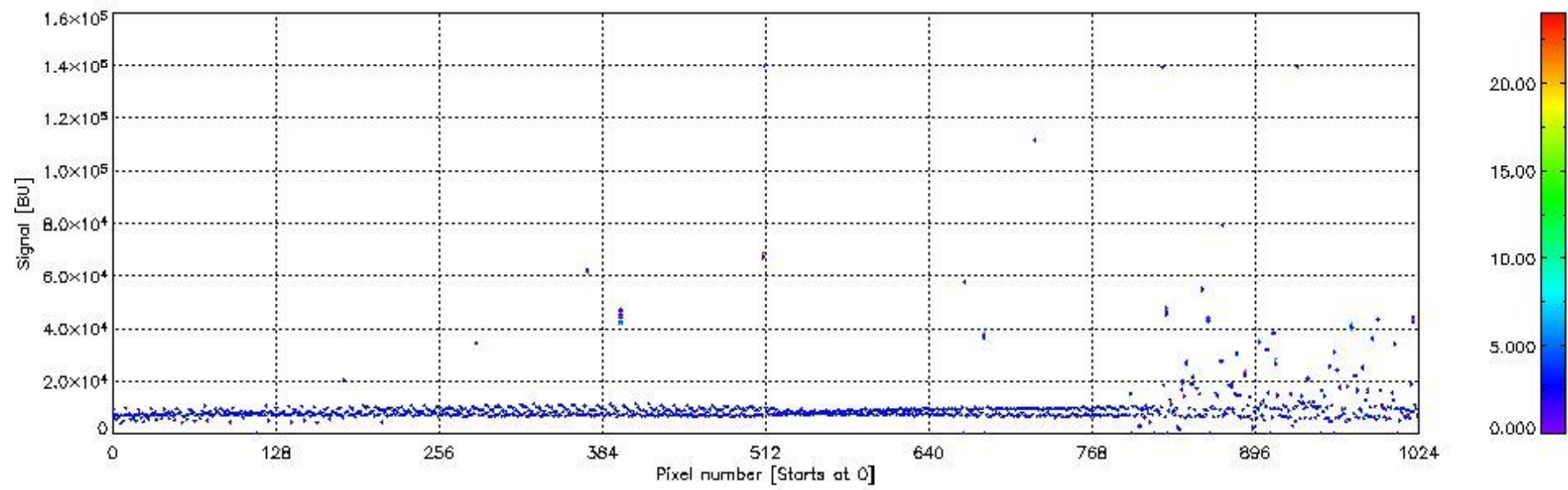
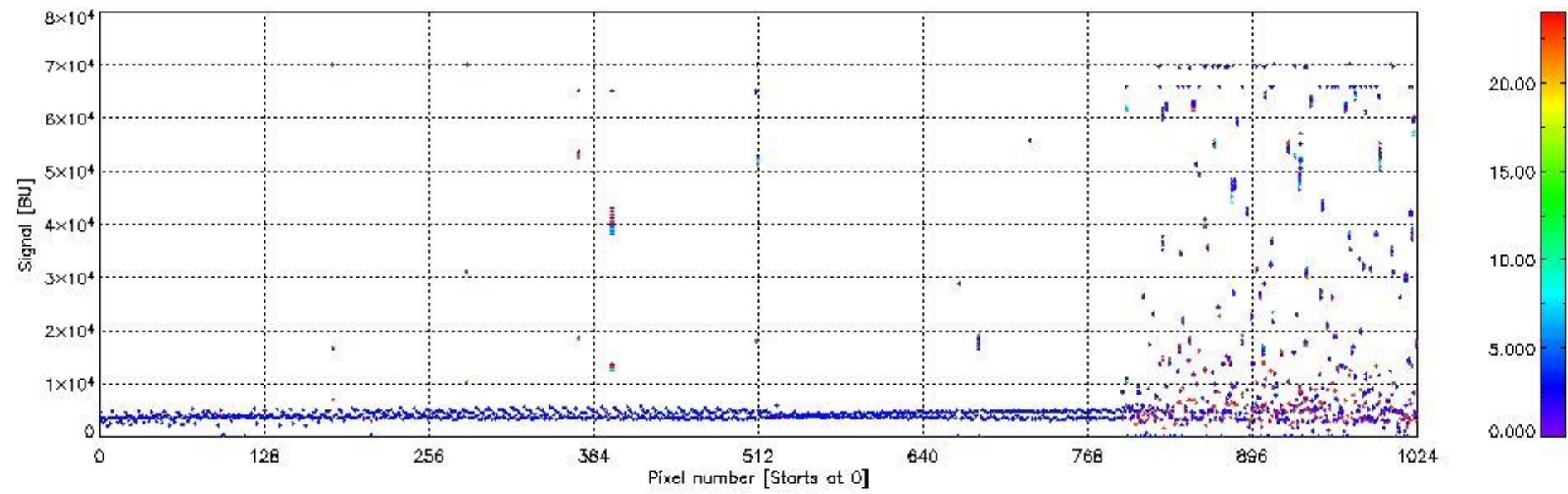
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_3.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 5 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



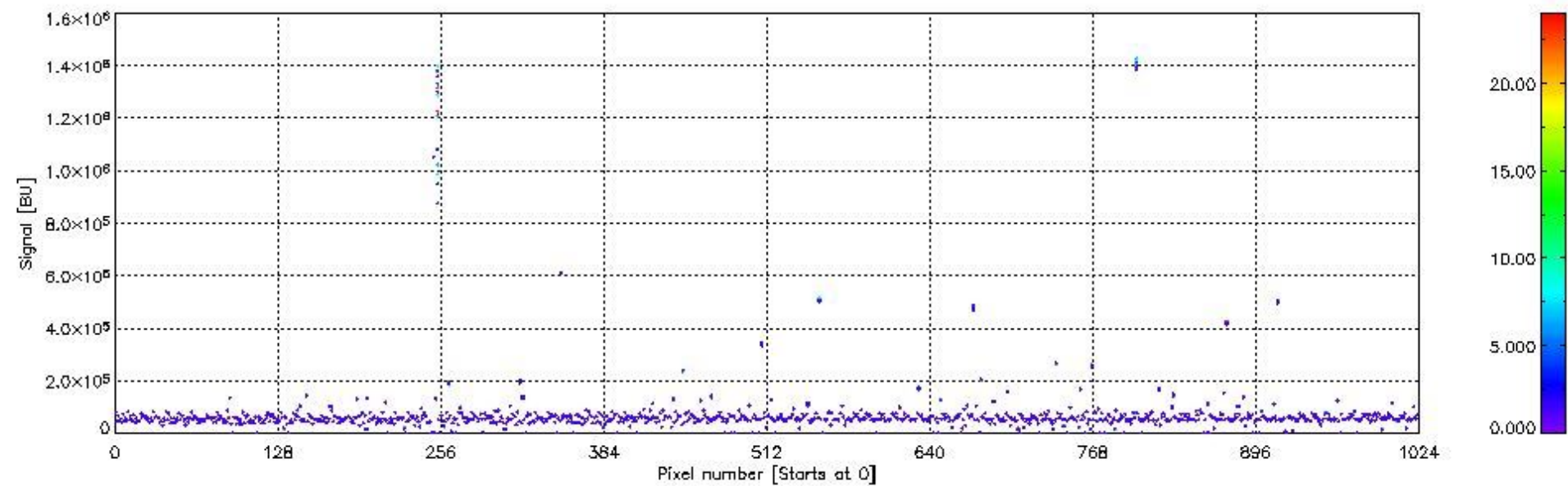
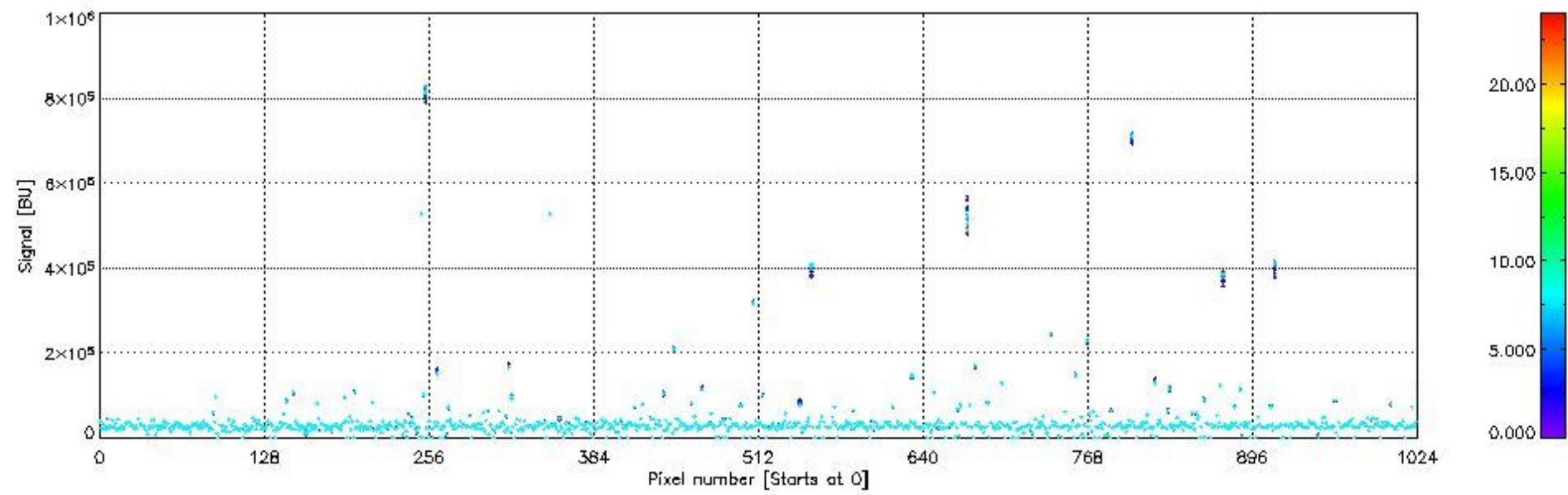
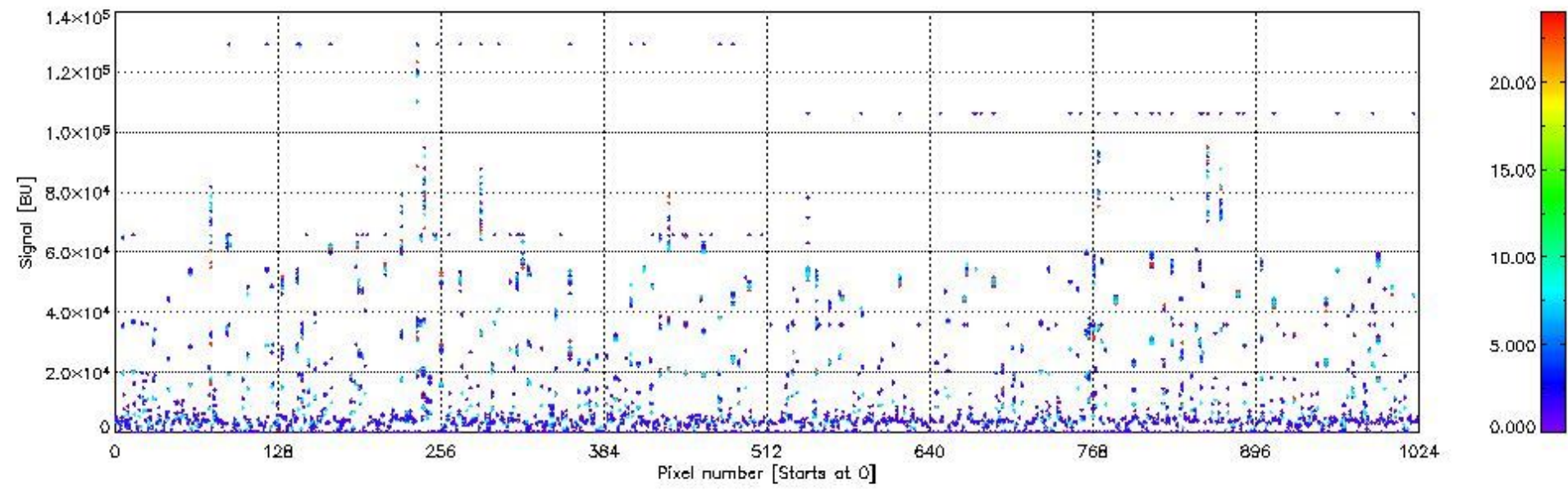
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_4.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 6 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



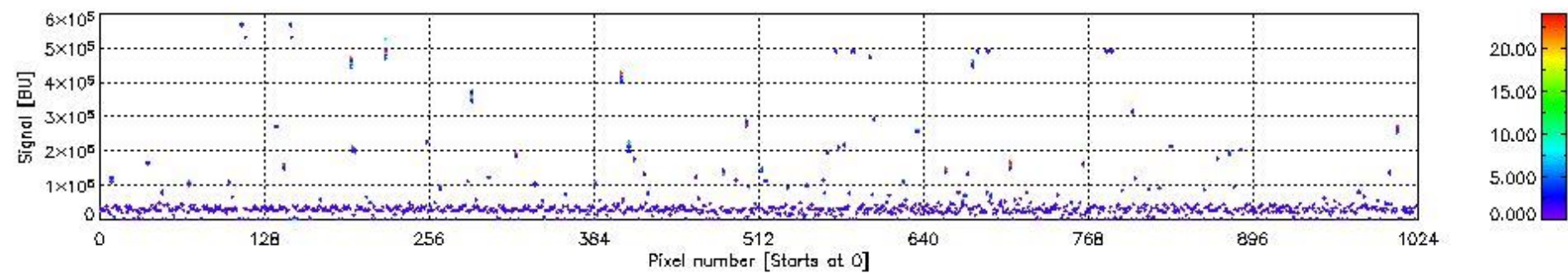
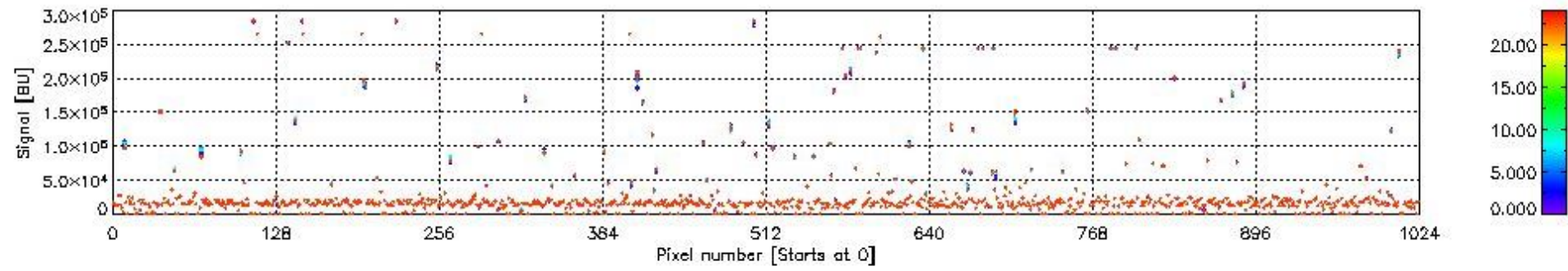
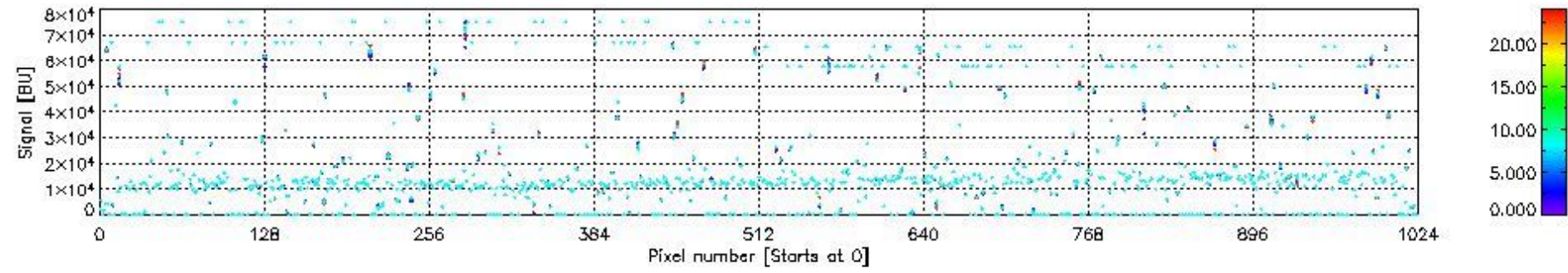
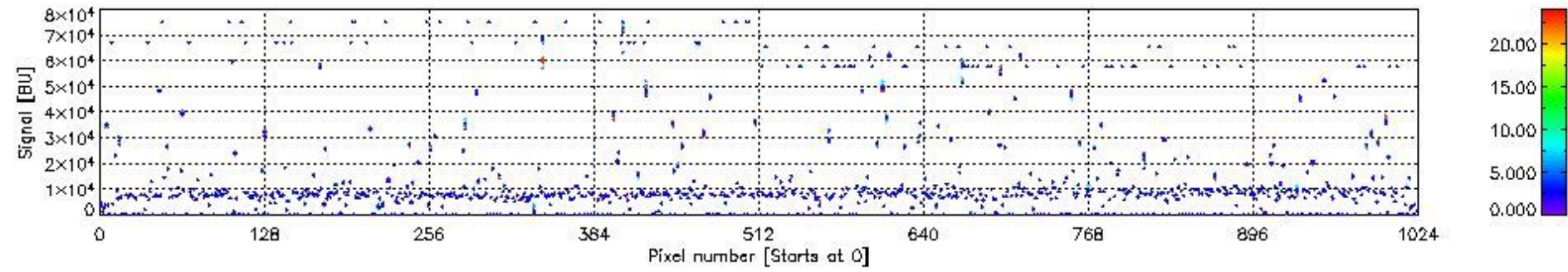
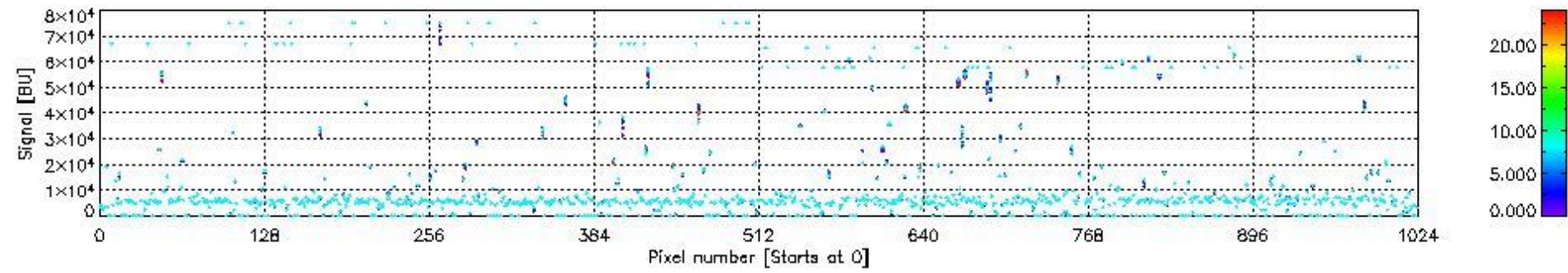
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_5.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 7 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



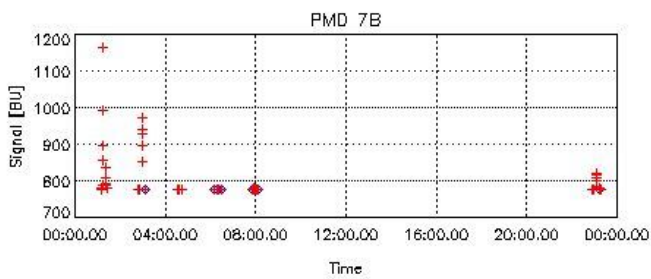
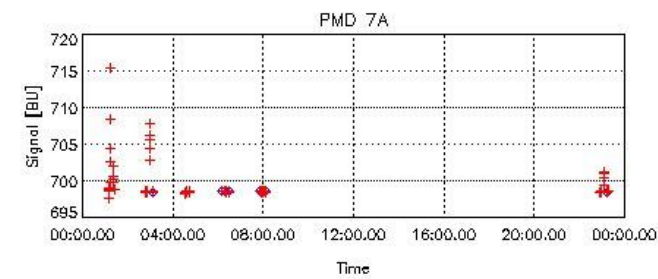
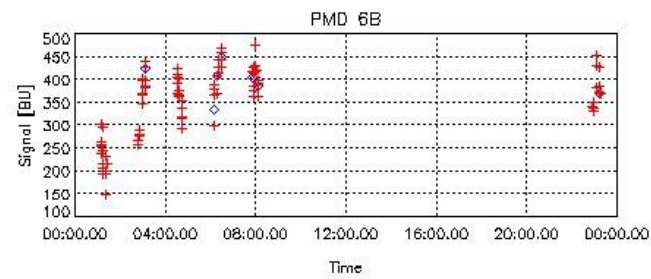
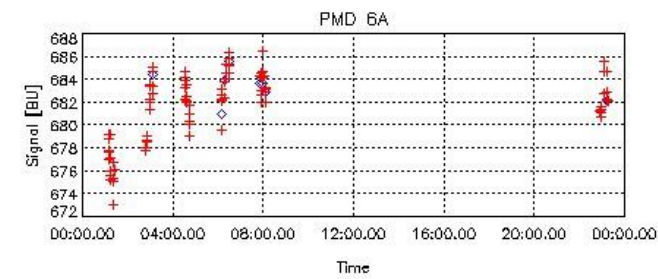
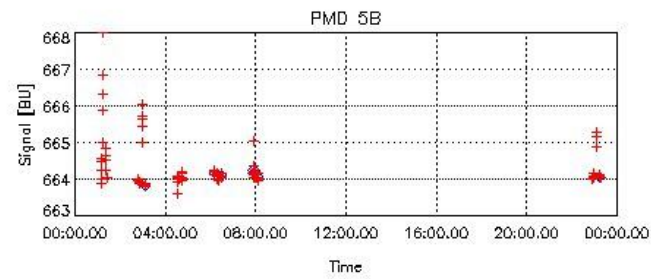
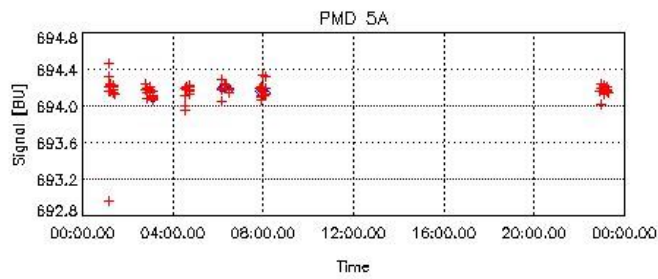
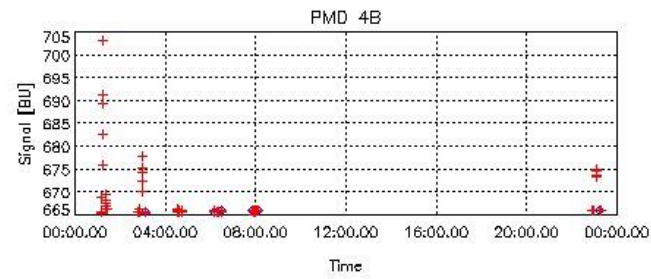
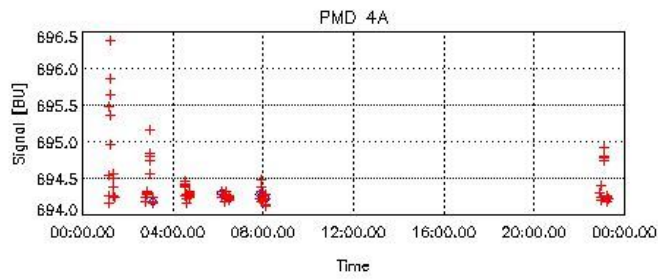
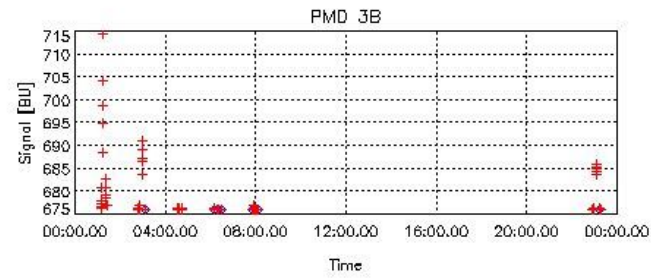
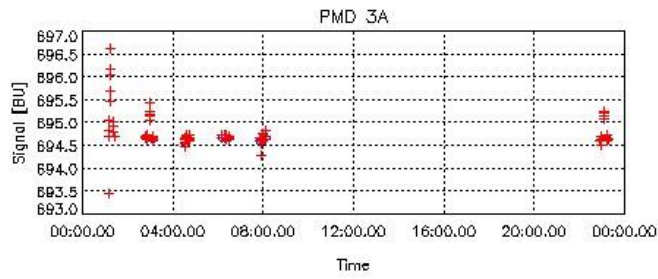
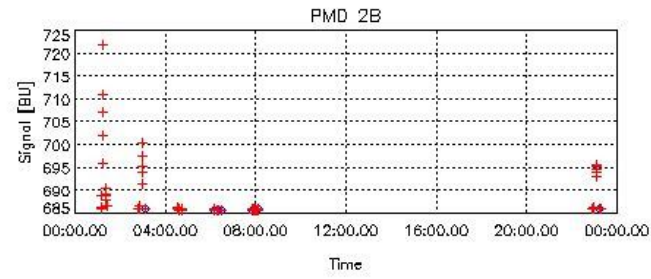
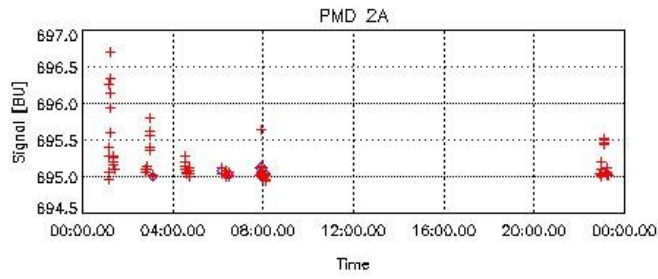
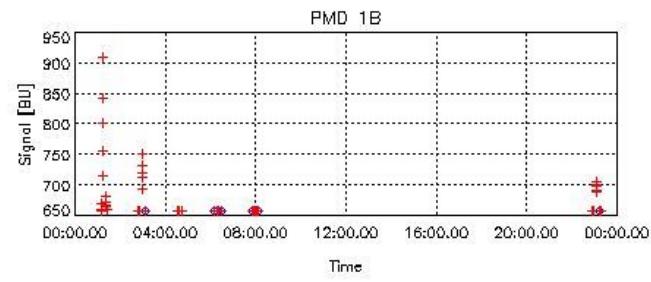
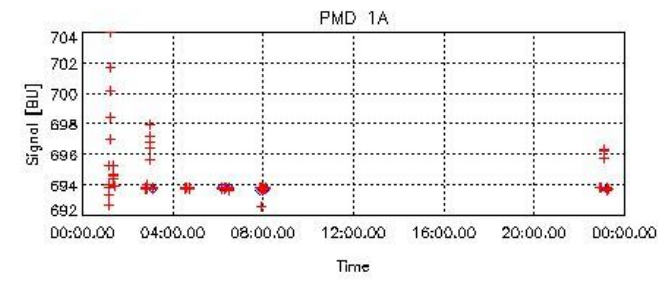
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_6.PNG

Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 8 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



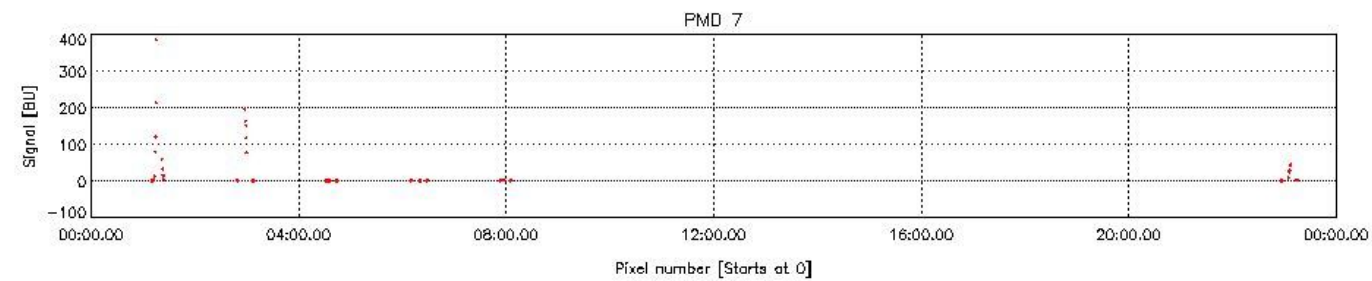
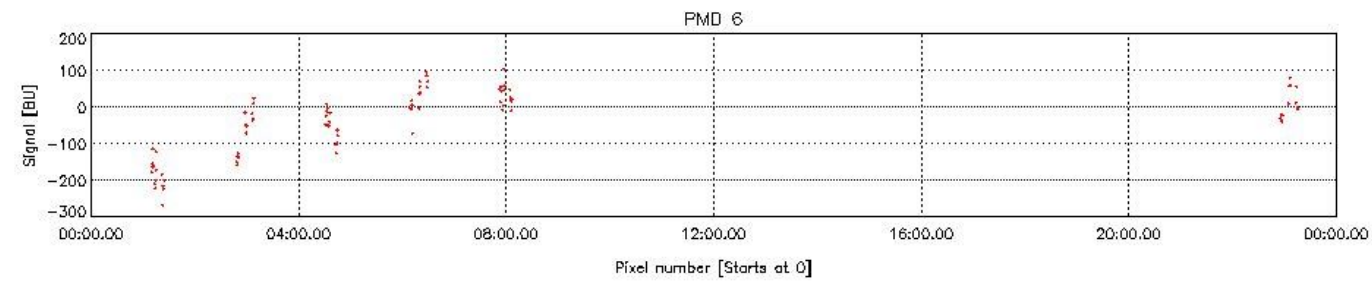
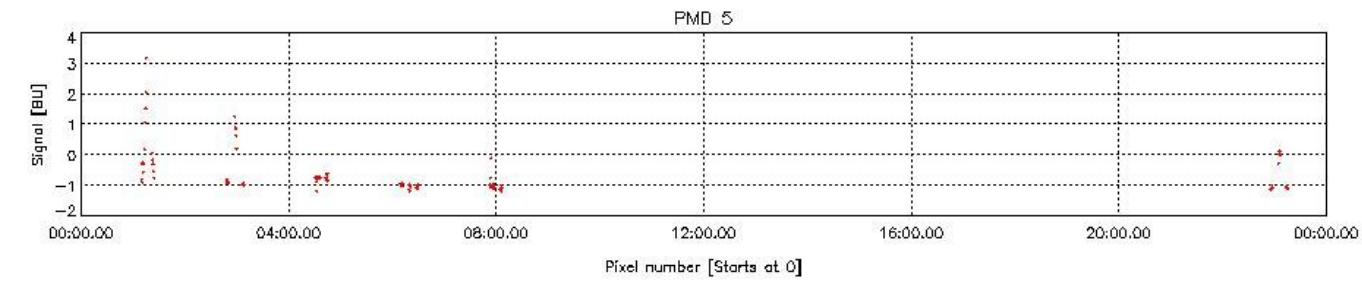
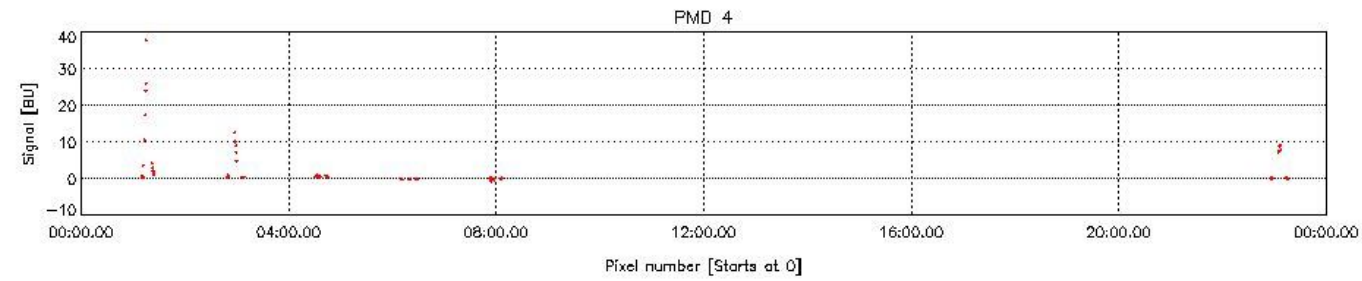
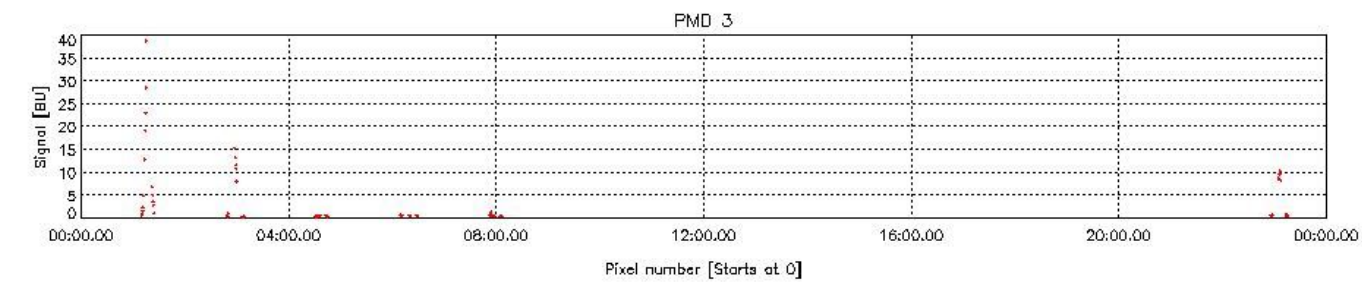
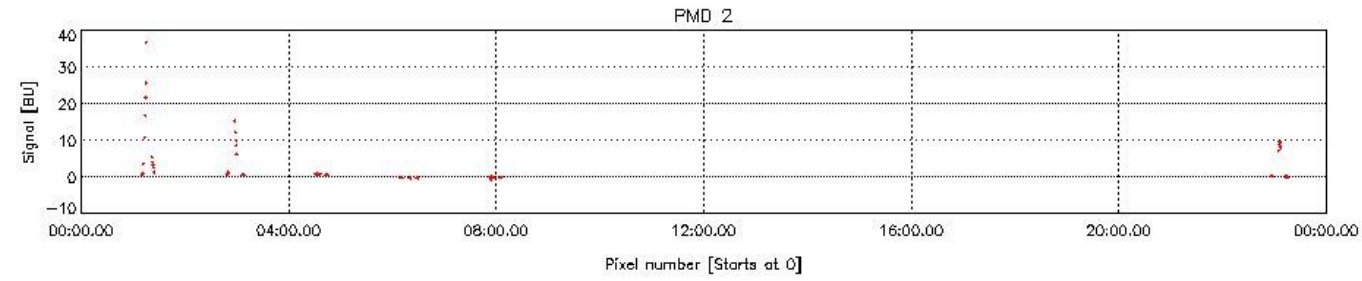
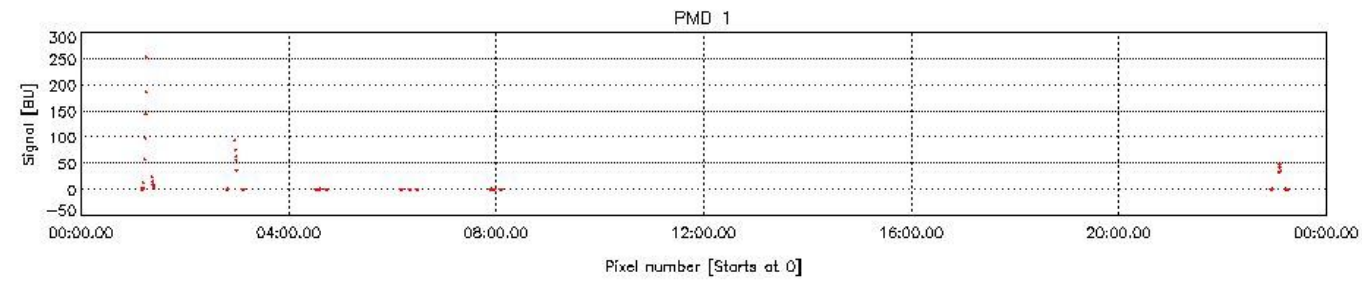
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_7.PNG

Plots of SCINL1P_DARAVE_pmd_dark_offset vs time on 06APR2008 (red).
New leakage current offset data is given in blue for comparison.

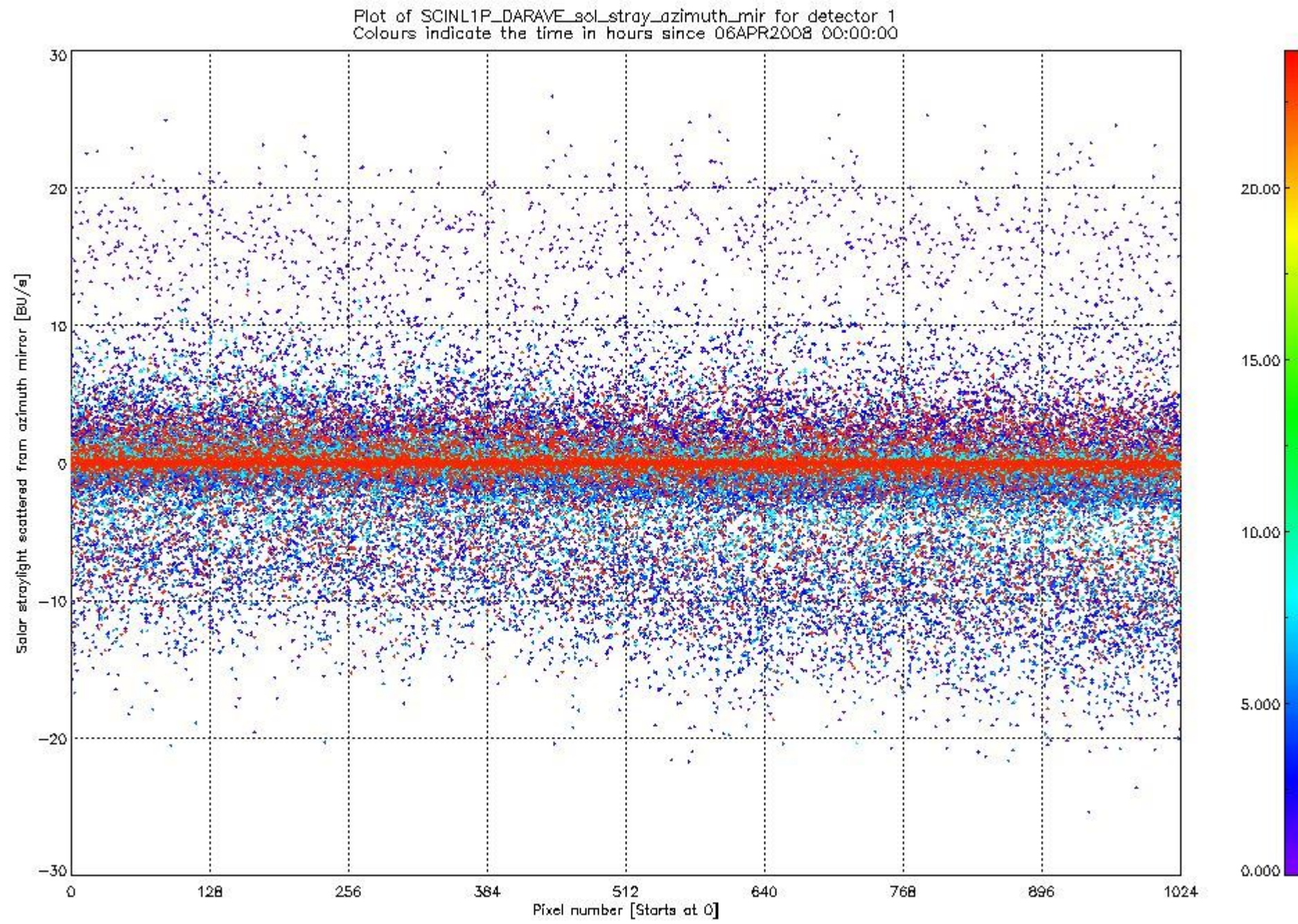


sciamachy_daily_report_level1_SCIA_6_03_N_20080406_8.PNG

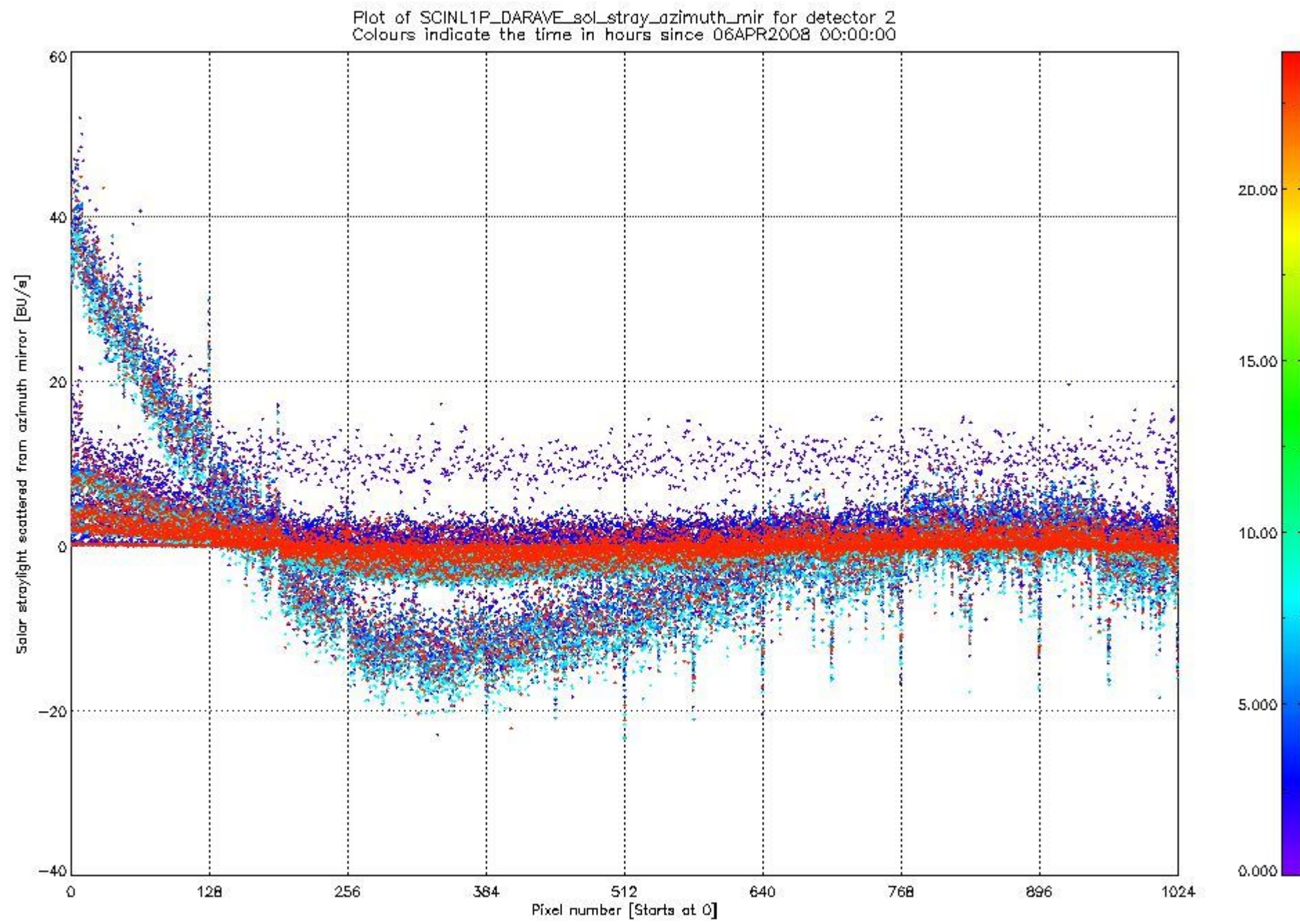
Plots of SCINL1P_DARAVE_stray_off_pmd vs time on 06APR2008.



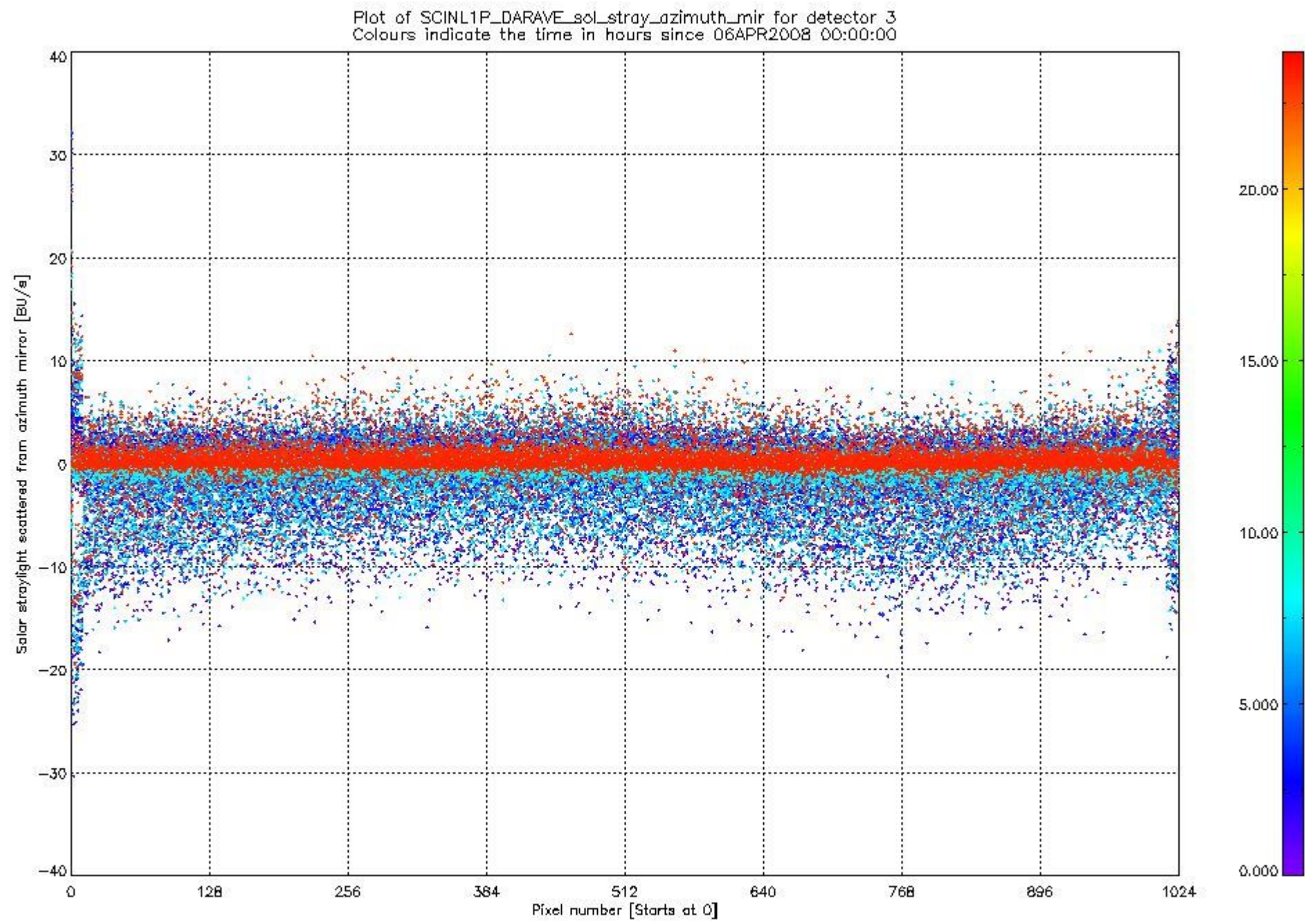
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_9.PNG



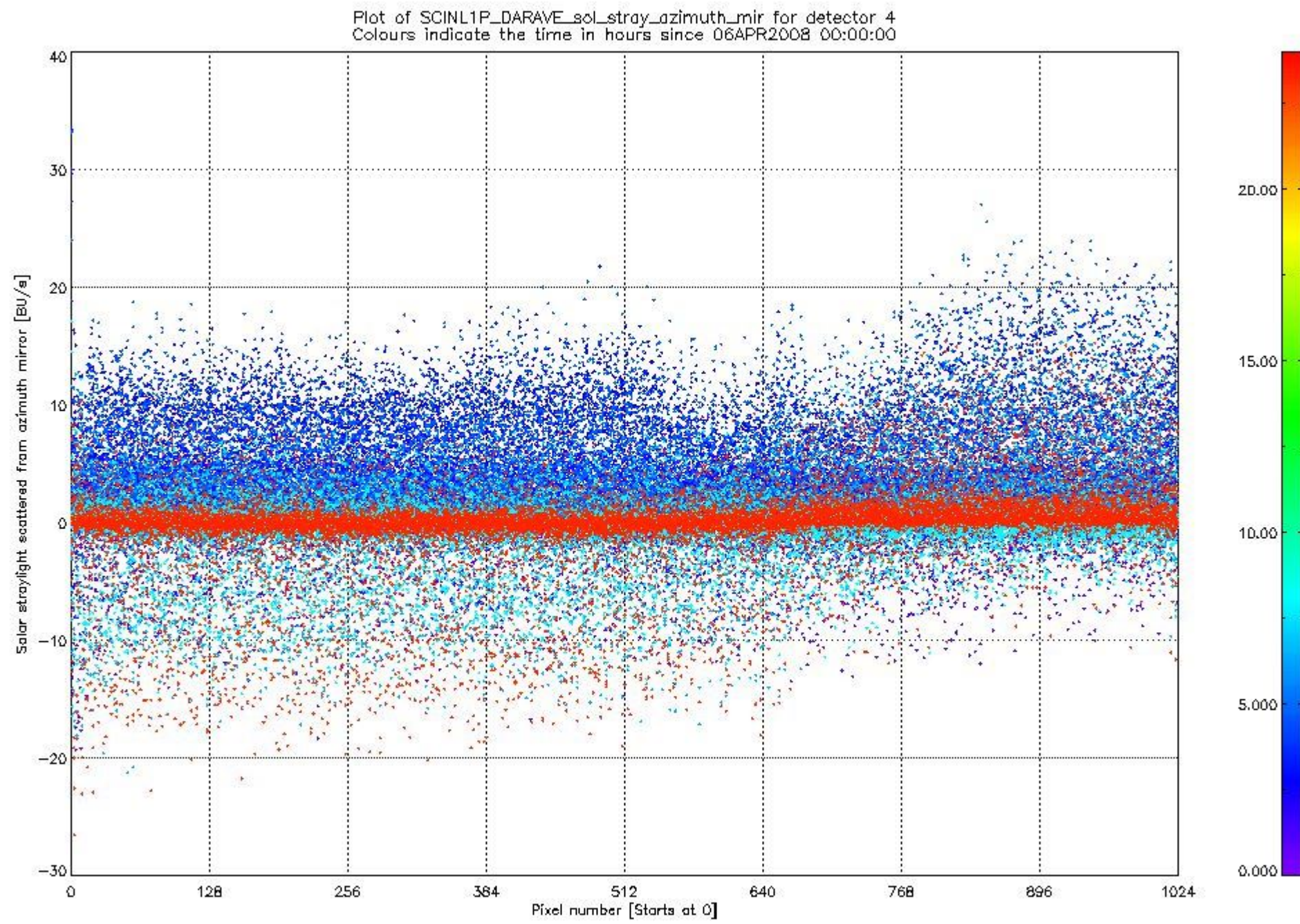
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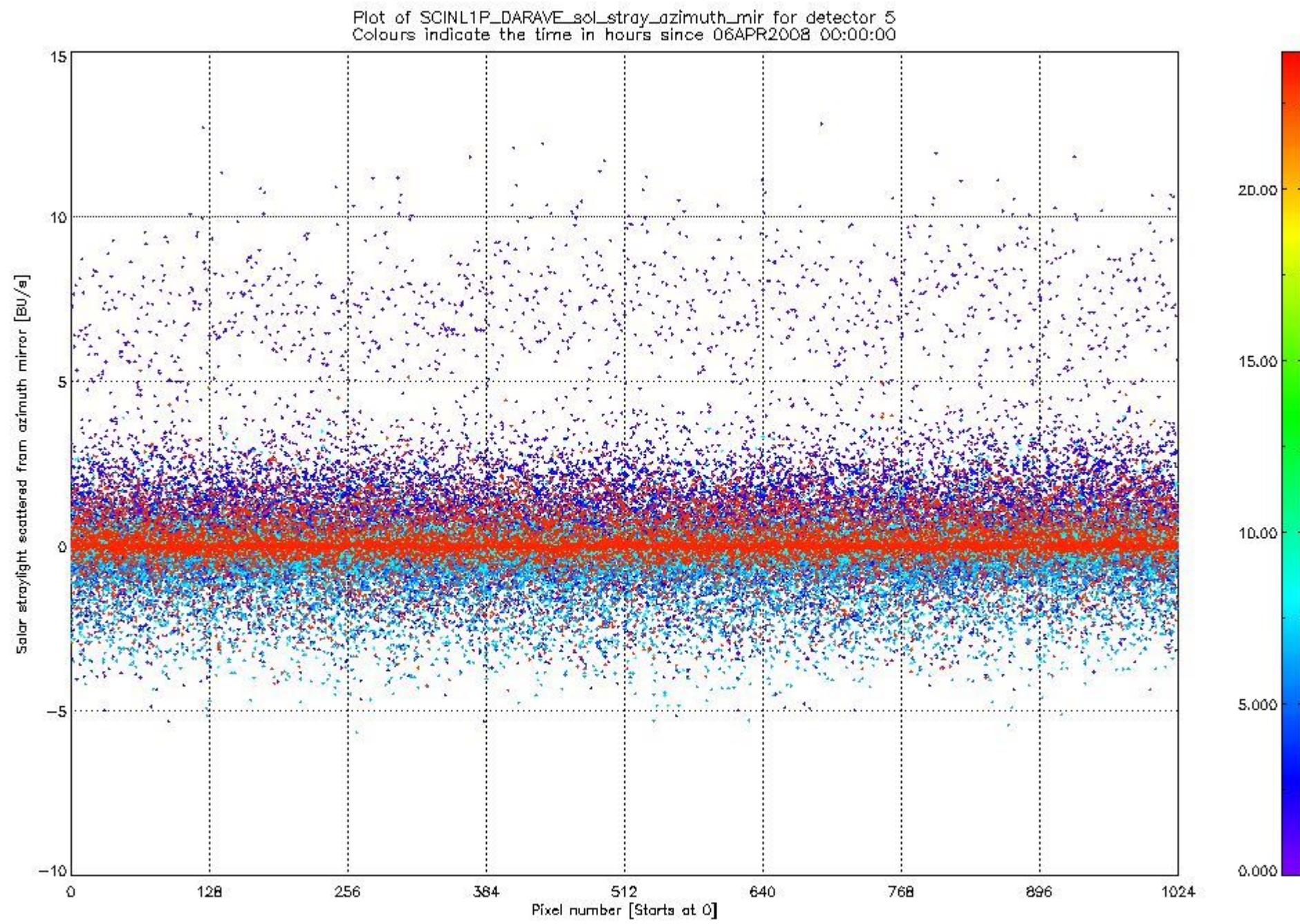
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_11.PNG



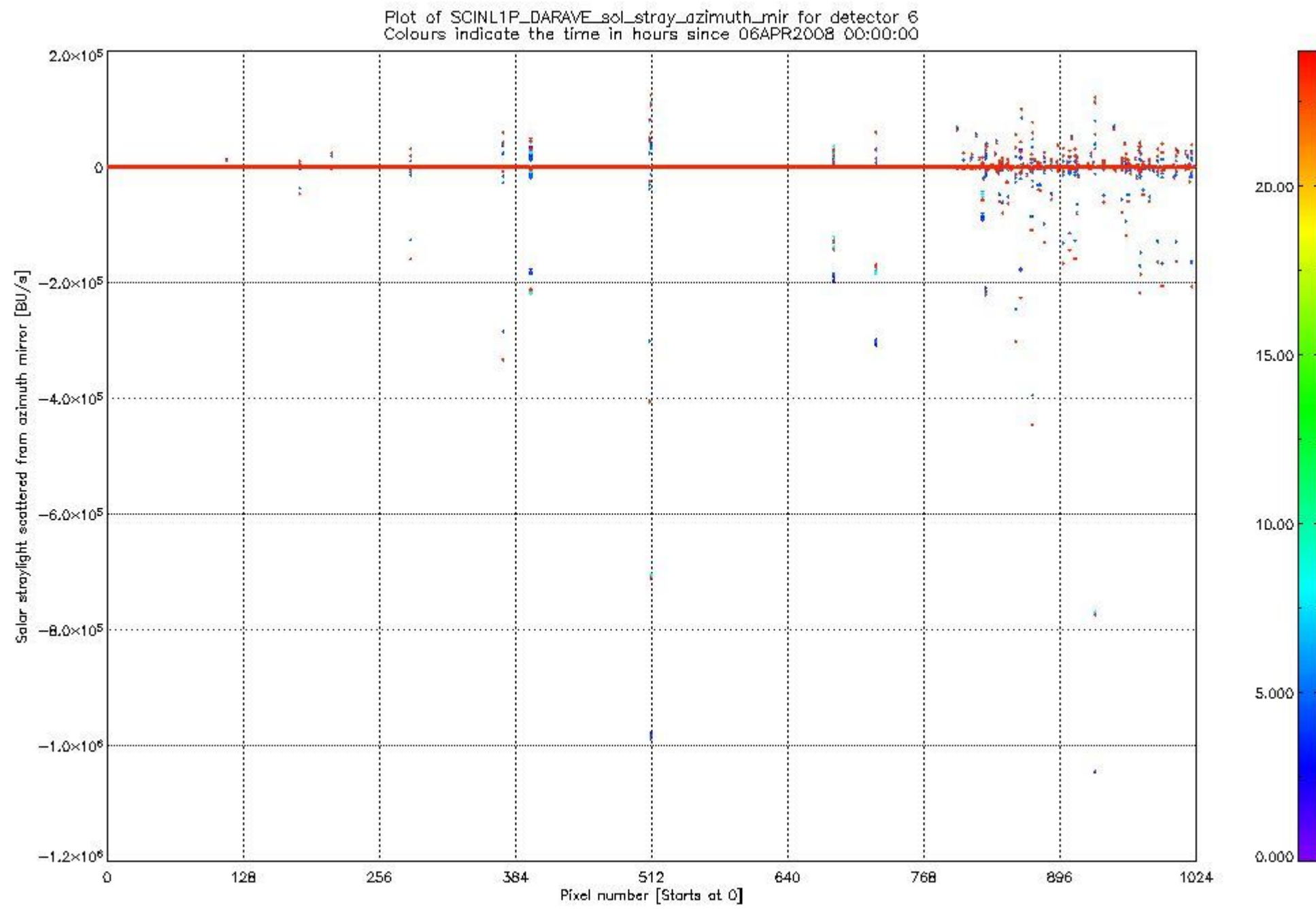
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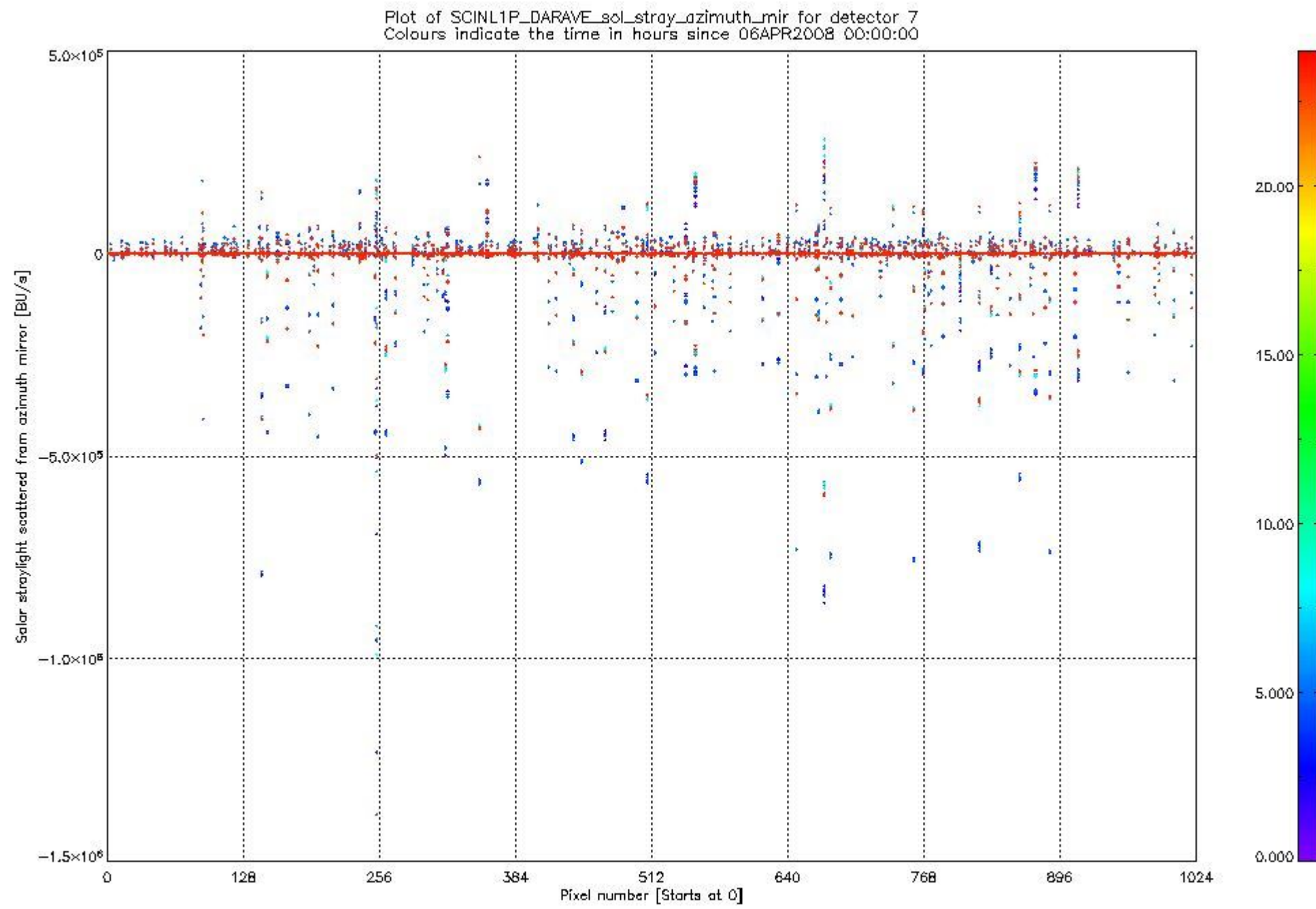
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_13.PNG



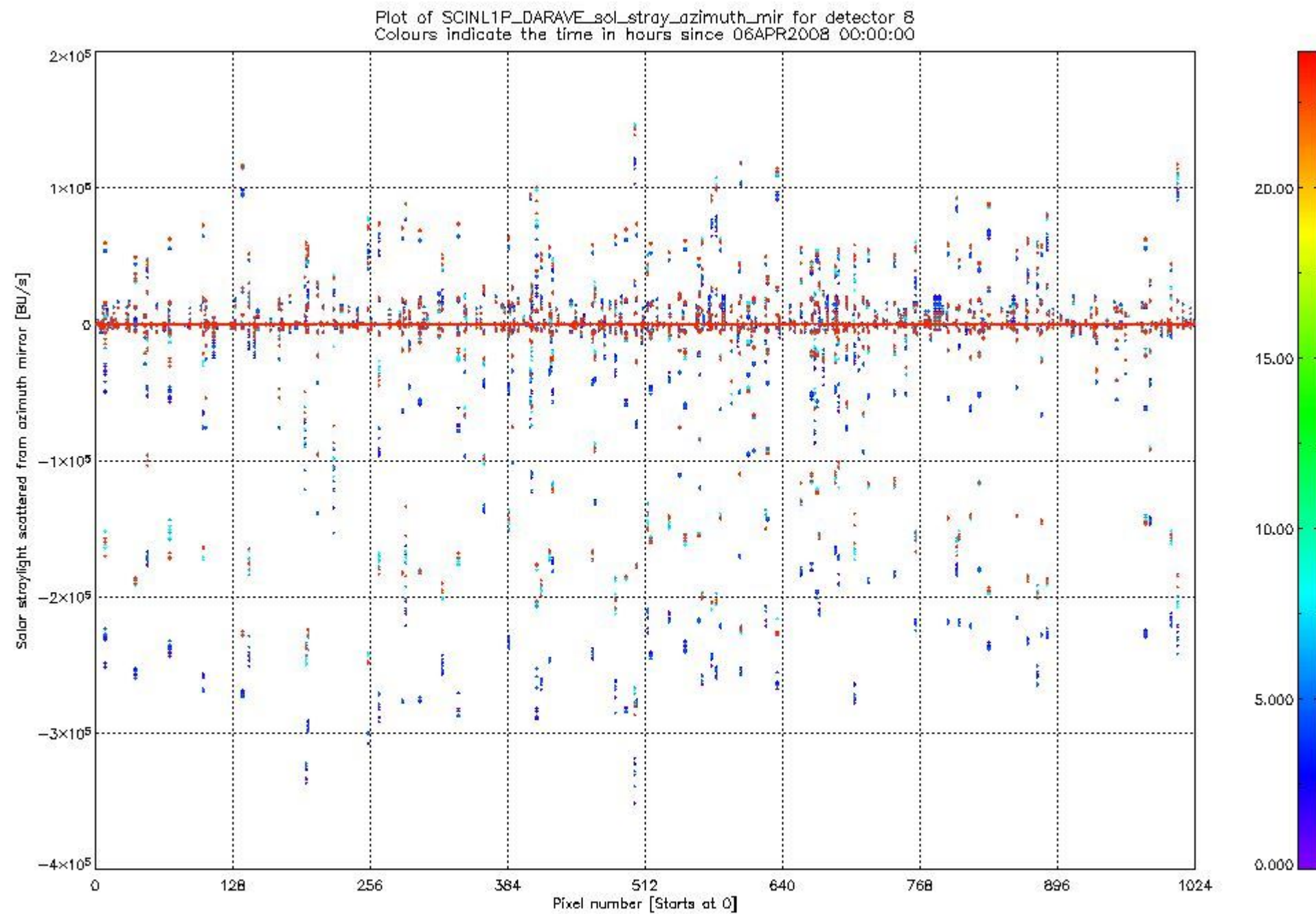
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_14.PNG



sciamachy_daily_report_level1_SCIA_6_03_N_20080406_15.PNG



sciamachy_daily_report_level1_SCIA_6_03_N_20080406_16.PNG



sciamachy_daily_report_level1_SCIA_6_03_N_20080406_17.PNG

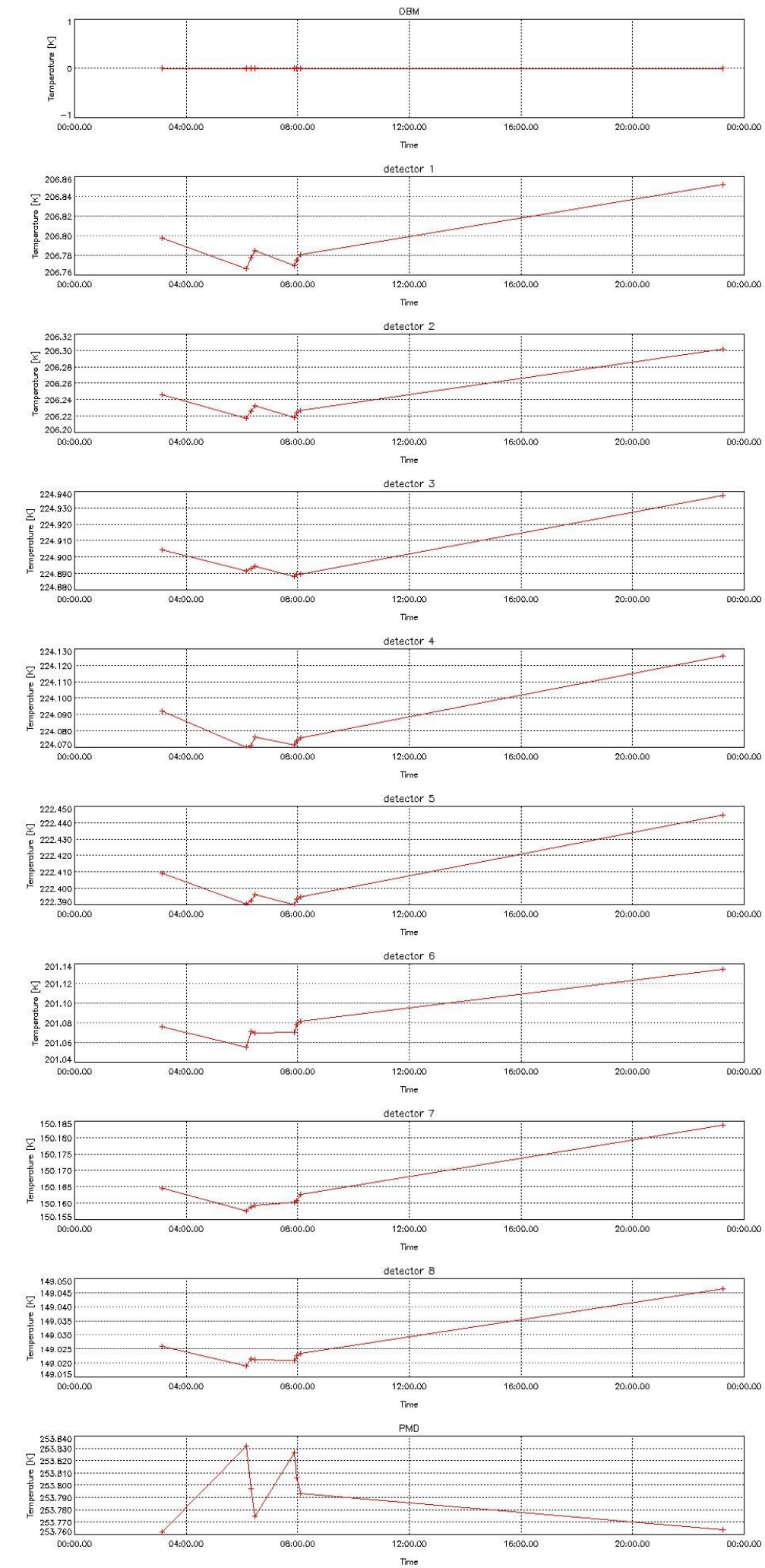
1.2.2 New leakage current parameters

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

The following table shows the new leakage measurement data characteristics.

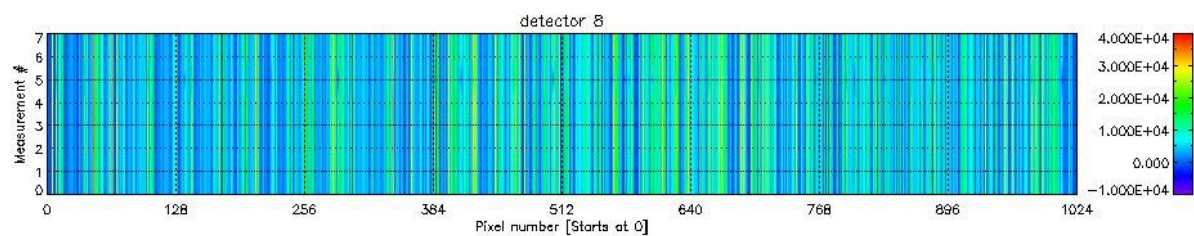
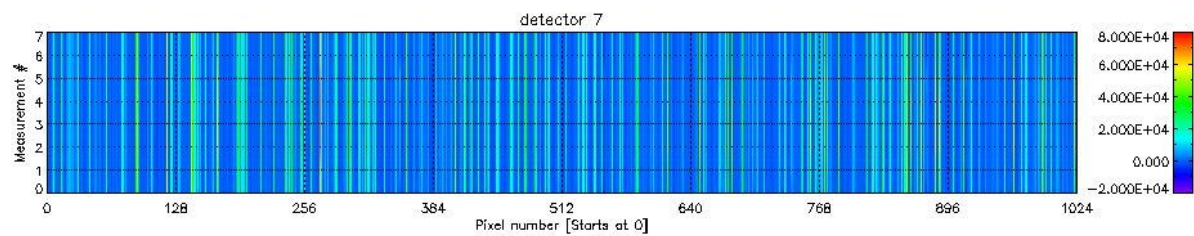
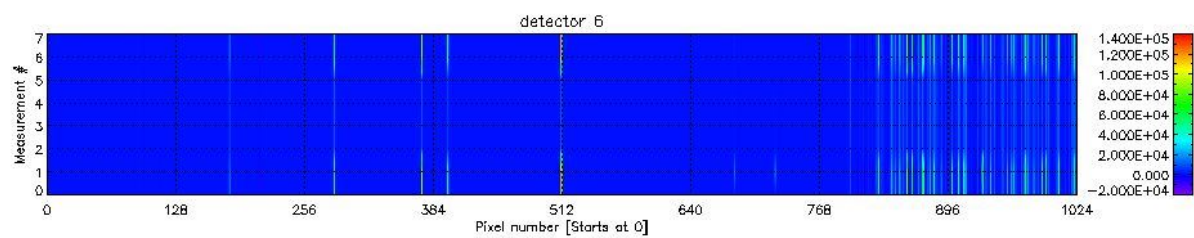
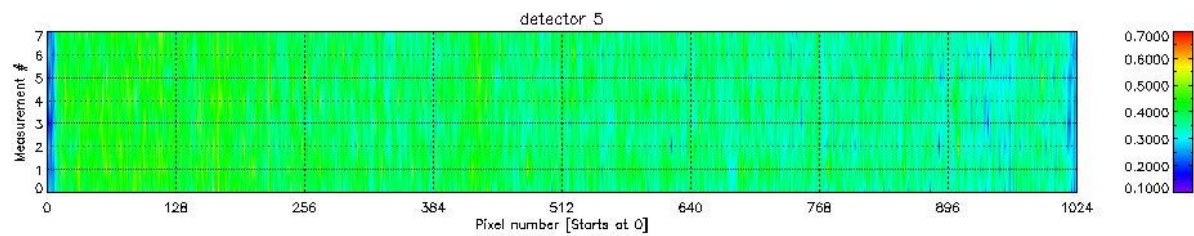
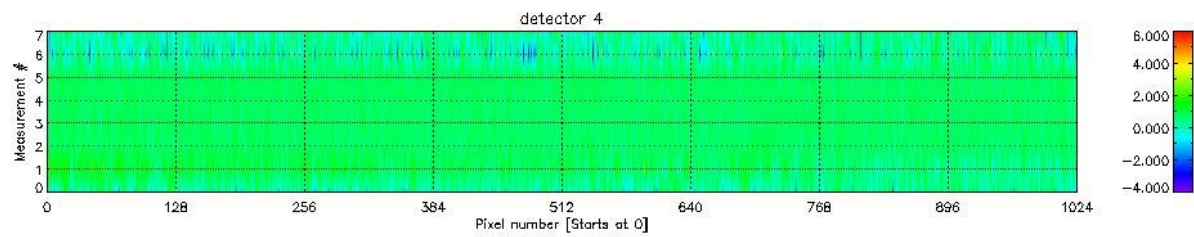
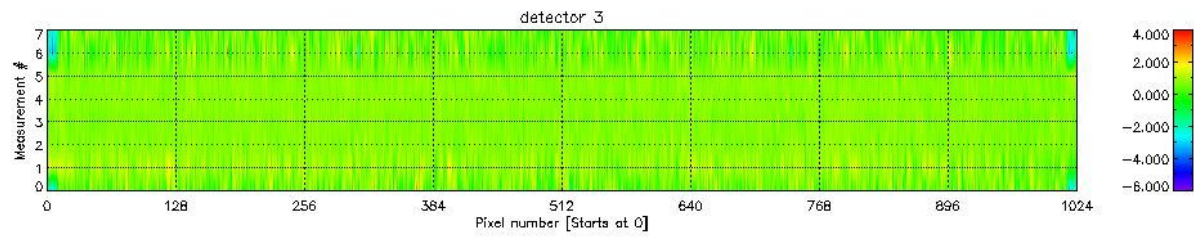
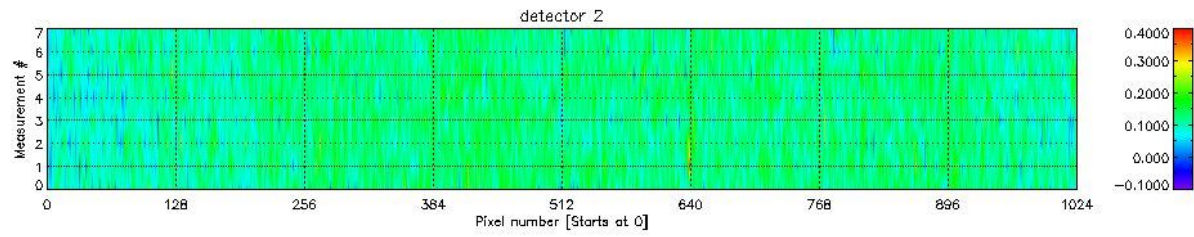
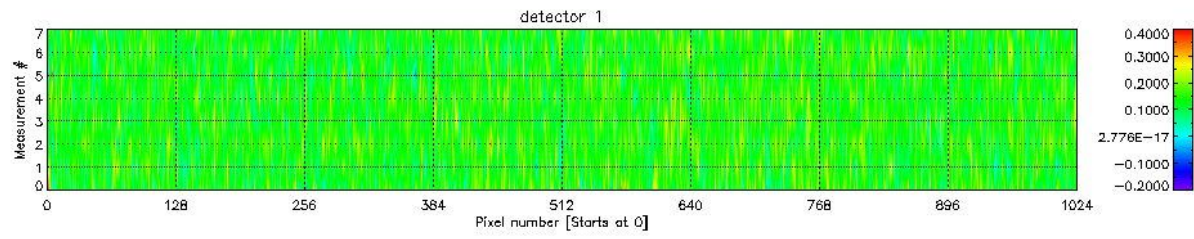
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0	06APR2008 03:07:23	1	0.323667
1	06APR2008 06:10:04	1	0.142500
2	06APR2008 06:18:41	1	0.232800
3	06APR2008 06:27:17	1	0.318400
4	06APR2008 07:52:08	1	0.172750
5	06APR2008 07:57:07	1	0.239250
6	06APR2008 08:05:30	1	0.287000
7	06APR2008 23:14:28	1	0.323667

Plots of SCINL1P_NEWLEA_obm_det_prmd temperatures vs time on 06APR2008.



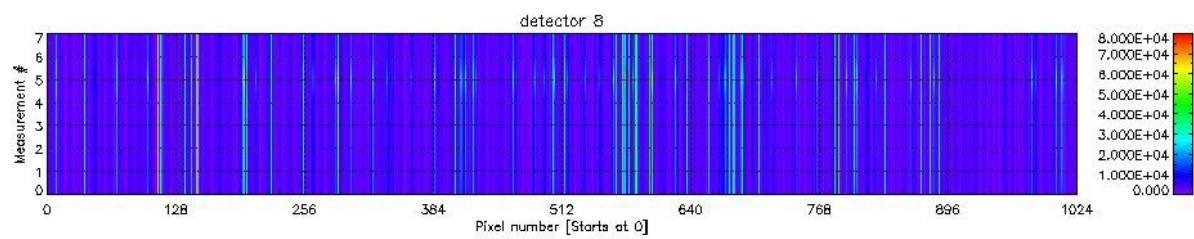
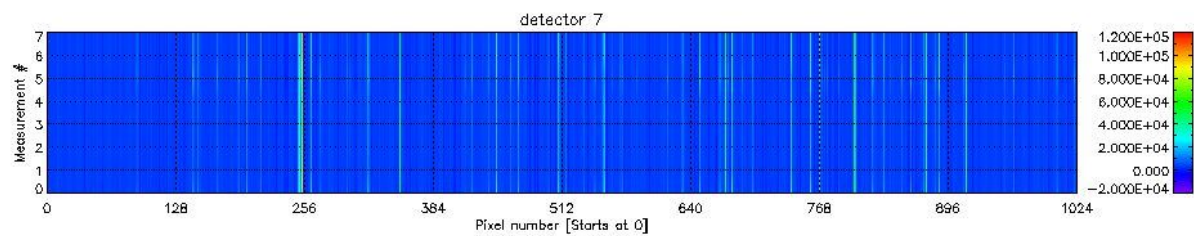
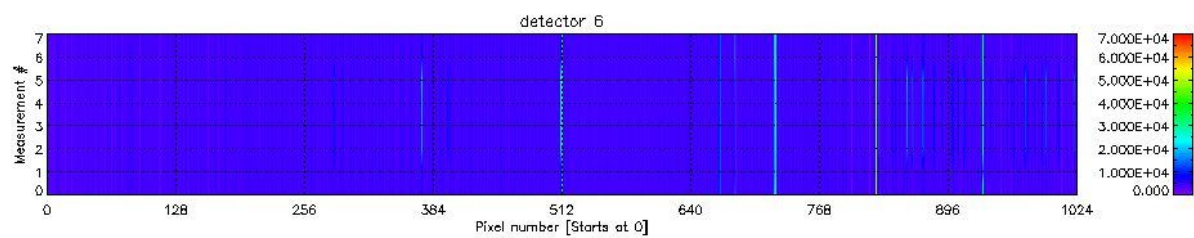
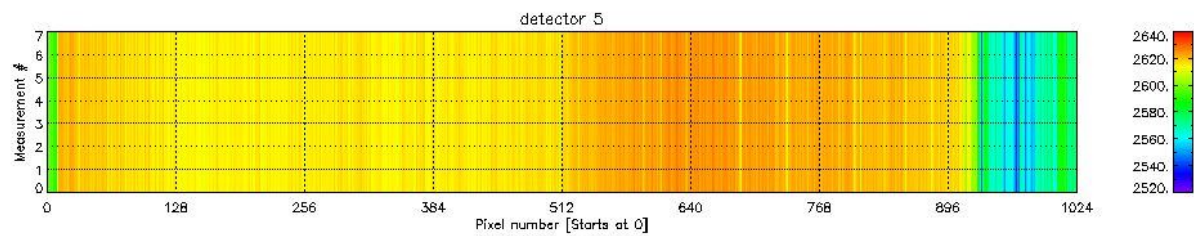
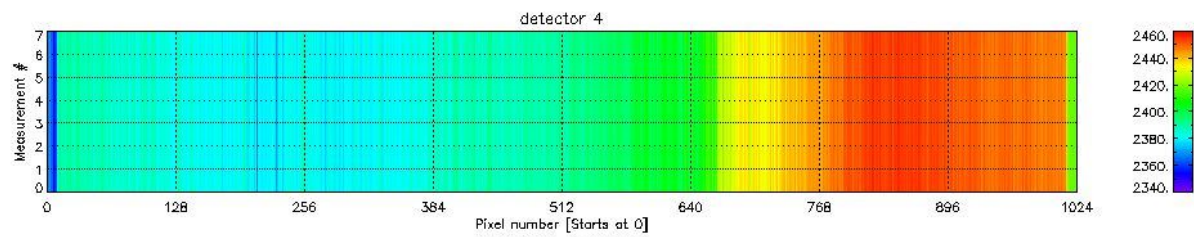
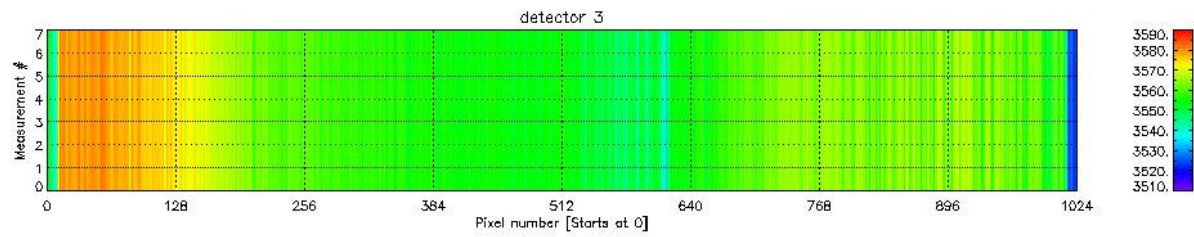
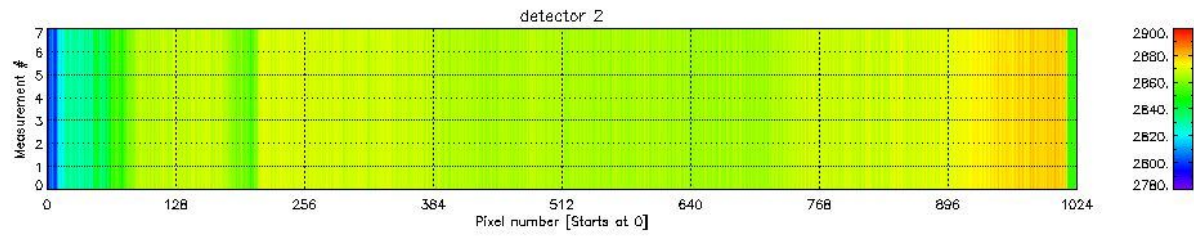
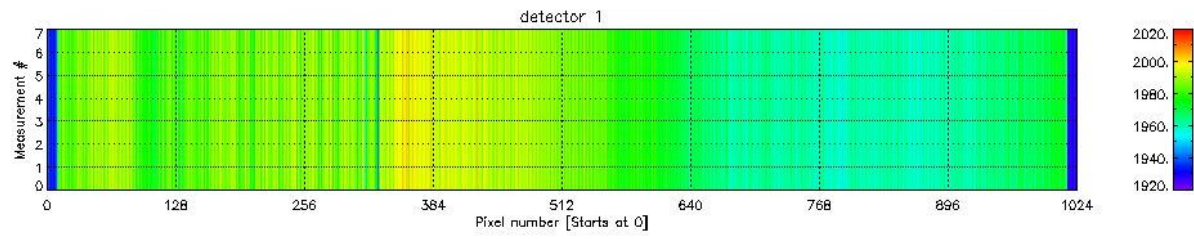
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_18.PNG

Plots of SCINLP_NEWLEA_leak_cur for various detectors on 06APR2008.
Colours indicate the value in BU/s.



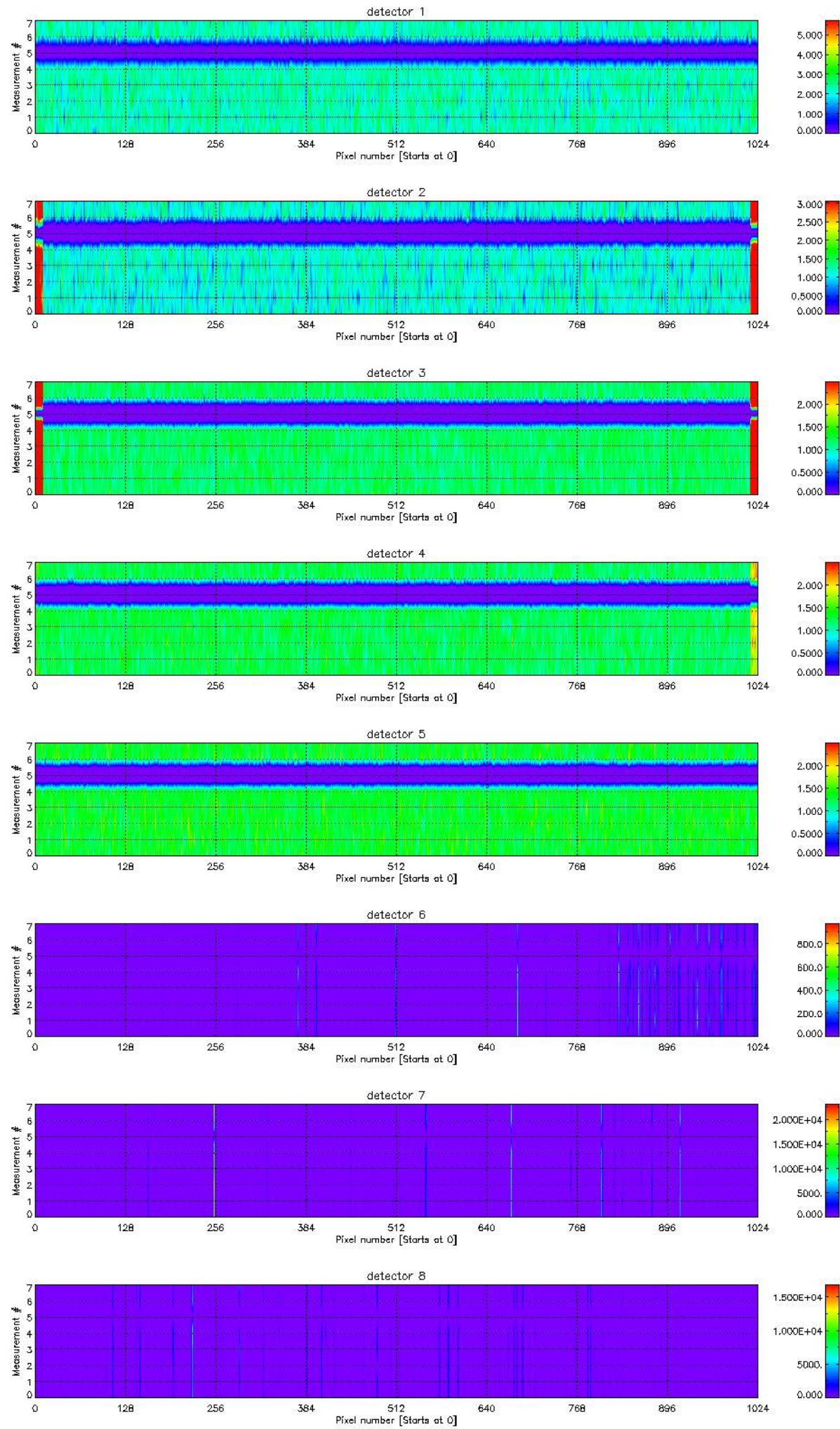
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_19.PNG

Plots of SCINLP_NEWLEA_fpn for various detectors on 06APR2008.
Colours indicate the value in BU.



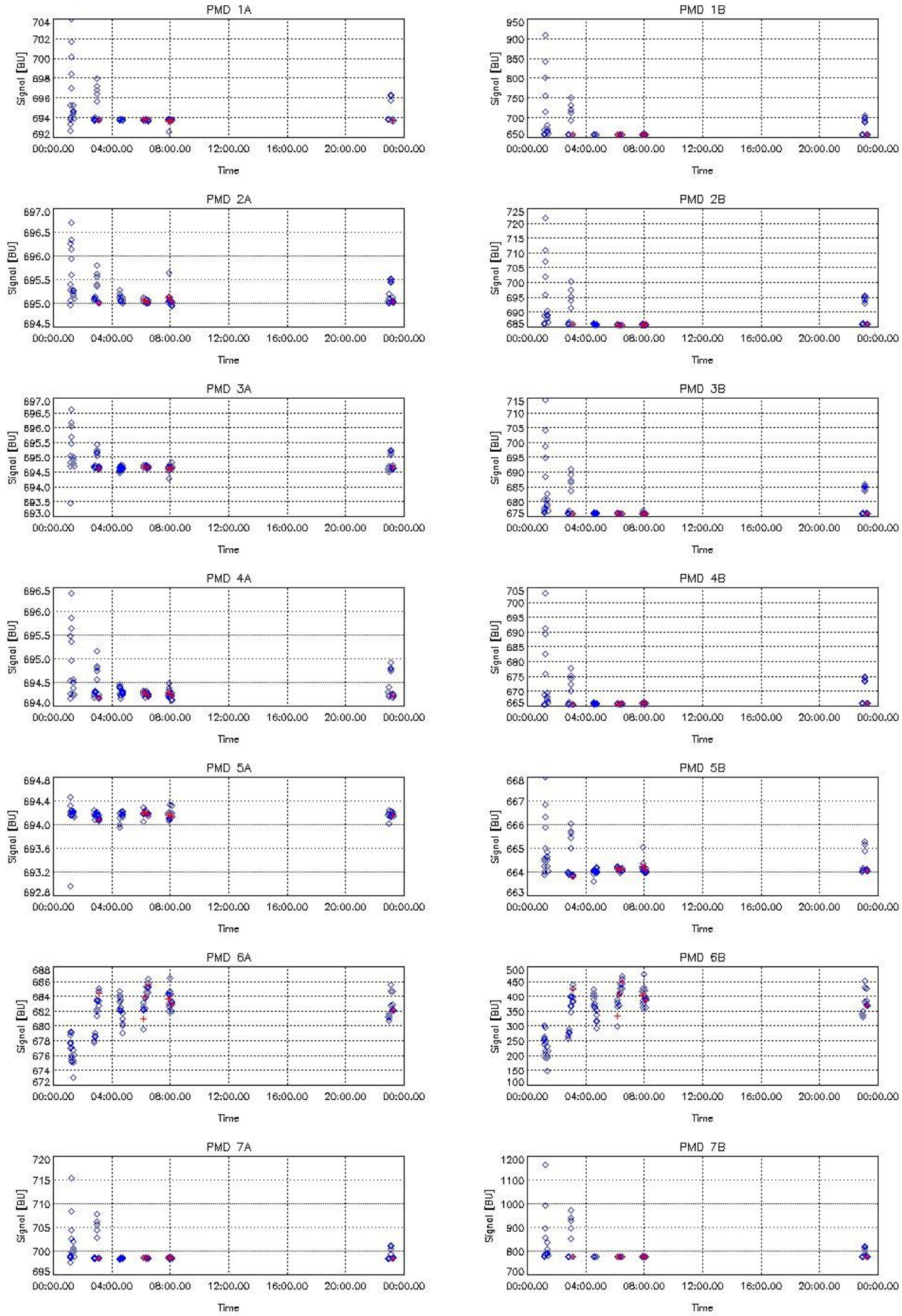
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_20.PNG

Plots of SCINLP_NEWLEA_mean_noise for various detectors on 06APR2008.
Colours indicate the value in BU.



sciamachy_daily_report_level1_SCIA_6_03_N_20080406_21.PNG

Plots of SCINL1P_NEWLEA_pmd_off vs time on 06APR2008 (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)

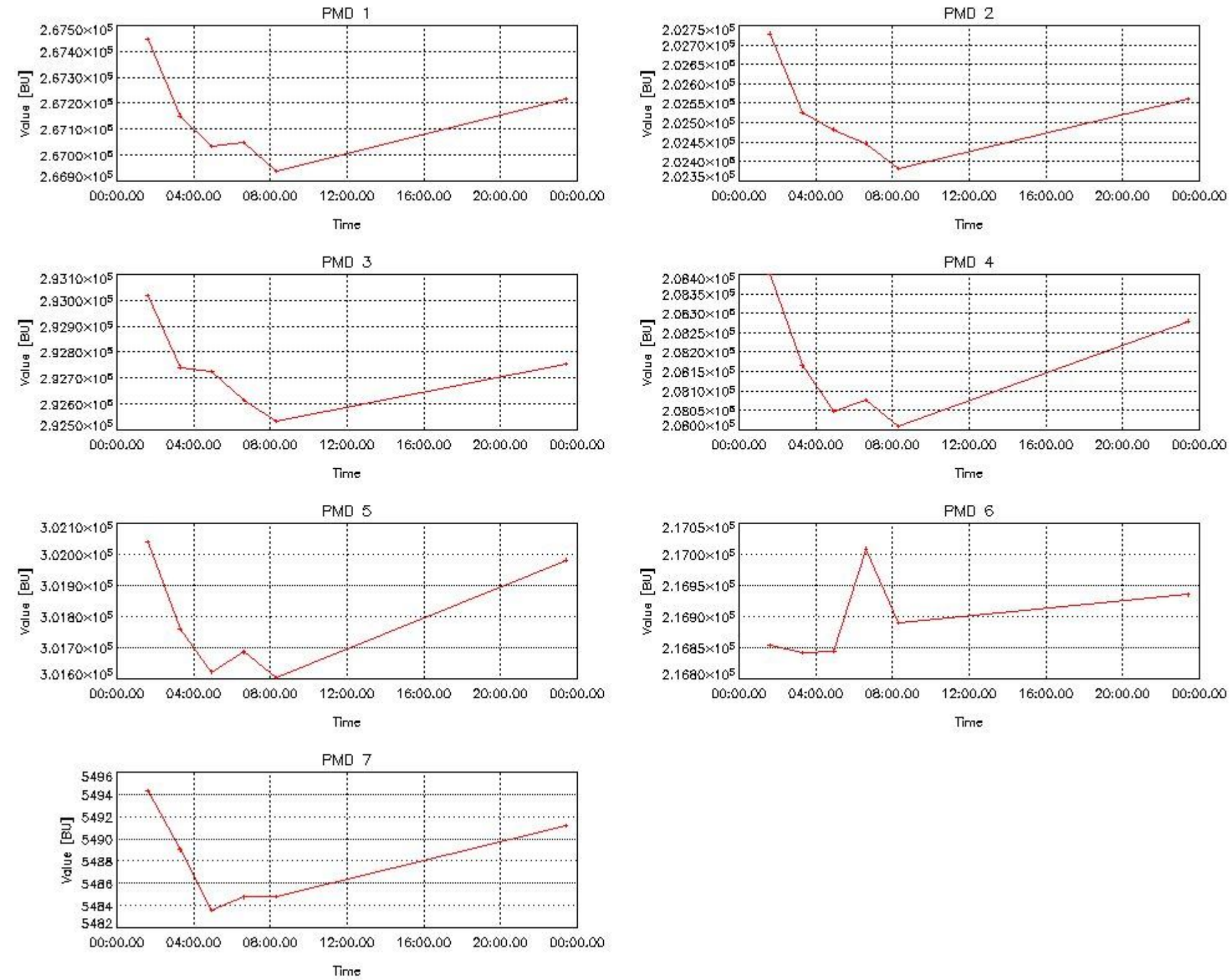
1.2.4 New sun reference spectrum parameters

This section lists properties of the new sun reference spectrum data within the processing scope.

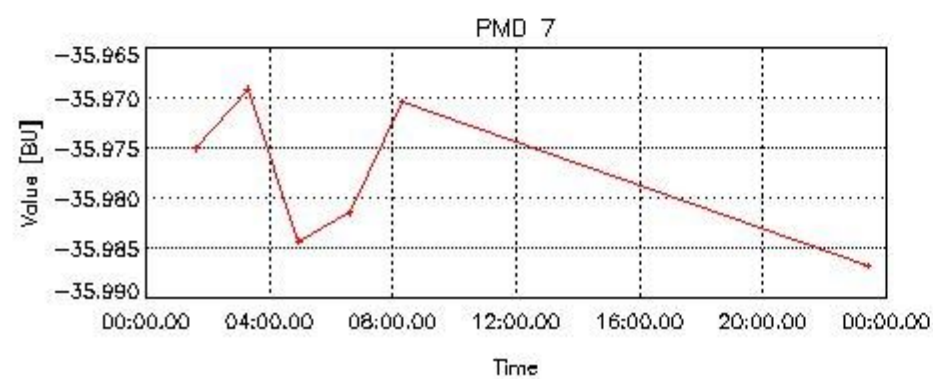
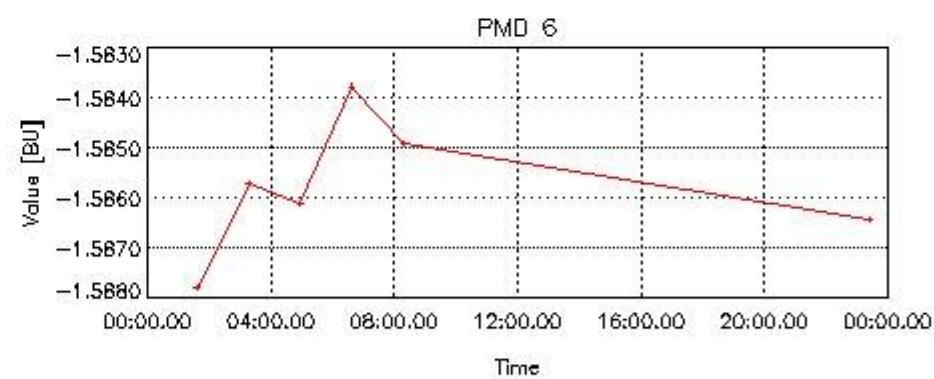
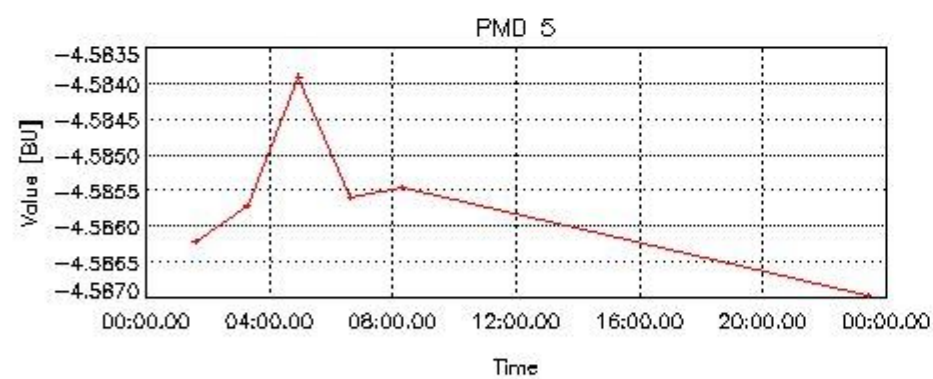
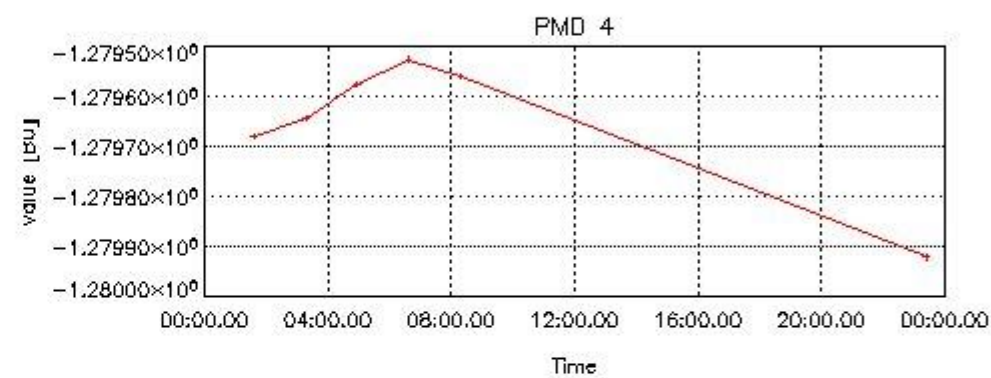
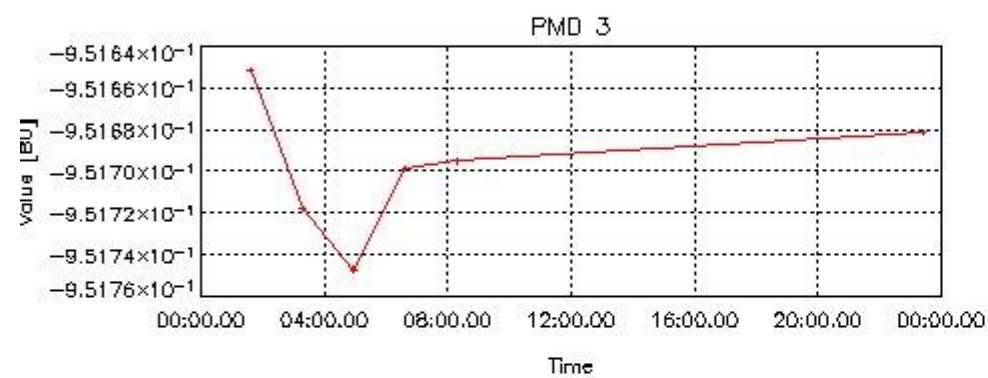
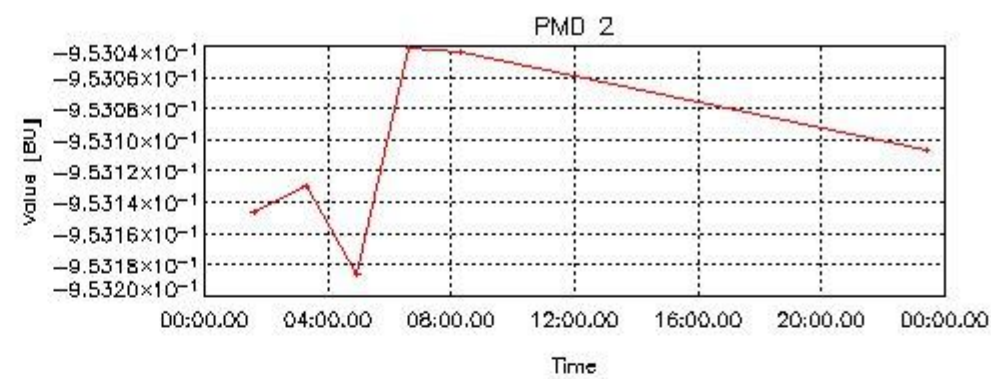
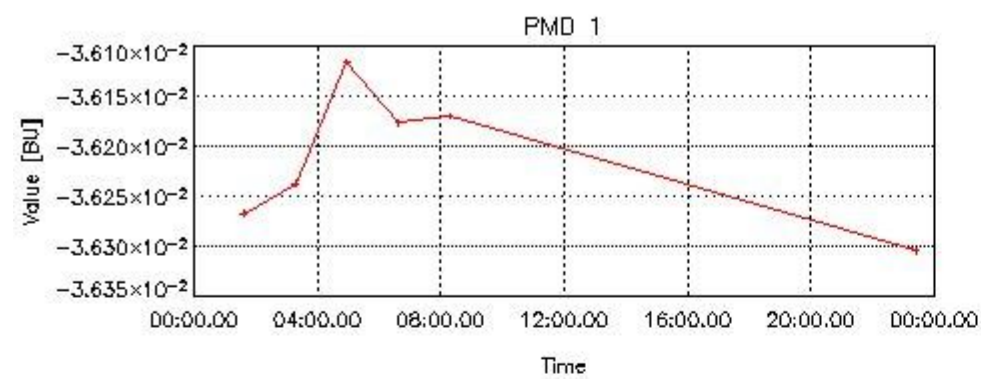
The following table shows the new sun reference measurement data characteristics.

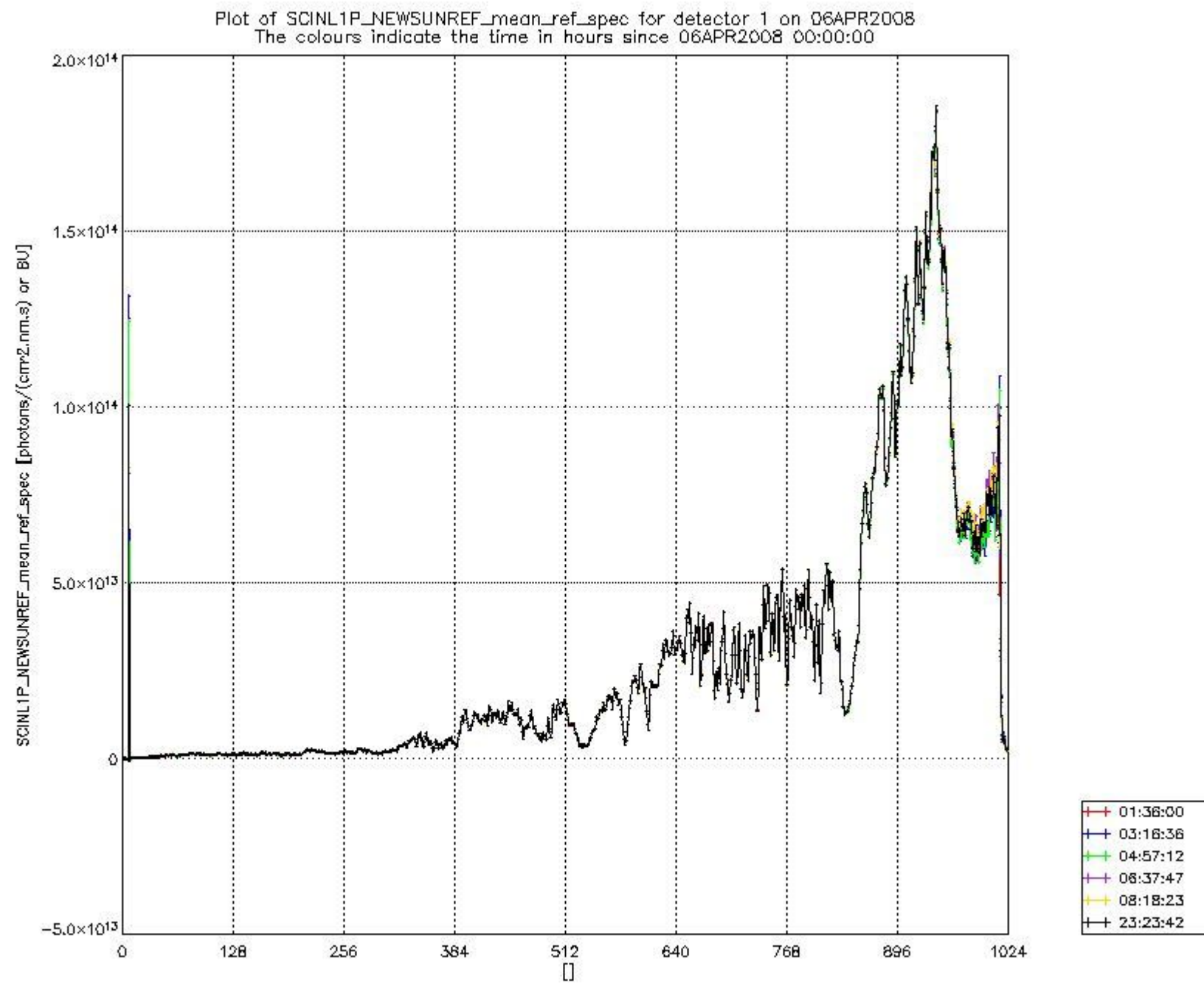
#	dsr_time	attach	ID	NDF	az [deg]	el [deg]	solar_el [deg]	Doppler 500nm [nm]
0	06APR2008 01:36:00	0	O	1	-30.2784	-11.7774	0.00000	0.0100497
		0	U	1	-30.2784	-11.7774	0.00000	0.0100497
1	06APR2008 03:16:36	0	O	1	-30.2850	-11.7770	0.00000	0.0100510
		0	U	1	-30.2850	-11.7770	0.00000	0.0100510
2	06APR2008 04:57:12	0	O	1	-30.2922	-11.7758	0.00000	0.0100528
		0	U	1	-30.2922	-11.7758	0.00000	0.0100528
3	06APR2008 06:37:47	0	O	1	-30.2992	-11.7748	0.00000	0.0100545
		0	U	1	-30.2992	-11.7748	0.00000	0.0100545
4	06APR2008 08:18:23	0	O	1	-30.3060	-11.7742	0.00000	0.0100560
		0	U	1	-30.3060	-11.7742	0.00000	0.0100560
5	06APR2008 23:23:42	0	O	1	-30.3673	-11.7732	0.00000	0.0100682
		0	U	1	-30.3673	-11.7732	0.00000	0.0100682

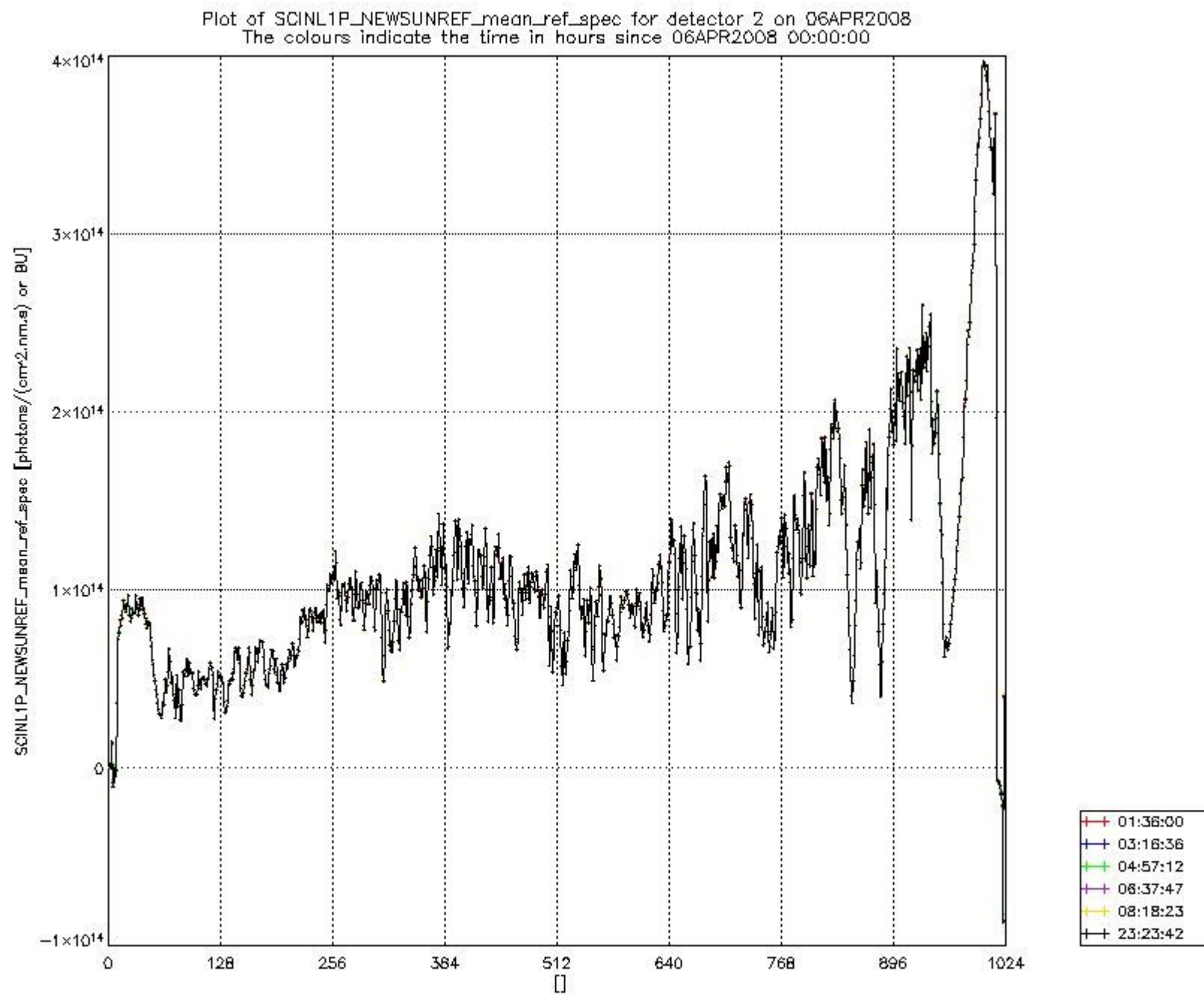
Plot of SCINL1P_NEWSUNREF_mean_prnd versus time

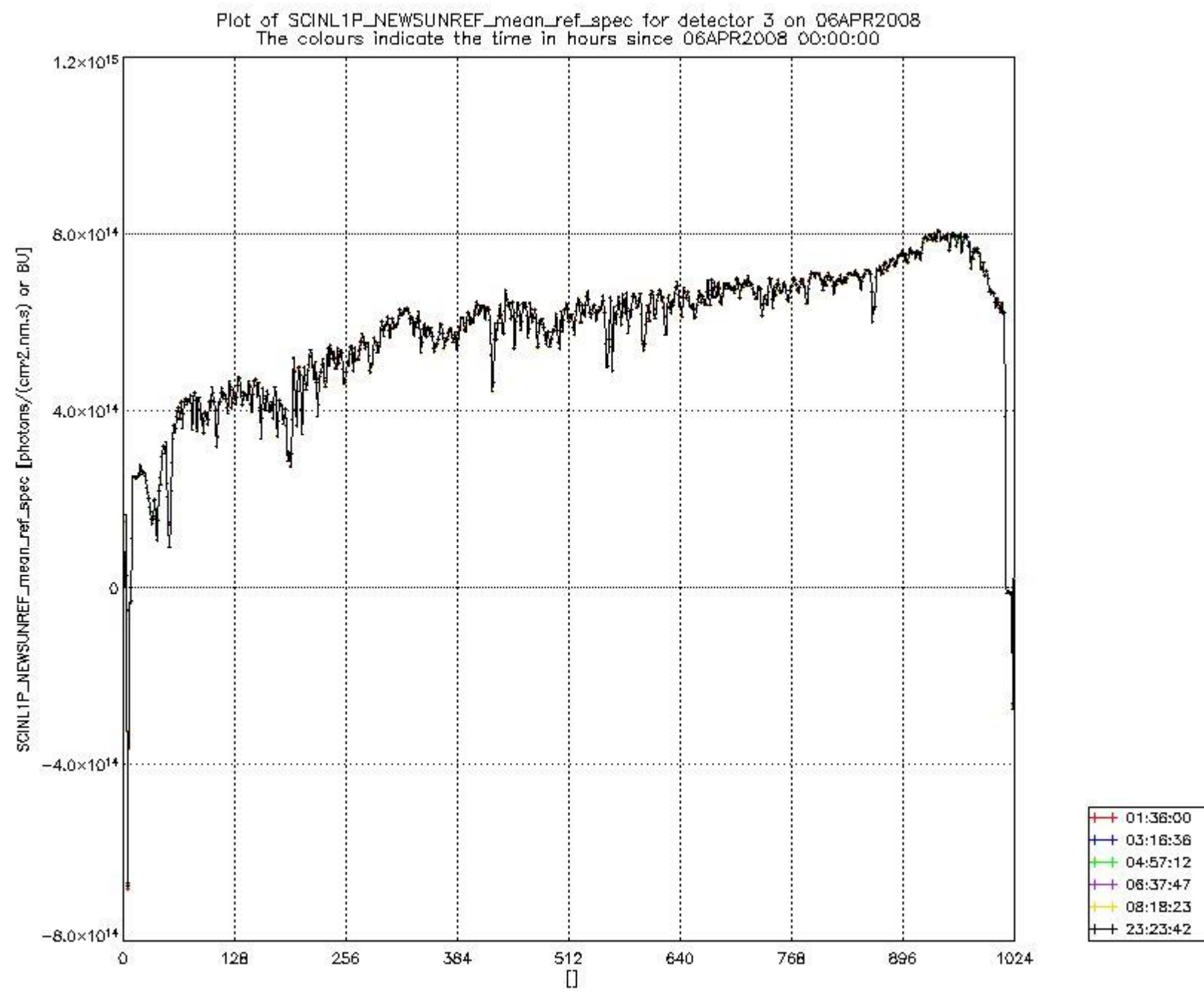


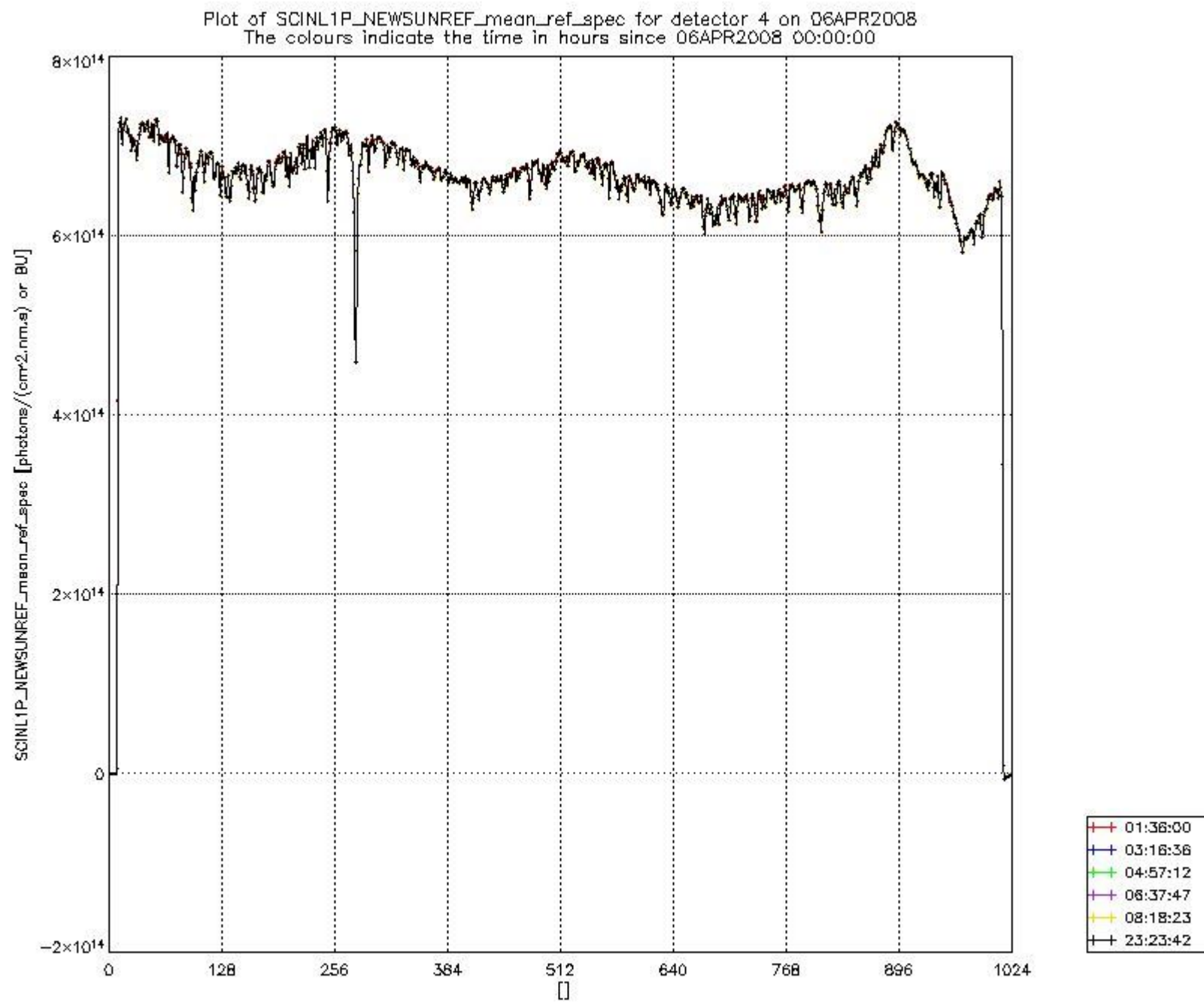
Plot of SCINL1P_NEWSUNREF_pmd_out versus time

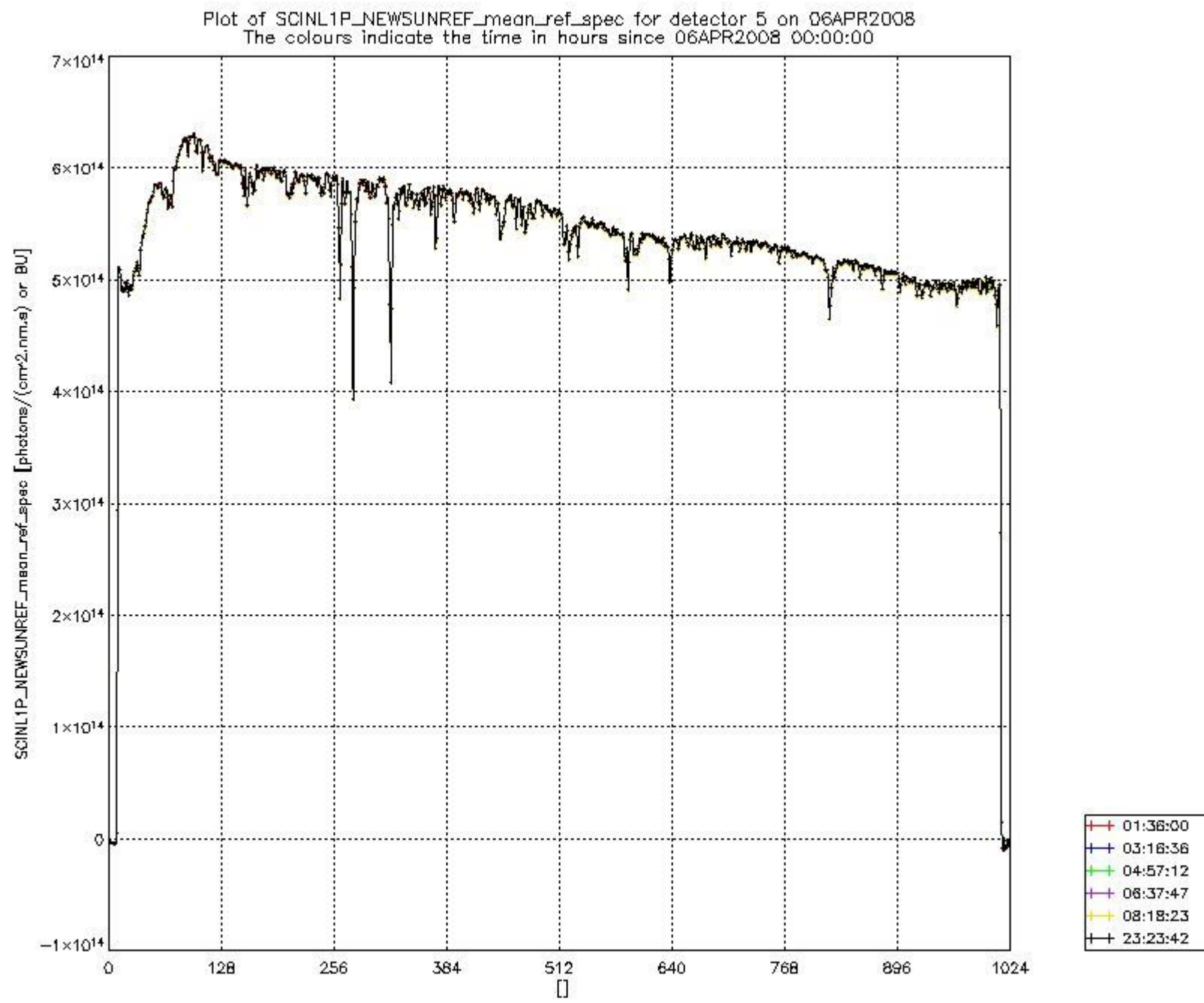


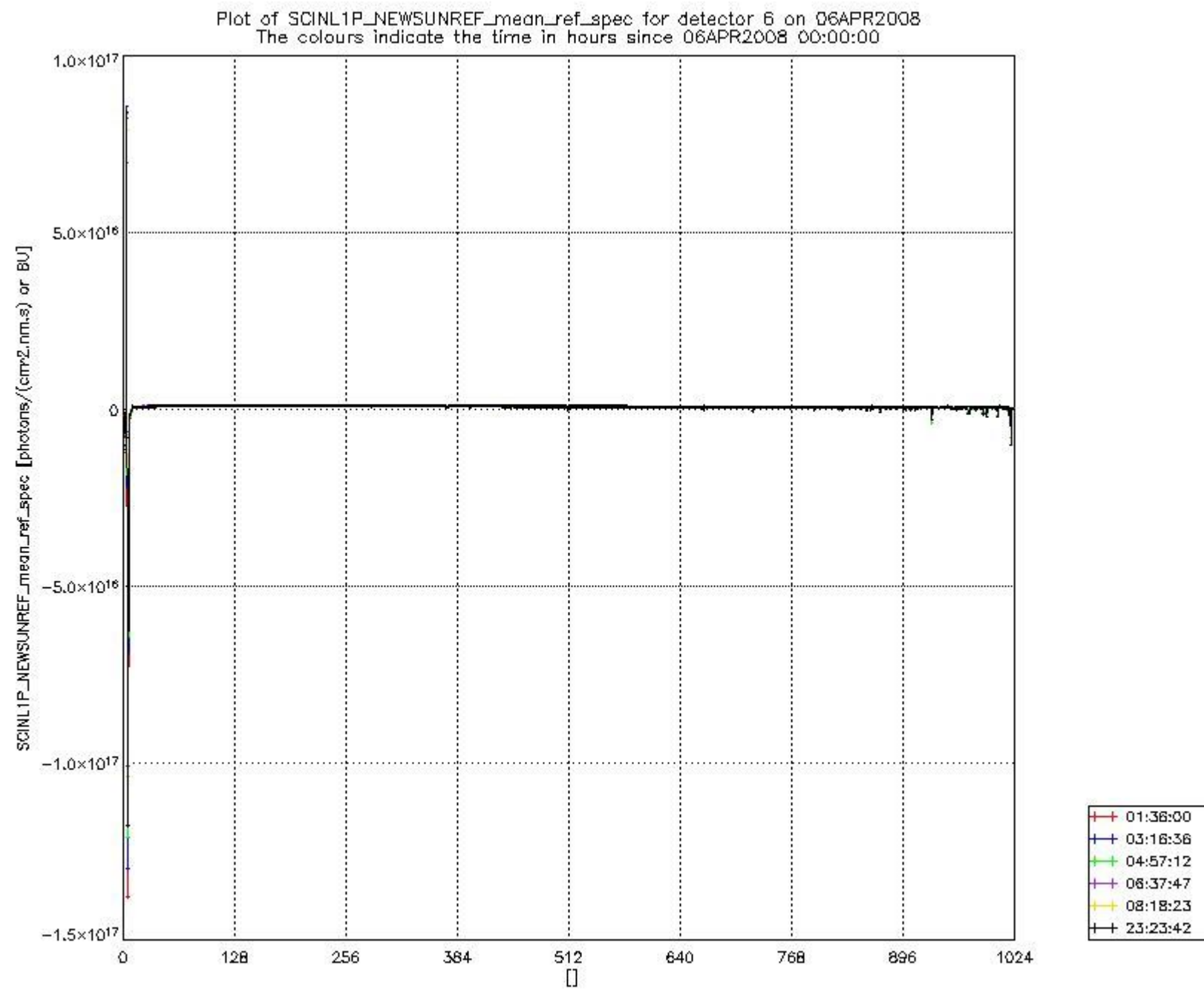


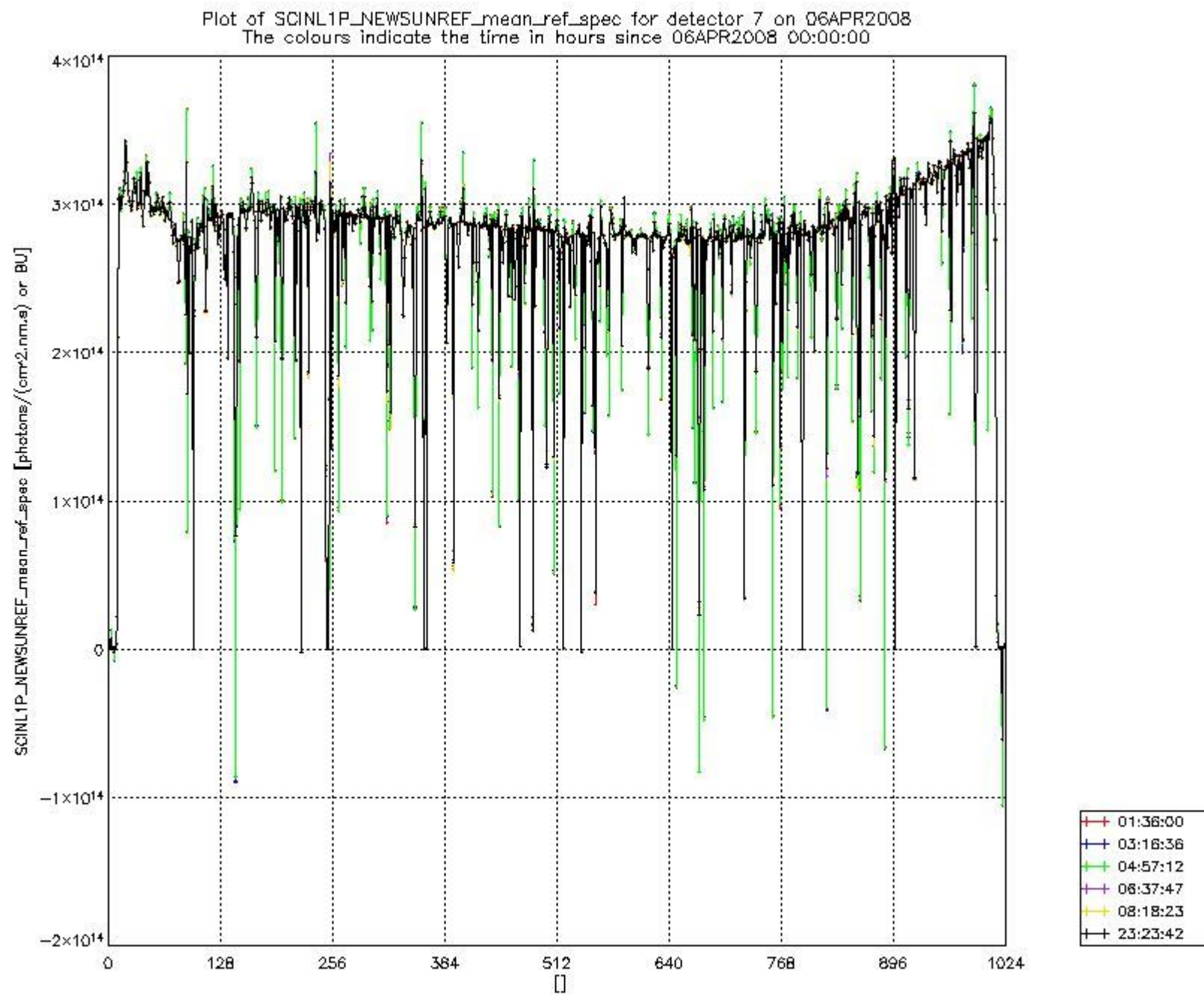


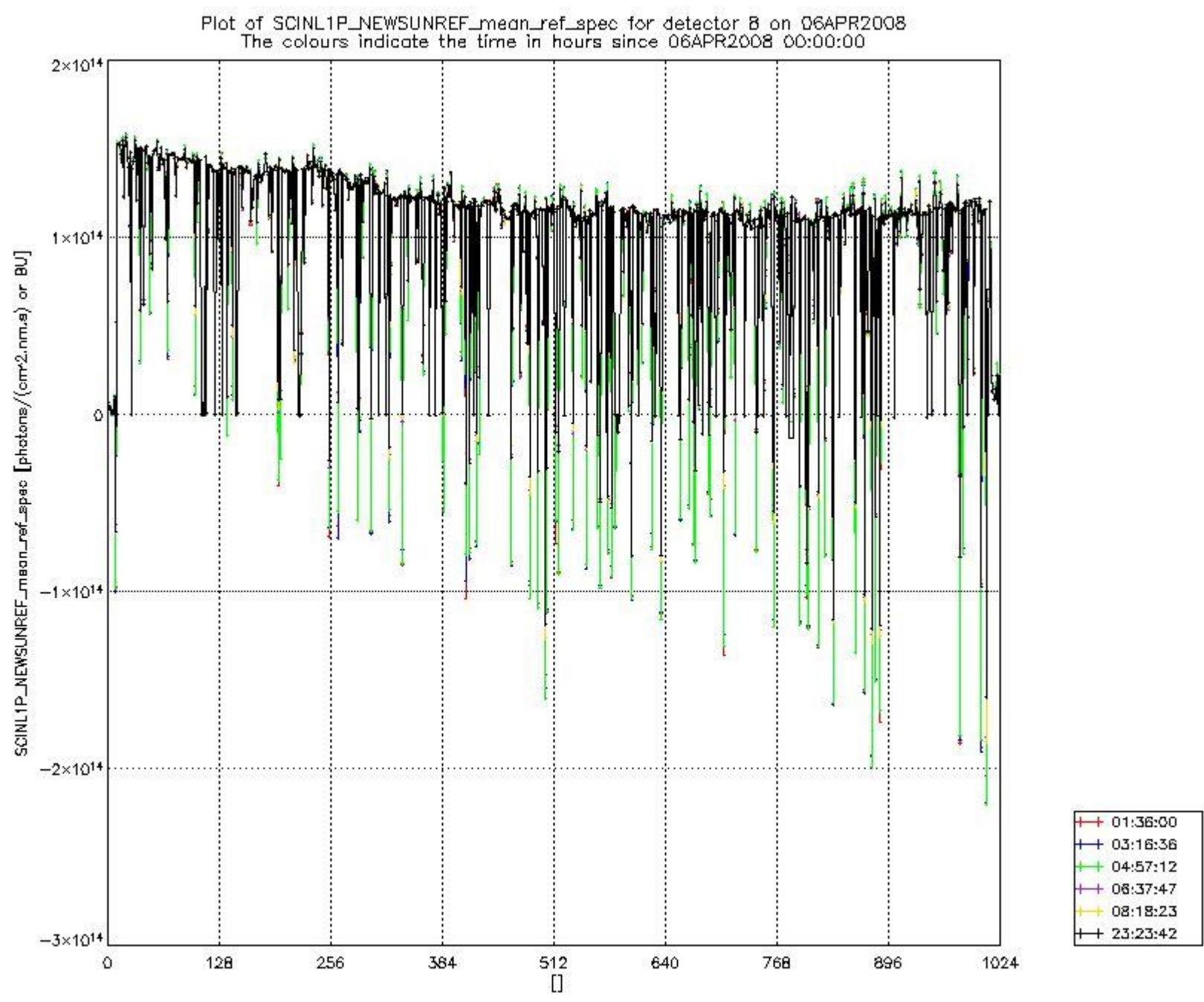












sciamachy_daily_report_level1_SCIA_6_03_N_20080406_32.PNG

1.2.5 PPG and Etalon parameters

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

1.3 ADF monitoring

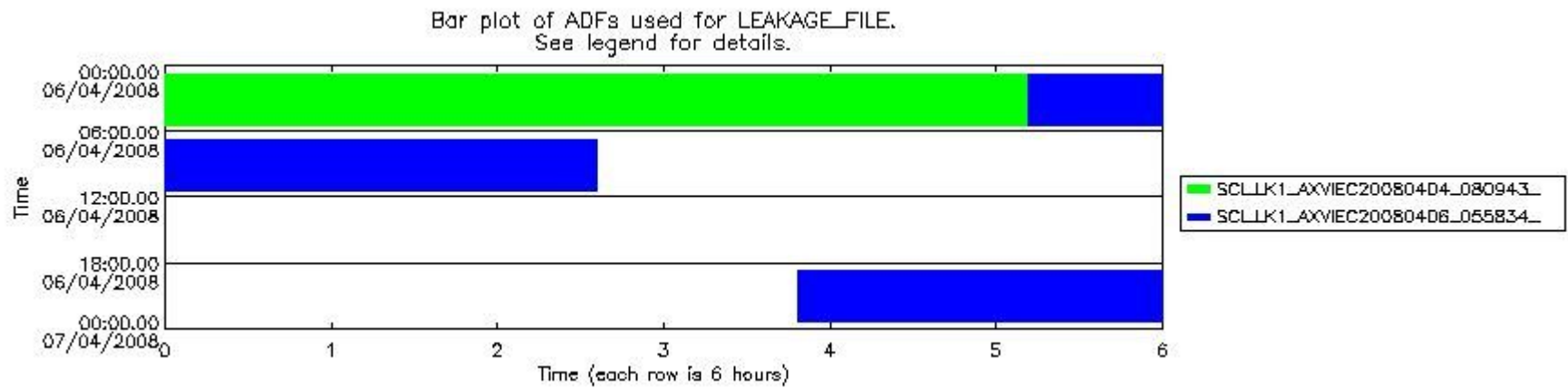
This section shows the (variation in) ADFs used for each of the products. It consists of:

- 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.

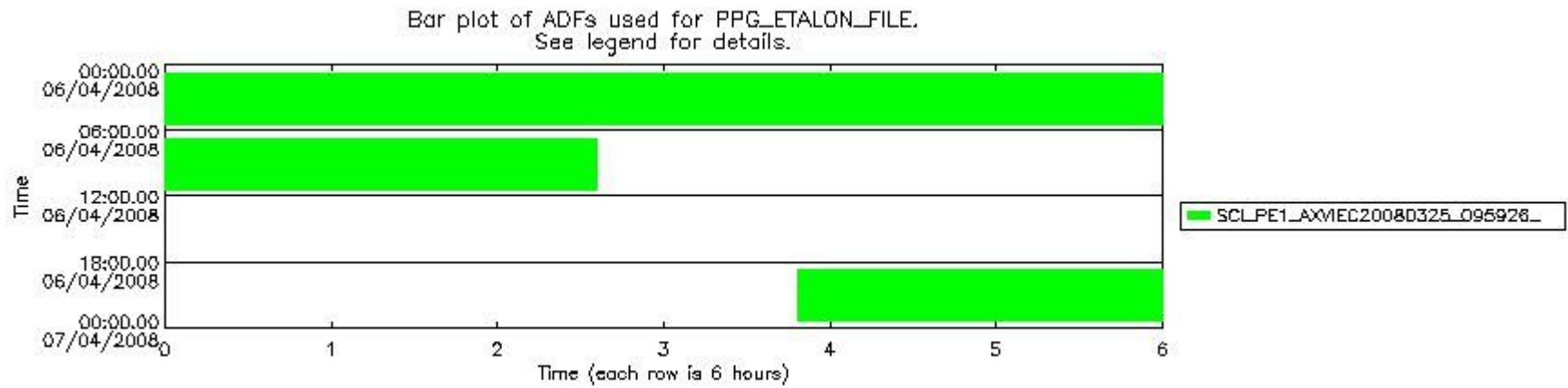
No new ADFs available

Number	ADF
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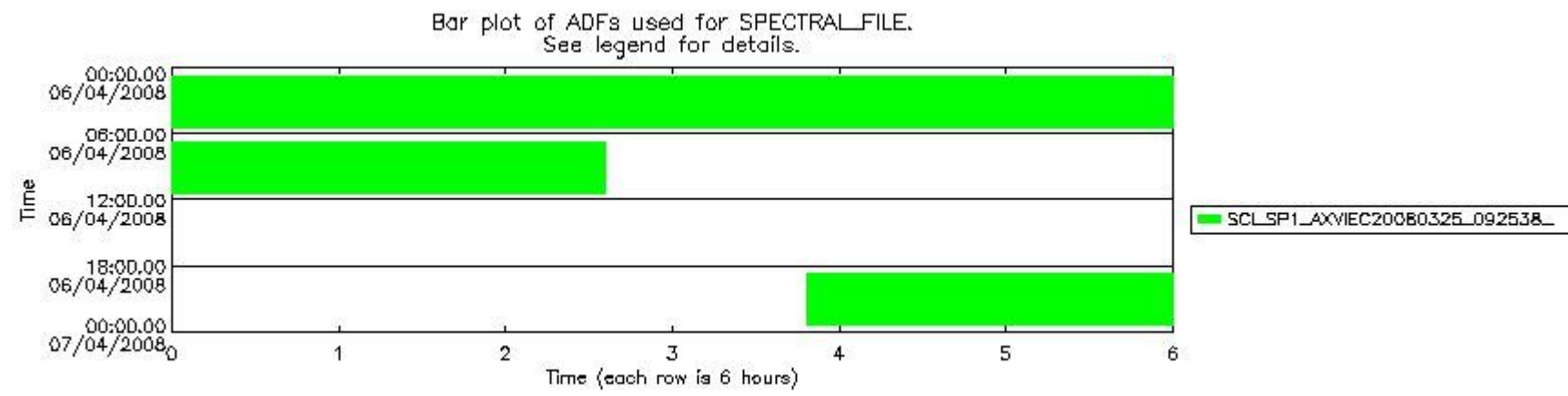
	LK1 (LEAKAGE_FILE)
0	SCI_LK1_AXVIEC20080404_080943_20080401_160457_20080531_174422
1	SCI_LK1_AXVIEC20080406_055834_20080403_100858_20080602_114934
	PE1 (PPG_ETALON_FILE)
2	SCI_PE1_AXVIEC20080325_095926_20080320_172212_20990101_000000
	SP1 (SPECTRAL_FILE)
3	SCI_SP1_AXVIEC20080325_092538_20080320_203845_20080618_222427
	SU1 (SUN_REF_FILE)
4	SCI_SU1_AXVIEC20080404_063453_20080401_160457_20080416_174422
5	SCI_SU1_AXVIEC20080406_030911_20080402_171302_20080417_185338
	KD1 (KEY_DATA_FILE)
6	SCI_KD1_AXVIEC20060523_182626_20020301_000000_20991231_235959
	MF1 (M_FACTOR_FILE)
7	SCI_MF1_AXVIEC20020809_094925_20020206_173831_20991231_235959
	LI1 (INIT_FILE)
8	SCI_LI1_AXVIEC20070628_134108_20020701_000000_20991231_235959
	FRO (ORBIT_FILE)
9	DOR_NAV_0PNPDE20080405_222027_000057382067_00273_31890_5351.N1
10	DOR_NAV_0PNPDE20080406_000124_000060572067_00274_31891_5352.N1
11	DOR_NAV_0PNPDE20080406_014740_000057382067_00275_31892_5353.N1
12	DOR_NAV_0PNPDE20080406_214827_000057382067_00287_31904_5355.N1
13	DOR_NAV_0PNPDK20080406_050934_000060572067_00277_31894_6513.N1
14	DOR_NAV_0PNPDK20080406_065550_000054192067_00278_31895_6514.N1
	ATT (ATTITUDE_FILE)
15	NOT USED



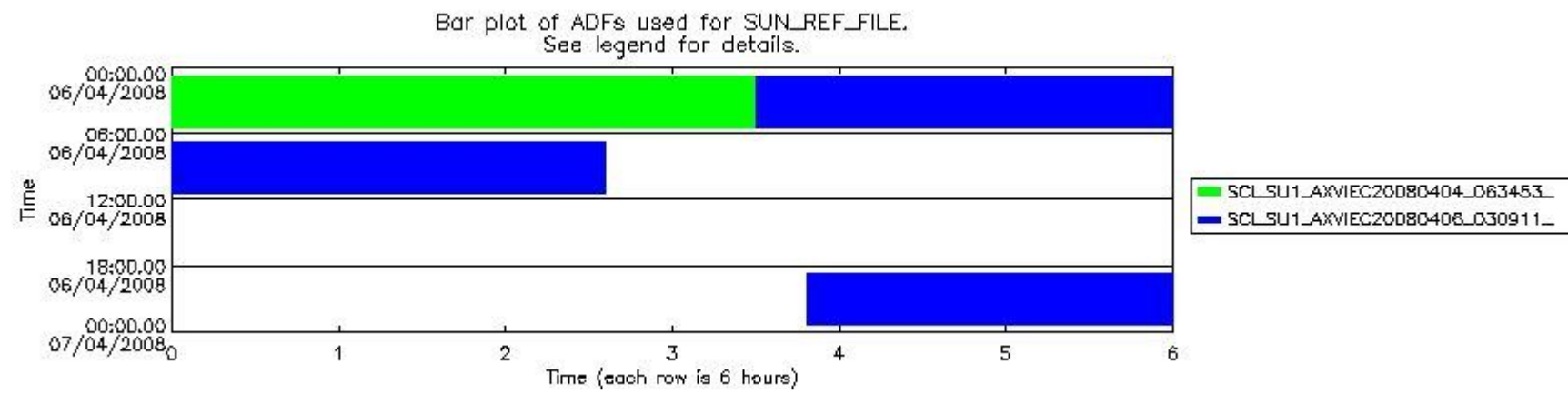
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_33.PNG



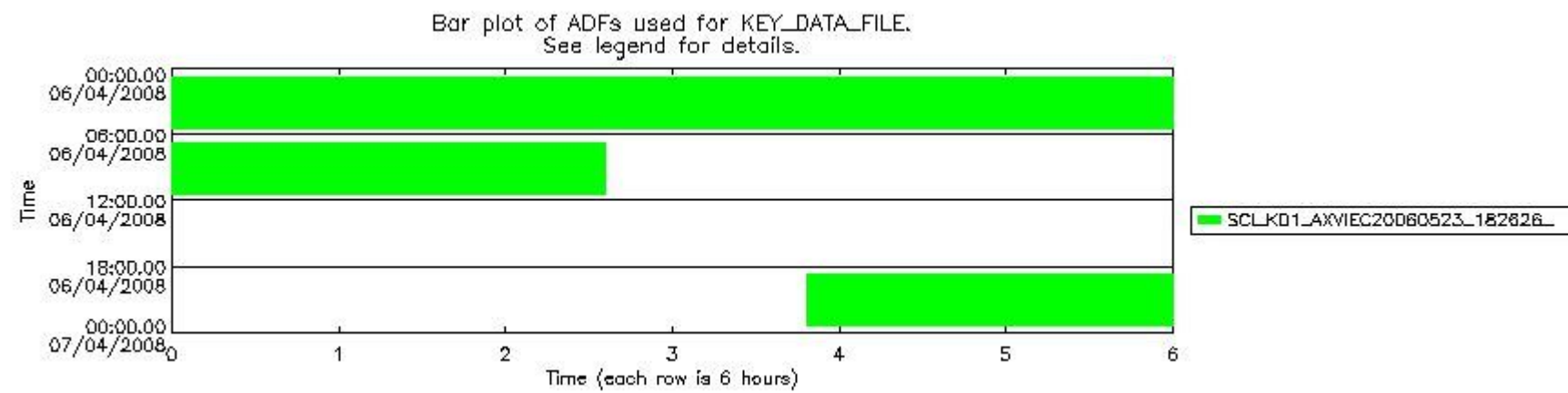
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_34.PNG



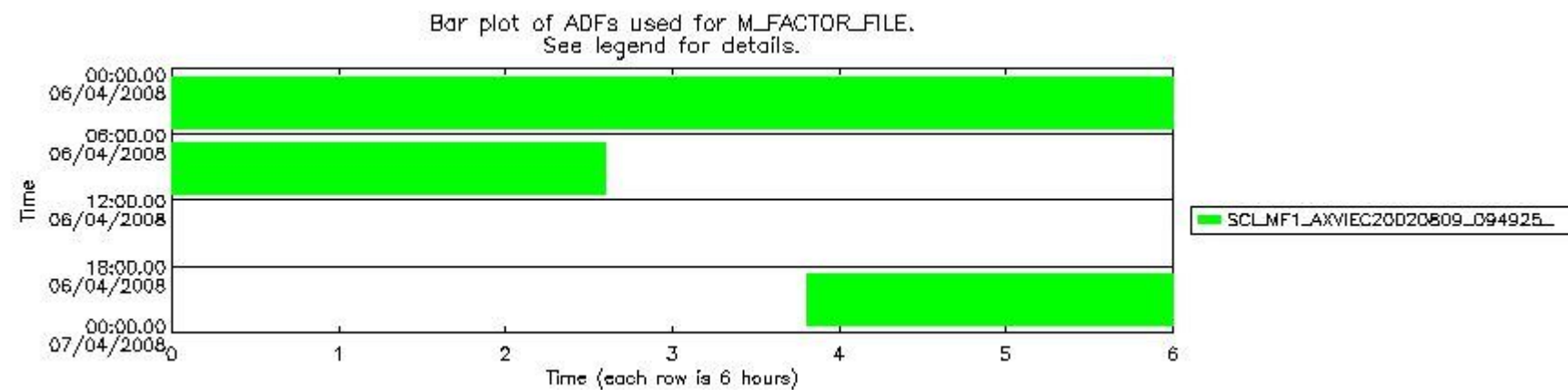
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_35.PNG



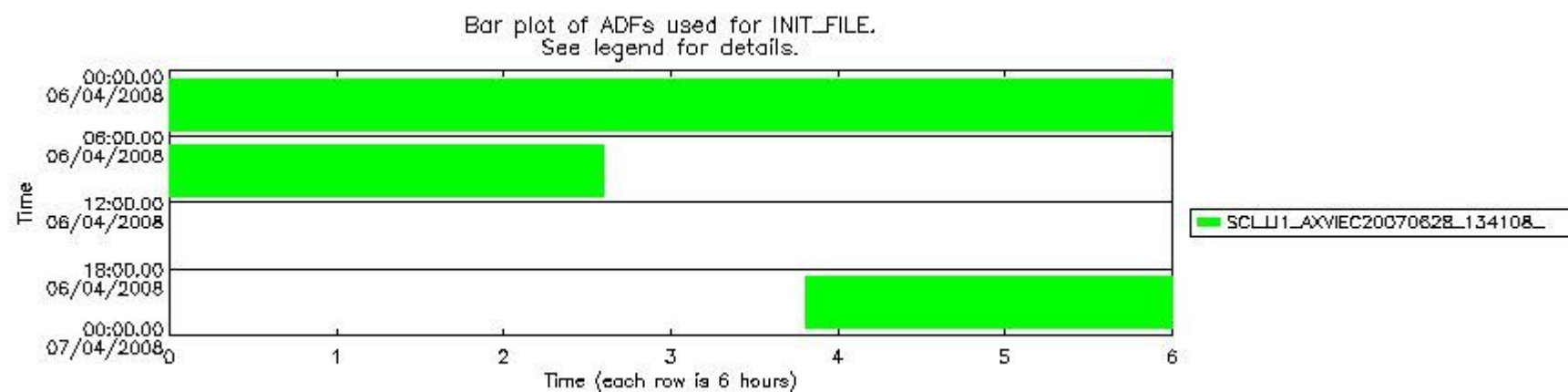
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_36.PNG



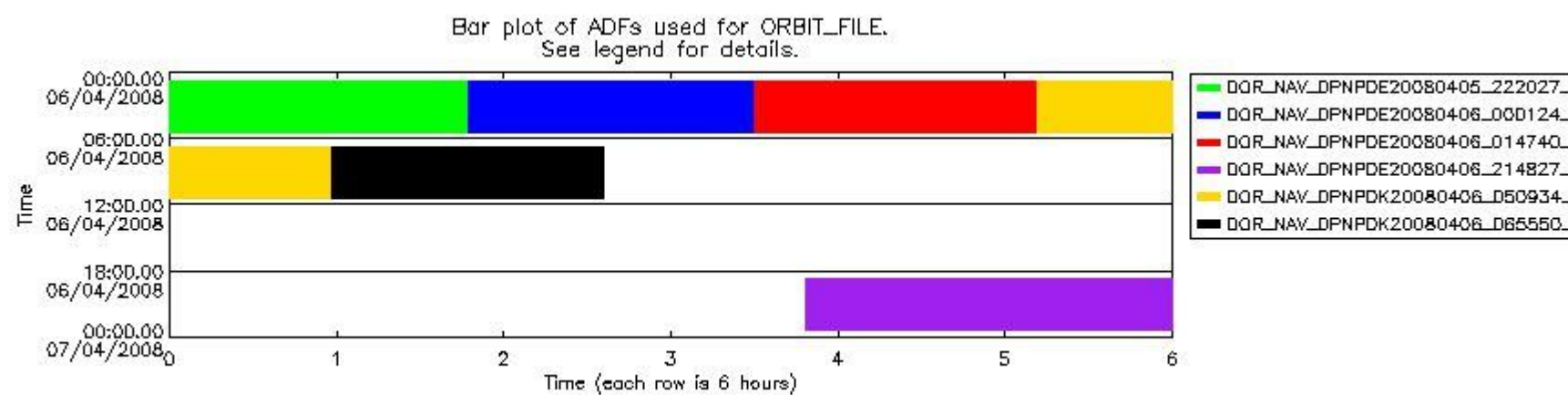
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_37.PNG



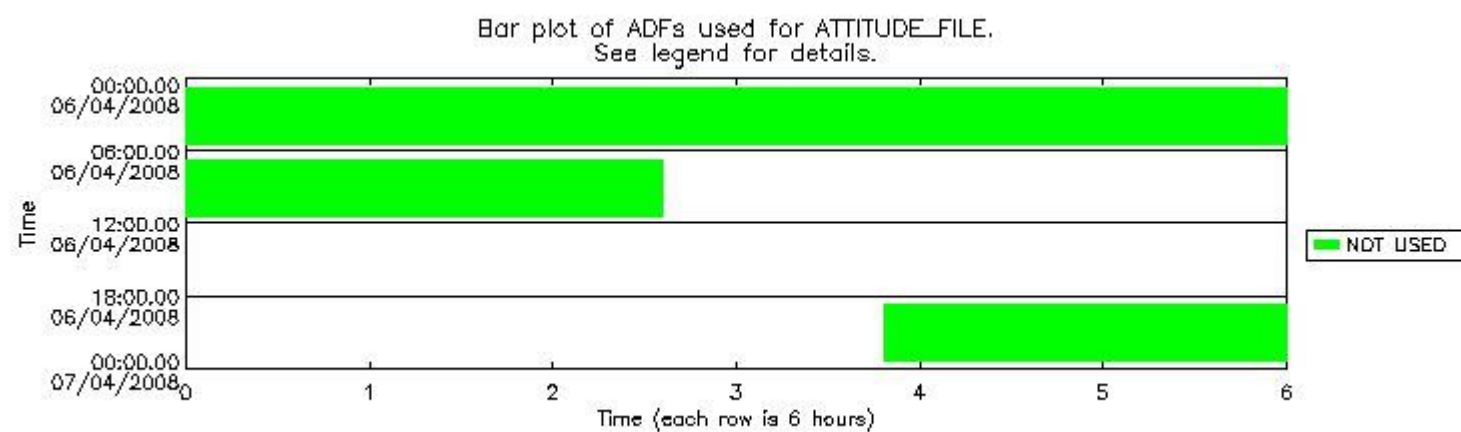
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_38.PNG



sciamachy_daily_report_level1_SCIA_6_03_N_20080406_39.PNG



sciamachy_daily_report_level1_SCIA_6_03_N_20080406_40.PNG



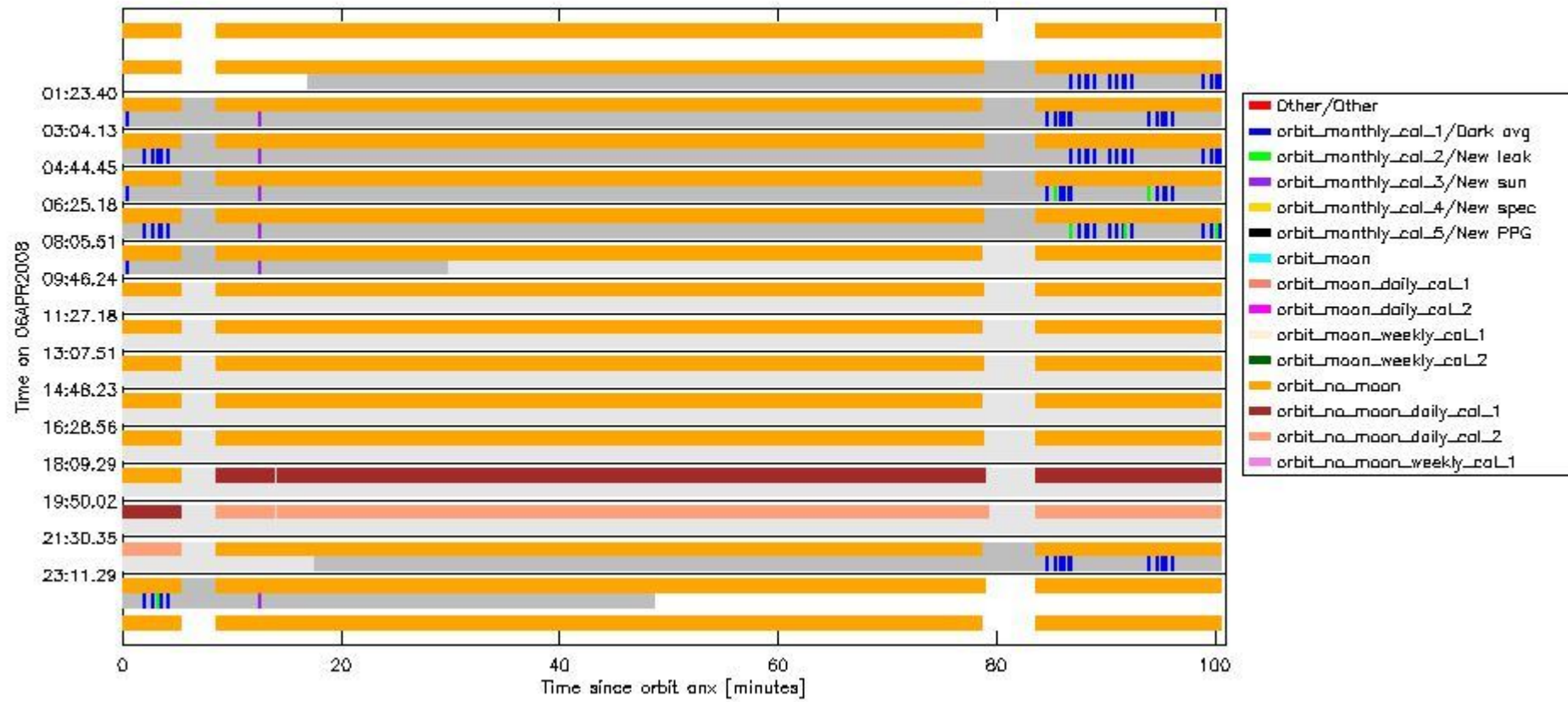
sciamachy_daily_report_level1_SCIA_6_03_N_20080406_41.PNG

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.

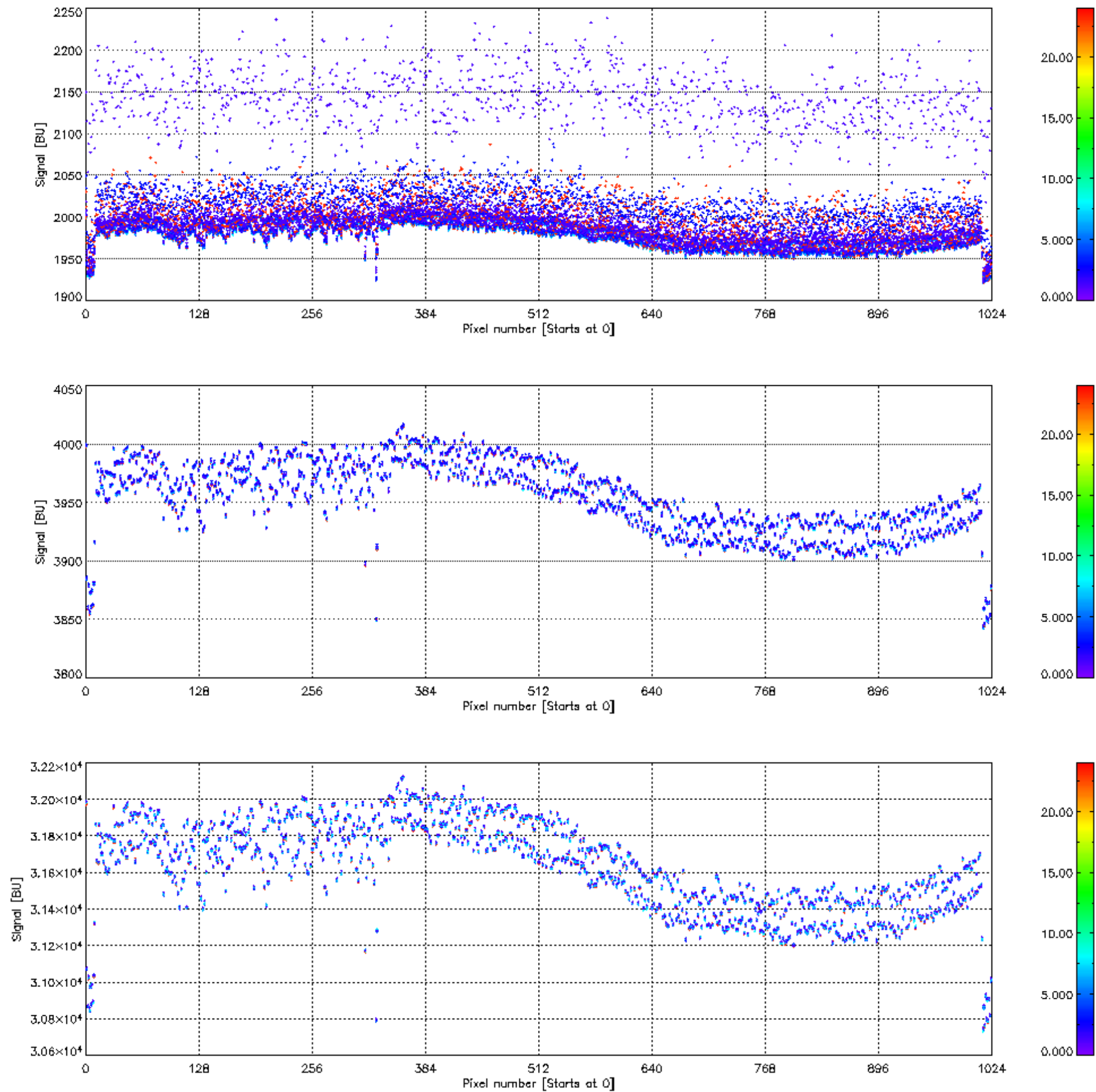
The following plot gives an overview of planned activities and actual special measurements in the Level 1 products. The planning is taken from the DMOP files, and interpreted using information from OSDF files.

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 06APR2008.
 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.

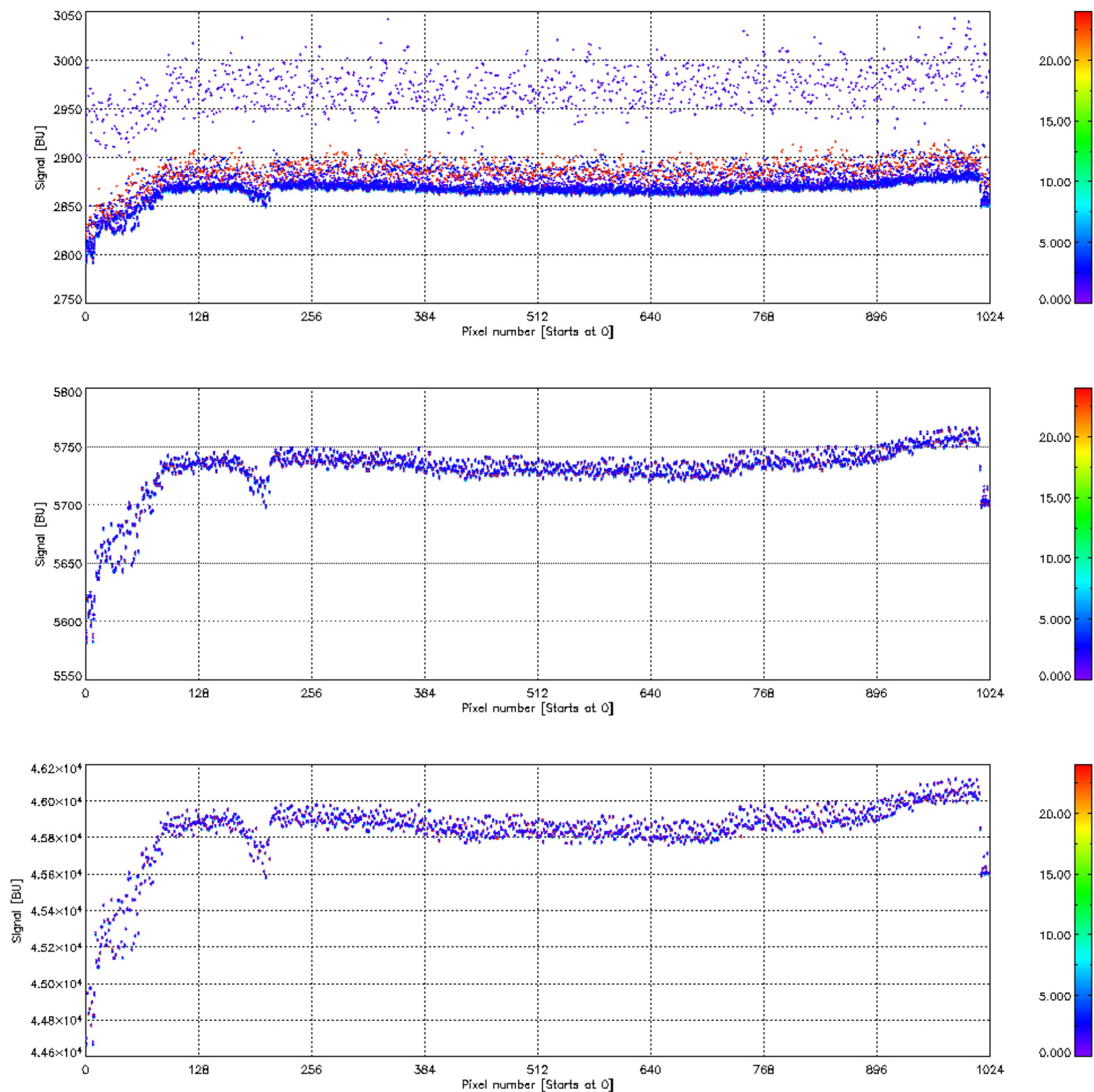


sciamachy_daily_report_level1_SCIA_6_03_N_20080406_42.PNG

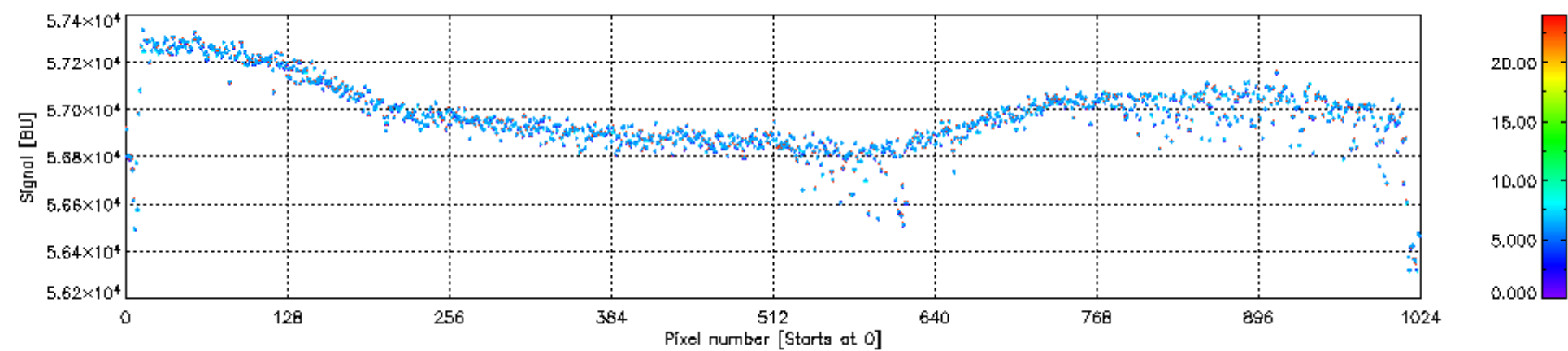
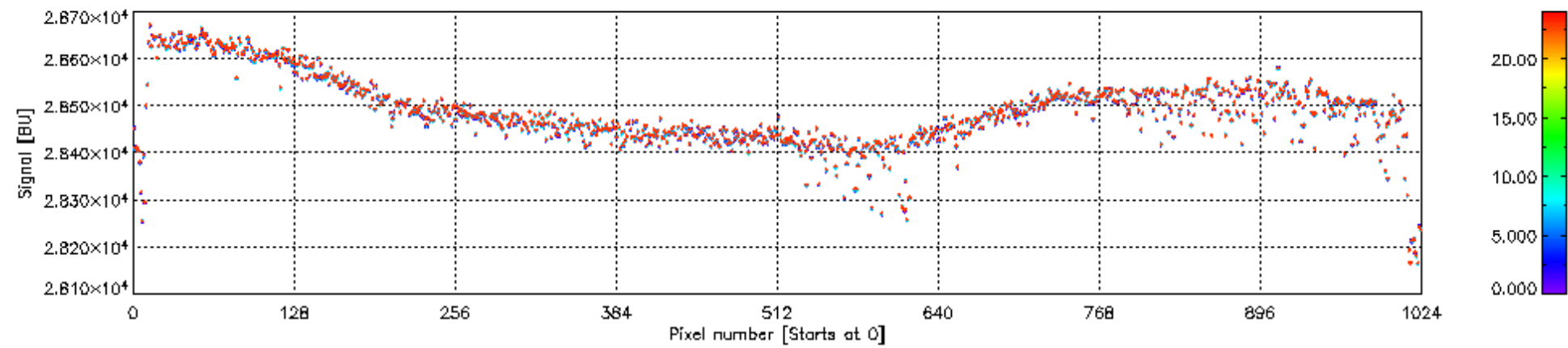
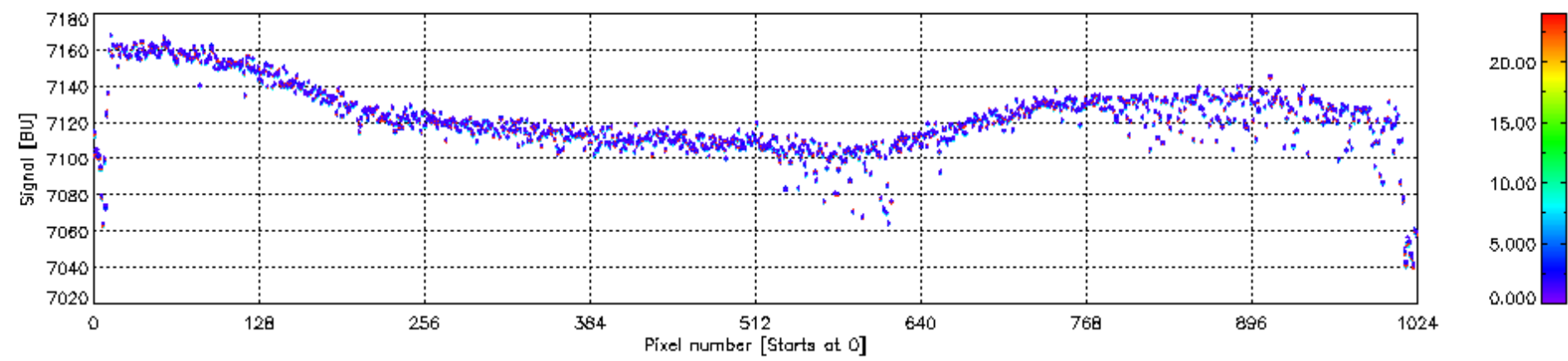
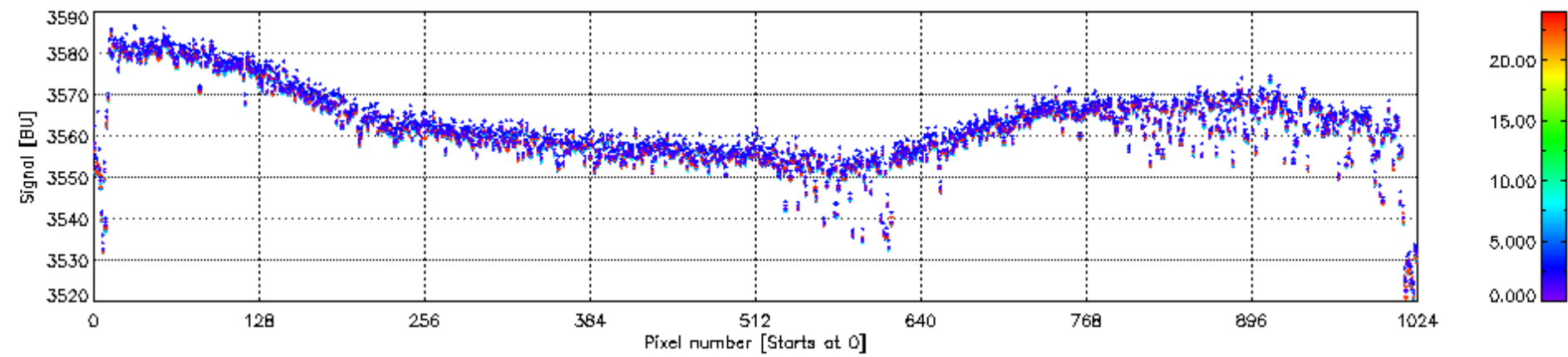
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 1 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



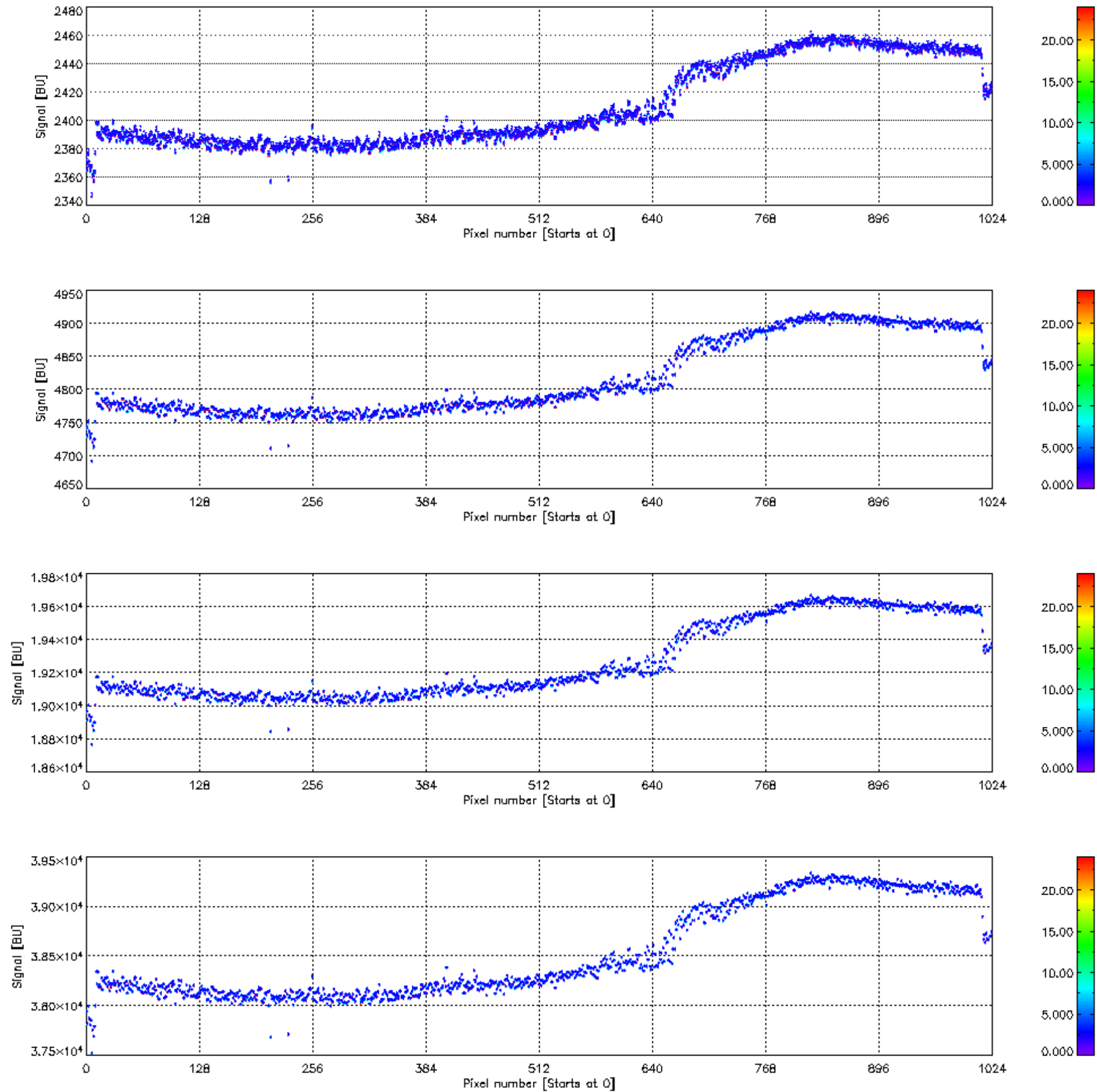
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 2 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



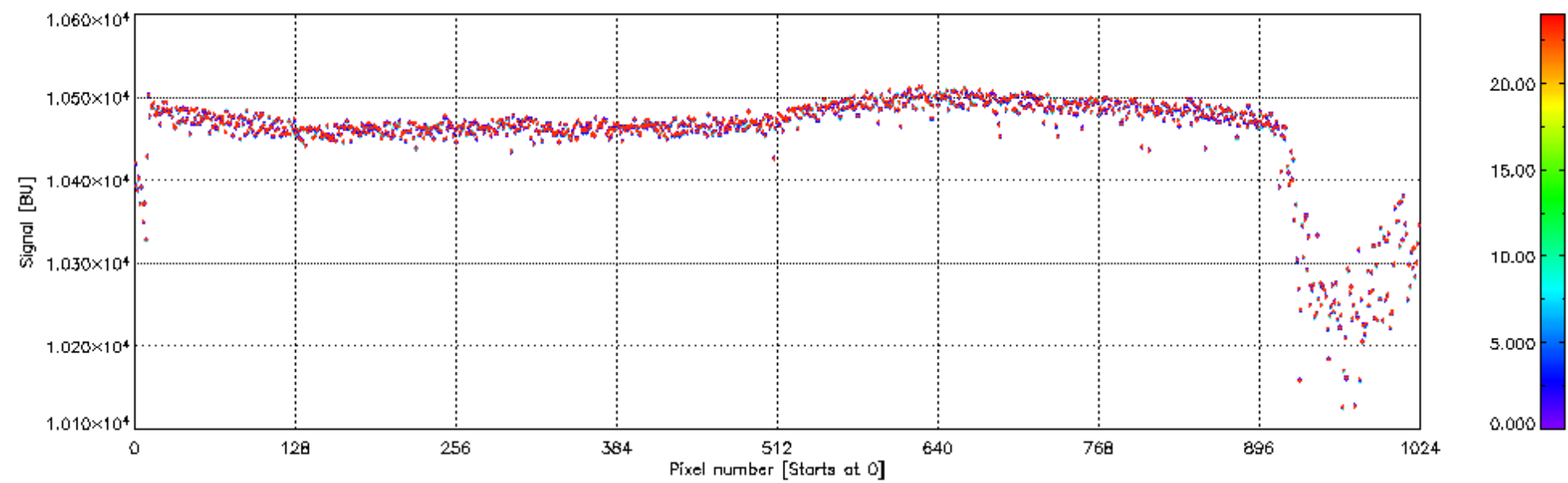
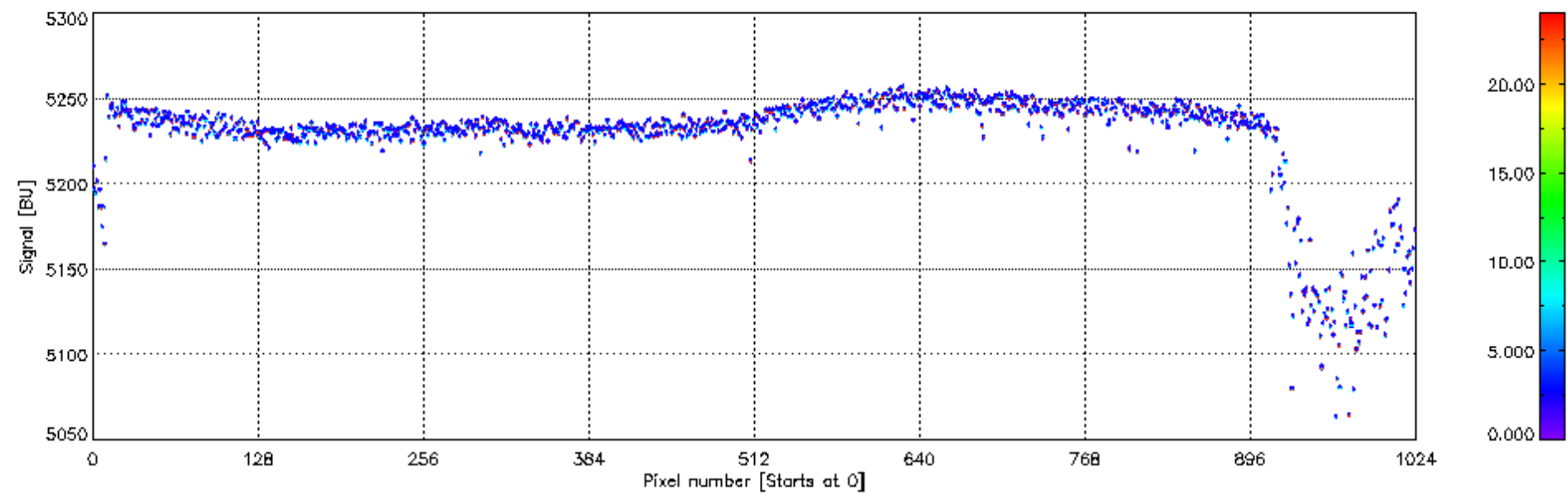
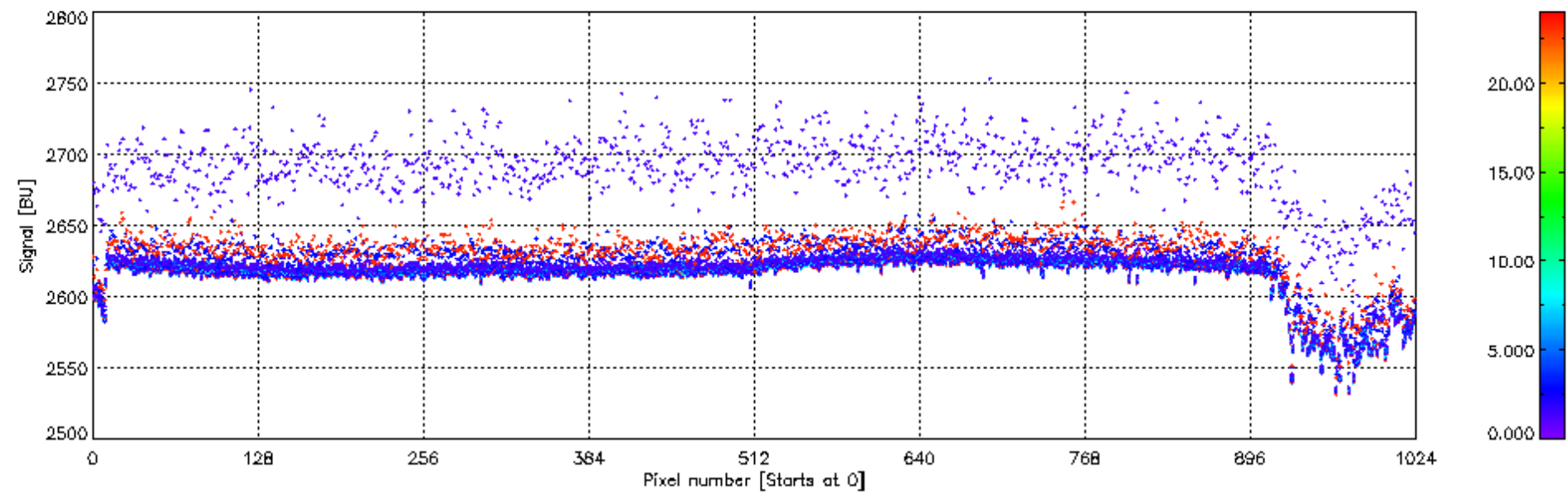
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 3 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



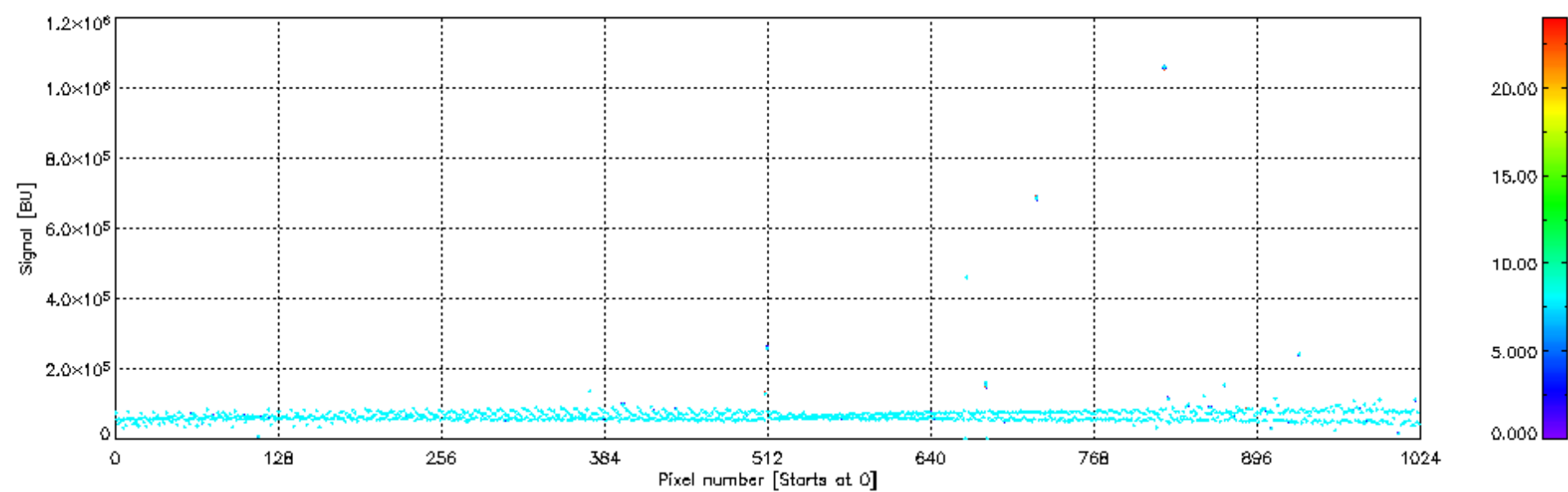
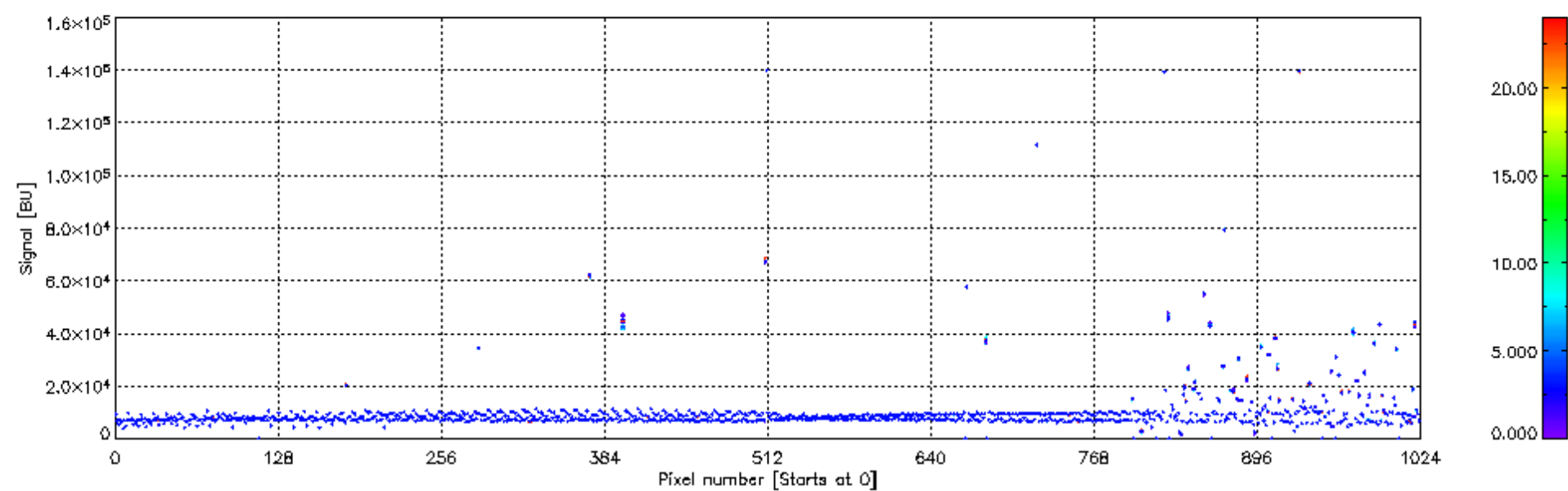
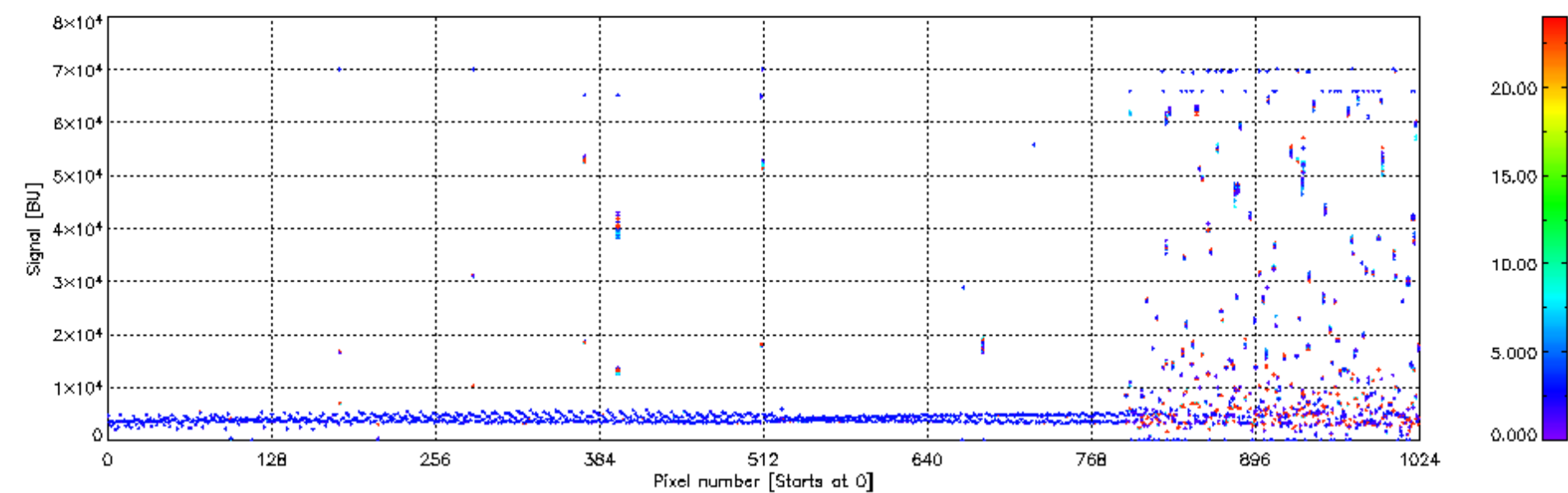
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 4 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



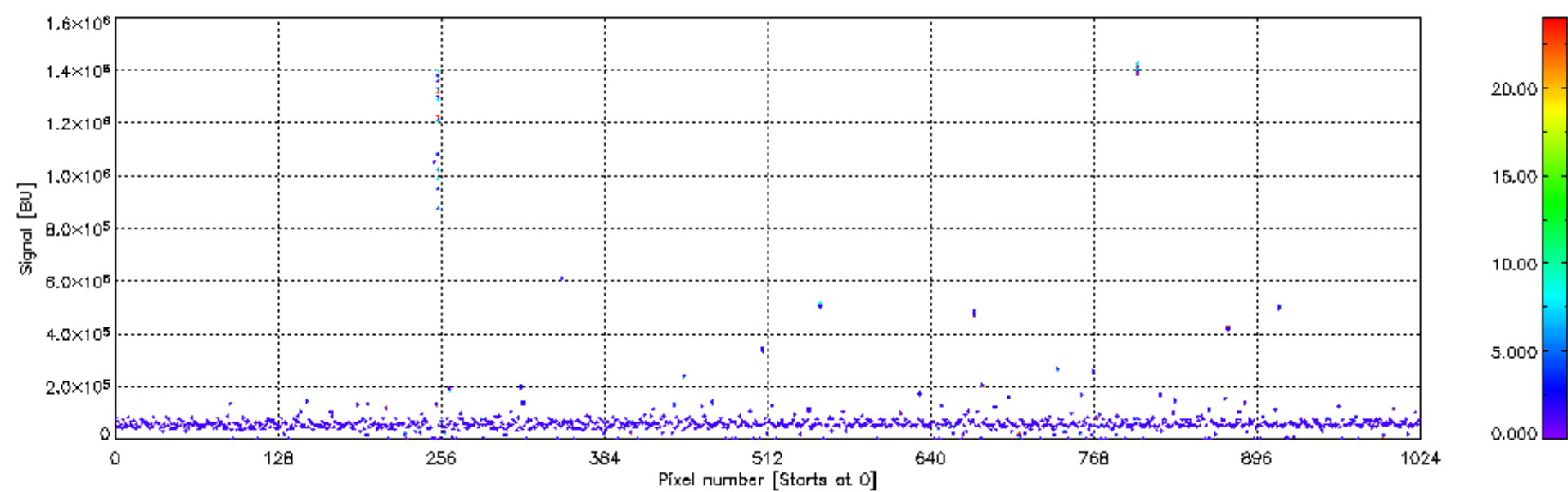
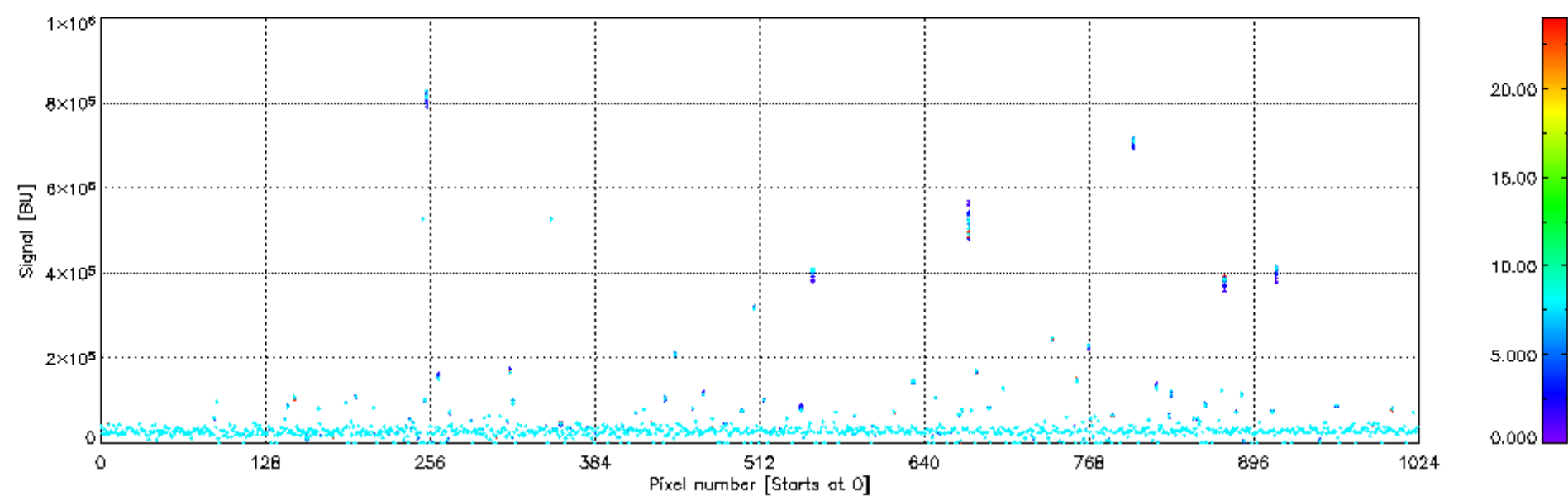
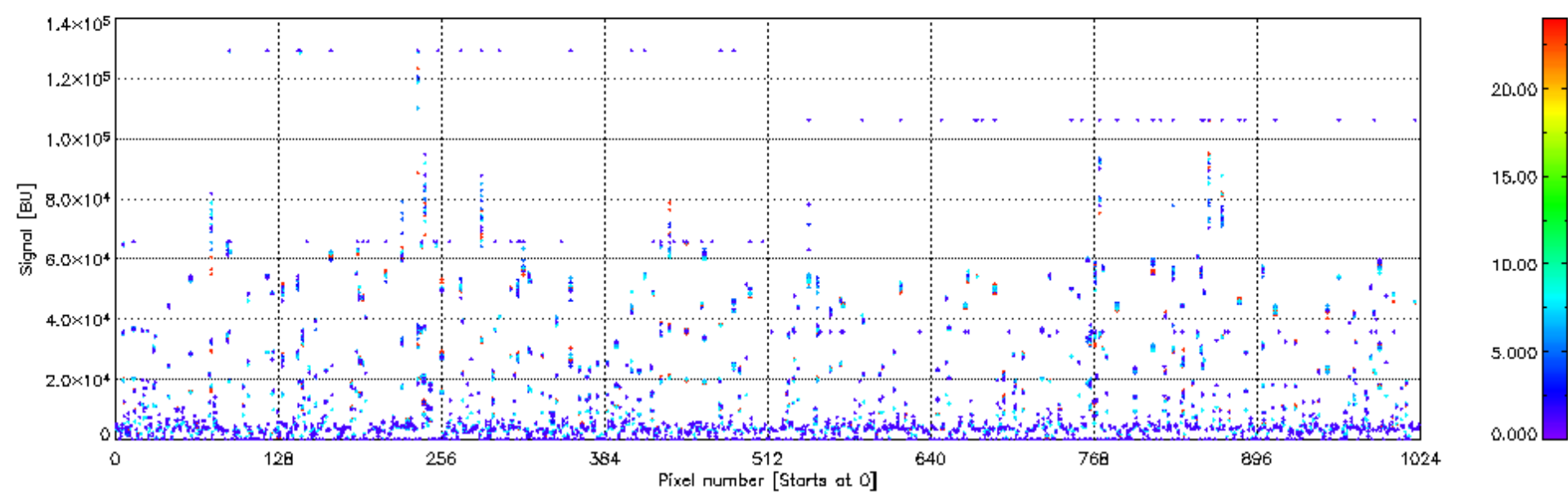
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 5 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



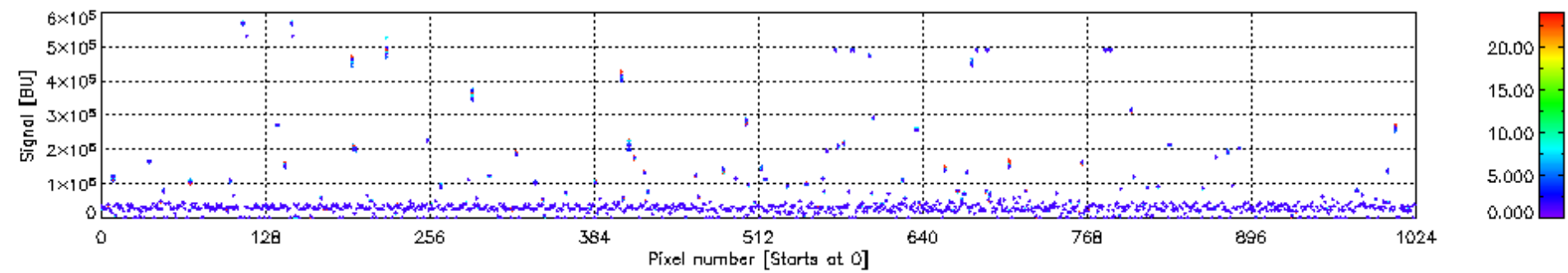
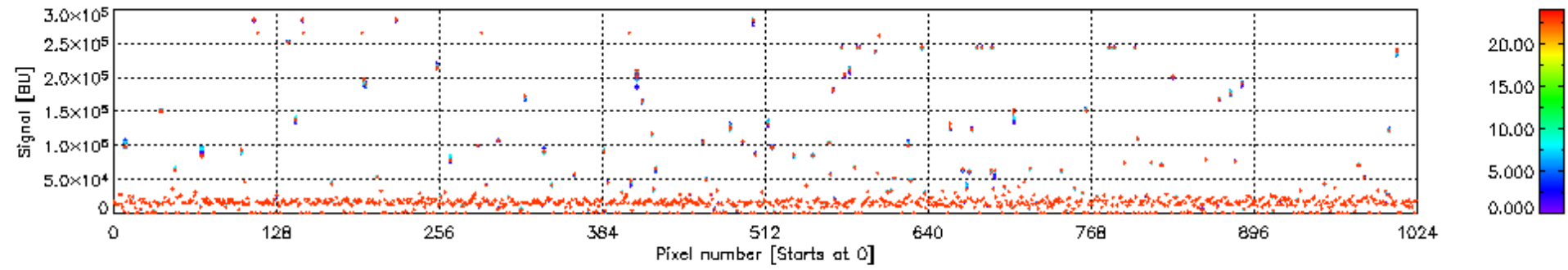
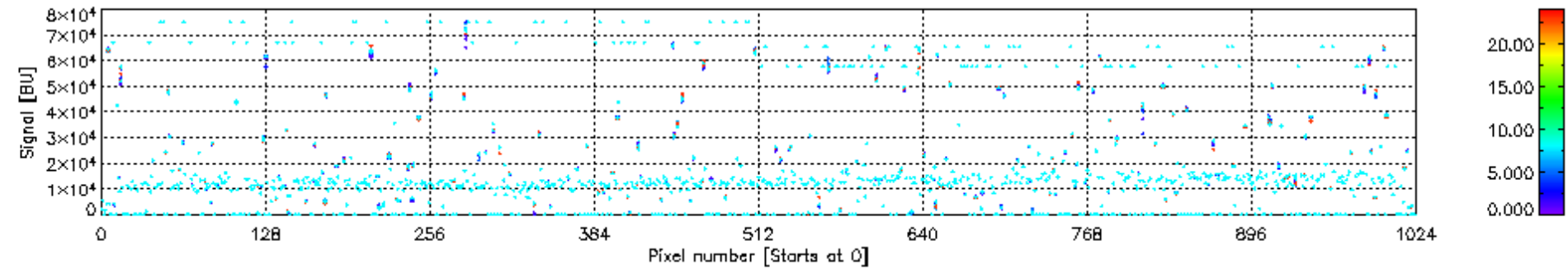
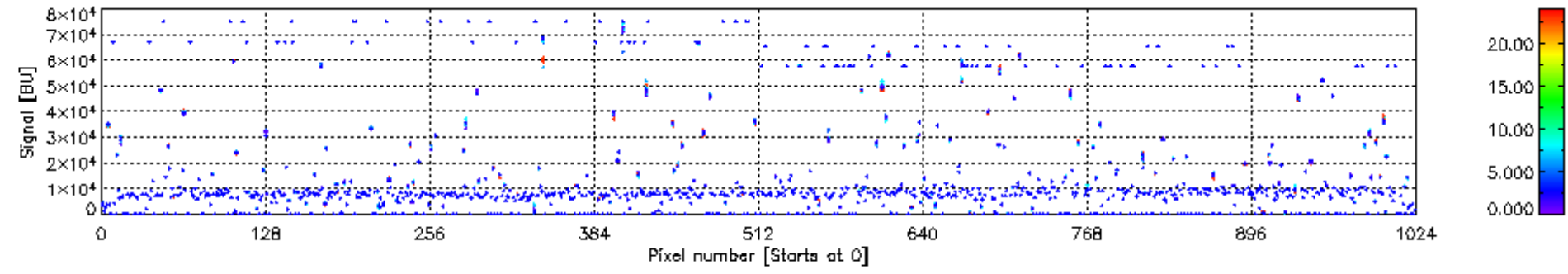
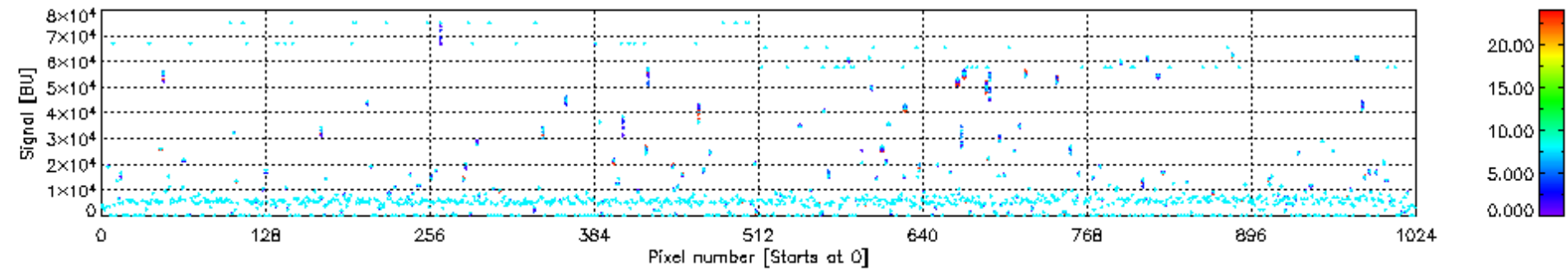
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 6 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00



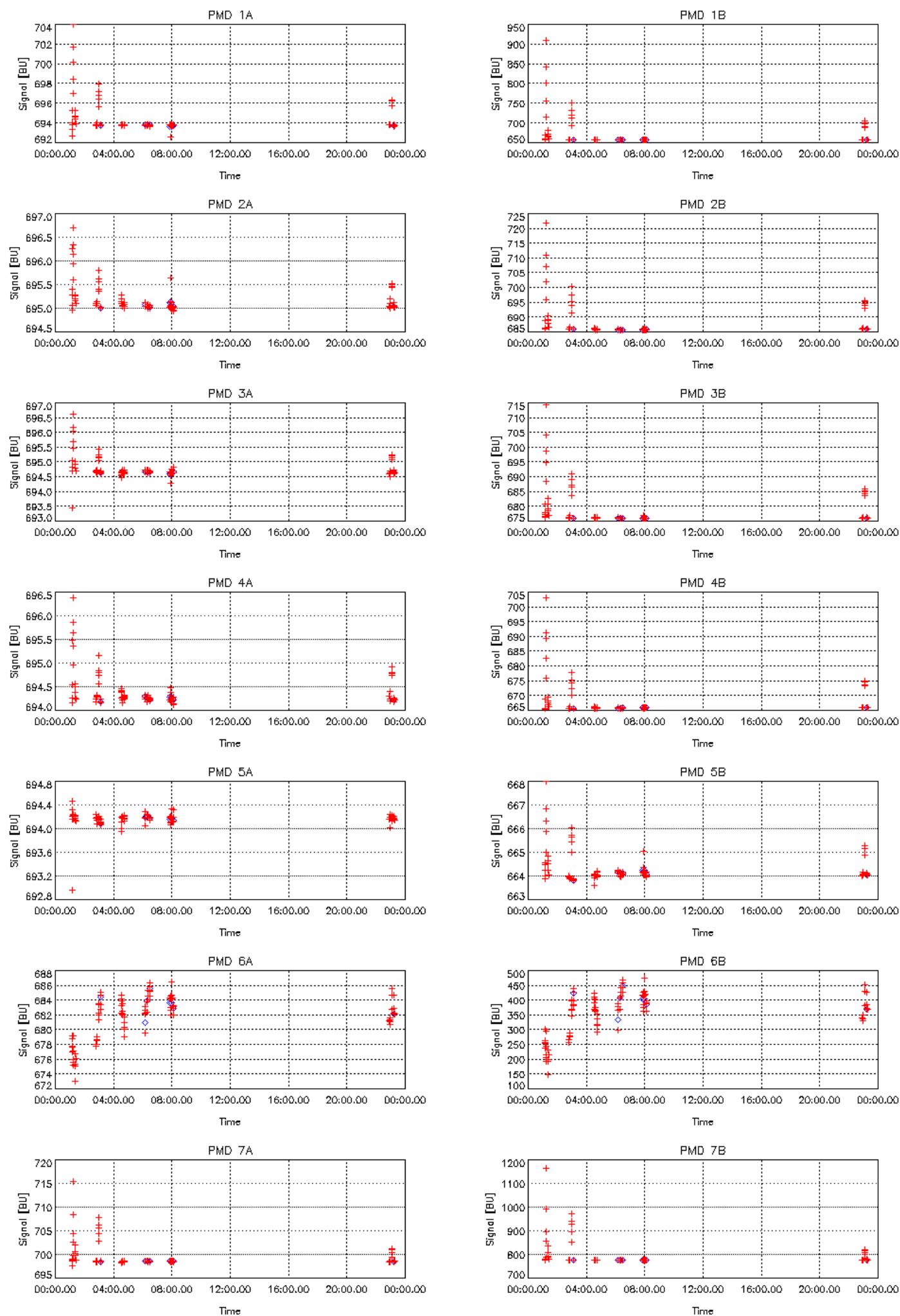
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 7 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00

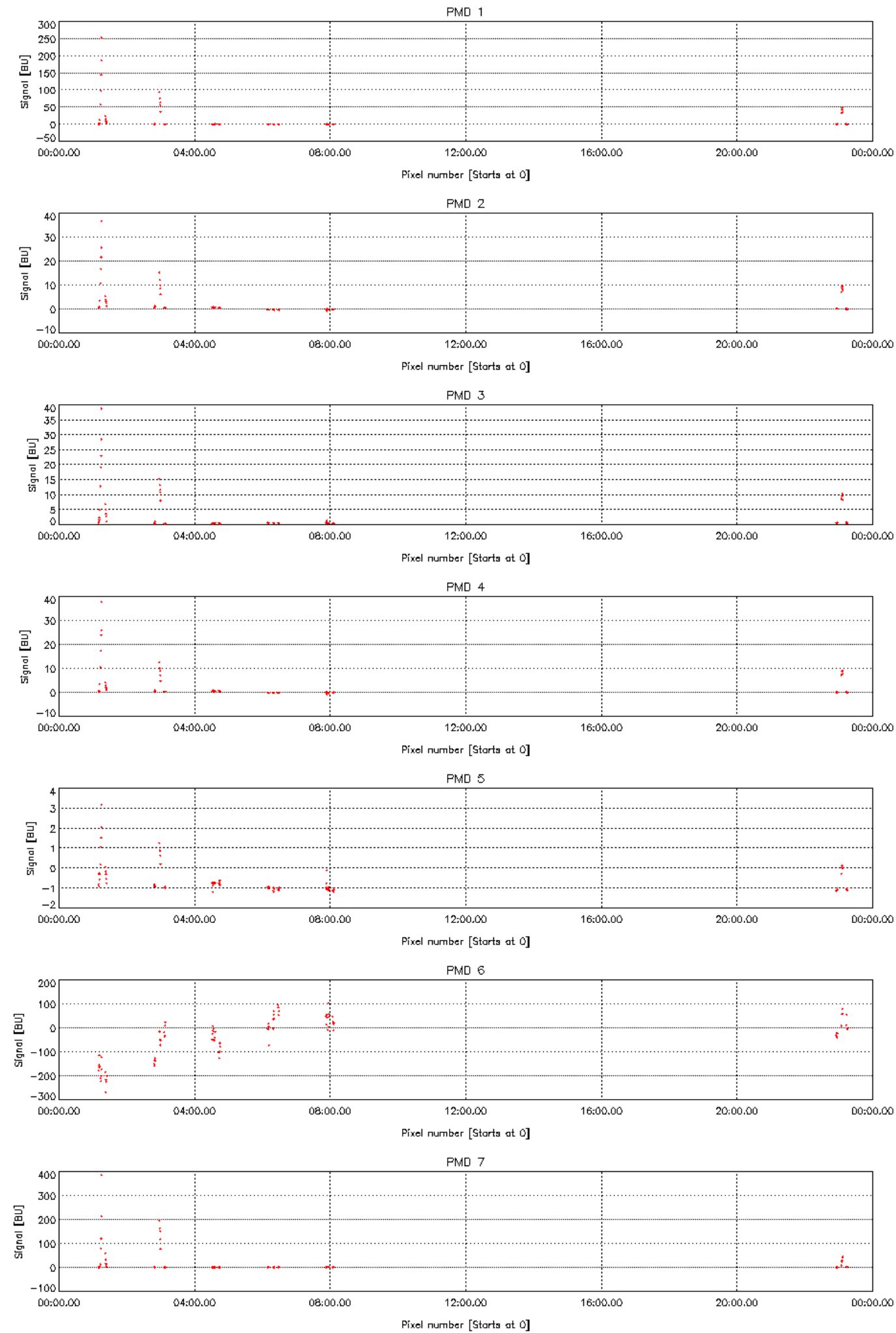


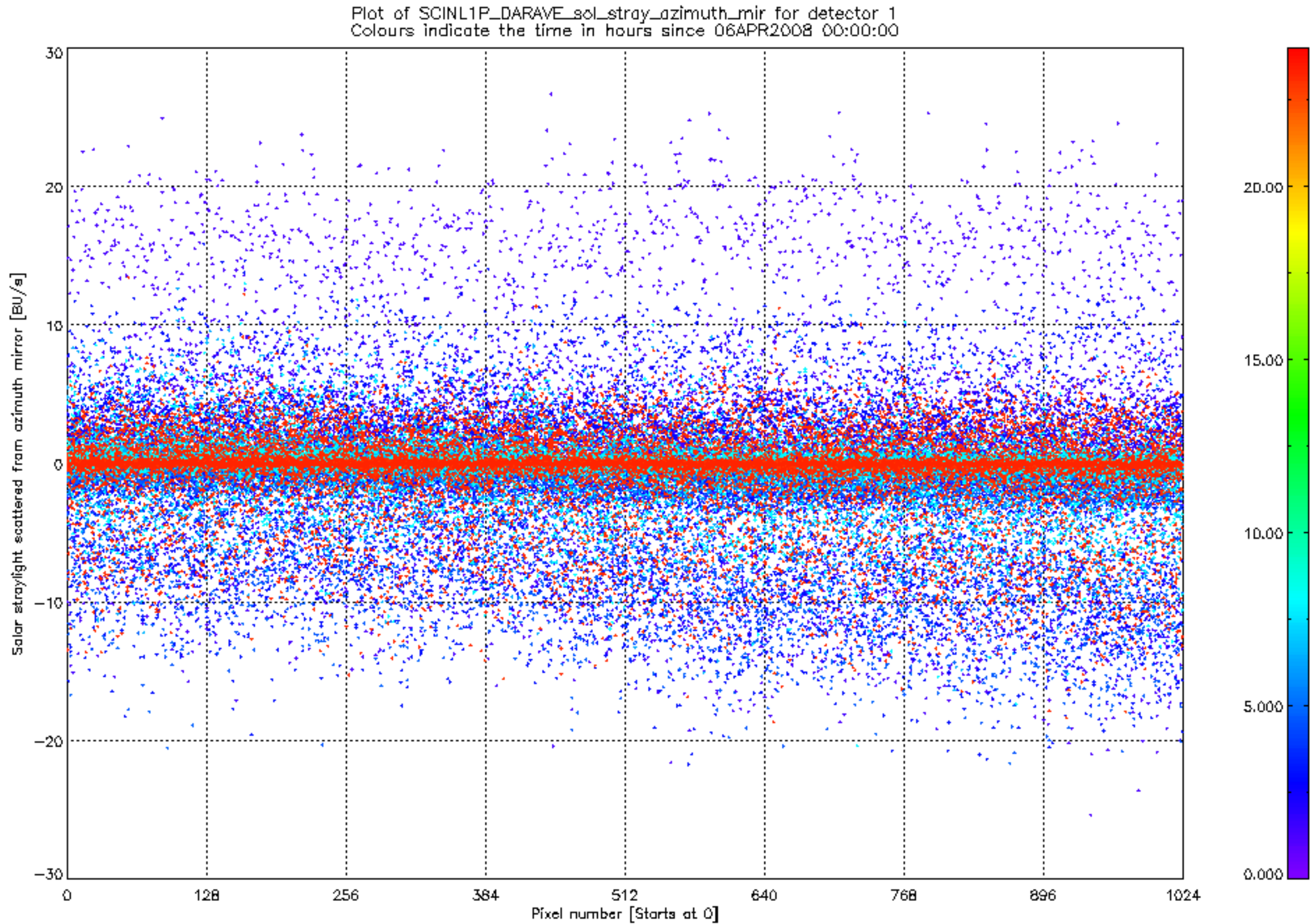
Plots of SCINL1P_DARAVE_avg_dark_meas_spec for detector 8 on 06APR2008.
The plots show different value ranges of the dark measurements.
The colours indicate the time in hours since 06APR2008 00:00:00

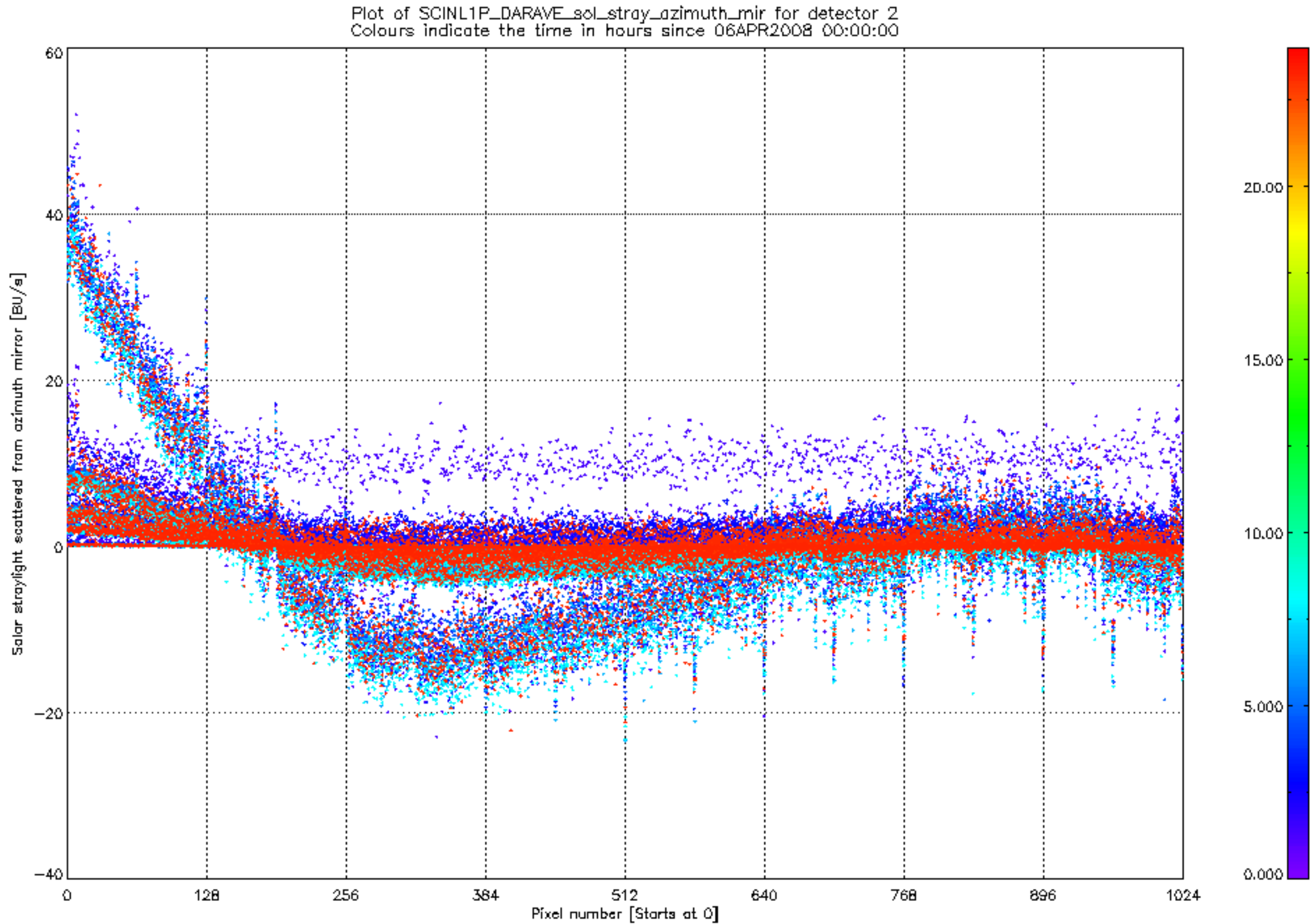


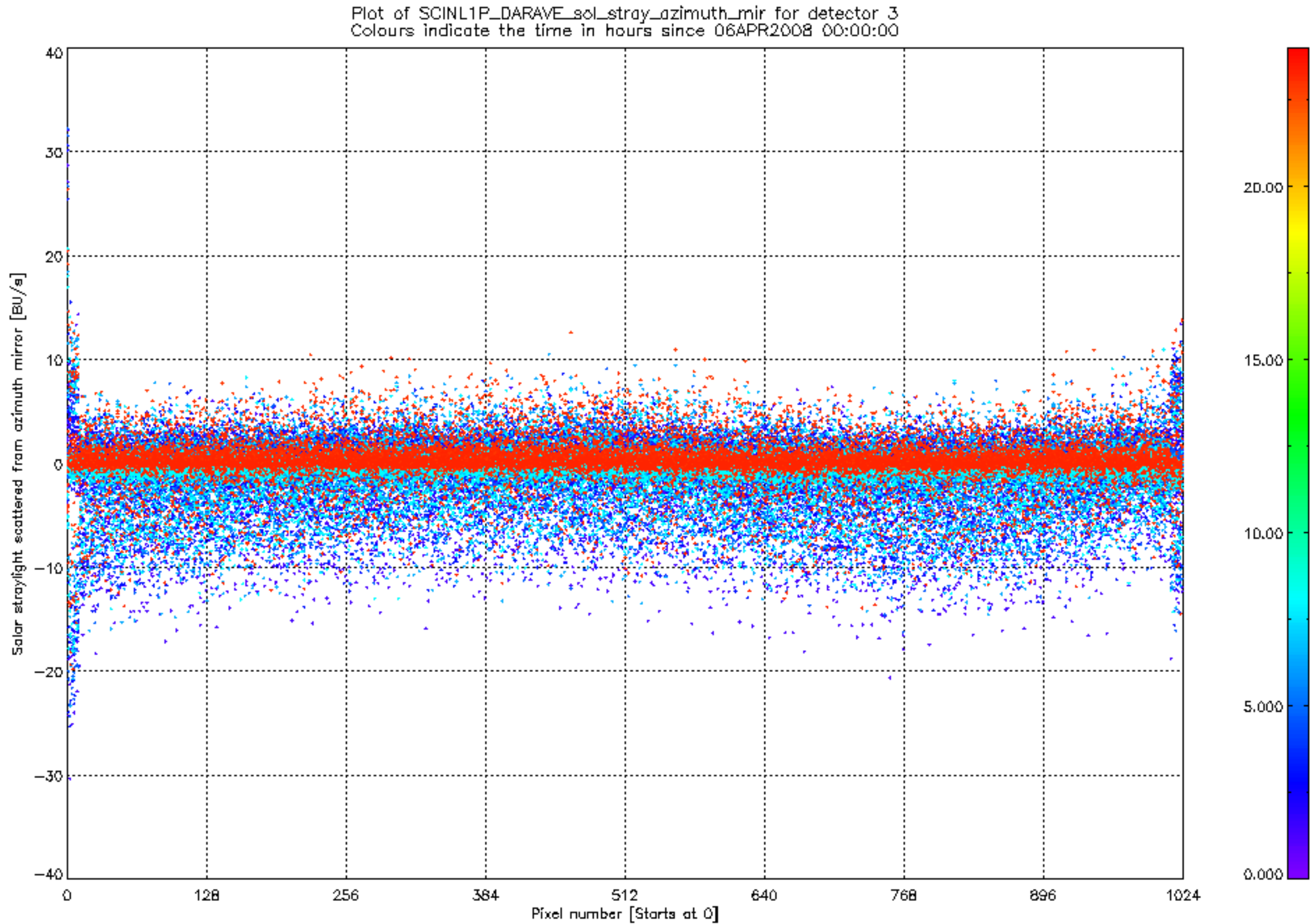
Plots of SCINL1P_DARAVE_pmd_dark_offset vs time on 06APR2008 (red).
New leakage current offset data is given in blue for comparison.

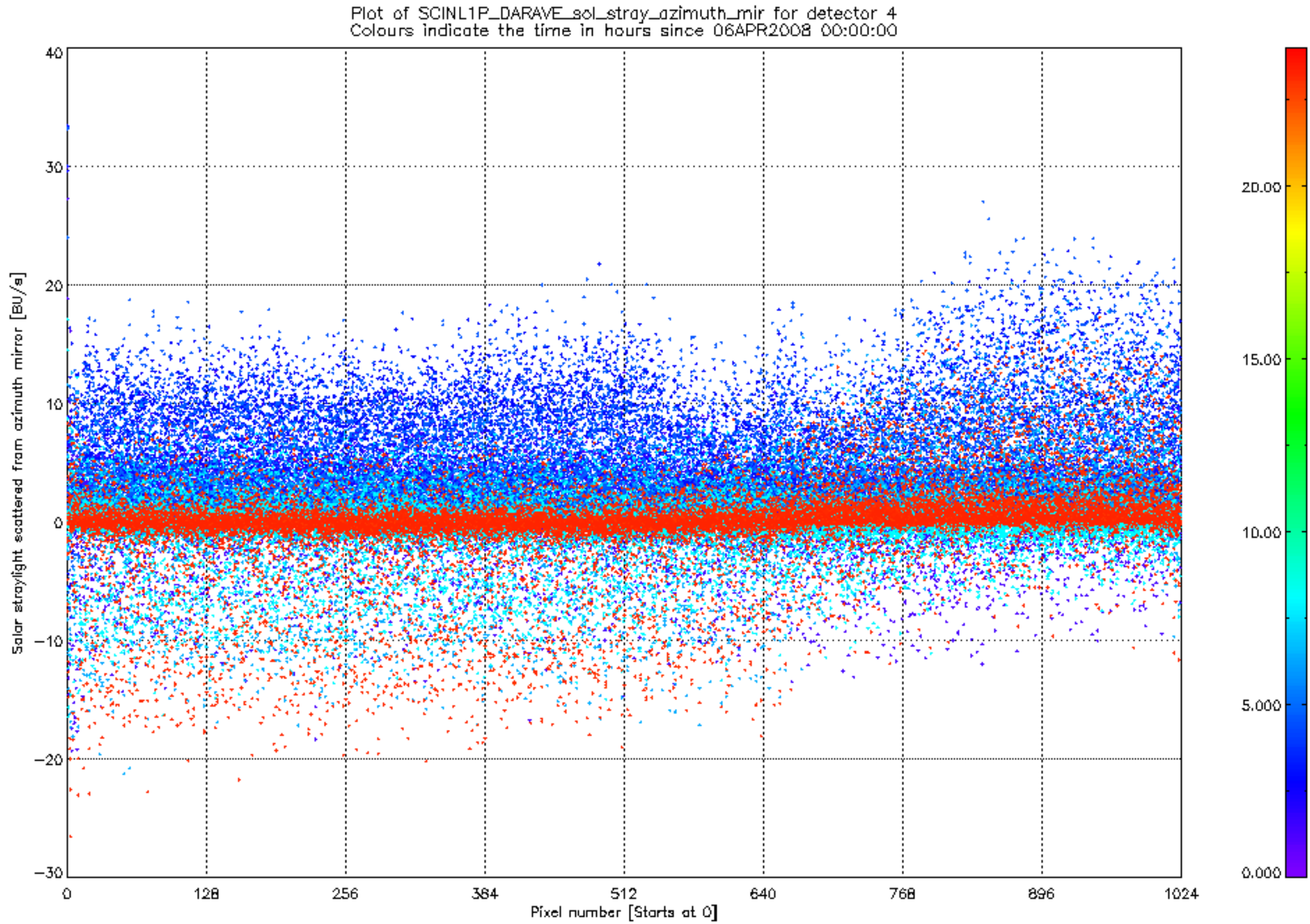


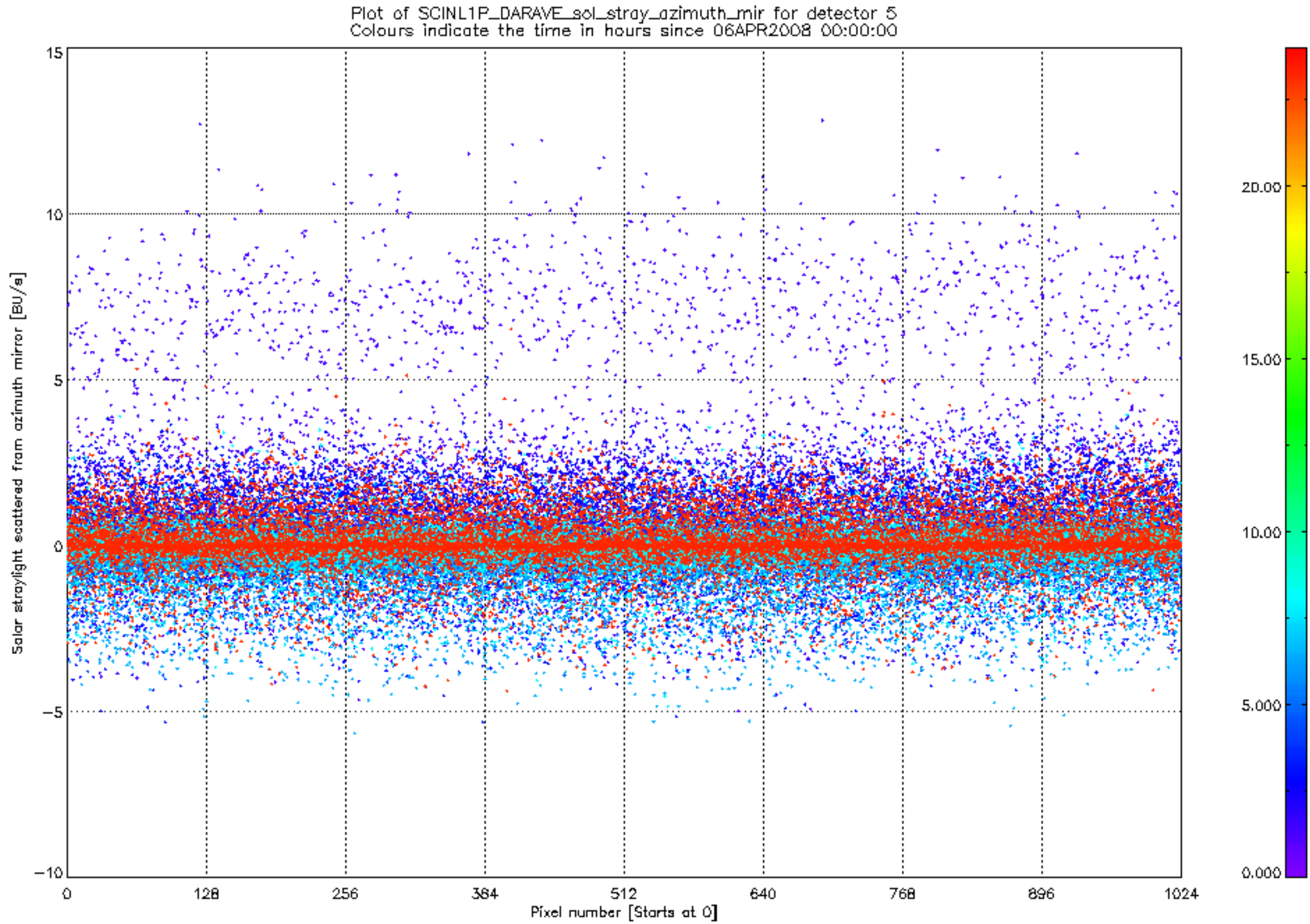


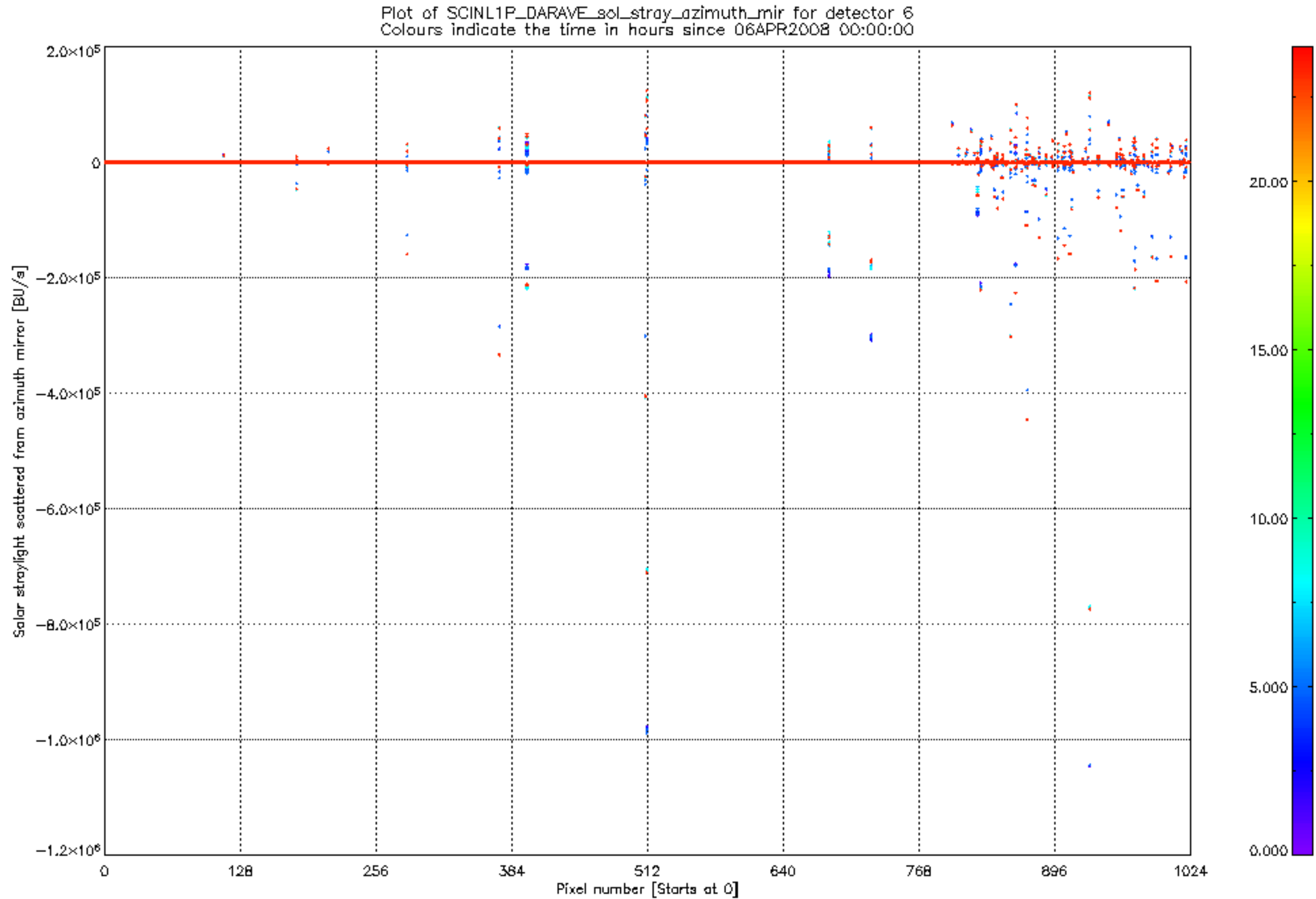




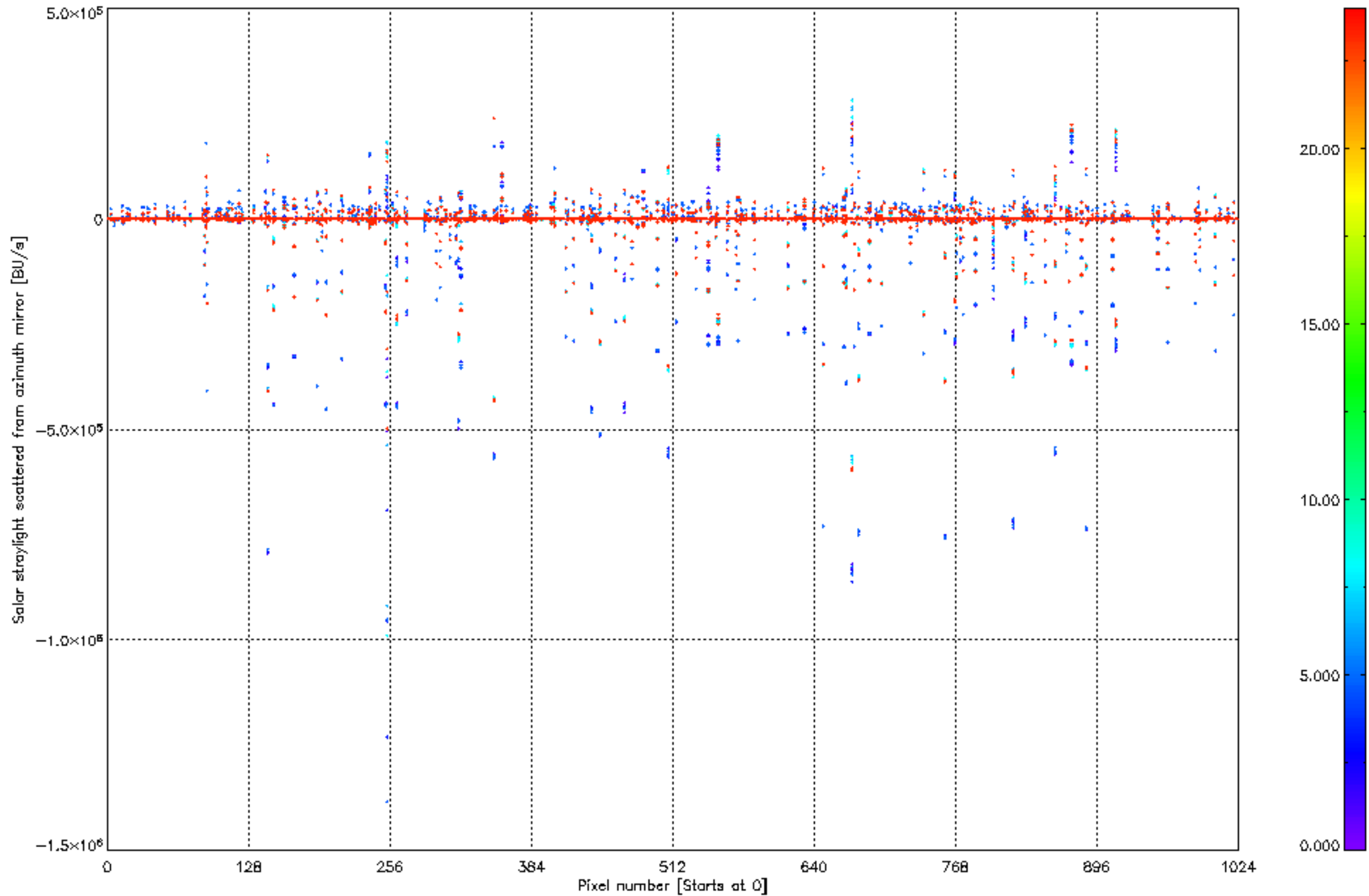


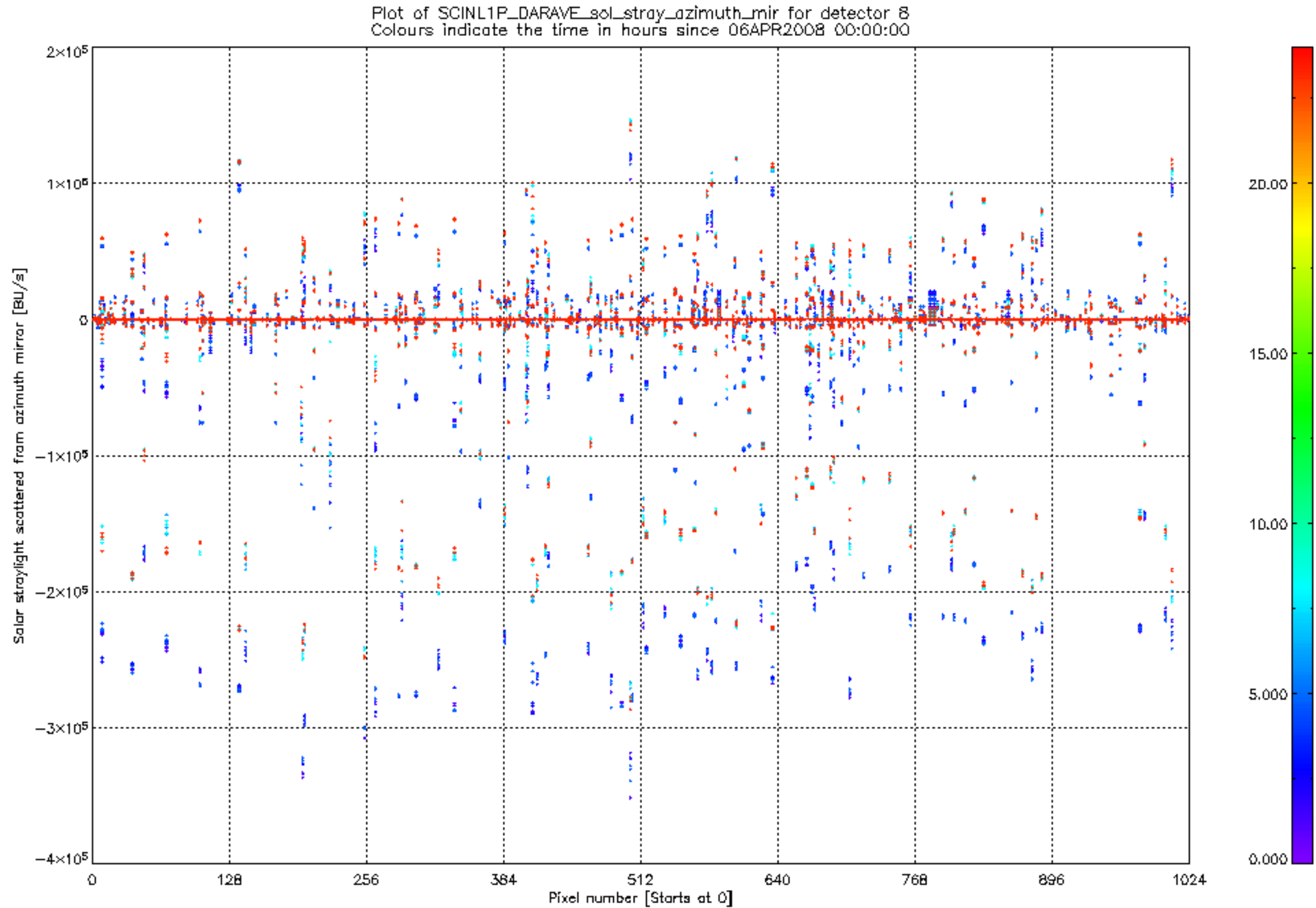




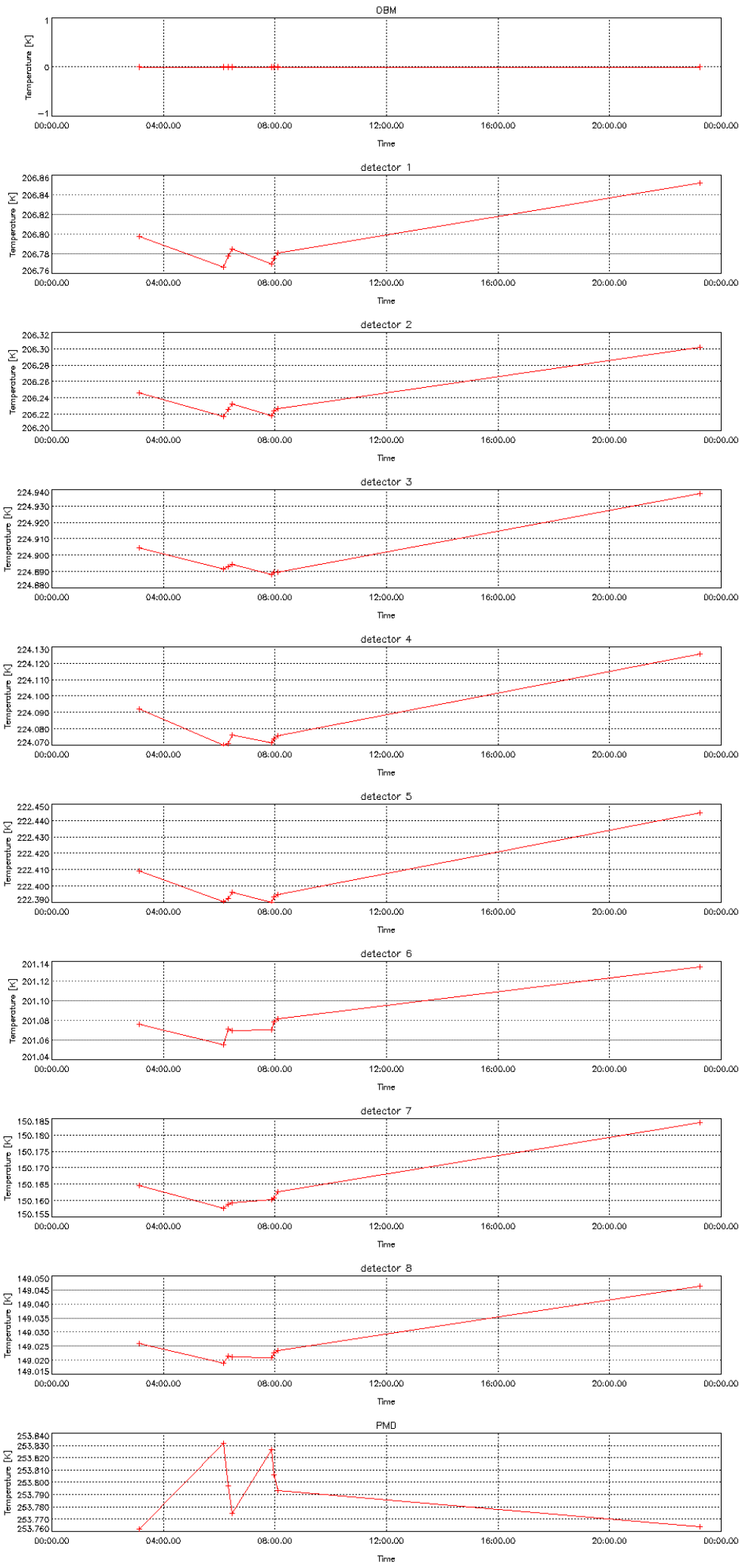


Plot of SCINL1P_DARAVE_sol_stray_azimuth_mir for detector 7
Colours indicate the time in hours since 06APR2008 00:00:00

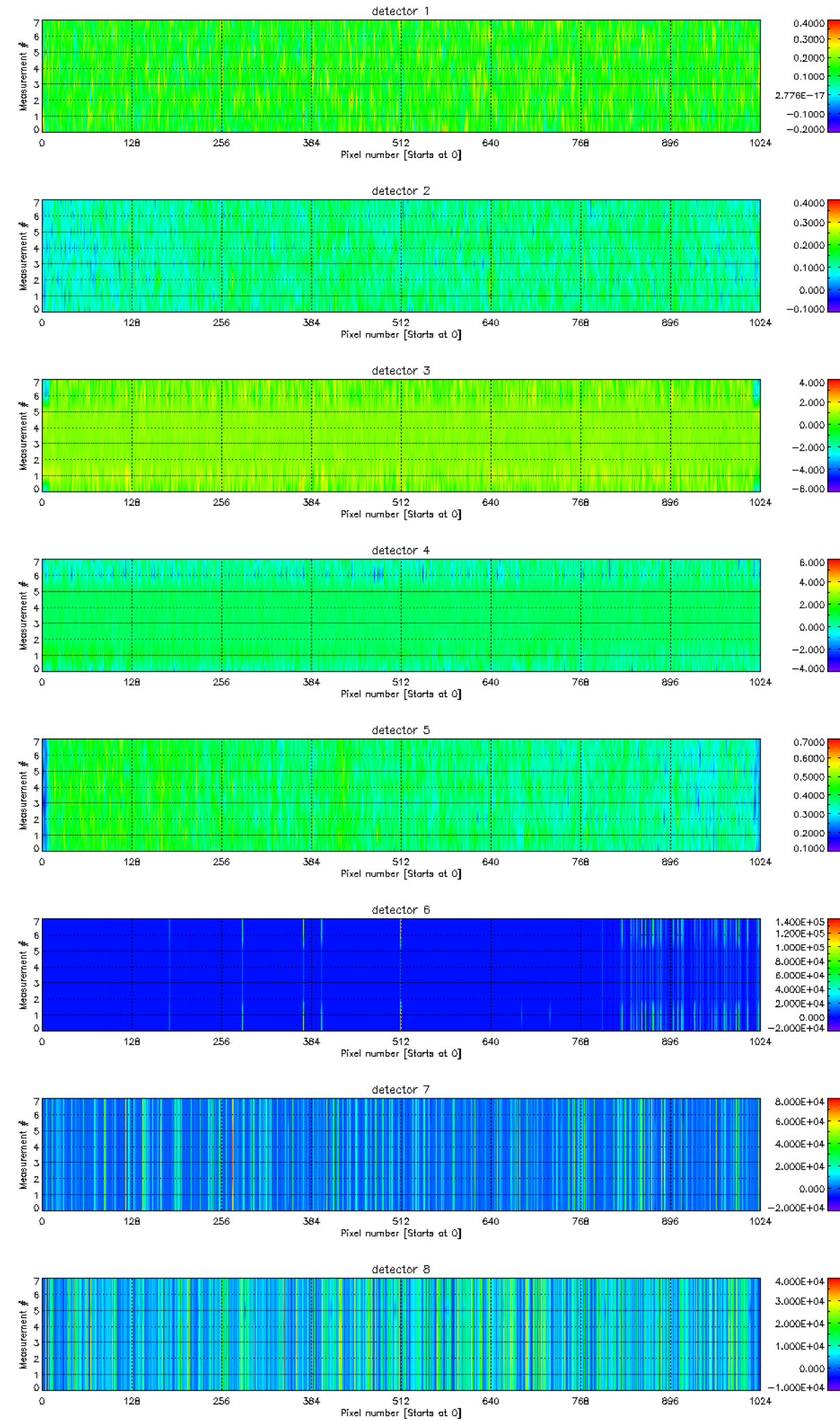




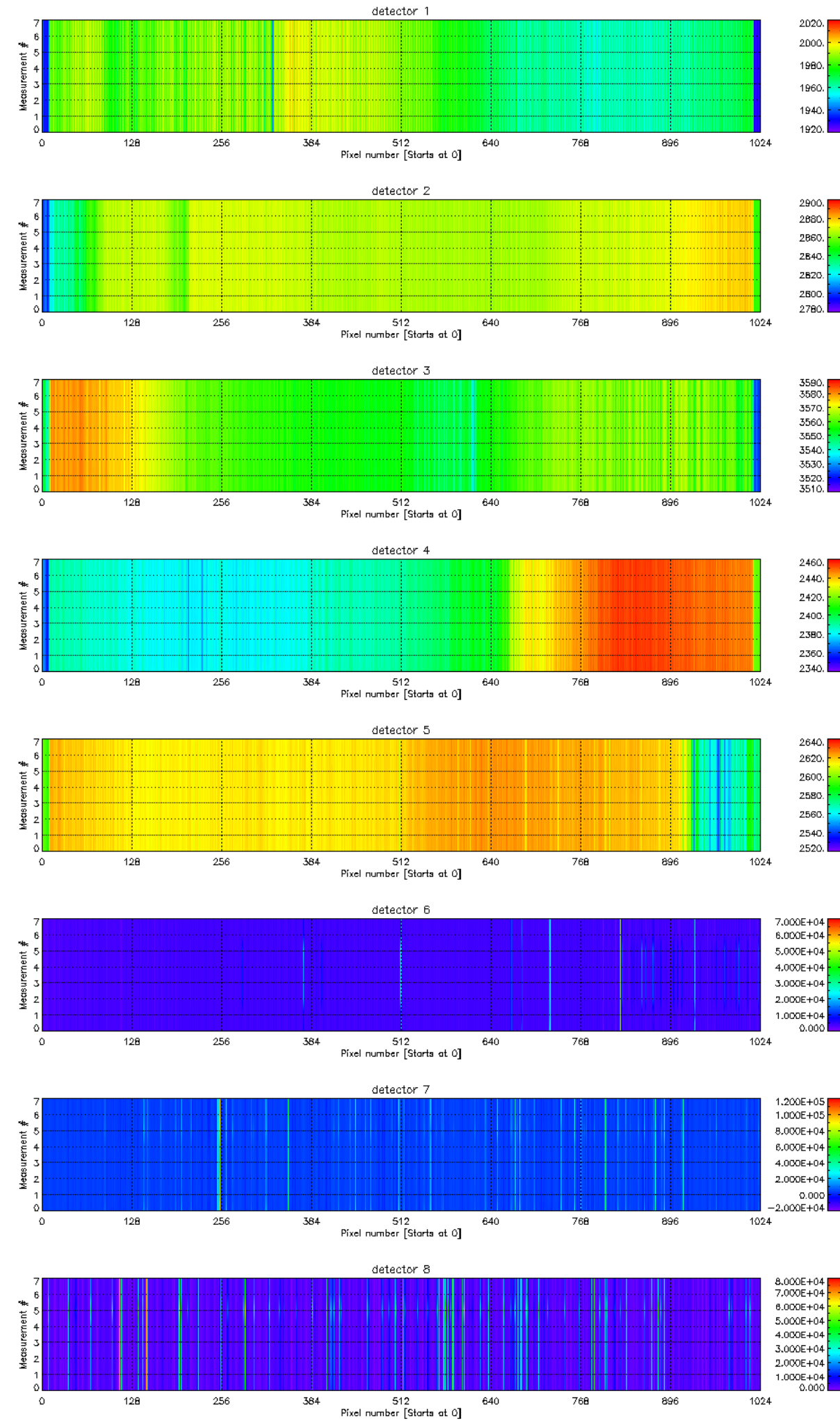
Plots of SCINL1P_NEWLEA_obm_det_prmd temperatures vs time on 06APR2008.



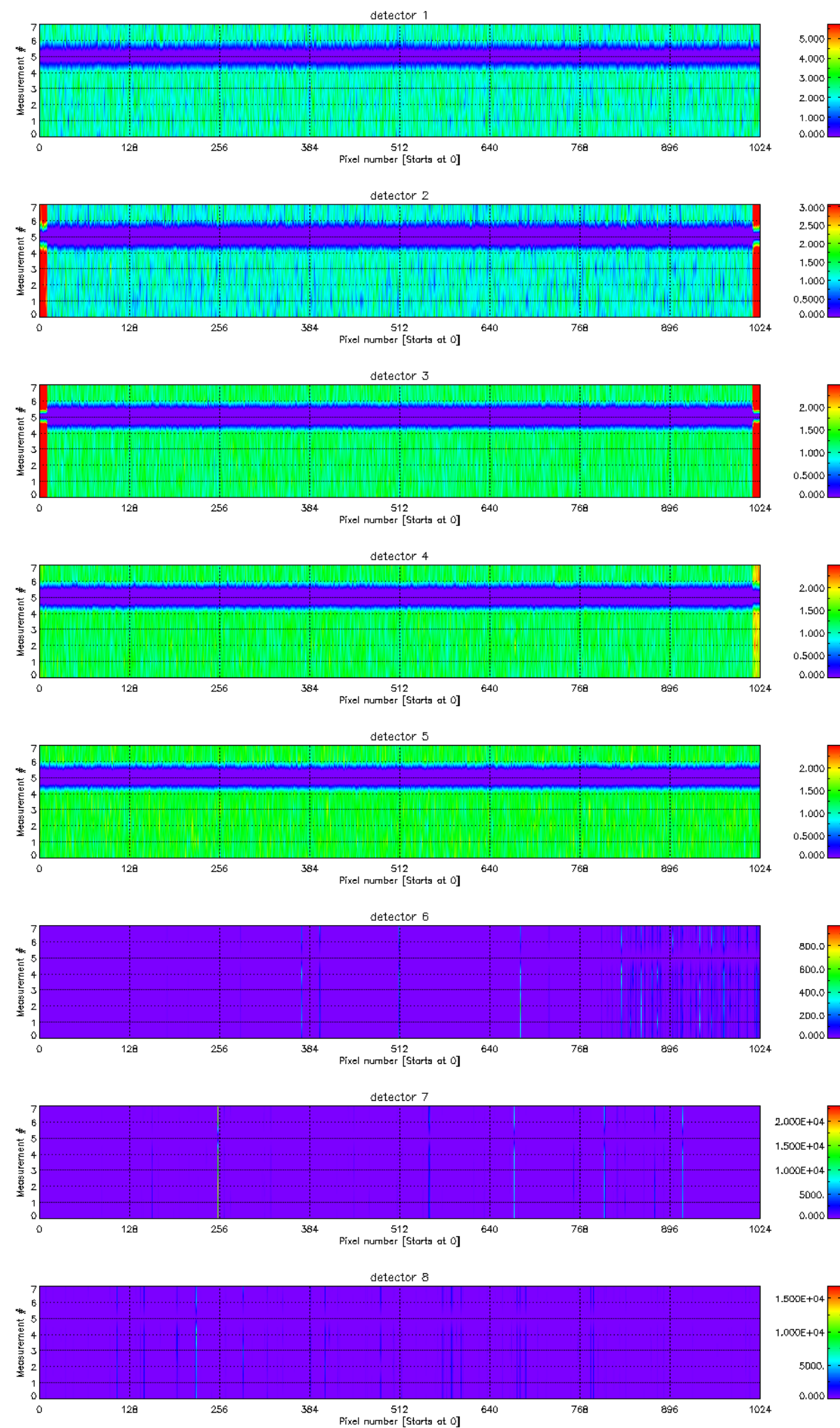
Plots of SCINL1P_NEWLEA_leak_cur for various detectors on 06APR2008.
Colours indicate the value in BU/s.



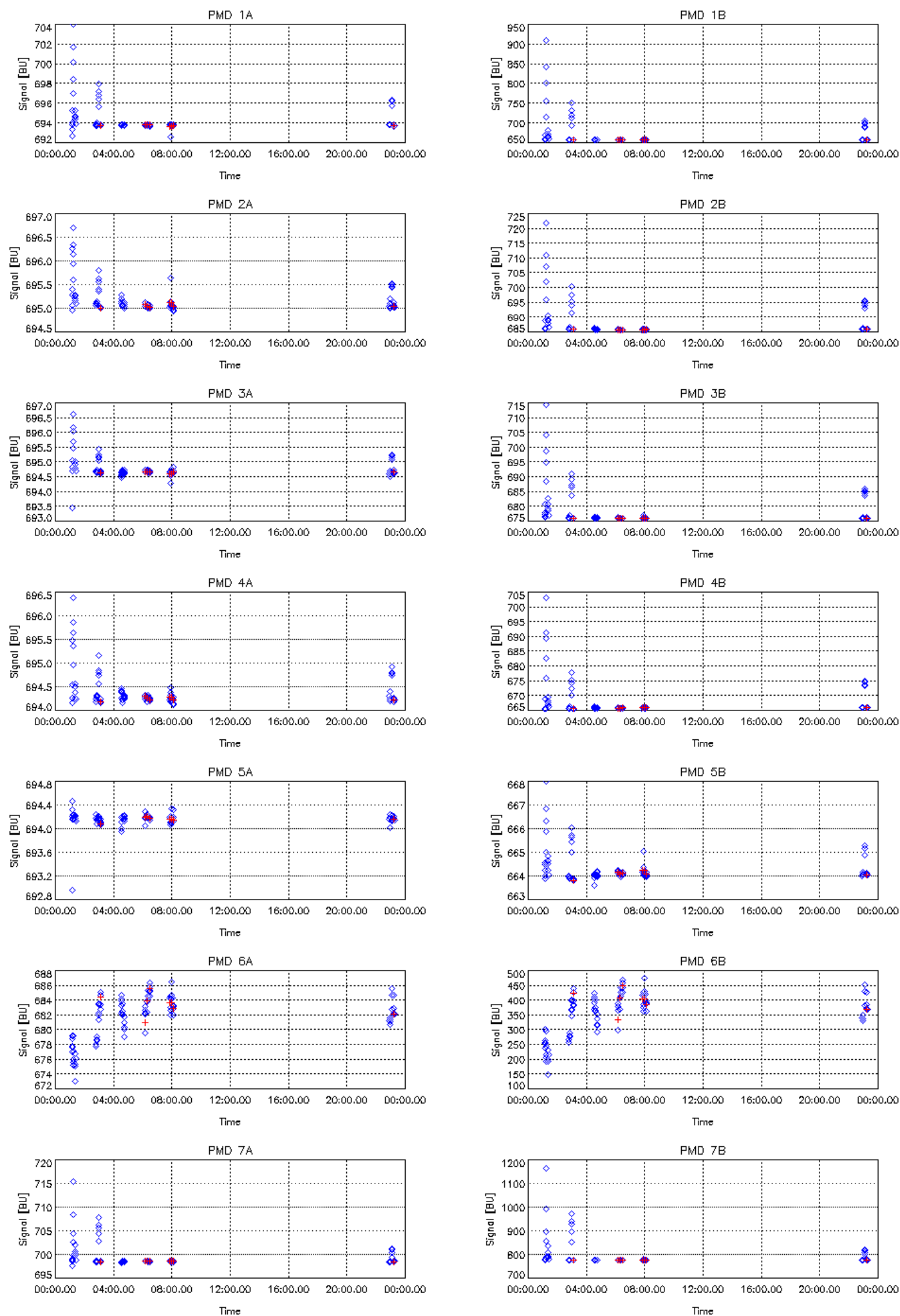
Plots of SCINL1P_NEWLEA_fpn for various detectors on 06APR2008.
Colours indicate the value in BU.

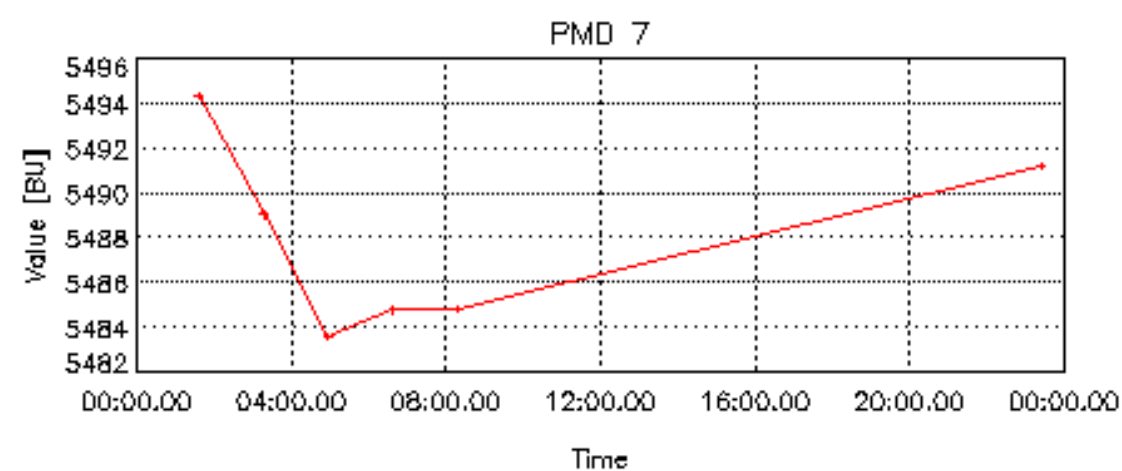
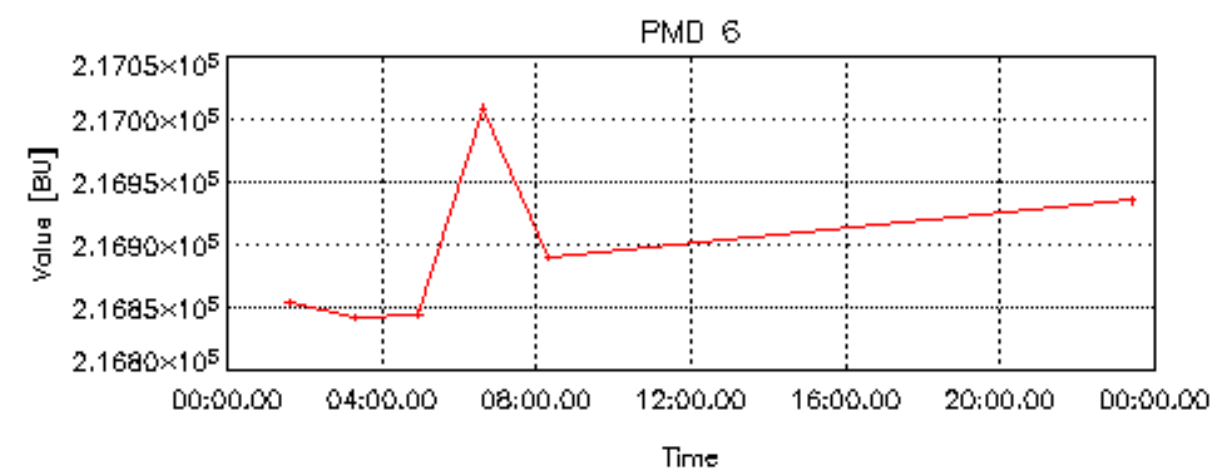
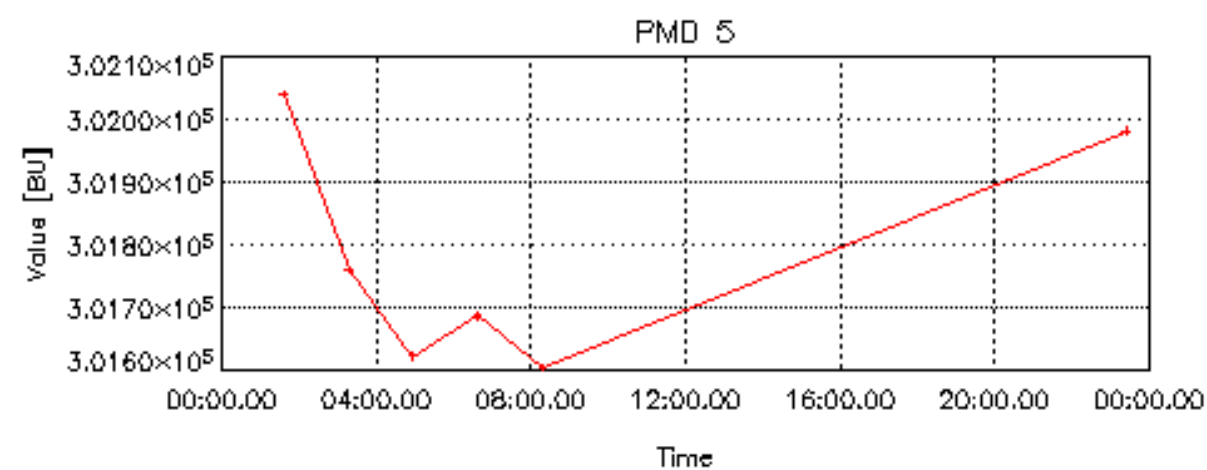
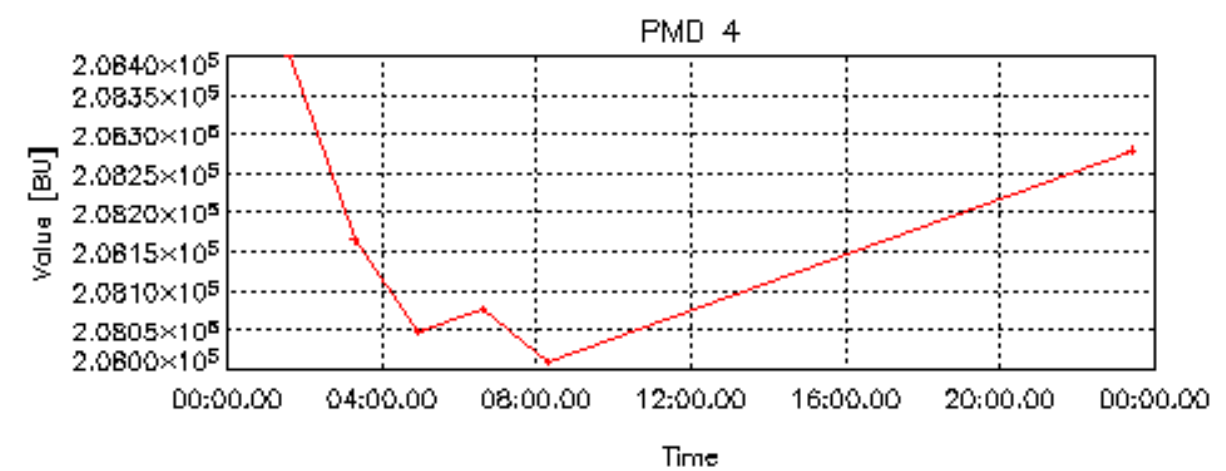
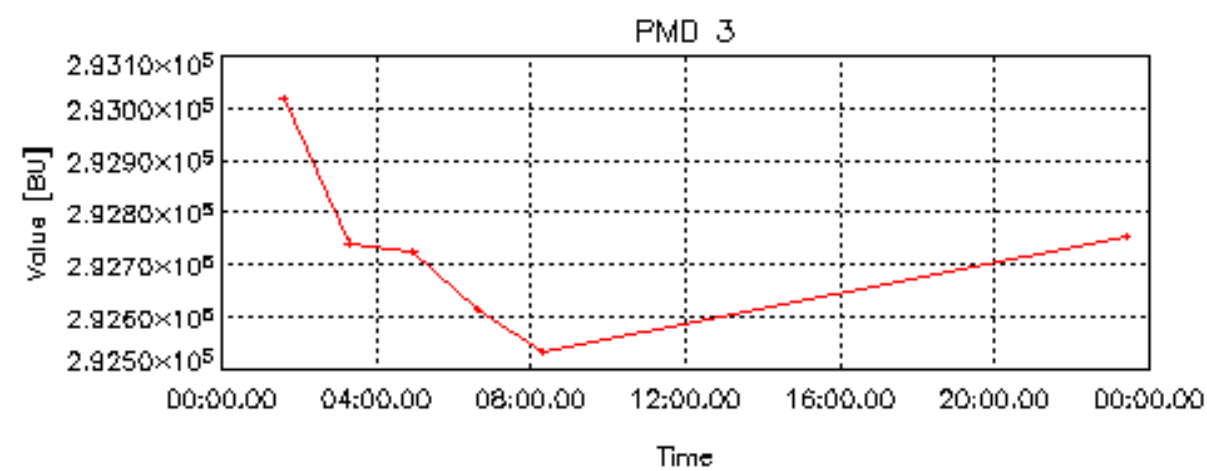
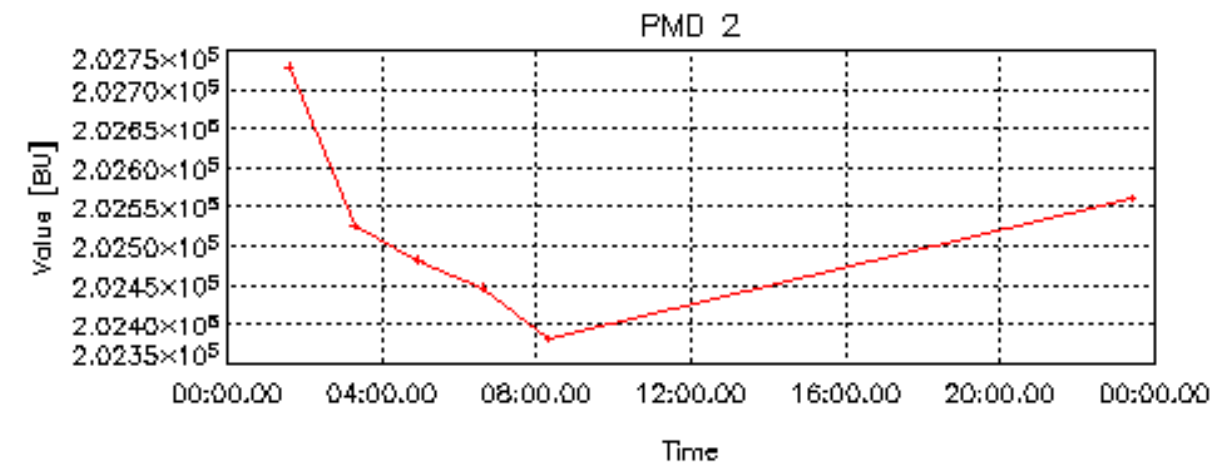
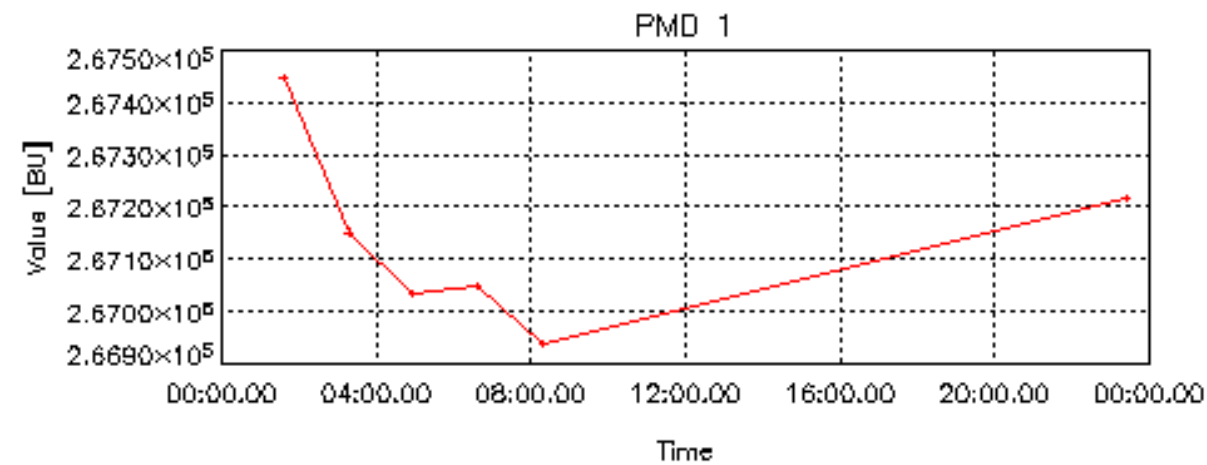


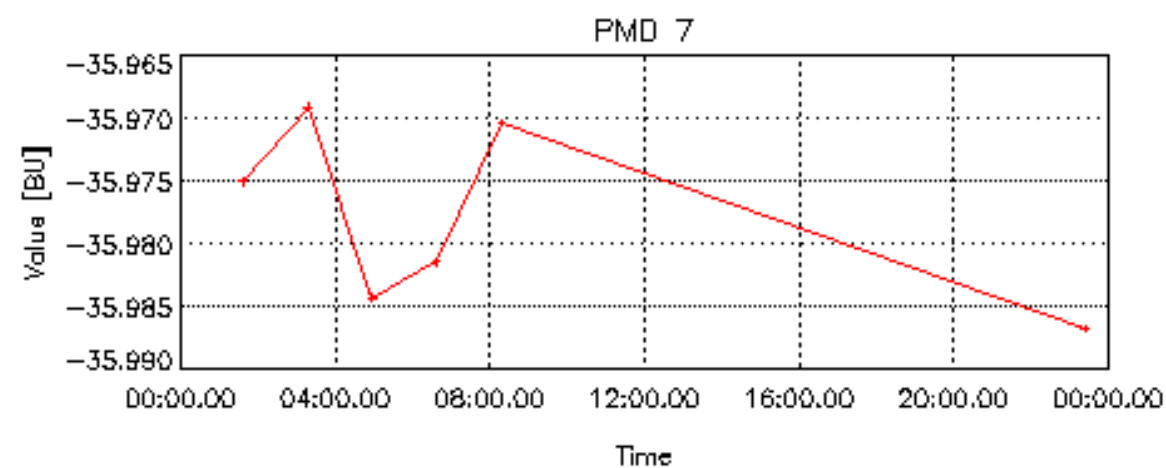
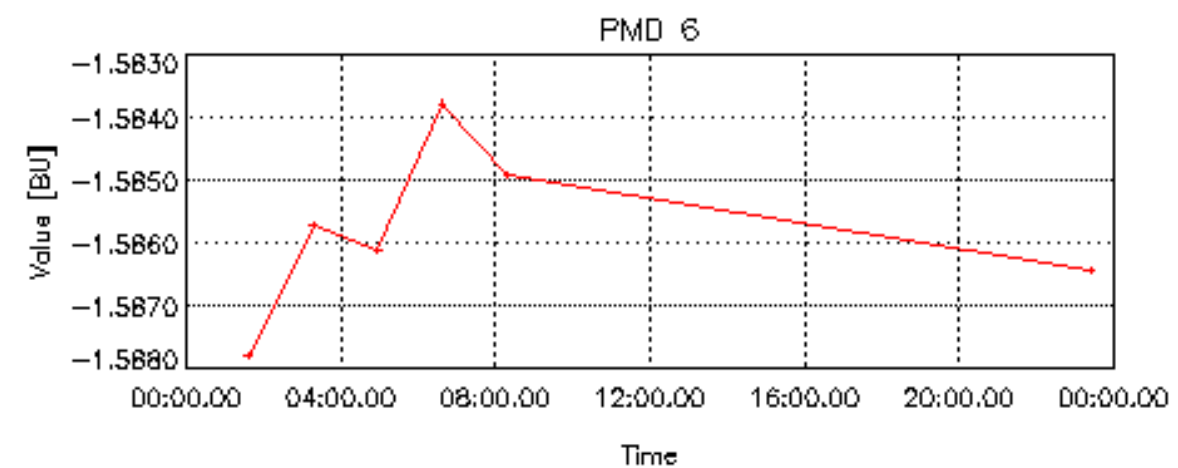
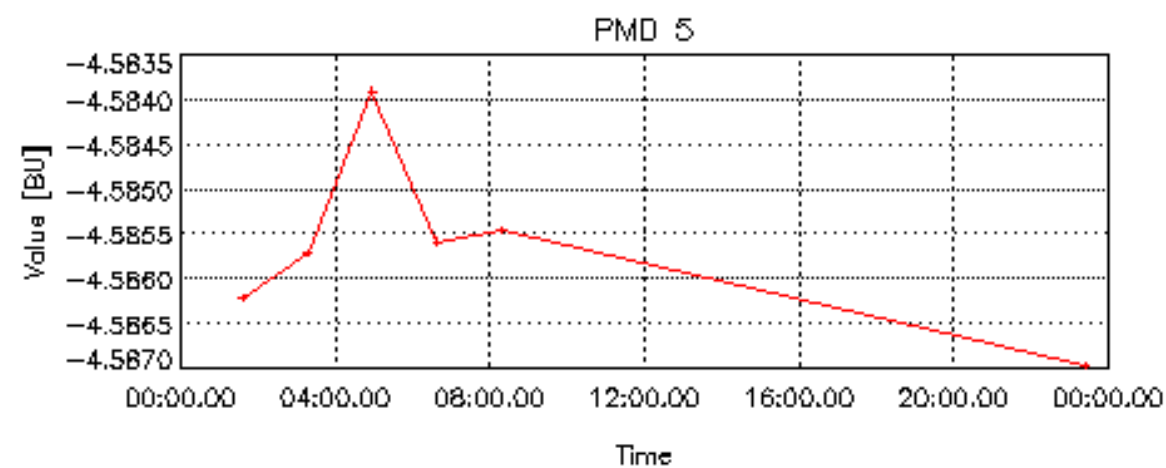
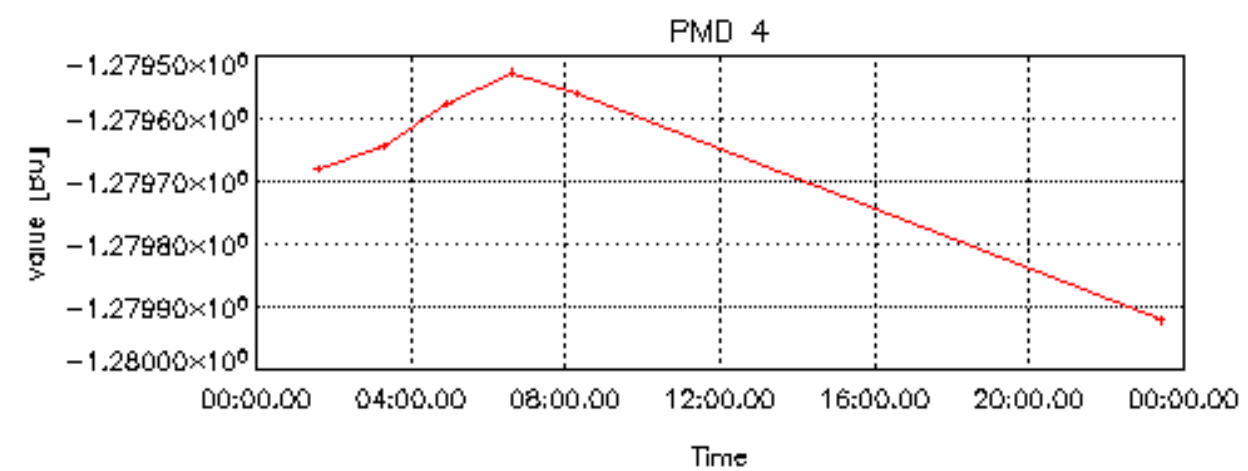
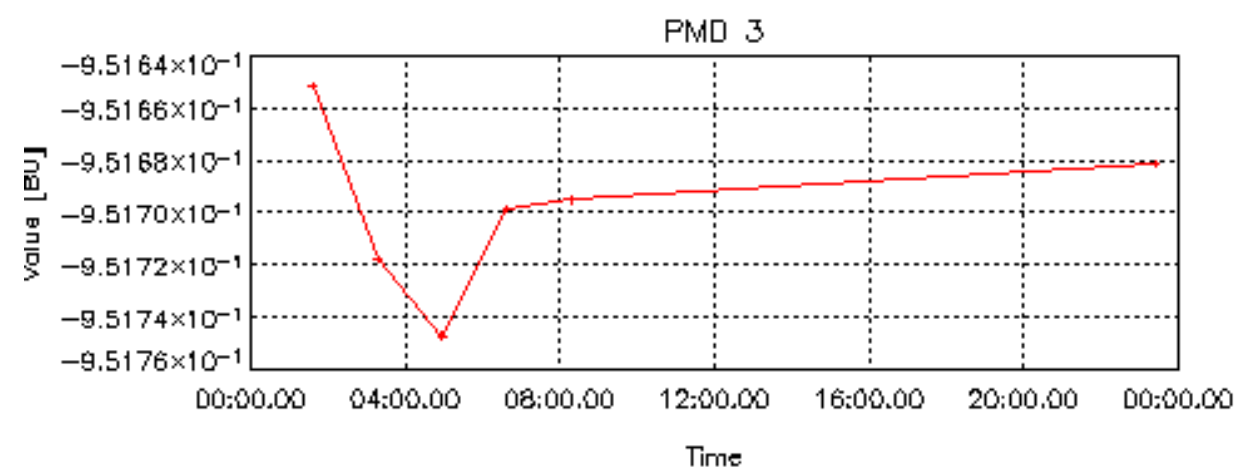
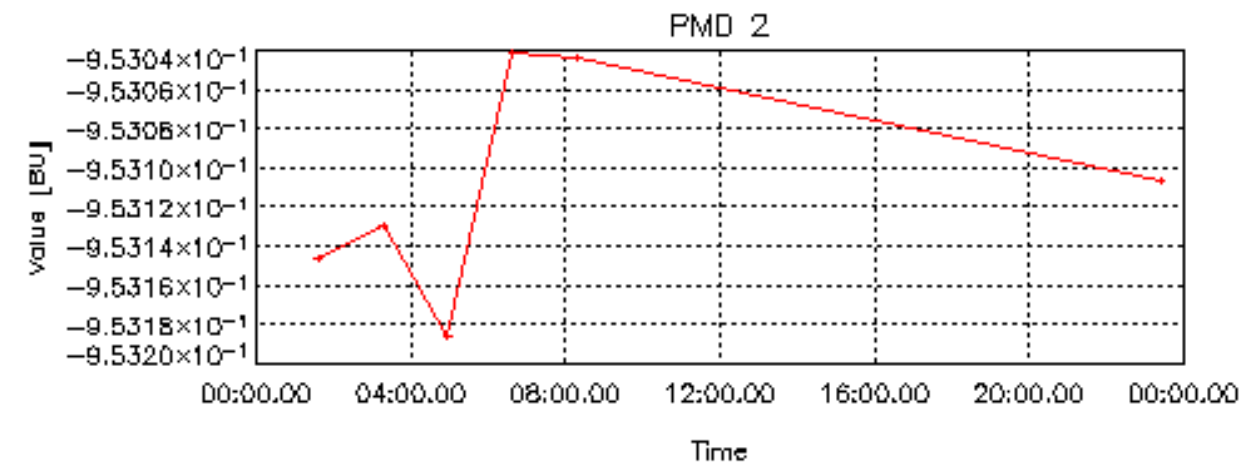
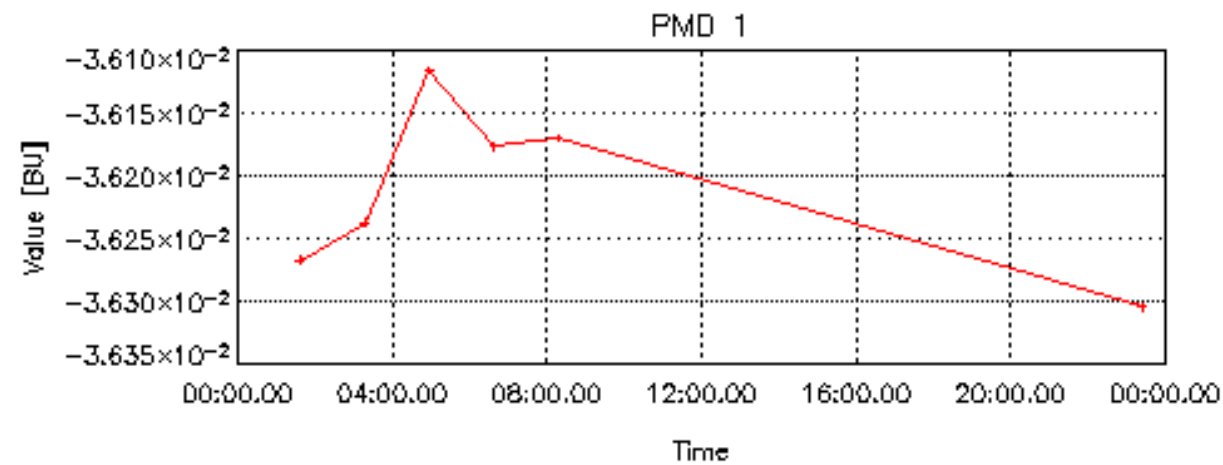
Plots of SCINL1P_NEWLEA_mean_noise for various detectors on 06APR2008.
Colours indicate the value in BU.



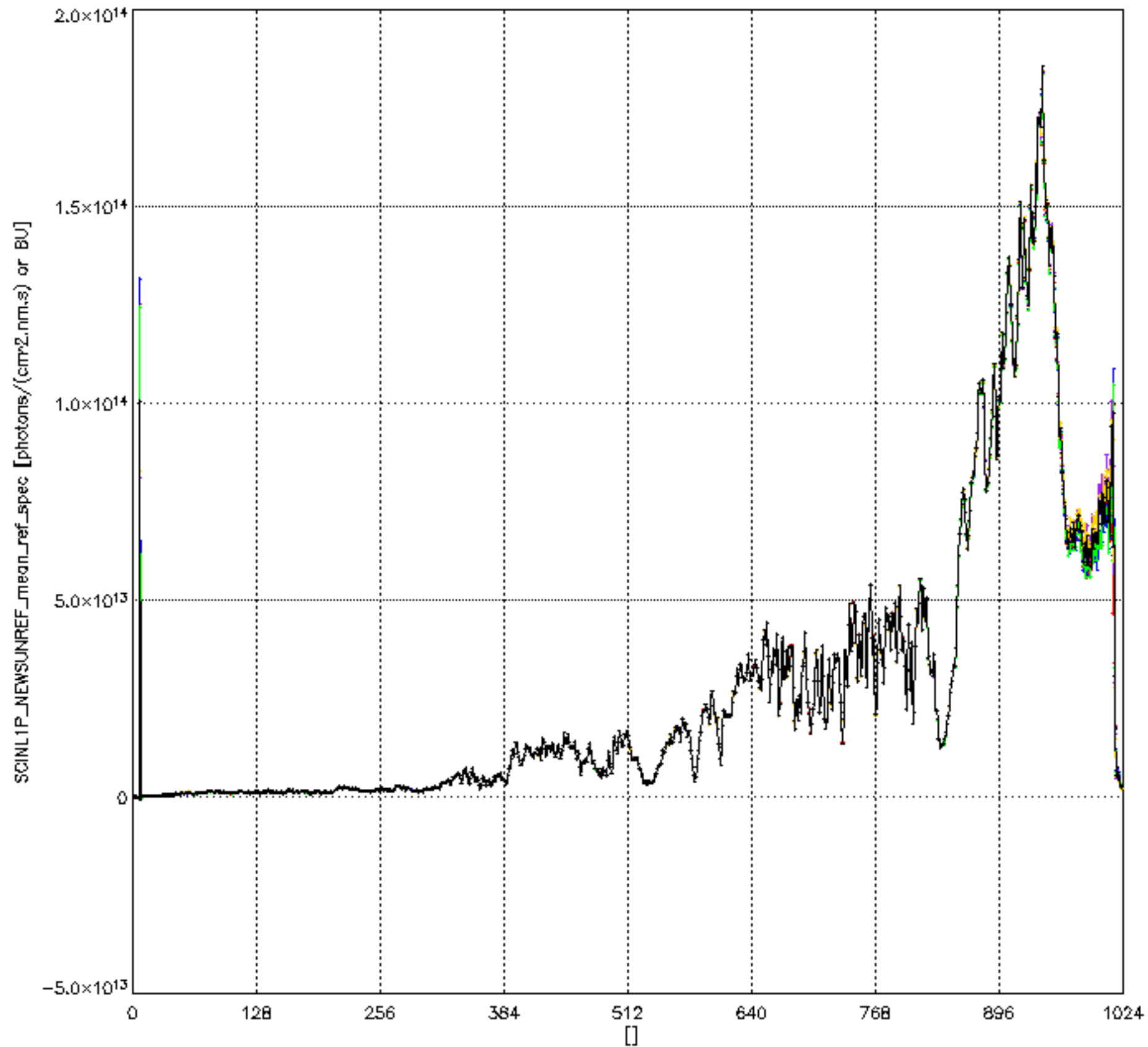
Plots of SCINL1P_NEWLEA_pmd_off vs time on 06APR2008 (red).
Dark average pmd data is given in blue for comparison.



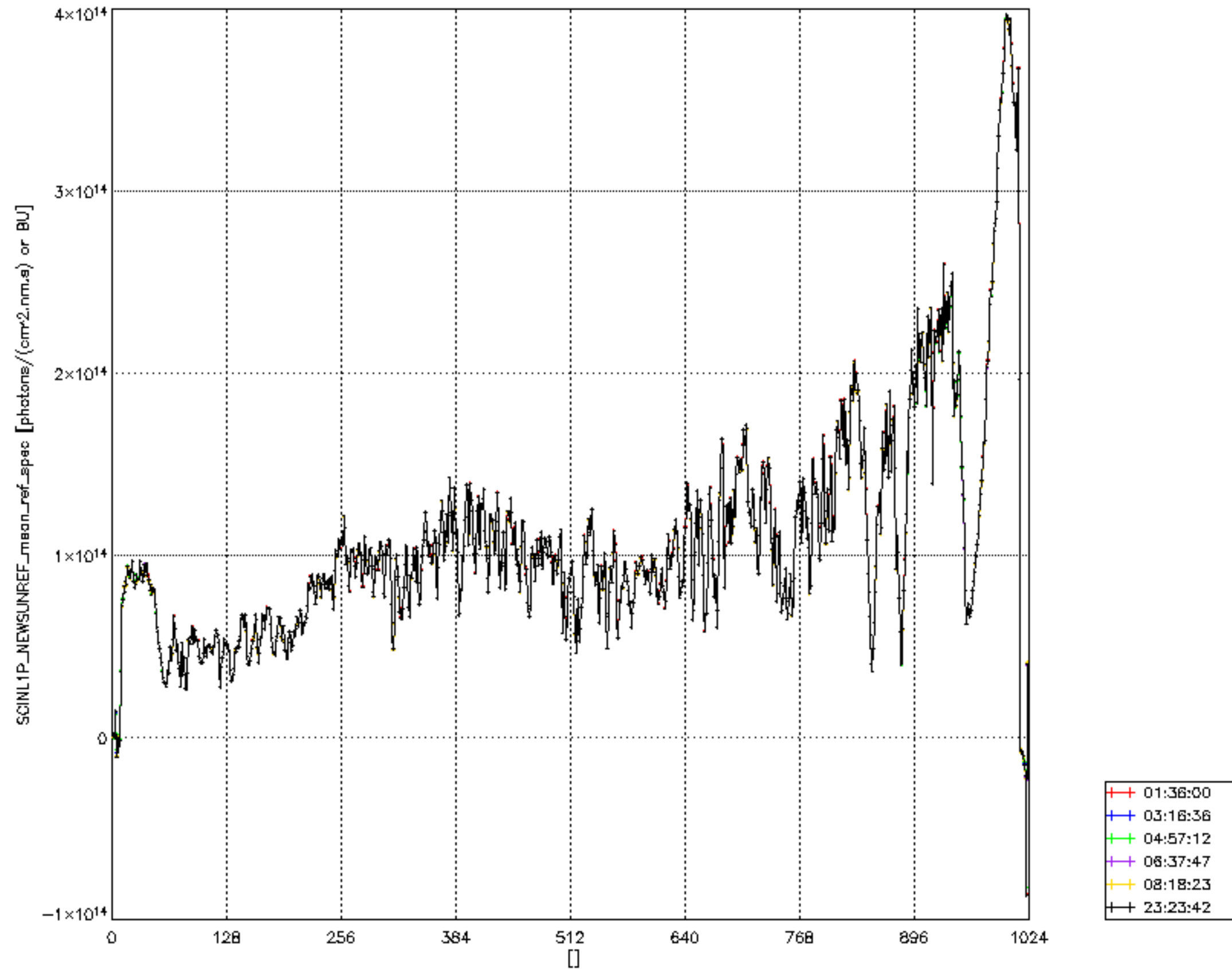


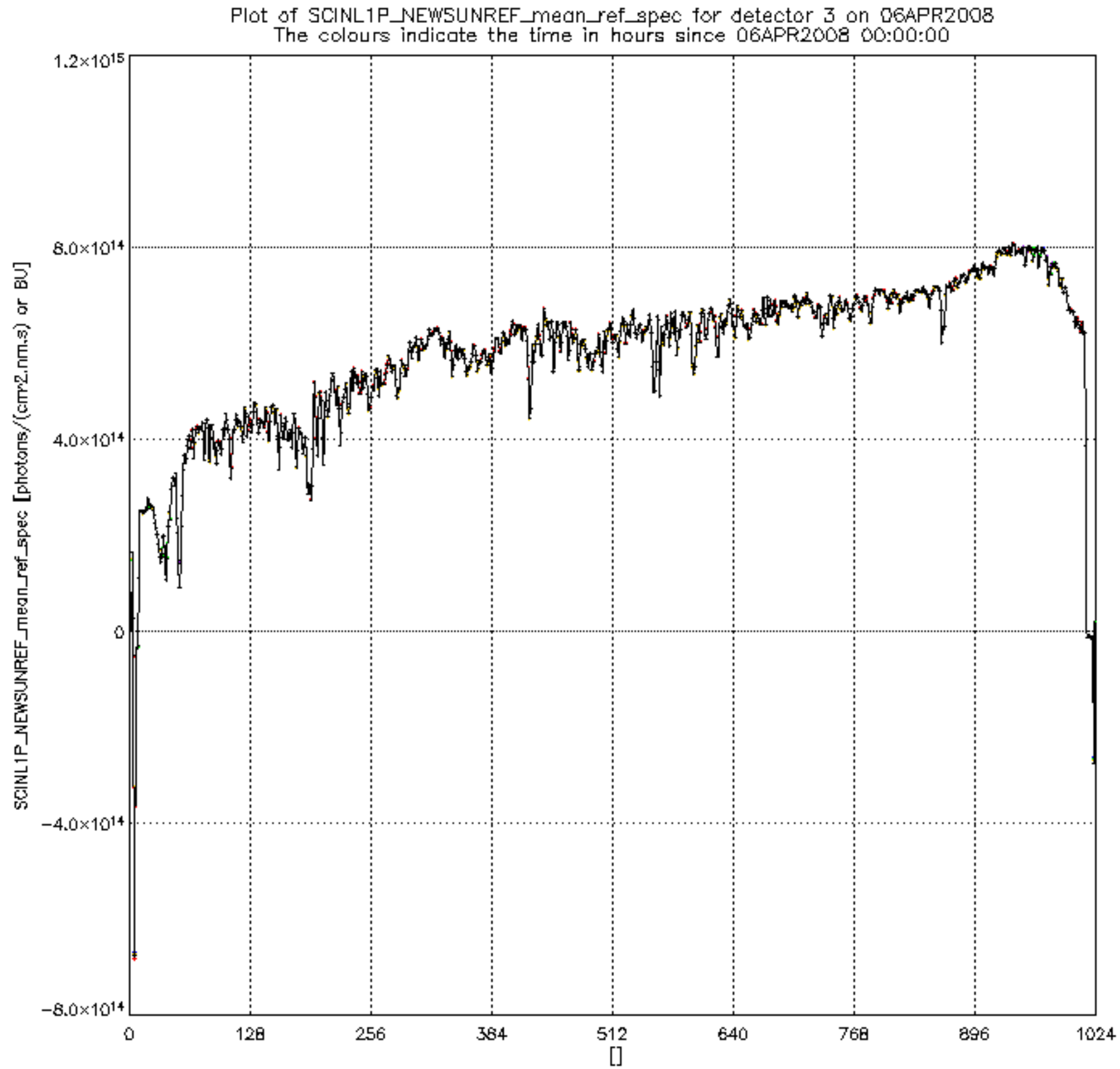


Plot of SCINL1P_NEWSUNREF_mean_ref_spec for detector 1 on 06APR2008
The colours indicate the time in hours since 06APR2008 00:00:00

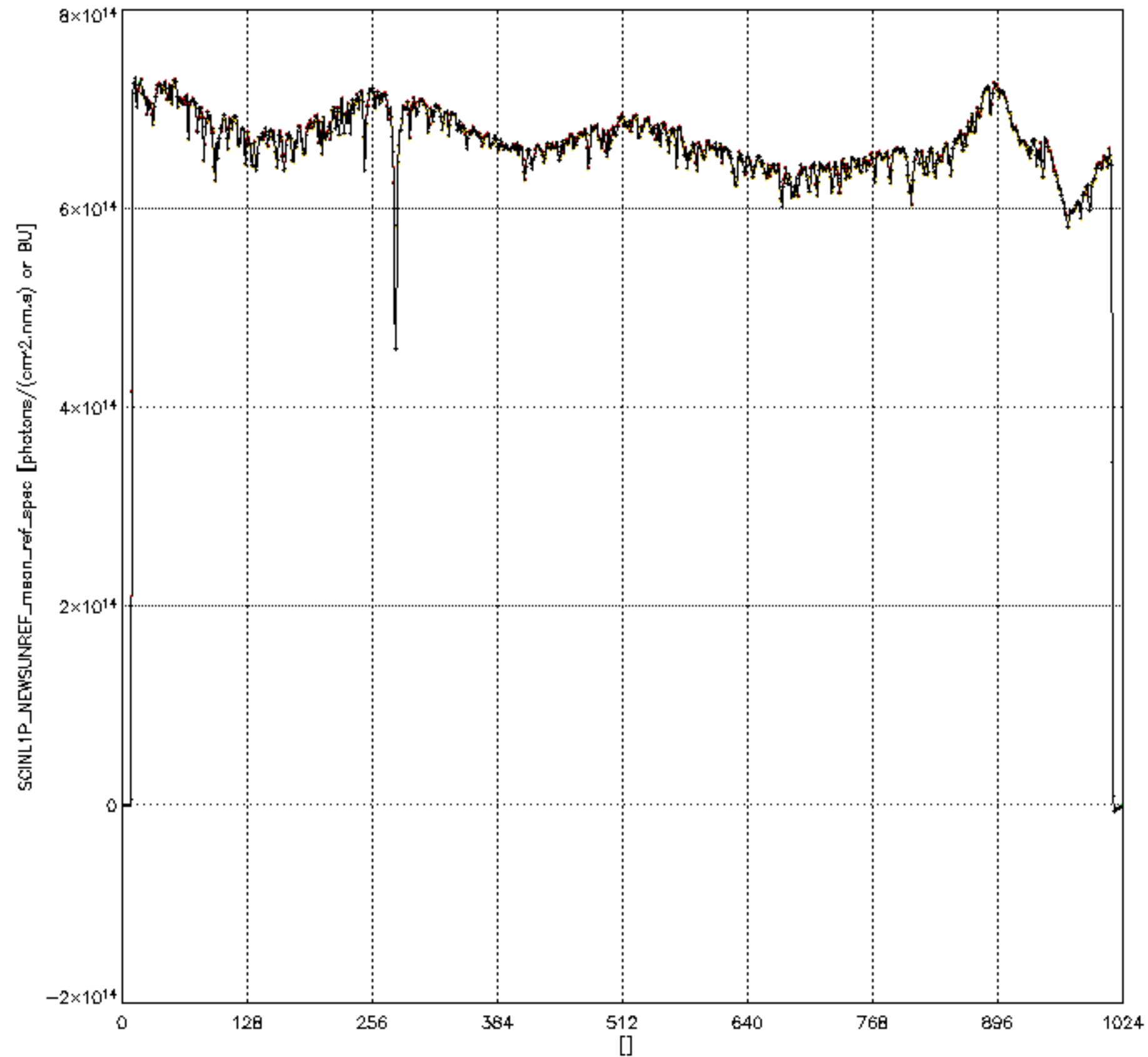


Plot of SCINL1P_NEWSUNREF_mean_ref_spec for detector 2 on 06APR2008
The colours indicate the time in hours since 06APR2008 00:00:00

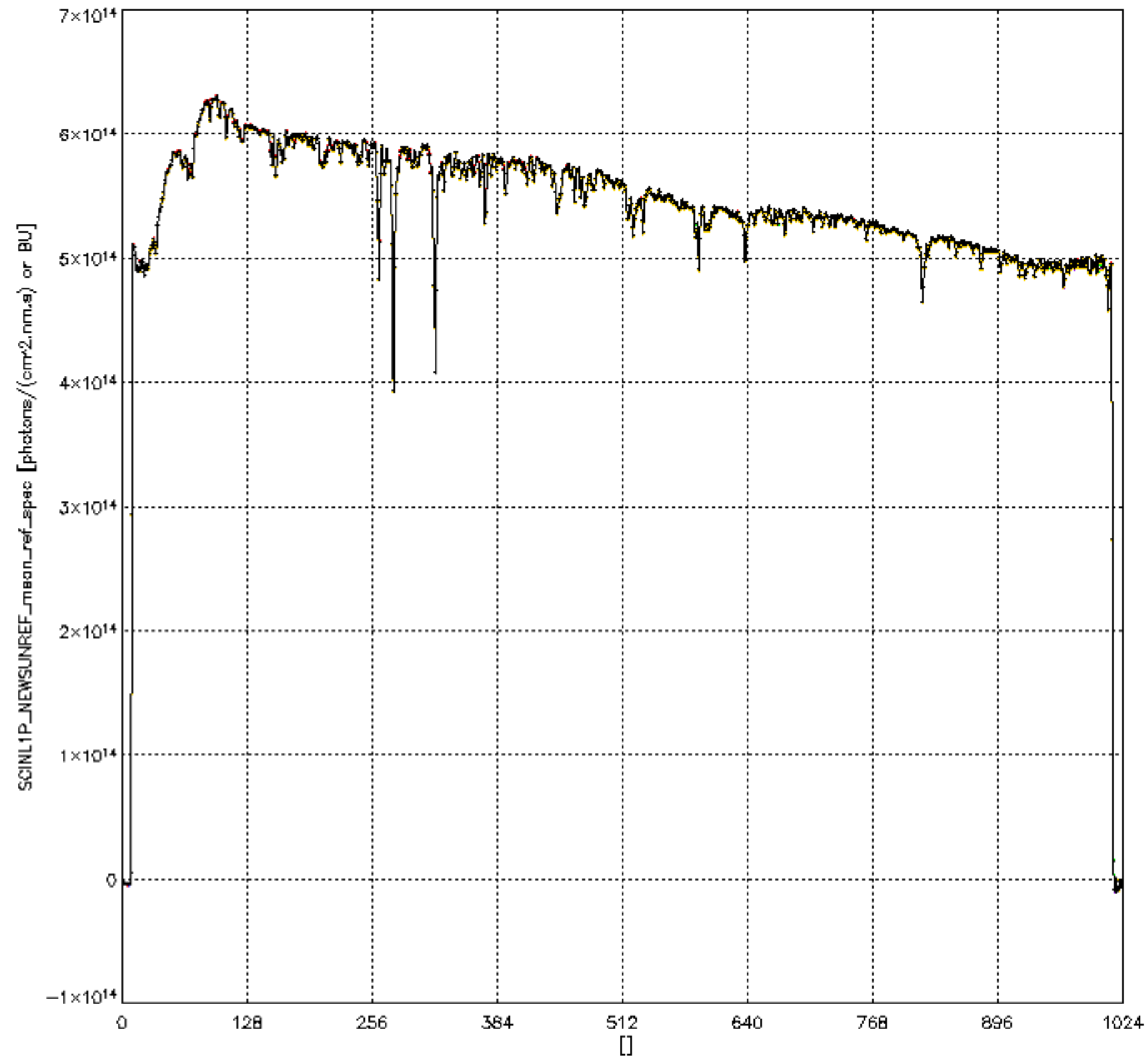


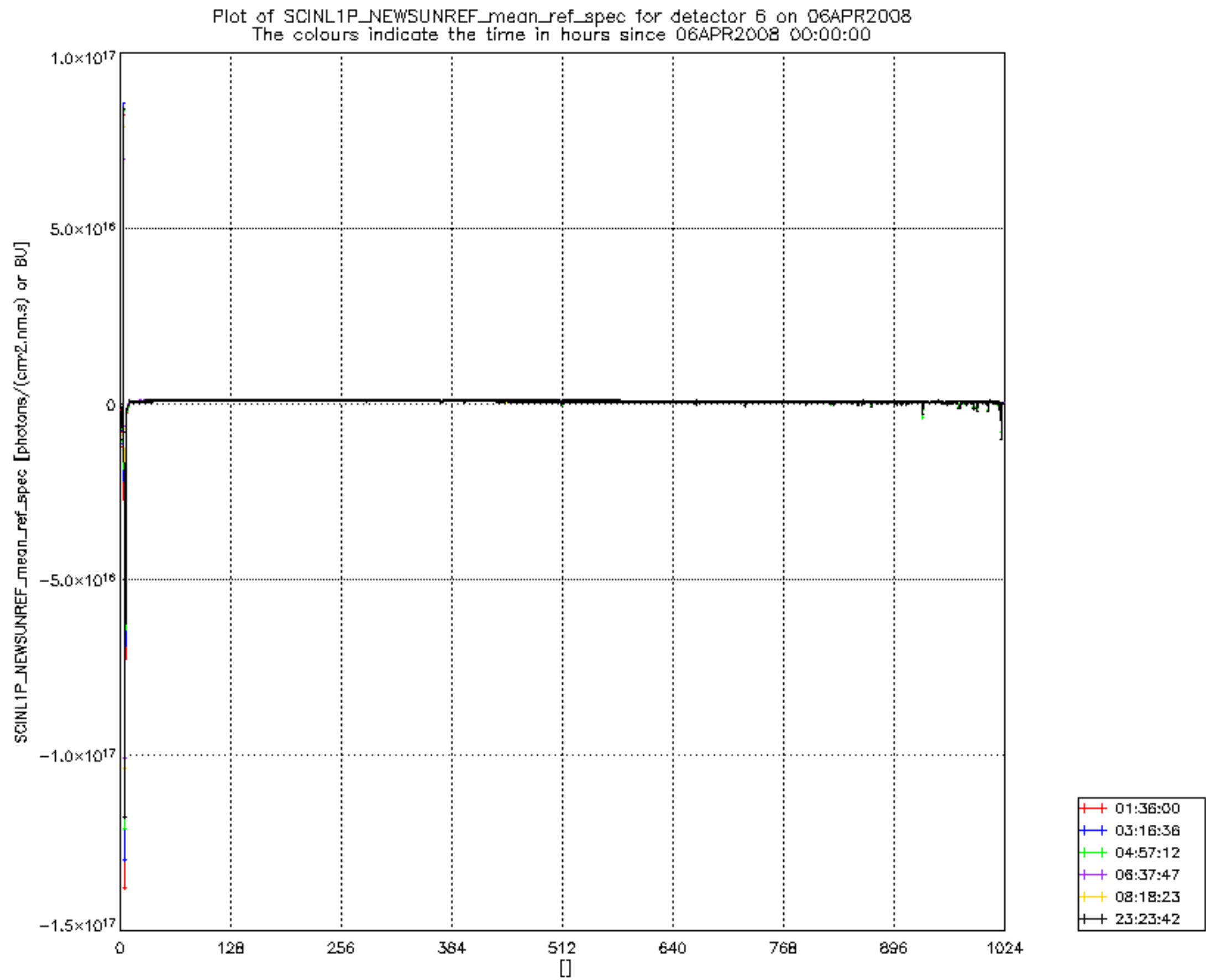


Plot of SCINL1P_NEWSUNREF_mean_ref_spec for detector 4 on 06APR2008
The colours indicate the time in hours since 06APR2008 00:00:00

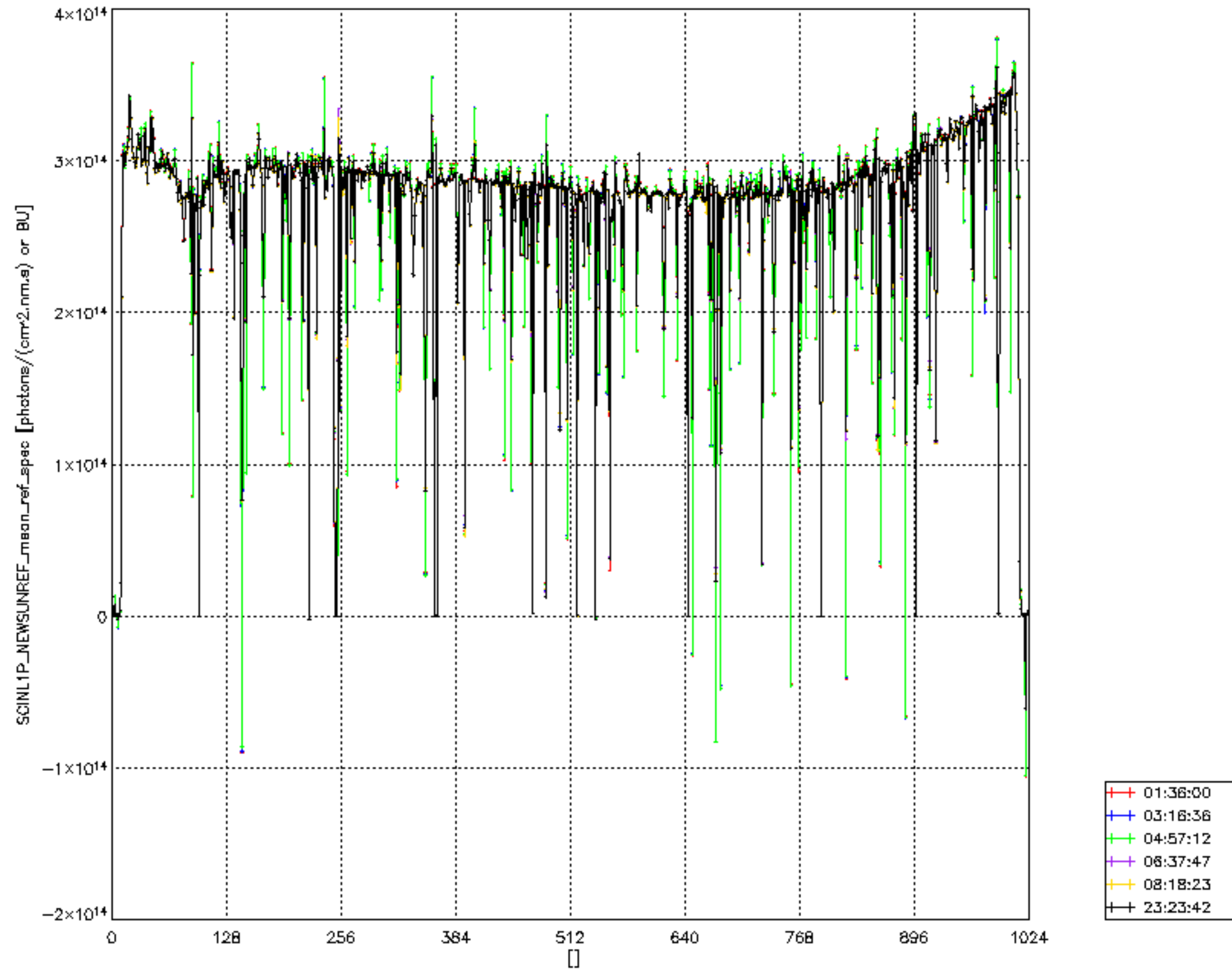


Plot of SCINL1P_NEWSUNREF_mean_ref_spec for detector 5 on 06APR2008
The colours indicate the time in hours since 06APR2008 00:00:00

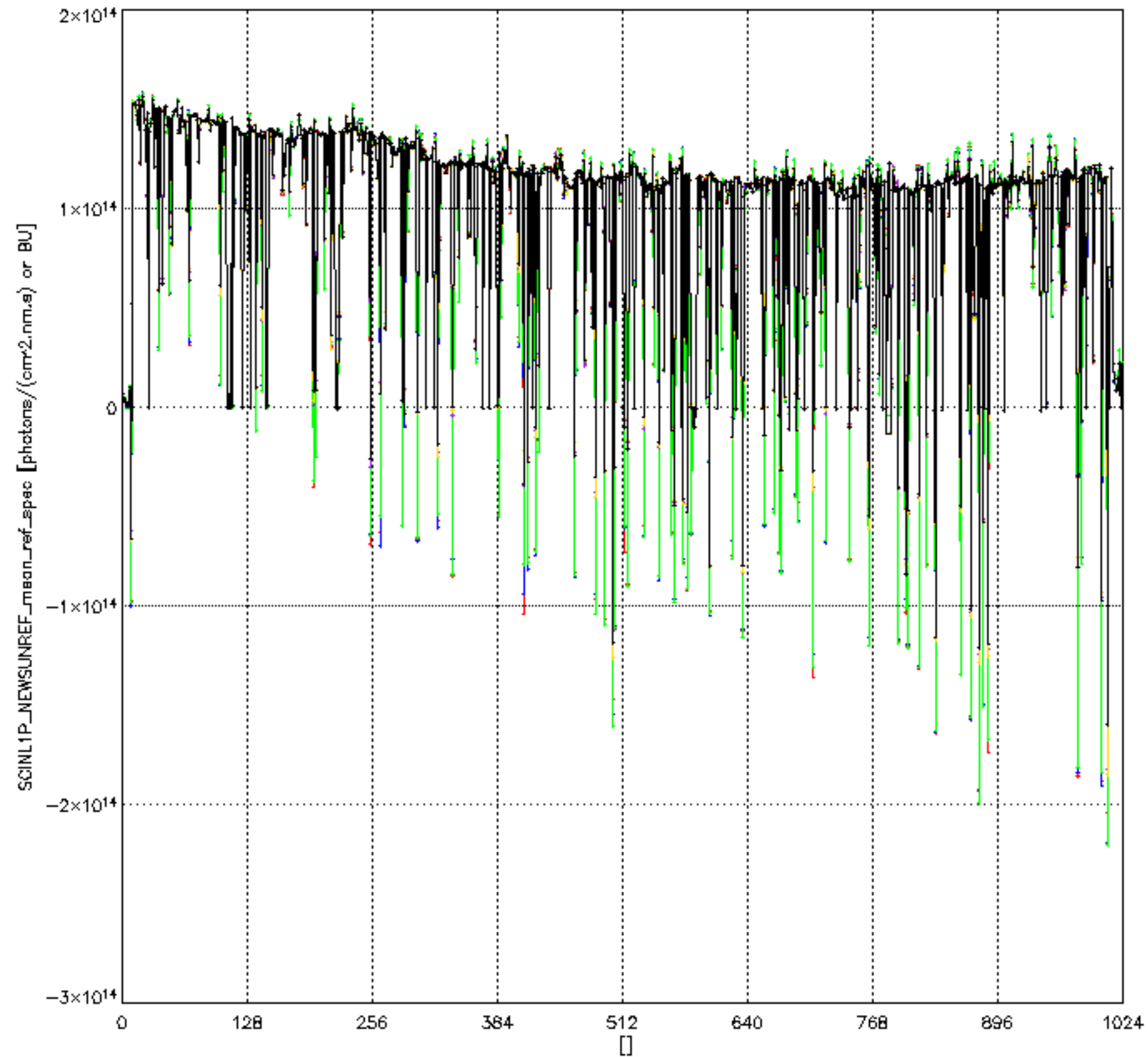


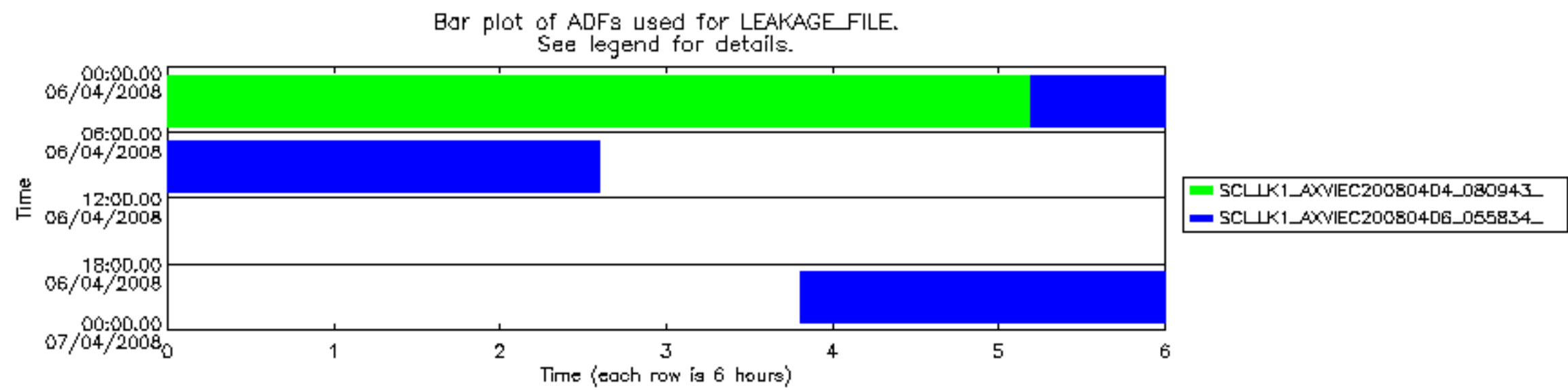


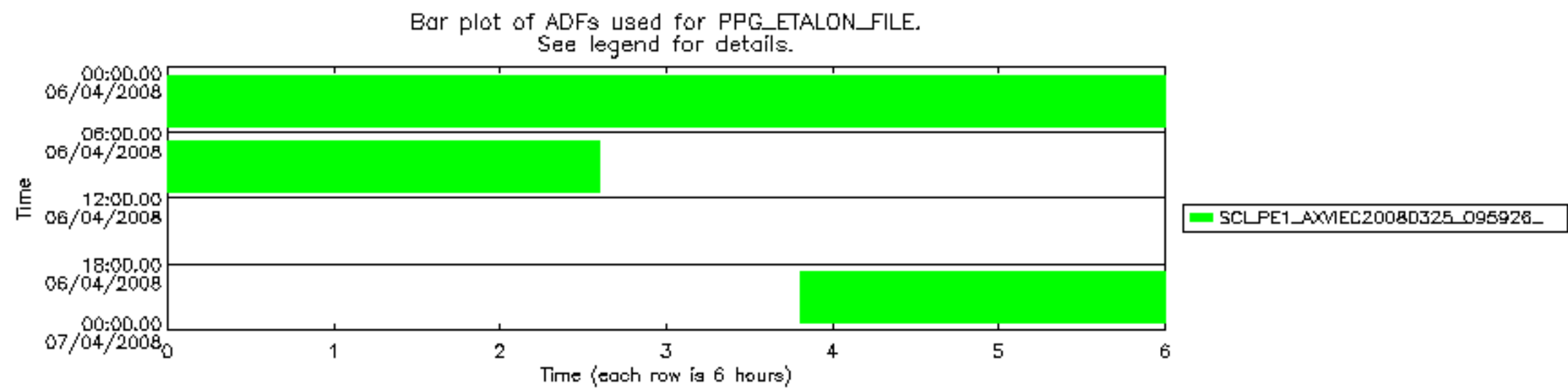
Plot of SCINL1P_NEWSUNREF_mean_ref_spec for detector 7 on 06APR2008
The colours indicate the time in hours since 06APR2008 00:00:00

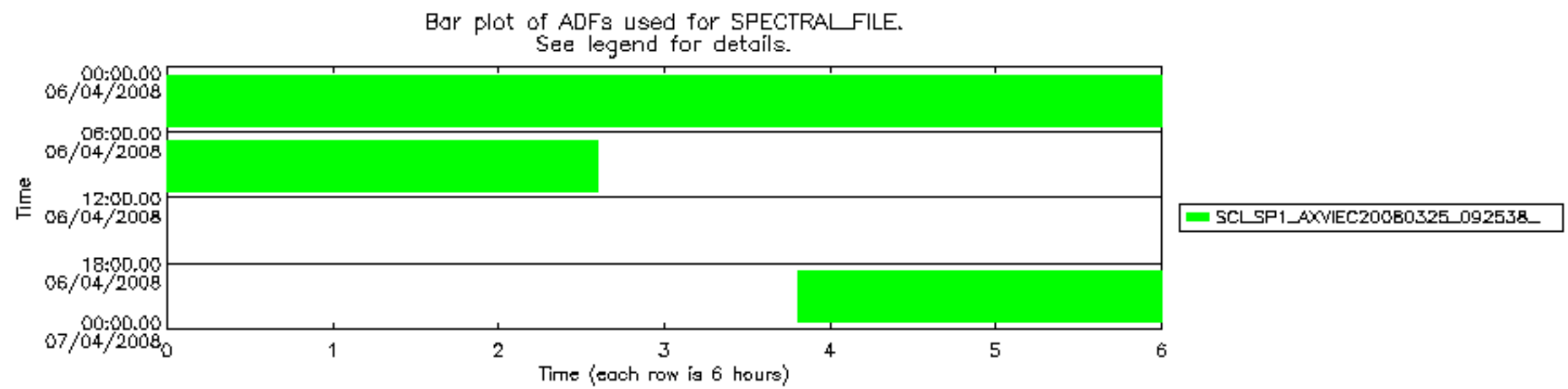


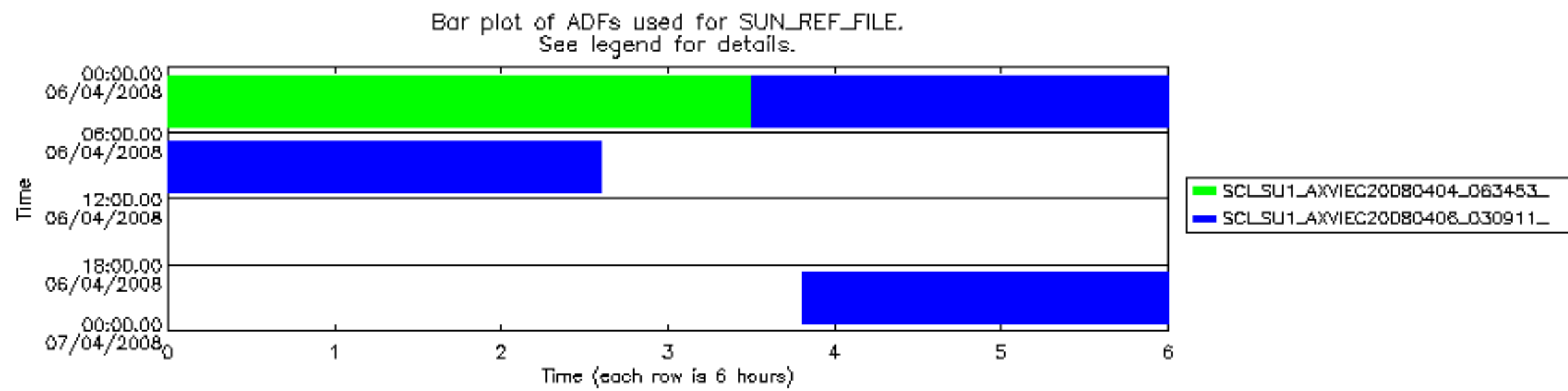
Plot of SCINL1P_NEWSUNREF_mean_ref_spec for detector B on 06APR2008
The colours indicate the time in hours since 06APR2008 00:00:00

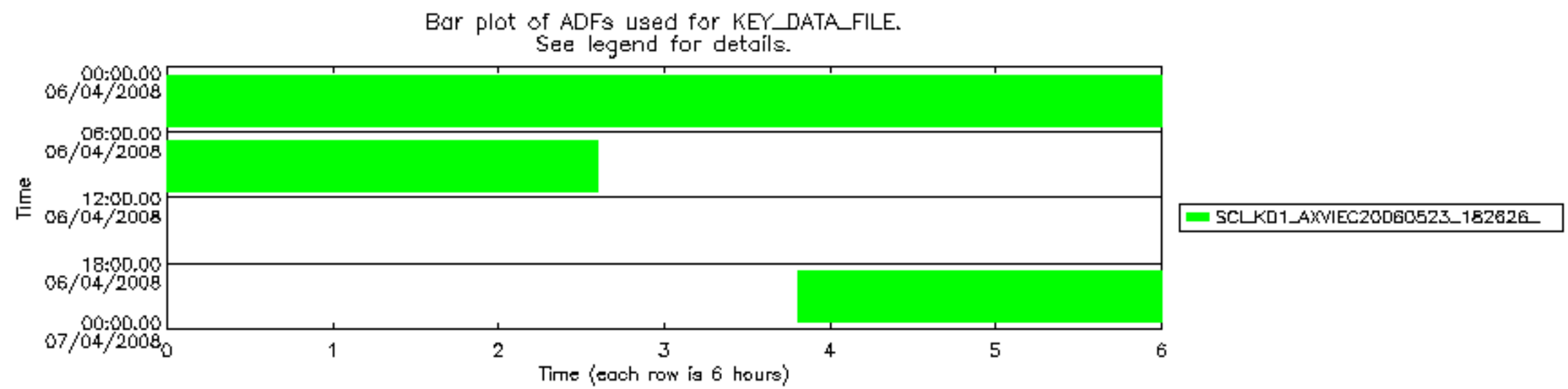


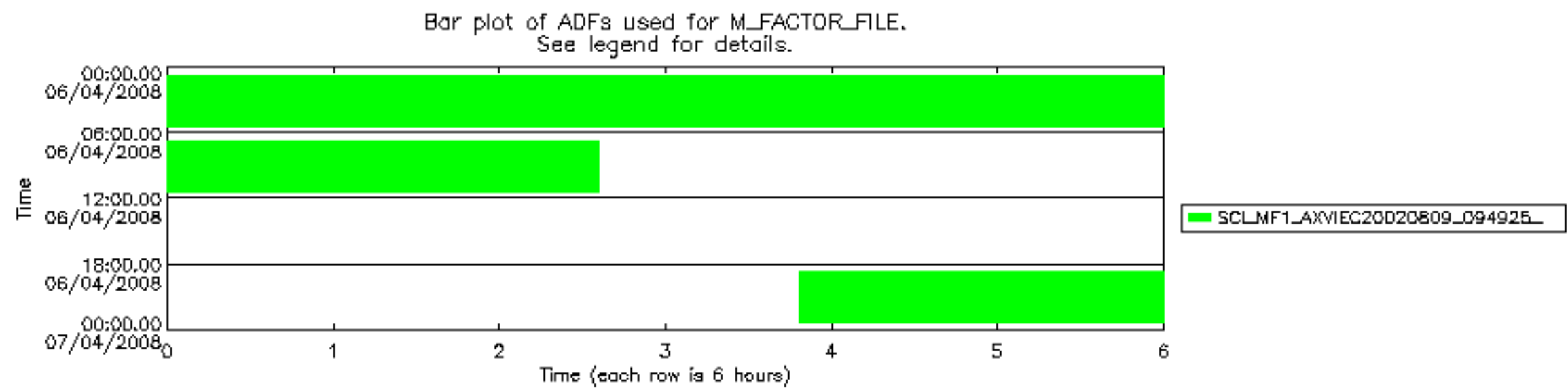


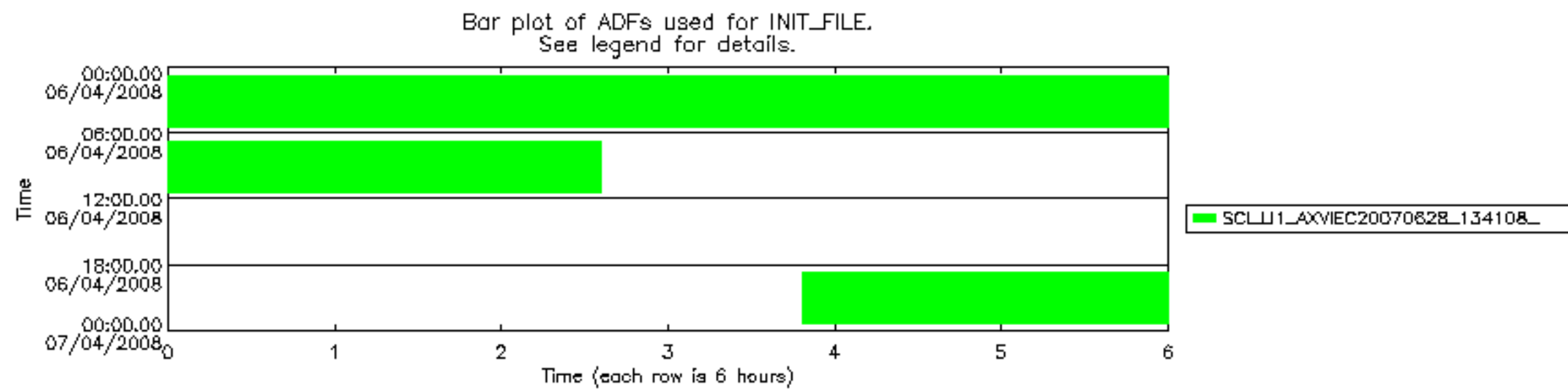


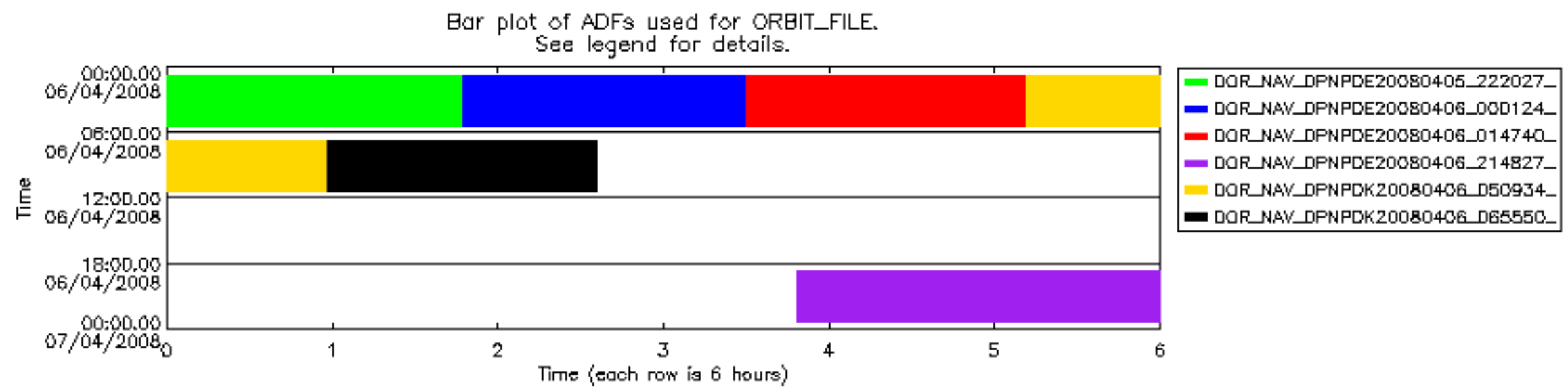


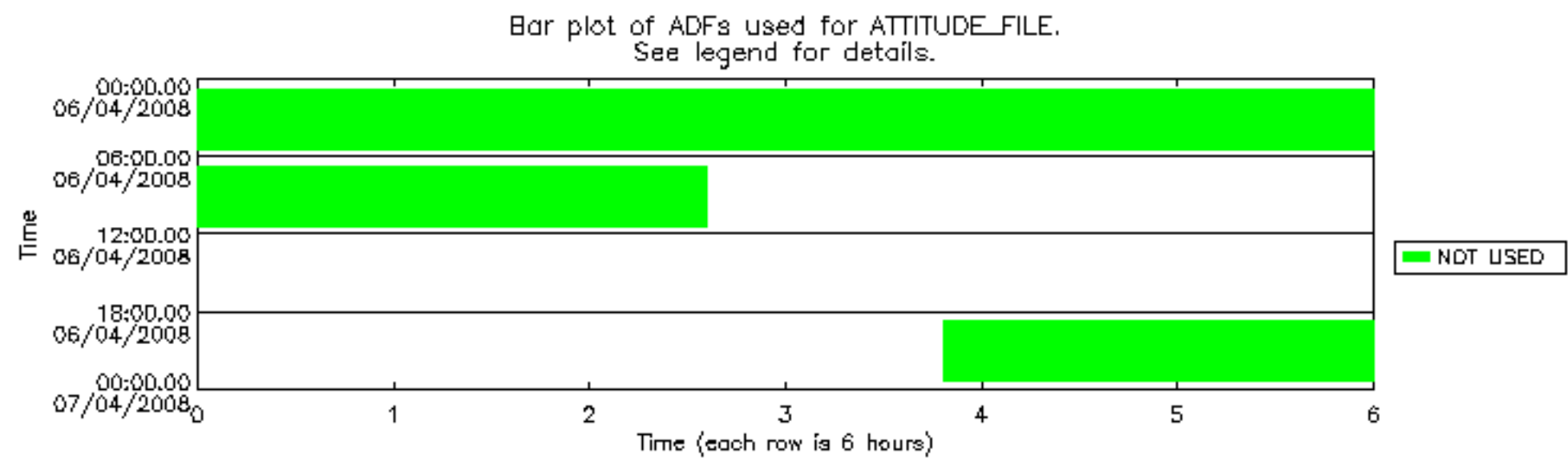












Bar plot of planned DMOP activities and new calibration data for SCIAMACHY.
 Each row indicates an orbit. A light gray colour indicates the time span of 06APR2008.
 A medium gray color indicates the time span of available SCI_NL_1P products for this day.
 The remaining colours indicate planned activities and/or special measurements.
 Planned activities are shown on the top half of each row, special measurements on the bottom half.

