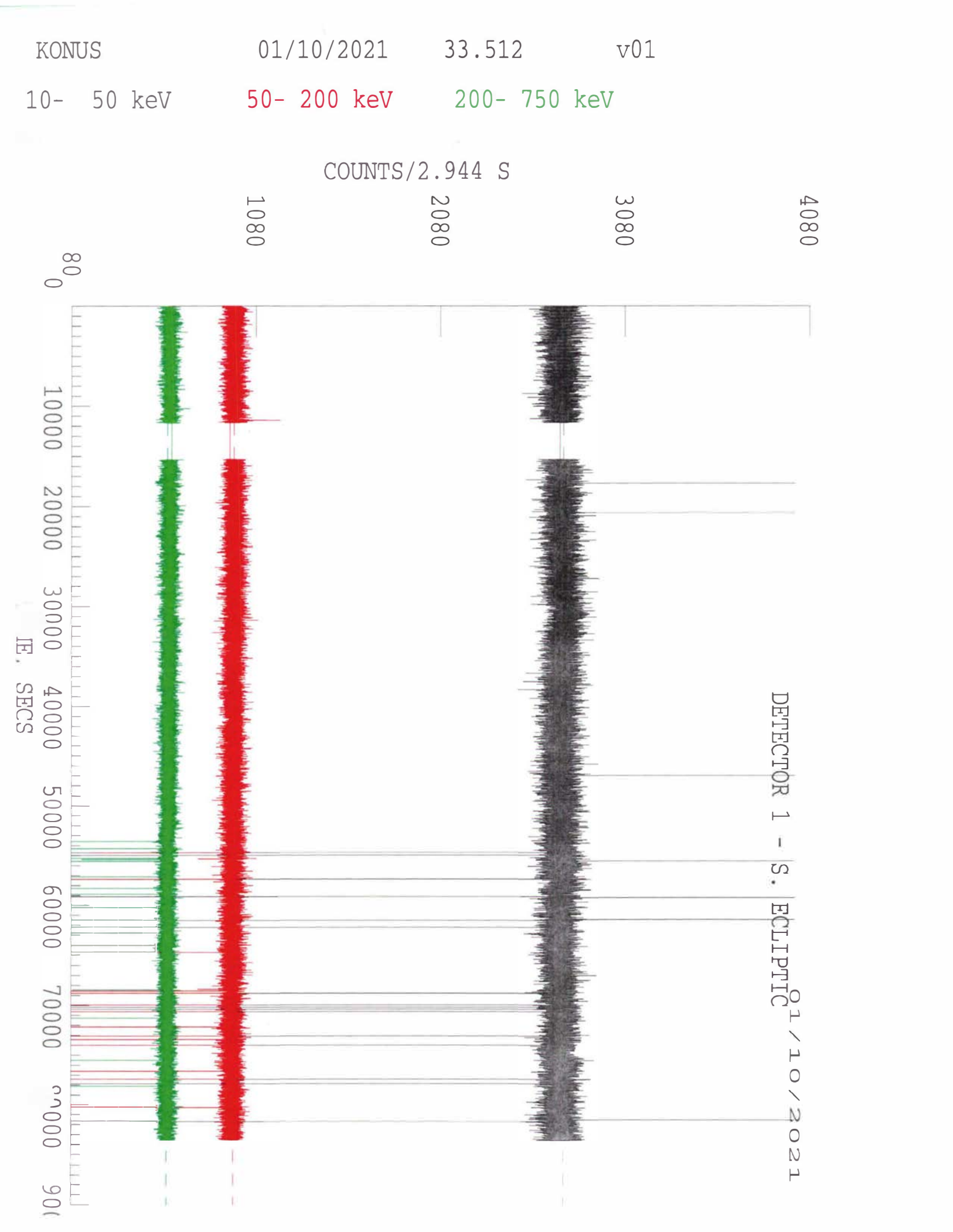
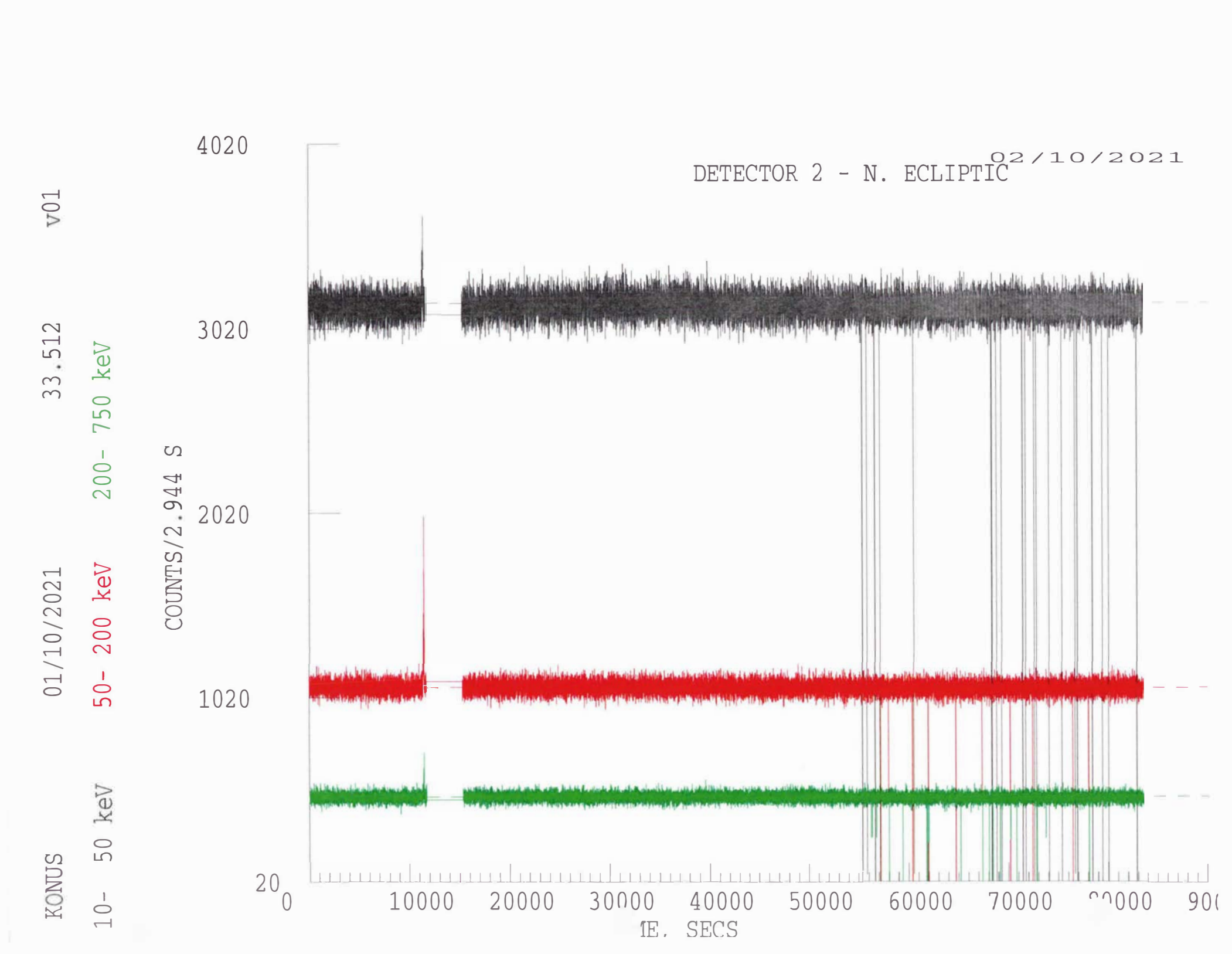

KONUS 01/10/2021 33.512 v01
10- 50 keV 50- 200 keV 200- 750 keV
COUNTS/2.944 S
80
1080
2080
3080
4080
0
10000
20000
30000
40000
50000
60000
70000
IE, SECS
DETECTOR 1 - S. ECLIPTIC 01/10/2021


KONUS
01/10/2021
33.512
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4020
3020
2020
1020
20
0
10000
20000
30000
40000
50000
60000
70000
DETECTOR 2 - N. ECLIPTIC
02/10/2021
TE, SECS

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Fri Oct 1 11:03:04
Date: Fri, 1 Oct 2021 14:03:00 -0400
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: SGR 1935+2154: Swift/BAT-GUANO detection and arcminute localization

TITLE: GCN CIRCULAR
NUMBER: 30916
SUBJECT: SGR 1935+2154: Swift/BAT-GUANO detection and arcminute localization
DATE: 21/10/01 18:01:34 GMT
FROM: Aaron Tohuvavohu at U Toronto <aaron.tohu@gmail.com>

Aaron Tohuvavohu (U Toronto), James DeLaunay (PSU), Gayathri Raman (PSU), Jamie A. Kennea (PSU) report:

Swift/BAT did not localize SGR 1935+2154 (T0: 2021-10-01 00:04:04.3 UTC, Fermi/GBM trigger # 654739449) onboard.

The Fermi/GBM notice, distributed in near real-time, triggered the Swift Mission Operations Center operated Gamma-ray Urgent Archiver for Novel Opportunities (GUANO; Tohuvavohu et al. 2020, ApJ, 900, 1).

Upon trigger by this notice, GUANO sent a command to the Swift Burst Alert Telescope (BAT) to save 200 seconds of BAT event-mode data from [-50,+150] seconds around the time of the burst. All the requested event mode data was delivered to the ground.

The BAT likelihood search, NITRATES (DeLaunay + Tohuvavohu, in prep), detects a burst and localizes it to the position of SGR 1935+2154. The burst is detected in BAT with a duration of less than 64 ms.

This position is consistent with the Ferm/GBM localization.

GUANO is a fully autonomous, extremely low latency, spacecraft commanding pipeline designed for targeted recovery of BAT event mode data around the times of compelling astrophysical events to enable more sensitive GRB searches.

A live reporting of Swift/BAT event data recovered by GUANO can be found at: https://www.swift.psu.edu/guano/

Subject: Re: BAT lightcurve for trigger at 211001_0004
From: Aaron Tohuvavohu <aaron.tohu@gmail.com>
Date: 10/1/2021, 10:53 AM
To: "<palmer+automatic_lightcurve@lanl.gov>" <palmer+automatic_lightcurve@lanl.gov>
CC: IPN <ipn@ssl.berkeley.edu>, David Palmer <dmopalmer@gmail.com>, bat_team@bigbang.gsfc.nasa.gov, gbm-burst-advocate@lists.nasa.gov, Noel Klingler <noelklin@umbc.edu>

guano nitrates detects + localizes a flare from SGR 1935+2154. onboard imaging did not find.

On Thu, Sep 30, 2021 at 11:07 PM <palmer+automatic_lightcurve@lanl.gov> wrote:

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

% /Users/palmer/anaconda3/envs/stable/bin/swinfo -o 654739472.162 -s 296.867_18.417
Swift Zenith(RA,dec): 261.80, -19.08
Swift Location(lon,lat,alt): -108.84 E, -19.10 N, 547 km
Time(MET + UTCF -> UT): 654739472.162 + -27.821 -> 2021-10-01T00:04:04.341
YYMMDD_SOD: 211001_00244.341 DOY=274
Obs Sequence Number: 00014848002
Obs Target Name: AT2021zzf
Obs Date and Times: 2021-09-30 23:59:34 - 00:09:32
Obs Pointing(ra,dec,roll): 245.445, 40.445, 249.06
296.867_18.417_imageloc (boresight_dist, angle): (49, 122)
296.867_18.417_exposure (cm^2 cos adjusted): 0
296.867_18.417_altitude: 62 (up)

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

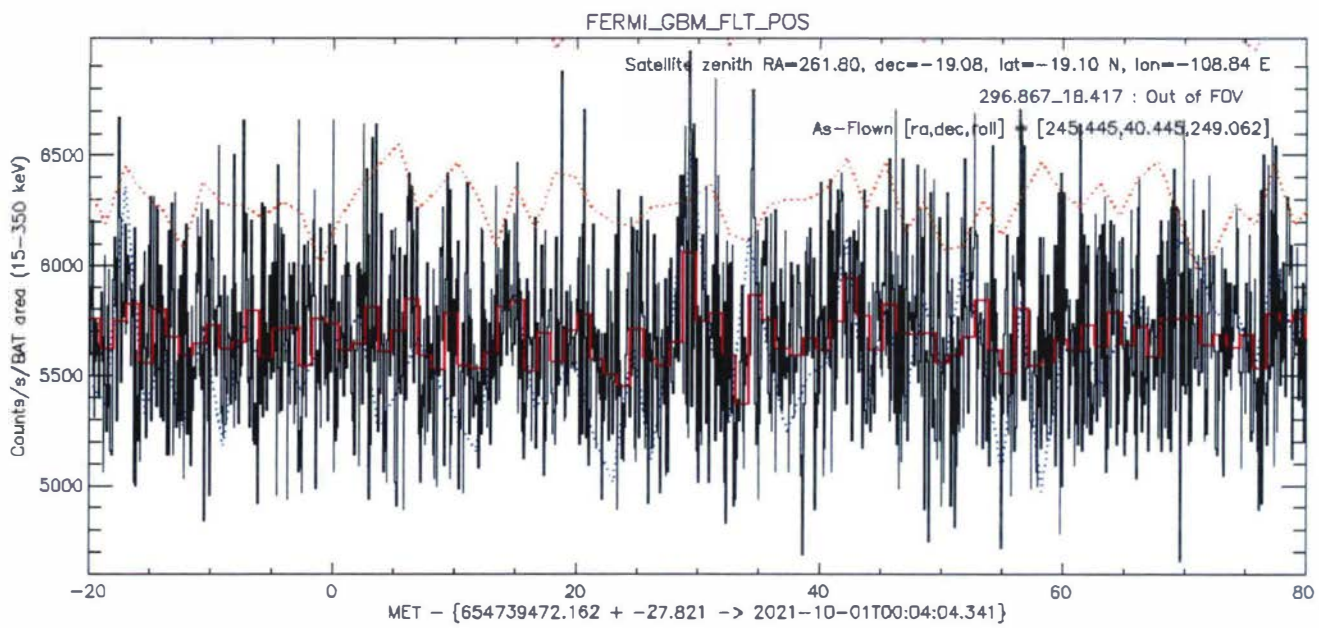
Subject: BAT lightcurve for trigger at 211001_0004
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 9/30/2021, 8:07 PM
To: ipn@ssl.berkeley.edu, palmer+automatic_lightcurve@lanl.gov, dmopalmer@gmail.com, aaron.tohu@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov, gbm-burst-advocate@lists.nasa.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 654739472.162 -s 296.867_18.417
Swift Zenith(RA,dec):          261.80, -19.08
Swift Location(lon,lat,alt):  -108.84 E, -19.10 N, 547 km
Time(MET + UTCF -> UT):    654739472.162 + -27.821 -> 2021-10-01T00:04:04.341
YYMMDD_SOD:                    211001_00244.341       DOY=274
Obs Sequence Number:           00014848002
Obs Target Name:               AT2021zzf
Obs Date and Times:            2021-09-30   23:59:34 - 00:09:32
Obs Pointing(ra,dec,roll):     245.445, 40.445, 249.06
296.867_18.417_imageloc (boresight_dist, angle): (49, 122)
296.867_18.417_exposure (cm^2 cos adjusted): 0
296.867_18.417_altitude: 62 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

—/tmp/swift/211001_0004.png



—Attachments:

/tmp/swift/211001_0004_bat64ms_ipn	87.0 KB
/tmp/swift/211001_0004.png	23.7 KB

Subject: GCN/SWIFT_BAT_LIGHTCURVE
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
Date: 9/30/2021, 5:47 PM
To: khurley@ssl.berkeley.edu

```
TITLE:           GCN/SWIFT NOTICE
NOTICE_DATE:     Fri 01 Oct 21 00:47:24 UT
NOTICE_TYPE:     Swift-BAT GRB Lightcurve
TRIGGER_NUM:     1076121,   Seg_Num: 0
GRB_RA:           71.470d {+04h 45m 53s} (J2000),
                  71.774d {+04h 47m 06s} (current),
                  70.774d {+04h 43m 06s} (1950)
GRB_DEC:         +12.040d {+12d 02' 26"} (J2000),
                 +12.079d {+12d 04' 43"} (current),
                 +11.950d {+11d 57' 02"} (1950)
GRB_DATE:        19488 TJD;   274 DOY;   21/10/01
GRB_TIME:        2599.85 SOD {00:43:19.85} UT
TRIGGER_INDEX:   10416
GRB_PHI:          18.67 [deg]
GRB_THETA:        20.02 [deg]
DELTA_TIME:      -46.00 [sec]
TRIGGER_DUR:     0.064 [sec]
SOLN_STATUS:     0x83
RATE_SIGNIF:     9.89 [sigma]
IMAGE_SIGNIF:    6.54 [sigma]
LC_URL:          sw01076121000msb.lc
SUN_POSTN:       187.42d {+12h 29m 40s}   -3.20d {-03d 12' 06"}
SUN_DIST:        115.73 [deg]   Sun_angle= 7.7 [hr] (West of Sun)
MOON_POSTN:      122.98d {+08h 11m 56s}  +24.38d {+24d 23' 00"}
MOON_DIST:        49.88 [deg]
MOON_ILLUM:      31 [%]
GAL_COORDS:      186.34,-20.99 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS:       71.59,-10.22 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS:        SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS:        The next comments were copied from the BAT_POS Notice:
COMMENTS:        This is a rate trigger.
COMMENTS:        A point_source was found.
COMMENTS:        This does not match any source in the on-board catalog.
COMMENTS:        This does not match any source in the ground catalog.
COMMENTS:        This is a GRB.
COMMENTS:        Since the IMAGE_SIGNIF is less than 7 sigma, this is a questionable detection.
COMMENTS:        This trigger occurred at longitude,latitude = 26.49,20.06 [deg].
```

Subject: Swift Trigger 1076121 is not a GRB
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Date: 9/30/2021, 6:06 PM
To: khurley@ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 30905
SUBJECT: Swift Trigger 1076121 is not a GRB
DATE: 21/10/01 01:06:32 GMT
FROM: David Palmer at LANL <palmer@lanl.gov>

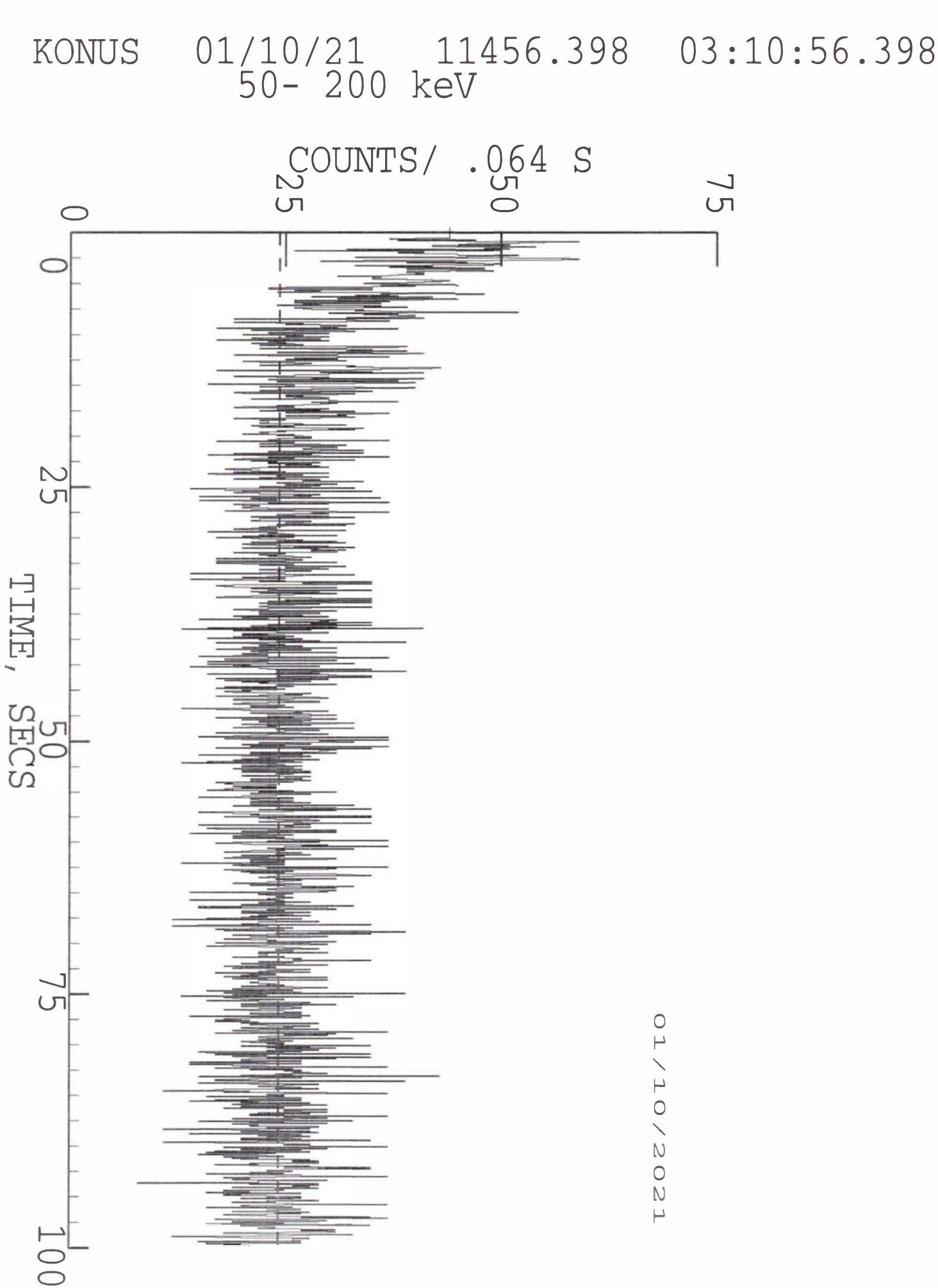
E. Ambrosi (INAF-IASFPA), A. D'Ai (INAF-IASFPA),
V. D'Elia (SSDC & INAF-OAR), J.D. Gropp (PSU), S. Laha (GSFC/UMBC),
F. E. Marshall (NASA/GSFC), D. M. Palmer (LANL) and M. H. Siegel (PSU)
report on behalf of the Neil Gehrels Swift Observatory Team:

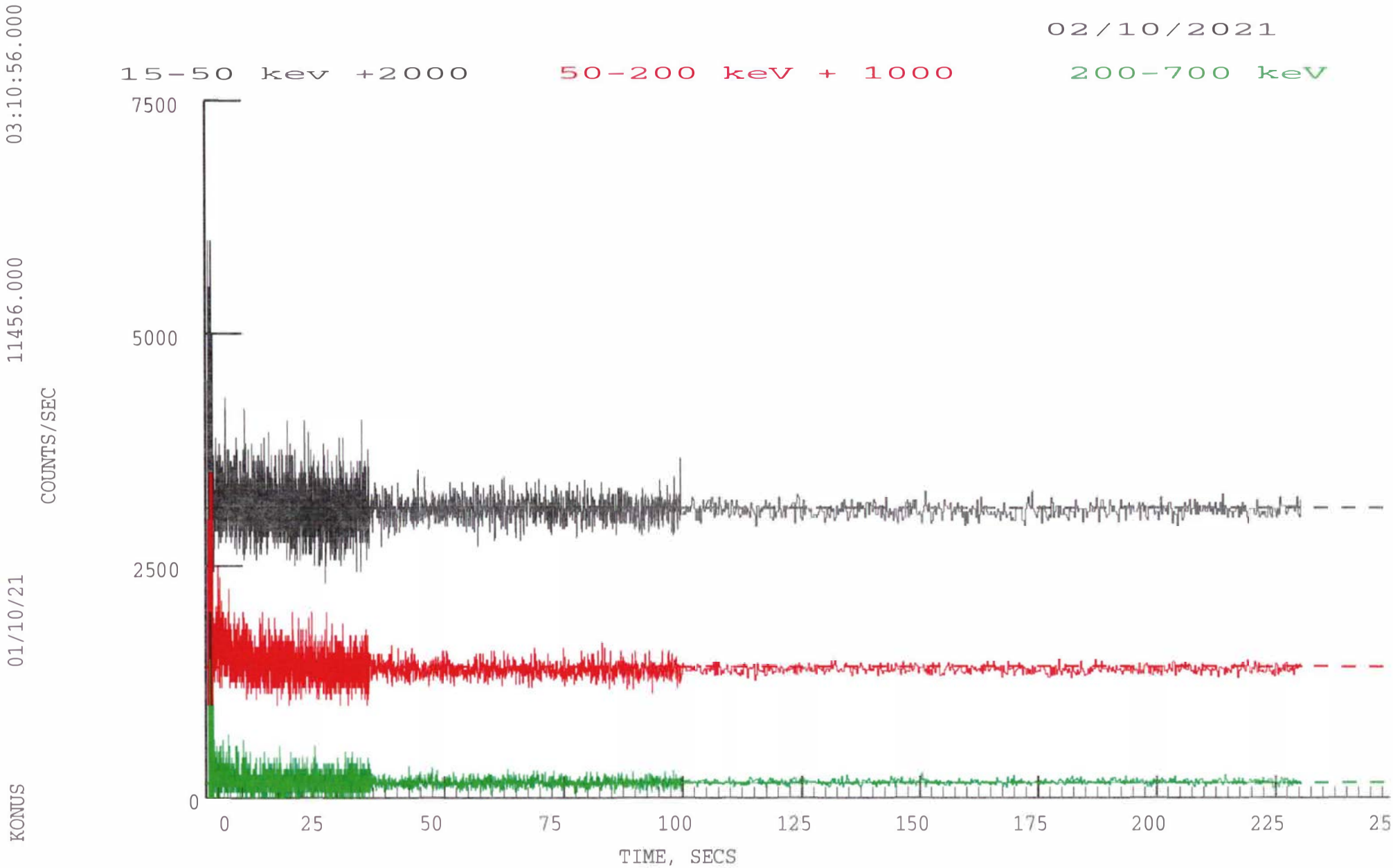
At 00:43:19 UT, the Swift Burst Alert Telescope (BAT) triggered and
located a marginal peak (trigger=1076121). Swift slewed immediately
to the location. The BAT on-board calculated location is
RA, Dec 71.470, +12.040 which is
RA(J2000) = 04h 45m 53s
Dec(J2000) = +12d 02' 26"
with an uncertainty of 3 arcmin (radius, 90% containment, including
systematic uncertainty). The BAT light curve does not show
any significant activity.

The XRT began observing the field at 00:44:28.8 UT, 69.2 seconds after
the BAT trigger. No source was detected in 461 s of promptly downlinked
data. We are waiting for the full dataset to detect and localise the
XRT counterpart.

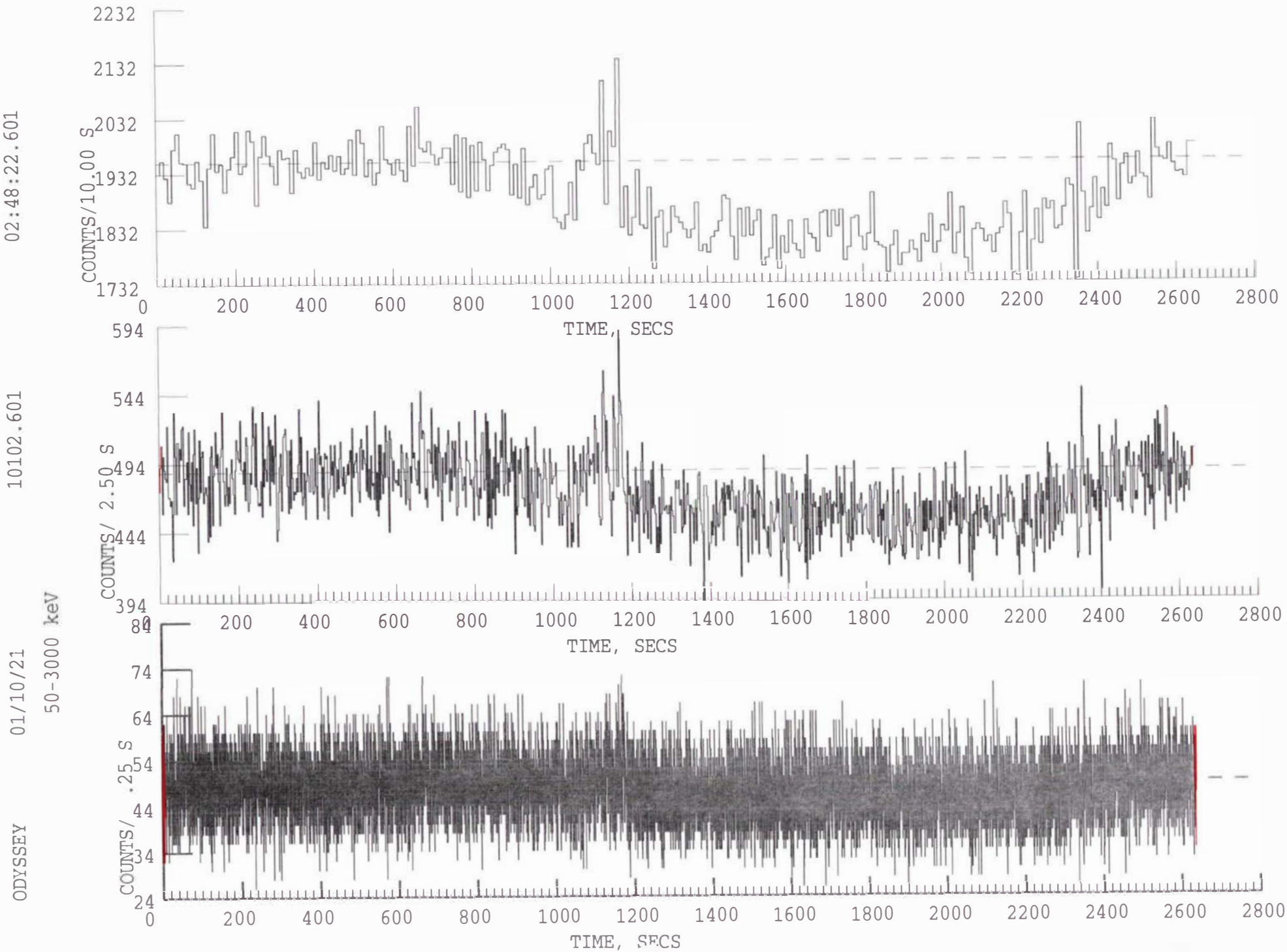
UVOT took a finding chart exposure of 250 seconds with the U filter starting
284 seconds after the BAT trigger. No credible afterglow candidate has been
found in the initial data products. The 2.7'x2.7' sub-image covers 24% of the
BAT error circle. The typical 3-sigma upper limit has been about 19.2 mag. The
8'x8' region for the list of sources generated on-board covers 100% of the BAT
error circle. The list of sources is typically complete to about 18.0 mag. No
correction has been made for the expected extinction corresponding to E(B-V) of
0.411.

Due to the marginal significance of the image peak (6.54 sigma), the
lack of a peak in the light curve, the existence of a noisy pixel in
the BAT detector plane histogram, and the lack of a detection
of a counterpart by XRT, we believe that this trigger is
not due to an astrophysical event.


KONUS 01/10/21 11456.398 03:10:56.398
50- 200 keV
COUNTS/ .064 S
0
25
50
75
0
25
50
75
100
TIME, SECS
01/10/2021


02/10/2021
15-50 kev +2000
50-200 keV + 1000
200-700 keV
7500
5000
2500
0
COUNTS/SEC
0
25
50
75
100
125
150
175
200
225
25
TIME, SECS
KONUS
01/10/21
11456.000
03:10:56.000

04/10/2021


02:48:22.601
10102.601
01/10/21
50-3000 keV
ODYSSEY
COUNTS/10.00 S
2232
2132
2032
1932
1832
1732
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
TIME, SECS
COUNTS/ 2.50 S
594
544
494
444
394
TIME, SECS
COUNTS/ .25 S
84
74
64
54
44
34
24
TIME, SECS

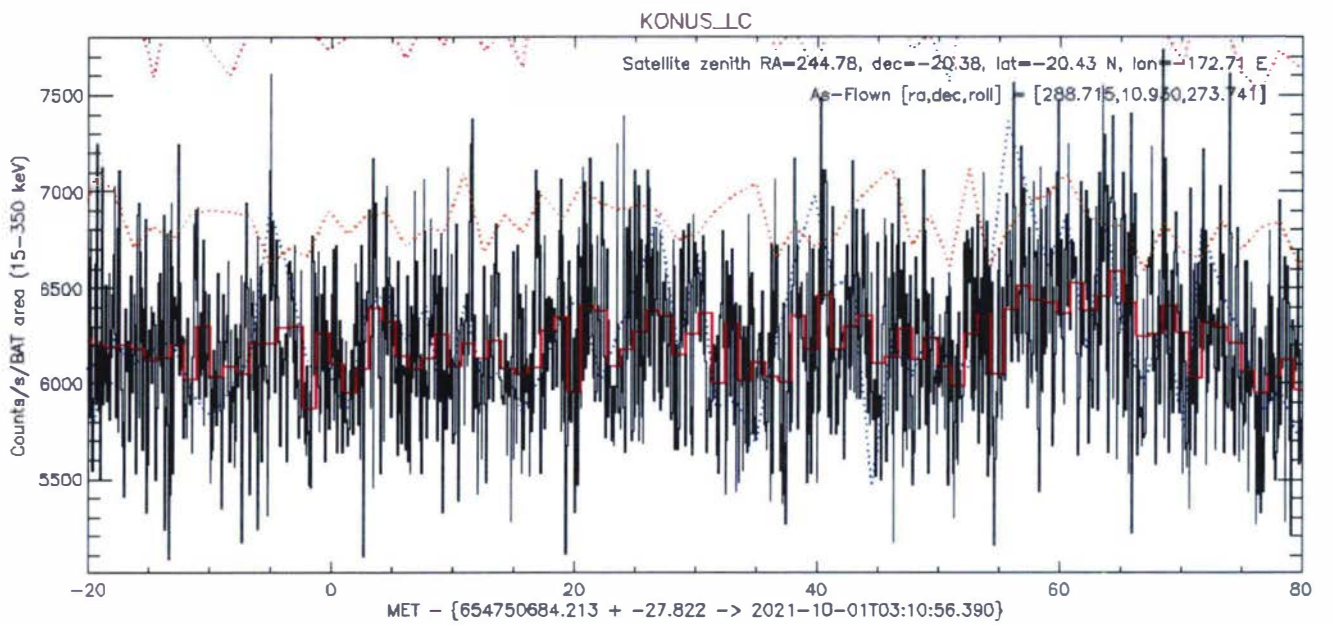
Subject: BAT lightcurve for trigger at 211001_0310
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/1/2021, 8:28 AM
To: mkippen@lanl.gov, aaron.tohu@gmail.com, palmer+automatic_lightcurve@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com, vestrand@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-01T03:10:56.390
Swift Zenith(RA,dec):          244.78, -20.38
Swift Location(lon,lat,alt):  -172.71 E, -20.43 N, 547 km
Time(MET + UTCF -> UT):    654750684.213 + -27.822 -> 2021-10-01T03:10:56.390
YYMMDD_SOD:                    211001_11456.390       DOY=274
Obs Sequence Number:           00089357001
Obs Target Name:               GRS_1915p105
Obs Date and Times:            2021-10-01   03:07:34 - 03:37:30
Obs Pointing(ra,dec,roll):     288.715, 10.930, 273.74
```

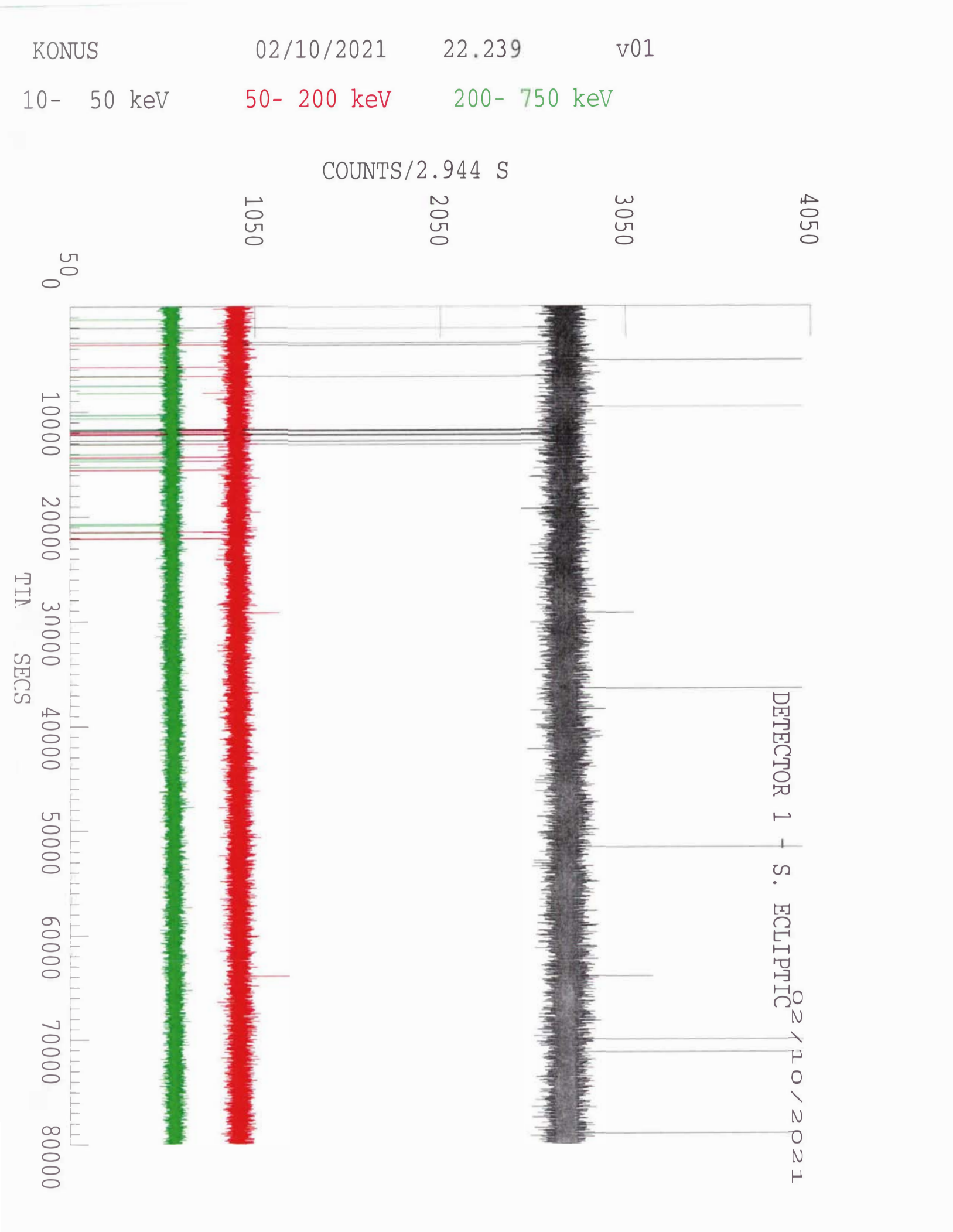
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

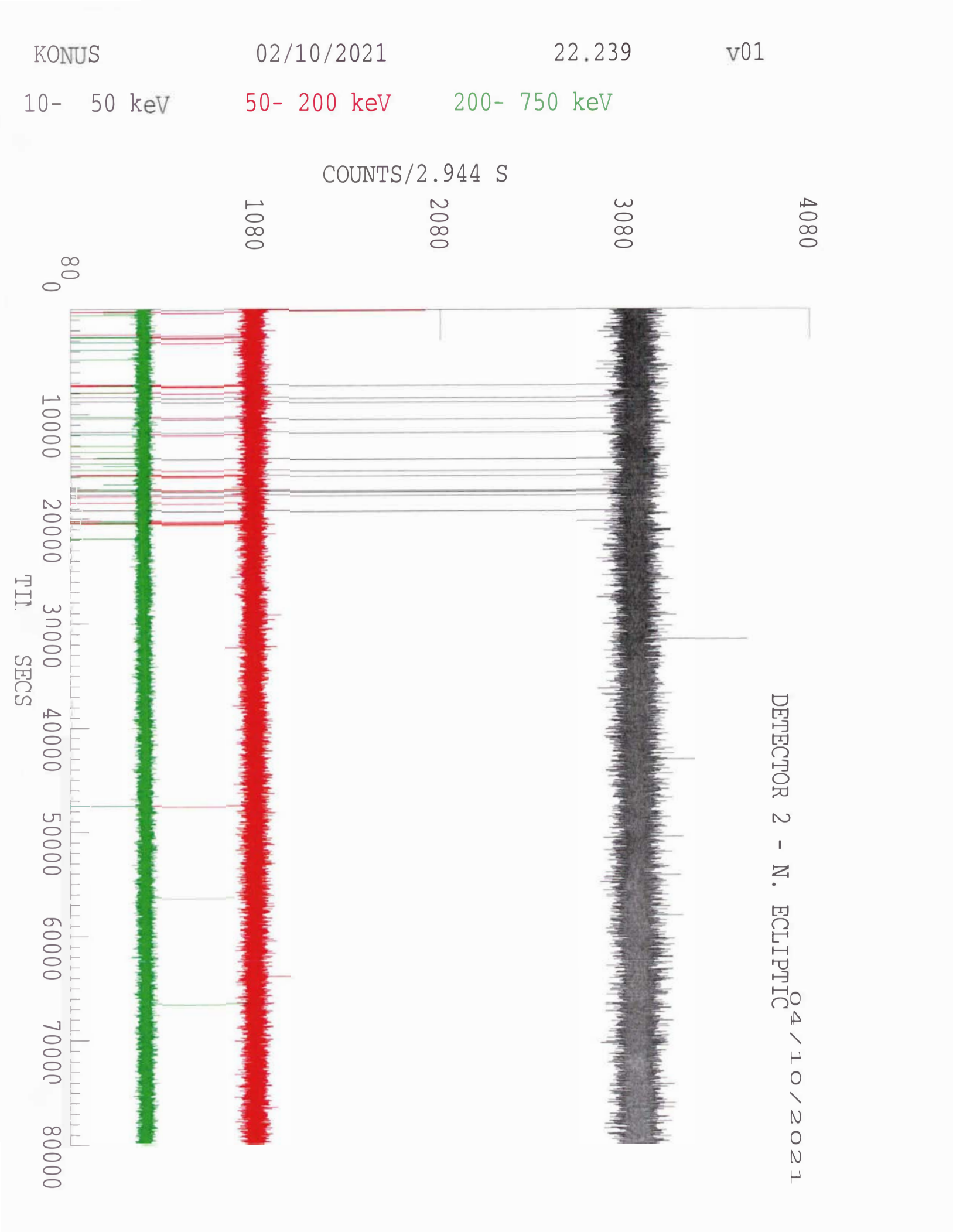
/tmp/swift/211001_0310.png



Attachments:

/tmp/swift/211001_0310_bat64ms_ipn	87.0 KB
/tmp/swift/211001_0310.png	23.5 KB


KONUS 02/10/2021 22.239 v01
10- 50 keV 50- 200 keV 200- 750 keV
COUNTS/2.944 S
50
1050
2050
3050
4050
0
10000
20000
30000
40000
50000
60000
70000
80000
TIME SECS
DETECTOR 1 - S. ECLIPTIC
02/10/2021


KONUS
02/10/2021
22.239
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
80
1080
2080
3080
4080
0
10000
20000
30000
40000
50000
60000
70000
80000
TI
SECS
DETECTOR 2 - N. ECLIPTIC
04/10/2021

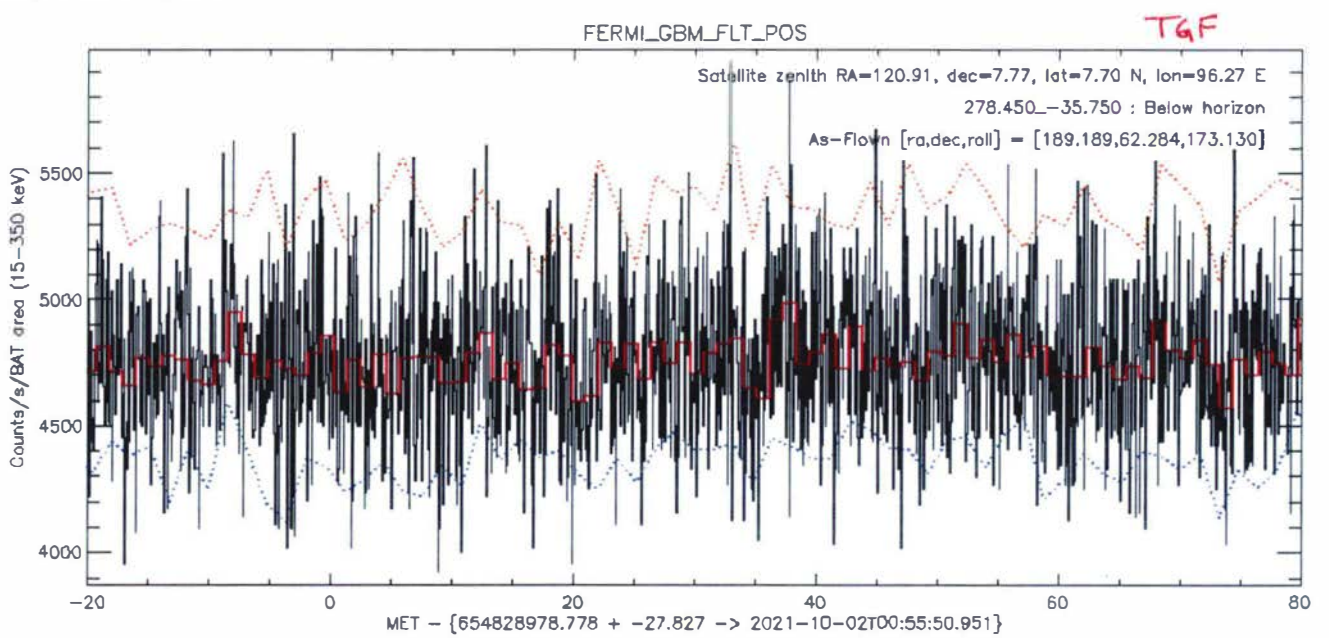
Subject: BAT lightcurve for trigger at 211002_0055
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/1/2021, 10:53 PM
To: palmer+automatic_lightcurve@lanl.gov, mkippen@lanl.gov, vestrand@lanl.gov, aaron.tohu@gmail.com, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 654828978.778 -s 278.450_-35.750
Swift Zenith(RA,dec):          120.91, 7.77
Swift Location(lon,lat,alt):  96.27 E, 7.70 N, 550 km
Time(MET + UTCF -> UT):   654828978.778 + -27.827 -> 2021-10-02T00:55:50.951
YYMMDD_SOD:                    211002_03350.951       DOY=275
Obs Sequence Number:           00095928043
Obs Target Name:               CDF-N
Obs Date and Times:            2021-10-02   00:49:34 - 01:10:33
Obs Pointing(ra,dec,roll):     189.189, 62.284, 173.13
278.450_-35.750_imageloc (boresight_dist, angle): (121, -154)
278.450_-35.750_exposure (cm^2 cos adjusted): 0
278.450_-35.750_altitude: -32 (down)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211002_0055.png



Attachments:

/tmp/swift/211002_0055_bat64ms_ipn	87.1 KB
/tmp/swift/211002_0055.png	19.8 KB

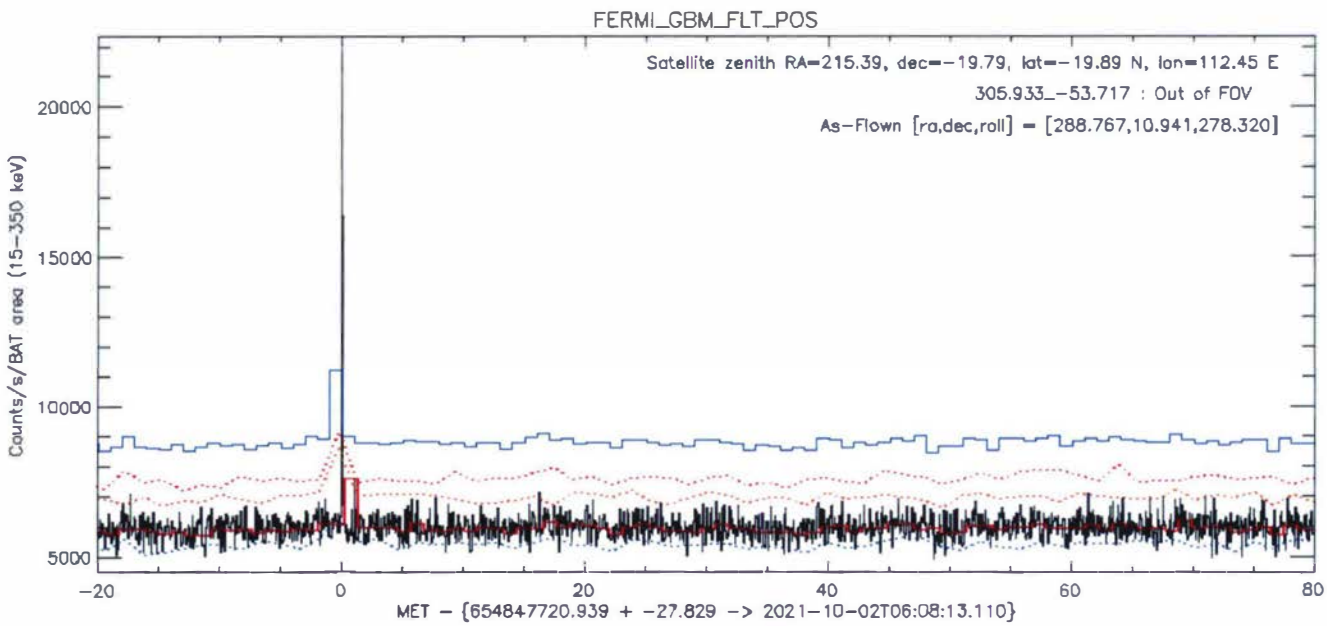
Subject: BAT lightcurve for trigger at 211002_0608
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/2/2021, 1:55 AM
To: aaron.tohu@gmail.com, dmopalmer@gmail.com, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov, ipn@ssl.berkeley.edu, gbm-burst-advocate@lists.nasa.gov, vestrand@lanl.gov, mkippen@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 654847720.939 -s 305.933_-53.717
Swift Zenith(RA,dec):          215.39, -19.79
Swift Location(lon,lat,alt):  112.45 E, -19.89 N, 546 km
Time(MET + UTCF -> UT):   654847720.939 + -27.829 -> 2021-10-02T06:08:13.110
YYMMDD_SOD:                    211002_22093.110       DOY=275
Obs Sequence Number:           00012178090
Obs Target Name:               GRS 1915+105
Obs Date and Times:            2021-10-02   06:06:34 - 06:24:47
Obs Pointing(ra,dec,roll):     288.767, 10.941, 278.32
305.933_-53.717_imageloc (boresight_dist, angle): (66, 161)
305.933_-53.717_exposure (cm^2 cos adjusted): 0
305.933_-53.717_altitude: 38 (up)
```

David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211002_0608.png



Attachments:

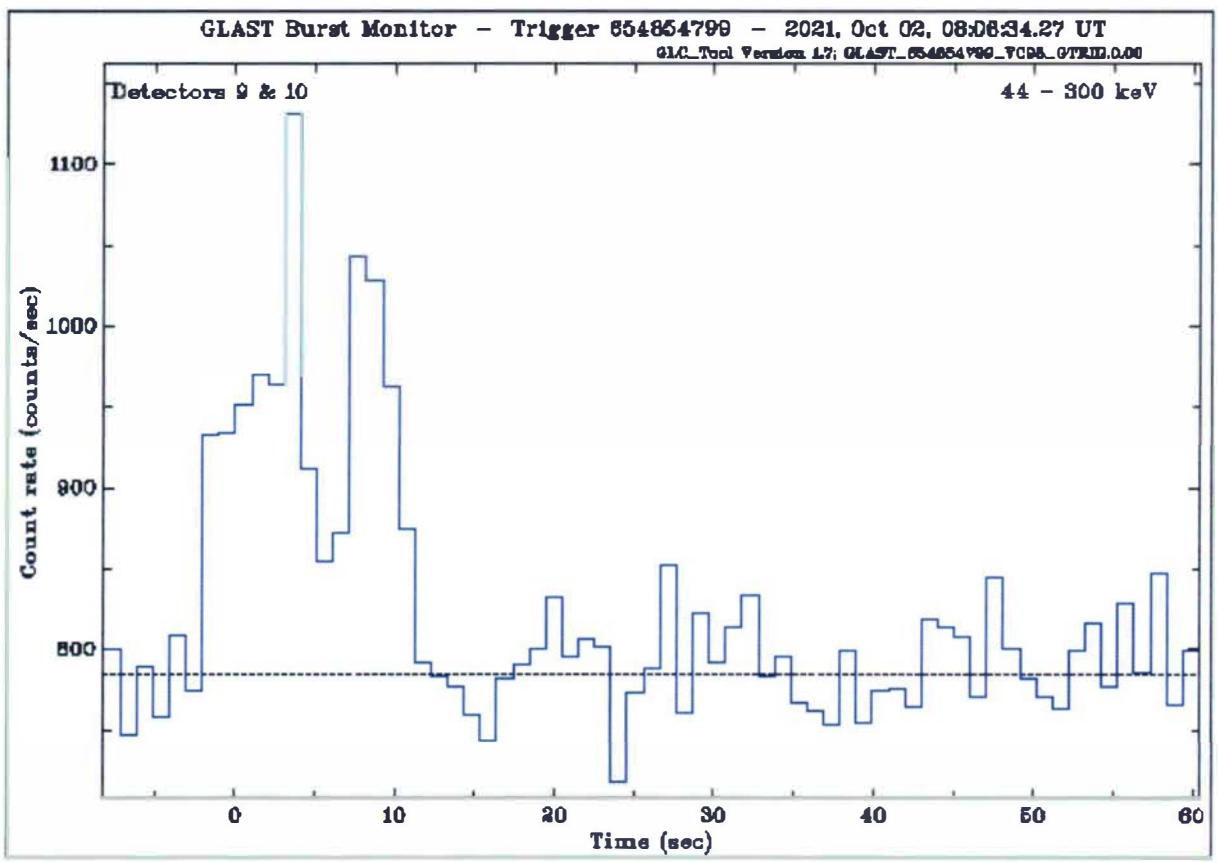
/tmp/swift/211002_0608_bat64ms_ipn	87.0 KB
/tmp/swift/211002_0608.png	15.0 KB

Subject: Re: [EXTERNAL] BAT lightcurve for trigger at 211002_0608
From: "'Palmer, David' via ipn" <ipn@ssl.berkeley.edu>
Date: 10/2/2021, 9:44 AM
To: IPN <ipn@ssl.berkeley.edu>
CC: Aaron Tohuvavohu <aaron.tohu@gmail.com>, David Palmer <dmopalmer@gmail.com>, BAT TEAM <bat_team@bigbang.gsfc.nasa.gov>, "gbm-burst-advocate@lists.nasa.gov" <gbm-burst-advocate@lists.nasa.gov>, "Vestrand, W" <vestrand@lanl.gov>, "Kippen, Marc" <mkippen@lanl.gov>

Based on the Fermi location: ra, dec = 305, -54 , and the timescale, this is presumably another Swift J1555-5402 SGR burst.

--
David Palmer palmer@lanl.gov (505) 665-6863
Socially Distant: Work-From-Home (505) 695-9190

> On Oct 2, 2021, at 2:55 AM, palmer+automatic_lightcurve@lanl.gov wrote:
>
> ******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******
>
> % /Users/palmer/anaconda3/envs/stable/bin/swinfo -o 654847720.939 -s 305.933_-53.717
> Swift Zenith(RA,dec): 215.39, -19.79
> Swift Location(lon,lat,alt): 112.45 E, -19.89 N, 546 km
> Time(MET + UTCF -> UT): 654847720.939 + -27.829 -> 2021-10-02T06:08:13.110
> YYMMDD_SOD: 211002_22093.110 DOY=275
> Obs Sequence Number: 00012178090
> Obs Target Name: GRS 1915+105
> Obs Date and Times: 2021-10-02 06:06:34 - 06:24:47
> Obs Pointing(ra,dec,roll): 288.767, 10.941, 278.32
> 305.933_-53.717_imageloc (boresight_dist, angle): (66, 161)
> 305.933_-53.717_exposure (cm^2 cos adjusted): 0
> 305.933_-53.717_altitude: 38 (up)
>
> --
> David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
> TSPA -- Automatically generated plot of publicly-available scientific data
>
> <_tmp_swift_211002_0608_bat64ms_ipn><_tmp_swift_211002_0608.png>


GLAST Burst Monitor - Trigger 554854799 - 2021, Oct 02, 08:06:34.27 UT
Detectors 9 & 10
44 - 300 keV
Count rate (counts/sec)
1100
1000
900
800
0
10
20
30
40
50
60
Time (sec)

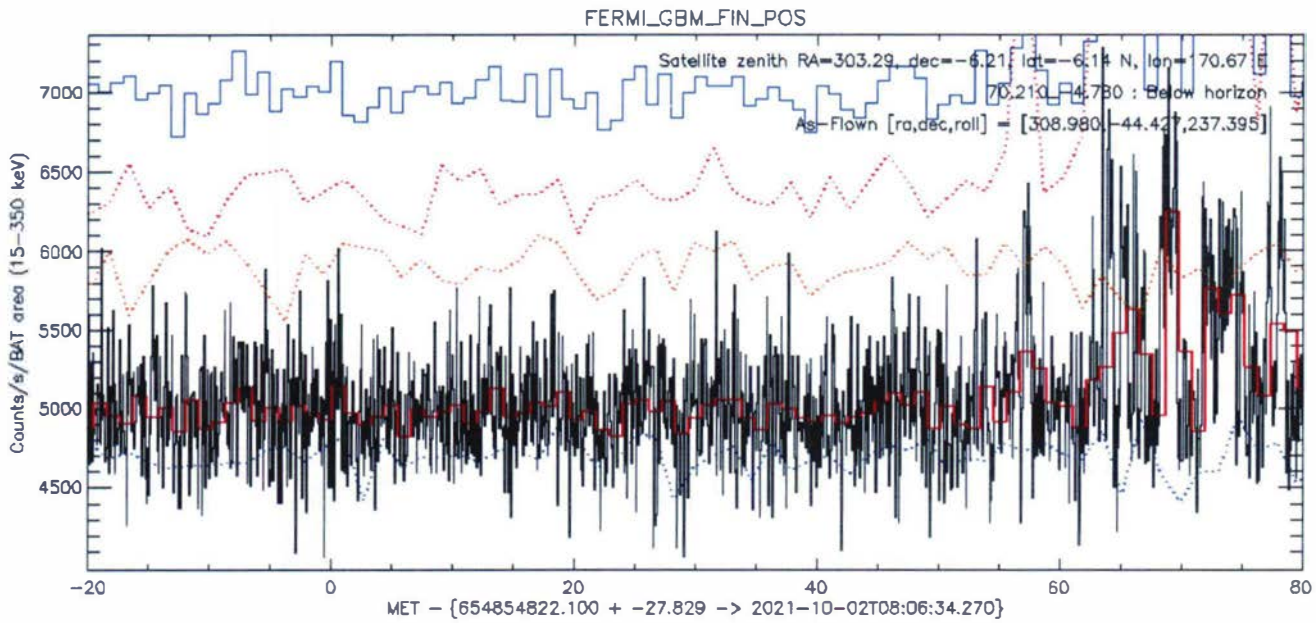
Subject: BAT lightcurve for trigger at 211002_0806
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/2/2021, 6:32 PM
To: mkippen@lanl.gov, aaron.tohu@gmail.com, dmopalmer@gmail.com, gbm-burst-advocate@lists.nasa.gov, ipn@ssl.berkeley.edu, palmer+automatic_lightcurve@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-02T08:06:34.270 -s 70.210_-4.780
Swift Zenith(RA,dec):          303.29, -6.21
Swift Location(lon,lat,alt):  170.67 E, -6.14 N, 548 km
Time(MET + UTCF -> UT):   654854822.100 + -27.829 -> 2021-10-02T08:06:34.270
YYMMDD_SOD:                    211002_29194.270       DOY=275
Obs Sequence Number:           01071993021
Obs Target Name:               GRB 210905A
Obs Date and Times:            2021-10-02   07:55:34 - 08:19:30
Obs Pointing(ra,dec,roll):     308.980, -44.427, 237.40
70.210_-4.780_imageloc (boresight_dist, angle): (108, 149)
70.210_-4.780_exposure (cm^2 cos adjusted): 0
70.210_-4.780_altitude: -13 (down)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211002_0806.png



Attachments:

/tmp/swift/211002_0806.png	20.8 KB
/tmp/swift/211002_0806_bat64ms_ipn	87.1 KB

B

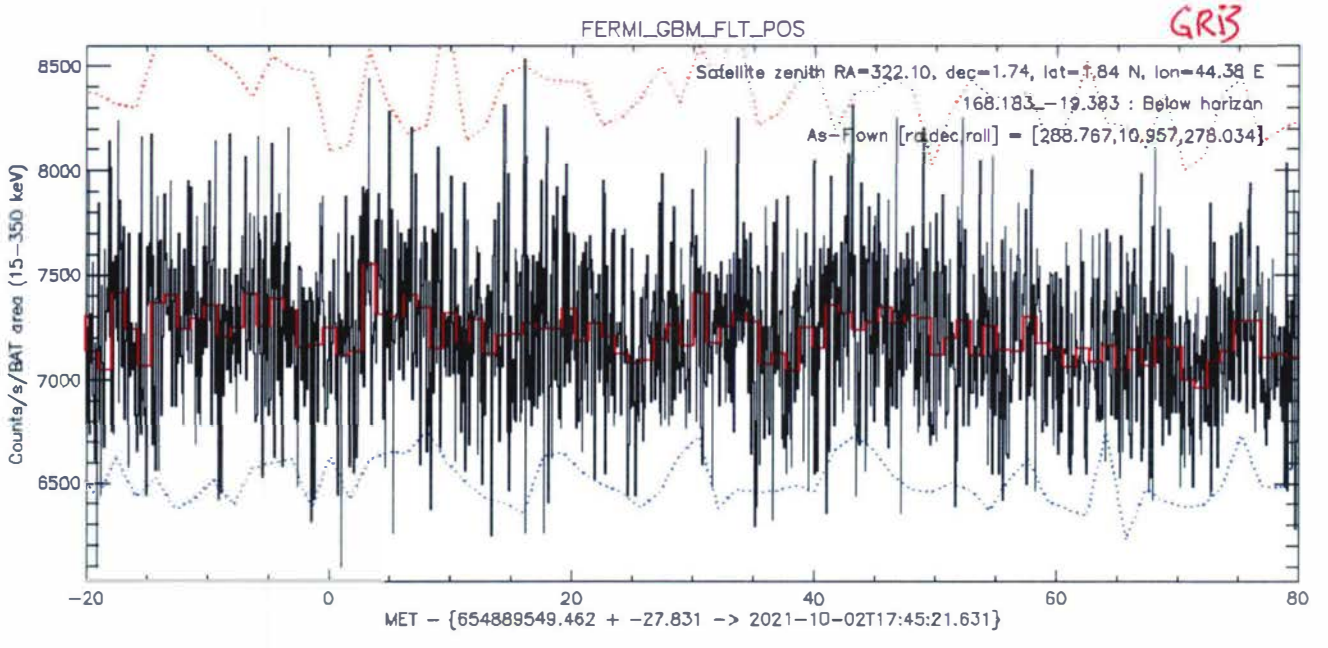
Subject: BAT lightcurve for trigger at 211002_1745
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/2/2021, 3:29 PM
To: bat_team@bigbang.gsfc.nasa.gov, dmopalmer@gmail.com, vestrand@lanl.gov, gbm-burst-advocate@lists.nasa.gov, ipn@ssl.berkeley.edu, aaron.tohu@gmail.com, mkippen@lanl.gov, palmer+automatic_lightcurve@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 654889549.462 -s 168.183_-19.383
Swift Zenith(RA,dec):          322.10, 1.74
Swift Location(lon,lat,alt):   44.38 E, 1.84 N, 549 km
Time(MET + UTCF -> UT):    654889549.462 + -27.831 -> 2021-10-02T17:45:21.631
YYMMDD_SOD:                    211002_63921.631        DOY=275
Obs Sequence Number:           00012178091
Obs Target Name:               GRS 1915+105
Obs Date and Times:            2021-10-02   17:33:34 - 17:51:38
Obs Pointing(ra,dec,roll):     288.767, 10.957, 278.03
168.183_-19.383_imageloc (boresight_dist, angle): (122, -114)
168.183_-19.383_exposure (cm^2 cos adjusted): 0
168.183_-19.383_altitude: -36 (down)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211002_1745.png



Attachments:

/tmp/swift/211002_1745_bat64ms_ipn	87.1 KB
/tmp/swift/211002_1745.png	18.0 KB

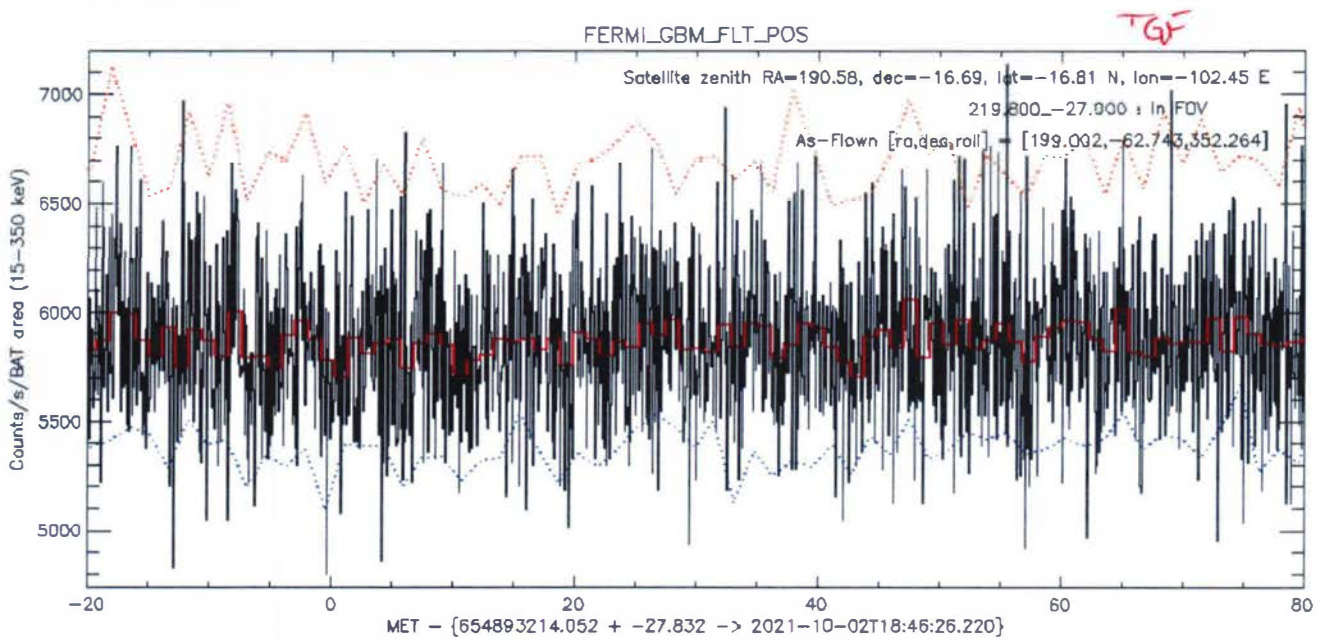
Subject: BAT lightcurve for trigger at 211002_1846
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/2/2021, 3:29 PM
To: dmopalmer@gmail.com, bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov, gbm-burst-advocate@lists.nasa.gov, mkippen@lanl.gov, ipn@ssl.berkeley.edu, palmer+automatic_lightcurve@lanl.gov, aaron.tohu@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 654893214.052 -s 219.800_-27.900
Swift Zenith(RA,dec):          190.58, -16.69
Swift Location(lon,lat,alt):   -102.45 E, -16.81 N, 546 km
Time(MET + UTCF -> UT):    654893214.052 + -27.832 -> 2021-10-02T18:46:26.220
YYMMDD_SOD:                    211002_67586.220       DOY=275
Obs Sequence Number:           03110142008
Obs Target Name:               4FGL J1315.9-6243
Obs Date and Times:            2021-10-02   18:30:34 - 18:49:30
Obs Pointing(ra,dec,roll):     199.002, -62.743, 352.26
219.800_-27.900_imageloc (boresight_dist, angle): (37, -51)
219.800_-27.900_exposure (cm^2 cos adjusted): 1790
219.800_-27.900_altitude: 84 (up)
```

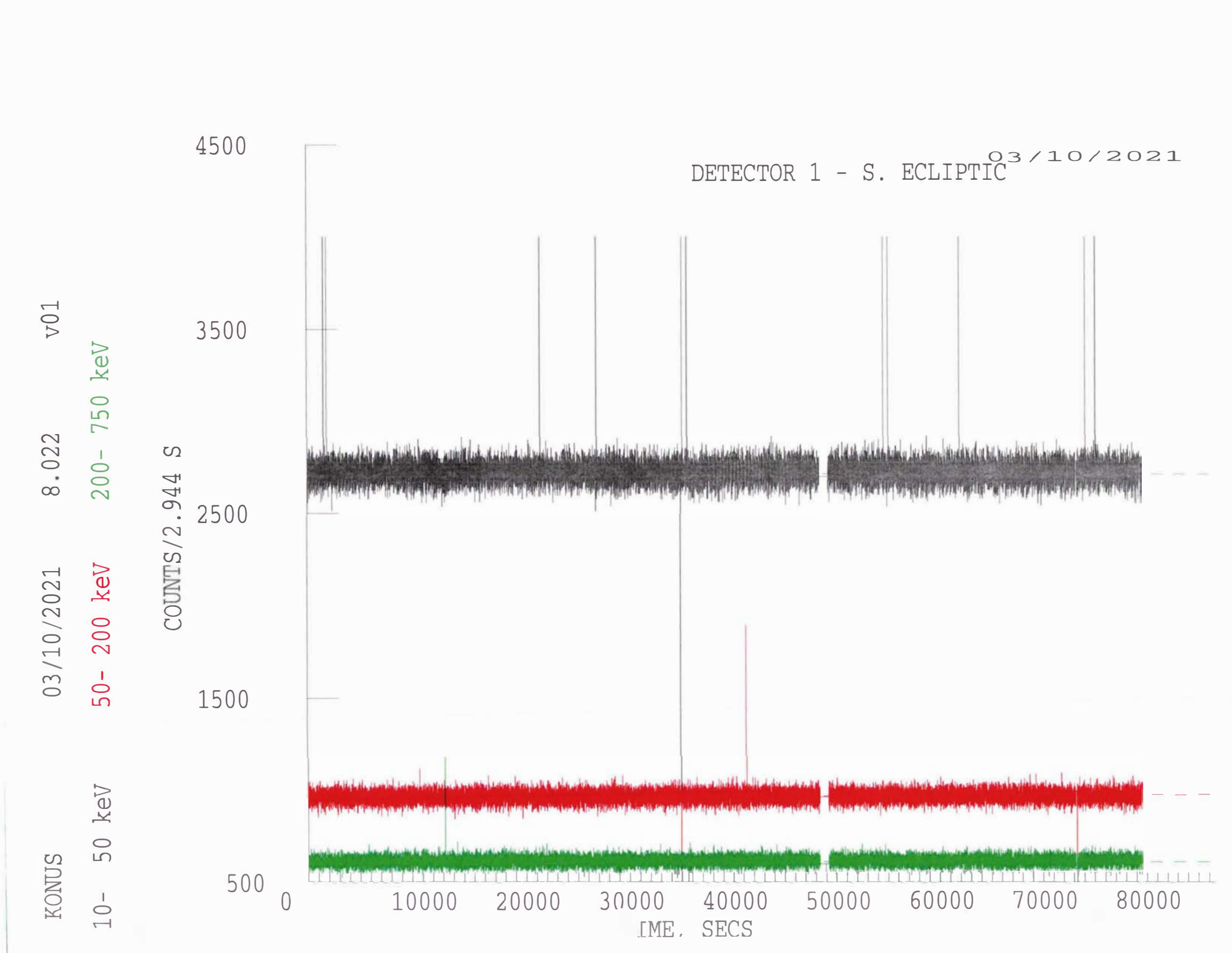
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

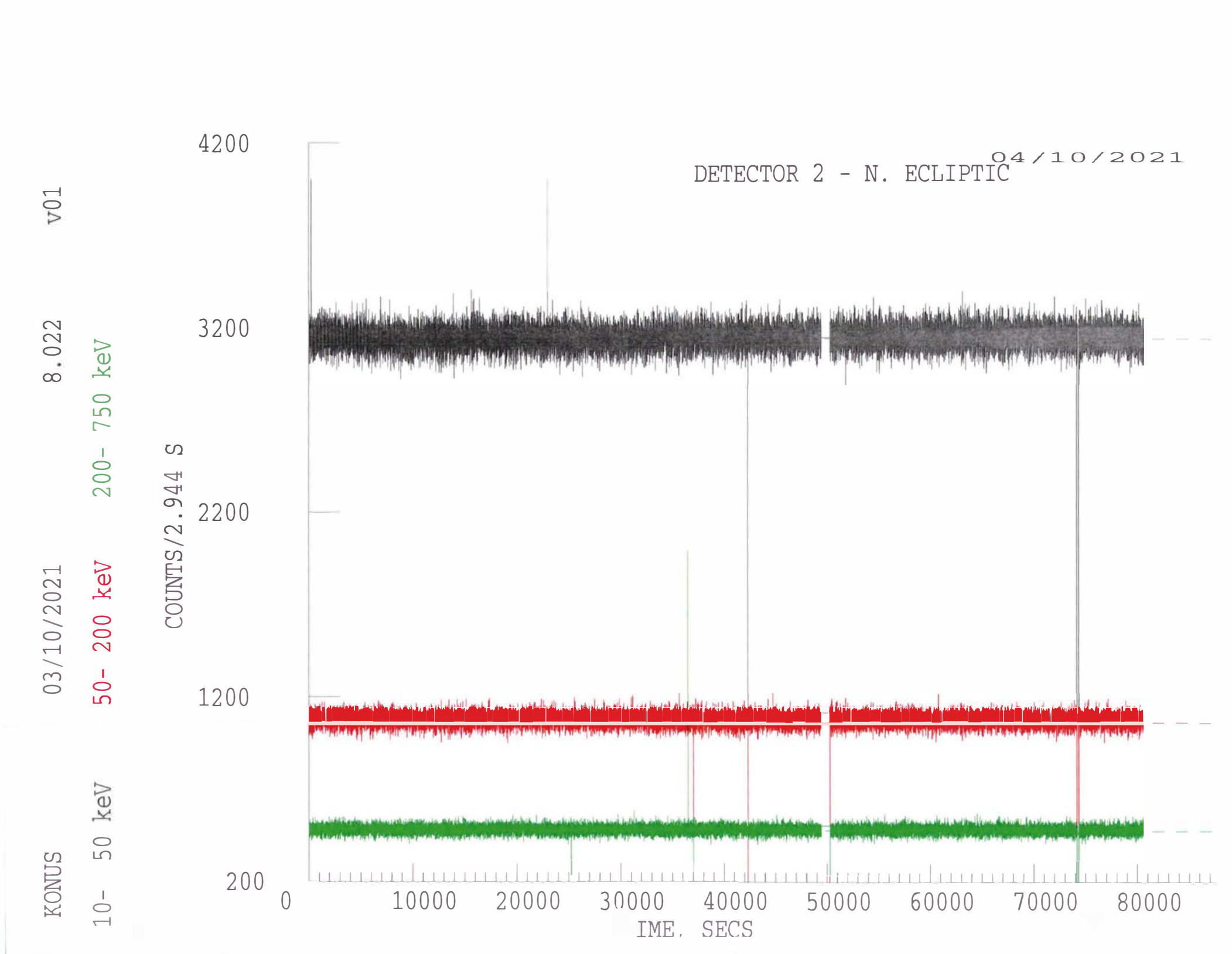
/tmp/swift/211002_1846.png



Attachments:

/tmp/swift/211002_1846.png	19.0 KB
/tmp/swift/211002_1846_bat64ms_ipn	87.0 KB


KONUS
03/10/2021
8.022
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 1 - S. ECLIPTIC
03/10/2021
COUNTS/2.944 S
4500
3500
2500
1500
500
0
10000
20000
30000
40000
50000
60000
70000
80000
TIME, SECS


KONUS
03/10/2021
8.022
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
04/10/2021
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
IME. SECS

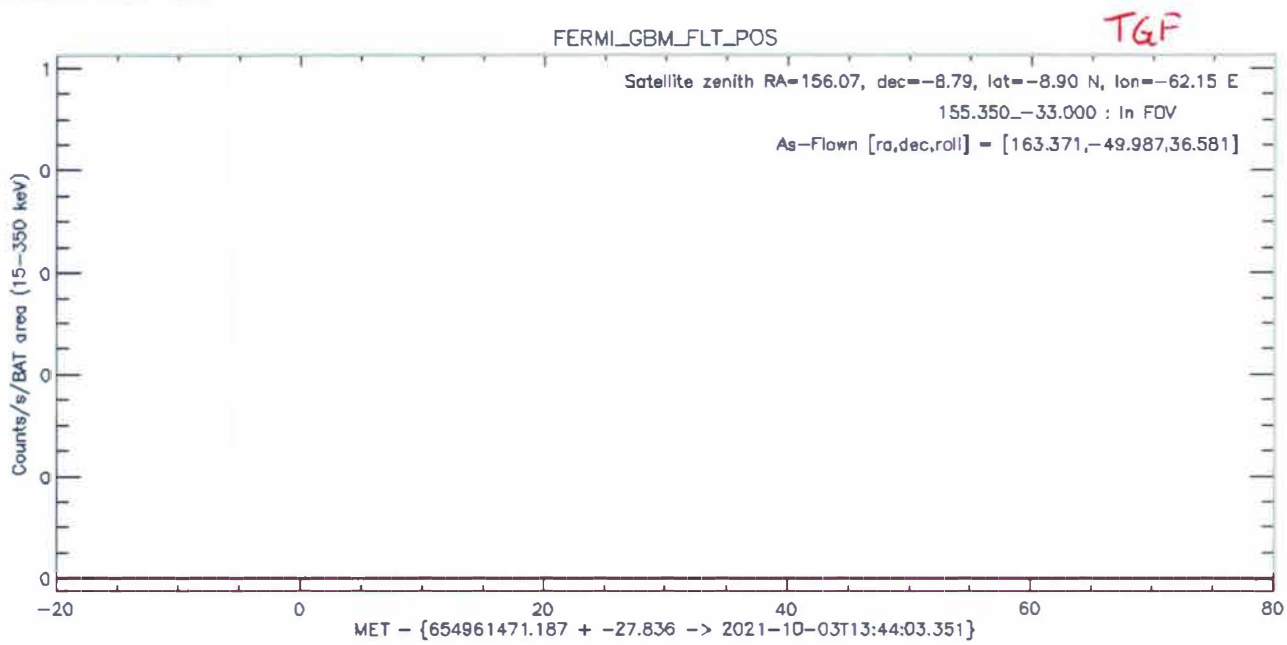
Subject: BAT lightcurve for trigger at 211003_1344
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/3/2021, 8:48 AM
To: palmer+automatic_lightcurve@lanl.gov, mkippen@lanl.gov, aaron.tohu@gmail.com, gbm-burst-advocate@lists.nasa.gov, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, bat_team@bigbang.gsfc.nasa.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 654961471.187 -s 155.350_-33.000
Swift Zenith(RA,dec):          156.07, -8.79
Swift Location(lon,lat,alt):  -62.15 E, -8.90 N, 548 km
Time(MET + UTCF -> UT):   654961471.187 + -27.836 -> 2021-10-03T13:44:03.351
YYMMDD_SOD:                    211003_49443.351       DOY=276
Obs Sequence Number:           00076151007
Obs Target Name:               saa-cold-341-03
Obs Date and Times:            2021-10-03   13:40:34 - 14:06:33
Obs Pointing(ra,dec,roll):     163.371, -49.987, 36.58
155.350_-33.000_imageloc (boresight_dist, angle): (18, -149)
155.350_-33.000_exposure (cm² cos adjusted): 4151
155.350_-33.000_altitude: 89 (up)
```

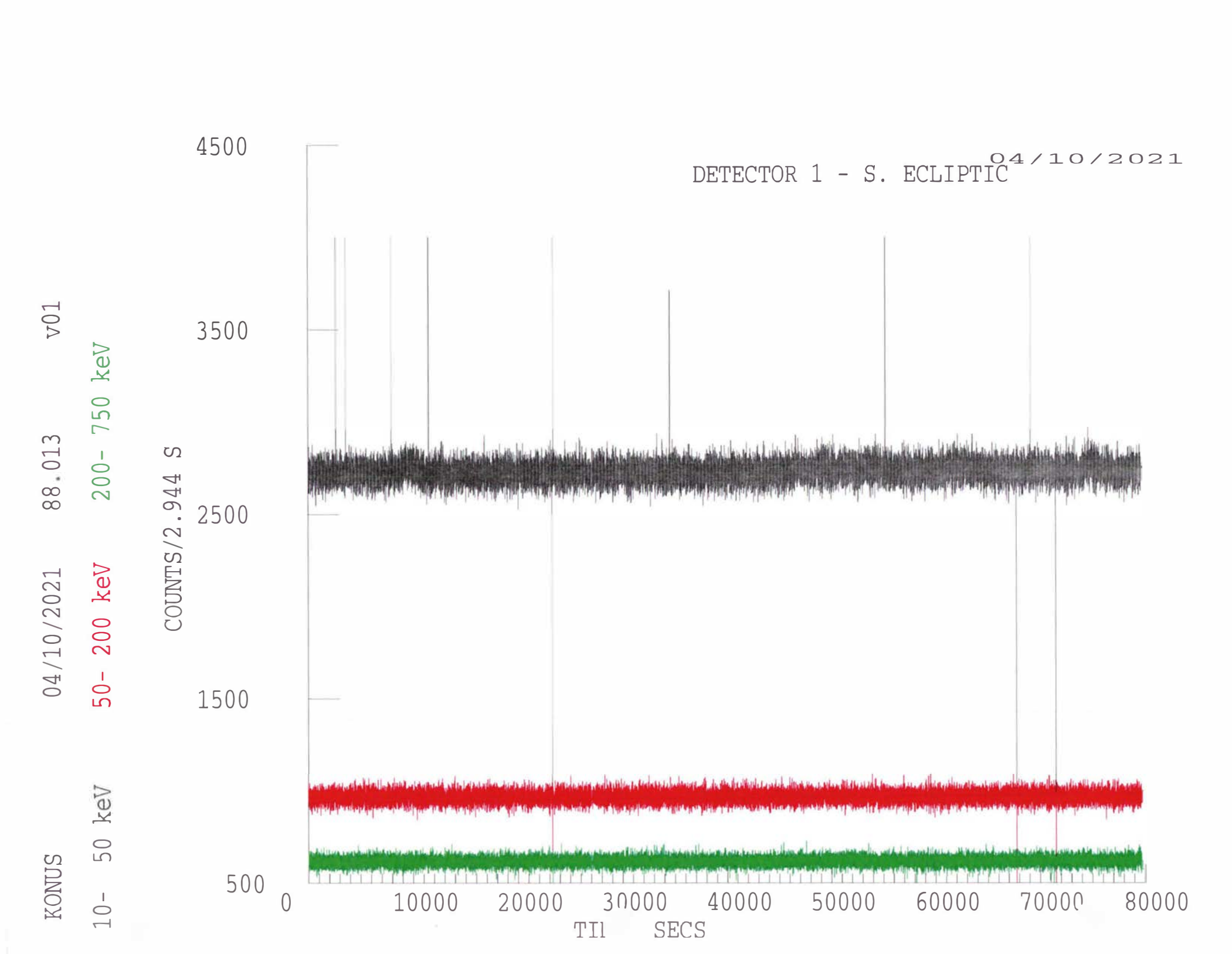
```
--
David Palmer  palmer@lanl.gov   (505)665-6863 (voice)   (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data
```

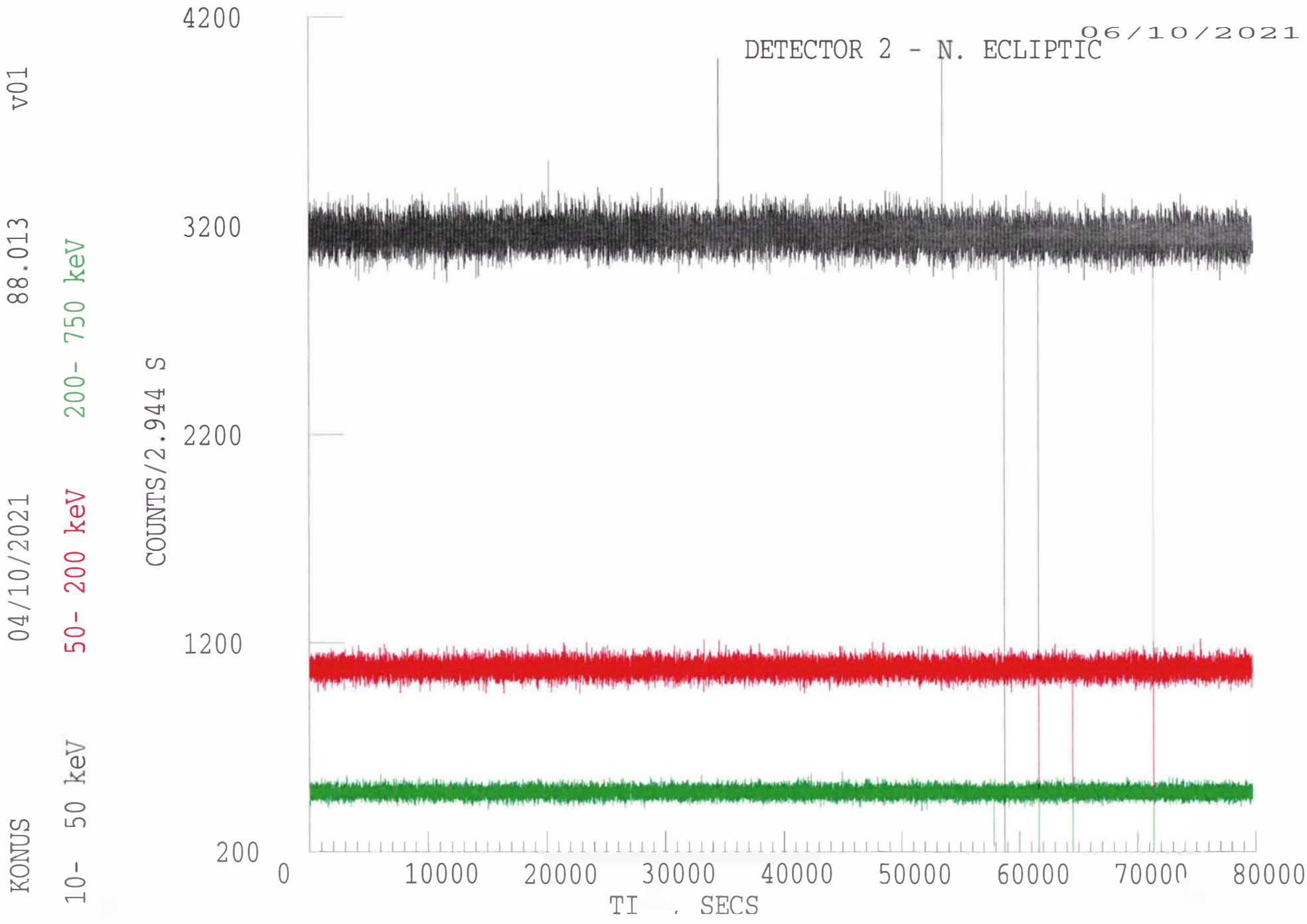
/tmp/swift/211003_1344.png



Attachments:

/tmp/swift/211003_1344_bat64ms_ipn	87.1 KB
/tmp/swift/211003_1344.png	7.7 KB


KONUS
04/10/2021
88.013
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 1 - S. ECLIPTIC
04/10/2021
COUNTS/2.944 S
4500
3500
2500
1500
500
0
10000
20000
30000
40000
50000
60000
70000
80000
TIME SECS


KONUS
04/10/2021
88.013
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
06/10/2021
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
TI . SECS

Subject: GECAM observation of a burst from SGR J1555.2-5402
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Date: 10/5/2021, 7:17 AM
To: khurley@ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 30922
SUBJECT: GECAM observation of a burst from SGR J1555.2-5402
DATE: 21/10/05 14:17:18 GMT
FROM: Y Q Zhang at IHEP <yqzhang@ihep.ac.cn>

Y. Q. Zhang, S. L. Xiong, S. Xiao, C. Cai, X. Y. Zhao, Y. Huang, X. Y. Song, J. C. Liu, S. L. Xie, Y. Zhao, Z. W. Guo, C. Zheng, W. C. Xue, C. Y. Li, C. W. Wang, Q. B. Yi, B. X. Zhang, P. Zhang, W. X. Peng, R. Qiao, D. Y. Guo, X. B. Li, X. Ma, P. Wang, J. Wang, Z. Zhang, S. J. Zheng, W. Chen, J. J. He, G. Y. Zhao, Y. Q. Du, H. Wu, J. Liang, Q. Luo, X. L. Zhang, L. M. Song, F. J. Lu, S. N. Zhang (IHEP), report on behalf of GECAM team:

During the commissioning phase, GECAM-B was triggered on-ground by a bright short burst from SGR J1555.2-5402 at 2021-10-04T00:13:14.700 UTC (T0).

According to the GECAM-B light curves in about 10-50 keV, this burst mainly consists of a single pulse with a duration about 30 ms.The location given by GECAM-B alone is consistent with SGR J1555.2-5402 within the error.

GECAM-B localized this burst to the following position (J2000):
Ra: 241.96 deg
Dec: -55.45 deg
Err: 9.01 deg (1-sigma, statistical only)
The current systematic error of location is estimated to be several degrees which could be minimized by the ongoing calibration.

The GECAM light curve could be found here:
http://twiki.ihep.ac.cn/pub/GECAM/GRBList/utn211004_001314_GECAMb.png

According to our multiple-mission joint location pipeline (S. Xiao et al., accepted by ApJ) using GECAM-B and Fermi/GBM data, this burst is localized to an annulus which is very consistent with SGR J1555.2-5402.

The GECAM-GBM joint location could be found here:
http://twiki.ihep.ac.cn/pub/GECAM/GRBList/SGR20211004T001314.700-JointLoc.png

Please note that all GECAM results here are preliminary. The final analysis will be published in journal papers or GECAM online catalog.

Gravitational wave high-energy Electromagnetic Counterpart All-sky Monitor (GECAM) mission consists of two small satellites (GECAM-A and GECAM-B) in Low Earth Orbit (600 km, 29 deg), launched on Dec 10, 2020 (Beijing Time), which was funded by the Chinese Academy of Sciences (CAS).

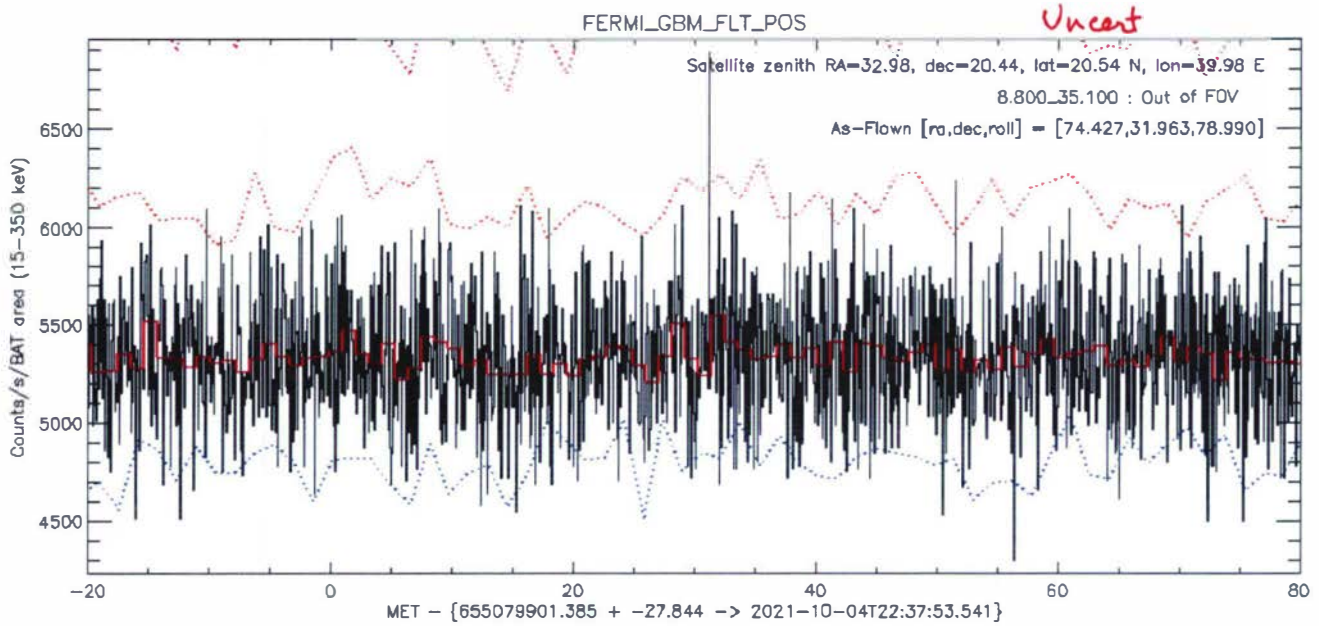
Subject: BAT lightcurve for trigger at 211004_2237
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/4/2021, 7:31 PM
To: mkippen@lanl.gov, gbm-burst-advocate@lists.nasa.gov, vestrand@lanl.gov, dmopalmer@gmail.com, aaron.tohu@gmail.com, ipn@ssl.berkeley.edu, palmer+automatic_lightcurve@lanl.gov, bat_team@bigbang.gsfc.nasa.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655079901.385 -s 8.800_35.100
Swift Zenith(RA,dec):          32.98, 20.44
Swift Location(lon,lat,alt):   39.98 E, 20.54 N, 555 km
Time(MET + UTCF -> UT):    655079901.385 + -27.844 -> 2021-10-04T22:37:53.541
YYMMDD_SOD:                    211004_81473.541       DOY=277
Obs Sequence Number:           05000058003
Obs Target Name:               C/29P
Obs Date and Times:            2021-10-04   22:36:34 - 22:53:30
Obs Pointing(ra,dec,roll):     74.427, 31.963, 78.99
8.800_35.100_imageloc (boresight_dist, angle): (54, 124)
8.800_35.100_exposure (cm^2 cos adjusted): 0
8.800_35.100_altitude: 87 (up)
```

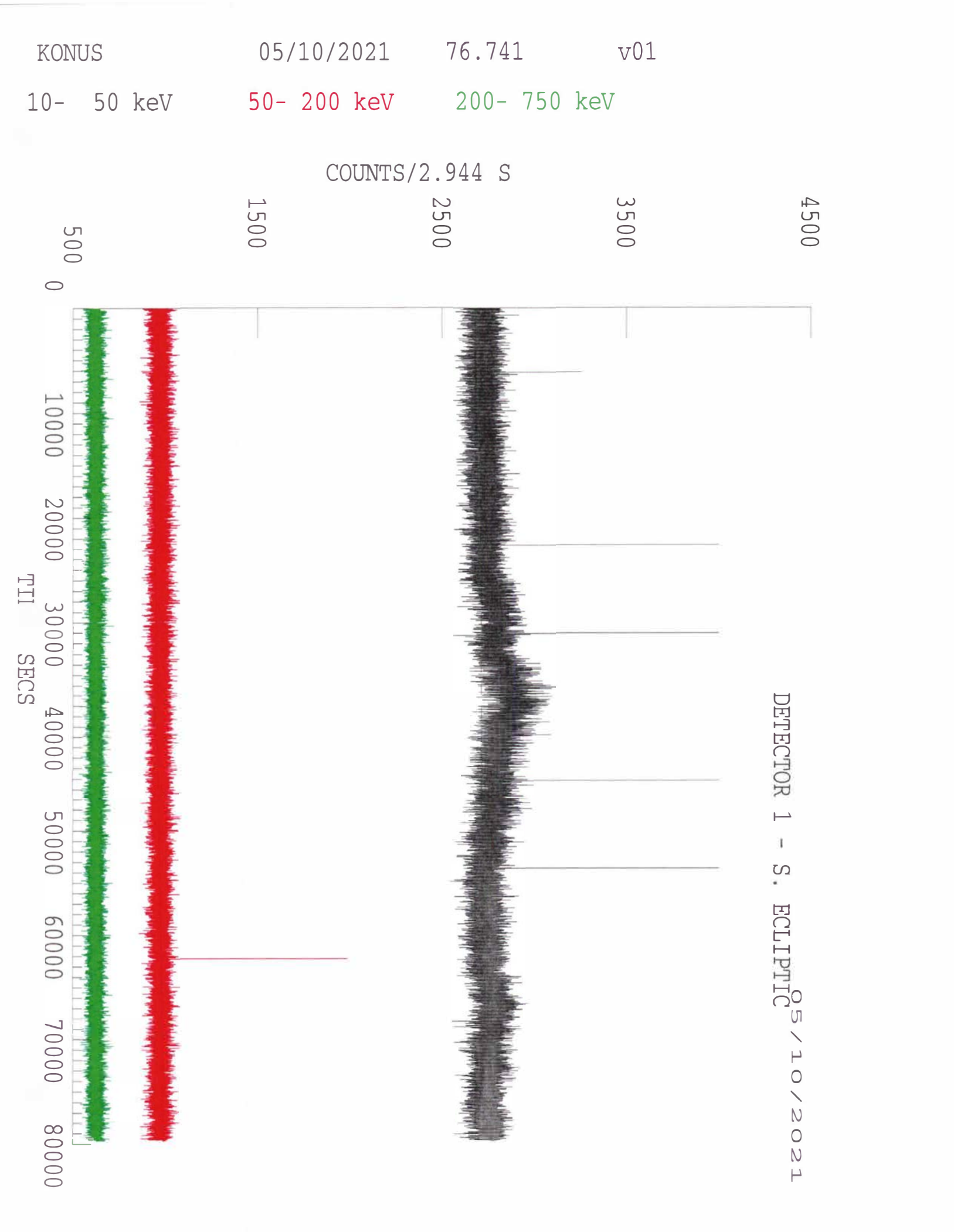
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

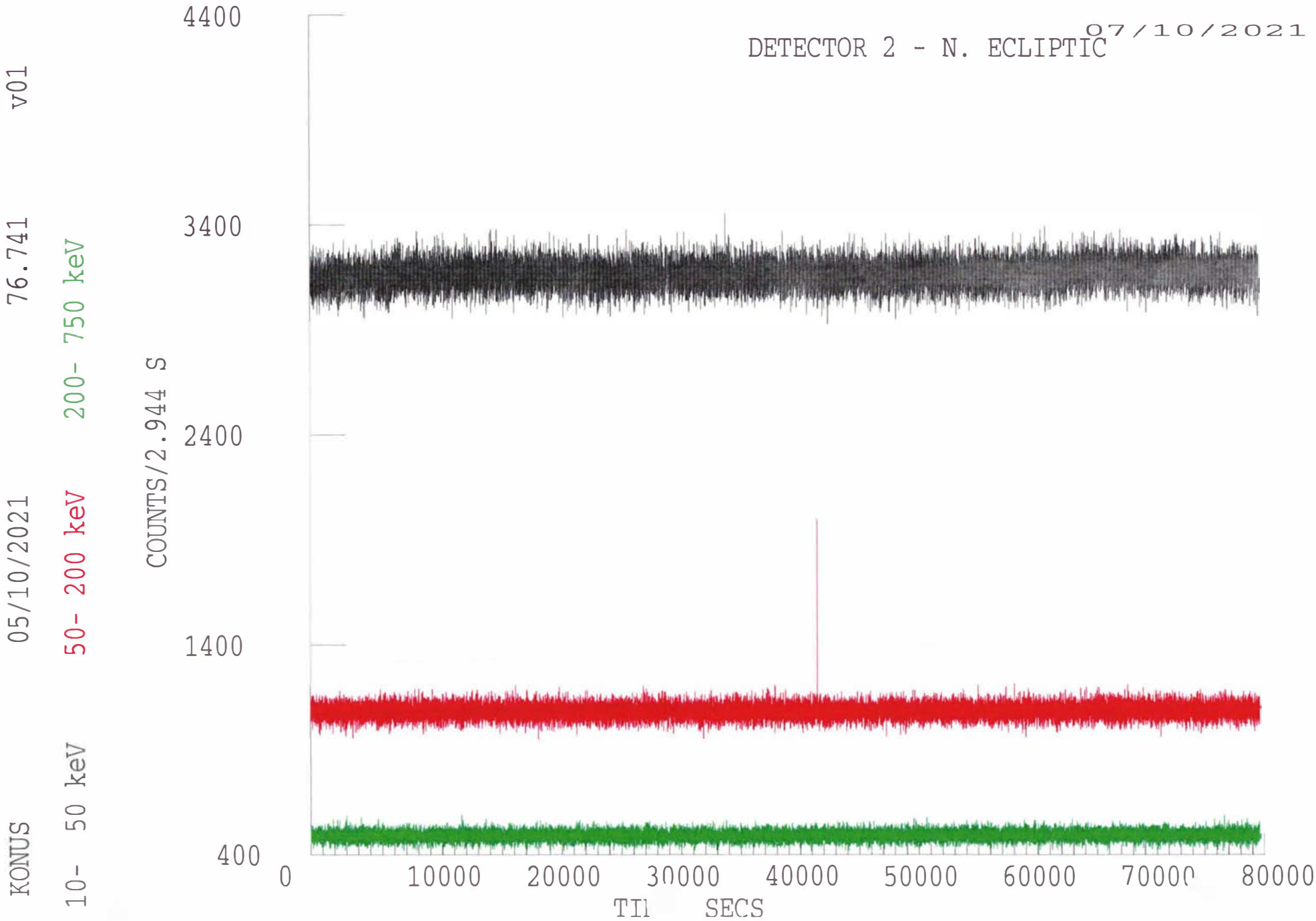
/tmp/swift/211004_2237.png

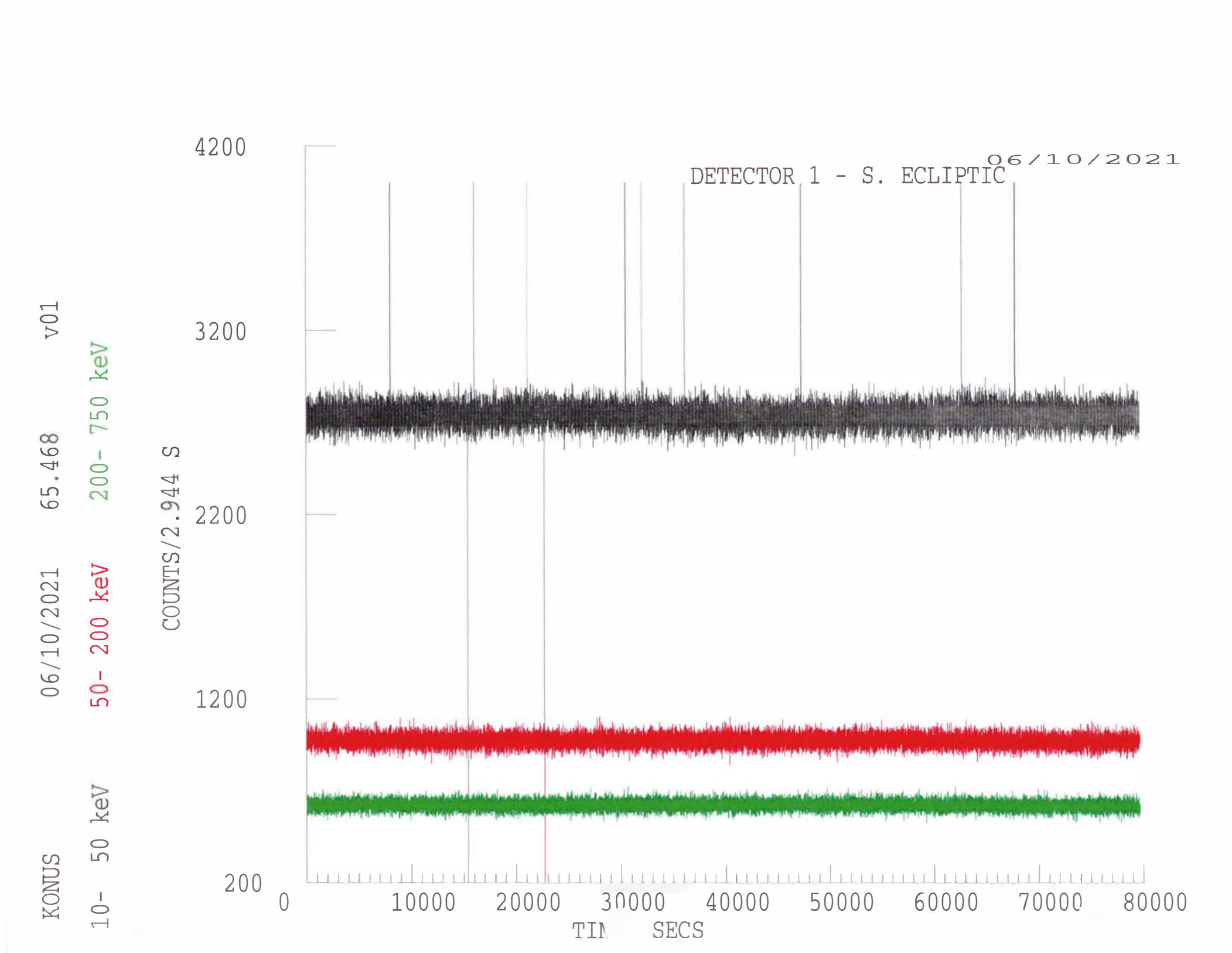


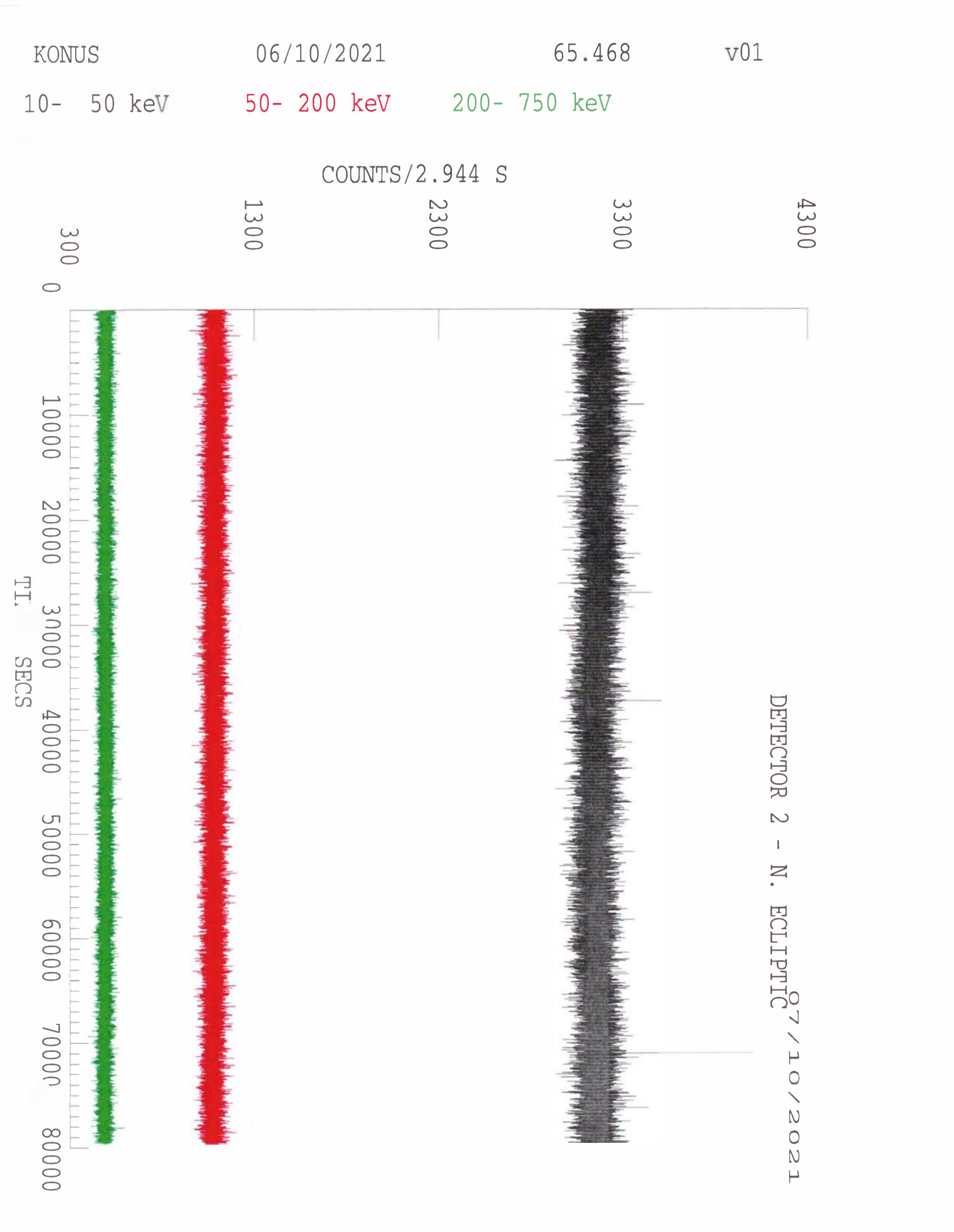
Attachments:

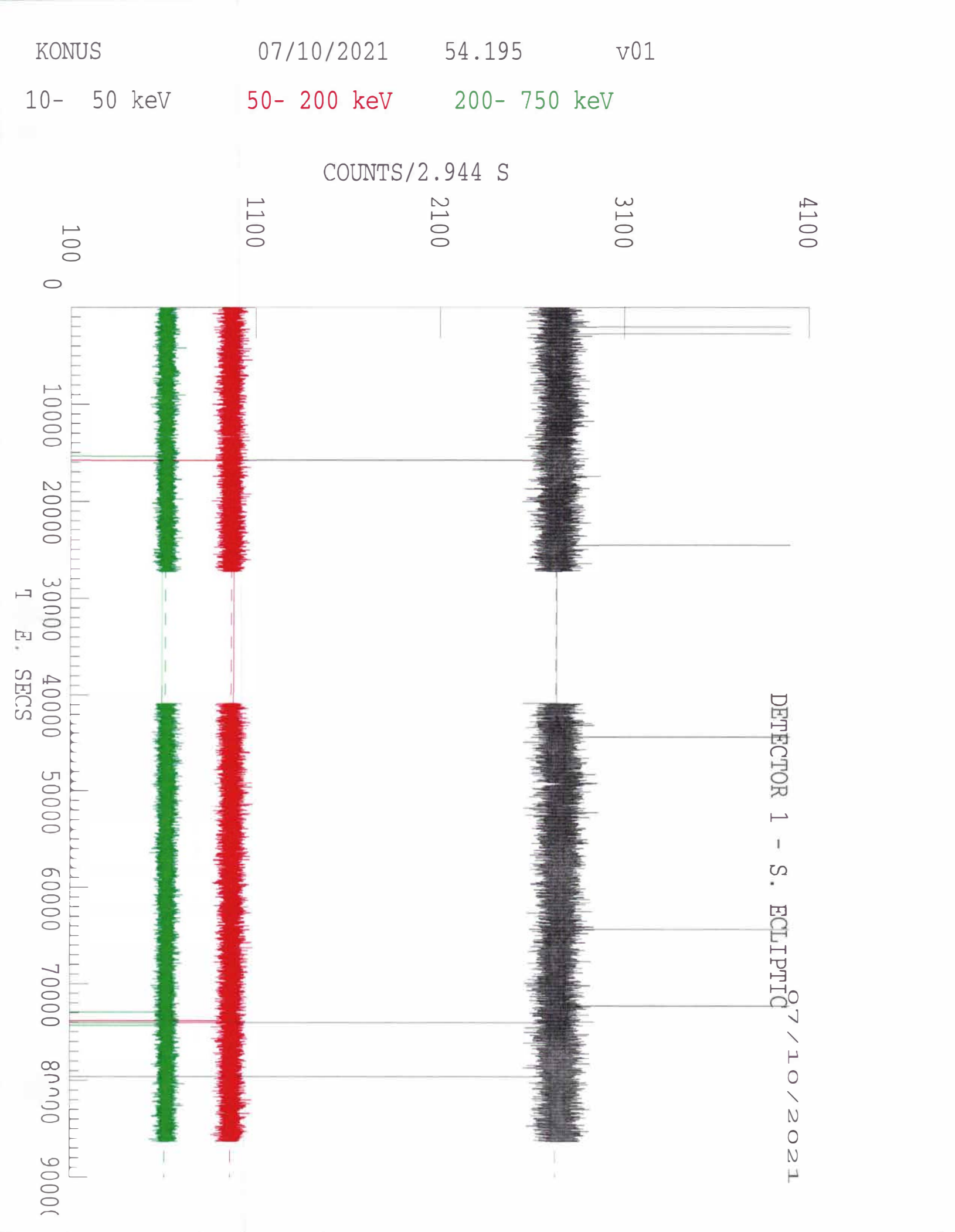
/tmp/swift/211004_2237_bat64ms_ipn	87.1 KB
/tmp/swift/211004_2237.png	18.1 KB

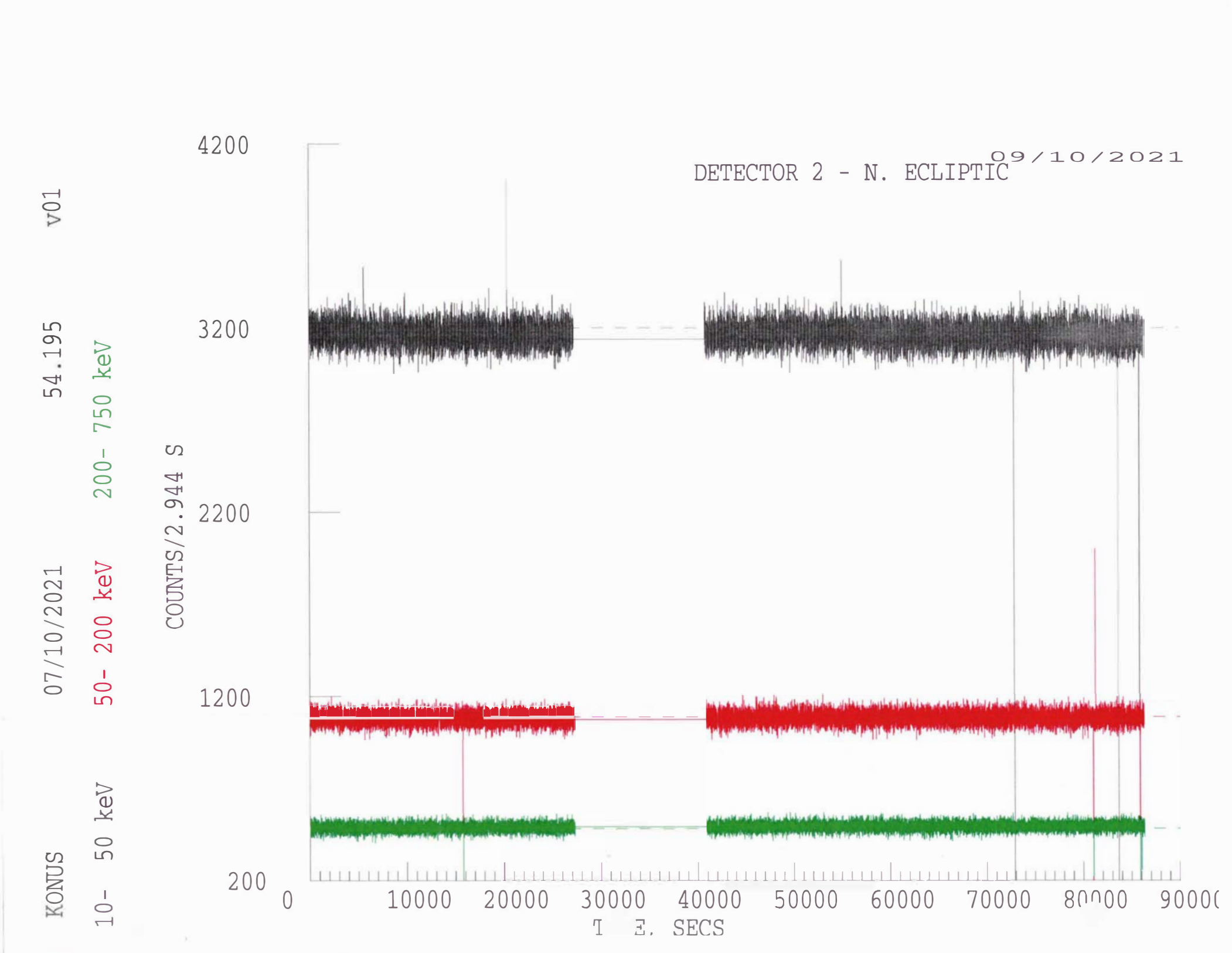

KONUS 05/10/2021 76.741 v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
500
1500
2500
3500
4500
0
10000
20000
30000
40000
50000
60000
70000
80000
TTI SECS
DETECTOR 1 - S. ECLIPTIC
05/10/2021


KONUS
05/10/2021
76.741
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
07/10/2021
COUNTS/2.944 S
4400
3400
2400
1400
400
0
10000
20000
30000
40000
50000
60000
70000
80000
TI SECS


KONUS
06/10/2021
65.468
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 1 - S. ECLIPTIC
06/10/2021
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
TIME SECS

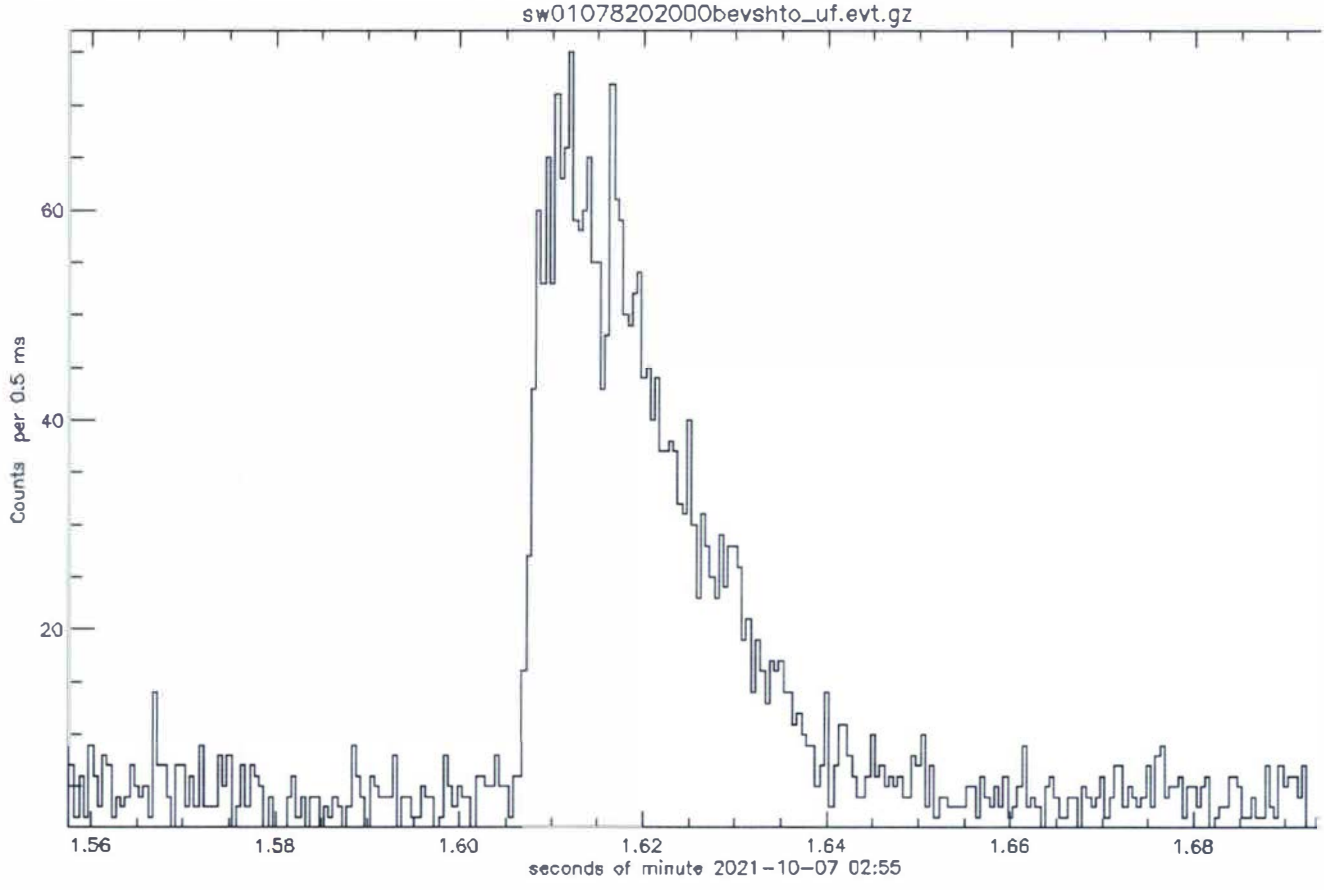

KONUS
06/10/2021
65.468
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
300
0
1300
2300
3300
4300
10000
20000
30000
40000
50000
60000
70000
80000
TI. SECS
DETECTOR 2 - N. ECLIPTIC
07/10/2021


KONUS 07/10/2021 54.195 v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
100
1100
2100
3100
4100
0
10000
20000
30000
40000
50000
60000
70000
80000
90000
T E. SECS
DETECTOR 1 - S. ECLIPTIC
07/10/2021


KONUS
10- 50 keV
50- 200 keV
200- 750 keV
07/10/2021
54.195
v01
DETECTOR 2 - N. ECLIPTIC
09/10/2021
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
90000
T E. SECS

Subject: Re: Magnetar: BAT Detects SGRJ1555-5402 burst
From: "'Palmer, David' via ipn" <ipn@ssl.berkeley.edu>
Date: 10/7/2021, 7:38 AM
To: IPN <ipn@ssl.berkeley.edu>
CC: Teruaki Enoto <teruaki.enoto@gmail.com>, "Younes, George" <gyounes@email.gwu.edu>, Victoria Kaspi <vkaspi@physics.mcgill.ca>, "Victoria Kaspi, Prof." <victoria.kaspi@mcgill.ca>, "victoria.kaspi@gmail.com" <victoria.kaspi@gmail.com>, "Kouveliotou, Chryssa" <ckouveliotou@email.gwu.edu>, Takanori Sakamoto <tsakamoto@phys.aoyama.ac.jp>, "Lorella.Angelini-1@nasa.gov" <Lorella.Angelini-1@nasa.gov>, Alexander Cooper <a.j.cooper@uva.nl>, "David Palmer" <dmopalmer@gmail.com>, Noel Klingler <noelklin@umbc.edu>

Lightcurve for SGR Swift J1555-5402 with 0.5 ms timebins.



Trigger #1078202

swinfo 2021-10-07T02:54:56 -s SGRJ1555-5402 -o
Swift Zenith(RA,dec): 327.85, 13.81
Swift Location(lon,lat,alt): -91.60 E, 13.92 N, 546 km
Time(MET + UTCF -> UT): 655268123.857 + -27.857 -> 2021-10-07T02:54:55.999
YYMMDD_SOD: 211007_10495.999 DOY=280
Obs Sequence Number: 00096358015
Obs Target Name: SBS3 J1748.9-2808
Obs Date and Times: 2021-10-07 02:52:33 - 02:55:32
Obs Pointing(ra,dec,roll): 267.215, -28.138, 263.23
SGRJ1555-5402_imageloc (boresight_dist, angle): (33, -143)
SGRJ1555-5402_exposure (cm^2 cos adjusted): 2881
SGRJ1555-5402_altitude: 12 (depressed but unattenuated)

--
David Palmer palmer@lanl.gov (505) 665-6863
Socially Distant: Work-From-Home (505) 695-9190

On Oct 7, 2021, at 1:04 AM, palmer+BAT_source_notification@lanl.gov wrote:

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

Mail notification of BAT detection reported in VOEvent

Experimental notification system. If you don't want to receive these, email palmer@lanl.gov

BAT detected SGRJ1555-5402 1 times
as reported in the following VOEevents:
ivo://nasa.gsfc.gcn/SWIFT#BAT_Known_Pos_-1628626630-006

at date time, UTC	location ra,dec J200	signif sigma	duration s	distance arcmin	source
2021-10-07T02:54:56	(238.864, -54.082)	6.0	0.0	2.9	SGRJ1555-5402

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated report from publicly-available scientific data

Attachments:

sw01078202000bevshto_uf.evt.gz.ipn 120 KB

GBM

Oct 7 2021 17:39:49

SGR



Windows Printer Test Page

You have correctly installed your HP Universal Printing PS on SSL-PRINT.

PRINTER PROPERTIES

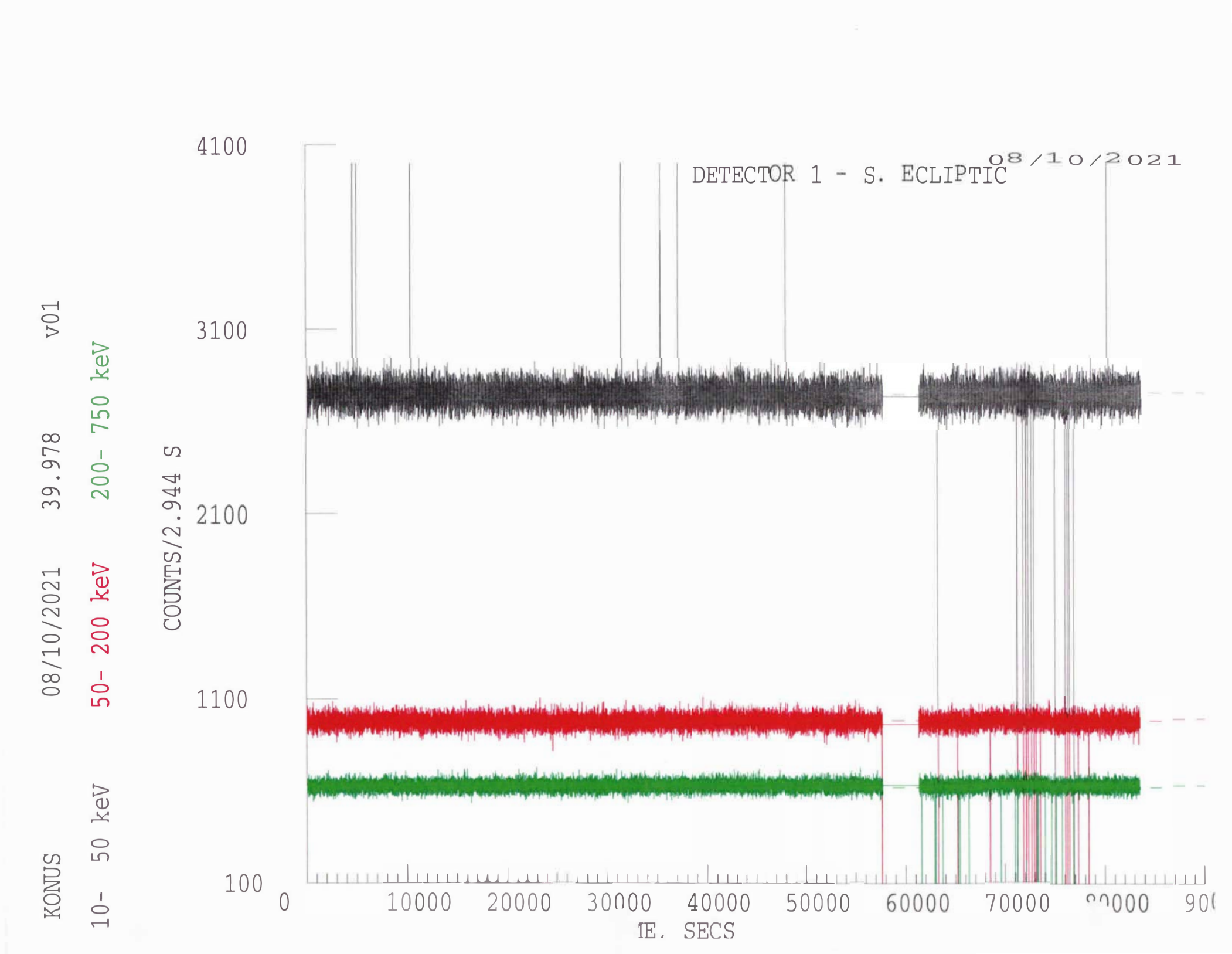
Submitted Time:	11:24:53 AM
Date:	10/28/2021
User Name:	SSL-PRINT\Administrator
Computer Name:	SSL-PRINT
Printer Name:	hurleyprint2
Printer Model:	HP Universal Printing PS
Color Support:	Yes
Port Name(s):	WSD-37fe3bdb-abbd-4ba9-ae2b-de36cf0e4259.003c
Data Format:	RAW
Printer Share Name:	hurleyprint2
Printer Location:	SSL-109
Print Processor:	hpcpp160
Comment:	hurleyprint2 -- HP Color LaserJet M651 -- Rm. SSL-109 -- Kevin Hurley
Separator Page Location:	
OS Environment:	Windows x64

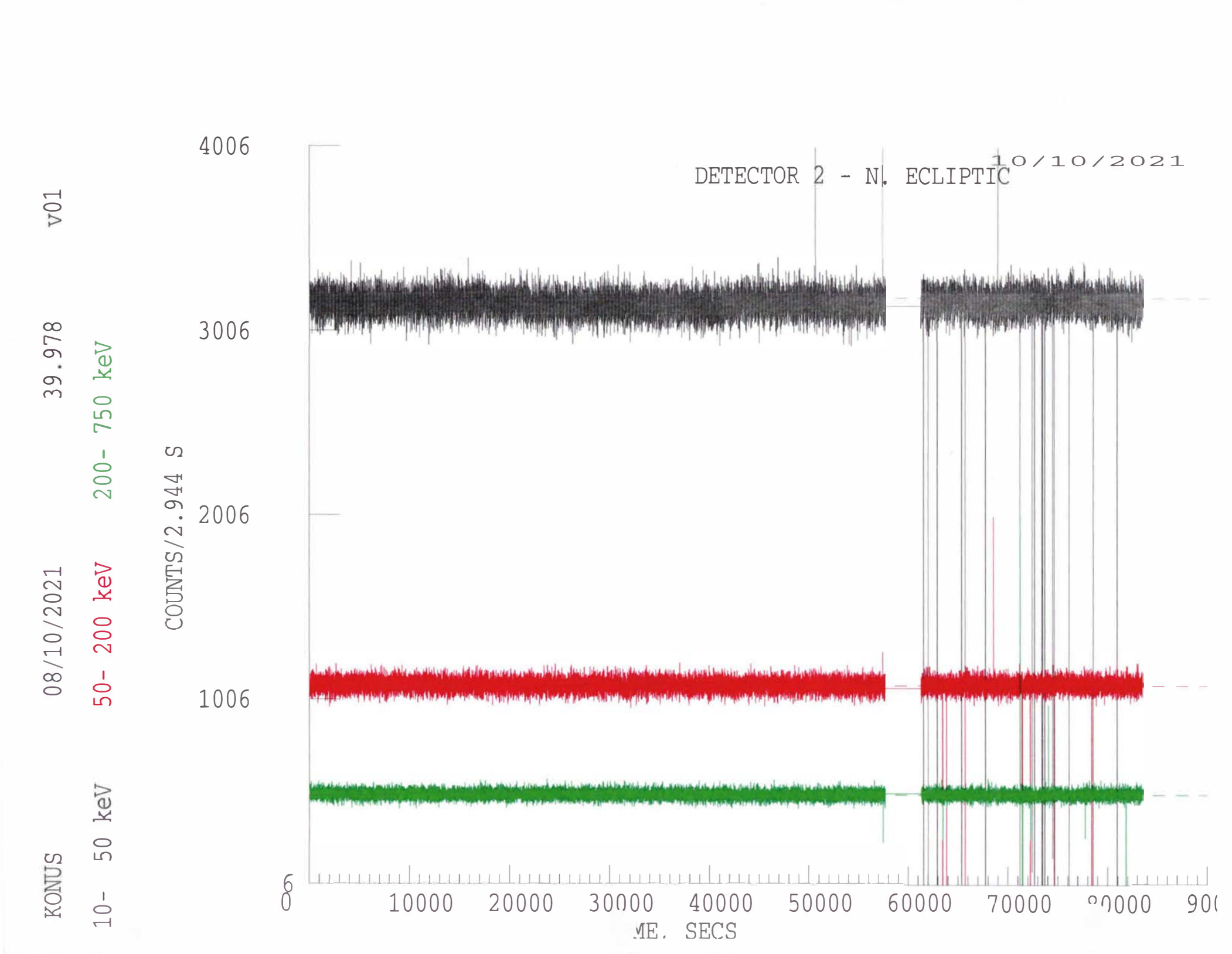
PRINT DRIVER PROPERTIES

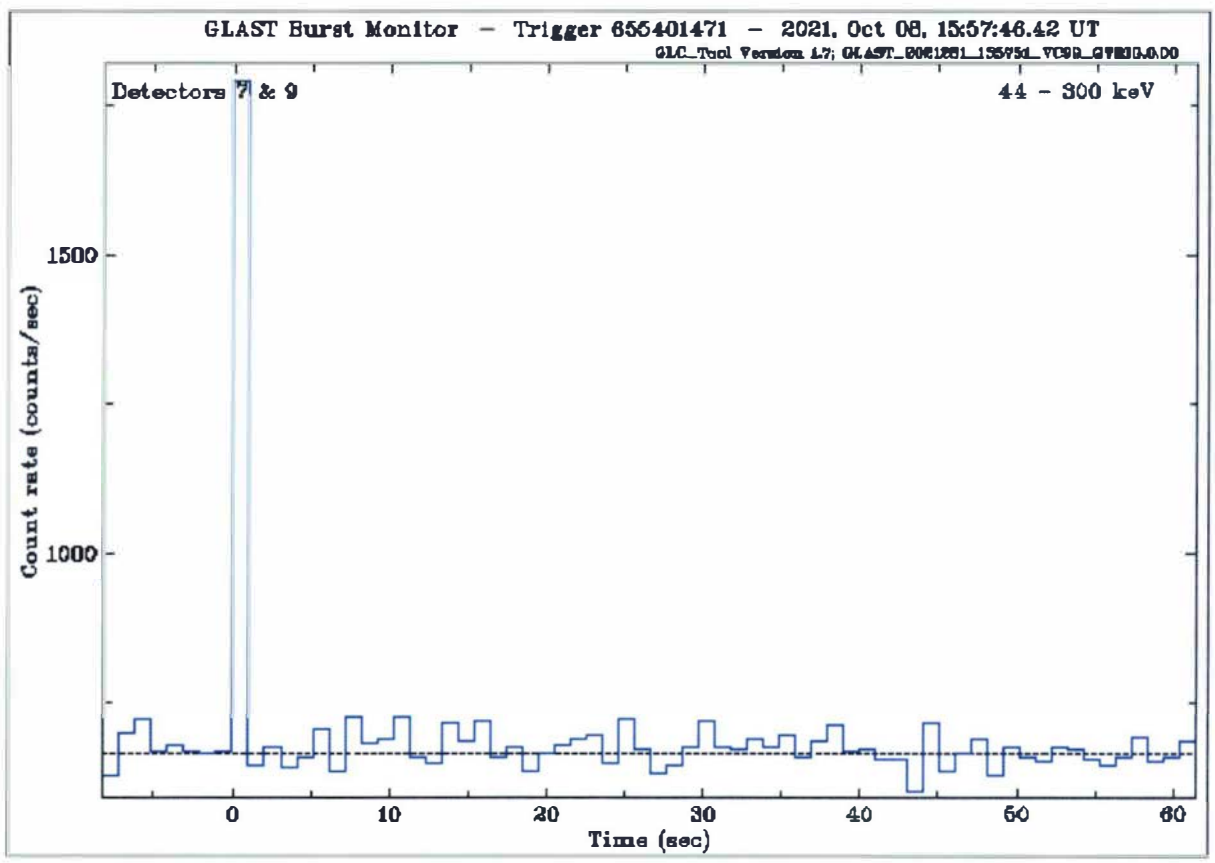
Driver Name:	HP Universal Printing PS
Driver Type:	Type 3 - User Mode
Driver Version:	61.160.1.17508

ADDITIONAL PRINT DRIVER FILES

C:\Windows\system32\spool\DRIVERS\x64\3\hpcdmc64.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpbcfgre.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpcpu160.cfg
C:\Windows\system32\spool\DRIVERS\x64\3\hpcui160.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpcpe160.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpcur160.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpcpn160.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpcsr160.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpcst160.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpcev160.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpcu160s.hpx
C:\Windows\system32\spool\DRIVERS\x64\3\hpcsc160.dtd
C:\Windows\system32\spool\DRIVERS\x64\3\hpchl160.cab
C:\Windows\system32\spool\DRIVERS\x64\3\hpzfn160.ntf
C:\Windows\system32\spool\DRIVERS\x64\3\hpcu160.dem
C:\Windows\system32\spool\DRIVERS\x64\3\hpmux160.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpmur160.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpmpm081.dll
C:\Windows\system32\spool\DRIVERS\x64\3\hpmpw081.dll


KONUS
08/10/2021
39.978
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 1 - S. ECLIPTIC
08/10/2021
COUNTS/2.944 S
4100
3100
2100
1100
100
0
10000
20000
30000
40000
50000
60000
70000
TIME. SECS


KONUS
08/10/2021
39.978
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
10/10/2021
COUNTS/2.944 S
4006
3006
2006
1006
6
0
10000
20000
30000
40000
50000
60000
70000
ME. SECS


GLAST Burst Monitor - Trigger 655401471 - 2021, Oct 08, 15:57:46.42 UT
Detectors 7 & 9
44 - 300 keV
1500
1000
Count rate (counts/sec)
0
10
20
30
40
50
60
Time (sec)

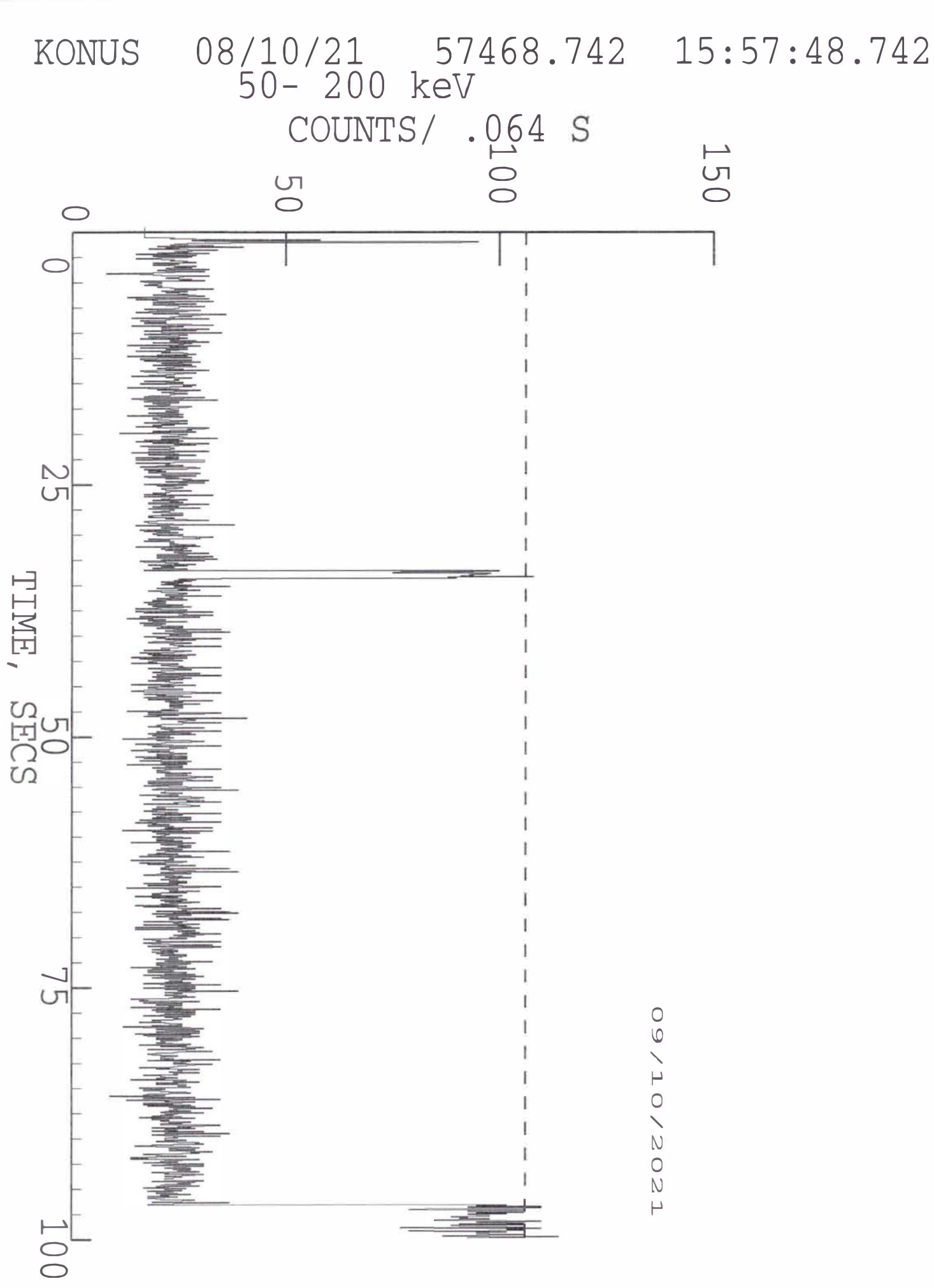
Subject: Fermi Gamma-ray Burst Monitor trigger 211008665/655401471 is not a GRB
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Date: 10/8/2021, 5:52 PM
To: khurley@ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 30928
SUBJECT: Fermi Gamma-ray Burst Monitor trigger 211008665/655401471 is not a GRB
DATE: 21/10/09 00:51:33 GMT
FROM: Boyan A. Hristov at UAH <bah0046@uah.edu>

B. Hristov (UAH) reports on behalf of the Fermi-GBM Team:

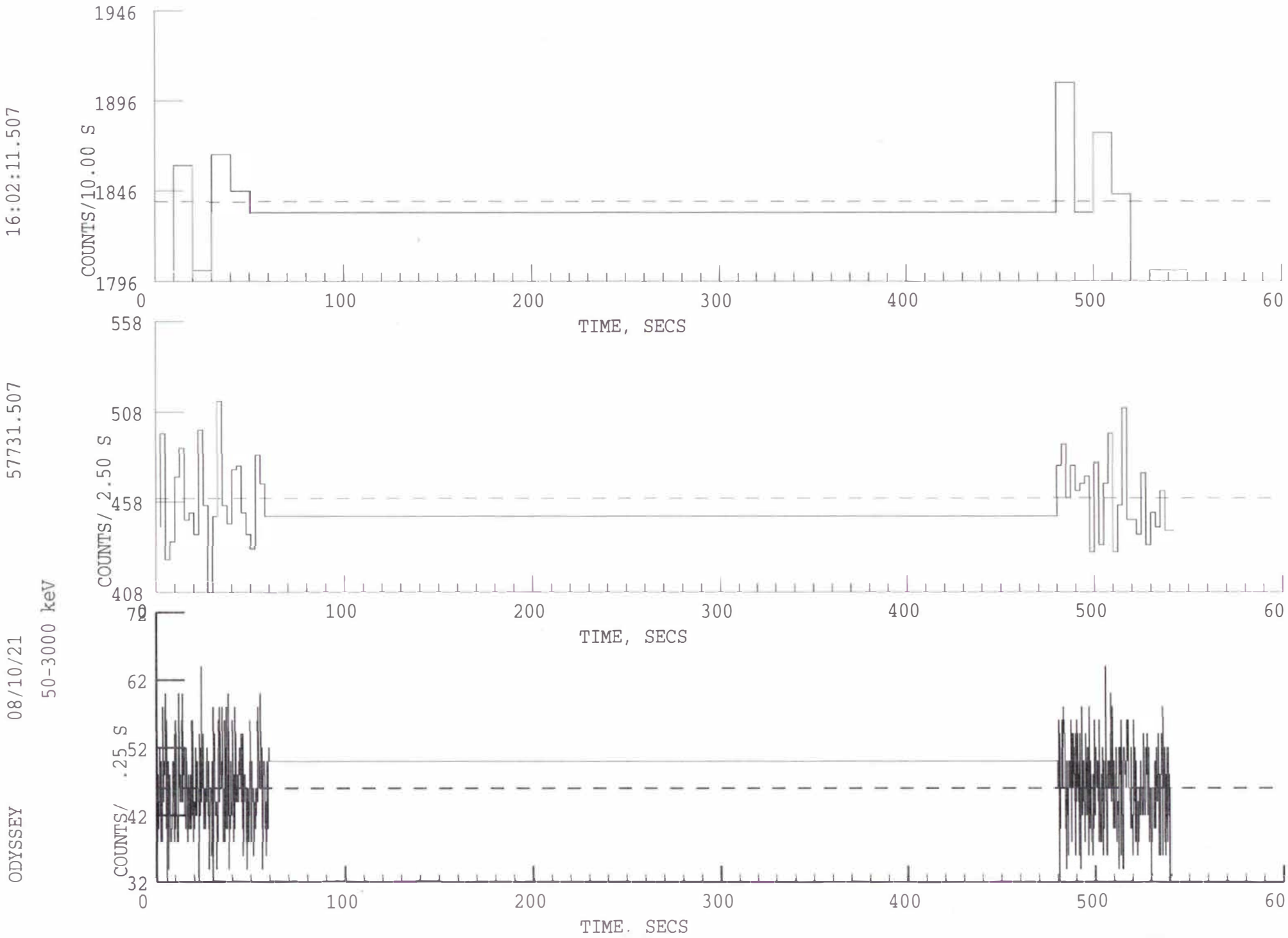
"The Fermi Gamma-ray Burst Monitor (GBM) trigger 211008665/655401471
at 15:57:46.42 UT on 08 October 2021, tentatively classified as a GRB,
is in fact not a GRB. The event is likely due to SGR J1935+2154."

For Fermi GBM data and info, please visit
the official Fermi GBM Support Page:
https://fermi.gsfc.nasa.gov/ssc/data/access/gbm/


KONUS 08/10/21 57468.742 15:57:48.742
50- 200 keV
COUNTS/ .064 S
0
50
100
150
0
25
50
75
100
TIME, SECS
09/10/2021


KONUS 08/10/21 COUNTS/SEC 57468.000 15:57:48.000
10/10/2021
15-50 kev +2000
50-200 keV + 1000
200-700 keV
40000
30000
20000
10000
0
0 25 50 75 100 125 150 175 200 225 25
TIME, SECS

11/10/2021


16:02:11.507
57731.507
08/10/21
ODYSSEY
50-3000 keV
COUNTS/10.00 S
1946
1896
1846
1796
0
100
200
300
400
500
60
TIME, SECS
COUNTS/ 2.50 S
558
508
458
408
0
100
200
300
400
500
60
TIME, SECS
COUNTS/ .25 S
72
62
52
42
32
0
100
200
300
400
500
60
TIME. SECS

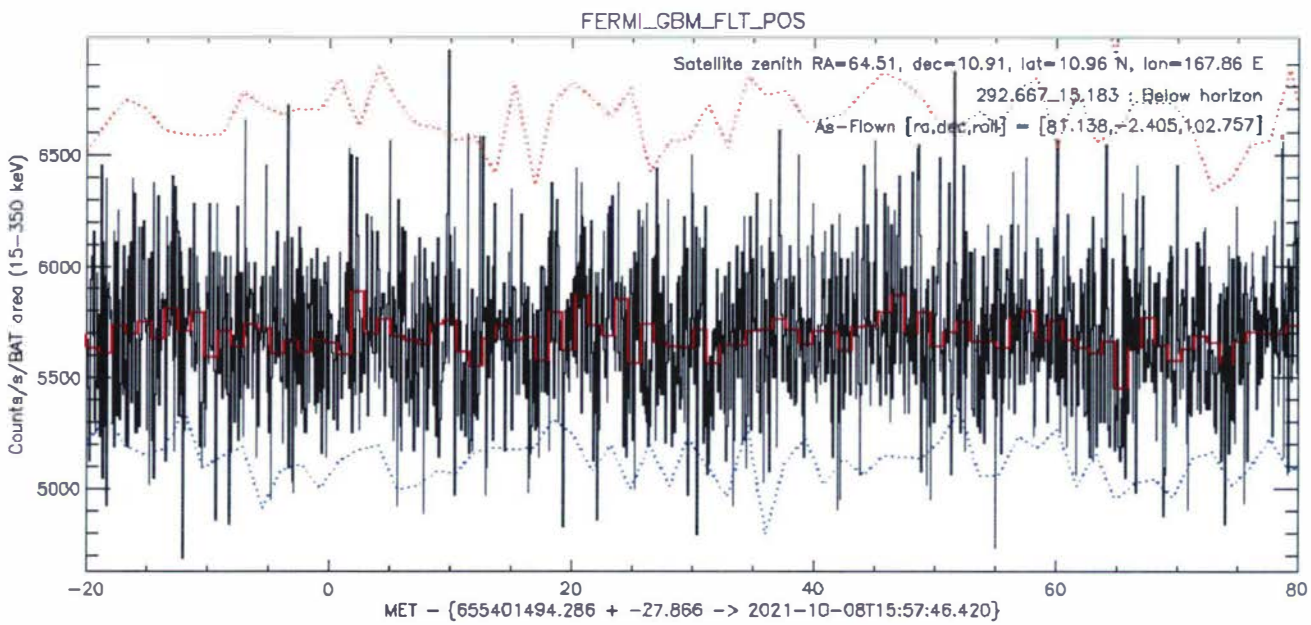
Subject: BAT lightcurve for trigger at 211008_1557
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/8/2021, 11:12 AM
To: vestrand@lanl.gov, aaron.tohu@gmail.com, palmer+automatic_lightcurve@lanl.gov, ipn@ssl.berkeley.edu, bat_team@bigbang.gsfc.nasa.gov, dmopalmer@gmail.com, mkippen@lanl.gov, gbm-burst-advocate@lists.nasa.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655401494.286 -s 292.667_15.183
Swift Zenith(RA,dec):          64.51, 10.91
Swift Location(lon,lat,alt):  167.86 E, 10.96 N, 555 km
Time(MET + UTCF -> UT):   655401494.286 + -27.866 -> 2021-10-08T15:57:46.420
YYMMDD_SOD:                    211008_57466.420       DOY=281
Obs Sequence Number:           00039018003
Obs Target Name:               J052429.7-022403
Obs Date and Times:            2021-10-08   15:45:34 - 16:11:29
Obs Pointing(ra,dec,roll):     81.138, -2.405, 102.76
292.667_15.183_imageloc (boresight_dist, angle): (146, 101)
292.667_15.183_exposure (cm^2 cos adjusted): 0
292.667_15.183_altitude: -13 (down)
```

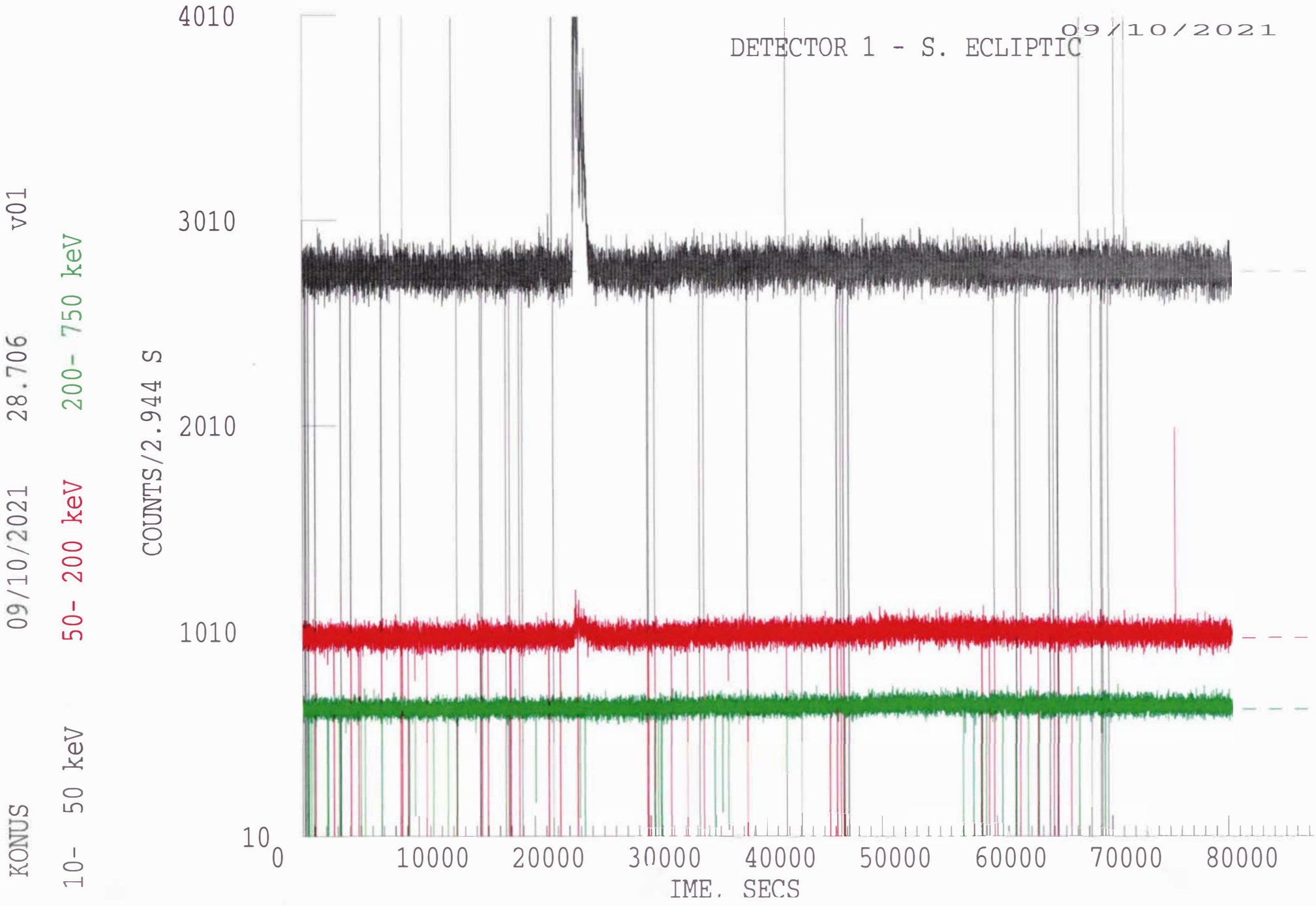
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

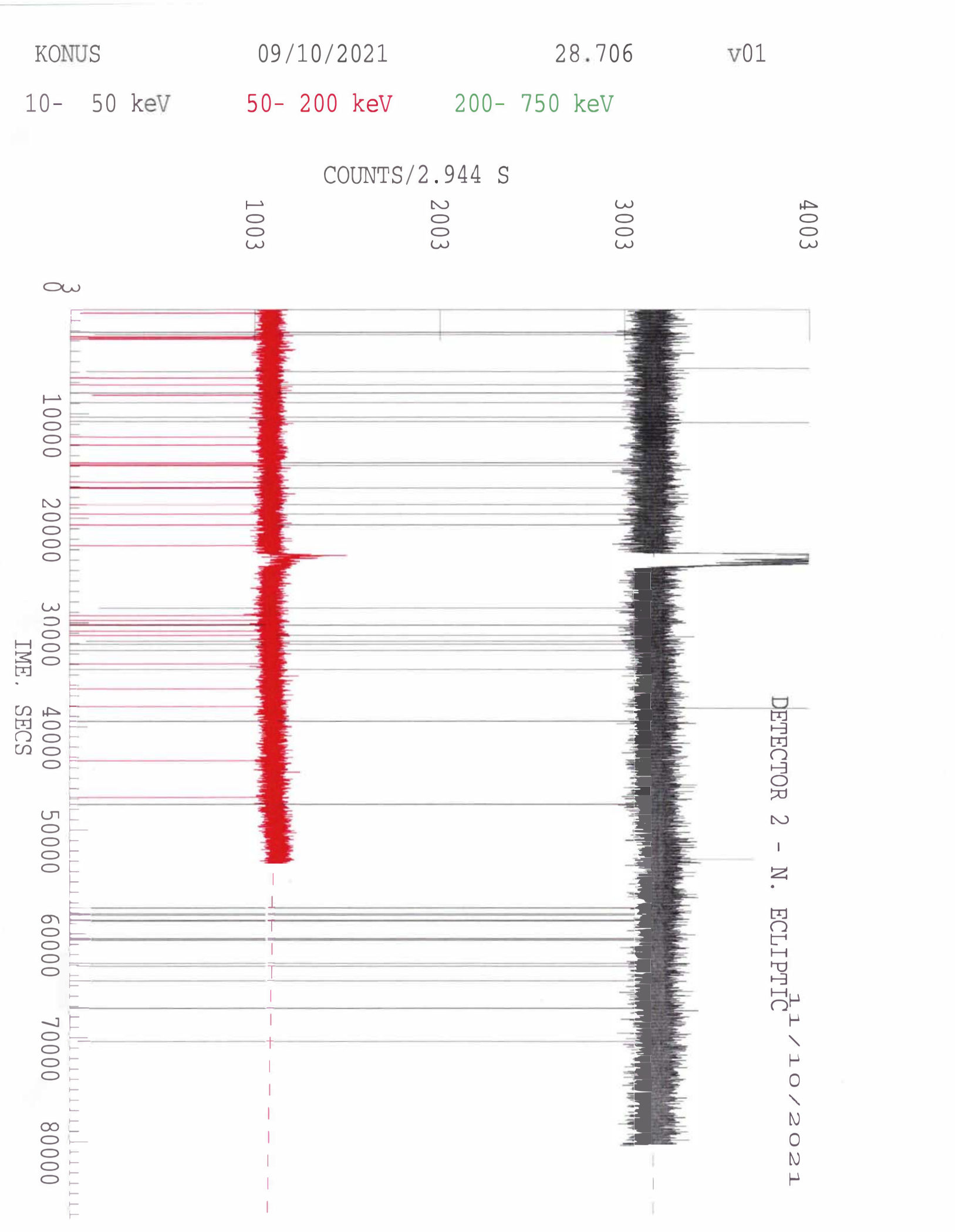
/tmp/swift/211008_1557.png



Attachments:

/tmp/swift/211008_1557.png	17.9 KB
/tmp/swift/211008_1557_bat64ms_ipn	87.1 KB


KONUS
09/10/2021
28.706
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 1 - S. ECLIPTIC
09/10/2021
COUNTS/2.944 S
4010
3010
2010
1010
10
0
10000
20000
30000
40000
50000
60000
70000
80000
IME. SECS


KONUS
09/10/2021
28.706
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
1003
2003
3003
4003
0
10000
20000
30000
40000
50000
60000
70000
80000
IME. SECS
DETECTOR 2 - N. ECLIPTIC
11/10/2021

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Sun Oct 10 03:46:50
Date: Sun, 10 Oct 2021 06:46:45 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT_BAT_LIGHTCURVE

```
TITLE:           GCN/SWIFT NOTICE
NOTICE_DATE:     Sun 10 Oct 21 10:46:44 UT
NOTICE_TYPE:     Swift-BAT GRB Lightcurve
TRIGGER_NUM:     1078701,   Seg_Num: 0
GRB_RA:          287.080d {+19h 08m 19s} (J2000),
                 287.293d {+19h 09m 10s} (current),
                 286.592d {+19h 06m 22s} (1950)
GRB_DEC:         +29.822d {+29d 49' 19"} (J2000),
                 +29.858d {+29d 51' 28"} (current),
                 +29.741d {+29d 44' 29"} (1950)
GRB_DATE:        19497 TJD;   283 DOY;   21/10/10
GRB_TIME:        38556.02 SOD {10:42:36.02} UT
TRIGGER_INDEX:   10400
GRB_PHI:          -8.17 [deg]
GRB_THETA:        46.61 [deg]
DELTA_TIME:      10.00 [sec]
TRIGGER_DUR:     0.064 [sec]
SOLN_STATUS:     0x83
RATE_SIGNIF:     6.48 [sigma]
IMAGE_SIGNIF:    6.50 [sigma]
LC_URL:          sw01078701000msb.lc
SUN_POSTN:       196.00d {+13h 04m 00s}   -6.81d {-06d 48' 47"}
SUN_DIST:         94.50 [deg]   Sun_angle= -6.1 [hr] (East of Sun)
MOON_POSTN:      249.98d {+16h 39m 56s}  -22.85d {-22d 50' 52"}
MOON_DIST:        63.75 [deg]
MOON_ILLUM:      21 [%]
GAL_COORDS:       61.53,  9.78 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS:      294.35, 51.83 [deg] ecliptic lon,lat of the burst (or transient
COMMENTS:        SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS:        The next comments were copied from the BAT_POS Notice:
COMMENTS:        This is a rate trigger.
COMMENTS:        A point_source was found.
COMMENTS:        This does not match any source in the on-board catalog.
COMMENTS:        This does not match any source in the ground catalog.
COMMENTS:        This is a GRB.
COMMENTS:        Since the IMAGE_SIGNIF is less than 7 sigma, this is a question
COMMENTS:        This trigger occurred at longitude,latitude = 185.47,19.99 [deg
```

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Sun Oct 10 04:01:12
Date: Sun, 10 Oct 2021 07:01:08 -0400
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: Swift Trigger 1078701 is probably not a GRB

TITLE: GCN CIRCULAR
NUMBER: 30929
SUBJECT: Swift Trigger 1078701 is probably not a GRB
DATE: 21/10/10 11:00:39 GMT
FROM: David Palmer at LANL <palmer@lanl.gov>

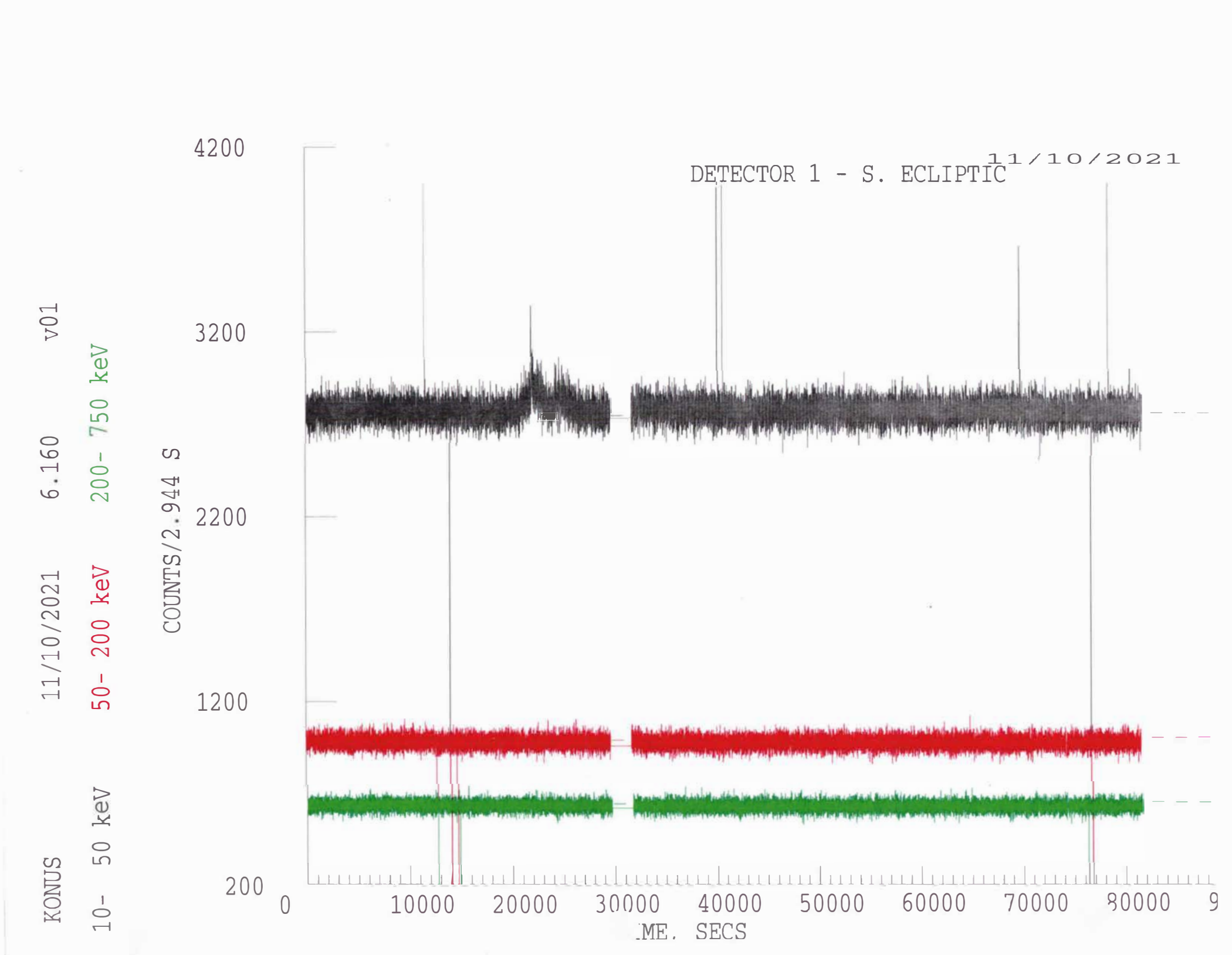
M. G. Bernardini (INAF-OAB), P. D'Avanzo (INAF-OAB),
N. J. Klingler (GSFC/UMBC/CRESSTII), A. Y. Lien (U Tampa),
A. Melandri (INAF-OAB), K. L. Page (U Leicester), D. M. Palmer (LANL)
and T. Sbarrato (INAF-OAB) report on behalf of the Neil Gehrels Swift
Observatory Team:

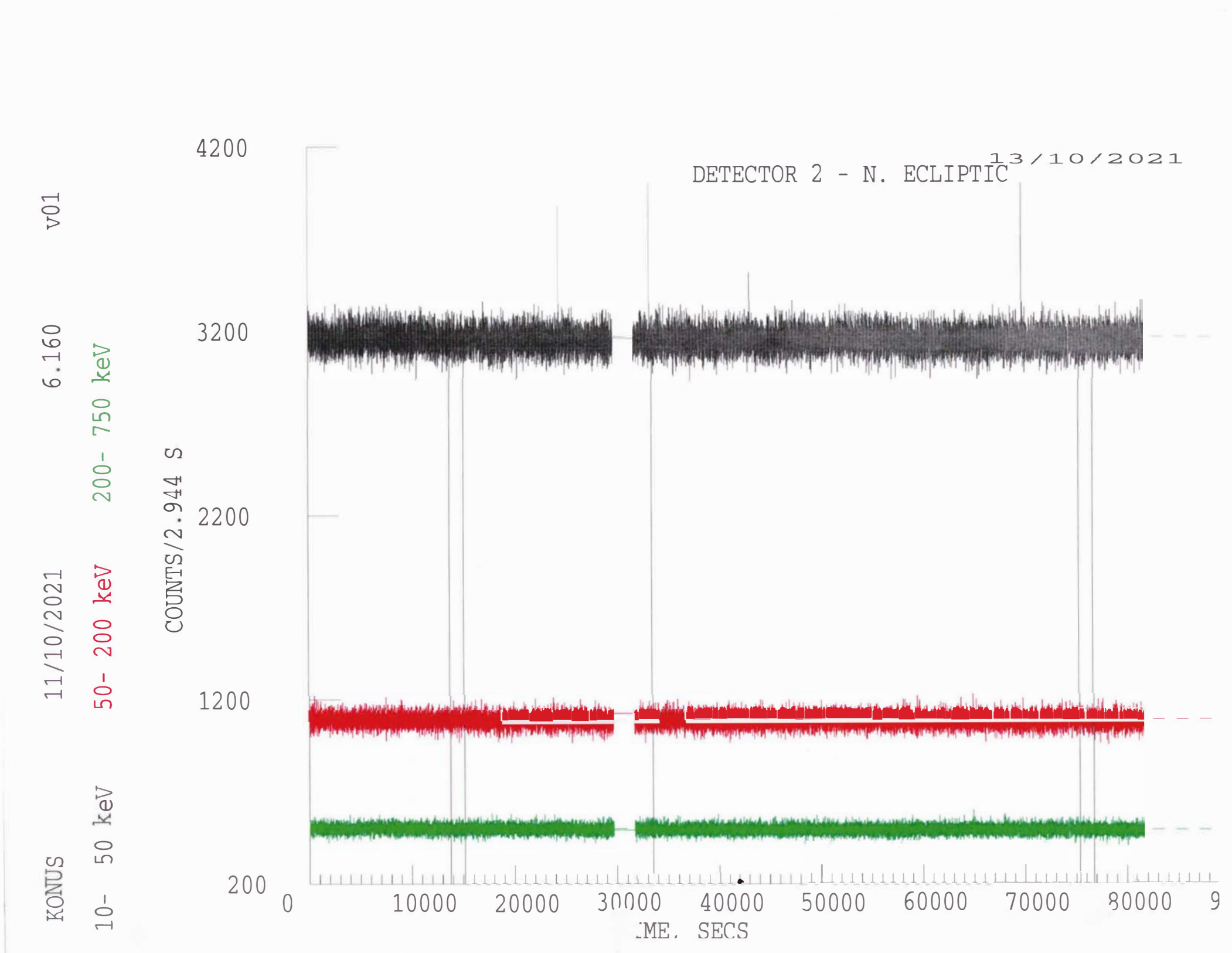
At 10:42:36 UT, the Swift Burst Alert Telescope (BAT) triggered on
an event with marginal significance (trigger=1078701). Swift slewed
immediately to the location.
The BAT on-board calculated location is
RA, Dec 287.080, +29.822 which is
RA(J2000) = 19h 08m 19s
Dec(J2000) = +29d 49' 19"
with an uncertainty of 3 arcmin (radius, 90% containment, including
systematic uncertainty). The BAT light curve doesn't show anything
significant.

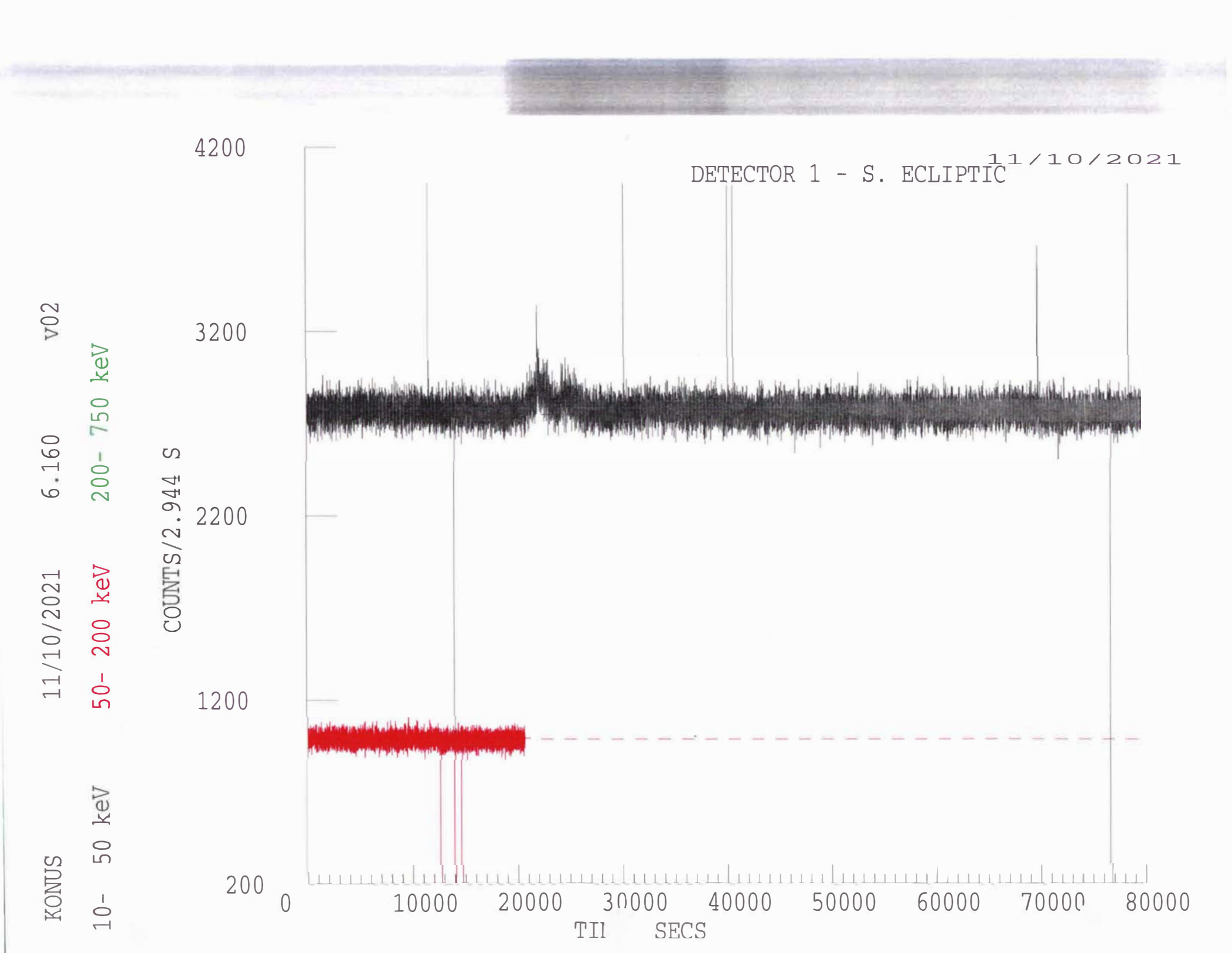
The XRT began observing the field at 10:44:08.6 UT, 92.8 seconds after
the BAT trigger. No source was detected in 127 s of promptly downlinked
data. We are waiting for the full dataset to detect and localise the
XRT counterpart.

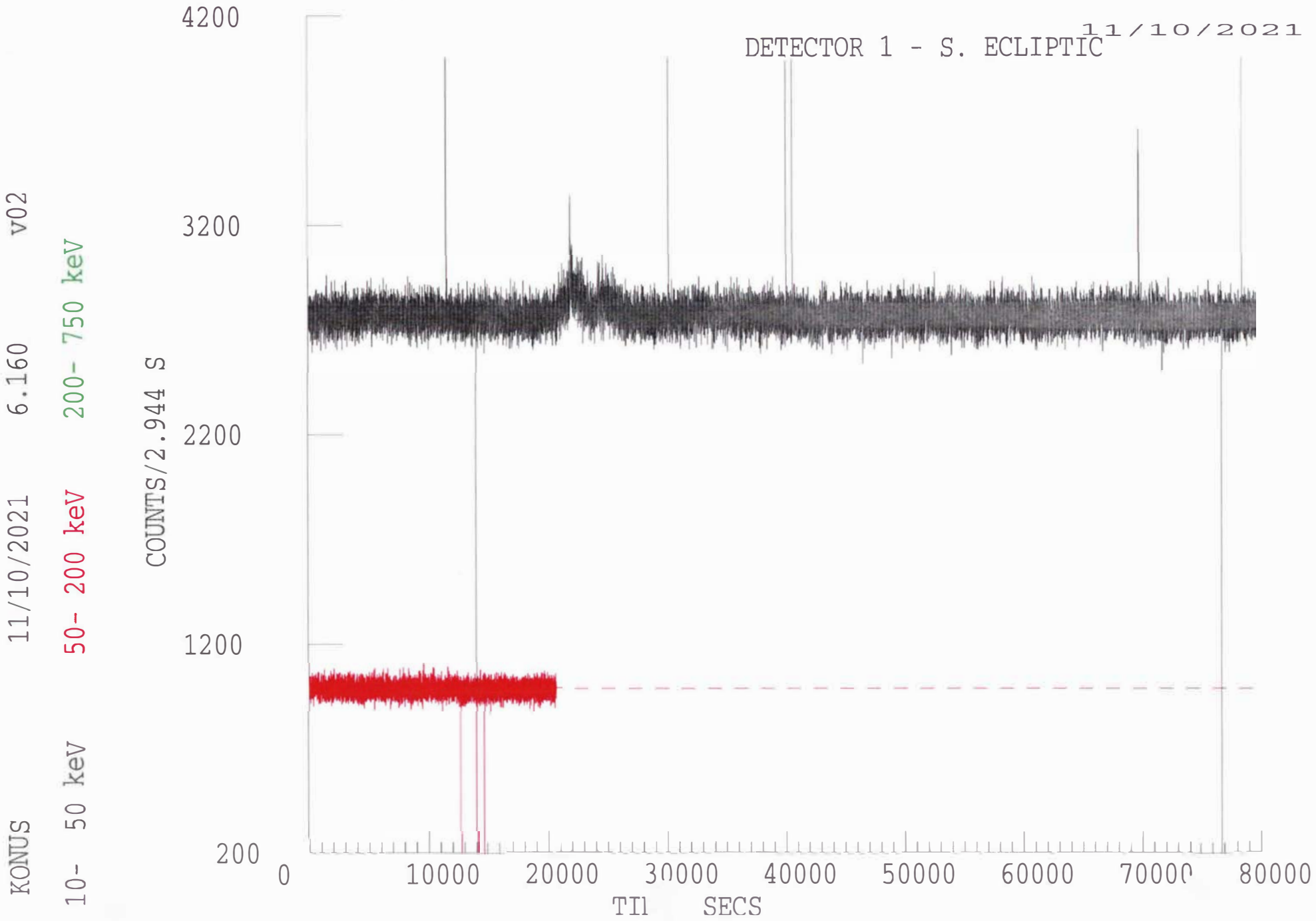
UVOT took a finding chart exposure of 138 seconds with the White filter
starting 97 seconds after the BAT trigger. No credible afterglow candidate has
been found in the initial data products. The 2.7'x2.7' sub-image covers 25% of
the BAT error circle. The typical 3-sigma upper limit has been about 19.6 mag.
The 8'x8' region for the list of sources generated on-board covers 100% of the
BAT error circle. The list of sources is typically complete to about 18 mag. No
correction has been made for the expected extinction corresponding to E(B-V) of
0.231.

Due to the marginal detection significance in both BAT rates and
on-board image (6.48 and 6.50 sigma respectively) with no detection
in the ground image analysis, and the lack of detection by XRT, we
believe that this is probably a noise fluctuation in BAT and not an
astrophysical event.


DETECTOR 1 - S. ECLIPTIC
11/10/2021
KONUS
11/10/2021
6.160
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
ME. SECS


KONUS
11/10/2021
6.160
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
13/10/2021
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
TIME, SECS


DETECTOR 1 - S. ECLIPTIC
11/10/2021
KONUS
11/10/2021
6.160
v02
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
TII SECS


DETECTOR 1 - S. ECLIPTIC
11/10/2021
KONUS 11/10/2021 6.160 v02
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
TIl SECS

GBM

Oct 11 2021 07:41:20

SGR

Subject: Re: BAT lightcurve for trigger at 211011_1159
From: Aaron Tohuvavohu <aaron.tohu@gmail.com>
Date: 10/11/2021, 9:31 AM
To: "<palmer+automatic_lightcurve@lanl.gov>" <palmer+automatic_lightcurve@lanl.gov>
CC: "Kippen, Marc" <mkippen@lanl.gov>, "Vestrand, W" <vestrand@lanl.gov>, David Palmer <dmopalmer@gmail.com>, ipn@ssl.berkeley.edu, bat_team@bigbang.gsfc.nasa.gov, gbm-burst-advocate@lists.nasa.gov

BAT confirms this is SGR 1935+2154 in onboard imaging.

On Mon, Oct 11, 2021 at 10:33 AM <palmer+automatic_lightcurve@lanl.gov> wrote:

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655646408.673 -s 313.017_20.133
Swift Zenith(RA,dec):       317.32, 18.14
Swift Location(lon,lat,alt):  117.36 E, 18.23 N, 542 km
Time(MET + UTCF -> UT):  655646408.673 + -27.882 -> 2021-10-11T11:59:40.791
YYMMDD_SOD:              211011_43180.791      DOY=284
Obs Sequence Number:        03111022003
Obs Target Name:          SGPS J1850.6+0013
Obs Date and Times:         2021-10-11  11:39:34 - 12:09:29
Obs Pointing(ra,dec,roll):   282.611, 0.227, 255.26
313.017_20.133_imageloc (boresight_dist, angle): (36, 69)
313.017_20.133_exposure (cm^2 cos adjusted): 1323
313.017_20.133_altitude: 108 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

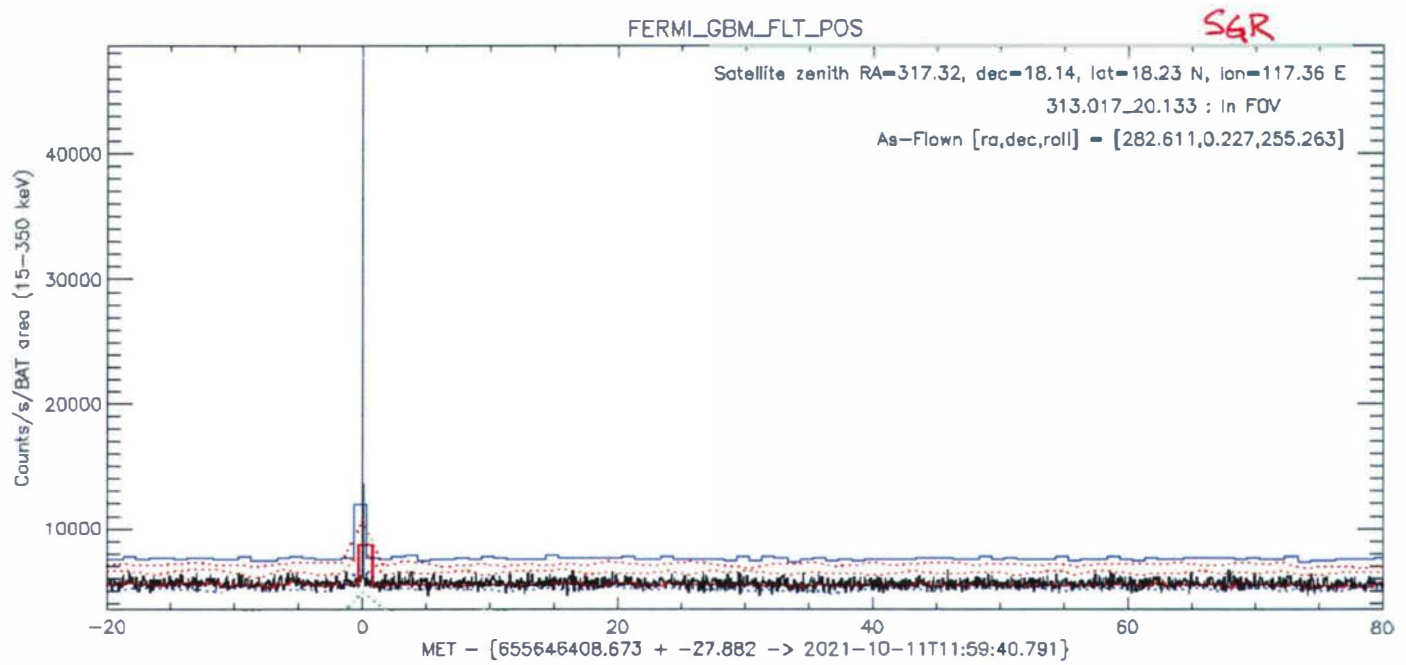
Subject: BAT lightcurve for trigger at 211011_1159
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/11/2021, 7:33 AM
To: mkippen@lanl.gov, vestrand@lanl.gov, dmopalmer@gmail.com, ipn@ssl.berkeley.edu, bat_team@bigbang.gsfc.nasa.gov, aaron.tohu@gmail.com, palmer+automatic_lightcurve@lanl.gov, gbm-burst-advocate@lists.nasa.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655646408.673 -s 313.017_20.133
Swift Zenith(RA,dec):          317.32, 18.14
Swift Location(lon,lat,alt):  117.36 E, 18.23 N, 542 km
Time(MET + UTCF -> UT):   655646408.673 + -27.882 -> 2021-10-11T11:59:40.791
YYMMDD_SOD:                    211011_43180.791       DOY=284
Obs Sequence Number:           03111022003
Obs Target Name:               SGPS J1850.6+0013
Obs Date and Times:            2021-10-11   11:39:34 - 12:09:29
Obs Pointing(ra,dec,roll):     282.611, 0.227, 255.26
313.017_20.133_imageloc (boresight_dist, angle): (36, 69)
313.017_20.133_exposure (cm² cos adjusted): 1323
313.017_20.133_altitude: 108 (up)
```

David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211011_1159.png



Attachments:

/tmp/swift/211011_1159.png	12.3 KB
/tmp/swift/211011_1159_bat64ms_ipn	87.0 KB

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Mon Oct 11 09:31:49
From: Aaron Tohuvavohu <aaron.tohu@gmail.com>
Date: Mon, 11 Oct 2021 12:31:32 -0400
Subject: Re: BAT lightcurve for trigger at 211011_1159
To: "<palmer+automatic_lightcurve@lanl.gov>" <palmer+automatic_lightcurve@lanl.g
Cc: "Kippen, Marc" <mkippen@lanl.gov>, "Vestrand, W" <vestrand@lanl.gov>,
   David Palmer <dmopalmer@gmail.com>, ipn@ssl.berkeley.edu,
   bat_team@bigbang.gsfc.nasa.gov, gbm-burst-advocate@lists.nasa.gov
Mailing-list: list ipn@ssl.berkeley.edu; contact ipn+owners@ssl.berkeley.edu

BAT confirms this is SGR 1935+2154 in onboard imaging.

On Mon, Oct 11, 2021 at 10:33 AM <palmer+automatic_lightcurve@lanl.gov>
wrote:

>
>
>
> ******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******
>
>
> % /Users/palmer/anaconda3/envs/stable/bin/swinfo -o 655646408.673 -s
> 313.017_20.133
> Swift Zenith(RA,dec):   317.32, 18.14
> Swift Location(lon,lat,alt): 117.36 E, 18.23 N, 542 km
> Time(MET + UTCF -> UT):   655646408.673 + -27.882 ->
> 2021-10-11T11:59:40.791
> YYMMDD_SOD: 211011_43180.791   DOY=284
> Obs Sequence Number: 03111022003
  Obs Target Name: SGPS J1850.6+0013
  Obs Date and Times: 2021-10-11   11:39:34 - 12:09:29
> Obs Pointing(ra,dec,roll):   282.611, 0.227, 255.26
> 313.017_20.133_imageloc (boresight_dist, angle): (36, 69)
> 313.017_20.133_exposure (cm^2 cos adjusted): 1323
> 313.017_20.133_altitude: 108 (up)
>
>
> --
> David Palmer palmer@lanl.gov   (505)665-6863 (voice)   (505)665-4414
> (fax)
> TSPA -- Automatically generated plot of publicly-available scientific data
>
>

<This message contains 1 attachments (not printed)>

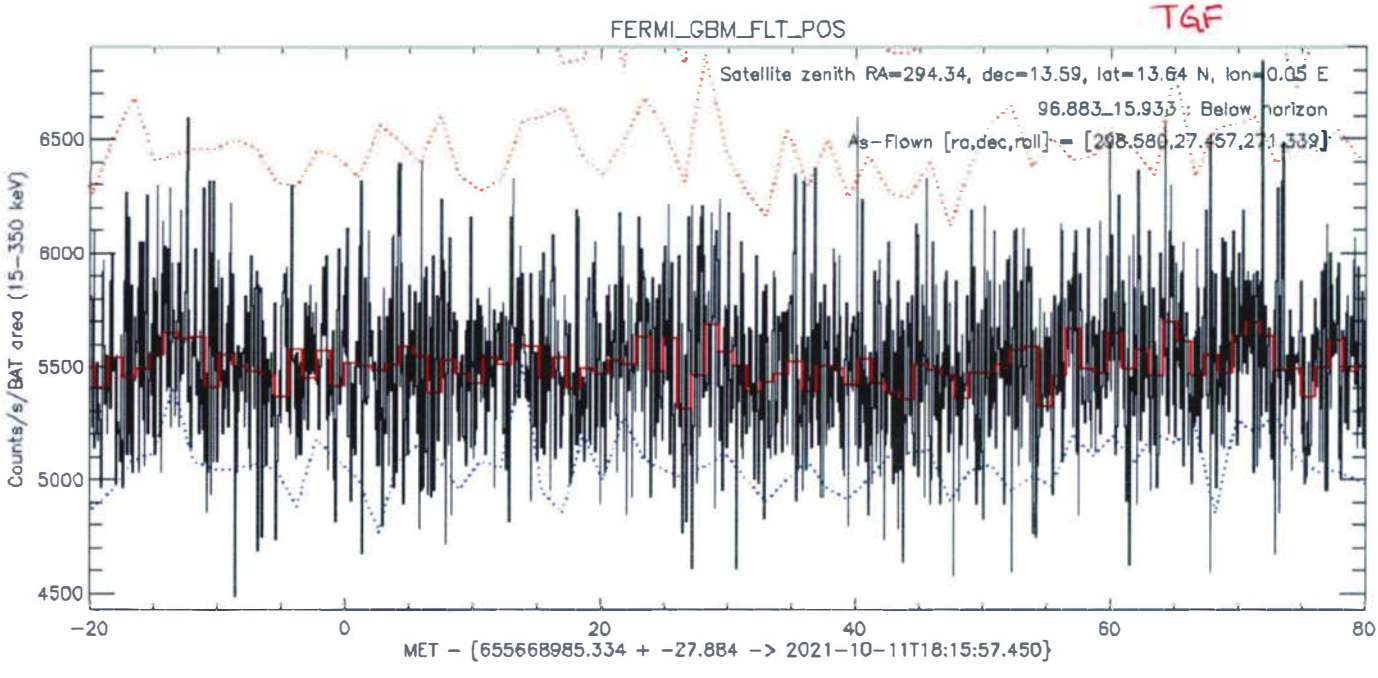
Subject: BAT lightcurve for trigger at 211011_1815
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/11/2021, 3:20 PM
To: aaron.tohu@gmail.com, gbm-burst-advocate@lists.nasa.gov, bat_team@bigbang.gsfc.nasa.gov, mkippen@lanl.gov, dmopalmer@gmail.com, palmer+automatic_lightcurve@lanl.gov, vestrand@lanl.gov, ipn@ssl.berkeley.edu

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655668985.334 -s 96.883_15.933
Swift Zenith(RA,dec):          294.34, 13.59
Swift Location(lon,lat,alt):  0.05 E, 13.64 N, 541 km
Time(MET + UTCF -> UT):   655668985.334 + -27.884 -> 2021-10-11T18:15:57.450
YYMMDD_SOD:                    211011_65757.450       DOY=284
Obs Sequence Number:           03103647004
Obs Target Name:               OGP_0107
Obs Date and Times:            2021-10-11   18:07:34 - 18:22:28
Obs Pointing(ra,dec,roll):     298.580, 27.457, 271.34
96.883_15.933_imageloc (boresight_dist, angle): (132, 27)
96.883_15.933_exposure (cm^2 cos adjusted): 0
96.883_15.933_altitude: -33 (down)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211011_1815.png



Attachments:

/tmp/swift/211011_1815_bat64ms_ipn	87.0 KB
/tmp/swift/211011_1815.png	18.8 KB

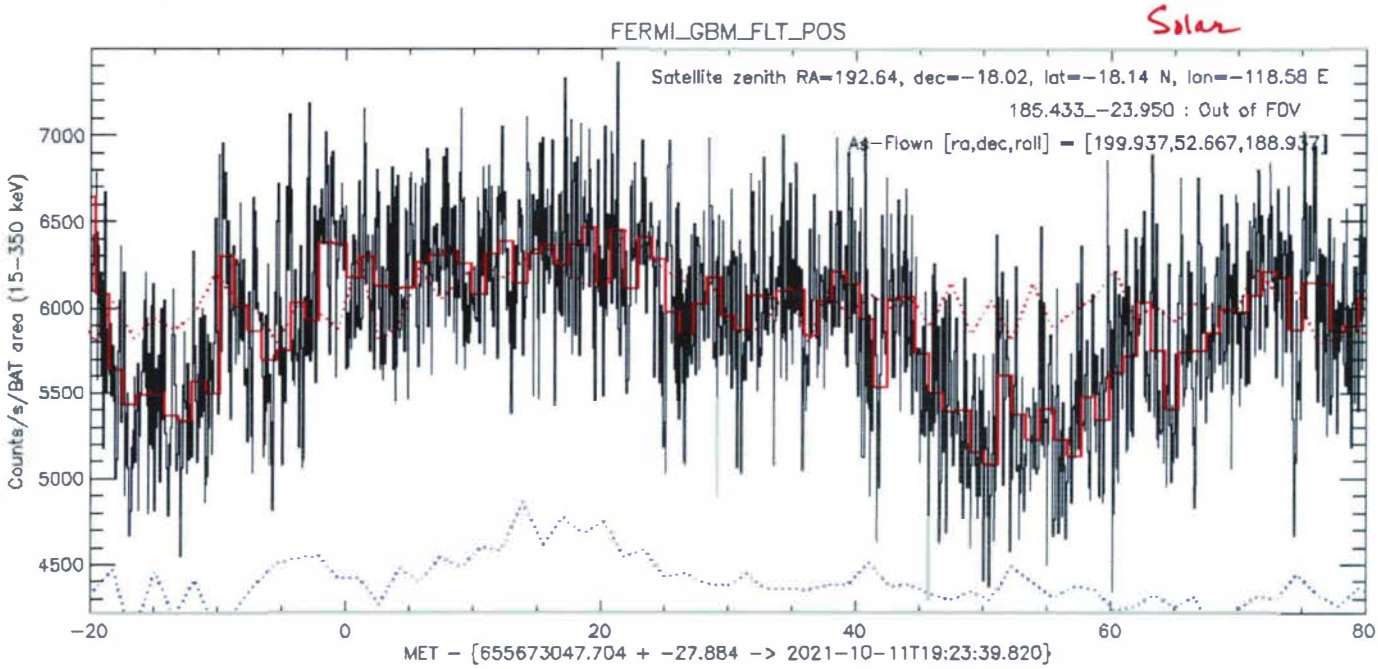
Subject: BAT lightcurve for trigger at 211011_1923
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/11/2021, 3:52 PM
To: gbm-burst-advocate@lists.nasa.gov, mkippen@lanl.gov, vestrand@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, dmopalmer@gmail.com, palmer+automatic_lightcurve@lanl.gov, aaron.tohu@gmail.com, ipn@ssl.berkeley.edu

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655673047.704 -s 185.433_-23.950
Swift Zenith(RA,dec):          192.64, -18.02
Swift Location(lon,lat,alt):  -118.58 E, -18.14 N, 553 km
Time(MET + UTCF -> UT):    655673047.704 + -27.884 -> 2021-10-11T19:23:39.820
YYMMDD_SOD:                    211011_69819.820       DOY=284
Obs Sequence Number:           00095885003
Obs Target Name:               RX J1319.9+5235
Obs Date and Times:            2021-10-11   19:19:34 - 19:34:31
Obs Pointing(ra,dec,roll):     199.937, 52.667, 188.94
185.433_-23.950_imageloc (boresight_dist, angle): (78, -85)
185.433_-23.950_exposure (cm^2 cos adjusted): 0
185.433_-23.950_altitude: 104 (up)
```

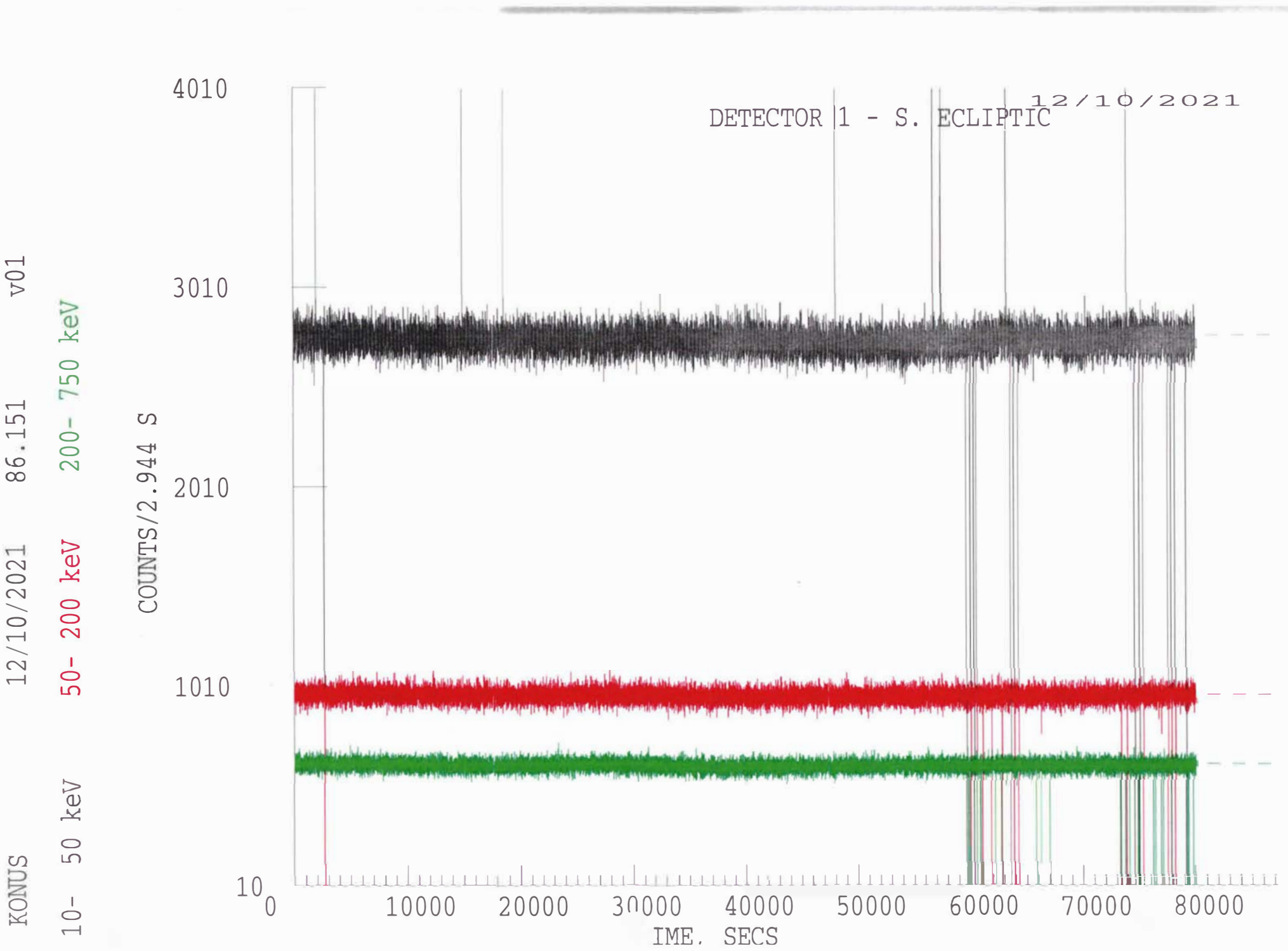
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

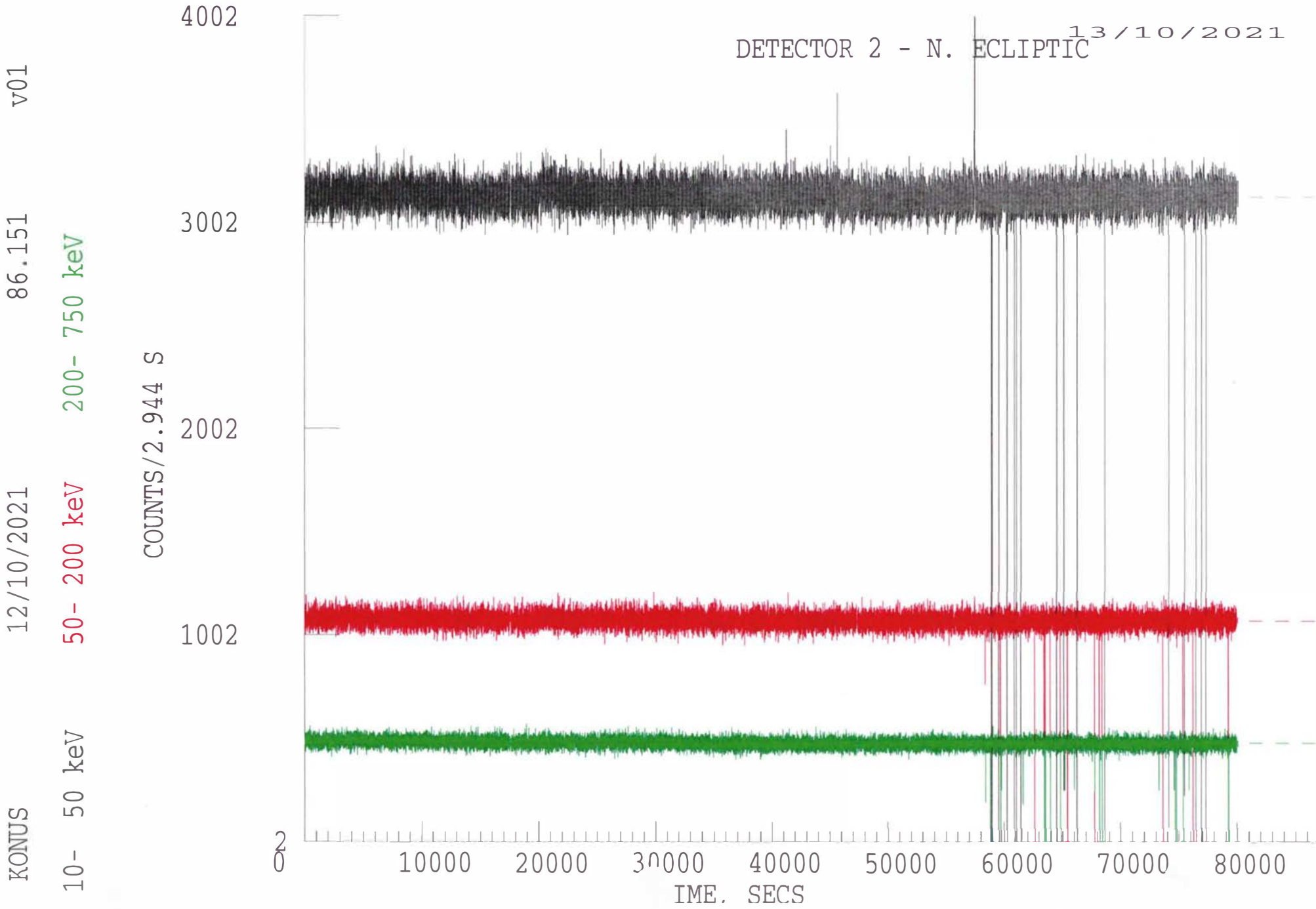
—/tmp/swift/211011_1923.png



—Attachments:

/tmp/swift/211011_1923.png	17.7 KB
/tmp/swift/211011_1923_bat64ms_ipn	87.1 KB


KONUS
12/10/2021
86.151
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 1 - S. ECLIPTIC
12/10/2021
COUNTS/2.944 S
4010
3010
2010
1010
10
0
10000
20000
30000
40000
50000
60000
70000
80000
IME. SECS


KONUS
12/10/2021
86.151
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4002
3002
2002
1002
2
0
DETECTOR 2 - N. ECLIPTIC
13/10/2021
10000
20000
30000
40000
50000
60000
70000
80000
IME. SECS

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Tue Oct 12 04:16:05
Date: Tue, 12 Oct 2021 07:16:01 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/CALET_GBM_FLT_LIGHTCURVE

TITLE: GCN/CALET NOTICE
NOTICE_DATE: Tue 12 Oct 21 11:16:01 UT
NOTICE_TYPE: CALET GBM Flight Lightcurve
POINT_RA: 177.18d {+11h 48m 44s} (J2000),
POINT_DEC: +45.96d {+45d 57' 50"} (J2000),
TRIGGER_NUM: 1318072533
TRIGGER_DATE: 19499 TJD; 285 DOY; 21/10/12
TRIGGER_TIME: 40517.13 SOD {11:15:17.13} UT
TRIGGER_DET: 0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE: 9.50 [sigma]
FOREGND_DUR: 4.00 [sec]
BACKGND_DUR1: 16.00 [sec]
ENERGY_BAND: 40-230 [keV]
SC_LON_LAT: 347.38,45.84 [deg]
LC_URL: http://cgbm.calet.jp/cgbm_trigger/flight//1318072533/index.html
COMMENTS: CALET-GBM Flight Lightcurve.
COMMENTS: The LC_URL file will not be created until ~15 min after the tri

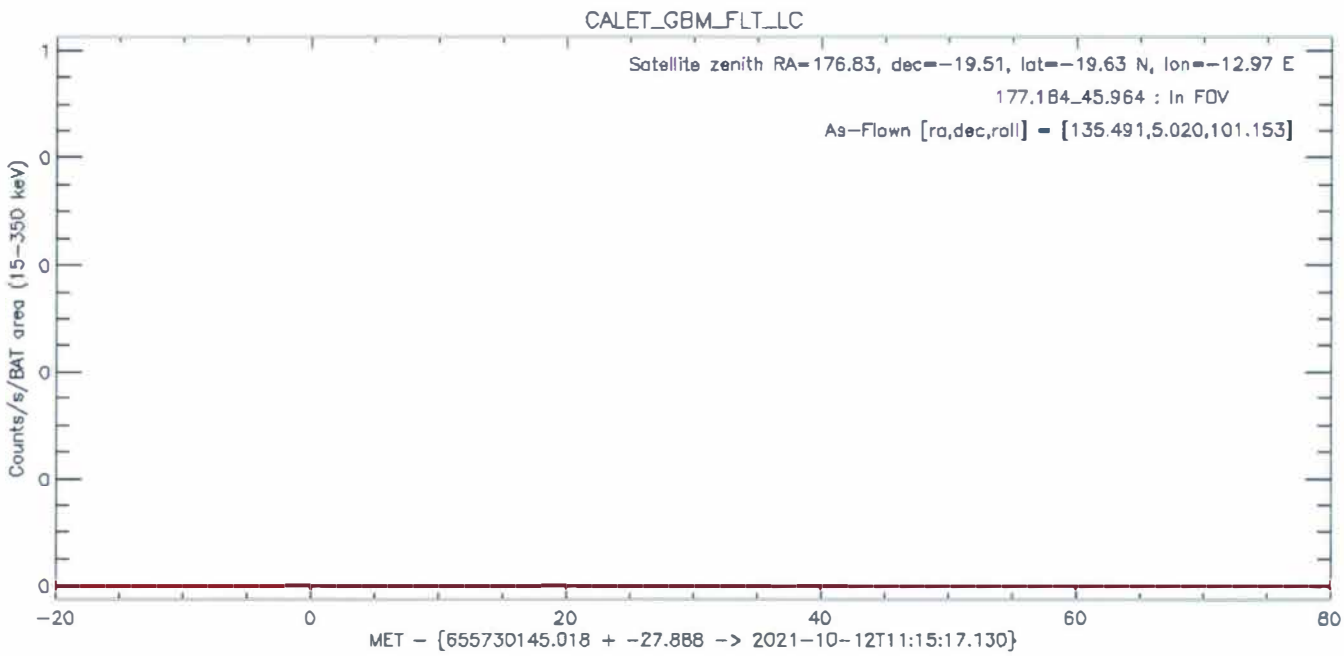
Subject: BAT lightcurve for trigger at 211012_1115
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/12/2021, 6:20 AM
To: vestrand@lanl.gov, dmopalmer@gmail.com, mkippen@lanl.gov, ipn@ssl.berkeley.edu, bat_team@bigbang.gsfc.nasa.gov, aaron.tohu@gmail.com, gbm-burst-advocate@lists.nasa.gov, palmer+automatic_lightcurve@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655730145.018 -s 177.184_45.964
Swift Zenith(RA,dec):          176.83, -19.51
Swift Location(lon,lat,alt):  -12.97 E, -19.63 N, 556 km
Time(MET + UTCF -> UT):   655730145.018 + -27.888 -> 2021-10-12T11:15:17.130
YYMMDD_SOD:                    211012_40517.130       DOY=285
Obs Sequence Number:           00076552004
Obs Target Name:               saa-cold-172-04
Obs Date and Times:            2021-10-12   11:08:34 - 11:22:32
Obs Pointing(ra,dec,roll):     135.491, 5.020, 101.15
177.184_45.964_imageloc (boresight_dist, angle): (55, -157)
177.184_45.964_exposure (cm^2 cos adjusted): 633
177.184_45.964_altitude: 48 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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—/tmp/swift/211012_1115.png



—Attachments

/tmp/swift/211012_1115.png	7.6 KB
/tmp/swift/211012_1115_bat64ms_ipn	87.0 KB

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Tue Oct 12 08:48:16
Date: Tue, 12 Oct 2021 11:48:12 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/CALET_GBM_FLT_LIGHTCURVE

TITLE: GCN/CALET NOTICE
NOTICE_DATE: Tue 12 Oct 21 15:48:12 UT
NOTICE_TYPE: CALET GBM Flight Lightcurve
POINT_RA: 147.97d {+09h 51m 52s} (J2000),
POINT_DEC: +29.41d {+29d 24' 54"} (J2000),
TRIGGER_NUM: 1318088831
TRIGGER_DATE: 19499 TJD; 285 DOY; 21/10/12
TRIGGER_TIME: 56815.41 SOD {15:46:55.41} UT
TRIGGER_DET: 0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE: 13.30 [sigma]
FOREGND_DUR: 4.00 [sec]
BACKGND_DUR1: 16.00 [sec]
ENERGY_BAND: 40-230 [keV]
SC_LON_LAT: 250.08,29.30 [deg]
LC_URL: http://cgbm.calet.jp/cgbm_trigger/flight//1318088831/index.html
COMMENTS: CALET-GBM Flight Lightcurve.
COMMENTS: The LC_URL file will not be created until ~15 min after the tri

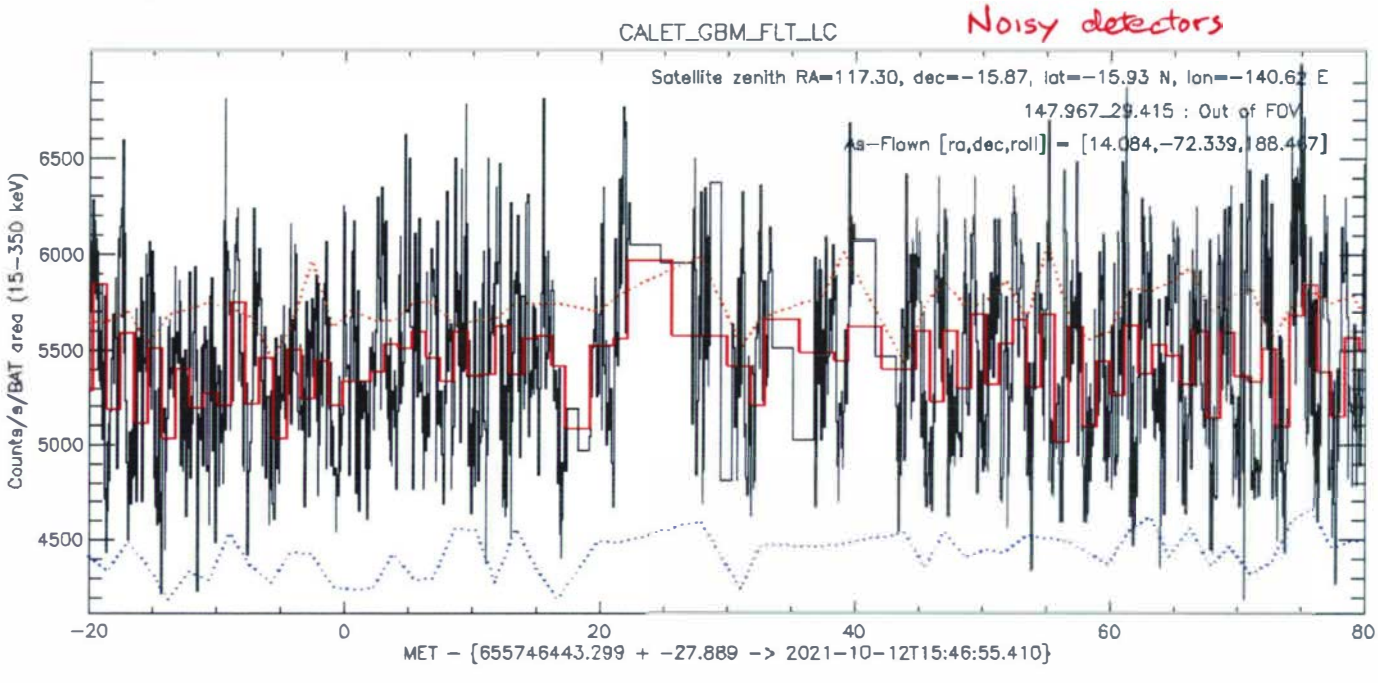
Subject: BAT lightcurve for trigger at 211012_1546
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/12/2021, 2:14 PM
To: mkippen@lanl.gov, palmer+automatic_lightcurve@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com, aaron.tohu@gmail.com, vestrand@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655746443.299 -s 147.967_29.415
Swift Zenith(RA,dec):          117.30, -15.87
Swift Location(lon,lat,alt):  -140.62 E, -15.93 N, 559 km
Time(MET + UTCF -> UT):    655746443.299 + -27.889 -> 2021-10-12T15:46:55.410
YYMMDD_SOD:                    211012_56815.410       DOY=285
Obs Sequence Number:           00048782202
Obs Target Name:               SMC J0056.3-7221
Obs Date and Times:            2021-10-12   15:45:41 - 15:47:08
Obs Pointing(ra,dec,roll):     14.084, -72.339, 188.47
147.967_29.415_imageloc (boresight_dist, angle): (131, -154)
147.967_29.415_exposure (cm^2 cos adjusted): 0
147.967_29.415_altitude: 59 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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—/tmp/swift/211012_1546.png



—Attachments

/tmp/swift/211012_1546.png	20.9 KB
/tmp/swift/211012_1546_bat64ms_ipn	82.9 KB

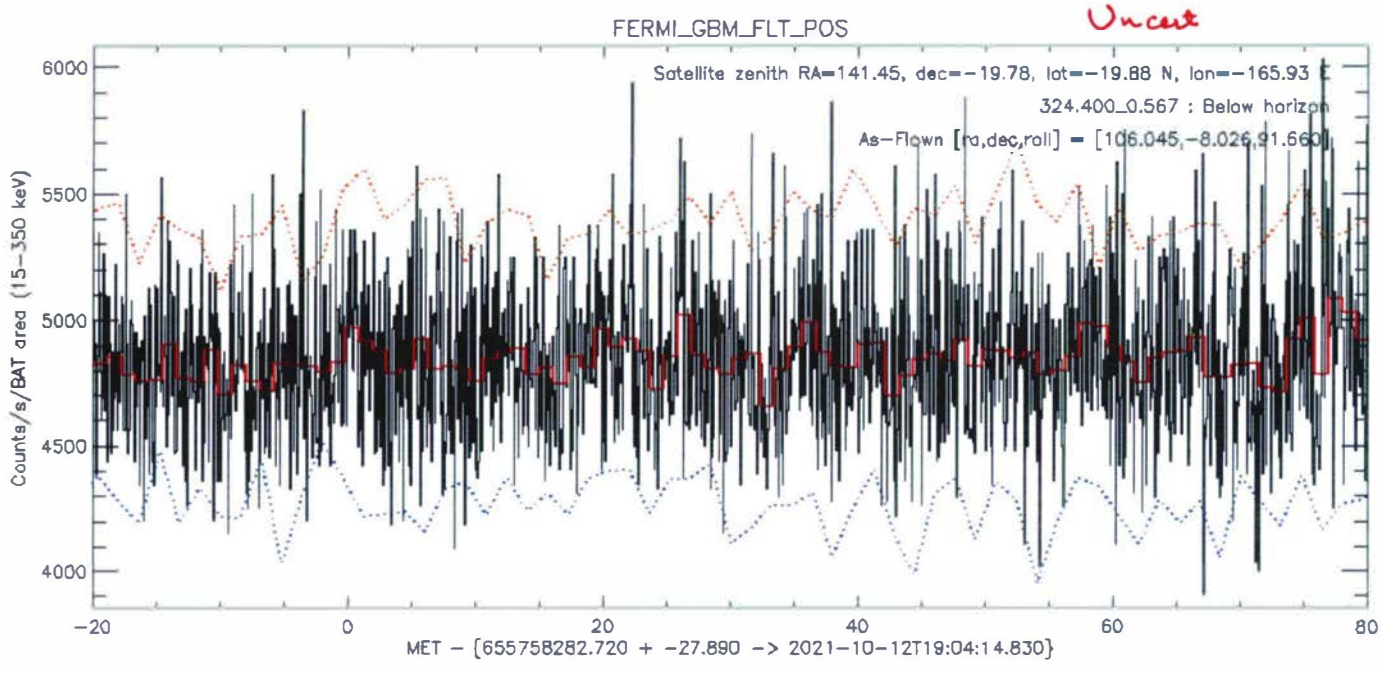
Subject: BAT lightcurve for trigger at 211012_1904
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/12/2021, 8:05 PM
To: bat_team@bigbang.gsfc.nasa.gov, mkippen@lanl.gov, ipn@ssl.berkeley.edu, vestrand@lanl.gov, aaron.tohu@gmail.com, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com, palmer+automatic_lightcurve@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655758282.720 -s 324.400_0.567
Swift Zenith(RA,dec):          141.45, -19.78
Swift Location(lon,lat,alt):  -165.93 E, -19.88 N, 559 km
Time(MET + UTCF -> UT):    655758282.720 + -27.890 -> 2021-10-12T19:04:14.830
YYMMDD_SOD:                    211012_68654.830       DOY=285
Obs Sequence Number:           03103179008
Obs Target Name:               OGP_4067
Obs Date and Times:            2021-10-12   19:00:34 - 19:12:32
Obs Pointing(ra,dec,roll):     106.045, -8.026, 91.66
324.400_0.567_imageloc (boresight_dist, angle): (141, 79)
324.400_0.567_exposure (cm^2 cos adjusted): 0
324.400_0.567_altitude: -47 (down)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

—/tmp/swift/211012_1904.png



—Attachments:

/tmp/swift/211012_1904.png	20.6 KB
/tmp/swift/211012_1904_bat64ms_ipn	87.0 KB

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Tue Oct 12 13:31:09
Date: Tue, 12 Oct 2021 16:31:05 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/CALET_GBM_FLT_LIGHTCURVE

TITLE: GCN/CALET NOTICE
NOTICE_DATE: Tue 12 Oct 21 20:31:05 UT
NOTICE_TYPE: CALET GBM Flight Lightcurve
POINT_RA: 165.13d {+11h 00m 30s} (J2000),
POINT_DEC: +41.64d {+41d 38' 17"} (J2000),
TRIGGER_NUM: 1318105853
TRIGGER_DATE: 19499 TJD; 285 DOY; 21/10/12
TRIGGER_TIME: 73837.88 SOD {20:30:37.88} UT
TRIGGER_DET: 0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE: 13.19 [sigma]
FOREGND_DUR: 4.00 [sec]
BACKGND_DUR1: 16.00 [sec]
ENERGY_BAND: 40-230 [keV]
SC_LON_LAT: 196.11,41.52 [deg]
LC_URL: http://cgbm.calet.jp/cgbm_trigger/flight//1318105853/index.html
COMMENTS: CALET-GBM Flight Lightcurve.
COMMENTS: The LC_URL file will not be created until ~15 min after the tri

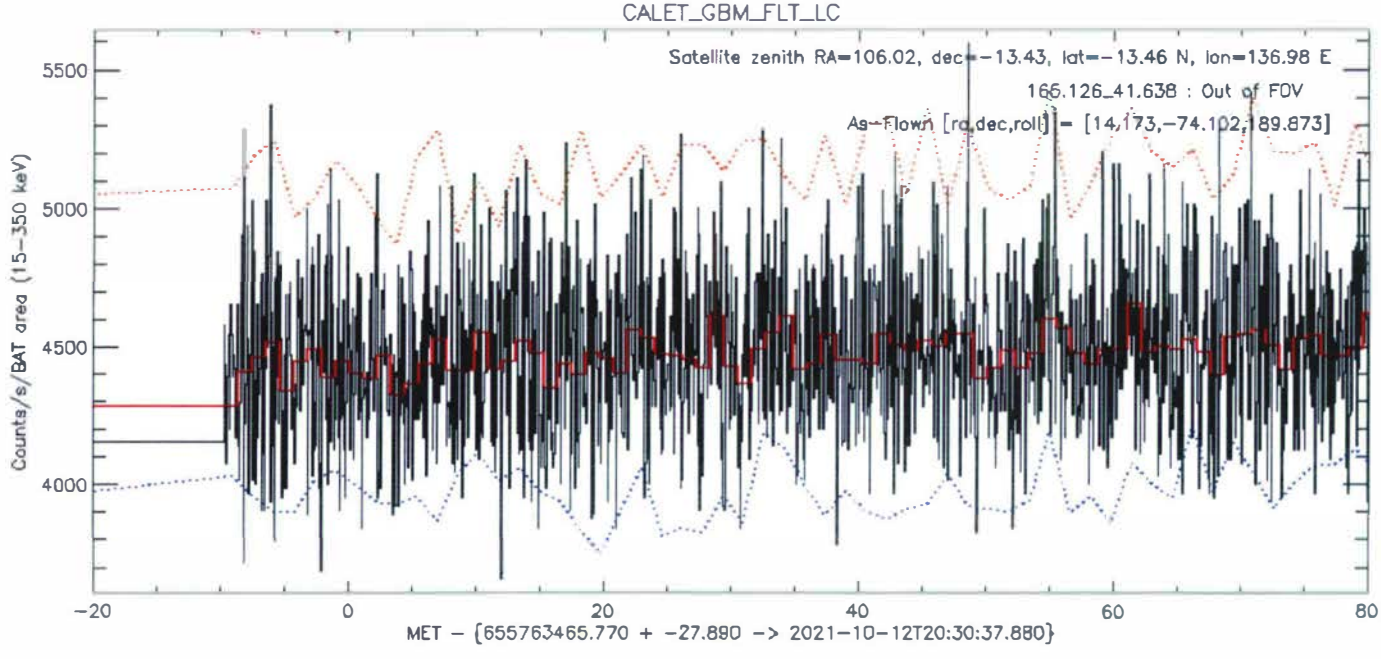
Subject: BAT lightcurve for trigger at 211012_2030
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/12/2021, 10:12 PM
To: mkippen@lanl.gov, vestrand@lanl.gov, dmopalmer@gmail.com, aaron.tohu@gmail.com, palmer+automatic_lightcurve@lanl.gov, gbm-burst-advocate@lists.nasa.gov, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655763465.770 -s 165.126_41.638
Swift Zenith(RA,dec):          106.02, -13.43
Swift Location(lon,lat,alt):  136.98 E, -13.46 N, 559 km
Time(MET + UTCF -> UT):    655763465.770 + -27.890 -> 2021-10-12T20:30:37.880
YYMMDD_SOD:                    211012_73837.880       DOY=285
Obs Sequence Number:           00048700201
Obs Target Name:               SMC J0056.7-7406
Obs Date and Times:            2021-10-12   20:29:00 - 20:30:26
Obs Pointing(ra,dec,roll):     14.173, -74.102, 189.87
165.126_41.638_imageloc (boresight_dist, angle): (145, -139)
165.126_41.638_exposure (cm^2 cos adjusted): 0
165.126_41.638_altitude: 36 (up)
```

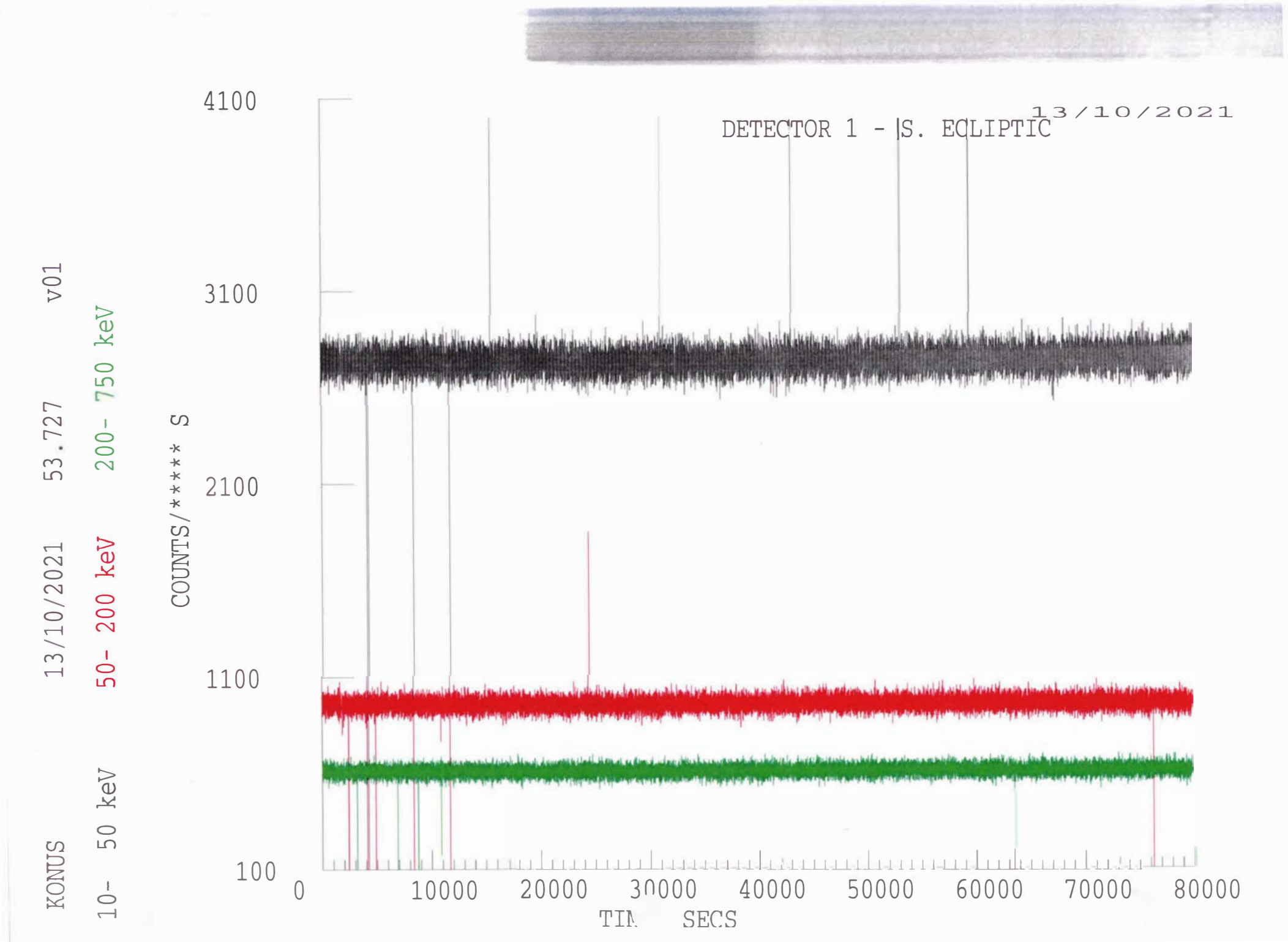
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

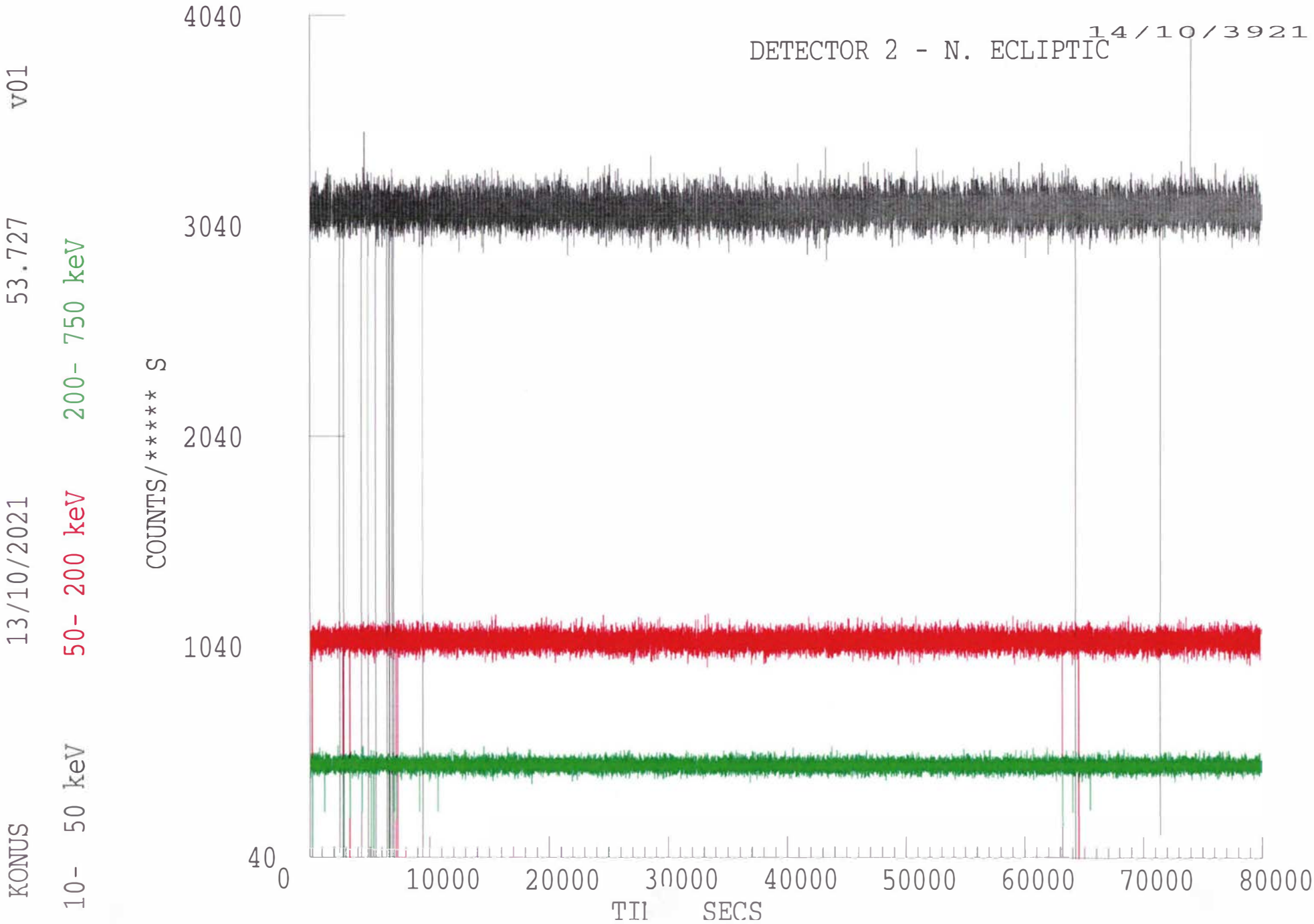
—/tmp/swift/211012_2030.png—

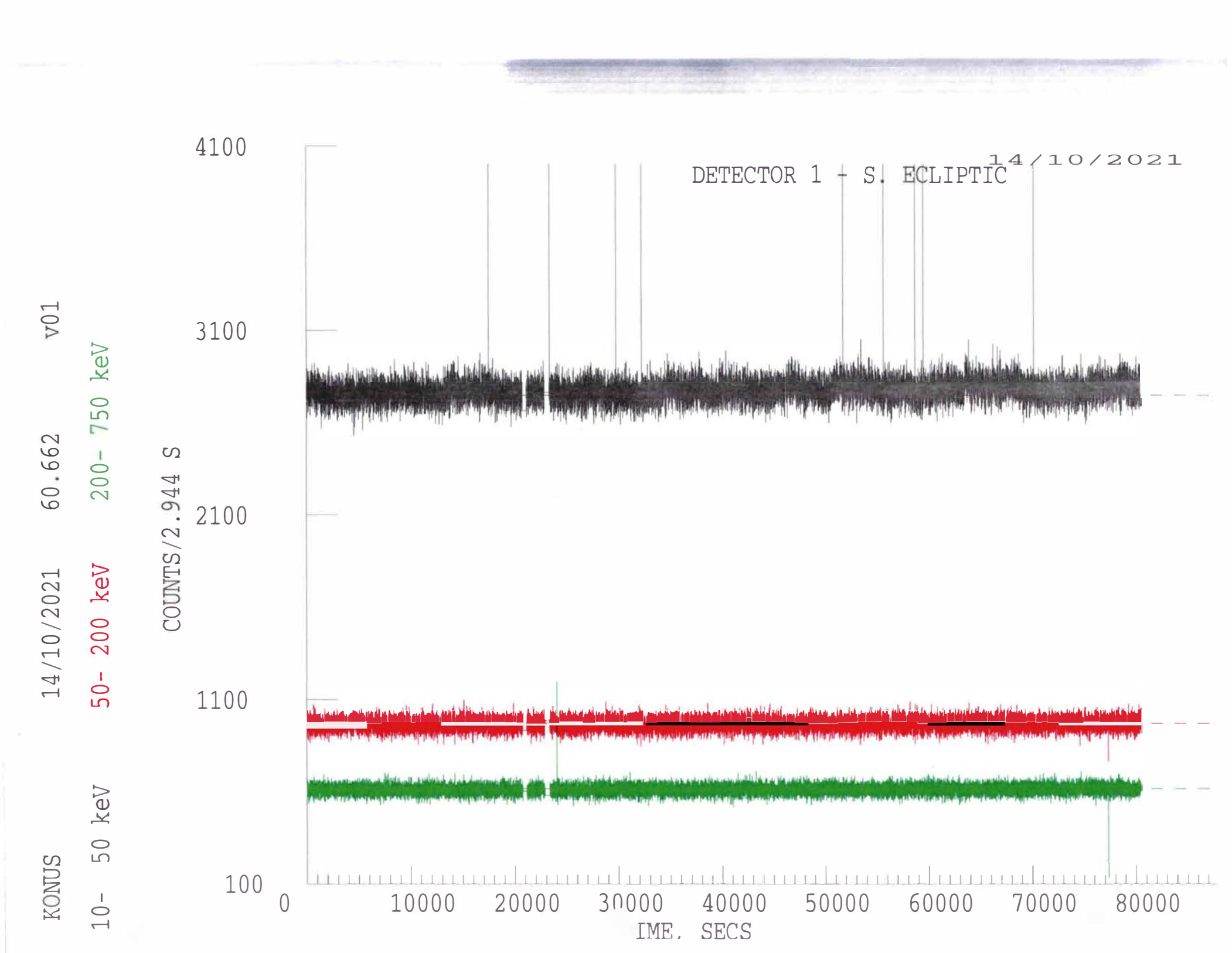


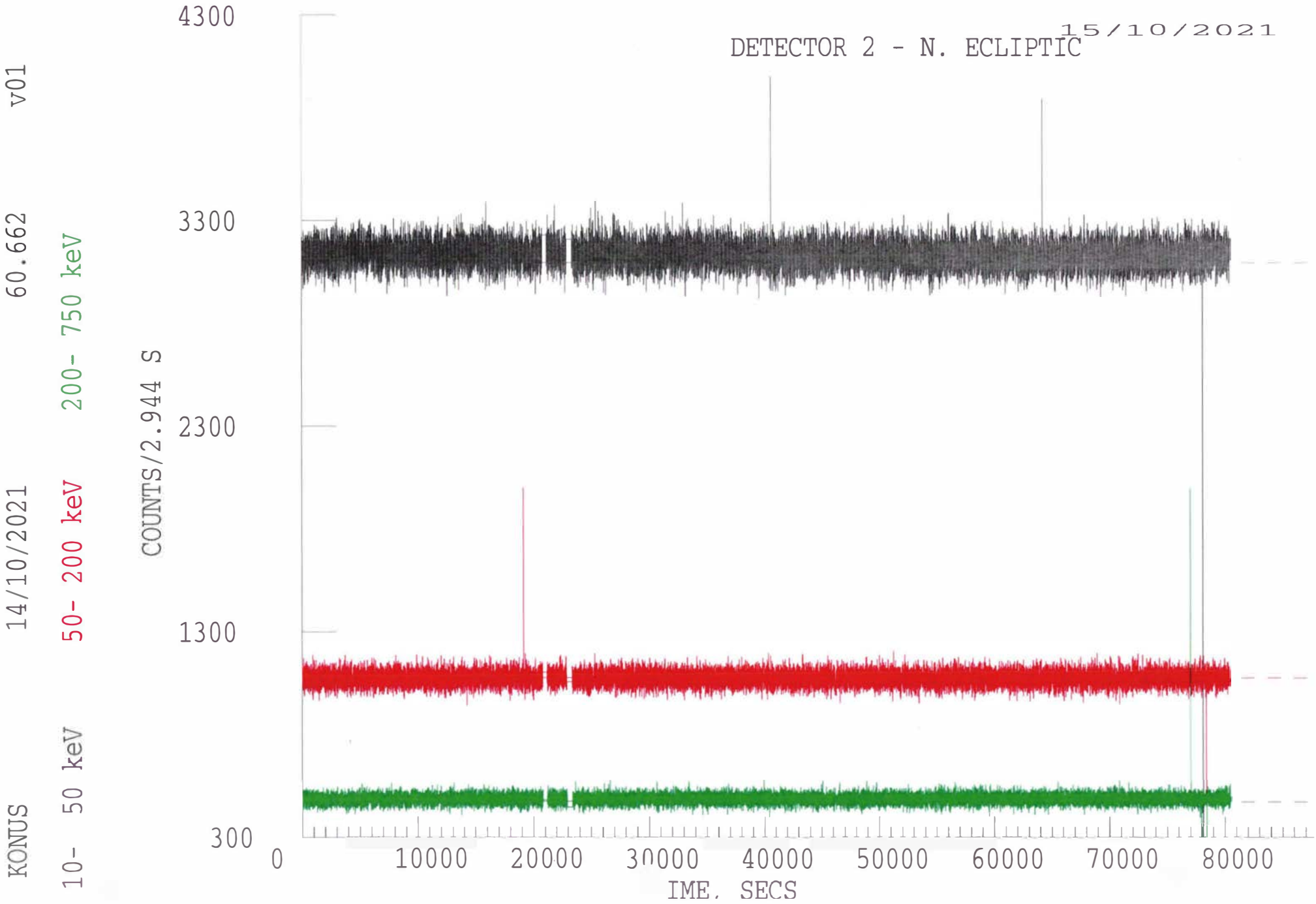
—Attachments:—

/tmp/swift/211012_2030_bat64ms_ipn	72.5 KB
/tmp/swift/211012_2030.png	18.5 KB


DETECTOR 1 - S. ECLIPTIC
13/10/2021
KONUS 13/10/2021 53.727 v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/***** S
4100
3100
2100
1100
100
0
10000
20000
30000
40000
50000
60000
70000
80000
TIME SECS


KONUS
13/10/2021
53.727
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
14/10/3921
COUNTS/***** S
4040
3040
2040
1040
40
0
10000
20000
30000
40000
50000
60000
70000
80000
TII SECS


DETECTOR 1 - S. ECLIPTIC
14/10/2021
KONUS
14/10/2021
60.662
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4100
3100
2100
1100
100
0
10000
20000
30000
40000
50000
60000
70000
80000
IME, SECS


KONUS
14/10/2021
60.662
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
15/10/2021
COUNTS/2.944 S
4300
3300
2300
1300
300
0
10000
20000
30000
40000
50000
60000
70000
80000
IME. SECS

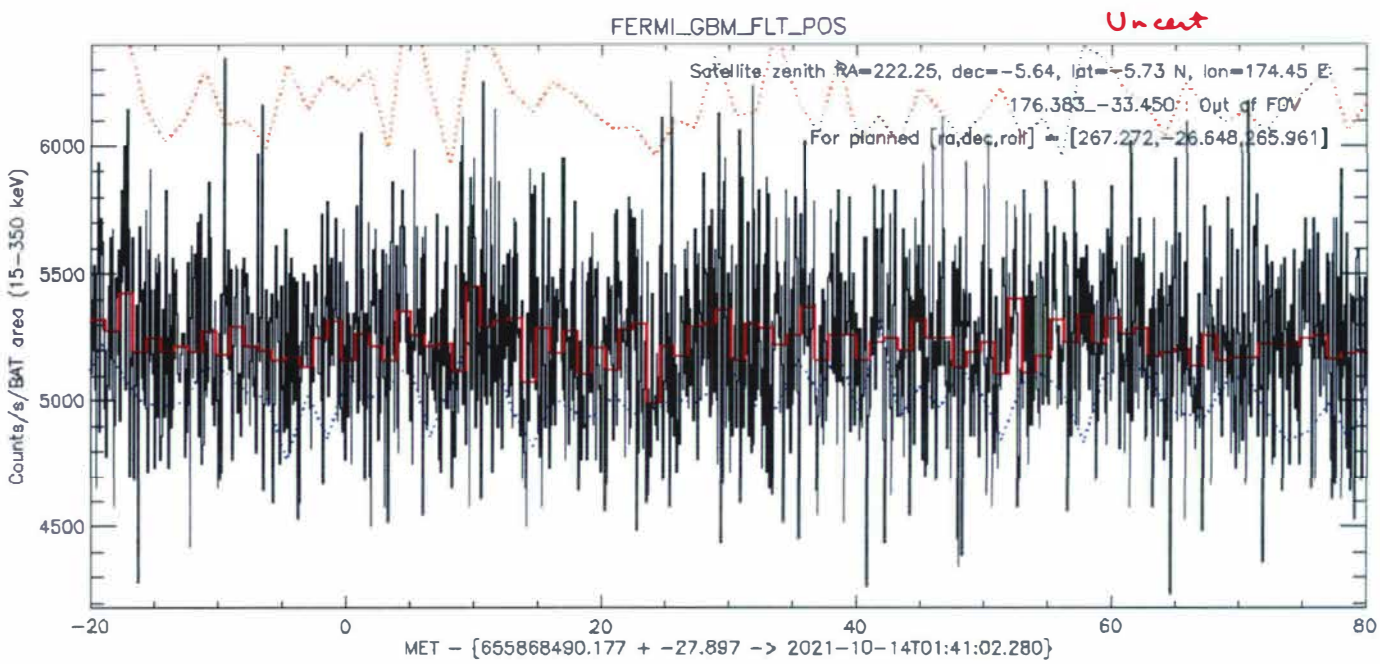
Subject: BAT lightcurve for trigger at 211014_0141
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/13/2021, 9:03 PM
To: dmopalmer@gmail.com, vestrand@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, mkippen@lanl.gov, ipn@ssl.berkeley.edu, palmer+automatic_lightcurve@lanl.gov, gbm-burst-advocate@lists.nasa.gov, aaron.tohu@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655868490.177 -s 176.383_-33.450
Swift Zenith(RA,dec):          222.25, -5.64
Swift Location(lon,lat,alt):   174.45 E, -5.73 N, 547 km
Time(MET + UTCF -> UT):    655868490.177 + -27.897 -> 2021-10-14T01:41:02.280
YYMMDD_SOD:                    211014_06062.280        DOY=287
Obs Sequence Number:           00031115025
Obs Target Name:               AX J1749.1-2639 (planned)
Obs Date and Times:            2021-10-14   01:38:32 - 01:55:32
Obs Pointing(ra,dec,roll):     267.272, -26.648, 265.96
176.383_-33.450_imageloc (boresight_dist, angle): (76, -117)
176.383_-33.450_exposure (cm^2 cos adjusted): 0
176.383_-33.450_altitude: 62 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

—/tmp/swift/211014_0141.png



—Attachments:

/tmp/swift/211014_0141.png	18.5 KB
/tmp/swift/211014_0141_bat64ms_ipn	87.1 KB

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Thu Oct 14 13:33:38
Date: Thu, 14 Oct 2021 16:33:34 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/CALET_GBM_FLT_LIGHTCURVE

TITLE: GCN/CALET NOTICE
NOTICE_DATE: Thu 14 Oct 21 20:33:33 UT
NOTICE_TYPE: CALET GBM Flight Lightcurve
POINT_RA: 159.76d {+10h 39m 03s} (J2000),
POINT_DEC: +43.76d {+43d 45' 40"} (J2000),
TRIGGER_NUM: 1318278738
TRIGGER_DATE: 19501 TJD; 287 DOY; 21/10/14
TRIGGER_TIME: 73926.68 SOD {20:32:06.68} UT
TRIGGER_DET: 0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE: 11.80 [sigma]
FOREGND_DUR: 4.00 [sec]
BACKGND_DUR1: 16.00 [sec]
ENERGY_BAND: 40-230 [keV]
SC_LON_LAT: 188.39,43.65 [deg]
LC_URL: http://cgbm.calet.jp/cgbm_trigger/flight//1318278738/index.html
COMMENTS: CALET-GBM Flight Lightcurve.
COMMENTS: The LC_URL file will not be created until ~15 min after the tri

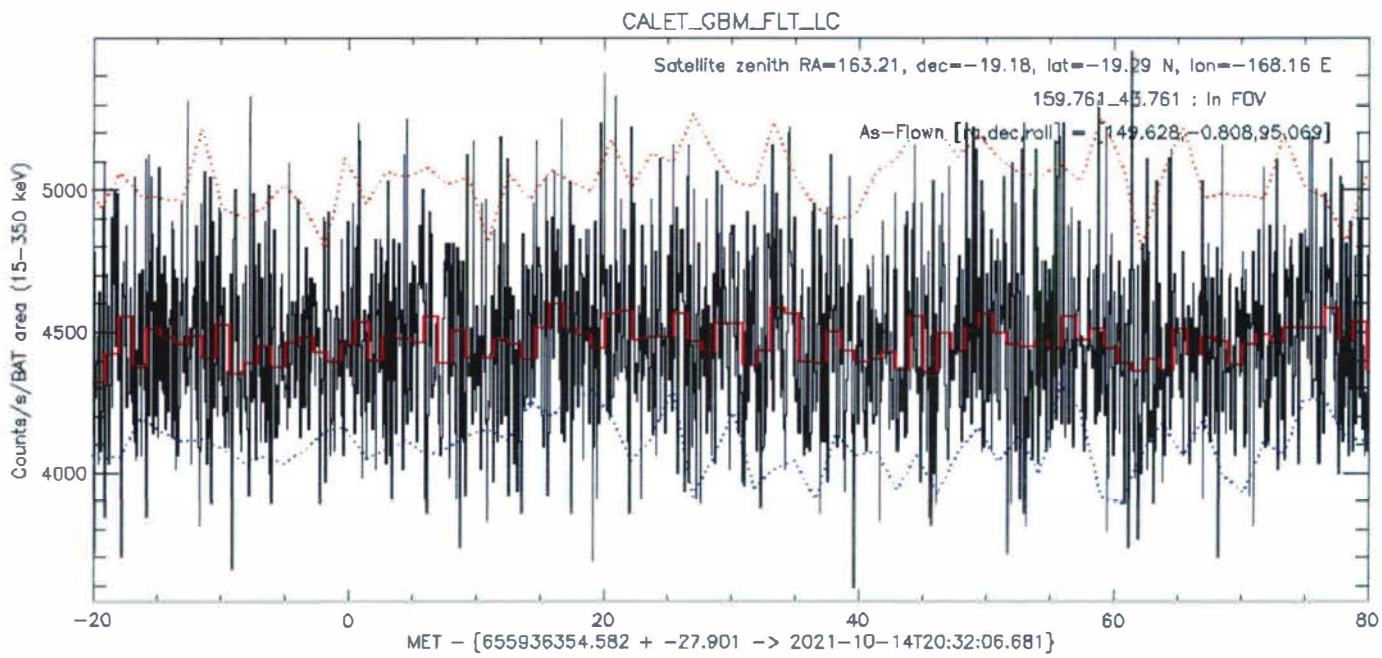
Subject: BAT lightcurve for trigger at 211014_2032
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/14/2021, 6:21 PM
To: mkippen@lanl.gov, dmopalmer@gmail.com, palmer+automatic_lightcurve@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, aaron.tohu@gmail.com, gbm-burst-advocate@lists.nasa.gov, vestrand@lanl.gov, ipn@ssl.berkeley.edu

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 655936354.582 -s 159.761_43.761
Swift Zenith(RA,dec):          163.21, -19.18
Swift Location(lon,lat,alt):  -168.16 E, -19.29 N, 559 km
Time(MET + UTCF -> UT):    655936354.582 + -27.901 -> 2021-10-14T20:32:06.681
YYMMDD_SOD:                    211014_73926.681       DOY=287
Obs Sequence Number:           00085707012
Obs Target Name:               Swift J0958.5-0049
Obs Date and Times:            2021-10-14   20:20:34 - 20:46:31
Obs Pointing(ra,dec,roll):     149.628, -0.808, 95.07
159.761_43.761_imageloc (boresight_dist, angle): (45, -175)
159.761_43.761_exposure (cm² cos adjusted): 1922
159.761_43.761_altitude: 50 (up)
```

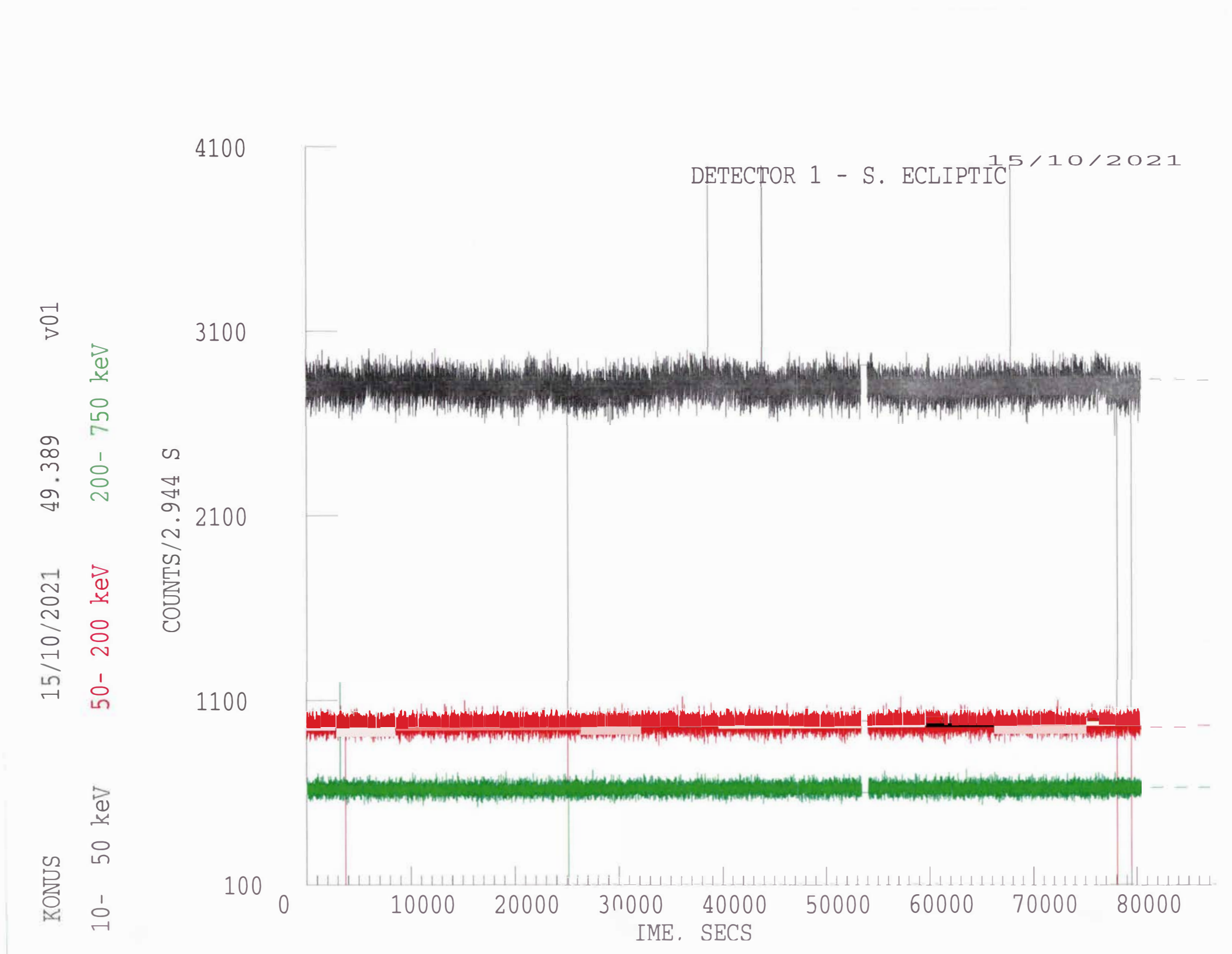
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

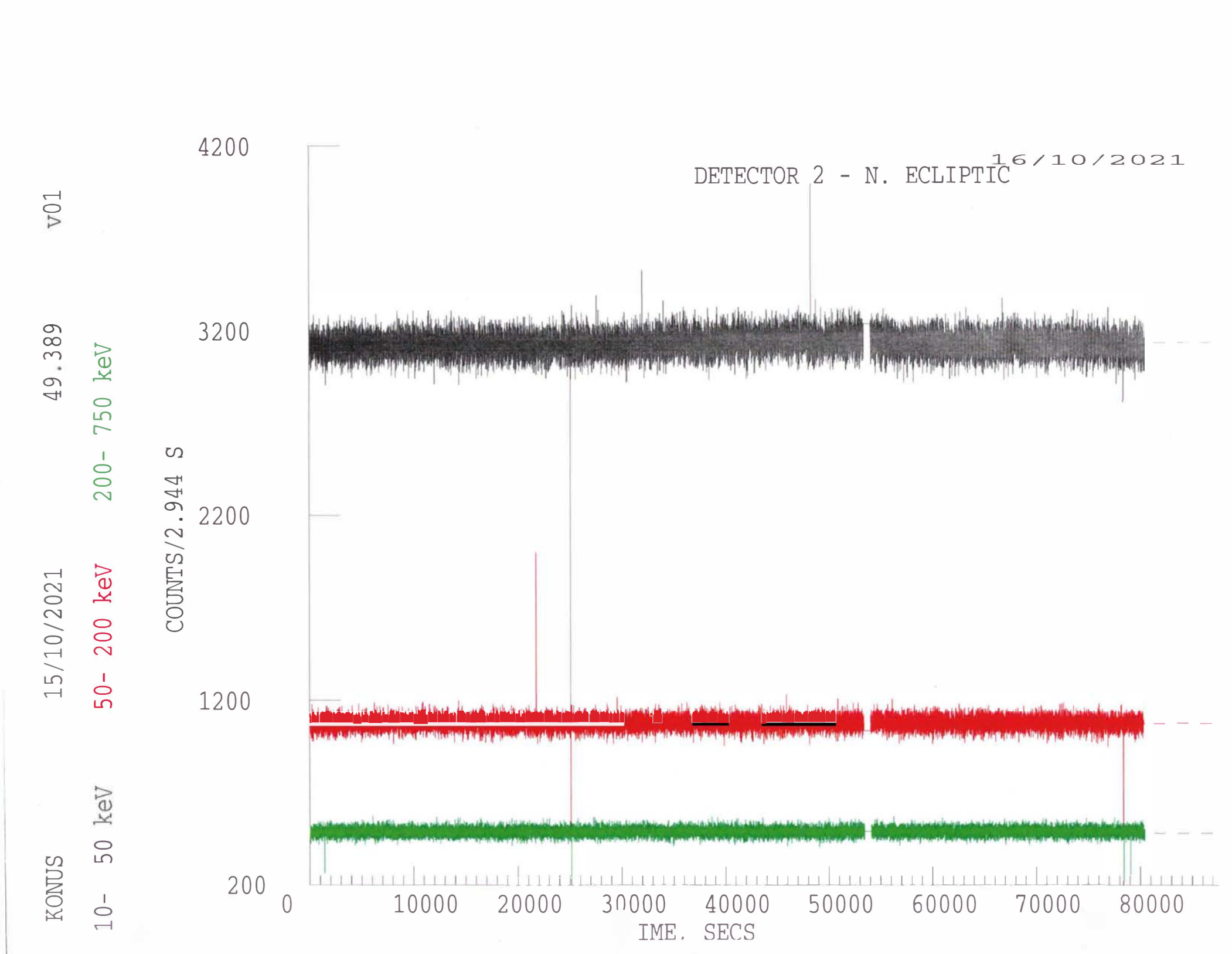
/tmp/swift/211014_2032.png



Attachments:

/tmp/swift/211014_2032.png	19.9 KB
/tmp/swift/211014_2032_bat64ms_ipn	87.1 KB


KONUS
15/10/2021
49.389
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 1 - S. ECLIPTIC
15/10/2021
COUNTS/2.944 S
4100
3100
2100
1100
100
0
10000
20000
30000
40000
50000
60000
70000
80000
IME. SECS


KONUS
15/10/2021
49.389
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
16/10/2021
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
IME. SECS

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Fri Oct 15 12:47:10
Date: Fri, 15 Oct 2021 15:47:05 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/CALET_GBM_FLT_LIGHTCURVE

TITLE: GCN/CALET NOTICE
NOTICE_DATE: Fri 15 Oct 21 19:47:05 UT
NOTICE_TYPE: CALET GBM Flight Lightcurve
POINT_RA: 154.52d {+10h 18m 06s} (J2000),
POINT_DEC: +43.56d {+43d 33' 50"} (J2000),
TRIGGER_NUM: 1318362362
TRIGGER_DATE: 19502 TJD; 288 DOY; 21/10/15
TRIGGER_TIME: 71152.10 SOD {19:45:52.10} UT
TRIGGER_DET: 0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE: 11.09 [sigma]
FOREGND_DUR: 4.00 [sec]
BACKGND_DUR1: 16.00 [sec]
ENERGY_BAND: 40-230 [keV]
SC_LON_LAT: 193.78,43.45 [deg]
LC_URL: http://cgbm.calet.jp/cgbm_trigger/flight//1318362362/index.html
COMMENTS: CALET-GBM Flight Lightcurve.
COMMENTS: The LC_URL file will not be created until ~15 min after the tri

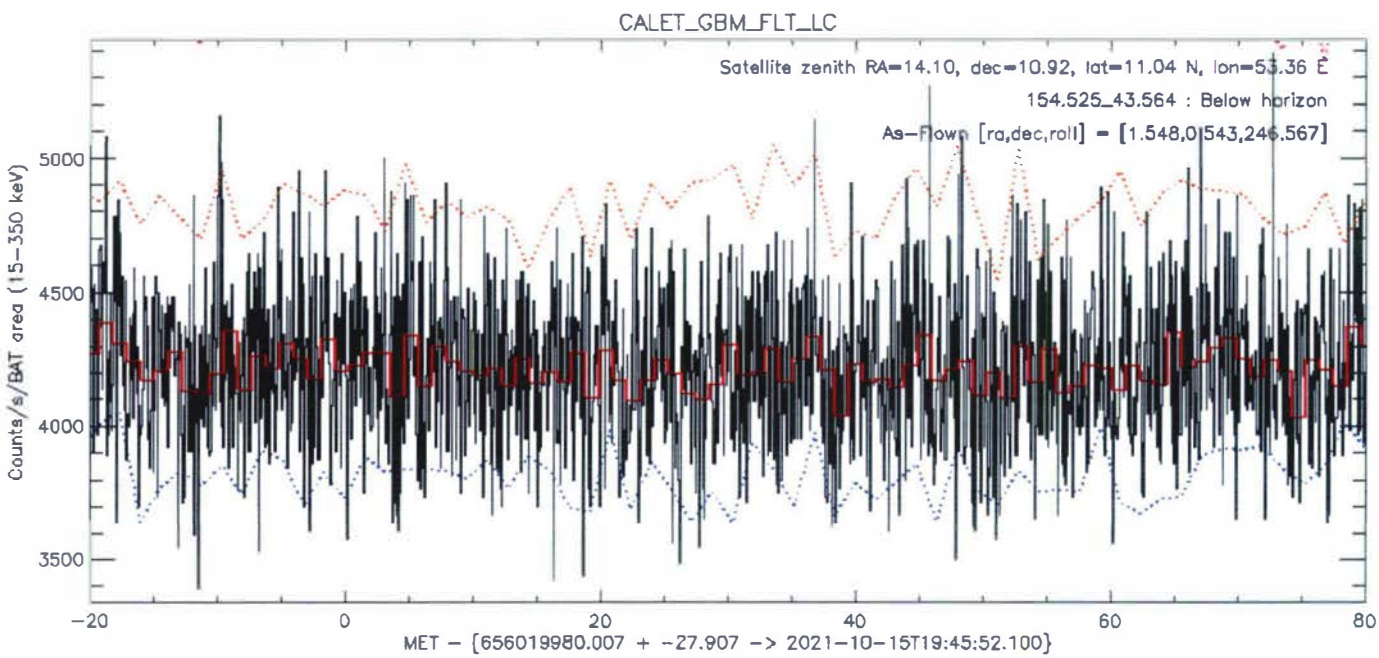
Subject: BAT lightcurve for trigger at 211015_1945
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/15/2021, 4:15 PM
To: palmer+automatic_lightcurve@lanl.gov, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu, aaron.tohu@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656019980.007 -s 154.525_43.564
Swift Zenith(RA,dec):          14.10, 10.92
Swift Location(lon,lat,alt):   53.36 E, 11.04 N, 545 km
Time(MET + UTCF -> UT):    656019980.007 + -27.907 -> 2021-10-15T19:45:52.100
YYMMDD_SOD:                    211015_71152.100        DOY=288
Obs Sequence Number:           03103462004
Obs Target Name:               OGP_3072
Obs Date and Times:            2021-10-15   19:41:34 - 19:54:29
Obs Pointing(ra,dec,roll):     1.548, 0.543, 246.57
154.525_43.564_imageloc (boresight_dist, angle): (130, 49)
154.525_43.564_exposure (cm^2 cos adjusted): 0
154.525_43.564_altitude: -2 (down)
```

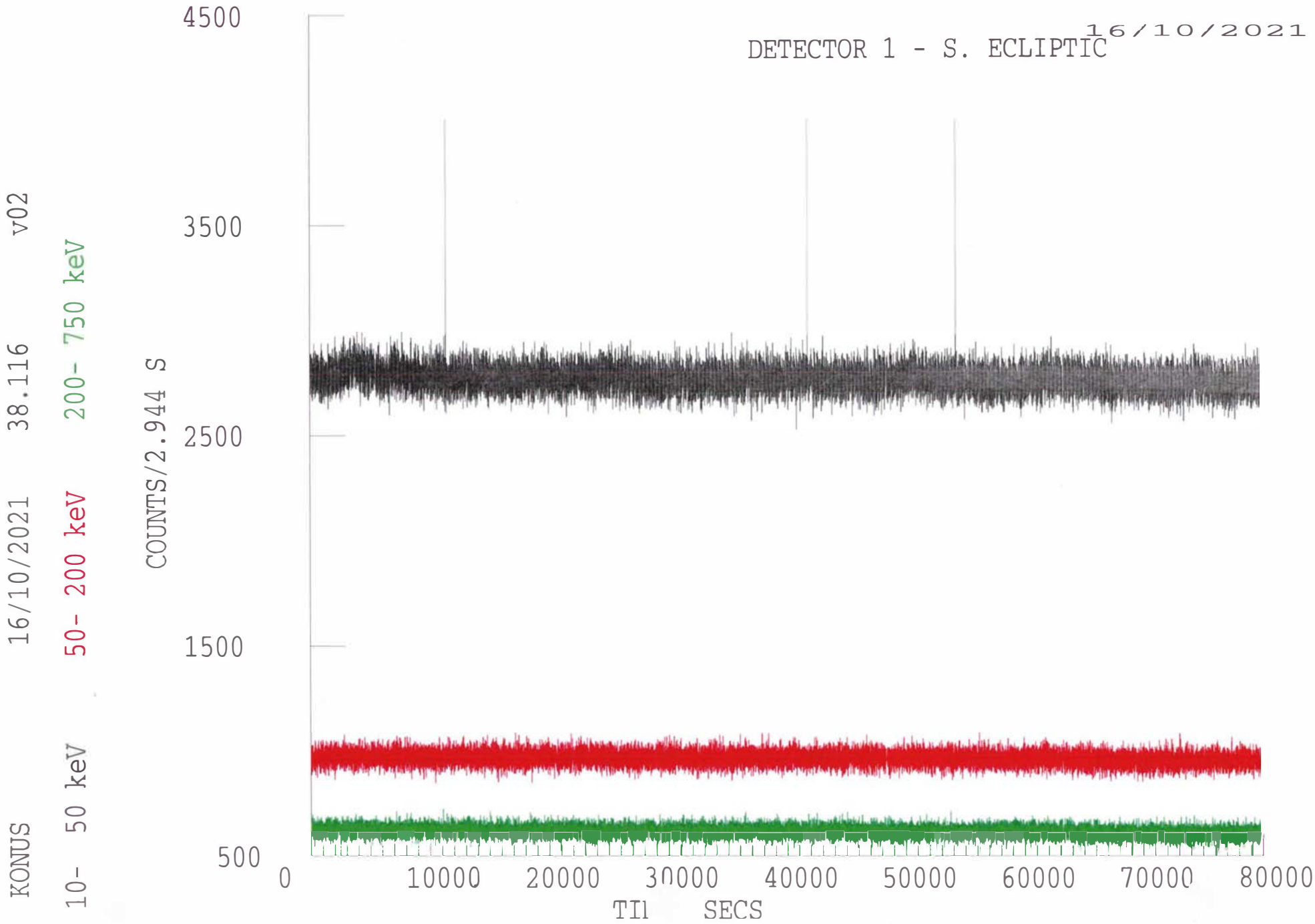
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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—/tmp/swift/211015_1945.png



—Attachments:

/tmp/swift/211015_1945.png	19.2 KB
/tmp/swift/211015_1945_bat64ms_ipn	87.0 KB


KONUS
16/10/2021
38.116
v02
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 1 - S. ECLIPTIC
16/10/2021
COUNTS/2.944 S
4500
3500
2500
1500
500
0
10000
20000
30000
40000
50000
60000
70000
80000
TIME SECS

DETECTOR 2 - N. ECLIPTIC
18/10/2021
KONUS
16/10/2021
38.116
v02
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
TI SECS

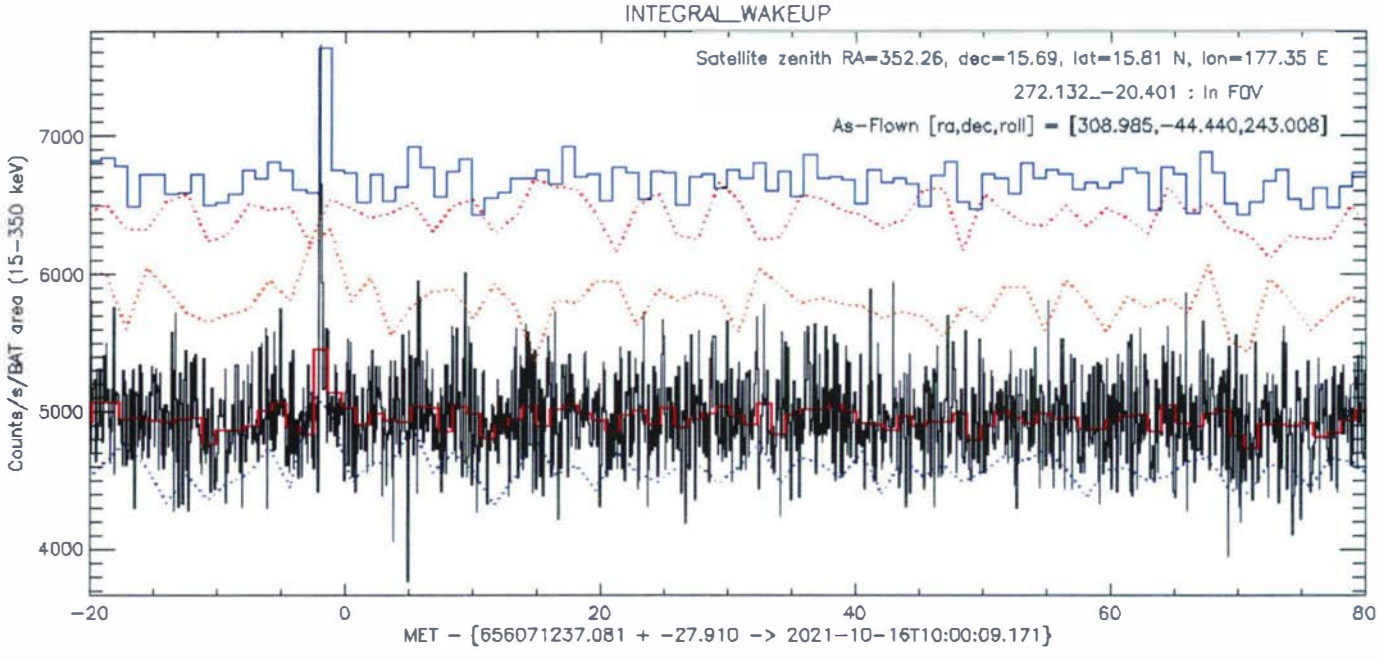
Subject: BAT lightcurve for trigger at 211016_1000
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/16/2021, 5:19 AM
To: mkippen@lanl.gov, aaron.tohu@gmail.com, ipn@ssl.berkeley.edu, vestrand@lanl.gov, palmer+automatic_lightcurve@lanl.gov, gbm-burst-advocate@lists.nasa.gov, bat_team@bigbang.gsfc.nasa.gov, dmopalmer@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656071237.081 -s 272.132_-20.401
Swift Zenith(RA,dec):          352.26, 15.69
Swift Location(lon,lat,alt):  177.35 E, 15.81 N, 542 km
Time(MET + UTCF -> UT):    656071237.081 + -27.910 -> 2021-10-16T10:00:09.171
YYMMDD_SOD:                    211016_36009.171       DOY=289
Obs Sequence Number:           01071993026
Obs Target Name:               GRB 210905A
Oos Date and Times:            2021-10-16   09:35:34 - 10:05:29
Obs Pointing(ra,dec,roll):     308.985, -44.440, 243.01
272.132_-20.401_imageloc (boresight_dist, angle): (39, -37)
272.132_-20.401_exposure (cm^2 cos adjusted): 2240
272.132_-20.401_altitude: 26 (up)
```

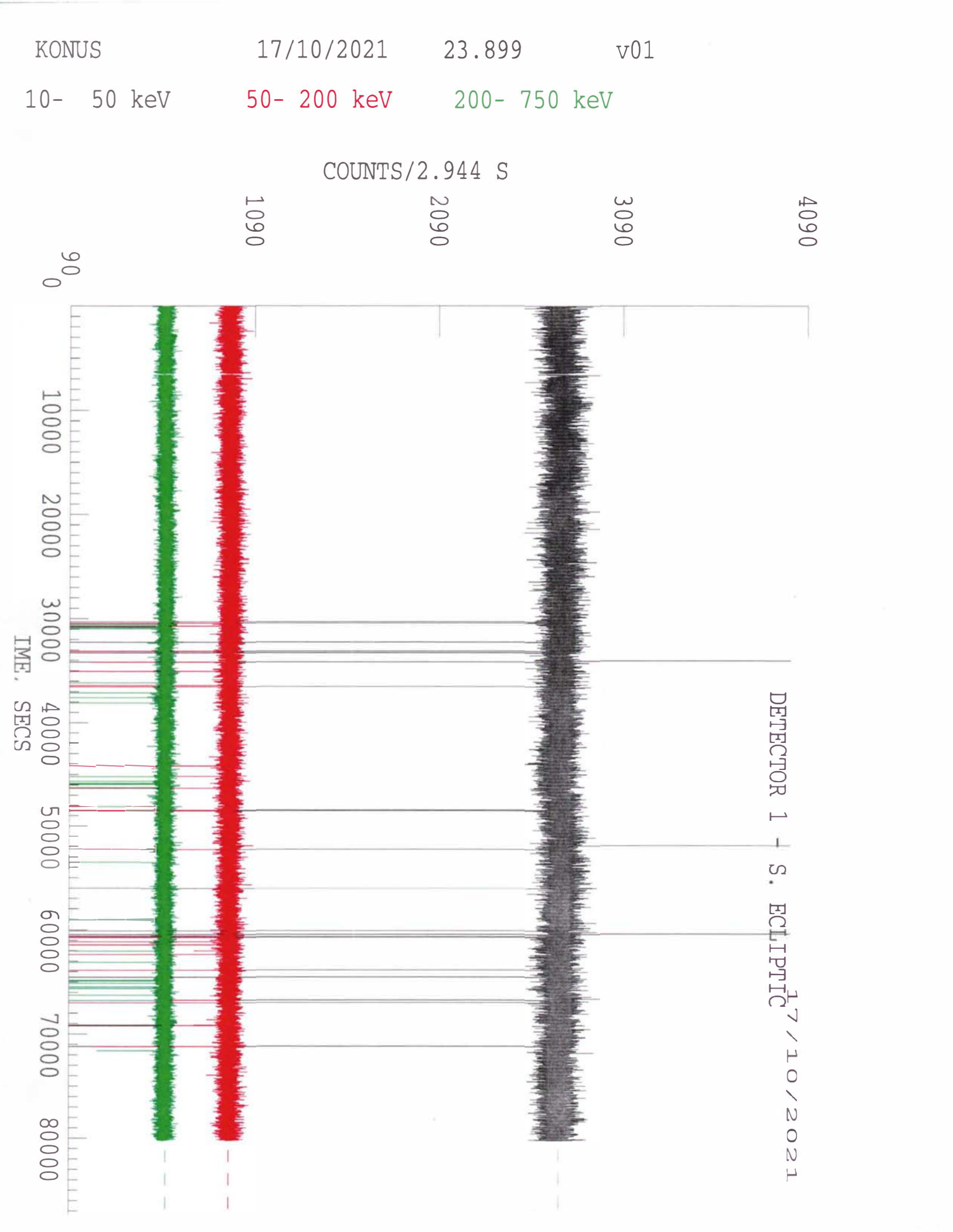
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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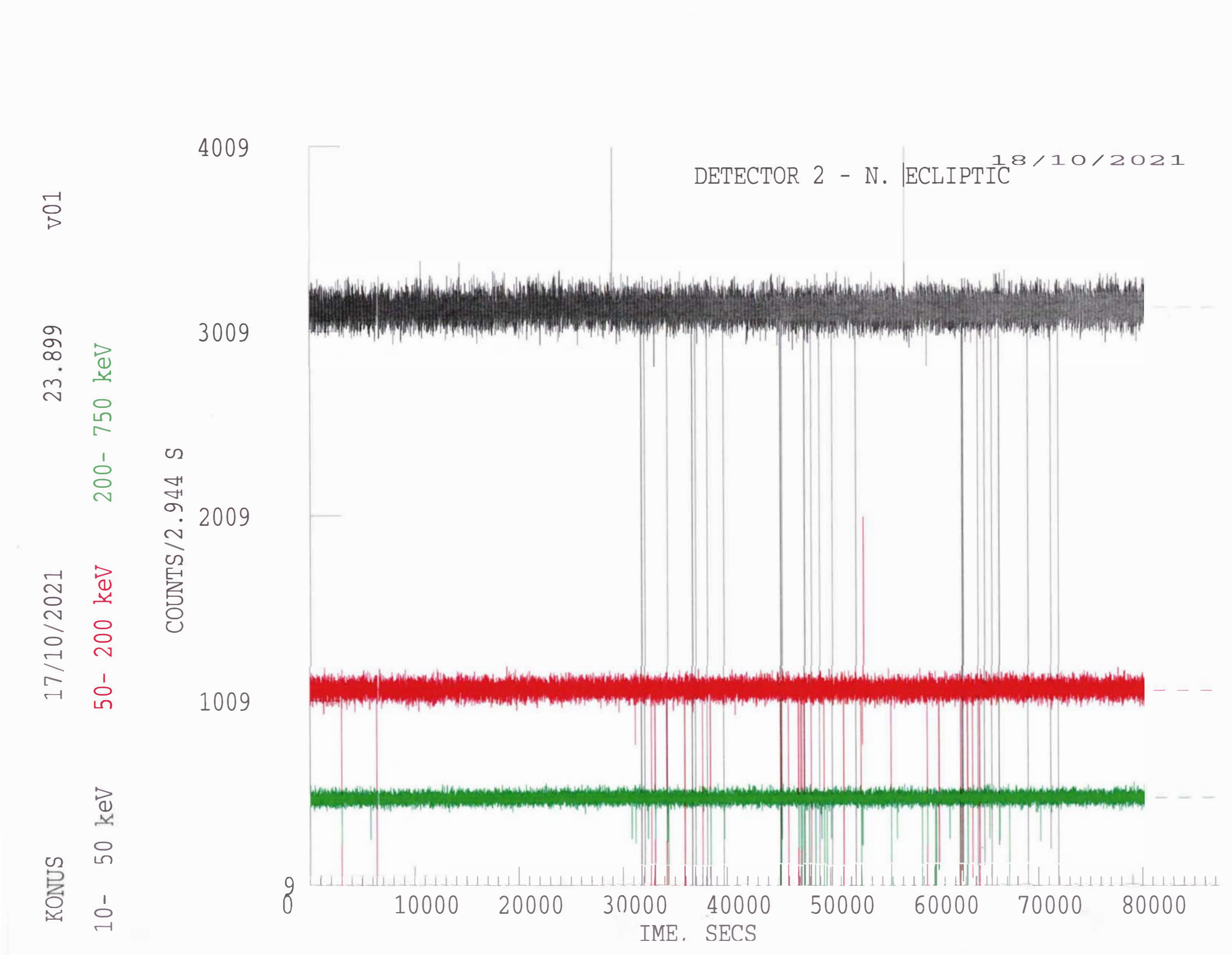
—/tmp/swift/211016_1000.png



—Attachments:

/tmp/swift/211016_1000_bat64ms_ipn	87.1 KB
/tmp/swift/211016_1000.png	19.5 KB


KONUS 17/10/2021 23.899 v01
10- 50 keV 50- 200 keV 200- 750 keV
COUNTS/2.944 S
90 0
1090
2090
3090
4090
10000
20000
30000
40000
50000
60000
70000
80000
TIME, SECS
DETECTOR 1 - S. ECLIPTIC 17/10/2021


KONUS
10- 50 keV
50- 200 keV
200- 750 keV
17/10/2021
23.899
v01
DETECTOR 2 - N. ECLIPTIC
18/10/2021
COUNTS/2.944 S
4009
3009
2009
1009
9
0
10000
20000
30000
40000
50000
60000
70000
80000
IME. SECS

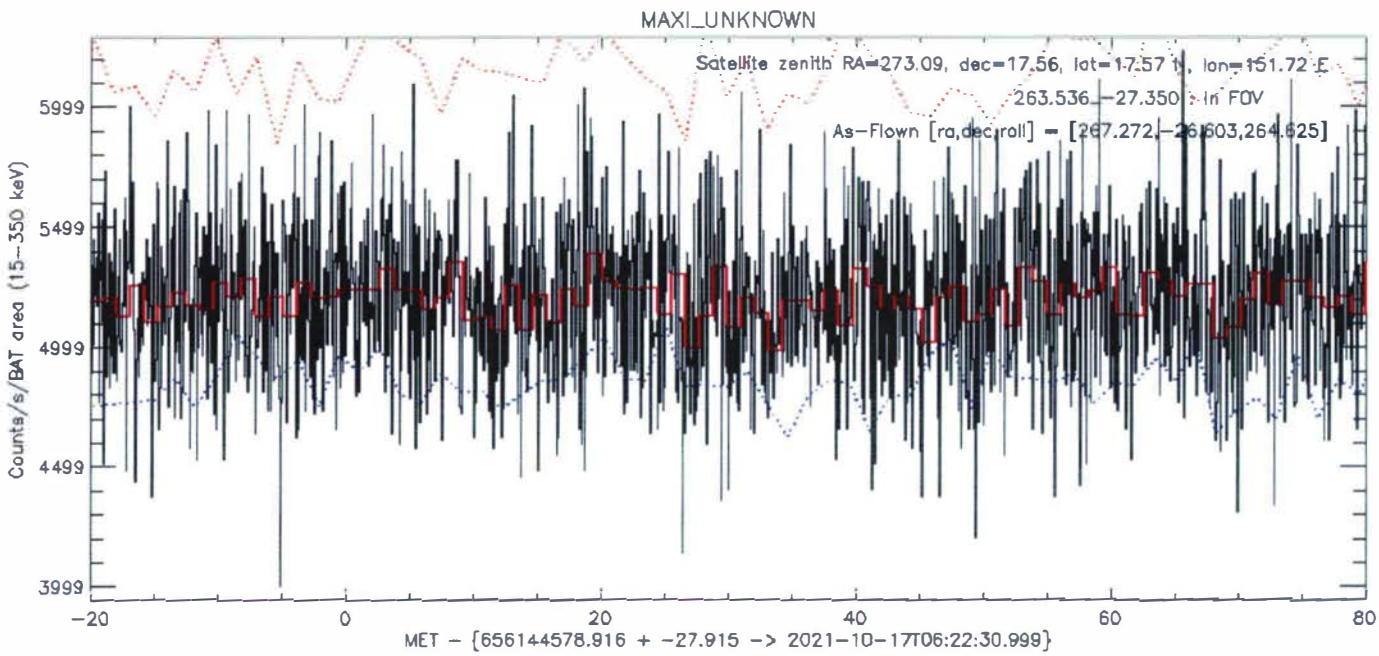
Subject: BAT lightcurve for trigger at 211017_0622
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/17/2021, 6:46 PM
To: palmer+automatic_lightcurve@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com, aaron.tohu@gmail.com, vestrand@lanl.gov, ipn@ssl.berkeley.edu

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-17T06:22:31 -s 263.536_-27.350
Swift Zenith(RA,dec):          273.09, 17.56
Swift Location(lon,lat,alt):   151.72 E, 17.57 N, 542 km
Time(MET + UTCF -> UT):    656144578.916 + -27.915 -> 2021-10-17T06:22:30.999
YYMMDD_SOD:                    211017_22950.999        DOY=290
Obs Sequence Number:           00031115026
Obs Target Name:               AX J1749.1-2639
Obs Date and Times:            2021-10-17   06:11:34 - 06:28:31
Obs Pointing(ra,dec,roll):     267.272, -26.603, 264.62
263.536_-27.350_imageloc (boresight_dist, angle): (3, -98)
263.536_-27.350_exposure (cm^2 cos adjusted): 4356
263.536_-27.350_altitude: 67 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

—/tmp/swift/211017_0622.png



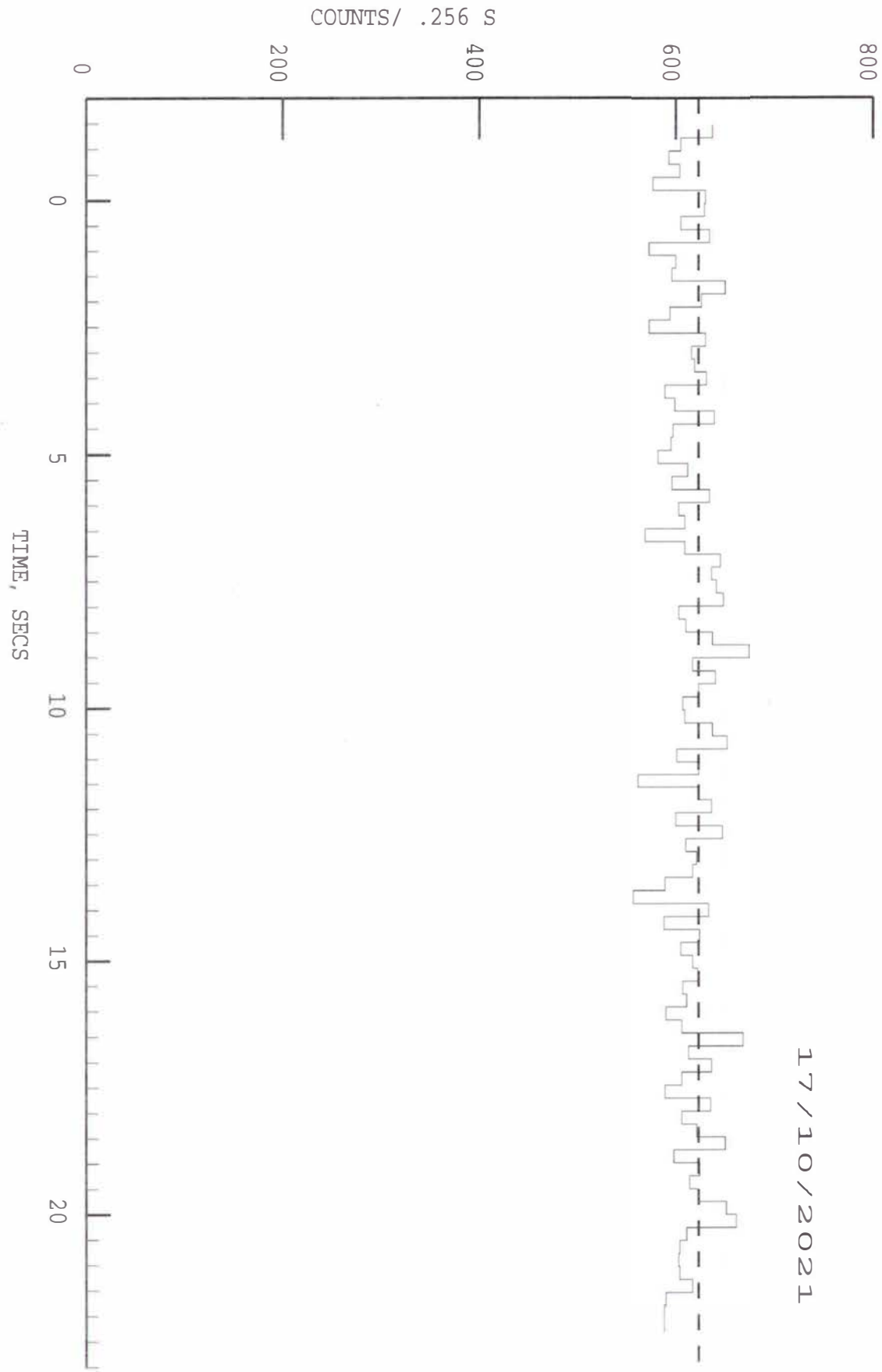
—Attachments:

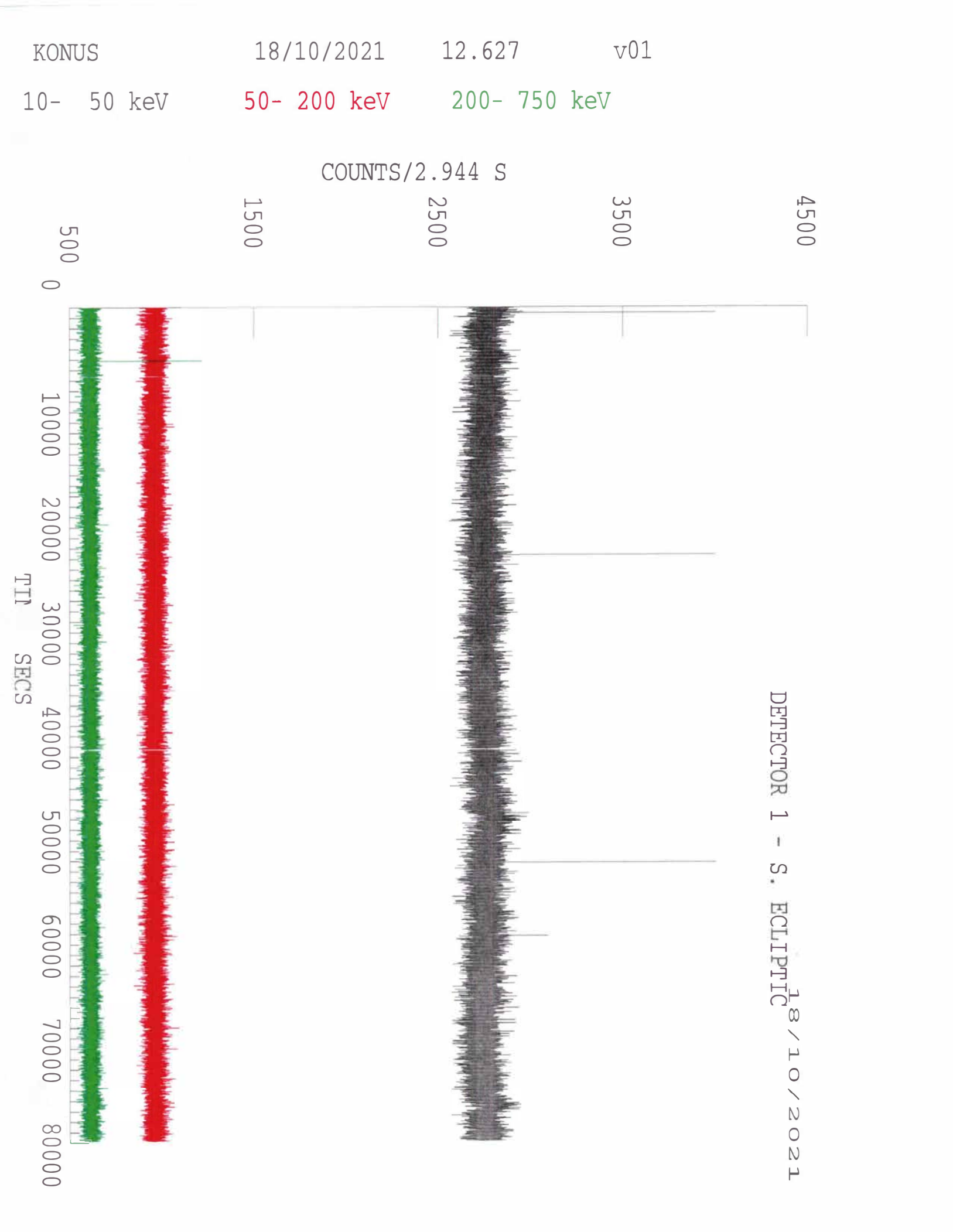
/tmp/swift/211017_0622_bat64ms_ipn	87.0 KB
/tmp/swift/211017_0622.png	18.0 KB

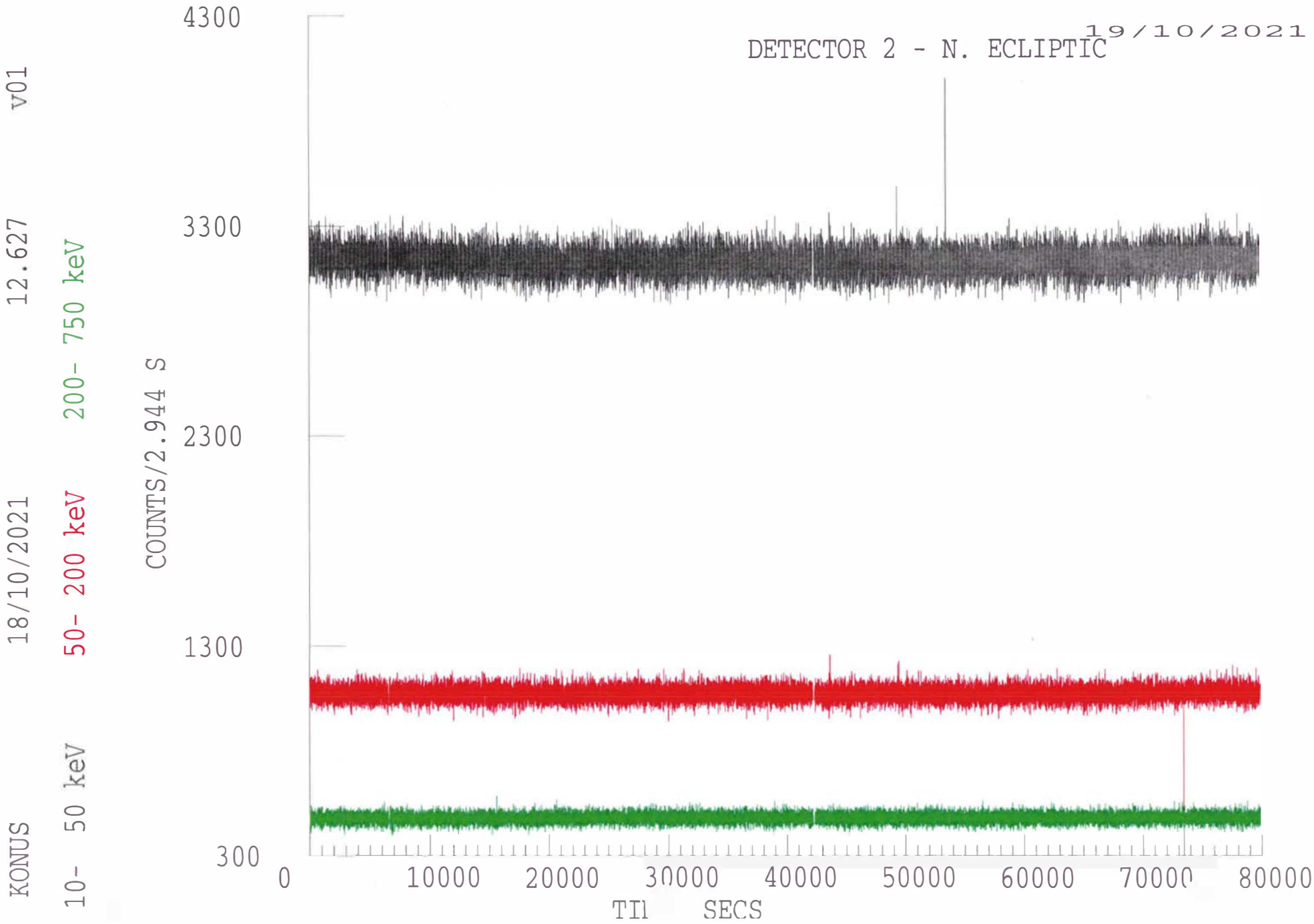
BAT 17/10/21 85516.080 23:45:16.080

25- 100 keV

?




KONUS 18/10/2021 12.627 v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
500
1500
2500
3500
4500
0
10000
20000
30000
40000
50000
60000
70000
80000
TIME SECS
DETECTOR 1 - S. ECLIPTIC 18/10/2021


KONUS
18/10/2021
12.627
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
19/10/2021
COUNTS/2.944 S
4300
3300
2300
1300
300
0
10000
20000
30000
40000
50000
60000
70000
80000
TIME SECS

GBM

Oct 18 2021 12:07:38

A

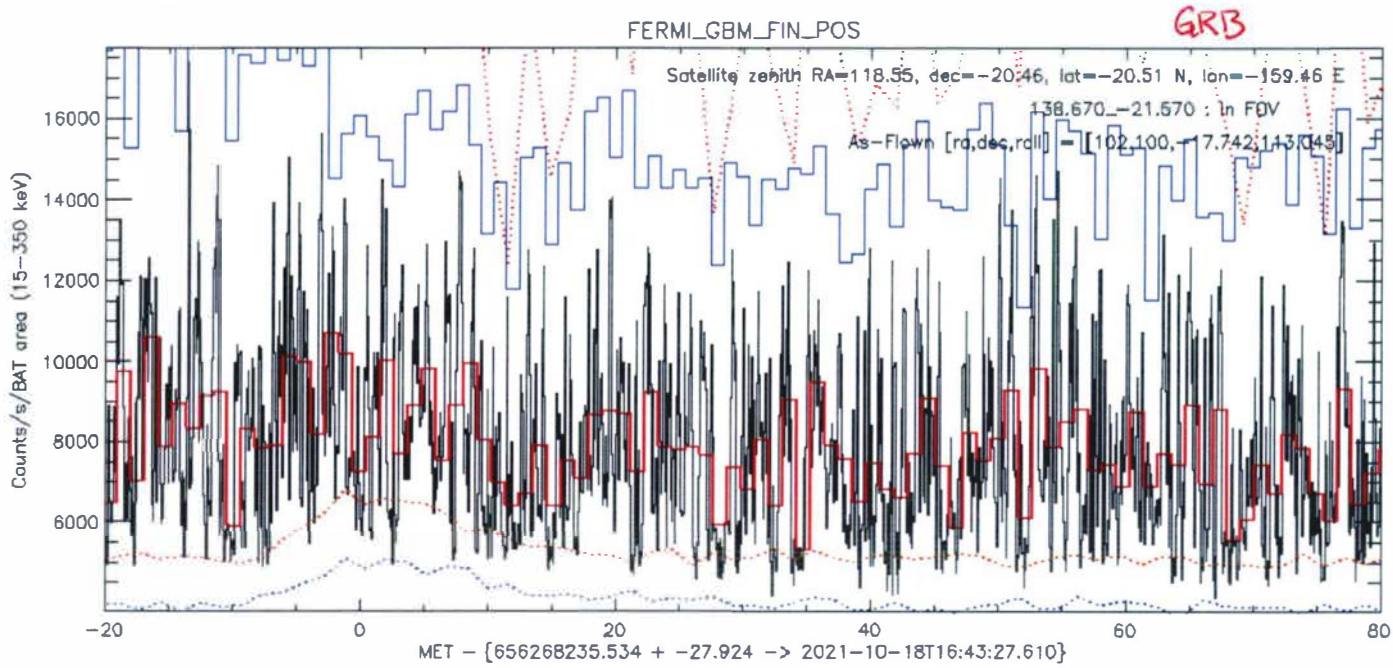
Subject: BAT lightcurve for trigger at 211018_1643
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/18/2021, 9:24 PM
To: dmopalmer@gmail.com, gbm-burst-advocate@lists.nasa.gov, aaron.tohu@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov, ipn@ssl.berkeley.edu

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-18T16:43:27.610 -s 138.670_-21.570
Swift Zenith(RA,dec):          118.55, -20.46
Swift Location(lon,lat,alt):  -159.46 E, -20.51 N, 560 km
Time(MET + UTCF -> UT):    656268235.534 + -27.924 -> 2021-10-18T16:43:27.610
YYMMDD_SOD:                    211018_60207.610       DOY=291
Obs Sequence Number:           00011005005
Obs Target Name:               TXS 0646-176
Obs Date and Times:            2021-10-18   16:31:34 - 17:00:32
Obs Pointing(ra,dec,roll):     102.100, -17.742, 113.05
138.670_-21.570_imageloc (boresight_dist, angle): (35, -101)
138.670_-21.570_exposure (cm^2 cos adjusted): 1451
138.670_-21.570_altitude: 94 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

—/tmp/swift/211018_1643.png



Attachments:

/tmp/swift/211018_1643.png	19.6 KB
/tmp/swift/211018_1643_bat64ms_ipn	87.1 KB

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Mon Oct 18 12:01:08
Date: Mon, 18 Oct 2021 15:01:04 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/CALET_GBM_FLT_LIGHTCURVE

TITLE: GCN/CALET NOTICE
NOTICE_DATE: Mon 18 Oct 21 19:01:04 UT
NOTICE_TYPE: CALET GBM Flight Lightcurve
POINT_RA: 138.17d {+09h 12m 41s} (J2000),
POINT_DEC: +42.80d {+42d 47' 49"} (J2000),
TRIGGER_NUM: 1318618794
TRIGGER_DATE: 19505 TJD; 291 DOY; 21/10/18
TRIGGER_TIME: 68388.53 SOD {18:59:48.53} UT
TRIGGER_DET: 0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE: 13.40 [sigma]
FOREGND_DUR: 4.00 [sec]
BACKGND_DUR1: 16.00 [sec]
ENERGY_BAND: 40-230 [keV]
SC_LON_LAT: 186.05,42.70 [deg]
LC_URL: http://cgbm.calet.jp/cgbm_trigger/flight//1318618794/index.html
COMMENTS: CALET-GBM Flight Lightcurve.
COMMENTS: The LC_URL file will not be created until ~15 min after the tri

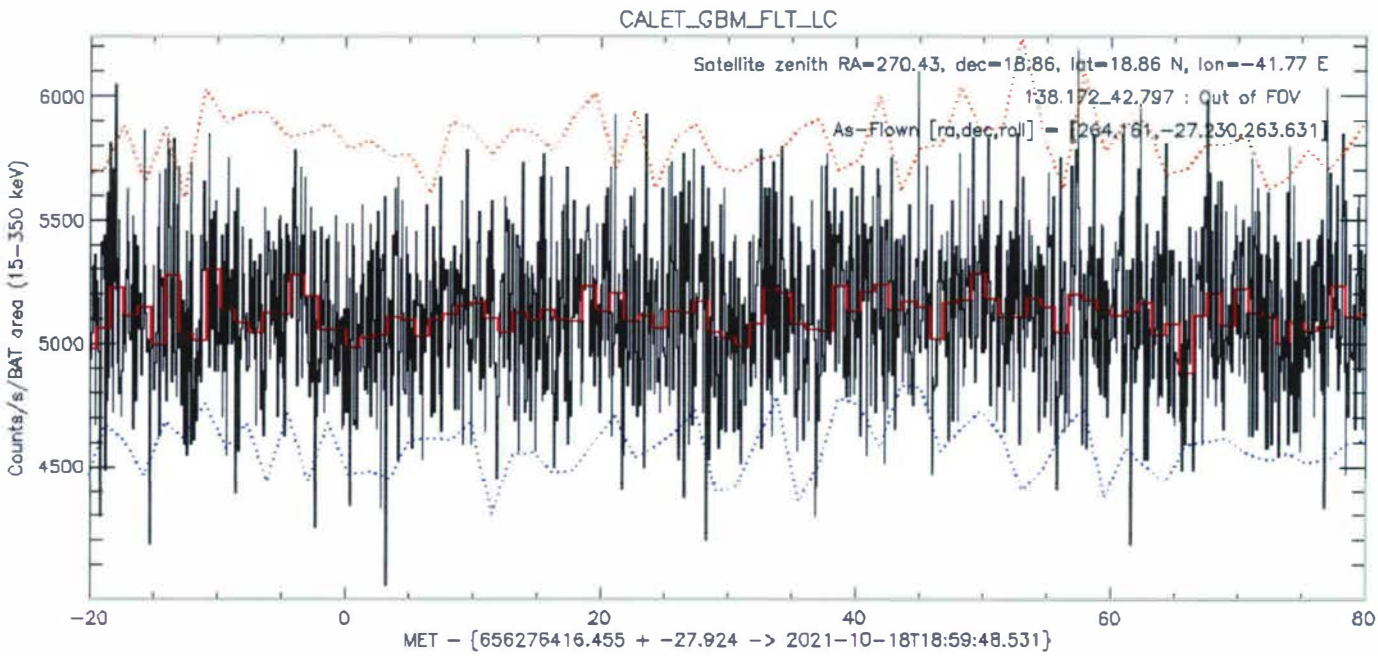
Subject: BAT lightcurve for trigger at 211018_1859
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/18/2021, 3:38 PM
To: bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov, dmopalmer@gmail.com, gbm-burst-advocate@lists.nasa.gov, ipn@ssl.berkeley.edu, aaron.tohu@gmail.com, mkippen@lanl.gov, palmer+automatic_lightcurve@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656276416.455 -s 138.172_42.797
Swift Zenith(RA,dec):          270.43, 18.86
Swift Location(lon,lat,alt):   -41.77 E, 18.86 N, 543 km
Time(MET + UTCF -> UT):    656276416.455 + -27.924 -> 2021-10-18T18:59:48.531
YYMMDD_SOD:                    211018_68388.531        DOY=291
Obs Sequence Number:           00014877001
Obs Target Name:
Obs Date and Times:            2021-10-18   18:53:27 - 19:02:12
Obs Pointing(ra,dec,roll):     264.161, -27.230, 263.63
138.172_42.797_imageloc (boresight_dist, angle): (134, -49)
138.172_42.797_exposure (cm^2 cos adjusted): 0
138.172_42.797_altitude: 9 (depressed but unattenuated)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

—/tmp/swift/211018_1859.png—



—Attachments:

/tmp/swift/211018_1859_bat64ms_ipn	60.0 KB
/tmp/swift/211018_1859.png	18.8 KB

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Mon Oct 18 13:34:46
Date: Mon, 18 Oct 2021 16:34:42 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/CALET_GBM_FLT_LIGHTCURVE

TITLE: GCN/CALET NOTICE
NOTICE_DATE: Mon 18 Oct 21 20:34:40 UT
NOTICE_TYPE: CALET GBM Flight Lightcurve
POINT_RA: 142.87d {+09h 31m 29s} (J2000),
POINT_DEC: +44.95d {+44d 56' 53"} (J2000),
TRIGGER_NUM: 1318624435
TRIGGER_DATE: 19505 TJD; 291 DOY; 21/10/18
TRIGGER_TIME: 74030.32 SOD {20:33:50.32} UT
TRIGGER_DET: 0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE: 12.50 [sigma]
FOREGND_DUR: 4.00 [sec]
BACKGND_DUR1: 16.00 [sec]
ENERGY_BAND: 40-230 [keV]
SC_LON_LAT: 167.19,44.84 [deg]
LC_URL: http://cgbm.calet.jp/cgbm_trigger/flight//1318624435/index.html
COMMENTS: CALET-GBM Flight Lightcurve.
COMMENTS: The LC_URL file will not be created until ~15 min after the tri

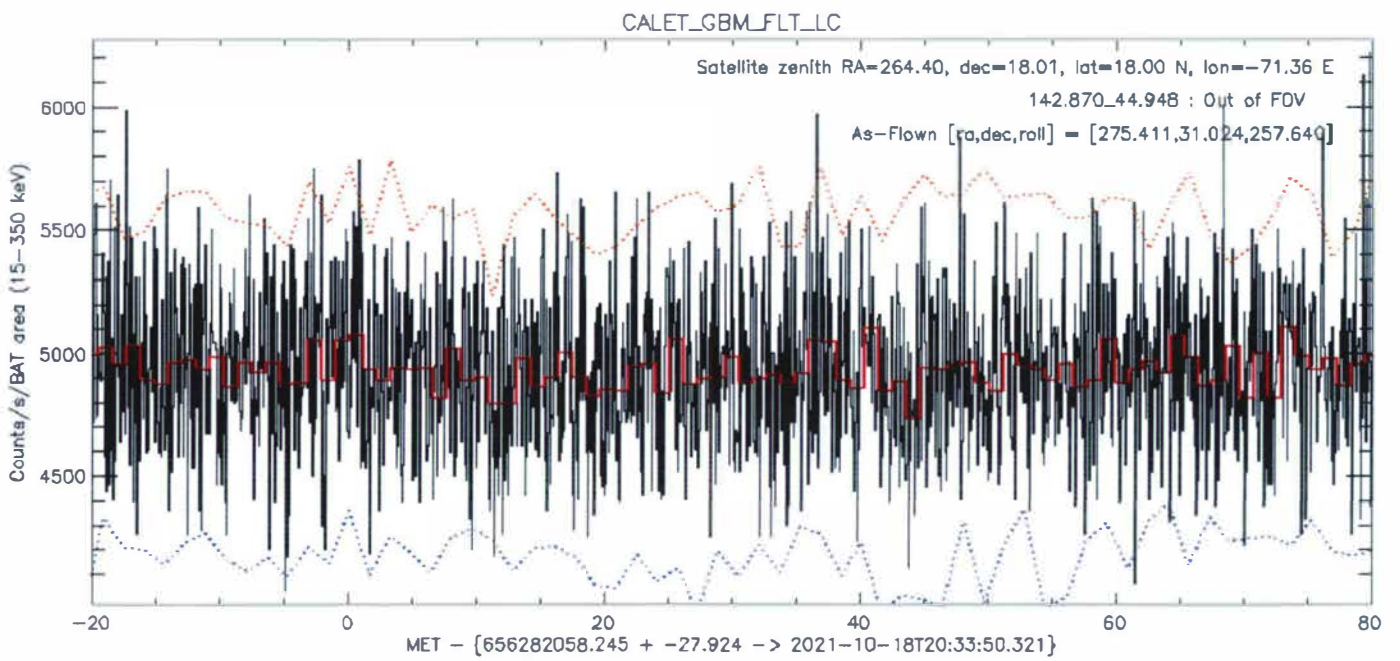
Subject: BAT lightcurve for trigger at 211018_2033
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/18/2021, 4:10 PM
To: ipn@ssl.berkeley.edu, vestrand@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, mkippen@lanl.gov, palmer+automatic_lightcurve@lanl.gov, aaron.tohu@gmail.com, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656282058.245 -s 142.870_44.948
Swift Zenith(RA,dec):          264.40, 18.01
Swift Location(lon,lat,alt):   -71.36 E, 18.00 N, 544 km
Time(MET + UTCF -> UT):    656282058.245 + -27.924 -> 2021-10-18T20:33:50.321
YYMMDD_SOD:                    211018_74030.321       DOY=291
Obs Sequence Number:           00011408005
Obs Target Name:               SN2019cqc
Obs Date and Times:            2021-10-18   20:18:34 - 20:43:29
Obs Pointing(ra,dec,roll):     275.411, 31.024, 257.64
142.870_44.948_imageloc (boresight_dist, angle): (93, -19)
142.870_44.948_exposure (cm^2 cos adjusted): 0
142.870_44.948_altitude: 15 (depressed but unattenuated)
```

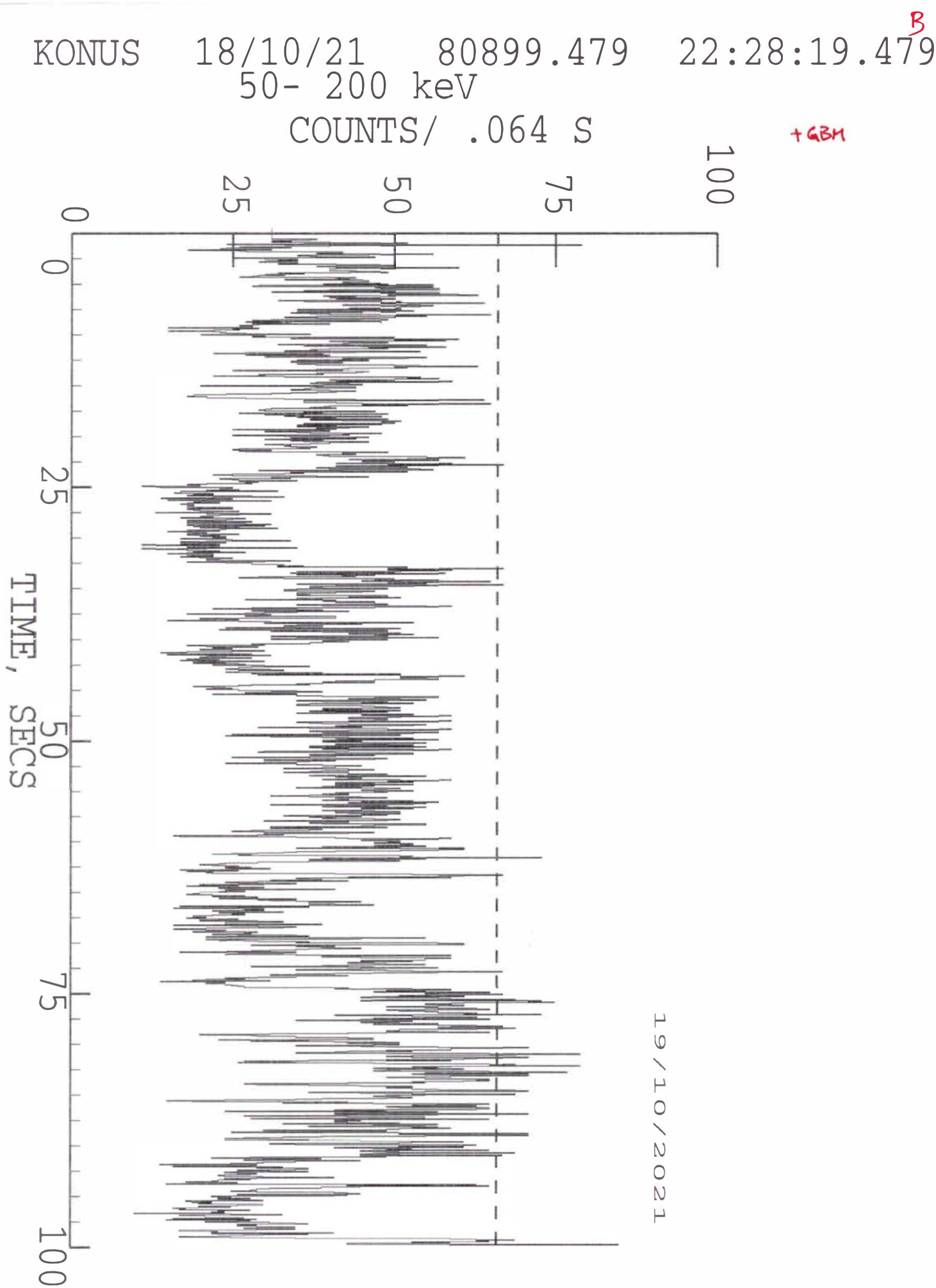
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

—/tmp/swift/211018_2033.png

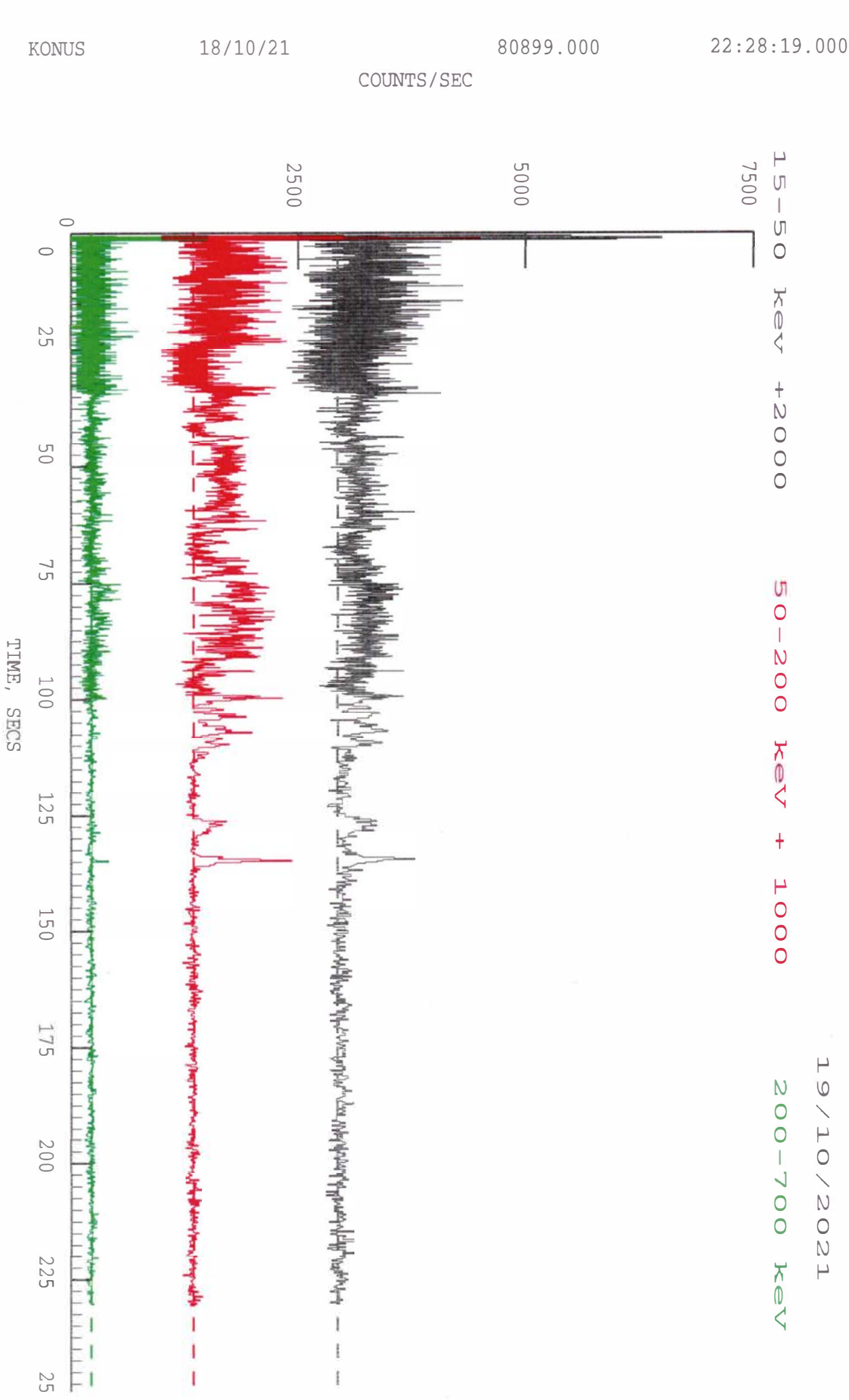


—Attachments:

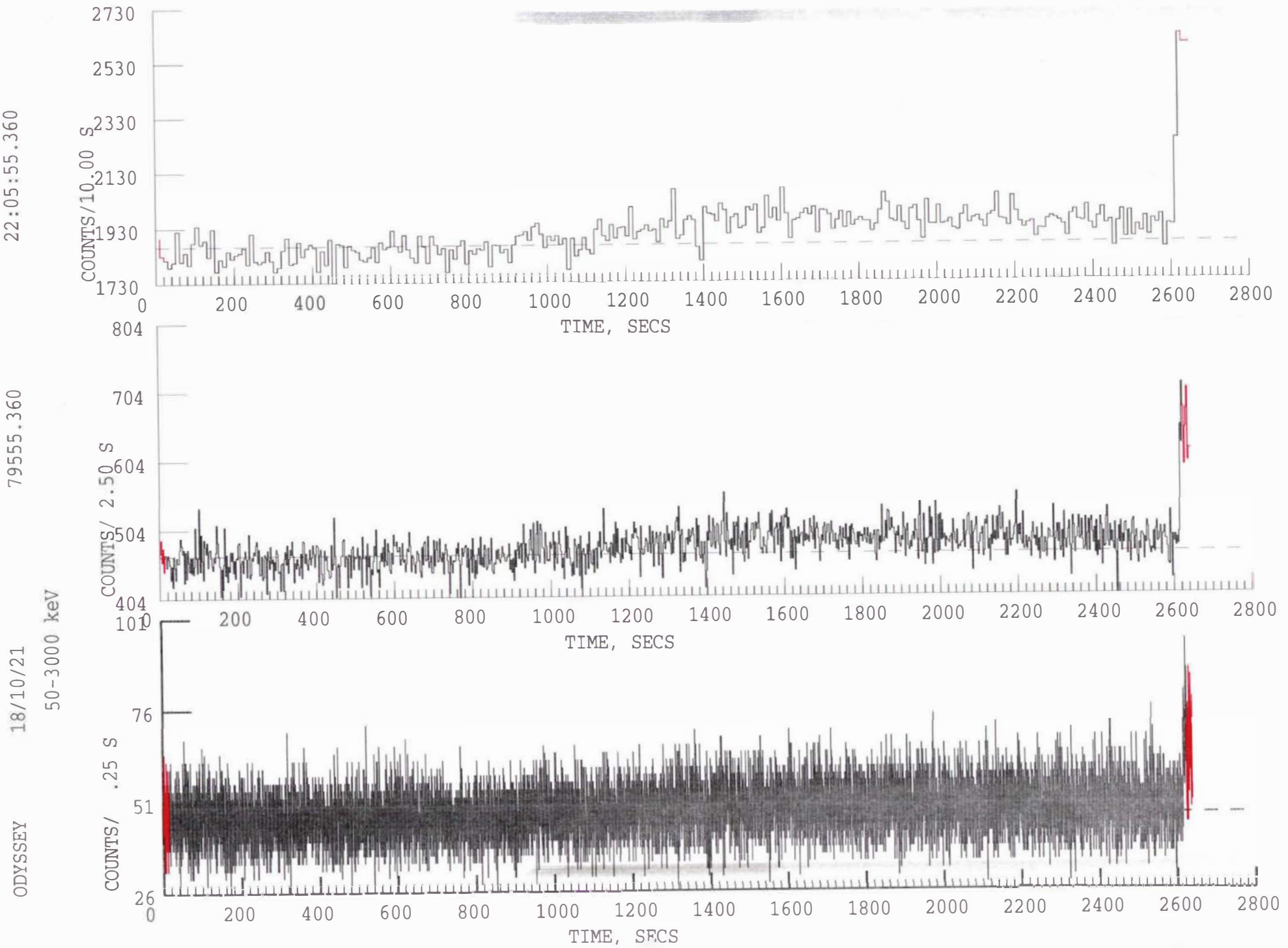
/tmp/swift/211018_2033.png	18.6 KB
/tmp/swift/211018_2033_bat64ms_ipn	87.1 KB


KONUS 18/10/21 80899.479 22:28:19.479
B
50- 200 keV
COUNTS/ .064 S
+GBM
0
25
50
75
100
TIME, SECS
19/10/2021

B

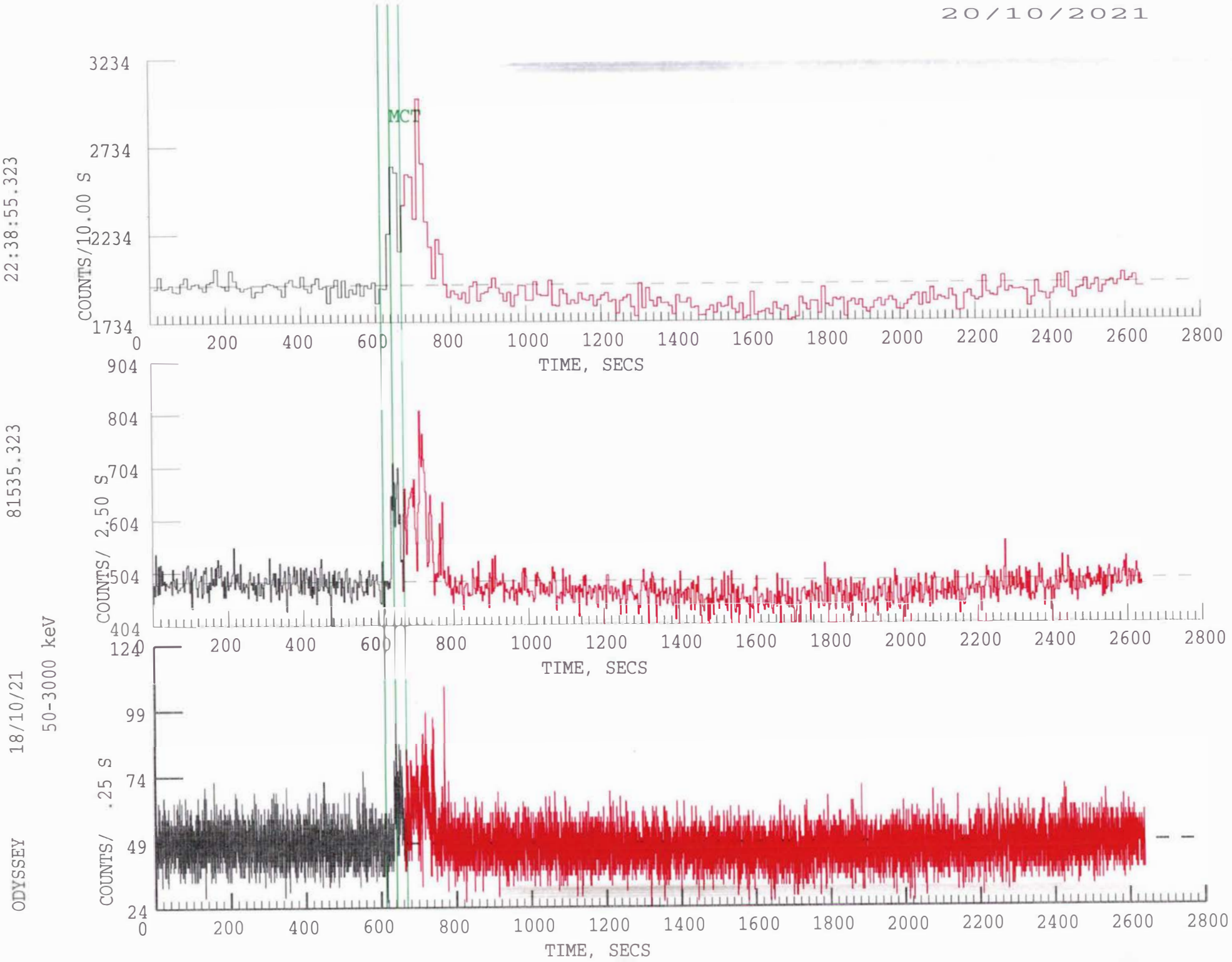

KONUS
18/10/21
80899.000
22:28:19.000
COUNTS/SEC
0
2500
5000
7500
15-50 kev +2000
50-200 kev + 1000
200-700 kev
19/10/2021
0
25
50
75
100
125
150
175
200
225
TIME, SECS

13


22:05:55.360
79555.360
18/10/21
ODYSSEY
50-3000 keV
COUNTS/10.00 S
2730
2530
2330
2130
1930
1730
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
TIME, SECS
COUNTS/ 2.50 S
804
704
604
504
404
101
TIME, SECS
COUNTS/ .25 S
76
51
26
TIME, SECS

20/10/2021

B


ODYSSEY
18/10/21
81535.323
22:38:55.323
50-3000 keV
MCT
COUNTS/10.00 S
3234
2734
2234
1734
COUNTS/ 2.50 S
904
804
704
604
504
404
COUNTS/ .25 S
124
99
74
49
24
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
TIME, SECS

13

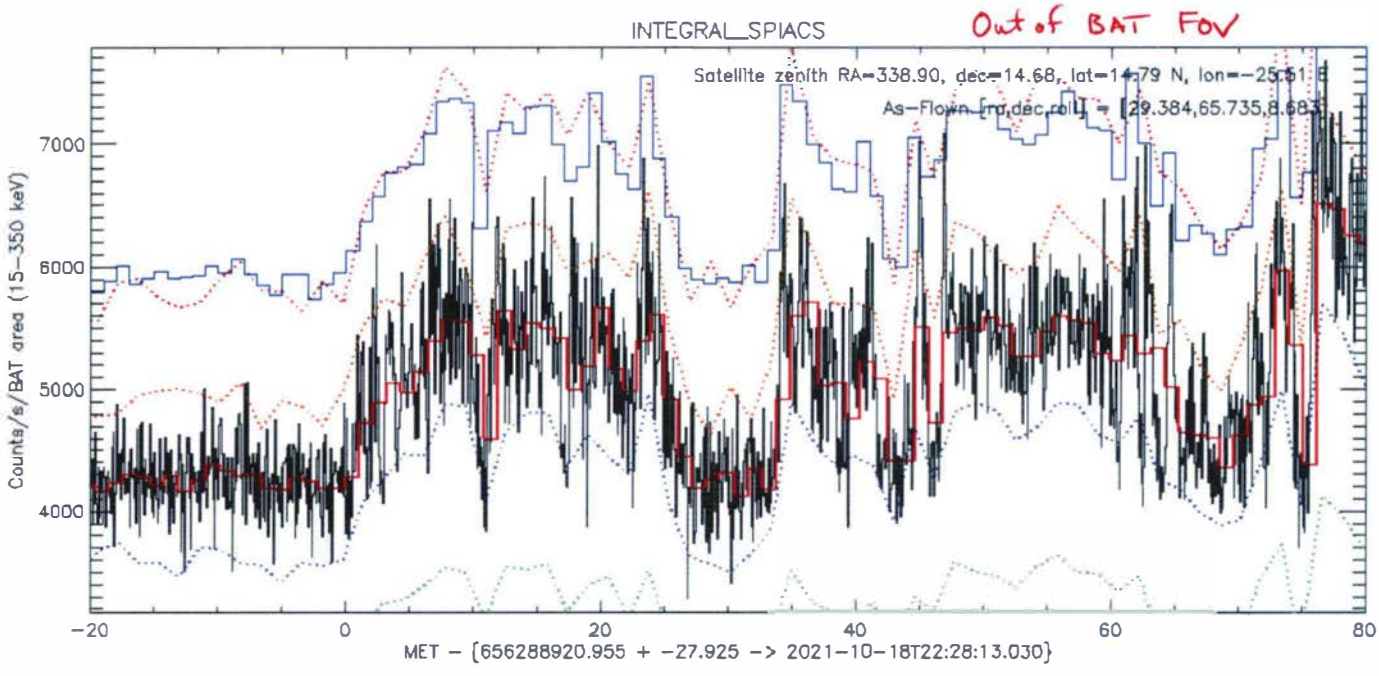
Subject: BAT lightcurve for trigger at 211018_2228
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/18/2021, 6:17 PM
To: ipn@ssl.berkeley.edu, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com, palmer+automatic_lightcurve@lanl.gov, mkippen@lanl.gov, aaron.tohu@gmail.com, bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656288920.955
Swift Zenith(RA,dec):          338.90, 14.68
Swift Location(lon,lat,alt):  -25.51 E, 14.79 N, 540 km
Time(MET + UTCF -> UT):    656288920.955 + -27.925 -> 2021-10-18T22:28:13.030
YYMMDD_SOD:                211018_80893.030       DOY=291
Obs Sequence Number:           00013201203
Obs Target Name:               FRB180916.J0158+65
Obs Date and Times:            2021-10-18   22:14:34 - 22:40:32
Obs Pointing(ra,dec,roll):     29.384, 65.735, 8.68
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

—/tmp/swift/211018_2228.png



—Attachments:

/tmp/swift/211018_2228_bat64ms_ipn	87.0 KB
/tmp/swift/211018_2228.png	27.6 KB

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Tue Oct 19 01:35:29
Date: Tue, 19 Oct 2021 04:35:25 -0400
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GRB 211018A: Fermi-LAT detection

B

TITLE: GCN CIRCULAR
NUMBER: 30943
SUBJECT: GRB 211018A: Fermi-LAT detection
DATE: 21/10/19 08:34:58 GMT
FROM: Magnus Axelsson at Stockholm U. <magaxe@kth.se>

M. Arimoto (Kanazawa Univ.), M. Axelsson (KTH & Stockholm Univ.), N. Di Lalla (S

On October 18th, 2021, Fermi-LAT detected high-energy emission from GRB 211018A,

RA, Dec = 19.68, -3.60 (degrees, J2000)

with an error radius of 0.19 deg (90% containment, statistical error only).

The position was 68 deg from the LAT boresight at the time of the GBM trigger:

T0 = 22:28:13.9 UT.

The data from the Fermi-LAT show a significant increase in the event rate after

The estimated photon index above 100 MeV is -2.0 (-/+ 0.2).

The highest-energy photon is a 3.3 GeV event which is observed 25 seconds after

. Swift ToO has been requested for this burst.

The Fermi-LAT point of contact for this burst is Donggeun Tak (takdg123@gmail.co

The Fermi-LAT is a pair conversion telescope designed to cover the energy band f

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Tue Oct 19 05:06:11
Date: Tue, 19 Oct 2021 08:06:06 -0400
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GRB 211018A: Detection by GRBAlpha

B

TITLE: GCN CIRCULAR
NUMBER: 30945
SUBJECT: GRB 211018A: Detection by GRBAlpha
DATE: 21/10/19 12:05:37 GMT
FROM: Masanori Ohno at Hiroshima U <ohno@astro.hiroshima-u.ac.jp>

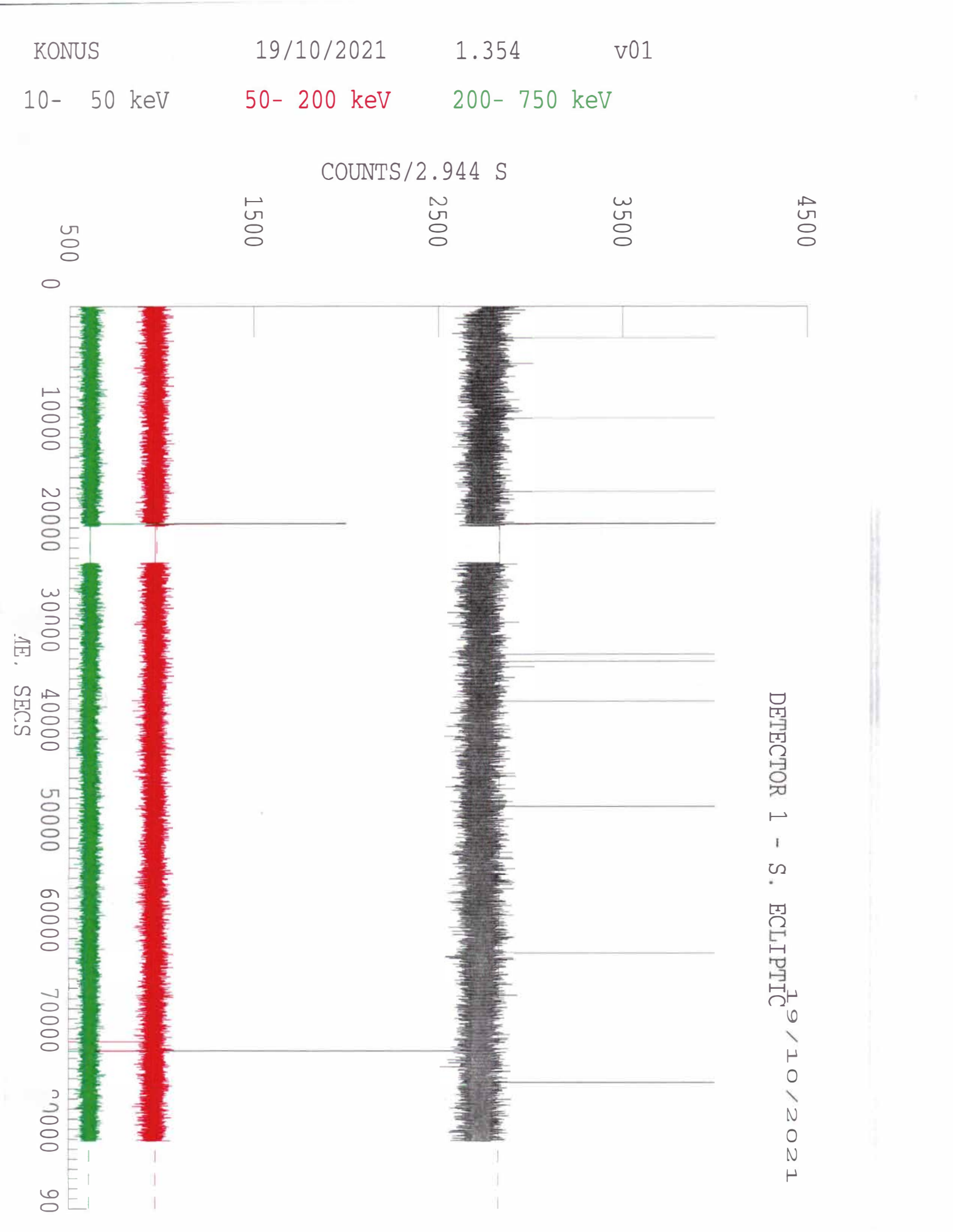
M. Ohno (Eotvos U./Konkoly Observatory/Hiroshima U.), J. Ripa (Masaryk U.), H. Takahashi (Hiroshima U.), A. Pal, L. Meszaros, B. Csak (Konkoly Observatory), N. Werner, M. Topinka, F. Munz, F. Hroch (Masaryk U.), T. Urbanec, M. Kasal, A. Povalac (Brno U. of Technology), J. Hudec, J. Kapus, M. Frajt (Spacemanic s.r.o), R. Laszlo, M. Koleda (Needronix s.r.o), M. Smelko, P. Hanak, P. Lipovsky (Technical U. of Kosice), G. Galgoczi (Wigner Research Center/Eotvos U.), Yuusuke Uchida, Helen Poon, H. Matake, N. Uchida (Hiroshima U.), T. Bozoki (Eotvos U.), G. Dalya (Eotvos U.), T. Enoto (Kyoto U.), Zs. Frei (Eotvos U.), G. Friss (Eotvos U.), Y. Fukazawa, K. Hirose (Hiroshima U.), S. Hisadomi (Nagoya U.), Y. Ichinohe (Rikkyo U.), K. Kapas (Eotvos U.), L. L. Kiss (Konkoly Observatory), T. Mizuno (Hiroshima U.), K. Nakazawa (Nagoya U.), H. Odaka (Univ of Tokyo), J. Takatsy (Eotvos U.), K. Torigoe (Hiroshima U.) -- the GRBAlpha collaboration.

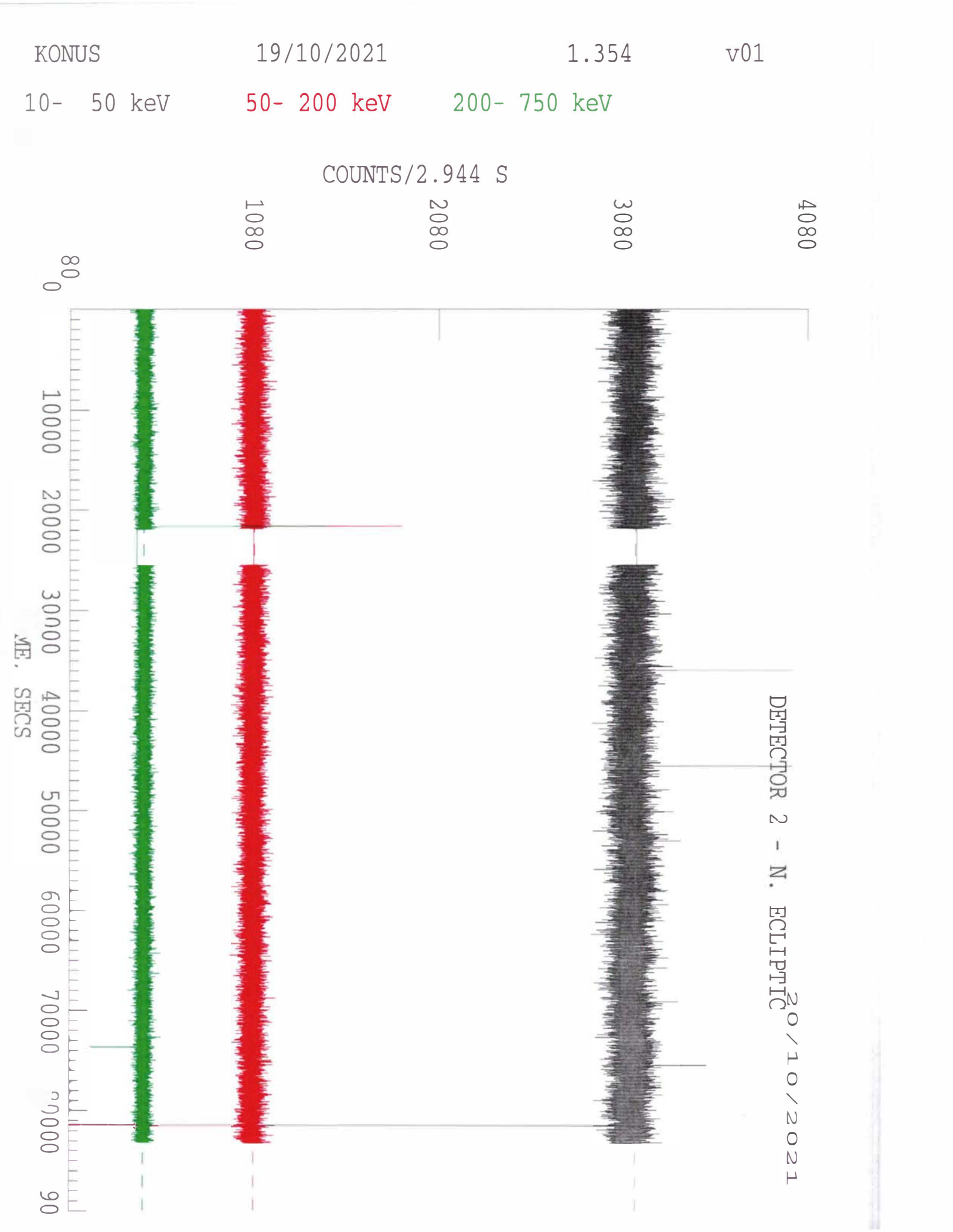
The bright/long duration GRB 211018A (Fermi-GBM detection trigger 656288898/211018936, Fermi-LAT detection; Arimoto et al., GCN Circ. 30943) was detected by the GRBAlpha 1U CubeSat (Pal et al. Proc. SPIE 2020).

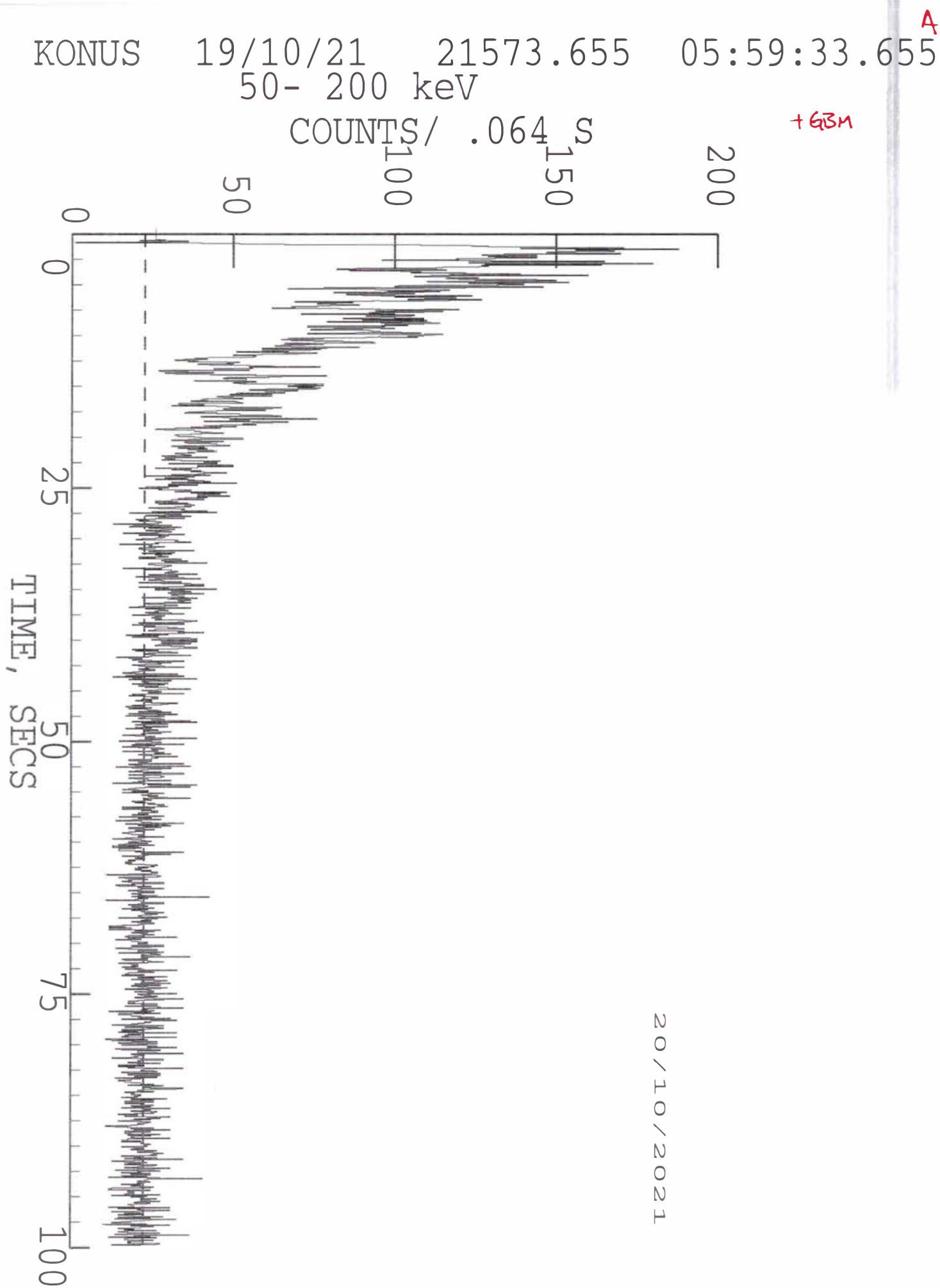
The light curve shows a very long multiple-peaked structure with a duration of about 168 s (T90 = 140 s). At 22:29:34 UTC, our detection reached a SNR ~ 46.

The light curve obtained by GRBAlpha is available here:
https://grbalpha.konkoly.hu/static/share/GRB211018A_GCN.pdf

GRBAlpha is a demonstration mission for a future CubeSats constellation (Werner et al. Proc. SPIE 2018). The detector of GRBAlpha consists of a 75 x 75 x 5 mm3 CsI scintillator read out by a SiPM array, covering the energy range from ~50 keV to ~1000 keV. GRBAlpha was launched on 2021 March 22 from Baikonur. After its commissioning phase, the scientific observations are now under way. To increase the duty cycle and the downlink rate, the upgrade of the on-board data acquisition software stack is in progress. The ground segment is also supported by the radio amateur community and it takes advantage of the SatNOGS network for increased data downlink volume.

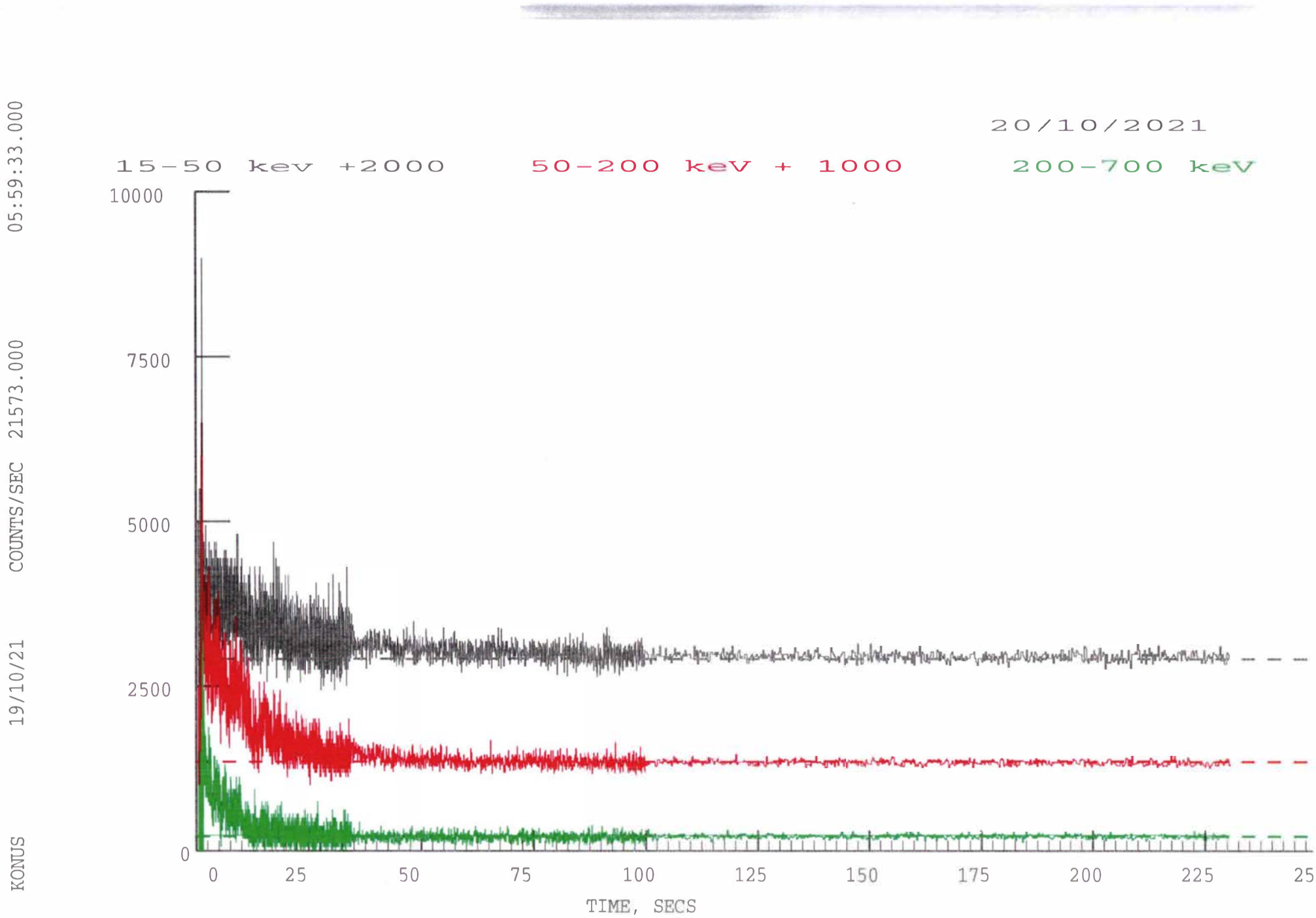

KONUS 19/10/2021 1.354 v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
500
1500
2500
3500
4500
0
10000
20000
30000
40000
50000
60000
70000
90
ΔE. SECS
DETECTOR 1 - S. ECLIPTIC 19/10/2021

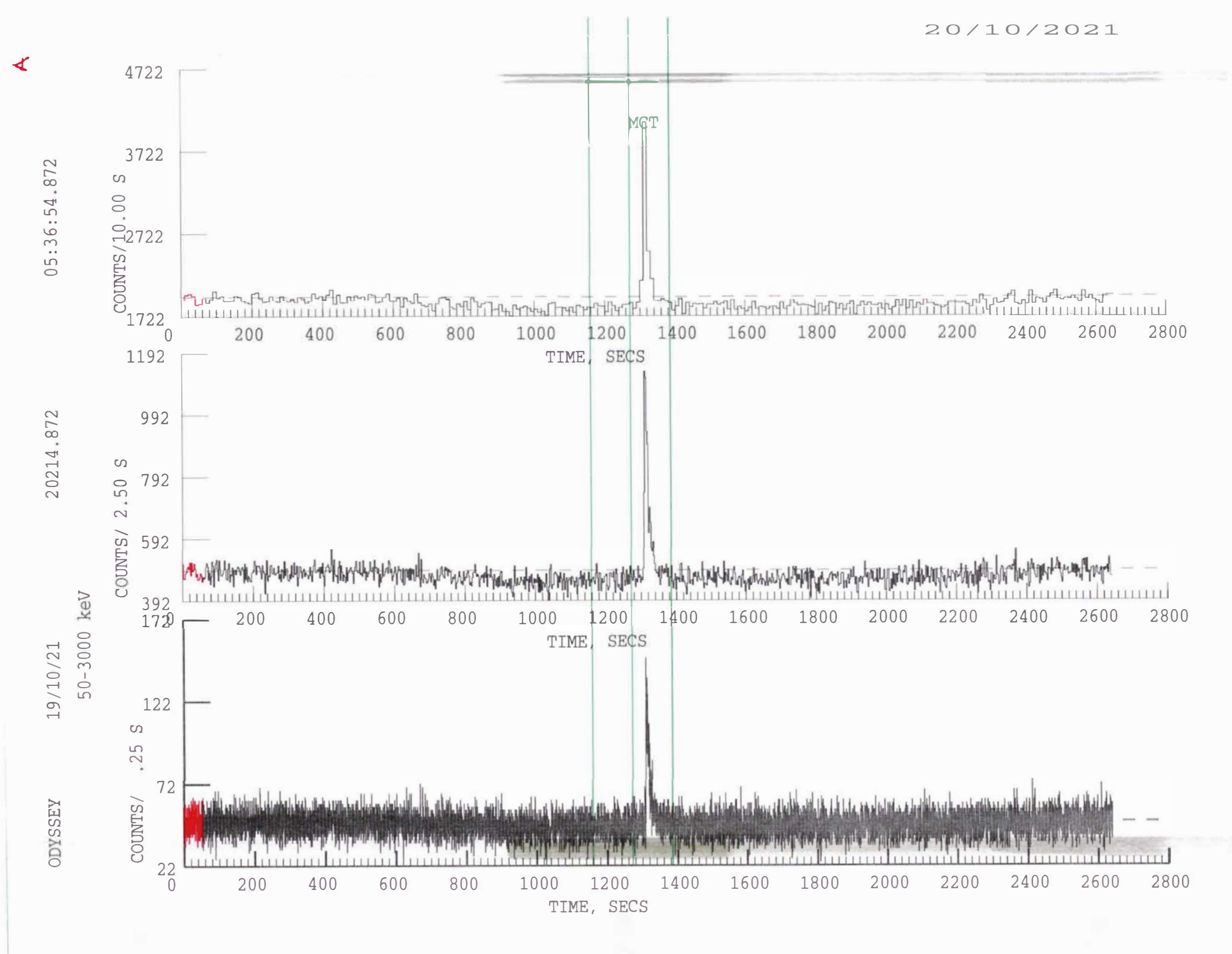

KONUS
19/10/2021
1.354
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
0
80
1080
2080
3080
4080
10000
20000
30000
40000
50000
60000
70000
80000
90
TIME, SECS
DETECTOR 2 - N. ECLIPTIC
20/10/2021


KONUS 19/10/21 21573.655 05:59:33.655
50- 200 keV
COUNTS/ .064 S
0
50
100
150
200
TIME, SECS
0
25
50
75
100
20/10/2021

A

+GBM


20/10/2021
15-50 kev +2000
50-200 keV + 1000
200-700 keV
10000
7500
5000
2500
0
0
25
50
75
100
125
150
175
200
225
25
TIME, SECS
KONUS
19/10/21
COUNTS/SEC
21573.000
05:59:33.000


20/10/2021
A
05:36:54.872
20214.872
19/10/21
ODYSSEY
50-3000 keV
MGT
COUNTS/10.00 S
4722
3722
2722
1722
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
TIME, SECS
COUNTS/ 2.50 S
1192
992
792
592
392
172
TIME, SECS
COUNTS/ .25 S
122
72
22
TIME, SECS

Subject: IPN Triangulation of GRB 211019A
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Date: 10/25/2021, 8:04 AM
To: khurley@ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 30993
SUBJECT: IPN Triangulation of GRB 211019A
DATE: 21/10/25 15:02:56 GMT
FROM: Dmitry Svinkin at Ioffe Institute <svinkin@mail.ioffe.ru>

A.S. Kozyrev, D.V. Golovin, M.L. Litvak, I.G. Mitrofanov, and A.B. Sanin
on behalf of the MGNS/BepiColombo and HEND/Mars Odyssey teams,

J. Benkhoff on behalf of the BepiColombo team,

K. Hurley on behalf of the IPN,

D. Svinkin, S. Golenetskii, D. Frederiks, A. Ridnaia,
A. Lysenko, and T. Cline on behalf of the Konus-Wind team,

A. Goldstein, M. S. Briggs, and C. Wilson-Hodge
on behalf of the Fermi GBM team,

A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo,
and C. Ferrigno, on behalf of the INTEGRAL SPI-ACS GRB team,

and

W. Boynton, C. Fellows, K. Harshman, H. Enos, and R. Starr,
on behalf of the GRS-Odyssey GRB team, report:

The bright, long-duration GRB 211019A
(Fermi-GBM detection: The Fermi GBM team, GCN Circ. 30941;
BALROG localization: F. Kunzweiler et al., GCN Circ. 30942;
GRBAlpha detection: J. Ripa et al., GCN Circ. 30946)
was detected by BepiColombo (MGNS; see introductory GCN Circ. 30949),
Mars-Odyssey (HEND), GRBAlpha, Fermi (GBM trigger 656315976),
Konus-Wind, and INTEGRAL (SPI-ACS), at about 21571 s UT (05:59:31).

The burst light curves in the energy range 30 keV-1.5 MeV (HEND) and
250-450 keV (MGNS) exhibit a bright peak with a total duration of ~17 s.

We have triangulated GRB 211019A to the following 3 sigma annuli:

	R.A.(J2000) deg	Dec.(J2000) deg	R deg	+dR deg	-dR deg
MGNS-HEND	27.190	10.927	89.034	+0.021	-0.022
Konus-HEND	200.705	-8.093	87.815	+0.017	-0.017
Konus-GBM	190.965	-7.594	80.456	+0.431	-0.431

The MGNS-HEND and Konus-HEND annuli intersect to form two error
boxes one of which is inconsistent with the Konus-GBM annulus,
the KW ecliptic latitude response,
and the Fermi (GBM) RoboBA and BALROG localizations.

The correct preliminary, 3 sigma error box is:

RA(2000), deg	Dec(2000), deg
Center:	
106.988 (07h 07m 57s)	-38.779 (-38d 46' 43")
Corners:	
106.975 (07h 07m 54s)	-38.728 (-38d 43' 41")
106.898 (07h 07m 36s)	-39.122 (-39d 07' 19")
107.002 (07h 08m 01s)	-38.819 (-38d 49' 07")
107.079 (07h 08m 19s)	-38.424 (-38d 25' 25")

The error box area is 49 sq. arcmin, and its maximum
dimension is 43 arcmin (the minimum one is 2.0 arcmin).
The Sun distance was 89 deg.

This box may be improved.

A triangulation maps are posted at:
http://www.ioffe.ru/LEA/GRBs/GRB211019_T21573/IPN/
and
http://l503.iki.rssi.ru/owncloud/index.php/s/bRzLdux7RLz1tVf

A

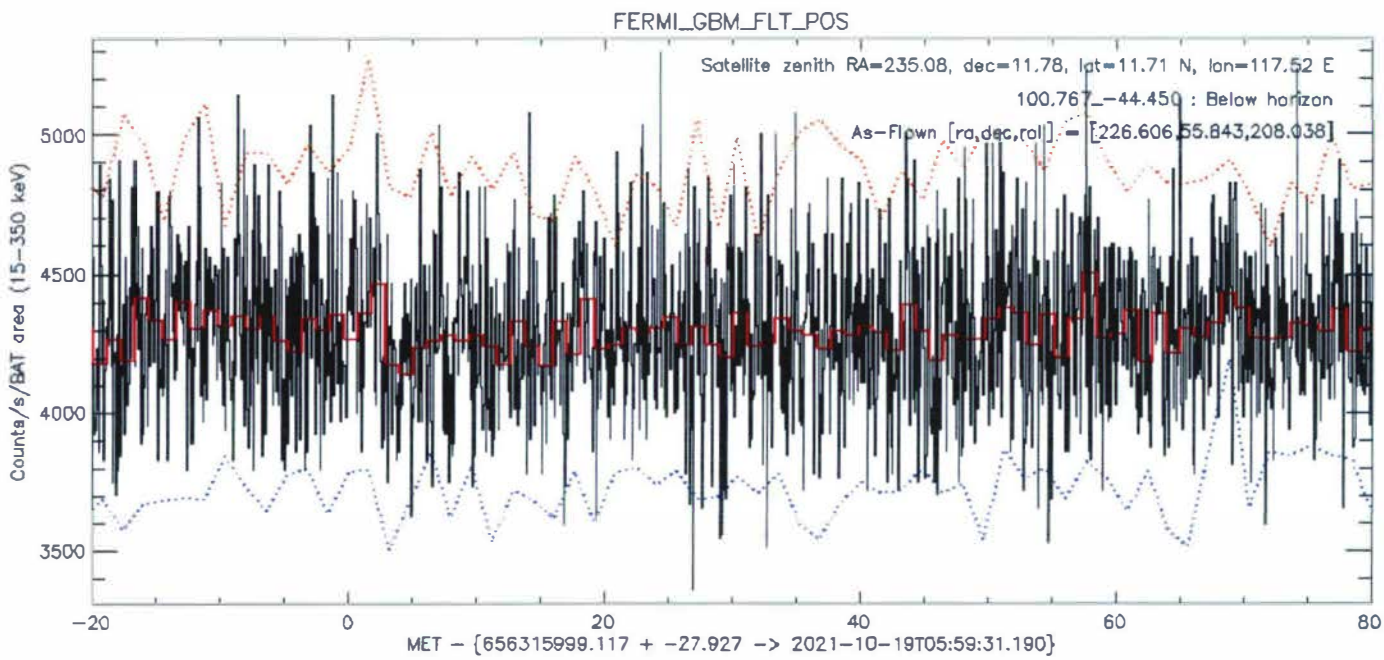
Subject: BAT lightcurve for trigger at 211019_0559
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/19/2021, 2:08 AM
To: gbm-burst-advocate@lists.nasa.gov, vestrand@lanl.gov, palmer+automatic_lightcurve@lanl.gov, mkippen@lanl.gov, aaron.tohu@gmail.com, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu, dmopalmer@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656315999.117 -s 100.767_-44.450
Swift Zenith(RA,dec):          235.08, 11.78
Swift Location(lon,lat,alt):   117.52 E, 11.71 N, 547 km
Time(MET + UTCF -> UT):    656315999.117 + -27.927 -> 2021-10-19T05:59:31.190
YYMMDD_SOD:                    211019_21571.190        DOY=292
Obs Sequence Number:           03110931012
Obs Target Name:               NGC 5866
Obs Date and Times:            2021-10-19   05:46:34 - 06:14:31
Obs Pointing(ra,dec,roll):     226.606, 55.843, 208.04
100.767_-44.450_imageloc (boresight_dist, angle): (145, -33)
100.767_-44.450_exposure (cm^2 cos adjusted): 0
100.767_-44.450_altitude: -16 (down)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211019_0559.png



Attachments:

/tmp/swift/211019_0559_bat64ms_ipn	87.1 KB
/tmp/swift/211019_0559.png	20.1 KB

A

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Tue Oct 19 08:12:28
Date: Tue, 19 Oct 2021 11:12:24 -0400
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GRB 211019A: Detection by GRBAlpha

TITLE: GCN CIRCULAR
NUMBER: 30946
SUBJECT: GRB 211019A: Detection by GRBAlpha
DATE: 21/10/19 15:11:53 GMT
FROM: Masanori Ohno at Hiroshima U <ohno@astro.hiroshima-u.ac.jp>

J. Ripa (Masaryk U.), M. Ohno (Eotvos U./Konkoly Observatory/Hiroshima U.), H. Takahashi (Hiroshima U.), A. Pal, L. Meszaros, B. Csak (Konkoly Observatory), N. Werner, M. Topinka, F. Munz, F. Hroch (Masaryk U.), T. Urbanec, M. Kasal, A. Povalac (Brno U. of Technology), J. Hudec, J. Kapus, M. Frajt (Spacemanic s.r.o), R. Laszlo, M. Koleda (Needronix s.r.o), M. Smelko, P. Hanak, P. Lipovsky (Technical U. of Kosice), G. Galgoczi (Wigner Research Center/Eotvos U.), Yuusuke Uchida, Helen Poon, H. Matake, N. Uchida (Hiroshima U.), T. Bozoki (Eotvos U.), G. Dalya (Eotvos U.), T. Enoto (Kyoto U.), Zs. Frei (Eotvos U.), G. Friss (Eotvos U.), Y. Fukazawa, K. Hirose (Hiroshima U.), S. Hisadomi (Nagoya U.), Y. Ichinohe (Rikkyo U.), K. Kapas (Eotvos U.), L. L. Kiss (Konkoly Observatory), T. Mizuno (Hiroshima U.), K. Nakazawa (Nagoya U.), H. Odaka (Univ of Tokyo), J. Takatsy (Eotvos U.), K. Torigoe (Hiroshima U.) -- the GRBAlpha collaboration.

The bright/long duration GRB 211019A (Fermi-GBM detection; GCN Circ. 30941, BALROG localization; Kunzweiler et al., GCN 30942) was detected by the GRBAlpha 1U CubeSat (Pal et al. Proc. SPIE 2020).

The light curve shows a strong FRED-like structure with the duration of about 40 s (T90 = 36 s). At 05:59:34 UTC, our detection reached a peak SNR ~ 39.

The light curve obtained by GRBAlpha is available here:
https://grbalpha.konkoly.hu/static/share/GRB211019A_GCN.pdf

GRBAlpha is a demonstration mission for a future CubeSats constellation (Werner et al. Proc. SPIE 2018). The detector of GRBAlpha consists of a 75 x 75 x 5 mm3 CsI scintillator read out by a SiPM array, covering the energy range from ~50 keV to ~1000 keV. GRBAlpha was launched on 2021 March 22 from Baikonur. After its commissioning phase, the scientific observations are now under way. To increase the duty cycle and the downlink rate, the upgrade of the on-board data acquisition software stack is in progress. The ground segment is also supported by the radio amateur community and it takes advantage of the SatNOGS network for increased data downlink volume.

Subject: GCN/CALET_GBM_FLT_LIGHTCURVE
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
Date: 10/19/2021, 8:04 AM
To: khurley@ssl.berkeley.edu

```
TITLE:           GCN/CALET NOTICE
NOTICE_DATE:     Tue 19 Oct 21 15:04:34 UT
NOTICE_TYPE:     CALET GBM Flight Lightcurve
POINT_RA:        119.22d {+07h 56m 53s} (J2000),
POINT_DEC:       +33.96d {+33d 57' 43"} (J2000),
TRIGGER_NUM:     1318691039
TRIGGER_DATE:    19506 TJD;   292 DOY;   21/10/19
TRIGGER_TIME:    54235.81 SOD {15:03:55.81} UT
TRIGGER_DET:     0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE:    9.80 [sigma]
FOREGND_DUR:     4.00 [sec]
BACKGND_DUR1:    16.00 [sec]
ENERGY_BAND:     40-230 [keV]
SC_LON_LAT:      225.24,33.90 [deg]
LC_URL:          http://cgbm.calet.jp/cgbm_trigger/flight//1318691039/index.html
COMMENTS:        CALET-GBM Flight Lightcurve.
COMMENTS:        The LC_URL file will not be created until ~15 min after the trigger.
```

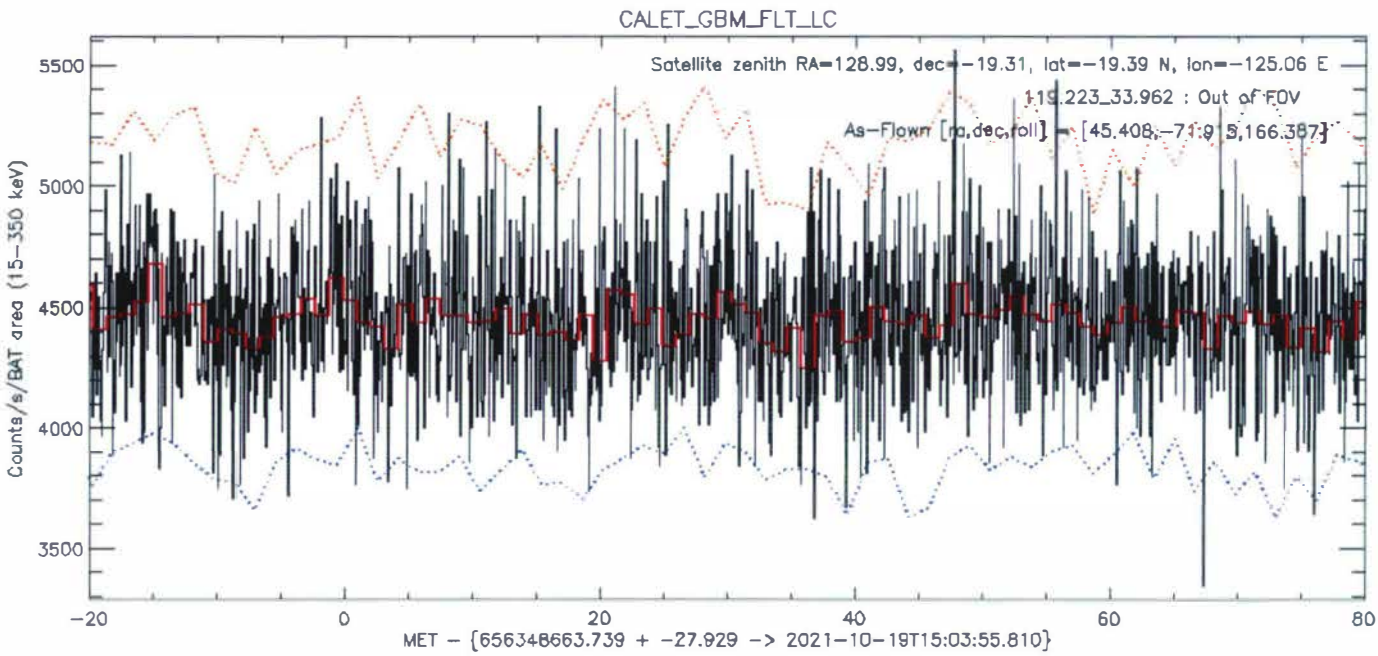
Subject: BAT lightcurve for trigger at 211019_1503
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/19/2021, 5:06 PM
To: palmer+automatic_lightcurve@lanl.gov, aaron.tohu@gmail.com, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov, ipn@ssl.berkeley.edu

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656348663.739 -s 119.223_33.962
Swift Zenith(RA,dec):          128.99, -19.31
Swift Location(lon,lat,alt):  -125.06 E, -19.39 N, 560 km
Time(MET + UTCF -> UT):   656348663.739 + -27.929 -> 2021-10-19T15:03:55.810
YYMMDD_SOD:                    211019_54235.810       DOY=292
Obs Sequence Number:           00039256005
Obs Target Name:               CRATES J0301-7156
Obs Date and Times:            2021-10-19   14:59:34 - 15:08:31
Obs Pointing(ra,dec,roll):     45.408, -71.915, 166.39
119.223_33.962_imageloc (boresight_dist, angle): (117, 167)
119.223_33.962_exposure (cm^2 cos adjusted): 0
119.223_33.962_altitude: 59 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

—/tmp/swift/211019_1503.png—



—Attachments:—

/tmp/swift/211019_1503_bat64ms_ipn	87.0 KB
/tmp/swift/211019_1503.png	18.4 KB

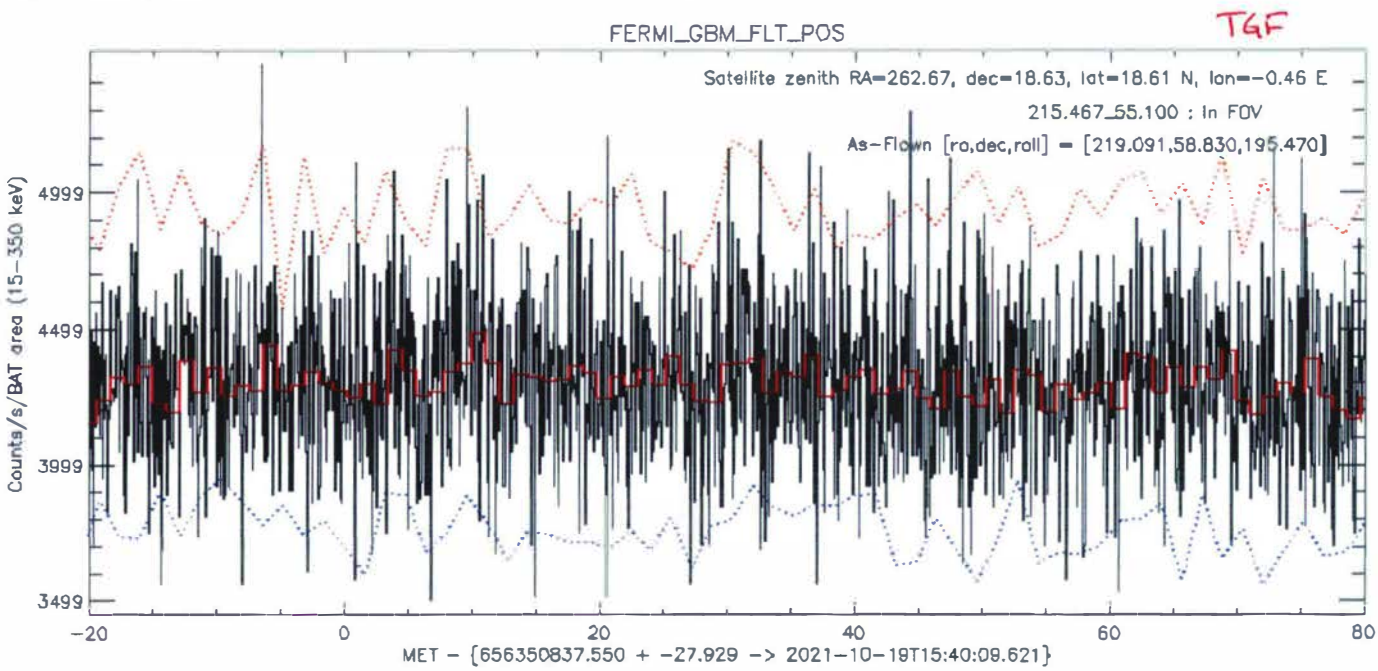
Subject: BAT lightcurve for trigger at 211019_1540
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/19/2021, 4:01 PM
To: aaron.tohu@gmail.com, gbm-burst-advocate@lists.nasa.gov, mkippen@lanl.gov, ipn@ssl.berkeley.edu, bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov, dmopalmer@gmail.com, palmer+automatic_lightcurve@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656350837.550 -s 215.467_55.100
Swift Zenith(RA,dec):          262.67, 18.63
Swift Location(lon,lat,alt):   -0.46 E, 18.61 N, 544 km
Time(MET + UTCF -> UT):    656350837.550 + -27.929 -> 2021-10-19T15:40:09.621
YYMMDD_SOD:                    211019_56409.621       DOY=292
Obs Sequence Number:           00096066194
Obs Target Name:               MRK 817
Obs Date and Times:            2021-10-19   15:36:34 - 15:53:29
Obs Pointing(ra,dec,roll):     219.091, 58.830, 195.47
215.467_55.100_imageloc (boresight_dist, angle): (4, -76)
215.467_55.100_exposure (cm^2 cos adjusted): 4352
215.467_55.100_altitude: 62 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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—/tmp/swift/211019_1540.png—



—Attachments:

/tmp/swift/211019_1540.png	19.4 KB
/tmp/swift/211019_1540_bat64ms_ipn	87.0 KB

B

Subject: GCN/CALET_GBM_FLT_LIGHTCURVE
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
Date: 10/19/2021, 9:39 AM
To: khurley@ssl.berkeley.edu

```
TITLE:           GCN/CALET NOTICE
NOTICE_DATE:     Tue 19 Oct 21 16:39:16 UT
NOTICE_TYPE:     CALET GBM Flight Lightcurve
POINT_RA:        124.34d {+08h 17m 21s} (J2000),
POINT_DEC:       +37.68d {+37d 40' 51"} (J2000),
TRIGGER_NUM:     1318696706
TRIGGER_DATE:    19506 TJD;   292 DOY;   21/10/19
TRIGGER_TIME:    59902.61 SOD {16:38:22.61} UT
TRIGGER_DET:     0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE:    9.30 [sigma]
FOREGND_DUR:     4.00 [sec]
BACKGND_DUR1:    16.00 [sec]
ENERGY_BAND:     40-230 [keV]
SC_LON_LAT:      206.69,37.61 [deg]
LC_URL:          http://cgbm.calet.jp/cgbm_trigger/flight//1318696706/index.html
COMMENTS:        CALET-GBM Flight Lightcurve.
COMMENTS:        The LC_URL file will not be created until ~15 min after the trigger.
```

13

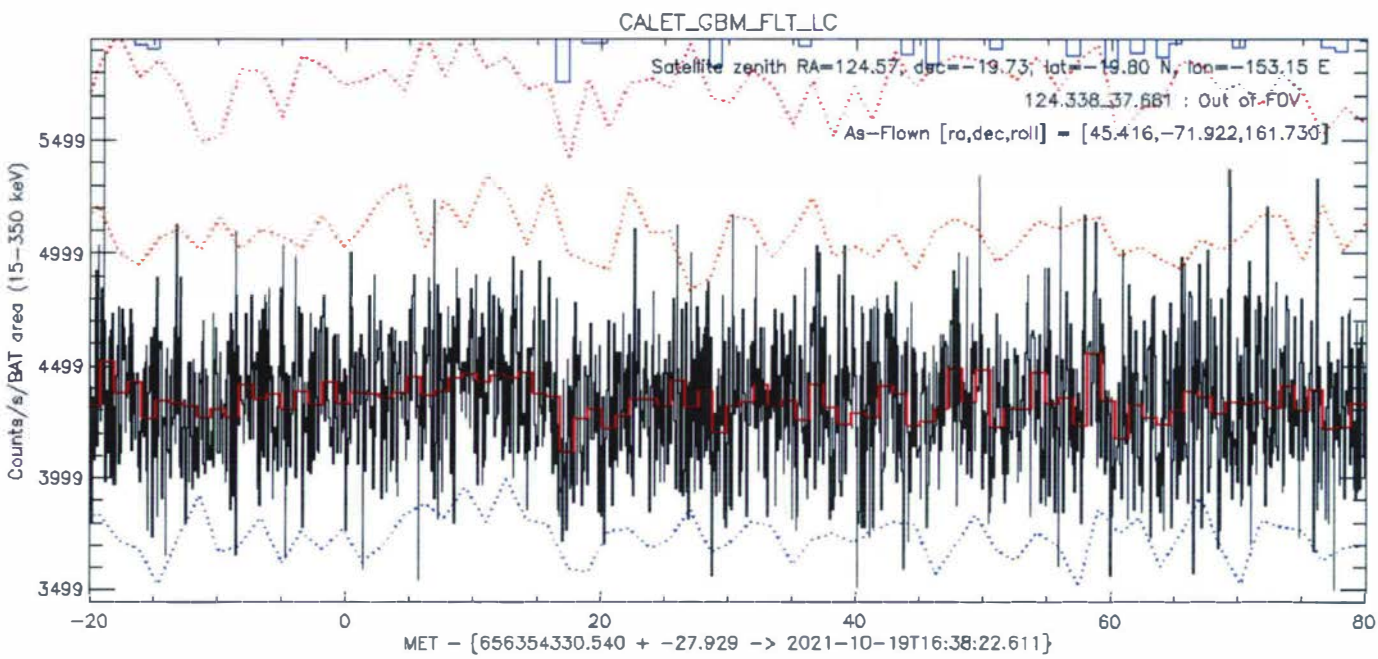
Subject: BAT lightcurve for trigger at 211019_1638
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/19/2021, 5:07 PM
To: mkippen@lanl.gov, vestrand@lanl.gov, gbm-burst-advocate@lists.nasa.gov, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, aaron.tohu@gmail.com, palmer+automatic_lightcurve@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656354330.540 -s 124.338_37.681
Swift Zenith(RA,dec):          124.57, -19.73
Swift Location(lon,lat,alt):  -153.15 E, -19.80 N, 560 km
Time(MET + UTCF -> UT):    656354330.540 + -27.929 -> 2021-10-19T16:38:22.611
YYMMDD_SOD:                    211019_59902.611       DOY=292
Obs Sequence Number:           00039256005
Obs Target Name:               CRATES J0301-7156
Obs Date and Times:            2021-10-19   16:25:33 - 16:44:32
Obs Pointing(ra,dec,roll):     45.416, -71.922, 161.73
124.338_37.681_imageloc (boresight_dist, angle): (122, 175)
124.338_37.681_exposure (cm^2 cos adjusted): 0
124.338_37.681_altitude: 56 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

—/tmp/swift/211019_1638.png



—Attachments:

/tmp/swift/211019_1638.png	20.1 KB
/tmp/swift/211019_1638_bat64ms_ipn	87.0 KB

B

Subject: Re: BAT lightcurve for trigger at 211019_1638
From: Dmitry Svinkin <svinkin@mail.ioffe.ru>
Date: 10/21/2021, 6:16 AM
To: IPN <ipn@ssl.berkeley.edu>

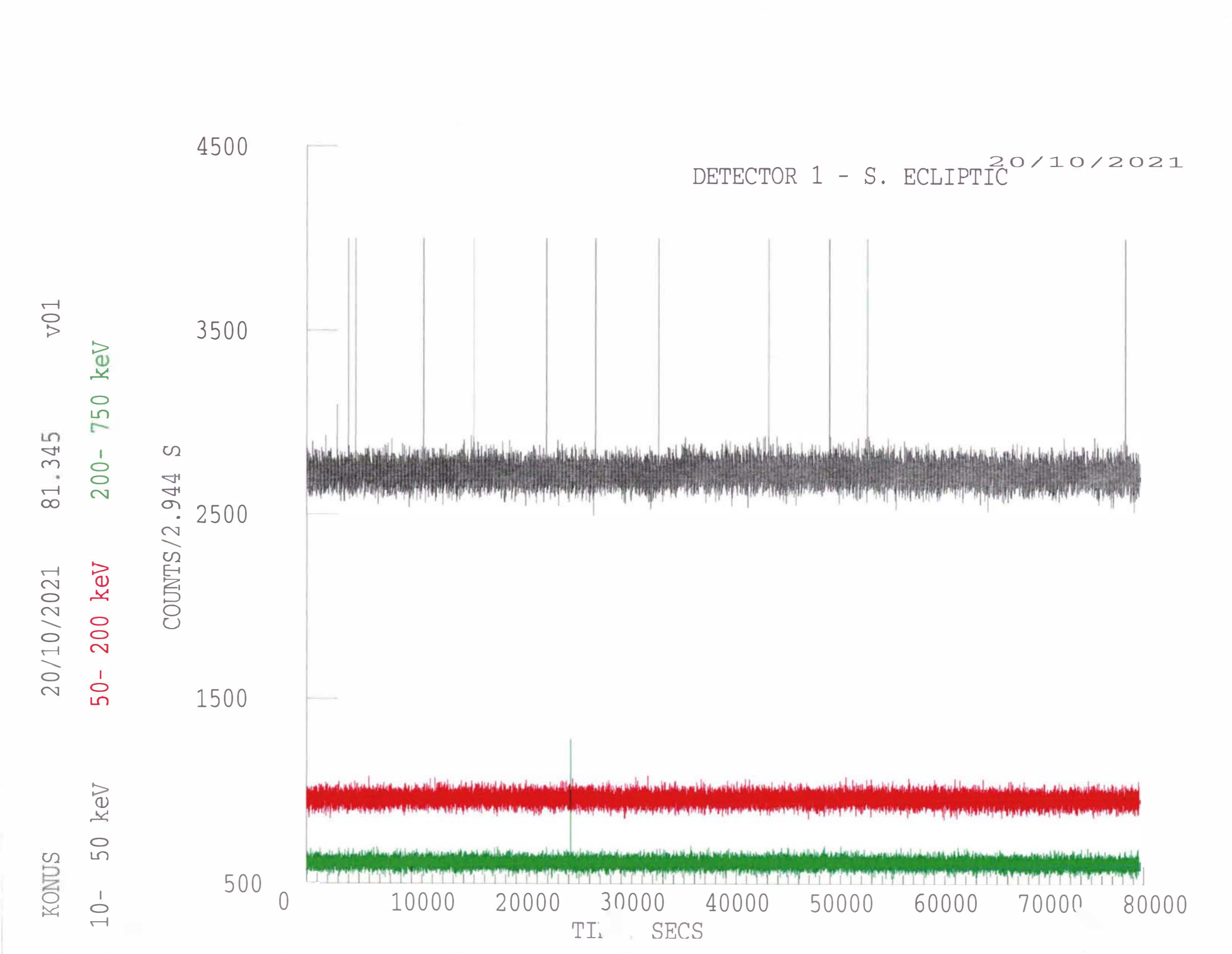
Dear Aaron,

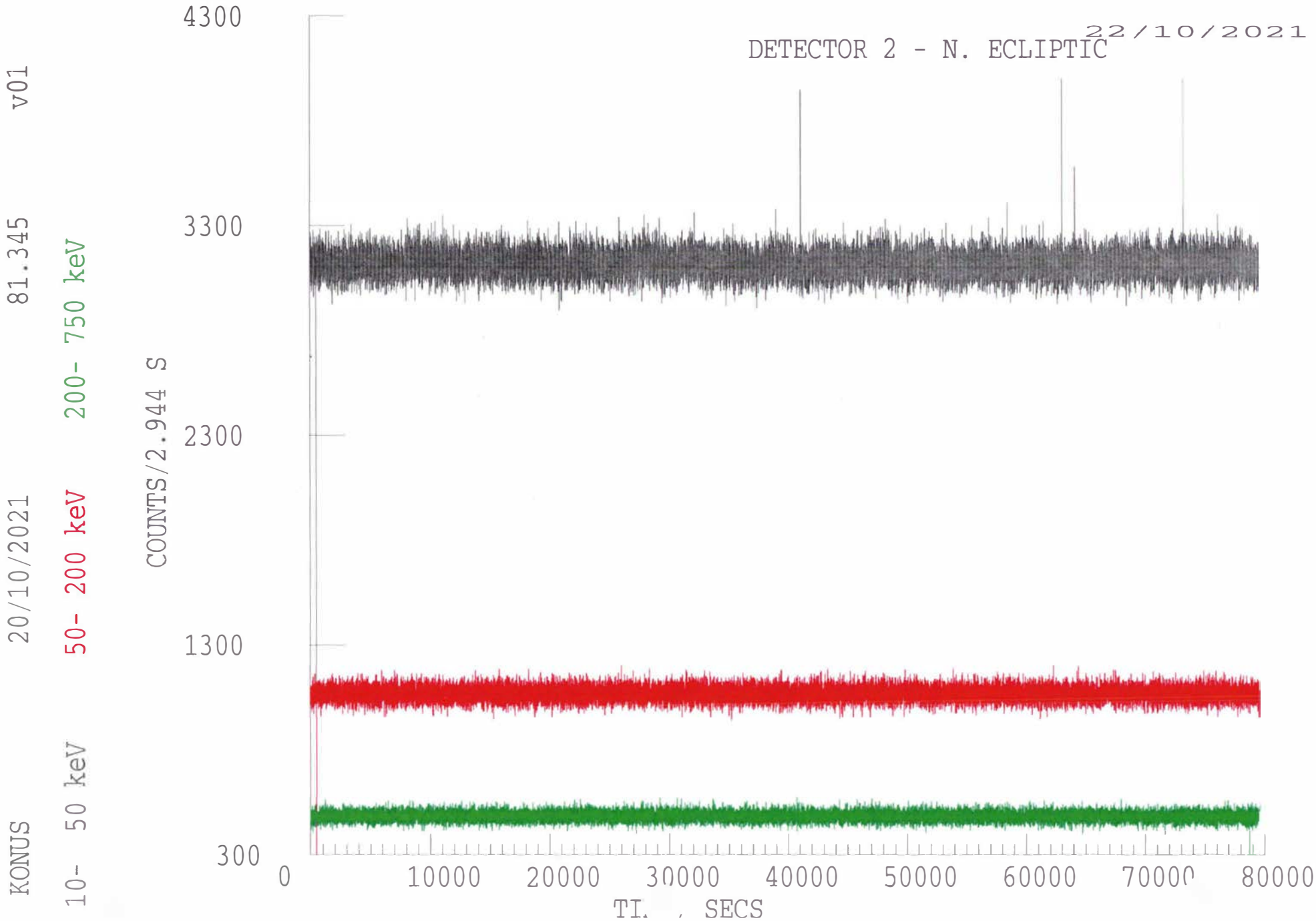
Konus saw nothing significant around this time.

Dmitry

On 20.10.2021 20:52, Aaron Tohuvavohu wrote:

> Dear IPN,
> does anybody else see this burst? BAT GUANO finds evidence for a weak long burst.
>
> On Tue, Oct 19, 2021 at 8:07 PM <palmer+automatic lightcurve@lanl.gov <mailto:palmer%2Bautomatic_lightcurve@lanl.gov>> wrote:
>
>
>
>
> ******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******
>
>
> % /Users/palmer/anaconda3/envs/stable/bin/swinfo -o 656354330.540
> -s 124.338_37.681
> Swift Zenith(RA,dec): 124.57, -19.73
> Swift Location(lon,lat,alt): -153.15 E, -19.80 N, 560 km
> Time(MET + UTCF -> UT): 656354330.540 + -27.929 ->
> 2021-10-19T16:38:22.611
> YYMMDD_SOD: 211019_59902.611 DOY=292
> Obs Sequence Number: 00039256005
> Obs Target Name: CRATES J0301-7156
> Obs Date and Times: 2021-10-19 16:25:33 - 16:44:32
> Obs Pointing(ra,dec,roll): 45.416, -71.922, 161.73
> 124.338_37.681_imageloc (boresight_dist, angle): (122, 175)
> 124.338_37.681_exposure (cm^2 cos adjusted): 0
> 124.338_37.681_altitude: 56 (up)
>
>
> -- David Palmer palmer@lanl.gov <mailto:palmer@lanl.gov> (505)665-6863 (voice) (505)665-4414 (fax)
> TSPA -- Automatically generated plot of publicly-available
> scientific data
>
> --
> You received this message because you are subscribed to the Google Groups "ipn" group.
> To unsubscribe from this group and stop receiving emails from it, send an email to ipn+unsubscribe@ssl.berkeley.edu <mailto:ipn+unsubscribe@ssl.berkeley.edu>.


KONUS 20/10/2021 81.345 v01
10- 50 keV 50- 200 keV 200- 750 keV
DETECTOR 1 - S. ECLIPTIC 20/10/2021
COUNTS/2.944 S
4500
3500
2500
1500
500
0
10000
20000
30000
40000
50000
60000
70000
80000
TI SECS


KONUS
20/10/2021
81.345
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
22/10/2021
COUNTS/2.944 S
4300
3300
2300
1300
300
0
10000
20000
30000
40000
50000
60000
70000
80000
TI. , SECS

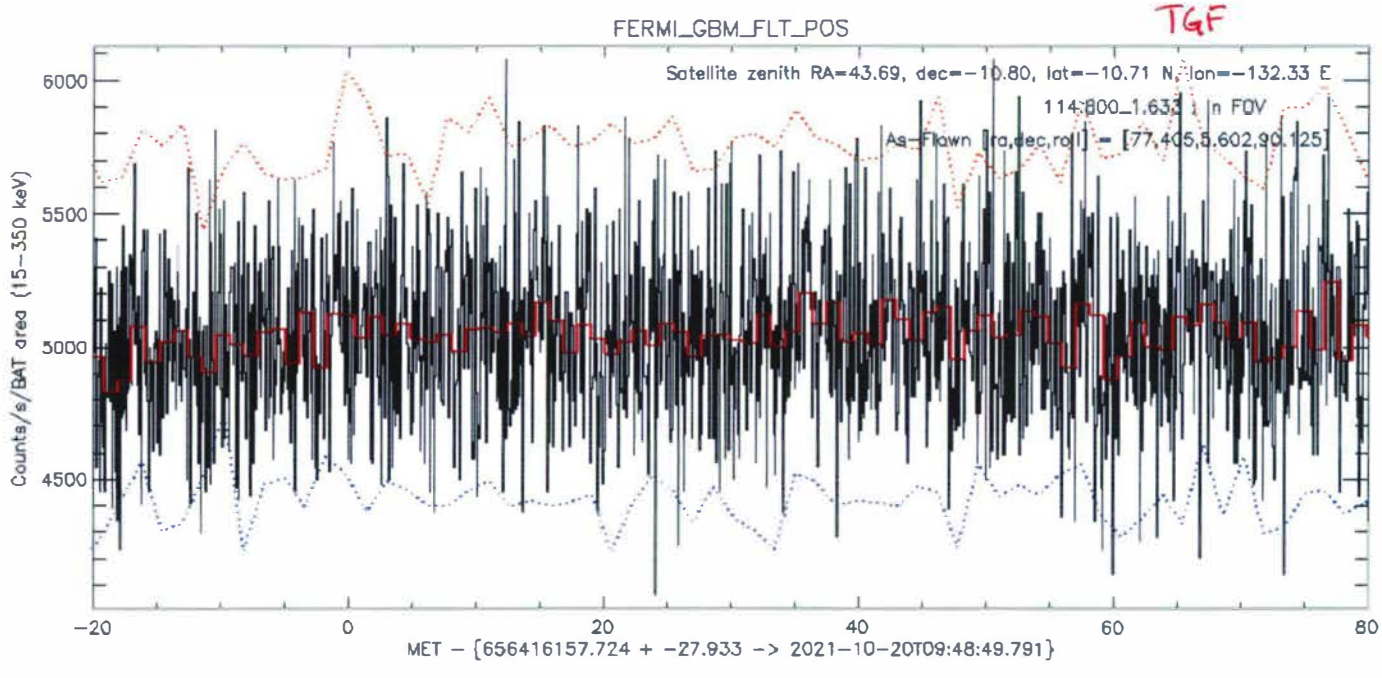
Subject: BAT lightcurve for trigger at 211020_0948
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/20/2021, 6:43 AM
To: ipn@ssl.berkeley.edu, aaron.tohu@gmail.com, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov, gbm-burst-advocate@lists.nasa.gov, palmer+automatic_lightcurve@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656416157.724 -s 114.800_1.633
Swift Zenith(RA,dec):          43.69, -10.80
Swift Location(lon,lat,alt):  -132.33 E, -10.71 N, 548 km
Time(MET + UTCF -> UT):    656416157.724 + -27.933 -> 2021-10-20T09:48:49.791
YYMMDD_SOD:                    211020_35329.791       DOY=293
Obs Sequence Number:           00014870001
Obs Target Name:               TUVO-21yog
Obs Date and Times:            2021-10-20   09:47:34 - 10:00:13
Obs Pointing(ra,dec,roll):     77.405, 5.602, 90.12
114.800_1.633_imageloc (boresight_dist, angle): (38, -85)
114.800_1.633_exposure (cm^2 cos adjusted): 978
114.800_1.633_altitude: 41 (up)
```

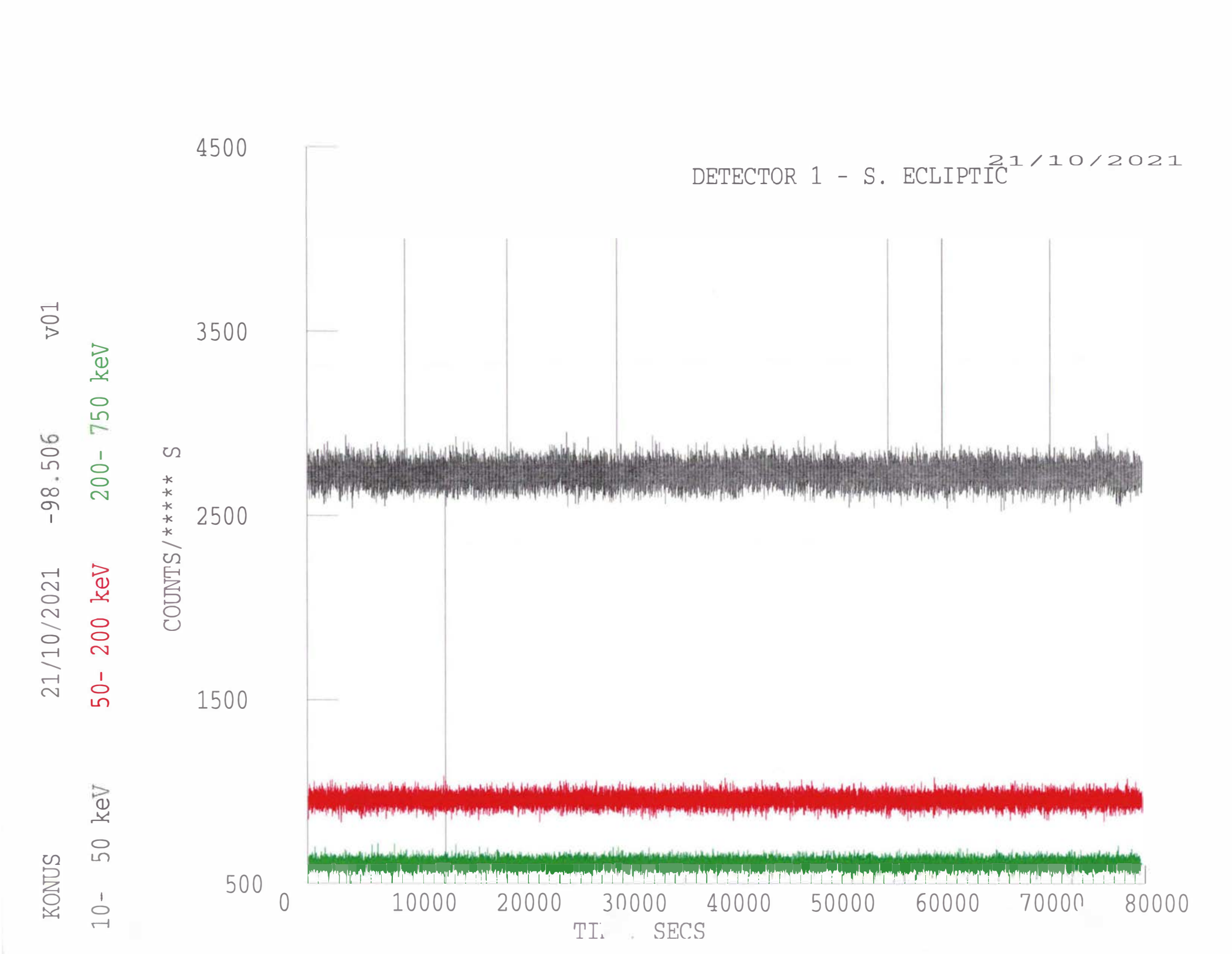
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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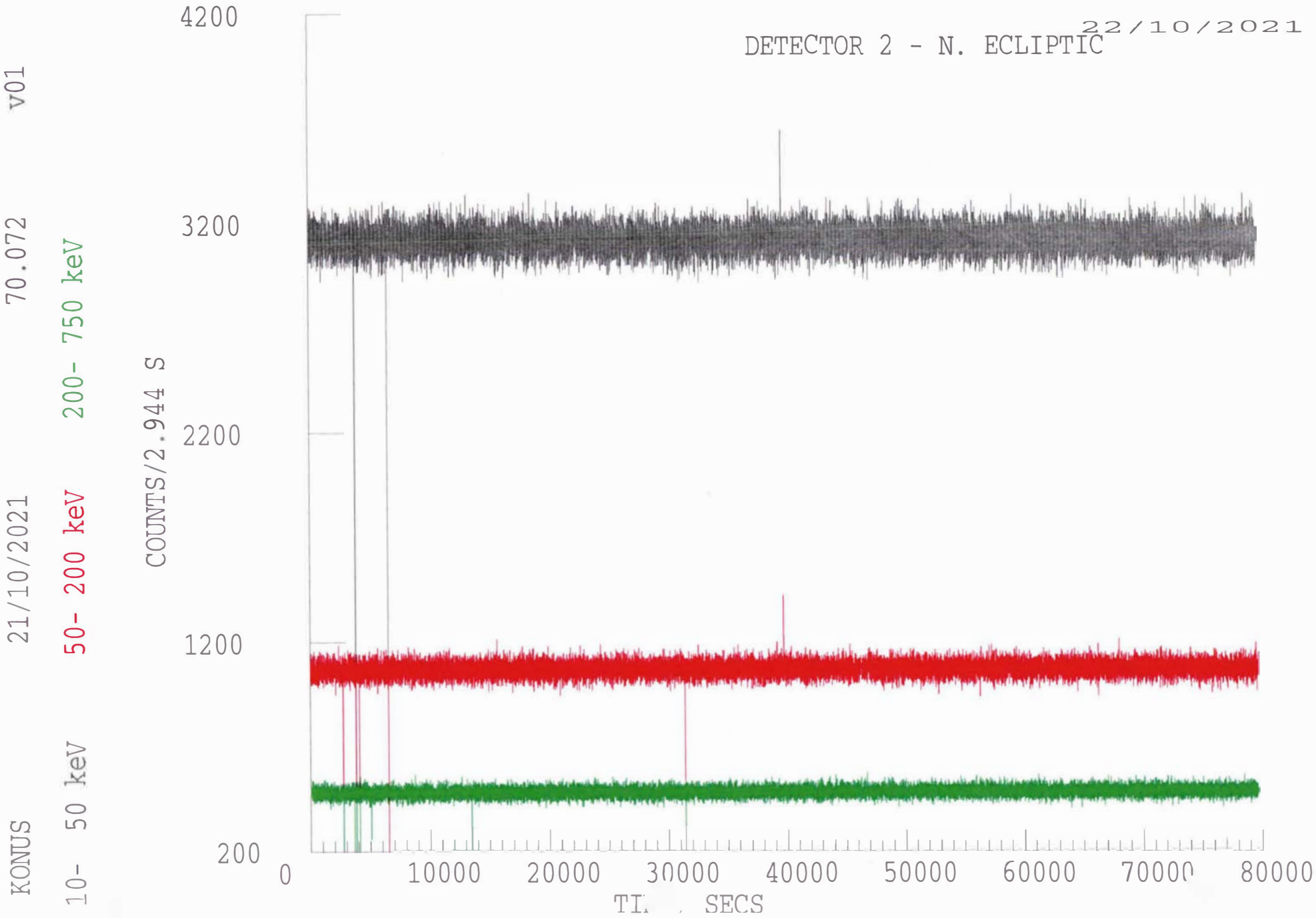
/tmp/swift/211020_0948.png

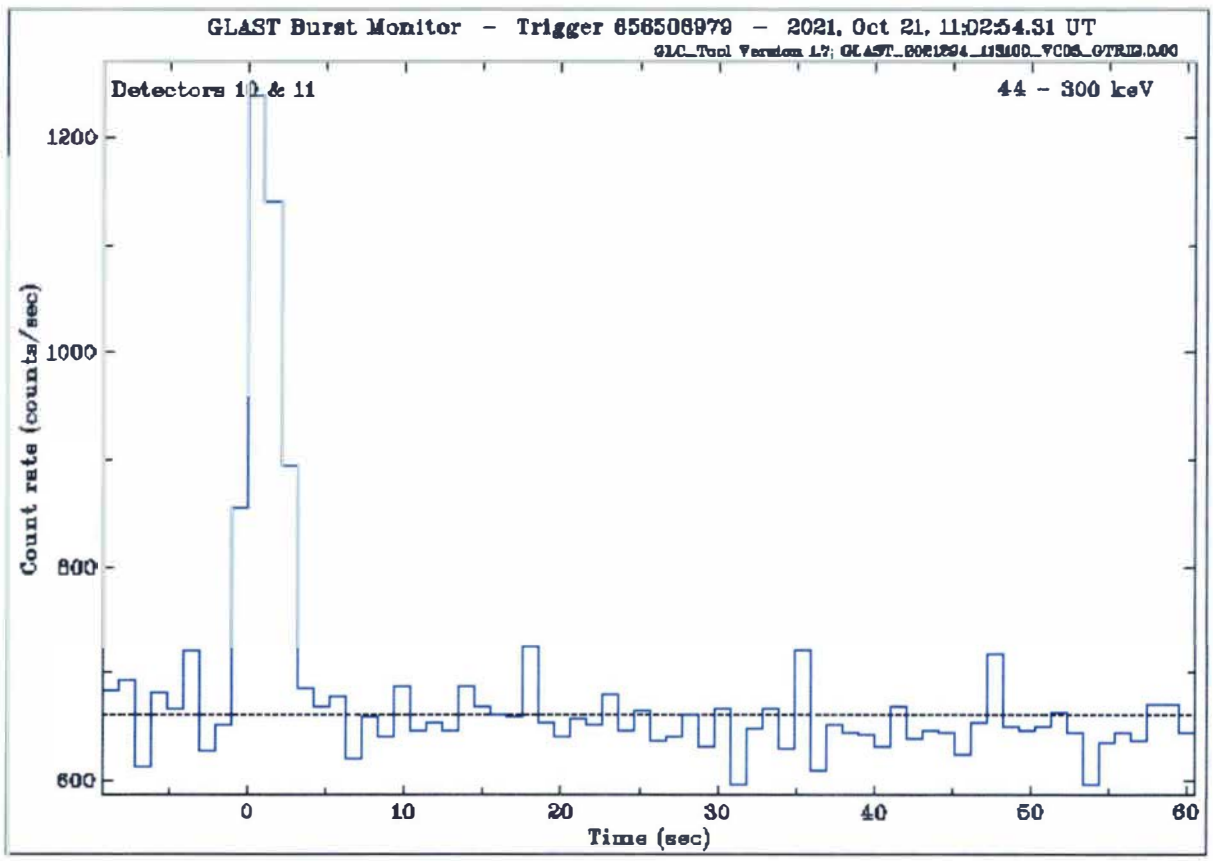


Attachments:

/tmp/swift/211020_0948.png	18.8 KB
/tmp/swift/211020_0948_bat64ms_ipn	87.1 KB


DETECTOR 1 - S. ECLIPTIC
21/10/2021
KONUS 21/10/2021 -98.506 v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/***** S
4500
3500
2500
1500
500
0
10000
20000
30000
40000
50000
60000
70000
80000
TI SECS


KONUS
21/10/2021
70.072
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
80000
SECS
DETECTOR 2 - N. ECLIPTIC
22/10/2021


GLAST Burst Monitor - Trigger 656506979 - 2021, Oct 21, 11:02:54.31 UT
GLC_Tool Version 1.7; GLAST_20211294_113100_VC06_GTRID.000
Detectors 10 & 11
44 - 300 keV
Count rate (counts/sec)
1200
1000
800
600
0
10
20
30
40
50
60
Time (sec)

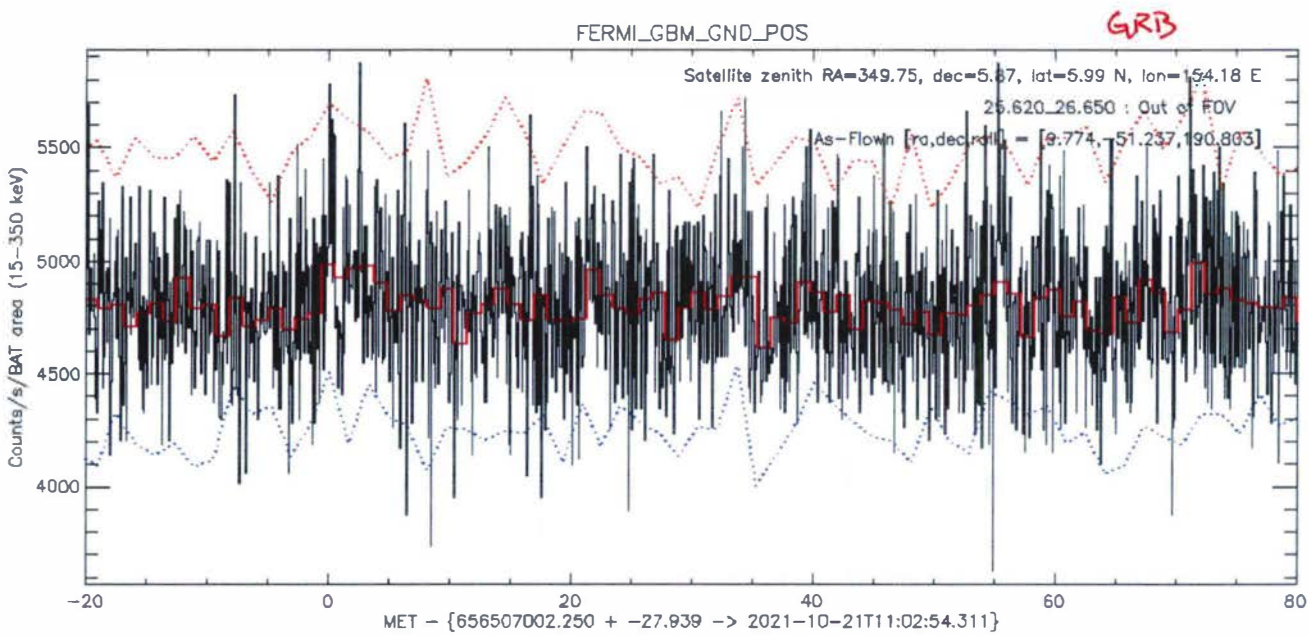
Subject: BAT lightcurve for trigger at 211021_1102
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/21/2021, 9:29 AM
To: dmopalmer@gmail.com, ipn@ssl.berkeley.edu, palmer+automatic_lightcurve@lanl.gov, mkippen@lanl.gov, vestrand@lanl.gov, aaron.tohu@gmail.com, gbm-burst-advocate@lists.nasa.gov, bat_team@bigbang.gsfc.nasa.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656507002.250 -s 25.620_26.650
Swift Zenith(RA,dec):          349.75, 5.87
Swift Location(lon,lat,alt):   154.18 E, 5.99 N, 540 km
Time(MET + UTCF -> UT):    656507002.250 + -27.939 -> 2021-10-21T11:02:54.311
YYMMDD_SOD:                    211021_39774.311       DOY=294
Obs Sequence Number:           00010905137
Obs Target Name:               WPVS 007
Obs Date and Times:            2021-10-21   10:58:34 - 11:15:33
Obs Pointing(ra,dec,roll):     9.774, -51.237, 190.80
25.620_26.650_imageloc (boresight_dist, angle): (79, 94)
25.620_26.650_exposure (cm^2 cos adjusted): 0
25.620_26.650_altitude: 73 (up)
```

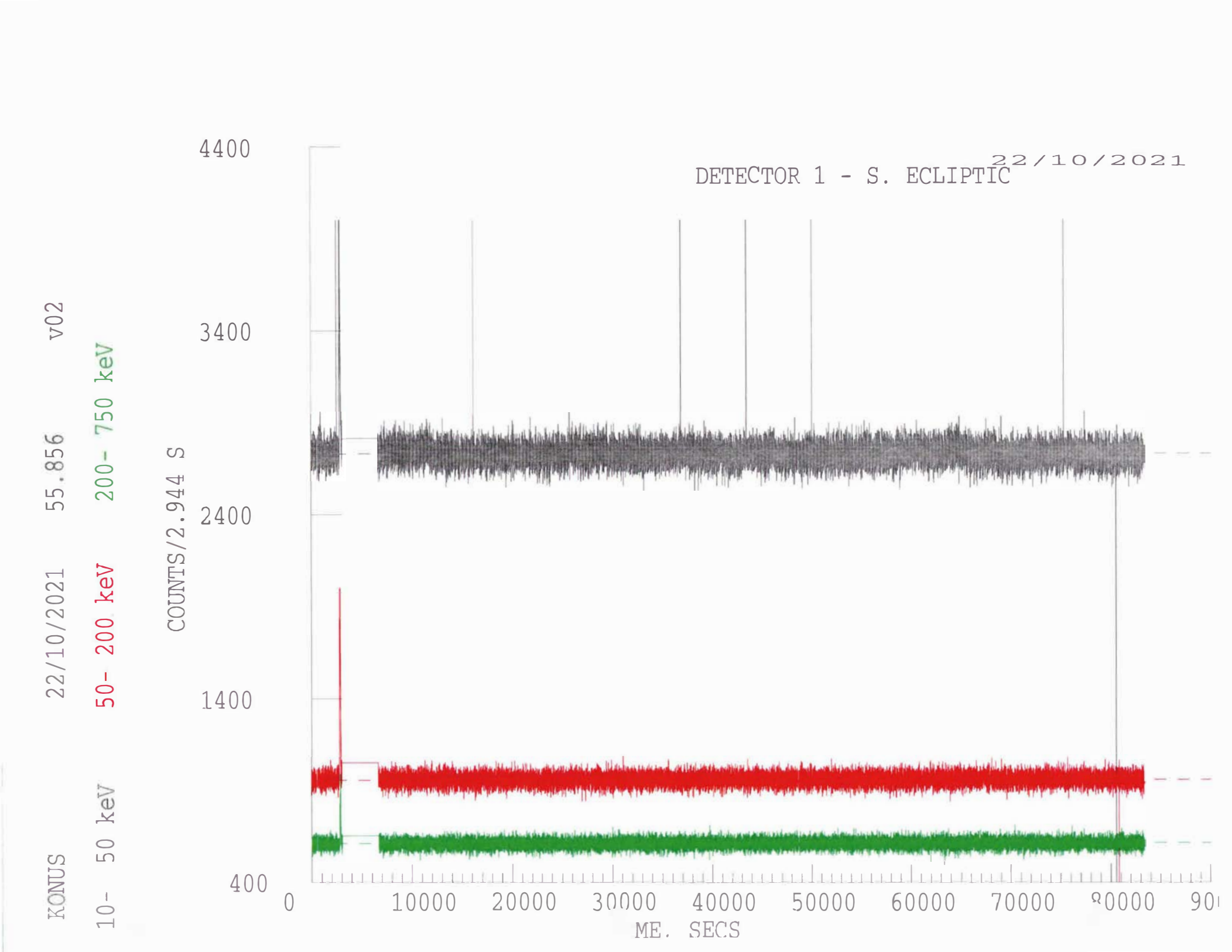
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

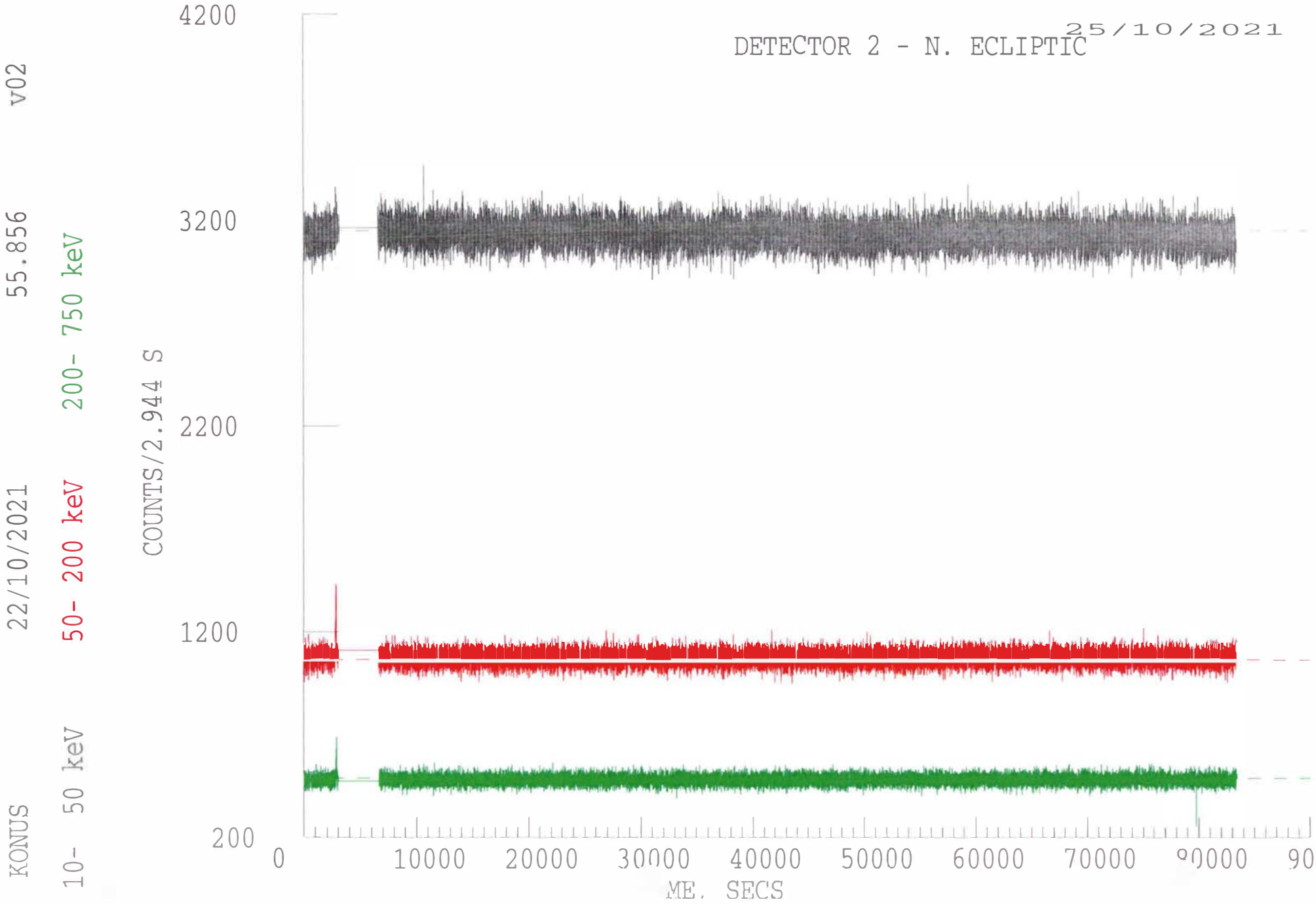
—/tmp/swift/211021_1102.png—

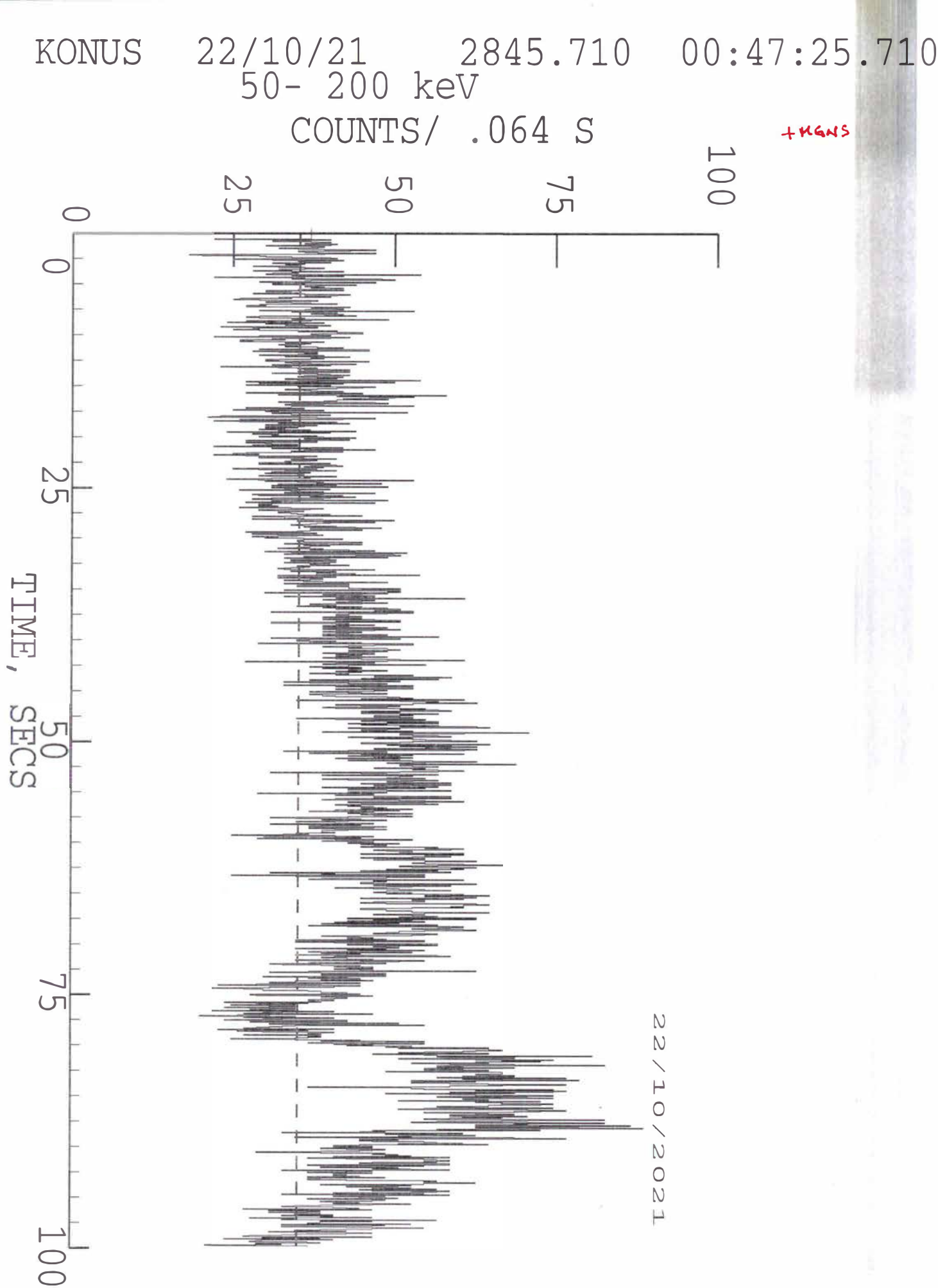


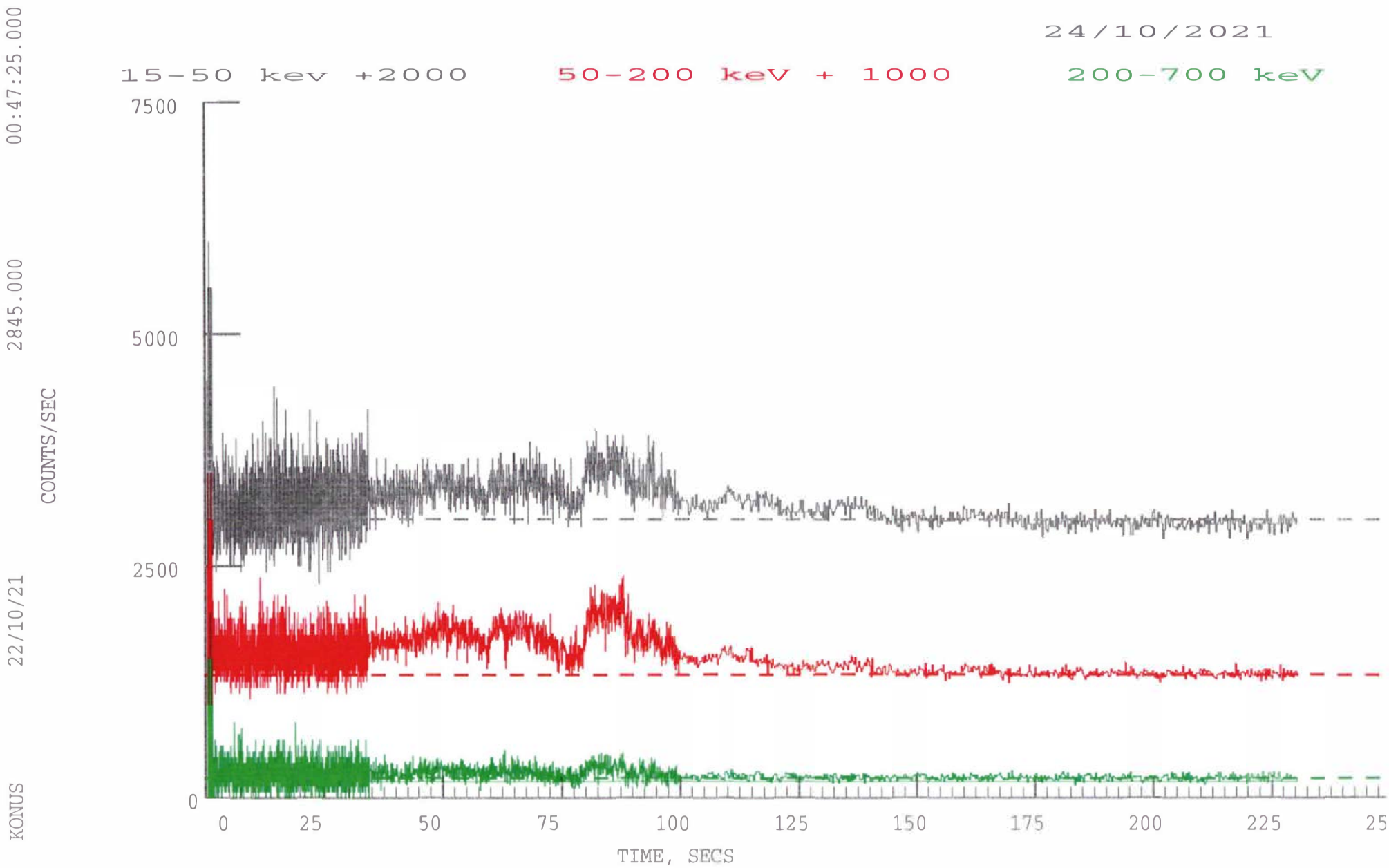
—Attachments:—

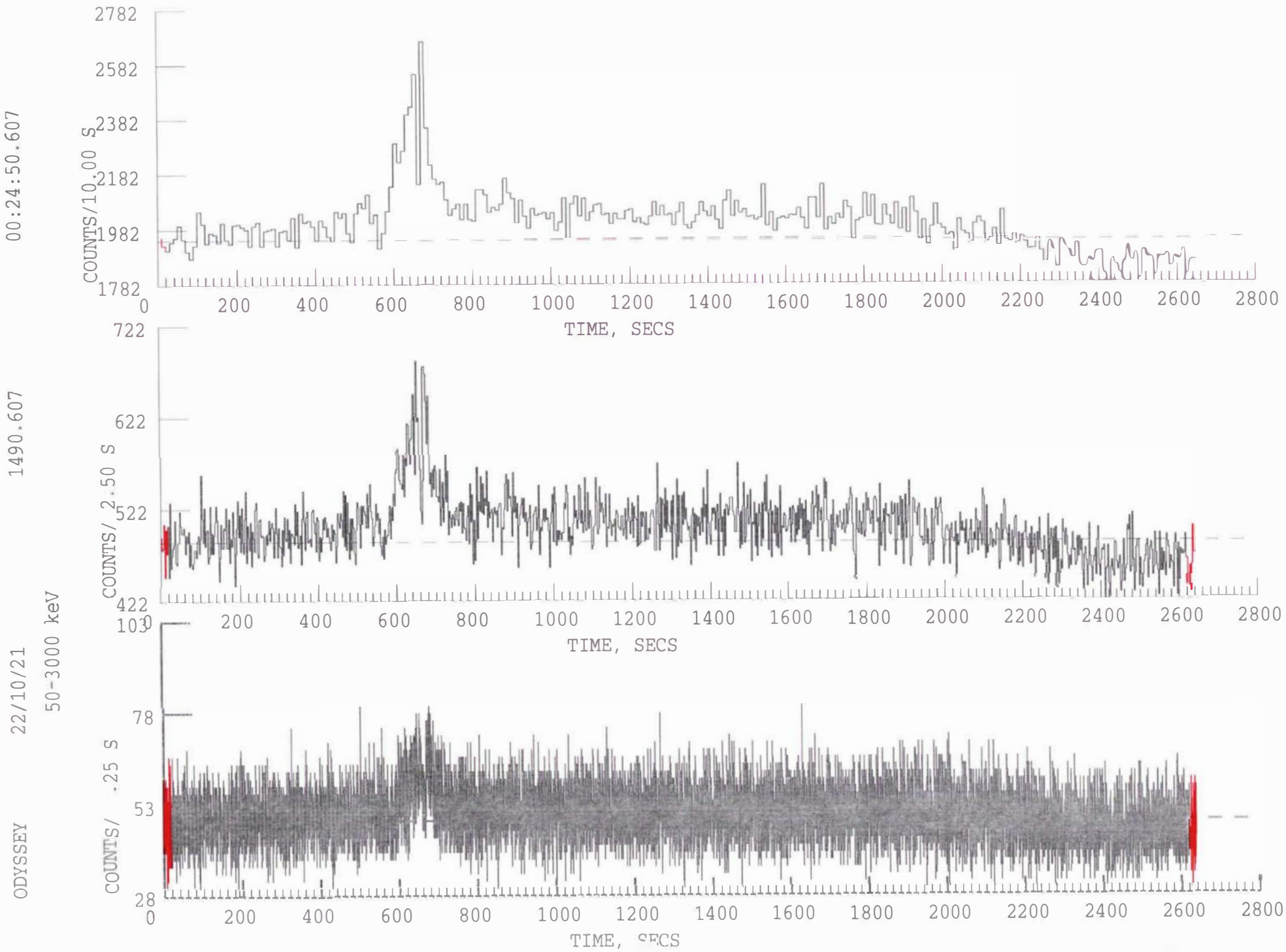
/tmp/swift/211021_1102_bat64ms_ipn	87.1 KB
/tmp/swift/211021_1102.png	19.1 KB


DETECTOR 1 - S. ECLIPTIC
22/10/2021
KONUS 22/10/2021 55.856 v02
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4400
3400
2400
1400
400
0
10000
20000
30000
40000
50000
60000
70000
80000
ME. SECS


KONUS
10- 50 keV
50- 200 keV
200- 750 keV
22/10/2021
55.856
v02
DETECTOR 2 - N. ECLIPTIC
25/10/2021
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
ME. SECS


KONUS 22/10/21 2845.710 00:47:25.710
50- 200 keV
COUNTS/ .064 S
+KGNS
0
25
50
75
100
TIME, SECS
22/10/2021


24/10/2021
15-50 kev +2000
50-200 keV + 1000
200-700 keV
7500
5000
2500
0
COUNTS/SEC
0
25
50
75
100
125
150
175
200
225
25
TIME, SECS
KONUS
22/10/21
2845.000
00:47:25.000

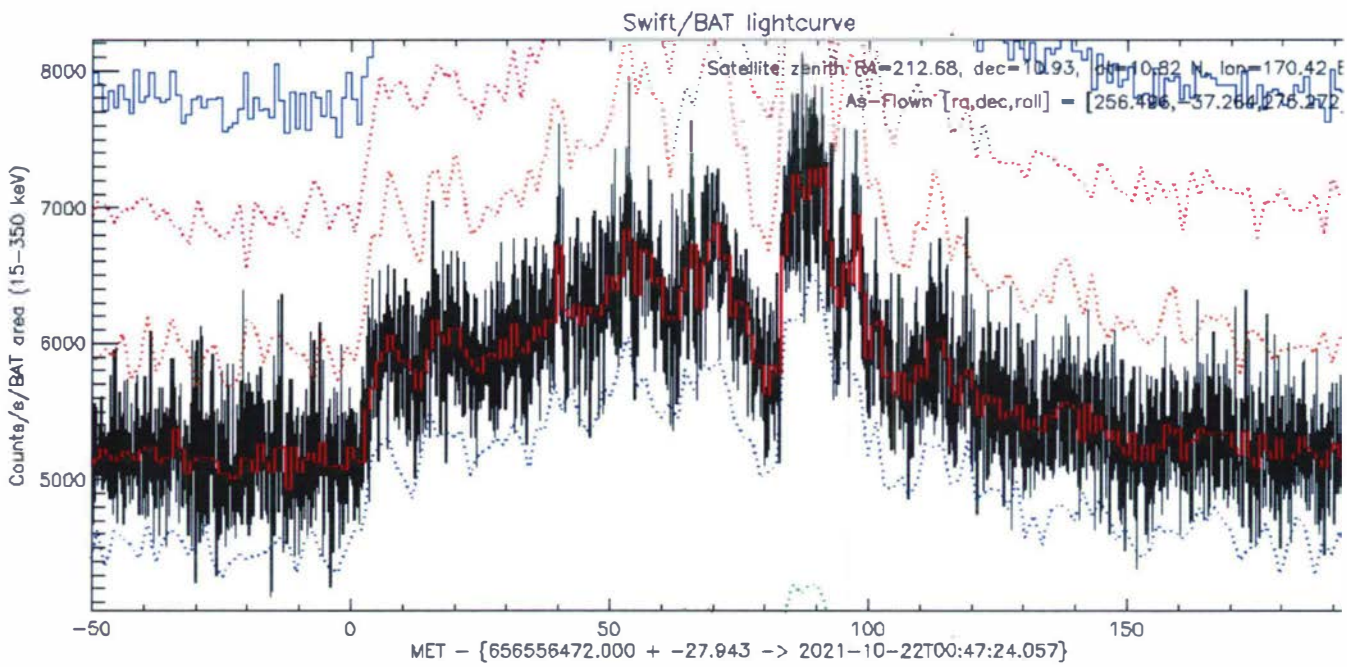

00:24:50.607
1490.607
22/10/21
50-3000 keV
ODYSSEY
2782
2582
2382
2182
1982
1782
COUNTS/10.00 S
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
TIME, SECS
722
622
522
422
103
COUNTS/ 2.50 S
TIME, SECS
78
53
28
COUNTS/ .25 S
TIME, SECS

Subject: Re: [EXTERNAL] BAT lightcurve for trigger at 211022_0047
From: "'Palmer, David' via ipn" <ipn@ssl.berkeley.edu>
Date: 10/22/2021, 7:47 AM
To: IPN <ipn@ssl.berkeley.edu>, "yizhao@ihep.ac.cn" <yizhao@ihep.ac.cn>
CC: BAT TEAM <bat_team@bigbang.gsfc.nasa.gov>, Aaron Tohuvavohu <aaron.tohu@gmail.com>, David Palmer <dmopalmer@gmail.com>, "Kippen, Marc" <mkippen@lanl.gov>, "gbm-burst-advocate@lists.nasa.gov" <gbm-burst-advocate@lists.nasa.gov>, "Vestrand, W" <vestrand@lanl.gov>

Here is a more complete lightcurve of this burst, also reported by GECAM in GCN 30955.

The GECAM position is out of the FOV (64 degrees from boresight) but above the horizon.

% swinfo 656556550 -o -s 164.5_-50
Swift Zenith(RA,dec): 217.46, 12.36
Swift Location(lon,lat,alt): 174.87 E, 12.26 N, 552 km
Time(MET + UTCF -> UT): 656556550.000 + -27.943 -> 2021-10-22T00:48:42.057
YYMMDD_SOD: 211022_02922.057 DOY=295
Obs Sequence Number: 00014879002
Obs Target Name: AT 2021abvg
Obs Date and Times: 2021-10-22 00:35:34 - 00:59:29
Obs Pointing(ra,dec,roll): 256.496, -37.264, 275.27
164.5_-50_imageloc (boresight_dist, angle): (64, -139)
164.5_-50_exposure (cm^2 cos adjusted): 0
164.5_-50_altitude: 35 (up)



--
David Palmer palmer@lanl.gov (505) 665-6863
Socially Distant: Work-From-Home (505) 695-9190

On Oct 22, 2021, at 3:47 AM, palmer+automatic_lightcurve@lanl.gov wrote:

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

% /Users/palmer/anaconda3/envs/stable/bin/swinfo -o 2021-10-22T00:47:25.710
Swift Zenith(RA,dec): 212.78, 10.96
Swift Location(lon,lat,alt): 170.51 E, 10.85 N, 552 km
Time(MET + UTCF -> UT): 656556473.653 + -27.943 -> 2021-10-22T00:47:25.710
YYMMDD_SOD: 211022_02845.710 DOY=295
Obs Sequence Number: 00014879002
Obs Target Name: AT 2021abvg
Obs Date and Times: 2021-10-22 00:35:34 - 00:59:29
Obs Pointing(ra,dec,roll): 256.496, -37.264, 275.27

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

<_tmp_swift_211022_0047_bat64ms_ipn><_tmp_swift_211022_0047.png>

Attachments

211022_0047_bat64ms_ipn 229 KB

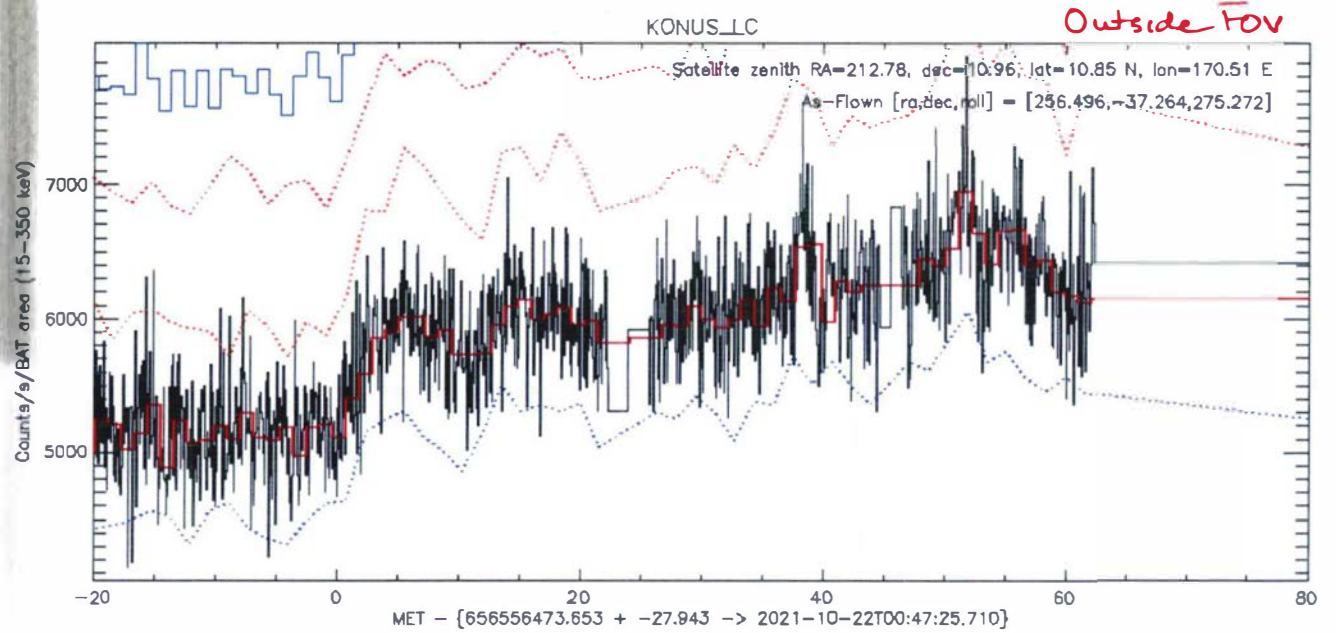
Subject: BAT lightcurve for trigger at 211022_0047
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/22/2021, 2:47 AM
To: palmer+automatic_lightcurve@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, aaron.tohu@gmail.com, dmopalmer@gmail.com, mkippen@lanl.gov, ipn@ssl.berkeley.edu, gbm-burst-advocate@lists.nasa.gov, vestrand@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-22T00:47:25.710
Swift Zenith(RA,dec):          212.78, 10.96
Swift Location(lon,lat,alt):  170.51 E, 10.85 N, 552 km
Time(MET + UTCF -> UT):   656556473.653 + -27.943 -> 2021-10-22T00:47:25.710
YYMMDD_SOD:                    211022_02845.710       DOY=295
Obs Sequence Number:           00014879002
Obs Target Name:               AT 2021abvg
Obs Date and Times:            2021-10-22   00:35:34 - 00:59:29
Obs Pointing(ra,dec,roll):     256.496, -37.264, 275.27
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211022_0047.png



Attachments:

/tmp/swift/211022_0047_bat64ms_ipn	69.4 KB
/tmp/swift/211022_0047.png	17.7 KB

Subject: GRB 211022A: AstroSat CZTI detection
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Date: 10/24/2021, 12:46 AM
To: khurley@ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 30968
SUBJECT: GRB 211022A: AstroSat CZTI detection
DATE: 21/10/24 07:45:11 GMT
FROM: Gaurav Waratkar at IIT,Bombay <gauravwaratkar@iitb.ac.in>

V. Prasad (IUCAA), P. Sawant (IUCAA), G. Waratkar (IITB), A. Vibhute (IUCAA), V. Bhalerao (IITB), D. Bhattacharya (IUCAA), A. R. Rao (IUCAA/TIFR), and S. Vadawale (PRL) report on behalf of the AstroSat CZTI collaboration:

Analysis of AstroSat CZTI data with the CIFT framework (Sharma et al., 2021, JApA, 42, 73) showed detection of a long GRB 211022A, which was also detected by GECAM (Zhao et al., GCN 30955).

The source was clearly detected in the 20-200 keV energy range. The light curve showed multiple peaks of emission with the strongest peak at 2021-10-22 00:48:52.0 UT. The measured peak count rate associated with the burst is 166 (+14, -13) cts/s above the background in the combined data of four quadrants, with a total of 11186 (+925, -981) cts. The local mean background count rate was 598 (+1, -1) cts/s. Using cumulative rates, we measure a T90 of 92 (+63, -9) s.

It was also clearly detected in the CsI anticoincidence (Veto) detector in the 100-500 keV energy range. The light curve showed multiple peaks of emission with the strongest peak at 2021-10-22 00:48:54.1 UT. The measured peak count rate is 2130 (+71, -86) cts/s above the background in the combined Veto data of four quadrants, with a total of 159488 (+3241, -5602) cts. The local mean background count rate was 21425 (+3, -91) cts/s. We measure a T90 of 119 (+5, -10) s from the cumulative Veto light curve.

CZTI GRB detections are reported regularly on the payload site at http://astrosat.iucaa.in/czti/?q=grb [1]. CZTI is built by a TIFR-led consortium of institutes across India, including VSSC, ISAC, IUCAA, SAC, and PRL. The Indian Space Research Organisation funded, managed and facilitated the project.

Links:
------
[1] http://astrosat.iucaa.in/czti/?q=grb

Subject: GRB 211022A: GECAM detection
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Date: 10/22/2021, 7:12 AM
To: kevinhurley@berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 30955
SUBJECT: GRB 211022A: GECAM detection
DATE: 21/10/22 14:11:29 GMT
FROM: Zhao Yi at POLAR <yizhao@ihep.ac.cn>

Yi Zhao, S. L. Xiong, S. Xiao, C. Cai, J. J. He, Y. Huang, Z. W. Guo,
C. Y. Li, X. B. Li, J. C. Liu, X. Y. Song, C. W. Wang, P. Wang, S. L. Xie, W. C. Xue,
Q. B. Yi, Y. Q. Zhang, G. Y. Zhao, X. Y. Zhao, C. Zheng, Y. Q. Du, D. Y. Guo,
J. Liang, F. J. Lu, Q. Luo, X. Ma, W. X. Peng, R. Qiao, L. M. Song, J. Wang, H. Wu,
P. Zhang, S. N. Zhang, X. L. Zhang, Z. Zhang, S. J. Zheng (IHEP),
report on behalf of GECAM team:

During the commissioning phase, GECAM-B was triggered in-flight by a
burst, GRB 211022A, at 2021-10-22T00:47:28.100 UTC (denoted as T0),
which was also observed by KONUS/WIND.

Its alert data was promptly downlinked to the ground through the short
message service of BeiDou Navigation Satellite System (BDS). The time
latency of the first BeiDou message relative to the trigger time is about
1 minute.

According to the BDS alert data, this burst mainly consists of multiple
pulses with duration of about 120 s.

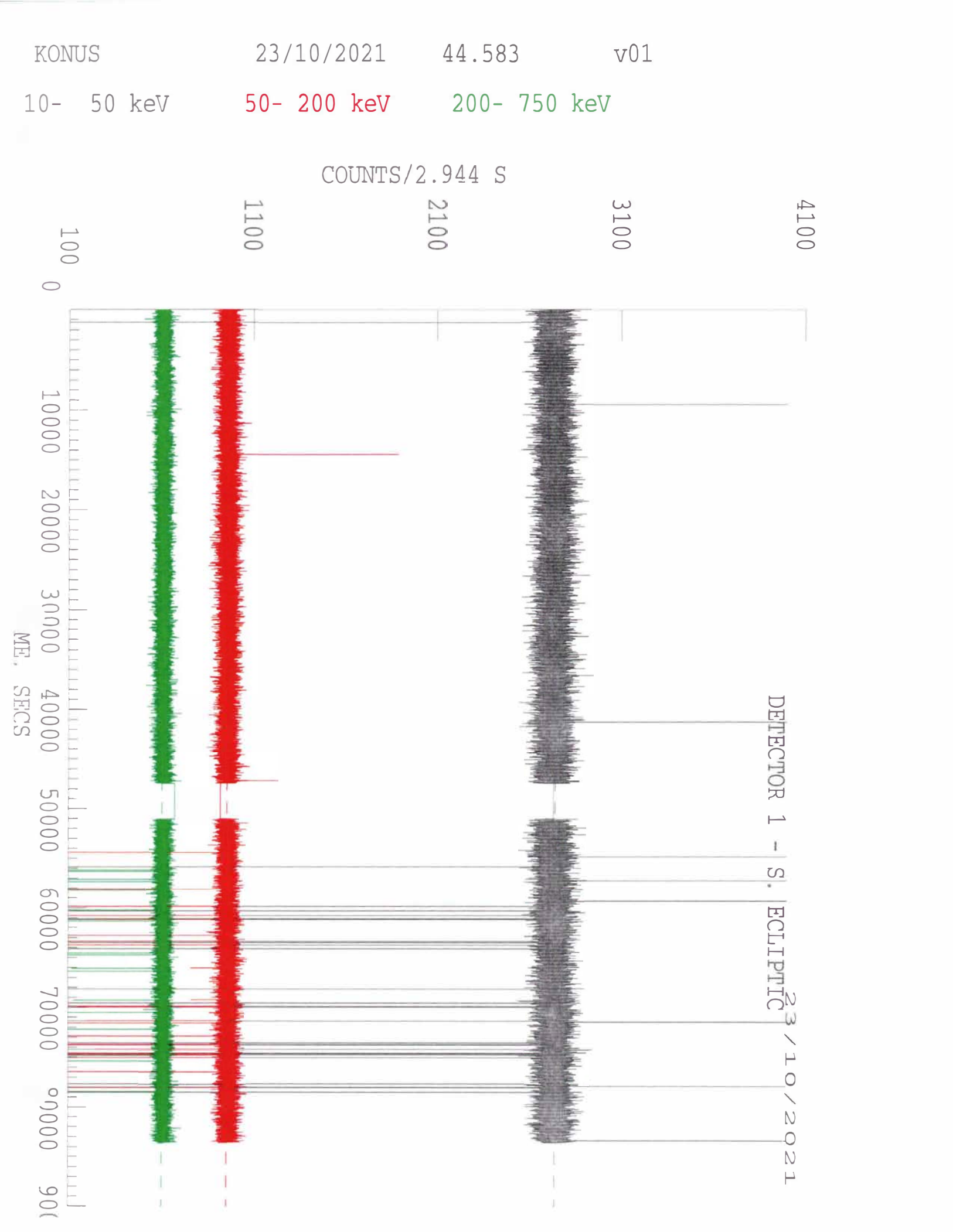
The GECAM light curve could be found here:
http://twiki.ihep.ac.cn/pub/GECAM/GRBList/gecamb_lc_grd_all_combine_88562848.png

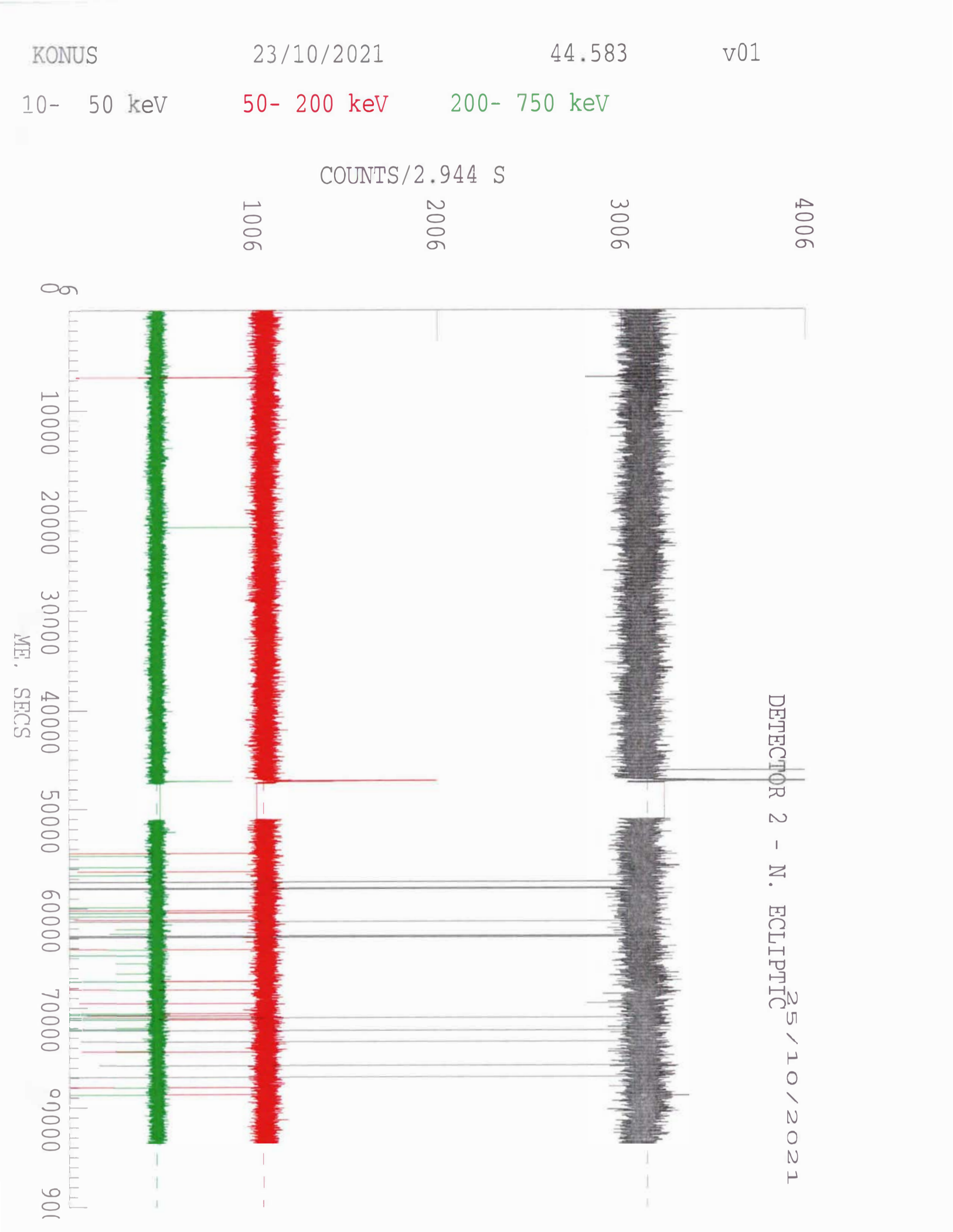
GECAM-B localized this burst to the following position (J2000):
Ra: 164.5 deg
Dec: -50.6 deg
Err: 2.0 deg (1-sigma, statistical only)
The current systematic error of location is estimated to be several degrees
which could be minimized by the ongoing calibration.

The GECAM preliminary location could be found here:
http://twiki.ihep.ac.cn/pub/GECAM/GRBList/gecamb_skymap_bdm_88562848_V01.png

Please note that all GECAM results here are preliminary. The final analysis
will be published in journal papers or GECAM online catalog.

Gravitational wave high-energy Electromagnetic Counterpart All-sky Monitor
(GECAM) mission consists of two small satellites (GECAM-A and GECAM-B) in
Low Earth Orbit (600 km, 29 deg), launched on Dec 10, 2020 (Beijing Time),
which was funded by the Chinese Academy of Sciences (CAS).


KONUS 23/10/2021 44.583 v01
10- 50 keV 50- 200 keV 200- 750 keV
COUNTS/2.944 S
100
1100
2100
3100
4100
0
10000
20000
30000
40000
50000
60000
70000
80000
90000
MET, SECS
DETECTOR 1 - S. ECLIPTIC 23/10/2021


KONUS
23/10/2021
44.583
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
1006
2006
3006
4006
0
10000
20000
30000
40000
50000
60000
70000
80000
90000
MET, SECS
DETECTOR 2 - N. ECLIPTIC
25/10/2021

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Sat Oct 23 02:47:41
Date: Sat, 23 Oct 2021 05:47:38 -0400
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: IceCube-211023A - IceCube observation of a high-energy neutrino candidate track-like event

TITLE: GCN CIRCULAR
NUMBER: 30957
SUBJECT: IceCube-211023A - IceCube observation of a high-energy neutrino candida
DATE: 21/10/23 09:47:02 GMT
FROM: Dr. Massimiliano Lincetto at Ruhr-Universitaet Bochum <lincetto@astro.

The IceCube Collaboration (http://icecube.wisc.edu/) reports:

On 2021/10/23 at 08:31:18.31 UT IceCube detected a track-like event with a moder

After the initial automated alert (https://gcn.gsfc.nasa.gov/notices_amon_g_b/13

Date: 2021/10/23
Time: 08:31:18.31 UT
RA: +253.30 (+1.05 / -1.08 deg 90% PSF containment) J2000
Dec: -1.72 (+1.16 / -1.11 deg 90% PSF containment) J2000

We encourage follow-up by ground and space-based instruments to help identify a

One gamma-ray source, 4FGL J1653.6-0158, is located within the 90% of the error

The IceCube Neutrino Observatory is a cubic-kilometer neutrino detector operatin

Subject: GCN/ICECUBE_ASTROTRACK_BRONZE
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
Date: 10/23/2021, 3:17 AM
To: khurley@ssl.berkeley.edu

```
TITLE:            GCN/AMON NOTICE
NOTICE_DATE:      Sat 23 Oct 21 10:17:01 UT
NOTICE_TYPE:      ICECUBE Astrotrack Bronze
STREAM:           25
RUN_NUM:          135832
EVENT_NUM:        55176071
SRC_RA:           253.3000d {+16h 53m 12s} (J2000),
                  253.5830d {+16h 54m 20s} (current),
                  252.6517d {+16h 50m 36s} (1950)
SRC_DEC:           -1.7199d {-01d 43' 11"} (J2000),
                   -1.7545d {-01d 45' 15"} (current),
                   -1.6384d {-01d 38' 17"} (1950)
SRC_ERROR:        66.00 [arcmin radius, stat-only, 90% containment]
SRC_ERROR50:      39.00 [arcmin radius, stat-only, 50% containment]
DISCOVERY_DATE:   19510 TJD;   296 DOY;   21/10/23 (yy/mm/dd)
DISCOVERY_TIME:   30678 SOD {08:31:18.31} UT
REVISION:         1
ENERGY:           1.2064e+02 [TeV]
SIGNALNESS:       3.2606e-01 [dn]
FAR:              3.2048 [yr^-1]
SUN_POSTN:        208.13d {+13h 52m 32s}  -11.55d {-11d 33' 05"}
SUN_DIST:          46.12 [deg]   Sun_angle= -3.0 [hr] (East of Sun)
MOON_POSTN:        59.04d {+03h 56m 10s}  +20.41d {+20d 24' 23"}
MOON_DIST:        156.56 [deg]
GAL_COORDS:        16.80, 25.16 [deg] galactic lon,lat of the event
ECL_COORDS:       252.12, 20.69 [deg] ecliptic lon,lat of the event
COMMENTS:         IceCube Bronze event.
COMMENTS:         The position error is statistical only, there is no systematic added.
```

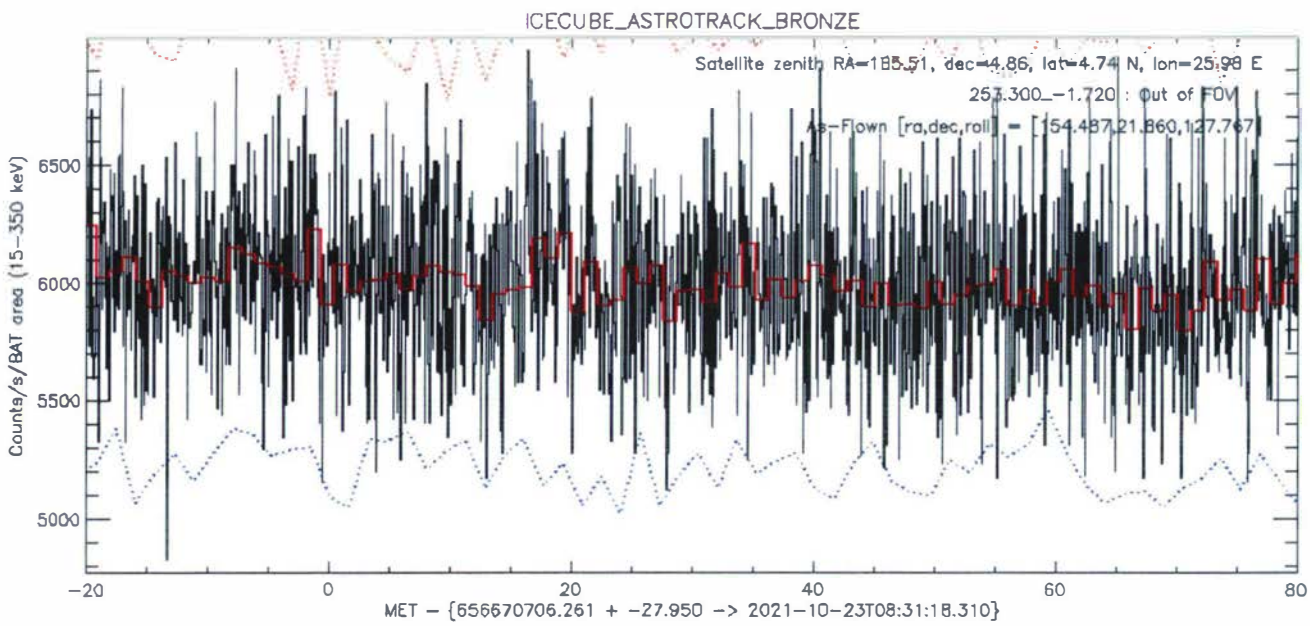
Subject: BAT lightcurve for trigger at 211023_0831
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/25/2021, 1:06 PM
To: aaron.tohu@gmail.com, dmopalmer@gmail.com, bat_team@bigbang.gsfc.nasa.gov, mkippen@lanl.gov, vestrand@lanl.gov, ipn@ssl.berkeley.edu, gbm-burst-advocate@lists.nasa.gov, palmer+automatic_lightcurve@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-23T08:31:18.310 -s 253.300_-1.720
Swift Zenith(RA,dec):          185.51, 4.86
Swift Location(lon,lat,alt):  25.98 E, 4.74 N, 555 km
Time(MET + UTCF -> UT):   656670706.261 + -27.950 -> 2021-10-23T08:31:18.310
YYMMDD_SOD:                    211023_30678.310       DOY=296
Obs Sequence Number:           03110920010
Obs Target Name:               NGC 3190
Obs Date and Times:            2021-10-23   08:22:34 - 08:37:31
Obs Pointing(ra,dec,roll):     154.487, 21.860, 127.77
253.300_-1.720_imageloc (boresight_dist, angle): (99, -129)
253.300_-1.720_exposure (cm^2 cos adjusted): 0
253.300_-1.720_altitude: 45 (up)
```

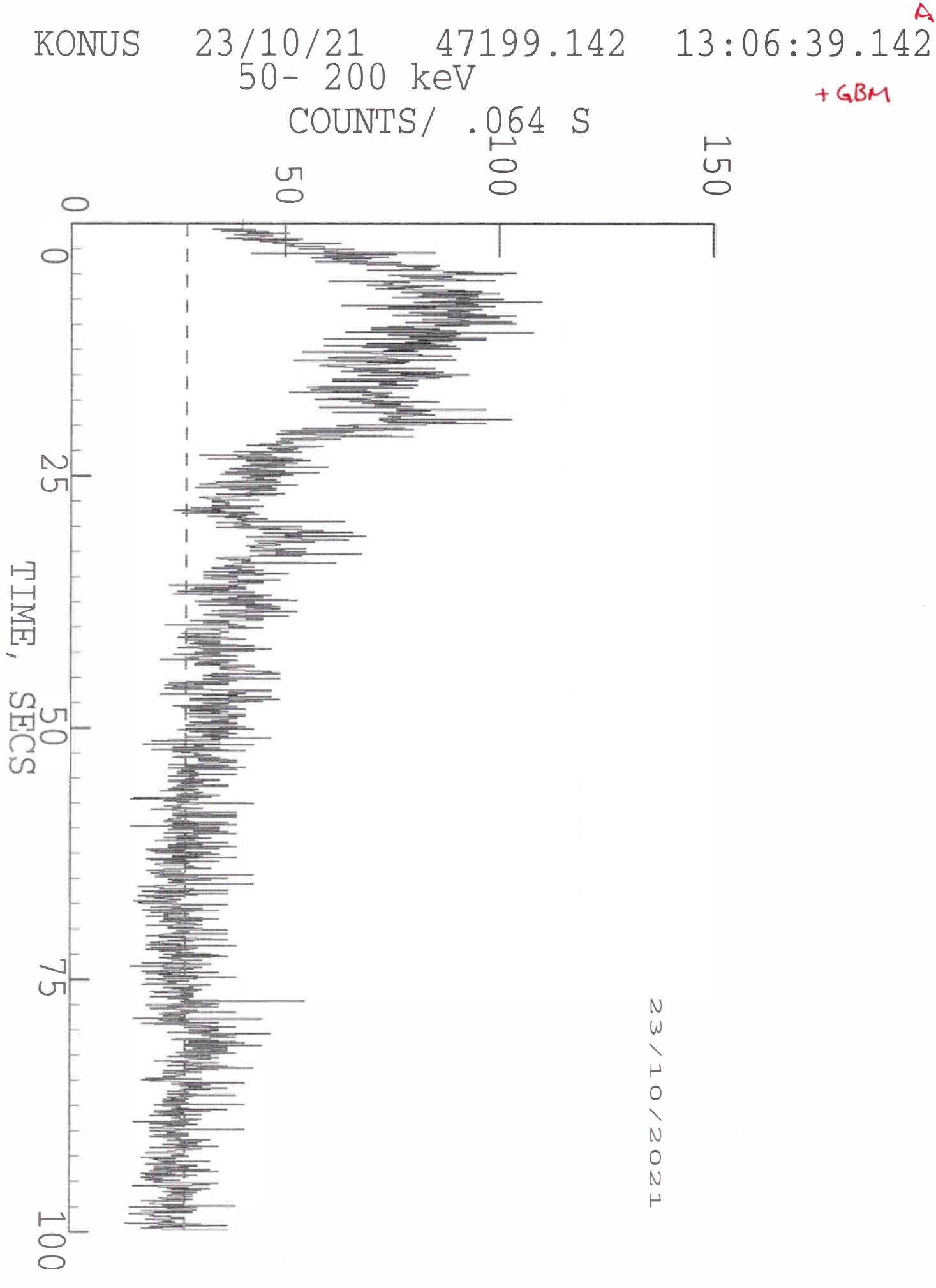
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211023_0831.png

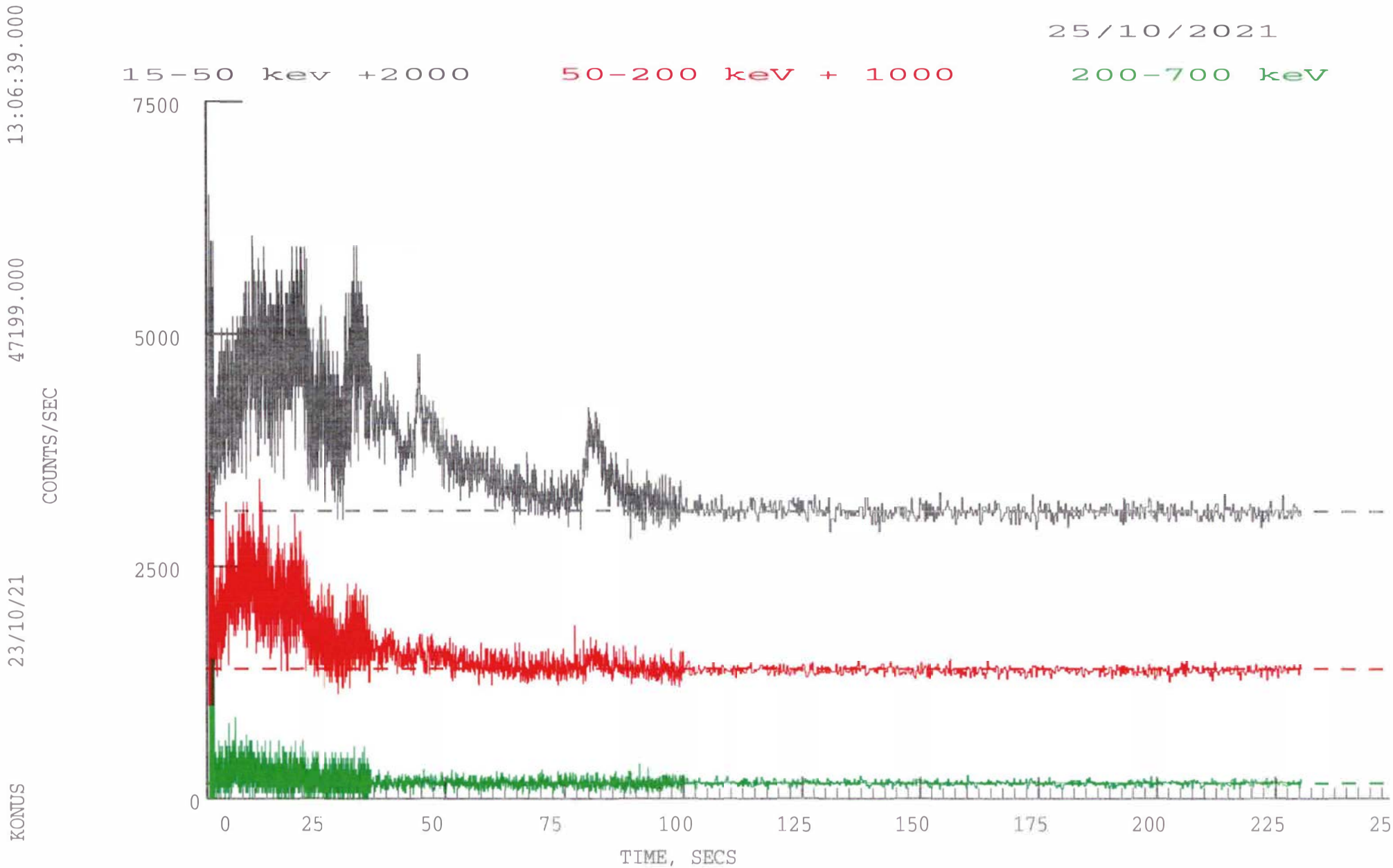


Attachments:

/tmp/swift/211023_0831.png	17.1 KB
/tmp/swift/211023_0831_bat64ms_ipn	87.1 KB

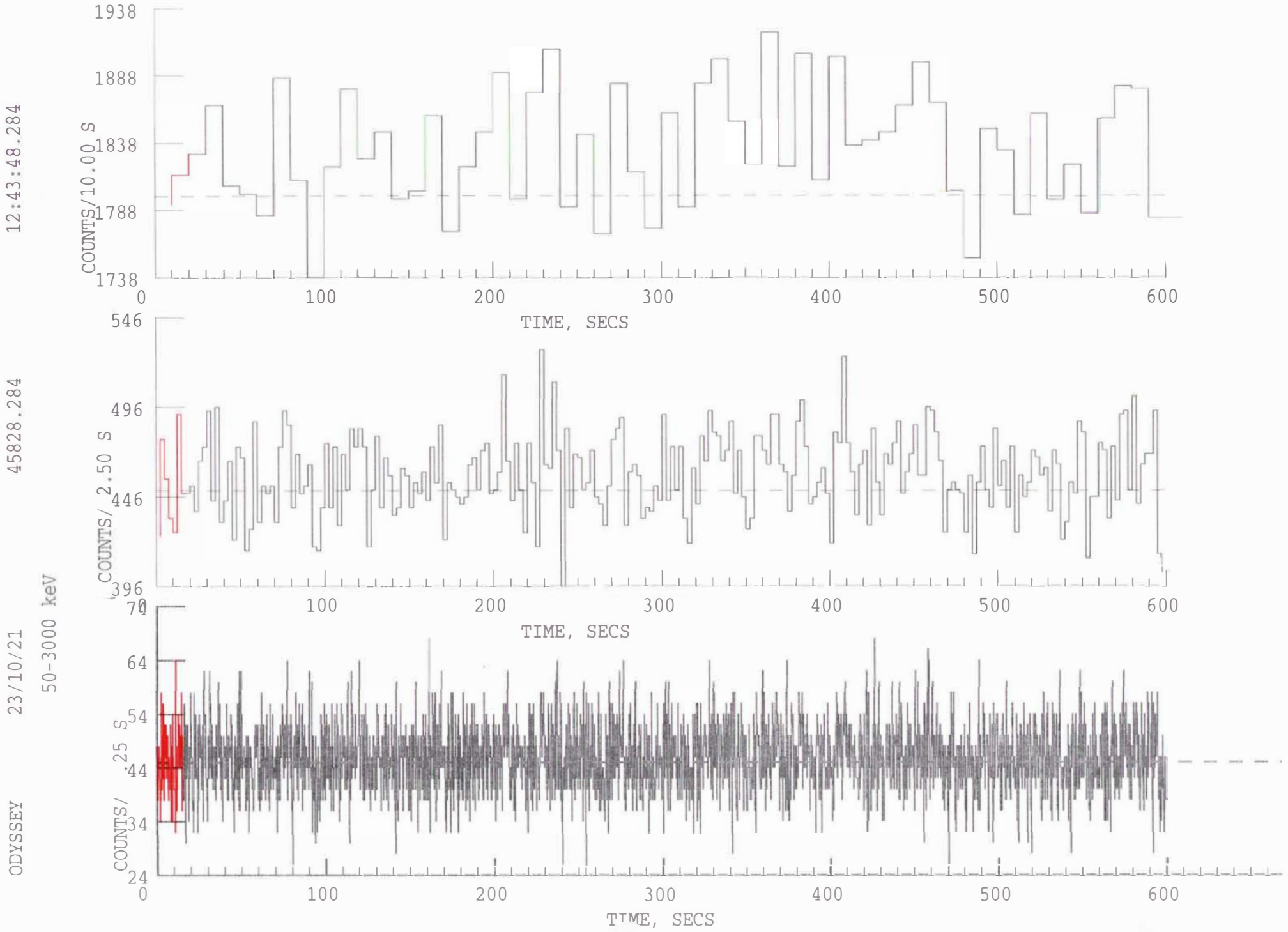

KONUS 23/10/21 47199.142 13:06:39.142
50- 200 keV
COUNTS/ .064 S
0
50
100
150
TIME, SECS
0
25
50
75
100
23/10/2021

A


25/10/2021
15-50 kev +2000
50-200 keV + 1000
200-700 keV
7500
5000
2500
0
COUNTS/SEC
0
25
50
75
100
125
150
175
200
225
25
TIME, SECS
KONUS
23/10/21
47199.000
13:06:39.000

4

25/10/2021


12:43:48.284
45828.284
23/10/21
50-3000 keV
ODYSSEY
1938
1888
1838
1788
1738
COUNTS/10.00 S
0
100
200
300
400
500
600
TIME, SECS
546
496
446
396
COUNTS/ 2.50 S
0
100
200
300
400
500
600
TIME, SECS
74
64
54
44
34
24
COUNTS/ .25 S
0
100
200
300
400
500
600
TIME, SECS

Subject: GRB 211023A: classification and SPI-ACS/INTEGRAL registration
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Date: 11/13/2021, 11:43 AM
To: khurley@ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 31081
SUBJECT: GRB 211023A: classification and SPI-ACS/INTEGRAL registration
DATE: 21/11/13 19:43:24 GMT
FROM: Alexei Pozanenko at IKI, Moscow <apozanen@iki.rssi.ru>

P. Minaev (IKI), A. Pozanenko (IKI), S. Grebenev (IKI), I. Chelovekov (IKI) report on behalf of GRB IKI FuN

We analyzed GRB 211023A (Di Lalla et al. GCN 30961; Lesage et al. GCN 30965; Ursi et al. GCN 30969; Ridnaia et al. GCN 31022) using publicly available data of GBM/Fermi and SPI-ACS/INTEGRAL.

Using GBM/Fermi we clearly detect early emission, starting about 80 s before the GBM trigger. The extended emission (possibly associated with the activity detected by LAT, Di Lalla et al. GCN 30961, and/or its extremely bright afterglow, Zhirkov et al. GCN 30977; Kann et al. GCN 30982) was also found, becoming dominant since approximately 150 s the trigger. Thus, a time profile consists of three episodes with a total burst duration of more than 300 s in GBM/Fermi (7 - 850 keV), while T90 = 117 ± 0.5 s. GRB 211023A was also registered by SPI-ACS/INTEGRAL with marginal detection of the early and the extended emission (T90 = 120 ± 9 s). Time profiles of GBM and SPI-ACS are presented at
http://grb.rssi.ru/GRB211023A/GRB211023A_GBM_ACS_light_curve.png

We performed spectral analysis of the burst using GBM/Fermi data in the time interval of (-20, 160) s after the GBM trigger, covering the main part of GRB activity. The best parameters of Band model are following: Ep = 96 ± 5 keV, alpha = -1.67 ± 0.03, beta = -2.21 ± 0.05 and fluence F = $(1.341 \pm 0.004)*10^{-4}$ erg/cm^2 in 10 - 1000 keV range. Assuming a redshift z = 0.390 (Pozanenko et al., GCN 31053) we estimated Eiso = $(7.45 \pm 0.05)*10^{52}$ erg in the 1 keV - 10 MeV energy band.

The position of the burst at Ep,i - Eiso and T90,i - EH diagram [1,2] is shown by black annuli at
http://grb.rssi.ru/GRB211023A/GRB211023A_Ep-Eiso_two_episodes_SN.png
and
http://grb.rssi.ru/GRB211023A/GRB211023A_EHD_two_episoses_SN.png

The position is typical for type II (long) GRBs, although it is in the lower bound of their 2 sigma correlation region. This is because of its relatively low value of the Ep,i parameter. Note that low values of Ep,i are typical for the nearby bursts (z < 0.5), associated with supernovae (shown by red annuli at
http://grb.rssi.ru/GRB211023A/GRB211023A_Ep-Eiso_two_episodes_SN.png
and
http://grb.rssi.ru/GRB211023A/GRB211023A_EHD_two_episoses_SN.png)

[1] - Minaev et al., MNRAS, 492, 1919, 2020
[2] - Minaev et al., Astronomy Letters, 46, 9, 573, 2020

A

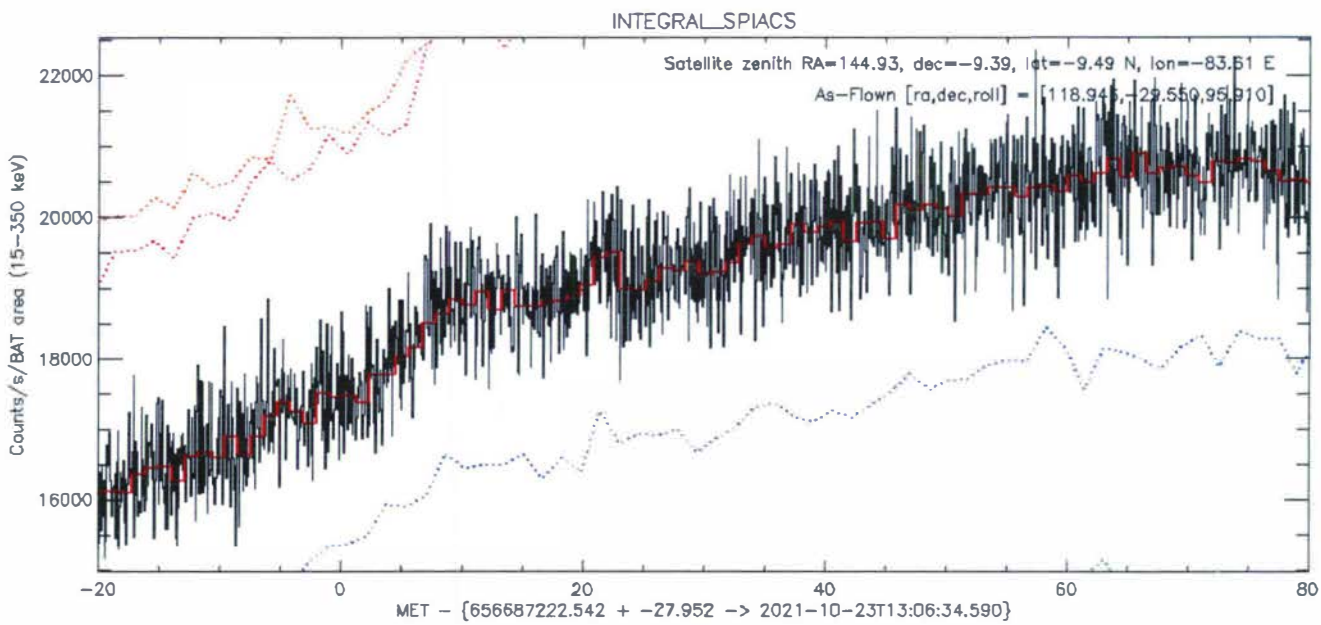
Subject: BAT lightcurve for trigger at 211023_1306
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/25/2021, 1:07 PM
To: aaron.tohu@gmail.com, ipn@ssl.berkeley.edu, vestrand@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov, mkippen@lanl.gov, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-23T13:06:34.590
Swift Zenith(RA,dec):          144.93, -9.39
Swift Location(lon,lat,alt):   -83.61 E, -9.49 N, 557 km
Time(MET + UTCF -> UT):    656687222.542 + -27.952 -> 2021-10-23T13:06:34.590
YYMMDD_SOD:                    211023_47194.590       DOY=296
Obs Sequence Number:           00095967026
Obs Target Name:               SGR 0755-2933
Obs Date and Times:            2021-10-23   12:37:34 - 13:07:29
Obs Pointing(ra,dec,roll):     118.946, -29.550, 95.91
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211023_1306.png



Attachments:

/tmp/swift/211023_1306.png	16.2 KB
/tmp/swift/211023_1306_bat64ms_ipn	87.1 KB

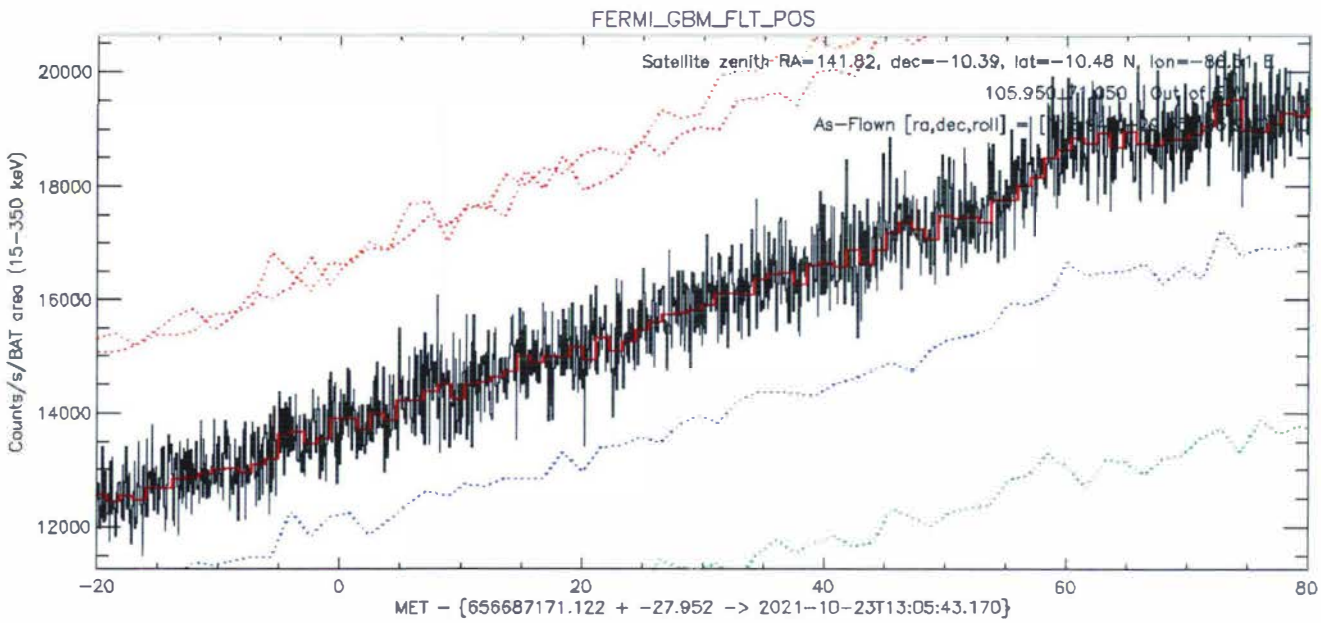
Subject: BAT lightcurve for trigger at 211023_1305
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/25/2021, 1:06 PM
To: bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, palmer+automatic_lightcurve@lanl.gov, vestrand@lanl.gov, gbm-burst-advocate@lists.nasa.gov, mkippen@lanl.gov, aaron.tohu@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-23T13:05:43.170 -s 105.950_71.050
Swift Zenith(RA,dec):          141.82, -10.39
Swift Location(lon,lat,alt):   -86.51 E, -10.48 N, 557 km
Time(MET + UTCF -> UT):    656687171.122 + -27.952 -> 2021-10-23T13:05:43.170
YYMMDD_SOD:                    211023_47143.170       DOY=296
Obs Sequence Number:           00095967026
Obs Target Name:               SGR 0755-2933
Obs Date and Times:            2021-10-23   12:37:34 - 13:07:29
Obs Pointing(ra,dec,roll):     118.946, -29.550, 95.91
105.950_71.050_imageloc (boresight_dist, angle): (101, 170)
105.950_71.050_exposure (cm^2 cos adjusted): 0
105.950_71.050_altitude: 28 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211023_1305.png



Attachments:

/tmp/swift/211023_1305.png	19.0 KB
/tmp/swift/211023_1305_bat64ms_ipn	87.0 KB

A

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Sun Oct 24 02:43:19
Date: Sun, 24 Oct 2021 05:43:15 -0400
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GRB 211023A: AGILE detection

TITLE: GCN CIRCULAR
NUMBER: 30969
SUBJECT: GRB 211023A: AGILE detection
DATE: 21/10/24 09:42:45 GMT
FROM: Alessandro Ursi at INAF/IAPS <alessandro.ursi@gmail.com>

A. Ursi, M. Cardillo (INAF/IAPS), M. Tavani (INAF/IAPS, and Univ. Roma Tor Vergata), A. Argan, C. Casentini, Y. Evangelista, E. Menegoni, L. Foffano, G. Piano (INAF/IAPS), F. Lucarelli, C. Pittori, F. Verrecchia (SSDC, and INAF/OAR), A. Bulgarelli, A. Di Piano, V. Fioretti, F. Fuschino, N. Parmiggiani (INAF/OAS-Bologna), M. Marisaldi (INAF/OAS-Bologna, and Bergen University), M. Pilia, A. Trois (INAF/OA-Cagliari), I. Donnarumma (ASI), F. Longo (Univ. Trieste and INFN Trieste), A. Giuliani (INAF/IASF-Mi), report on behalf of the AGILE Team:

The AGILE satellite detected the long GRB 211023A at T0 = 2021-10-23 13:07:58 s (UTC), reported by Fermi GBM (GCNs #30958, #30965) and Fermi LAT (GCN #30961).

The burst is clearly visible in the AGILE scientific ratemeters of the SuperAGILE (SA; 20-60 keV), MiniCALorimeter (MCAL; 0.4-100 MeV), and AntiCoincidence (AC; 50-200 keV) detectors. The event lasted about 45 s and it released a total number of 5300 counts in the SA detector (above a background rate of 90 Hz), 64325 counts in the MCAL detector (above a background rate of 1200 Hz), and 233020 counts in the AC detector (above a background rate of 2810 Hz). The AGILE ratemeter light curves can be found at http://www.agilescienceapp.it/notices/GRB211023A_AGILE_RM.png .

The event also triggered a partial high time resolution MCAL data acquisition, from T1 = 2021-10-23 13:07:32.91 s +/- 0.01 (UTC) to T2 = 2021-10-23 13:08:05.20 +/- 0.01 s (UTC), and released 12480 counts in the detector, above a background rate of 620 Hz. The time-integrated spectrum of the first 17 s of the burst can be fitted in the energy range 0.4-50 MeV with a single power-law with ph. ind. = -2.45 (-0.27/+0.34), resulting in a reduced chi-squared of 0.89 (75 d.o.f.) and a fluence of 1.3e-05 ergs/cm^2 (90% confidence level), in the same energy range. The MCAL light curve can be found at:
http://www.agilescienceapp.it/notices/075364_GRB211023A_562079268.000000.png

Additional analysis of AGILE data is in progress. Automatic MCAL GRB alert Notices can be found at: https://gcn.gsfc.nasa.gov/agile_mcal.html.

Subject: GRB 211023A: Fermi-LAT detection
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Date: 10/23/2021, 3:26 PM
To: khurley@ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 30961
SUBJECT: GRB 211023A: Fermi-LAT detection
DATE: 21/10/23 22:25:44 GMT
FROM: Niccolo Di Lalla at Stanford U <niccolo.dilalla@stanford.edu>

N. Di Lalla (Stanford Univ.), F. Longo (Univ. and INFN, Trieste) and M. Ohno (Hiroshima Univ. & Eotvos Univ) report on behalf of the Fermi-LAT Collaboration:

On October 23rd, 2021, Fermi-LAT detected high-energy emission from GRB 211023A, which was also detected by Fermi GBM (trigger 656687148 / 211023546, GCN 30958). The best LAT on-ground location is found to be:

RA, Dec = 72.3, 85.3 (degrees, J2000)

with an error radius of 0.1 deg (90% containment, statistical error only).

The position was 54 deg from the LAT boresight at the time of the GBM trigger:

T0 = 13:05:43 UT.

The data from the Fermi-LAT show a significant increase in the event rate after the trigger that is temporally and spatially correlated with the GBM emission with high significance. The photon flux above 100 MeV in the time interval 0-2500 s after the trigger is 3.4 (-/+ 0.6) e-06 ph/cm2/s.

The estimated photon index above 100 MeV is -1.8 (-/+ 0.1).

The highest-energy photon is a 8.6 GeV event which is observed at 1832 seconds after the GBM trigger.

A Swift ToO has been requested for this burst.

The Fermi-LAT point of contact for this burst is Donggeun Tak (takdg123@gmail.com<mailto:takdg123@gmail.com>).

The Fermi-LAT is a pair conversion telescope designed to cover the energy band from 20 MeV to greater than 300 GeV. It is the product of an international collaboration between NASA and DOE in the U.S. and many scientific institutions across France, Italy, Japan and Sweden.

B

Subject: GCN/SWIFT_BAT_LIGHTCURVE
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
Date: 10/23/2021, 2:09 PM
To: khurley@ssl.berkeley.edu

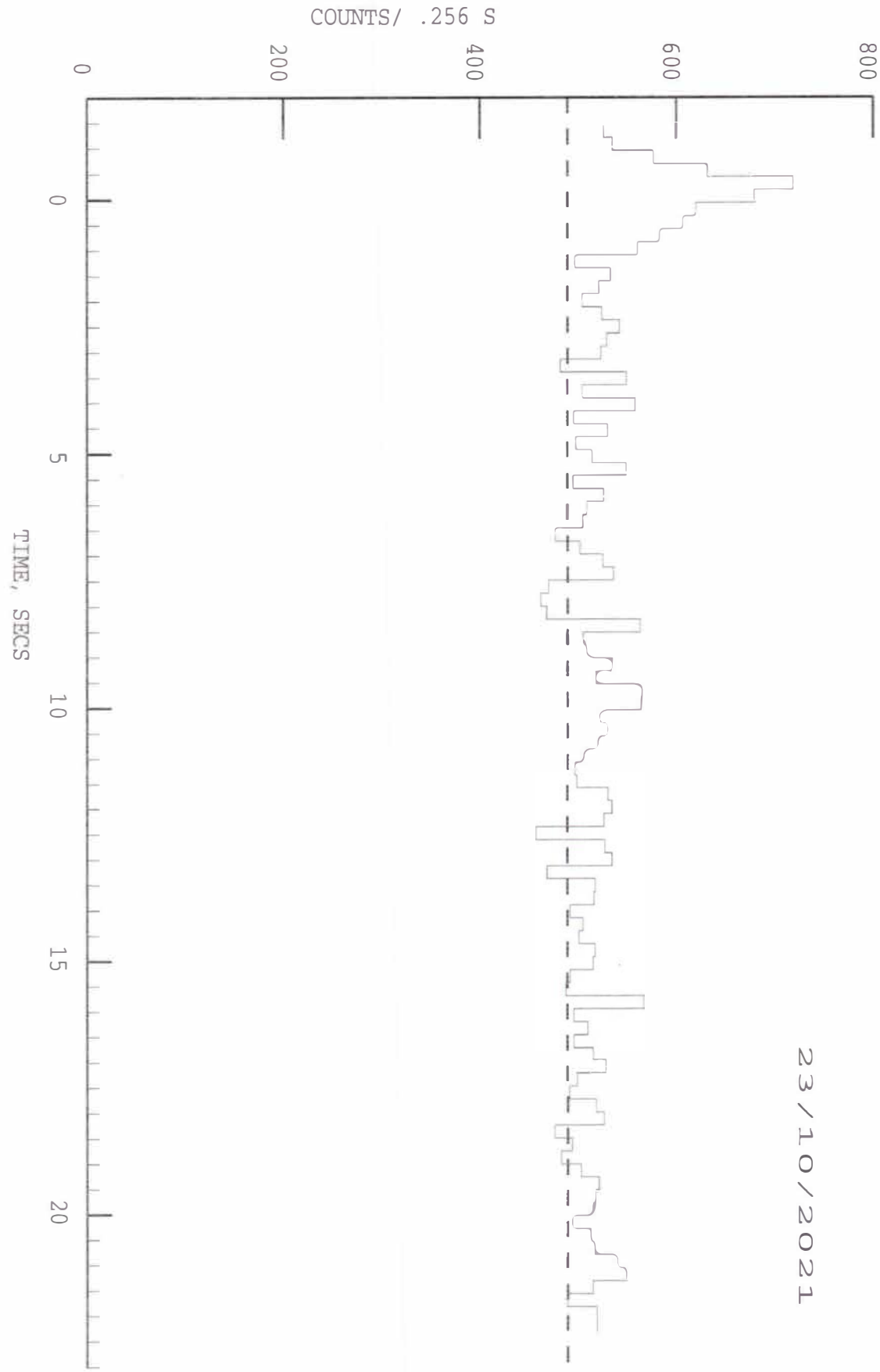
1.3s
1.7×10^{-7} erg cm^{-2}

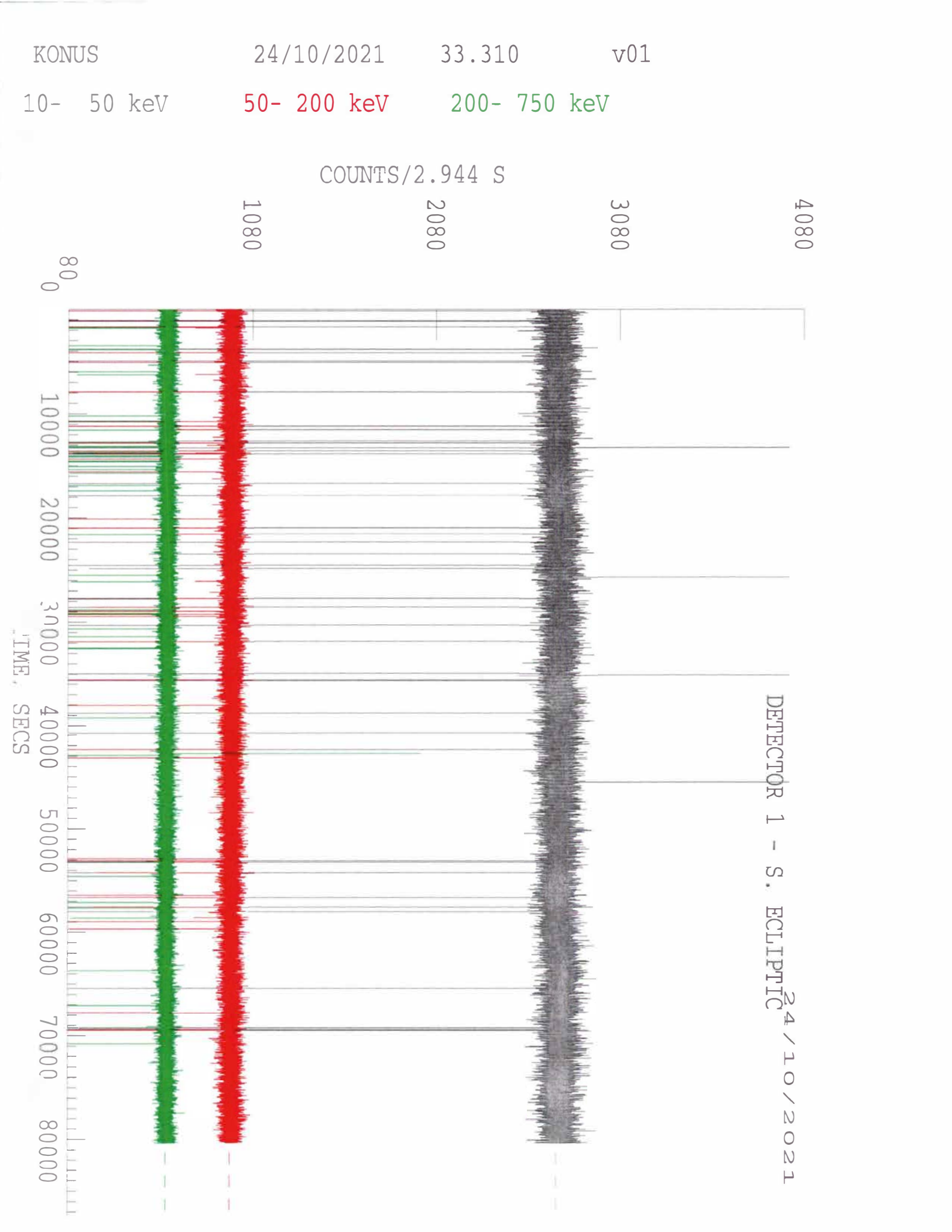
```
TITLE:           GCN/SWIFT NOTICE
NOTICE_DATE:     Sat 23 Oct 21 21:09:36 UT
NOTICE_TYPE:     Swift-BAT GRB Lightcurve
TRIGGER_NUM:     1080859,   Seg_Num: 0
GRB_RA:          170.302d {+11h 21m 12s} (J2000),
                 170.598d {+11h 22m 23s} (current),
                 169.622d {+11h 18m 29s} (1950)
GRB_DEC:         +39.137d {+39d 08' 14"} (J2000),
                 +39.017d {+39d 01' 02"} (current),
                 +39.411d {+39d 24' 40"} (1950)
GRB_DATE:        19510 TJD;   296 DOY;   21/10/23
GRB_TIME:        75952.14 SOD {21:05:52.14} UT
TRIGGER_INDEX:   137
GRB_PHI:         -162.51 [deg]
GRB_THETA:        41.90 [deg]
DELTA_TIME:      70.00 [sec]
TRIGGER_DUR:     1.024 [sec]
SOLN_STATUS:     0x3
RATE_SIGNIF:     12.44 [sigma]
IMAGE_SIGNIF:    9.67 [sigma]
LC_URL:          sw01080859000msb.lc
SUN_POSTN:       208.56d {+13h 54m 15s}  -11.71d {-11d 42' 33"}
SUN_DIST:         61.83 [deg]   Sun_angle= 2.5 [hr] (West of Sun)
MOON_POSTN:       64.60d {+04h 18m 23s}  +21.89d {+21d 53' 30"}
MOON_DIST:        87.94 [deg]
MOON_ILLUM:      91 [%]
GAL_COORDS:      174.62, 67.71 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS:      154.12, 31.81 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS:        SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS:        The next comments were copied from the BAT_POS Notice:
COMMENTS:        This is a rate trigger.
COMMENTS:        A point_source was found.
COMMENTS:        This does not match any source in the on-board catalog.
COMMENTS:        This does not match any source in the ground catalog.
COMMENTS:        This is a GRB.
COMMENTS:        This trigger occurred at longitude,latitude = 161.35,-6.74 [deg].
```

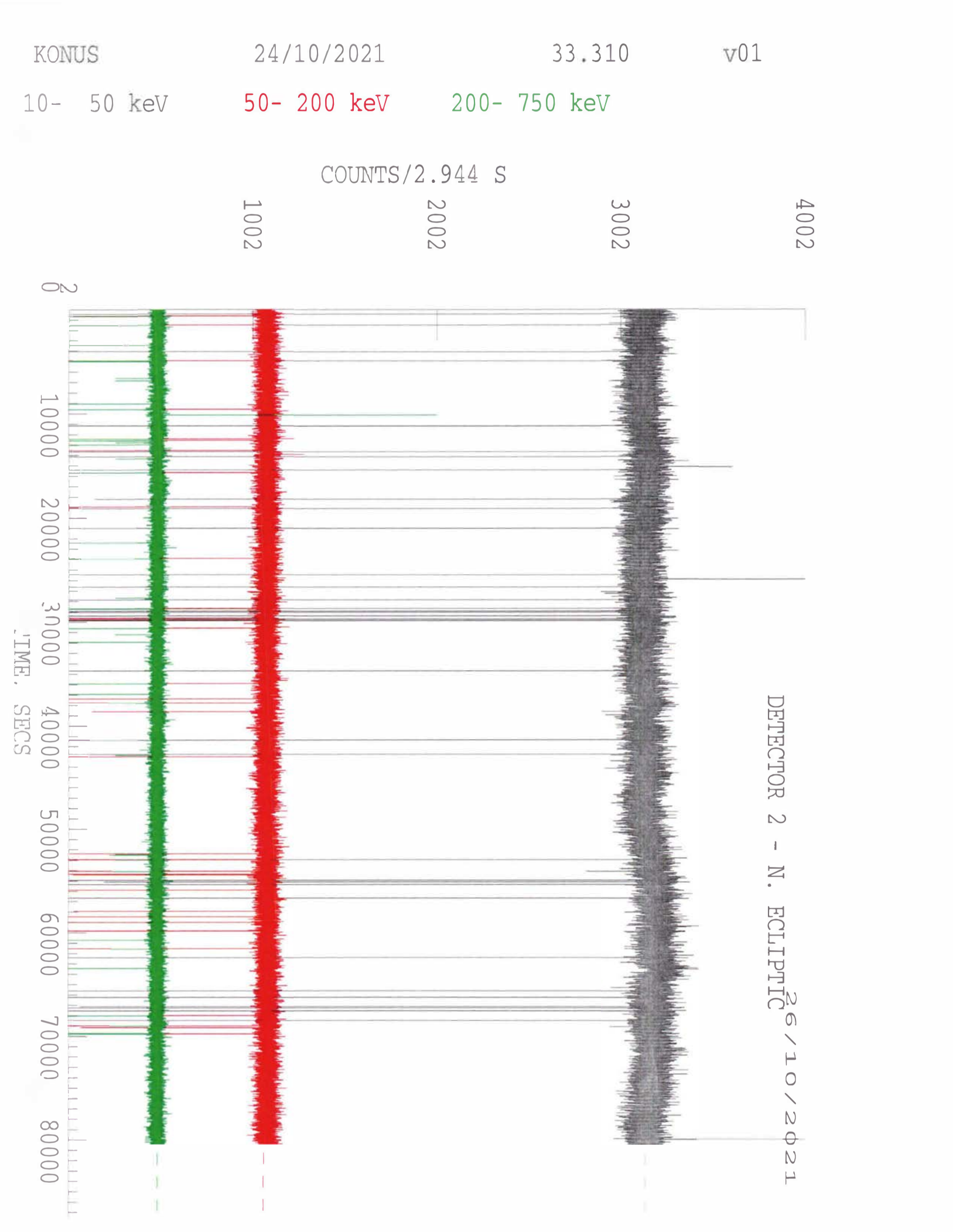
B

BAT 23/10/21 75952.141 21:05:52.141

25- 100 keV




KONUS 24/10/2021 33.310 v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
0
80
1080
2080
3080
4080
TIME SECS
10000
20000
30000
40000
50000
60000
70000
80000
DETECTOR 1 - S. ECLIPTIC
24/10/2021


KONUS
24/10/2021
33.310
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
1002
2002
3002
4002
0
10000
20000
30000
40000
50000
60000
70000
80000
TIME, SECS
DETECTOR 2 - N. ECLIPTIC
26/10/2021

A

Subject: GRB 211024A: GECAM detection
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Date: 10/24/2021, 7:45 AM
To: khurley@ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 30974
SUBJECT: GRB 211024A: GECAM detection
DATE: 21/10/24 14:44:10 GMT
FROM: Shuo Xiao at IHEP <xiaoshuo@ihep.ac.cn>

S. Xiao, Yi Zhao, S. L. Xiong, C. Cai, J. J. He, Y. Huang, Z. W. Guo,
C. Y. Li, X. B. Li, J. C. Liu, X. Y. Song, C. W. Wang, P. Wang, S. L. Xie, W. C. Xue,
Q. B. Yi, Y. Q. Zhang, G. Y. Zhao, X. Y. Zhao, C. Zheng, Y. Q. Du, D. Y. Guo,
J. Liang, F. J. Lu, Q. Luo, X. Ma, W. X. Peng, R. Qiao, L. M. Song, J. Wang, H. Wu,
P. Zhang, S. N. Zhang, X. L. Zhang, Z. Zhang, S. J. Zheng (IHEP),
report on behalf of GECAM team:

During the commissioning phase, GECAM-B was triggered ground by a short
bright burst, GRB 211024A, at 2021-10-24T01:34:11.450 UTC (denoted as T0),
which was also detected by Fermi/GBM (GCN 30962).
According to the GECAM-B light curves in about 16-3500 keV, this
burst mainly consists of a broad pulse with a duration of about 0.1 s.

The GECAM light curve could be found here:
http://twiki.ihep.ac.cn/pub/GECAM/GRBList/tn211024_013411_gb.png

GECAM-B localized this burst to the following position (J2000):
Ra: 25.7 deg
Dec: 1.05 deg
Err: 28.73 deg (1-sigma, statistical only)
The current systematic error of location is estimated to be several degrees
which could be minimized by the ongoing calibration.

This location is consistent with Fermi/GBM position within the error.

Please note that all GECAM results here are preliminary. The final analysis
will be published in journal papers or GECAM online catalog.

Gravitational wave high-energy Electromagnetic Counterpart All-sky Monitor
(GECAM) mission consists of two small satellites (GECAM-A and GECAM-B) in
Low Earth Orbit (600 km, 29 deg), launched on Dec 10, 2020 (Beijing Time),
which was funded by the Chinese Academy of Sciences (CAS).

Subject: BAT lightcurve for trigger at 211024_0134
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/25/2021, 1:07 PM
To: mkippen@lanl.gov, gbm-burst-advocate@lists.nasa.gov, vestrand@lanl.gov, palmer+automatic_lightcurve@lanl.gov, aaron.tohu@gmail.com, dmopalmer@gmail.com, ipn@ssl.berkeley.edu, bat_team@bigbang.gsfc.nasa.gov

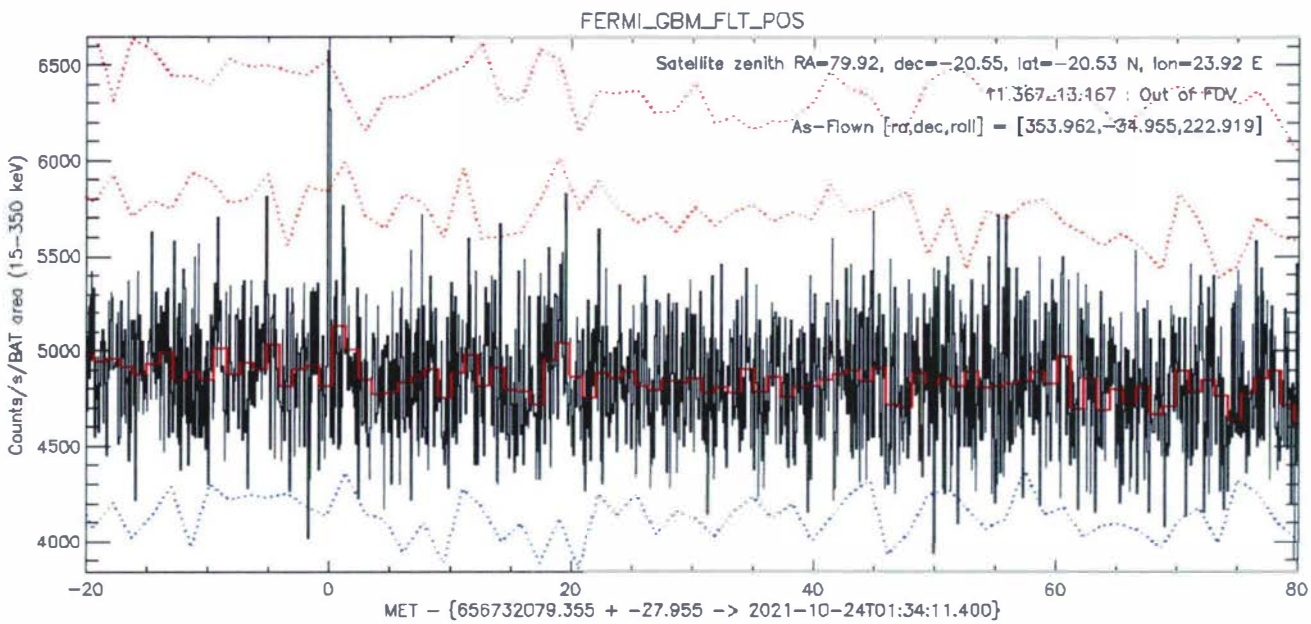
******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-24T01:34:11.400 -s 11.367_13.167
Swift Zenith(RA,dec):          79.92, -20.55
Swift Location(lon,lat,alt):  23.92 E, -20.53 N, 553 km
Time(MET + UTCF -> UT):   656732079.355 + -27.955 -> 2021-10-24T01:34:11.400
YYMMDD_SOD:                    211024_05651.400       DOY=297
Obs Sequence Number:           00074644028
Obs Target Name:               saa-cold-20-08
Obs Date and Times:            2021-10-24   01:09:34 - 01:34:32
Obs Pointing(ra,dec,roll):     353.962, -34.955, 222.92
11.367_13.167_imageloc (boresight_dist, angle): (51, 69)
11.367_13.167_exposure (cm^2 cos adjusted): 0
11.367_13.167_altitude: 38 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

GUANO loc.

/tmp/swift/211024_0134.png



Attachments:

/tmp/swift/211024_0134.png	19.6 KB
/tmp/swift/211024_0134_bat64ms_ipn	87.0 KB

Subject: GCN/CALET_GBM_FLT_LIGHTCURVE
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
Date: 10/24/2021, 7:20 AM
To: khurley@ssl.berkeley.edu

```
TITLE:           GCN/CALET NOTICE
NOTICE_DATE:     Sun 24 Oct 21 14:20:49 UT
NOTICE_TYPE:     CALET GBM Flight Lightcurve
POINT_RA:         99.78d {+06h 39m 08s} (J2000),
POINT_DEC:       +37.45d {+37d 27' 00"} (J2000),
TRIGGER_NUM:     1319120395
TRIGGER_DATE:    19511 TJD;   297 DOY;   21/10/24
TRIGGER_TIME:    51600.28 SOD {14:20:00.28} UT
TRIGGER_DET:     0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE:    11.30 [sigma]
FOREGND_DUR:     4.00 [sec]
BACKGND_DUR1:    16.00 [sec]
ENERGY_BAND:     40-230 [keV]
SC_LON_LAT:      211.94,37.43 [deg]
LC_URL:          http://cgbm.calet.jp/cgbm trigger/flight//1319120395/index.html
COMMENTS:        CALET-GBM Flight Lightcurve.
COMMENTS:        The LC_URL file will not be created until ~15 min after the trigger.
```

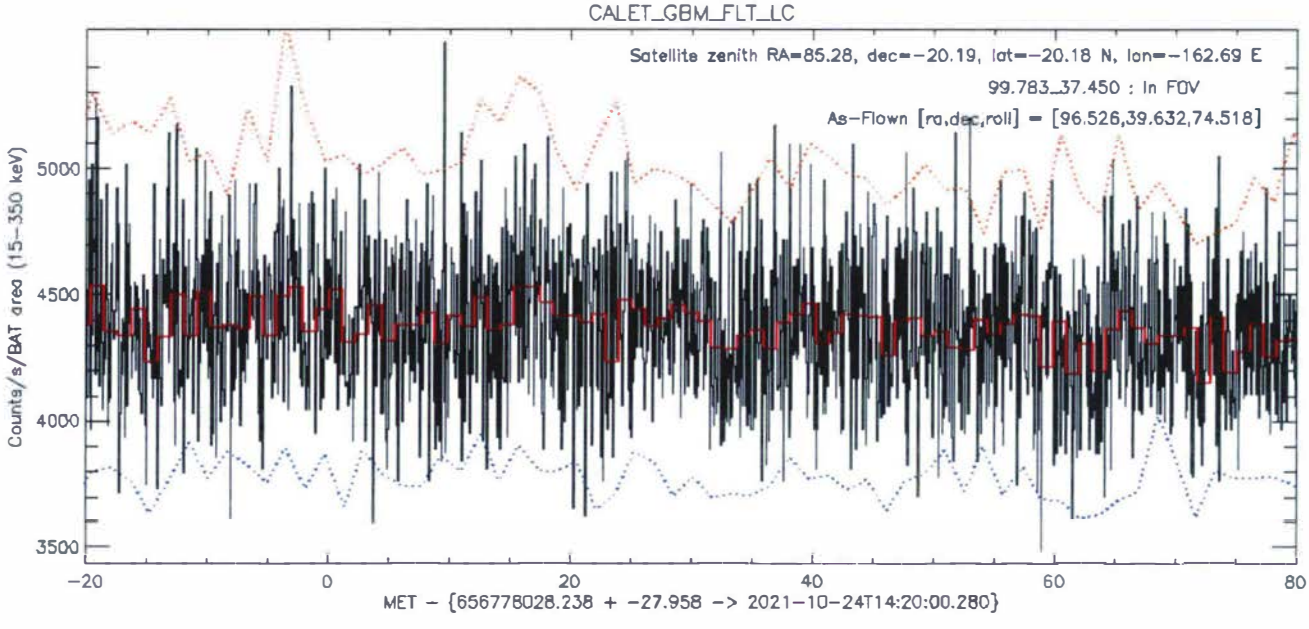
Subject: BAT lightcurve for trigger at 211024_1420
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/25/2021, 1:08 PM
To: aaron.tohu@gmail.com, palmer+automatic_lightcurve@lanl.gov, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu, gbm-burst-advocate@lists.nasa.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-24T14:20:00.280 -s 99.783_37.450
Swift Zenith(RA,dec):          85.28, -20.19
Swift Location(lon,lat,alt):   -162.69 E, -20.18 N, 553 km
Time(MET + UTCF -> UT):    656778028.238 + -27.958 -> 2021-10-24T14:20:00.280
YYMMDD_SOD:                    211024_51600.280       DOY=297
Obs Sequence Number:           00014878004
Obs Target Name:               SN 2021abpt
Obs Date and Times:            2021-10-24   14:18:34 - 14:40:33
Obs Pointing(ra,dec,roll):     96.526, 39.632, 74.52
99.783_37.450_imageloc (boresight_dist, angle): (3, -35)
99.783_37.450_exposure (cm^2 cos adjusted): 4356
99.783_37.450_altitude: 54 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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—/tmp/swift/211024_1420.png



Attachments:

/tmp/swift/211024_1420.png	19.0 KB
/tmp/swift/211024_1420_bat64ms_ipn	87.1 KB

Subject: GCN/CALET_GBM_FLT_LIGHTCURVE
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
Date: 10/24/2021, 8:54 AM
To: khurley@ssl.berkeley.edu

```
TITLE:           GCN/CALET NOTICE
NOTICE_DATE:     Sun 24 Oct 21 15:54:56 UT
NOTICE_TYPE:     CALET GBM Flight Lightcurve
POINT_RA:        105.20d {+07h 00m 49s} (J2000),
POINT_DEC:       +40.80d {+40d 47' 56"} (J2000),
TRIGGER_NUM:     1319126052
TRIGGER_DATE:    19511 TJD;   297 DOY;   21/10/24
TRIGGER_TIME:    57257.09 SOD {15:54:17.09} UT
TRIGGER_DET:     0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE:    12.00 [sigma]
FOREGND_DUR:     4.00 [sec]
BACKGND_DUR1:    16.00 [sec]
ENERGY_BAND:     40-230 [keV]
SC_LON_LAT:      193.71,40.77 [deg]
LC_URL:          http://cgbm.calet.jp/cgbm_trigger/flight//1319126052/index.html
COMMENTS:        CALET-GBM Flight Lightcurve.
COMMENTS:        The LC_URL file will not be created until ~15 min after the trigger.
```

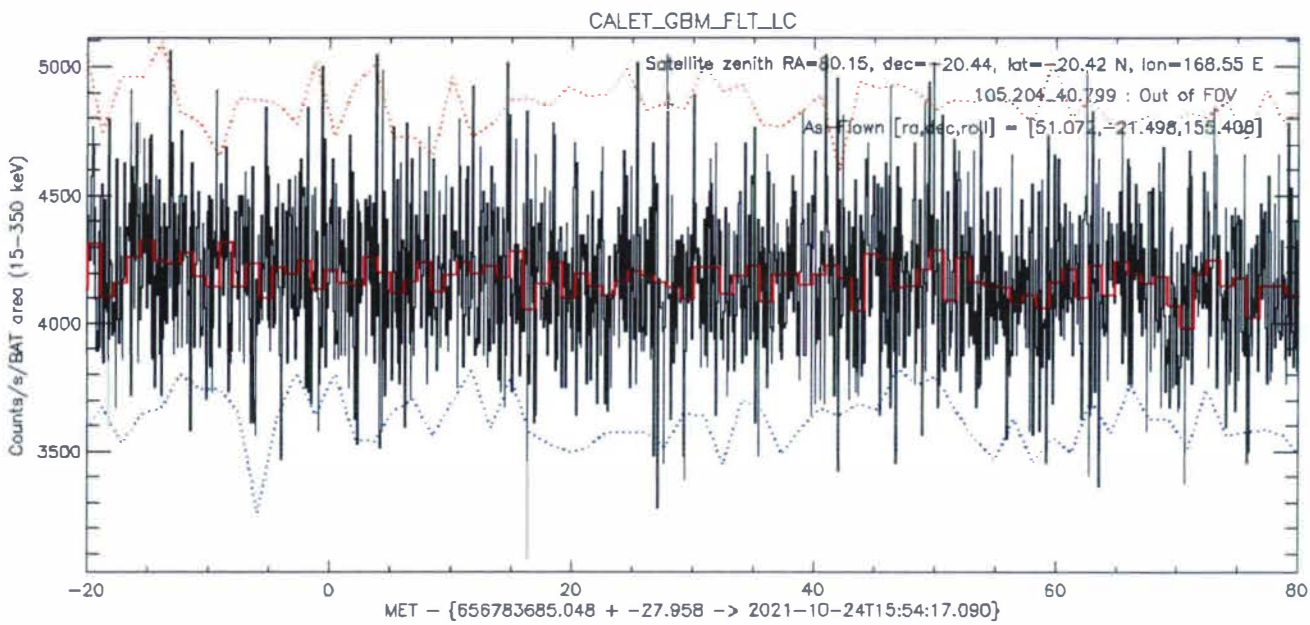
Subject: BAT lightcurve for trigger at 211024_1554
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/25/2021, 1:08 PM
To: palmer+automatic_lightcurve@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov, mkippen@lanl.gov, gbm-burst-advocate@lists.nasa.gov, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, aaron.tohu@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-24T15:54:17.090 -s 105.204_40.799
Swift Zenith(RA,dec):          80.15, -20.44
Swift Location(lon,lat,alt):  168.55 E, -20.42 N, 552 km
Time(MET + UTCF -> UT):    656783685.048 + -27.958 -> 2021-10-24T15:54:17.090
YYMMDD_SOD:                    211024_57257.090       DOY=297
Obs Sequence Number:           00014808021
Obs Target Name:               AT2021yja
Obs Date and Times:            2021-10-24   15:46:34 - 16:06:32
Obs Pointing(ra,dec,roll):     51.072, -21.498, 155.41
105.204_40.799_imageloc (boresight_dist, angle): (80, 153)
105.204_40.799_exposure (cm^2 cos adjusted): 0
105.204_40.799_altitude: 48 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

/tmp/swift/211024_1554.png



Attachments:

/tmp/swift/211024_1554.png	18.5 KB
/tmp/swift/211024_1554_bat64ms_ipn	87.0 KB

B

Subject: GCN/SWIFT_BAT_LIGHTCURVE
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
Date: 10/24/2021, 3:24 PM
To: khurley@ssl.berkeley.edu

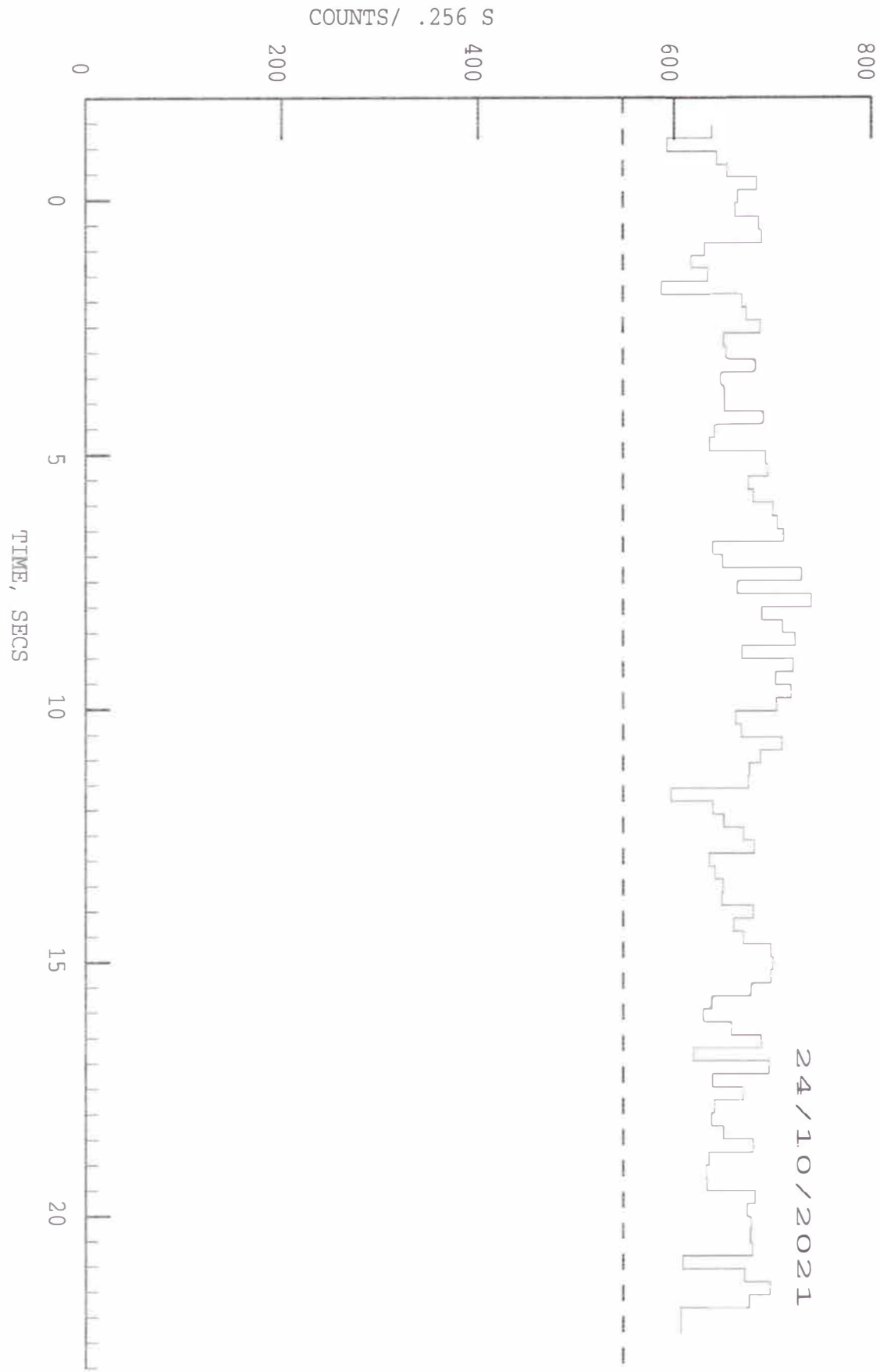
603 s
6.8×10^{-6} erg cm^{-2}

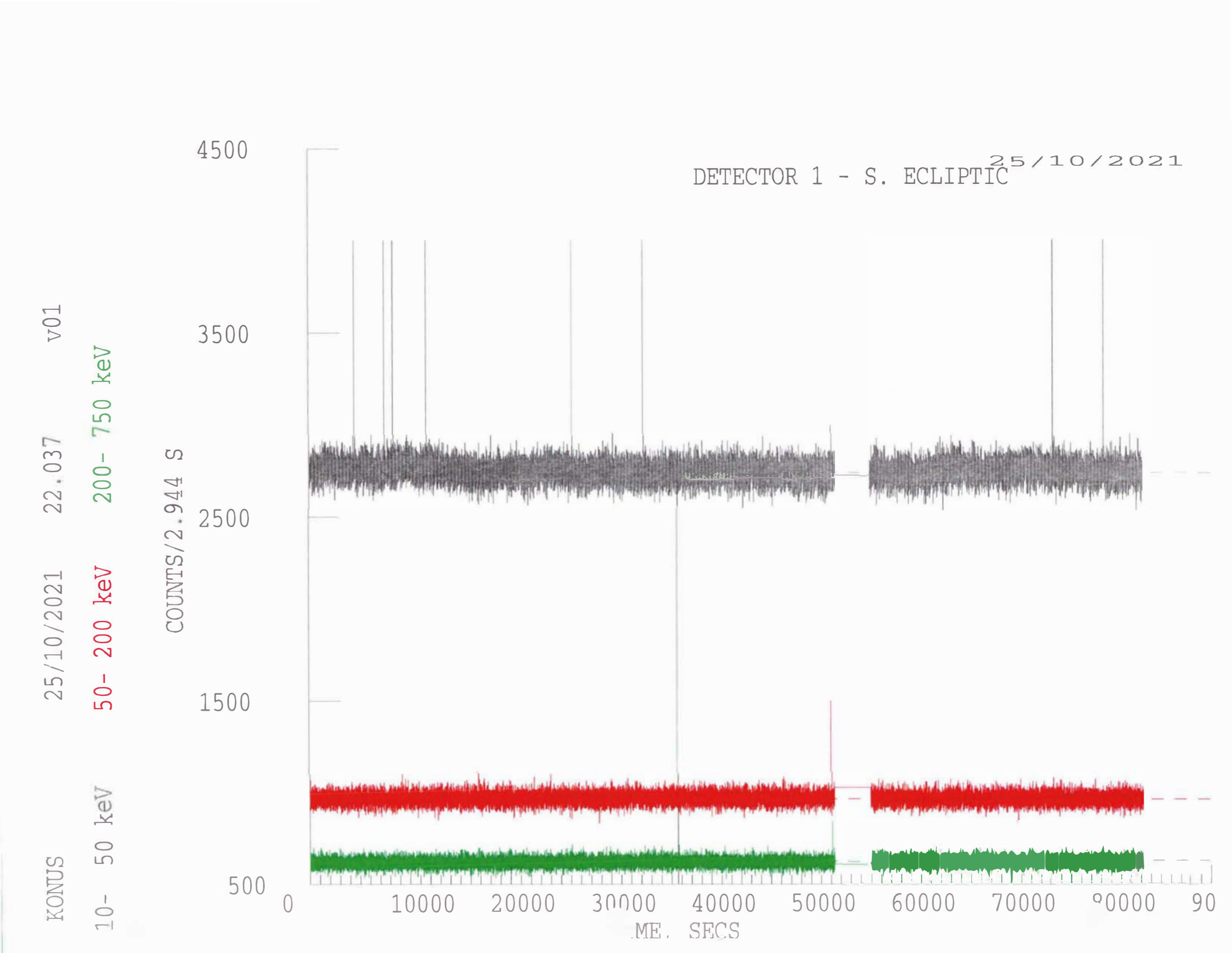
```
TITLE:           GCN/SWIFT NOTICE
NOTICE_DATE:     Sun 24 Oct 21 22:24:26 UT
NOTICE_TYPE:     Swift-BAT GRB Lightcurve
TRIGGER_NUM:     1081073,   Seg_Num: 0
GRB_RA:          154.688d {+10h 18m 45s} (J2000),
                 154.991d {+10h 19m 58s} (current),
                 153.992d {+10h 15m 58s} (1950)
GRB_DEC:         +24.579d {+24d 34' 43"} (J2000),
                 +24.469d {+24d 28' 07"} (current),
                 +24.830d {+24d 49' 46"} (1950)
GRB_DATE:        19511 TJD;   297 DOY;   21/10/24
GRB_TIME:        80436.03 SOD {22:20:36.03} UT
TRIGGER_INDEX:   20000
GRB_PHI:         165.72 [deg]
GRB_THETA:         2.70 [deg]
DELTA_TIME:      0.00 [sec]
TRIGGER_DUR:     64.000 [sec]
SOLN_STATUS:     0x2013
RATE_SIGNIF:     0.00 [sigma]
IMAGE_SIGNIF:    19.41 [sigma]
LC_URL:          sw01081073000msb.lc
SUN_POSTN:       209.57d {+13h 58m 16s}  -12.07d {-12d 04' 25"}
SUN_DIST:         64.58 [deg]   Sun_angle= 3.6 [hr] (West of Sun)
MOON_POSTN:       77.83d {+05h 11m 19s}  +24.58d {+24d 34' 32"}
MOON_DIST:        69.14 [deg]
MOON_ILLUM:      84 [%]
GAL_COORDS:      208.44, 55.68 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS:      147.58, 13.12 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS:        SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS:        The next comments were copied from the BAT_POS Notice:
COMMENTS:        This is an image trigger.
COMMENTS:        A point_source was found.
COMMENTS:        This does not match any source in the on-board catalog.
COMMENTS:        This does not match any source in the ground catalog.
COMMENTS:        There is a bright star (mag=6.40) 8.73 arcmin from this position.
COMMENTS:        This is a GRB.
COMMENTS:        This trigger occurred at longitude,latitude = 90.97,-18.25 [deg].
```

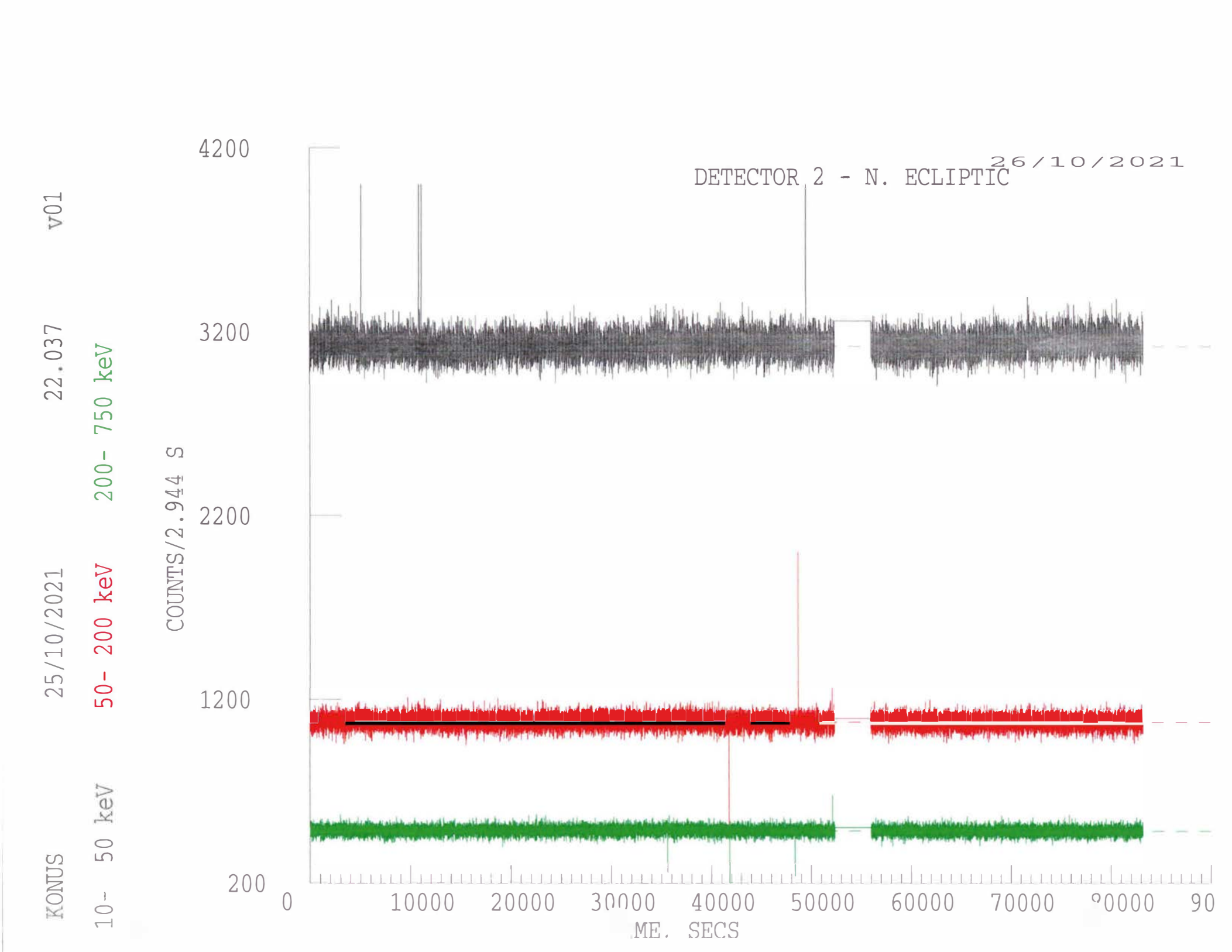
B

BAT 24/10/21 80436.039 22:20:36.039

25- 100 keV




KONUS
25/10/2021
22.037
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4500
3500
2500
1500
500
0
10000
20000
30000
40000
50000
60000
70000
80000
90
ME, SECS
DETECTOR 1 - S. ECLIPTIC
25/10/2021


KONUS
25/10/2021
22.037
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
26/10/2021
COUNTS/2.944 S
4200
3200
2200
1200
200
0
10000
20000
30000
40000
50000
60000
70000
90000
90
ME. SECS

Subject: GECAM detection of a short burst probably from SGR J1555.2-5402
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Date: 10/24/2021, 8:45 PM
To: khurley@ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 30985
SUBJECT: GECAM detection of a short burst probably from SGR J1555.2-5402
DATE: 21/10/25 03:44:59 GMT
FROM: Ce Cai at IHEP <caice@ihep.ac.cn>

C. Cai, S. Xiao, Yi Zhao, S. L. Xiong, J. J. He, Y. Huang, Z. W. Guo,
C. Y. Li, X. B. Li, J. C. Liu, X. Y. Song, C. W. Wang, P. Wang,
S. L. Xie, W. C. Xue, Q. B. Yi, Y. Q. Zhang, G. Y. Zhao, X. Y. Zhao,
C. Zheng, Y. Q. Du, D. Y. Guo, J. Liang, F. J. Lu, Q. Luo, X. Ma,
W. X. Peng, R. Qiao, L. M. Song, J. Wang, H. Wu, P. Zhang, S. N. Zhang,
X. L. Zhang, Z. Zhang, S. J. Zheng (IHEP), report on behalf of GECAM team:

During the commissioning phase, GECAM-B was triggered in-flight by
a bright short burst (trig# 88823384) at 2021-10-25T01:09:44.250 UTC (T0),
Its alert data was promptly downlinked to the ground through the short
message service of BeiDou Navigation Satellite System (BDS). The time latency
of the first BeiDou message relative to the trigger time is about 1 minute.

According to the BDS alert data, this burst mainly consists of
a single pulse with a duration of about 50 ms.
Using the light curves and spectrum in the BDS alert data,
GECAM-B localized this burst to the following position (J2000):
Ra: 244.40 deg
Dec: -64.997 deg
Err: 17.63 deg (1-sigma, statistical only)
The current systematic error of location is estimated to be several degrees.

This location is consistent with SGR J1555.2-5402 within the error.

The GECAM light curve could be found here:
http://twiki.ihep.ac.cn/pub/GECAM/GRBList/gecamb_lc_grd_all_combine_88823384.png

As the detailed science data are downloaded, all analyses would be improved.

Please note that all GECAM results here are preliminary. The final analysis
will be published in journal papers or GECAM online catalog.

Gravitational wave high-energy Electromagnetic Counterpart All-sky Monitor
(GECAM) mission consists of two small satellites (GECAM-A and GECAM-B) in
Low Earth Orbit (600 km, 29 deg), launched on Dec 10, 2020 (Beijing Time),
which was funded by the Chinese Academy of Sciences (CAS).

A

Subject: GCN/SWIFT_BAT_LIGHTCURVE
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
Date: 10/24/2021, 10:14 PM
To: khurley@ssl.berkeley.edu

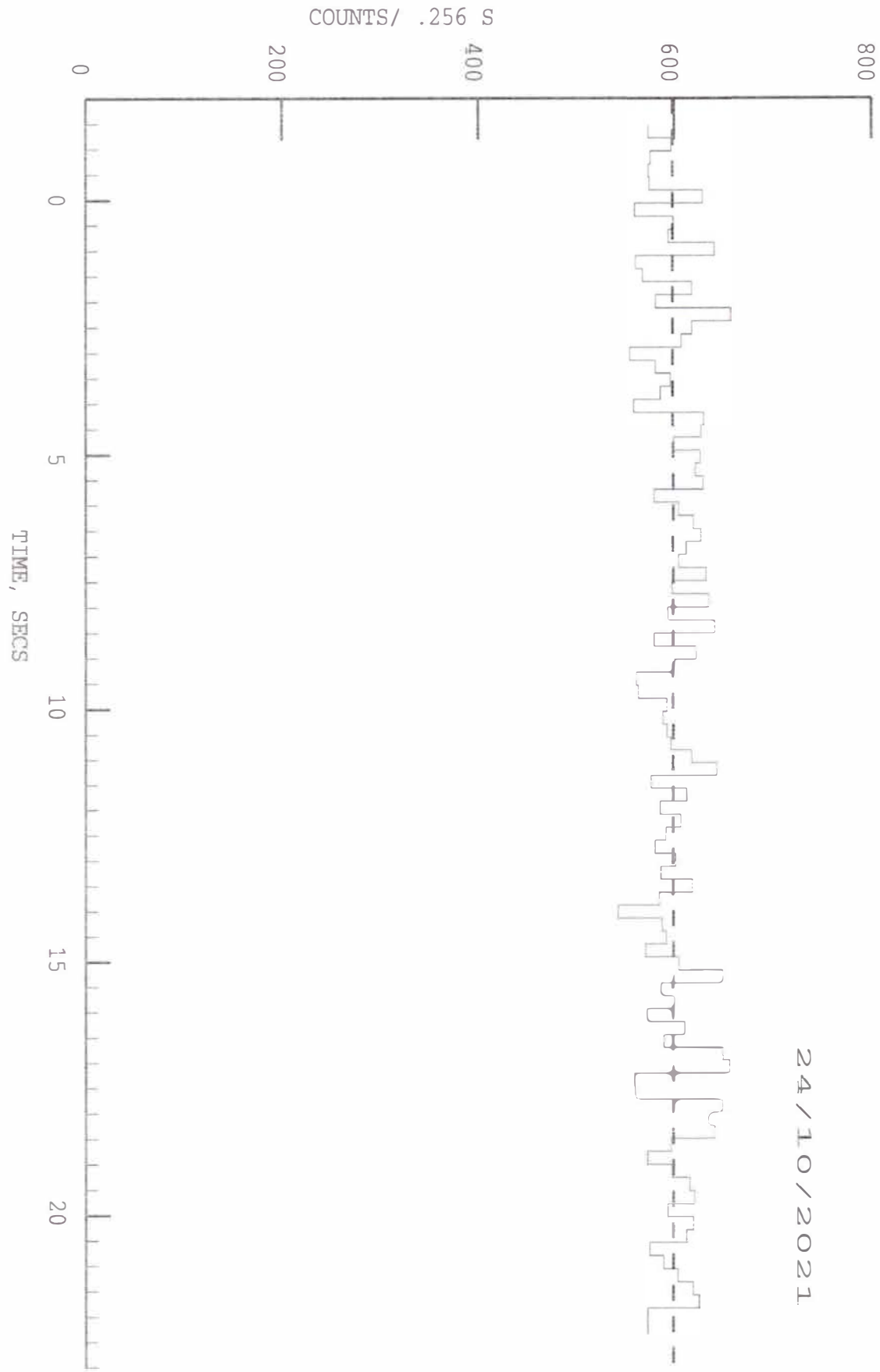
```
TITLE:           GCN/SWIFT NOTICE
NOTICE_DATE:     Mon 25 Oct 21 05:14:12 UT
NOTICE_TYPE:     Swift-BAT GRB Lightcurve
TRIGGER_NUM:     1081113,   Seg_Num: 0
GRB_RA:          162.377d {+10h 49m 30s} (J2000),
                 162.679d {+10h 50m 43s} (current),
                 161.683d {+10h 46m 44s} (1950)
GRB_DEC:         +31.557d {+31d 33' 26"} (J2000),
                 +31.441d {+31d 26' 29"} (current),
                 +31.822d {+31d 49' 20"} (1950)
GRB_DATE:        19512 TJD;   298 DOY;   21/10/25
GRB_TIME:        18620.03 SOD {05:10:20.03} UT
TRIGGER_INDEX:   20000
GRB_PHI:         -154.23 [deg]
GRB_THETA:         9.75 [deg]
DELTA_TIME:      0.00 [sec]
TRIGGER_DUR:     64.000 [sec]
SOLN_STATUS:     0x13
RATE_SIGNIF:     0.00 [sigma]
IMAGE_SIGNIF:    8.05 [sigma]
LC_URL:          sw01081113000msb.lc
SUN_POSTN:       209.84d {+13h 59m 22s}  -12.17d {-12d 10' 17"}
SUN_DIST:         62.80 [deg]   Sun_angle= 3.1 [hr] (West of Sun)
MOON_POSTN:       81.48d {+05h 25m 56s}  +25.10d {+25d 06' 11"}
MOON_DIST:        70.15 [deg]
MOON_ILLUM:      82 [%]
GAL_COORDS:      196.08, 63.15 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS:      151.29, 22.18 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS:        SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS:        The next comments were copied from the BAT_POS Notice:
COMMENTS:        This is an image trigger.
COMMENTS:        A point_source was found.
COMMENTS:        This does not match any source in the on-board catalog.
COMMENTS:        This does not match any source in the ground catalog.
COMMENTS:        This is a GRB.
COMMENTS:        This trigger occurred at longitude,latitude = 87.85,13.59 [deg].
```

103.5 s
7.7×10^{-7} erg cm^{-2}
0.5 phot/cm^2 s

A

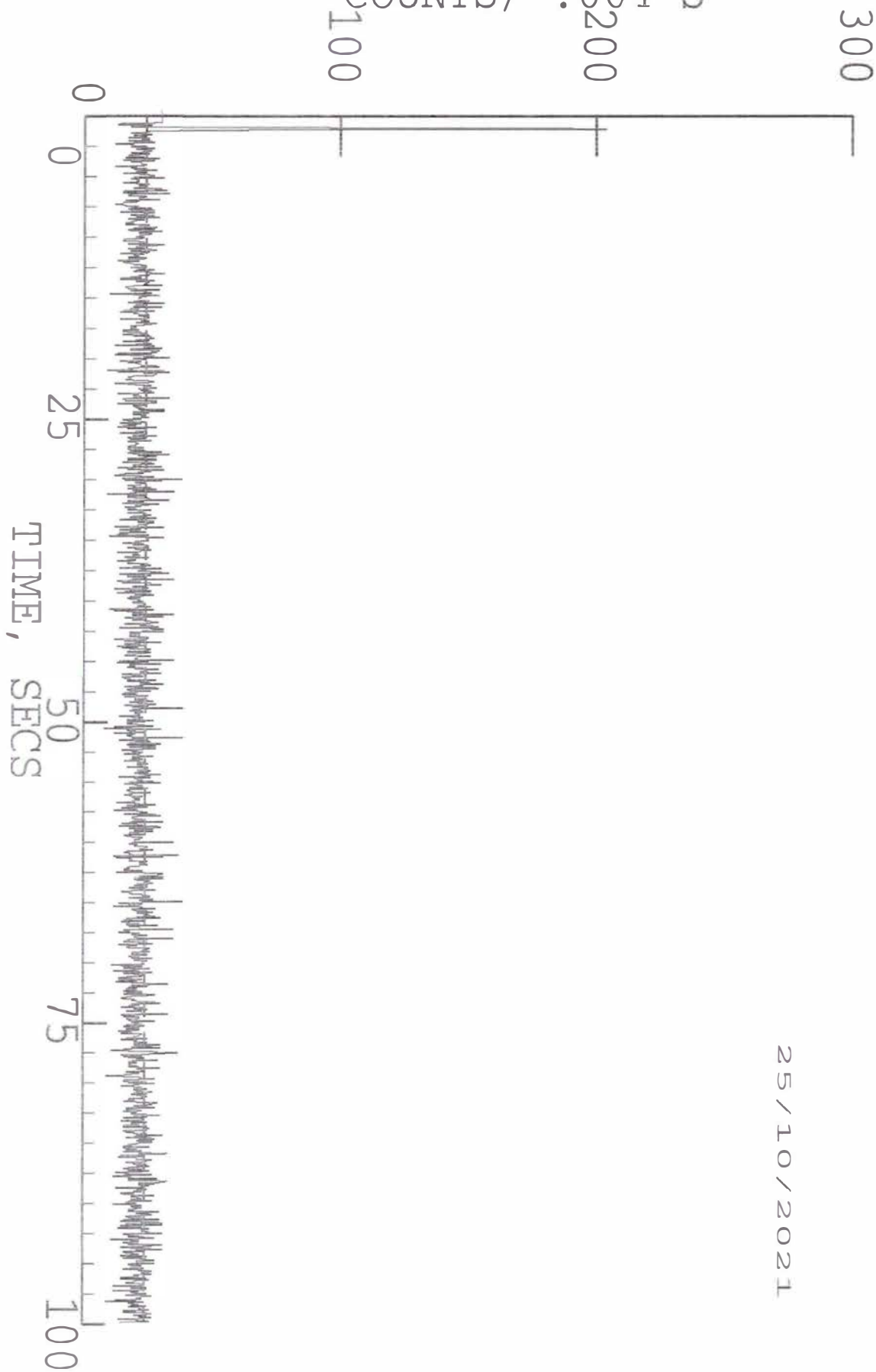
BAT 25/10/21 18620.038 05:10:20.038

25- 100 keV

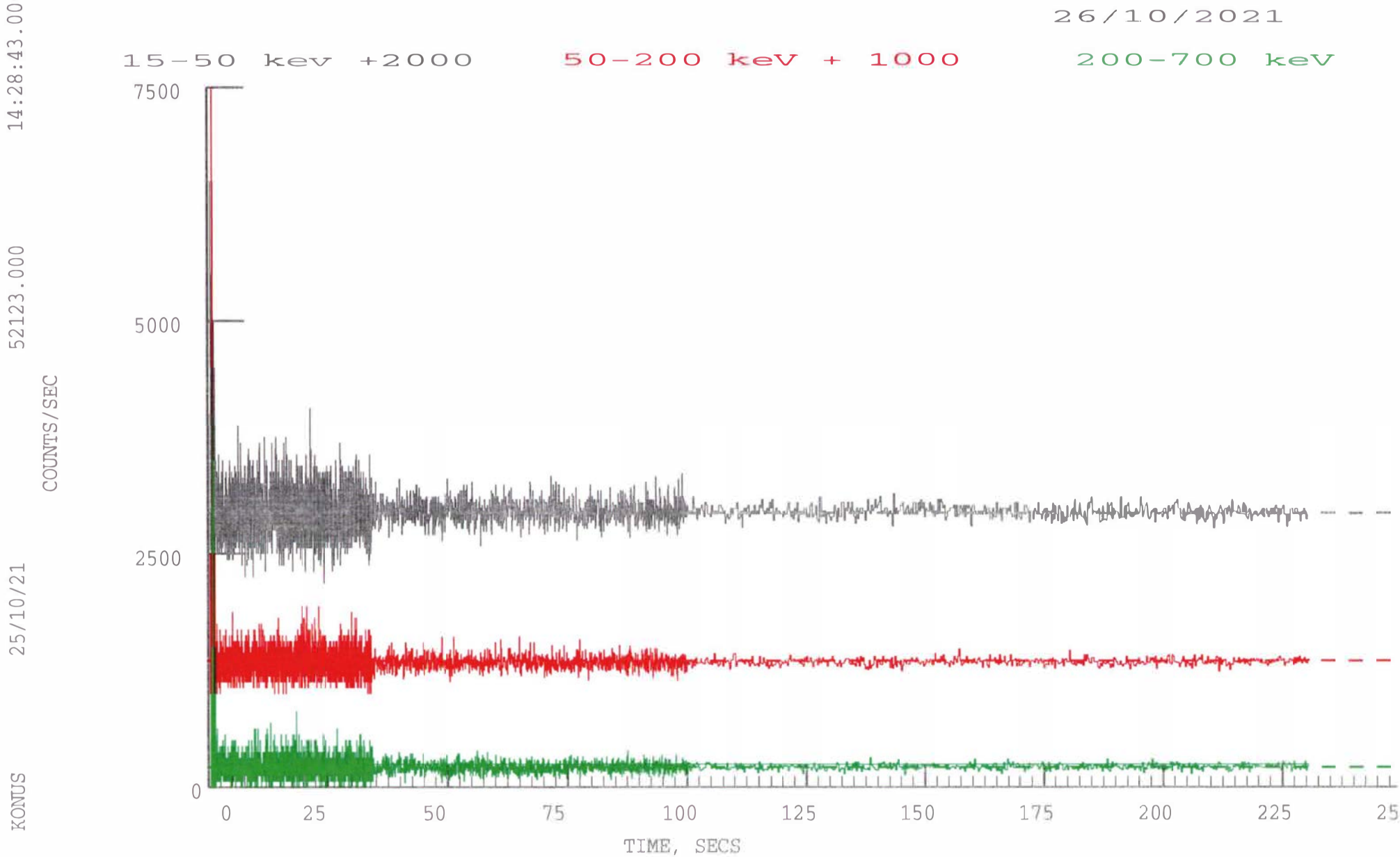


B

KONUS 25/10/21 52123.861 14:28:43.861



B


26/10/2021
15-50 kev +2000
50-200 keV + 1000
200-700 keV
14:28:43.000
52123.000
25/10/21
KONUS
COUNTS/SEC
7500
5000
2500
0
0
25
50
75
100
125
150
175
200
225
25
TIME, SECS

B

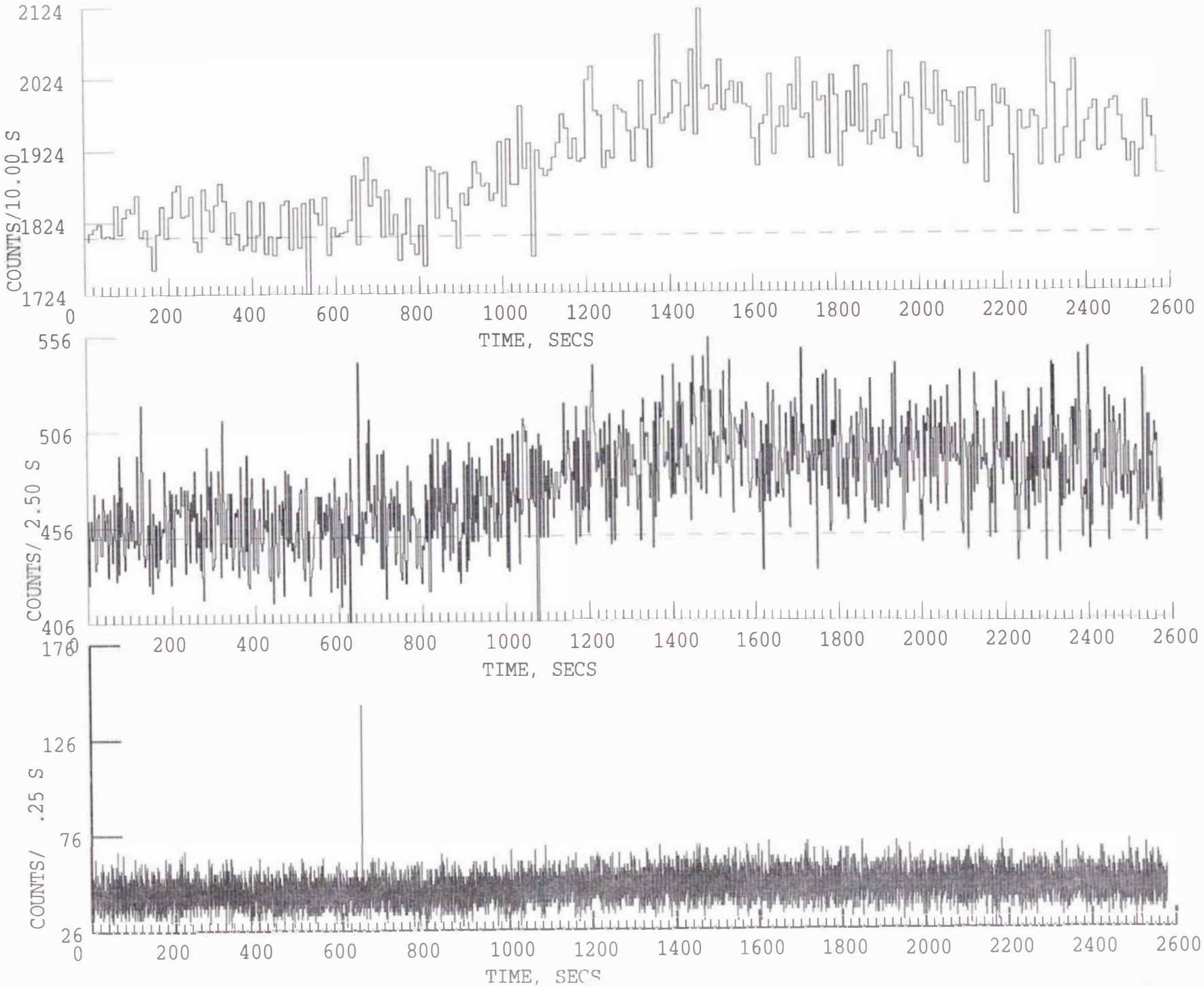
14:06:45.130

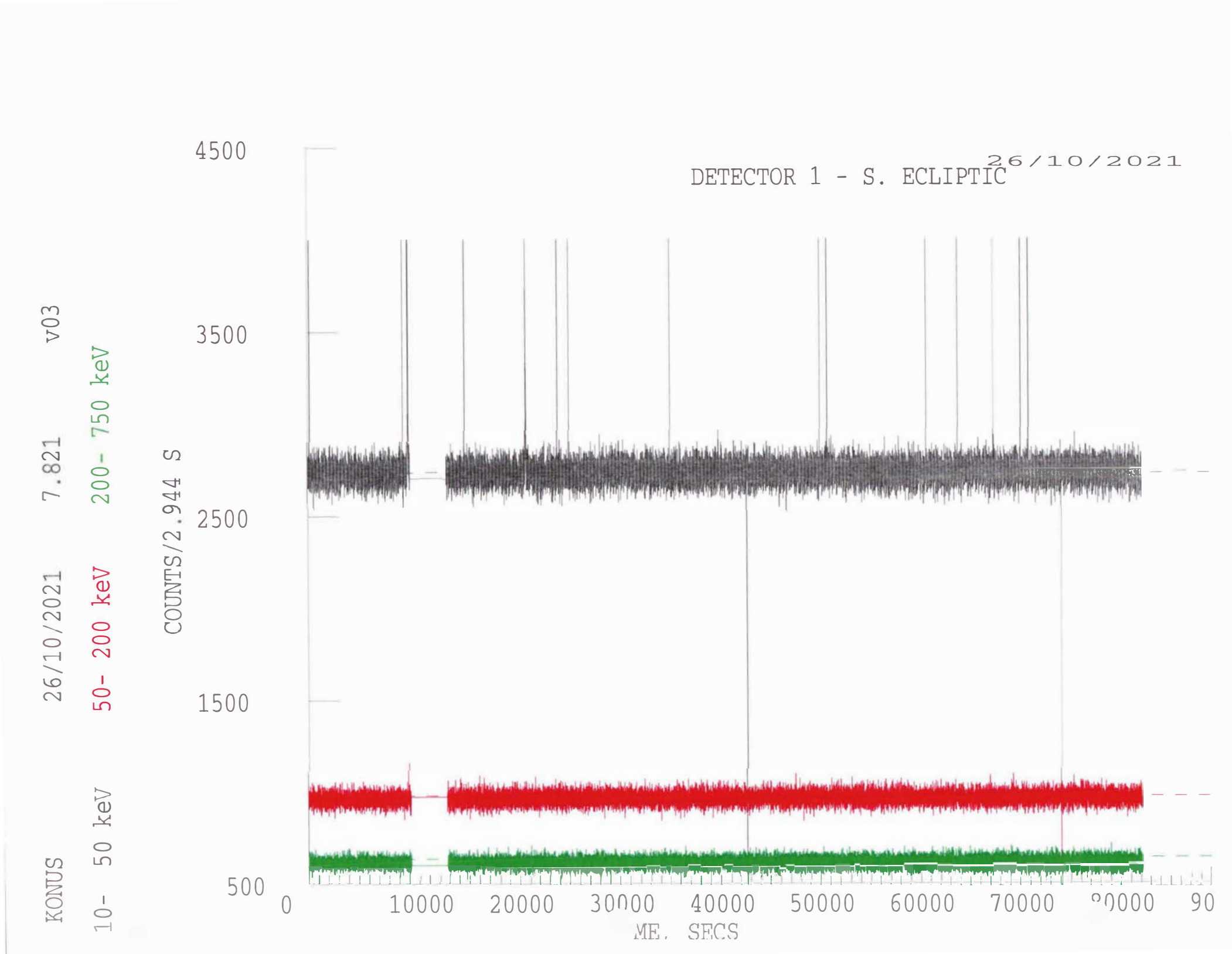
50805.130

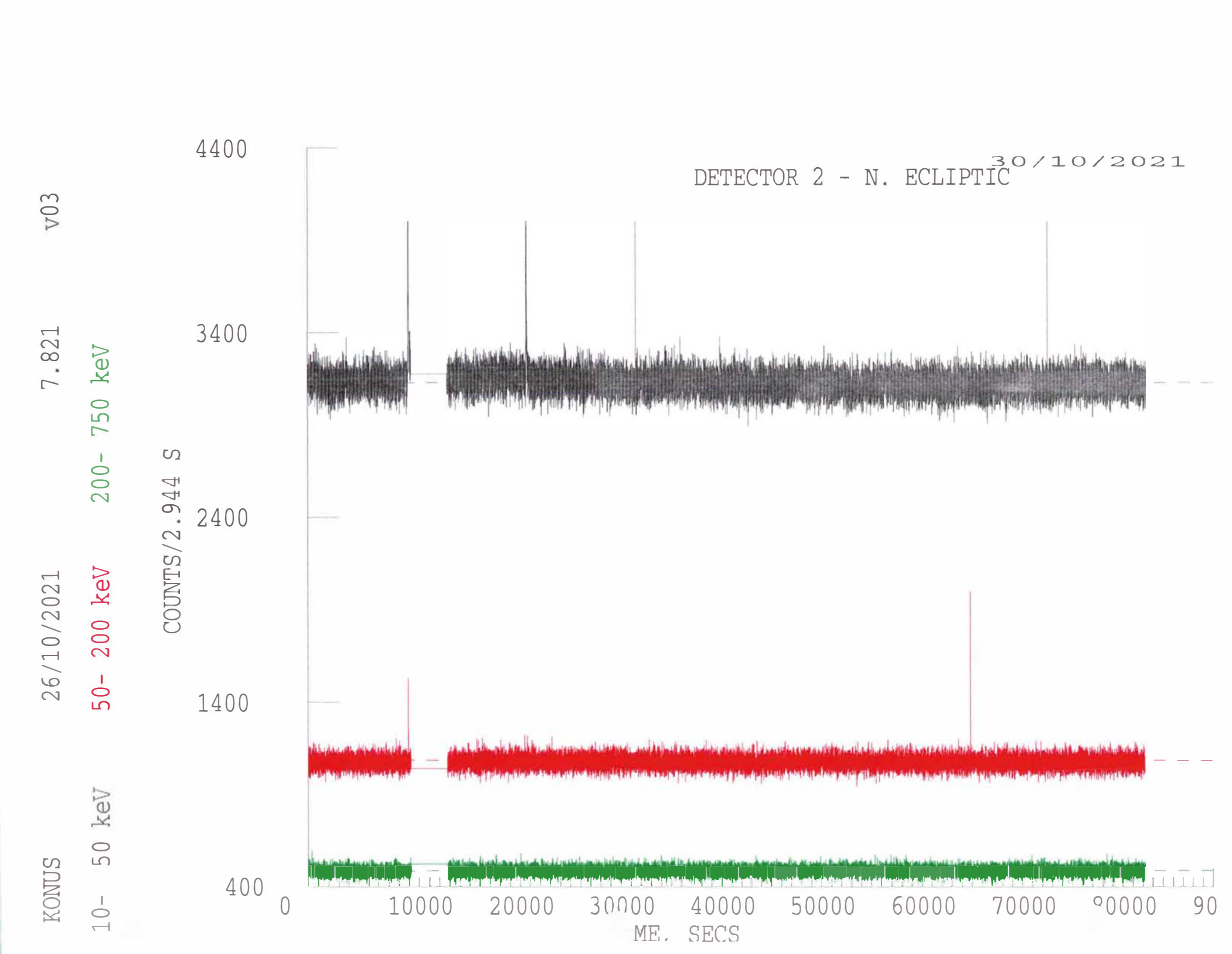
25/10/21

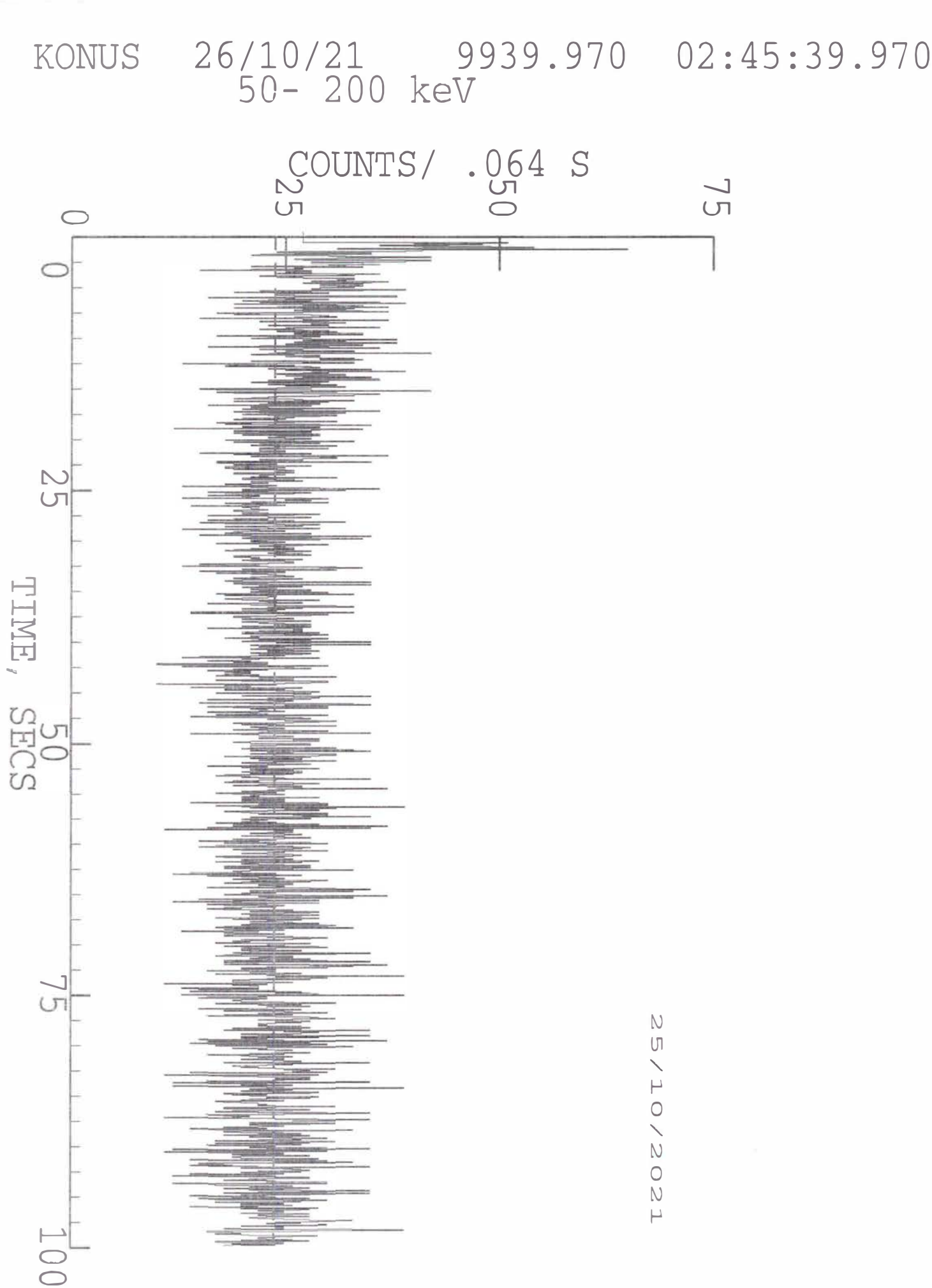
50-3000 keV

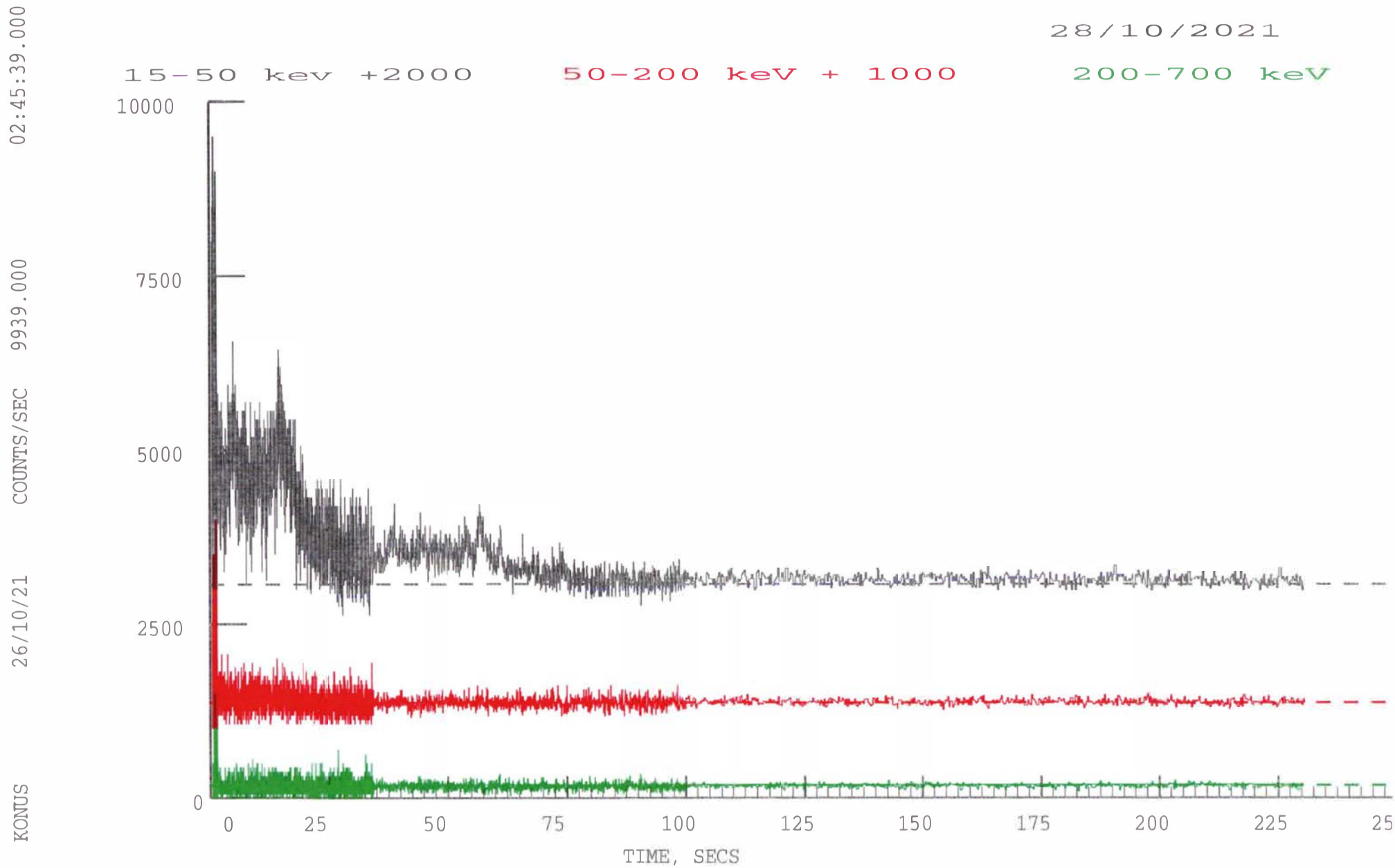
ODYSSEY



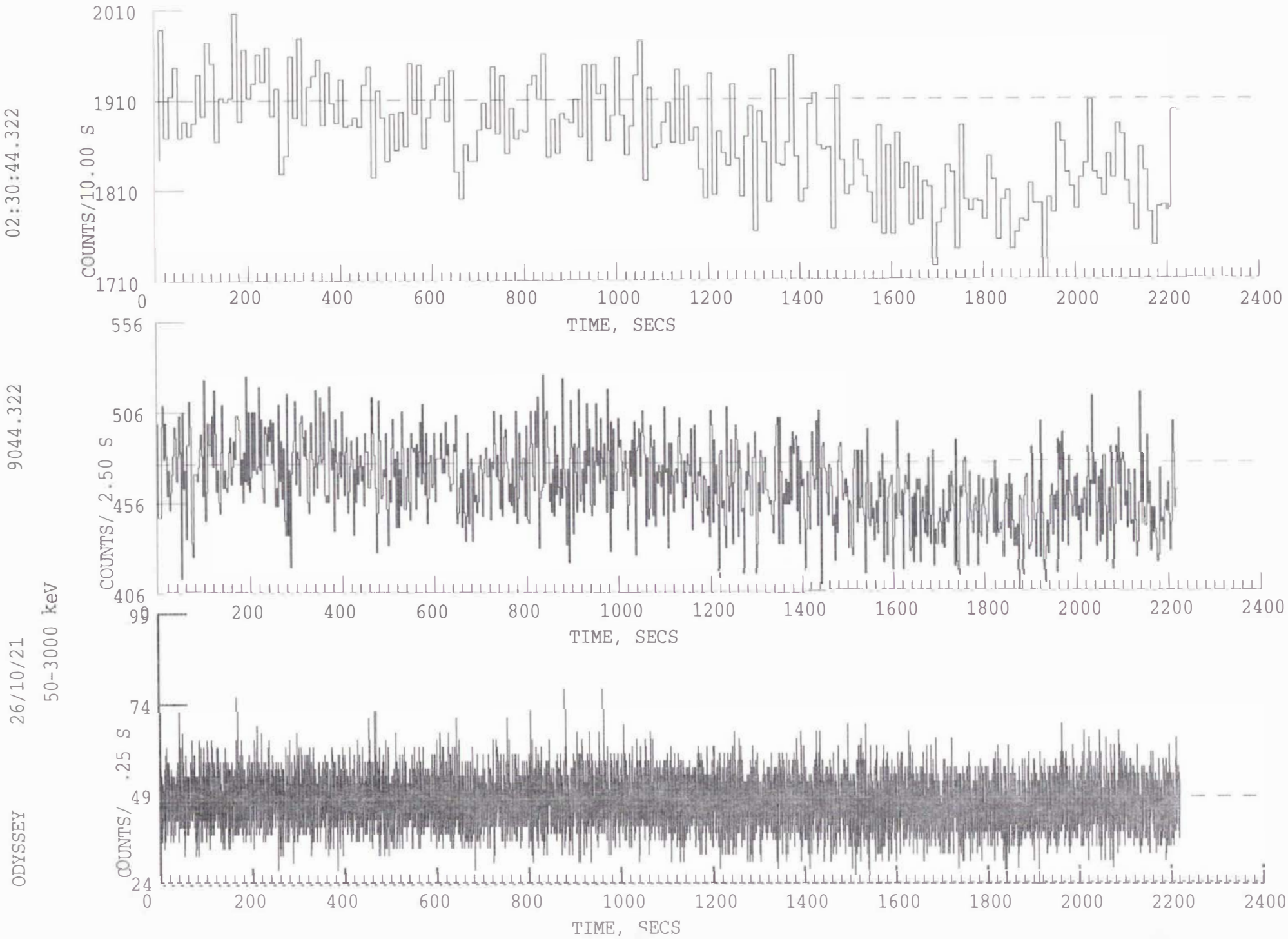

DETECTOR 1 - S. ECLIPTIC
26/10/2021
KONUS
26/10/2021
7.821
v03
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
4500
3500
2500
1500
500
0
10000
20000
30000
40000
50000
60000
70000
90
ME. SECS


KONUS
26/10/2021
7.821
v03
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
30/10/2021
COUNTS/2.944 S
4400
3400
2400
1400
400
0
10000
20000
30000
40000
50000
60000
70000
80000
90
ME. SECS


KONUS 26/10/21 9939.970 02:45:39.970
50- 200 keV
COUNTS/ .064 S
0
25
50
75
0
25
50
75
100
TIME, SECS
25/10/2021


KONUS
26/10/21
COUNTS/SEC
9939.000
02:45:39.000
28/10/2021
15-50 kev +2000
50-200 keV + 1000
200-700 keV
10000
7500
5000
2500
0
0
25
50
75
100
125
150
175
200
225
25
TIME, SECS

27/10/2021


02:30:44.322
9044.322
26/10/21
50-3000 keV
ODYSSEY
2010
1910
1810
1710
COUNTS/10.00 S
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
TIME, SECS
556
506
456
406
COUNTS/ 2.50 S
99
74
49
24
COUNTS/ .25 S

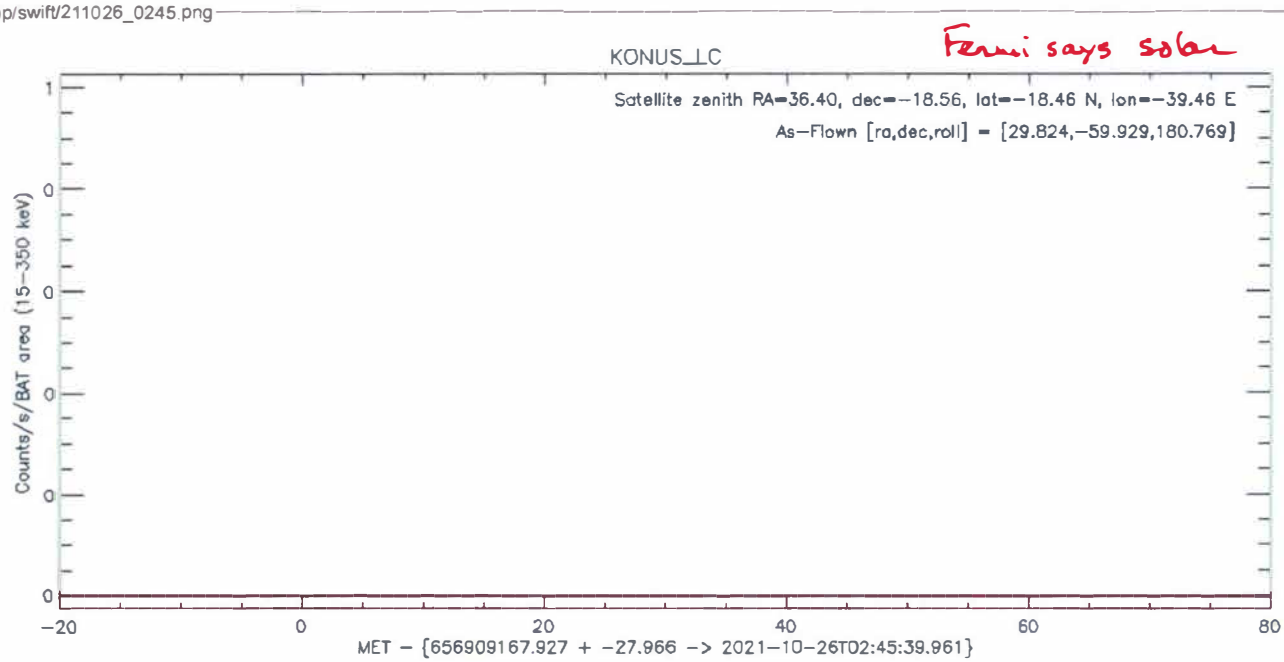
Subject: BAT lightcurve for trigger at 211026_0245
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/25/2021, 11:53 PM
To: aaron.tohu@gmail.com, vestrand@lanl.gov, palmer+automatic_lightcurve@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, mkippen@lanl.gov, dmopalmer@gmail.com, ipn@ssl.berkeley.edu, gbm-burst-advocate@lists.nasa.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656909167.927
Swift Zenith(RA,dec):          36.40, -18.56
Swift Location(lon,lat,alt):   -39.46 E, -18.46 N, 546 km
Time(MET + UTCF -> UT):    656909167.927 + -27.966 -> 2021-10-26T02:45:39.961
YYMMDD_SOD:                    211026_09939.961       DOY=299
Obs Sequence Number:           00074650017
Obs Target Name:               saa-cold-10-07
Obs Date and Times:            2021-10-26   02:33:34 - 03:00:30
Obs Pointing(ra,dec,roll):     29.824, -59.929, 180.77
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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/tmp/swift/211026_0245.png



Attachments:

/tmp/swift/211026_0245_bat64ms_ipn	87.0 KB
/tmp/swift/211026_0245.png	7.3 KB

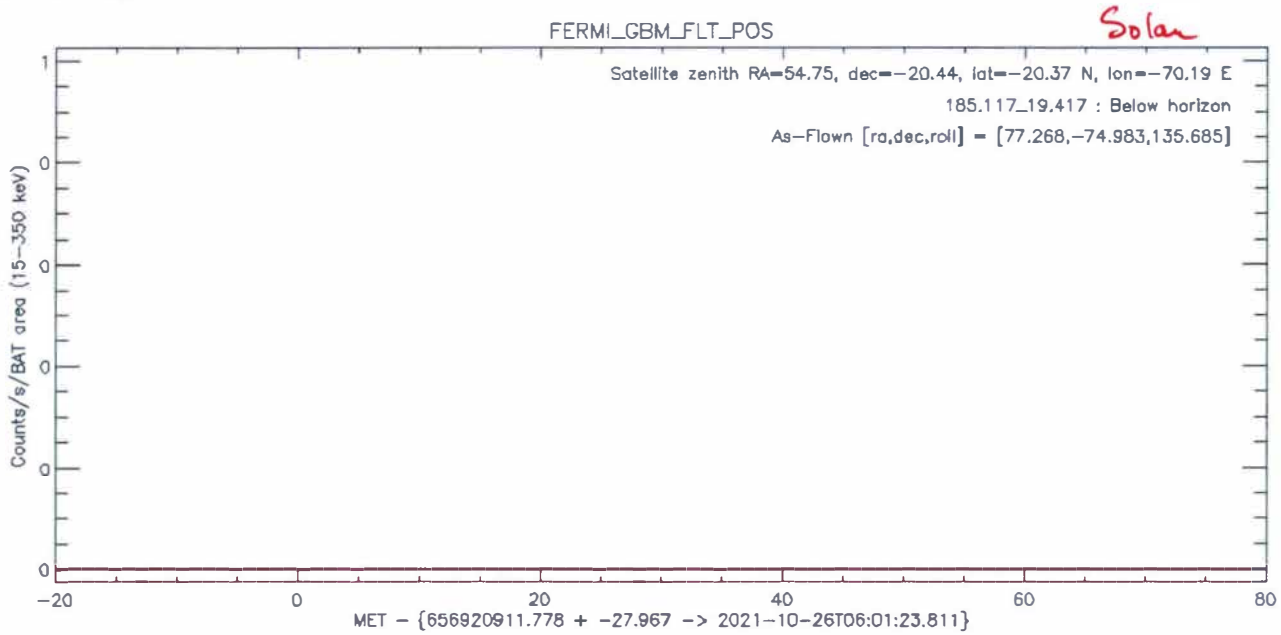
Subject: BAT lightcurve for trigger at 211026_0601
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/26/2021, 2:01 AM
To: dmopalmer@gmail.com, palmer+automatic_lightcurve@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, aaron.tohu@gmail.com, vestrand@lanl.gov, ipn@ssl.berkeley.edu, gbm-burst-advocate@lists.nasa.gov, mkippen@lanl.gov

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```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656920911.778 -s 185.117_19.417
Swift Zenith(RA,dec):          54.75, -20.44
Swift Location(lon,lat,alt):  -70.19 E, -20.37 N, 548 km
Time(MET + UTCF -> UT):   656920911.778 + -27.967 -> 2021-10-26T06:01:23.811
YYMMDD_SOD:                    211026_21683.811       DOY=299
Obs Sequence Number:           00074193167
Obs Target Name:               saa-cold-91-06
Obs Date and Times:            2021-10-26   05:56:34 - 06:20:29
Obs Pointing(ra,dec,roll):     77.268, -74.983, 135.69
185.117_19.417_imageloc (boresight_dist, angle): (113, -124)
185.117_19.417_exposure (cm^2 cos adjusted): 0
185.117_19.417_altitude: -21 (down)
```

--
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—/tmp/swift/211026_0601.png



—Attachments:

/tmp/swift/211026_0601_bat64ms_ipn	87.0 KB
/tmp/swift/211026_0601.png	7.8 KB

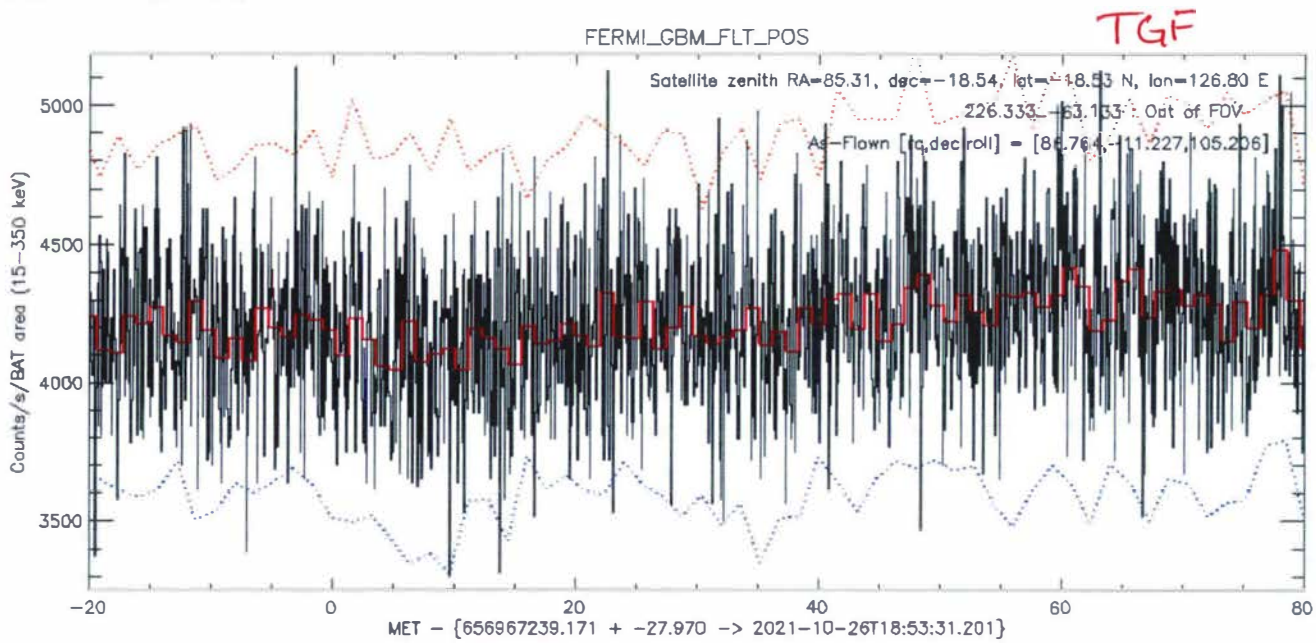
Subject: BAT lightcurve for trigger at 211026_1853
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/26/2021, 2:16 PM
To: palmer+automatic_lightcurve@lanl.gov, ipn@ssl.berkeley.edu, aaron.tohu@gmail.com, bat_team@bigbang.gsfc.nasa.gov, dmopalmer@gmail.com, gbm-burst-advocate@lists.nasa.gov, vestrand@lanl.gov, mkippen@lanl.gov

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```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 656967239.171 -s 226.333_-63.133
Swift Zenith(RA,dec):          85.31, -18.54
Swift Location(lon,lat,alt):   126.80 E, -18.53 N, 551 km
Time(MET + UTCF -> UT):    656967239.171 + -27.970 -> 2021-10-26T18:53:31.201
YYMMDD_SOD:                    211026_68011.201       DOY=299
Obs Sequence Number:           03111076044
Obs Target Name:               TOI-892
Obs Date and Times:            2021-10-26   18:52:34 - 18:58:31
Obs Pointing(ra,dec,roll):     86.764, -11.227, 105.21
226.333_-63.133_imageloc (boresight_dist, angle): (99, -32)
226.333_-63.133_exposure (cm^2 cos adjusted): 0
226.333_-63.133_altitude: 20 (depressed but unattenuated)
```

--
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/tmp/swift/211026_1853.png

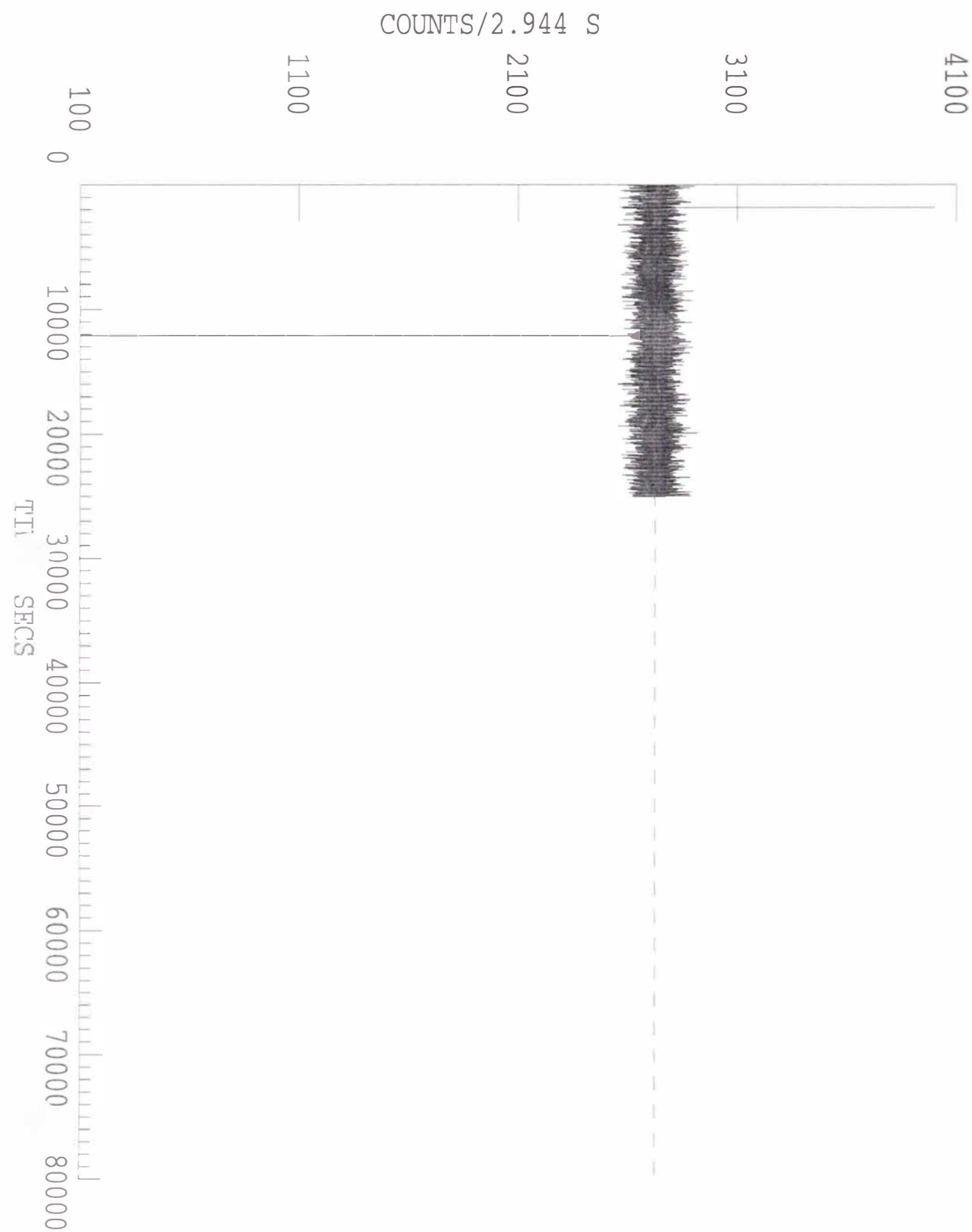


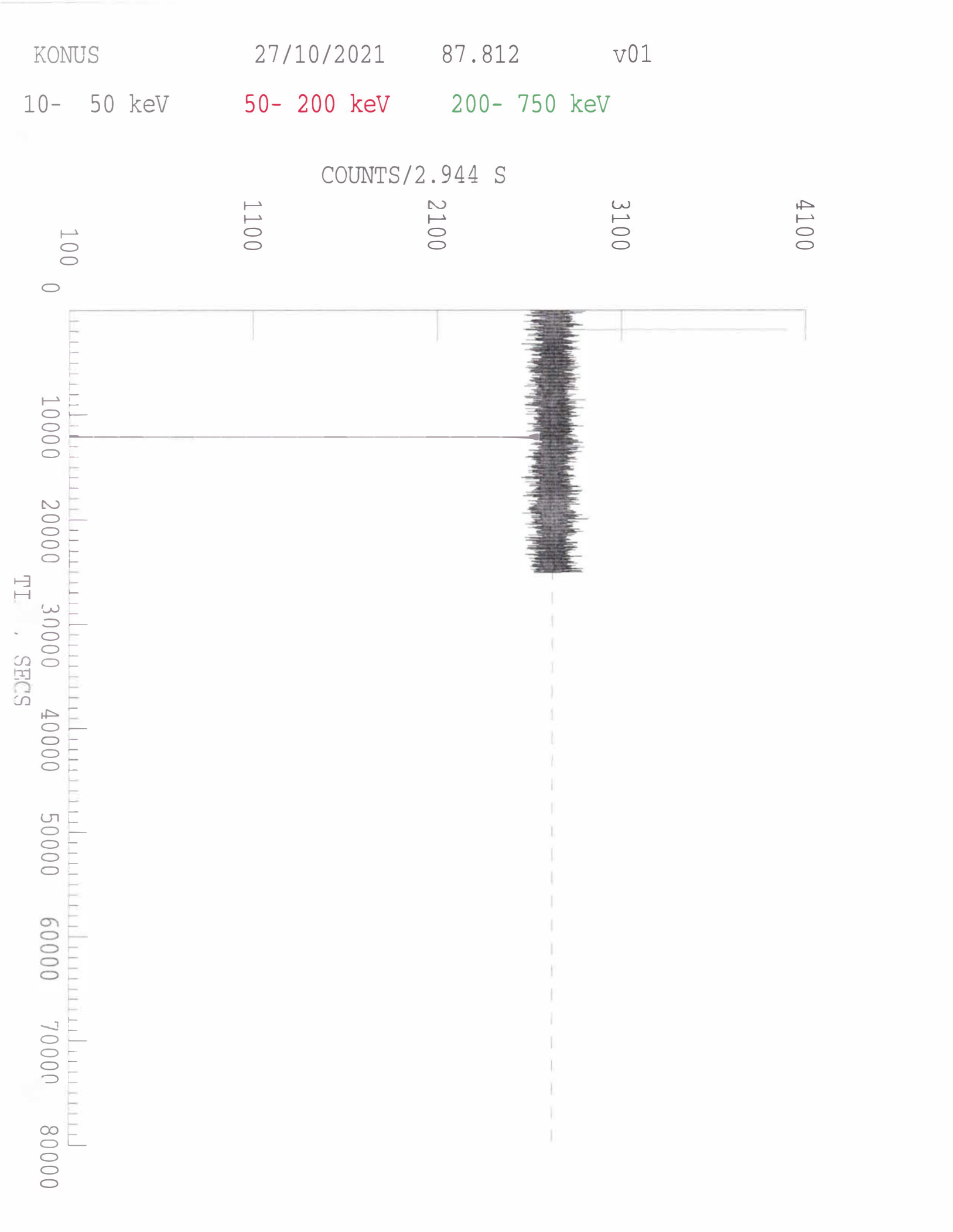
Attachments:

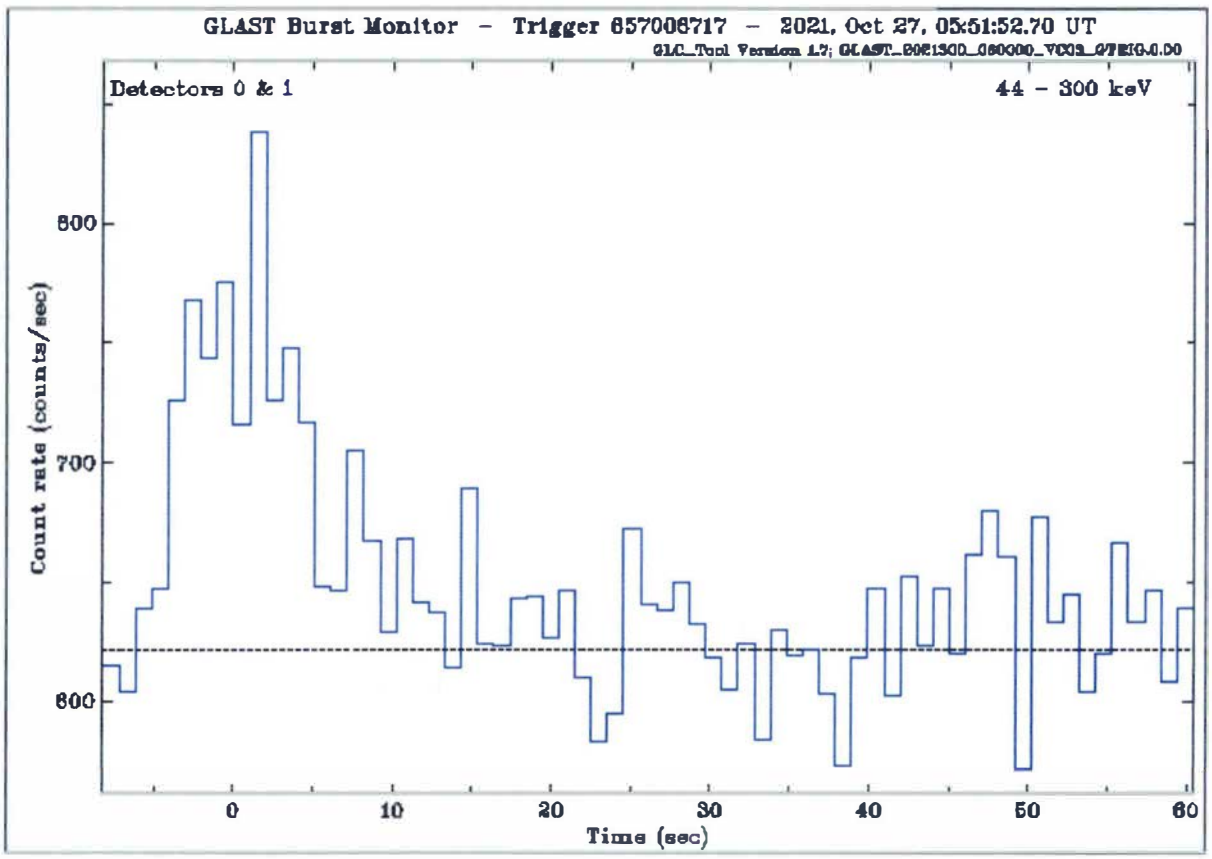
/tmp/swift/211026_1853_bat64ms_ipn	87.1 KB
/tmp/swift/211026_1853.png	18.8 KB

KONUS 27/10/2021 87.812 v01

10- 50 keV 50- 200 keV 200- 750 keV




KONUS 27/10/2021 87.812 v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
100
0
1100
2100
3100
4100
10000
20000
30000
40000
50000
60000
70000
80000
TI , SECS


GLAST Burst Monitor - Trigger 657006717 - 2021, Oct 27, 05:51:52.70 UT
Detectors 0 & 1
44 - 300 keV
800
700
600
Count rate (counts/sec)
0
10
20
30
40
50
60
Time (sec)

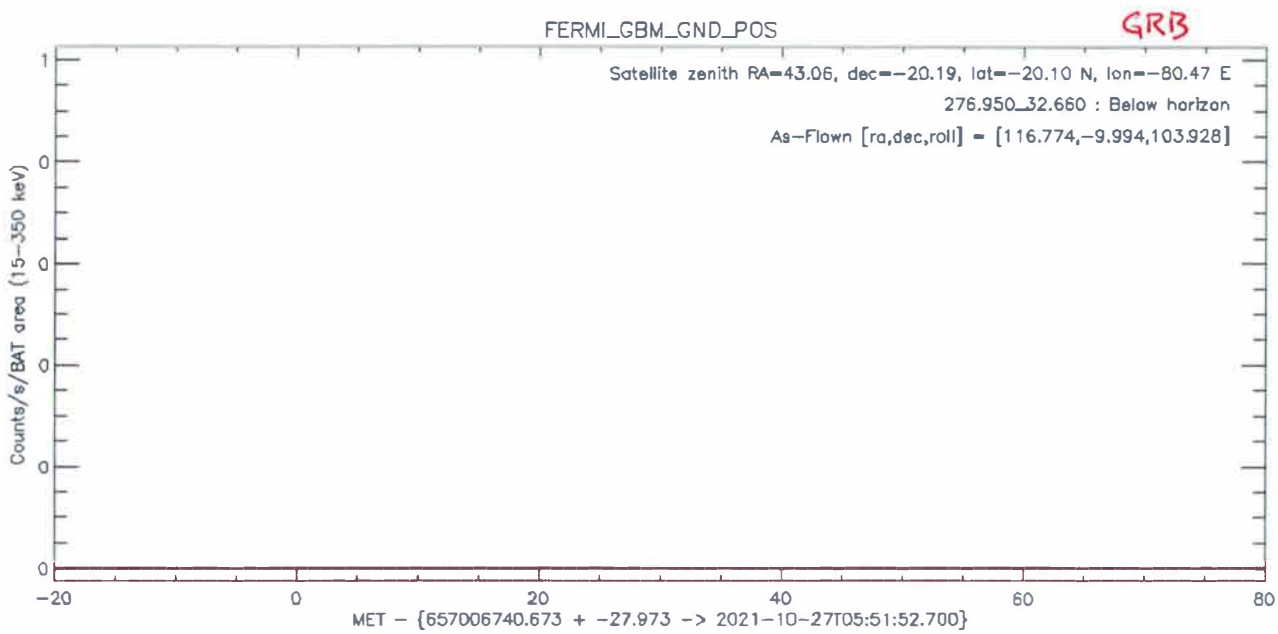
Subject: BAT lightcurve for trigger at 211027_0551
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/27/2021, 1:45 AM
To: gbm-burst-advocate@lists.nasa.gov, mkippen@lanl.gov, aaron.tohu@gmail.com, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu, vestrand@lanl.gov, palmer+automatic_lightcurve@lanl.gov, dmopalmer@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 657006740.673 -s 276.950_32.660
Swift Zenith(RA,dec):          43.06, -20.19
Swift Location(lon,lat,alt):   -80.47 E, -20.10 N, 547 km
Time(MET + UTCF -> UT):    657006740.673 + -27.973 -> 2021-10-27T05:51:52.700
YYMMDD_SOD:                    211027_21112.700       DOY=300
Obs Sequence Number:           00074307037
Obs Target Name:               saa-cold-164-06
Obs Date and Times:            2021-10-27   05:49:34 - 06:13:33
Obs Pointing(ra,dec,roll):     116.774, -9.994, 103.93
276.950_32.660_imageloc (boresight_dist, angle): (151, -158)
276.950_32.660_exposure (cm^2 cos adjusted): 0
276.950_32.660_altitude: -18 (down)
```

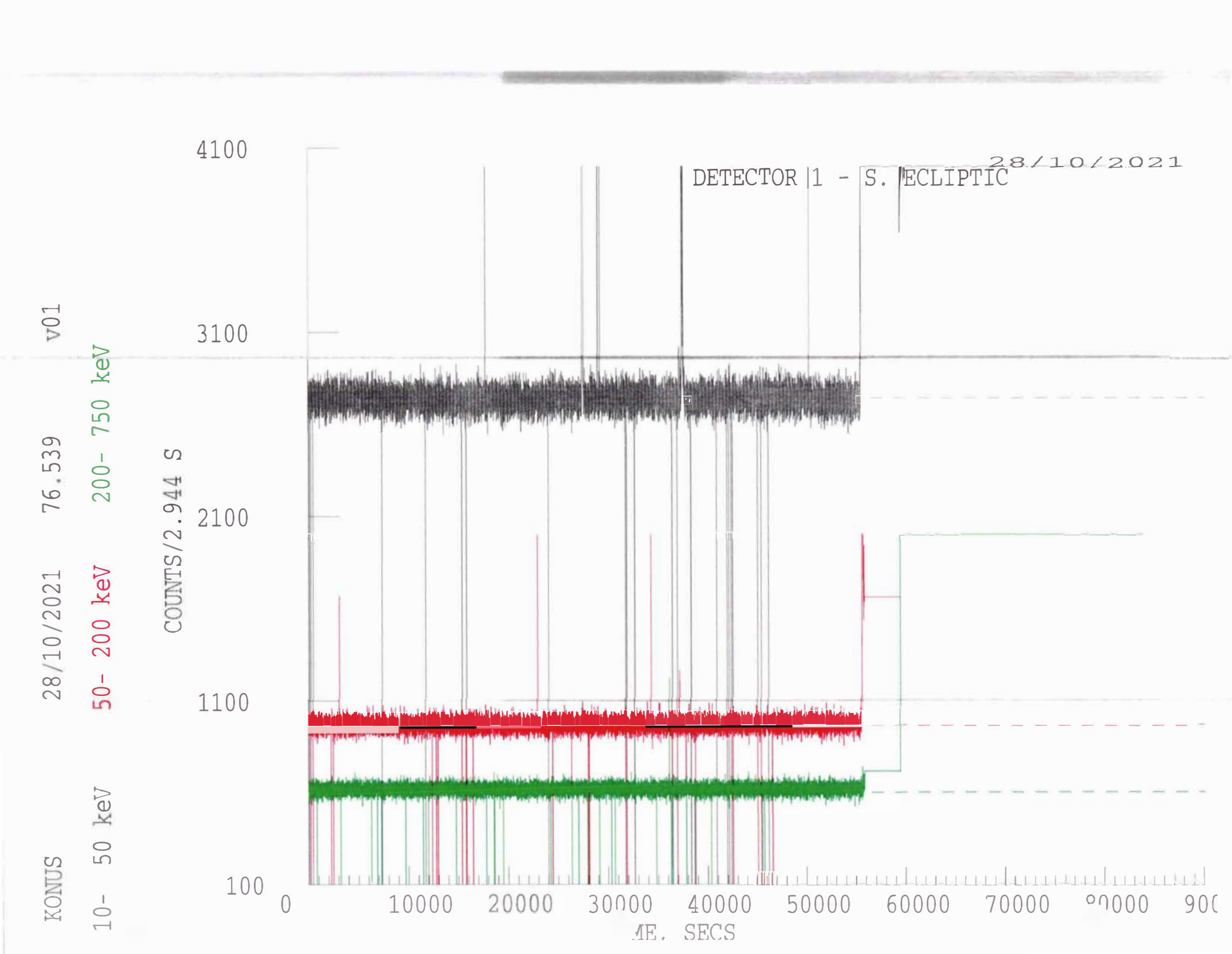
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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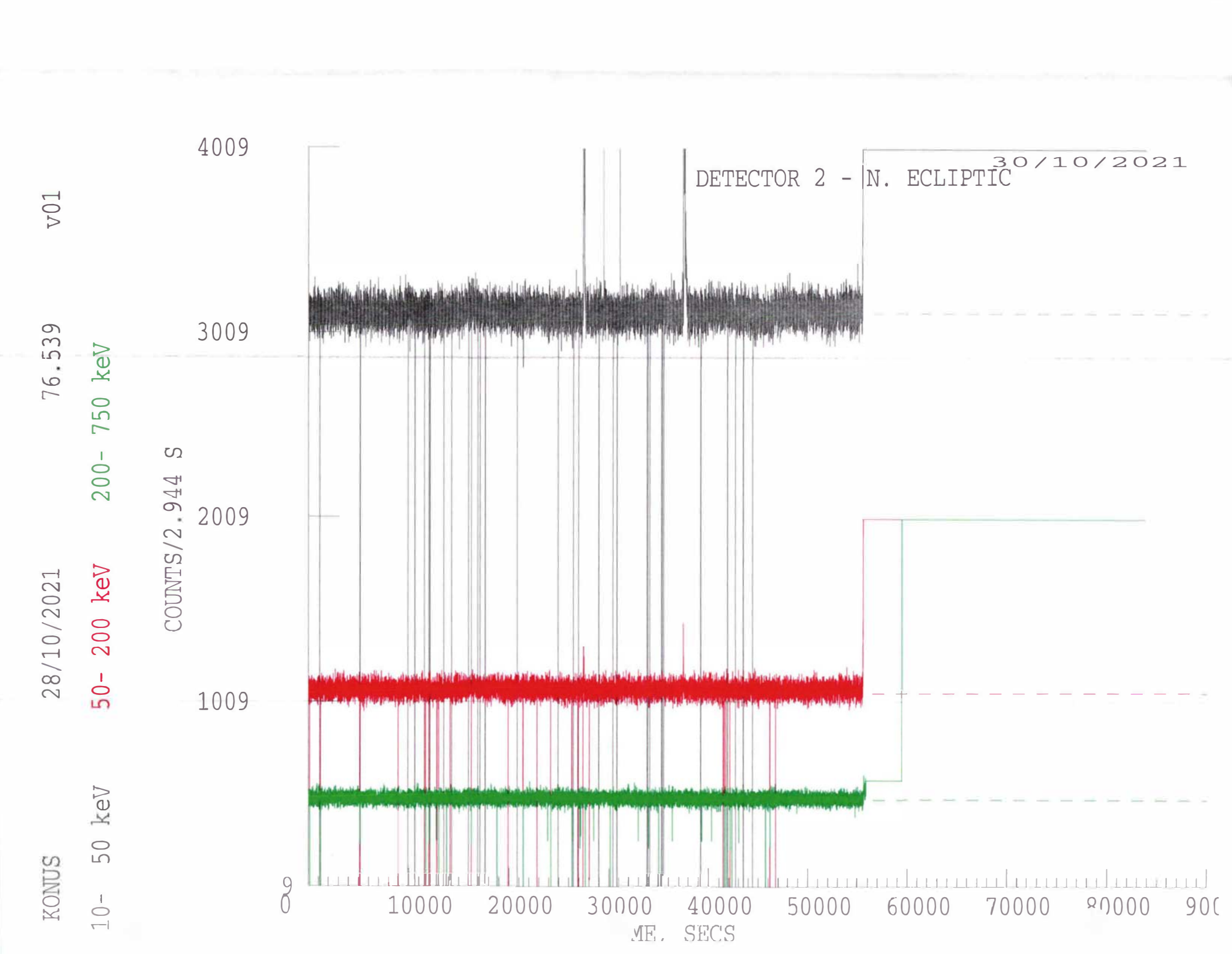
/tmp/swift/211027_0551.png



Attachments:

/tmp/swift/211027_0551_bat64ms_ipn	87.1 KB
/tmp/swift/211027_0551.png	7.9 KB


DETECTOR 1 - S. ECLIPTIC
28/10/2021
4100
3100
2100
1100
100
COUNTS/2.944 S
0
10000
20000
30000
40000
50000
60000
70000
ME. SECS
KONUS
28/10/2021
76.539
v01
10- 50 keV
50- 200 keV
200- 750 keV


KONUS
28/10/2021
76.539
v01
10- 50 keV
50- 200 keV
200- 750 keV
DETECTOR 2 - N. ECLIPTIC
30/10/2021
COUNTS/2.944 S
4009
3009
2009
1009
9
0
10000
20000
30000
40000
50000
60000
70000
80000
90000
ME. SECS

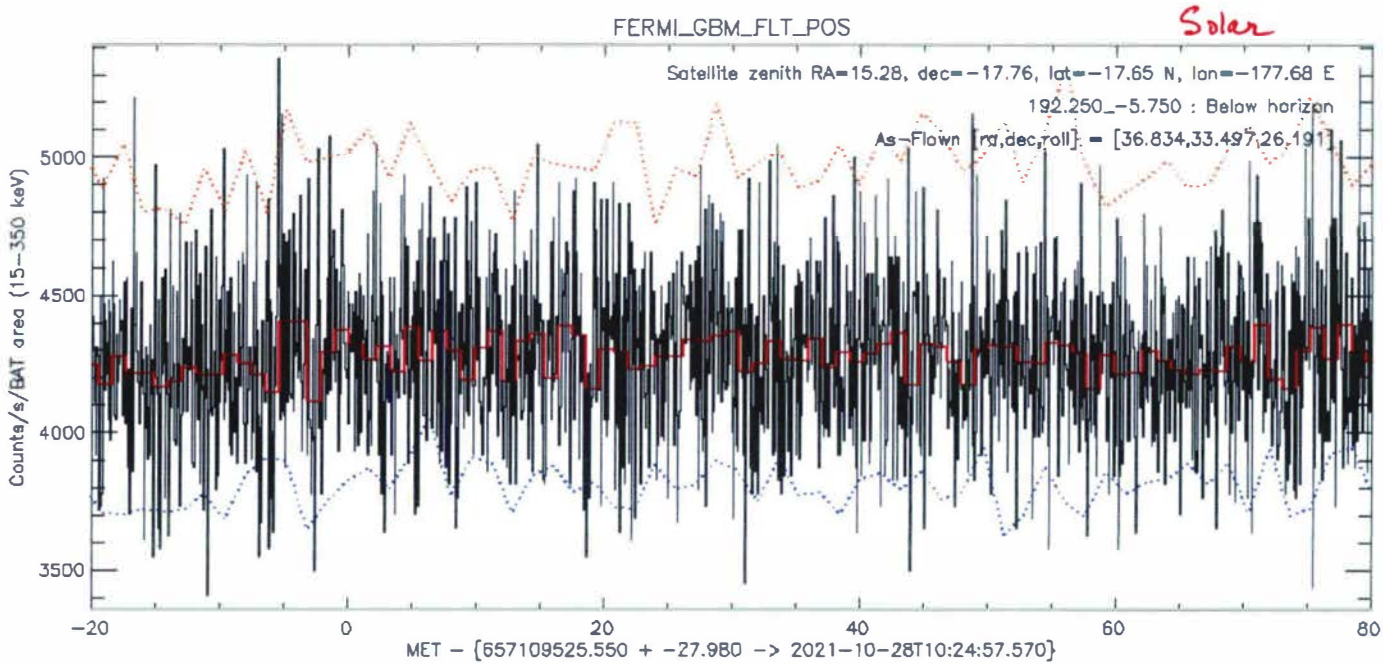
Subject: BAT lightcurve for trigger at 211028_1024
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/28/2021, 10:00 AM
To: bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov, ipn@ssl.berkeley.edu, vestrand@lanl.gov, dmopalmer@gmail.com, gbm-burst-advocate@lists.nasa.gov, aaron.tohu@gmail.com, mkippen@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 657109525.550 -s 192.250_-5.750
Swift Zenith(RA,dec):          15.28, -17.76
Swift Location(lon,lat,alt):  -177.68 E, -17.65 N, 545 km
Time(MET + UTCF -> UT):    657109525.550 + -27.980 -> 2021-10-28T10:24:57.570
YYMMDD_SOD:                    211028_37497.570       DOY=301
Obs Sequence Number:           00014387020
Obs Target Name:               NGC 925
Obs Date and Times:            2021-10-28   10:10:34 - 10:37:32
Obs Pointing(ra,dec,roll):     36.834, 33.497, 26.19
192.250_-5.750_imageloc (boresight_dist, angle): (144, -71)
192.250_-5.750_exposure (cm² cos adjusted): 0
192.250_-5.750_altitude: -43 (down)
```

--
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—/tmp/swift/211028_1024.png



Attachments:

/tmp/swift/211028_1024.png	18.9 KB
/tmp/swift/211028_1024_bat64ms_ipn	87.0 KB

From kevinhurley+caf_=khurley2=ssl.berkeley.edu@berkeley.edu Thu Oct 28 03:25:56
Date: Thu, 28 Oct 2021 06:25:51 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/CALET_GBM_FLT_LIGHTCURVE

TITLE: GCN/CALET NOTICE
NOTICE_DATE: Thu 28 Oct 21 10:25:51 UT
NOTICE_TYPE: CALET GBM Flight Lightcurve
POINT_RA: 249.68d {+16h 38m 44s} (J2000),
POINT_DEC: -29.06d {-29d 03' 35"} (J2000),
TRIGGER_NUM: 1319451892
TRIGGER_DATE: 19515 TJD; 301 DOY; 21/10/28
TRIGGER_TIME: 37503.64 SOD {10:25:03.64} UT
TRIGGER_DET: 1 1 1 (HXM1 HXM2 SGM)
SIGNIFICANCE: 17.50 [sigma]
FOREGND_DUR: 4.00 [sec]
BACKGND_DUR1: 16.00 [sec]
ENERGY_BAND: 25-100 [keV]
SC_LON_LAT: 56.75,-29.10 [deg]
LC_URL: http://cgbm.calet.jp/cgbm_trigger/flight//1319451892/index.html
COMMENTS: CALET-GBM Flight Lightcurve.
COMMENTS:
COMMENTS: NOTE: This CALET_GBM_FLT_LC event is temporally(6.0<100sec) coi
COMMENTS: The LC_URL file will not be created until ~15 min after the tri

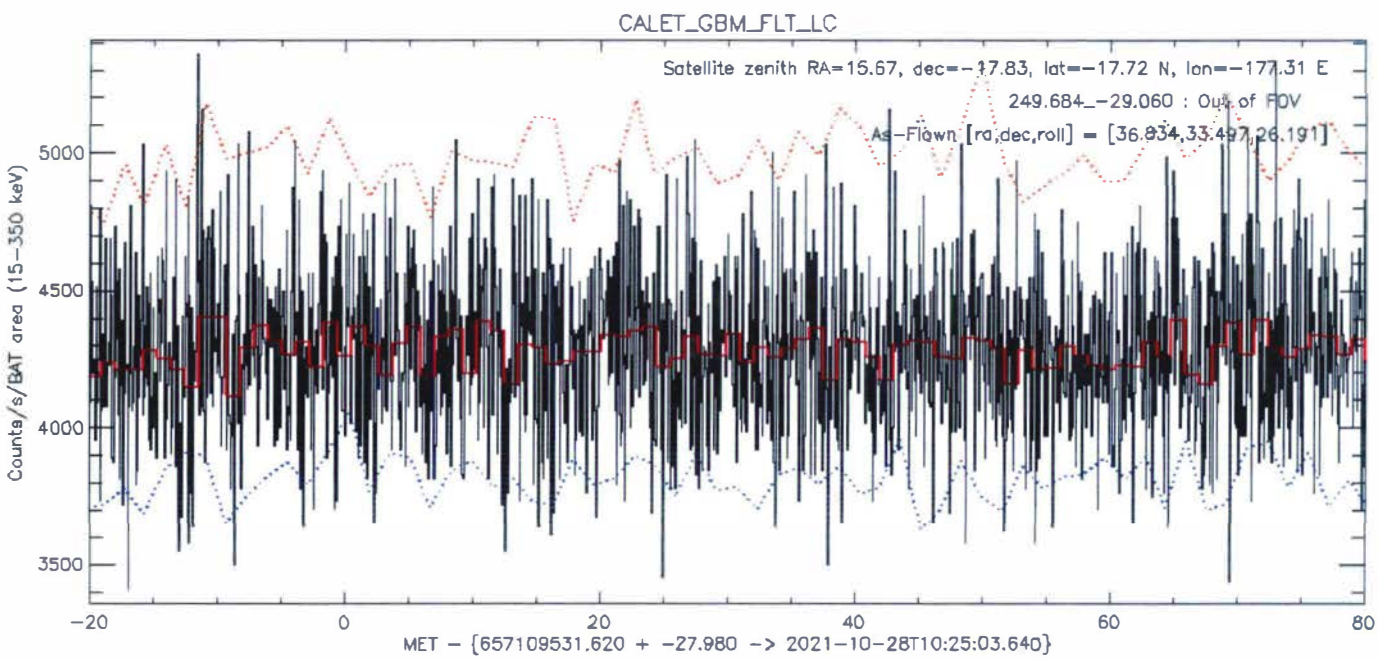
Subject: BAT lightcurve for trigger at 211028_1025
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/28/2021, 10:00 AM
To: aaron.tohu@gmail.com, bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov, palmer+automatic_lightcurve@lanl.gov, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com, ipn@ssl.berkeley.edu, mkippen@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 657109531.620 -s 249.684_-29.060
Swift Zenith(RA,dec):          15.67, -17.83
Swift Location(lon,lat,alt):  -177.31 E, -17.72 N, 545 km
Time(MET + UTCF -> UT):   657109531.620 + -27.980 -> 2021-10-28T10:25:03.640
YYMMDD_SOD:                    211028_37503.640       DOY=301
Obs Sequence Number:           00014387020
Obs Target Name:               NGC 925
Obs Date and Times:            2021-10-28   10:10:34 - 10:37:32
Obs Pointing(ra,dec,roll):     36.834, 33.497, 26.19
249.684_-29.060_imageloc (boresight_dist, angle): (152, 154)
249.684_-29.060_exposure (cm^2 cos adjusted): 0
249.684_-29.060_altitude: 3 (depressed but unattenuated)
```

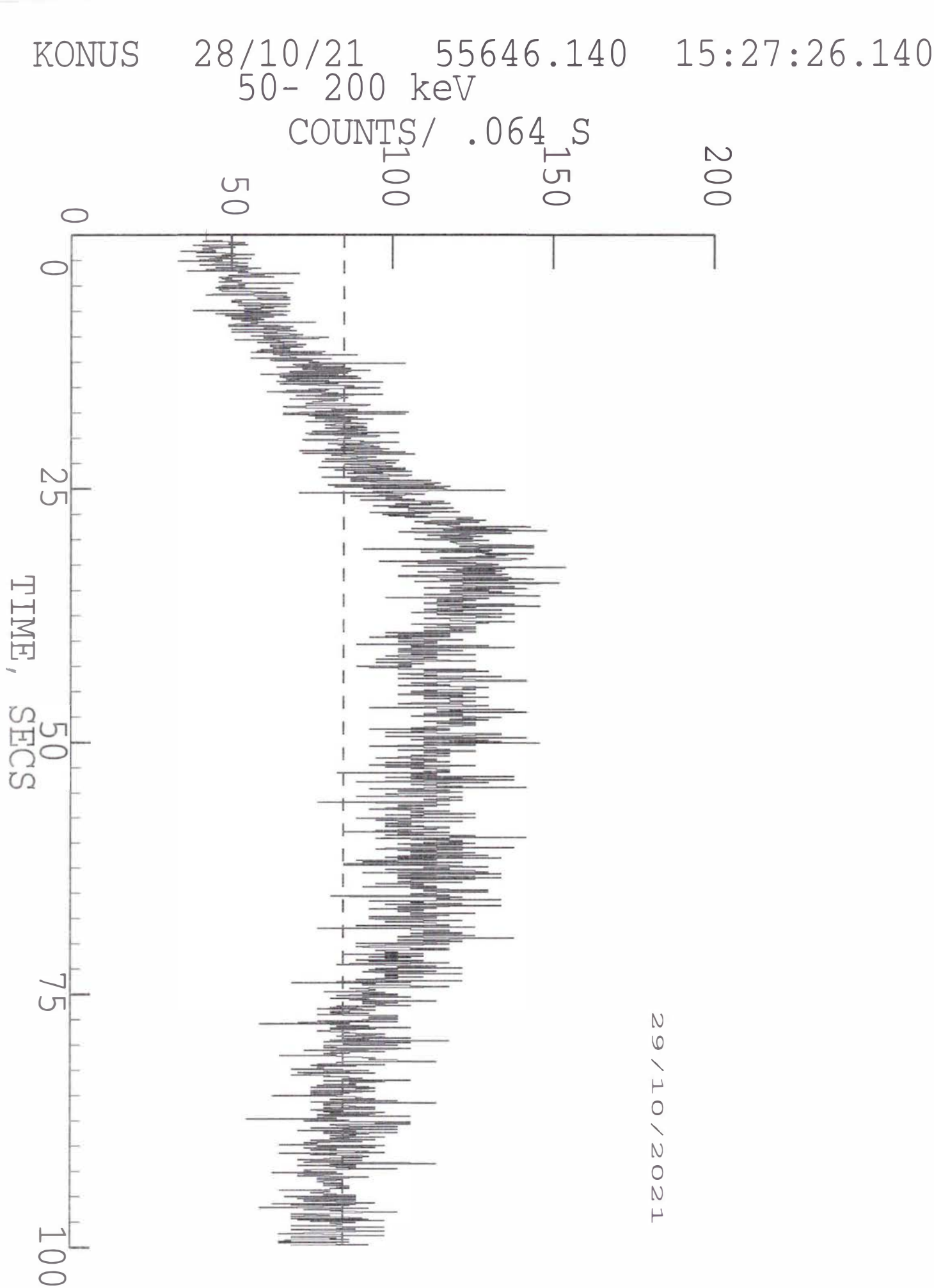
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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—/tmp/swift/211028_1025.png

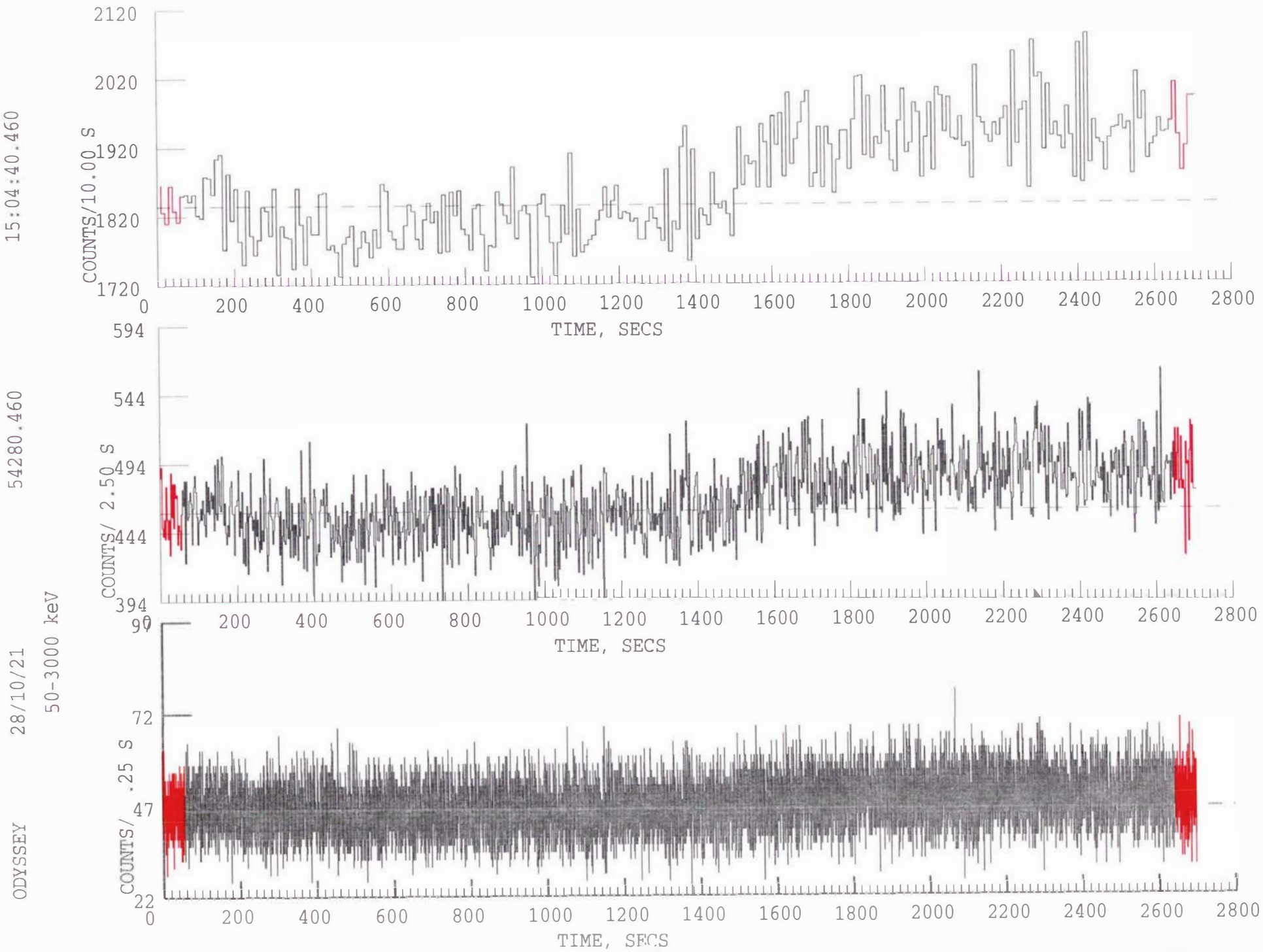


—Attachments:

/tmp/swift/211028_1025.png	18.4 KB
/tmp/swift/211028_1025_bat64ms_ipn	87.0 KB


KONUS 28/10/21 55646.140 15:27:26.140
50- 200 keV
COUNTS/ .064 S
0
50
100
150
200
0
25
50
75
100
TIME, SECS
29/10/2021

29/10/2021


15:04:40.460
54280.460
28/10/21
50-3000 keV
ODYSSEY
COUNTS/10.00 S
2120
2020
1920
1820
1720
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
TIME, SECS
COUNTS/ 2.50 S
594
544
494
444
394
90
TIME, SECS
COUNTS/ .25 S
72
47
22
0
TIME, SECS

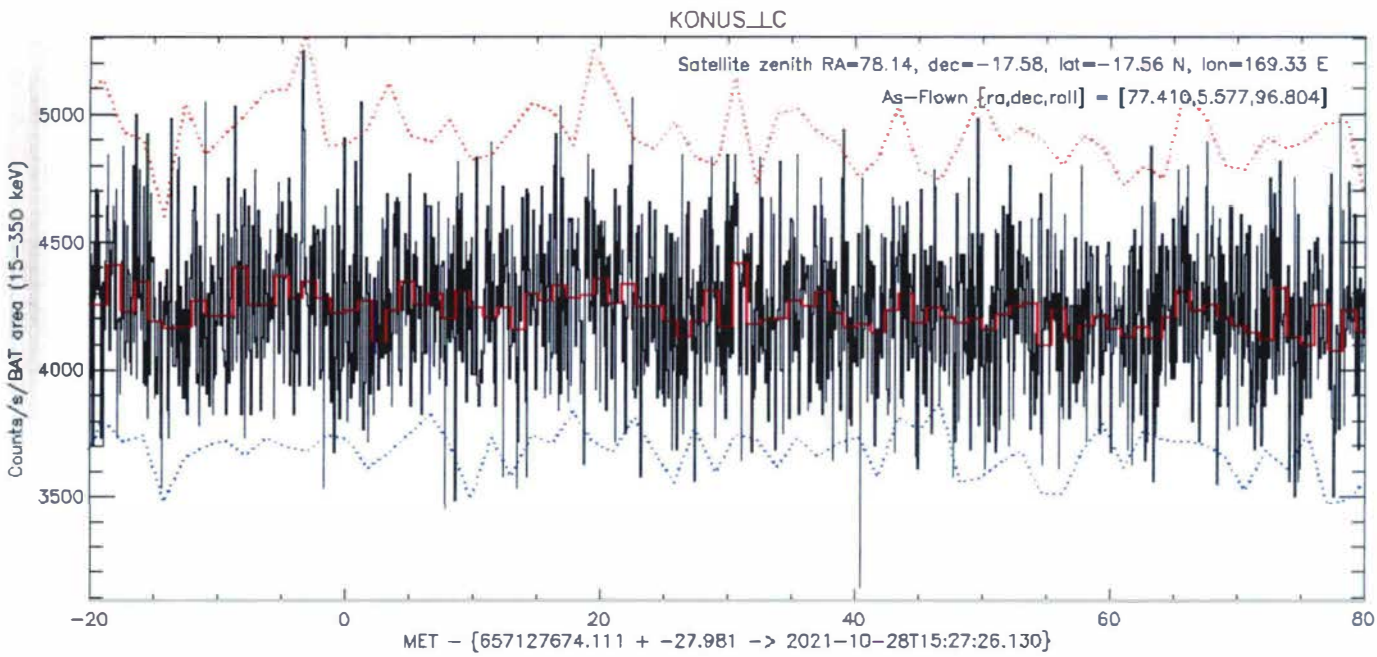
Subject: BAT lightcurve for trigger at 211028_1527
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/29/2021, 5:16 PM
To: mkippen@lanl.gov, gbm-burst-advocate@lists.nasa.gov, dmopalmer@gmail.com, vestrand@lanl.gov, palmer+automatic_lightcurve@lanl.gov, aaron.tohu@gmail.com, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 2021-10-28T15:27:26.130
Swift Zenith(RA,dec):         78.14, -17.58
Swift Location(lon,lat,alt):  169.33 E, -17.56 N, 548 km
Time(MET + UTCF -> UT):   657127674.111 + -27.981 -> 2021-10-28T15:27:26.130
YYMMDD_SOD:                   211028_55646.130       DOY=301
Obs Sequence Number:          00014870002
Obs Target Name:              TUVO-21yog
Obs Date and Times:           2021-10-28   15:24:34 - 15:35:29
Obs Pointing(ra,dec,roll):    77.410, 5.577, 96.80
```

--
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—/tmp/swift/211028_1527.png



—Attachments:

/tmp/swift/211028_1527.png	17.8 KB
/tmp/swift/211028_1527_bat64ms_ipn	87.0 KB

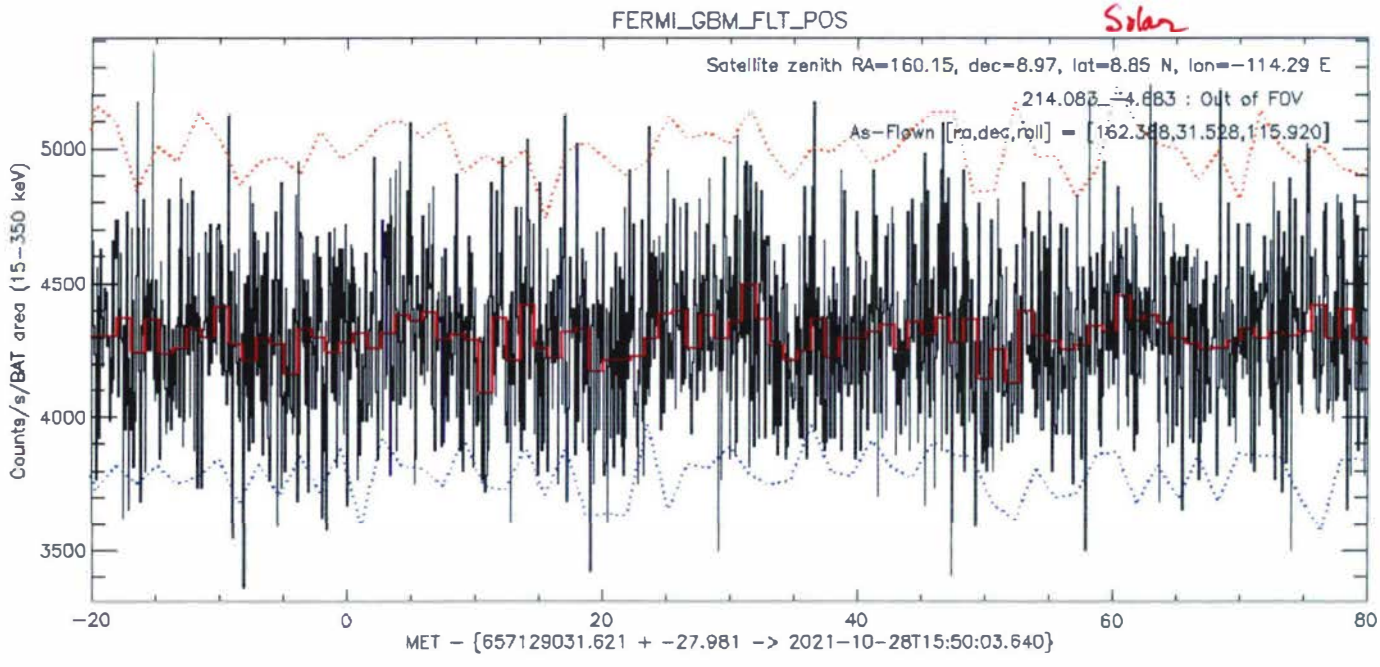
Subject: BAT lightcurve for trigger at 211028_1550
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/28/2021, 12:48 PM
To: gbm-burst-advocate@lists.nasa.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov, vestrand@lanl.gov, aaron.tohu@gmail.com, mkippen@lanl.gov, dmopalmer@gmail.com, ipn@ssl.berkeley.edu

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 657129031.621 -s 214.083_-4.683
Swift Zenith(RA,dec):          160.15, 8.97
Swift Location(lon,lat,alt):  -114.29 E, 8.85 N, 554 km
Time(MET + UTCF -> UT):    657129031.621 + -27.981 -> 2021-10-28T15:50:03.640
YYMMDD_SOD:                    211028_57003.640       DOY=301
Obs Sequence Number:           01081113005
Obs Target Name:               GRB 211025A
Obs Date and Times:            2021-10-28   15:35:34 - 16:01:29
Obs Pointing(ra,dec,roll):     162.388, 31.528, 115.92
214.083_-4.683_imageloc (boresight_dist, angle): (61, -89)
214.083_-4.683_exposure (cm^2 cos adjusted): 0
214.083_-4.683_altitude: 58 (up)
```

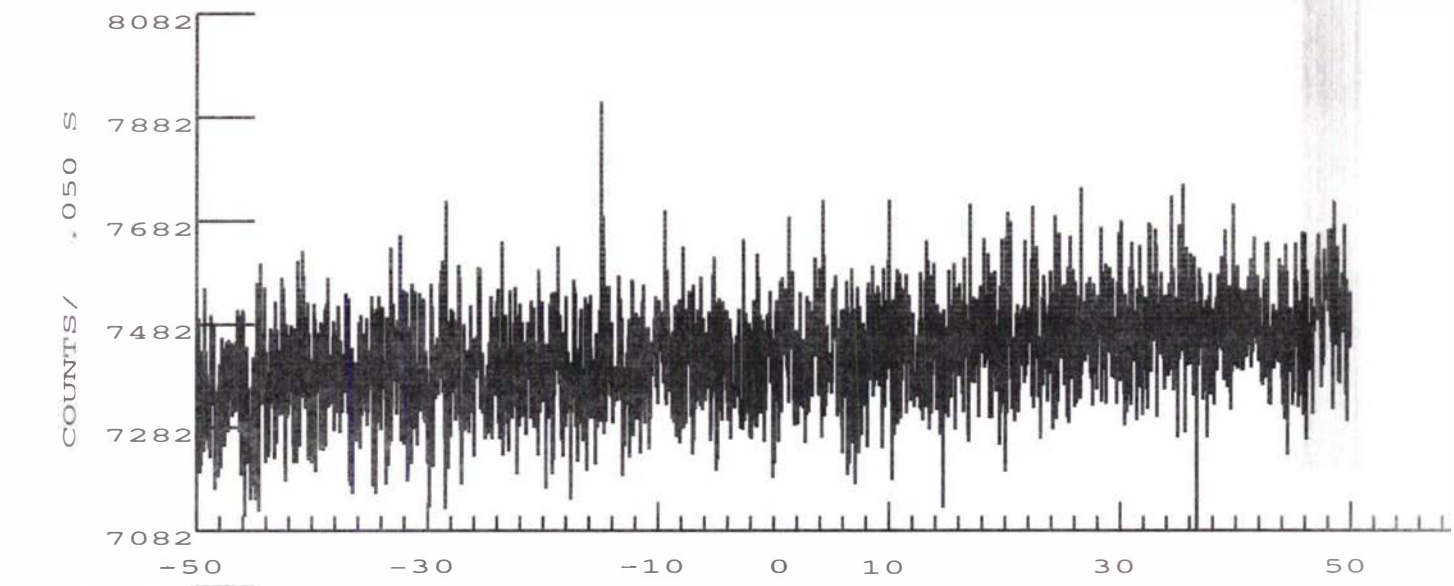
--
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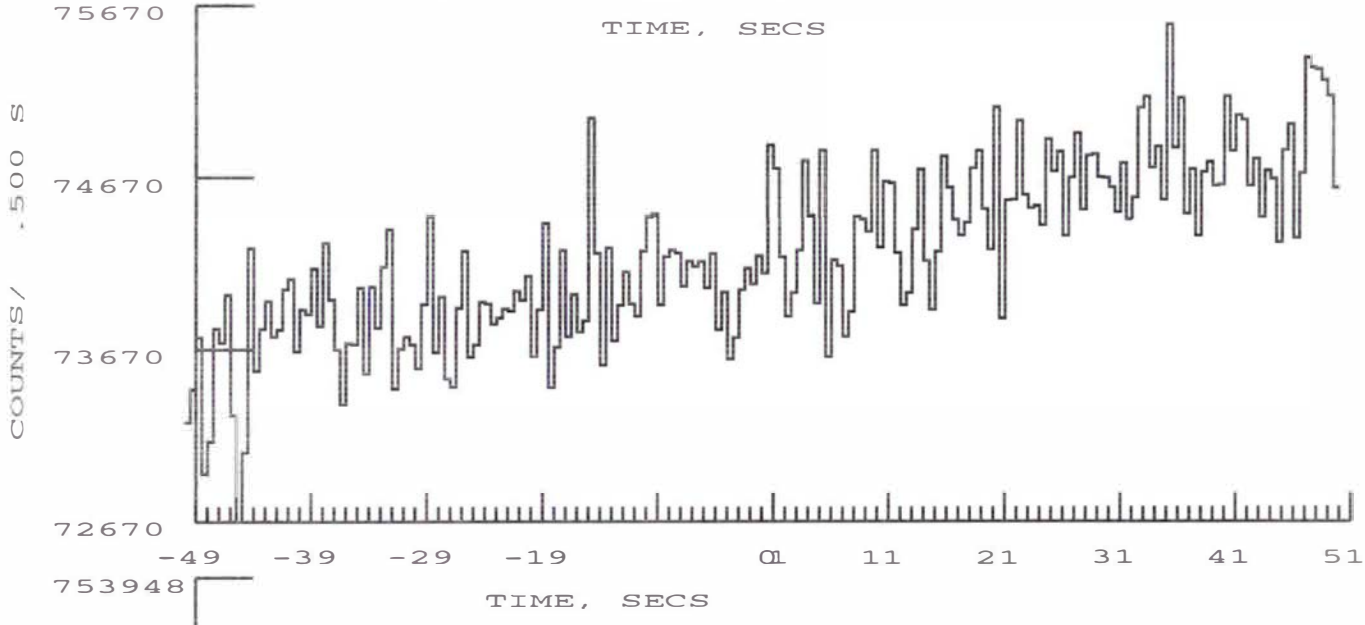
/tmp/swift/211028_1550.png

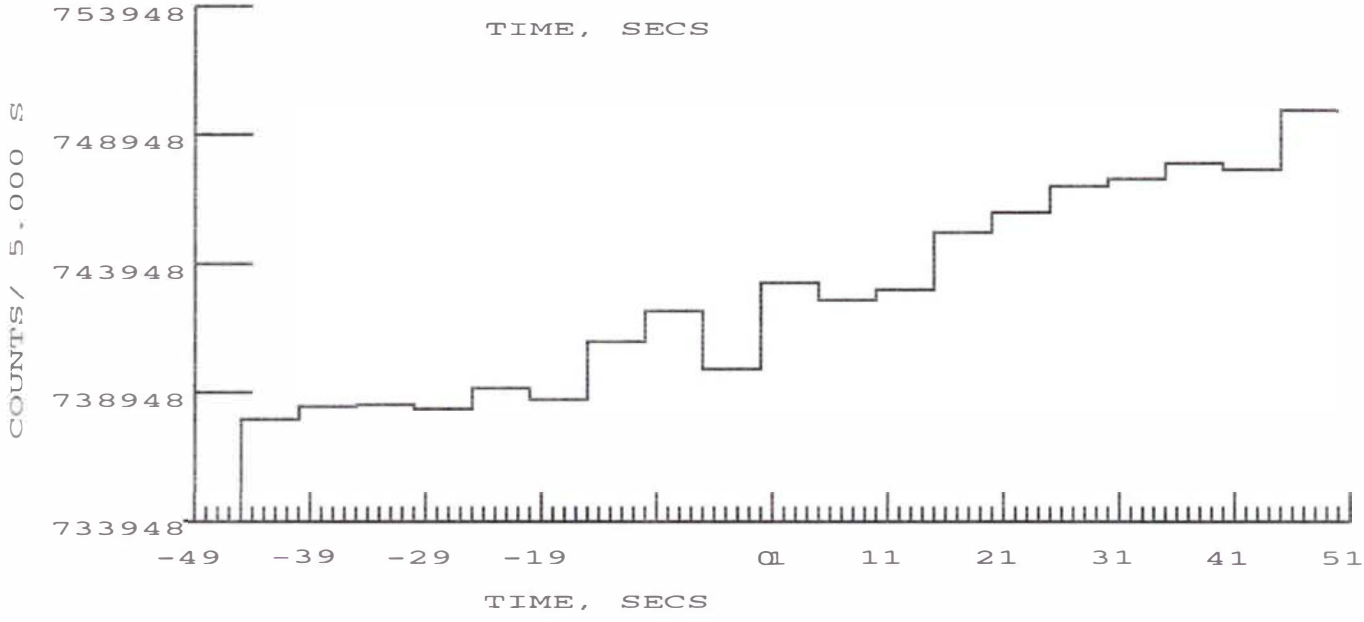


Attachments:

/tmp/swift/211028_1550.png	18.5 KB
/tmp/swift/211028_1550_bat64ms_ipn	87.1 KB


8082
7882
7682
7482
7282
7082
COUNTS/ .050 S
-50
-30
-10
0
10
30
50
TIME, SECS


75670
74670
73670
72670
COUNTS/ .500 S
-49
-39
-29
-19
01
11
21
31
41
51
TIME, SECS


753948
748948
743948
738948
733948
COUNTS/ 5.000 S
-49
-39
-29
-19
01
11
21
31
41
51
TIME, SECS

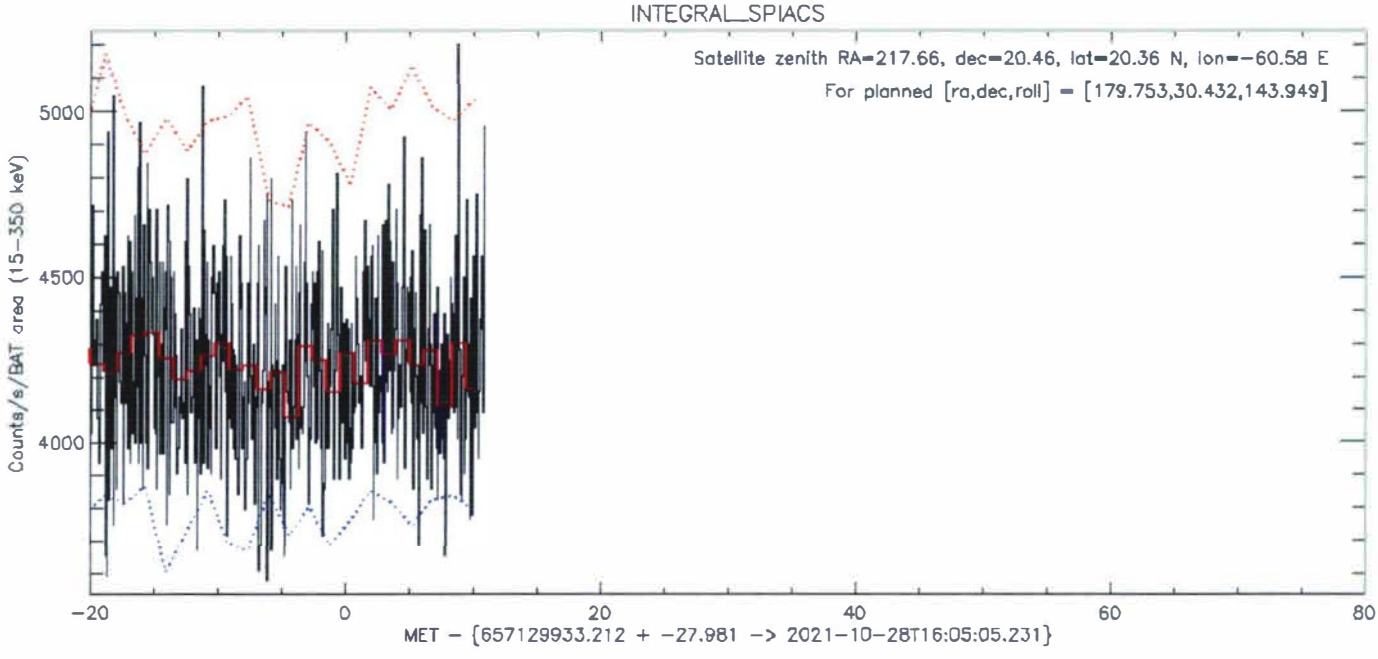
Subject: BAT lightcurve for trigger at 211028_1605
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/28/2021, 12:48 PM
To: aaron.tohu@gmail.com, palmer+automatic_lightcurve@lanl.gov, mkippen@lanl.gov, gbm-burst-advocate@lists.nasa.gov, bat_team@bigbang.gsfc.nasa.gov, vestrand@lanl.gov, ipn@ssl.berkeley.edu, dmopalmer@gmail.com

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```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 657129933.212
Swift Zenith(RA,dec):          217.66, 20.46
Swift Location(lon,lat,alt):  -60.58 E, 20.36 N, 555 km
Time(MET + UTCF -> UT):   657129933.212 + -27.981 -> 2021-10-28T16:05:05.231
YYMMDD_SOD:                    211028_57905.231       DOY=301
Obs Sequence Number:           00084385013
Obs Target Name:               NGC4020 (planned)
Obs Date and Times:            2021-10-28   16:01:32 - 16:09:32
Obs Pointing(ra,dec,roll):     179.753, 30.432, 143.95
```

--
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/tmp/swift/211028_1605.png

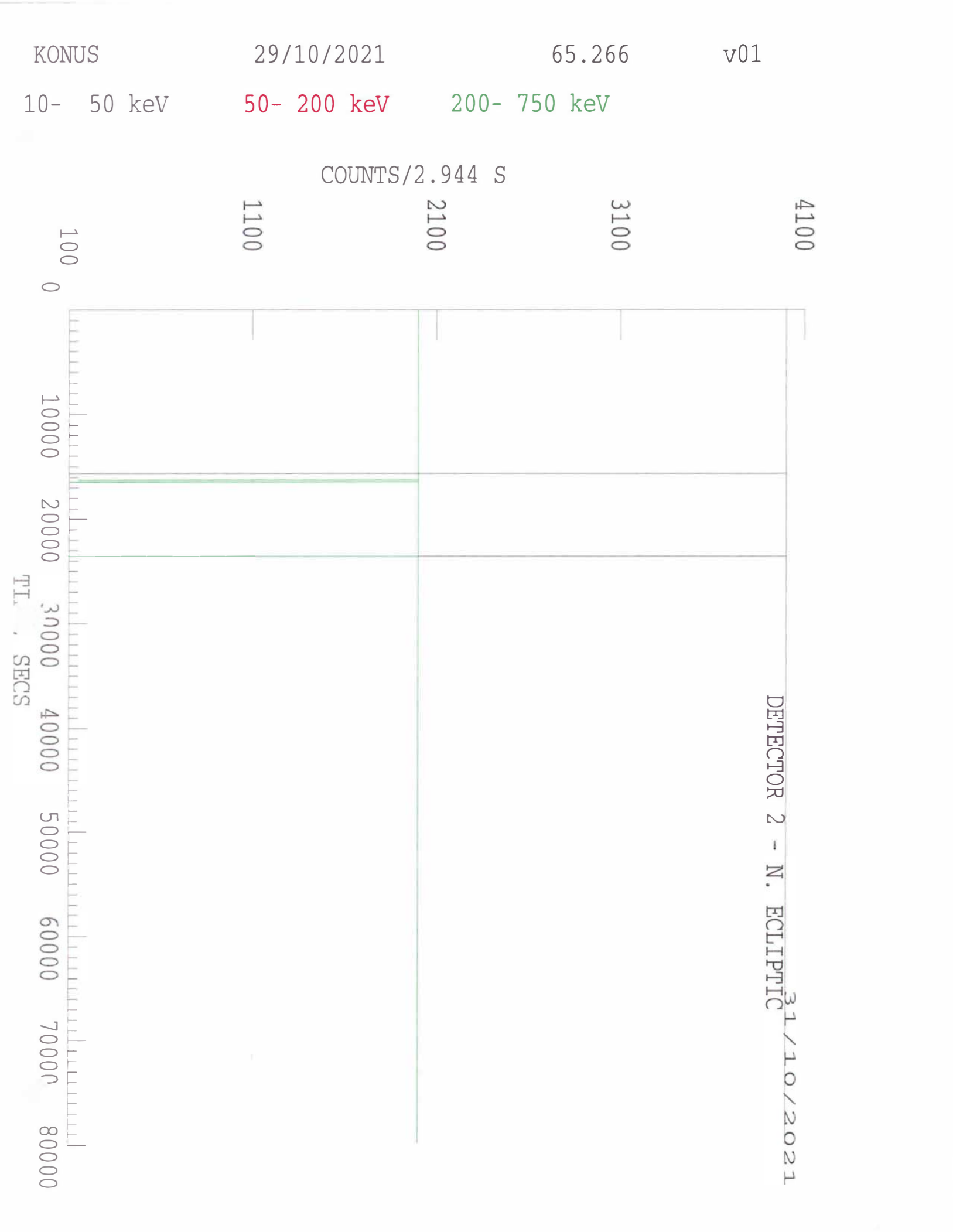


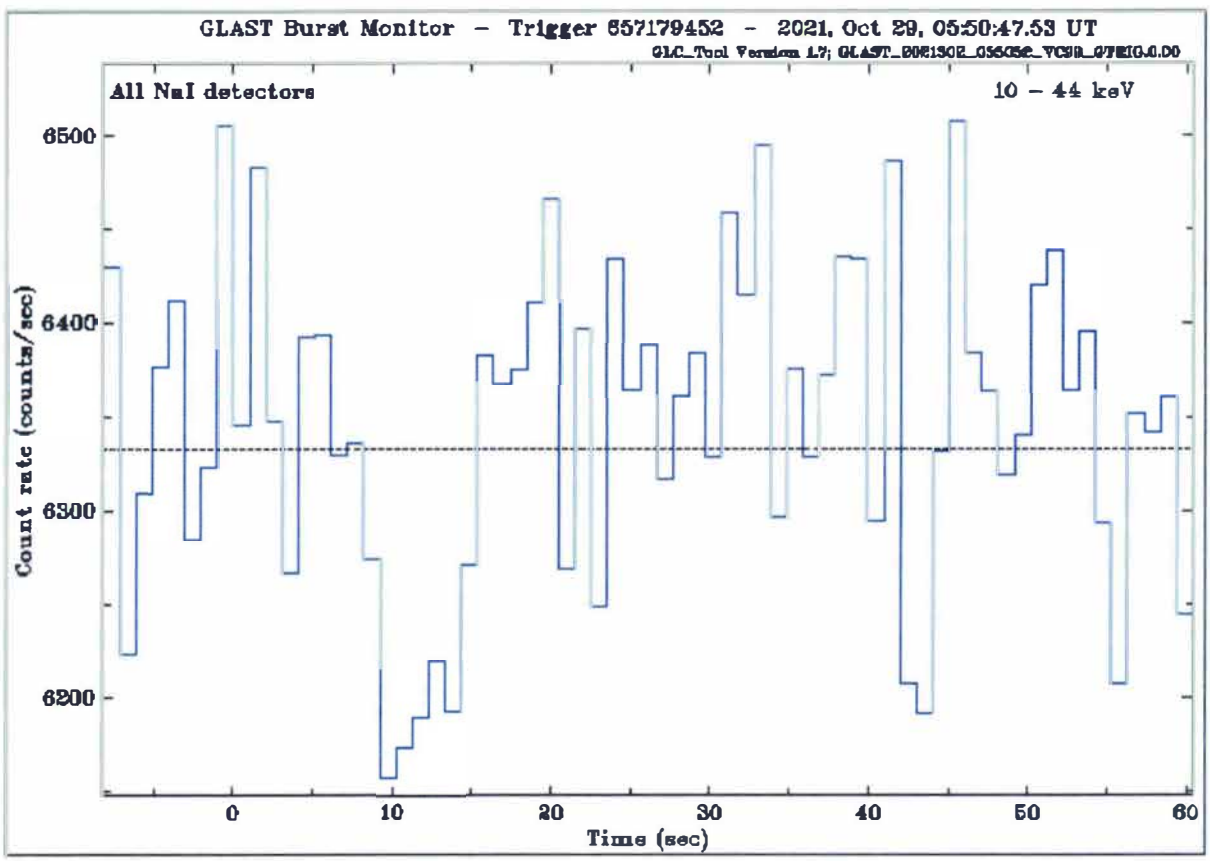
Attachments:

/tmp/swift/211028_1605.png	11.1 KB
/tmp/swift/211028_1605_bat64ms_ipn	20.6 KB

KONUS 29/10/2021 65.266 v01

10- 50 keV 50- 200 keV 200- 750 keV


KONUS 29/10/2021 65.266 v01
10- 50 keV 50- 200 keV 200- 750 keV
COUNTS/2.944 S
100
0
1100
2100
3100
4100
10000
20000
30000
40000
50000
60000
70000
80000
TI , SECS
DETECTOR 2 - N. ECLIPTIC
31/10/2021


GLAST Burst Monitor - Trigger 557179452 - 2021, Oct 29, 05:50:47.53 UT
All NaI detectors
10 - 44 keV
Count rate (counts/sec)
6500
6400
6300
6200
0
10
20
30
40
50
60
Time (sec)

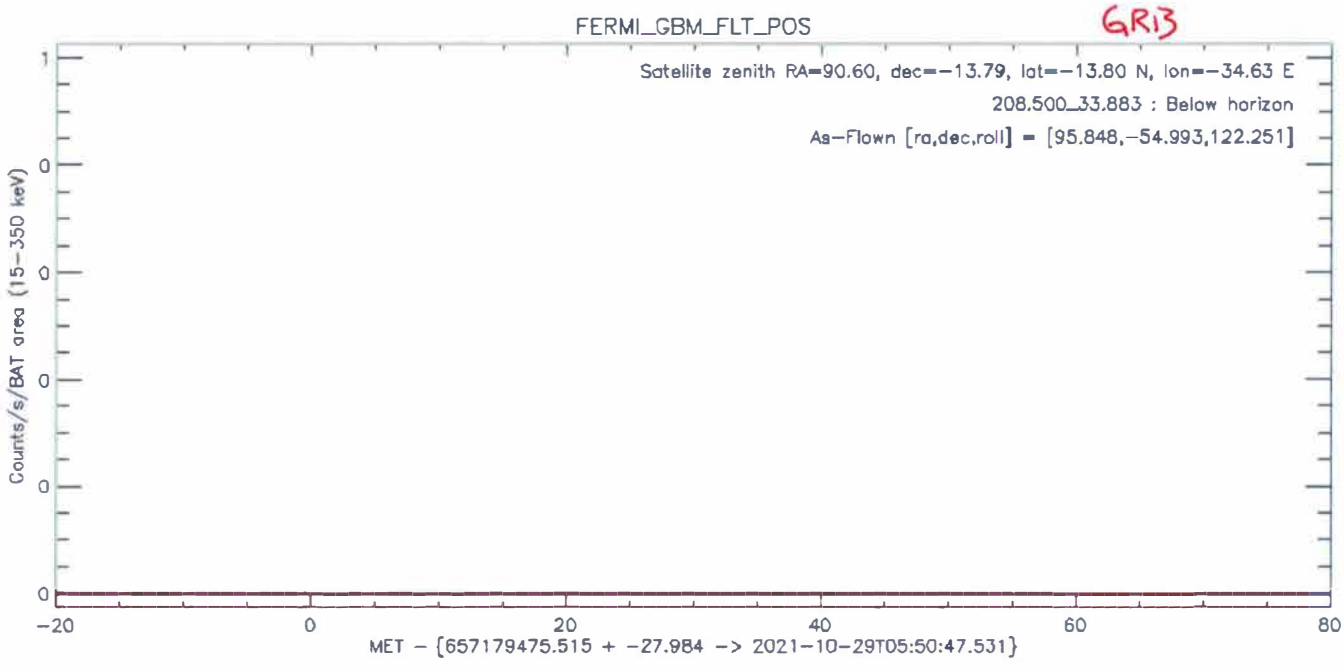
Subject: BAT lightcurve for trigger at 211029_0550
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/29/2021, 5:11 AM
To: palmer+automatic_lightcurve@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, gbm-burst-advocate@lists.nasa.gov, aaron.tohu@gmail.com

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```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 657179475.515 -s 208.500_33.883
Swift Zenith(RA,dec):          90.60, -13.79
Swift Location(lon,lat,alt):  -34.63 E, -13.80 N, 548 km
Time(MET + UTCF -> UT):   657179475.515 + -27.984 -> 2021-10-29T05:50:47.531
YYMMDD_SOD:                    211029_21047.531       DOY=302
Obs Sequence Number:           00075162012
Obs Target Name:               saa-cold-98-07
Obs Date and Times:            2021-10-29   05:40:33 - 05:58:31
Obs Pointing(ra,dec,roll):     95.848, -54.993, 122.25
208.500_33.883_imageloc (boresight_dist, angle): (130, -127)
208.500_33.883_exposure (cm² cos adjusted): 0
208.500_33.883_altitude: -8 (down)
```

--
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/tmp/swift/211029_0550.png



Attachments:

/tmp/swift/211029_0550_bat64ms_ipn	87.0 KB
/tmp/swift/211029_0550.png	7.9 KB

KONUS 30/10/2021 53.993 v01

10- 50 keV 50- 200 keV 200- 750 keV

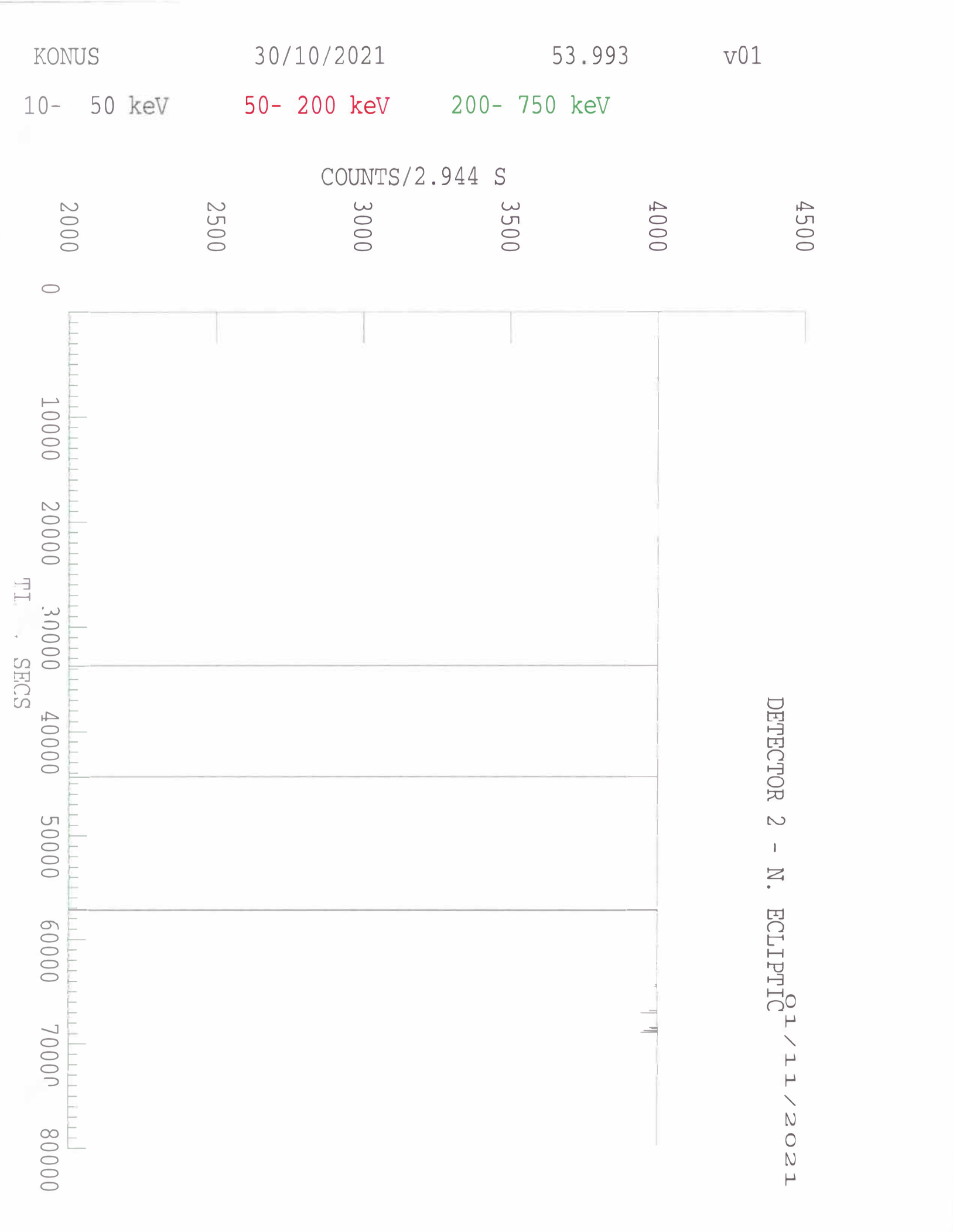
COUNTS/2.944 S

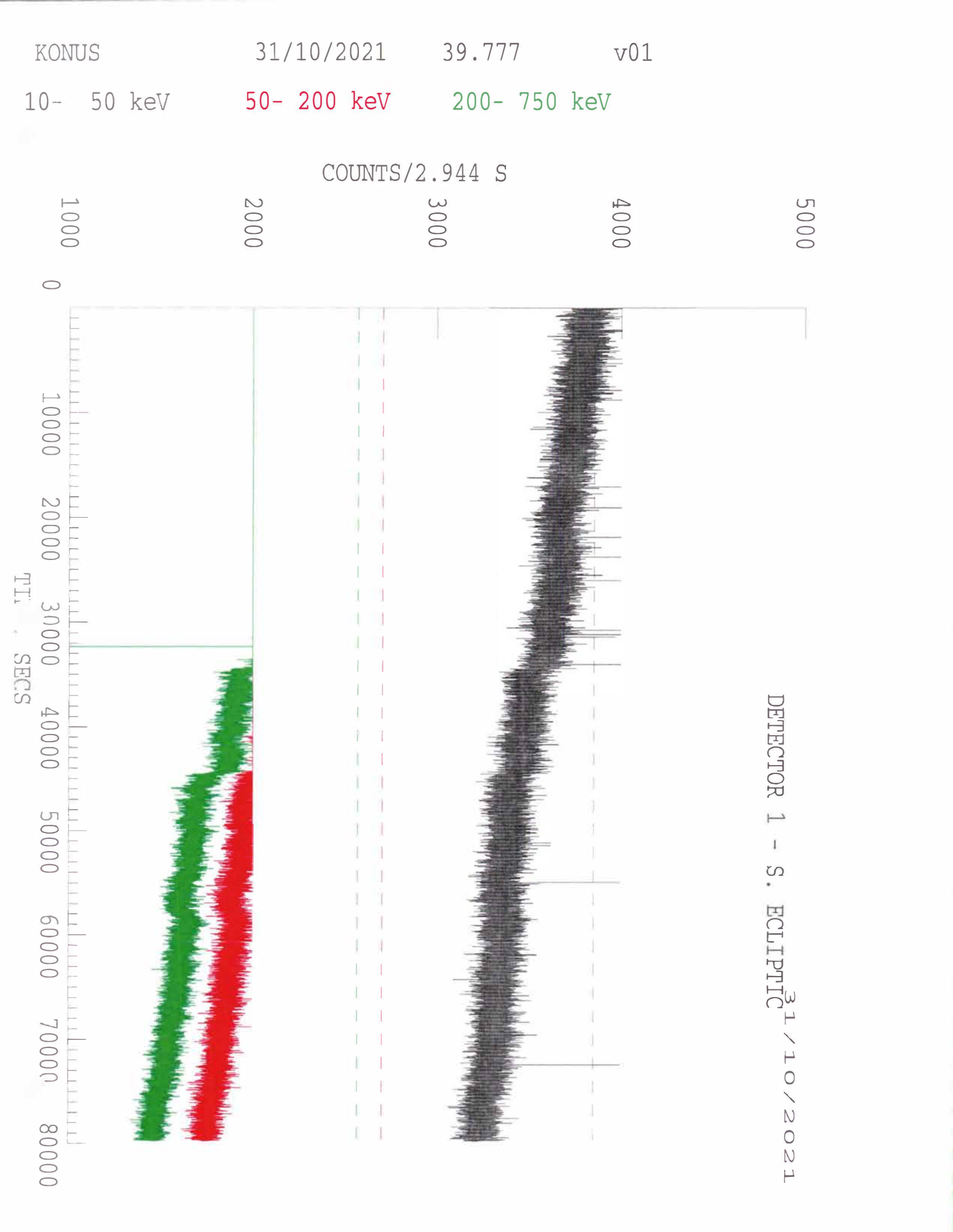
2000 2500 3000 3500 4000 4500

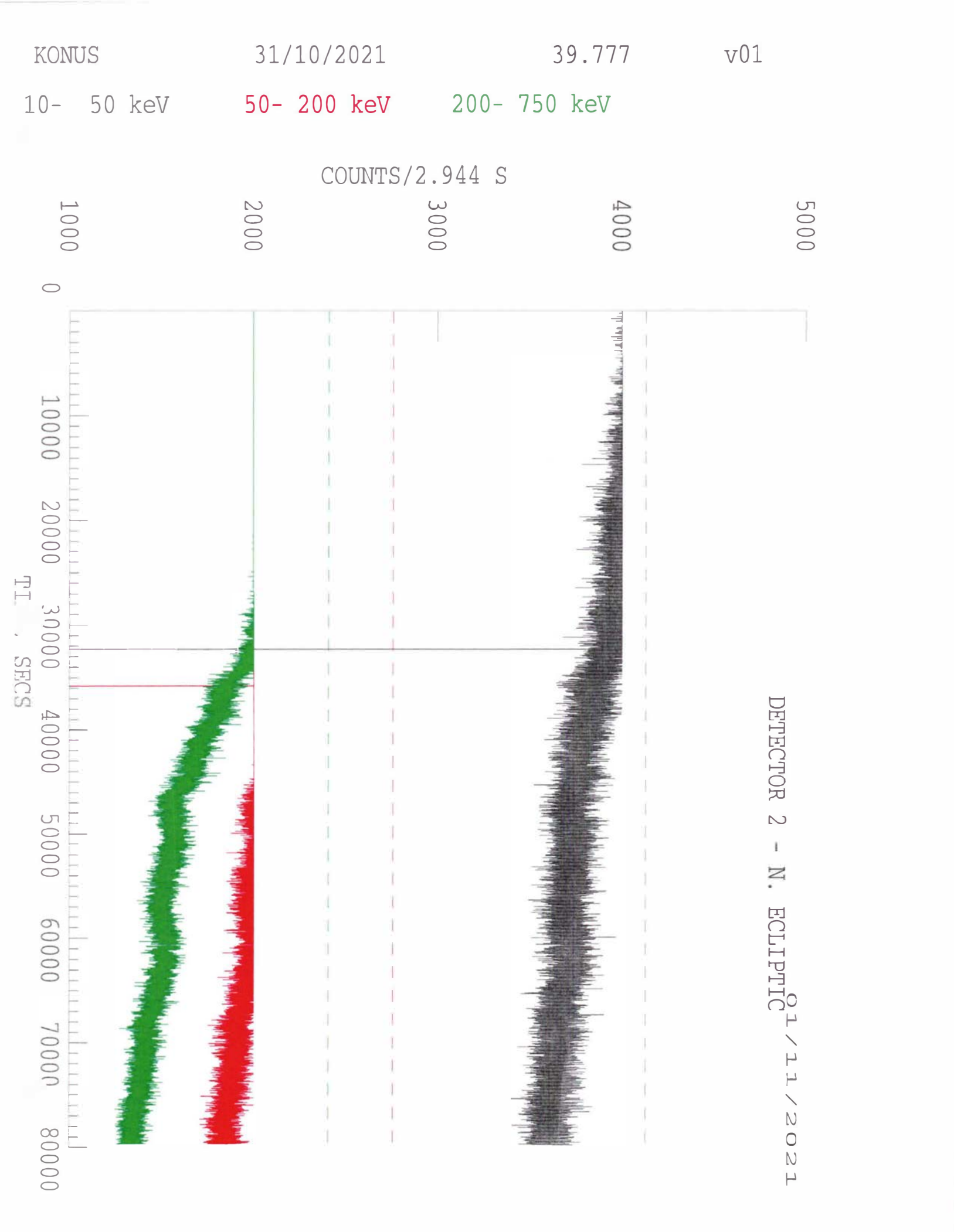
0 10000 20000 30000 40000 50000 60000 70000 80000

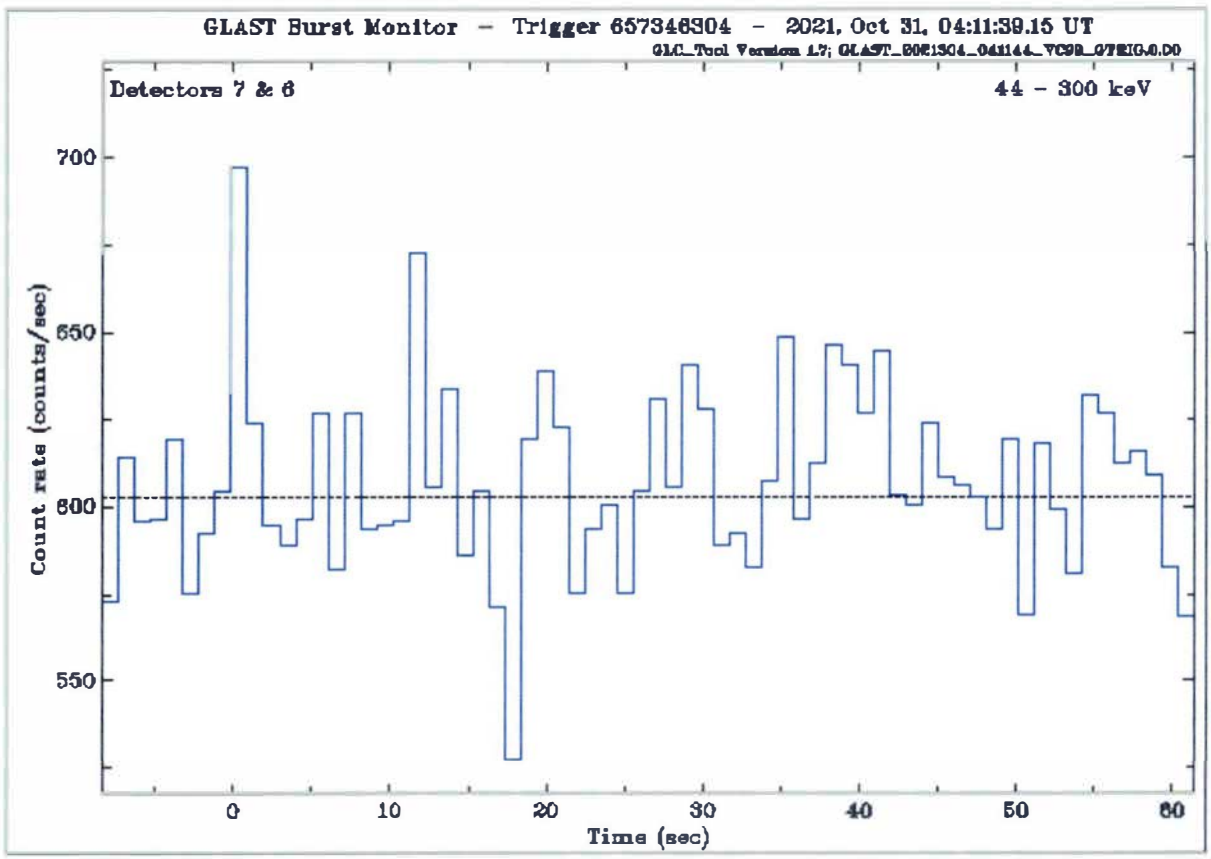
T1 , SECS

DETECTOR 1 - S. ECLIPTIC 30/10/2021


KONUS
30/10/2021
53.993
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
2000
2500
3000
3500
4000
4500
0
10000
20000
30000
40000
50000
60000
70000
80000
TI , SECS
DETECTOR 2 - N. ECLIPTIC
01/11/2021


KONUS 31/10/2021 39.777 v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
1000
2000
3000
4000
5000
0
10000
20000
30000
40000
50000
60000
70000
80000
SECS
DETECTOR 1 - S. ECLIPTIC 31/10/2021


KONUS
31/10/2021
39.777
v01
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.944 S
1000
2000
3000
4000
5000
0
10000
20000
30000
40000
50000
60000
70000
80000
TI , SECS
DETECTOR 2 - N. ECLIPTIC
01/11/2021


GLAST Burst Monitor - Trigger 657346304 - 2021, Oct 31, 04:11:39.15 UT
GLC_Tool Version 1.7; GLAST_200304_041144_V09R_07EIG.0.00
Detectors 7 & 6
44 - 300 keV
Count rate (counts/sec)
700
650
600
550
0
10
20
30
40
50
60
Time (sec)

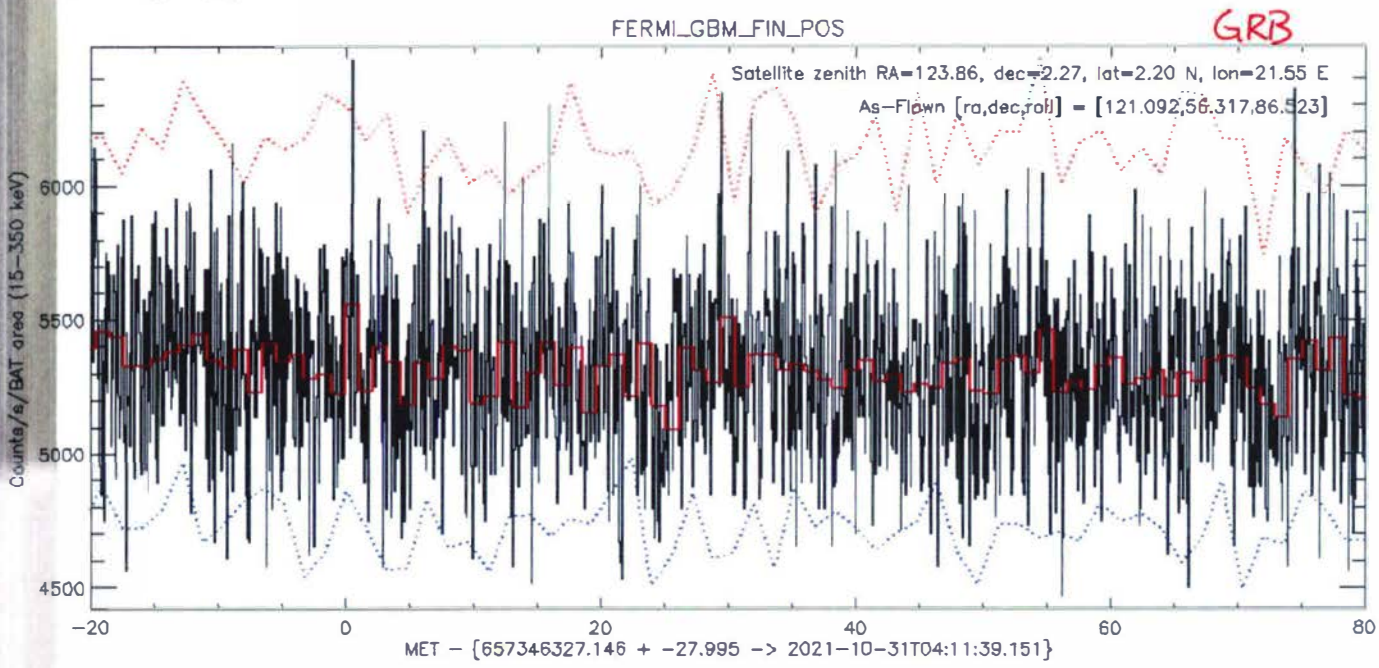
Subject: BAT lightcurve for trigger at 211031_0411
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/31/2021, 12:28 AM
To: bat_team@bigbang.gsfc.nasa.gov, mkippen@lanl.gov, palmer+automatic_lightcurve@lanl.gov, gbm-burst-advocate@lists.nasa.gov, ipn@ssl.berkeley.edu, aaron.tohu@gmail.com, dmopalmer@gmail.com, vestrand@lanl.gov

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 657346327.146
Swift Zenith(RA,dec):          123.86, 2.27
Swift Location(lon,lat,alt):   21.55 E, 2.20 N, 548 km
Time(MET + UTCF -> UT):    657346327.146 + -27.995 -> 2021-10-31T04:11:39.151
YYMMDD_SOD:                    211031_15099.151        DOY=304
Obs Sequence Number:           00013928010
Obs Target Name:               ZTF20acvjlev
Obs Date and Times:            2021-10-31   04:04:34 - 04:14:29
Obs Pointing(ra,dec,roll):     121.092, 56.317, 86.52
```

--
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/tmp/swift/211031_0411.png



Attachments:

/tmp/swift/211031_0411_bat64ms_ipn	87.0 KB
/tmp/swift/211031_0411.png	18.7 KB

Subject: GCN/CALET_GBM_FLT_LIGHTCURVE
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
Date: 10/31/2021, 6:38 AM
To: khurley@ssl.berkeley.edu

```
TITLE:          GCN/CALET NOTICE
NOTICE_DATE:    Sun 31 Oct 21 13:38:56 UT
NOTICE_TYPE:    CALET GBM Flight Lightcurve
POINT_RA:        79.36d {+05h 17m 27s} (J2000),
POINT_DEC:      +44.59d {+44d 35' 34"} (J2000),
TRIGGER_NUM:    1319722651
TRIGGER_DATE:   19518 TJD;   304 DOY;   21/10/31
TRIGGER_TIME:   49068.55 SOD {13:37:48.55} UT
TRIGGER_DET:    0 0 1 (HXM1 HXM2 SGM)
SIGNIFICANCE:   12.59 [sigma]
FOREGND_DUR:    4.00 [sec]
BACKGND_DUR1:   16.00 [sec]
ENERGY_BAND:    40-230 [keV]
SC_LON_LAT:     195.19,44.61 [deg]
LC_URL:         http://cgbm.calet.jp/cgbm_trigger/flight//1319722651/index.html
COMMENTS:       CALET-GBM Flight Lightcurve.
COMMENTS:       The LC_URL file will not be created until ~15 min after the trigger.
```

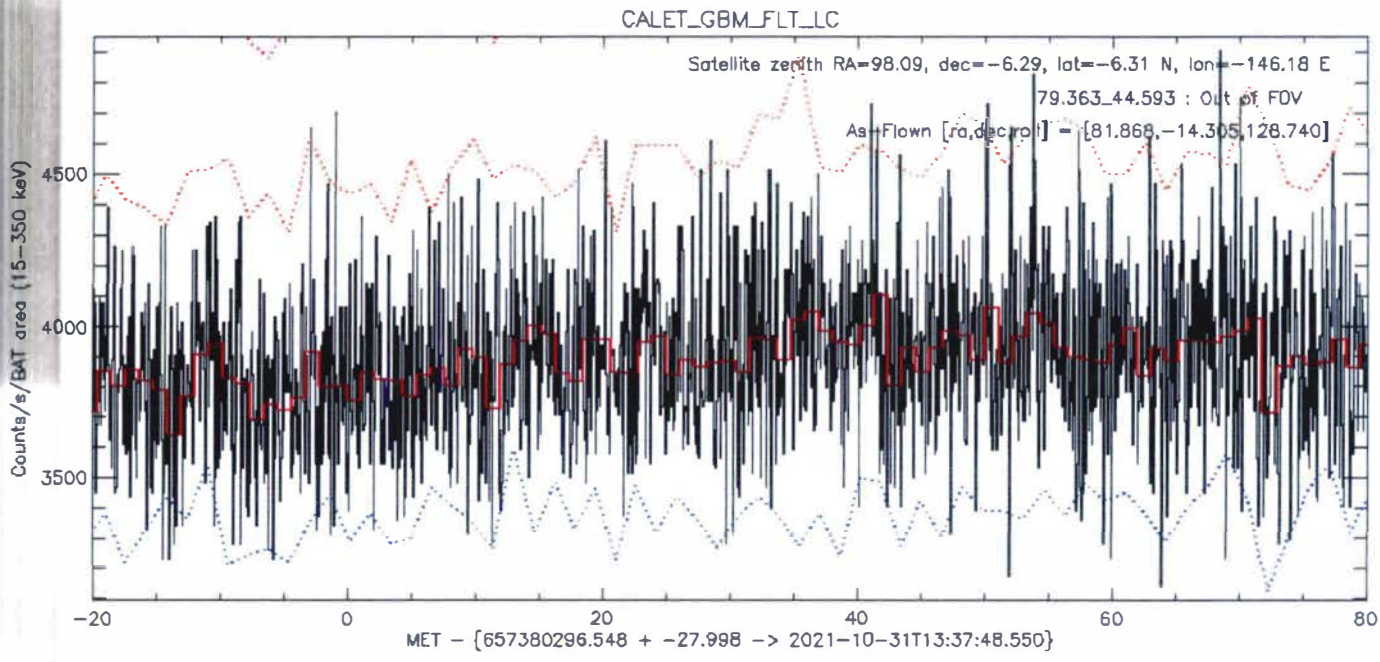
Subject: BAT lightcurve for trigger at 211031_1337
From: "palmer+automatic_lightcurve via ipn" <ipn@ssl.berkeley.edu>
Date: 10/31/2021, 9:23 AM
To: bat_team@bigbang.gsfc.nasa.gov, mkippen@lanl.gov, palmer+automatic_lightcurve@lanl.gov, gbm-burst-advocate@lists.nasa.gov, ipn@ssl.berkeley.edu, vestrand@lanl.gov, dmopalmer@gmail.com, aaron.tohu@gmail.com

******THIS IS AN AUTOMATICALLY GENERATED MESSAGE******

```
% /Users/palmer/anaconda3/envs/stable/bin/swinfo  -o 657380296.548 -s 79.363_44.593
Swift Zenith(RA,dec):          98.09, -6.29
Swift Location(lon,lat,alt):  -146.18 E, -6.31 N, 546 km
Time(MET + UTCF -> UT):   657380296.548 + -27.998 -> 2021-10-31T13:37:48.550
YYMMDD_SOD:                    211031_49068.550       DOY=304
Obs Sequence Number:           03111072049
Obs Target Name:               TOI-421
Obs Date and Times:            2021-10-31   13:36:34 - 13:43:31
Obs Pointing(ra,dec,roll):     81.868, -14.305, 128.74
79.363_44.593_imageloc (boresight_dist, angle): (59, 139)
79.363_44.593_exposure (cm^2 cos adjusted): 0
79.363_44.593_altitude: 59 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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/tmp/swift/211031_1337.png



Attachments:

/tmp/swift/211031_1337.png	19.2 KB
/tmp/swift/211031_1337_bat64ms_ipn	87.0 KB