

Date: Sep 23 2016

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

- ☐ 1 second timing error corrected? (Jan 1 – Apr 24 2009, and July 1 – August 20, 2012 – leap sec.)

2. AGILE Data

- ☐ 1 second timing error corrected?

3. MESSENGER Data

- ☒ Coarse or Precision oscillator (C or P bronte.jhuapl.edu/spice/kernels/sclk/timekeeping/OPS_TIME_ENGR.txt)?
- ☒ Timing checked after ~ 1 week?

4. For Konus events

- ☒ Konus ecliptic latitude used with latest calibration?

5. For Odyssey events

- ☒ Was CHECKMO run to eliminate data gaps?
- ☒ Did the Odyssey ephemeris correspond to the event time? (When there is data in the database, the ephemeris is for the start of record, usually ~1320 s prior to the request time; when there is no data in the database, the ephemeris is for the request time in the e-mail, so the request time in mosearch should be equal to the GRB time. Note that the time in the return e-mail will be ~1320 s prior to the time requested, in the line “no HEND data...”)
- ☐ Was Mars-blocking used?
- ☐ For cruise phase data (April – October 2001), was the updated data used? (Old data has timing errors). For later data, was timing checked after ~1 week?
- ☐ GRS database searched for triggered data? Database data between August 2005 and January 2006 should be re-extracted, due to timing errors. (E-mailed data should be OK).
- ☐ GRS and HEND data cross-correlated to check timing?

6. For 3 or More Spacecraft events

- ☒ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

7. For INTEGRAL events

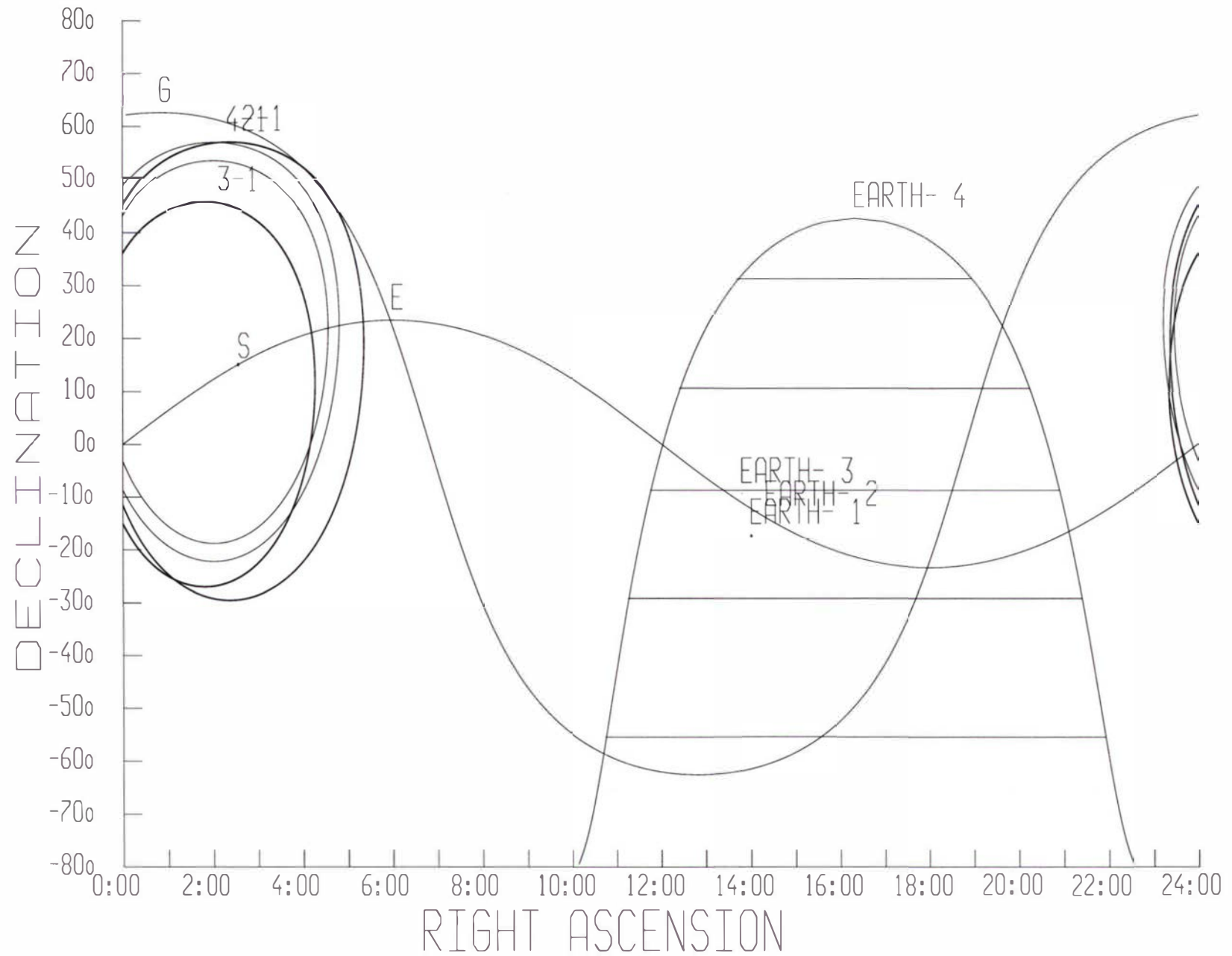
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
- ☐ Volodymyr's website checked ? (<http://isdc.unige.ch/~savchenk/spiacs-online/spiacs-ipnlc.pl>)

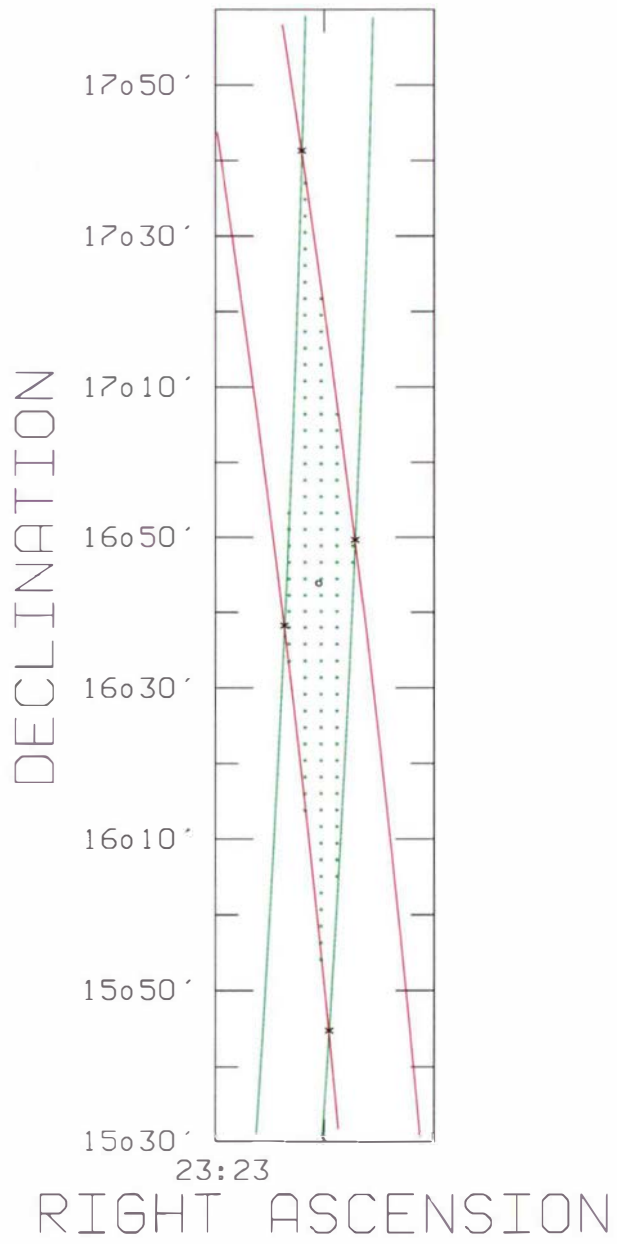
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

EVENT OF MAY 1, 2013 0:13

23/09/2016

N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS2 2 MO 3 MESSENGER 4 SUZAKU





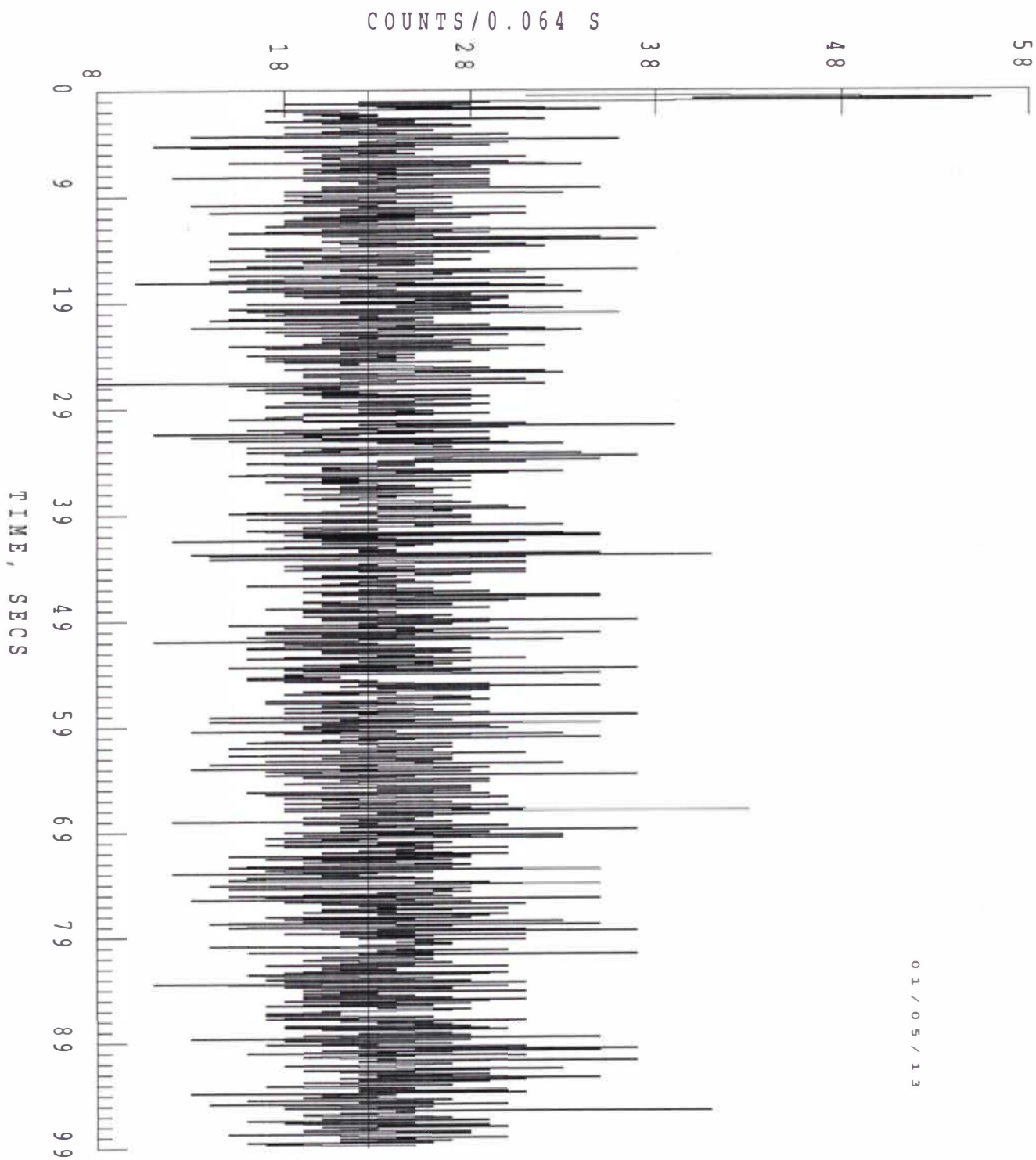
A

KONUS2

01/05/13

827.107

50 - 200 keV



01/05/13

KONUS HRES 20130501 00827

TRIGGER TIME: 01/05/13 DOY 121 Julian 2456414.50957 UT = 00.230 00:13:47 (00827.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

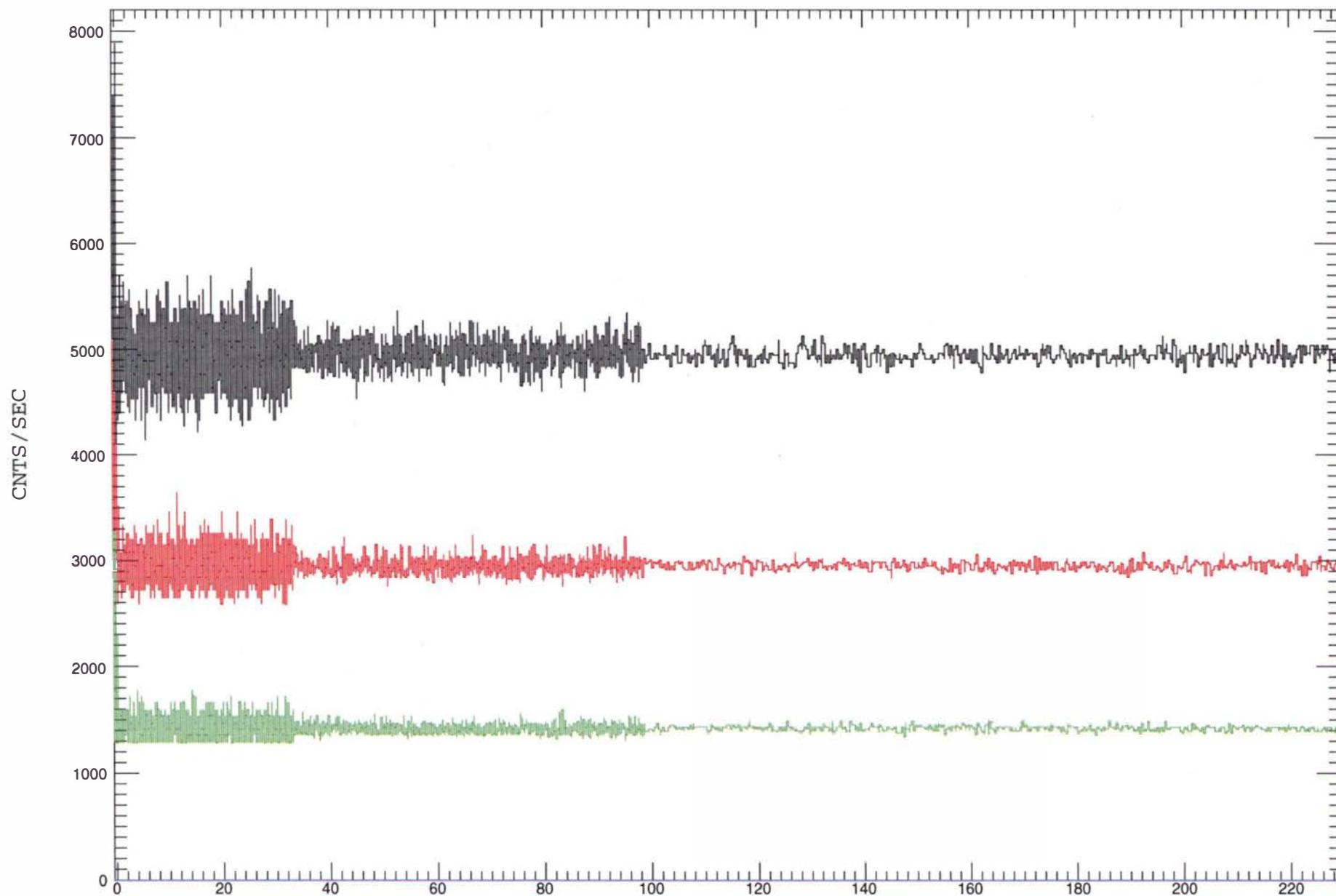
Chan 4 : [> 10 MeV]

Channel 1 + 3900

Channel 2 + 2600

Channel 3 + 1300

Channel 4 + 0



XONDS

A

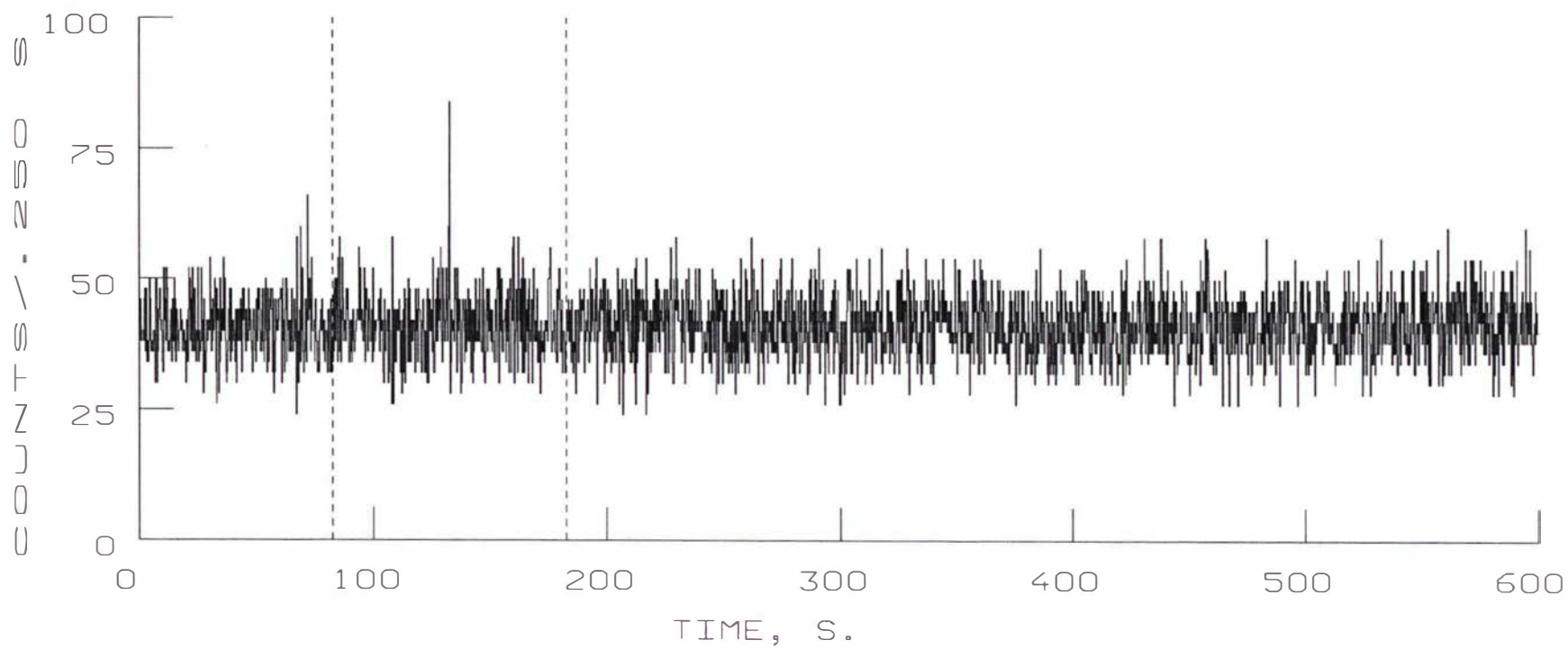
MS01 HEND

27/04/2015

30/04/2013 86209.906 s

50-3000 keV

N= 10 M= 1
>4.0 SIGMA FLUCTUATIONS



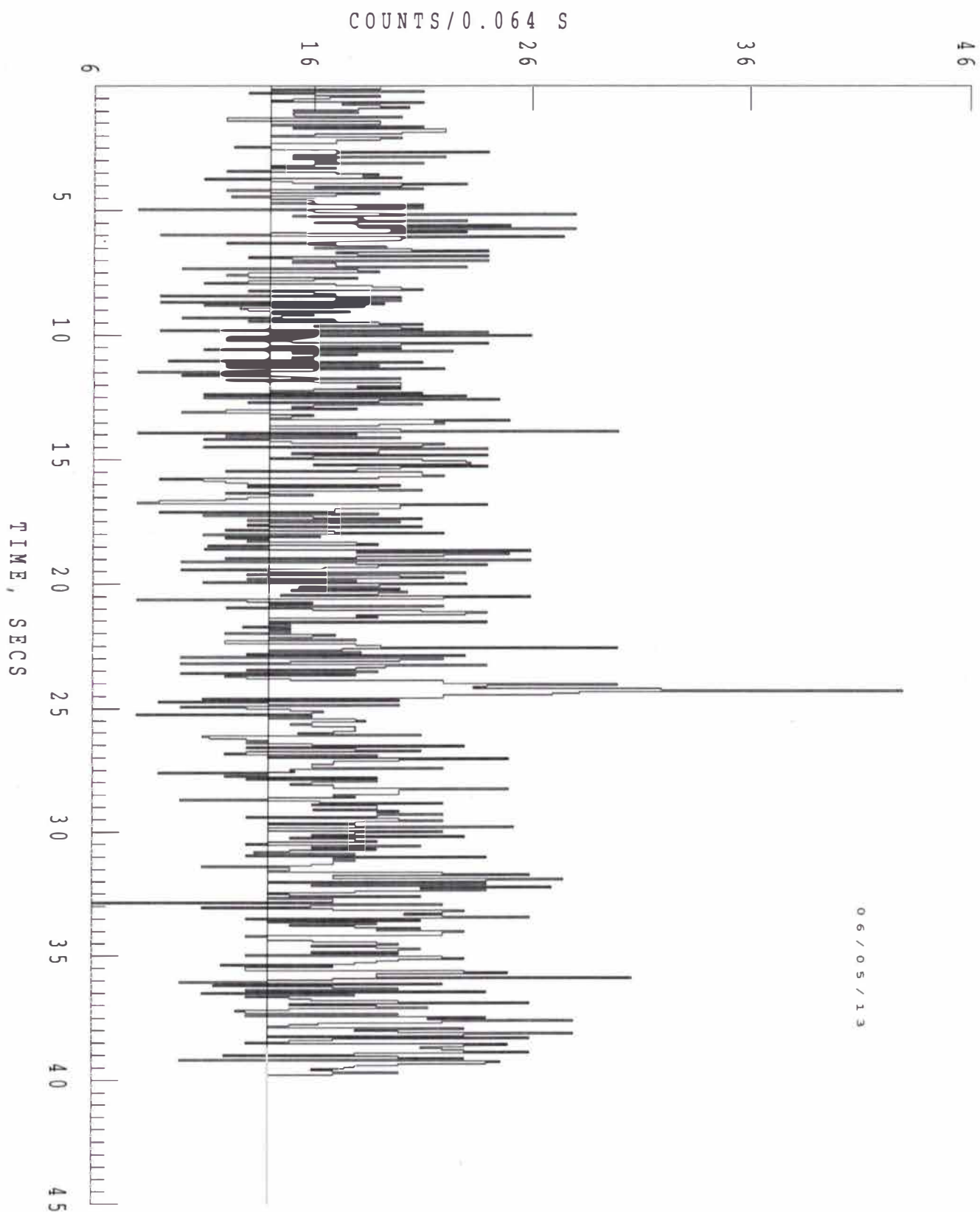
A

HESSI

01/05/13

807.000 (konus_20130501_00827)

25- 150 keV



SUZAKU

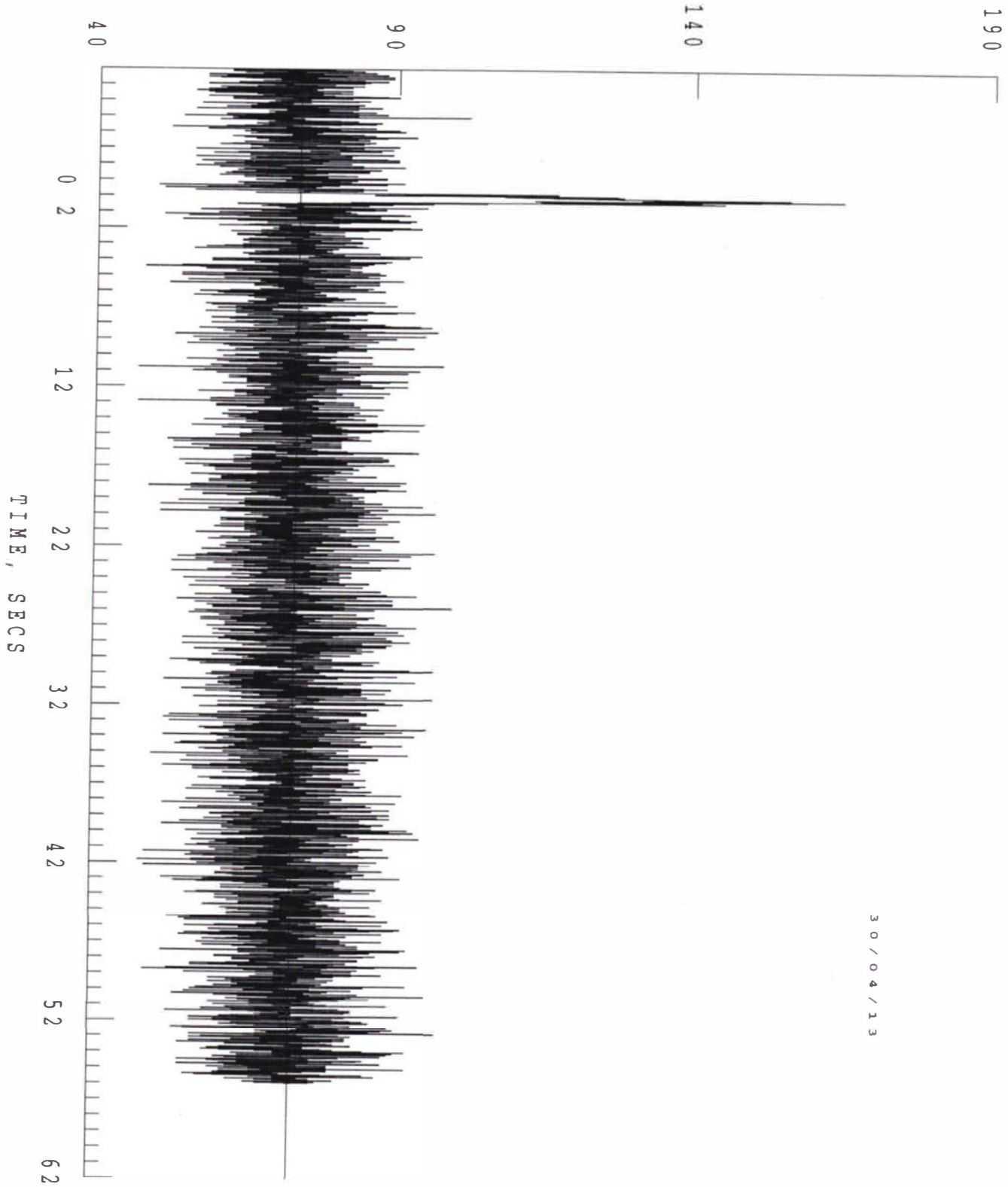
01/05/13

831.148

A

50 - 240 keV

COUNTS/0.016 S



A

22/10/13

MESSENGER

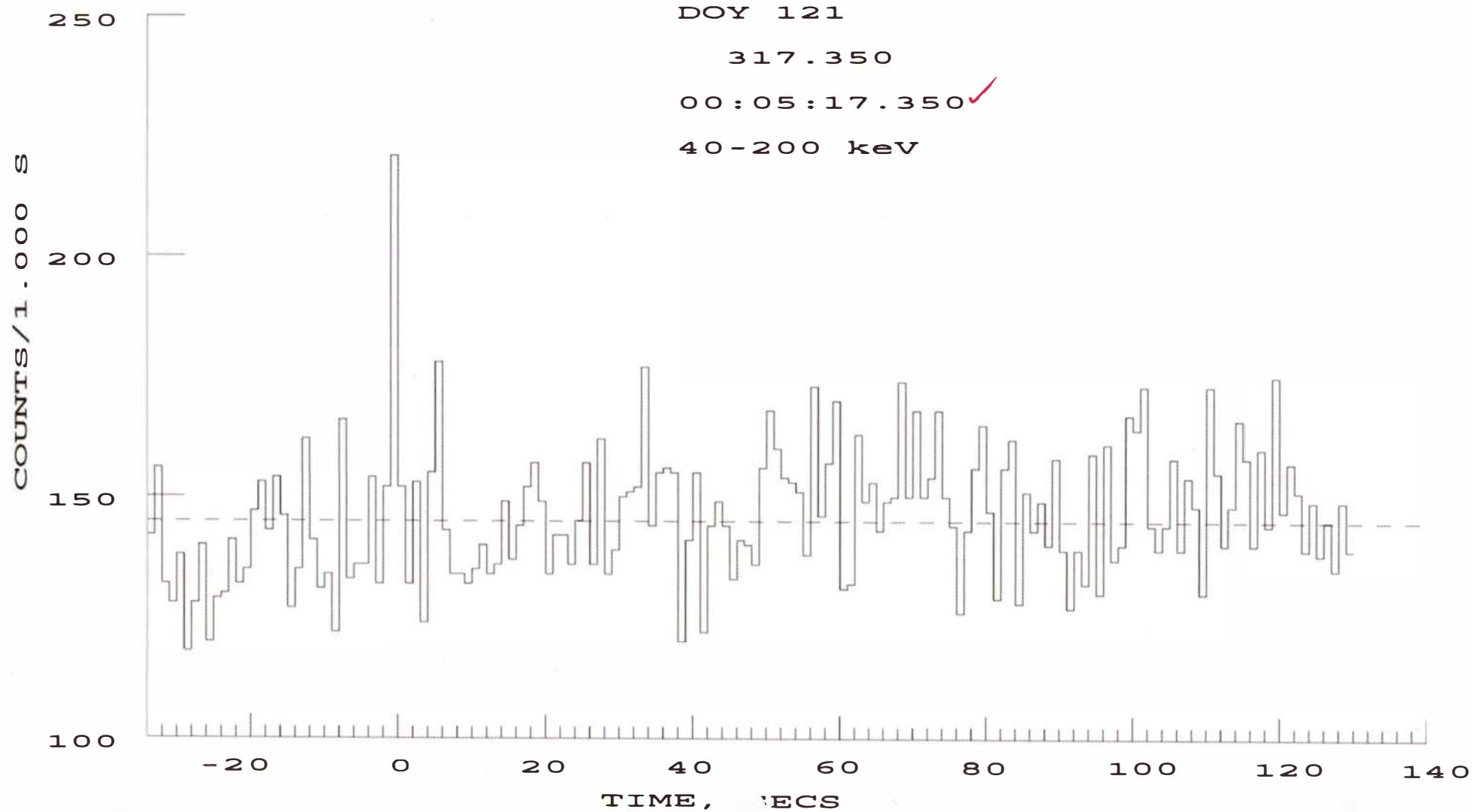
01/05/13

DOY 121

317.350

00:05:17.350 ✓

40-200 keV



SUZAKU

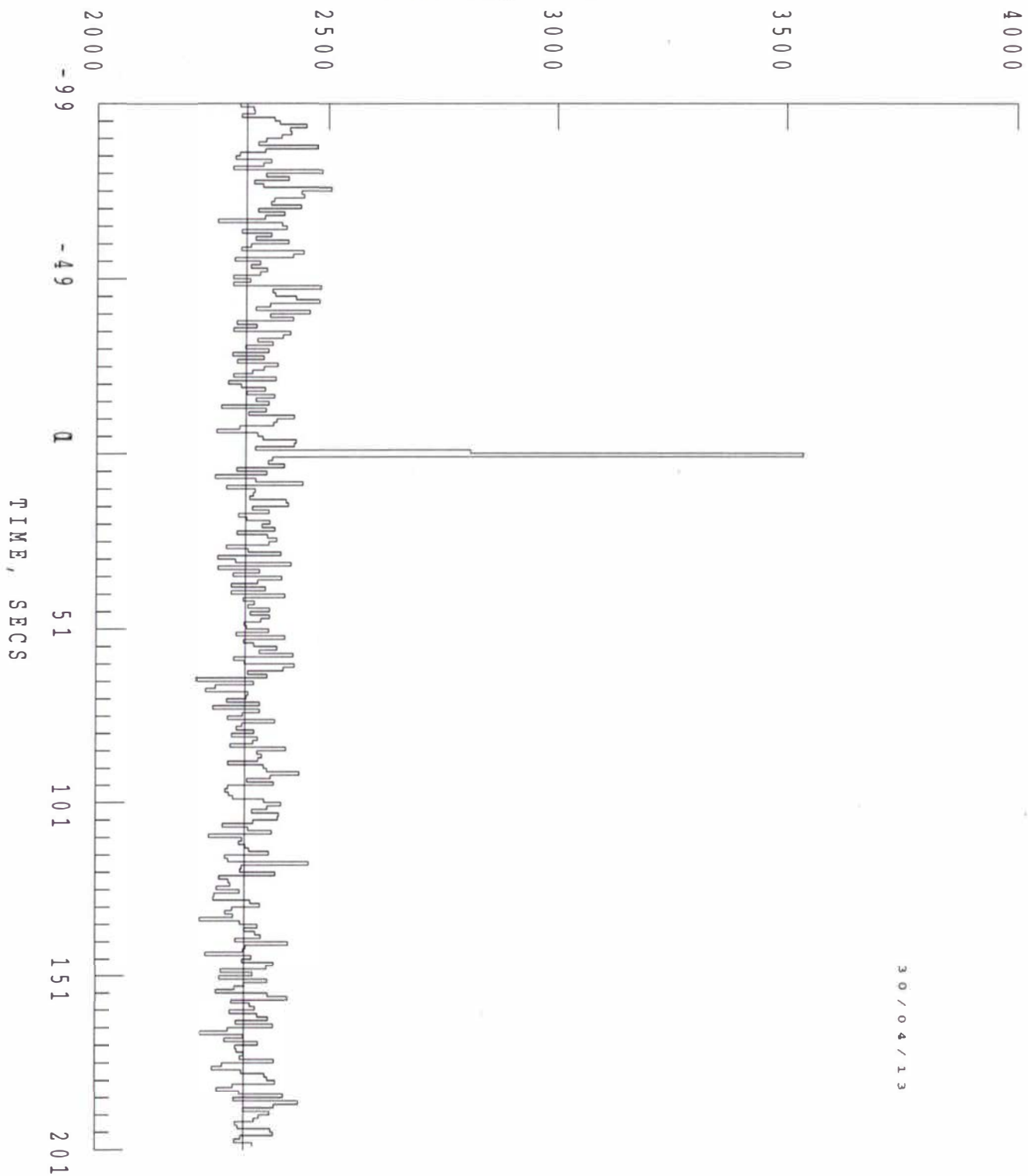
01/05/13

830.149

A

50 - 240 keV

COUNTS/1.000 S



30/04/13

Subject: [Ipn] BAT lightcurve for trigger at 130501_0013

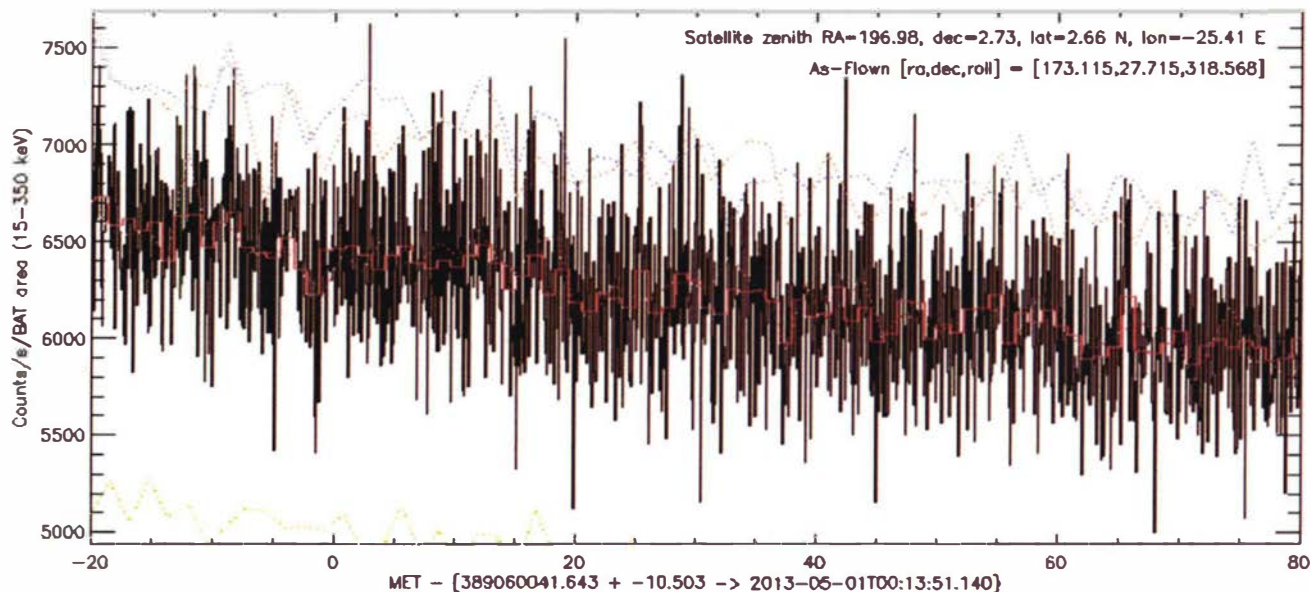
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/1/2013 2:25 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130501_0013.png



```
% /usr/local/bin/swinfo -o 389060041.643
Time(MET + UTCF -> UT): 389060041.643 + -10.503 -> 2013-05-01T00:13:51.140
YYMMDD_SOD: 130501_00831.140 DOY=121
Swift Zenith(RA,dec): 196.98, 2.73
Swift Location(lon,lat,alt): -25.41 E, 2.66 N, 567 km
Obs Sequence Number: 00554620026
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-01 00:12:51 - 00:31:50
Obs Pointing(ra,dec,roll): 173.115, 27.715, 318.57
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130501_0013_bat64ms_ipn	87.0 KB
/tmp/130501_0013.png	19.7 KB

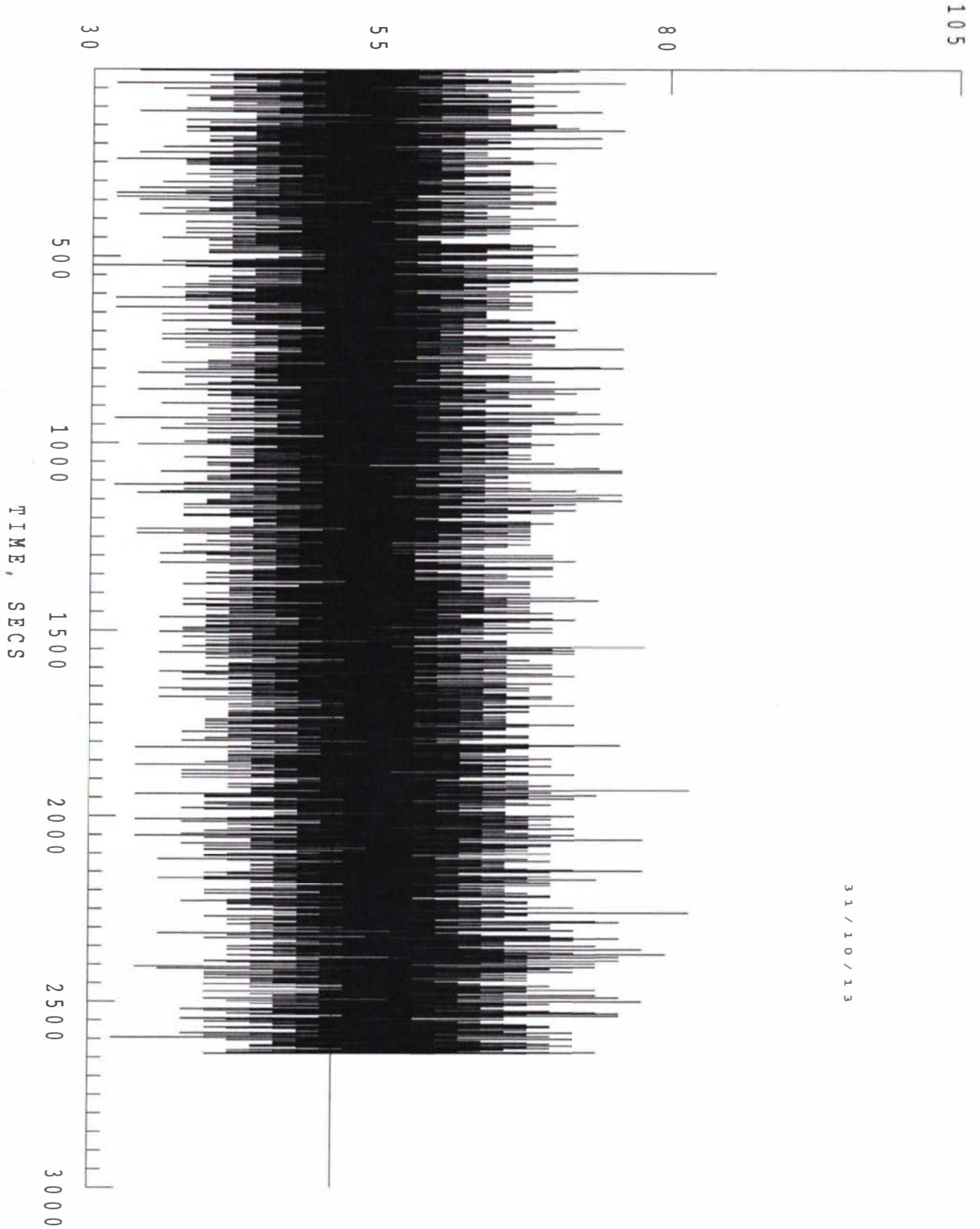
MS01

01/05/13

27409.446

50 - 3000 keV

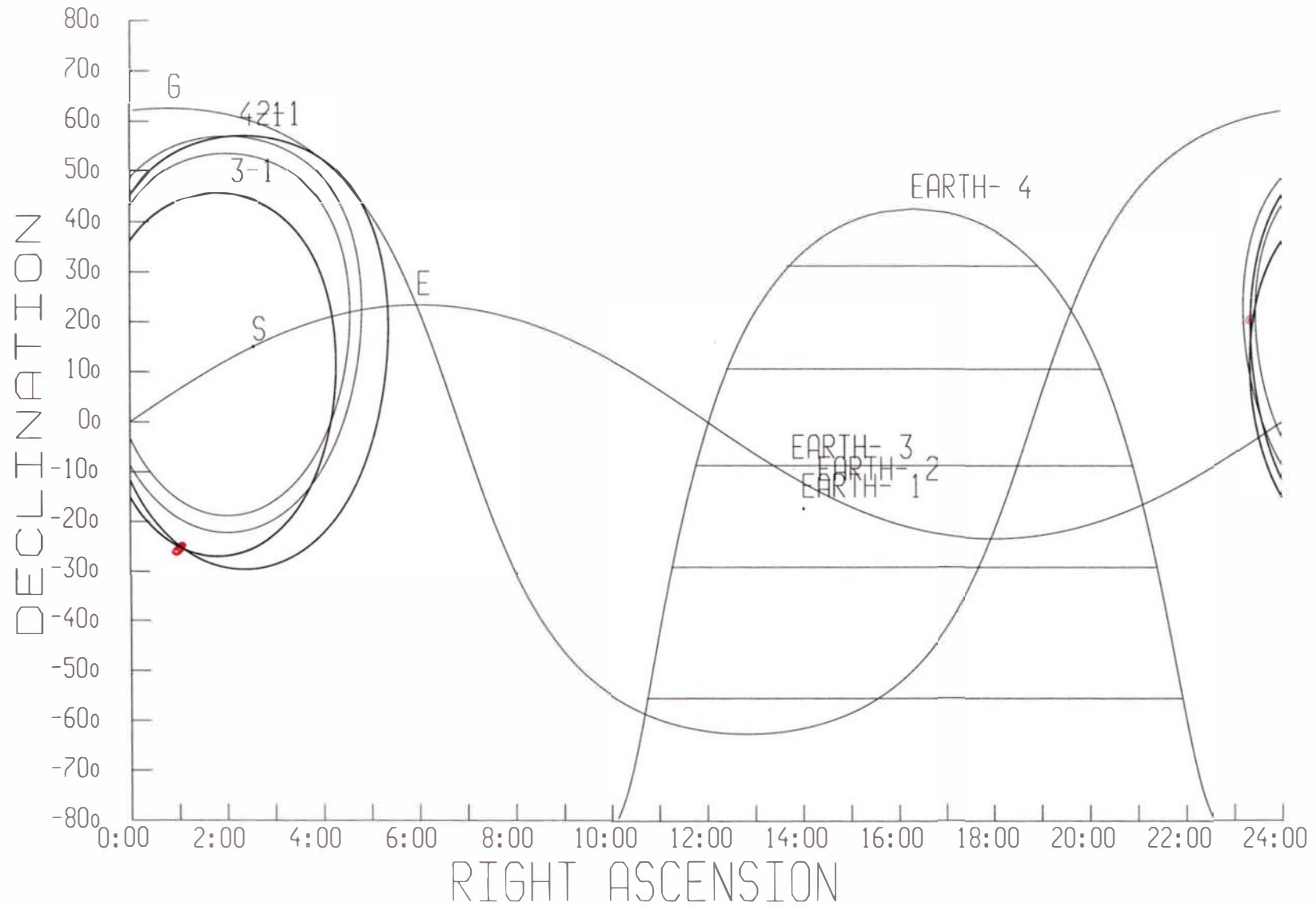
COUNTS/0.250 S

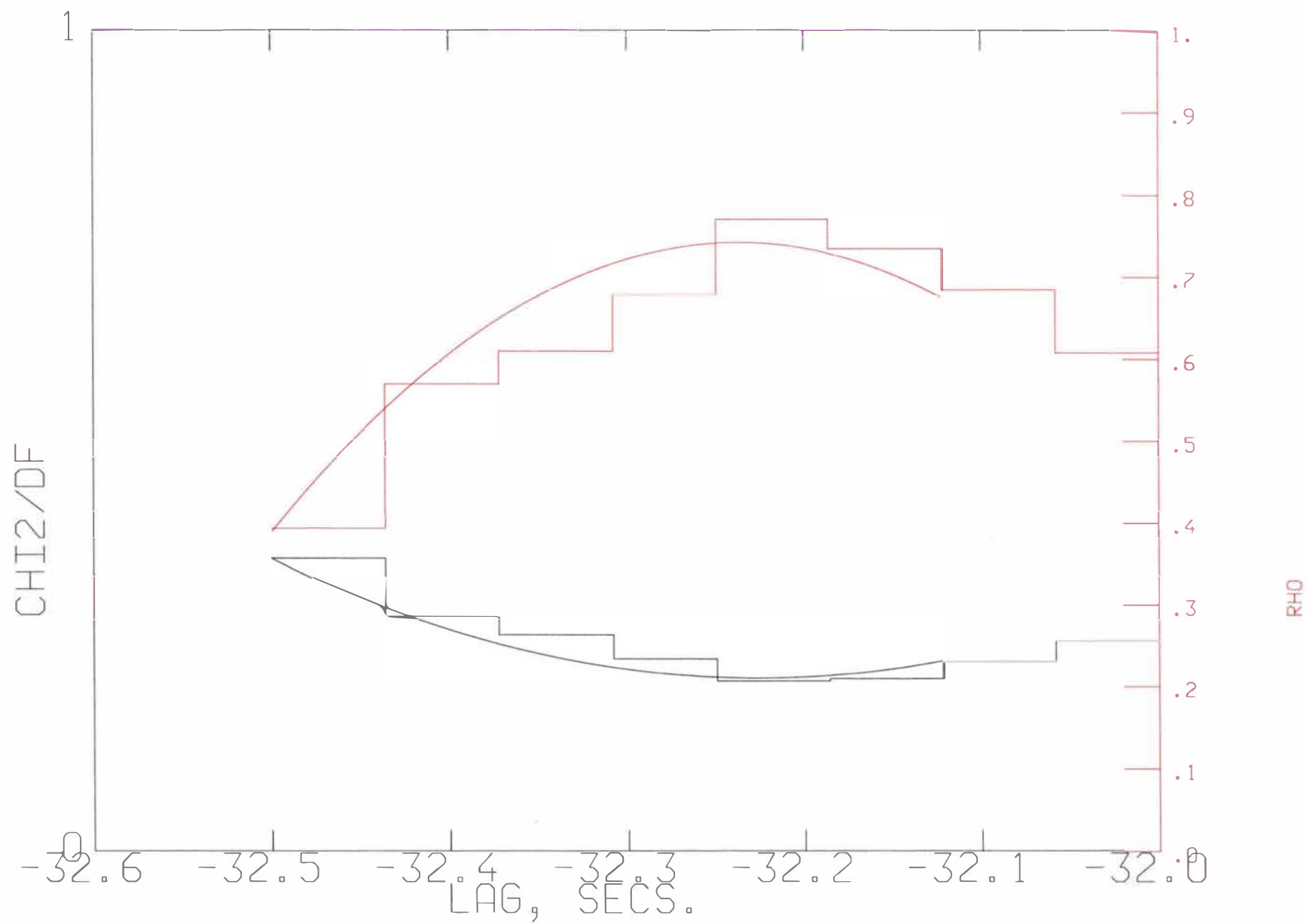


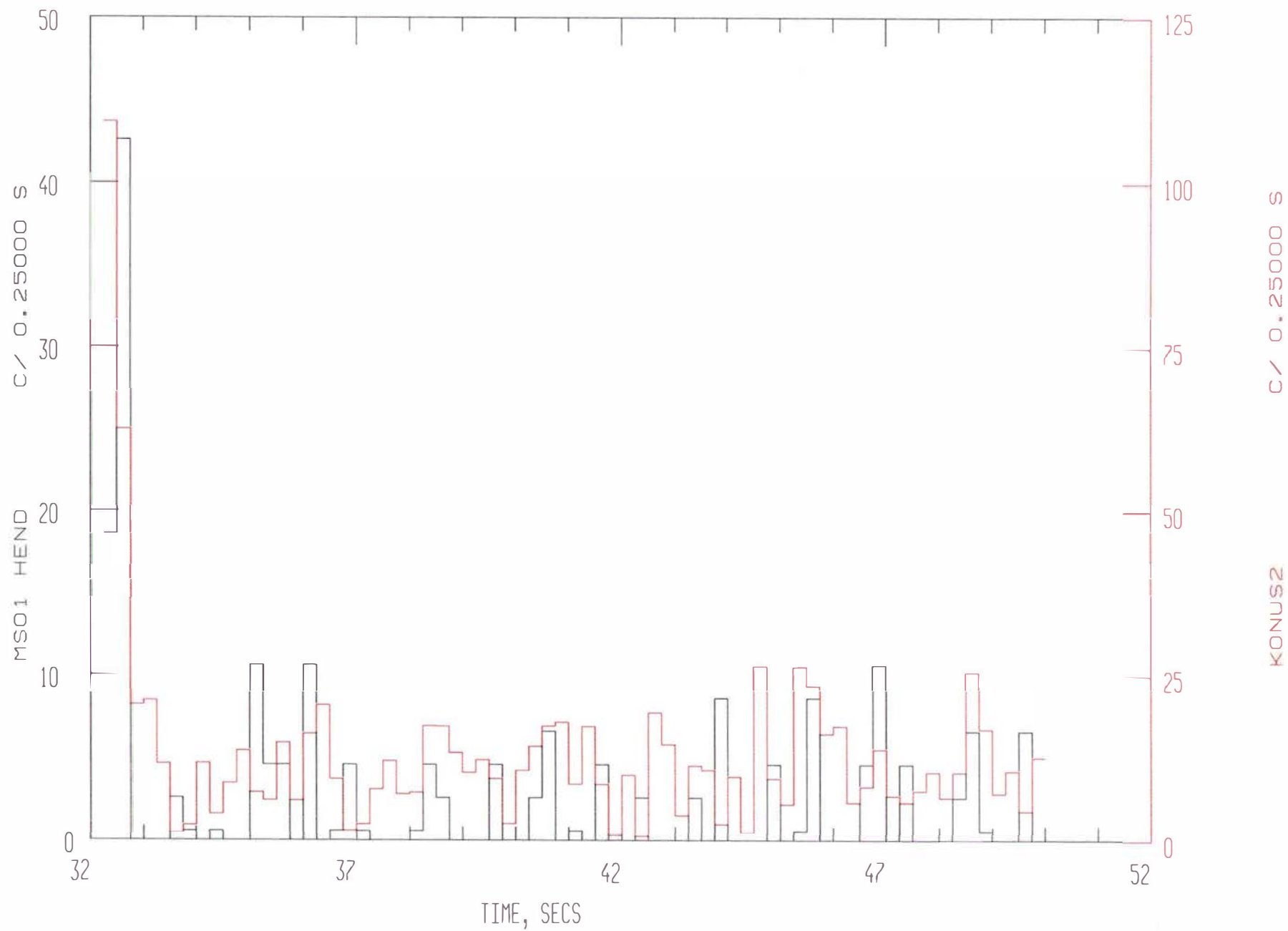
EVENT OF MAY 1, 2013 0:13

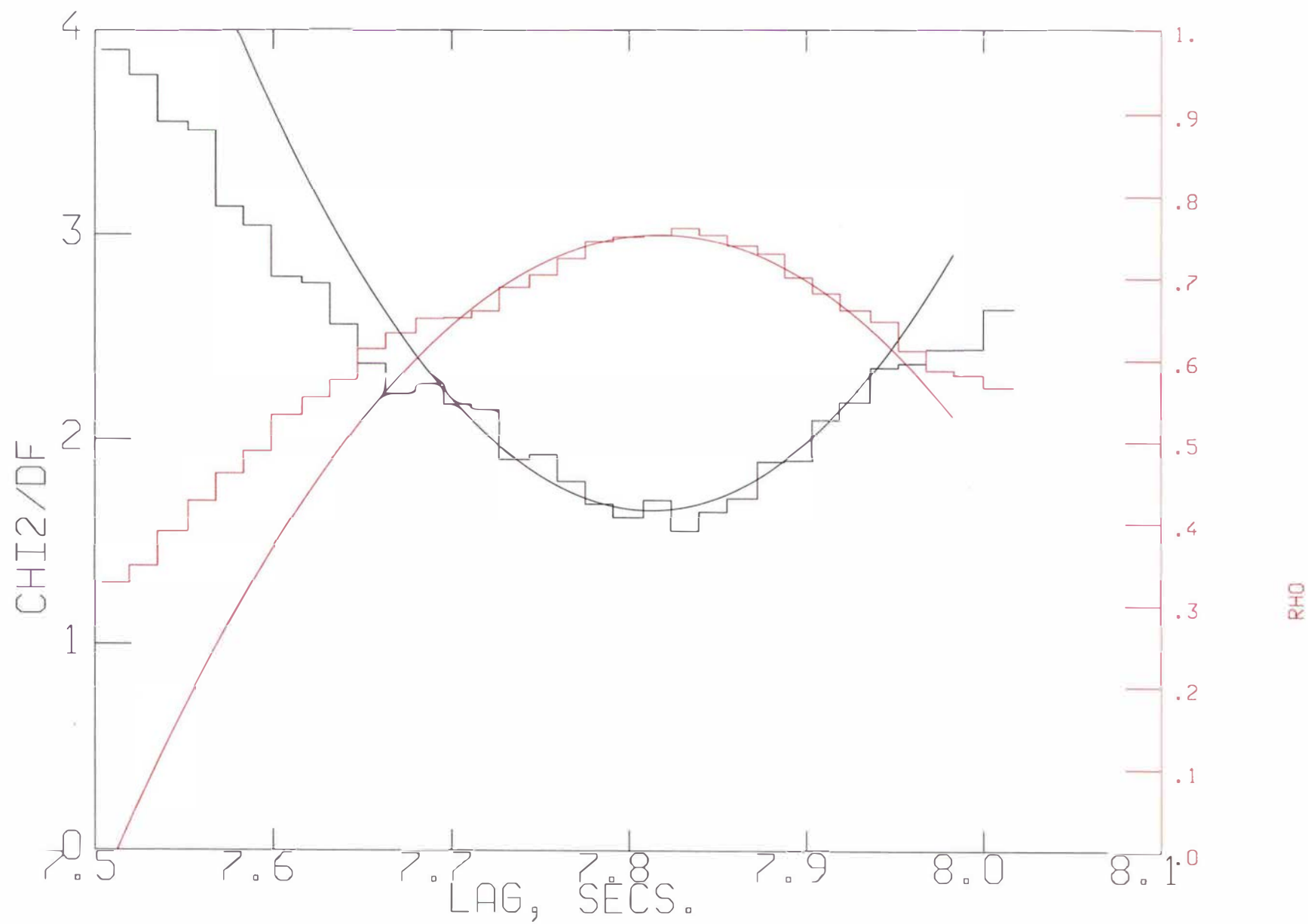
27/04/2015

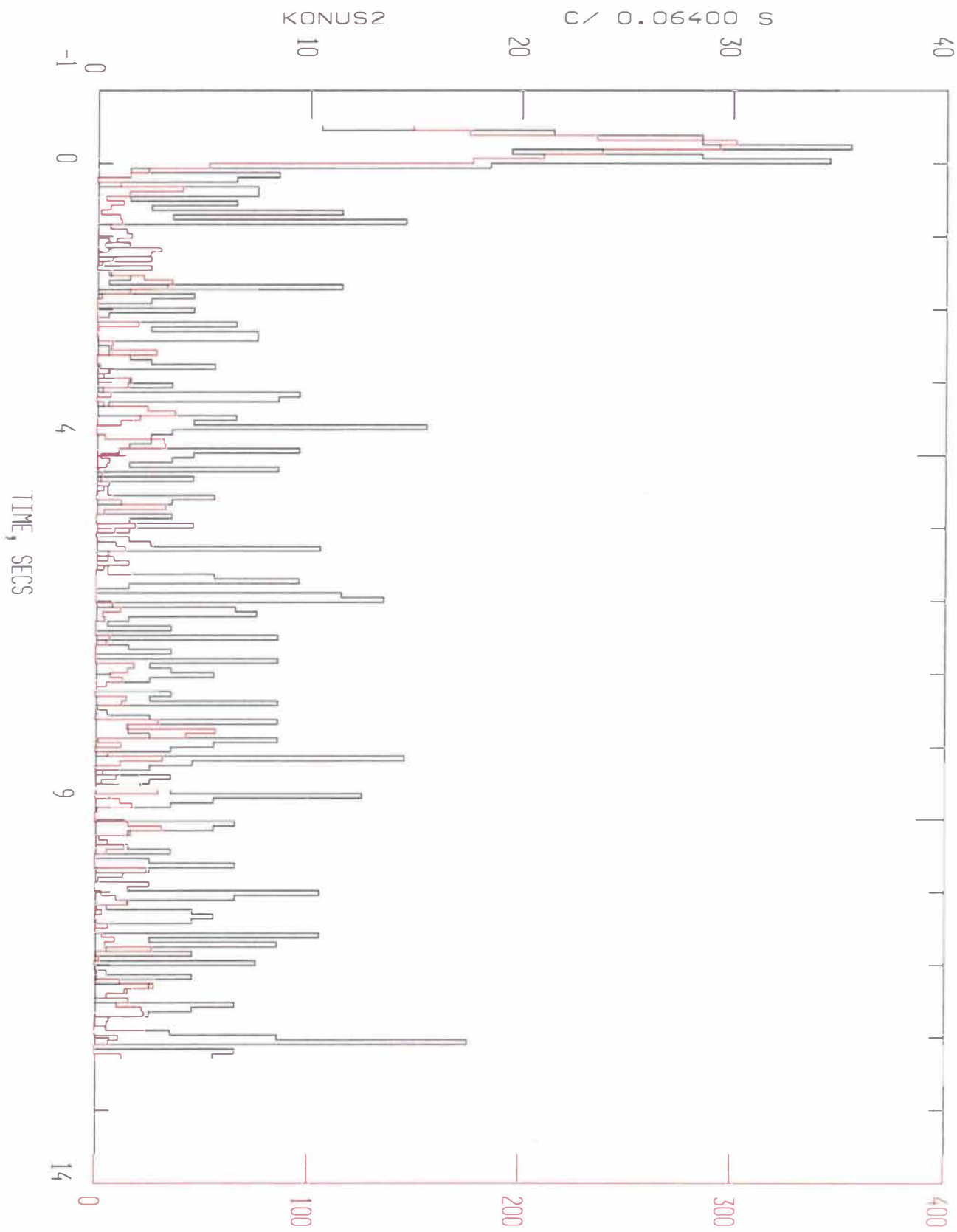
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN
1 KONUS2 2 MO 3 MESSENGER 4 SUZAKU
E=ECLIPTIC G=GALACTIC EQUATOR











KONUS2

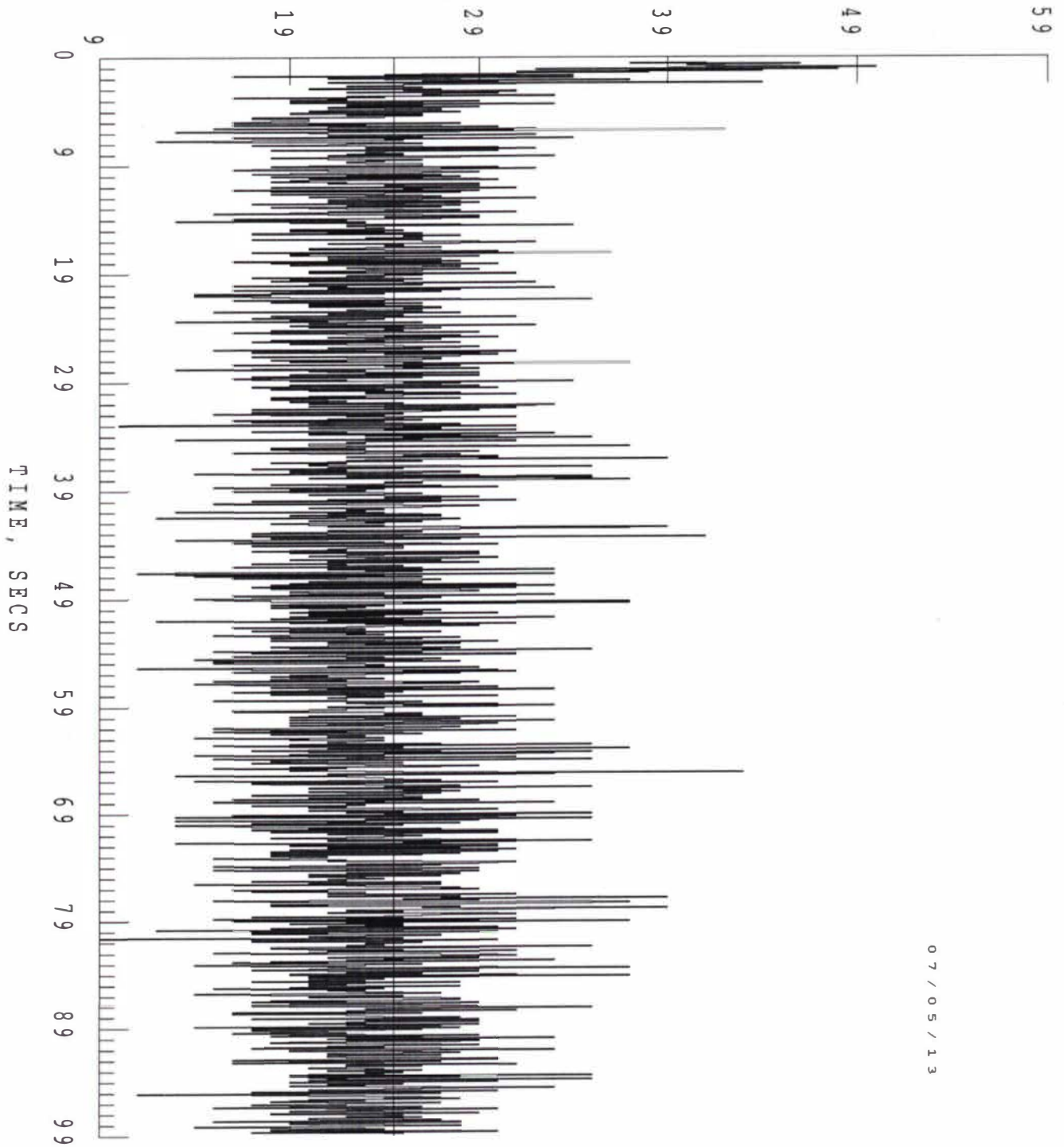
01/05/13

57626.493

B

50 - 200 keV

COUNTS/0.064 S



07/05/13

3

KONUS HRES 20130501 57626

TRIGGER TIME: 01/05/13 DOY 121 Julian 2456415.16697 UT = 16.007 16:00:26 (57626.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

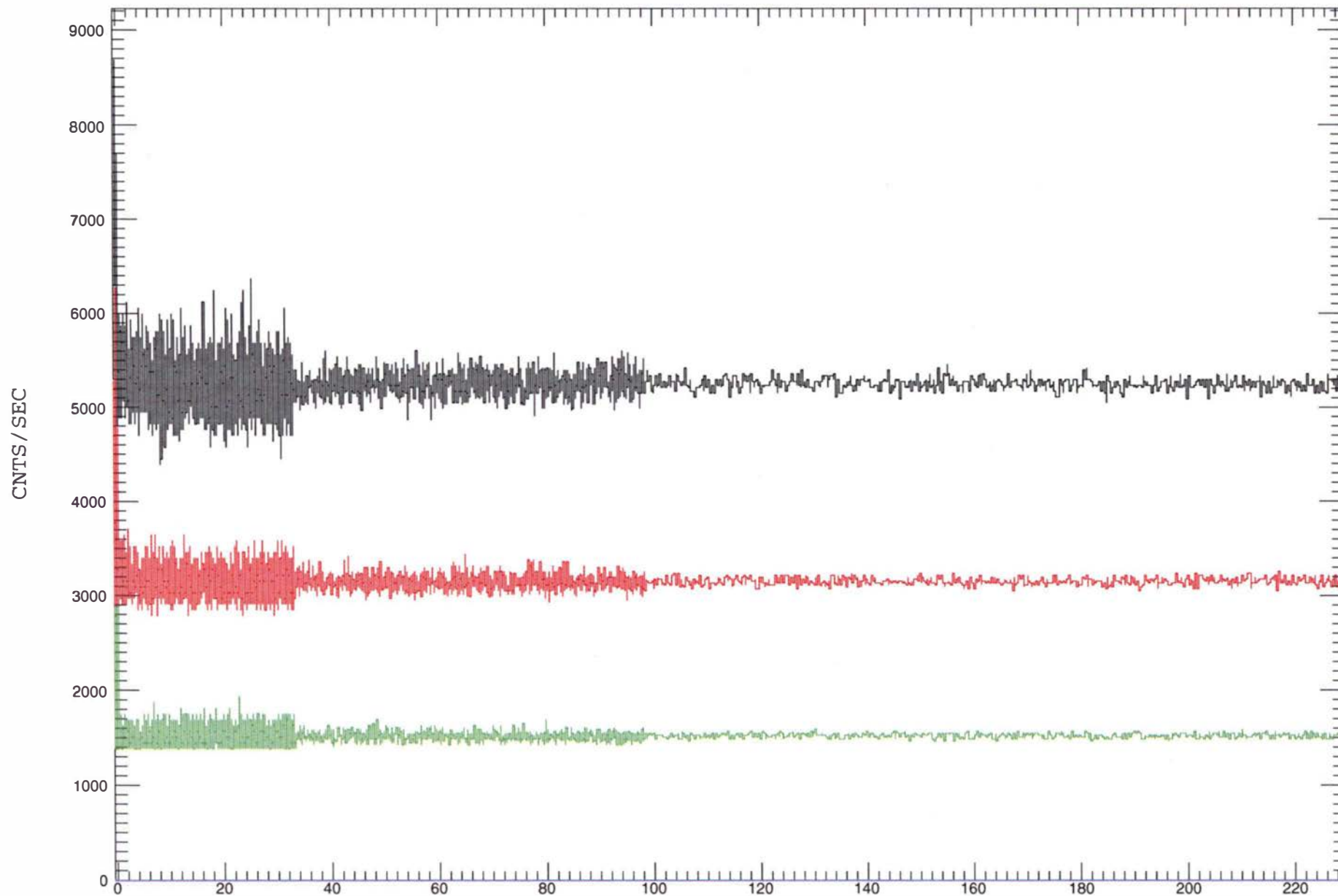
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



ONDS

MS01

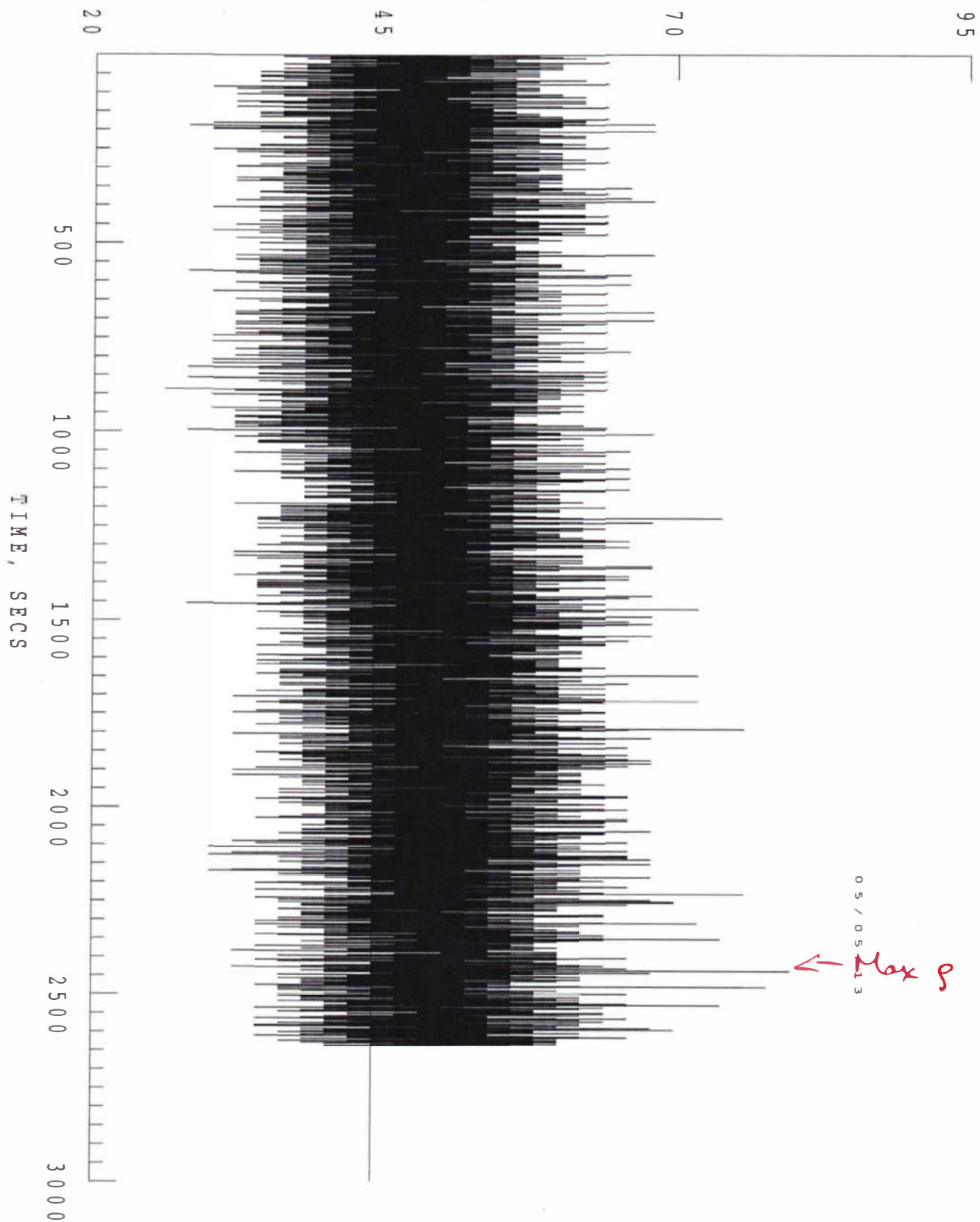
01/05/13

56268.970

B

50 - 3000 keV

COUNTS/0.250 S

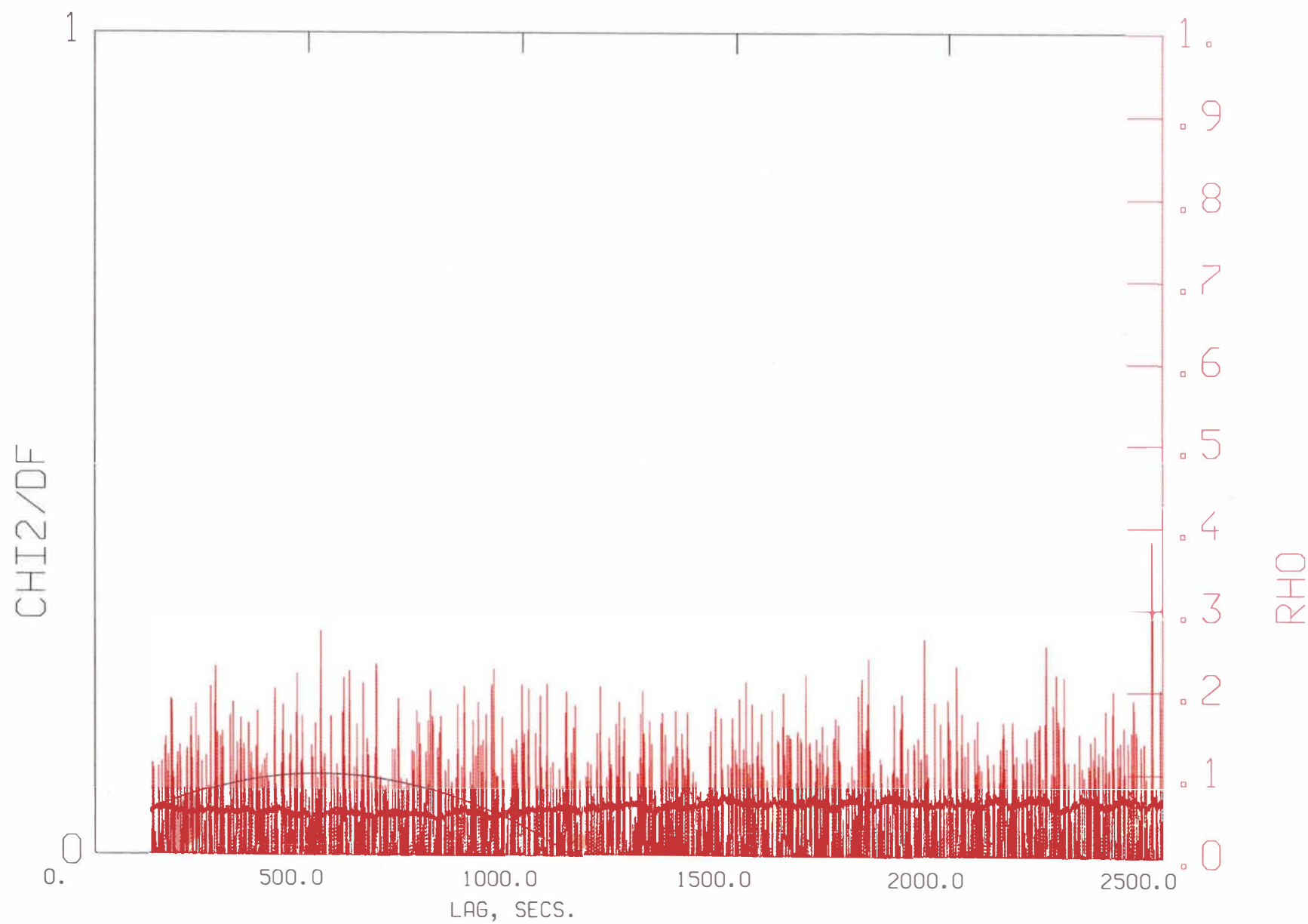


B

INTEGRAL -MS01 HEND CORRELATION

01/05/13 57619.333

22/10/13

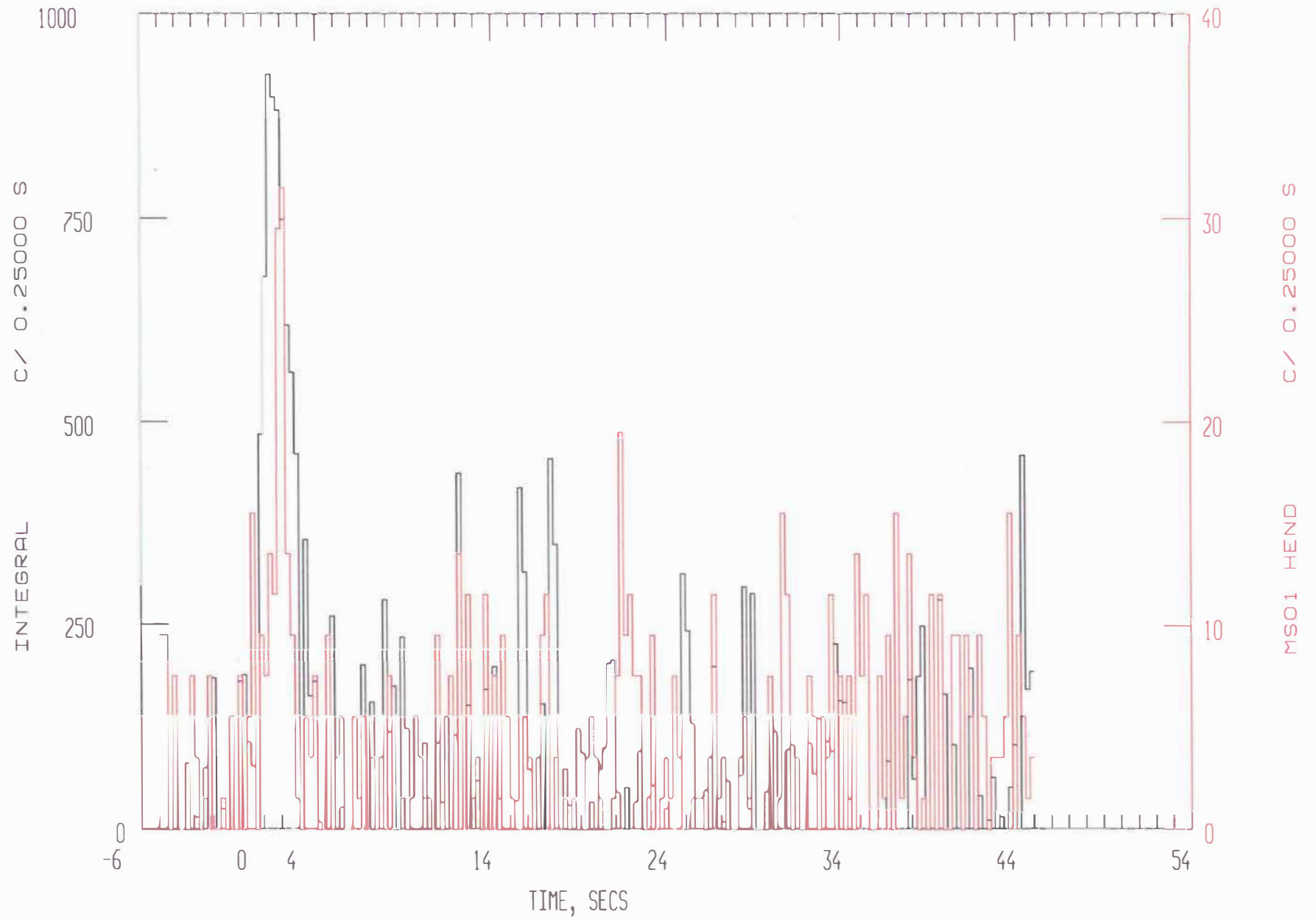


B

INTEGRAL -MS01 HEND CORRELATION

01/05/13 57619.333

22/10/13

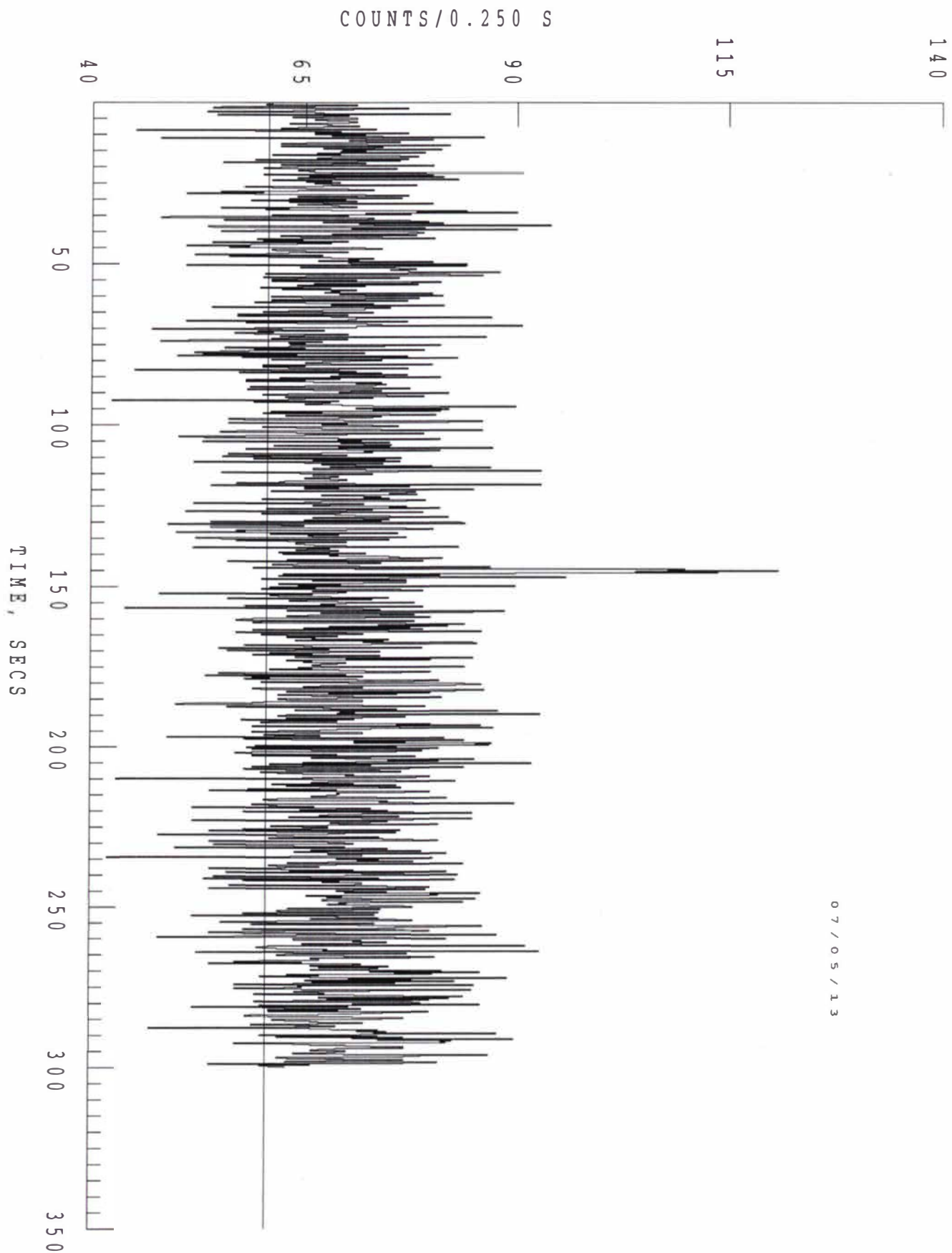


HESSI

01/05/13 57476.000 (KONUS2_20130501_57626)

B

25- 150 keV



INTEGRAL

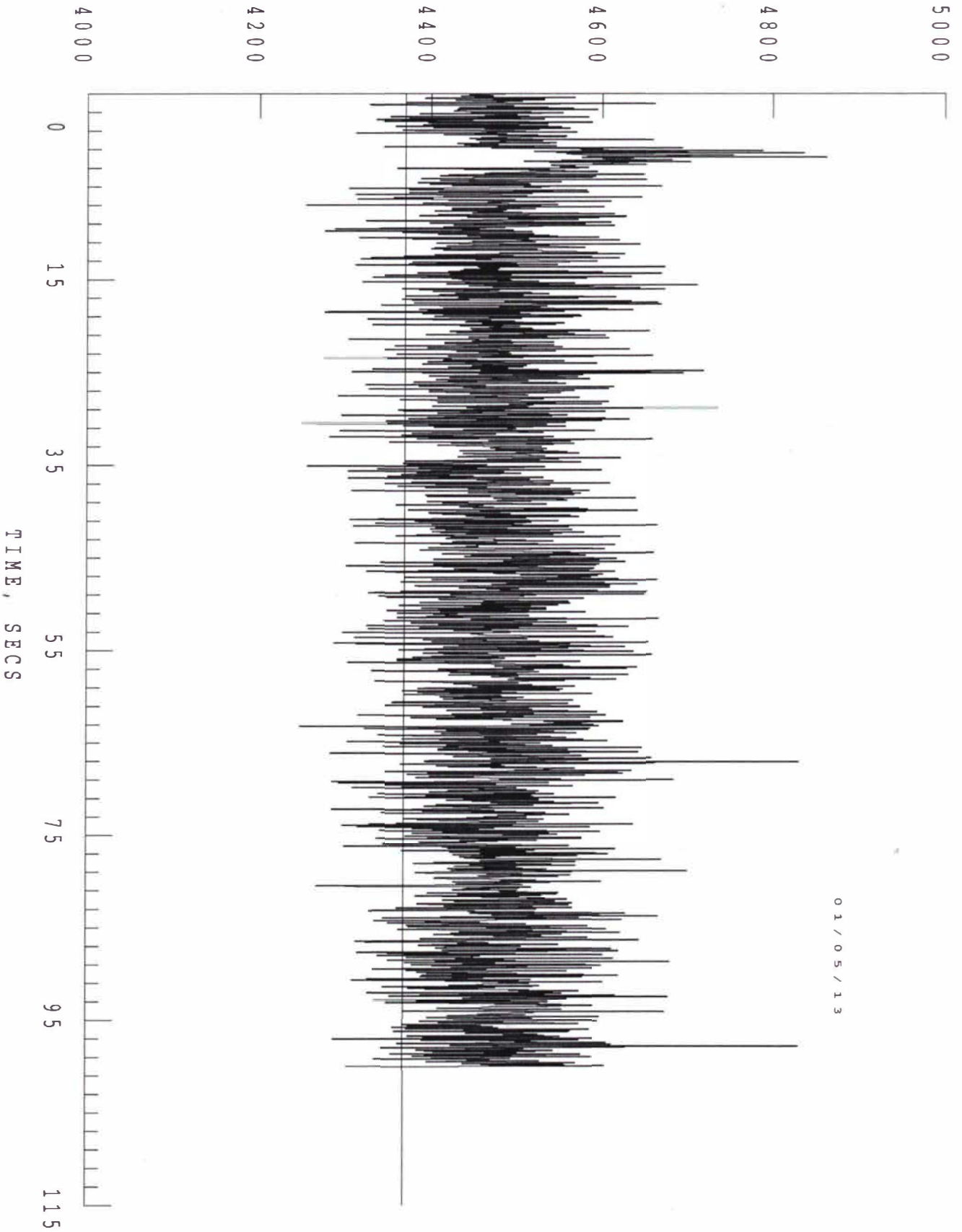
01/05/13

57619.333

B

100-10000 keV

COUNTS/0.050 S



01/05/13

B

Subject: [Ipn] BAT lightcurve for trigger at 130501_1600

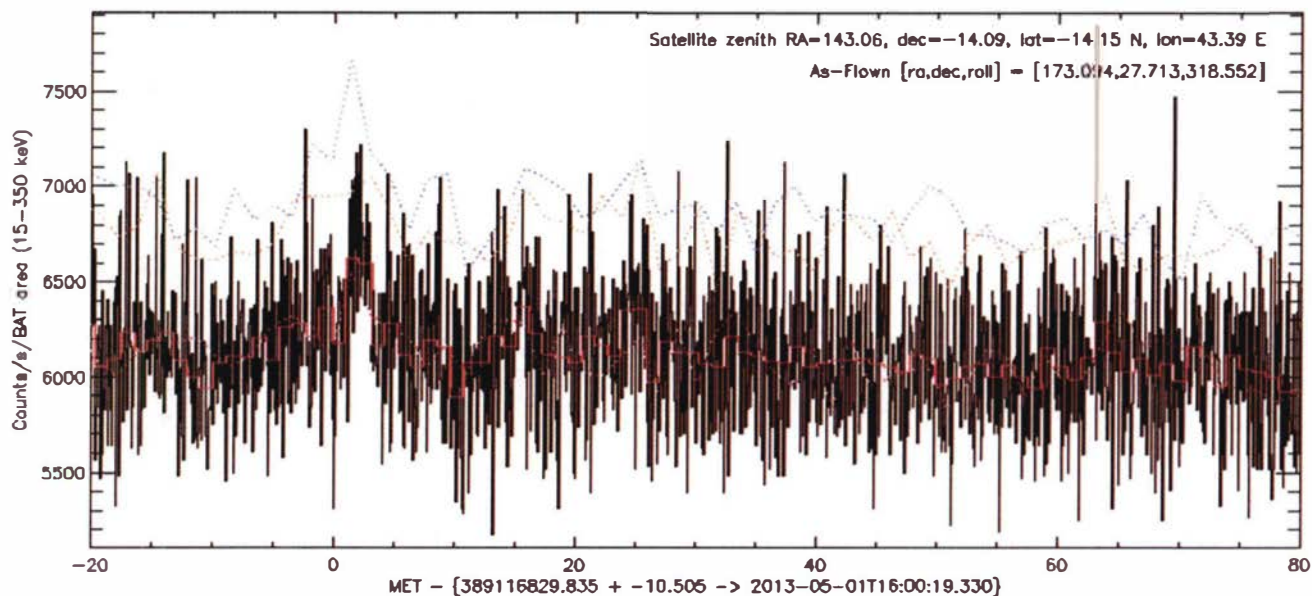
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/1/2013 1:05 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130501_1600.png



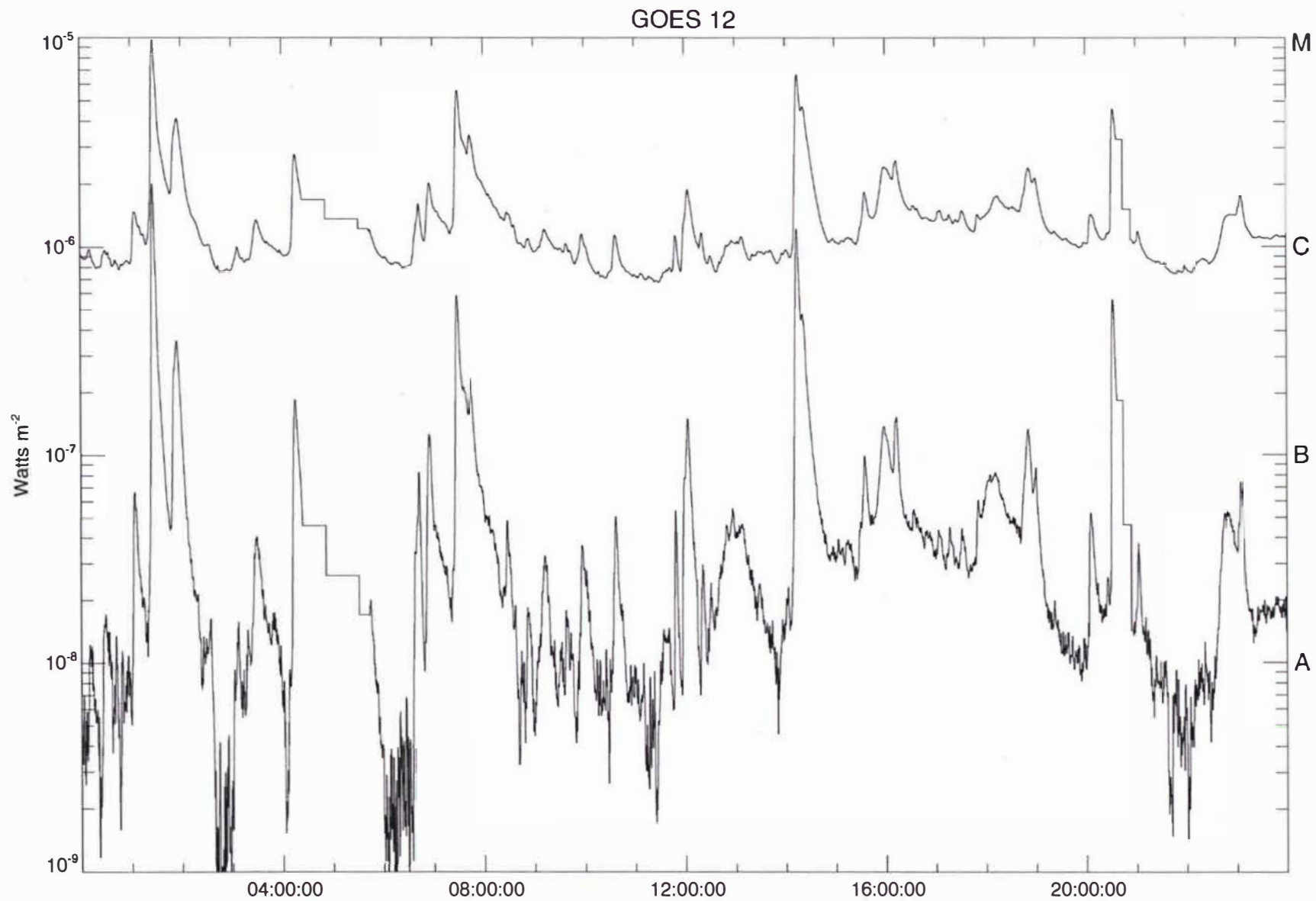
```
% /usr/local/bin/swinfo -o 389116829.835
Time(MET + UTC -> UT): 389116829.835 + -10.505 -> 2013-05-01T16:00:19.330
YYMMDD_SOD: 130501_57619.330 DOY=121
Swift Zenith(RA,dec): 143.06, -14.09
Swift Location(lon,lat,alt): 43.39 E, -14.15 N, 572 km
Obs Sequence Number: 00554620026
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-01 15:53:51 - 16:12:49
Obs Pointing(ra,dec,roll): 173.094, 27.713, 318.55
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130501_1600_bat64ms_ipn	87.1 KB
/tmp/130501_1600.png	18.8 KB



Data Start: 13/05/01, 0000:13

Plot created: 13/05/04, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

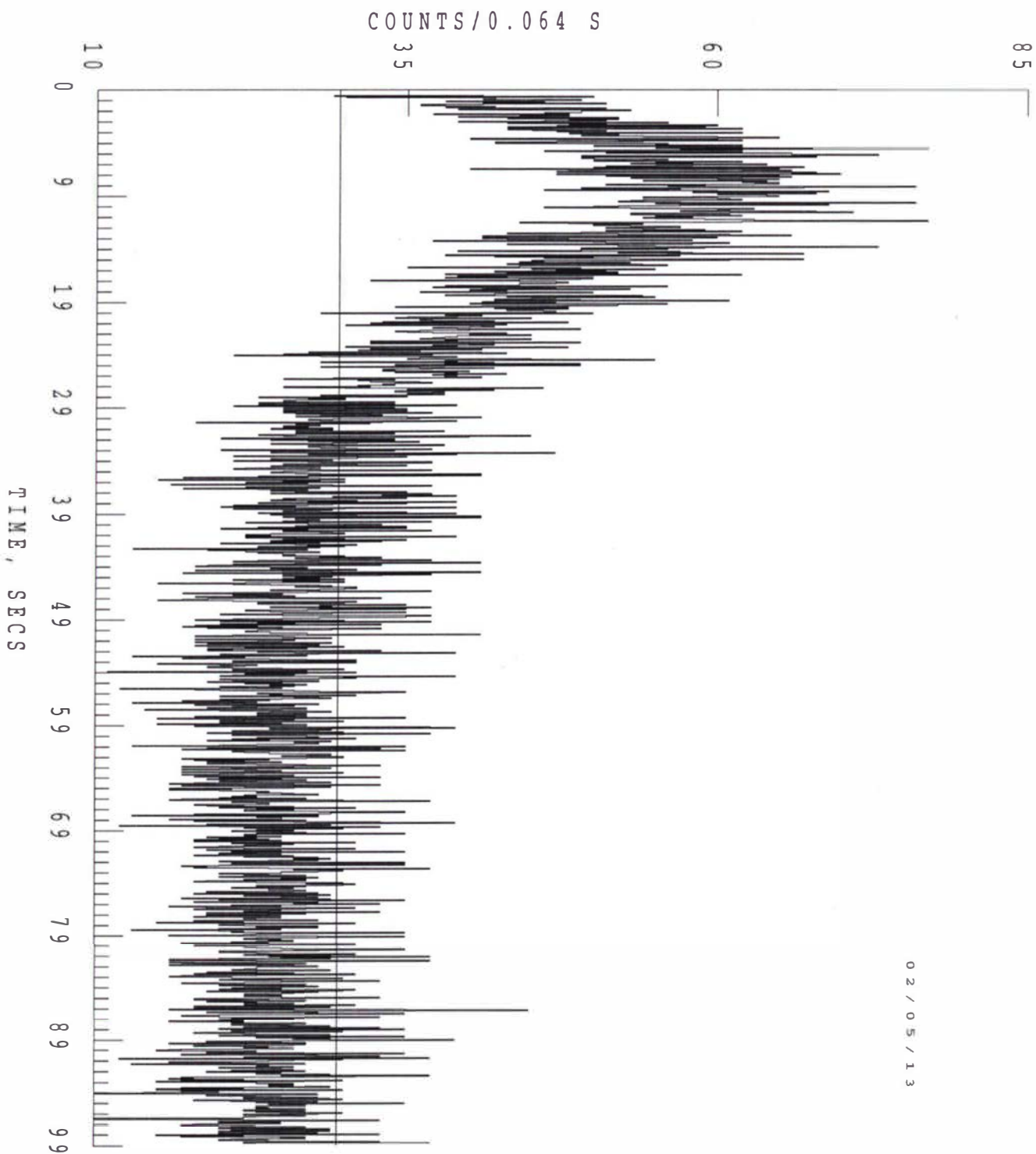
02/05/13

18276.656

A

50 - 200 keV

Solar



A

KONUS HRES 20130502 18276

TRIGGER TIME: 02/05/13 DOY 122 Julian 2456415.71153 UT = 05.077 05:04:36 (18276.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

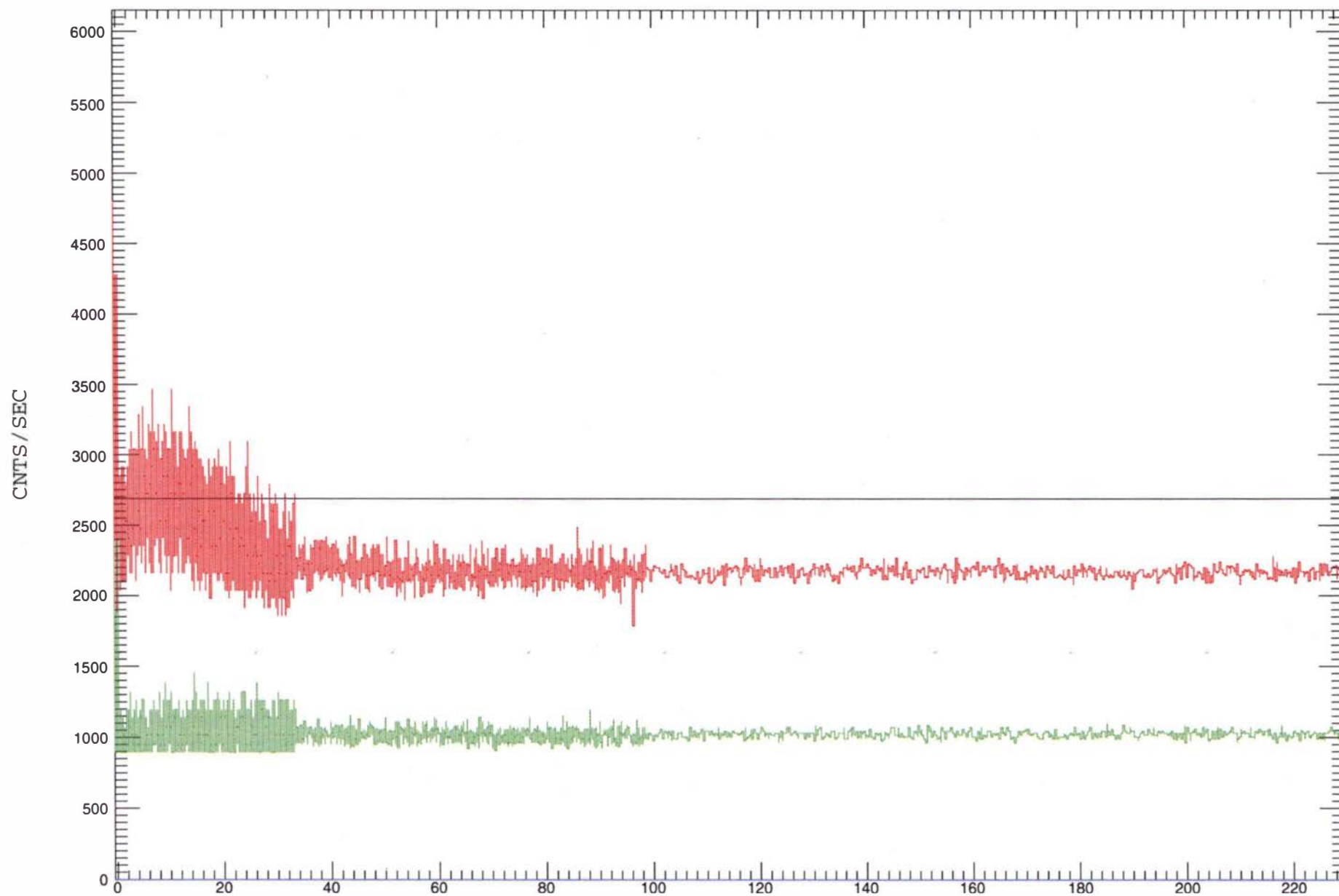
Chan 4 : [> 10 MeV]

Channel 1 + 2700

Channel 2 + 1800

Channel 3 + 900

Channel 4 + 0



ONDS

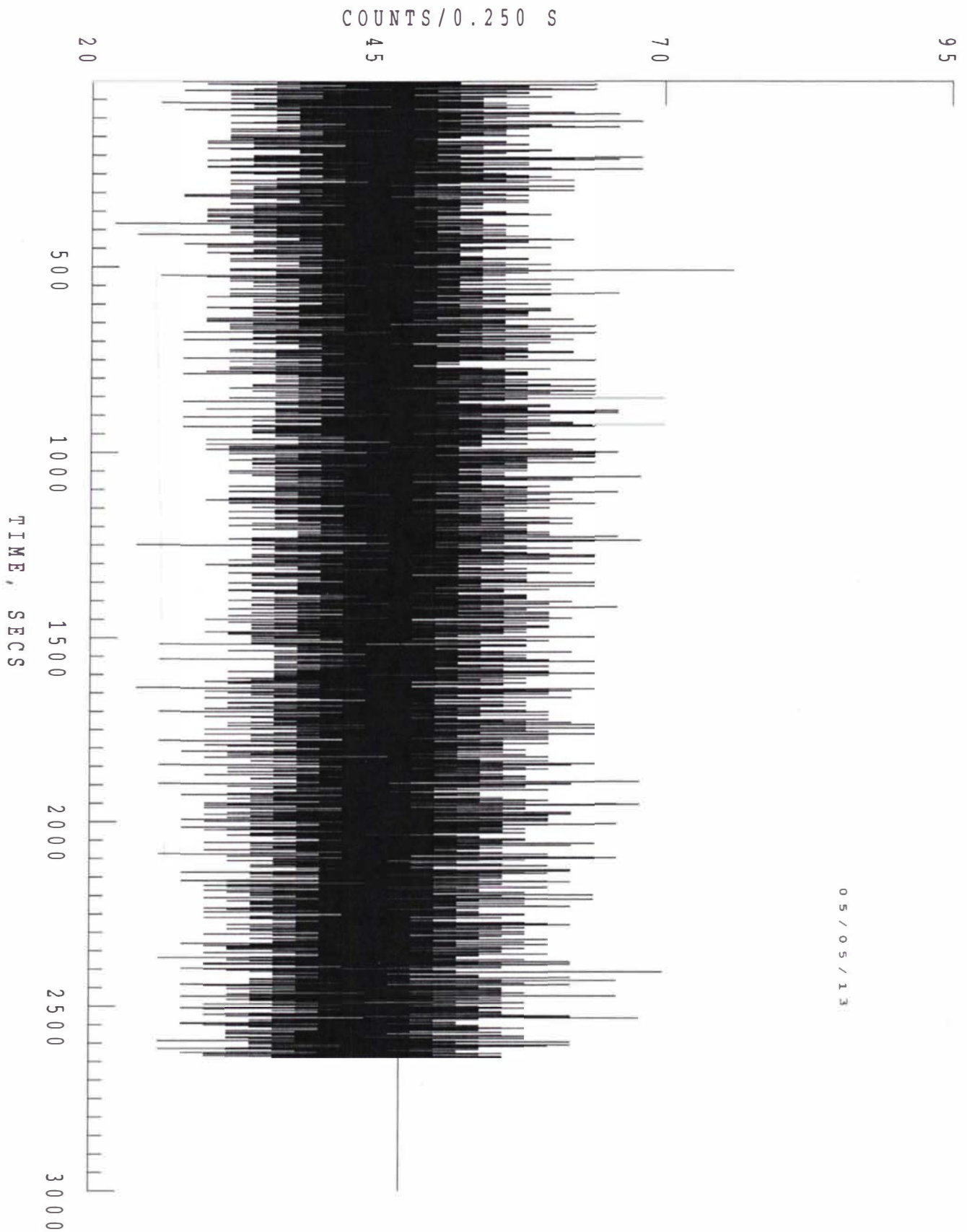
MS01

02/05/13

16968.181

A

50 - 3000 keV

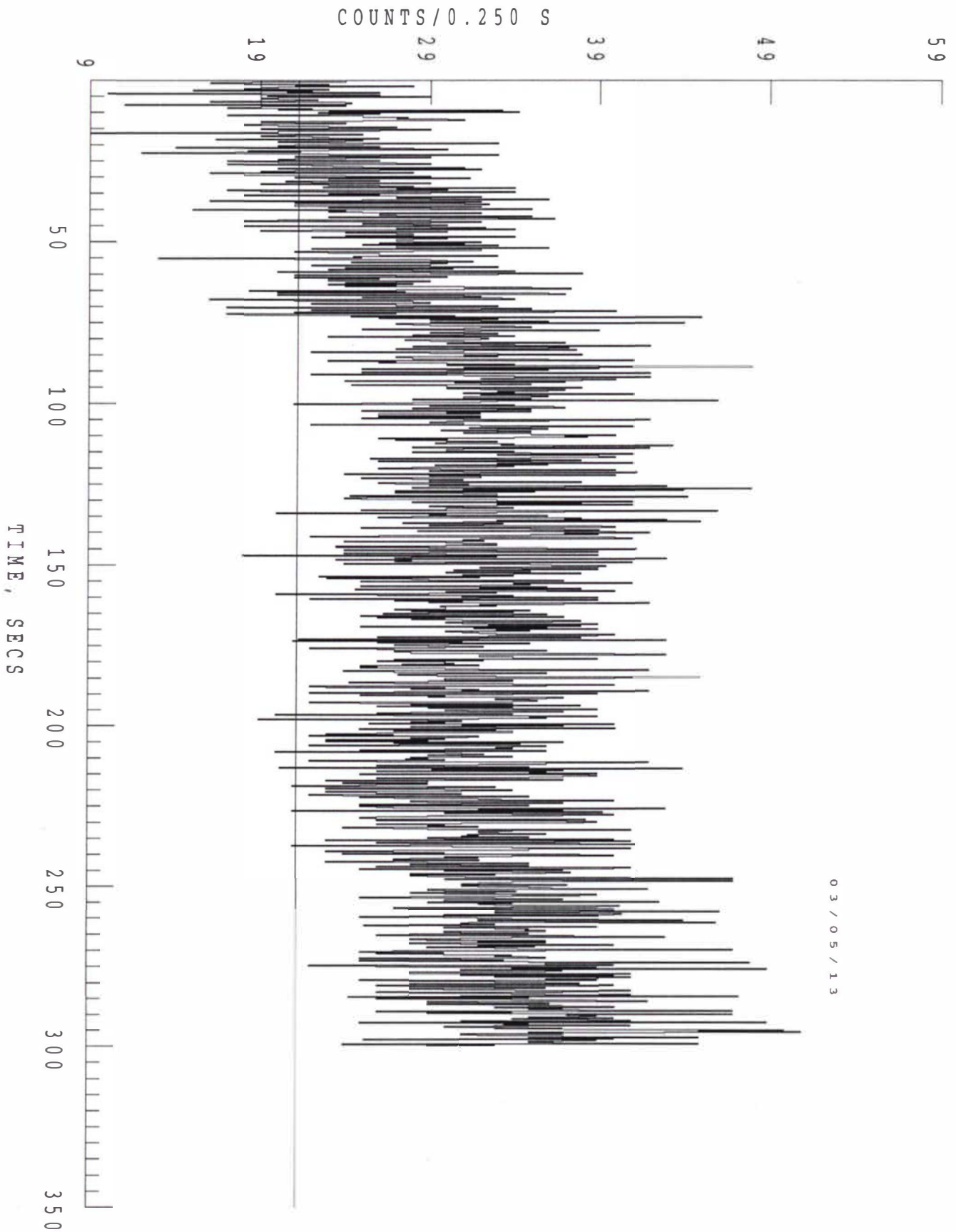


HESSI

02/05/13 18134.000 (SUZAKU_20130502_18284)

A

25- 150 keV



Subject: [Ipn] BAT lightcurve for trigger at 130502_0504

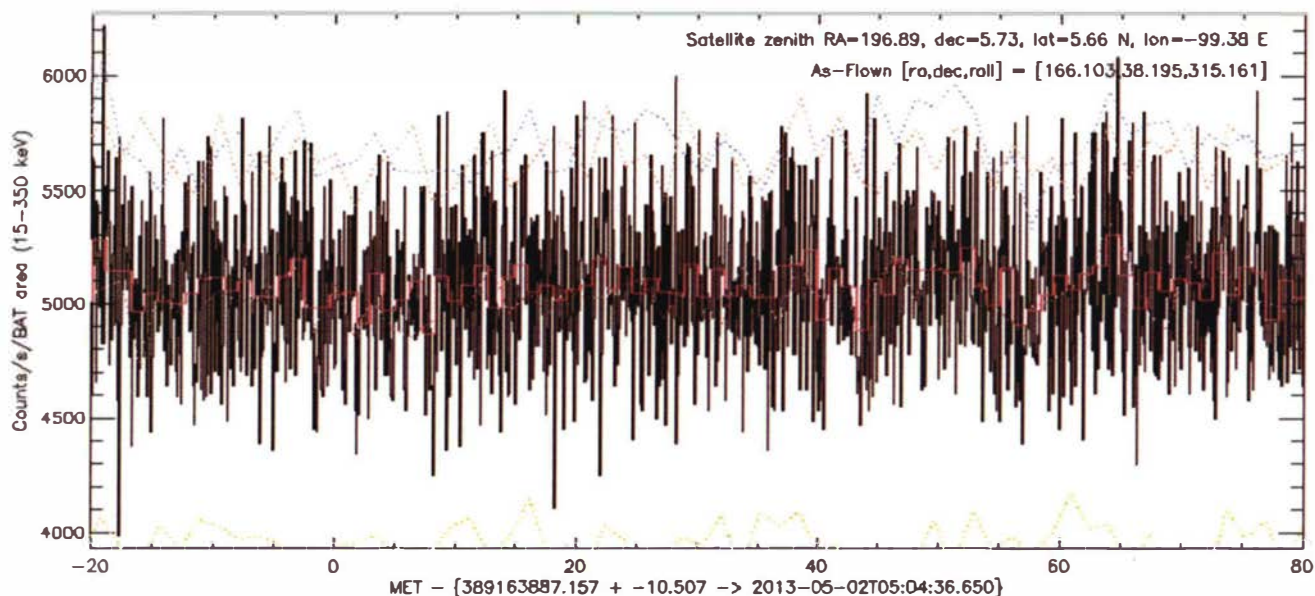
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/2/2013 7:07 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130502_0504.png



```
% /usr/local/bin/swinfo -o 389163887.157
Time(MET + UTC -> UT): 389163887.157 + -10.507 -> 2013-05-02T05:04:36.650
YYMMDD_SOD: 130502_18276.650 DOY=122
Swift Zenith(RA,dec): 196.89, 5.73
Swift Location(lon,lat,alt): -99.38 E, 5.66 N, 566 km
Obs Sequence Number: 00035014072
Obs Target Name: Mkn 421
Obs Date and Times: 2013-05-02 04:40:51 - 05:10:49
Obs Pointing(ra,dec,roll): 166.103, 38.195, 315.16
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130502_0504.png	20.0 KB
/tmp/130502_0504_bat64ms_ipn	87.0 KB

SUZAKU

02/05/13

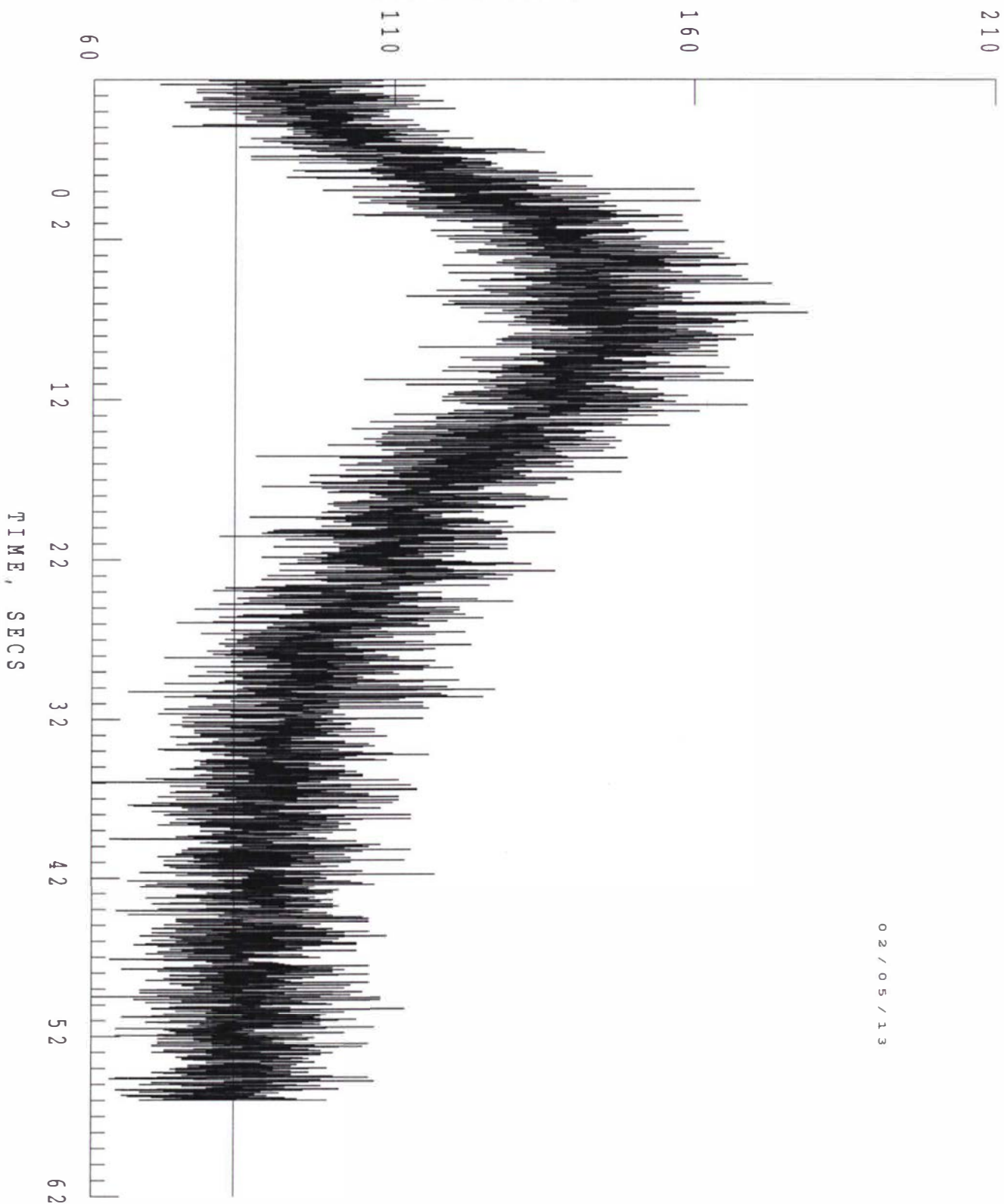
18284.118

A

50 - 240 keV

Solar

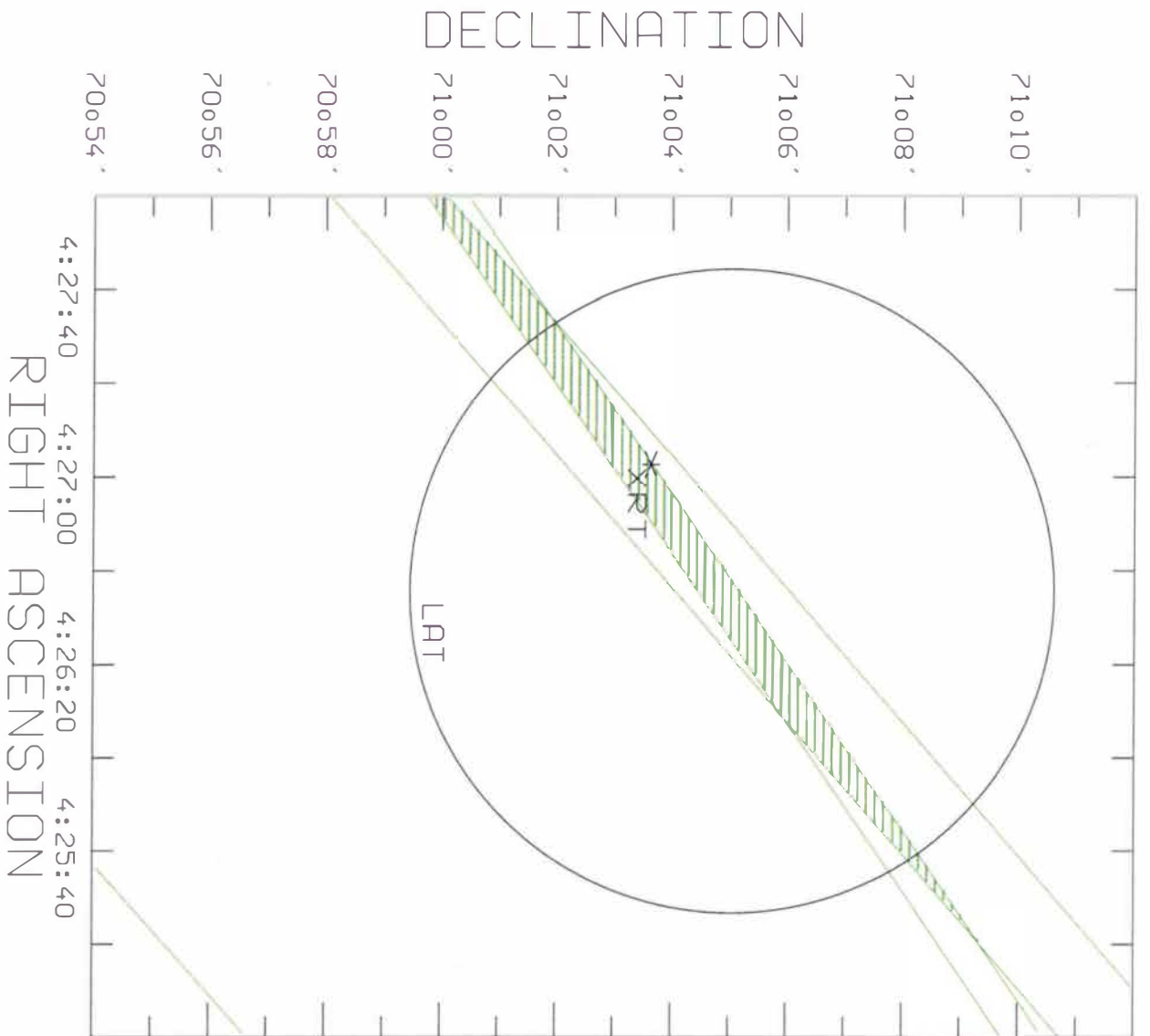
COUNTS/0.016 S

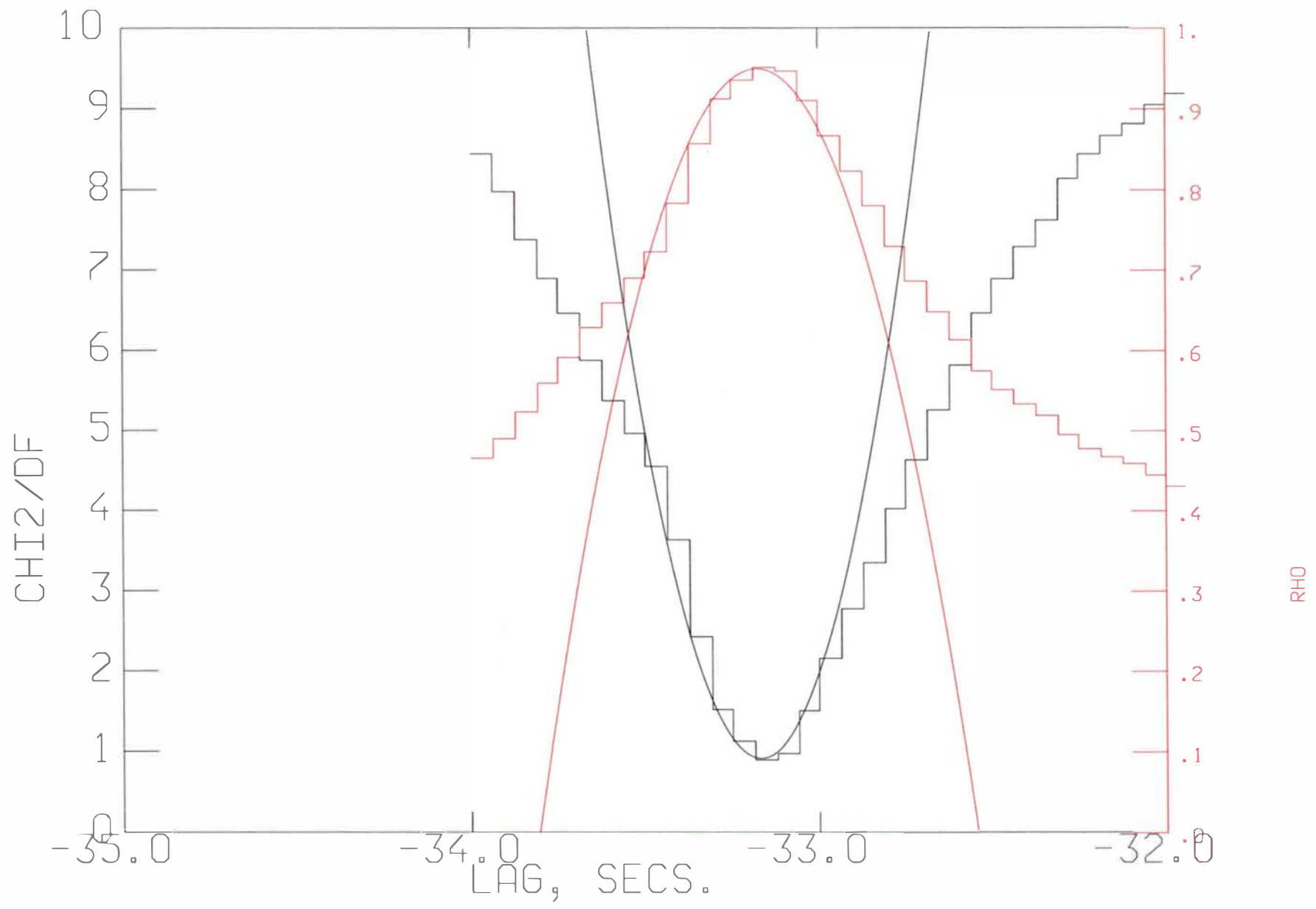


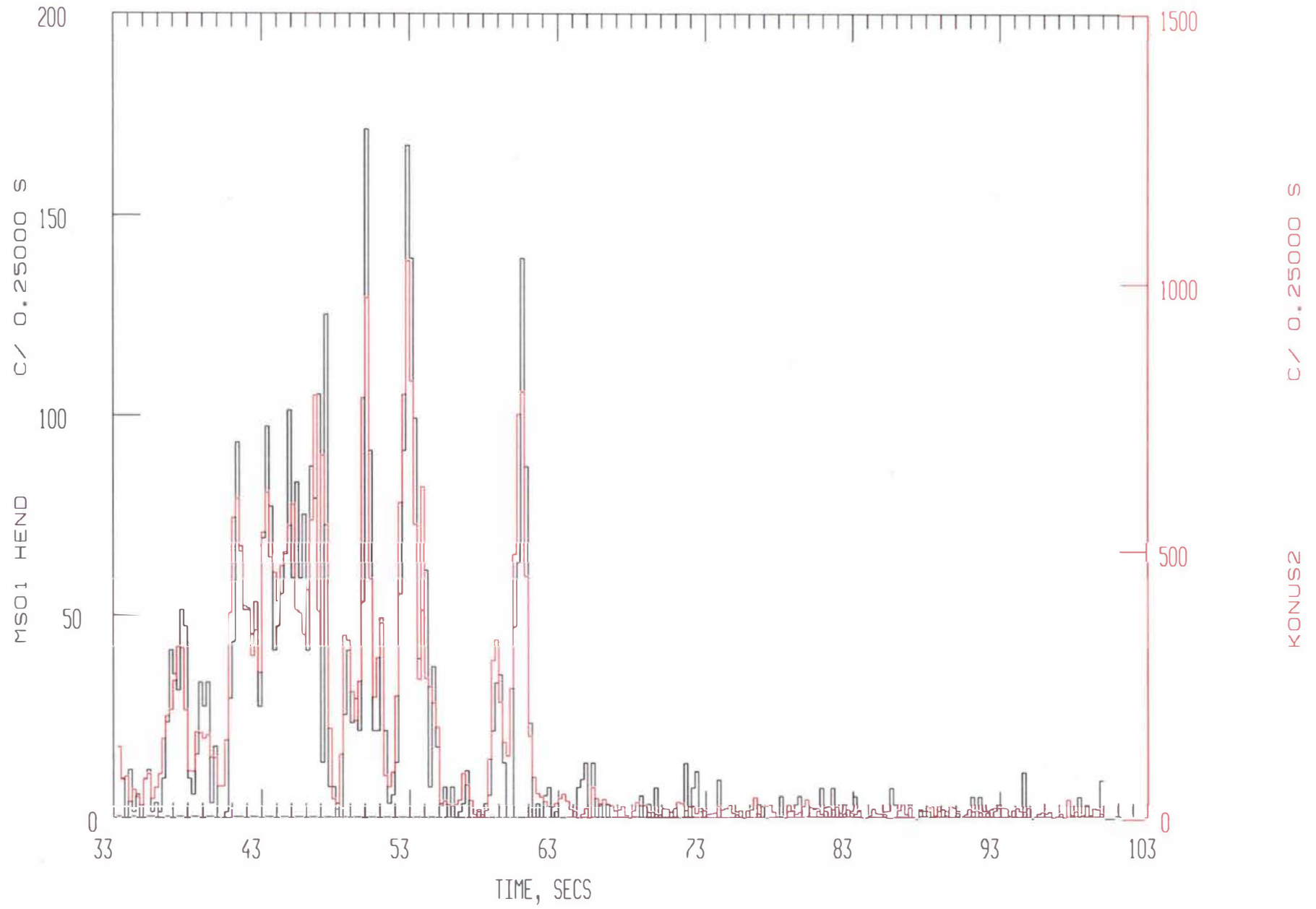
XRT position in ACCESS

GRB130502 ~28275 S

06/05/2013







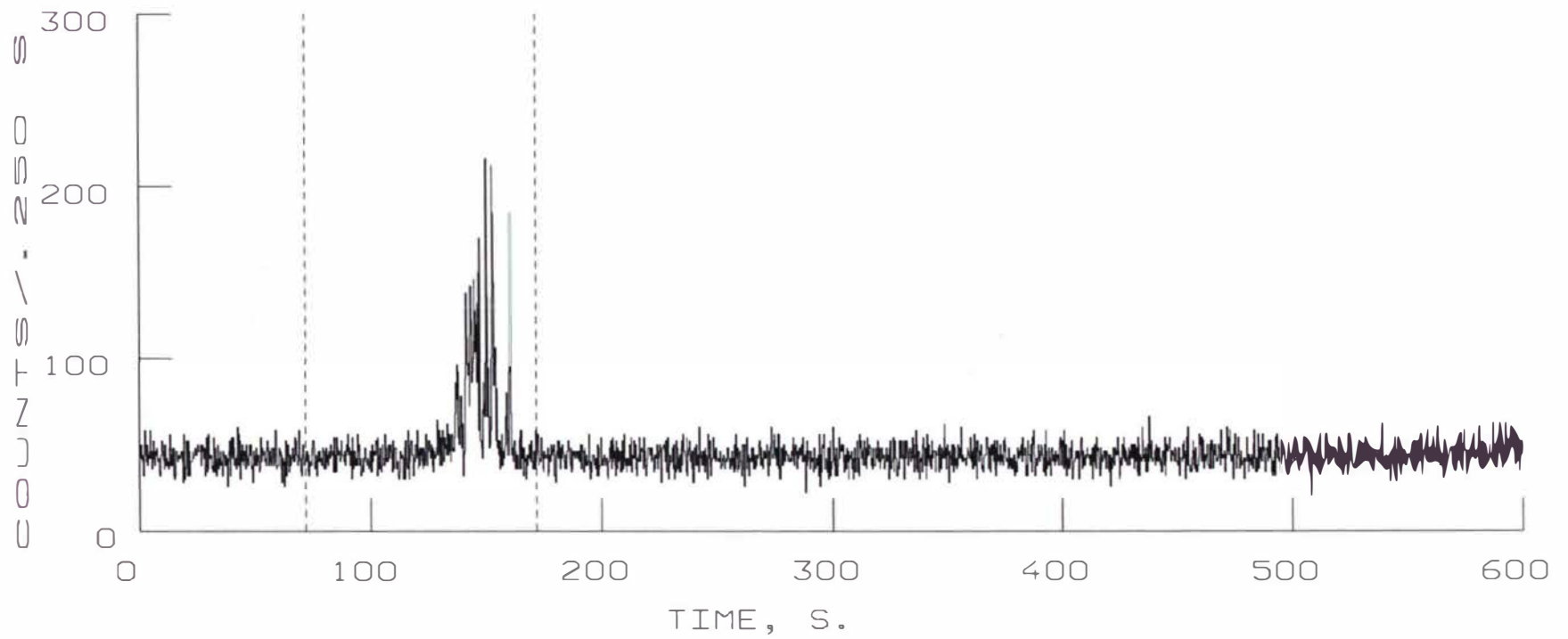
MS01 HEND

06/05/2013

02/05/2013 27528.016 s

50-3000 keV

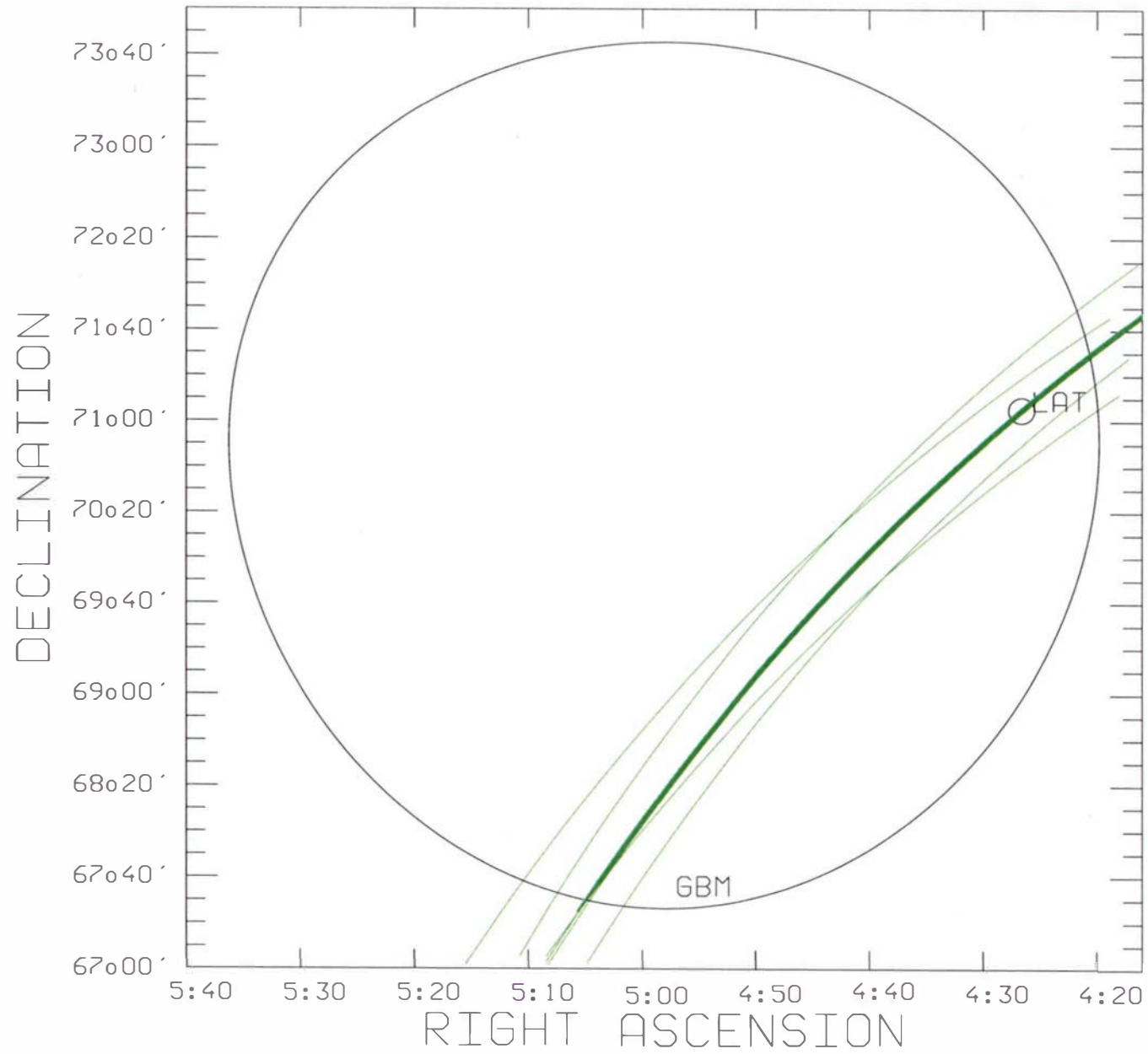
N= 10 M=80
>4.0 SIGMA FLUCTUATIONS

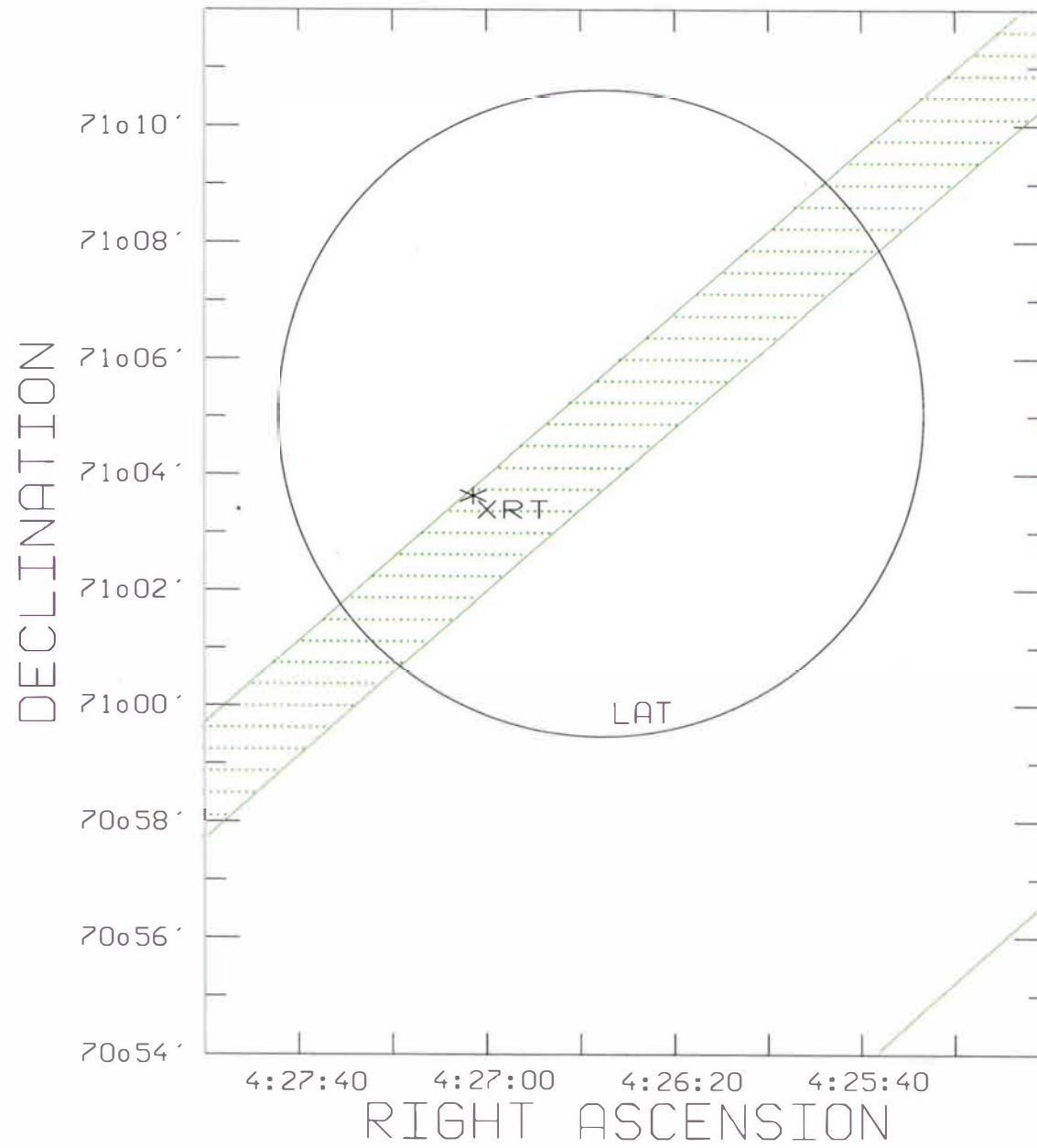


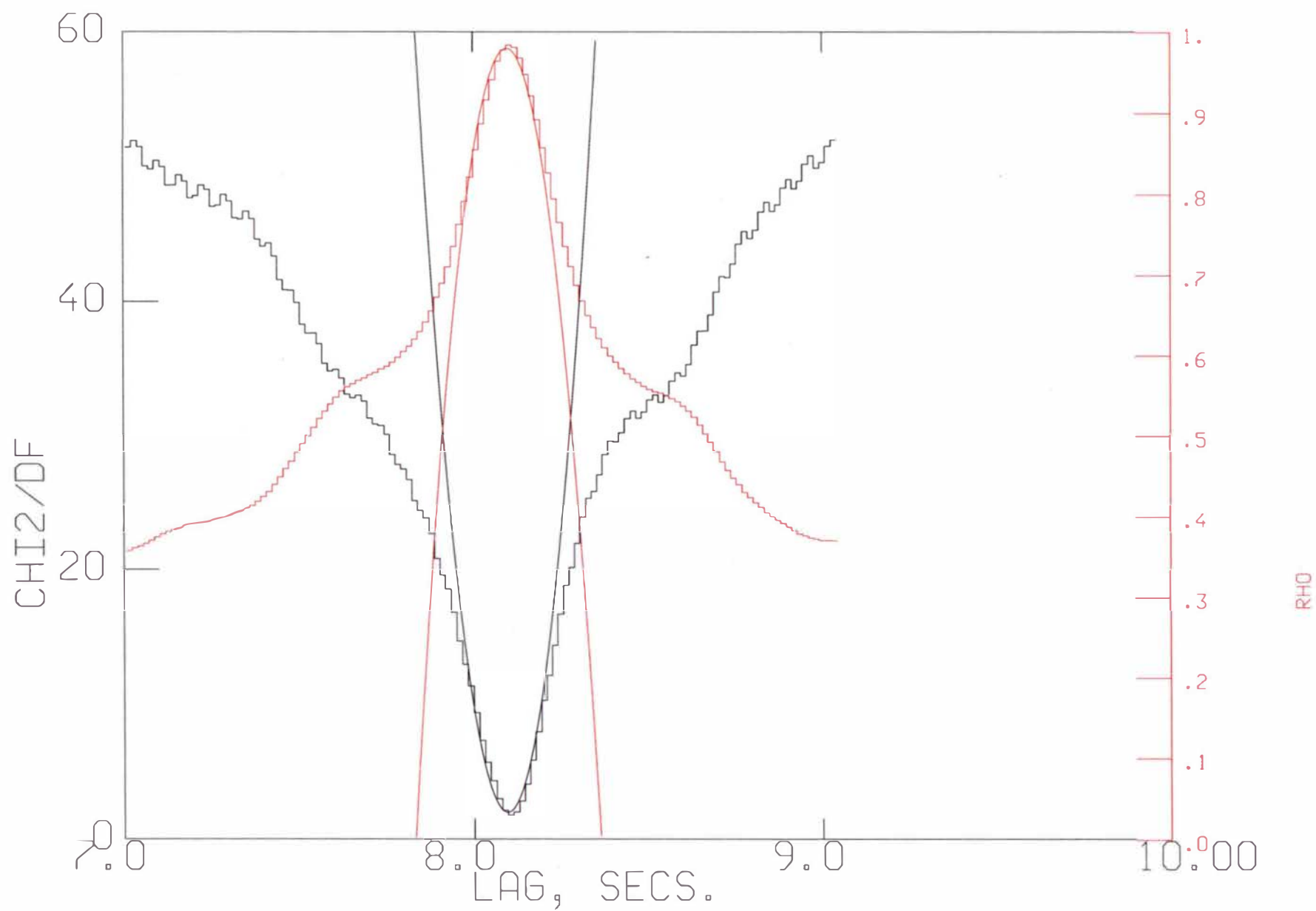
B

GRB130502 ~28275 S

03/05/2013







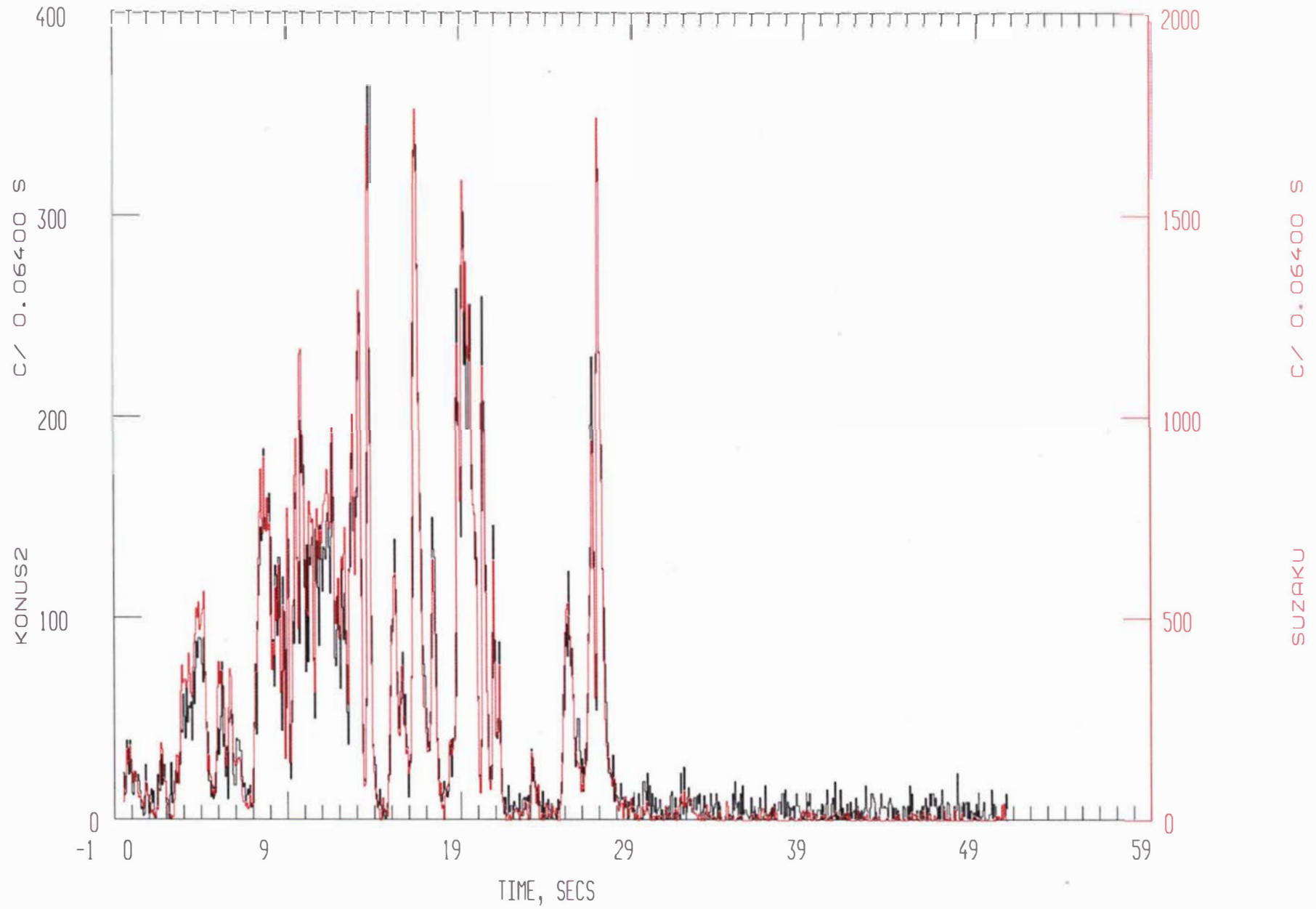
KONUS2

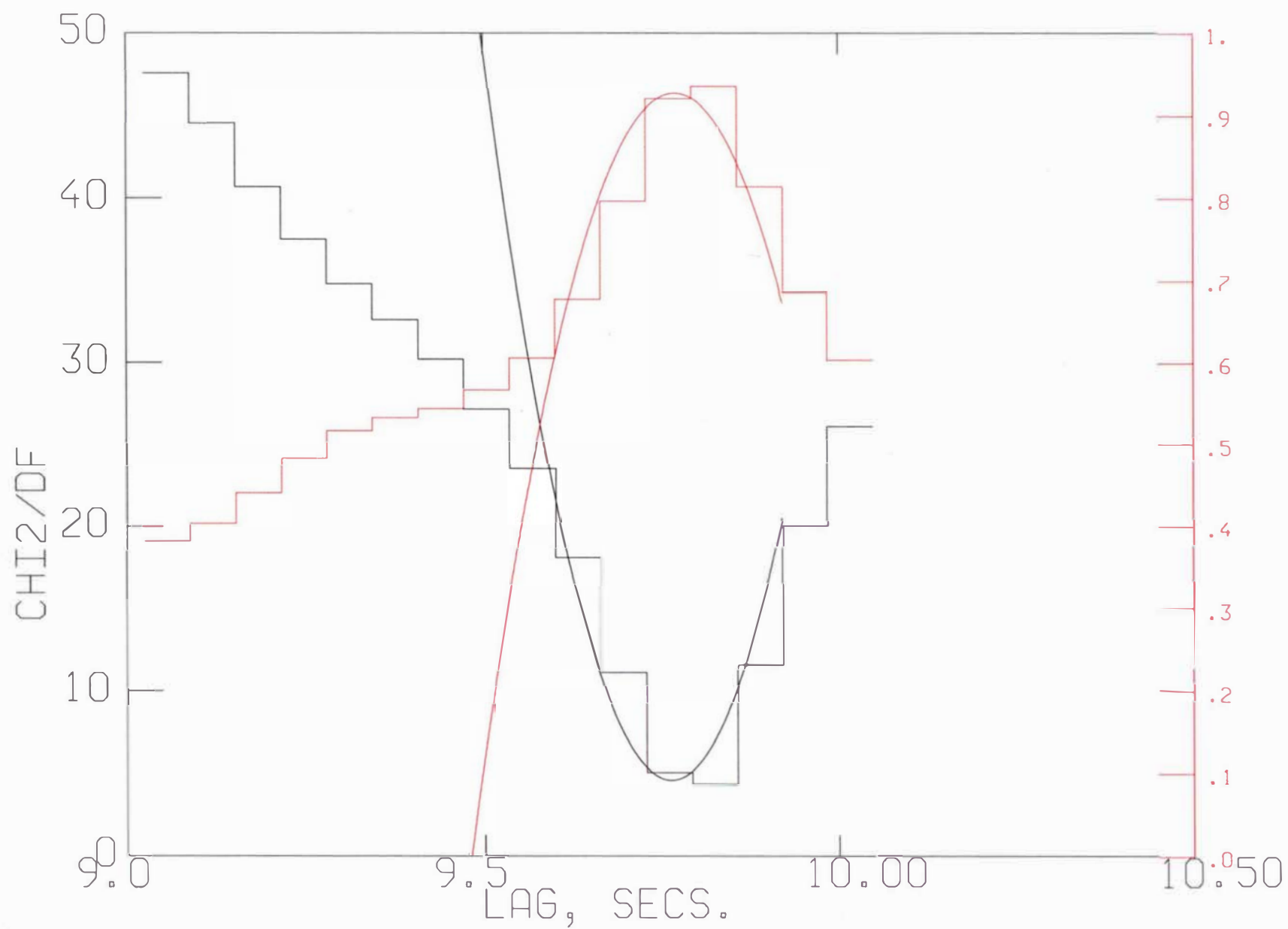
-SUZAKU

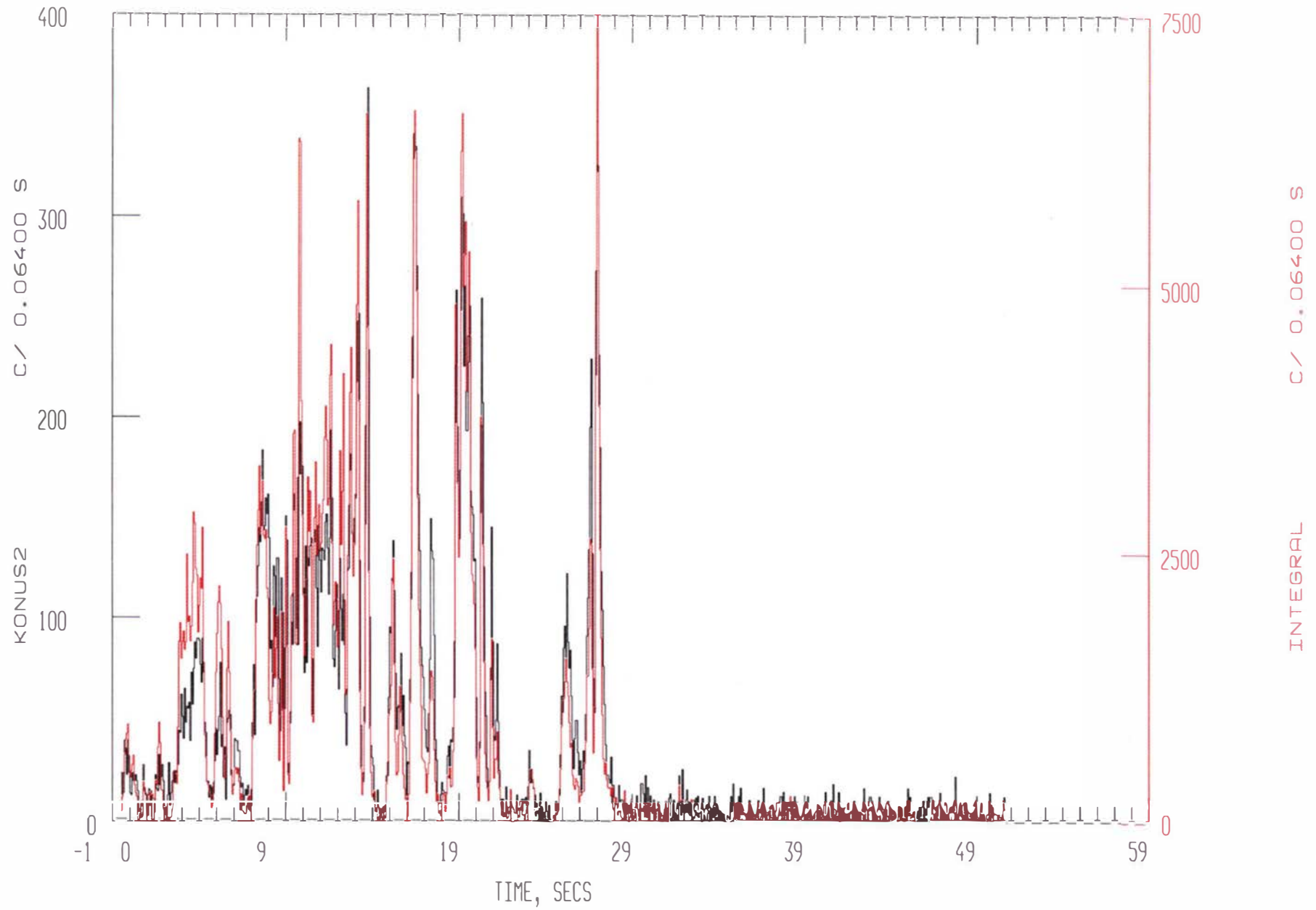
CORRELATION

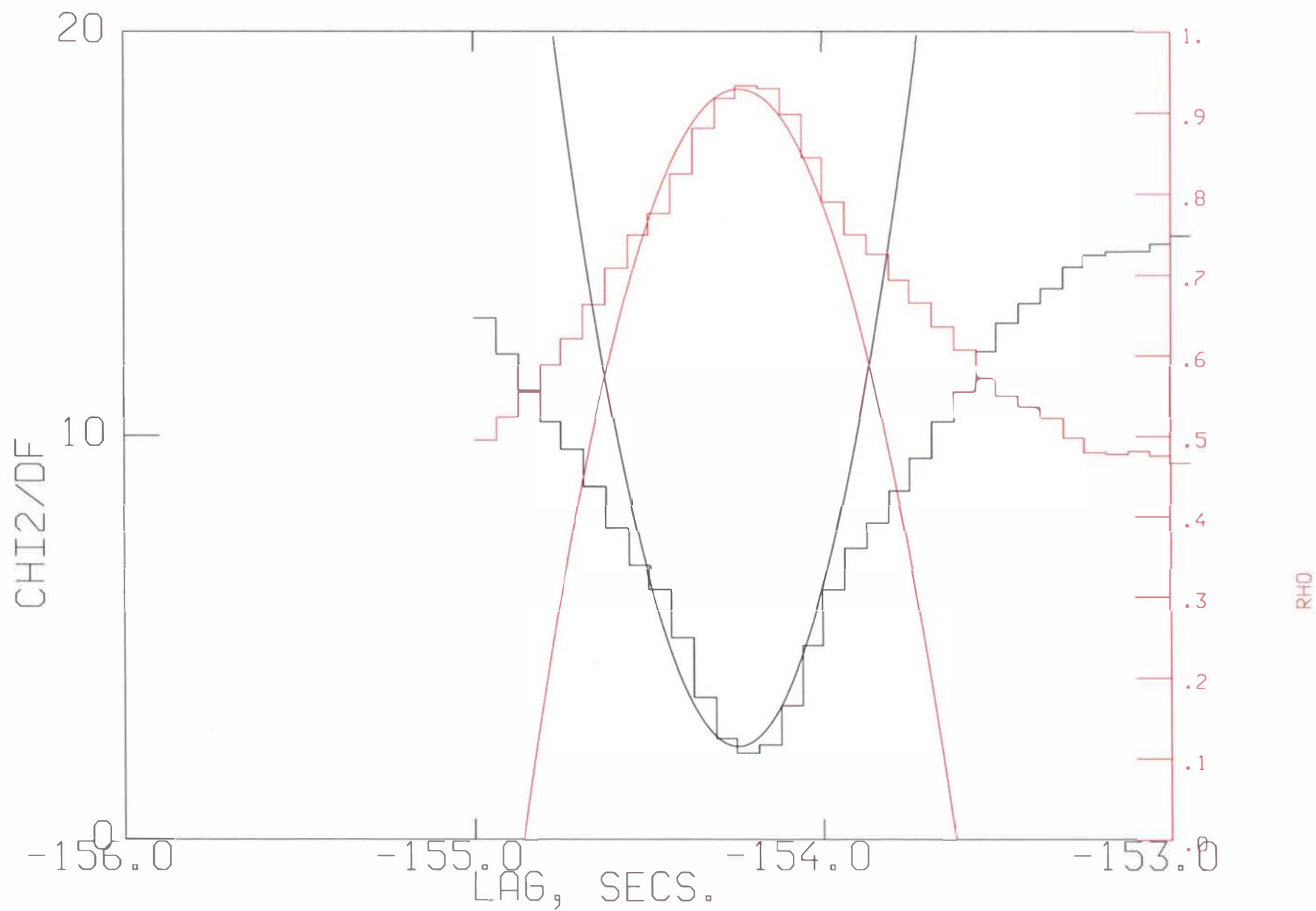
02/05/13 28272.763

3/ 5/13









HESSI

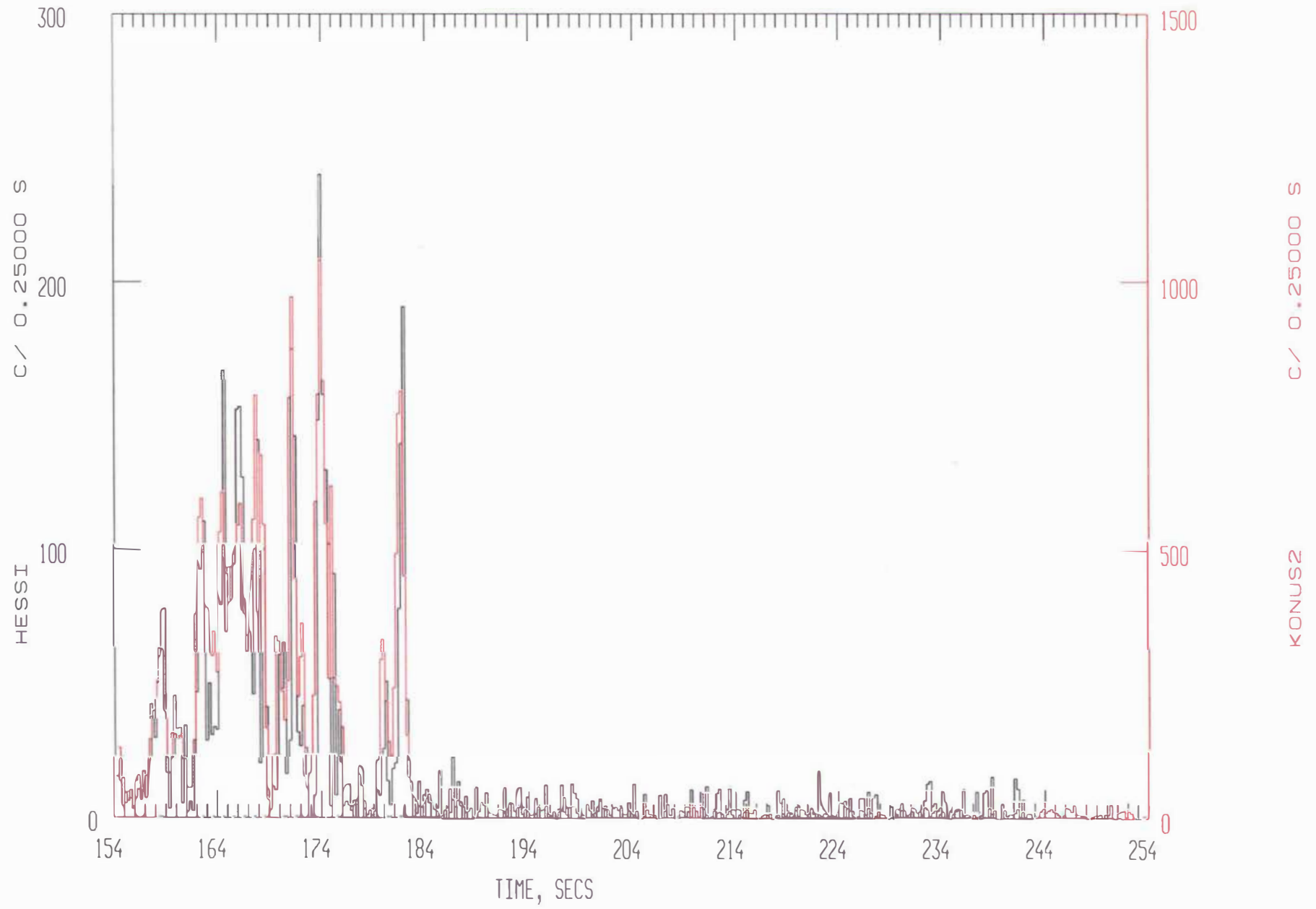
-KONUS2

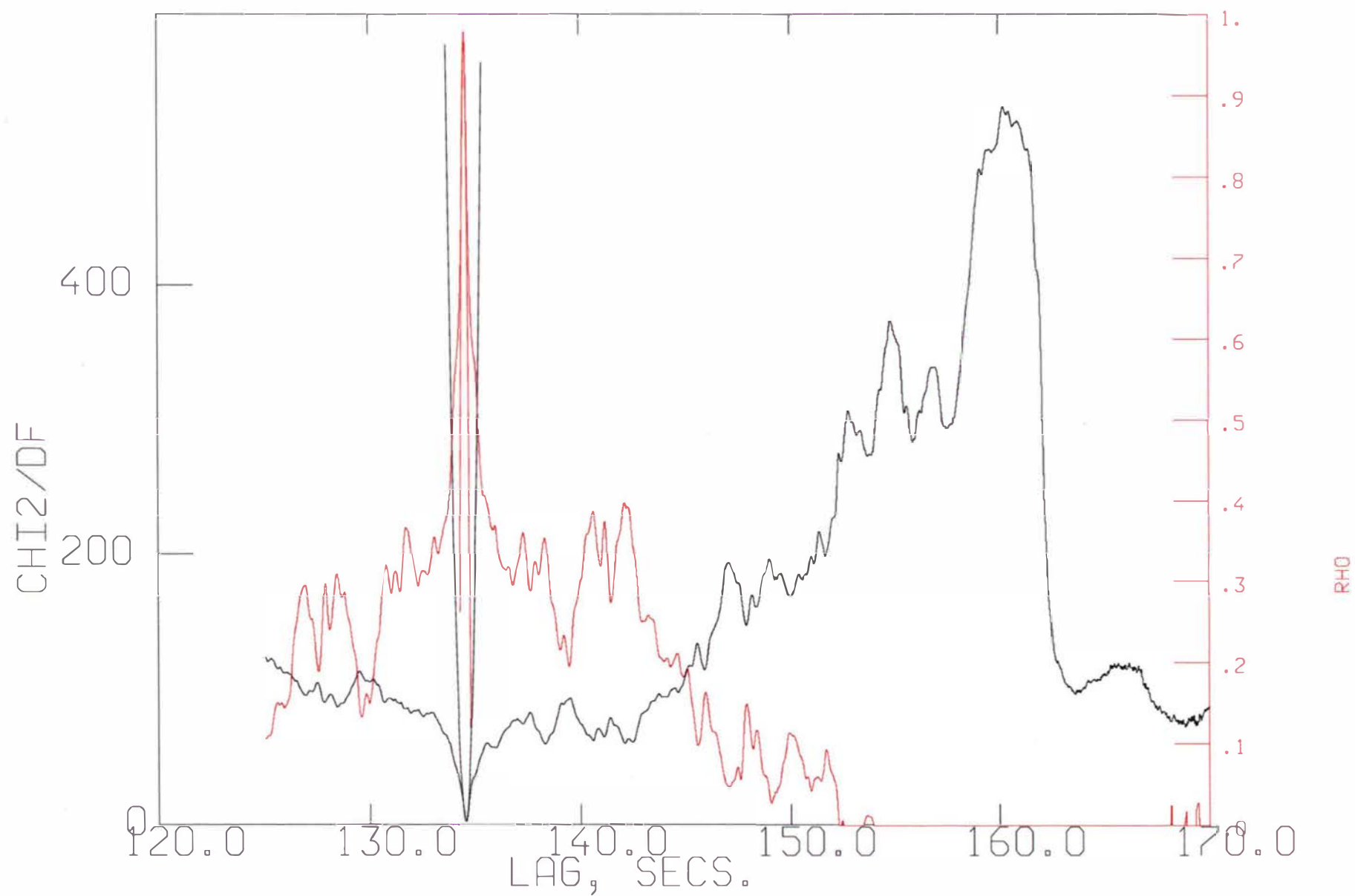
CORRELATION

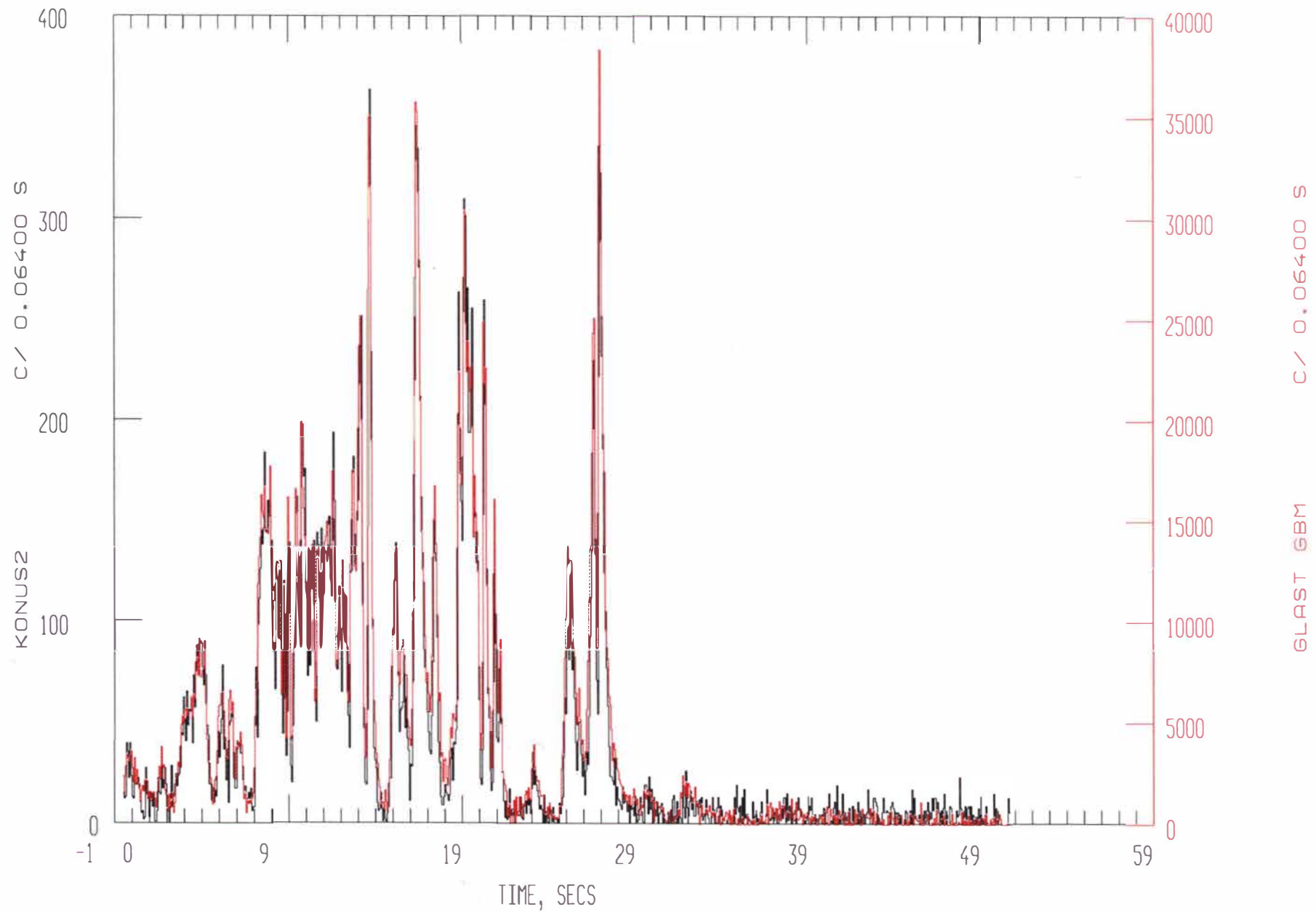
02/05/13

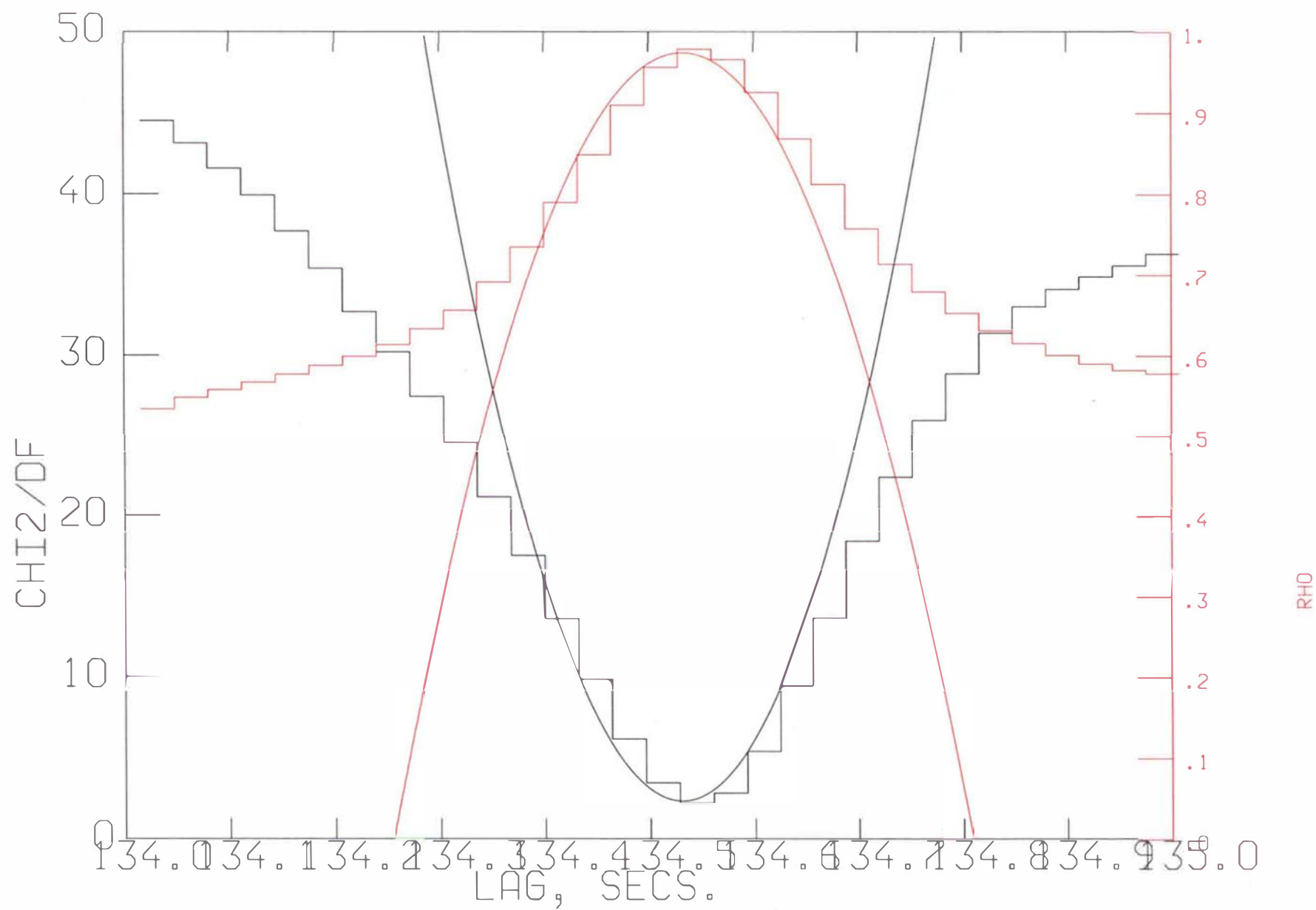
28121.000

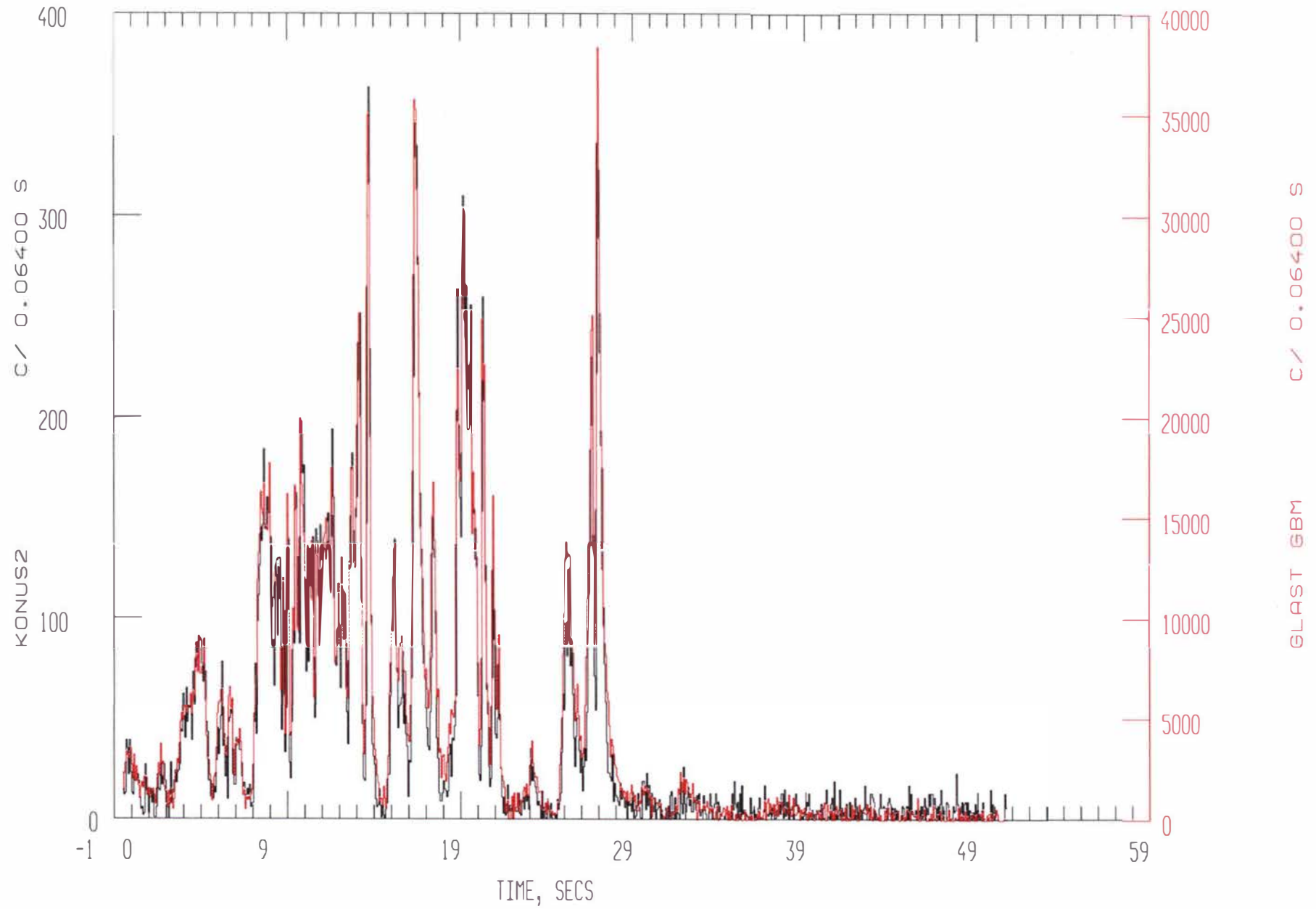
3/ 5/13







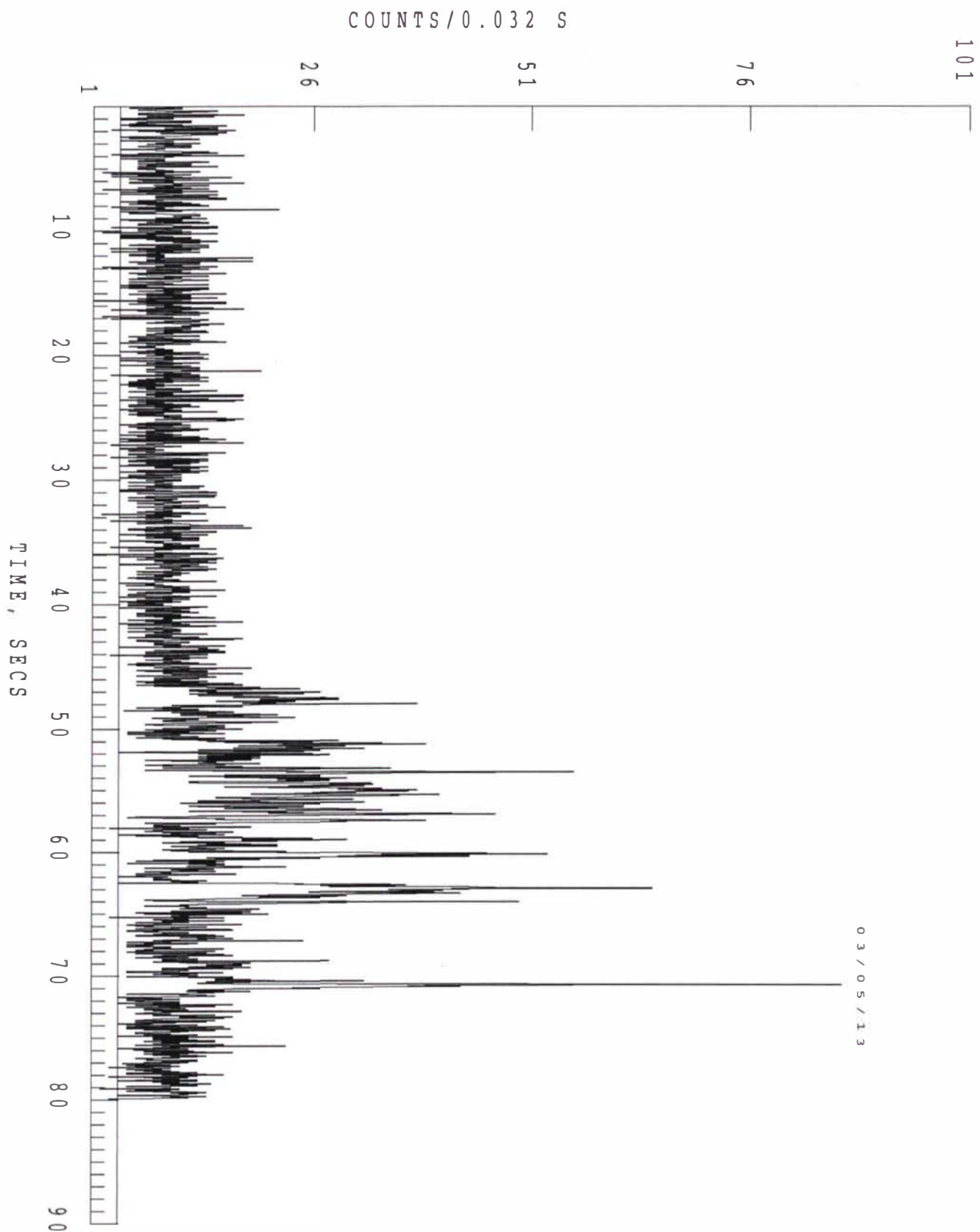


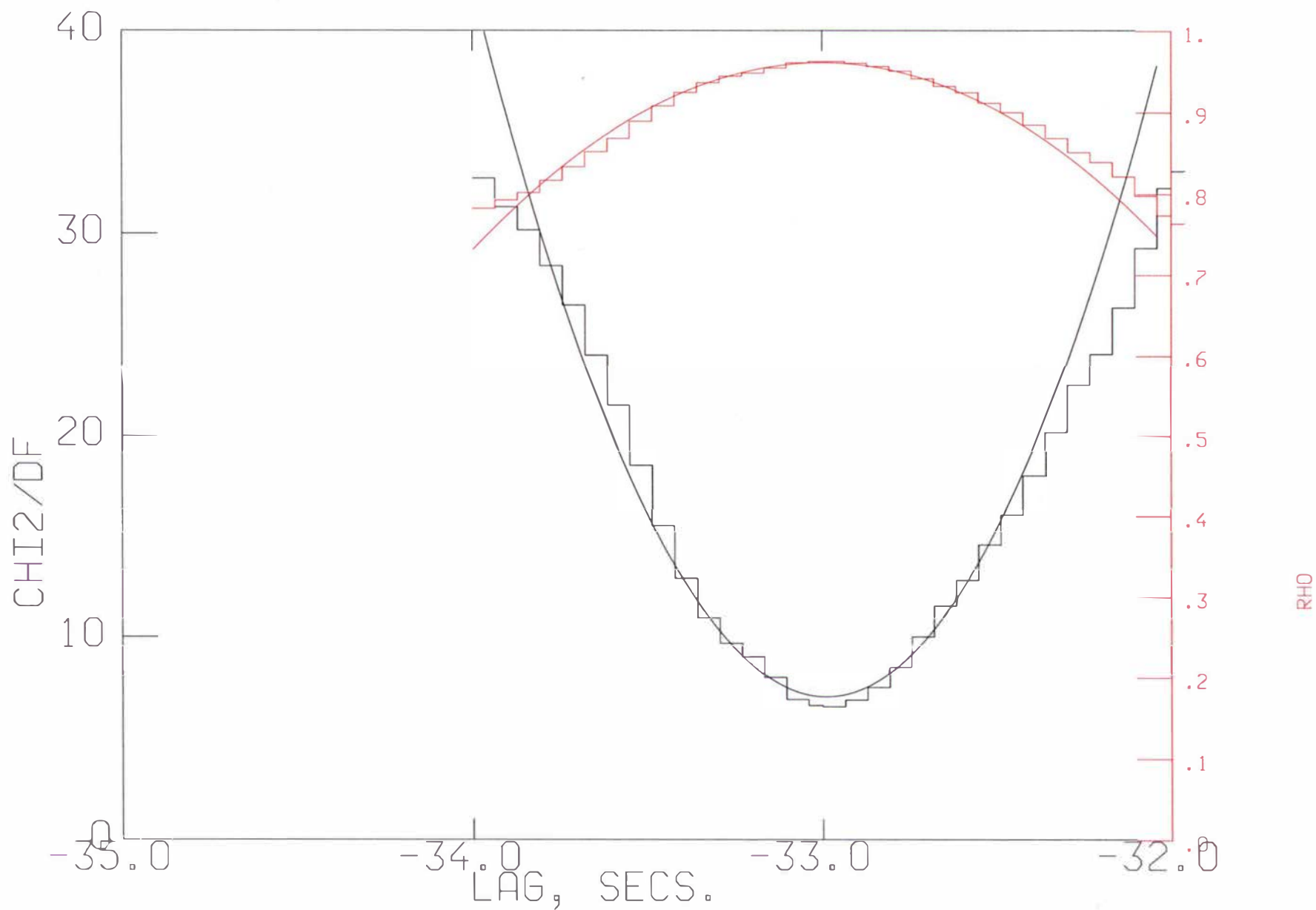


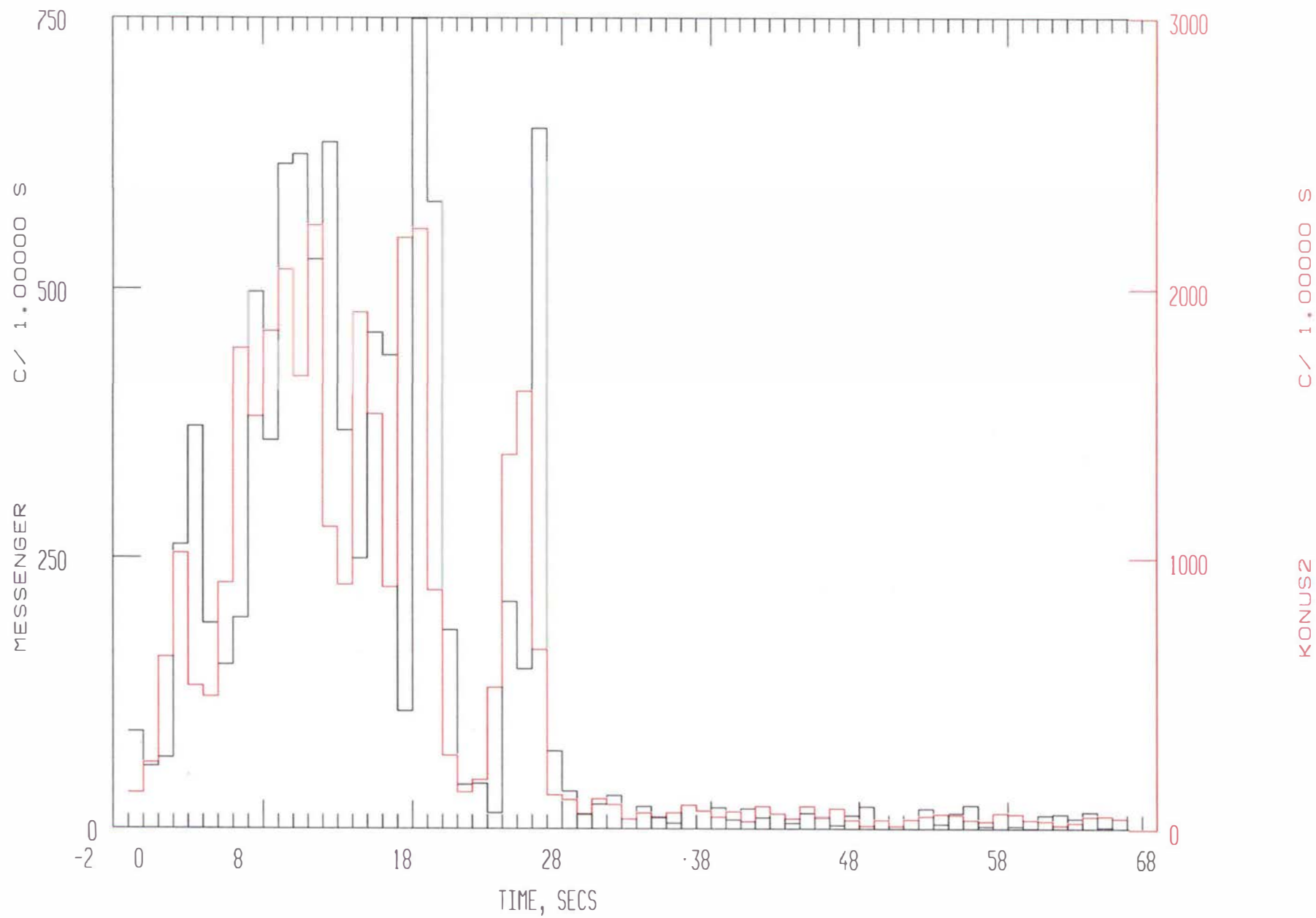
HESSI

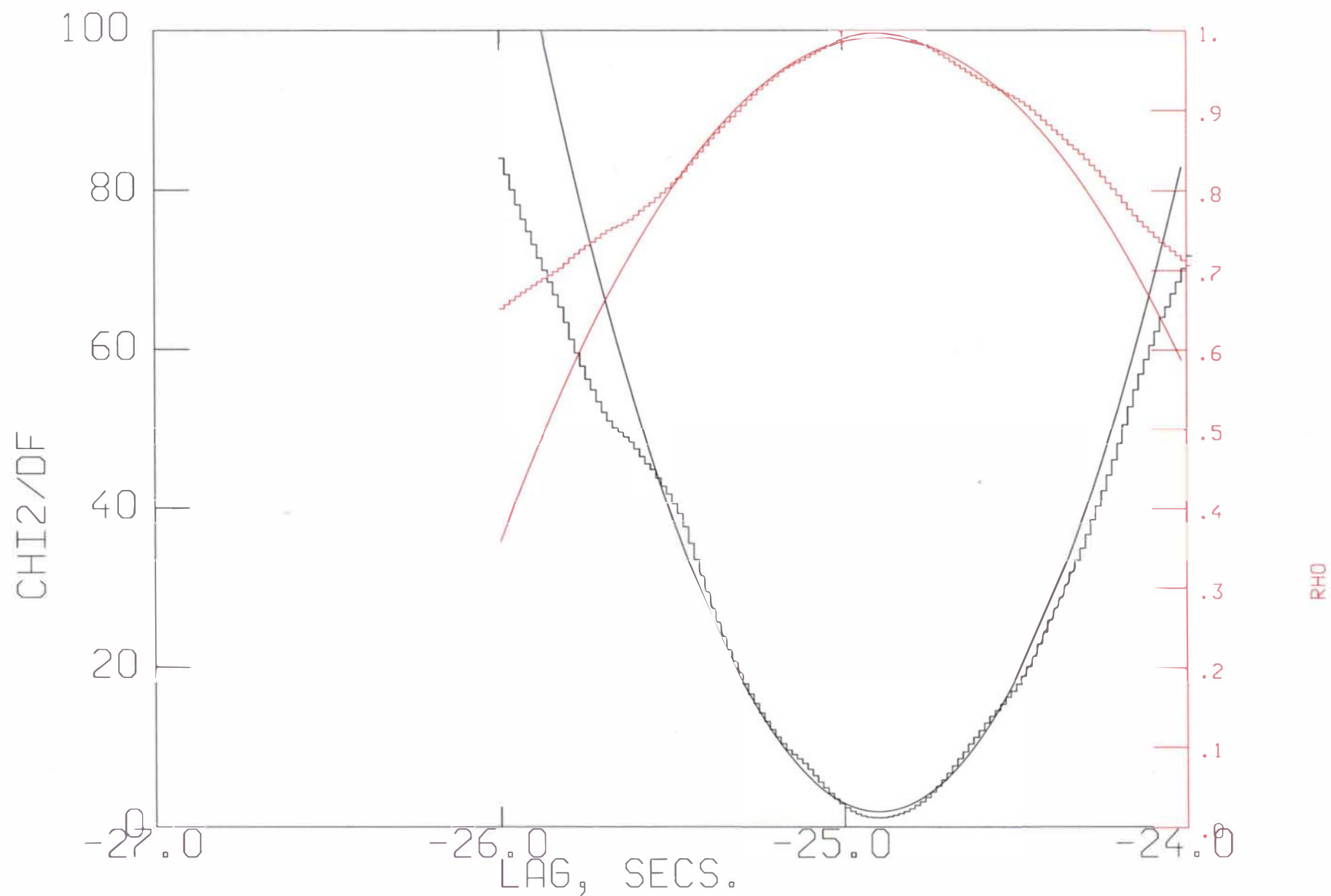
02/05/13 28232.000 (konus_20130502_28272)

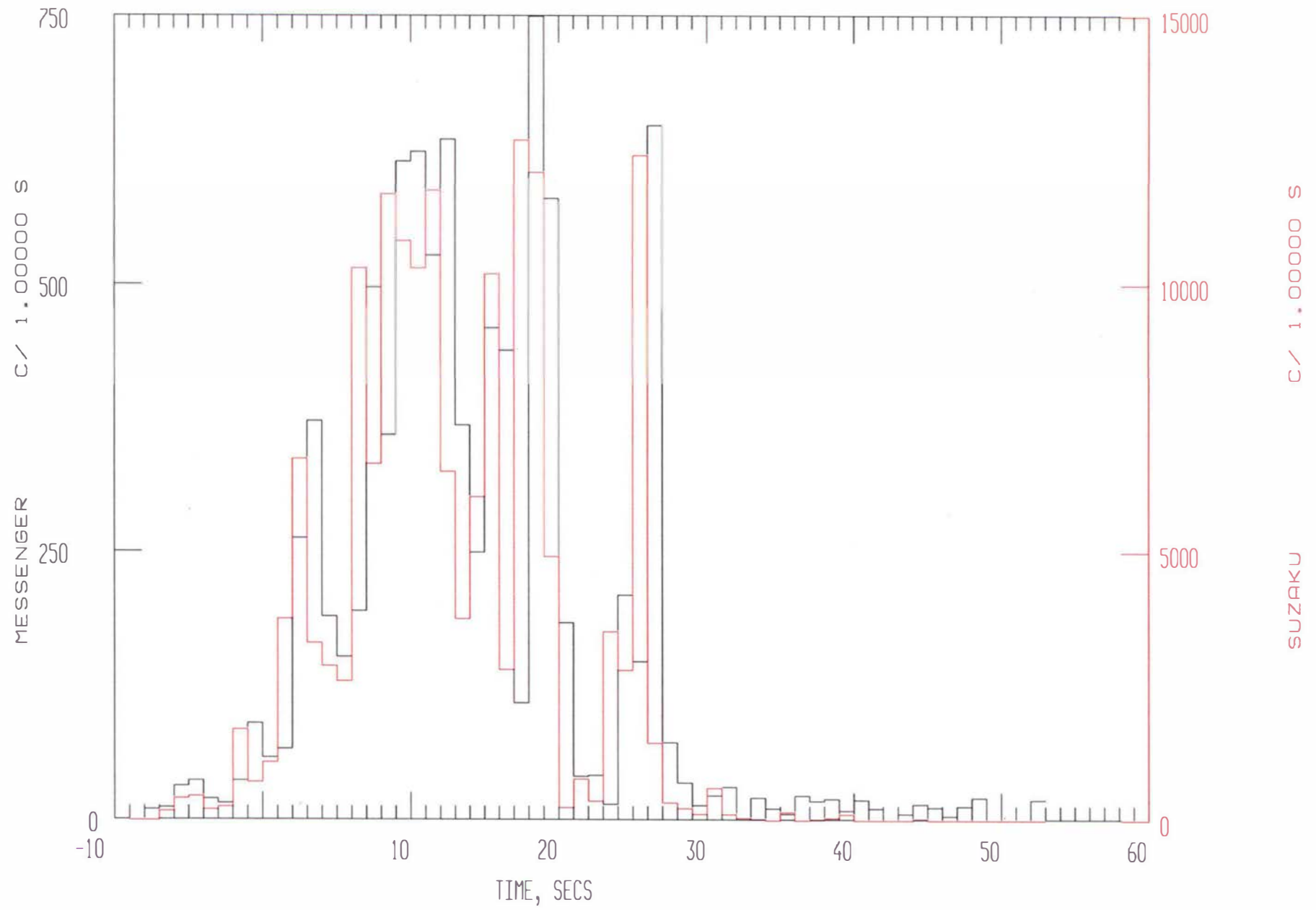
50 - 200 keV

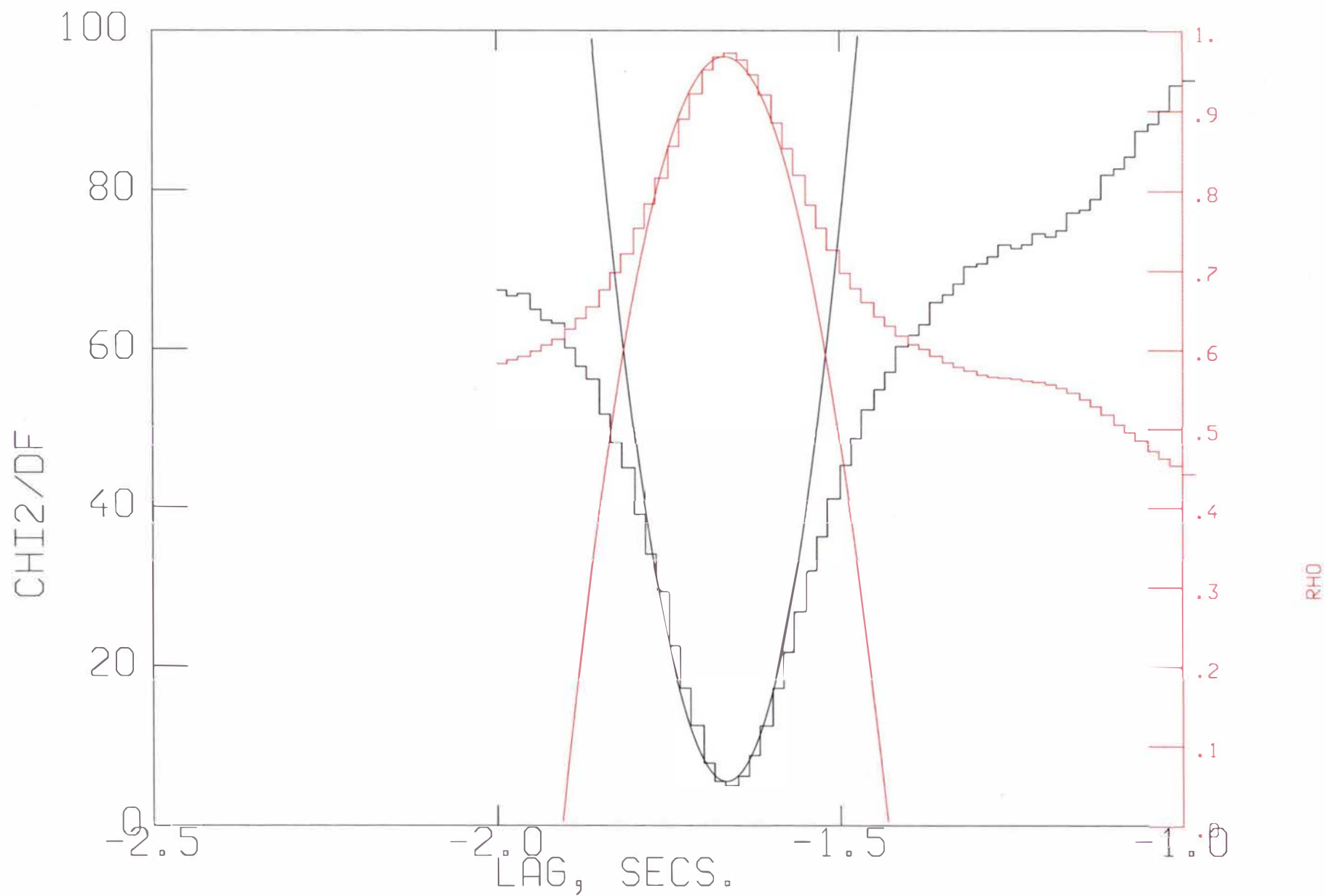


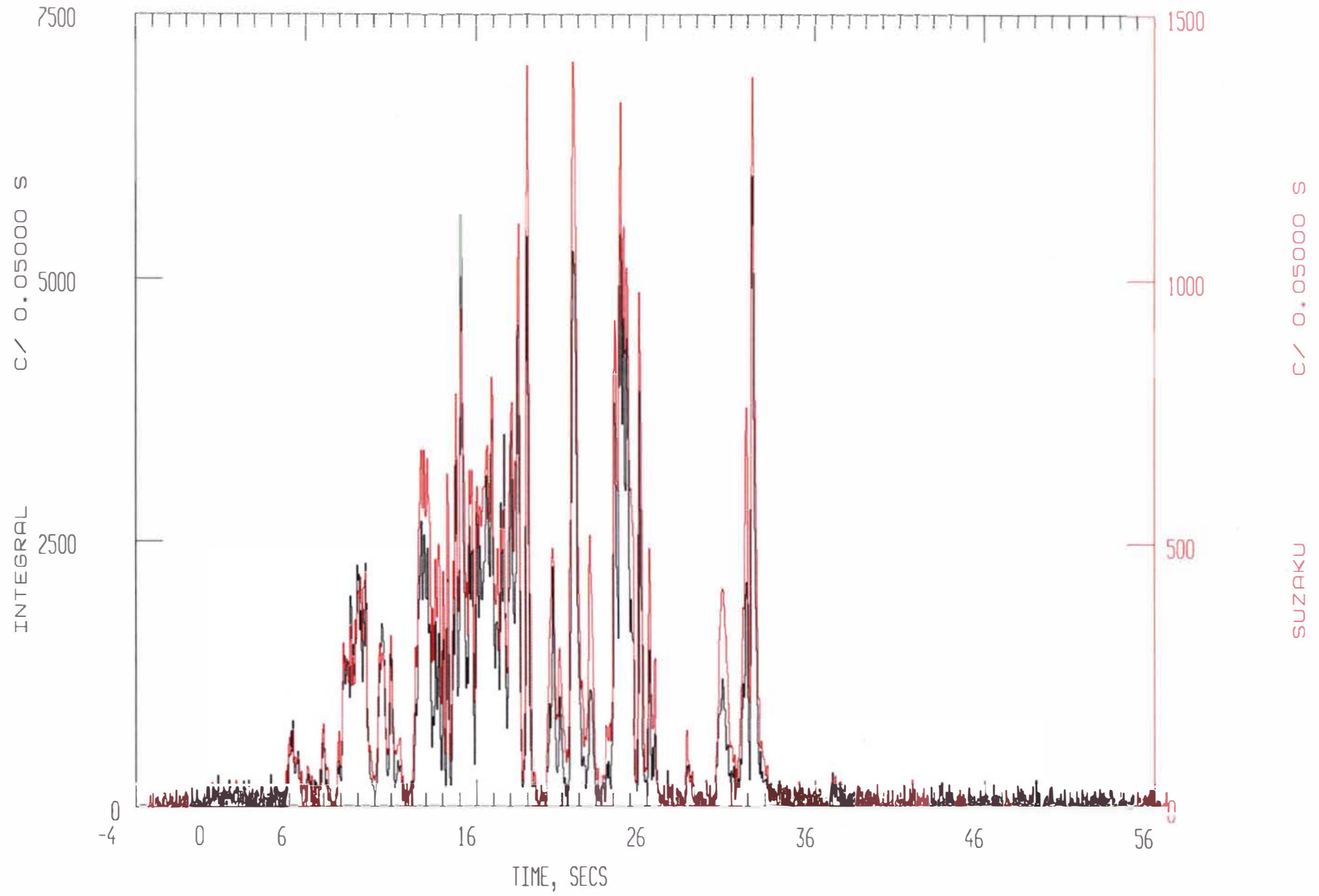












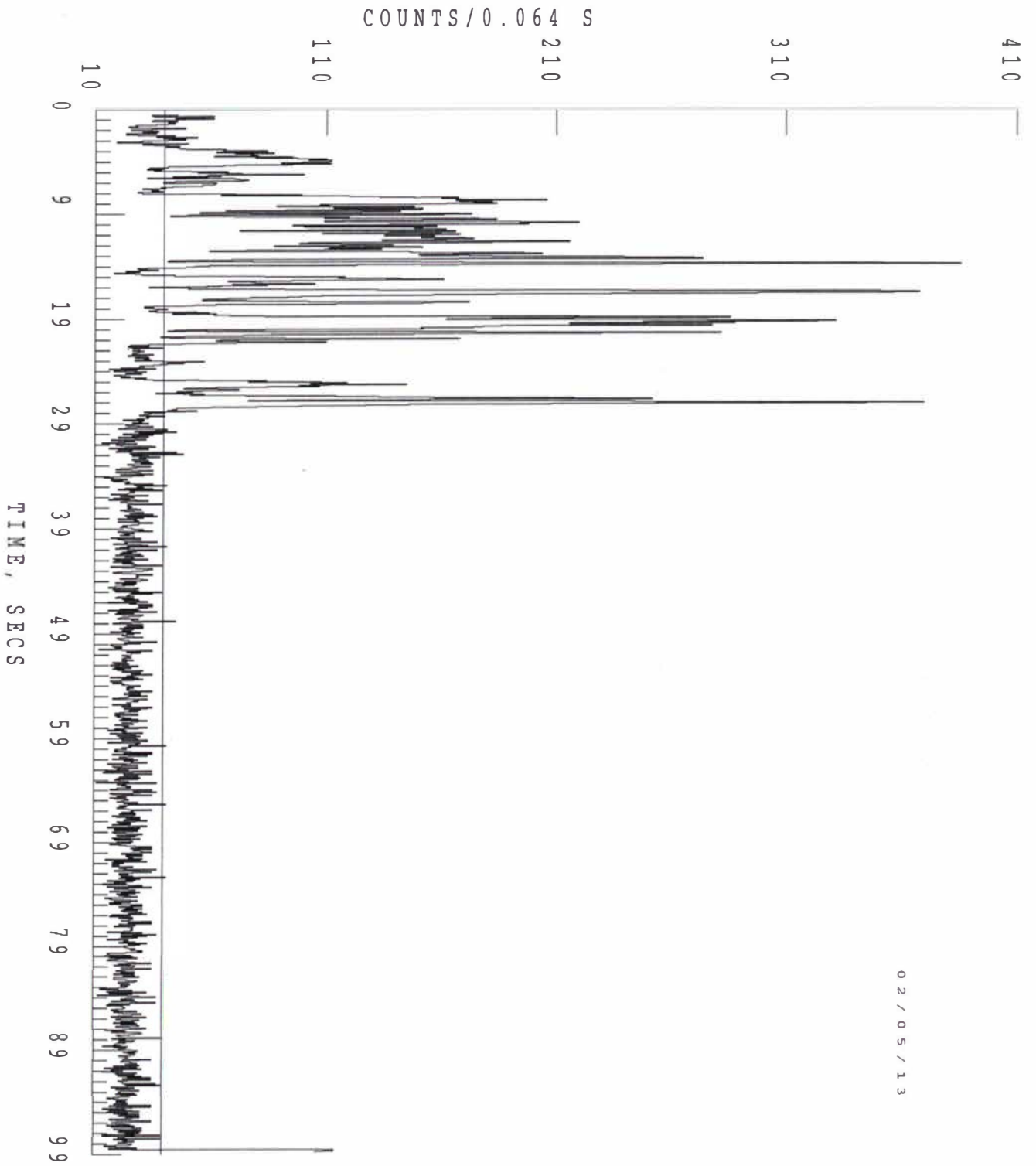
KONUS2

02/05/13

28272.763

A B

50 - 200 keV



02/05/13

2

KONUS HRES 20130502 28272

TRIGGER TIME: 02/05/13 DOY 122 Julian 2456415.82722 UT = 07.853 07:51:12 (28272.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

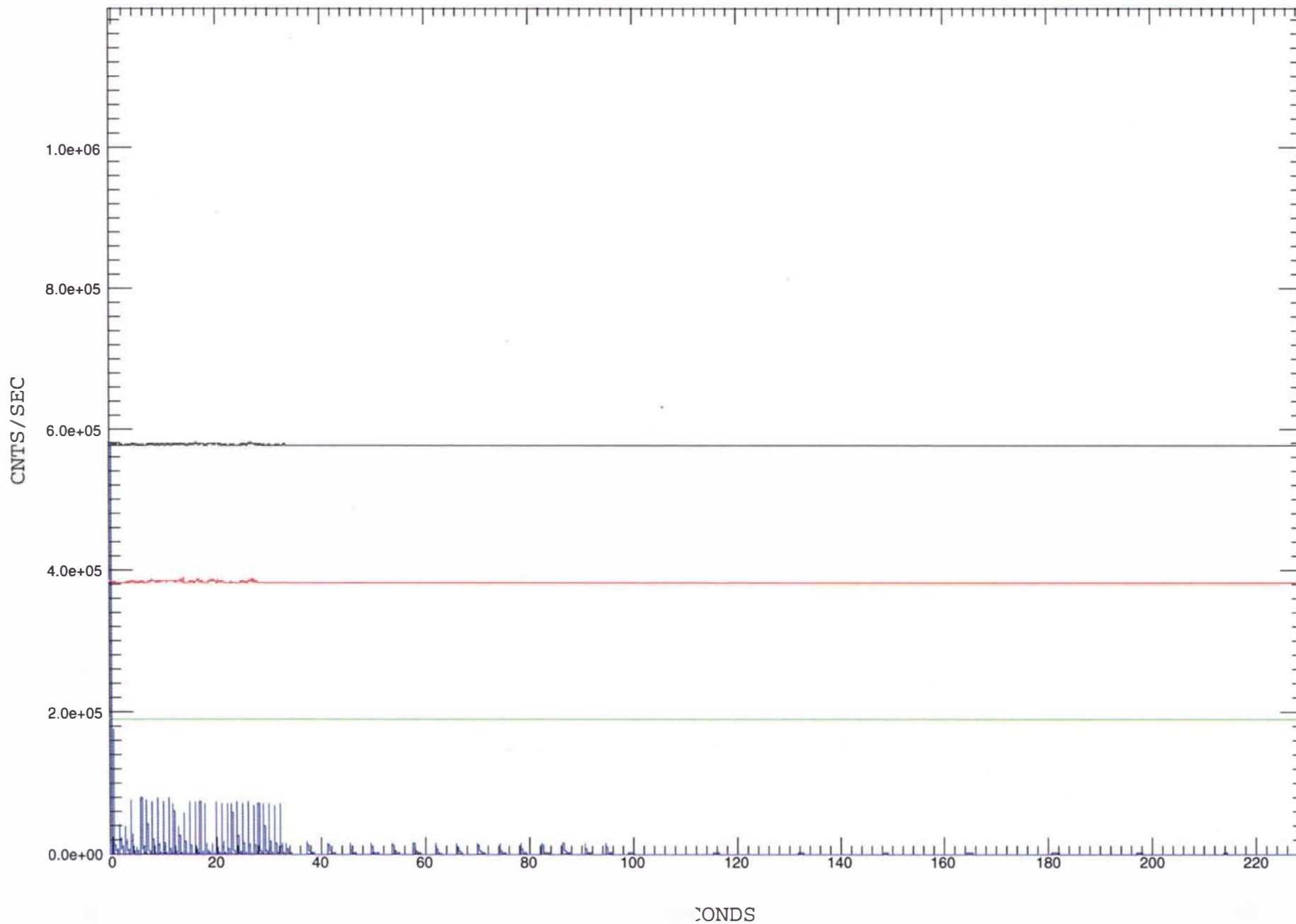
Chan 4 : [> 10 MeV]

Channel 1 + 578100

Channel 2 + 385400

Channel 3 + 192700

Channel 4 + 0



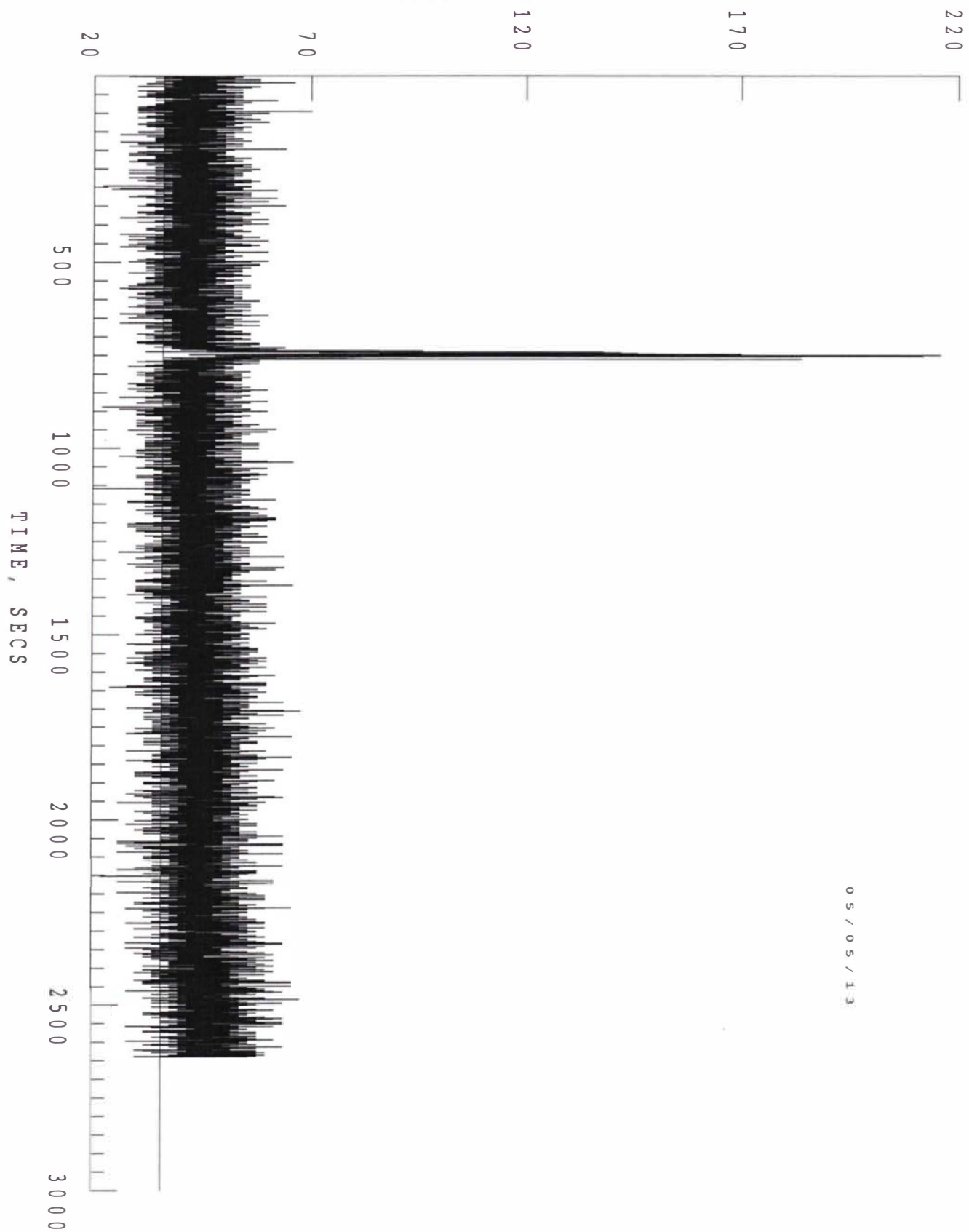
MS01

02/05/13

26928.020

50 - 3000 keV

COUNTS/0.250 S

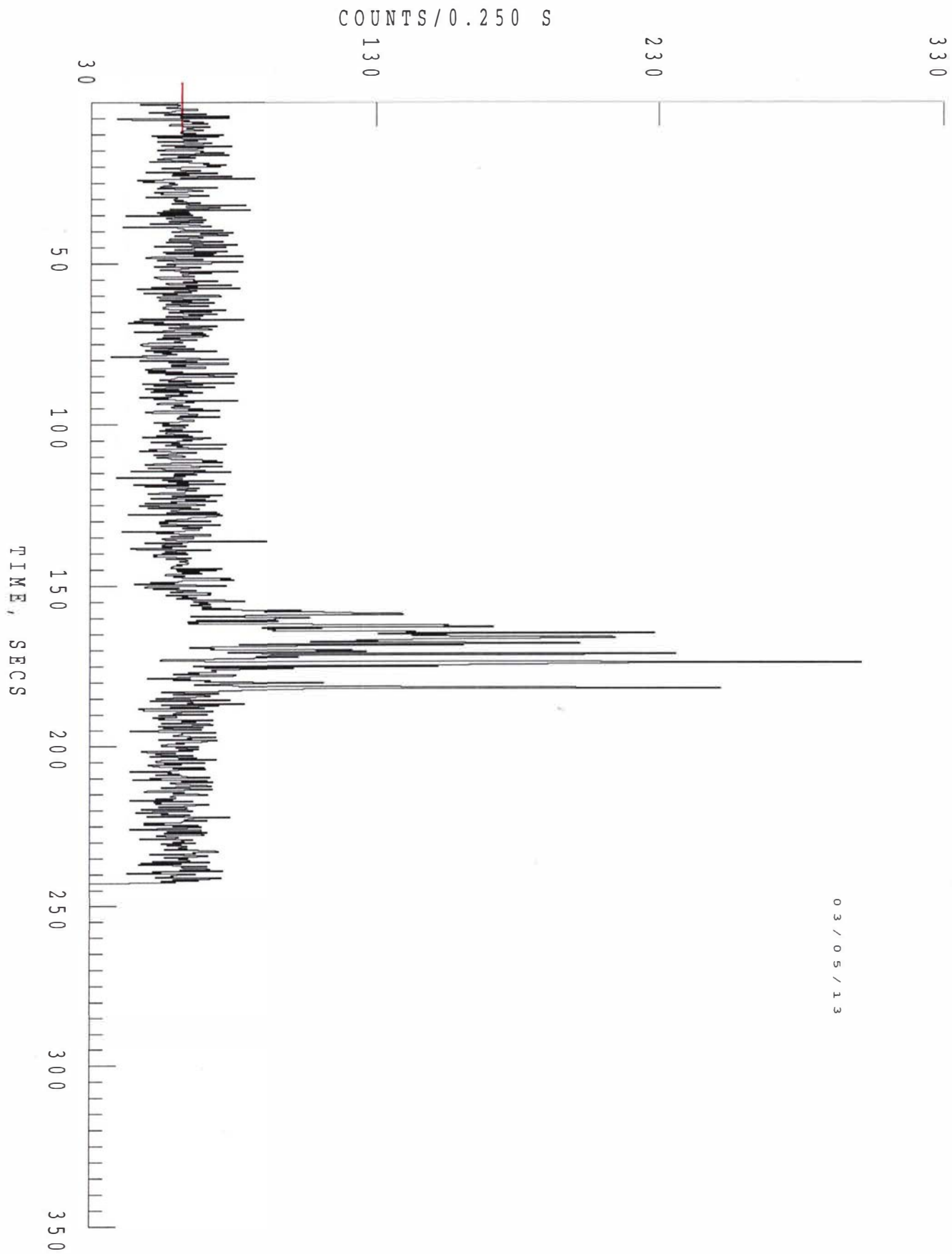


B

HESSI

02/05/13 28121.000 (GLAST_20130502_28271)

25- 150 keV



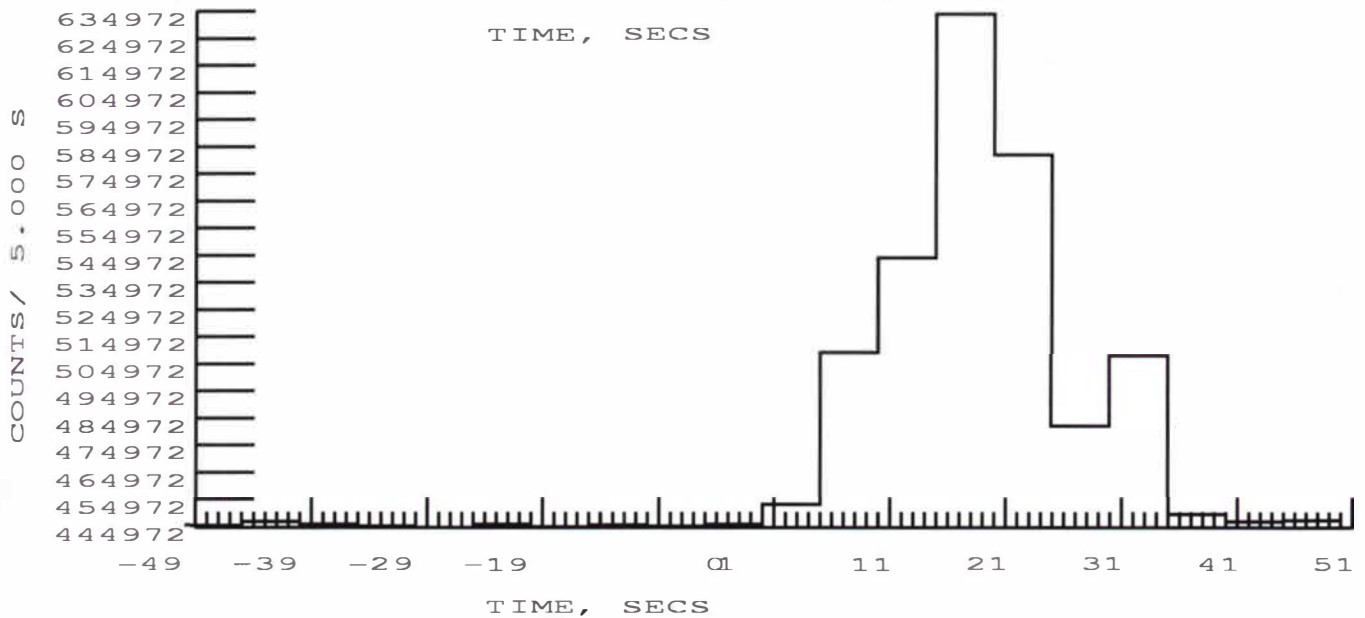
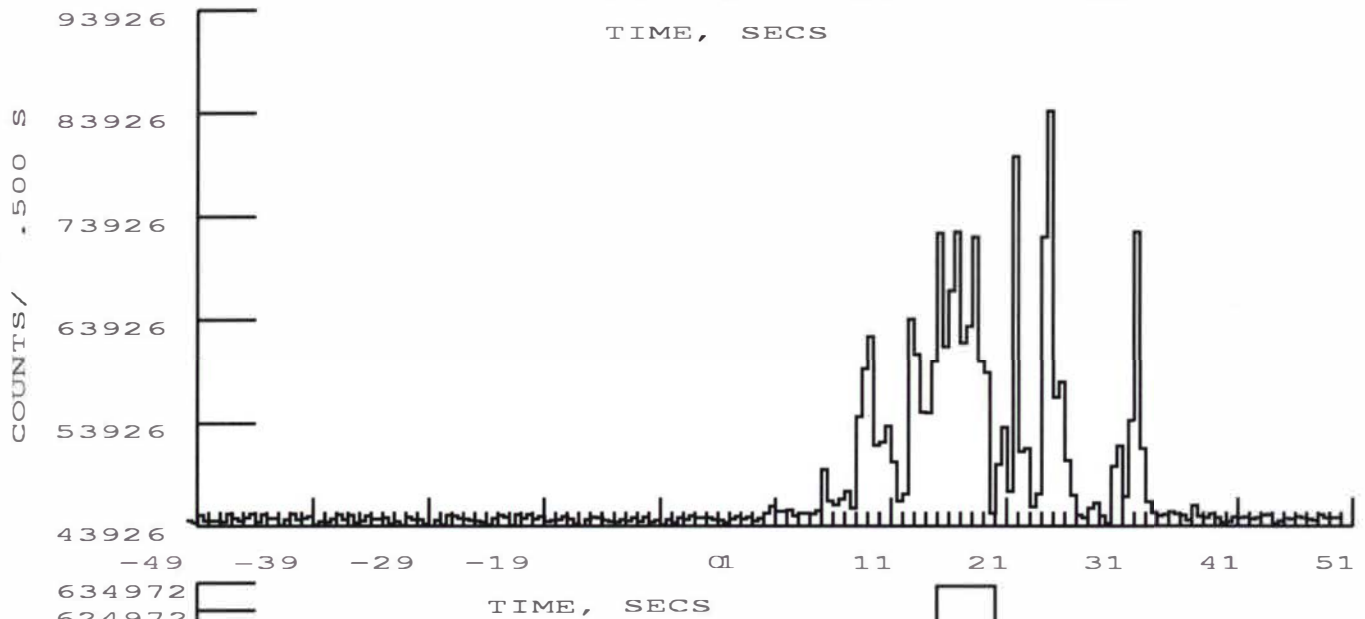
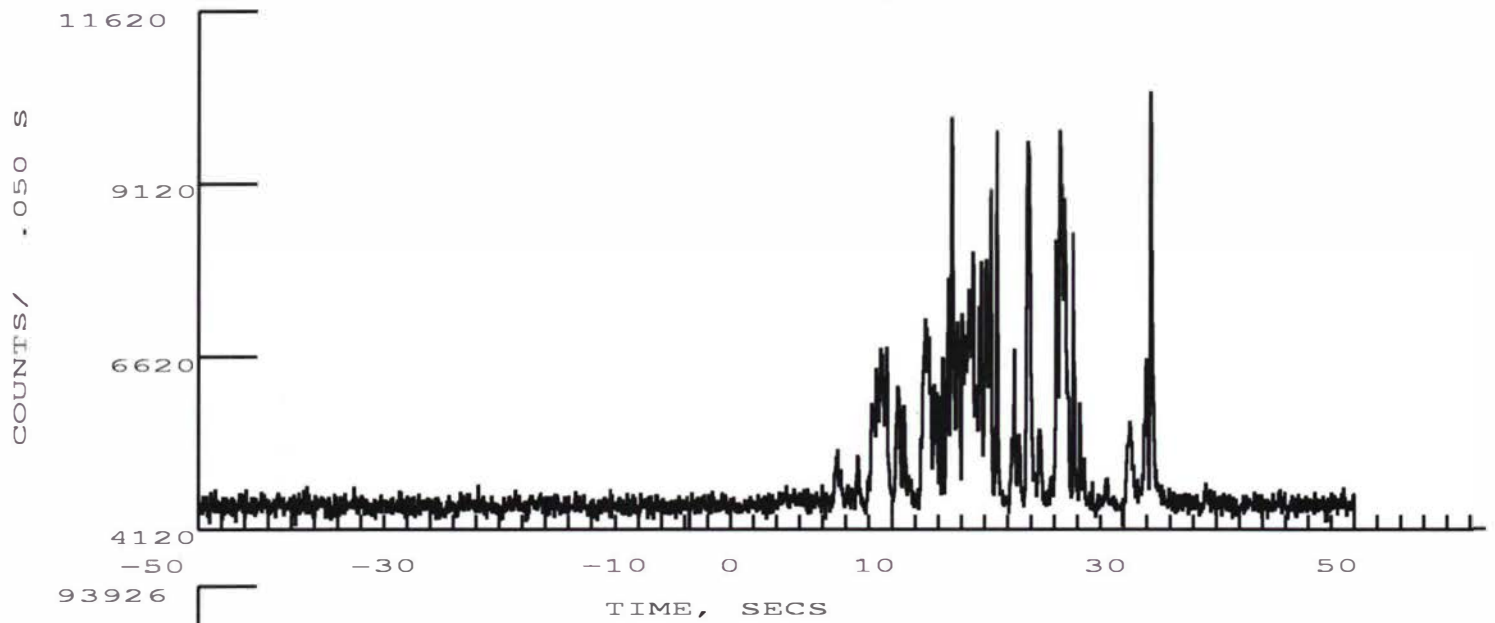
INTEGRAL

02/05/13

28270.000

07:51:10.0

09/10/15



Subject: [Ipn] BAT lightcurve for trigger at 130502_0751

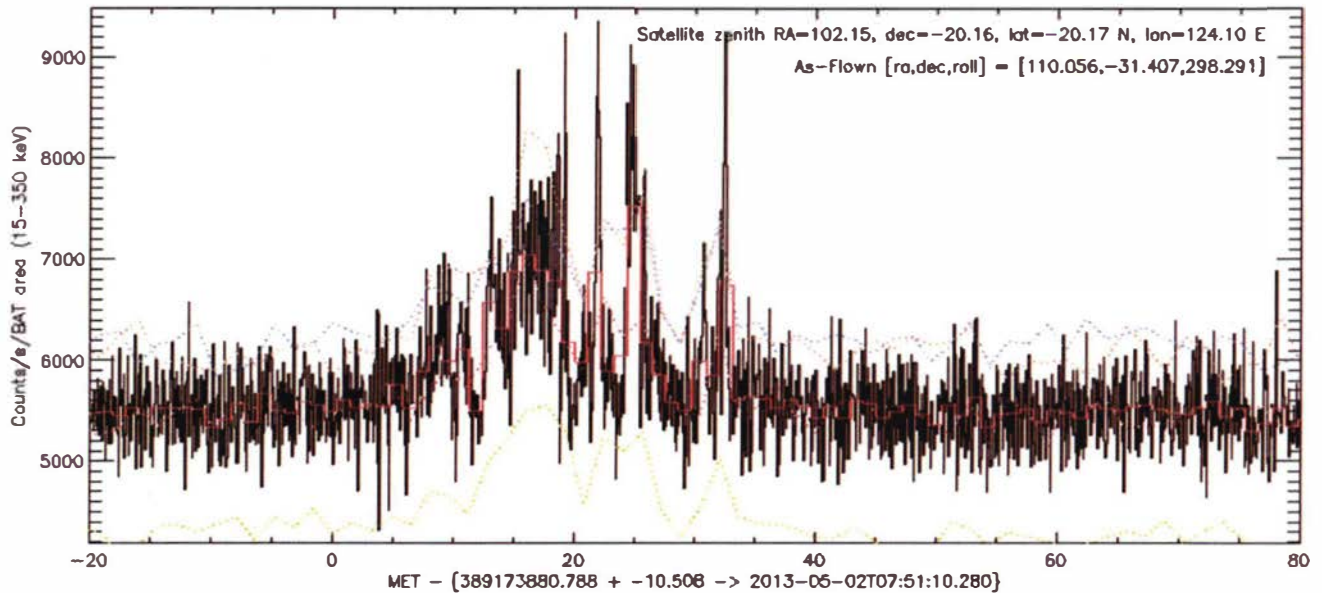
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/2/2013 4:51 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130502_0751.png



```
% /usr/local/bin/swinfo -o 389173880.788
Time(MET + UTCF -> UT): 389173880.788 + -10.508 -> 2013-05-02T07:51:10.280
YYMMDD_SOD: 130502_28270.280 DOY=122
Swift Zenith(RA,dec): 102.15, -20.16
Swift Location(lon,lat,alt): 124.10 E, -20.17 N, 579 km
Obs Sequence Number: 00032036060
Obs Target Name: RX J0720.4-3125
Obs Date and Times: 2013-05-02 07:33:51 - 08:03:48
Obs Pointing(ra,dec,roll): 110.056, -31.407, 298.29
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130502_0751_bat64ms_ipn	87.1 KB
/tmp/130502_0751.png	18.5 KB

03/05/13

MESSENGER

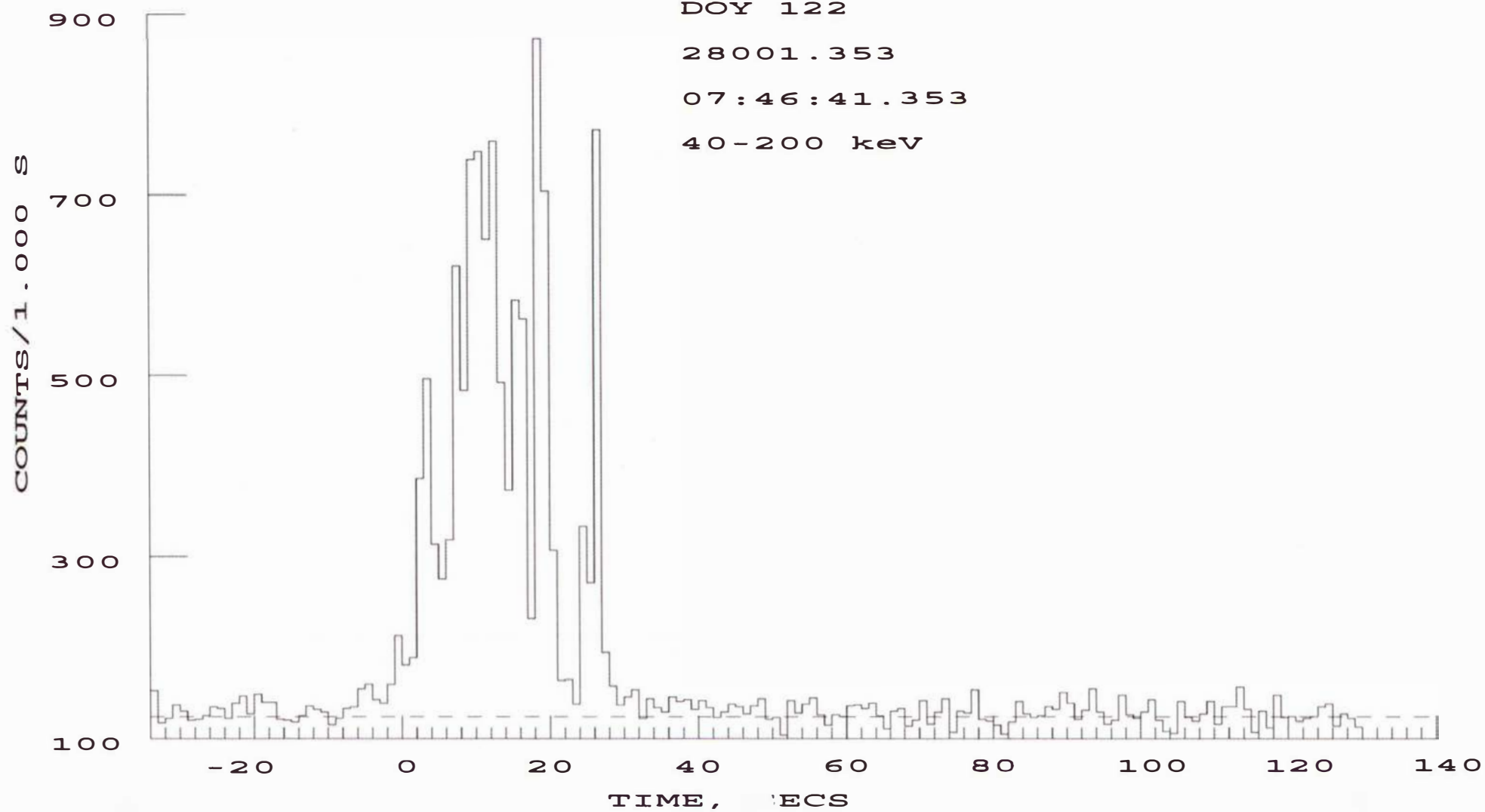
02/05/13

DOY 122

28001.353

07:46:41.353

40-200 keV



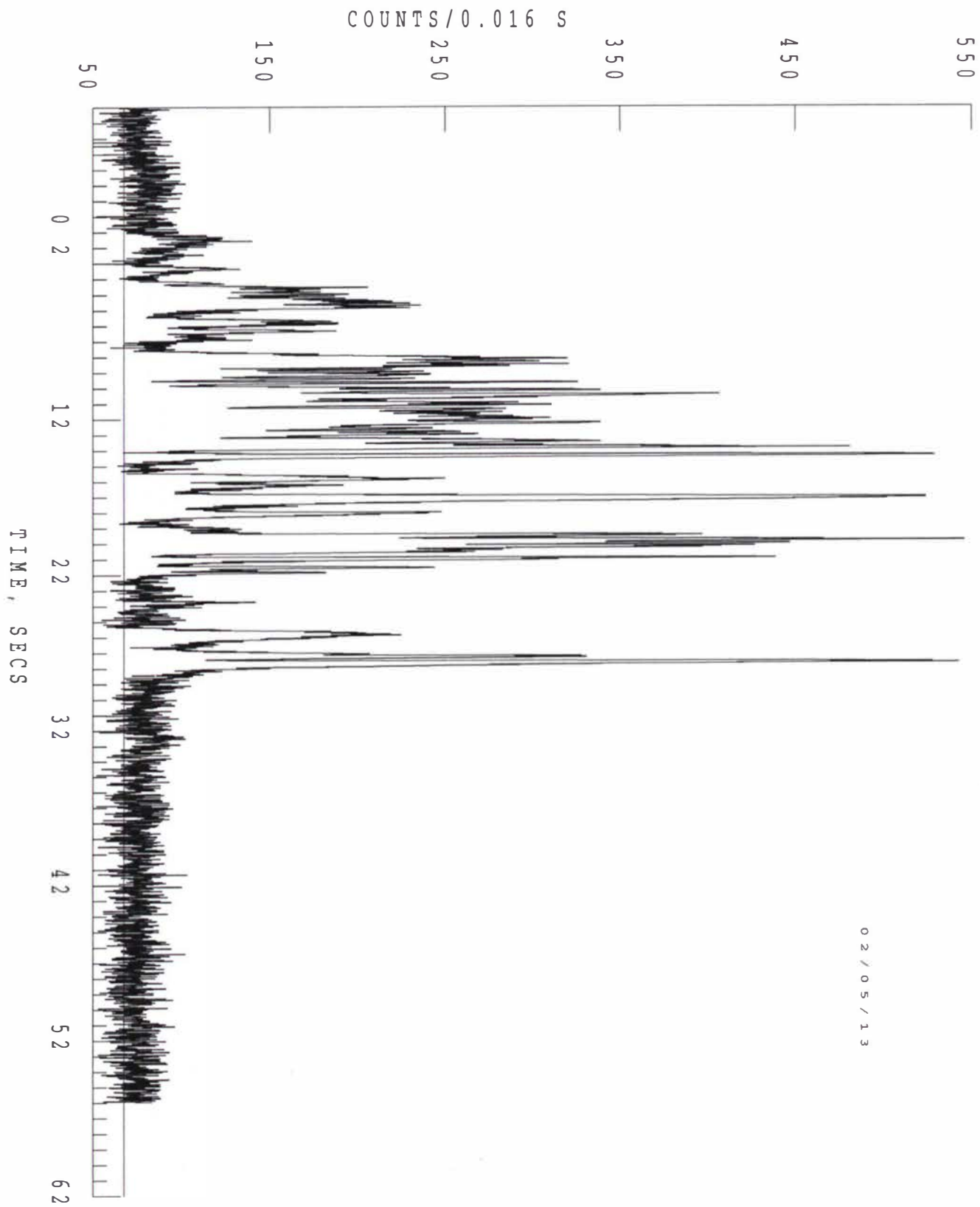
B

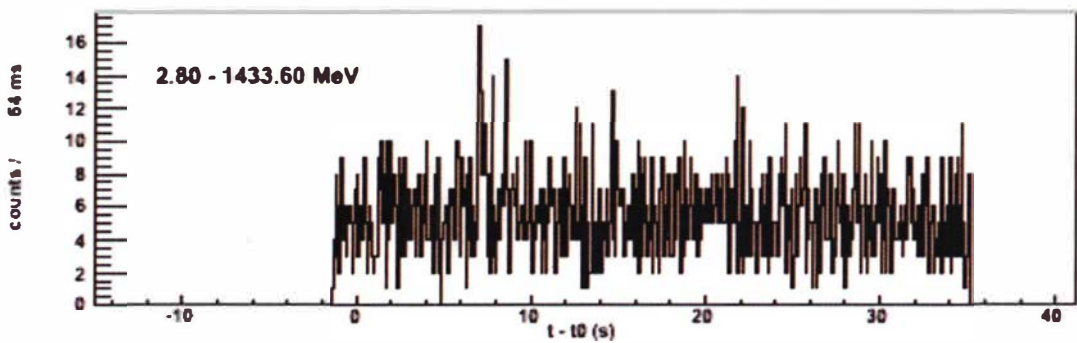
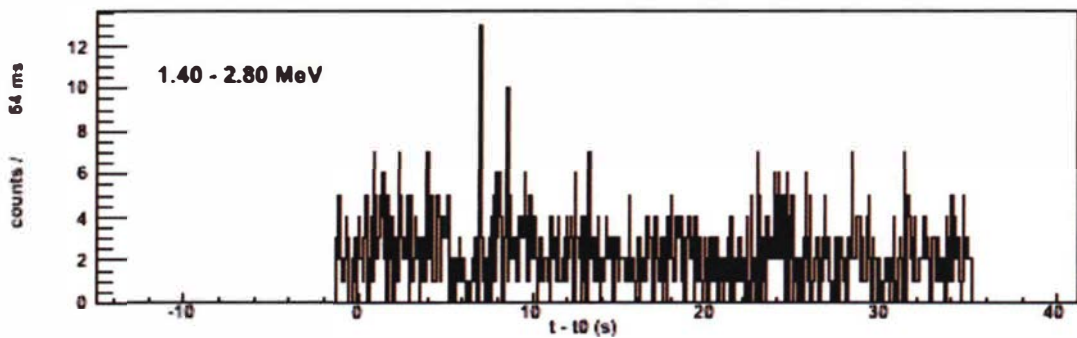
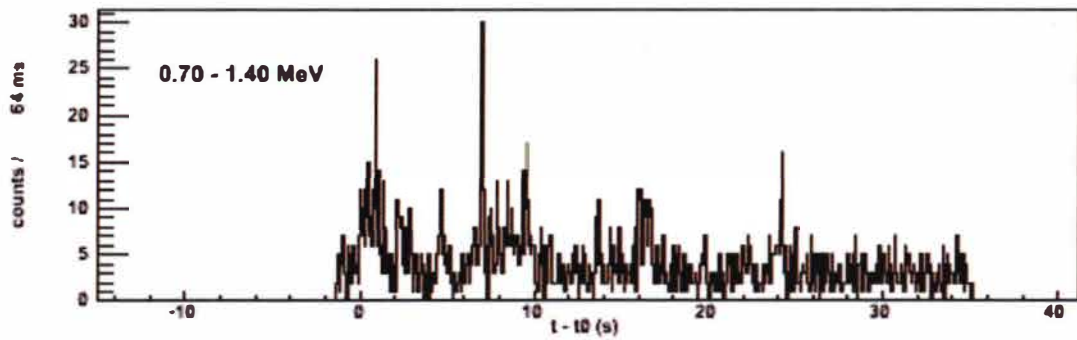
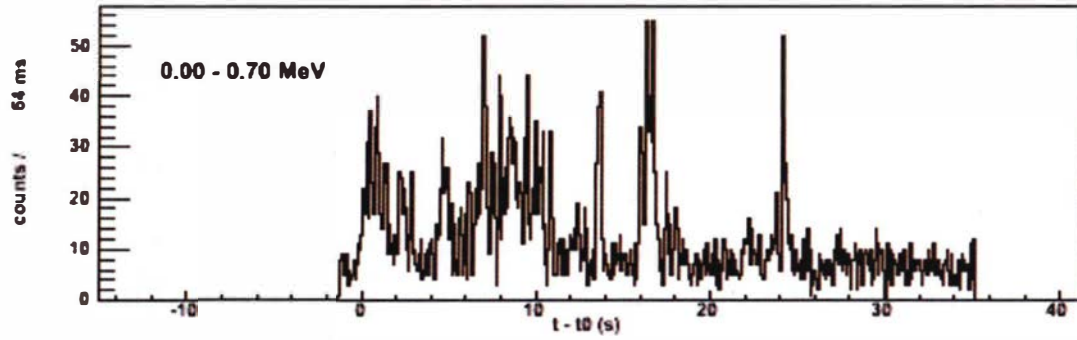
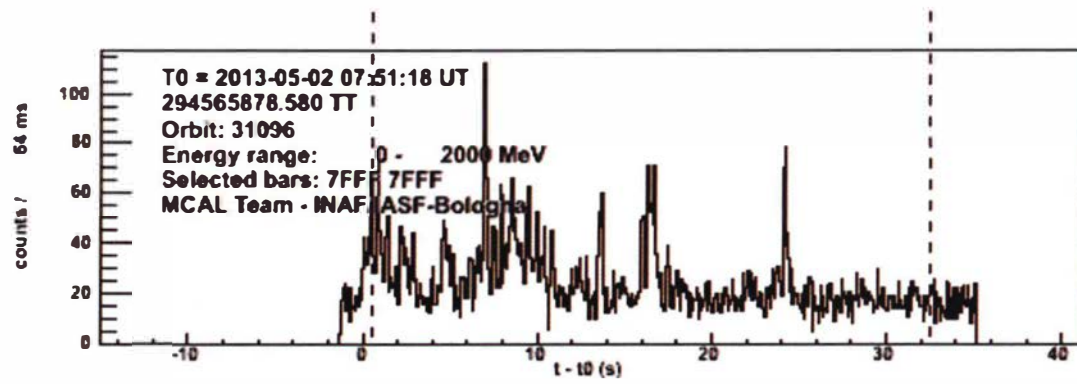
SUZAKU

02/05/13

28275.115

50 - 240 keV





B

GLAST

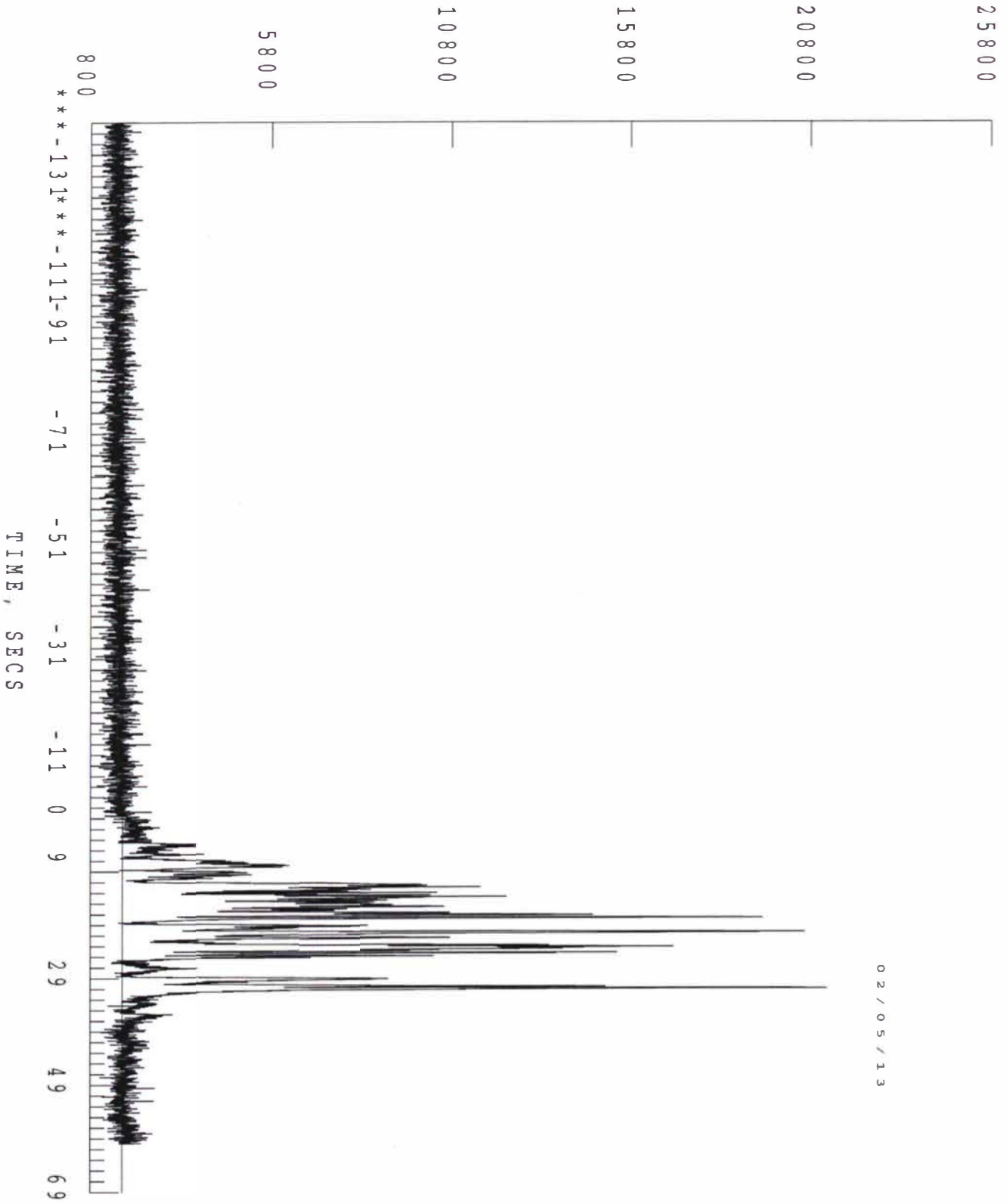
02/05/13

28271.761

26 - 293 keV

130502327

COUNTS/0.032 S



B

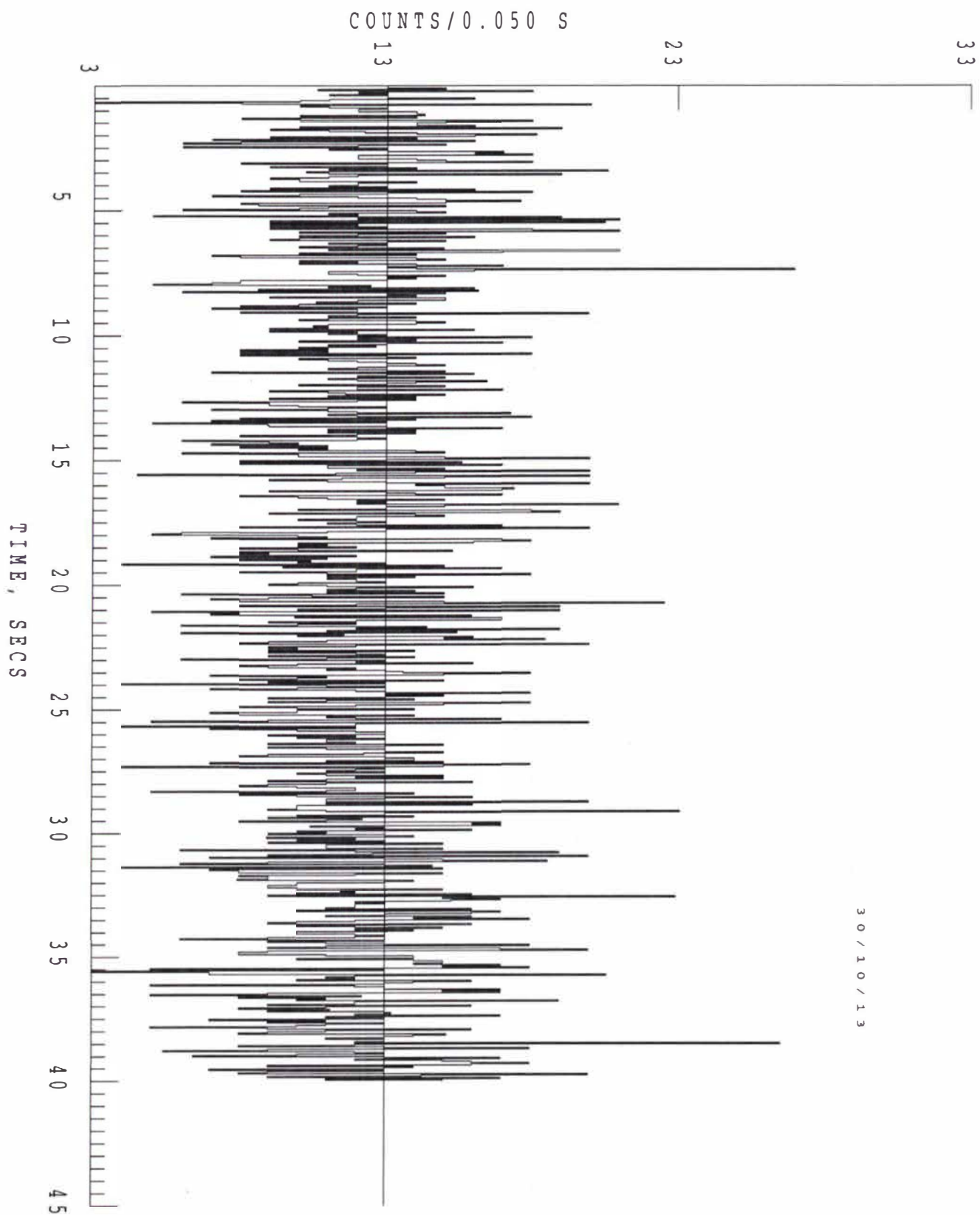
From vxw@capella2.gsfc.nasa.gov Thu May 2 01:49:36 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Thu, 2 May 2013 04:49:31 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/FERMI_GBM_FINAL_POSITION
X-Barracuda-BRTS-Status: 1

TITLE: GCN/FERMI NOTICE
NOTICE_DATE: Thu 02 May 13 08:49:30 UT
NOTICE_TYPE: Fermi-GBM Final Position
RECORD_NUM: 0
TRIGGER_NUM: 389173874
GRB_RA: 74.470d {+04h 57m 53s} (J2000),
74.844d {+04h 59m 23s} (current),
73.073d {+04h 52m 17s} (1950)
GRB_DEC: +70.580d {+70d 34' 48"} (J2000),
+70.600d {+70d 35' 59"} (current),
+70.502d {+70d 30' 08"} (1950)
GRB_ERROR: 1.00 [deg radius, statistical only]
GRB_DATE: 16414 TJD; 122 DOY; 13/05/02
GRB_TIME: 28271.76 SOD {07:51:11.76} UT
GRB_PHI: 230.20 [deg]
GRB_THETA: 47.04 [deg]
E_RANGE: 50.000 - 300.000 [keV]
LOC_ALGORITHM: 414 (Gnd S/W Version number)
SUN_POSTN: 39.68d {+02h 38m 42s} +15.47d {+15d 28' 15"}
SUN_DIST: 59.12 [deg] Sun_angle= -2.3 [hr] (East of Sun)
MOON_POSTN: 311.70d {+20h 46m 47s} -12.47d {-12d 28' 28"}
MOON_DIST: 112.40 [deg]
MOON_ILLUM: 51 [%]
GAL_COORDS: 140.72, 16.82 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 82.42, 47.55 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: Fermi-GBM Final Position.
COMMENTS: This Notice was ground-generated -- not flight-generated.
COMMENTS: NOTE: This GBM event is temporally(1.0<100sec) coincident with

HESSI

01/05/13 28703.000 (SUZAKU_20130501_28723)

25- 150 keV



From vxw@capella2.gsfc.nasa.gov Thu May 2 10:56:51 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Thu, 2 May 2013 13:56:49 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Thu 02 May 13 17:55:47 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 554996, Seg_Num: 0
GRB_RA: 138.578d {+09h 14m 19s} (J2000),
138.748d {+09h 15m 00s} (current),
137.937d {+09h 11m 45s} (1950)
GRB_DEC: -0.143d {-00d 08' 35"} (J2000),
-0.199d {-00d 11' 55"} (current),
+0.065d {+00d 03' 52"} (1950)
GRB_DATE: 16414 TJD; 122 DOY; 13/05/02
GRB_TIME: 64230.64 SOD {17:50:30.64} UT
TRIGGER_INDEX: 10418
GRB_PHI: -171.56 [deg]
GRB_THETA: 43.27 [deg]
DELTA_TIME: 44.00 [sec]
TRIGGER_DUR: 0.064 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 13.07 [sigma]
MAGE_SIGNIF: 7.75 [sigma]
URL: sw00554996000msb.lc
SUN_POSTN: 40.04d {+02h 40m 10s} +15.58d {+15d 34' 60"}
SUN_DIST: 98.44 [deg] Sun_angle= -6.6 [hr] (East of Sun)
MOON_POSTN: 316.82d {+21h 07m 16s} -10.98d {-10d 58' 31"}
MOON_DIST: 168.66 [deg]
MOON_ILLUM: 47 [%]
GAL_COORDS: 231.23, 31.23 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 141.06, -15.39 [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 = 12.77,-13.50 [deg]

3s

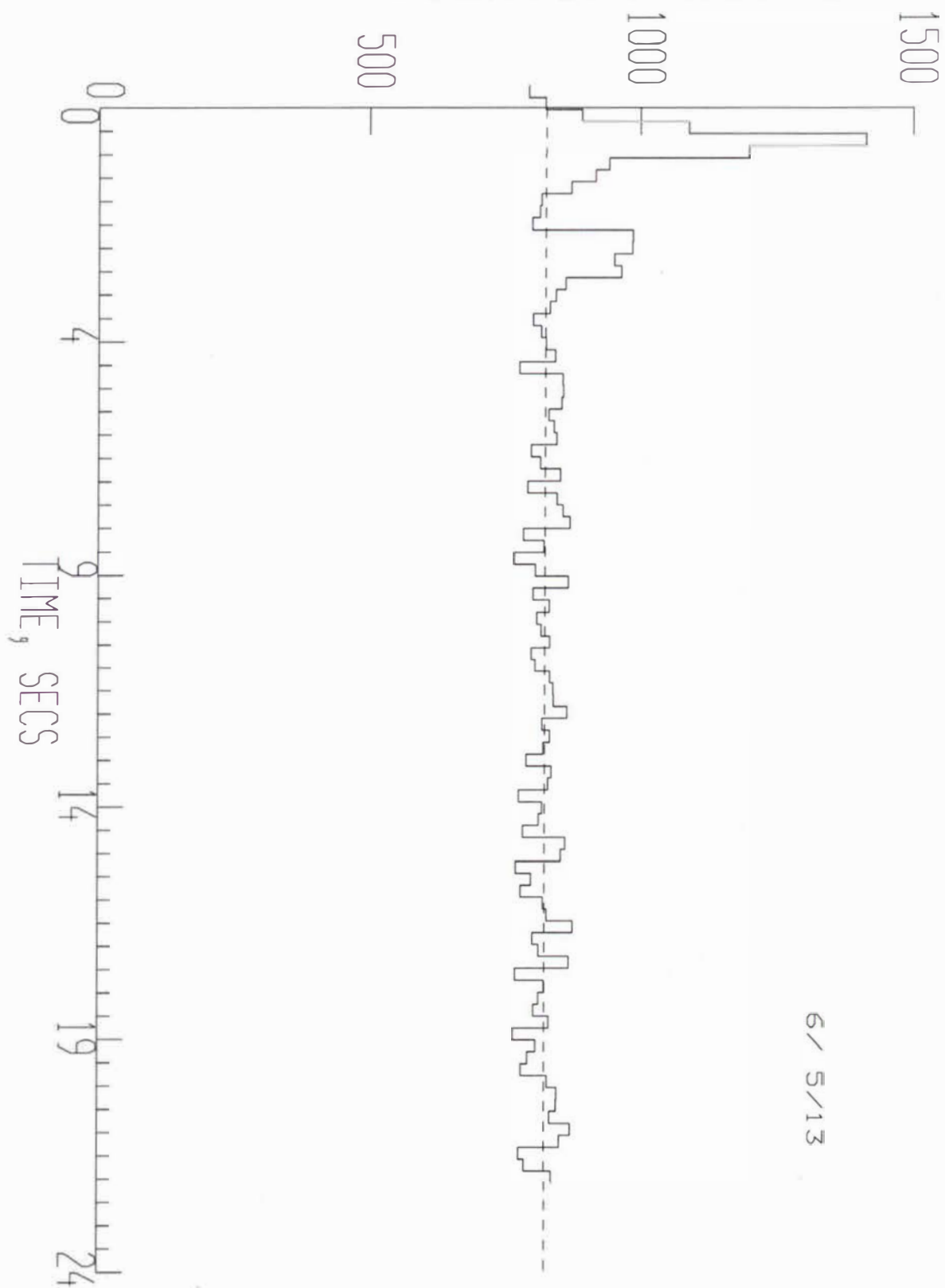
$3.8 \times 10^{-7} \text{ erg cm}^{-2}$

2.9 ph/s/cm^2

C

SWIFT 02/05/13 64230.643
25- 100 keV

COUNTS/0.256 S



6 / 5 / 13

Subject: [lpn] BAT lightcurve for trigger at 130502_1750

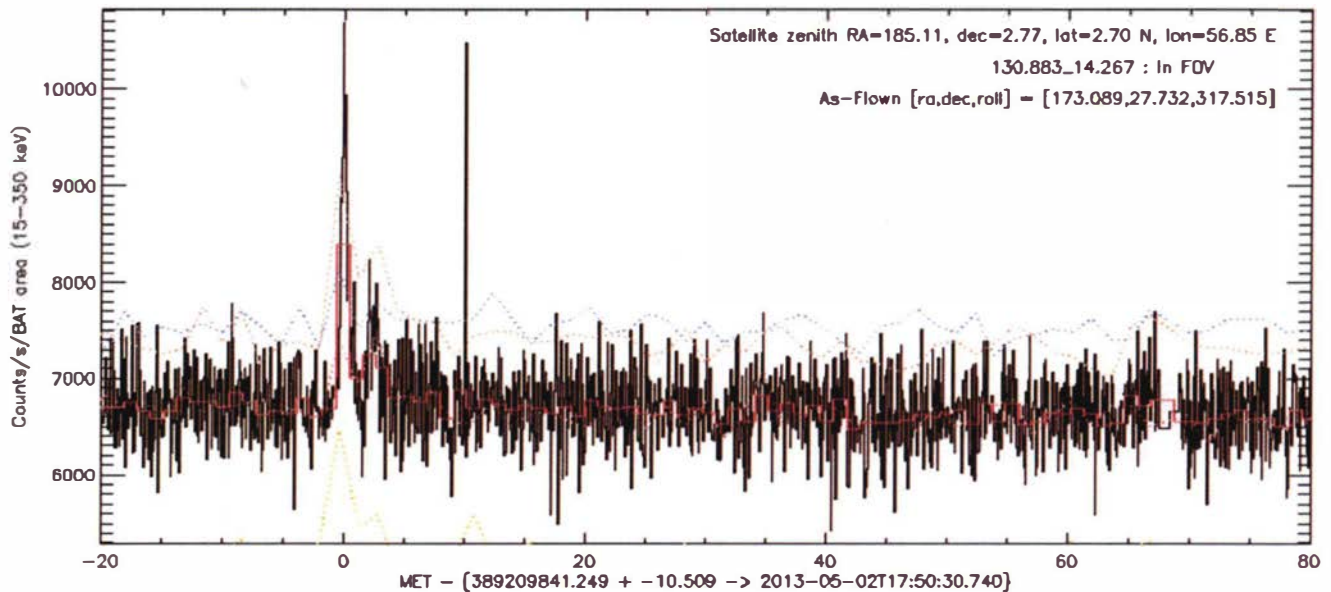
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/2/2013 2:28 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130502_1750.png



```
% /usr/local/bin/swinfo -o 389209841.249 -s 130.883_14.267
Time(MET + UTCF -> UT): 389209841.249 + -10.509 -> 2013-05-02T17:50:30.740
YYMMDD_SOD: 130502_64230.740 DOY=122
Swift Zenith(RA,dec): 185.11, 2.77
Swift Location(lon,lat,alt): 56.85 E, 2.70 N, 567 km
Obs Sequence Number: 00554620028
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-02 17:36:51 - 17:50:37
Obs Pointing(ra,dec,roll): 173.089, 27.732, 317.51
130.883_14.267_imageloc (boresight_dist, angle): (41, -148)
130.883_14.267_exposure (cm^2 cos adjusted): 2019
130.883_14.267_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

lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130502_1750.png	16.7 KB
/tmp/130502_1750_bat64ms_ipn	42.6 KB

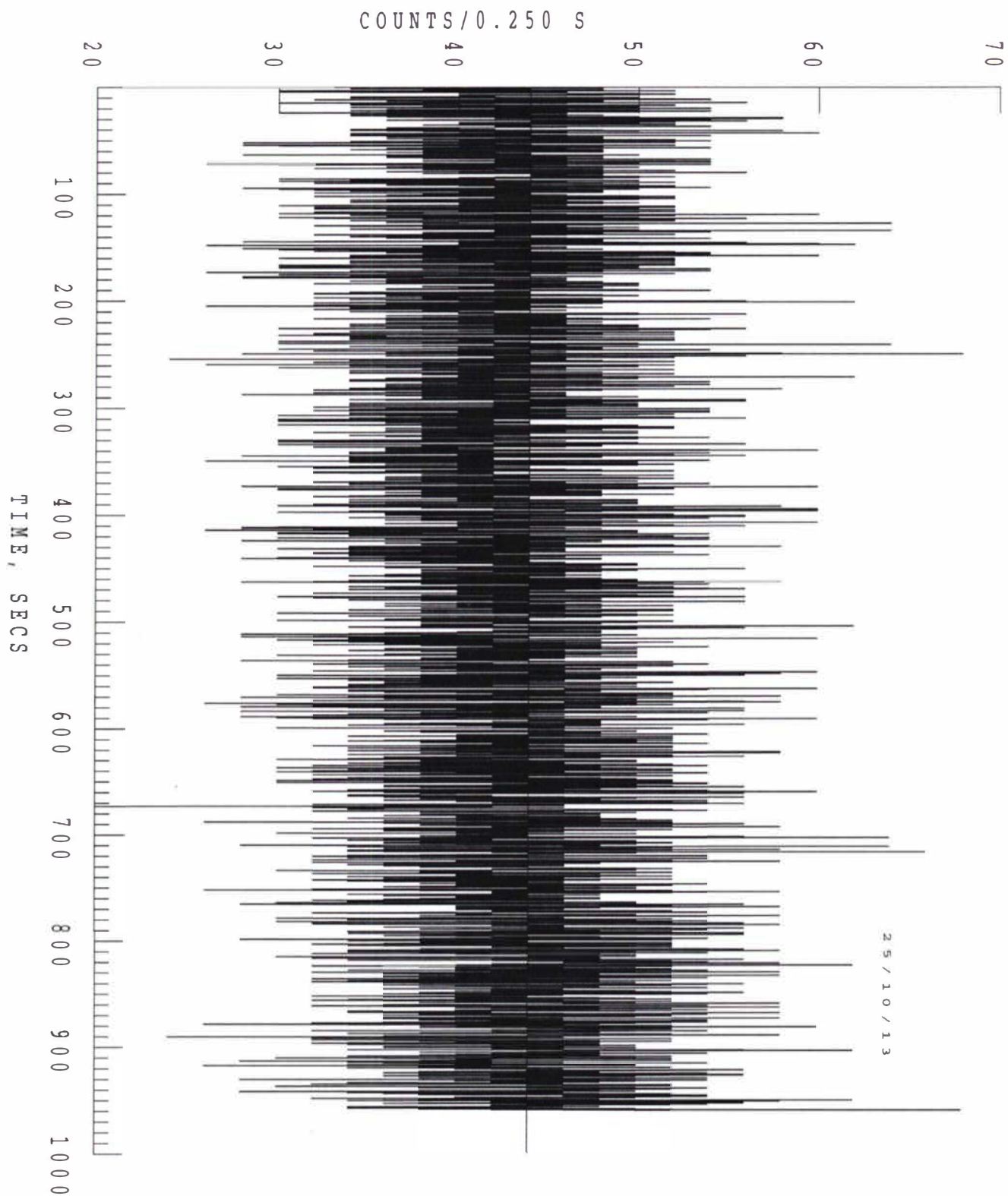
MS01

02/05/13

62867.425

C

50 - 3000 keV

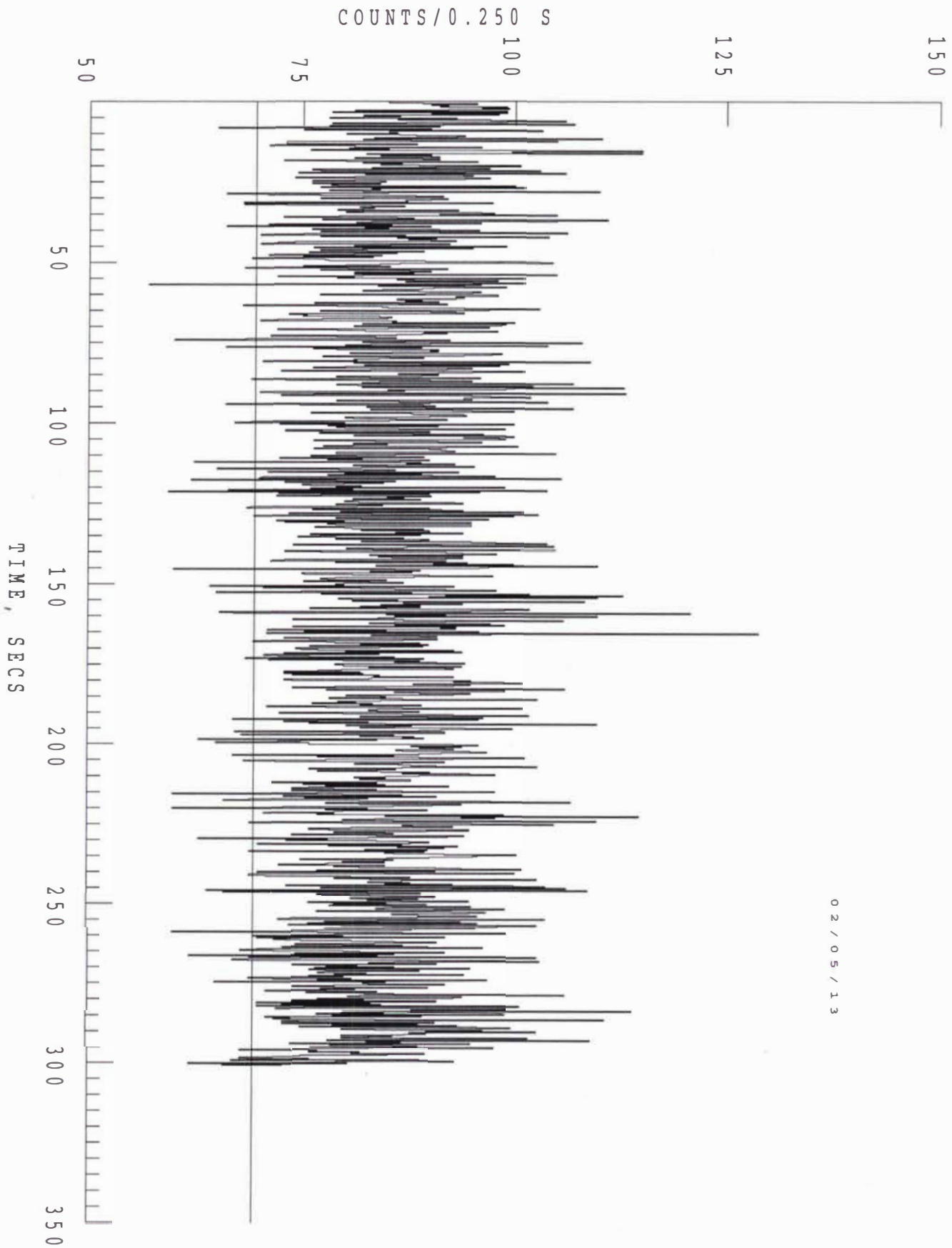


HESSI

02/05/13 64079.000 (SWIFT_20130502_64230)



25- 150 keV



02 / 05 / 13

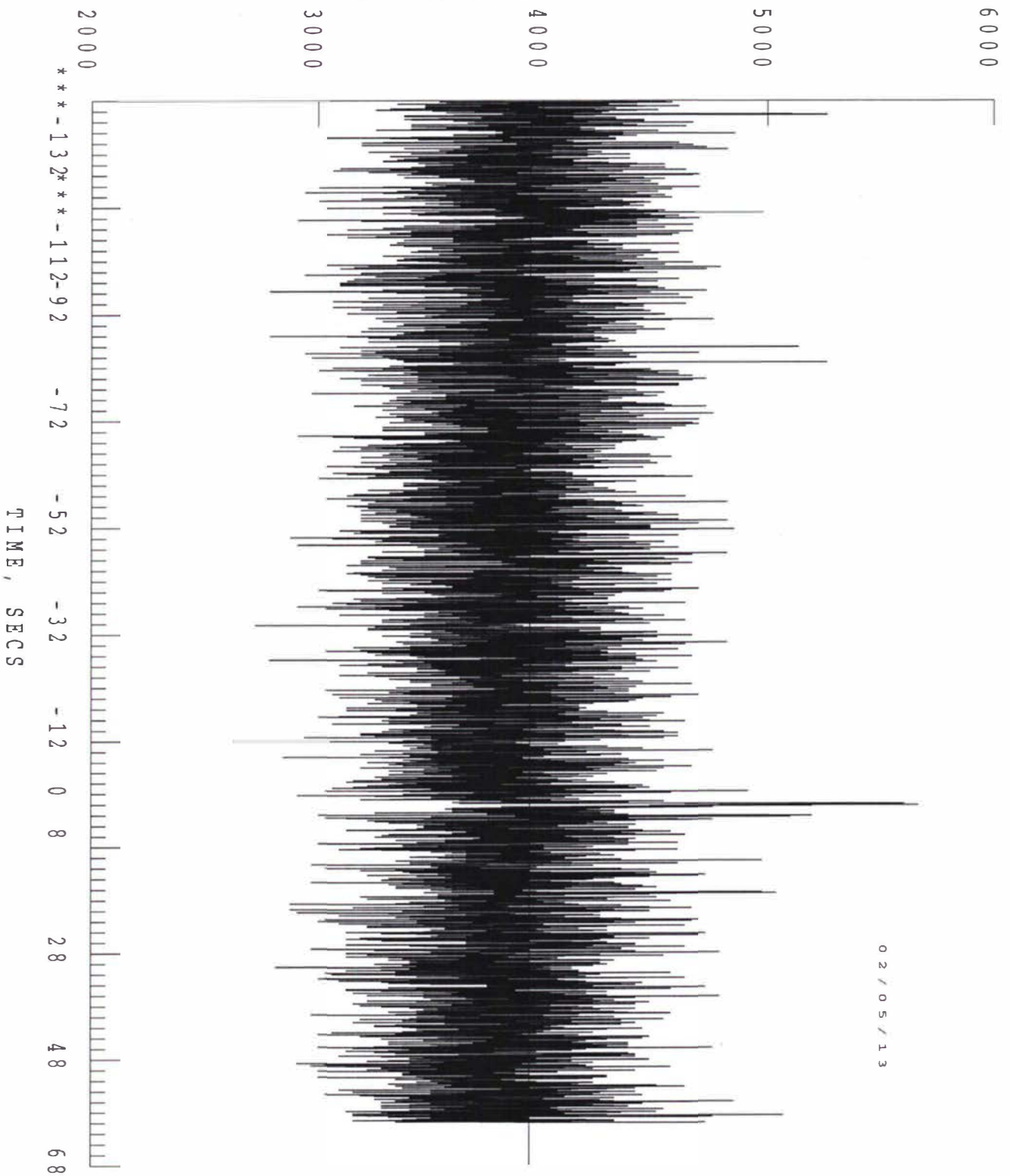
GLAST

02/05/13

64230.741

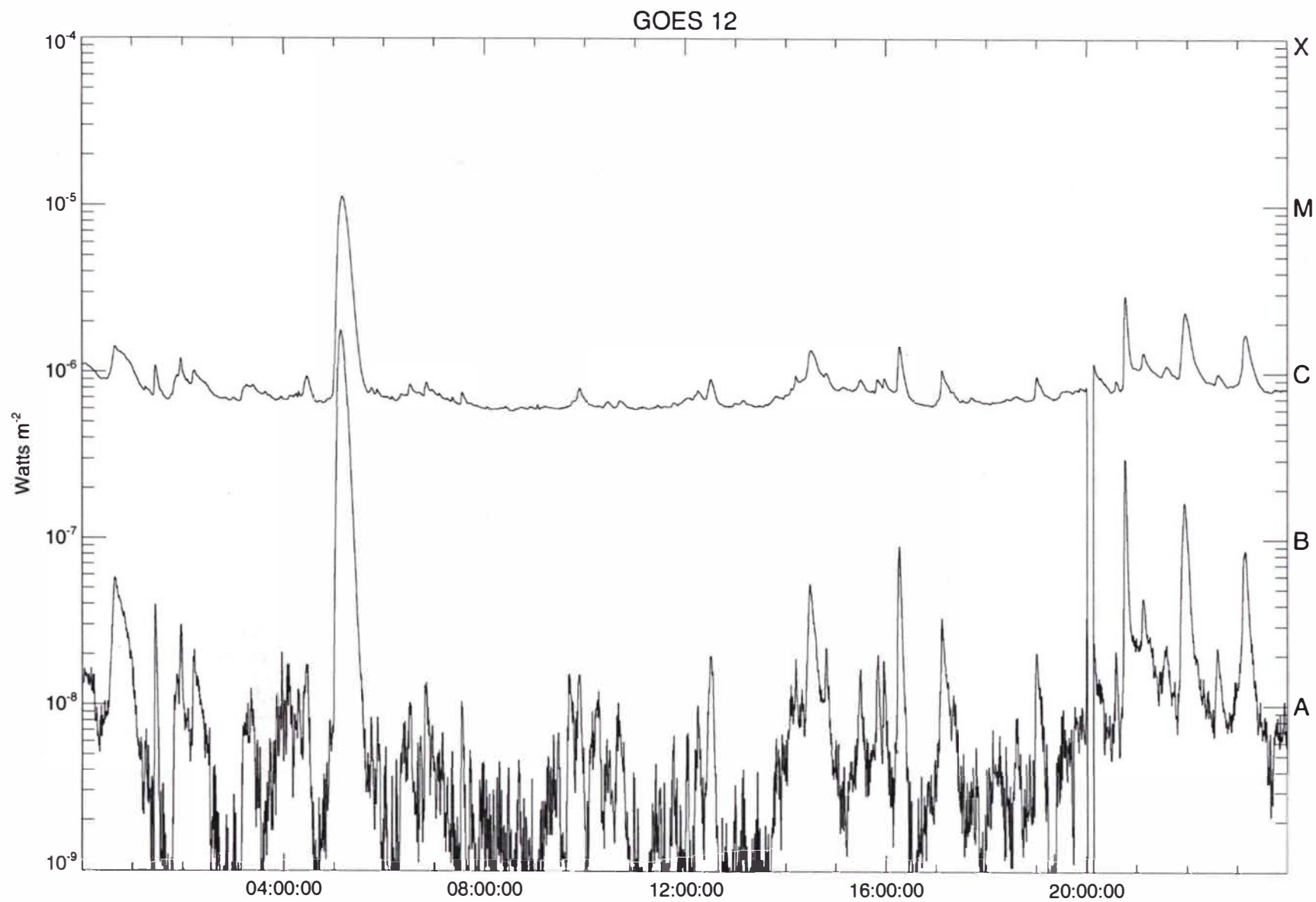
26- 293 keV

COUNTS/0.032 S



From vxw@capella2.gsfc.nasa.gov Thu May 2 10:51:12 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Thu, 2 May 2013 13:51:10 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/FERMI_GBM_GND_POSITION
X-Barracuda-BRTS-Status: 1

TITLE: GCN/FERMI NOTICE
NOTICE_DATE: Thu 02 May 13 17:51:10 UT
NOTICE_TYPE: Fermi-GBM Ground Position
RECORD_NUM: 56
TRIGGER_NUM: 389209833
GRB_RA: 133.810d {+08h 55m 14s} (J2000),
133.988d {+08h 55m 57s} (current),
133.142d {+08h 52m 34s} (1950)
GRB_DEC: +7.680d {+07d 40' 48"} (J2000),
+7.629d {+07d 37' 43"} (current),
+7.872d {+07d 52' 18"} (1950)
GRB_ERROR: 8.35 [deg radius, statistical only]
DATA_SIGNIF: 8.60 [sigma]
DATA_INTERVAL: 1.024 [sec]
GRB_DATE: 16414 TJD; 122 DOY; 13/05/02
GRB_TIME: 64230.74 SOD {17:50:30.74} UT
GRB_PHI: 113.00 [deg]
GRB_THETA: 37.00 [deg]
E_RANGE: 44.032 - 279.965 [keV]
LOC_ALGORITHM: 4143 (Gnd S/W Version number)
JN_POSTN: 40.04d {+02h 40m 09s} +15.58d {+15d 34' 57"}
JN_DIST: 91.73 [deg] Sun_angle= -6.3 [hr] (East of Sun)
MOON_POSTN: 316.77d {+21h 07m 06s} -10.99d {-10d 59' 18"}
MOON_DIST: 175.66 [deg]
MOON_ILLUM: 47 [%]
GAL_COORDS: 220.54, 30.97 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 134.05, -9.32 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: Fermi-GBM Ground-calculated Coordinates.
COMMENTS: In the LAT Field-of-view.
COMMENTS: This Notice was ground-generated -- not flight-generated.



Data Start: 13/05/02, 0000:11

Plot created: 13/05/05, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

GLAST

03/05/13

18508.949

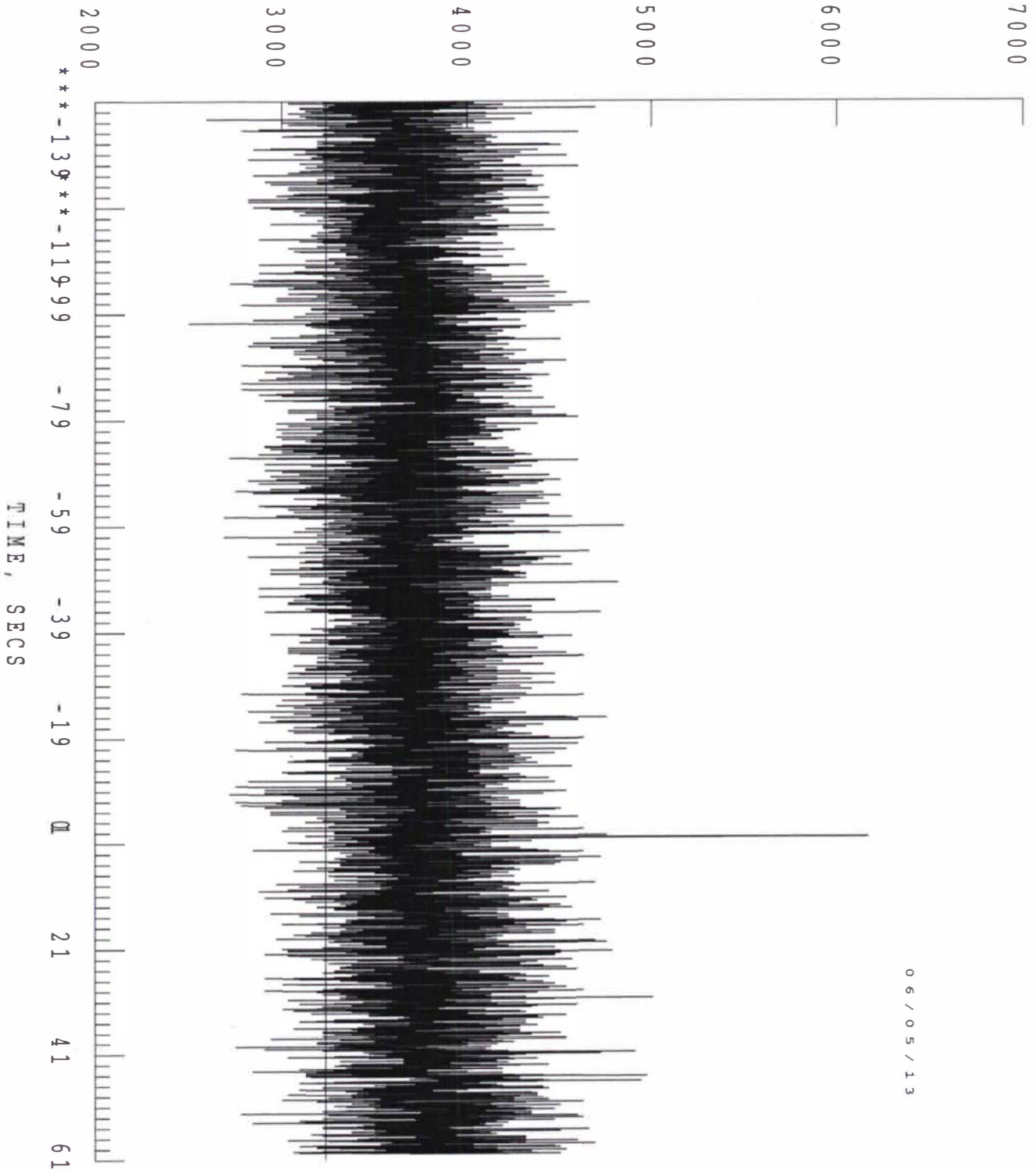
05:08:28

A

26 - 293 keV

214.72 -11.55 21.5

COUNTS/0.032 S



A

From vxw@capella2.gsfc.nasa.gov Fri May 3 02:06:00 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Fri, 3 May 2013 05:05:55 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/FERMI_GBM_FINAL_POSITION
X-Barracuda-BRTS-Status: 1

TITLE: GCN/FERMI NOTICE
NOTICE_DATE: Fri 03 May 13 09:05:54 UT
NOTICE_TYPE: Fermi-GBM Final Position
RECORD_NUM: 0
TRIGGER_NUM: 389250511
GRB_RA: 214.720d {+14h 18m 53s} (J2000),
214.900d {+14h 19m 36s} (current),
214.048d {+14h 16m 11s} (1950)
GRB_DEC: -11.550d {-11d 32' 59"} (J2000),
-11.611d {-11d 36' 38"} (current),
-11.320d {-11d 19' 12"} (1950)
GRB_ERROR: 21.48 [deg radius, statistical only]
GRB_DATE: 16415 TJD; 123 DOY; 13/05/03
GRB_TIME: 18508.95 SOD {05:08:28.95} UT
GRB_PHI: 198.99 [deg]
GRB_THETA: 22.00 [deg]
E_RANGE: 50.000 - 300.000 [keV]
LOC_ALGORITHM: 414 (Gnd S/W Version number)
SUN_POSTN: 40.65d {+02h 42m 35s} +15.77d {+15d 46' 09"}
SUN_DIST: 173.04 [deg] Sun_angle= -11.6 [hr] (East of Sun)
MOON_POSTN: 325.14d {+21h 40m 33s} -8.33d {-08d 19' 59"}
MOON_DIST: 107.83 [deg]
MOON_ILLUM: 40 [%]
GAL_COORDS: 334.54, 45.89 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 216.30, 2.19 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: Fermi-GBM Final Position.
COMMENTS: This Notice was ground-generated -- not flight-generated.

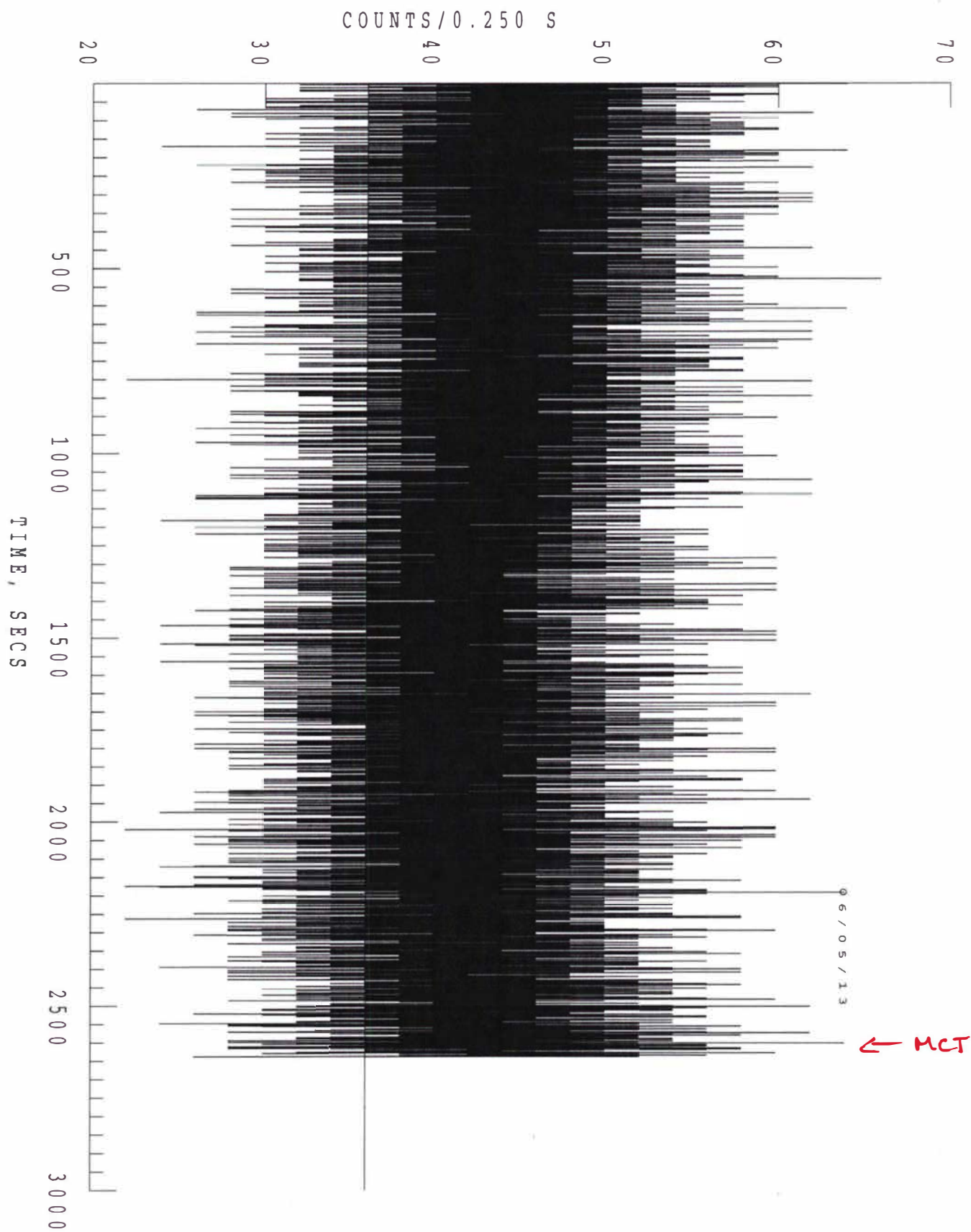
MS01

03/05/13

17146.780

A

50 - 3000 keV

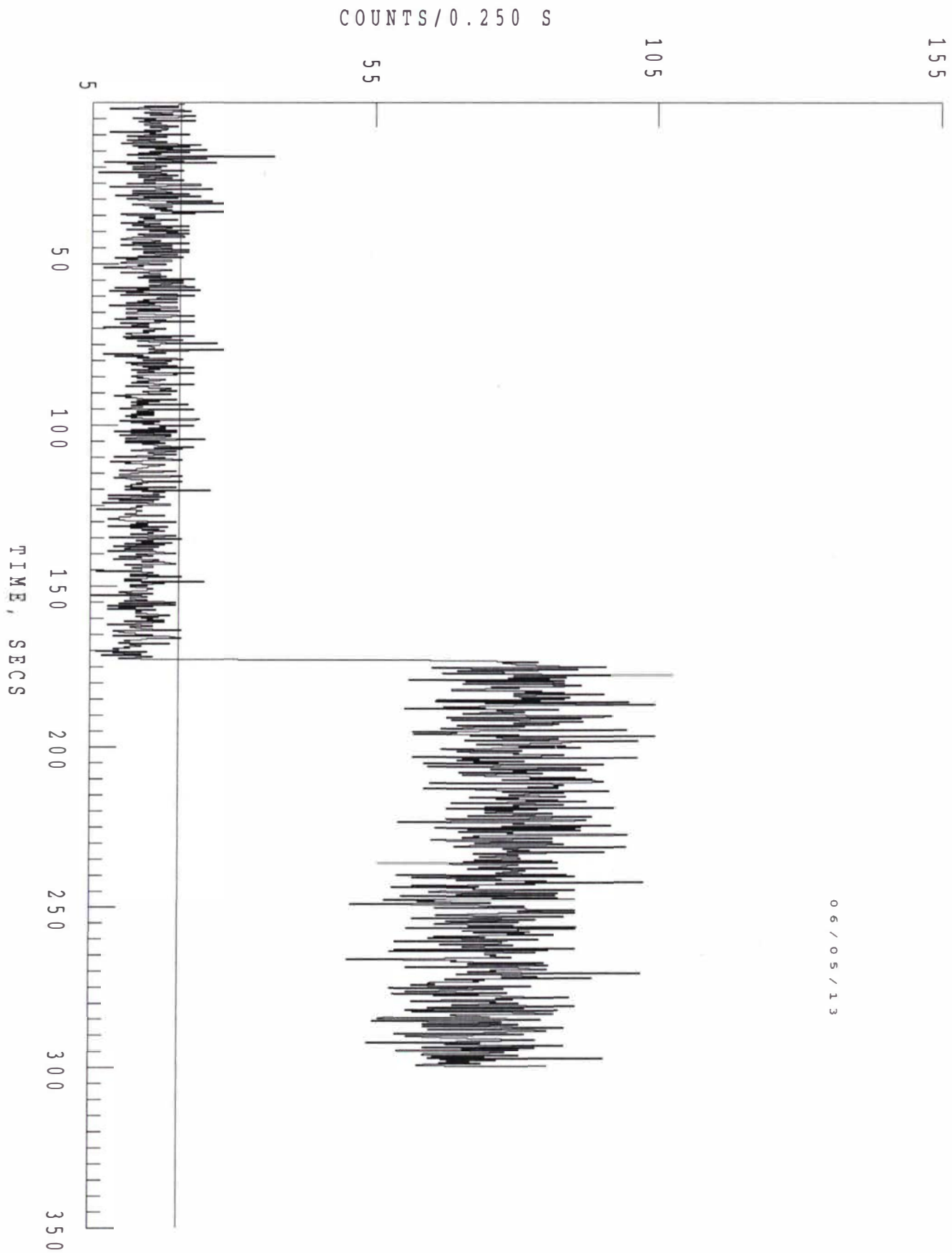


HESSI

03/05/13 18358.000 (GLAST_20130503_18508)

A

25 - 150 keV



Subject: [Ipn] BAT lightcurve for trigger at 130503_0508

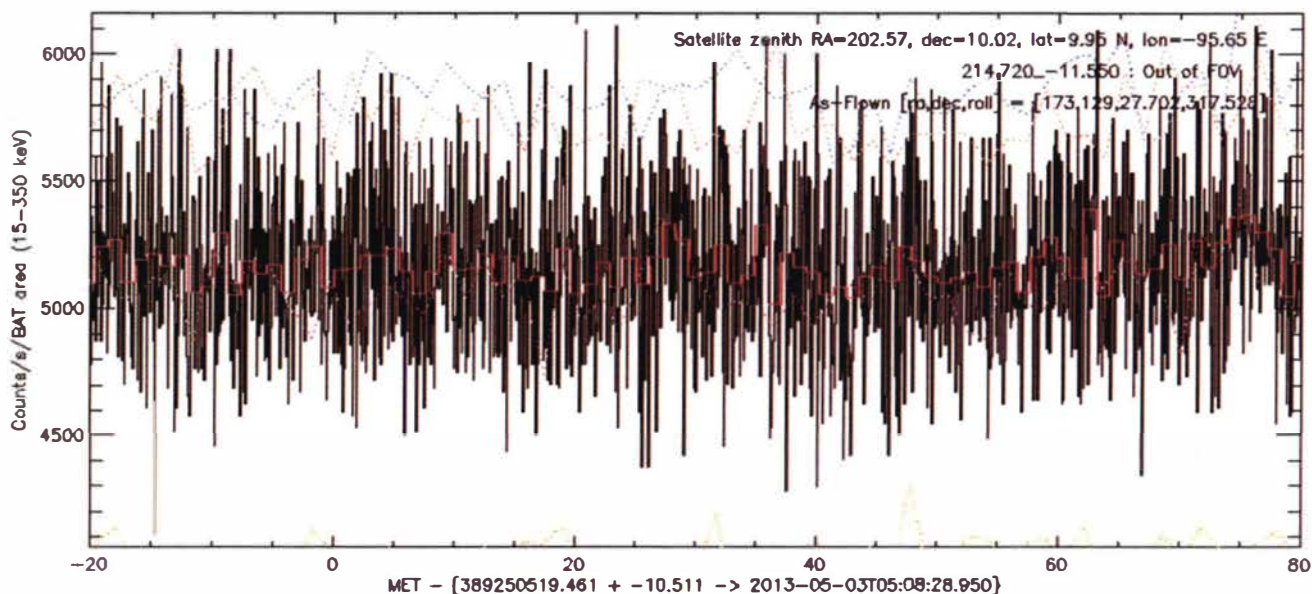
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/3/2013 2:45 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130503_0508.png



```
% /usr/local/bin/swinfo -o 389250519.461 -s 214.720_-11.550
Time(MET + UTCF -> UT): 389250519.461 + -10.511 -> 2013-05-03T05:08:28.950
YYMMDD_SOD: 130503_18508.950 DOY=123
Swift Zenith(RA,dec): 202.57, 10.02
Swift Location(lon,lat,alt): -95.65 E, 9.95 N, 566 km
Obs Sequence Number: 00554620030
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-03 04:41:51 - 05:11:46
Obs Pointing(ra,dec,roll): 173.129, 27.702, 317.53
214.720_-11.550_imageloc (boresight_dist, angle): (56, 81)
214.720_-11.550_exposure (cm^2 cos adjusted): 0
214.720_-11.550_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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130503_0508.png	20.6 KB
/tmp/130503_0508_bat64ms_ipn	87.0 KB

KONUS2

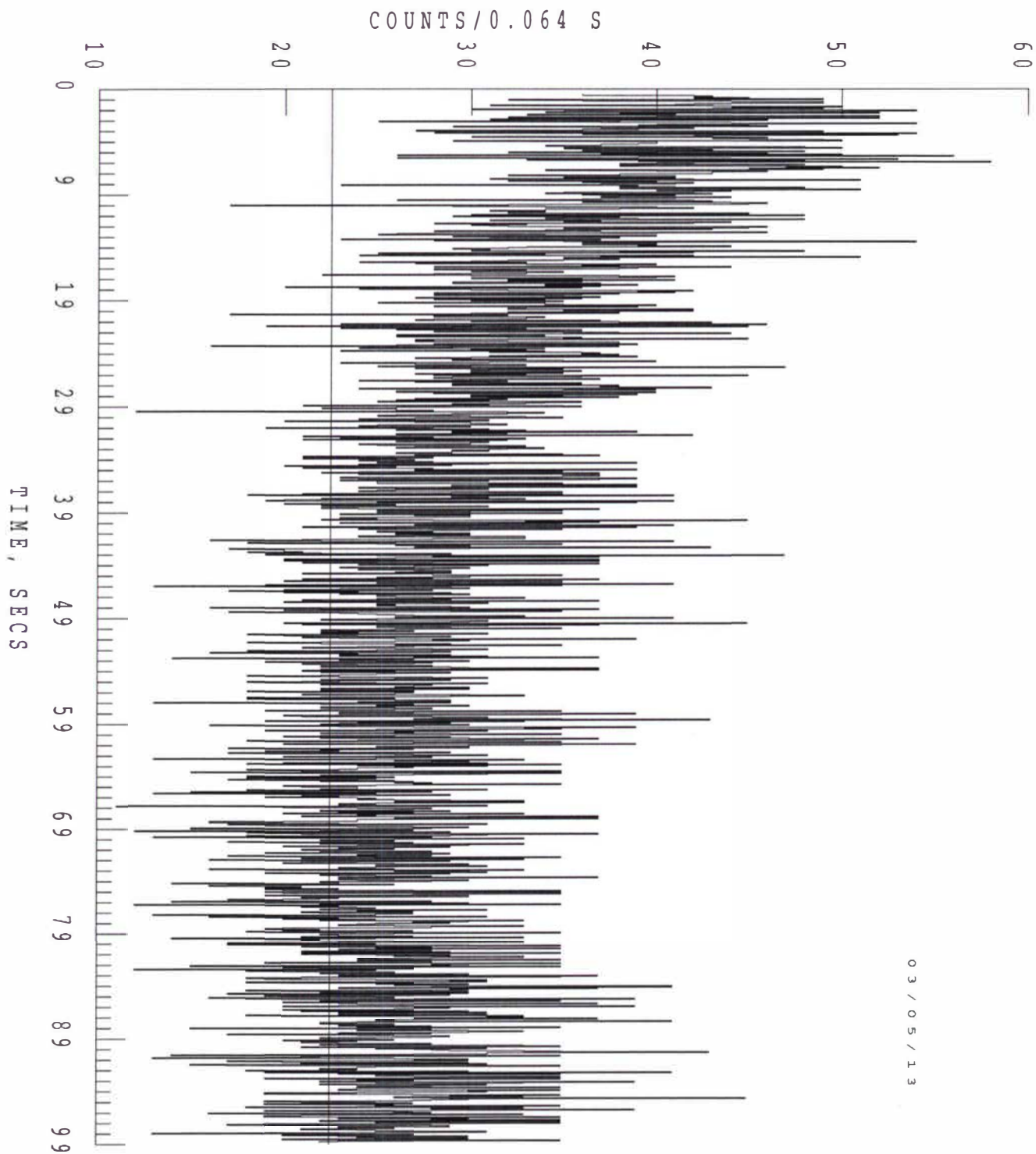
03/05/13

62981.651

13

50 - 200 keV

Solar



KONUS HRES 20130503 62981

TRIGGER TIME: 03/05/13 DOY 123 Julian 2456417.22895 UT = 17.495 17:29:41 (62981.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

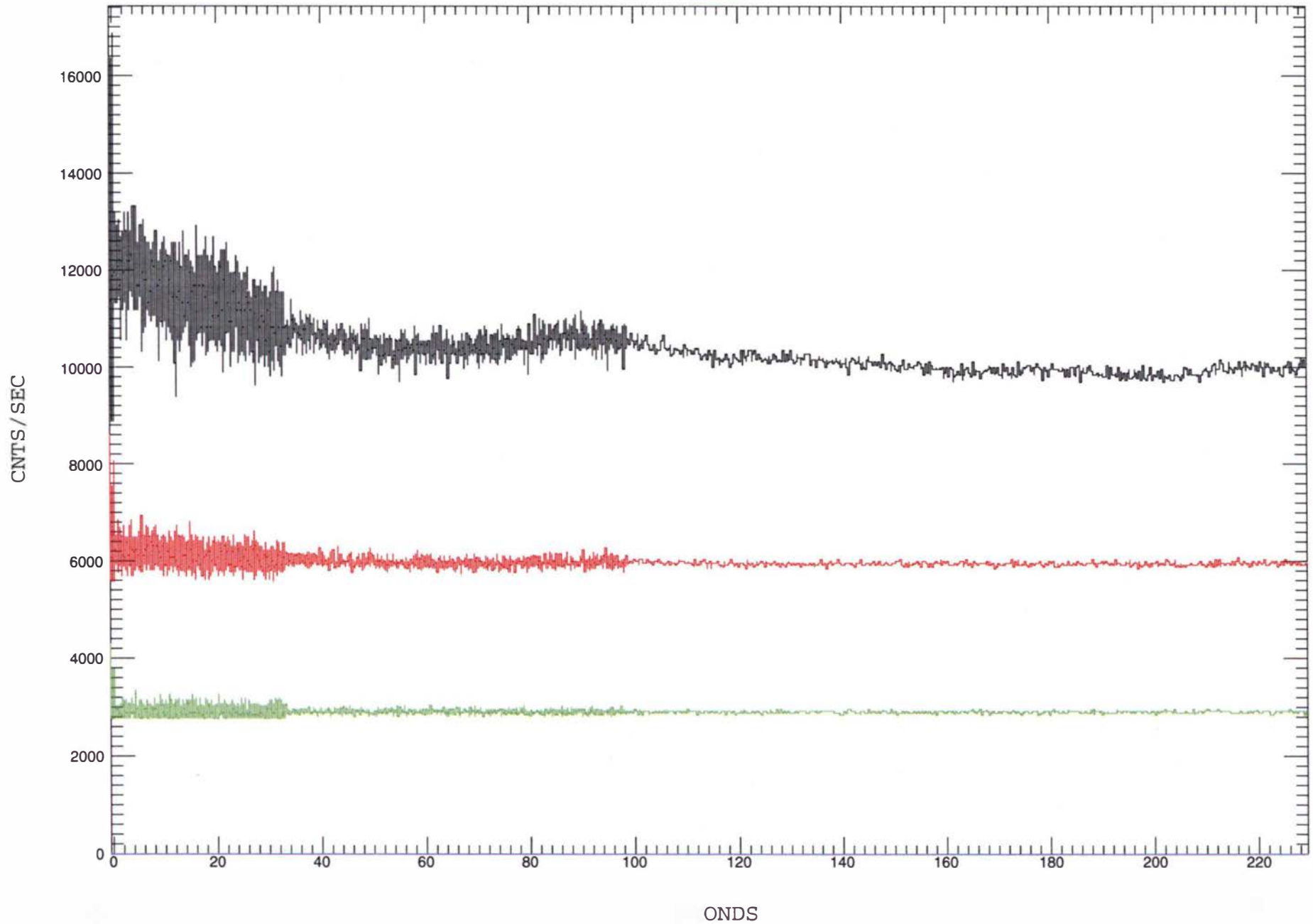
Chan 4 : [> 10 MeV]

Channel 1 + 8400

Channel 2 + 5600

Channel 3 + 2800

Channel 4 + 0



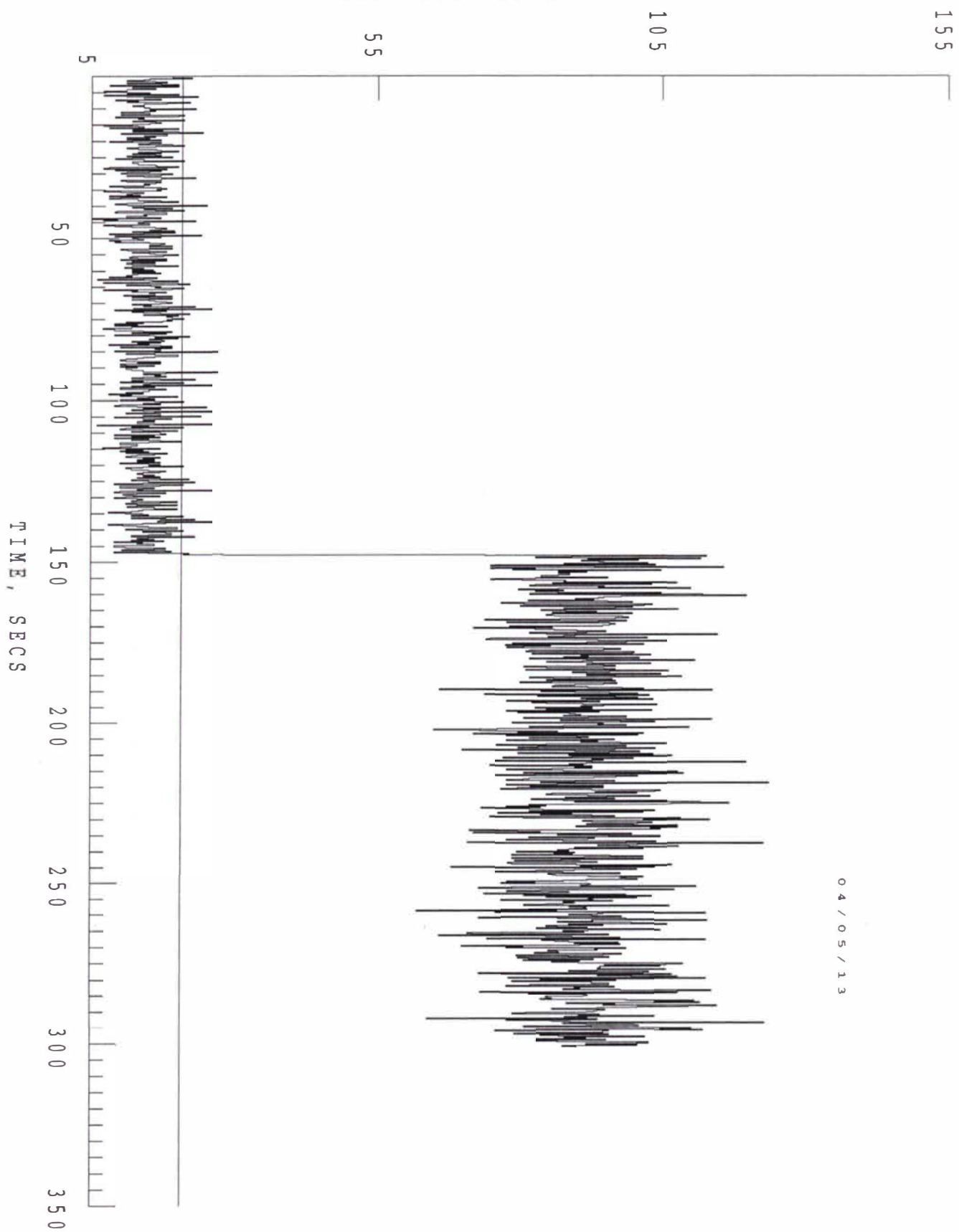
B

HESSI

03/05/13 62830.000 (KONUS2_20130503_62981)

25- 150 keV

COUNTS/0.250 S



B

Subject: [lpn] BAT lightcurve for trigger at 130503_1729

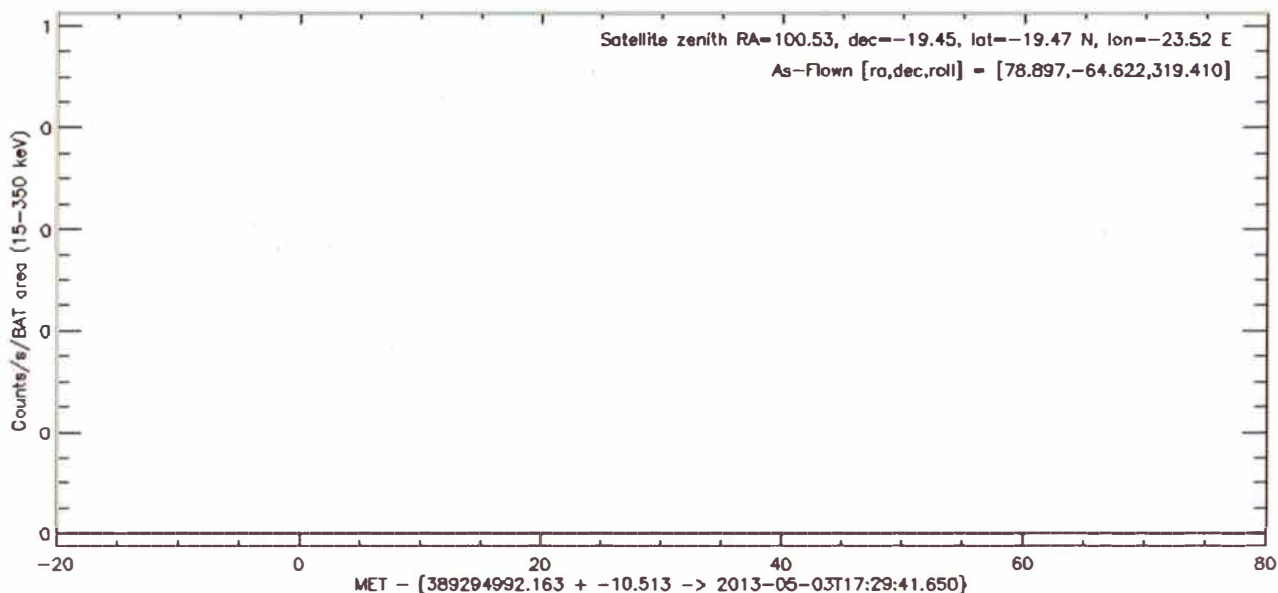
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/3/2013 9:20 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130503_1729.png



```
% /usr/local/bin/swinfo -o 389294992.163
Time(MET + UTCF -> UT): 389294992.163 + -10.513 -> 2013-05-03T17:29:41.650
YYMMDD_SOD: 130503_62981.650 DOY=123
Swift Zenith(RA,dec): 100.53, -19.45
Swift Location(lon,lat,alt): -23.52 E, -19.47 N, 580 km
Obs Sequence Number: 00048306001
Obs Target Name: 1RXS_J051545.6-643812
Obs Date and Times: 2013-05-03 17:11:51 - 17:41:47
Obs Pointing(ra,dec,roll): 78.897, -64.622, 319.41
```

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

lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

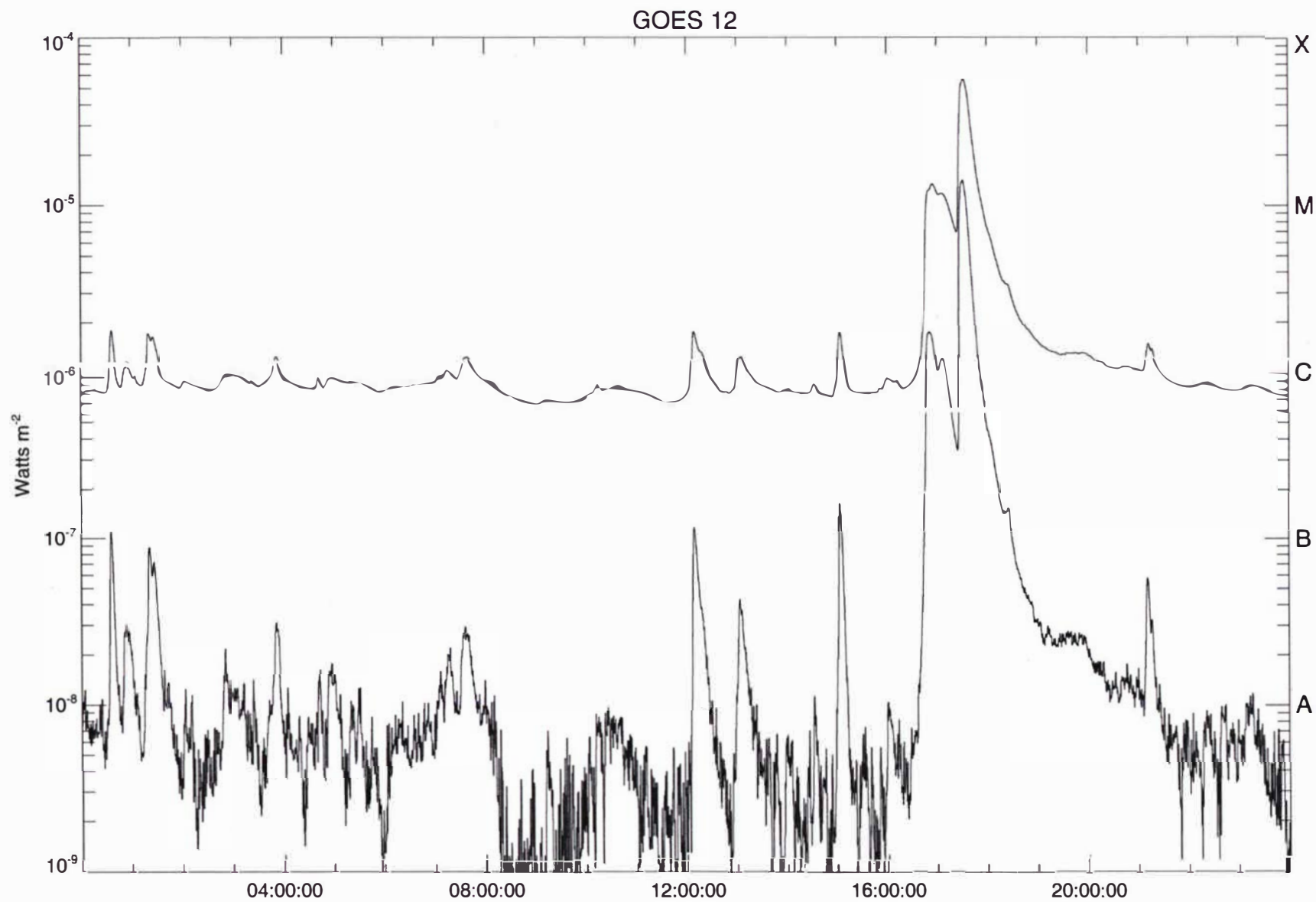
Attachments:

/tmp/130503_1729_bat64ms_ipn

87.0 KB

/tmp/130503_1729.png

5.6 KB



Data Start: 13/05/03, 0000:11

Plot created: 13/05/06, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

A

From vxw@capella2.gsfc.nasa.gov Fri May 3 19:09:32 2013
 X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
 X-Barracuda-Apparent-Source-IP: 128.183.96.236
 Date: Fri, 3 May 2013 22:09:30 -0400
 From: Bacodine <vxw@capella2.gsfc.nasa.gov>
 To: khurley@ssl.berkeley.edu
 Subject: GCN/SWIFT BAT LIGHTCURVE
 X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
 X-Barracuda-BRTS-Status: 1

TITLE: GCN/SWIFT NOTICE

NOTICE_DATE: Sat 04 May 13 02:09:24 UT

NOTICE_TYPE: Swift-BAT GRB Lightcurve

TRIGGER_NUM: 555096, Seg_Num: 0

GRB_RA: 272.365d {+18h 09m 27s} (J2000),
 272.557d {+18h 10m 14s} (current),
 271.642d {+18h 06m 34s} (1950)

GRB_DEC: -16.344d {-16d 20' 38"} (J2000),
 -16.341d {-16d 20' 27"} (current),
 -16.354d {-16d 21' 13"} (1950)

GRB_DATE: 16416 TJD; 124 DOY; 13/05/04

GRB_TIME: 7534.31 SOD {02:05:34.31} UT

TRIGGER_INDEX: 472

GRB_PHI: -174.02 [deg]

GRB_THETA: 13.80 [deg]

DELTA_TIME: 77.00 [sec]

TRIGGER_DUR: 1.408 [sec]

SOLN_STATUS: 0x3

RATE_SIGNIF: 10.44 [sigma]

MAGE_SIGNIF: 7.07 [sigma]

C_URL: sw00555096000msb.lc

SUN_POSTN: 41.33d {+02h 45m 19s} +15.98d {+15d 58' 34"}
 SUN_DIST: 130.93 [deg] Sun_angle= 8.6 [hr] (West of Sun)

MOON_POSTN: 334.23d {+22h 16m 56s} -5.22d {-05d 13' 01"}
 MOON_DIST: 61.38 [deg]

MOON_ILLUM: 33 [%]

GAL_COORDS: 13.65, 1.56 [deg] galactic lon,lat of the burst (or transient)

ECL_COORDS: 272.29, 7.08 [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 = 336.90,18.32 [deg]

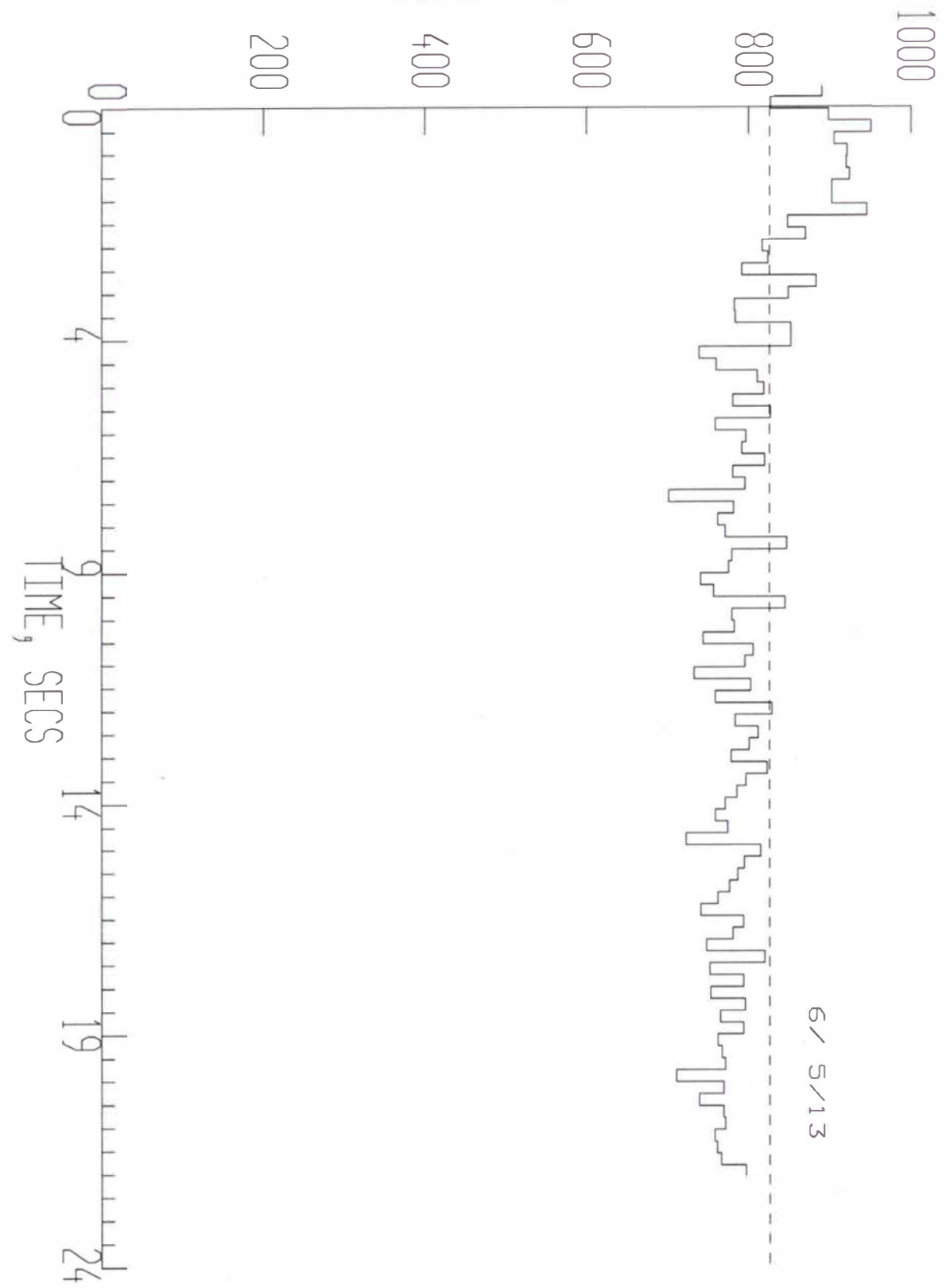
50s

 $1 \times 10^{-6} \text{ erg cm}^{-2}$ 0.9 phot/cm²s

Galactic transient?

SWIFT 04/05/13 7534.318
25- 100 keV

COUNTS/0.256 S



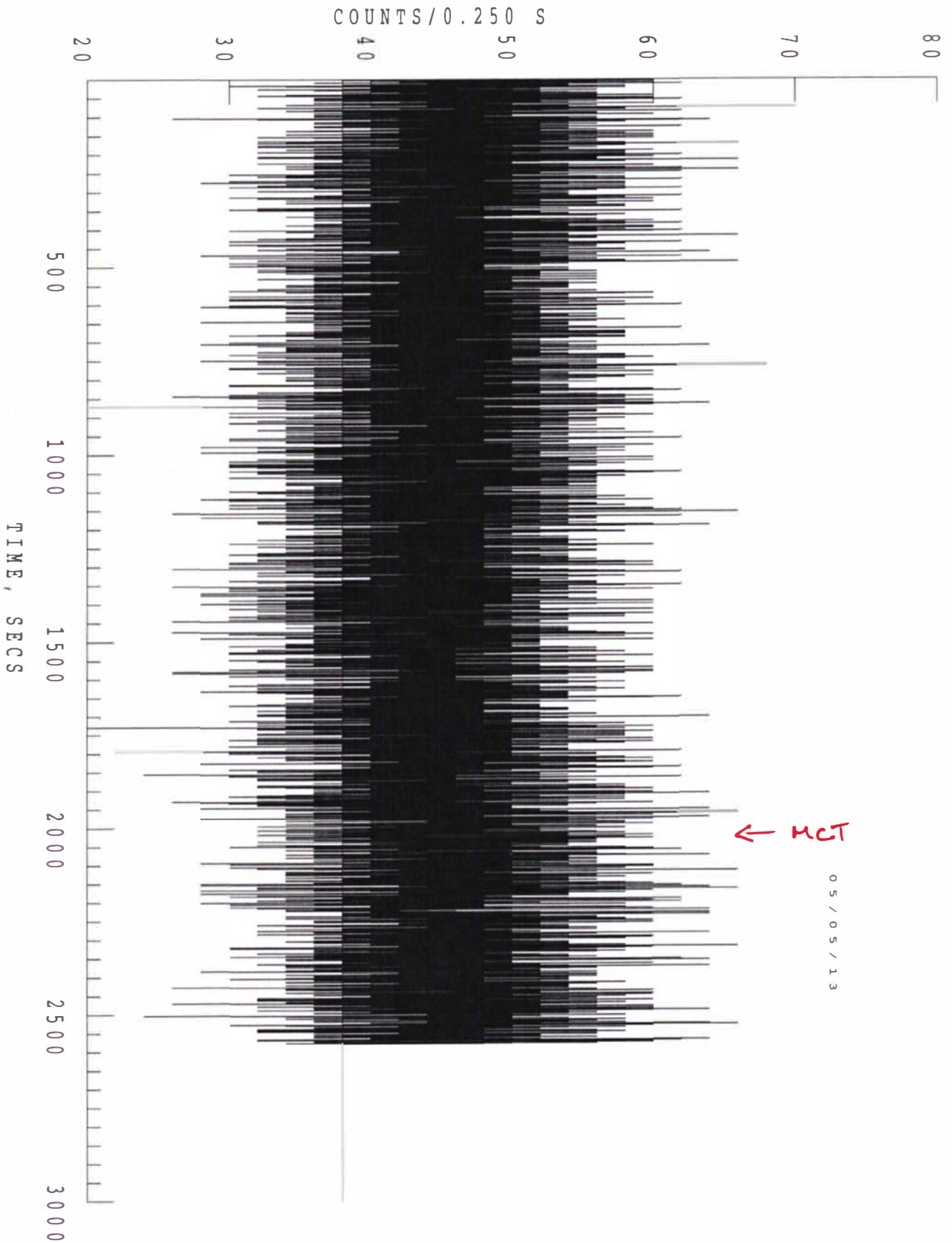
MS01

04/05/13

6225.500

A

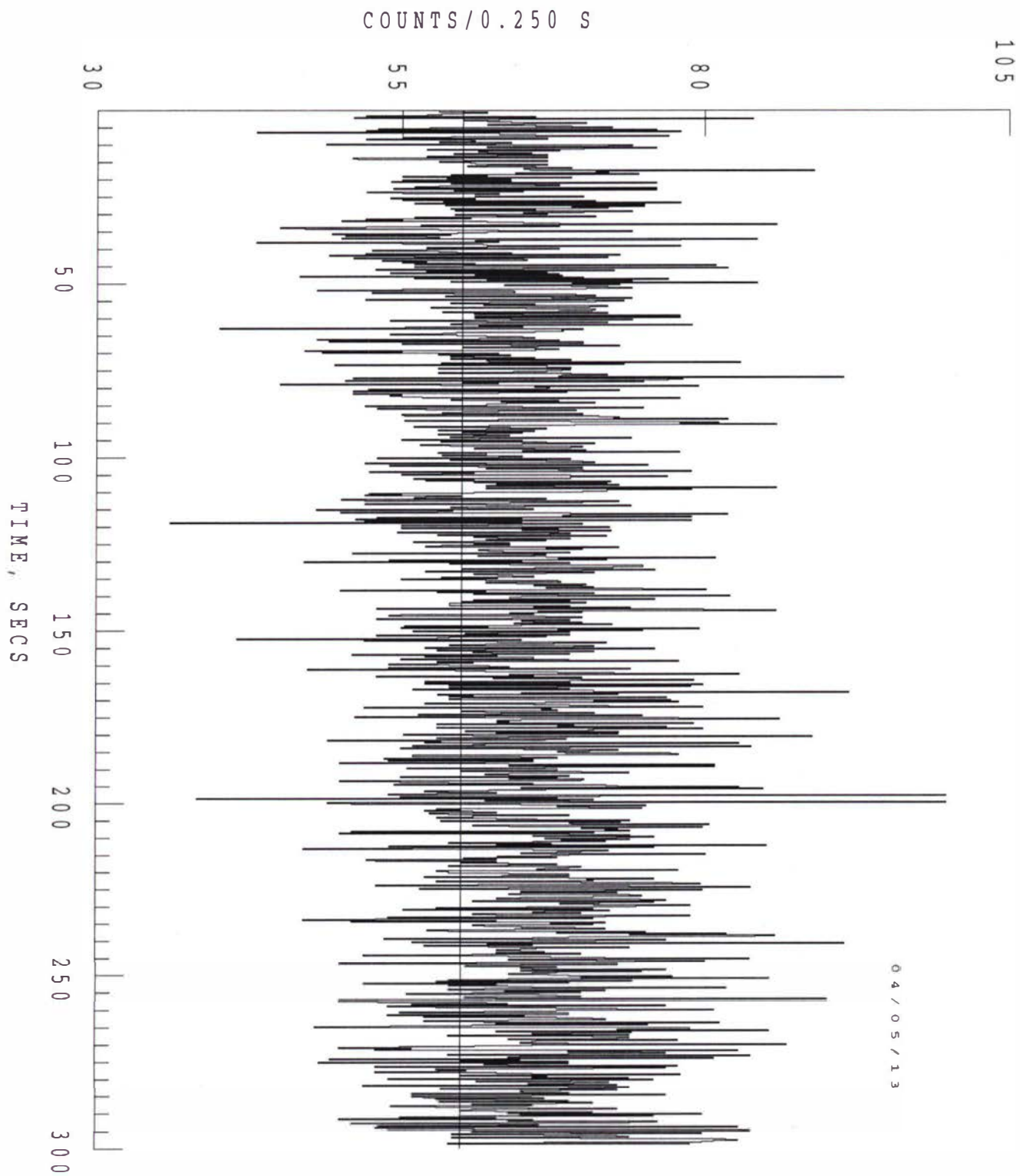
50 - 3000 keV



HESSI

04/05/13 7384.000 (SWIFT_20130504_07534)

25- 150 keV



B

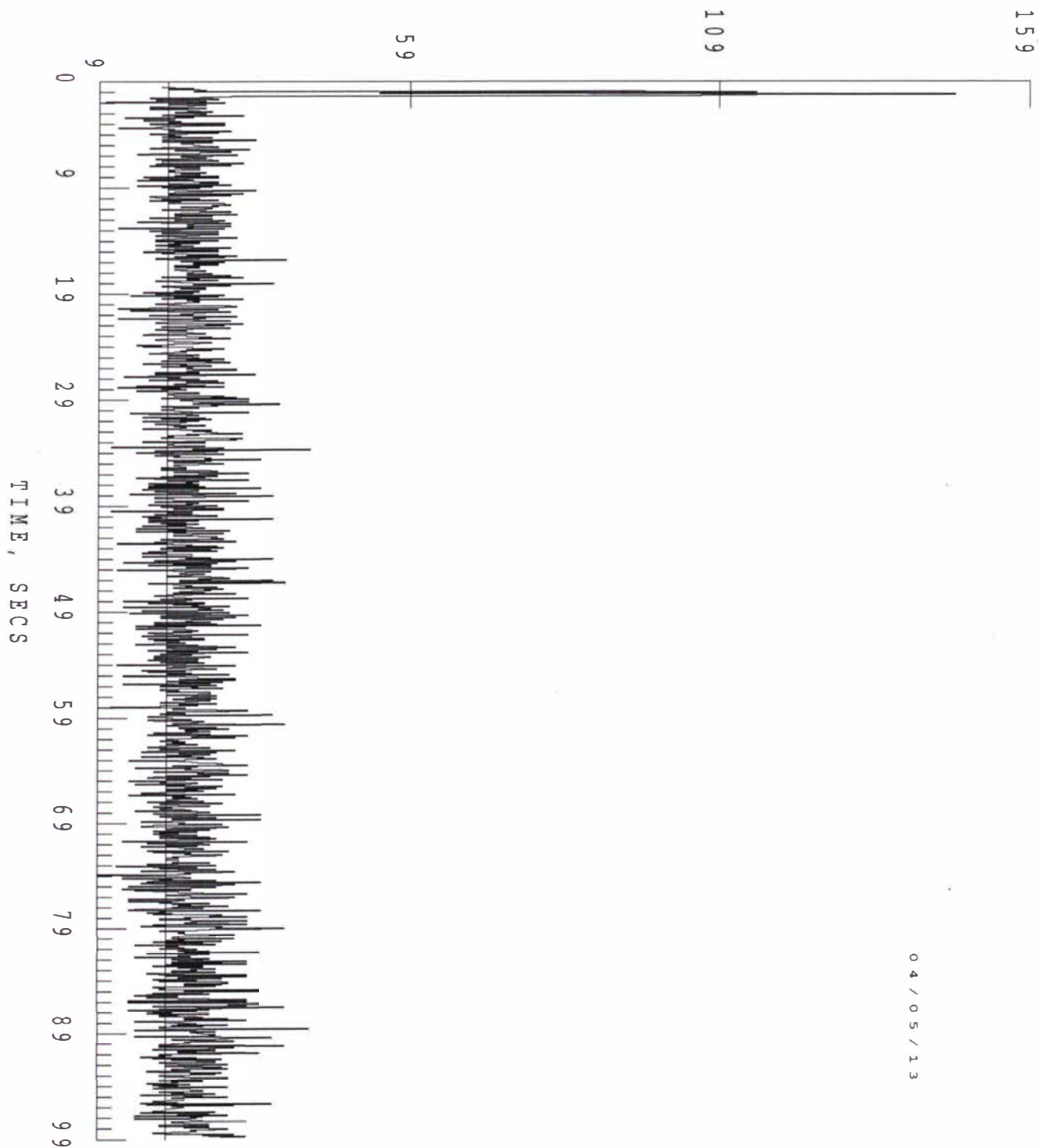
KONUS2

04/05/13

27119.723

50 - 200 keV

COUNTS/0.064 S



B

KONUS HRES 20130504 27119

TRIGGER TIME: 04/05/13 DOY 124 Julian 2456417.81388 UT = 07.533 07:31:59 (27119.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

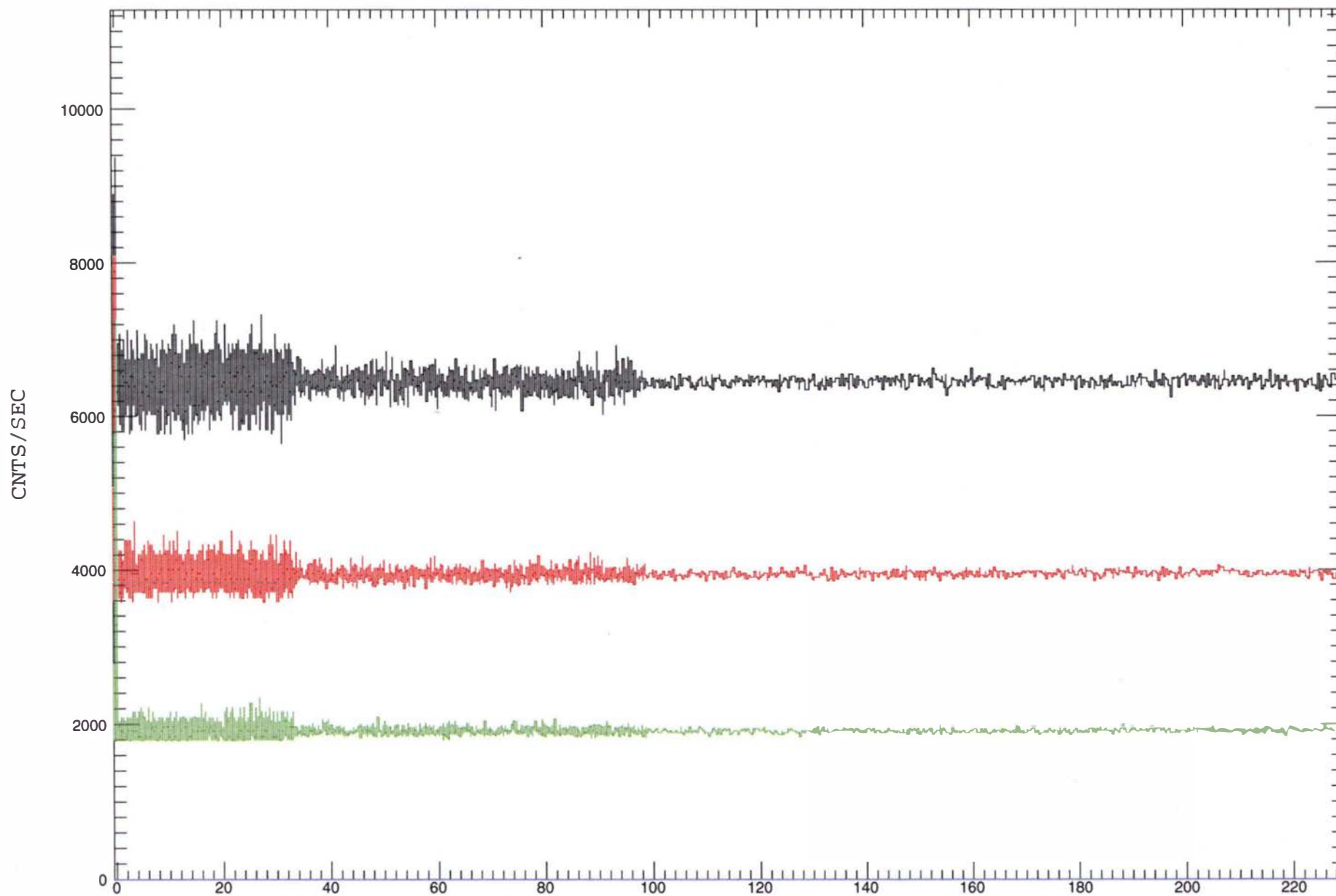
Chan 4 : [> 10 MeV]

Channel 1 + 5400

Channel 2 + 3600

Channel 3 + 1800

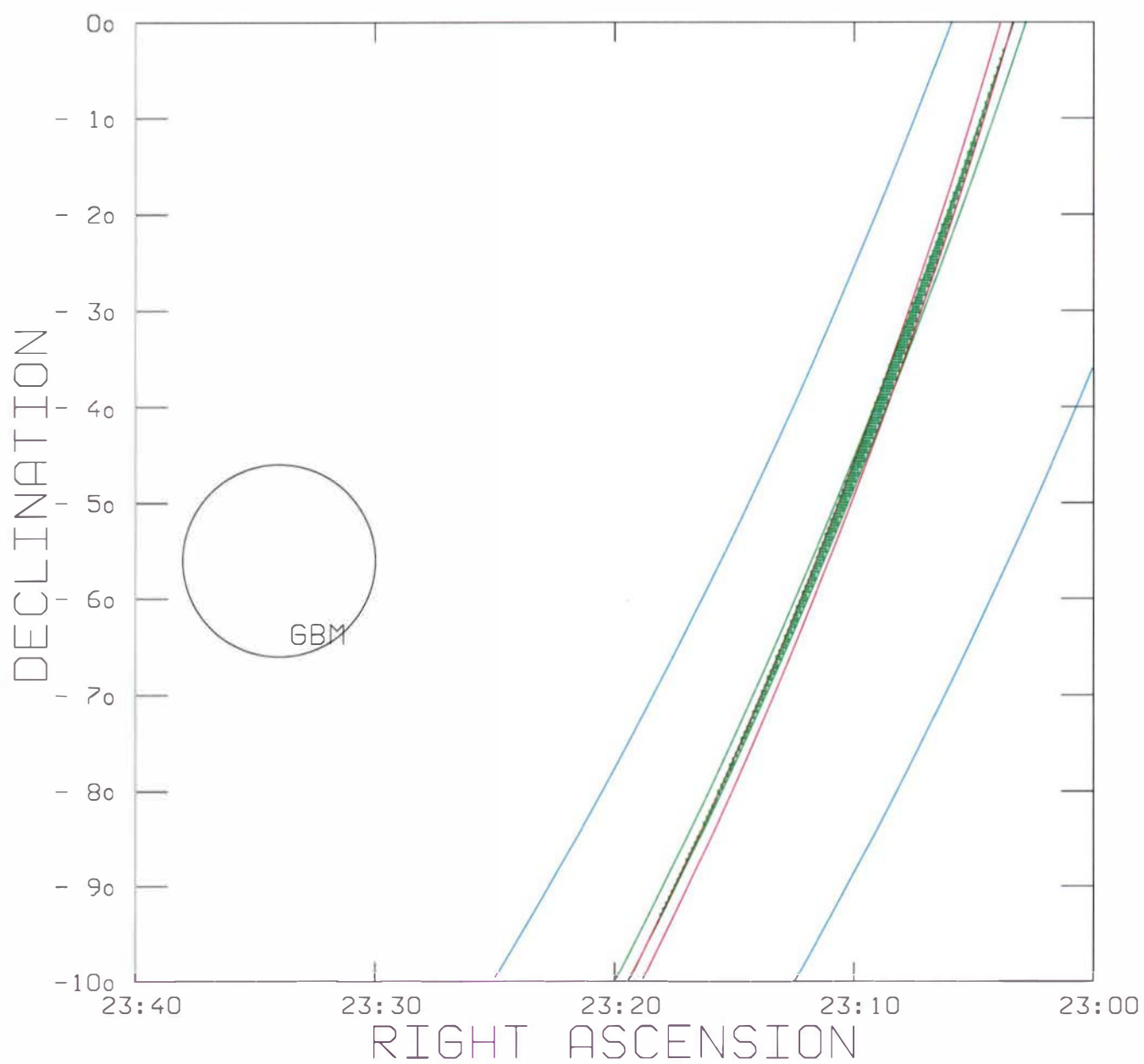
Channel 4 + 0



SECONDS

GRB130504 ~27123 S

22/06/2020



MS01

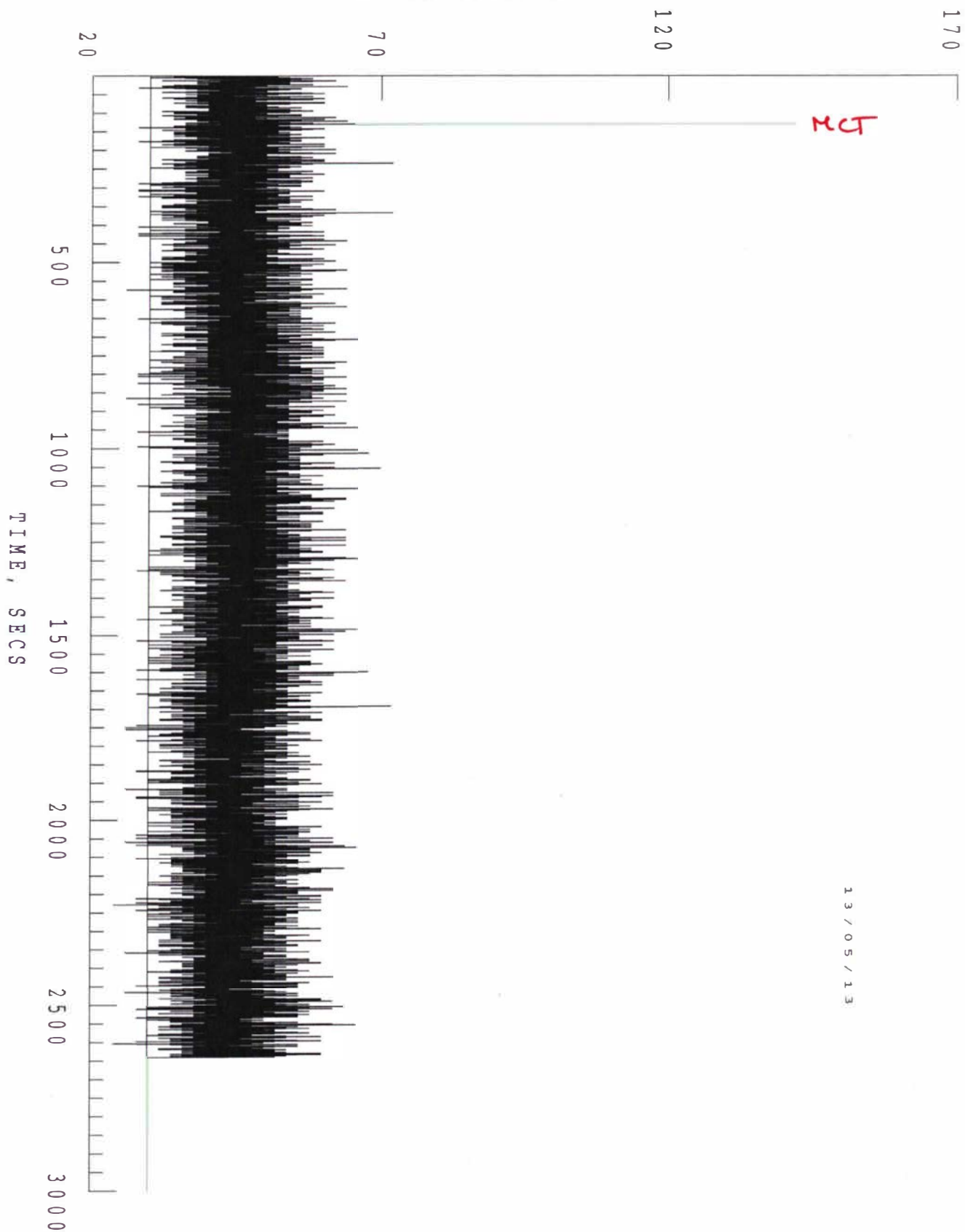
04/05/13

26265.174

B

50 - 3000 keV

COUNTS/0.250 S

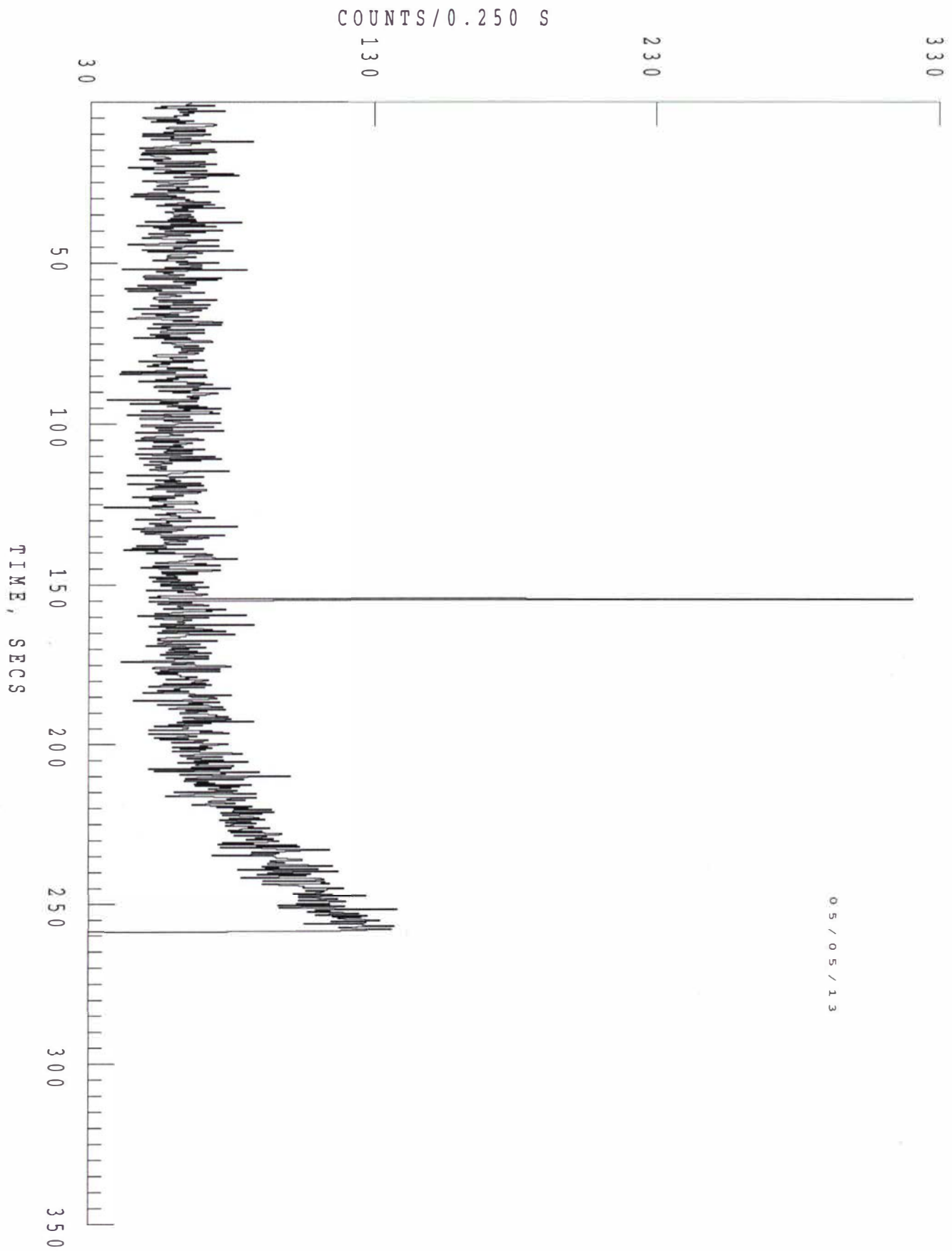


HESSI

04/05/13 26969.000 (KONUS2_20130504_27119)

B

25- 150 keV



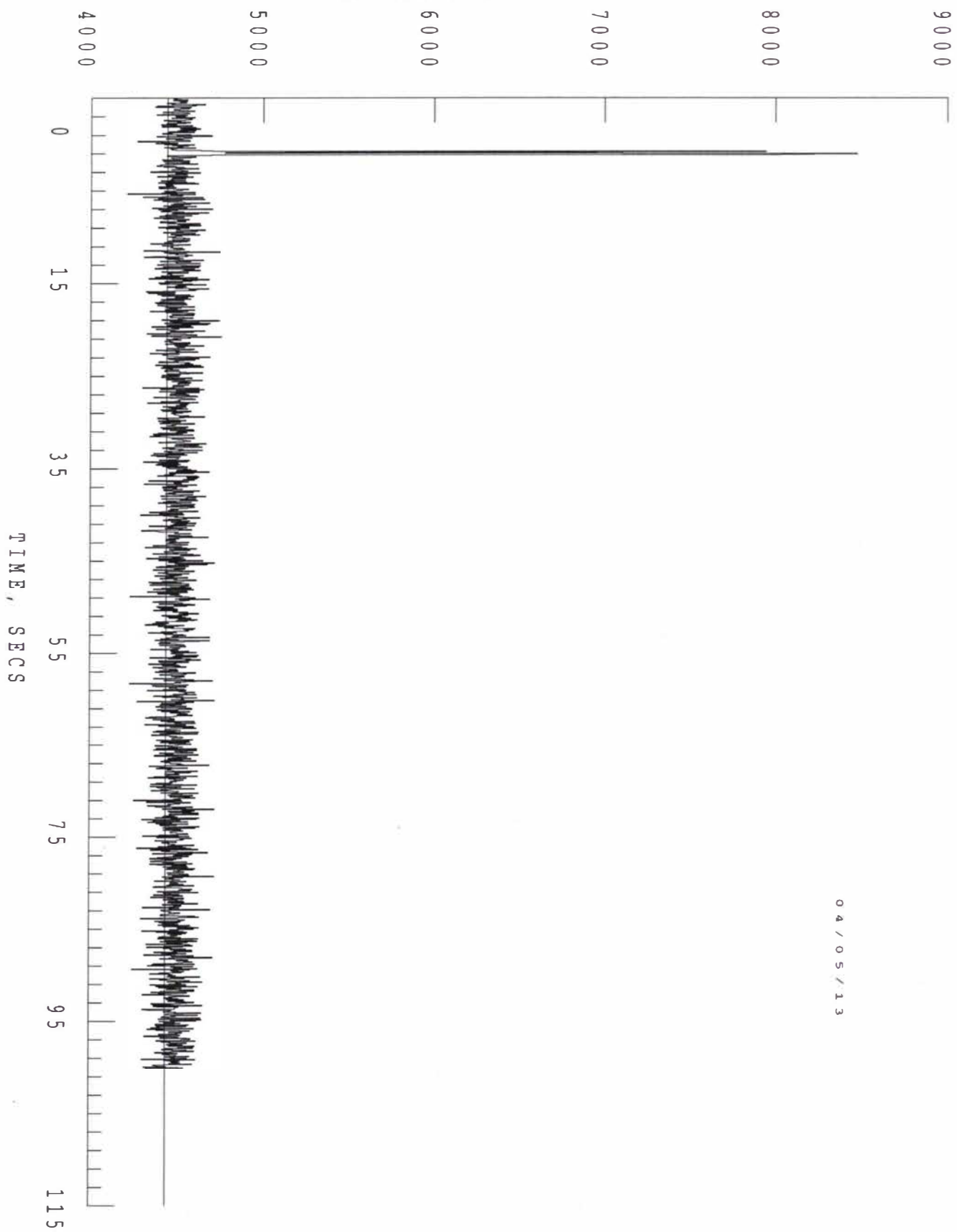
INTEGRAL

04/05/13

27122.507

100-10000 keV

COUNTS/0.050 S



04/05/13

Subject: [lpn] BAT lightcurve for trigger at 130504_0732

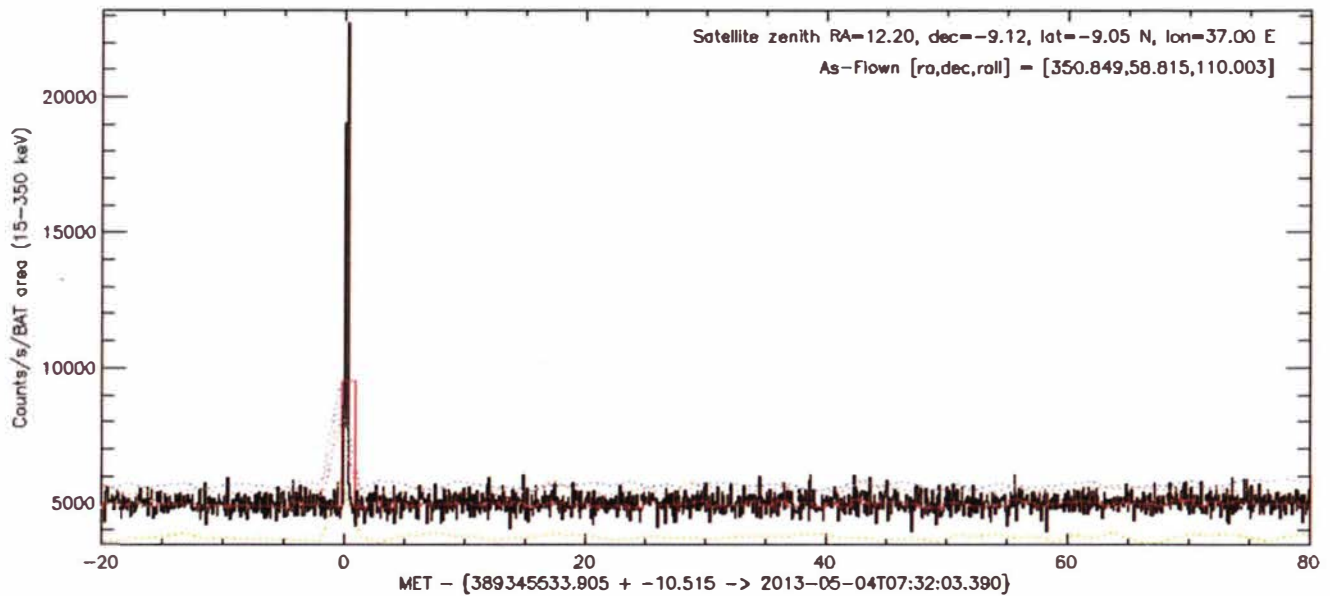
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/4/2013 5:06 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130504_0732.png



```
% /usr/local/bin/swinfo -o 389345533.905
Time(MET + UTCF -> UT): 389345533.905 + -10.515 -> 2013-05-04T07:32:03.390
YYMMDD_SOD: 130504_27123.390 DOY=124
Swift Zenith(RA,dec): 12.20, -9.12
Swift Location(lon,lat,alt): 37.00 E, -9.05 N, 587 km
Obs Sequence Number: 00050400132
Obs Target Name: Cas A
Obs Date and Times: 2013-05-04 07:19:51 - 07:34:47
Obs Pointing(ra,dec,roll): 350.849, 58.815, 110.00
```

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

lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130504_0732.png	11.5 KB
/tmp/130504_0732_bat64ms_ipn	87.1 KB

B

23/10/13

MESSENGER

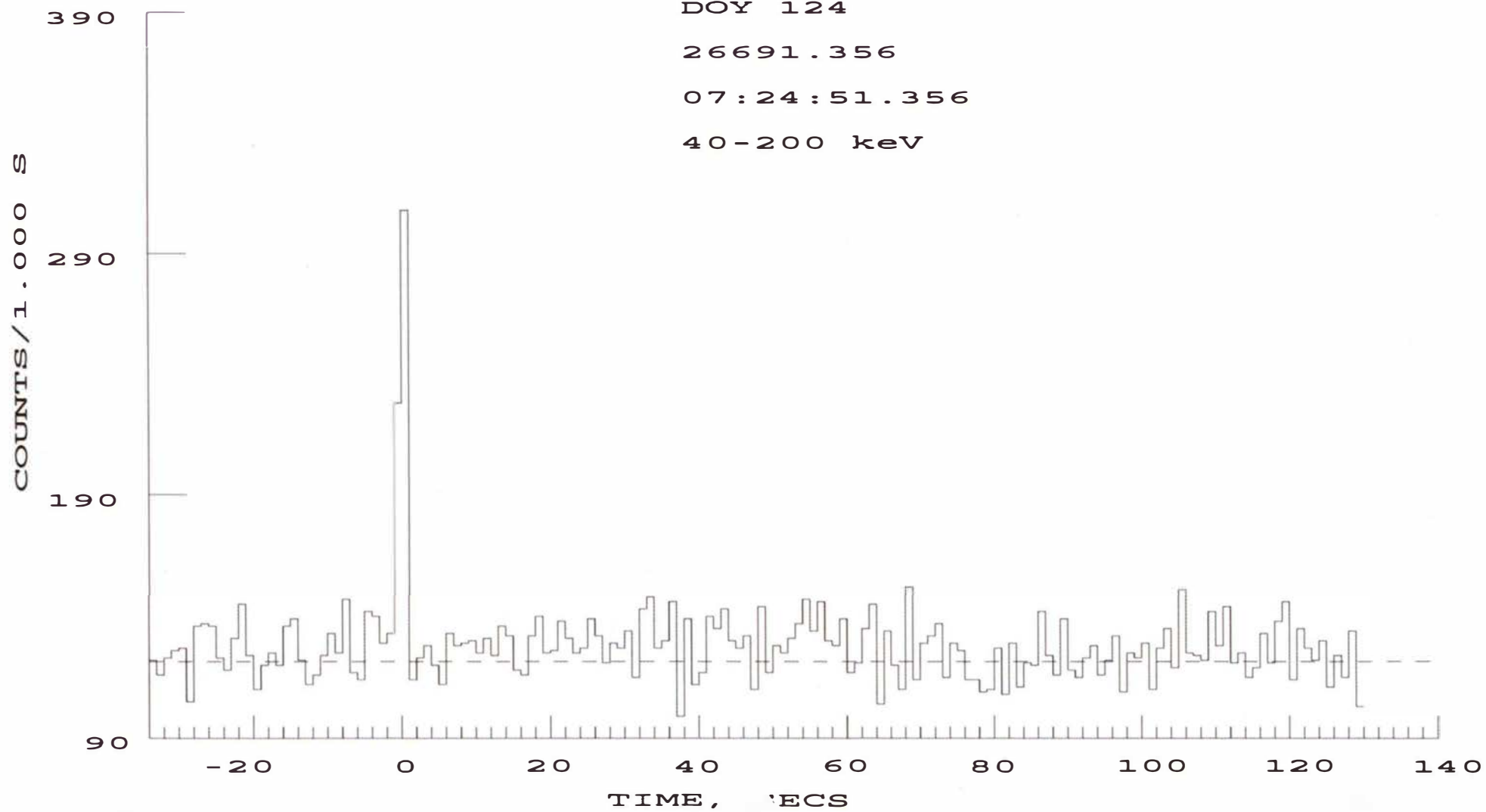
04/05/13

DOY 124

26691.356

07:24:51.356

40-200 keV



SUZAKU

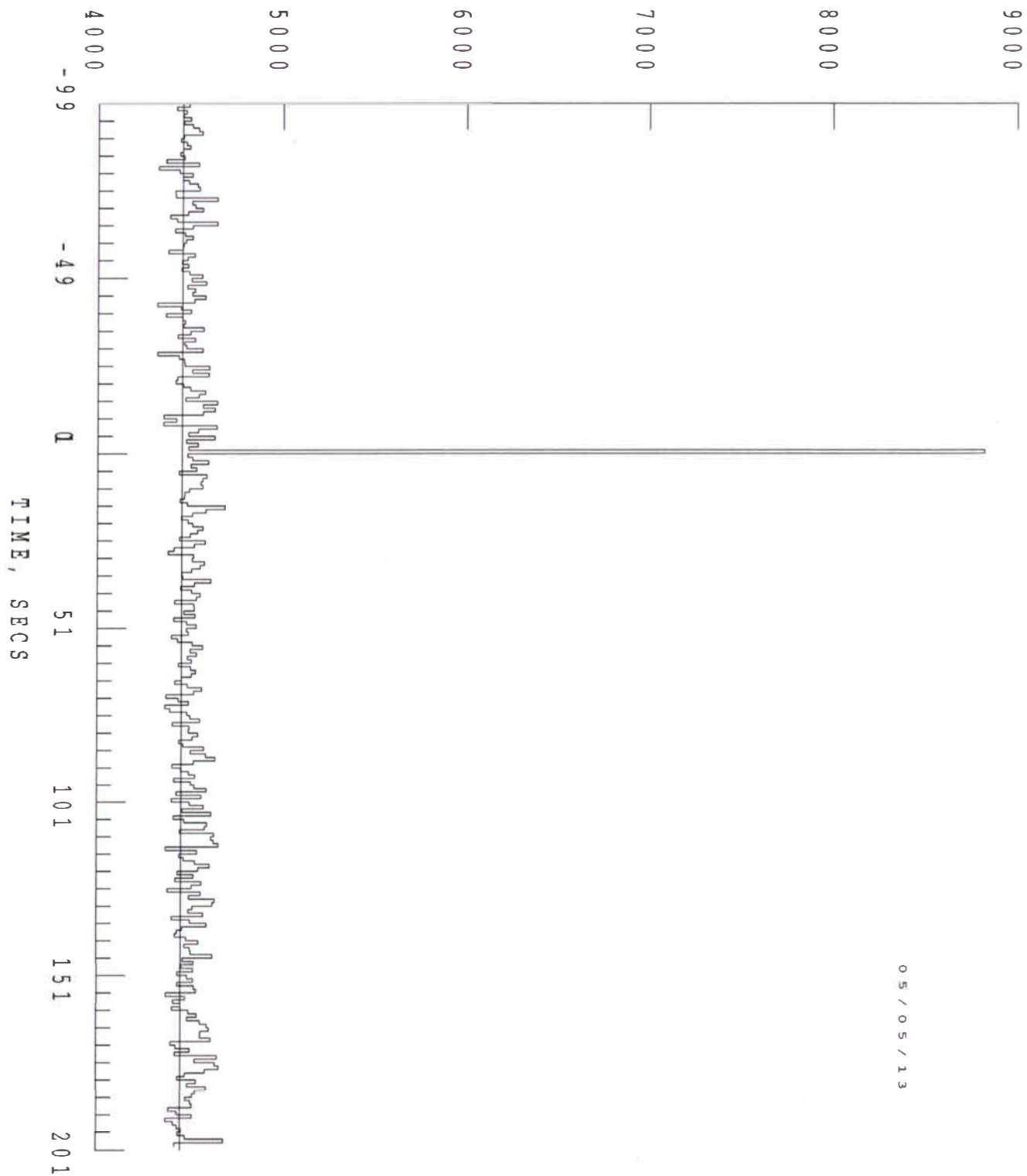
04/05/13

27123.065

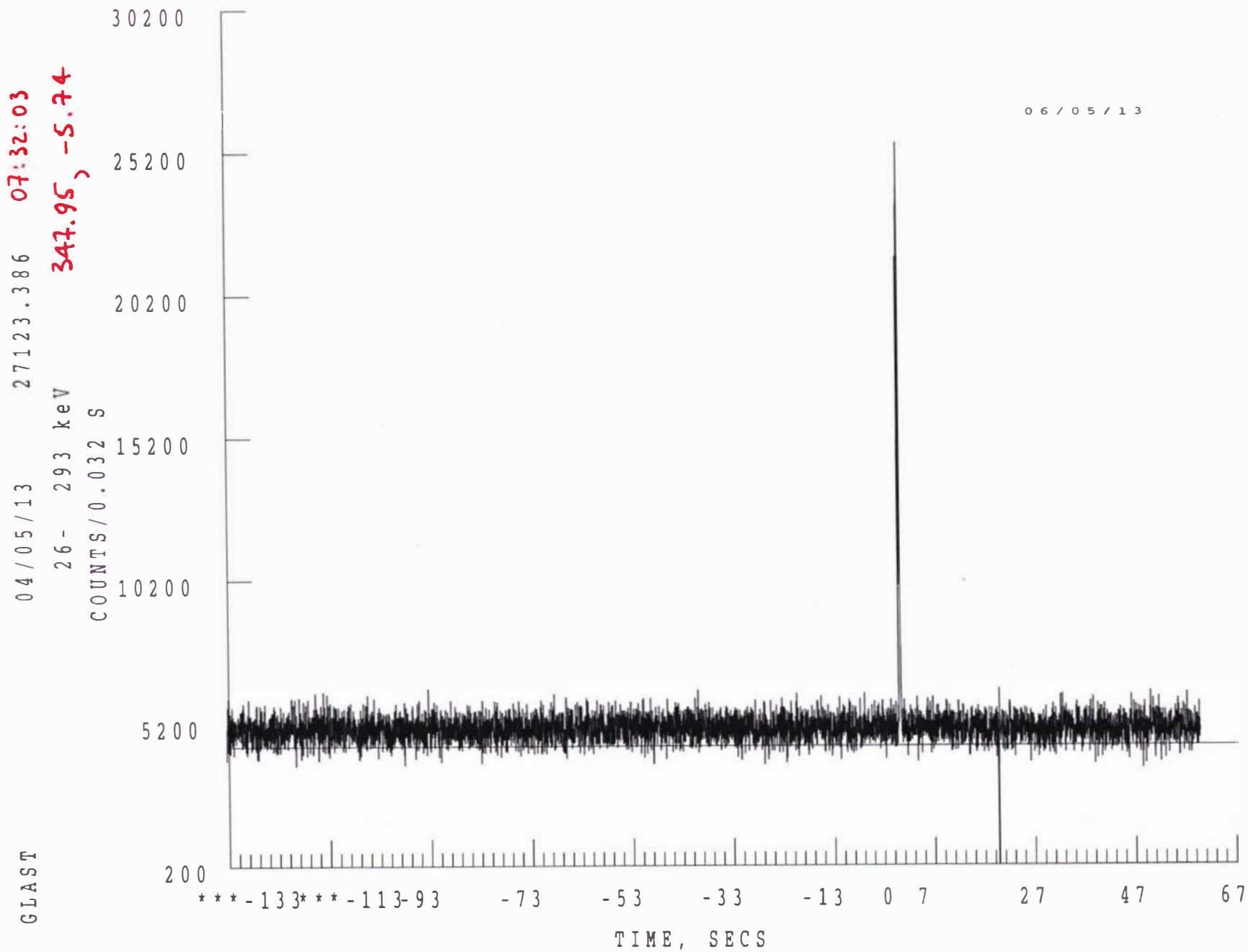
B

50 - 240 keV

COUNTS/1.000 S



B



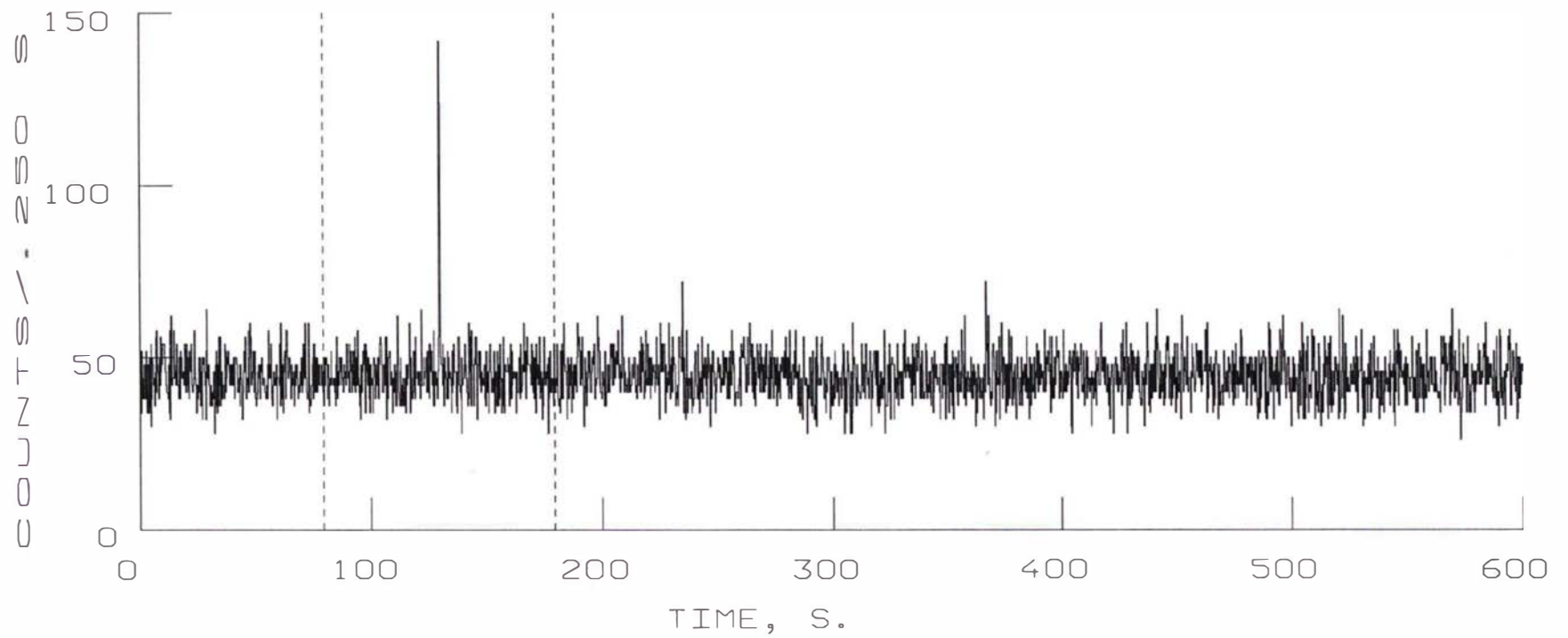
MS01 HEND

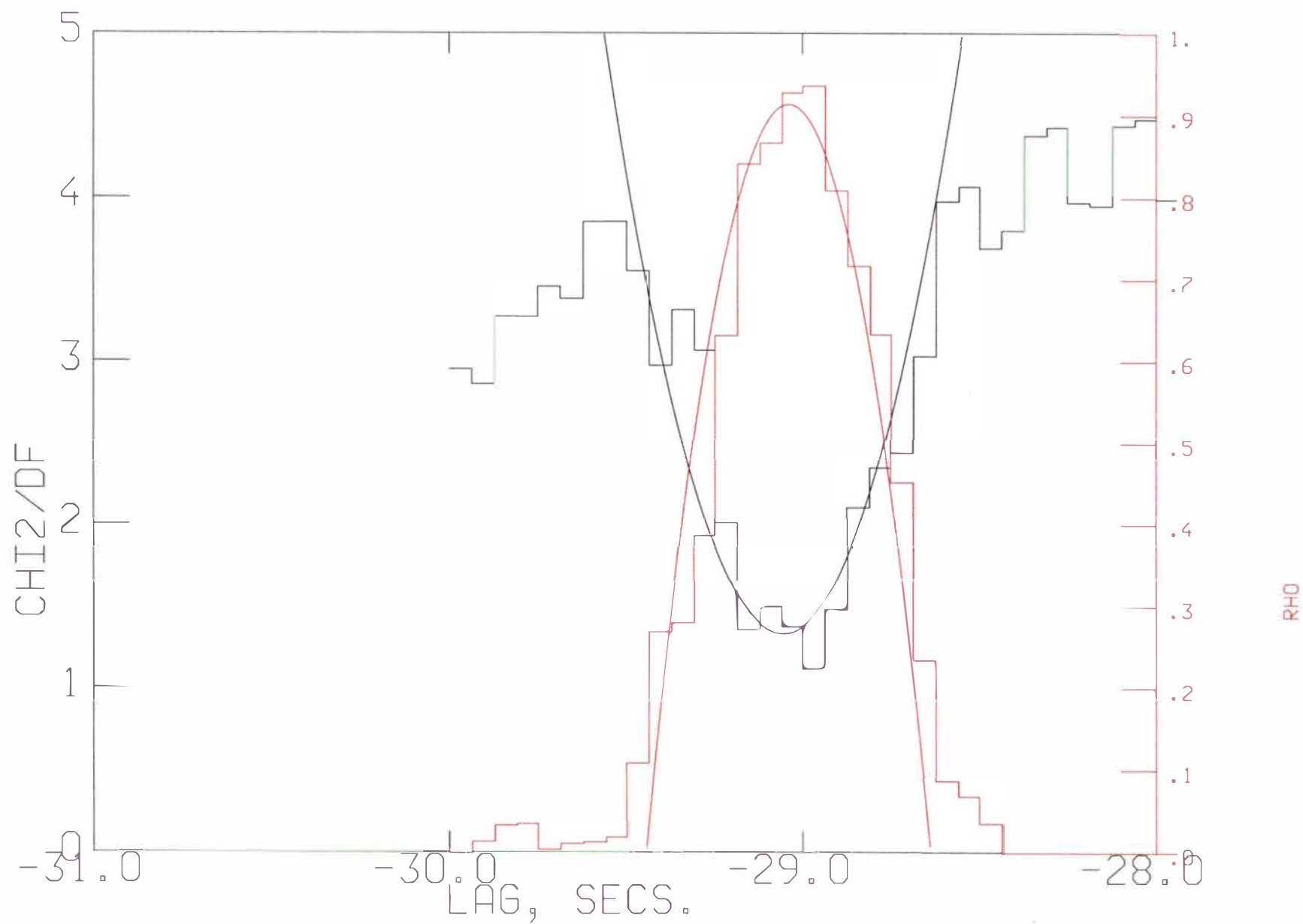
28/04/2015

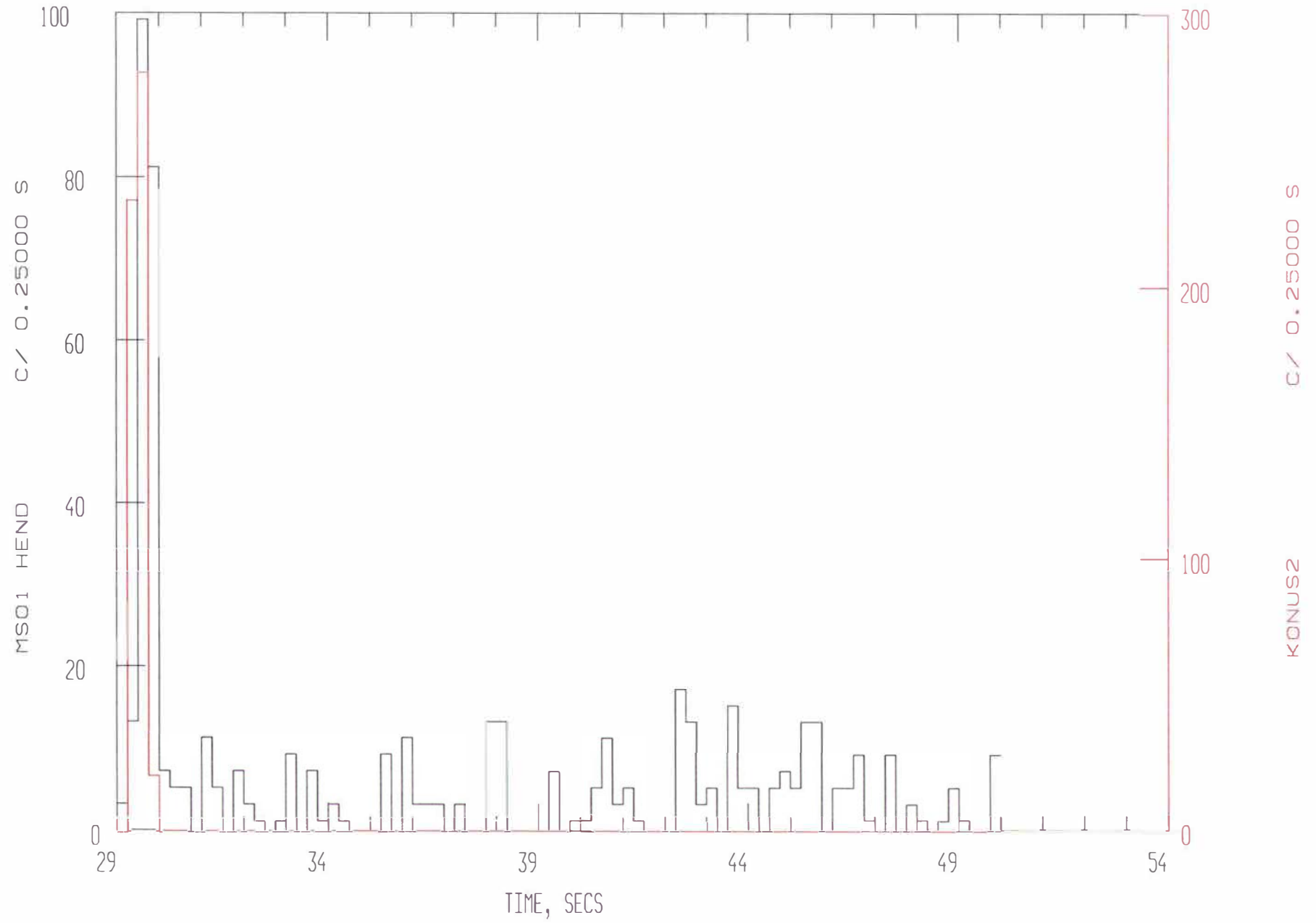
04/05/2013 26265.174 s

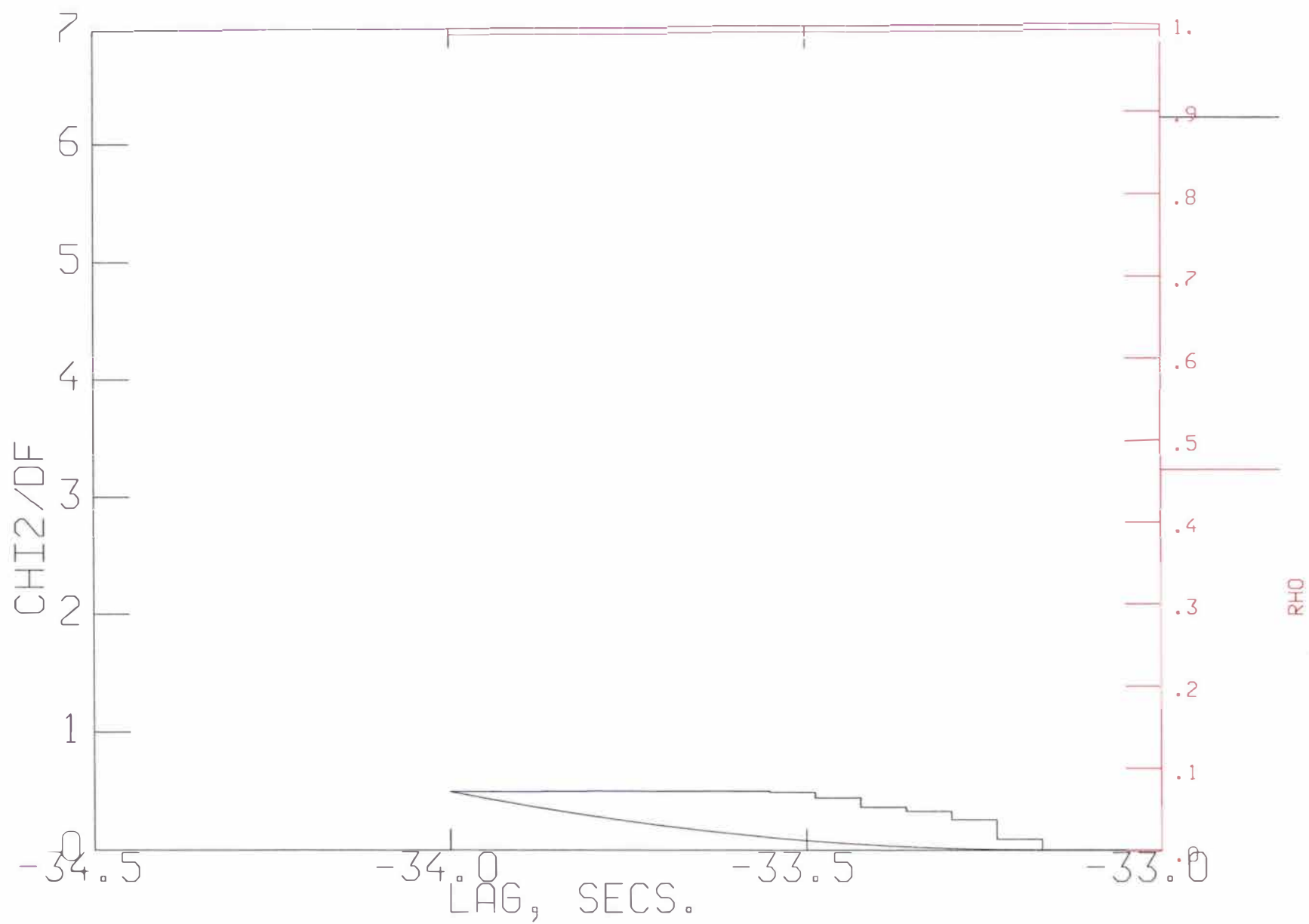
50-3000 keV

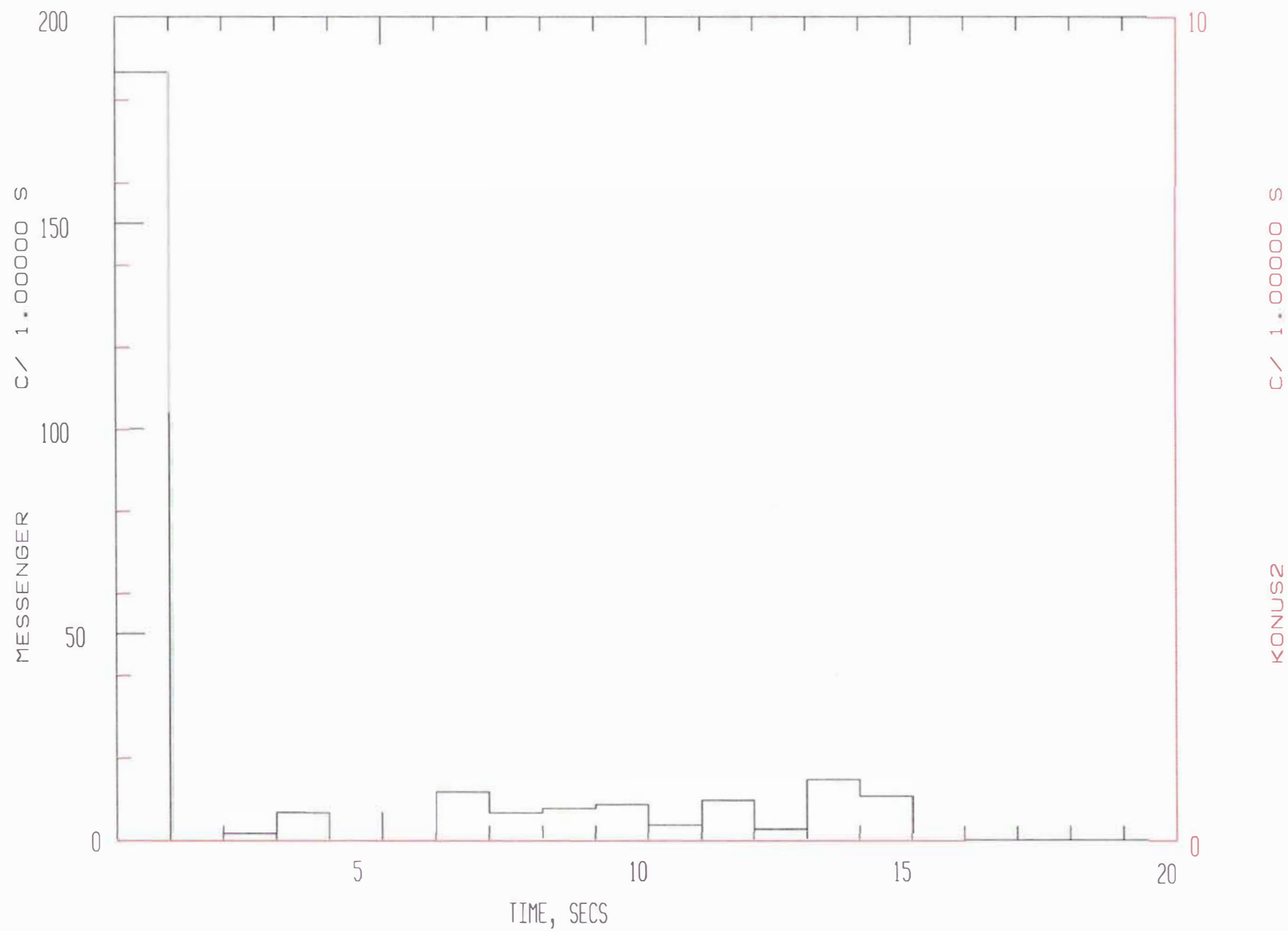
N= 10 M= 1
>4.0 SIGMA FLUCTUATIONS

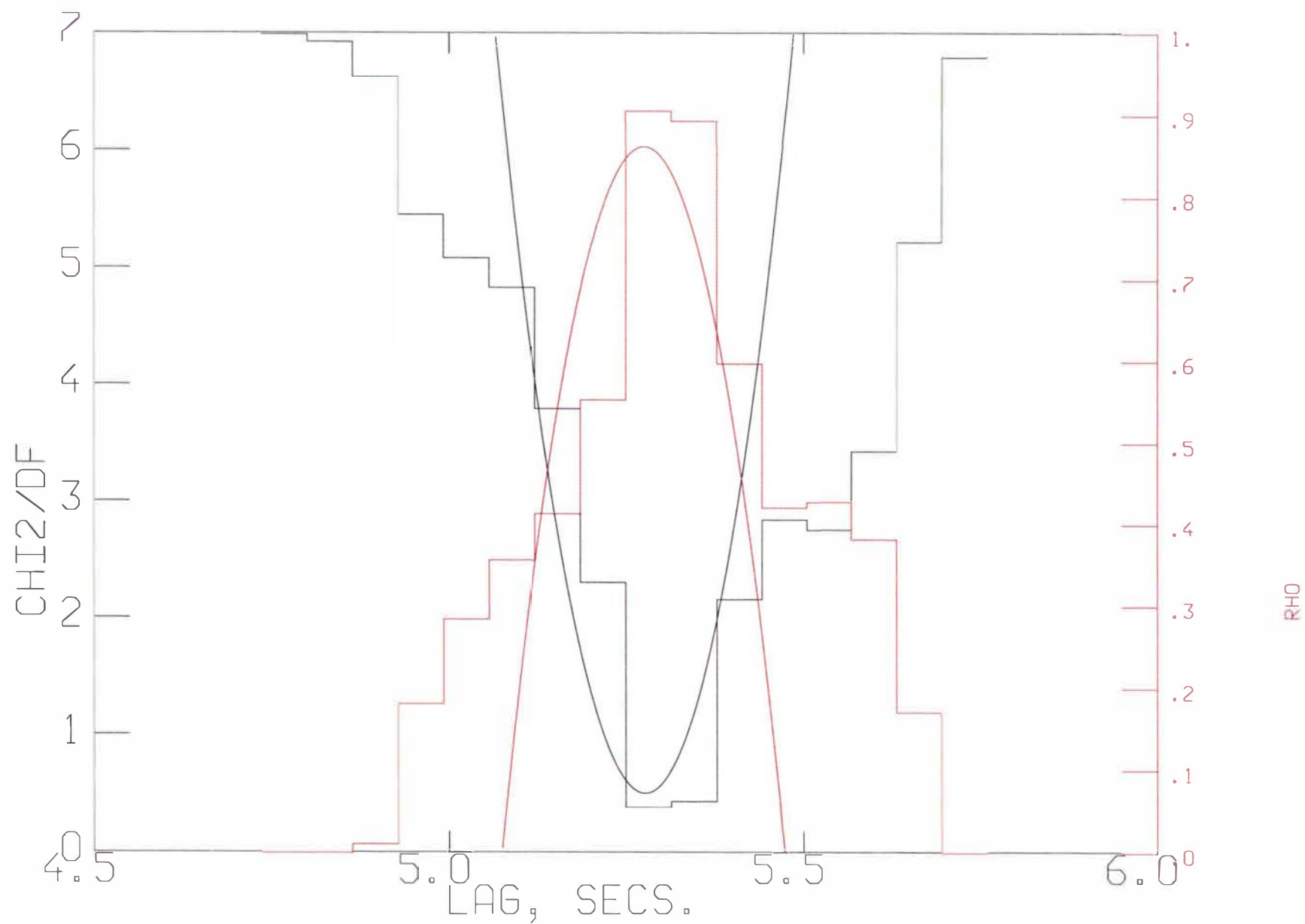












KONUS2

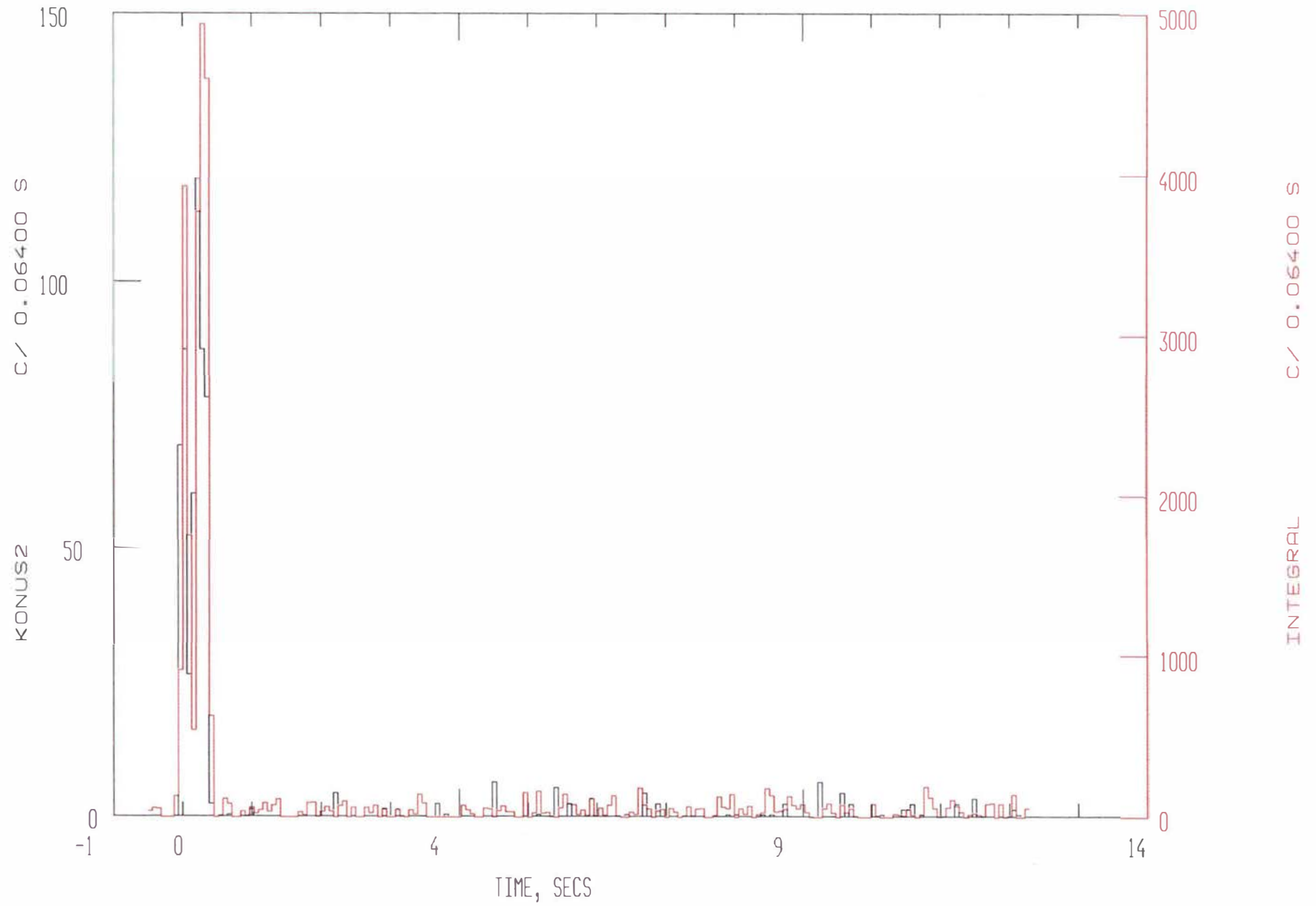
-INTEGRAL

CORRELATION

04/05/13

27119.723

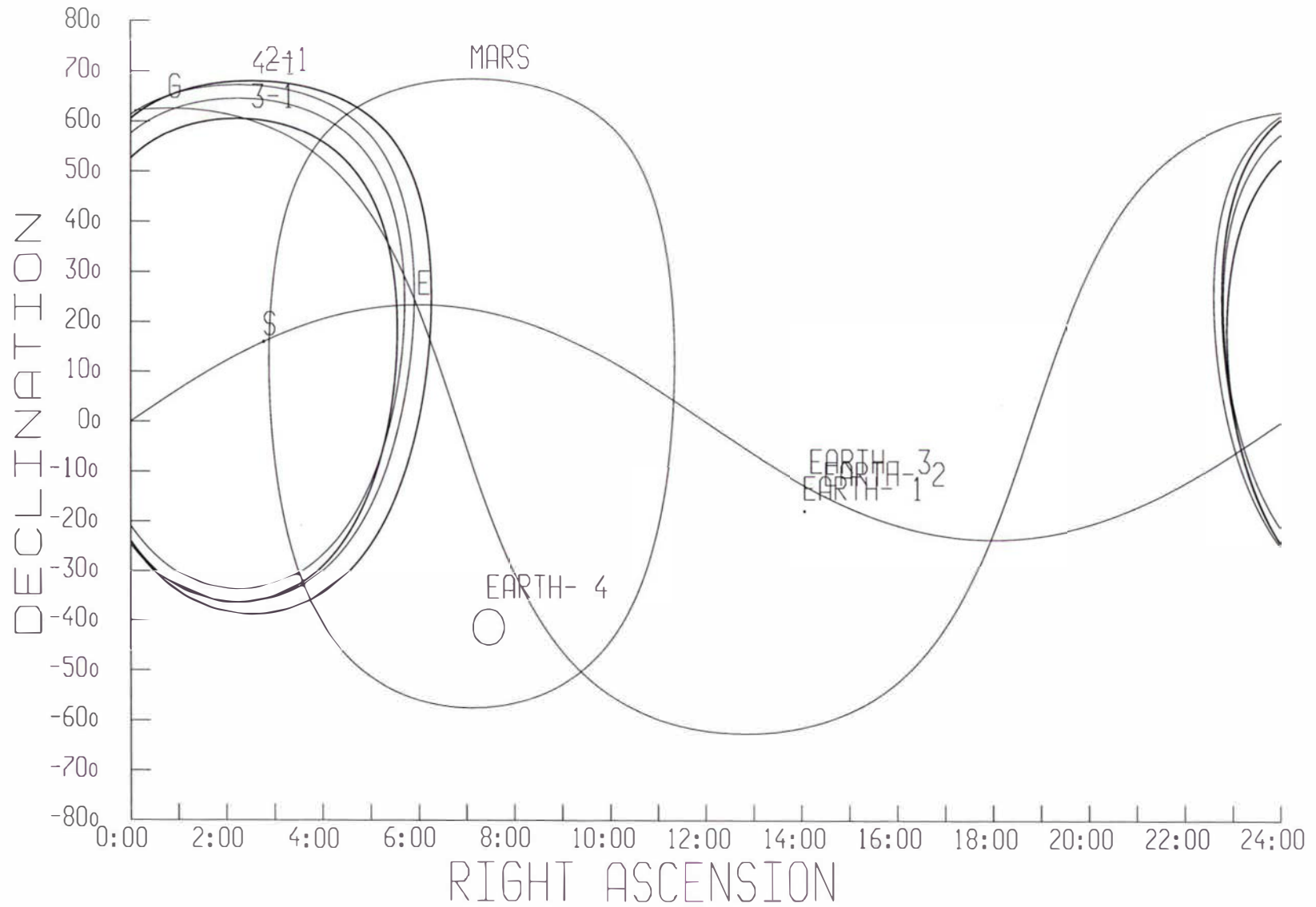
28/ 4/15



EVENT OF MAY 4, 2013 7:31

28/04/2015

N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN
 1 KONUS2 2 MO 3 MESSENGER 4 INTEGRAL
 E=ECLIPTIC G=GALACTIC EQUATOR



SUZAKU

04/05/13

31675.062

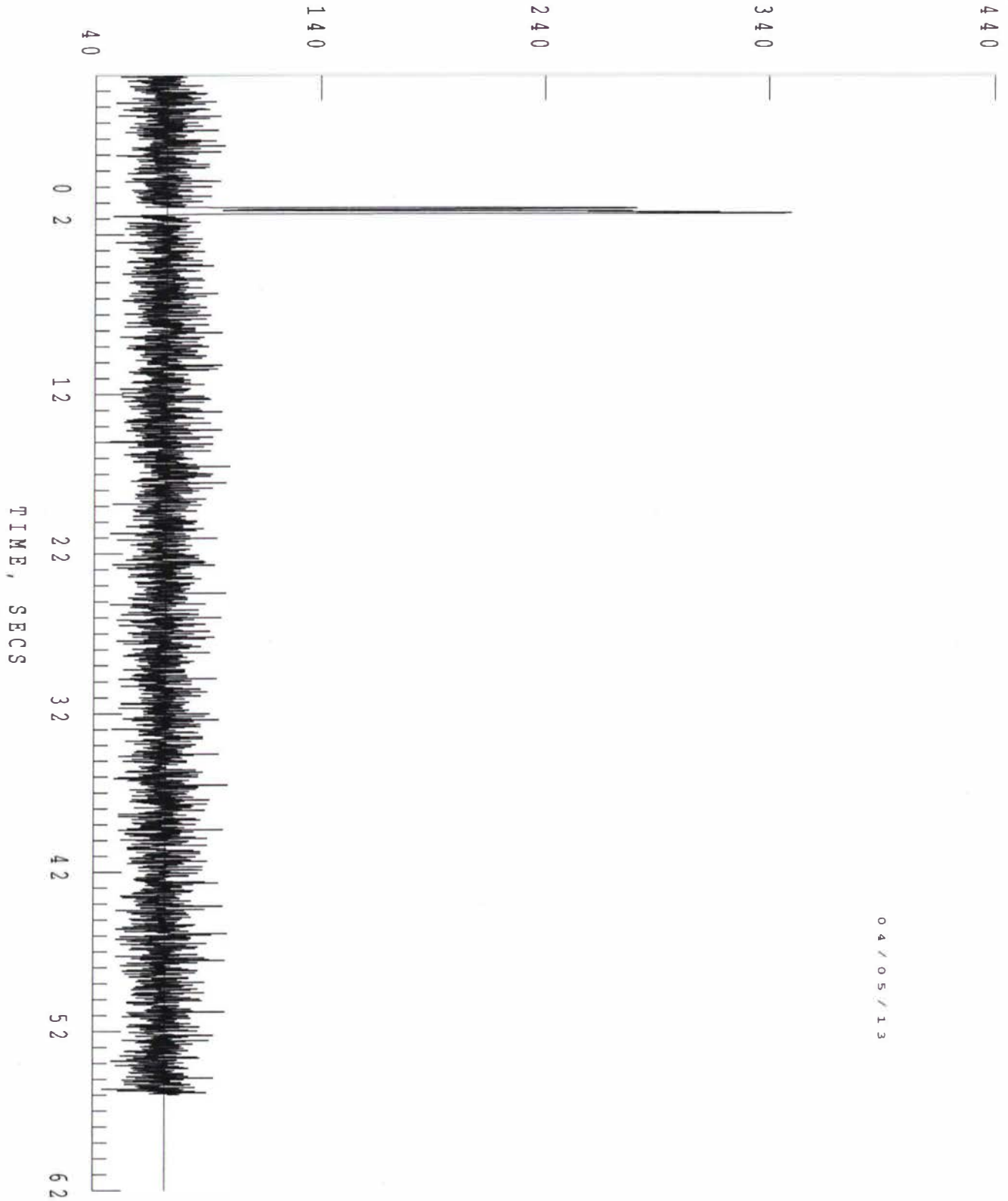
C

50 - 240 keV

08:47:55

Not in list

COUNTS/0.016 S



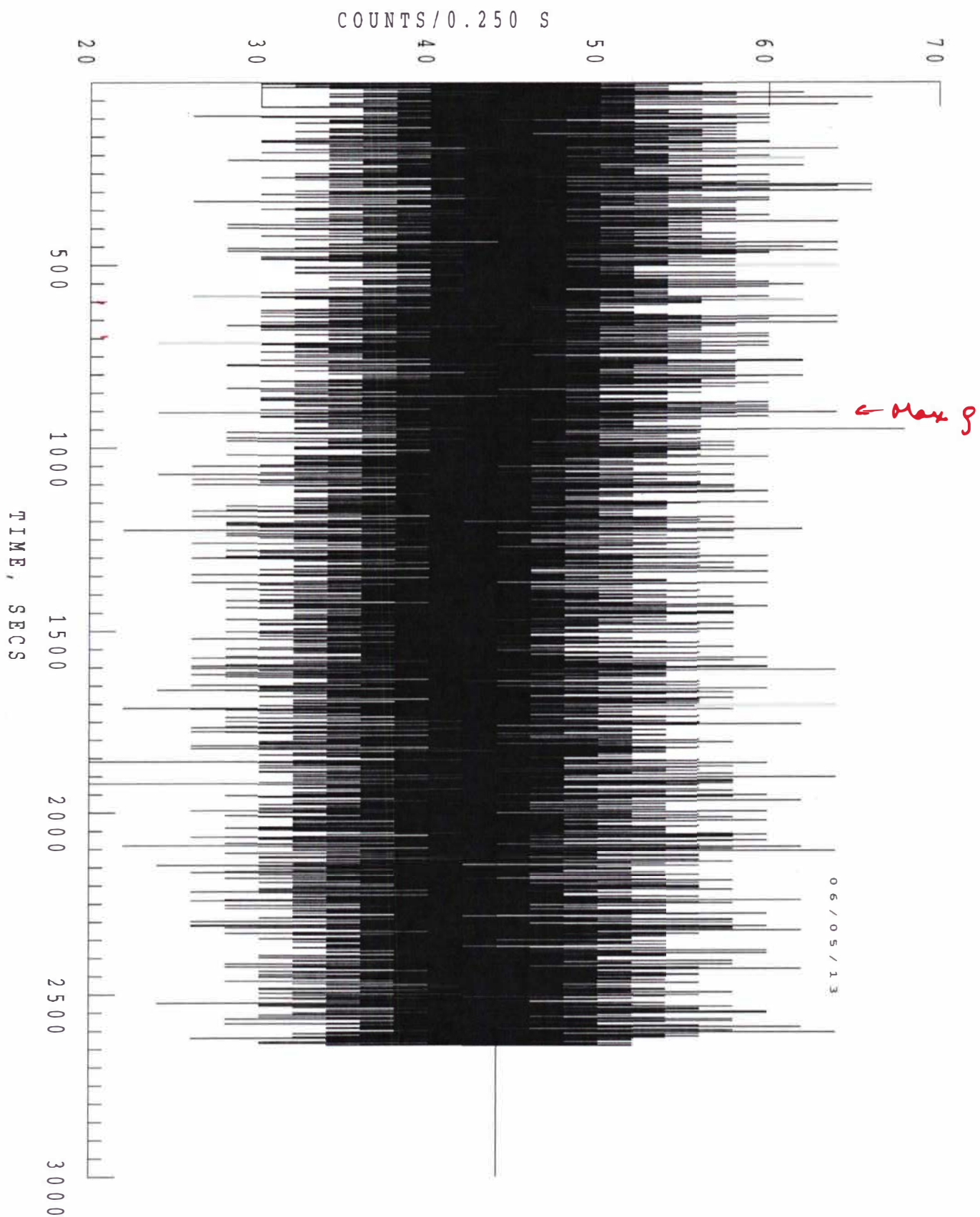
MS01

04/05/13

30345.101

50 - 3000 keV

C



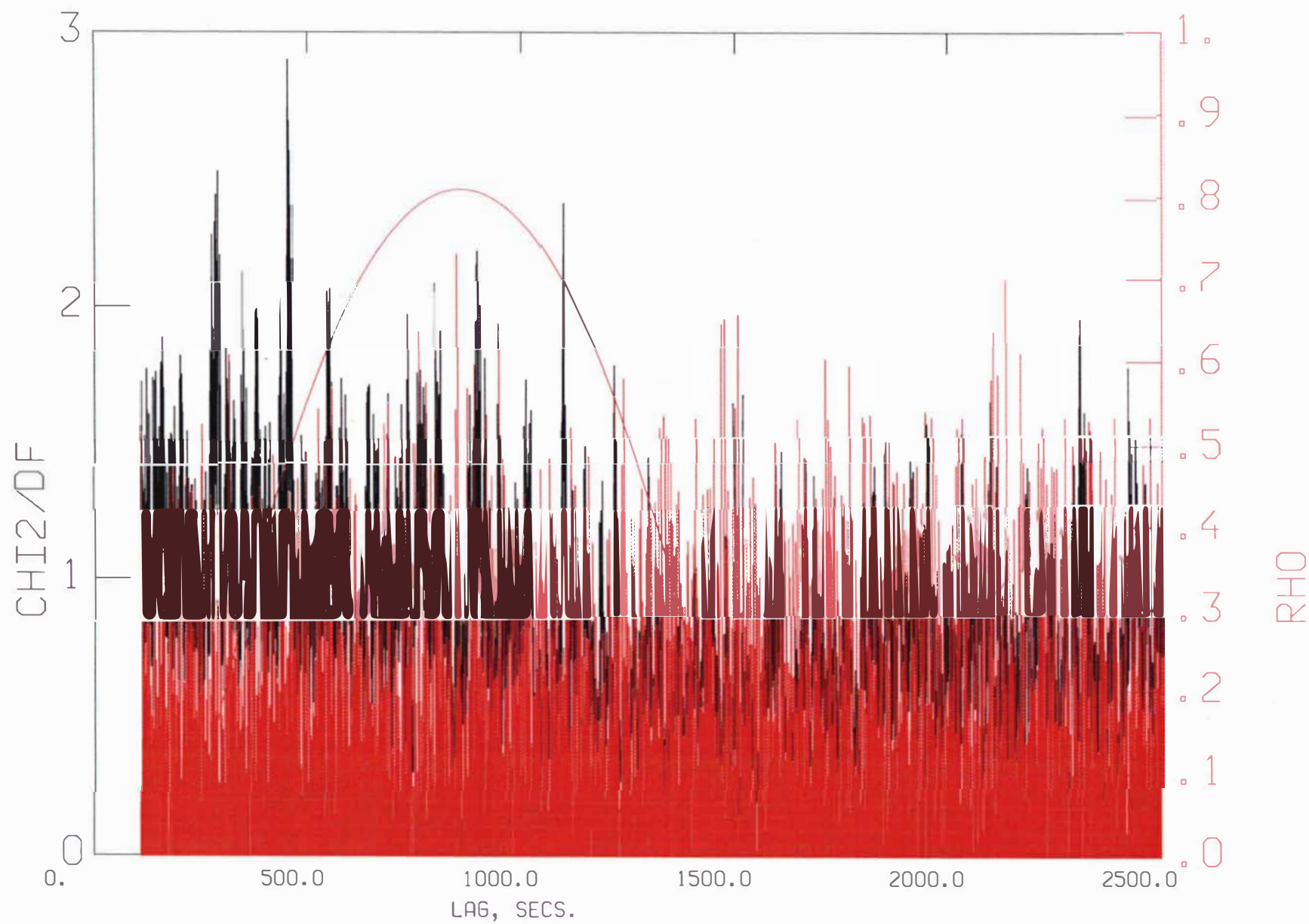
SUZAKU

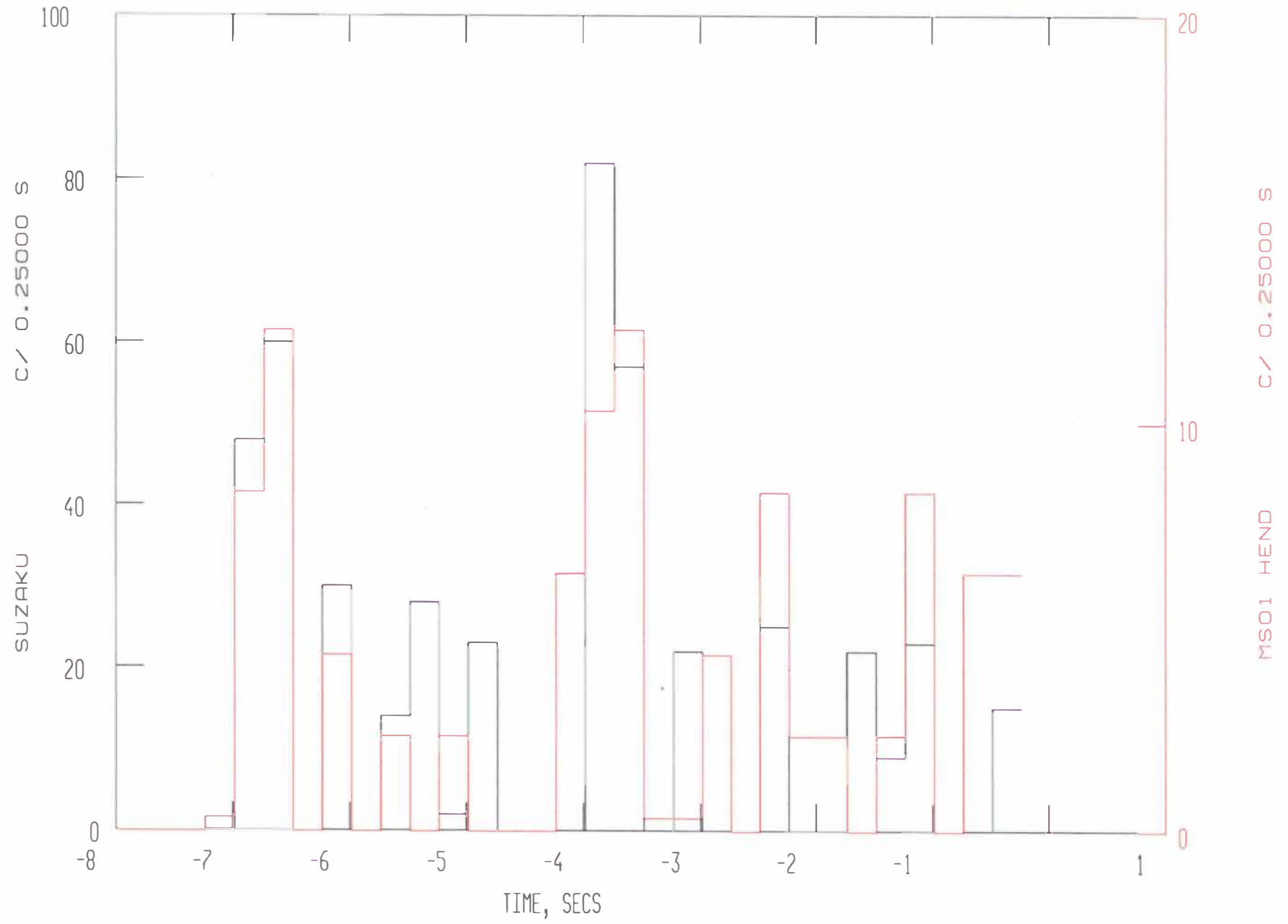
-MS01 HEND CORRELATION

04/05/13

31675.062

23/10/13



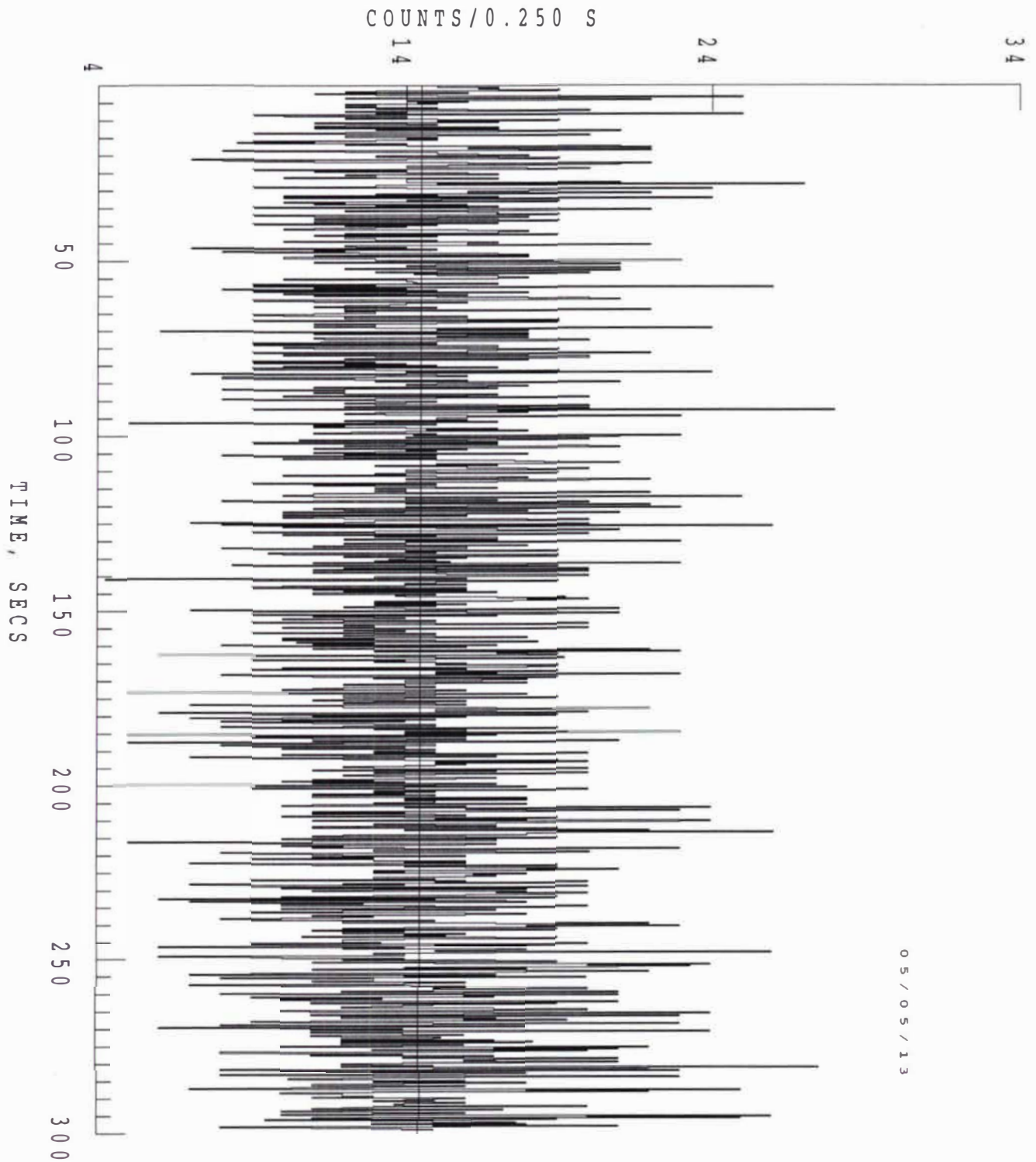


HESSI

04/05/13 31525.000 (SUZAKU_20130504_31675)

25- 150 keV

c



c

Subject: [lpn] BAT lightcurve for trigger at 130504_0847

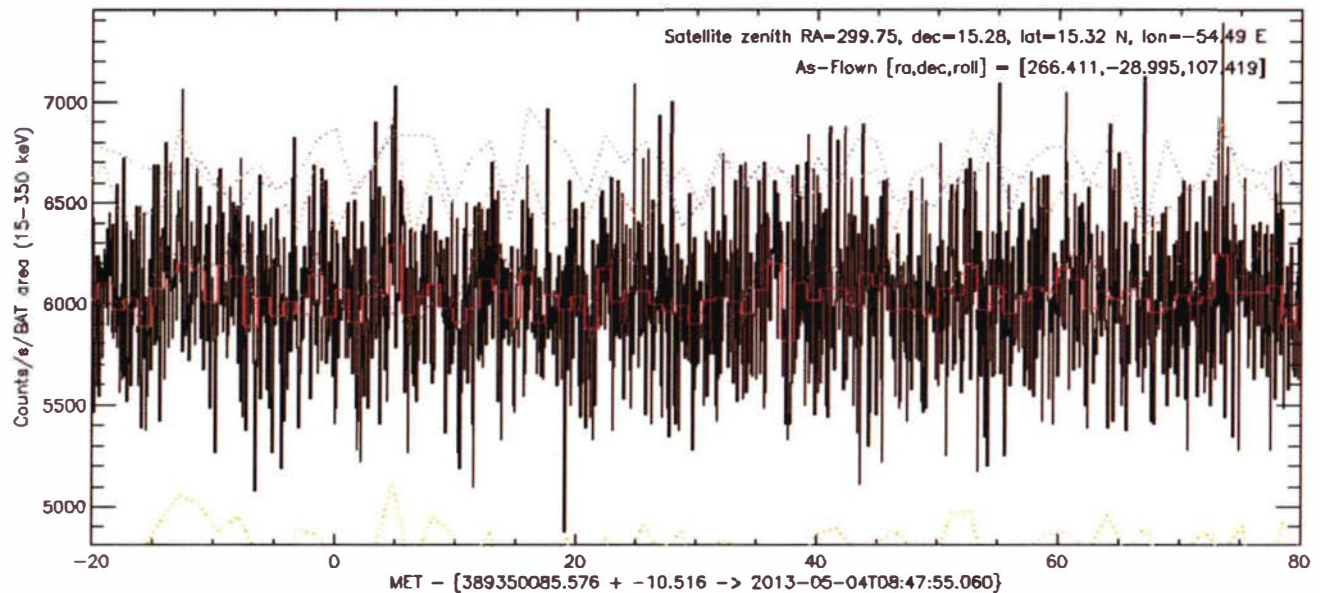
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/4/2013 3:15 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130504_0847.png



```
% /usr/local/bin/swinfo -o 389350085.576
Time(MET + UTCF -> UT): 389350085.576 + -10.516 -> 2013-05-04T08:47:55.060
YYMMDD_SOD: 130504_31675.060 DOY=124
Swift Zenith(RA,dec): 299.75, 15.28
Swift Location(lon,lat,alt): -54.49 E, 15.32 N, 575 km
Obs Sequence Number: 00032811001
Obs Target Name: PSR J1745-2900
Obs Date and Times: 2013-05-04 08:31:51 - 08:58:46
Obs Pointing(ra,dec,roll): 266.411, -28.995, 107.42
```

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

lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130504_0847.png	20.2 KB
/tmp/130504_0847_bat64ms_ipn	87.1 KB

C?

23/10/13

MESSENGER

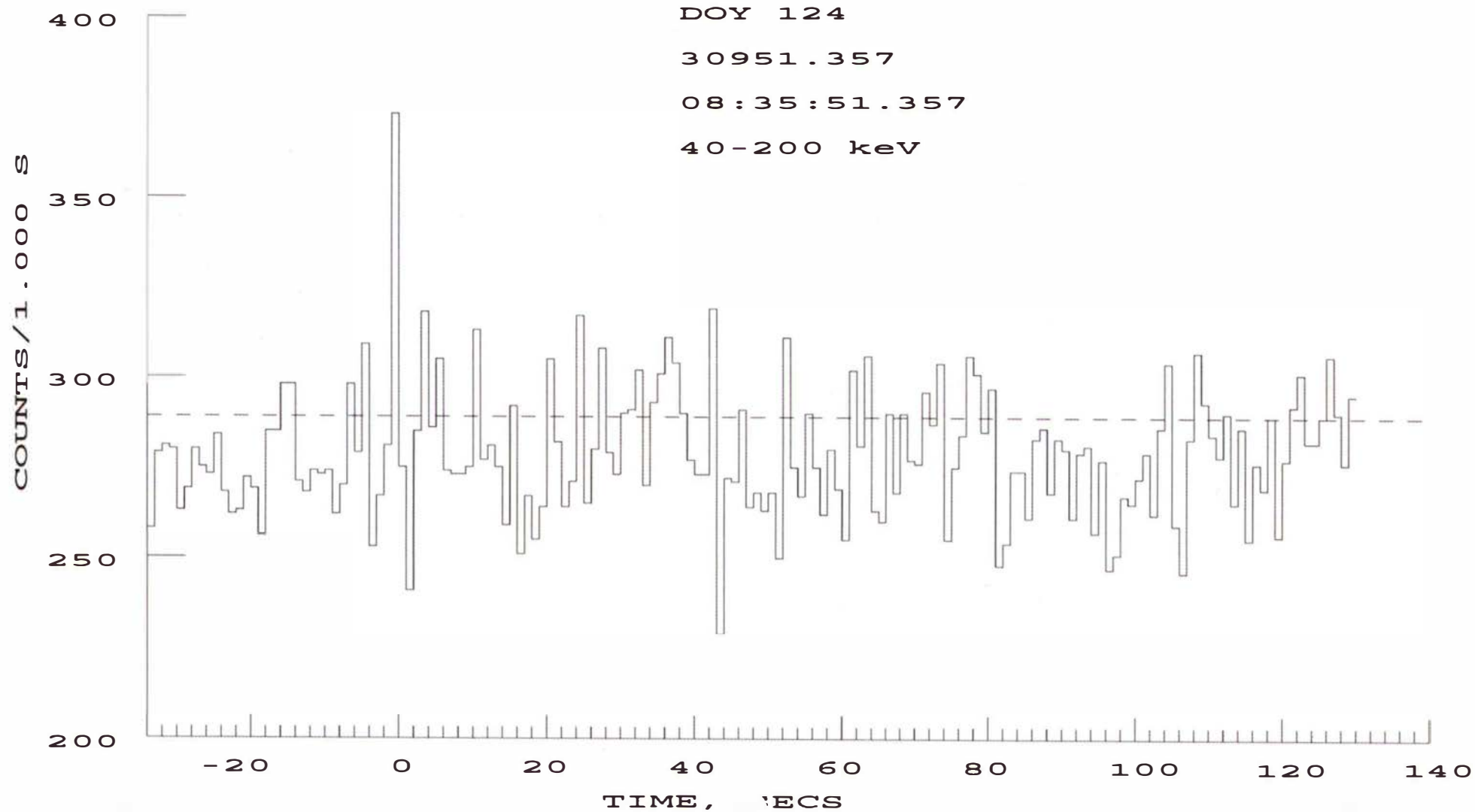
04/05/13

DOY 124

30951.357

08:35:51.357

40-200 keV



From gcncirc@capella2.gsfc.nasa.gov Sun May 5 09:40:16 2013
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 130504C: Fermi-LAT detection of a burst
To: khurley@ssl.berkeley.edu
Date: Sun, 5 May 2013 12:40:15 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

D

74s

$1.34 \times 10^{-4} \text{ erg cm}^{-2}$

43 phot/cm²s

TITLE: GCN CIRCULAR
NUMBER: 14574
SUBJECT: GRB 130504C: Fermi-LAT detection of a burst
DATE: 13/05/05 16:40:11 GMT
FROM: Daniel Kocevski at SLAC <dankocevski@gmail.com>

D. Kocevski (NASA/GSFC), M. Ohno (Hiroshima U.), J. Racusin (NASA/GSFC), G. Vian

At 23:30:15 UT on 04 May 2013, Fermi LAT detected high energy emission from GRB
The best LAT on-ground location is found to be RA=91.715, DEC=3.846 (J2000) with
The burst was about 40 deg from the LAT boresight at the time of the trigger and
A Swift TOO request has been submitted.

A GBM circular is forthcoming.

The Fermi LAT point of contact for this burst is Daniel Kocevski (daniel.kocevsk
ne Fermi LAT is a pair conversion telescope designed to cover the energy band f

Daniel Kocevski
NASA Goddard Space Flight Center
www.kocevski.com
510.316.3208

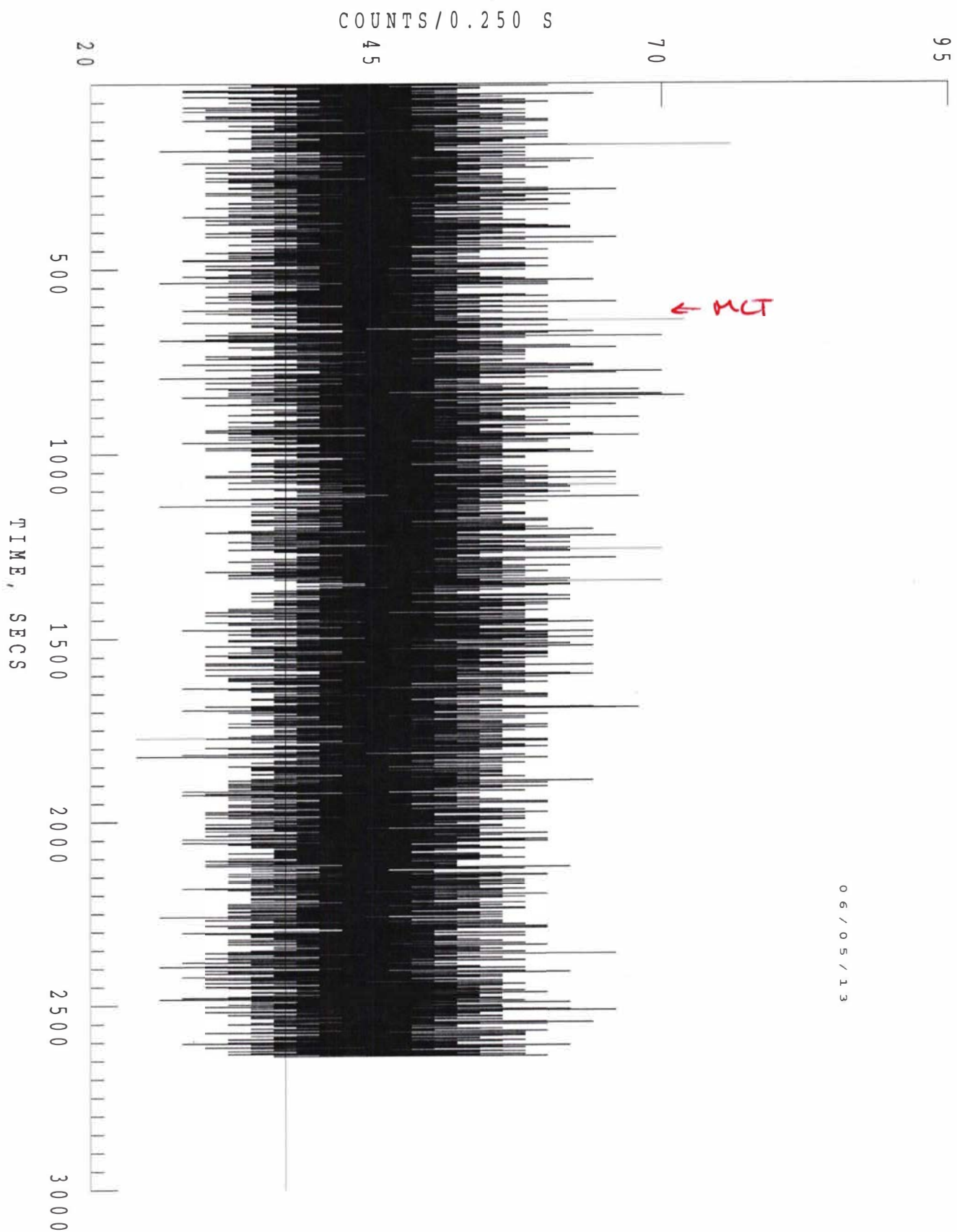
MS01

04/05/13

83204.228

D

50 - 3000 keV



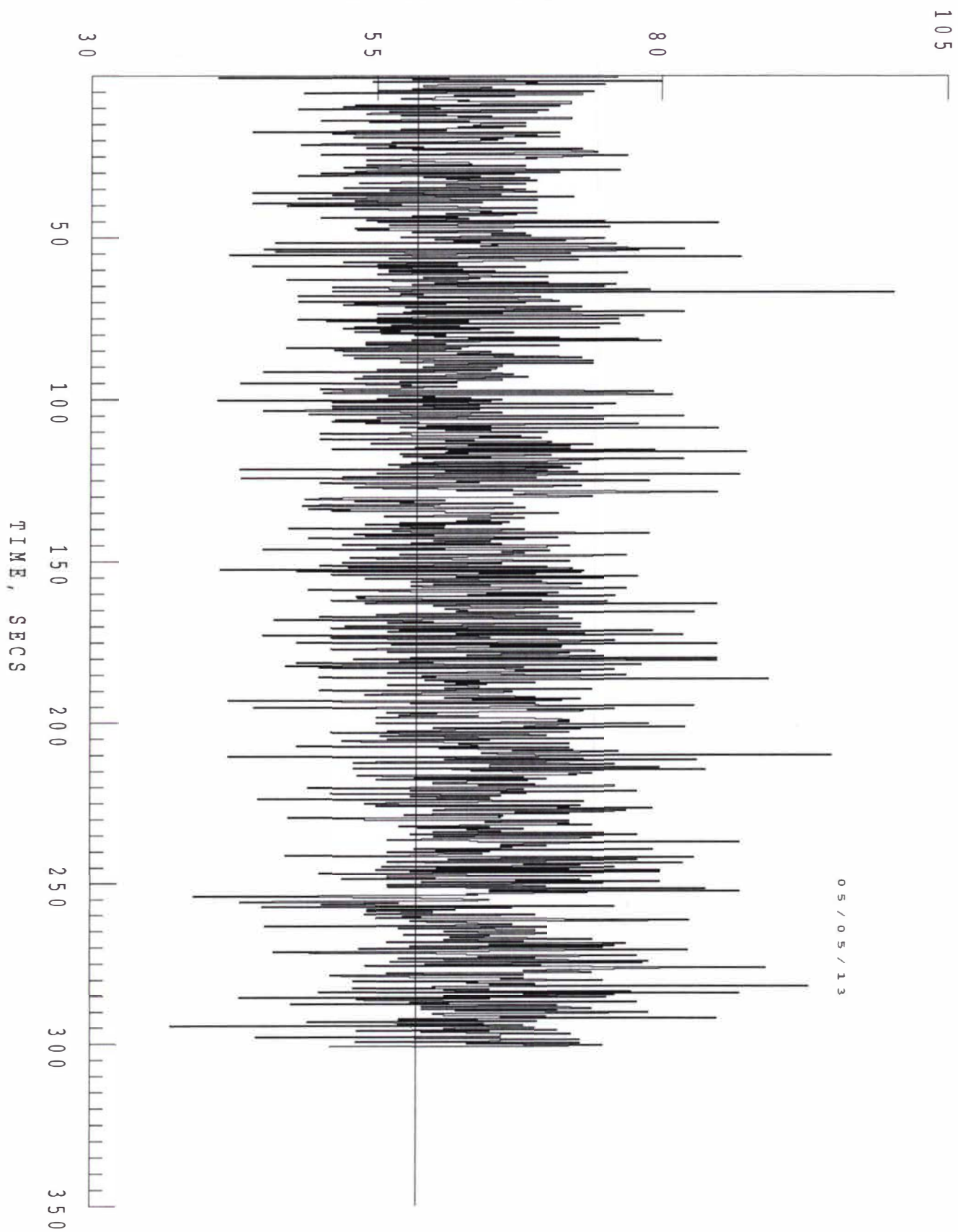
HESSI

04/05/13 84387.000 (INTEGRAL_20130504_84538)

D

25- 150 keV

COUNTS/0.250 S



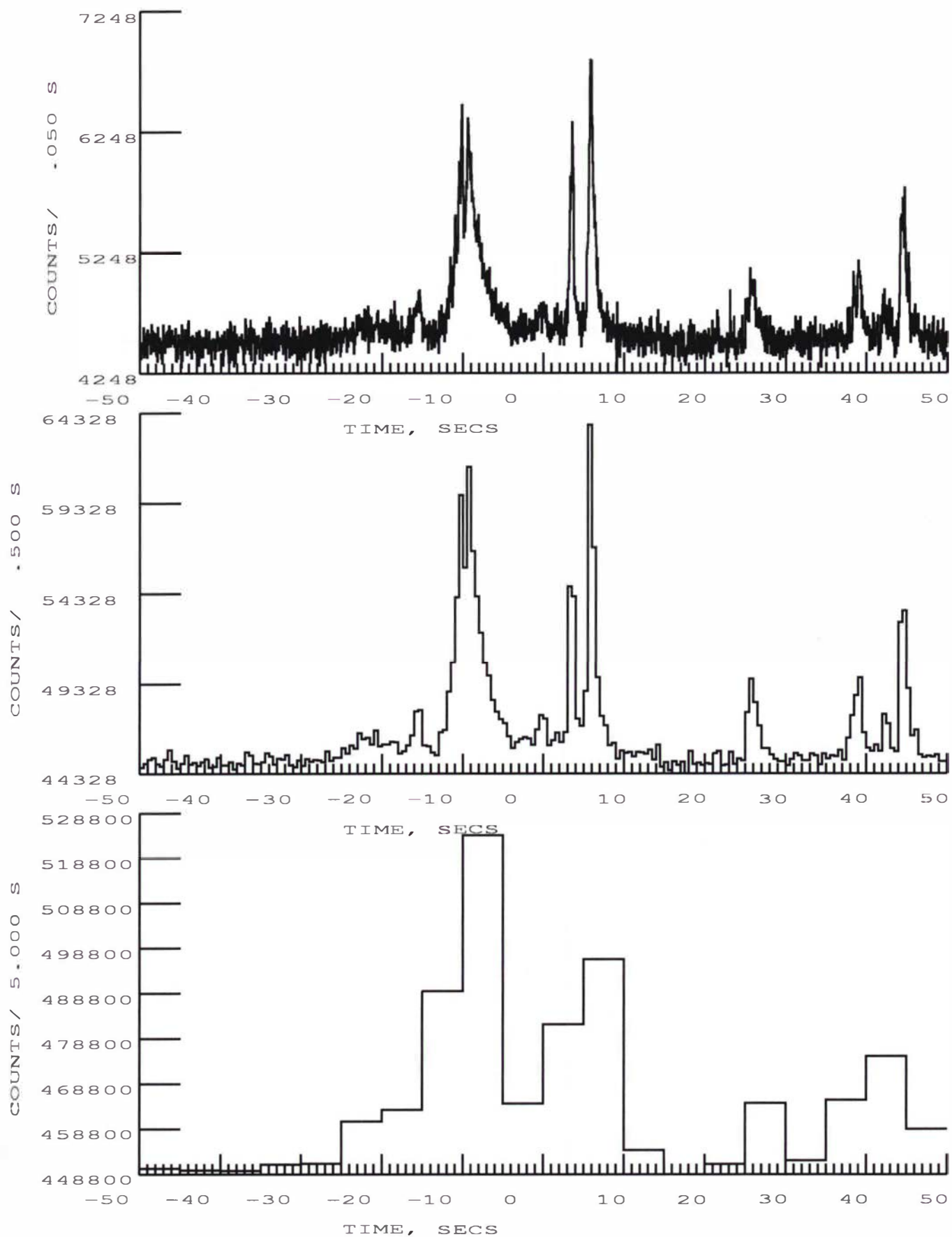
INTEGRAL

04/05/13

84563.000

23:29:23.0

09/10/15



Subject: [Ipn] BAT lightcurve for trigger at 130504_2328

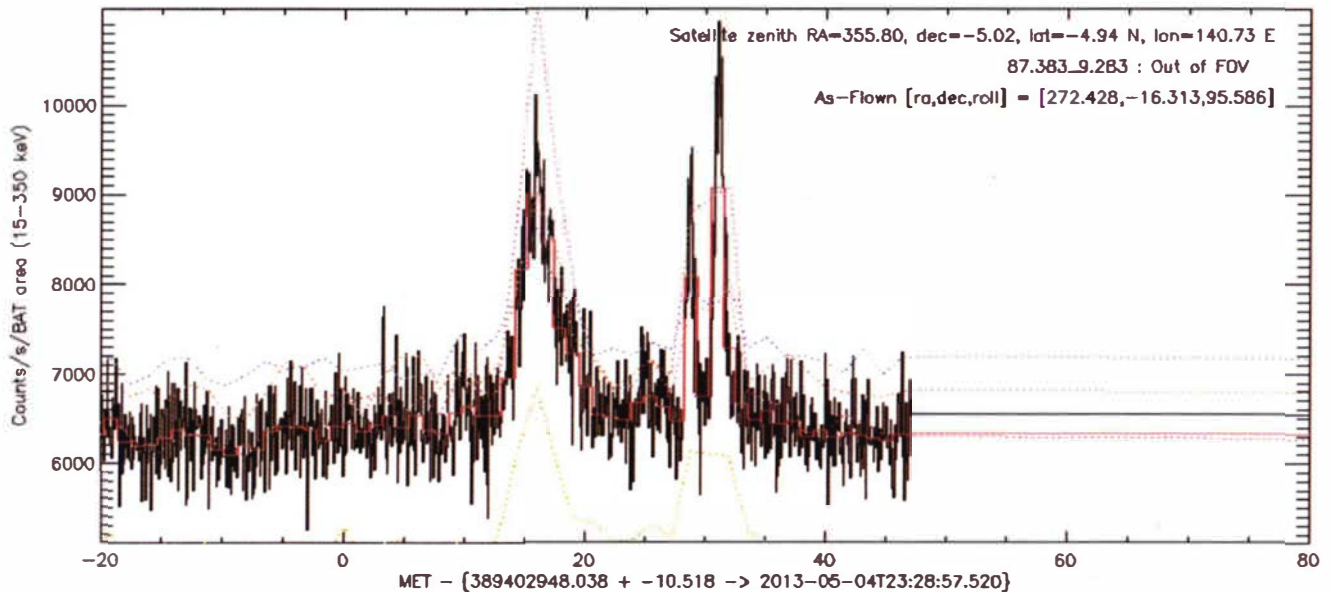
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/4/2013 11:56 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130504_2328.png



```
% /usr/local/bin/swinfo -o 389402948.038 -s 87.383_9.283
Time(MET + UTCF -> UT): 389402948.038 + -10.518 -> 2013-05-04T23:28:57.520
YYMMDD_SOD: 130504_84537.520 DOY=124
Swift Zenith(RA,dec): 355.80, -5.02
Swift Location(lon,lat,alt): 140.73 E, -4.94 N, 585 km
Obs Sequence Number: 00555096001
Obs Target Name: N/A
Obs Date and Times: 2013-05-04 23:05:51 - 23:29:42
Obs Pointing(ra,dec,roll): 272.428, -16.313, 95.59
87.383_9.283_imageloc (boresight_dist, angle): (171, -41)
87.383_9.283_exposure (cm^2 cos adjusted): 0
87.383_9.283_altitude: 21 (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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130504_2328_bat64ms_ipn

31.1 KB

/tmp/130504_2328.png

14.8 KB

SUZAKU

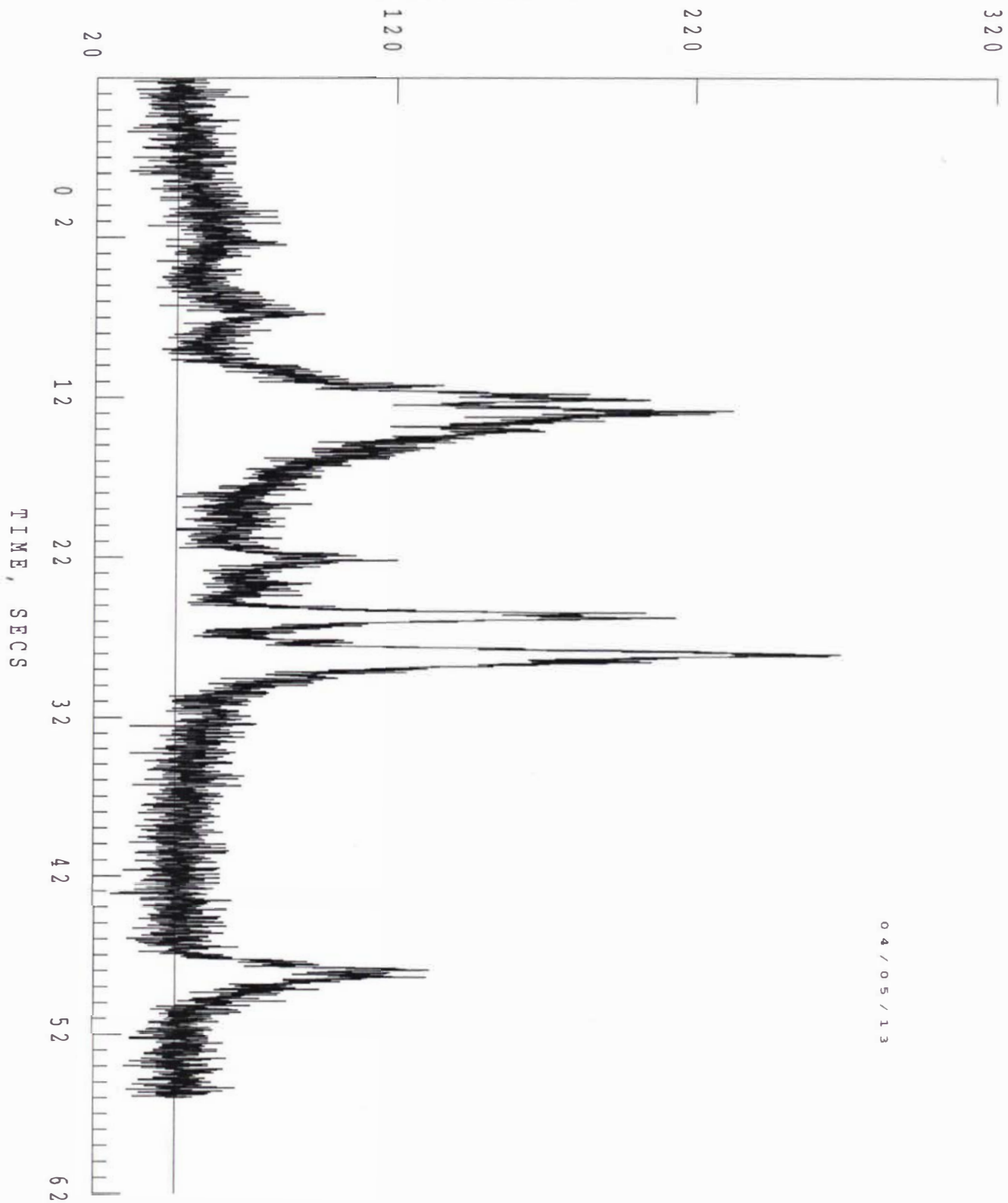
04/05/13

84540.540

D

50 - 240 keV

COUNTS/0.016 S



04/05/13

D

23/10/13

MESSENGER

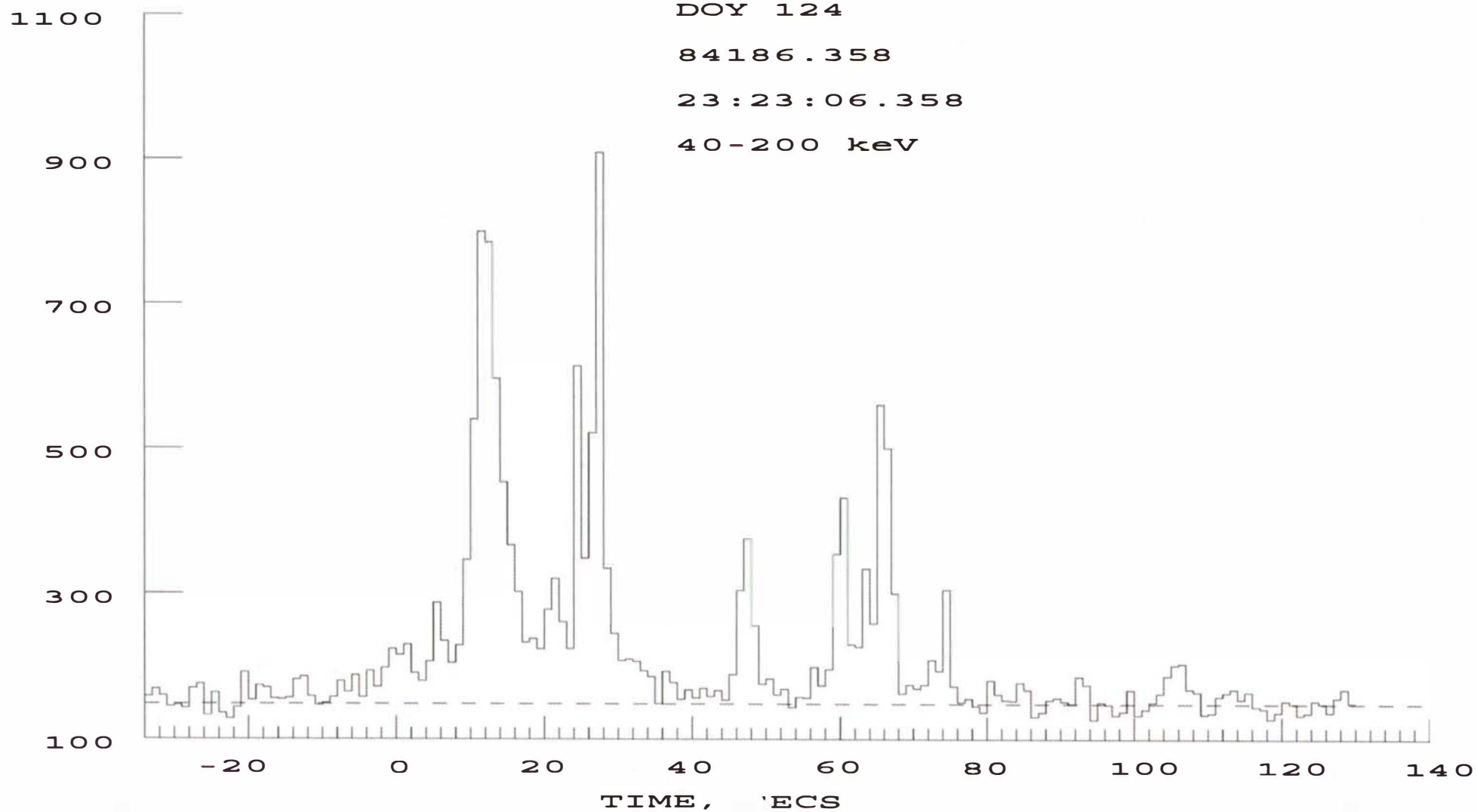
04/05/13

DOY 124

84186.358

23:23:06.358

40-200 keV



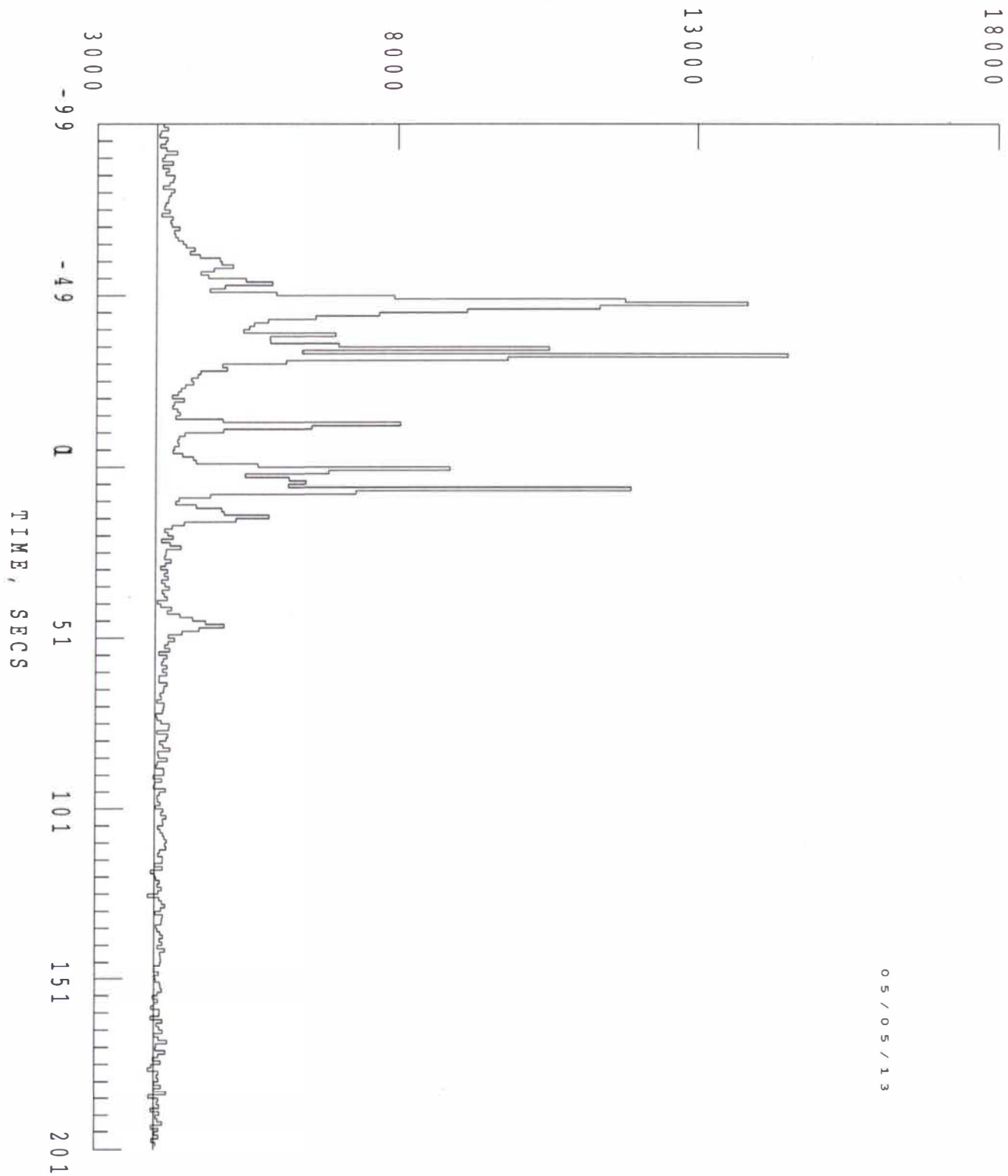
SUZAKU

04/05/13

84600.042

D

50 - 240 keV
COUNTS/1.000 S



GLAST

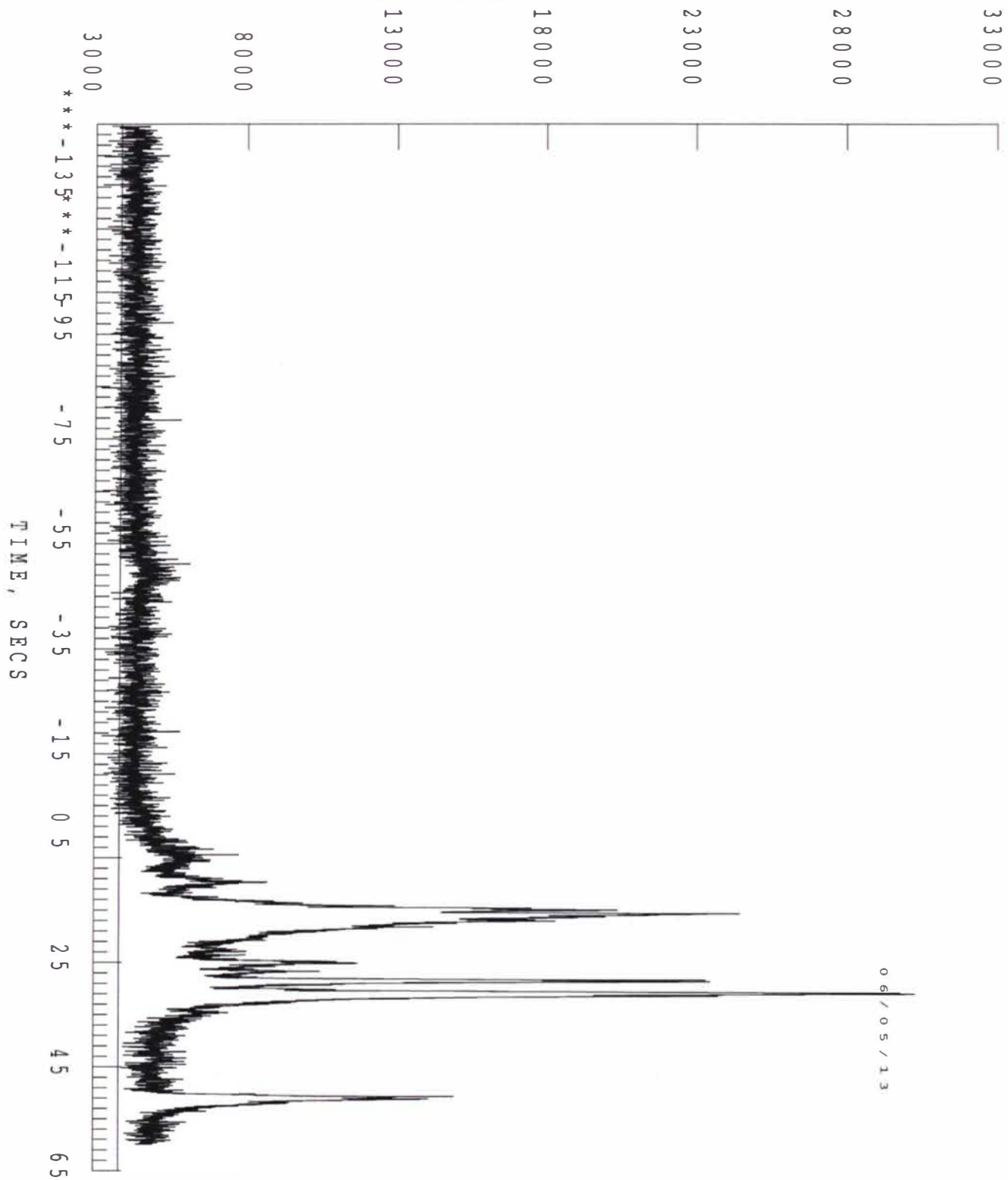
04/05/13

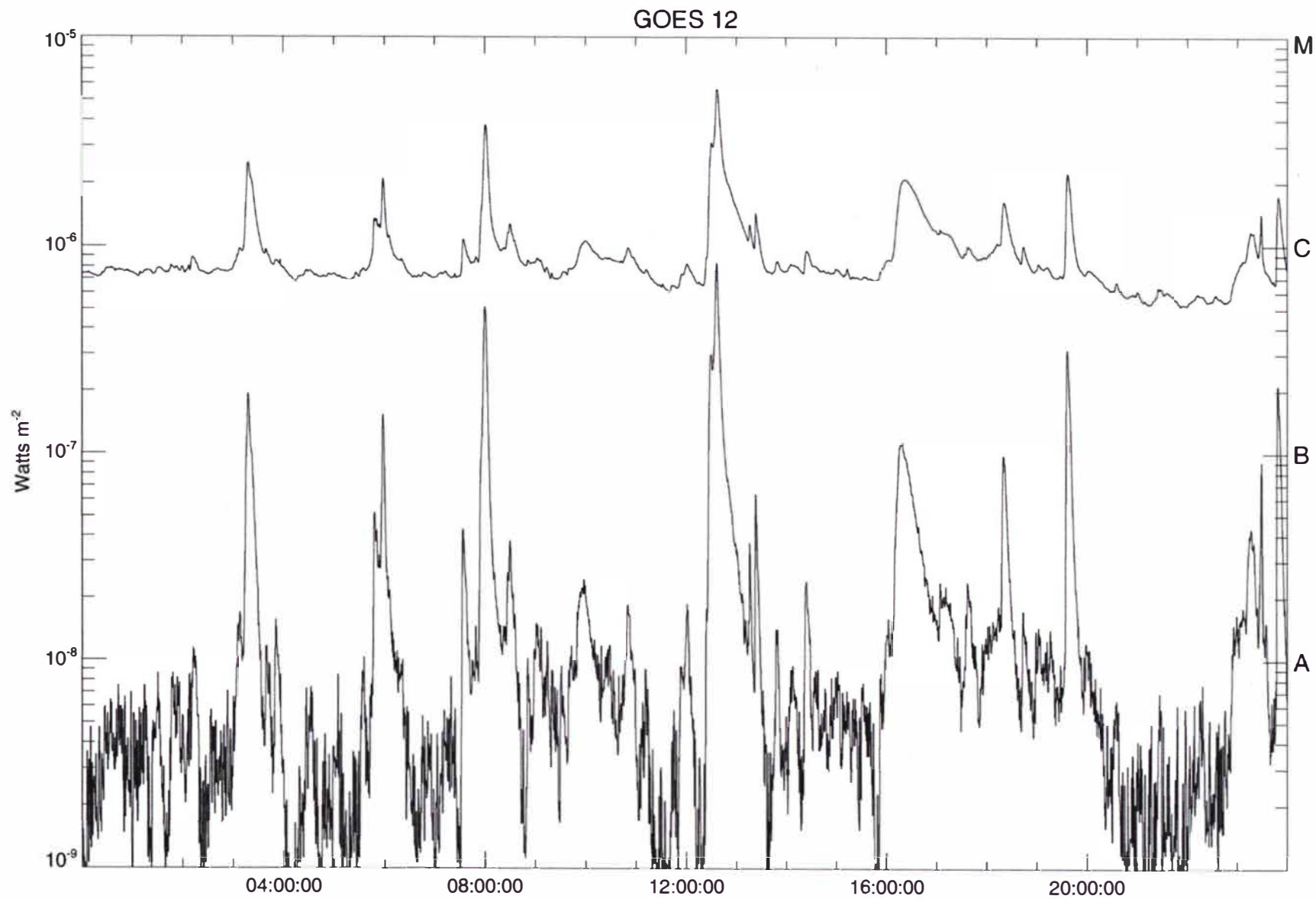
84537.518

D

26 - 293 keV

COUNTS/0.032 S





Data Start: 13/05/04, 0000:11

Plot created: 13/05/07, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

A

From vxw@capella2.gsfc.nasa.gov Sun May 5 01:29:46 2013
 X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
 X-Barracuda-Apparent-Source-IP: 128.183.96.236
 Date: Sun, 5 May 2013 04:29:45 -0400
 From: Bacodine <vxw@capella2.gsfc.nasa.gov>
 To: khurley@ssl.berkeley.edu
 Subject: GCN/SWIFT BAT LIGHTCURVE
 X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
 X-Barracuda-BRTS-Status: 1

TITLE: GCN/SWIFT NOTICE
 NOTICE_DATE: Sun 05 May 13 08:26:31 UT
 NOTICE_TYPE: Swift-BAT GRB Lightcurve
 TRIGGER_NUM: 555163, Seg_Num: 0
 GRB_RA: 137.060d {+09h 08m 14s} (J2000),
 137.247d {+09h 08m 59s} (current),
 136.359d {+09h 05m 26s} (1950)
 GRB_DEC: +17.485d {+17d 29' 06"} (J2000),
 +17.431d {+17d 25' 50"} (current),
 +17.688d {+17d 41' 16"} (1950)
 GRB_DATE: 16417 TJD; 125 DOY; 13/05/05
 GRB_TIME: 30148.39 SOD {08:22:28.39} UT
 TRIGGER_INDEX: 155
 GRB_PHI: -175.87 [deg]
 GRB_THETA: 59.43 [deg]
 DELTA_TIME: -50.00 [sec]
 TRIGGER_DUR: 1.024 [sec]
 SOLN_STATUS: 0x83
 RATE_SIGNIF: 255.99 [sigma]
 IMAGE_SIGNIF: 6.59 [sigma]
 C_URL: sw00555163000msb.lc
 SUN_POSTN: 42.55d {+02h 50m 11s} +16.34d {+16d 20' 16"}
 SUN_DIST: 89.47 [deg] Sun_angle= -6.3 [hr] (East of Sun)
 MOON_POSTN: 349.88d {+23h 19m 31s} +0.44d {+00d 26' 25"}
 MOON_DIST: 143.24 [deg]
 MOON_ILLUM: 21 [%]
 GAL_COORDS: 211.27, 37.89 [deg] galactic lon,lat of the burst (or transient)
 ECL_COORDS: 134.29, 0.99 [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 = 203.17,11.37 [deg]

88s

 $2.1 \times 10^{-5} \text{ erg cm}^{-2}$ $30 \text{ phot/cm}^2 \text{ s}$

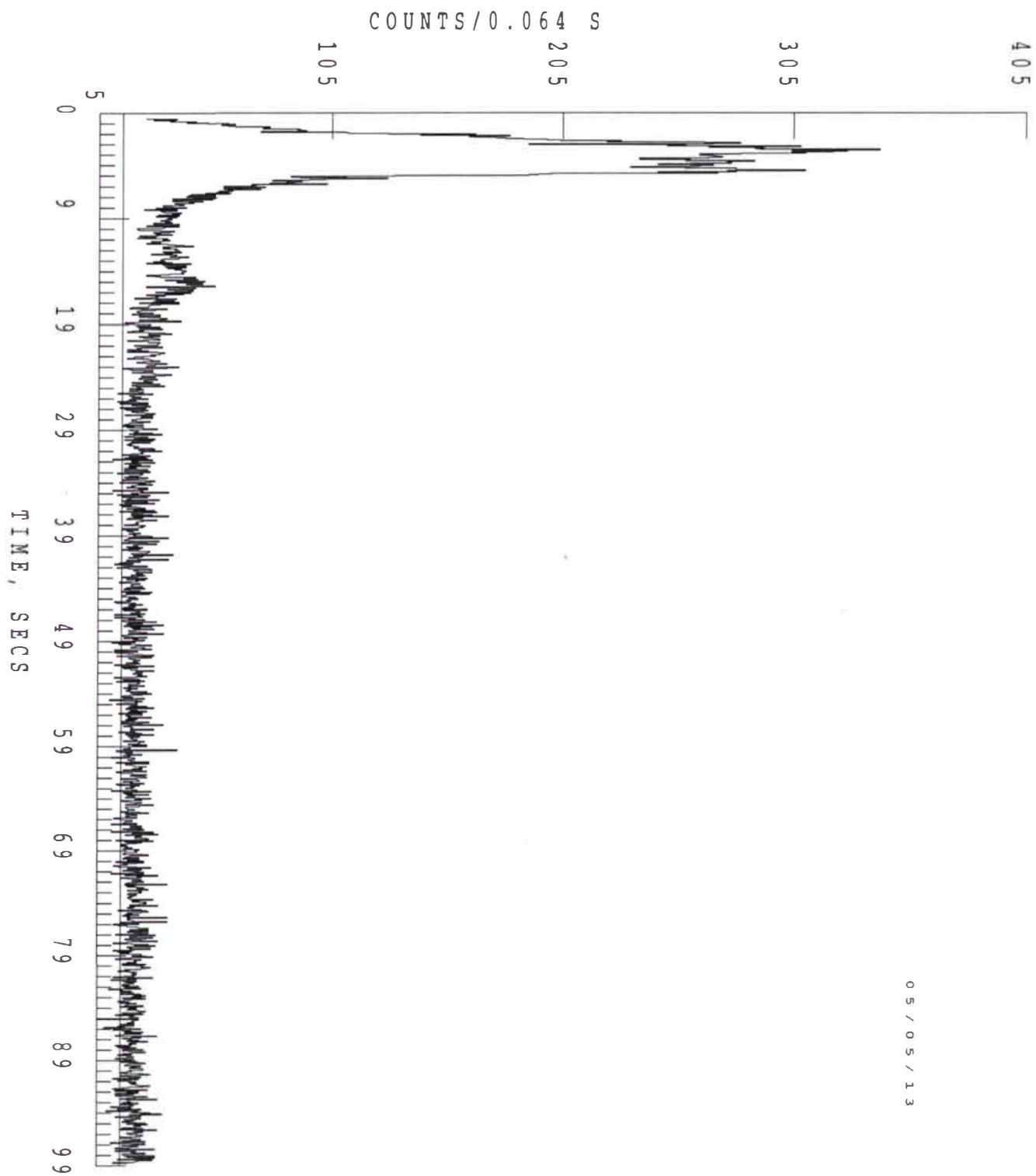
A

KONUS1

05/05/13

30147.038

50 - 200 keV



KONUS HRES 20130505 30147

TRIGGER TIME: 05/05/13 DOY 125 Julian 2456418.84892 UT = 08.374 08:22:27 (30147.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

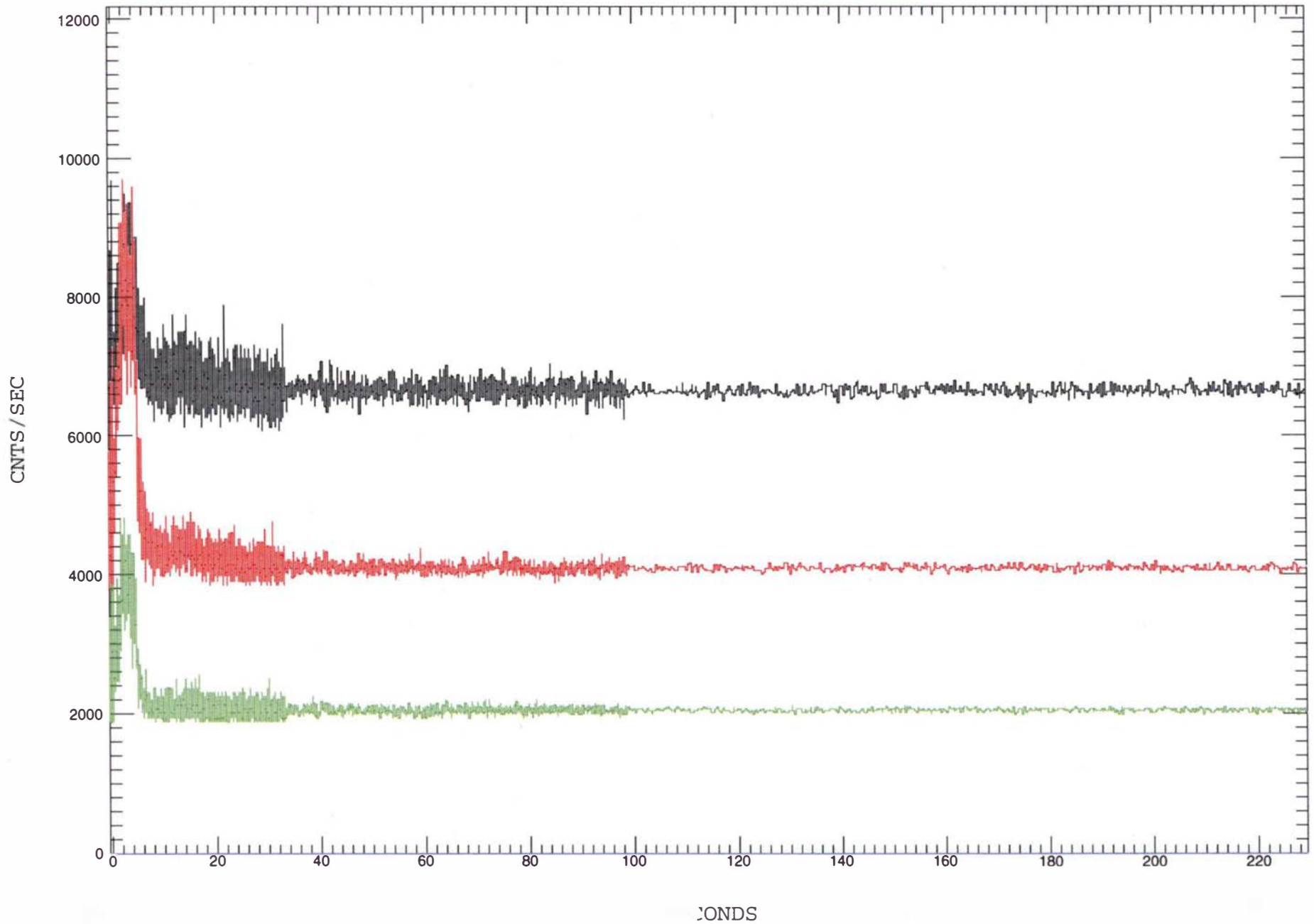
Chan 4 : [> 10 MeV]

Channel 1 + 5700

Channel 2 + 3800

Channel 3 + 1900

Channel 4 + 0



MS01

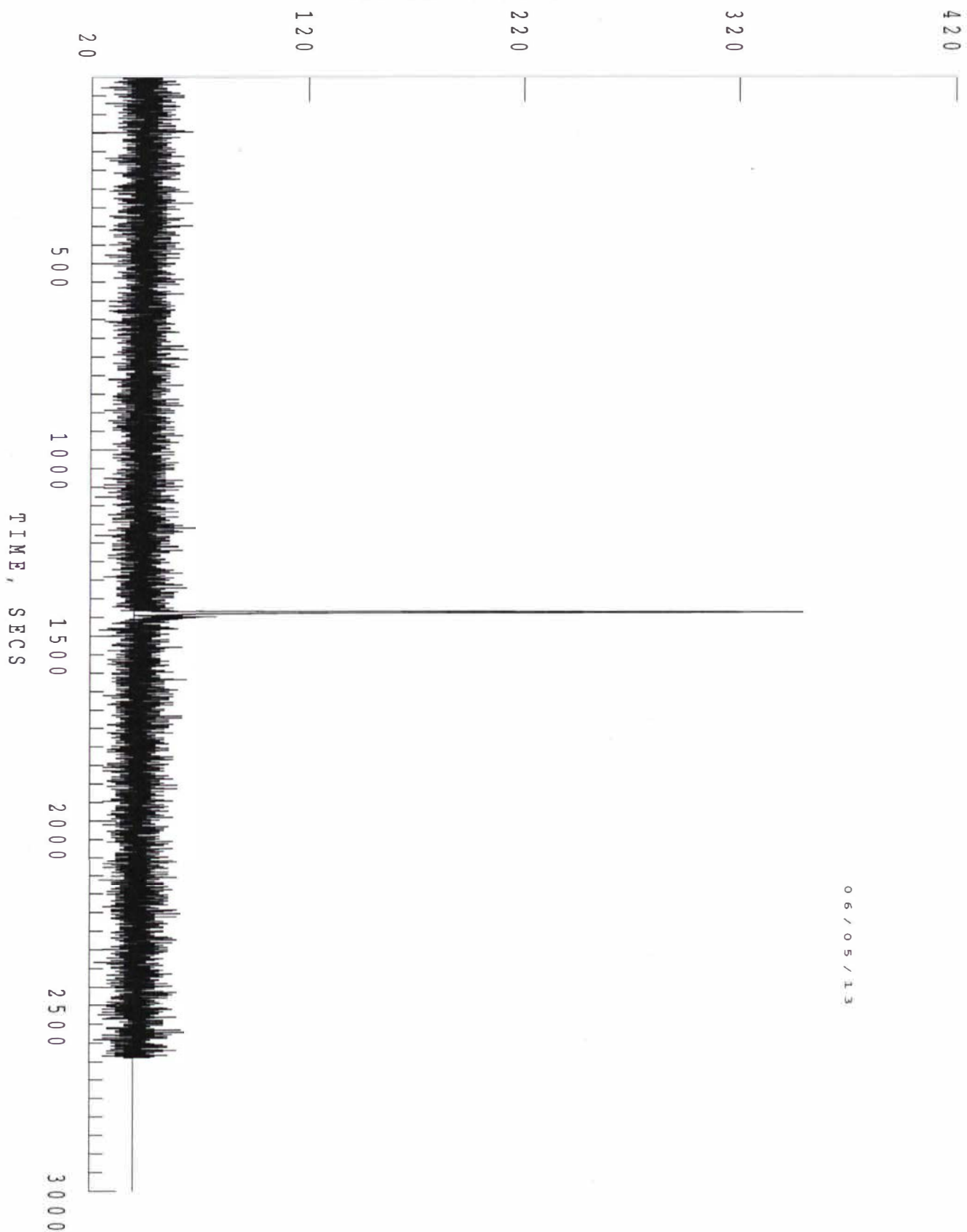
05/05/13

28783.703

A

50 - 3000 keV

COUNTS/0.250 S

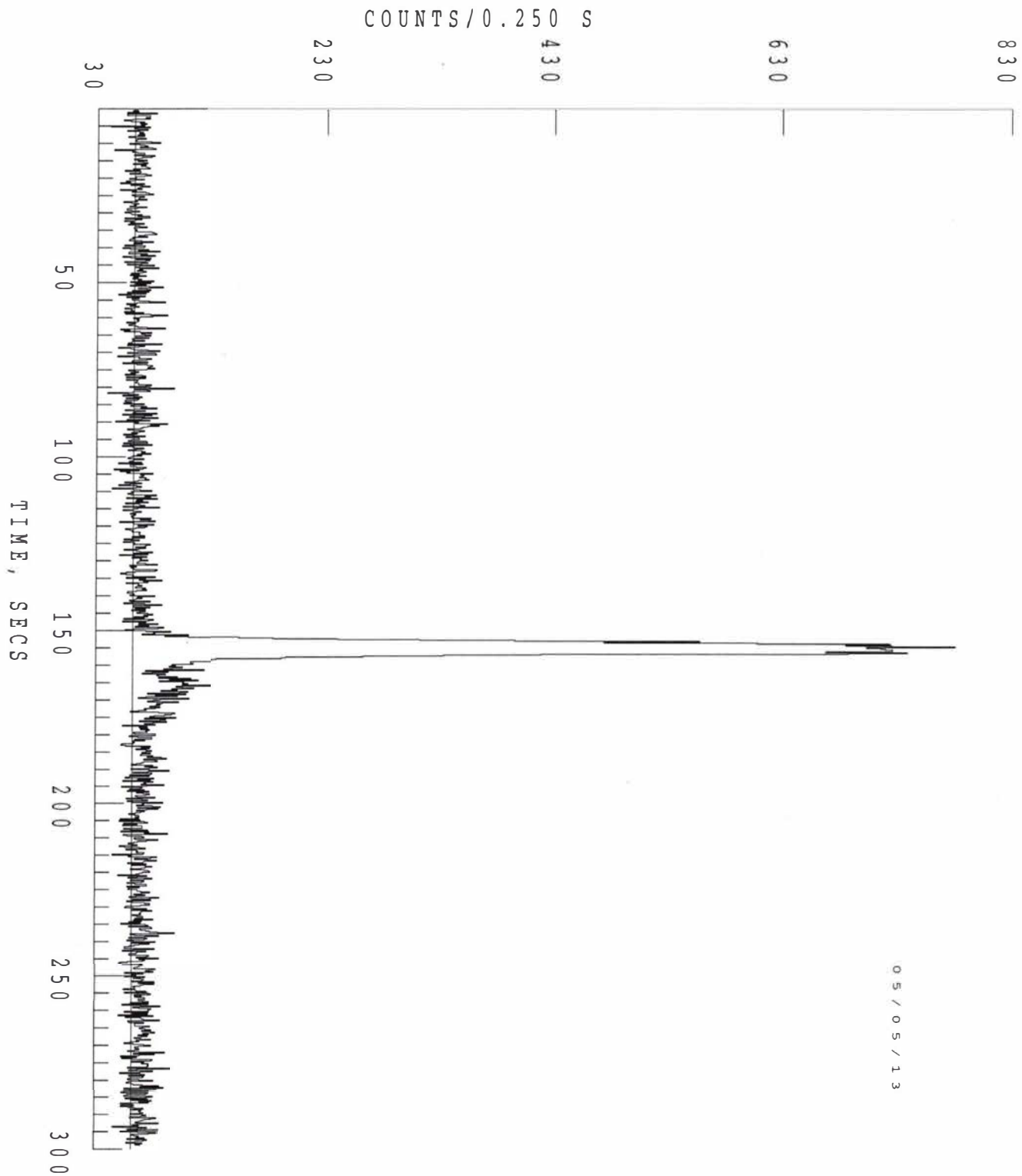


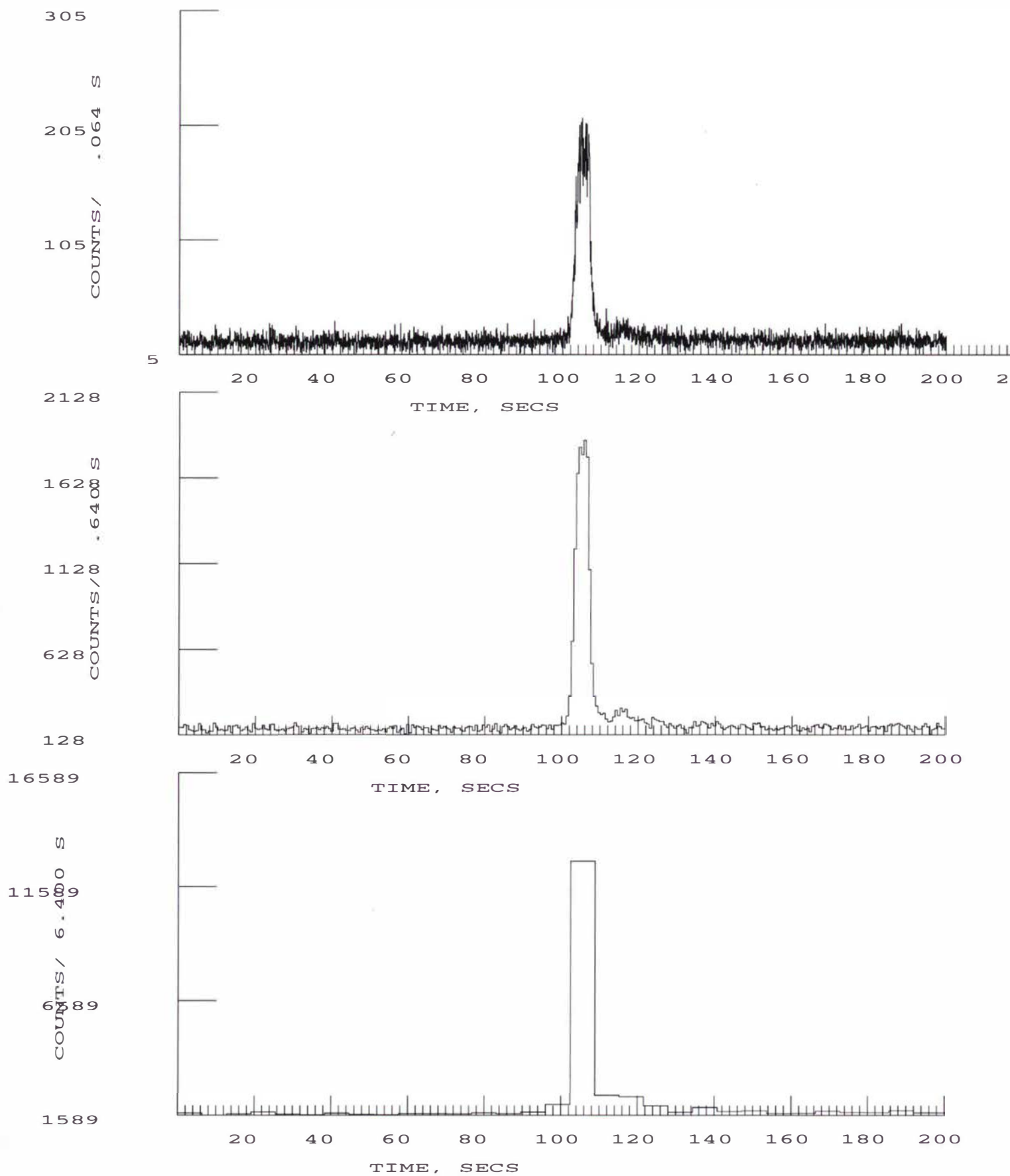
HESSI

05/05/13 29994.000 (INTEGRAL_20130505_30144)

A

25- 150 keV





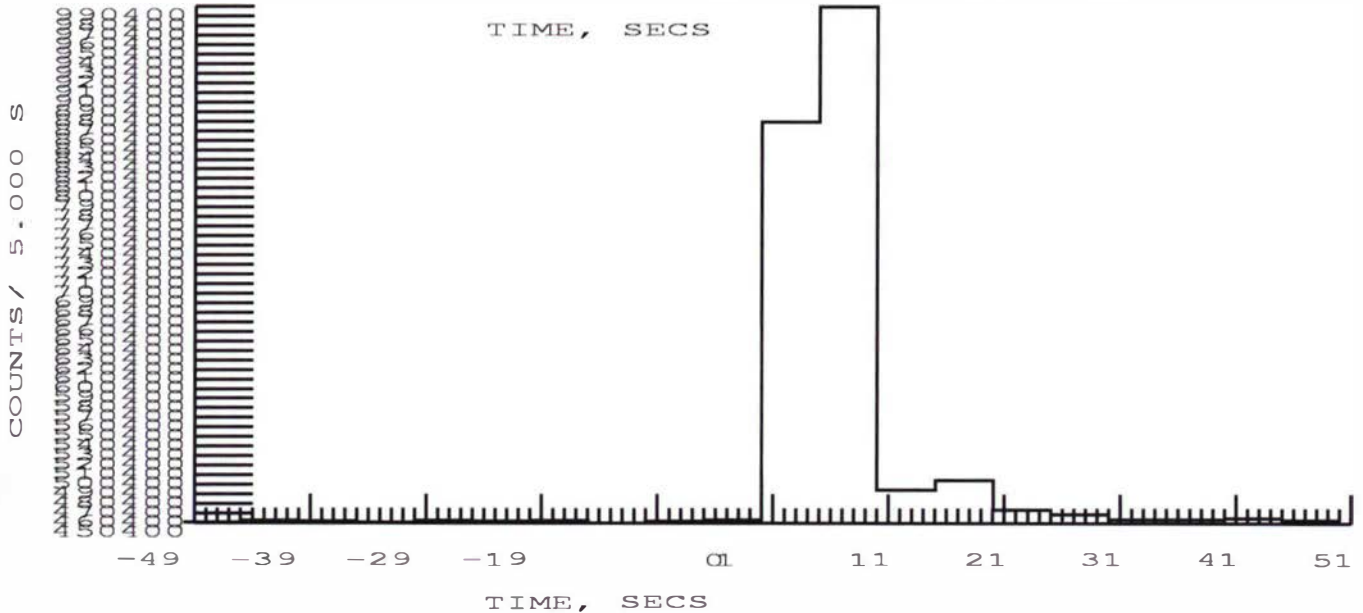
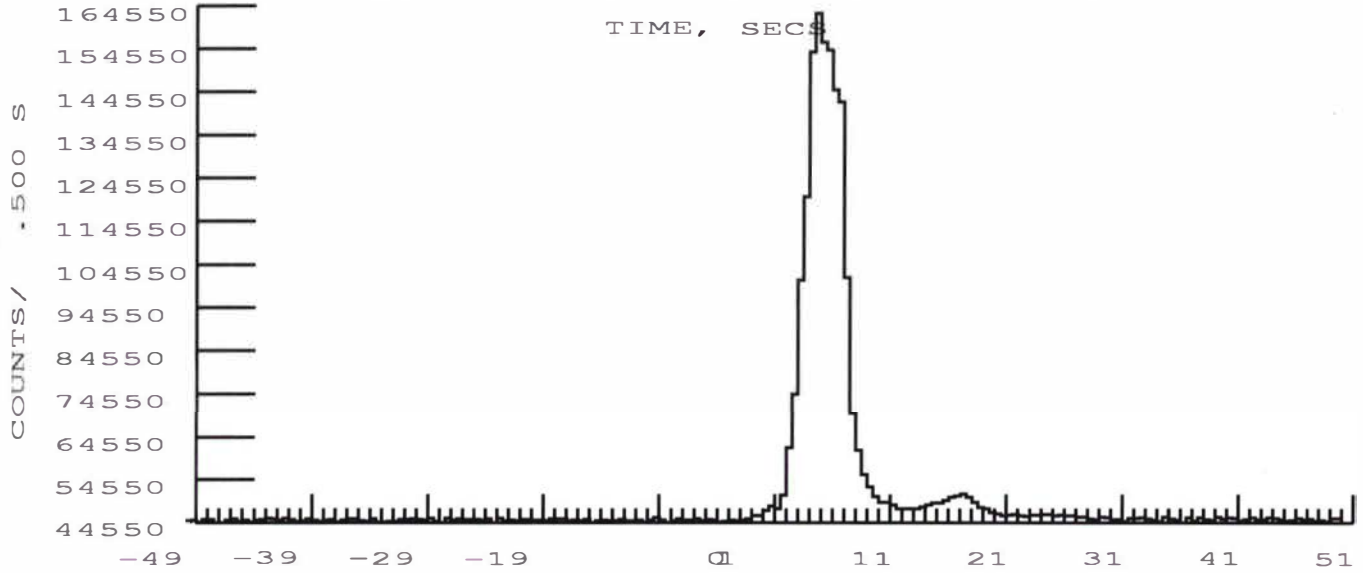
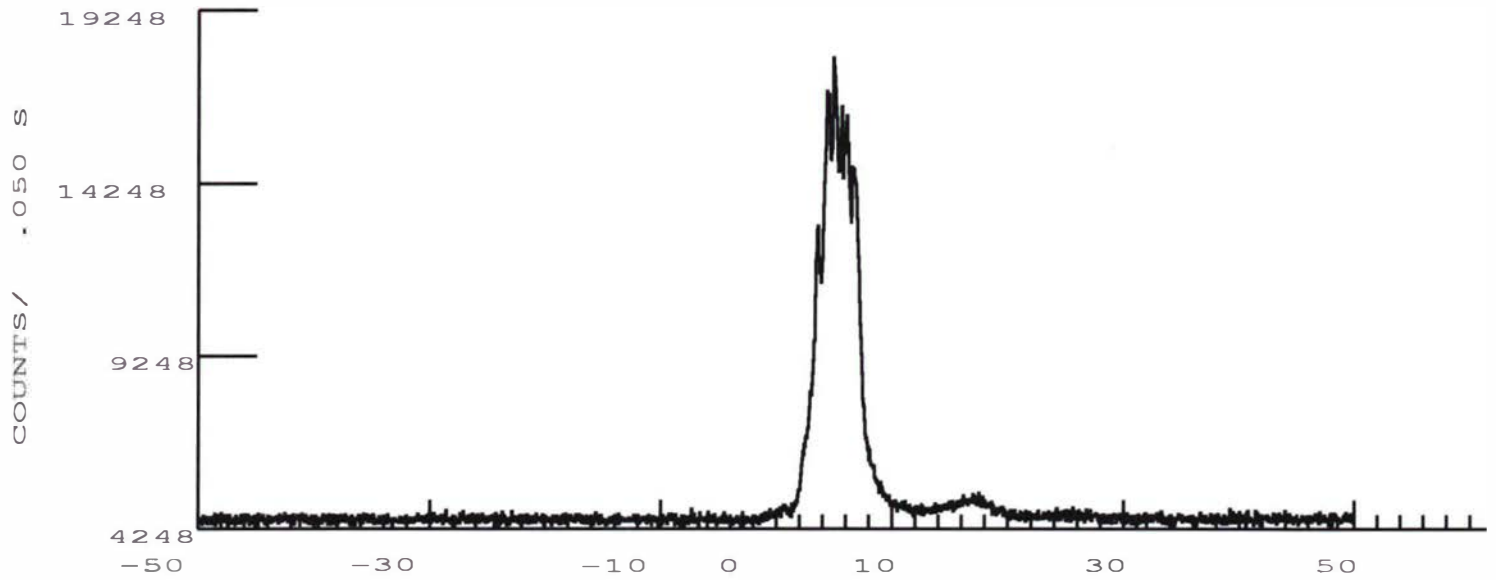
INTEGRAL

05/05/13

30144.000

08:22:24.0

09/10/15



Subject: [Ipn] BAT lightcurve for trigger at 130505_0822

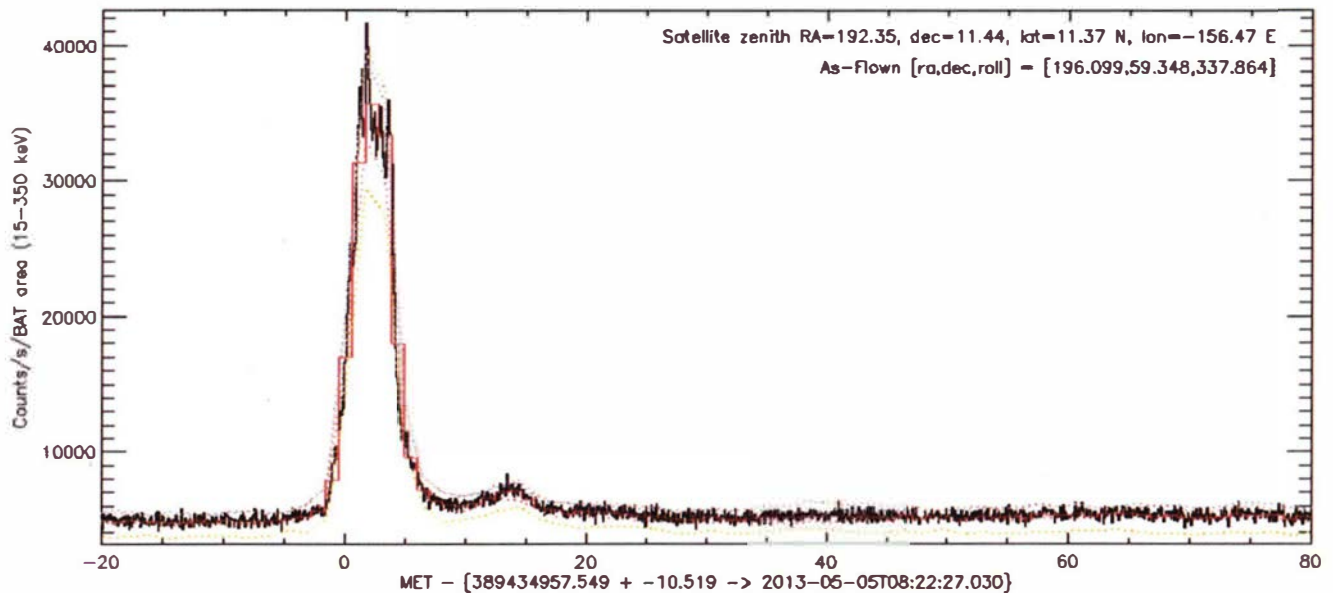
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/5/2013 10:31 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130505_0822.png



```
% /usr/local/bin/swinfo -o 389434957.549
Time(MET + UTCF -> UT): 389434957.549 + -10.519 -> 2013-05-05T08:22:27.030
YYMMDD_SOD: 130505_30147.030 DOY=125
Swift Zenith(RA,dec): 192.35, 11.44
Swift Location(lon,lat,alt): -156.47 E, 11.37 N, 566 km
Obs Sequence Number: 00553977020
Obs Target Name: GRB 130420A
Obs Date and Times: 2013-05-05 08:07:51 - 08:22:38
Obs Pointing(ra,dec,roll): 196.099, 59.348, 337.86
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130505_0822_bat64ms_ipn	87.0 KB
/tmp/130505_0822.png	11.4 KB

A

23/10/13

MESSENGER

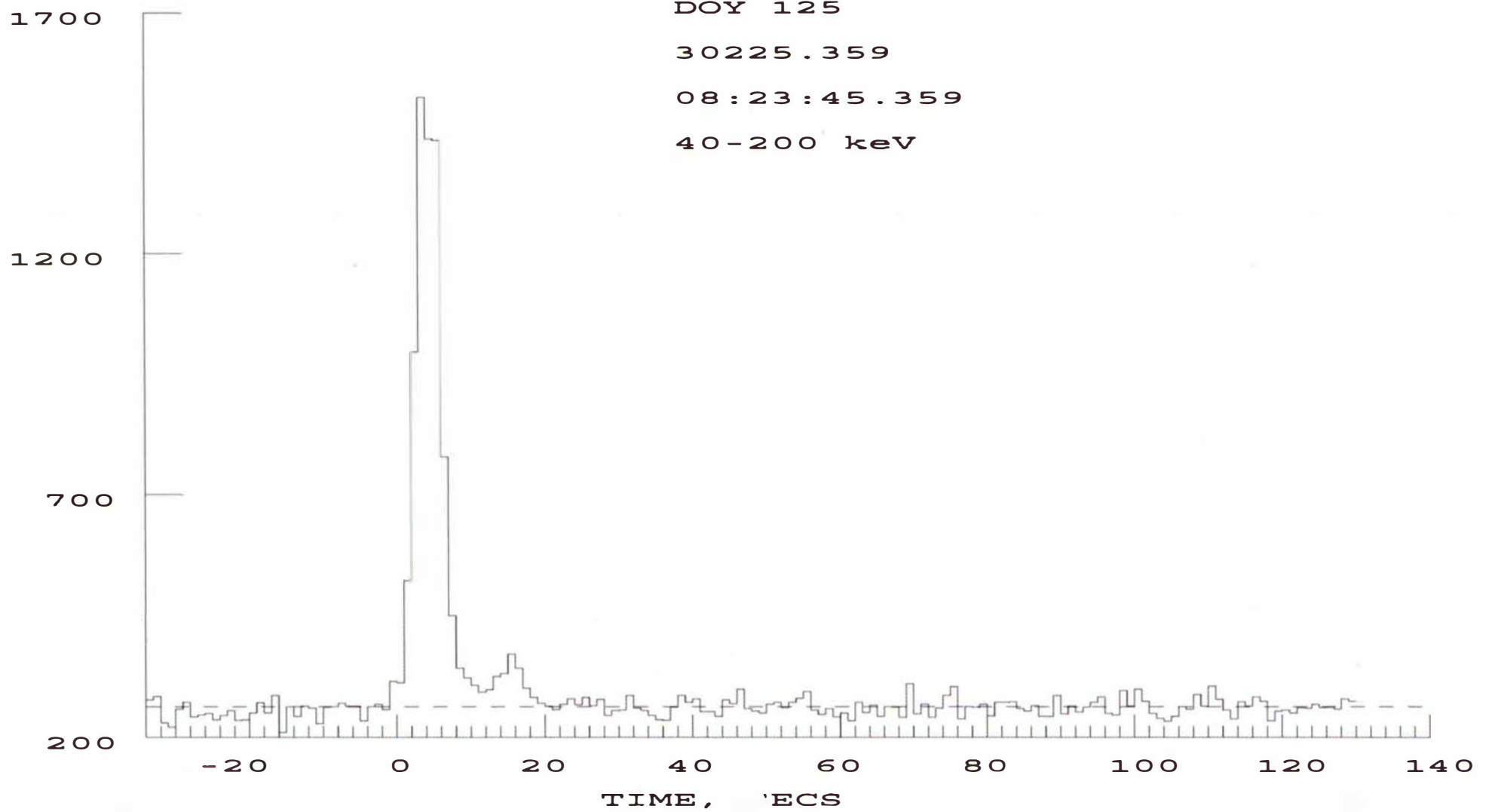
05/05/13

DOY 125

30225.359

08:23:45.359

40-200 keV



SUZAKU

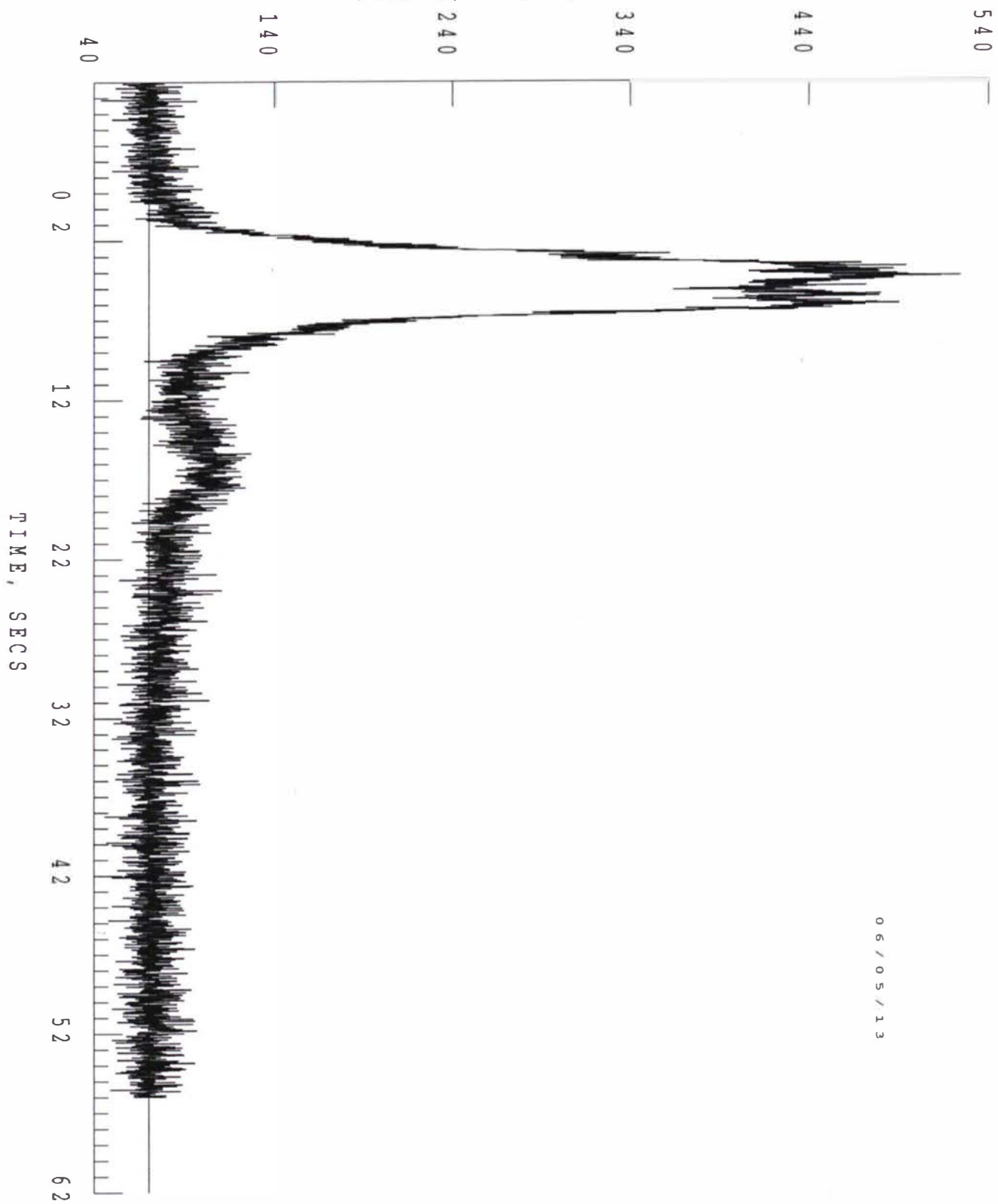
05/05/13

30144.528

A

50 - 240 keV

COUNTS/0.016 S



From gcncirc@capella2.gsfc.nasa.gov Sun May 5 03:13:13 2013
 X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
 X-Barracuda-Apparent-Source-IP: 128.183.96.236
 From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
 Subject: GRB 130505A: MAXI/GSC detection
 To: khurley@ssl.berkeley.edu
 Date: Sun, 5 May 2013 06:13:11 -0400 (EDT)
 X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
 X-Barracuda-BRTS-Status: 1

TITLE: GCN CIRCULAR
 NUMBER: 14566
 SUBJECT: GRB 130505A: MAXI/GSC detection
 DATE: 13/05/05 10:13:07 GMT
 FROM: Satoshi Nakahira at JAXA/MAXI <nakahira.satoshi@jaxa.jp>

GRB 130505A: MAXI/GSC detection

S. Nakahira (JAXA), M. Serino (RIKEN), H. Negoro (Nihon U.),
 S. Ueno, H. Tomida, M. Kimura, M. Ishikawa (JAXA),
 T. Mihara, M. Sugizaki, M. Morii, T. Yamamoto, J. Sugimoto, T. Takagi, M. Matsuo
 N. Kawai, R. Usui, K. Ishikawa, T. Yoshii (Tokyo Tech),
 A. Yoshida, T. Sakamoto, Y. Nakano (AGU),
 H. Tsunemi, M. Sasaki (Osaka U.),
 M. Nakajima, T. Onodera, K. Fukushima, K. Suzuki (Nihon U.),
 Y. Ueda, M. Shidatsu, T. Kawamuro, (Kyoto U.),
 Y. Tsuboi, M. Higa (Chuo U.),
 M. Yamauchi, K. Yoshidome, Y. Ogawa, H. Yamada (Miyazaki U.),
 K. Yamaoka (Nagoya U.) report on behalf of the MAXI team

At 2013-05-05T08:22:29 UT, the MAXI/GSC detected an uncatalogued X-ray transient source. Assuming that the source flux was constant over the transit, we obtain the source position at
 (R.A., Dec.) = (136.955 deg, 17.585 deg) = (09 07 49 , +17 35 05) (J2000)
 with a 90% C.L. statistical error of 0.07 deg and an additional systematic uncertainty of 0.1 deg (90% containment radius).

The position and time are consistent with those of GRB 130505A (Cannizzo et al, GCN #14563). The transit by MAXI occurred from
 2013-05-05T08:22:18 (=T0-10 s, where T0 is the Swift/BAT trigger time) to T0+40s
 The averaged X-ray flux was 3.17 +/- 0.21 Crab (2-20 keV).
 The spectrum is fitted by a power-law model with a photon index of
 1.37 (-0.10/+0.10). There was no significant excess flux at the previous
 transit at 2013/05/05 06:46 UT and at the next transit at 2013/05/05
 09:55 UT with an upper limit of 20 mCrab for each.

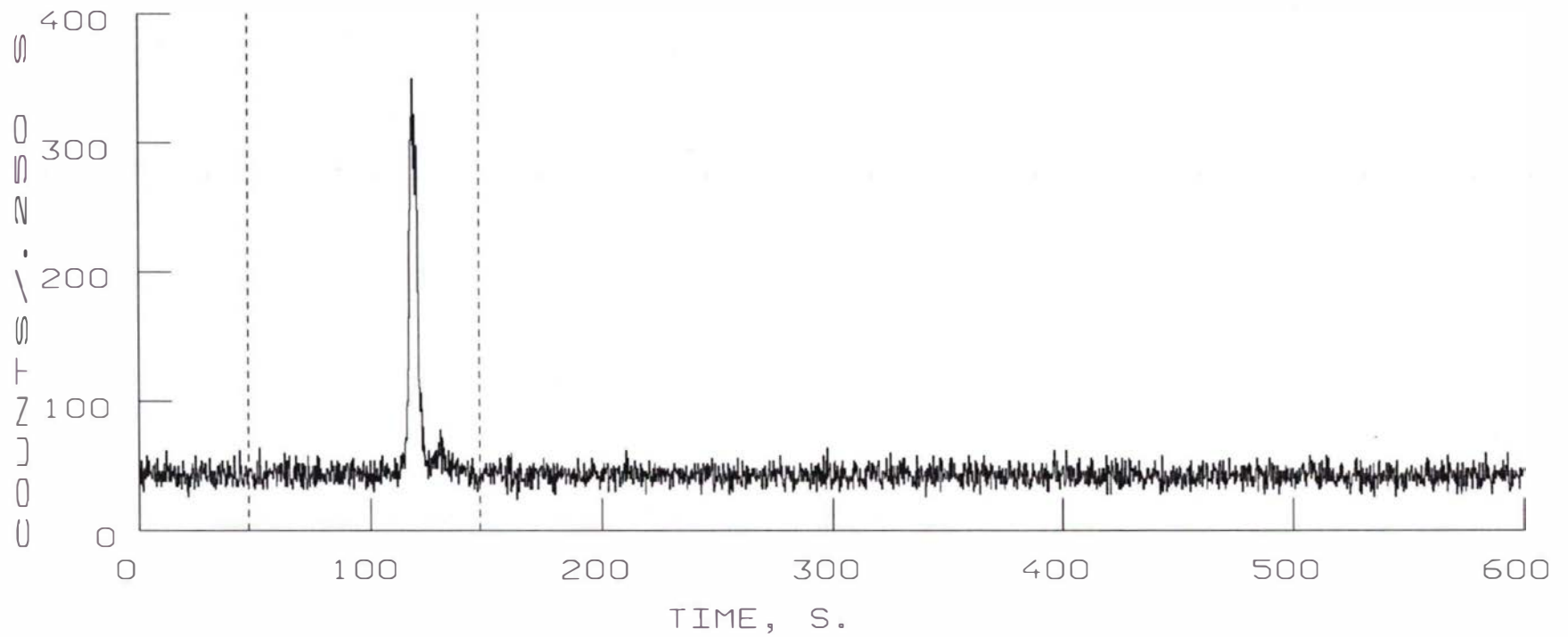
MS01 HEND

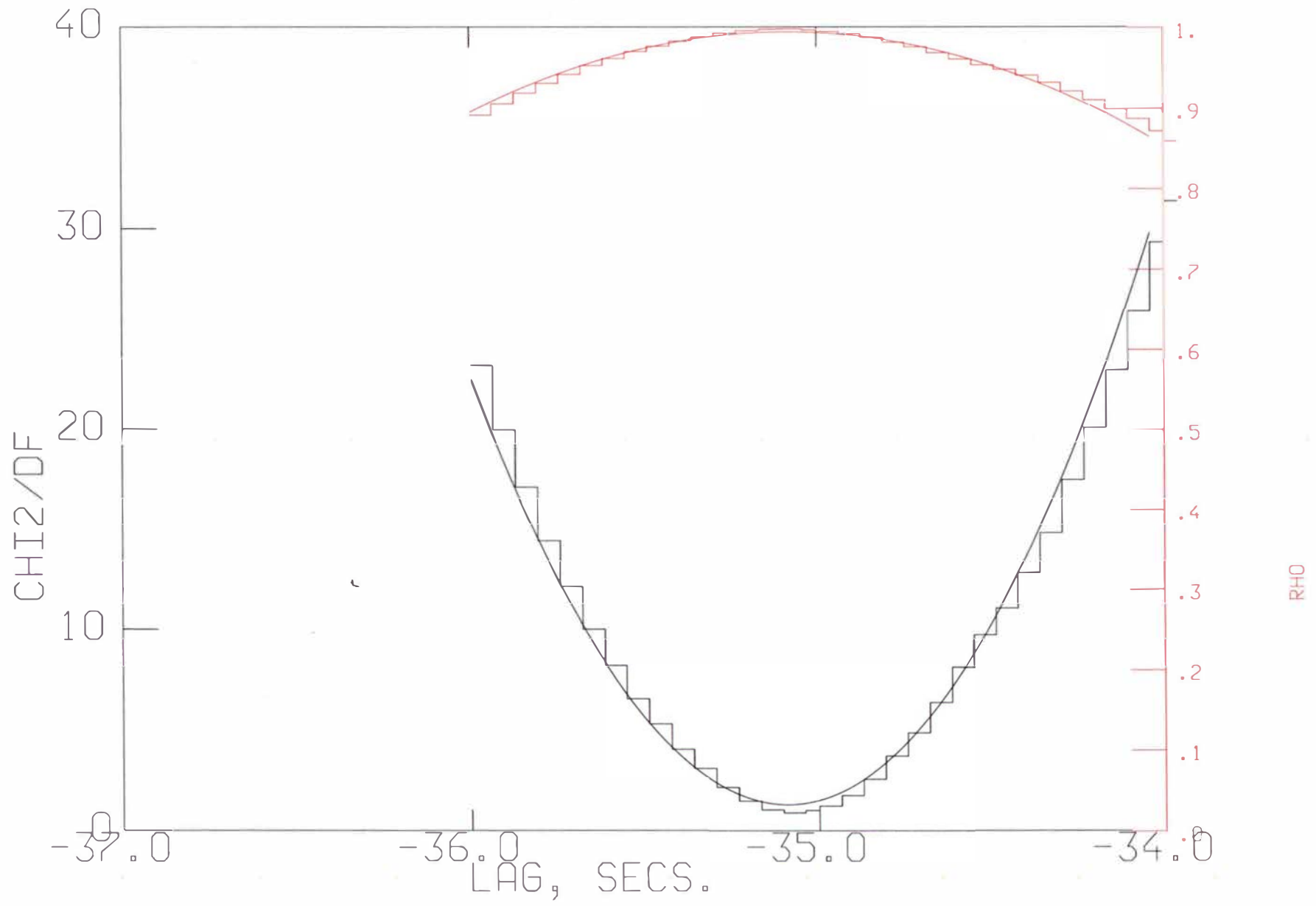
21/02/2014

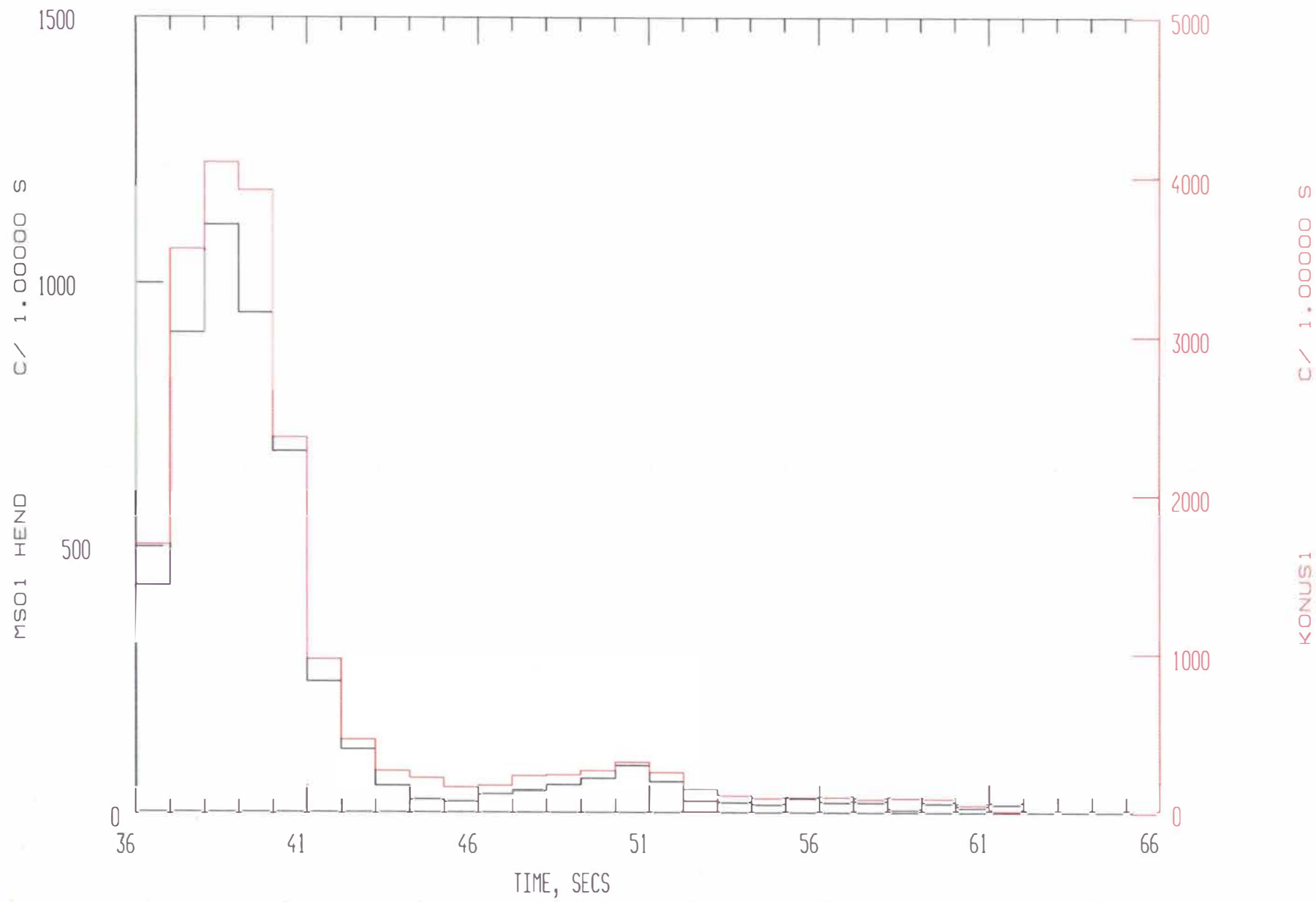
05/05/2013 30103.684 s

50-3000 keV

N= 10 M=80
>4.0 SIGMA FLUCTUATIONS



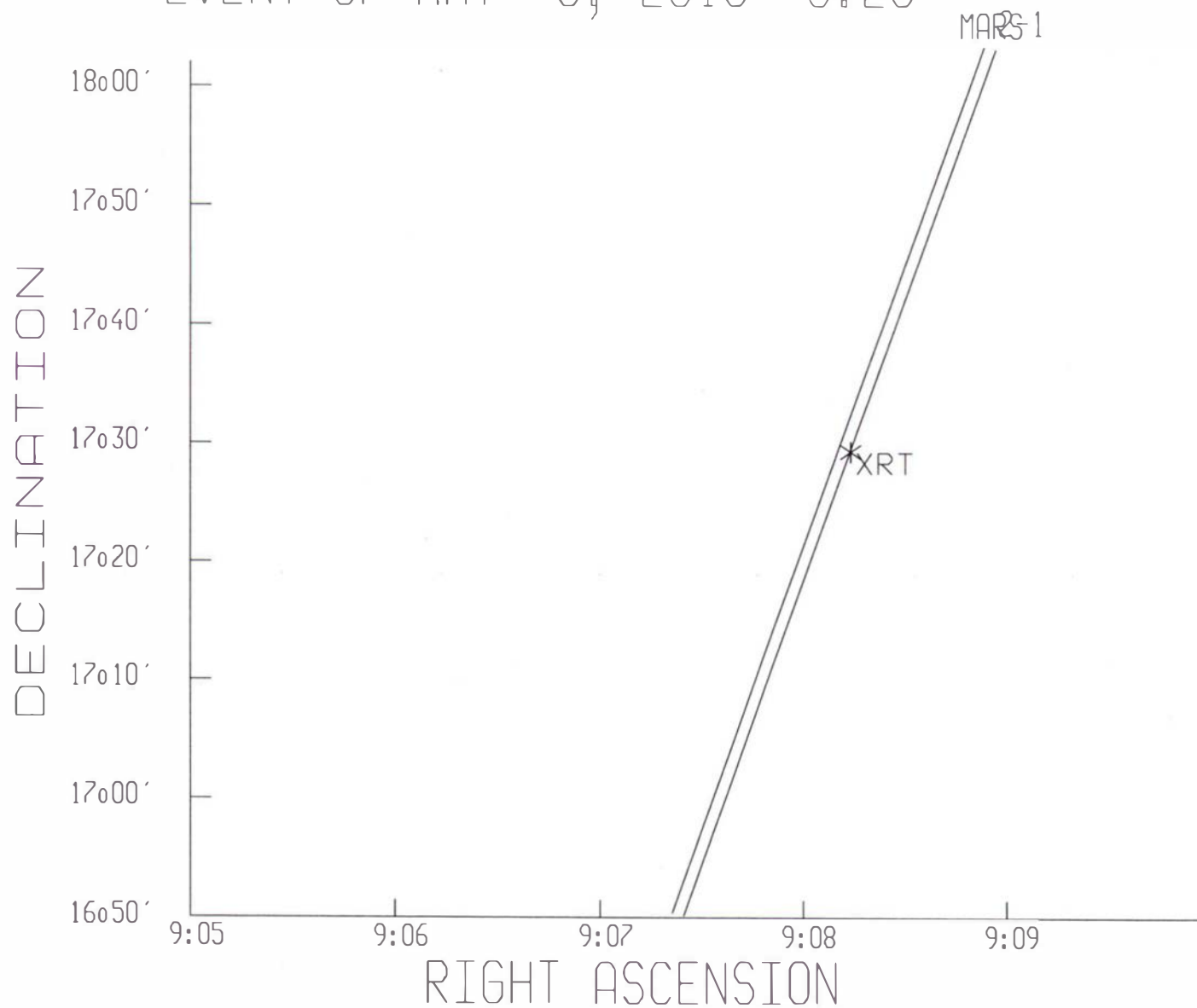


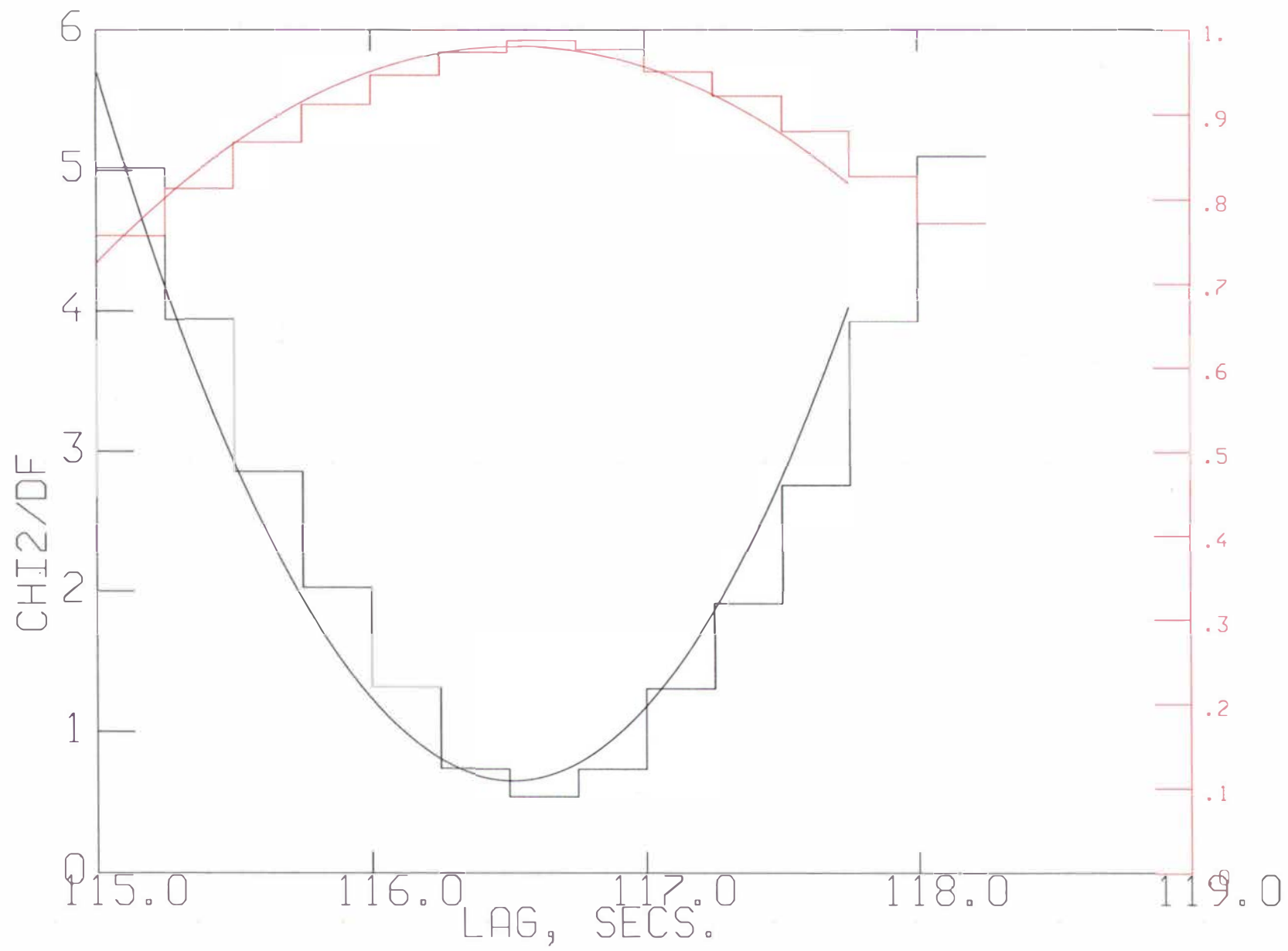


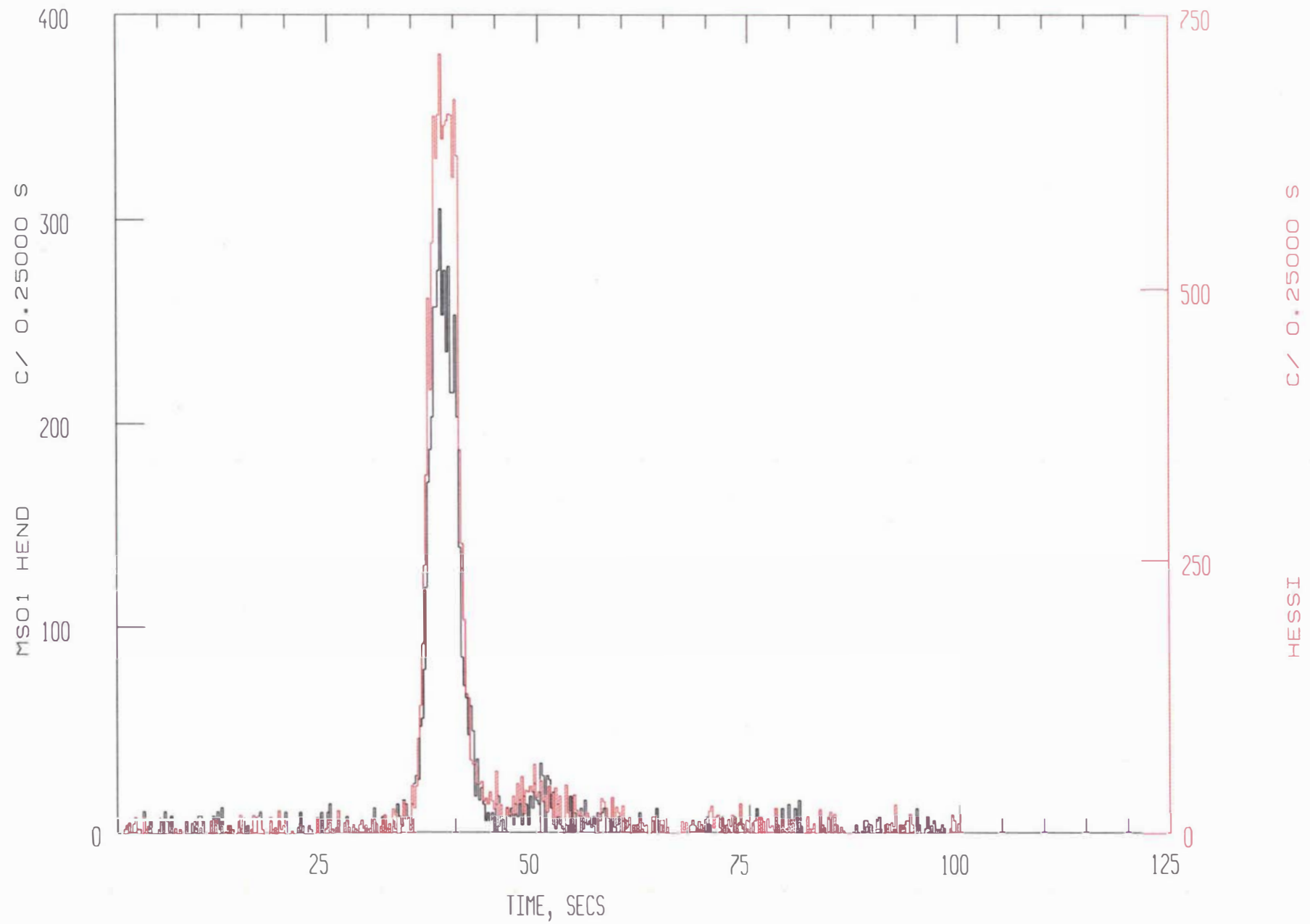
EVENT OF MAY 5, 2013 8:23

21/02/2014

N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 MO 2 KONUS1



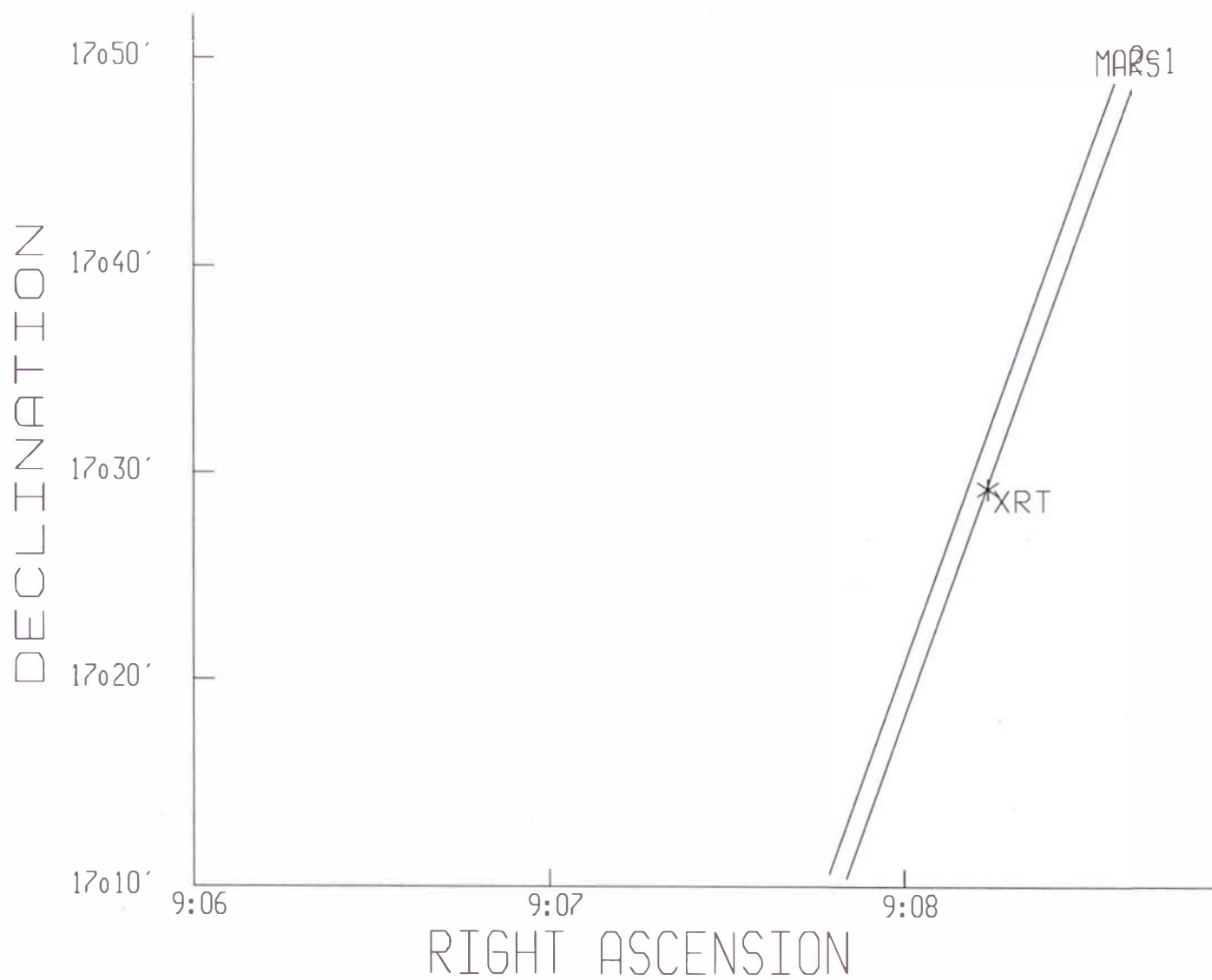


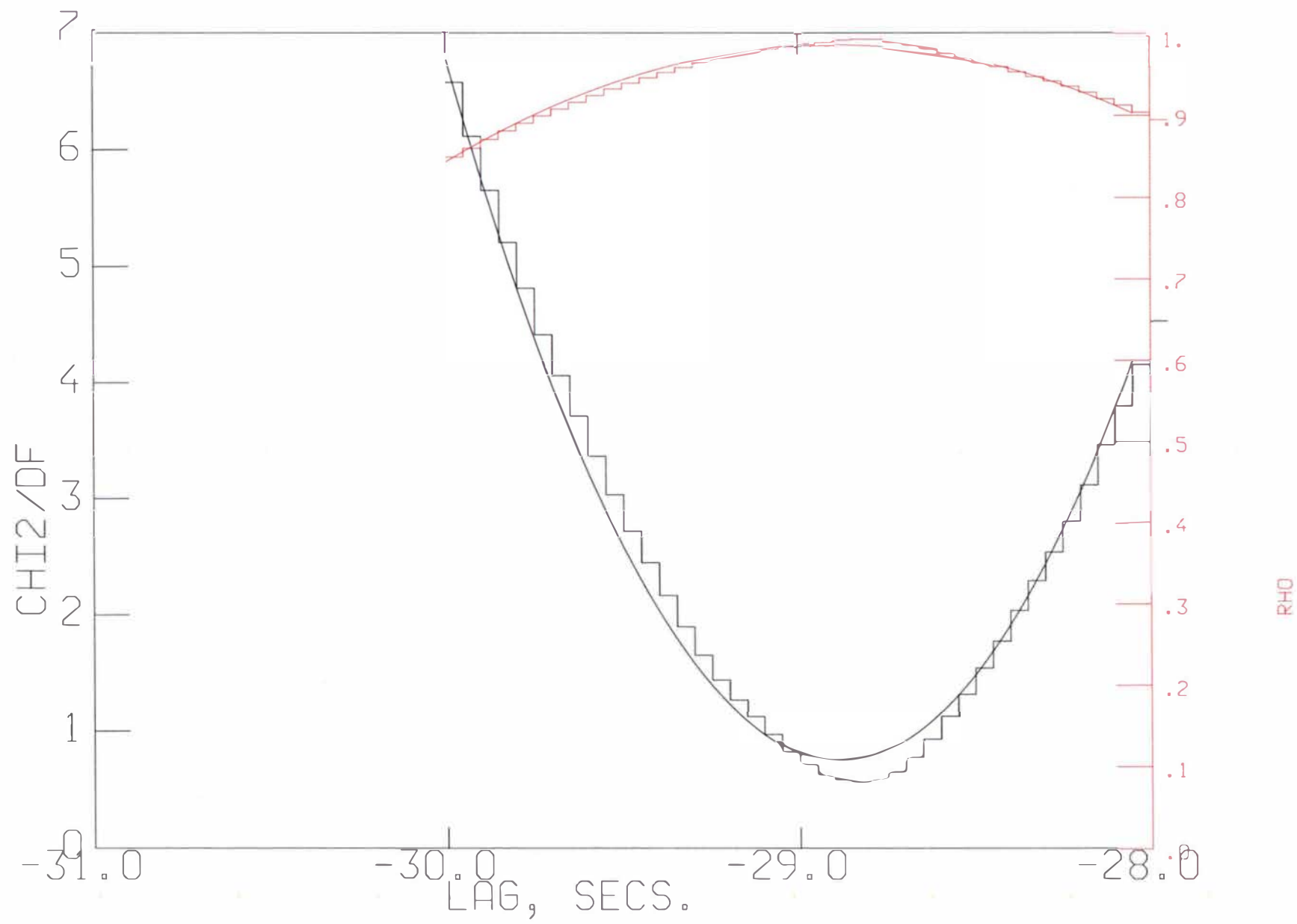


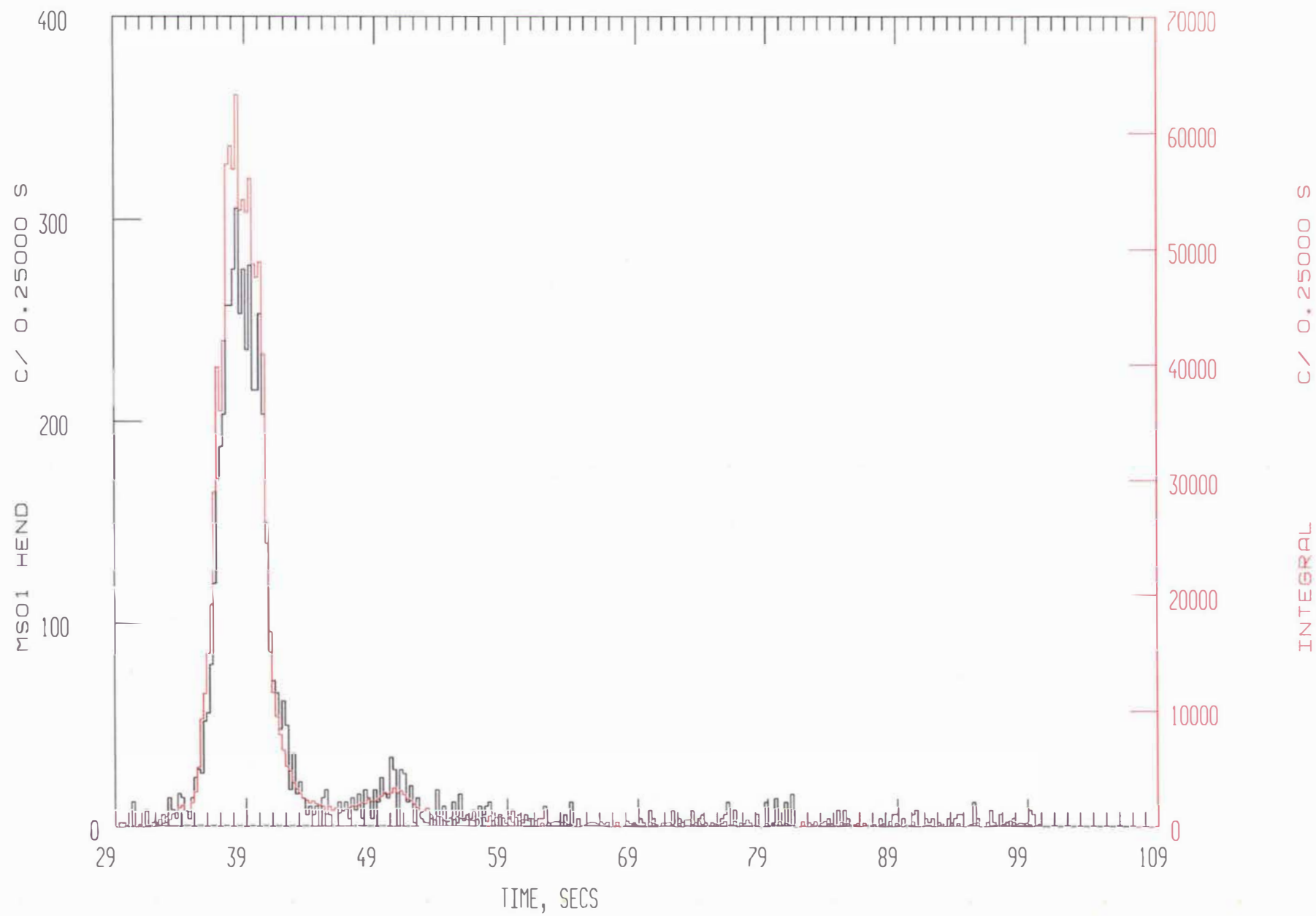
EVENT OF MAY 5, 2013 8:23

21/02/2014

N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 MO 2 HESSI



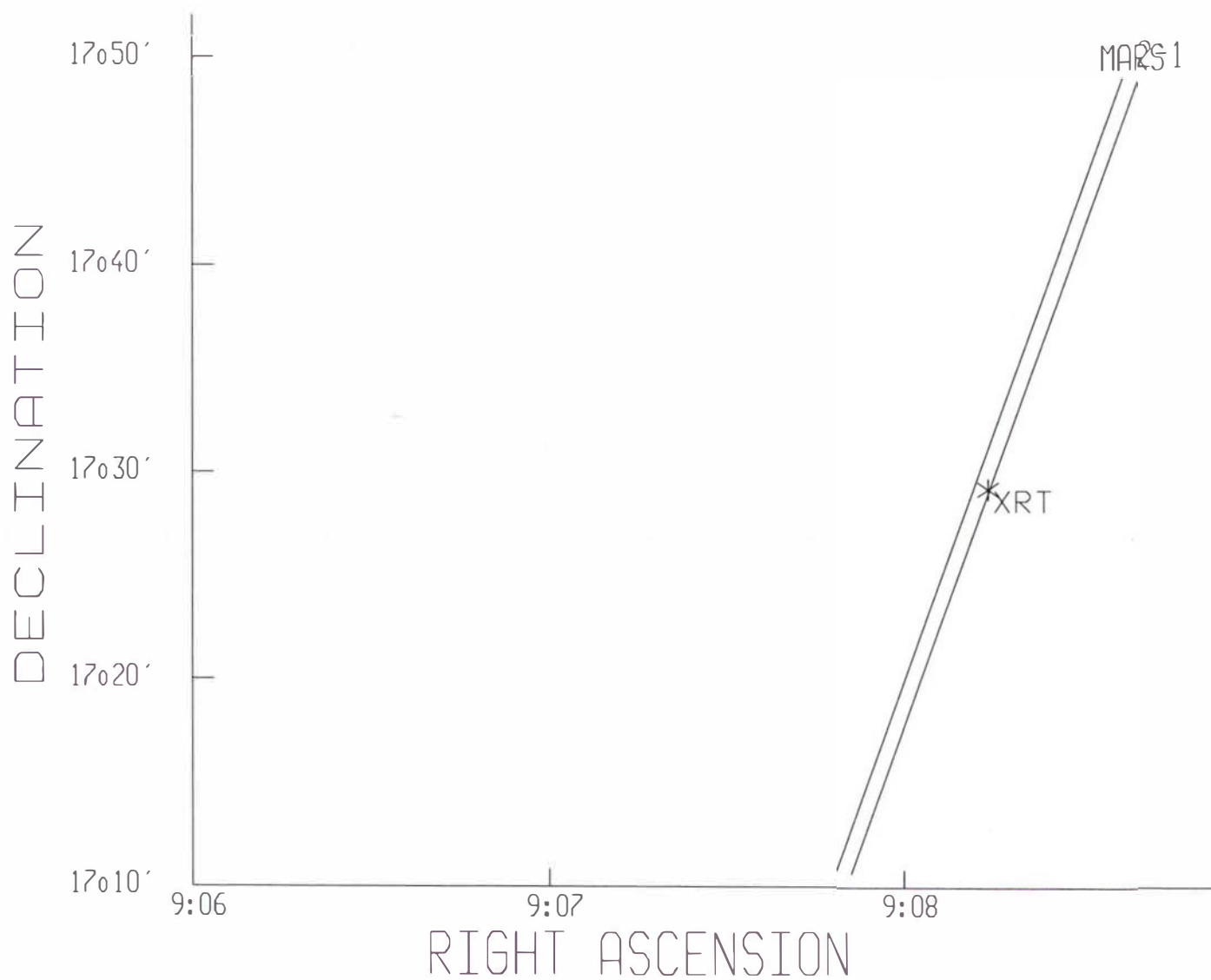




EVENT OF MAY 5, 2013 8:23

21/02/2014

N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 MO 2 INTEGRAL



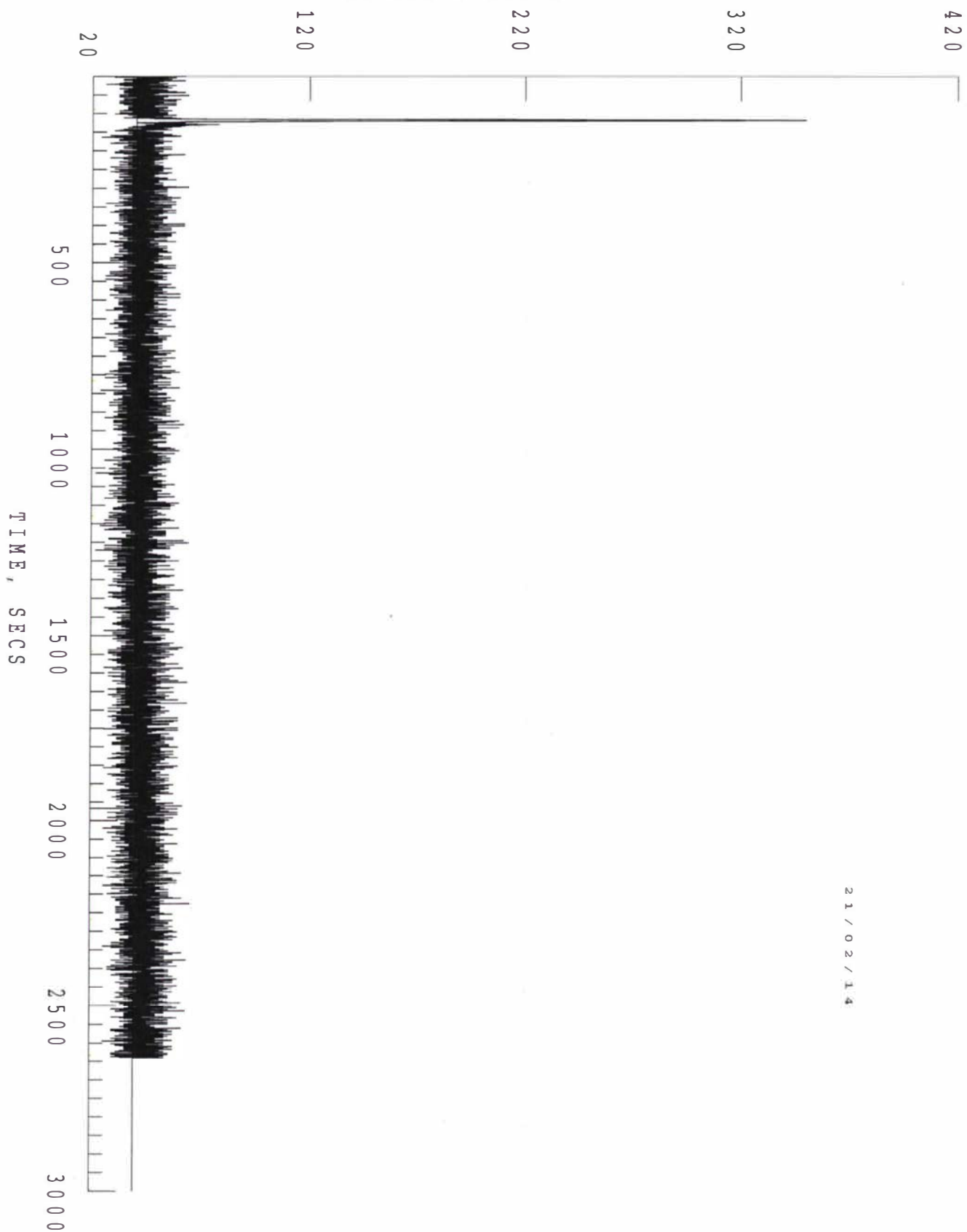
MS01

05/05/13

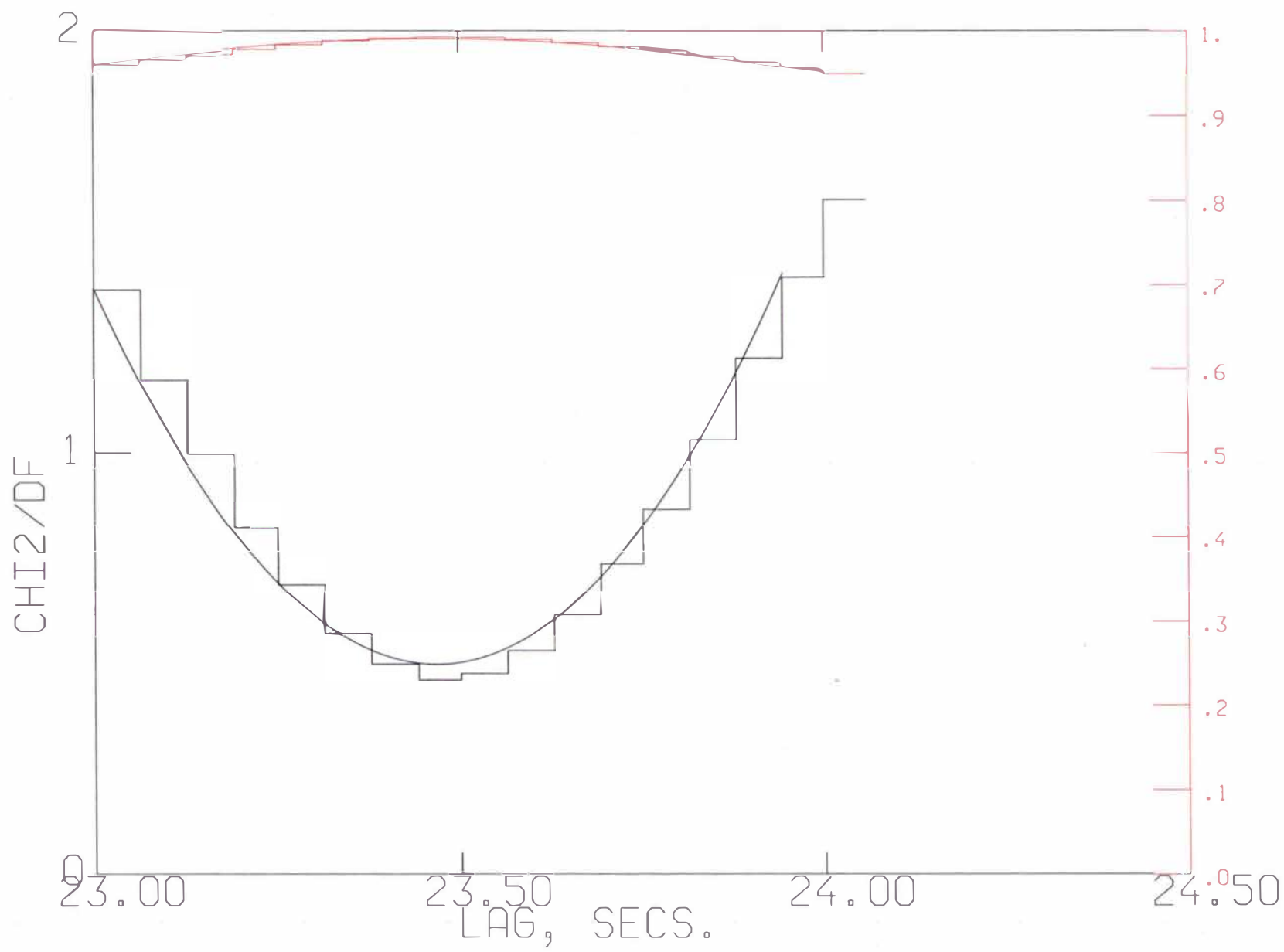
30103.683

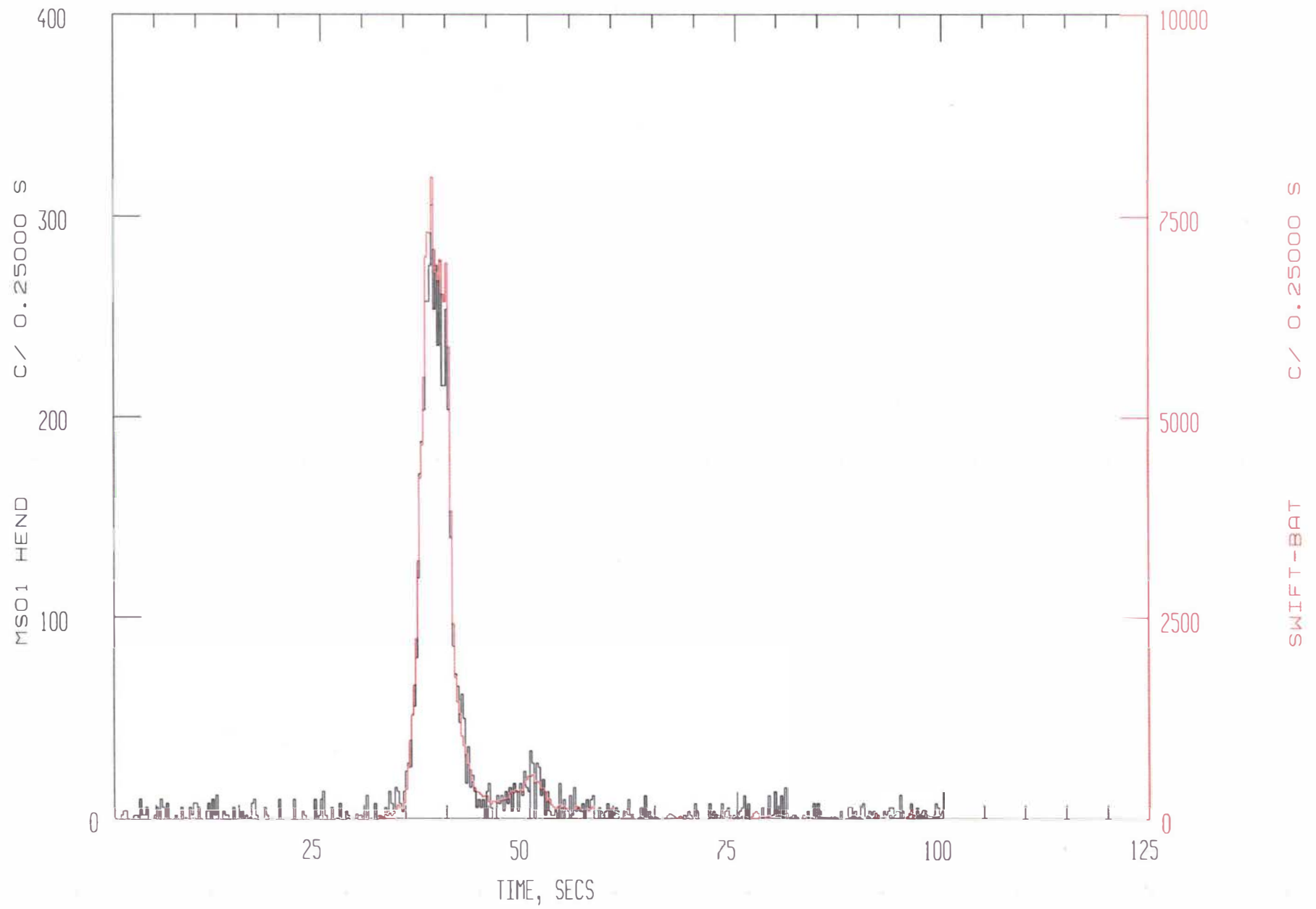
50 - 3000 keV

COUNTS/0.250 S



21 / 02 / 14

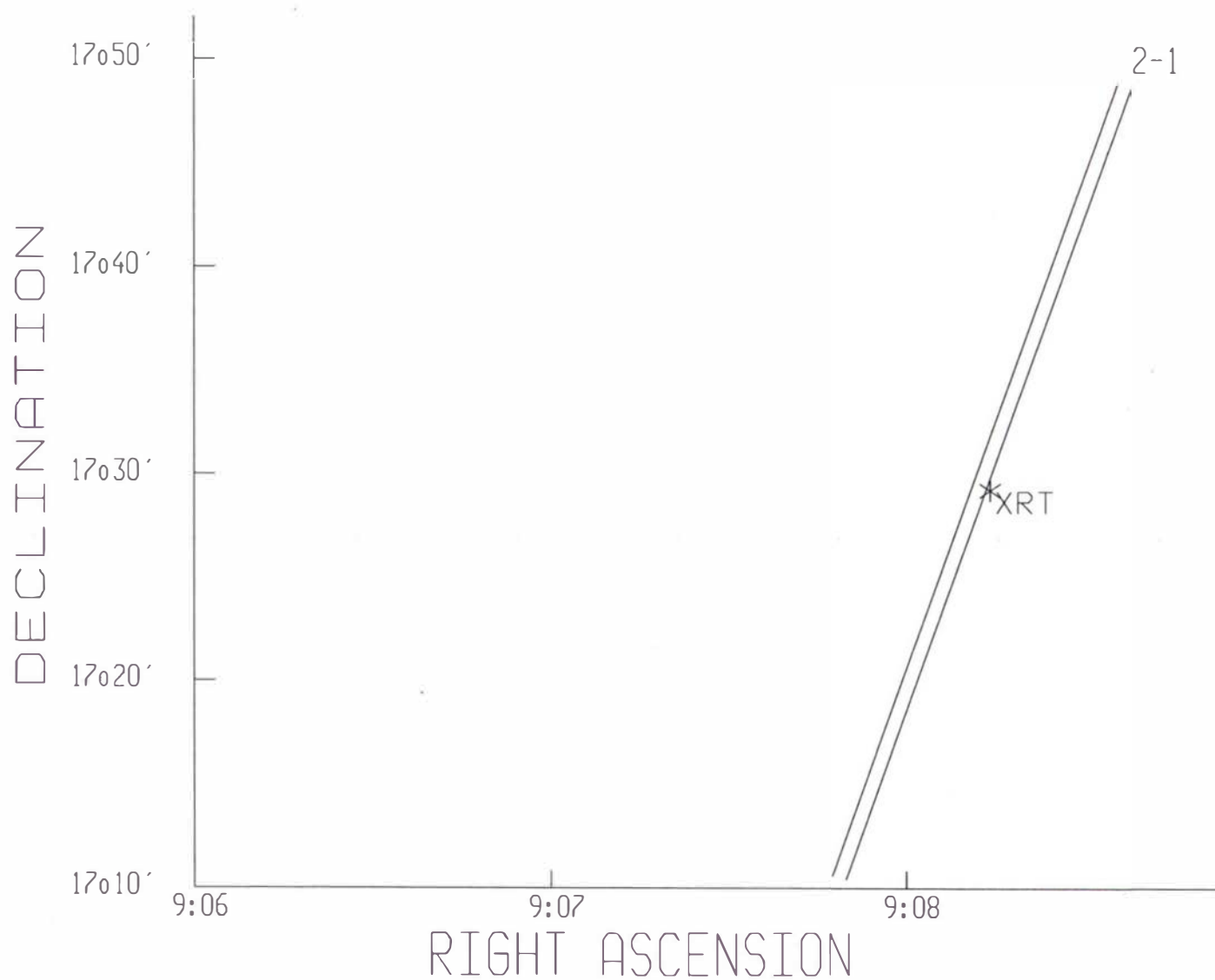


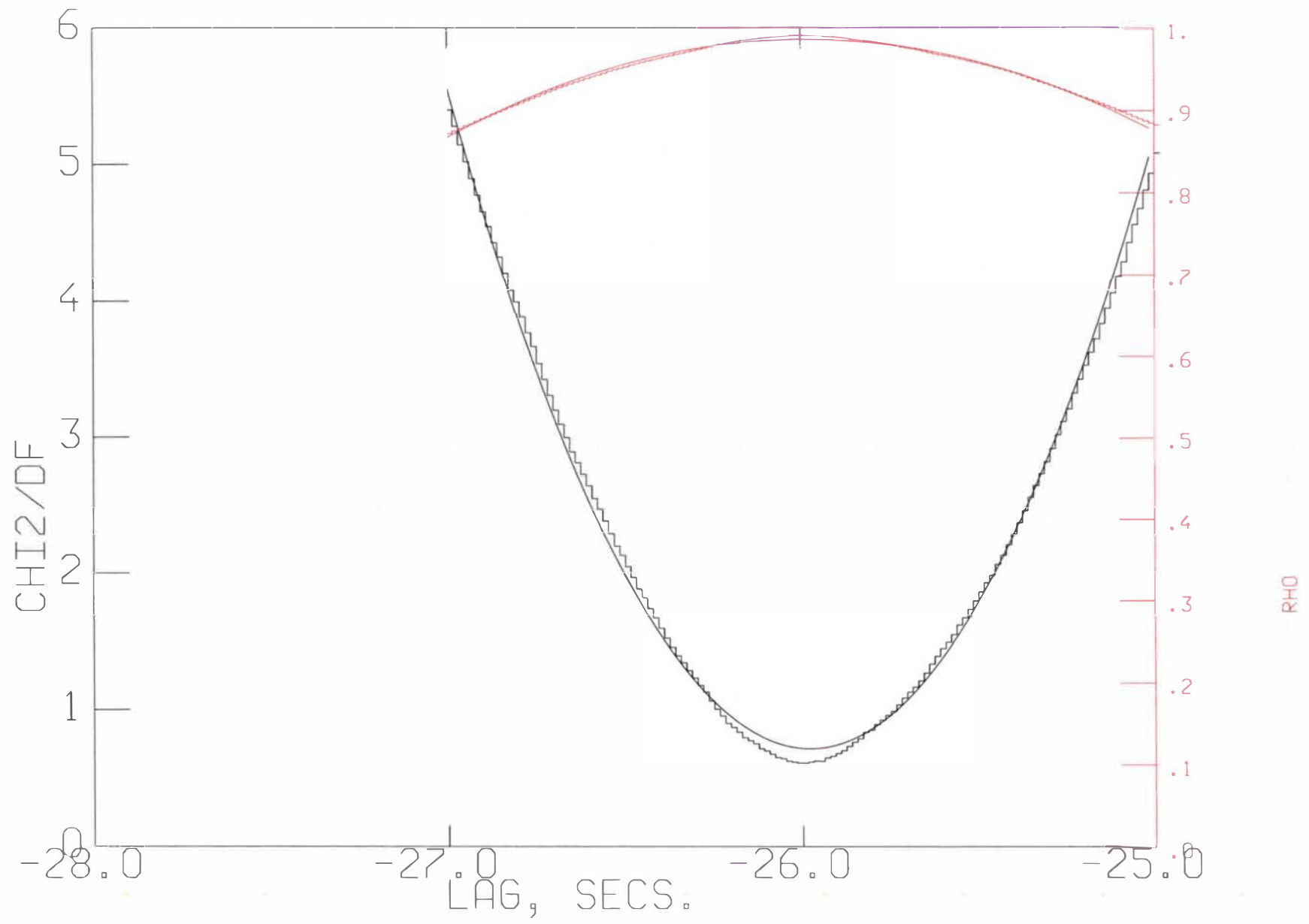


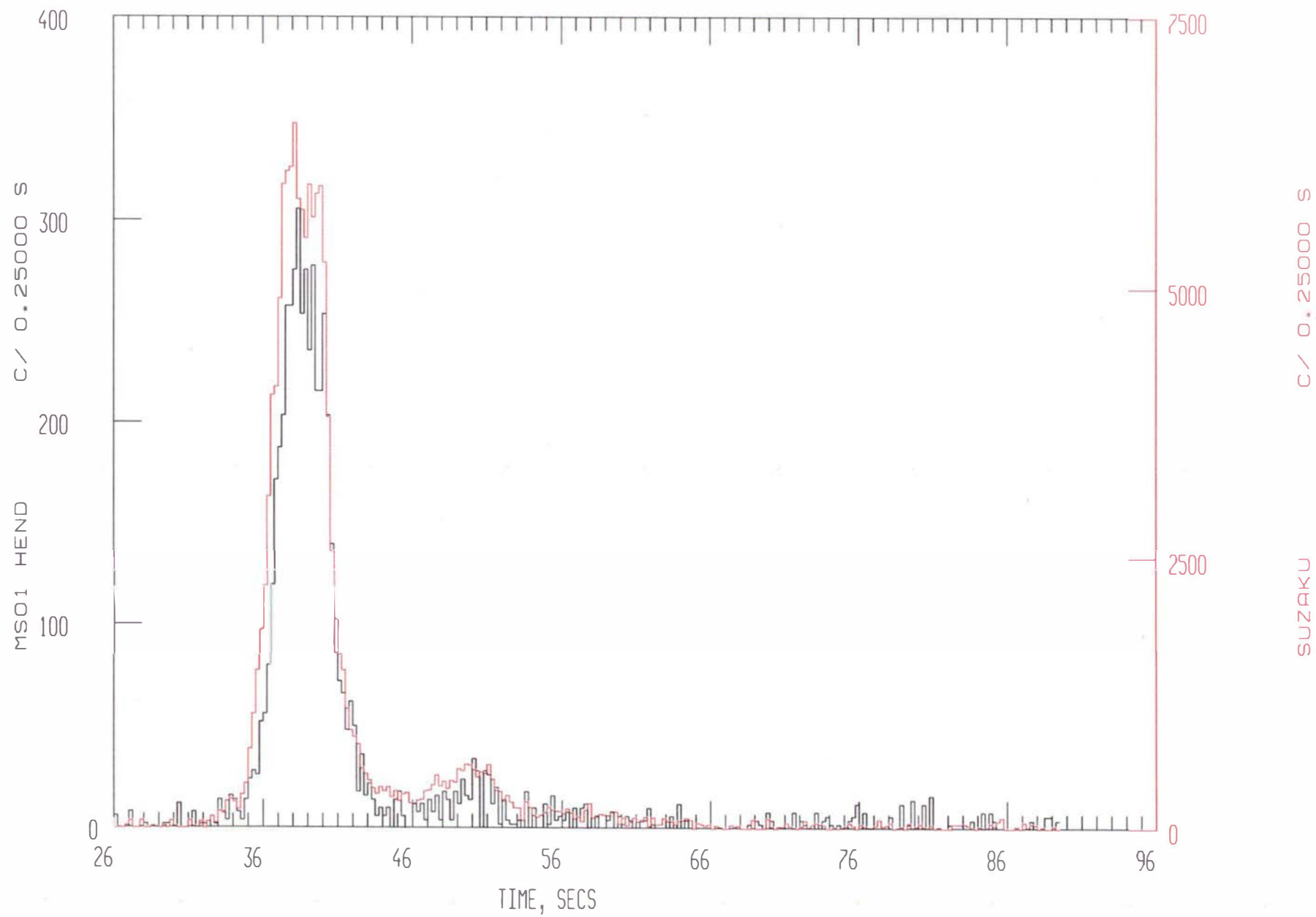
EVENT OF MAY 5, 2013 8:23

21/02/2014

N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 MO 2 SWIFT







Subject: [Ipn] Probable solar flare BAT lightcurve for trigger at 130505_1744

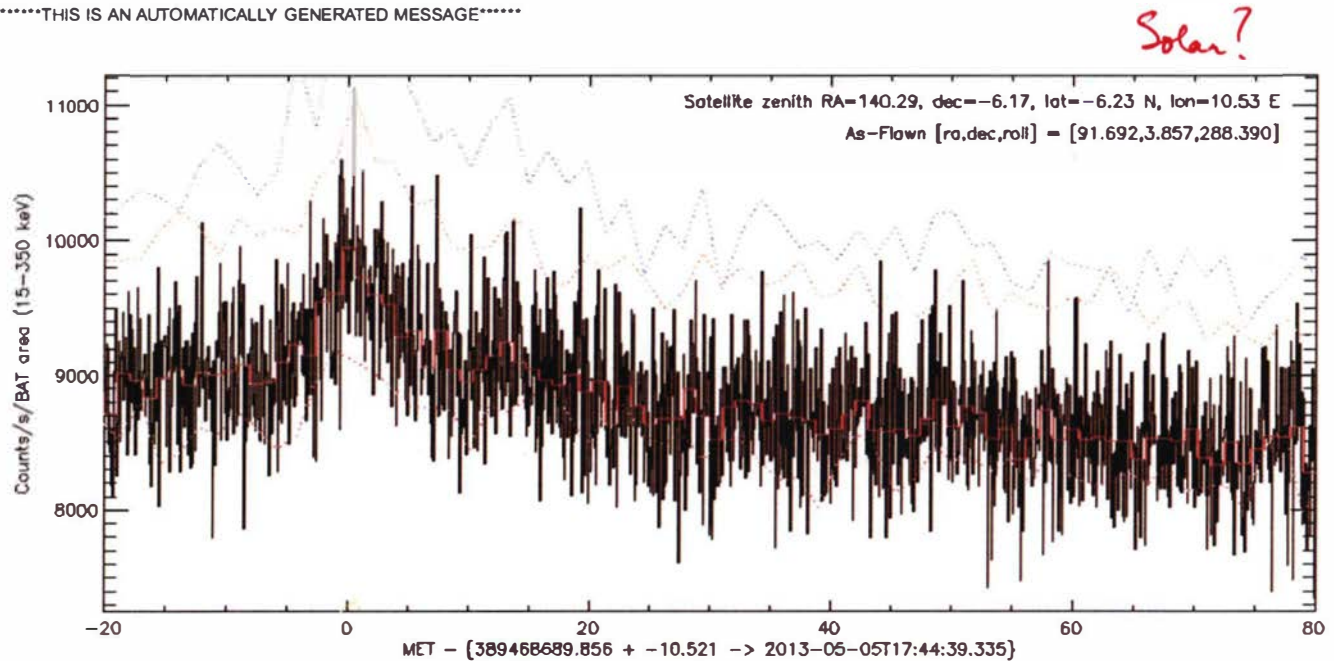
From: "Palmer, David" <palmer@lanl.gov>

Date: 5/6/2013 9:42 AM

To: Fermi GBM-BA <gbm-ba@mpe.mpg.de>, "Kippen, Marc" <mkippen@lanl.gov>, "BAT TEAM" <bat_team@bigbang.gsfc.nasa.gov>, IPN <ipn@ssl.berkeley.edu>

This is probably a solar flare, but the BAT peak occurs as a smaller solar flare started, and shows nothing when a ~100x larger solar flare started.
(In the 2000 second plot, the orange line is GOES solar log scaled to 1000 counts = 10x)

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



```
% /usr/local/bin/swinfo -o 389468689.856
```

```
Time(MET + UTCF -> UT): 389468689.856 + -10.521 -> 2013-05-05T17:44:39.335
```

```
YYMMDD_SOD: 130505_63879.335 DOY=125
```

```
Swift Zenith(RA,dec): 140.29, -6.17
```

```
Swift Location(lon,lat,alt): 10.53 E, -6.23 N, 574 km
```

```
Obs Sequence Number: 00020267001
```

```
Obs Target Name:
```

```
Obs Date and Times: 2013-05-05 17:41:51 - 17:54:50
```

```
Obs Pointing(ra,dec,roll): 91.692, 3.857, 288.39
```

--

David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA/Correspondence

Ipn mailing list

ipn@ssl.berkeley.edu

<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

_tmp_130505_1744_bat64ms_ipn

91.6 KB

orbitplots2013125 (dragged).pdf

25.3 KB

From ipn-bounces@ssl.berkeley.edu Mon May 6 09:43:44 2013
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.237
v-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Original-To: ipn@lists.ssl.berkeley.edu
X-Barracuda-BBL-Trusted-Forwarder: 128.32.13.252
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.252
X-Barracuda-Apparent-Source-IP: 128.32.147.8
X-Barracuda-BBL-IP: 128.32.147.8
X-Barracuda-RBL-IP: 128.32.147.8
X-Barracuda-BWL-IP: 204.121.3.53
X-NIE-2-Virus-Scanner: amavisd-new at mailrelay2.lanl.gov
From: "Palmer, David" <palmer@lanl.gov>
To: Fermi GBM-BA <gbm-ba@mpg.mpg.de>, "Kippen, Marc" <mkippen@lanl.gov>,
"BAT
TEAM" <bat_team@bigbang.gsfc.nasa.gov>, IPN <ipn@ssl.berkeley.edu>
Date: Mon, 6 May 2013 16:42:28 +0000
Accept-Language: en-US
Content-Language: en-US
Subject: [Ipn] Probable solar flare BAT lightcurve for trigger at 130505_1744
X-Barracuda-BRTS-Status: 1

This is probably a solar flare, but the BAT peak occurs as a smaller solar flare started, and shows nothing when a ~100x larger solar flare started. (In the 2000 second plot, the orange line is GOES solar log scaled to 1000 counts = 10x)

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

`cid:4e984aea-4763-46ee-9fc6-f98d0283b66d@win.lanl.gov]

% /usr/local/bin/swinfo -o 389468689.856
Time(MET + UTCF -> UT): 389468689.856 + -10.521 -> 2013-05-05T17:44:39.335
YYMMDD_SOD: 130505_63879.335 DOY=125
Swift Zenith(RA,dec): 140.29, -6.17
Swift Location(lon,lat,alt): 10.53 E, -6.23 N, 574 km
Obs Sequence Number: 00020267001
Obs Target Name:
Obs Date and Times: 2013-05-05 17:41:51 - 17:54:50
Obs Pointing(ra,dec,roll): 91.692, 3.857, 288.39

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA/Correspondence

KONUS1

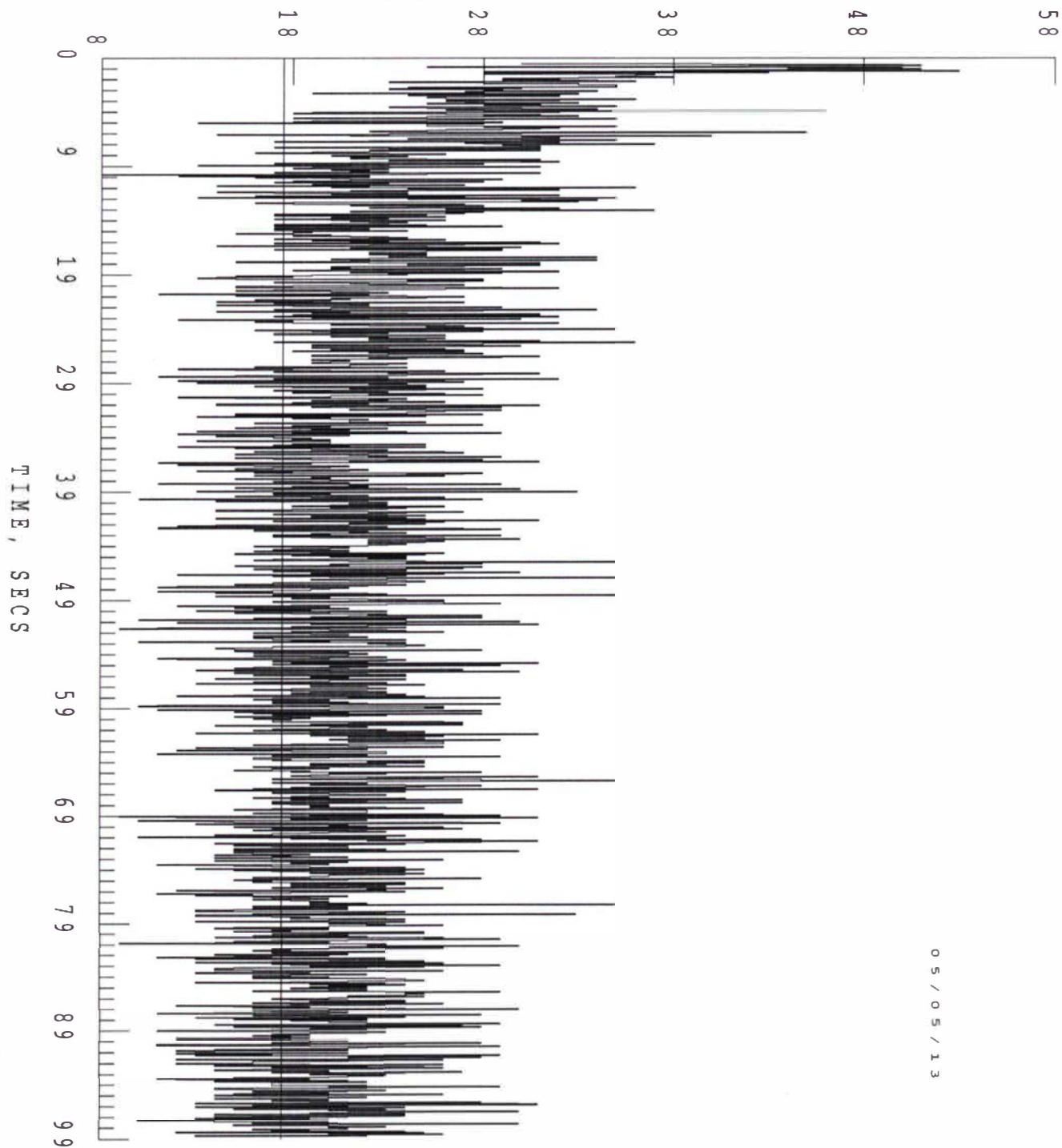
05/05/13

82516.976

CB

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20130505 82516

TRIGGER TIME: 05/05/13 DOY 125 Julian 2456419.45505 UT = 22.921 22:55:16 (82516.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

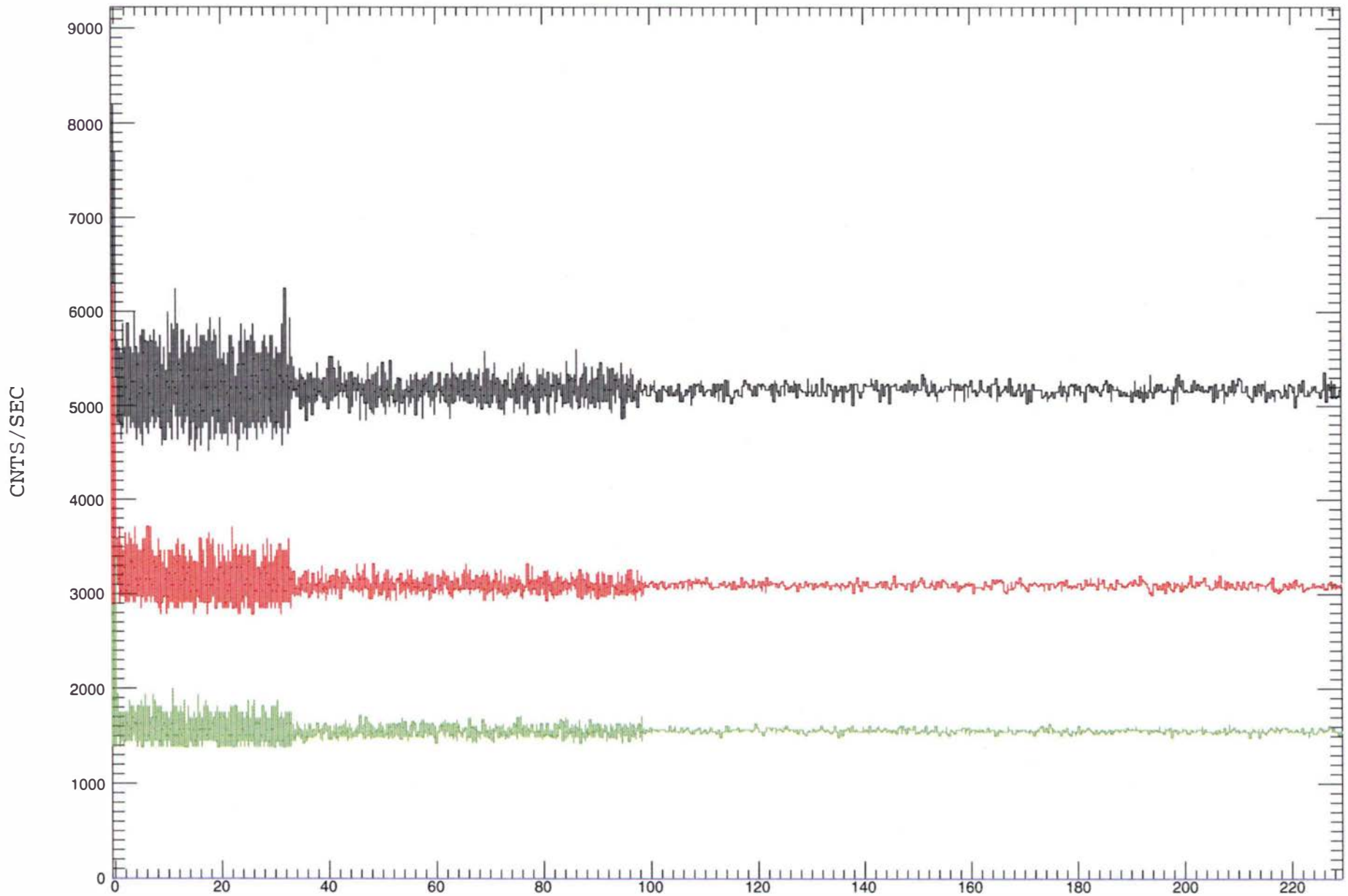
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



SECONDS

MS01

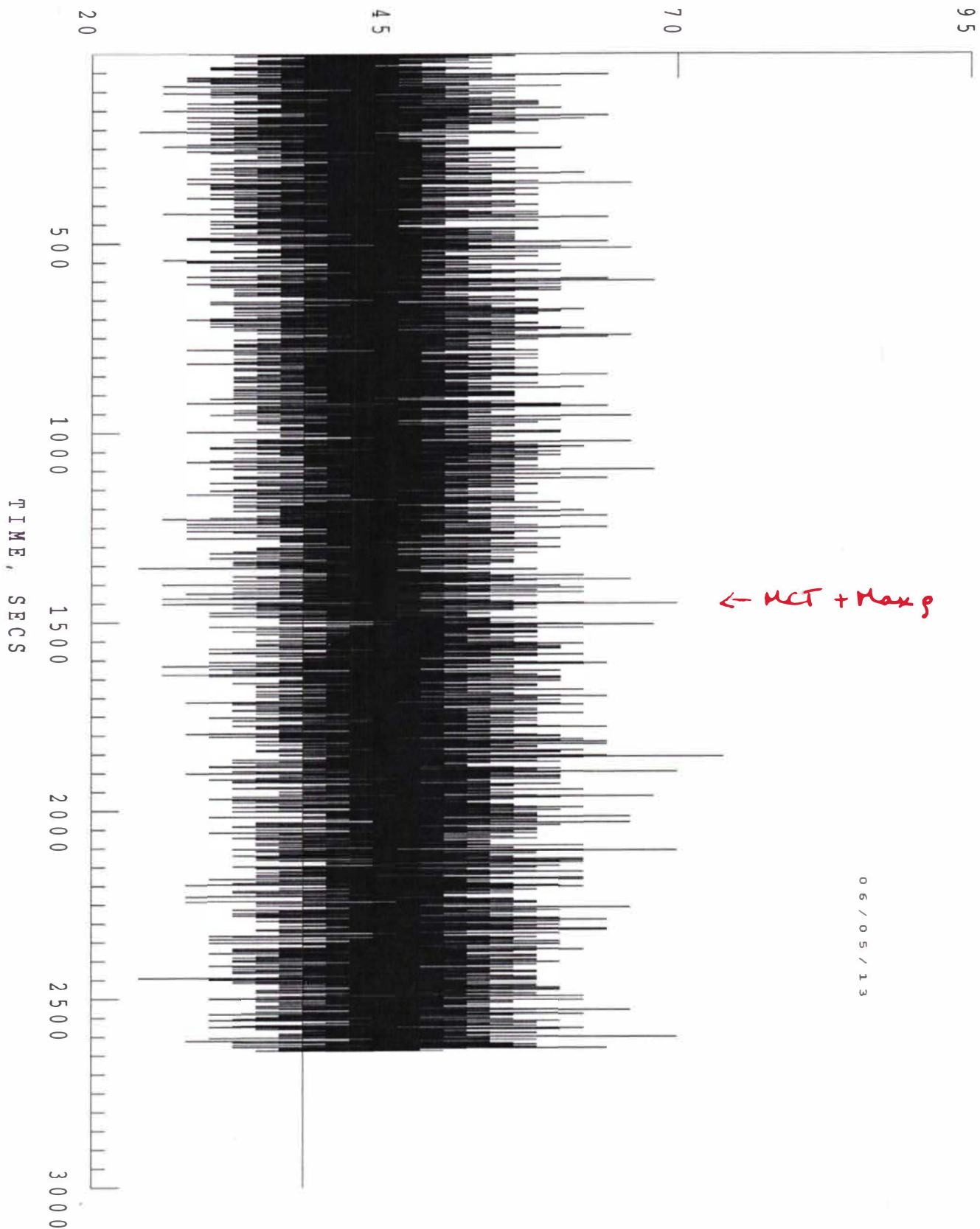
05/05/13

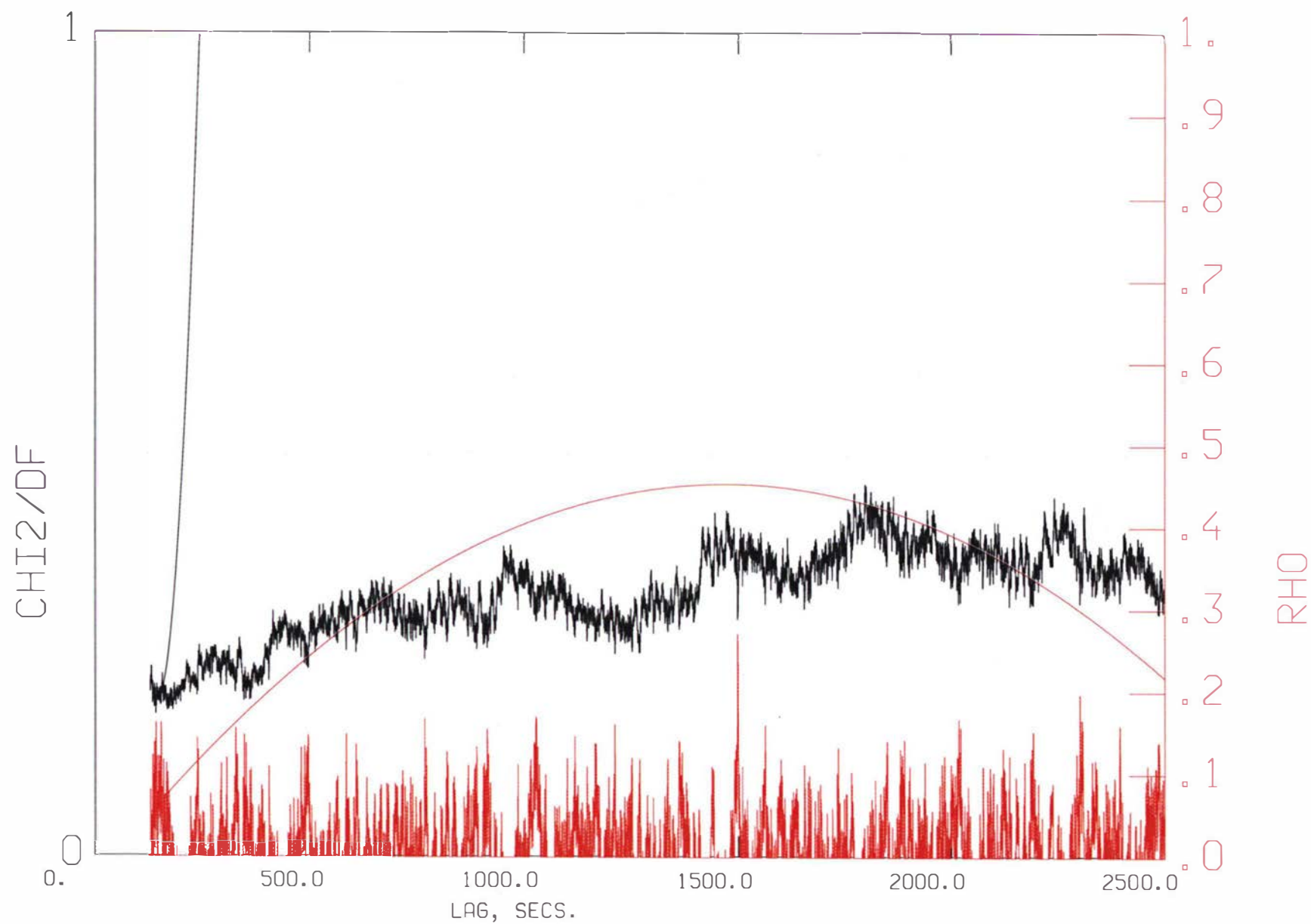
81162.835

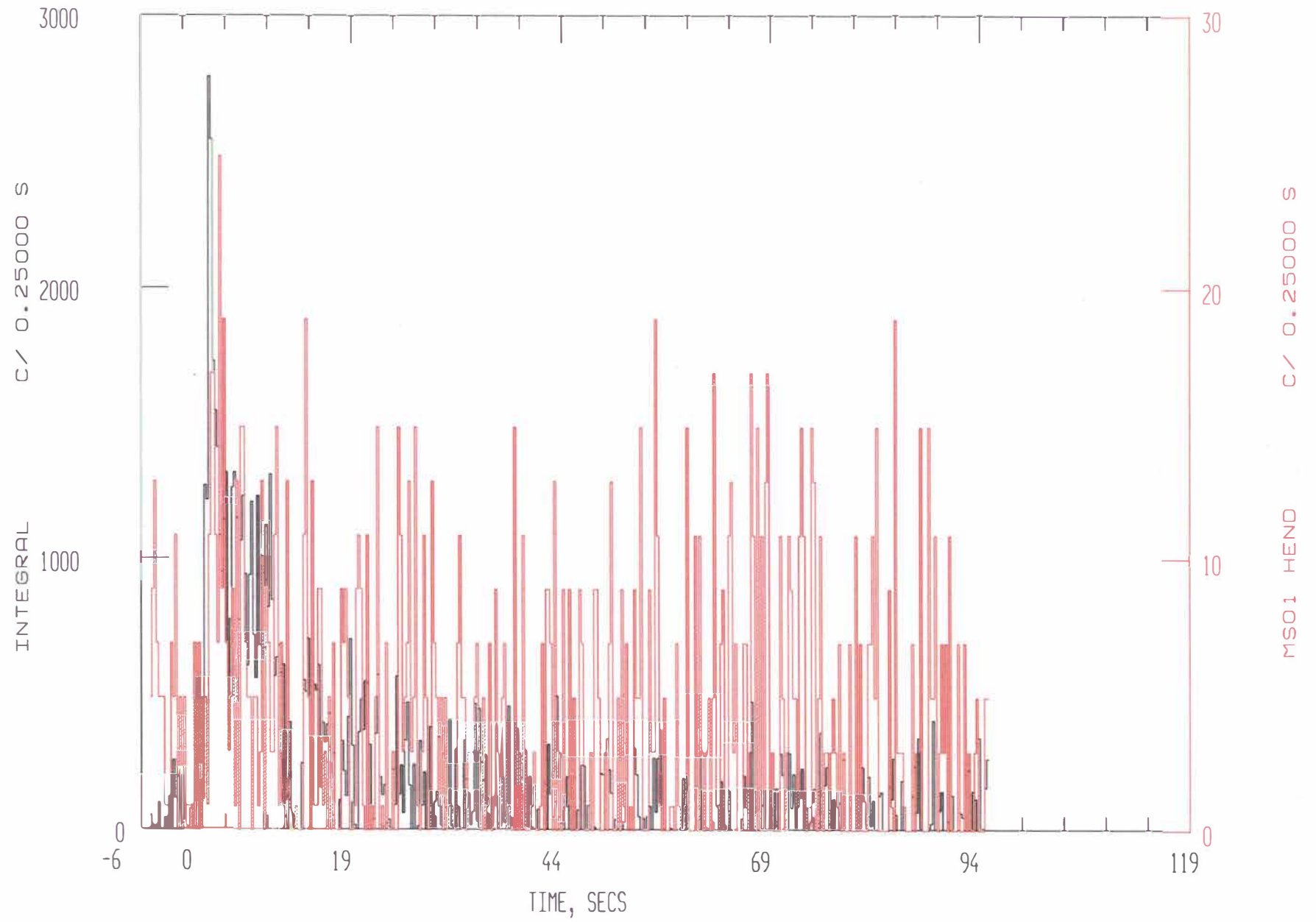
C B

50 - 3000 keV

COUNTS/0.250 S







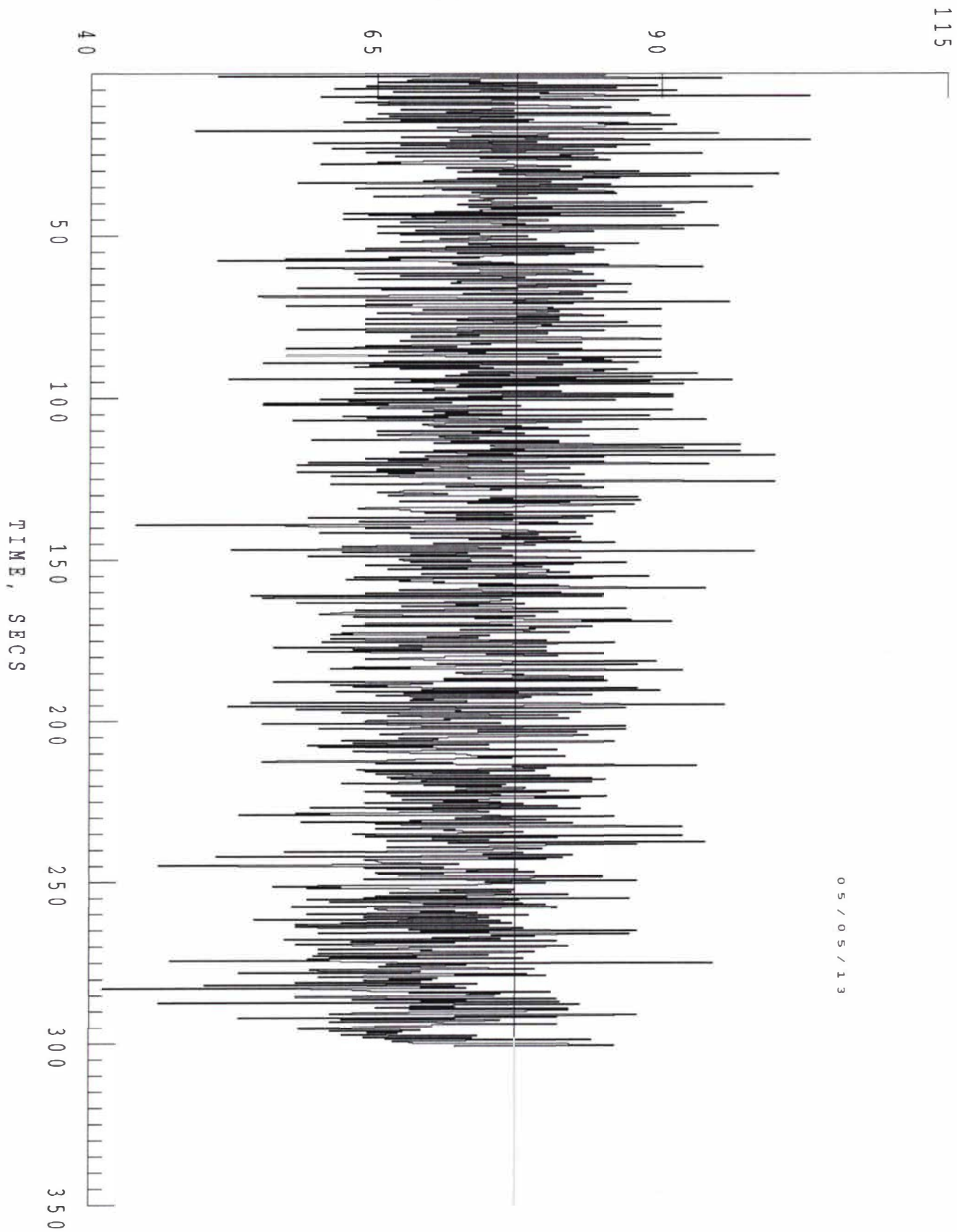
HESSI

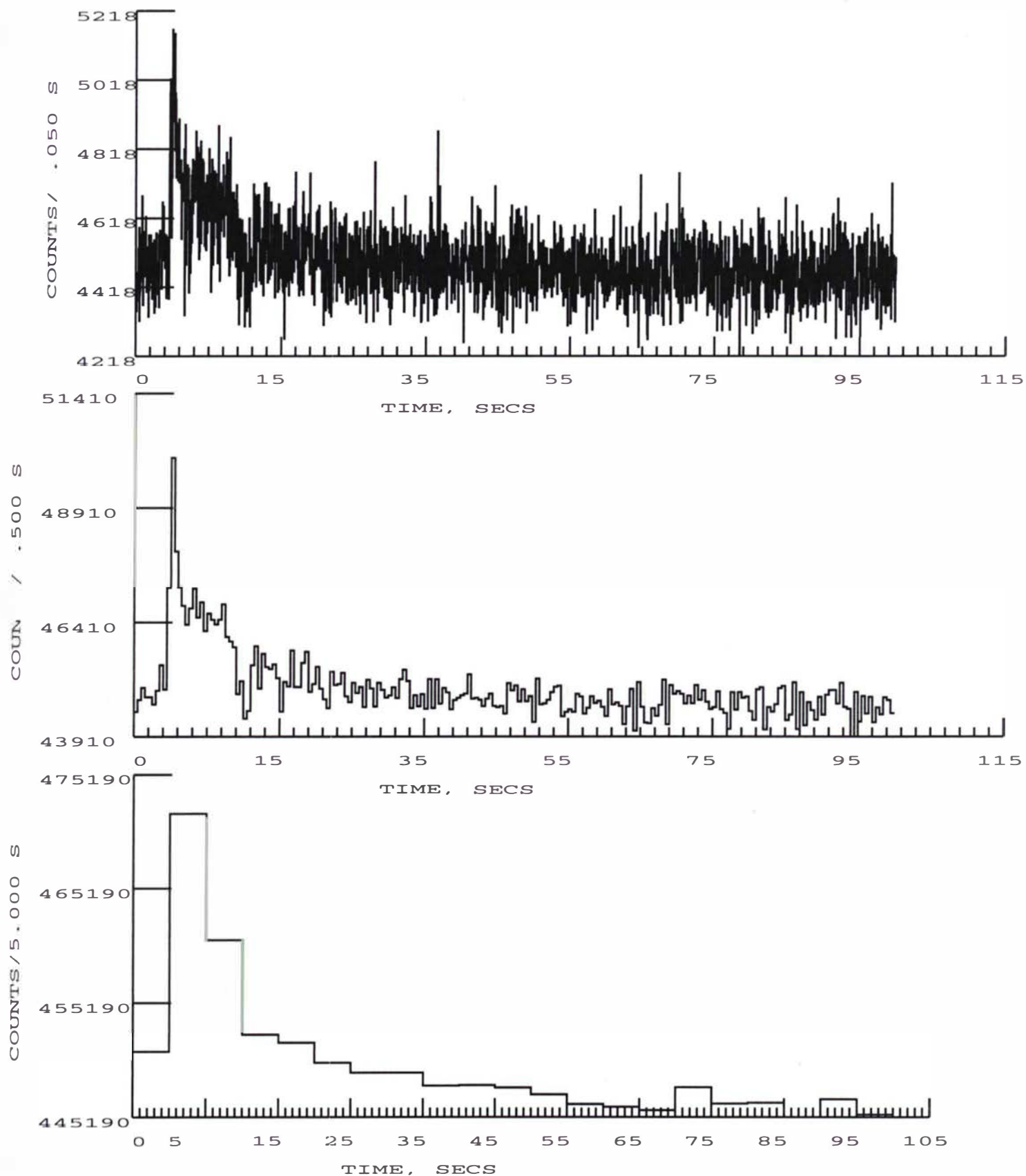
05/05/13 82365.000 (KONUS1_20130505_82516)

C 8

25- 150 keV

COUNTS/0.250 S





INTEGRAL

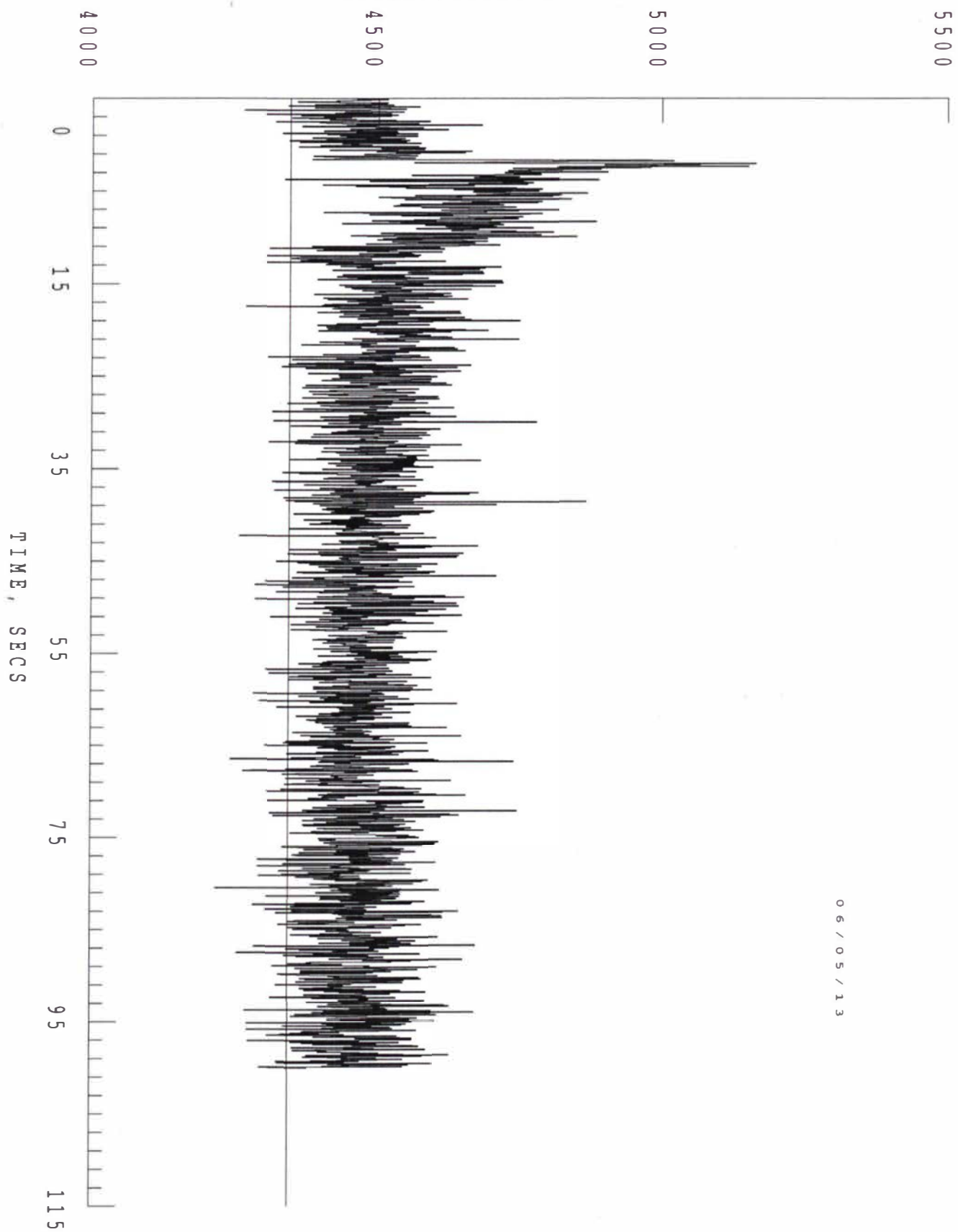
05/05/13

82514.499

C8

100-10000 keV

COUNTS/0.050 S



Subject: [Ipn] BAT lightcurve for trigger at 130505_2255

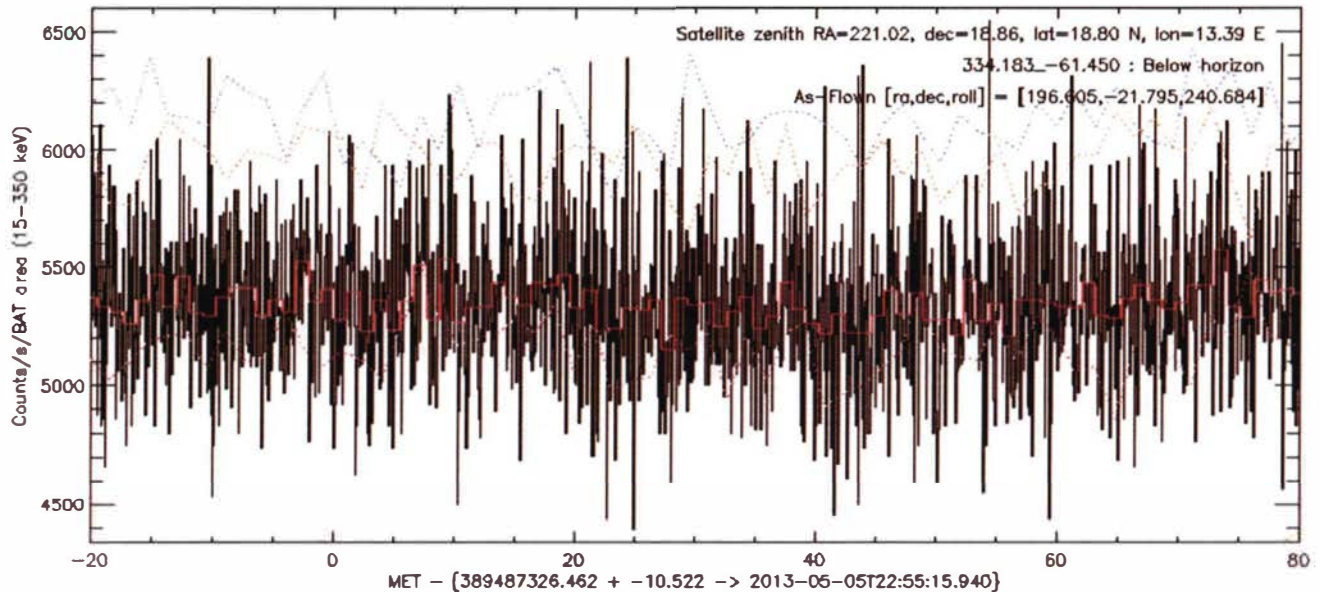
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/5/2013 11:44 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130505_2255.png



```
% /usr/local/bin/swinfo -o 389487326.462 -s 334.183_-61.450
Time(MET + UTC -> UT): 389487326.462 + -10.522 -> 2013-05-05T22:55:15.940
YYMMDD_SOD: 130505_82515.940 DOY=125
Swift Zenith(RA,dec): 221.02, 18.86
Swift Location(lon,lat,alt): 13.39 E, 18.80 N, 564 km
Obs Sequence Number: 00032810001
Obs Target Name: PKS 1304-215
Obs Date and Times: 2013-05-05 22:43:22 - 23:04:48
Obs Pointing(ra,dec,roll): 196.605, -21.795, 240.68
334.183_-61.450_imageloc (boresight_dist, angle): (90, -169)
334.183_-61.450_exposure (cm^2 cos adjusted): 0
334.183_-61.450_altitude: -4 (down)
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130505_2255_bat64ms_ipn

87.0 KB

/tmp/130505_2255.png

20.3 KB

23/10/13

MESSENGER

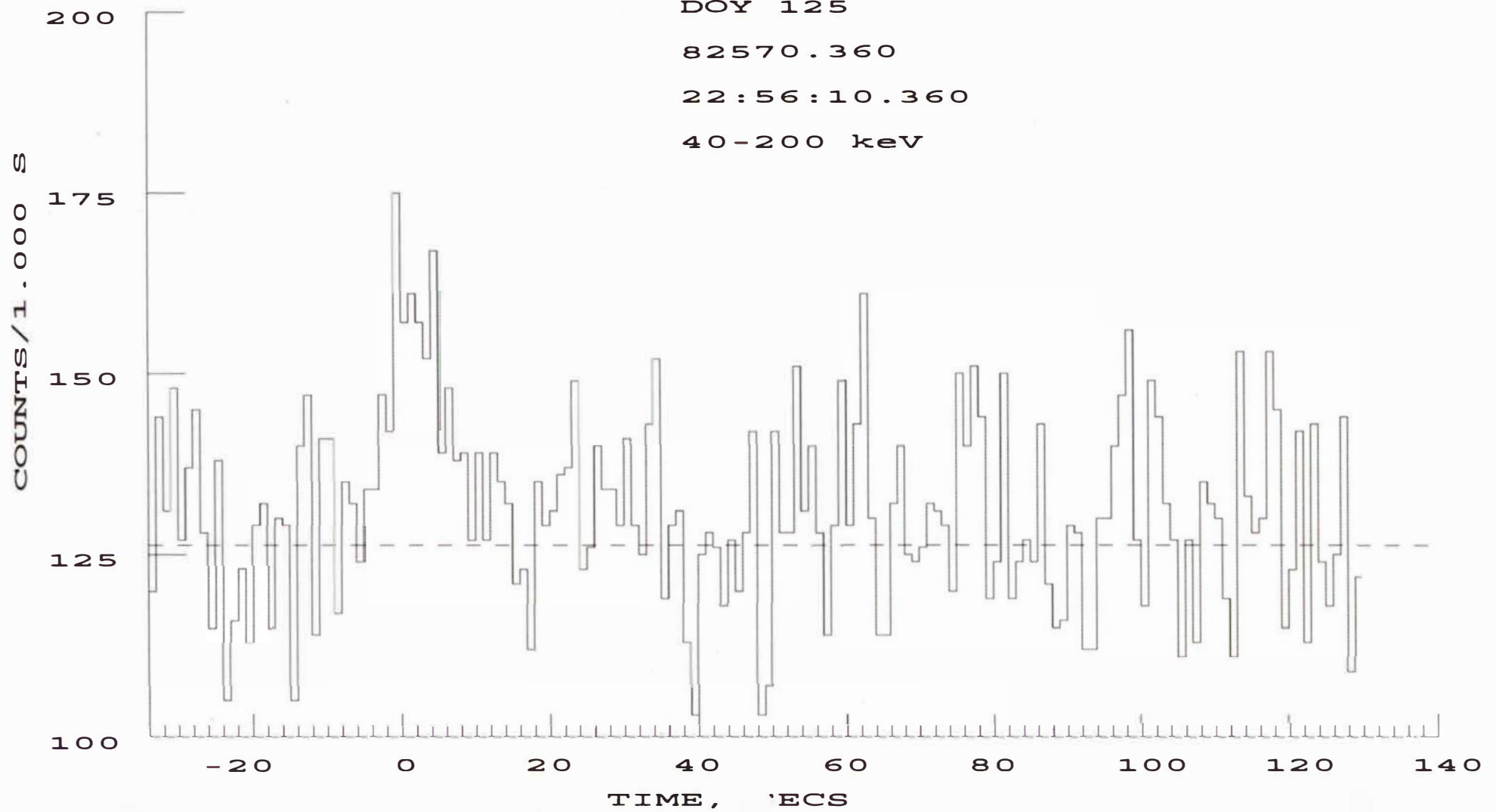
05/05/13

DOY 125

82570.360

22:56:10.360

40-200 keV



GLAST

05/05/13

82515.943

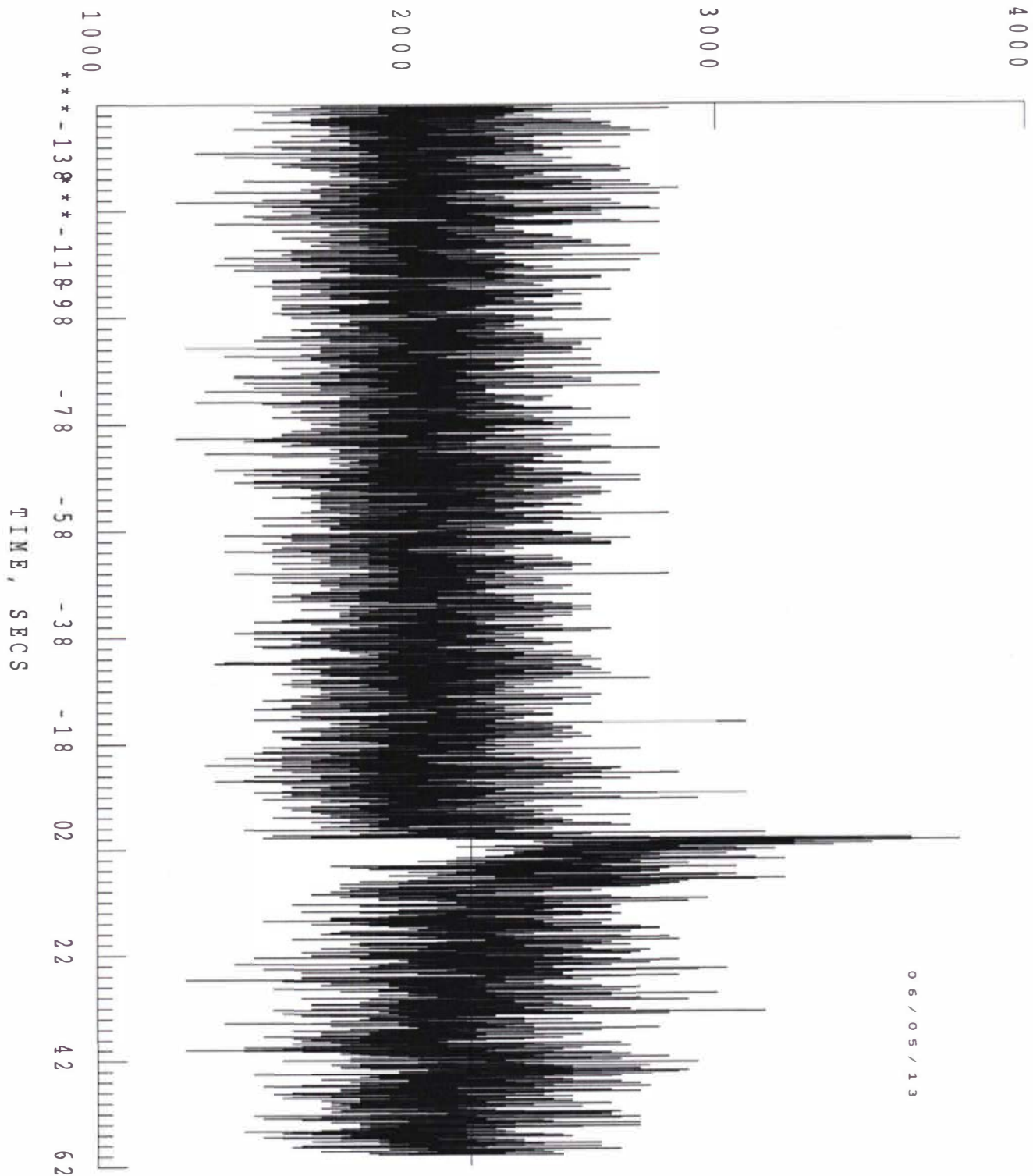
22:55:15

C8

26- 293 keV

344.47 -70.47 1.5

COUNTS/0.032 S



From gcncirc@capella2.gsfc.nasa.gov Mon May 6 02:23:15 2013
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 130505B: MAXI/GSC detection
To: khurley@ssl.berkeley.edu
Date: Mon, 6 May 2013 05:23:13 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

Unrelated

TITLE: GCN CIRCULAR
NUMBER: 14586
SUBJECT: GRB 130505B: MAXI/GSC detection
DATE: 13/05/06 09:23:09 GMT
FROM: Motoko Suzuki at RIKEN <motoko@crab.riken.jp>

M. Serino (RIKEN), H. Negoro (Nihon U.),
S. Ueno, H. Tomida, S. Nakahira, M. Kimura, M. Ishikawa (JAXA),
T. Mihara, M. Sugizaki, M. Morii, T. Yamamoto, J. Sugimoto, T. Takagi, M. Matsuo
N. Kawai, R. Usui, K. Ishikawa, T. Yoshii (Tokyo Tech),
A. Yoshida, T. Sakamoto, Y. Nakano, Y. Kawakubo (AGU),
H. Tsunemi, M. Sasaki (Osaka U.),
M. Nakajima, T. Onodera, K. Fukushima, K. Suzuki (Nihon U.),
Y. Ueda, M. Shidatsu, T. Kawamuro (Kyoto U.),
Y. Tsuboi, M. Higa (Chuo U.),
M. Yamauchi, K. Yoshidome, Y. Ogawa, H. Yamada (Miyazaki U.),
K. Yamaoka (Nagoya U.) report on behalf of the MAXI team

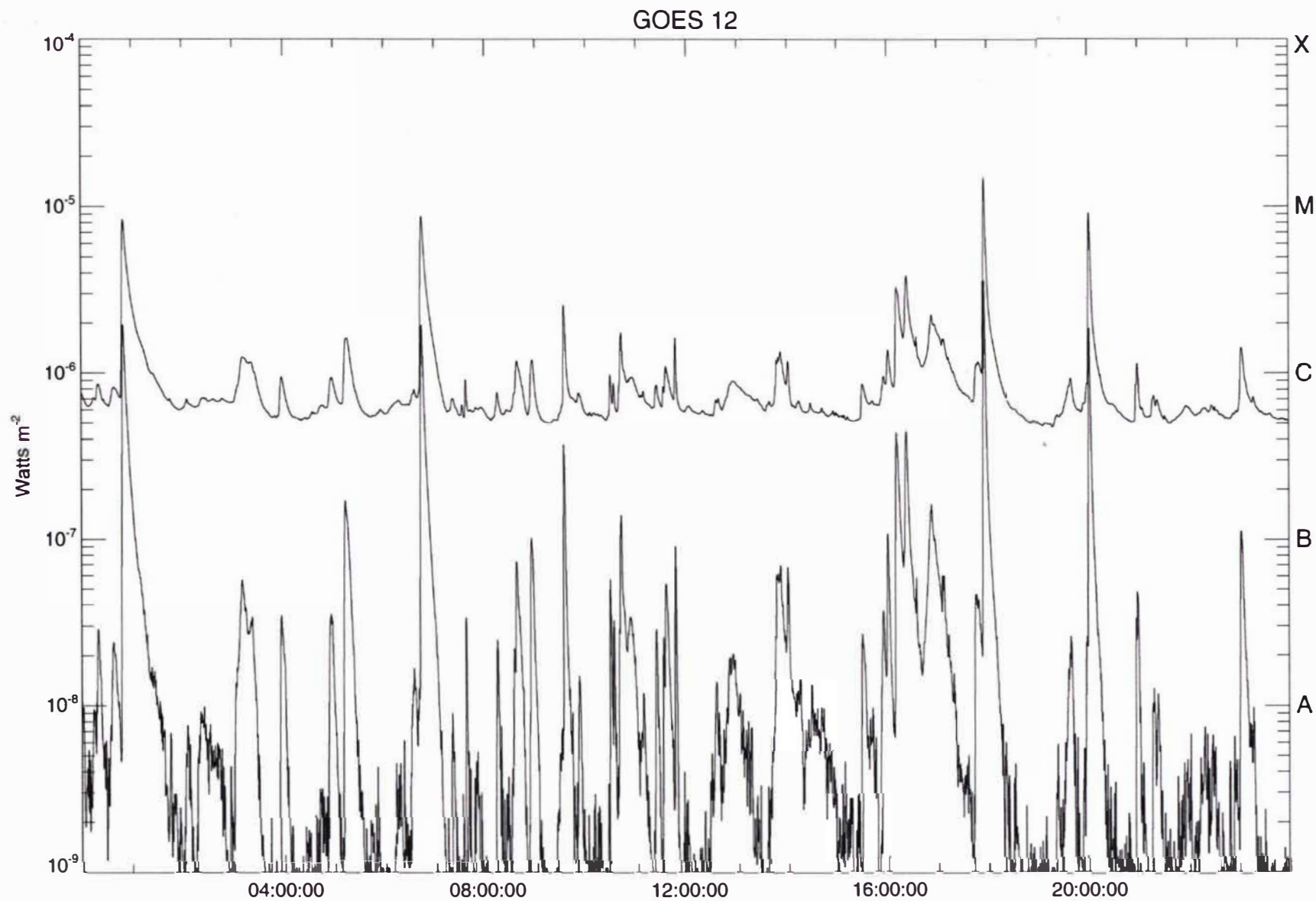
At 2013-05-05T23:54⁸⁶⁰⁴⁰ UT, the MAXI/GSC detected an uncatalogued X-ray
transient source. Assuming a constant source flux over the scan transit,
we obtain the source position at

(R.A., Dec.) = (139.500 deg 1.500 deg) = (09 18 00, +01 30 00) (J2000)

with a 90% C.L. statistical error of 0.3 deg and an additional systematic
uncertainty of 0.1 deg (90% containment radius).

The averaged X-ray flux was 160 +/- 40 mCrab (4-10 keV).

There were no significant excess fluxes at the previous
and followed scan transits at 2013/05/05 22:20 UT and 2013/05/06 01:26 UT, respec-
tively with an upper limit of 20 mCrab for each.



Data Start: 13/05/05, 0000:12

Plot created: 13/05/08, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: [Ipn] BAT lightcurve for trigger at 130506_0046

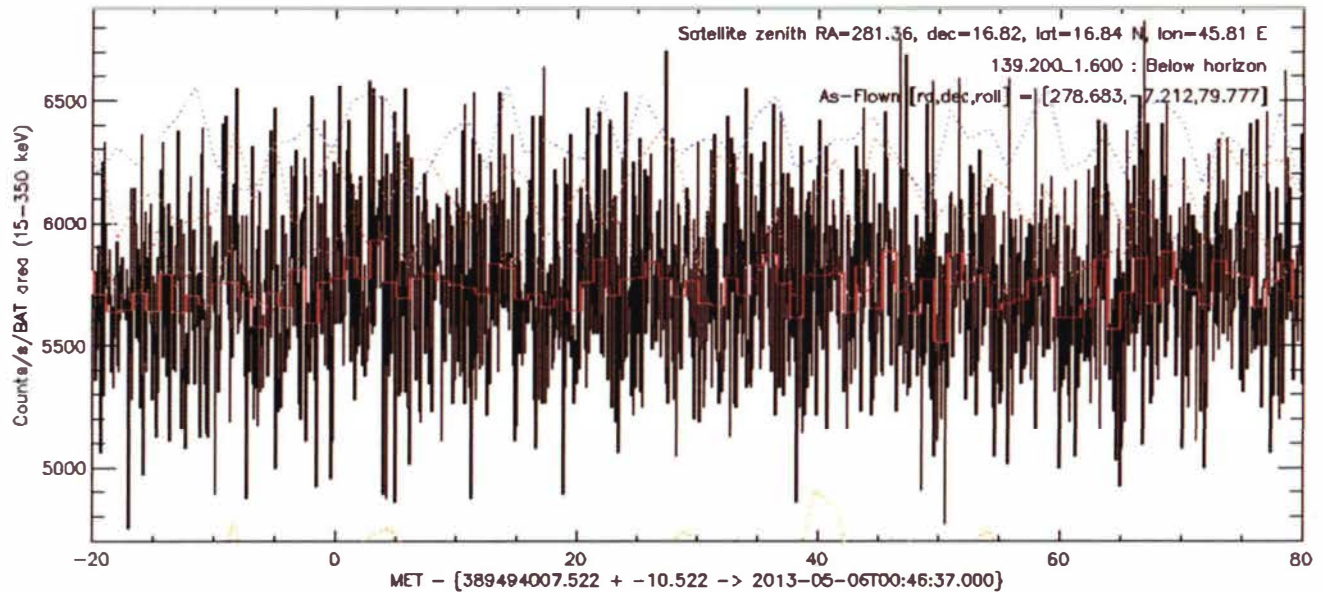
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/6/2013 12:16 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130506_0046.png



```
% /usr/local/bin/swinfo -o 389494007.522 -s 139.200_1.600
Time(MET + UTCF -> UT): 389494007.522 + -10.522 -> 2013-05-06T00:46:37.000
YYMMDD_SOD: 130506_02797.000 DOY=126
Swift Zenith(RA,dec): 281.36, 16.82
Swift Location(lon,lat,alt): 45.81 E, 16.84 N, 570 km
Obs Sequence Number: 00041816003
Obs Target Name: 1FGL J1834.7-0709
Obs Date and Times: 2013-05-06 00:43:51 - 00:48:47
Obs Pointing(ra,dec,roll): 278.683, -7.212, 79.78
139.200_1.600_imageloc (boresight_dist, angle): (139, 94)
139.200_1.600_exposure (cm^2 cos adjusted): 0
139.200_1.600_altitude: -25 (down)
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130506_0046.png

22.2 KB

/tmp/130506_0046_bat64ms_ipn

87.0 KB

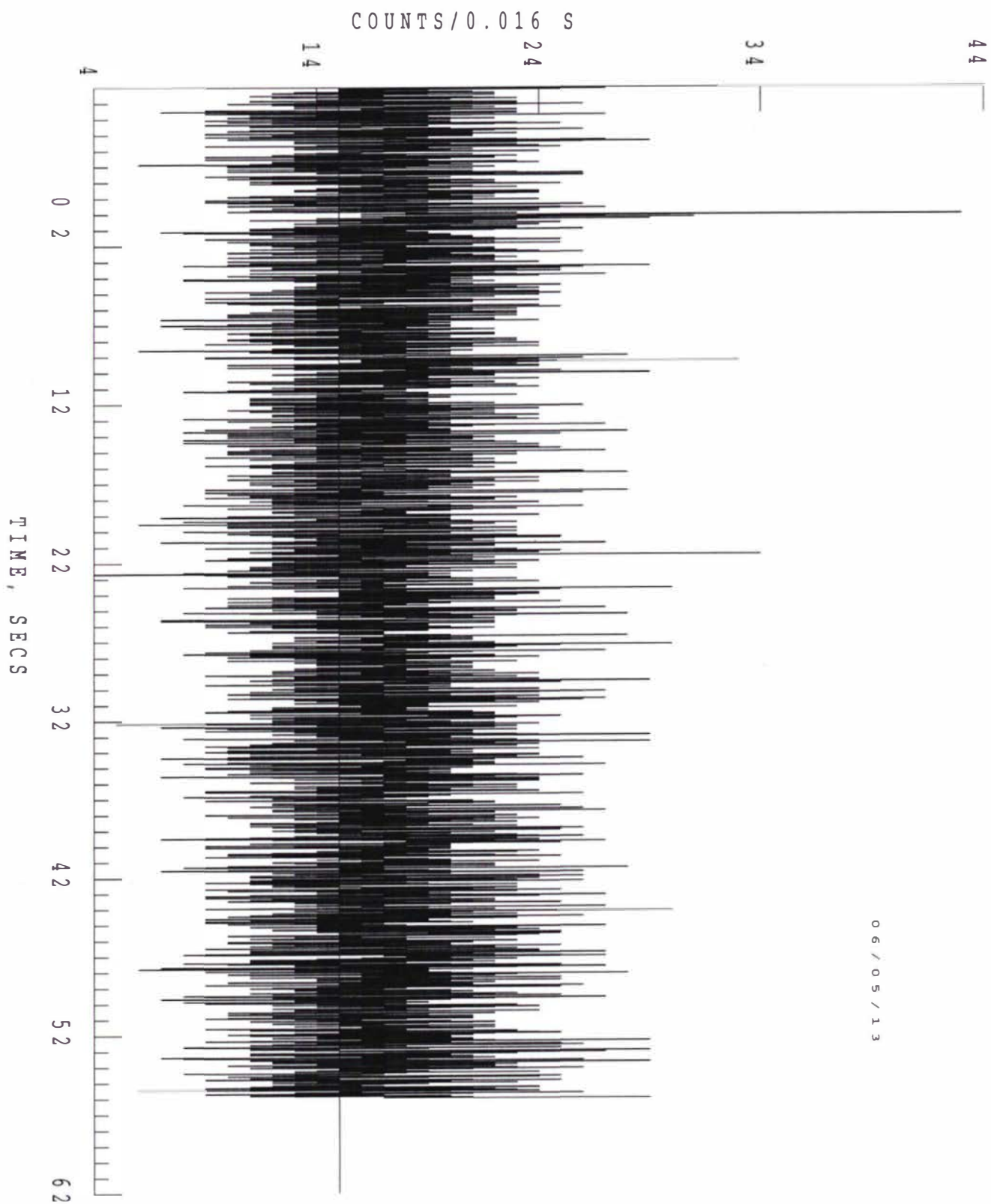
SUZAKU

06/05/13

39677.988

11:01:17

50- 240 keV

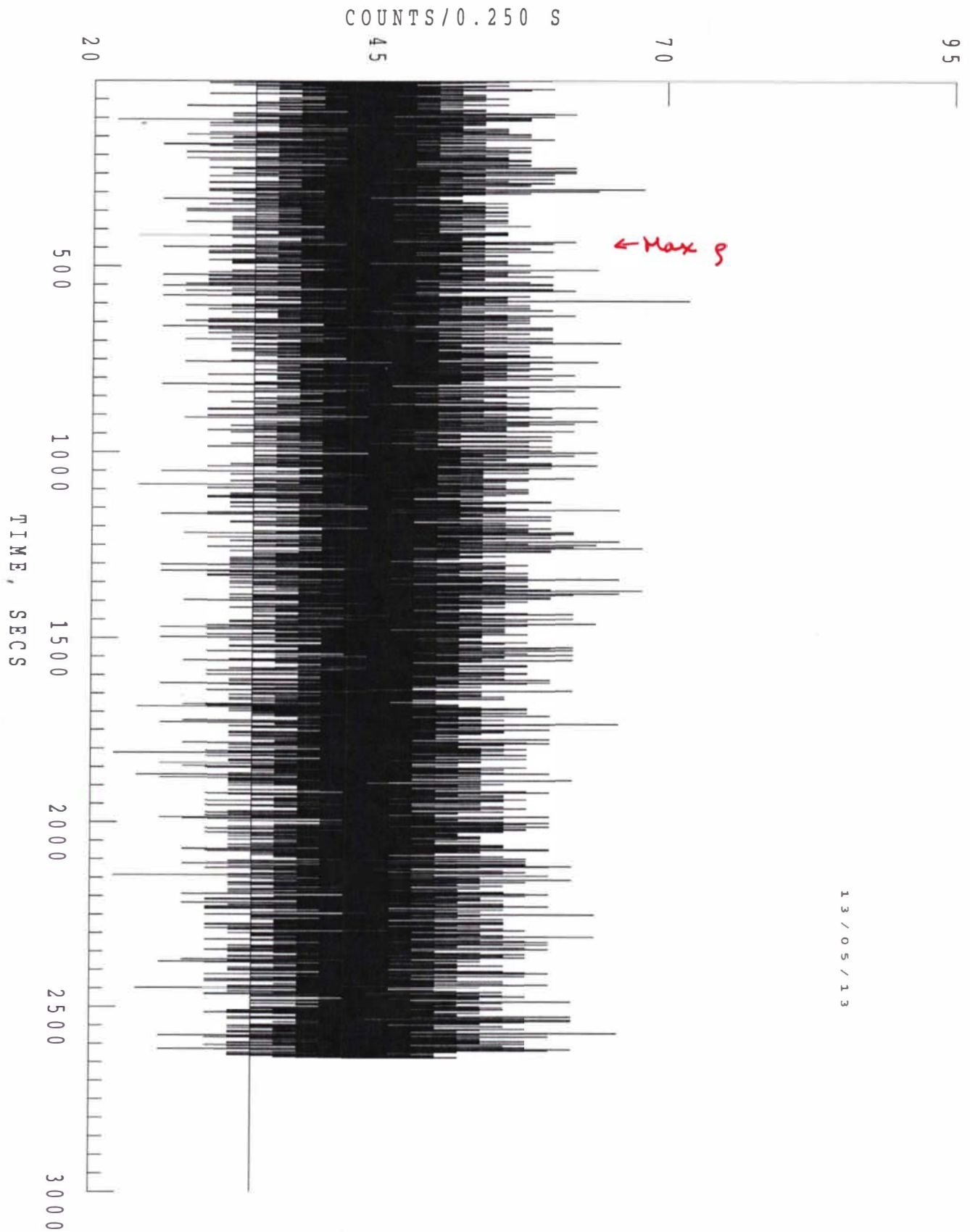


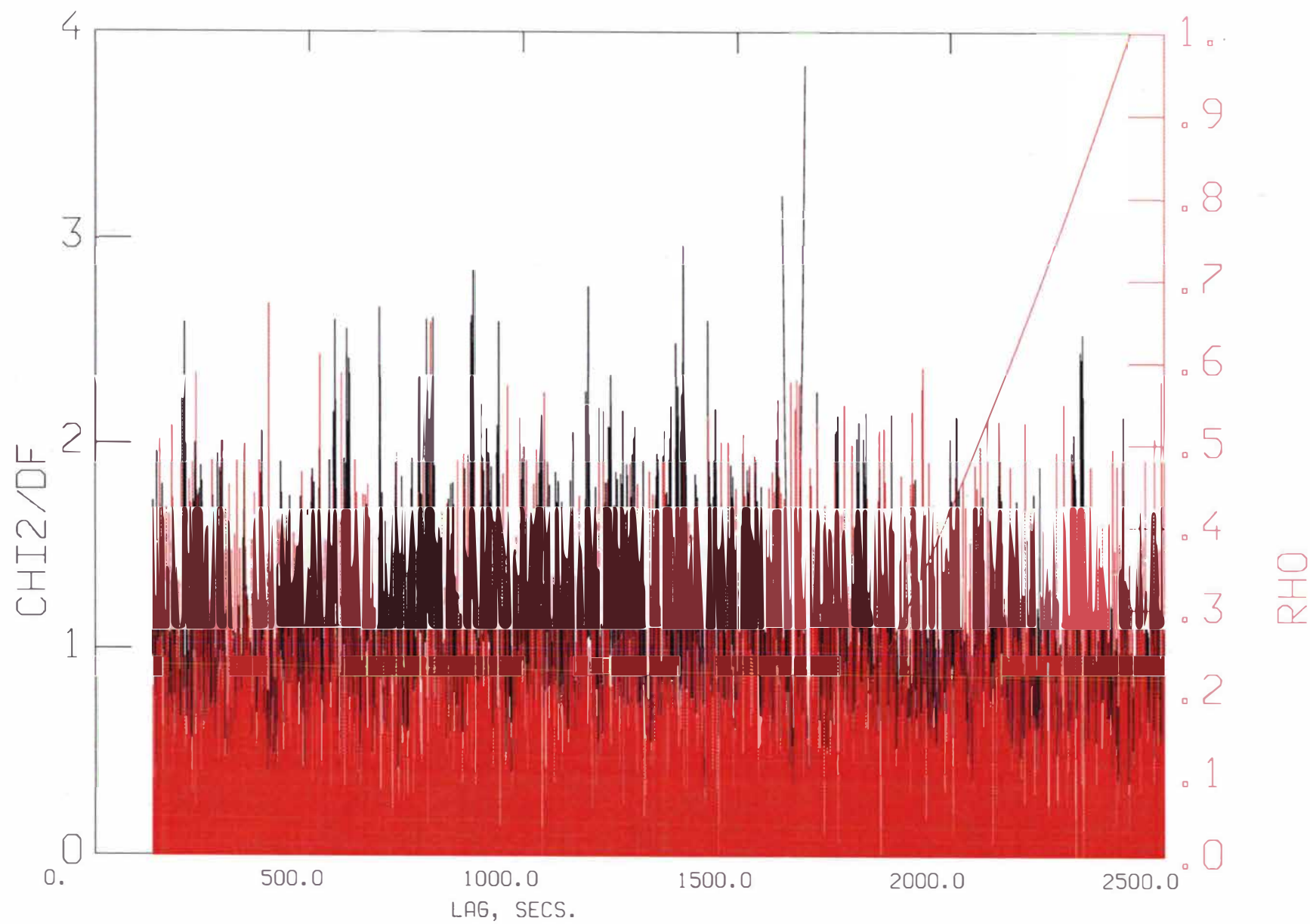
MS01

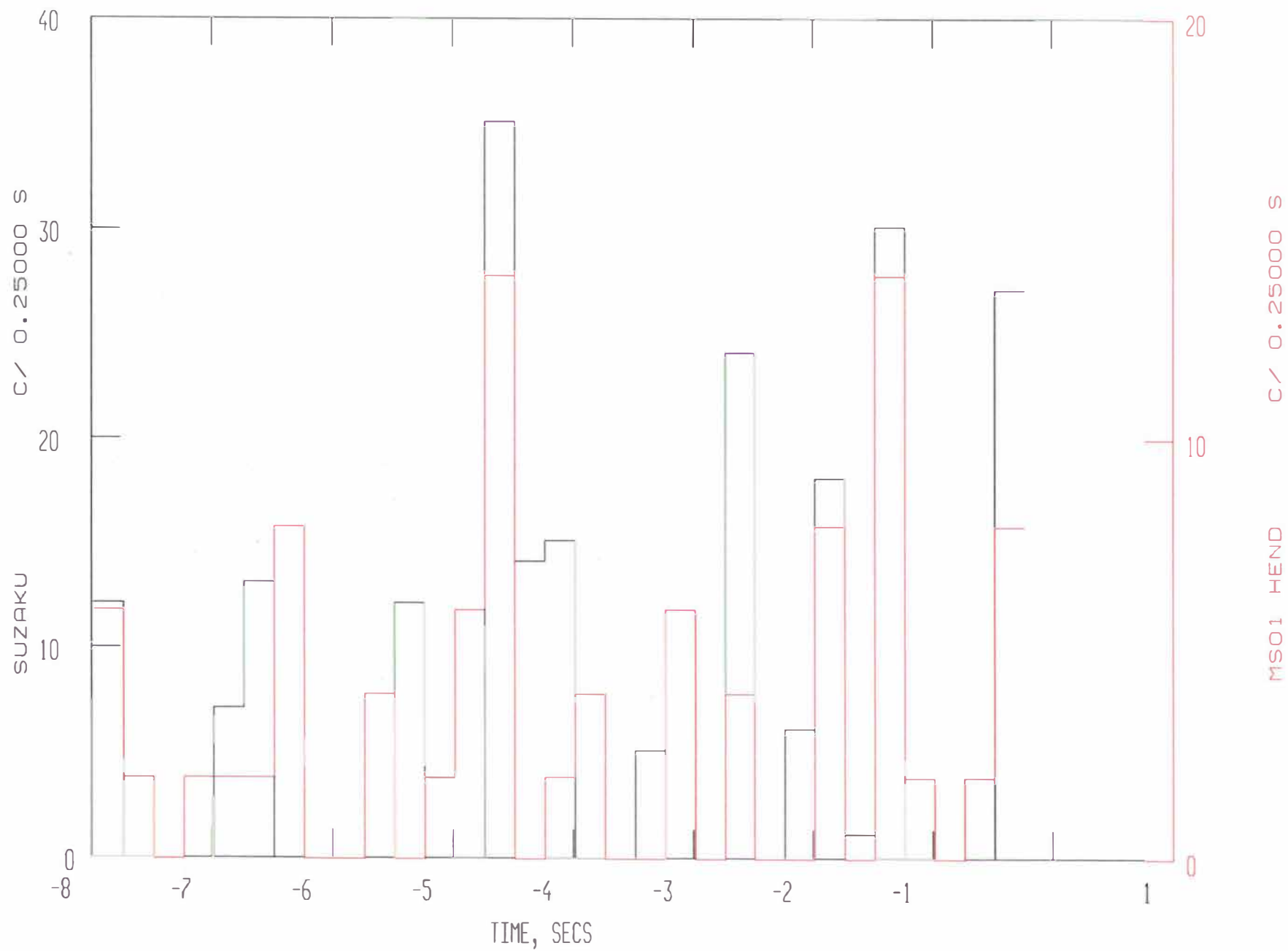
06/05/13

38322.111

50 - 3000 keV



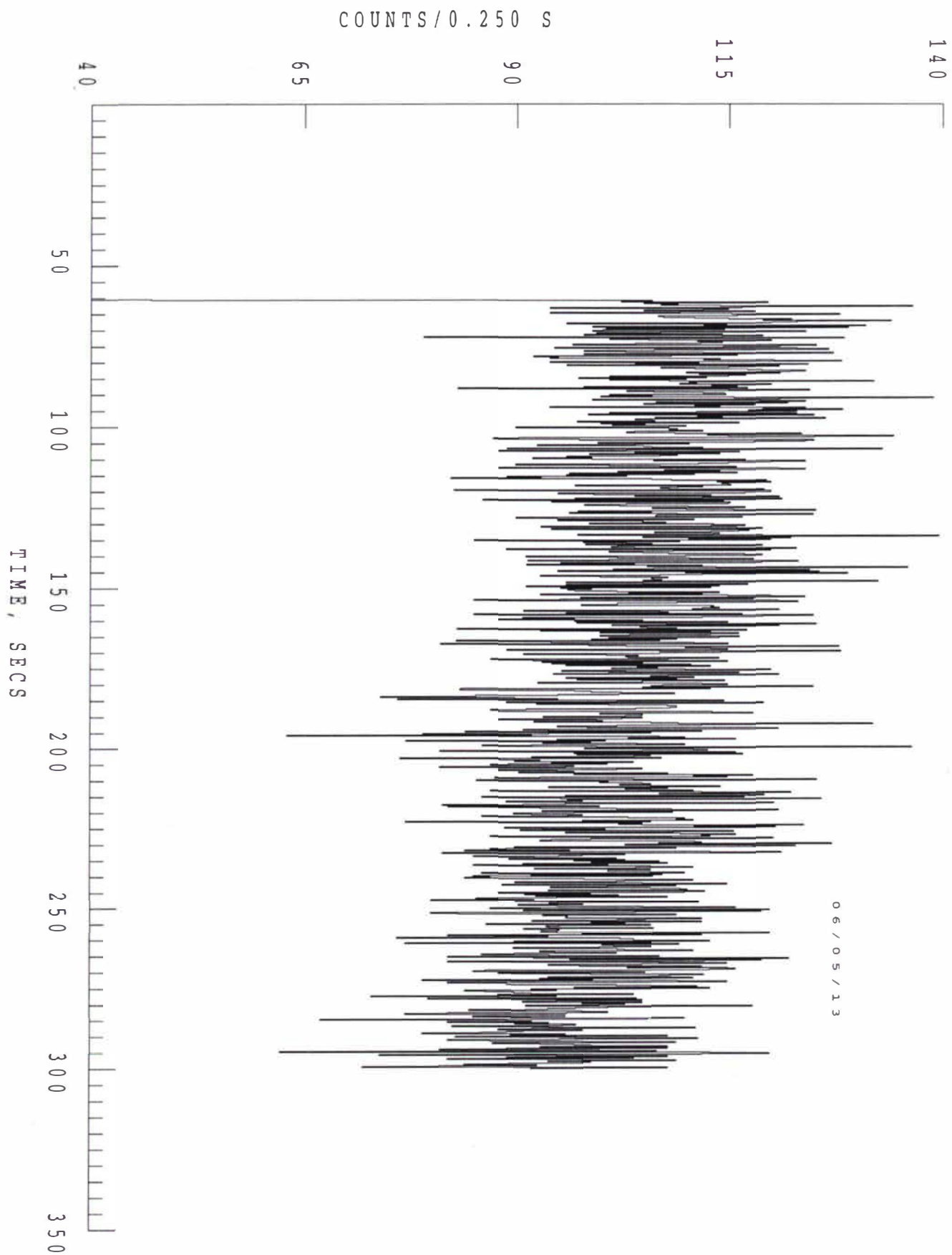




HESSI

06/05/13 39527.000 (SUZAKU_20130506_39677)

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 130506_1101

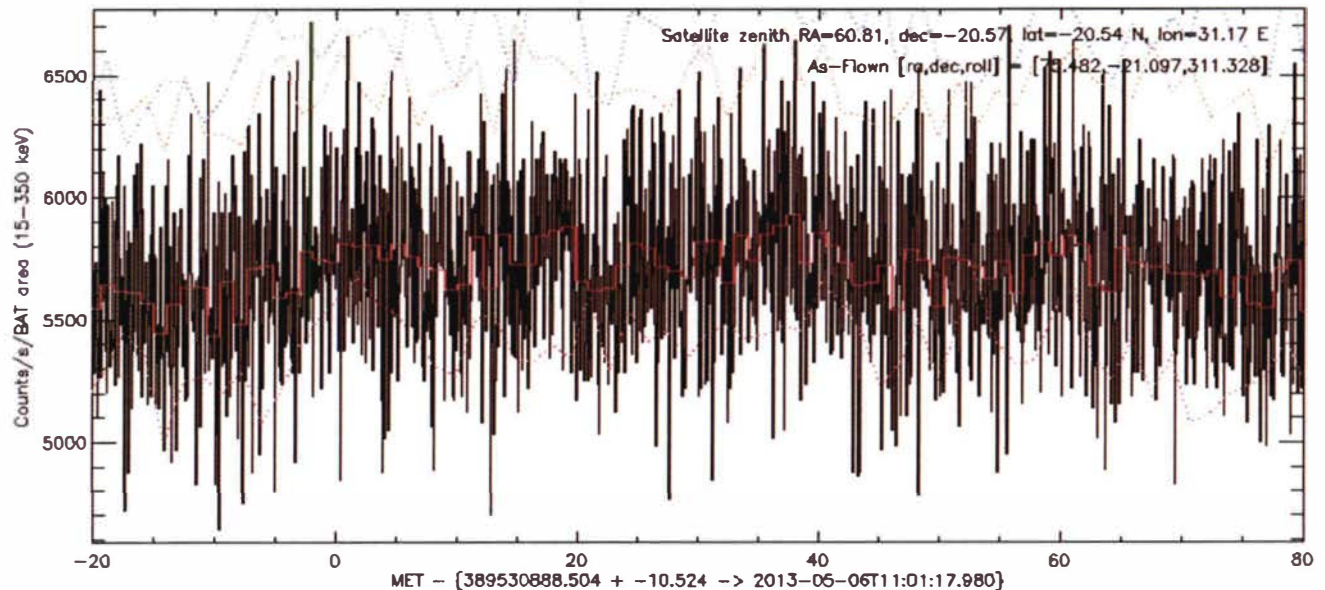
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/6/2013 3:06 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130506_1101.png



```
% /usr/local/bin/swinfo -o 389530888.504
Time(MET + UTCF -> UT): 389530888.504 + -10.524 -> 2013-05-06T11:01:17.980
YYMMDD_SOD: 130506_39677.980 DOY=126
Swift Zenith(RA,dec): 60.81, -20.57
Swift Location(lon,lat,alt): 31.17 E, -20.54 N, 587 km
Obs Sequence Number: 00049974004
Obs Target Name: SN2006HB-HOST
Obs Date and Times: 2013-05-06 10:59:51 - 11:12:47
Obs Pointing(ra,dec,roll): 75.482, -21.097, 311.33
```

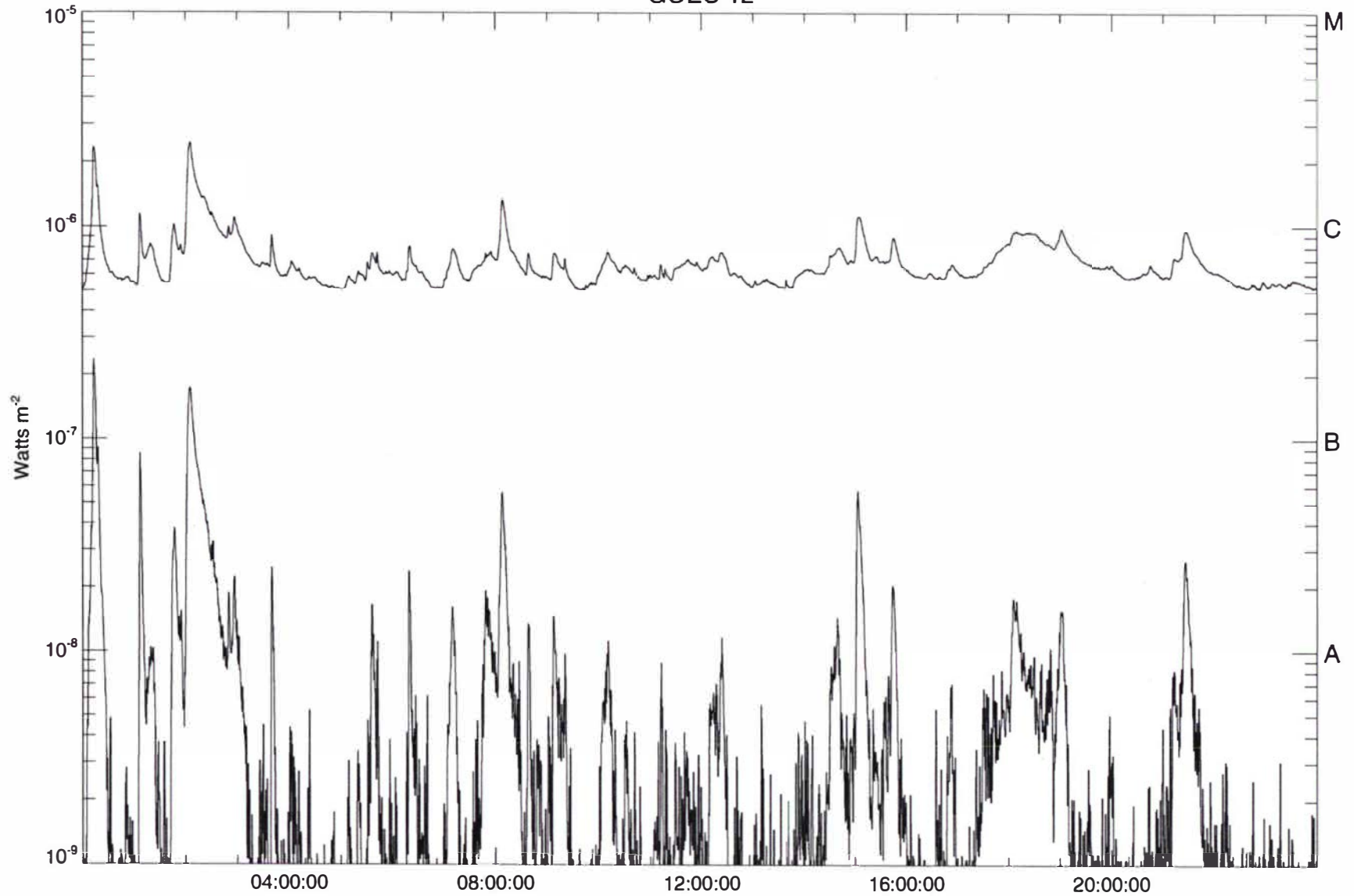
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130506_1101.png	20.3 KB
/tmp/130506_1101_bat64ms_ipn	87.0 KB

GOES 12



Data Start: 13/05/06, 0000:12

Plot created: 13/05/09, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

From gcncirc@capella2.gsfc.nasa.gov Wed May 8 13:30:04 2013
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: Fermi Trigger 130507.091 - Detection of a SGR-like Burst
To: khurley@ssl.berkeley.edu
Date: Wed, 8 May 2013 16:30:02 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

TITLE: GCN CIRCULAR
NUMBER: 14610
SUBJECT: Fermi Trigger 130507.091 - Detection of a SGR-like Burst
DATE: 13/05/08 20:29:58 GMT
FROM: Andrew Collazzi at NASA/MSFC/ORAU <andrew.collazzi@nasa.gov>

Andrew C Collazzi (NASA/ORAU), George Younes (NASA/USRA) and
Chryssa Kouveliotou (NASA/MSFC) report on behalf of the
Fermi GBM-Magnetar Team.

07869

"At 02:11:29.43 UT on 7 May, 2013, the Fermi Gamma-ray Burst Monitor (GBM) triggered and located an SGR-like burst (trigger 389585492 / 130507.091). The on-ground calculated location, using the Fermi GBM trigger data, is RA = 281.22, Dec = -2.12 (J2000 degrees, equivalent to J2000 18h 45m, -2d 7'), with a statistical uncertainty of 8.9 degrees (radius, 1-sigma containment, statistical only; there is additionally a systematic error which is currently estimated to be 2 to 3 degrees).

The 3-sigma error region for the burst contains several known magnetars, but does not include the recently discovered magnetar at the galactic center, SGR J1745-29 (Atel #5020).

The burst consists of a single pulse with a duration of $T_{90} = 20 \pm 9$ ms.

The burst spectrum is adequately fit by a single blackbody with a $kT = 9.8 \pm 0.7$ keV. The corresponding peak flux integrated over 4ms (8-200 keV) is $(2.2 \pm 0.4) \times 10^{-6}$ erg/s/cm². The fluence during $T_0 - 0.020$ s to $T_0 + 0.016$ s is $(3.8 \pm 0.4) \times 10^{-8}$ erg/cm².

The analysis results presented above are preliminary."

Subject: [lpn] BAT lightcurve for trigger at 130507_0211

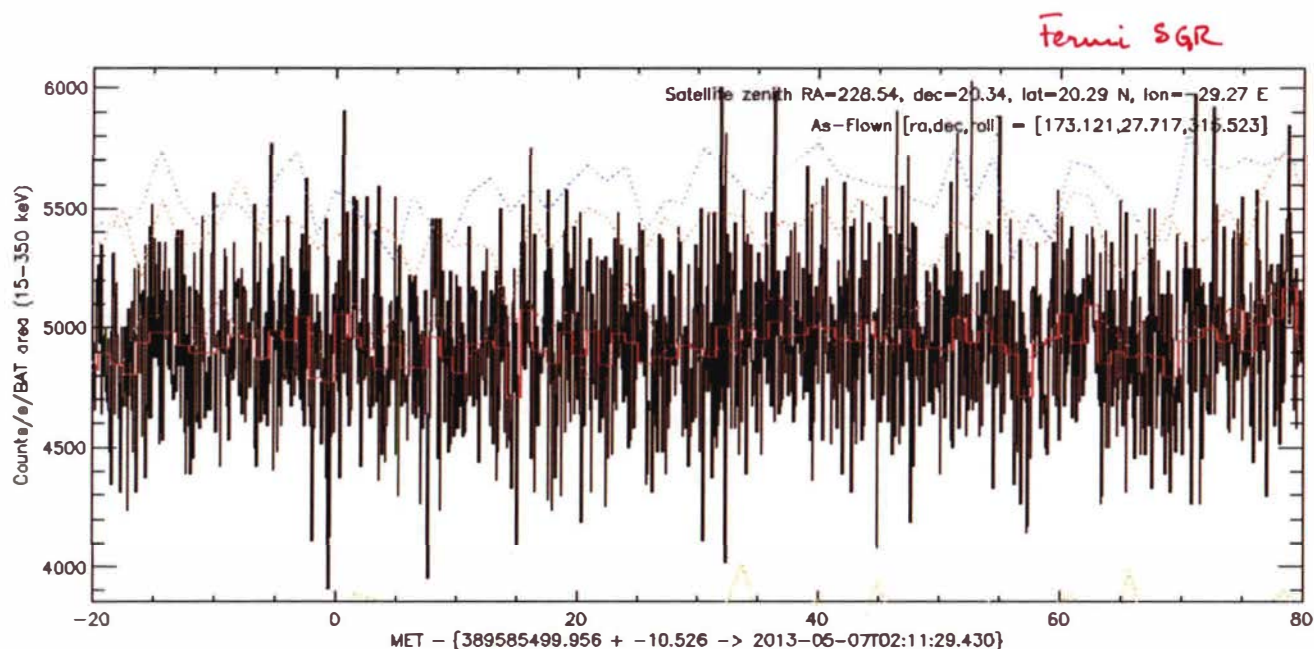
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/7/2013 1:46 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130507_0211.png



```
% /usr/local/bin/swinfo -o 389585499.956
Time(MET + UTCF -> UT): 389585499.956 + -10.526 -> 2013-05-07T02:11:29.430
YYMMDD_SOD: 130507_07889.430 DOY=127
Swift Zenith(RA,dec): 228.54, 20.34
Swift Location(lon,lat,alt): -29.27 E, 20.29 N, 564 km
Obs Sequence Number: 00554620038
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-07 01:54:51 - 02:19:47
Obs Pointing(ra,dec,roll): 173.121, 27.717, 315.52
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130507_0211.png

19.6 KB

/tmp/130507_0211_bat64ms_ipn

87.0 KB

GLAST

07/05/13

47077.981

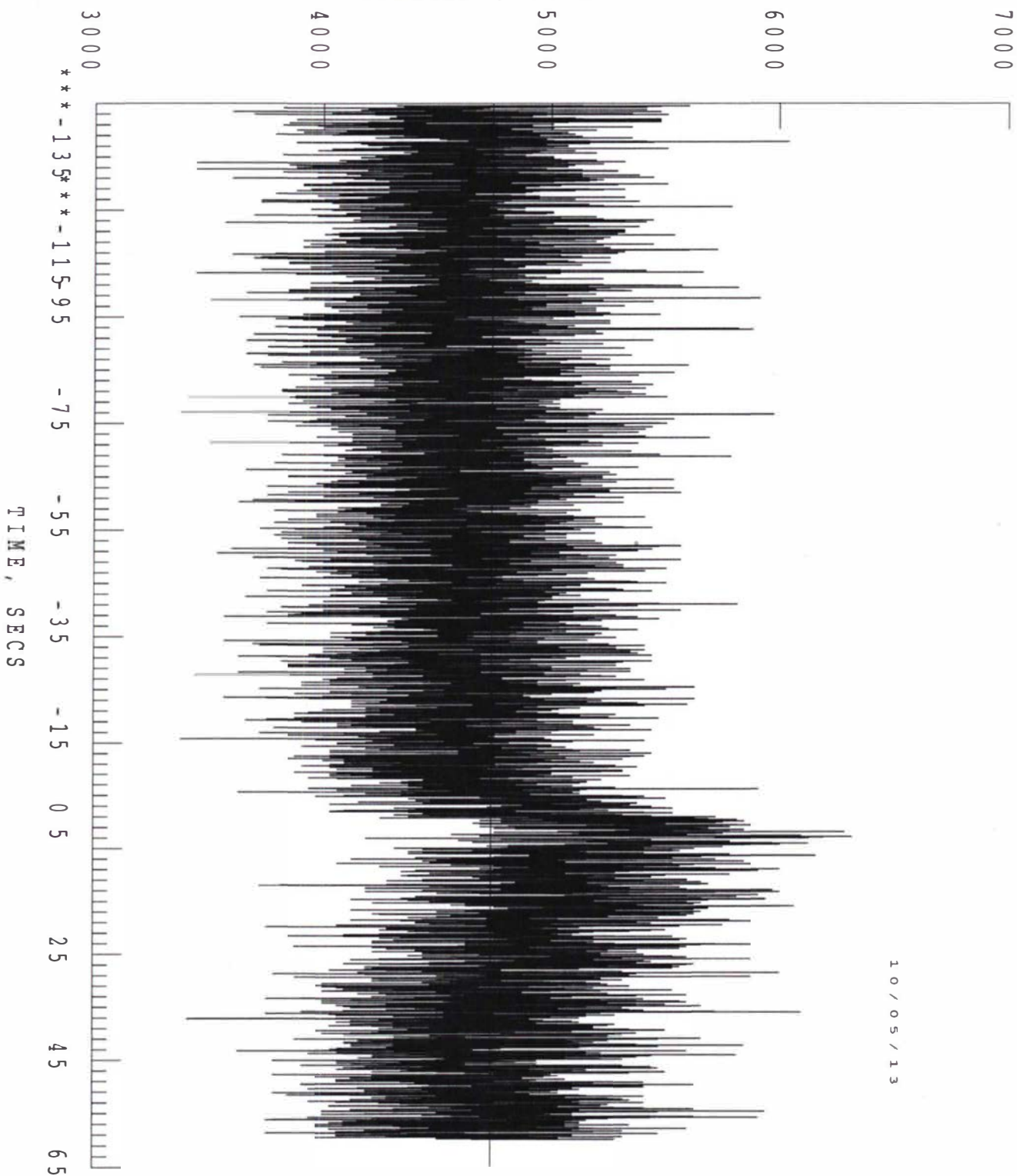
13:04:37

B

26 - 293 keV

319.74 -20.53 3.3

COUNTS/0.032 S



MS01

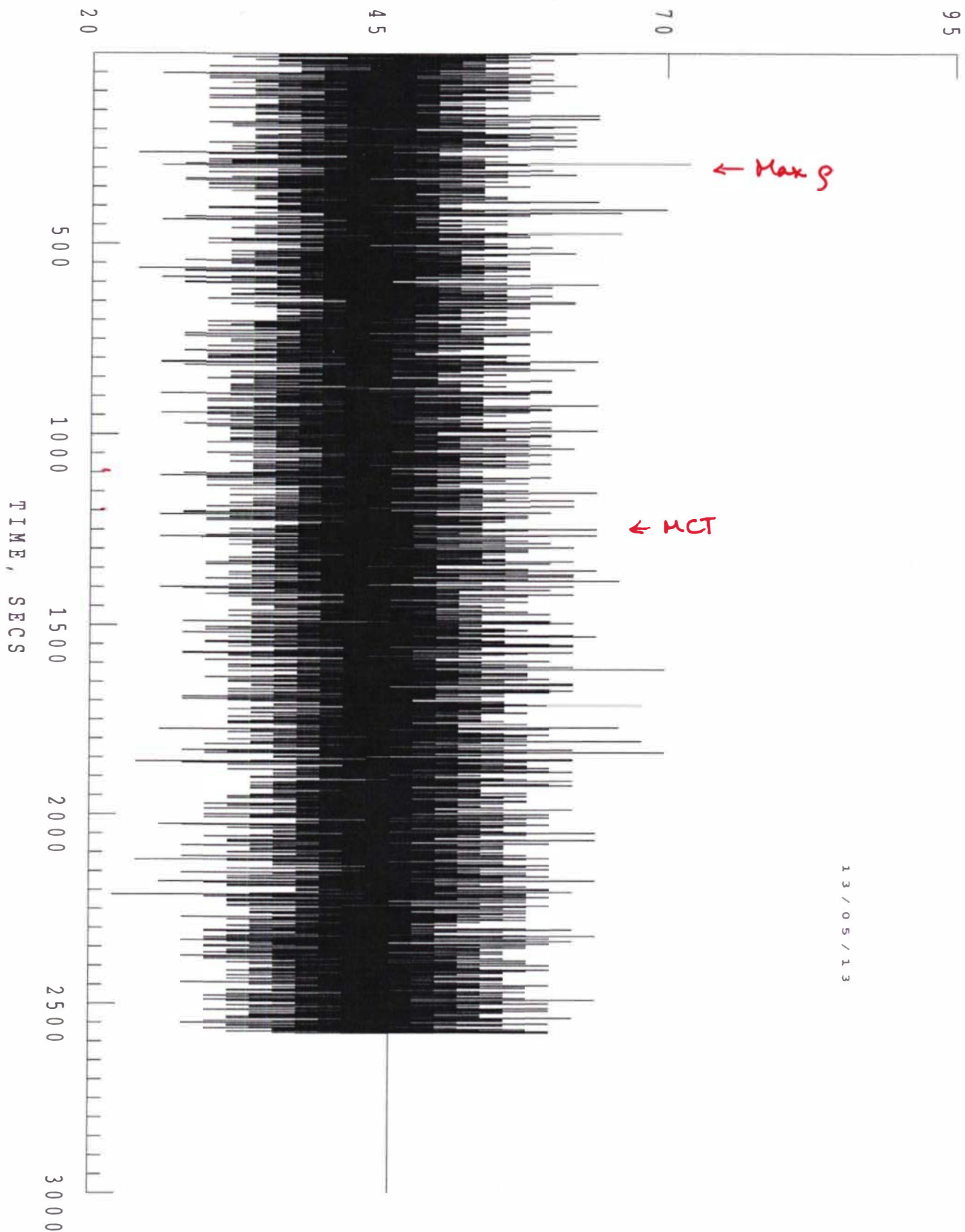
07/05/13

45760.550

B

50 - 3000 keV

COUNTS/0.250 S

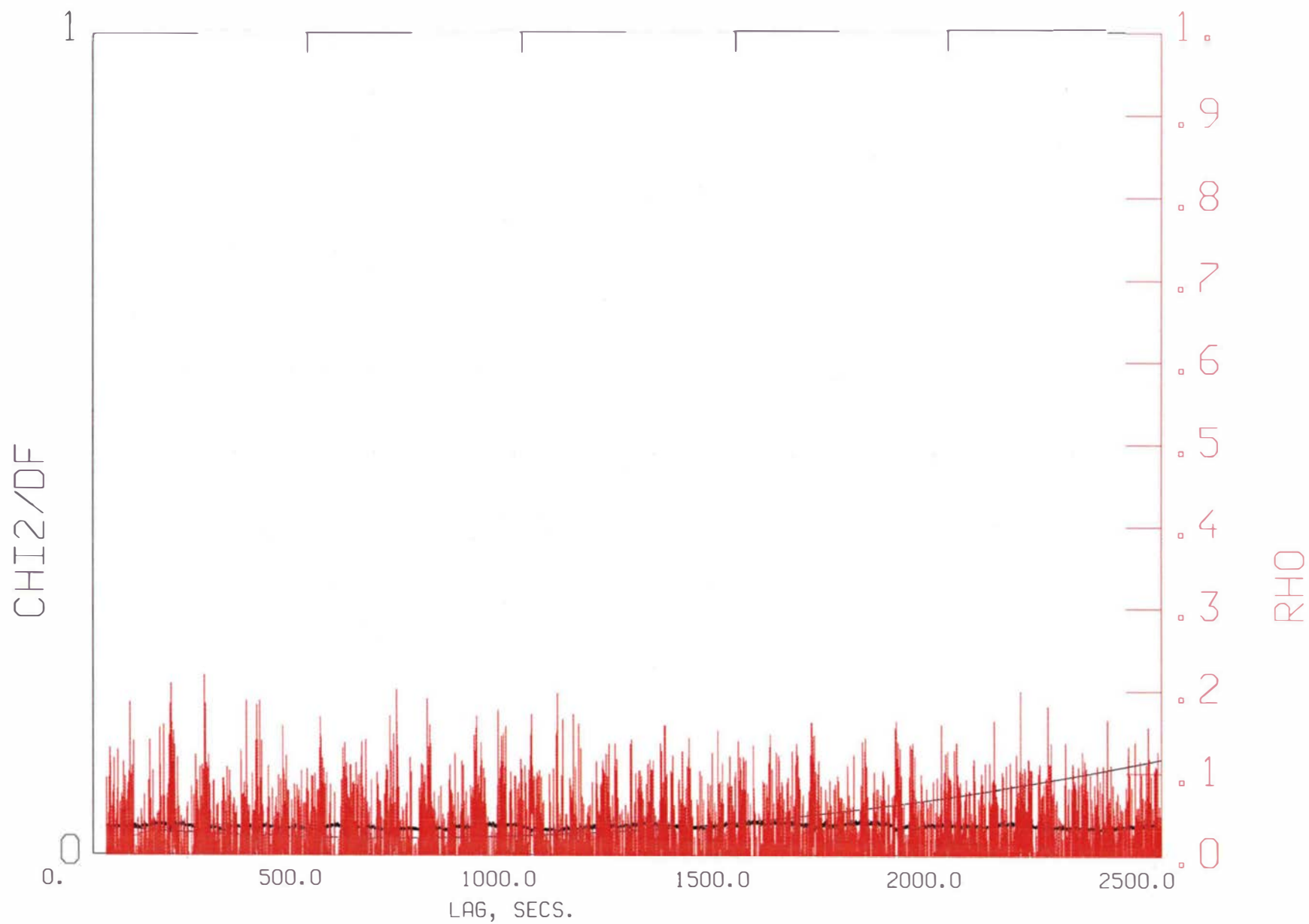


B

INTEGRAL -MS01_HEND CORRELATION

07/05/13 47077.988

23/10/13

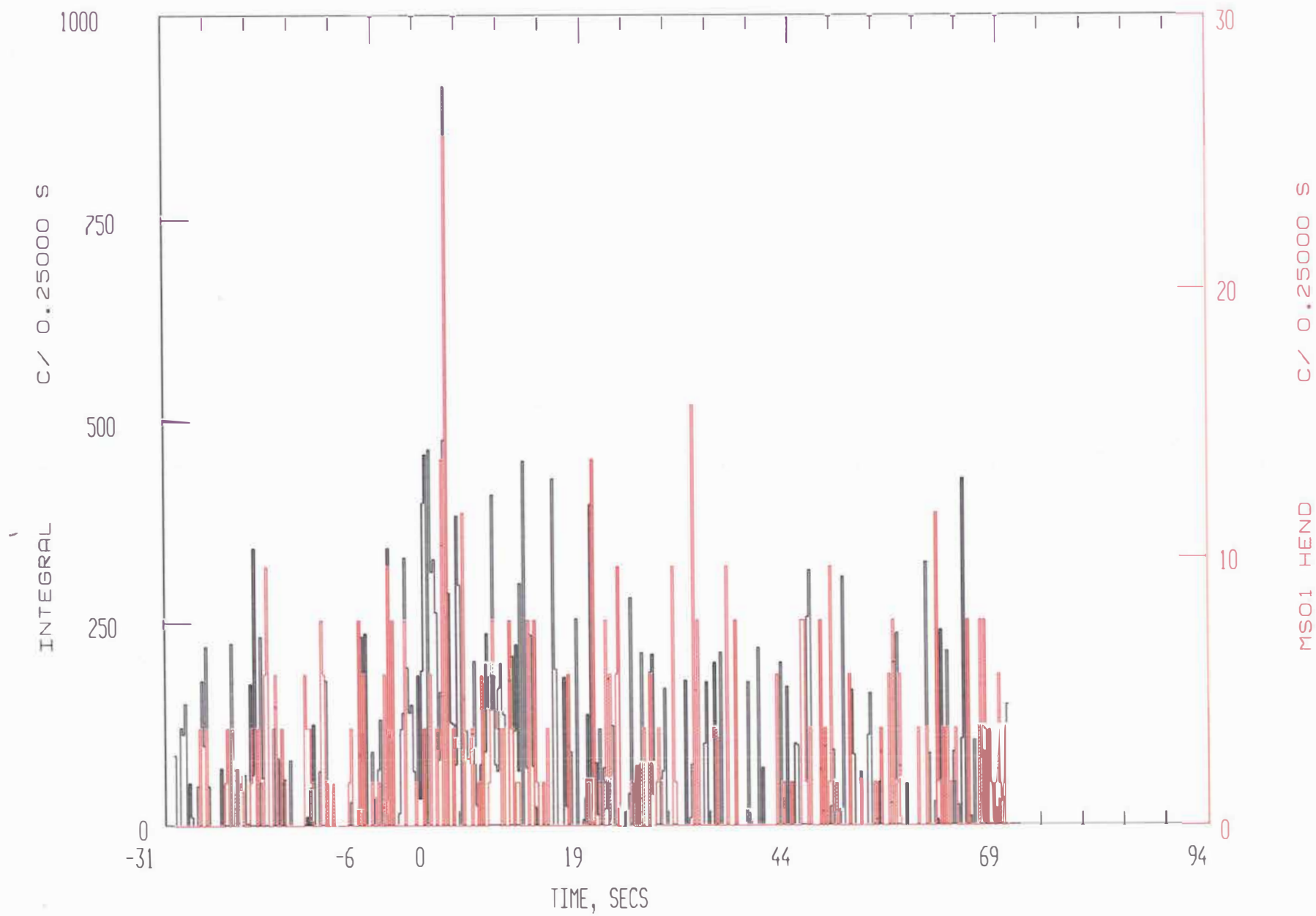


B

INTEGRAL -MSO1 HEND CORRELATION

07/05/13 47077.988

23/10/13

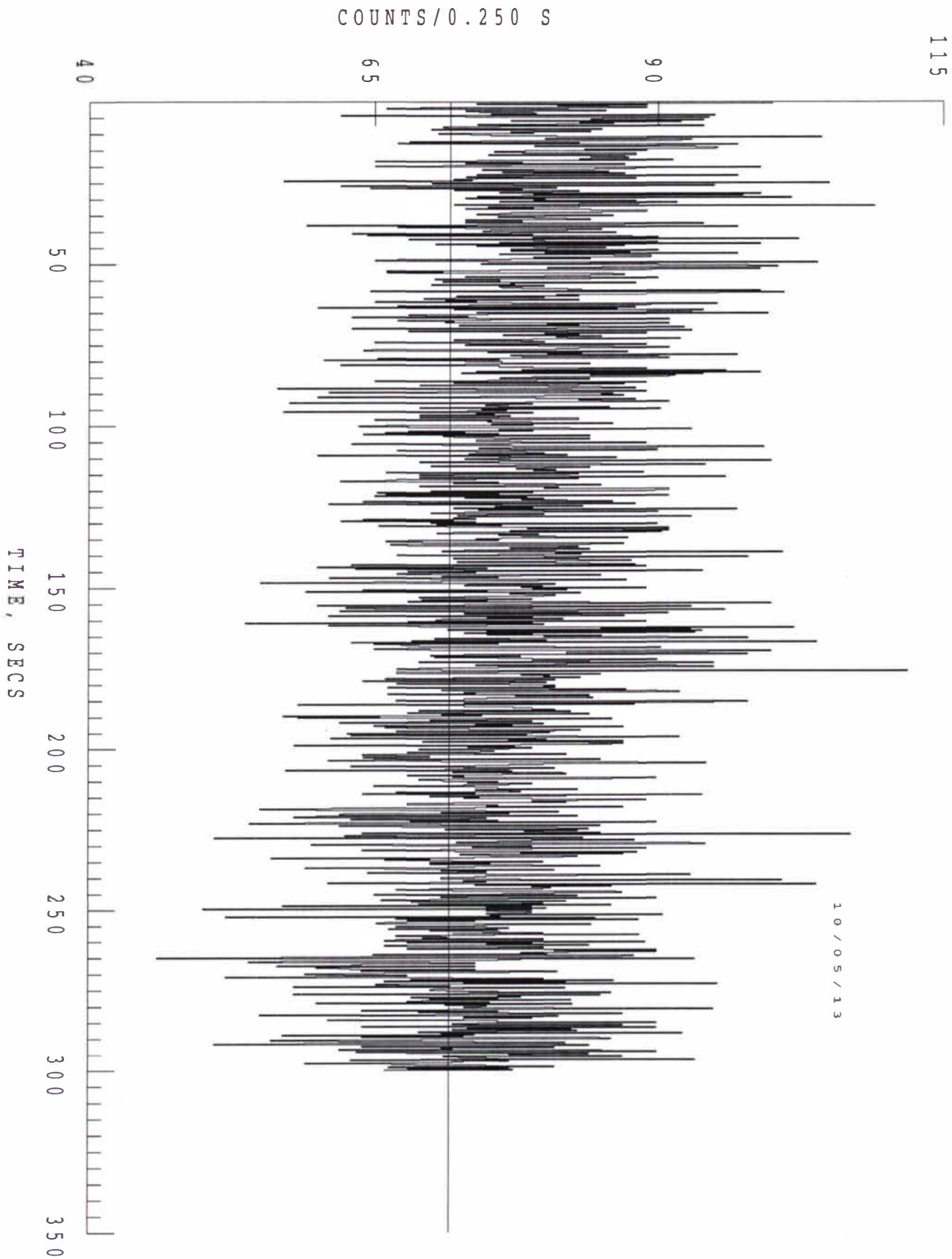


HESSI

07/05/13 46927.000 (GLAST_20130507_47077)

B

25- 150 keV



INTEGRAL

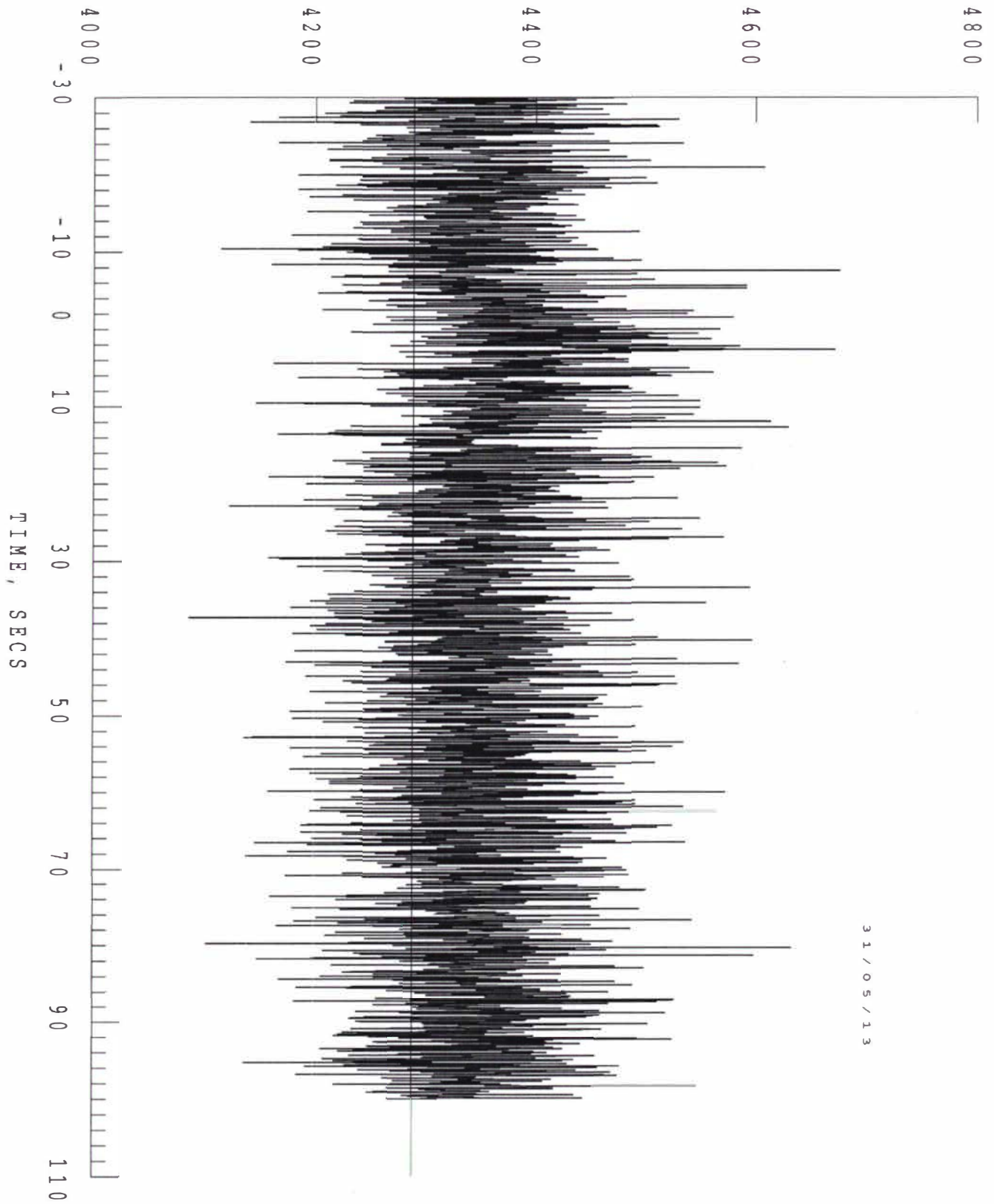
07/05/13

47077.988

B

100-10000 keV

COUNTS/0.050 S



Subject: [lpn] BAT lightcurve for trigger at 130507_1304

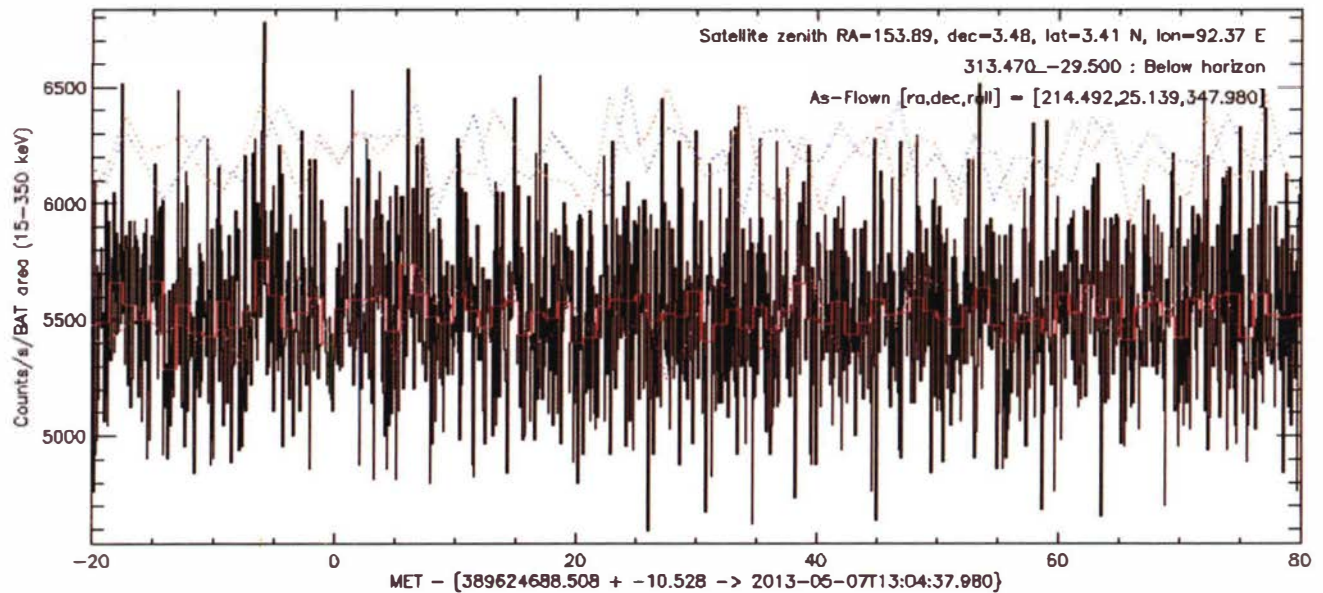
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/7/2013 9:41 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130507_1304.png



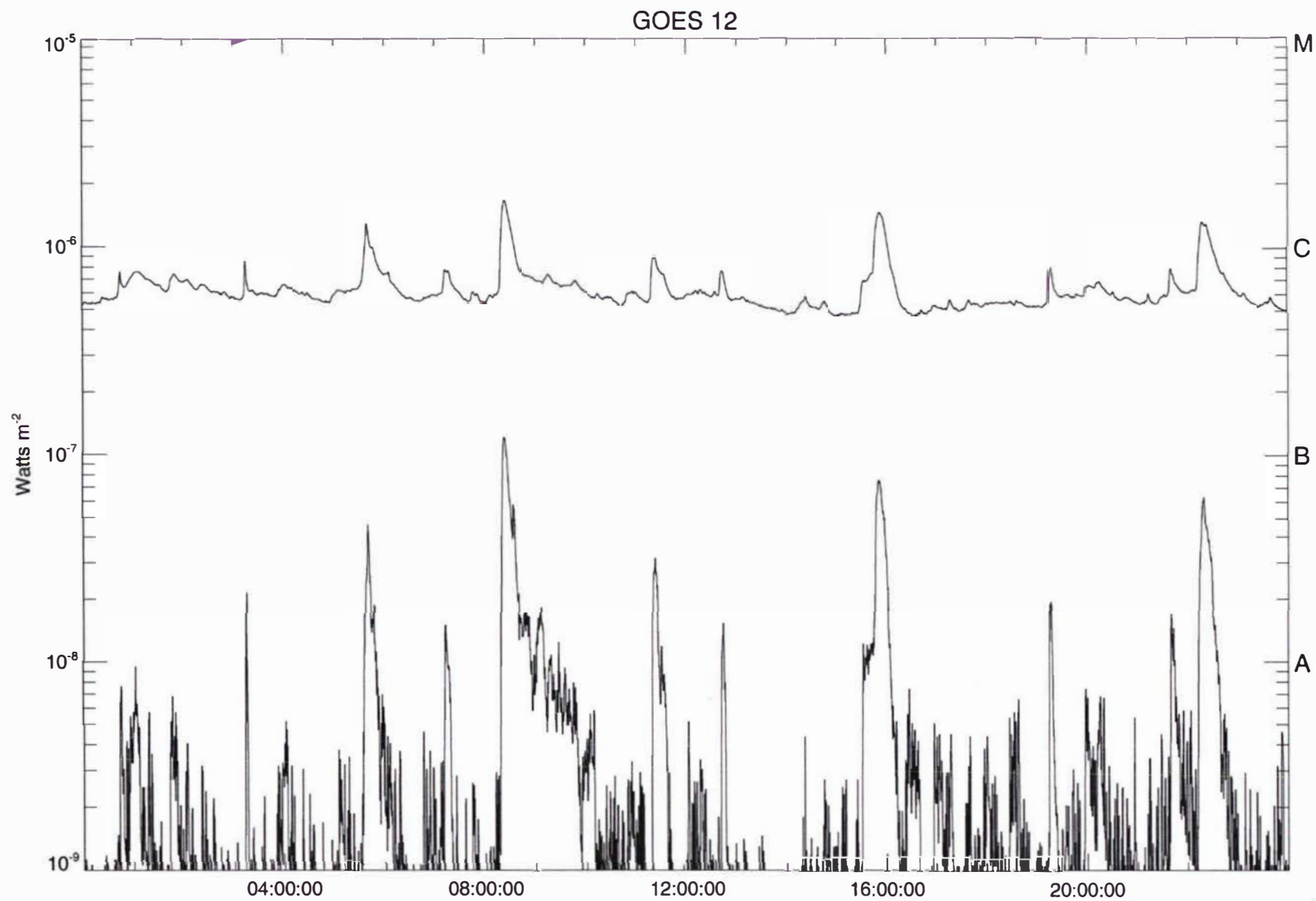
```
% /usr/local/bin/swinfo -o 389624688.508 -s 313.470_-29.500
Time(MET + UTCF -> UT): 389624688.508 + -10.528 -> 2013-05-07T13:04:37.980
YYMMDD_SOD: 130507_47077.980 DOY=127
Swift Zenith(RA,dec): 153.89, 3.48
Swift Location(lon,lat,alt): 92.37 E, 3.41 N, 572 km
Obs Sequence Number: 00091711010
Obs Target Name: NGC 5548
Obs Date and Times: 2013-05-07 13:03:51 - 13:19:47
Obs Pointing(ra,dec,roll): 214.492, 25.139, 347.98
313.470_-29.500_imageloc (boresight_dist, angle): (109, 36)
313.470_-29.500_exposure (cm^2 cos adjusted): 0
313.470_-29.500_altitude: -34 (down)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130507_1304.png	20.4 KB
/tmp/130507_1304_bat64ms_ipn	87.0 KB



Data Start: 13/05/07, 0000:12

Plot created: 13/05/10, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

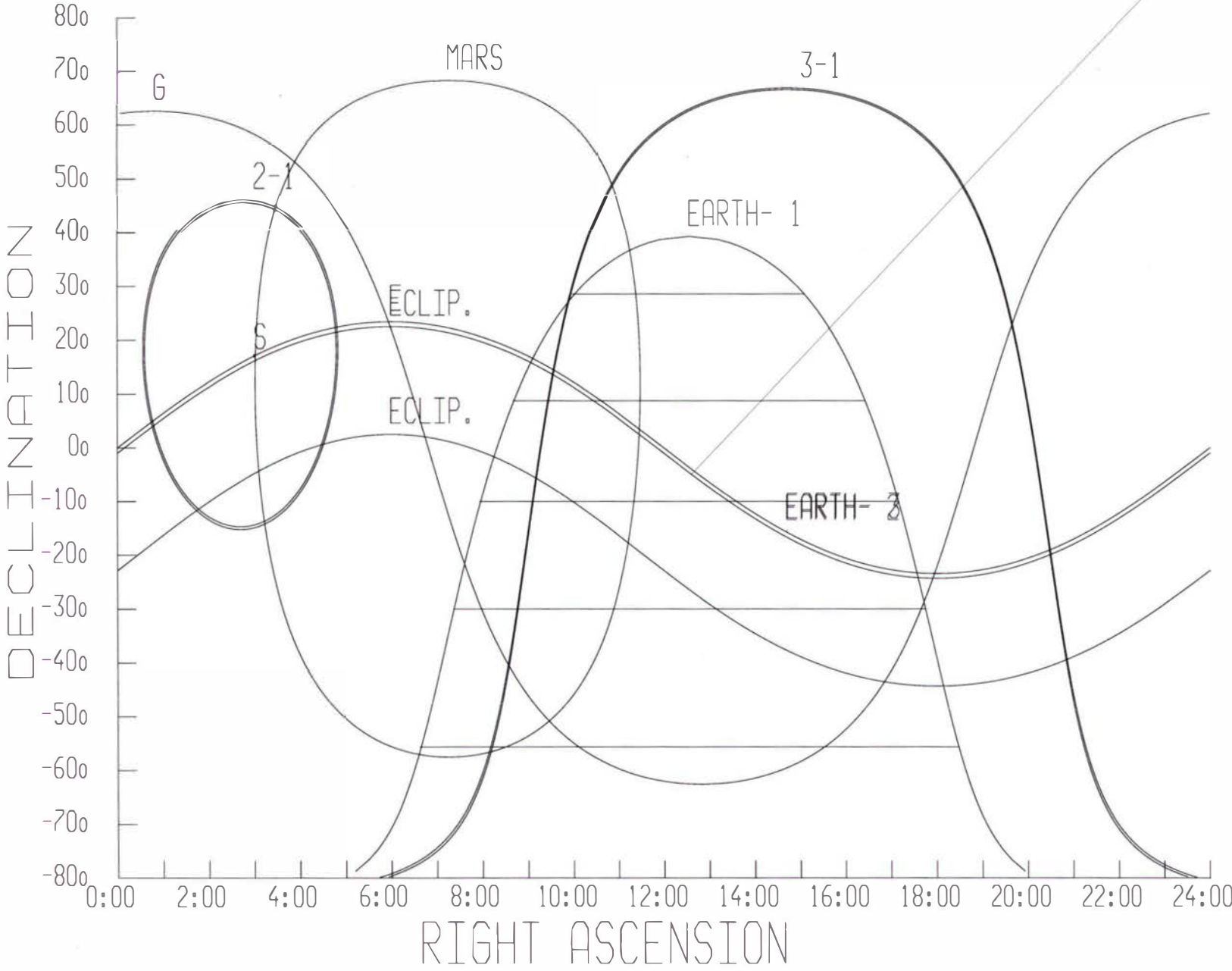
Sample average = 10

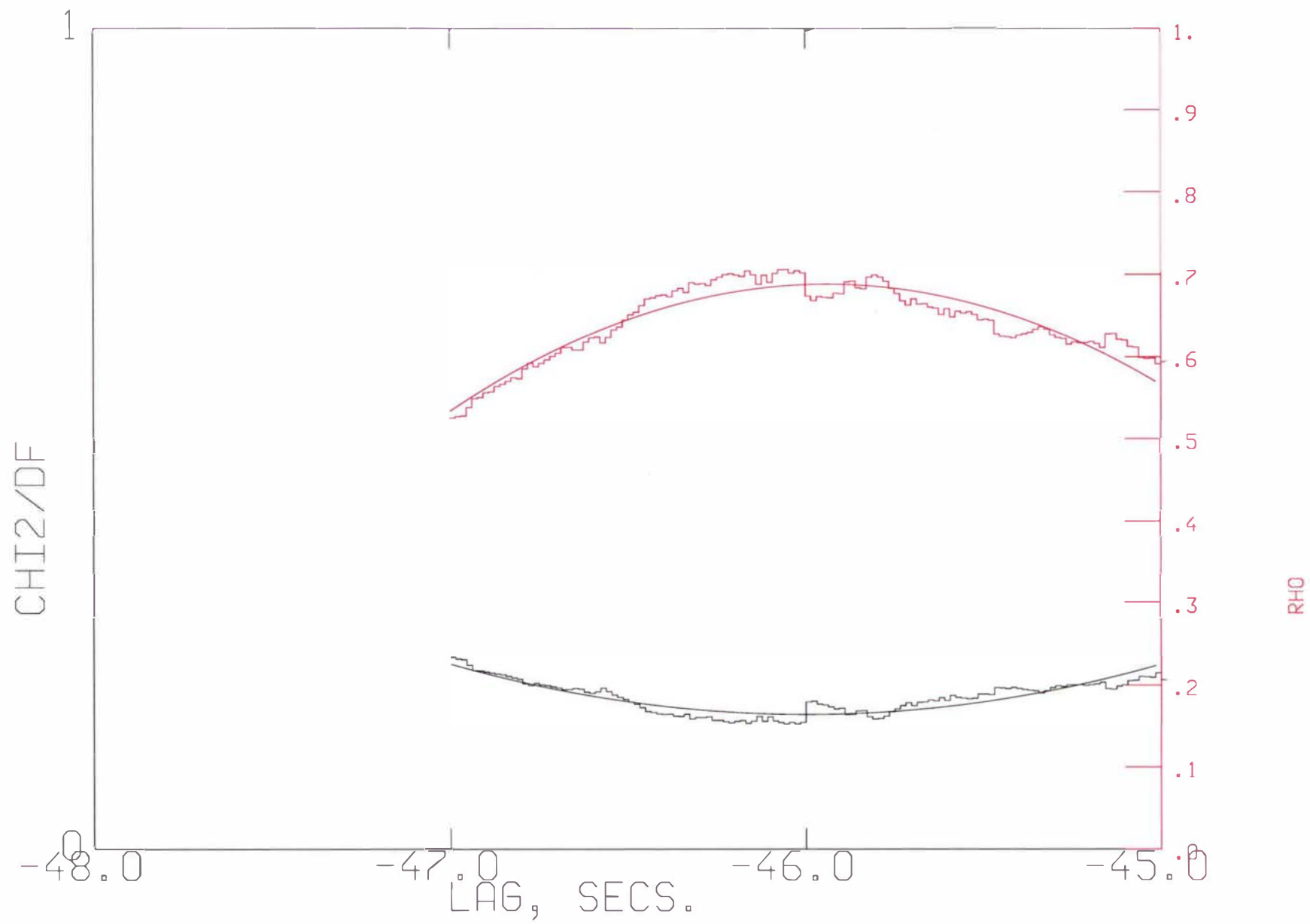
A

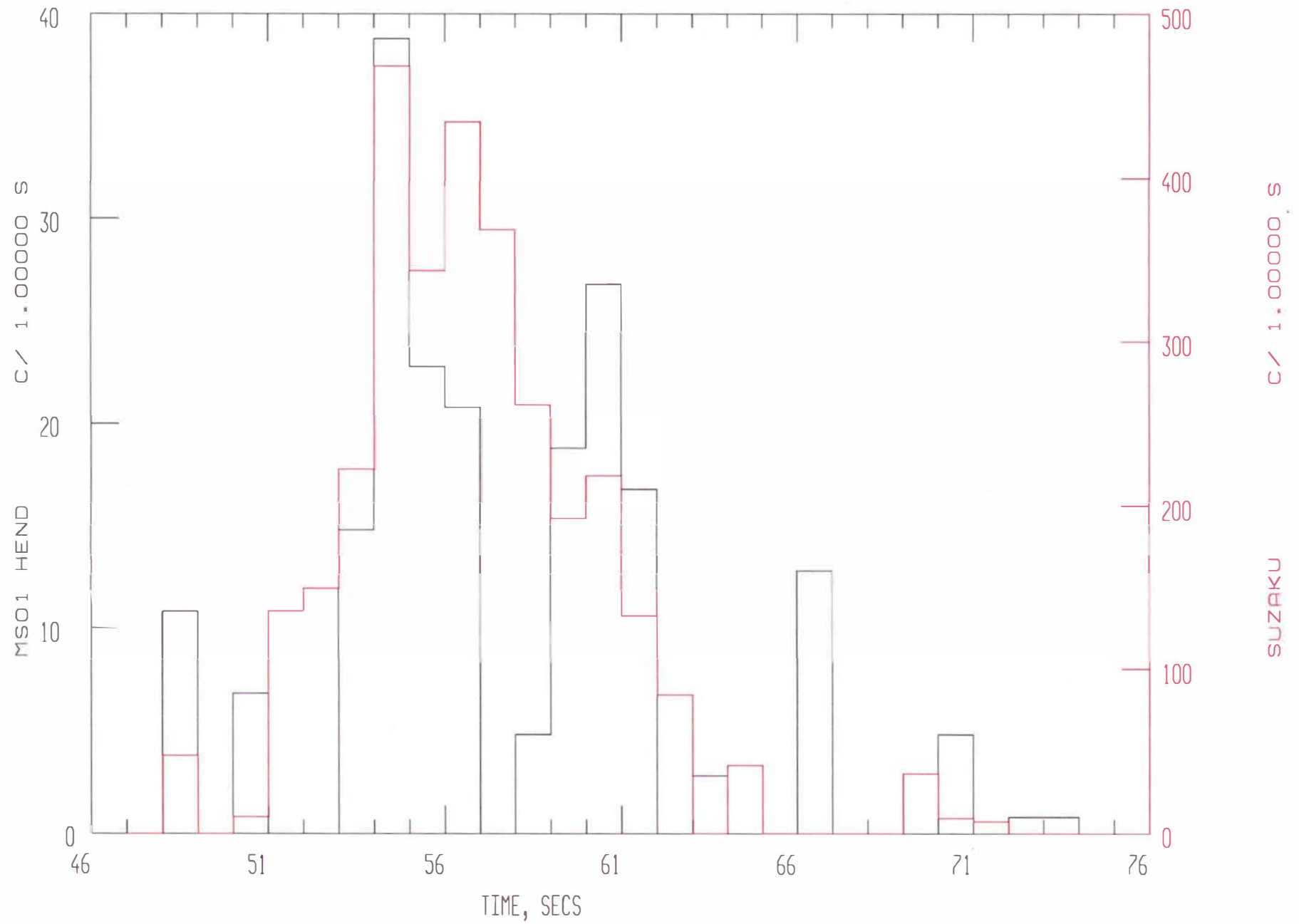
EVENT OF MAY 8, 2013 2:27

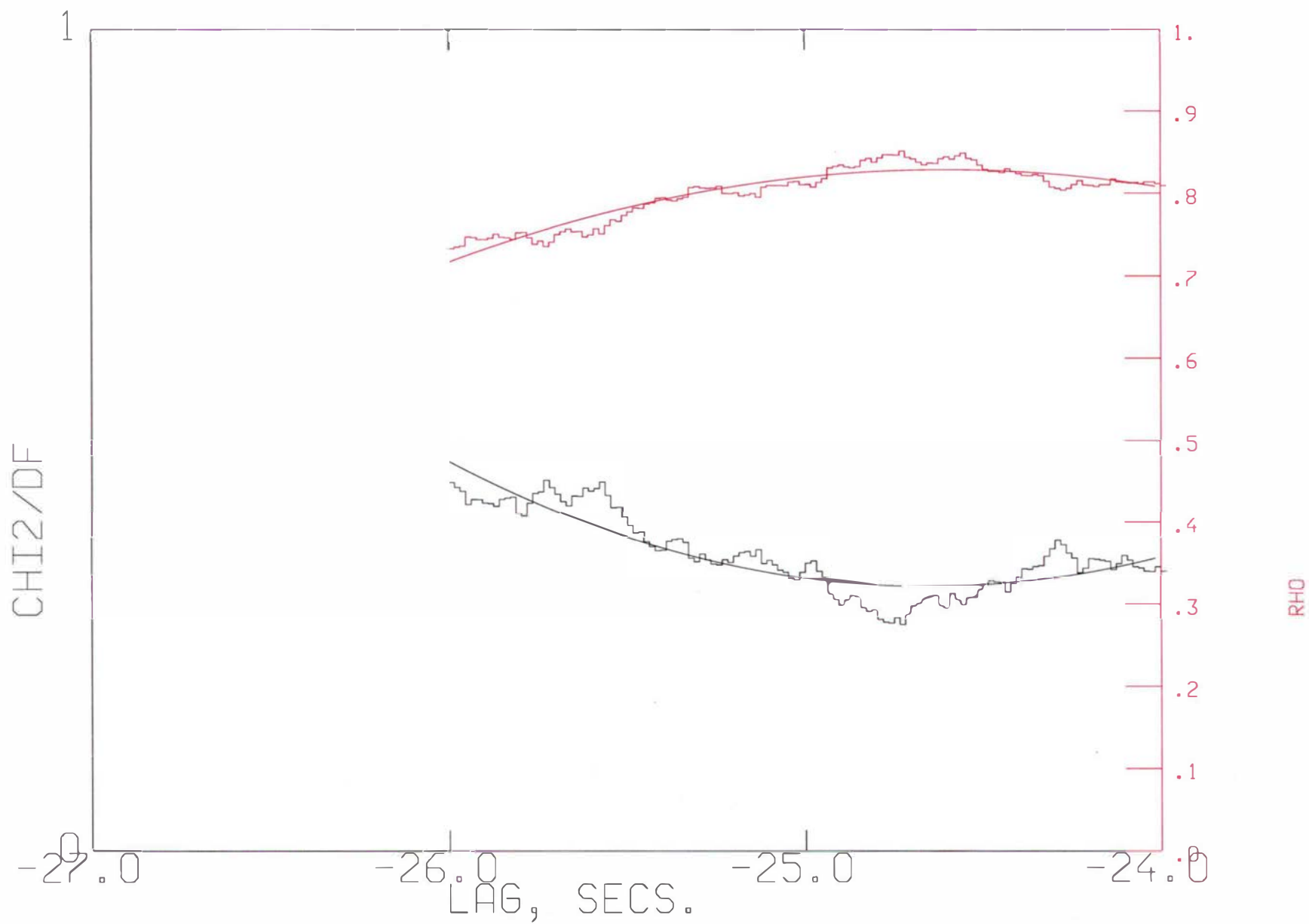
23/09/2016

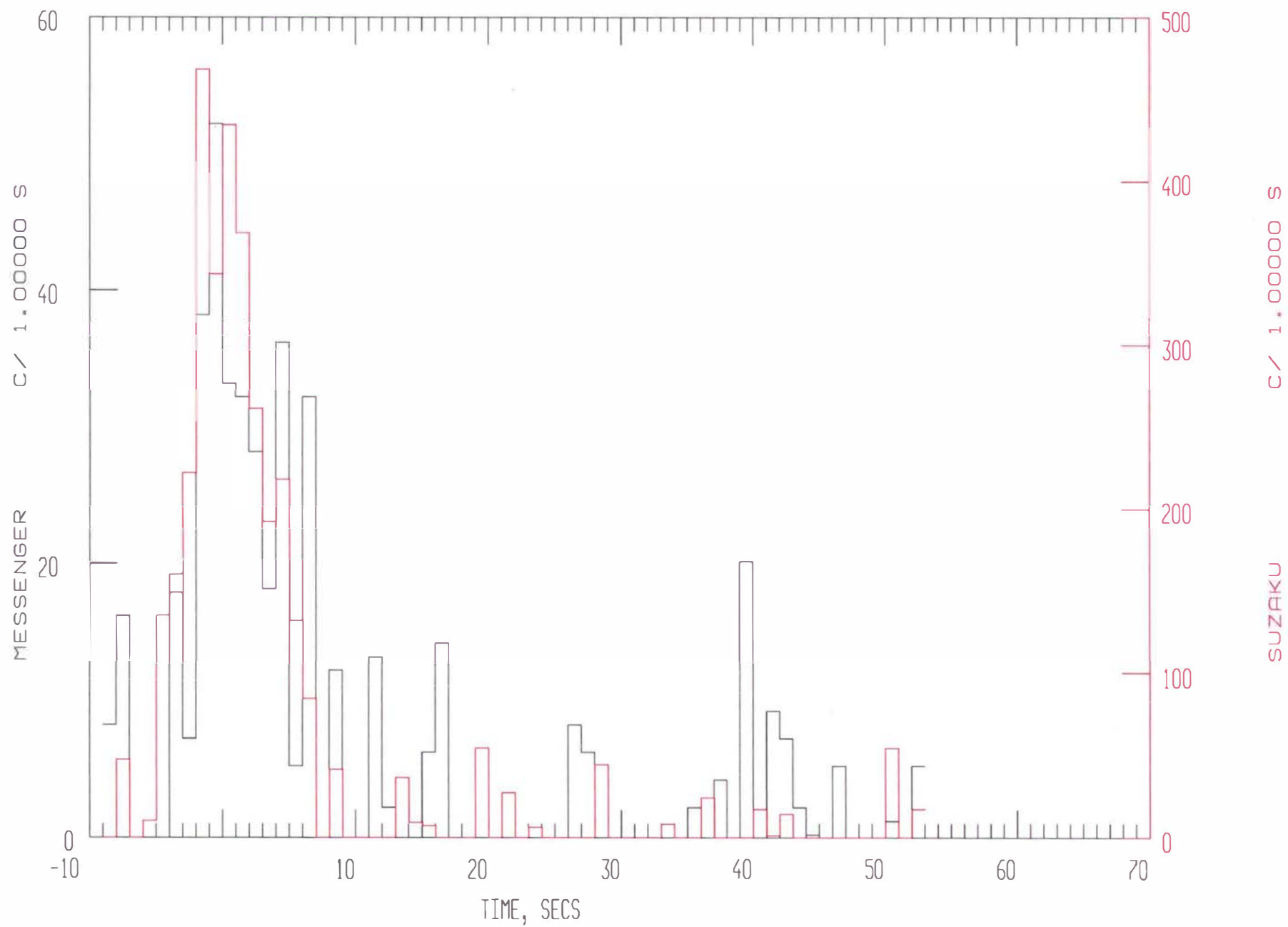
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 SUZAKU 2 MO 3 MESSENGER











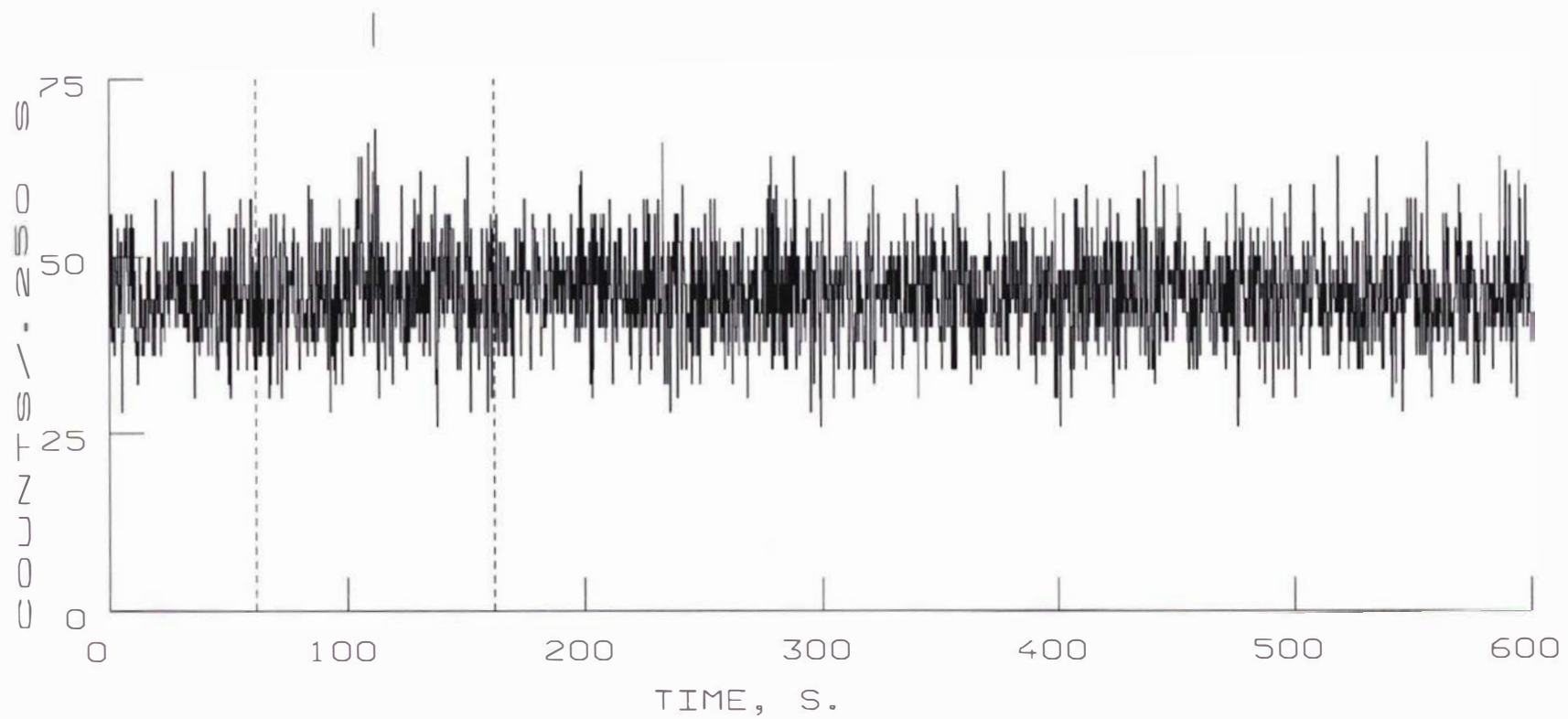
MSO1 HEND

23/09/2016

08/05/2013 7719.752 s

50-3000 keV

MAXIMUM



SUZAKU

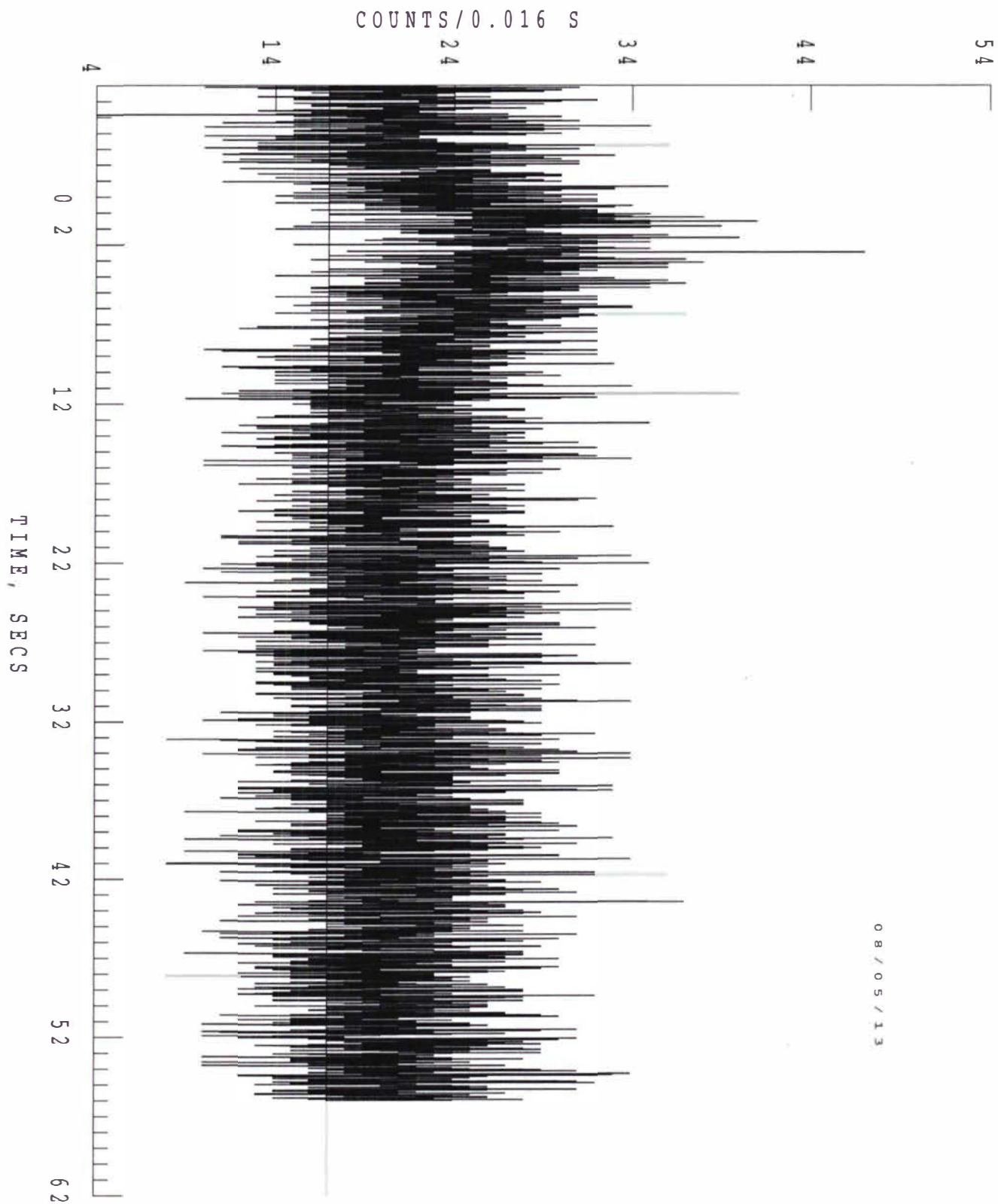
08/05/13

8878.924

A

50 - 240 keV

02:27:58



MS01

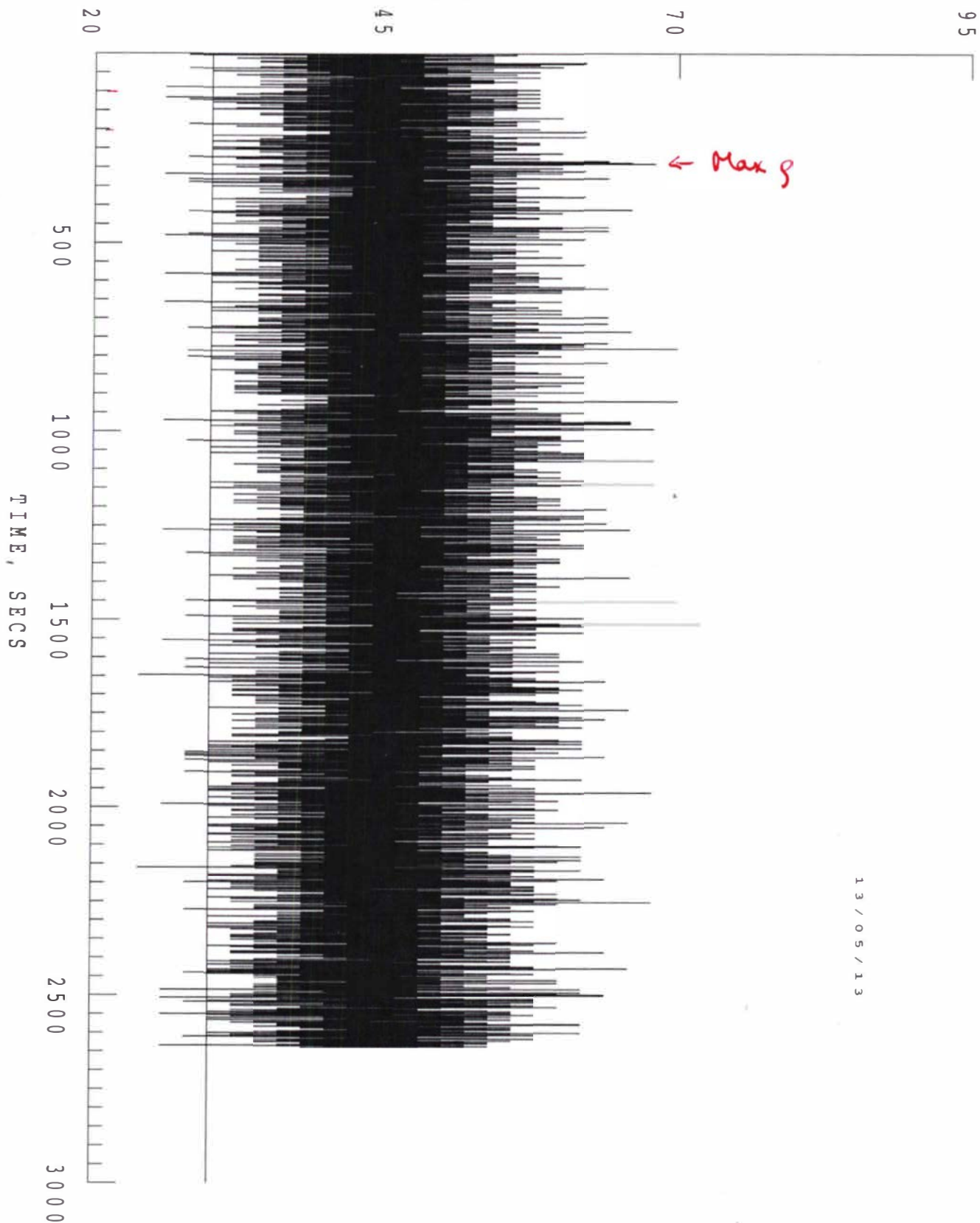
08/05/13

7539.753

A

50 - 3000 keV

COUNTS/0.250 S



A

SUZAKU

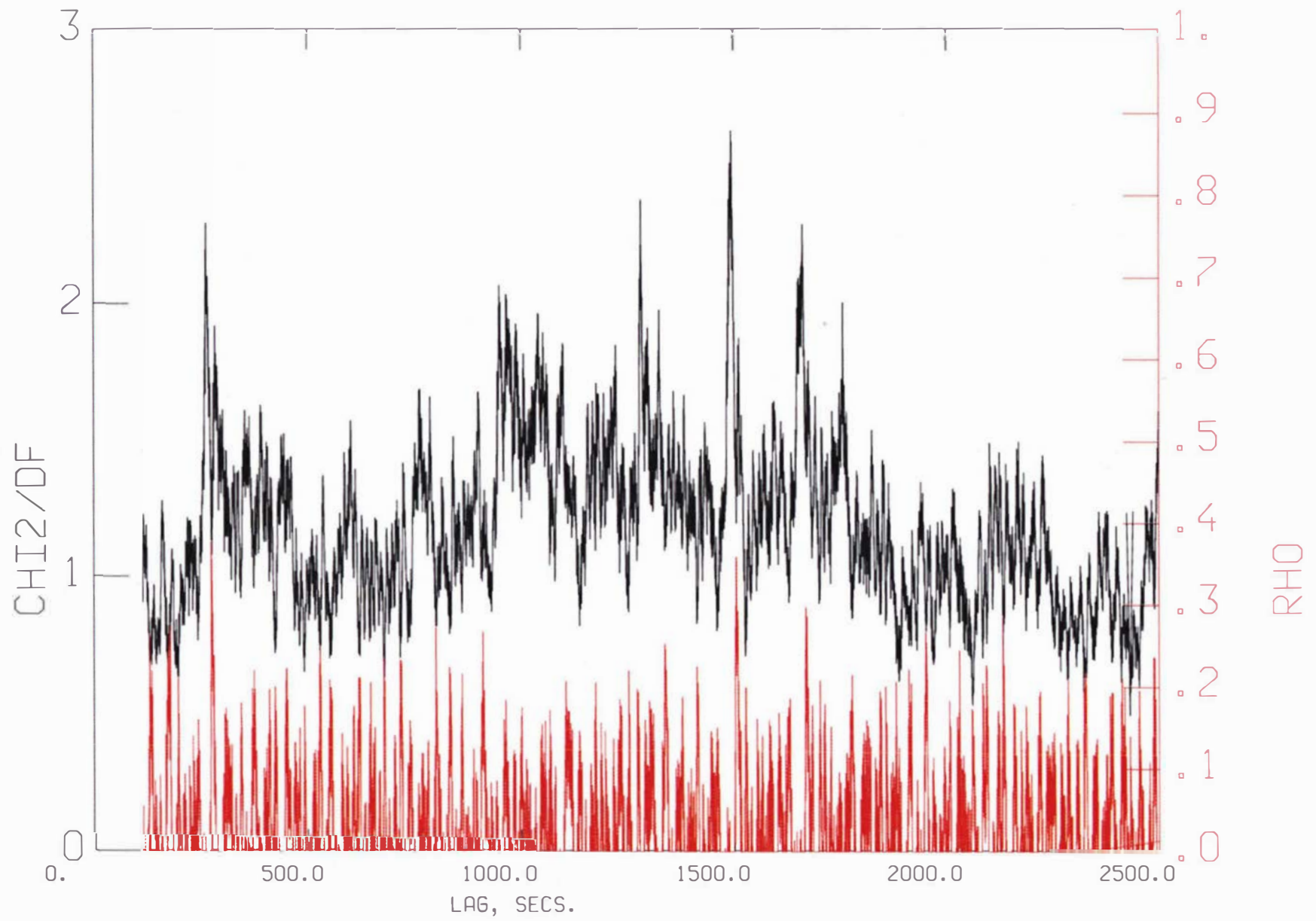
-MS01 HEND

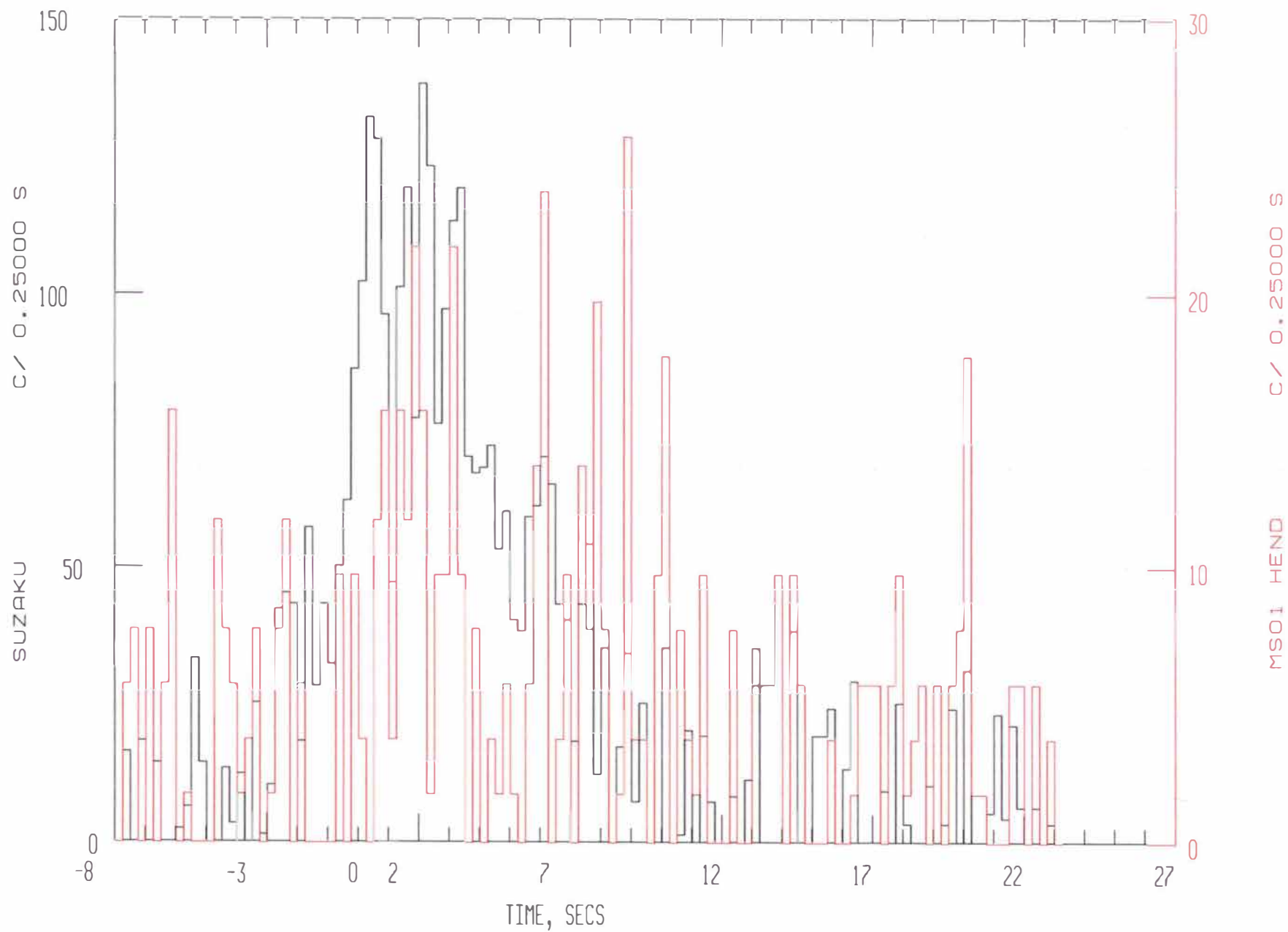
CORRELATION

08/05/13

8878.924

24/10/13



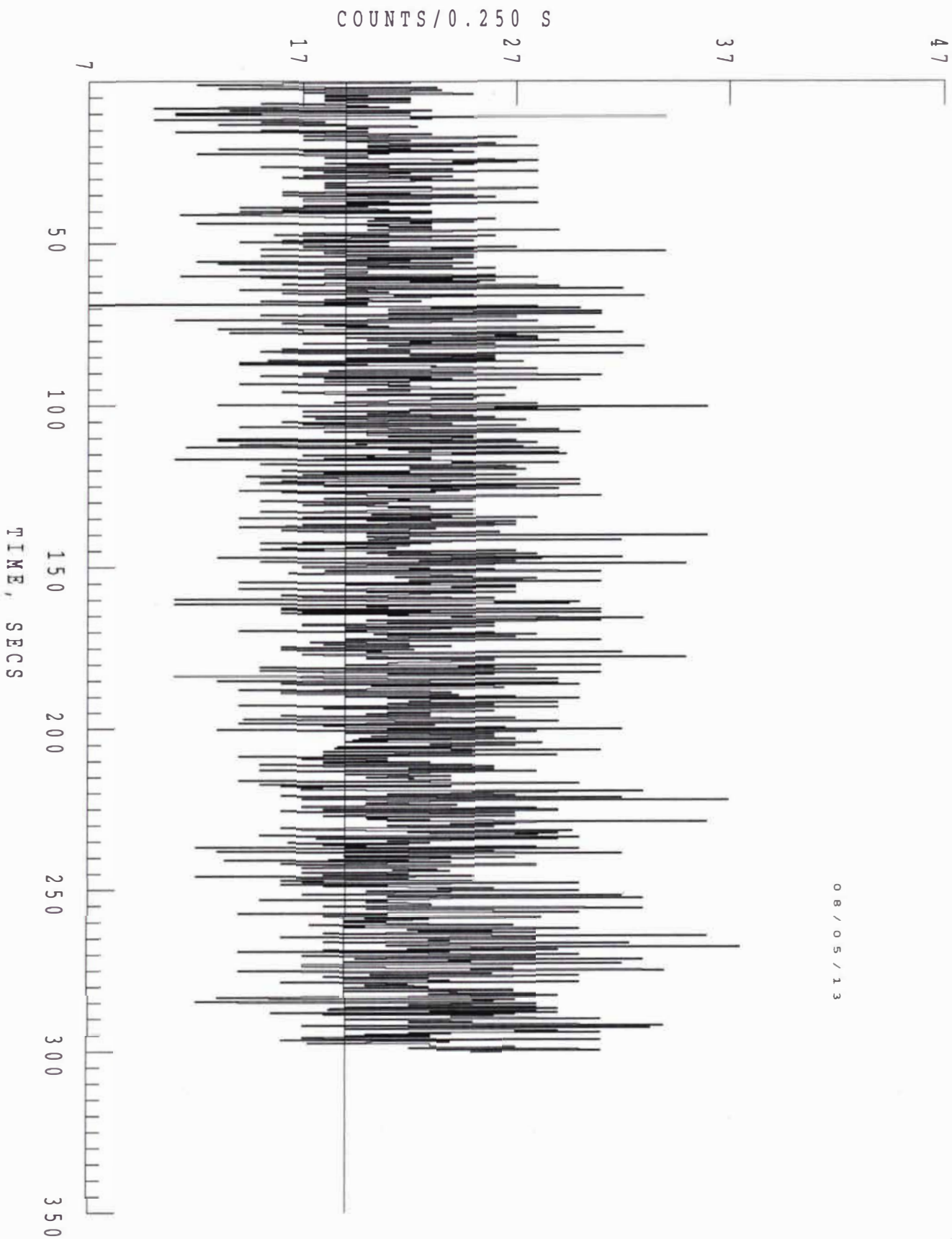


HESSI

08/05/13 8728.000 (SUZAKU_20130508_08878)

A

25- 150 keV



08/05/13

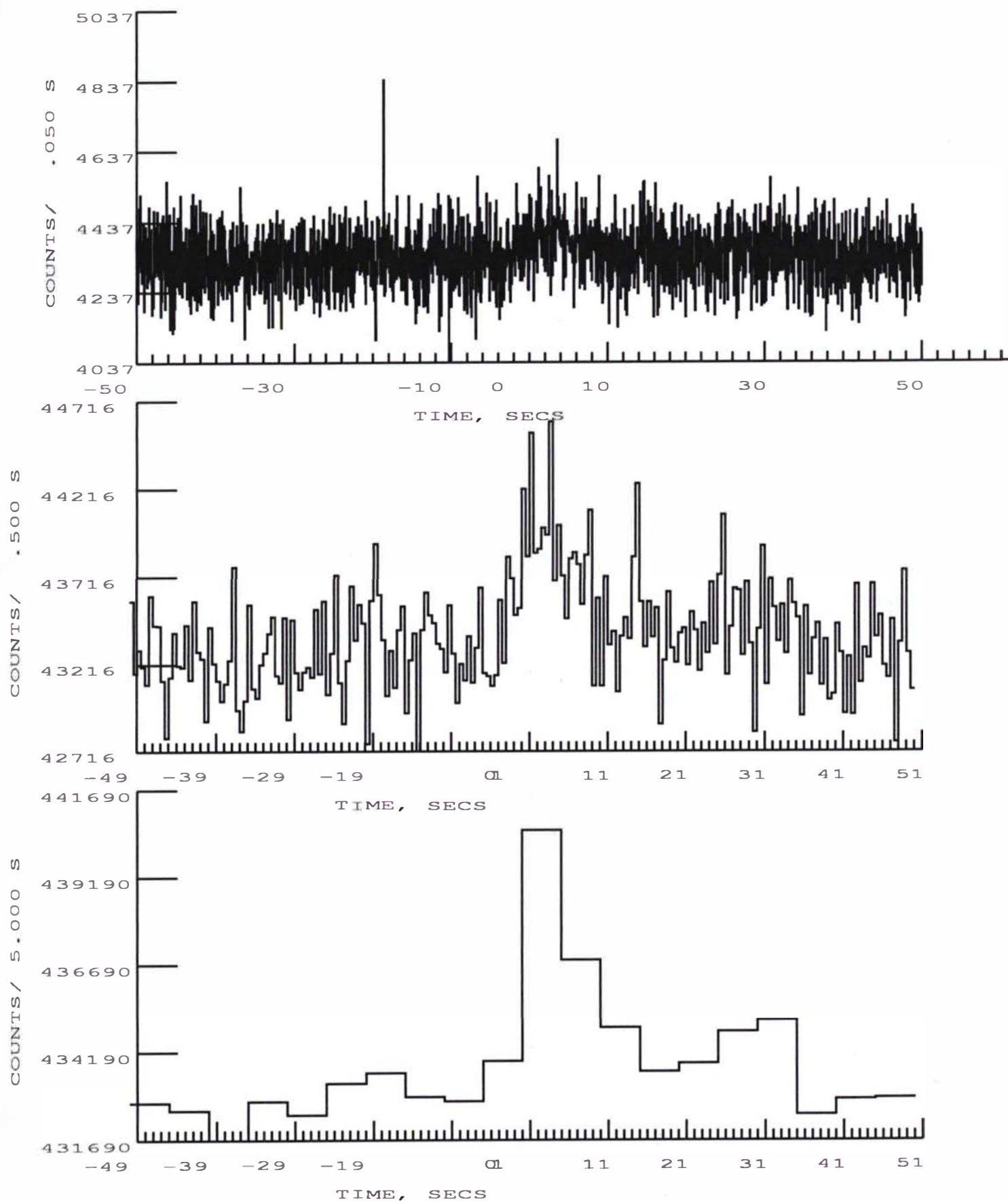
INTEGRAL

08/05/13

8878.000

02:27:58.0

24/10/13



Subject: [Ipn] BAT lightcurve for trigger at 130508_0227

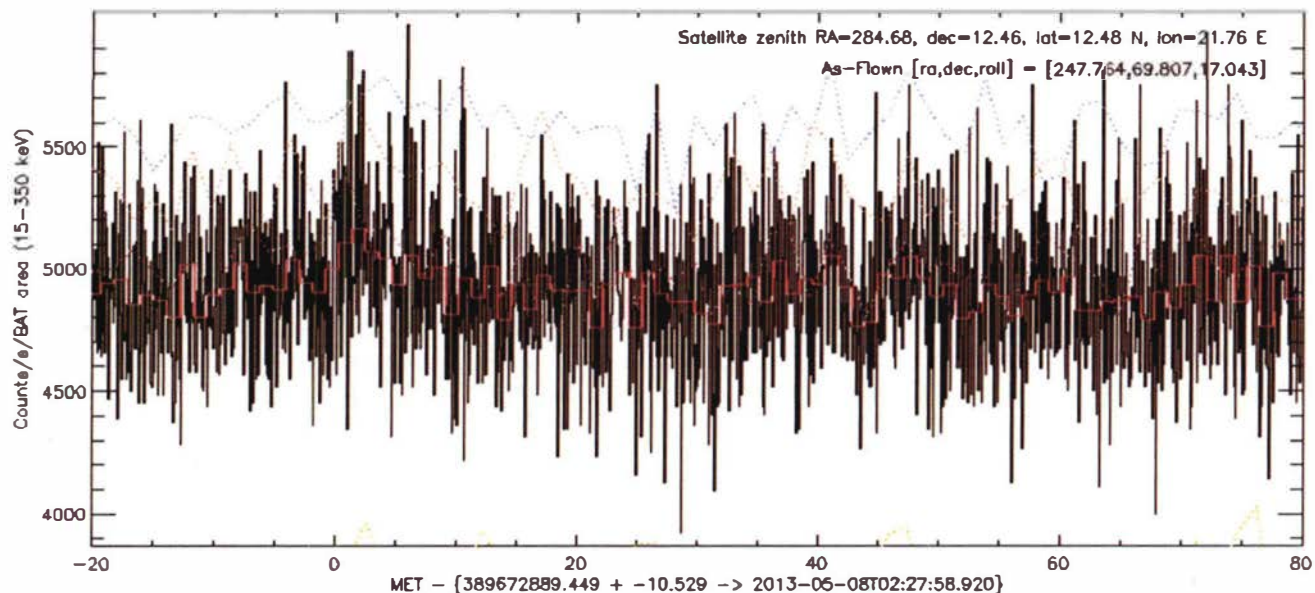
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/8/2013 1:11 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130508_0227.png



```
% /usr/local/bin/swinfo -o 389672889.449
Time(MET + UTC -> UT): 389672889.449 + -10.529 -> 2013-05-08T02:27:58.920
YYMMDD_SOD: 130508_08878.920 DOY=128
Swift Zenith(RA,dec): 284.68, 12.46
Swift Location(lon,lat,alt): 21.76 E, 12.48 N, 570 km
Obs Sequence Number: 00032817001
Obs Target Name: RX J1630.9+6950
Obs Date and Times: 2013-05-08 02:22:51 - 02:36:49
Obs Pointing(ra,dec,roll): 247.764, 69.807, 17.04
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130508_0227.png

20.4 KB

/tmp/130508_0227_bat64ms_ipn

87.0 KB

A

24/10/13

MESSENGER

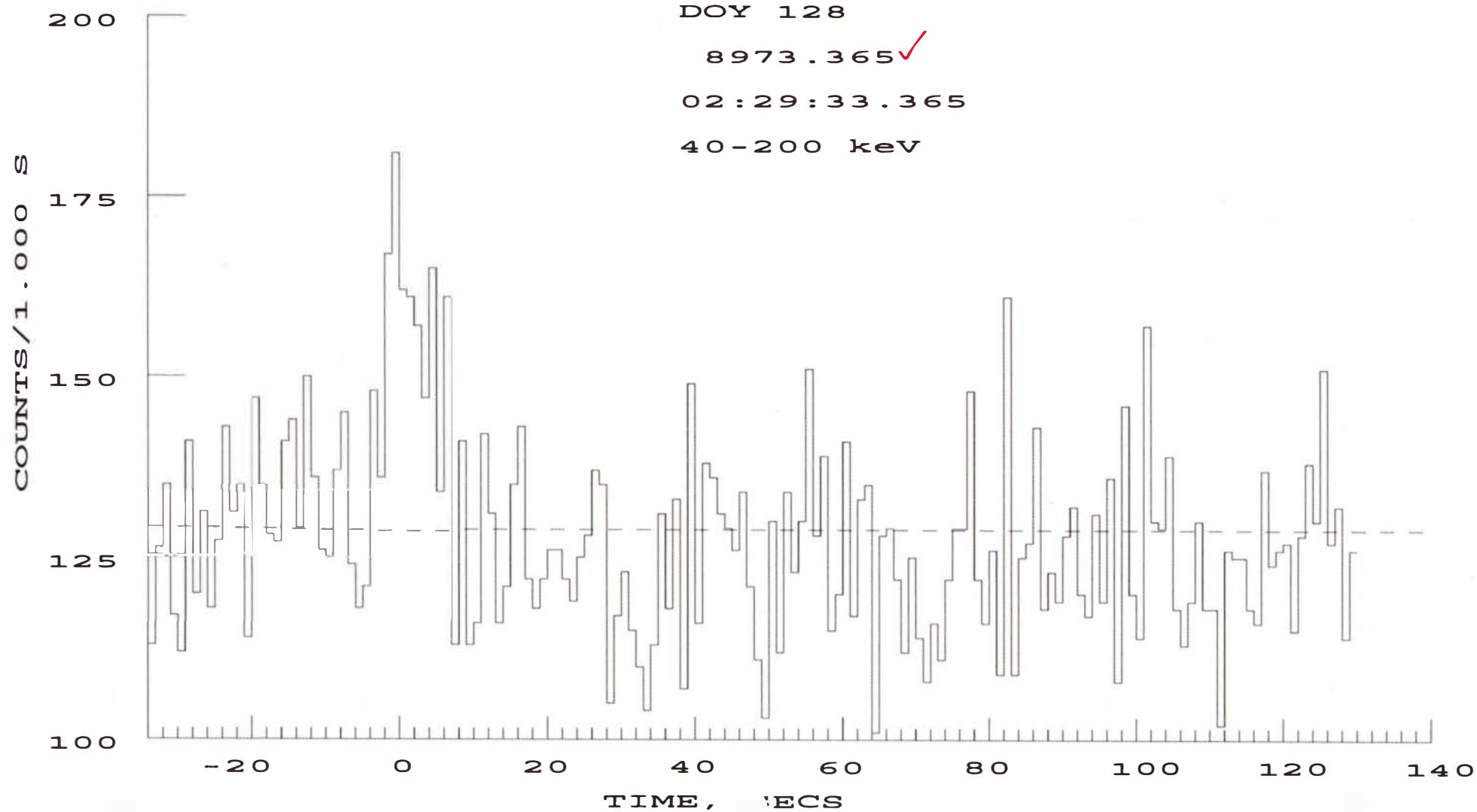
08/05/13

DOY 128

8973.365 ✓

02:29:33.365

40-200 keV



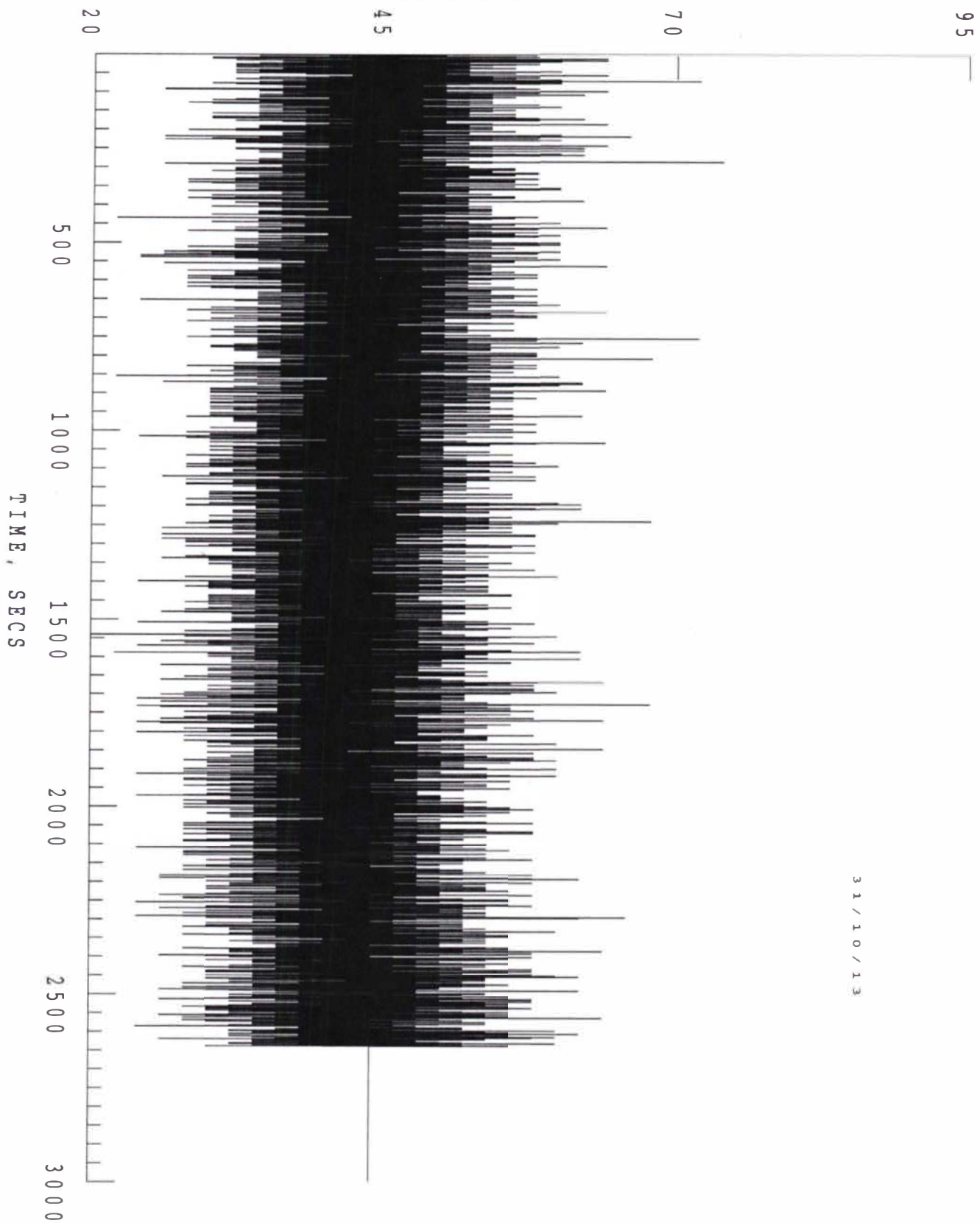
MS01

08/05/13

18999.569

50 - 3000 keV

COUNTS/0.250 S



31 / 10 / 13

From williams@gammaburst.ssl.berkeley.edu Wed Oct 30 10:04:52 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Wed, 30 Oct 2013 10:04:51 -0800 (PST)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS_RI_20130508_20358
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 30-Oct-2013 11:03:36.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.500000
Time Range Partially in SAA
No Eclipse
Time Range Partially in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

From vxw@capella2.gsfc.nasa.gov Wed May 8 10:14:06 2013
 X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
 X-Barracuda-Apparent-Source-IP: 128.183.96.236
 Date: Wed, 8 May 2013 13:13:57 -0400
 From: Bacodine <vxw@capella2.gsfc.nasa.gov>
 To: khurley@ssl.berkeley.edu
 Subject: GCN/SWIFT BAT LIGHTCURVE
 X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
 X-Barracuda-BRTS-Status: 1

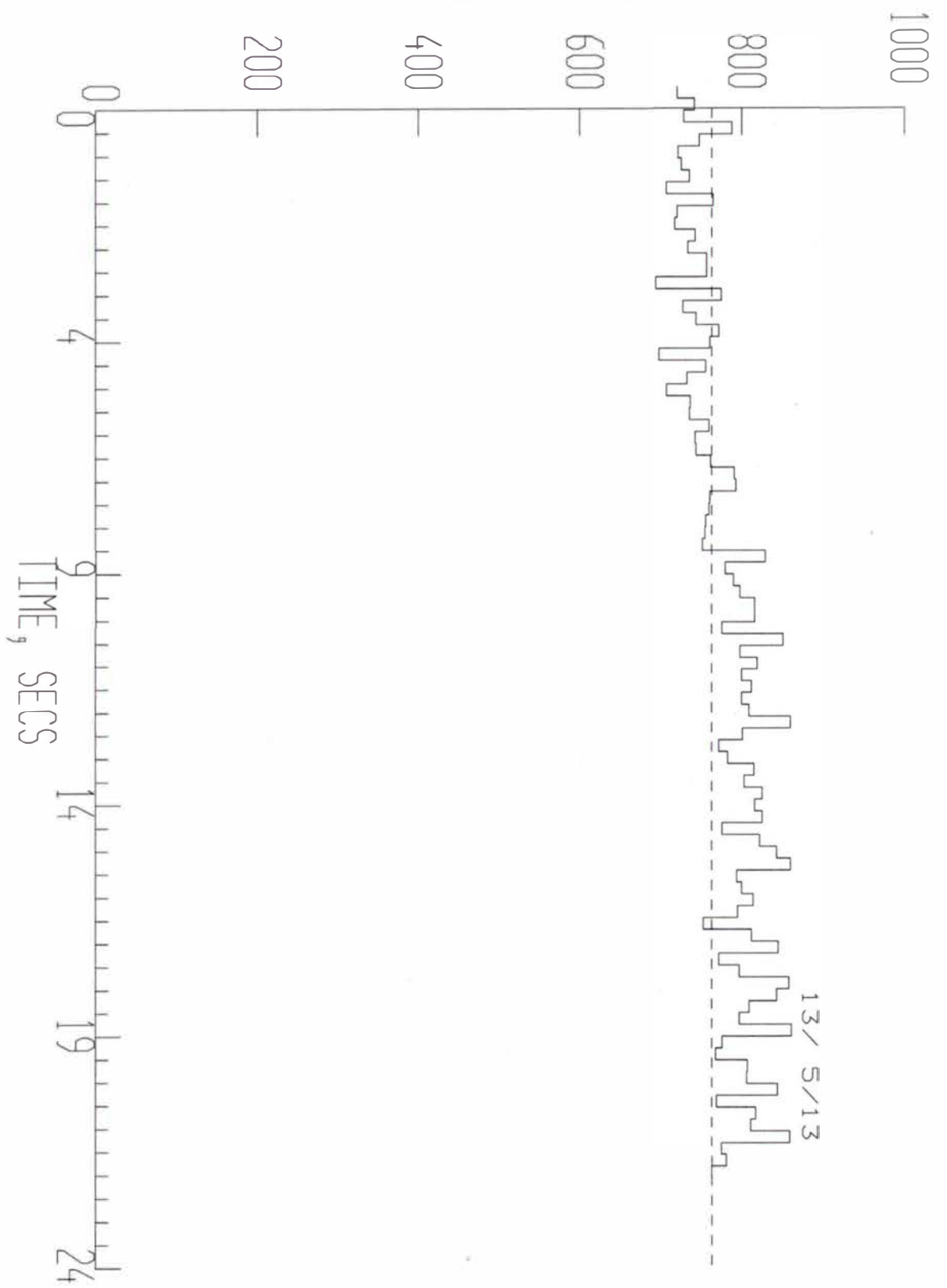
TITLE: GCN/SWIFT NOTICE
 NOTICE_DATE: Wed 08 May 13 17:12:59 UT
 NOTICE_TYPE: Swift-BAT GRB Lightcurve
 TRIGGER_NUM: 555413, Seg Num: 0
 GRB_RA: 305.312d {+20h 21m 15s} (J2000),
 305.441d {+20h 21m 46s} (current),
 304.831d {+20h 19m 19s} (1950)
 GRB_DEC: +34.949d {+34d 56' 58"} (J2000),
 +34.992d {+34d 59' 33"} (current),
 +34.789d {+34d 47' 22"} (1950)
 GRB_DATE: 16420 TJD; 128 DOY; 13/05/08
 GRB_TIME: 61733.46 SOD {17:08:53.46} UT
 TRIGGER_INDEX: 20000
 GRB_PHI: 85.88 [deg]
 GRB_THETA: 21.02 [deg]
 DELTA_TIME: 0.00 [sec]
 TRIGGER_DUR: 64.000 [sec]
 SOLN_STATUS: 0x13
 RATE_SIGNIF: 0.00 [sigma]
 IMAGE_SIGNIF: 10.58 [sigma]
 C_URL: sw00555413000msb.lc
 SUN_POSTN: 45.81d {+03h 03m 14s} +17.27d {+17d 16' 01"}
 SUN_DIST: 88.31 [deg] Sun_angle= 6.7 [hr] (West of Sun)
 MOON_POSTN: 30.81d {+02h 03m 15s} +13.74d {+13d 44' 21"}
 MOON_DIST: 78.44 [deg]
 MOON_ILLUM: 2 [%]
 GAL_COORDS: 73.68, -1.00 [deg] galactic lon,lat of the burst (or transient)
 ECL_COORDS: 320.85, 52.34 [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 = 218.89,-9.53 [deg]

42 s

 $6.6 \times 10^{-7} \text{ erg cm}^{-2}$ $0.7 \text{ phot/cm}^2 \text{ s}$

SWIFT 08/05/13 61733.468
25- 100 keV

COUNTS/0.256 S



MS01

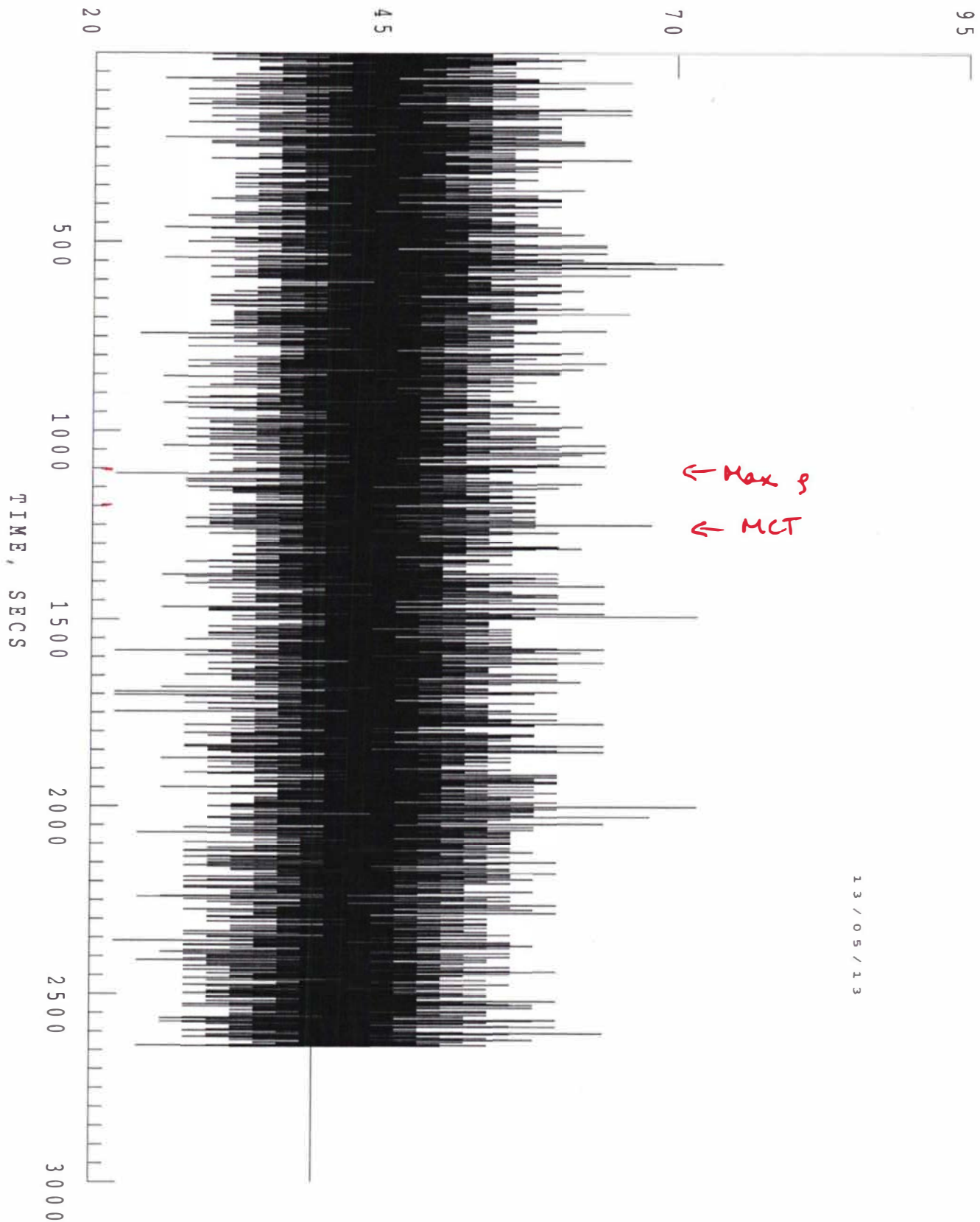
08/05/13

60398.878

8

50 - 3000 keV

COUNTS/0.250 S

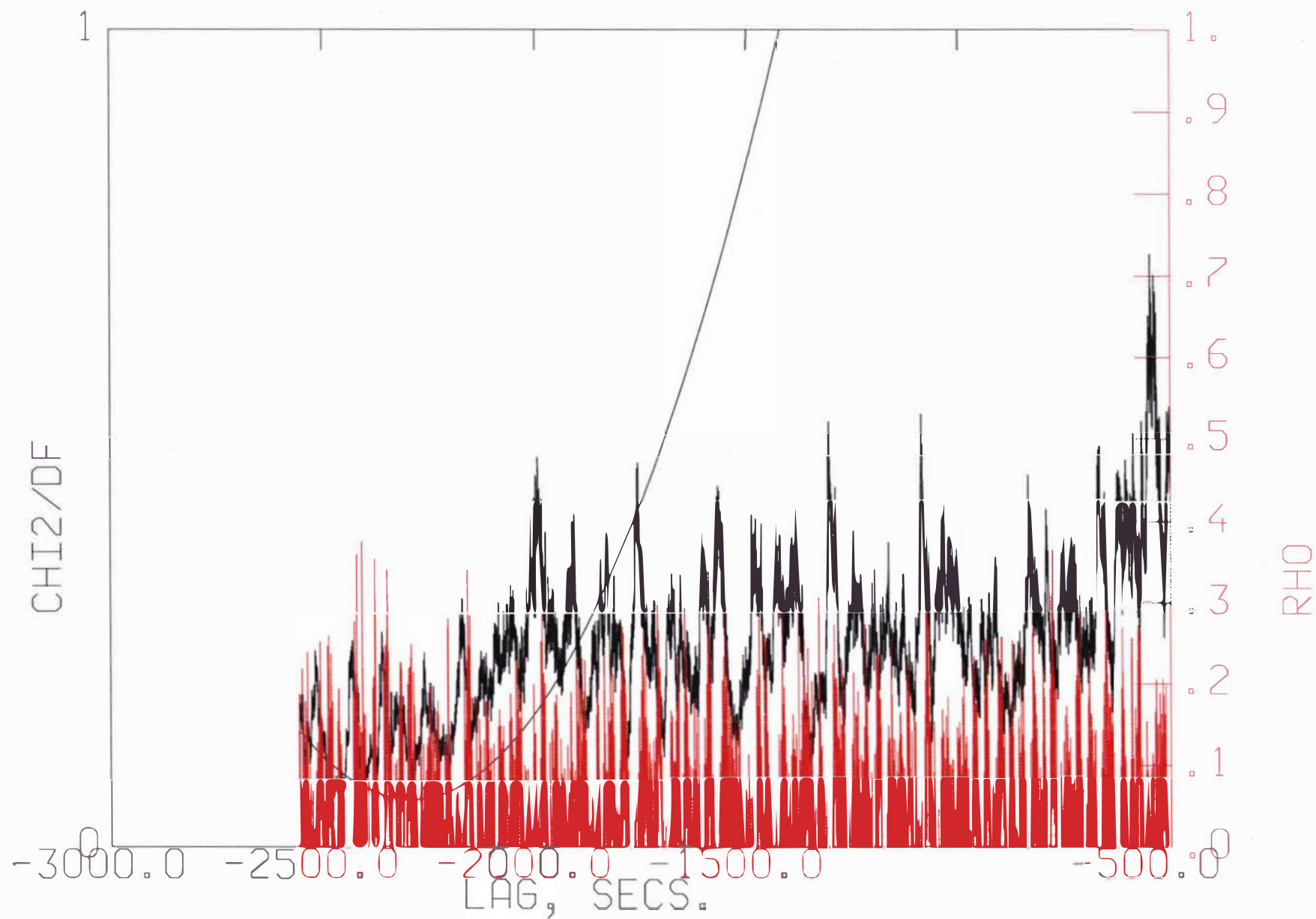


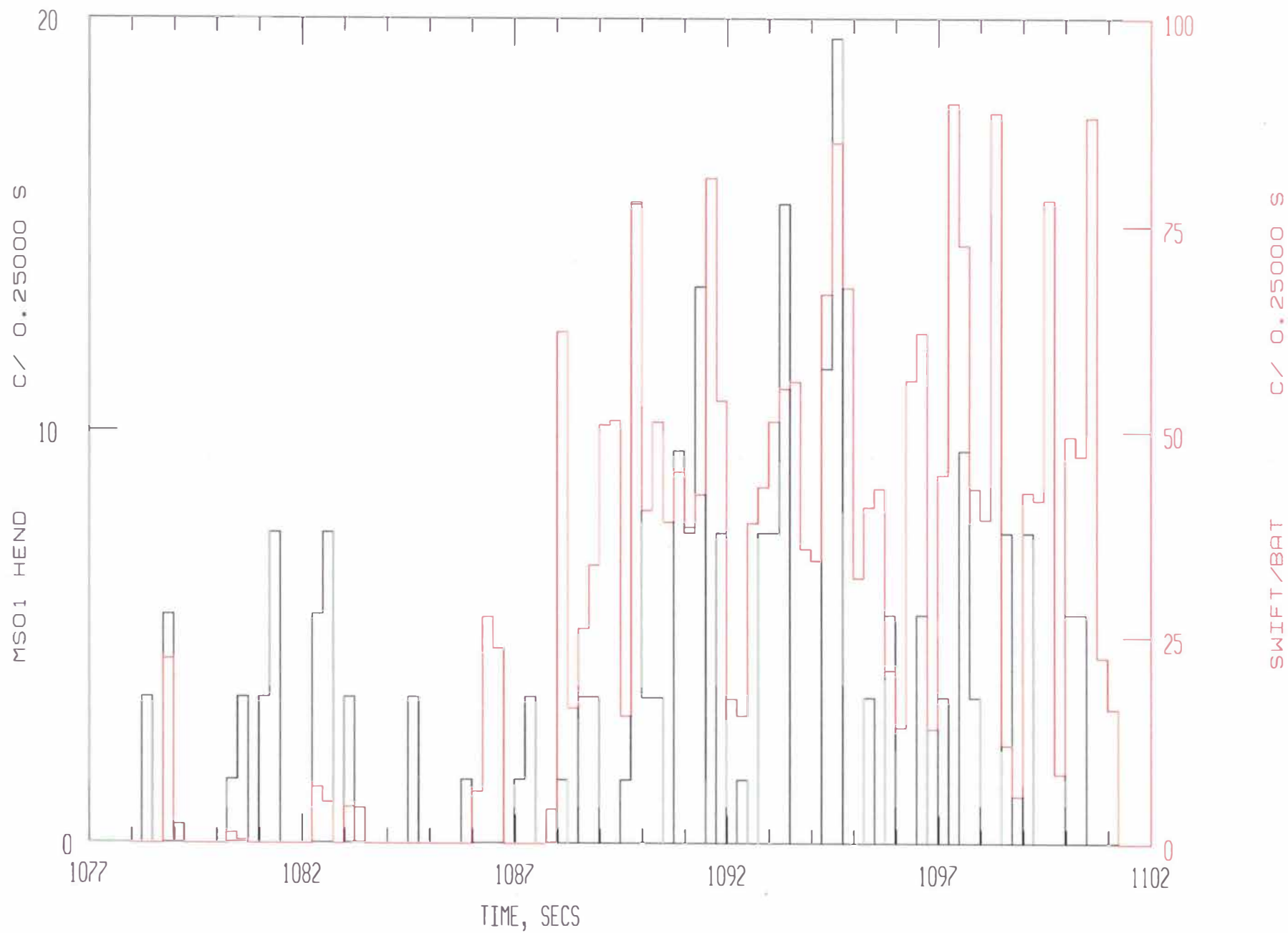
B

MS01 HEND -SWIFT/BAT CORRELATION

08/05/13 60398.878

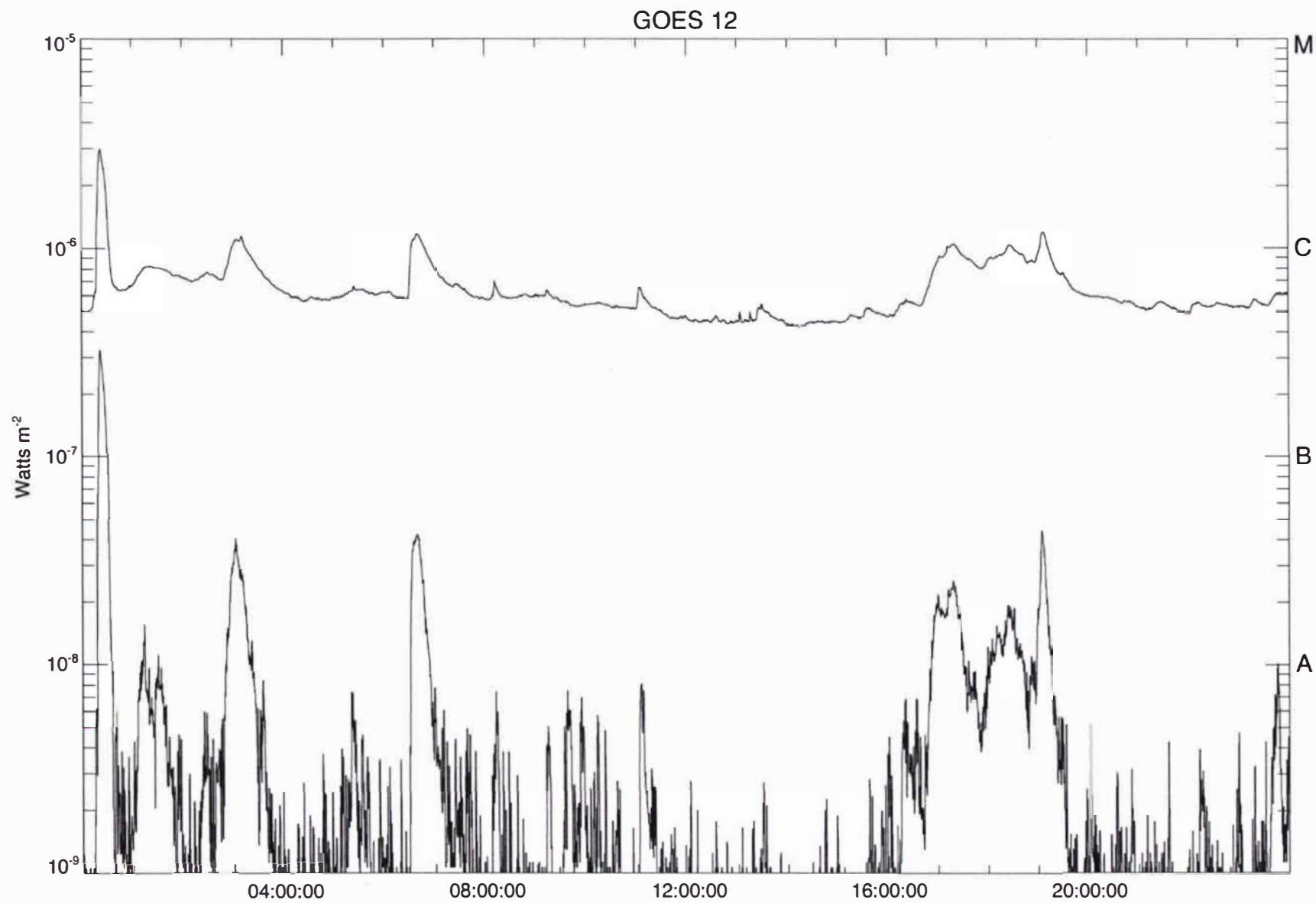
24/10/13





From williams@gammaburst.ssl.berkeley.edu Mon May 13 23:02:02 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
v-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Mon, 13 May 2013 23:02:01 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SWIFT_20130508_61733
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 13-May-2013 23:00:41.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Time Range Partially in SAA
No Eclipse
Time Range Partially in non-SAA data gap
No Data Available For This Time Range
Do Not Retry



Data Start: 13/05/08, 0000:12

Plot created: 13/05/11, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS1

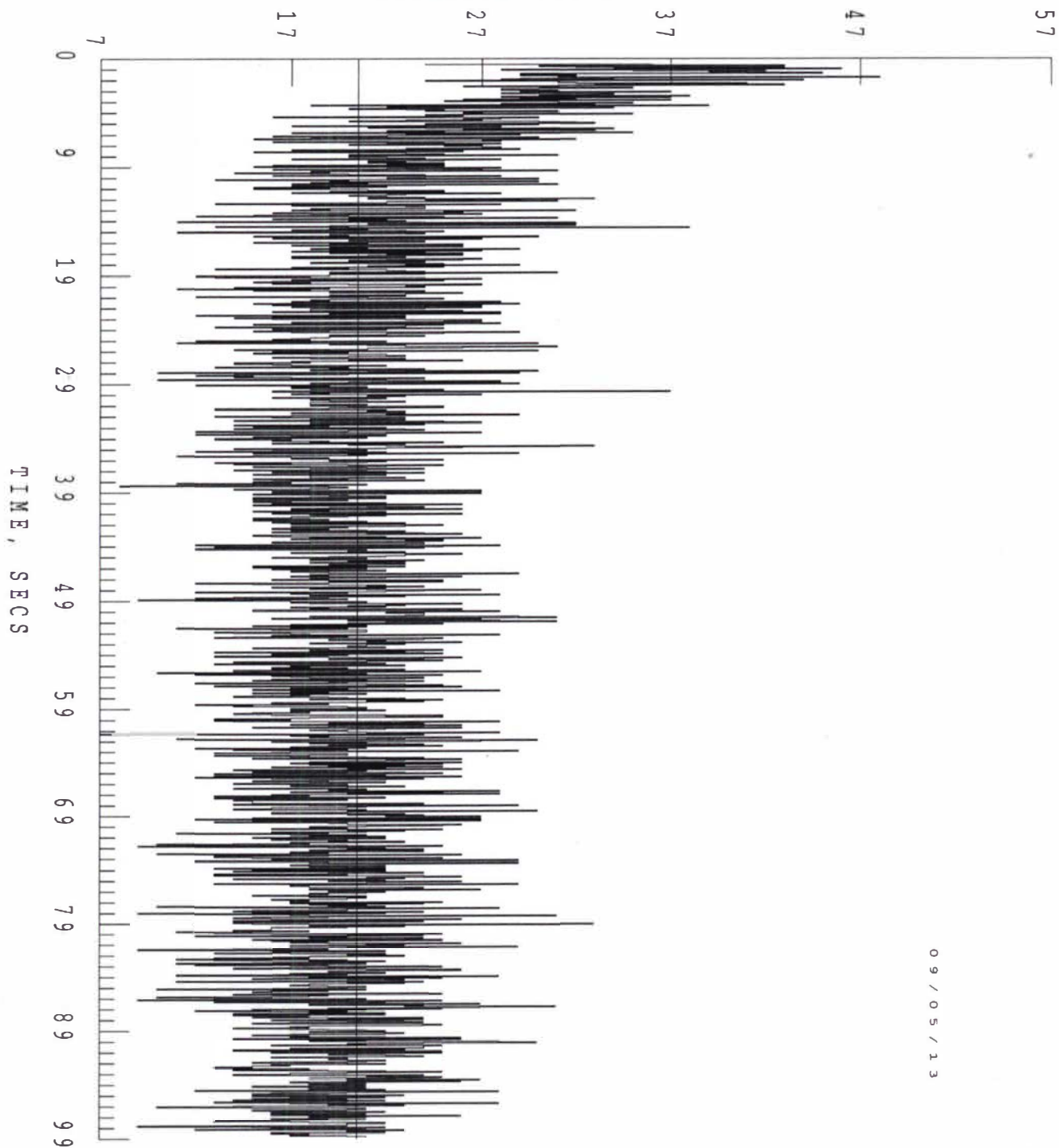
09/05/13

6740.590

A

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20130509 06740

TRIGGER TIME: 09/05/13 DOY 129 Julian 2456422.57801 UT = 01.872 01:52:20 (06740.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

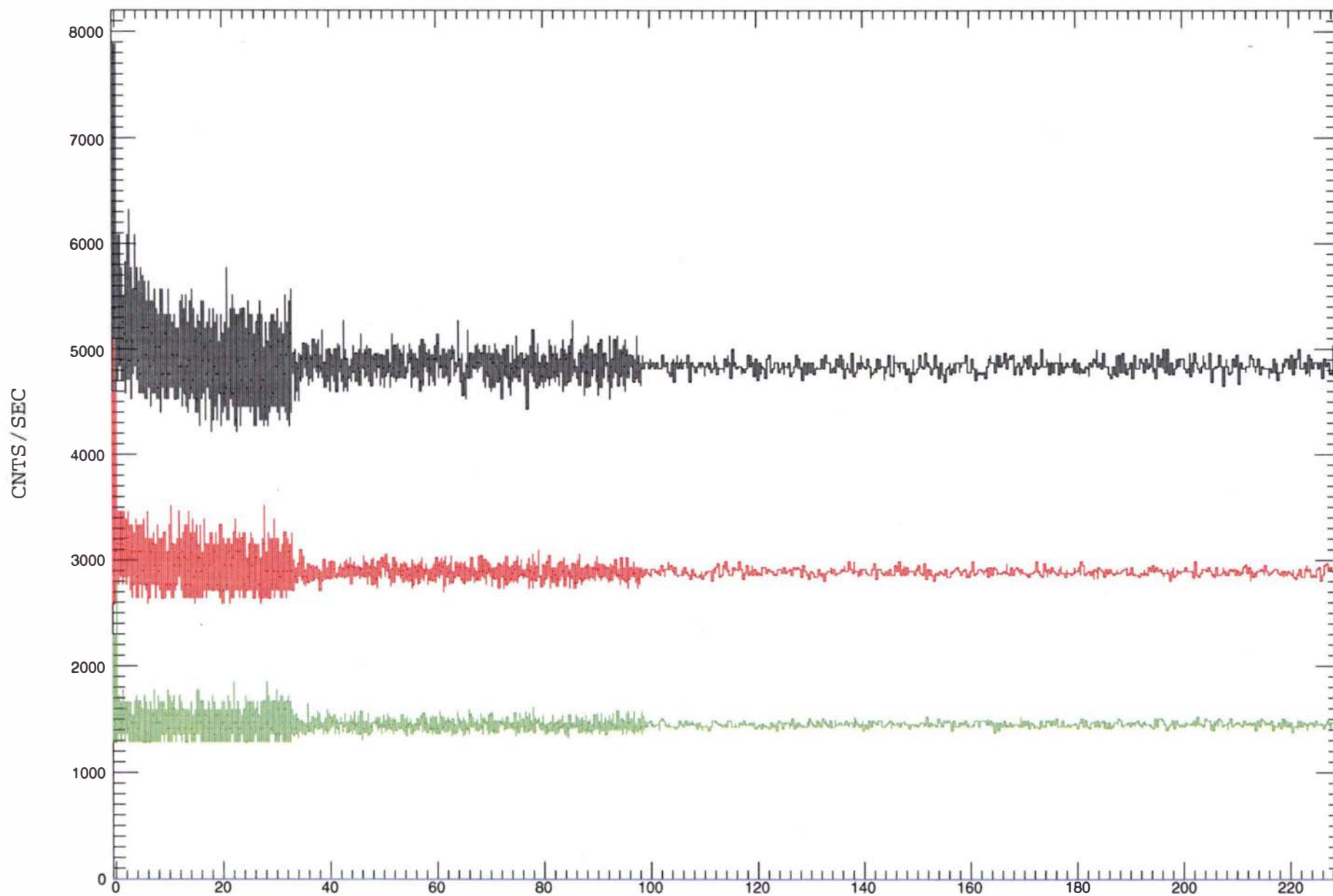
Chan 4 : [> 10 MeV]

Channel 1 + 3900

Channel 2 + 2600

Channel 3 + 1300

Channel 4 + 0



:ONDS

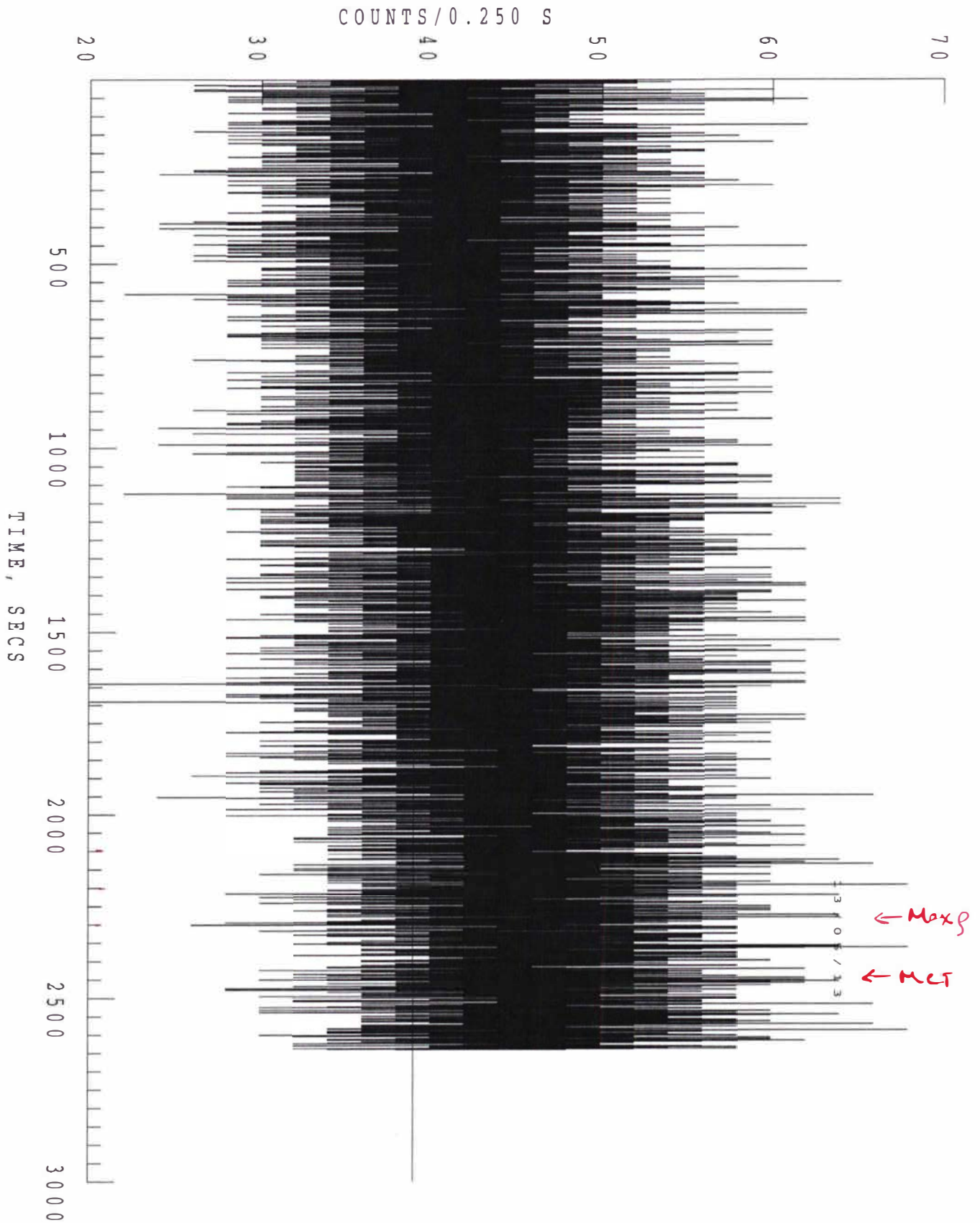
MS01

09/05/13

5378.356

A

50 - 3000 keV



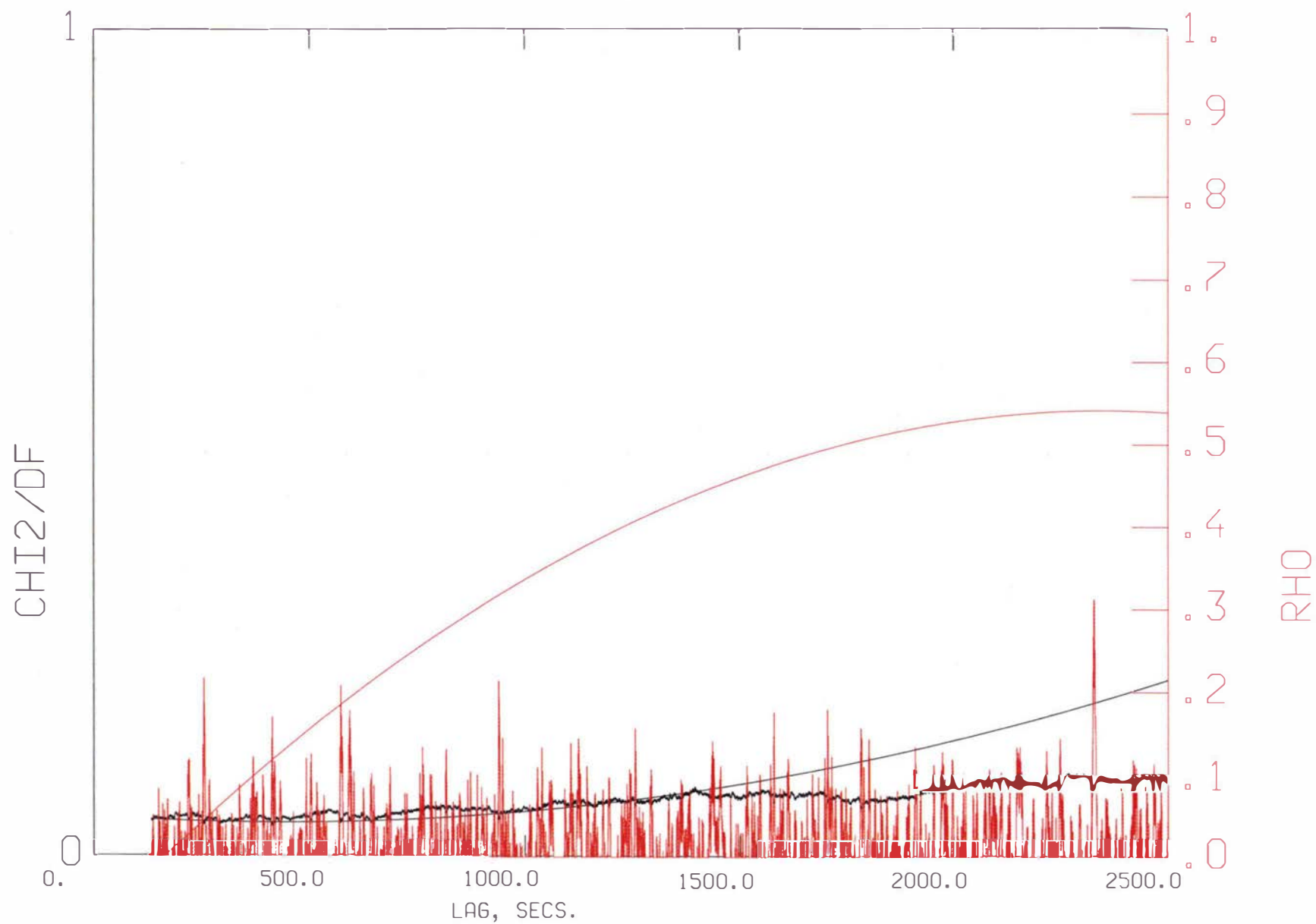
A

INTEGRAL -MS01 HEND CORRELATION

09/05/13

6734.773

24/10/13



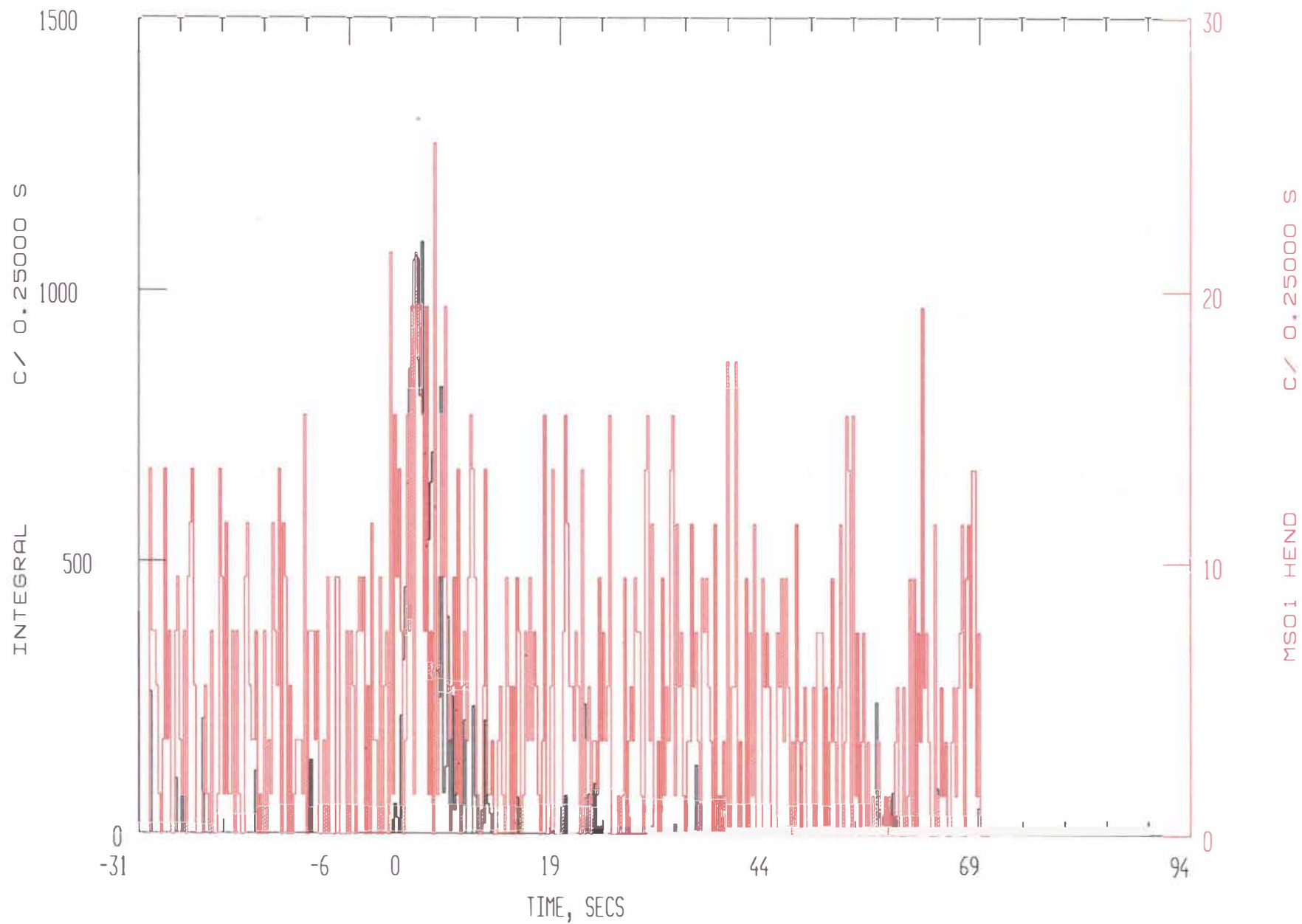
A

INTEGRAL -MS01 HEND CORRELATION

09/05/13

6734.773

24/10/13



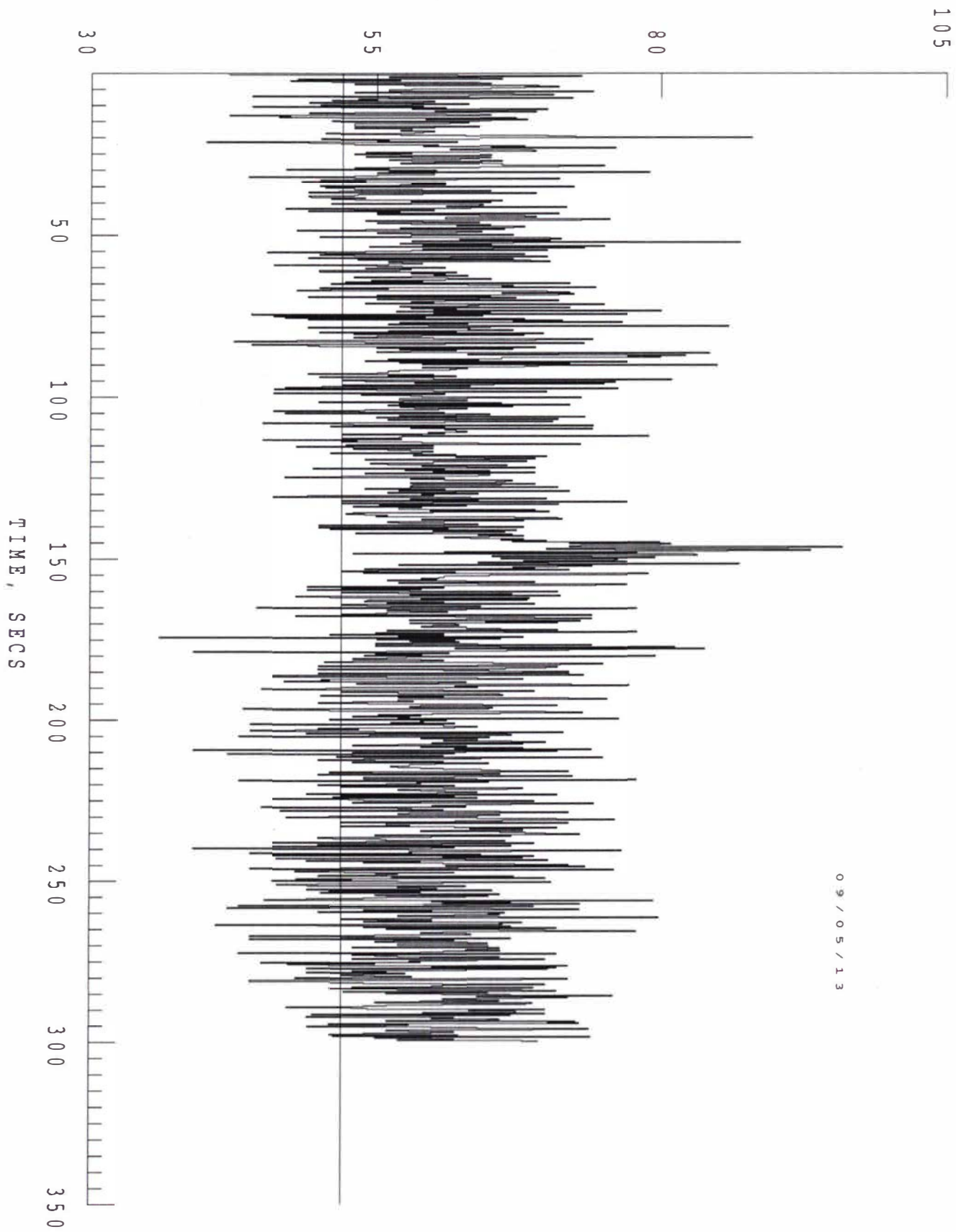
HESSI

09/05/13 6590.000 (KONUS1_20130509_06740)

A

25- 150 keV

COUNTS/0.250 S



INTEGRAL

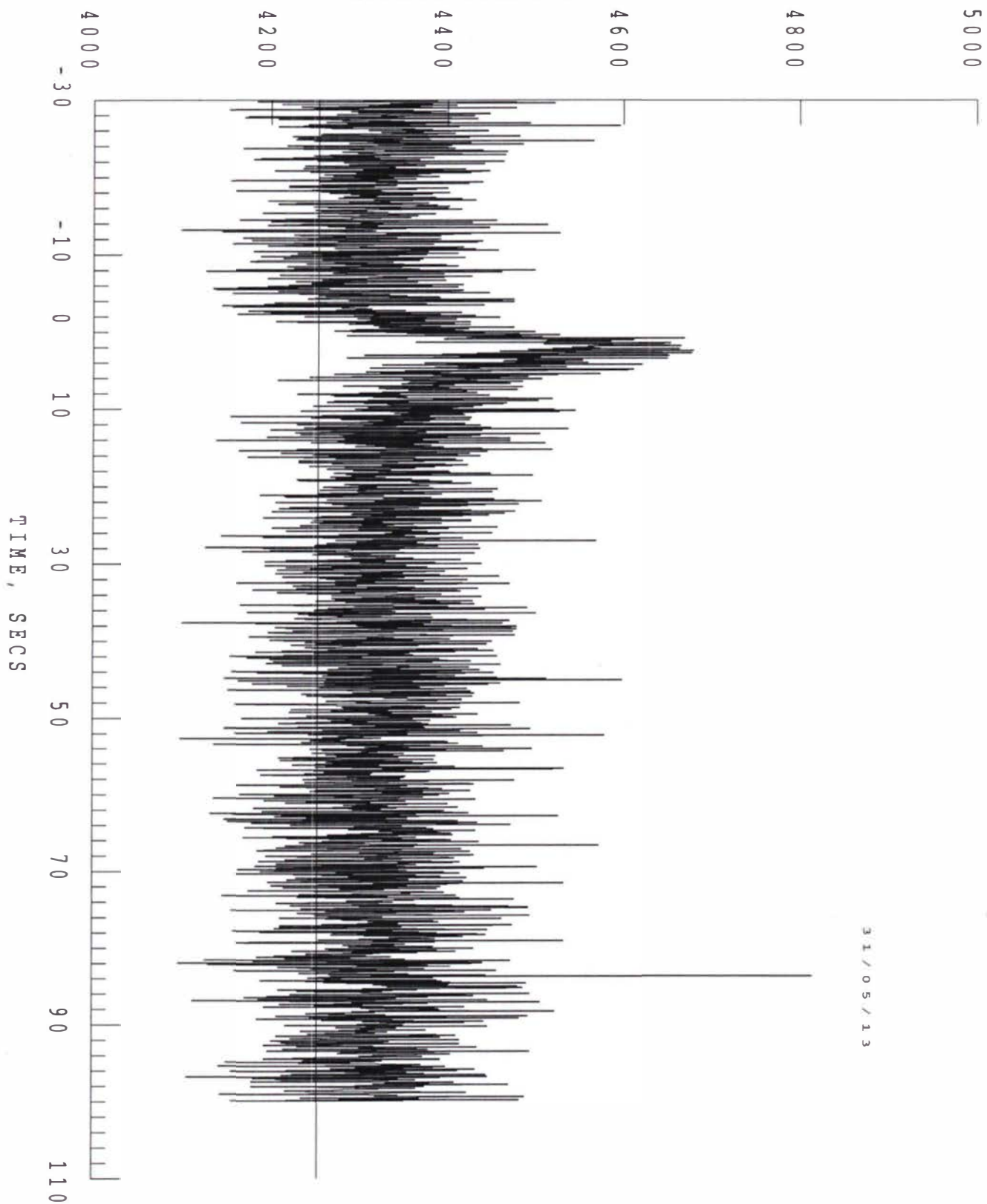
09/05/13

6734.773

A

100-10000 keV

COUNTS/0.050 S



Subject: [lpn] BAT lightcurve for trigger at 130509_0152

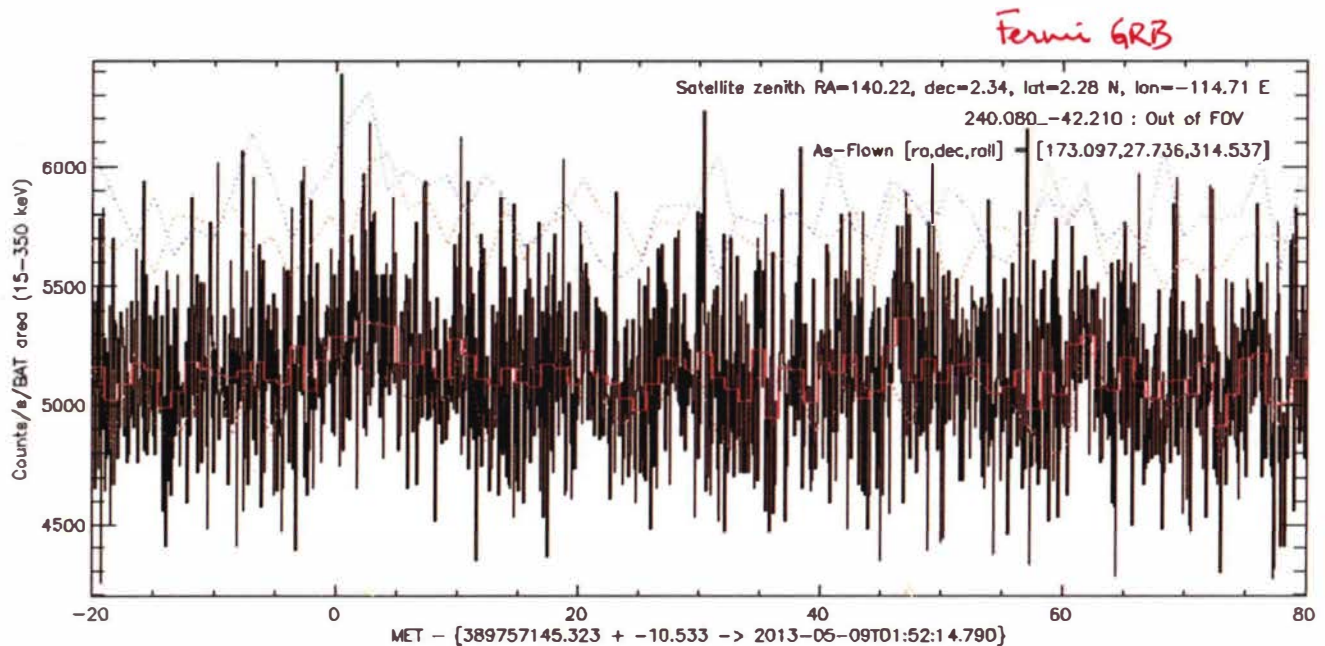
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/8/2013 9:59 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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/tmp/130509_0152.png



```
% /usr/local/bin/swinfo -o 389757145.323 -s 240.080_-42.210
Time(MET + UTCF -> UT): 389757145.323 + -10.533 -> 2013-05-09T01:52:14.790
YYMMDD_SOD: 130509_06734.790 DOY=129
Swift Zenith(RA,dec): 140.22, 2.34
Swift Location(lon,lat,alt): -114.71 E, 2.28 N, 576 km
Obs Sequence Number: 00554620042
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-09 01:41:51 - 02:11:49
Obs Pointing(ra,dec,roll): 173.097, 27.736, 314.54
240.080_-42.210_imageloc (boresight_dist, angle): (93, 92)
240.080_-42.210_exposure (cm2 cos adjusted): 0
240.080_-42.210_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

lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130509_0152_bat64ms_ipn

87.0 KB

/tmp/130509_0152.png

20.7 KB

GLAST

09/05/13

6734.786

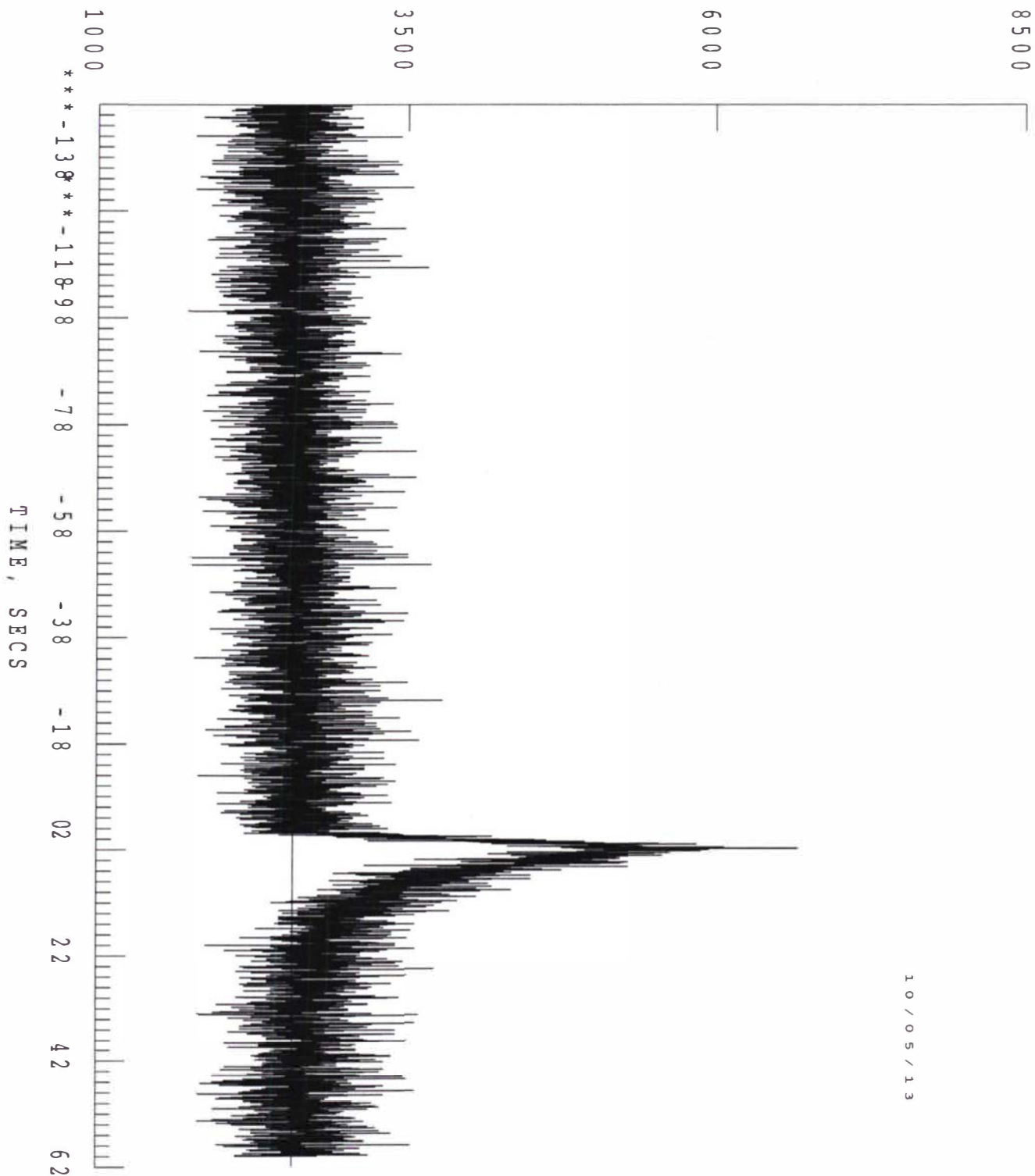
01:52:14

A

26 - 293 keV

240.85 -40.22 2.1

COUNTS/0.032 S



SUZAKU

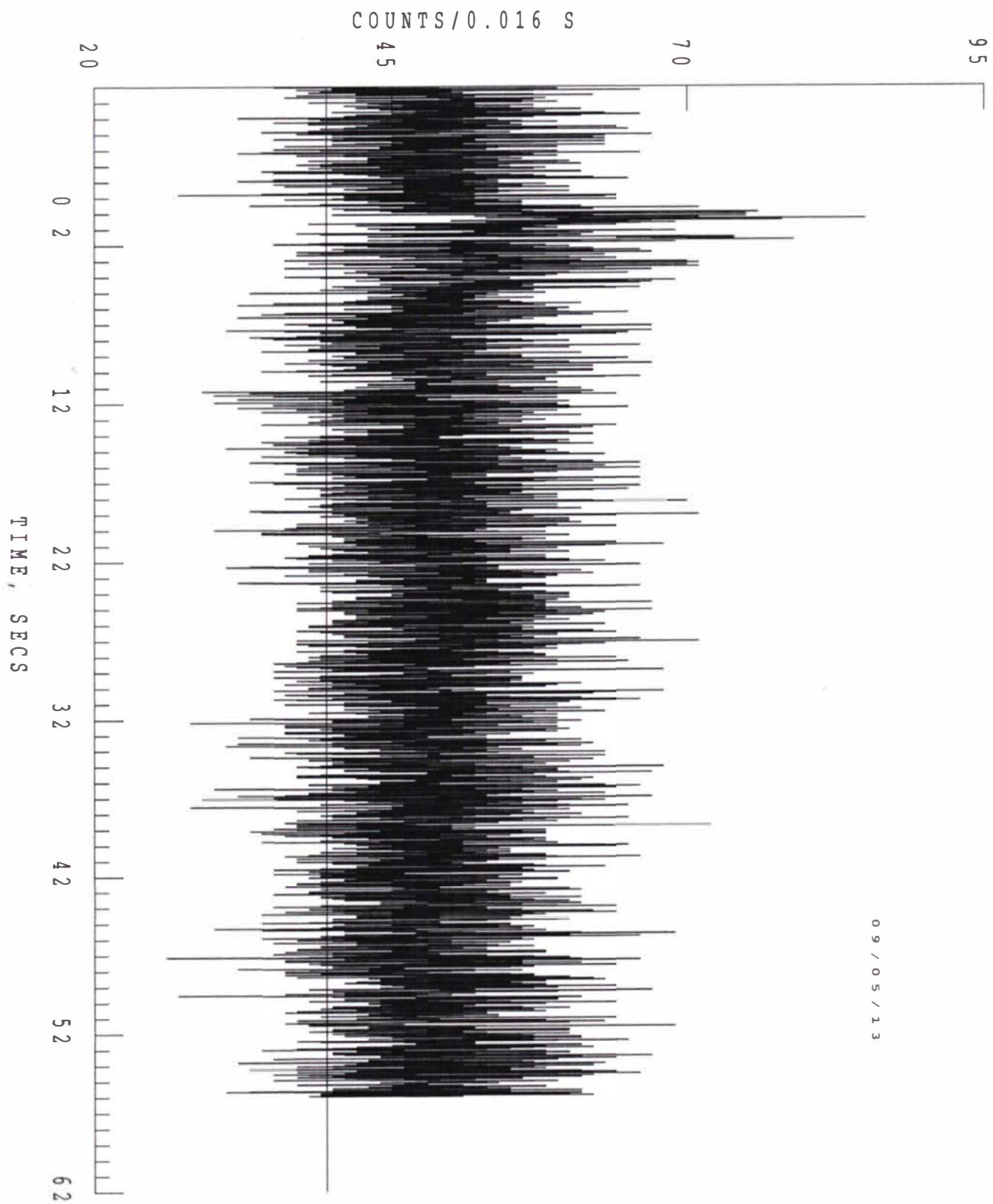
09/05/13

30424.365

~~A~~ B

50 - 240 keV

08:27:04



SUZAKU

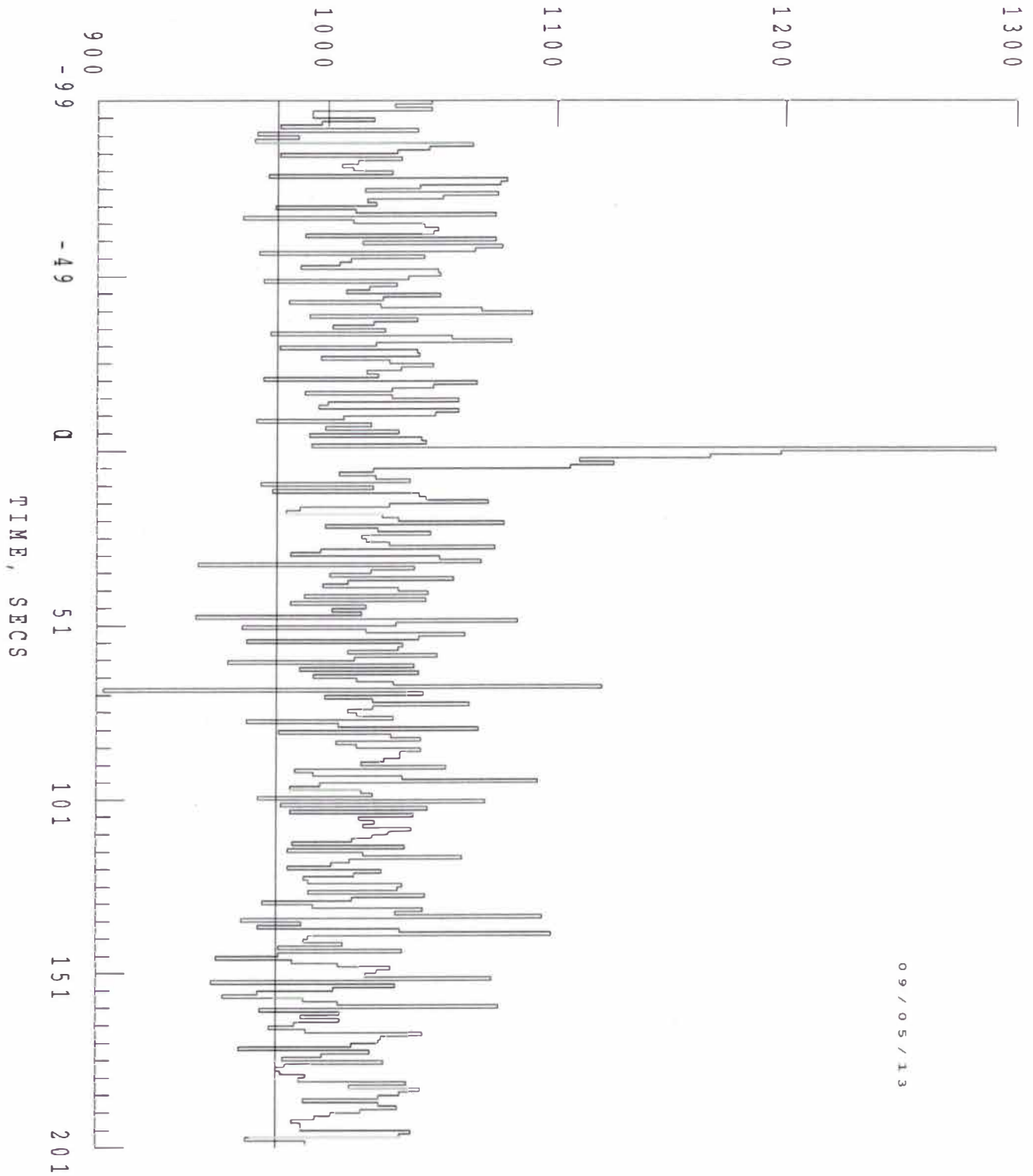
09/05/13

30423.866

B

50 - 240 keV

COUNTS/1.000 S



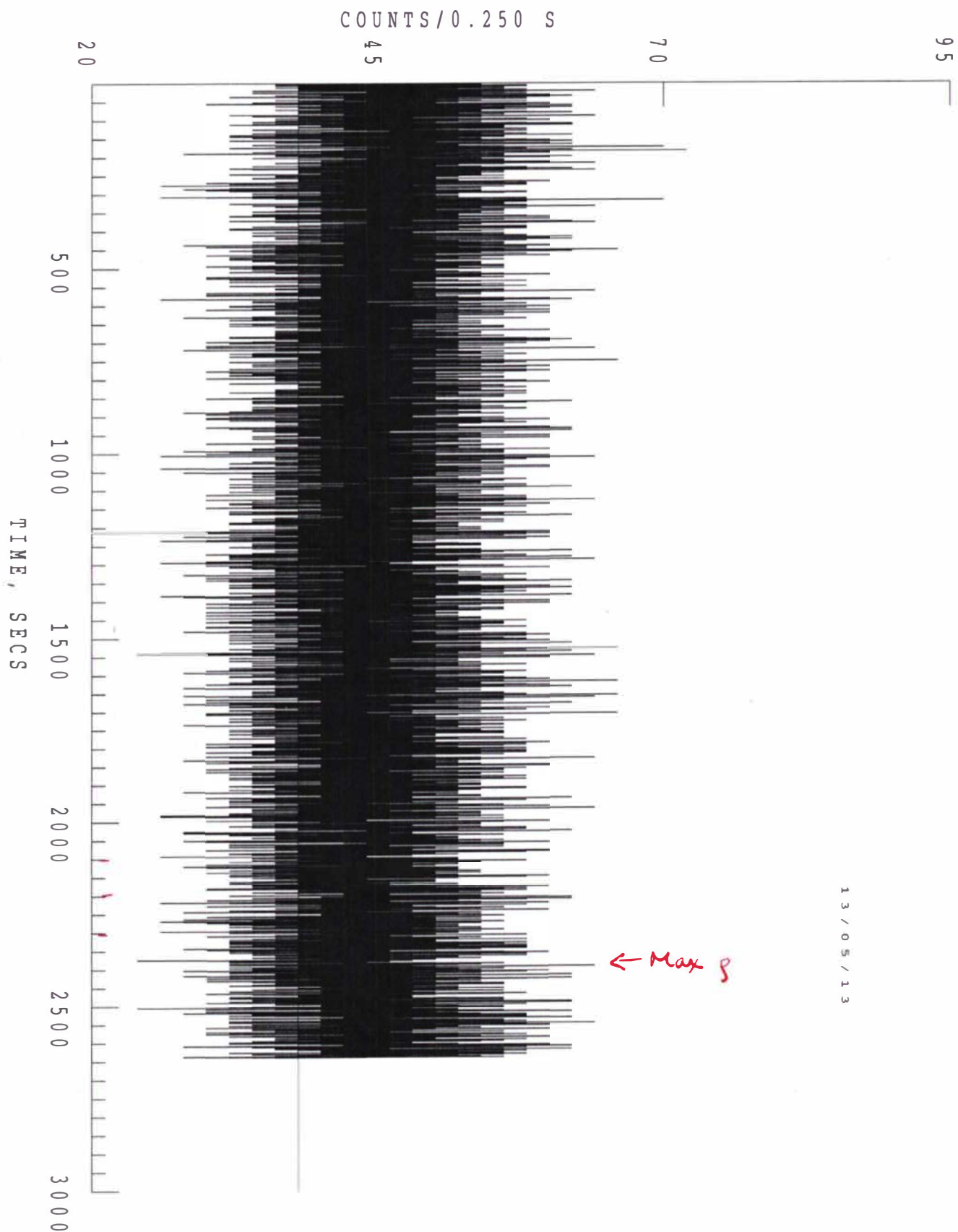
B

MS01

09/05/13

29077.961

50 - 3000 keV



SUZAKU

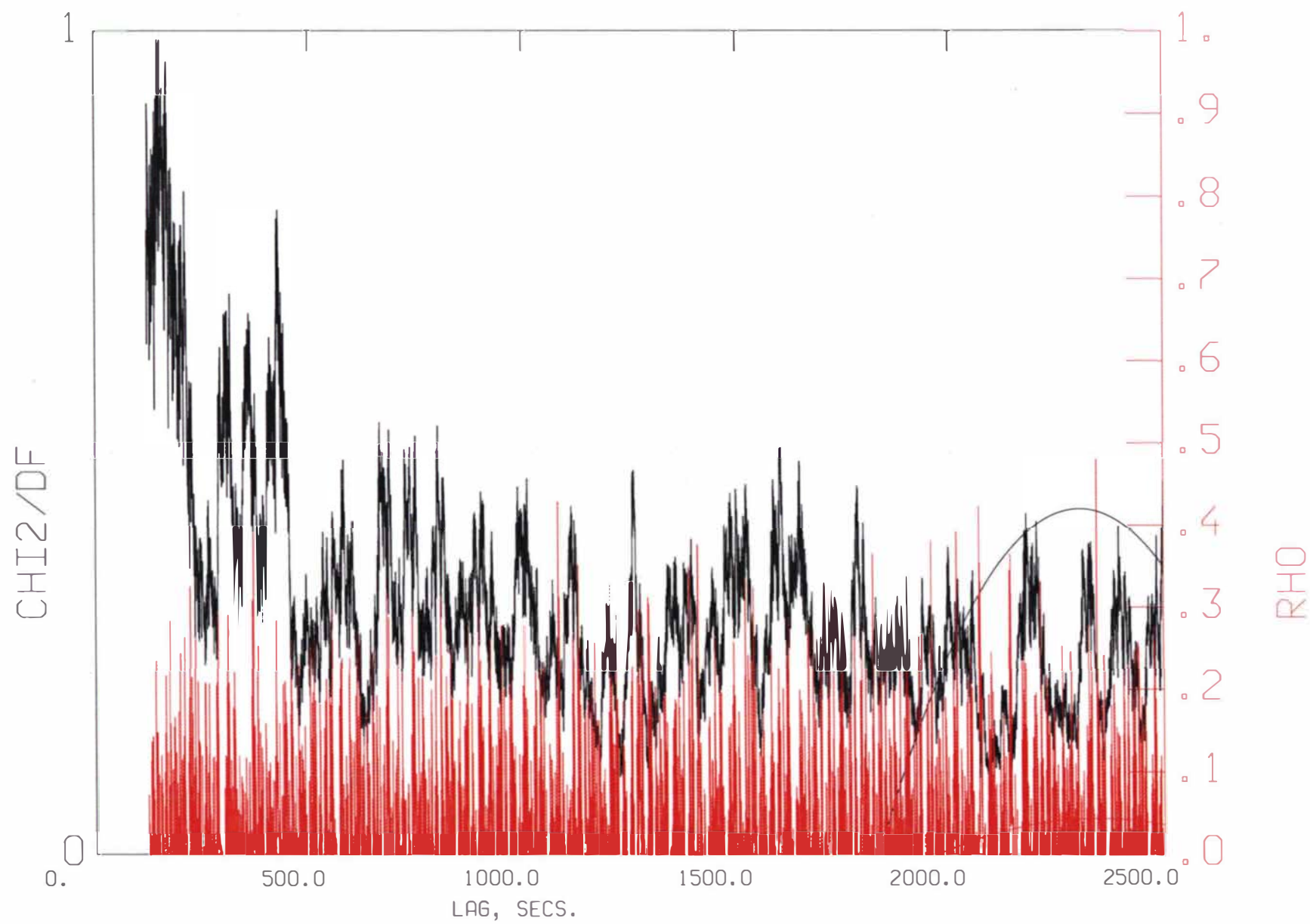
-MS01 HEND

CORRELATION

09/05/13

30424.365

24/10/13

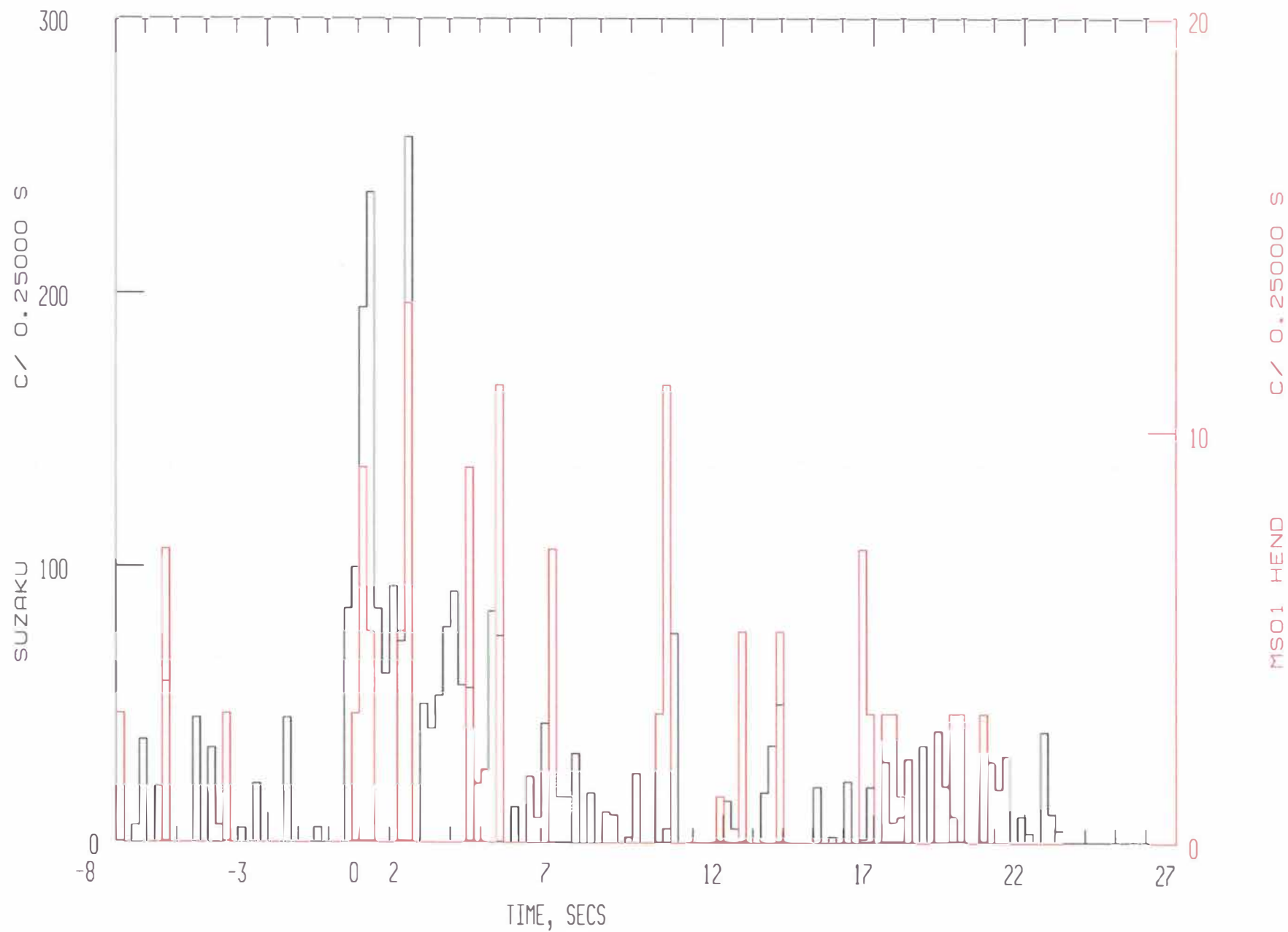


B

SUZAKU -MS01 HEND CORRELATION

09/05/13 30424.365

24/10/13

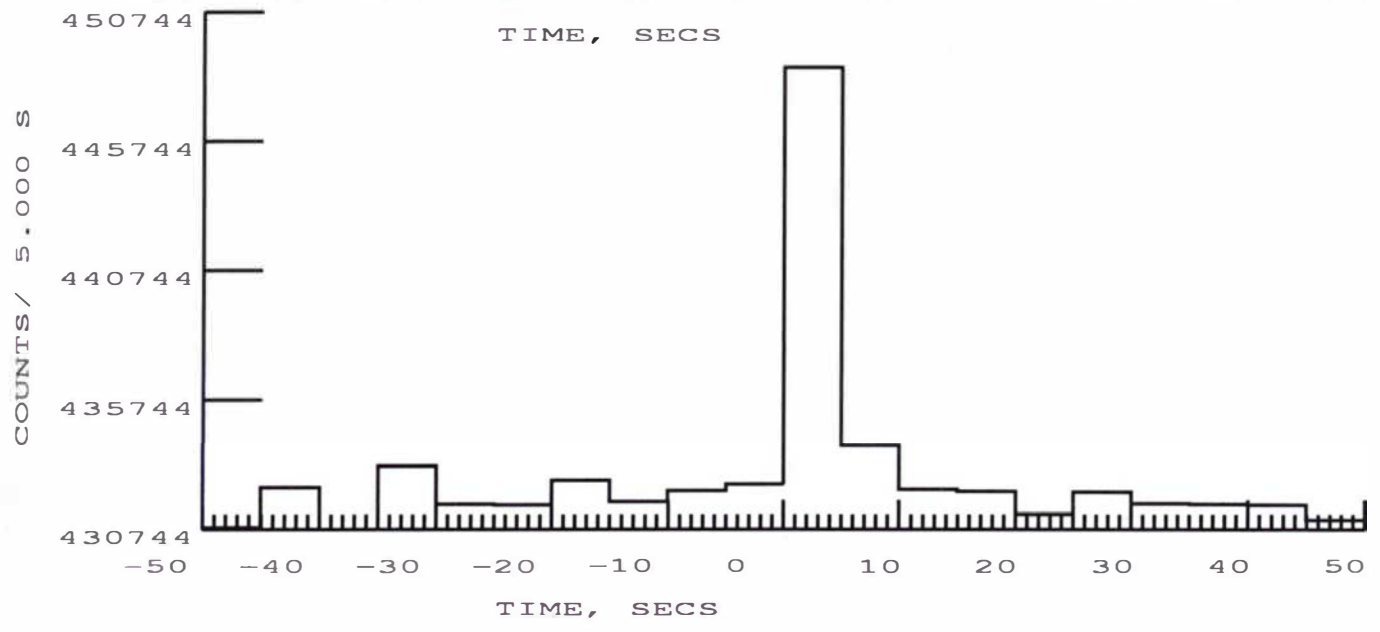
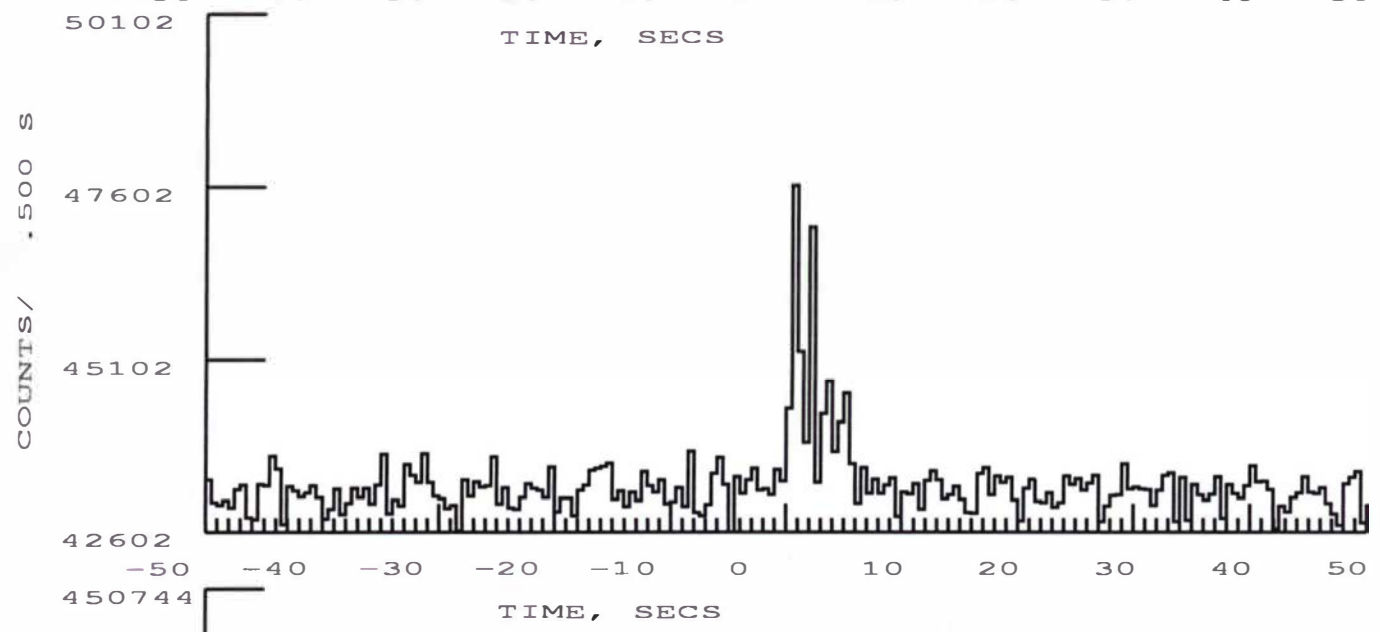
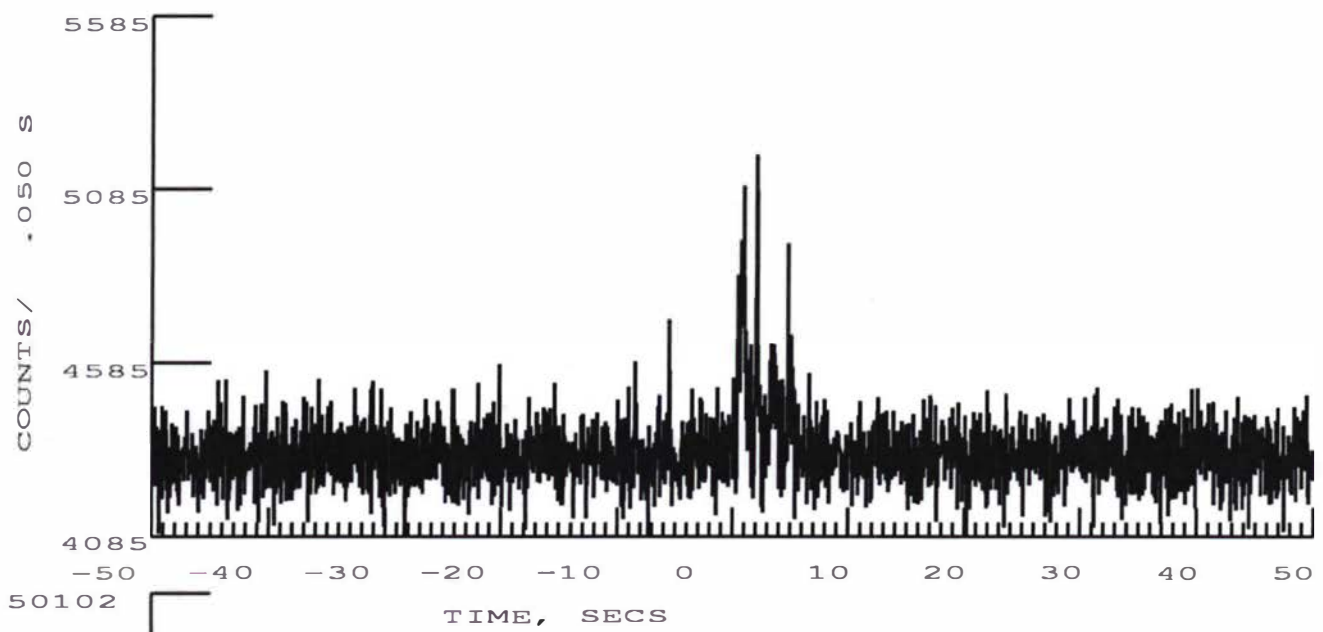


B

From williams@gammaburst.ssl.berkeley.edu Thu May 9 23:03:51 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
v-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Thu, 9 May 2013 23:03:51 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20130509_30424
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 9-May-2013 23:02:33.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Time Range Partially in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

INTEGRAL 09/05/13 30424.000 08:27:04.0 24/10/13



C

From val@mail.ioffe.ru Sun May 12 06:11:35 2013
X-Barracuda-Envelope-From: val@mail.ioffe.ru
X-Barracuda-Apparent-Source-IP: 194.85.224.38
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
Date: Sun, 12 May 2013 17:06:41 +0400
From: "Valentin Pal'shin" <val@mail.ioffe.ru>
To: Kevin Hurley <khurley@ssl.berkeley.edu>
Subject: GBM bnl30509678
X-Barracuda-BRTS-Status: 1

Dear Kevin,

46.6, 17.5, 0
MCT 57390

There was a GBM trigger at 2013-05-09 T0(GBM)=58611.95 s UT
(16:16:51.95) classified as a solar flare (according to the GBM location
the Sun distance was 2.7 deg). This event was also detected by
Konus-Wind in the waiting mode with high S/N. The KW ecliptic altitude
response also indicates that the source is near the ecliptic plane;
besides the event is rather soft without noticeable excess above the bg
in the G3 band (300-1100 keV), so it might be a SF. The problem is that
I do not see any solar flare in the GOES data at this time:
<http://www.swpc.noaa.gov/ftpdir/indices/events/20130509events.txt>
The nearest SF started at 16:33, i.e. ~16 min later and was just C1.4 class:
3440 1633 1642 1655 G15 5 XRA 1-8A C1.4 1.5E-03

Unfortunately there have been no MESSENGER data for May, 9, and, as you
wrote, the HEND database is also out of service. It would be interesting
to get a distant s/c detection for this event and check whether the
triangulation is consistent with the solar origin.

Best wishes,

Valentin

--

Valentin Pal'shin

Laboratory for Experimental Astrophysics
Ioffe Physical Technical Institute
Russian Academy of Sciences
26 Polytekhnicheskaya, St Petersburg 194021,
Russian Federation

email: val@mail.ioffe.ru
Tel: (7)-812-2927177
Fax: (7)-812-2971963

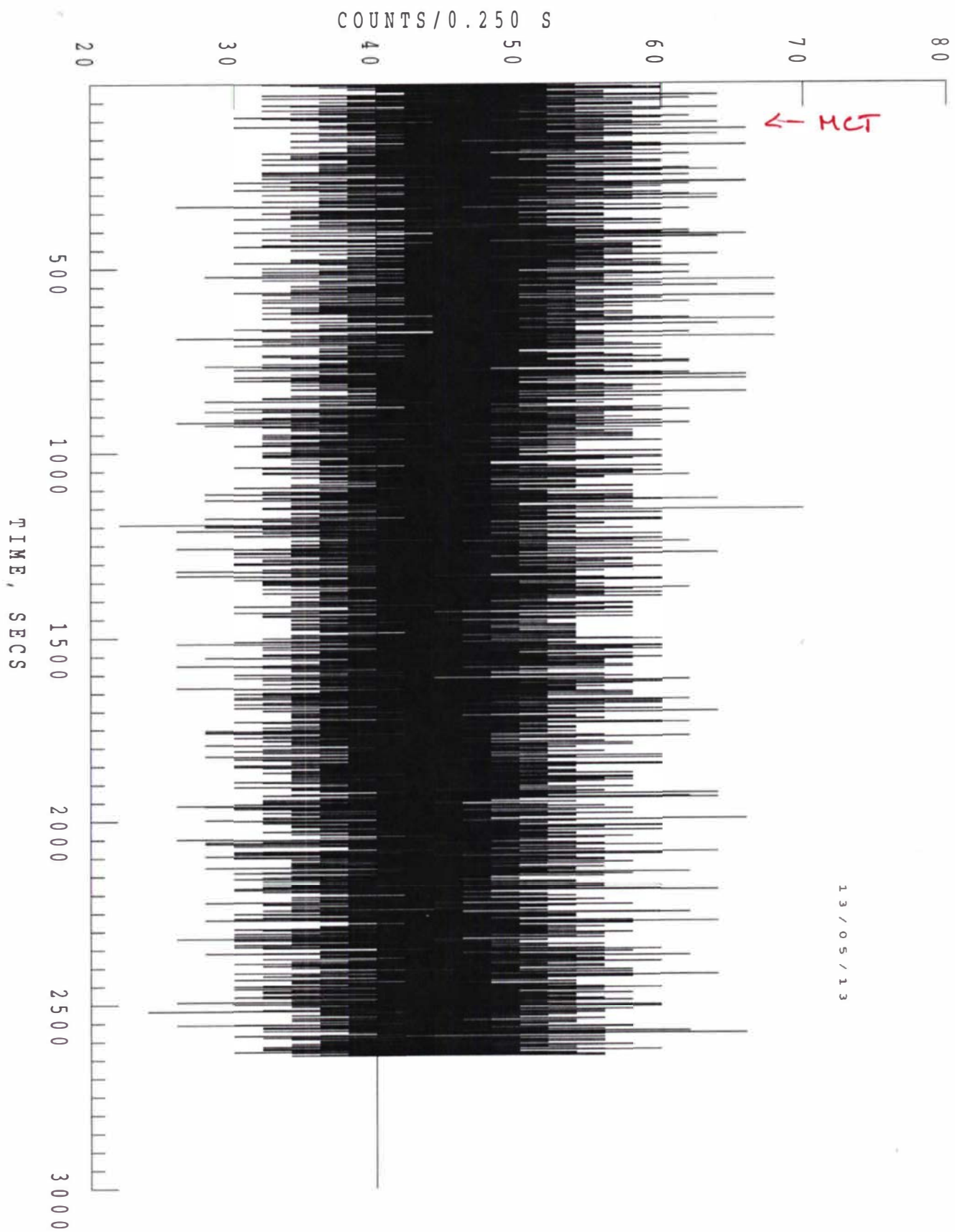
MS01

09/05/13

57277.500

C

50 - 3000 keV



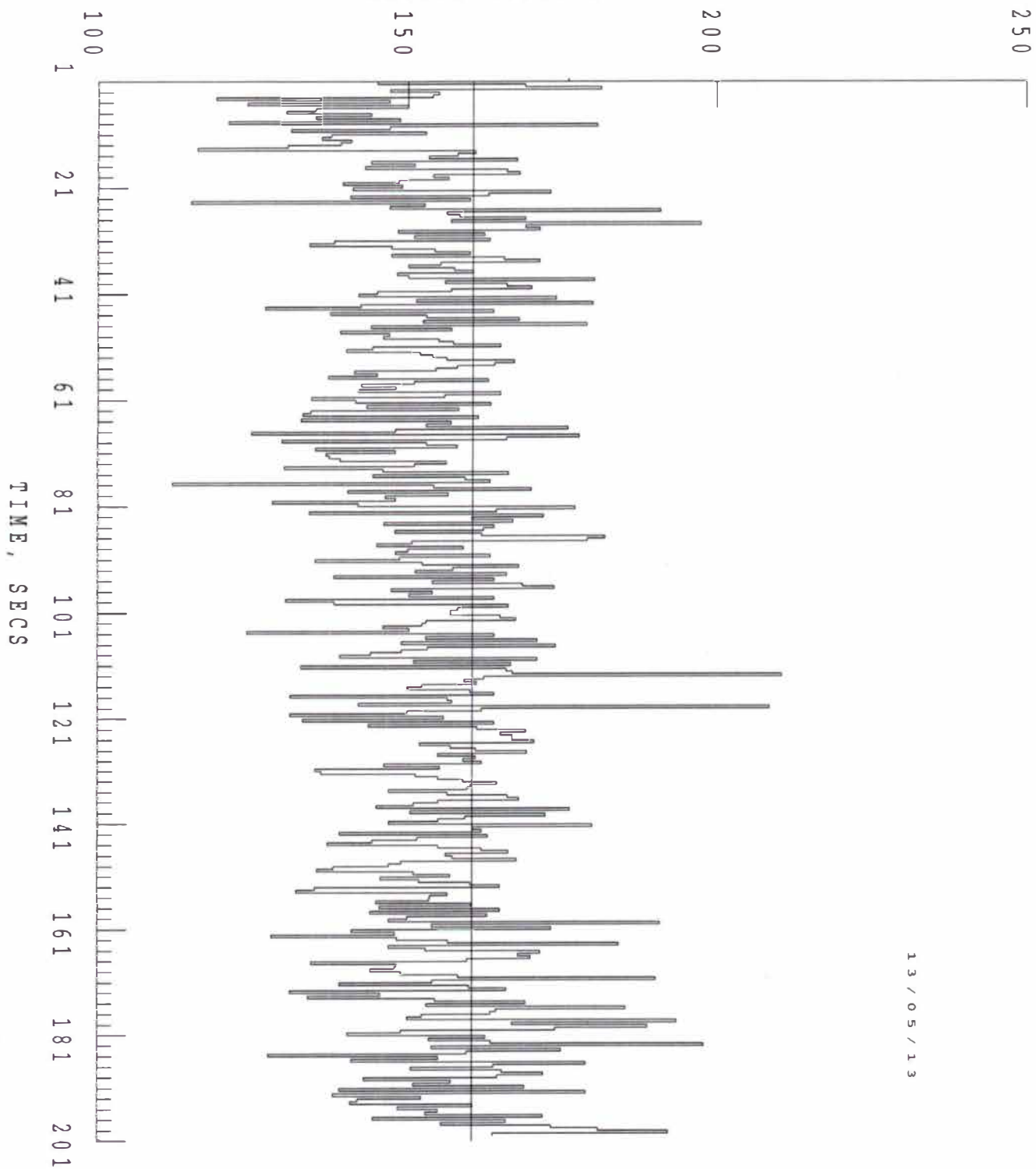
HESSI

09/05/13 58511.000 (FERMI_20130509_58611)

25- 150 keV

e

COUNTS/0.500 S



Subject: [Ipn] BAT lightcurve for trigger at 130509_1616

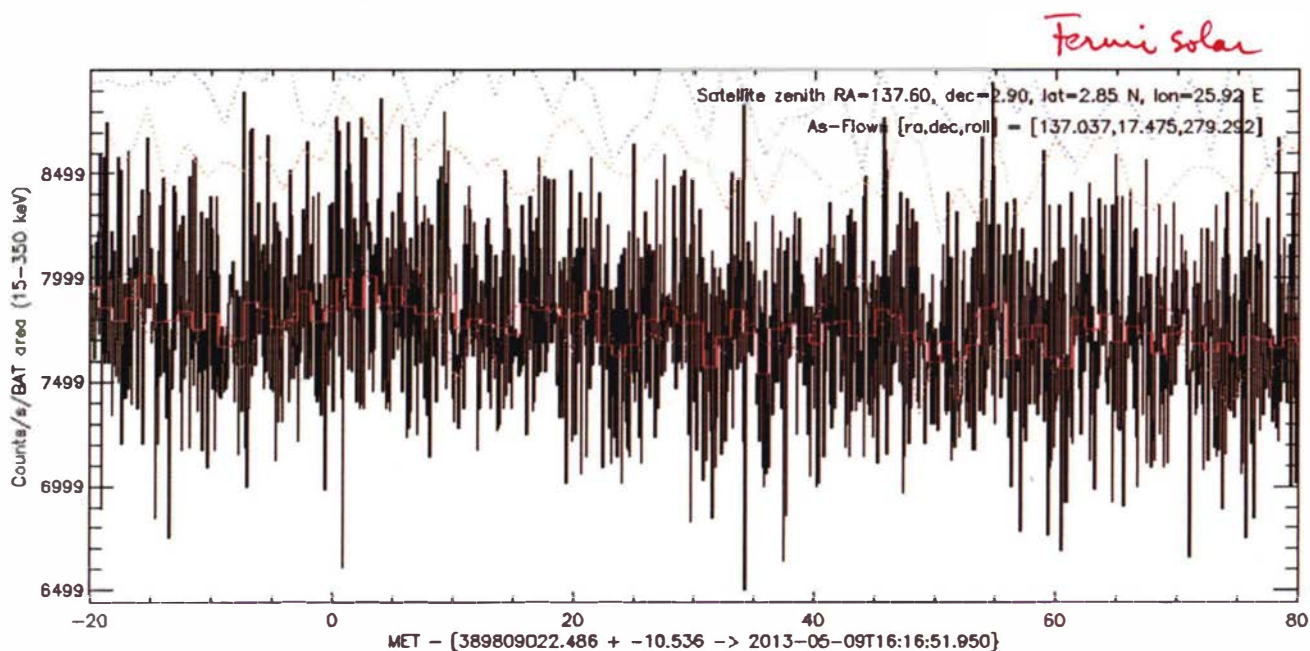
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/9/2013 2:27 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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/tmp/130509_1616.png



```
% /usr/local/bin/swinfo -o 389809022.486
Time(MET + UTC -> UT): 389809022.486 + -10.536 -> 2013-05-09T16:16:51.950
YYMMDD_SOD: 130509_58611.950 DOY=129
Swift Zenith(RA,dec): 137.60, 2.90
Swift Location(lon,lat,alt): 25.92 E, 2.85 N, 577 km
Obs Sequence Number: 00555163005
Obs Target Name: GRB 130505A
Obs Date and Times: 2013-05-09 16:12:08 - 16:37:49
Obs Pointing(ra,dec,roll): 137.037, 17.475, 279.29
```

David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130509_1616.png

19.1 KB

/tmp/130509_1616_bat64ms_ipn

87.1 KB

GLAST

09/05/13

72523.355

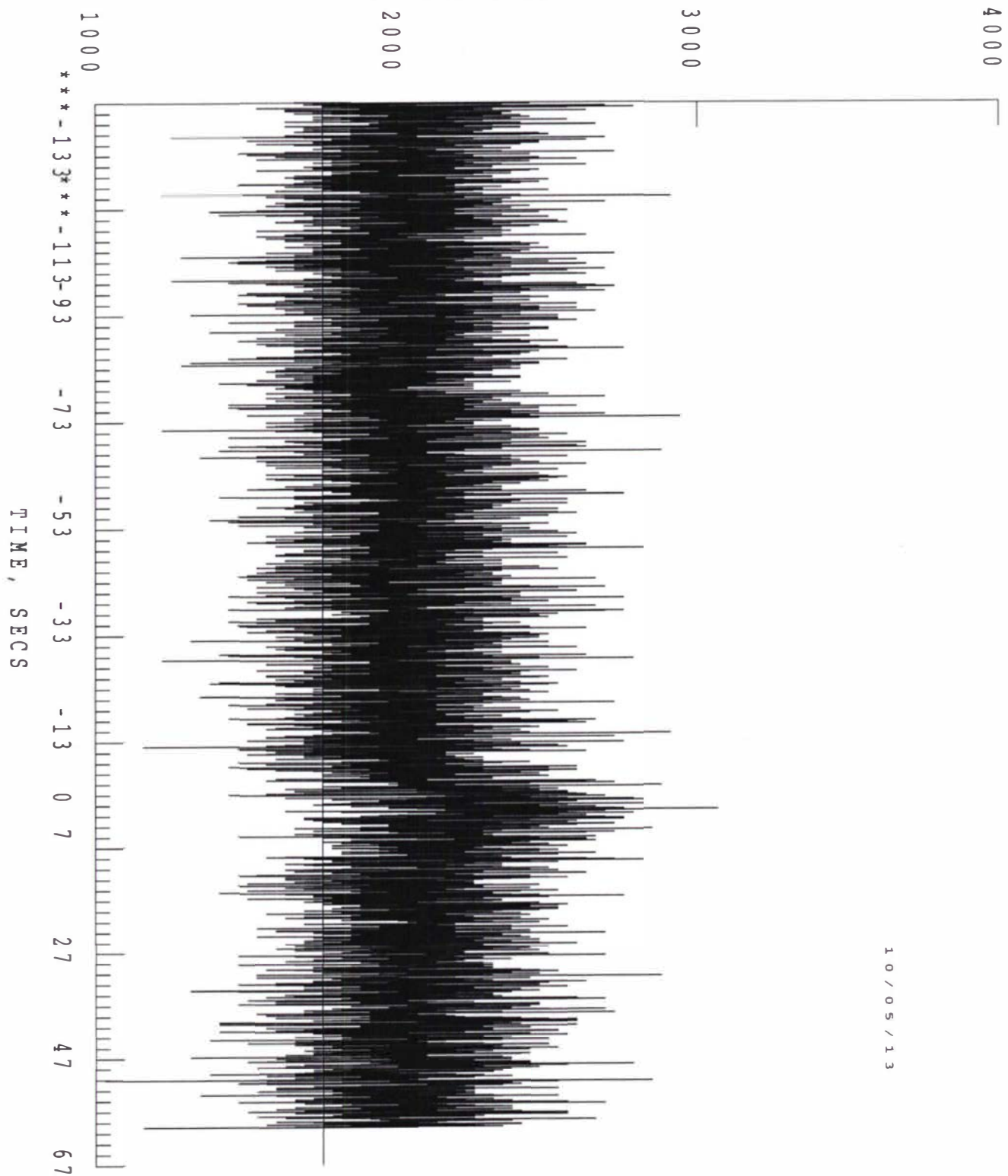
20:08:43

ED

26 - 293 keV

133.86 -11.51 8.8

COUNTS/0.032 S



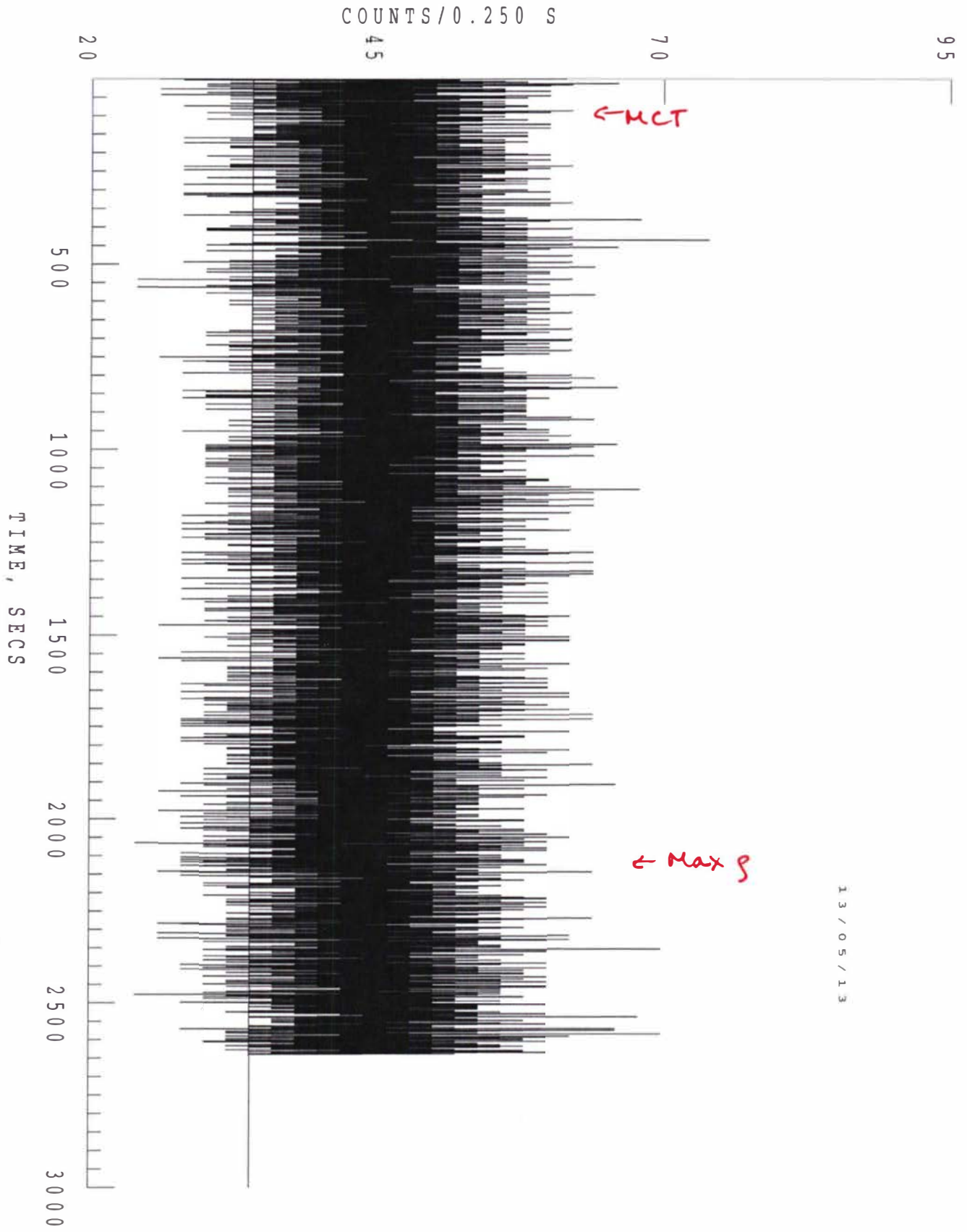
MS01

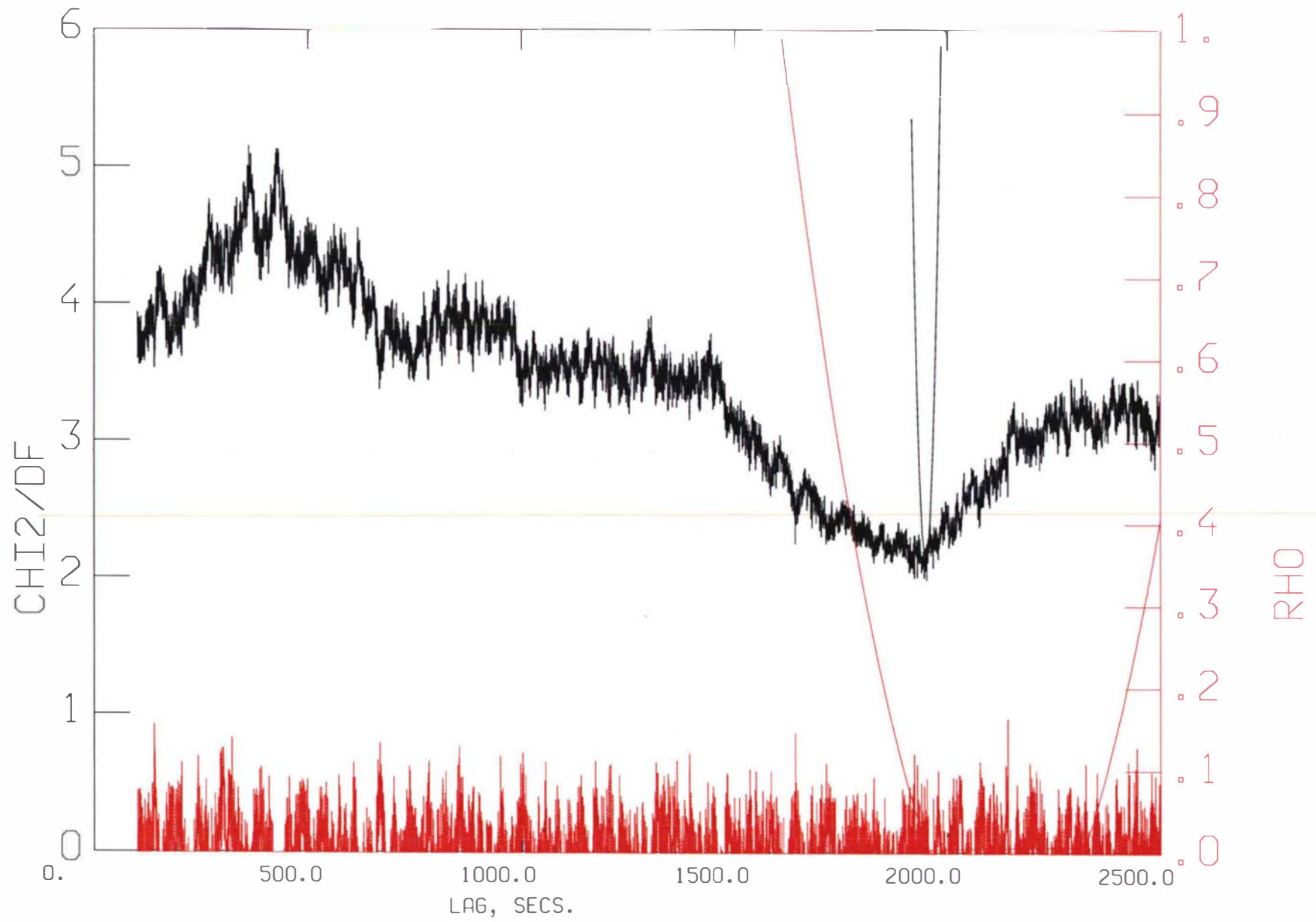
09/05/13

71197.264

D E

50 - 3000 keV





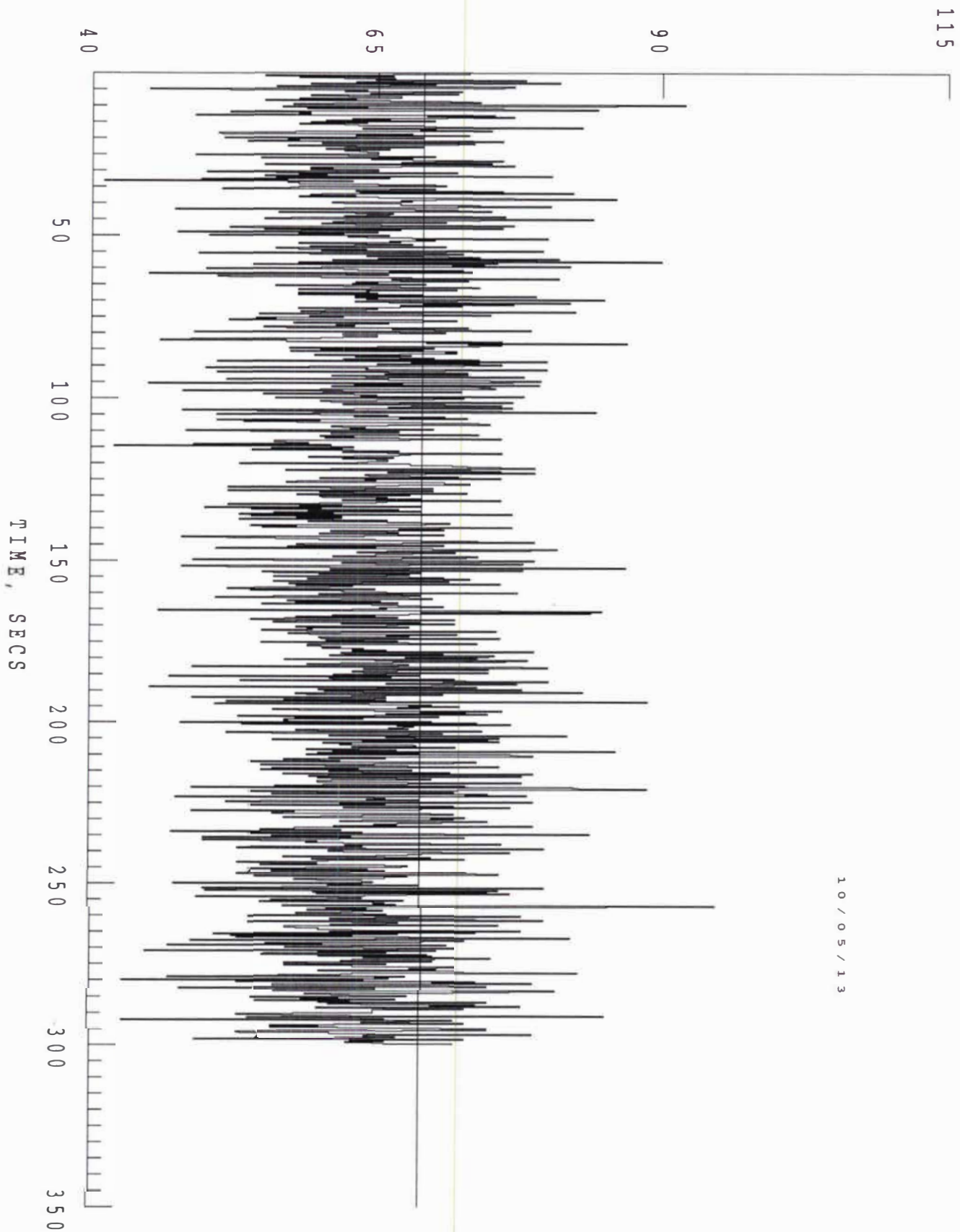
HESSI

09/05/13 72373.000 (GLAST_20130509_72523)

D *q*

25- 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 130509_2008

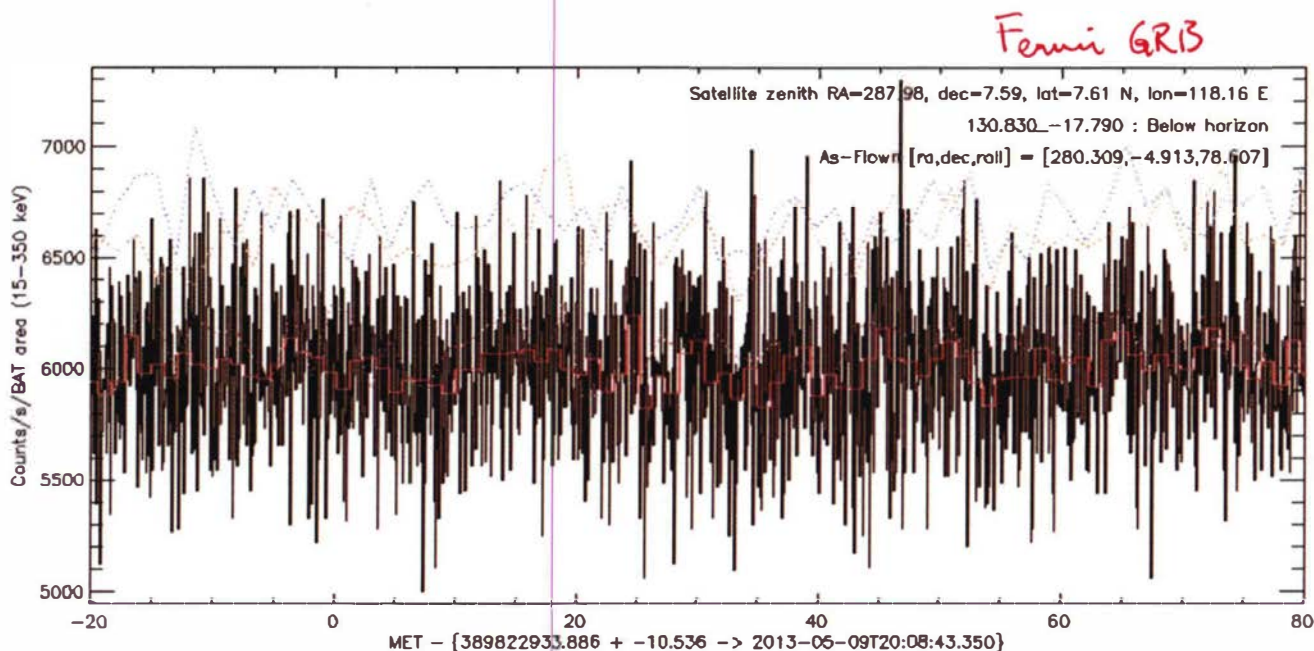
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/9/2013 9:00 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130509_2008.png



```
% /usr/local/bin/swinfo -o 389822933.886 -s 130.830_-17.790
Time(MET + UTCF -> UT): 389822933.886 + -10.536 -> 2013-05-09T20:08:43.350
YYMMDD_SOD: 130509_72523.350 DOY=129
Swift Zenith(RA,dec): 287.98, 7.59
Swift Location(lon,lat,alt): 118.16 E, 7.61 N, 569 km
Obs Sequence Number: 00031863042
Obs Target Name: 1E 1841-045
Obs Date and Times: 2013-05-09 19:51:51 - 20:18:49
Obs Pointing(ra,dec,roll): 280.309, -4.913, 78.61
130.830_-17.790_imageloc (boresight_dist, angle): (142, 64)
130.830_-17.790_exposure (cm^2 cos adjusted): 0
130.830_-17.790_altitude: -42 (down)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

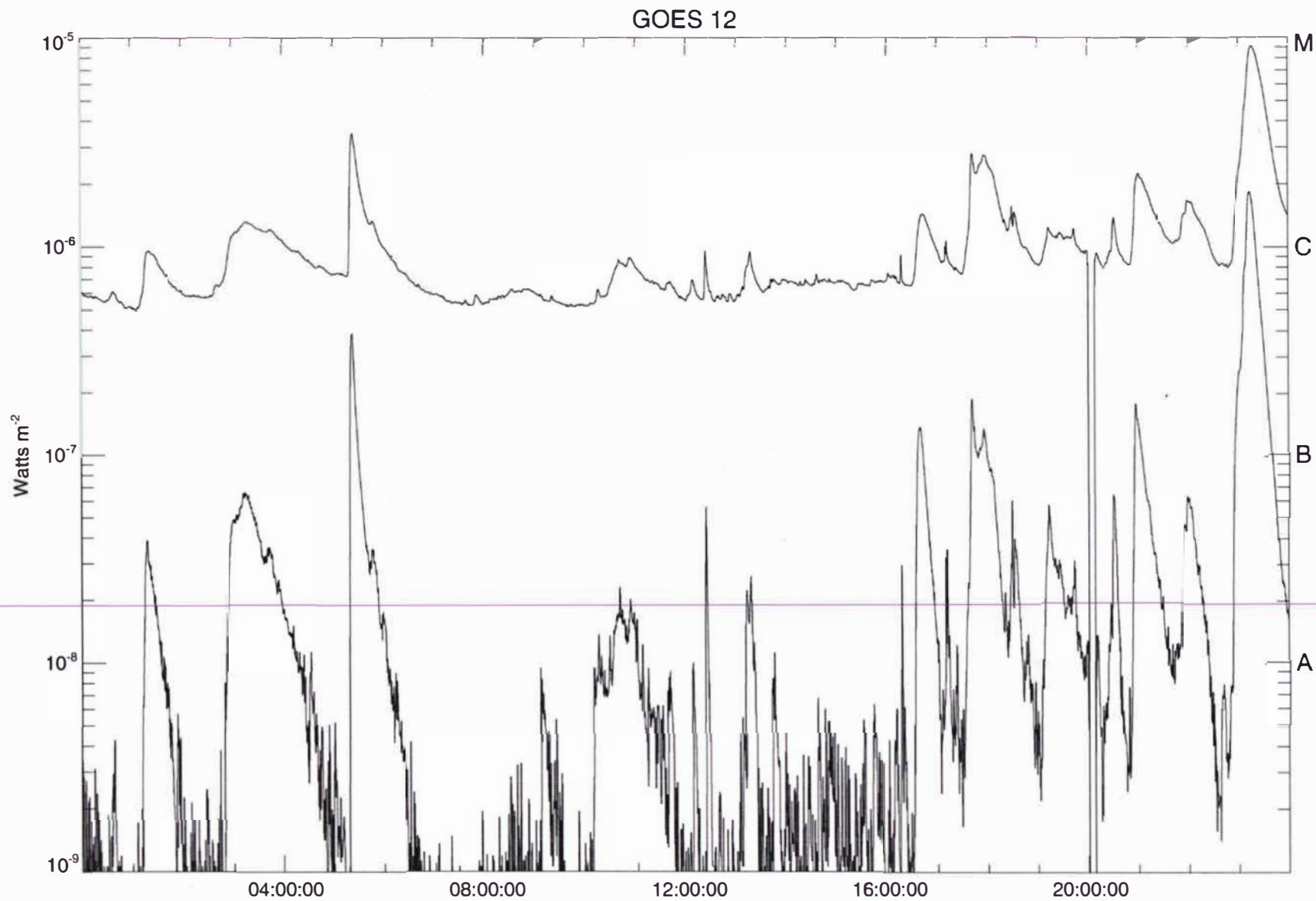
Attachments:

/tmp/130509_2008.png

19.7 KB

/tmp/130509_2008_bat64ms_ipn

87.0 KB



Data Start: 13/05/09, 0000:13

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 13/05/12, 0830

Sample average = 10

Subject: [Ipn] BAT lightcurve for trigger at 130510_0058

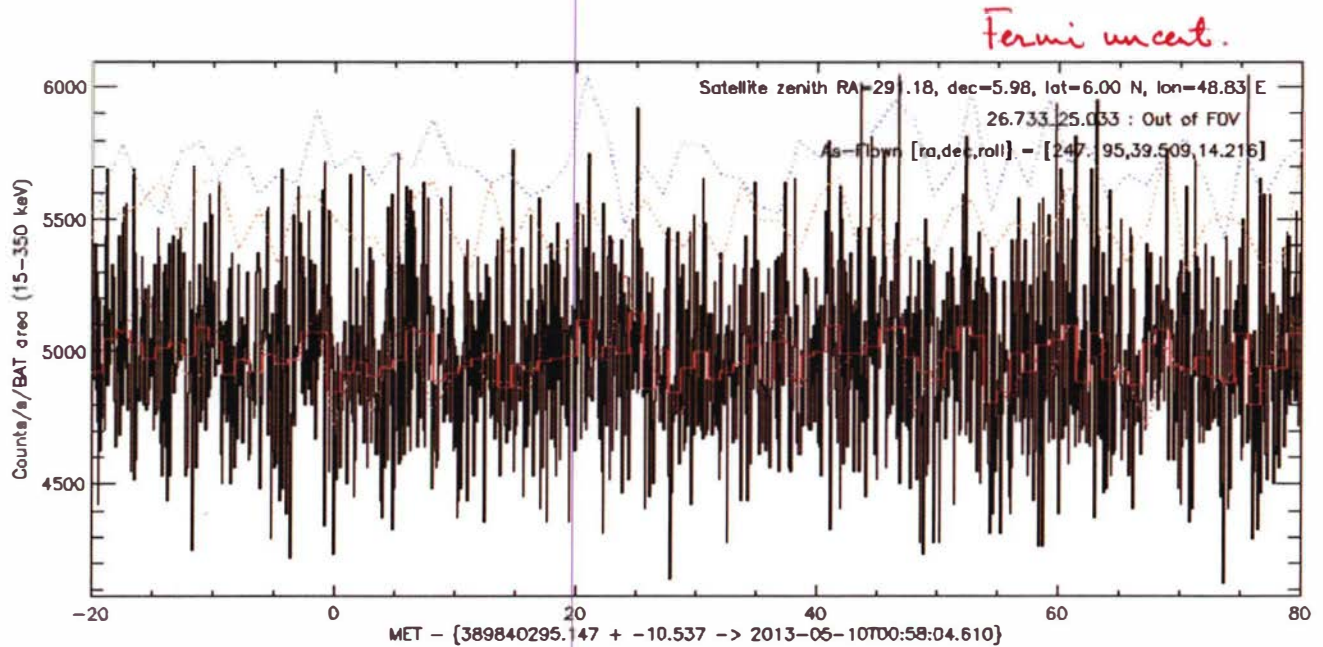
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/9/2013 10:01 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130510_0058.png



```
% /usr/local/bin/swinfo -o 389840295.147 -s 26.733_25.033
Time(MET + UTCF -> UT): 389840295.147 + -10.537 -> 2013-05-10T00:58:04.610
YYMMDD_SOD: 130510_03484.610 DOY=130
Swift Zenith(RA,dec): 291.18, 5.98
Swift Location(lon,lat,alt): 48.83 E, 6.00 N, 570 km
Obs Sequence Number: 00059115001
Obs Target Name: Abell 2199
Obs Date and Times: 2013-05-10 00:52:51 - 01:06:49
Obs Pointing(ra,dec,roll): 247.195, 39.509, 14.22
26.733_25.033_imageloc (boresight_dist, angle): (105, -67)
26.733_25.033_exposure (cm^2 cos adjusted): 0
26.733_25.033_altitude: 21 (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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130510_0058_bat64ms_ipn

87.0 KB

/tmp/130510_0058.png

21.0 KB

GLAST

10/05/13

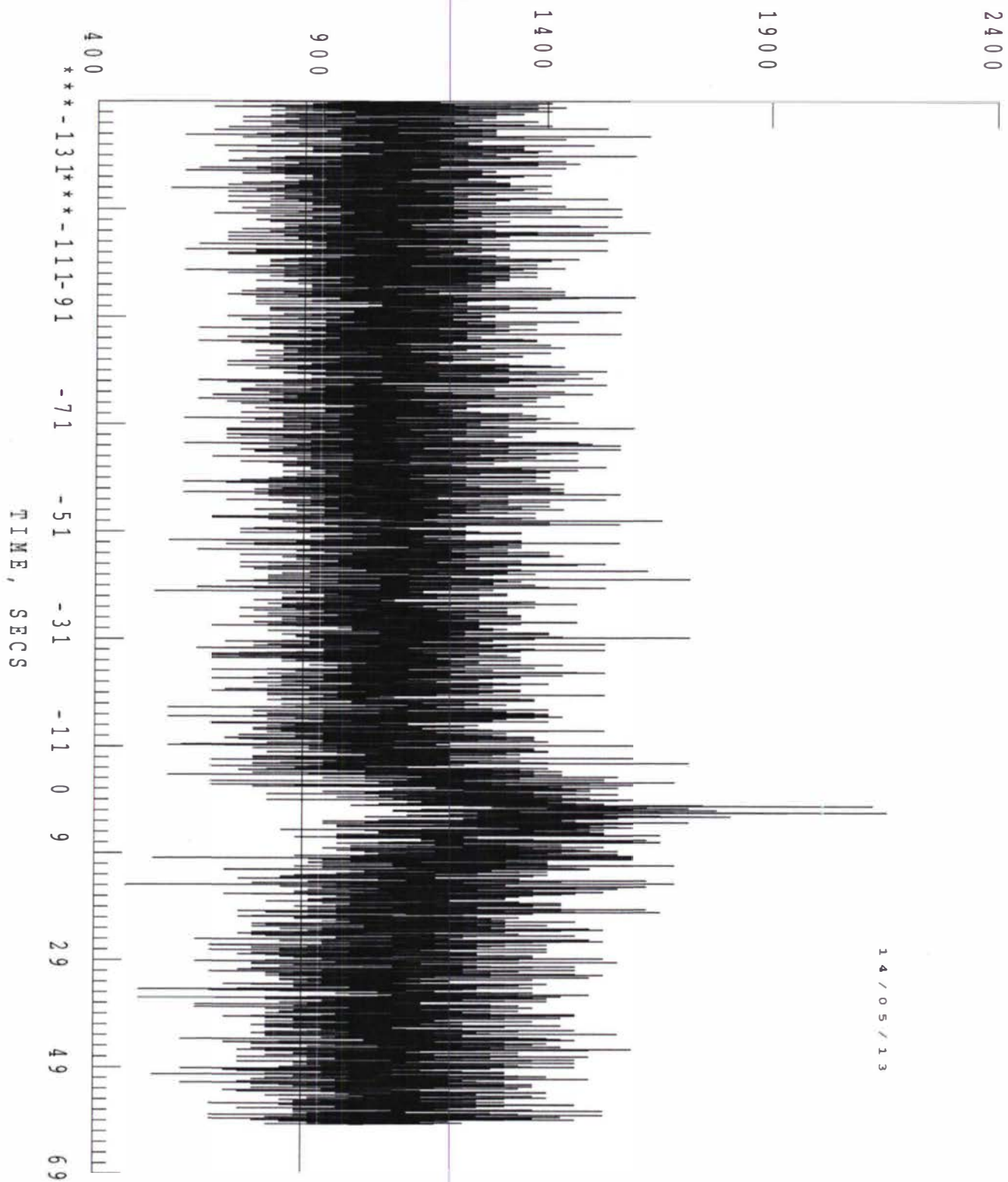
75802.382

21:03:22

26 - 293 keV

105.71 -9.87 4.98

COUNTS/0.032 S



From vxw@capella2.gsfc.nasa.gov Fri May 10 16:38:30 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Fri, 10 May 2013 19:38:28 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/FERMI_GBM_FINAL_POSITION
X-Barracuda-BRTS-Status: 1

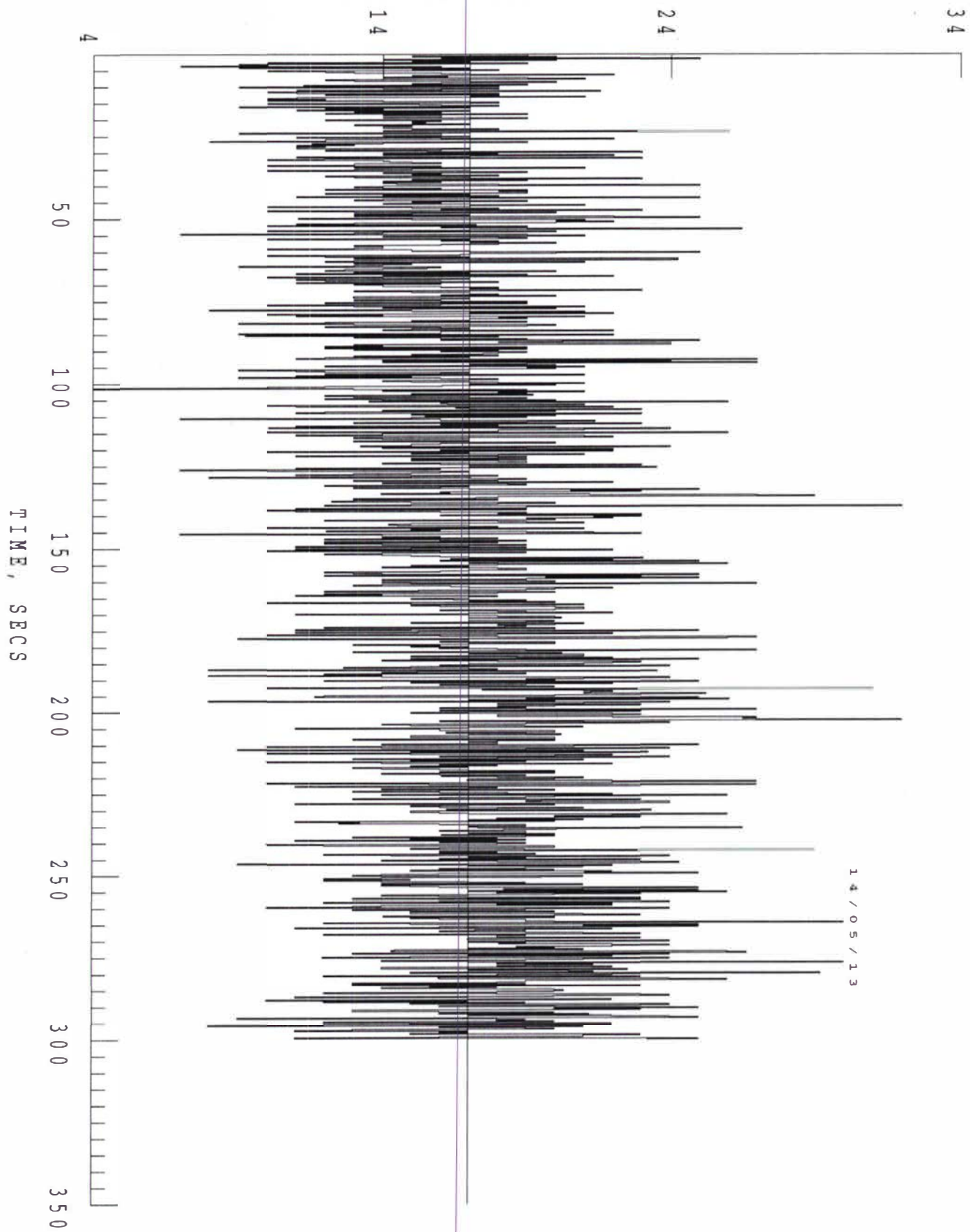
TITLE: GCN/FERMI NOTICE
NOTICE_DATE: Fri 10 May 13 23:38:27 UT
NOTICE_TYPE: Fermi-GBM Final Position
RECORD_NUM: 0
TRIGGER_NUM: 389912605
GRB_RA: 105.710d {+07h 02m 50s} (J2000),
105.869d {+07h 03m 28s} (current),
105.116d {+07h 00m 28s} (1950)
GRB_DEC: -9.870d {-09d 52' 11"} (J2000),
-9.890d {-09d 53' 23"} (current),
-9.796d {-09d 47' 44"} (1950)
GRB_ERROR: 4.98 [deg radius, statistical only]
GRB_DATE: 16422 TJD; 130 DOY; 13/05/10
GRB_TIME: 75802.38 SOD {21:03:22.38} UT
GRB_PHI: 298.99 [deg]
GRB_THETA: 62.19 [deg]
E_RANGE: 50.000 - 300.000 [keV]
LOC_ALGORITHM: 414 (Gnd S/W Version number)
SUN_POSTN: 48.02d {+03h 12m 05s} +17.86d {+17d 51' 45"}
SUN_DIST: 63.49 [deg] Sun_angle= -3.9 [hr] (East of Sun)
MOON_POSTN: 59.17d {+03h 56m 42s} +19.00d {+19d 00' 18"}
MOON_DIST: 54.34 [deg]
MOON_ILLUM: 1 [%]
GAL_COORDS: 223.01, -1.98 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 108.40, -32.31 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: Fermi-GBM Final Position.
COMMENTS: This Notice was ground-generated -- not flight-generated.

HESSI

10/05/13 75652.000 (GLAST_20130510_75802)

25- 150 keV

COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 130510_2103

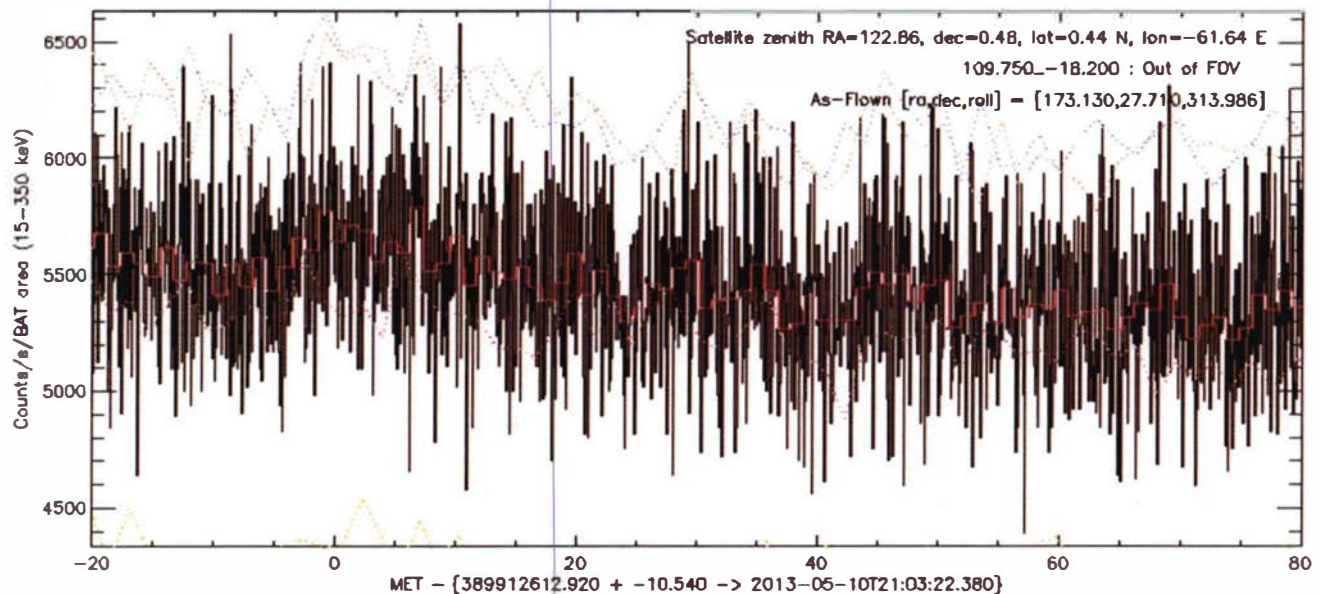
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/10/2013 9:07 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130510_2103.png



```
% /usr/local/bin/swinfo -o 389912612.920 -s 109.750_-18.200
Time(MET + UTCF -> UT): 389912612.920 + -10.540 -> 2013-05-10T21:03:22.380
YYMMDD_SOD: 130510_75802.380 DOY=130
Swift Zenith(RA,dec): 122.86, 0.48
Swift Location(lon,lat,alt): -61.64 E, 0.44 N, 580 km
Obs Sequence Number: 00554620045
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-10 20:57:51 - 21:15:49
Obs Pointing(ra,dec,roll): 173.130, 27.710, 313.99
109.750_-18.200_imageloc (boresight_dist, angle): (77, -163)
109.750_-18.200_exposure (cm^2 cos adjusted): 0
109.750_-18.200_altitude: 91 (up)
```

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

lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130510_2103.png

19.9 KB

/tmp/130510_2103_bat64ms_ipn

87.0 KB

MS01

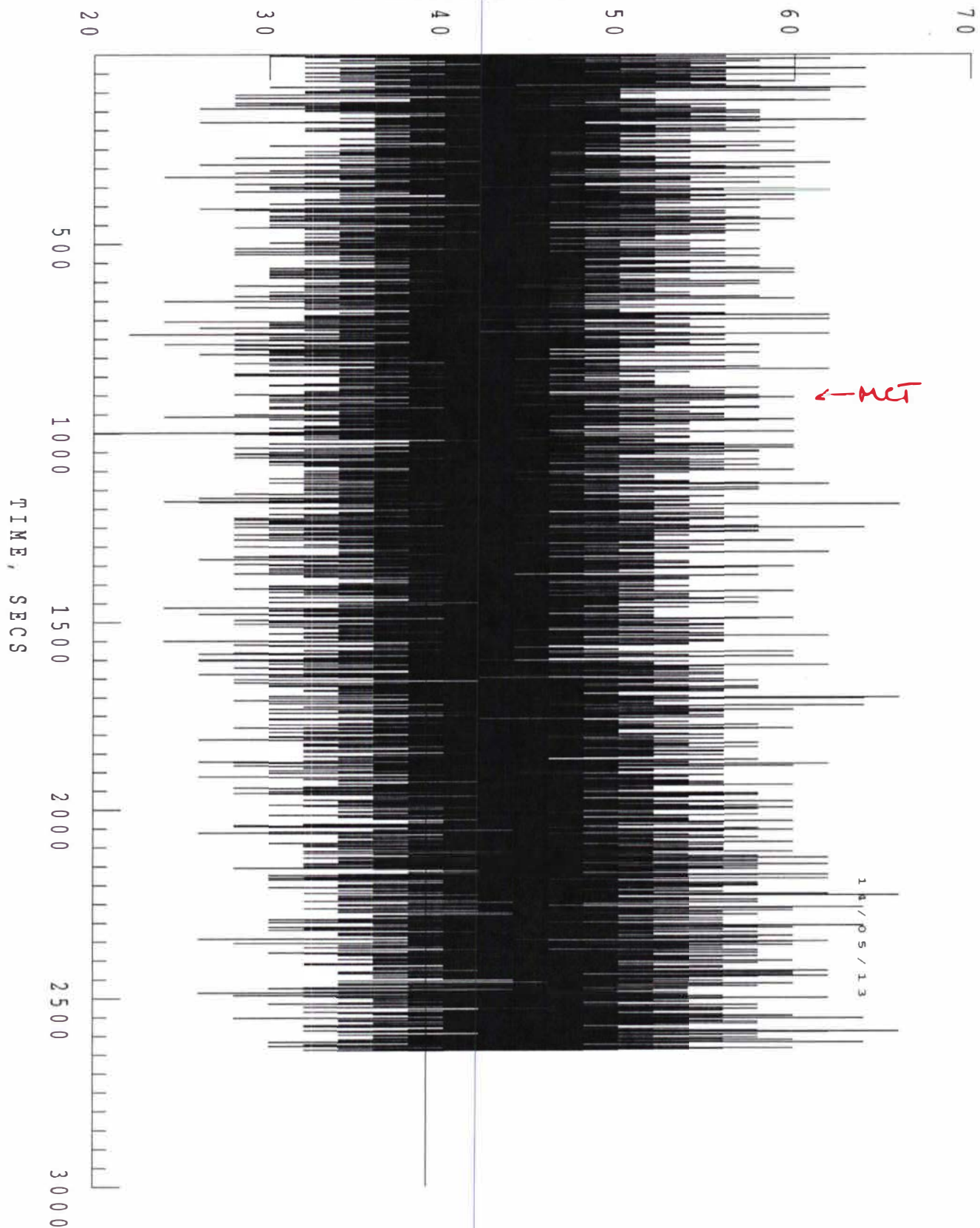
10/05/13

74435.784

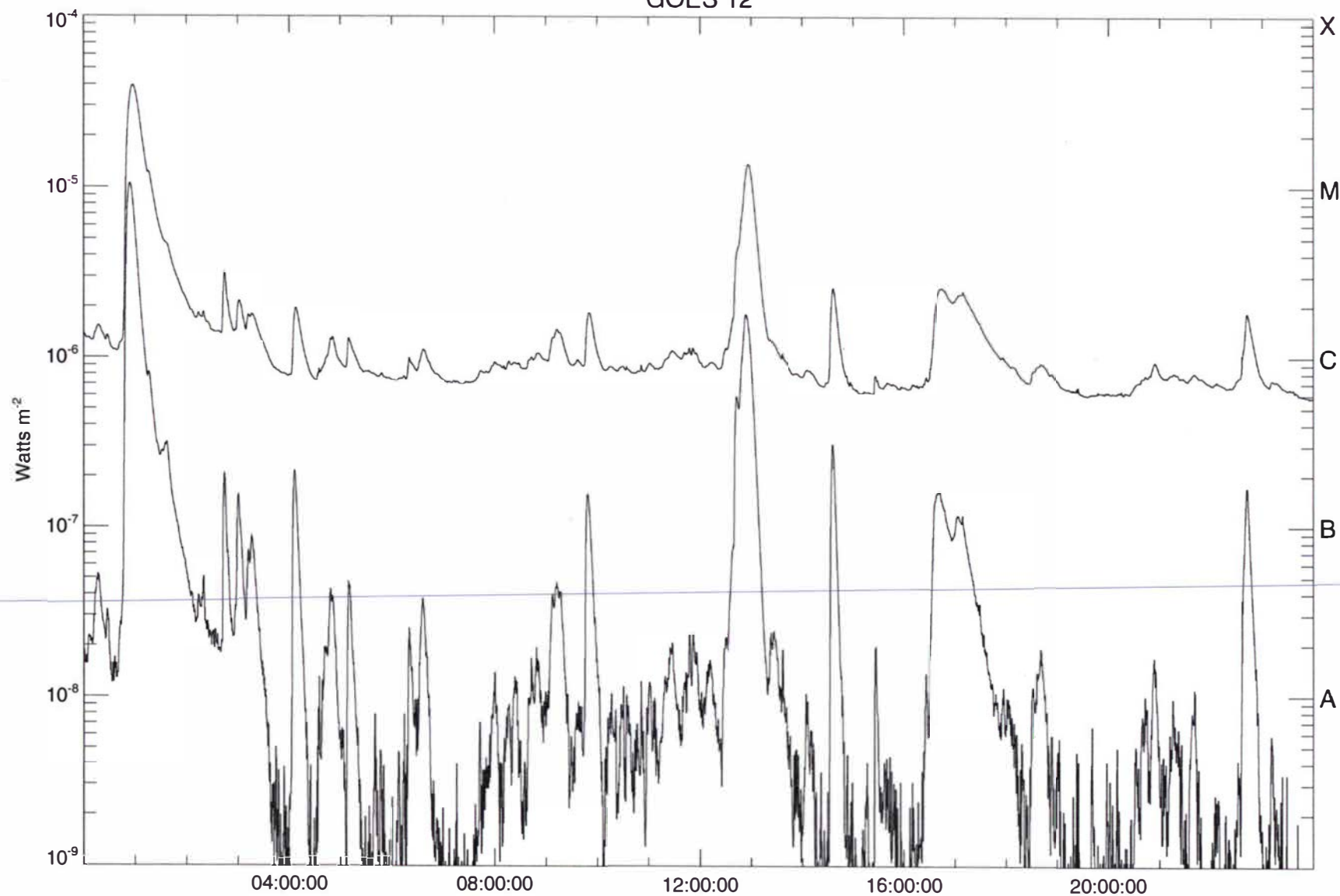
50 - 3000 keV

Occulted

COUNTS/0.250 S



GOES 12



Data Start: 13/05/10, 0000:13

Plot created: 13/05/13, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

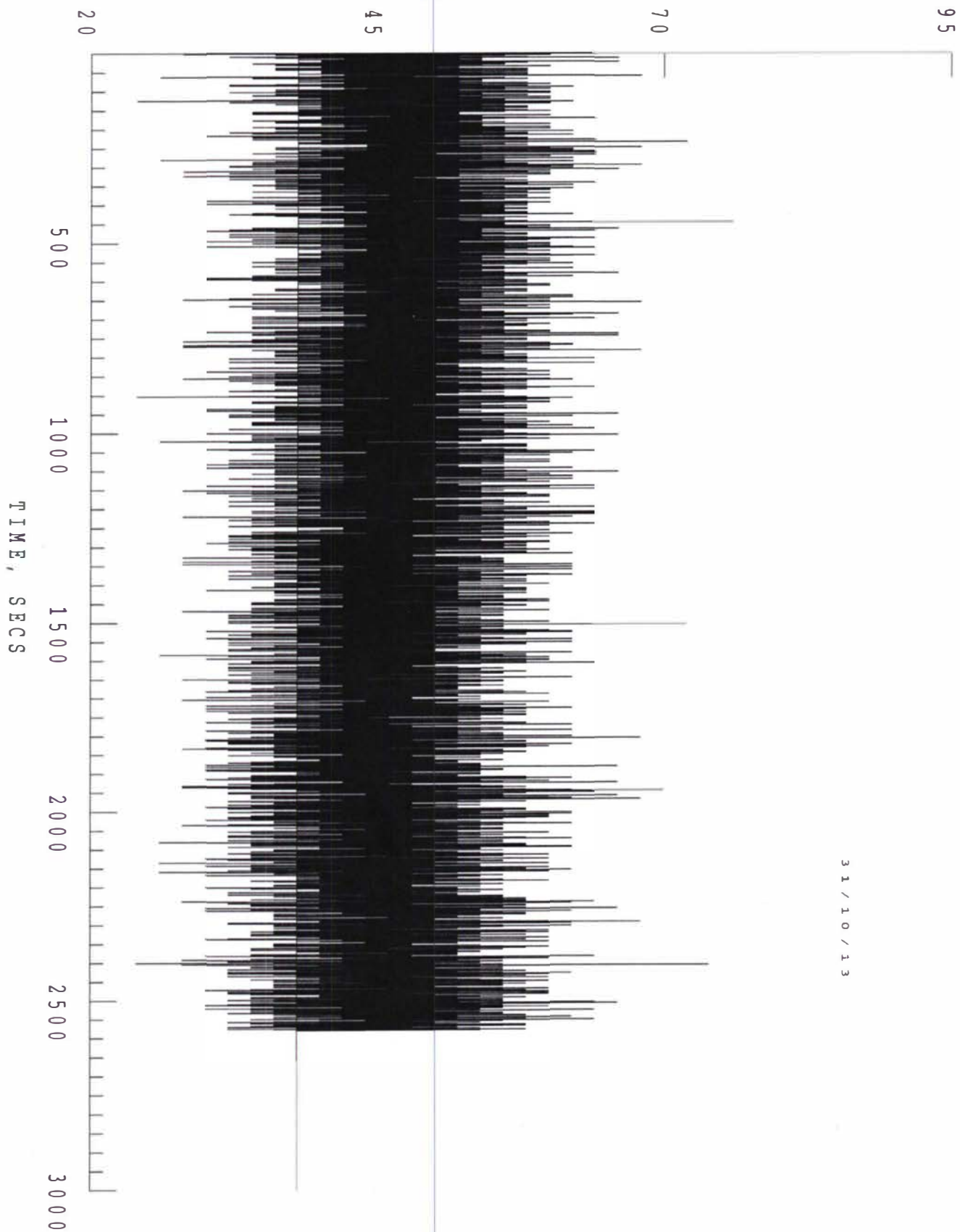
MS01

11/05/13

12335.373

50 - 3000 keV

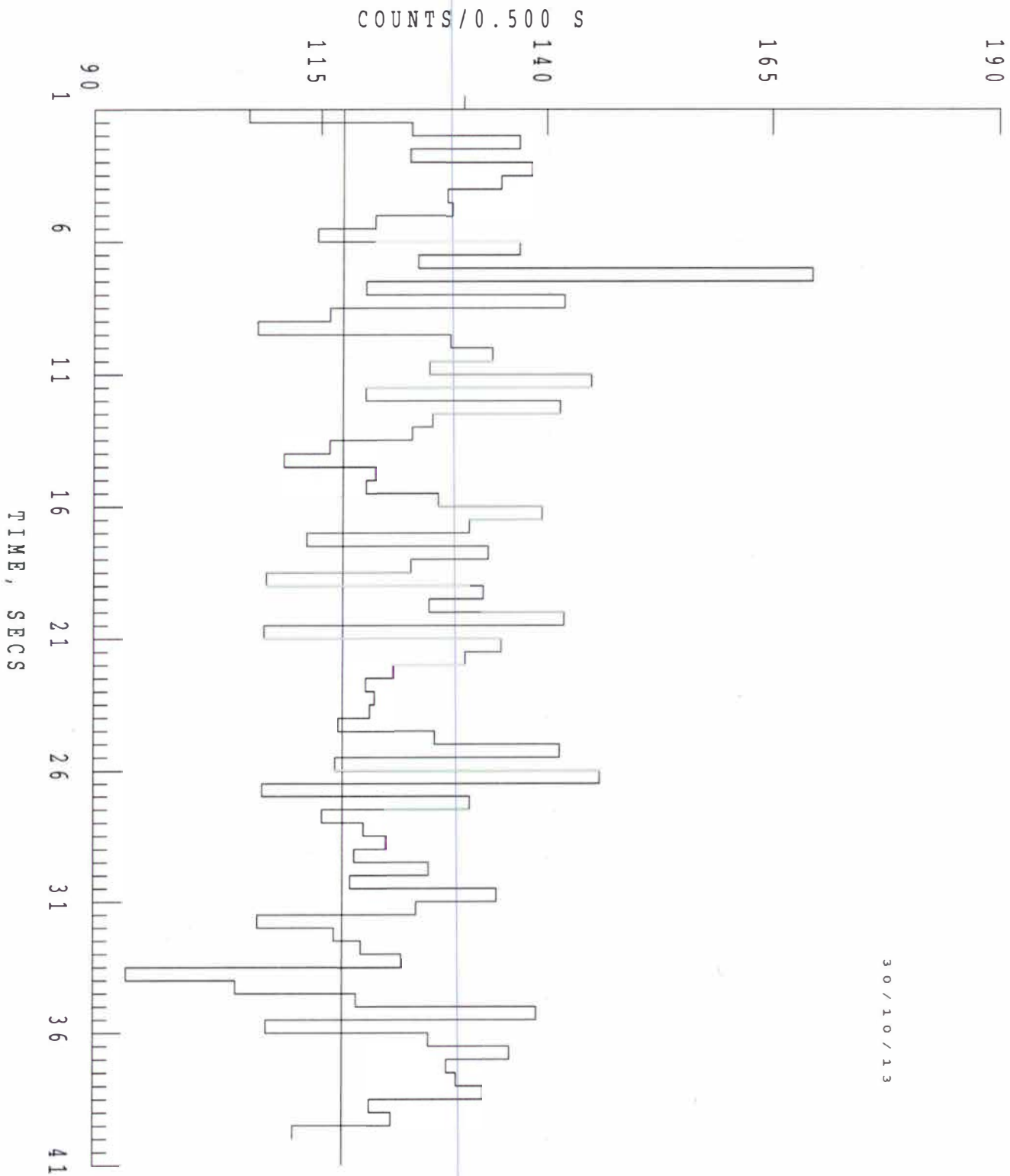
COUNTS/0.250 S



HESSI

11/05/13 13625.000 (SUZAKU_20130511_13645)

25 - 150 keV



30/10/13

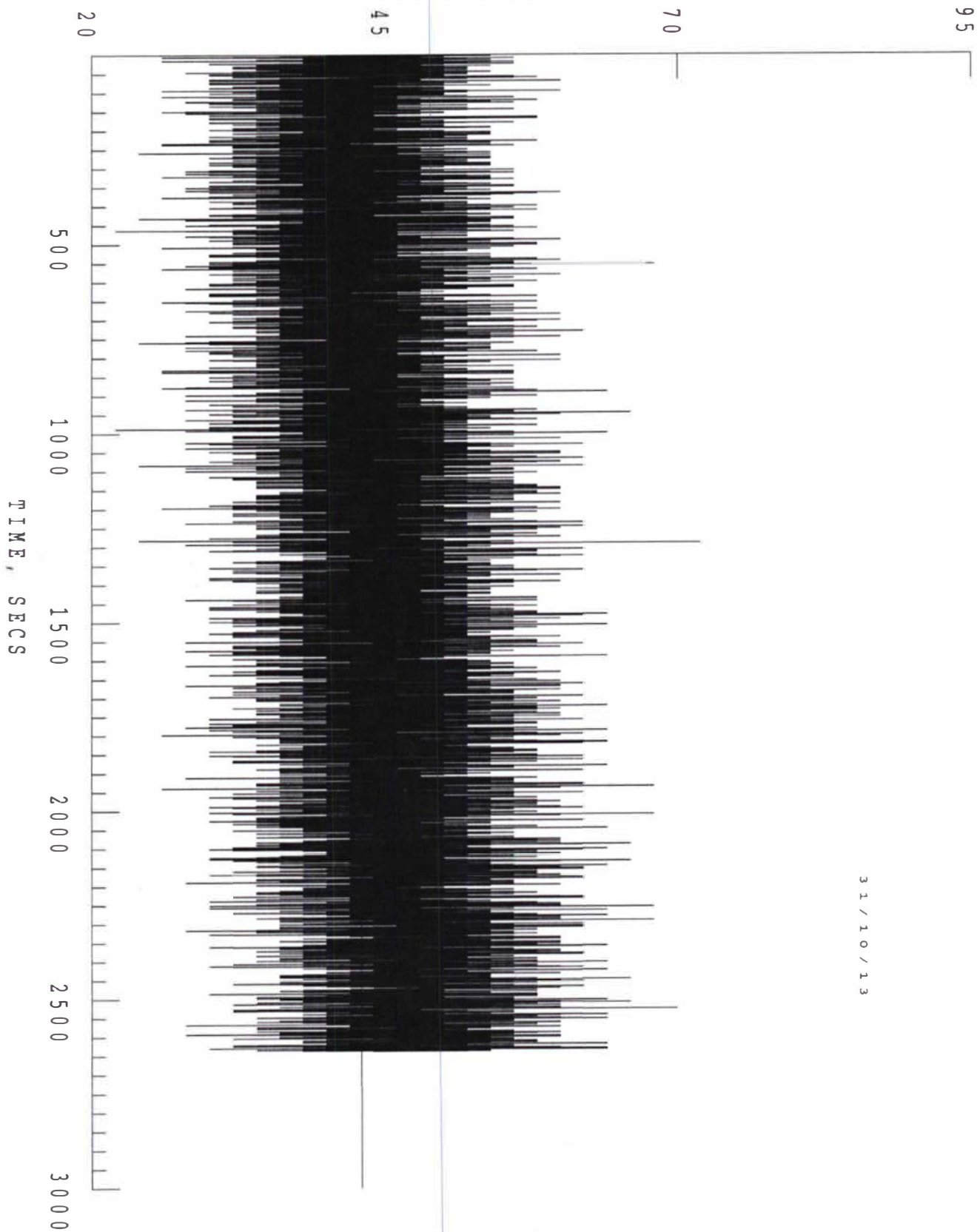
MS01

11/05/13

24275.174

50 - 3000 keV

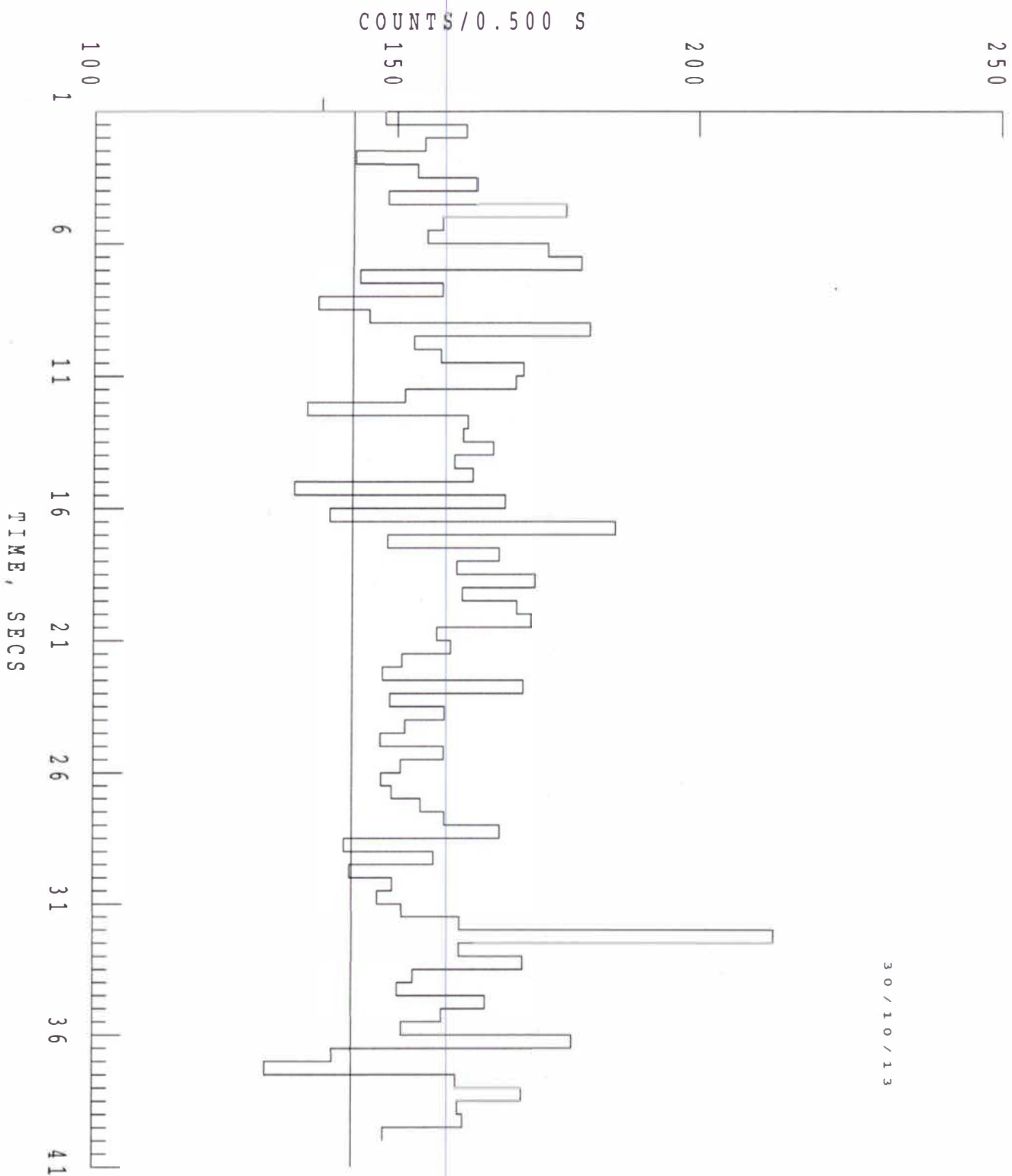
COUNTS/0.250 S



HESSI

11/05/13 25605.000 (SUZAKU_20130511_25625)

25- 150 keV



From vxw@capella2.gsfc.nasa.gov Sat May 11 04:34:50 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Sat, 11 May 2013 07:34:49 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Sat 11 May 13 11:34:45 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 555600, Seg Num: 0
GRB_RA: 196.639d {+13h 06m 33s} (J2000),
196.803d {+13h 07m 13s} (current),
196.025d {+13h 04m 06s} (1950)
GRB_DEC: +18.698d {+18d 41' 51"} (J2000),
+18.626d {+18d 37' 35"} (current),
+18.965d {+18d 57' 53"} (1950)
GRB_DATE: 16423 TJD; 131 DOY; 13/05/11
GRB_TIME: 41447.44 SOD {11:30:47.44} UT
TRIGGER_INDEX: 124
GRB_PHI: 64.35 [deg]
GRB_THETA: 23.37 [deg]
DELTA_TIME: -37.00 [sec]
TRIGGER_DUR: 0.512 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 17.02 [sigma]
MAGE_SIGNIF: 9.07 [sigma]
C_URL: sw00555600000msb.lc
SUN_POSTN: 48.51d {+03h 14m 02s} +17.99d {+17d 59' 23"}
SUN_DIST: 131.92 [deg] Sun_angle= -9.9 [hr] (East of Sun)
MOON_POSTN: 65.48d {+04h 21m 56s} +19.59d {+19d 35' 41"}
MOON_DIST: 118.84 [deg]
MOON_ILLUM: 2 [%]
GAL_COORDS: 326.13, 80.88 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS: 187.61, 23.70 [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 = 87.68,4.59 [deg].

5.4 s

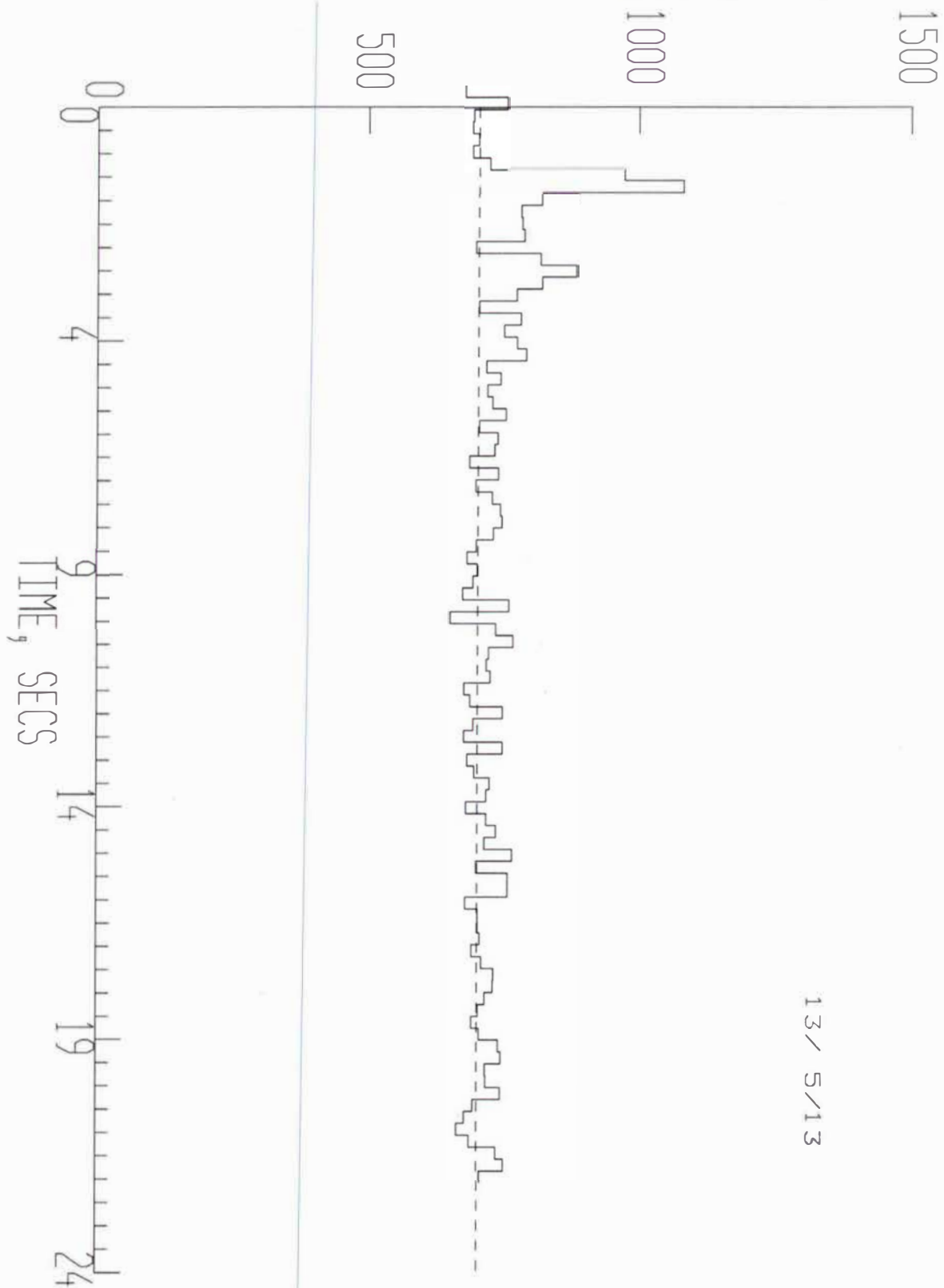
$2.2 \times 10^{-7} \text{ erg cm}^{-2}$

1.3 phot/cm²s

SWIFT 11/05/13 41447.442

25- 100 keV

COUNTS/0.256 S



13/ 5/13

MS01

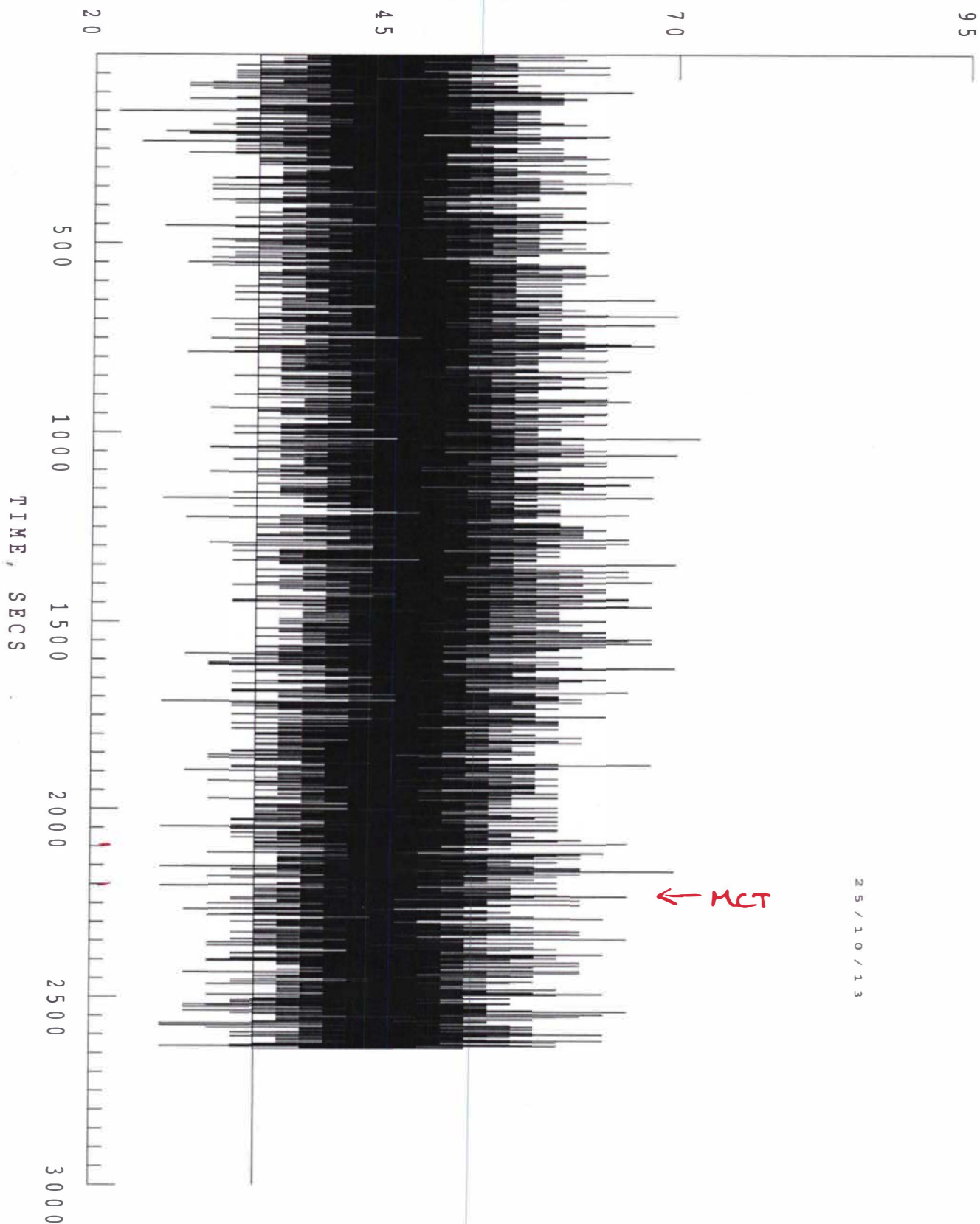
11/05/13

40114.912

50 - 3000 keV

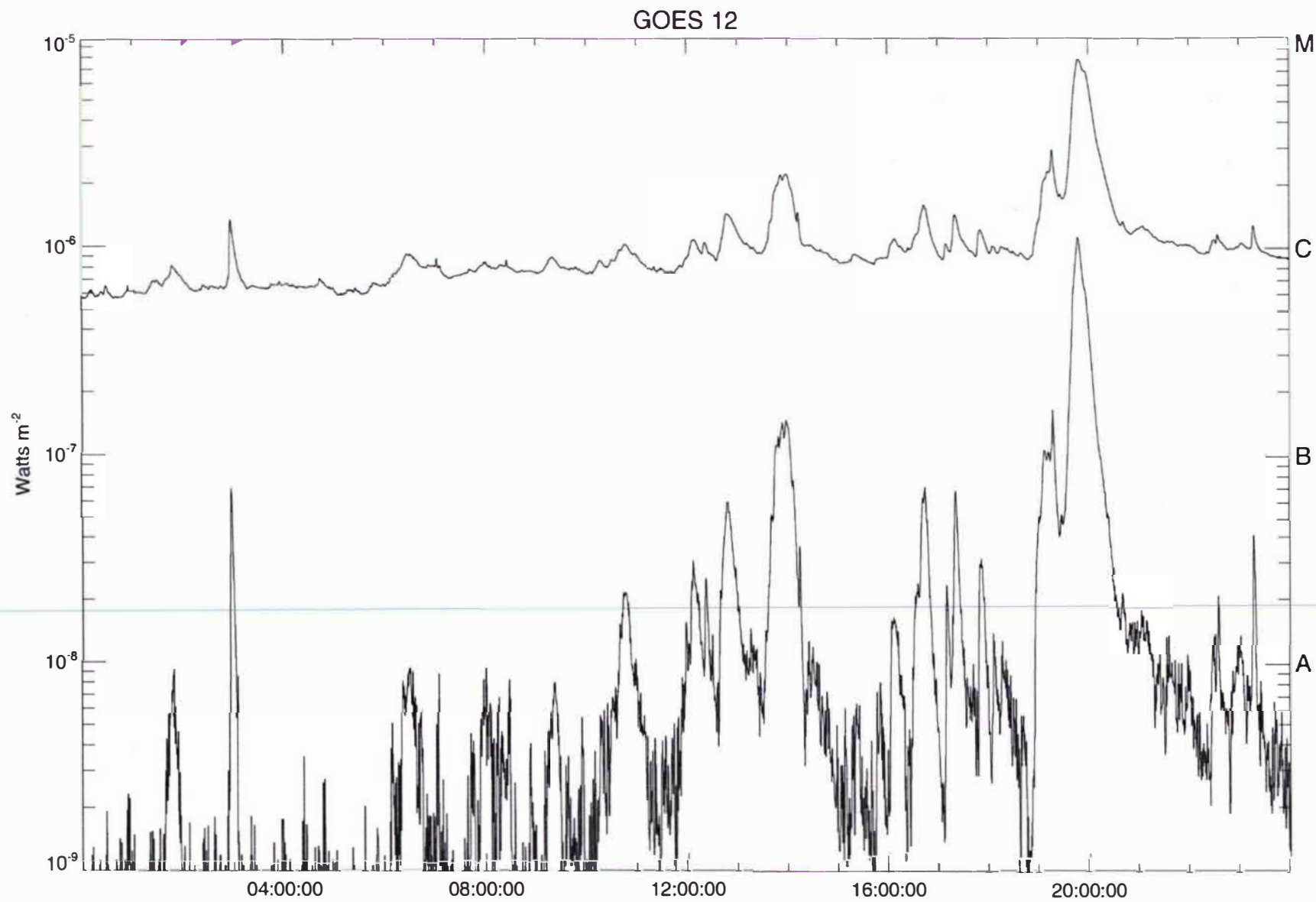
Occulted

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Mon May 13 02:27:14 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
v-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Mon, 13 May 2013 02:27:13 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SWIFT_20130511_41447
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 13-May-2013 02:25:57.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
No Eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry



Data Start: 13/05/11, 0000:11

Plot created: 13/05/14, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

SUZAKU

12/05/13

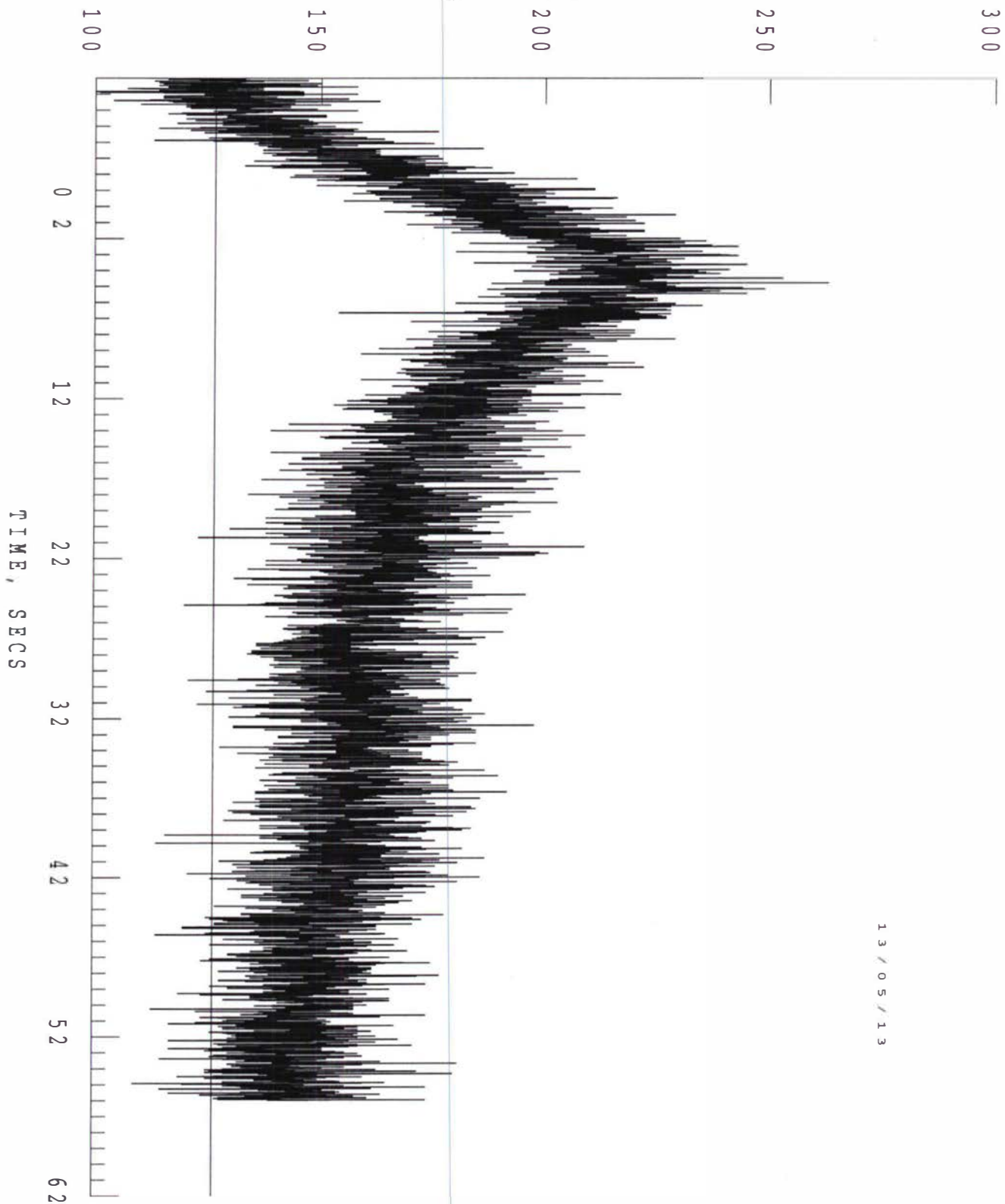
58205.723

16:10:05

50 - 240 keV

Prob. solar
Not in list

COUNTS/0.016 S



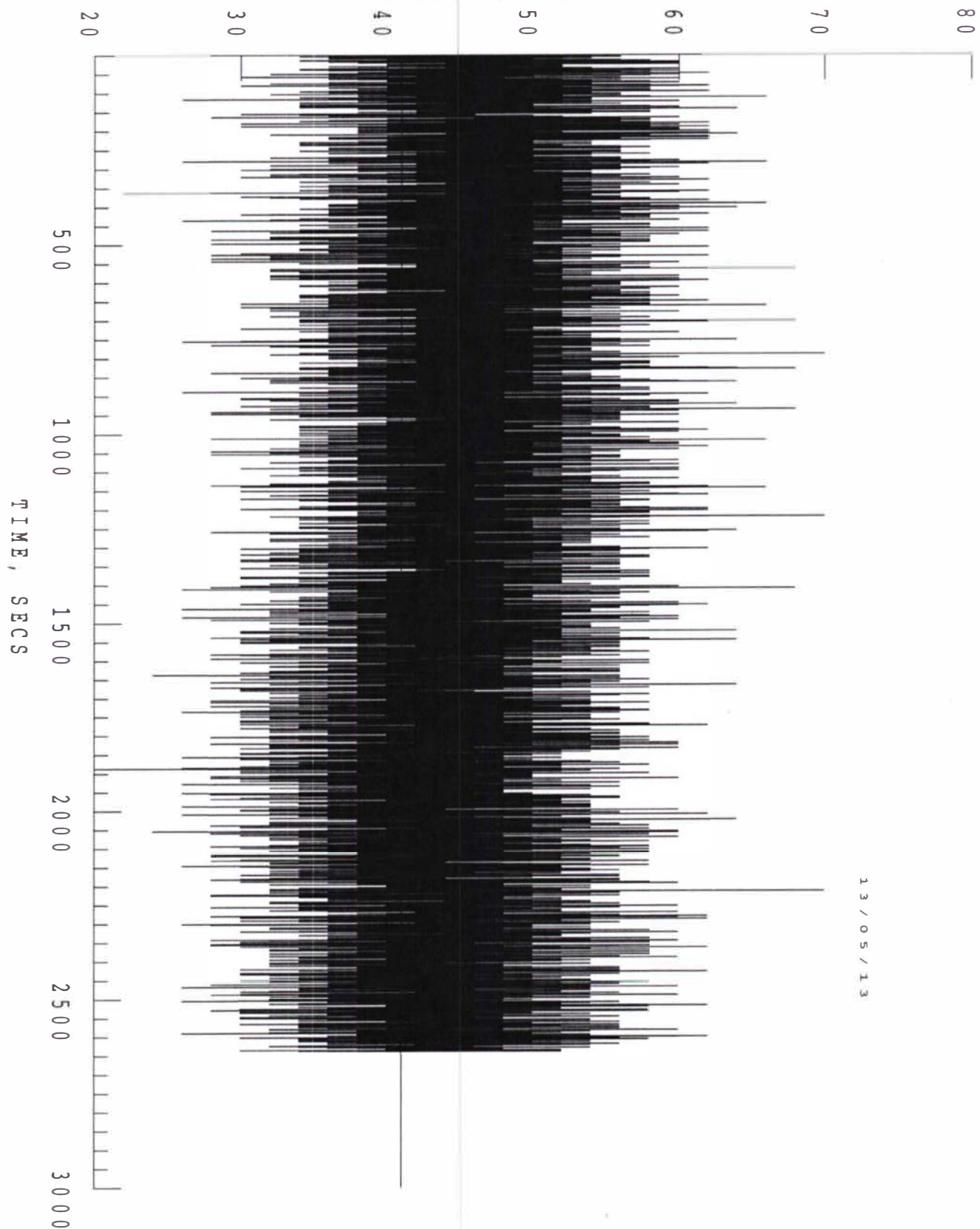
MS01

12/05/13

56853.201

50 - 3000 keV

COUNTS/0.250 S

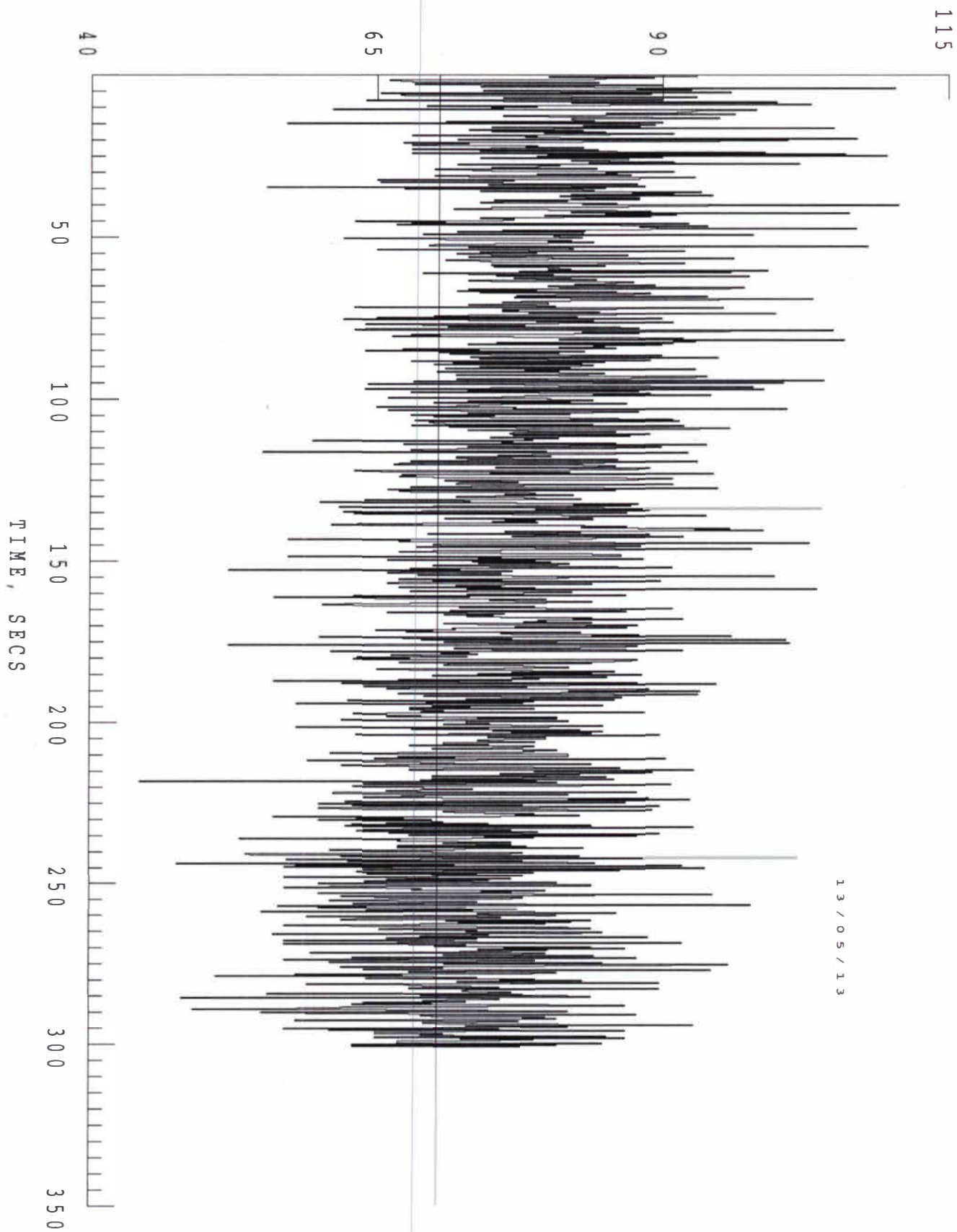


HESSI

12/05/13 58054.000 (SUZAKU_20130512_58205)

25- 150 keV

COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 130512_1610

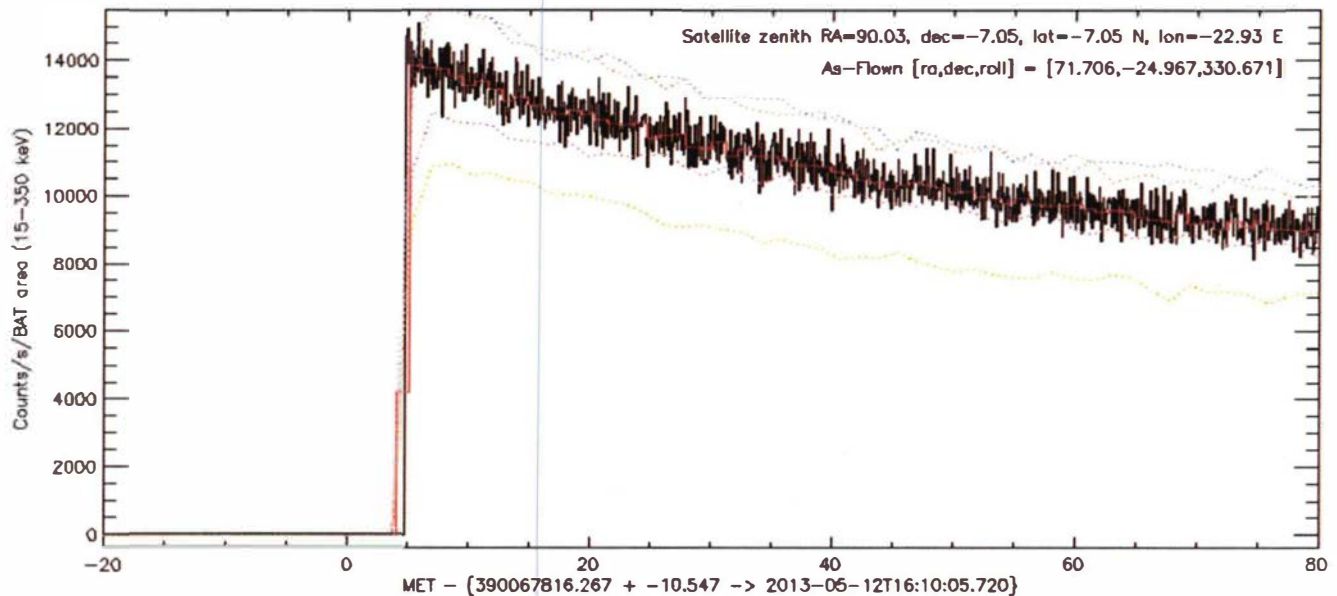
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/13/2013 11:22 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130512_1610.png



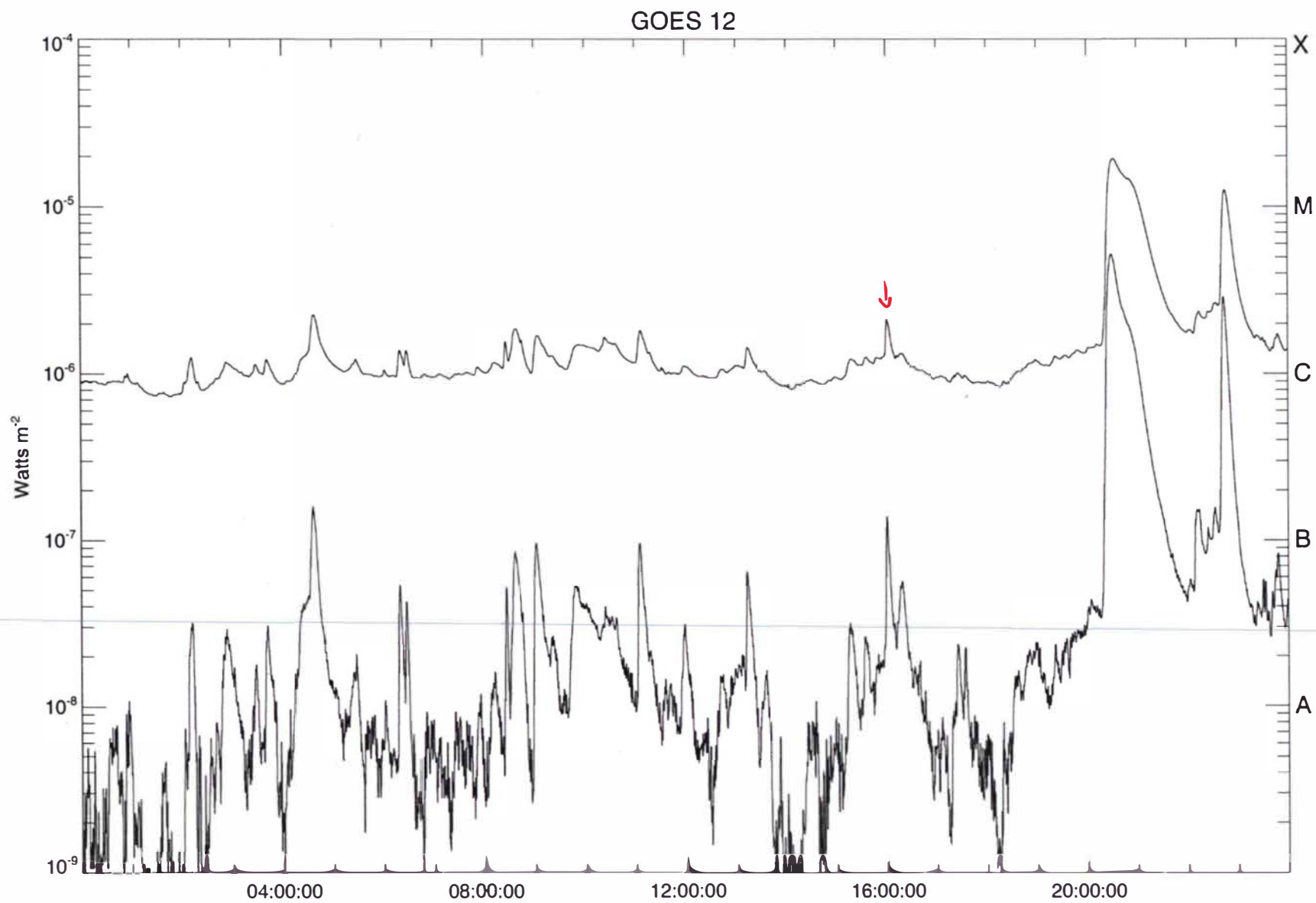
```
% /usr/local/bin/swinfo -o 390067816.267
Time(MET + UTCF -> UT): 390067816.267 + -10.547 -> 2013-05-12T16:10:05.720
YYMMDD_SOD: 130512_58205.720 DOY=132
Swift Zenith(RA,dec): 90.03, -7.05
Swift Location(lon,lat,alt): -22.93 E, -7.05 N, 586 km
Obs Sequence Number: 00074971036
Obs Target Name: saa-cold-132-06
Obs Date and Times: 2013-05-12 15:50:51 - 16:12:48
Obs Pointing(ra,dec,roll): 71.706, -24.967, 330.67
```

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

lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130512_1610_bat64ms_ipn	87.1 KB
/tmp/130512_1610.png	12.5 KB



Data Start: 13/05/12, 0000:11

Plot created: 13/05/15, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

13/05/13

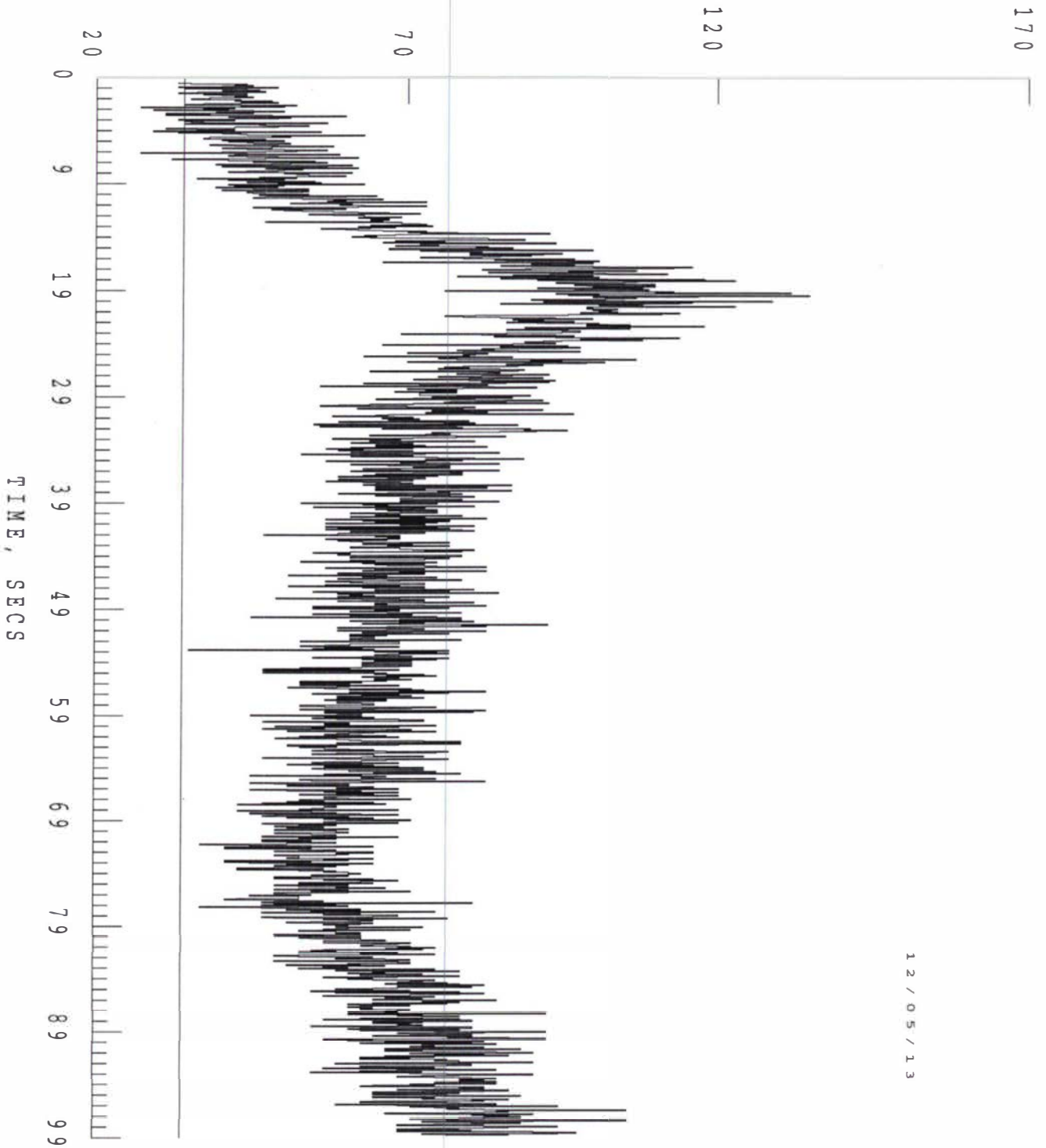
7696.811

A

50 - 200 keV

Solar

COUNTS/0.064 S



KONUS HRES 20130513 07696

TRIGGER TIME: 13/05/13 DOY 133 Julian 2456426.58907 UT = 02.138 02:08:16 (07696.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

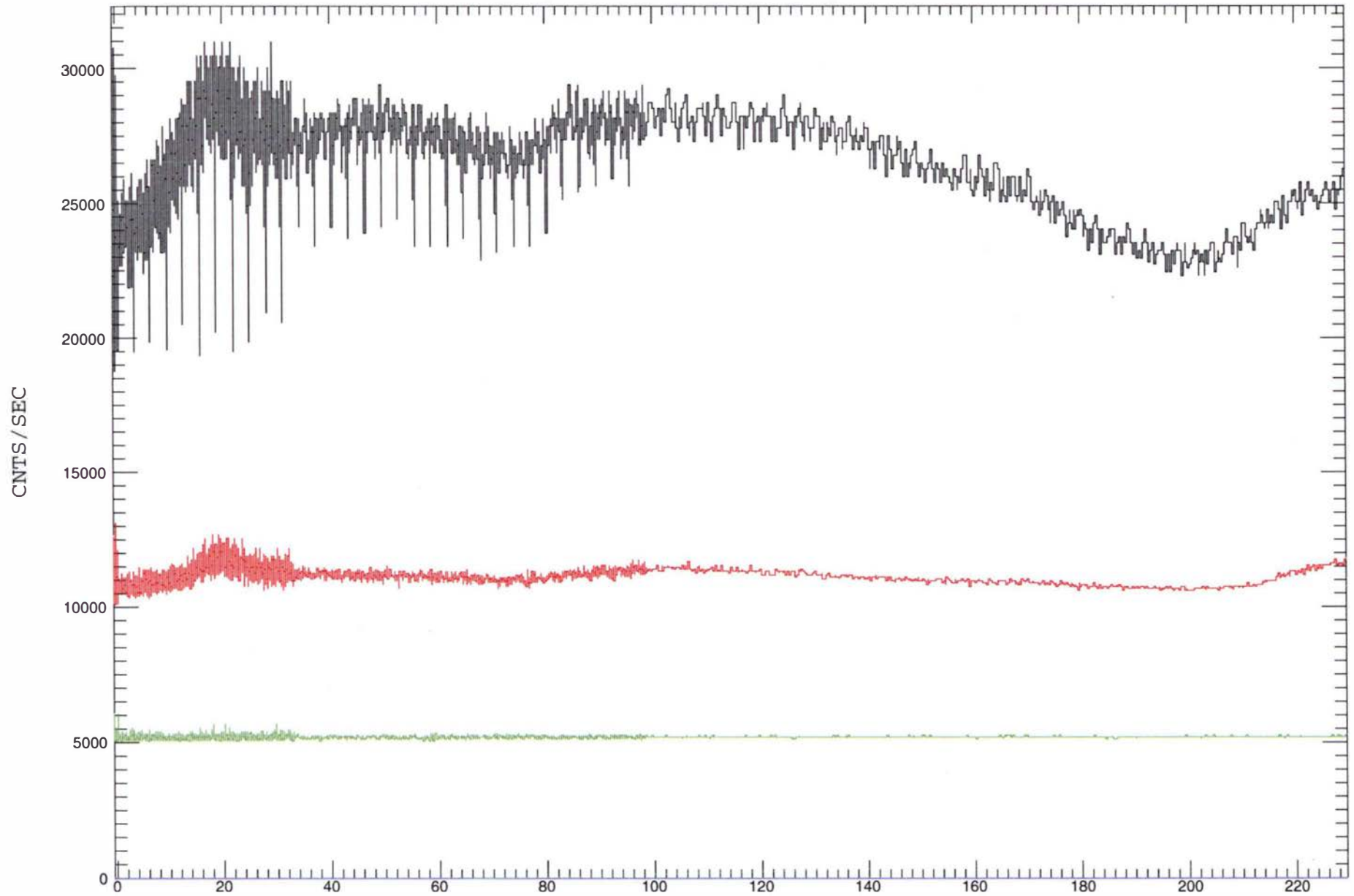
Chan 4 : [> 10 MeV]

Channel 1 + 15300

Channel 2 + 10200

Channel 3 + 5100

Channel 4 + 0



ONDS

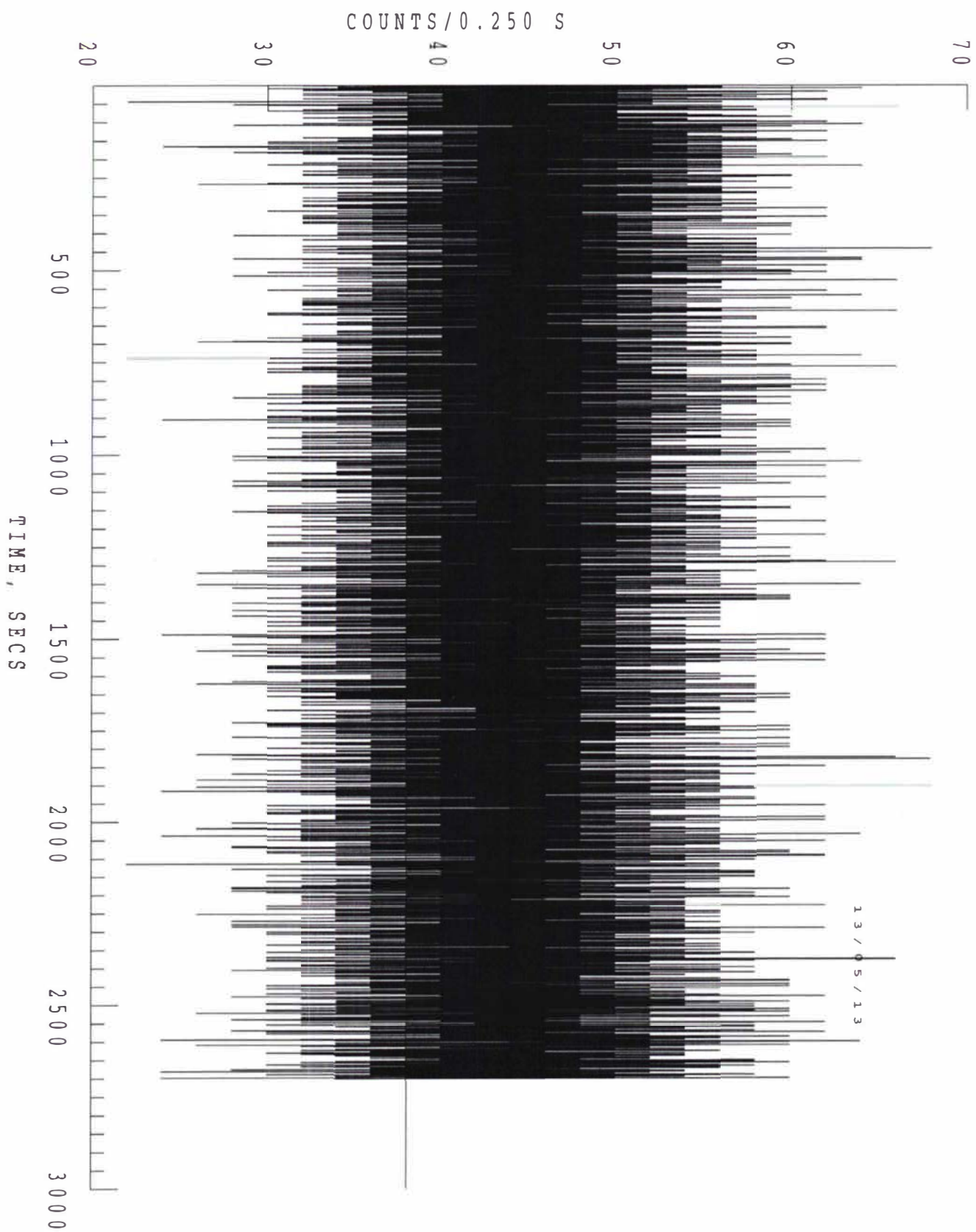
MS01

13/05/13

6332.605

A

50 - 3000 keV



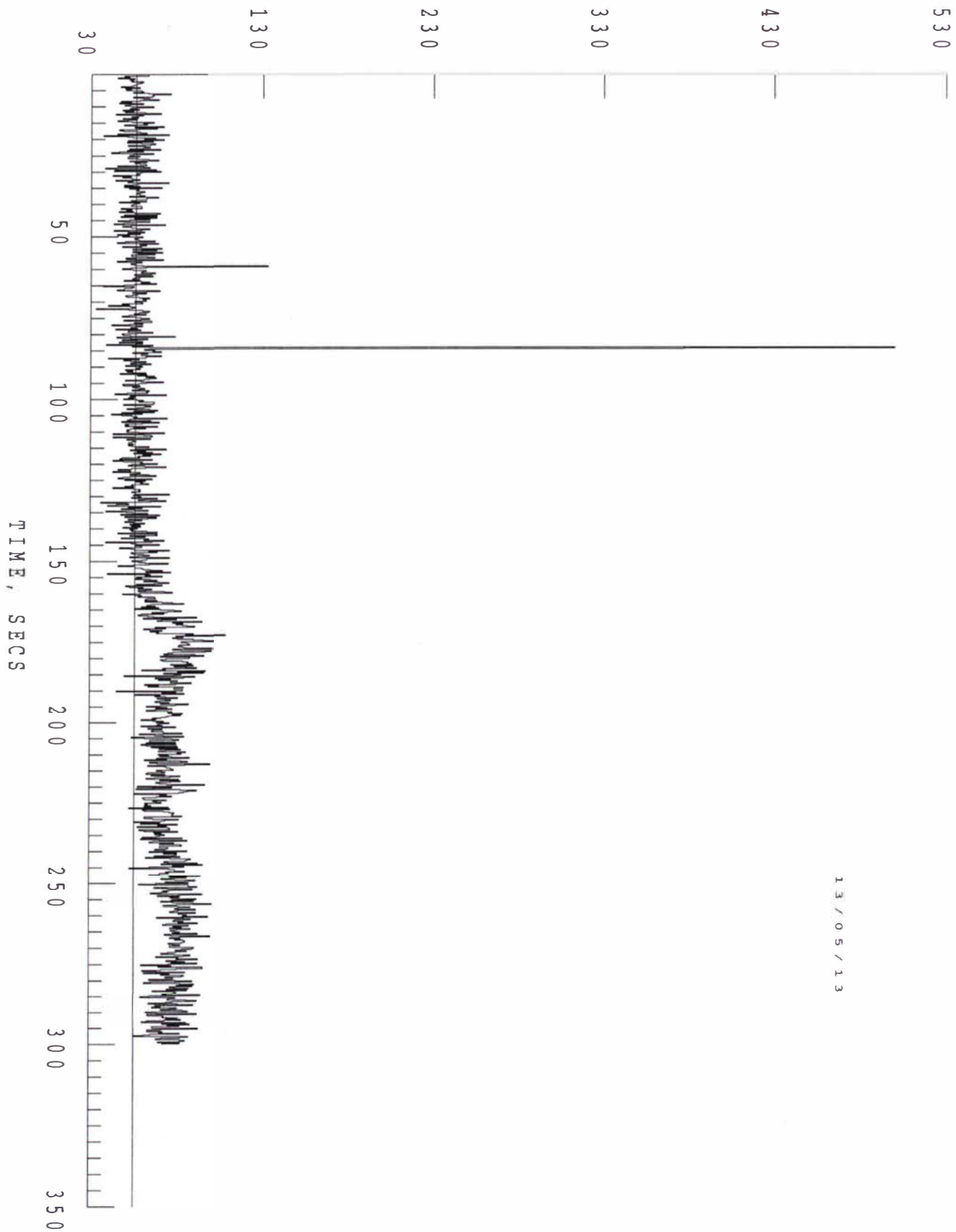
A

HESSI

13/05/13 7546.000 (KONUS2_20130513_07696)

25- 150 keV

COUNTS/0.250 S



13/05/13

Subject: [Ipn] BAT lightcurve for trigger at 130513_0208

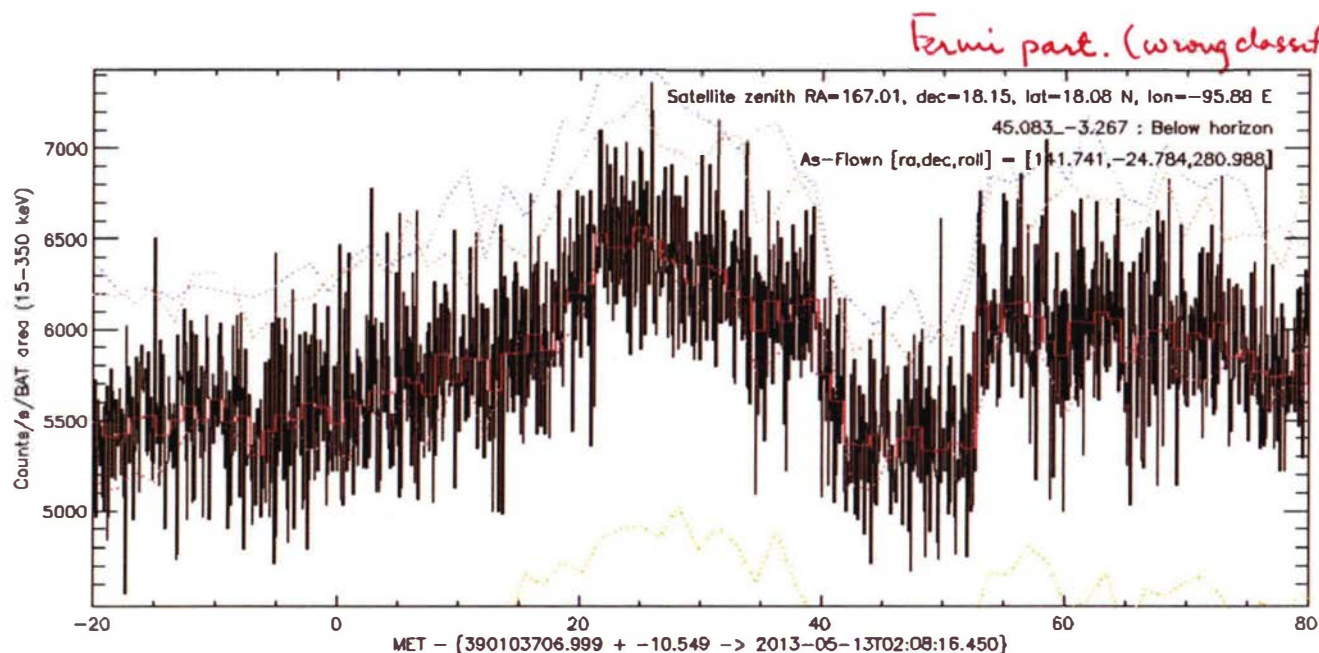
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/13/2013 2:45 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130513_0208.png



```
% /usr/local/bin/swinfo -o 390103706.999 -s 45.083_-3.267
Time(MET + UTC -> UT): 390103706.999 + -10.549 -> 2013-05-13T02:08:16.450
YYMMDD_SOD: 130513_07696.450 DOY=133
Swift Zenith(RA,dec): 167.01, 18.15
Swift Location(lon,lat,alt): -95.88 E, 18.08 N, 572 km
Obs Sequence Number: 00032820004
Obs Target Name: SN-NGC2891
Obs Date and Times: 2013-05-13 01:43:51 - 02:08:47
Obs Pointing(ra,dec,roll): 141.741, -24.784, 280.99
45.083_-3.267_imageloc (boresight_dist, angle): (95, -107)
45.083_-3.267_exposure (cm2 cos adjusted): 0
45.083_-3.267_altitude: -8 (down)
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130513_0208_bat64ms_ipn

87.0 KB

/tmp/130513_0208.png

19.4 KB

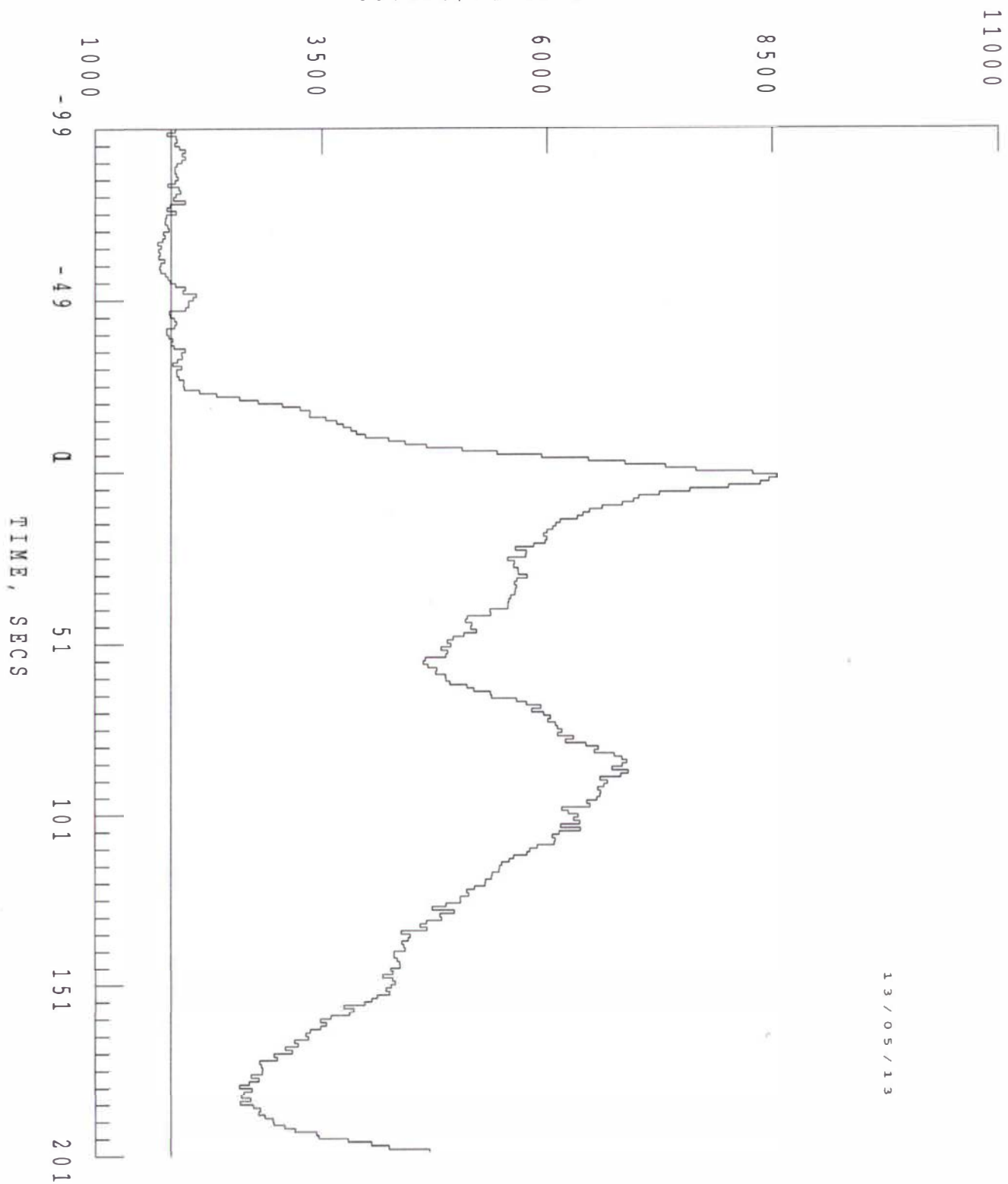
SUZAKU

13/05/13

7718.715

50- 240 keV

COUNTS/1.000 S



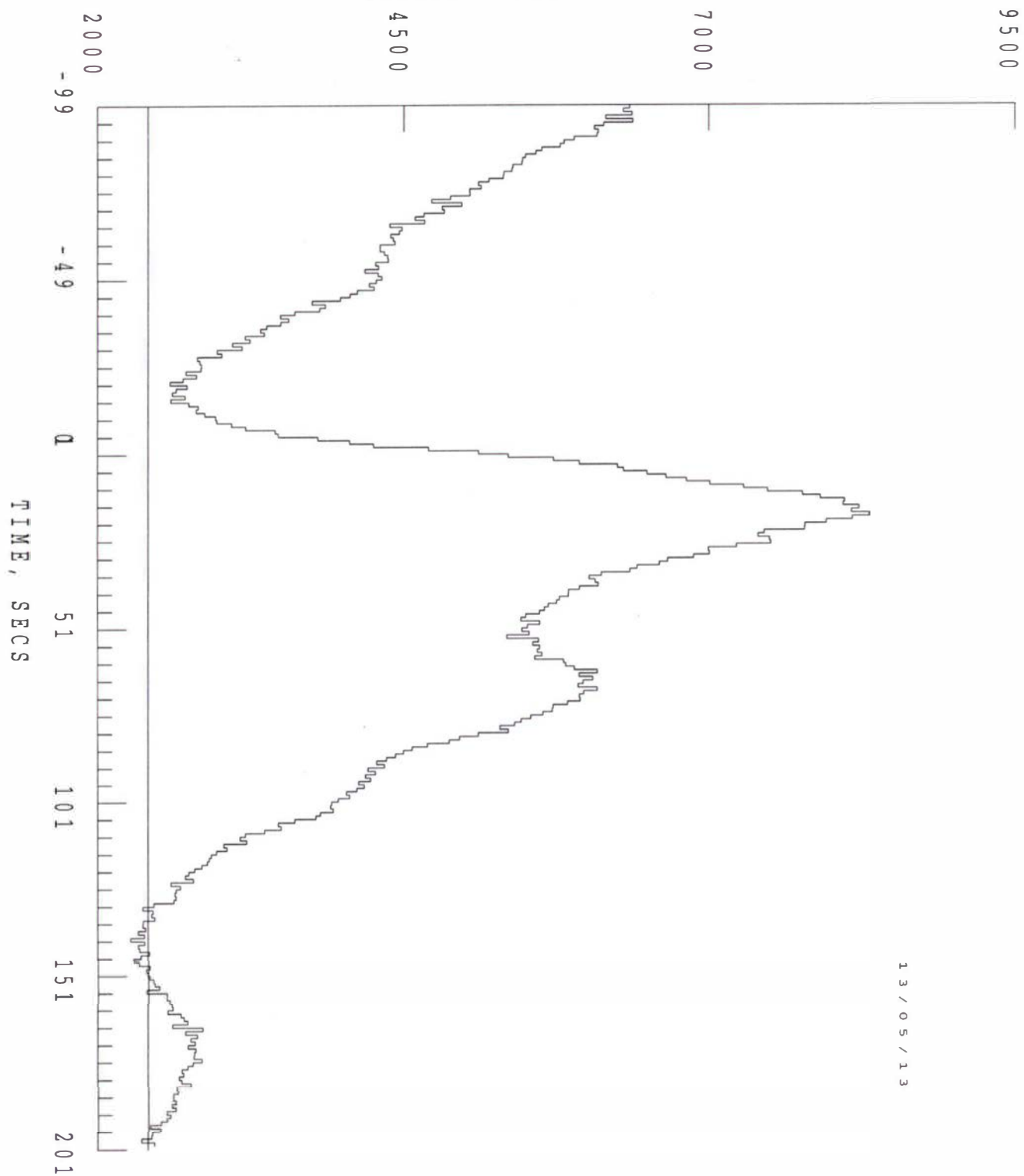
SUZAKU

13/05/13

7918.715

50- 240 keV

COUNTS/1.000 S

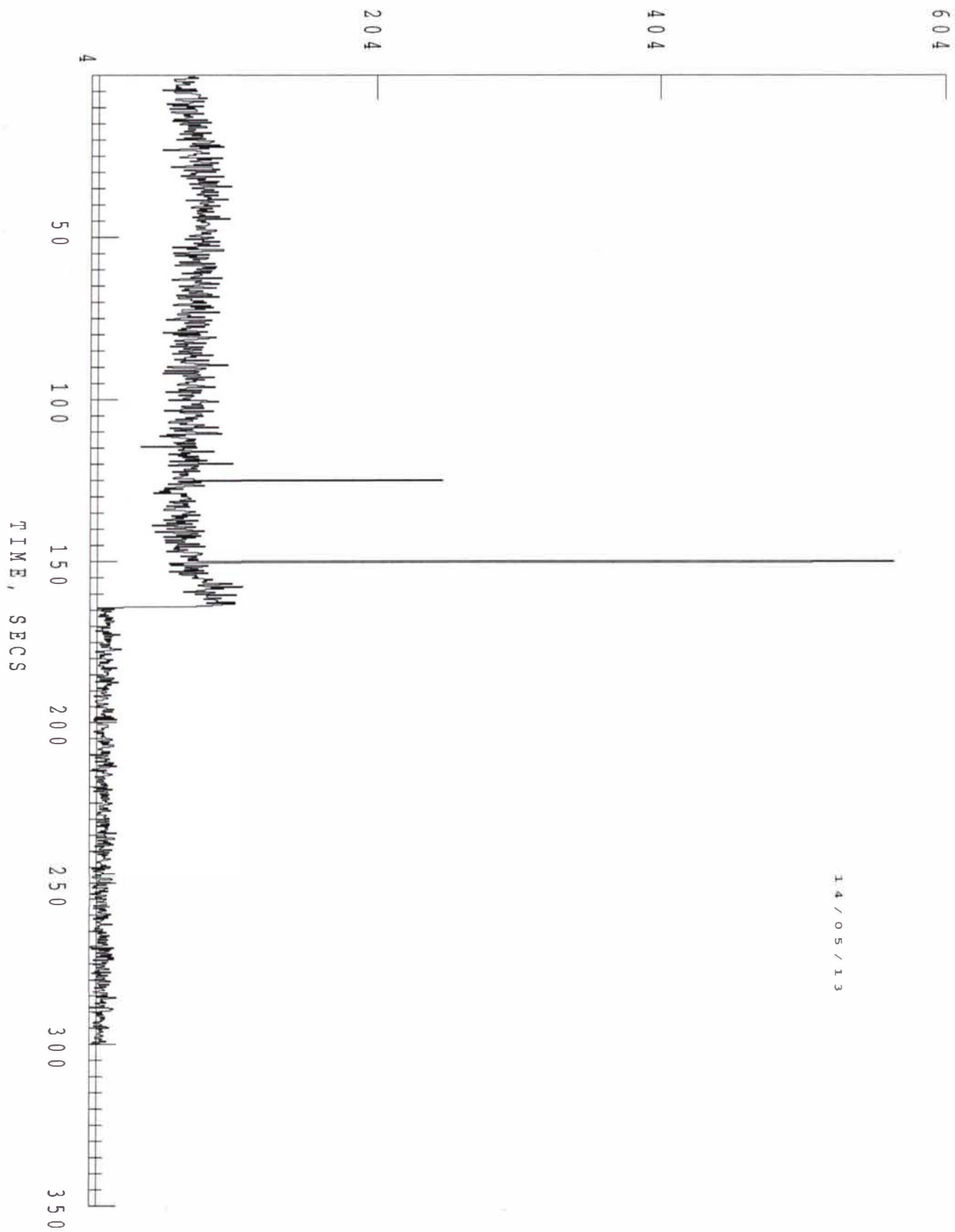


HESSI

13/05/13 7768.000 (SUZAKU_20130513_07918)

25- 150 keV

COUNTS/0.250 S



14/05/13

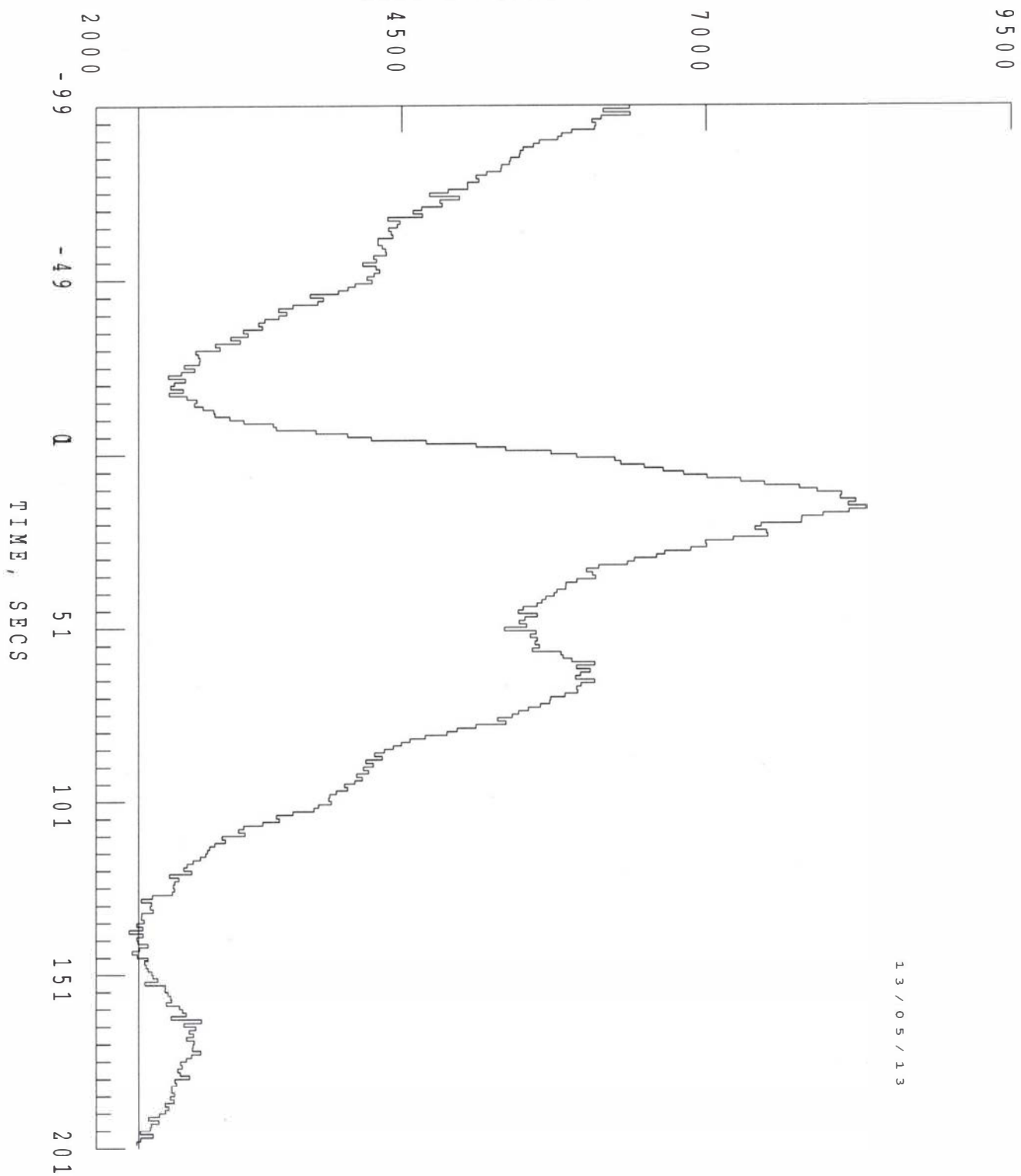
SUZAKU

13/05/13

7920.715

50- 240 keV

COUNTS/1.000 S



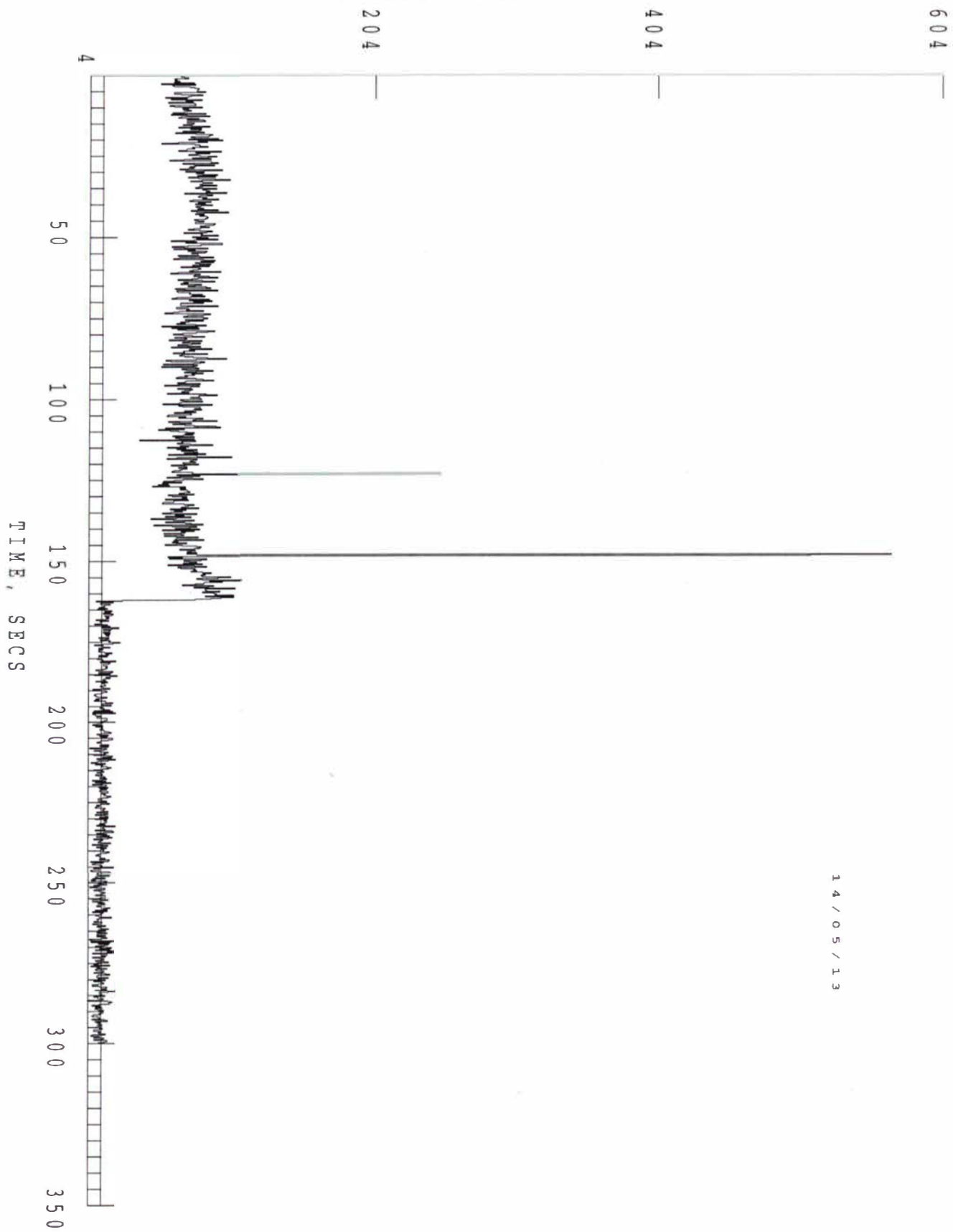
13/05/13

HESSI

13/05/13 7770.000 (SUZAKU_20130513_07920)

25- 150 keV

COUNTS/0.250 S



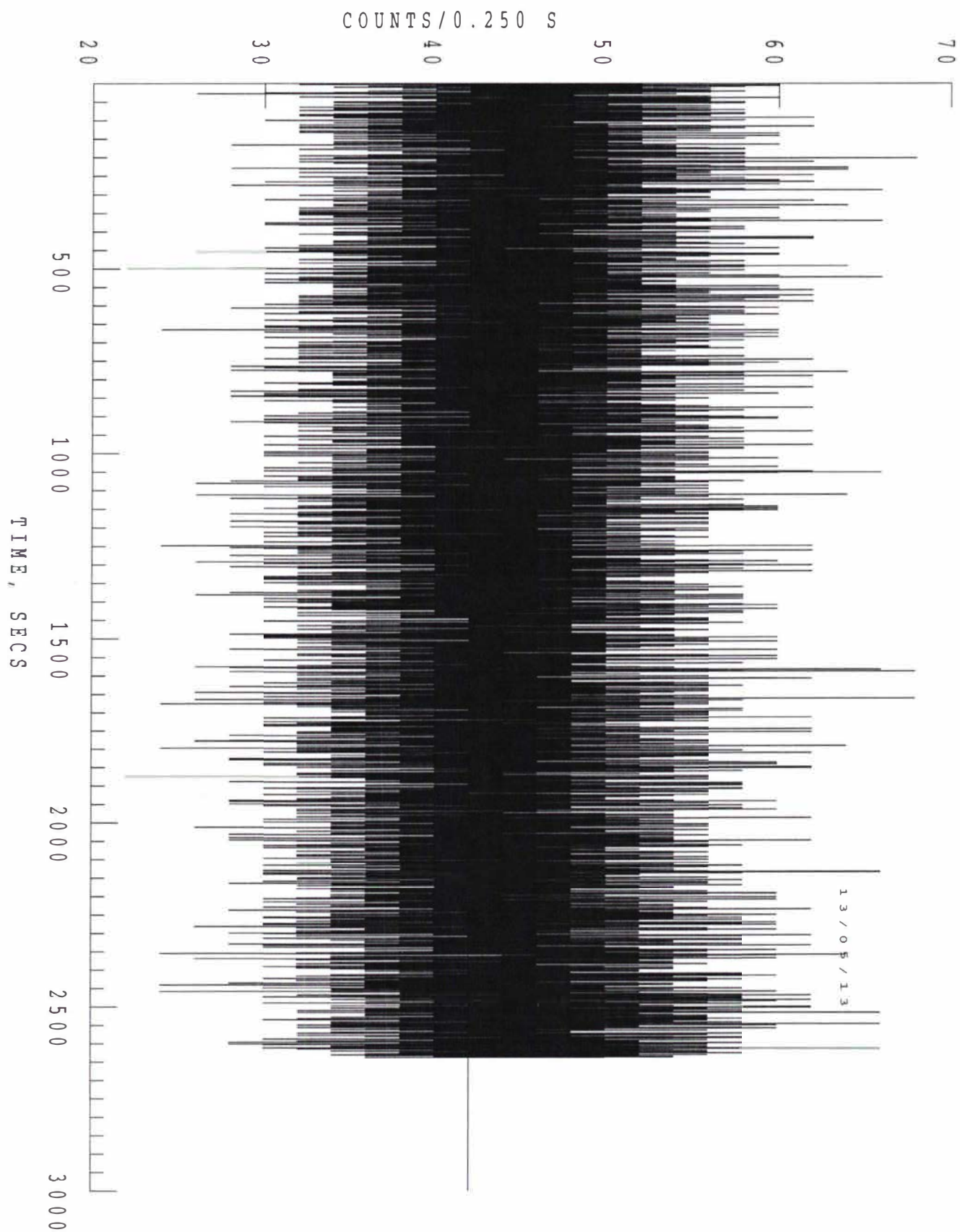
14/05/13

MS01

13/05/13

6572.603

50 - 3000 keV



B

From gcncirc@capella2.gsfc.nasa.gov Mon May 13 02:12:22 2013
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 130513A: a long GRB detected by INTEGRAL
To: khurley@ssl.berkeley.edu
Date: Mon, 13 May 2013 05:12:20 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

TITLE: GCN CIRCULAR
NUMBER: 14630
SUBJECT: GRB 130513A: a long GRB detected by INTEGRAL
DATE: 13/05/13 09:10:32 GMT
FROM: Sandro Mereghetti at IASF/CNR <sandro@iasf-milano.inaf.it>

S.Mereghetti (IASF-Milano), D.Gotz (CEA, Saclay), C.Ferrigno, E.Bozzo,
P.Bordas (ISDC, Versoix), and J.Borkowski (CAMK, Torun) on behalf of the
IBAS Localization Team report:

~~27480~~

a gamma ray burst lasting about 50 s has been detected by IBAS in the
IBIS/ISGRI data at 07:38:00 UT of May 13.

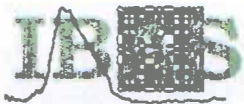
The refined coordinates (J2000) are:

R.A.= 144.77525 deg
DEC.= -5.24393 deg

with an uncertainty of 2 arcmin (90% c.l.).

The burst had a peak flux of 0.7 counts/cm²/s (20-200 keV, 1-s integration
time) and a fluence in the same energy range of about 1e-6 erg/cm².

A plot of the light curve will be posted at
http://ibas.iasf-milano.inaf.it/IBAS_Results.html



IBIS Light Curve

Short Description

Results

[INTEGRAL GRB Table](#)

[IBAS Alerts Page](#)

Updated in REAL TIME!

News

User Info :

[IBAS Alerts Distribution Systems](#)

[How to receive IBAS Alerts](#)

[Types of Alerts](#)

[Localization Accuracy](#)

[Sensitivity and GRB](#)

[Significance](#)

[Optical Monitoring Camera](#)

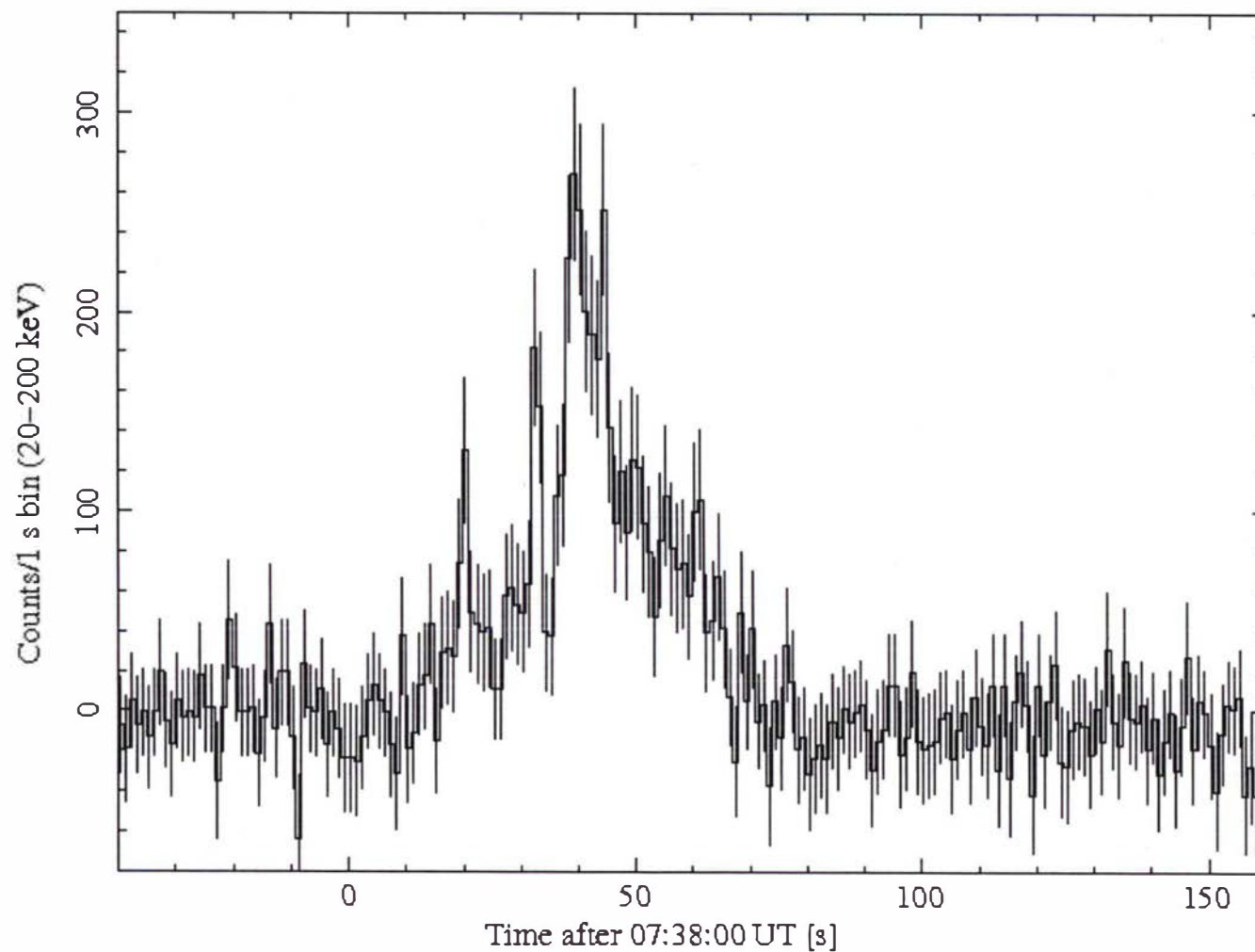
External Links :

[ISDC](#)

[INTEGRAL](#)

[ESA](#)

GRB 130513A – INTEGRAL IBIS Light Curve



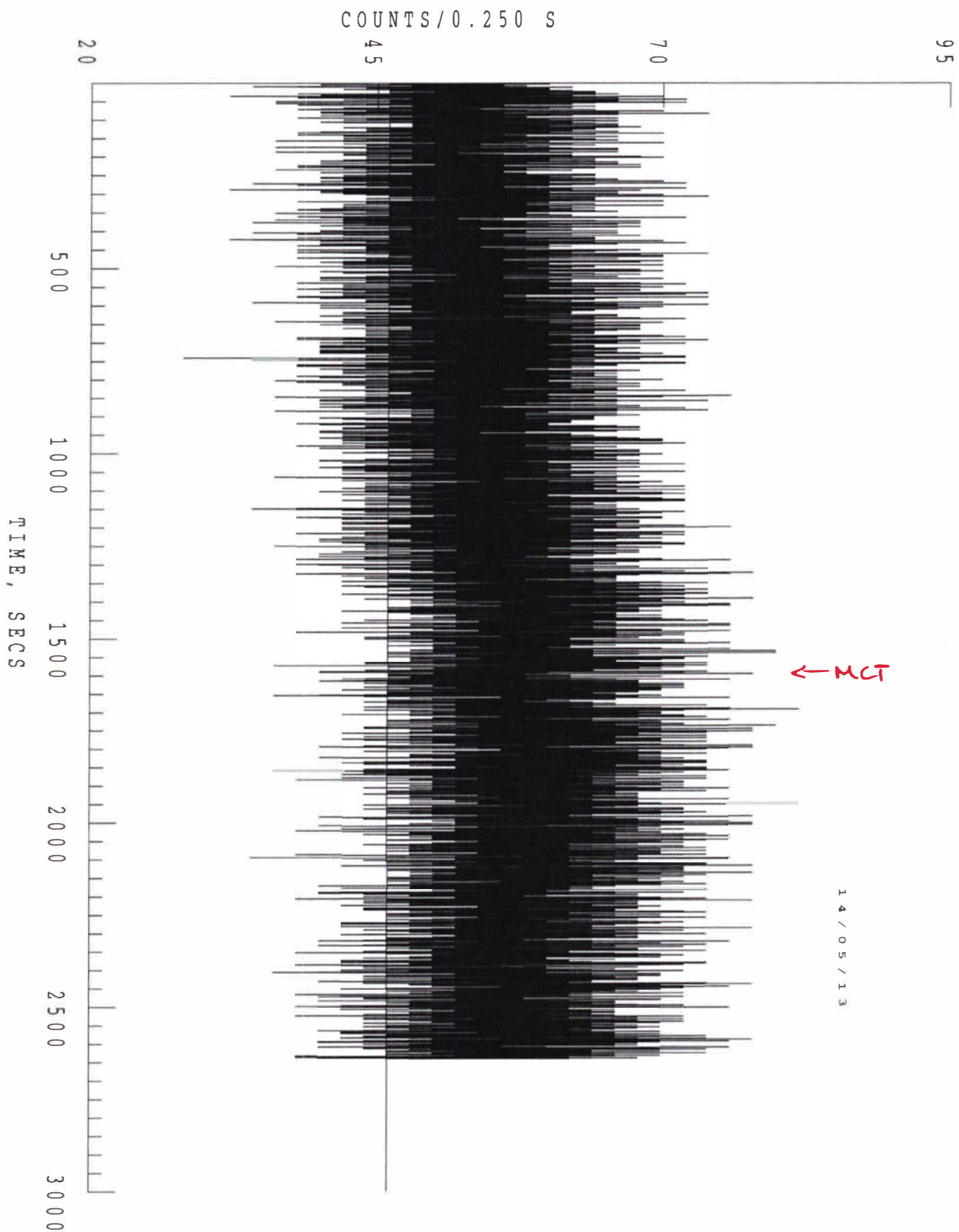
B

MS01

13/05/13

26132.280

50 - 3000 keV

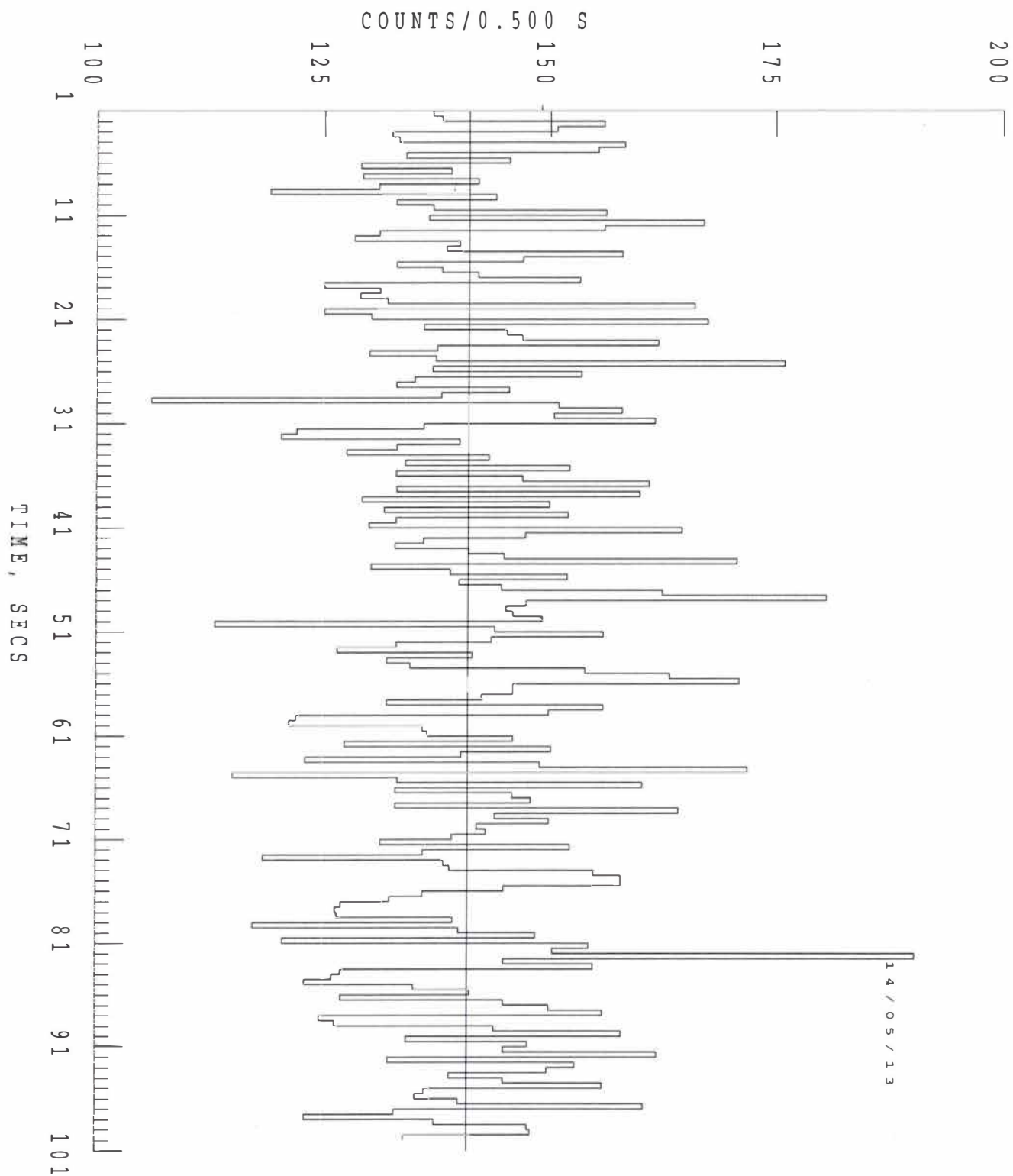


HESSI

13/05/13 27430.000 (IBIS_20130513_27480)

B

25- 150 keV



B

Subject: [lpn] BAT lightcurve for trigger at 130513_0738

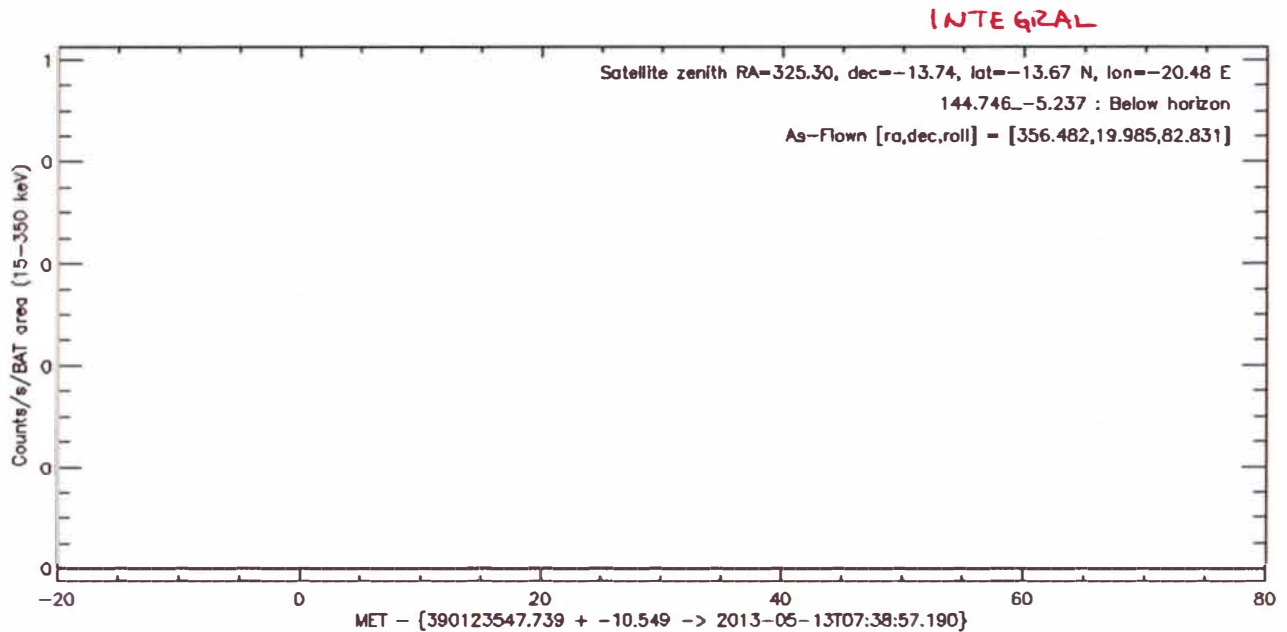
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/13/2013 4:18 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130513_0738.png



```
% /usr/local/bin/swinfo -o 390123547.739 -s 144.746_-5.237
Time(MET + UTCF -> UT): 390123547.739 + -10.549 -> 2013-05-13T07:38:57.190
YYMMDD_SOD: 130513_27537.190 DOY=133
Swift Zenith(RA,dec): 325.30, -13.74
Swift Location(lon,lat,alt): -20.48 E, -13.67 N, 575 km
Obs Sequence Number: 00075307004
Obs Target Name: saa-cold-133-01
Obs Date and Times: 2013-05-13 07:26:51 - 07:51:50
Obs Pointing(ra,dec,roll): 356.482, 19.985, 82.83
144.746_-5.237_imageloc (boresight_dist, angle):(146, -104)
144.746_-5.237_exposure (cm^2 cos adjusted): 0
144.746_-5.237_altitude: -48 (down)
```

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

lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130513_0738_bat64ms_ipn

87.1 KB

/tmp/130513_0738.png

5.8 KB

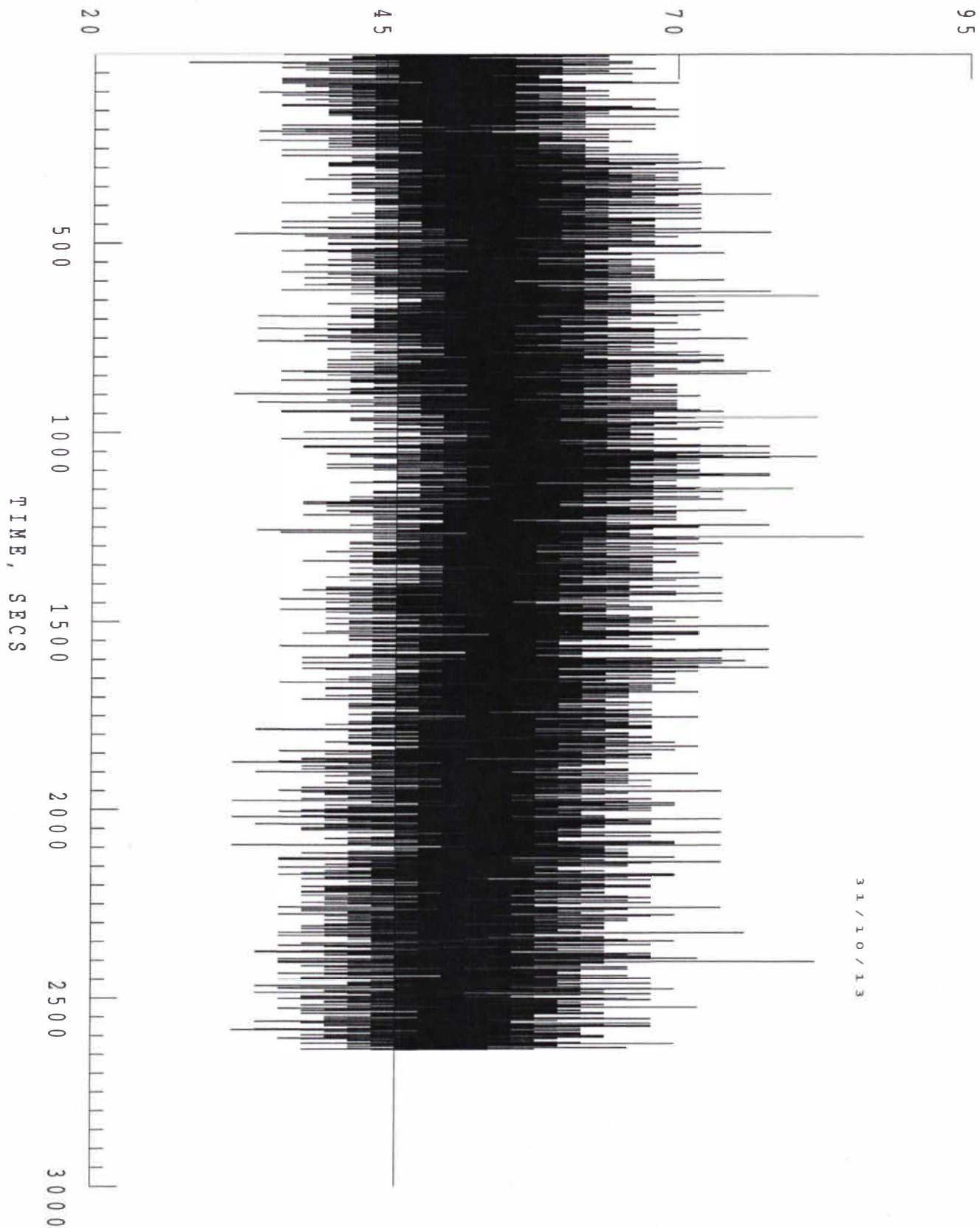
MS01

13/05/13

33512.160

50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Wed Oct 30 10:11:34 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Wed, 30 Oct 2013 10:11:33 -0800 (PST)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20130513_34833
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 30-Oct-2013 11:10:16.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.500000
Full time range in SAA
No Eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

KONUS HRES 20130513 57170

TRIGGER TIME: 13/05/13 DOY 133 Julian 2456427.16169 UT = 15.881 15:52:50 (57170.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

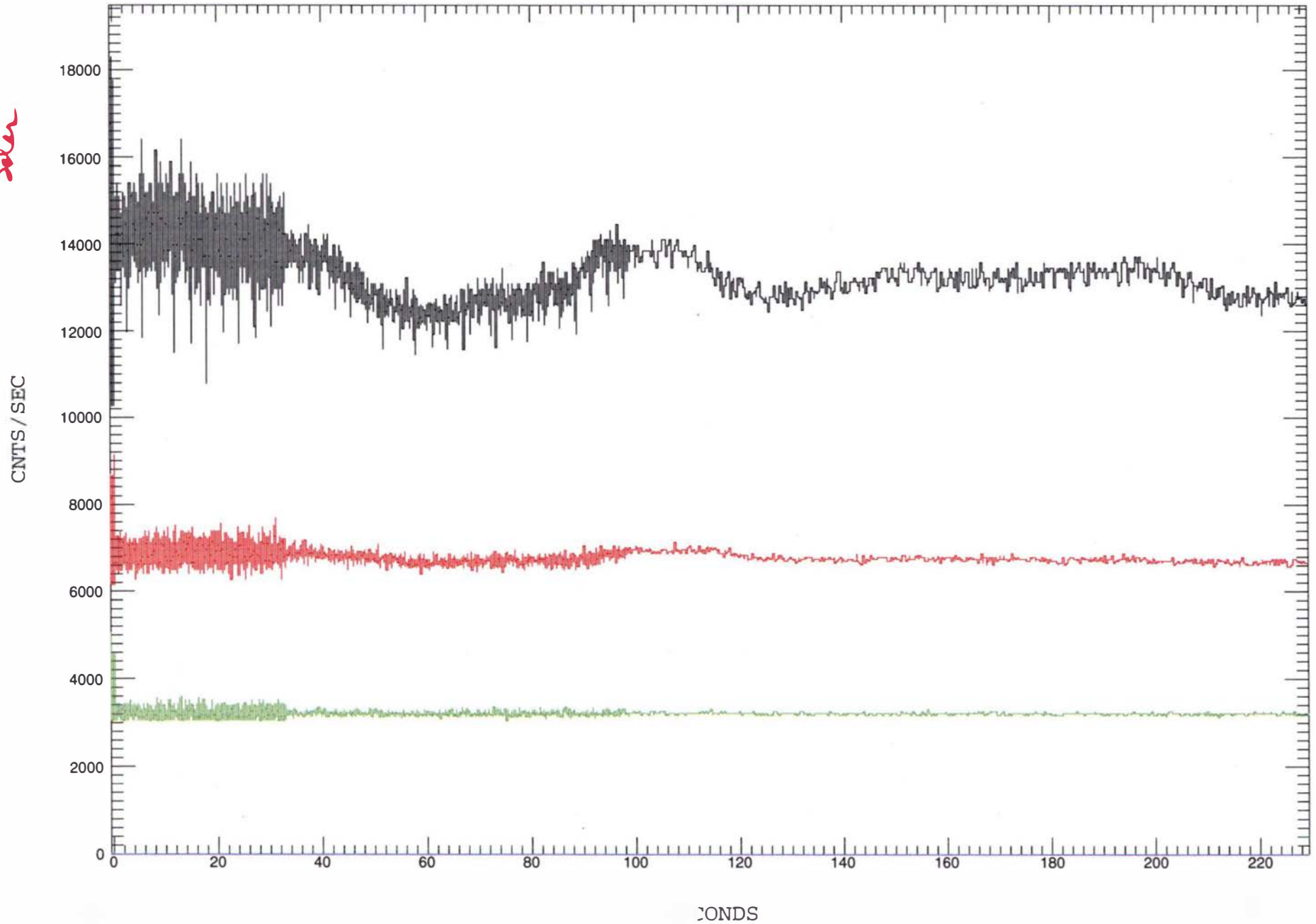
Chan 4 : [> 10 MeV]

Channel 1 + 9300

Channel 2 + 6200

Channel 3 + 3100

Channel 4 + 0



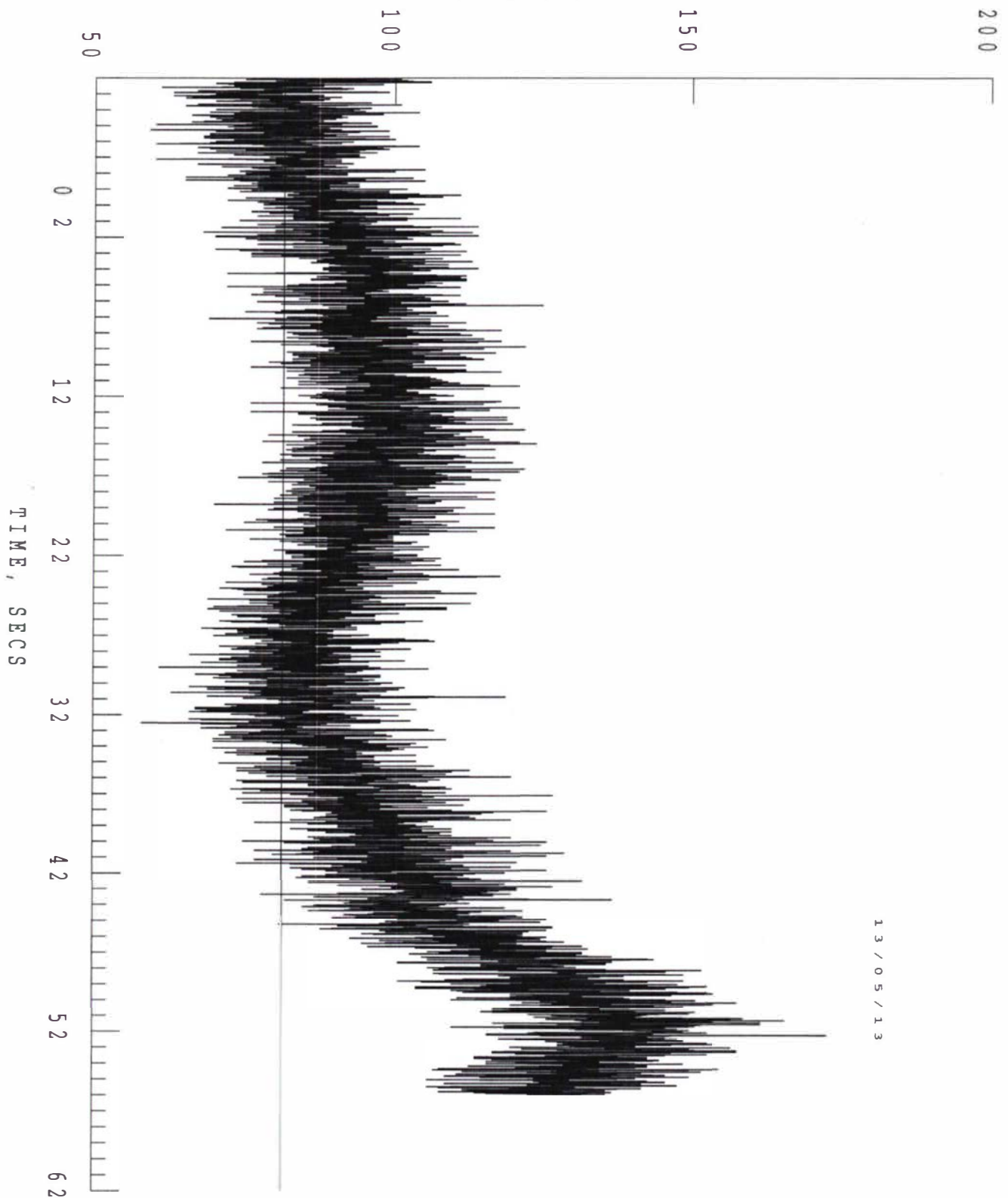
SUZAKU

13/05/13

57475.701

50 - 240 keV

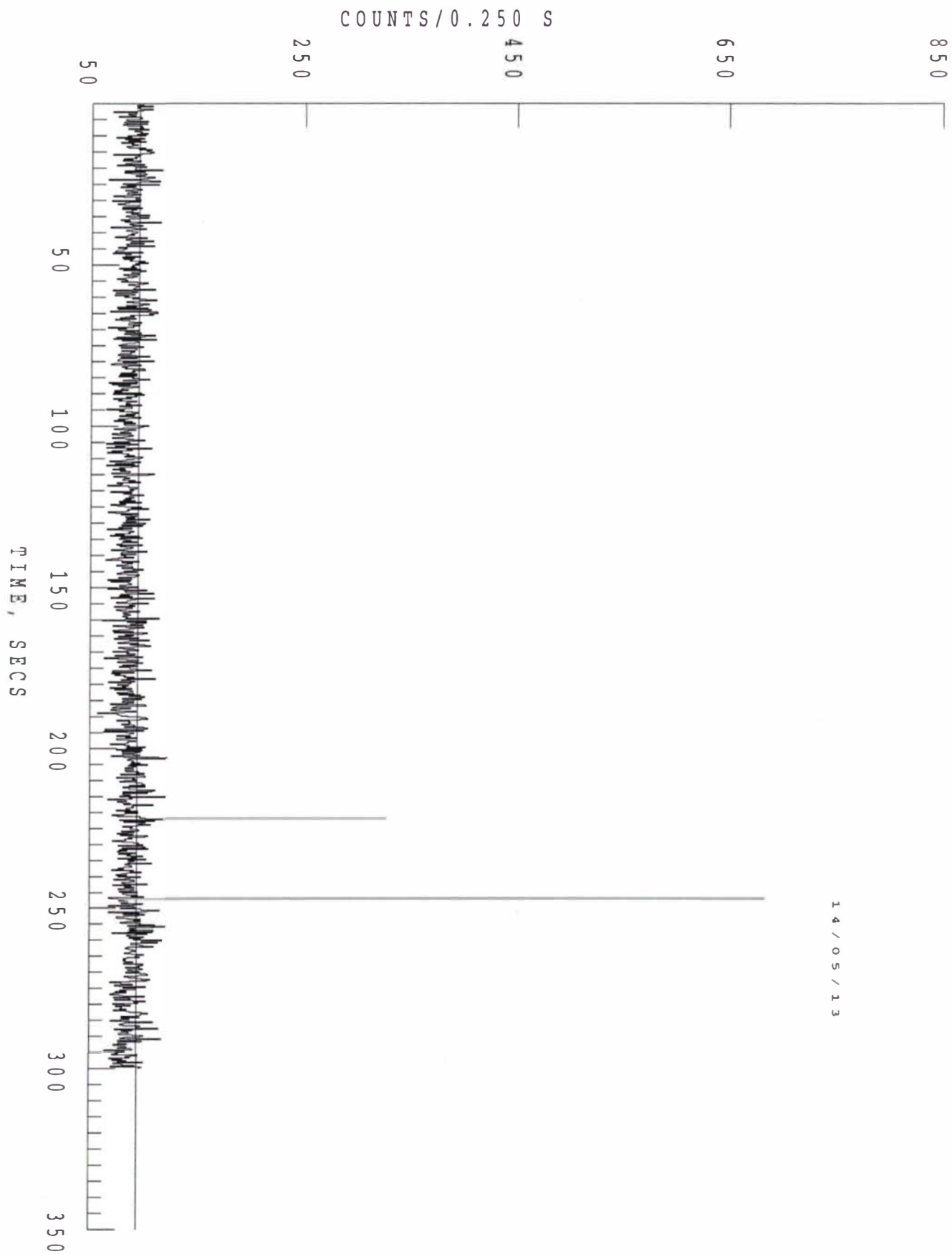
COUNTS/0.016 S



HESSI

13/05/13 57325.000 (SUZAKU_20130513_57475)

25- 150 keV

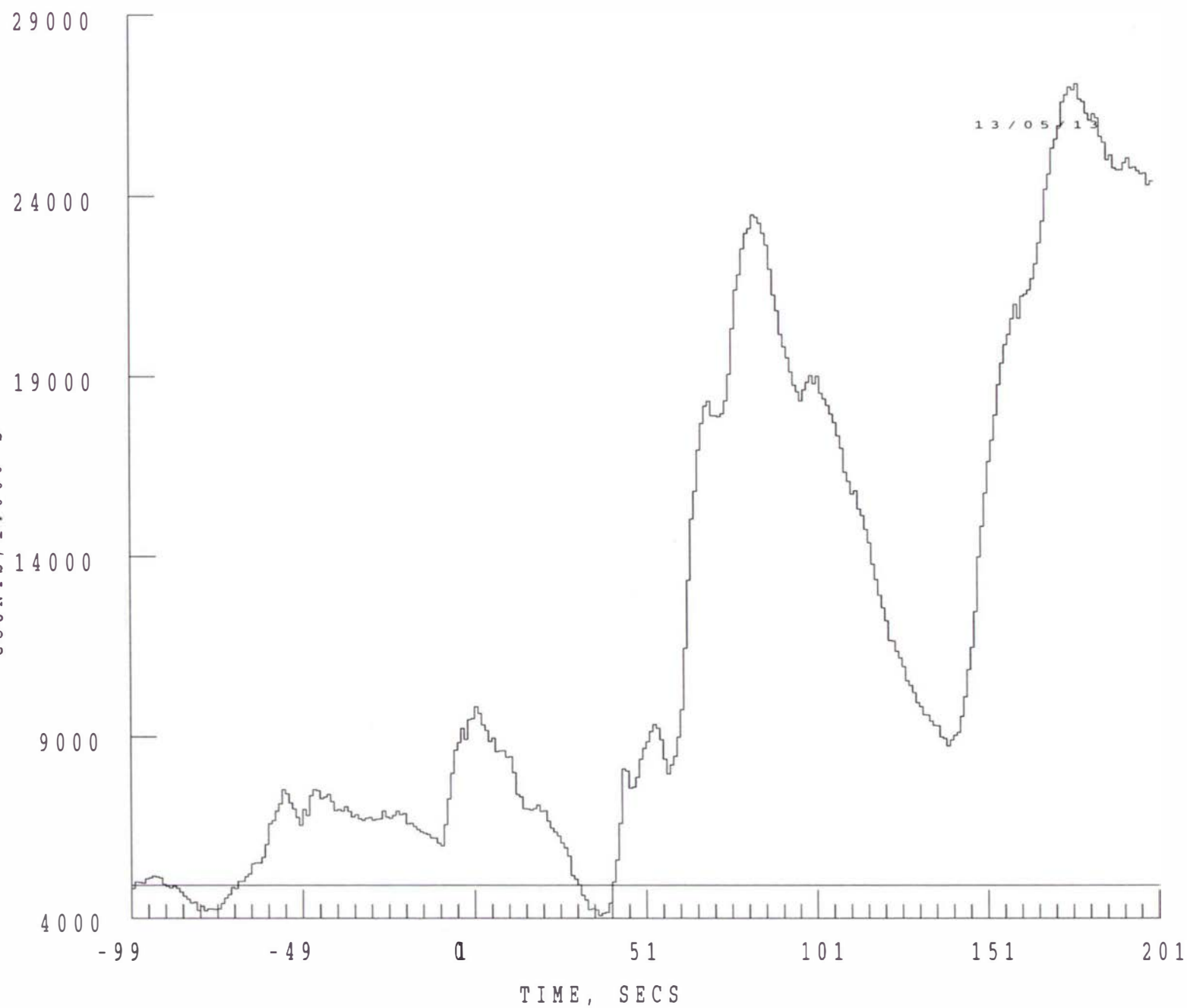


13/05/13 57581.702

SUZAKU

50- 240 keV

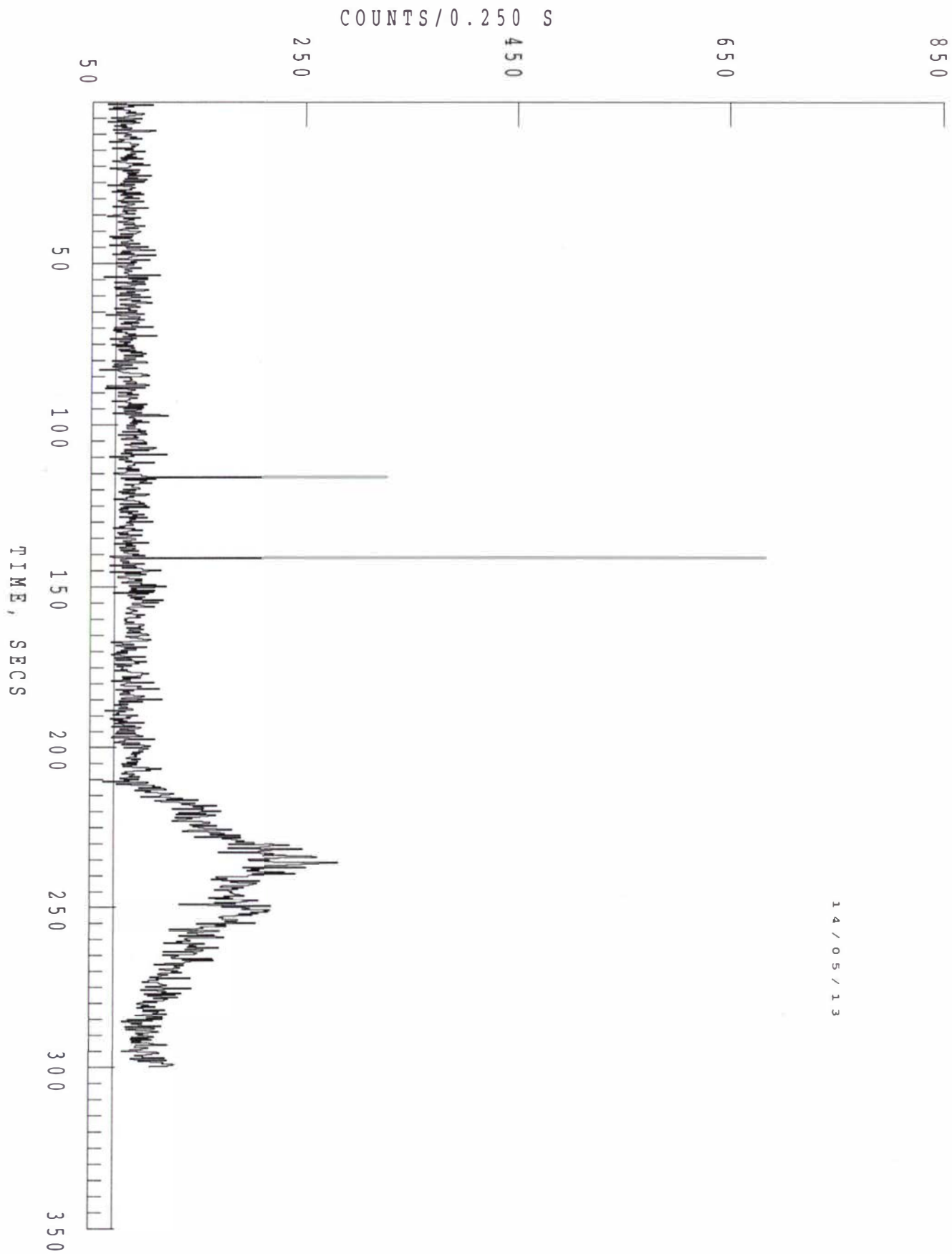
COUNTS/1.000 S



HESSI

13/05/13 57431.000 (SUZAKU_20130513_57581)

25- 150 keV



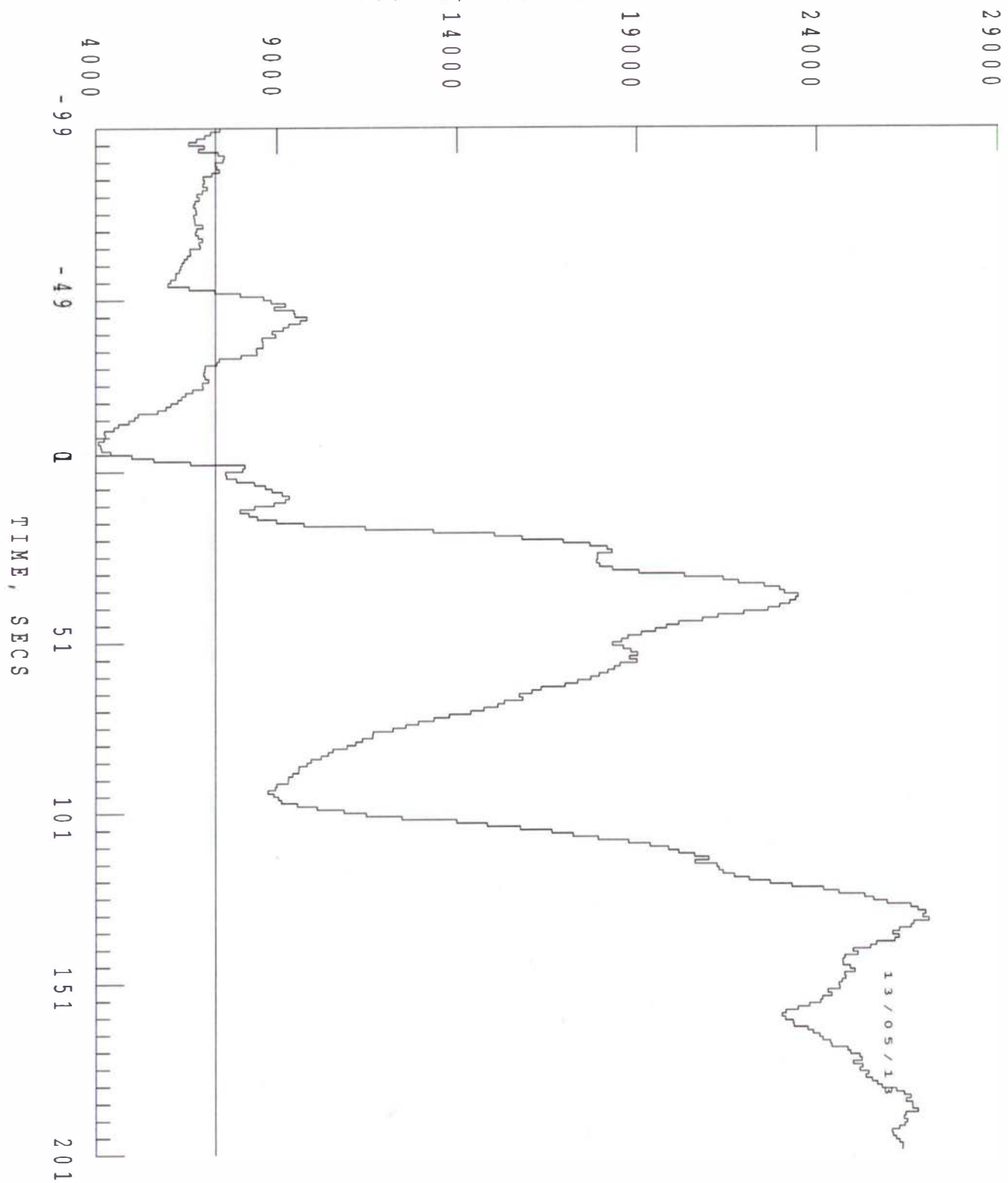
SUZAKU

13/05/13

57626.702

50- 240 keV

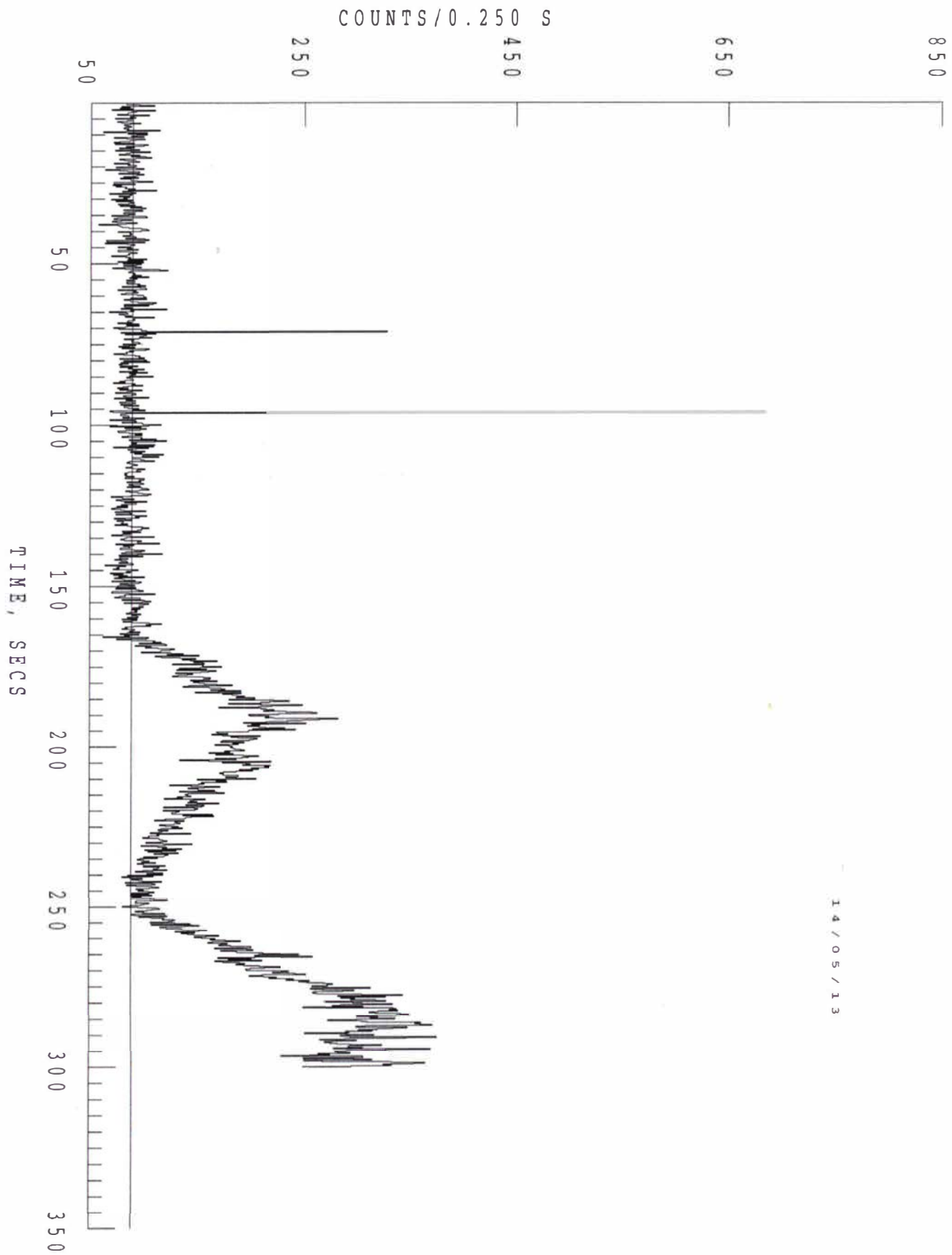
COUNTS/1.000 S



HESSI

13/05/13 57476.000 (SUZAKU_20130513_57626)

25- 150 keV

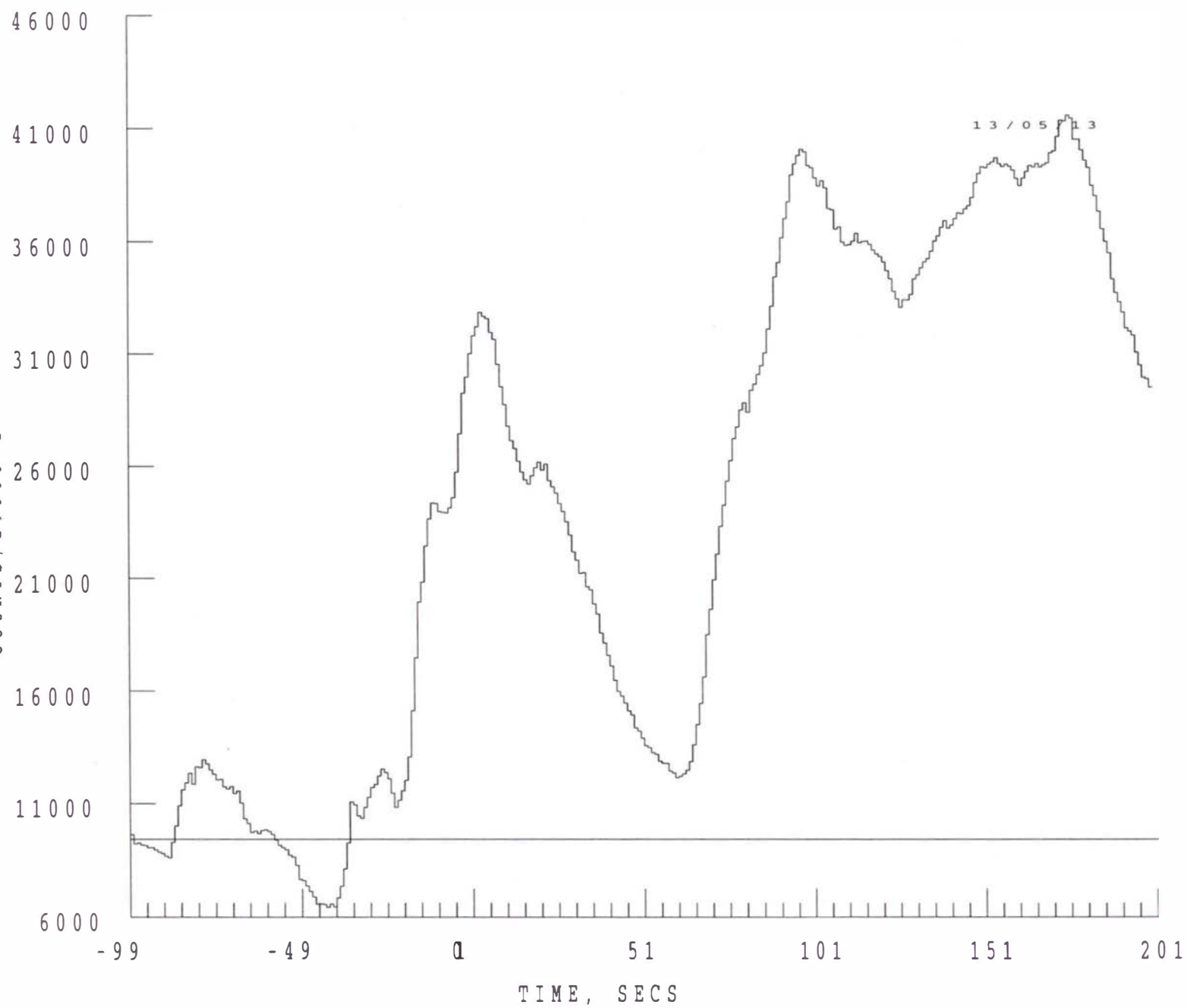


13/05/13 57660.702

SUZAKU

50- 240 keV

COUNTS/1.000 S



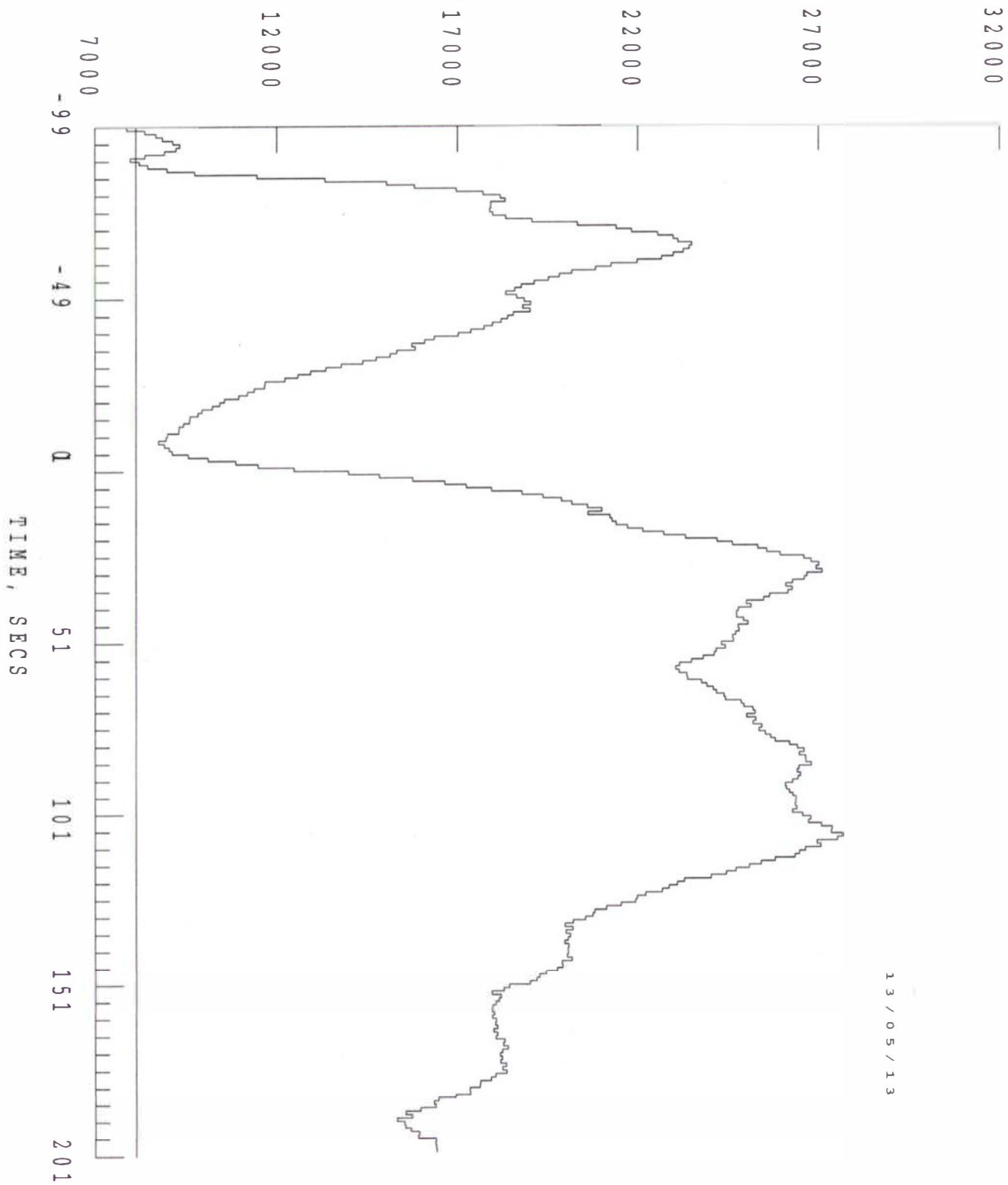
SUZAKU

13/05/13

57728.702

50- 240 keV

COUNTS/1.000 S

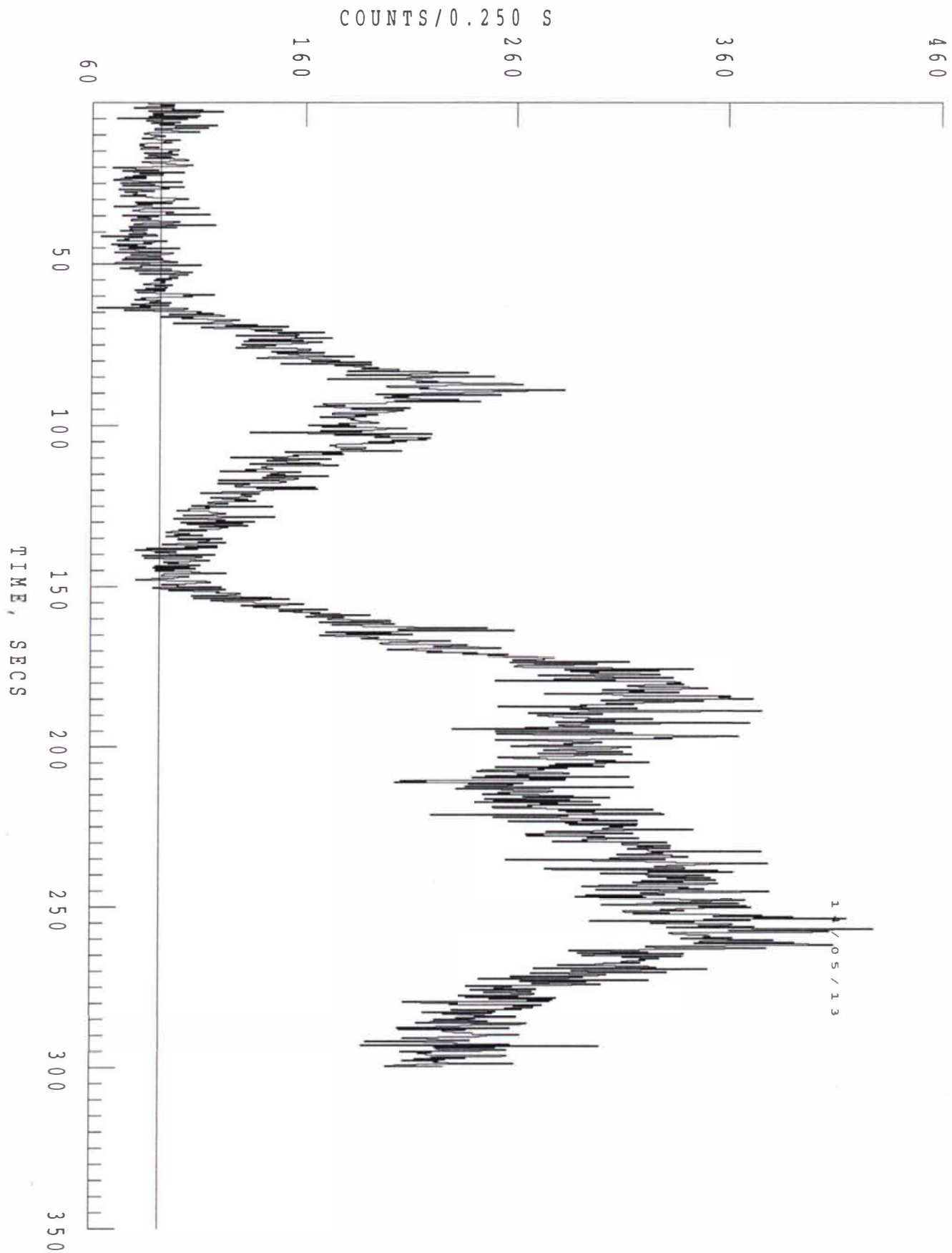


13/05/13

HESSI

13/05/13 57578.000 (SUZAKU_20130513_57728)

25- 150 keV



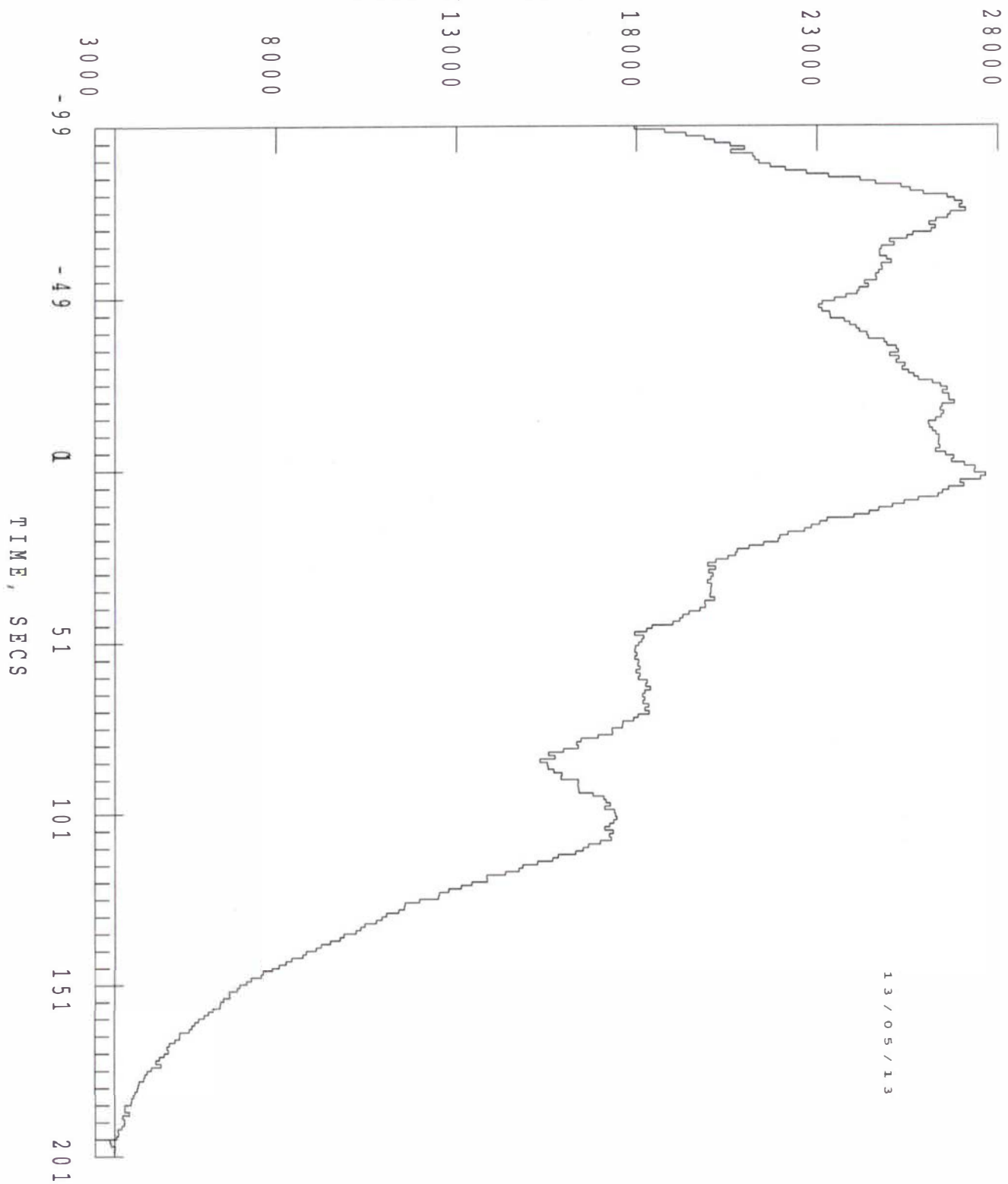
SUZAKU

13/05/13

57833.702

50- 240 keV

COUNTS/1.000 S

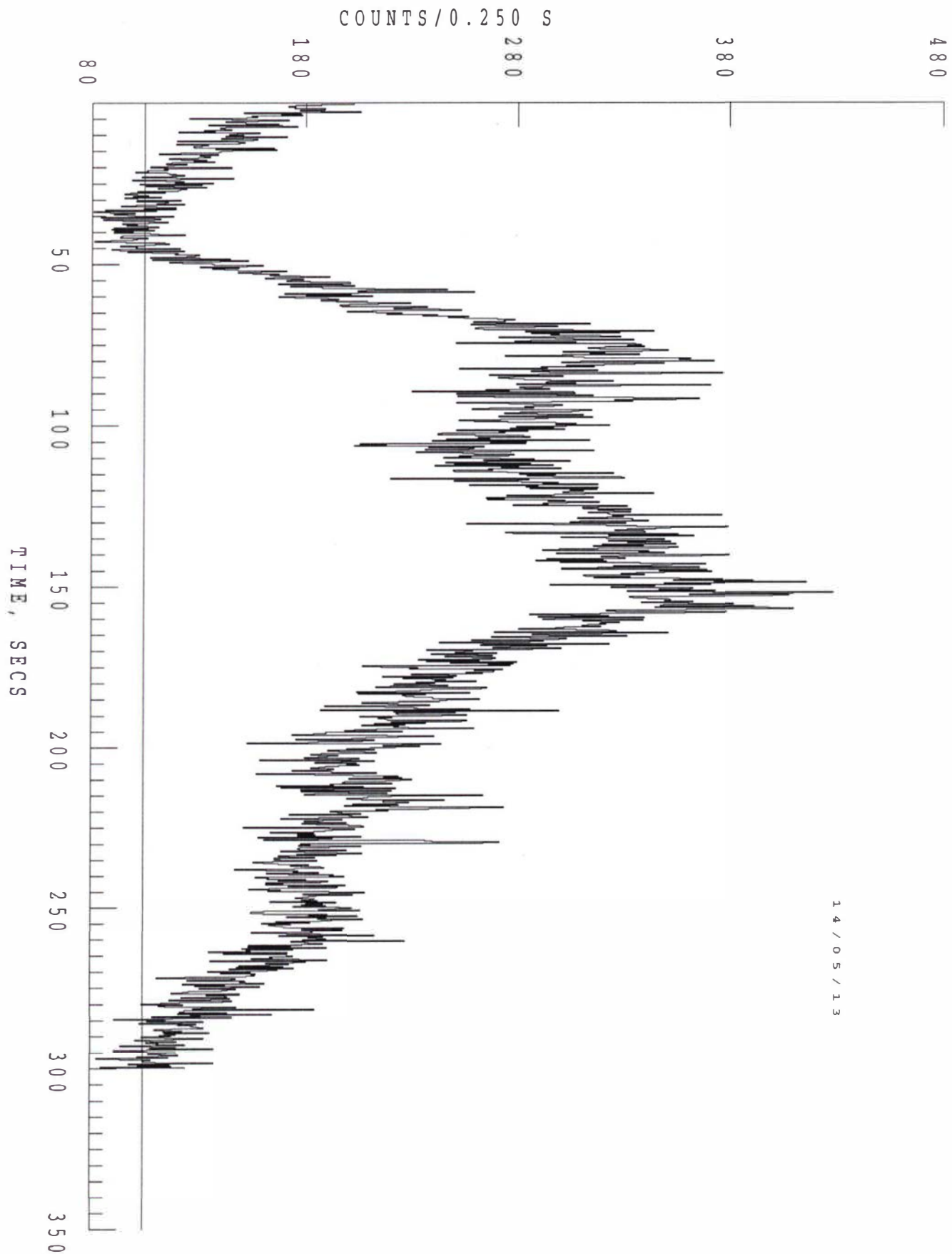


13/05/13

HESSI

13/05/13 57683.000 (SUZAKU_20130513_57833)

25- 150 keV

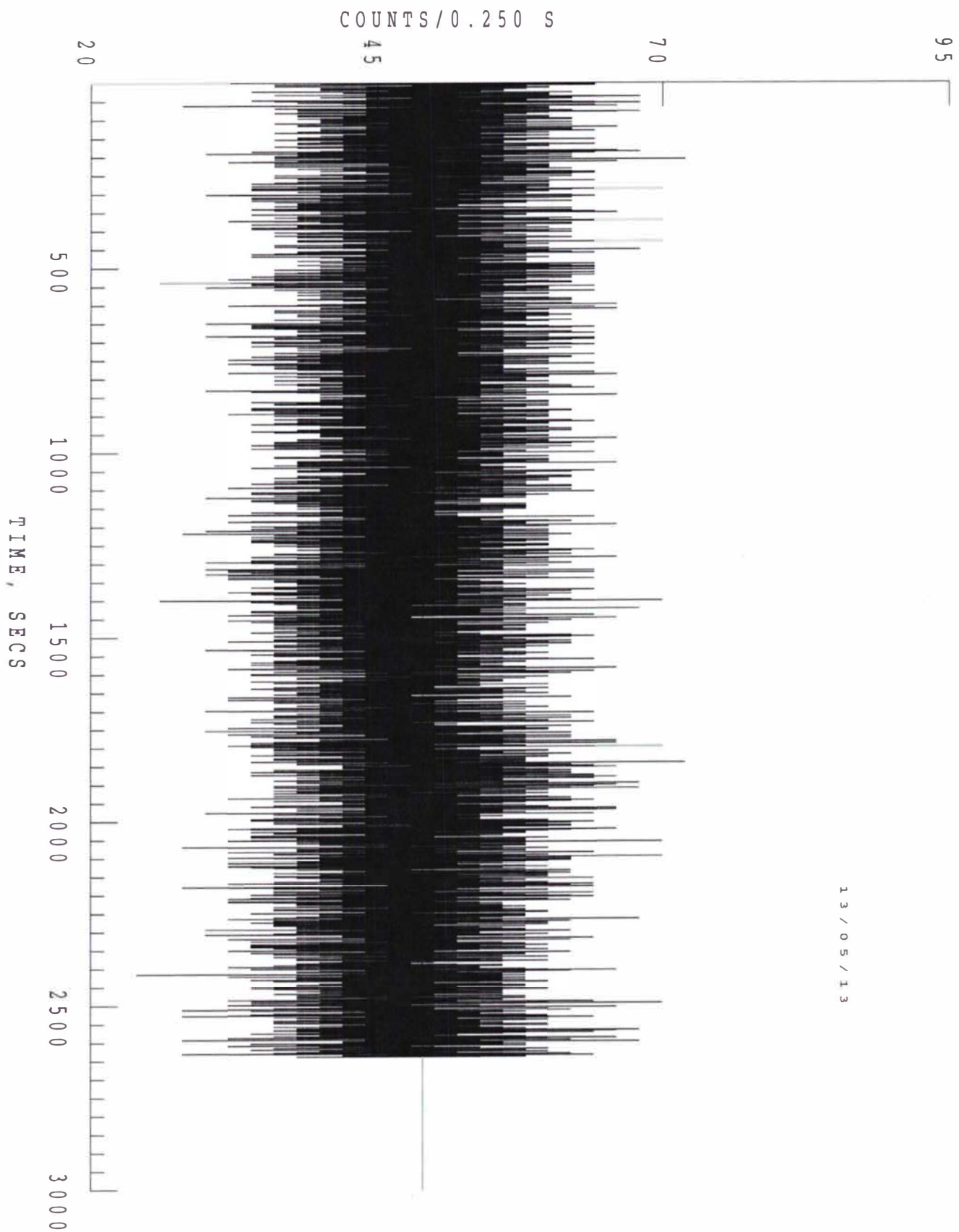


MS01

13/05/13

56131.784

50 - 3000 keV

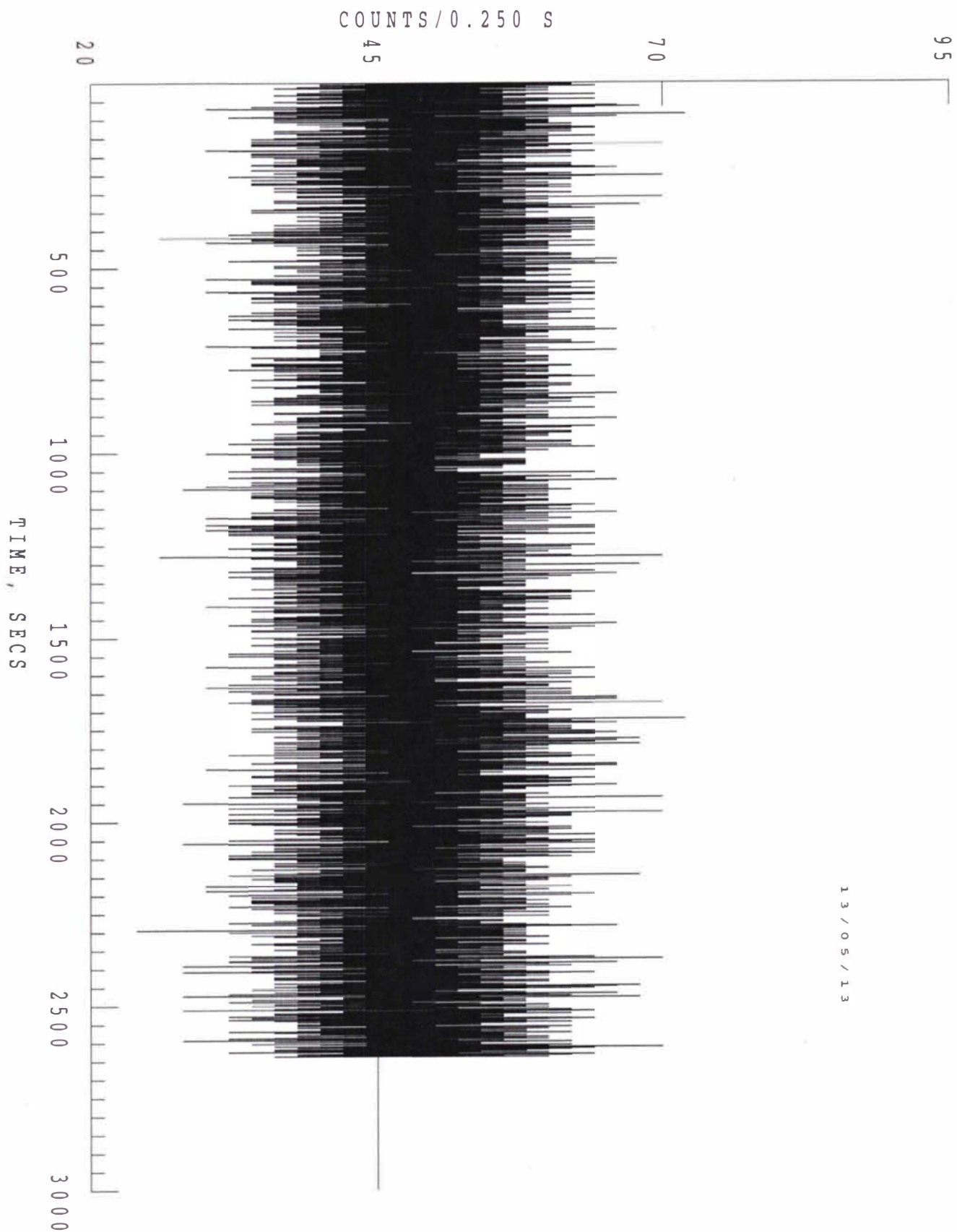


MS01

13/05/13

56251.782

50 - 3000 keV

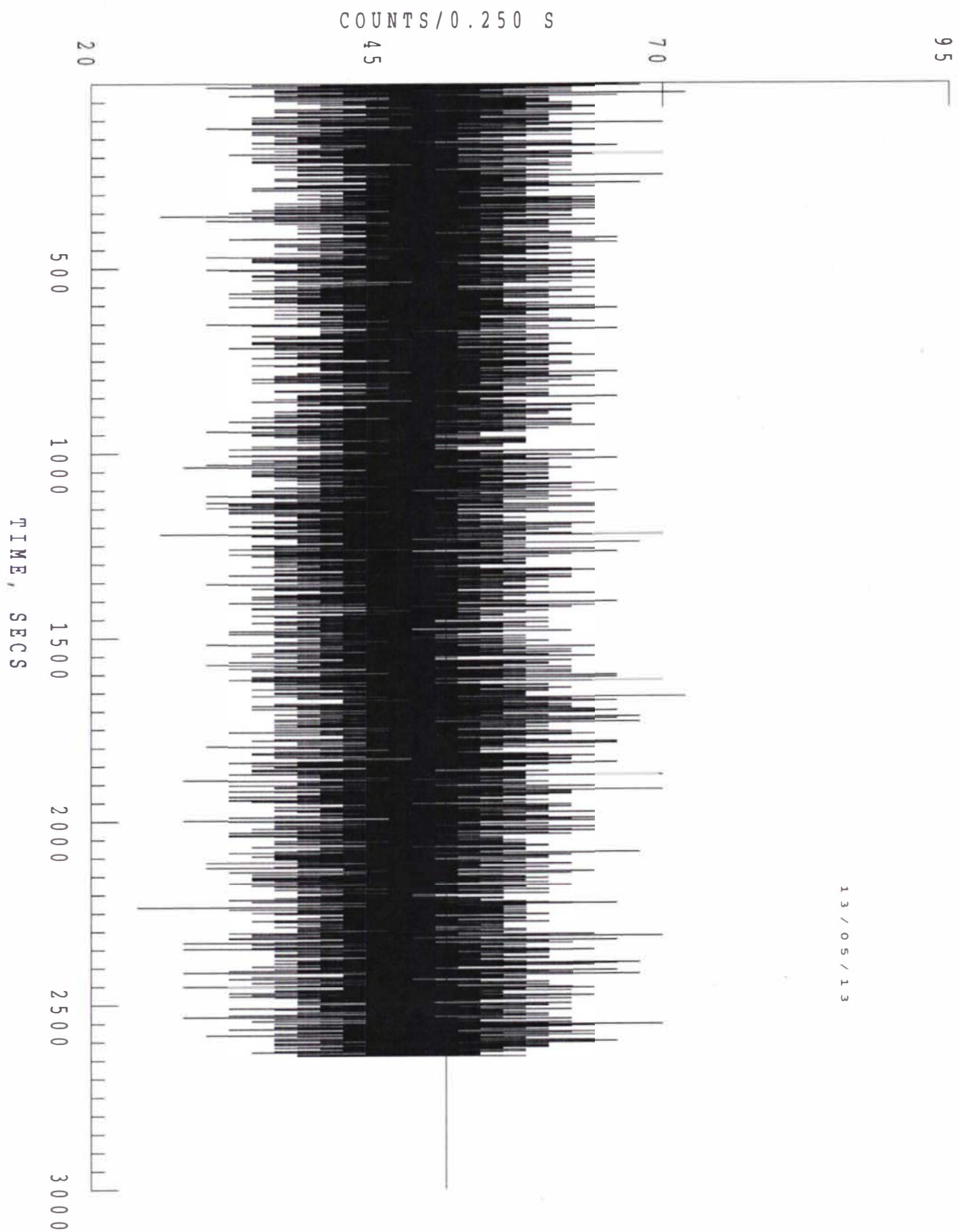


MS01

13/05/13

56311.782

50 - 3000 keV



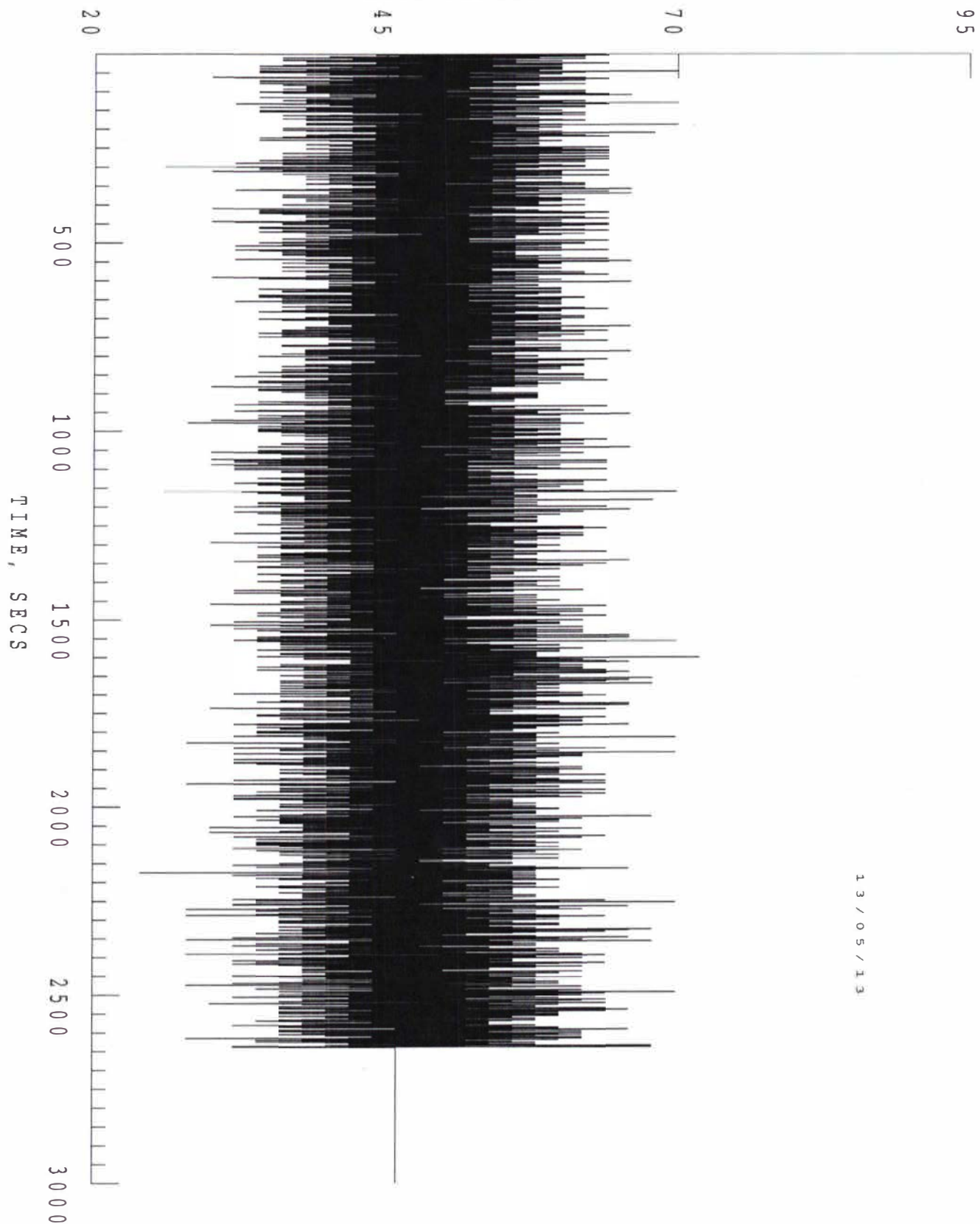
MS01

13/05/13

56371.781

50 - 3000 keV

COUNTS/0.250 S



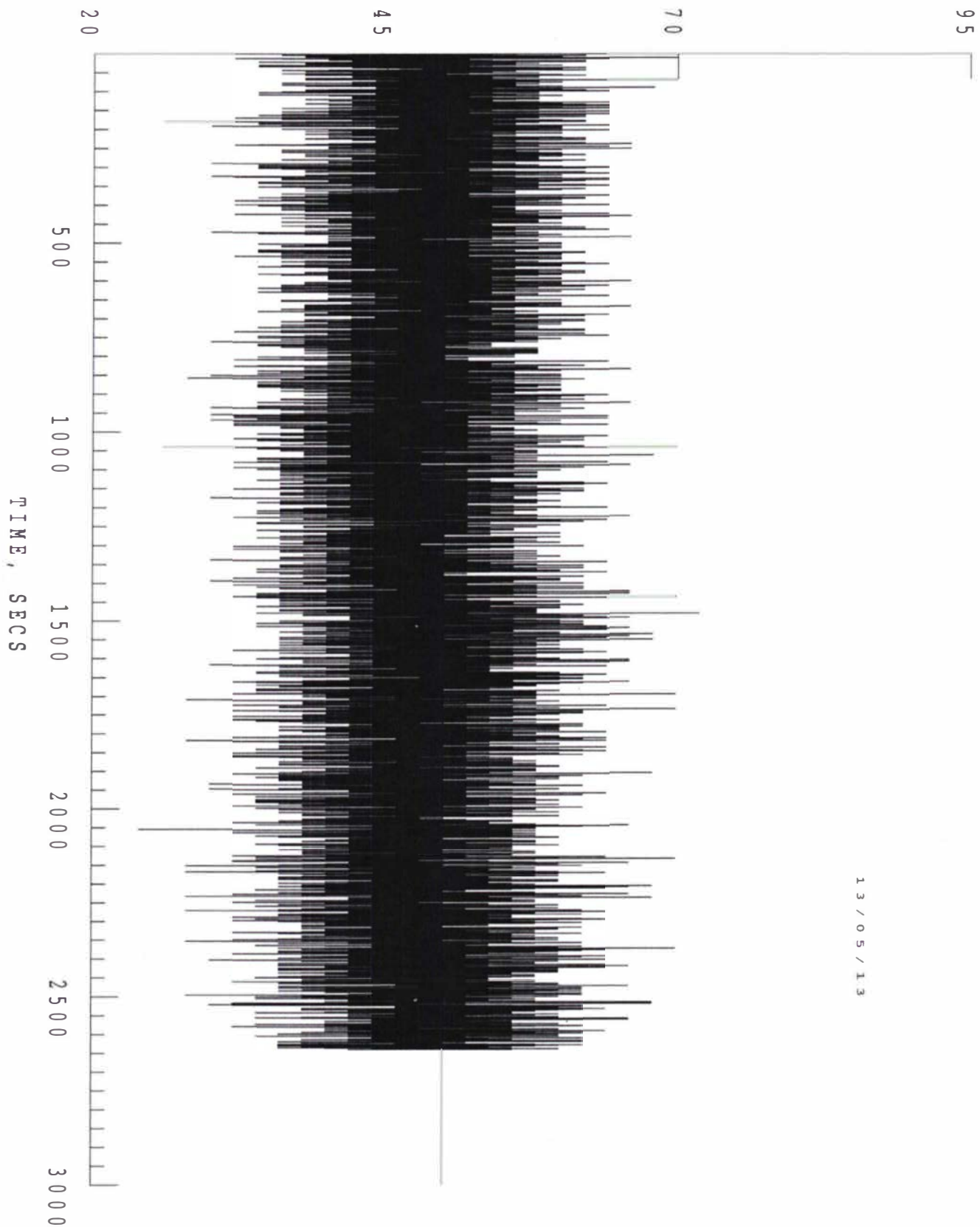
MS01

13/05/13

56491.781

50 - 3000 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 130513_1557

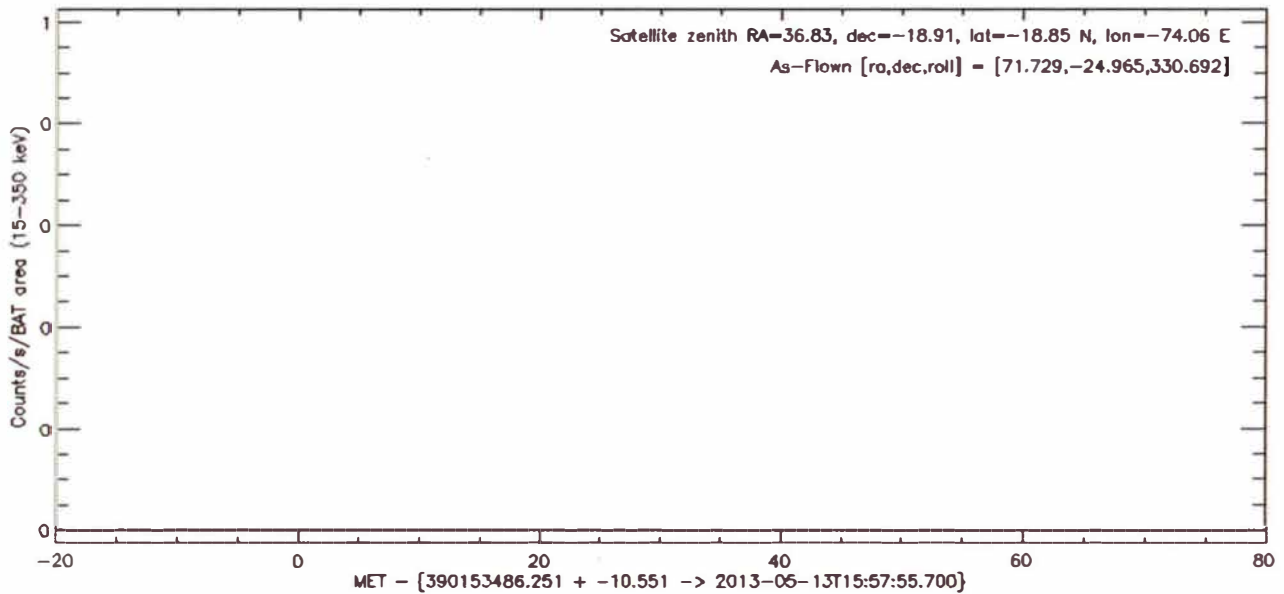
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/13/2013 11:45 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130513_1557.png



```
% /usr/local/bin/swinfo -o 390153486.251
Time(MET + UTC -> UT): 390153486.251 + -10.551 -> 2013-05-13T15:57:55.700
YYMMDD_SOD: 130513_57475.700 DOY=133
Swift Zenith(RA,dec): 36.83, -18.91
Swift Location(lon,lat,alt): -74.06 E, -18.85 N, 586 km
Obs Sequence Number: 00074971037
Obs Target Name: saa-cold-133-06
Obs Date and Times: 2013-05-13 15:52:51 - 16:14:49
Obs Pointing(ra,dec,roll): 71.729, -24.965, 330.69
```

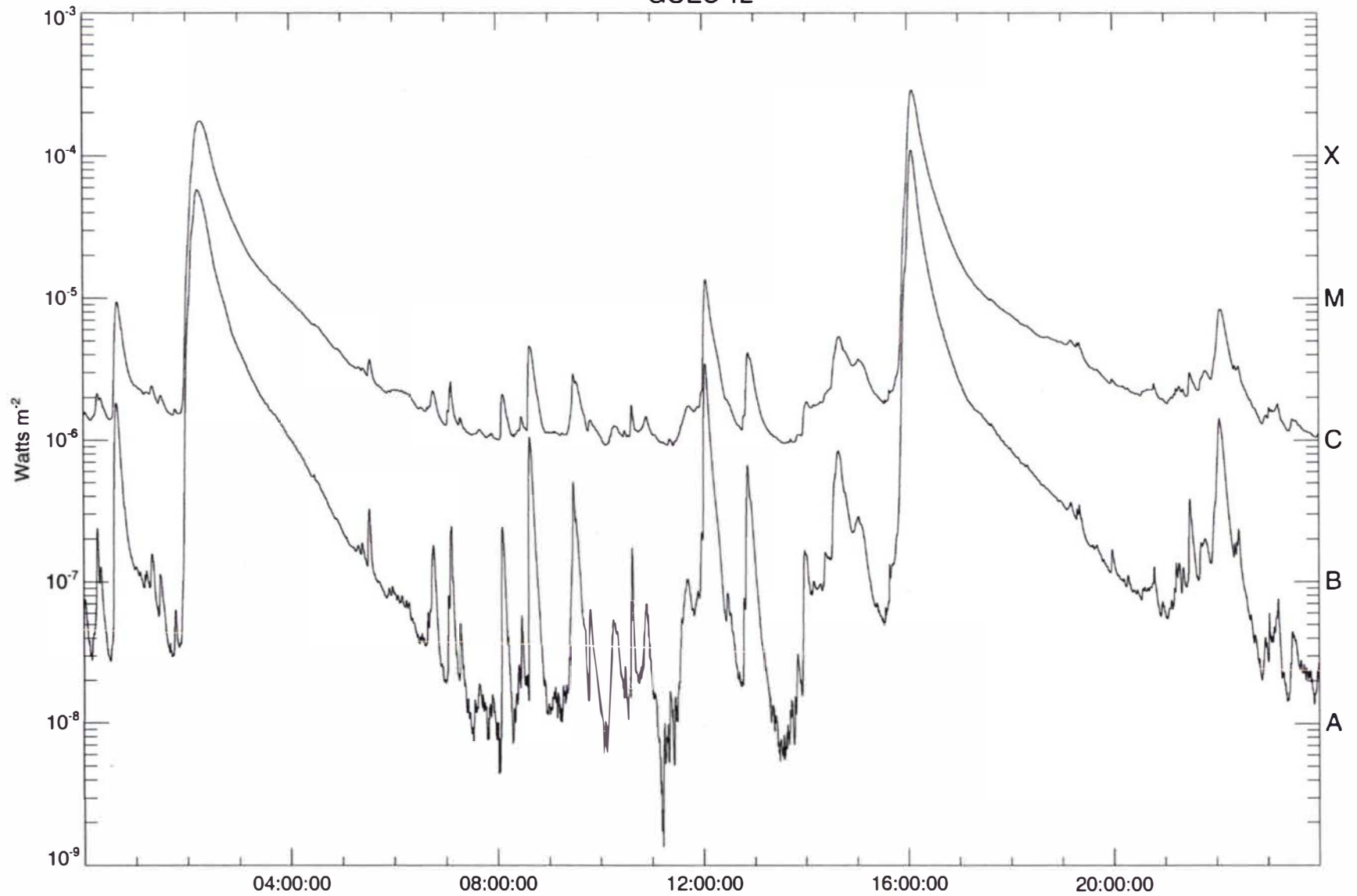
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130513_1557_bat64ms_ipn	87.0 KB
/tmp/130513_1557.png	5.5 KB

GOES 12



Data Start: 13/05/13, 0000:12

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 13/05/16, 0830

Sample average = 10

KONUS2

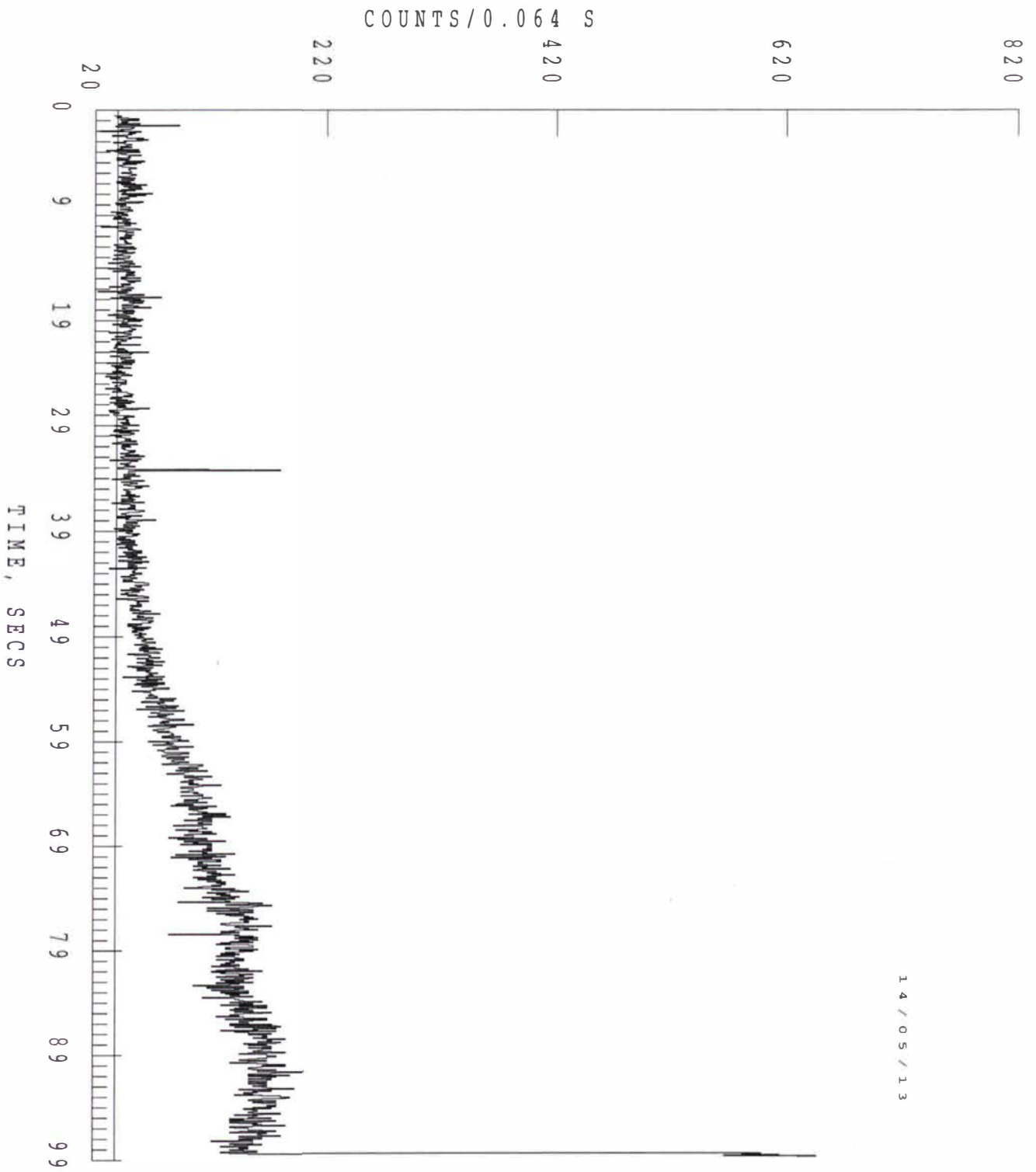
14/05/13

3920.916

A

50 - 200 keV

Solar



A

KONUS HRES 20130514 03919

TRIGGER TIME: 14/05/13 DOY 134 Julian 2456427.54537 UT = 01.089 01:05:19 (03920.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

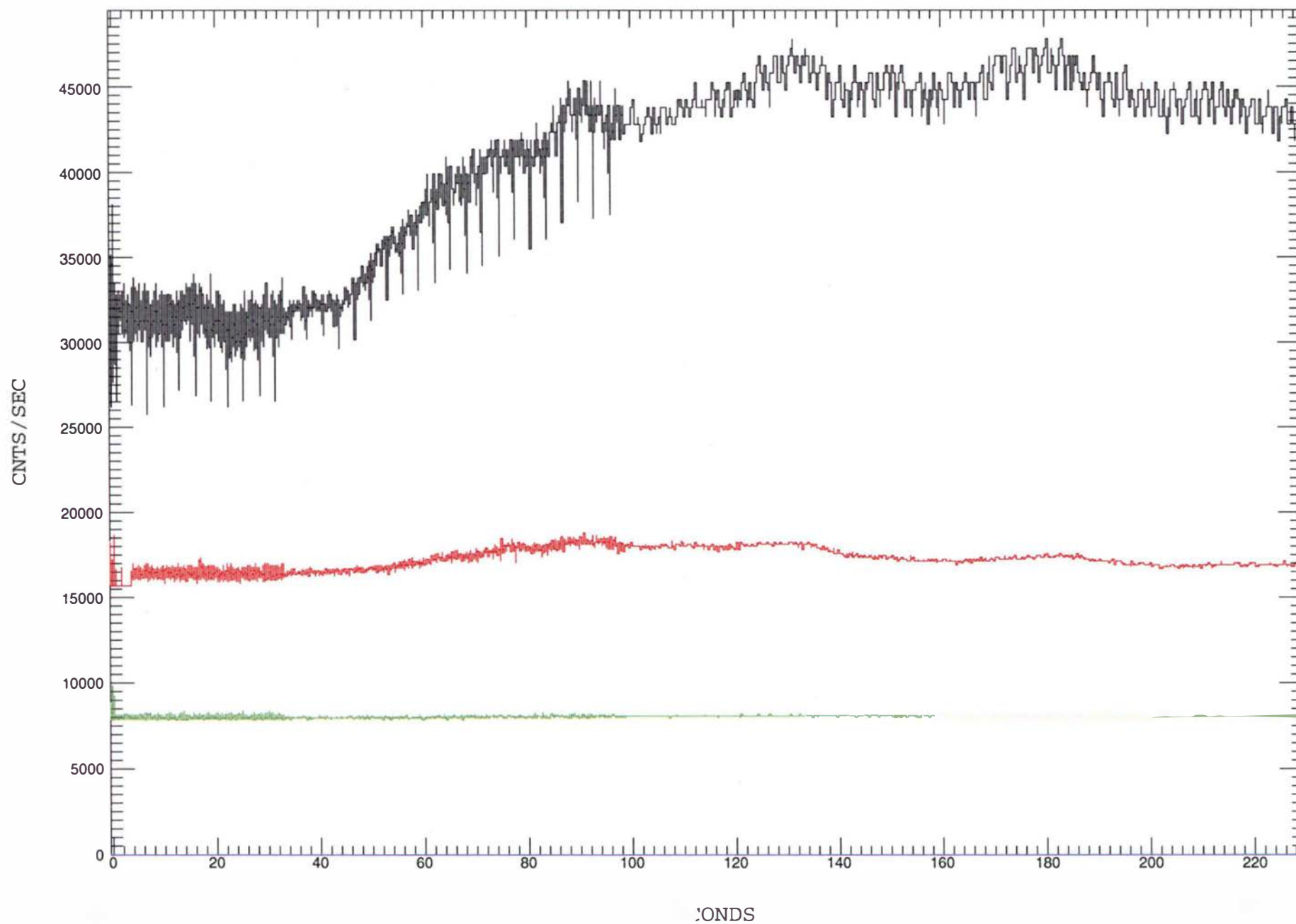
Chan 4 : [> 10 MeV]

Channel 1 + 23700

Channel 2 + 15800

Channel 3 + 7900

Channel 4 + 0



A

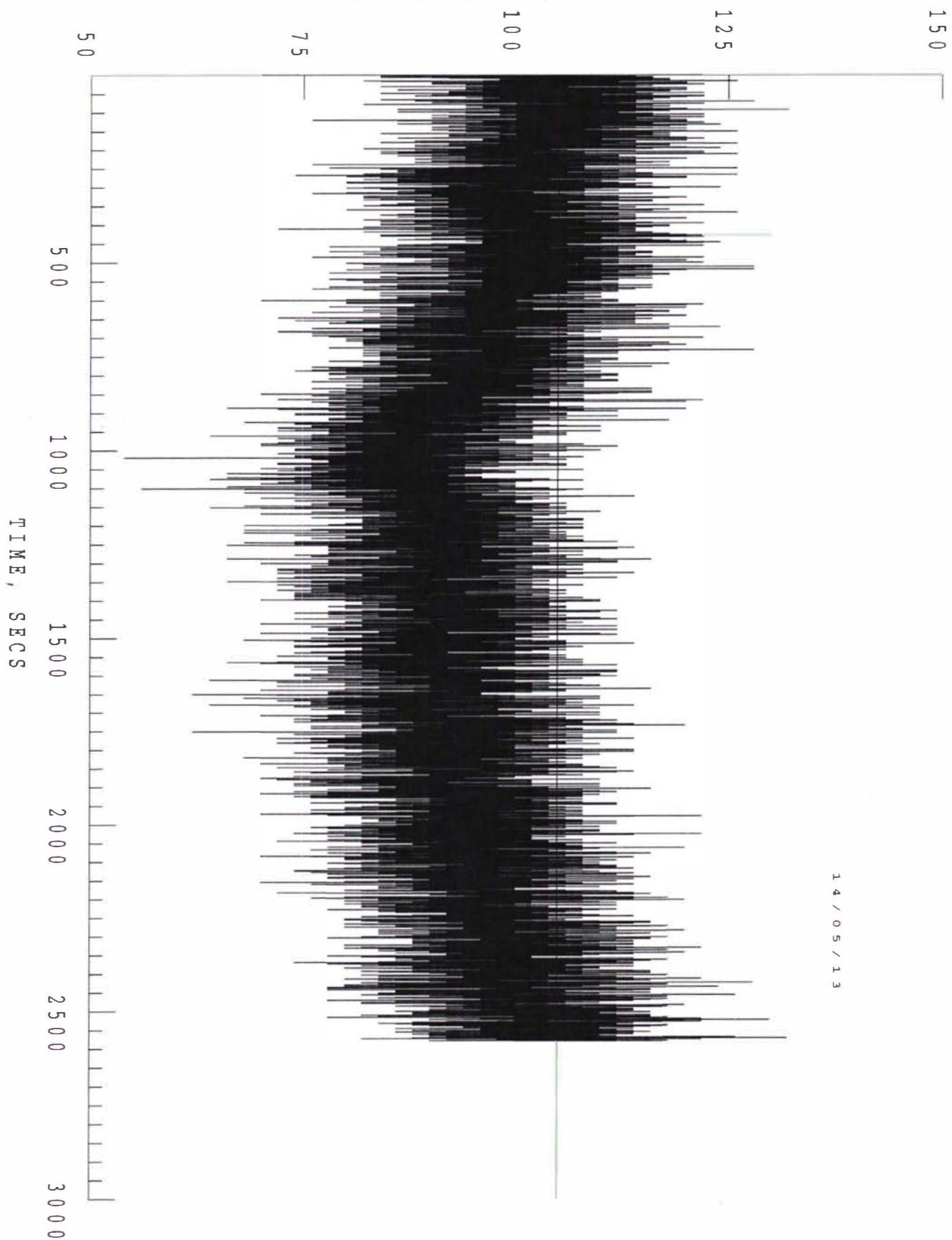
MS01

14/05/13

2611.232

50 - 3000 keV

COUNTS/0.250 S



A

From williams@gammaburst.ssl.berkeley.edu Sun May 19 23:01:57 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
"-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Sun, 19 May 2013 23:01:56 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20130514_03920
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 19-May-2013 23:00:41.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [Ipn] BAT lightcurve for trigger at 130514_0105

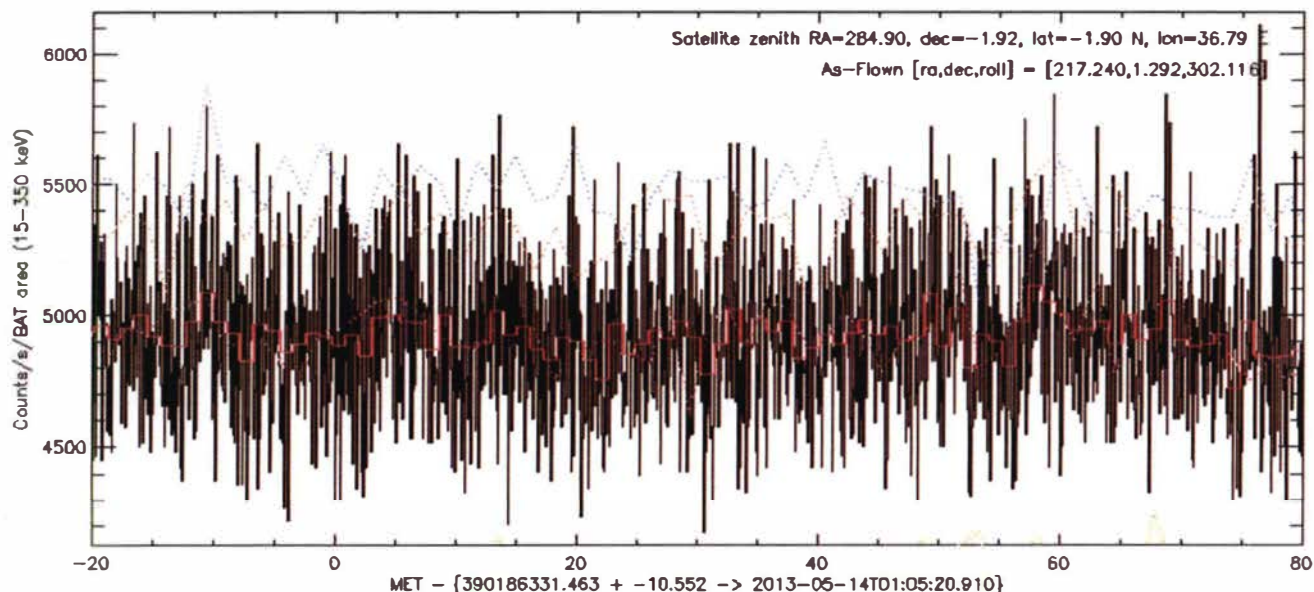
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/14/2013 10:21 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130514_0105.png



```
% /usr/local/bin/swinfo -o 390186331.462
Time(MET + UTC -> UT): 390186331.463 + -10.552 -> 2013-05-14T01:05:20.910
YYMMDD_SOD: 130514_03920.910 DOY=134
Swift Zenith(RA,dec): 284.90, -1.92
Swift Location(lon,lat,alt): 36.79 E, -1.90 N, 568 km
Obs Sequence Number: 00091700021
Obs Target Name: PG 1426+015
Obs Date and Times: 2013-05-14 00:45:51 - 01:08:47
Obs Pointing(ra,dec,roll): 217.240, 1.292, 302.12
```

David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130514_0105_bat64ms_ipn

87.1 KB

/tmp/130514_0105.png

20.5 KB

Subject: [Ipn] BAT lightcurve for trigger at 130514_0122

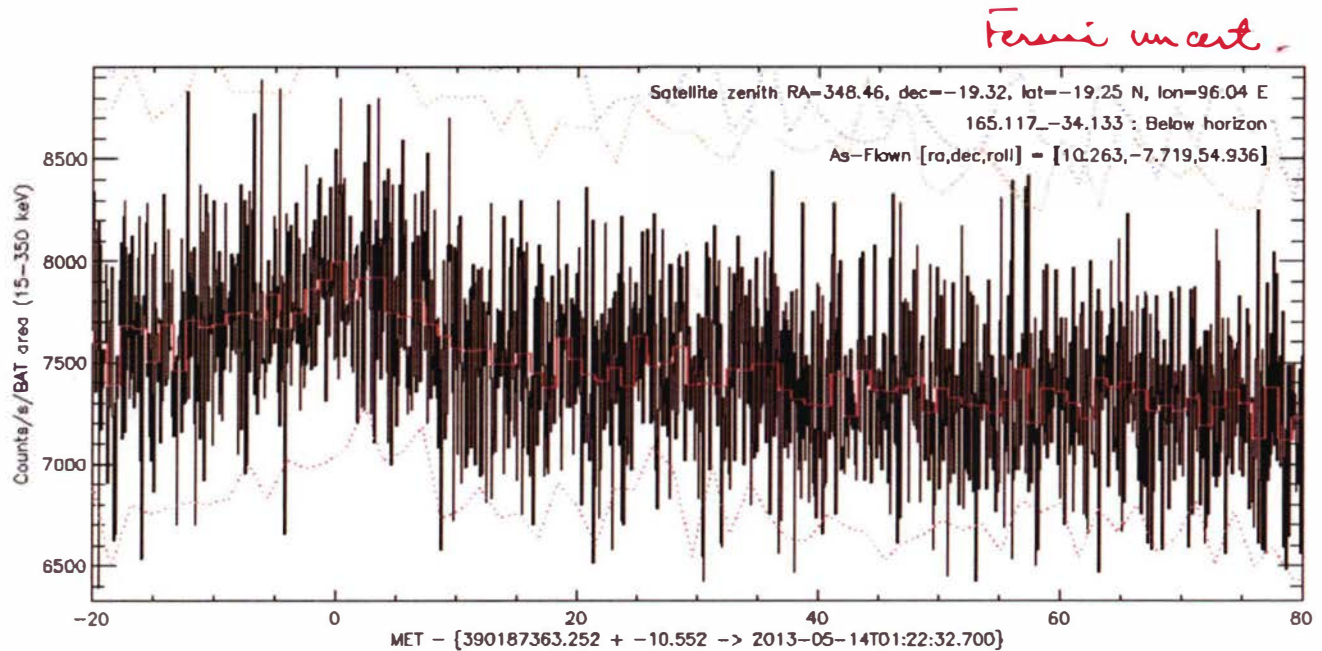
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/14/2013 1:55 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130514_0122.png



```
% /usr/local/bin/swinfo -o 390187363.252 -s 165.117_-34.133
Time(MET + UTCF -> UT): 390187363.252 + -10.552 -> 2013-05-14T01:22:32.700
YYMMDD_SOD: 130514_04952.700 DOY=134
Swift Zenith(RA,dec): 348.46, -19.32
Swift Location(lon,lat,alt): 96.04 E, -19.25 N, 579 km
Obs Sequence Number: 00049405001
Obs Target Name: RX J0040.9-0742
Obs Date and Times: 2013-05-14 01:18:51 - 01:28:46
Obs Pointing(ra,dec,roll): 10.263, -7.719, 54.94
165.117_-34.133_imageloc (boresight_dist, angle): (132, 7)
165.117_-34.133_exposure (cm2 cos adjusted): 0
165.117_-34.133_altitude: -13 (down)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130514_0122.png

17.5 KB

/tmp/130514_0122_bat64ms_ipn

87.0 KB

SUZAKU

14/05/13

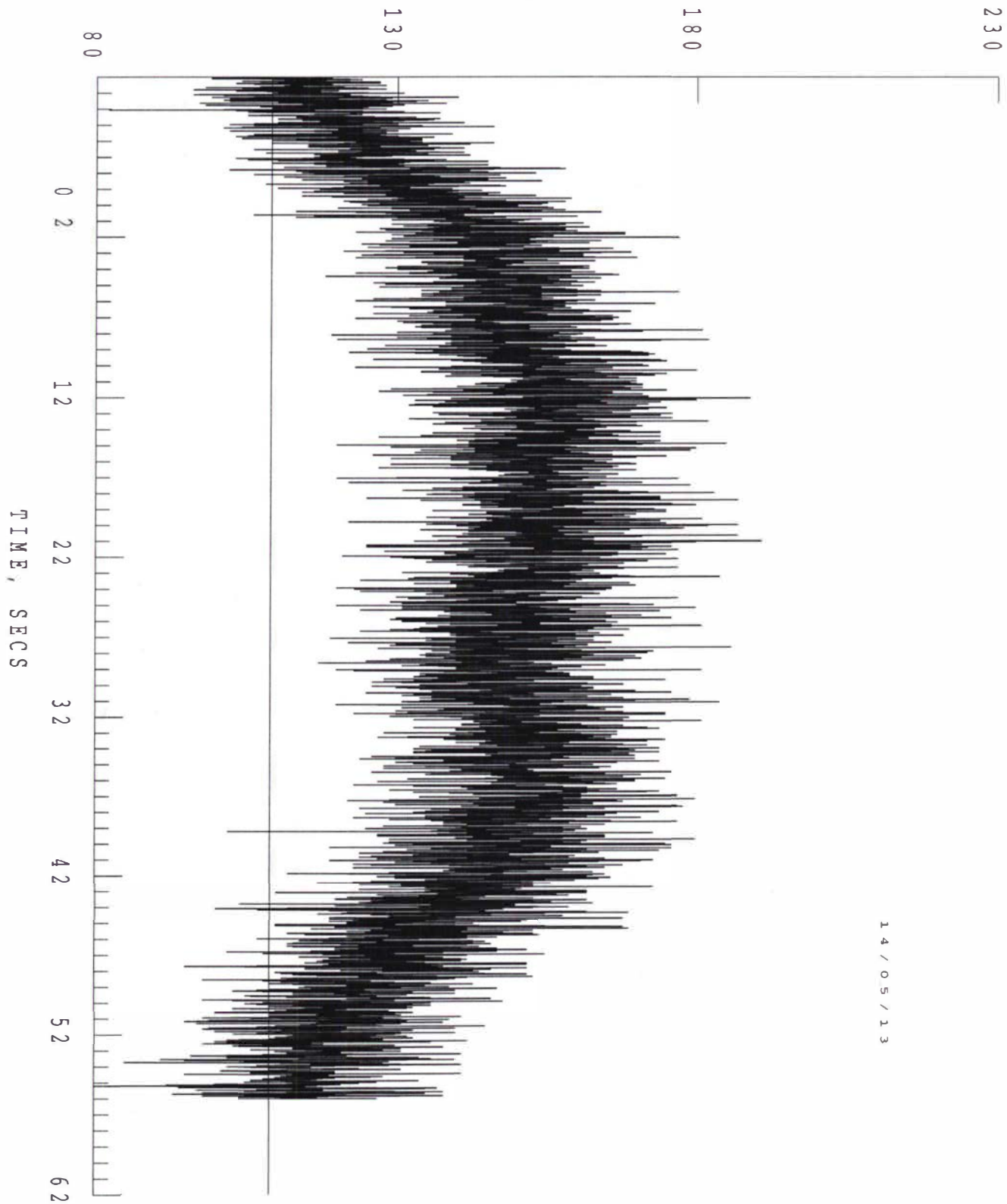
7550.696

02:05:50

50 - 240 keV

Prob solar

COUNTS/0.016 S



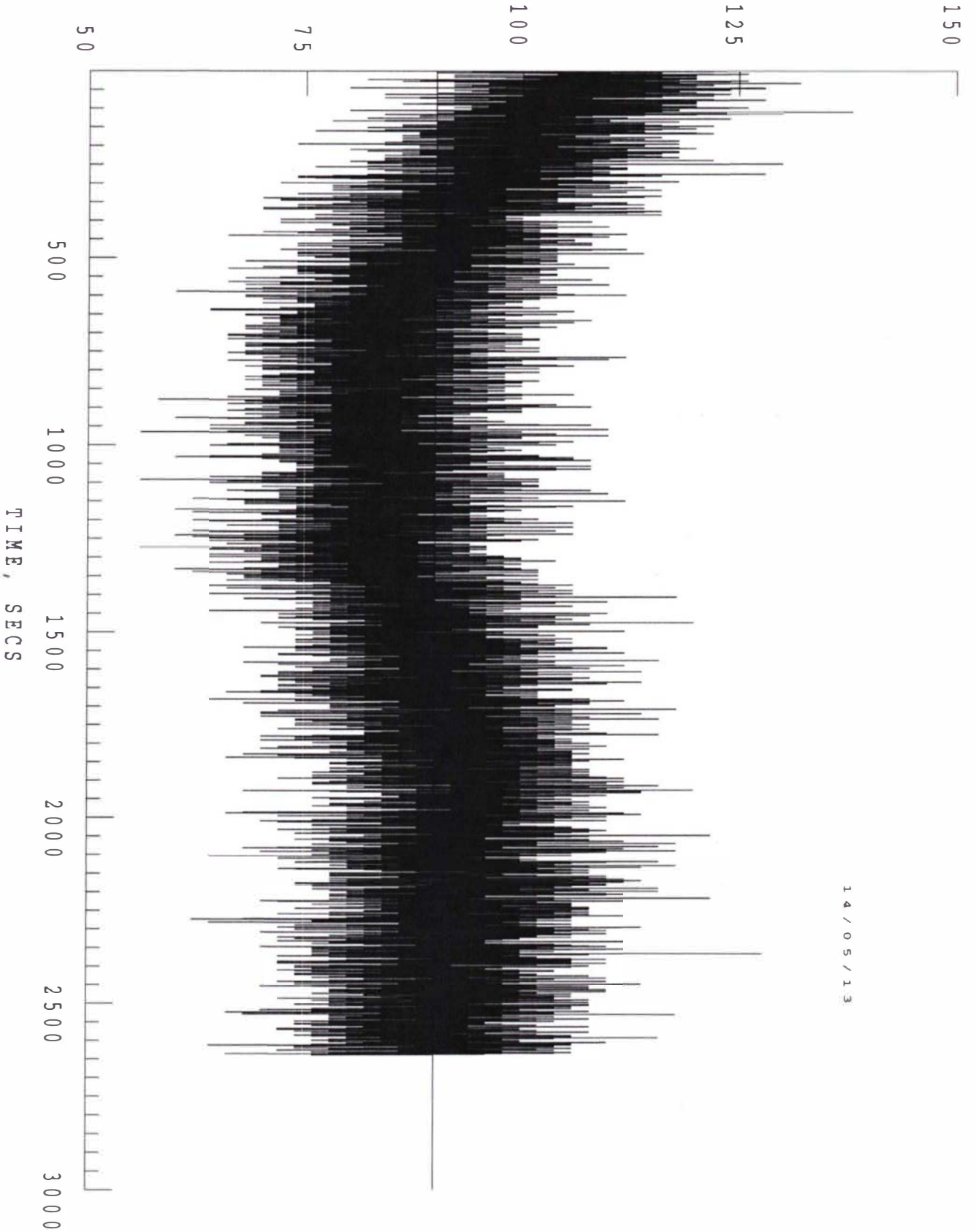
MS01

14/05/13

6211.171

50 - 3000 keV

COUNTS/0.250 S



HESSI

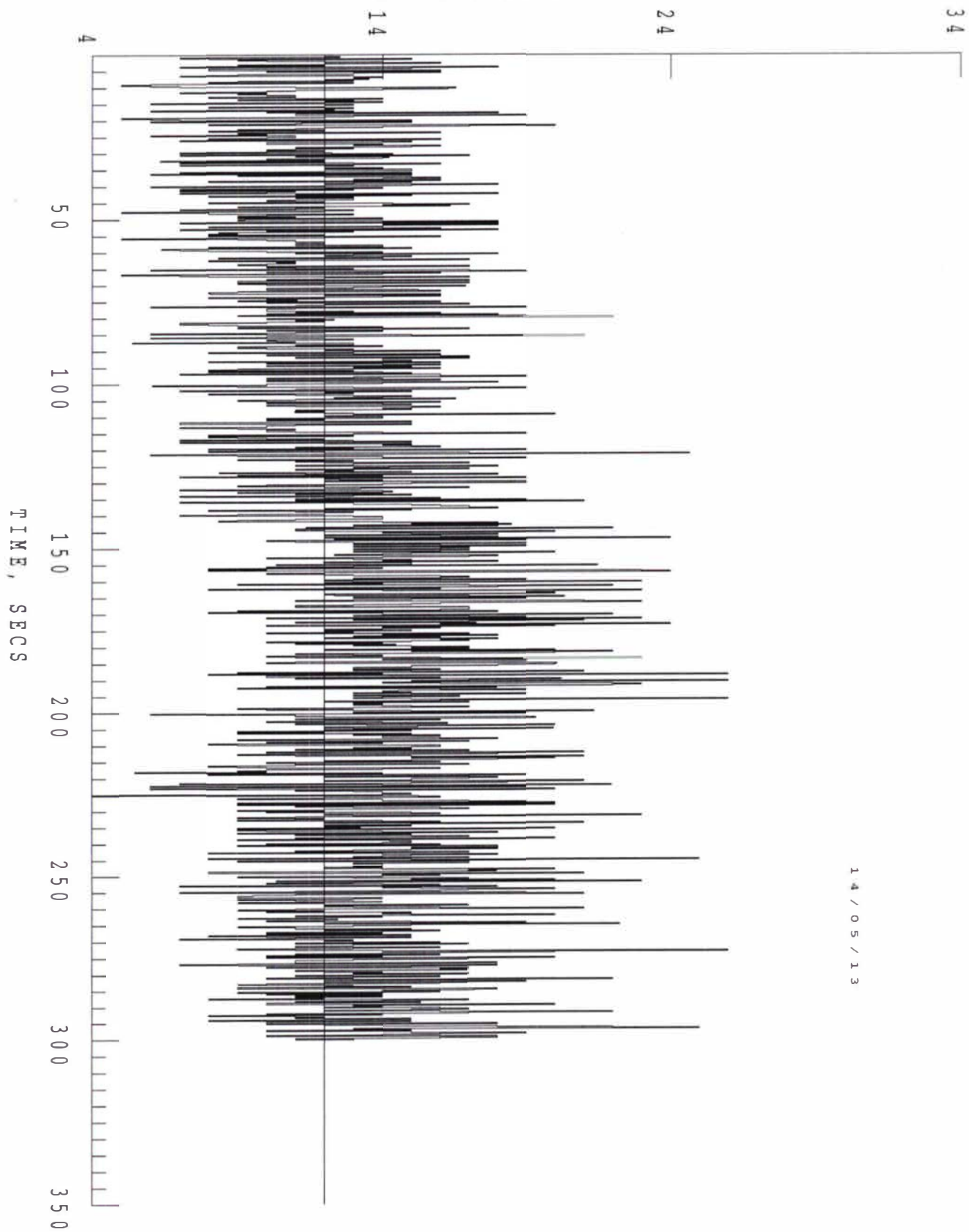
14/05/13

7400.000

(SUZAKU_20130514_07550)

25- 150 keV

COUNTS/0.250 S



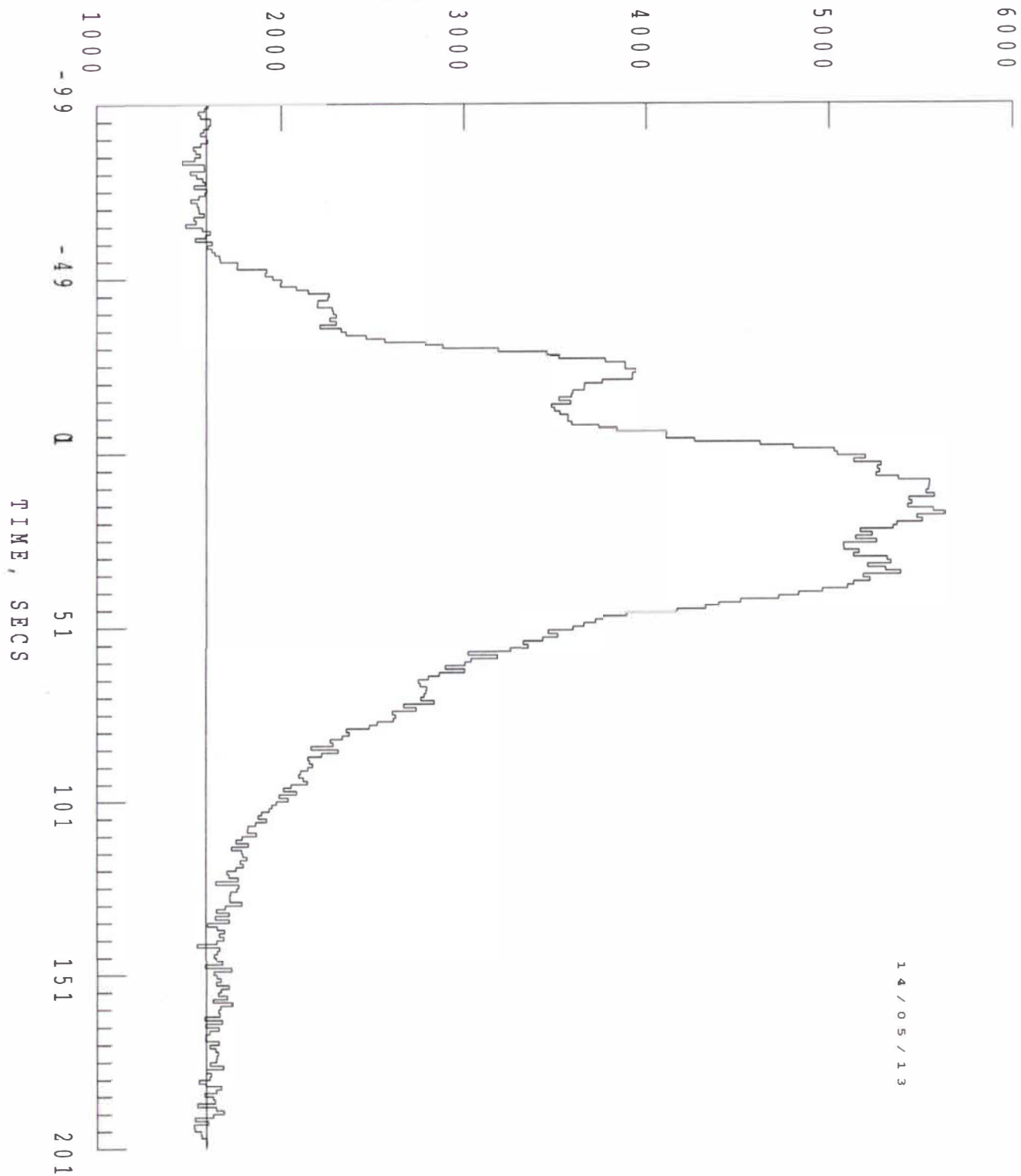
SUZAKU

14/05/13

7551.698

50 - 240 keV

COUNTS/1.000 S



14/05/13

Subject: [Ipn] BAT lightcurve for trigger at 130514_0205

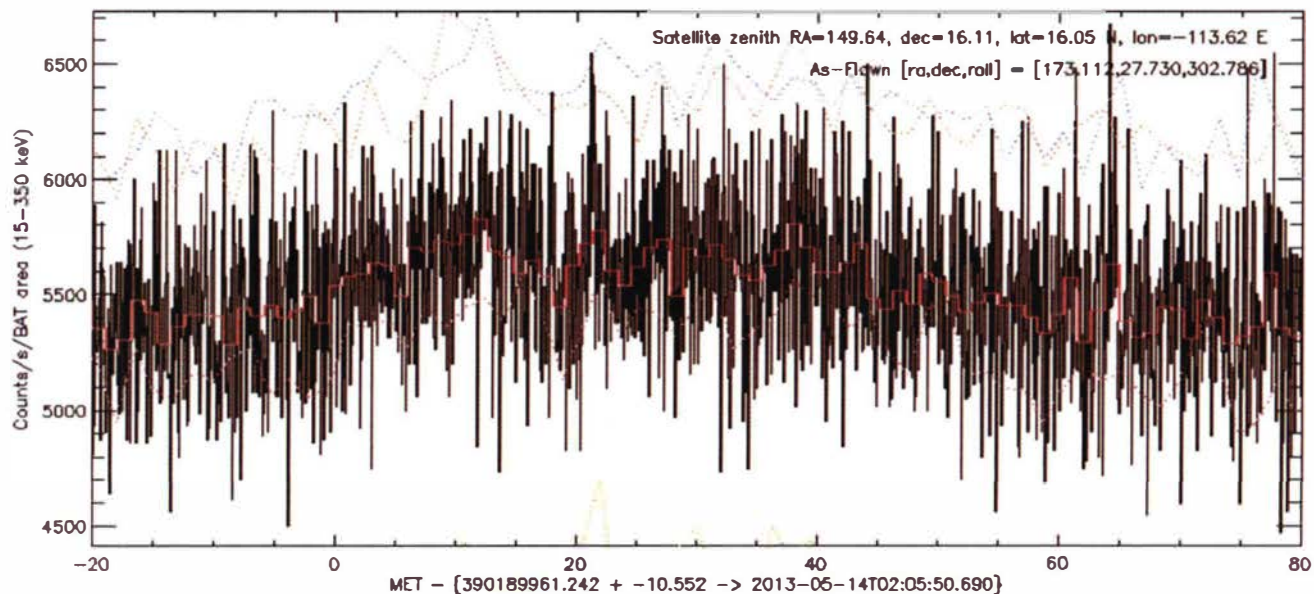
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/14/2013 9:33 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130514_0205.png



```
% /usr/local/bin/swinfo -o 390189961.242
Time(MET + UTCF -> UT): 390189961.242 + -10.552 -> 2013-05-14T02:05:50.690
YYMMDD_SOD: 130514_07550.690 DOY=134
Swift Zenith(RA,dec): 149.64, 16.11
Swift Location(lon,lat,alt): -113.62 E, 16.05 N, 576 km
Obs Sequence Number: 00554620053
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-14 01:51:51 - 02:21:47
Obs Pointing(ra,dec,roll): 173.112, 27.730, 302.79
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130514_0205_bat64ms_ipn	87.1 KB
/tmp/130514_0205.png	19.7 KB

B

From vxw@capella2.gsfc.nasa.gov Tue May 14 00:21:26 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Tue, 14 May 2013 03:21:24 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

204 s

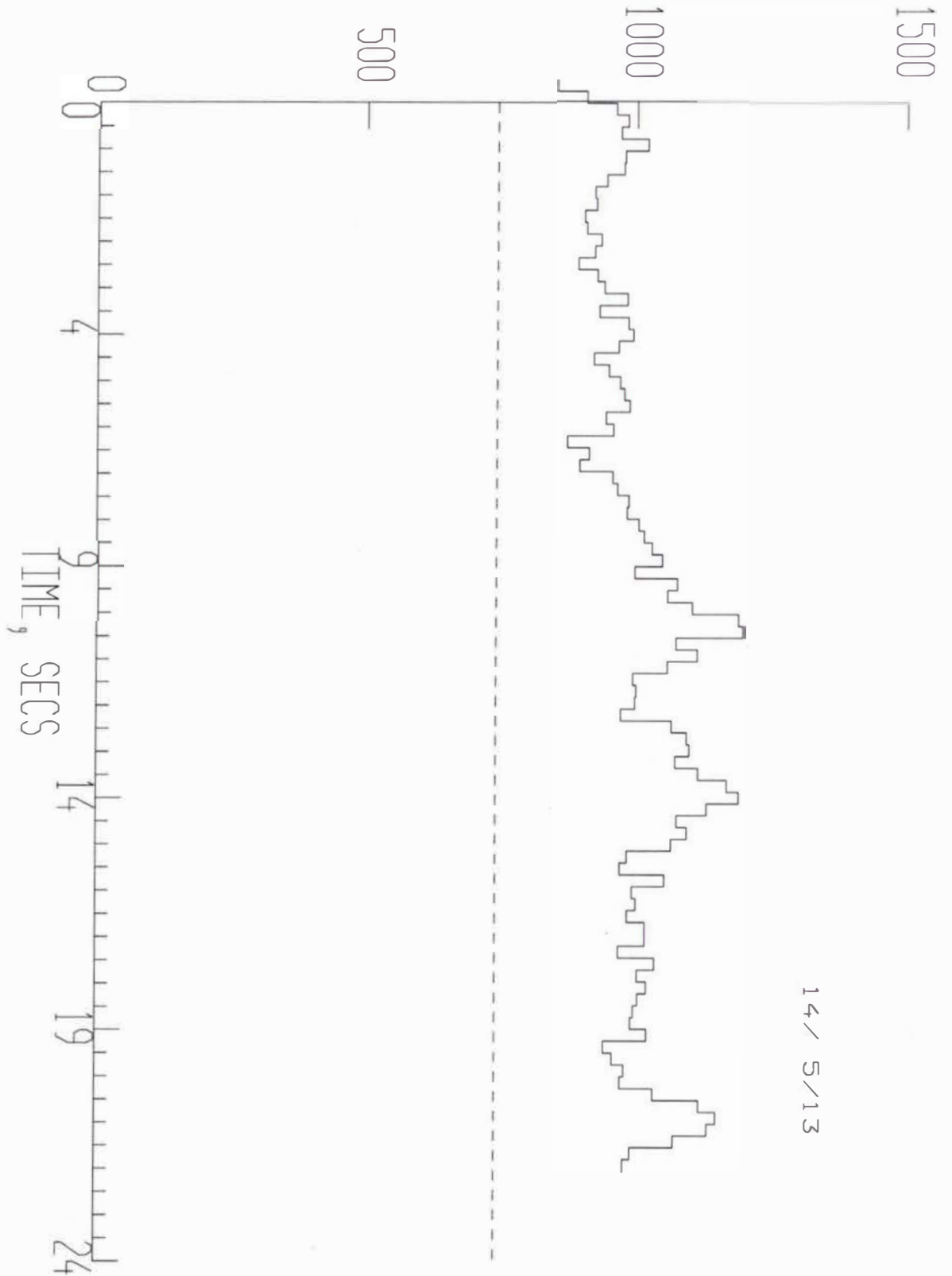
$9.1 \times 10^{-6} \text{ erg cm}^{-2}$

2.8 phot/cm² s

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Tue 14 May 13 07:20:59 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 11314231, Seg_Num: 67
GRB_RA: 296.274d {+19h 45m 06s} (J2000),
296.454d {+19h 45m 49s} (current),
295.598d {+19h 42m 23s} (1950)
GRB_DEC: -7.956d {-07d 57' 20"} (J2000),
-7.923d {-07d 55' 21"} (current),
-8.078d {-08d 04' 39"} (1950)
GRB_DATE: 16426 TJD; 134 DOY; 13/05/14
GRB_TIME: 26021.06 SOD {07:13:41.06} UT
TRIGGER_INDEX: 146
GRB_PHI: -142.31 [deg]
GRB_THETA: 35.08 [deg]
DELTA_TIME: -18643.00 [sec]
TRIGGER_DUR: 1.024 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 0.00 [sigma]
IMAGE_SIGNIF: 0.00 [sigma]
URL: sw00555821000msb.lc
SUN_POSTN: 51.28d {+03h 25m 08s} +18.69d {+18d 41' 17"}
SUN_DIST: 115.99 [deg] Sun_angle= 7.7 [hr] (West of Sun)
MOON_POSTN: 101.04d {+06h 44m 09s} +18.73d {+18d 43' 46"}
MOON_DIST: 161.54 [deg]
MOON_ILLUM: 16 [%]
GAL_COORDS: 31.84, -15.52 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 296.75, 13.08 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS: WARNING: No BAT_Position TDRSS message was received for this tr
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 = 245.58,16.47 [deg]
COMMENTS: The 3rd packet (of 3) was missing in the lightcurve data stream

SWIFT 14/05/13 26021.063
25- 100 keV

COUNTS/0.256 S



14/ 5/13

B

MS01

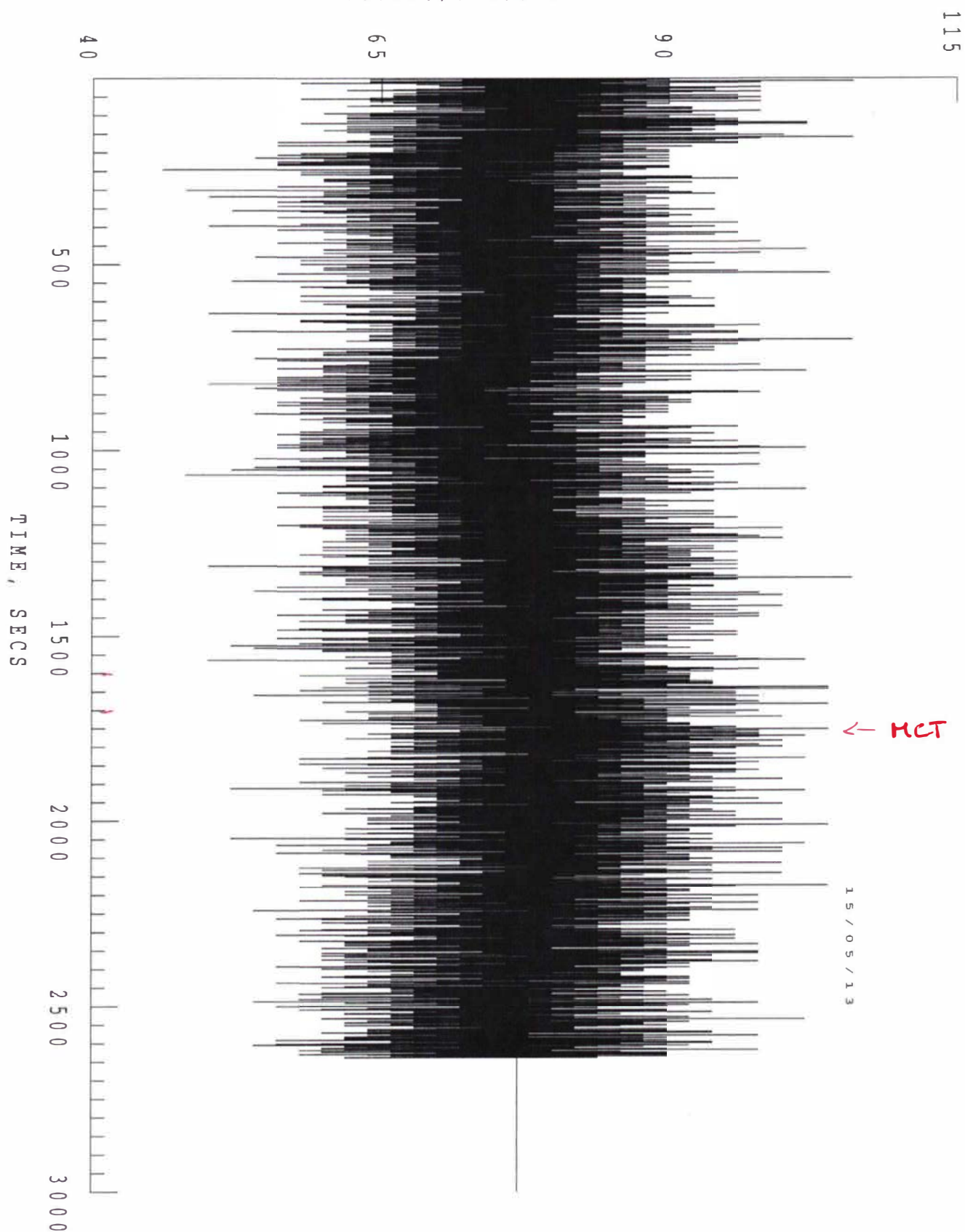
14/05/13

24690.869

50 - 3000 keV

Occulted

COUNTS/0.250 S

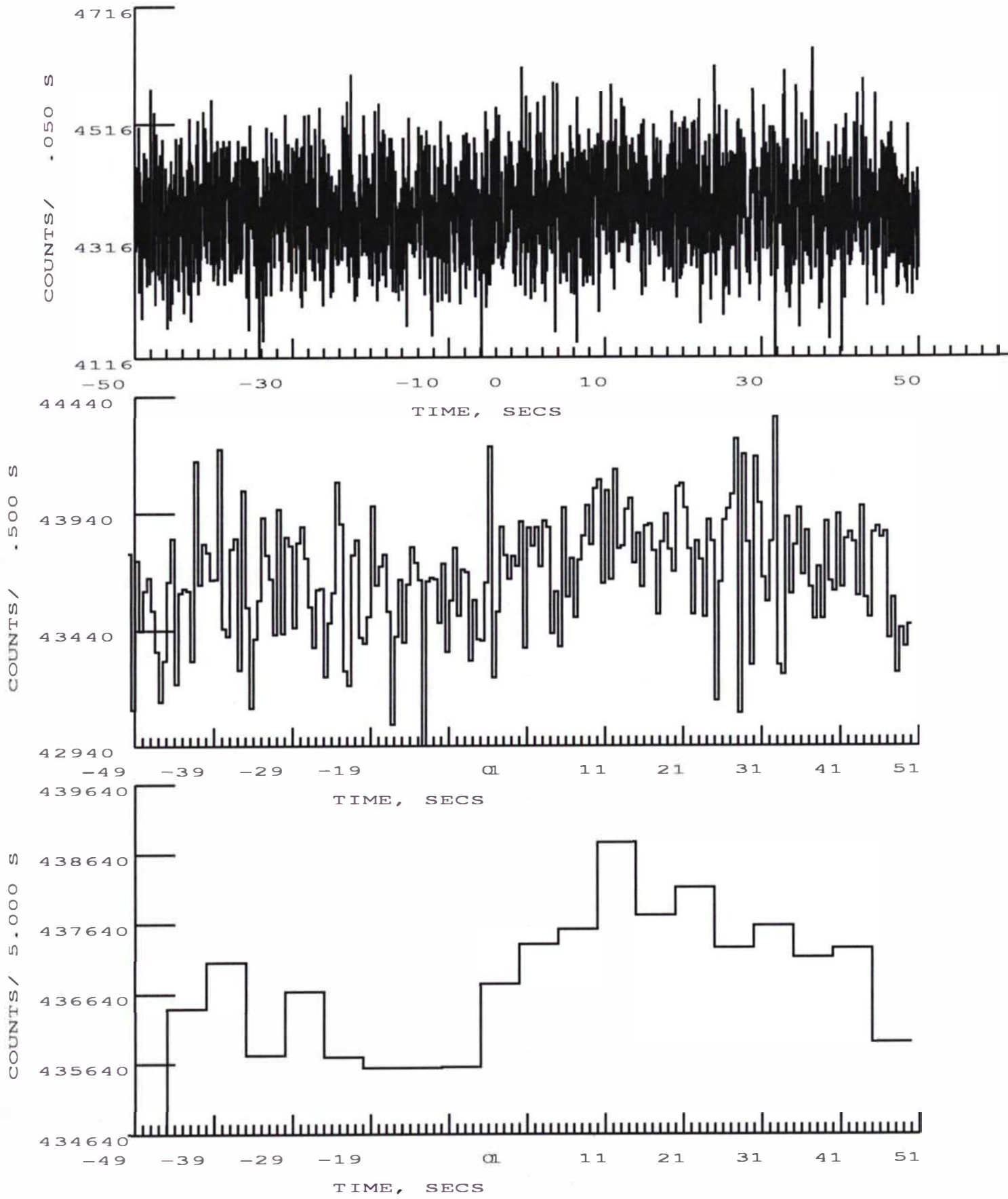


B

From williams@gammaburst.ssl.berkeley.edu Tue May 14 03:56:53 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Tue, 14 May 2013 03:56:52 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SWIFT_20130514_26021
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 14-May-2013 03:55:37.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

B



From gcncirc@capella2.gsfc.nasa.gov Tue May 14 07:56:06 2013
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 130514B: a long GRB detected by INTEGRAL
To: khurley@ssl.berkeley.edu
Date: Tue, 14 May 2013 10:56:04 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

TITLE: GCN CIRCULAR
NUMBER: 14638
SUBJECT: GRB 130514B: a long GRB detected by INTEGRAL
DATE: 13/05/14 14:56:00 GMT
FROM: Sandro Mereghetti at IASF/CNR <sandro@iasf-milano.inaf.it>

S.Mereghetti (IASF-Milano), D.Gotz (CEA, Saclay), C.Ferrigno, E.Bozzo, E.Filippova (ISDC, Versoix), and J.Borkowski (CAMK, Torun) on behalf of the IBAS Localization Team report:

⁴⁸³⁹²
a gamma ray burst lasting about 10 s has been detected by IBAS in the IBIS/ISGRI data at 13:26:32 UT of May 14.

A preliminary analysis gives the coordinates (J2000)

R.A.= 147.604 deg
DEC.= -18.969 deg

with an uncertainty of 3 arcmin (90% c.l.).

The burst had a peak flux of about 1 counts/cm²/s (20-200 keV, 1-s integration time). Due to telemetry saturation we can only set a lower limit of 6x10⁻⁷ erg/cm² on the fluence in the same energy range.

A plot of the light curve has been posted at
http://ibas.iasf-milano.inaf.it/IBAS_Results.html



IBIS Light Curve

Short Description

Results

[INTEGRAL GRB Table](#)

[IBAS Alerts Page](#)

Updated in REAL TIME!

News

User Info :

[IBAS Alerts Distribution Systems](#)

[How to receive IBAS Alerts](#)

[Types of Alerts](#)

[Localization Accuracy](#)

[Sensitivity and GRB](#)

[Significance](#)

[Optical Monitoring Camera](#)

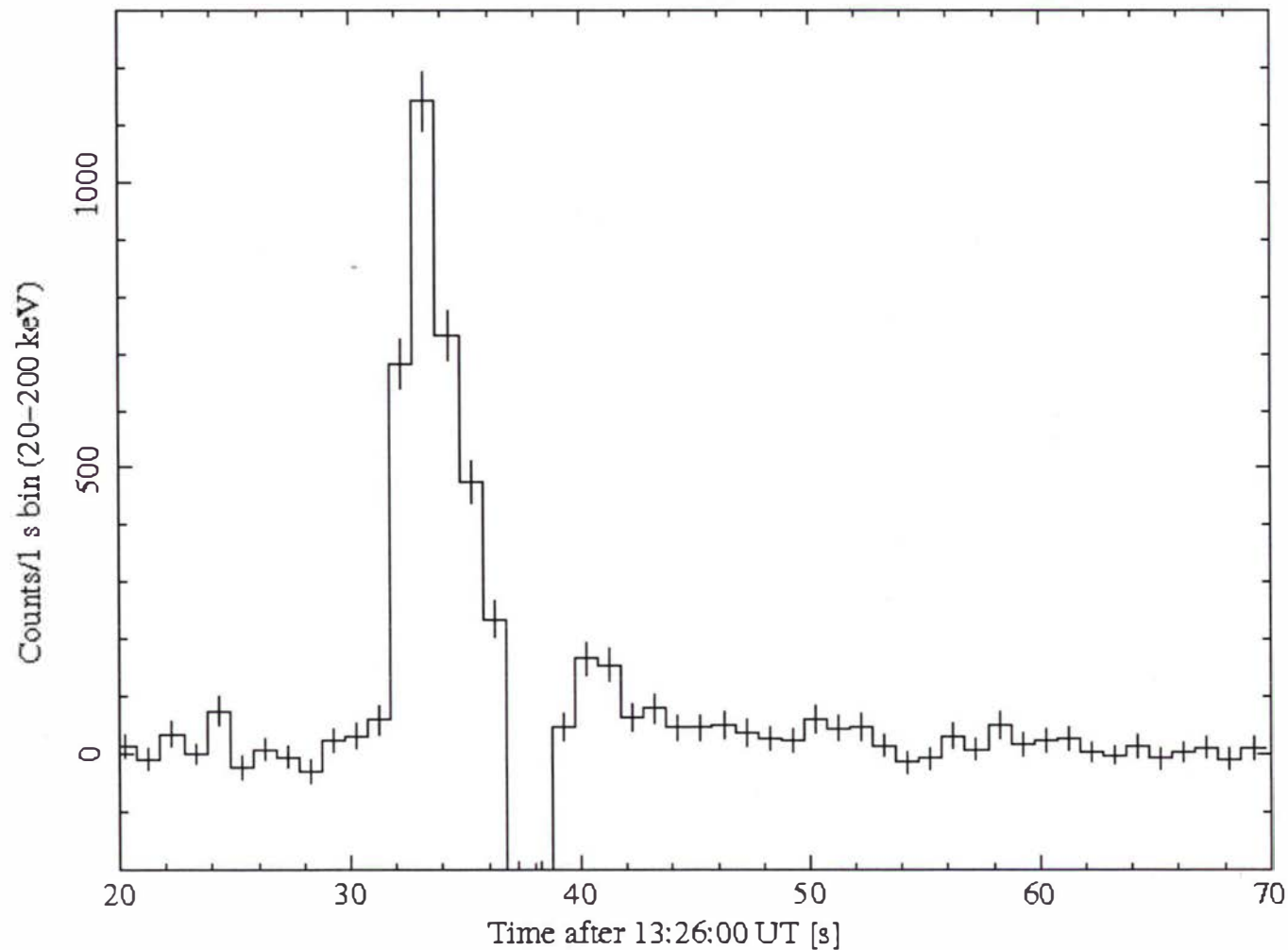
External Links :

[ISDC](#)

[INTEGRAL](#)

[ESA](#)

GRB 130514B – INTEGRAL IBIS Light Curve



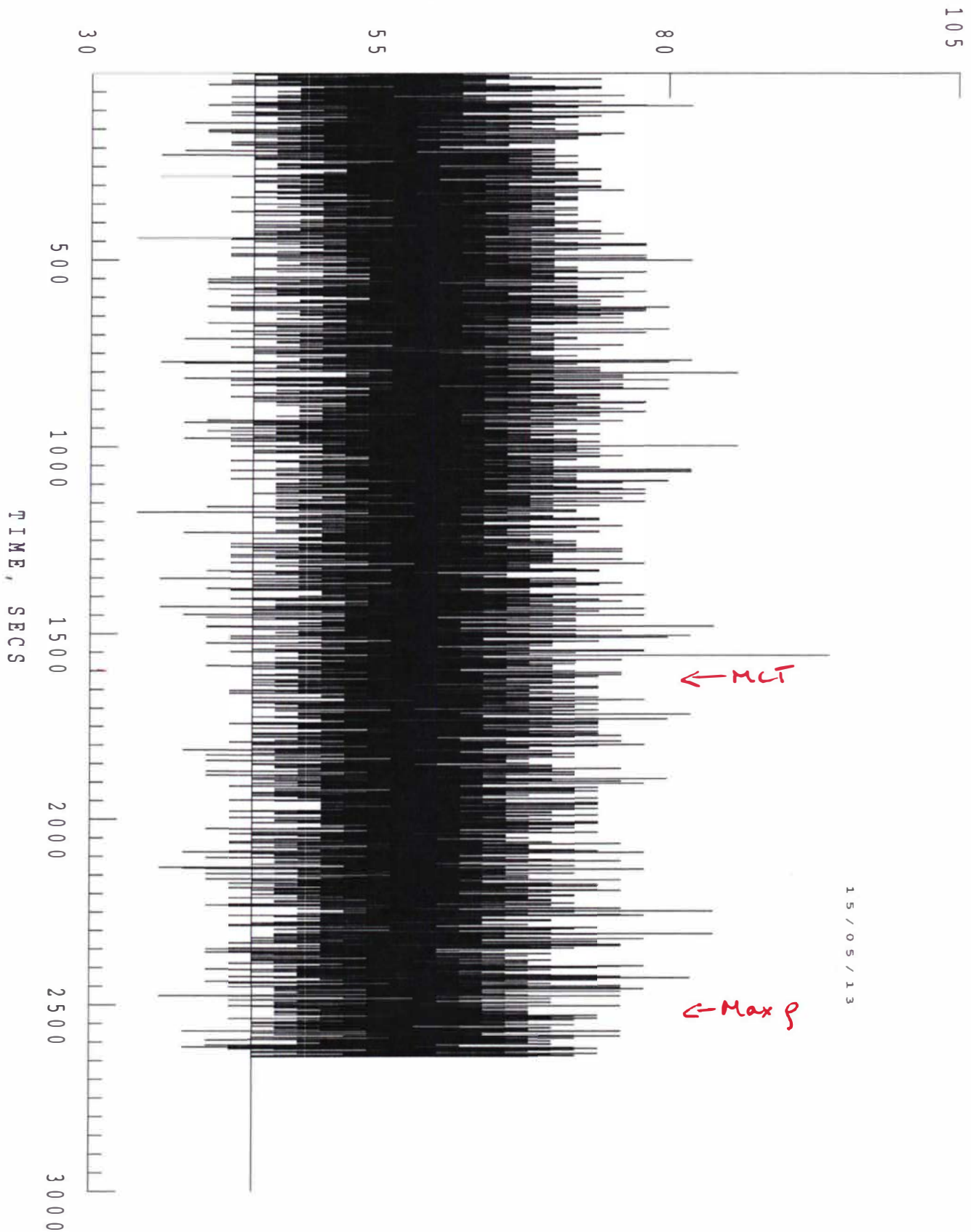
MS01

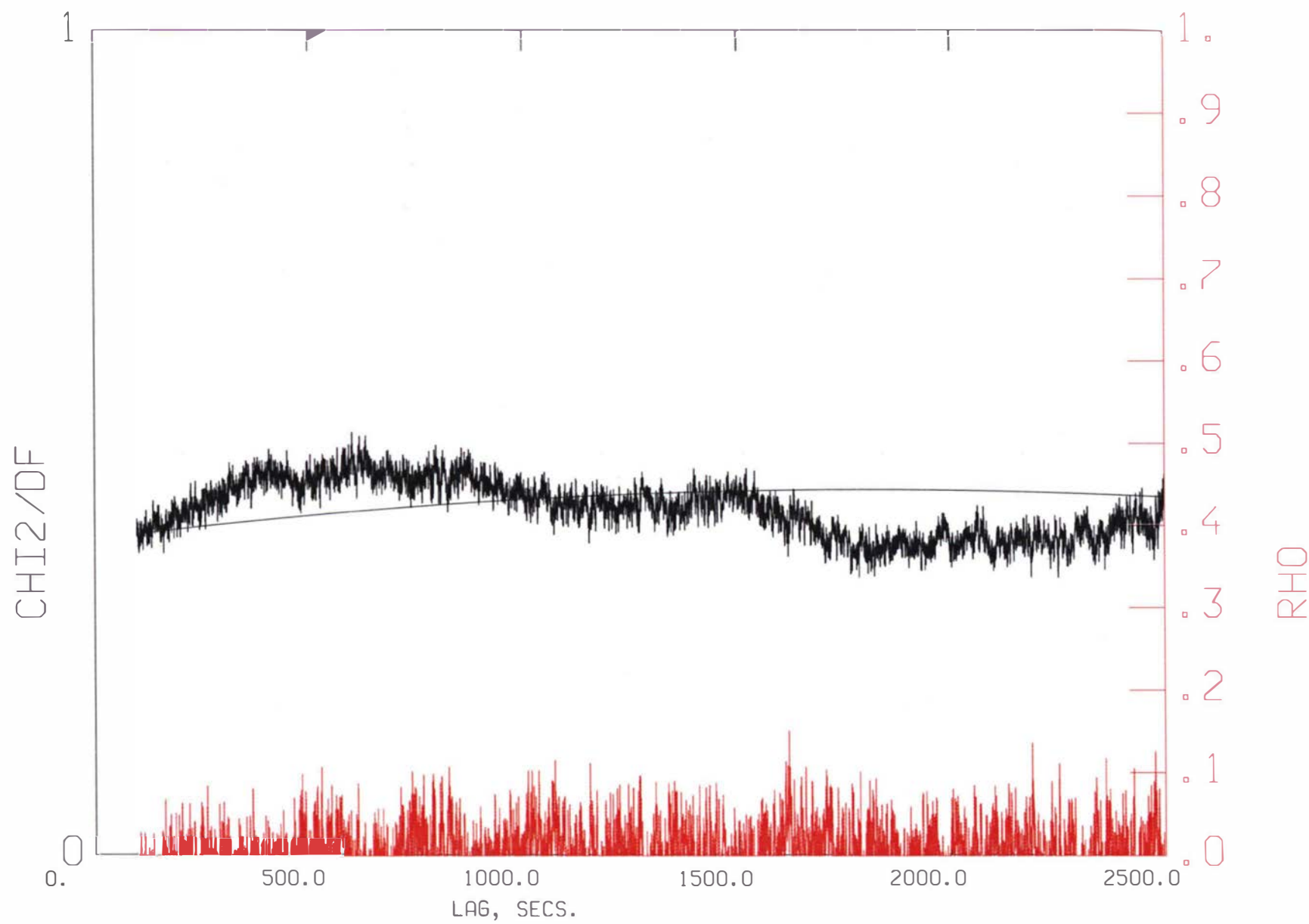
14/05/13

47070.493

50 - 3000 keV

COUNTS/0.250 S



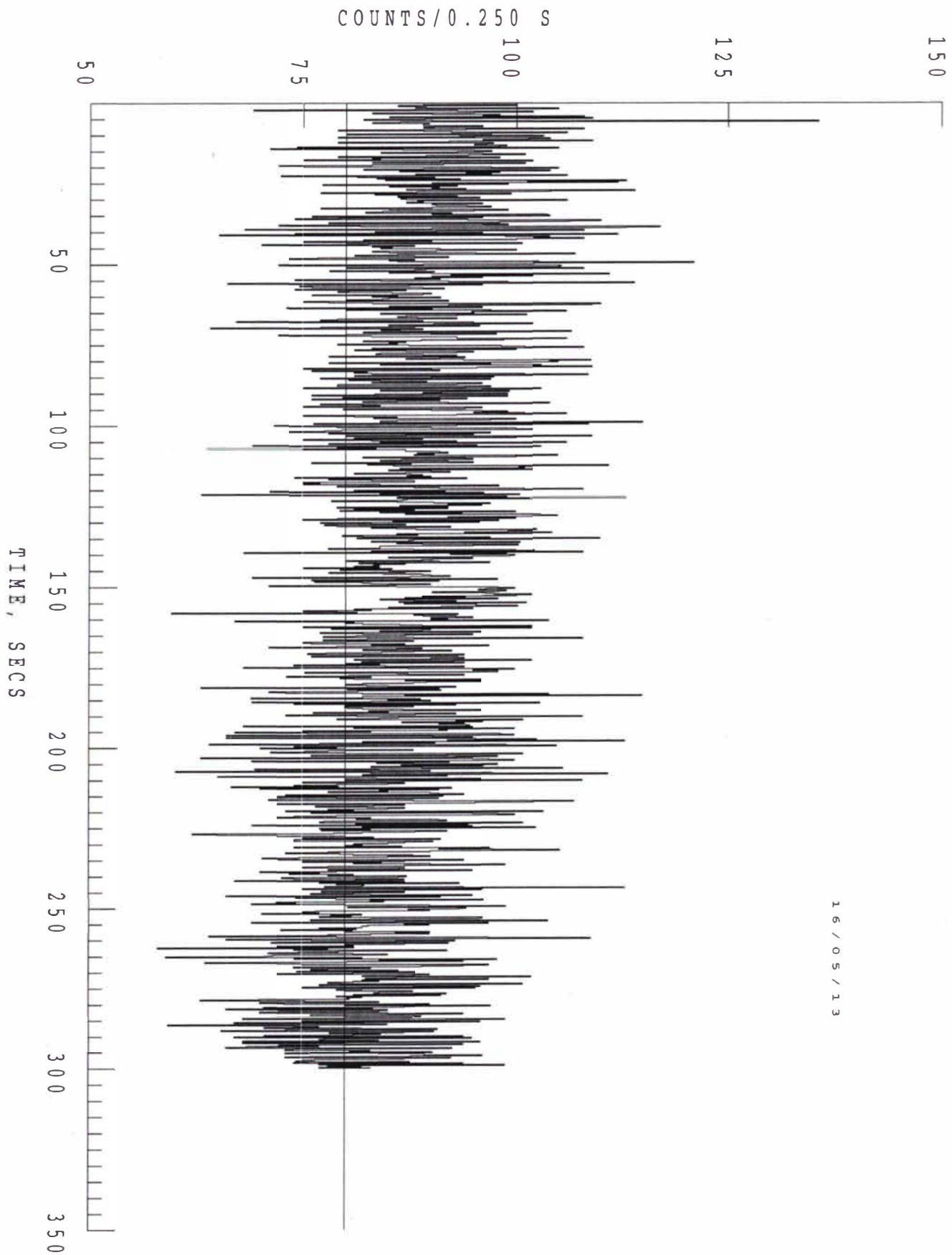


HESSI

14/05/13 48242.000 (GLAST_20130514_48392)

C

25- 150 keV

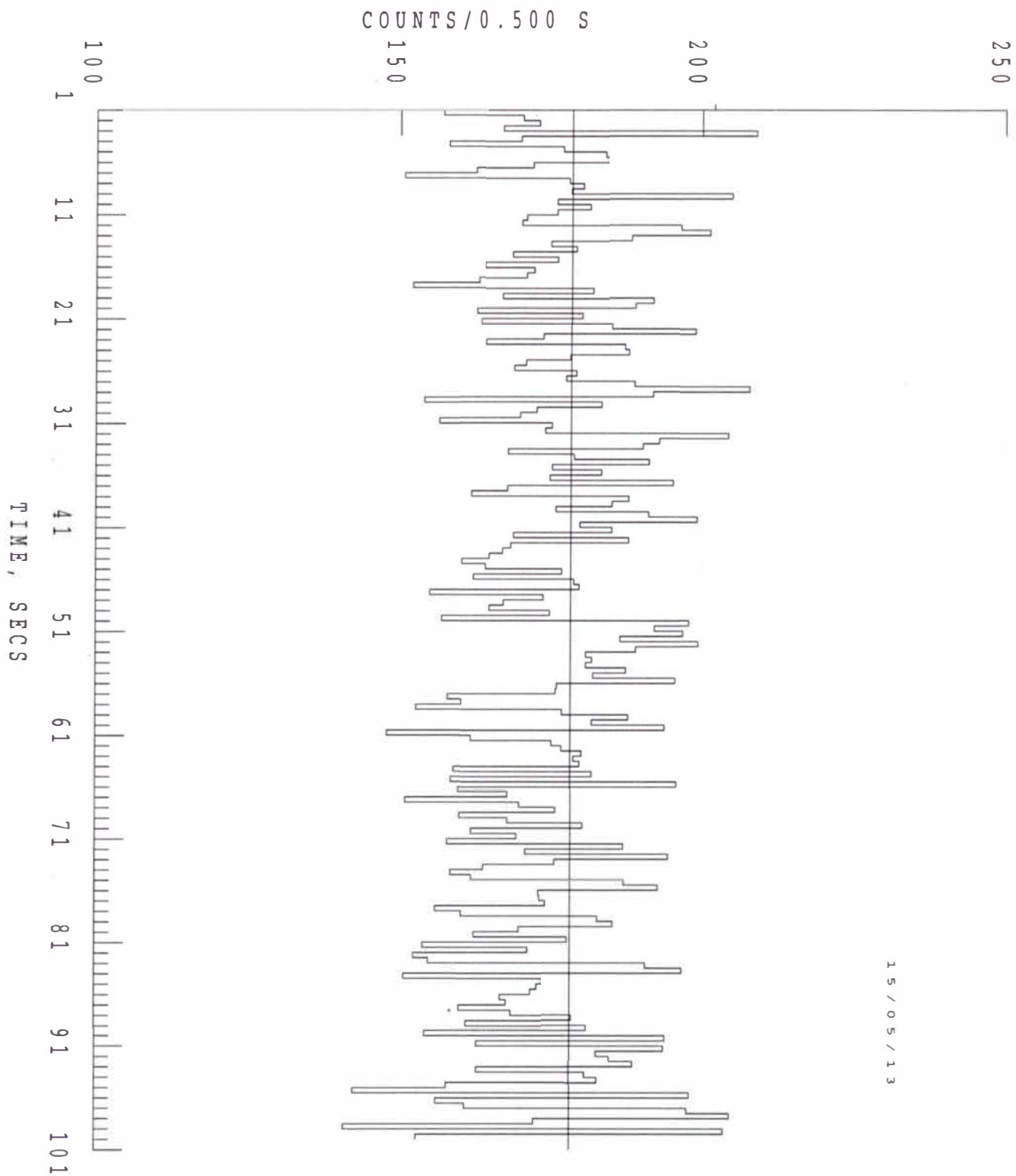


HESSI

14/05/13 48342.000 (integral_20130514_48392)

C

25- 150 keV



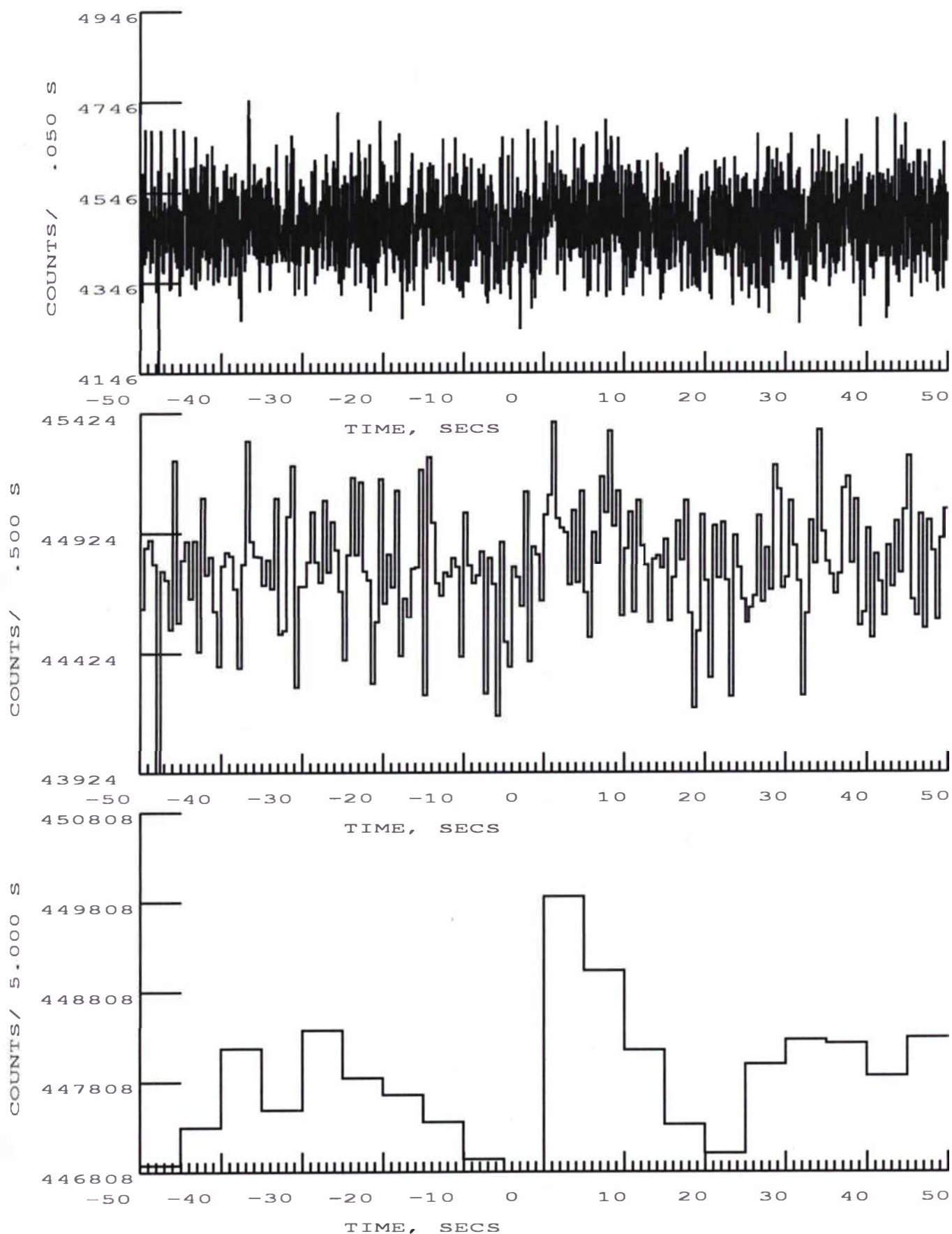
INTEGRAL

14/05/13

48392.000

13:26:32.0

25/10/13



C

Subject: [lpn] BAT lightcurve for trigger at 130514_1326

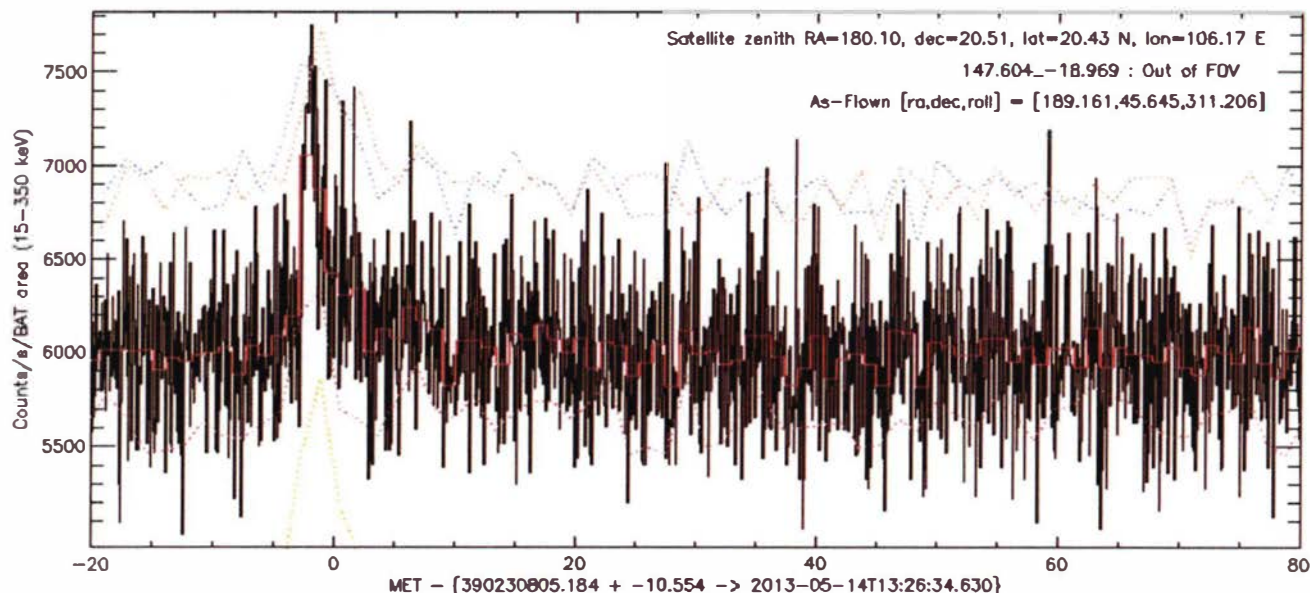
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/14/2013 5:55 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130514_1326.png



```
% /usr/local/bin/swinfo -o 390230805.184 -s 147.604_-18.969
Time(MET + UTCF -> UT): 390230805.184 + -10.554 -> 2013-05-14T13:26:34.630
YYMMDD_SOD: 130514_48394.630 DOY=134
Swift Zenith(RA,dec): 180.10, 20.51
Swift Location(lon,lat,alt): 106.17 E, 20.43 N, 571 km
Obs Sequence Number: 00030909010
Obs Target Name: MCG+08-23-067
Obs Date and Times: 2013-05-14 13:25:52 - 13:35:05
Obs Pointing(ra,dec,roll): 189.161, 45.645, 311.21
147.604_-18.969_imageloc (boresight_dist, angle): (75, 179)
147.604_-18.969_exposure (cm^2 cos adjusted): 0
147.604_-18.969_altitude: 63 (up)
```

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

lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130514_1326_bat64ms_ipn

87.0 KB

/tmp/130514_1326.png

18.8 KB

J

25/10/13

MESSENGER

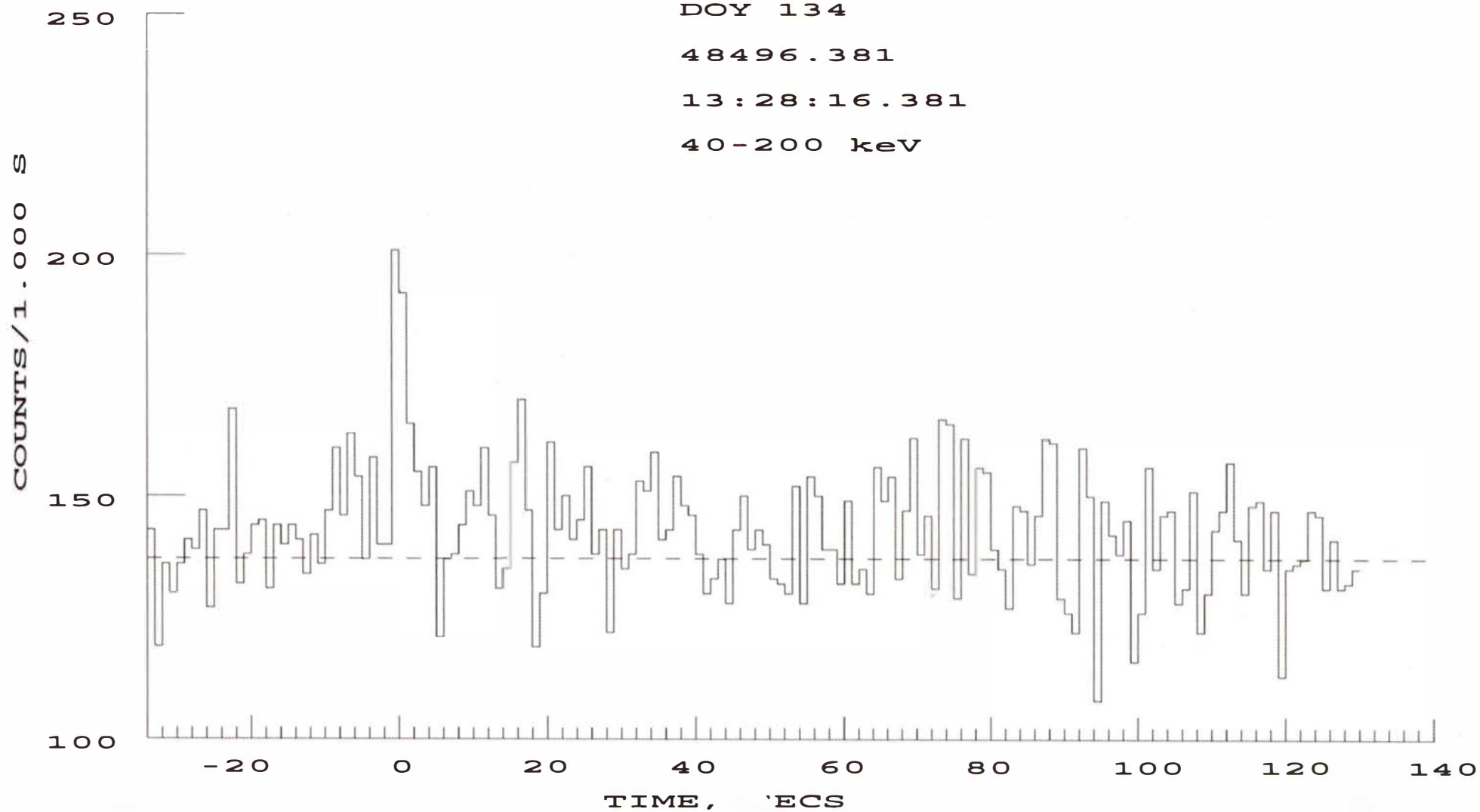
14/05/13

DOY 134

48496.381

13:28:16.381

40-200 keV



GLAST

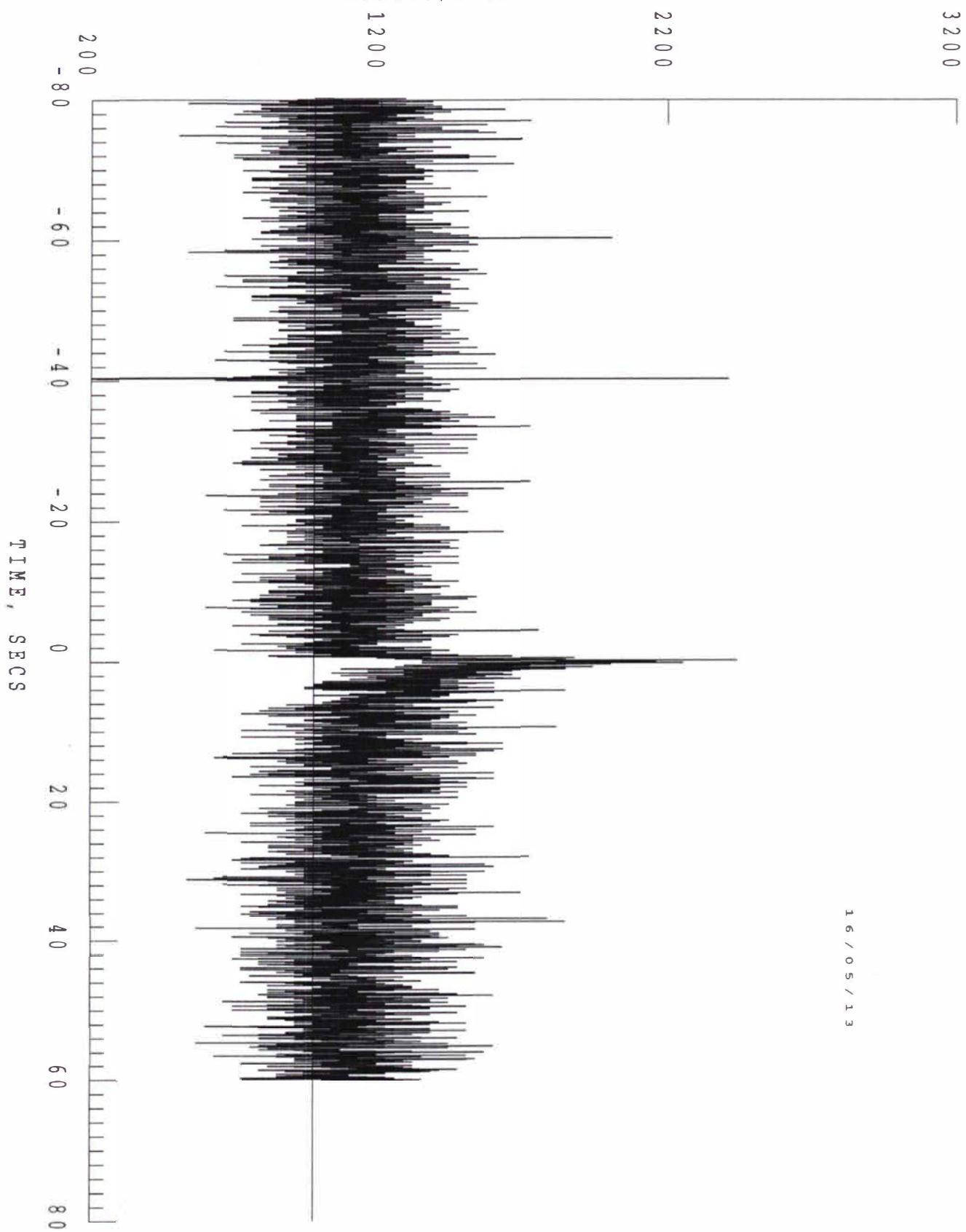
14/05/13

48392.530

C

26- 293 keV

COUNTS/0.032 S



16/05/13

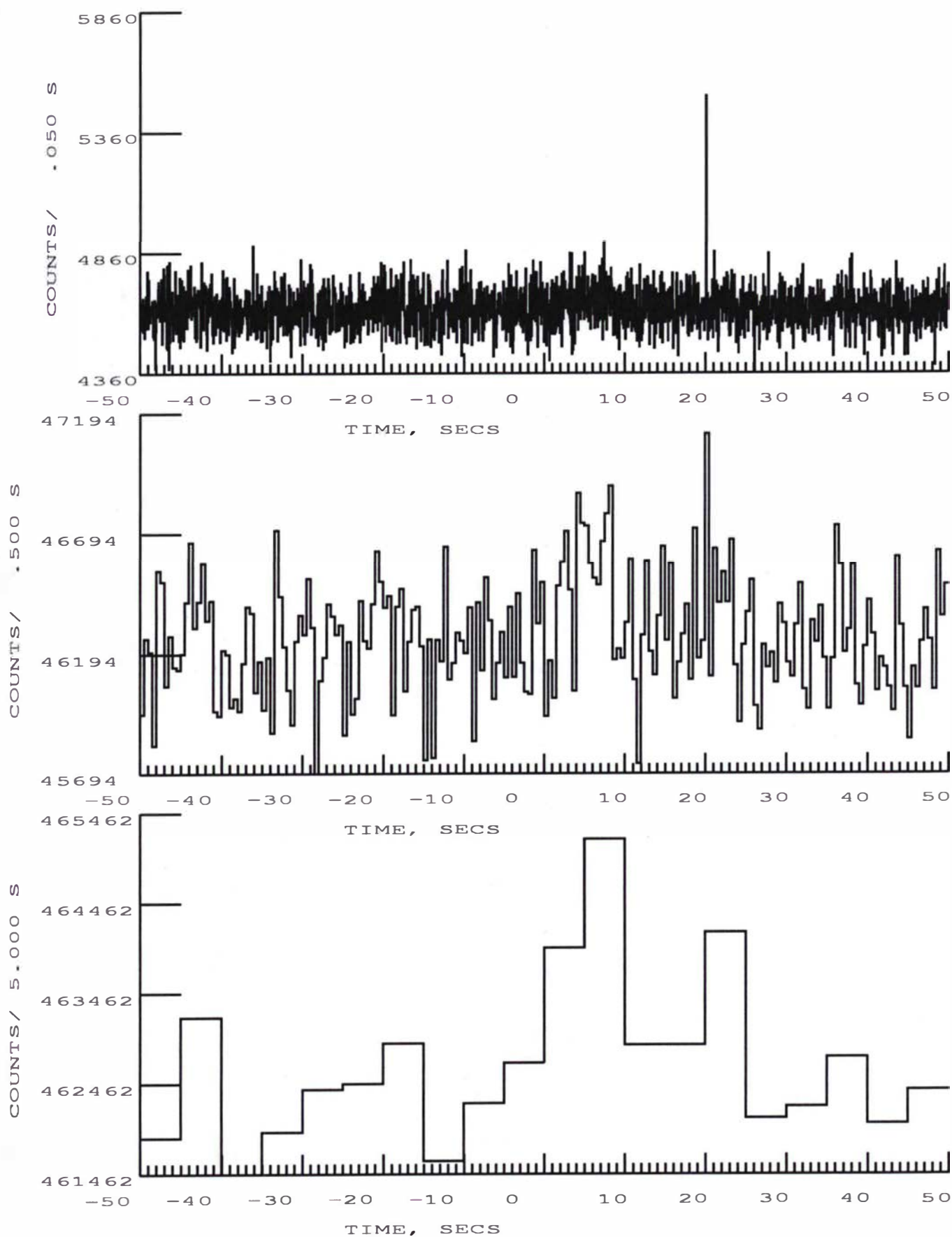
INTEGRAL

14/05/13

55355.000

15:22:35.0

01/11/13



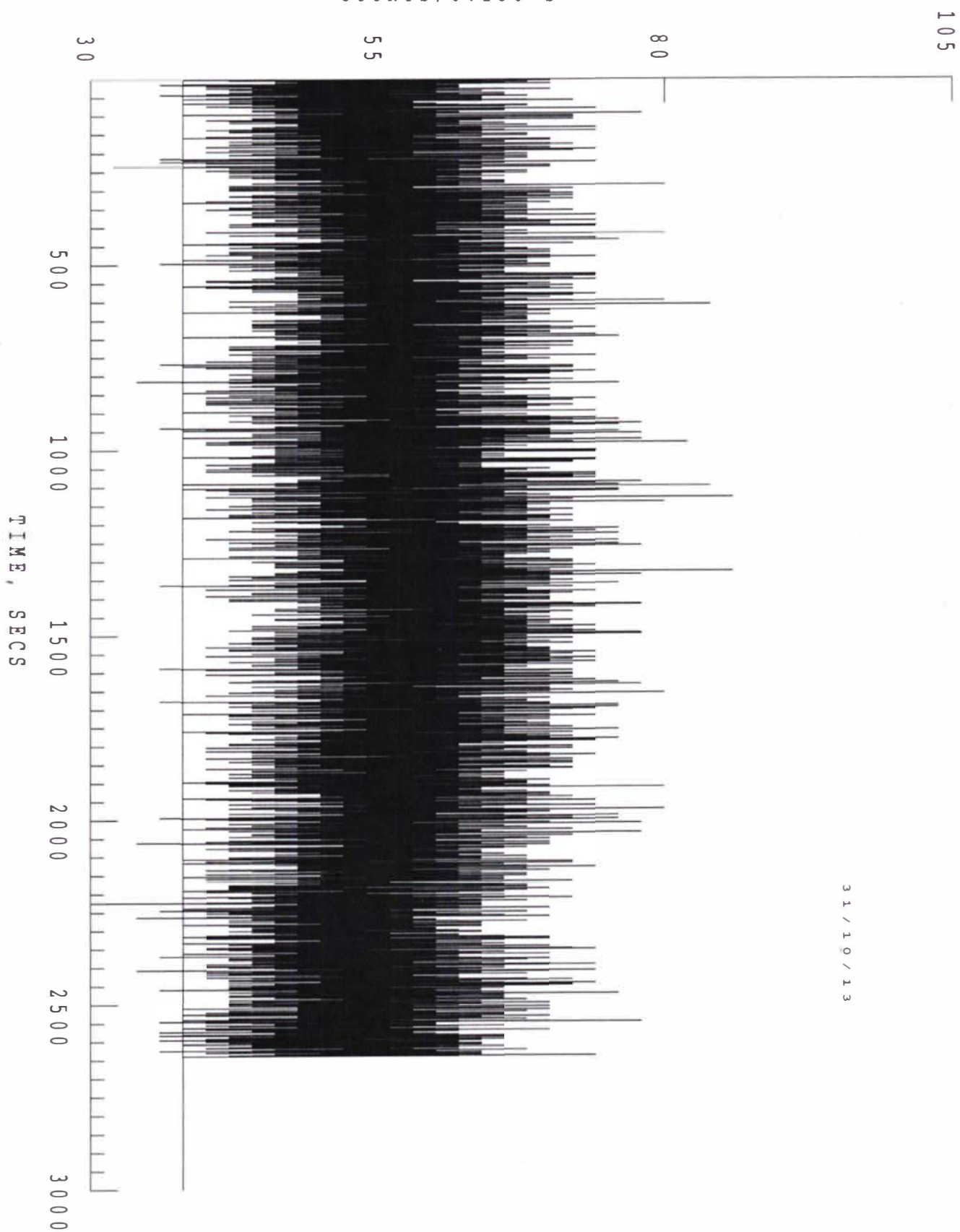
MS01

14/05/13

54030.385

50 - 3000 keV

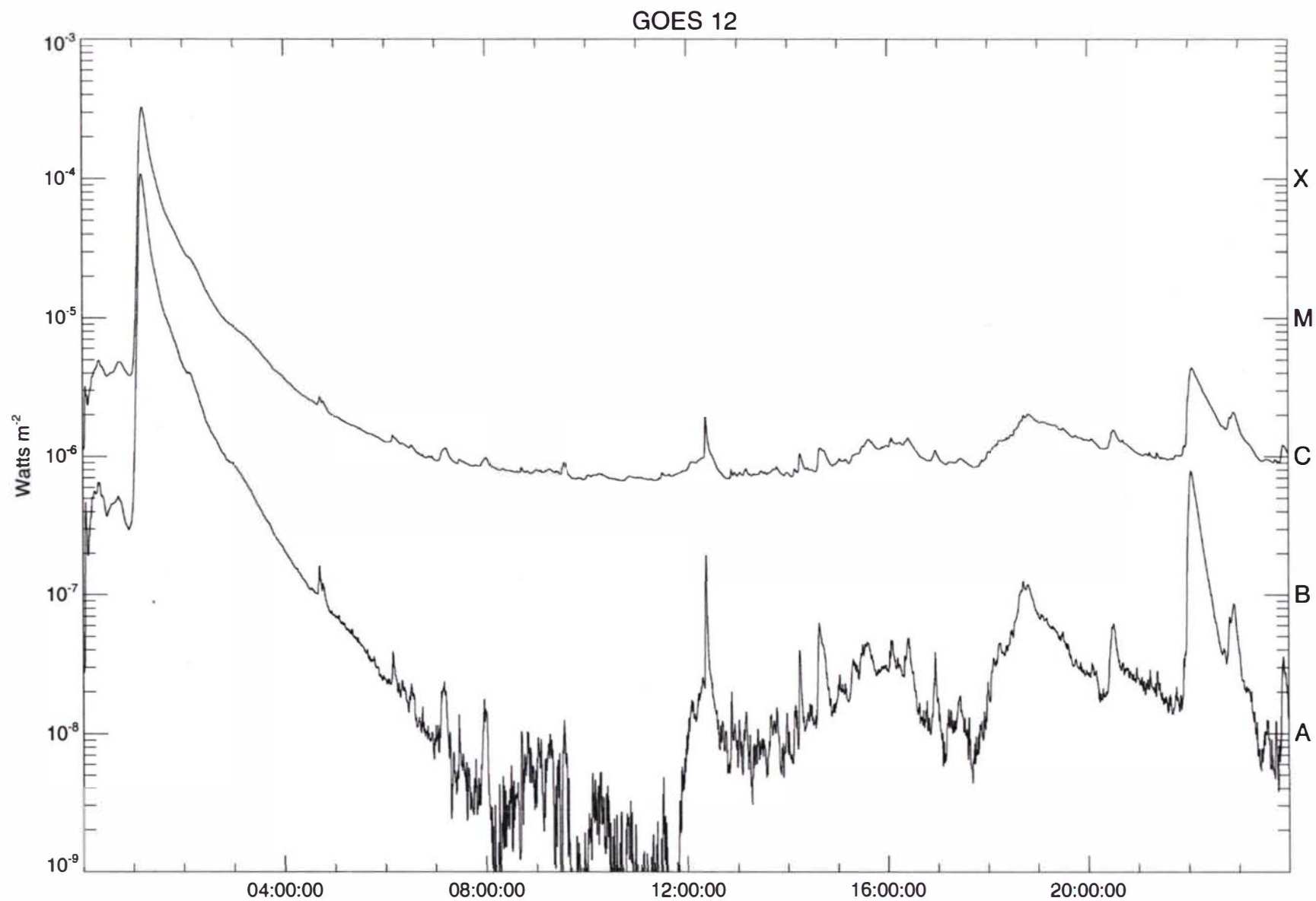
COUNTS/0.250 S



31/10/13

From williams@gammaburst.ssl.berkeley.edu Wed Oct 30 10:26:38 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Wed, 30 Oct 2013 10:26:37 -0800 (PST)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20130514_55355
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 30-Oct-2013 11:25:24.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.500000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry



Data Start: 13/05/14, 0000:12

Plot created: 13/05/17, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

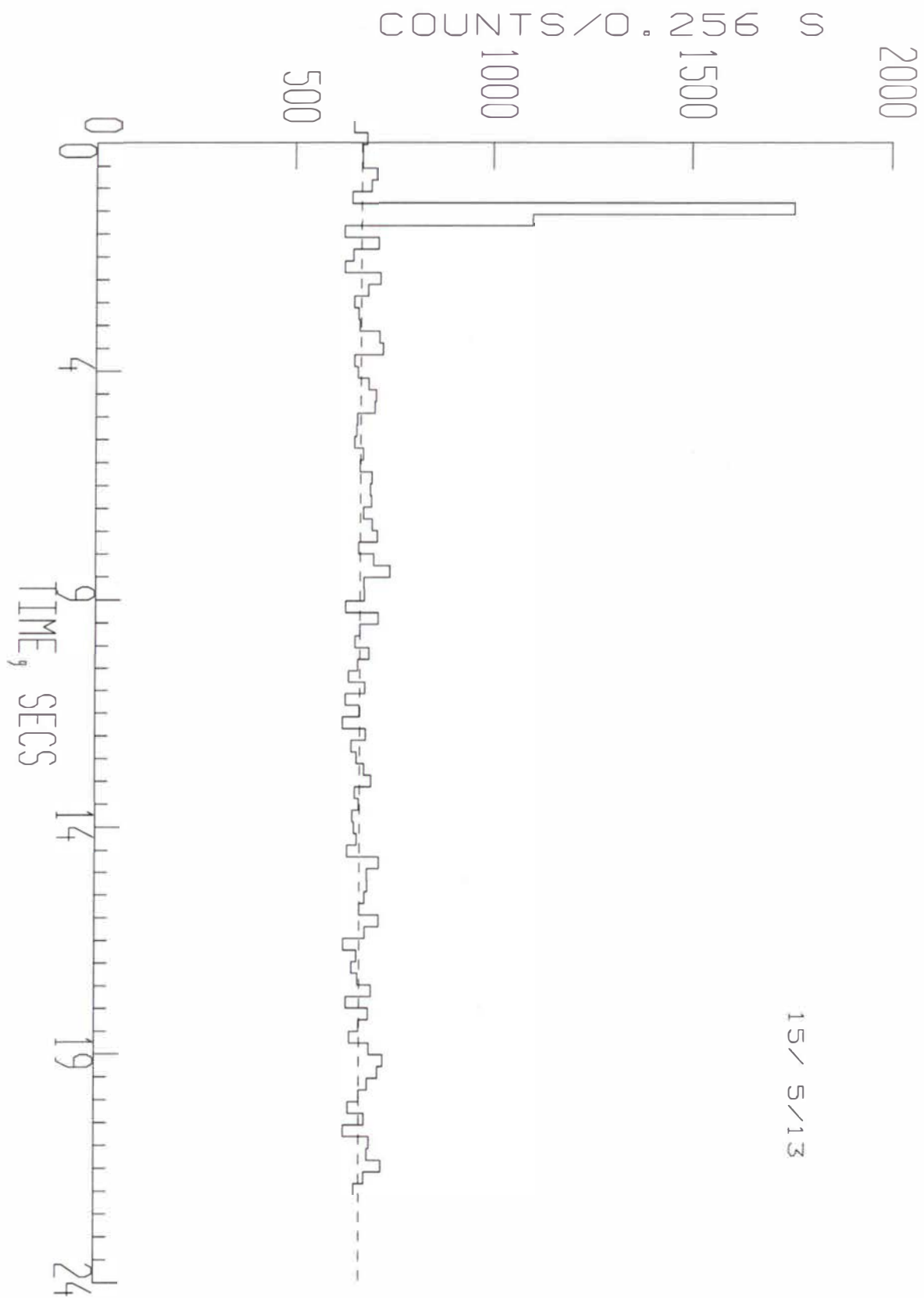
Sample average = 10

A

From vxw@capella2.gsfc.nasa.gov Tue May 14 18:25:32 2013
 X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
 X-Barracuda-Apparent-Source-IP: 128.183.96.236
 Date: Tue, 14 May 2013 21:25:30 -0400
 From: Bacodine <vxw@capella2.gsfc.nasa.gov>
 To: khurley@ssl.berkeley.edu
 Subject: GCN/SWIFT BAT LIGHTCURVE
 X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
 X-Barracuda-BRTS-Status: 1

TITLE:	GCN/SWIFT NOTICE	
NOTICE_DATE:	Wed 15 May 13 01:25:08 UT	0.29 s
NOTICE_TYPE:	Swift-BAT GRB Lightcurve	
TRIGGER_NUM:	555880, Seg_Num: 0	$1.5 \times 10^{-7} \text{ erg cm}^{-2}$
GRB_RA:	283.422d {+18h 53m 41s} (J2000), 283.694d {+18h 54m 46s} (current), 282.403d {+18h 49m 37s} (1950)	1.4 phot/cm ² s
GRB_DEC:	-54.281d {-54d 16' 51"} (J2000), -54.264d {-54d 15' 48"} (current), -54.343d {-54d 20' 35"} (1950)	
GRB_DATE:	16427 TJD; 135 DOY; 13/05/15	
GRB_TIME:	4877.83 SOD {01:21:17.83} UT	
TRIGGER_INDEX:	10427	
GRB_PHI:	141.37 [deg]	
GRB_THETA:	24.19 [deg]	
DELTA_TIME:	-38.00 [sec]	
TRIGGER_DUR:	0.064 [sec]	
SOLN_STATUS:	0x3	
RATE_SIGNIF:	60.39 [sigma]	
MAGE_SIGNIF:	7.13 [sigma]	
C_URL:	sw00555880000msb.lc	
SUN_POSTN:	52.03d {+03h 28m 07s} +18.87d {+18d 52' 02"}	
SUN_DIST:	127.25 [deg] Sun_angle= 8.6 [hr] (West of Sun)	
MOON_POSTN:	110.28d {+07h 21m 07s} +17.35d {+17d 20' 44"}	
MOON_DIST:	142.73 [deg]	
MOON_ILLUM:	21 [%]	
GAL_COORDS:	341.97,-22.04 [deg] galactic lon,lat of the burst (or transient	
ECL_COORDS:	279.12,-31.27 [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 = 82.53,-18.53 [deg]	

SWIFT 15/05/13 4877.840
25- 100 keV



MS01

15/05/13

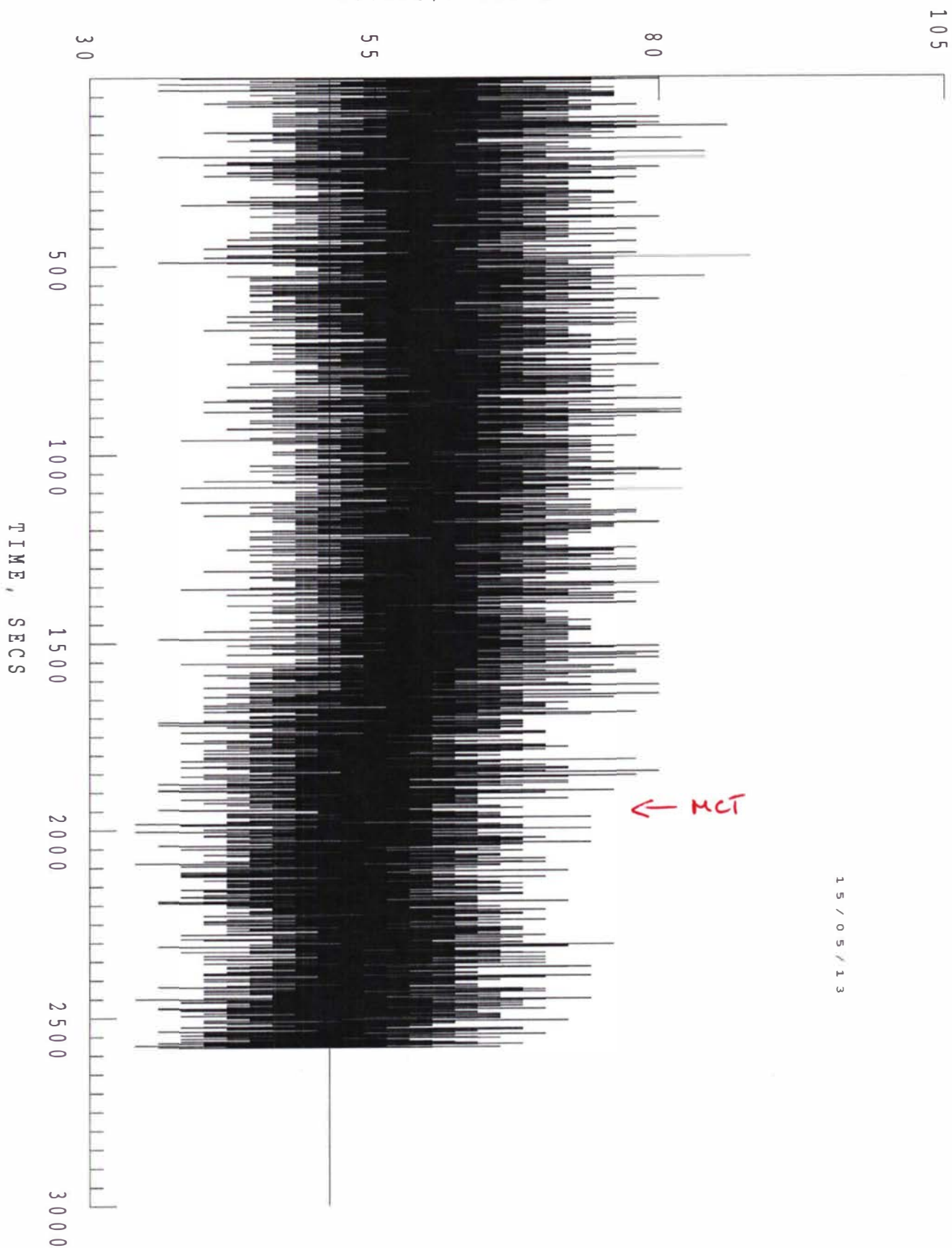
3569.790

A

50 - 3000 keV

Occulted

COUNTS/0.250 S



KONUS1

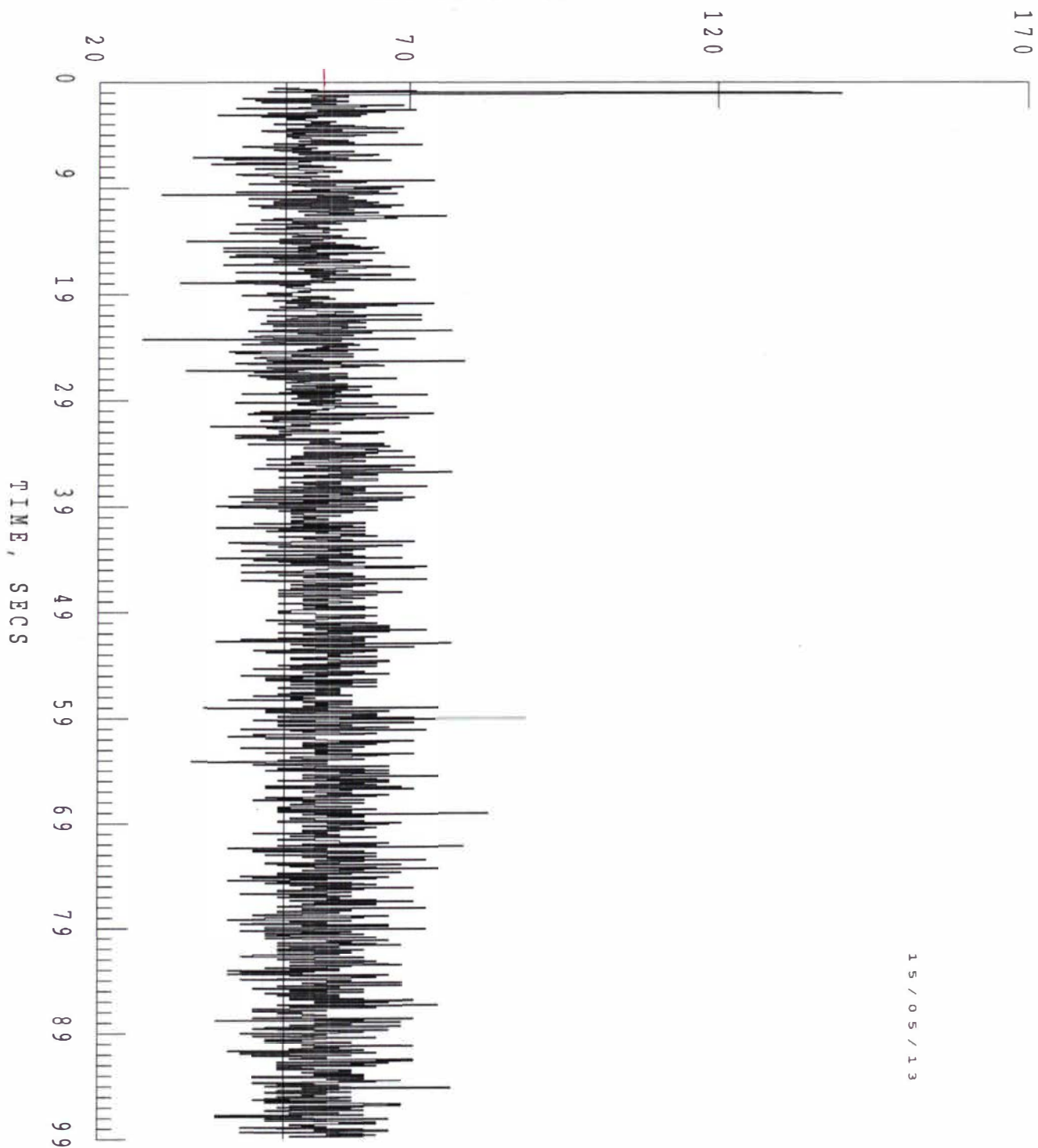
15/05/13

4880.440

BA

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20130515 04880

TRIGGER TIME: 15/05/13 DOY 135 Julian 2456428.55648 UT = 01.356 01:21:20 (04880.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

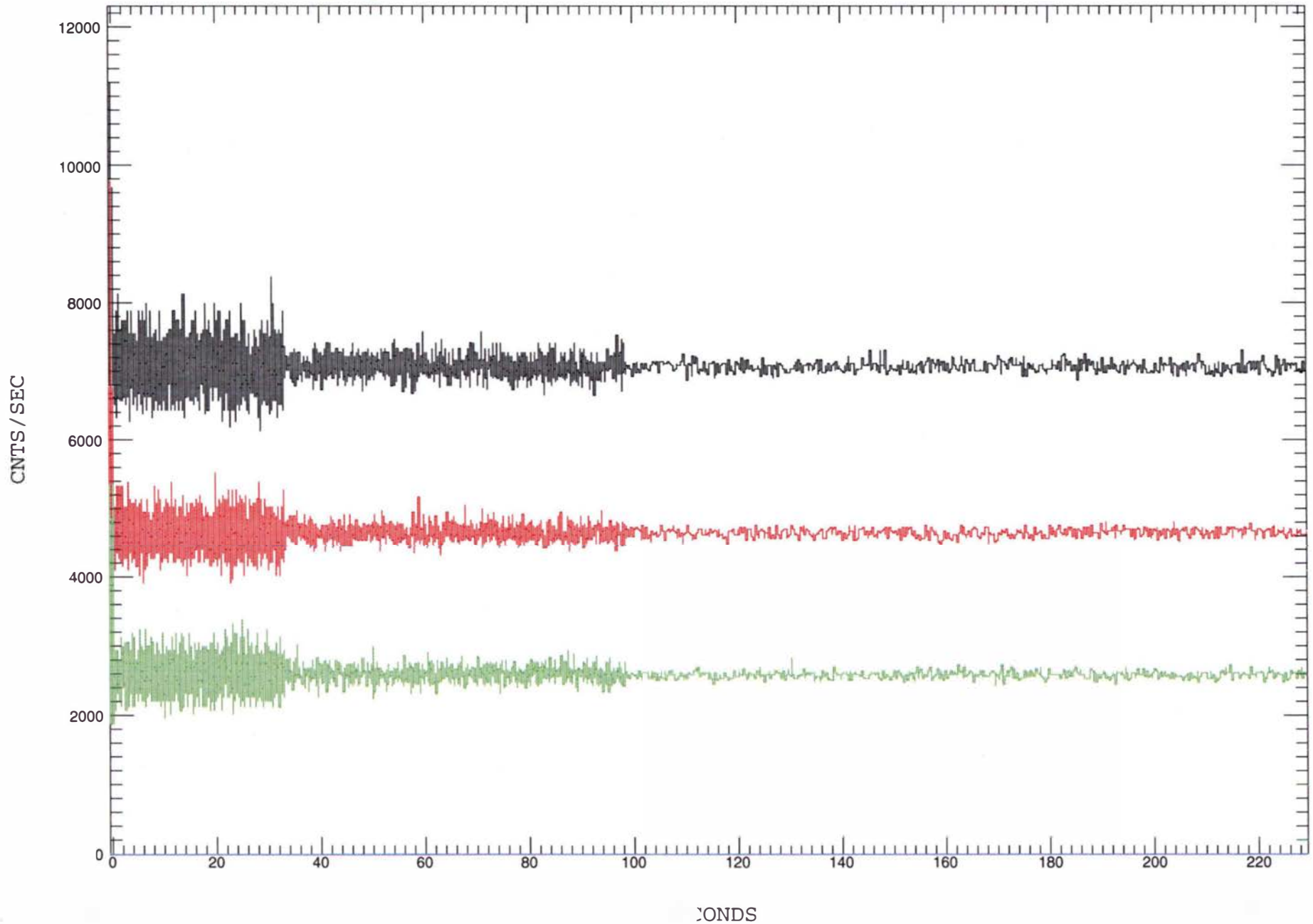
Chan 4 : [> 10 MeV]

Channel 1 + 5700

Channel 2 + 3800

Channel 3 + 1900

Channel 4 + 0



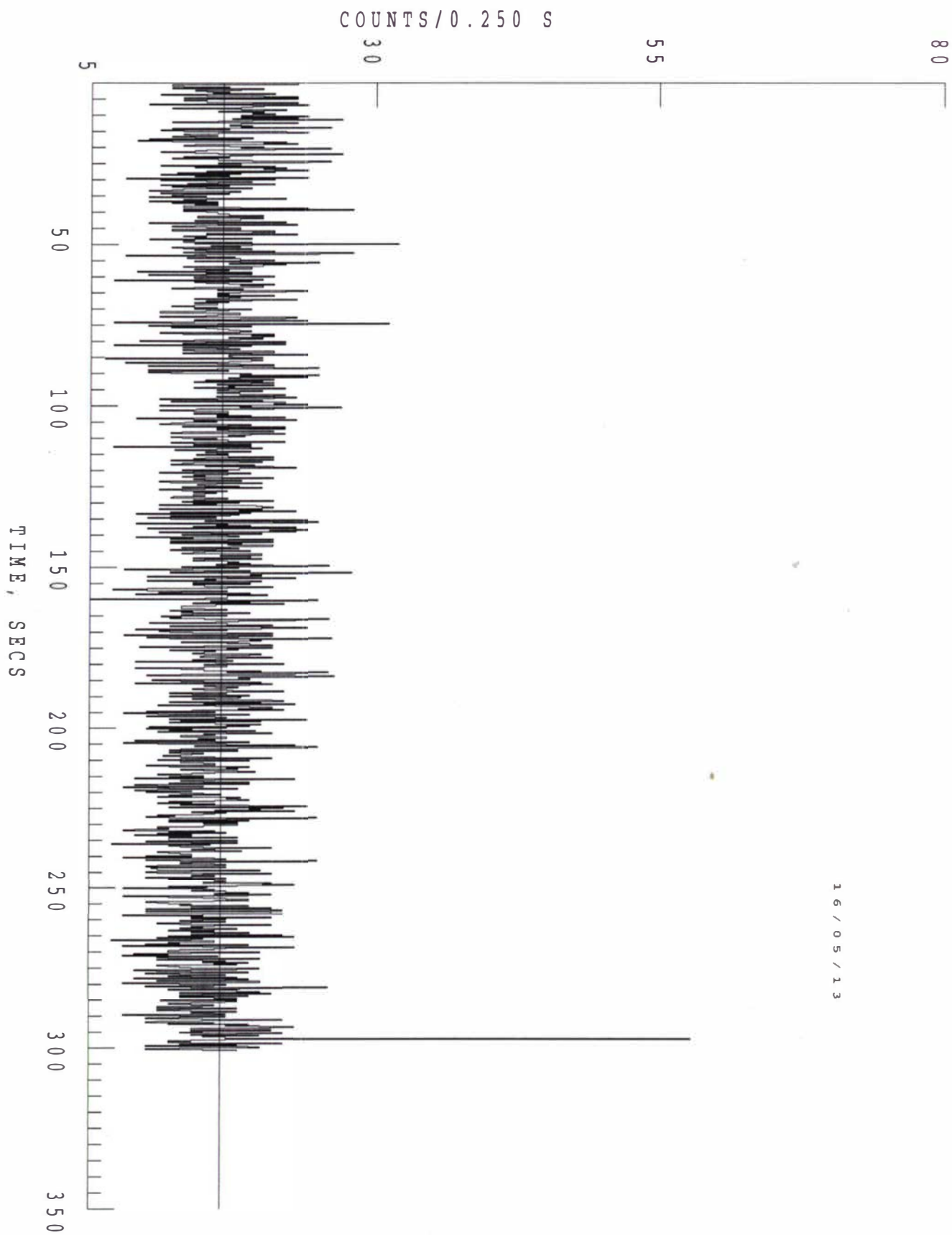
HESSI

15/05/13

4726.000 (GLAST_20130515_04877)

A

25- 150 keV



Subject: [Ipn] BAT lightcurve for trigger at 130515_0121

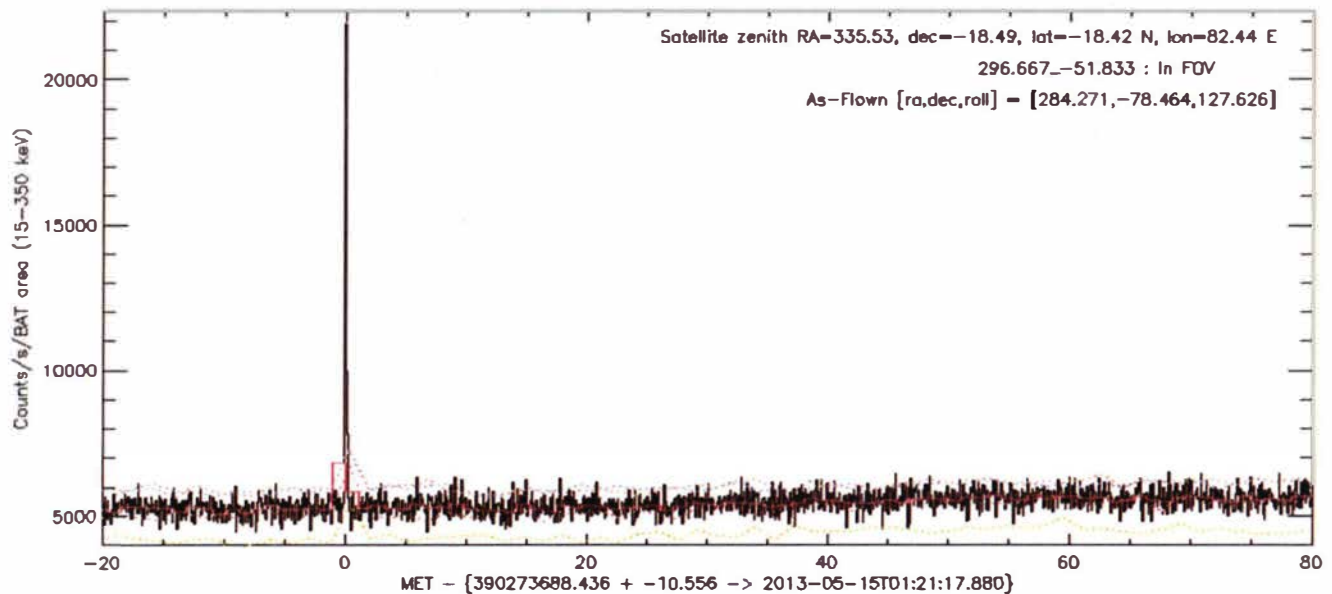
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/14/2013 10:34 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130515_0121.png



```
% /usr/local/bin/swinfo -o 390273688.436 -s 296.667_-51.833
Time(MET + UTCF -> UT): 390273688.436 + -10.556 -> 2013-05-15T01:21:17.880
YYMMDD_SOD: 130515_04877.880 DOY=135
Swift Zenith(RA,dec): 335.53, -18.49
Swift Location(lon,lat,alt): 82.44 E, -18.42 N, 576 km
Obs Sequence Number: 00091685003
Obs Target Name: SWIFT J1857.9-7830
Obs Date and Times: 2013-05-15 01:15:51 - 01:21:25
Obs Pointing(ra,dec,roll): 284.271, -78.464, 127.63
296.667_-51.833_imageloc (boresight_dist, angle): (27, 159)
296.667_-51.833_exposure (cm² cos adjusted): 3530
296.667_-51.833_altitude: 68 (up)
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130515_0121.png	12.0 KB
/tmp/130515_0121_bat64ms_ipn	87.0 KB

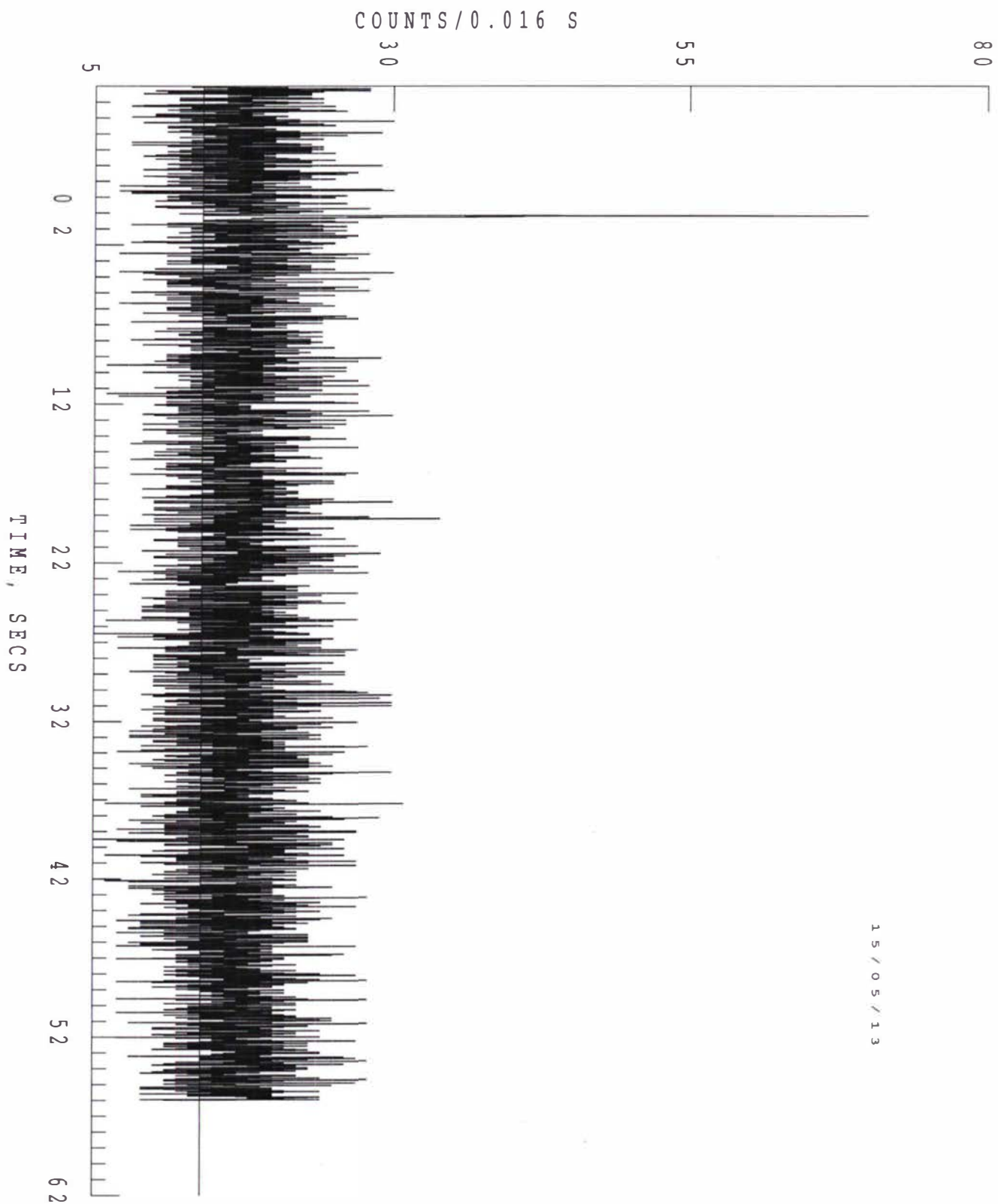
SUZAKU

15/05/13

4877.680

BA

50 - 240 keV



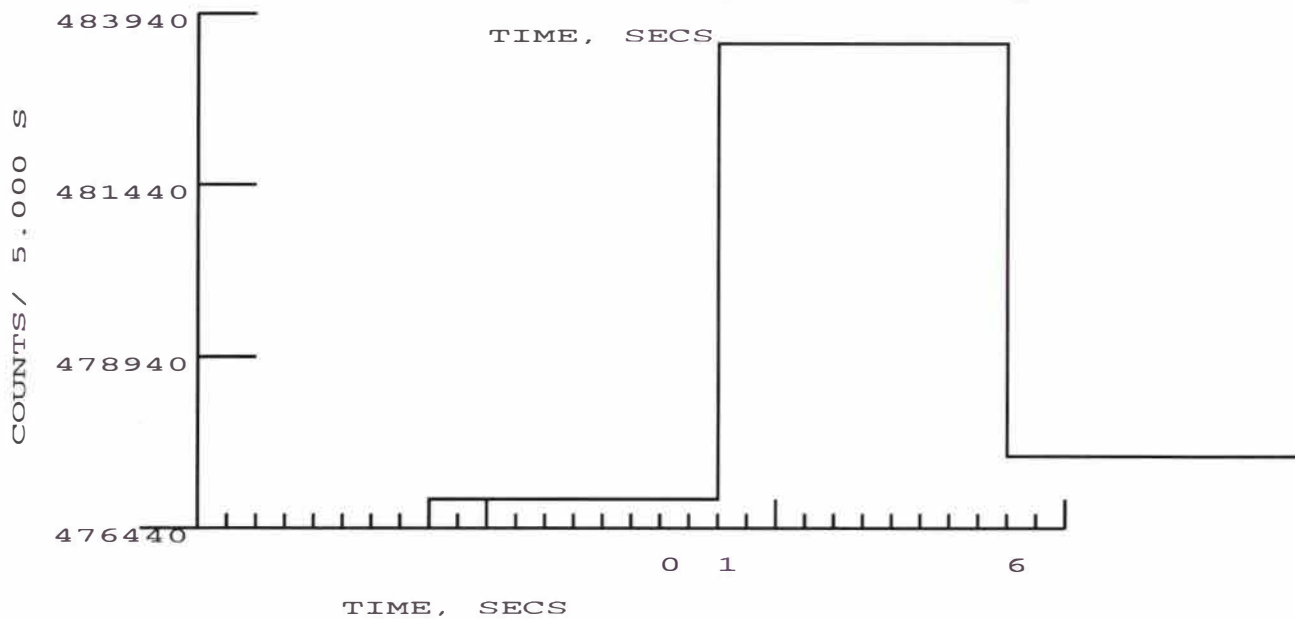
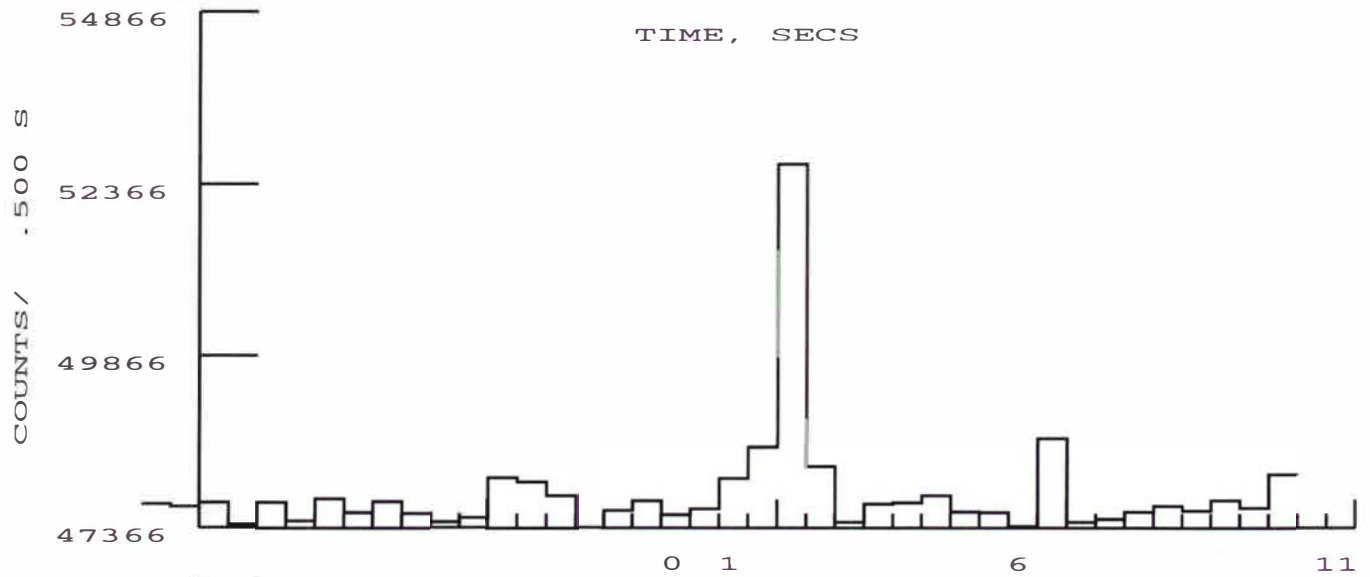
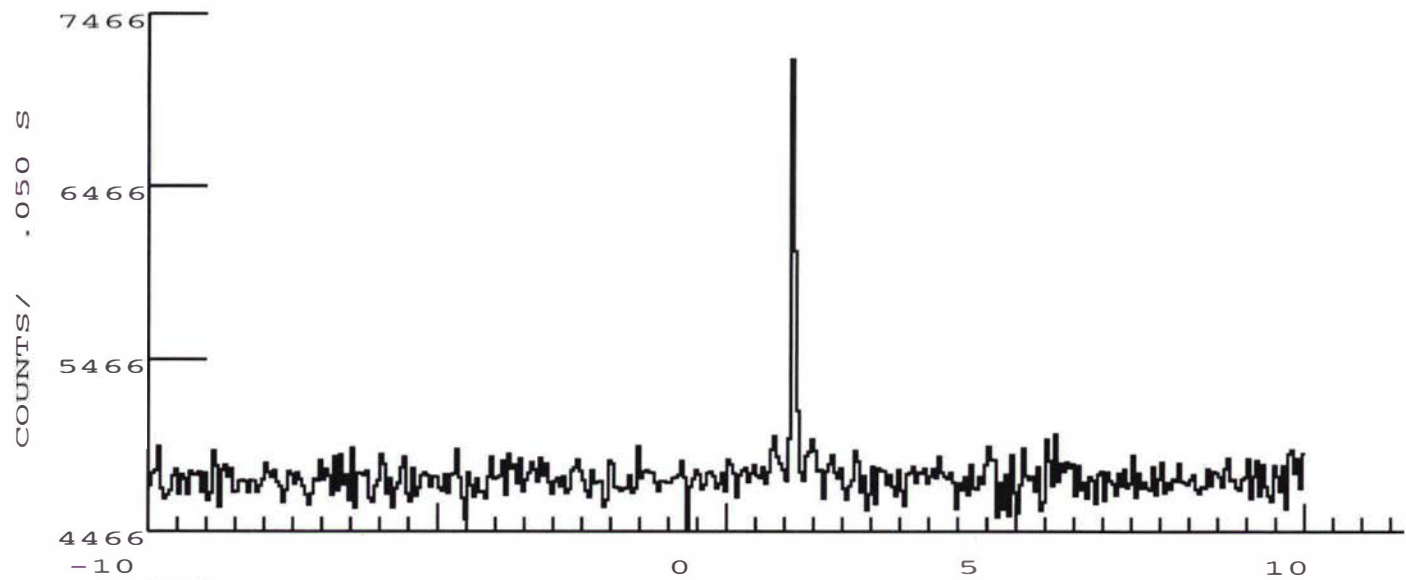
INTEGRAL

15/05/13

4877.000

01:21:17.0

03/07/20



GLAST

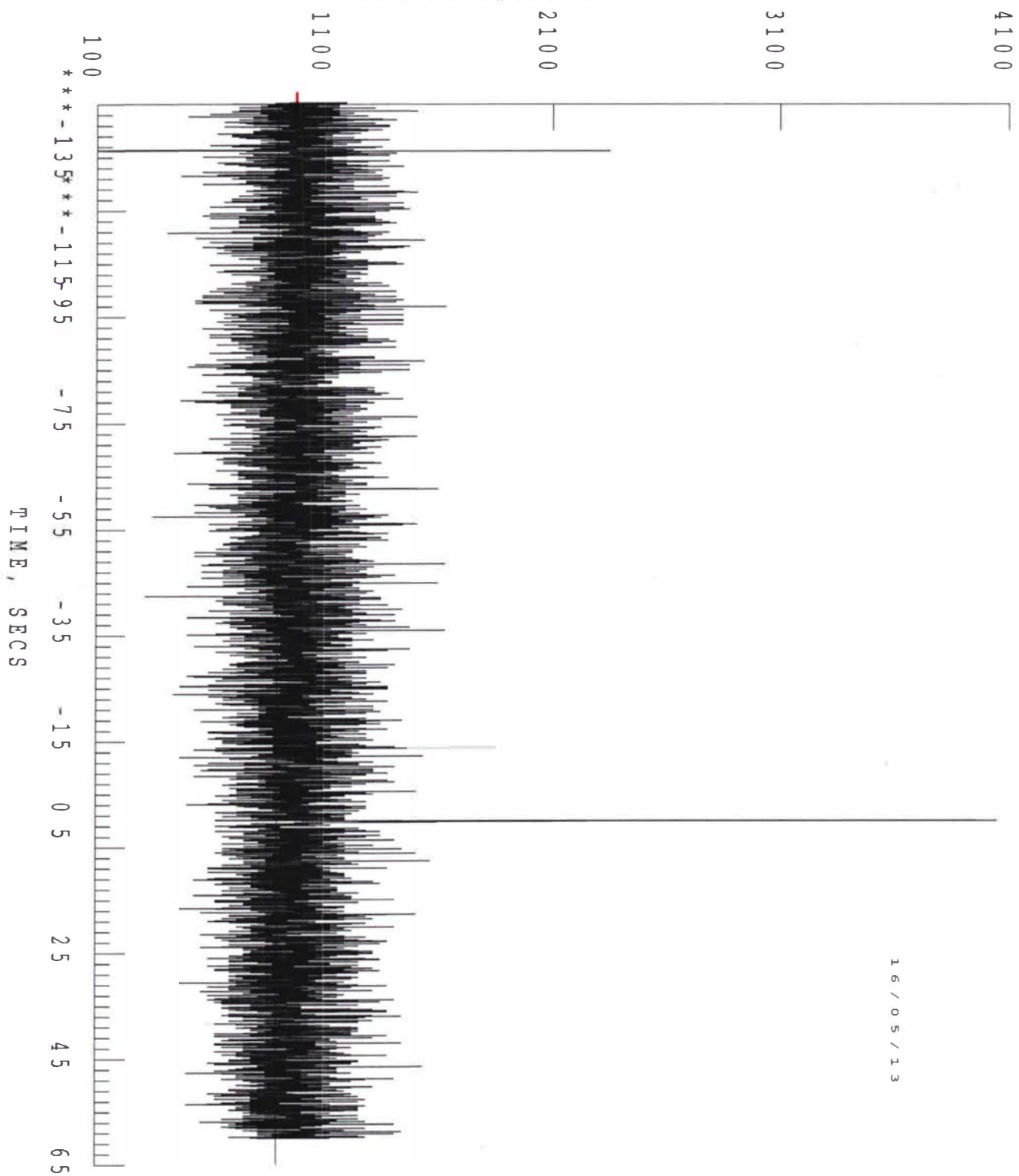
15/05/13

4877.876

BA

26- 293 keV

COUNTS/0.032 S



SUZAKU

15/05/13

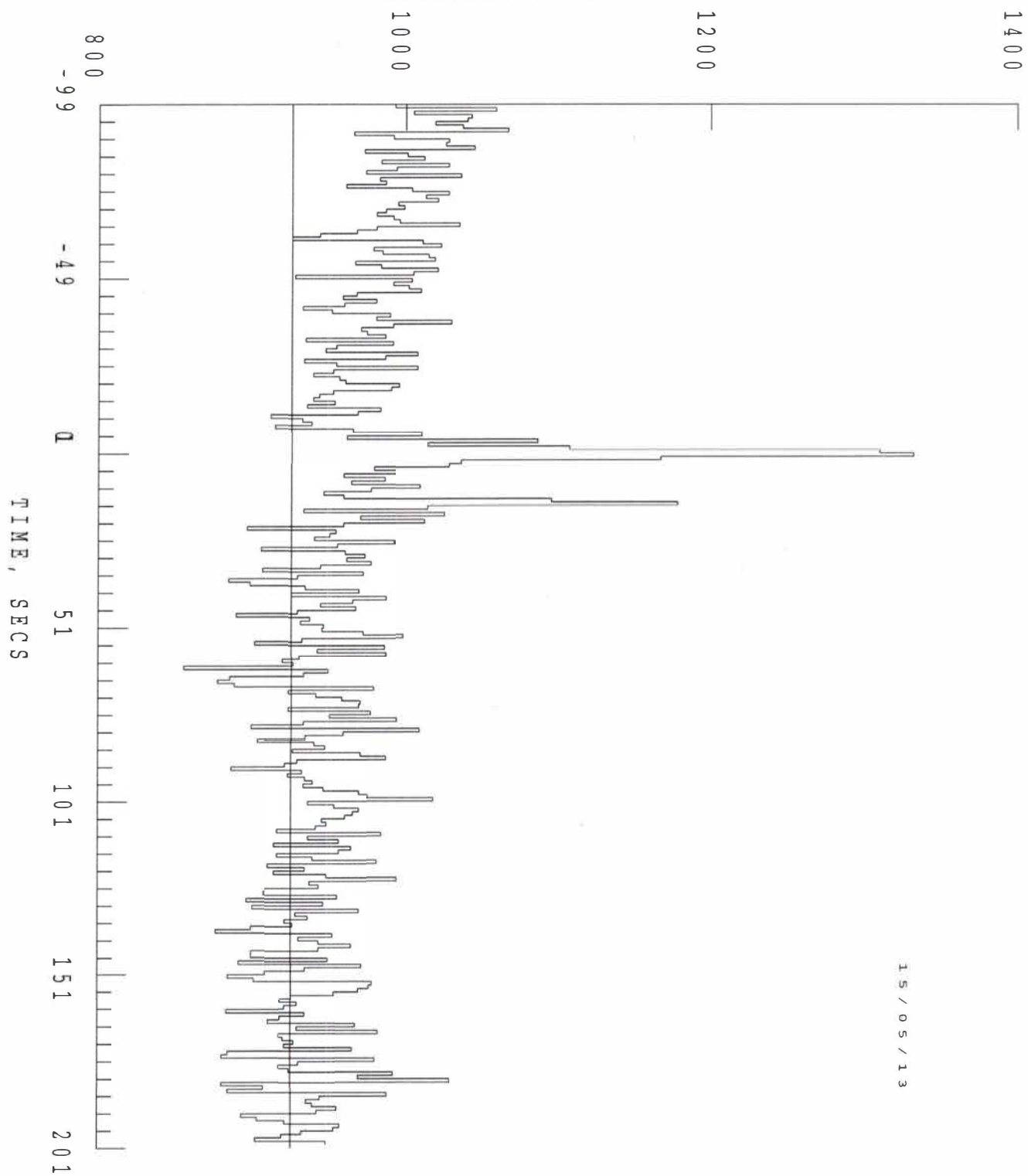
9374.680

02:36:14

EB

50 - 240 keV

COUNTS/1.000 S



15/05/13

MS01

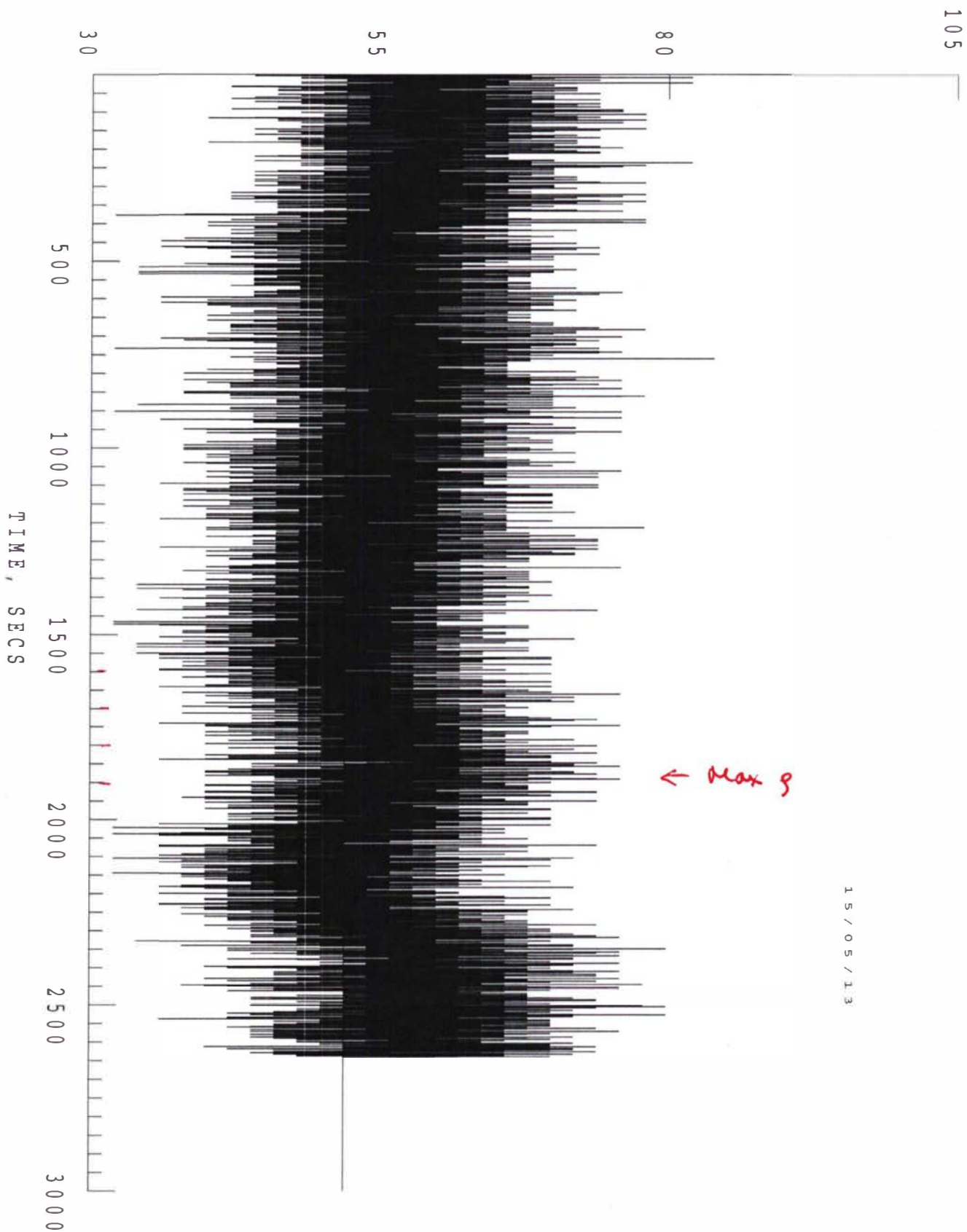
15/05/13

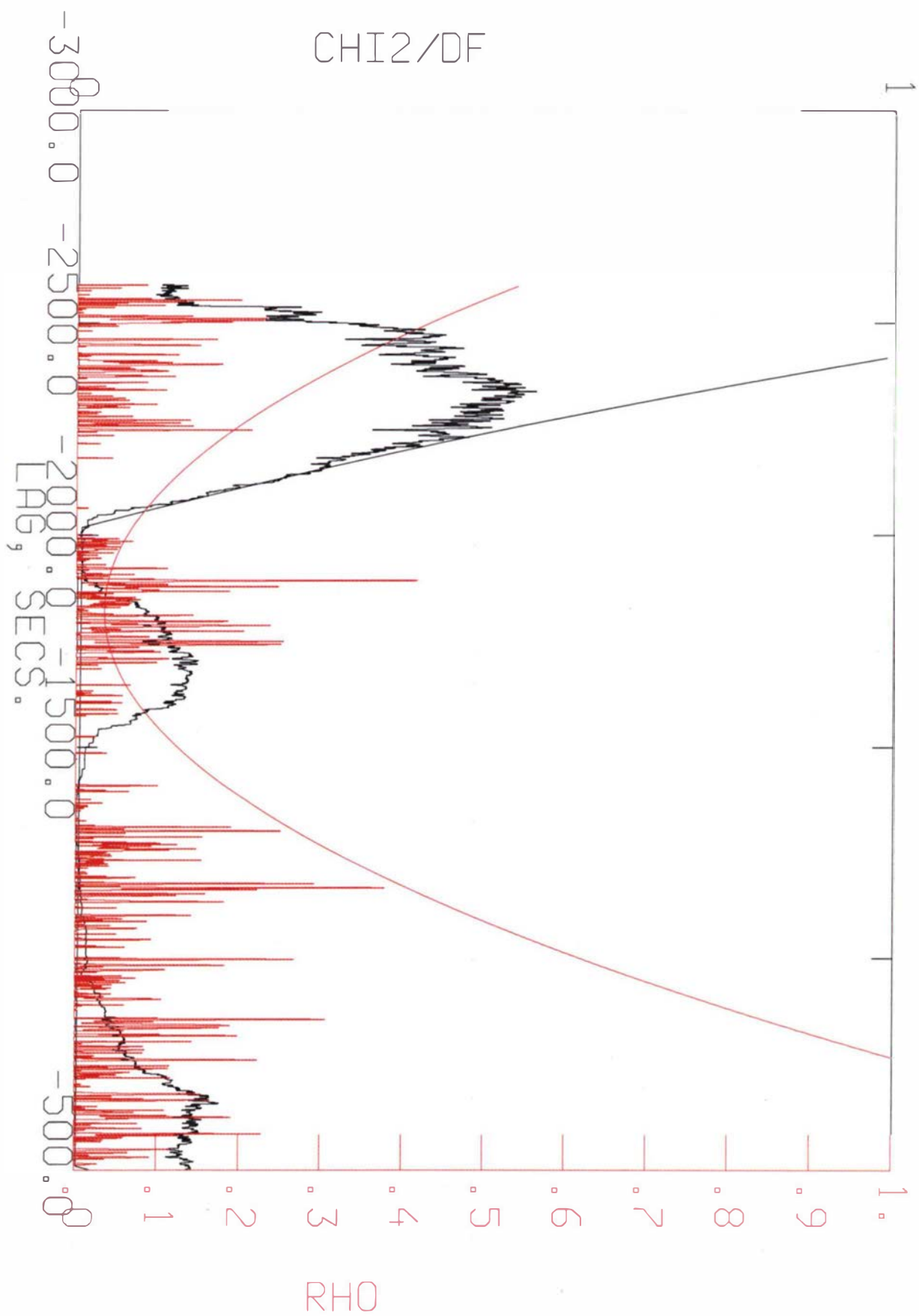
8009.710

EB

50 - 3000 keV

COUNTS/0.250 S





From williams@gammaburst.ssl.berkeley.edu Wed May 15 17:26:52 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
"-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Wed, 15 May 2013 17:26:51 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20130515_09374
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 15-May-2013 17:25:36.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [Ipn] BAT lightcurve for trigger at 130515_0348

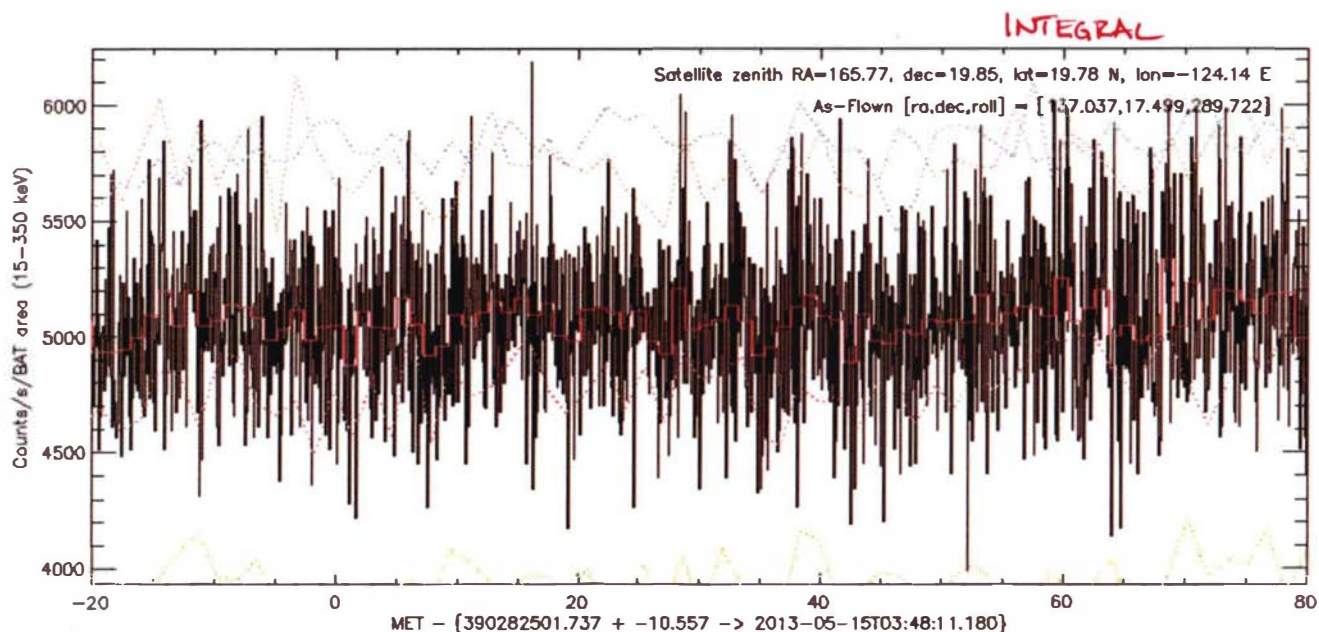
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/15/2013 1:37 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130515_0348.png



```
% /usr/local/bin/swinfo -o 390282501.737
Time(MET + UTC -> UT): 390282501.737 + -10.557 -> 2013-05-15T03:48:11.180
YYMMDD_SOD: 130515_13691.180 DOY=135
Swift Zenith(RA,dec): 165.77, 19.85
Swift Location(lon,lat,alt): -124.14 E, 19.78 N, 574 km
Obs Sequence Number: 00555163011
Obs Target Name: GRB 130505A
Obs Date and Times: 2013-05-15 03:20:51 - 03:50:49
Obs Pointing(ra,dec,roll): 137.037, 17.499, 289.72
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130515_0348.png	20.8 KB
/tmp/130515_0348_bat64ms_ipn	87.0 KB

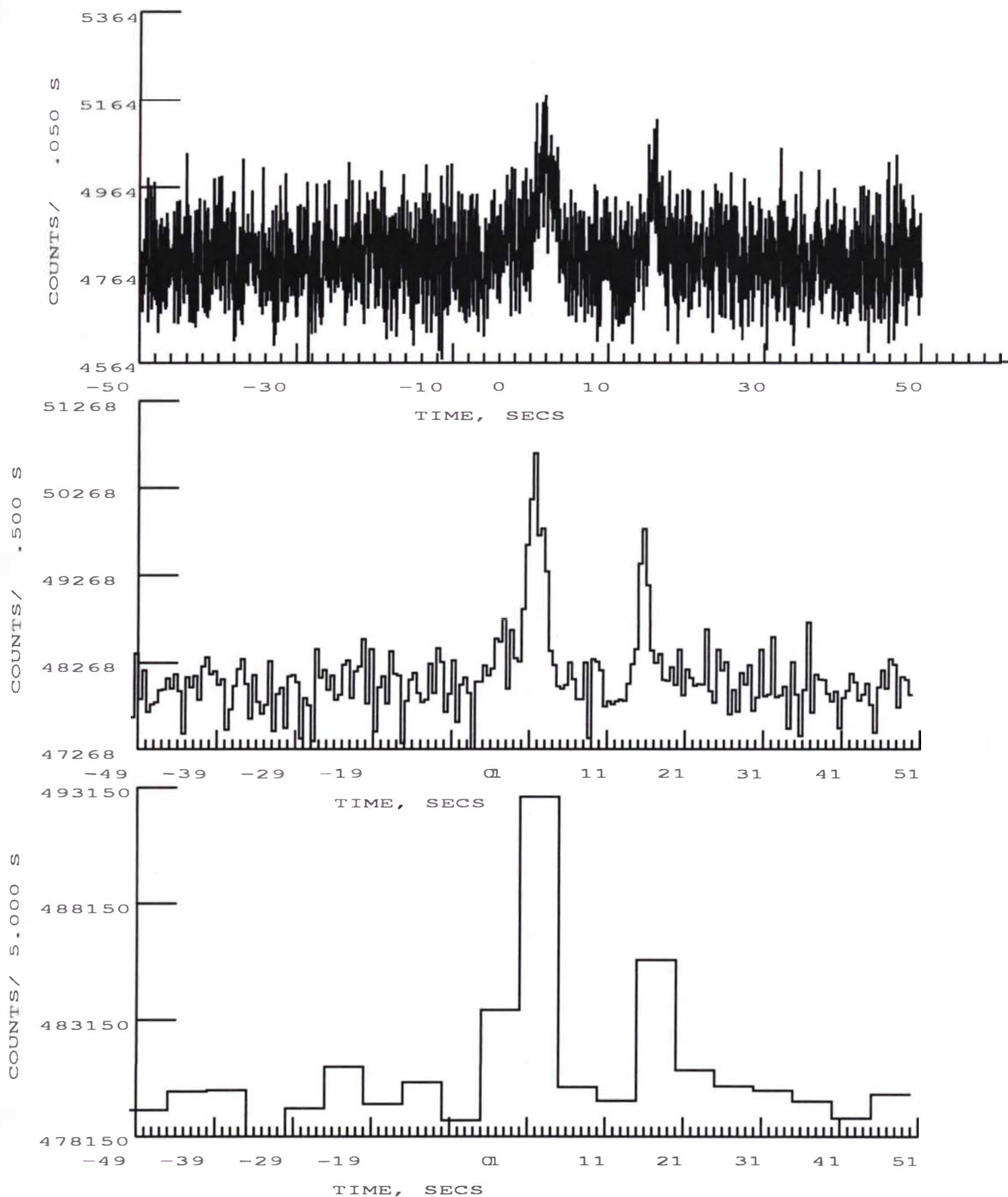
INTEGRAL

15/05/13

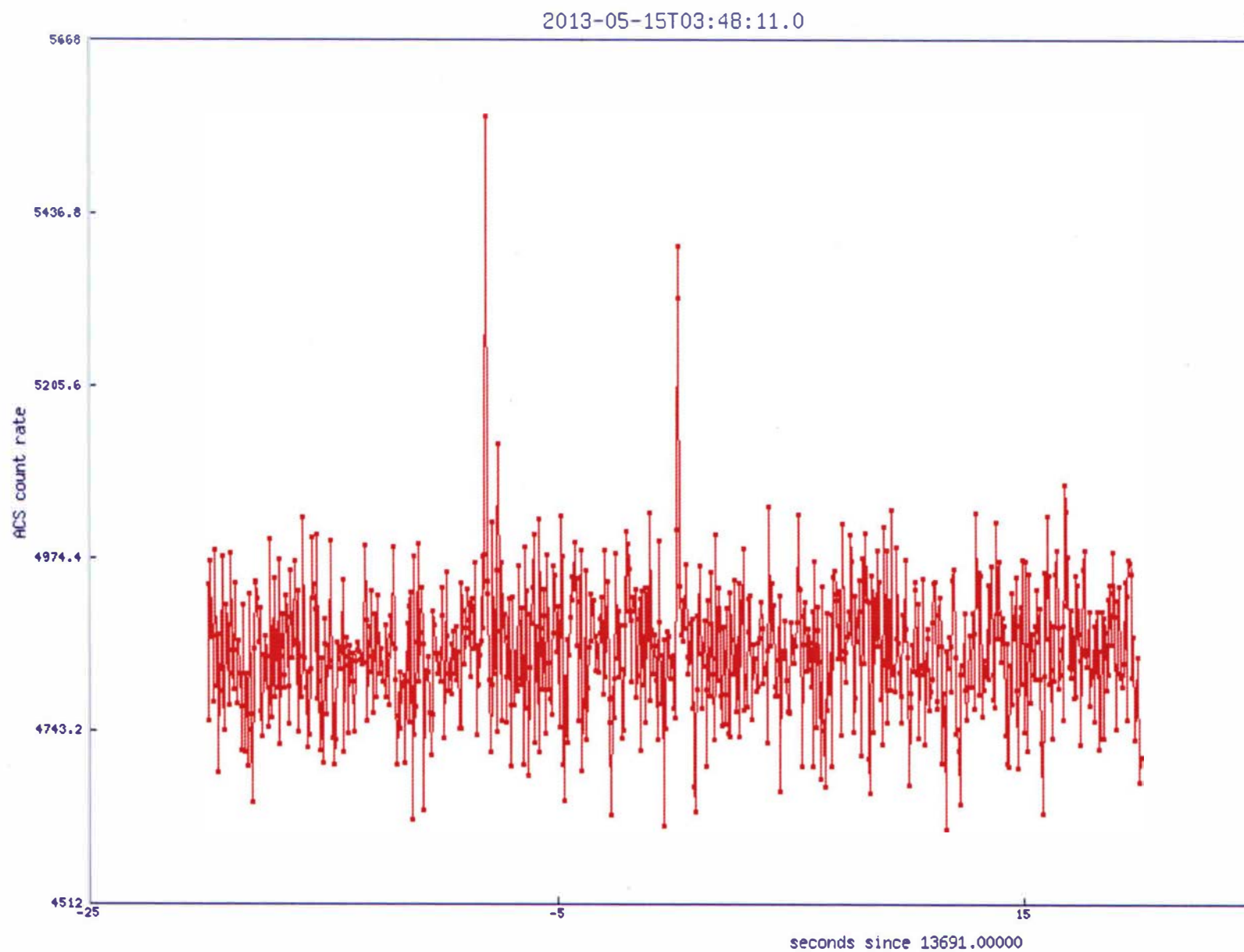
9374.000

02:36:14.0

25/10/13



DC



C

25/10/13

MESSENGER

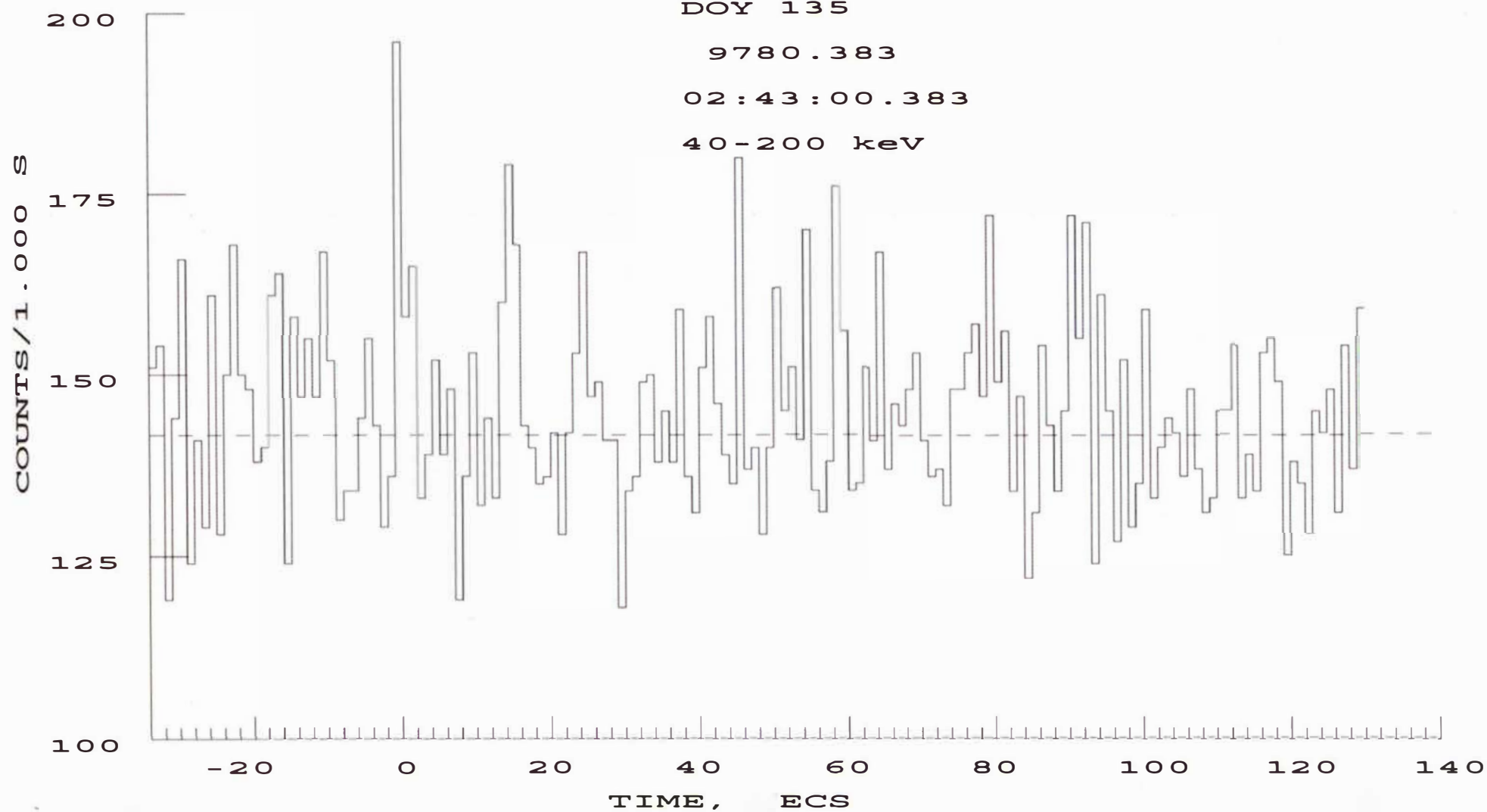
15/05/13

DOY 135

9780.383

02:43:00.383

40-200 keV



Subject: [Ipn] BAT lightcurve for trigger at 130515_0947

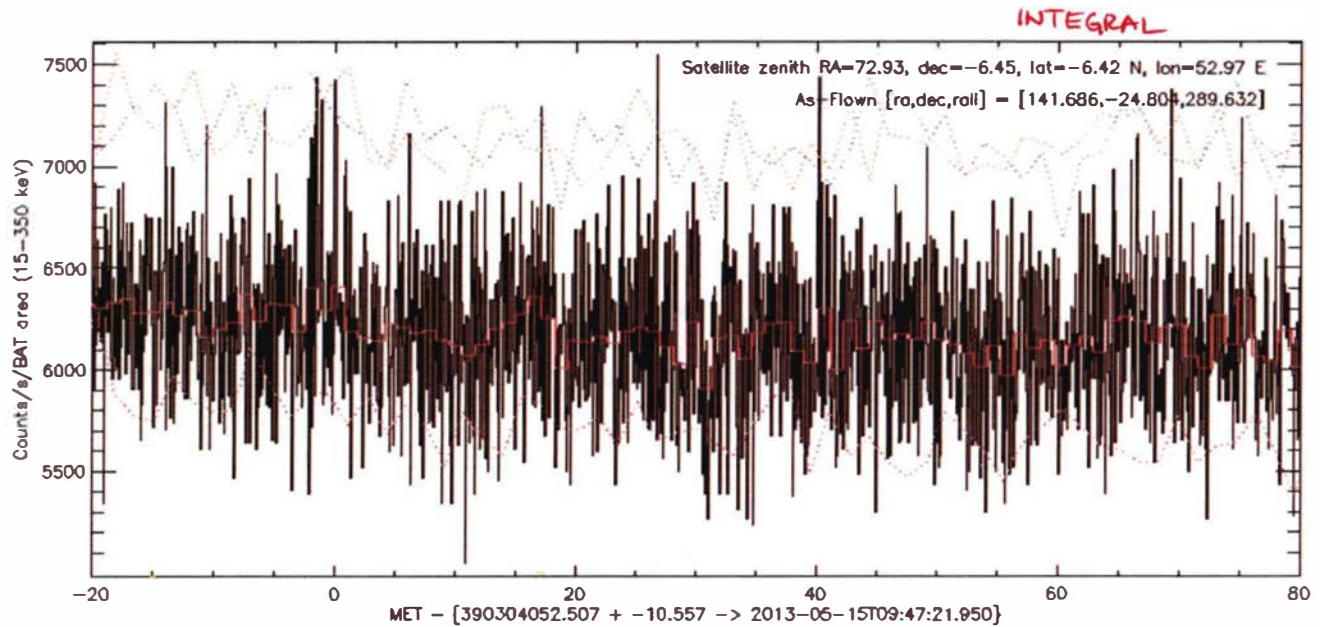
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/15/2013 7:56 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130515_0947.png



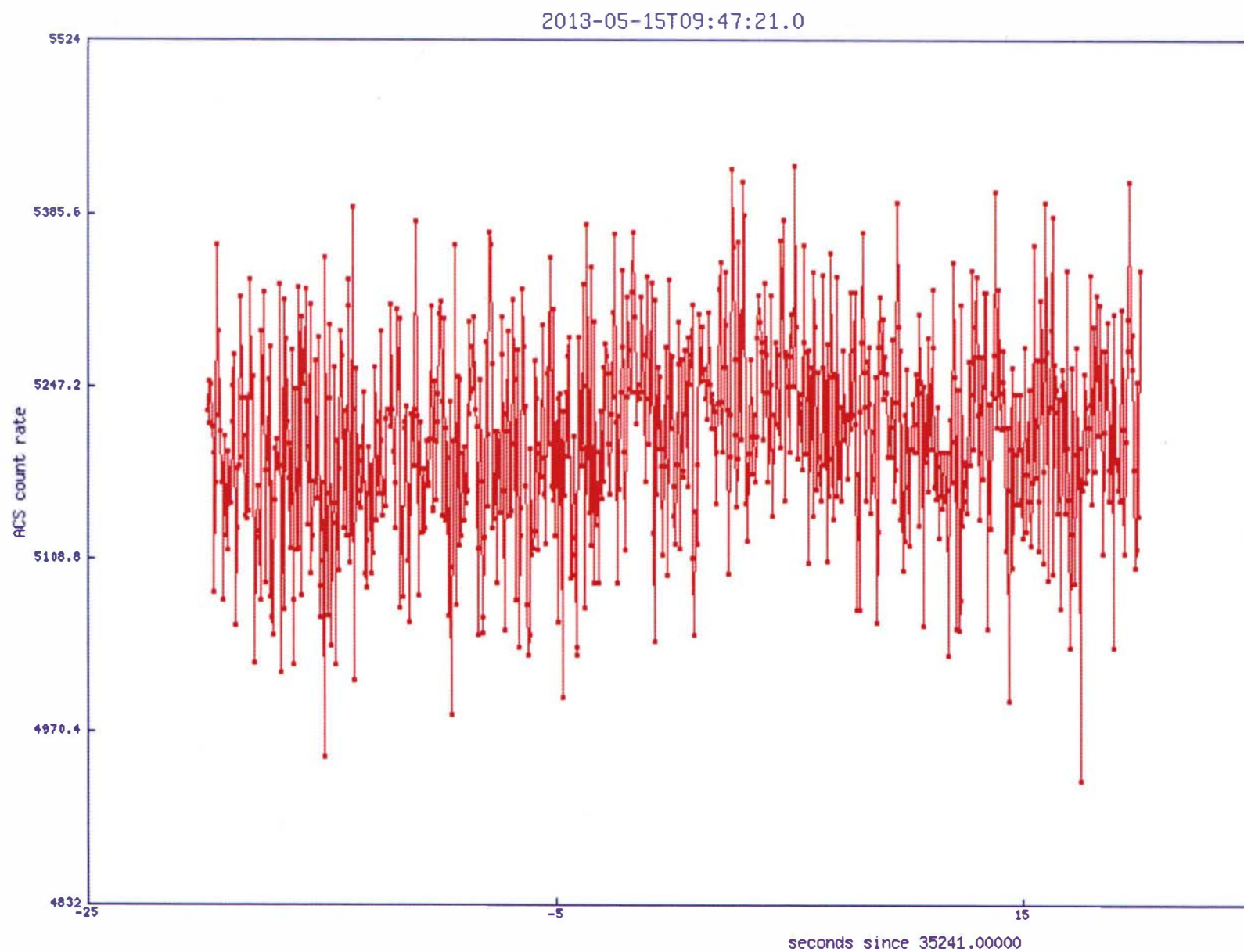
```
% /usr/local/bin/swinfo -o 390304052.507
Time(MET + UTC -> UT): 390304052.507 + -10.557 -> 2013-05-15T09:47:21.950
YYMMDD_SOD: 130515_35241.950 DOY=135
Swift Zenith(RA,dec): 72.93, -6.45
Swift Location(lon,lat,alt): 52.97 E, -6.42 N, 586 km
Obs Sequence Number: 00032820006
Obs Target Name: SN-NGC2891
Obs Date and Times: 2013-05-15 09:44:51 - 09:54:46
Obs Pointing(ra,dec,roll): 141.686, -24.804, 289.63
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130515_0947.png	19.1 KB
/tmp/130515_0947_bat64ms_ipn	87.1 KB



D

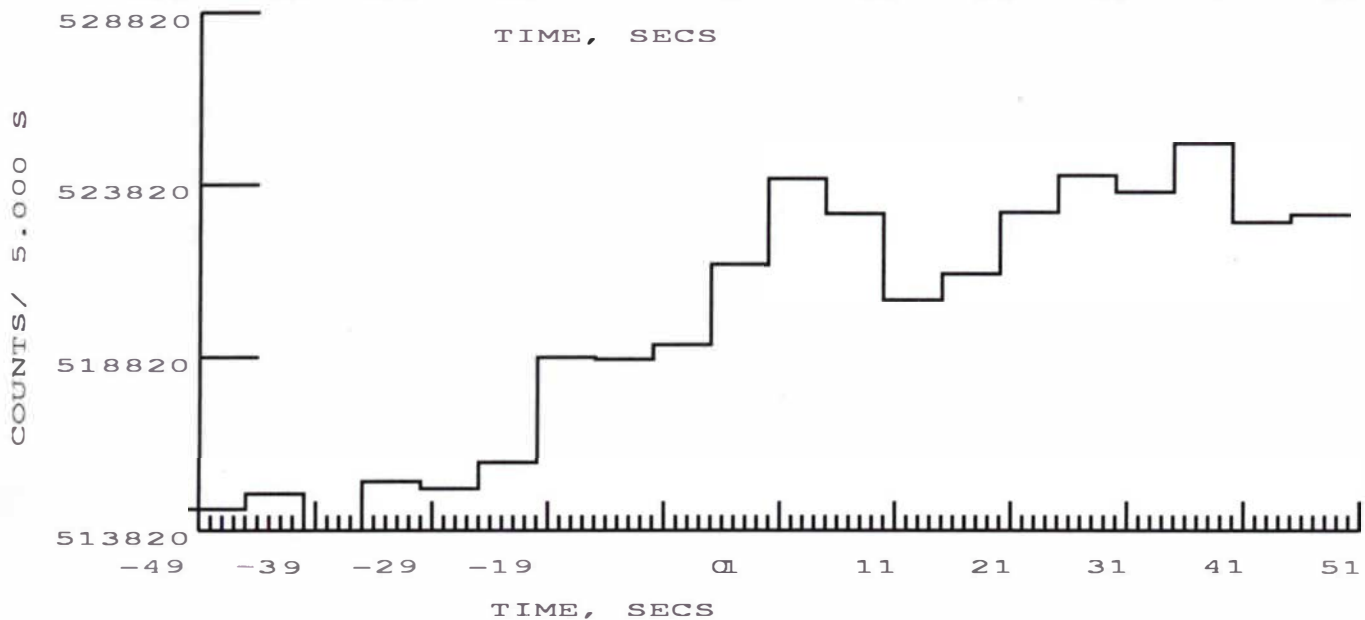
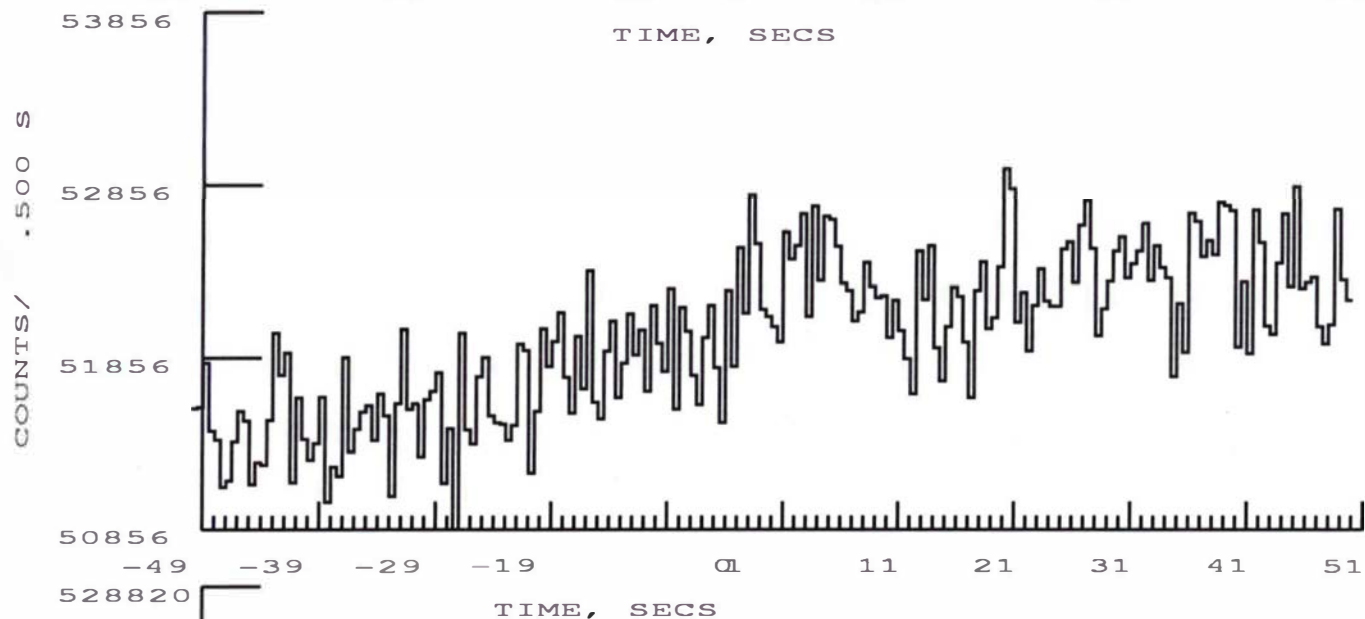
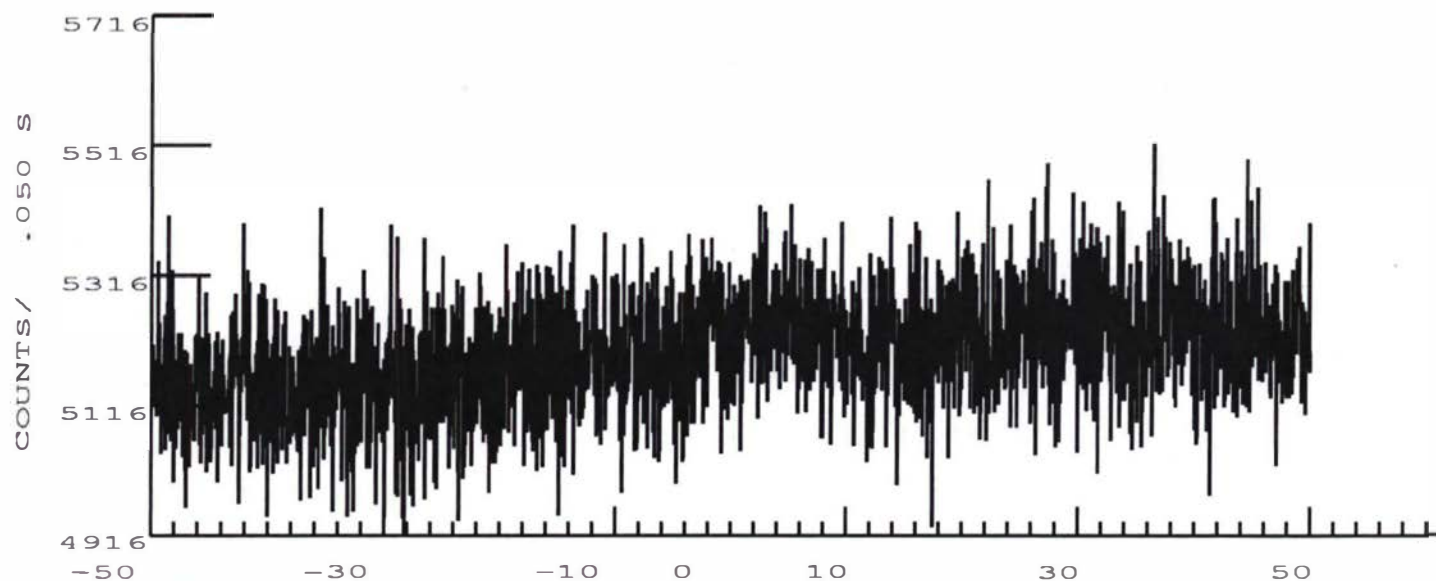
INTEGRAL

15/05/13

35241.000

09:47:21.0

25/10/13



DE

From vxw@capella2.gsfc.nasa.gov Wed May 15 06:31:24 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Wed, 15 May 2013 09:31:22 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/FERMI_GBM_FINAL_POSITION
X-Barracuda-BRTS-Status: 1

TITLE: GCN/FERMI NOTICE
NOTICE_DATE: Wed 15 May 13 13:31:22 UT
NOTICE_TYPE: Fermi-GBM Final Position
RECORD_NUM: 0
TRIGGER_NUM: 390305913
GRB_RA: 312.840d {+20h 51m 22s} (J2000),
313.026d {+20h 52m 06s} (current),
312.144d {+20h 48m 35s} (1950)
GRB_DEC: -14.950d {-14d 56' 59"} (J2000),
-14.899d {-14d 53' 56"} (current),
-15.138d {-15d 08' 16"} (1950)
GRB_ERROR: 5.37 [deg radius, statistical only]
GRB_DATE: 16427 TJD; 135 DOY; 13/05/15
GRB_TIME: 37110.17 SOD {10:18:30.17} UT
GRB_PHI: 261.06 [deg]
GRB_THETA: 51.13 [deg]
E_RANGE: 50.000 - 300.000 [keV]
LOC_ALGORITHM: 414 (Gnd S/W Version number)
SUN_POSTN: 52.53d {+03h 30m 06s} +18.99d {+18d 59' 08"}
SUN_DIST: 103.56 [deg] Sun_angle= 6.6 [hr] (West of Sun)
MOON_POSTN: 116.40d {+07h 45m 36s} +16.18d {+16d 10' 42"}
MOON_DIST: 163.93 [deg]
MOON_ILLUM: 25 [%]
GAL_COORDS: 32.29, -33.18 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 311.12, 2.59 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: Fermi-GBM Final Position.
COMMENTS: This Notice was ground-generated -- not flight-generated.

Listed as GRB
in final list

MS01

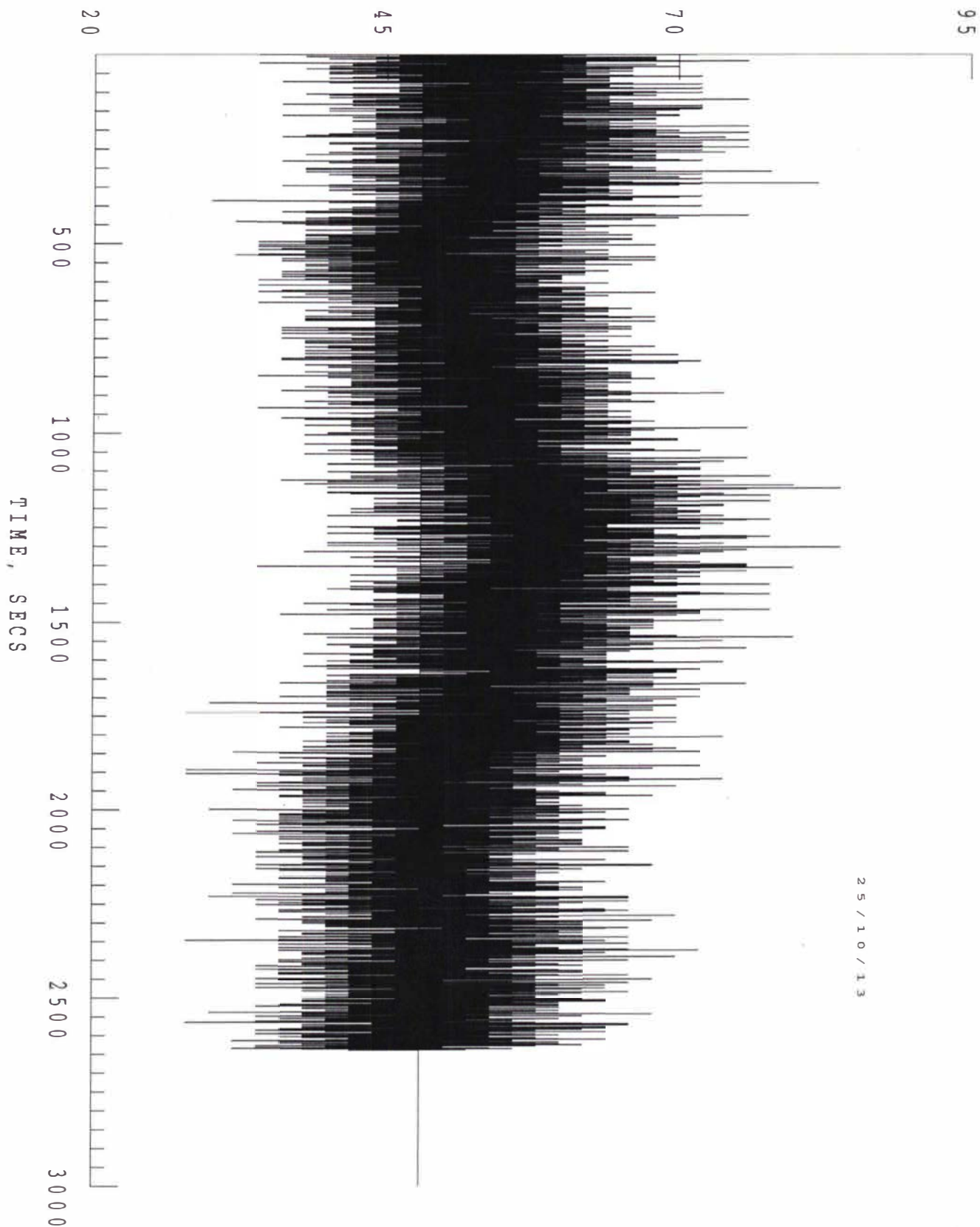
15/05/13

35789.253

~~E~~

50 - 3000 keV

COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 130515_1018

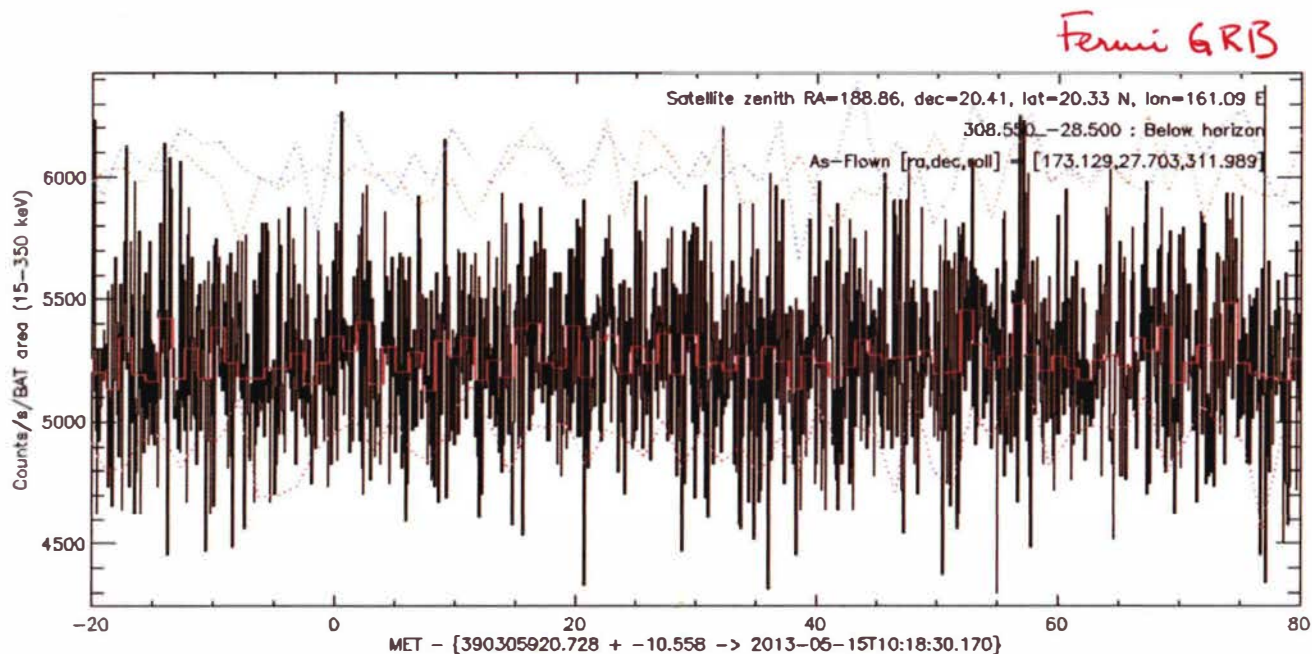
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/15/2013 7:56 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130515_1018.png



```
% /usr/local/bin/swinfo -o 390305920.728 -s 308.550_-28.500
Time(MET + UTCF -> UT): 390305920.728 + -10.558 -> 2013-05-15T10:18:30.170
YYMMDD_SOD: 130515_37110.170 DOY=135
Swift Zenith(RA,dec): 188.86, 20.41
Swift Location(lon,lat,alt): 161.09 E, 20.33 N, 571 km
Obs Sequence Number: 00554620055
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-15 09:54:51 - 10:24:46
Obs Pointing(ra,dec,roll): 173.129, 27.703, 311.99
308.550_-28.500_imageloc (boresight_dist, angle): (141, 60)
308.550_-28.500_exposure (cm^2 cos adjusted): 0
308.550_-28.500_altitude: -12 (down)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130515_1018_bat64ms_ipn

87.1 KB

/tmp/130515_1018.png

19.8 KB

GLAST

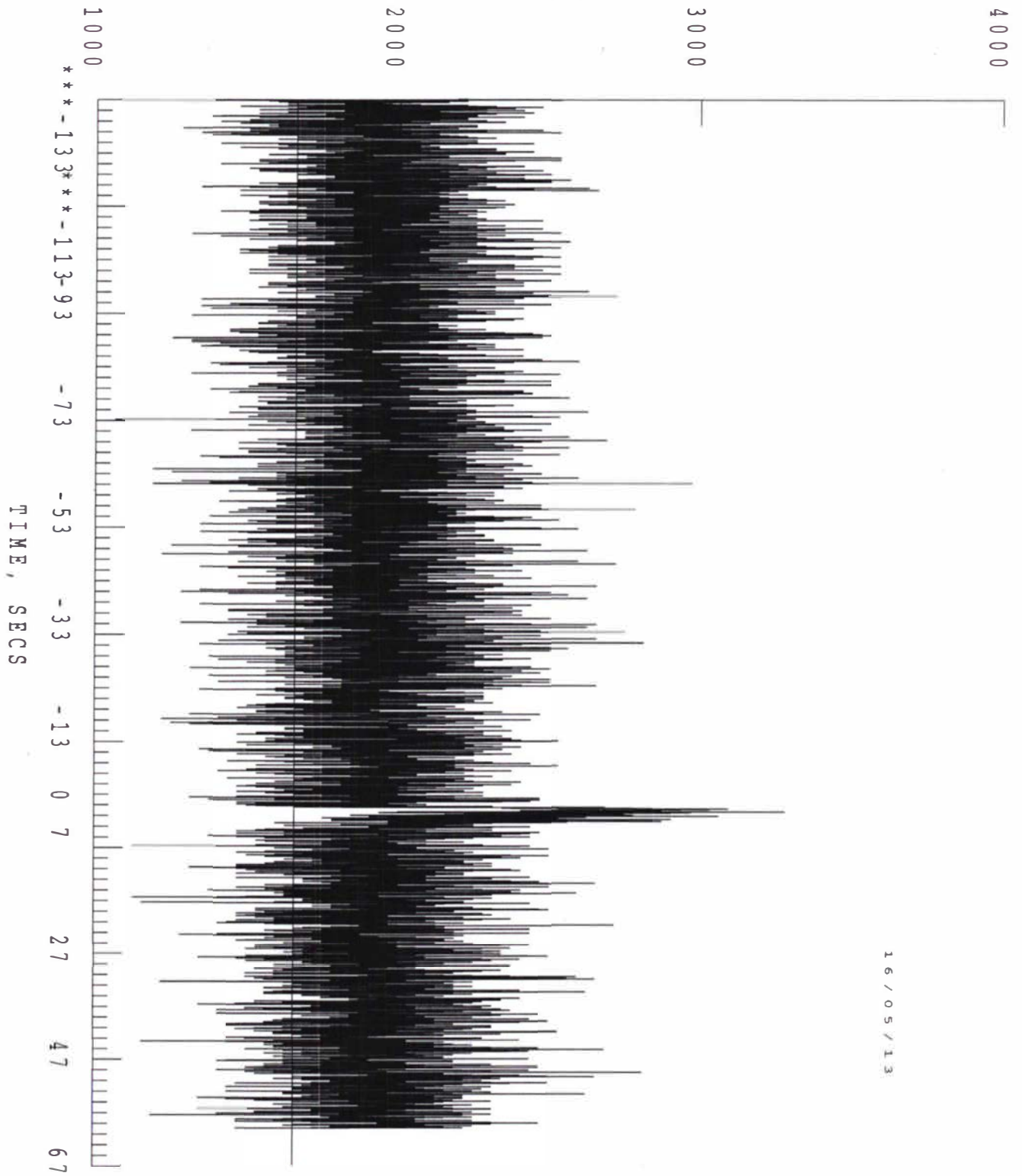
15/05/13

65211.391

F 15/05/13

26 - 293 keV

COUNTS/0.032 S



16/05/13

From vxw@capella2.gsfc.nasa.gov Wed May 15 11:34:14 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Wed, 15 May 2013 14:34:10 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/FERMI_GBM_FINAL_POSITION
X-Barracuda-BRTS-Status: 1

TITLE: GCN/FERMI NOTICE
NOTICE_DATE: Wed 15 May 13 18:34:09 UT
NOTICE_TYPE: Fermi-GBM Final Position
RECORD_NUM: 0
TRIGGER_NUM: 390334014
GRB_RA: 146.770d {+09h 47m 05s} (J2000),
146.949d {+09h 47m 48s} (current),
146.099d {+09h 44m 24s} (1950)
GRB_DEC: +11.260d {+11d 15' 36"} (J2000),
+11.198d {+11d 11' 52"} (current),
+11.492d {+11d 29' 31"} (1950)
GRB_ERROR: 10.50 [deg radius, statistical only]
GRB_DATE: 16427 TJD; 135 DOY; 13/05/15
GRB_TIME: 65211.39 SOD {18:06:51.39} UT
GRB_PHI: 94.99 [deg]
GRB_THETA: 104.96 [deg]
E_RANGE: 50.000 - 300.000 [keV]
LOC_ALGORITHM: 414 (Gnd S/W Version number)
SUN_POSTN: 52.73d {+03h 30m 56s} +19.03d {+19d 02' 05"}
SUN_DIST: 90.28 [deg] Sun_angle= -6.3 [hr] (East of Sun)
MOON_POSTN: 118.93d {+07h 55m 44s} +15.64d {+15d 38' 18"}
MOON_DIST: 27.59 [deg]
MOON_ILLUM: 27 [%]
GAL_COORDS: 223.86, 43.98 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 145.17, -1.98 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: Fermi-GBM Final Position.
COMMENTS: This Notice was ground-generated -- not flight-generated.

U

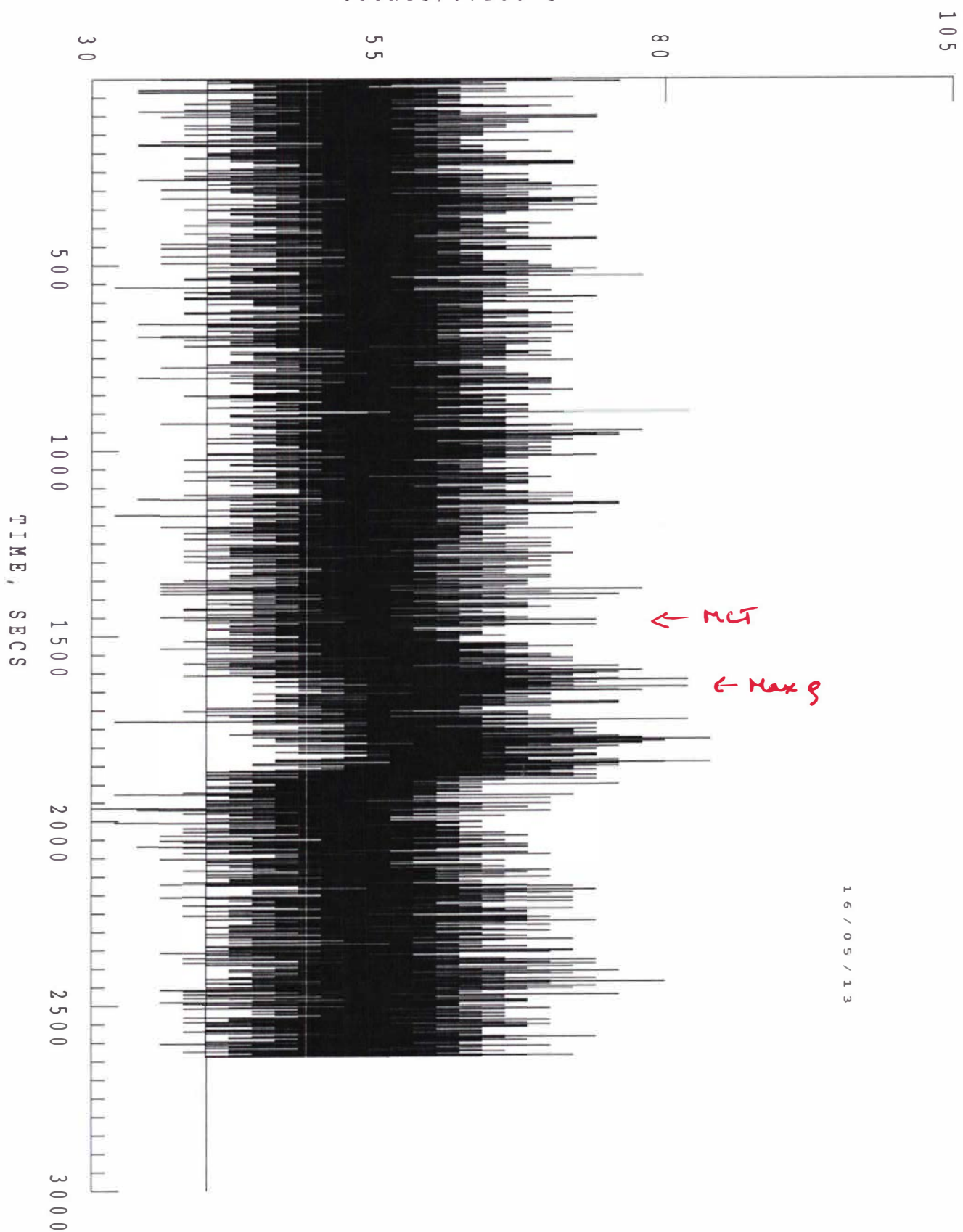
MS01

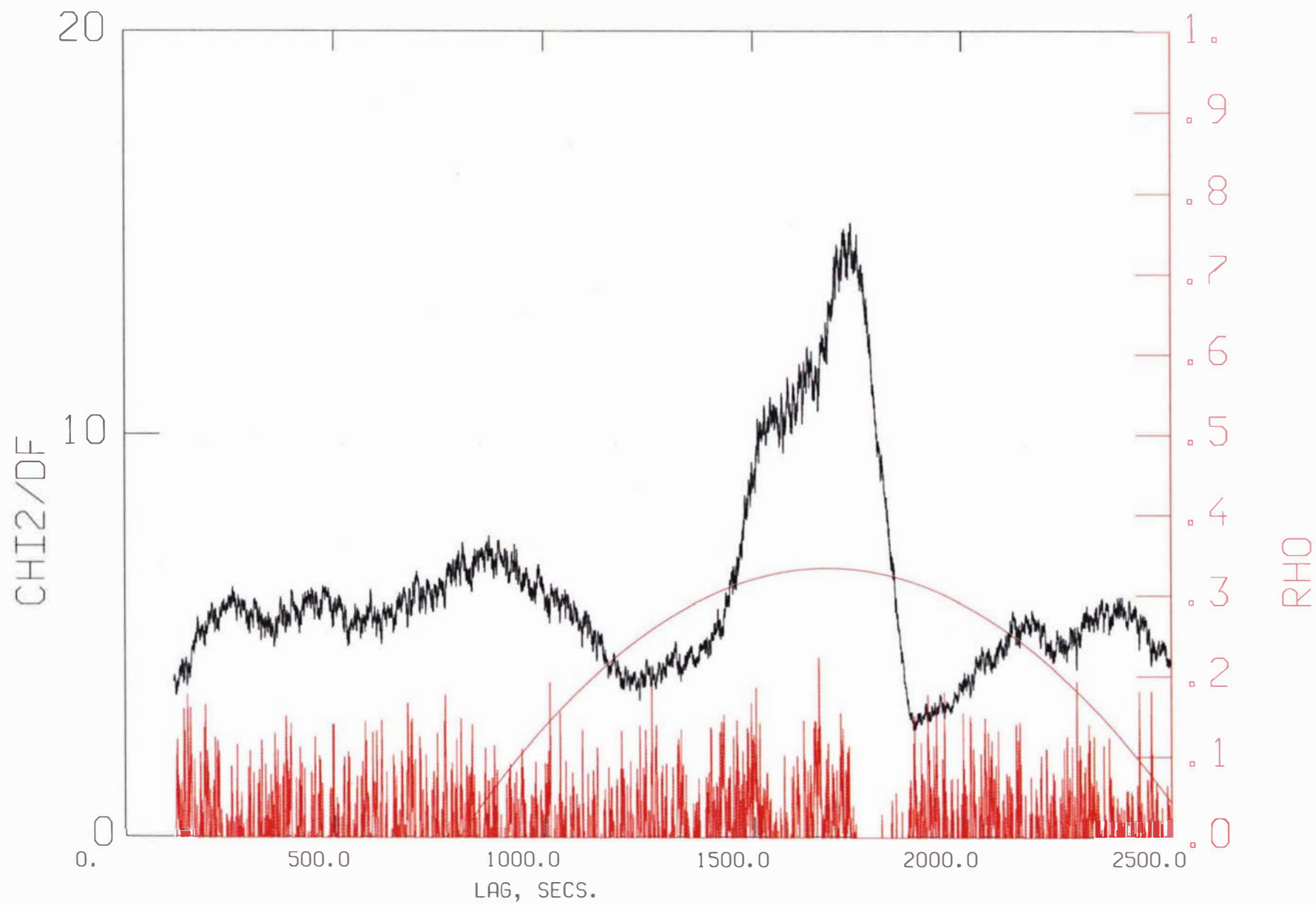
15/05/13

63868.780

50 - 3000 keV

COUNTS/0.250 S





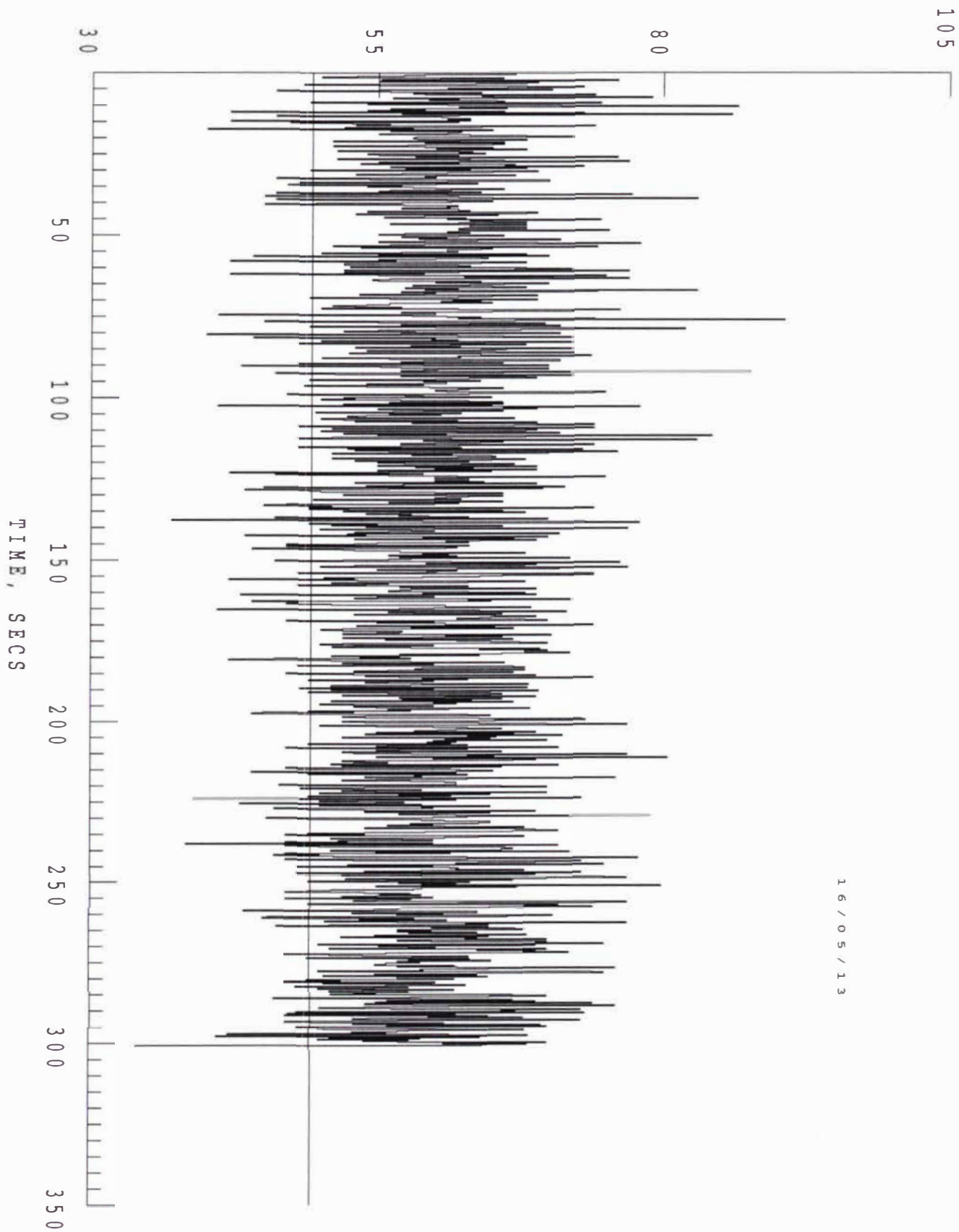
L

HESSI

15/05/13 65060.000 (GLAST_20130515_65211)

25- 150 keV

COUNTS/0.250 S



F 24

Subject: [lpn] BAT lightcurve for trigger at 130515_1806

From: palmer+automatic_lightcurve@lanl.gov

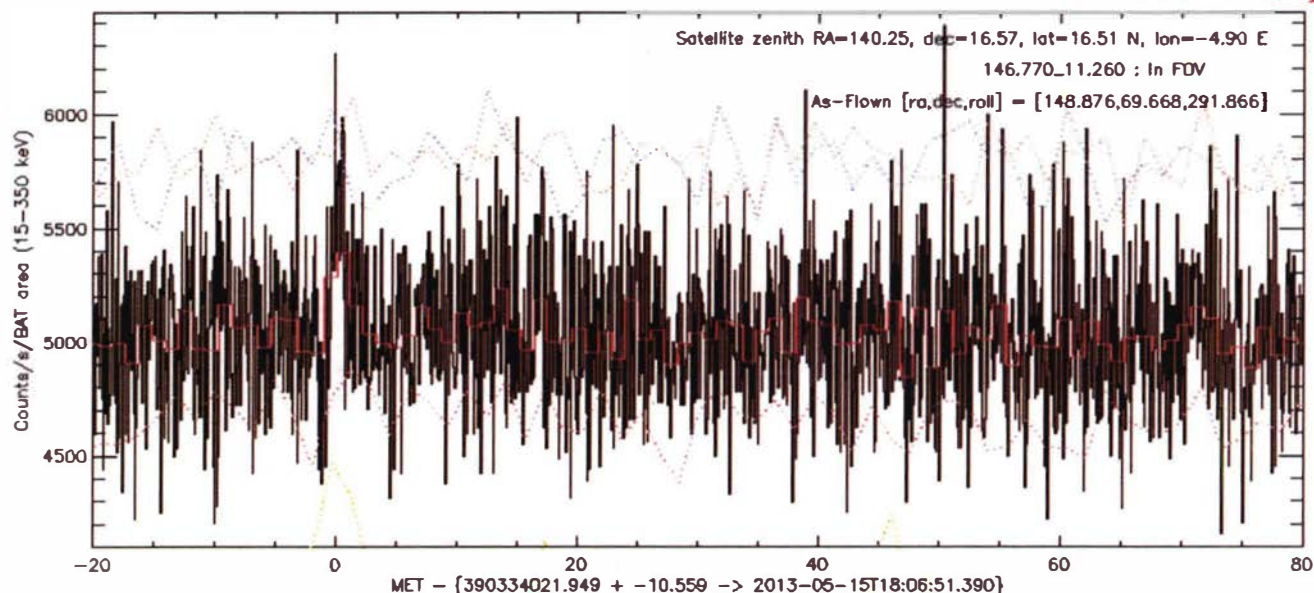
Date: 5/15/2013 5:45 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130515_1806.png

Fermi GRB



```
% /usr/local/bin/swinfo -o 390334021.949 -s 146.770_11.260
Time(MET + UTCF -> UT): 390334021.949 + -10.559 -> 2013-05-15T18:06:51.390
YYMMDD_SOD: 130515_65211.390 DOY=135
Swift Zenith(RA,dec): 140.25, 16.57
Swift Location(lon,lat,alt): -4.90 E, 16.51 N, 579 km
Obs Sequence Number: 00032503055
Obs Target Name: M82 X-1
Obs Date and Times: 2013-05-15 17:55:51 - 18:21:47
Obs Pointing(ra,dec,roll): 148.876, 69.668, 291.87
146.770_11.260_imageloc (boresight_dist, angle): (58, 161)
146.770_11.260_exposure (cm2 cos adjusted): 15
146.770_11.260_altitude: 105 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

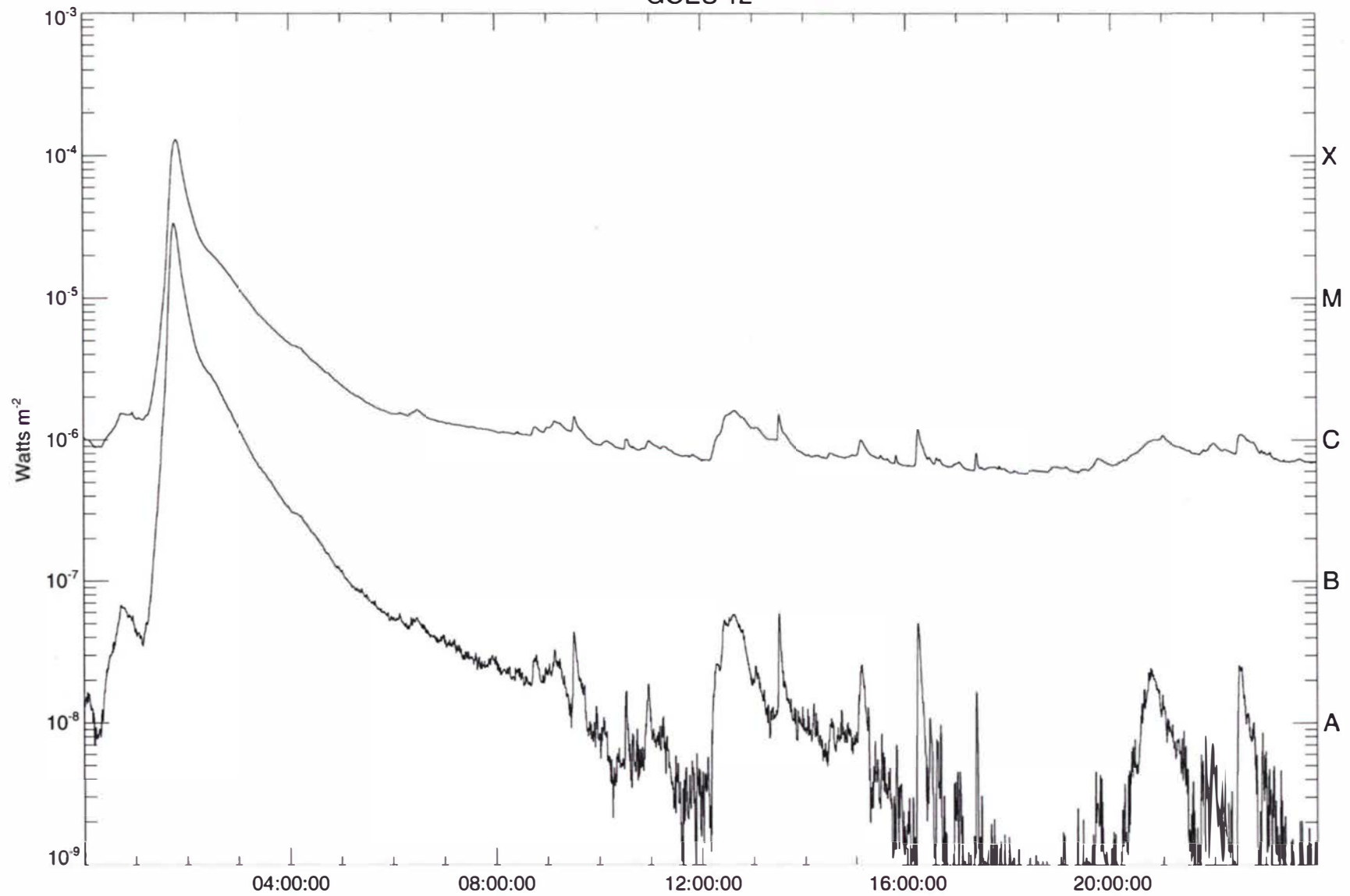
/tmp/130515_1806_bat64ms_ipn

87.0 KB

/tmp/130515_1806.png

19.7 KB

GOES 12



Data Start: 13/05/15, 0000:12

Plot created: 13/05/18, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

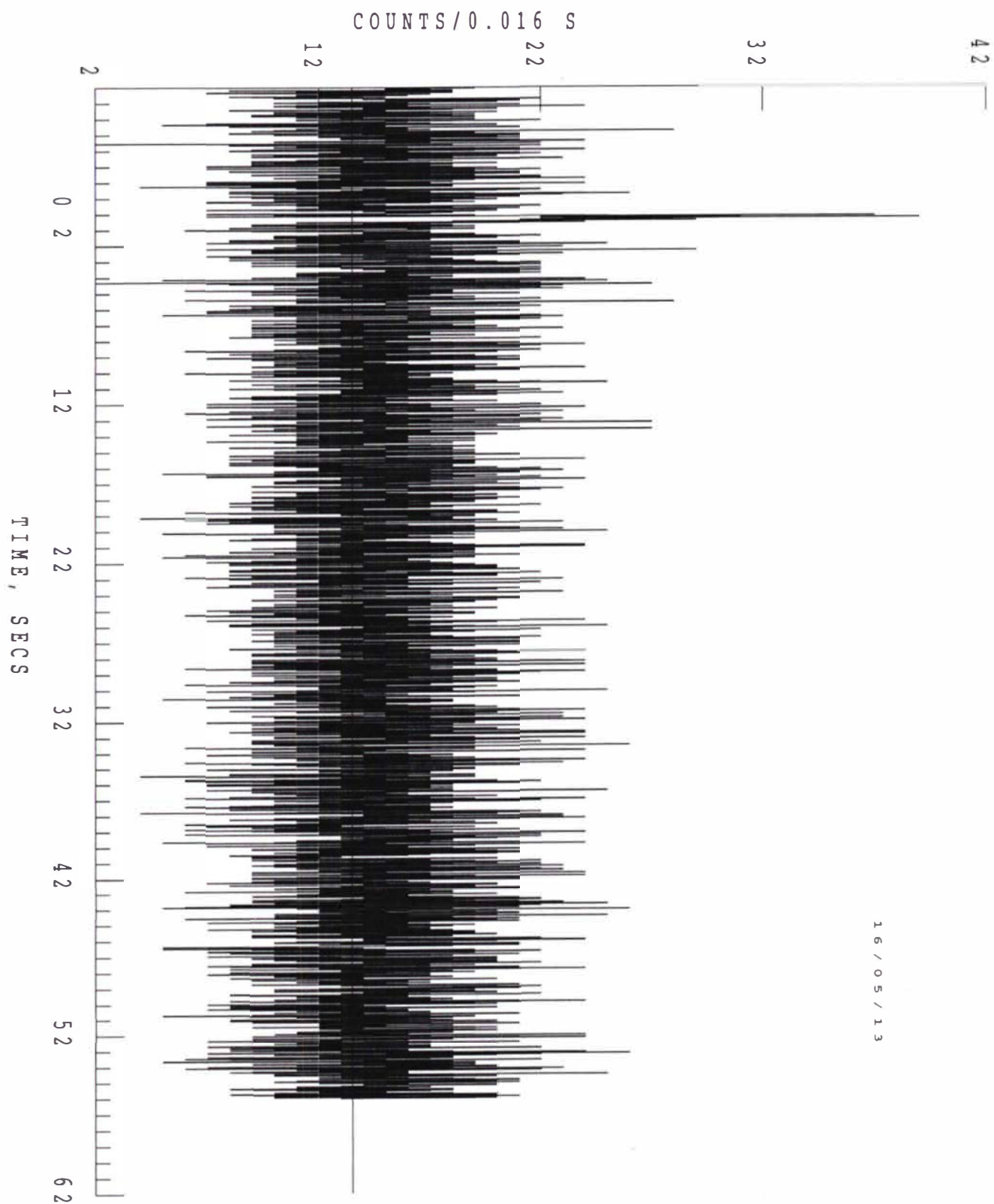
SUZAKU

16/05/13

48527.161

13:28:47

50 - 240 keV



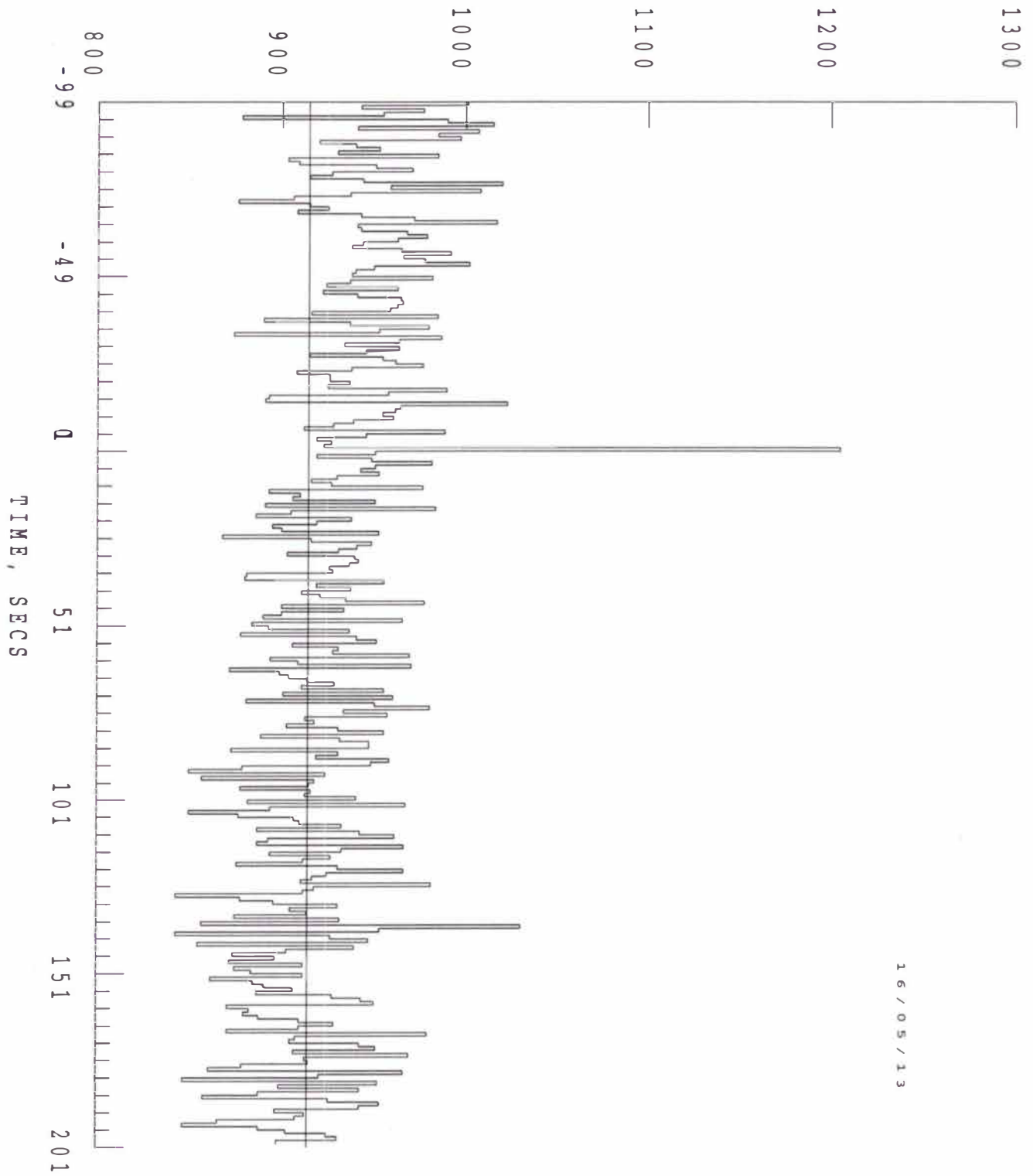
SUZAKU

16/05/13

48526.661

50 - 240 keV

COUNTS/1.000 S



16/05/13

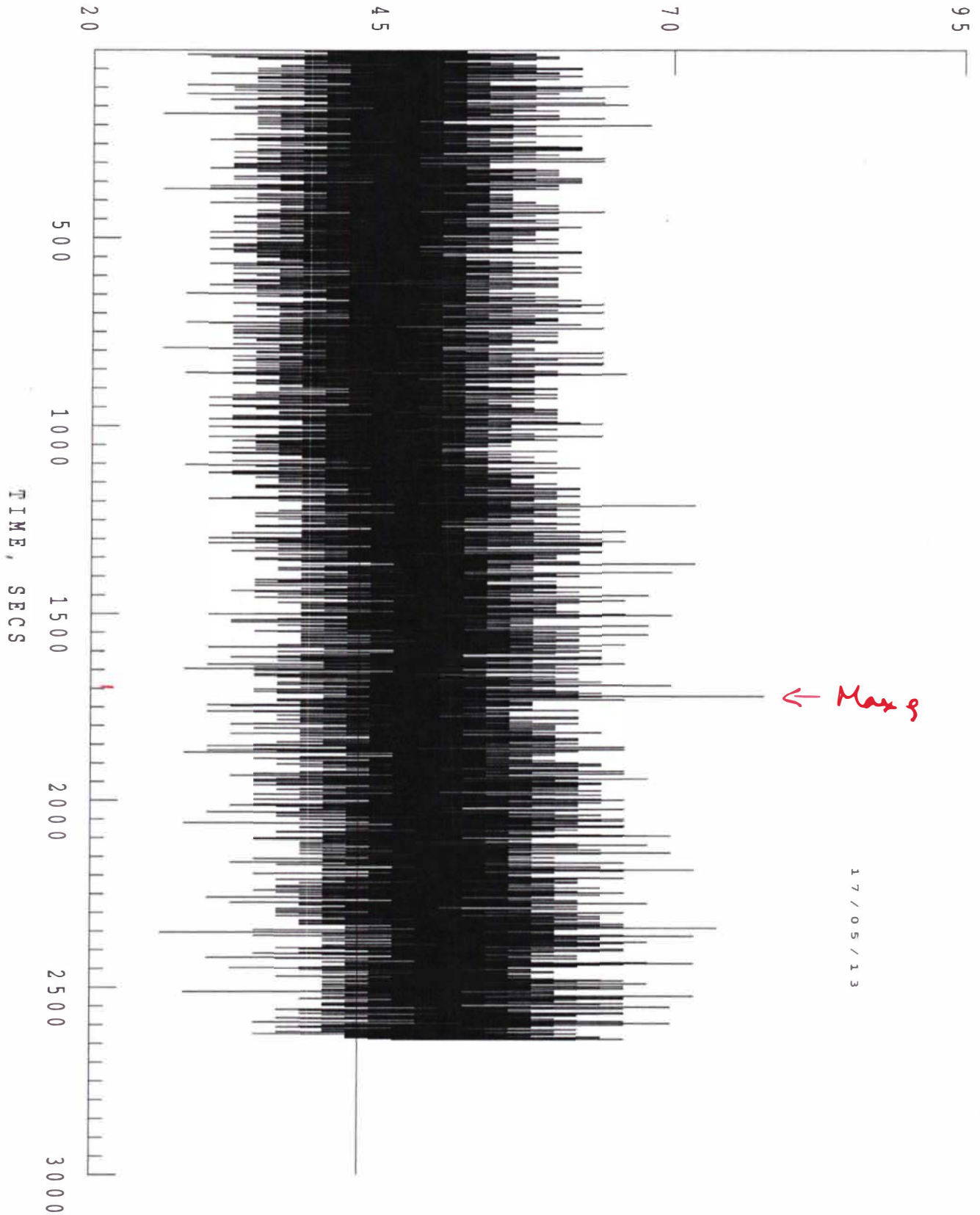
MS01

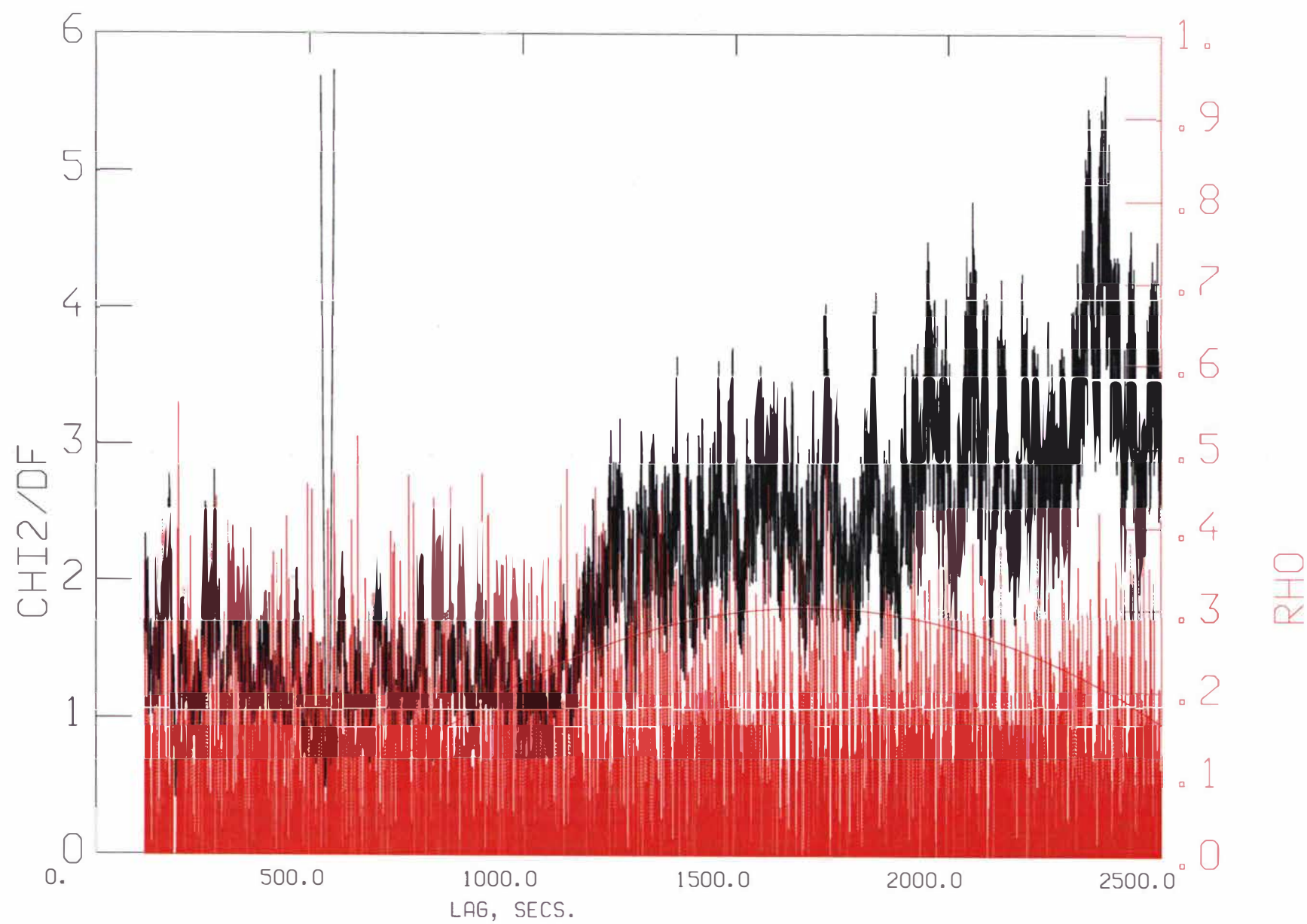
16/05/13

47188.088

50 - 3000 keV

COUNTS/0.250 S





From williams@gammaburst.ssl.berkeley.edu Thu May 16 11:57:00 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
v-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Thu, 16 May 2013 11:57:00 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20130516_48527
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 16-May-2013 11:55:42.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

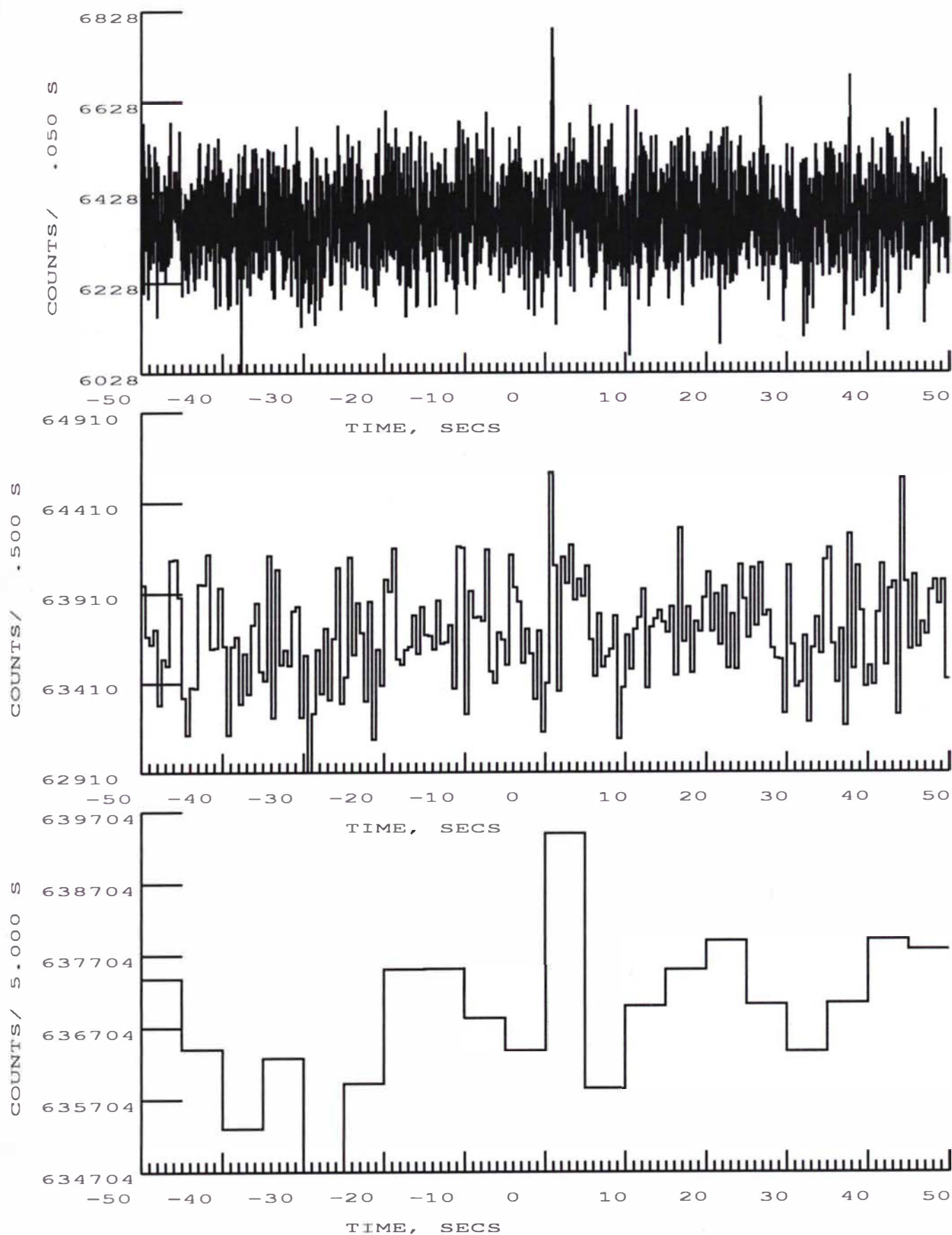
INTEGRAL

16/05/13

48527.000

13:28:47.0

25/10/13



Subject: [Ipn] BAT lightcurve for trigger at 130516_1328

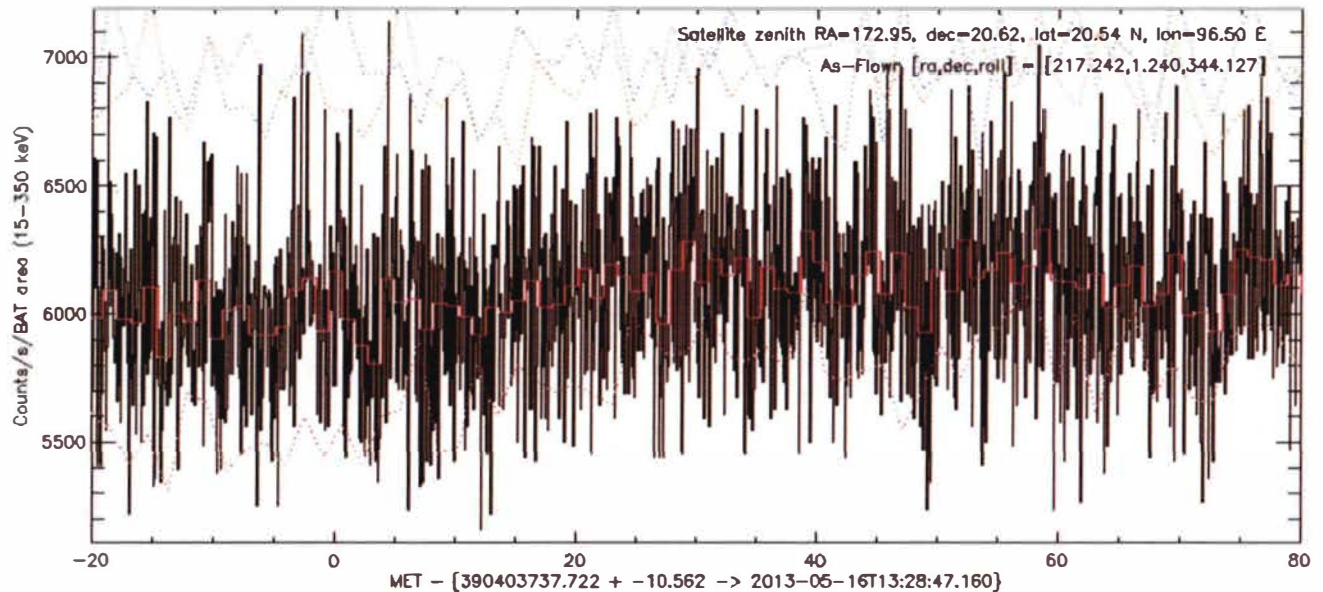
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/16/2013 9:15 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130516_1328.png



```
% /usr/local/bin/swinfo -o 390403737.722
Time(MET + UTCF -> UT): 390403737.722 + -10.562 -> 2013-05-16T13:28:47.160
YYMMDD_SOD: 130516_48527.160 DOY=136
Swift Zenith(RA,dec): 172.95, 20.62
Swift Location(lon,lat,alt): 96.50 E, 20.54 N, 574 km
Obs Sequence Number: 00091700022
Obs Target Name: PG 1426+015
Obs Date and Times: 2013-05-16 13:27:51 - 13:35:47
Obs Pointing(ra,dec,roll): 217.242, 1.240, 344.13
```

David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130516_1328_bat64ms_ipn	87.0 KB
/tmp/130516_1328.png	20.2 KB

Subject: [Ipn] BAT lightcurve for trigger at 130516_2139

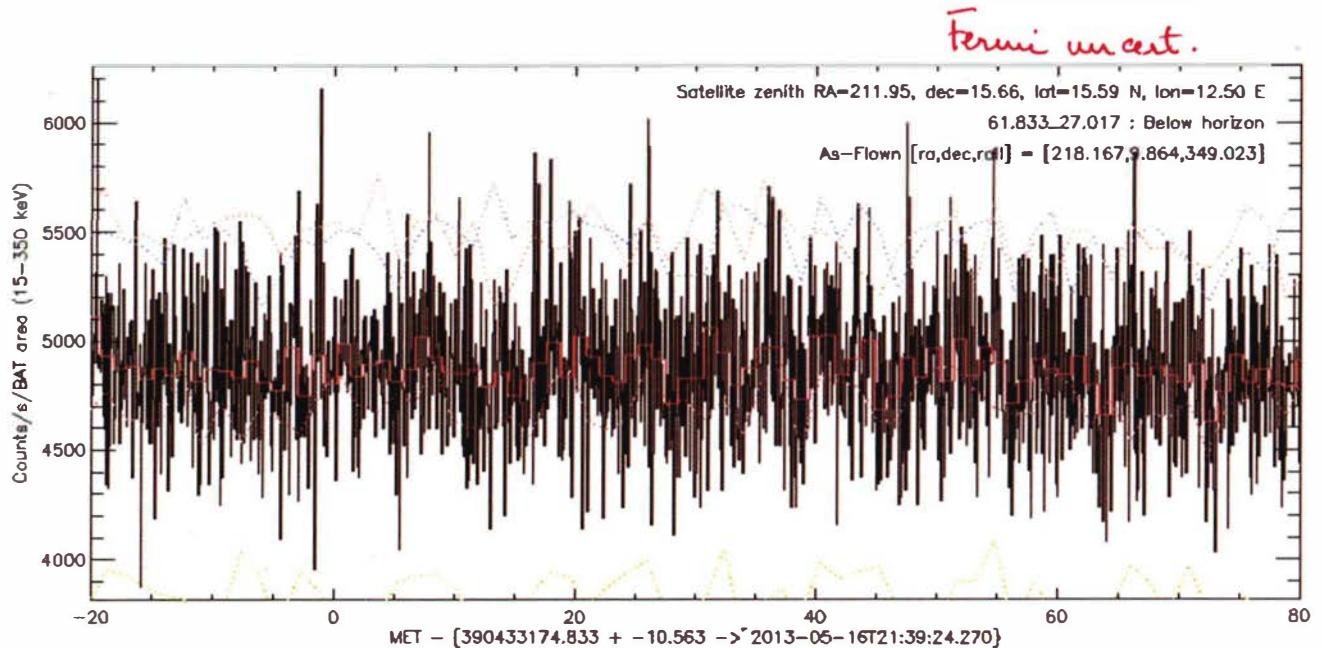
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/16/2013 11:16 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130516_2139.png



```
% /usr/local/bin/swinfo -o 390433174.833 -s 61.833_27.017
Time(MET + UTCF -> UT): 390433174.833 + -10.563 -> 2013-05-16T21:39:24.270
YYMMDD_SOD: 130516_77964.270 DOY=136
Swift Zenith(RA,dec): 211.95, 15.66
Swift Location(lon,lat,alt): 12.50 E, 15.59 N, 570 km
Obs Sequence Number: 00032725020
Obs Target Name: PSNJ1432+0953
Obs Date and Times: 2013-05-16 21:28:51 - 21:41:48
Obs Pointing(ra,dec,roll): 218.167, 9.864, 349.02
61.833_27.017_imageloc (boresight_dist, angle): (137, -110)
61.833_27.017_exposure (cm^2 cos adjusted): 0
61.833_27.017_altitude: -15 (down)
```

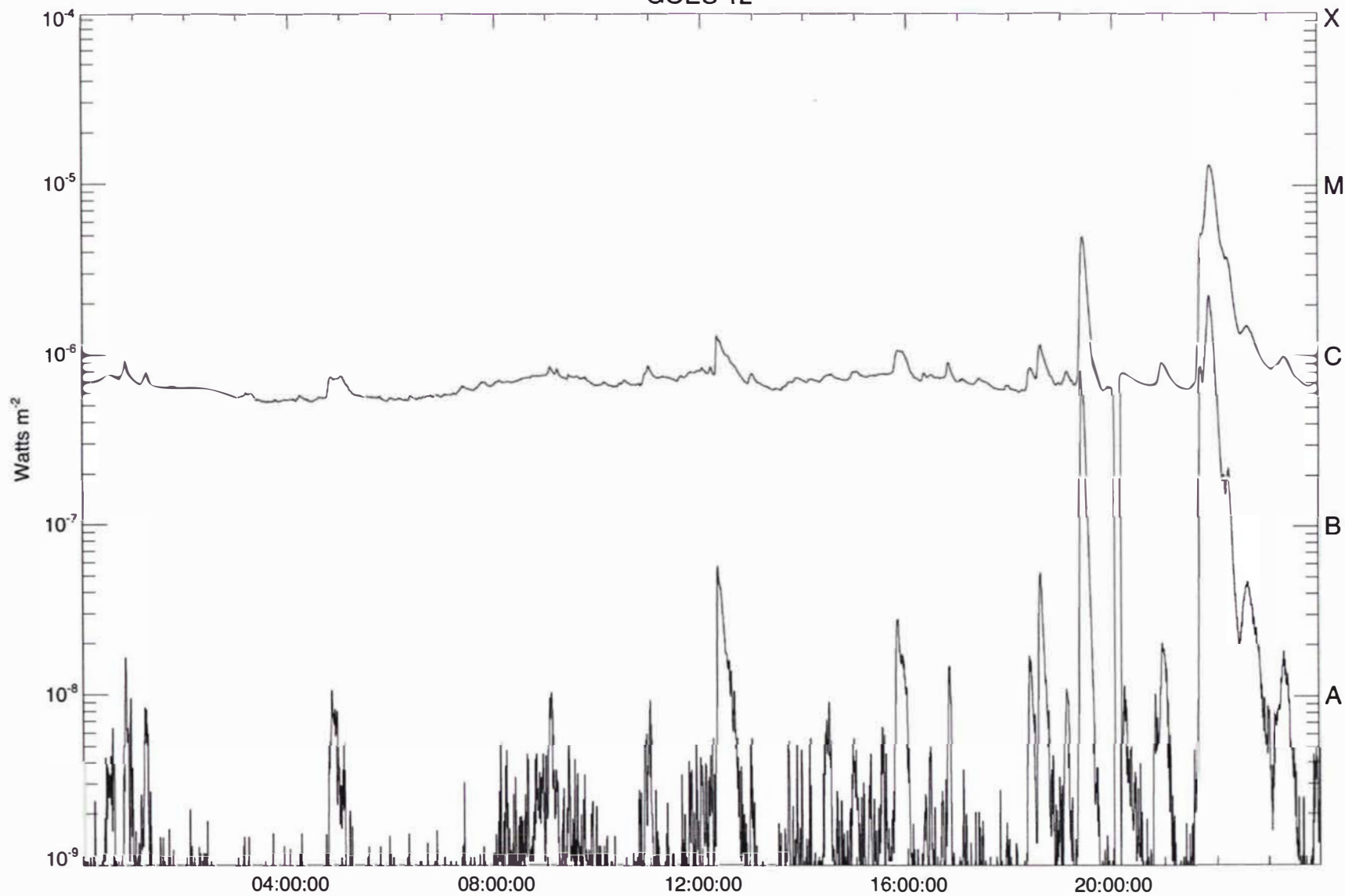
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130516_2139.png	20.3 KB
/tmp/130516_2139_bat64ms_ipn	87.0 KB

GOES 12



Data Start: 13/05/16, 0000:13

Plot created: 13/05/19, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

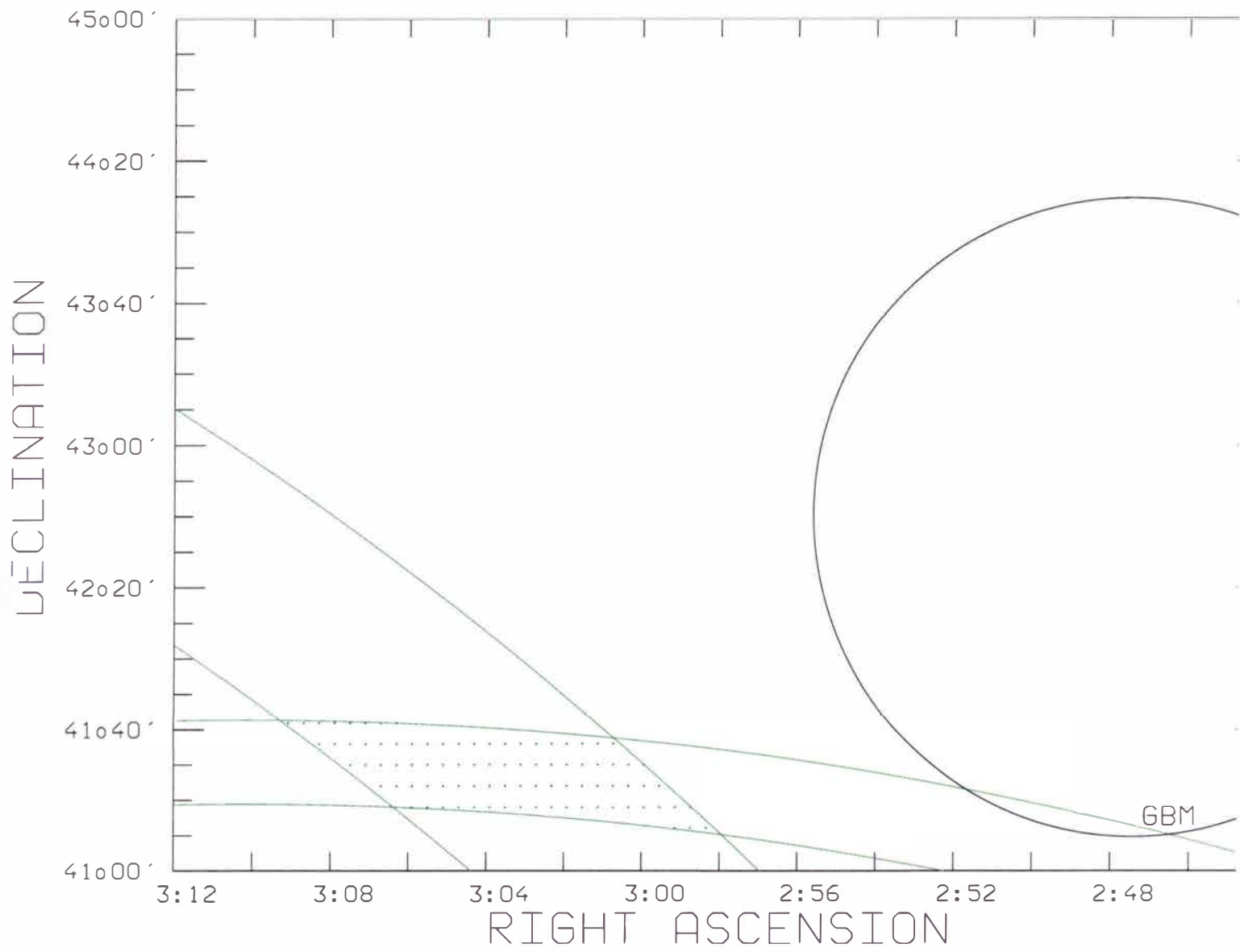
2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

GRB130517 ~67453 S

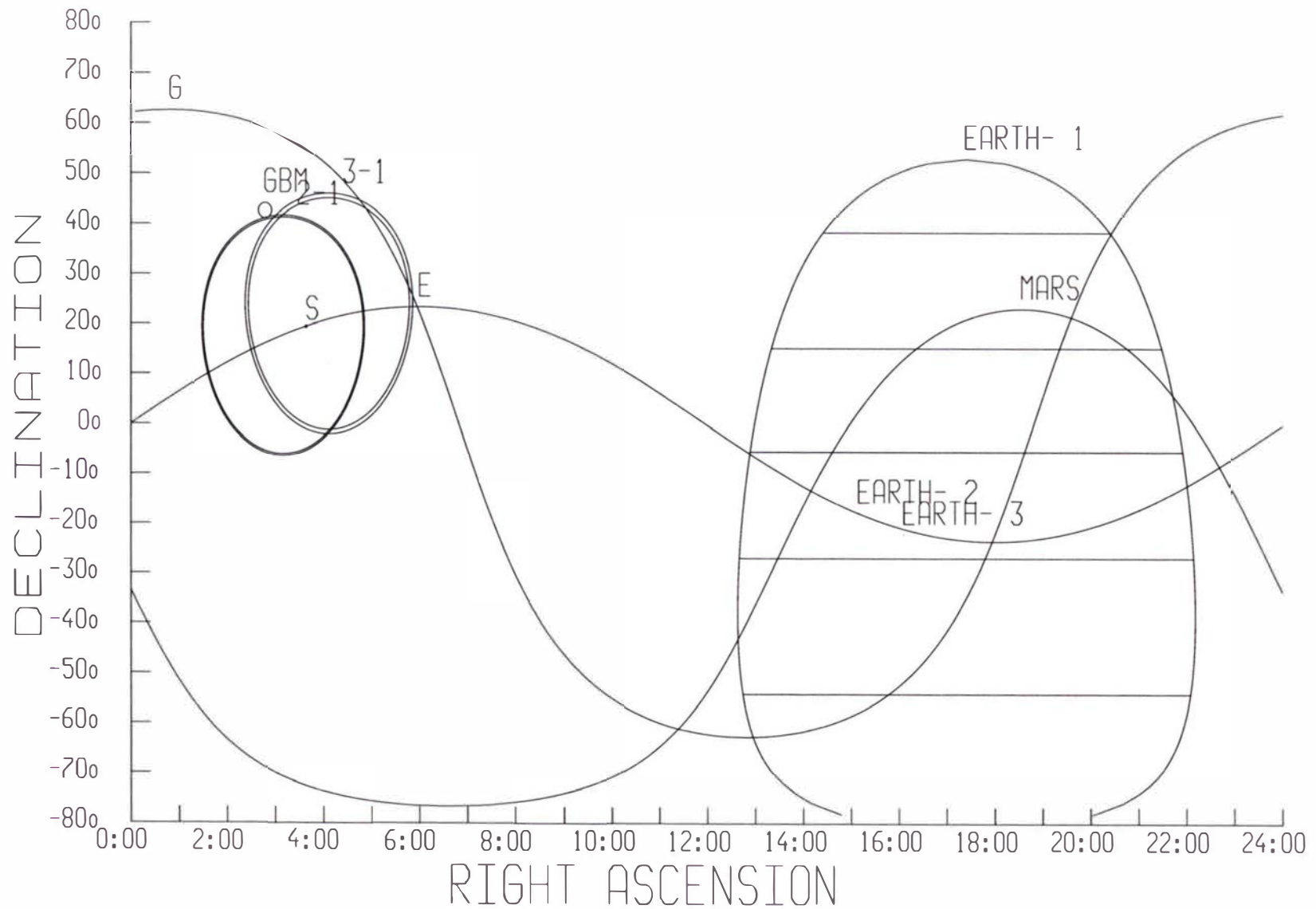
06/08/20

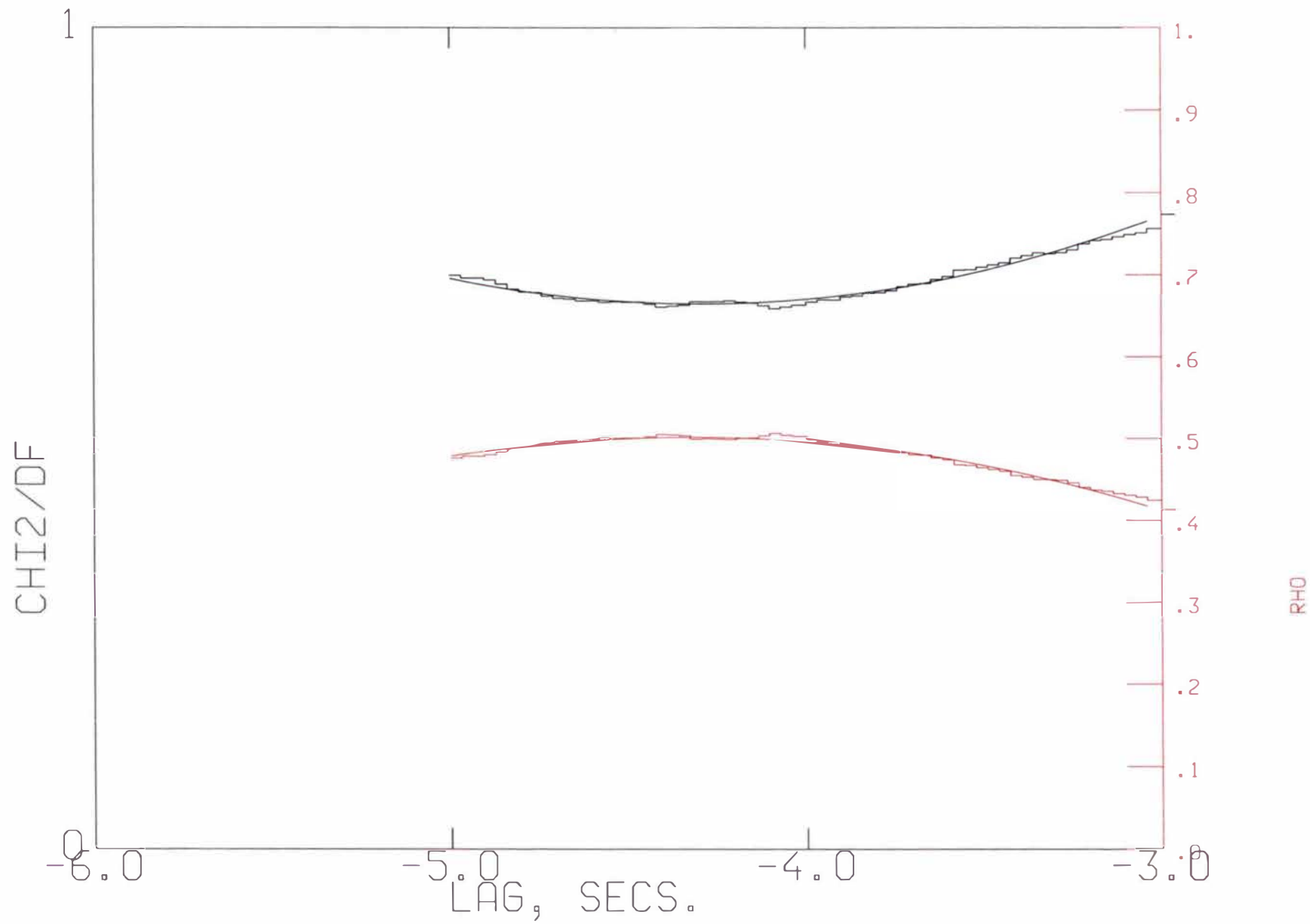


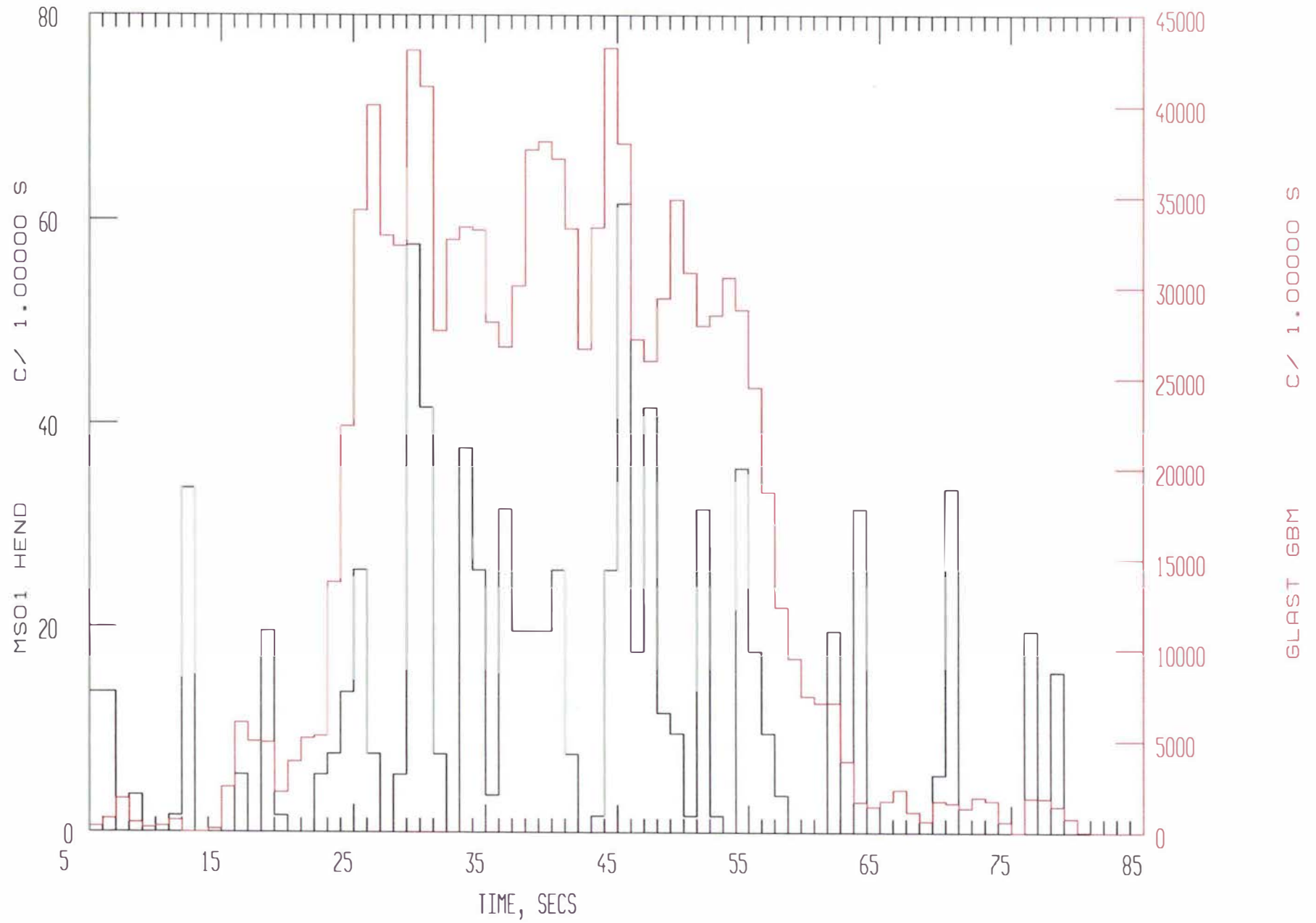
EVENT OF MAY 17, 2013 18:44

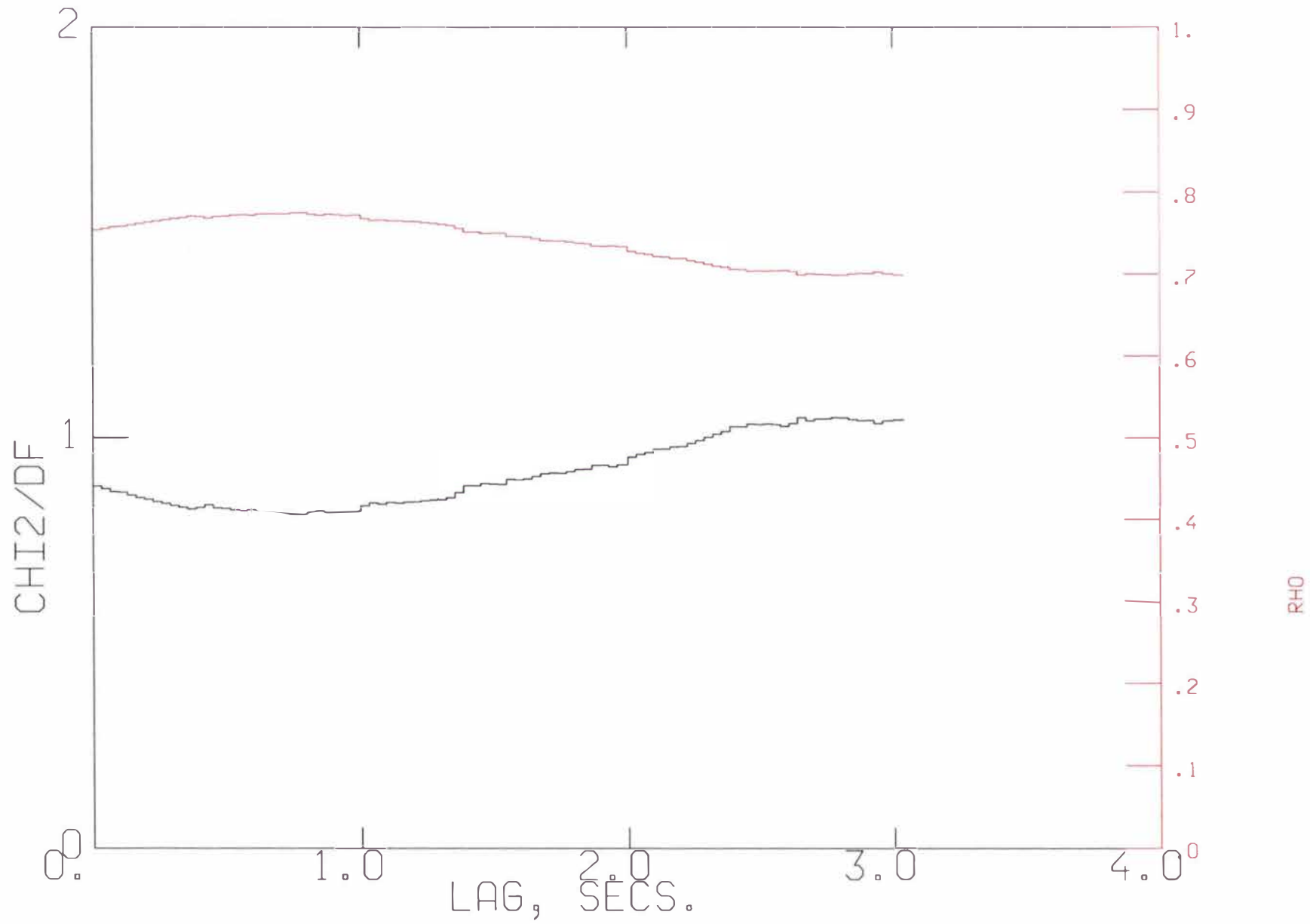
06/08/2015

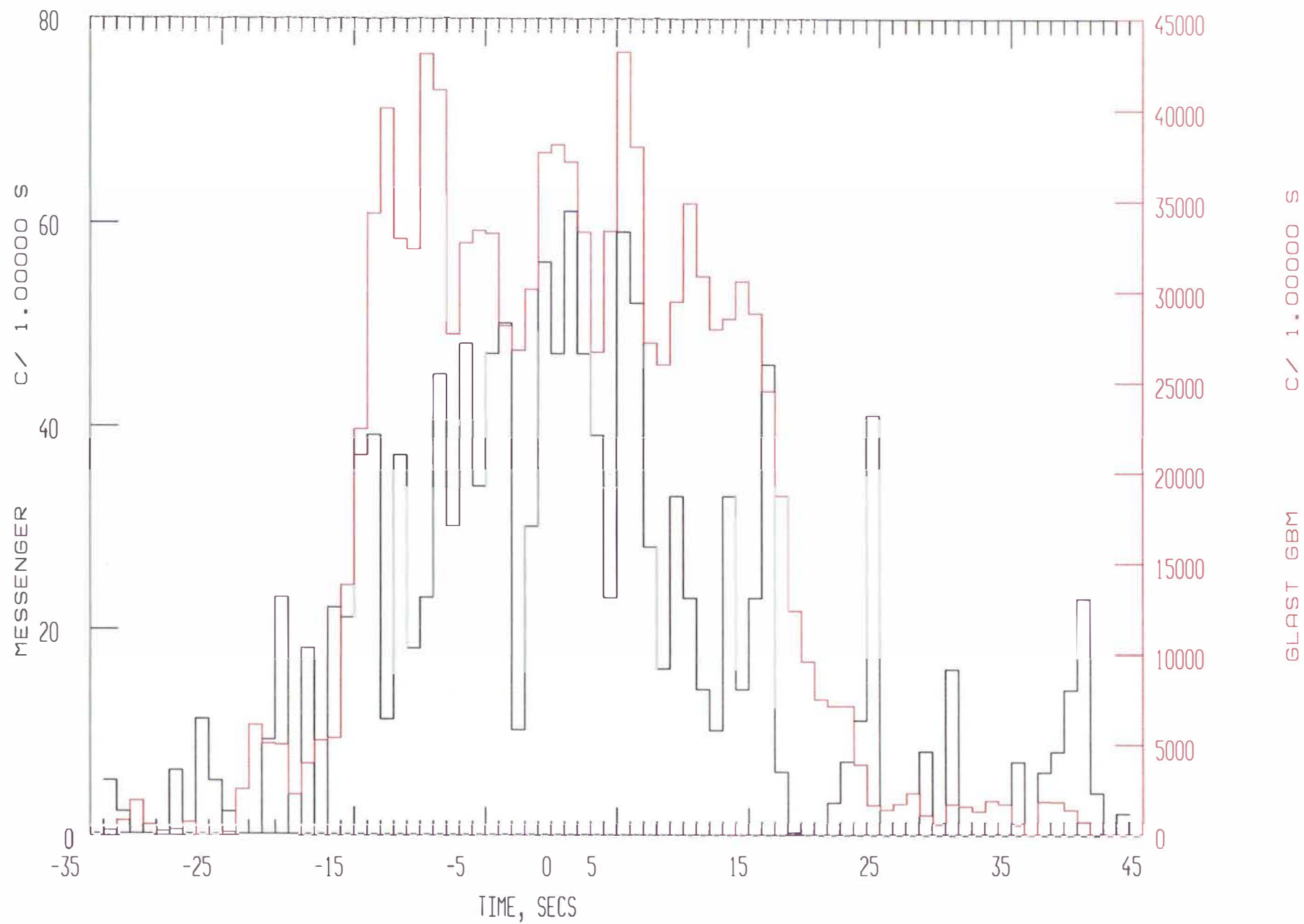
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN
E=ECLIPTIC
G=GALACTIC EQUATOR
1 FERMI
2 MO
3 MESSENGER











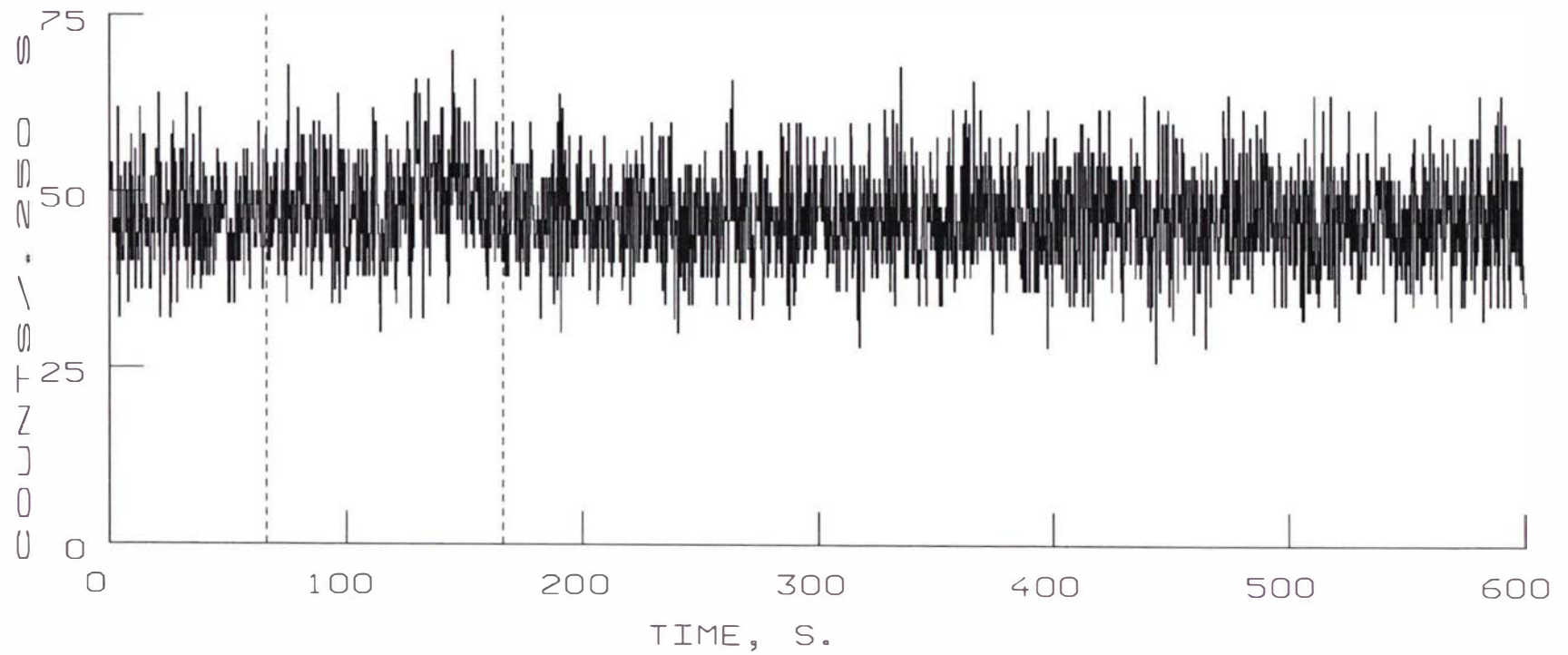
MS01 HEND

06/08/2015

17/05/2013 66205.867 s

50-3000 keV

N= 10 M=60
>4.0 SIGMA FLUCTUATIONS



From vxw@capella2.gsfc.nasa.gov Fri May 17 13:32:32 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Fri, 17 May 2013 16:32:30 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/FERMI_GBM_FINAL_POSITION
X-Barracuda-BRTS-Status: 1

TITLE: GCN/FERMI NOTICE
NOTICE_DATE: Fri 17 May 13 20:32:29 UT
NOTICE_TYPE: Fermi-GBM Final Position
RECORD_NUM: 0
TRIGGER_NUM: 390509055
GRB_RA: 41.860d {+02h 47m 26s} (J2000),
42.077d {+02h 48m 19s} (current),
41.050d {+02h 44m 12s} (1950)
GRB_DEC: +42.660d {+42d 39' 36"} (J2000),
+42.715d {+42d 42' 55"} (current),
+42.451d {+42d 27' 05"} (1950)
GRB_ERROR: 1.50 [deg radius, statistical only]
GRB_DATE: 16429 TJD; 137 DOY; 13/05/17
GRB_TIME: 67452.98 SOD {18:44:12.98} UT
GRB_PHI: 331.07 [deg]
GRB_THETA: 15.89 [deg]
E_RANGE: 50.000 - 300.000 [keV]
LOC_ALGORITHM: 414 (Gnd S/W Version number)
SUN_POSTN: 54.80d {+03h 39m 12s} +19.51d {+19d 30' 23"}
SUN_DIST: 25.57 [deg] Sun_angle= 0.8 [hr] (West of Sun)
MOON_POSTN: 143.71d {+09h 34m 49s} +8.83d {+08d 49' 31"}
MOON_DIST: 92.42 [deg]
MOON_ILLUM: 47 [%]
GAL_COORDS: 144.62, -15.27 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 52.73, 25.25 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: Fermi-GBM Final Position.
COMMENTS: This Notice was ground-generated -- not flight-generated.

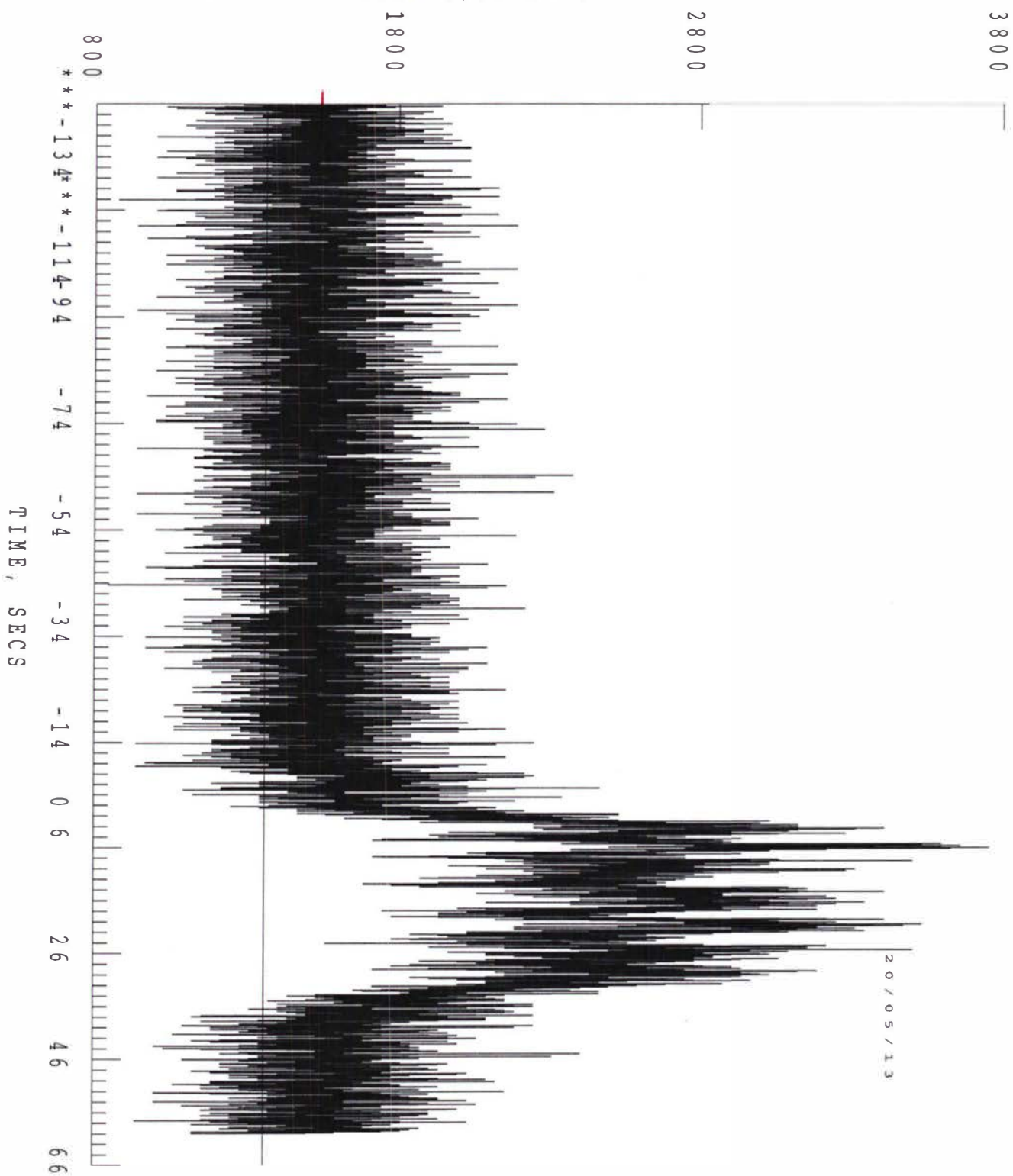
GLAST

17/05/13

67452.981

26- 293 keV

COUNTS/0.032 S

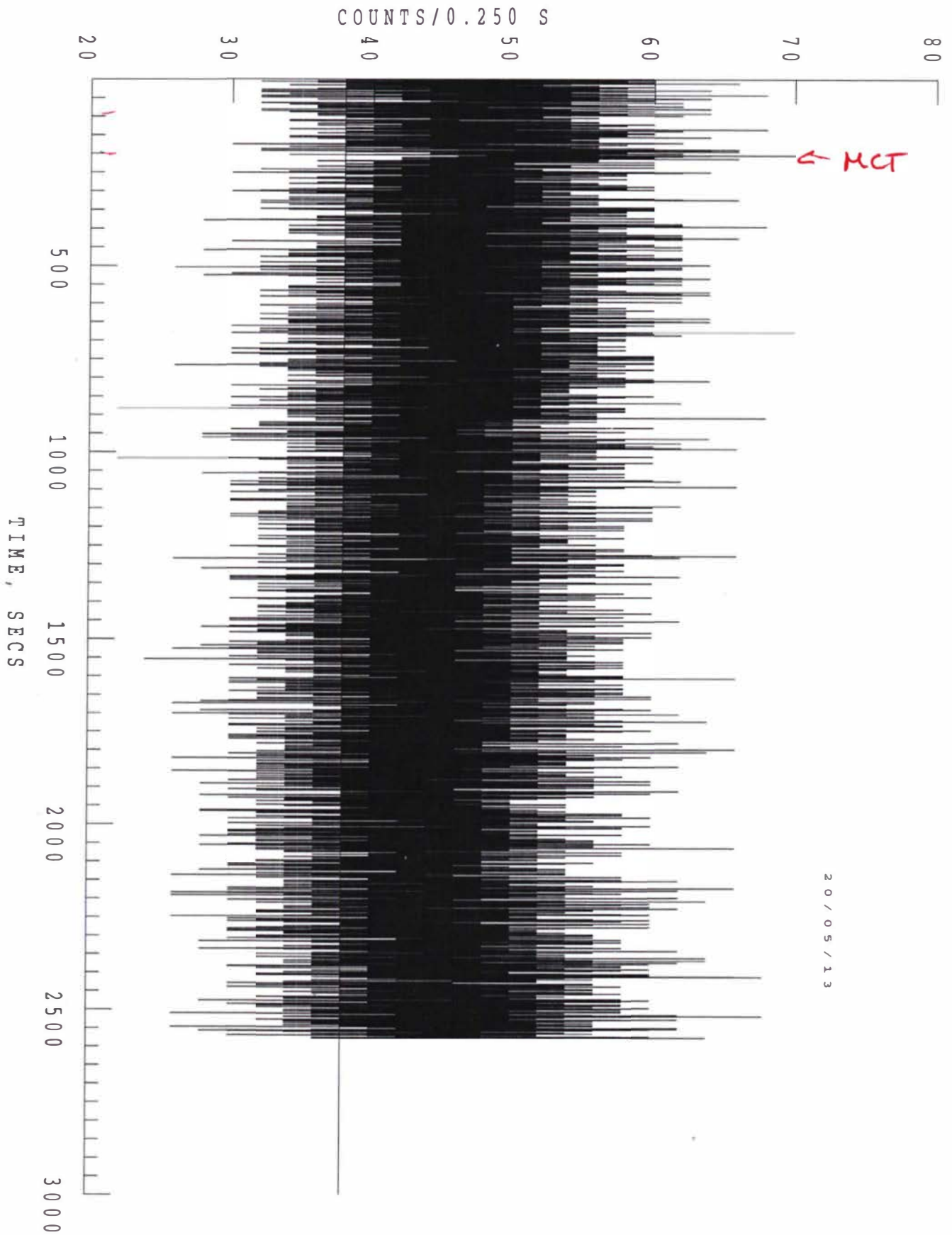


MS01

17/05/13

66145.865

50 - 3000 keV

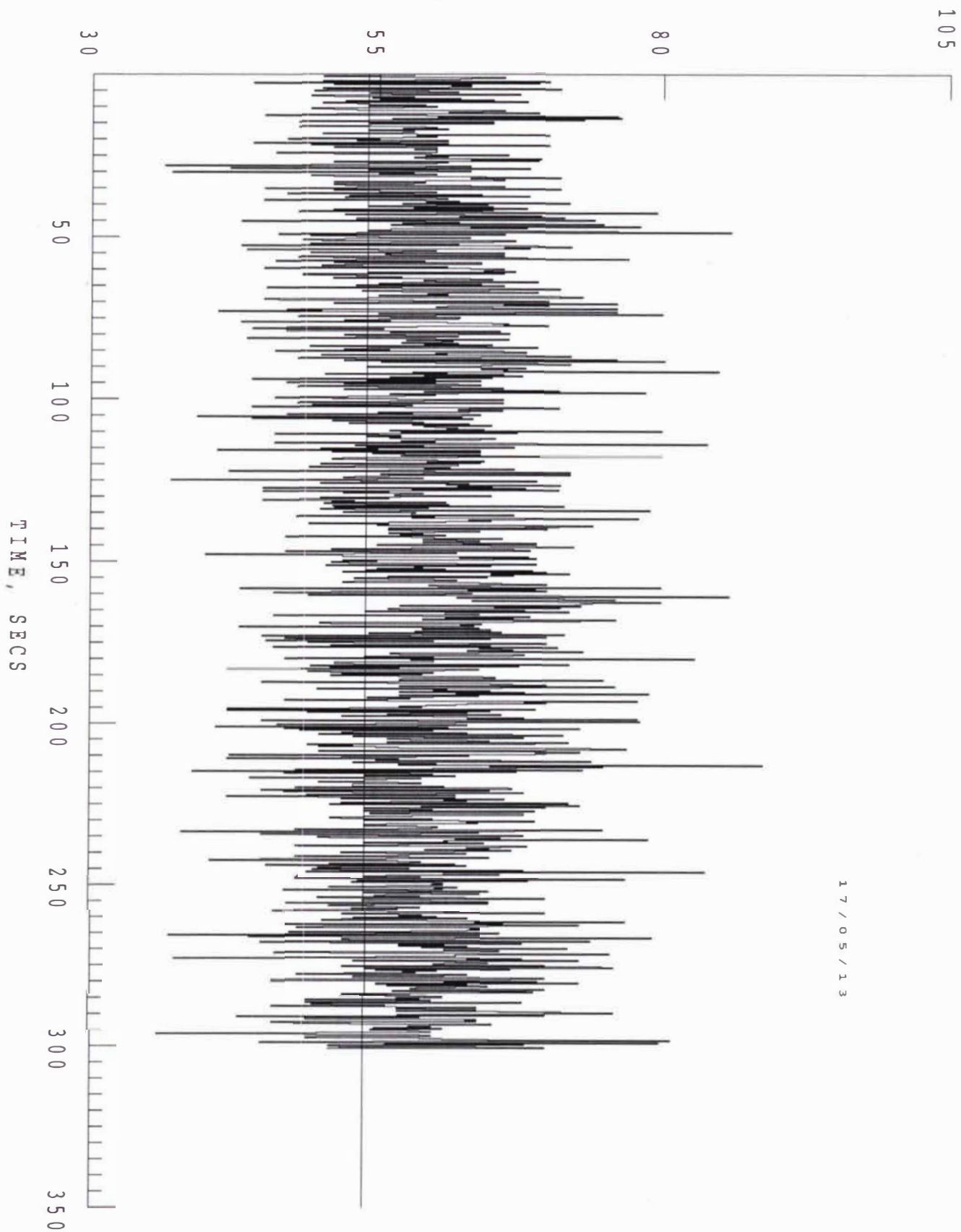


HESSI

17/05/13 67302.000 (SUZAKU_20130517_67453)

25- 150 keV

COUNTS/0.250 S



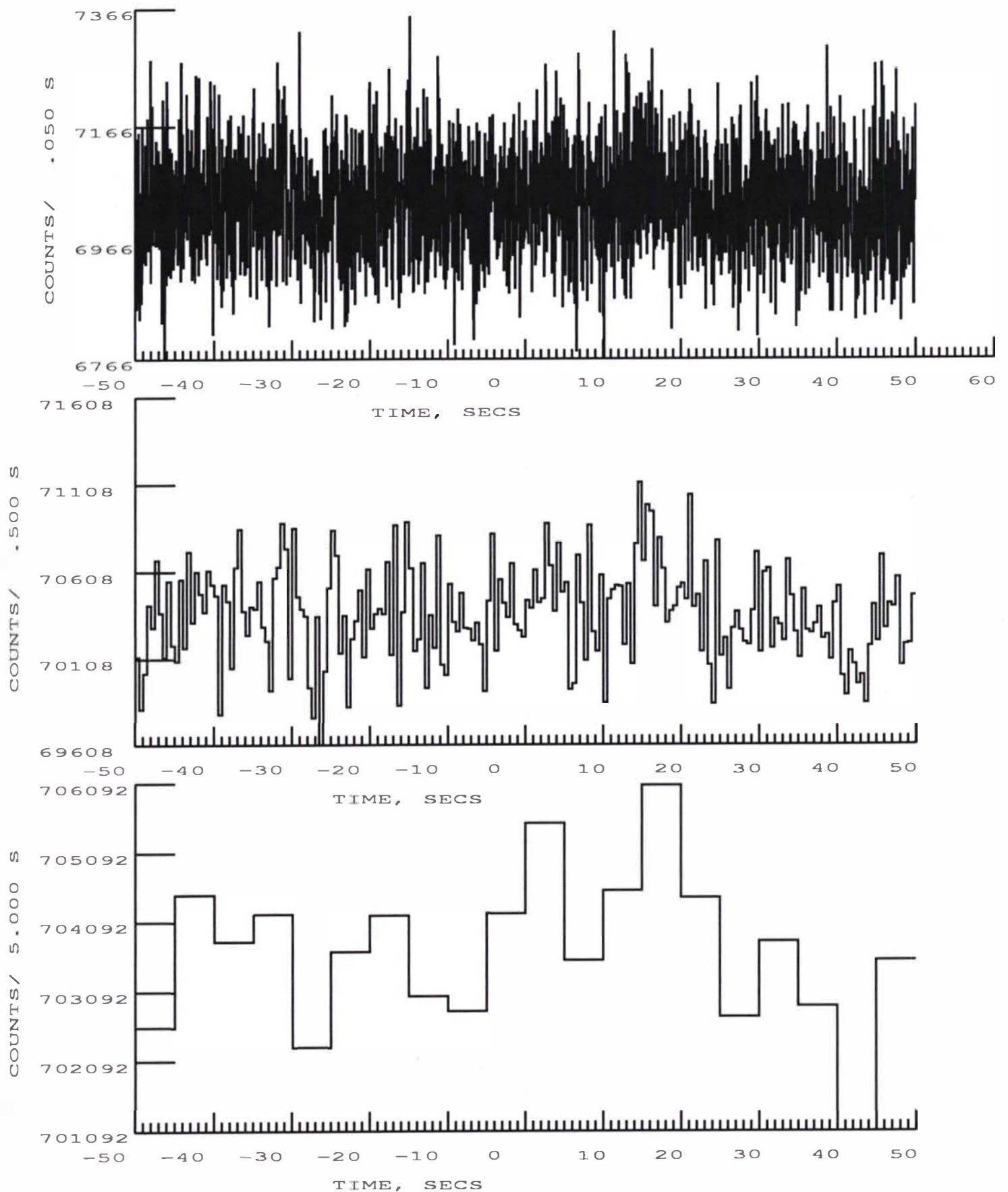
INTEGRAL

17/05/13

67452.000

18:44:12.0

25/10/13



Subject: [Ipn] BAT lightcurve for trigger at 130517_1844

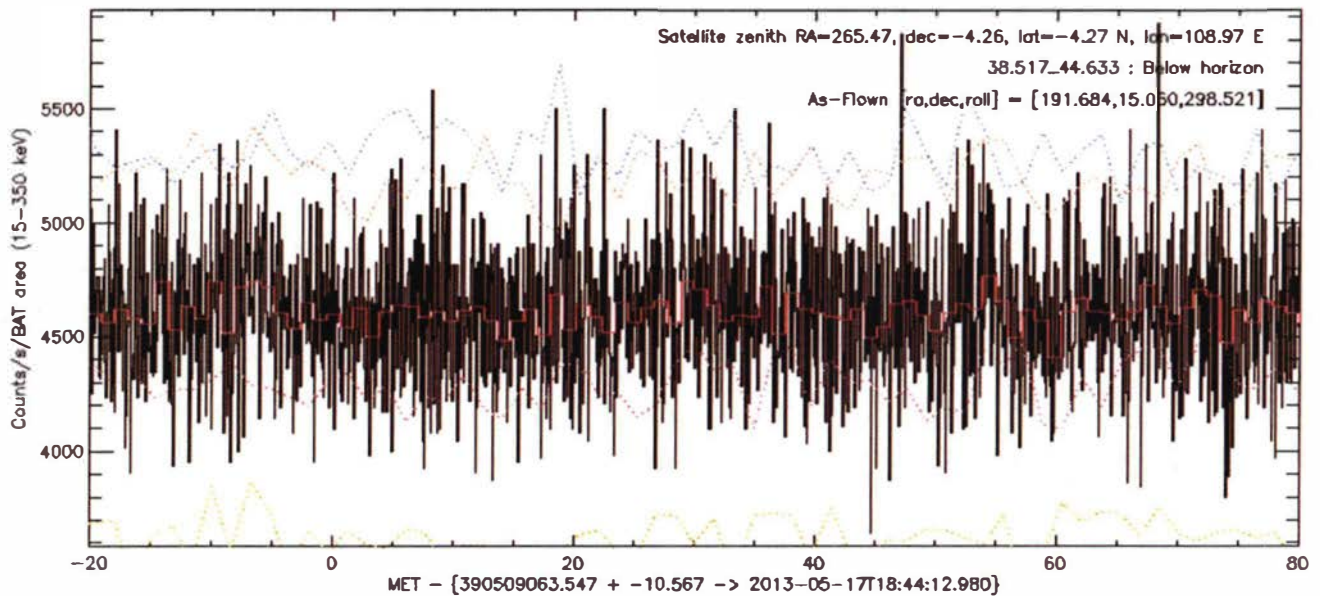
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/17/2013 5:48 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130517_1844.png



```
% /usr/local/bin/swinfo -o 390509063.547 -s 38.517_44.633
Time(MET + UTCF -> UT): 390509063.547 + -10.567 -> 2013-05-17T18:44:12.980
YYMMDD_SOD: 130517_67452.980 DOY=137
Swift Zenith(RA,dec): 265.47, -4.26
Swift Location(lon,lat,alt): 108.97 E, -4.27 N, 568 km
Obs Sequence Number: 00032826001
Obs Target Name: N/A
Obs Date and Times: 2013-05-17 18:41:20 - 18:46:28
Obs Pointing(ra,dec,roll): 191.684, 15.060, 298.52
38.517_44.633_imageloc (boresight_dist, angle): (116, -49)
38.517_44.633_exposure (cm2 cos adjusted): 0
38.517_44.633_altitude: -9 (down)
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130517_1844.png

20.3 KB

/tmp/130517_1844_bat64ms_ipn

87.0 KB

25/10/13

MESSENGER

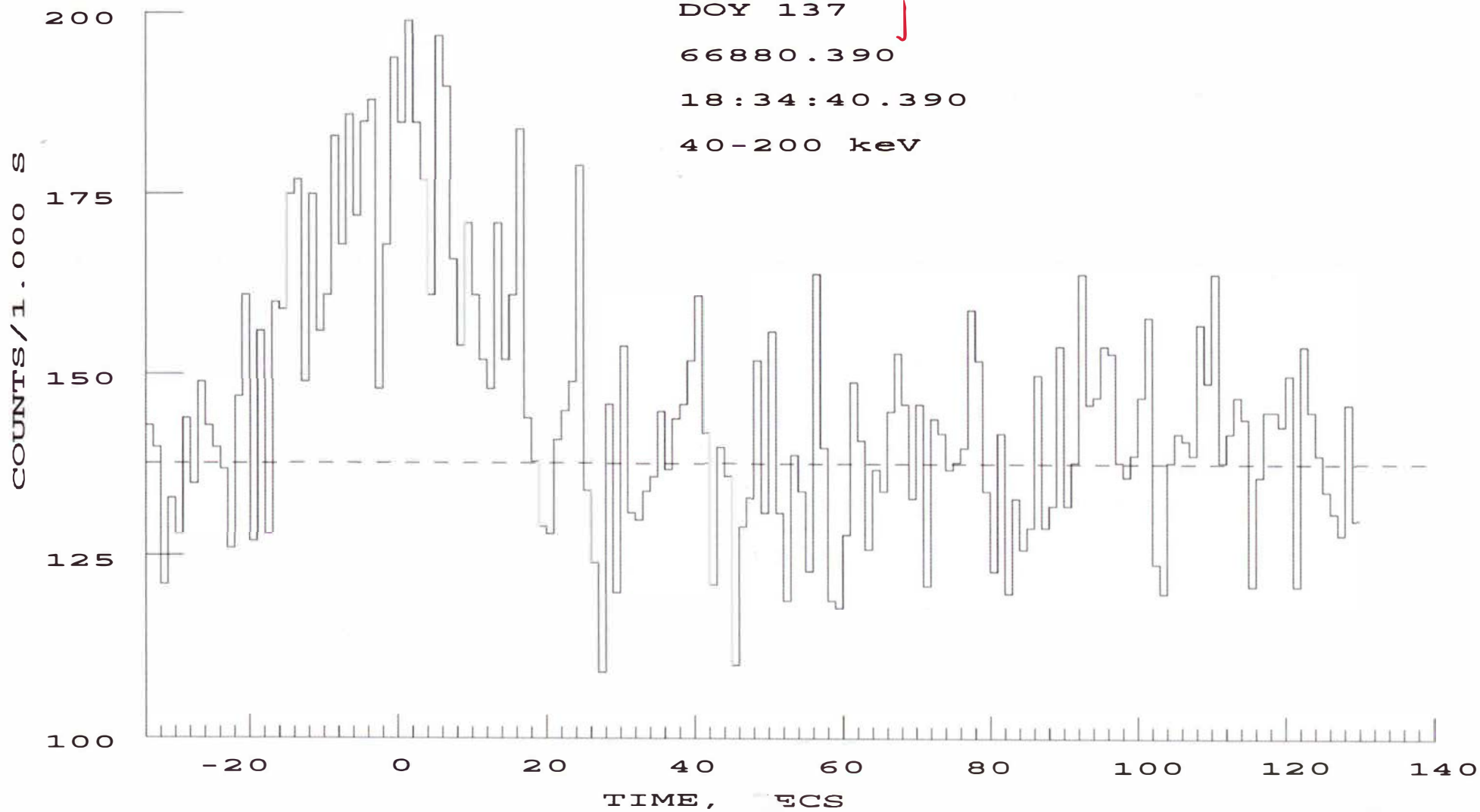
17/05/13 a

DOY 137 J

66880.390

18:34:40.390

40-200 keV



25/10/13

MESSENGER

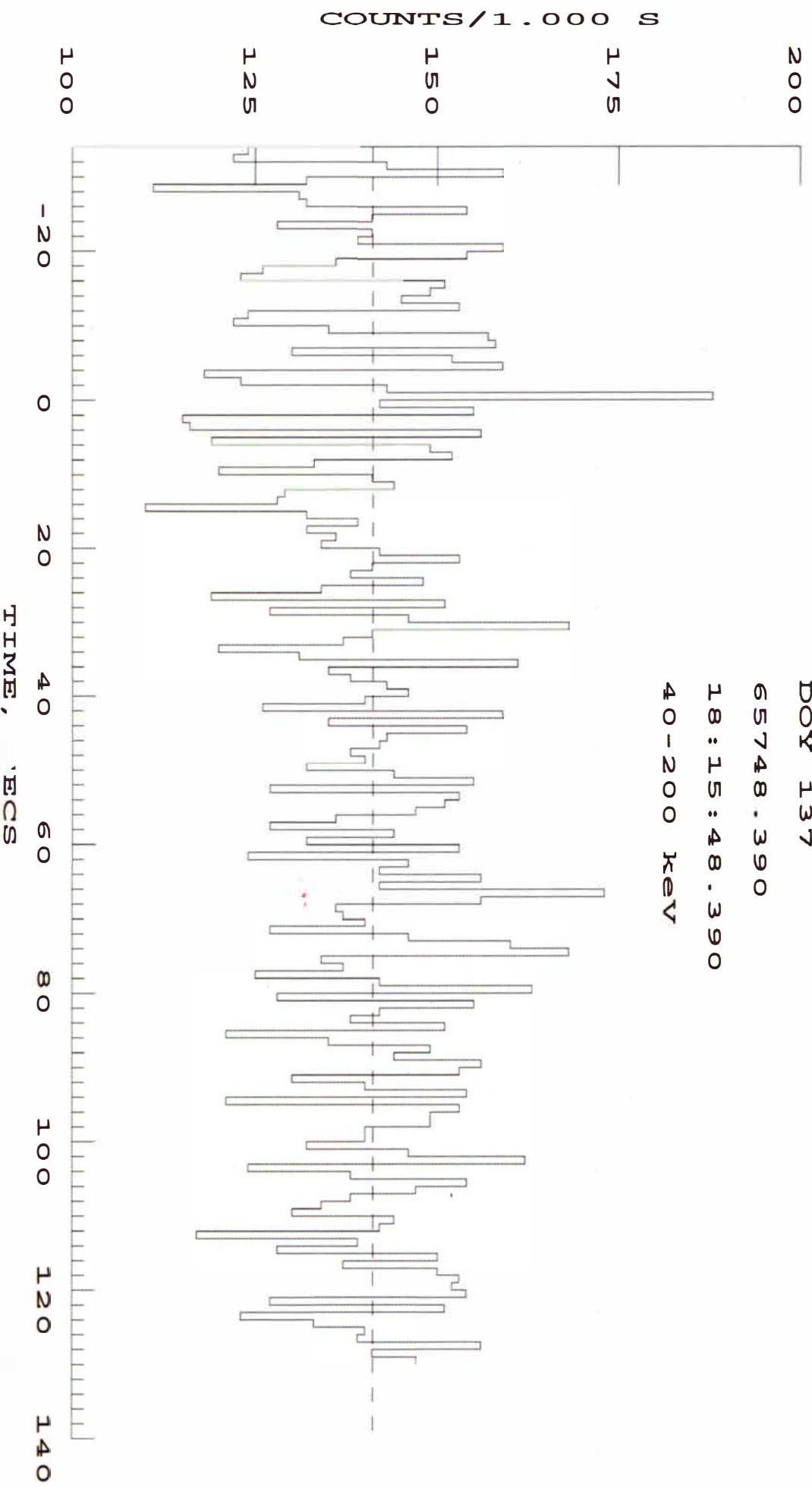
17/05/13

DOY 137

65748.390

18:15:48.390

40-200 keV



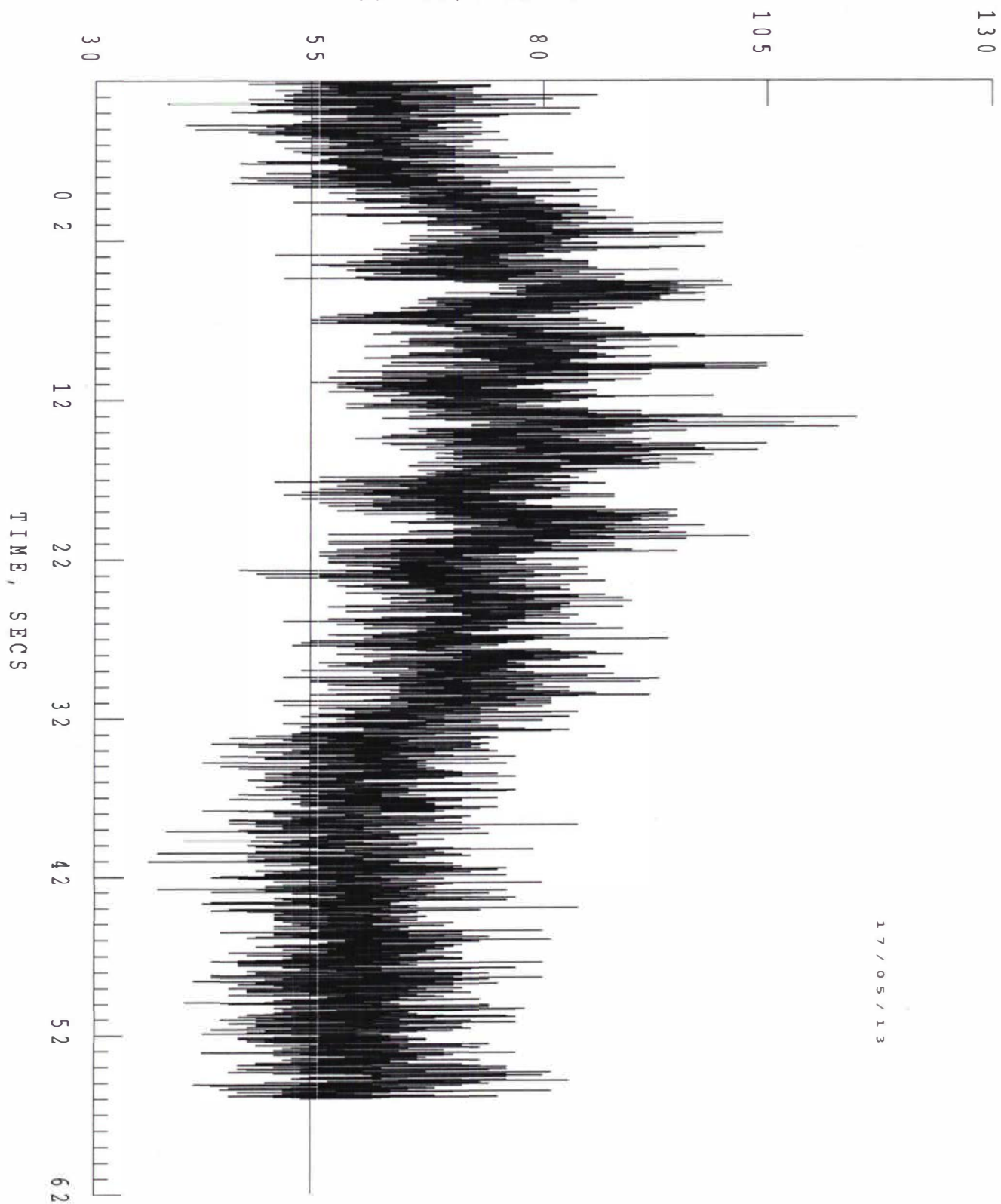
SUZAKU

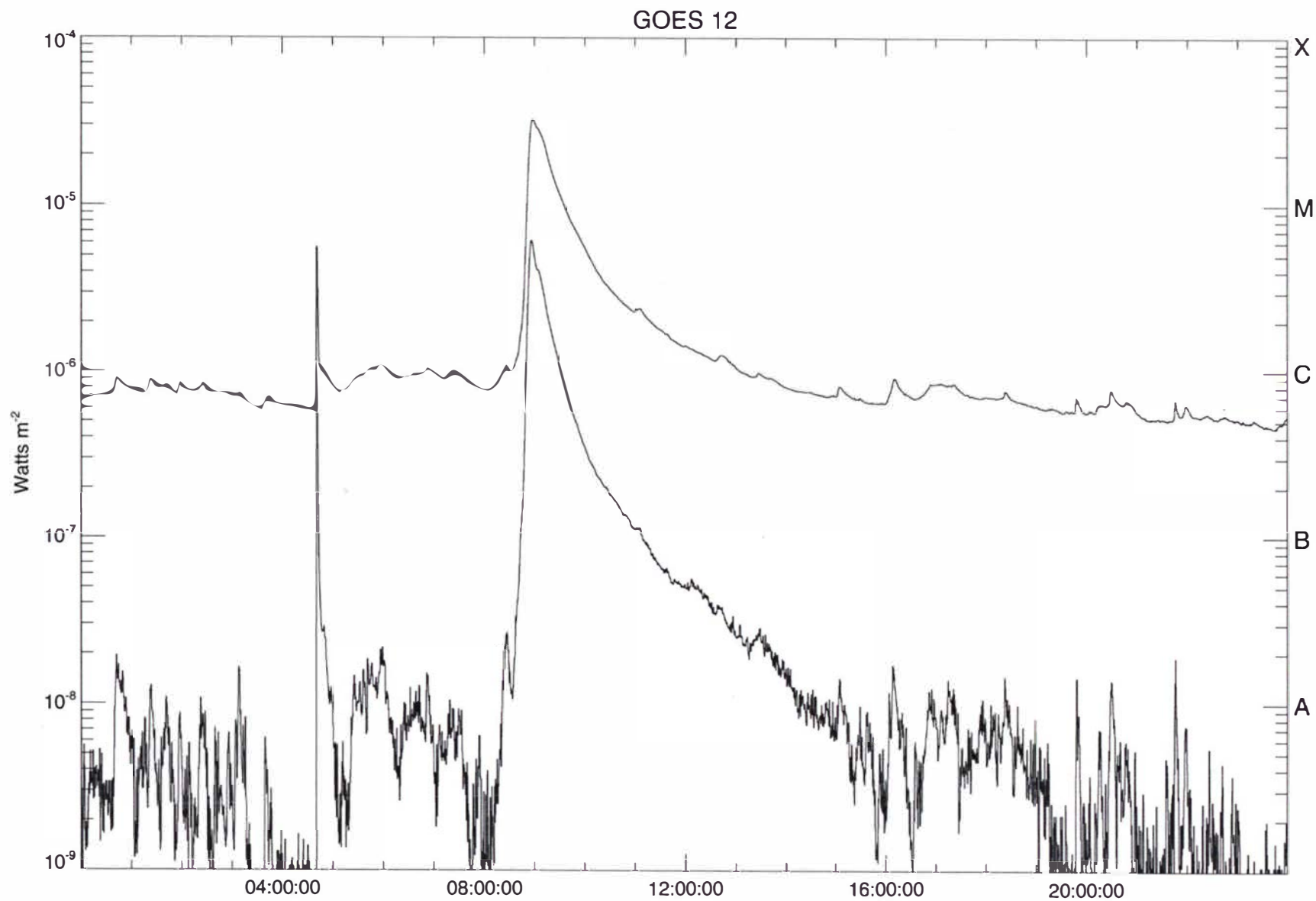
17/05/13

67453.645

50 - 240 keV

COUNTS/0.016 S





Data Start: 13/05/17, 0000:11

Plot created: 13/05/20, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

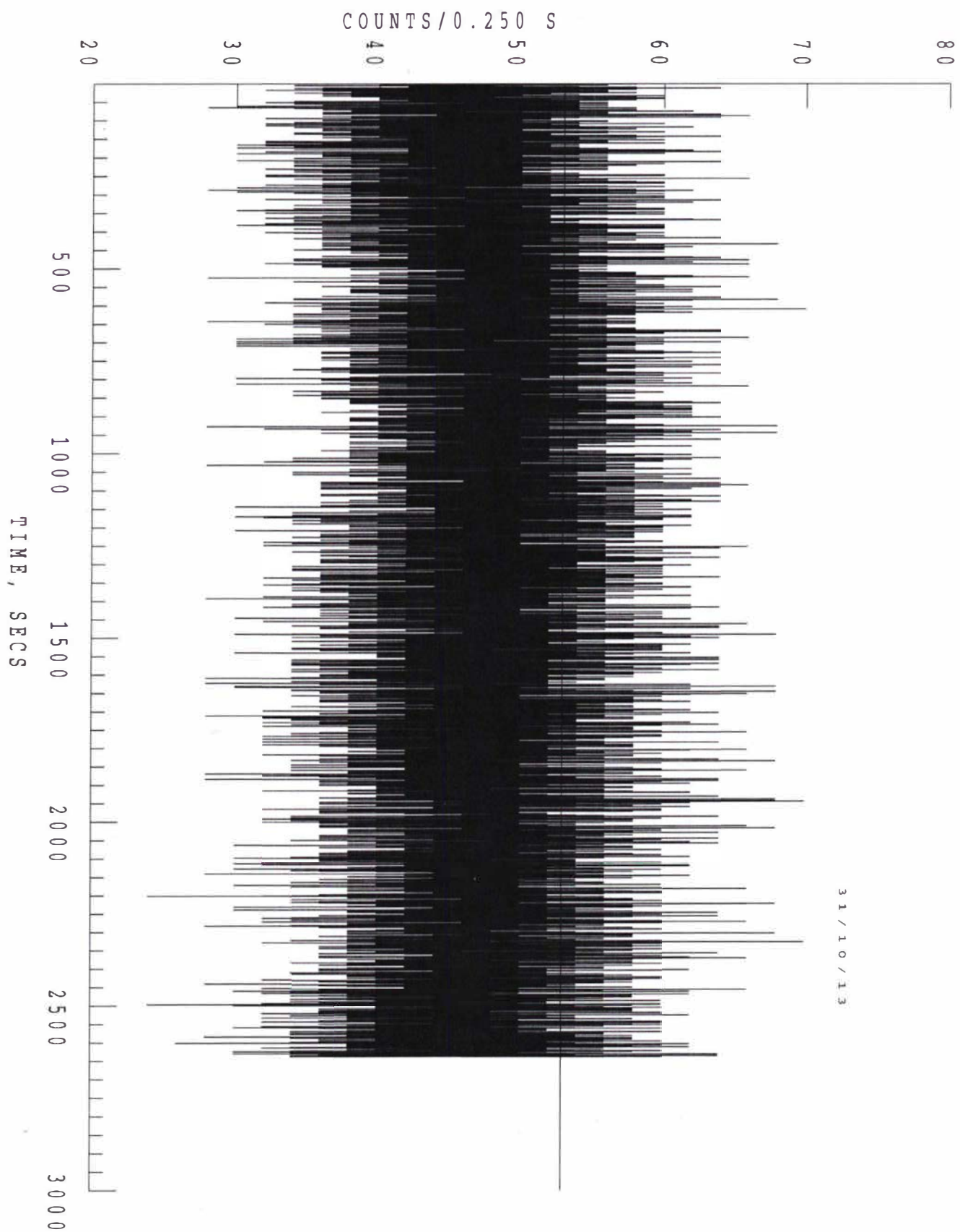
Sample average = 10

MS01

18/05/13

6625.422

50 - 3000 keV



From williams@gammaburst.ssl.berkeley.edu Wed Oct 30 10:28:20 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Wed, 30 Oct 2013 10:28:19 -0800 (PST)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20130518_07974
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 30-Oct-2013 11:27:05.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.500000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

A

From gcncirc@capella2.gsfc.nasa.gov Mon May 20 07:04:10 2013
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 130518B found in ground analysis of Swift-BAT data
To: khurley@ssl.berkeley.edu
Date: Mon, 20 May 2013 10:04:08 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

TITLE: GCN CIRCULAR
NUMBER: 14682
SUBJECT: GRB 130518B found in ground analysis of Swift-BAT data
DATE: 13/05/20 14:04:04 GMT
FROM: Jay R. Cummings at NASA/GSFC/Swift <james.r.cummings@nasa.gov>

J. R. Cummings (UMBC/CRESST/GSFC) reports on behalf of the Swift-BAT team:

³⁹⁰³⁸
At 10:50:38 UTC, Swift-BAT triggered on GRB 130418A (trigger # 556105). A sub-threshold source was found onboard. In ground analysis, a source was confirmed at RA, Dec 321.555, -20.148, which is:

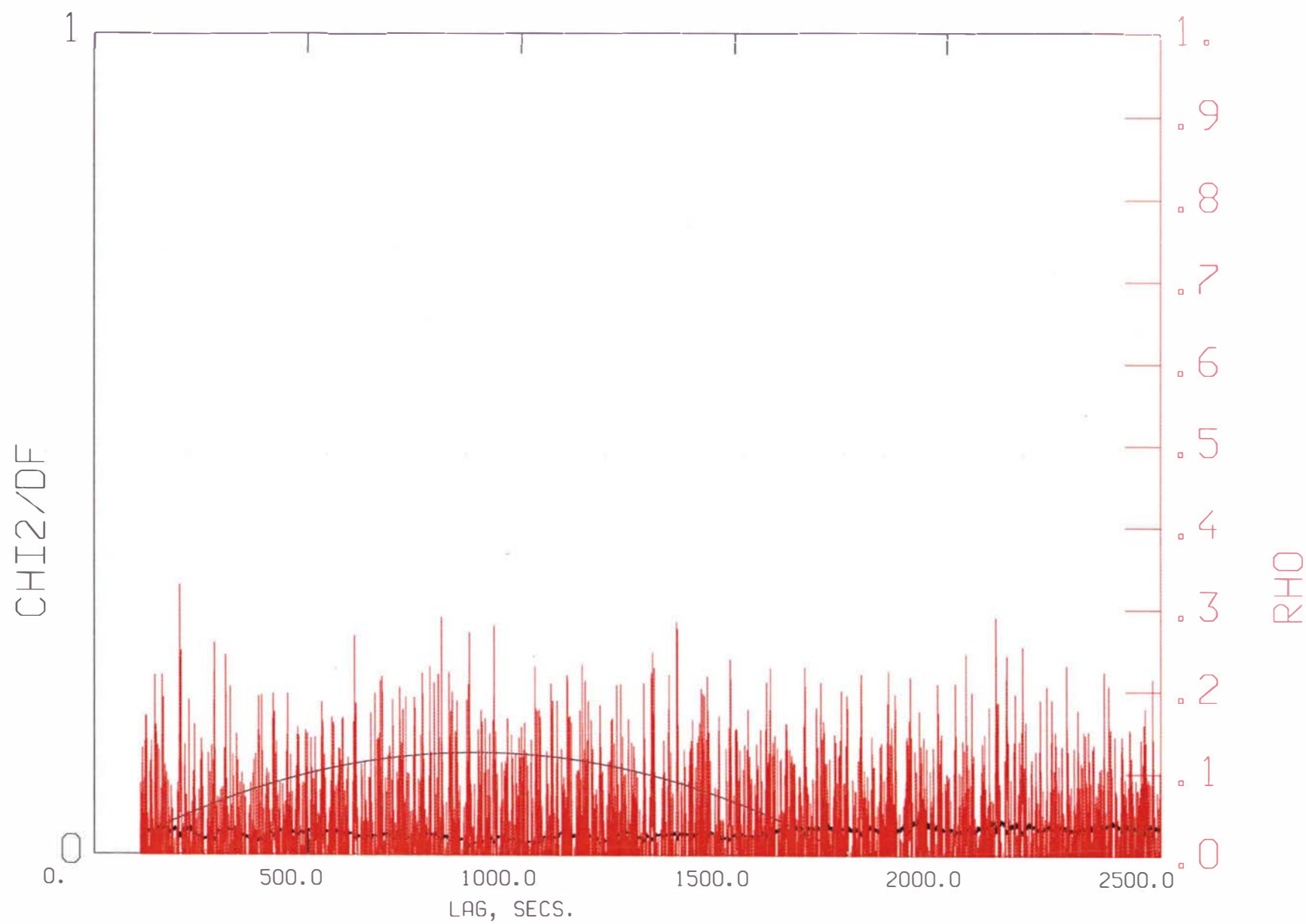
RA (J2000) 21h 26m 13.2s
Dec (J2000) -20d 08m 53s

with an estimated uncertainty of 1.8 arcmin radius (90% confidence).

The burst as seen in BAT was a single FRED peak of approximately 15 seconds duration.

Swift TOO request has been submitted and approved to locate the afterglow.

$8 \times 10^{-7} \text{ erg cm}^{-2}$



A

INTEGRAL

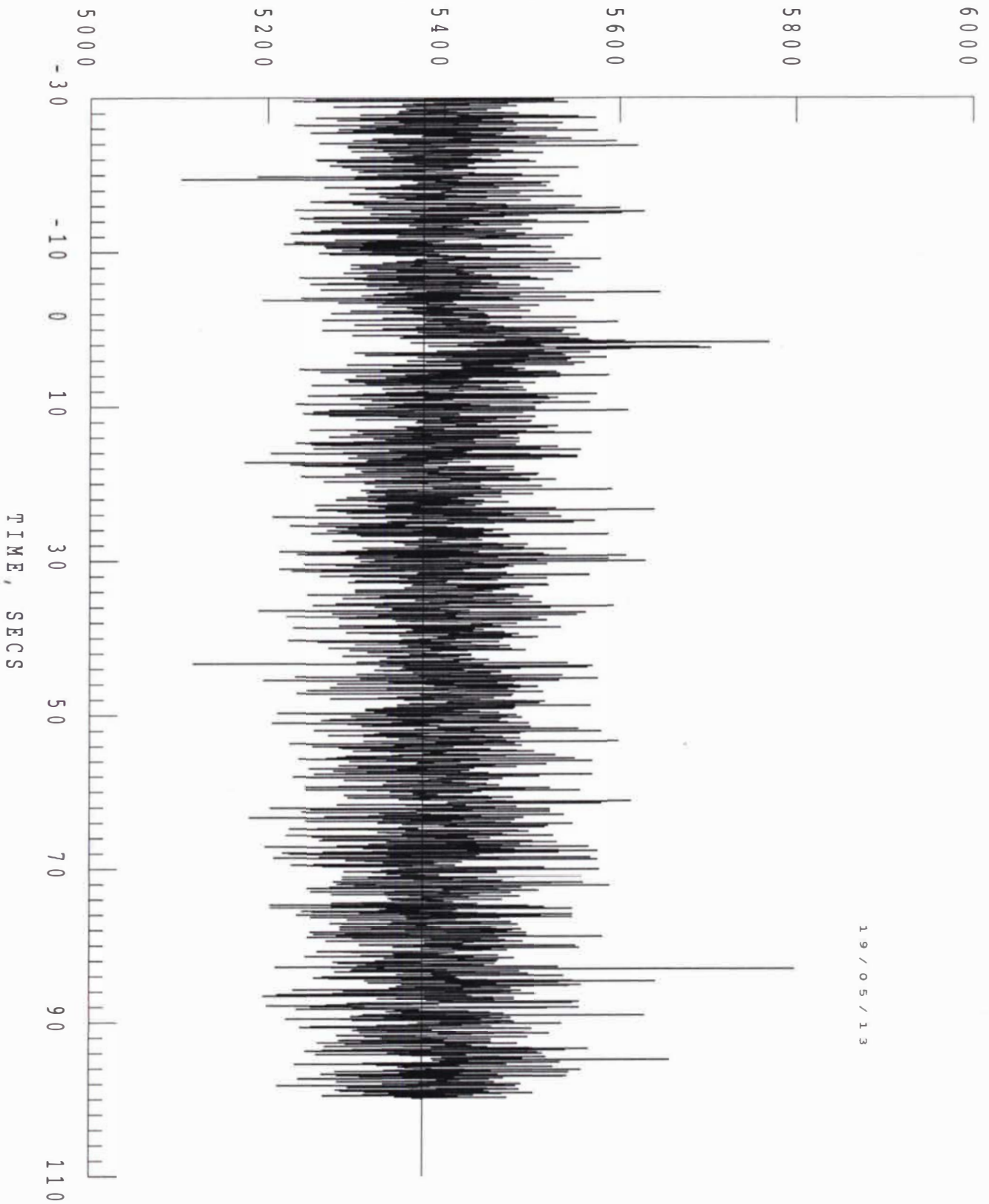
18/05/13

39037.985

10:56:37

100-10000 keV

COUNTS/0.050 S



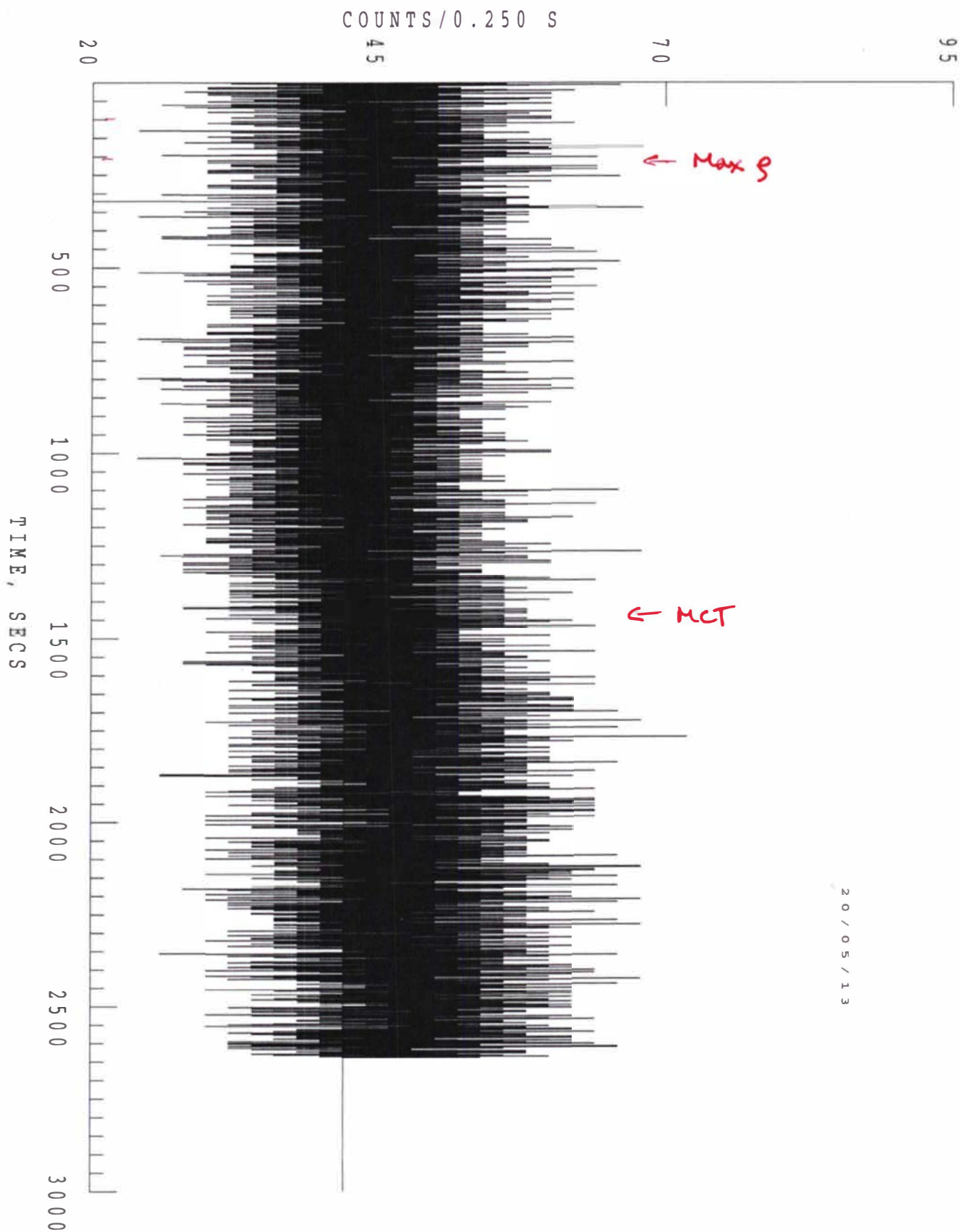
MS01

18/05/13

37704.904

A

50 - 3000 keV



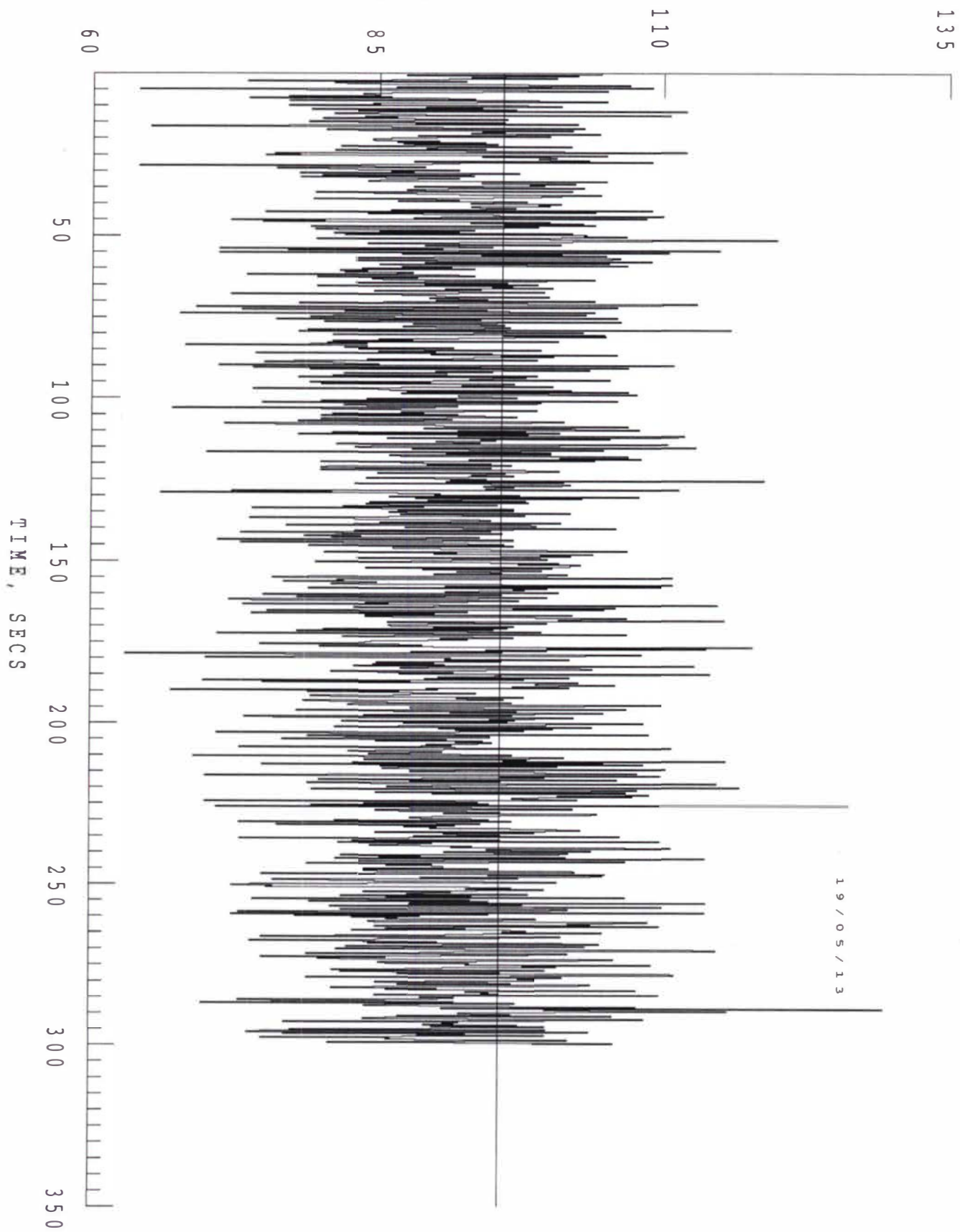
HESSI

18/05/13 38888.000 (INTEGRAL_20130518_39038)

A

25- 150 keV

COUNTS/0.250 S



A

25/10/13

MESSENGER

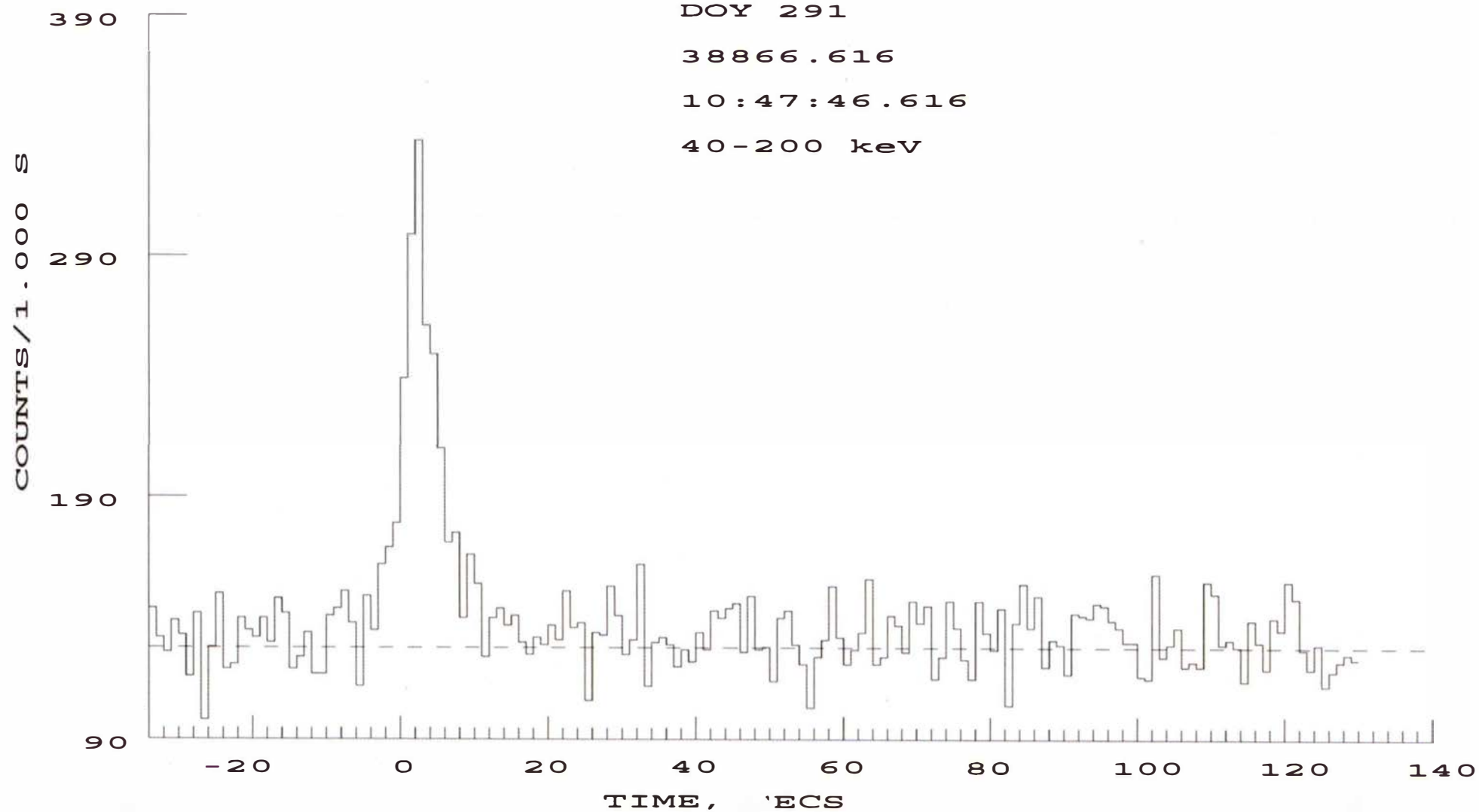
18/10/13

DOY 291

38866.616

10:47:46.616

40-200 keV



GLAST

18/05/13

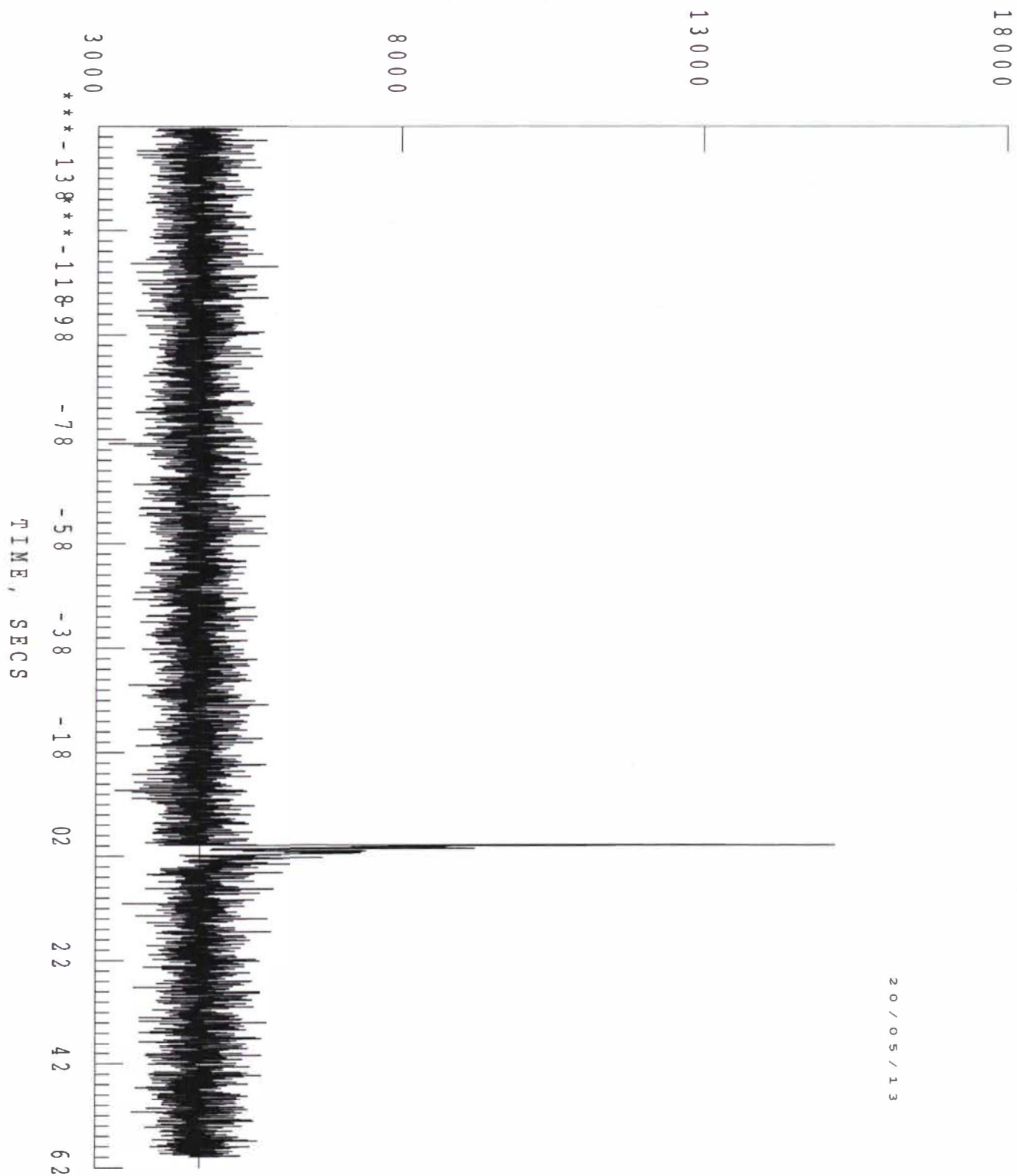
47588.614

13:13:08

B

26 - 293 keV
COUNTS/0.032 S

289.72 -4.15 2.7



MS01

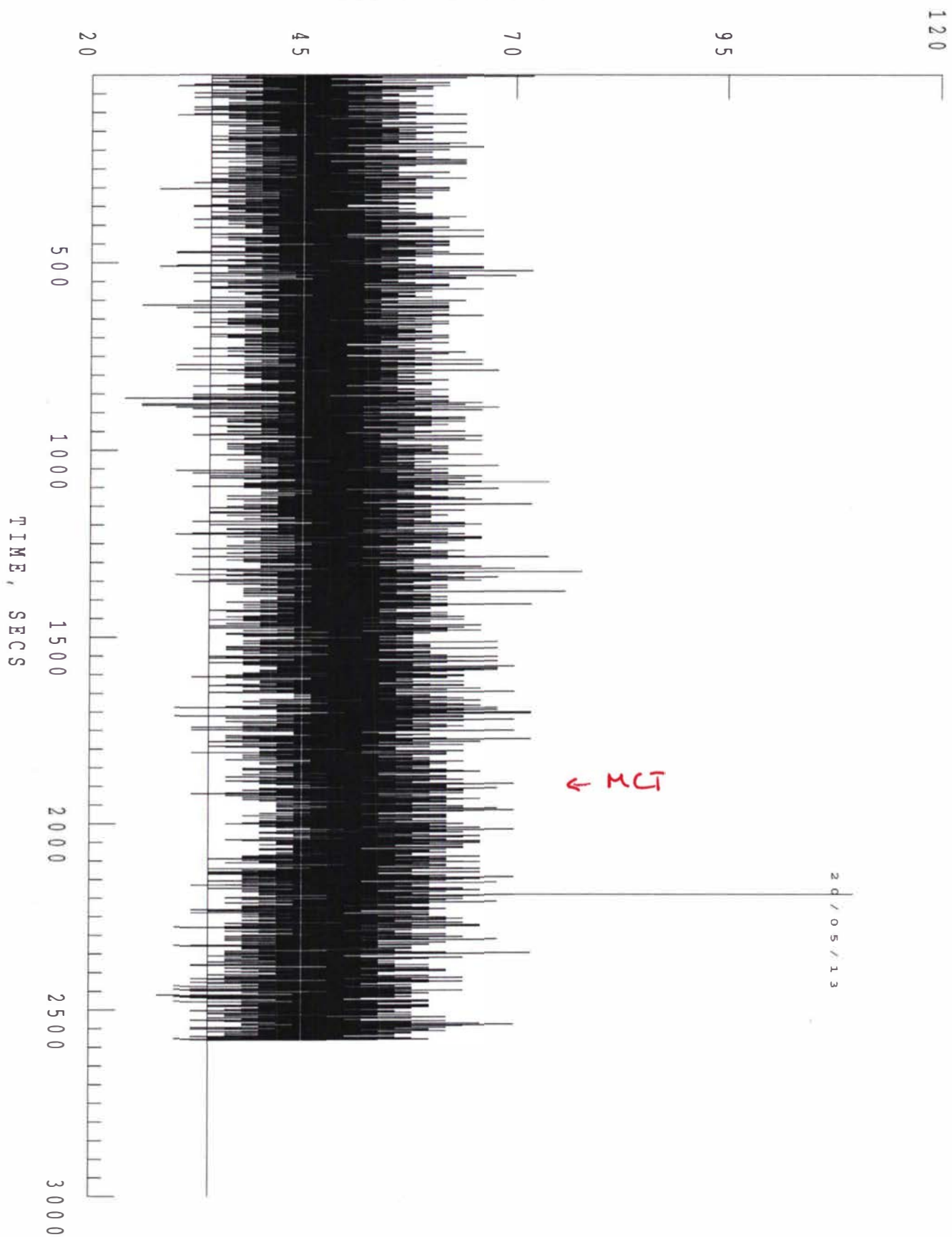
18/05/13

46284.761

B

50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Thu May 23 23:01:58 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
v-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Thu, 23 May 2013 23:01:57 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GLAST_20130518_47588
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 23-May-2013 23:00:41.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [lpn] BAT lightcurve for trigger at 130518_1313

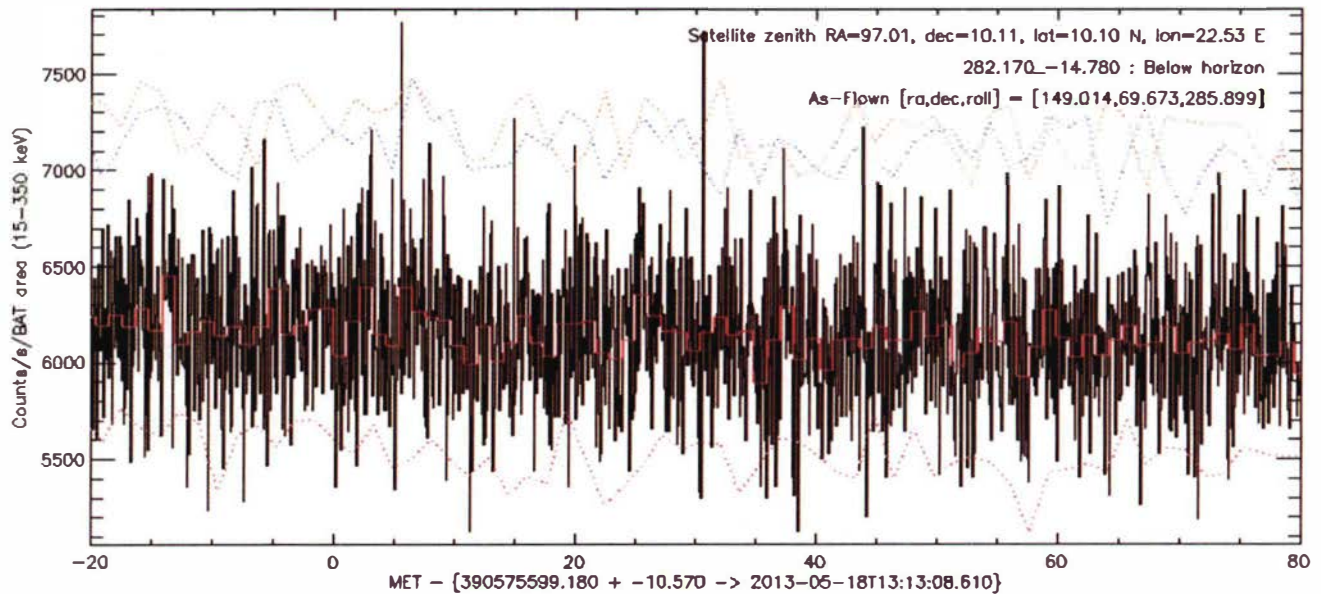
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/18/2013 3:43 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130518_1313.png



```
% /usr/local/bin/swinfo -o 390575599.180 -s 282.170_-14.780
Time(MET + UTCF -> UT): 390575599.180 + -10.570 -> 2013-05-18T13:13:08.610
YYMMDD_SOD: 130518_47588.610 DOY=138
Swift Zenith(RA,dec): 97.01, 10.11
Swift Location(lon,lat,alt): 22.53 E, 10.10 N, 584 km
Obs Sequence Number: 00032503056
Obs Target Name: M82 X-1
Obs Date and Times: 2013-05-18 13:09:51 - 13:39:50
Obs Pointing(ra,dec,roll): 149.014, 69.673, 285.90
282.170_-14.780_imageloc (boresight_dist, angle): (118, 37)
282.170_-14.780_exposure (cm^2 cos adjusted): 0
282.170_-14.780_altitude: -59 (down)
```

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

lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130518_1313_bat64ms_ipn	27 bytes
/tmp/130518_1313.png	18.4 KB

B

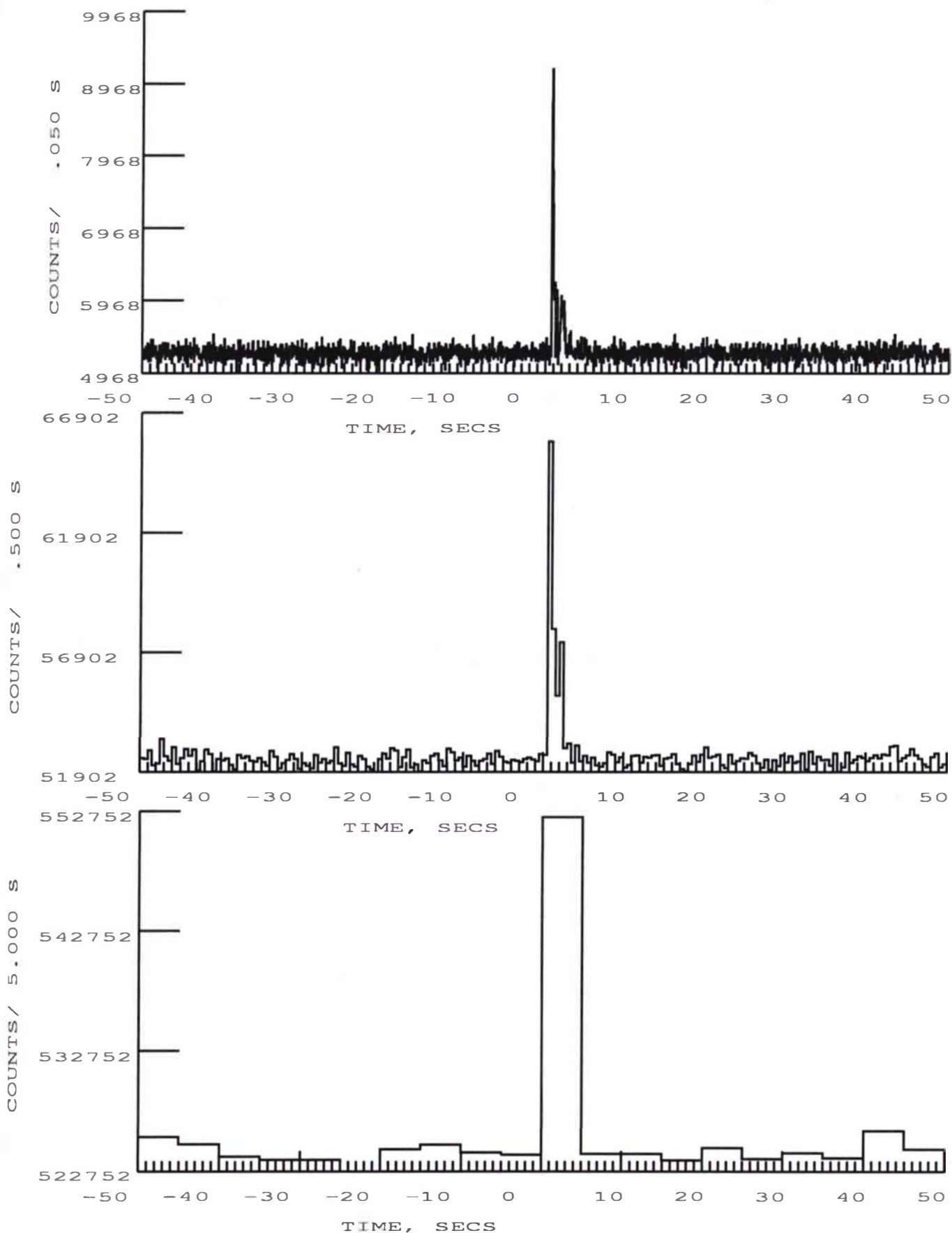
INTEGRAL

18/05/13

47588.000

13:13:08.0

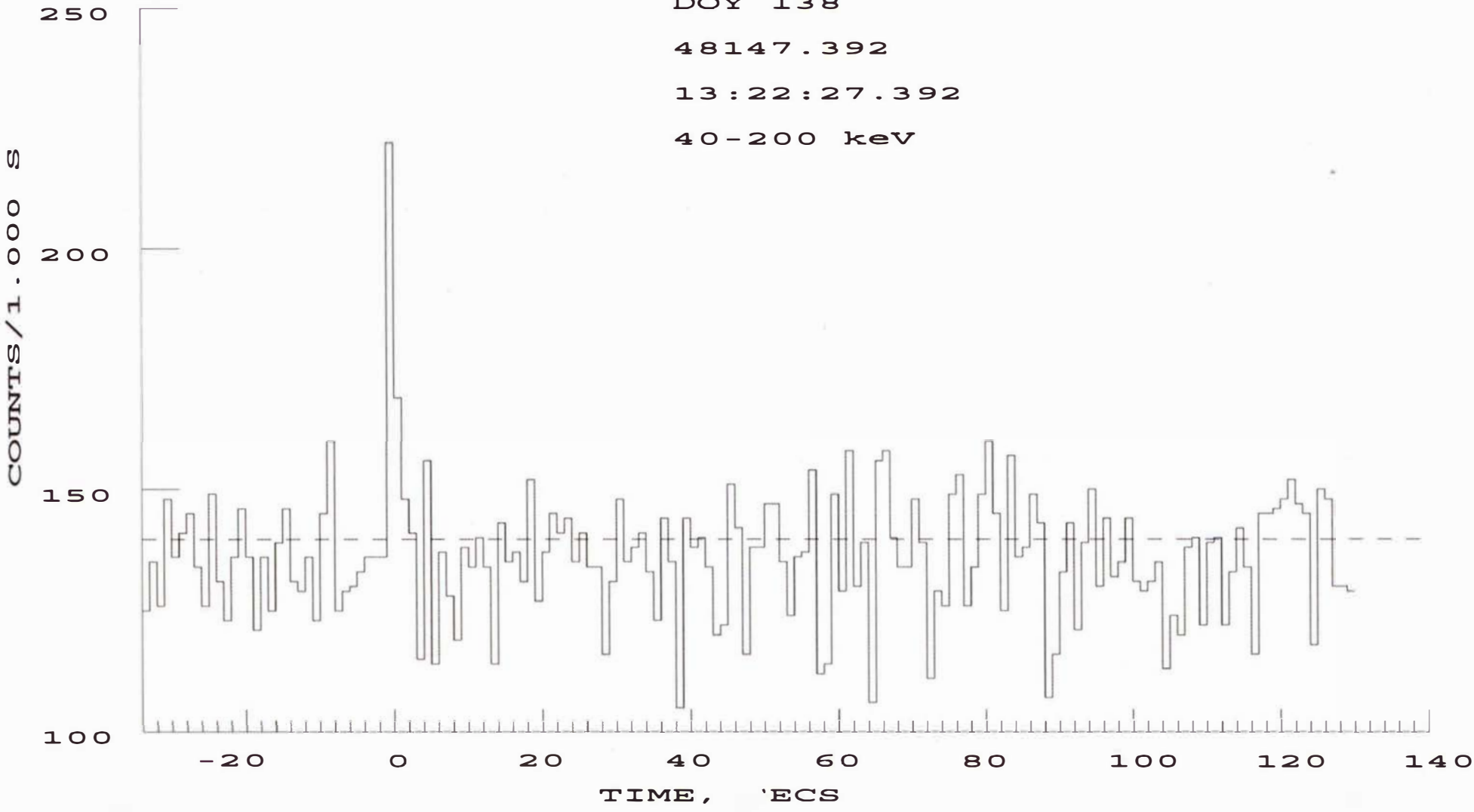
25/10/13



3

25/10/13

MESSENGER
18/05/13
DOY 138
48147.392
13:22:27.392
40-200 keV



BC

From gcncirc@capella2.gsfc.nasa.gov Sat May 18 17:04:45 2013
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 130518A Swift-BAT position from ground analysis
To: khurley@ssl.berkeley.edu
Date: Sat, 18 May 2013 20:04:39 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

TITLE: GCN CIRCULAR
NUMBER: 14676
SUBJECT: GRB 130518A Swift-BAT position from ground analysis
DATE: 13/05/19 00:04:25 GMT
FROM: Jay R. Cummings at NASA/GSFC/Swift <james.r.cummings@nasa.gov>

J. R. Cummings (UMBC/CRESST/GSFC) reports on behalf of the BAT team

S0107

At 13:55:07.4 UT, the Swift Burst Alert Telescope (BAT) triggered on the Fermi GBM and LAT GRB 130518A (Xiong, GCN # 14674 and Omodei et al., GCN# 14675) (BAT trigger=556113). No significant source was found onboard. In ground analysis, a significant source was found at RA, Dec 355.671, +47.478 which is:

RA(J2000) =23h 42m 41.1s

Dec(J2000) = +47d 28' 41.5"

with an uncertainty of 2.9 arcmin (radius, 90% containment, including systematic uncertainty). This position is 11 arcmin from the LAT position, within the LAT error circle. BAT partial coding was 5%. The unweighted lightcurve shows two overlapping peaks with a duration of about 14 sec. The peak count rate was ~9400 counts/sec (15-350 keV), at ~4 sec before the trigger.

C 8

From gcncirc@capella2.gsfc.nasa.gov Sat May 18 14:02:38 2013
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 130518A: Fermi LAT detection
To: khurley@ssl.berkeley.edu
Date: Sat, 18 May 2013 17:02:36 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

TITLE: GCN CIRCULAR
NUMBER: 14675
SUBJECT: GRB 130518A: Fermi LAT detection
DATE: 13/05/18 21:02:32 GMT
FROM: Julie McEnergy at NASA/GSFC <julie.e.mcenery@nasa.gov>

Nicola Omodei (Stanford) and Julie McEnergy (GSFC) report on behalf of the Fermi-LAT team:

At 13:54:37.53 UT on 18 May 2013, Fermi LAT detected high energy emission from GRB 130518A, which was also detected by Fermi-GBM (trigger 390578080 /130518580, GCN 14674).

The best LAT on-ground location is found to be RA=355.809, DEC=47.641 (J2000) with an error radius of 0.34 deg (68% containment, statistical error only).

The burst was about 43 deg from the LAT boresight at the time of the trigger.

The data from the Fermi LAT shows emission lasting approximately 100 seconds with a TS of 50.

Multi-peaked emission lasting roughly 40 seconds can be seen using the non-standard LAT Low Energy (LLE) with a significance of ~15 sigma.

A Swift TOO request has been submitted.

The Fermi LAT point of contact for this burst is Sara Cutini (sara.cutini@asdc.asi.it).

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.

BC

From vxw@capella2.gsfc.nasa.gov Sat May 18 10:41:29 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Sat, 18 May 2013 13:41:28 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/FERMI_GBM_FINAL_POSITION
X-Barracuda-BRTS-Status: 1

TITLE: GCN/FERMI NOTICE
NOTICE_DATE: Sat 18 May 13 17:41:27 UT
NOTICE_TYPE: Fermi-GBM Final Position
RECORD_NUM: 0
TRIGGER_NUM: 390578080
GRB_RA: 355.880d {+23h 43m 31s} (J2000),
356.046d {+23h 44m 11s} (current),
355.262d {+23h 41m 03s} (1950)
GRB_DEC: +46.050d {+46d 02' 60"} (J2000),
+46.124d {+46d 07' 27"} (current),
+45.772d {+45d 46' 21"} (1950)
GRB_ERROR: 1.00 [deg radius, statistical only]
GRB_DATE: 16430 TJD; 138 DOY; 13/05/18
GRB_TIME: 50077.53 SOD {13:54:37.53} UT
GRB_PHI: 279.48 [deg]
GRB_THETA: 42.16 [deg]
E_RANGE: 50.000 - 300.000 [keV]
LOC_ALGORITHM: 414 (Gnd S/W Version number)
SUN_POSTN: 55.68d {+03h 42m 43s} +19.70d {+19d 41' 56"}
SUN_DIST: 55.05 [deg] Sun_angle= 4.0 [hr] (West of Sun)
MOON_POSTN: 154.18d {+10h 16m 44s} +5.29d {+05d 17' 22"}
MOON_DIST: 125.03 [deg]
MOON_ILLUM: 55 [%]
GAL_COORDS: 110.81,-15.22 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 19.17, 42.87 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: Fermi-GBM Final Position.
COMMENTS: This Notice was ground-generated -- not flight-generated.
COMMENTS: NOTE: This GBM event is temporally(20.0<100sec) coincident with

BC

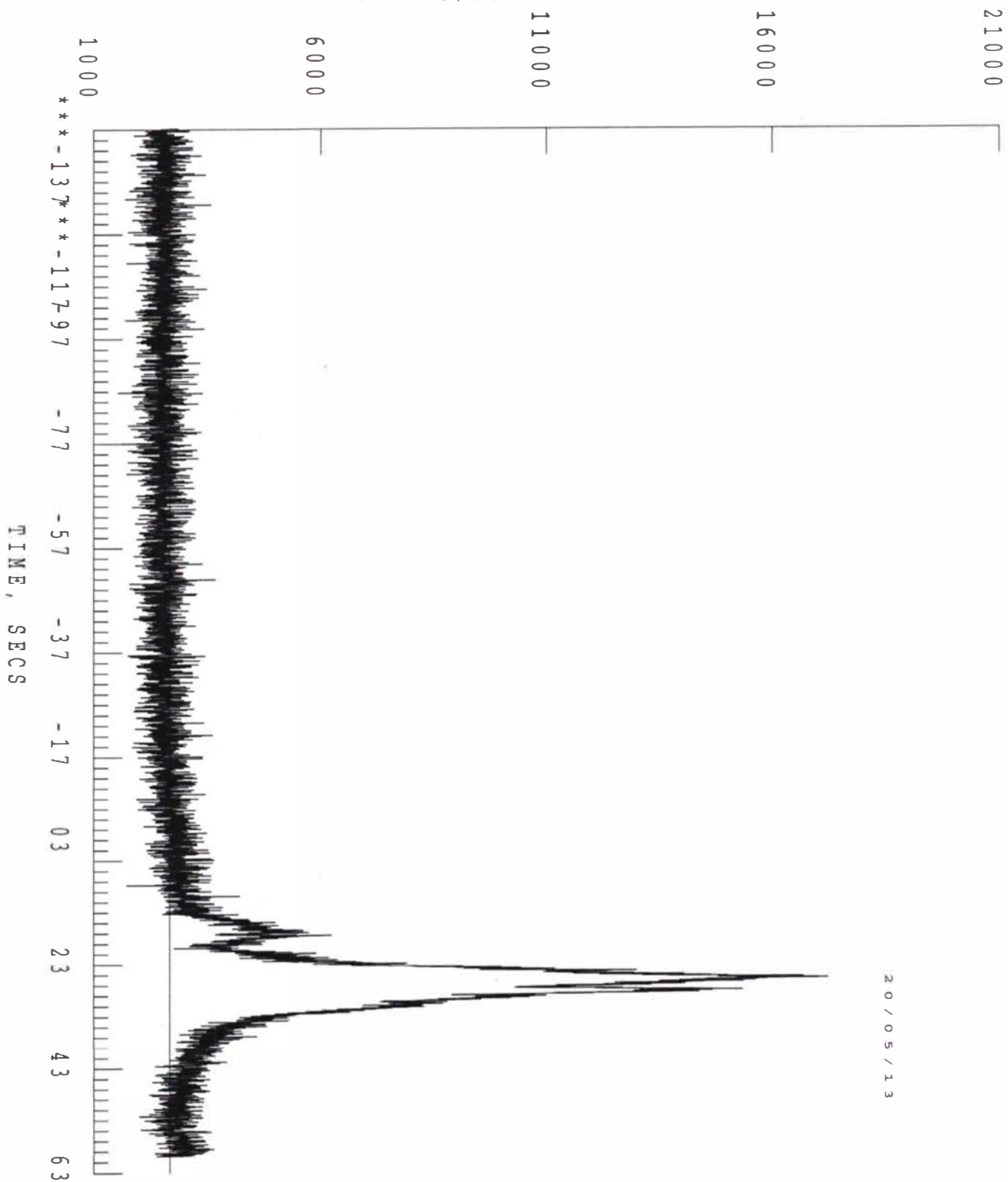
GLAST

18/05/13

50077.525

26- 293 keV

COUNTS/0.032 S



20/05/13

KONUS2

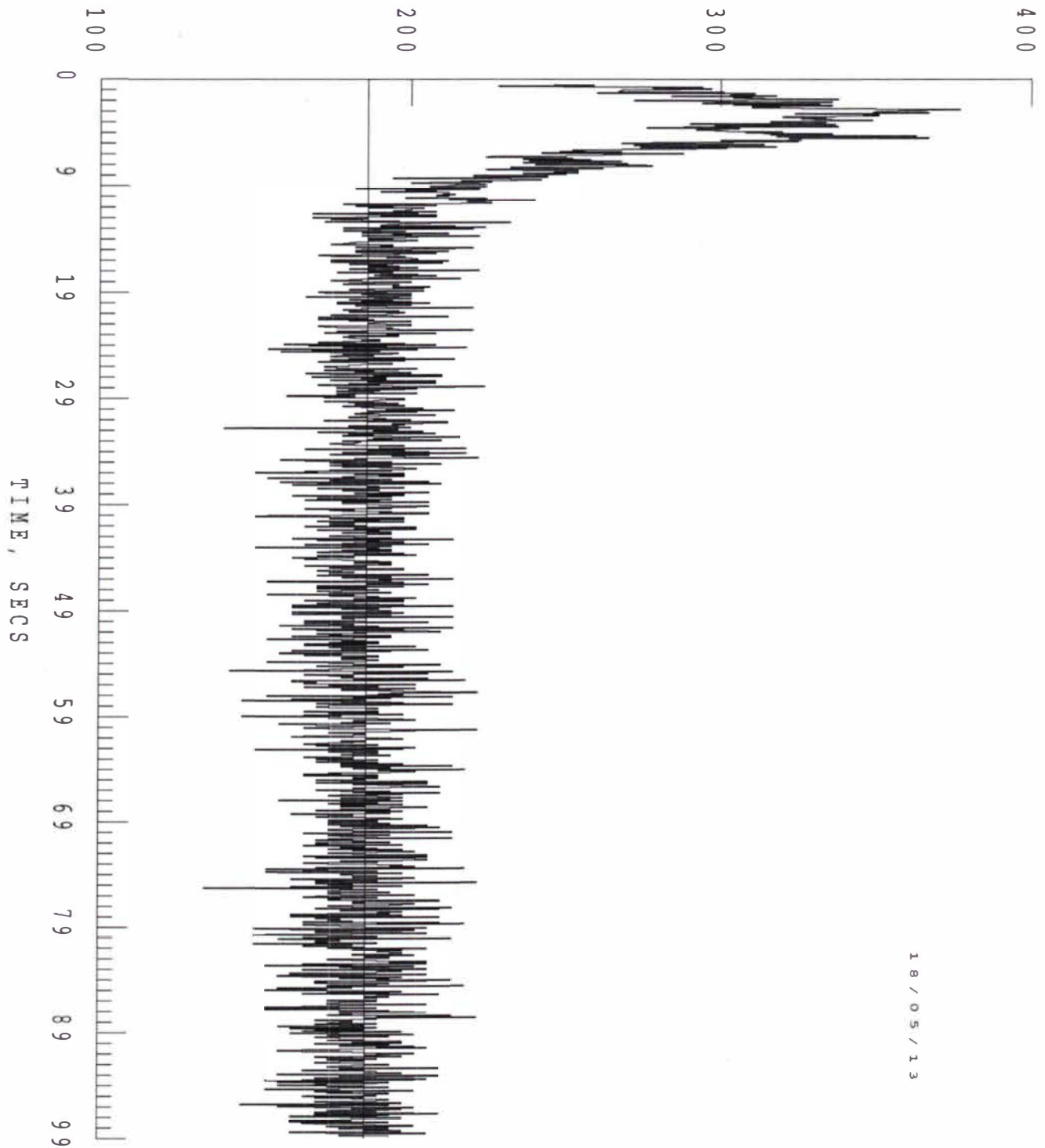
18/05/13

50097.501

BC

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20130518 50097

TRIGGER TIME: 18/05/13 DOY 138 Julian 2456432.07983 UT = 13.916 13:54:57 (50097.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

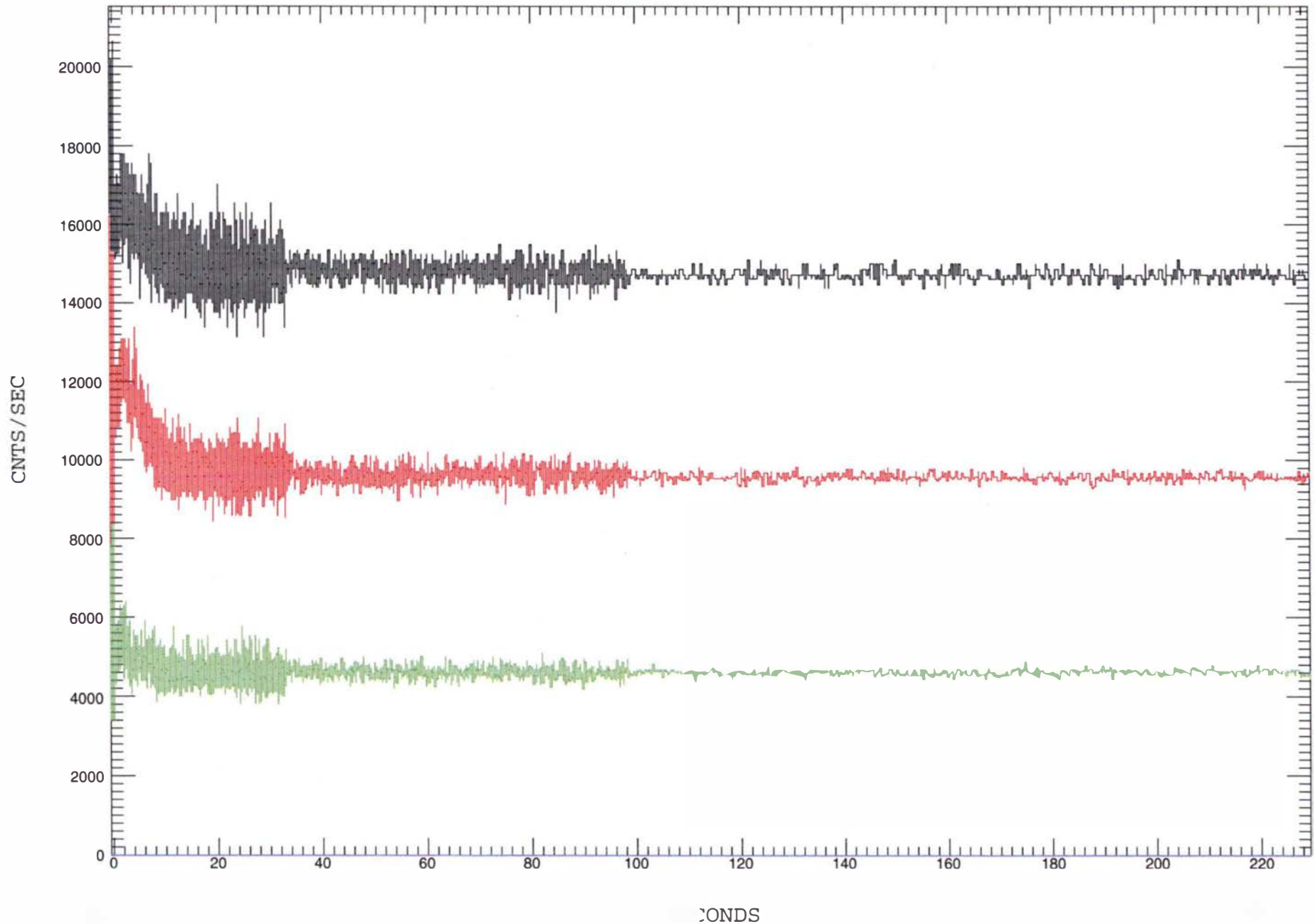
Chan 4 : [> 10 MeV]

Channel 1 + 10200

Channel 2 + 6800

Channel 3 + 3400

Channel 4 + 0



MS01

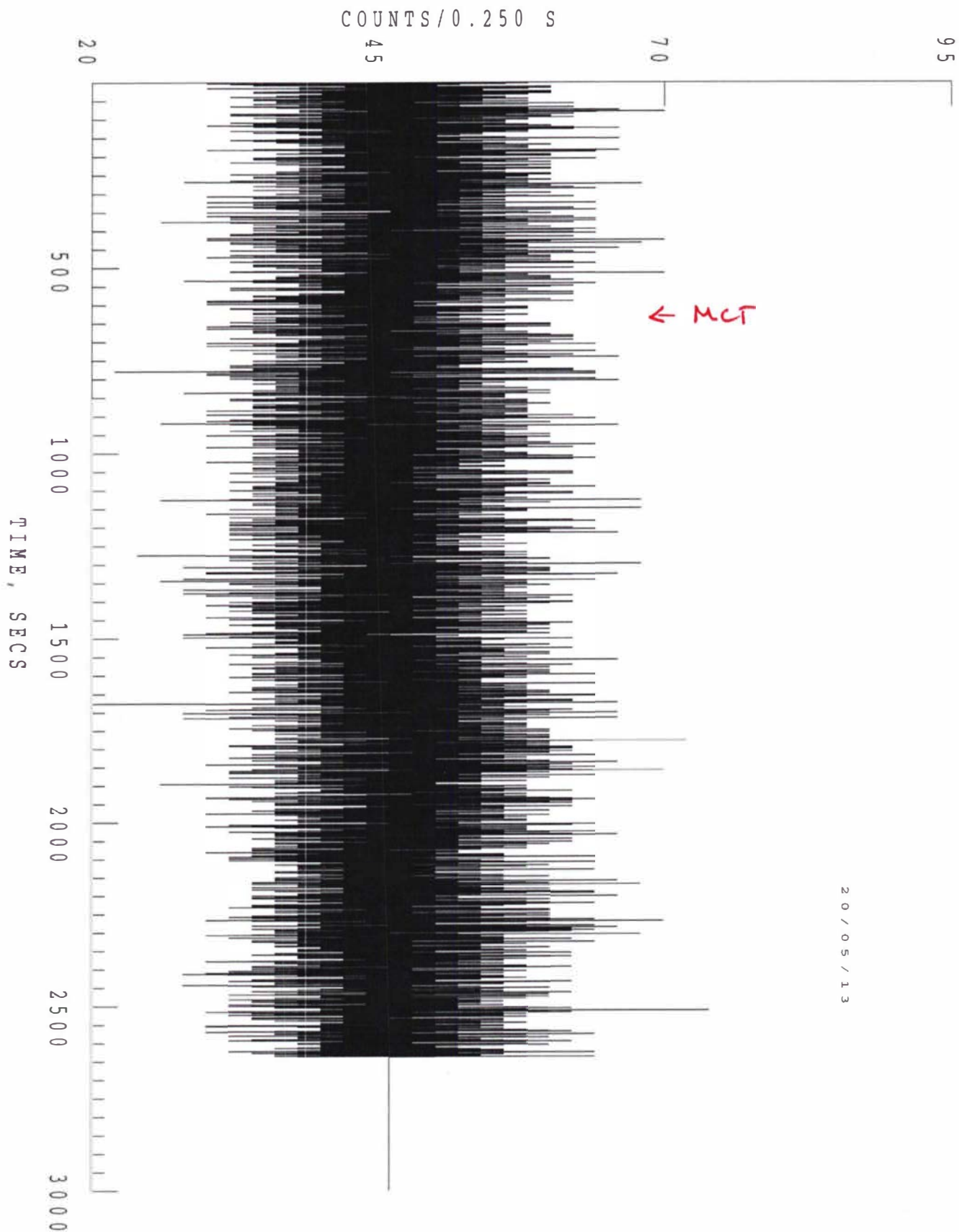
18/05/13

48744.720

C

50 - 3000 keV

Occulted



Subject: [Ipn] BAT lightcurve for trigger at 130518_1354

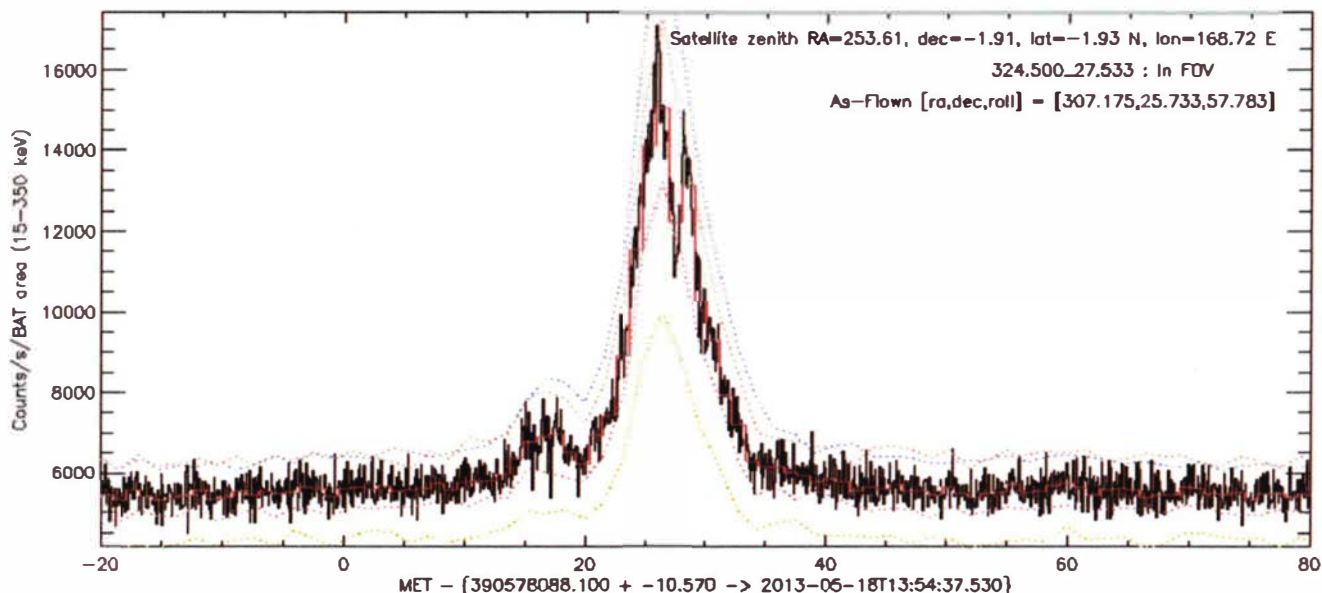
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/18/2013 4:16 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130518_1354.png



```
% /usr/local/bin/swinfo -o 390578088.100 -s 324.500_27.533
Time(MET + UTCF -> UT): 390578088.100 + -10.570 -> 2013-05-18T13:54:37.530
YYMMDD_SOD: 130518_50077.530 DOY=138
Swift Zenith(RA,dec): 253.61, -1.91
Swift Location(lon,lat,alt): 168.72 E, -1.93 N, 568 km
Obs Sequence Number: 00080266001
Obs Target Name: PBCJ2028.6+2544
Obs Date and Times: 2013-05-18 13:46:51 - 14:16:48
Obs Pointing(ra,dec,roll): 307.175, 25.733, 57.78
324.500_27.533_imageloc (boresight_dist, angle): (16, -68)
324.500_27.533_exposure (cm2 cos adjusted): 4130
324.500_27.533_altitude: 39 (up)
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130518_1354_bat64ms_ipn	27 bytes
/tmp/130518_1354.png	14.8 KB

J

25/10/13

MESSENGER

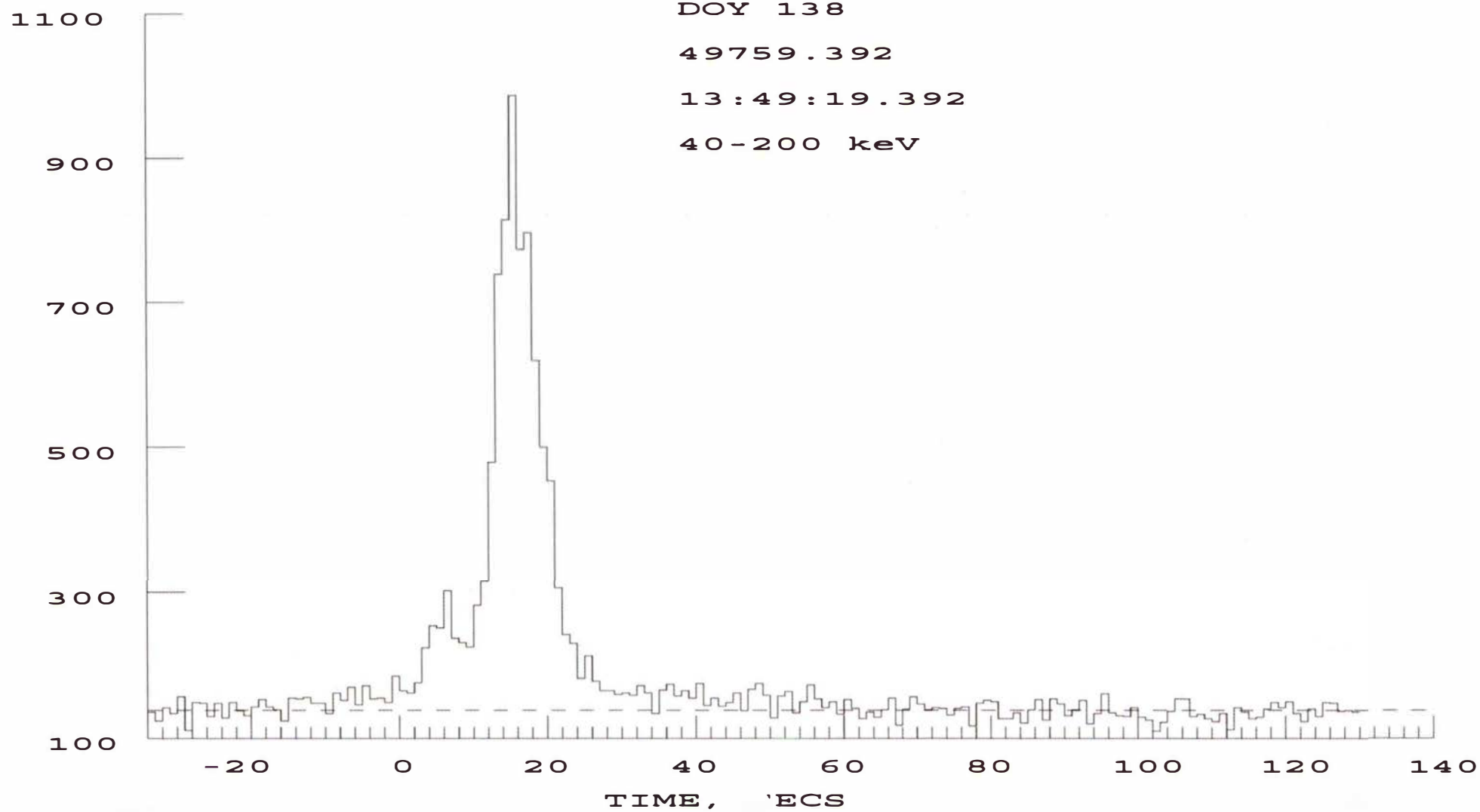
18/05/13

DOY 138

49759.392

13:49:19.392

40-200 keV



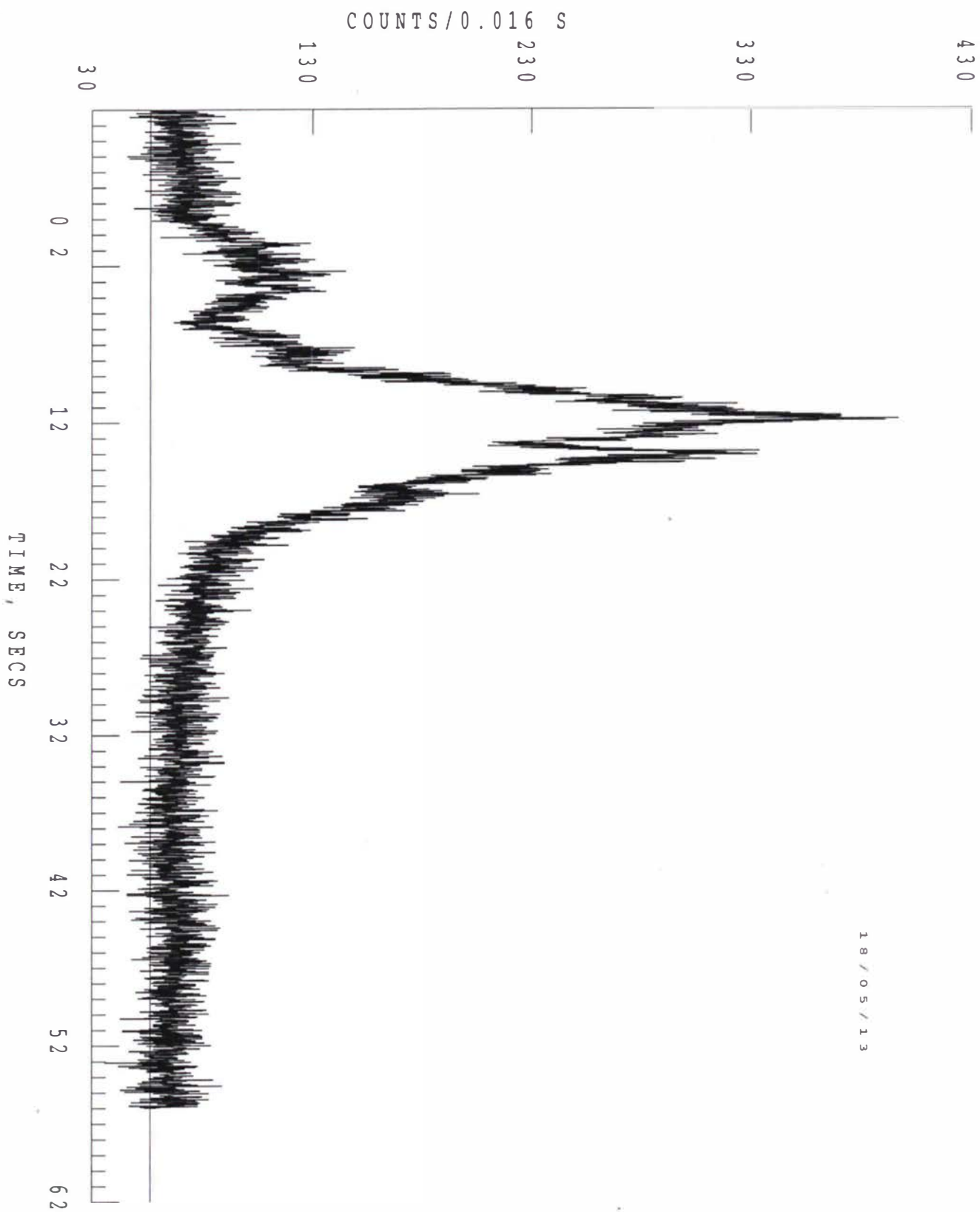
SUZAKU

18/05/13

50091.637

BC

50 - 240 keV



BC

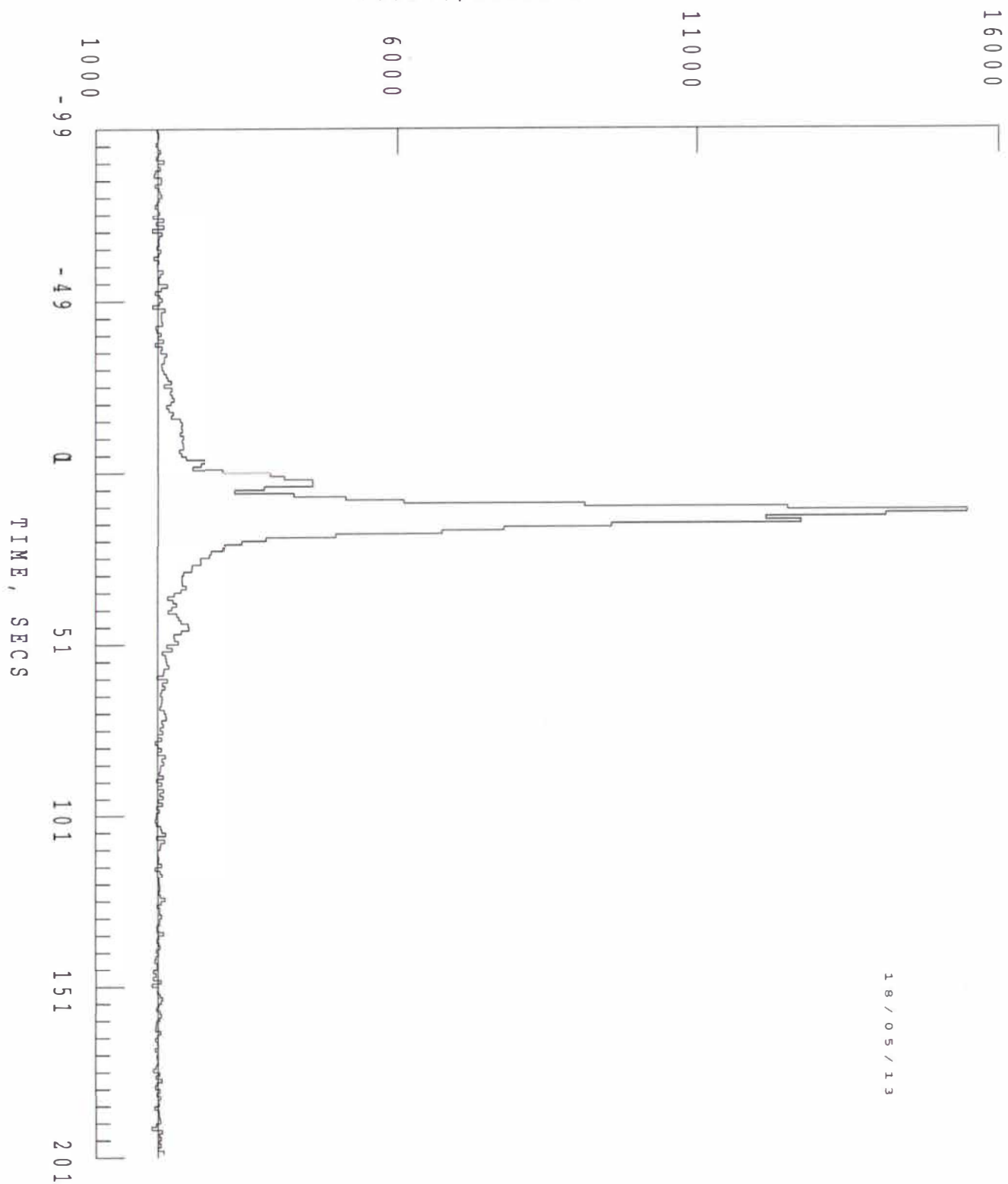
SUZAKU

18/05/13

50090.638

50 - 240 keV

COUNTS/1.000 S



18/05/13

C

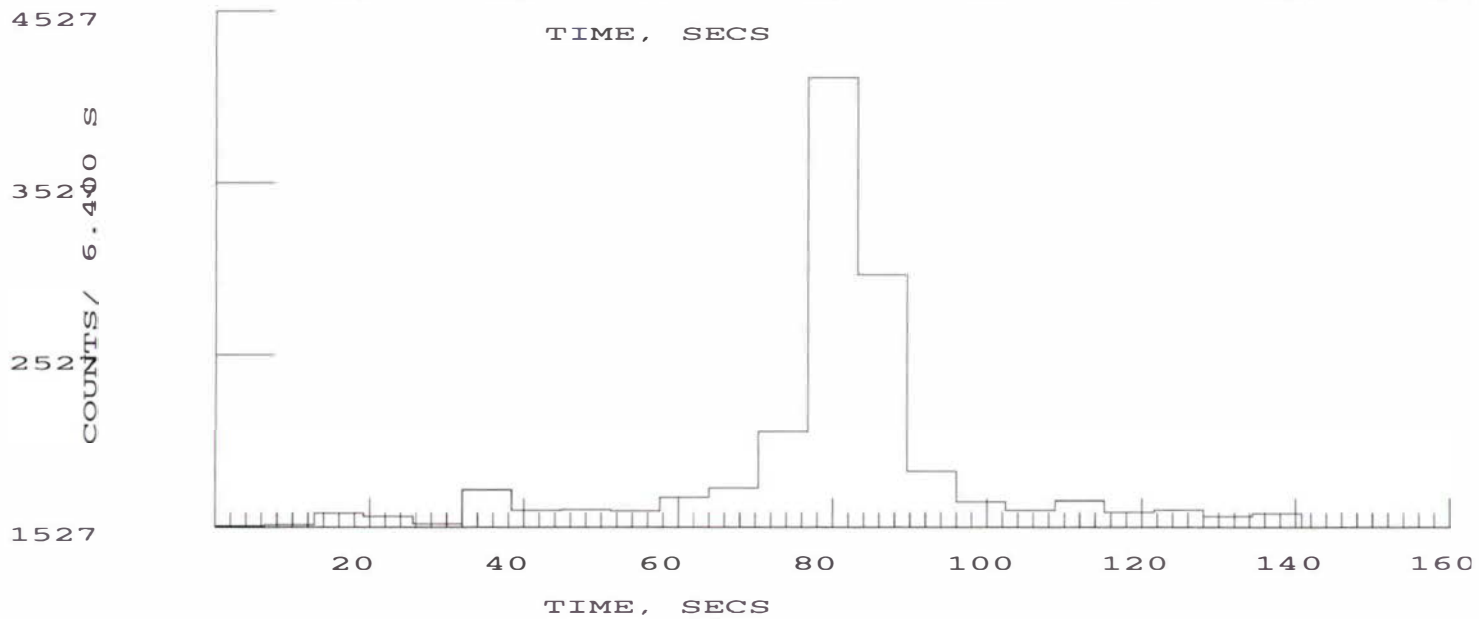
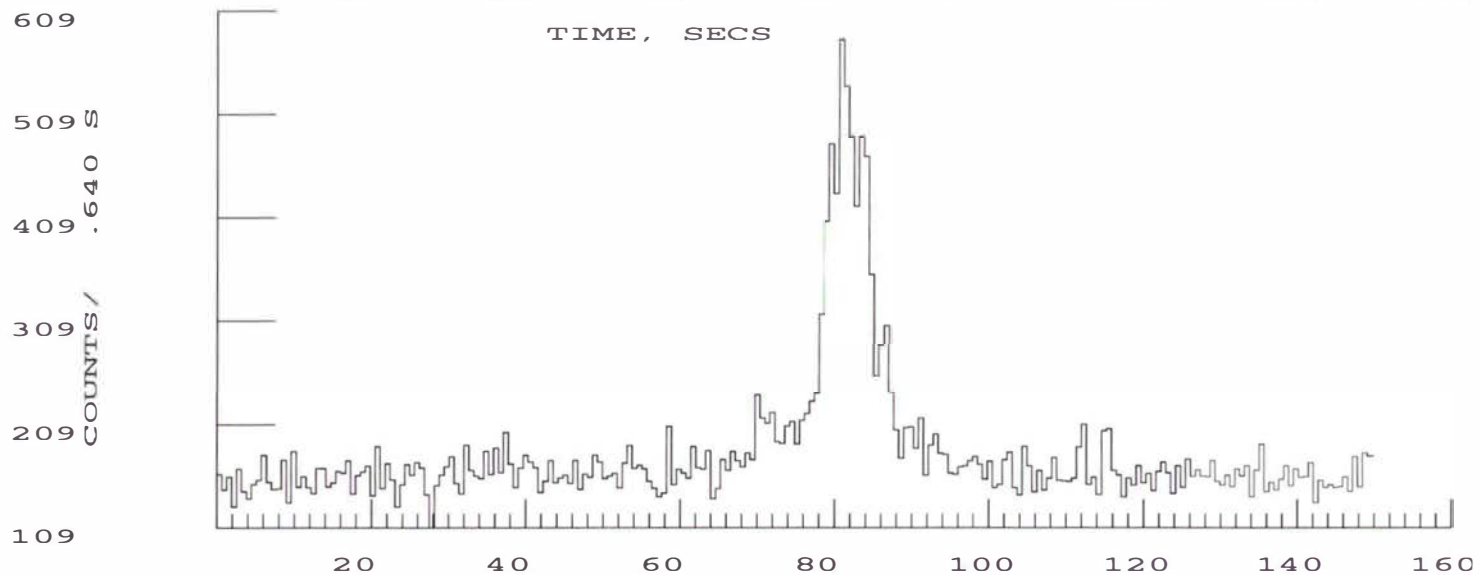
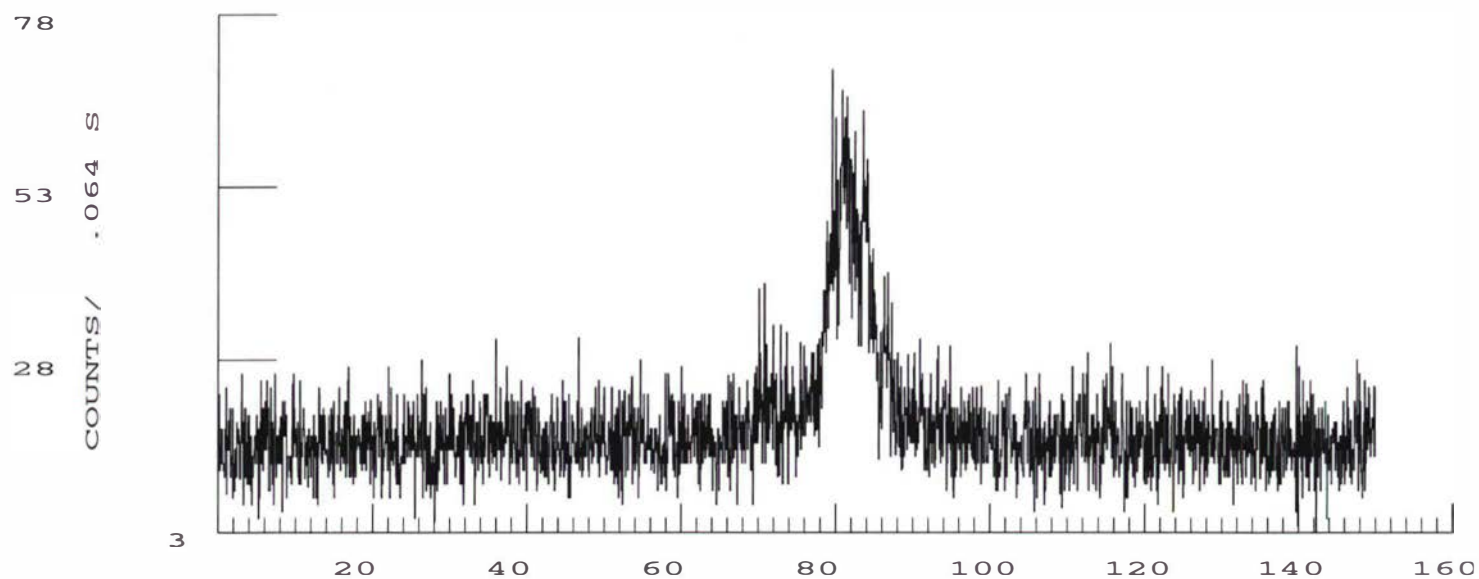
HESSI

18/05/13

50022.000

13:53:42.0

09/10/15



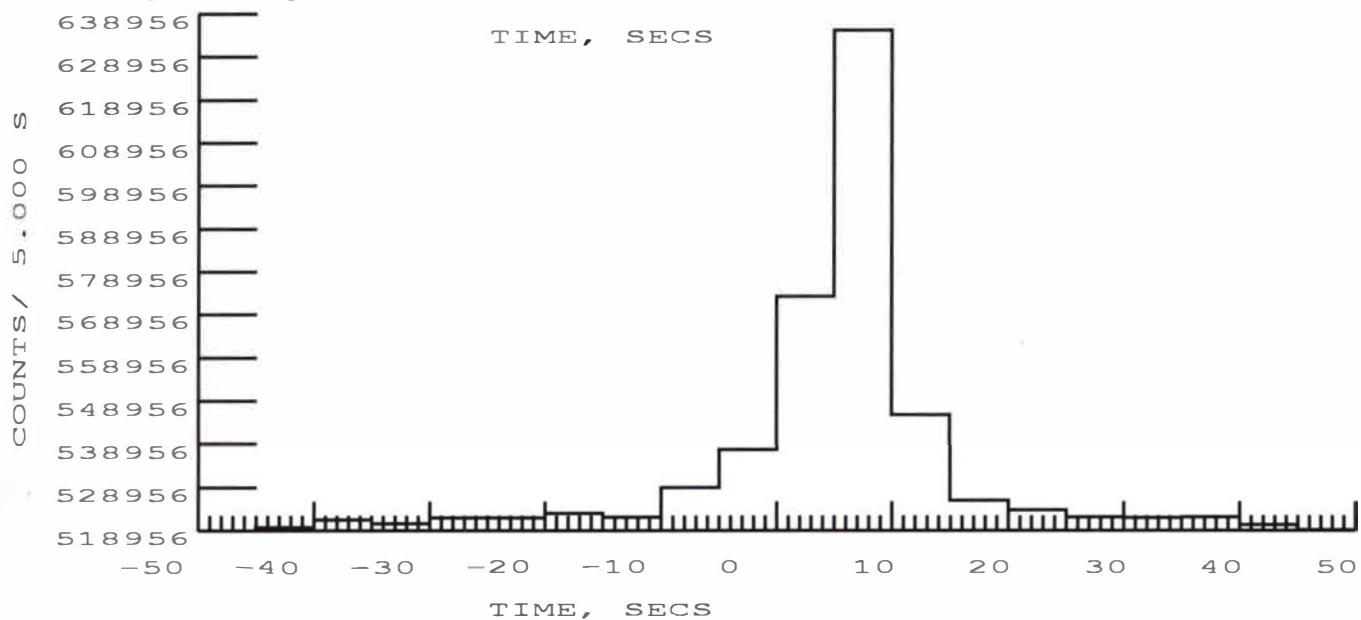
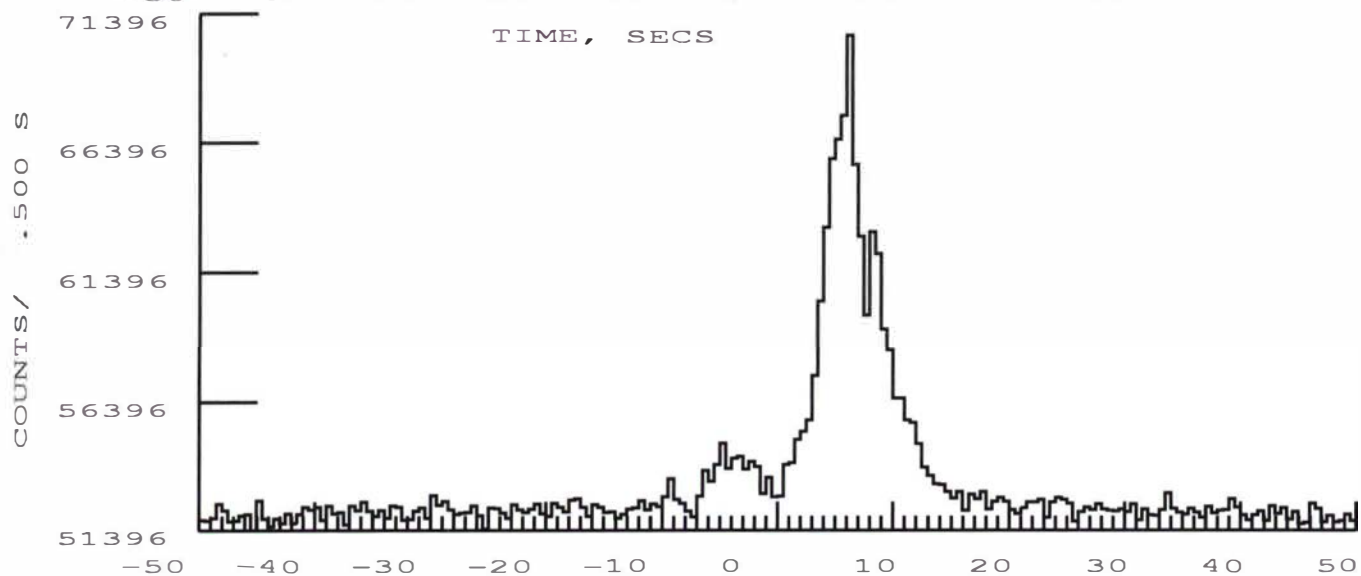
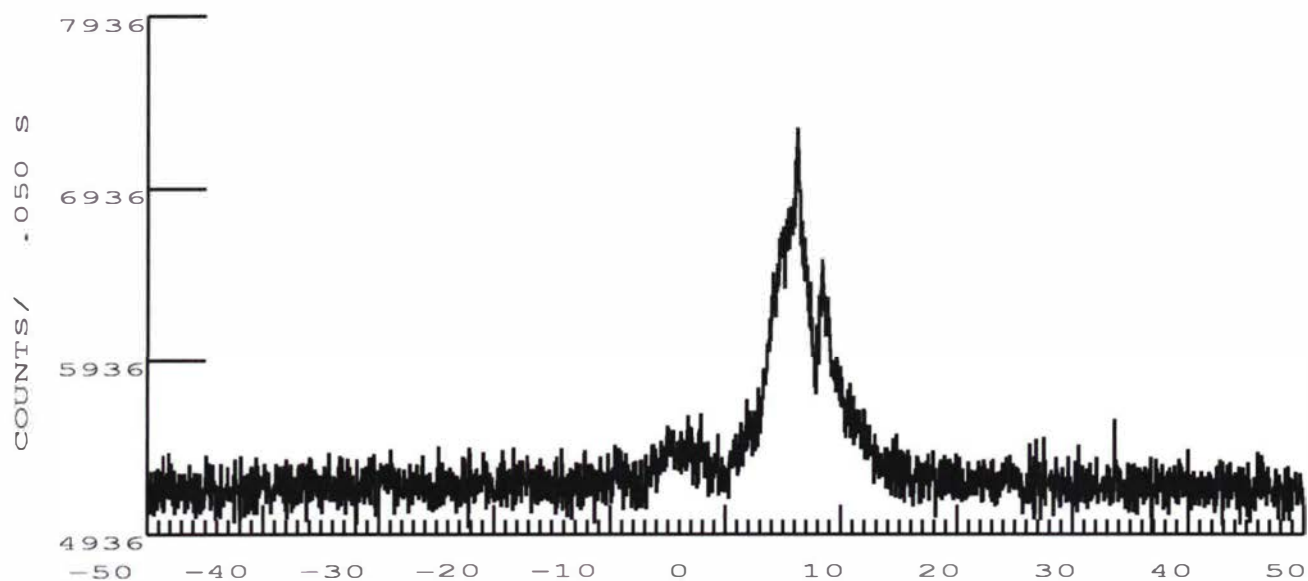
INTEGRAL

18/05/13

50097.000

13:54:57.0

09/10/15



From vxw@capella2.gsfc.nasa.gov Sat May 18 19:41:30 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Sat, 18 May 2013 22:41:28 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/FERMI_GBM_FINAL_POSITION
X-Barracuda-BRTS-Status: 1

TITLE: GCN/FERMI NOTICE
NOTICE_DATE: Sun 19 May 13 02:41:27 UT
NOTICE_TYPE: Fermi-GBM Final Position
RECORD_NUM: 0
TRIGGER_NUM: 390575591
GRB_RA: 288.130d {+19h 12m 31s} (J2000),
288.313d {+19h 13m 15s} (current),
287.447d {+19h 09m 47s} (1950)
GRB_DEC: -9.000d {-08d 59' 59"} (J2000),
-8.977d {-08d 58' 35"} (current),
-9.085d {-09d 05' 05"} (1950)
GRB_ERROR: 3.10 [deg radius, statistical only]
GRB_DATE: 16430 TJD; 138 DOY; 13/05/18
GRB_TIME: 47588.61 SOD {13:13:08.61} UT
GRB_PHI: 211.89 [deg]
GRB_THETA: 38.98 [deg]
E_RANGE: 50.000 - 300.000 [keV]
LOC_ALGORITHM: 414 (Gnd S/W Version number)
SUN_POSTN: 56.05d {+03h 44m 13s} +19.78d {+19d 46' 46"}
SUN_DIST: 128.44 [deg] Sun_angle= 8.5 [hr] (West of Sun)
MOON_POSTN: 158.68d {+10h 34m 43s} +3.70d {+03d 41' 52"}
MOON_DIST: 129.70 [deg]
MOON_ILLUM: 59 [%]
GAL_COORDS: 27.25, -8.75 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 288.41, 13.29 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: Fermi-GBM Final Position.
COMMENTS: This Notice was ground-generated -- not flight-generated.

Not in list

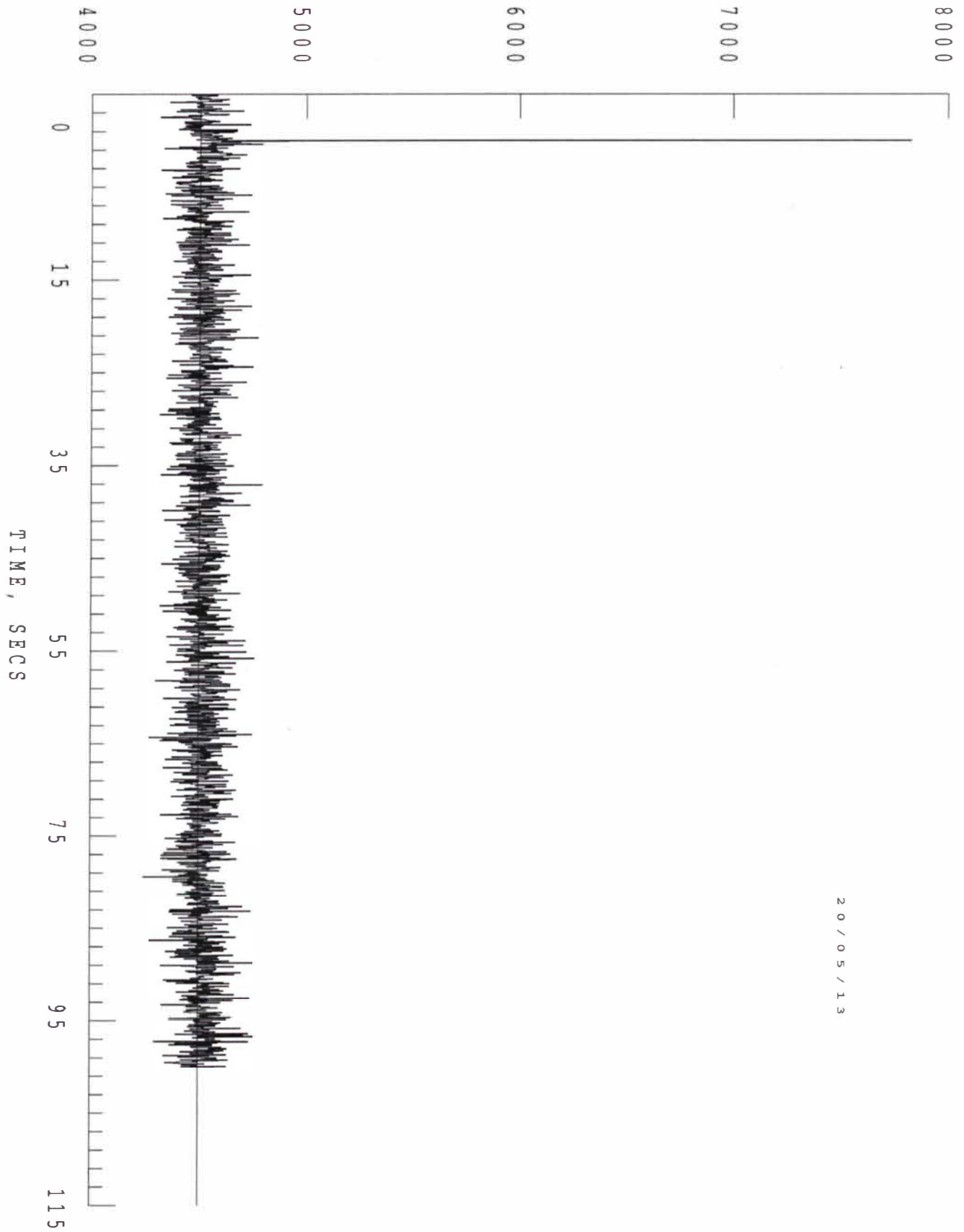
INTEGRAL

19/05/13

74598.221

100-10000 keV

COUNTS/0.050 S



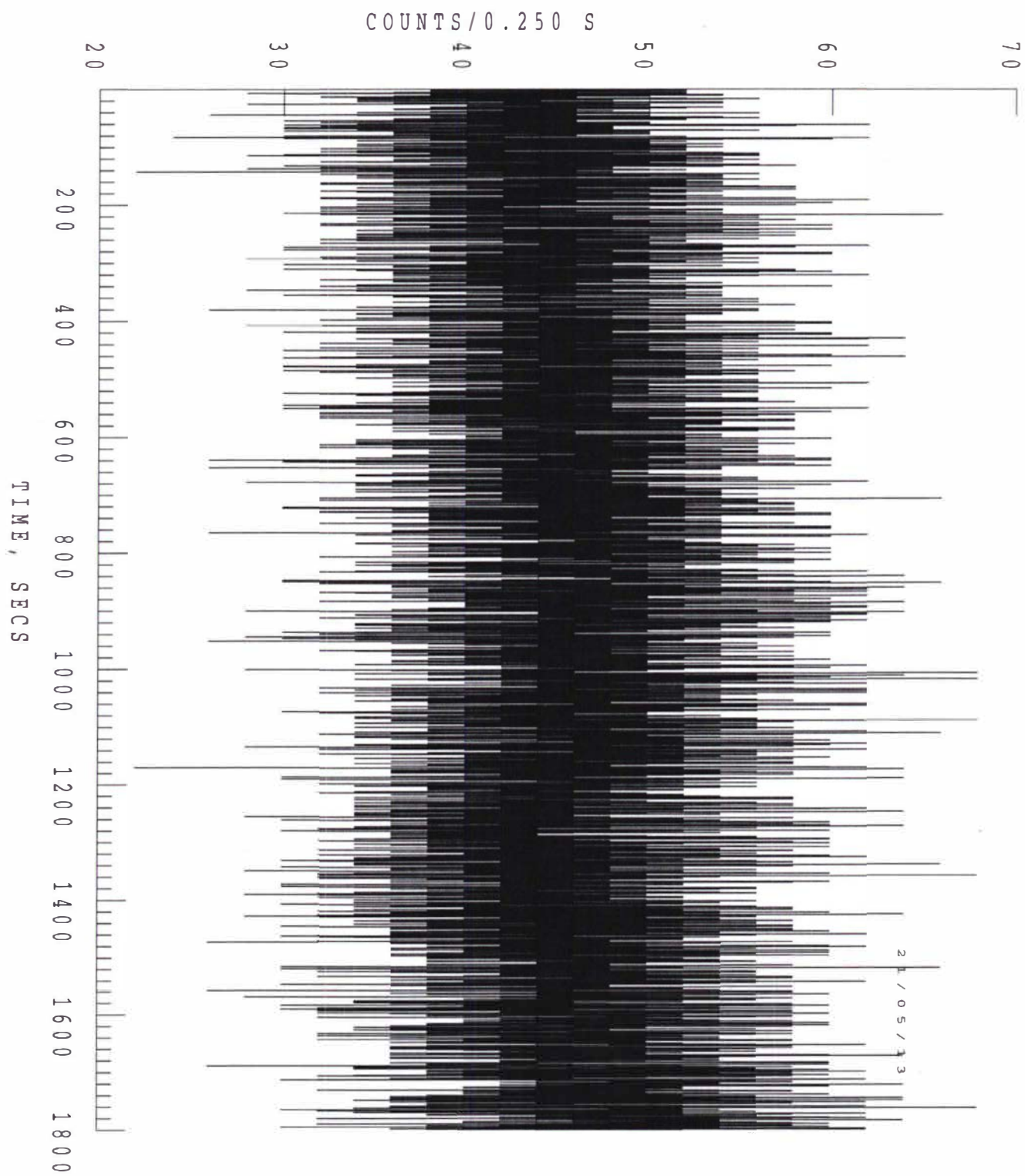
20/05/13

MS01

19/05/13

73282.878

50 - 3000 keV



Subject: [Ipn] BAT lightcurve for trigger at 130519_2043

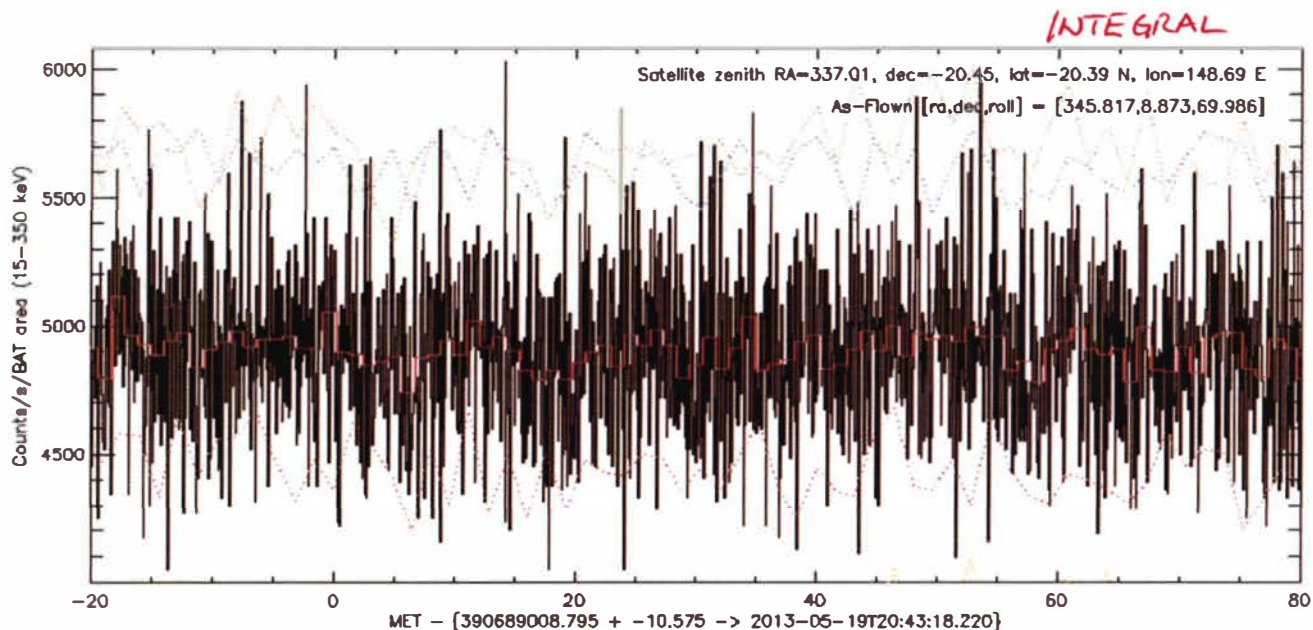
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/20/2013 9:48 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130519_2043.png



```
% /usr/local/bin/swinfo -o 390689008.795
Time(MET + UTC -> UT): 390689008.795 + -10.575 -> 2013-05-19T20:43:18.220
YYMMDD_SOD: 130519_74598.220 DOY=139
Swift Zenith(RA,dec): 337.01, -20.45
Swift Location(lon,lat,alt): 148.69 E, -20.39 N, 572 km
Obs Sequence Number: 00035470037
Obs Target Name: NGC 7469
Obs Date and Times: 2013-05-19 20:38:51 - 20:57:47
Obs Pointing(ra,dec,roll): 345.817, 8.873, 69.99
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130519_2043_bat64ms_ipn

87.1 KB

/tmp/130519_2043.png

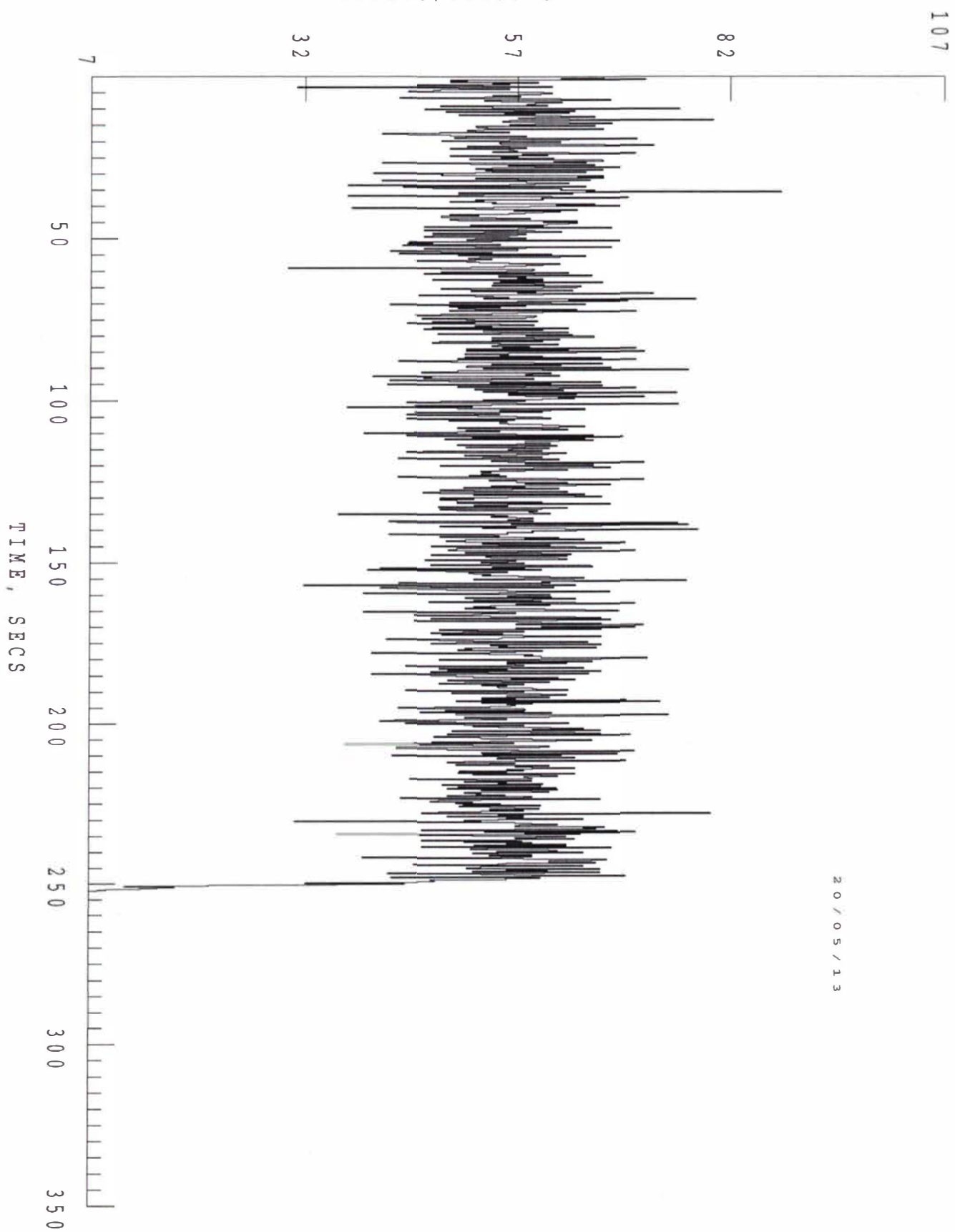
20.0 KB

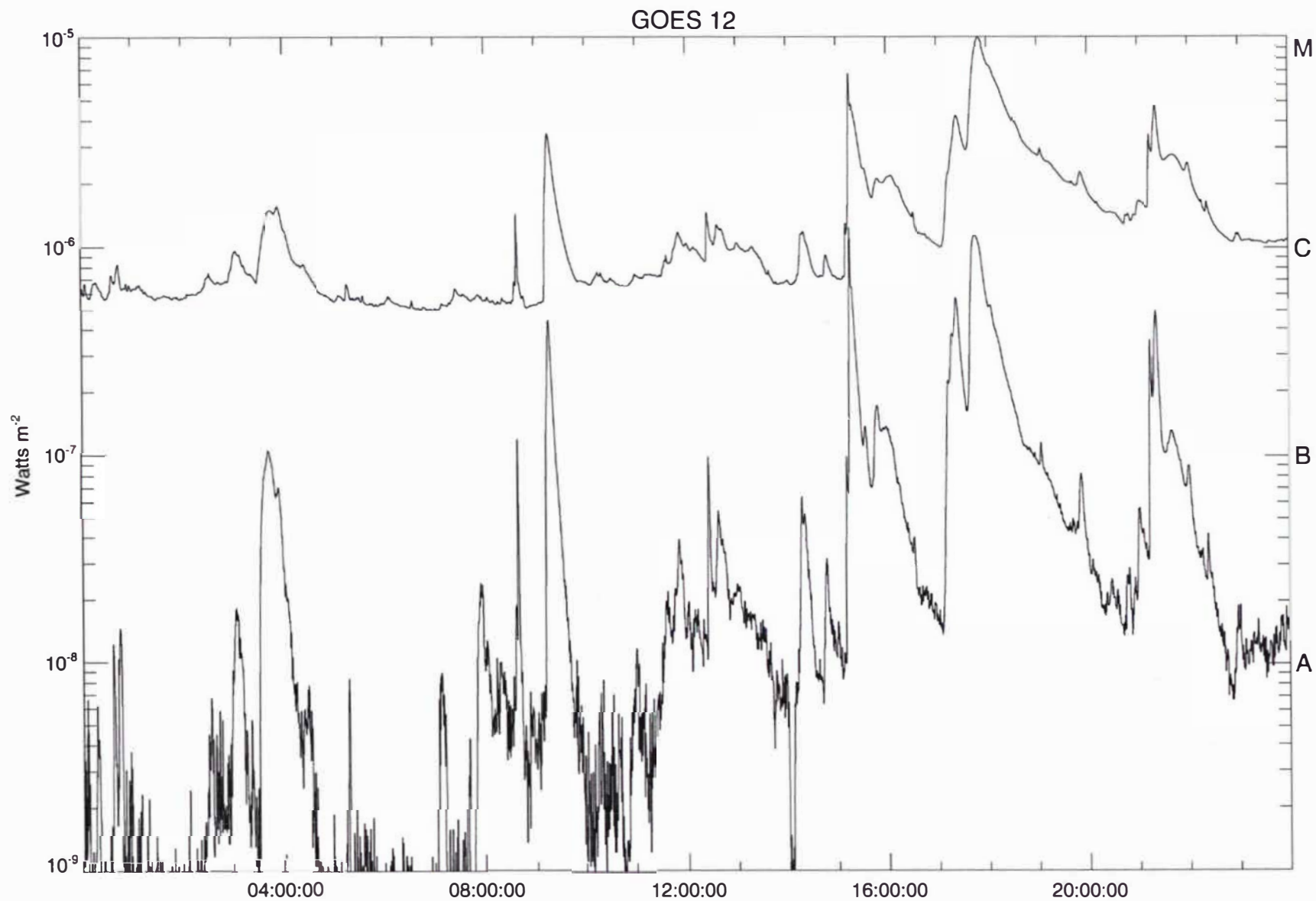
HESSI

19/05/13 74448.000 (INTEGRAL_20130519_74598)

25 - 150 keV

COUNTS/0.250 S





Data Start: 13/05/19, 0000:11

Plot created: 13/05/22, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: [Ipn] BAT lightcurve for trigger at 130520_0355

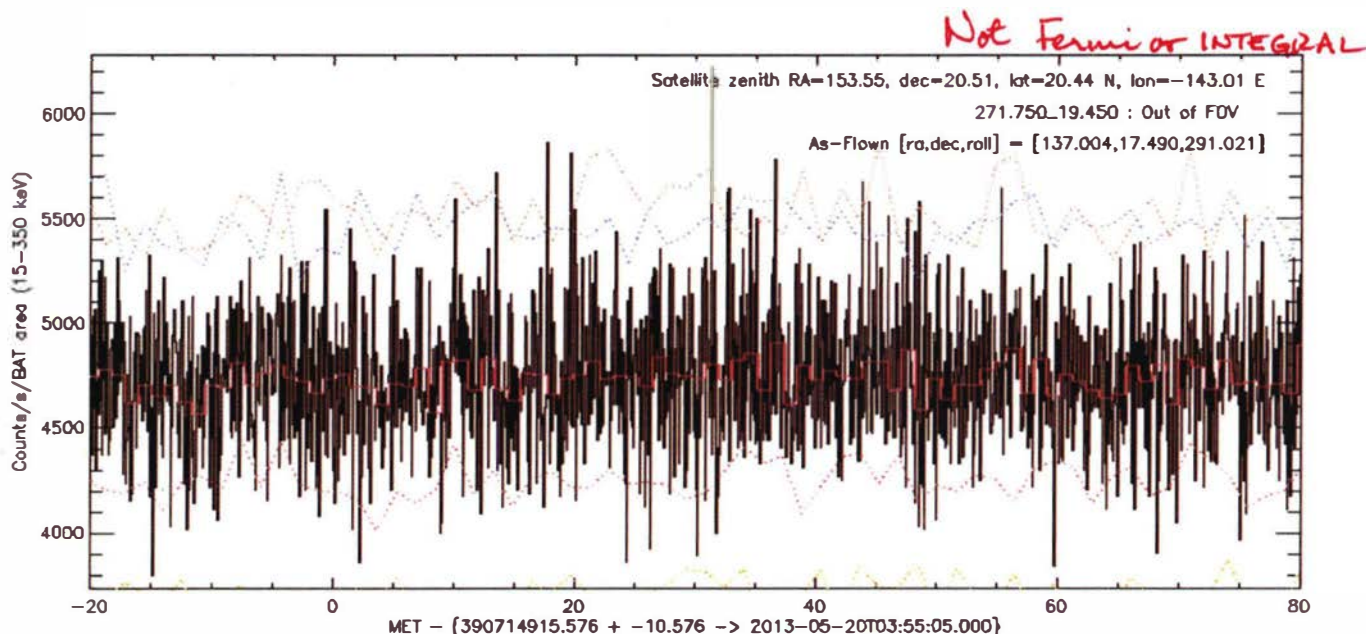
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/20/2013 2:14 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130520_0355.png



```
% /usr/local/bin/swinfo -o 390714915.576 -s 271.750_19.450
Time(MET + UTC -> UT): 390714915.576 + -10.576 -> 2013-05-20T03:55:05.000
YYMMDD_SOD: 130520_14105.000 DOY=140
Swift Zenith(RA,dec): 153.55, 20.51
Swift Location(lon,lat,alt): -143.01 E, 20.44 N, 580 km
Obs Sequence Number: 00555163013
Obs Target Name: GRB 130505A
Obs Date and Times: 2013-05-20 03:30:51 - 04:00:50
Obs Pointing(ra,dec,roll): 137.004, 17.490, 291.02
271.750_19.450_imageloc (boresight_dist, angle): (122, 31)
271.750_19.450_exposure (cm2 cos adjusted): 0
271.750_19.450_altitude: 6 (depressed but unattenuated)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130520_0355.png

18.8 KB

/tmp/130520_0355_bat64ms_ipn

27 bytes

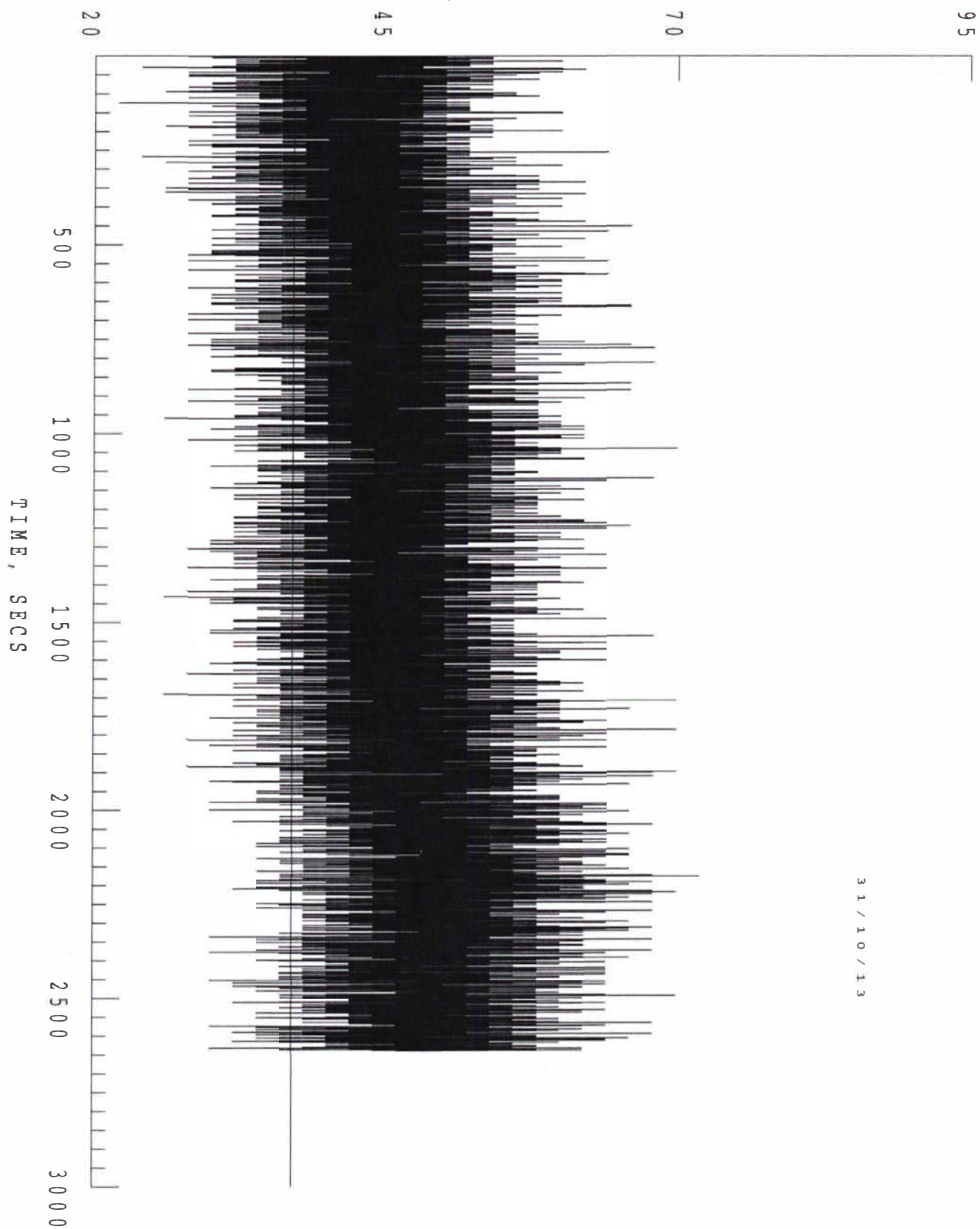
MS01

20/05/13

79161.340

50 - 3000 keV

COUNTS/0.250 S

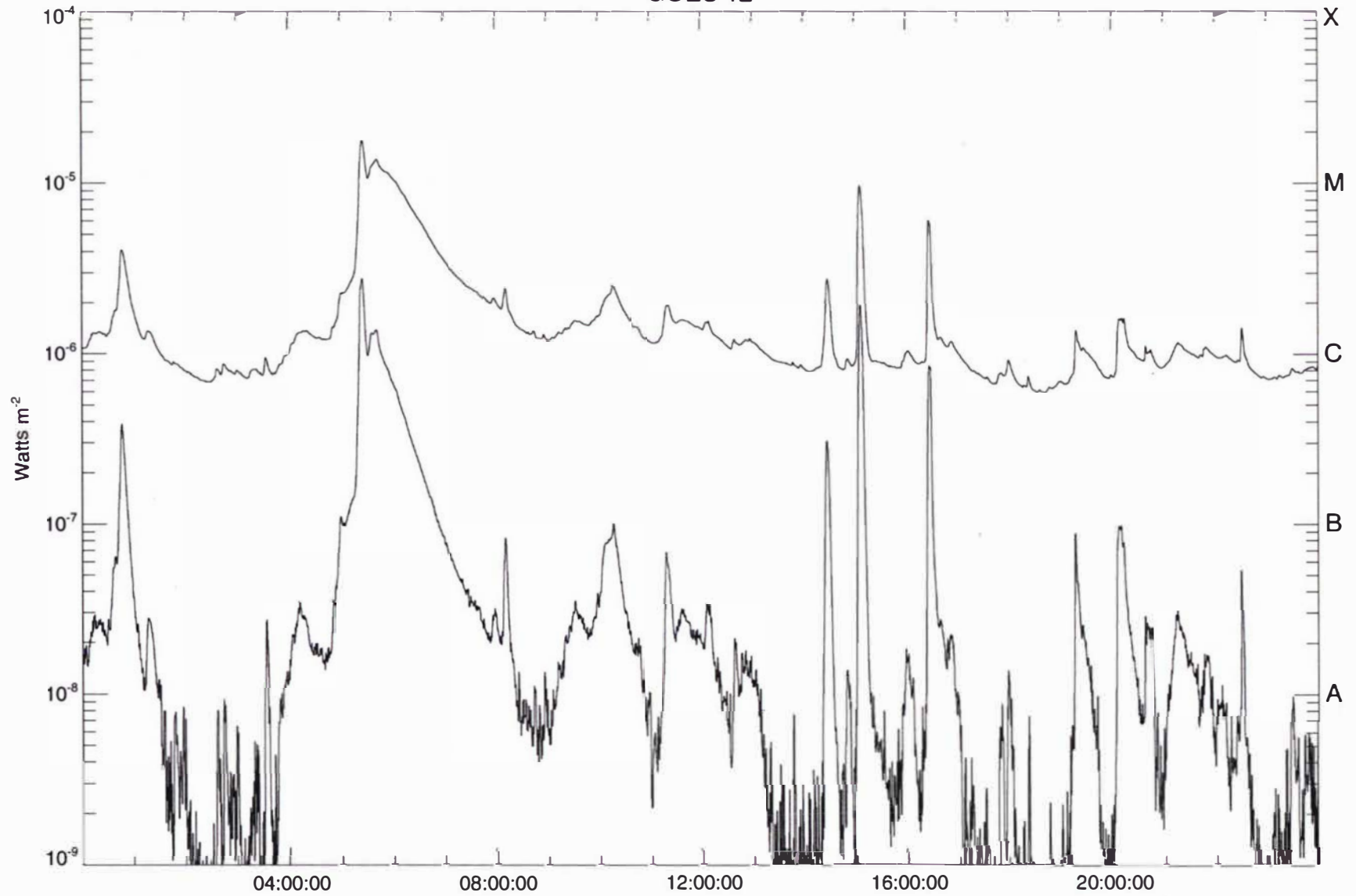


31/10/13

From williams@gammaburst.ssl.berkeley.edu Wed Oct 30 10:30:04 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
 Date: Wed, 30 Oct 2013 10:30:02 -0800 (PST)
 X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20130520_80495
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 30-Oct-2013 11:28:47.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.500000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

GOES 12



Data Start: 13/05/20, 0000:12

Plot created: 13/05/23, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

INTEGRAL

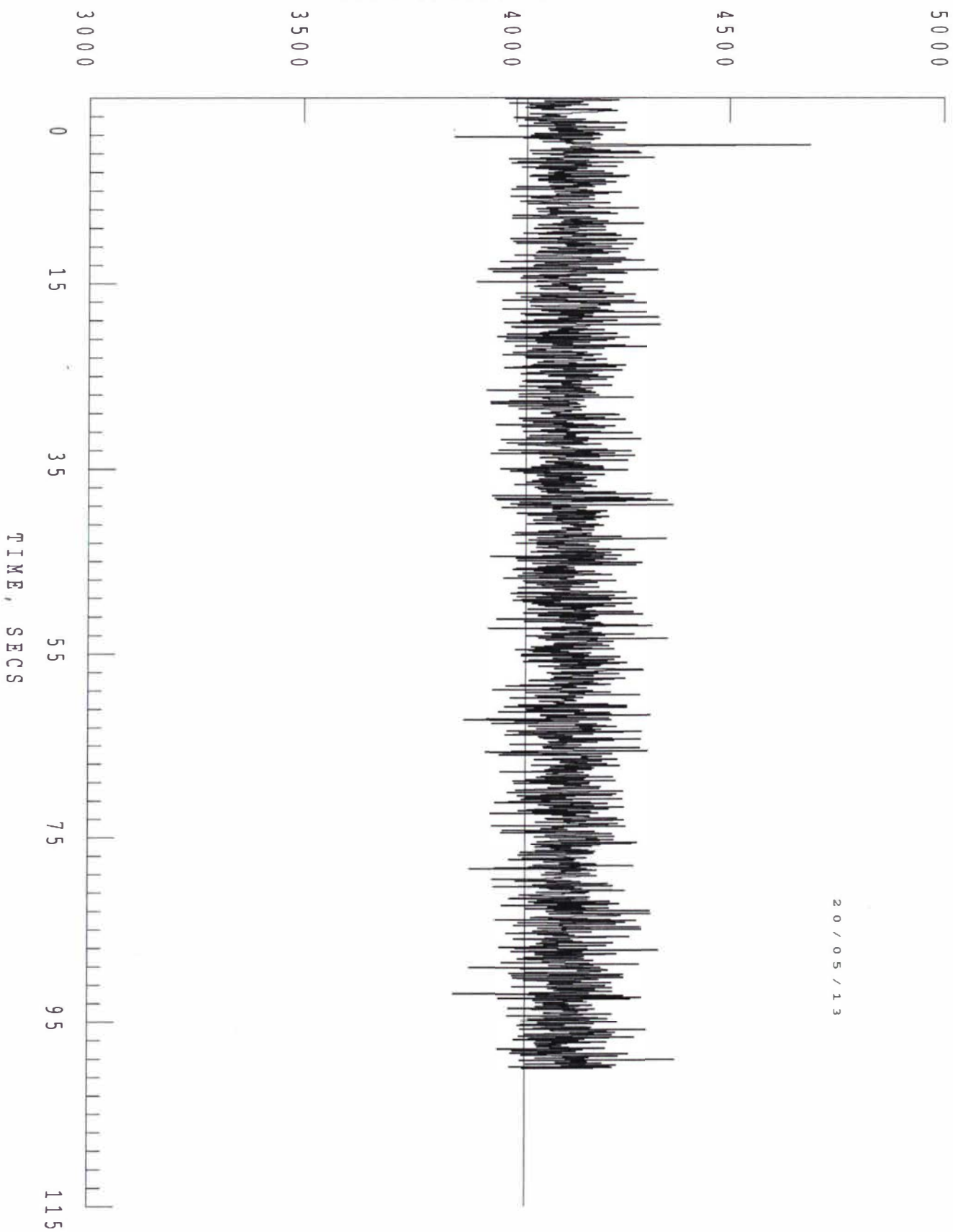
21/05/13

3570.035

A

100-10000 keV

COUNTS/0.050 S



HESSI

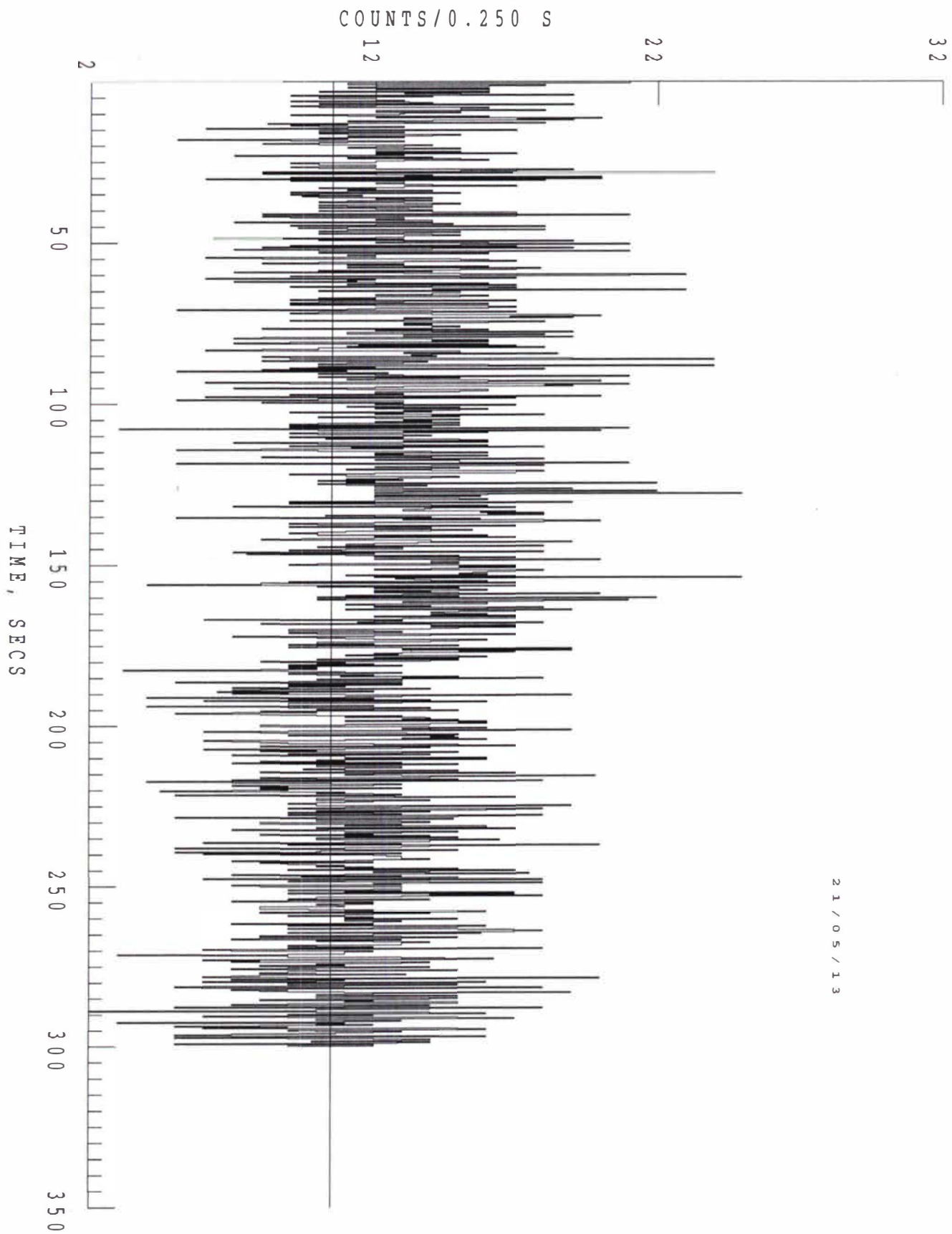
21/05/13

3420.000

(INTEGRAL_20130521_03570)

A

25- 150 keV



21/05/13

A

Subject: [Ipn] BAT lightcurve for trigger at 130521_0059

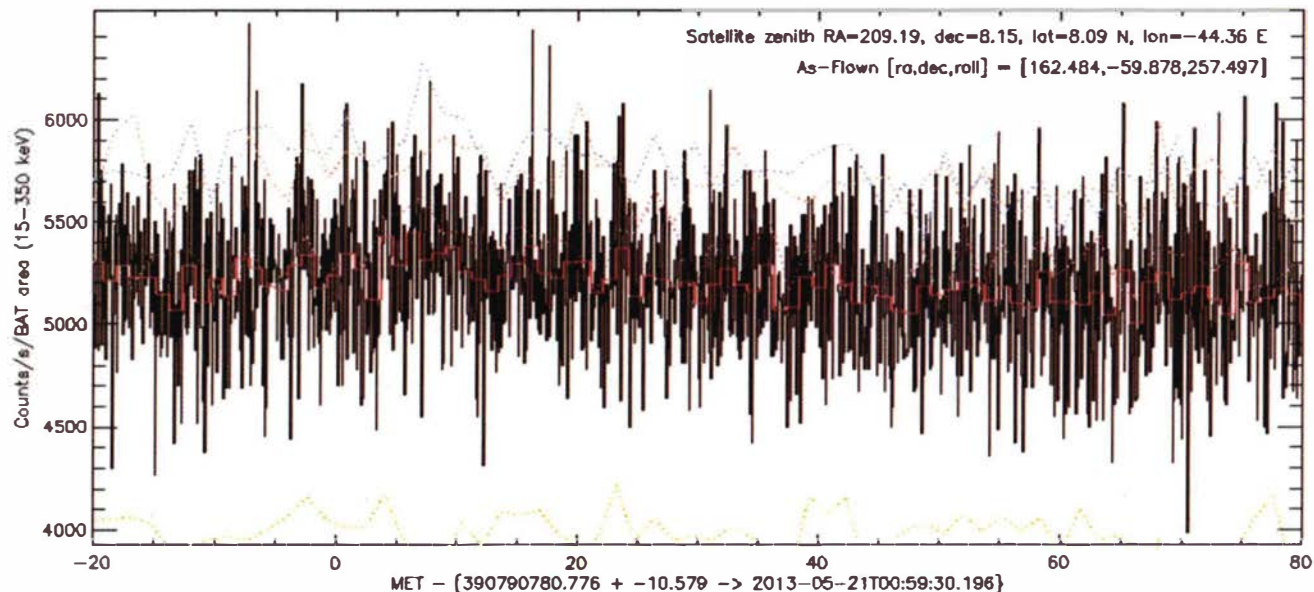
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/20/2013 9:30 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130521_0059.png



```
% /usr/local/bin/swinfo -o 390790780.775
Time(MET + UTCF -> UT): 390790780.776 + -10.579 -> 2013-05-21T00:59:30.196
YYMMDD_SOD: 130521_03570.196 DOY=141
Swift Zenith(RA,dec): 209.19, 8.15
Swift Location(lon,lat,alt): -44.36 E, 8.09 N, 575 km
Obs Sequence Number: 00031220231
Obs Target Name: 1E 1048.1-5937
Obs Date and Times: 2013-05-21 00:50:51 - 01:01:50
Obs Pointing(ra,dec,roll): 162.484, -59.878, 257.50
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130521_0059.png

20.2 KB

/tmp/130521_0059_bat64ms_ipn

87.0 KB

Date: Sep 23 2016

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

- ☐ 1 second timing error corrected? (Jan 1 – Apr 24 2009, and July 1 – August 20, 2012 – leap sec.)

2. AGILE Data

- ☐ 1 second timing error corrected?

3. MESSENGER Data

- ☒ Coarse or Precision oscillator (C or P bronte.jhuapl.edu/spice/kernels/scik/timekeeping/OPS_TIME_ENGR.txt)? **P**
- ☒ Timing checked after ~ 1 week?

4. For Konus events

- ☒ Konus ecliptic latitude used with latest calibration?

5. For Odyssey events

- ☒ Was CHECKMO run to eliminate data gaps?
- ☒ Did the Odyssey ephemeris correspond to the event time? (When there is data in the database, the ephemeris is for the start of record, usually ~1320 s prior to the request time; when there is no data in the database, the ephemeris is for the request time in the e-mail, so the request time in mosearch should be equal to the GRB time. Note that the time in the return e-mail will be ~1320 s prior to the time requested, in the line “no HEND data...”)
- ☐ Was Mars-blocking used?
- ☐ For cruise phase data (April – October 2001), was the updated data used? (Old data has timing errors). For later data, was timing checked after ~1 week?
- ☐ GRS database searched for triggered data? Database data between August 2005 and January 2006 should be re-extracted, due to timing errors. (E-mailed data should be OK).
- ☐ GRS and HEND data cross-correlated to check timing?

6. For 3 or More Spacecraft events

- ☒ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

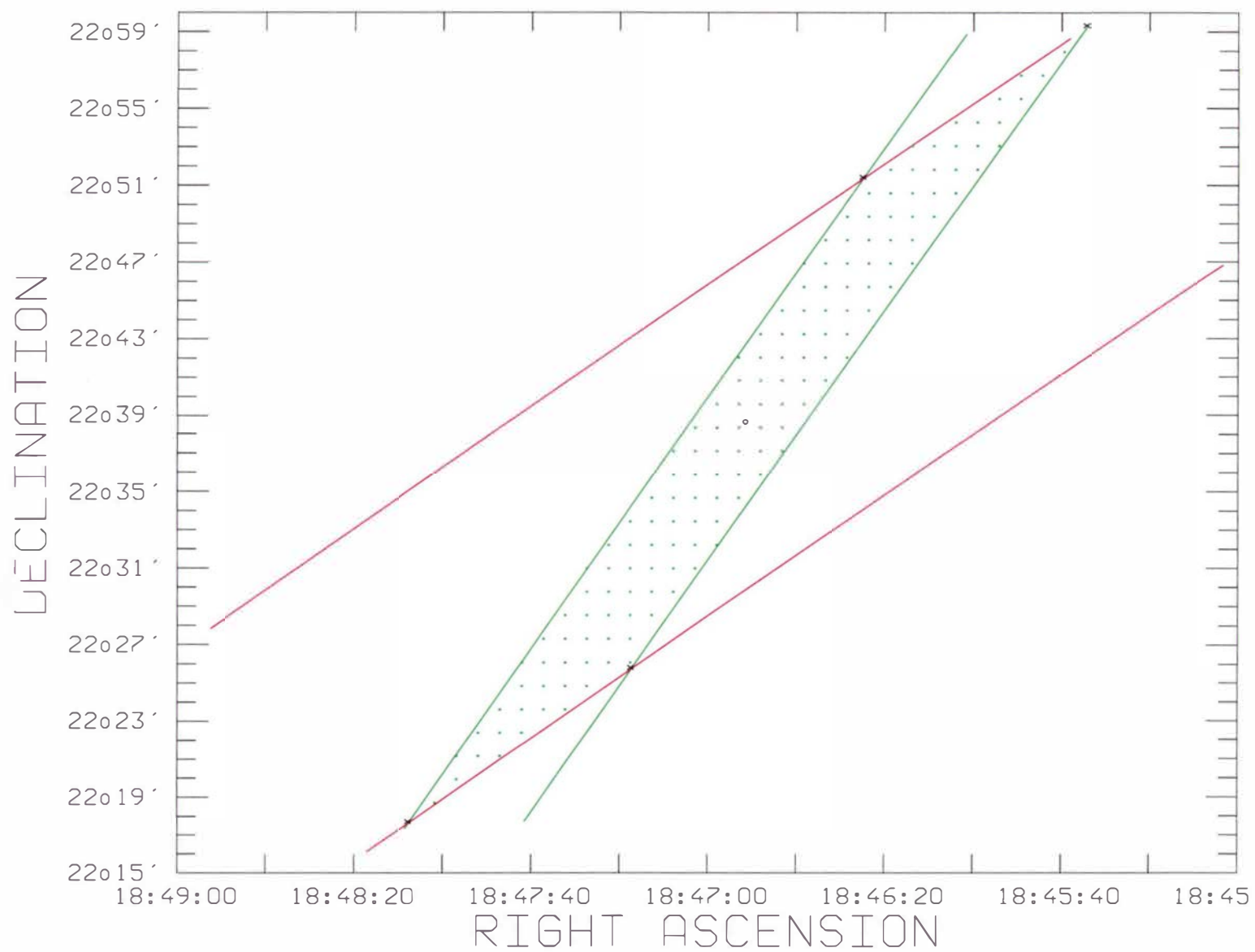
7. For INTEGRAL events

- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
- ☐ Volodymyr's website checked ? (<http://isdc.unige.ch/~savchenk/spiacs-online/spiacs-ipnlc.pl>)

-
- ☒ ACCESS and MBL4 databases updated, with identical times?

GRB130521 ~77072 S

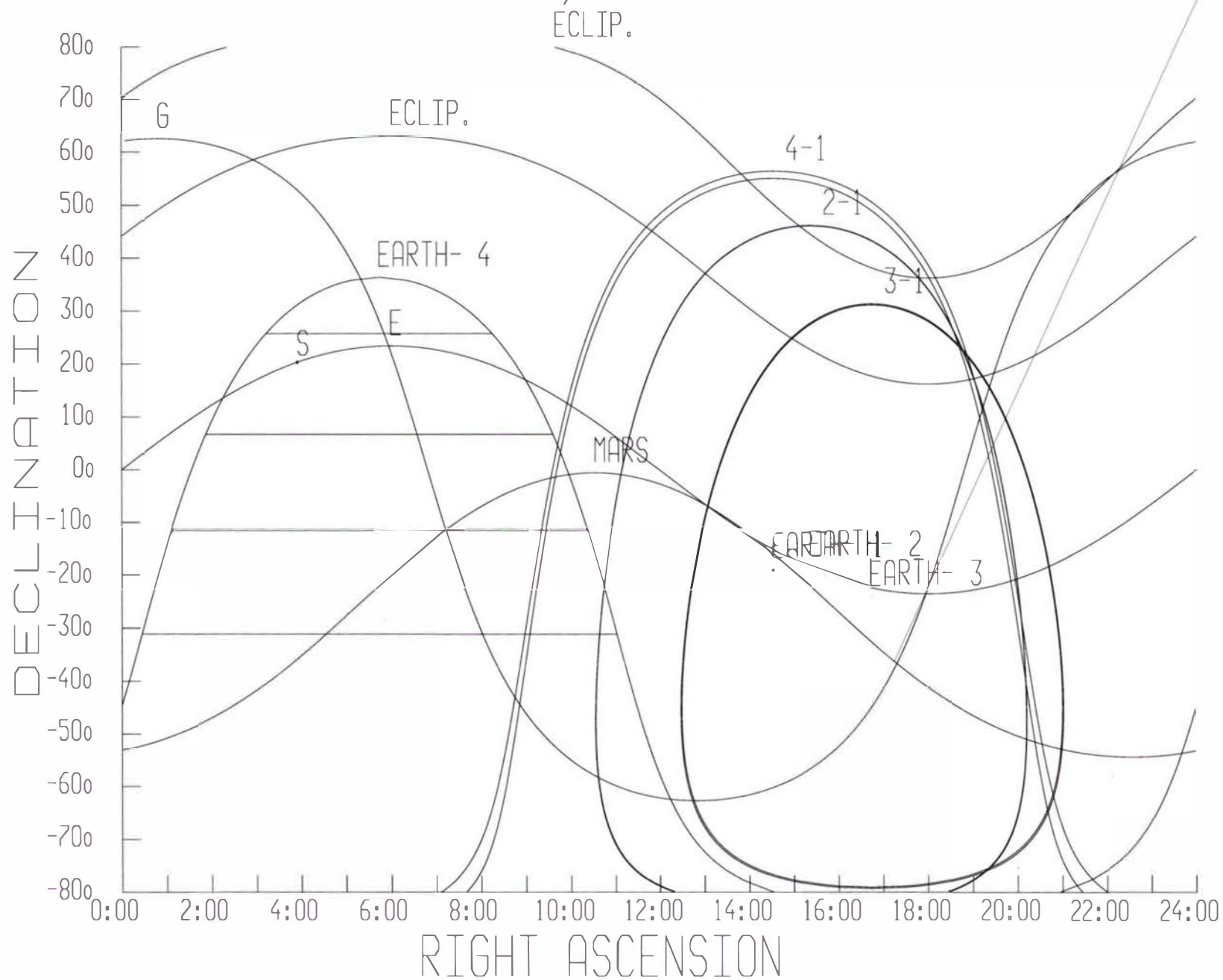
23/09/201

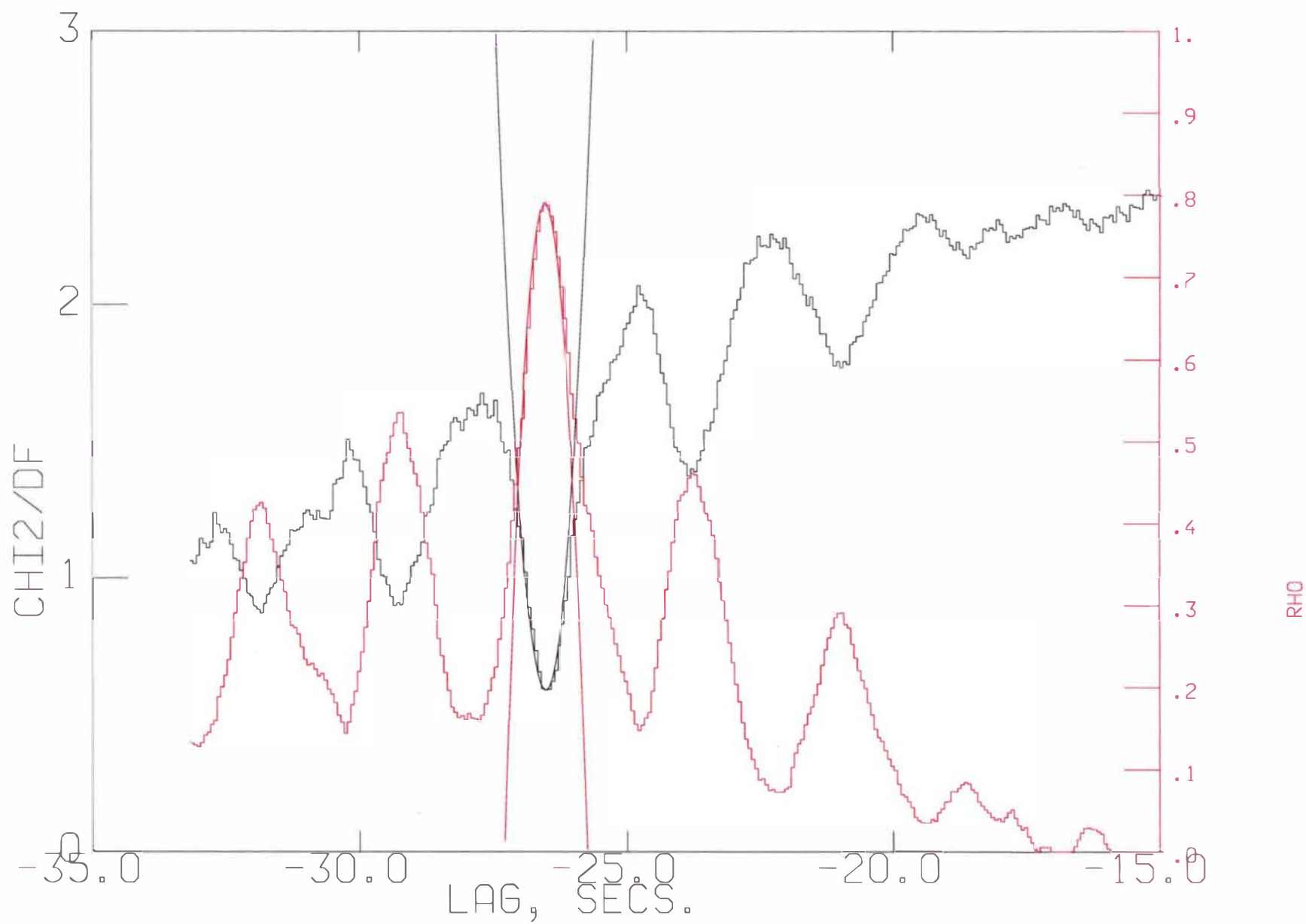


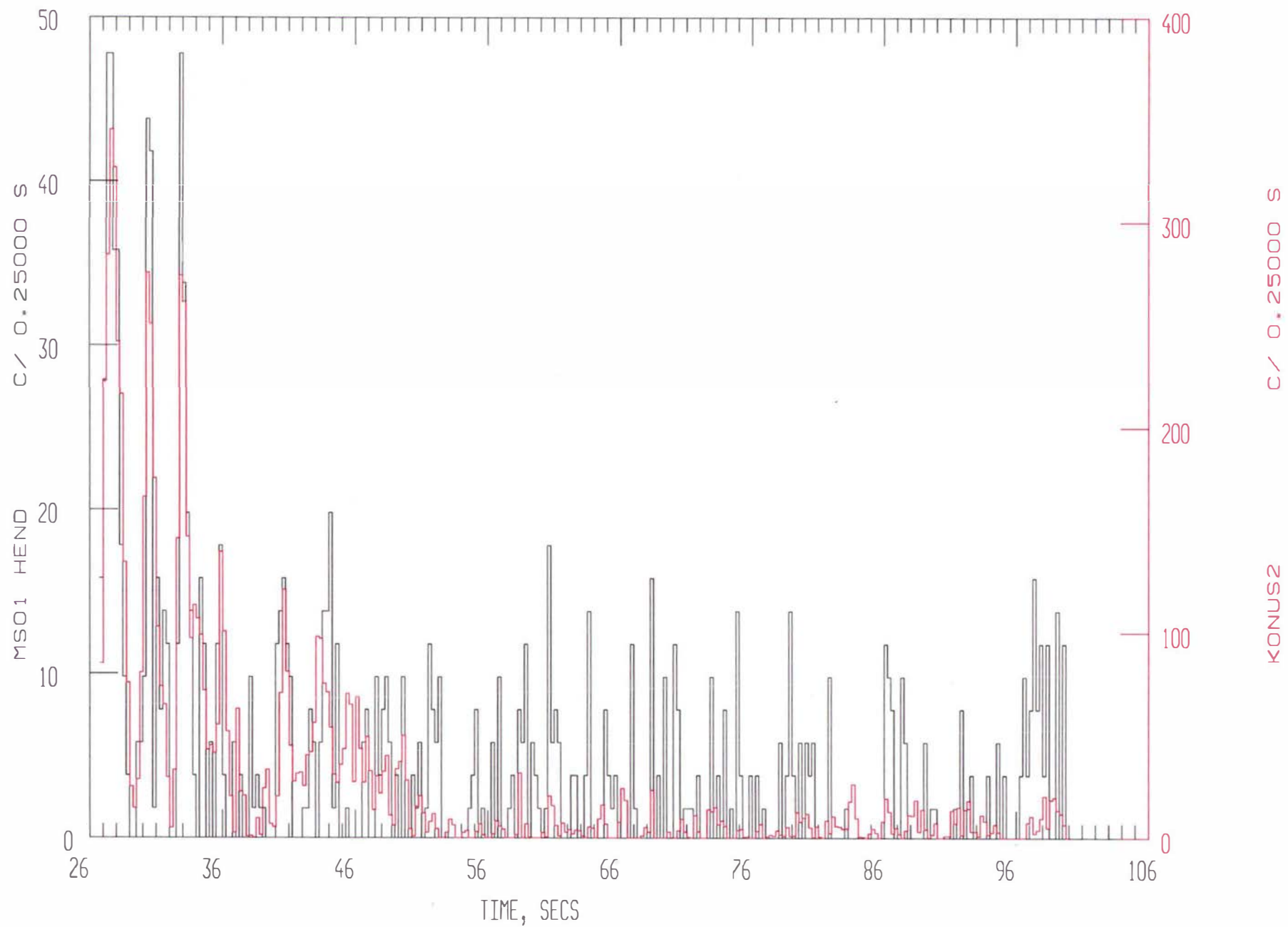
EVENT OF MAY 21, 2013 21:24

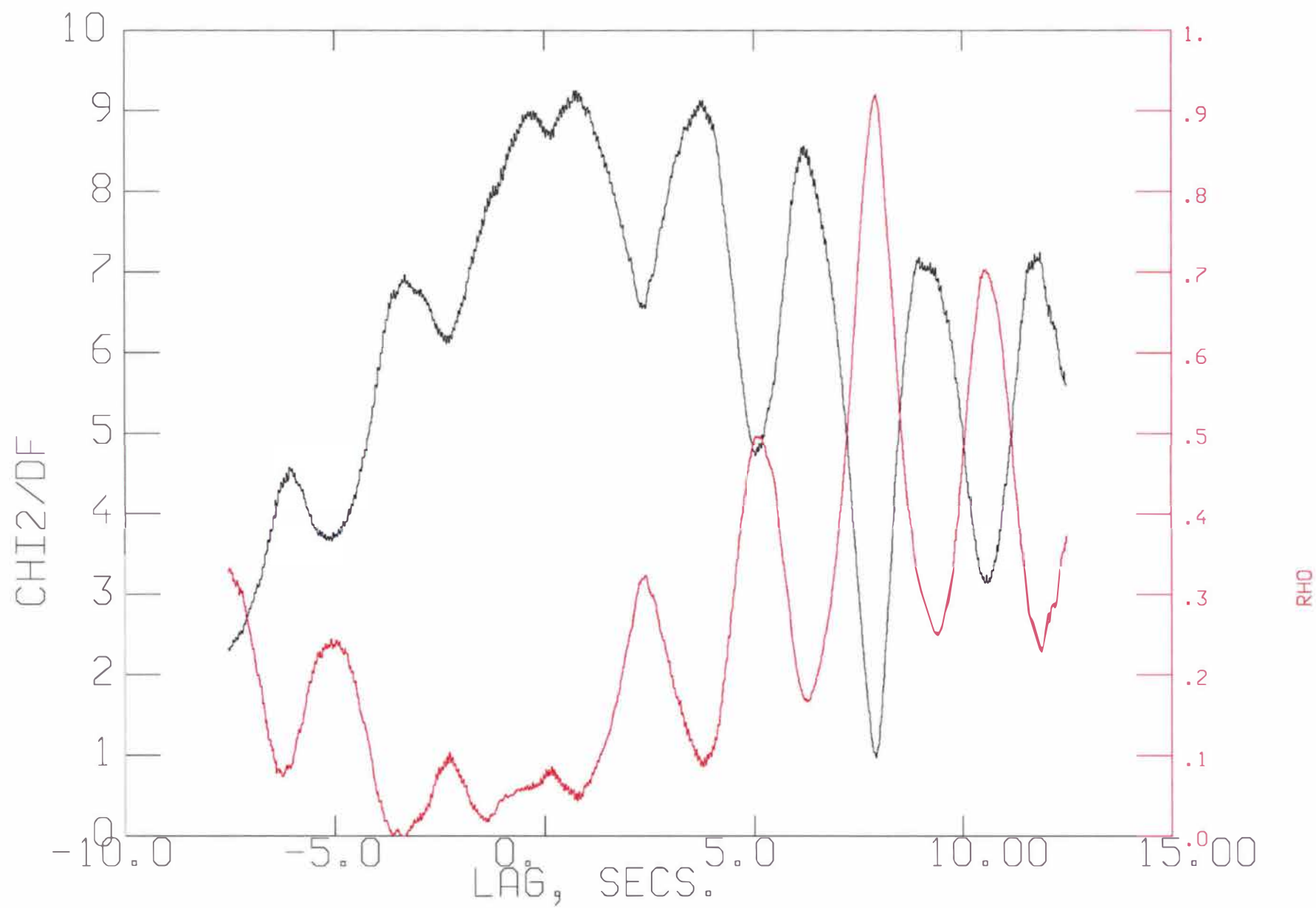
23/09/2016

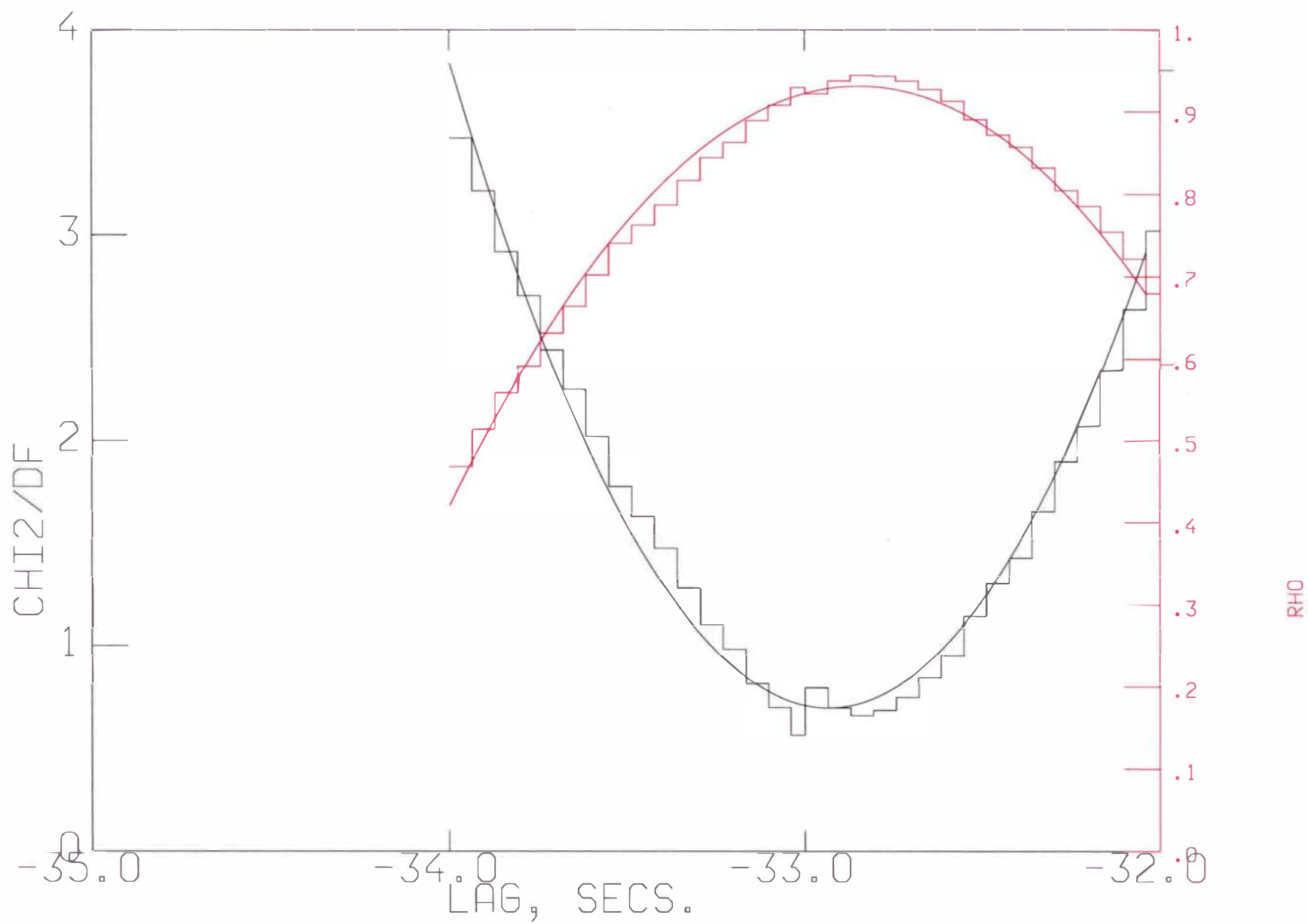
Z-M = CORRELATION BETWEEN SATELLITES Z AND Z
 EARTH-Z = EARTH AS SEEN FROM SATELLITE Z
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS2 2 MO 3 MESSENGER 4 SUZAKU

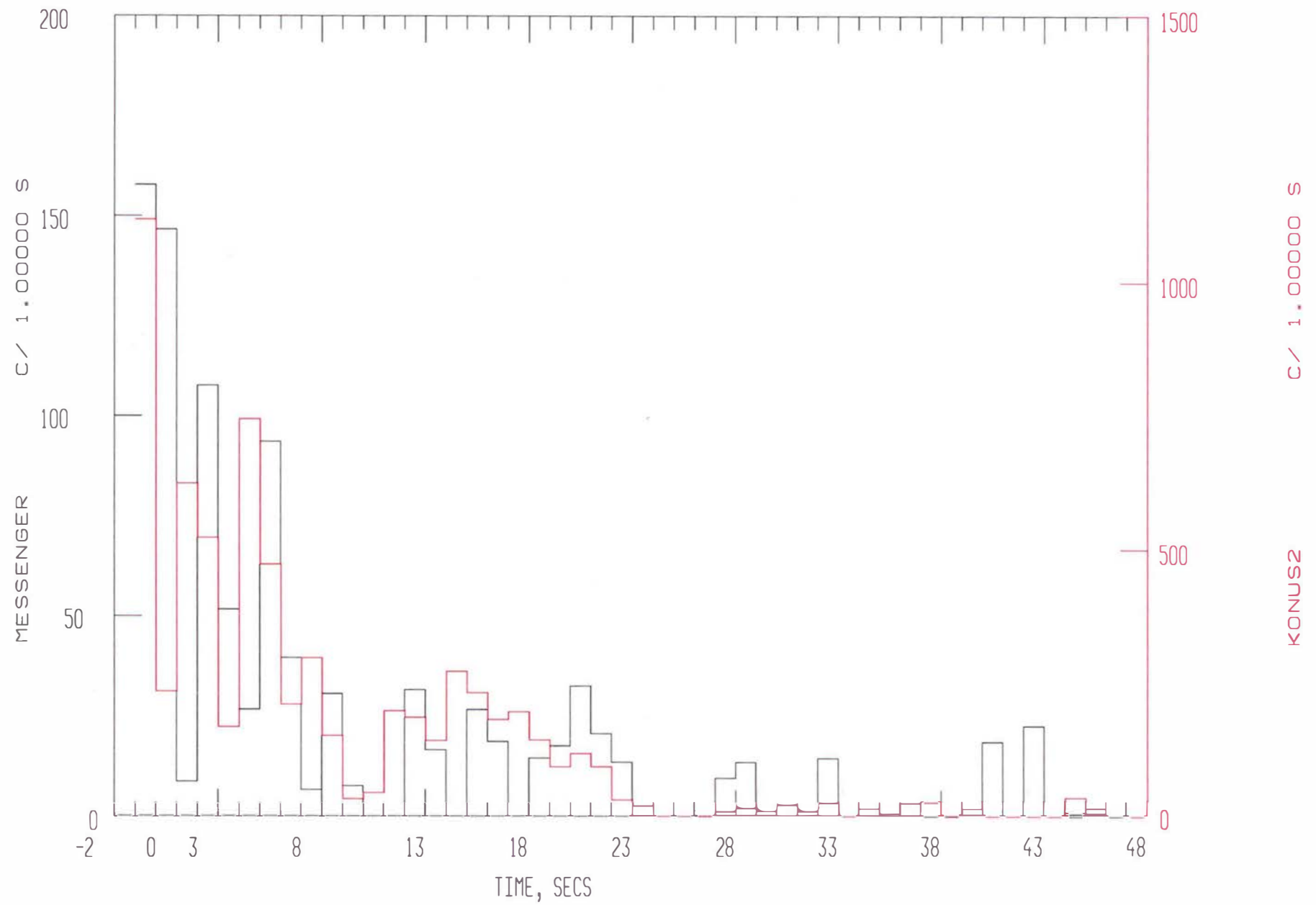












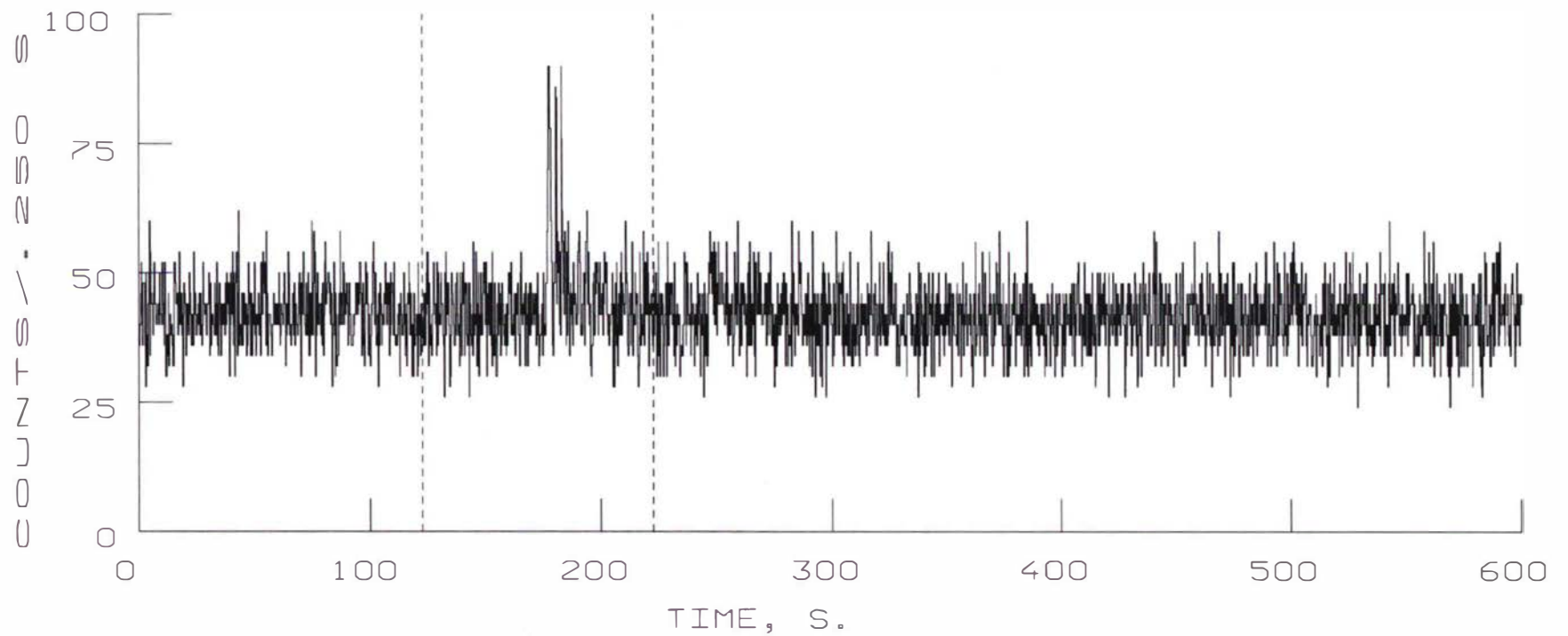
MS01 HEND

23/09/2016

21/05/2013 77419.922 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



KONUS2

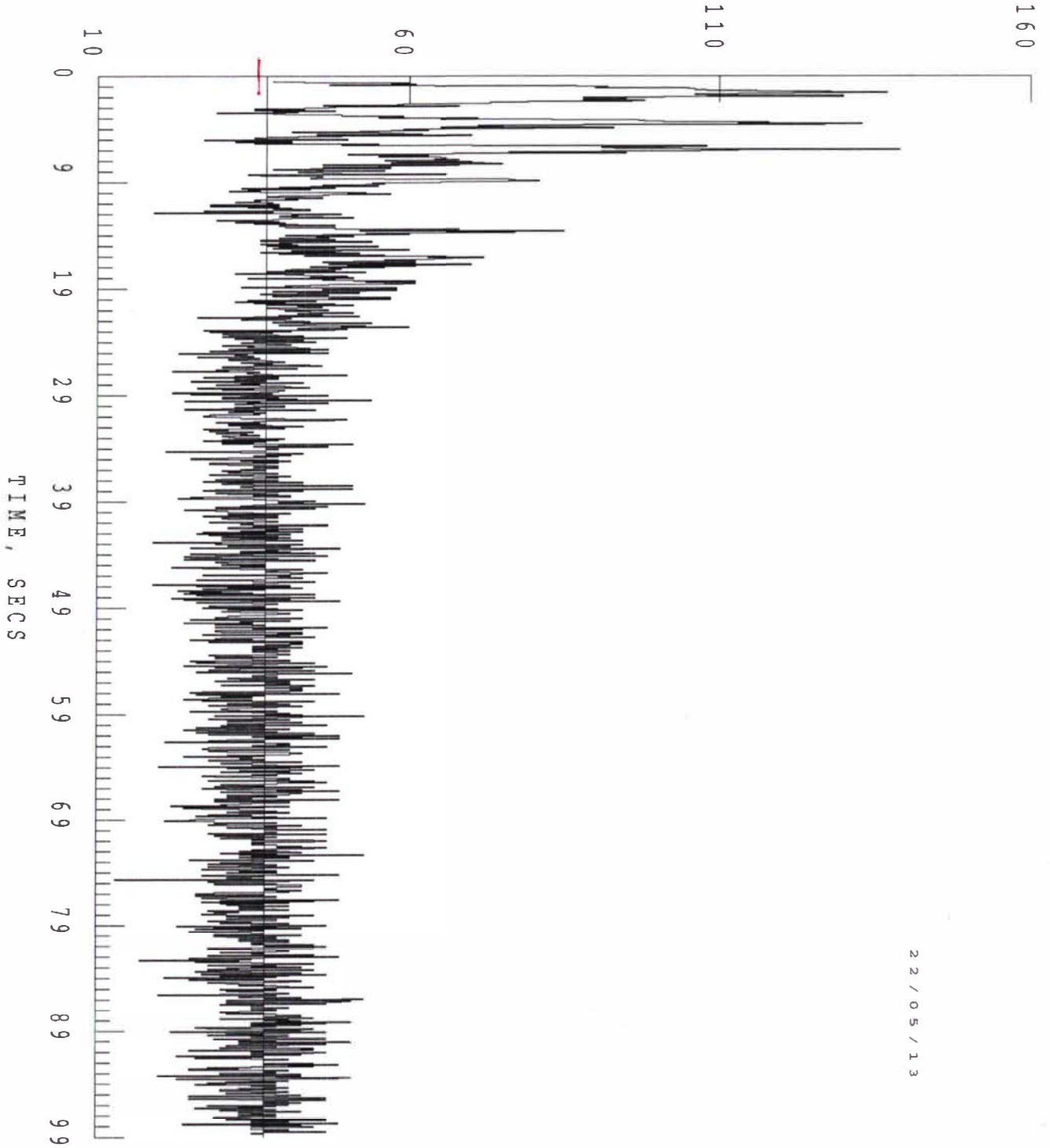
21/05/13

77073.510

B

50 - 200 keV

COUNTS/0.064 S



22/05/13

B

KONUS HRES 20130521 77073

TRIGGER TIME: 21/05/13 DOY 141 Julian 2456435.39205 UT = 21.409 21:24:33 (77073.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

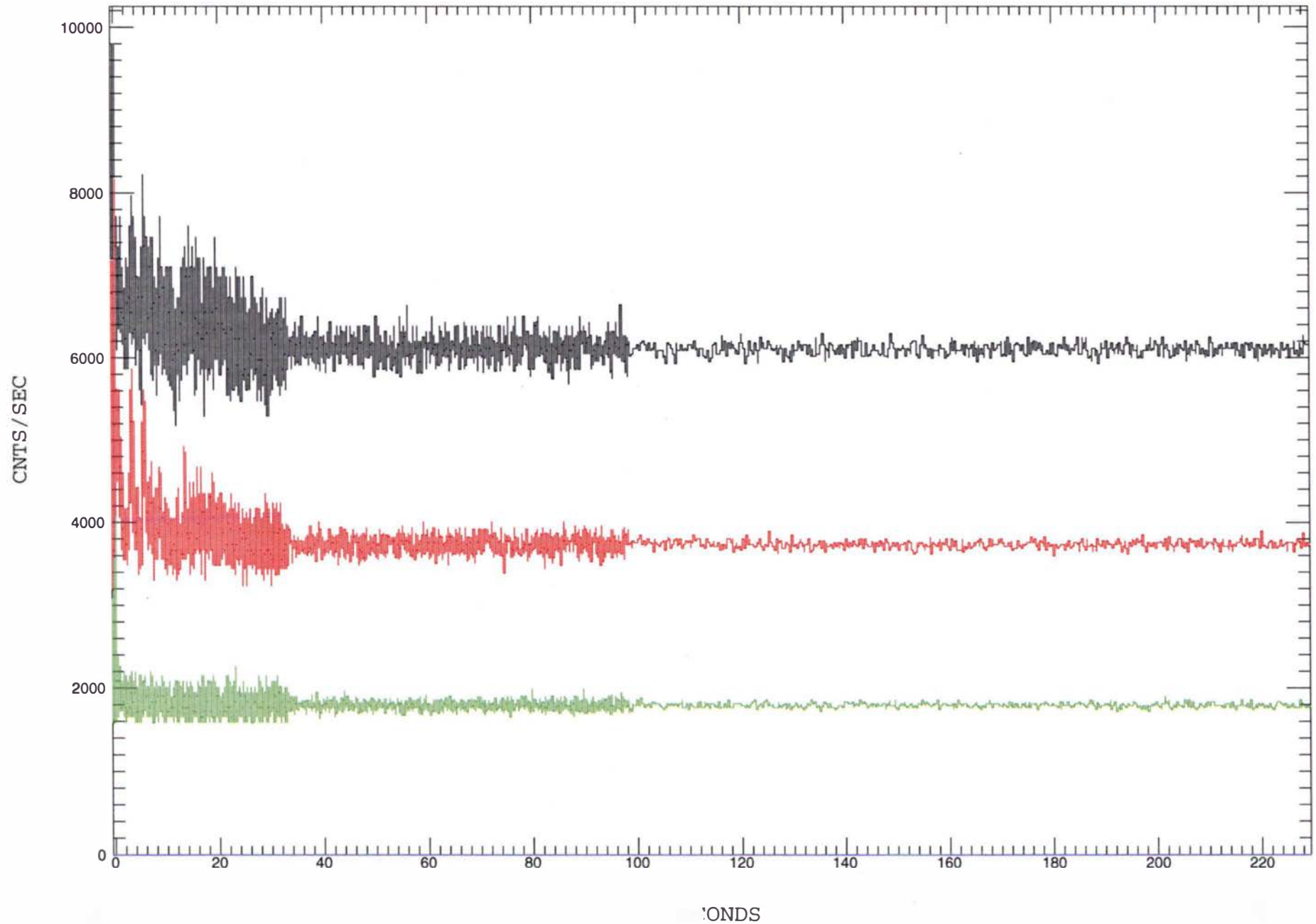
Chan 4 : [> 10 MeV]

Channel 1 + 4800

Channel 2 + 3200

Channel 3 + 1600

Channel 4 + 0

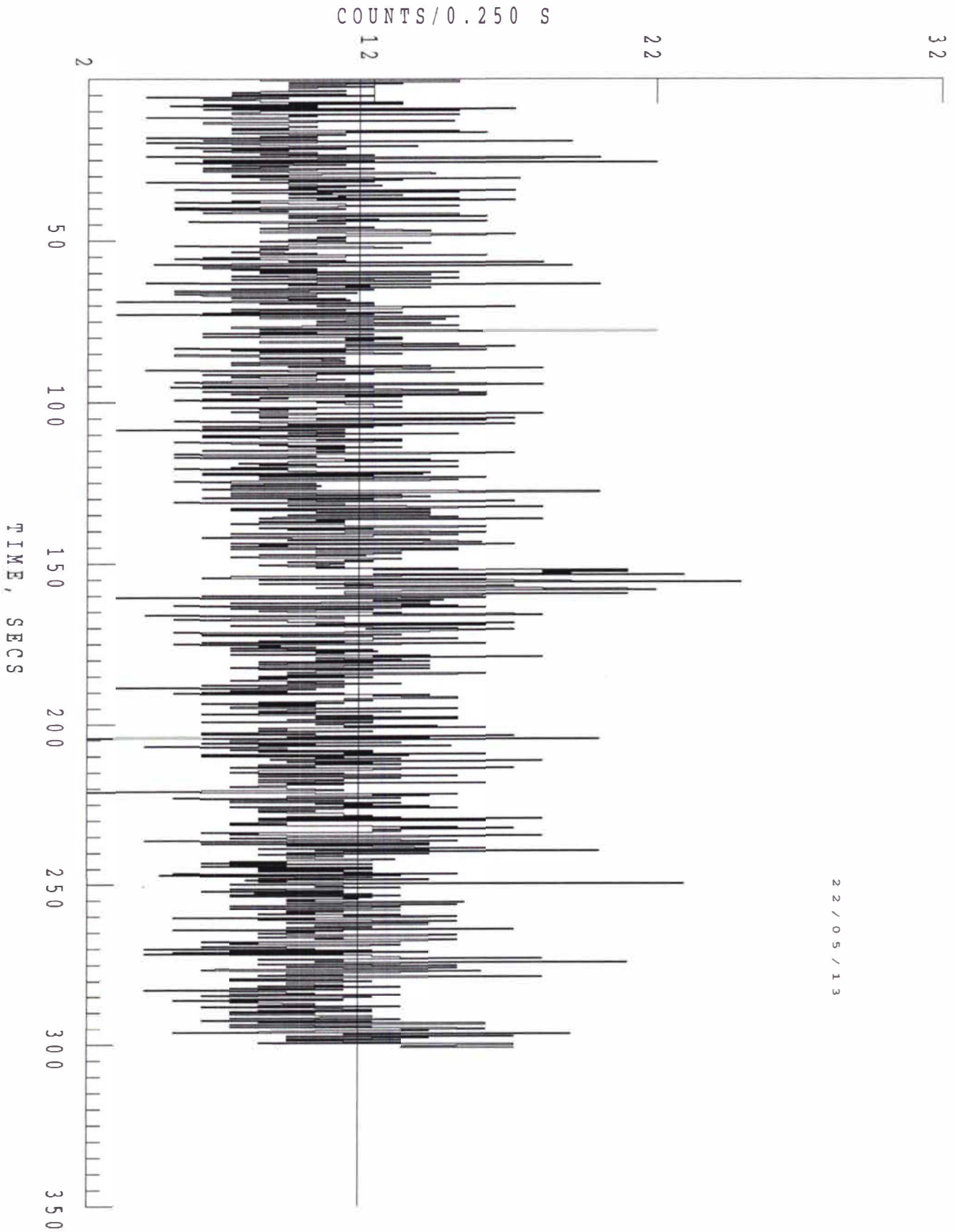


HESSI

21/05/13 76920.000 (SUZAKU_20130521_77071)

B

25- 150 keV



B

29/10/13

MESSENGER

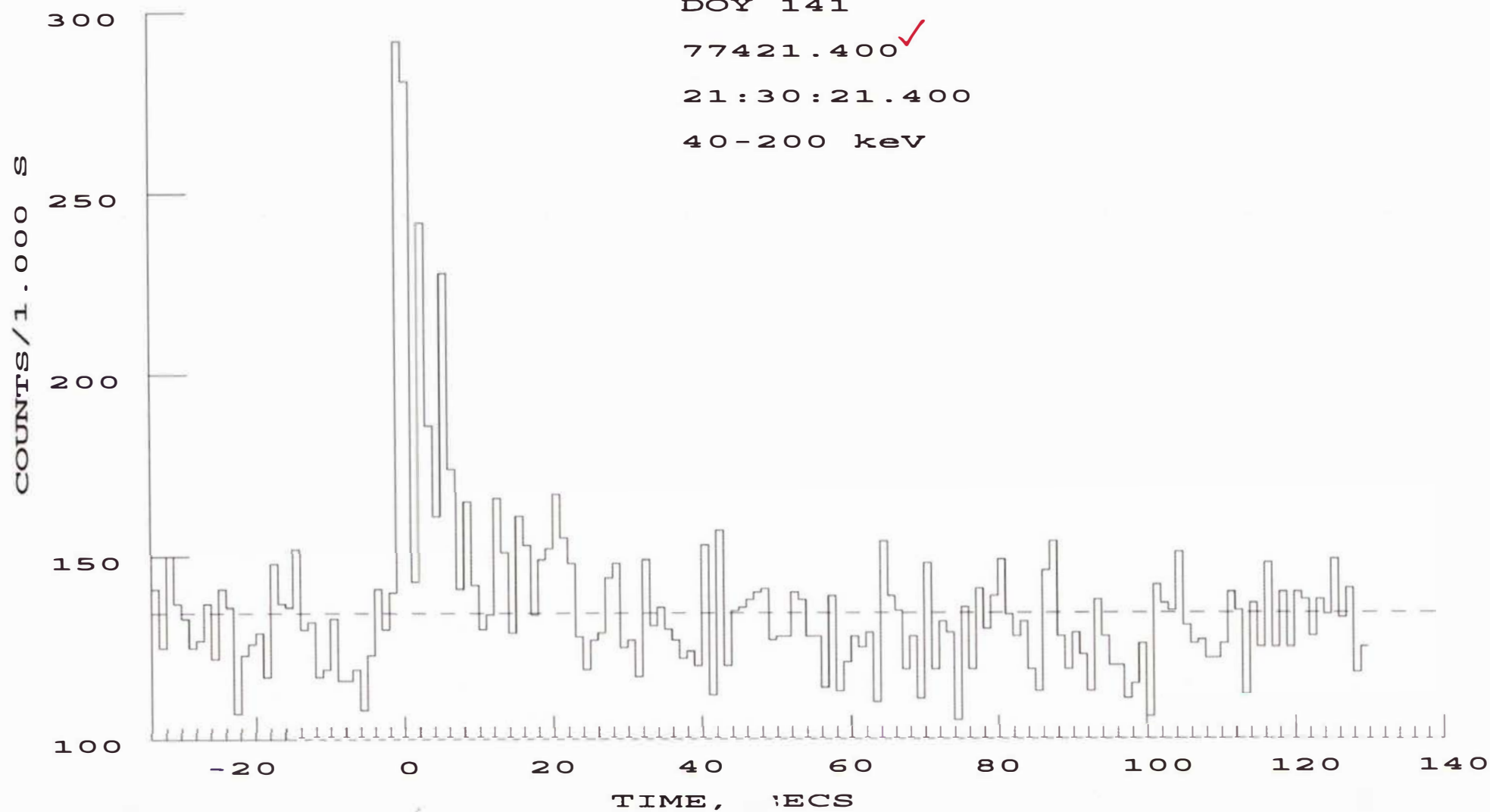
21/05/13

DOY 141

77421.400 ✓

21:30:21.400

40-200 keV



SUZAKU

21/05/13

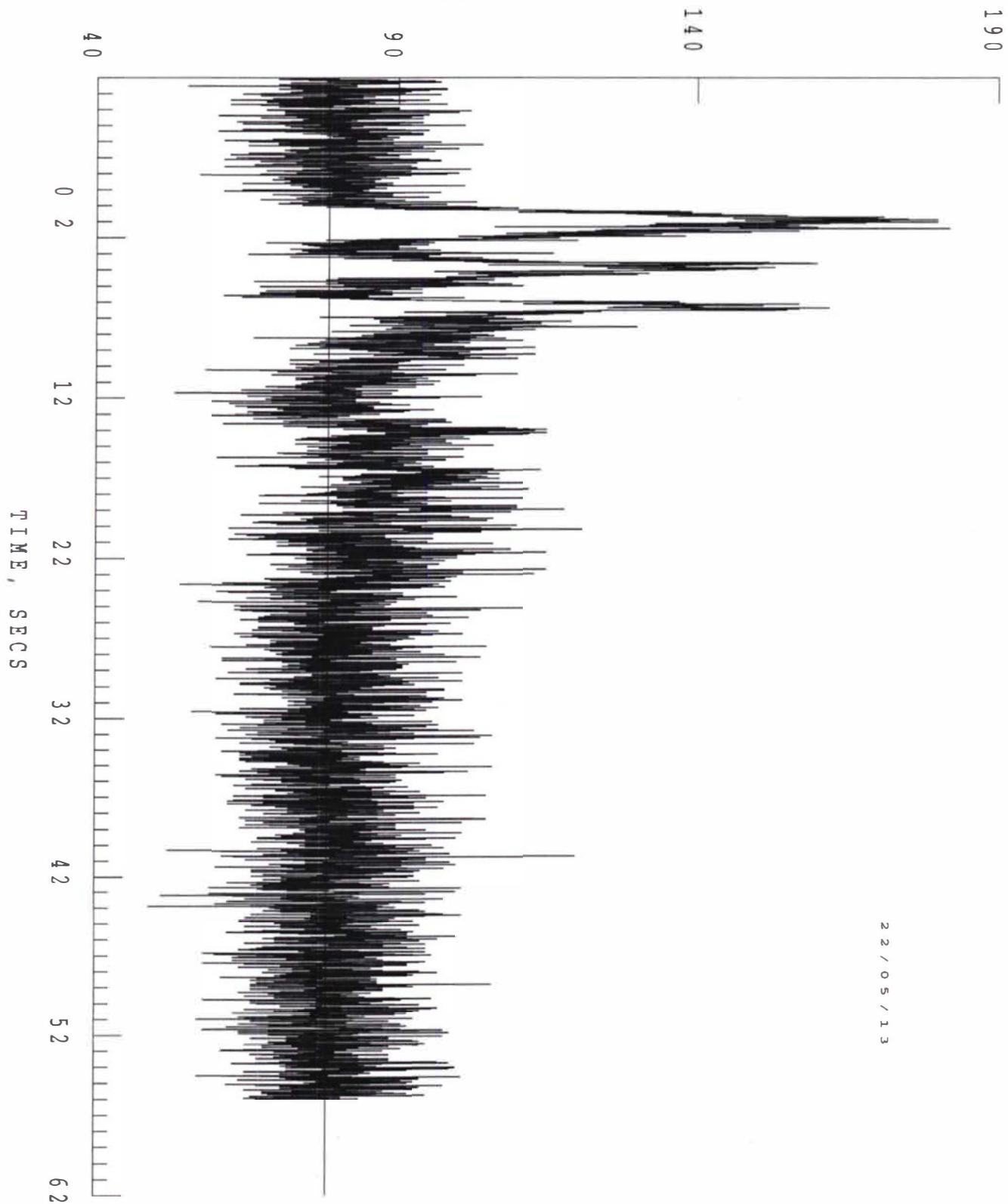
77071.600

21:24:31

B

50 - 240 keV

COUNTS/0.016 S



Subject: [Ipn] BAT lightcurve for trigger at 130521_2124

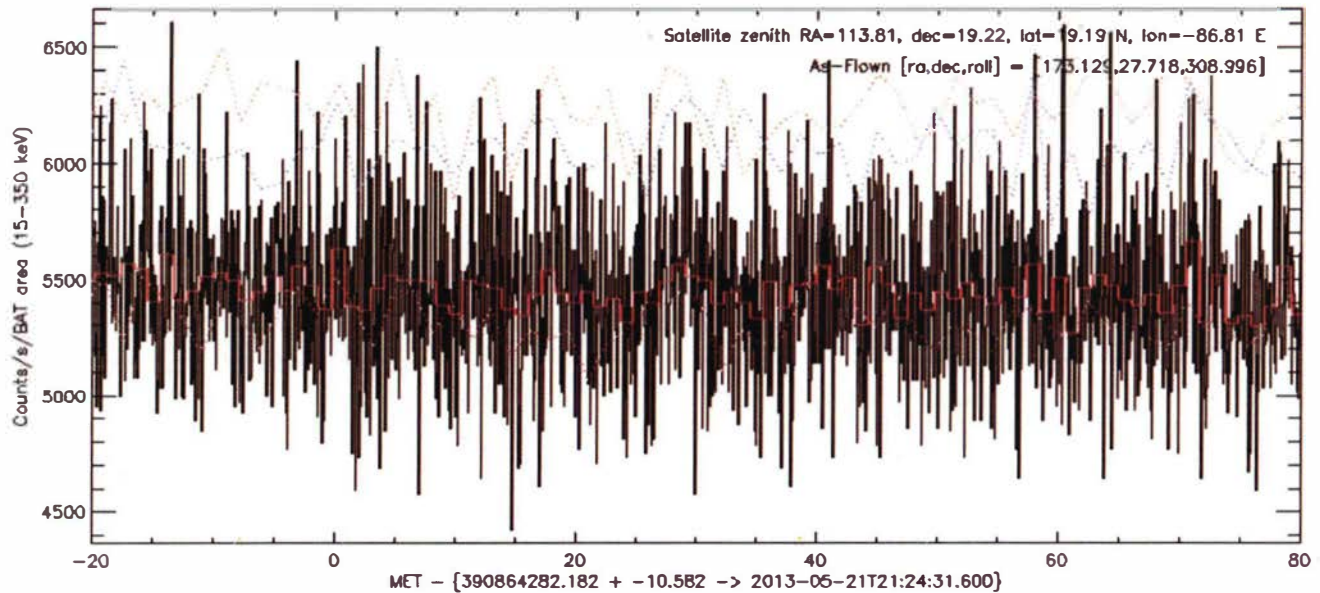
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/22/2013 4:58 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130521_2124.png



```
% /usr/local/bin/swinfo -o 390864282.182
Time(MET + UTC -> UT): 390864282.182 + -10.582 -> 2013-05-21T21:24:31.600
YYMMDD_SOD: 130521_77071.600 DOY=141
Swift Zenith(RA,dec): 113.81, 19.22
Swift Location(lon,lat,alt): -86.81 E, 19.19 N, 582 km
Obs Sequence Number: 00554620067
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-21 21:18:51 - 21:43:48
Obs Pointing(ra,dec,roll): 173.129, 27.718, 309.00
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130521_2124.png	20.4 KB
/tmp/130521_2124_bat64ms_ipn	87.1 KB

From vxw@capella2.gsfc.nasa.gov Tue May 21 15:53:22 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Tue, 21 May 2013 18:53:21 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Tue 21 May 13 22:53:18 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 556344, Seg_Num: 0
GRB_RA: 87.559d {+05h 50m 14s} (J2000),
87.750d {+05h 51m 00s} (current),
86.847d {+05h 47m 23s} (1950)
GRB_DEC: +14.452d {+14d 27' 09"} (J2000),
+14.455d {+14d 27' 20"} (current),
+14.439d {+14d 26' 20"} (1950)
GRB_DATE: 16433 TJD; 141 DOY; 13/05/21
GRB_TIME: 82156.77 SOD {22:49:16.77} UT
TRIGGER_INDEX: 139
GRB_PHI: -82.70 [deg]
GRB_THETA: 22.95 [deg]
DELTA_TIME: 64.00 [sec]
TRIGGER_DUR: 1.024 [sec]
SOLN_STATUS: 0x2003
RATE_SIGNIF: 24.51 [sigma]
MAGE_SIGNIF: 12.11 [sigma]
C_URL: sw00556344000msb.lc
SUN_POSTN: 58.90d {+03h 55m 35s} +20.36d {+20d 21' 51"}
SUN_DIST: 28.12 [deg] Sun_angle= -1.9 [hr] (East of Sun)
MOON_POSTN: 194.69d {+12h 58m 46s} -9.04d {-09d 02' 21"}
MOON_DIST: 108.54 [deg]
MOON_ILLUM: 86 [%]
GAL_COORDS: 193.00, -6.52 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS: 87.61, -8.97 [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: There is a bright star (mag=5.52) 9.50 arcmin from this positio
COMMENTS: This is a GRB.
COMMENTS: This trigger occurred at longitude,latitude = 209.35,9.39 [deg]

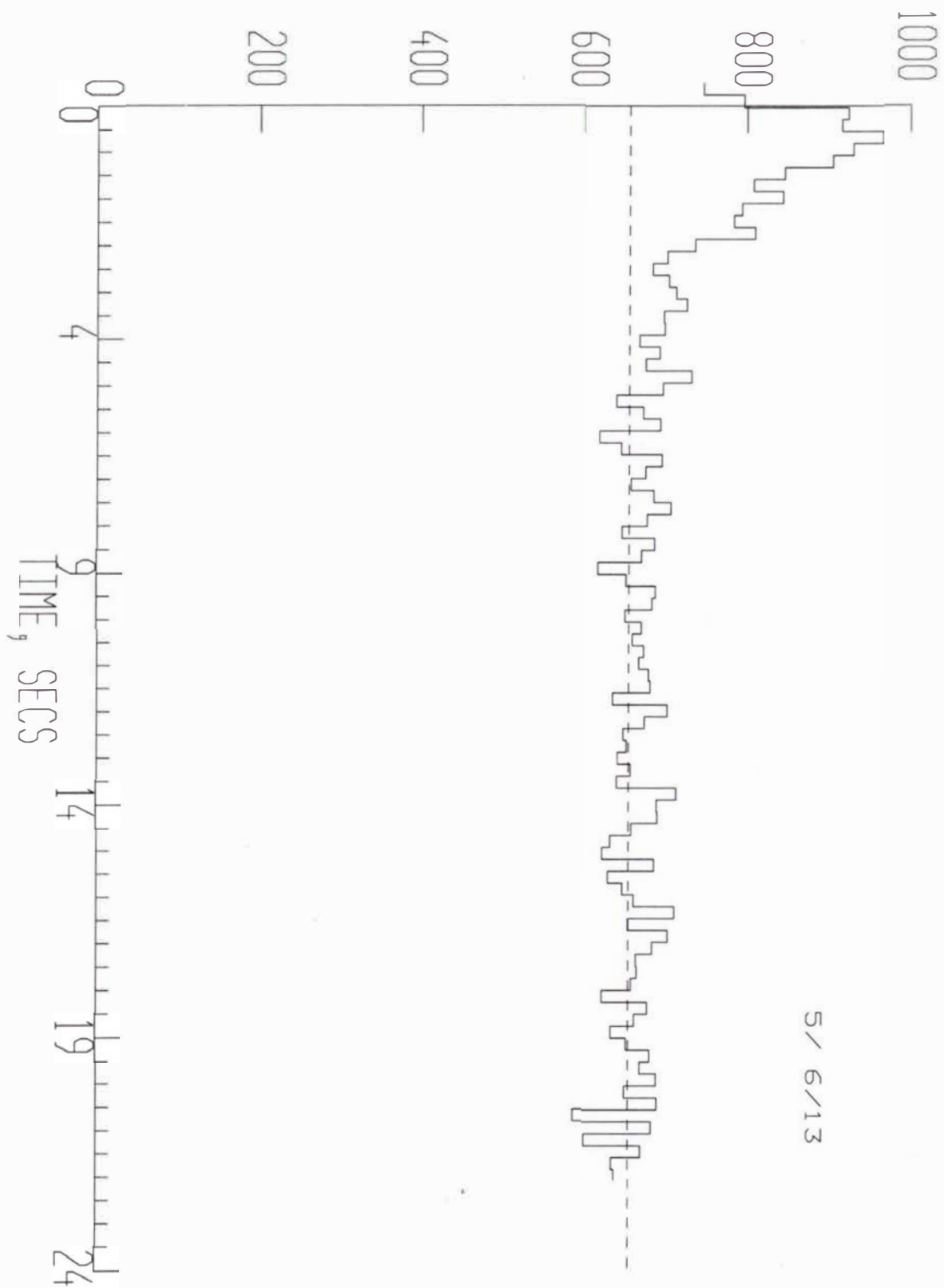
11 s

$4.2 \times 10^{-7} \text{ erg cm}^{-2}$

SWIFT 21/05/13 82156.778

25- 100 keV

COUNTS/0.256 S



5 / 6 / 13

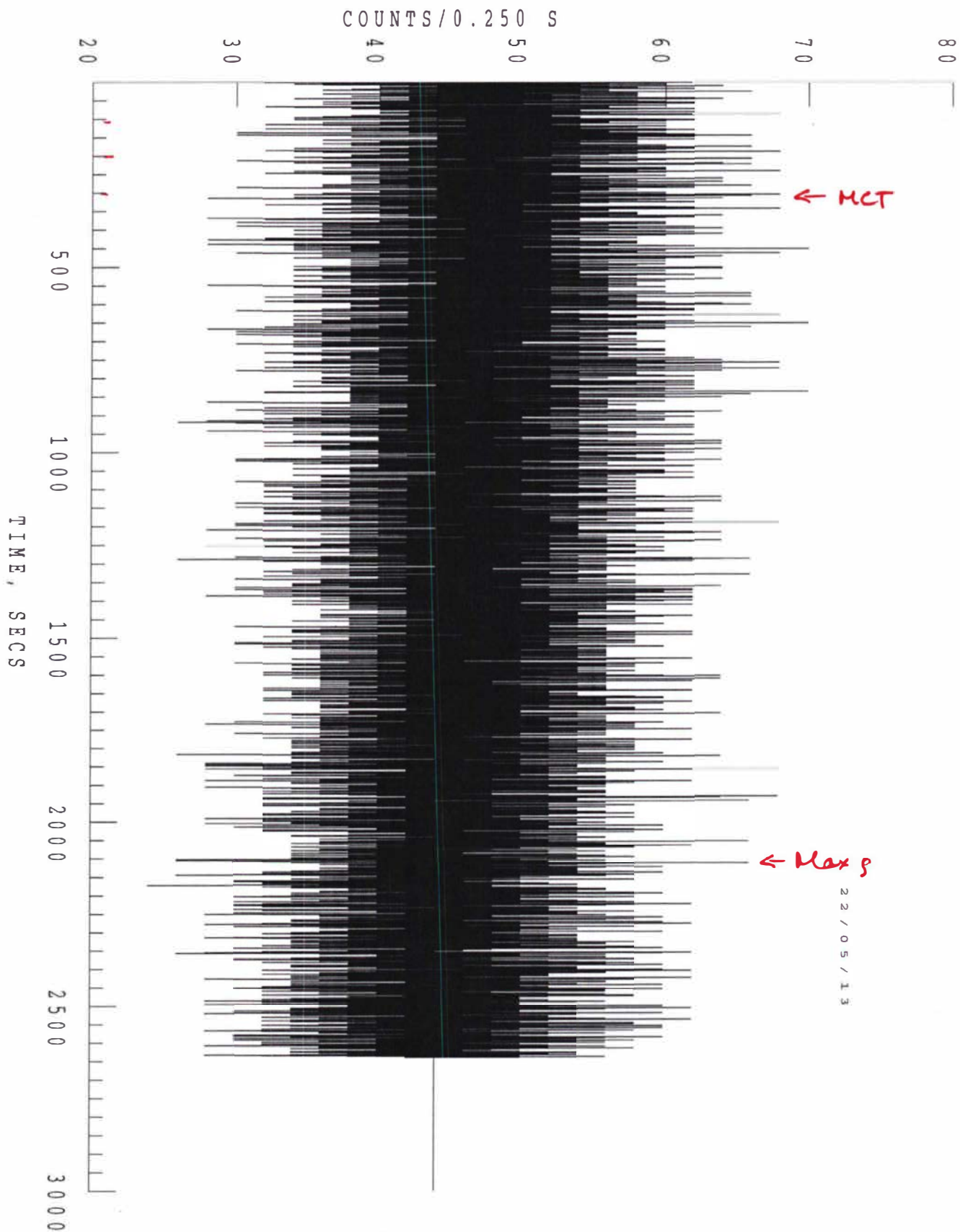
MS01

21/05/13

80839.861

C

50 - 3000 keV



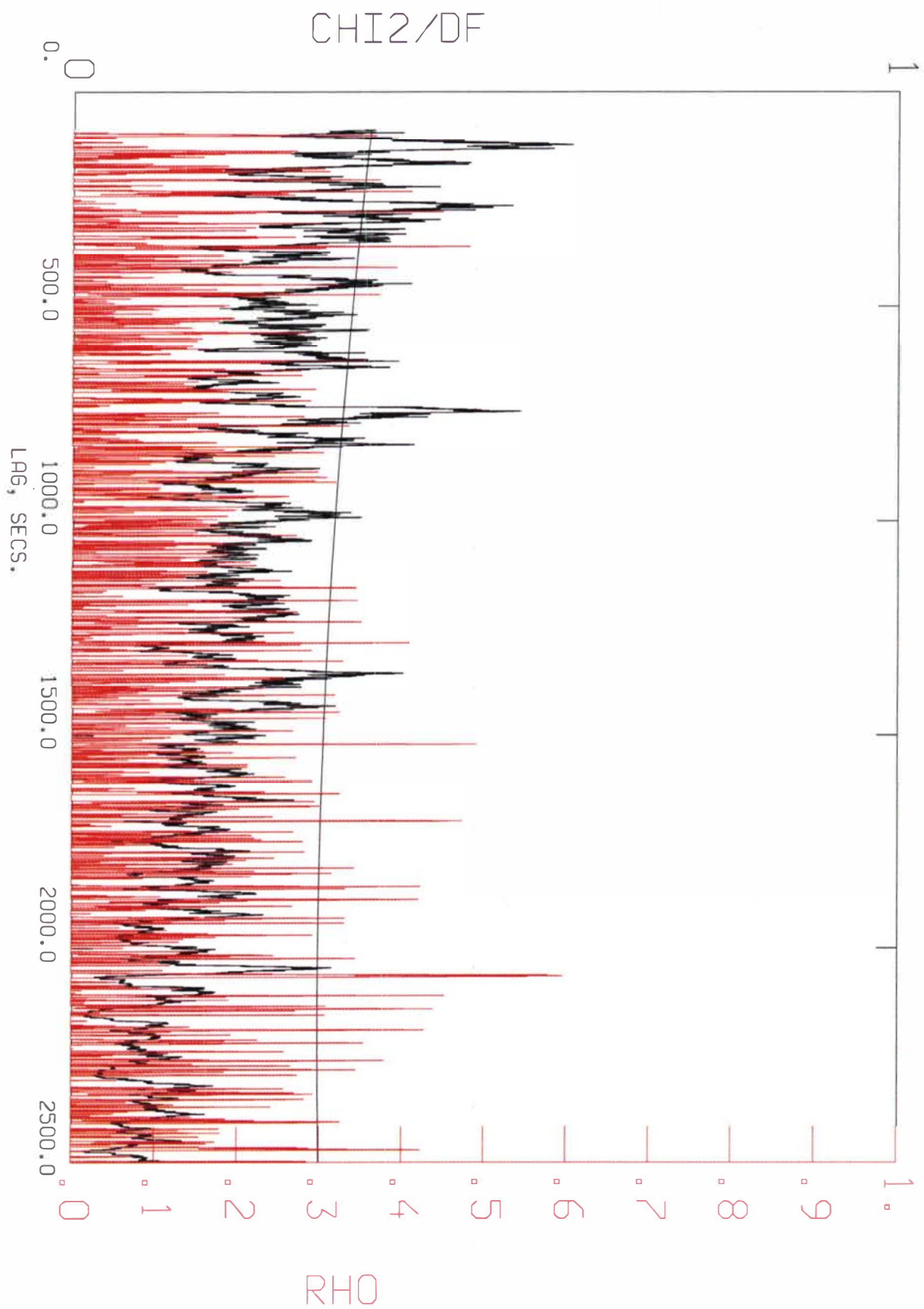
J

SWIFT/BAT -MS01 HEND CORRELATION

21/05/13

82156.778

29/10/13



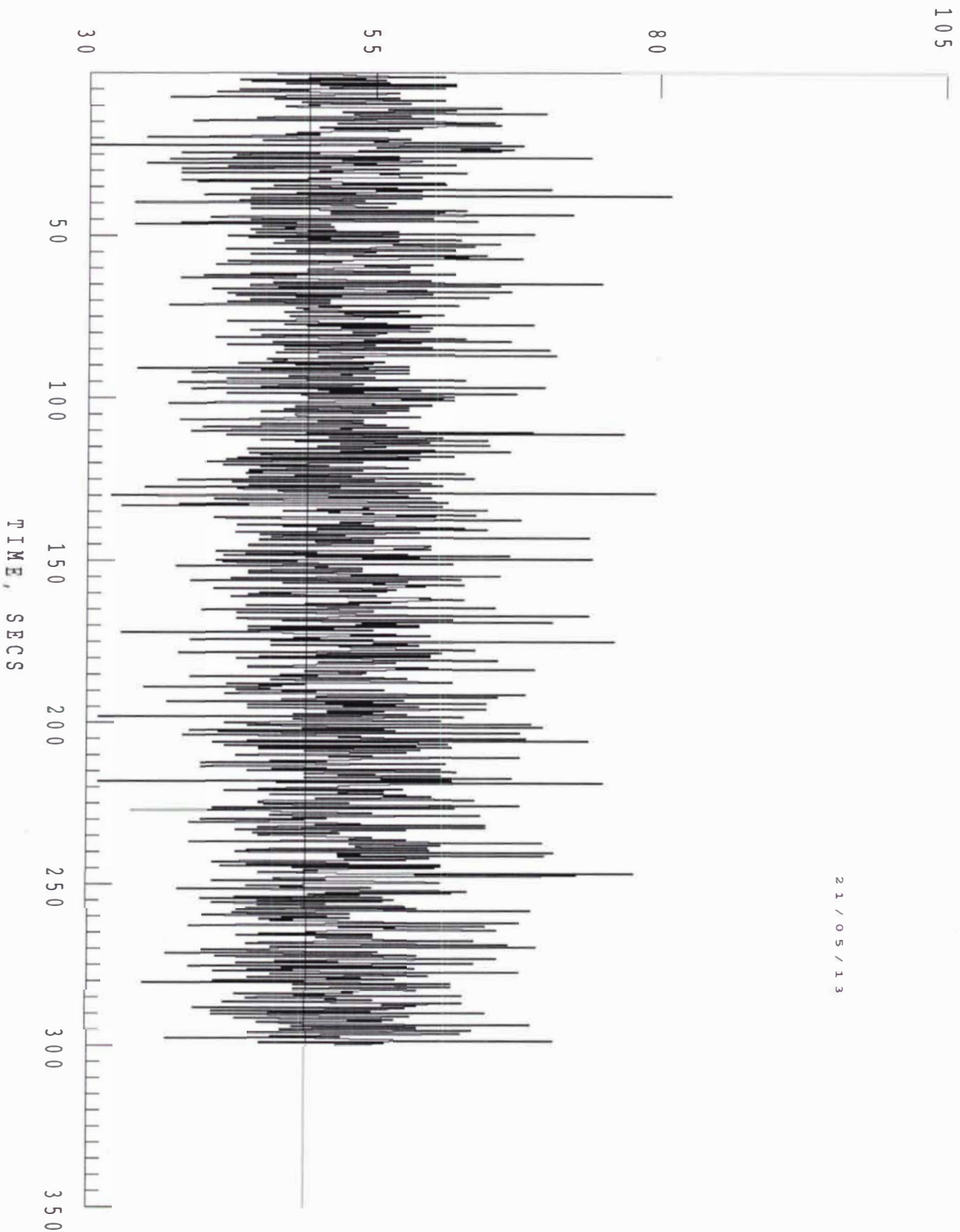
HESSI

21/05/13 82006.000 (SWIFT_20130521_82156)

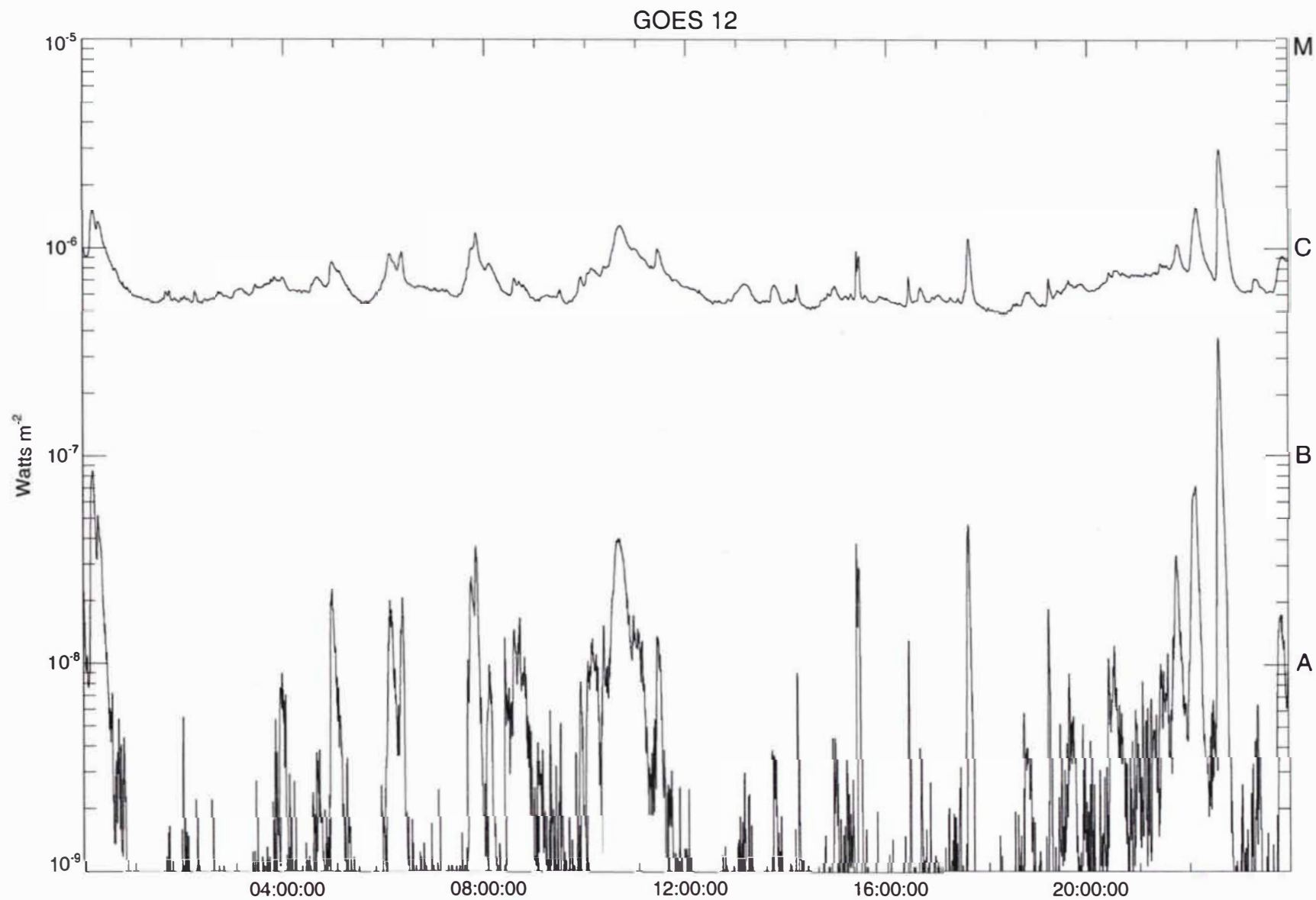
25- 150 keV

C

COUNTS/0.250 S



21/05/13



Data Start: 13/05/21, 0000:12

Plot created: 13/05/24, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

GLAST

22/05/13

44071.135

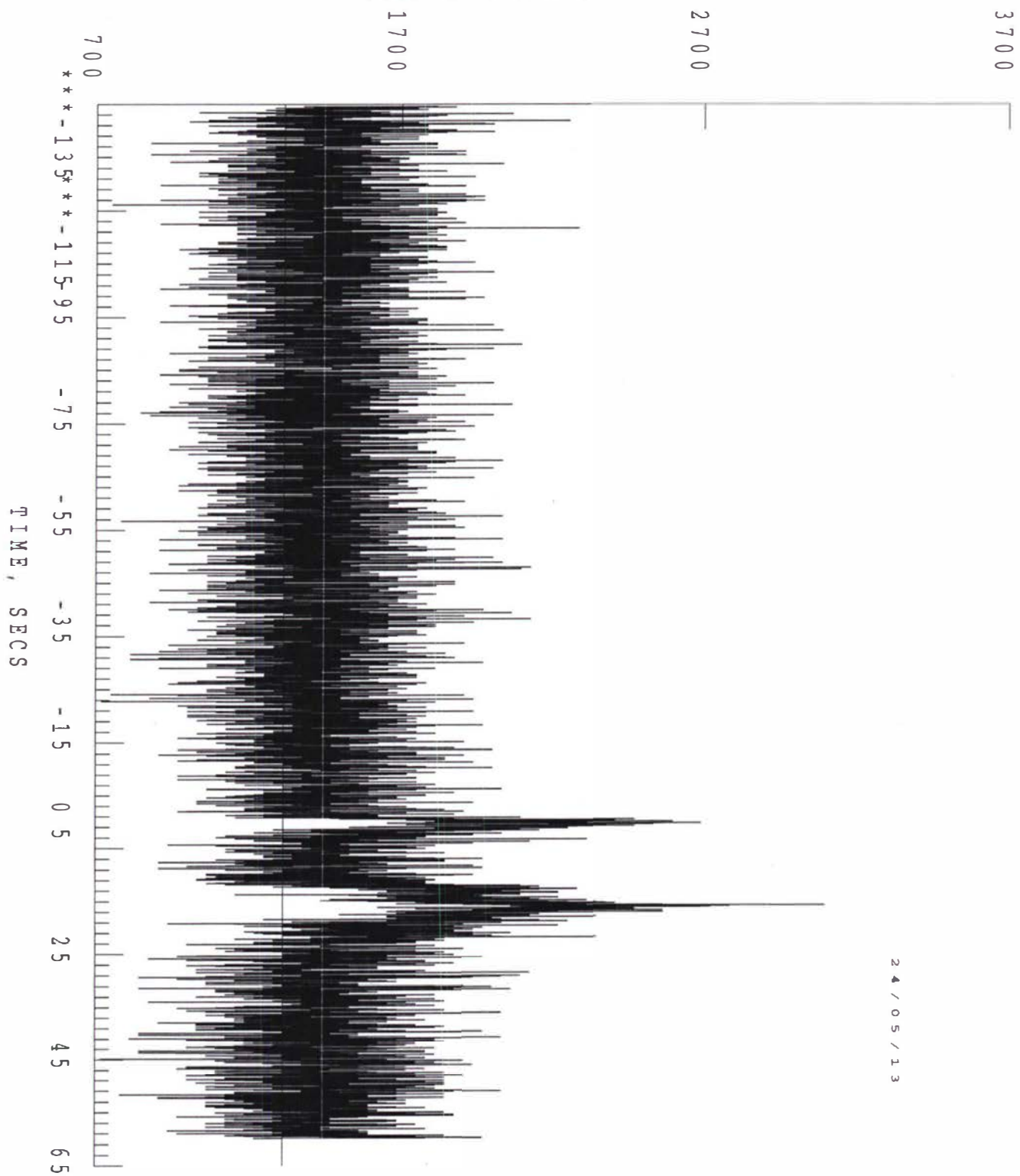
12:14:31

A

26 - 293 keV

134.15 17.62 4.9

COUNTS/0.032 S



MS01

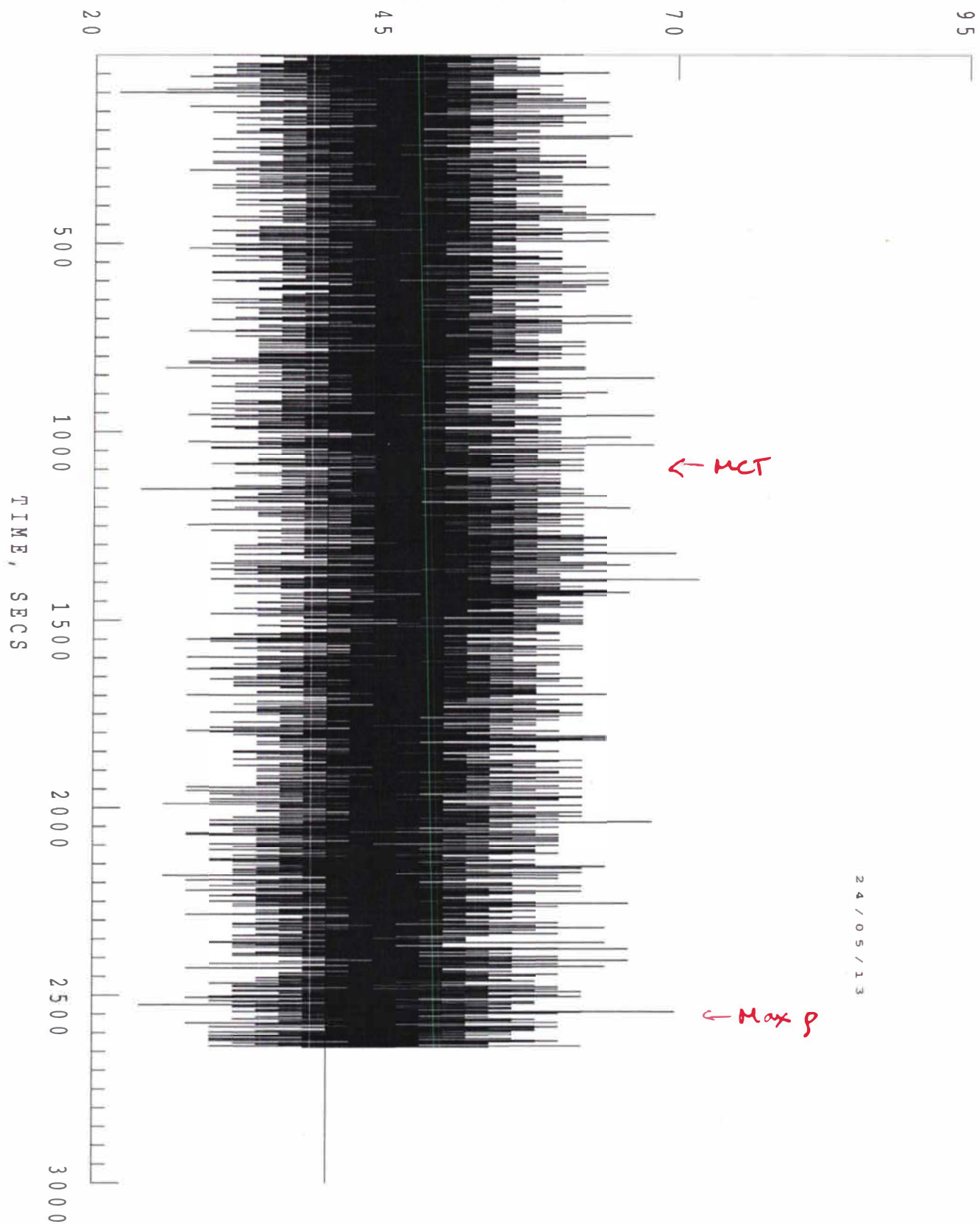
22/05/13

42739.060

A

50 - 3000 keV

COUNTS/0.250 S



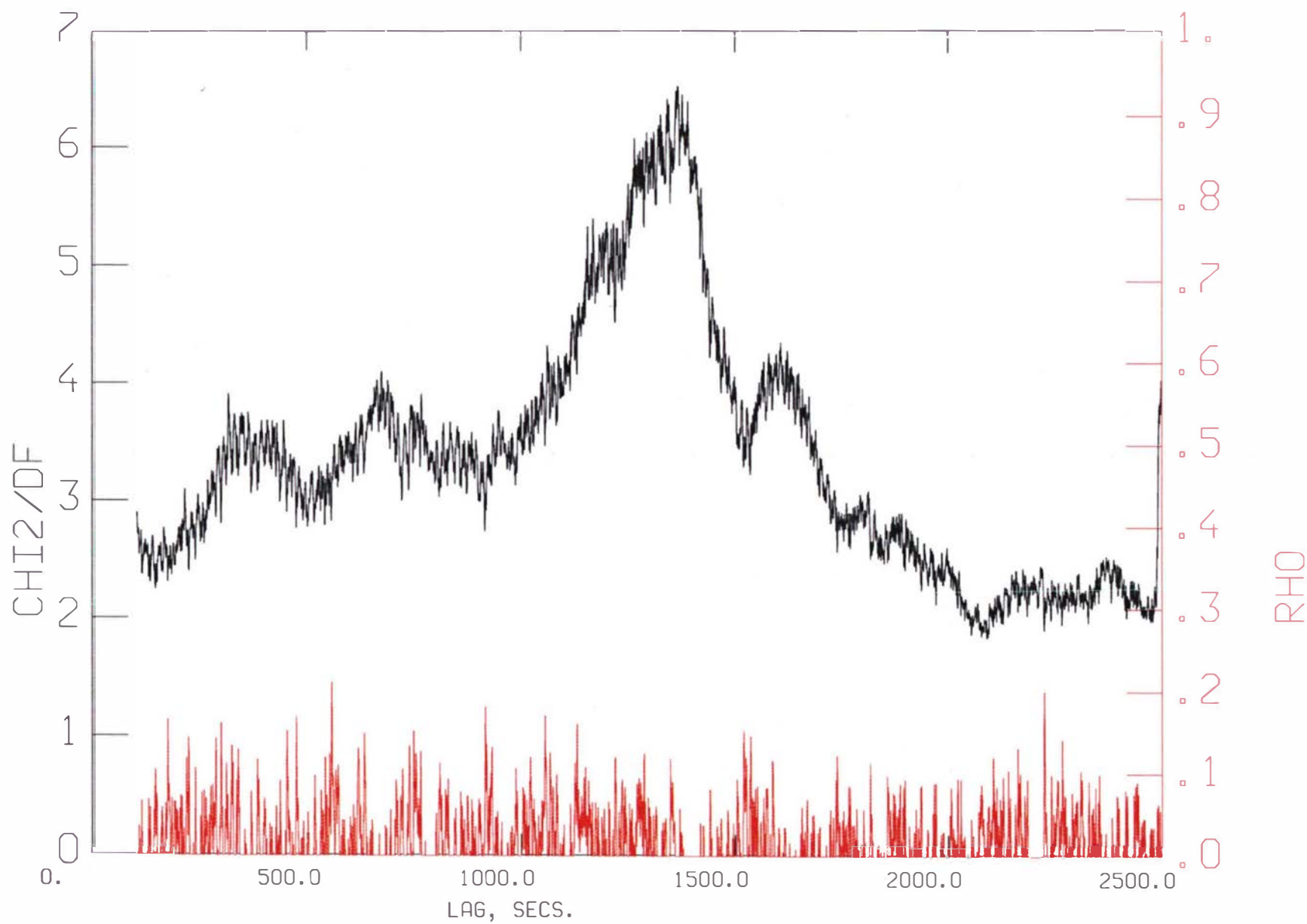
A

GLAST GBM -MS01 HEND CORRELATION

22/05/13

44071.135

29/10/13



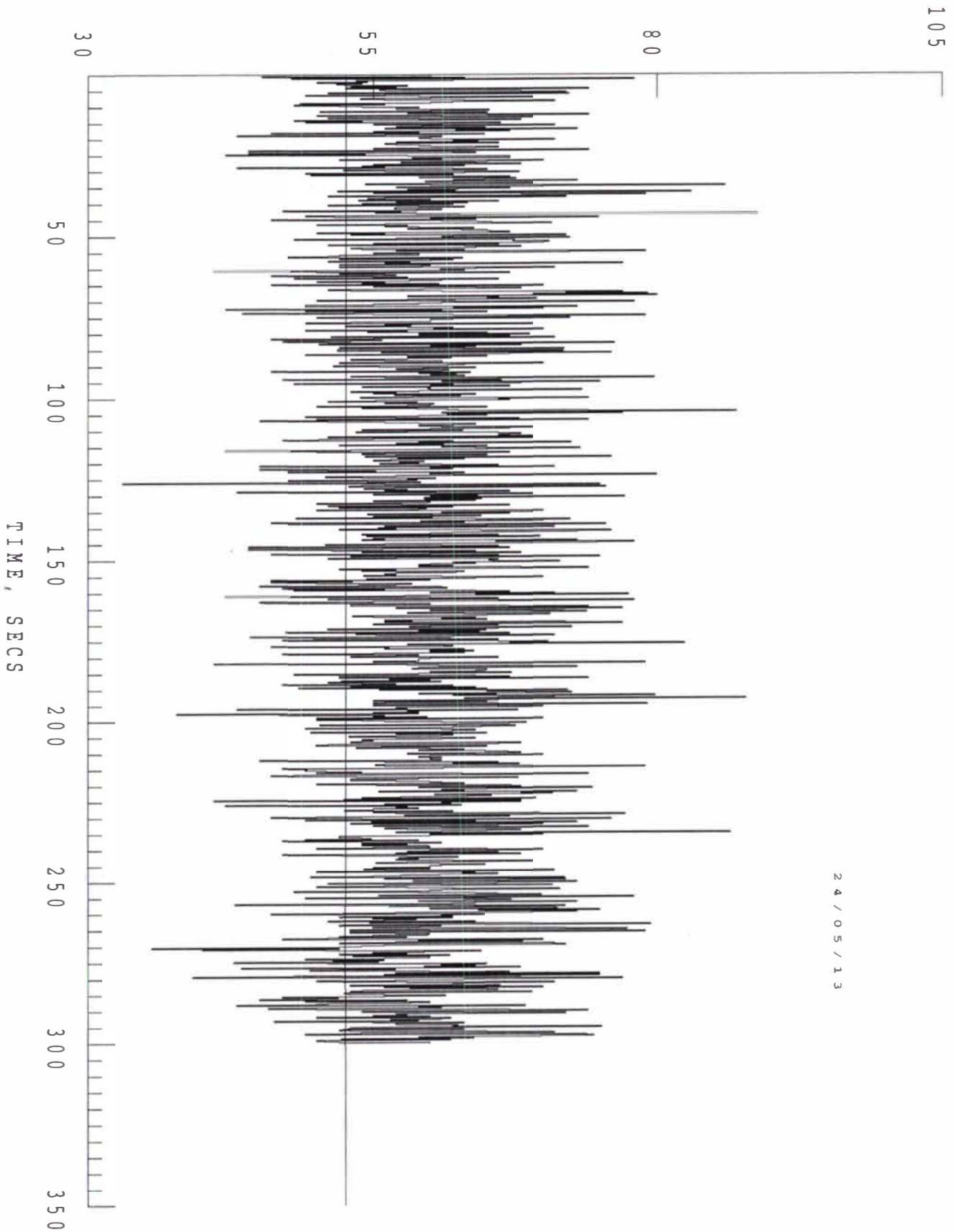
HESSI

22/05/13 43921.000 (GLAST_20130522_44071)

A

25- 150 keV

COUNTS/0.250 S



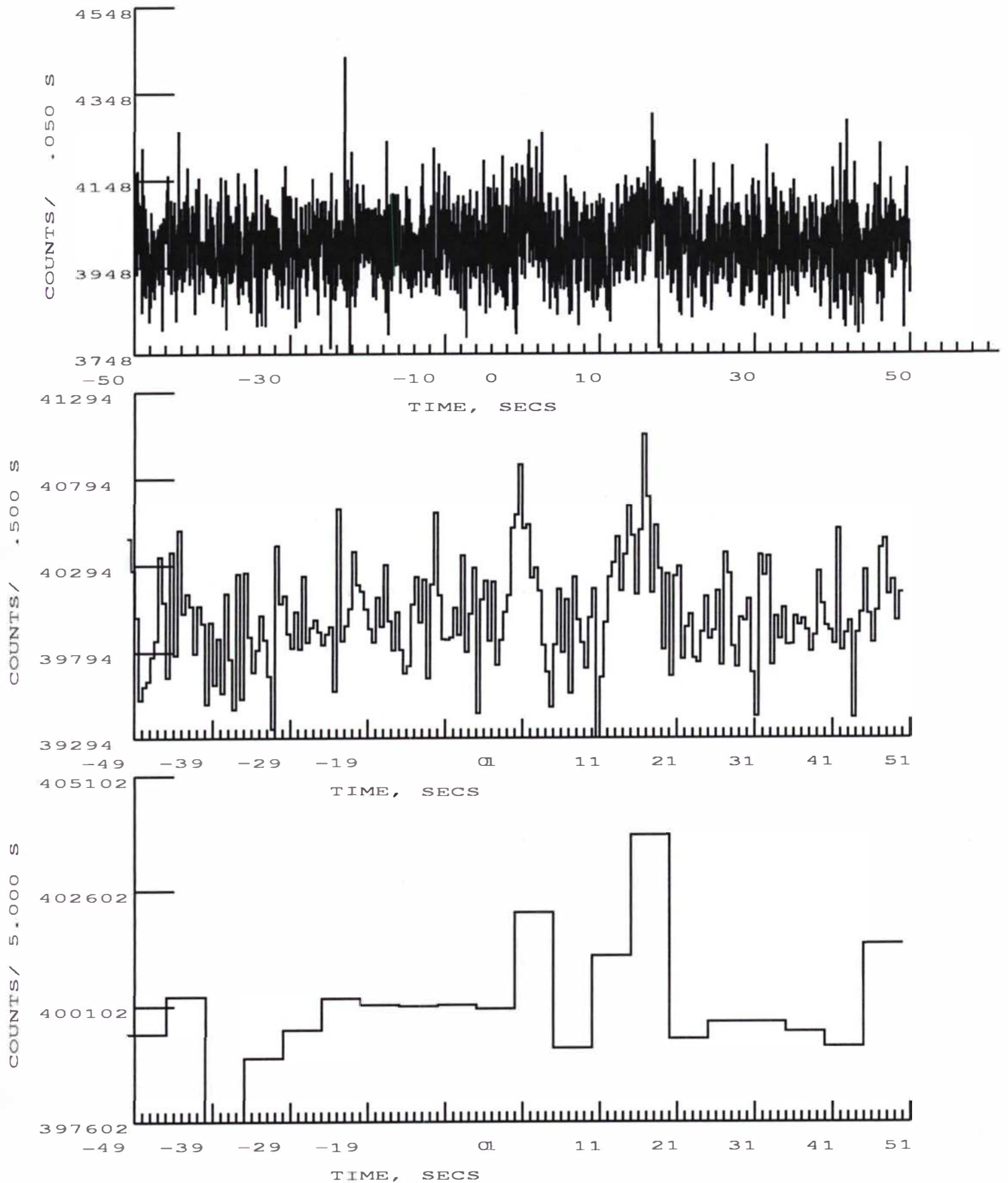
INTEGRAL

22/05/13

44071.000

12:14:31.0

29/10/13



Subject: [lpn] BAT lightcurve for trigger at 130522_1214

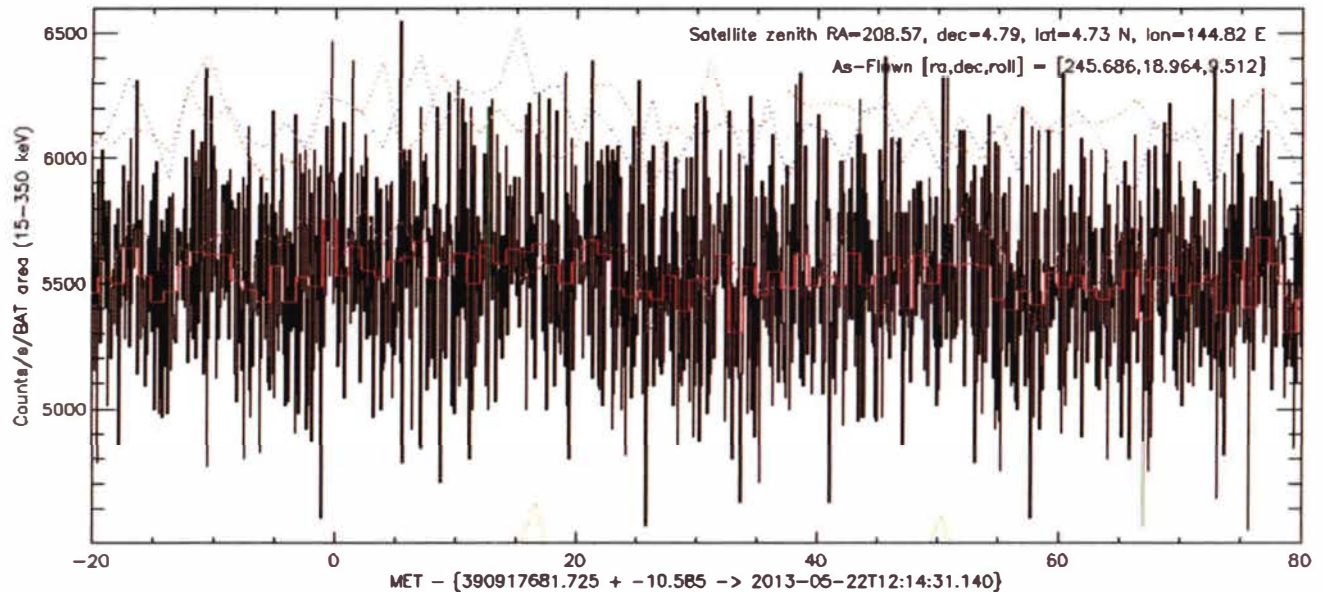
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/22/2013 2:20 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130522_1214.png



```
% /usr/local/bin/swinfo -o 390917681.725
Time(MET + UTC -> UT): 390917681.725 + -10.585 -> 2013-05-22T12:14:31.140
YYMMDD_SOD: 130522_44071.140 DOY=142
Swift Zenith(RA,dec): 208.57, 4.79
Swift Location(lon,lat,alt): 144.82 E, 4.73 N, 576 km
Obs Sequence Number: 00032823002
Obs Target Name: iPTF13asv
Obs Date and Times: 2013-05-22 12:10:51 - 12:34:50
Obs Pointing(ra,dec,roll): 245.686, 18.964, 9.51
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/130522_1214_bat64ms_ipn	87.0 KB
/tmp/130522_1214.png	20.1 KB

KONUS HRES 20130522 49716

TRIGGER TIME: 22/05/13 DOY 142 Julian 2456436.07542 UT = 13.810 13:48:36 (49716.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

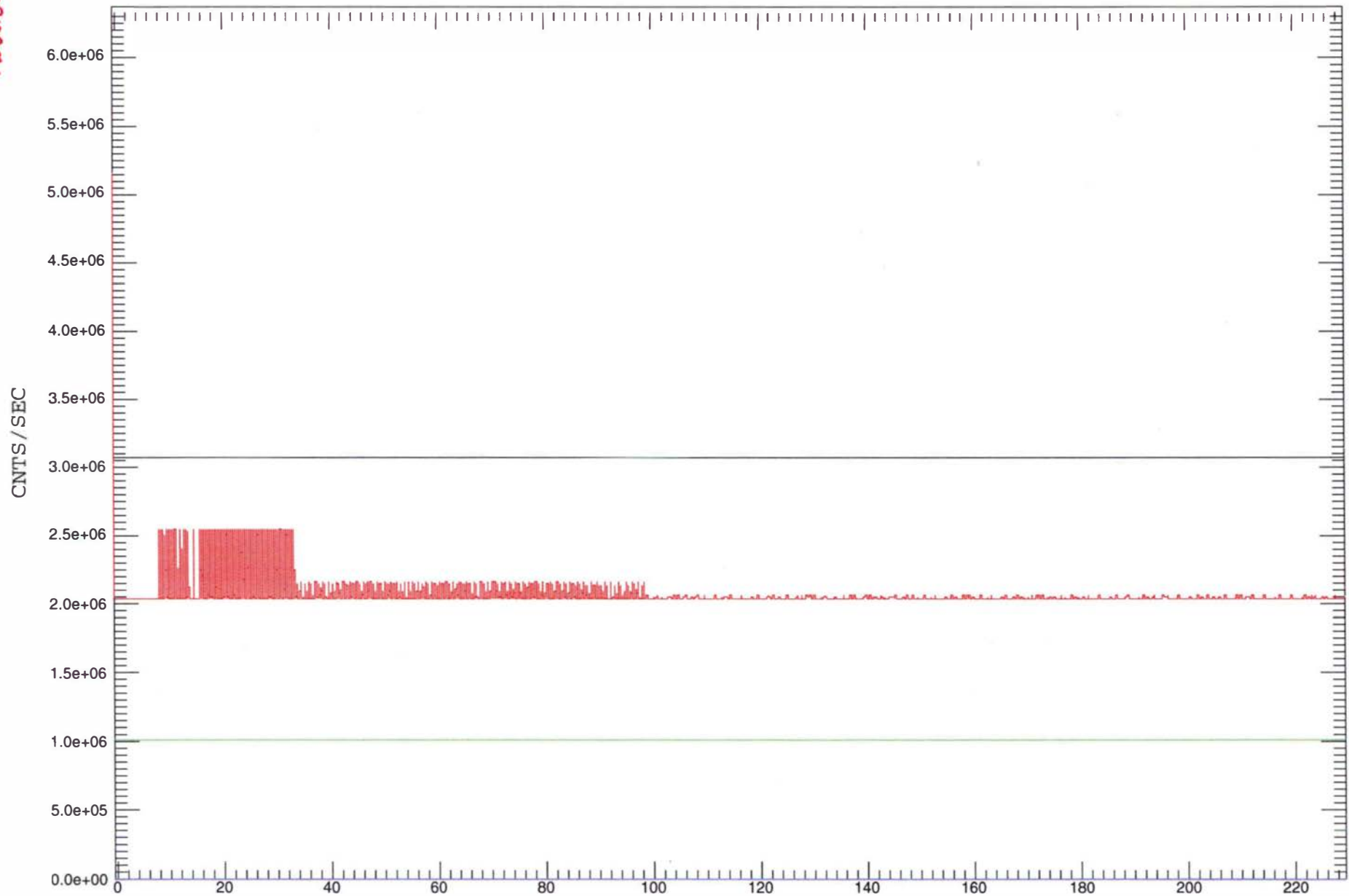
Chan 4 : [> 10 MeV]

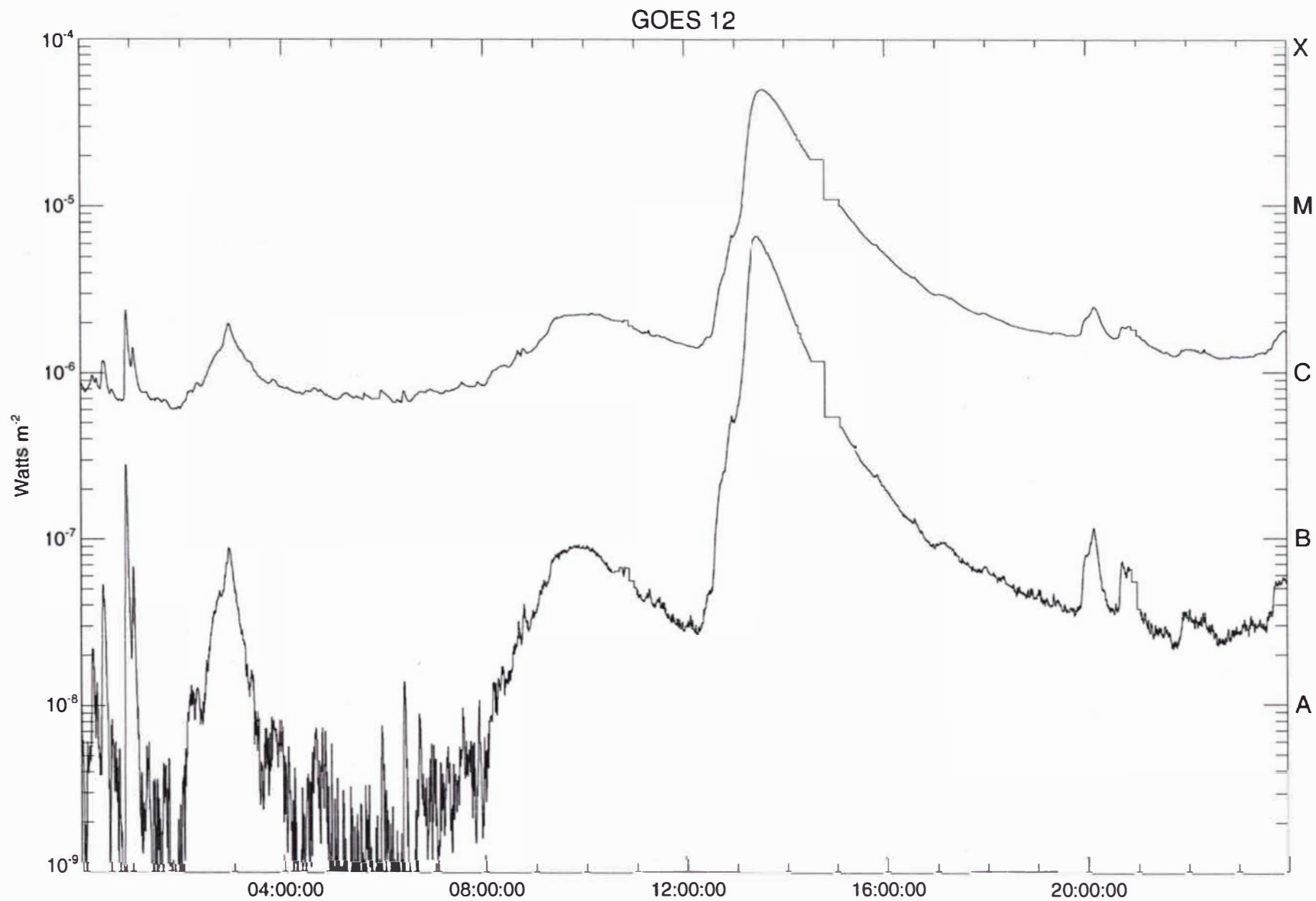
Channel 1 + 3057000

Channel 2 + 2038000

Channel 3 + 1019000

Channel 4 + 0





Data Start: 13/05/22, 0000:12

Plot created: 13/05/25, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

SUZAKU

23/05/13

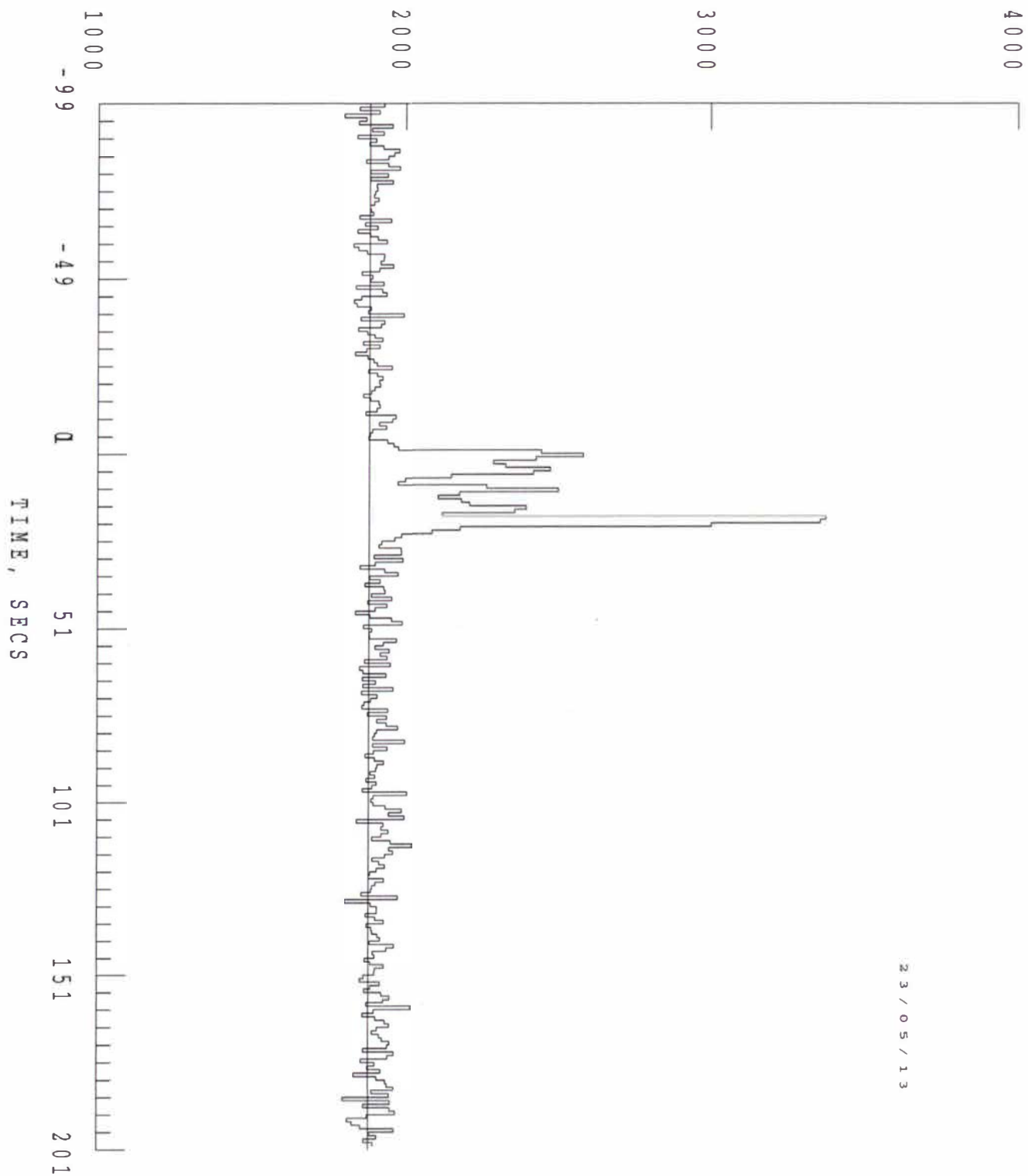
8167.584

+ Trigger at 8168.583

A

50 - 240 keV

COUNTS/1.000 S



23/05/13

MS01

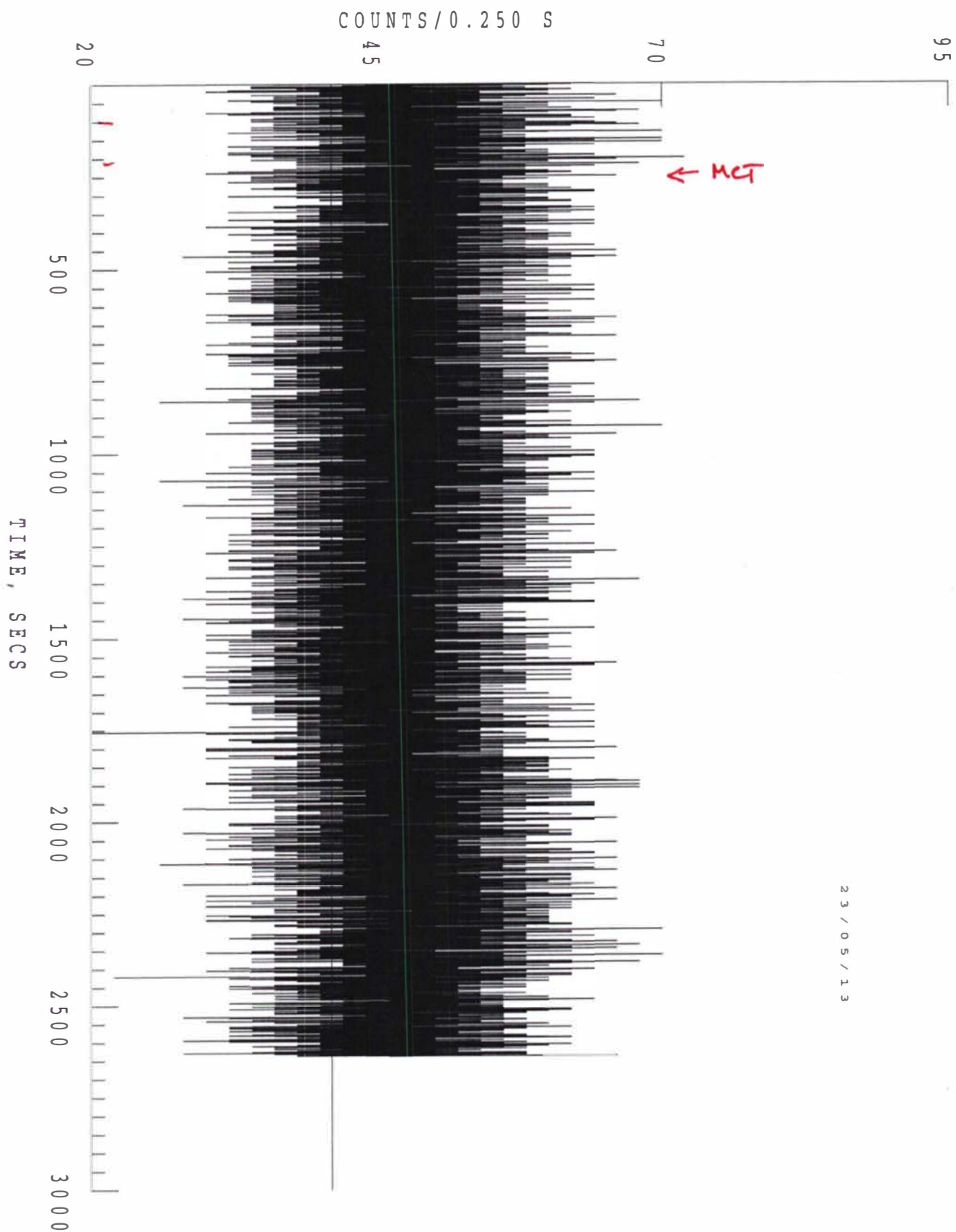
23/05/13

6858.216

A

50 - 3000 keV

Occulted



HESSI

23/05/13

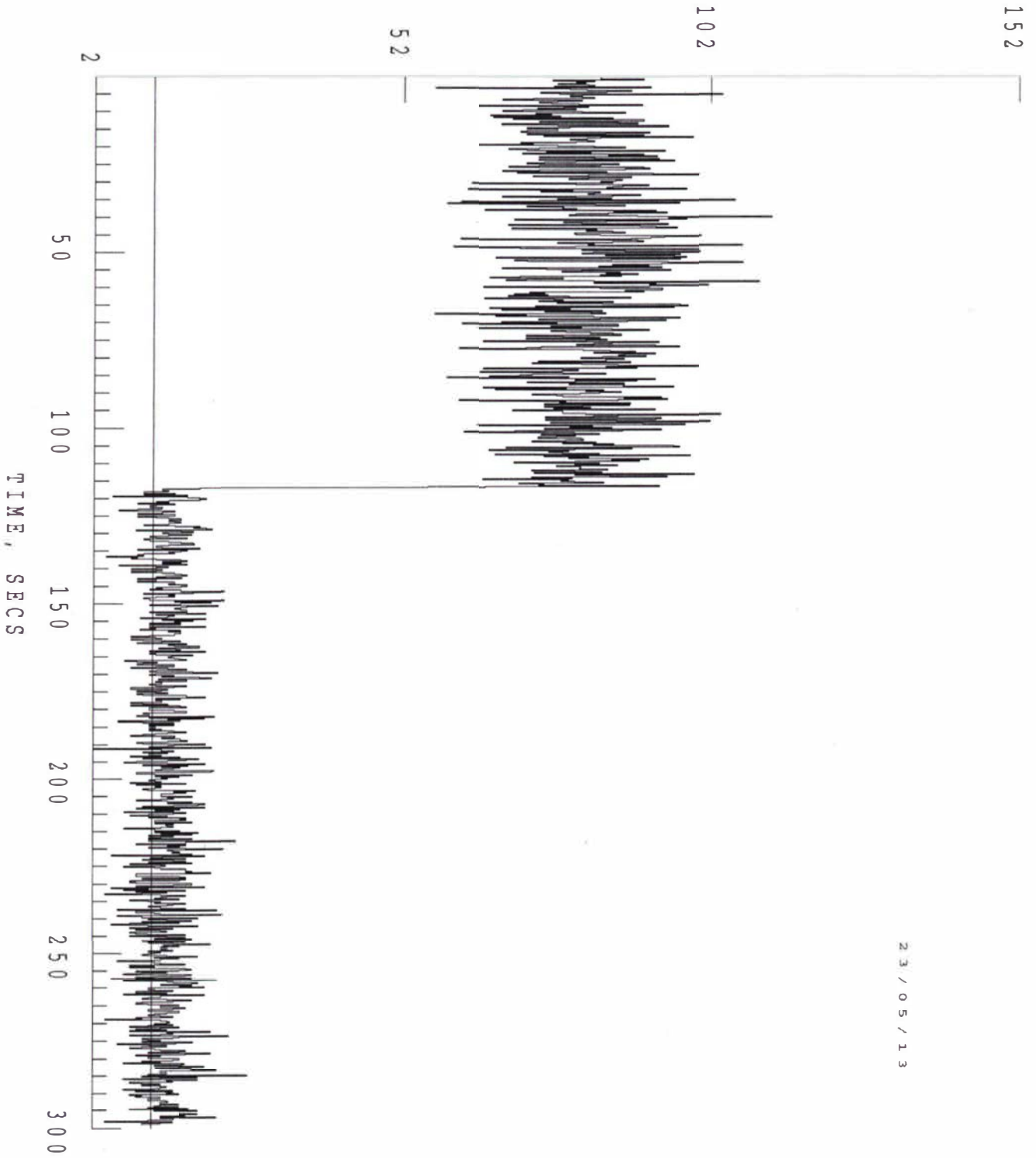
8017.000

(SUZAKU_20130523_08167)

A

25 - 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 130523_0216

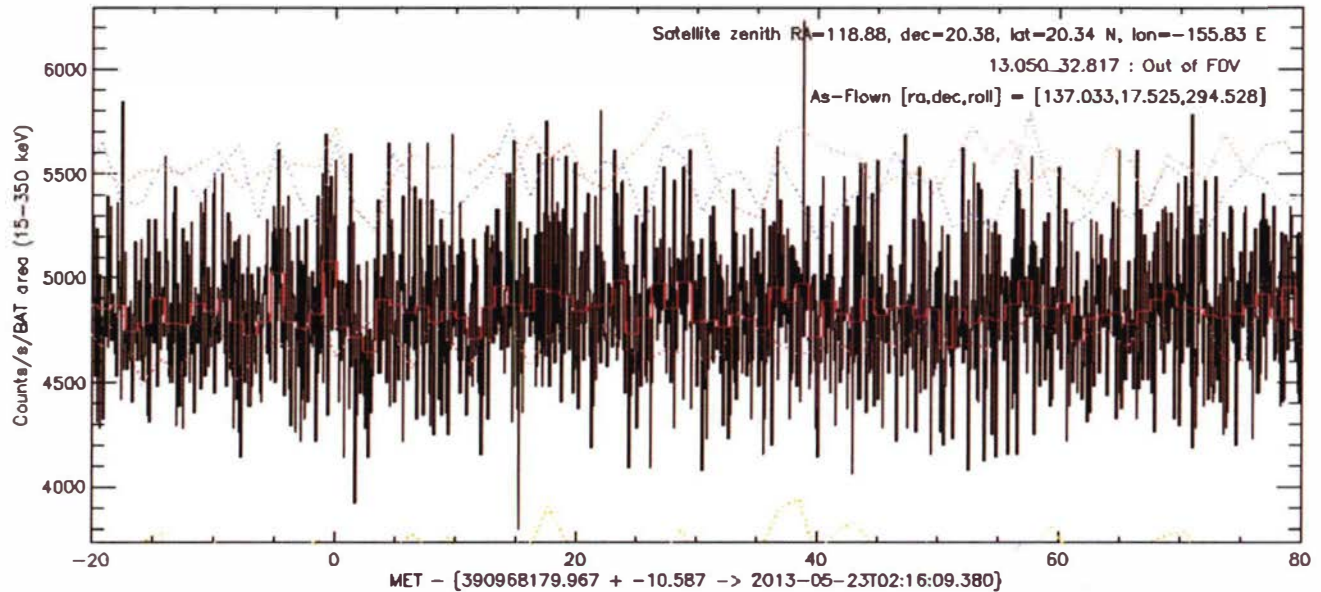
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/22/2013 11:27 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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/tmp/130523_0216.png



```
% /usr/local/bin/swinfo -o 390968179.967 -s 13.050_32.817
Time (MET + UTC -> UT): 390968179.967 + -10.587 -> 2013-05-23T02:16:09.380
YYMMDD_SOD: 130523_08169.380 DOY=143
Swift Zenith(RA,dec): 118.88, 20.38
Swift Location(lon,lat,alt): -155.83 E, 20.34 N, 582 km
Obs Sequence Number: 00555163016
Obs Target Name: GRB 130505A
Obs Date and Times: 2013-05-23 02:00:51 - 02:30:46
Obs Pointing(ra,dec,roll): 137.033, 17.525, 294.53
13.050_32.817_imageloc (boresight_dist, angle): (107, -71)
13.050_32.817_exposure (cm2 cos adjusted): 0
13.050_32.817_altitude: 22 (depressed but unattenuated)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130523_0216.png	19.4 KB
/tmp/130523_0216_bat64ms_ipn	87.0 KB

A

29/10/13

MESSENGER

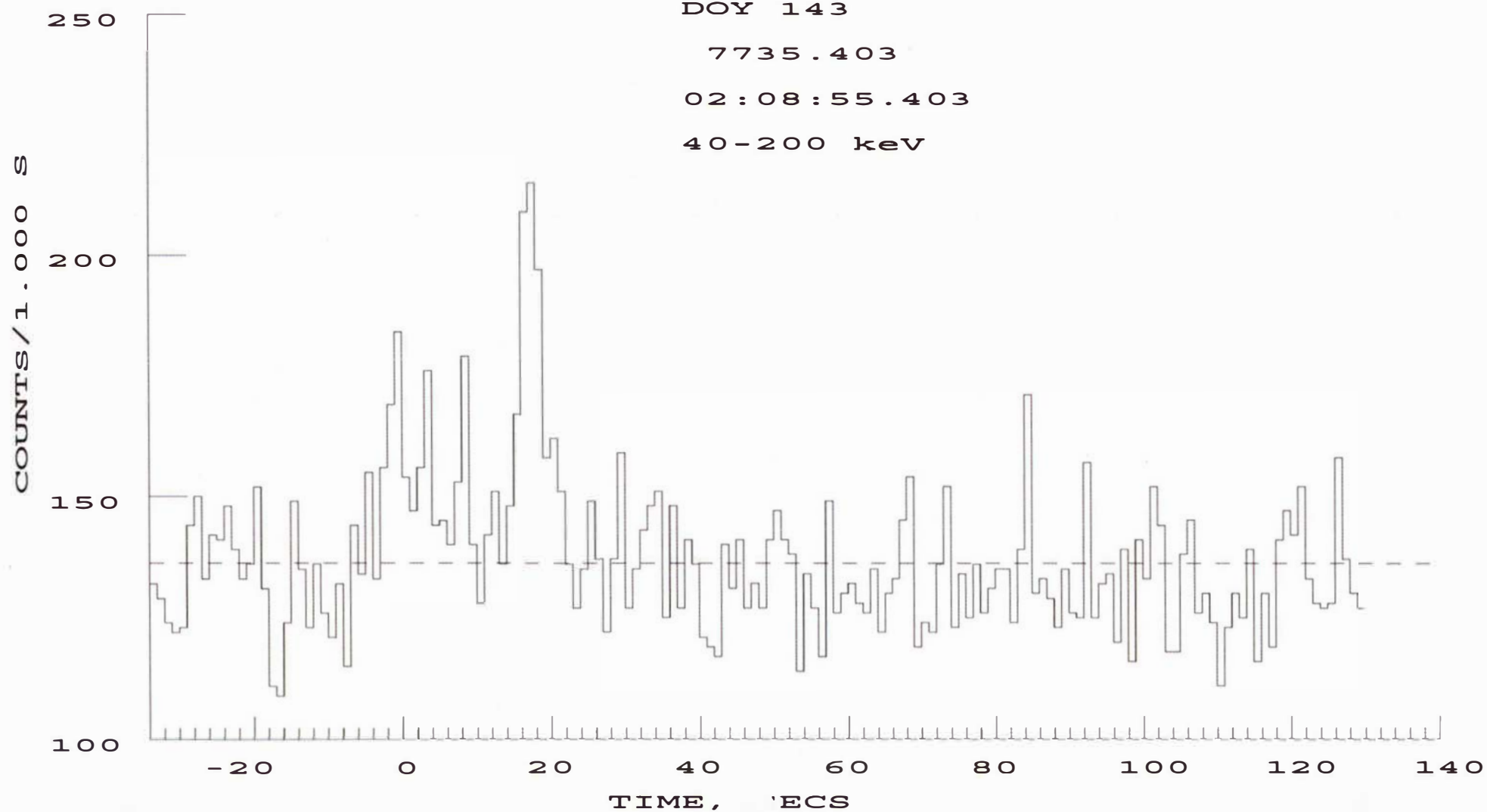
23/05/13

DOY 143

7735.403

02:08:55.403

40-200 keV



GLAST

23/05/13

8169.383

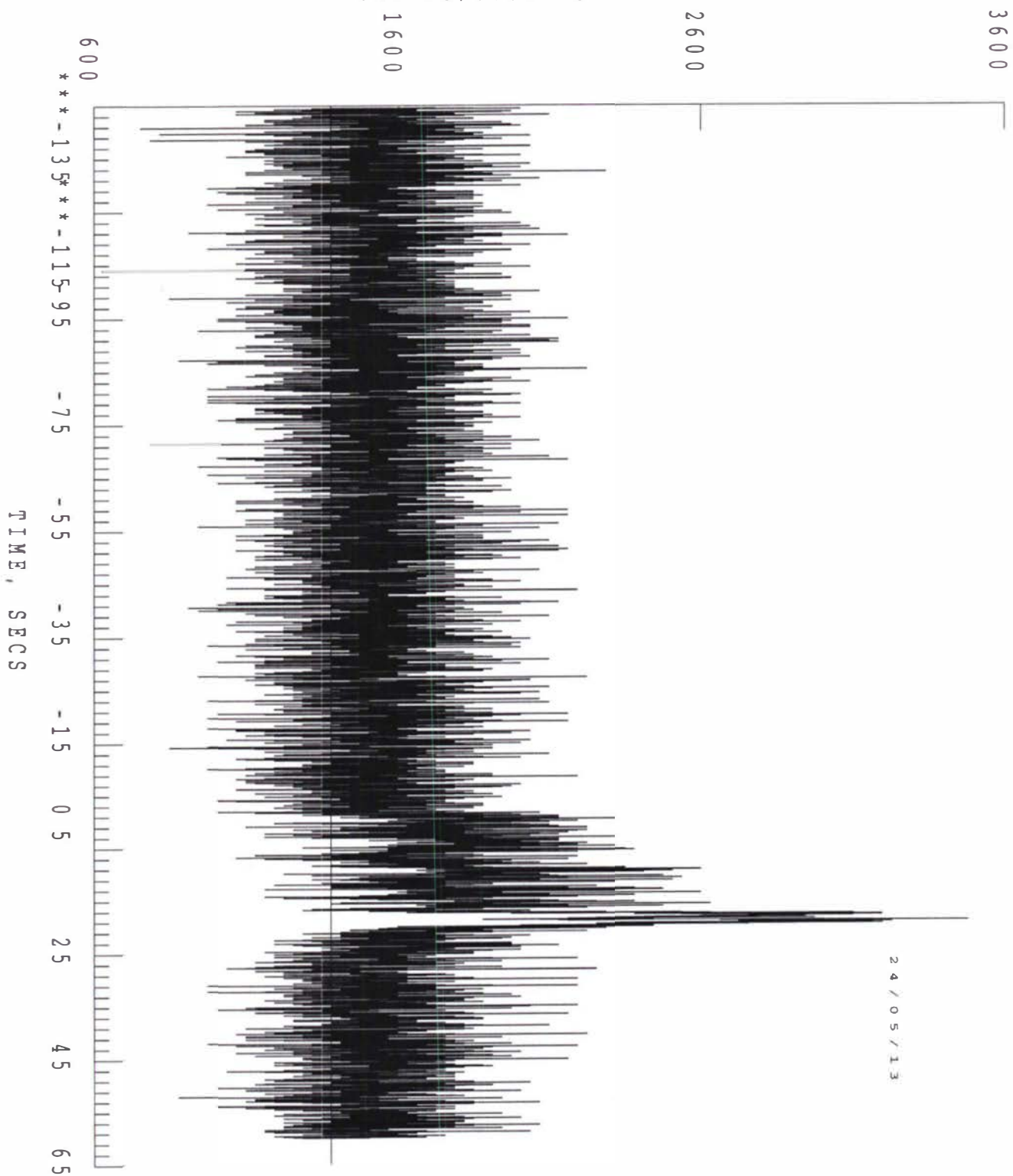
02:16:09

A

26 - 293 keV

22.29 29.73 2.82

COUNTS/0.032 S



GLAST

23/05/13

17142.275

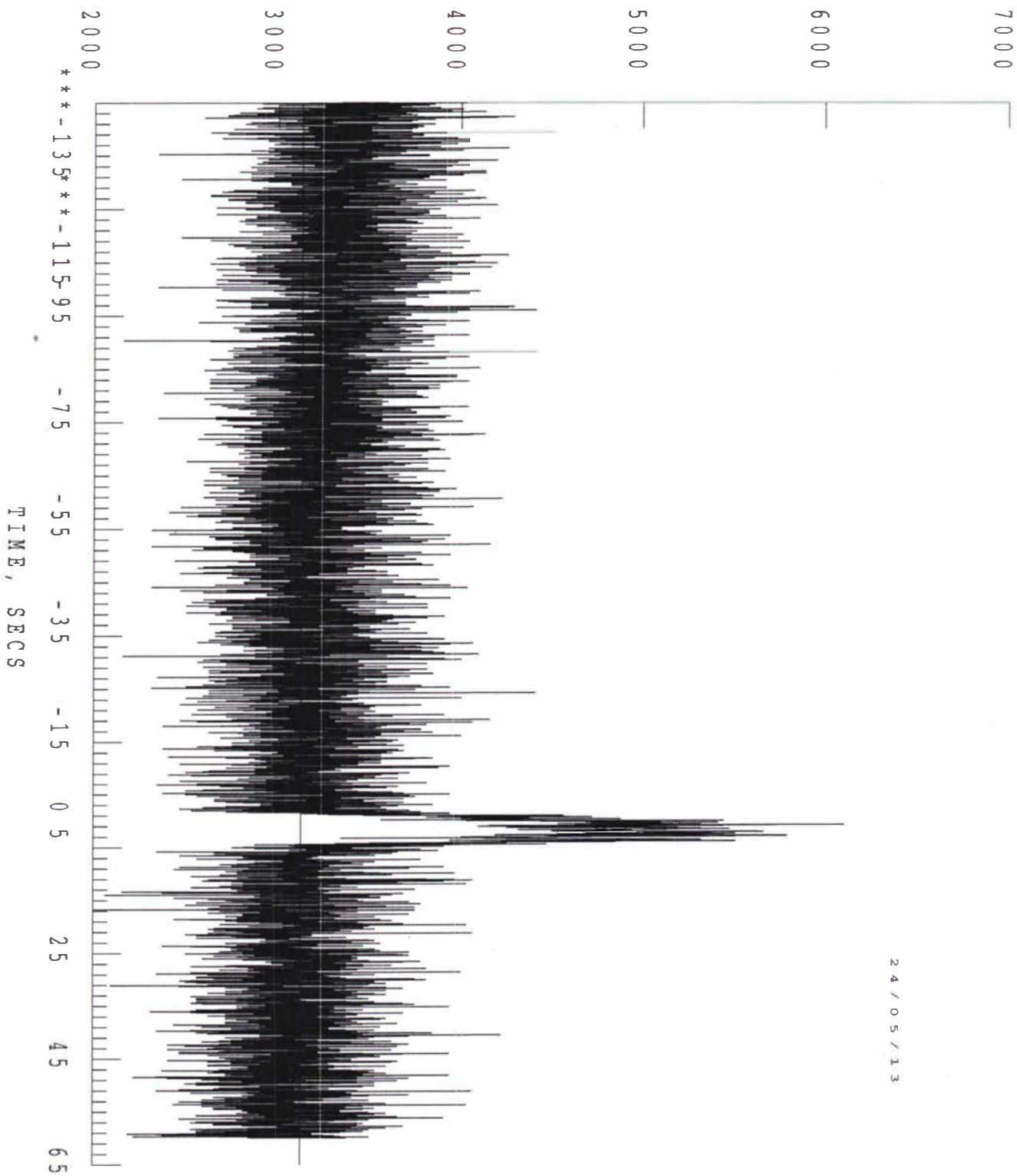
04:45:42

26- 293 keV

39.49 -63.07 2.13

B

COUNTS/0.032 S



24/05/13

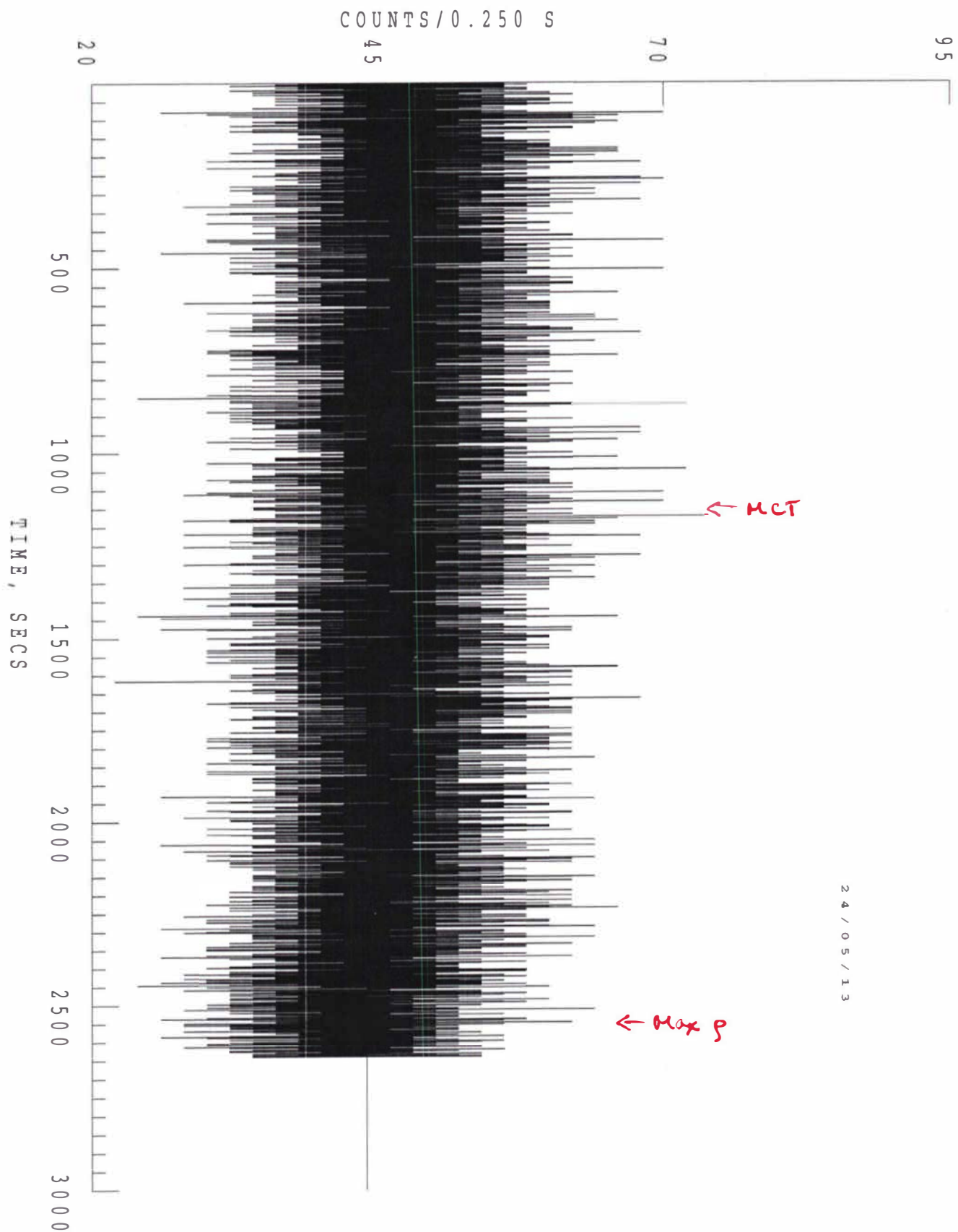
MS01

23/05/13

15798.061

B

50 - 3000 keV



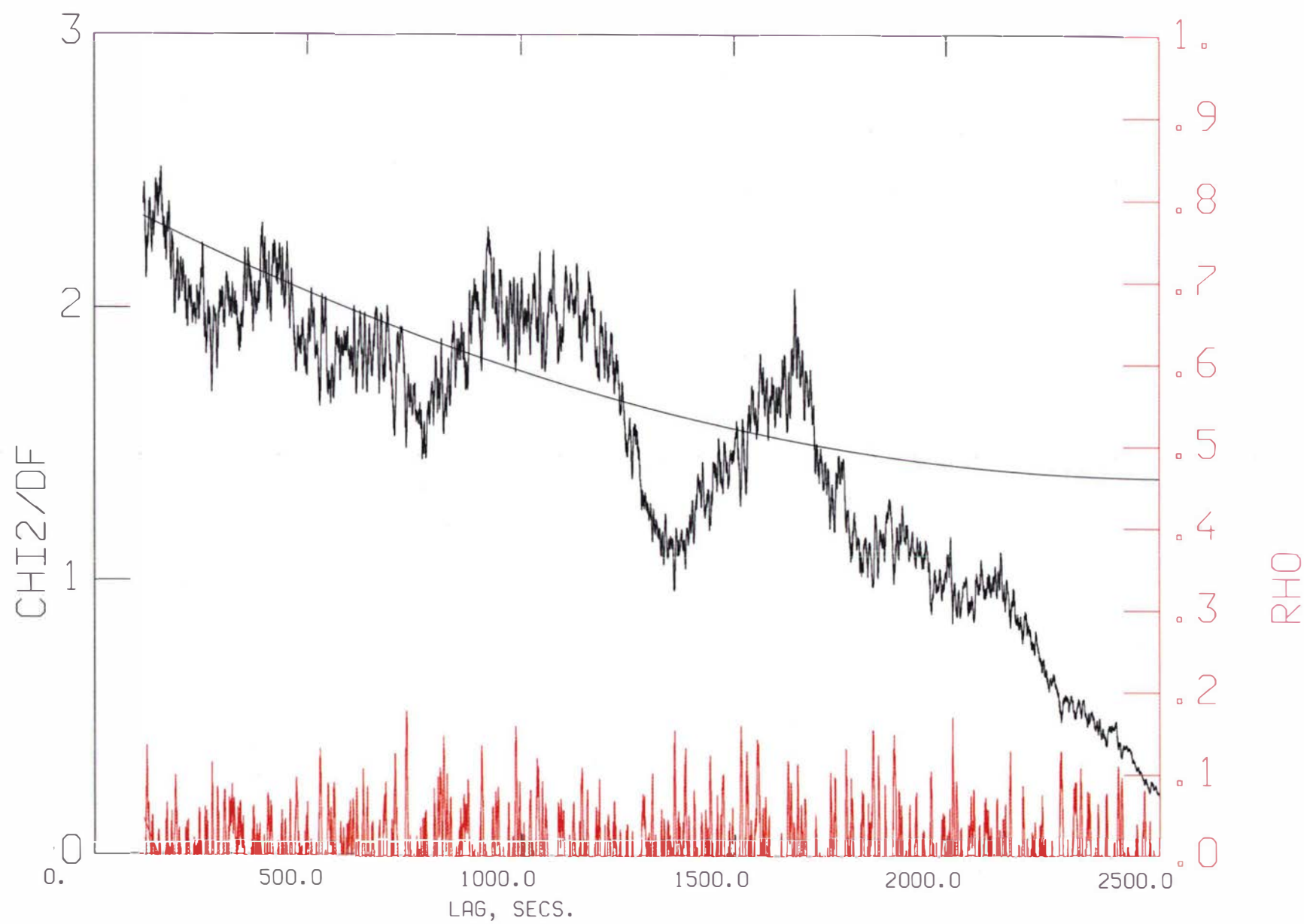
3

GLAST GBM -MS01 HEND CORRELATION

23/05/13

17142.275

29/10/13



From williams@gammaburst.ssl.berkeley.edu Tue May 28 23:01:55 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
~Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Tue, 28 May 2013 23:01:55 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GLAST_20130523_17142
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 28-May-2013 23:00:38.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Time_Range Partially in SAA
Time_Range Partially in eclipse
Time_Range Partially in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [Ipn] BAT lightcurve for trigger at 130523_0445

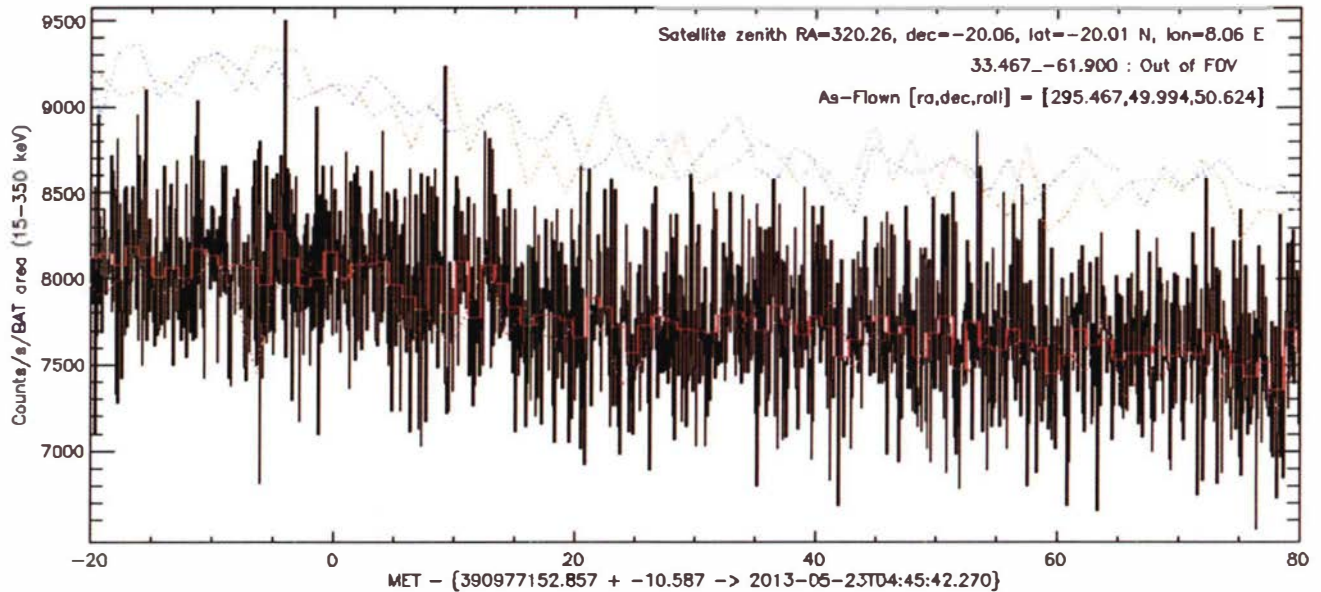
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/23/2013 2:33 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130523_0445.png



```
% /usr/local/bin/swinfo -o 390977152.857 -s 33.467_-61.900
Time(MET + UTCF -> UT): 390977152.857 + -10.587 -> 2013-05-23T04:45:42.270
YYMMDD_SOD: 130523_17142.270 DOY=143
Swift Zenith(RA,dec): 320.26, -20.06
Swift Location(lon,lat,alt): 8.06 E, -20.01 N, 569 km
Obs Sequence Number: 00074234027
Obs Target Name: saa-cold-143-02
Obs Date and Times: 2013-05-23 04:21:51 - 04:48:49
Obs Pointing(ra,dec,roll): 295.467, 49.994, 50.62
33.467_-61.900_imageloc (boresight_dist, angle): (136, -3)
33.467_-61.900_exposure (cm^2 cos adjusted): 0
33.467_-61.900_altitude: 49 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

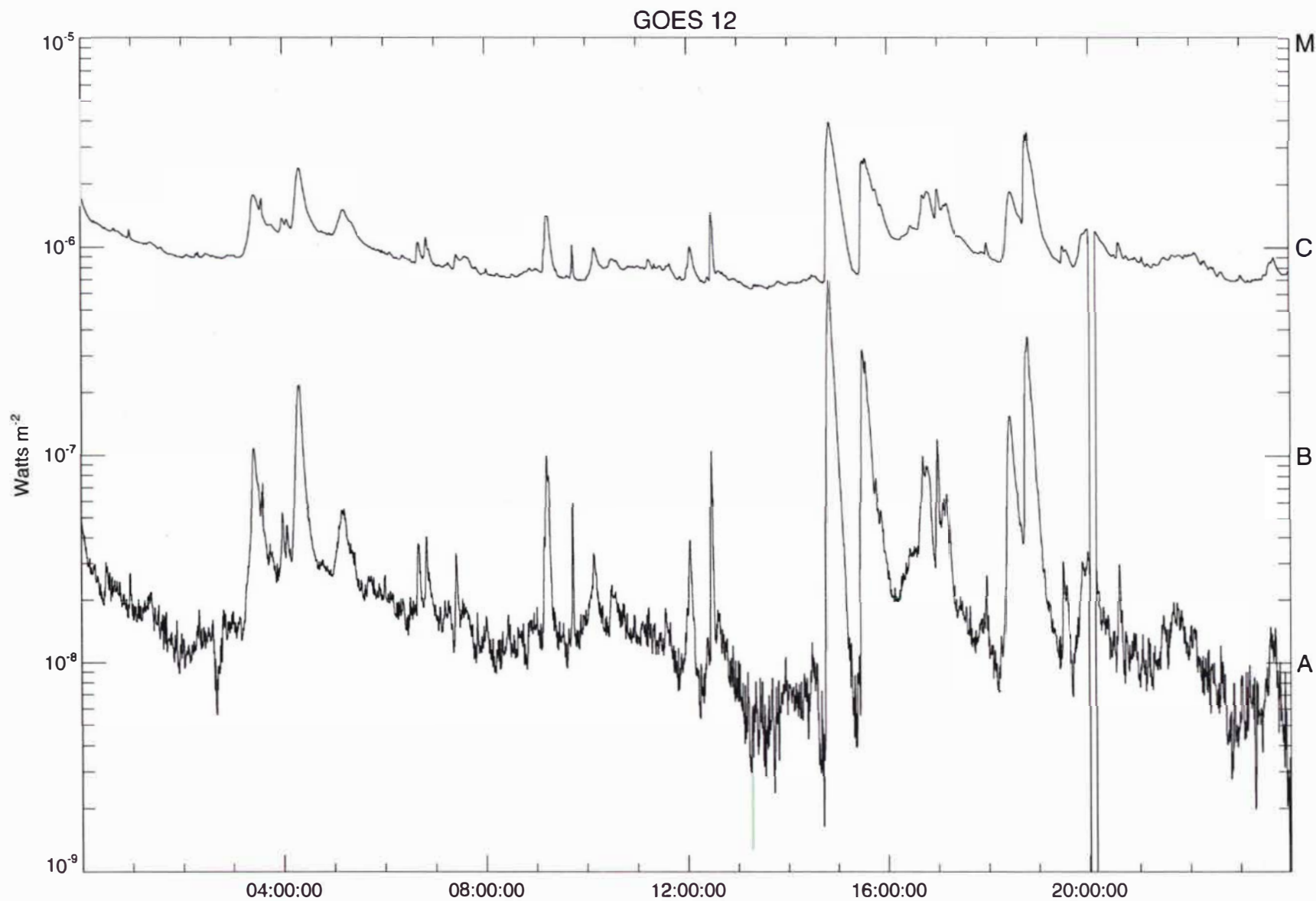
Attachments:

/tmp/130523_0445_bat64ms_ipn

87.1 KB

/tmp/130523_0445.png

18.6 KB



Data Start: 13/05/23, 0000:11

Plot created: 13/05/26, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

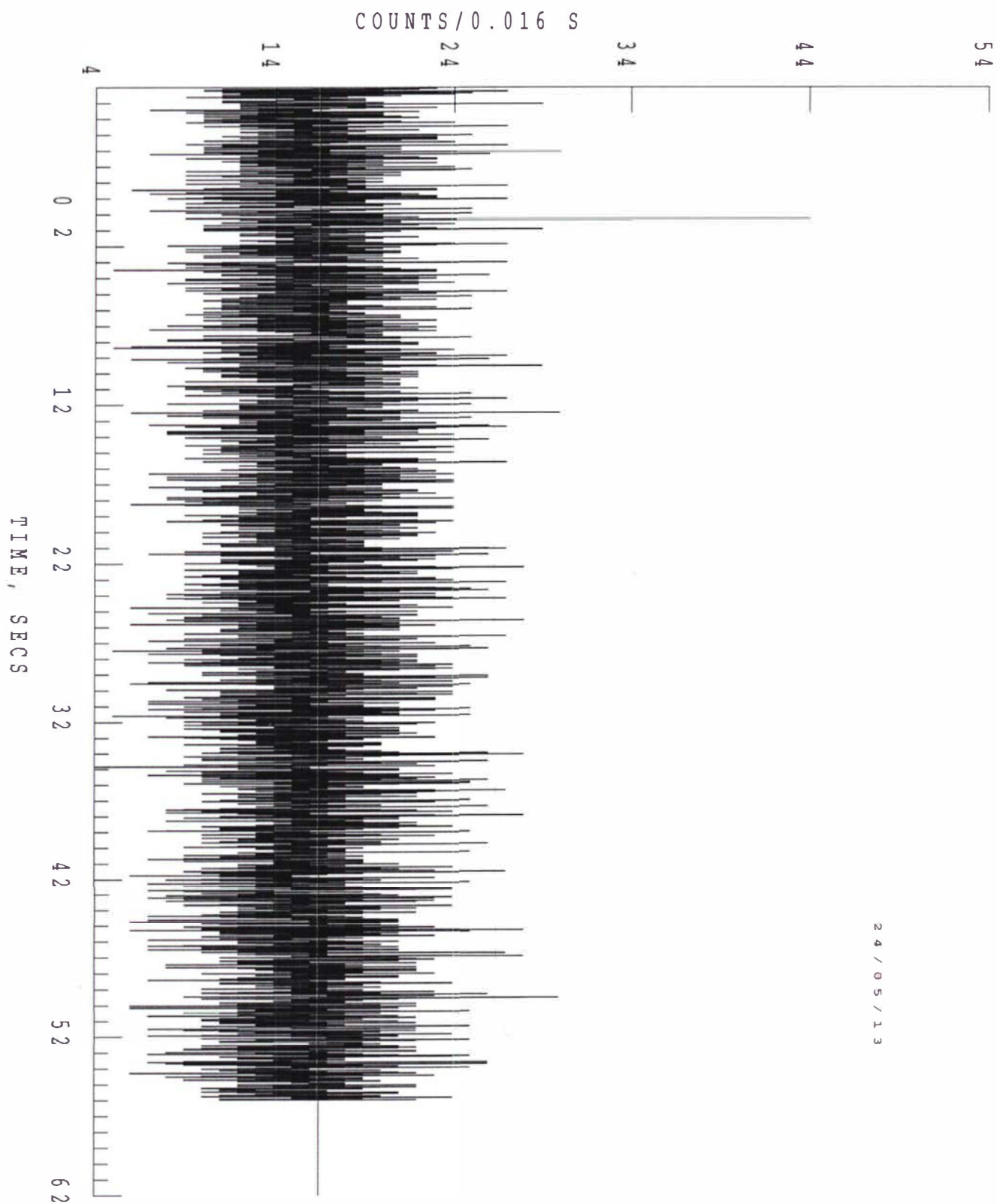
SUZAKU

24/05/13

41366.567

11:29:26

50 - 240 keV

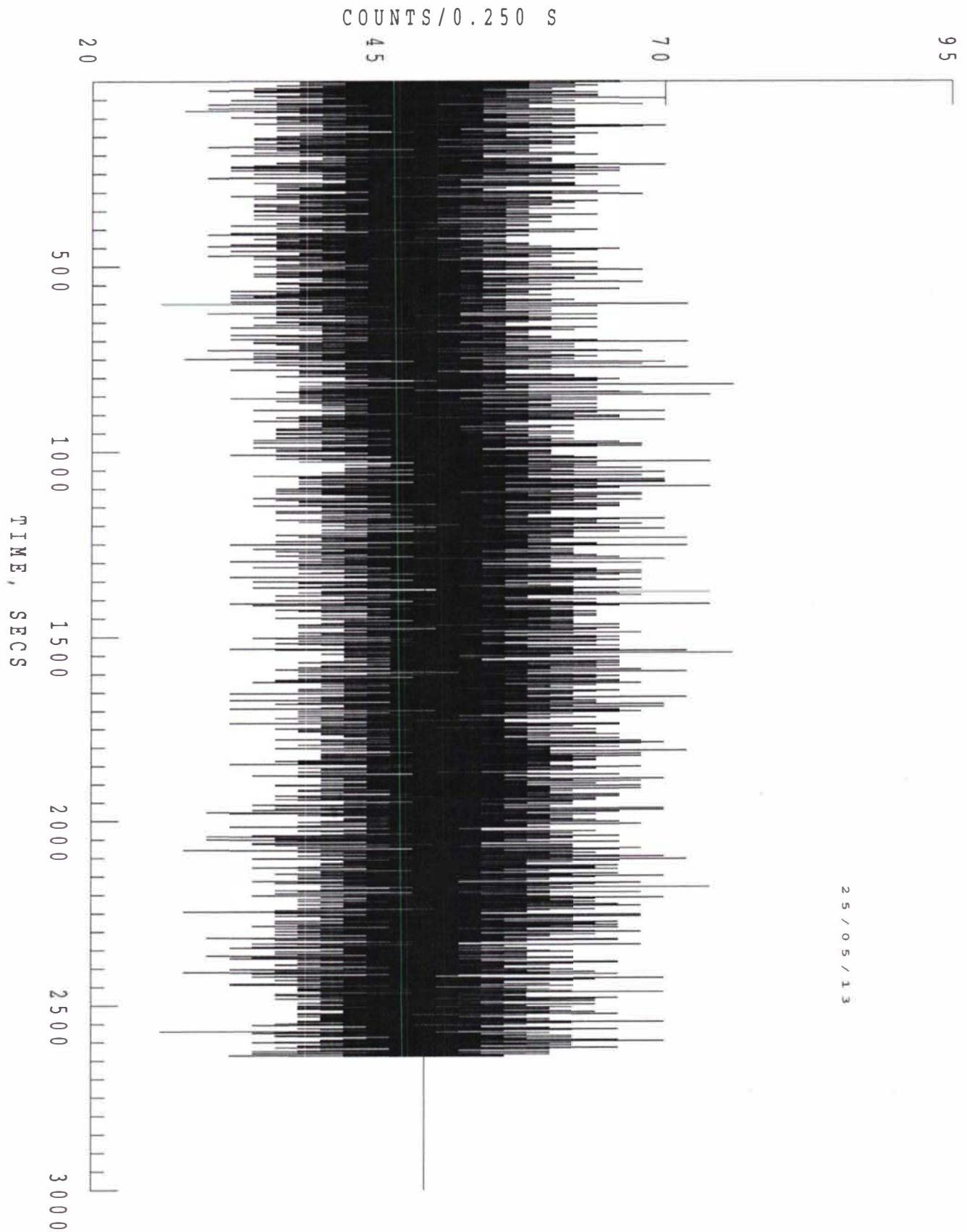


MS01

24/05/13

40036.212

50 - 3000 keV



From williams@gammaburst.ssl.berkeley.edu Fri May 24 07:26:53 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
v-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Fri, 24 May 2013 07:26:52 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20130524_41366
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 24-May-2013 07:25:35.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [Ipn] BAT lightcurve for trigger at 130524_1129

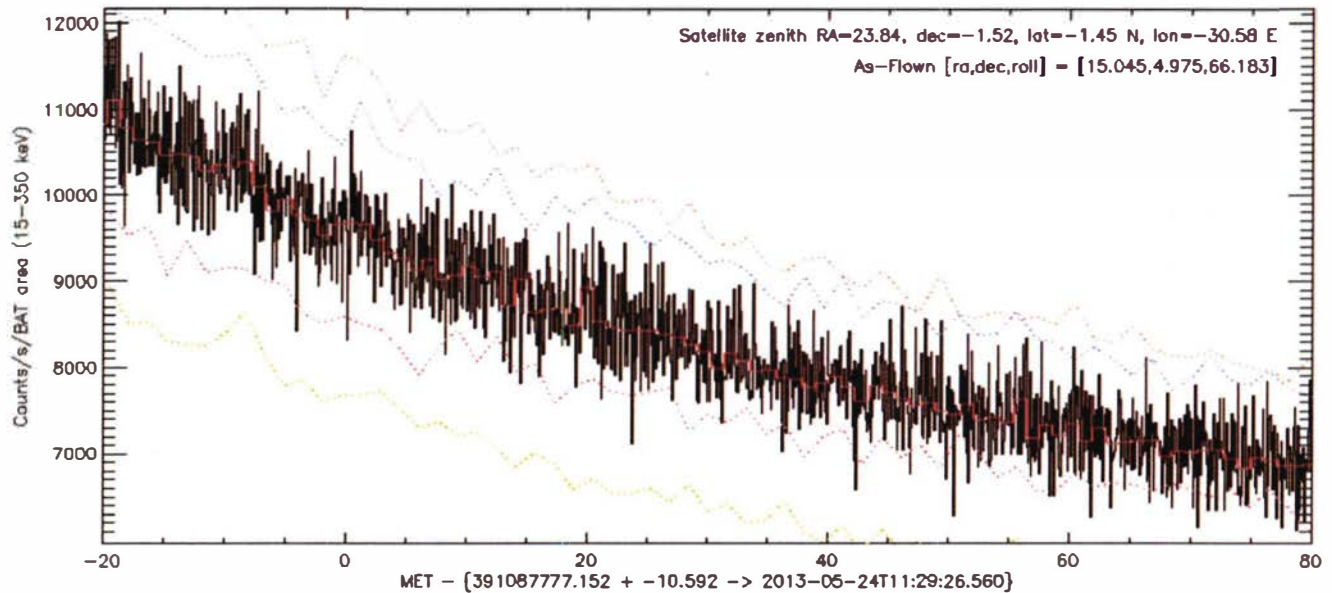
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/24/2013 1:04 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130524_1129.png



```
% /usr/local/bin/swinfo -o 391087777.152
Time(MET + UTCF -> UT): 391087777.152 + -10.592 -> 2013-05-24T11:29:26.560
YYMMDD_SOD: 130524_41366.560 DOY=144
Swift Zenith(RA,dec): 23.84, -1.52
Swift Location(lon,lat,alt): -30.58 E, -1.45 N, 573 km
Obs Sequence Number: 00075334012
Obs Target Name: saa-cold-144-06
Obs Date and Times: 2013-05-24 11:11:51 - 11:31:47
Obs Pointing(ra,dec,roll): 15.045, 4.975, 66.18
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

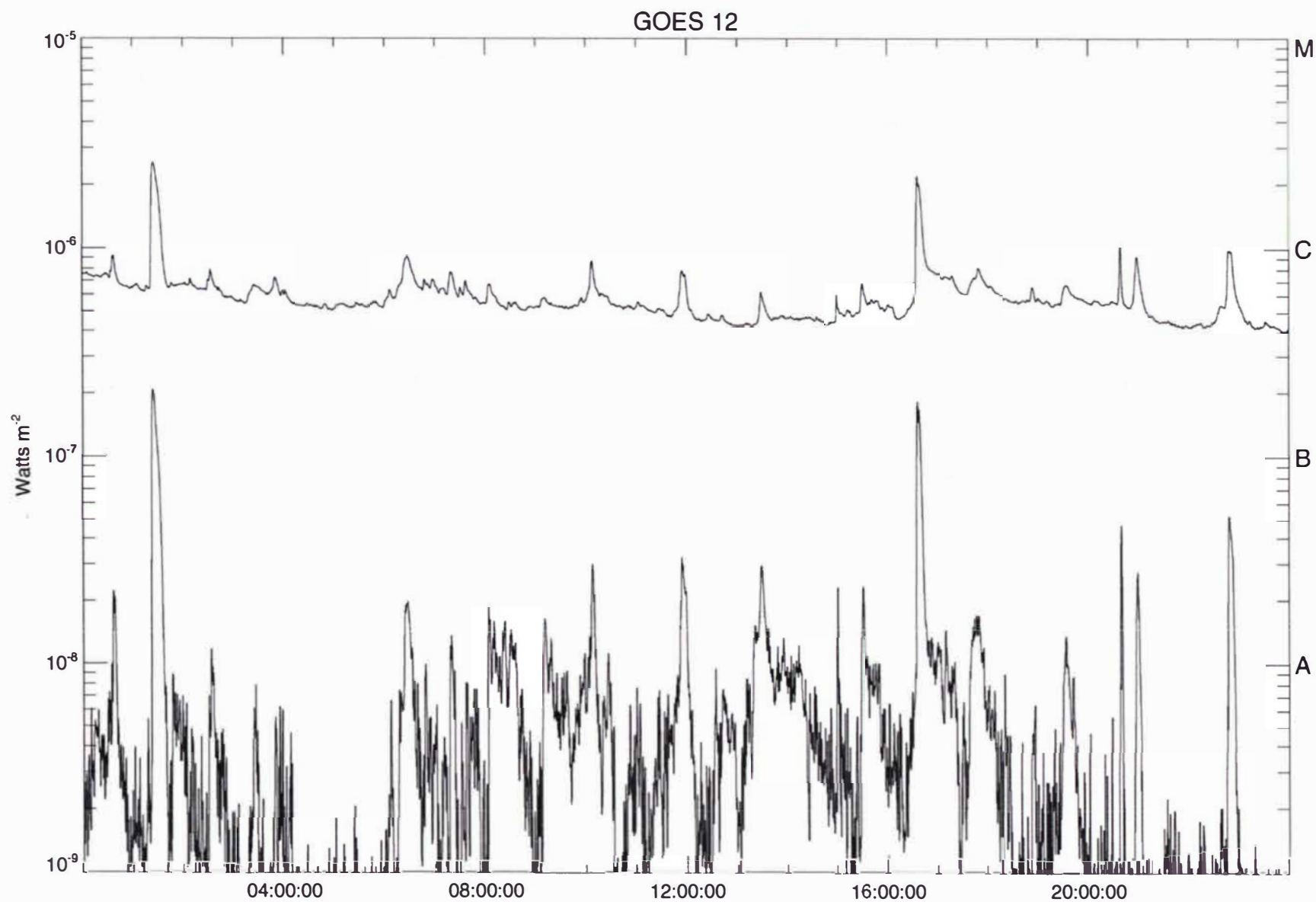
Attachments:

/tmp/130524_1129_bat64ms_ipn

87.0 KB

/tmp/130524_1129.png

15.9 KB



Data Start: 13/05/24, 0000:11

Plot created: 13/05/27, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: [Ipn] BAT lightcurve for trigger at 130526_1048

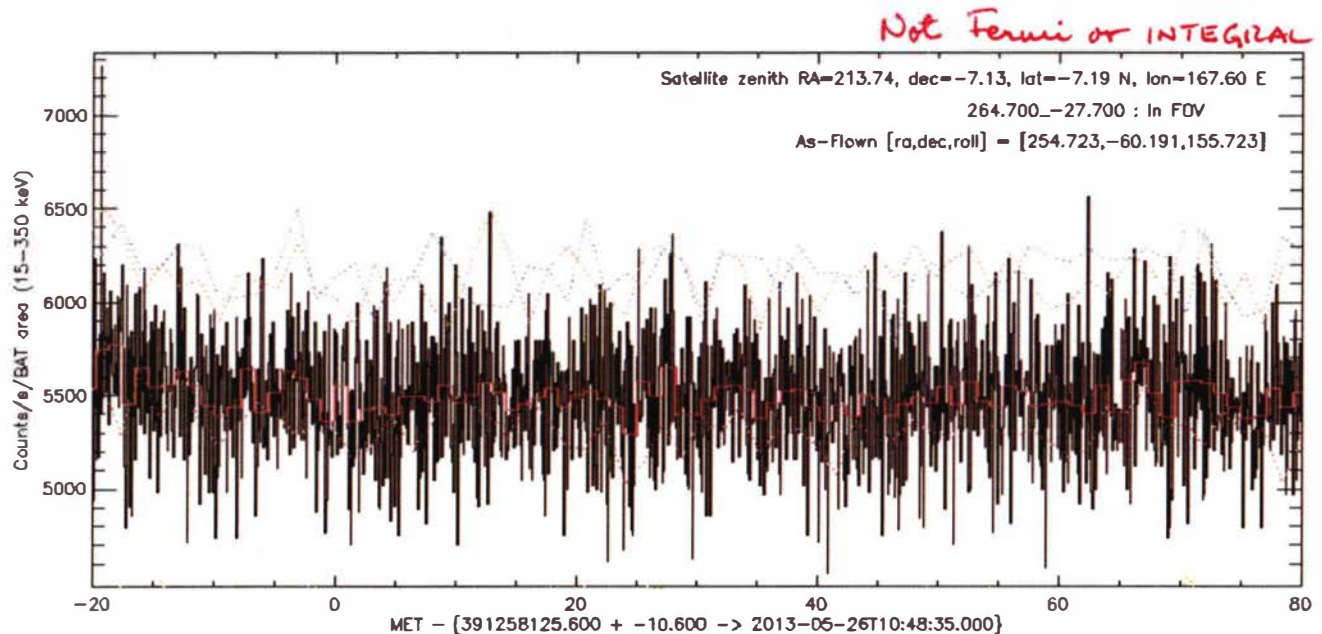
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/27/2013 1:40 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130526_1048.png



```
% /usr/local/bin/swinfo -o 391258125.600 -s 264.700_-27.700
Time(MET + UTCF -> UT): 391258125.600 + -10.600 -> 2013-05-26T10:48:35.000
YYMMDD_SOD: 130526_38915.000 DOY=146
Swift Zenith(RA,dec): 213.74, -7.13
Swift Location(lon,lat,alt): 167.60 E, -7.19 N, 580 km
Obs Sequence Number: 00032800008
Obs Target Name: PSN J16590243-6011418
Obs Date and Times: 2013-05-26 10:45:51 - 11:04:50
Obs Pointing(ra,dec,roll): 254.723, -60.191, 155.72
264.700_-27.700_imageloc (boresight_dist, angle): (33, 131)
264.700_-27.700_exposure (cm2 cos adjusted): 2029
264.700_-27.700_altitude: 61 (up)
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

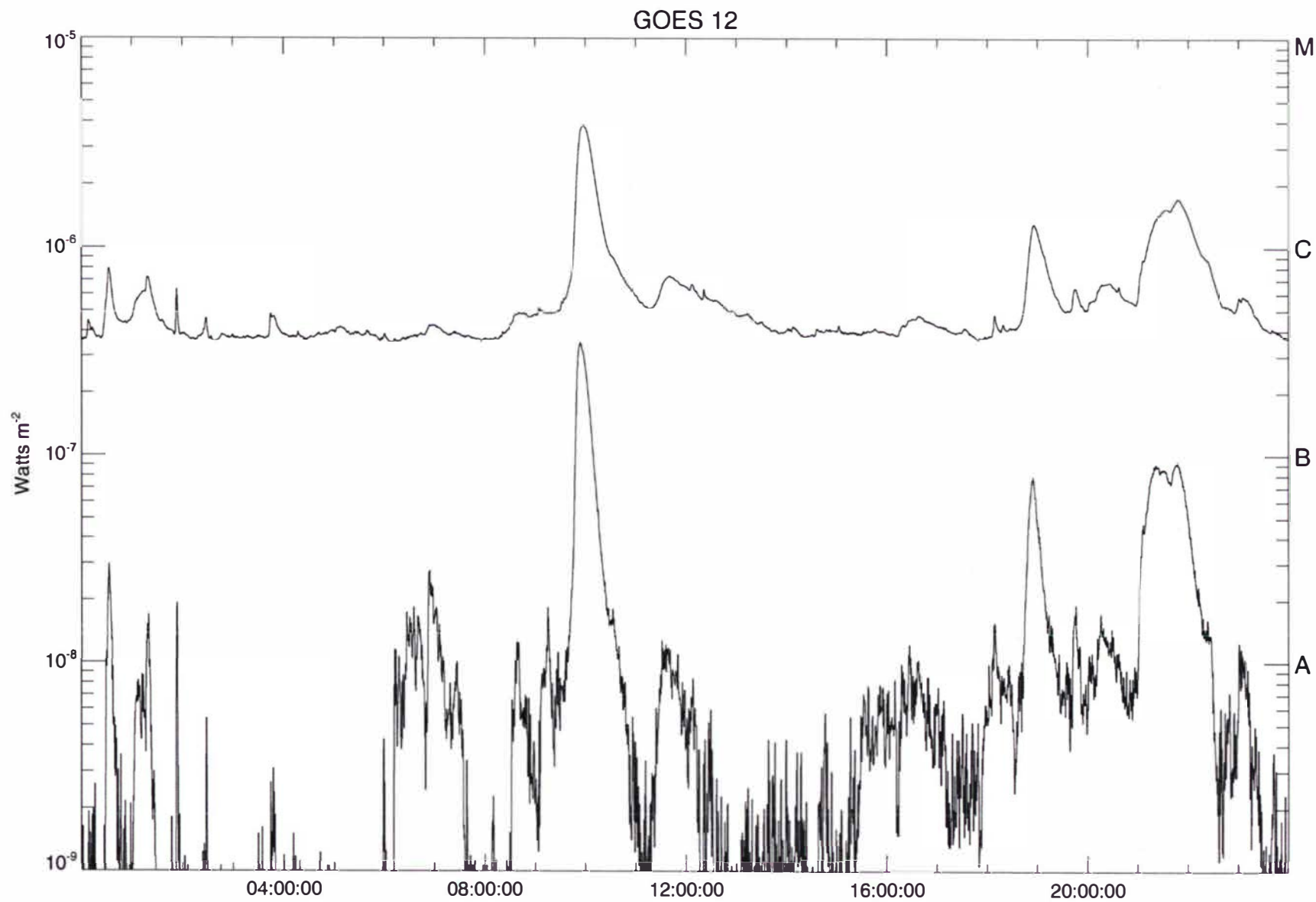
Attachments:

/tmp/130526_1048.png

19.2 KB

/tmp/130526_1048_bat64ms_ipn

87.0 KB



Data Start: 13/05/26, 0000:12

Plot created: 13/05/29, 0830

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Sample average = 10

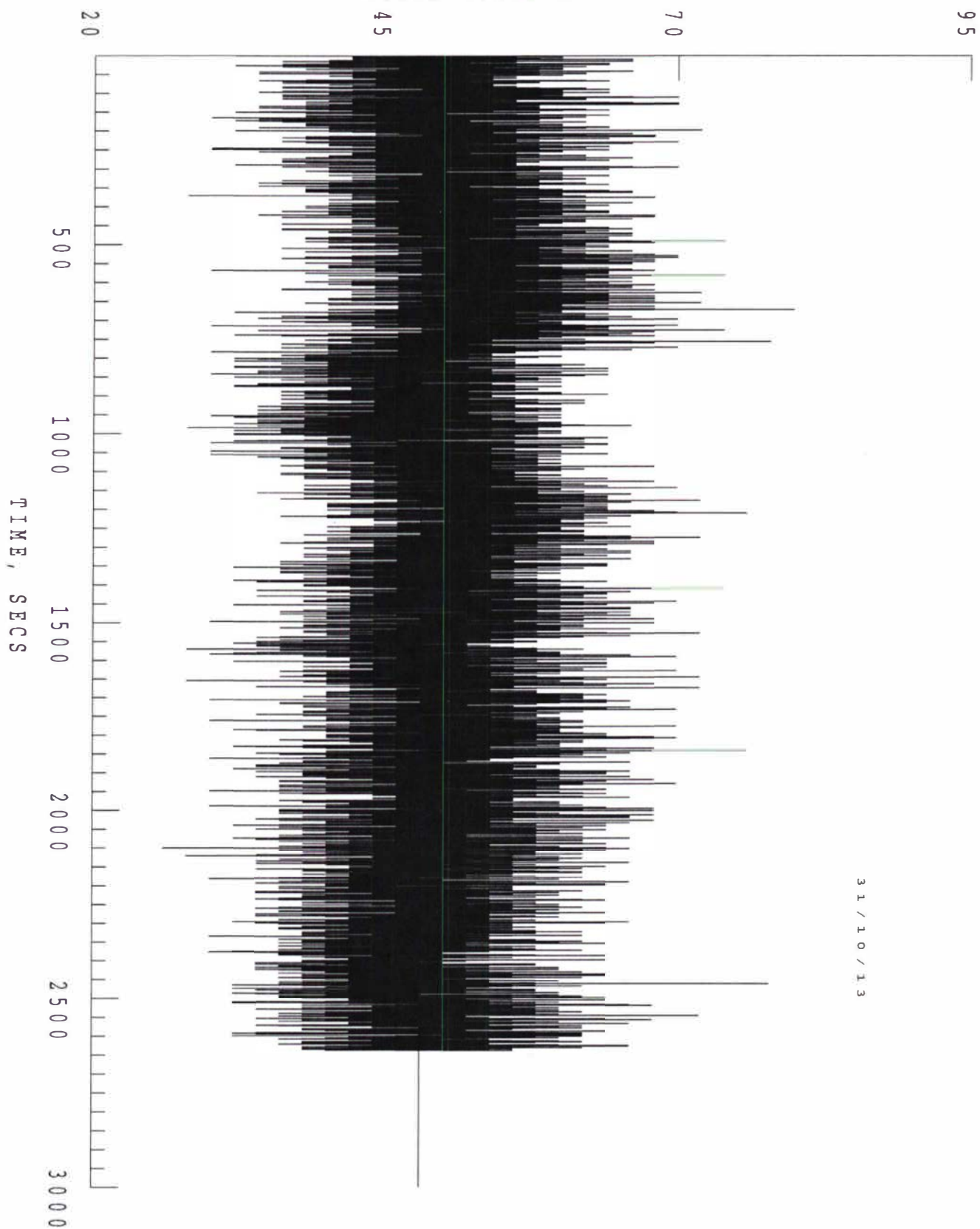
MS01

27/05/13

38351.912

50 - 3000 keV

COUNTS/0.250 S



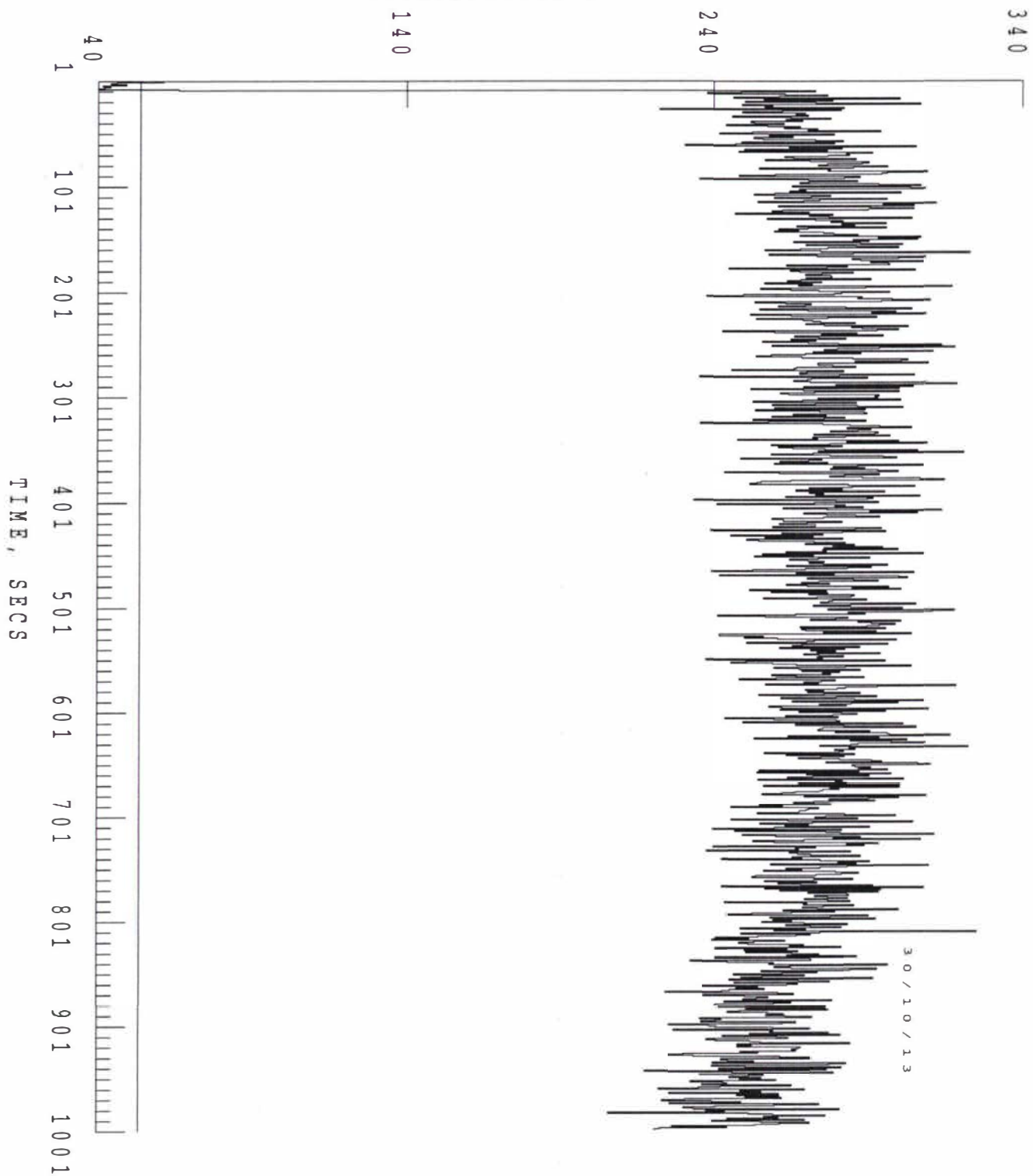
31 / 10 / 13

HESSI

27/05/13 39180.000 (KONUS_RI_20130527_39680)

25- 150 keV

COUNTS/1.000 S



In ACCESS A

From vxw@capella2.gsfc.nasa.gov Mon May 27 07:26:05 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Mon, 27 May 2013 10:26:04 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

44s

$1.2 \times 10^{-5} \text{ erg cm}^{-2}$

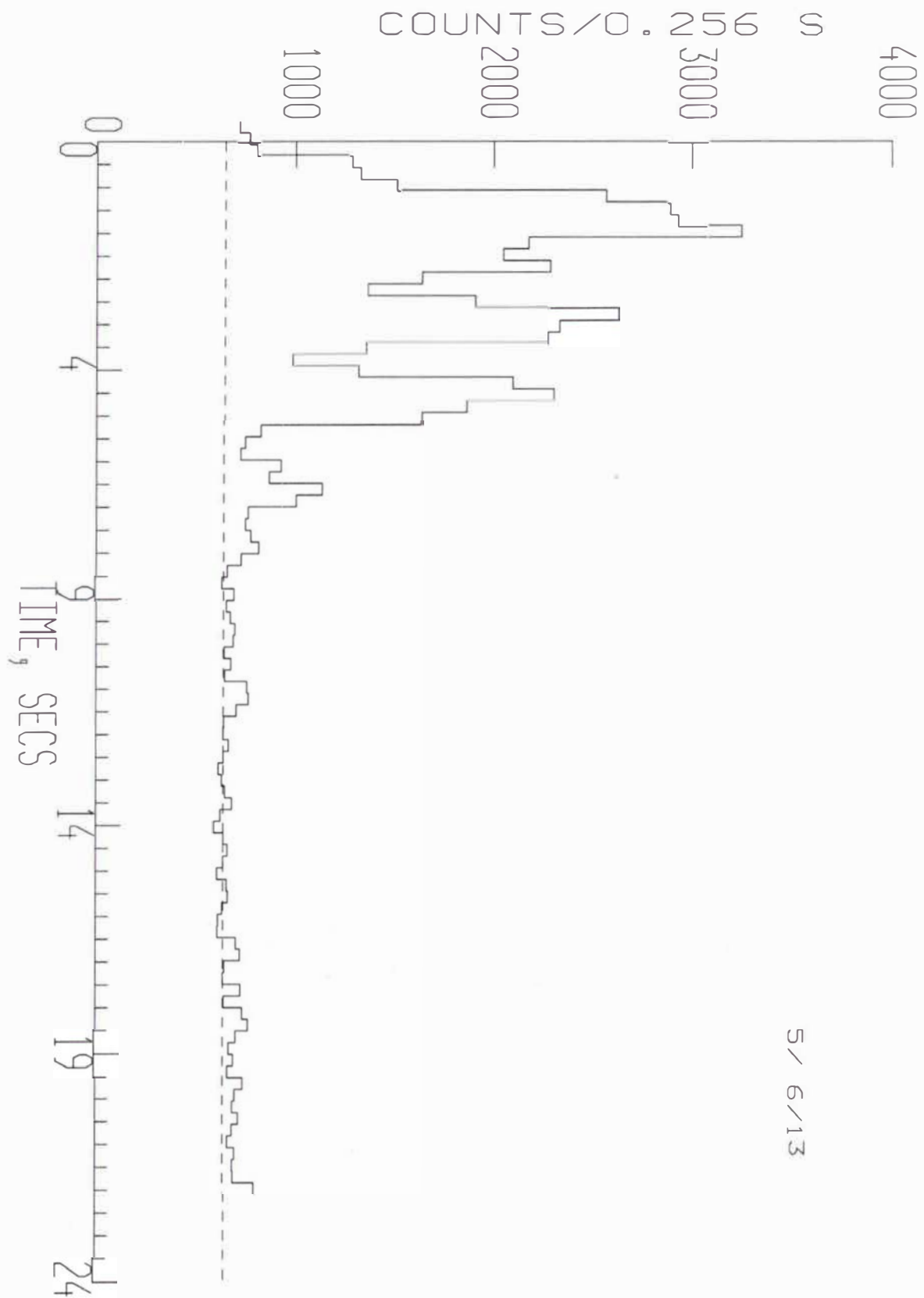
20.1 phot/cm²s

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Mon 27 May 13 14:25:27 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 556753, Seg_Num: 0
GRB_RA: 309.279d {+20h 37m 07s} (J2000),
309.477d {+20h 37m 54s} (current),
308.538d {+20h 34m 09s} (1950)
GRB_DEC: -24.728d {-24d 43' 39"} (J2000),
-24.680d {-24d 40' 49"} (current),
-24.903d {-24d 54' 09"} (1950)
GRB_DATE: 16439 TJD; 147 DOY; 13/05/27
GRB_TIME: 51690.19 SOD {14:21:30.19} UT
TRIGGER_INDEX: 155
GRB_PHI: 155.84 [deg]
GRB_THETA: 48.75 [deg]
DELTA_TIME: 0.00 [sec]
TRIGGER_DUR: 1.024 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 255.99 [sigma]
MAGE_SIGNIF: 13.89 [sigma]
C_URL: sw00556753000msb.lc
SUN_POSTN: 64.60d {+04h 18m 24s} +21.39d {+21d 23' 07"}
SUN_DIST: 120.76 [deg] Sun_angle= 7.7 [hr] (West of Sun)
MOON_POSTN: 281.22d {+18h 44m 52s} -18.87d {-18d 52' 21"}
MOON_DIST: 26.82 [deg]
MOON_ILLUM: 91 [%]
GAL_COORDS: 19.92, -33.40 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 305.32, -5.98 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: SWIFT-BAT GRB Lightcurve.
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 = 184.85, -20.31 [de

309.2762 -24.7246

100056

SWIFT 27/05/13 51690.196
25- 100 keV



MS01

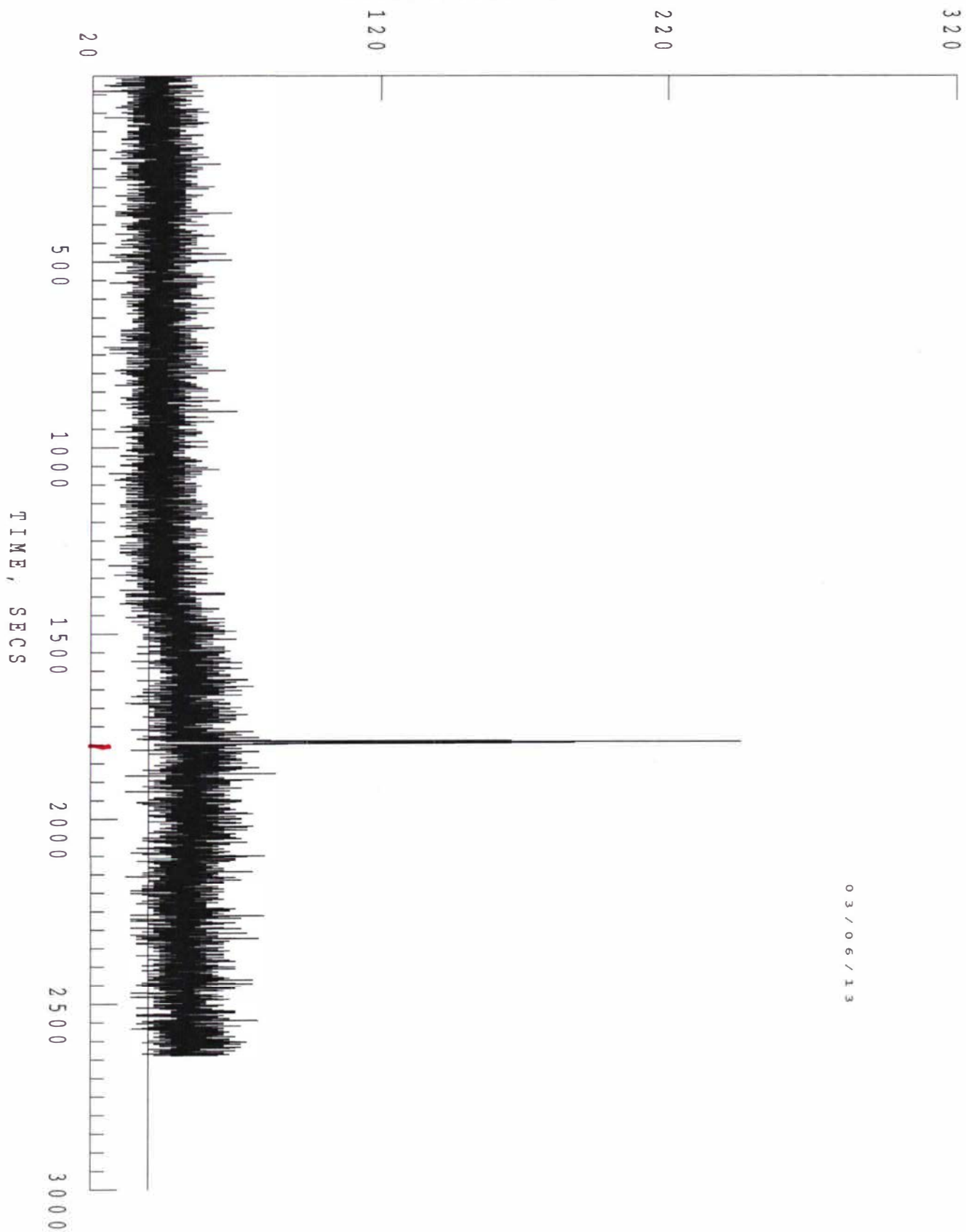
27/05/13

50351.710

A

50 - 3000 keV

COUNTS/0.250 S



03/06/13

KONUS2

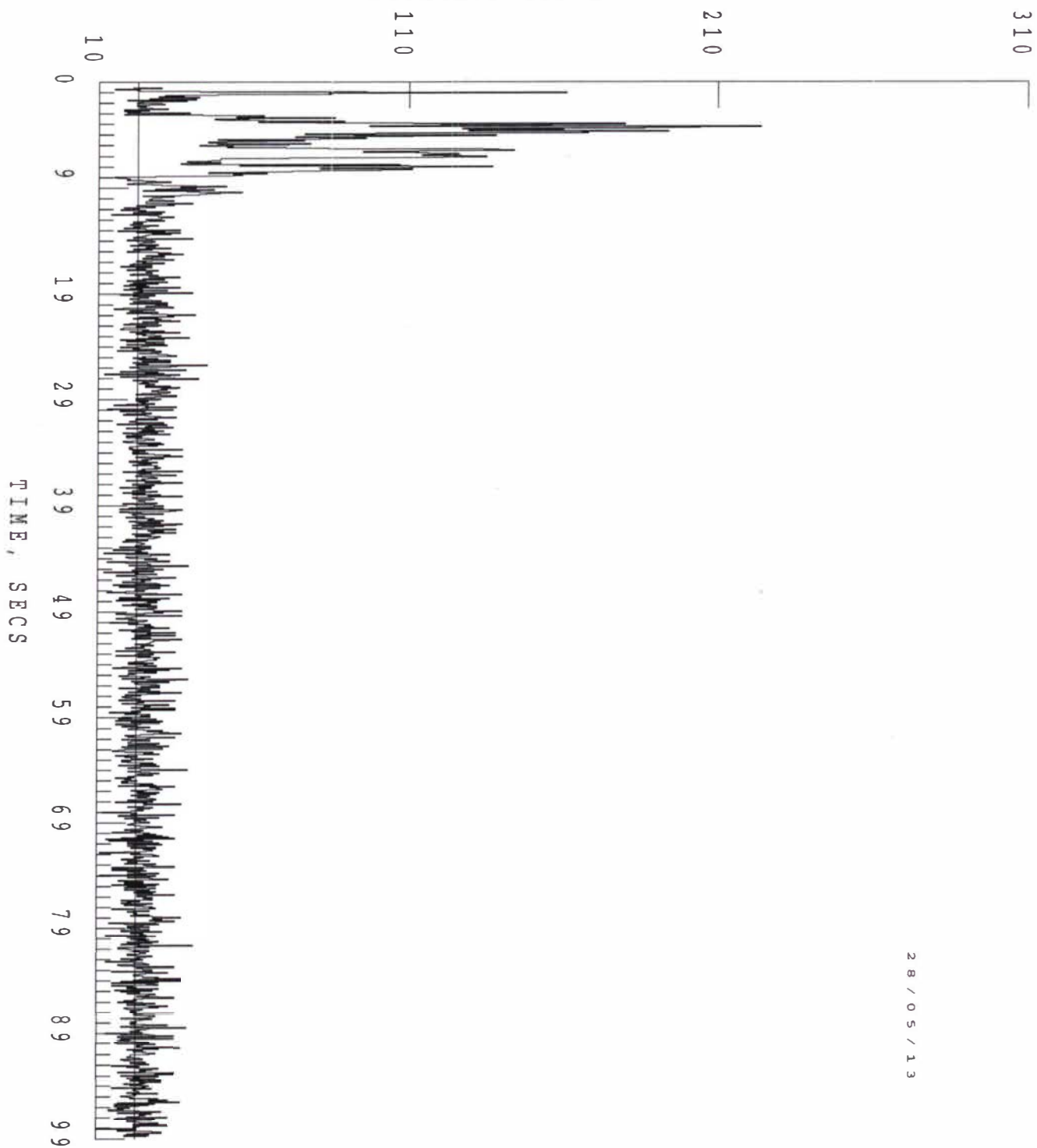
27/05/13

51688.300

A

50 - 200 keV

COUNTS/0.064 S



28/05/13

A

KONUS HRES 20130527 51688

TRIGGER TIME: 27/05/13 DOY 147 Julian 2456441.09824 UT = 14.358 14:21:28 (51688.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

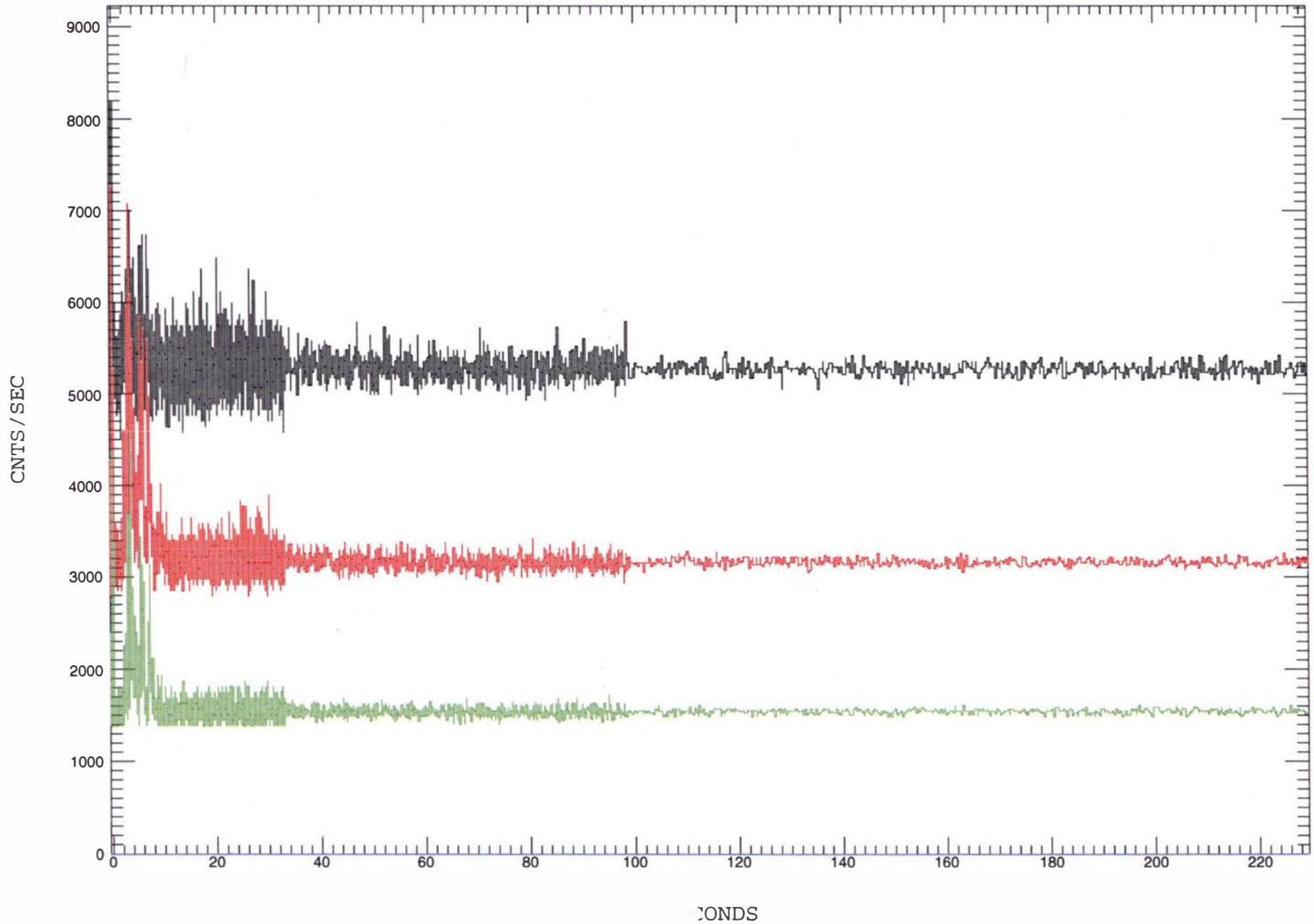
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



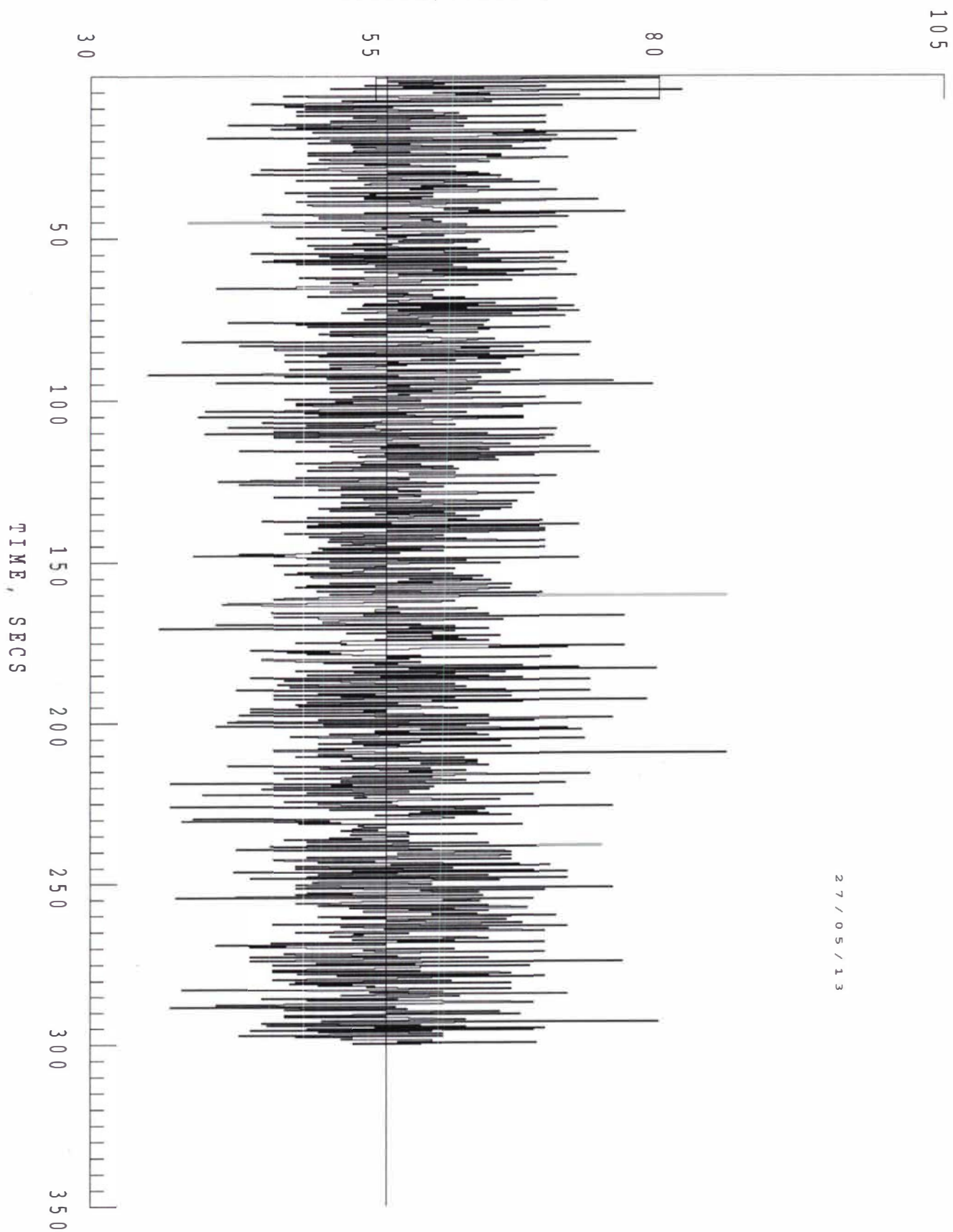
HESSI

27/05/13 51537.000 (SUZAKU_20130527_51687)

A

25- 150 keV

COUNTS/0.250 S



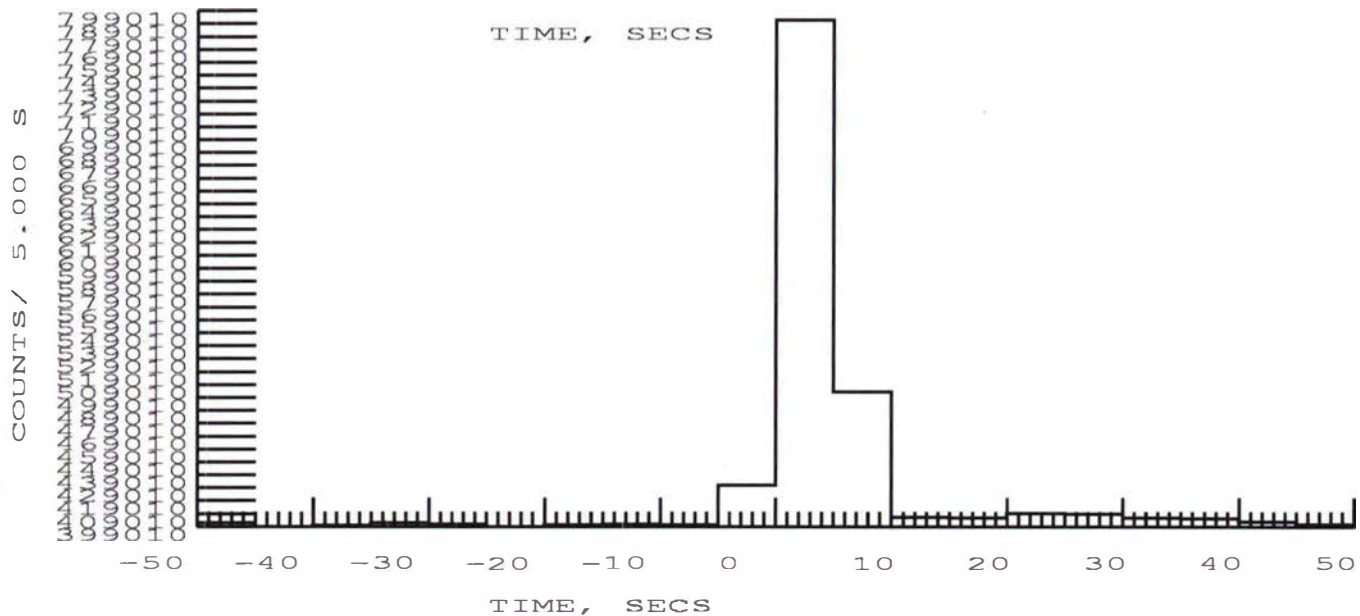
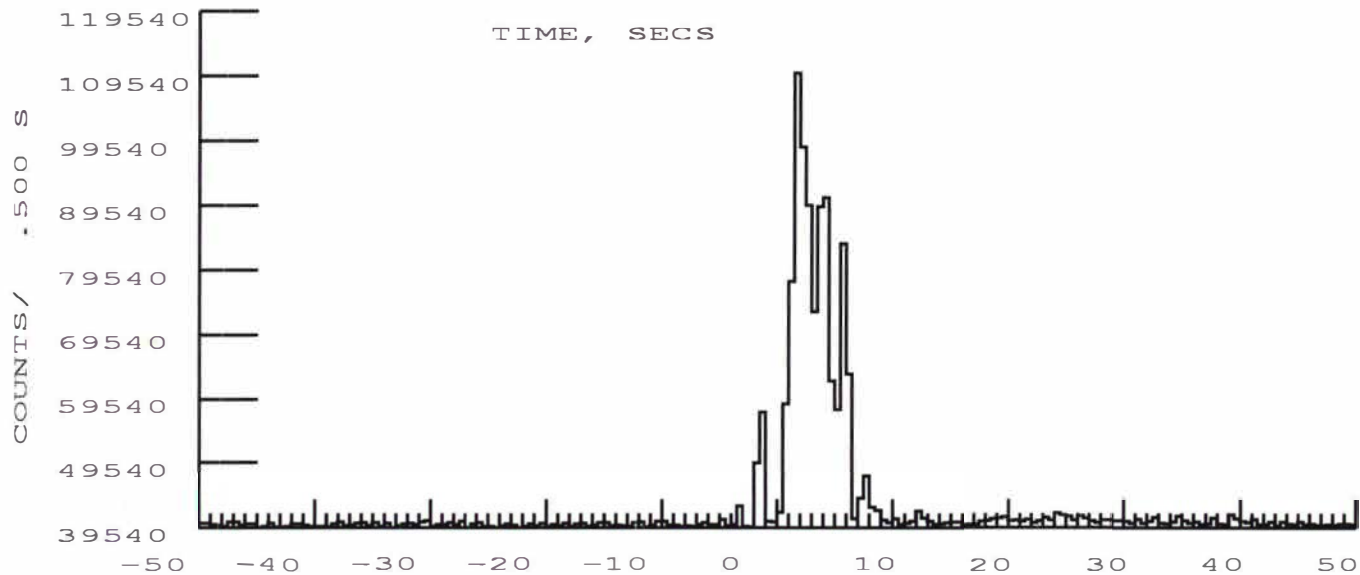
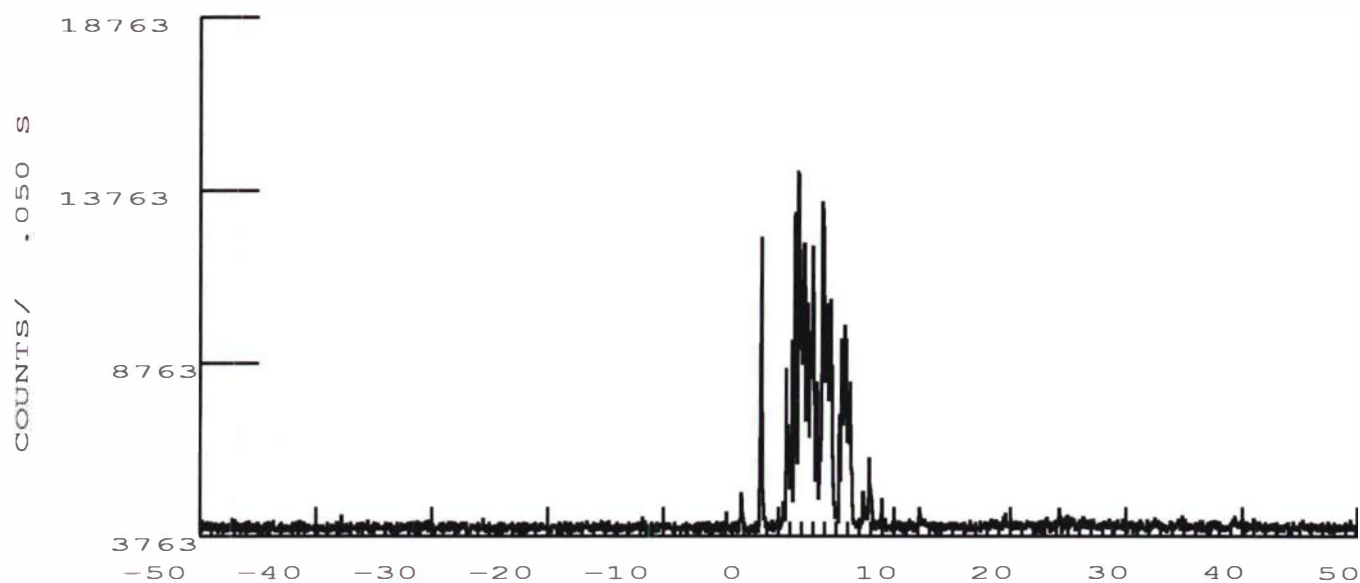
INTEGRAL

27/05/13

51689.000

14:21:29.0

13/10/15



Subject: [Ipn] BAT lightcurve for trigger at 130527_1421

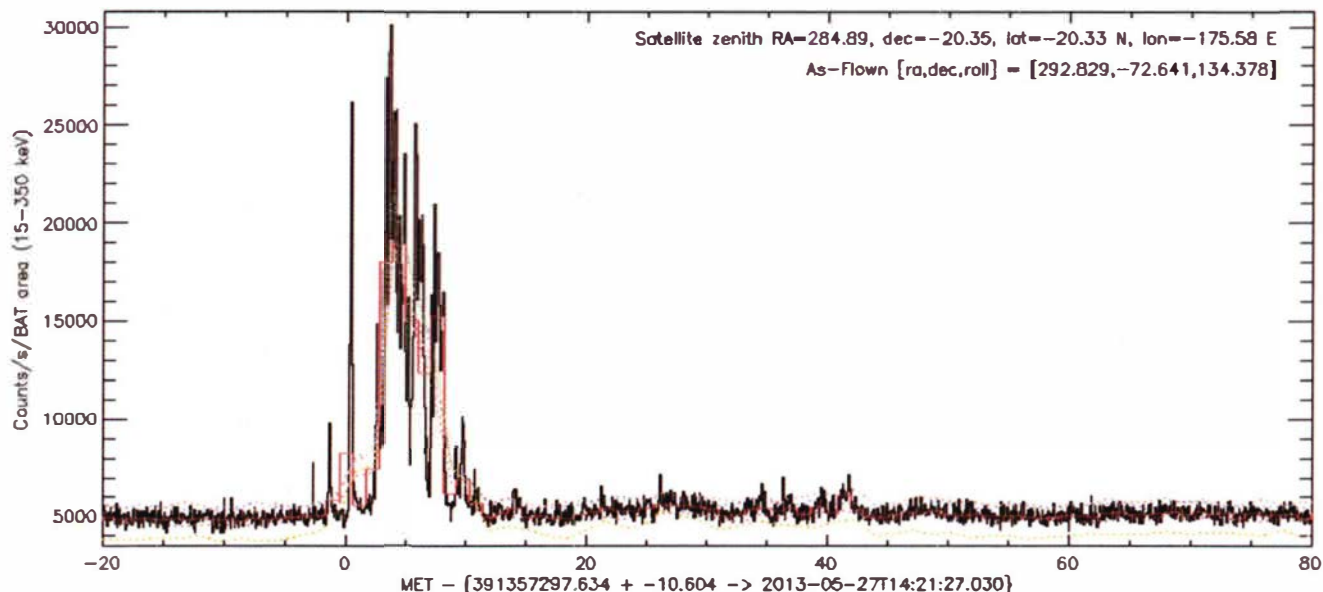
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/27/2013 3:04 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130527_1421.png



```
% /usr/local/bin/swinfo -o 391357297.634
Time(MET + UTCF -> UT): 391357297.634 + -10.604 -> 2013-05-27T14:21:27.030
YYMMDD_SOD: 130527_51687.030 DOY=147
Swift Zenith(RA,dec): 284.89, -20.35
Swift Location(lon,lat,alt): -175.58 E, -20.33 N, 572 km
Obs Sequence Number: 00080230003
Obs Target Name: Super antennae
Obs Date and Times: 2013-05-27 14:09:51 - 14:21:45
Obs Pointing(ra,dec,roll): 292.829, -72.641, 134.38
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130527_1421.png

12.9 KB

/tmp/130527_1421_bat64ms_ipn

87.0 KB

A

29/10/13

MESSENGER

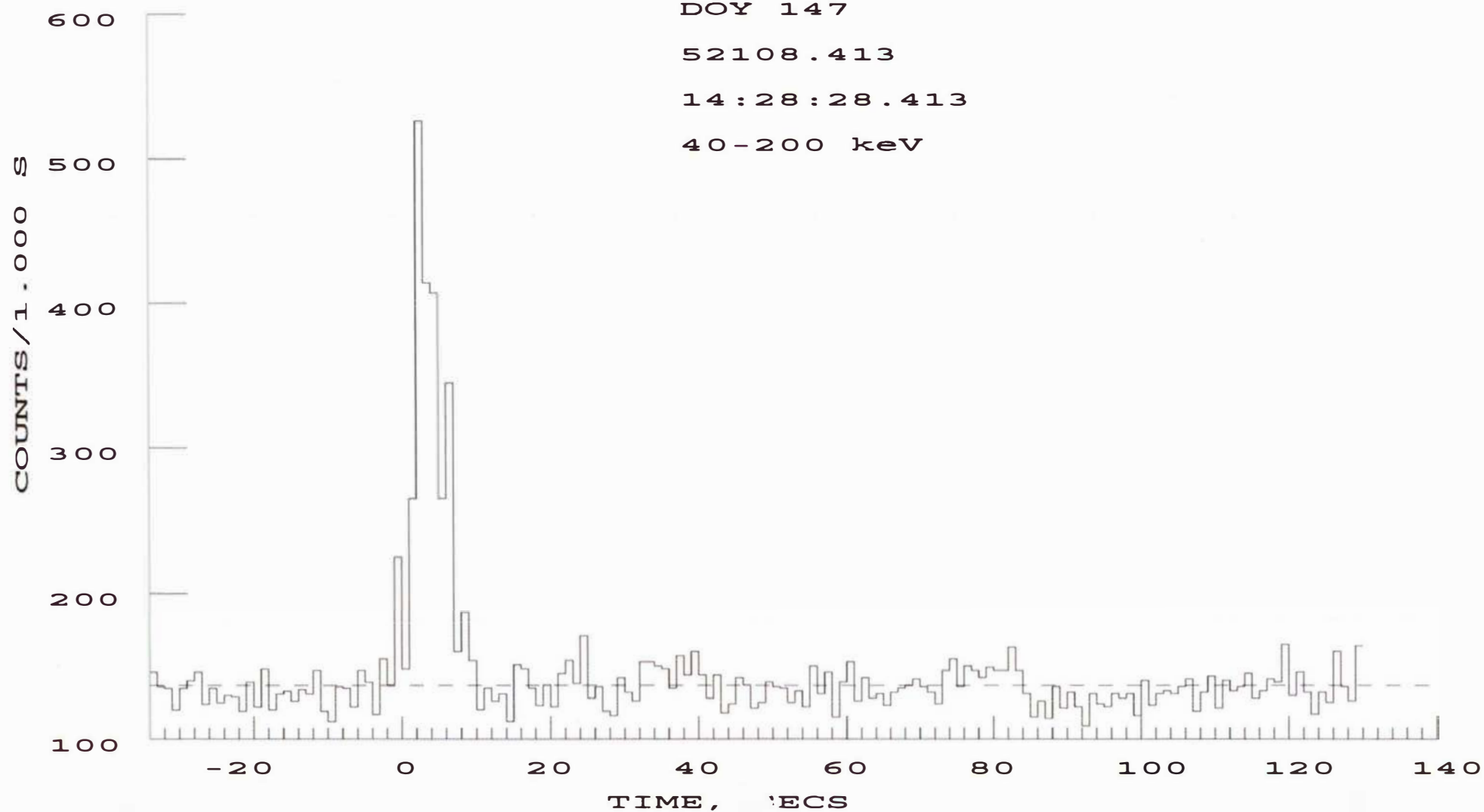
27/05/13

DOY 147

52108.413

14:28:28.413

40-200 keV



SUZAKU

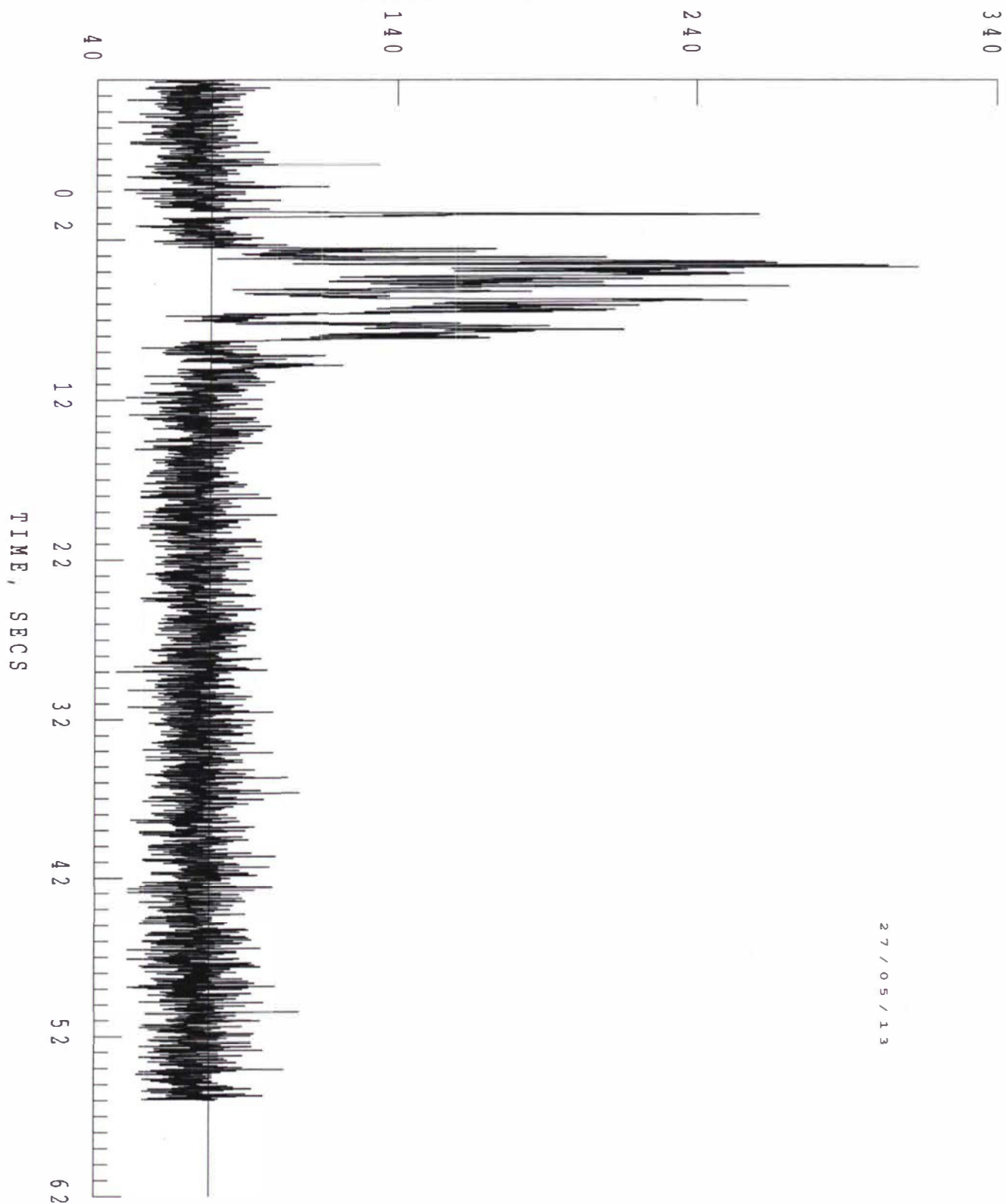
27/05/13

51687.032

A

50 - 240 keV

COUNTS/0.016 S



SUZAKU

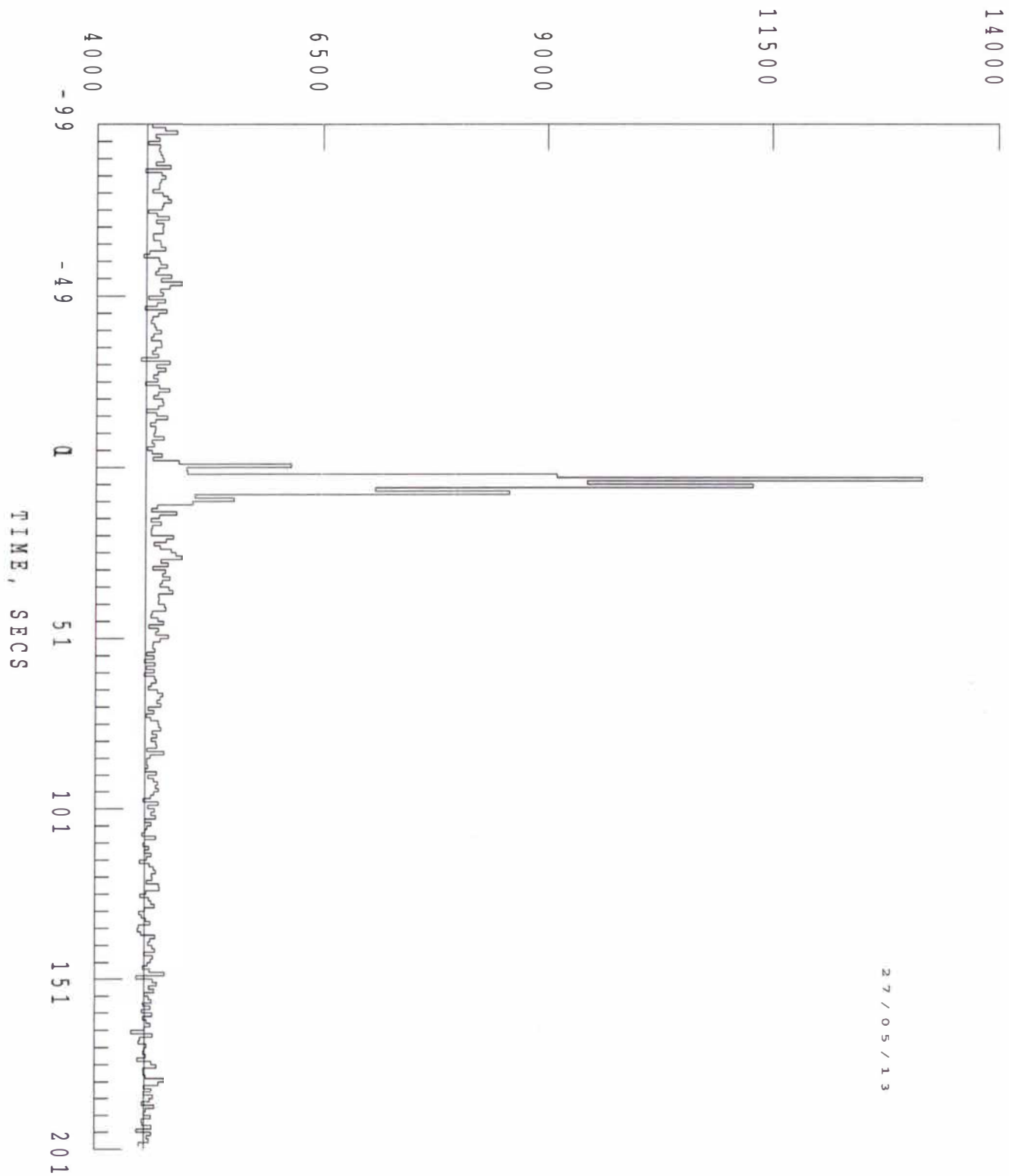
27/05/13

51686.533

A

50 - 240 keV

COUNTS/1.000 S



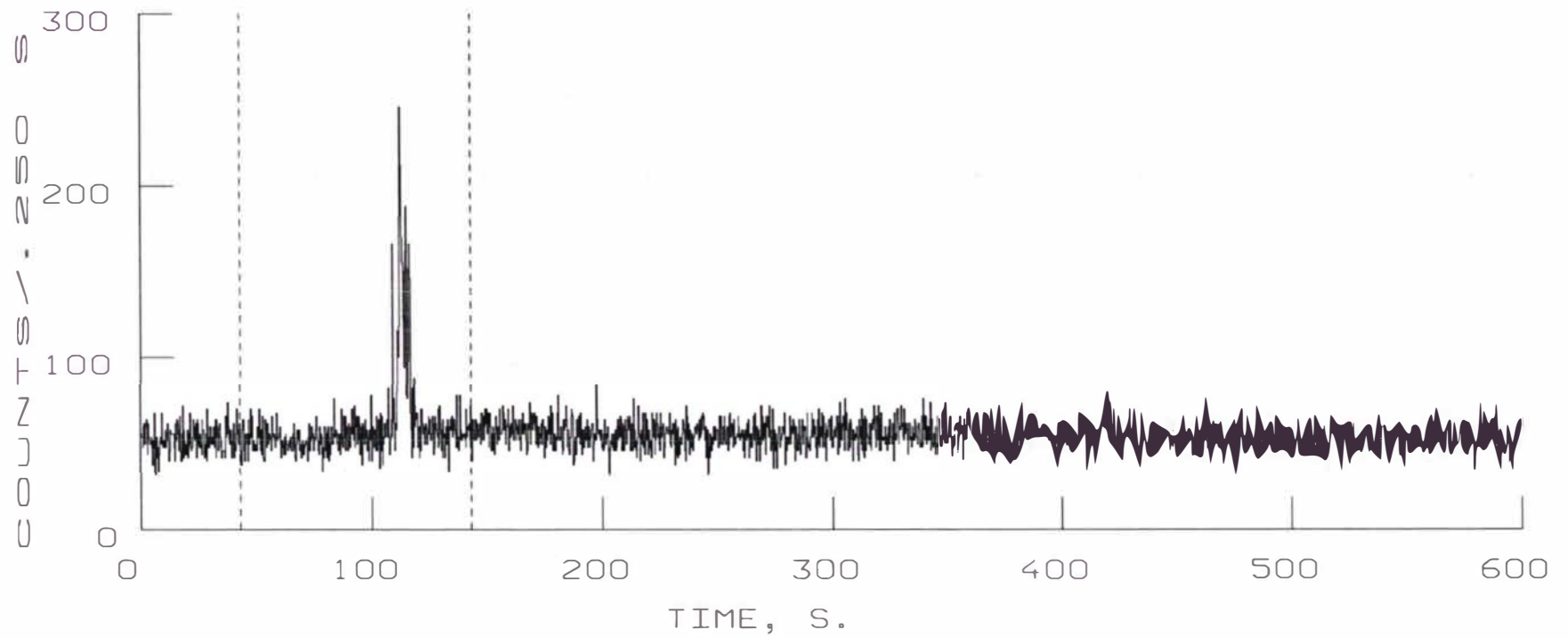
MS01 HEND

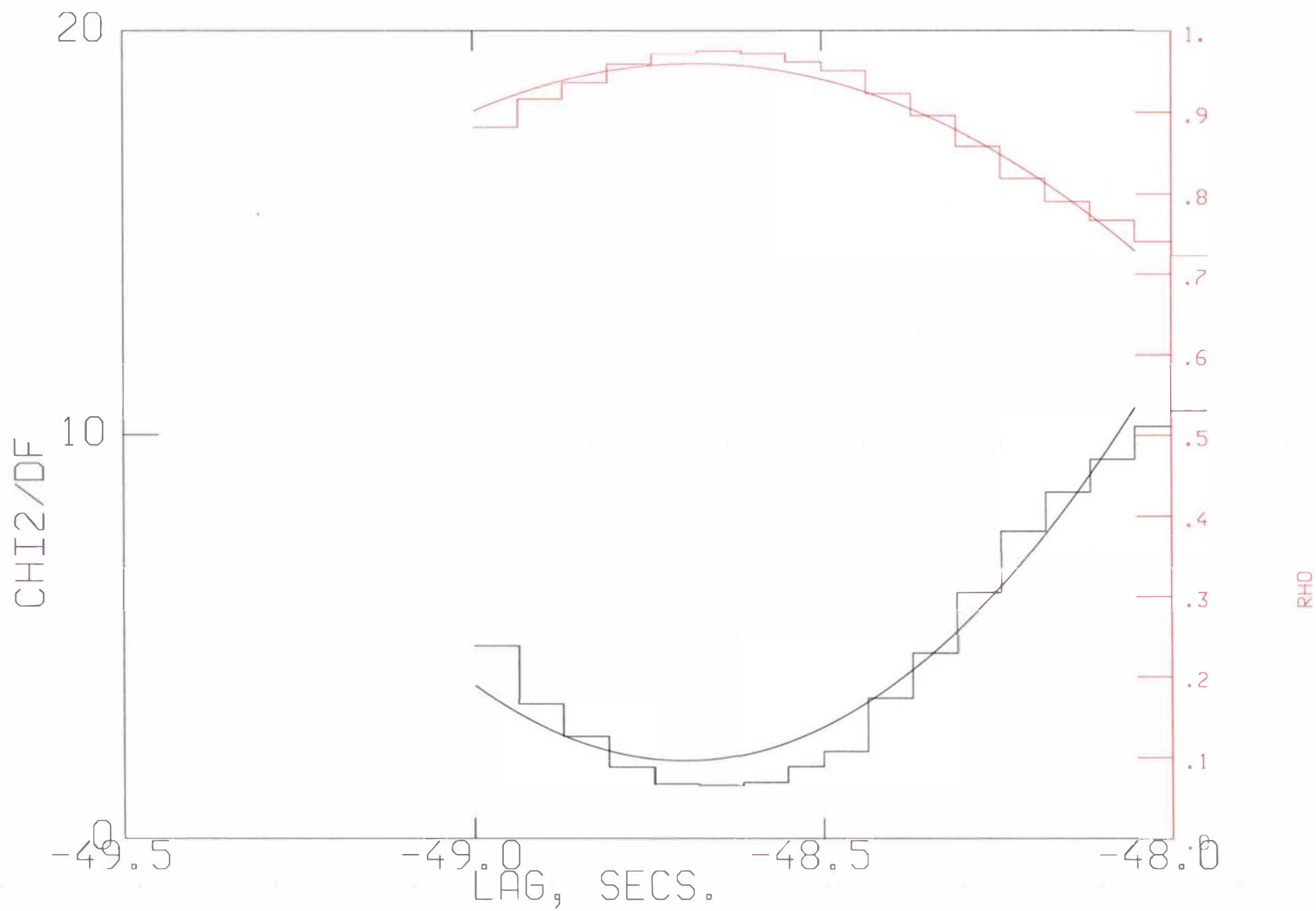
24/02/2014

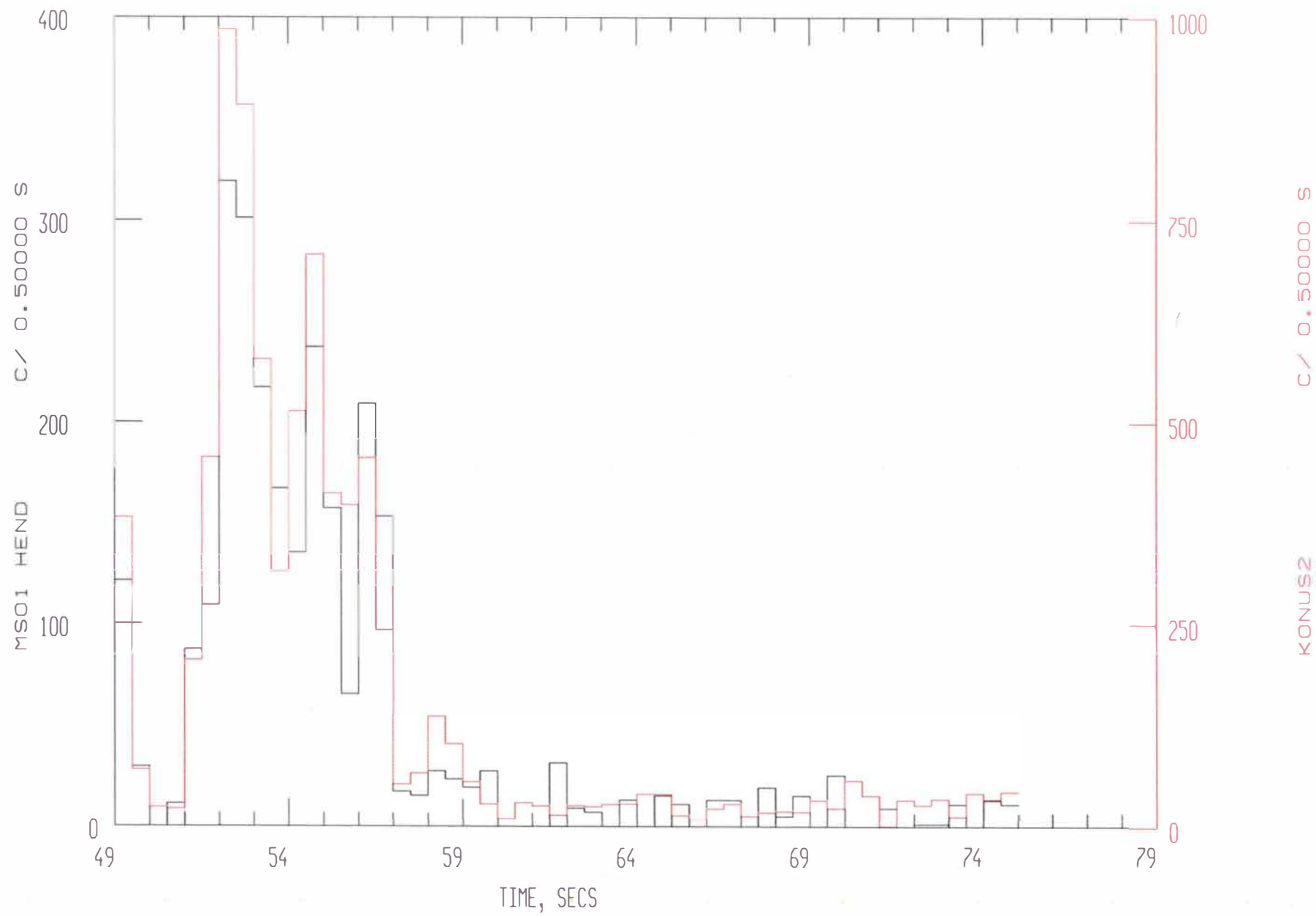
27/05/2013 52031.672 s

50-3000 keV

N= 10 M=80
>4.0 SIGMA FLUCTUATIONS





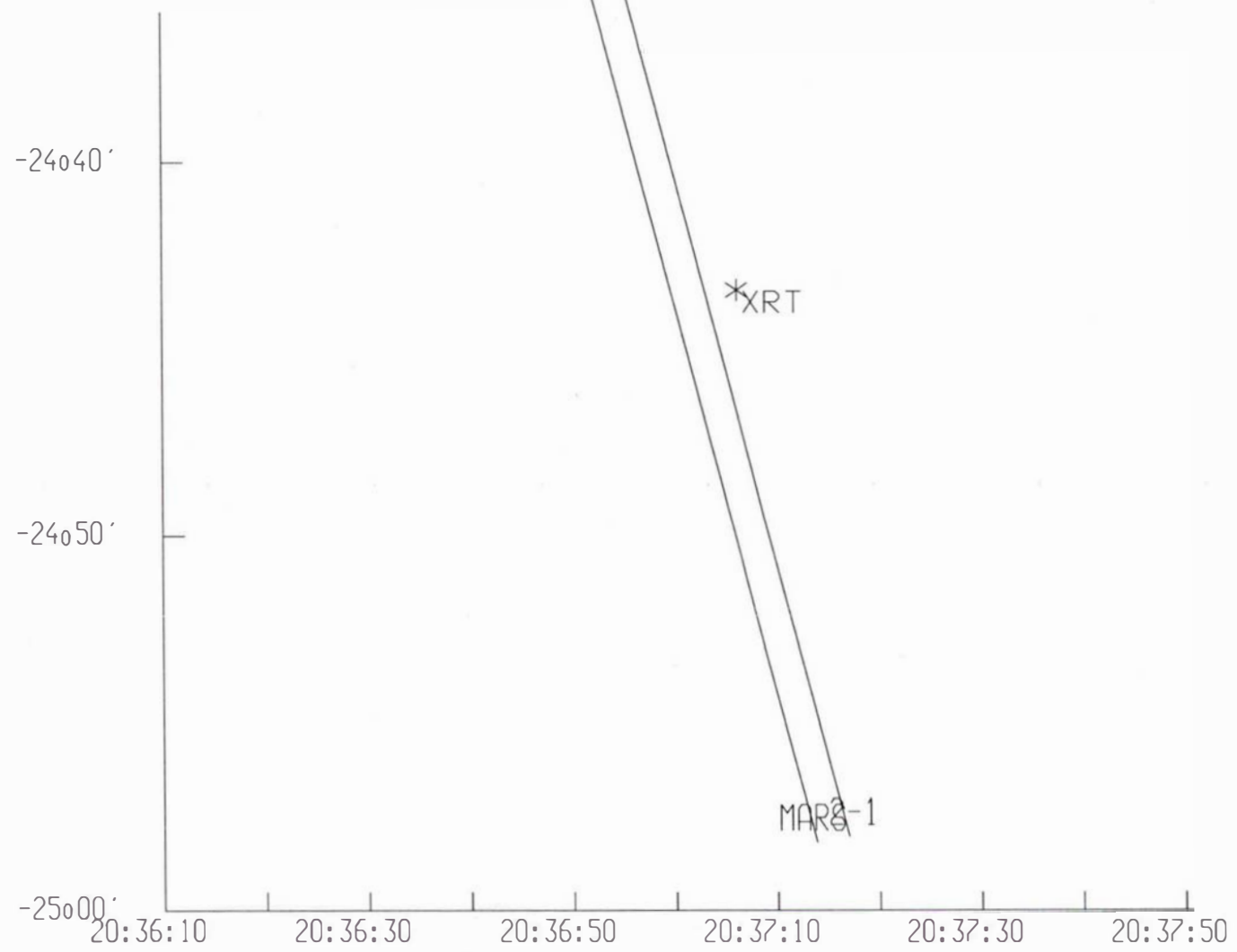


EVENT OF MAY 27, 2013 14:28

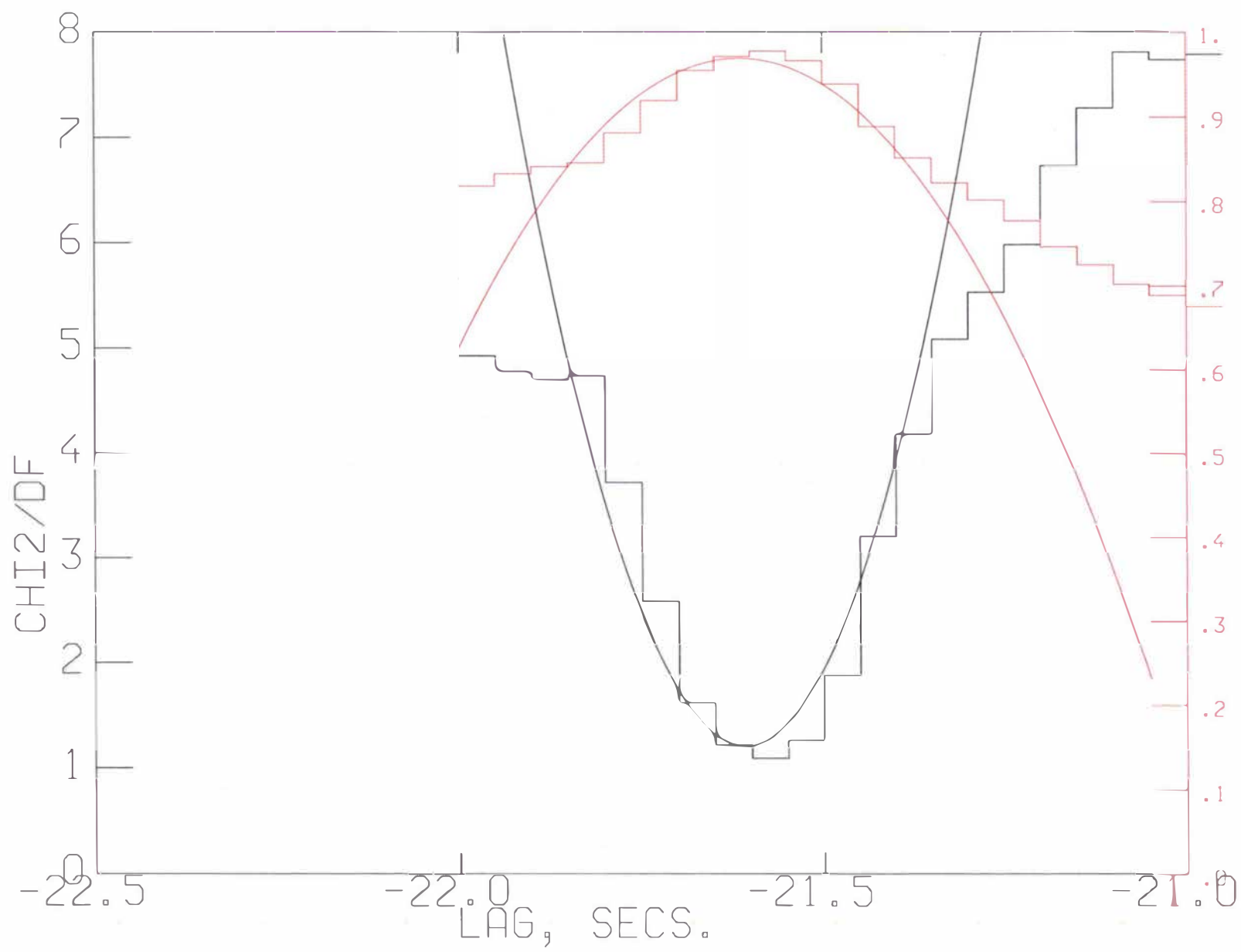
24/02/2014

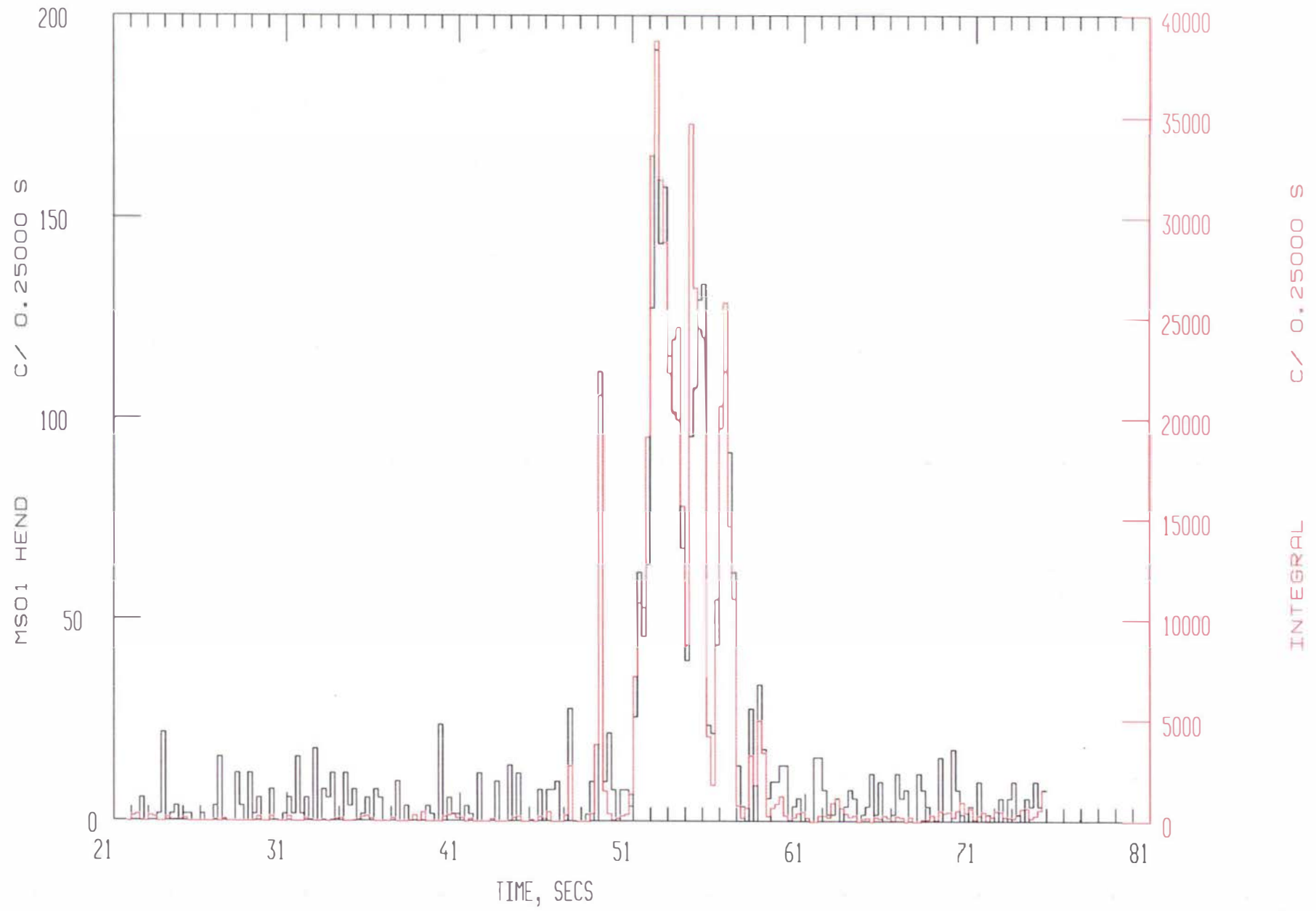
N-N = CORRELATION BETWEEN SATELLITES N AND N
EARTH--N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 MO 2 KONUS2

DECLINATION



RIGHT ASCENSION



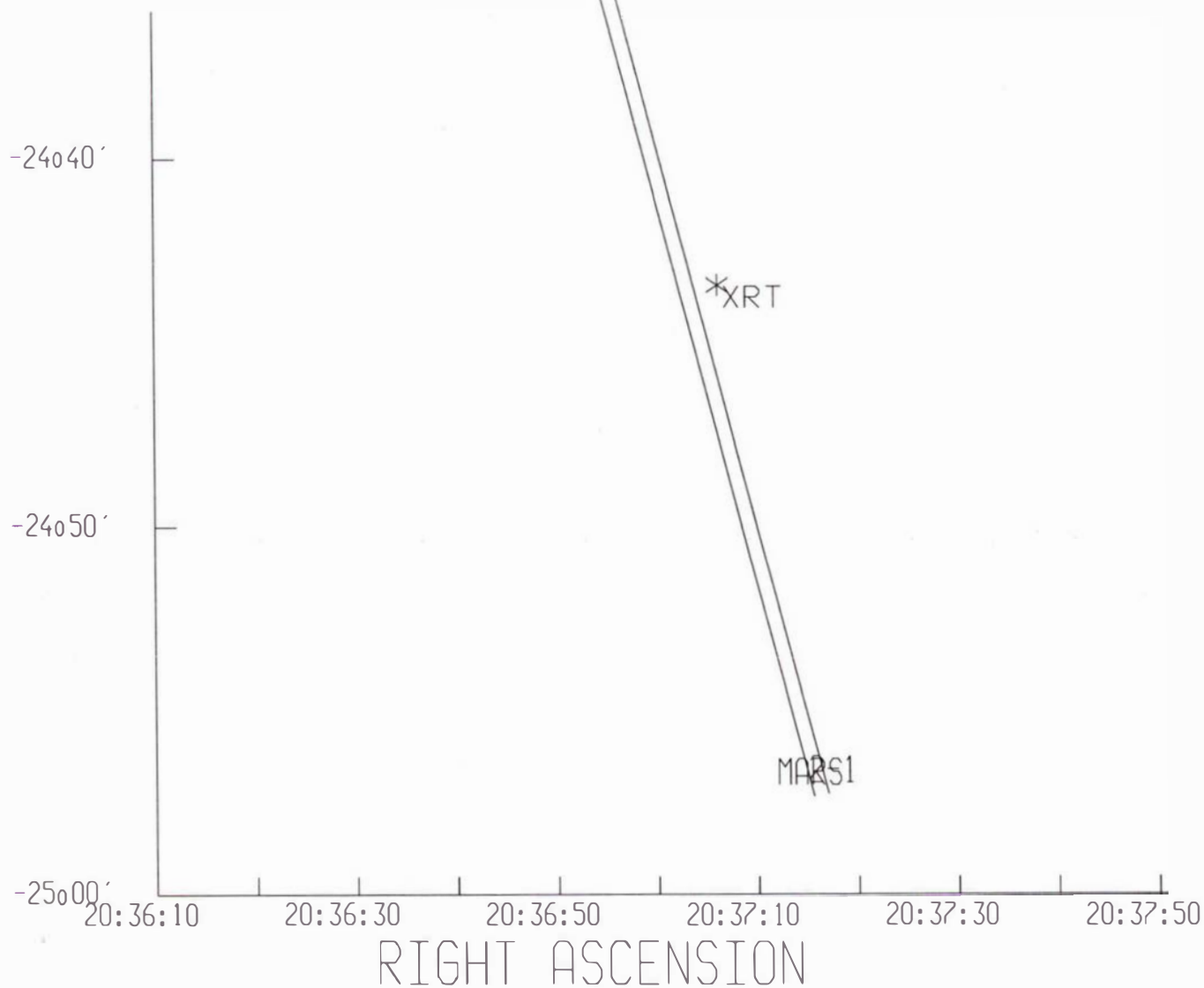


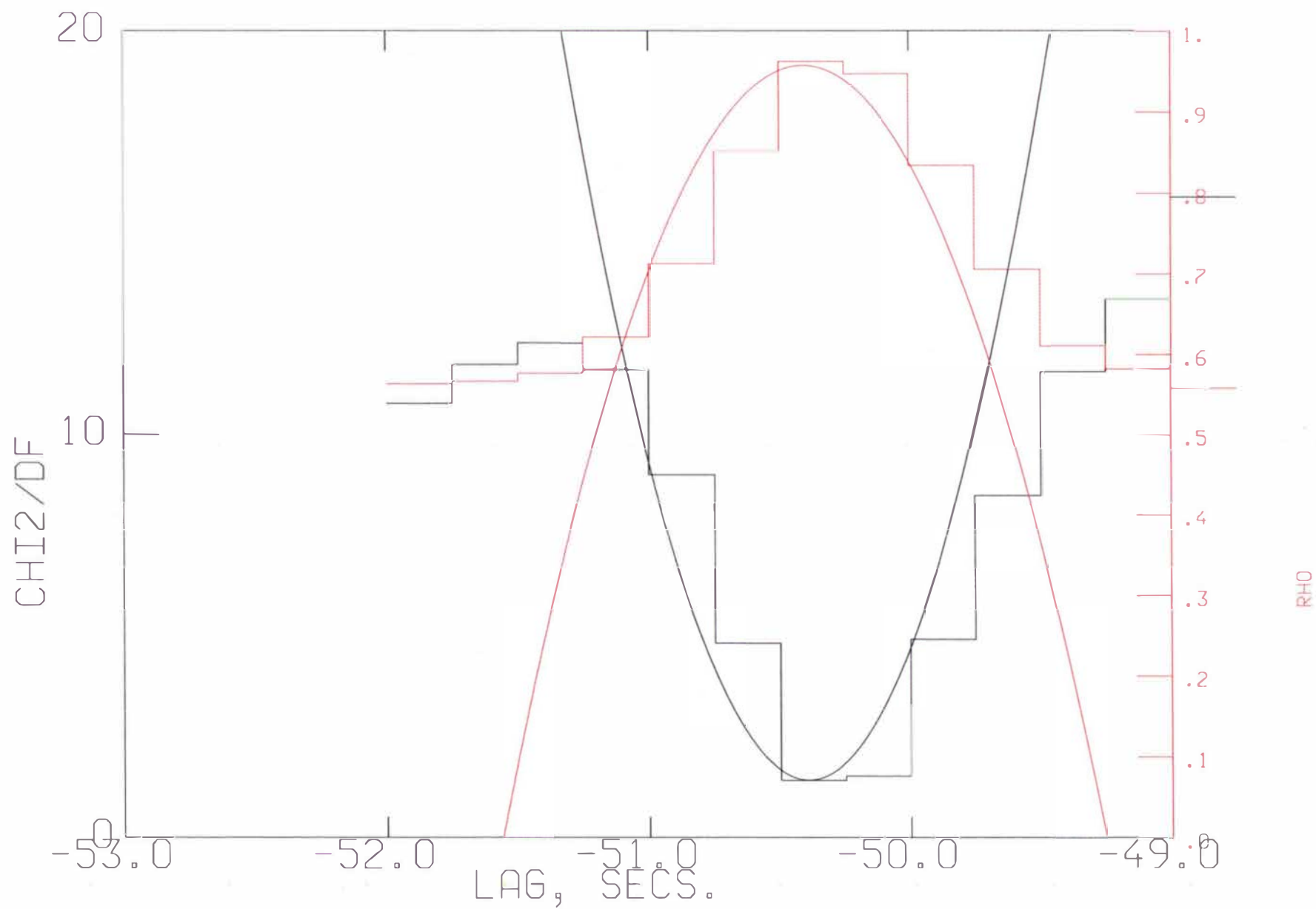
EVENT OF MAY 27, 2013 14:28

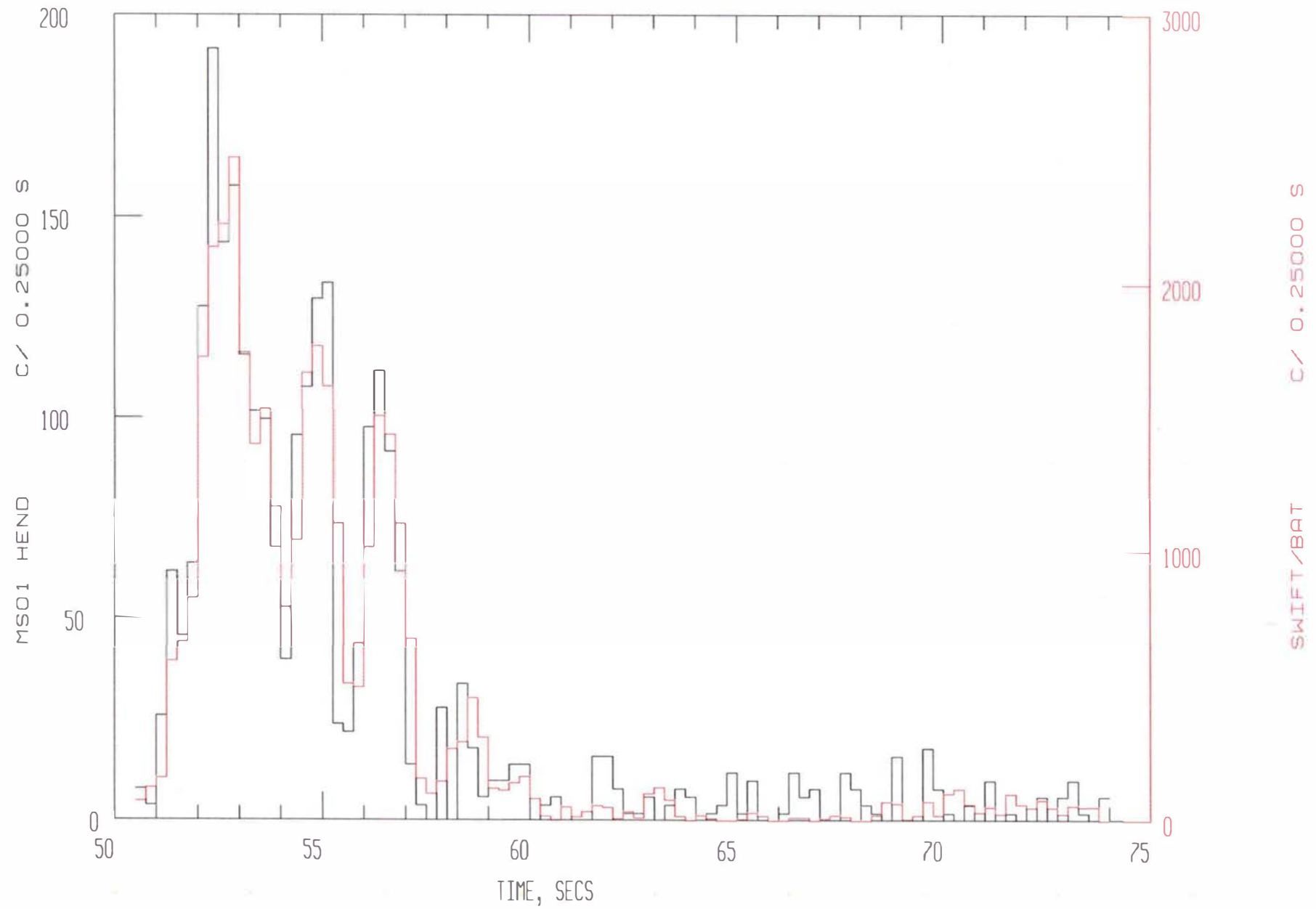
24/02/2014

N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 MO 2 INTEGRAL

DECLINATION





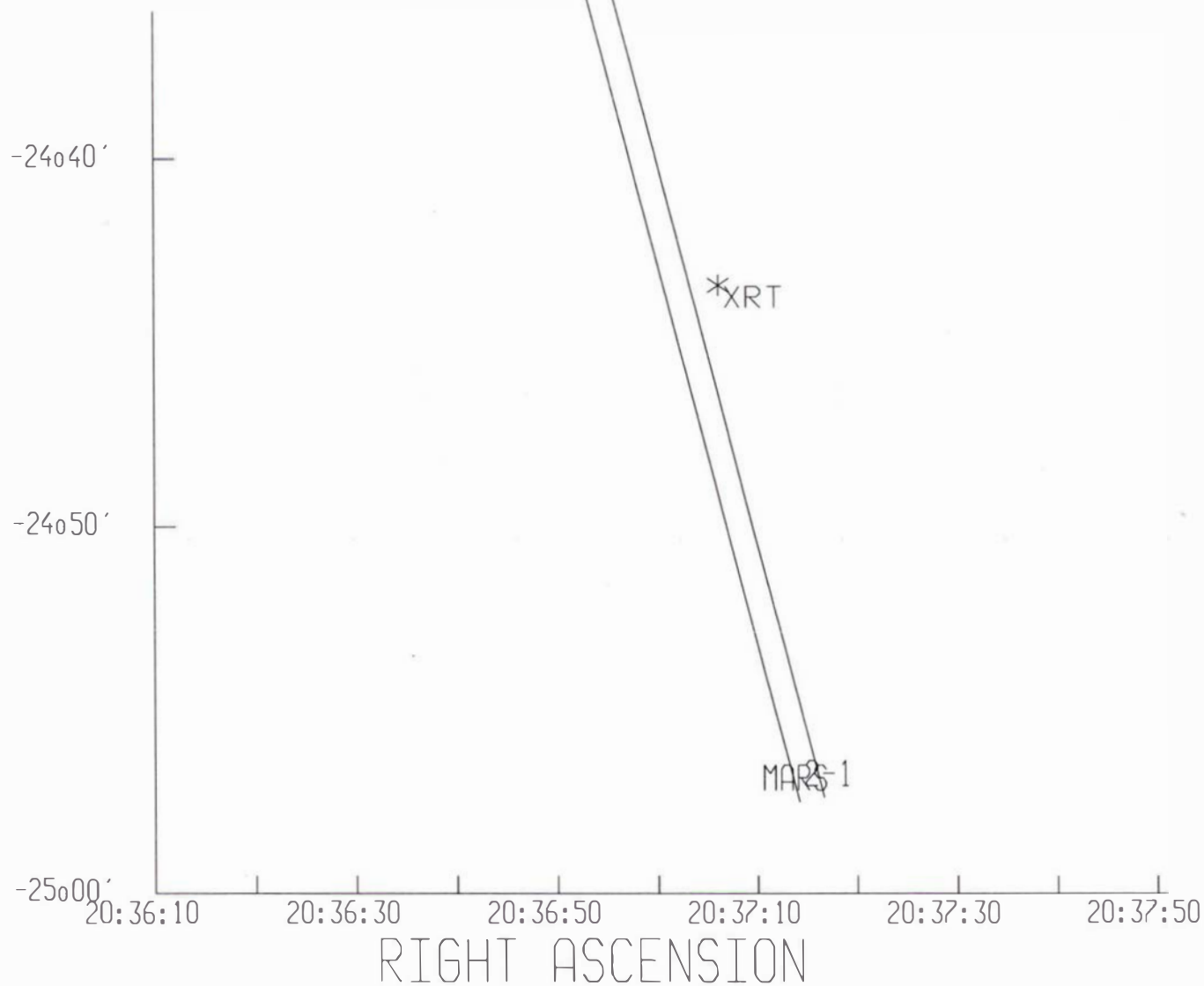


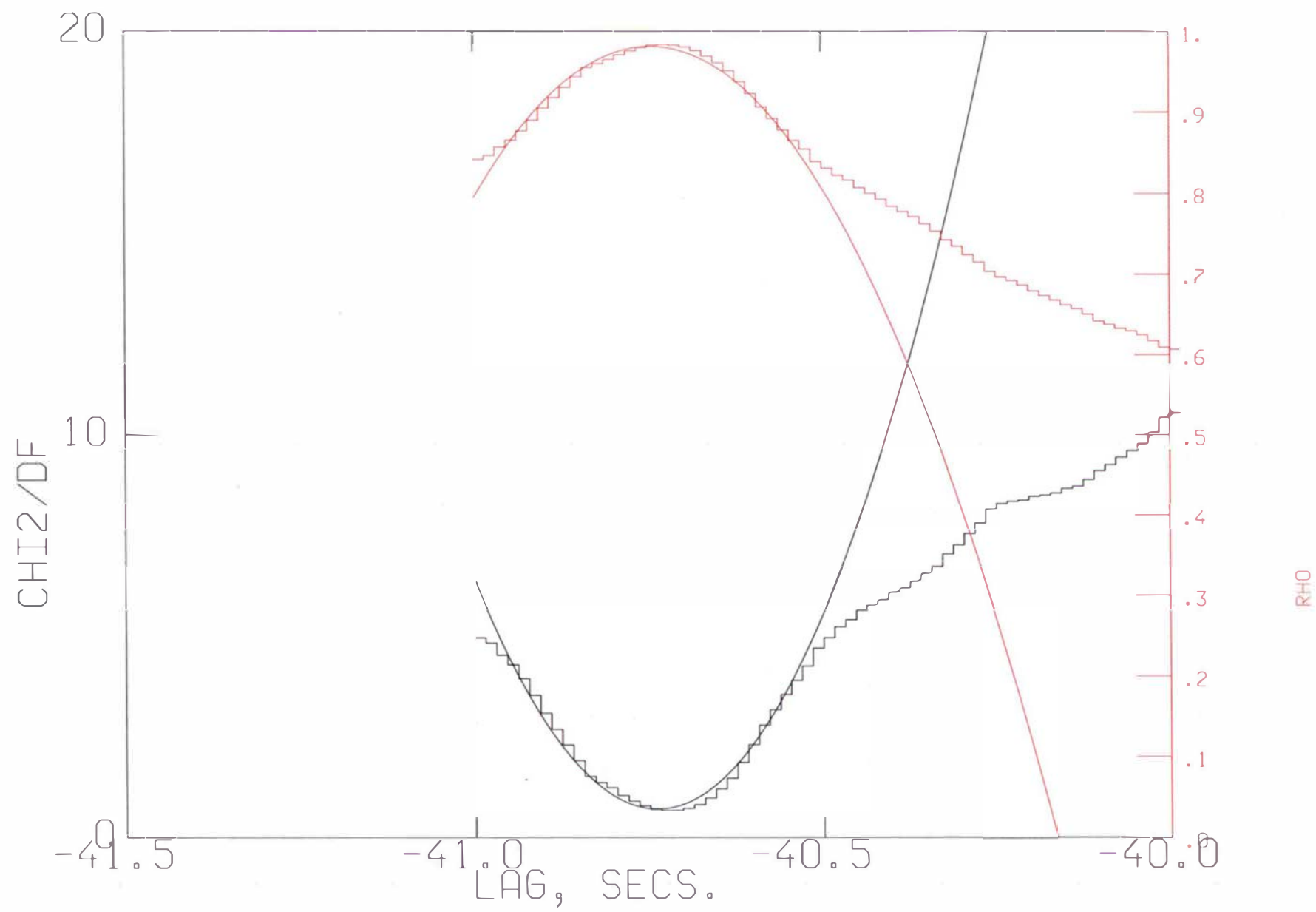
EVENT OF MAY 27, 2013 14:28

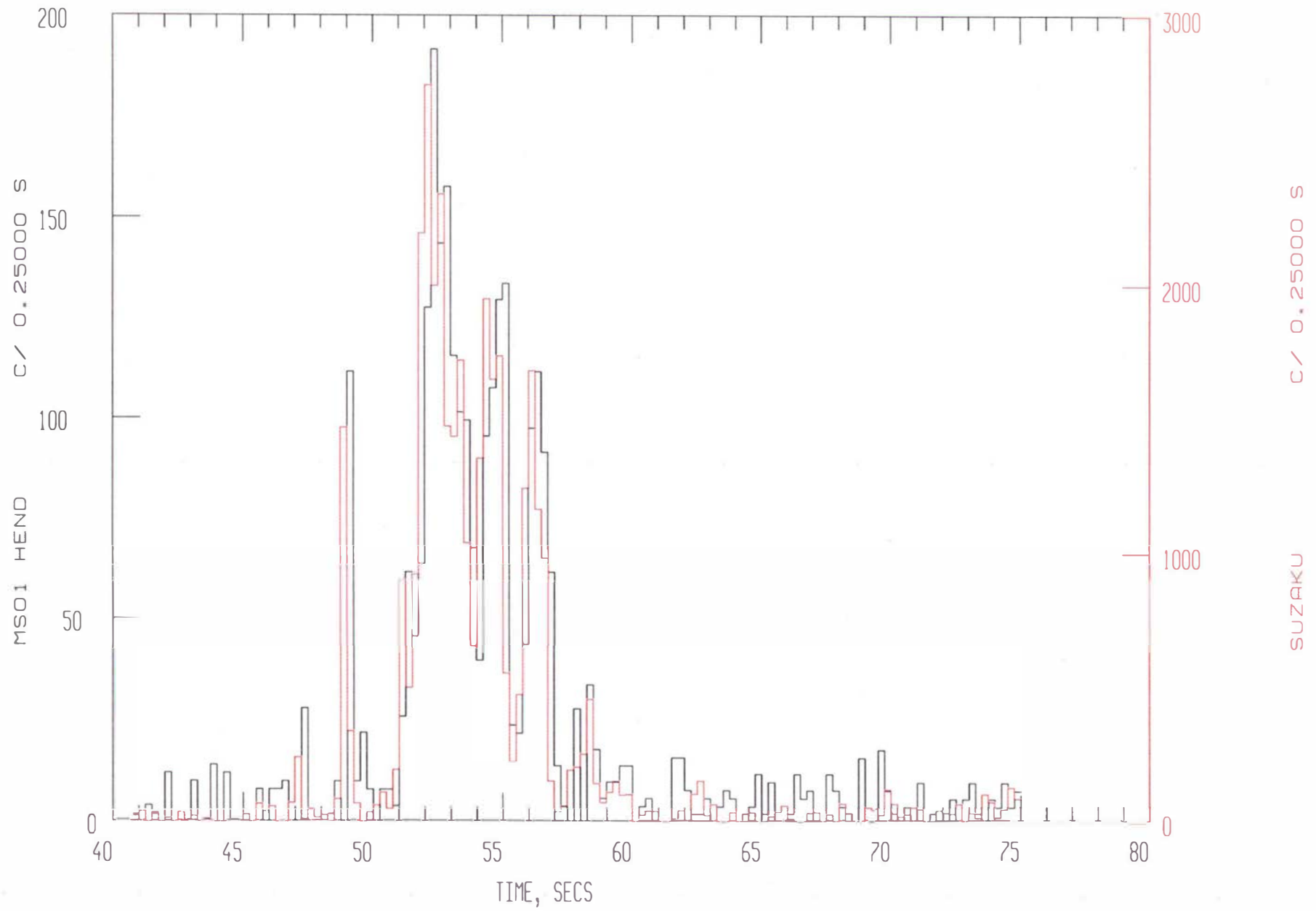
24/02/2014

N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 MO 2 SWIFT

DECLINATION





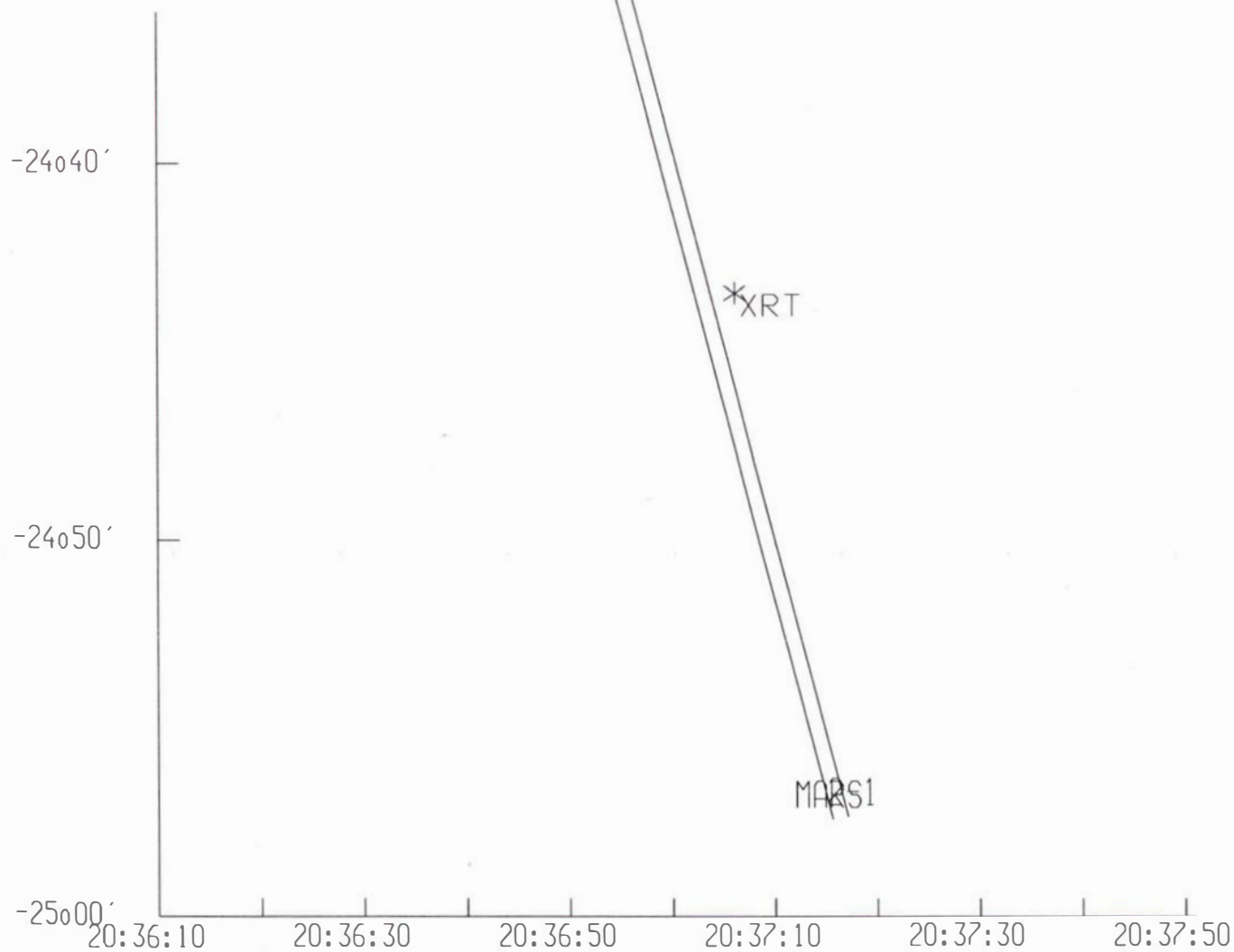


EVENT OF MAY 27, 2013 14:28

24/02/2014

N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S-SUN
E=ECLIPTIC G=GALACTIC EQUATOR
1 MO
2 SUZAKU

DECLINATION



RIGHT ASCENSION

GLAST

27/05/13

54134.542

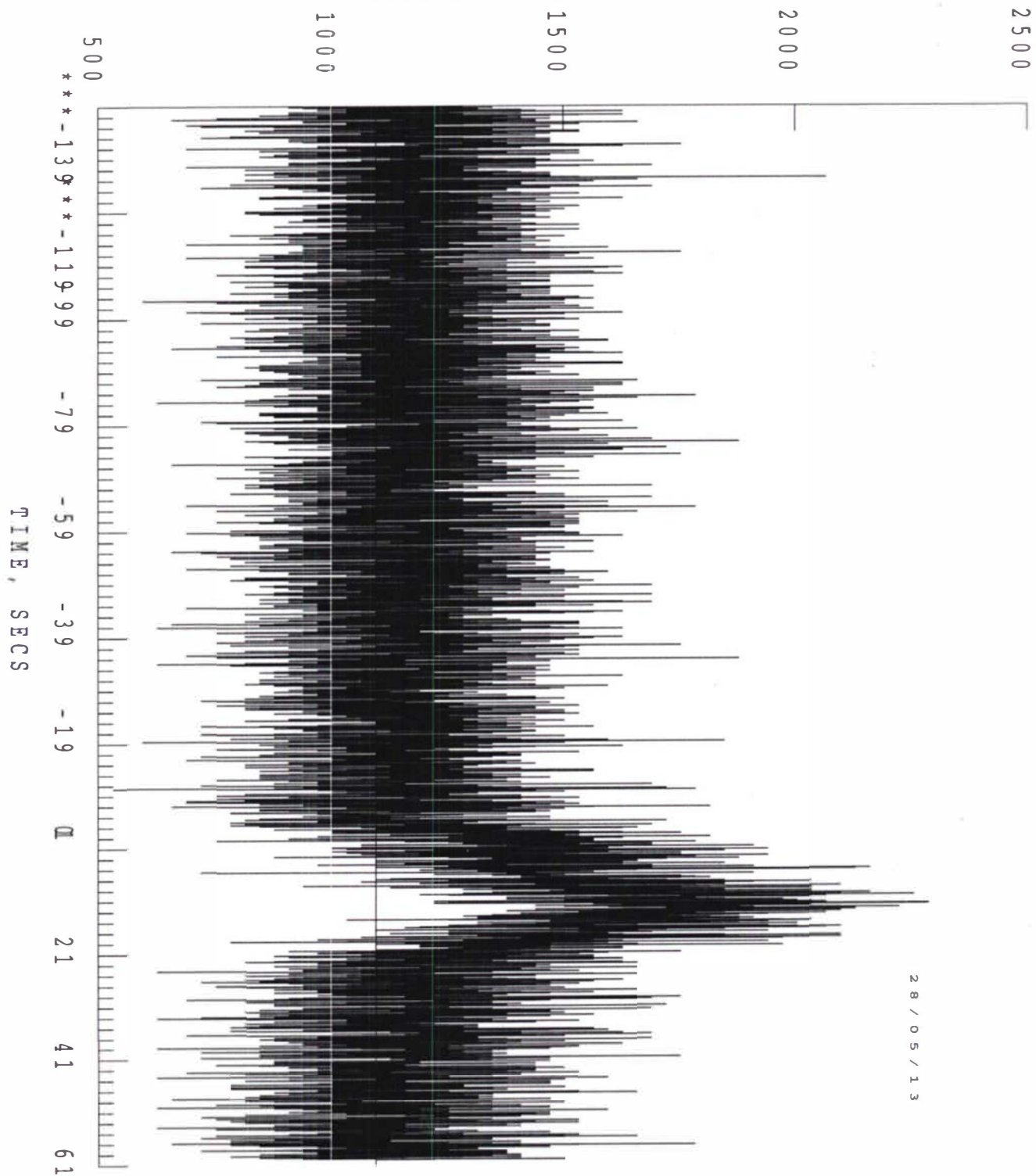
15:02:14

B

26 - 293 keV

175.79 -2.52 3.08

COUNTS/0.032 S



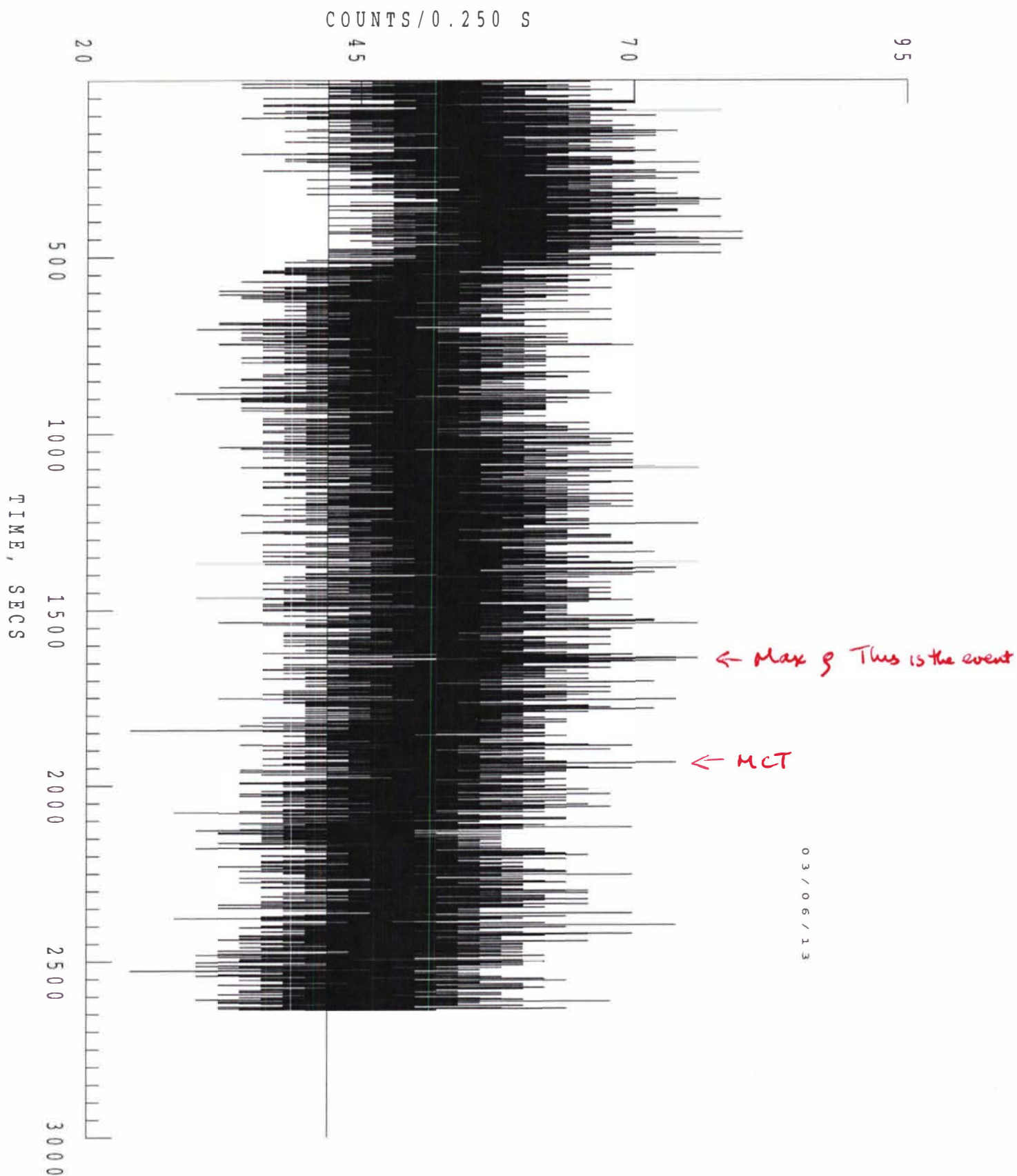
MS01

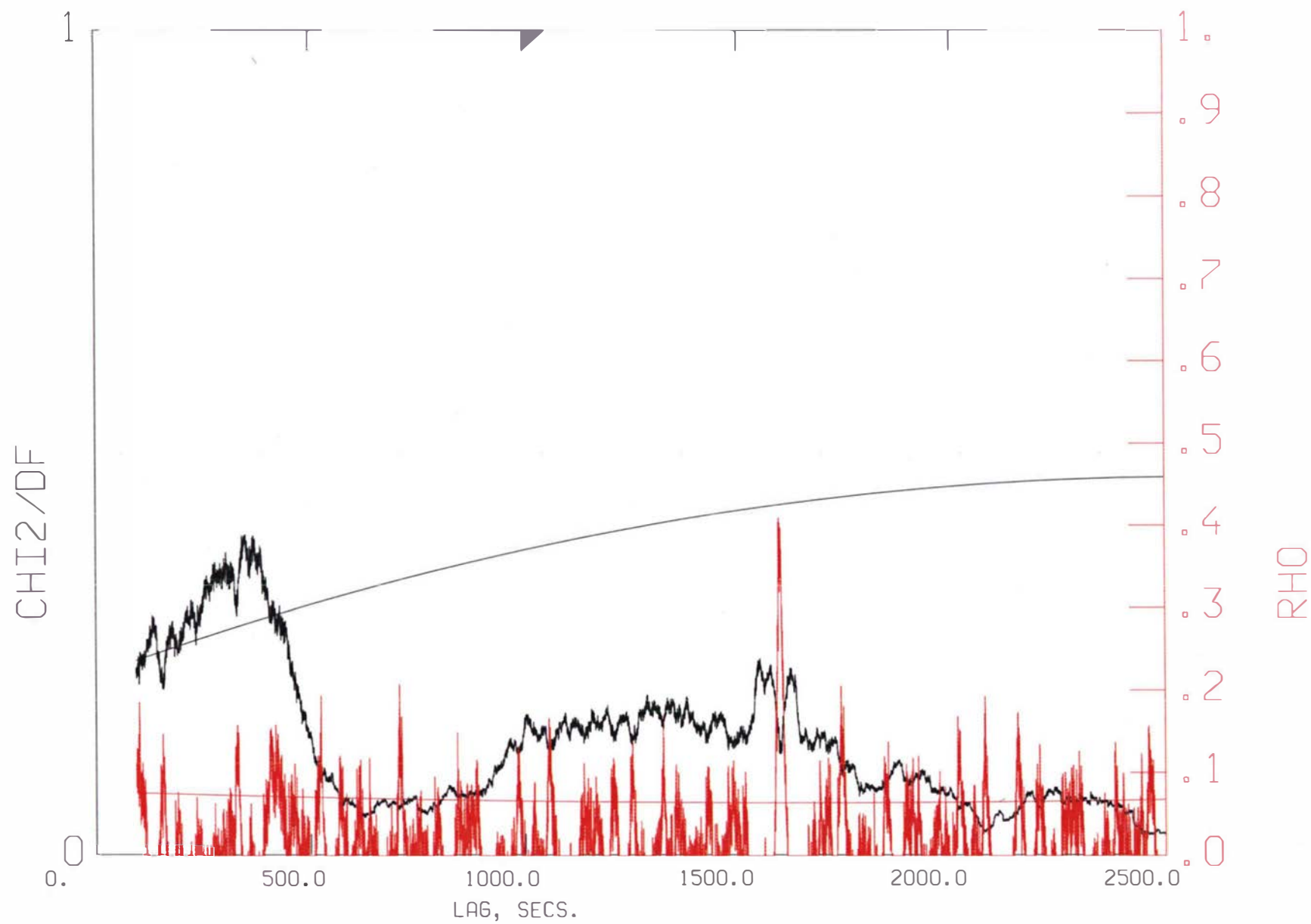
27/05/13

52811.667

B

50 - 3000 keV





From williams@gammaburst.ssl.berkeley.edu Sat Jun 1 23:01:55 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
~Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Sat, 1 Jun 2013 23:01:54 -0700 (PDT)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GLAST_20130527_54134
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 1-Jun-2013 23:00:39.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

INTEGRAL

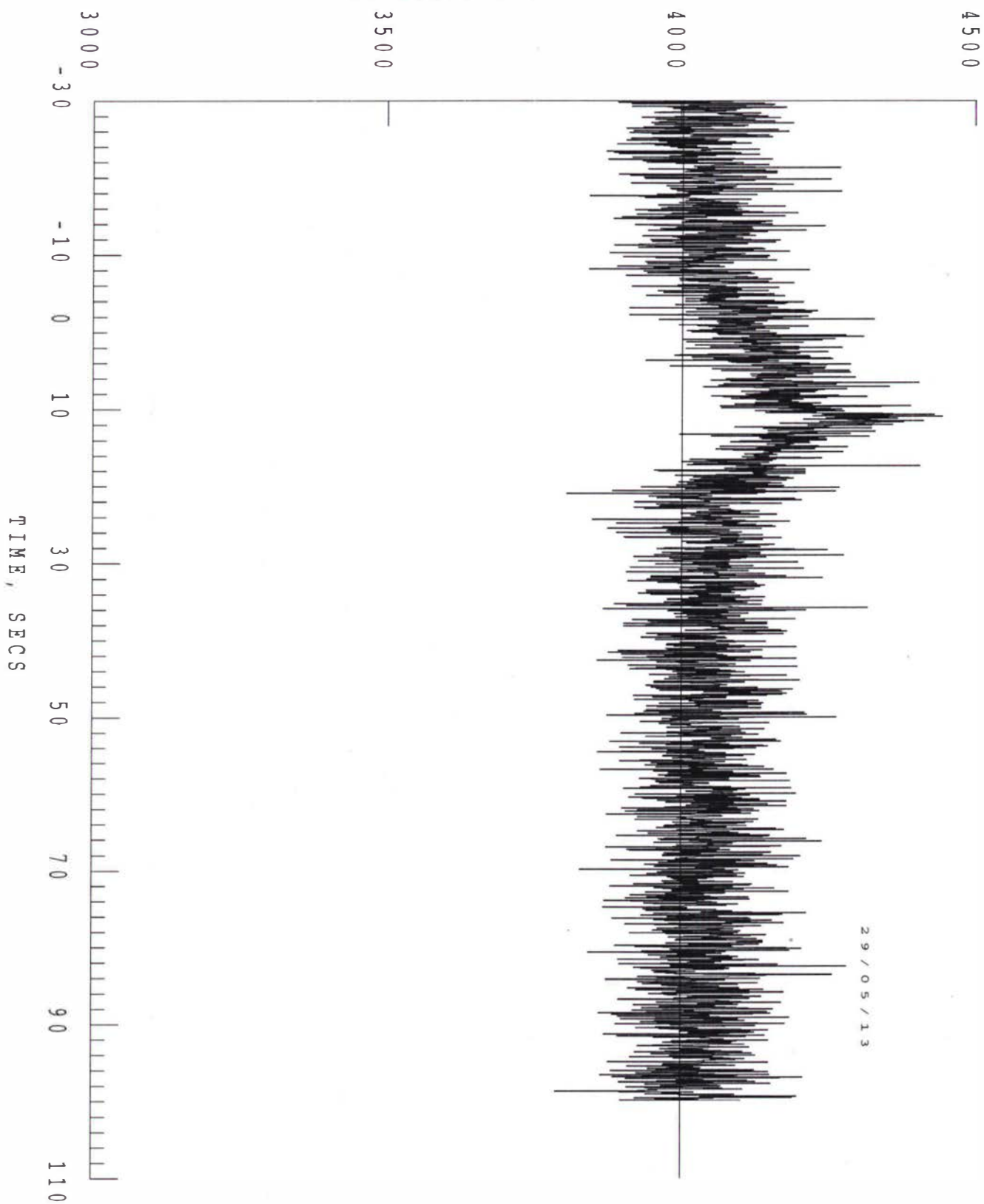
27/05/13

54134.984

13

100-10000 keV

COUNTS/0.050 S



Subject: [Ipn] BAT lightcurve for trigger at 130527_1502

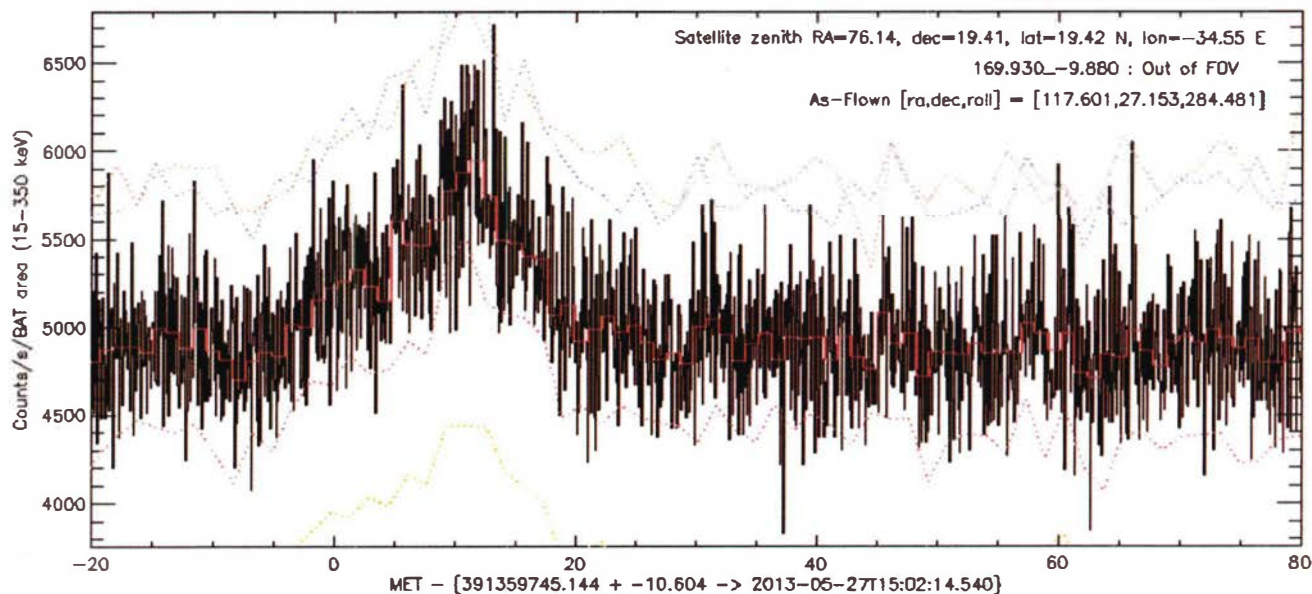
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/27/2013 2:32 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130527_1502.png



```
% /usr/local/bin/swinfo -o 391359745.144 -s 169.930_-9.880
Time(MET + UTCF -> UT): 391359745.144 + -10.604 -> 2013-05-27T15:02:14.540
YYMMDD_SOD: 130527_54134.540 DOY=147
Swift Zenith(RA,dec): 76.14, 19.41
Swift Location(lon,lat,alt): -34.55 E, 19.42 N, 575 km
Obs Sequence Number: 00048412001
Obs Target Name: 1RXS_J075026.6+270726
Obs Date and Times: 2013-05-27 14:58:51 - 15:12:47
Obs Pointing(ra,dec,roll): 117.601, 27.153, 284.48
169.930_-9.880_imageloc (boresight_dist, angle): (63, 104)
169.930_-9.880_exposure (cm^2 cos adjusted): 0
169.930_-9.880_altitude: 17 (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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130527_1502.png

18.0 KB

/tmp/130527_1502_bat64ms_ipn

87.0 KB

B

29/10/13

MESSENGER

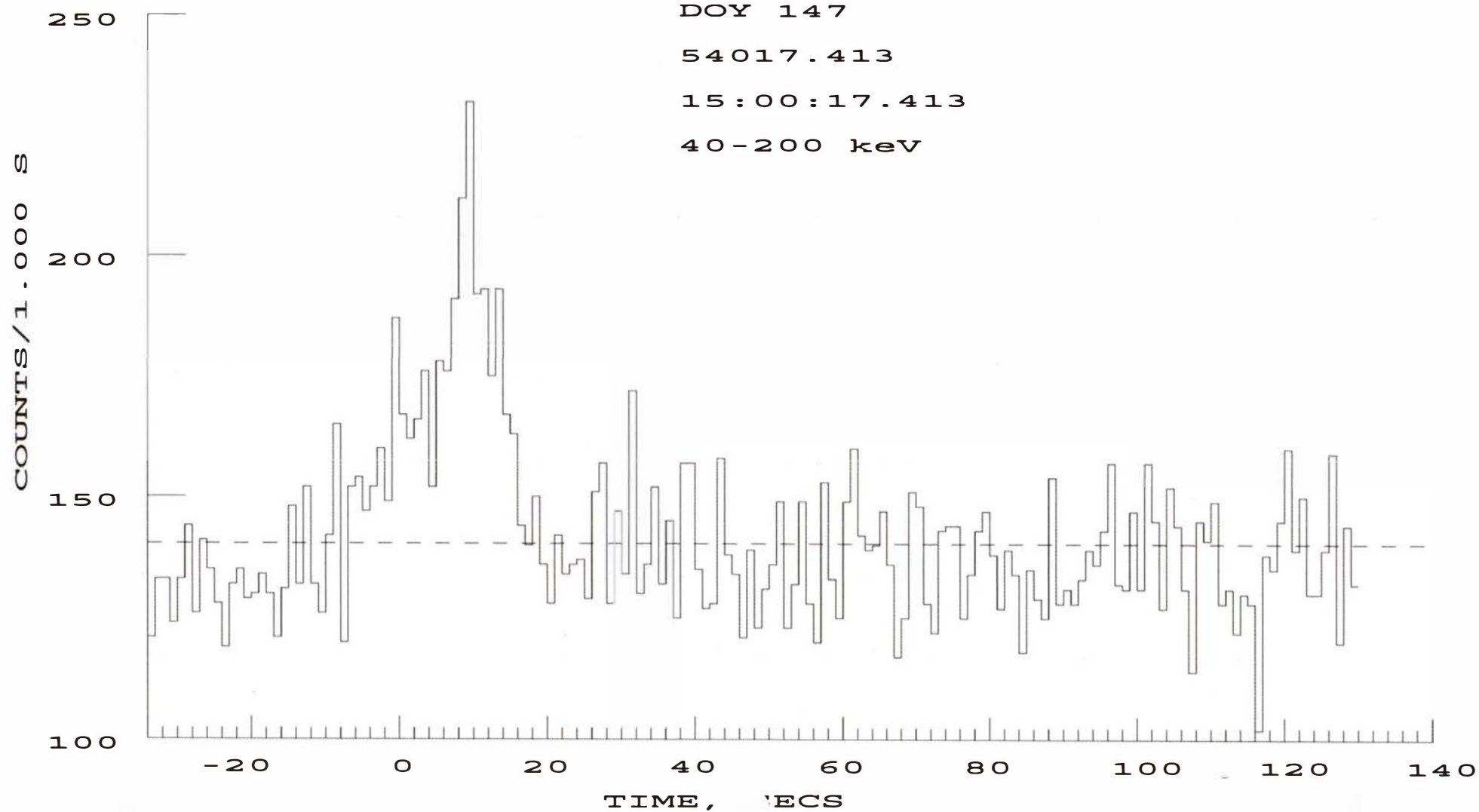
27/05/13

DOY 147

54017.413

15:00:17.413

40-200 keV



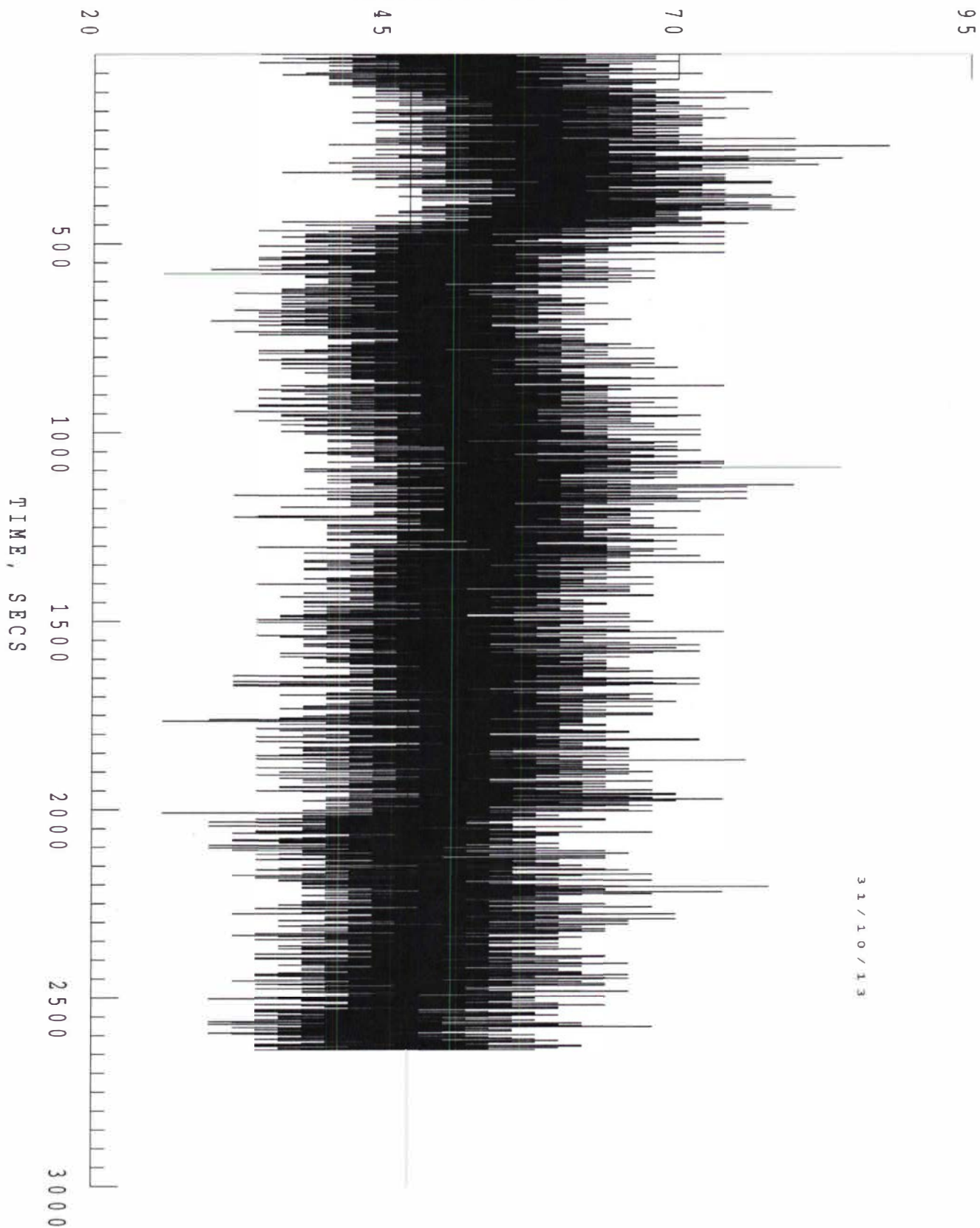
MS01

27/05/13

74171.307

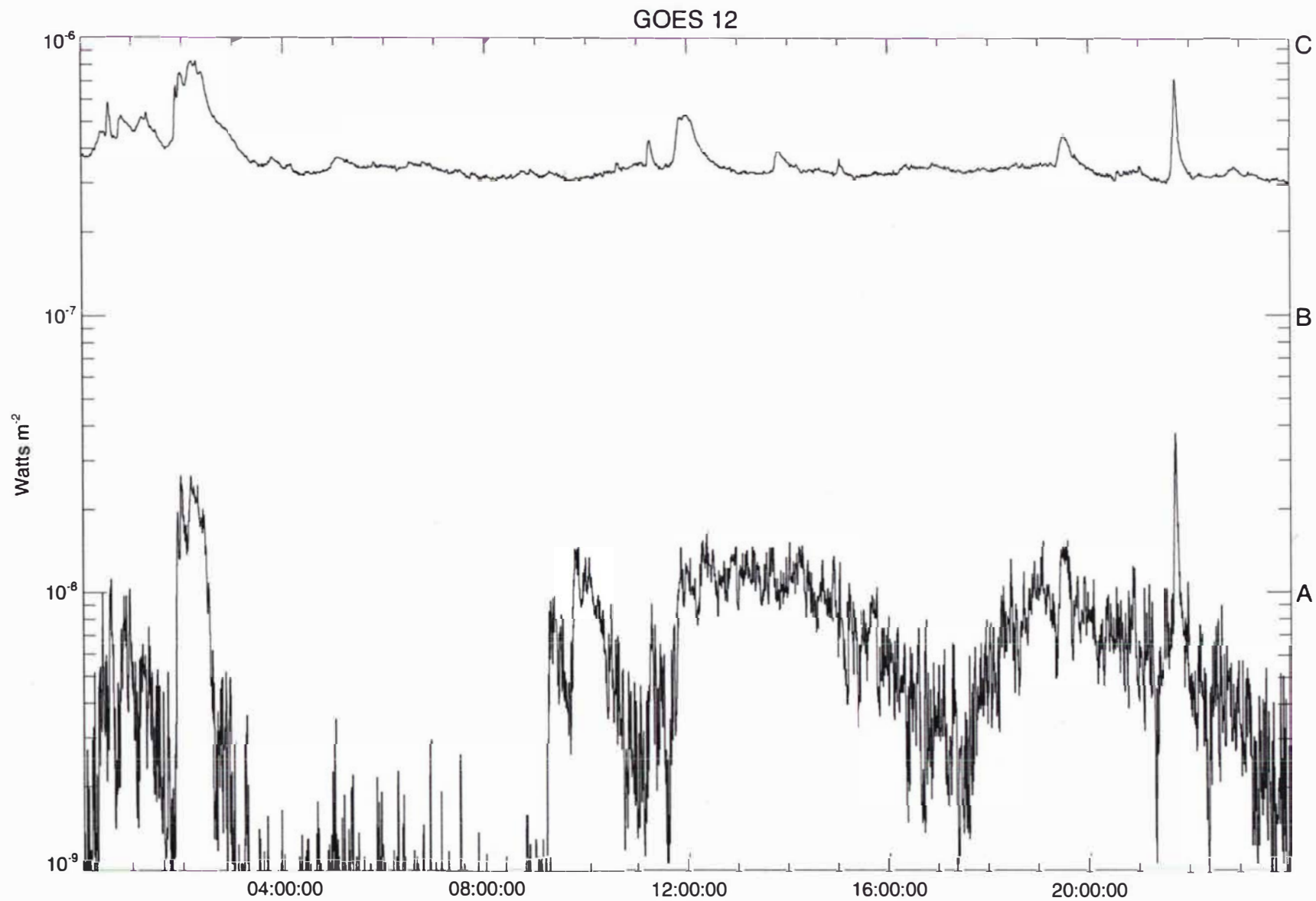
50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Thu Oct 31 04:29:53 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Thu, 31 Oct 2013 04:29:52 -0800 (PST)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20130527_75501
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 31-Oct-2013 05:28:35.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.500000
Full time range in SAA
No Eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry



Data Start: 13/05/27, 0000:12

Plot created: 13/05/30, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

GLAST

28/05/13

43471.329

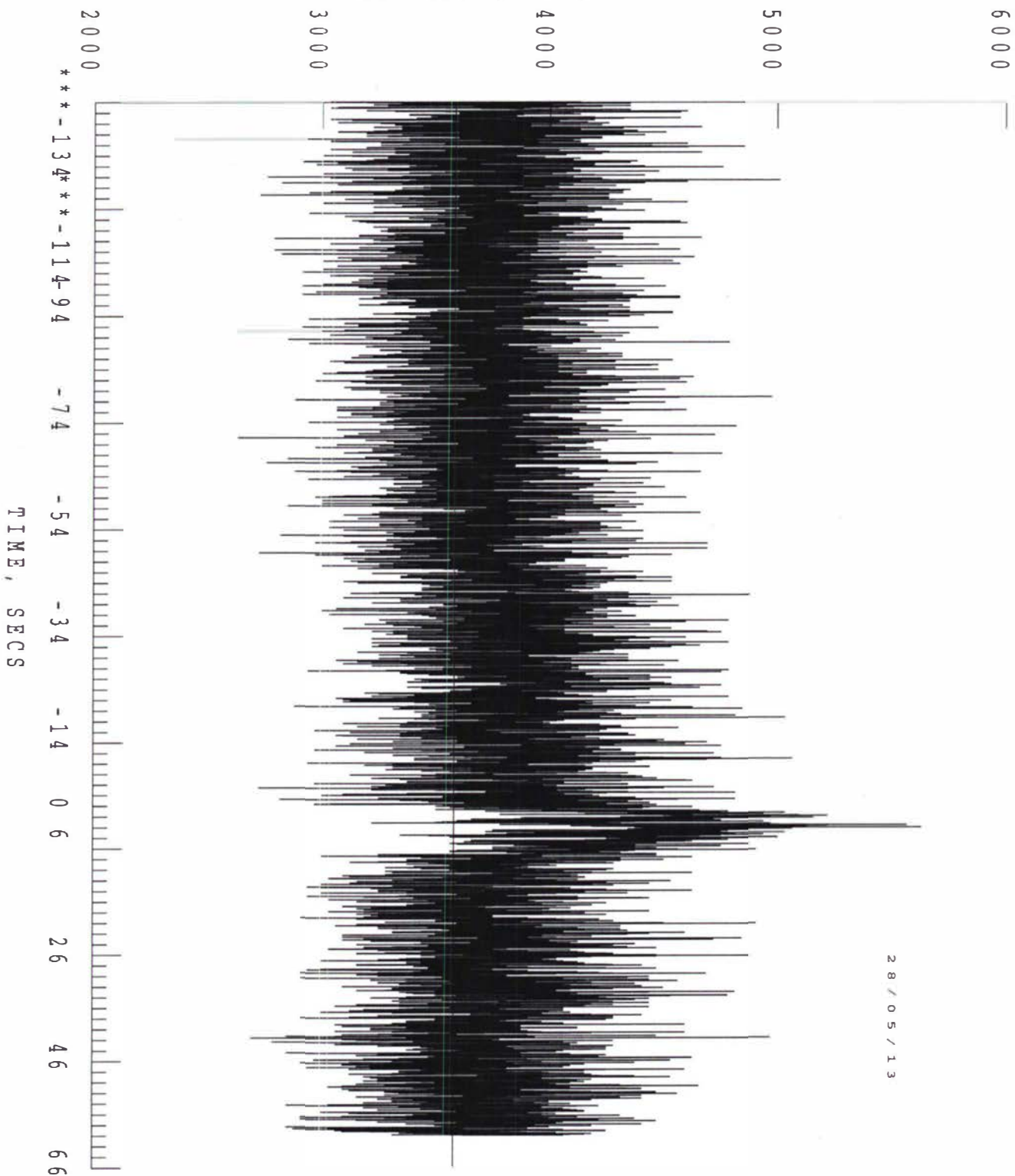
12:04:31

A

26- 293 keV

352.7 27.8 5.5

COUNTS/0.032 S



MS01

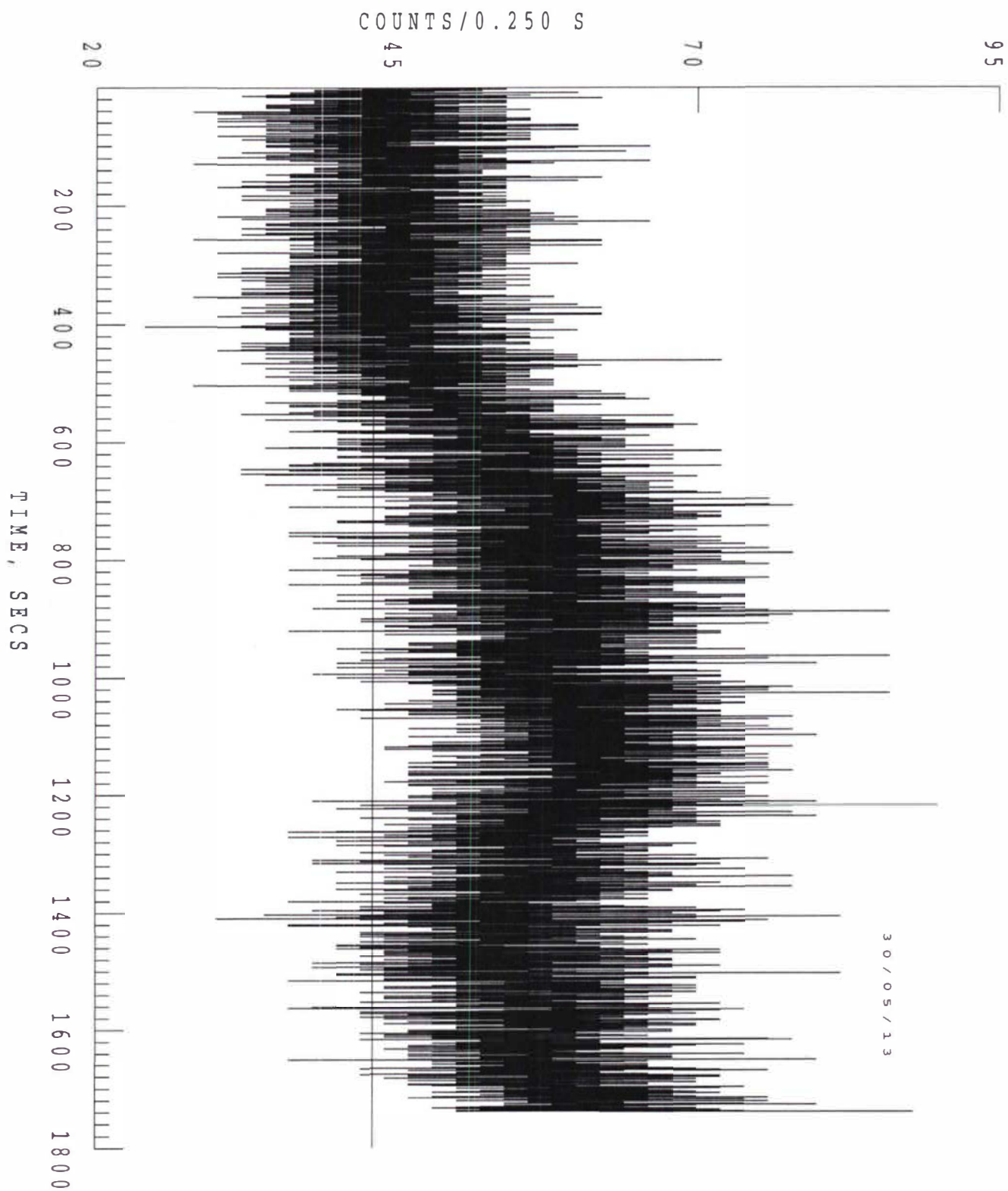
28/05/13

43030.386

A

50 - 3000 keV

HCT is 42811



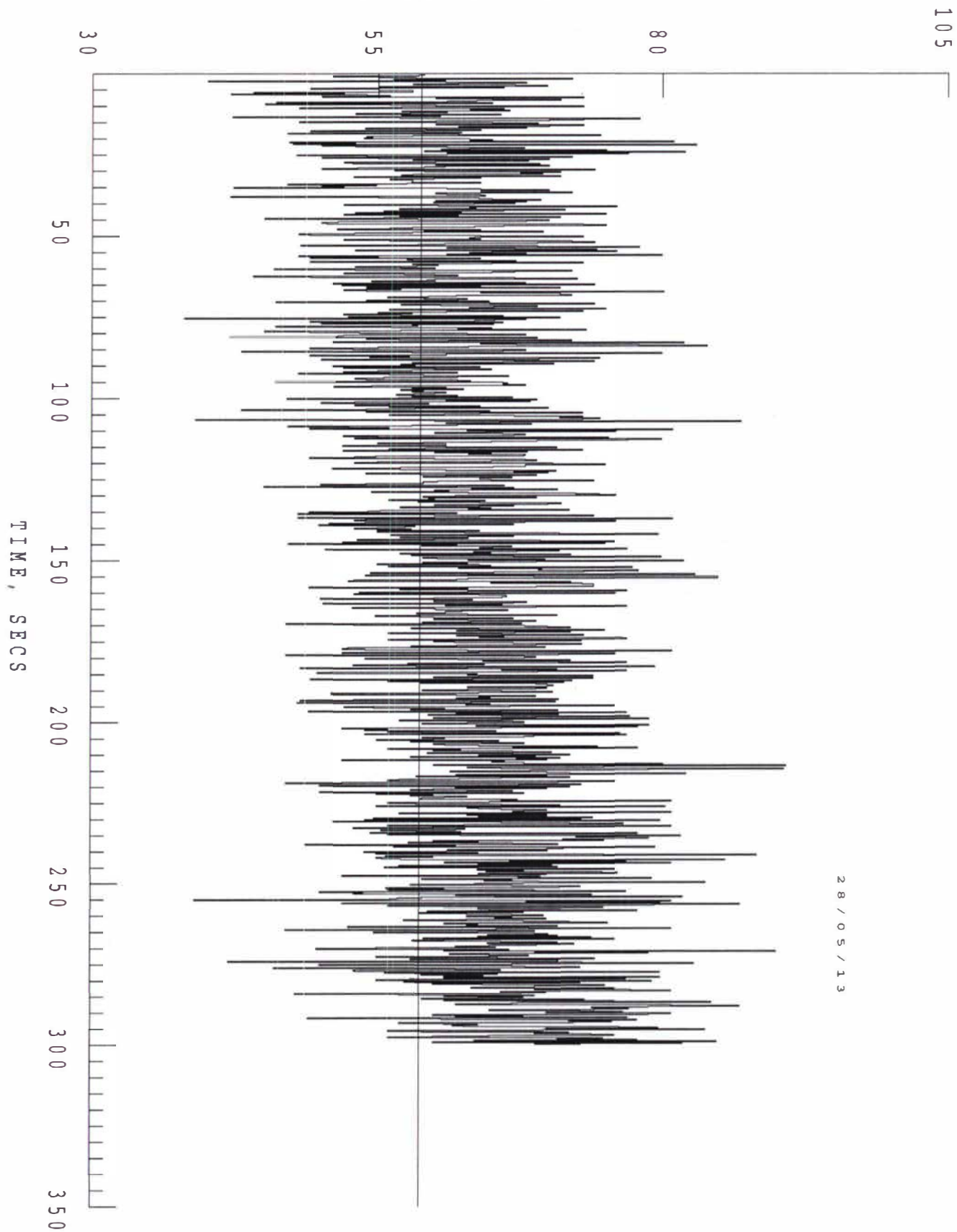
HESSI

28/05/13 43321.000 (GLAST_20130528_43471)

A

25 - 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 130528_1204

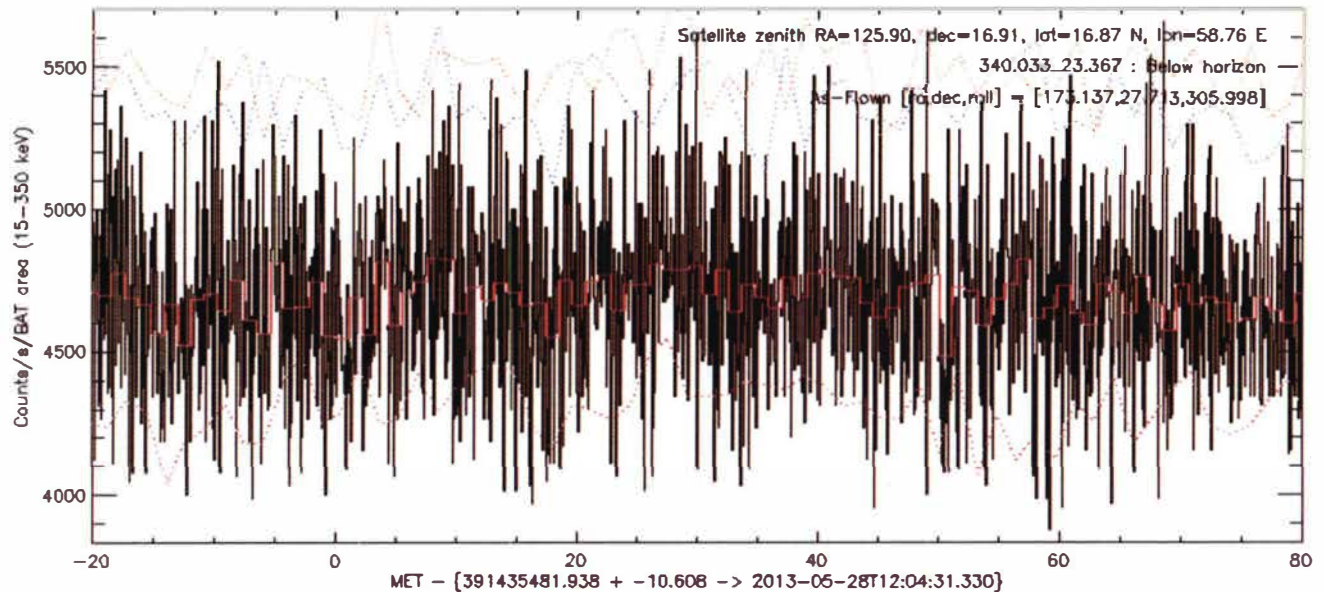
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/28/2013 1:40 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/130528_1204.png



```
% /usr/local/bin/swinfo -o 391435481.938 -s 340.033_23.367
Time(MET + UTC -> UT): 391435481.938 + -10.608 -> 2013-05-28T12:04:31.330
YYMMDD_SOD: 130528_43471.330 DOY=148
Swift Zenith(RA,dec): 125.90, 16.91
Swift Location(lon,lat,alt): 58.76 E, 16.87 N, 581 km
Obs Sequence Number: 00554620075
Obs Target Name: GRB 130427A
Obs Date and Times: 2013-05-28 11:55:51 - 12:25:48
Obs Pointing(ra,dec,roll): 173.137, 27.713, 306.00
340.033_23.367_imageloc (boresight_dist, angle): (127, -21)
340.033_23.367_exposure (cm^2 cos adjusted): 0
340.033_23.367_altitude: -14 (down)
```

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

Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130528_1204_bat64ms_ipn

27 bytes

/tmp/130528_1204.png

19.9 KB



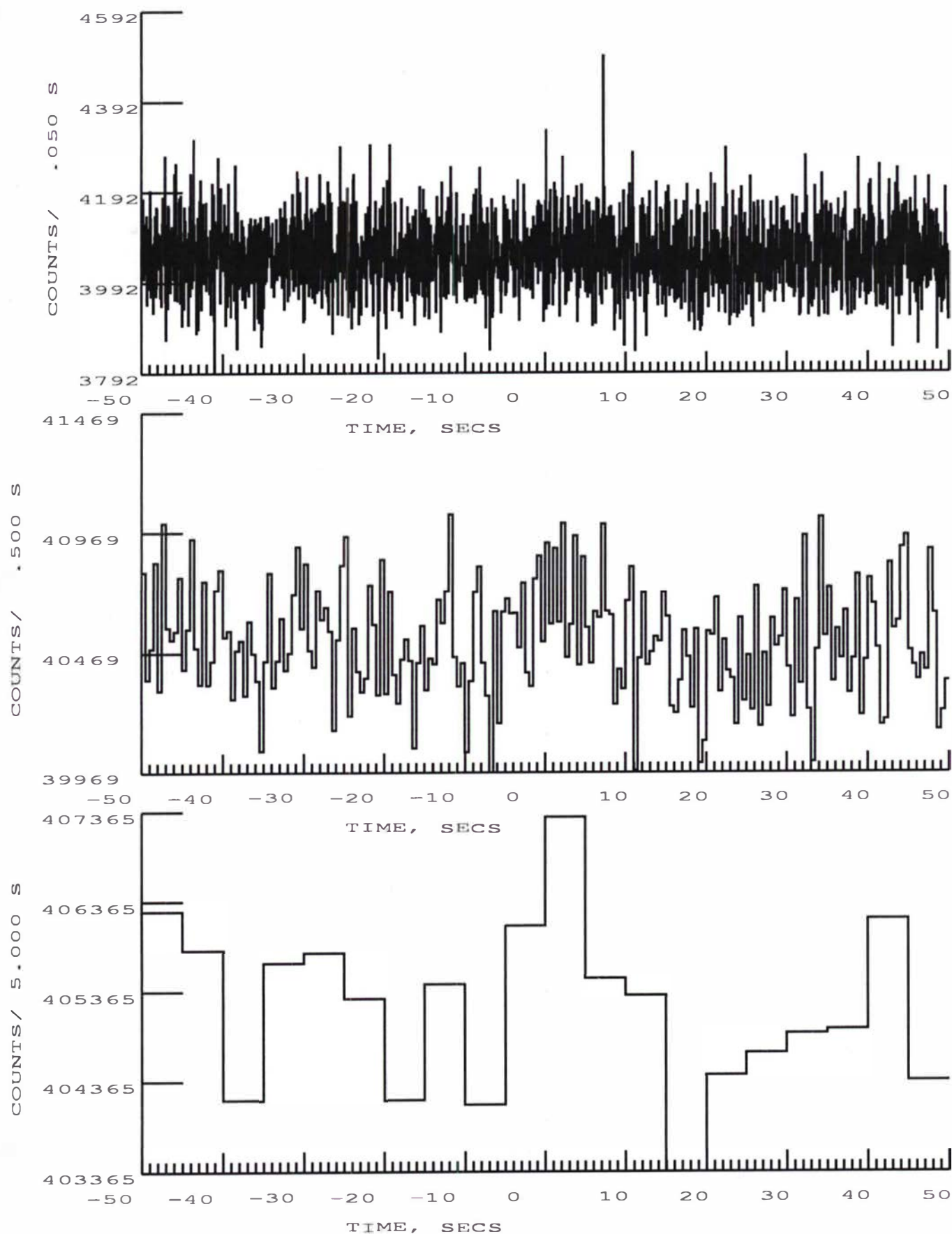
INTEGRAL

28/05/13

43471.000

12:04:31.0

29/10/13



From vxw@capella2.gsfc.nasa.gov Tue May 28 09:47:11 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Tue, 28 May 2013 12:47:09 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Tue 28 May 13 16:45:36 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 556870, Seg_Num: 0
GRB_RA: 138.911d {+09h 15m 39s} (J2000),
140.090d {+09h 20m 22s} (current),
134.100d {+08h 56m 24s} (1950)
GRB_DEC: +87.276d {+87d 16' 33"} (J2000),
+87.219d {+87d 13' 08"} (current),
+87.478d {+87d 28' 42"} (1950)
GRB_DATE: 16440 TJD; 148 DOY; 13/05/28
GRB_TIME: 60083.91 SOD {16:41:23.91} UT
TRIGGER_INDEX: 124
GRB_PHI: -9.47 [deg]
GRB_THETA: 18.23 [deg]
DELTA_TIME: -11.00 [sec]
TRIGGER_DUR: 0.512 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 20.83 [sigma]
MAGE_SIGNIF: 9.71 [sigma]
C_URL: sw00556870000msb.lc
SUN_POSTN: 65.72d {+04h 22m 52s} +21.56d {+21d 33' 41"}
SUN_DIST: 67.71 [deg] Sun_angle= -5.0 [hr] (East of Sun)
MOON_POSTN: 297.97d {+19h 51m 52s} -15.99d {-15d 59' 17"}
MOON_DIST: 108.56 [deg]
MOON_ILLUM: 83 [%]
GAL_COORDS: 125.44, 28.71 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 94.81, 64.69 [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 = 266.91,14.15 [deg]

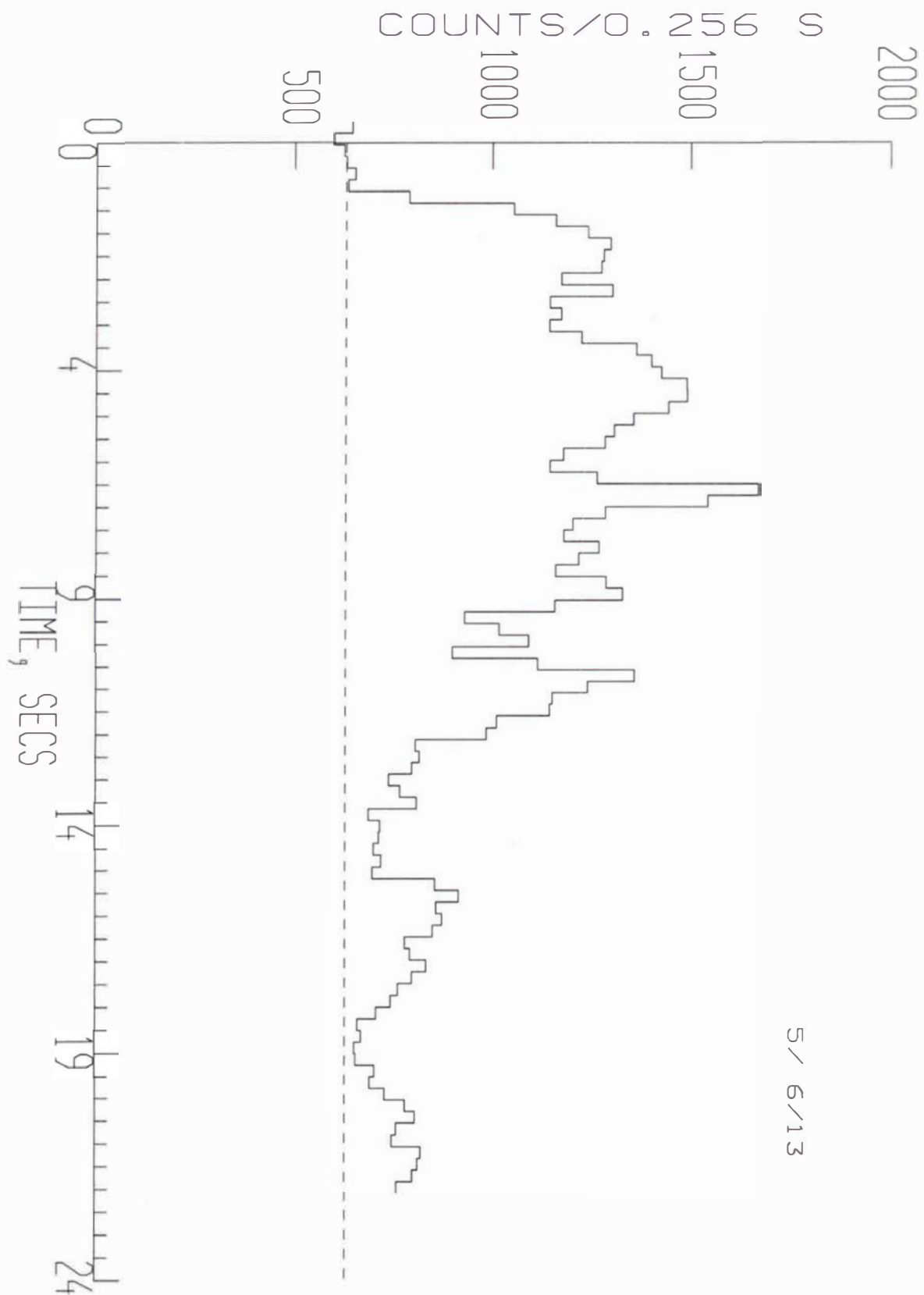
B

59.4 s

$5.1 \times 10^{-6} \text{ erg cm}^{-2}$

3 phot/arc²s

SWIFT 28/05/13 60083.920
25- 100 keV



MS01

28/05/13

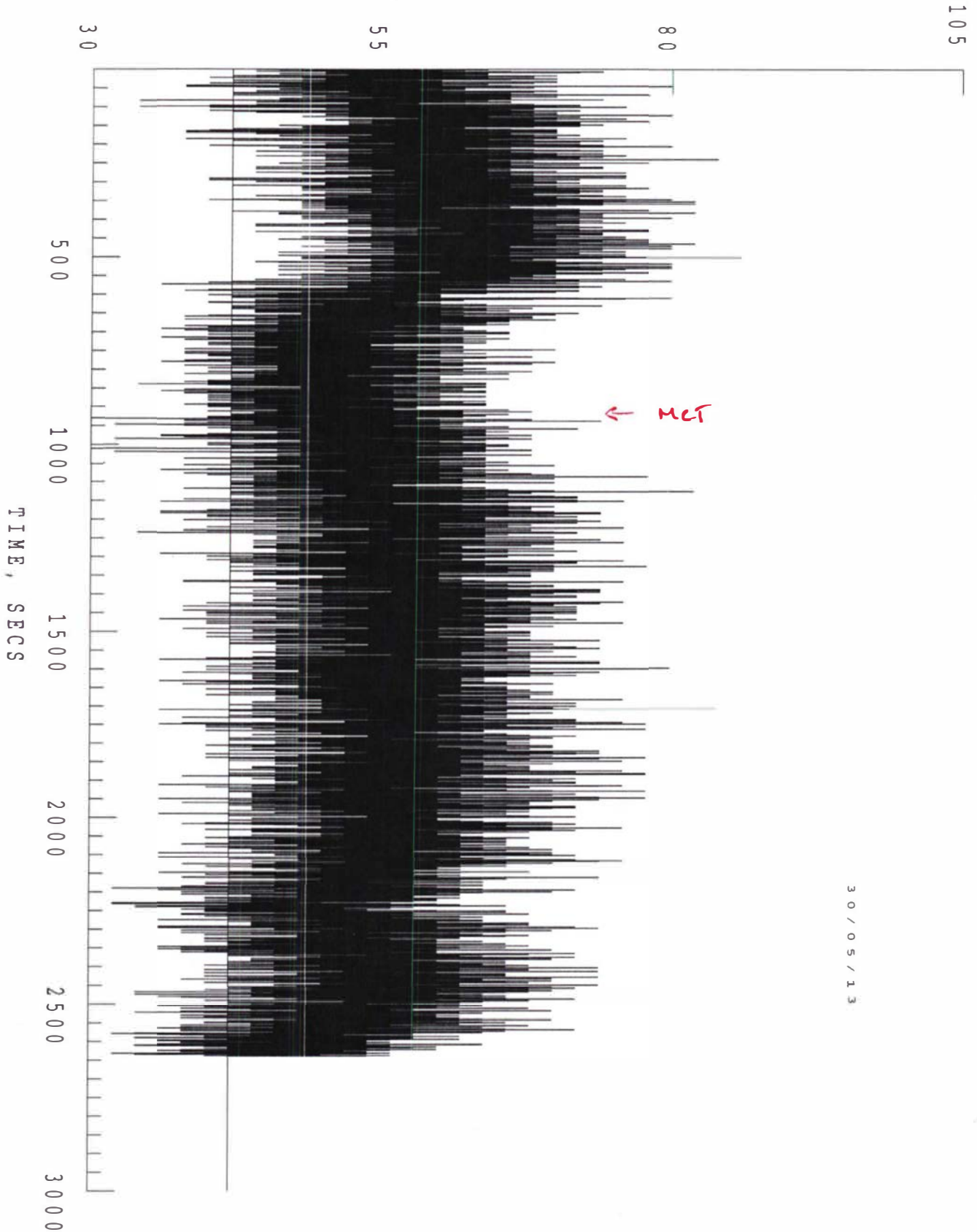
58750.120

B

50 - 3000 keV

COUNTS/0.250 S

Oculted



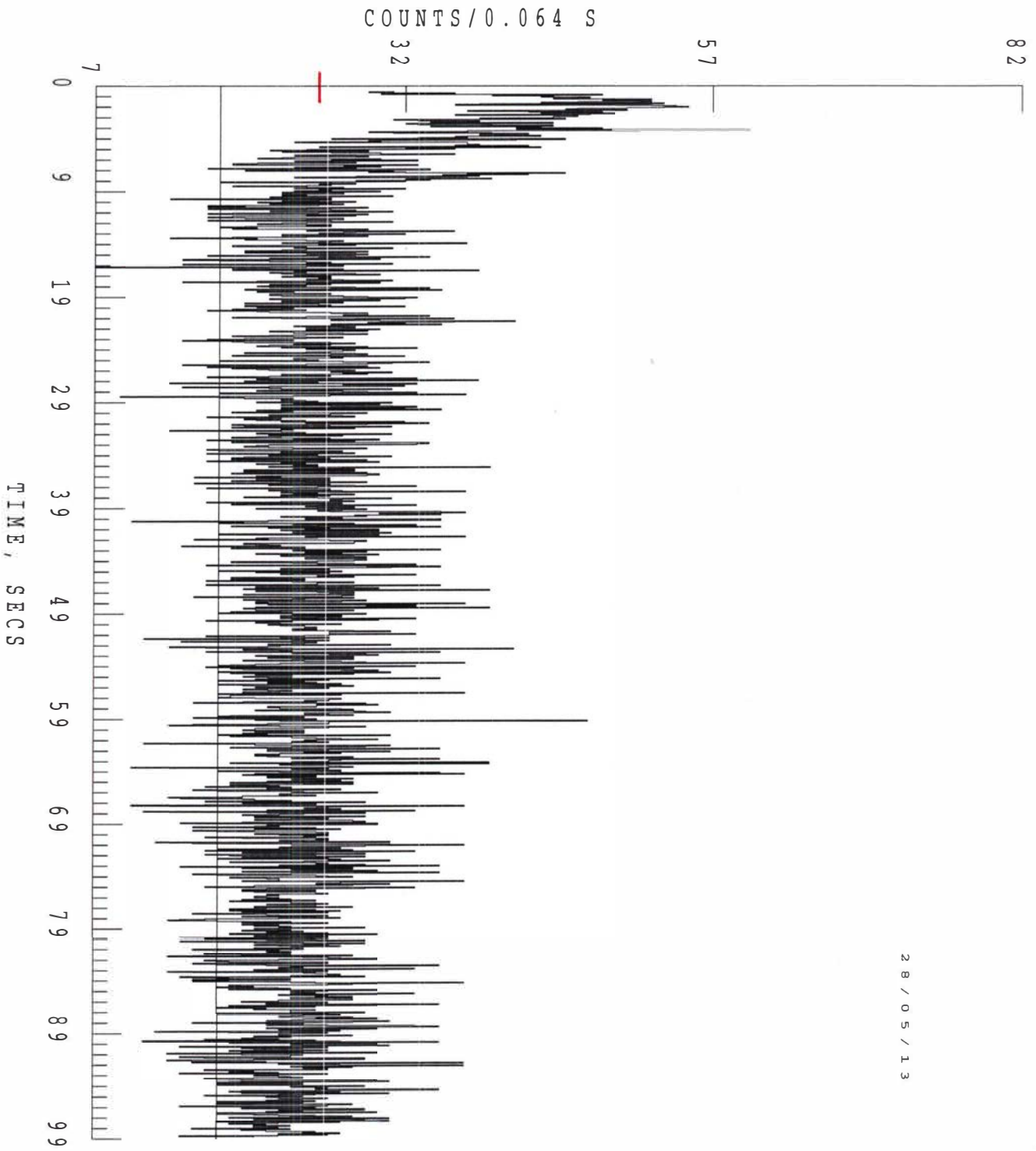
KONUS2

28/05/13

60085.301

B

50 - 200 keV



28/05/13

KONUS HRES 20130528 60084

TRIGGER TIME: 28/05/13 DOY 148 Julian 2456442.19543 UT = 16.690 16:41:24 (60085.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

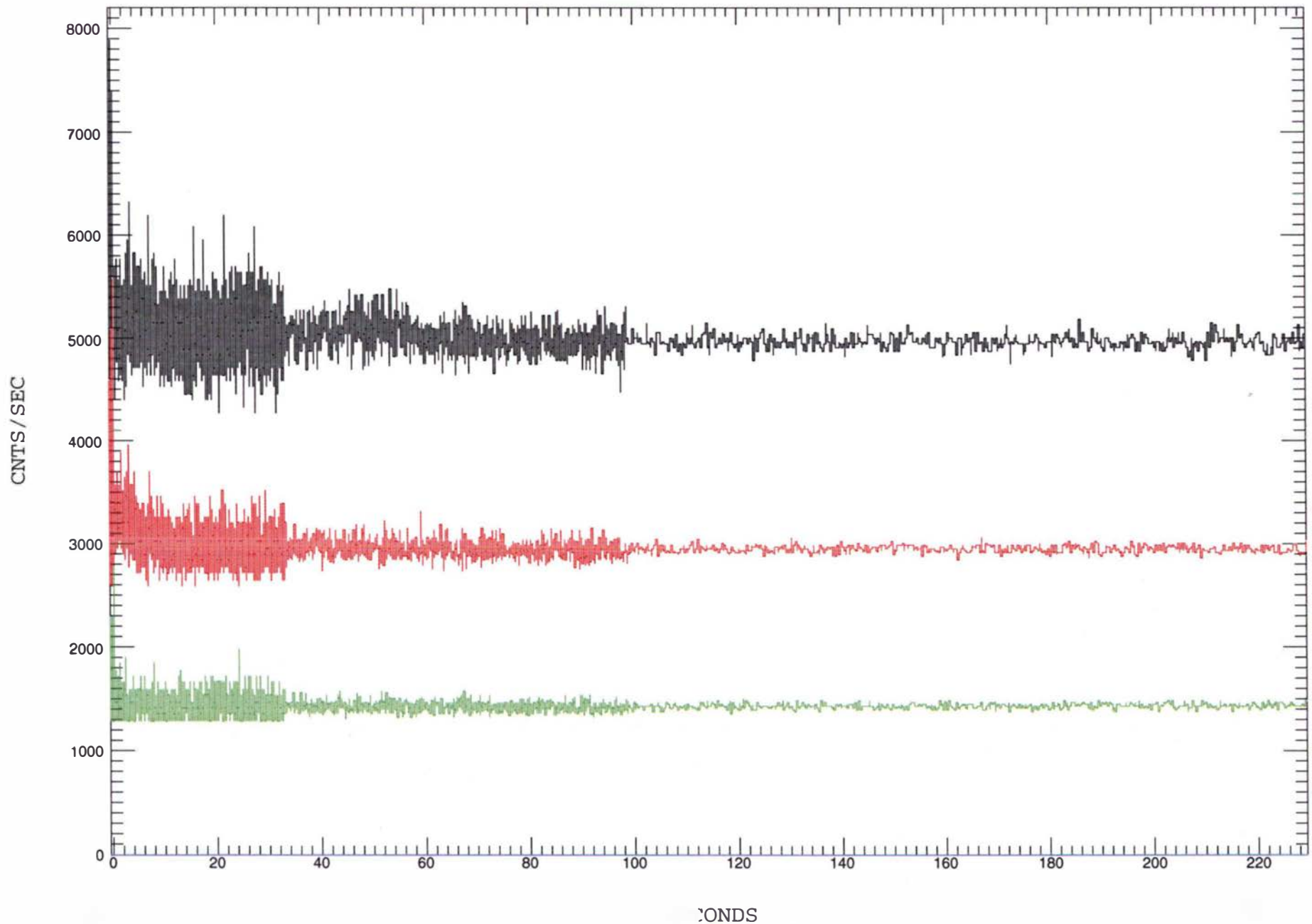
Chan 4 : [> 10 MeV]

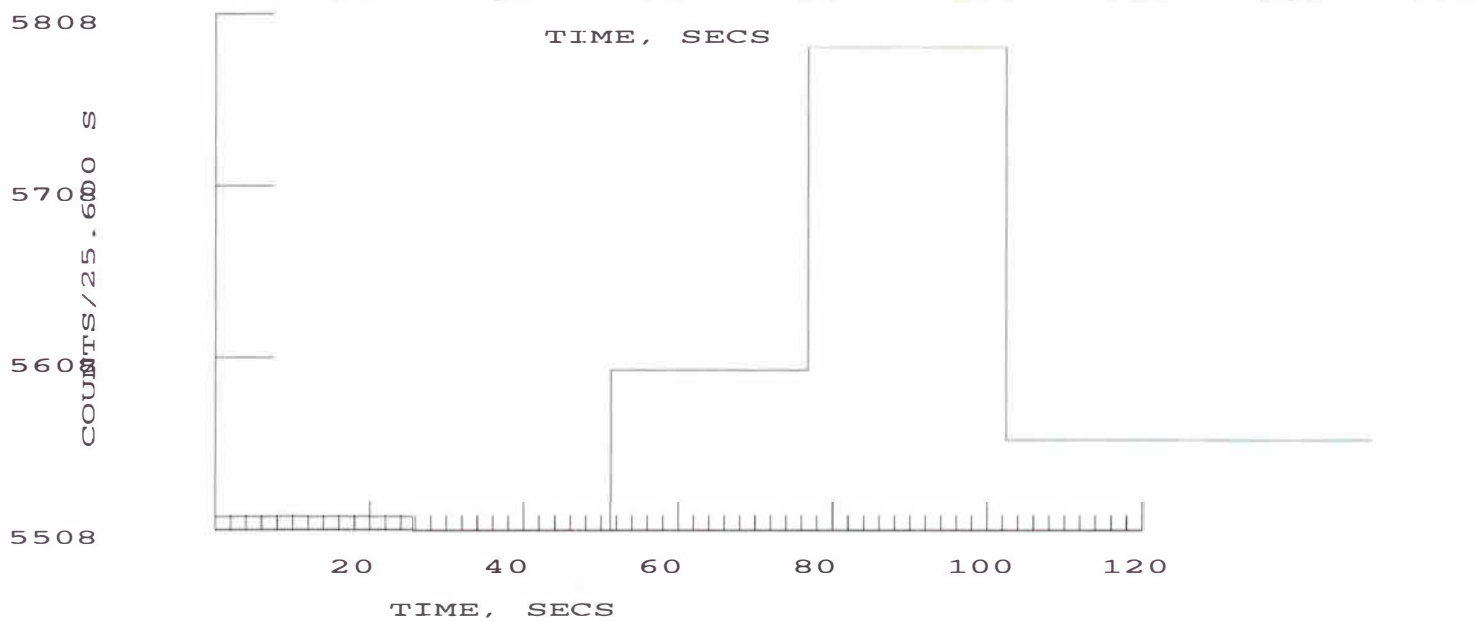
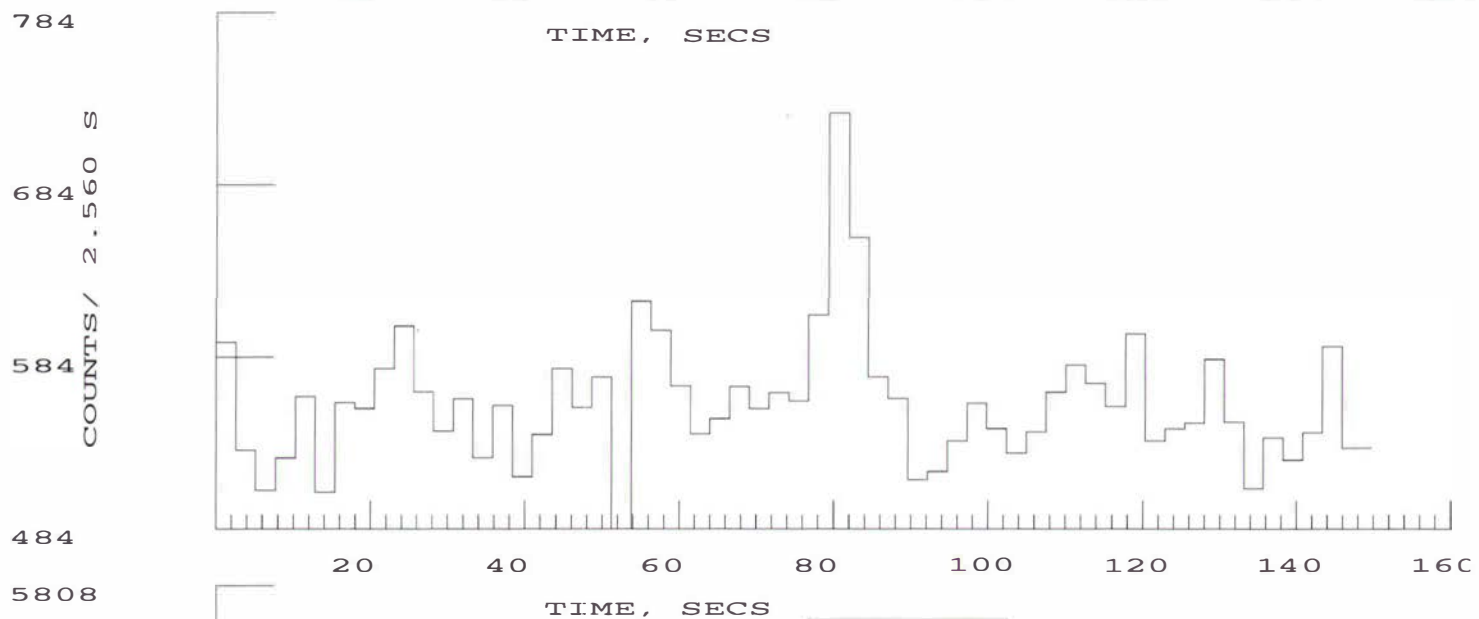
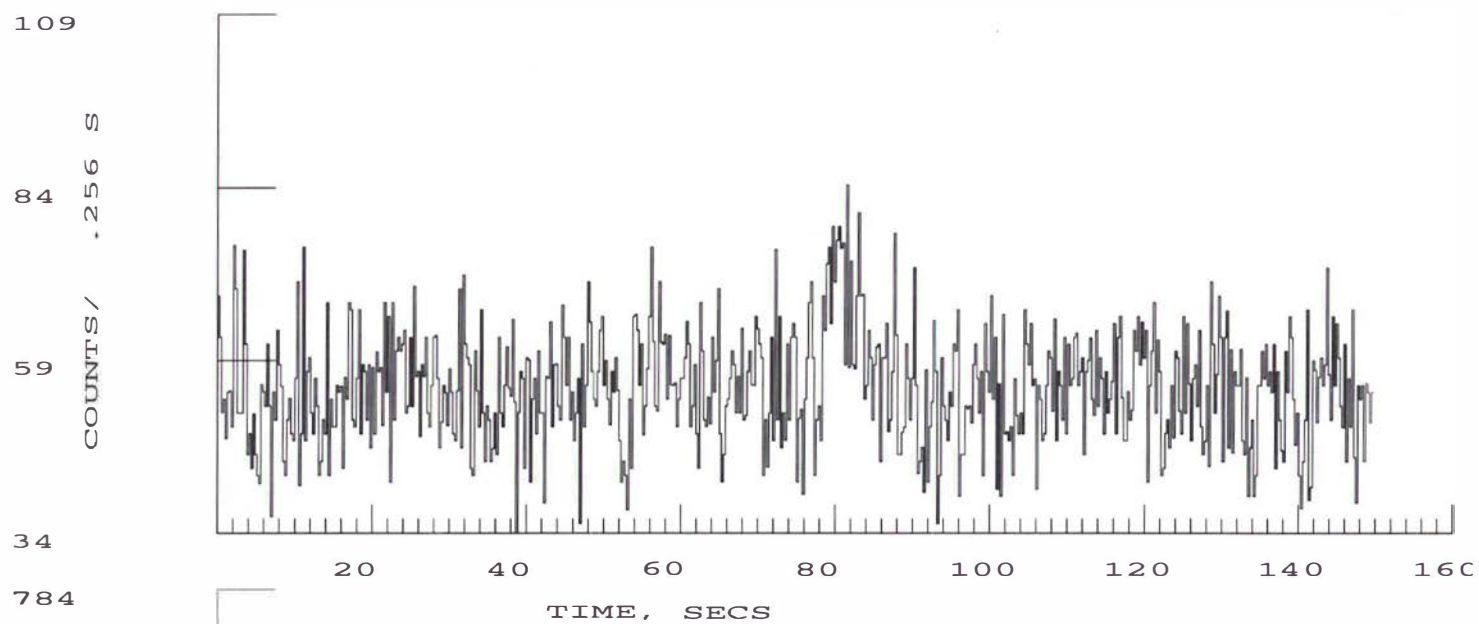
Channel 1 + 3900

Channel 2 + 2600

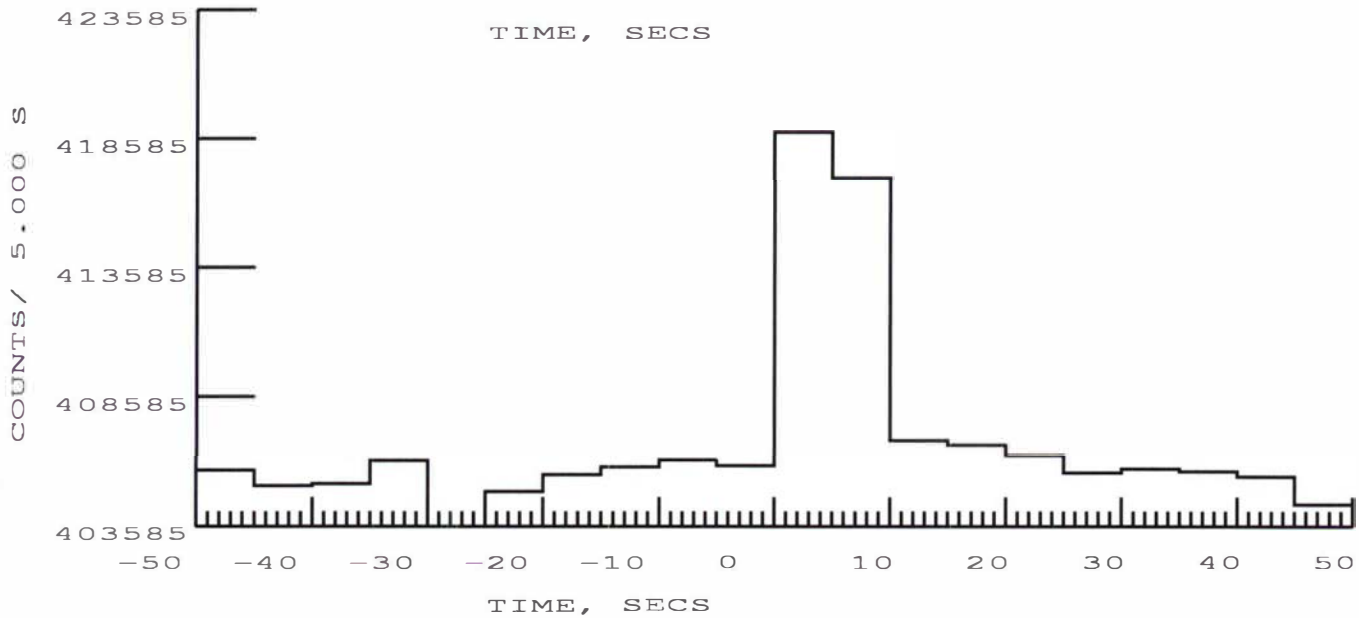
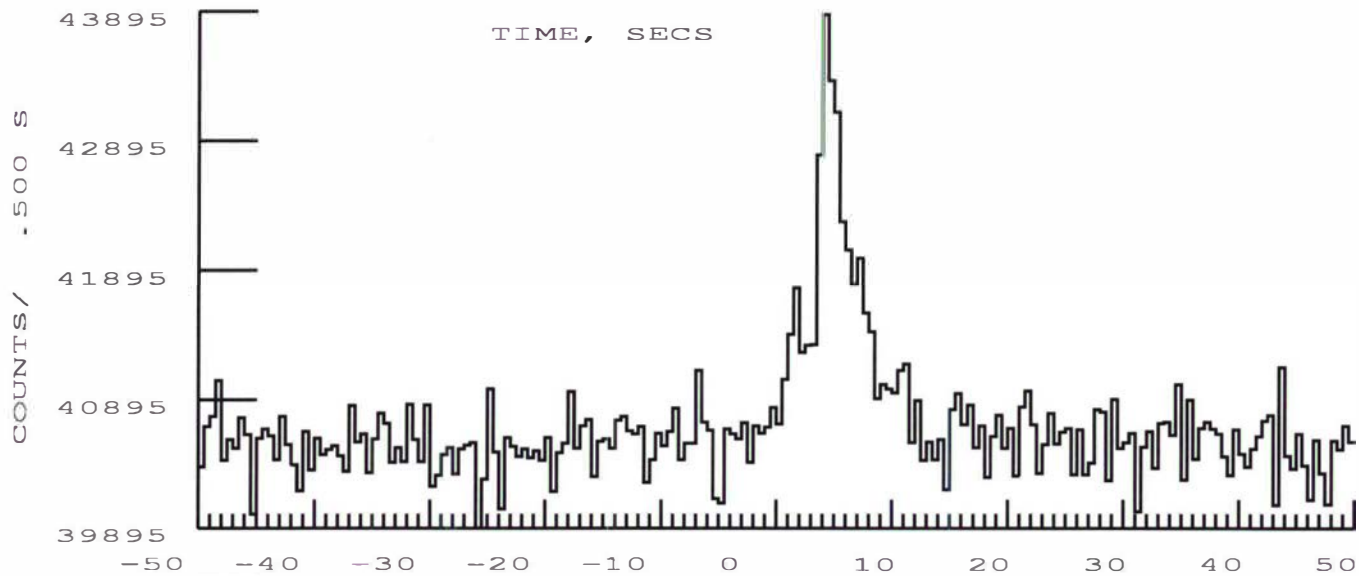
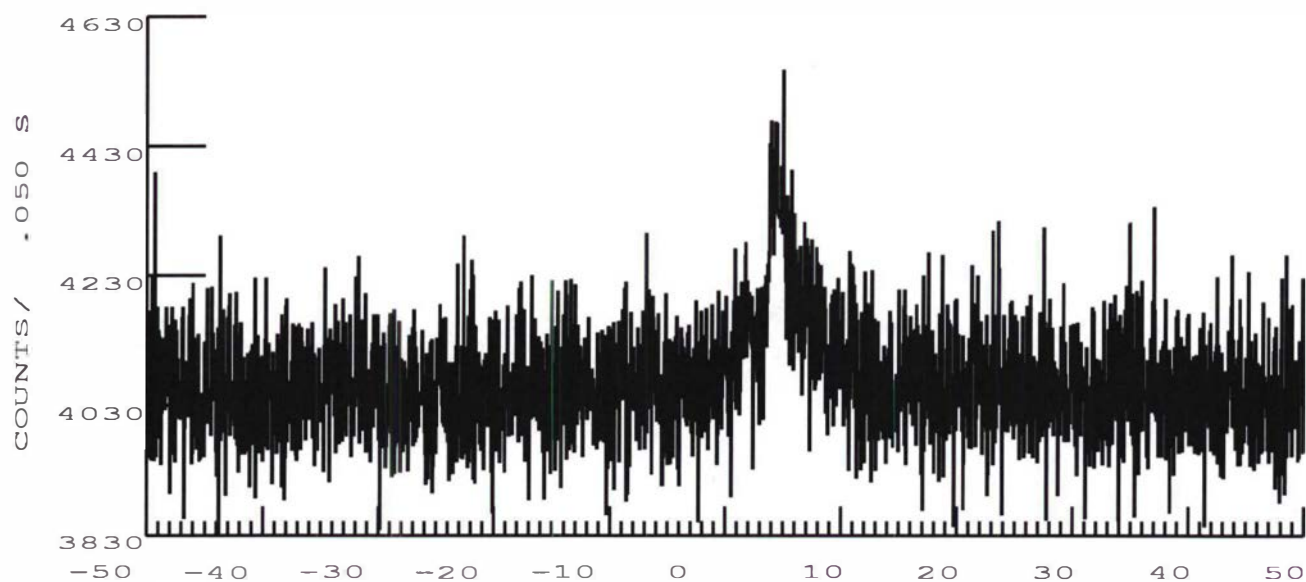
Channel 3 + 1300

Channel 4 + 0





INTEGRAL 28/05/13 60083.000 16:41:23.0 13/10/15



Subject: [Ipn] BAT lightcurve for trigger at 130528_1641

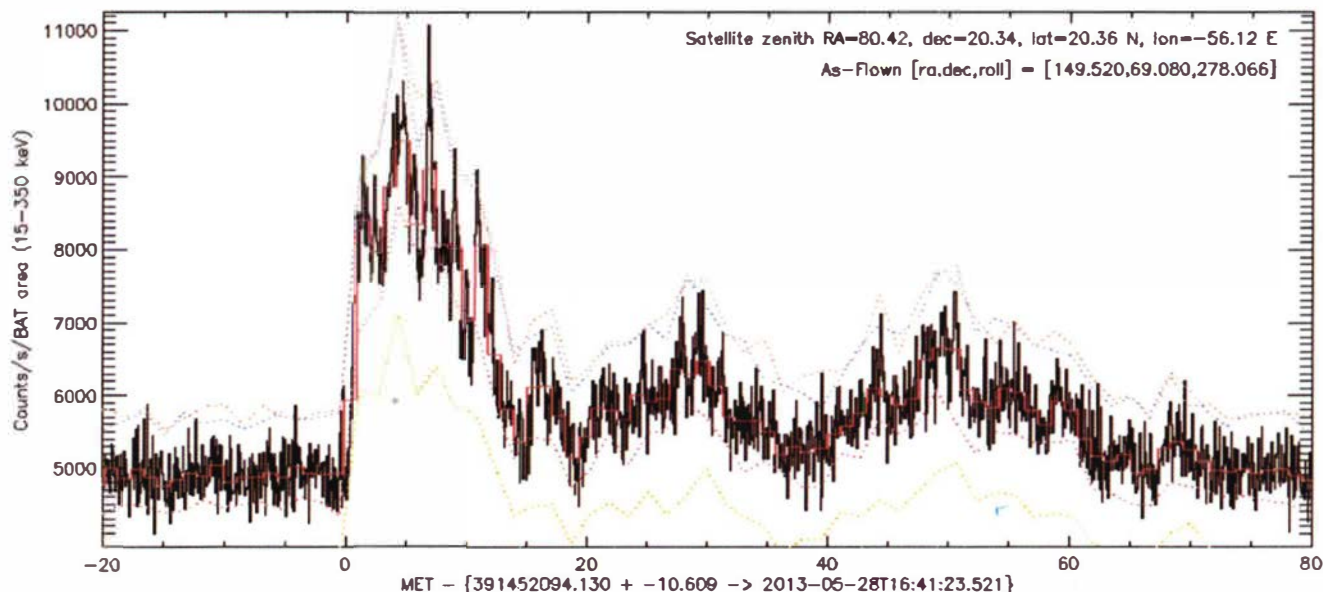
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/28/2013 2:12 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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/tmp/130528_1641.png



```
% /usr/local/bin/swinfo -o 391452094.130
Time(MET + UTCF -> UT): 391452094.130 + -10.609 -> 2013-05-28T16:41:23.521
YYMMDD_SOD: 130528_60083.521 DOY=148
Swift Zenith(RA,dec): 80.42, 20.34
Swift Location(lon,lat,alt): -56.12 E, 20.36 N, 575 km
Obs Sequence Number: 00032519016
Obs Target Name: Holmberg IX X-1
Obs Date and Times: 2013-05-28 16:34:51 - 16:41:29
Obs Pointing(ra,dec,roll): 149.520, 69.080, 278.07
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130528_1641_bat64ms_ipn

27 bytes

/tmp/130528_1641.png

17.6 KB

29/10/13

MESSENGER

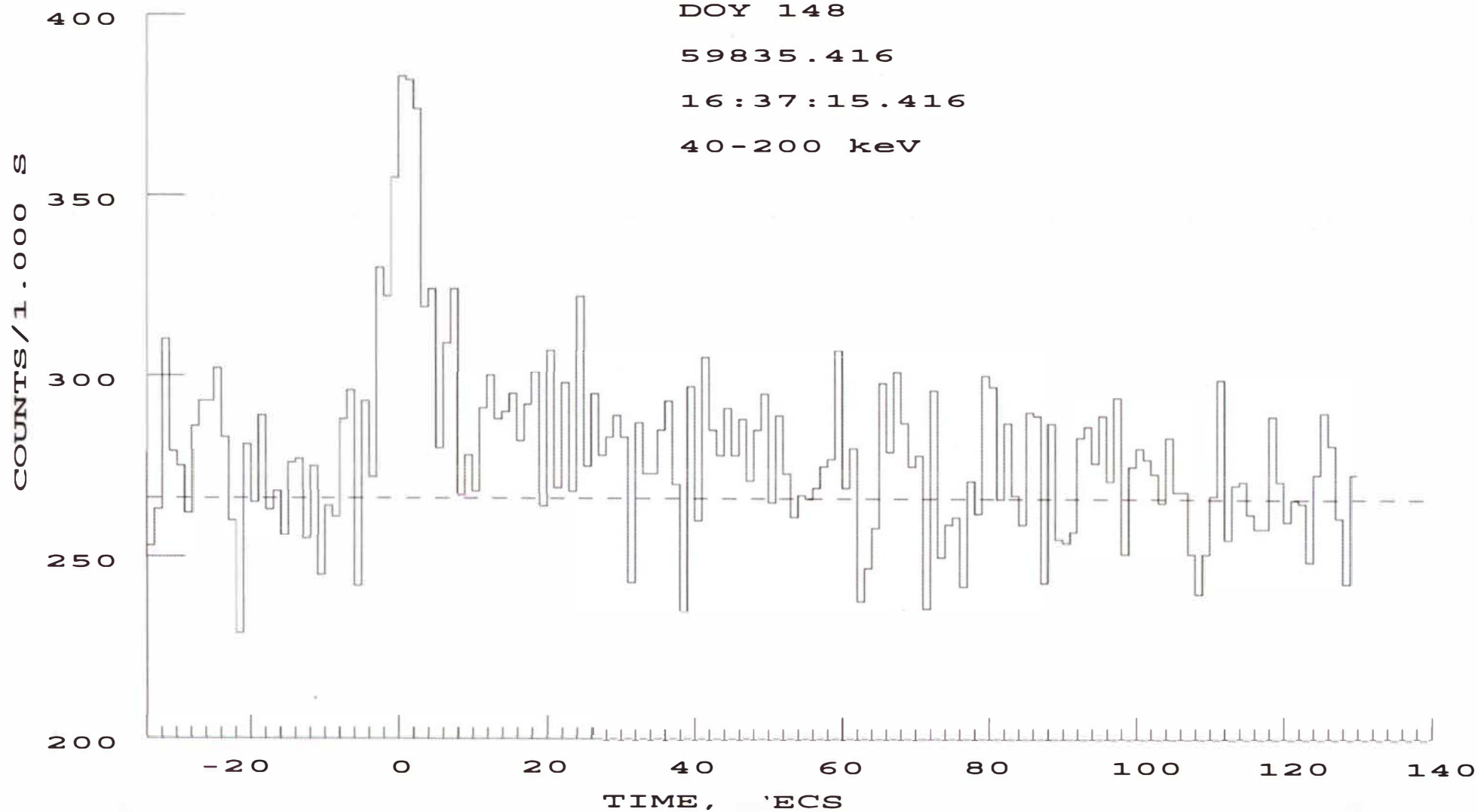
28/05/13

DOY 148

59835.416

16:37:15.416

40-200 keV



GLAST

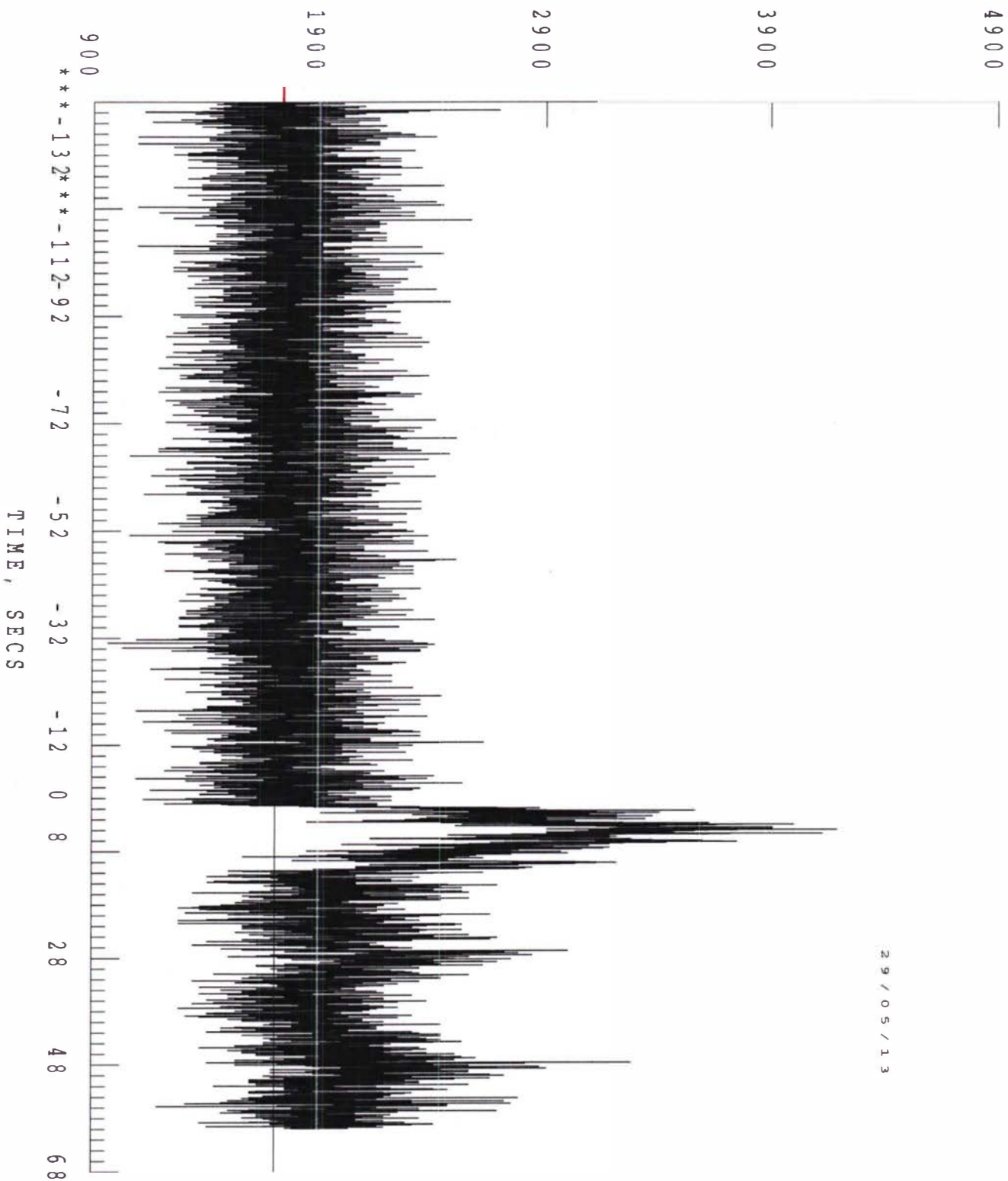
28/05/13

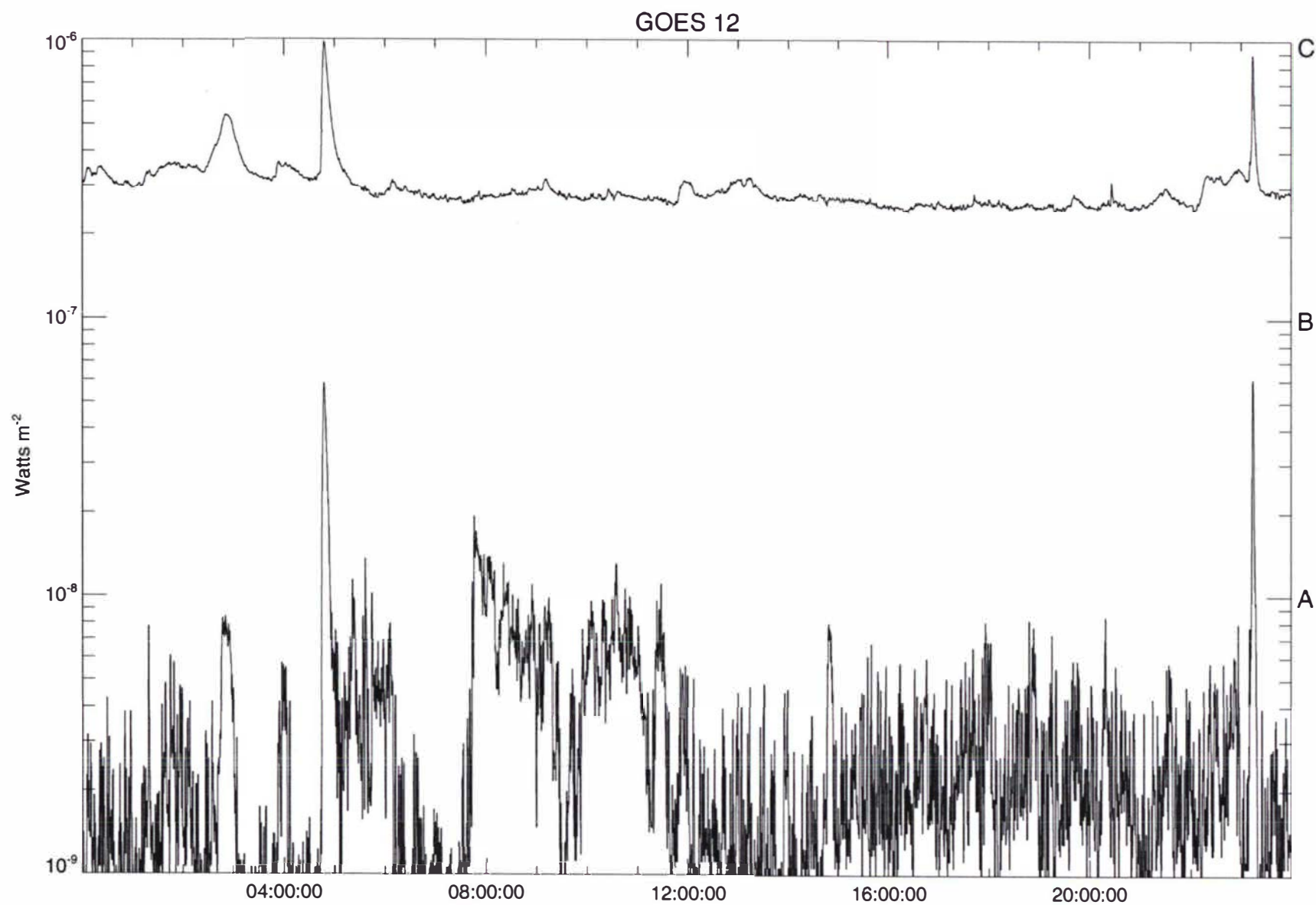
60084.409

13

26- 293 keV

COUNTS/0.032 S





Data Start: 13/05/28, 0000:13

Plot created: 13/05/31, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: [Ipn] BAT lightcurve for trigger at 130529_1019

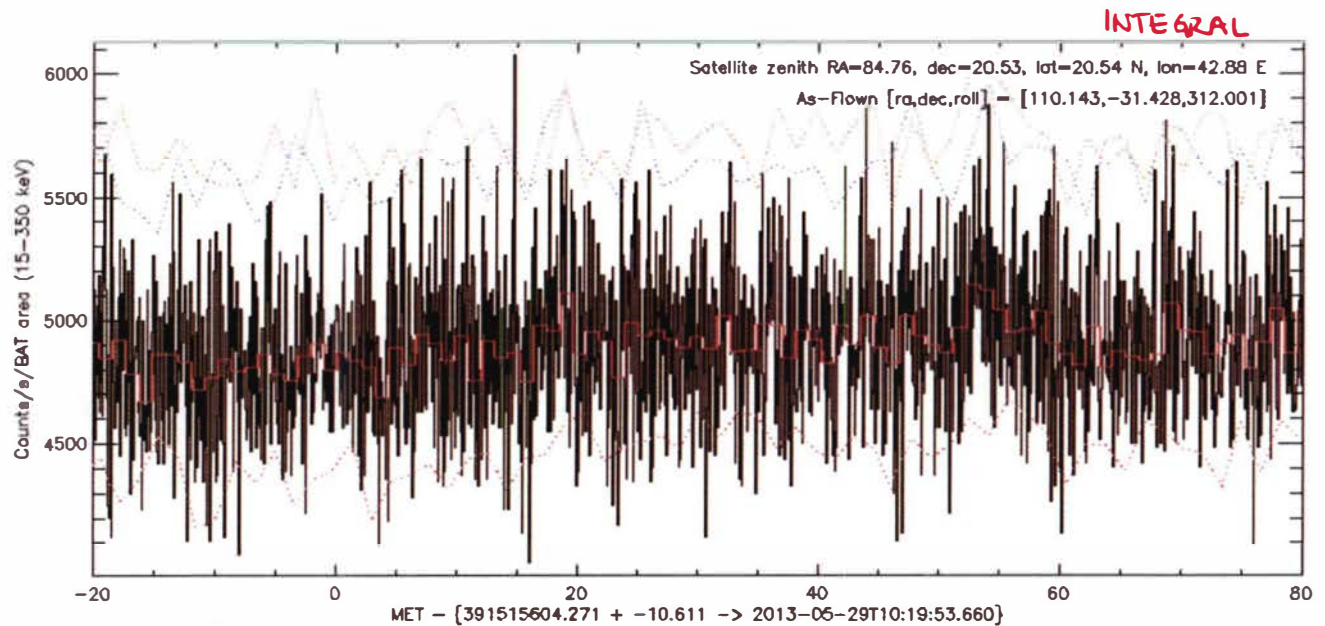
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/29/2013 9:26 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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/tmp/130529_1019.png



```
% /usr/local/bin/swinfo -o 391515604.271
Time(MET + UTCF -> UT): 391515604.271 + -10.611 -> 2013-05-29T10:19:53.660
YYMMDD_SOD: 130529_37193.660 DOY=149
Swift Zenith(RA,dec): 84.76, 20.53
Swift Location(lon,lat,alt): 42.88 E, 20.54 N, 575 km
Obs Sequence Number: 00032036061
Obs Target Name: RX J0720.4-3125
Obs Date and Times: 2013-05-29 10:16:51 - 10:46:48
Obs Pointing(ra,dec,roll): 110.143, -31.428, 312.00
```

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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130529_1019.png	19.2 KB
/tmp/130529_1019_bat64ms_ipn	27 bytes

From vxw@capella2.gsfc.nasa.gov Wed May 29 04:20:01 2013
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-Apparent-Source-IP: 128.183.96.236
Date: Wed, 29 May 2013 07:19:59 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-BRTS-Status: 1

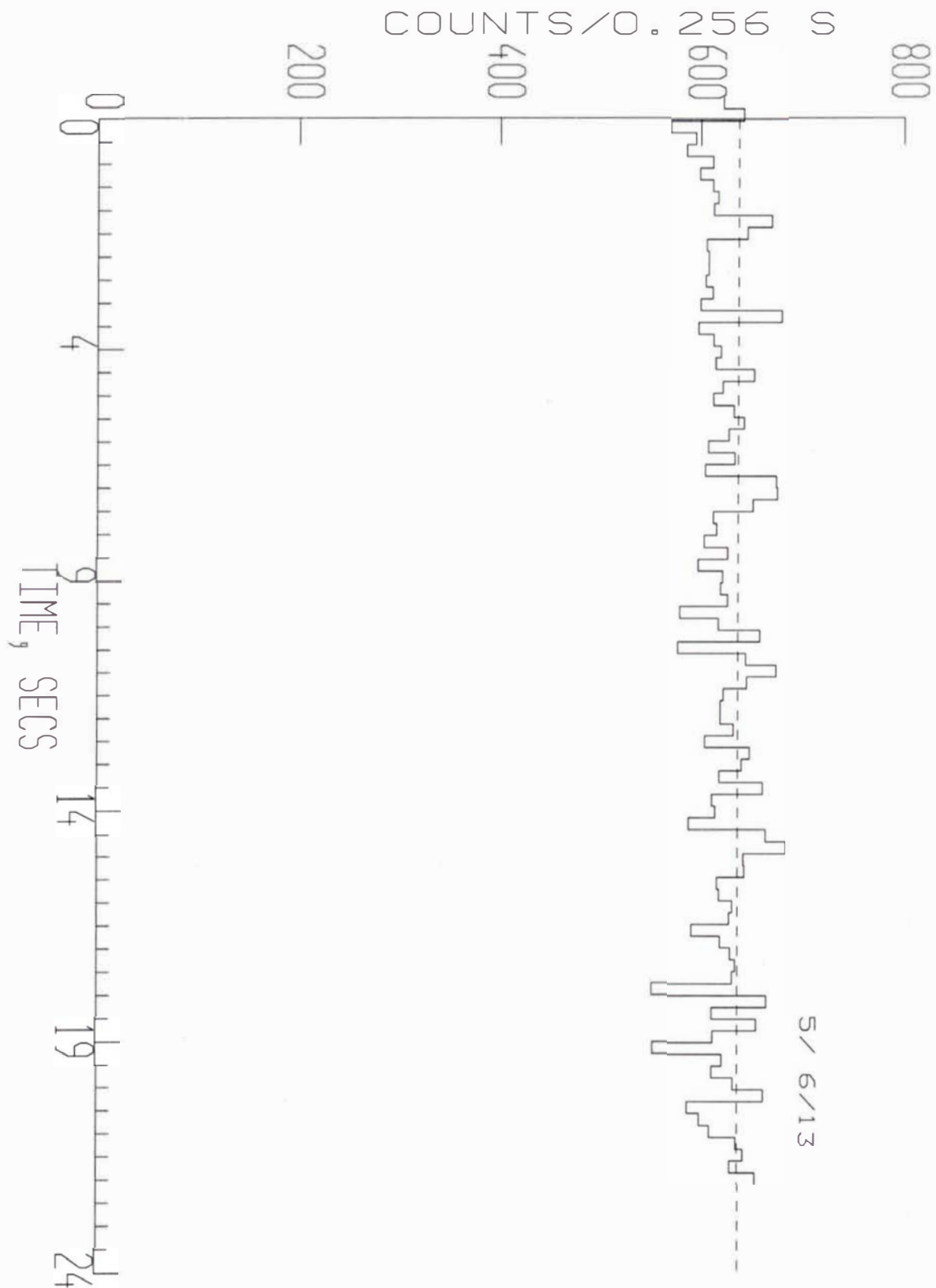
TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Wed 29 May 13 11:19:30 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 556930, Seg_Num: 0
GRB_RA: 24.259d {+01h 37m 02s} (J2000),
24.367d {+01h 37m 28s} (current),
23.854d {+01h 35m 25s} (1950)
GRB_DEC: -64.138d {-64d 08' 17"} (J2000),
-64.070d {-64d 04' 12"} (current),
-64.393d {-64d 23' 32"} (1950)
GRB_DATE: 16441 TJD; 149 DOY; 13/05/29
GRB_TIME: 40525.38 SOD {11:15:25.38} UT
TRIGGER_INDEX: 20000
GRB_PHI: -127.06 [deg]
GRB_THETA: 9.48 [deg]
DELTA_TIME: 0.00 [sec]
TRIGGER_DUR: 64.000 [sec]
SOLN_STATUS: 0x13
RATE_SIGNIF: 0.00 [sigma]
IMAGE_SIGNIF: 7.22 [sigma]
C_URL: sw00556930000msb.lc
SUN_POSTN: 66.50d {+04h 26m 01s} +21.68d {+21d 40' 51"}
SUN_DIST: 91.77 [deg] Sun_angle= 2.8 [hr] (West of Sun)
MOON_POSTN: 309.20d {+20h 36m 48s} -13.24d {-13d 14' 06"}
MOON_DIST: 71.65 [deg]
MOON_ILLUM: 75 [%]
GAL_COORDS: 294.83,-52.27 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 334.05,-63.75 [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 = 241.68,-17.16 [de

128s

$1.4 \times 10^{-6} \text{ erg cm}^{-2}$

0.5 phot/cm²s

SWIFT 29/05/13 40525.389
25- 100 keV



MS01

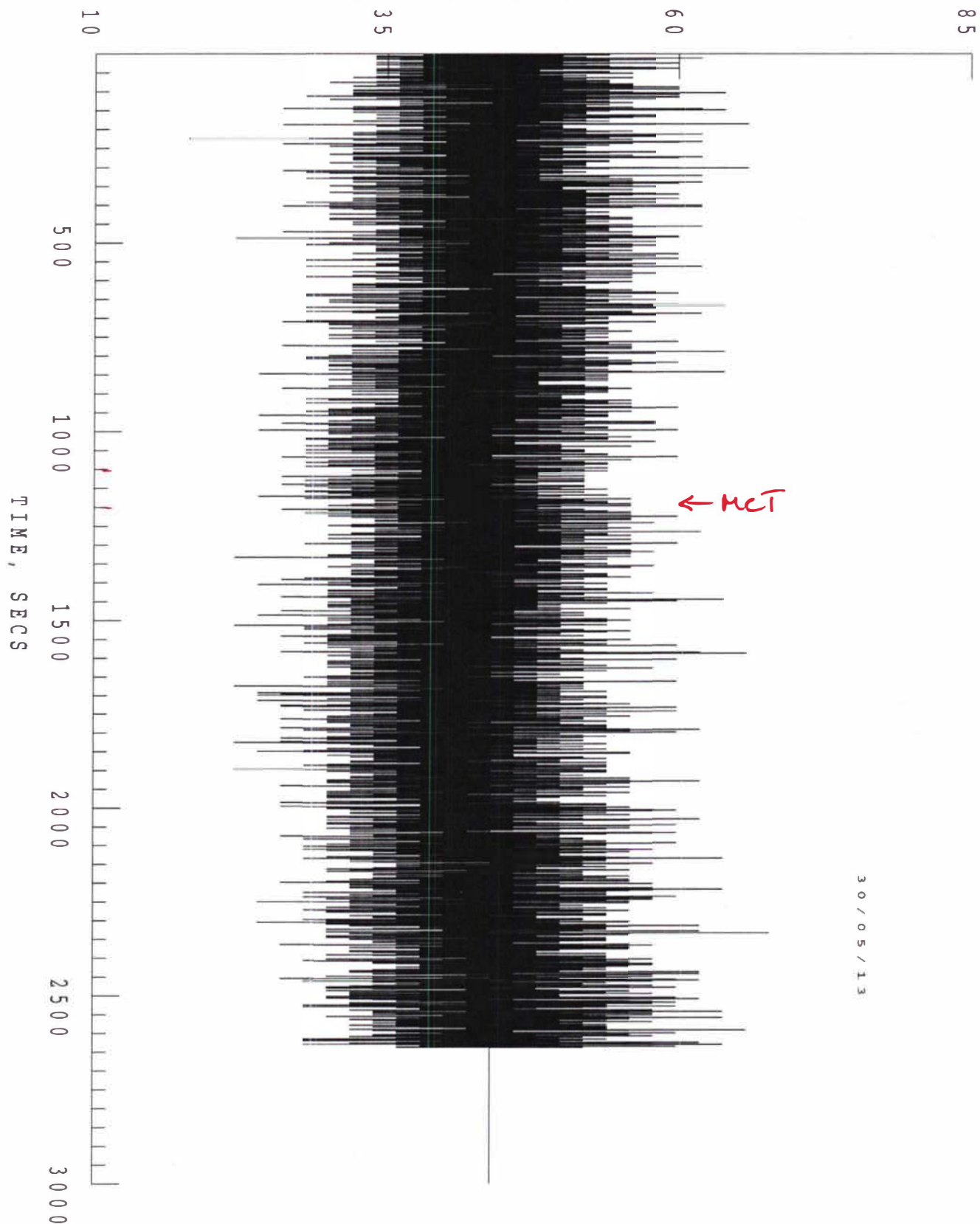
29/05/13

39188.998

50 - 3000 keV

Occluded

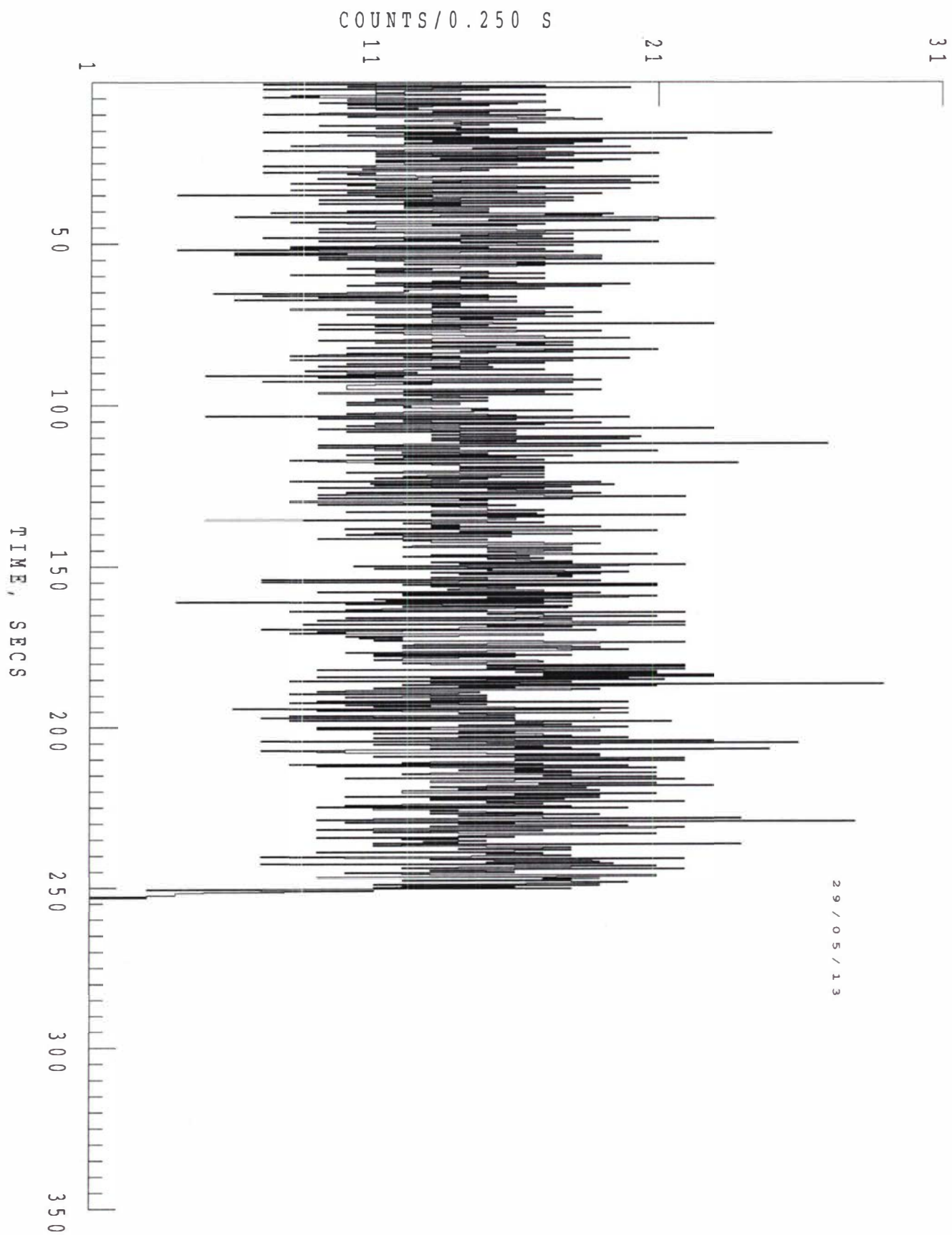
COUNTS/0.250 S



HESSI

29/05/13 40375.000 (SWIFT_20130529_40525)

25- 150 keV



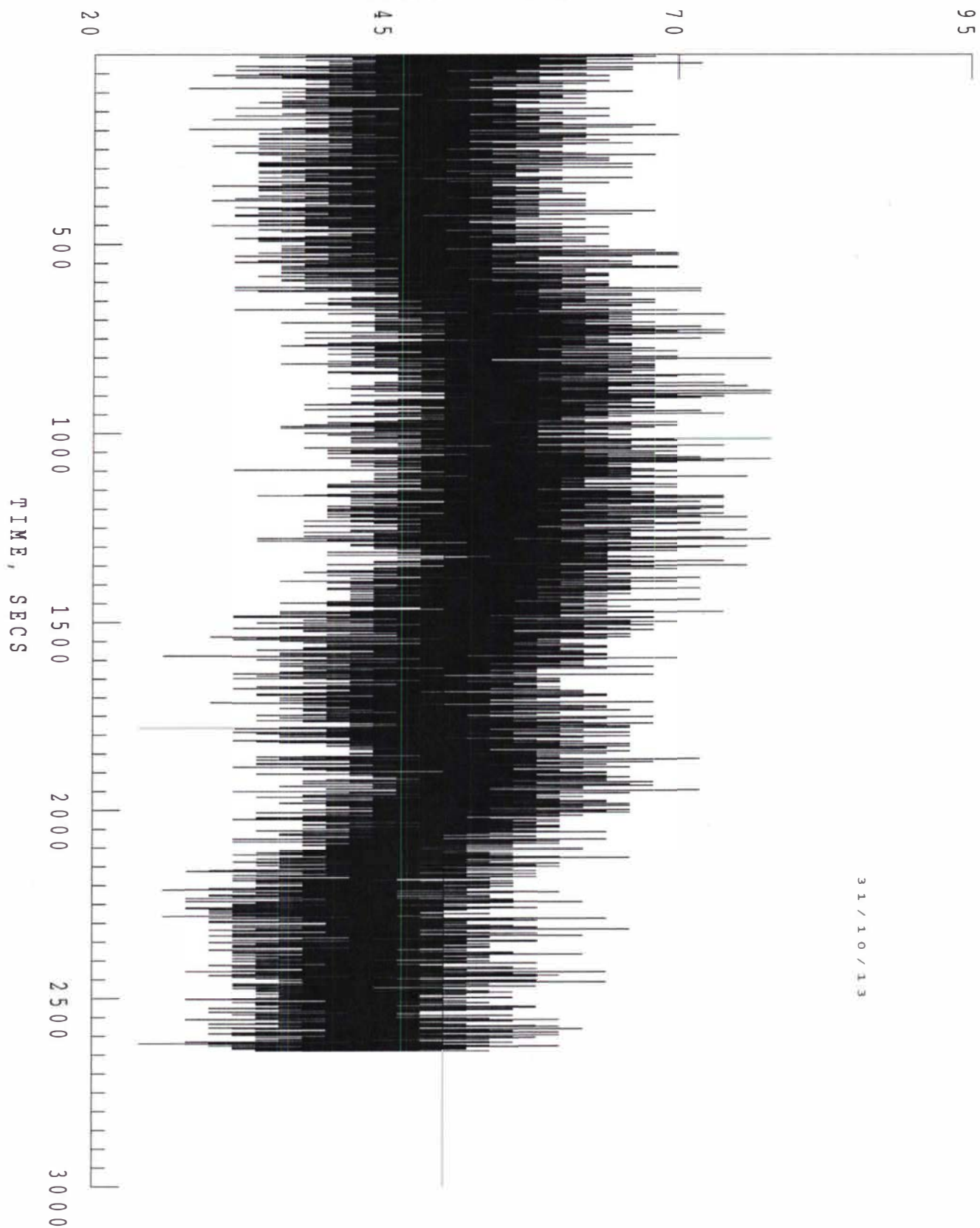
MS01

29/05/13

51068.797

50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Thu Oct 31 04:31:36 2013
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 128.32.13.253
X-Barracuda-User-Whitelist: khurley@ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.98.141
X-Barracuda-BBL-IP: 128.32.98.141
X-Barracuda-RBL-IP: 128.32.98.141
Date: Thu, 31 Oct 2013 04:31:34 -0800 (PST)
X-Barracuda-BWL-IP: nil
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20130529_52425
X-Barracuda-BRTS-Status: 1

HESSI 25 to 150 keV Counts
Created 31-Oct-2013 05:30:20.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 1.00000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [Ipn] BAT lightcurve for trigger at 130529_2136

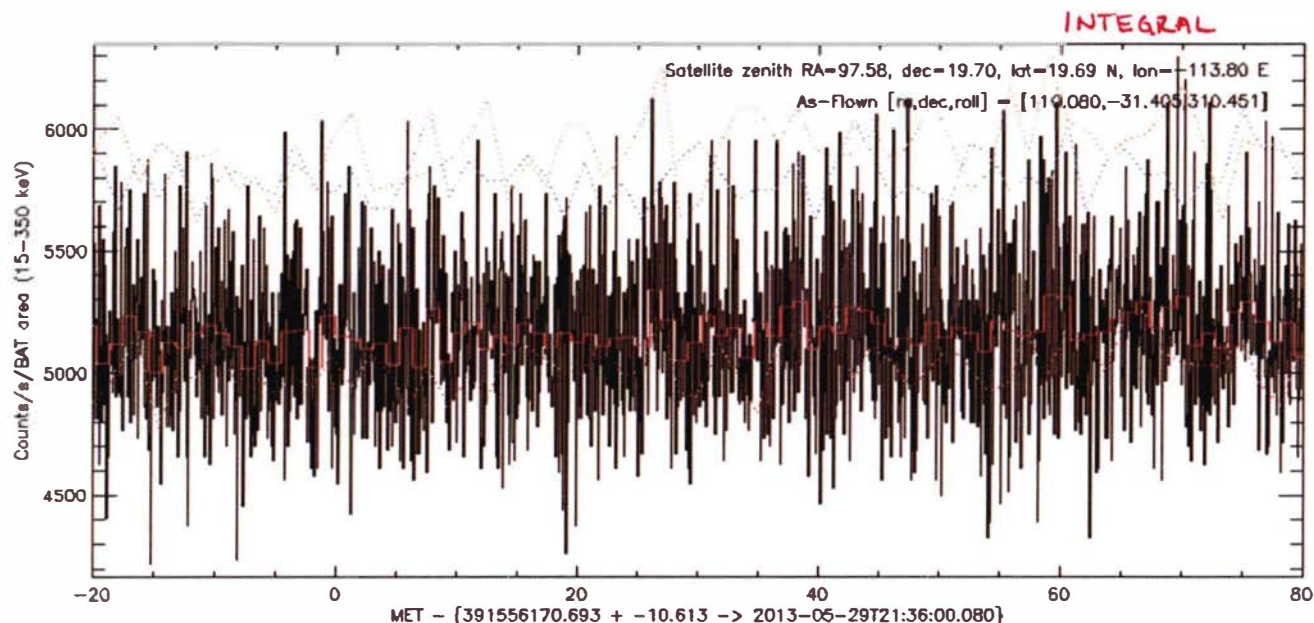
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/29/2013 8:04 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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/tmp/130529_2136.png



```
% /usr/local/bin/swinfo -o 391556170.693
Time(MET + UTCF -> UT): 391556170.693 + -10.613 -> 2013-05-29T21:36:00.080
YYMMDD_SOD: 130529_77760.080 DOY=149
Swift Zenith(RA,dec): 97.58, 19.70
Swift Location(lon,lat,alt): -113.80 E, 19.69 N, 576 km
Obs Sequence Number: 00032036061
Obs Target Name: RX J0720.4-3125
Obs Date and Times: 2013-05-29 21:24:51 - 21:52:46
Obs Pointing(ra,dec,roll): 110.080, -31.405, 310.45
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

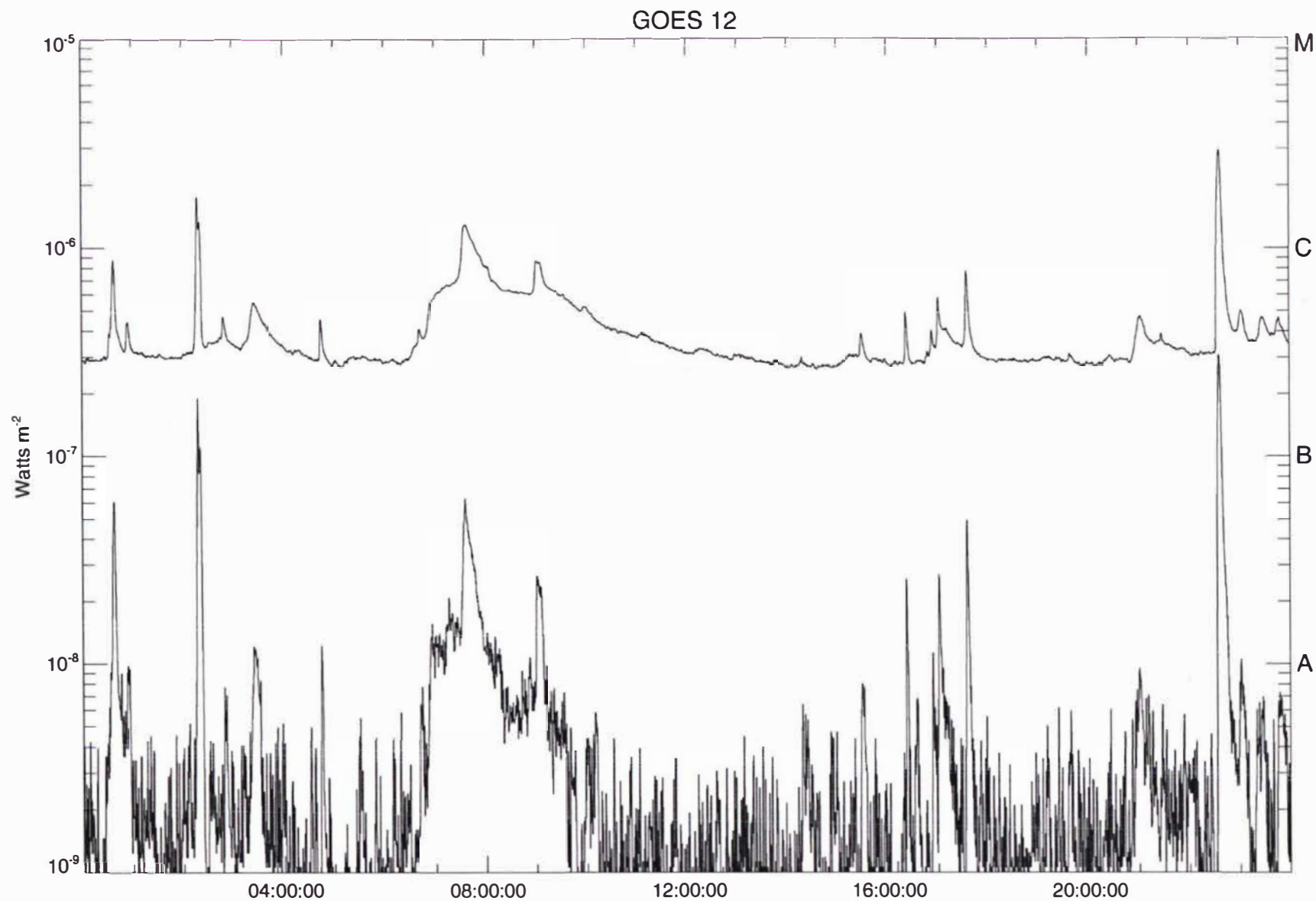
Attachments:

/tmp/130529_2136.png

19.8 KB

/tmp/130529_2136_bat64ms_ipn

27 bytes



Data Start: 13/05/29, 0000:11

Plot created: 13/06/01, 0830

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: [Ipn] BAT lightcurve for trigger at 130530_0742

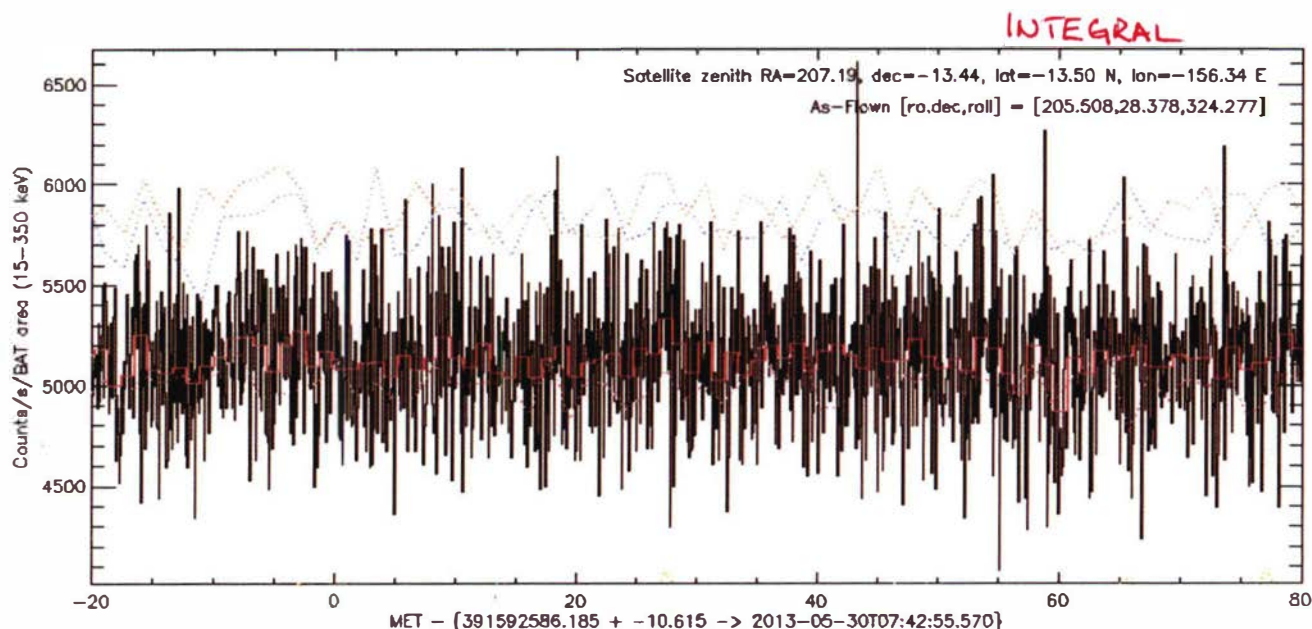
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/30/2013 9:46 AM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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/tmp/130530_0742.png



```
% /usr/local/bin/swinfo -o 391592586.185
Time(MET + UTC -> UT): 391592586.185 + -10.615 -> 2013-05-30T07:42:55.570
YYMMDD_SOD: 130530_27775.570 DOY=150
Swift Zenith(RA,dec): 207.19, -13.44
Swift Location(lon,lat,alt): -156.34 E, -13.50 N, 584 km
Obs Sequence Number: 00091682015
Obs Target Name: M3
Obs Date and Times: 2013-05-30 07:30:51 - 07:48:49
Obs Pointing(ra,dec,roll): 205.508, 28.378, 324.28
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

Attachments:

/tmp/130530_0742_bat64ms_ipn

27 bytes

/tmp/130530_0742.png

18.5 KB

GLAST

30/05/13

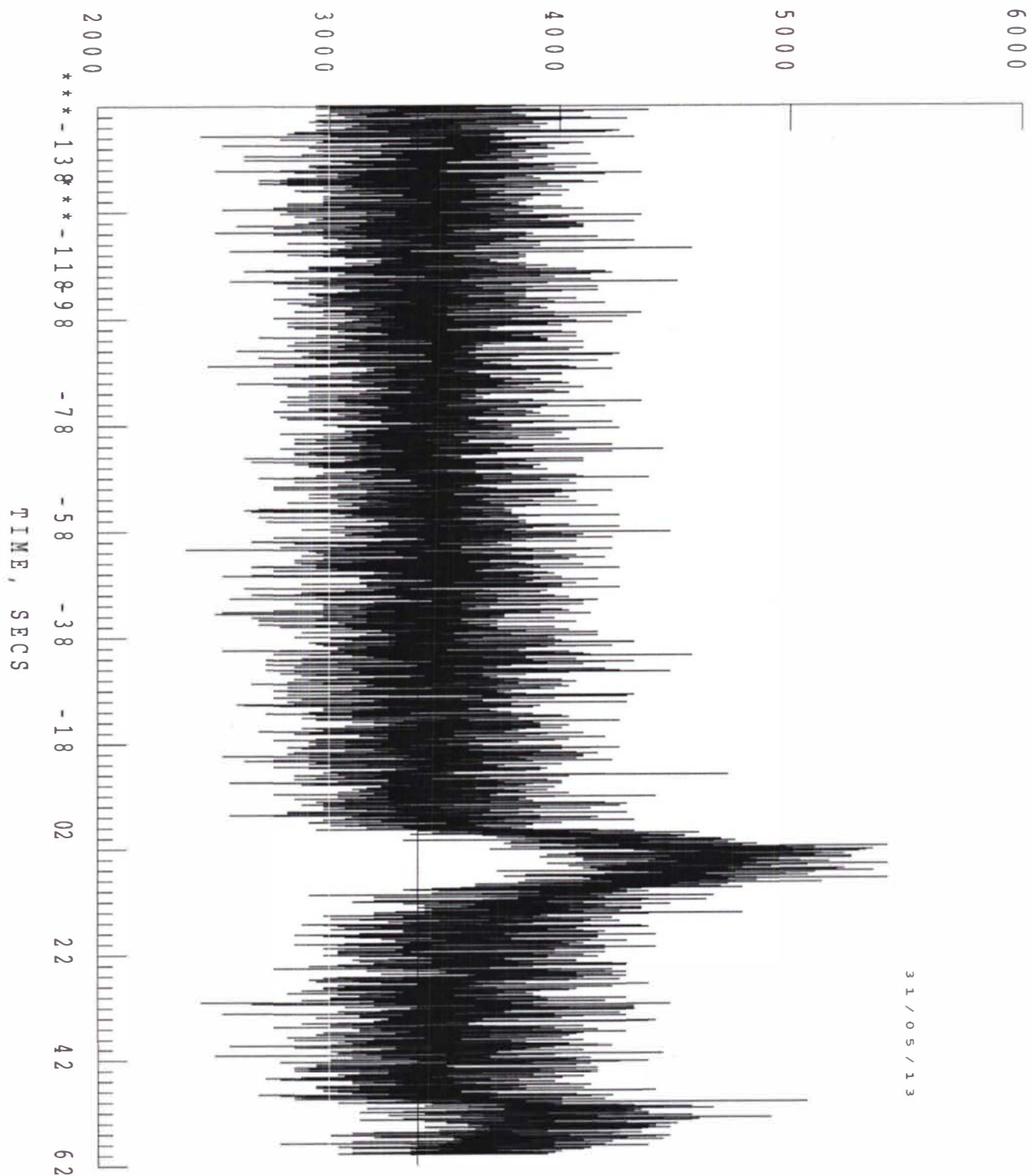
62123.006

17:15:23

26 - 293 keV

160.95 25.23 1.04

COUNTS/0.032 S



MS01

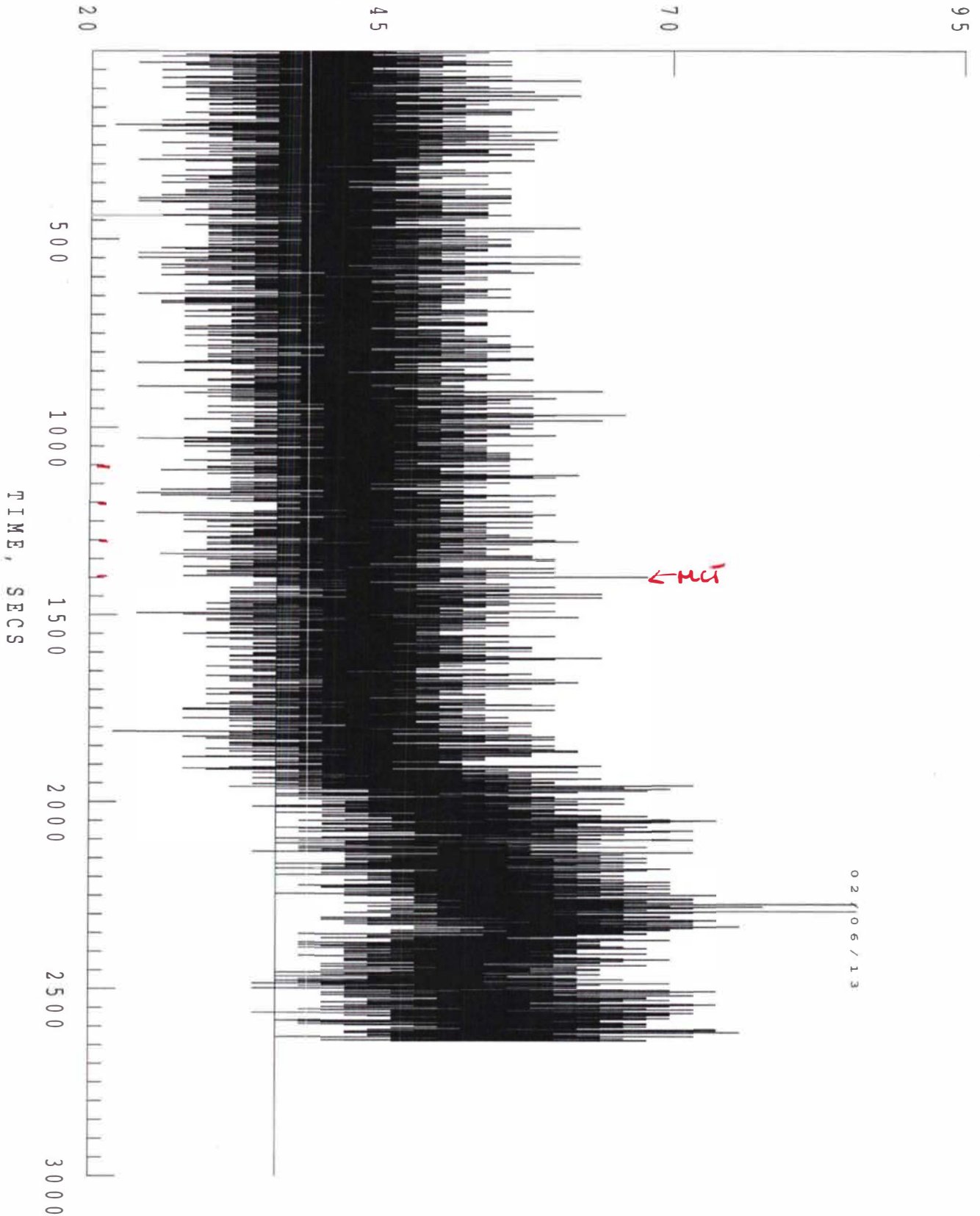
30/05/13

60787.187

50 - 3000 keV

Occulted

COUNTS/0.250 S

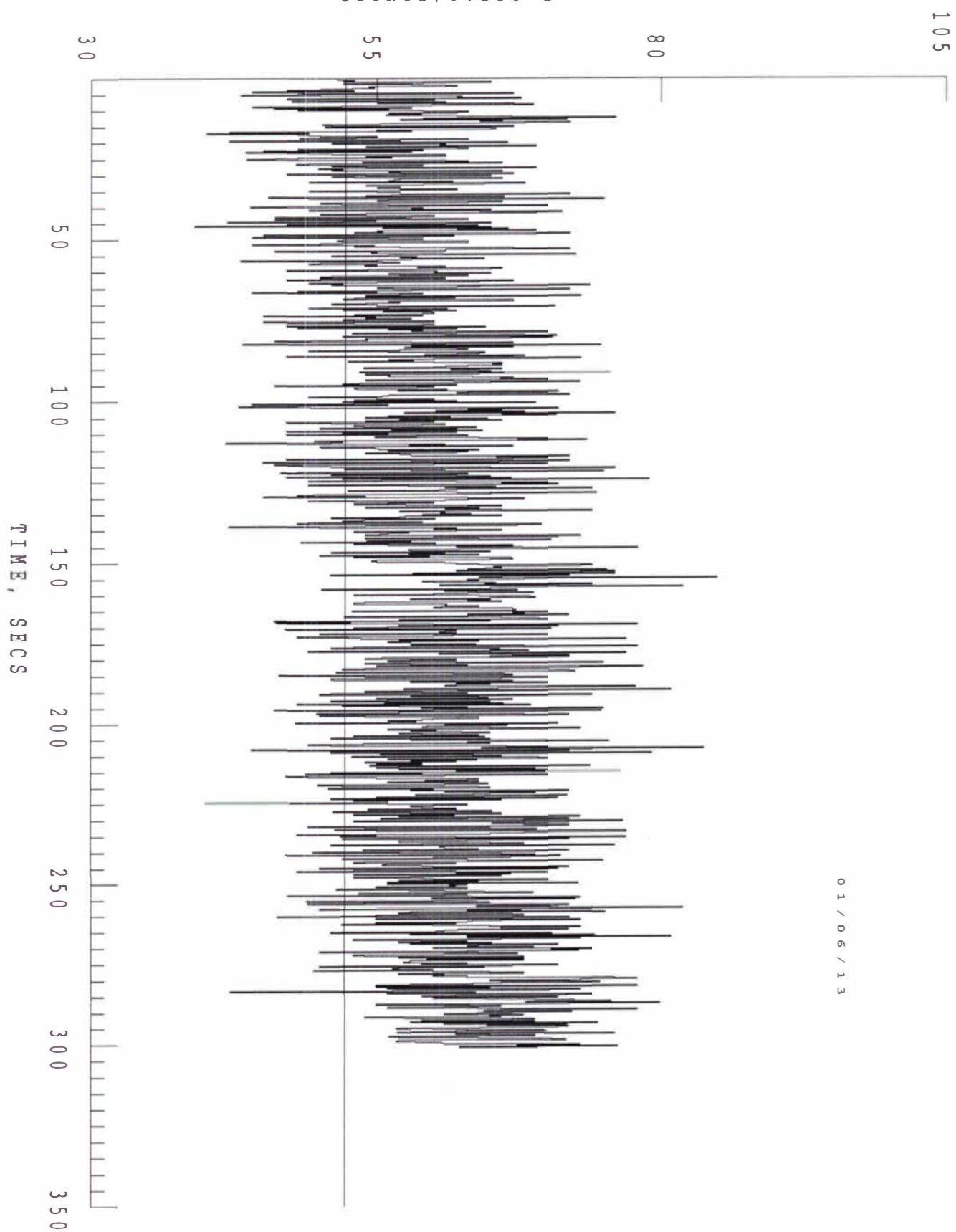


HESSI

30/05/13 61972.000 (GLAST_20130530_62123)

25- 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 130530_1715

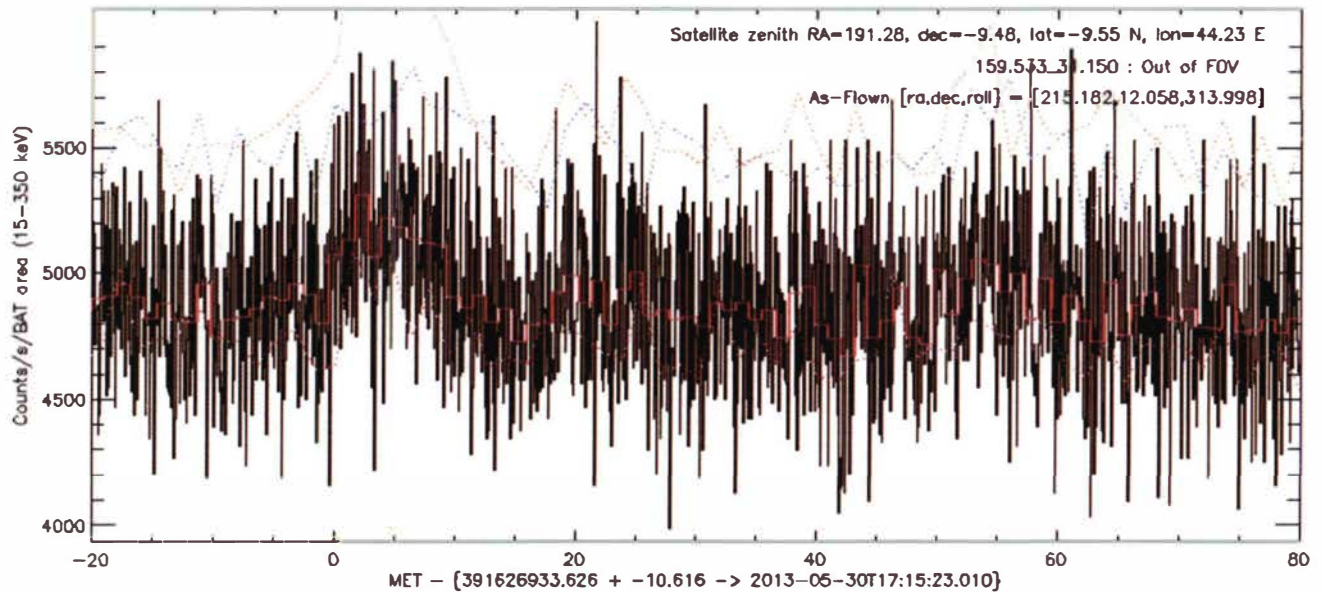
From: palmer+automatic_lightcurve@lanl.gov

Date: 5/30/2013 2:26 PM

To: jwren@lanl.gov, gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, vestrand@lanl.gov, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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/tmp/130530_1715.png



```
% /usr/local/bin/swinfo -o 391626933.626 -s 159.533_31.150
Time(MET + UTCF -> UT): 391626933.626 + -10.616 -> 2013-05-30T17:15:23.010
YYMMDD_SOD: 130530_62123.010 DOY=150
Swift Zenith(RA,dec): 191.28, -9.48
Swift Location(lon,lat,alt): 44.23 E, -9.55 N, 585 km
Obs Sequence Number: 00032625001
Obs Target Name: SDSS J142048.01+120545.9
Obs Date and Times: 2013-05-30 17:14:51 - 17:41:46
Obs Pointing(ra,dec,roll): 215.182, 12.058, 314.00
159.533_31.150_imageloc (boresight_dist, angle): (55, -104)
159.533_31.150_exposure (cm2 cos adjusted): 0
159.533_31.150_altitude: 63 (up)
```

--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

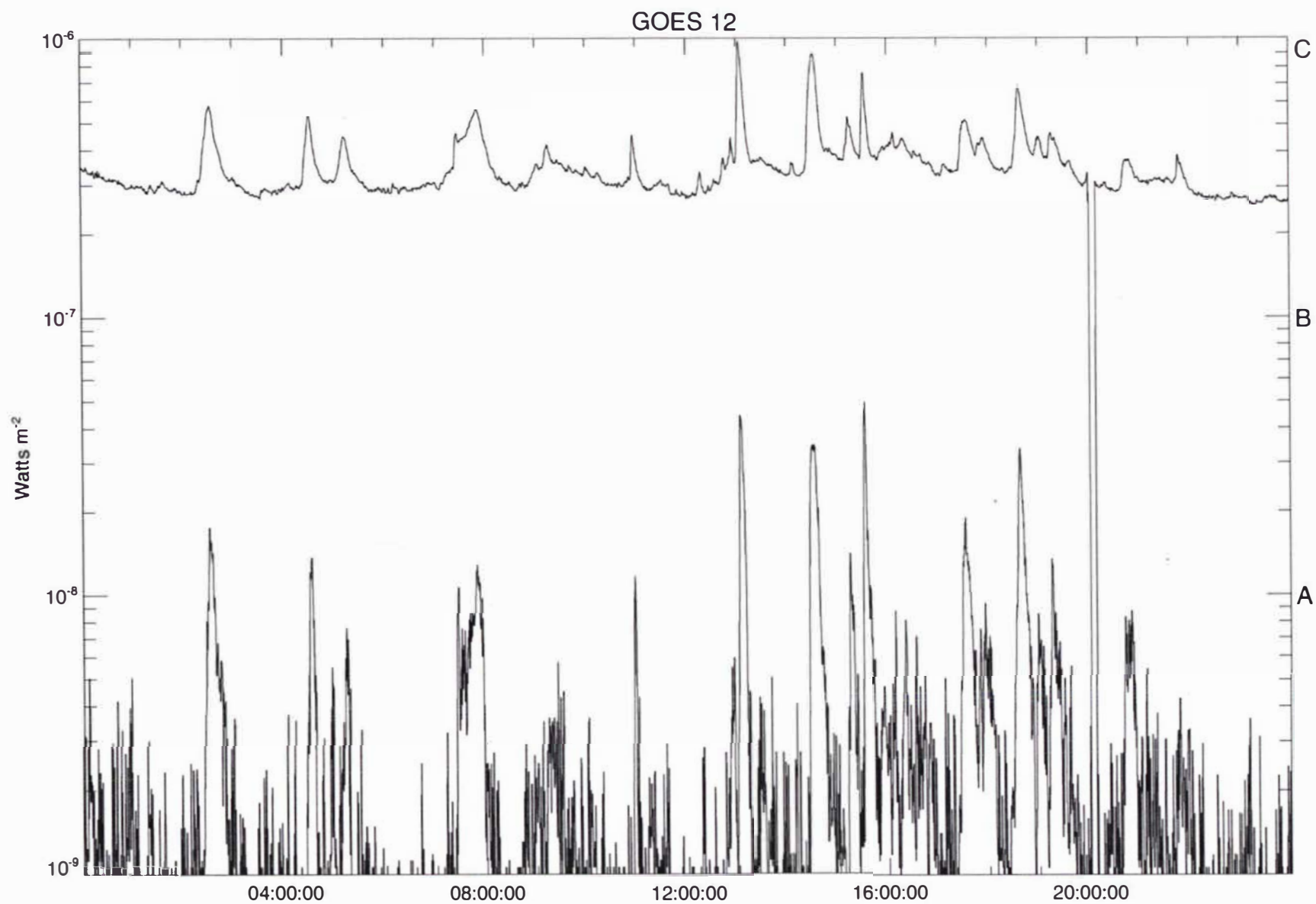
Attachments:

/tmp/130530_1715_bat64ms_ipn

27 bytes

/tmp/130530_1715.png

20.5 KB



Data Start: 13/05/30, 0000:11

Plot created: 13/06/02, 0830

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Sample average = 10