

C

From williams@gammaburst.ssl.berkeley.edu Fri Aug 5 02:34:48 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Fri, 5 Aug 2011 02:34:00 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu

subject: No_RHESSI_data_for_SWIFT_20110801_71382

X-Ucb-Scan-Signature: 7f3d53afa57affee9e42d1f6e14db97431d12b39

X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.804'

X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 5-Aug-2011 02:34:03.00
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

MS01

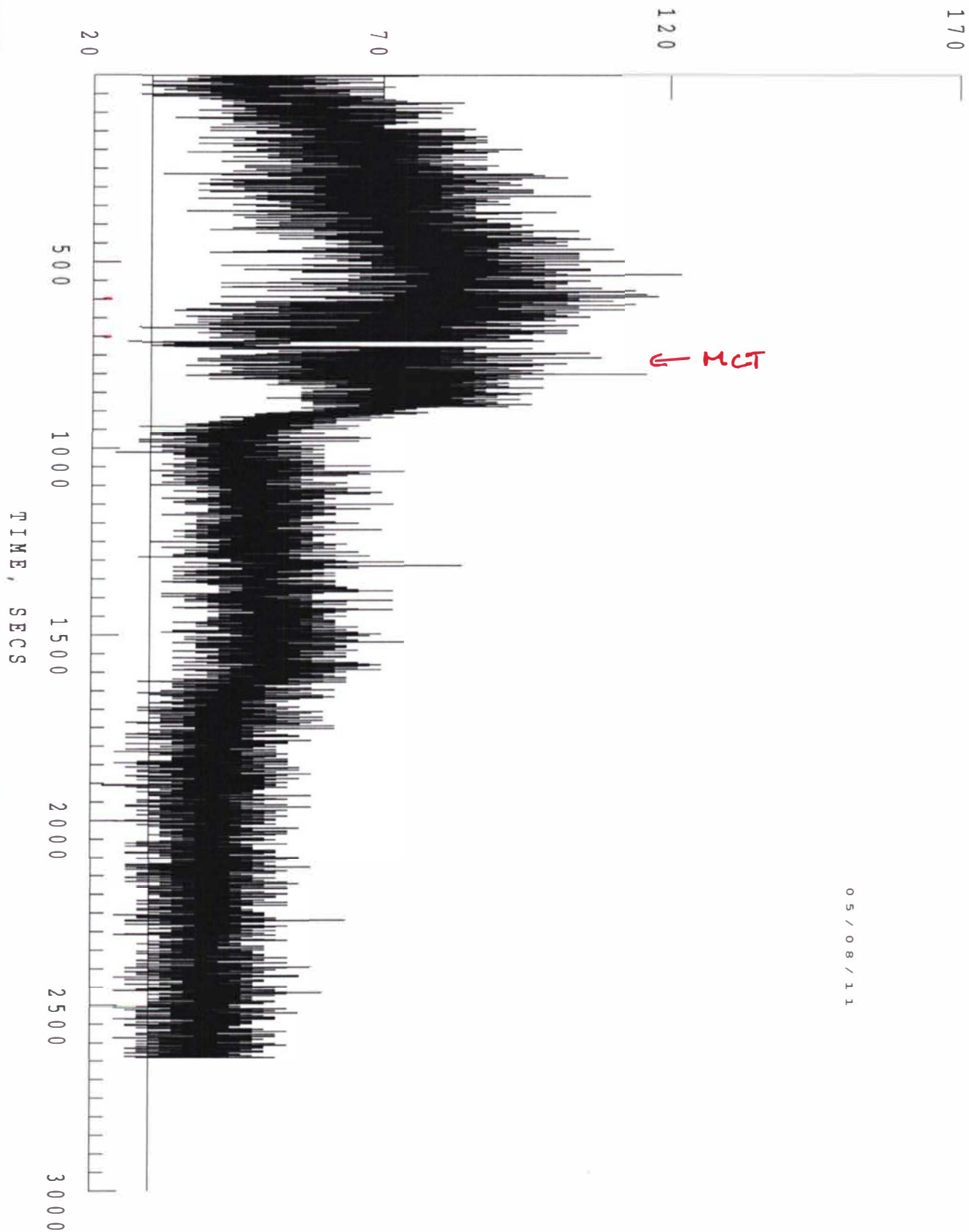
01/08/11

70053.100

C

50 - 3000 keV

COUNTS/0.250 S

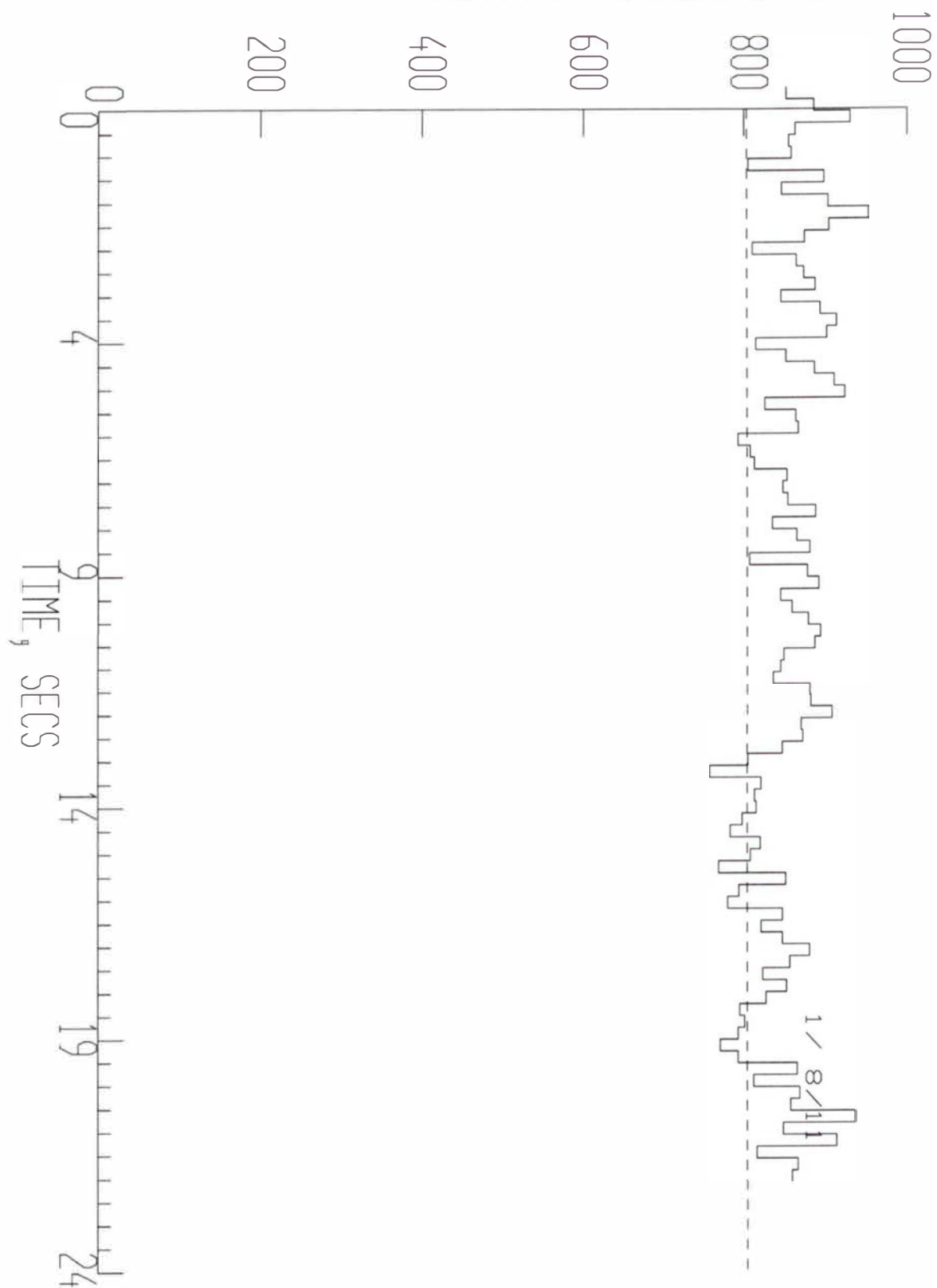


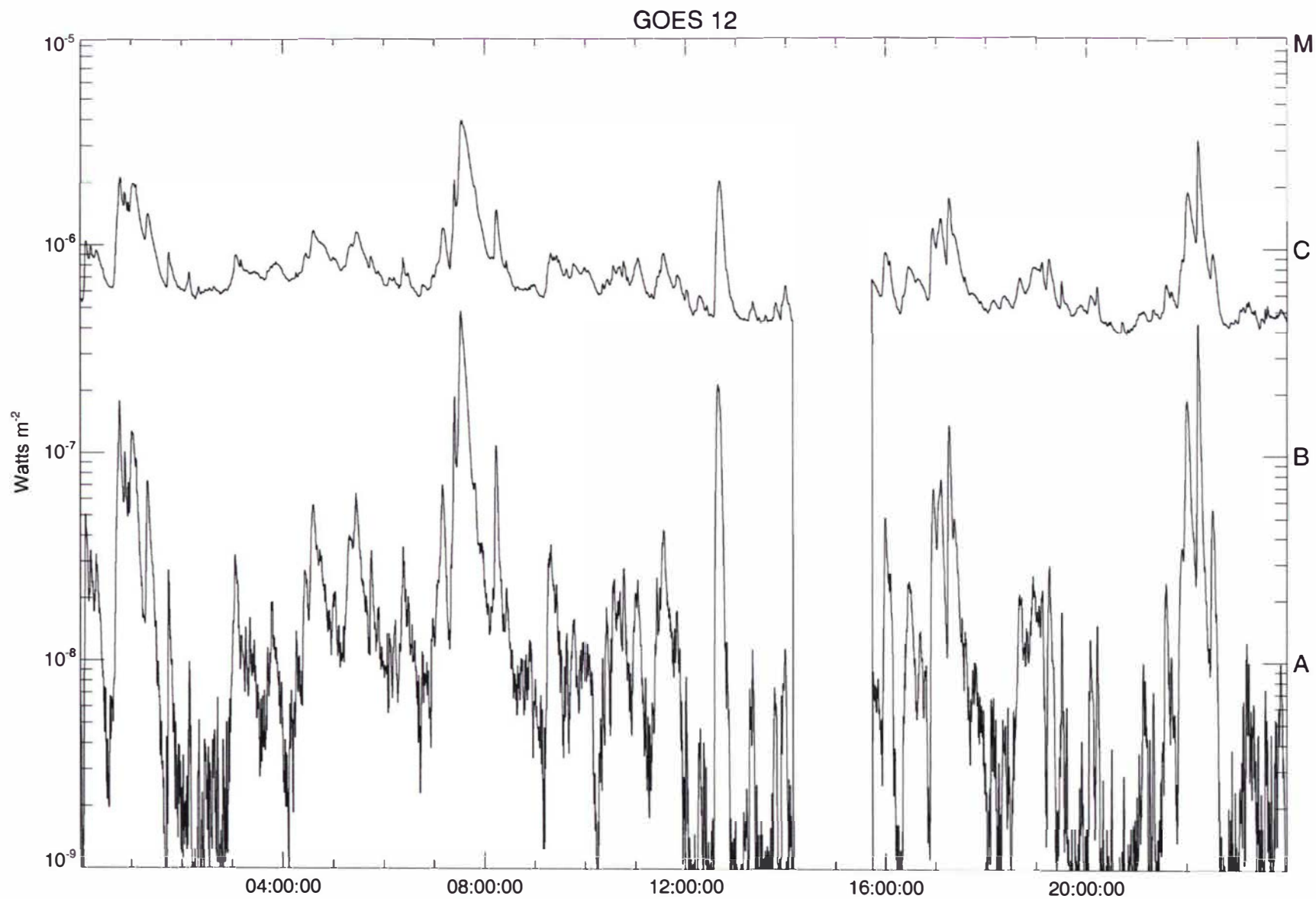
c

SWIFT 01/08/11 71382.991

25- 100 keV

COUNTS/0.256 S





Data Start: 11/08/01, 0000:09

Plot created: 11/08/04, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

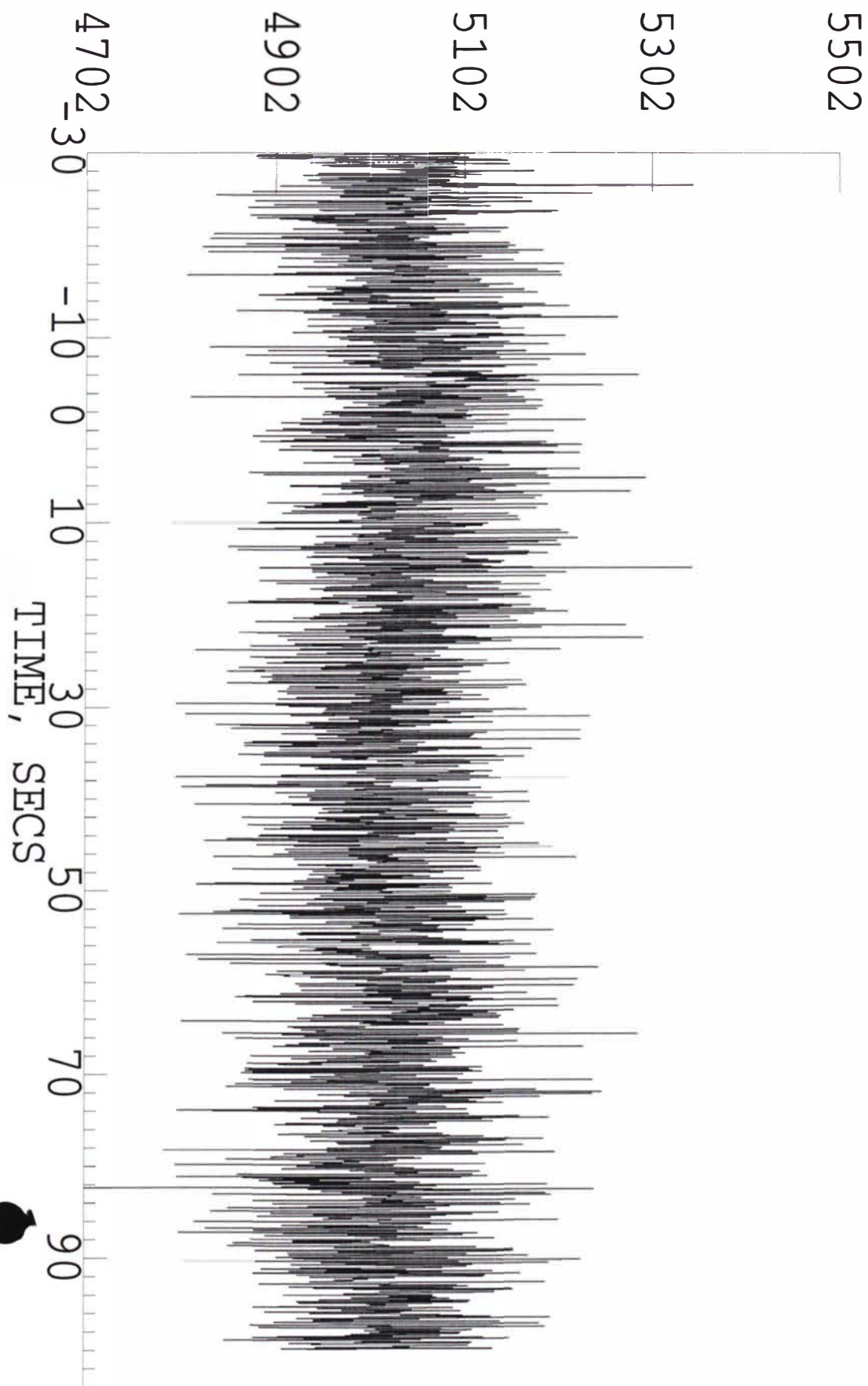
Sample average = 10

INTEGRAL 01/08/11 71381.977 19:49:41.9

C

100-10000 keV

COUNTS/ .050 S

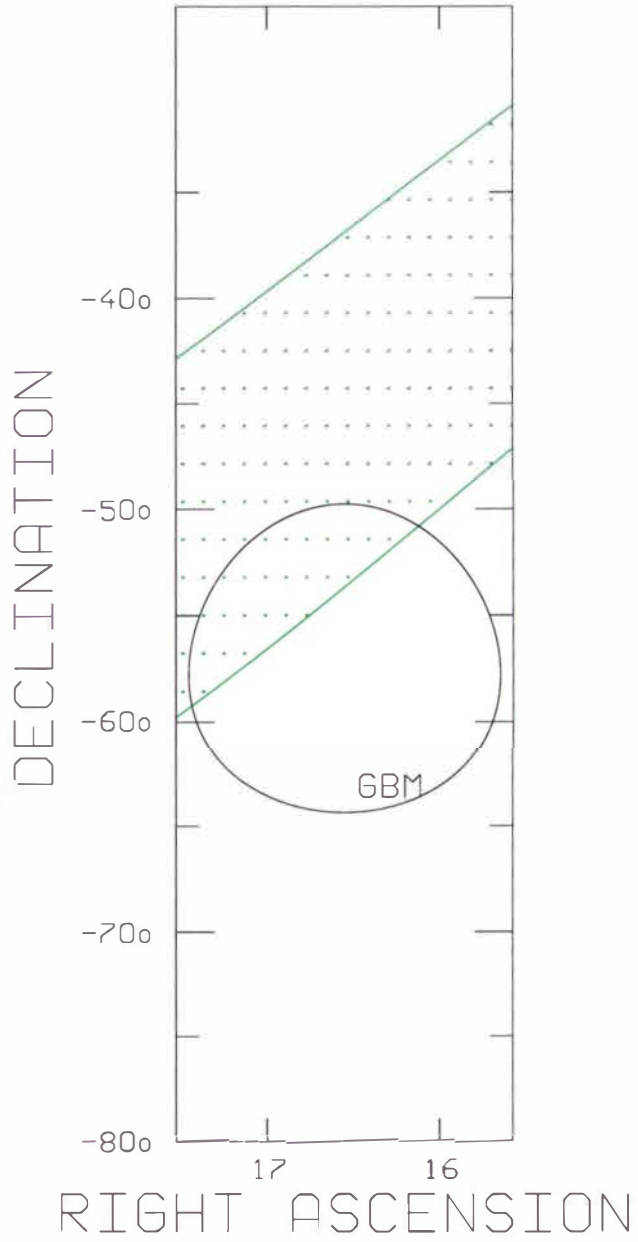


In ACCESS

B

GRB110801 ~28902 S

10/07/2020



From williams@gammaburst.ssl.berkeley.edu Mon Aug 1 22:00:45 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 1 Aug 2011 21:59:58 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
Cc: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20110801_03193
X-Ucb-Scan-Signature: 4903141b8c13a53052ce909ebf5eaeb05f17be22
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.806'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 1-Aug-2011 21:59:55.00
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

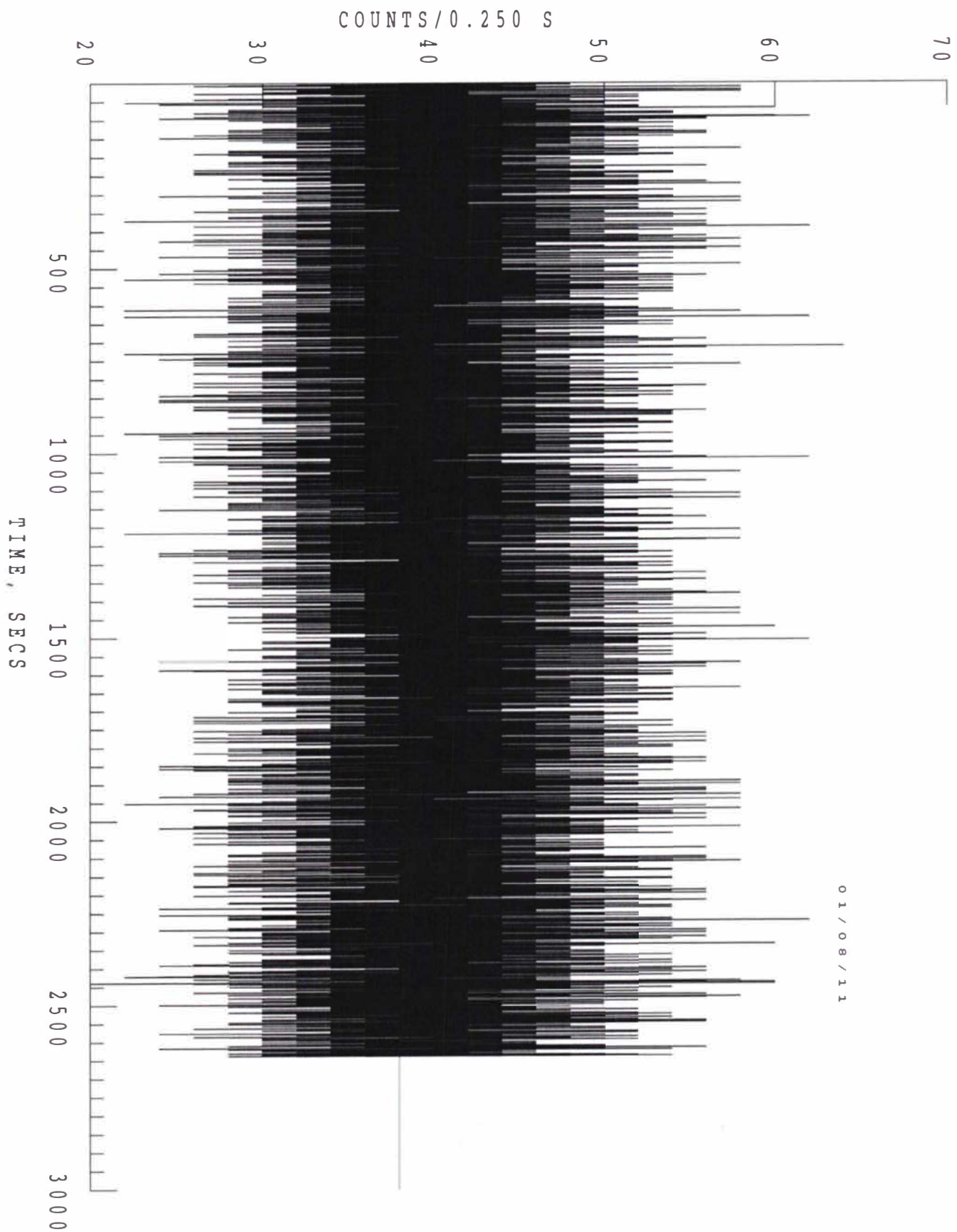
MS01

01/08/11

1834.241

A

50 - 3000 keV



A

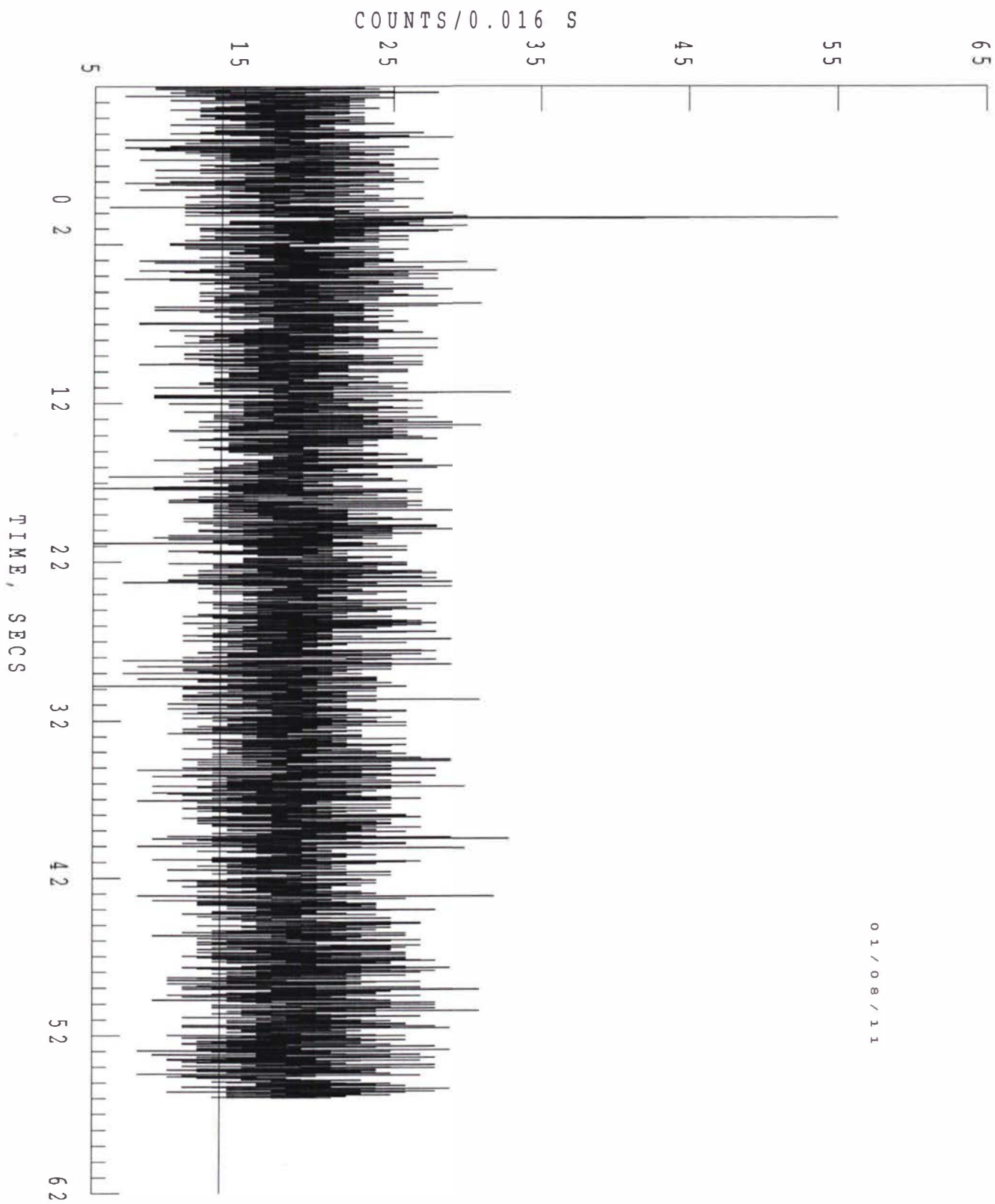
SUZAKU

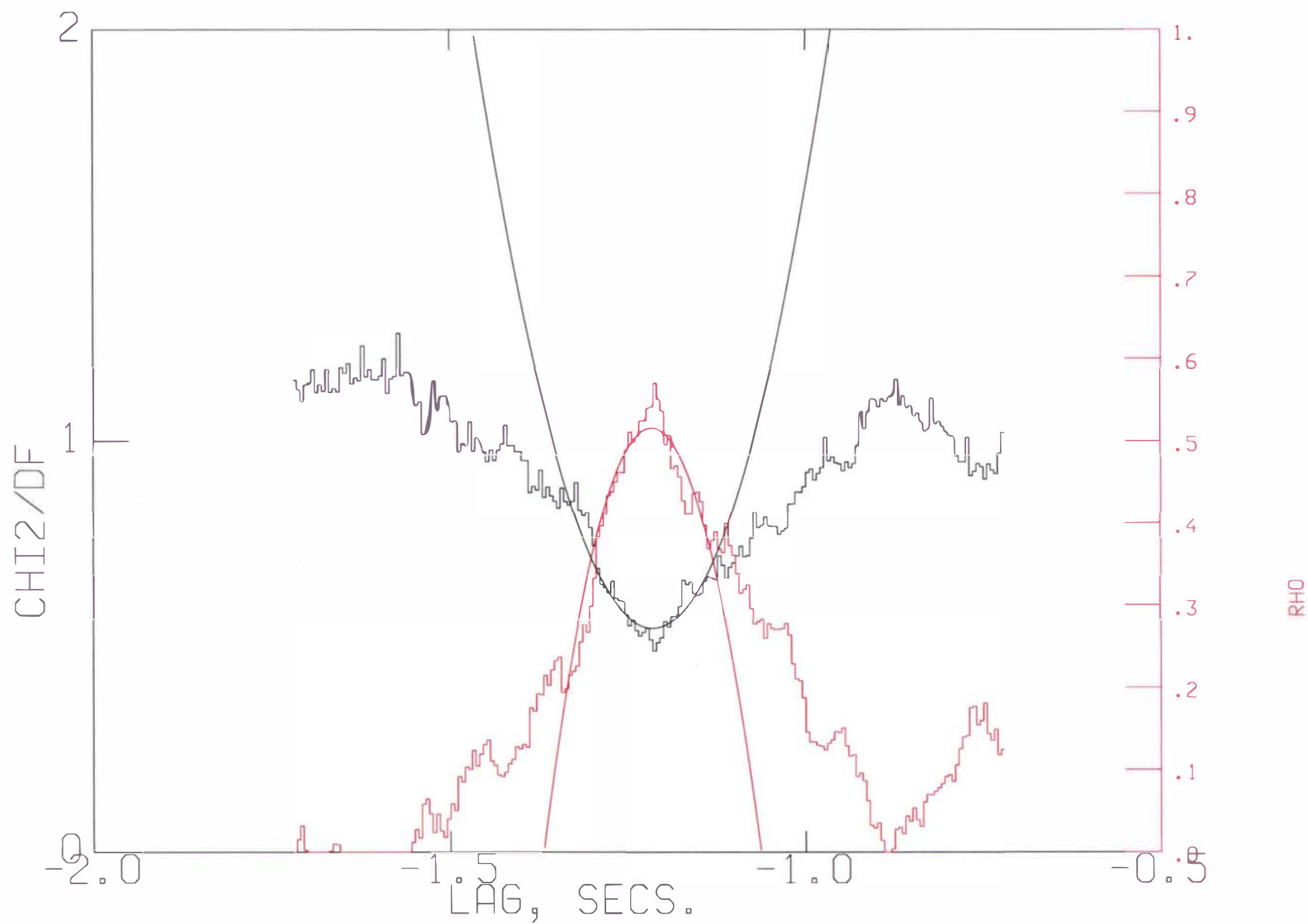
01/08/11

3193.706

00:53:13

50 - 240 keV





GLAST

01/08/11

28903.086

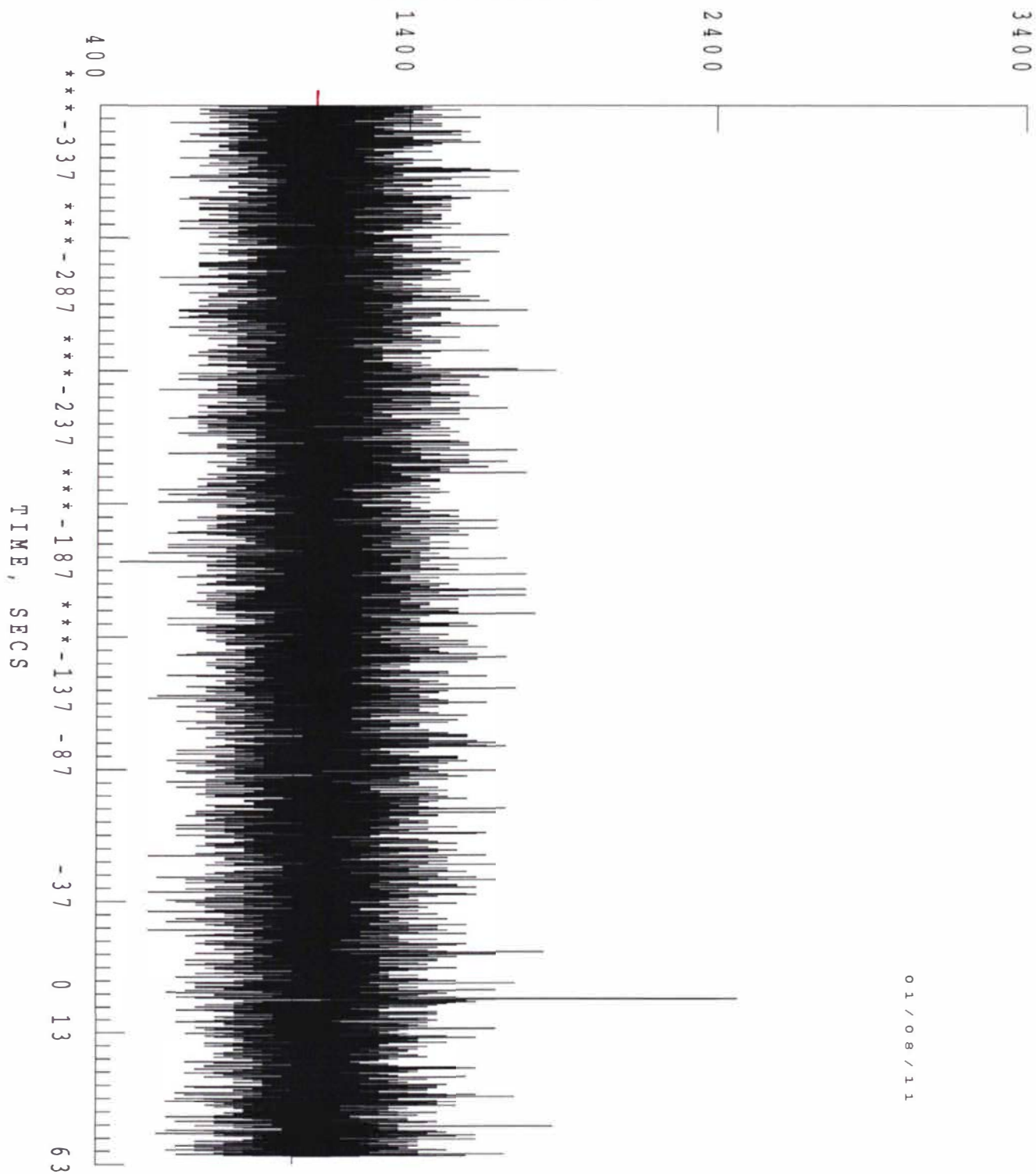
08:01:43

B

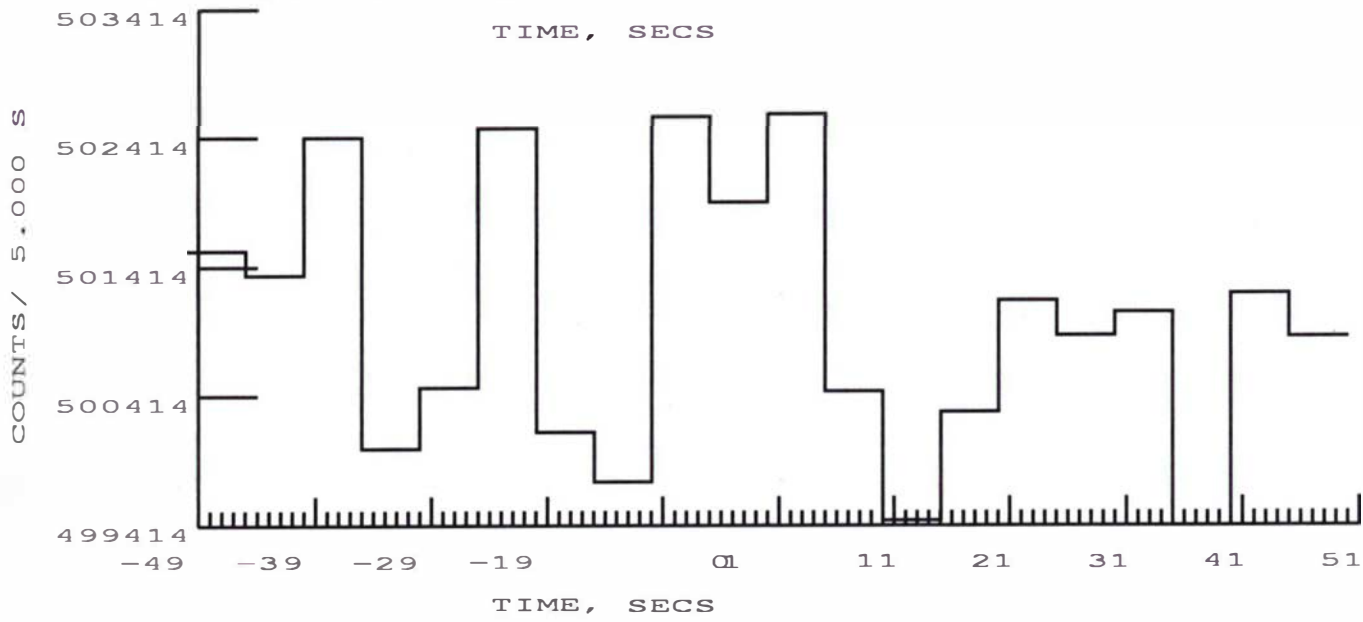
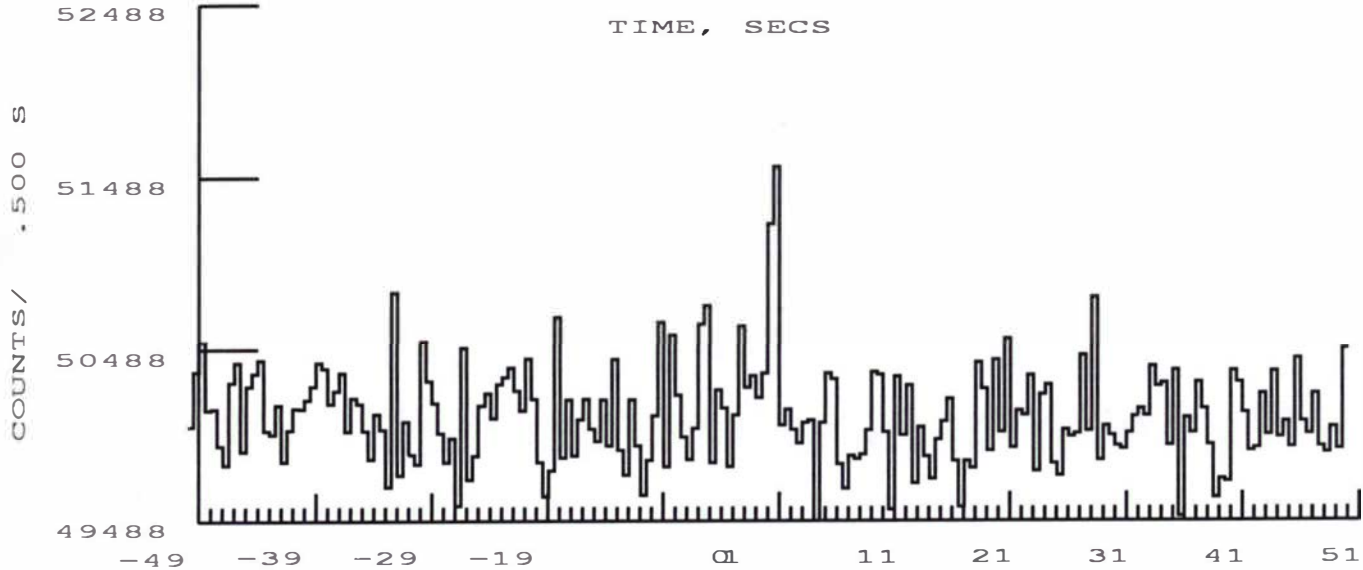
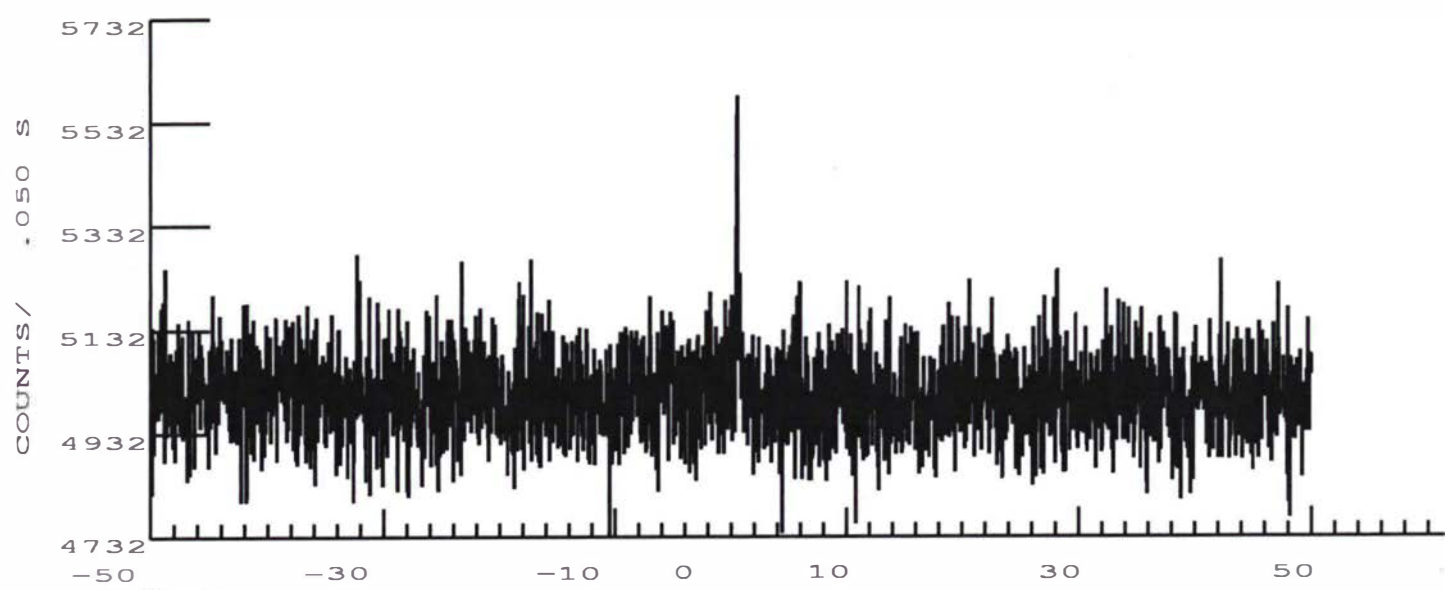
26 - 293 keV

248.3 -56.9 7.3

COUNTS/0.032 S



01/08/11



MS01

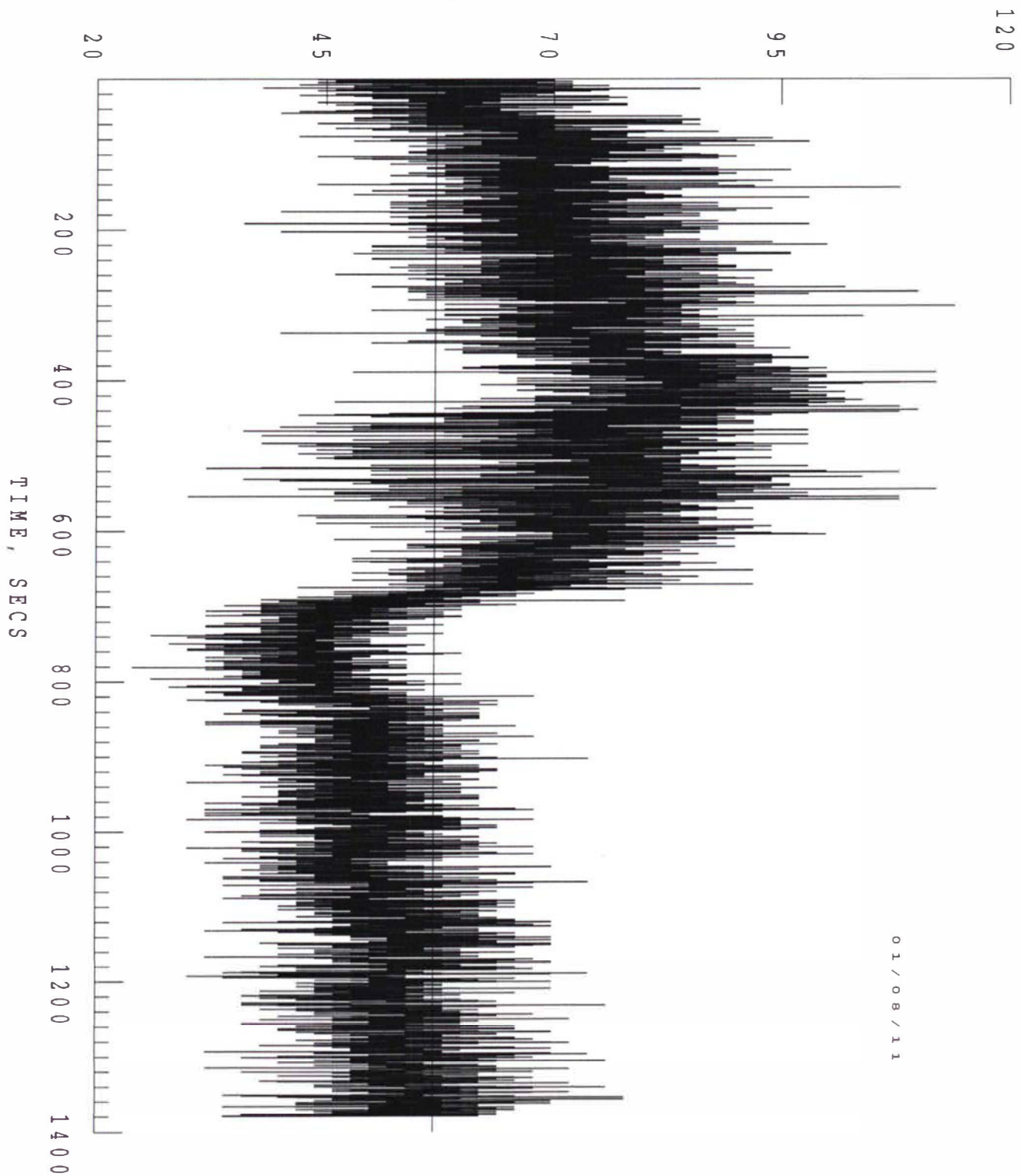
01/08/11

27573.814

B

50 - 3000 keV

COUNTS/0.250 S



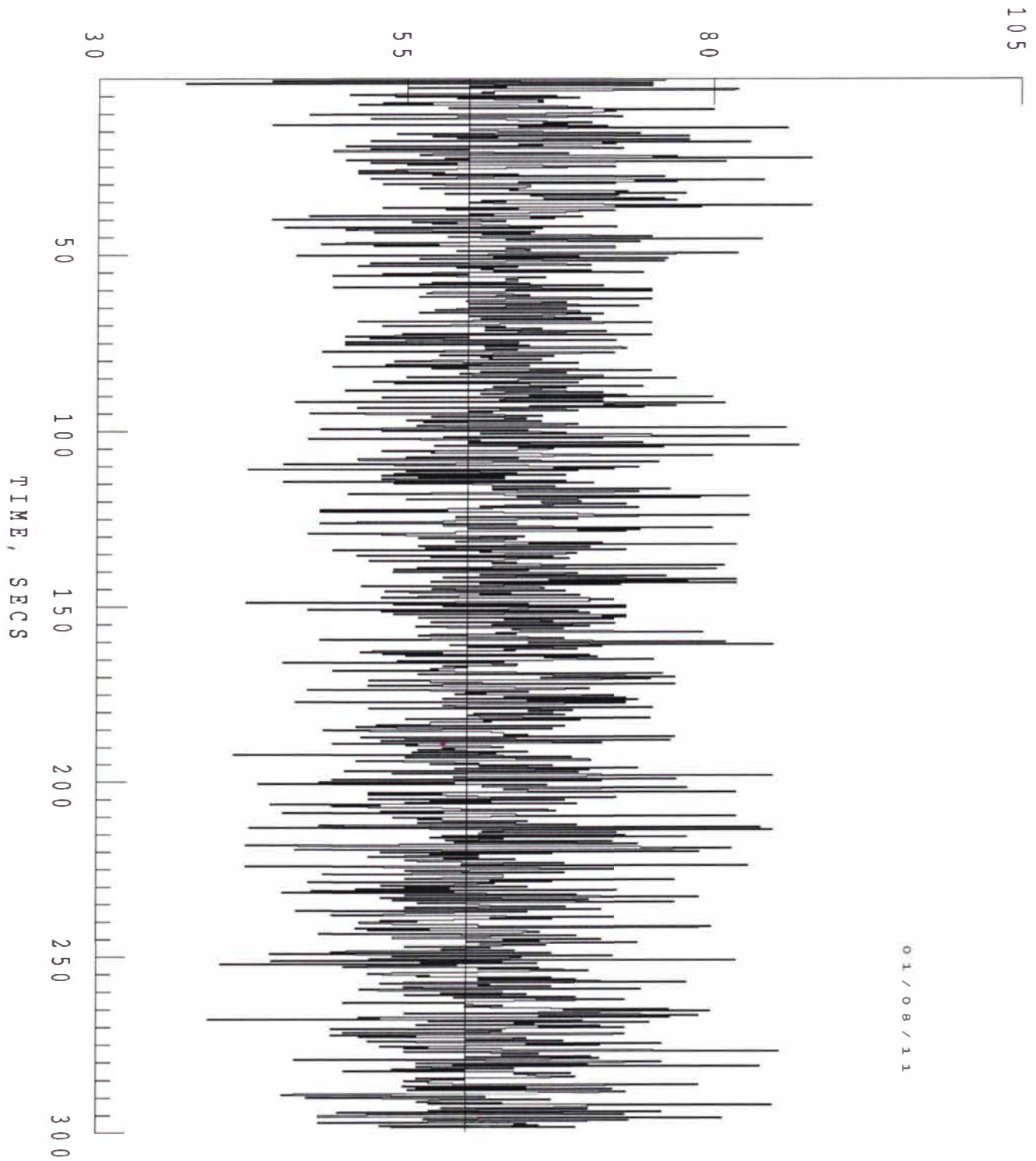
B

HESSI

01/08/11 28753.000 (GLAST_20110801_28903)

25- 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 110801_0801

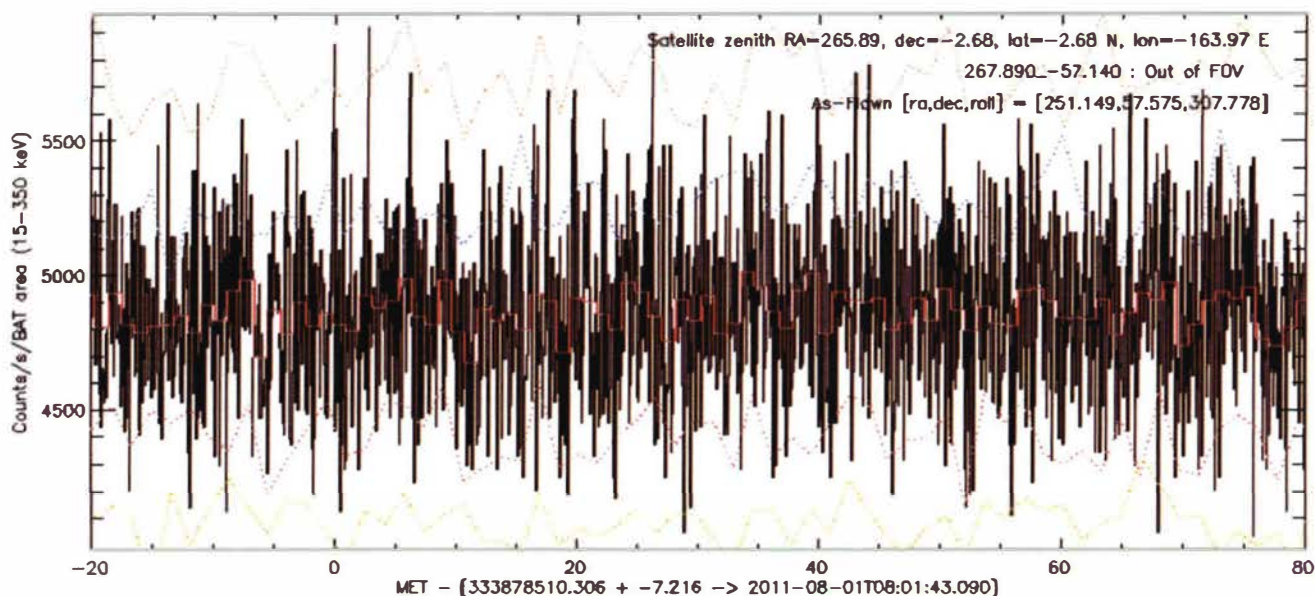
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 1 Aug 2011 06:26:38 -0600 (MDT)

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

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

/tmp/110801_0801.png



```
% /usr/local/bin/swinfo -o 333878510.306 -s 248.033 -62.333
Time(MET + UTC -> UT): 333878510.306 + -7.216 -> 2011-08-01T08:01:43.090
Swift Zenith(RA,dec): 265.89, -2.68
Swift Location(lon,lat,alt): -163.97 E, -2.68 N, 577 km
Obs Sequence Number: 00031955128
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2011-08-01 07:48:54 - 08:03:51
Obs Pointing(ra,dec,roll): 251.149, 57.575, 307.78
248.033_-62.333_imageloc (boresight_dist, angle): (120, 144)
248.033_-62.333_exposure (cm^2 cos adjusted): 0
248.033_-62.333_altitude: 52 (up)

% /usr/local/bin/swinfo -o 333878510.306 -s 267.890 -57.140
Time(MET + UTC -> UT): 333878510.306 + -7.216 -> 2011-08-01T08:01:43.090
Swift Zenith(RA,dec): 265.89, -2.68
Swift Location(lon,lat,alt): -163.97 E, -2.68 N, 577 km
Obs Sequence Number: 00031955128
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2011-08-01 07:48:54 - 08:03:51
Obs Pointing(ra,dec,roll): 251.149, 57.575, 307.78
267.890_-57.140_imageloc (boresight_dist, angle): (115, 132)
267.890_-57.140_exposure (cm^2 cos adjusted): 0
267.890_-57.140_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

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

/tmp/110801_0801_bat64ms_ipn Content-Type: application/octet-stream

Content-Encoding: base64

/tmp/110801_0801.png

/tmp/110801_0801.png	Content-Type: image/png
	Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

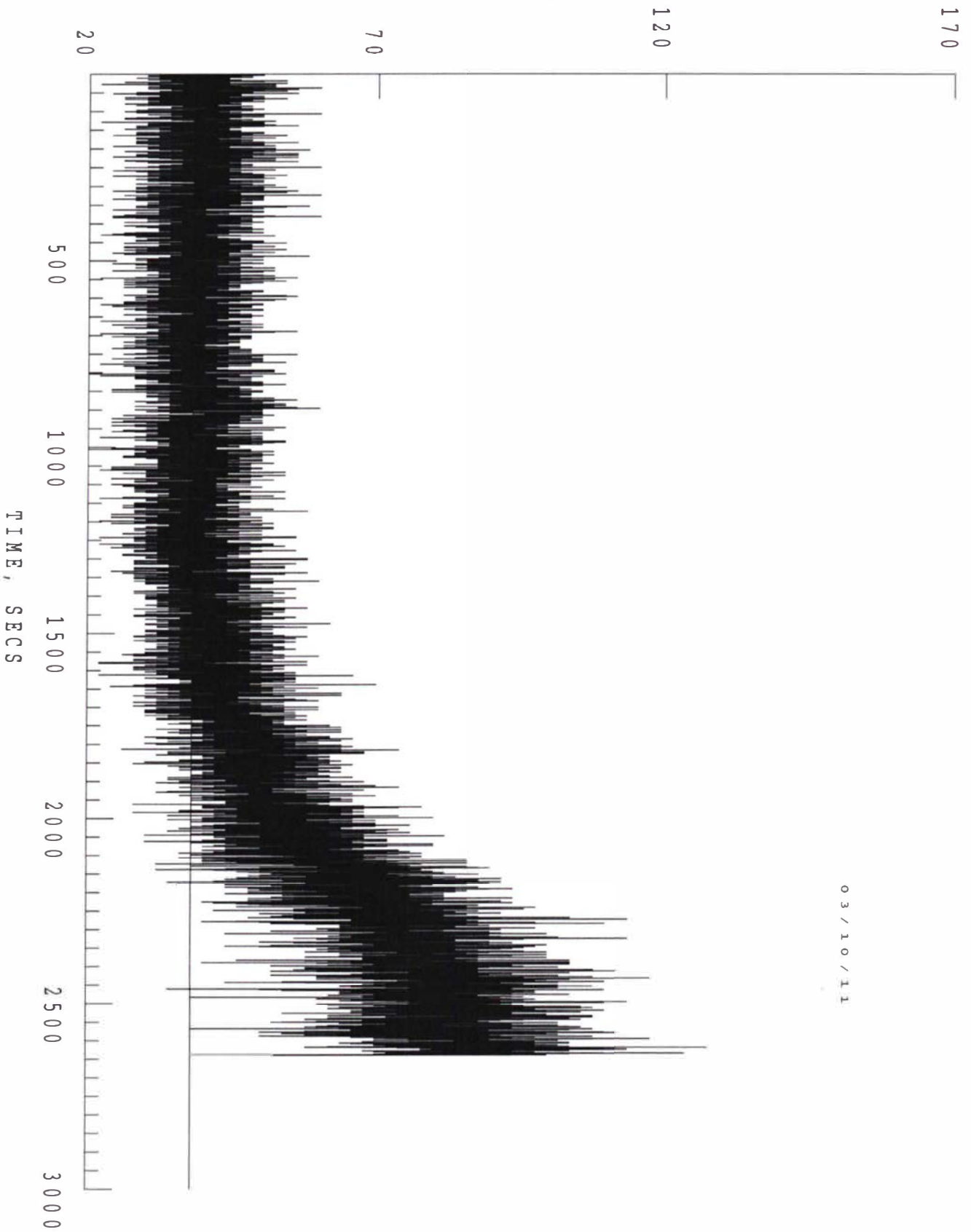
MS01

01/08/11

53793.373

50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Mon Oct 3 23:03:39 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 3 Oct 2011 23:03:08 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for SUZAKU 20110801_55125
X-Ucb-Scan-Signature: 64ad35ee6d65040e01945b806d0b85bfeb8b2313
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 3-Oct-2011 23:05:02.00
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

C

From vxw@capella2.gsfc.nasa.gov Mon Aug 1 12:53:37 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Mon, 1 Aug 2011 15:54:02 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
o: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 063803d03c0f6f88c3dbc563f3893d96acb332d7
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.806'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE:	GCN/SWIFT NOTICE	
NOTICE_DATE:	Mon 01 Aug 11 19:53:37 UT	385 s
NOTICE_TYPE:	Swift-BAT GRB Lightcurve	$4.7 \times 10^{-6} \text{ erg cm}^{-2}$
TRIGGER_NUM:	458521, Seg_Num: 0	1.1 phot/cm ² s
GRB_RA:	89.285d {+05h 57m 08s} (J2000), 89.840d {+05h 59m 22s} (current), 86.891d {+05h 47m 34s} (1950)	
GRB_DEC:	+80.988d {+80d 59' 18"} (J2000), +80.989d {+80d 59' 20"} (current), +80.979d {+80d 58' 45"} (1950)	
GRB_DATE:	15774 TJD; 213 DOY; 11/08/01	
GRB_TIME:	71382.99 SOD {19:49:42.99} UT	
TRIGGER_INDEX:	298	
GRB_PHI:	-132.13 [deg]	
GRB_THETA:	25.30 [deg]	
DELTA_TIME:	19.00 [sec]	
TRIGGER_DUR:	4.096 [sec]	
SOLN_STATUS:	0x3	
RATE_SIGNIF:	8.83 [sigma]	
IMAGE_SIGNIF:	7.83 [sigma]	
URL:	sw00458521000msb.lc	
SUN_POSTN:	131.66d {+08h 46m 38s} +17.95d {+17d 56' 50"} 65.46 [deg] Sun_angle= 2.8 [hr] (West of Sun)	
MOON_POSTN:	156.71d {+10h 26m 51s} +4.48d {+04d 28' 39"} 82.04 [deg]	
MOON_DIST:		
MOON_ILLUM:	6 [%]	
GAL_COORDS:	132.58, 24.69 [deg] galactic lon,lat of the burst (or transient	
ECL_COORDS:	89.79, 57.55 [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 = 147.48,16.92 [deg	

GLAST

02/08/11

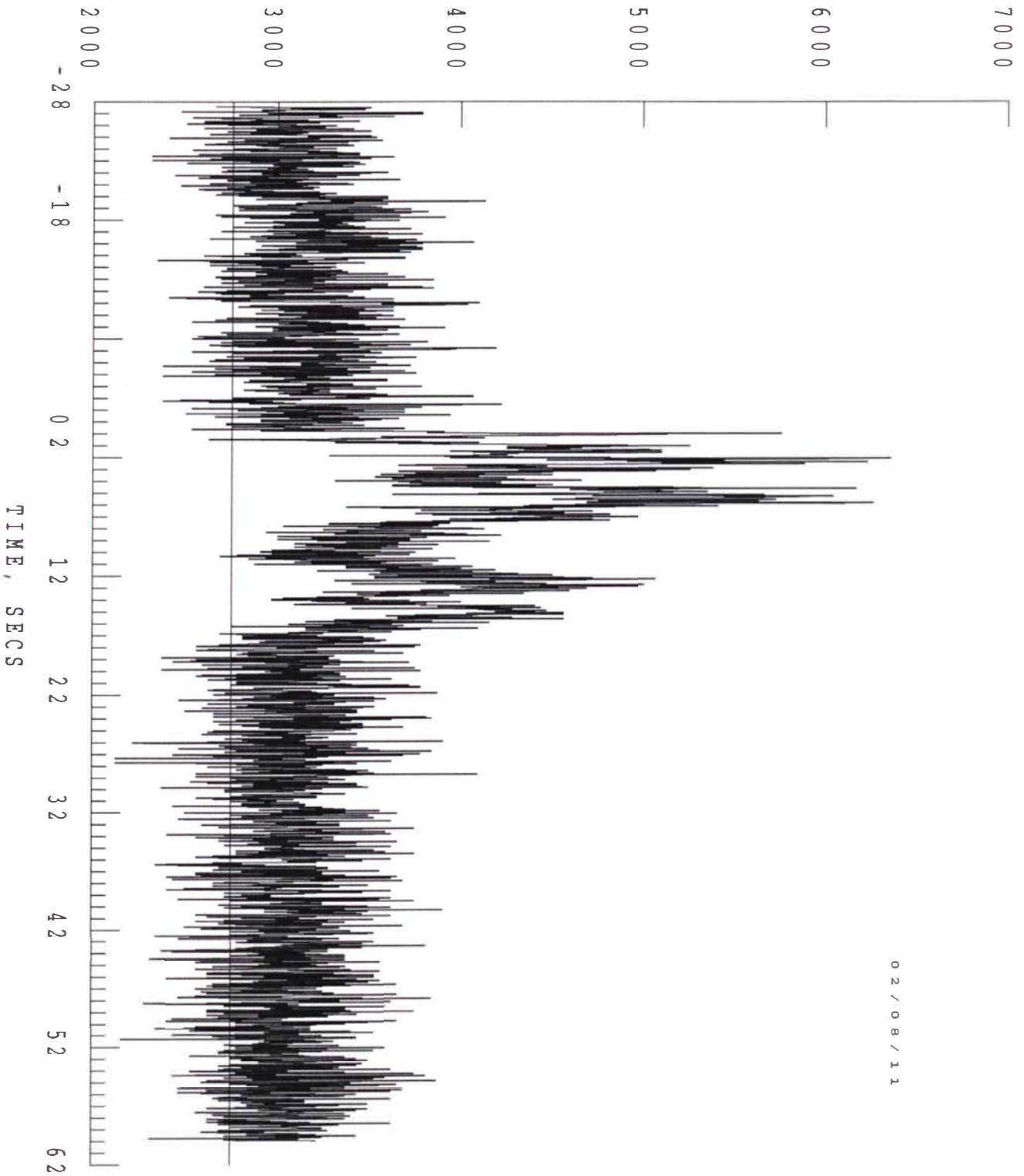
14391.765

26 - 293 keV

Solar

A

COUNTS/0.032 S



MS01

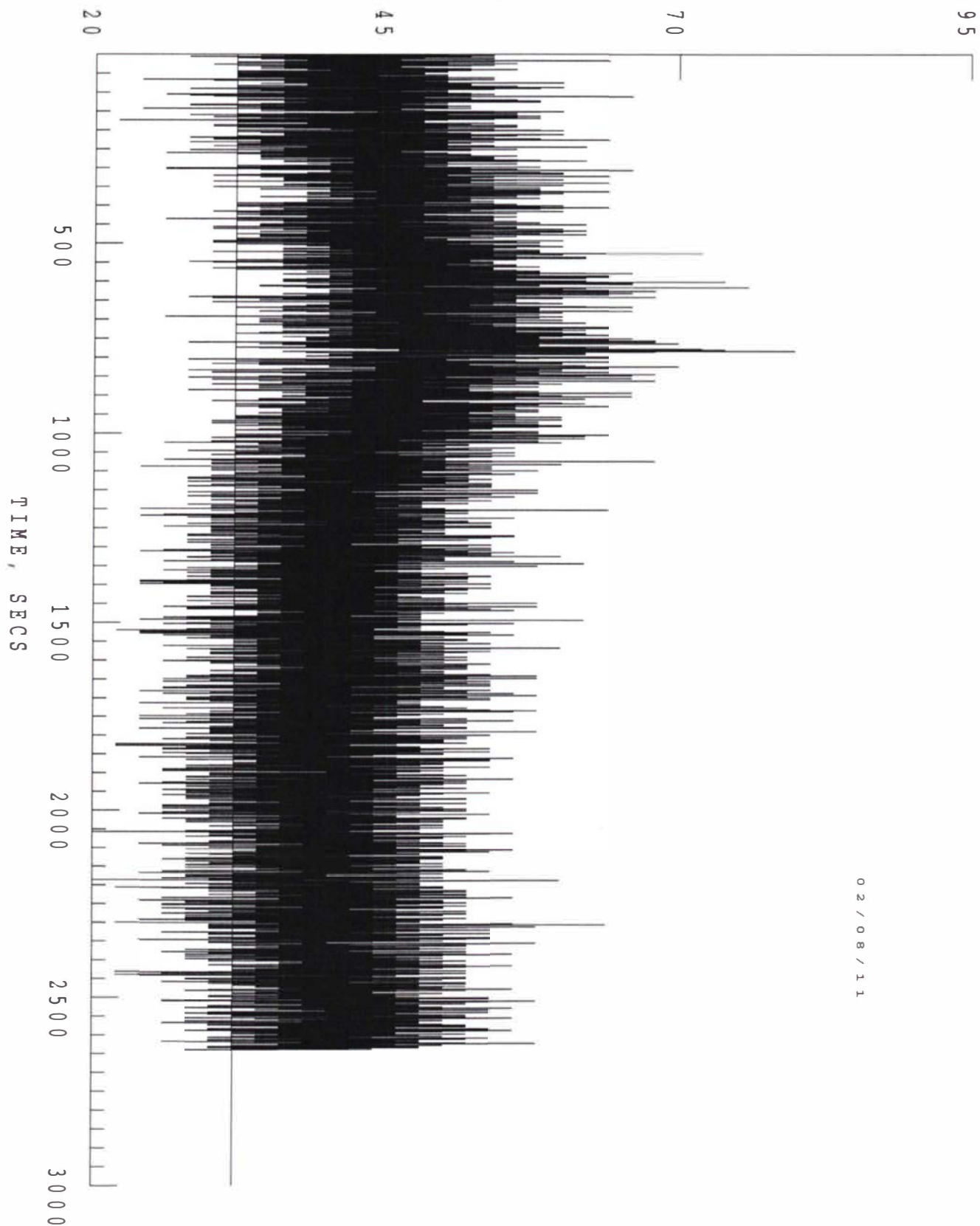
02/08/11

13052.610

A

50 - 3000 keV

COUNTS/0.250 S



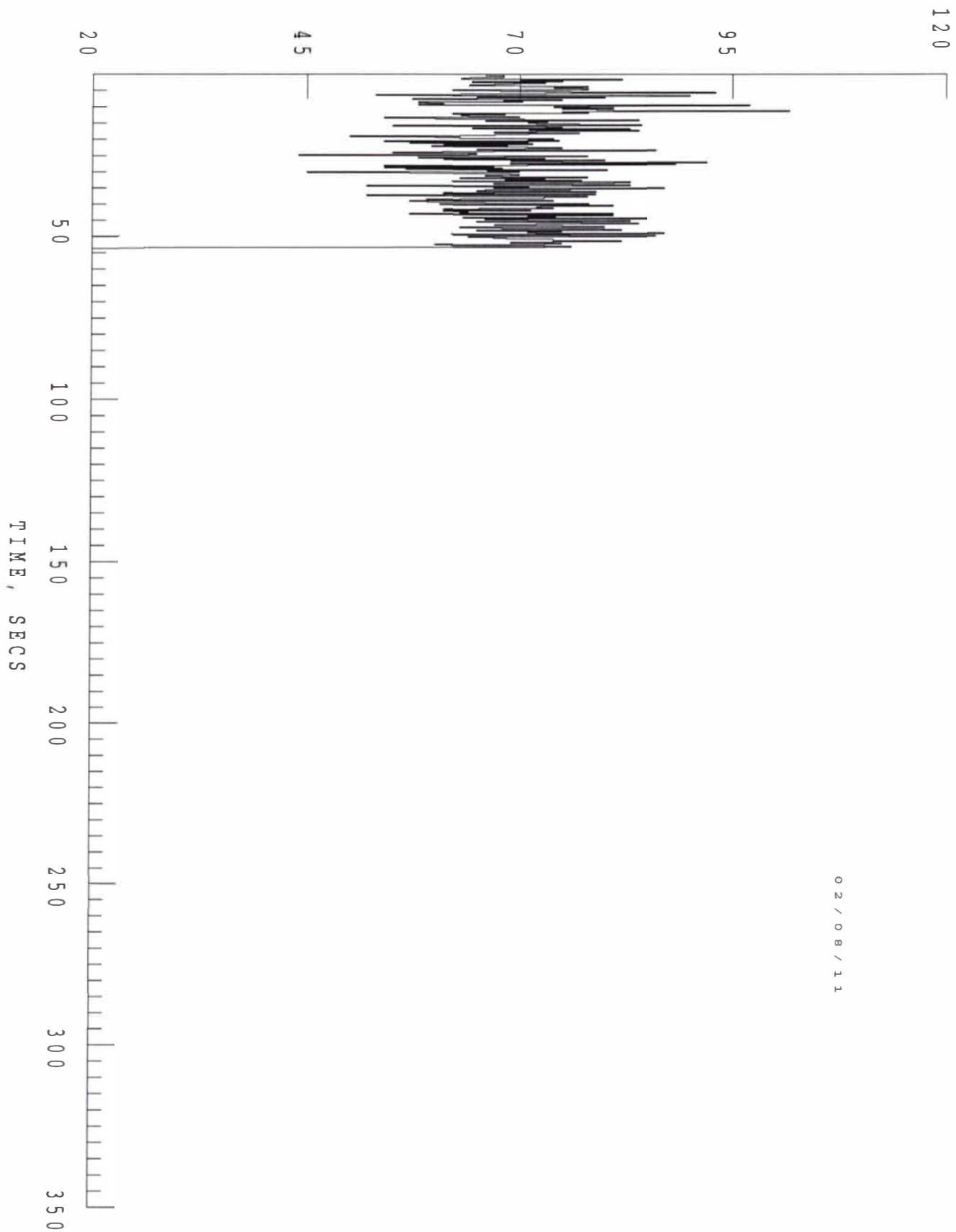
HESSI

02/08/11 14241.000 (GLAST_20110802_14391)

A

25 - 150 keV

COUNTS/0.250 S



02/08/11

Subject: [Ipn] BAT lightcurve for trigger at 110802_0359

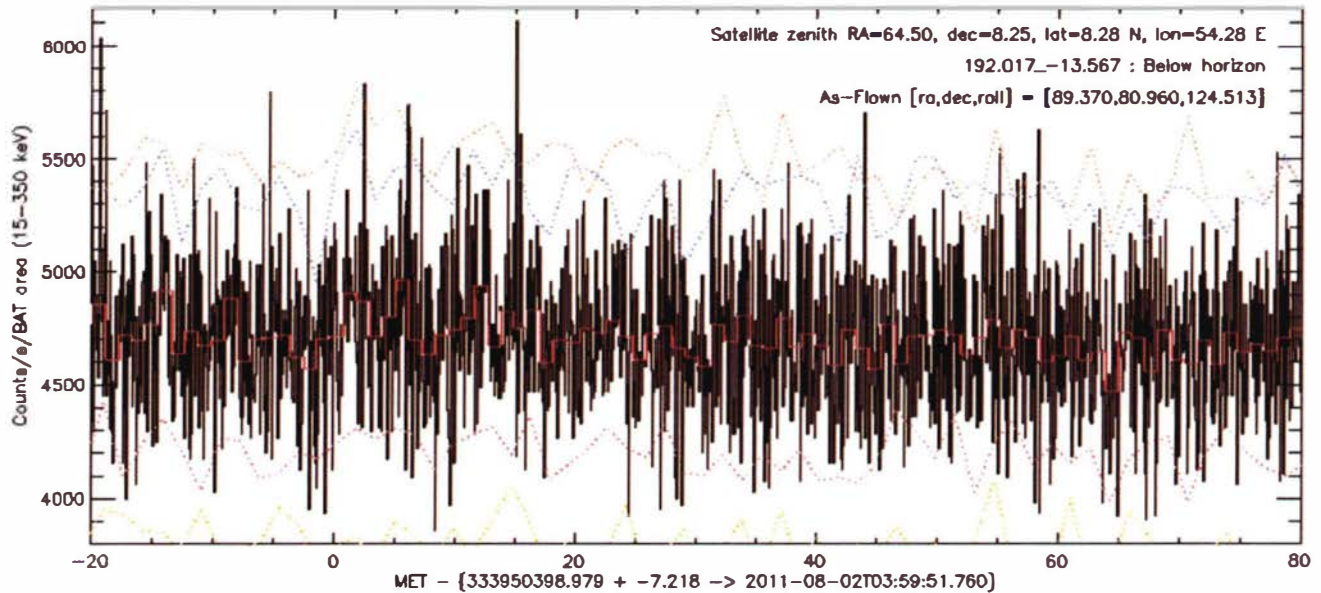
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 2 Aug 2011 08:05:43 -0600 (MDT)

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

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

/tmp/110802_0359.png



```
% /usr/local/bin/swinfo -o 333950398.978 -s 123.467 19.167
Time(MET + UTCF -> UT): 333950398.979 + -7.218 -> 2011-08-02T03:59:51.760
Swift Zenith(RA,dec): 64.50, 8.25
Swift Location(lon,lat,alt): 54.28 E, 8.28 N, 594 km
Obs Sequence Number: 00458521001
Obs Target Name: N/A
Obs Date and Times: 2011-08-02 03:56:54 - 04:09:38
Obs Pointing(ra,dec,roll): 89.370, 80.960, 124.51
123.467_19.167_imageloc (boresight_dist, angle): (63, -71)
123.467_19.167_exposure (cm² cos adjusted): 0
123.467_19.167_altitude: 56 (up)
```

```
% /usr/local/bin/swinfo -o 333950398.978 -s 192.017 -13.567
Time(MET + UTCF -> UT): 333950398.979 + -7.218 -> 2011-08-02T03:59:51.760
Swift Zenith(RA,dec): 64.50, 8.25
Swift Location(lon,lat,alt): 54.28 E, 8.28 N, 594 km
Obs Sequence Number: 00458521001
Obs Target Name: N/A
Obs Date and Times: 2011-08-02 03:56:54 - 04:09:38
Obs Pointing(ra,dec,roll): 89.370, 80.960, 124.51
192.017_-13.567_imageloc (boresight_dist, angle): (105, -135)
192.017_-13.567_exposure (cm² cos adjusted): 0
192.017_-13.567_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>

/tmp/110802_0359_bat64ms_ipn Content-Type: application/octet-stream

Content-Encoding: base64

/tmp/110802_0359.png

/tmp/110802_0359.png	Content-Type: image/png
	Content-Encoding: base64

Part 1.4

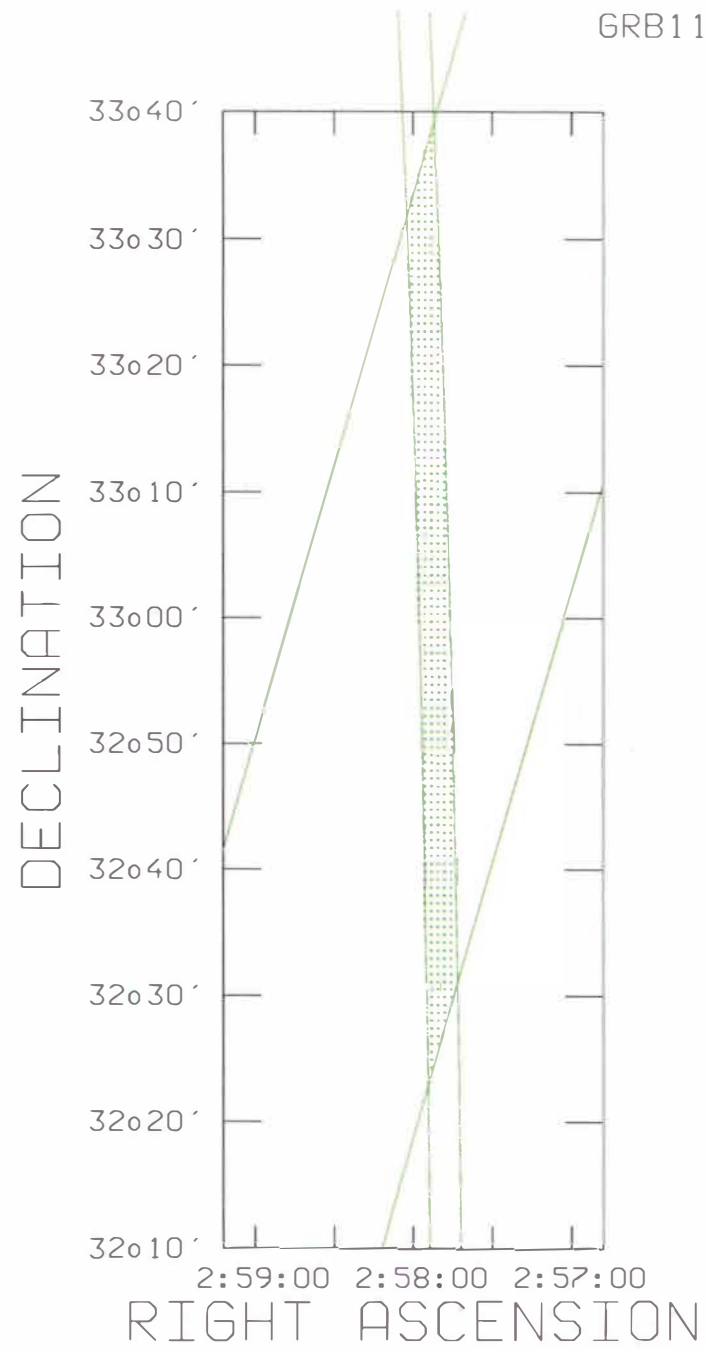
Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

GRB110802 ~55157 S

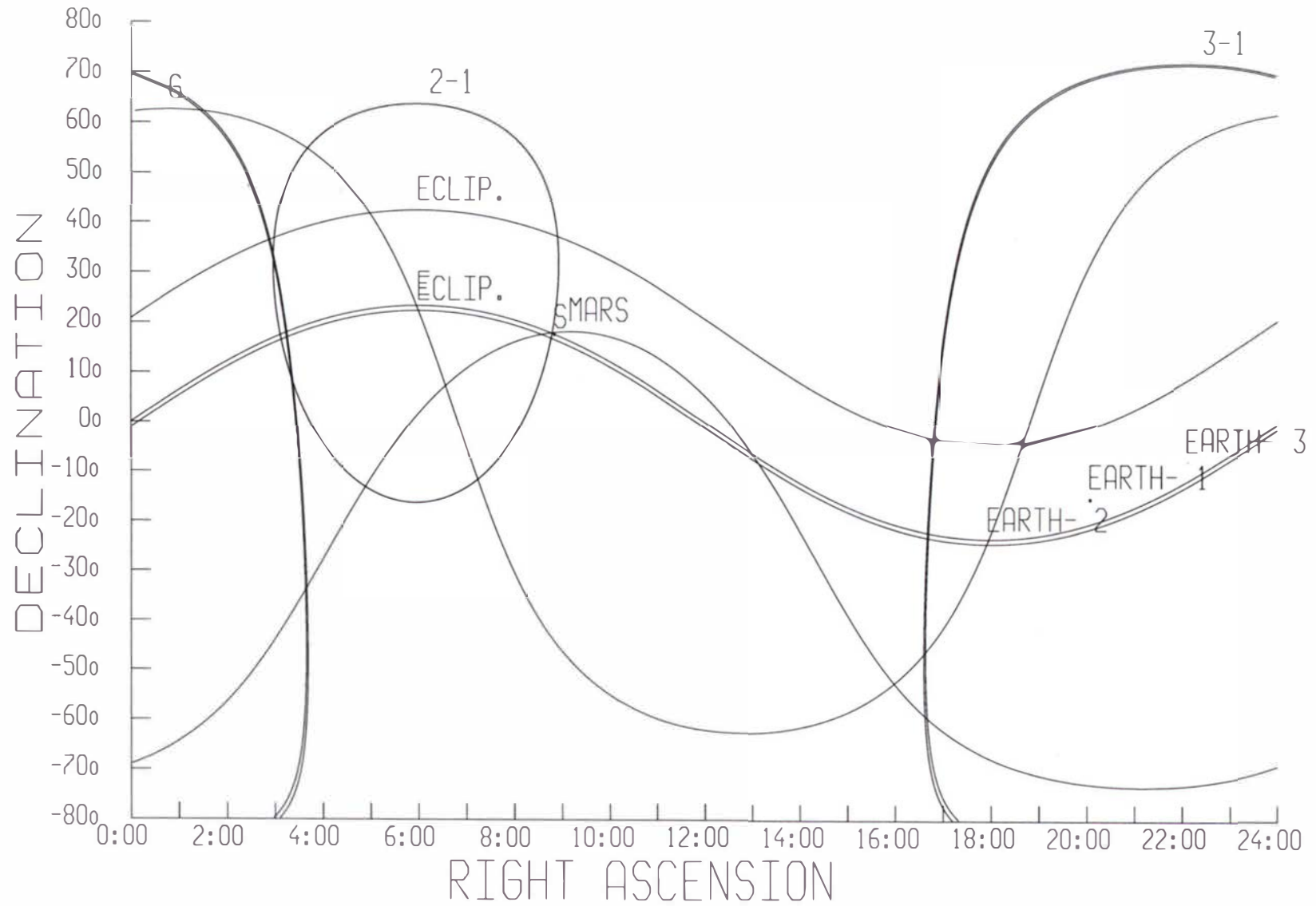
15/03/2013



EVENT OF AUG 2, 2011 15:19

15/03/2013

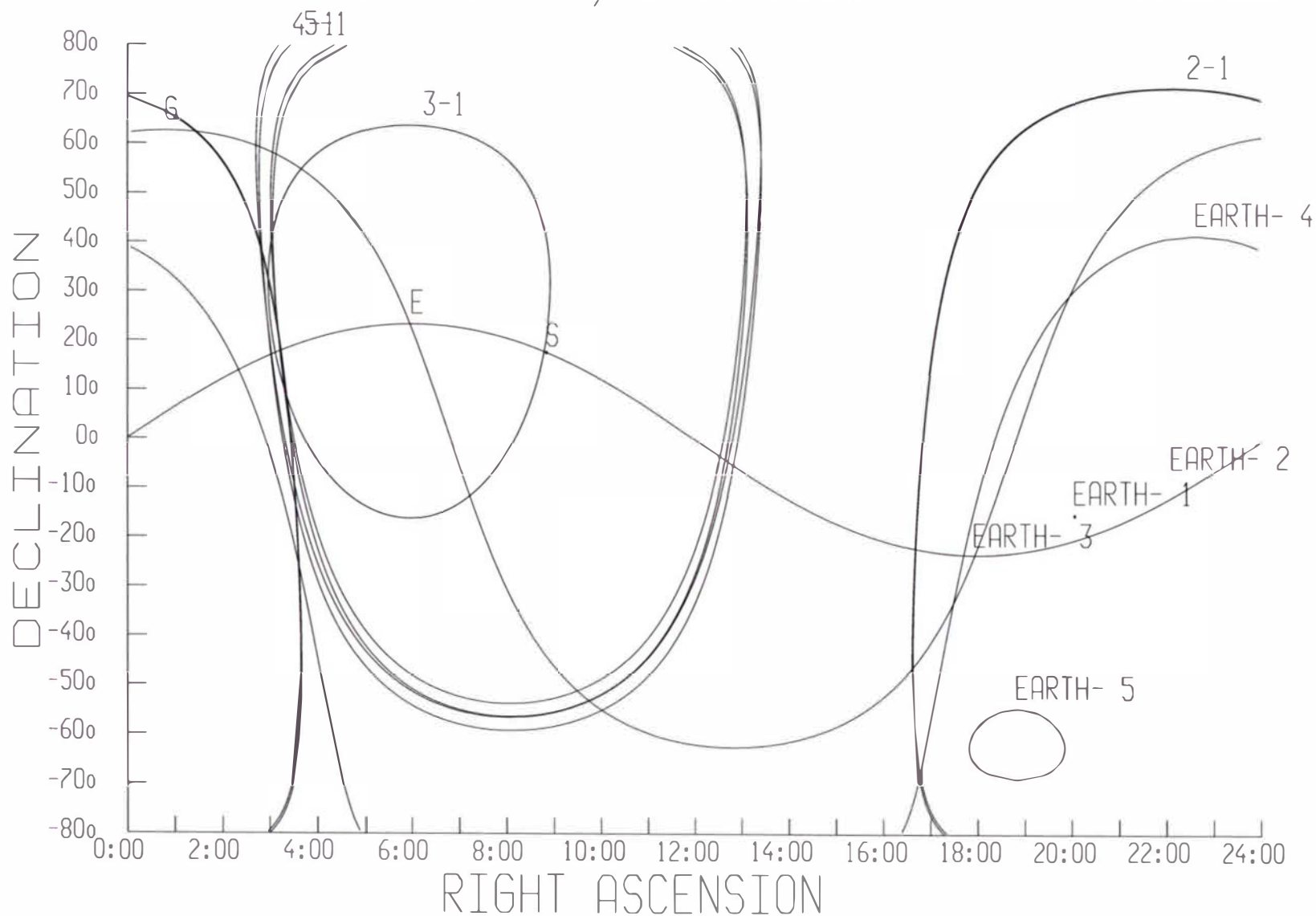
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN
 E=ECLIPTIC
 G=GALACTIC EQUATOR
 1 KONUS2 2 MO 3 MESSENGER

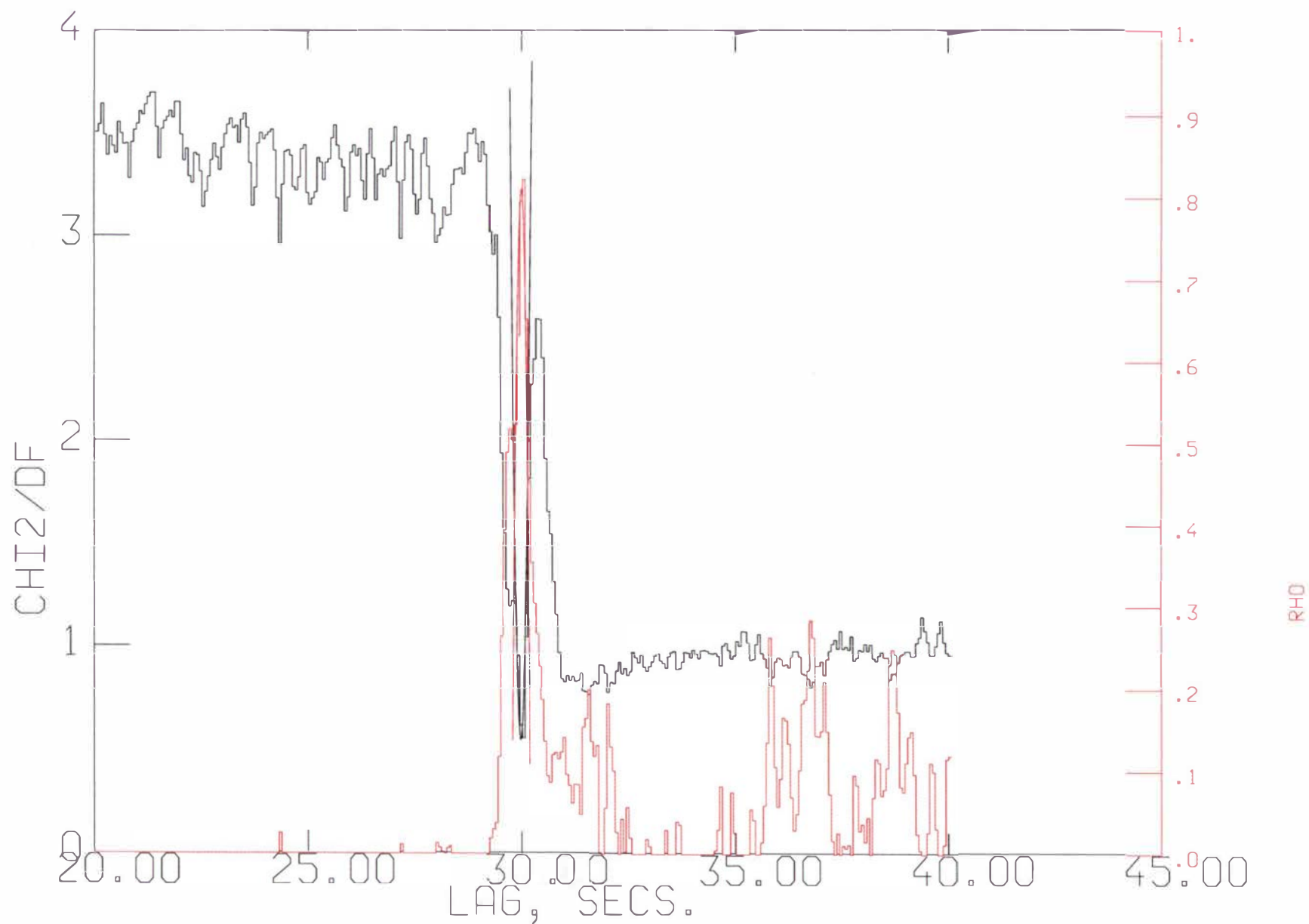


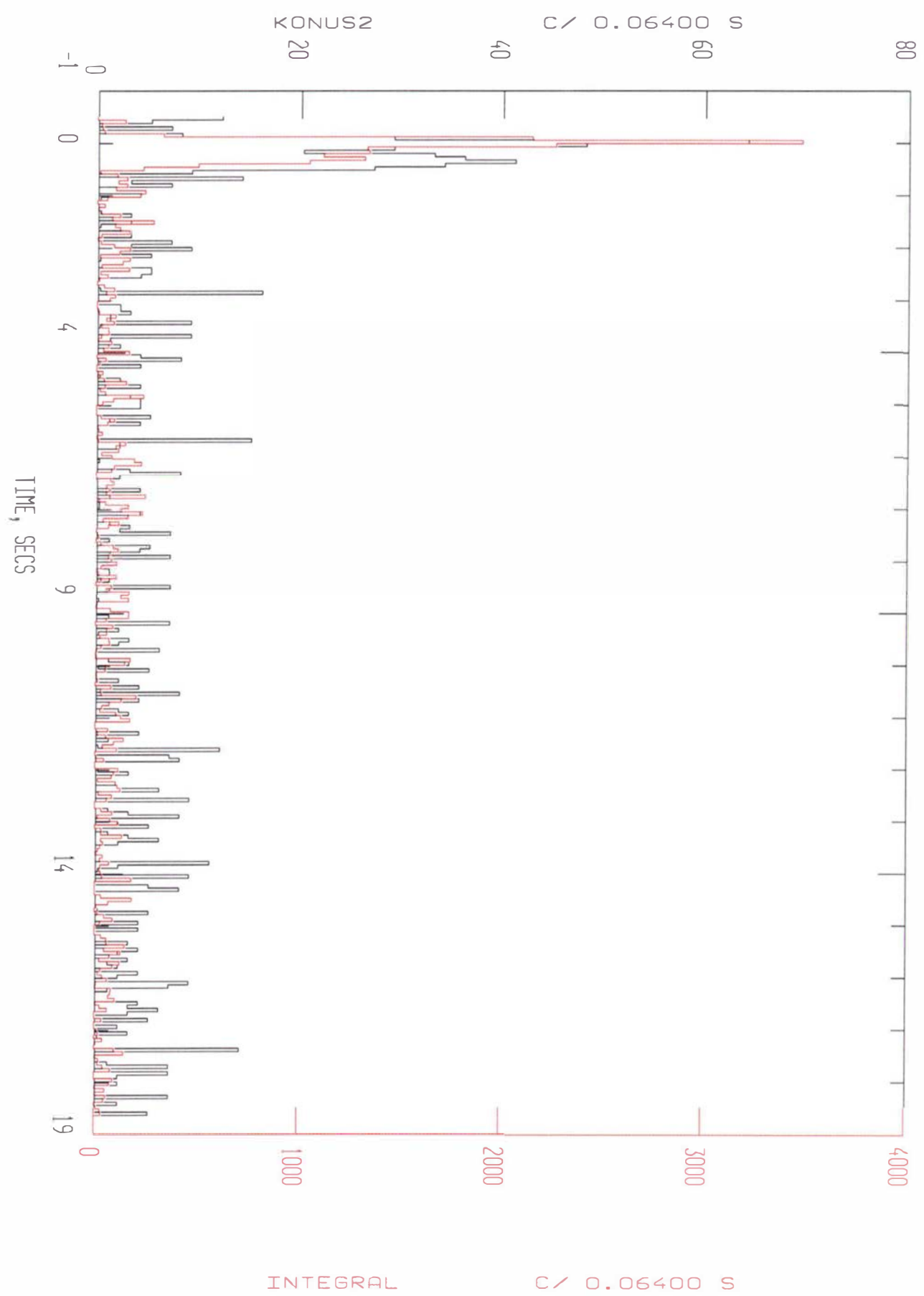
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS2 2 MESSENGER 3 MO 4 SUZAKU 5 INTEGRAL

EVENT OF AUG 2, 2011 15:19

05/08/2011



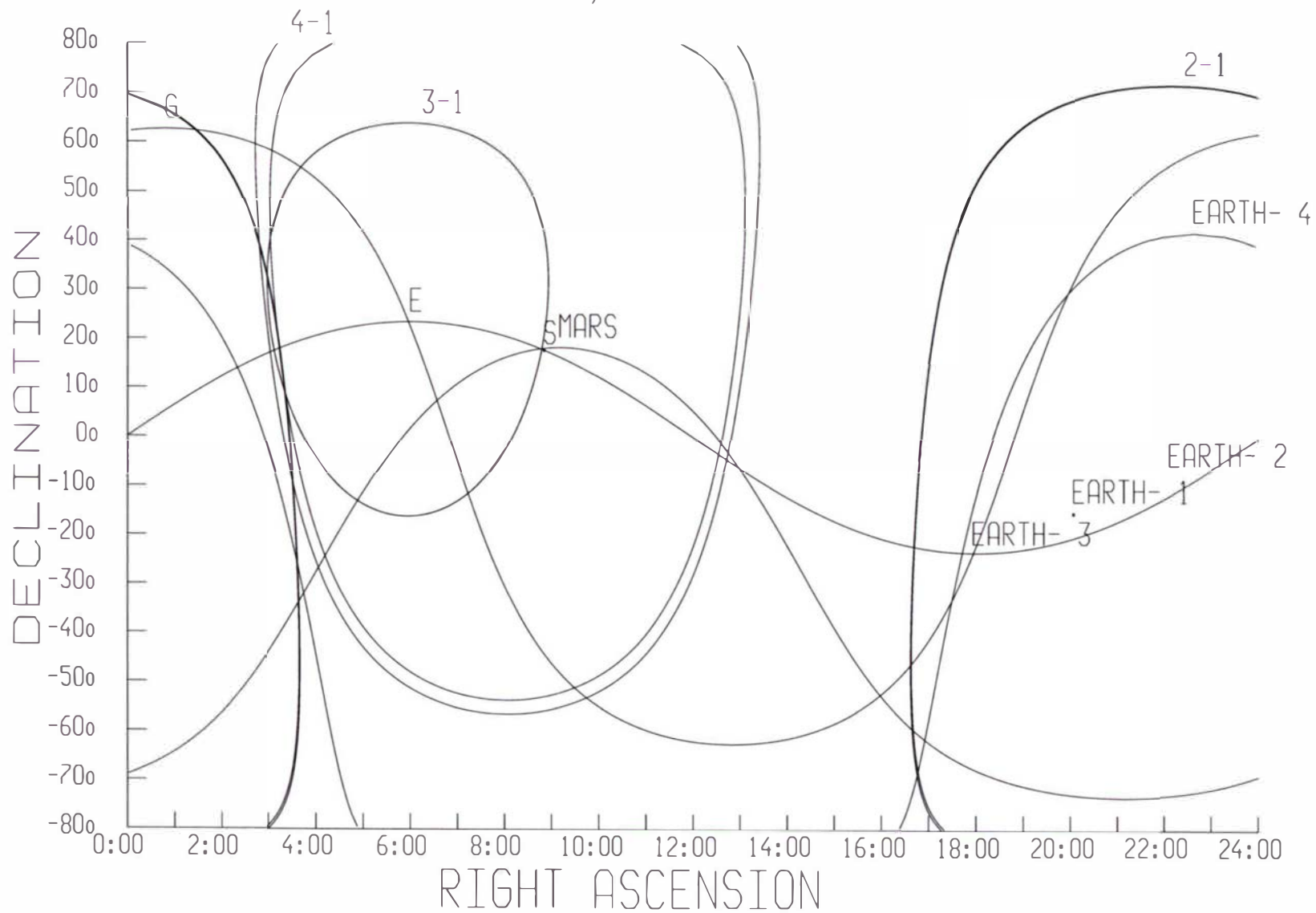


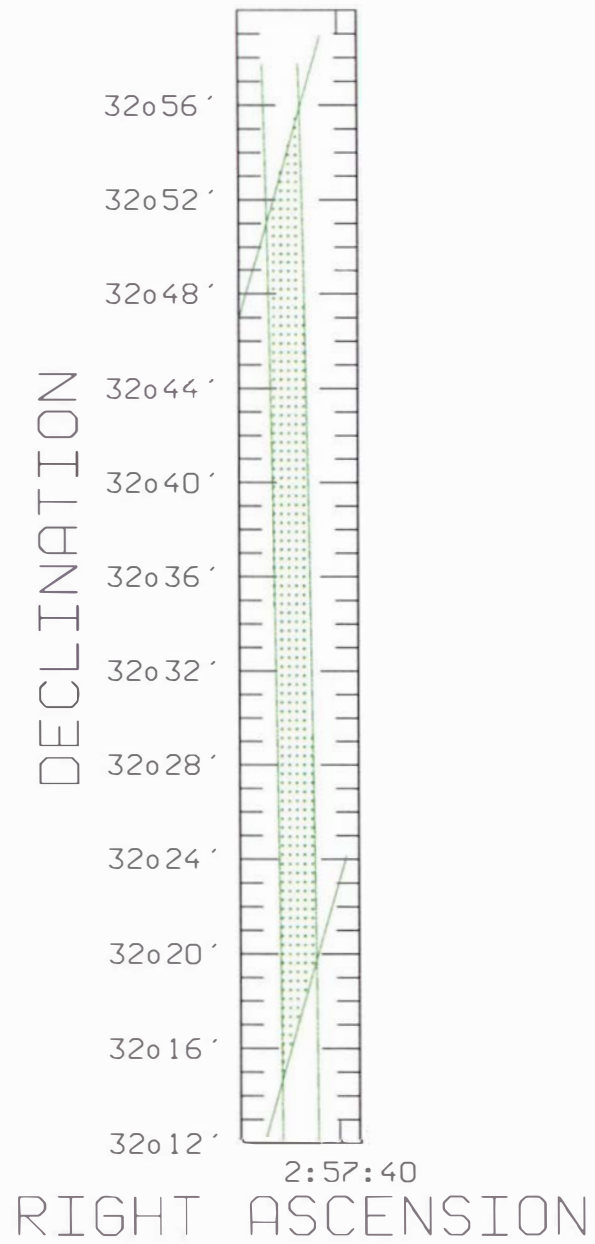


EVENT OF AUG 2, 2011 15:19

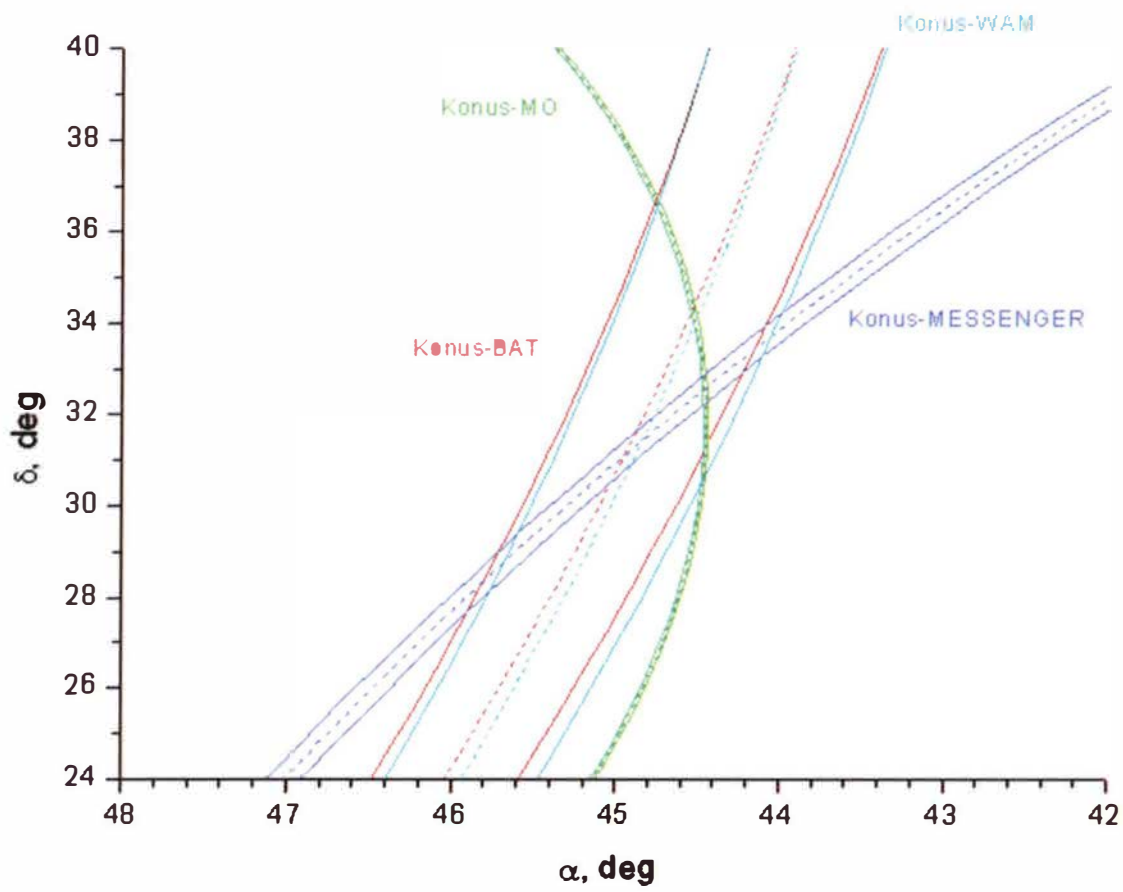
03/08/2011

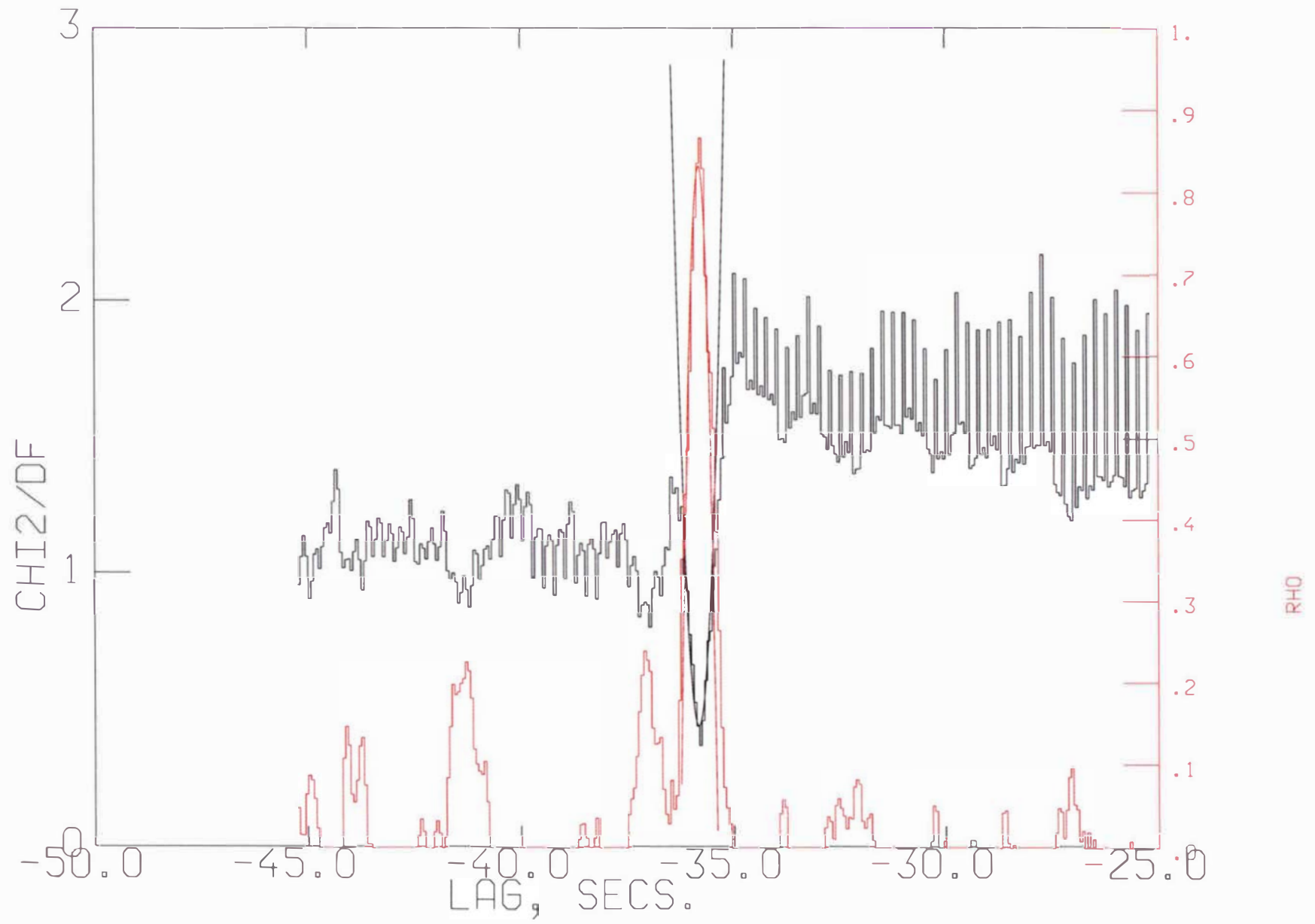
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS2 2 MESSENGER 3 MO 4 SUZAKU

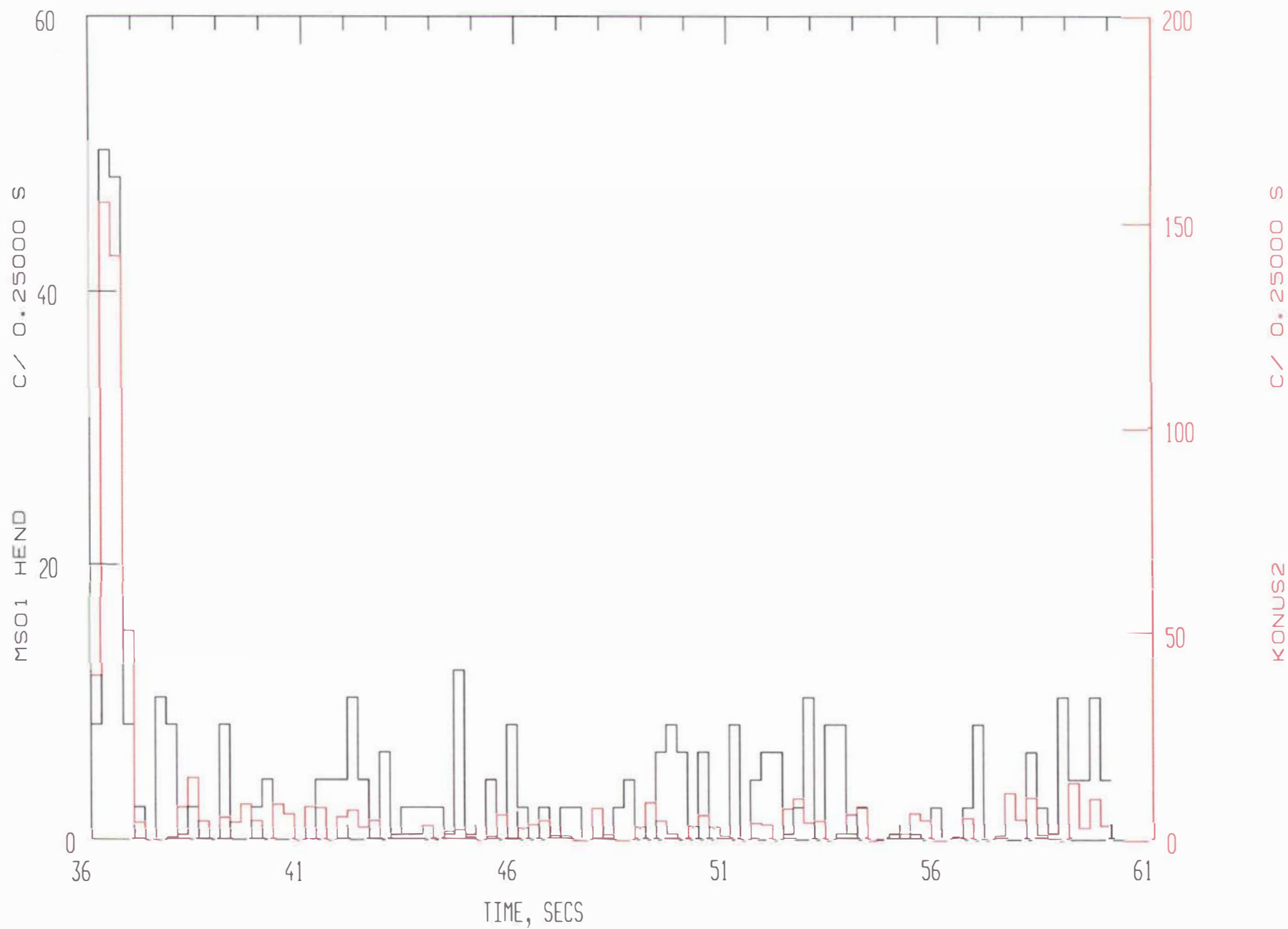


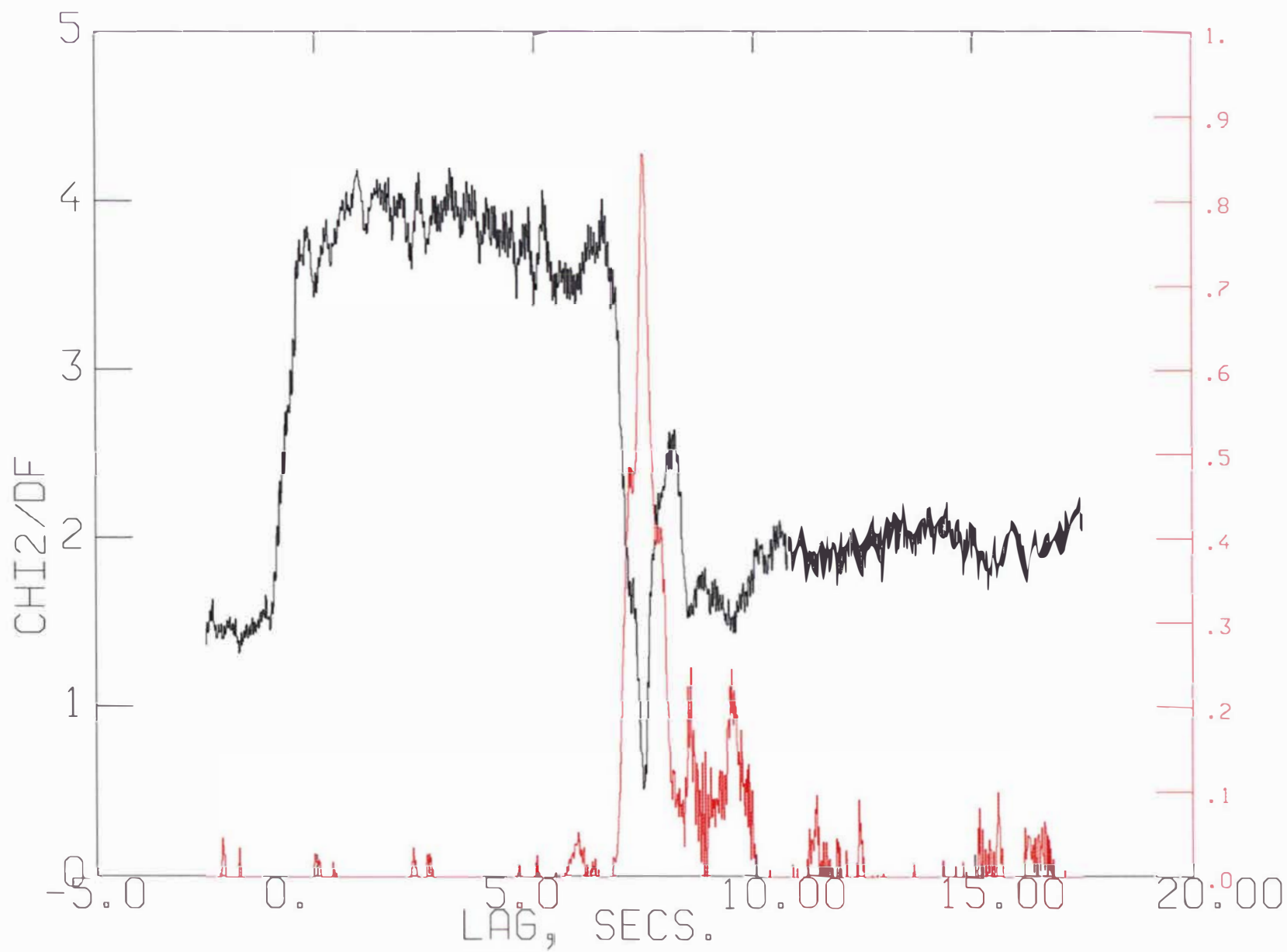


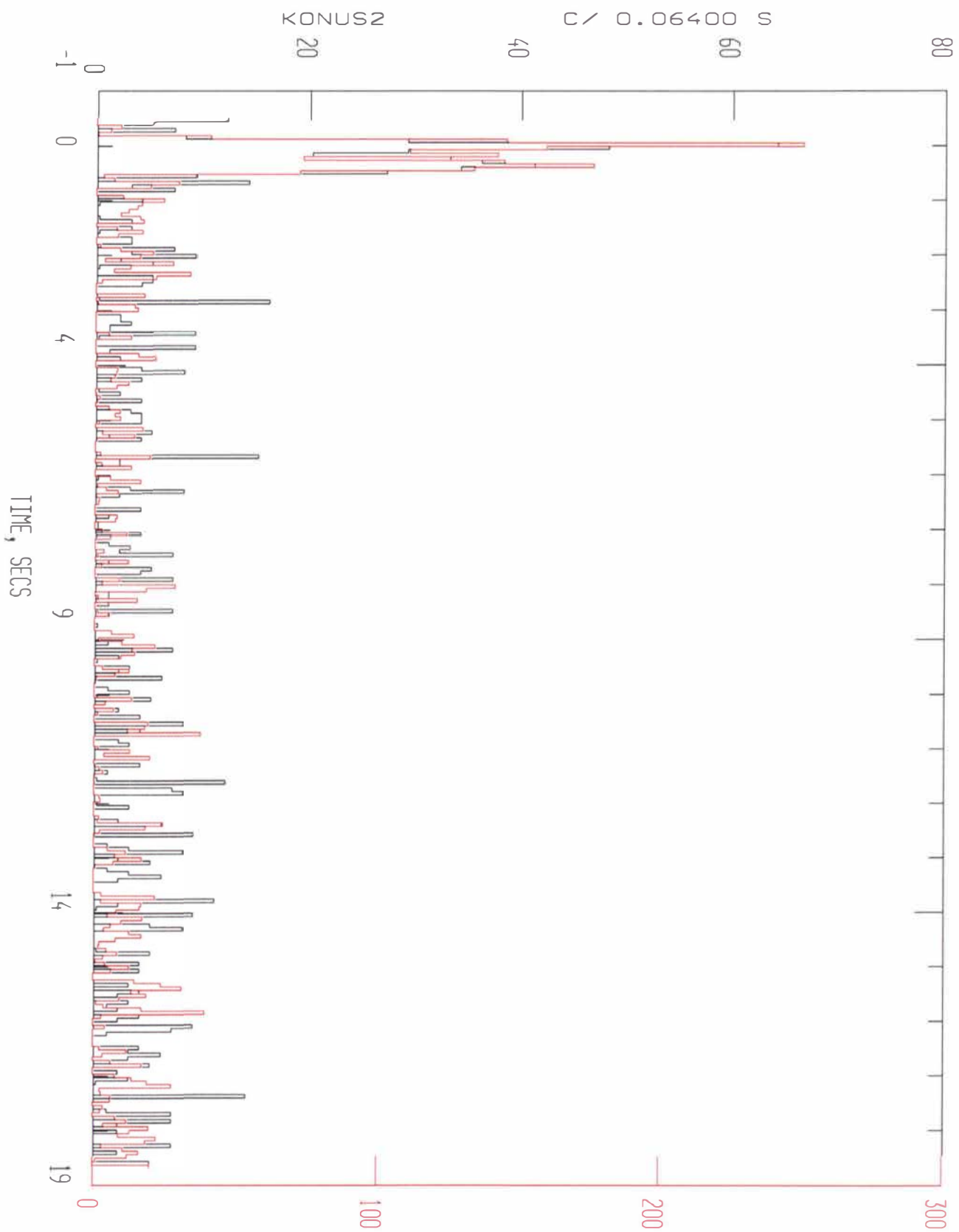
GRB 110802(A)

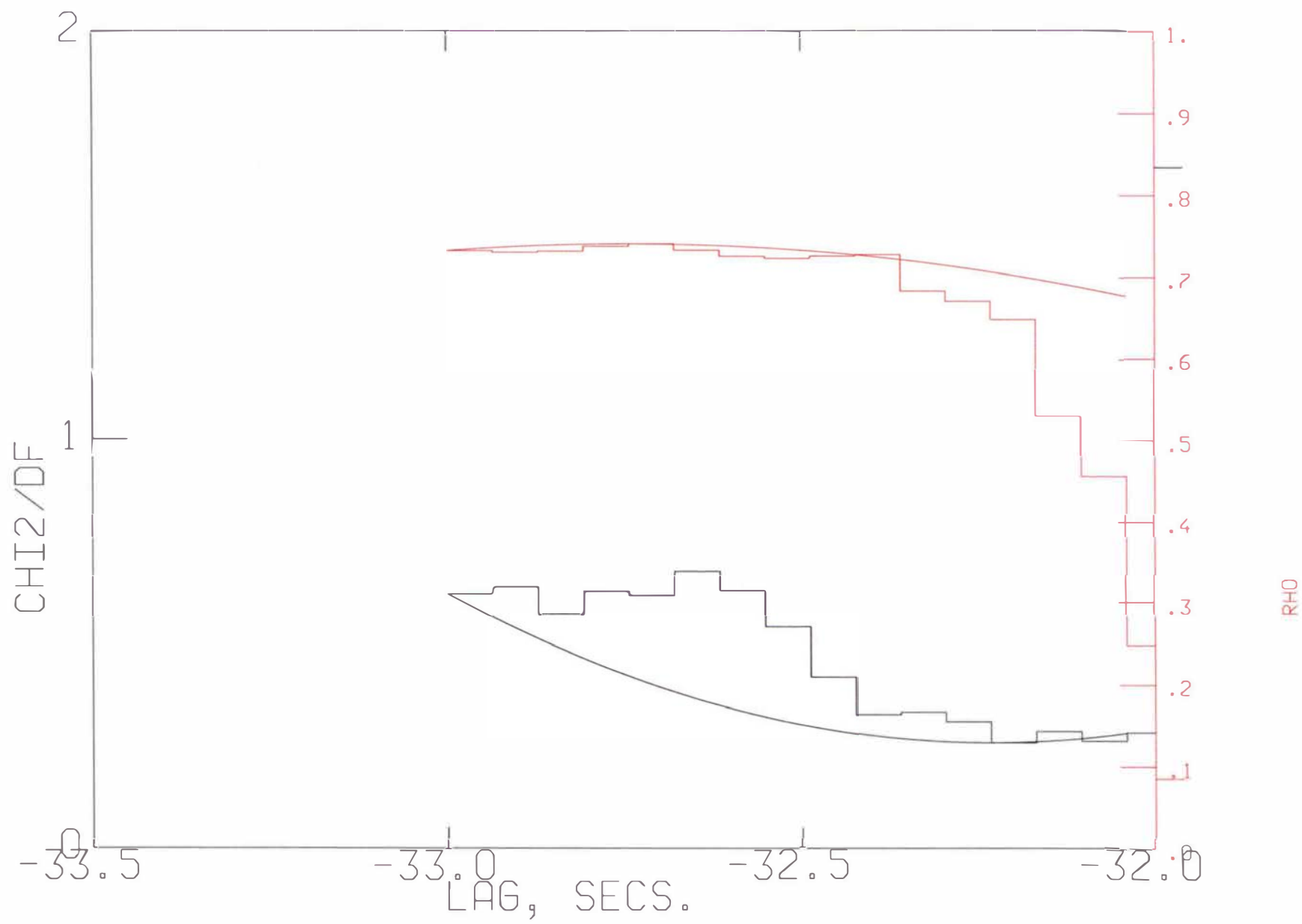


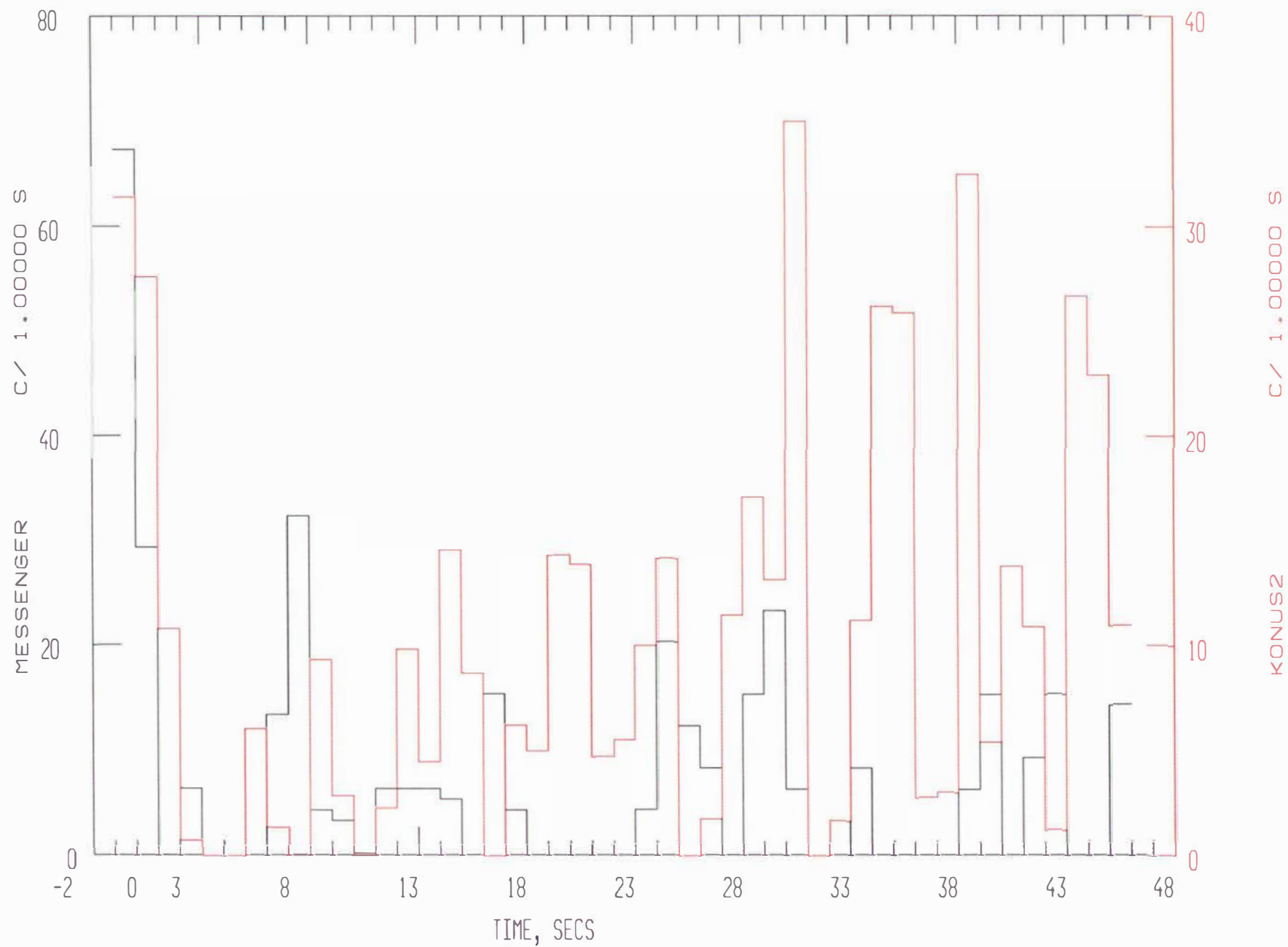












Date: Mar 15 2013 + Sep 20 2016

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?

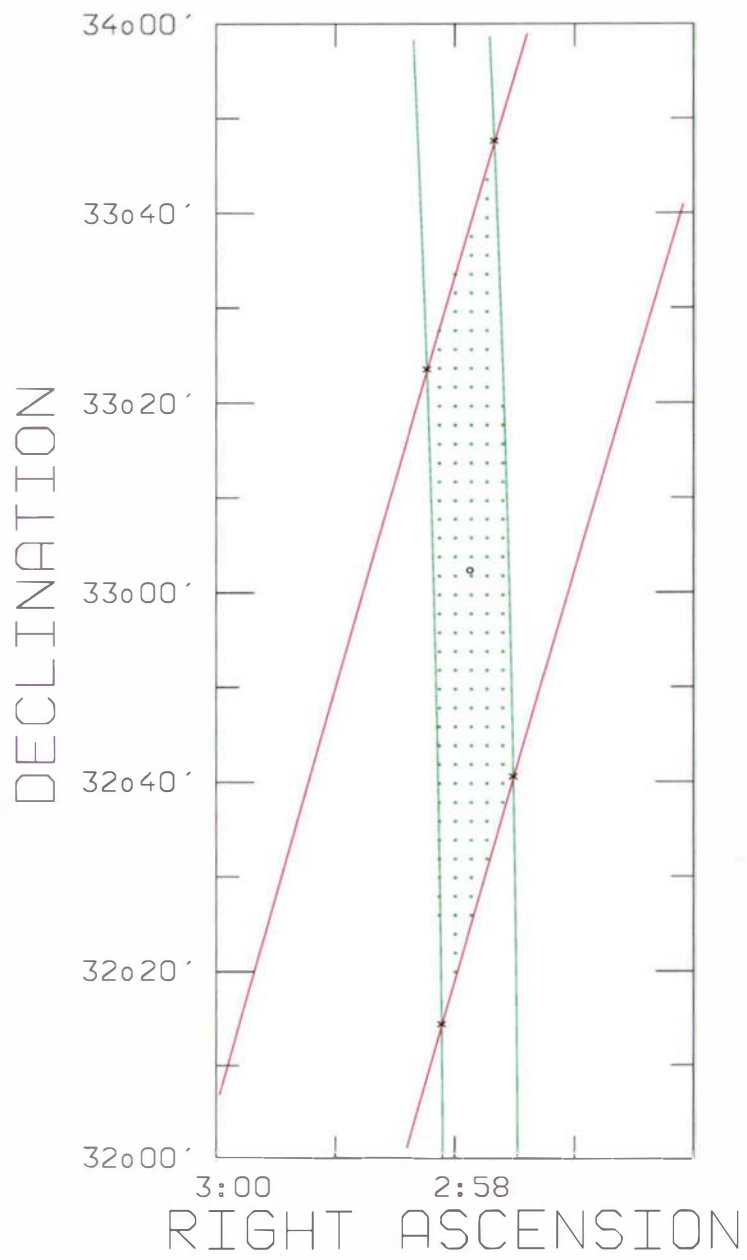
6. For 3 or More Spacecraft events

- ☒ $\Sigma 3\Delta t$'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)?

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



KONUS2

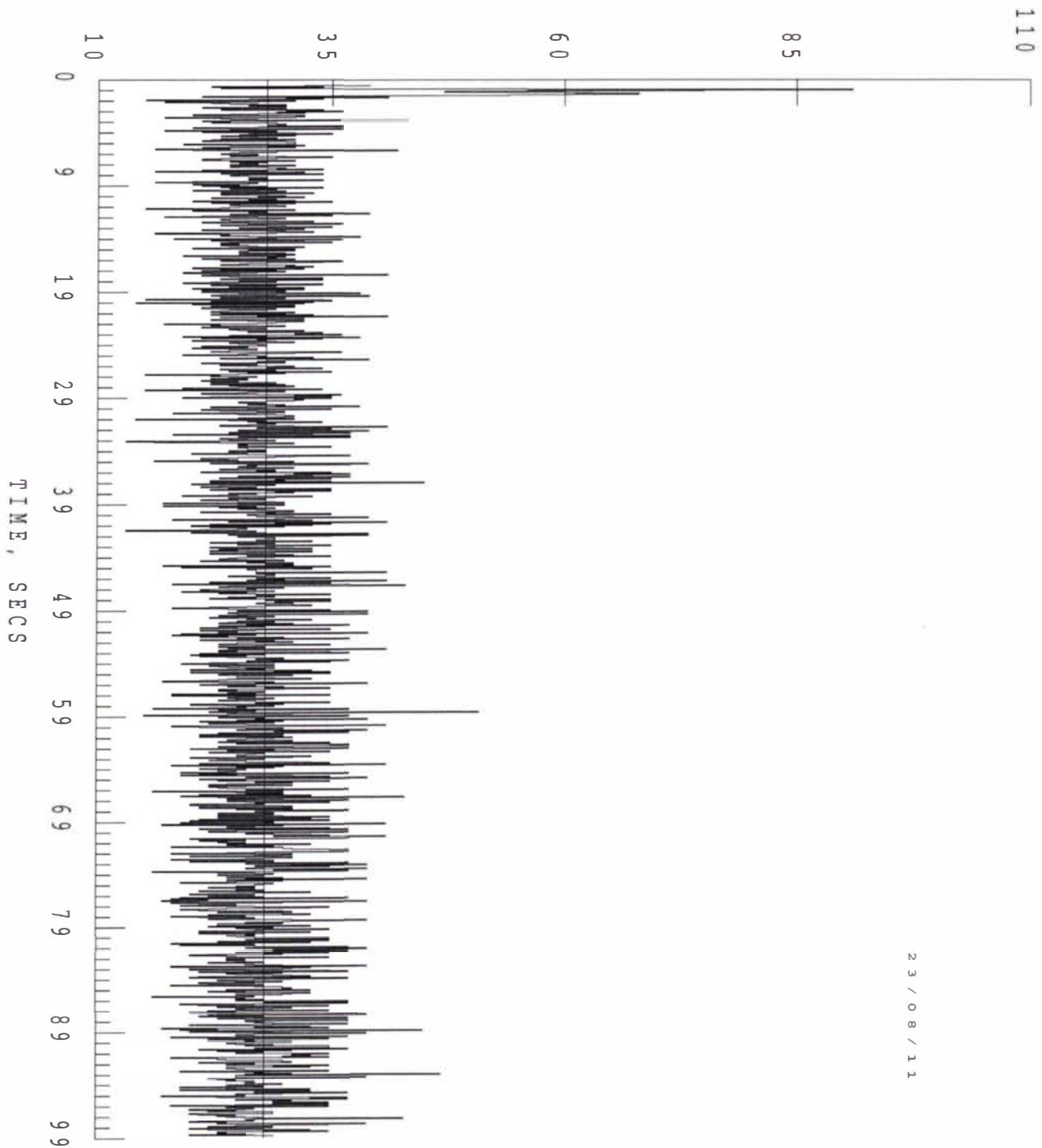
02/08/11

55156.191

B

50 - 200 keV

COUNTS/0.064 S



B

KONUS HRES 20110802 55156

TRIGGER TIME: 02/08/11 DOY 214 Julian 2455777.13838 UT = 15.321 15:19:16 (55156.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

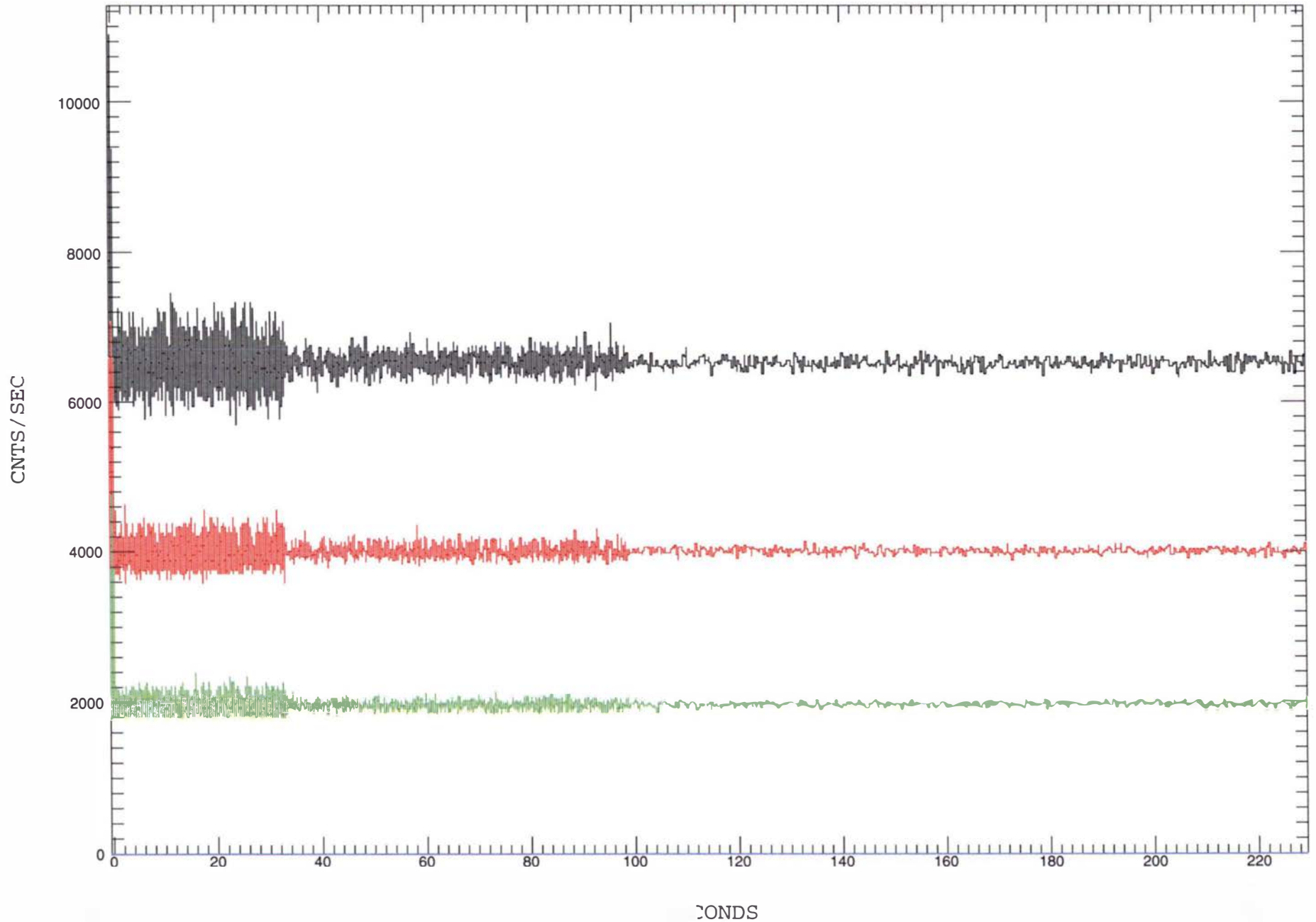
Chan 4 : [> 10 MeV]

Channel 1 + 5400

Channel 2 + 3600

Channel 3 + 1800

Channel 4 + 0





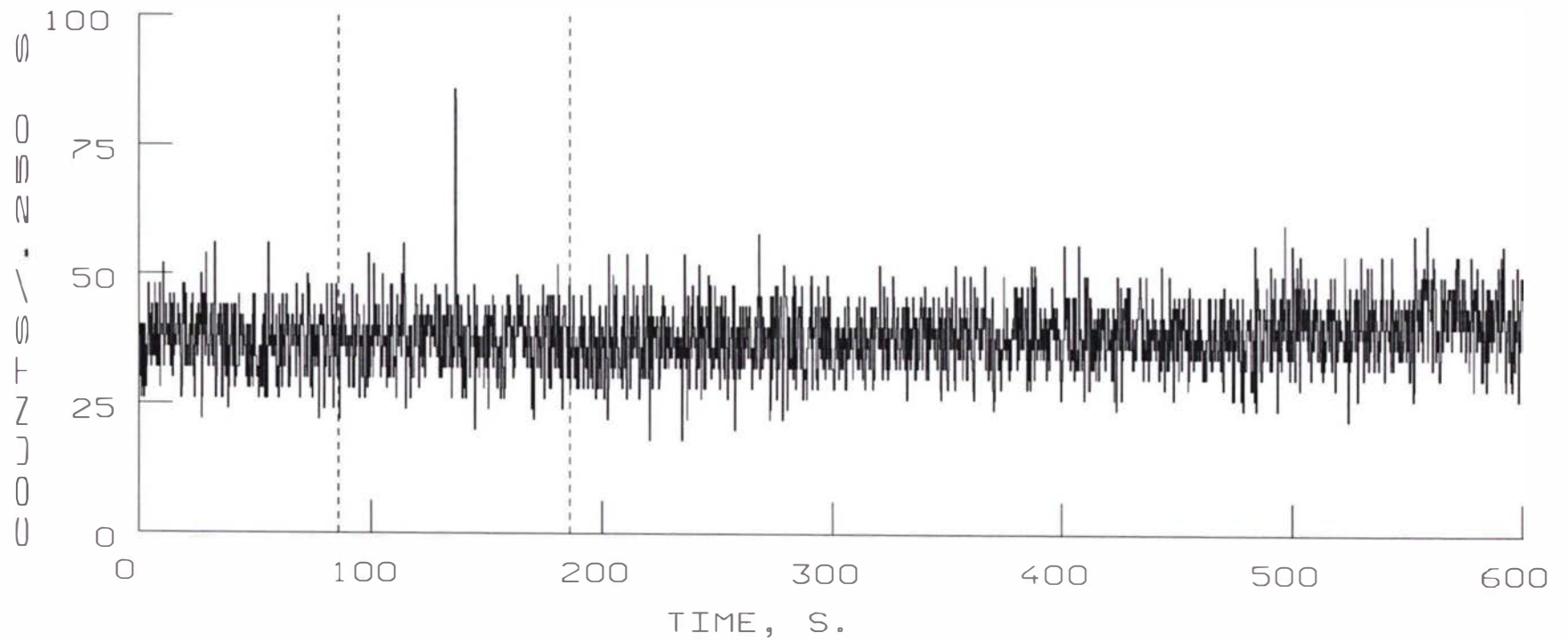
MS01 HEND

03/08/2011

02/08/2011 54211.926 s

50-3000 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From williams@gammaburst.ssl.berkeley.edu Sun Aug 7 23:03:22 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Sun, 7 Aug 2011 23:02:35 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
Cc: khurley@ssl.berkeley.edu
Subject: No RHESSI data for KONUS2 20110802_55156
X-Ucb-Scan-Signature: f9d084c7b5931f9ac02e45e4defd931cc5952e6e
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.811'

X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 7-Aug-2011 23:02:42.00
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

B

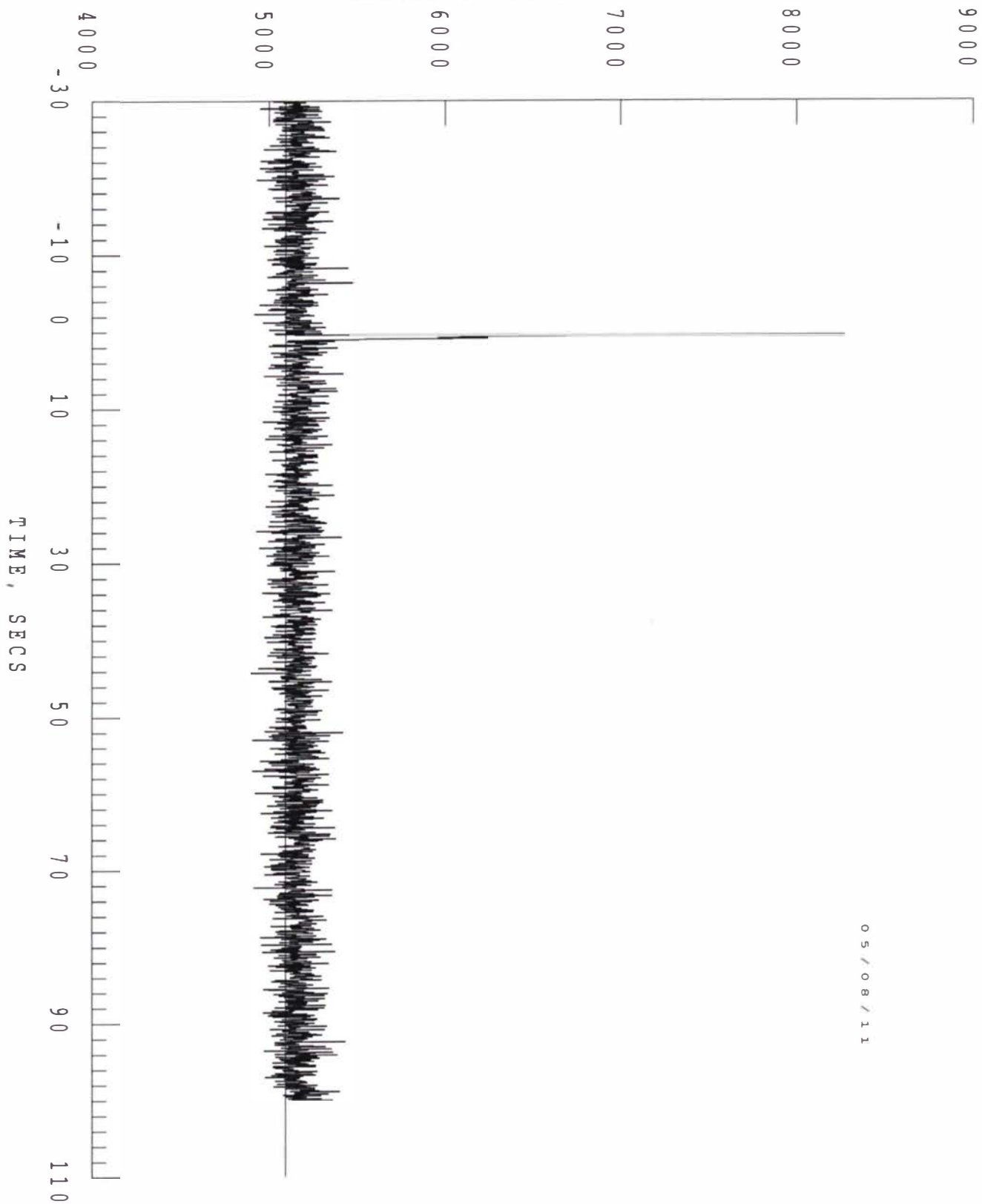
INTEGRAL

02/08/11

55157.020

100-10000 keV

COUNTS/0.050 S



05/08/11

SUZAKU

02/08/11

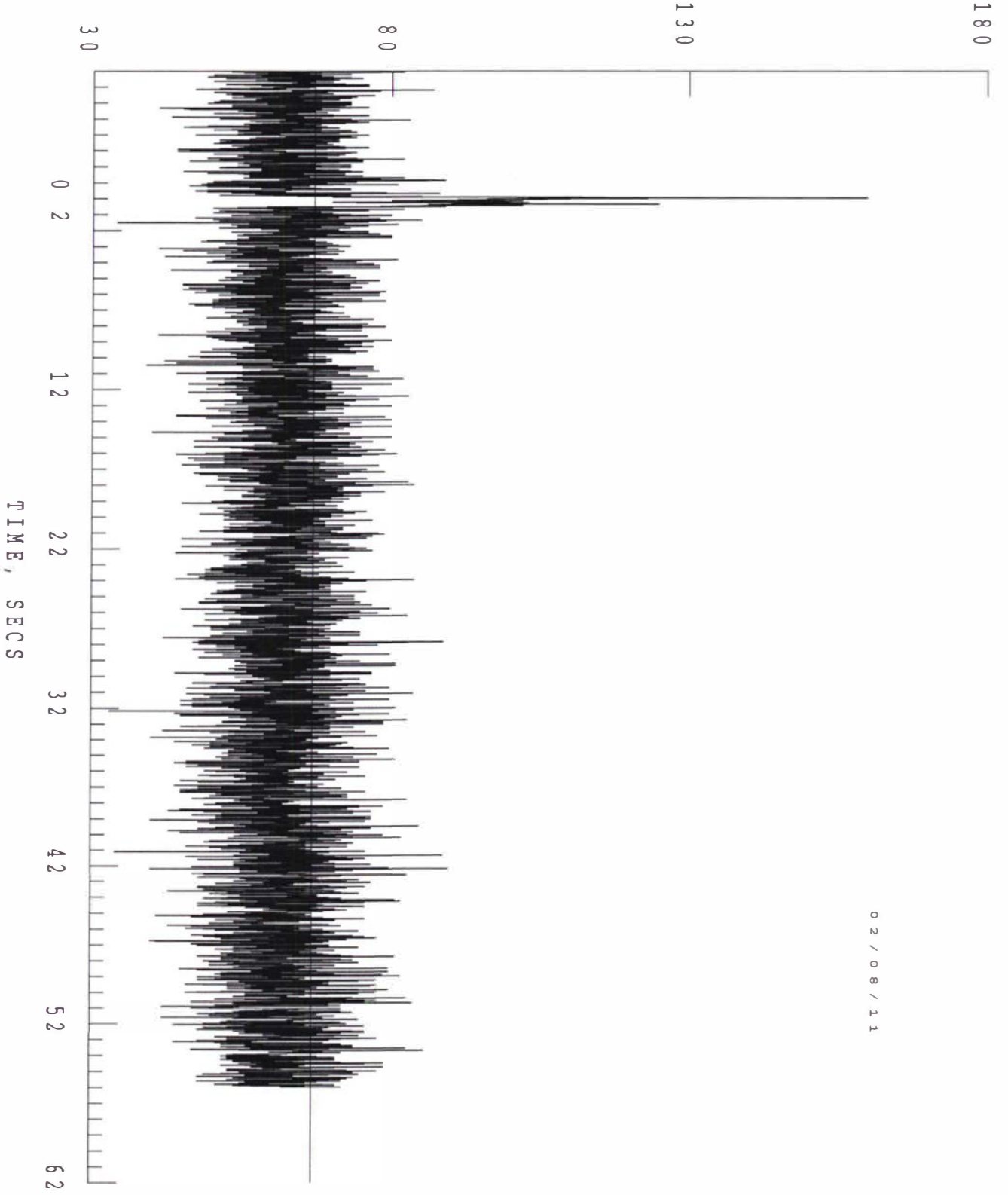
55157.686

15:19:17

B

50 - 240 keV

COUNTS/0.016 S



02/08/11

Subject: [Ipn] Burst during slew yesterday 15:19

From: David Palmer <palmer@lanl.gov>

Date: Wed, 3 Aug 2011 09:55:54 -0600

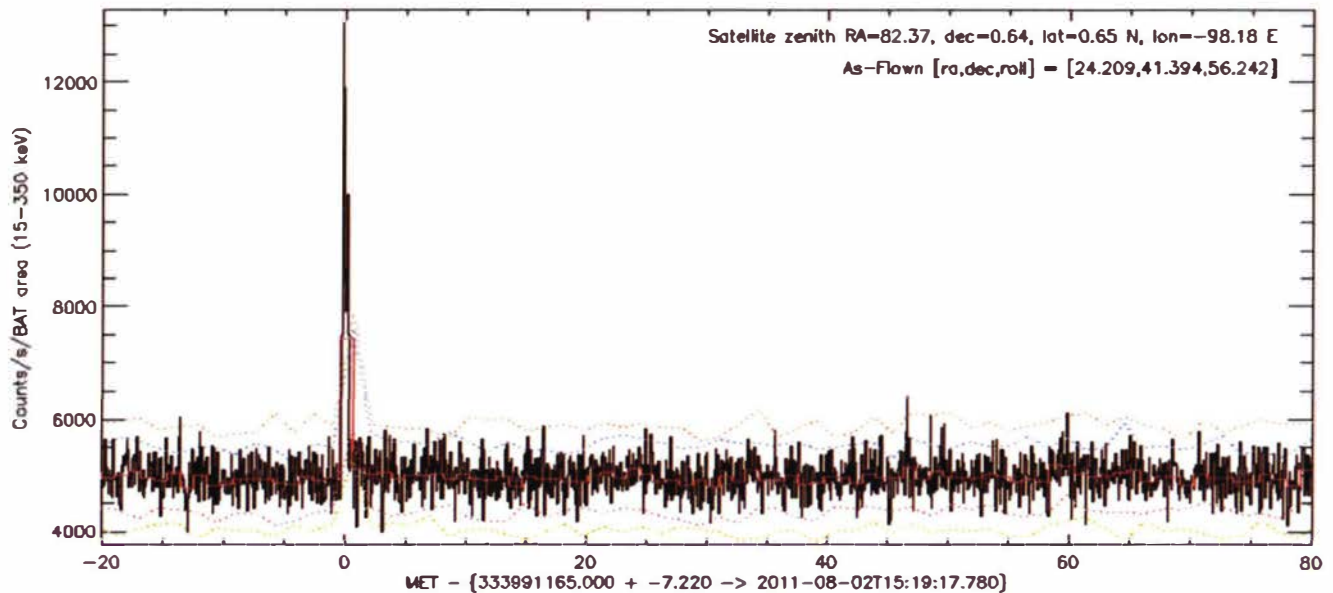
To: Fermi GBM-BA <gbm-ba@mpe.mpg.de>, "R. Marc Kippen" <mkippen@lanl.gov>, BAT TEAM <bat_team@bigbang.gsfc.nasa.gov>, IPN <ipn@ssl.berkeley.edu>

Probable short GRB during slew at 2011-08-02T15:19:17

Event data was generated for this slew
from [8.541, -9.701 69.081] to [24.208, 41.394 56.242]

Time(MET + UTCF -> UT): 333991165.000 + -7.220 -> 2011-08-02T15:19:17.780
Swift Zenith(RA,dec): 82.37, 0.64
Swift Location(lon,lat,alt): -98.18 E, 0.65 N, 594 km
Obs Sequence Number: 00036404007
Obs Target Name: Ups And
Obs Date and Times: 2011-08-02 15:18:54 - 15:23:49
Obs Pointing(ra,dec,roll): 24.209, 41.394, 56.24

110802_1519.png



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

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

110802_1519.png

Content-Type: image/png
Content-Encoding: base64

Part 1.3

Part 1.3

Content-Type: text/plain

Content-Encoding: 7bit

110802_1519_bat64ms_ipn

110802_1519_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.6

Part 1.6	Content-Type: text/plain
	Content-Encoding: 7bit

From ipn-bounces@ssl.berkeley.edu Wed Aug 3 10:18:08 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Wed, 3 Aug 2011 13:18:32 -0400
From: Jay Cummings <Jay.Cummings@nasa.gov>
To: David Palmer <palmer@lanl.gov>
X-Proofpoint-Envelope-Sender: james.r.cummings@nasa.gov
Cc: IPN <ipn@ssl.berkeley.edu>, "R. Marc Kippen" <mkippen@lanl.gov>, BAT@berkeley.edu, Fermi GBM-BA <gbm-ba@mpe.mpg.de>, TEAM <bat_team@bigbang.gsfc.nasa.gov>
Subject: Re: [Ipn] Burst during slew yesterday 15:19
X-Ucb-Scan-Signature: 7a124c8bcbacebdec7de110c7b13ceb9f4c1497e
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_MESSAGE 0.001, RCVD_IN_DNSWL_MED -2.3, RP_MATCHES_RCVD -0.716'
X-Ucb-Notice: This message has been processed by a spam tagging system.

The energy response, all above 50 keV, indicates that it was not in the field of Jay

On 8/3/11 11:55 AM, David Palmer wrote:
> Probable short GRB during slew at 2011-08-02T15:19:17
>
> Event data was generated for this slew
> from [8.541, -9.701 69.081] to [24.208, 41.394 56.242]
>
> Time(MET + UTC -> UT): 333991165.000 + -7.220 -> 2011-08-02T15:19:17.78
> Swift Zenith(RA,dec): 82.37, 0.64
> Swift Location(lon,lat,alt): -98.18 E, 0.65 N, 594 km
> Obs Sequence Number: 00036404007
> Obs Target Name: Ups And
> Obs Date and Times: 2011-08-02 15:18:54 - 15:23:49
> Obs Pointing(ra,dec,roll): 24.209, 41.394, 56.24
>

B

01/07/11

MESSENGER

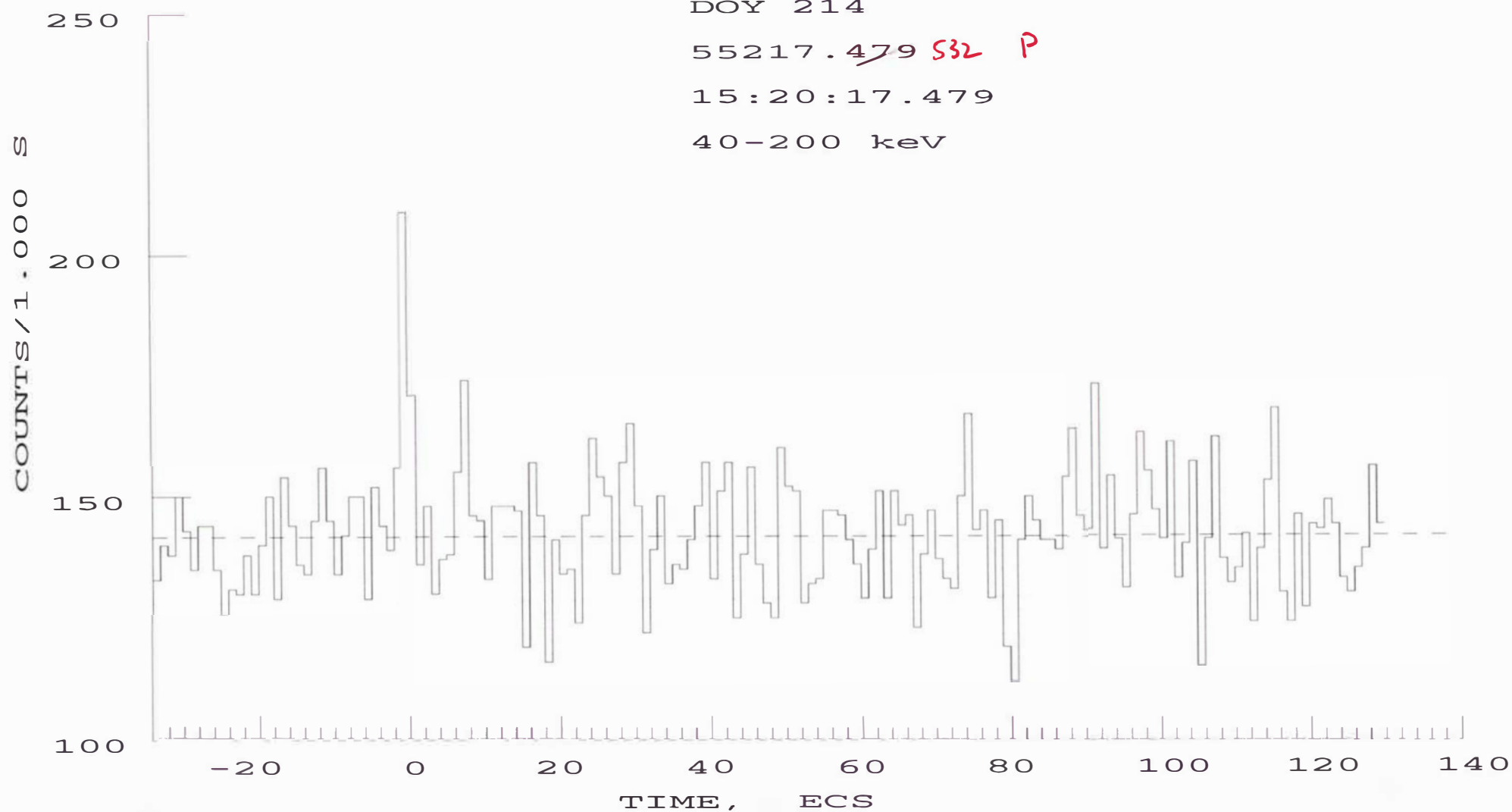
02/08/11

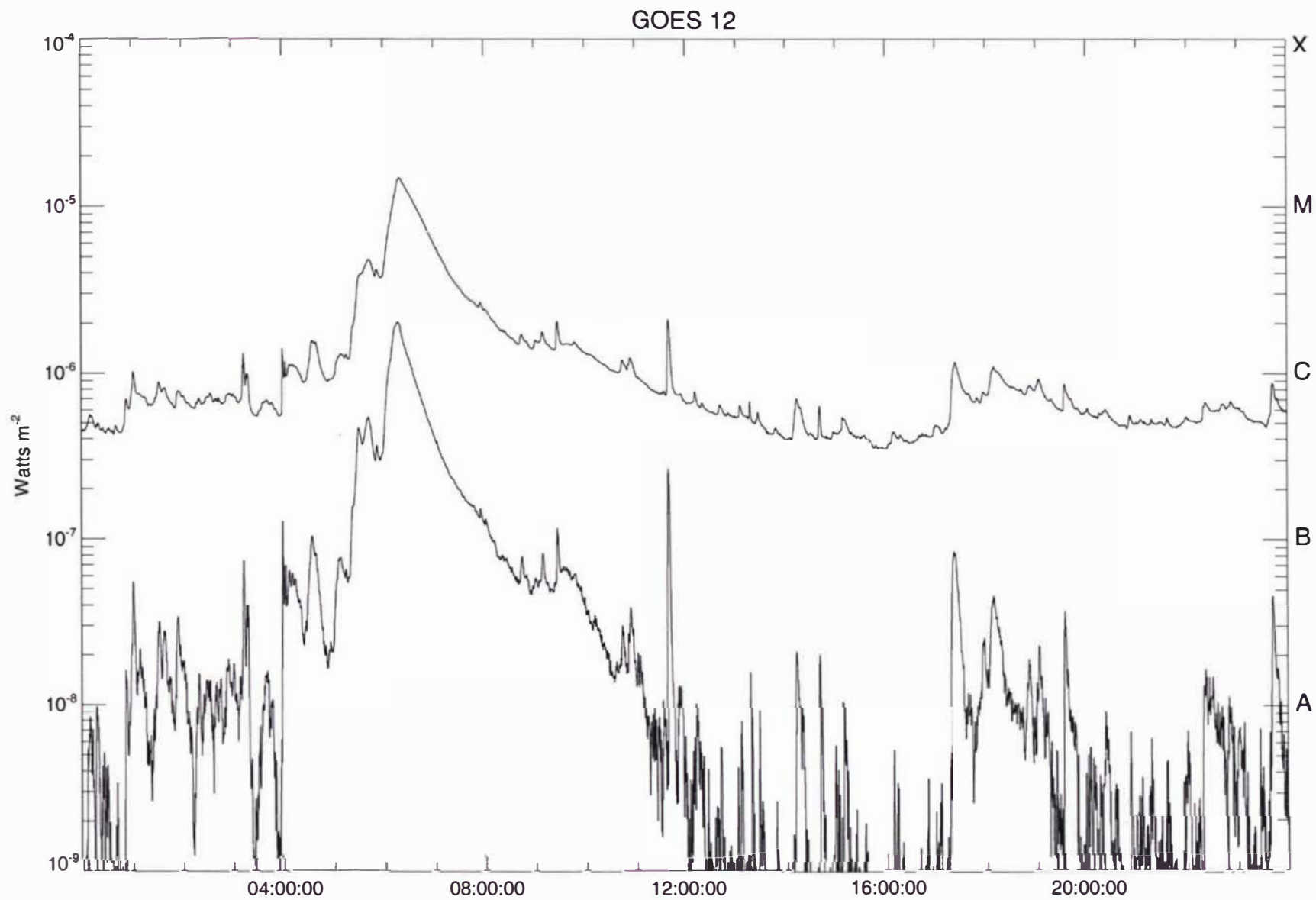
DOY 214

55217.479 532 P

15:20:17.479

40-200 keV





Data Start: 11/08/02, 0000:09

Plot created: 11/08/05, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

03/08/11

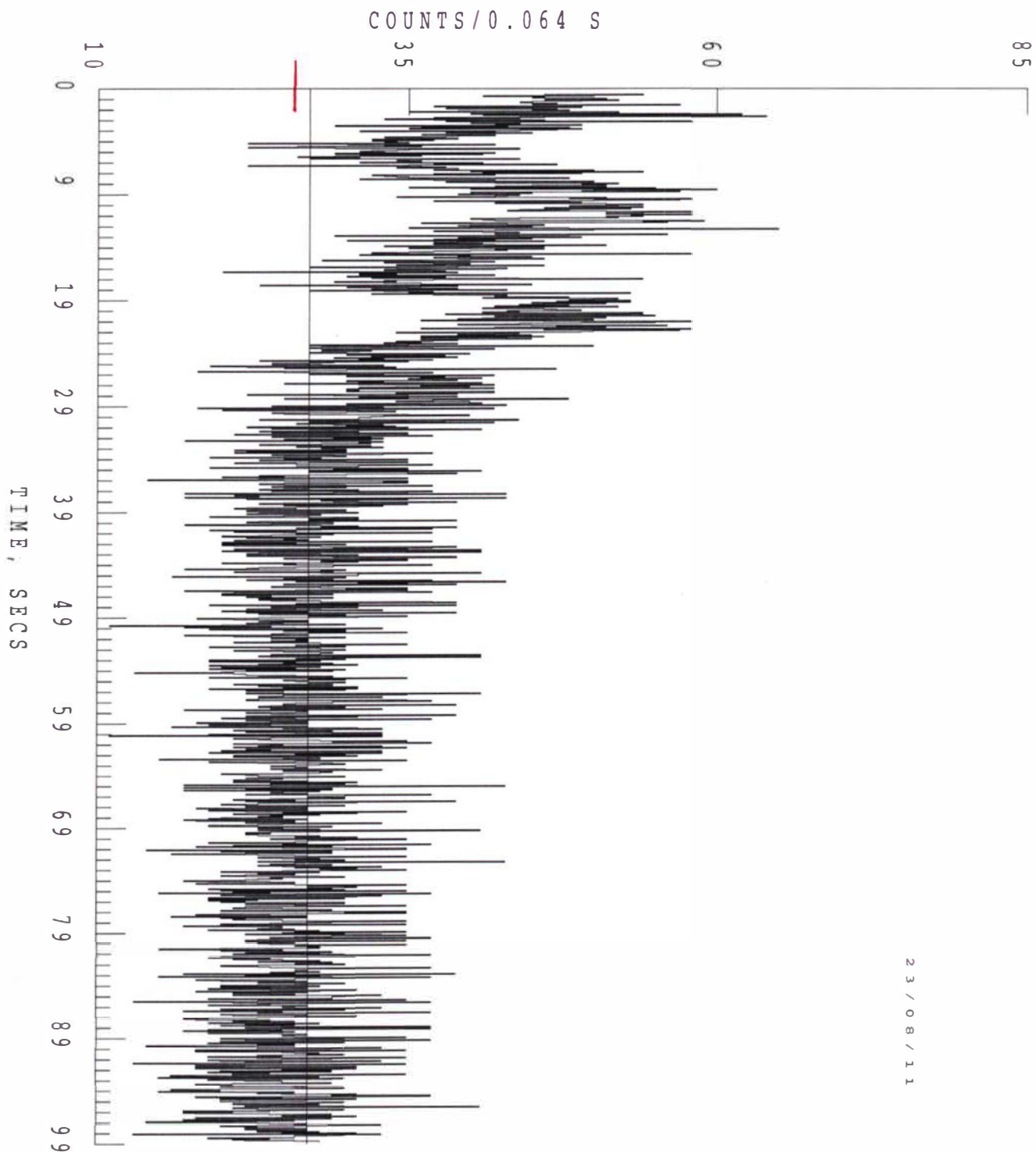
16261.758

Solar

A

50 - 200 keV

04:31:01



KONUS HRES 20110803 16261

TRIGGER TIME: 03/08/11 DOY 215 Julian 2455777.68821 UT = 04.517 04:31:01 (16261.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

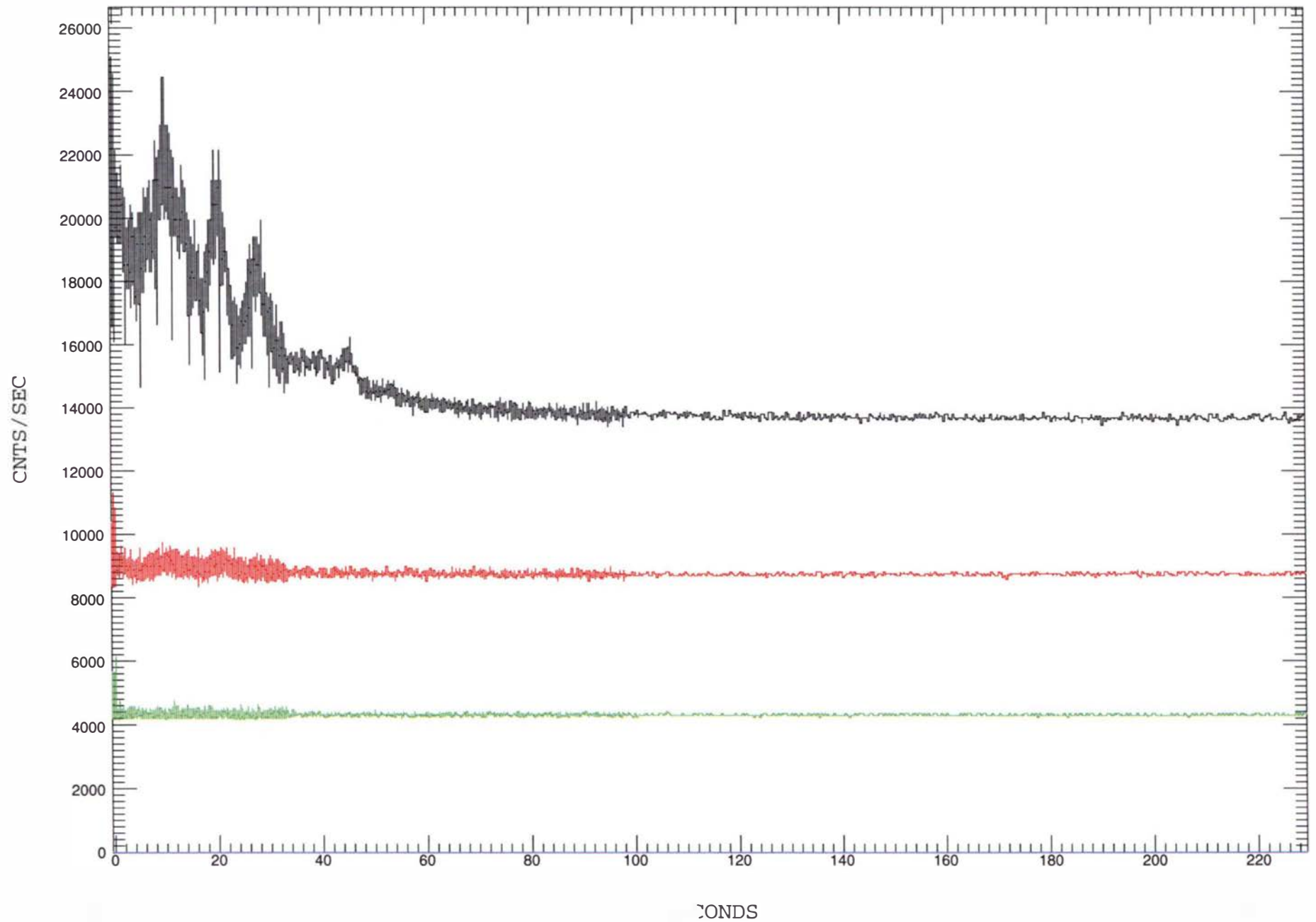
Chan 4 : [> 10 MeV]

Channel 1 + 12600

Channel 2 + 8400

Channel 3 + 4200

Channel 4 + 0



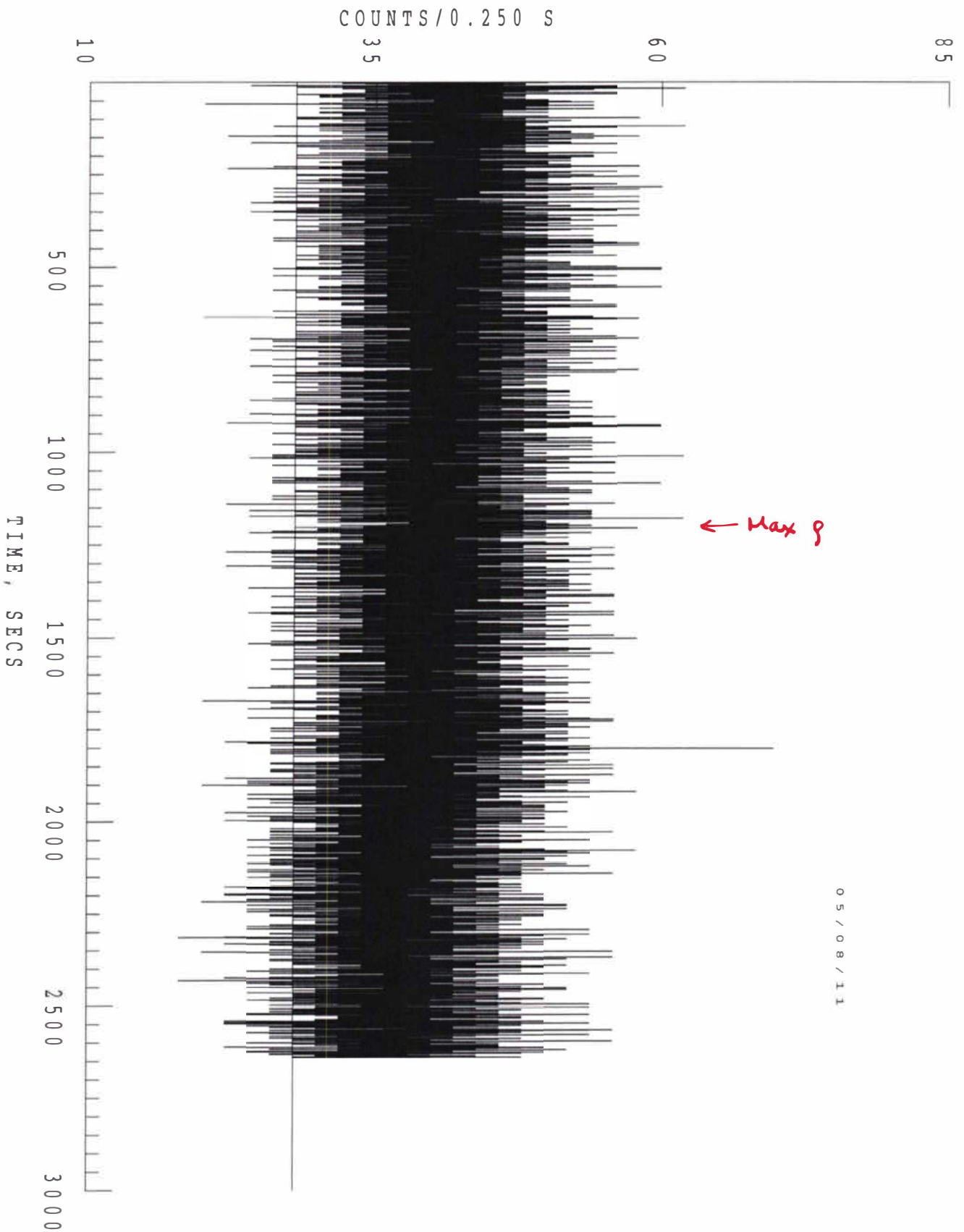
MS01

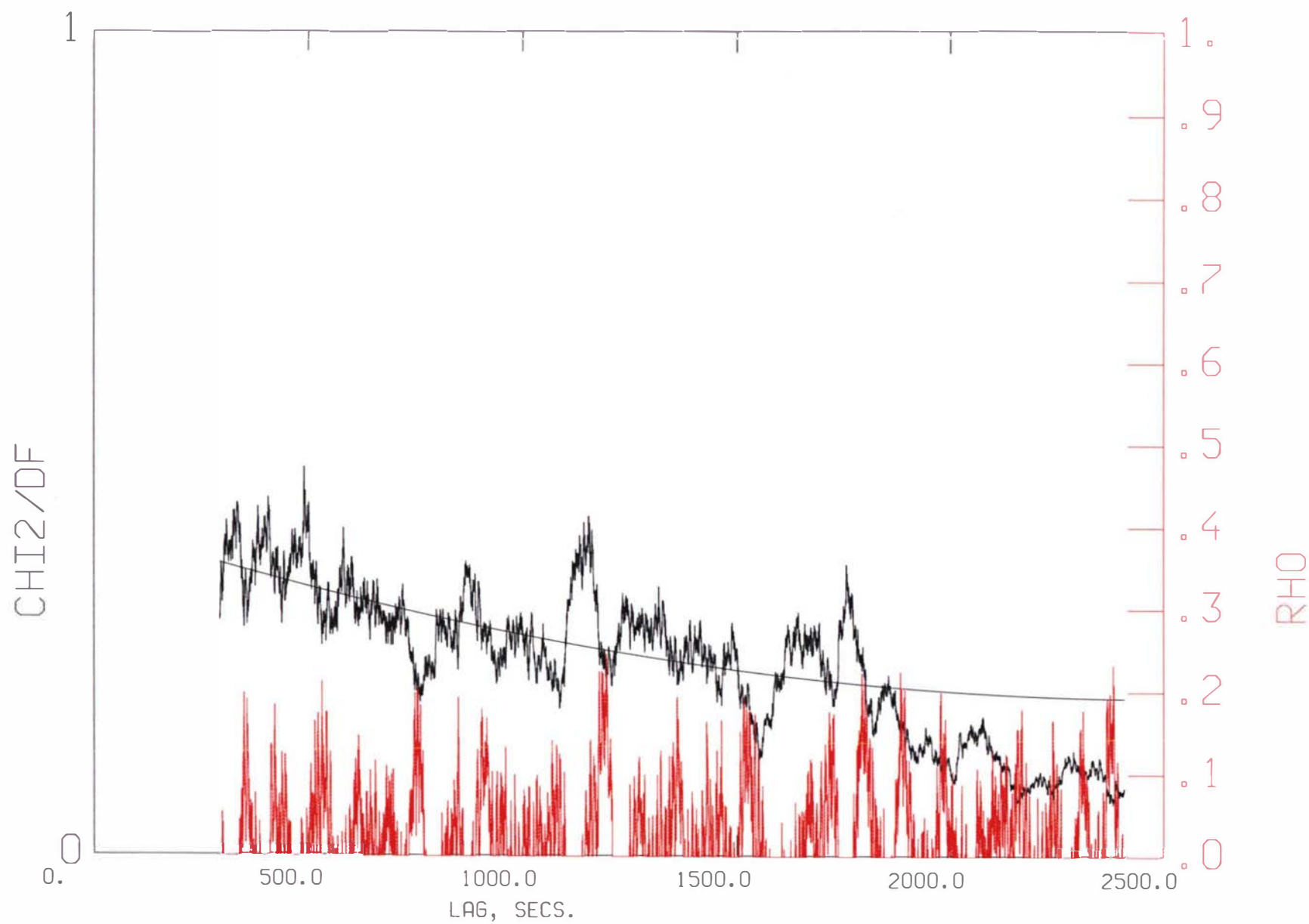
03/08/11

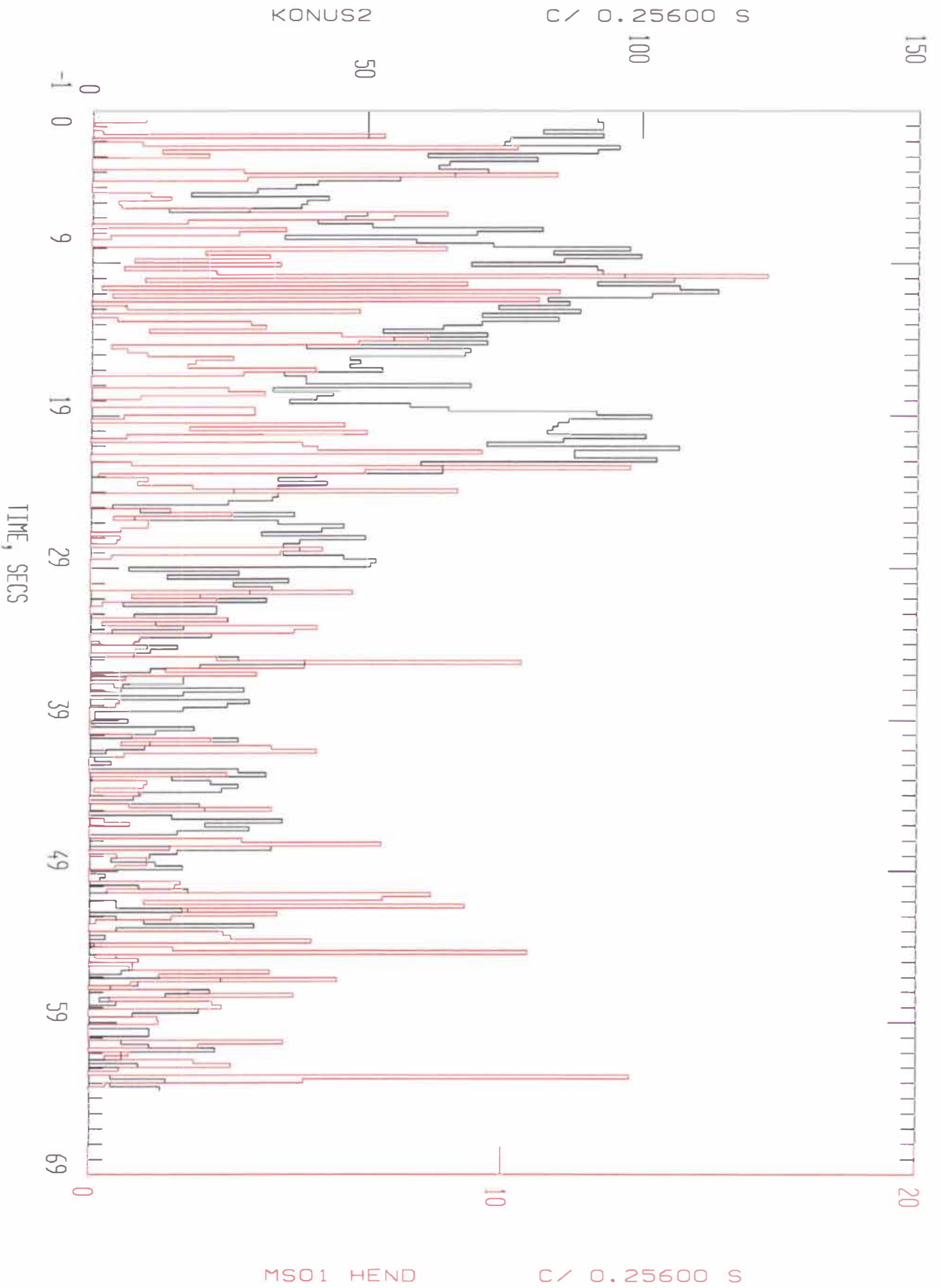
14911.129

A

50 - 3000 keV







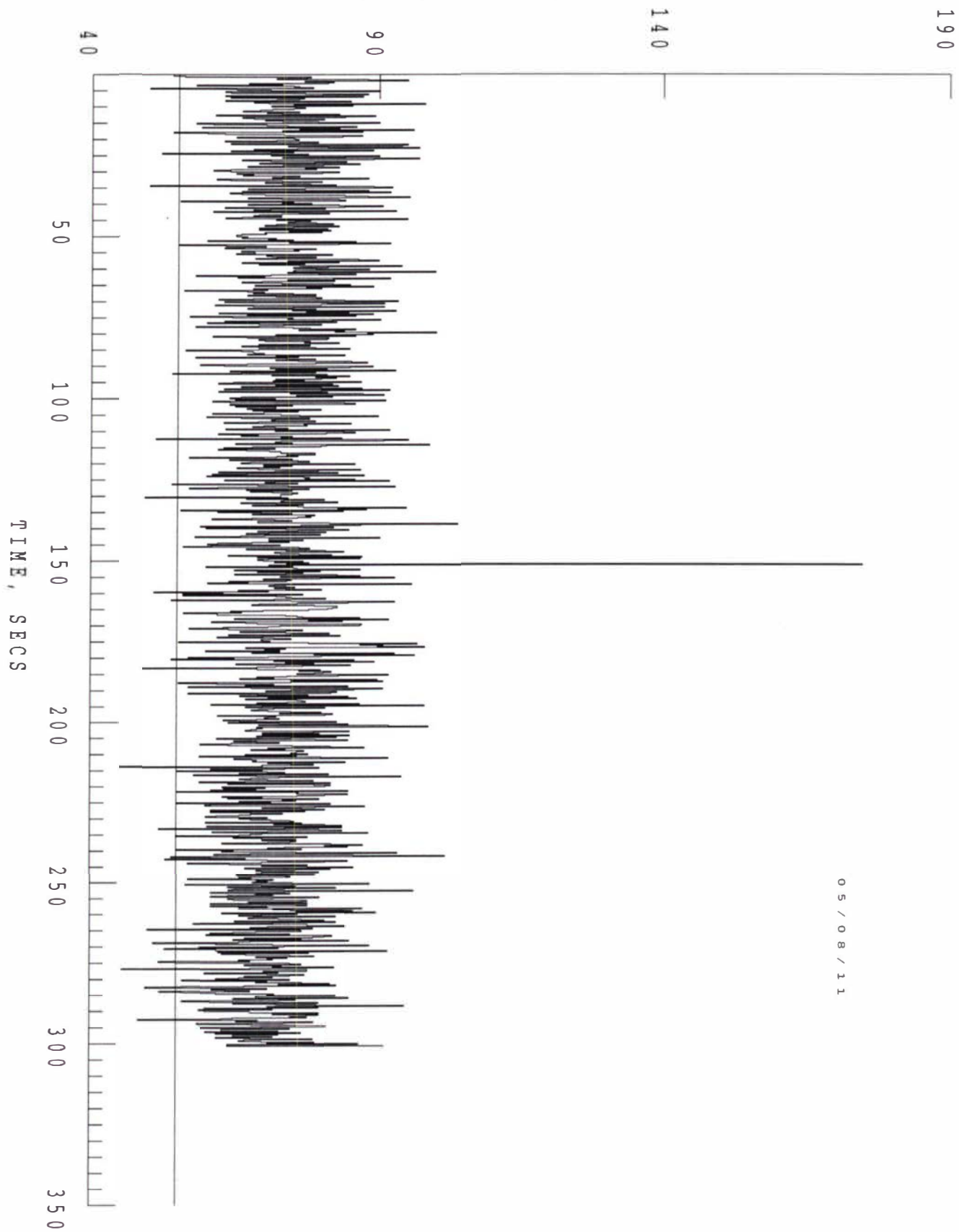
HESSI

03/08/11 16110.000 (KONUS2_20110803_16261)

A

25- 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 110803_0431

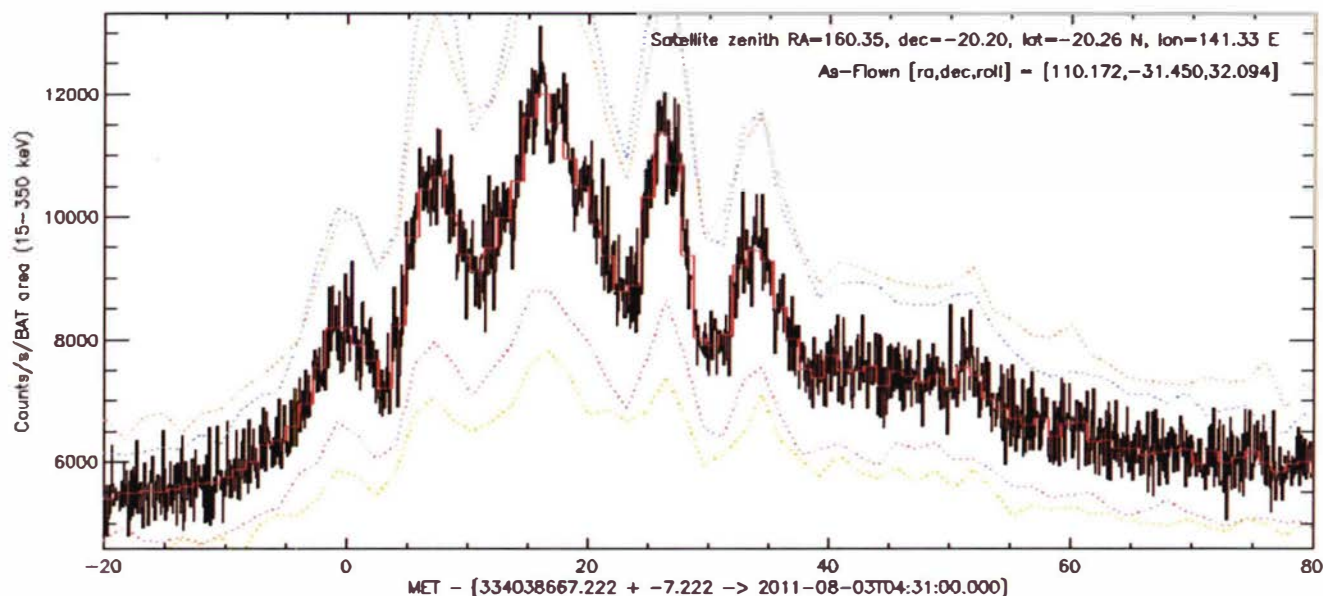
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 3 Aug 2011 11:34:29 -0600 (MDT)

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

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

/tmp/110803_0431.png



```
% /usr/local/bin/swinfo -o 334038667.222
Time(MET + UTC -> UT):      334038667.222 + -7.222 -> 2011-08-03T04:31:00.000
Swift Zenith(RA,dec):       160.35, -20.20
Swift Location(lon,lat,alt): 141.33 E, -20.26 N, 586 km
Obs Sequence Number:        00032036003
Obs Target Name:             RX J0720.4-3125
Obs Date and Times:          2011-08-03 04:12:54 - 04:33:49
Obs Pointing(ra,dec,roll):   110.172, -31.450, 32.09
```

--
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>

/tmp/110803_0431.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110803_0431_bat64ms_ipn

/tmp/110803_0431_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

A

28/09/11

MESSENGER

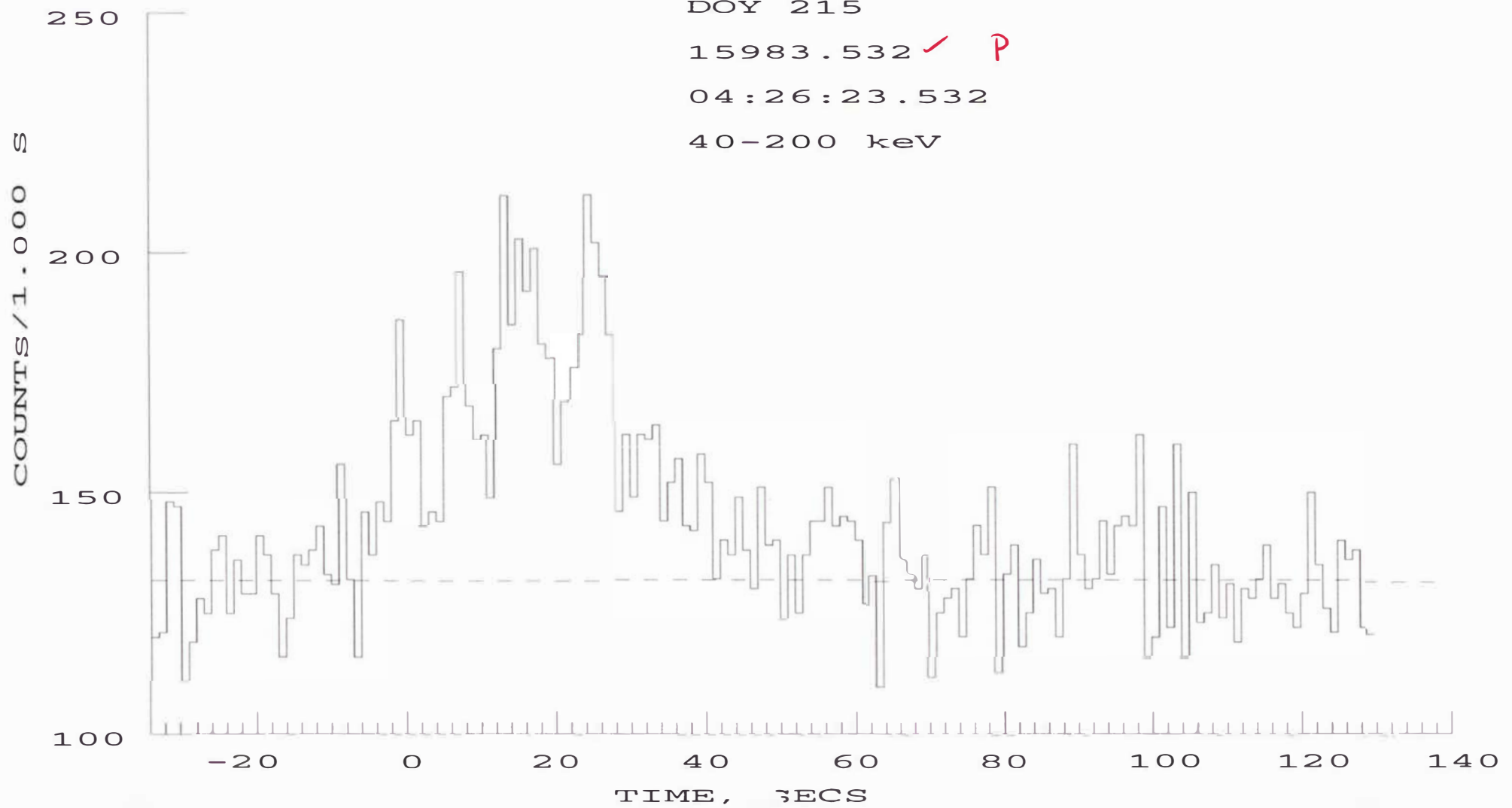
03/08/11

DOY 215

15983.532 ✓ P

04:26:23.532

40-200 keV



28/09/11

MESSENGER

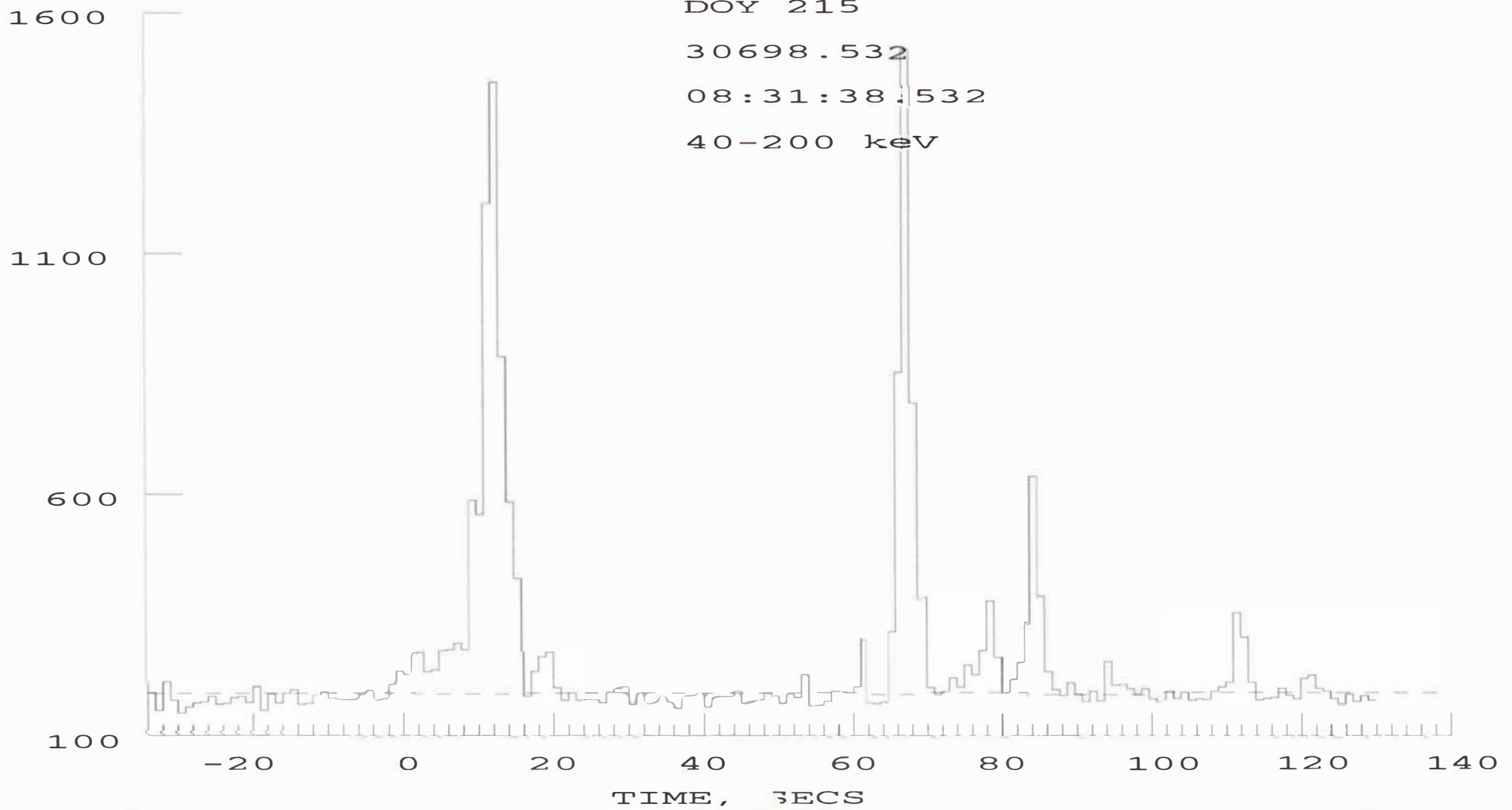
03/08/11

DOY 215

30698.532

08:31:38.532

40-200 keV



28/09/11

MESSENGER

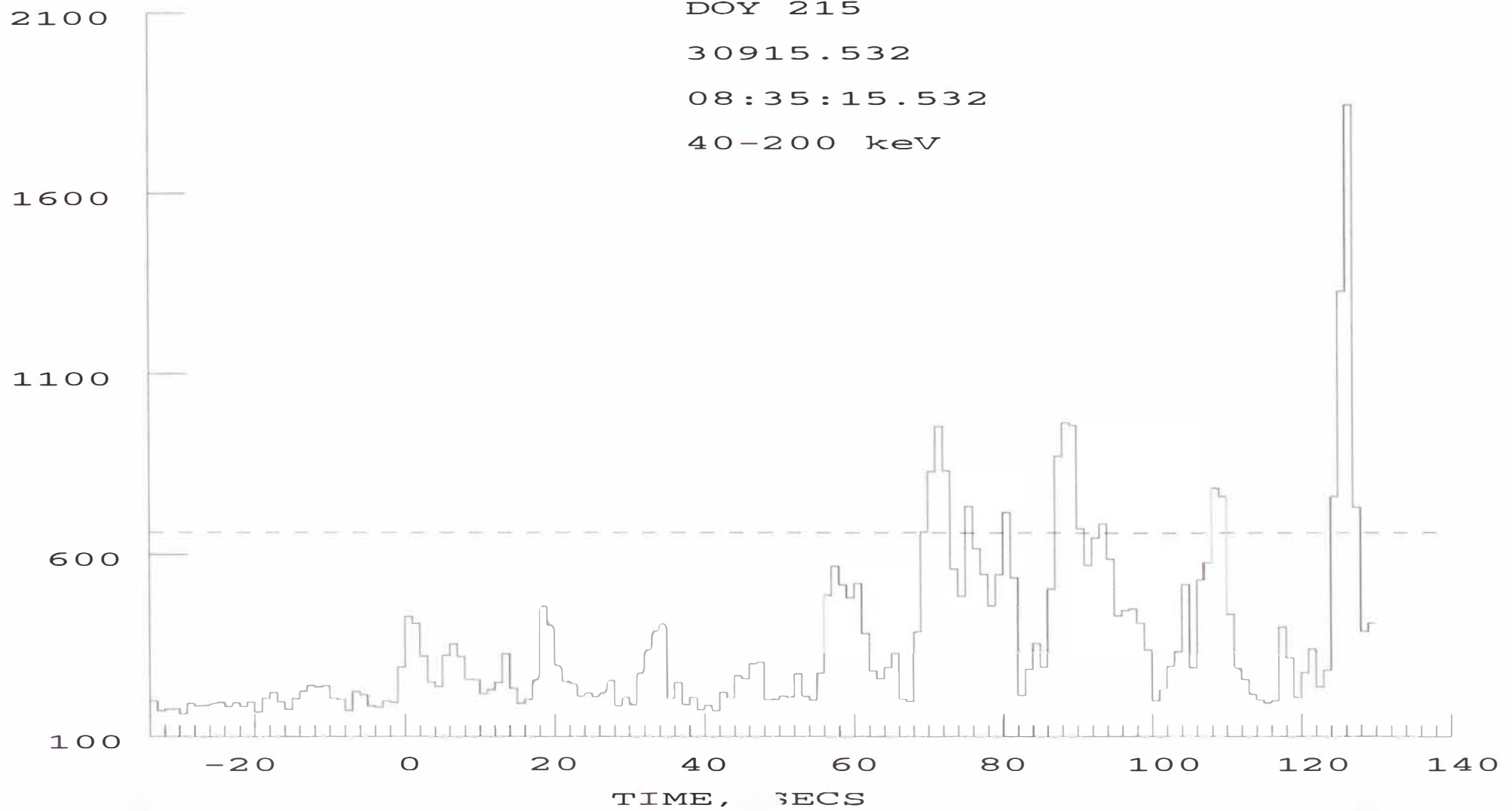
03/08/11

DOY 215

30915.532

08:35:15.532

40-200 keV



28/09/11

MESSENGER

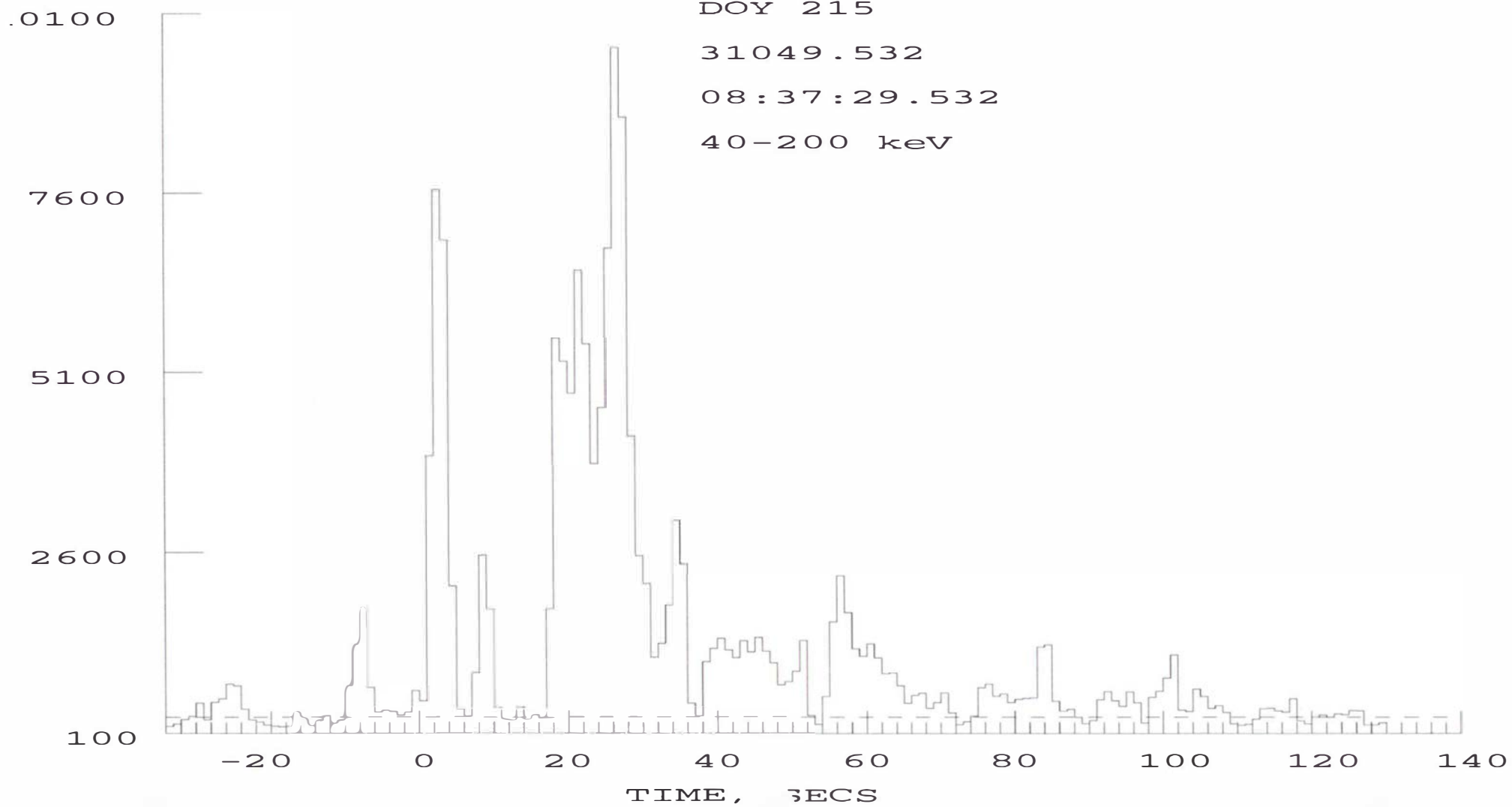
03/08/11

DOY 215

31049.532

08:37:29.532

40-200 keV



28/09/11

MESSENGER

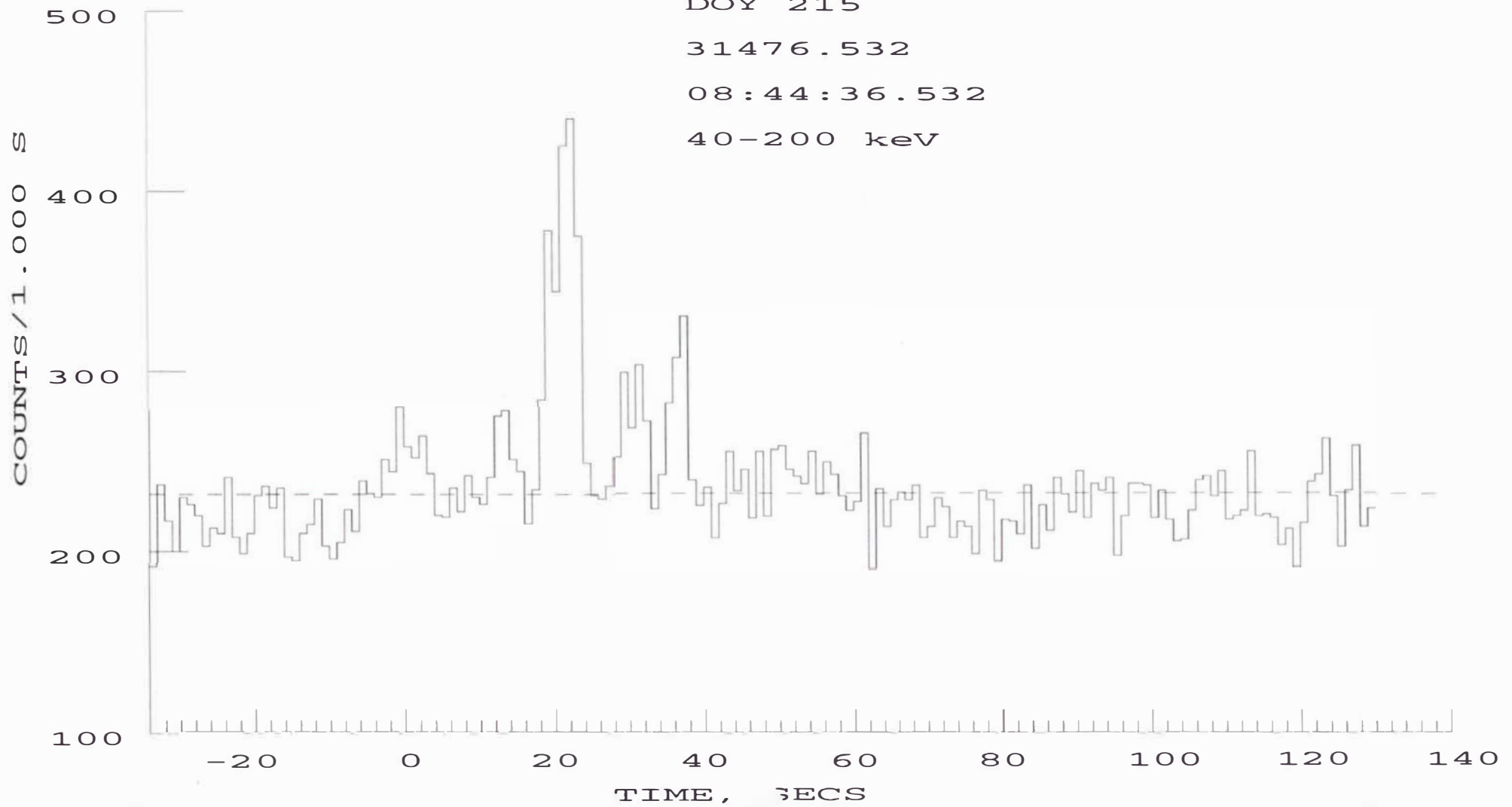
03/08/11

DOY 215

31476.532

08:44:36.532

40-200 keV



28/09/11

MESSENGER

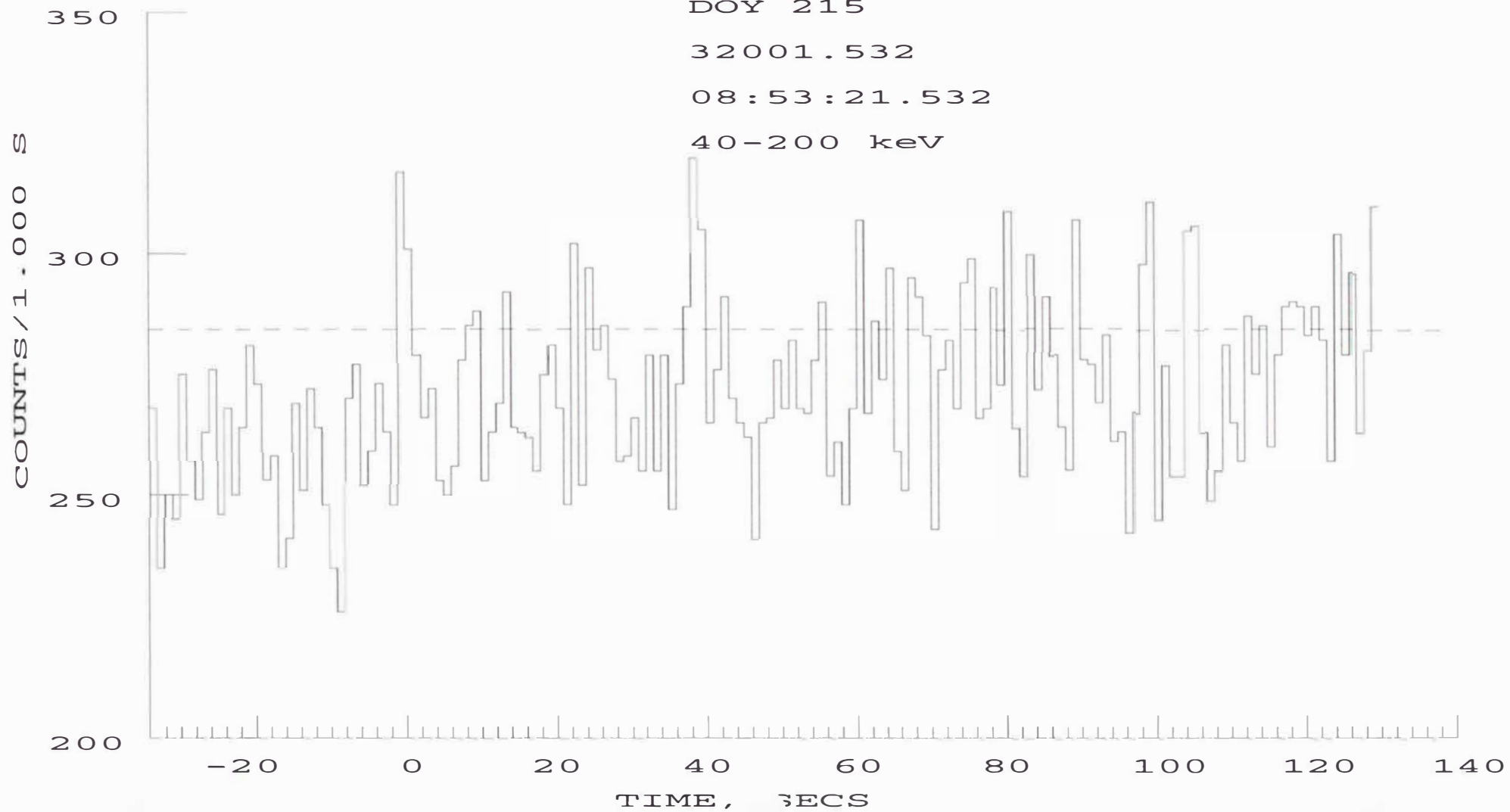
03/08/11

DOY 215

32001.532

08:53:21.532

40-200 keV



28/09/11

MESSENGER

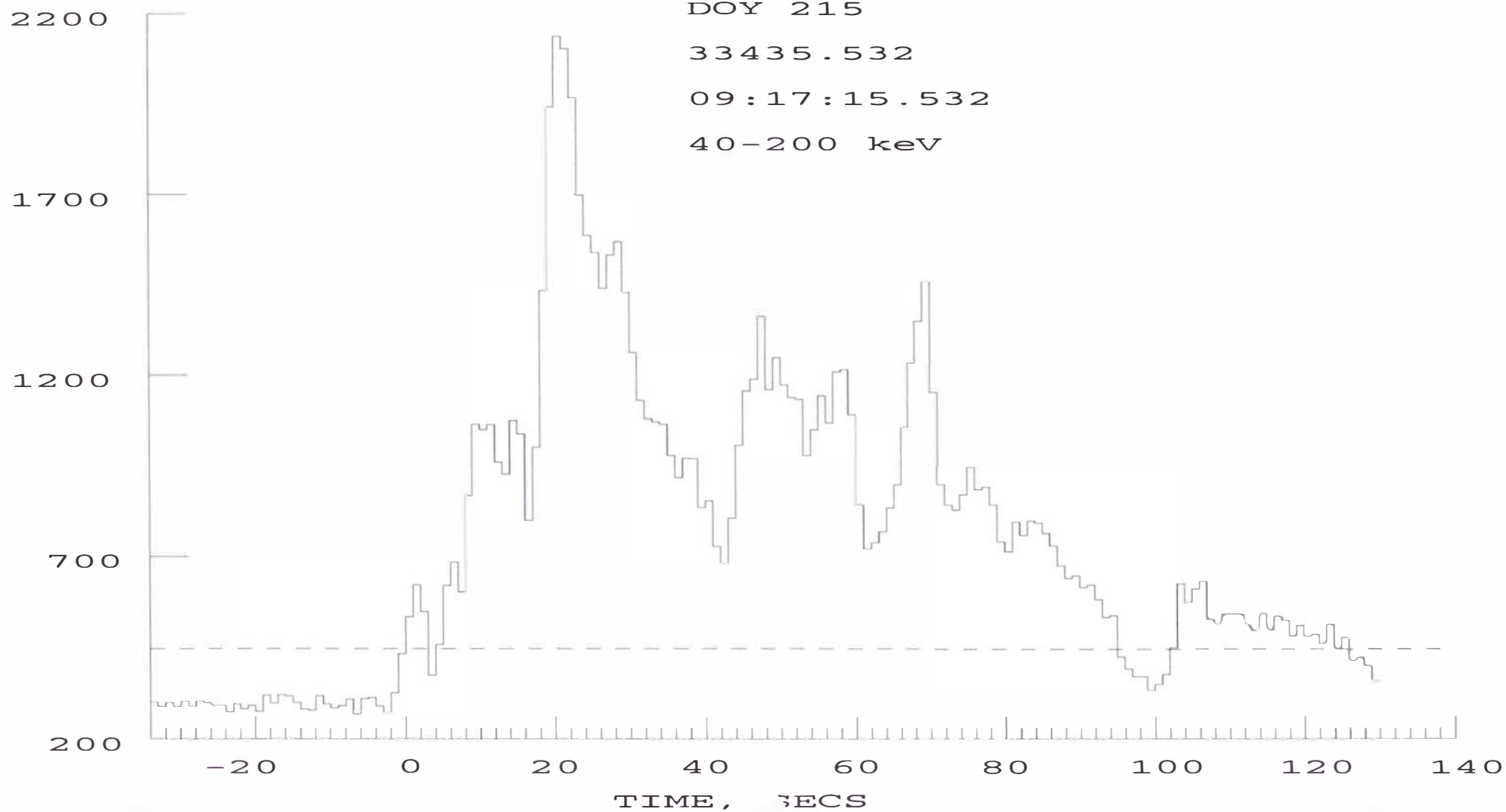
03/08/11

DOY 215

33435.532

09:17:15.532

40-200 keV



28/09/11

MESSENGER

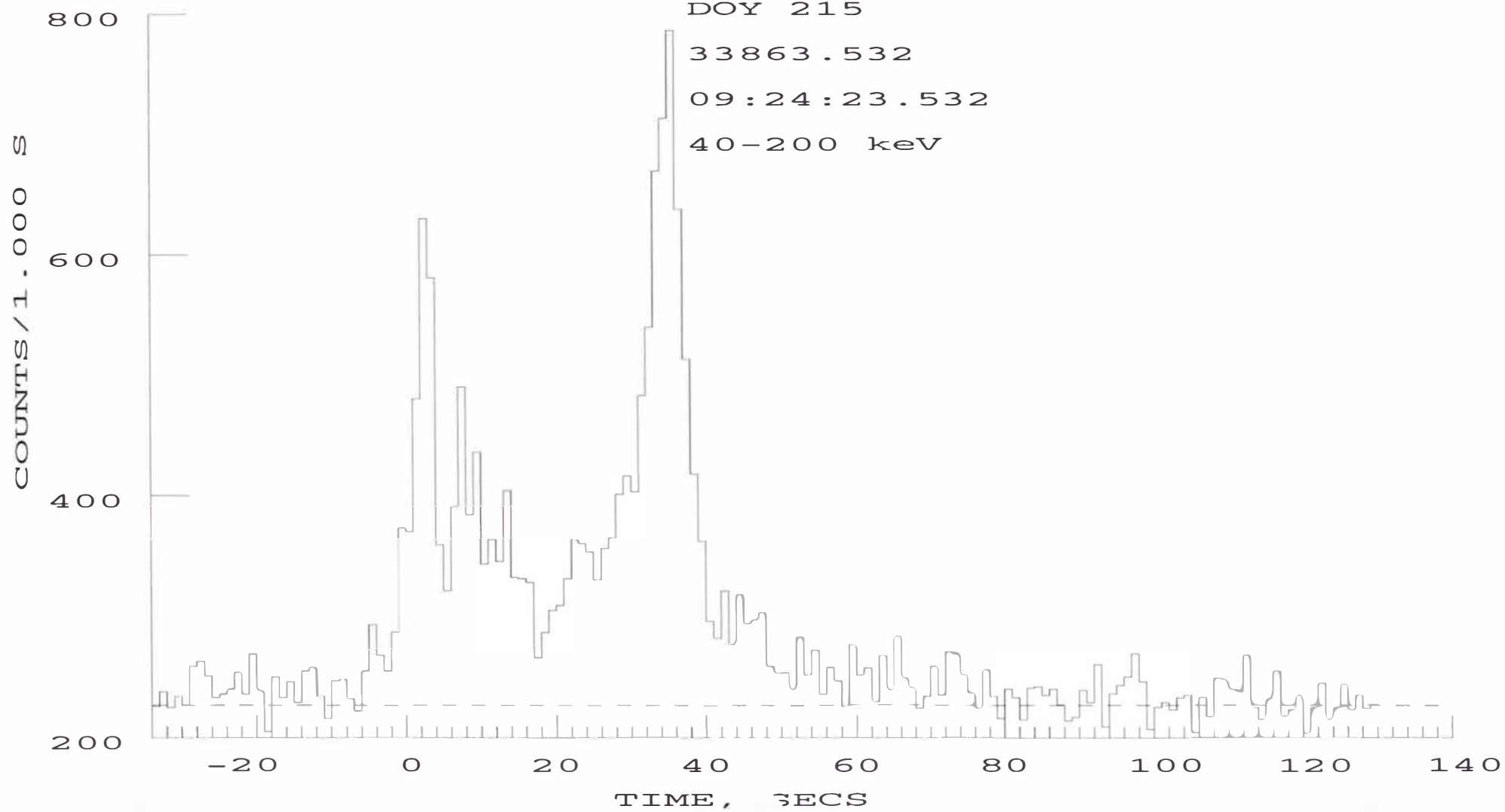
03/08/11

DOY 215

33863.532

09:24:23.532

40-200 keV



Subject: [Ipn] BAT lightcurve for trigger at 110803_1350

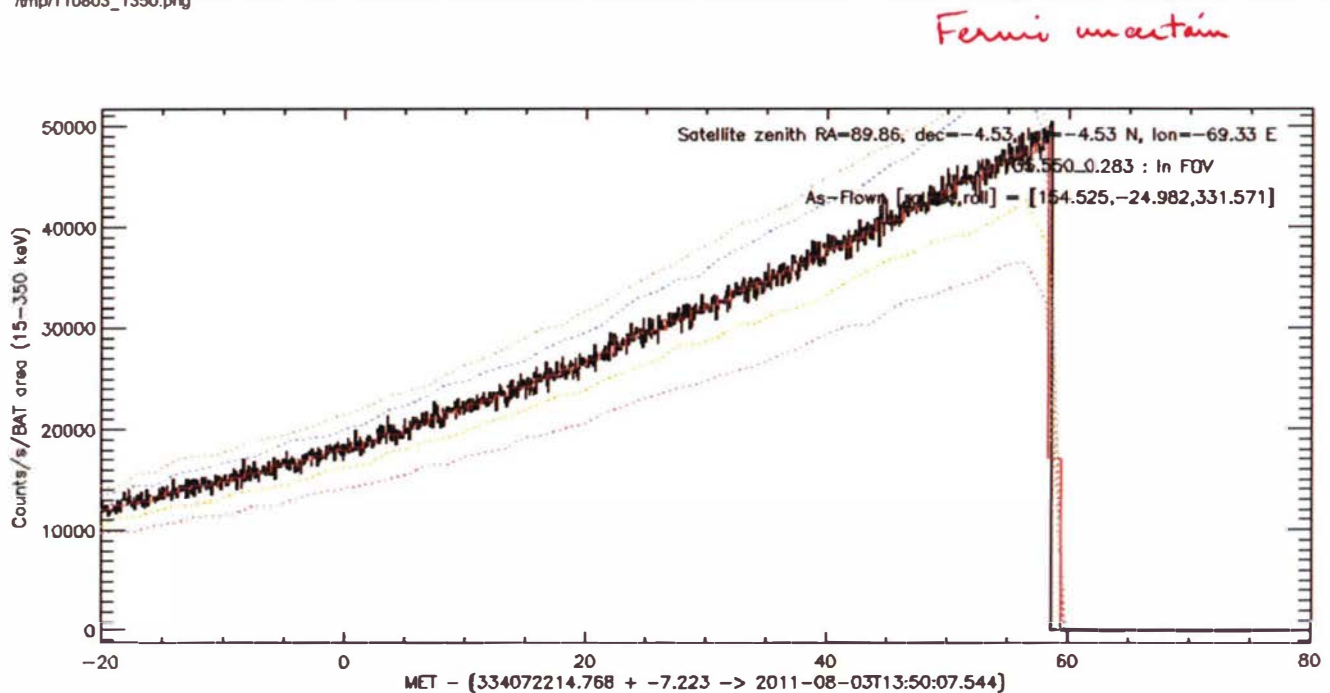
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 3 Aug 2011 10:01:46 -0600 (MDT)

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

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

/tmp/110803_1350.png



```
% /usr/local/bin/swinfo -o 334072214.767 -s 135.550 0.283
Time(MET + UTCF -> UT):      334072214.768 + -7.223 -> 2011-08-03T13:50:07.544
Swift Zenith(RA,dec):        89.86, -4.53
Swift Location(lon,lat,alt):  -69.33 E, -4.53 N, 594 km
Obs Sequence Number:         00074101020
Obs Target Name:              saa-cold-215-04
Obs Date and Times:           2011-08-03 13:48:54 - 14:01:50
Obs Pointing(ra,dec,roll):    154.525, -24.982, 331.57
135.550_0.283_imageloc (boresight_dist, angle): (31, -100)
135.550_0.283_exposure (cm^2 cos adjusted): 1934
135.550_0.283_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>

/tmp/110803_1350_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110803_1350.png

/tmp/110803_1350.png

Content-Type: image/png
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

Date: Mar 15 2013

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?

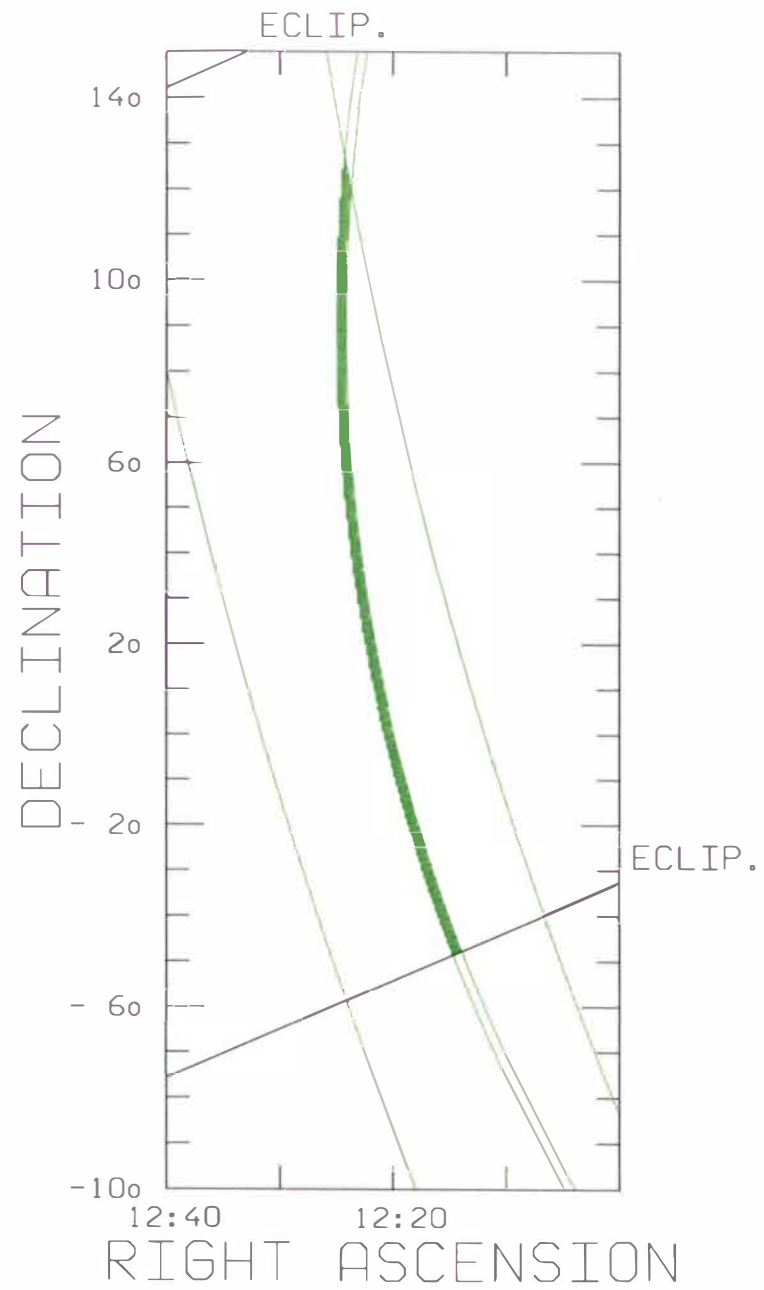
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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>)

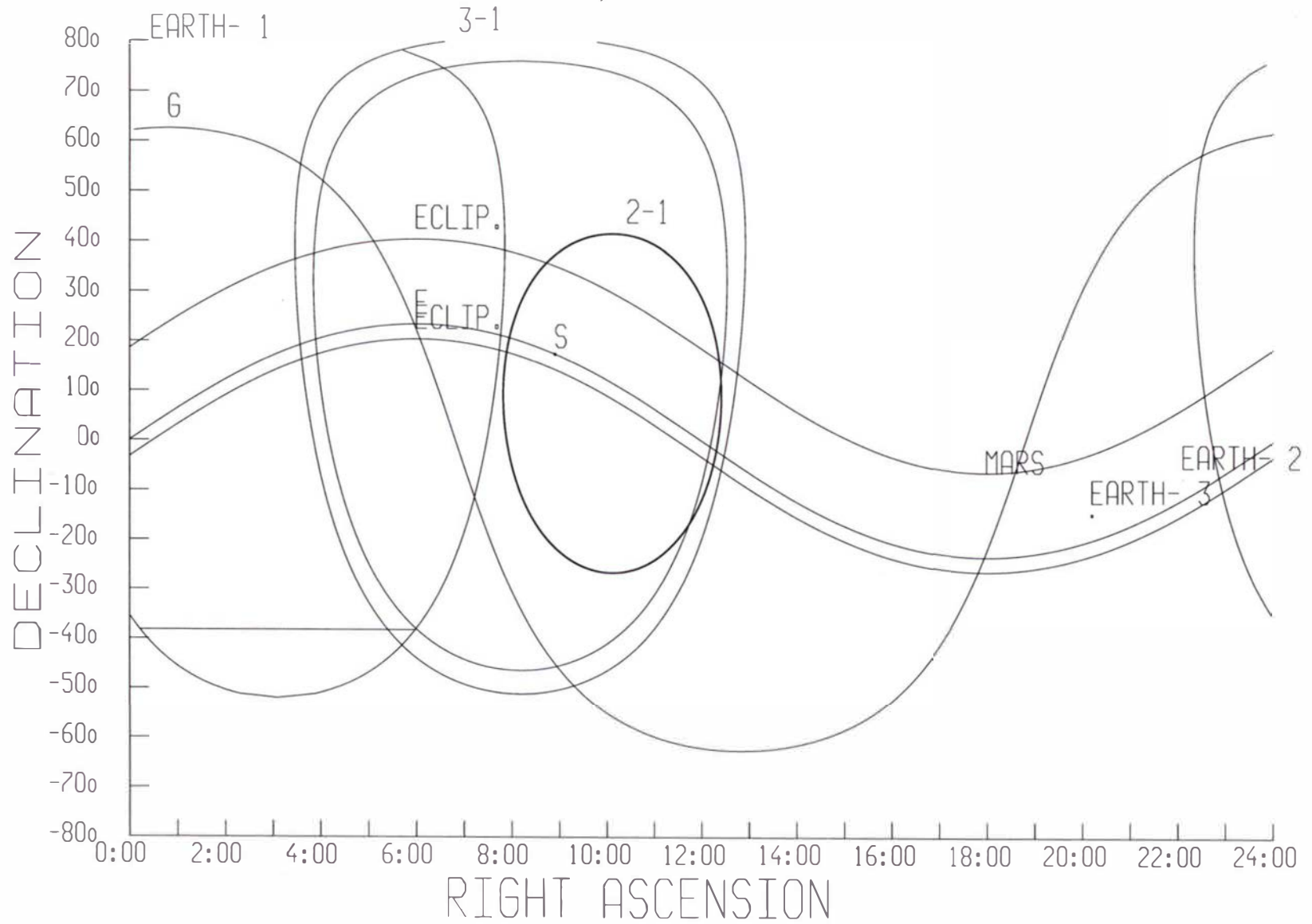
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

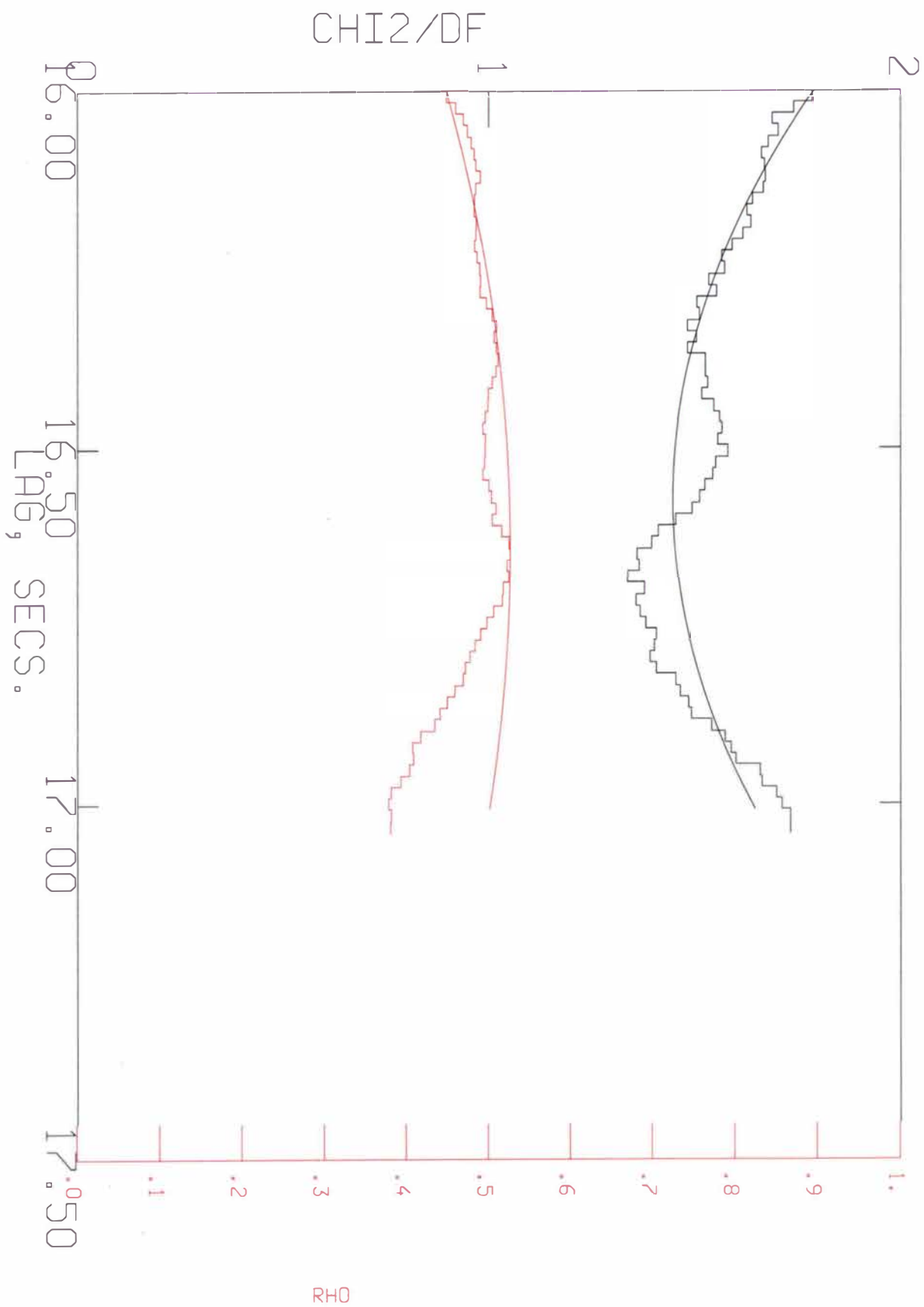


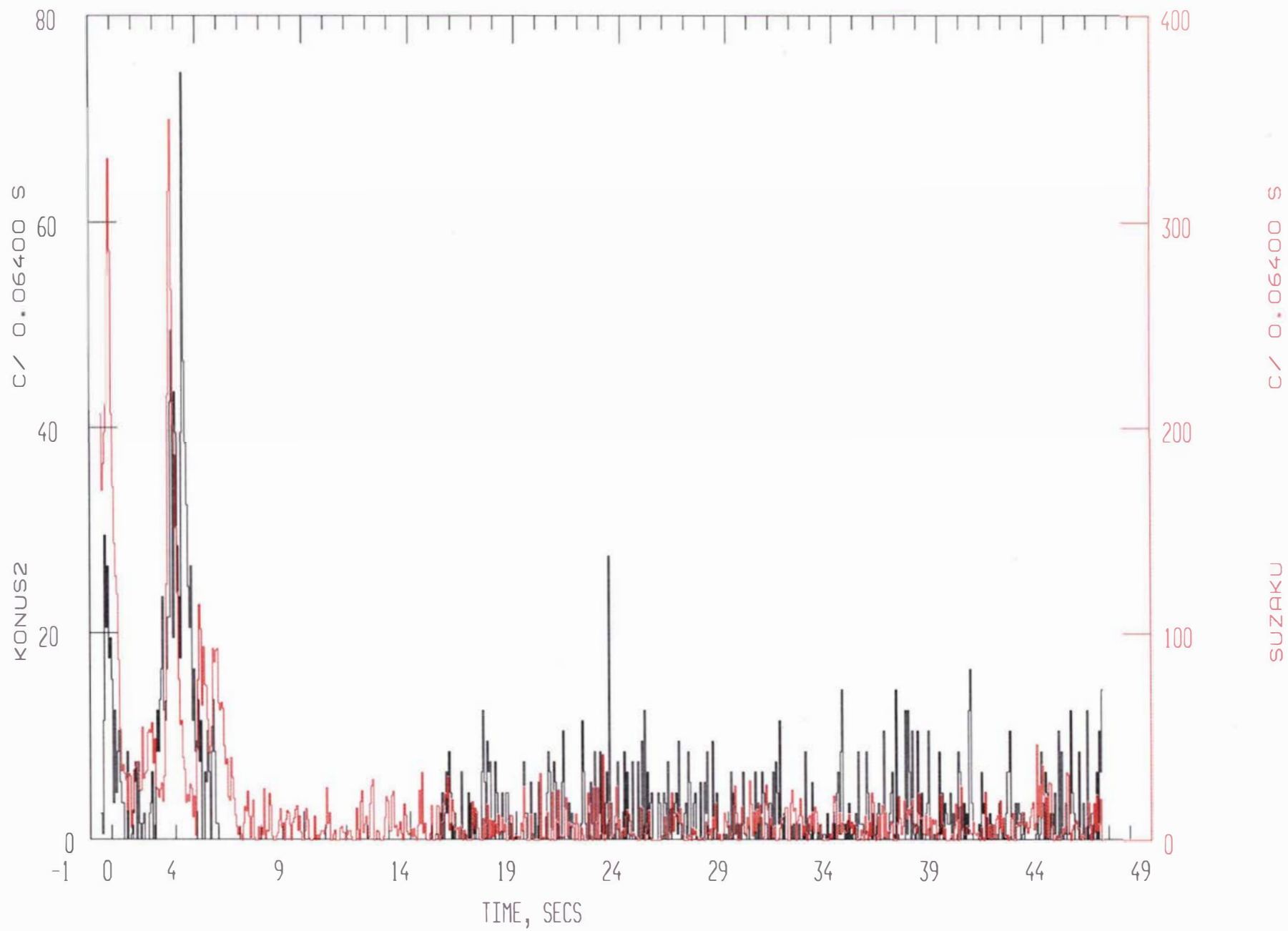
EVENT OF AUG 3, 2011 17:12

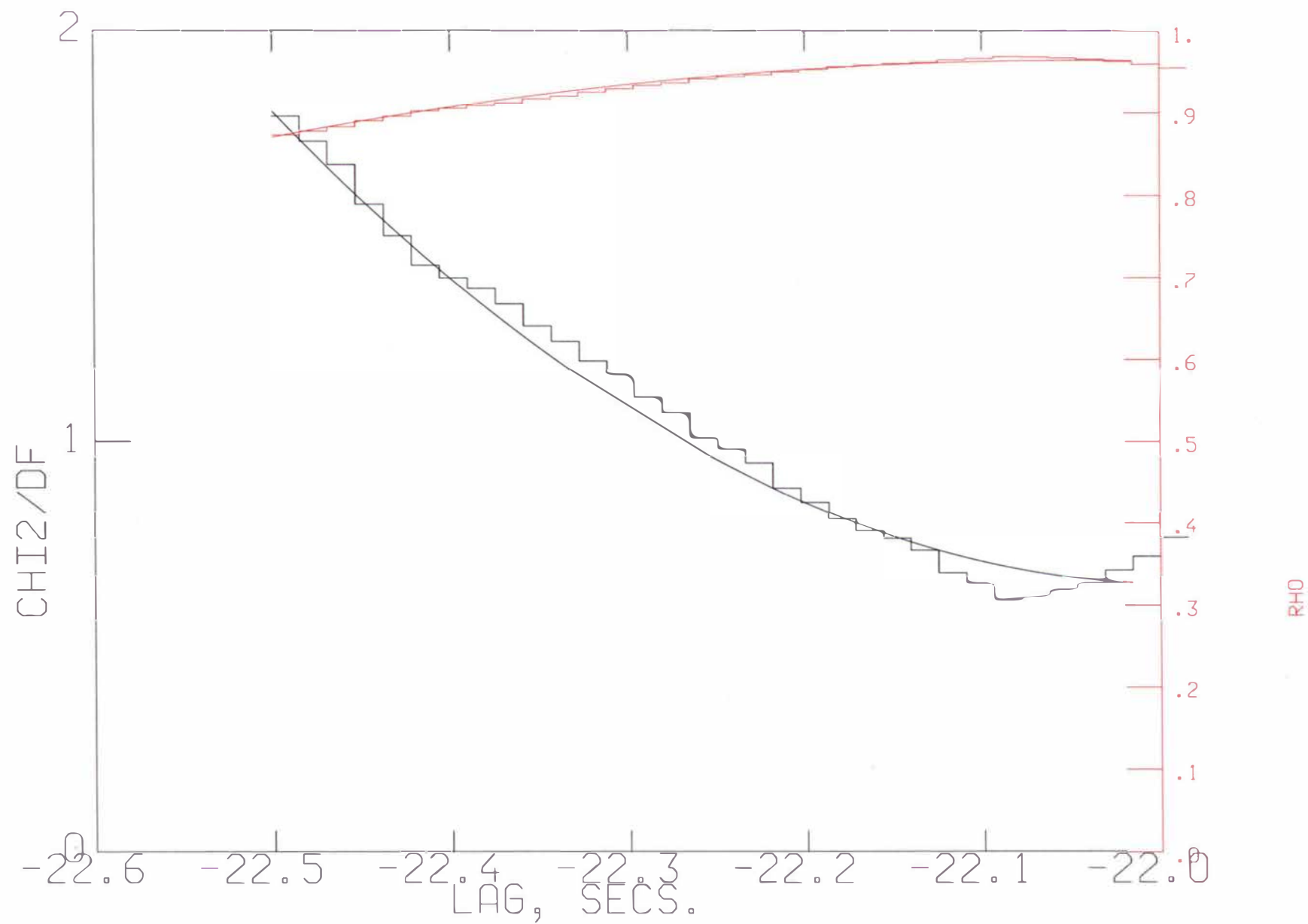
15/03/2013

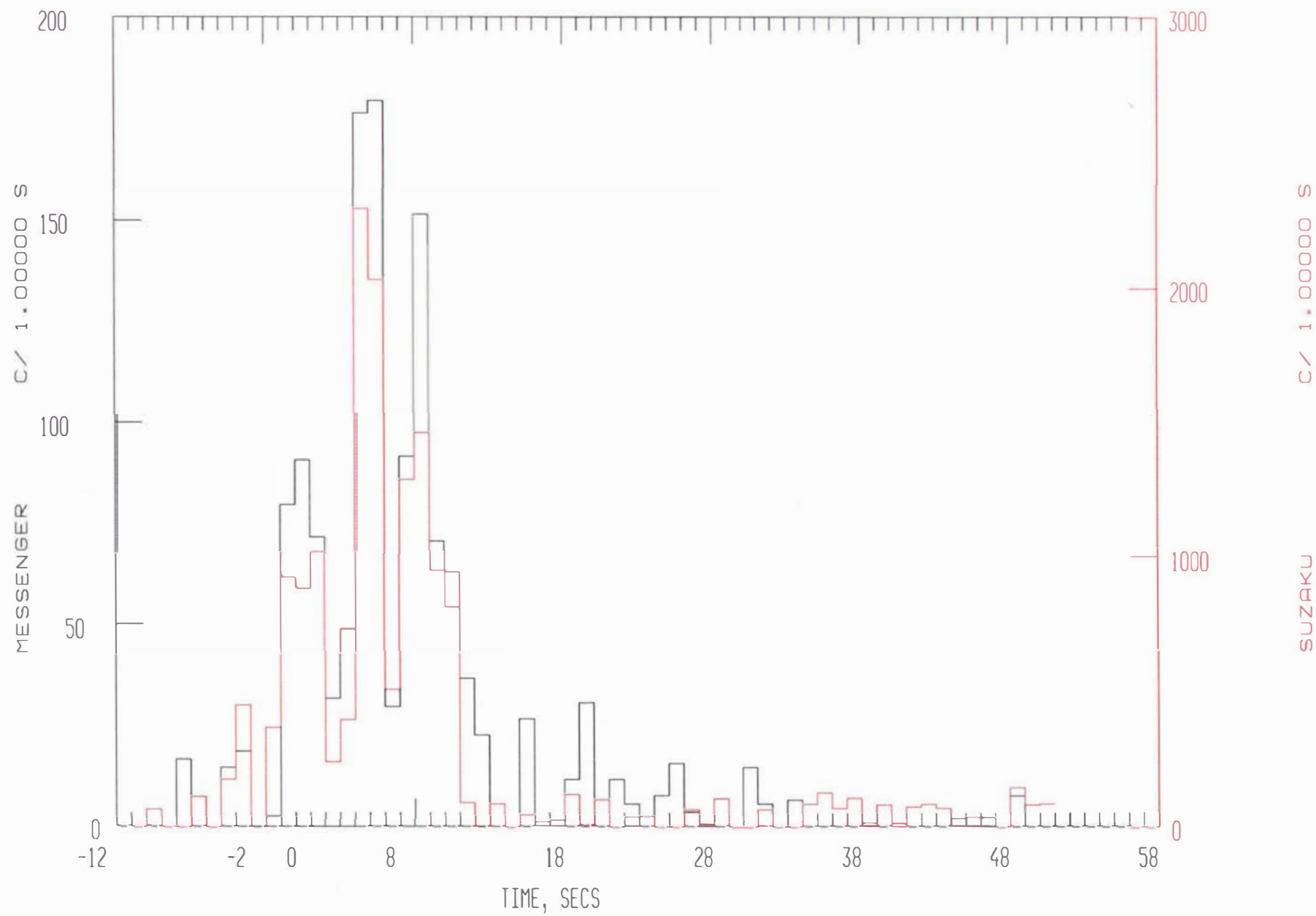
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 SUZAKU 2 MESSENGER 3 KONUS2











B

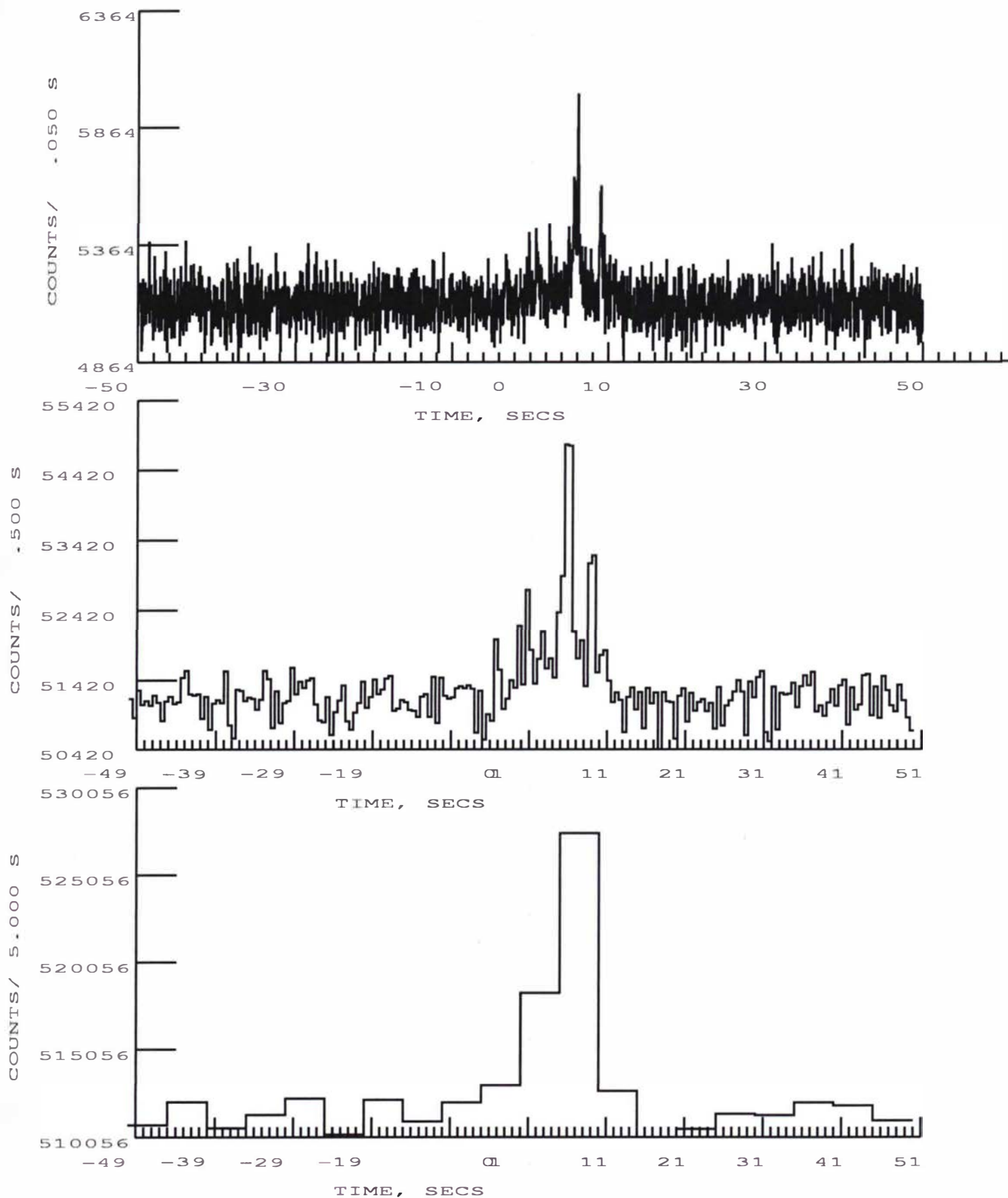
INTEGRAL

03/08/11

61946.000

17:12:26.0

20/01/14



KONUS2

03/08/11

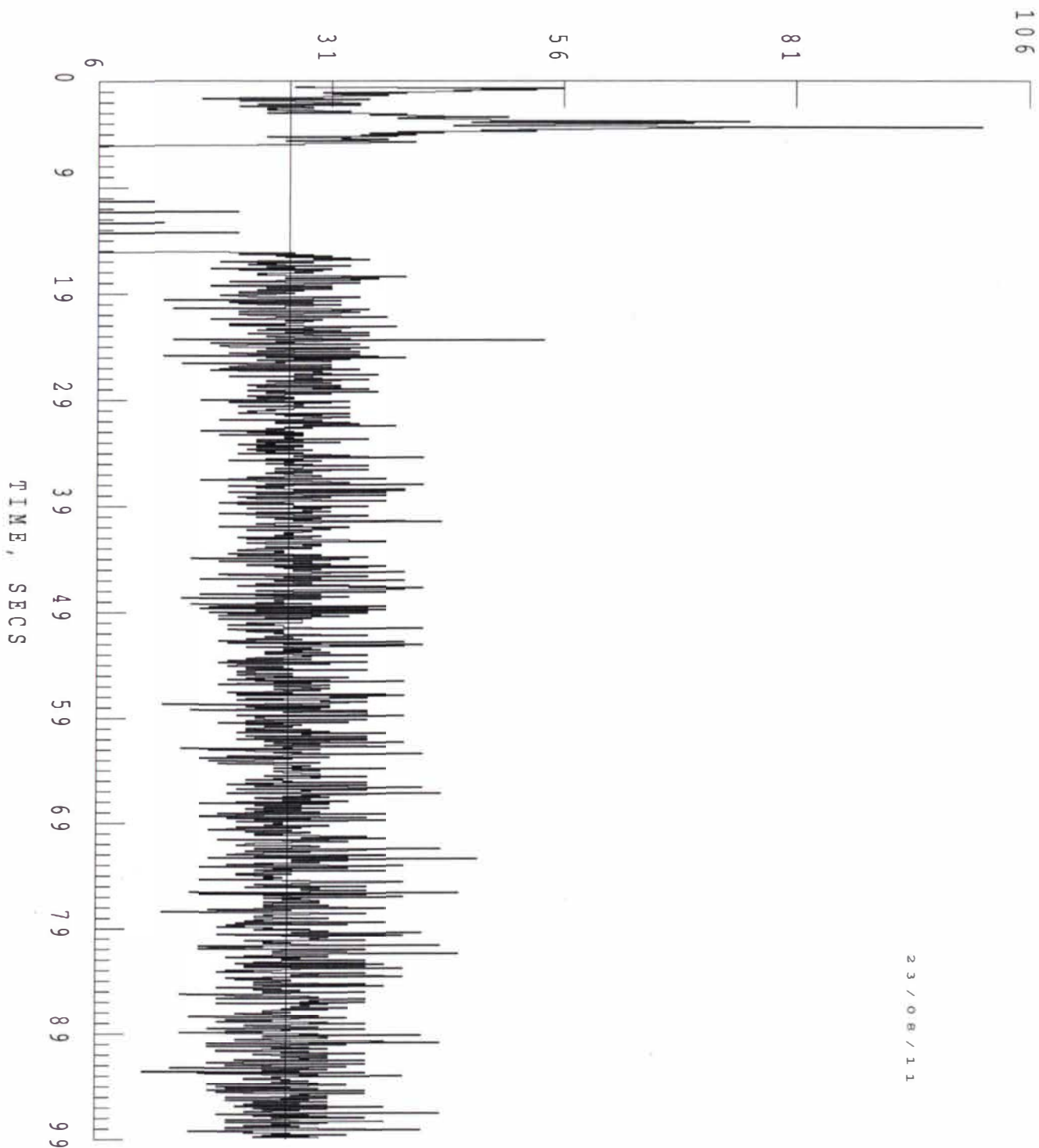
61946.466

17:12:26

B

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110803 61945

TRIGGER TIME: 03/08/11 DOY 215 Julian 2455778.21697 UT = 17.207 17:12:25 (61946.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

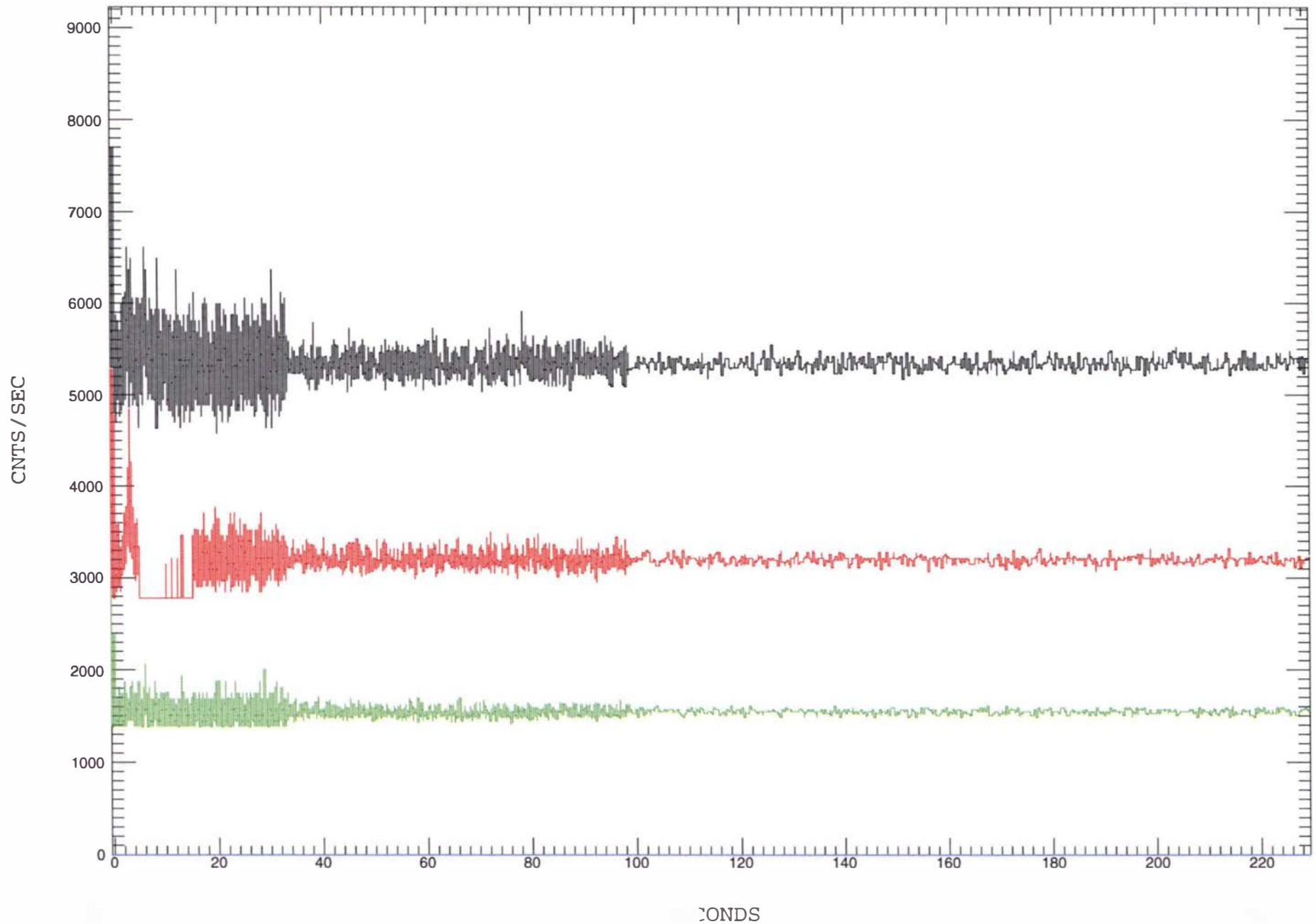
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



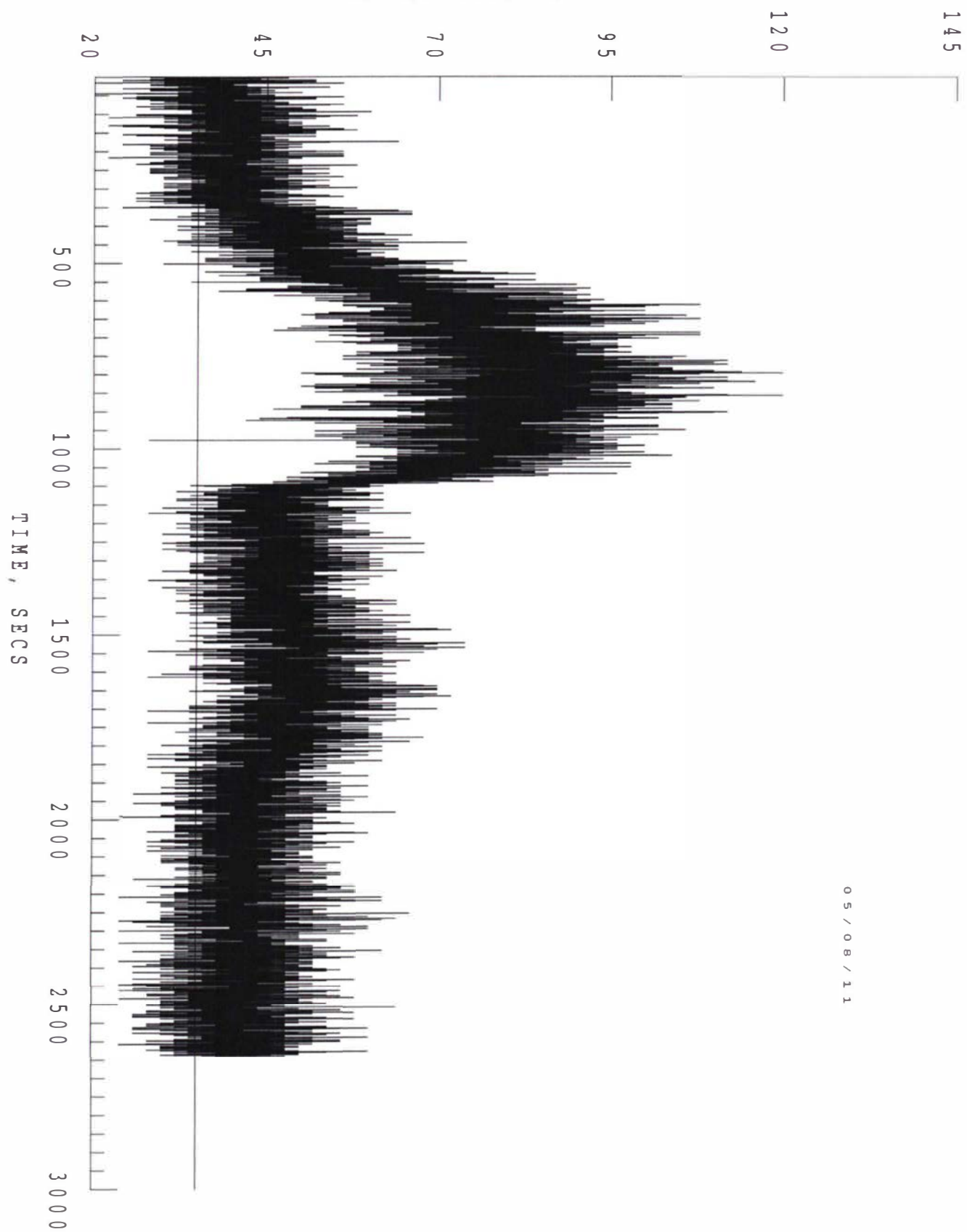
MS01

03/08/11

60630.368

50 - 3000 keV

COUNTS/0.250 S



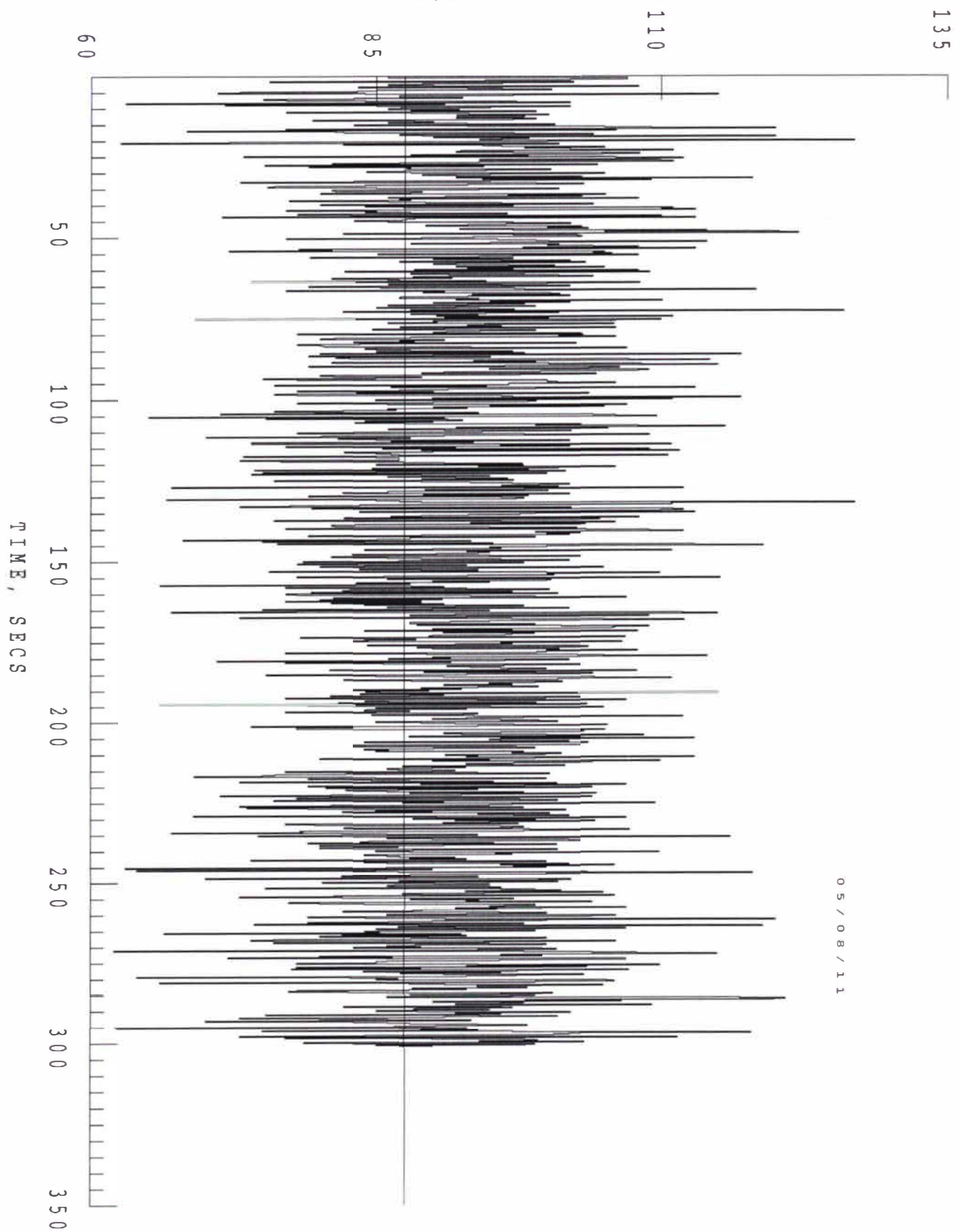
B

HESSI

03/08/11 61795.000 (KONUS2_20110803_61946)

25- 150 keV

COUNTS/0.250 S



B

28/09/11

MESSENGER

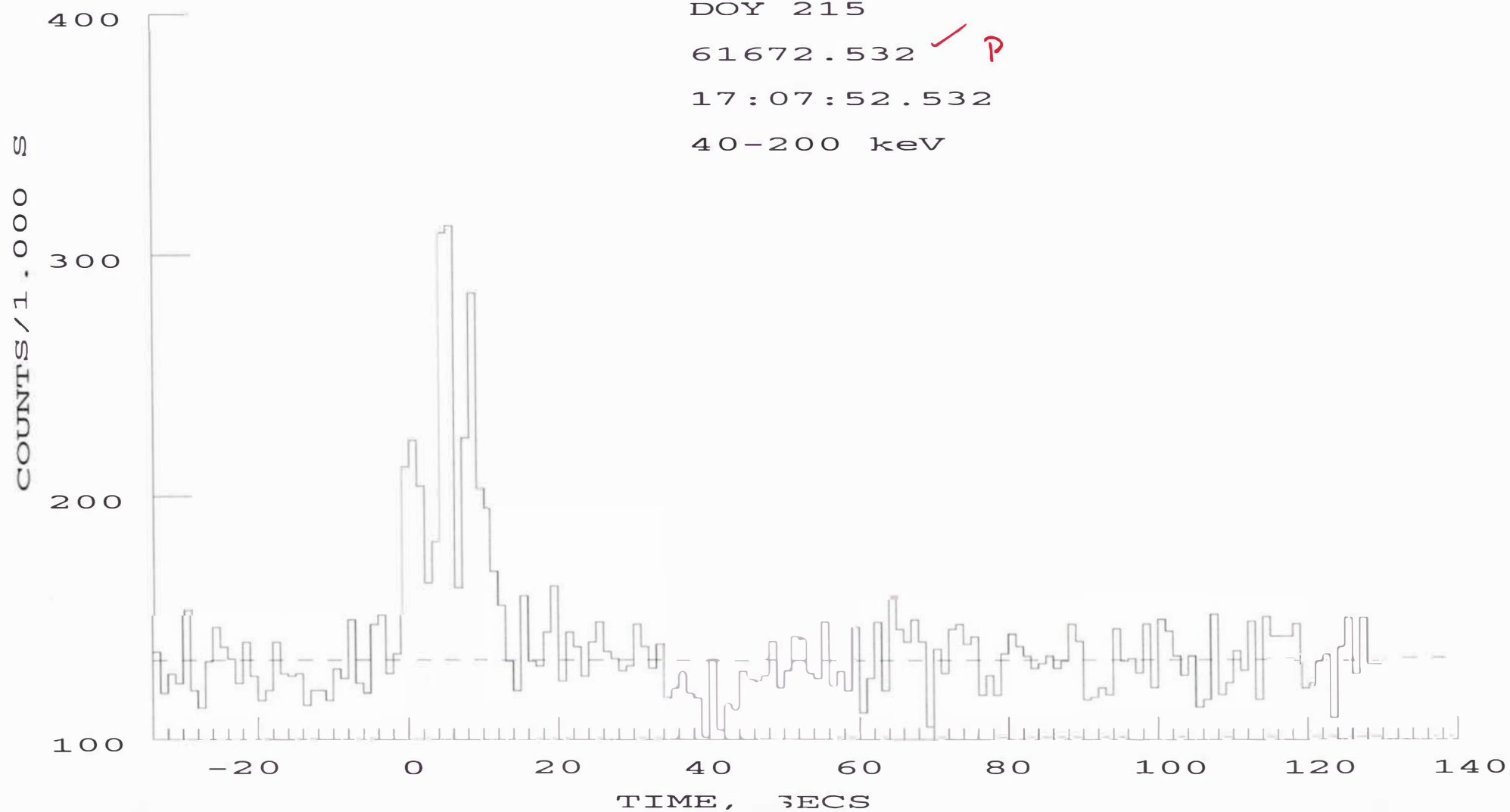
03/08/11

DOY 215

61672.532 ✓ P

17:07:52.532

40-200 keV



SUZAKU

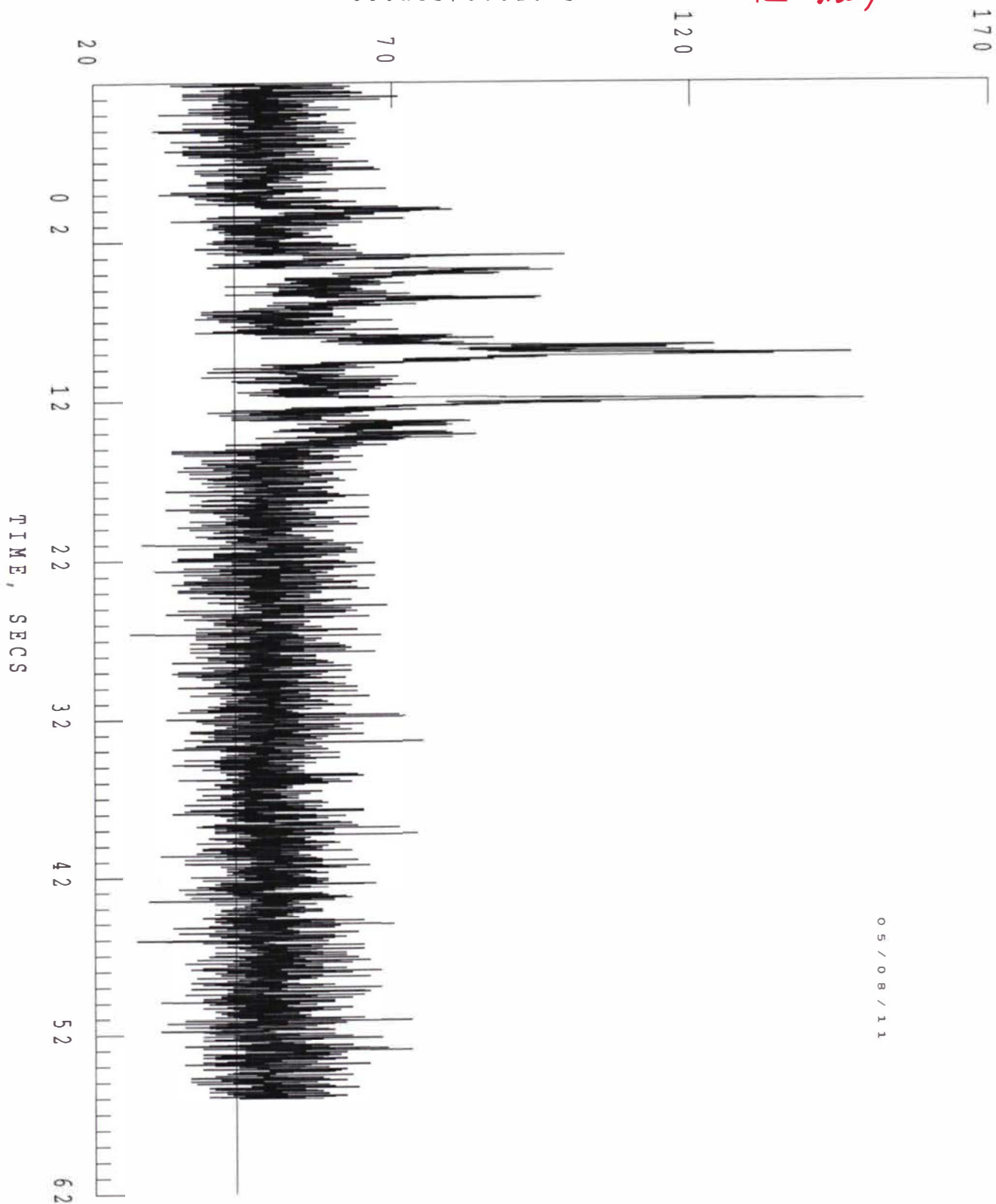
03/08/11

61942.674

50 - 240 keV

COUNTS/0.016 S

B
Same as burst on the 2nd!
(time was wrong - it is on
the 3rd)



Be

From yamaoka@phys.aoyama.ac.jp Wed Aug 10 23:25:35 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Thu, 11 Aug 2011 15:24:50 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
o: Kevin Hurley <khurley@ssl.berkeley.edu>
Cc: yamaoka@phys.aoyama.ac.jp, val@mail.ioffe.ru, ohno@astro.isas.jaxa.jp
Subject: Re: GRB110802 62658 Suzaku Ephemeris : ae20110803_0543_0544 BST01
X-Ucb-Scan-Signature: 2817f6b5c07ddcbd5e149e254fa85d90ac6148d0
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Kevin,

We sent two bursts which have the date of August 2: 55157 s and 62658 s.
The former one is a possible short-duration burst which has a correct time assi
the latter one has an incorrect time and occurred at 61942.674 s on August 3.

Best wishes,
Kazu

On Mon, 8 Aug 2011 10:00:34 -0700 (PDT)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear Kazu,

>
> Sorry, but I don't understand. All the files that I received for
> August 2 seem to have the same time and the same ephemeris. Do you
> mean that this burst occurred at 61942.674 s on August 3?

>
> Kevin

>
> > From yamaoka@phys.aoyama.ac.jp Fri Aug 5 10:36:26 2011
> > X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
> > Date: Sat, 6 Aug 2011 02:35:55 +0900
> > From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
> > To: khurley@ssl.berkeley.edu, val@mail.ioffe.ru
> > Cc: ohno@astro.isas.jaxa.jp, yamaoka@phys.aoyama.ac.jp
> > Subject: Re: GRB110802 62658 Suzaku Ephemeris : ae20110803_0543_0544 BST01
> > X-Ucb-Scan-Signature: 59424102c55615fe8bb21b93a9e4e3b7a514cb34
> > X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.931'
> > X-Ucb-Notice: This message has been processed by a spam tagging system.

> > Hi Kevin and Valentin,

> > This one has a wrong time.
> > I have just sent you the correct data.
> > Sorry for the inconvenience.

> > Best wishes,
> > Kazu

> > On Thu, 4 Aug 2011 05:58:11 +0000 (UTC)
> > aetouban@astro.isas.jaxa.jp (Astro-E2 USC Duty Scientist) wrote:

> > > 6941.549 260.52 -25.99

> > >
> >

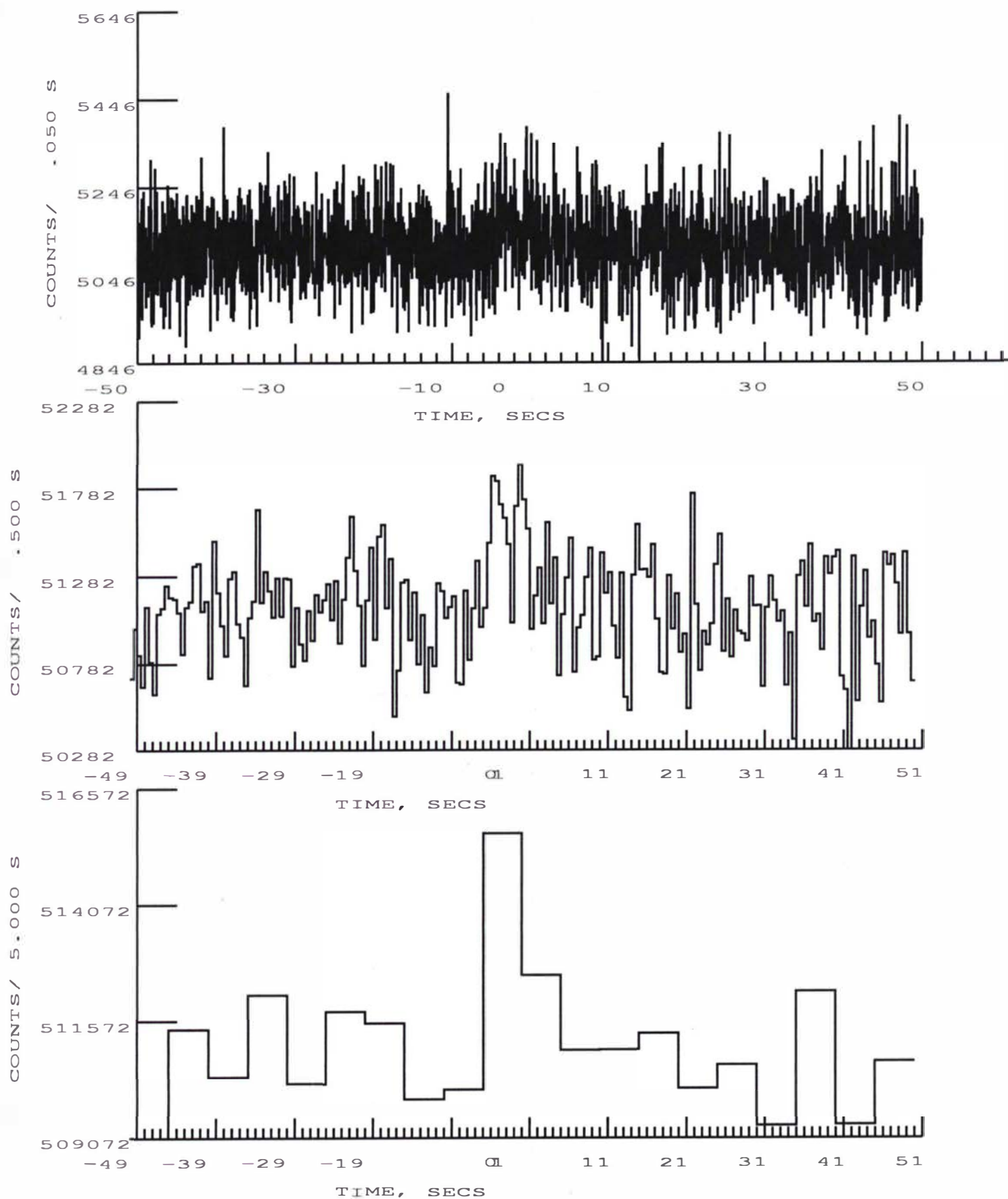
INTEGRAL

03/08/11

67645.000

18:47:25.0

20/01/14



GLAST

03/08/11

67645.428

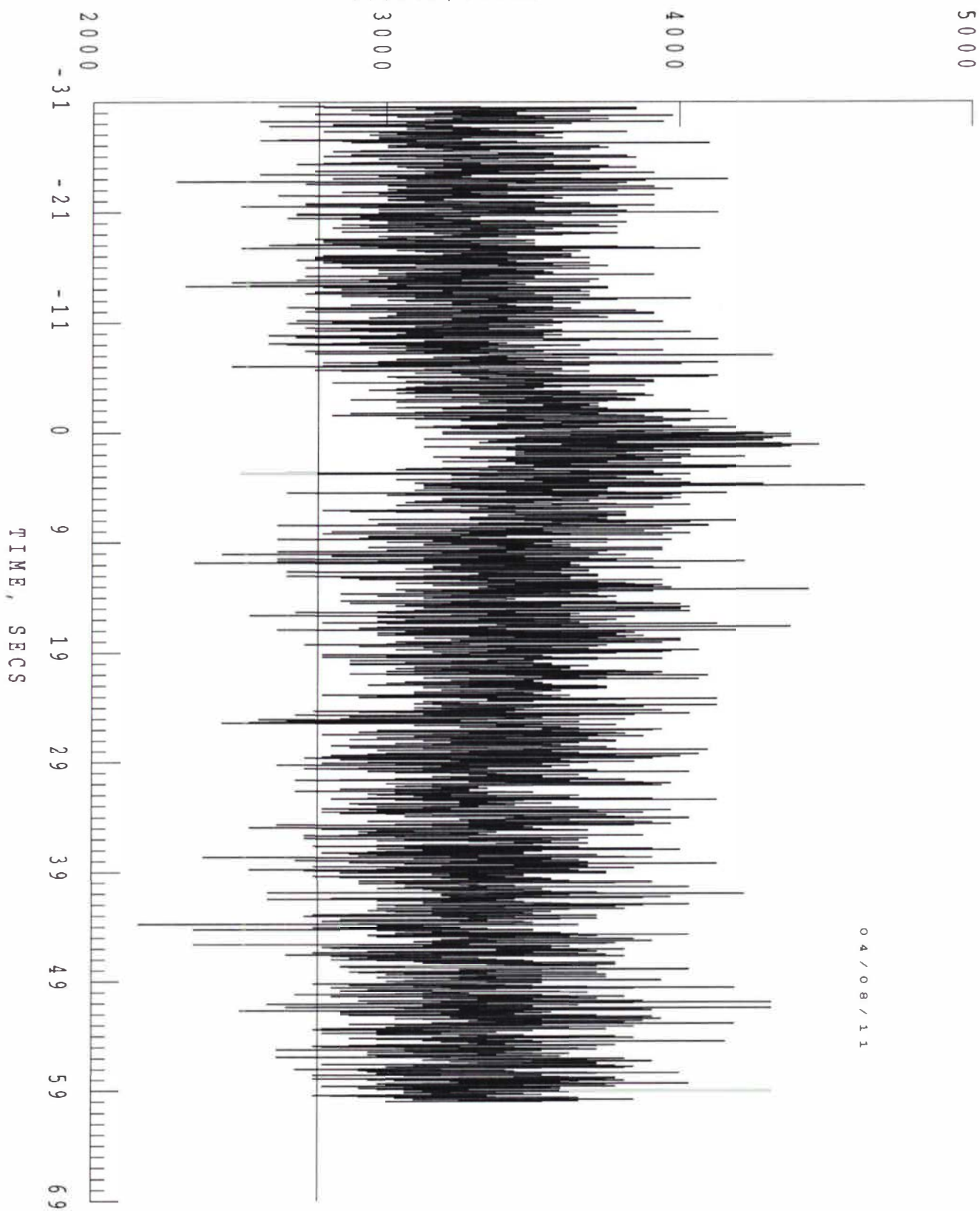
18:47:25

CBB

26- 293 keV

300.42, -10.56, 7.49

COUNTS/0.032 S



MS01

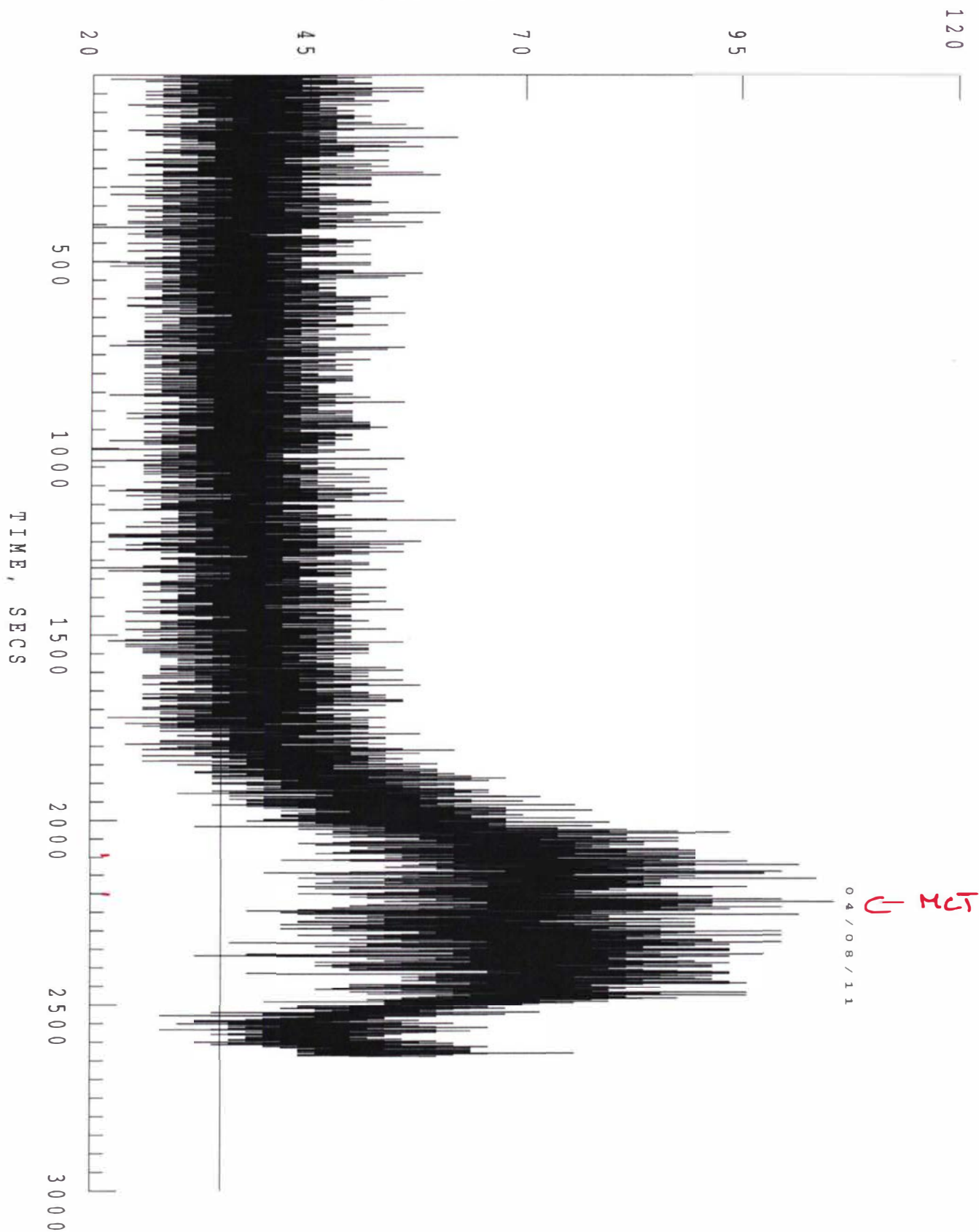
03/08/11

66330.277

C 易 易 易

50 - 3000 keV

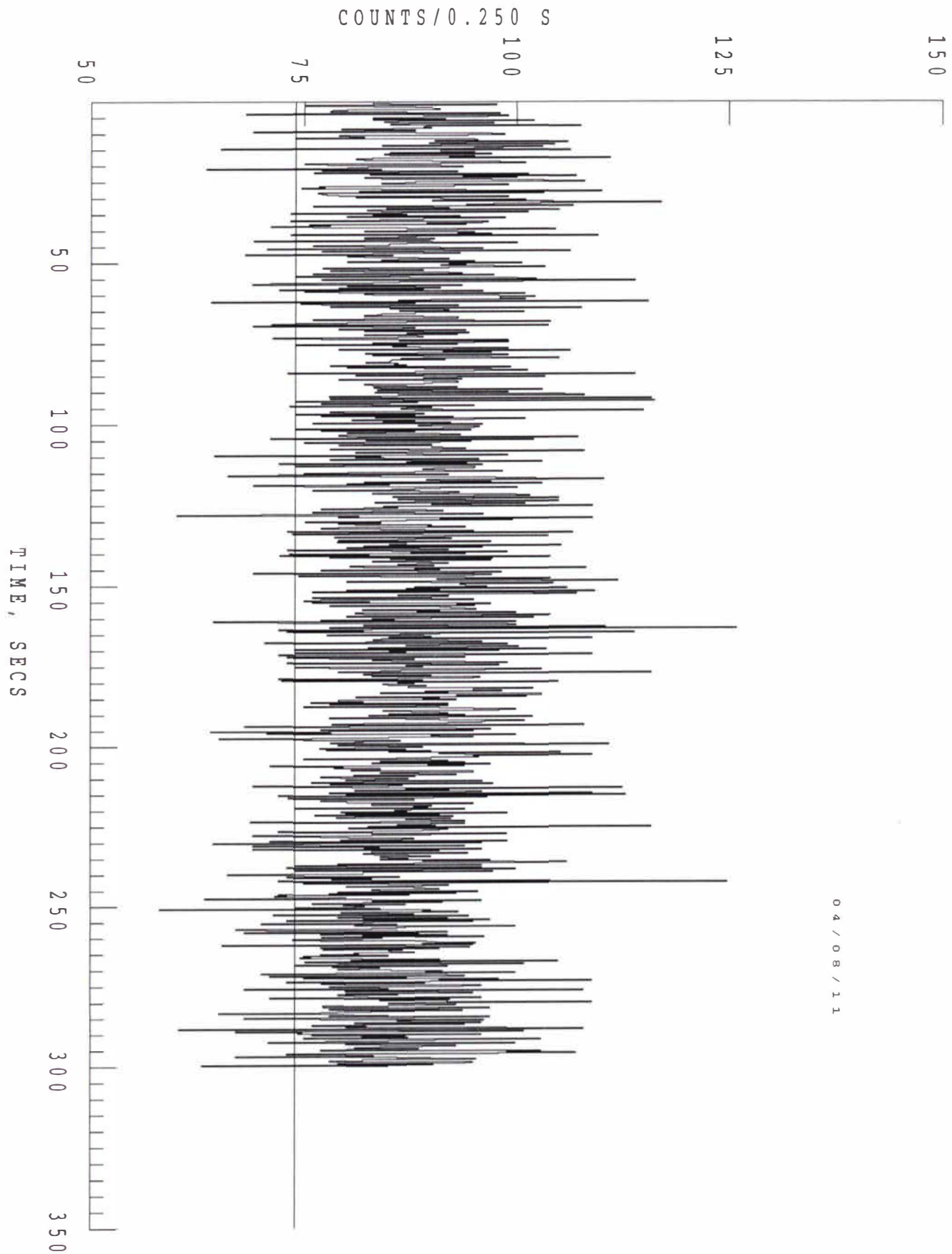
COUNTS/0.250 S



HESSI

03/08/11 67495.000 (GLAST_20110803_67645) *CB BE*

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110803_1847

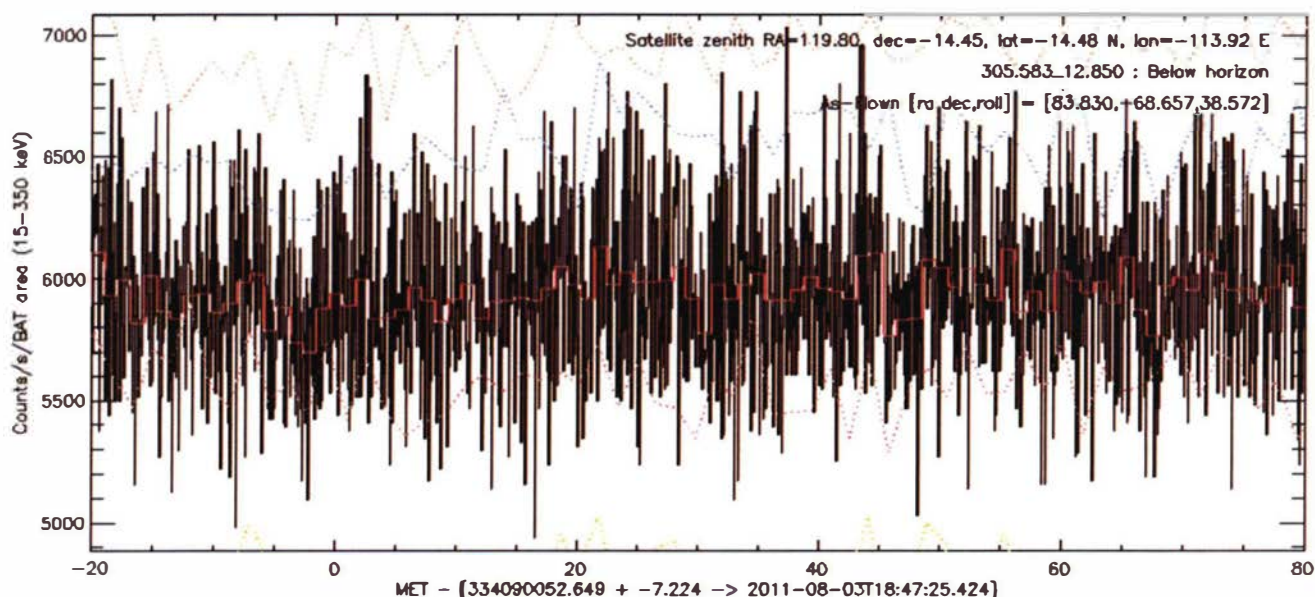
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 3 Aug 2011 14:46:40 -0600 (MDT)

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

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

/tmp/110803_1847.png



```
% /usr/local/bin/swinfo -o 334090052.647 -s 311.250_15.350
Time(MET + UTCF -> UT): 334090052.648 + -7.224 -> 2011-08-03T18:47:25.423
Swift Zenith(RA,dec): 119.80, -14.45
Swift Location(lon,lat,alt): -113.92 E, -14.48 N, 592 km
Obs Sequence Number: 00045566001
Obs Target Name: LMC_Survey_145
Obs Date and Times: 2011-08-03 18:38:54 - 18:53:50
Obs Pointing(ra,dec,roll): 83.830, -68.657, 38.57
311.250_15.350_imageloc (boresight_dist, angle): (119, 106)
311.250_15.350_exposure (cm^2 cos adjusted): 0
311.250_15.350_altitude: -55 (down)
```

```
% /usr/local/bin/swinfo -o 334090052.648 -s 305.583_12.850
Time(MET + UTCF -> UT): 334090052.649 + -7.224 -> 2011-08-03T18:47:25.424
Swift Zenith(RA,dec): 119.80, -14.45
Swift Location(lon,lat,alt): -113.92 E, -14.48 N, 592 km
Obs Sequence Number: 00045566001
Obs Target Name: LMC_Survey_145
Obs Date and Times: 2011-08-03 18:38:54 - 18:53:50
Obs Pointing(ra,dec,roll): 83.830, -68.657, 38.57
305.583_12.850_imageloc (boresight_dist, angle): (118, 99)
305.583_12.850_exposure (cm^2 cos adjusted): 0
305.583_12.850_altitude: -60 (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>

/tmp/110803_1847.png Content-Type: image/png

[Ipn] BAT lightcurve for trigger at 110803_1847

Content-Encoding: base64

/tmp/110803_1847_bat64ms_ipn

/tmp/110803_1847_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

28/09/11

MESSENGER

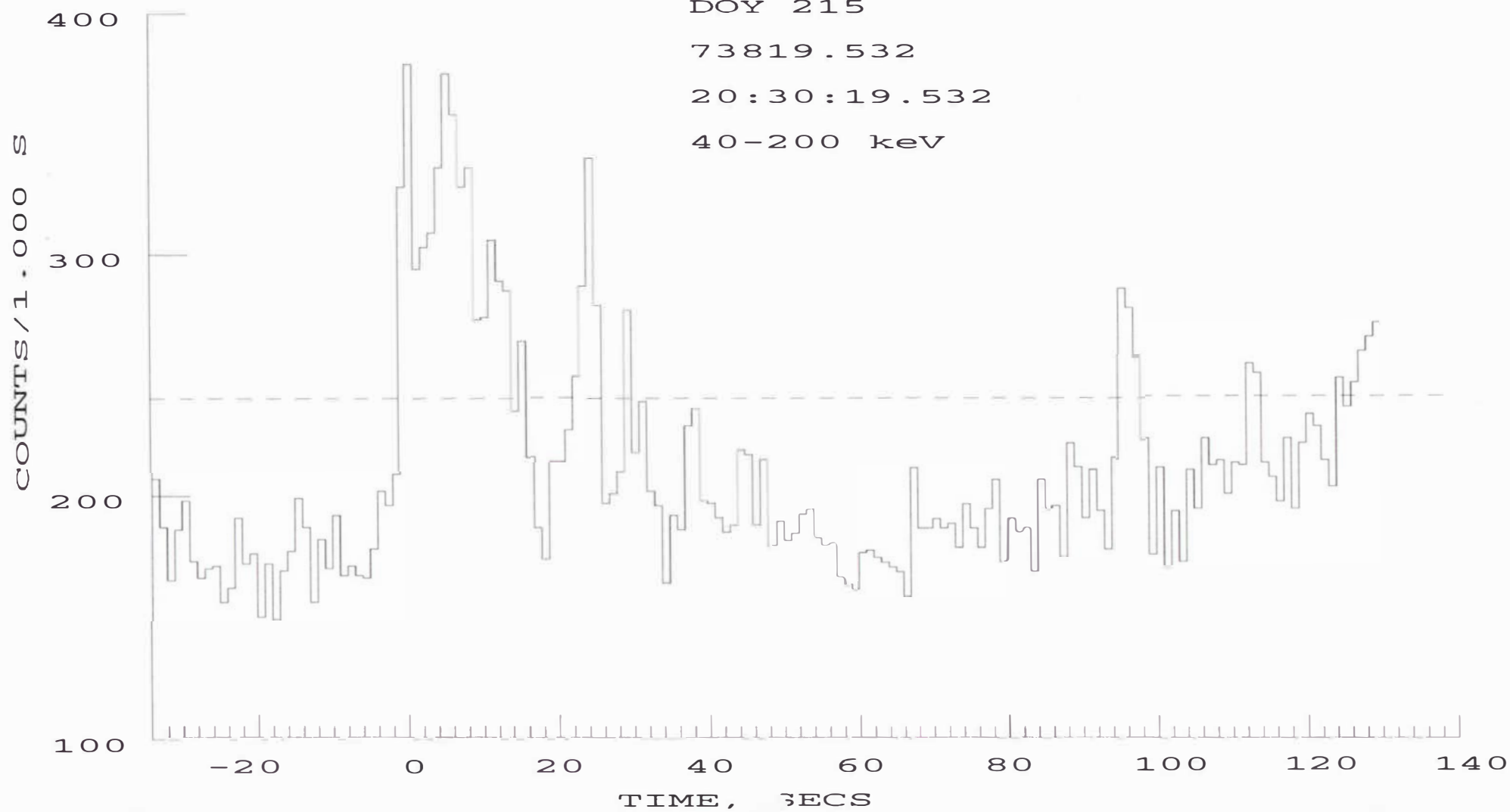
03/08/11

DOY 215

73819.532

20:30:19.532

40-200 keV



28/09/11

MESSENGER

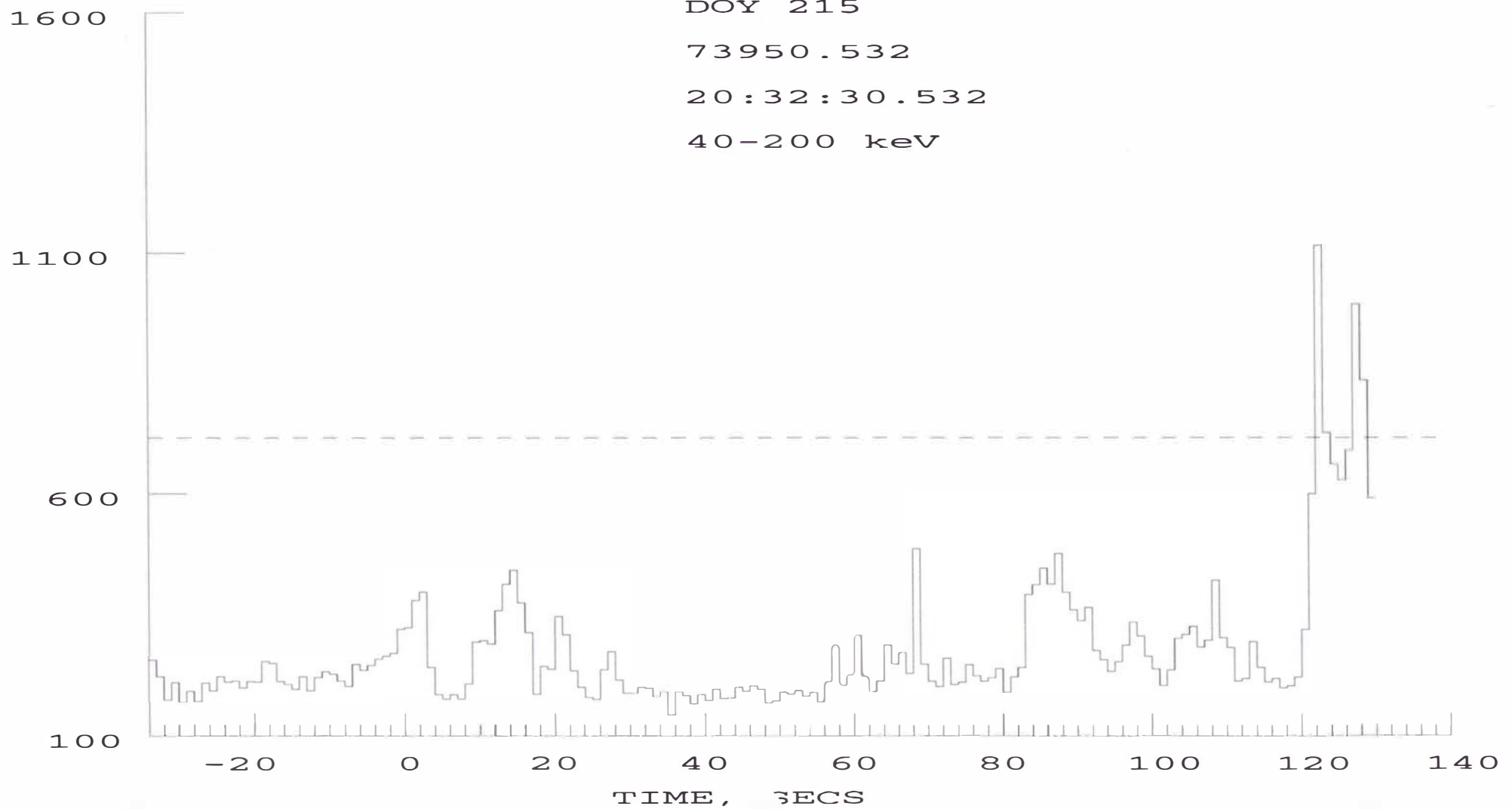
03/08/11

DOY 215

73950.532

20:32:30.532

40-200 keV



28/09/11

MESSENGER

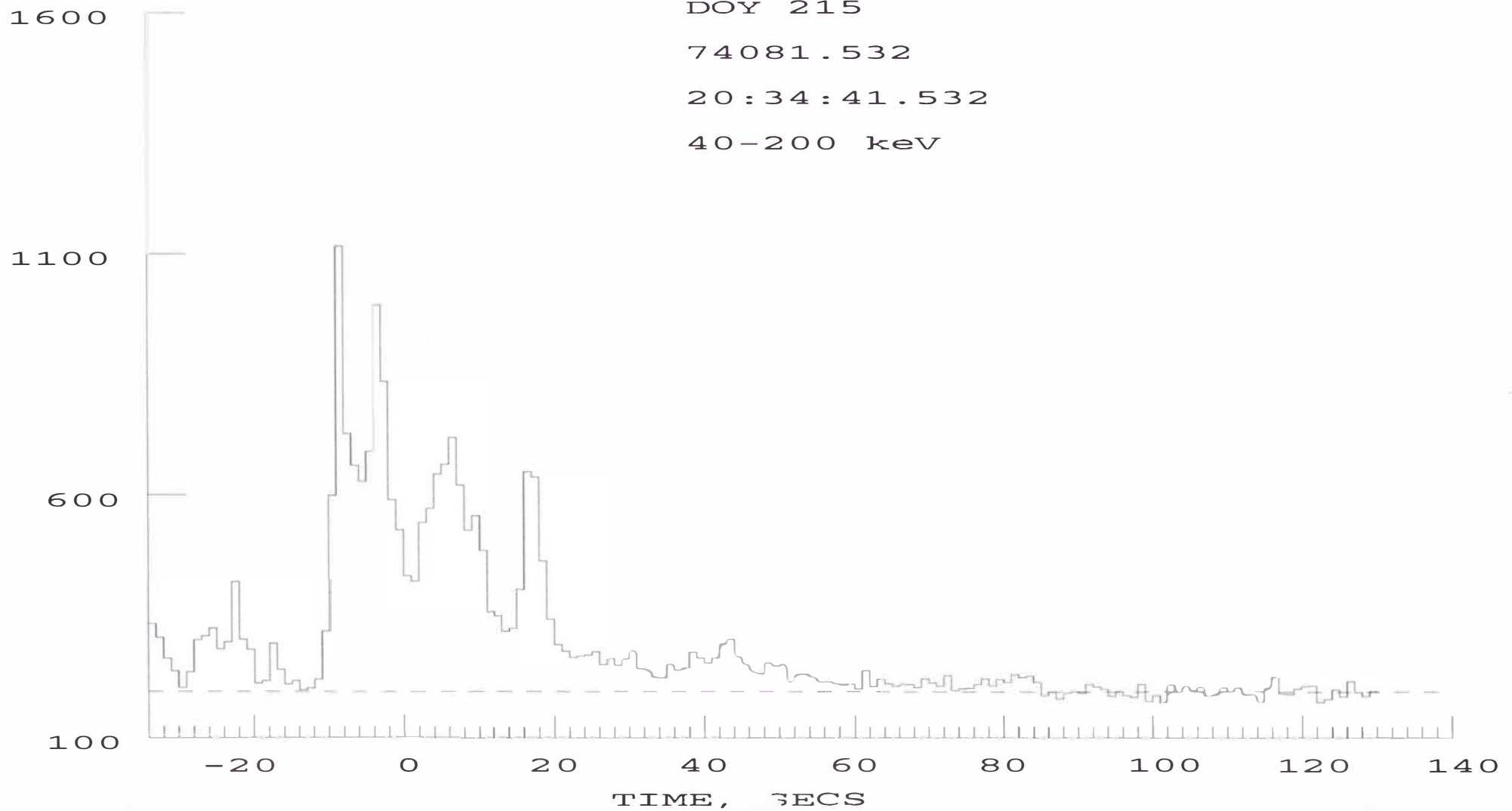
03/08/11

DOY 215

74081.532

20:34:41.532

40-200 keV



28/09/11

MESSENGER

03/08/11

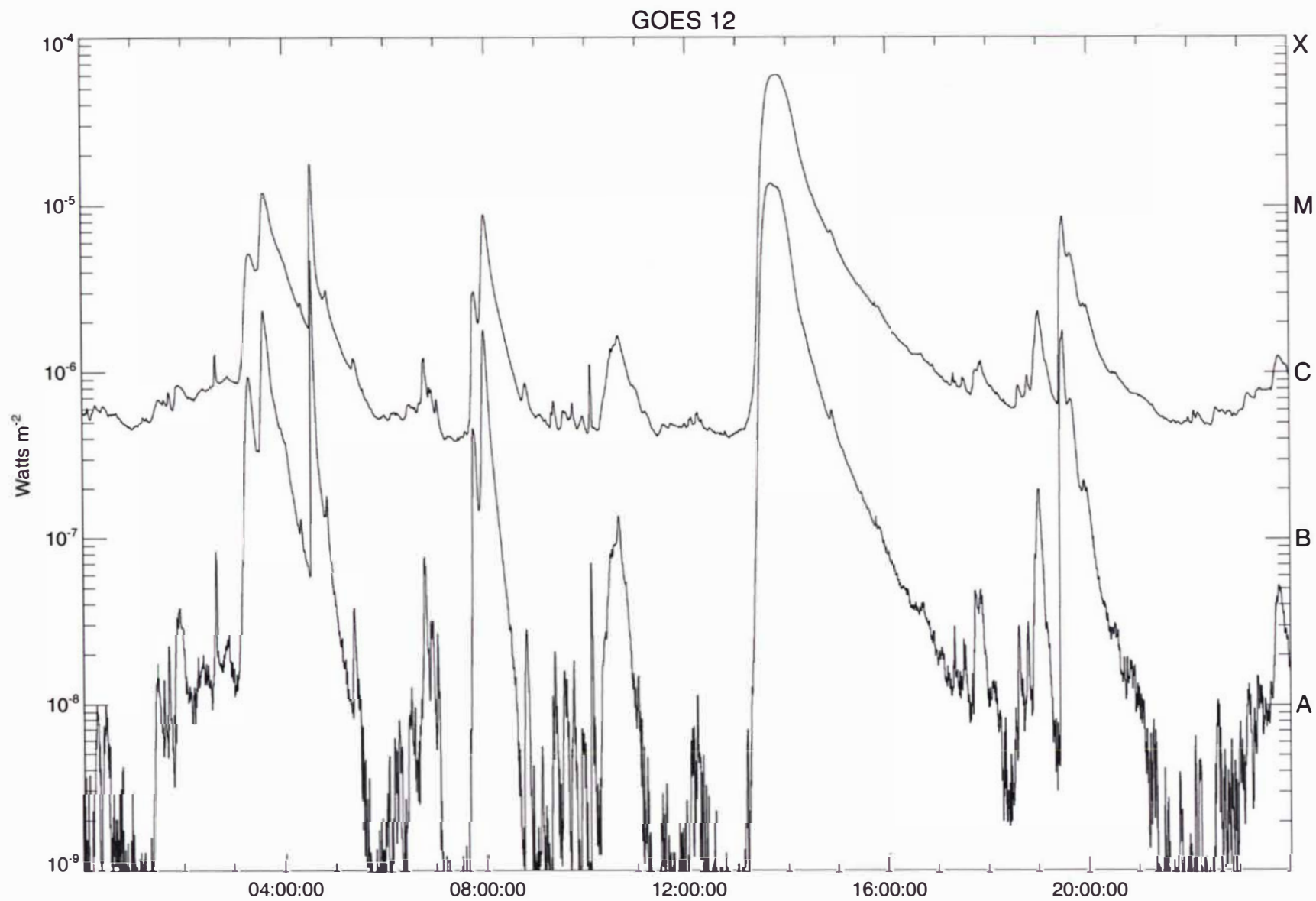
DOY 215

76686.532

21:18:06.532

40-200 keV





Data Start: 11/08/03, 0000:09

Plot created: 11/08/06, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

04/08/11

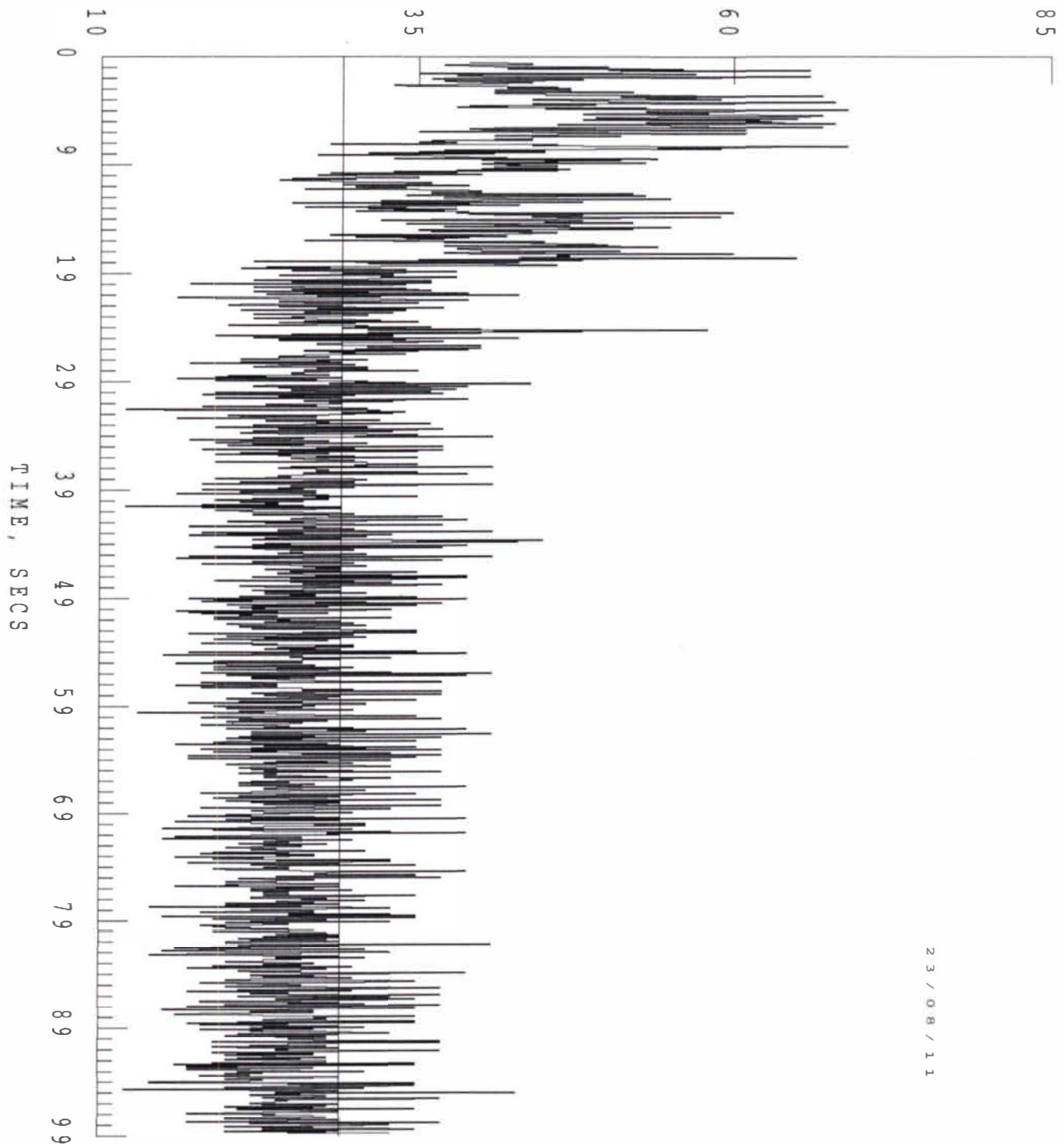
13523.117

A

50 - 200 keV

Solar

COUNTS/0.064 S



23 / 08 / 11

A

KONUS HRES 20110804 13523

TRIGGER TIME: 04/08/11 DOY 216 Julian 2455778.65652 UT = 03.756 03:45:23 (13523.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

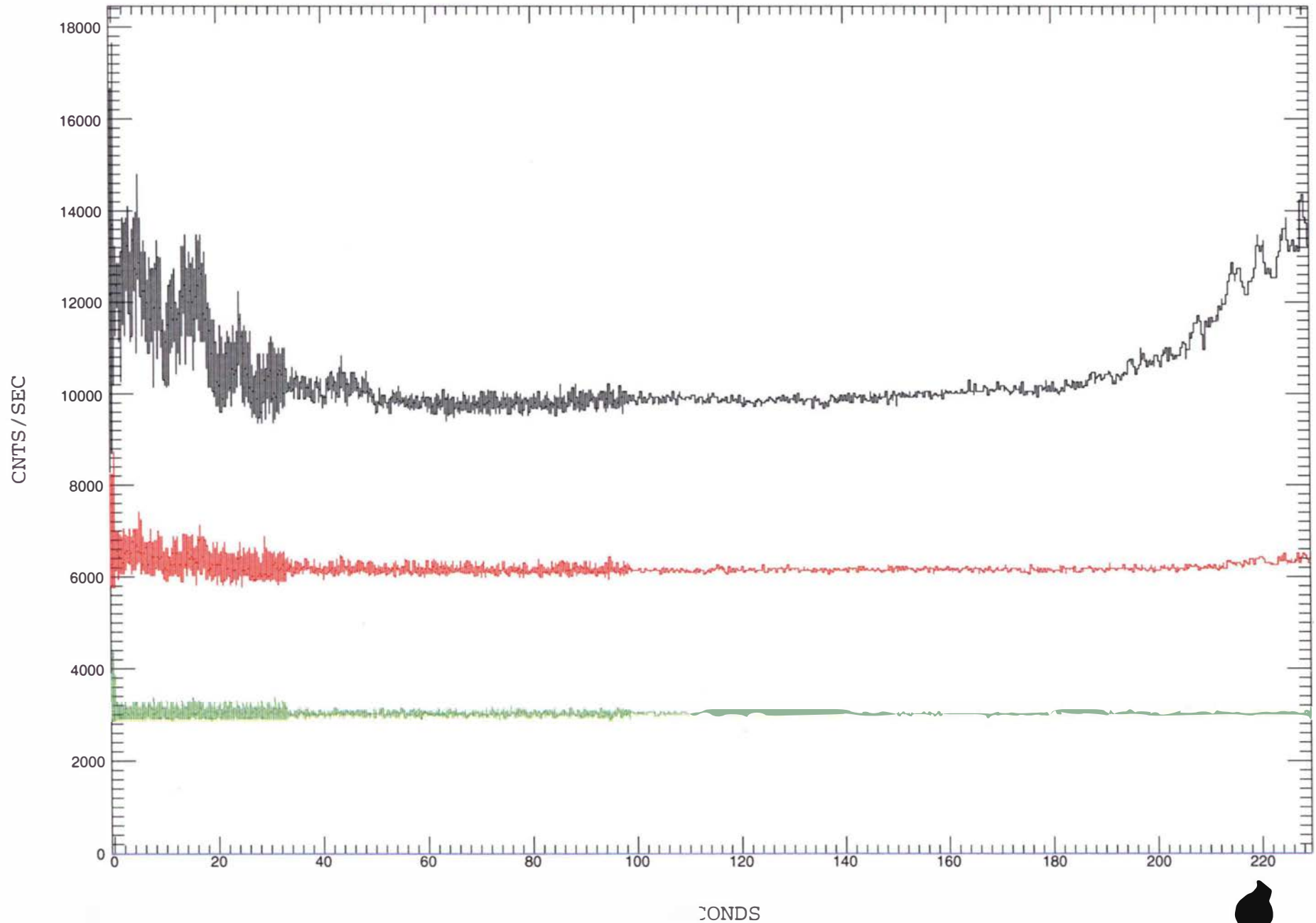
Chan 4 : [> 10 MeV]

Channel 1 + 8700

Channel 2 + 5800

Channel 3 + 2900

Channel 4 + 0



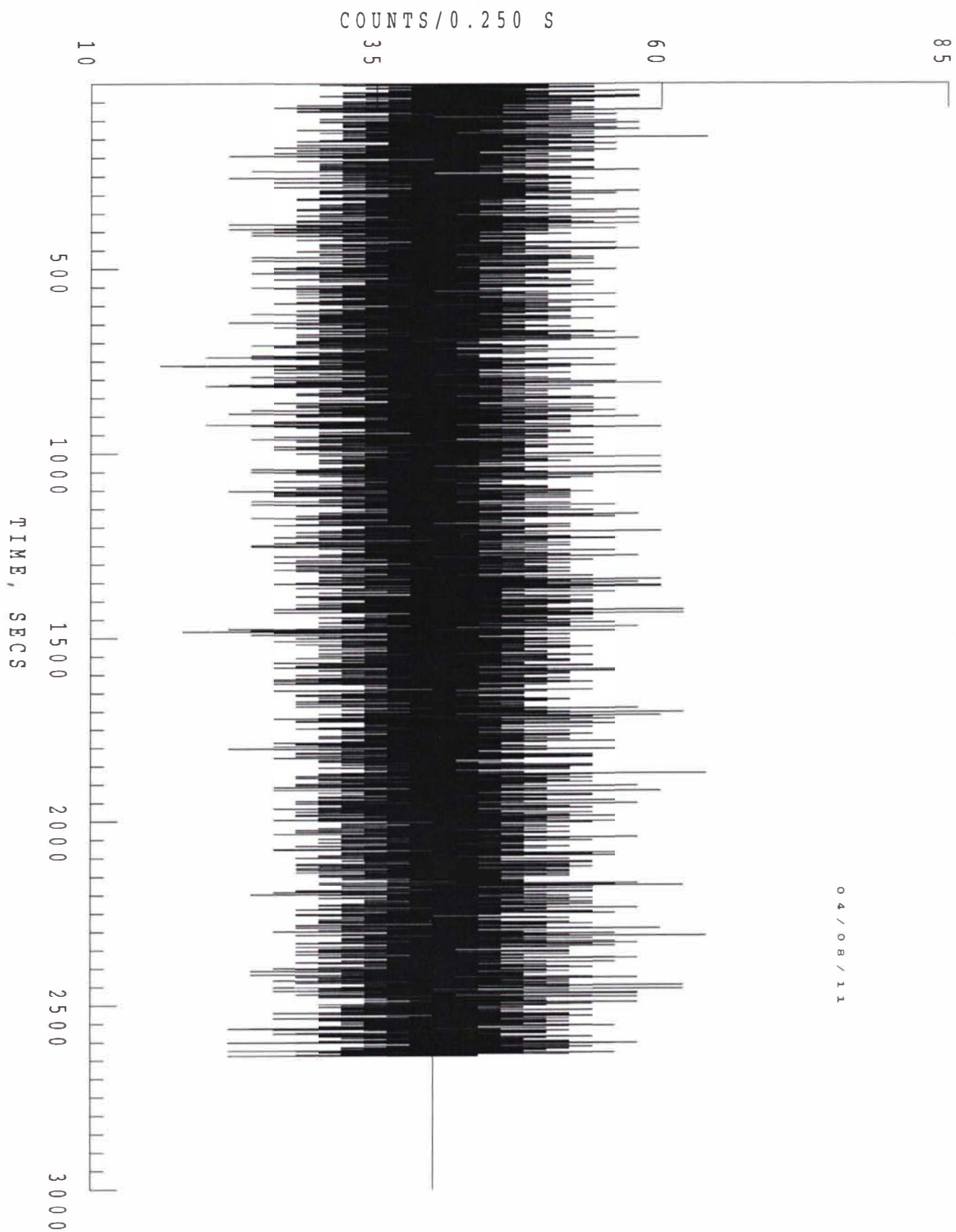
A

MS01

04/08/11

12089.739

50 - 3000 keV



GLAST

04/08/11

13454.928

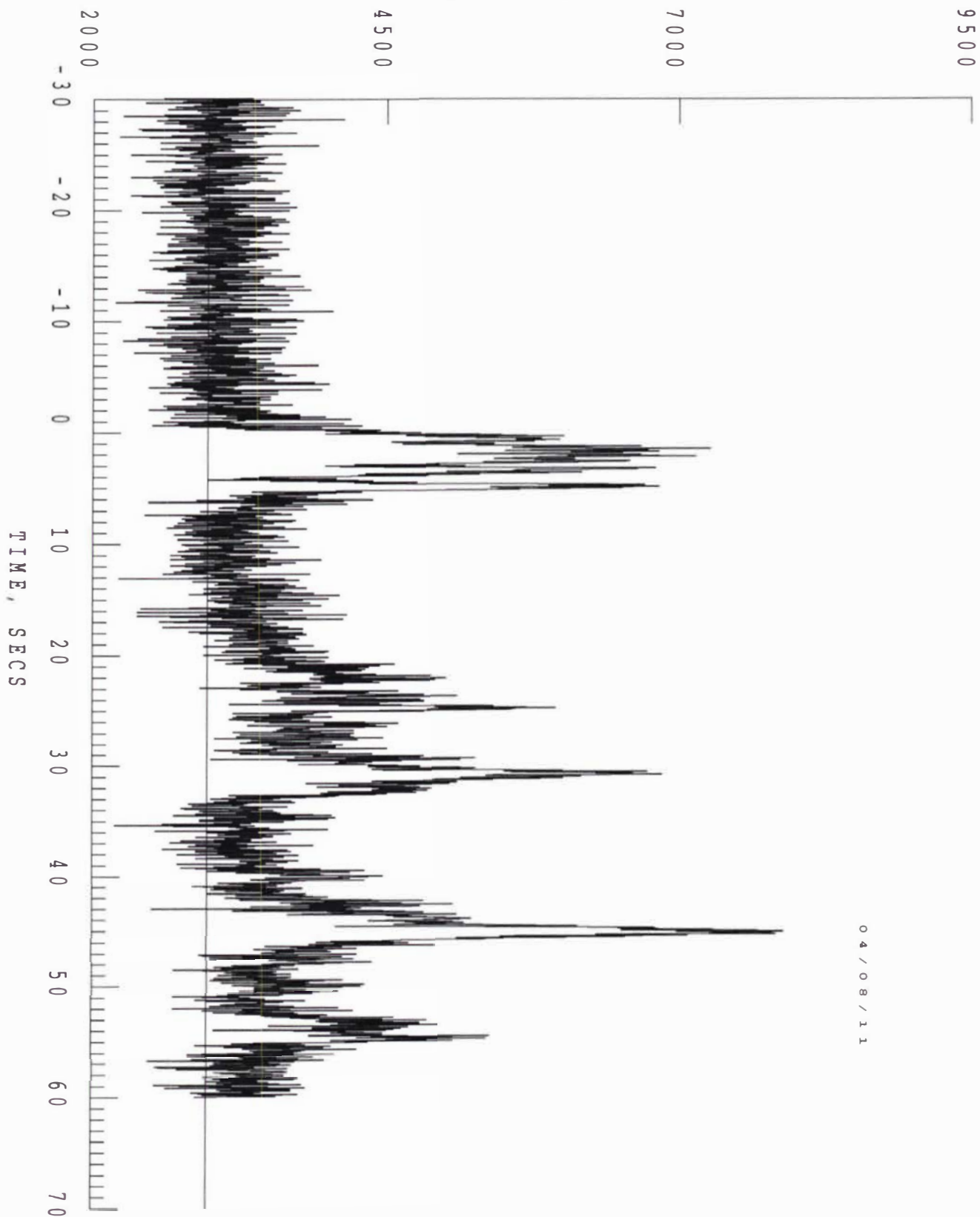
03:44:14

A

26- 293 keV

Solar

COUNTS/0.032 S

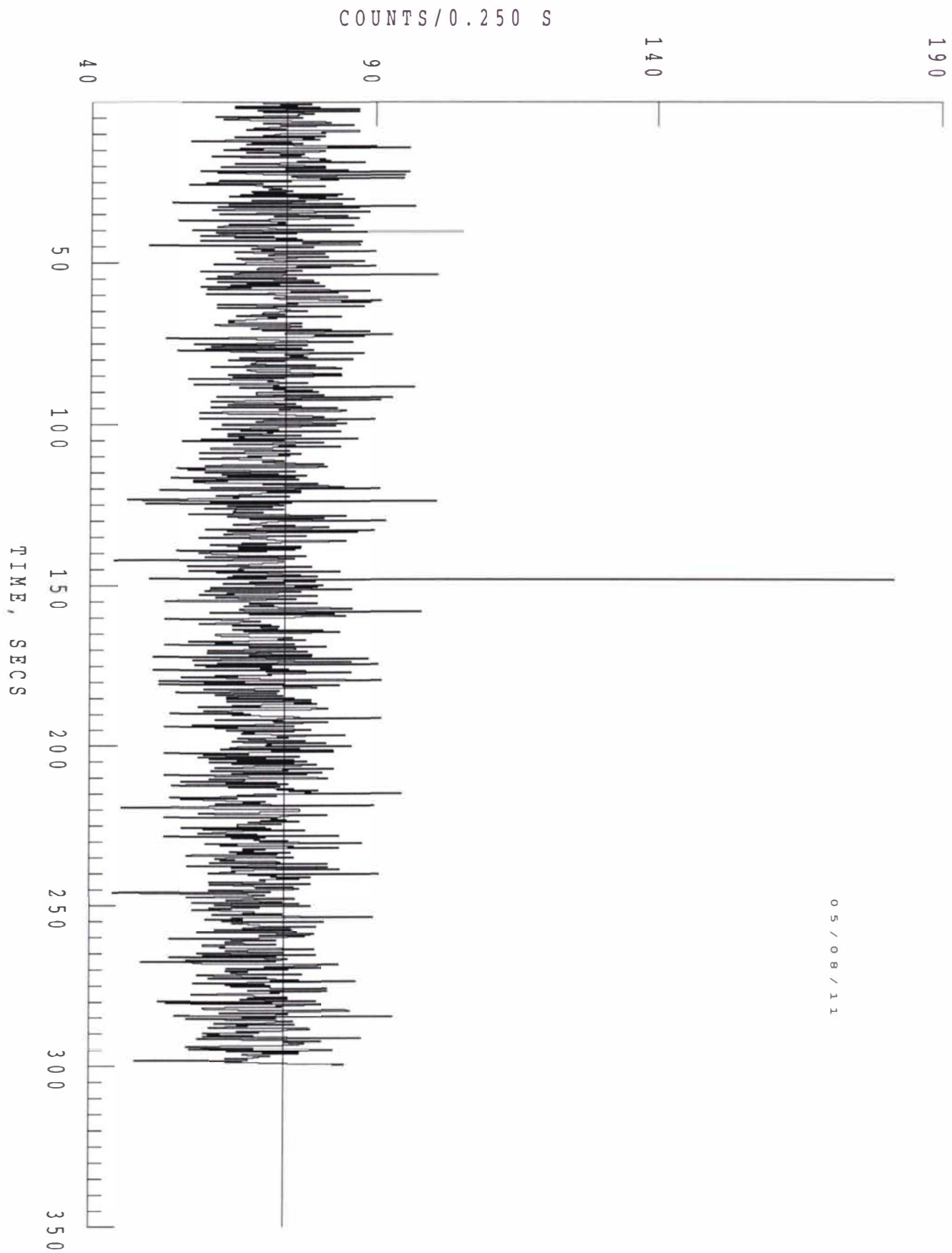


HESSI

04/08/11 13373.000 (KONUS2_20110804_13523)

A

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110804_0344

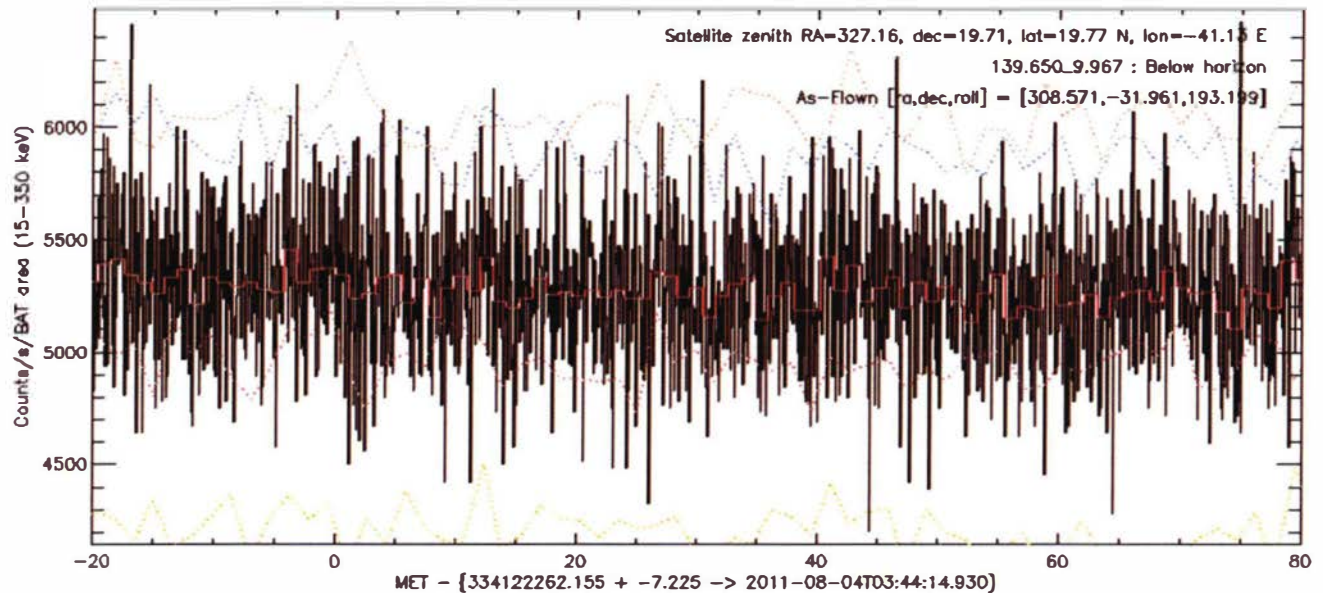
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 09:43:38 -0600 (MDT)

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

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

/tmp/110804_0344.png



13453 (GBM)

```
% /usr/local/bin/swinfo -o 334122262.155 -s 135.433_6.833
Time(MET + UTCF -> UT): 334122262.155 + -7.225 -> 2011-08-04T03:44:14.930
Swift Zenith(RA,dec): 327.16, 19.71
Swift Location(lon,lat,alt): -41.13 E, 19.77 N, 581 km
Obs Sequence Number: 00032048002
Obs Target Name: PSN J20342262-3158236
Obs Date and Times: 2011-08-04 03:31:54 - 03:50:51
Obs Pointing(ra,dec,roll): 308.571, -31.961, 193.20
135.433_6.833_imageloc (boresight_dist, angle): (154, -87)
135.433_6.833_exposure (cm² cos adjusted): 0
135.433_6.833_altitude: -37 (down)

% /usr/local/bin/swinfo -o 334122262.155 -s 137.250_13.567
Time(MET + UTCF -> UT): 334122262.155 + -7.225 -> 2011-08-04T03:44:14.930
Swift Zenith(RA,dec): 327.16, 19.71
Swift Location(lon,lat,alt): -41.13 E, 19.77 N, 581 km
Obs Sequence Number: 00032048002
Obs Target Name: PSN J20342262-3158236
Obs Date and Times: 2011-08-04 03:31:54 - 03:50:51
Obs Pointing(ra,dec,roll): 308.571, -31.961, 193.20
137.250_13.567_imageloc (boresight_dist, angle): (160, -78)
137.250_13.567_exposure (cm² cos adjusted): 0
137.250_13.567_altitude: -32 (down)

% /usr/local/bin/swinfo -o 334122262.155 -s 137.300_13.533
Time(MET + UTCF -> UT): 334122262.155 + -7.225 -> 2011-08-04T03:44:14.930
Swift Zenith(RA,dec): 327.16, 19.71
Swift Location(lon,lat,alt): -41.13 E, 19.77 N, 581 km
Obs Sequence Number: 00032048002
Obs Target Name: PSN J20342262-3158236
Obs Date and Times: 2011-08-04 03:31:54 - 03:50:51
Obs Pointing(ra,dec,roll): 308.571, -31.961, 193.20
137.300_13.533_imageloc (boresight_dist, angle): (160, -78)
137.300_13.533_exposure (cm² cos adjusted): 0
137.300_13.533_altitude: -32 (down)

% /usr/local/bin/swinfo -o 334122262.155 -s 139.650_9.967
Time(MET + UTCF -> UT): 334122262.155 + -7.225 -> 2011-08-04T03:44:14.930
Swift Zenith(RA,dec): 327.16, 19.71
```

Swift Location(lon,lat,alt): -41.13 E, 19.77 N, 581 km
Obs Sequence Number: 00032048002
Obs Target Name: PSN J20342262-3158236
Obs Date and Times: 2011-08-04 03:31:54 - 03:50:51
Obs Pointing(ra,dec,roll): 308.571, -31.961, 193.20
139.650_9.967_imageloc (boresight_dist, angle): (156, -76)
139.650_9.967_exposure (cm² cos adjusted): 0
139.650_9.967_altitude: -36 (down)

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

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

/tmp/110804_0344_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110804_0344.png

/tmp/110804_0344.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

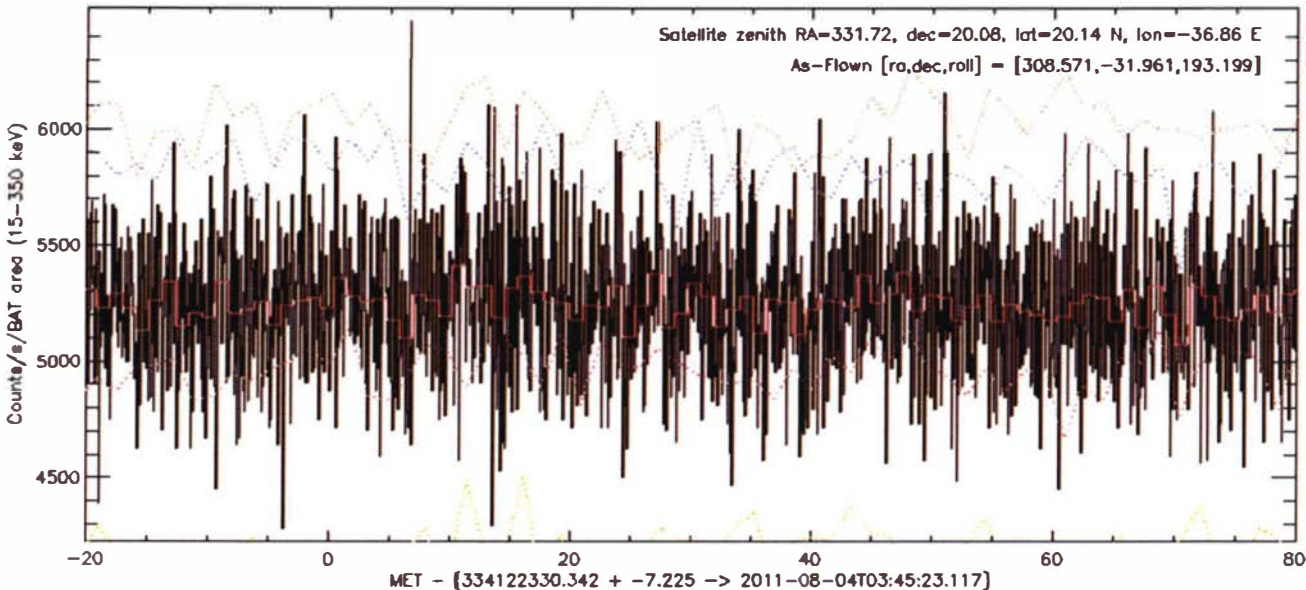
Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--



Subject: [Ipn] BAT lightcurve for trigger at 110804_0345
From: palmer+automatic_lightcurve@lanl.gov
Date: Thu, 4 Aug 2011 11:13:02 -0600 (MDT)
To: gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/110804_0345.png



13523 (Konus)

```
% /usr/local/bin/swinfo -o 334122330.342
Time(MET + UTC -> UT):      334122330.342 + -7.225 -> 2011-08-04T03:45:23.117
Swift Zenith(RA,dec):       331.72, 20.08
Swift Location(lon,lat,alt): -36.86 E, 20.14 N, 581 km
Obs Sequence Number:        00032048002
Obs Target Name:            PSN J20342262-3158236
Obs Date and Times:         2011-08-04 03:31:54 - 03:50:51
Obs Pointing(ra,dec,roll):  308.571, -31.961, 193.20
```

--
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>

/tmp/110804_0345_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110804_0345.png

/tmp/110804_0345.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

SUZAKU

04/08/11

13938.169

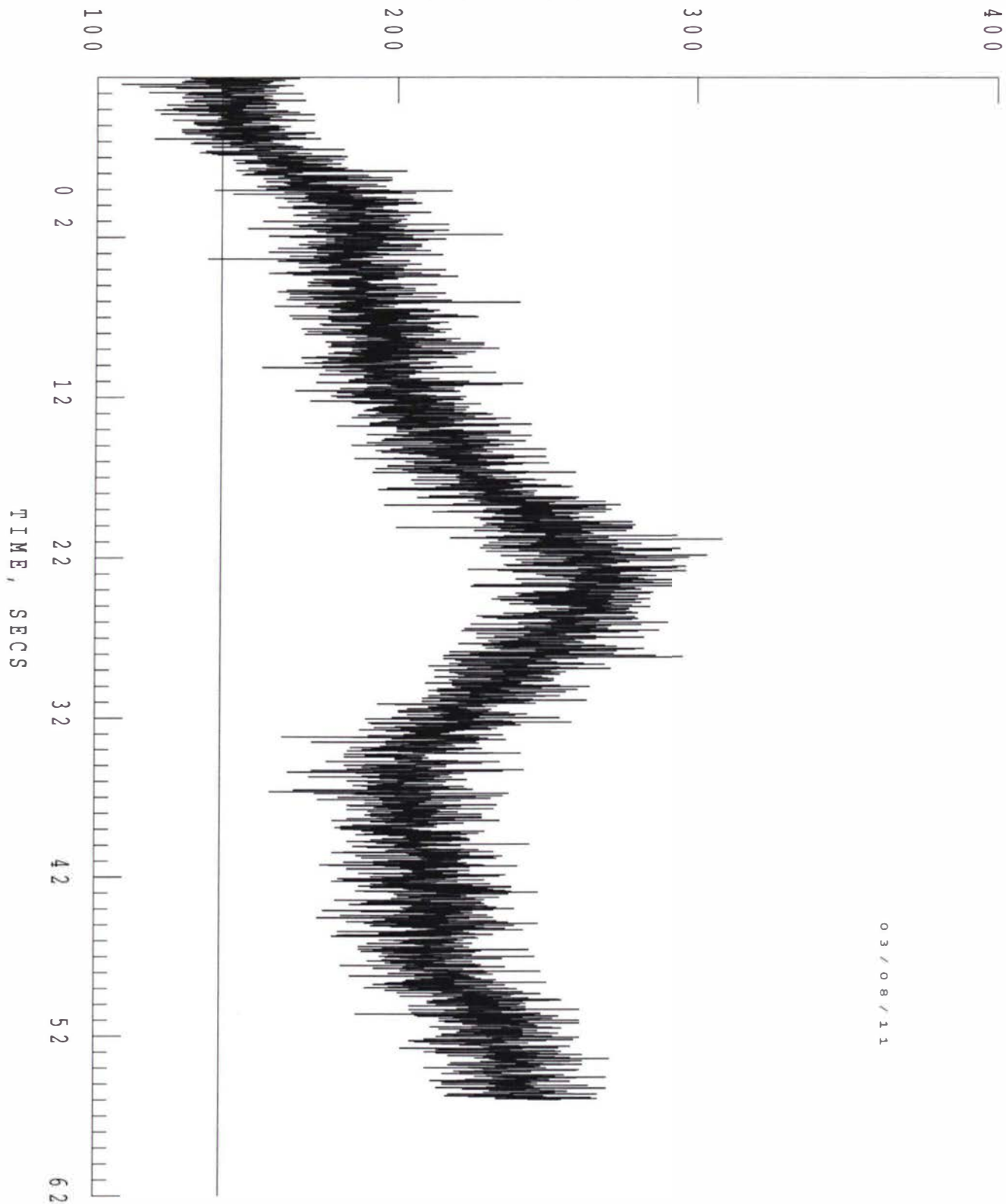
03:52:18

B

50 - 240 keV

Solar

COUNTS/0.016 S



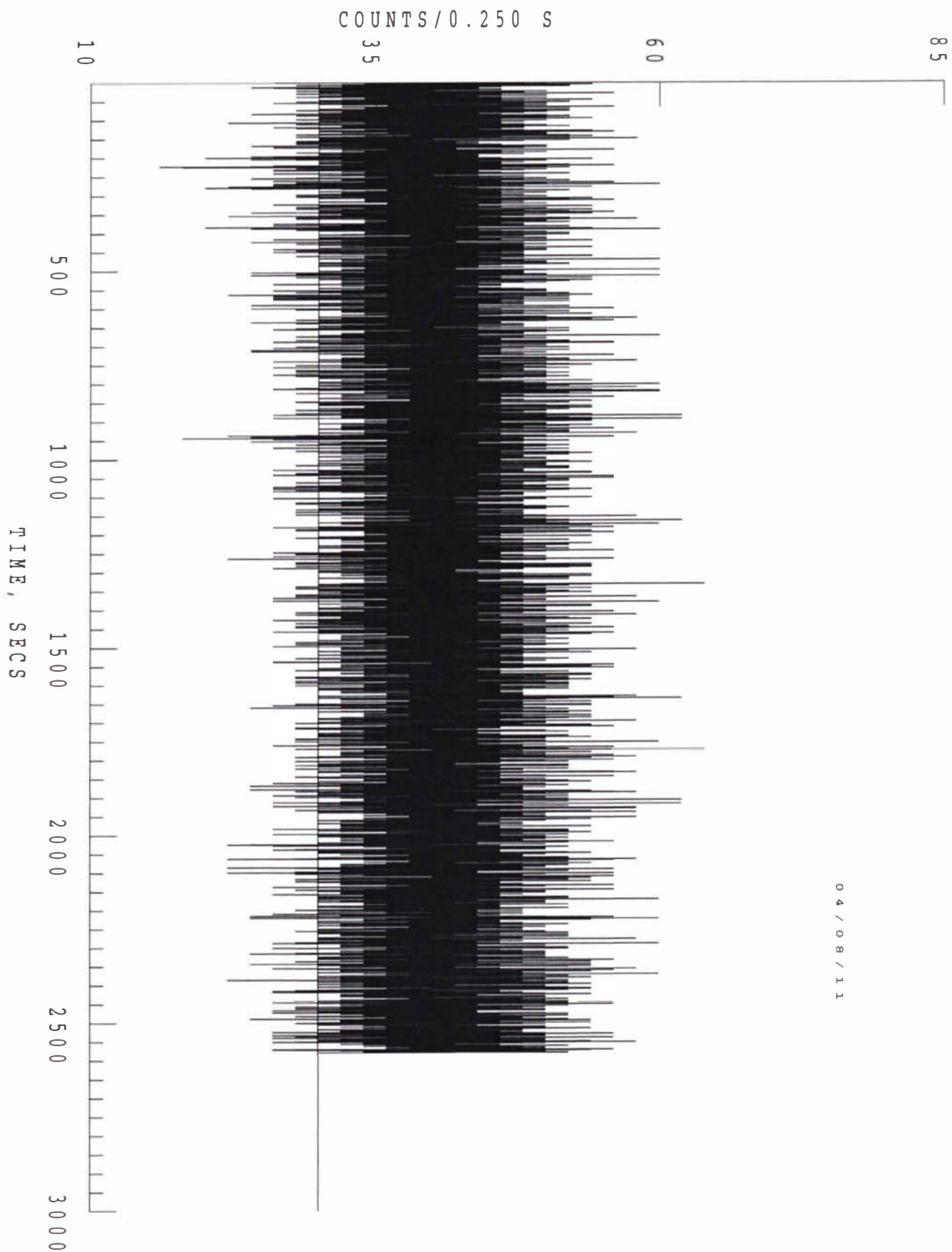
MS01

04/08/11

12629.723

B

50 - 3000 keV



MS01

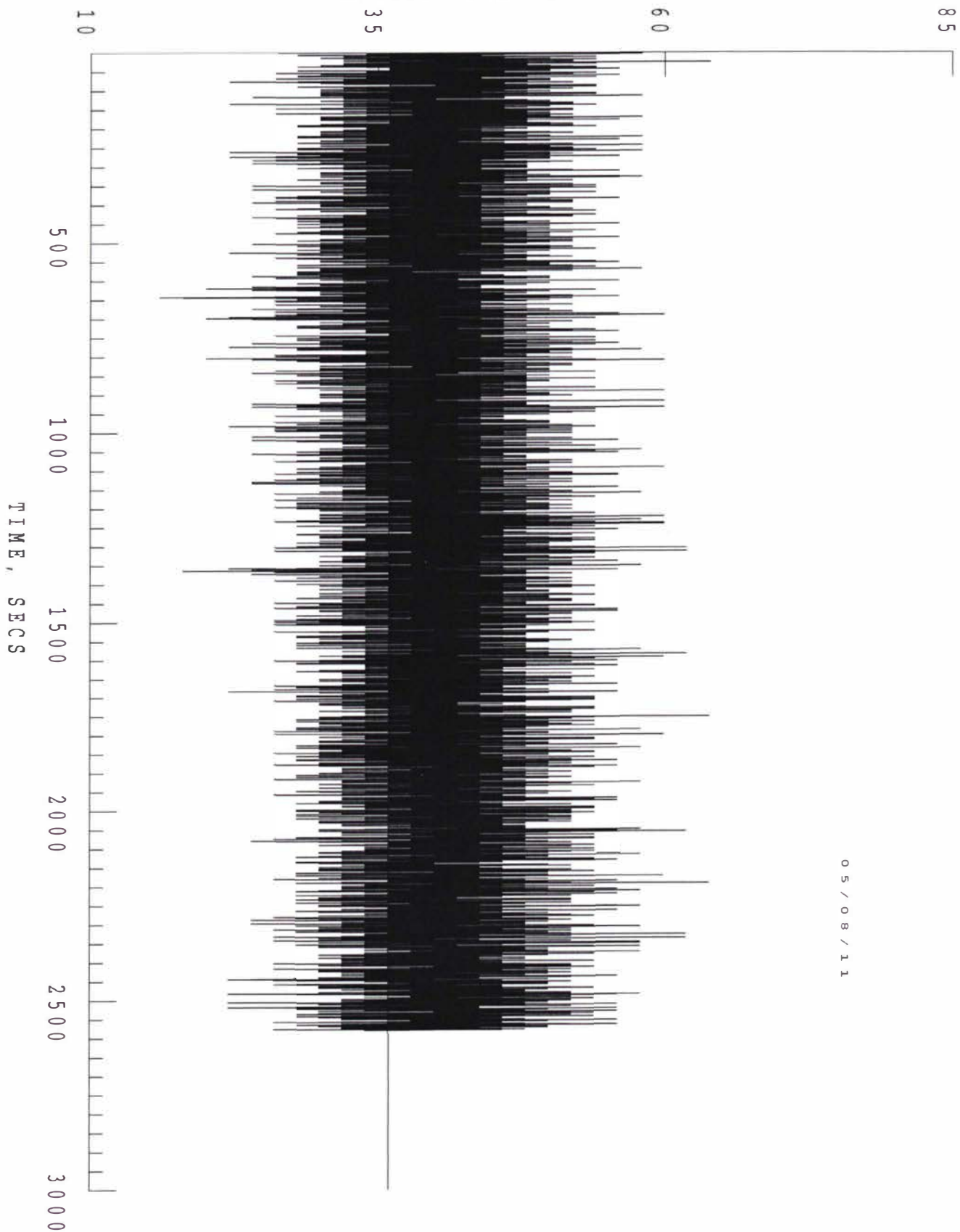
04/08/11

12209.738

B

50 - 3000 keV

COUNTS/0.250 S



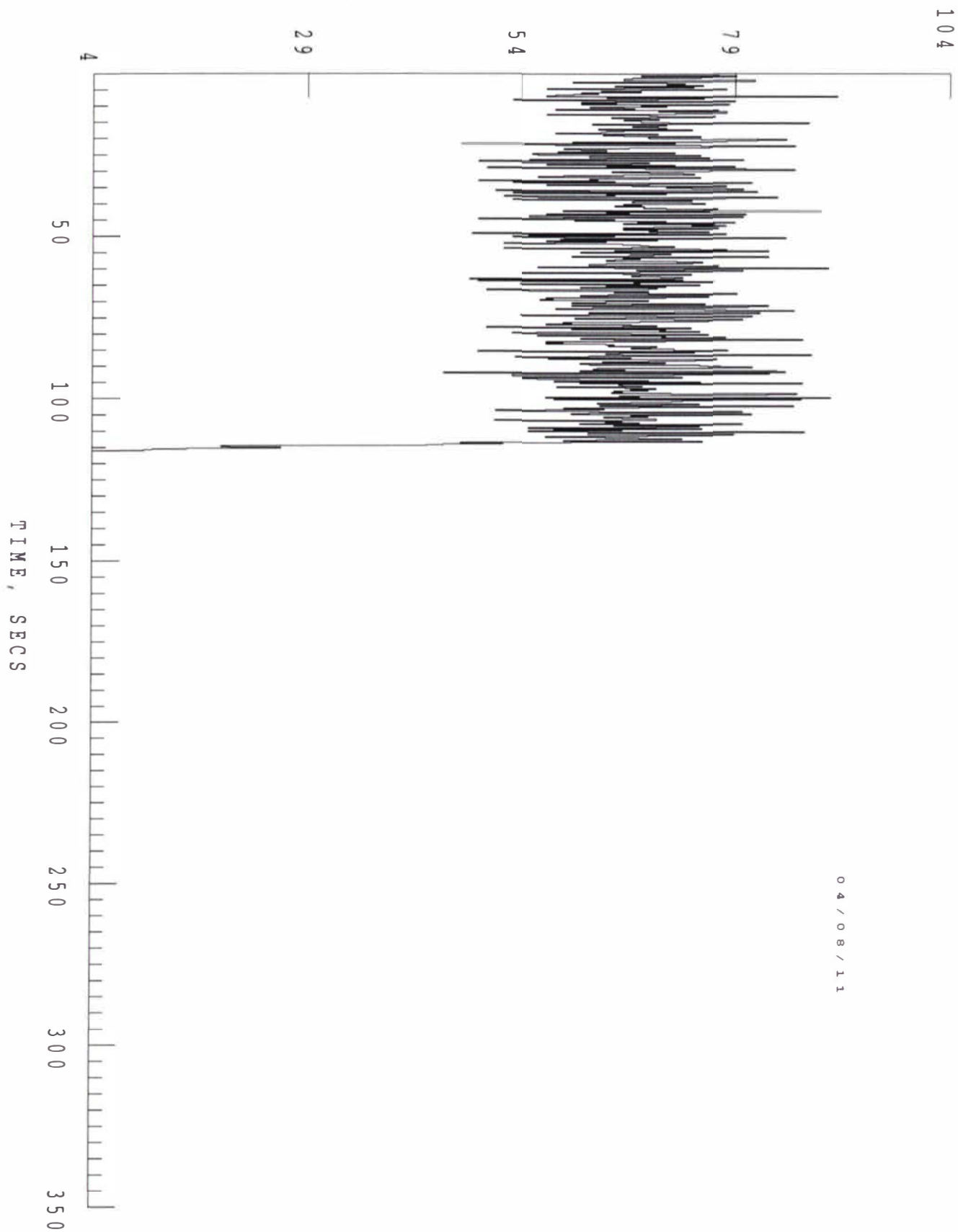
HESSI

04/08/11 13788.000 (SUZAKU_20110804_13938)

B

25- 150 keV

COUNTS/0.250 S



From gcncirc@capella2.gsfc.nasa.gov Thu Aug 4 09:57:27 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: Fermi GBM trigger 334123030 (110804165) is not a GRB
To: khurley@ssl.berkeley.edu
Date: Thu, 4 Aug 2011 12:57:53 -0400 (EDT)
X-Ucb-Scan-Signature: c53231105eb3e76051324dda6db1034c4c4b59ec
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.804'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 12248
SUBJECT: Fermi GBM trigger 334123030 (110804165) is not a GRB
DATE: 11/08/04 16:57:51 GMT
FROM: David Tierney at UCD <david.tierney@ucd.ie>

D. Tierney (UCD), reports on behalf of
the Fermi Gamma-ray Burst Monitor Team:

"The Fermi Gamma-ray Burst Monitor (GBM) trigger 334123030 (110804165)
at 03:57:08.01 UT on 04 August 2011, tentatively classified as a GRB,
is in fact not due to a GRB. This trigger is due to a solar flare."

Subject: [Ipn] BAT lightcurve for trigger at 110804_0357

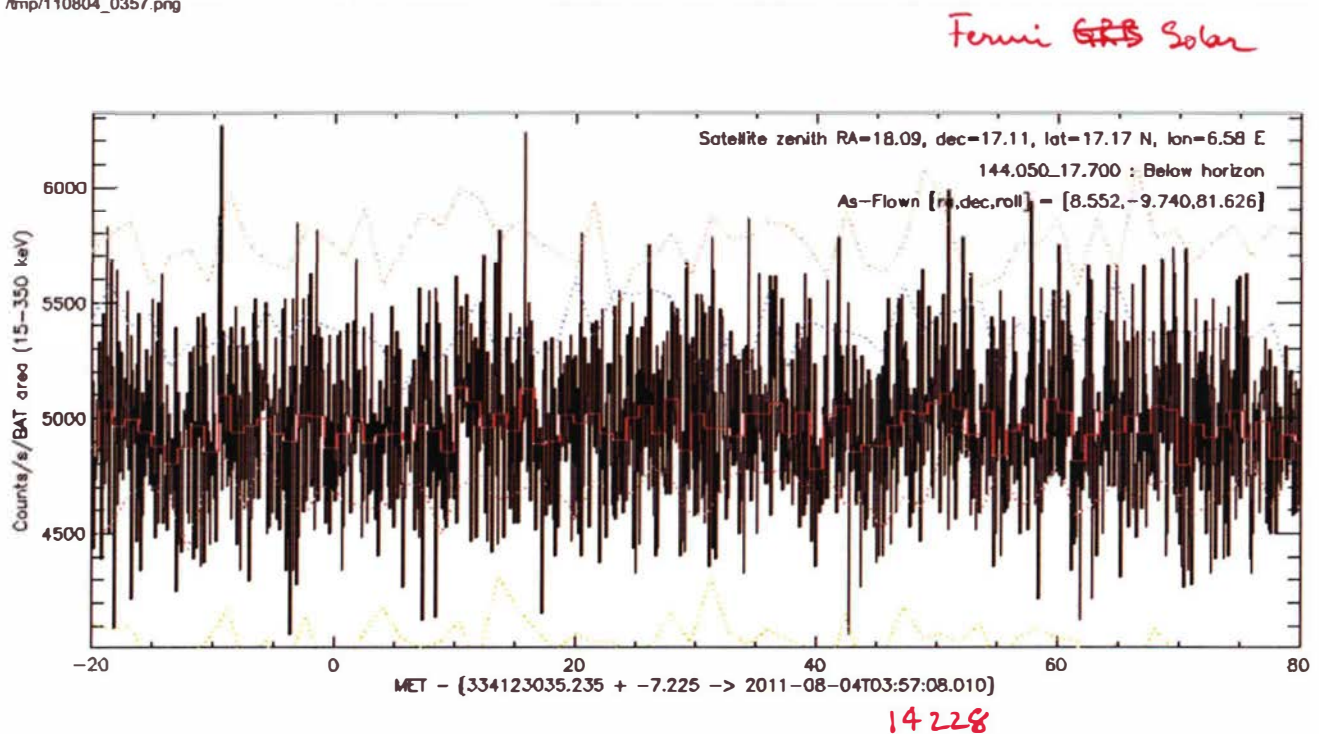
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 02:27:38 -0600 (MDT)

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

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

/tmp/110804_0357.png



```
% /usr/local/bin/swinfo -o 334123035.235 -s 127.770_17.100
Time(MET + UTCF -> UT): 334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec): 18.09, 17.11
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF1liqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
127.770_17.100_imageloc (boresight_dist, angle): (121, -96)
127.770_17.100_exposure (cm2 cos adjusted): 0
127.770_17.100_altitude: 11 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334123035.235 -s 129.250_14.140
Time(MET + UTCF -> UT): 334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec): 18.09, 17.11
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF1liqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
129.250_14.140_imageloc (boresight_dist, angle): (122, -92)
129.250_14.140_exposure (cm2 cos adjusted): 0
129.250_14.140_altitude: 8 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334123035.235 -s 129.960_22.740
Time(MET + UTCF -> UT): 334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec): 18.09, 17.11
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF1liqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
129.960_22.740_imageloc (boresight_dist, angle): (123, -102)
129.960_22.740_exposure (cm2 cos adjusted): 0
129.960_22.740_altitude: 11 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334123035.235 -s 135.270_17.920
Time(MET + UTCF -> UT): 334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec): 18.09, 17.11
```



```
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF11iqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
135.270_17.920_imageloc (boresight_dist, angle): (128, -97)
135.270_17.920_exposure (cm^2 cos adjusted): 0
135.270_17.920_altitude: 5 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334123035.235 -s 138.670_17.310
Time(MET + UTCF -> UT): 334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec): 18.09, 17.11
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF11iqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
138.670_17.310_imageloc (boresight_dist, angle): (131, -96)
138.670_17.310_exposure (cm^2 cos adjusted): 0
138.670_17.310_altitude: 2 (attenuated by atmosphere at 76 km)

% /usr/local/bin/swinfo -o 334123035.235 -s 143.667_17.867
Time(MET + UTCF -> UT): 334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec): 18.09, 17.11
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF11iqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
143.667_17.867_imageloc (boresight_dist, angle): (136, -97)
143.667_17.867_exposure (cm^2 cos adjusted): 0
143.667_17.867_altitude: -2 (down)

% /usr/local/bin/swinfo -o 334123035.235 -s 144.050_17.700
Time(MET + UTCF -> UT): 334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec): 18.09, 17.11
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF11iqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
144.050_17.700_imageloc (boresight_dist, angle): (136, -97)
144.050_17.700_exposure (cm^2 cos adjusted): 0
144.050_17.700_altitude: -3 (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>

/tmp/110804_0357_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110804_0357.png

/tmp/110804_0357.png

Content-Type: image/png
Content-Encoding: base64

Part 1.4

Part 1.4

Content-Type: text/plain
Content-Encoding: 7bit

Part 1.5

Part 1.5

Content-Type: text/plain
Content-Encoding: 7bit

GLAST

04/08/11

20363.644

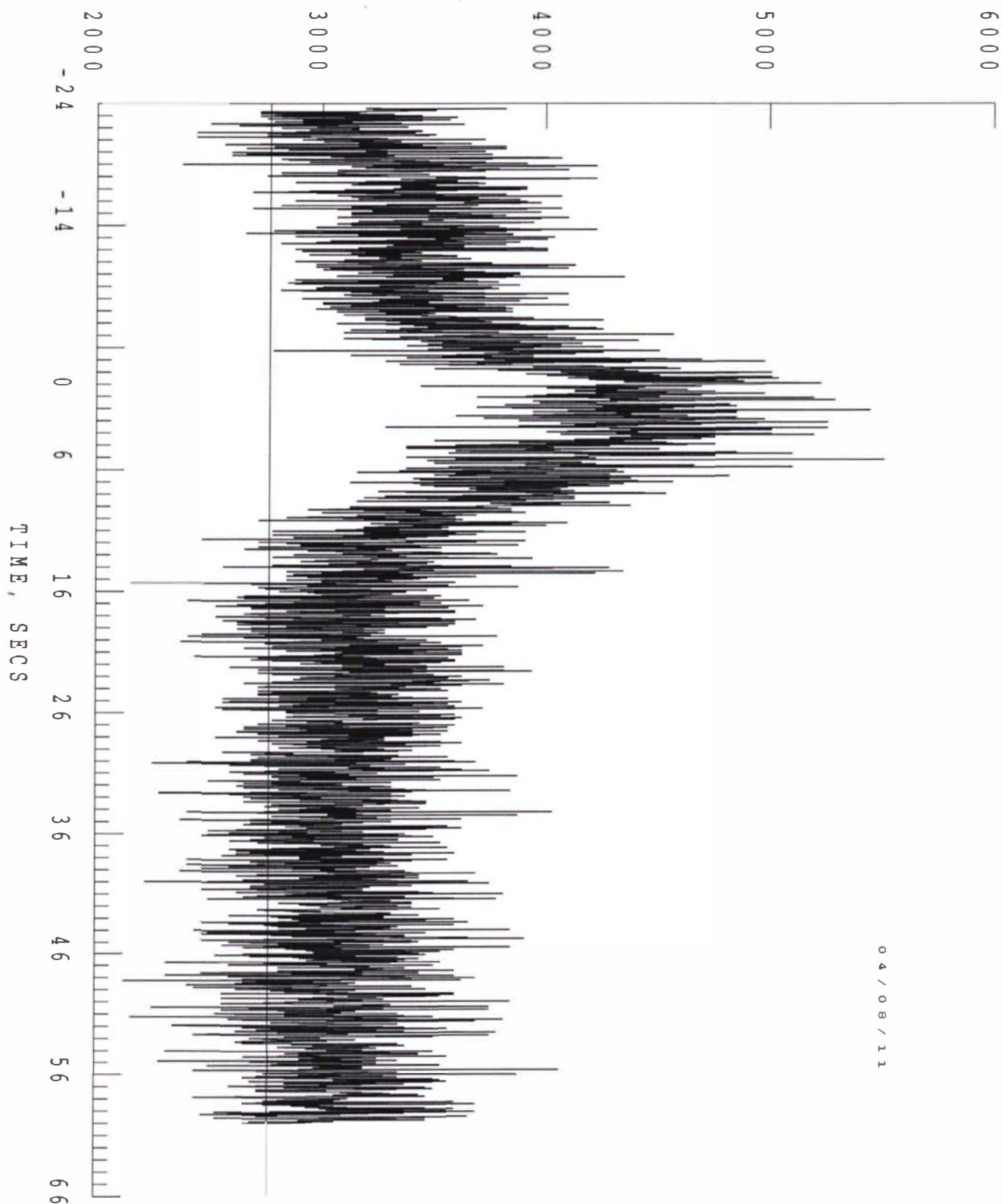
05:39:23

C

26 - 293 keV

Solar

COUNTS/0.032 S

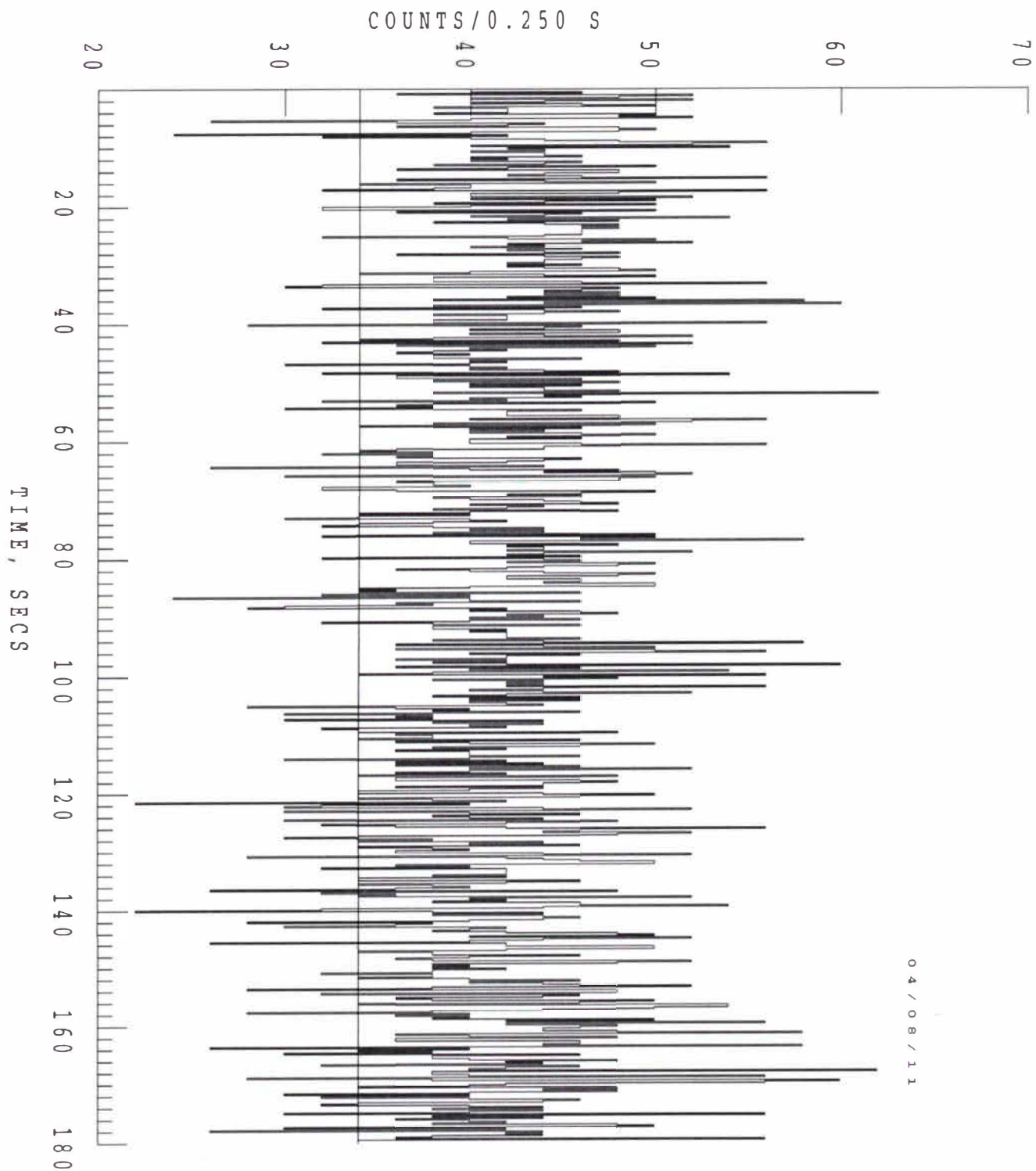


MS01

04/08/11

19049.619

50 - 3000 keV



C

From williams@gammaburst.ssl.berkeley.edu Tue Aug 9 23:03:05 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 9 Aug 2011 23:02:18 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
o: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GLAST_20110804_20363
X-Ucb-Scan-Signature: 76f3d68efdf88d01ce29d33ae5aaa66cc0f9b7e7
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 9-Aug-2011 23:02:32.00
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

C

Subject: [Ipn] BAT lightcurve for trigger at 110804_0539

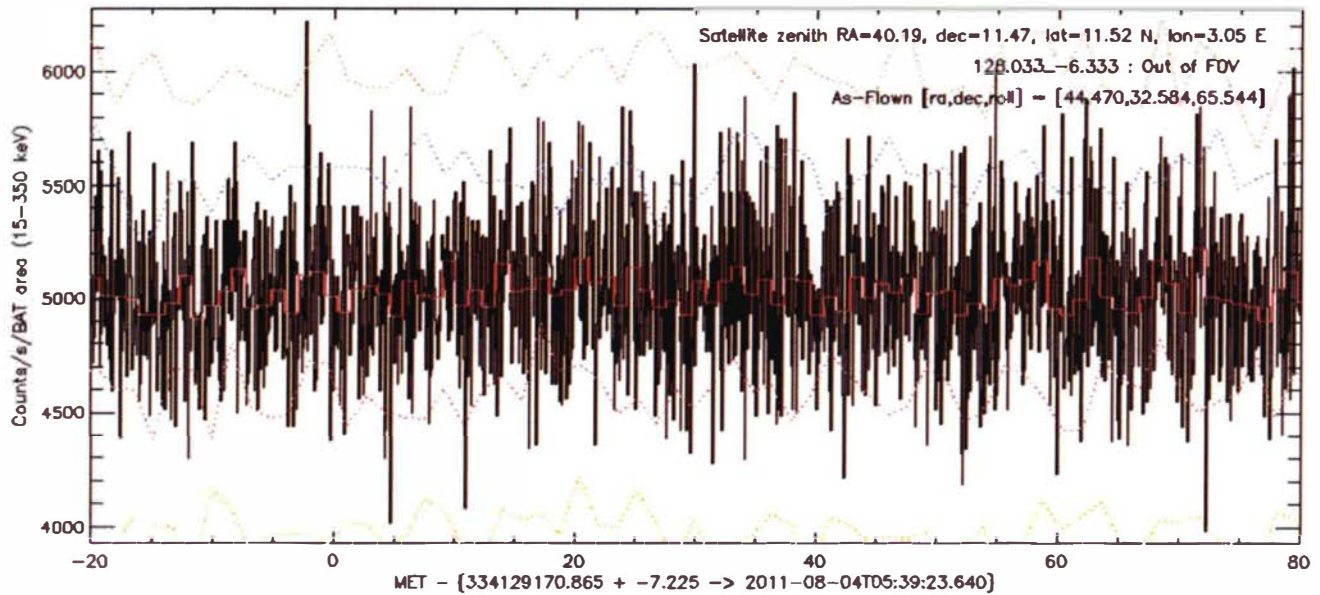
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 08:47:09 -0600 (MDT)

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

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

/tmp/110804_0539.png



```
% /usr/local/bin/swinfo -o 334129170.865 -s 128.033 -6.333
Time(MET + UTC -> UT):      334129170.865 + -7.225 -> 2011-08-04T05:39:23.640
Swift Zenith(RA,dec):       40.19, 11.47
Swift Location(lon,lat,alt): 3.05 E, 11.52 N, 592 km
Obs Sequence Number:        00020175001
Obs Target Name:             N/A
Obs Date and Times:          2011-08-04 05:16:02 - 06:01:02
Obs Pointing(ra,dec,roll):   44.470, 32.584, 65.54
128.033_-6.333_imageloc(boresight_dist, angle): (88, -57)
128.033_-6.333_exposure(cm^2 cos adjusted): 0
128.033_-6.333_altitude: 25 (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>

/tmp/110804_0539.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110804_0539_bat64ms_ipn

/tmp/110804_0539_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

KONUS2

04/08/11

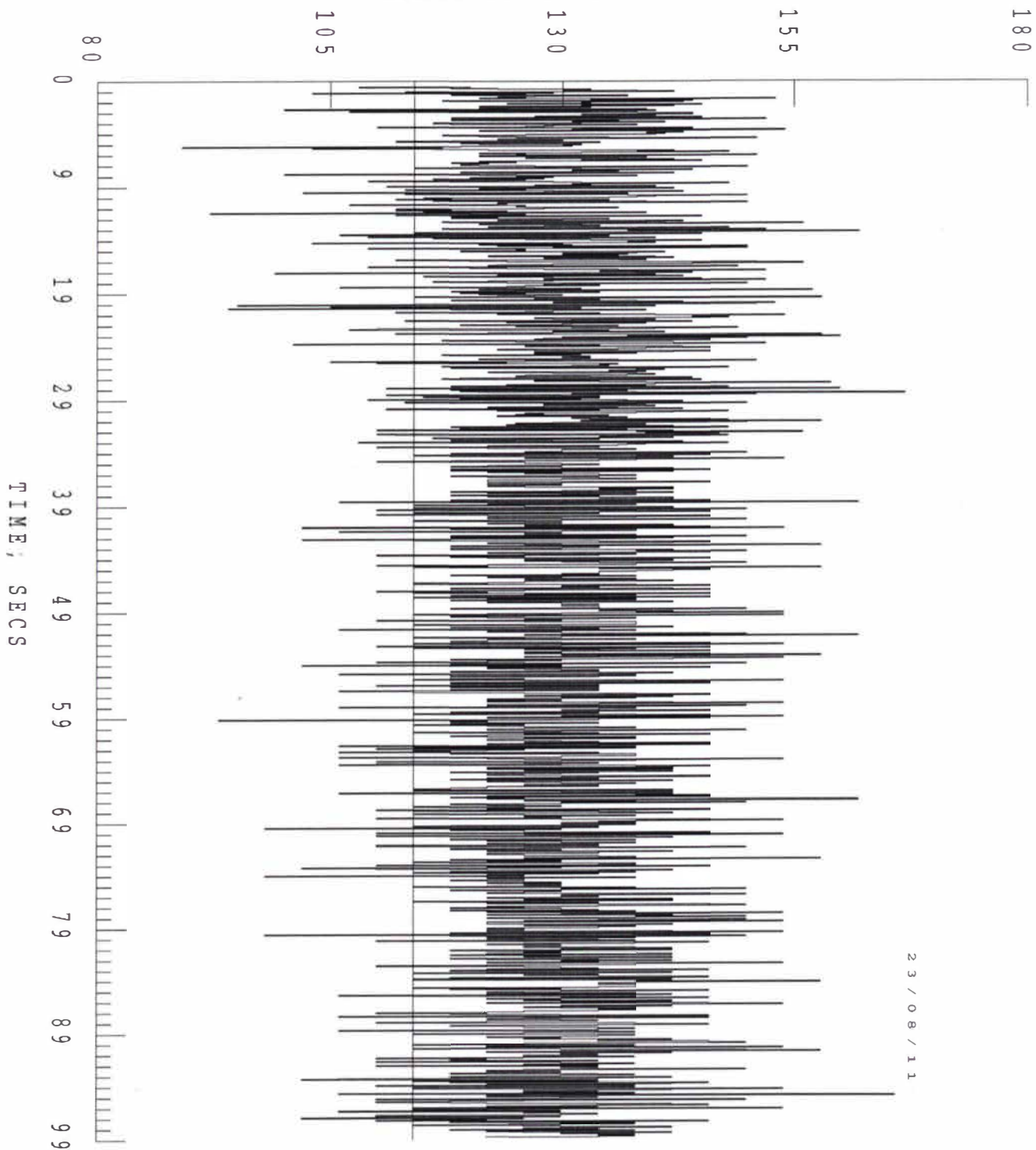
26394.543

D

50 - 200 keV

Particles

COUNTS/0.064 S



KONUS HRES 20110804 26394

TRIGGER TIME: 04/08/11 DOY 216 Julian 2455778.80549 UT = 07.332 07:19:54 (26394.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

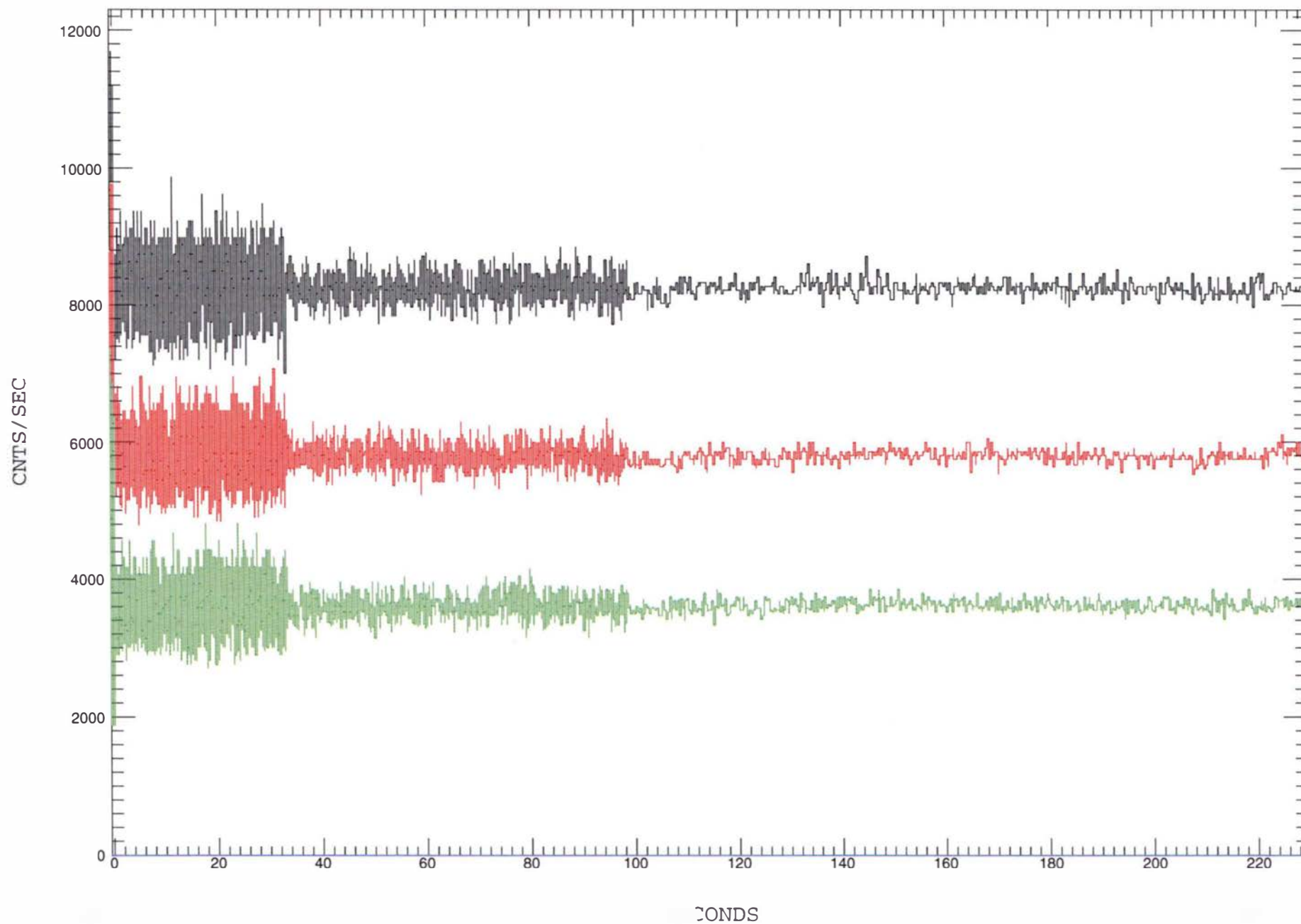
Chan 4 : [> 10 MeV]

Channel 1 + 5700

Channel 2 + 3800

Channel 3 + 1900

Channel 4 + 0



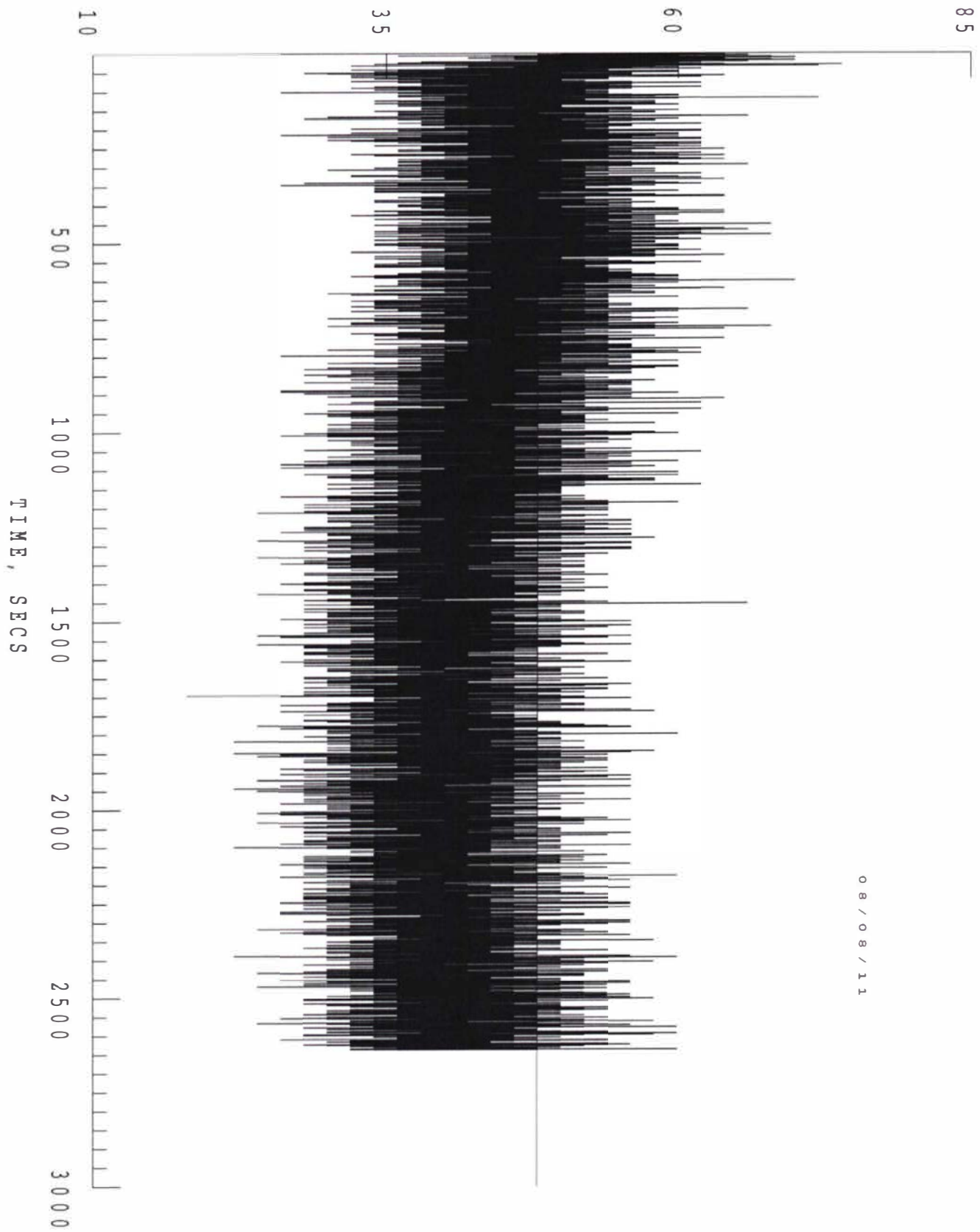
MS01

04/08/11

25049.523

50- 3000 keV

COUNTS/0.250 S



D

From williams@gammaburst.ssl.berkeley.edu Tue Aug 9 23:05:01 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 9 Aug 2011 23:04:14 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20110804_26394
X-Ucb-Scan-Signature: 4b575a76698c459890147f6b5b9e12e7ebae9ac0
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 9-Aug-2011 23:04:25.00
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 110804_0719

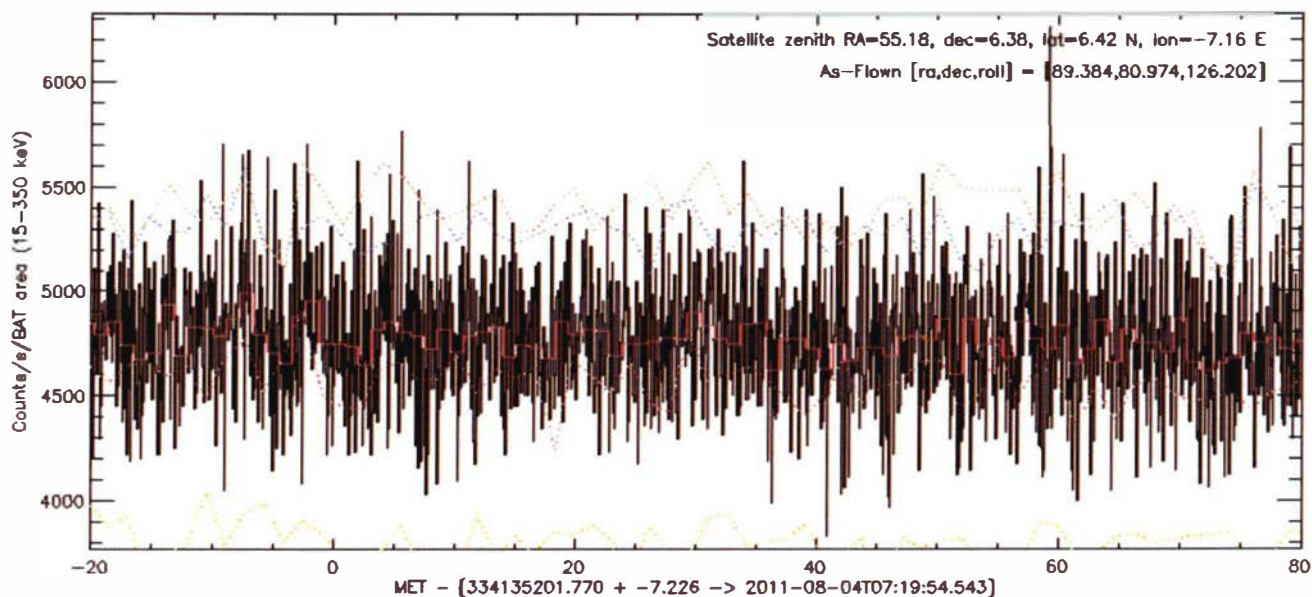
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 11:14:36 -0600 (MDT)

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

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

/tmp/110804_0719.png



26394

```
% /usr/local/bin/swinfo -o 334135201.769
Time(MET + UTC -> UT):      334135201.770 + -7.226 -> 2011-08-04T07:19:54.543
Swift Zenith(RA,dec):       55.18, 6.38
Swift Location(lon,lat,alt): -7.16 E, 6.42 N, 594 km
Obs Sequence Number:        00458521005
Obs Target Name:             GRB 110801A
Obs Date and Times:          2011-08-04 07:17:53 - 07:24:53
Obs Pointing(ra,dec,roll):   89.384, 80.974, 126.20
```

--
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>

/tmp/110804_0719.png

Content-Type: image/png
Content-Encoding: base64

/tmp/110804_0719_bat64ms_ipn

/tmp/110804_0719_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

GLAST

04/08/11

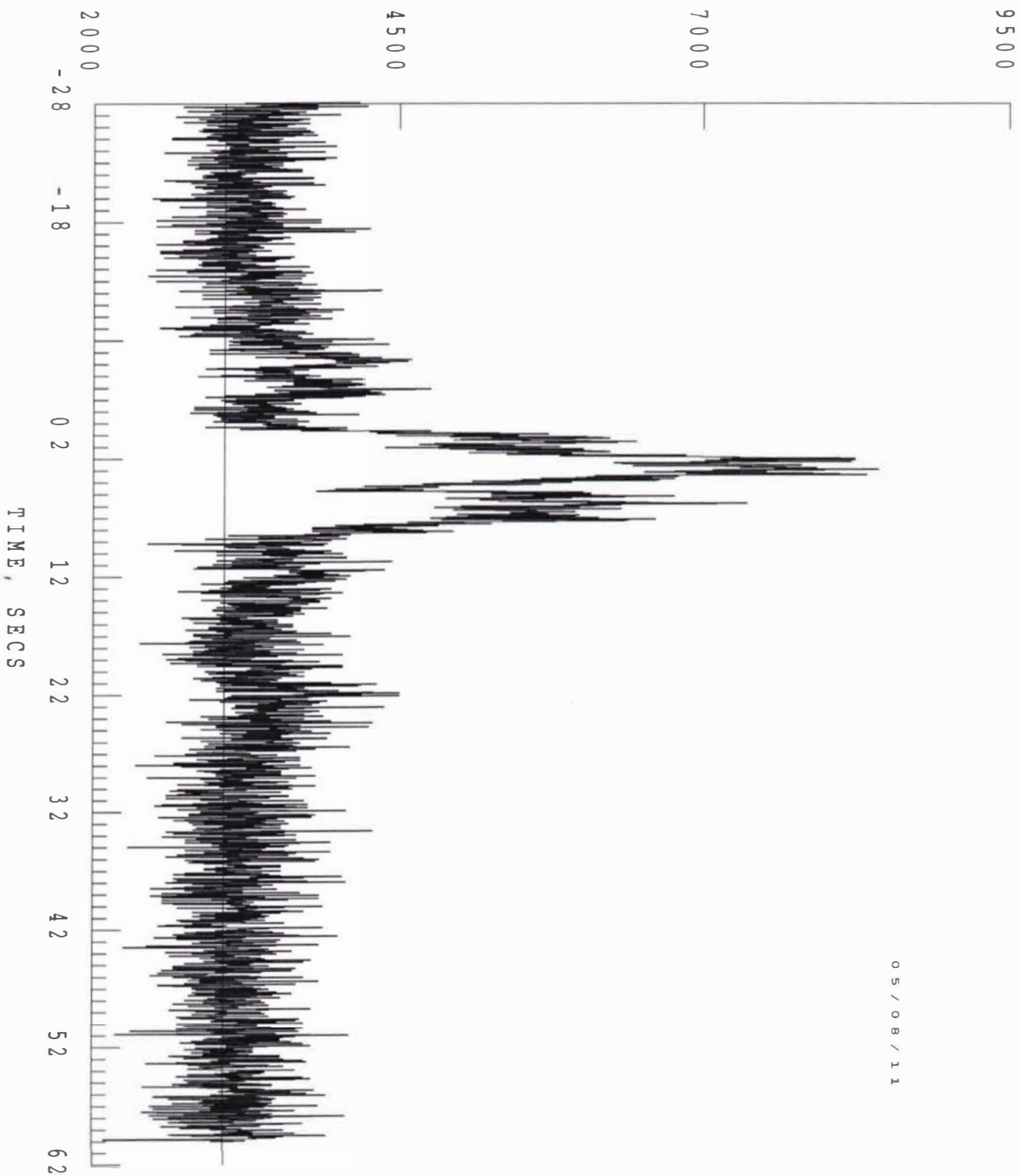
82164.205

11

26 - 293 keV

Solar

COUNTS/0.032 S



MS01

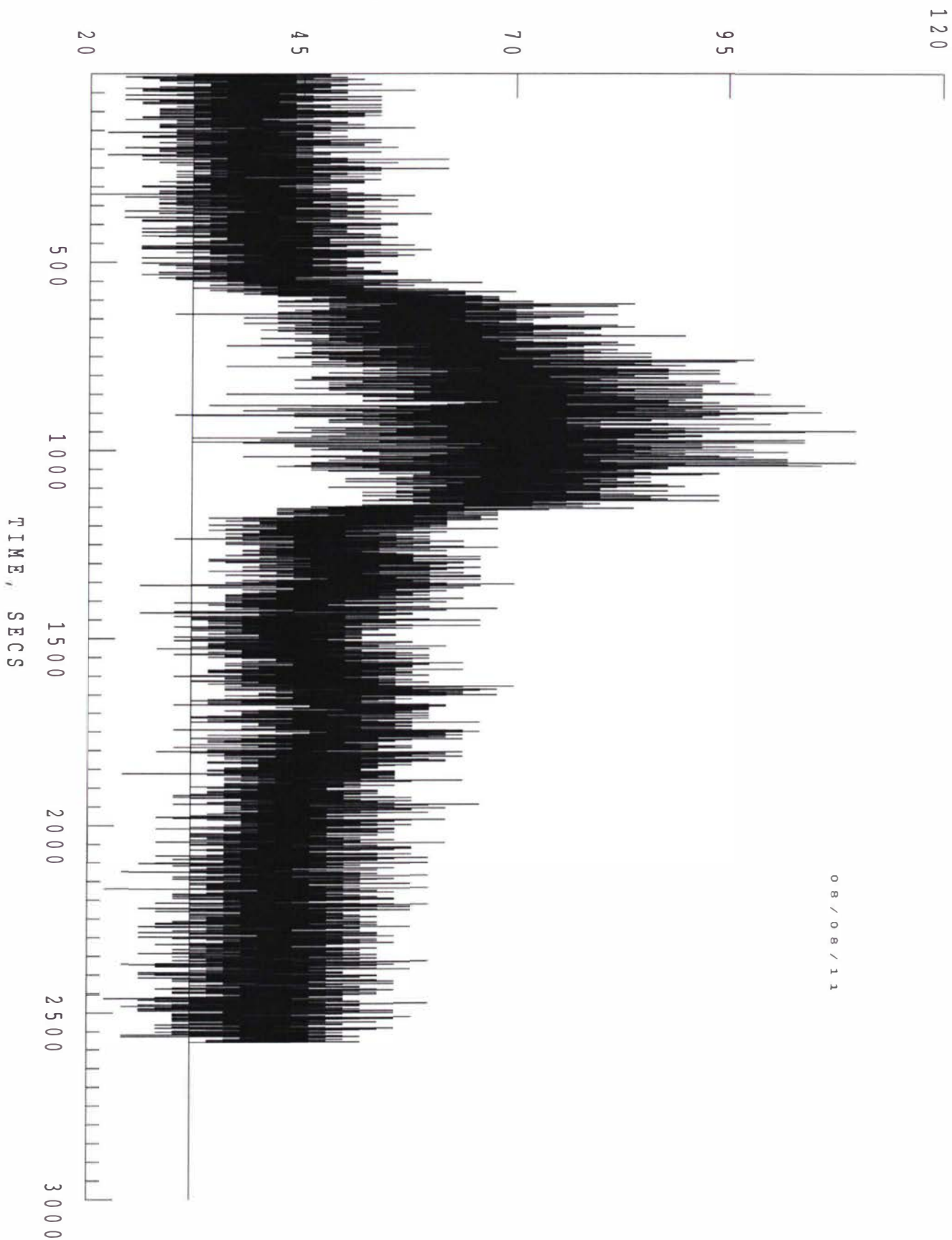
04/08/11

80848.582

W

50 - 3000 keV

COUNTS/0.250 S

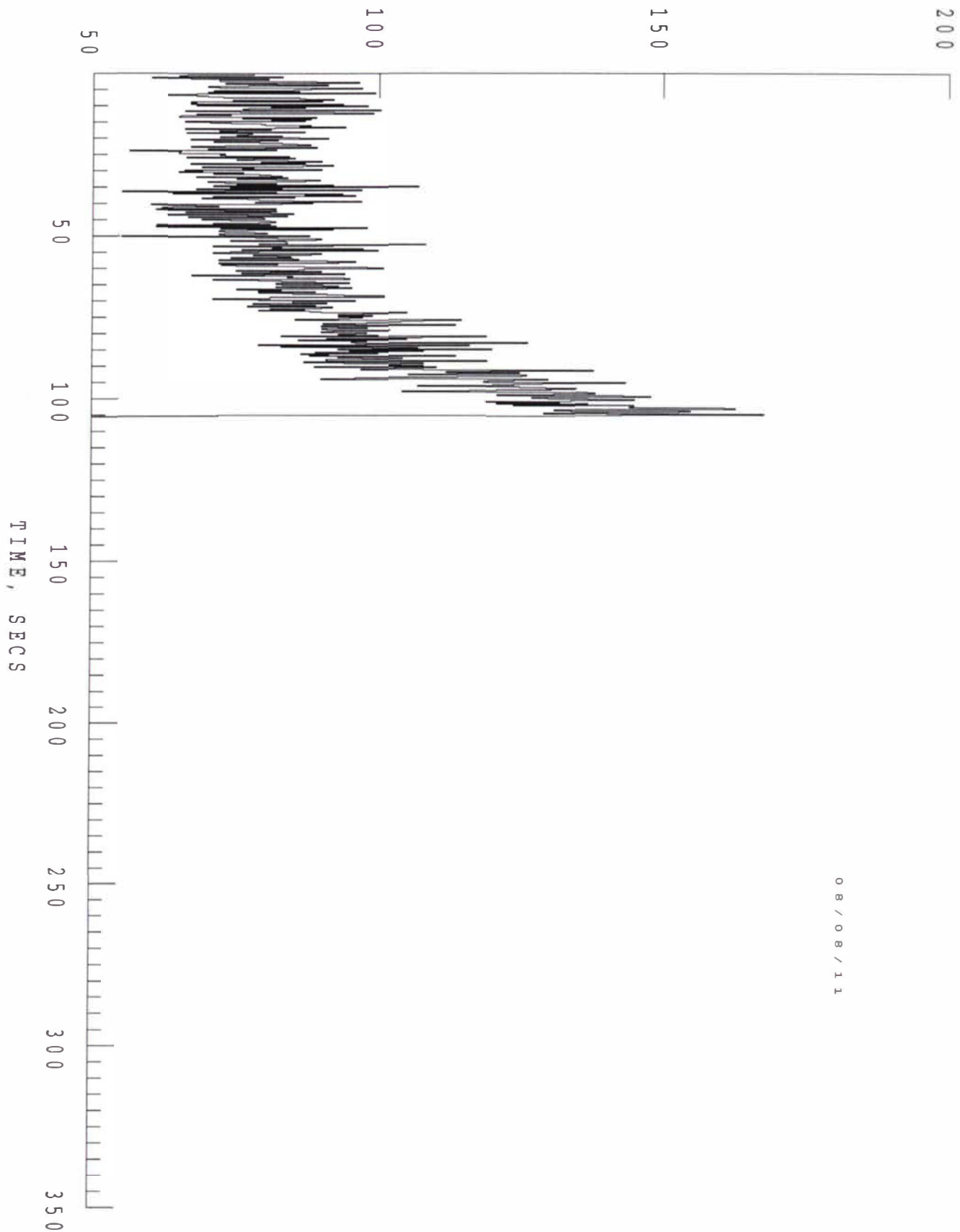


HESSI

04/08/11 82014.000 (GLAST_20110804_82164)

25- 150 keV

COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 110804_2249

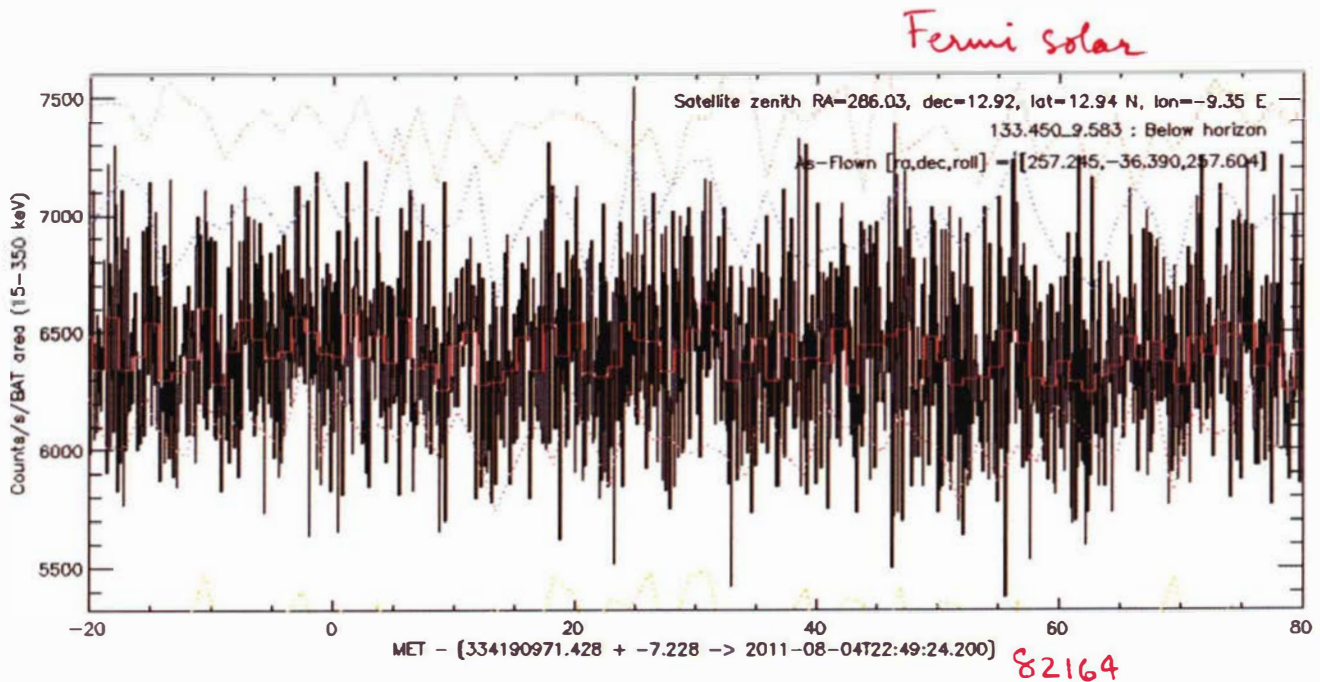
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 23:09:01 -0600 (MDT)

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

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

/tmp/110804_2249.png



```
% /usr/local/bin/swinfo -o 334190971.428 -s 129.250_6.450
Time(MET + UTCF -> UT):      334190971.428 + -7.228 -> 2011-08-04T22:49:24.200
Swift Zenith(RA,dec):        286.03, 12.92
Swift Location(lon,lat,alt):  -9.35 E, 12.94 N, 575 km
Obs Sequence Number:         00035096028
Obs Target Name:              IGR J1709.1-3624
Obs Date and Times:           2011-08-04 22:39:54 - 22:50:50
Obs Pointing(ra,dec,roll):    257.245, -36.390, 257.60
129.250_6.450_imageloc (boresight_dist, angle): (124, -97)
129.250_6.450_exposure (cm2 cos adjusted): 0
129.250_6.450_altitude: -36 (down)
```

```
% /usr/local/bin/swinfo -o 334190971.428 -s 133.450_9.583
Time(MET + UTCF -> UT):      334190971.428 + -7.228 -> 2011-08-04T22:49:24.200
Swift Zenith(RA,dec):        286.03, 12.92
Swift Location(lon,lat,alt):  -9.35 E, 12.94 N, 575 km
Obs Sequence Number:         00035096028
Obs Target Name:              IGR J1709.1-3624
Obs Date and Times:           2011-08-04 22:39:54 - 22:50:50
Obs Pointing(ra,dec,roll):    257.245, -36.390, 257.60
133.450_9.583_imageloc (boresight_dist, angle): (123, -91)
133.450_9.583_exposure (cm2 cos adjusted): 0
133.450_9.583_altitude: -31 (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>

/tmp/110804_2249.png Content-Type: image/png

Content-Encoding: base64

/tmp/110804_2249_bat64ms_ipn

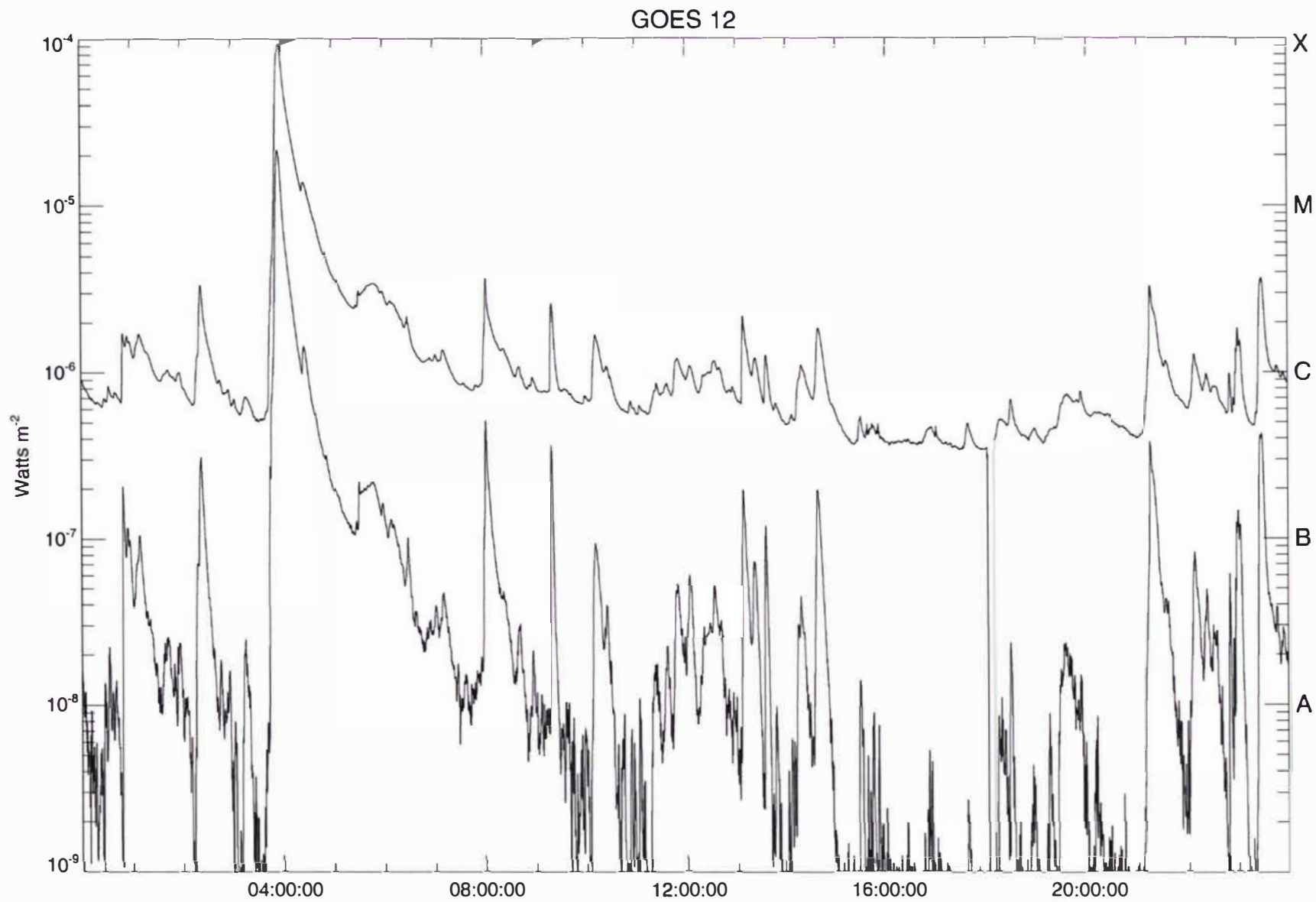
/tmp/110804_2249_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--



Data Start: 11/08/04, 0000:09

Plot created: 11/08/07, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: [lpn] BAT lightcurve for trigger at 110805_1944

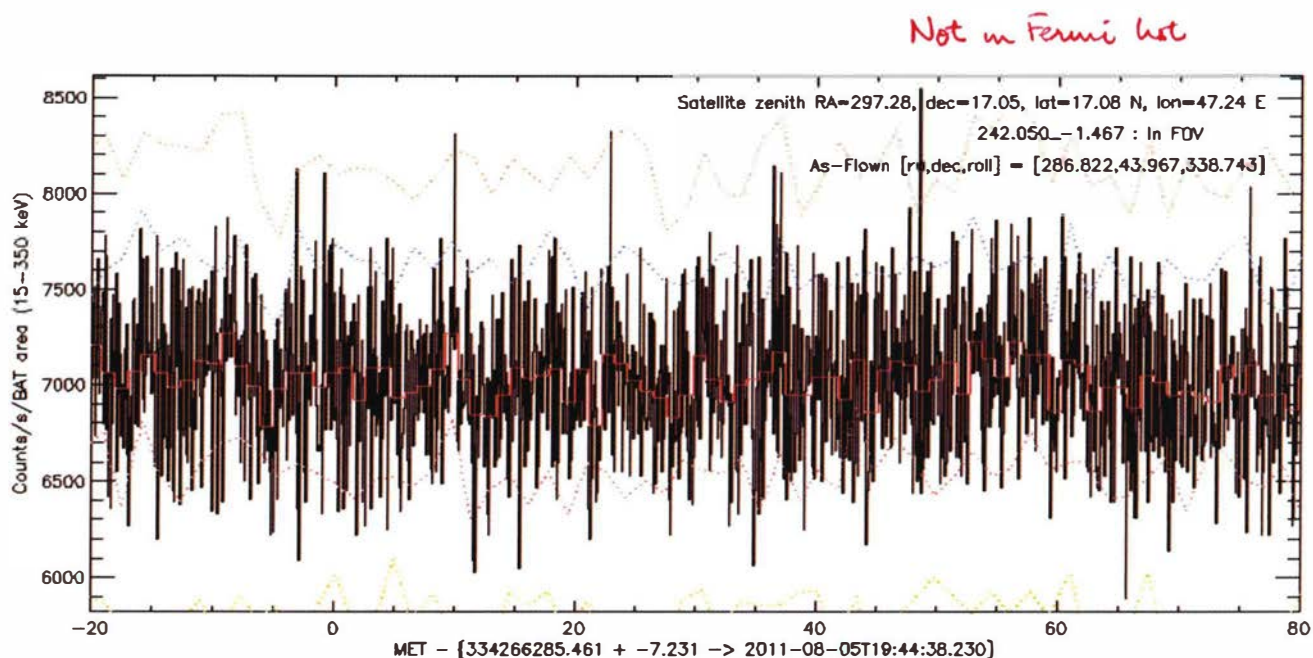
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 5 Aug 2011 23:39:51 -0600 (MDT)

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

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

/tmp/110805_1944.png



```
% /usr/local/bin/swinfo -o 334266285.461 -s 128.550_39.467
Time(MET + UTCF -> UT): 334266285.461 + -7.231 -> 2011-08-05T19:44:38.230
Swift Zenith(RA,dec): 297.28, 17.05
Swift Location(lon,lat,alt): 47.24 E, 17.08 N, 575 km
Obs Sequence Number: 00032042002
Obs Target Name: MV Lyr
Obs Date and Times: 2011-08-05 19:34:54 - 19:45:49
Obs Pointing(ra,dec,roll): 286.822, 43.967, 338.74
128.550_39.467_imageloc (boresight_dist, angle): (94, -85)
128.550_39.467_exposure (cm2 cos adjusted): 0
128.550_39.467_altitude: -9 (down)

% /usr/local/bin/swinfo -o 334266285.461 -s 143.817_25.283
Time(MET + UTCF -> UT): 334266285.461 + -7.231 -> 2011-08-05T19:44:38.230
Swift Zenith(RA,dec): 297.28, 17.05
Swift Location(lon,lat,alt): 47.24 E, 17.08 N, 575 km
Obs Sequence Number: 00032042002
Obs Target Name: MV Lyr
Obs Date and Times: 2011-08-05 19:34:54 - 19:45:49
Obs Pointing(ra,dec,roll): 286.822, 43.967, 338.74
143.817_25.283_imageloc (boresight_dist, angle): (103, -103)
143.817_25.283_exposure (cm2 cos adjusted): 0
143.817_25.283_altitude: -17 (down)

% /usr/local/bin/swinfo -o 334266285.461 -s 242.050_-1.467
Time(MET + UTCF -> UT): 334266285.461 + -7.231 -> 2011-08-05T19:44:38.230
Swift Zenith(RA,dec): 297.28, 17.05
Swift Location(lon,lat,alt): 47.24 E, 17.08 N, 575 km
Obs Sequence Number: 00032042002
Obs Target Name: MV Lyr
Obs Date and Times: 2011-08-05 19:34:54 - 19:45:49
Obs Pointing(ra,dec,roll): 286.822, 43.967, 338.74
242.050_-1.467_imageloc (boresight_dist, angle): (60, 165)
242.050_-1.467_exposure (cm2 cos adjusted): 1
242.050_-1.467_altitude: 56 (up)
```

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

TSPA -- Automatically generated plot of publicly-available scientific data

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

/tmp/110805_1944.png	Content-Type: image/png
	Content-Encoding: base64

/tmp/110805_1944_bat64ms_ipn

/tmp/110805_1944_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

Subject: [lbn] BAT lightcurve for trigger at 110805_2205

From: palmer+automatic_lightcurve@lanl.gov

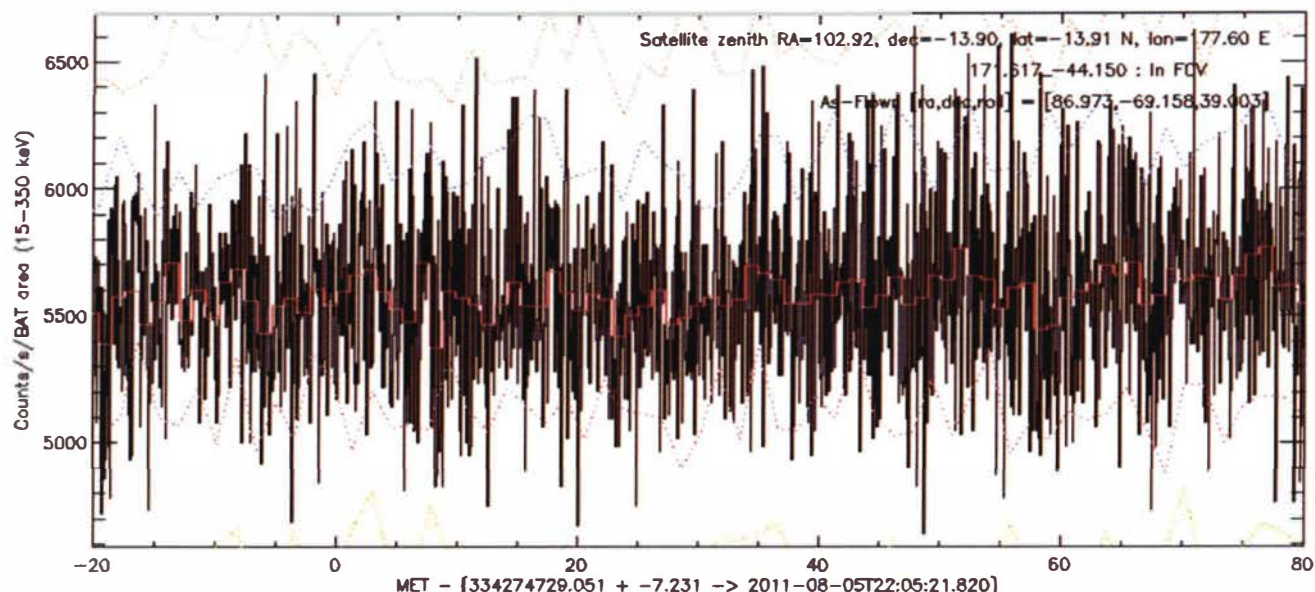
Date: Fri, 5 Aug 2011 23:39:51 -0600 (MDT)

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

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

/tmp/110805_2205.png

Not in Fermi lat



```
% /usr/local/bin/swinfo -o 334274729.051 -s 158.160_-38.390
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
158.160_-38.390_imageloc (boresight_dist, angle): (48, -40)
158.160_-38.390_exposure (cm2 cos adjusted): 844
158.160_-38.390_altitude: 60 (up)
```

```
% /usr/local/bin/swinfo -o 334274729.051 -s 161.120_-31.830
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
161.120_-31.830_imageloc (boresight_dist, angle): (55, -41)
161.120_-31.830_exposure (cm2 cos adjusted): 85
161.120_-31.830_altitude: 58 (up)
```

```
% /usr/local/bin/swinfo -o 334274729.051 -s 161.410_-34.110
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
161.410_-34.110_imageloc (boresight_dist, angle): (53, -40)
161.410_-34.110_exposure (cm2 cos adjusted): 314
161.410_-34.110_altitude: 58 (up)
```

```
% /usr/local/bin/swinfo -o 334274729.051 -s 163.533_-39.817
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
```



```

Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
163.533_-39.817_imageloc (boresight_dist, angle): (49, -34)
163.533_-39.817_exposure (cm2 cos adjusted): 979
163.533_-39.817_altitude: 55 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 163.920 -26.460
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
163.920_-26.460_imageloc (boresight_dist, angle): (61, -41)
163.920_-26.460_exposure (cm2 cos adjusted): 0
163.920_-26.460_altitude: 56 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 164.750 -32.940
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
164.750_-32.940_imageloc (boresight_dist, angle): (55, -37)
164.750_-32.940_exposure (cm2 cos adjusted): 206
164.750_-32.940_altitude: 55 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 167.200 -22.520
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
167.200_-22.520_imageloc (boresight_dist, angle): (66, -40)
167.200_-22.520_exposure (cm2 cos adjusted): 0
167.200_-22.520_altitude: 53 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 170.183 -35.183
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
170.183_-35.183_imageloc (boresight_dist, angle): (55, -31)
170.183_-35.183_exposure (cm2 cos adjusted): 402
170.183_-35.183_altitude: 50 (up)

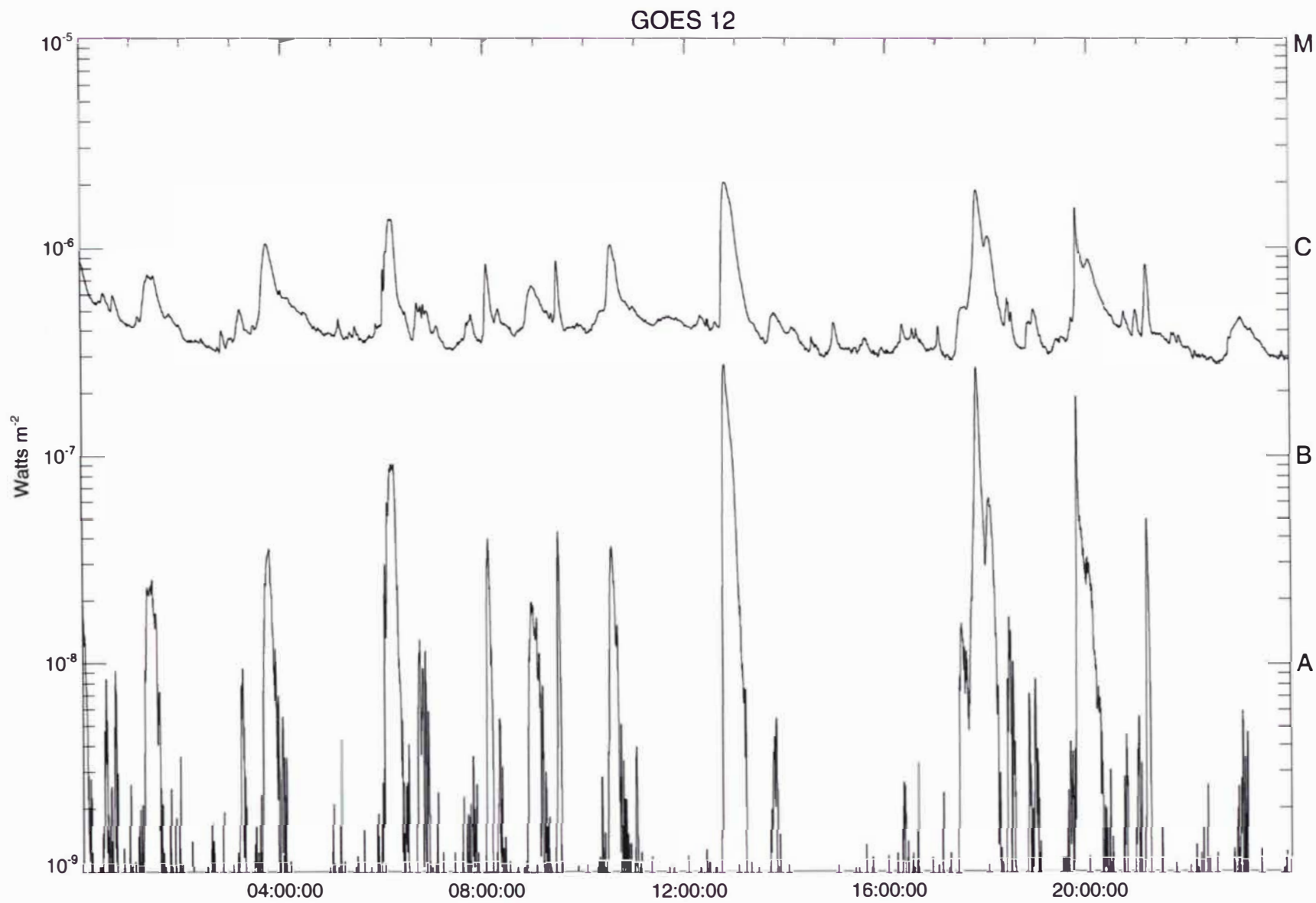
% /usr/local/bin/swinfo -o 334274729.051 -s 170.483 -35.350
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
170.483_-35.350_imageloc (boresight_dist, angle): (55, -31)
170.483_-35.350_exposure (cm2 cos adjusted): 416
170.483_-35.350_altitude: 50 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 171.290 -37.930
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
171.290_-37.930_imageloc (boresight_dist, angle): (53, -28)
171.290_-37.930_exposure (cm2 cos adjusted): 672
171.290_-37.930_altitude: 49 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 171.400 -39.883
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
171.400_-39.883_imageloc (boresight_dist, angle): (51, -27)
171.400_-39.883_exposure (cm2 cos adjusted): 895
171.400_-39.883_altitude: 49 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 171.617 -44.150

```



Data Start: 11/08/05, 0000:09

Plot created: 11/08/08, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

SUZAKU

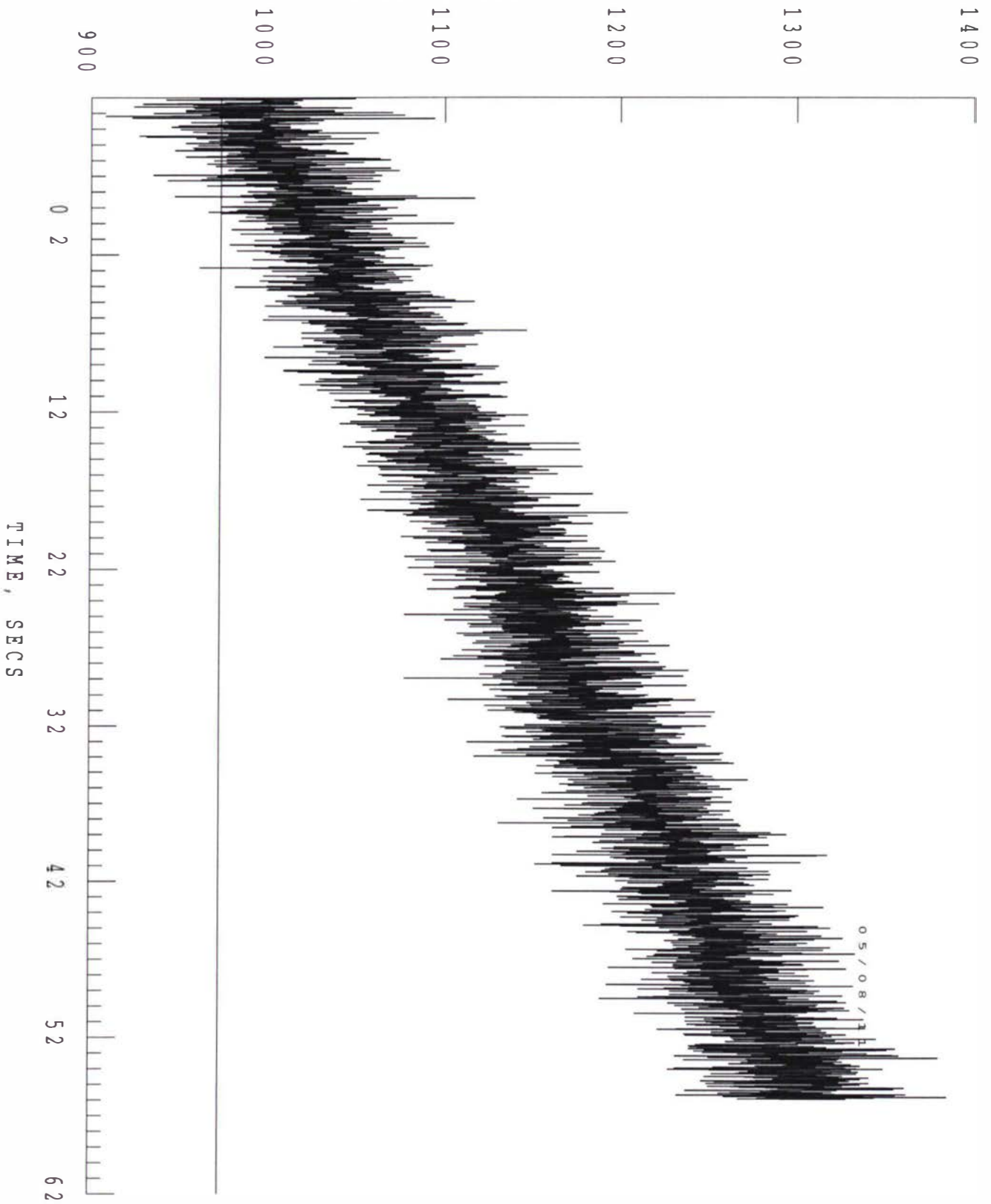
06/08/11

4065.146

50 - 240 keV

Not in Suzaku list

COUNTS/0.016 S

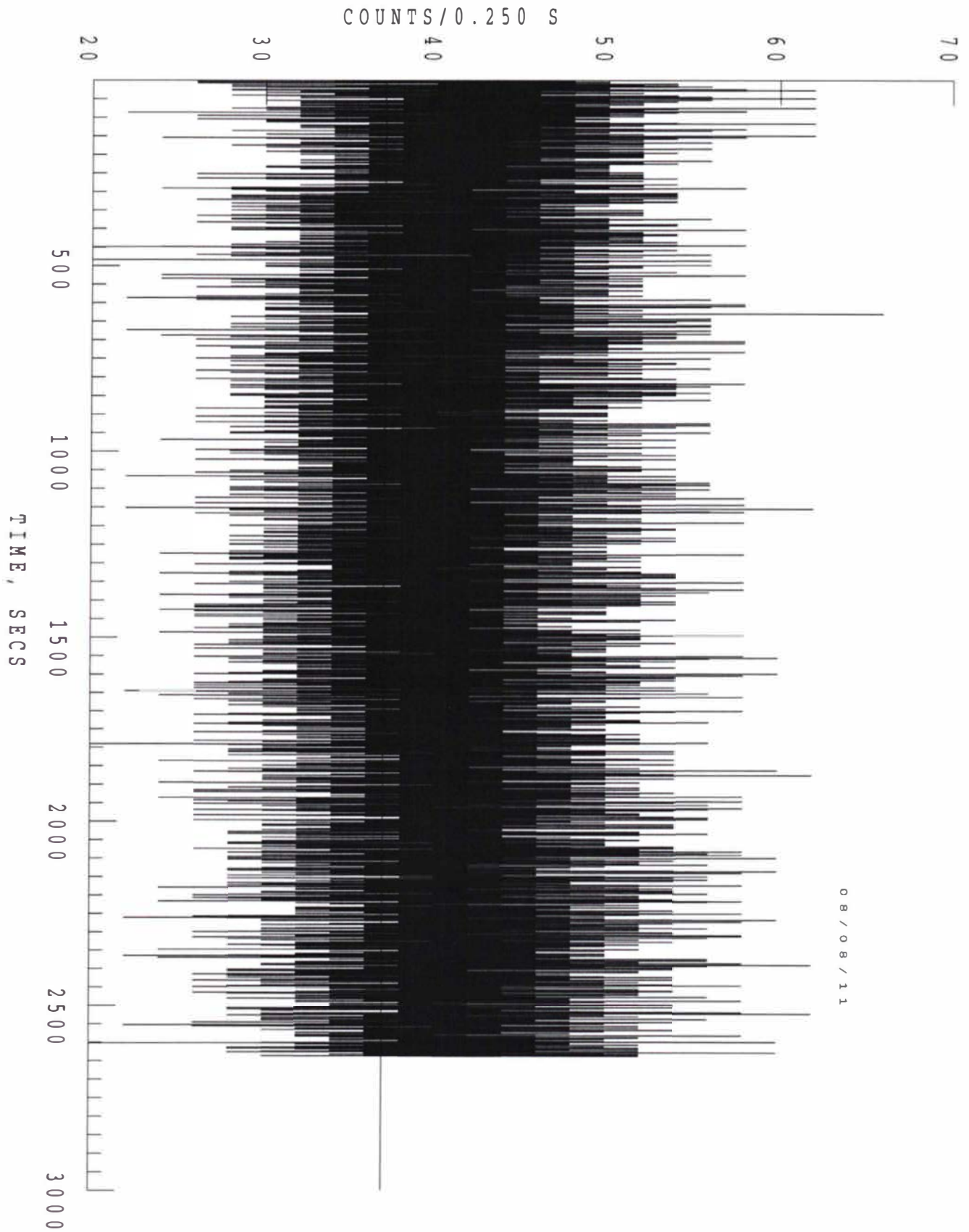


MS01

06/08/11

2727.080

50 - 3000 keV



HESSI

06/08/11 3914.000 (SUZAKU_20110806_04065)

25- 150 keV

COUNTS/0.250 S

115

90

65

40

50

100

150

200

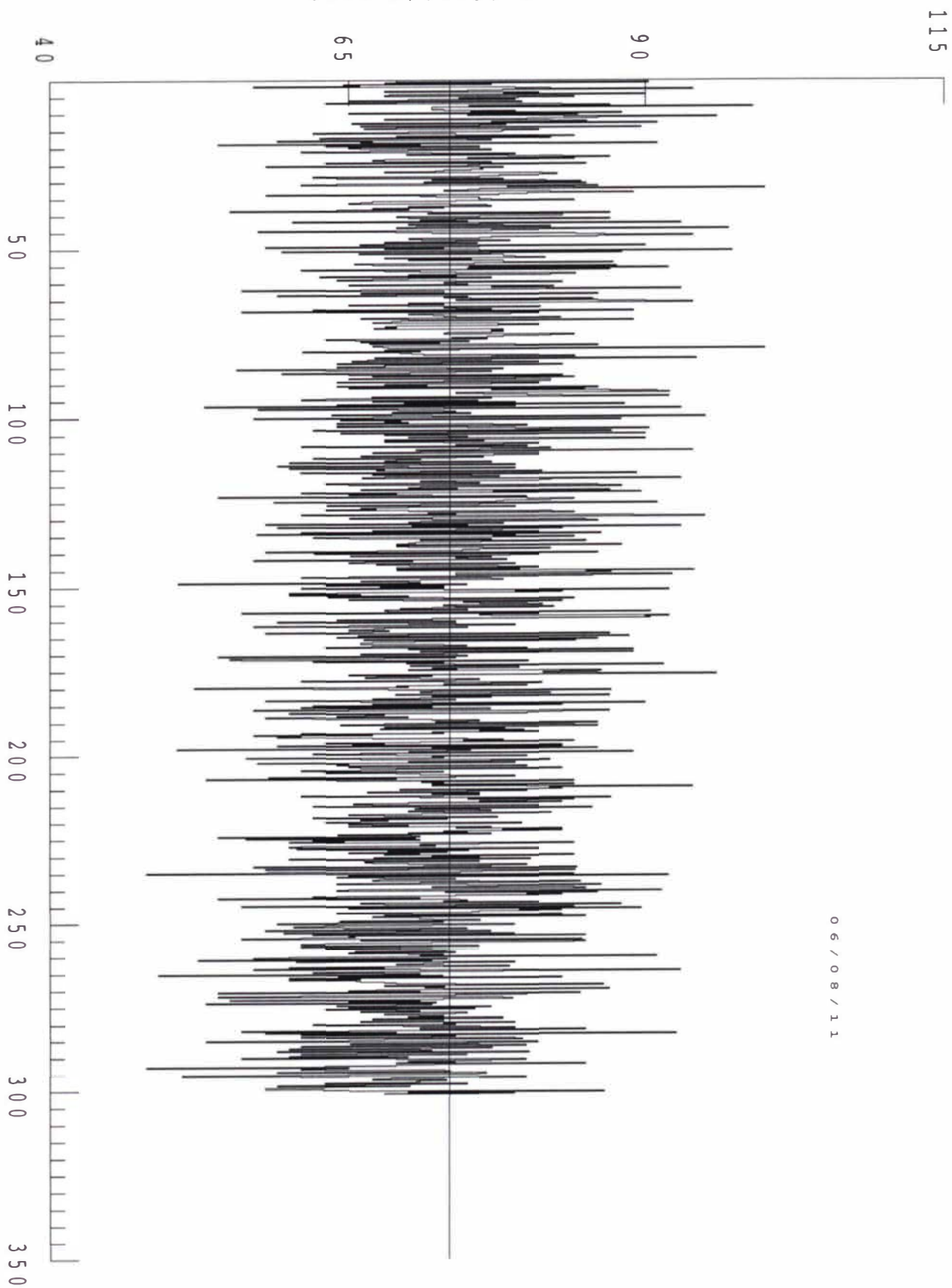
250

300

350

TIME, SECS

06/08/11



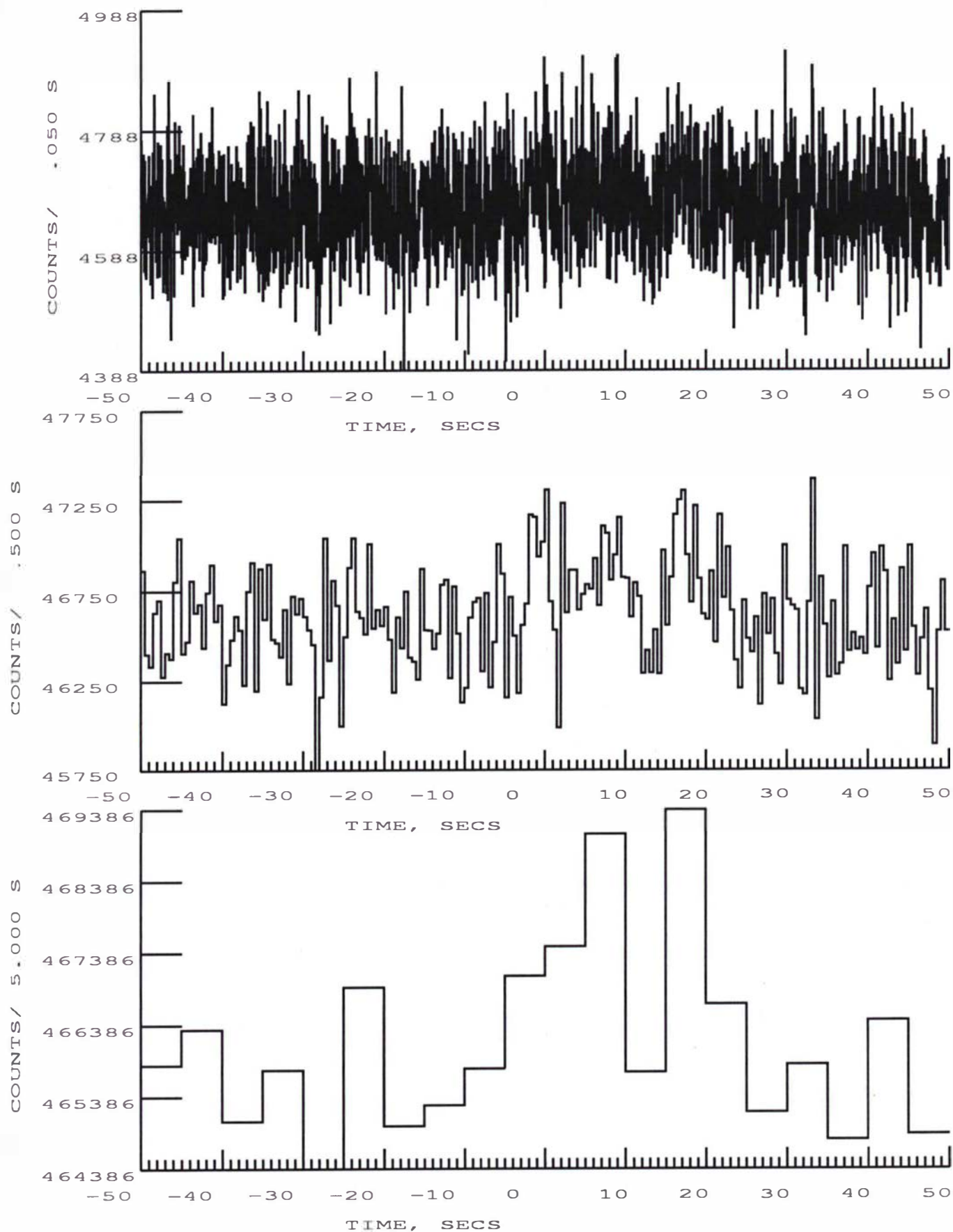
INTEGRAL

06/08/11

80731.000

22:25:31.0

20/01/14



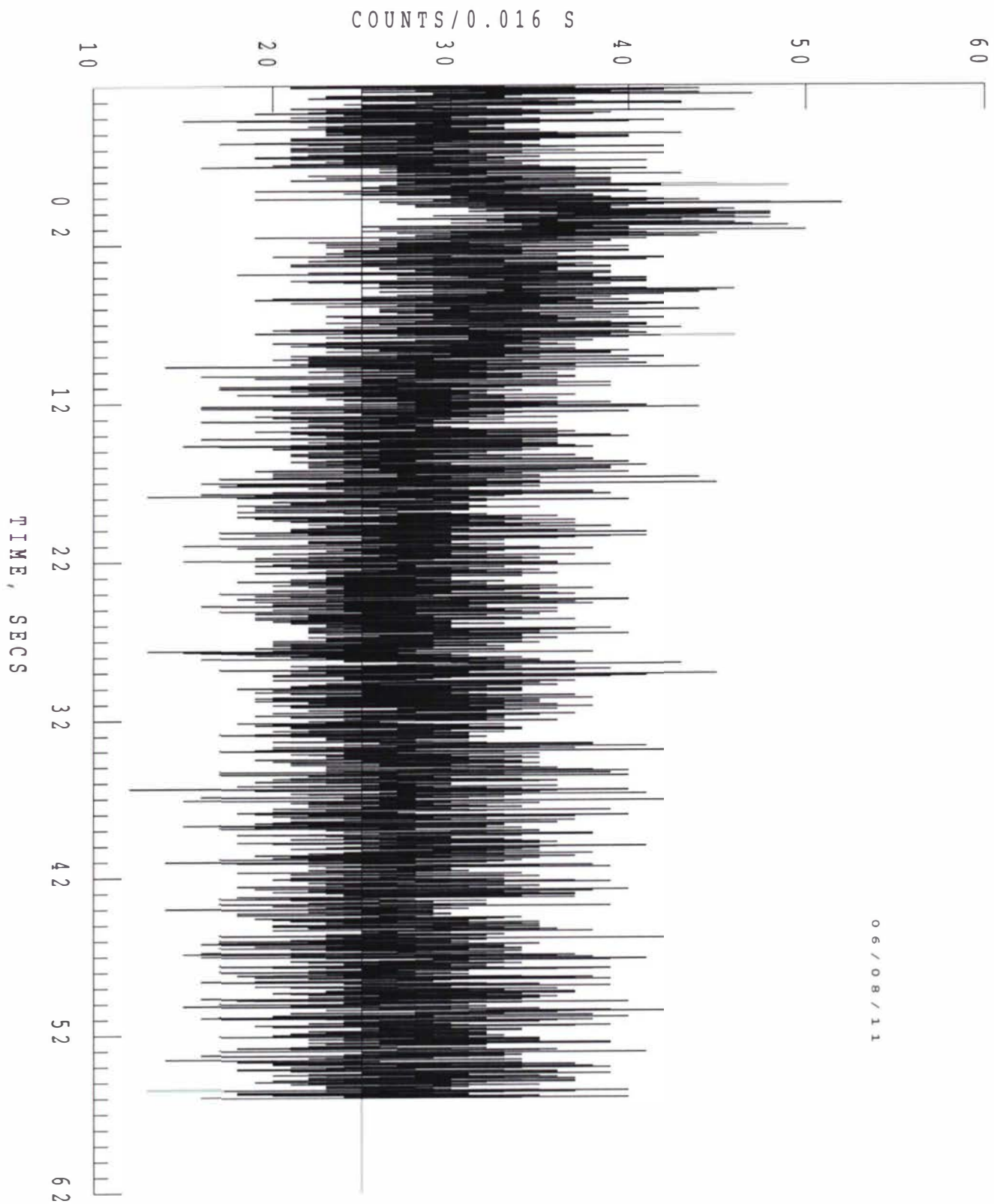
A

SUZAKU

06/08/11

80748.134

50 - 240 keV



A

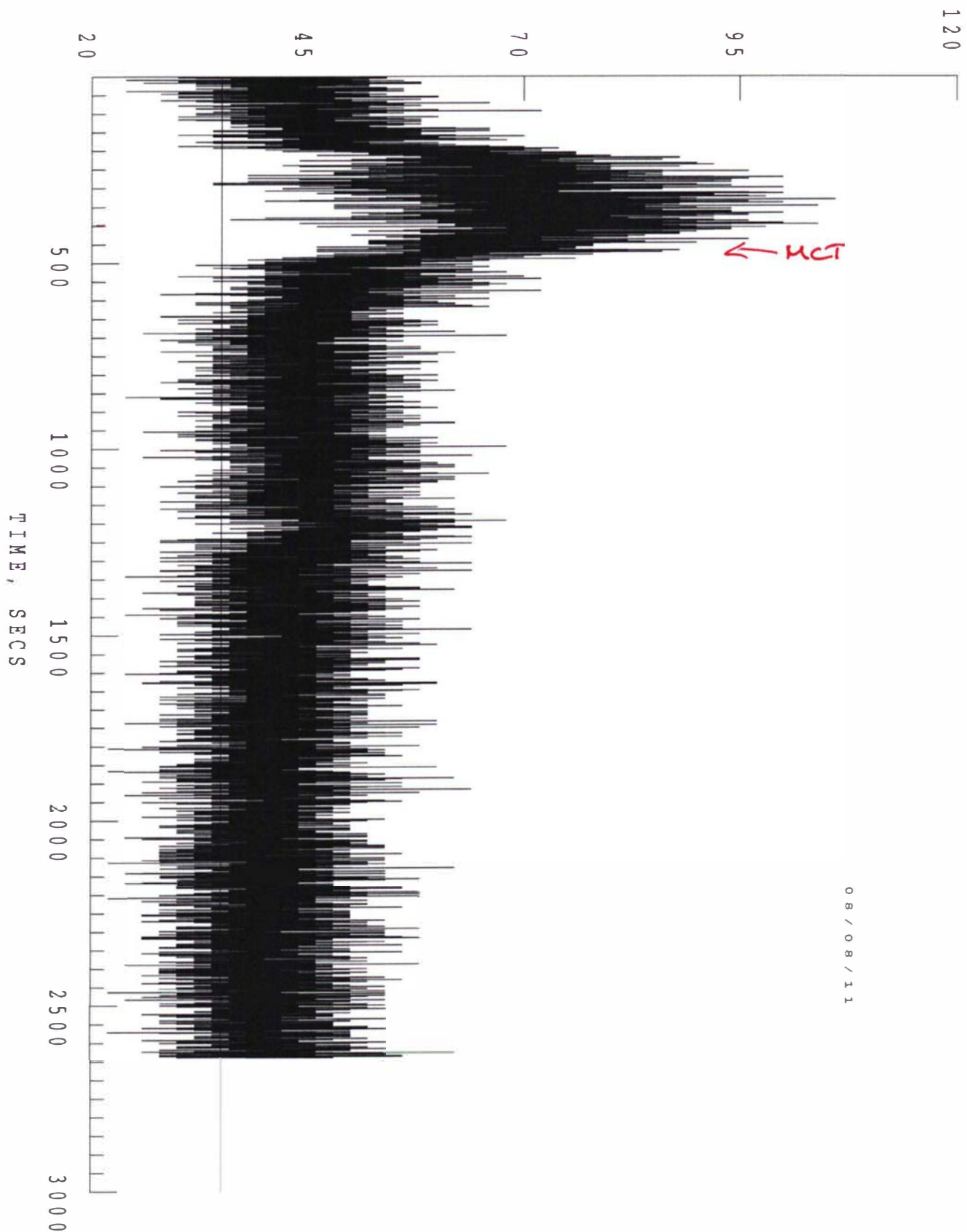
MS01

06/08/11

79405.719

50 - 3000 keV

COUNTS/0.250 S

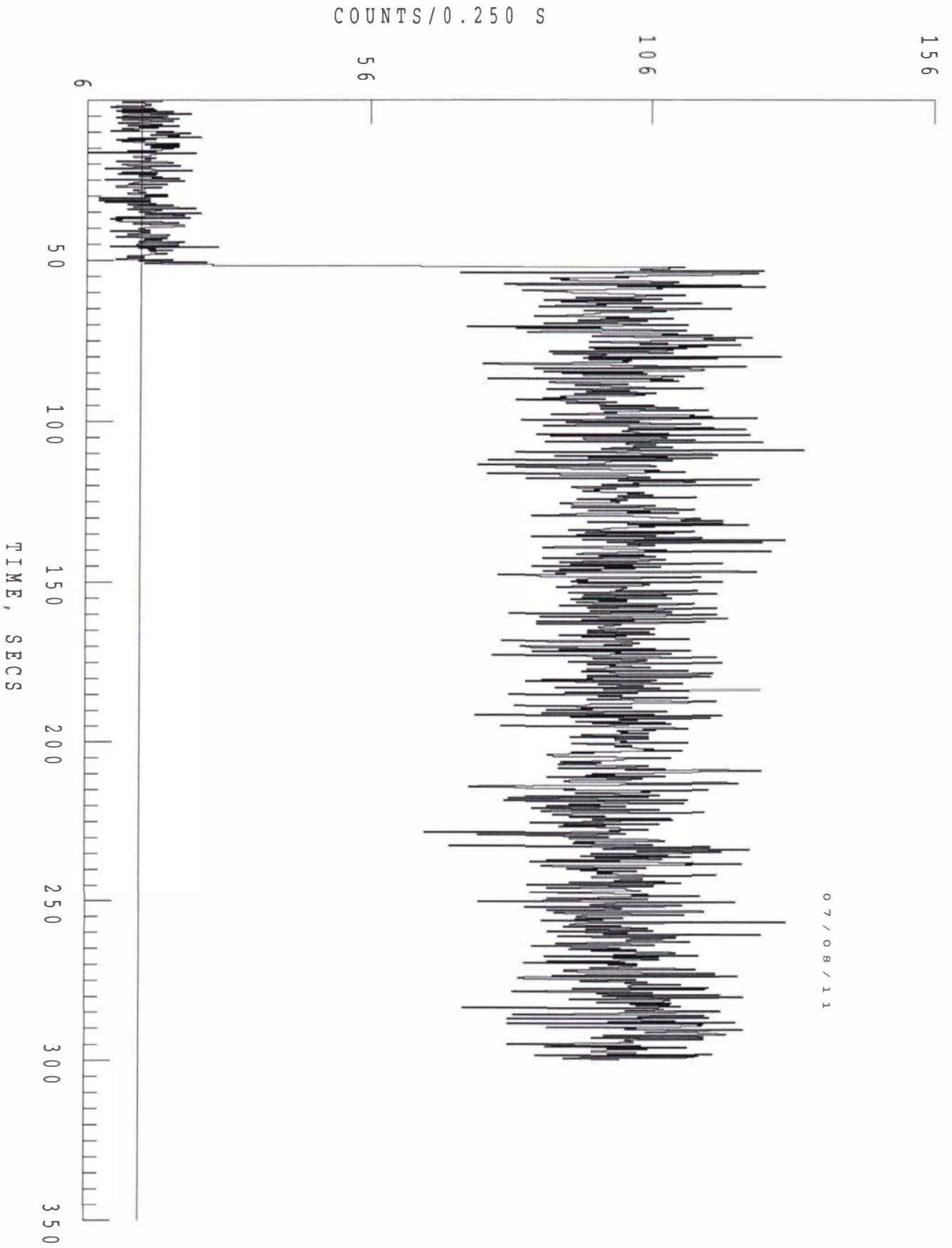


HESSI

06/08/11 80598.000 (SUZAKU_20110806_80748)

A

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110806_2225

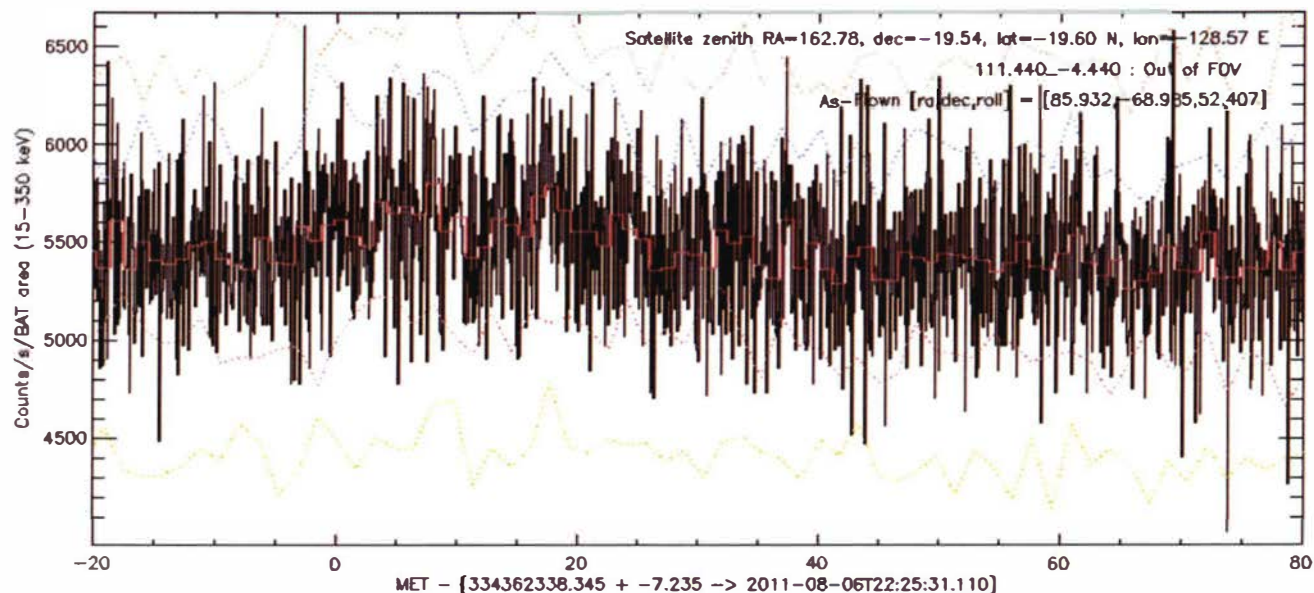
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 6 Aug 2011 21:38:45 -0600 (MDT)

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

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

/tmp/110806_2225.png



80731

```
% /usr/local/bin/swinfo -o 334362338.345 -s 104.067_-14.167
Time(MET + UTCF -> UT): 334362338.345 + -7.235 -> 2011-08-06T22:25:31.110
Swift Zenith(RA,dec): 162.78, -19.54
Swift Location(lon,lat,alt): -128.57 E, -19.60 N, 589 km
Obs Sequence Number: 00045428001
Obs Target Name: LMC_Survey_7
Obs Date and Times: 2011-08-06 22:02:54 - 22:26:49
Obs Pointing(ra,dec,roll): 85.932, -68.985, 52.41
104.067_-14.167_imageloc (boresight_dist, angle): (56, -121)
104.067_-14.167_exposure (cm^2 cos adjusted): 0
104.067_-14.167_altitude: 58 (up)
```

```
% /usr/local/bin/swinfo -o 334362338.345 -s 108.040_7.170
Time(MET + UTCF -> UT): 334362338.345 + -7.235 -> 2011-08-06T22:25:31.110
Swift Zenith(RA,dec): 162.78, -19.54
Swift Location(lon,lat,alt): -128.57 E, -19.60 N, 589 km
Obs Sequence Number: 00045428001
Obs Target Name: LMC_Survey_7
Obs Date and Times: 2011-08-06 22:02:54 - 22:26:49
Obs Pointing(ra,dec,roll): 85.932, -68.985, 52.41
108.040_7.170_imageloc (boresight_dist, angle): (78, -120)
108.040_7.170_exposure (cm^2 cos adjusted): 0
108.040_7.170_altitude: 54 (up)
```

```
% /usr/local/bin/swinfo -o 334362338.345 -s 108.550_-5.800
Time(MET + UTCF -> UT): 334362338.345 + -7.235 -> 2011-08-06T22:25:31.110
Swift Zenith(RA,dec): 162.78, -19.54
Swift Location(lon,lat,alt): -128.57 E, -19.60 N, 589 km
Obs Sequence Number: 00045428001
Obs Target Name: LMC_Survey_7
Obs Date and Times: 2011-08-06 22:02:54 - 22:26:49
Obs Pointing(ra,dec,roll): 85.932, -68.985, 52.41
108.550_-5.800_imageloc (boresight_dist, angle): (65, -117)
108.550_-5.800_exposure (cm^2 cos adjusted): 0
108.550_-5.800_altitude: 59 (up)
```

```
% /usr/local/bin/swinfo -o 334362338.345 -s 111.440_-4.440
Time(MET + UTCF -> UT): 334362338.345 + -7.235 -> 2011-08-06T22:25:31.110
Swift Zenith(RA,dec): 162.78, -19.54
```

[Ipn] BAT lightcurve for trigger at I10806_2225

Swift Location(lon,lat,alt): -128.57 E, -19.60 N, 589 km
Obs Sequence Number: 00045428001
Obs Target Name: LMC_Survey_7
Obs Date and Times: 2011-08-06 22:02:54 - 22:26:49
Obs Pointing(ra,dec,roll): 85.932, -68.985, 52.41
111.440_-4.440_imageloc (boresight_dist, angle): (67, -115)
111.440_-4.440_exposure (cm² cos adjusted): 0
111.440_-4.440_altitude: 62 (up)

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

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

/tmp/110806_2225.png	Content-Type: image/png
	Content-Encoding: base64

/tmp/110806_2225_bat64ms_ipn

/tmp/110806_2225_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

GLAST

06/08/11

80731.115

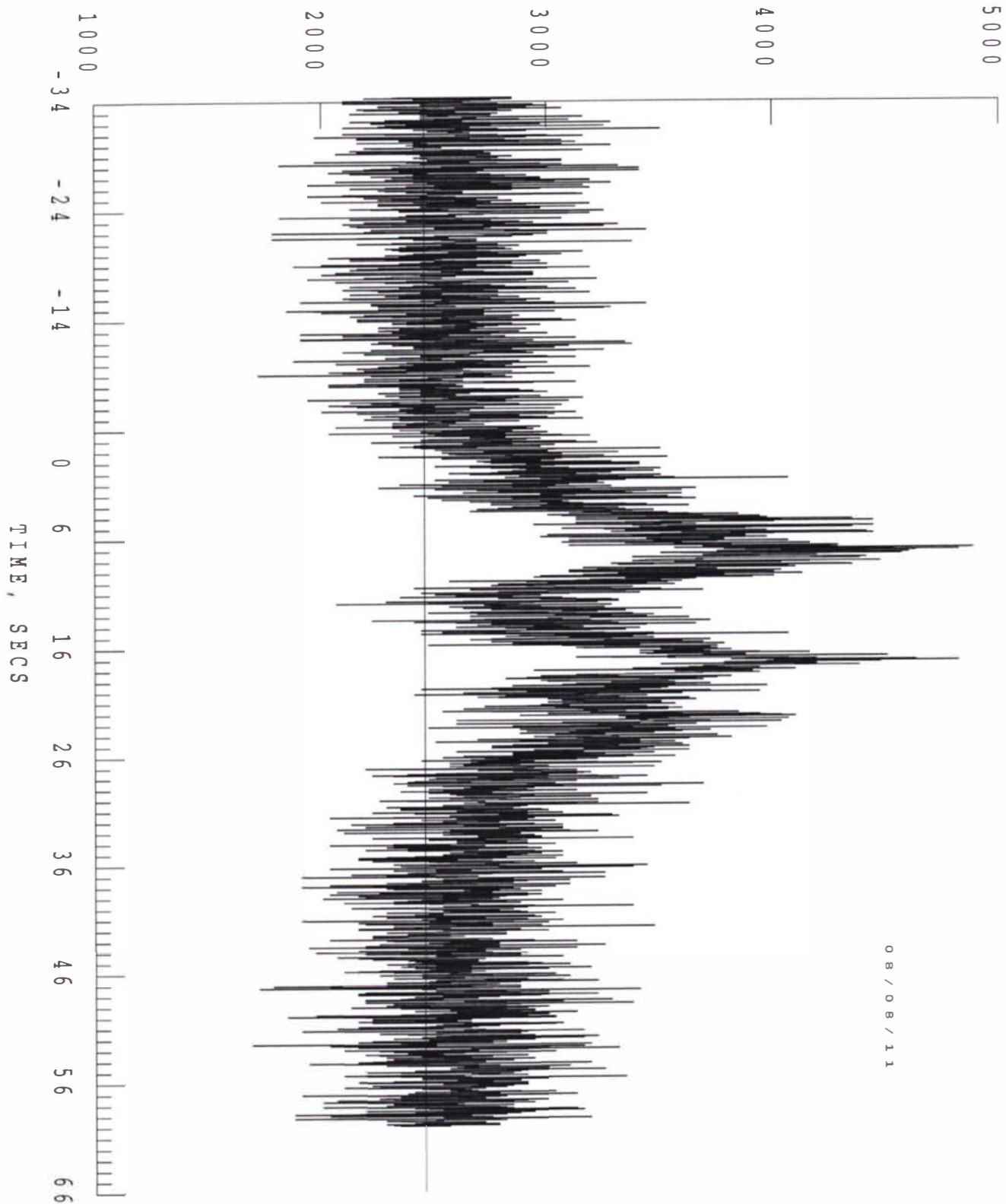
22:25:31

A

26- 293 keV

112.04 2.38 2.42

COUNTS/0.032 S



B

GLAST

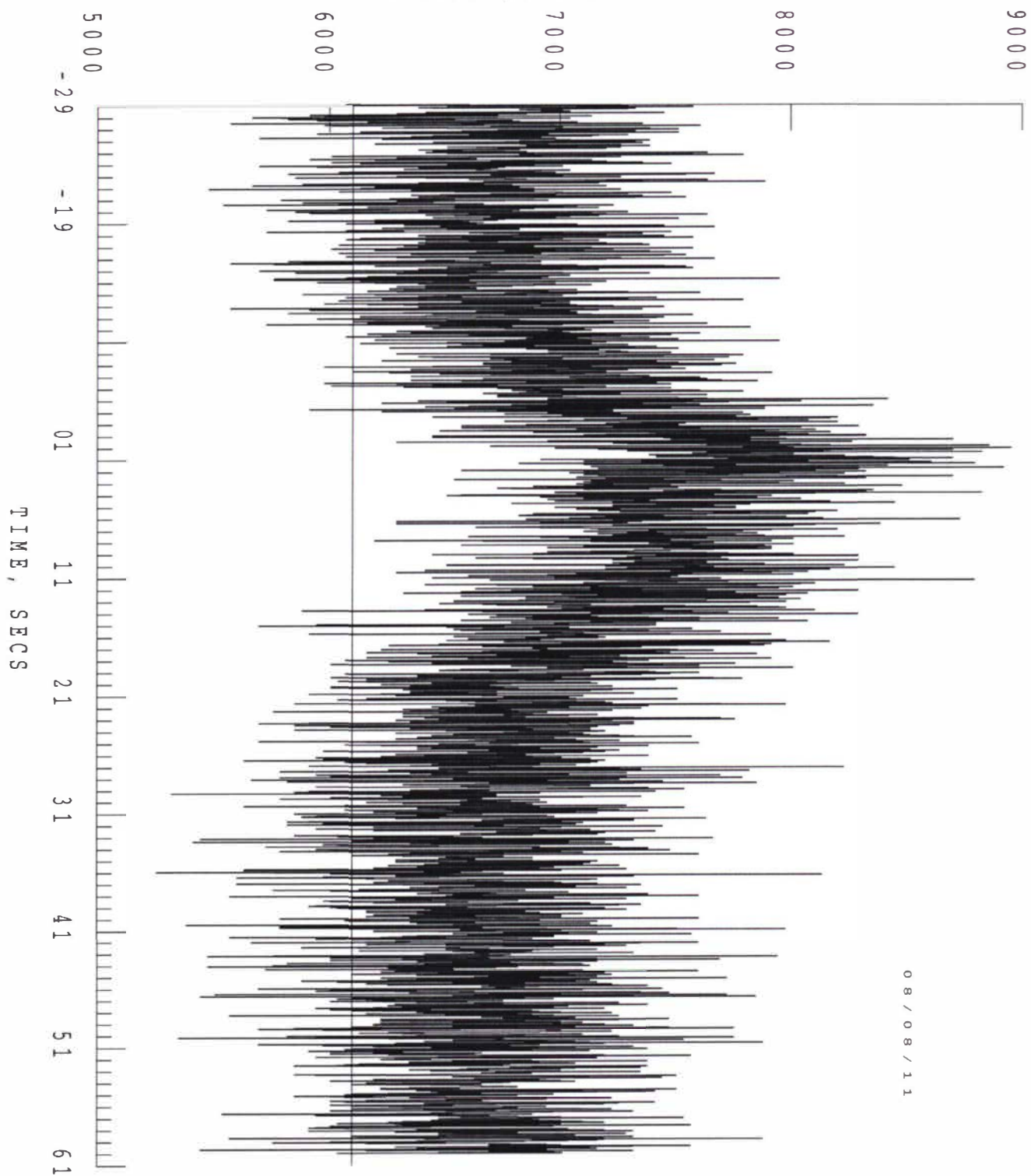
06/08/11

85746.924

26 - 293 keV

Particles

COUNTS/0.032 S



MS01

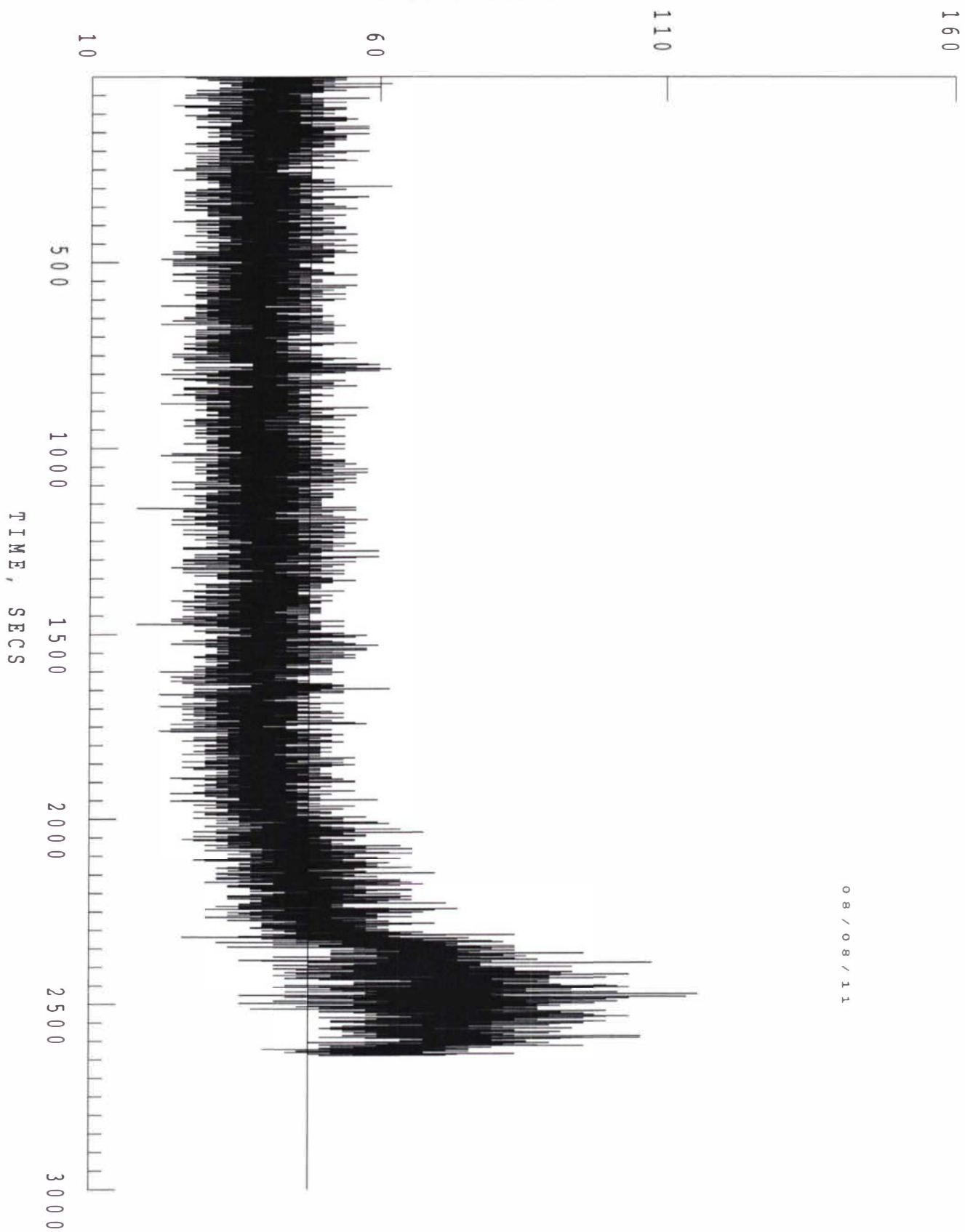
06/08/11

84385.627

B

50 - 3000 keV

COUNTS/0.250 S



08/08/11

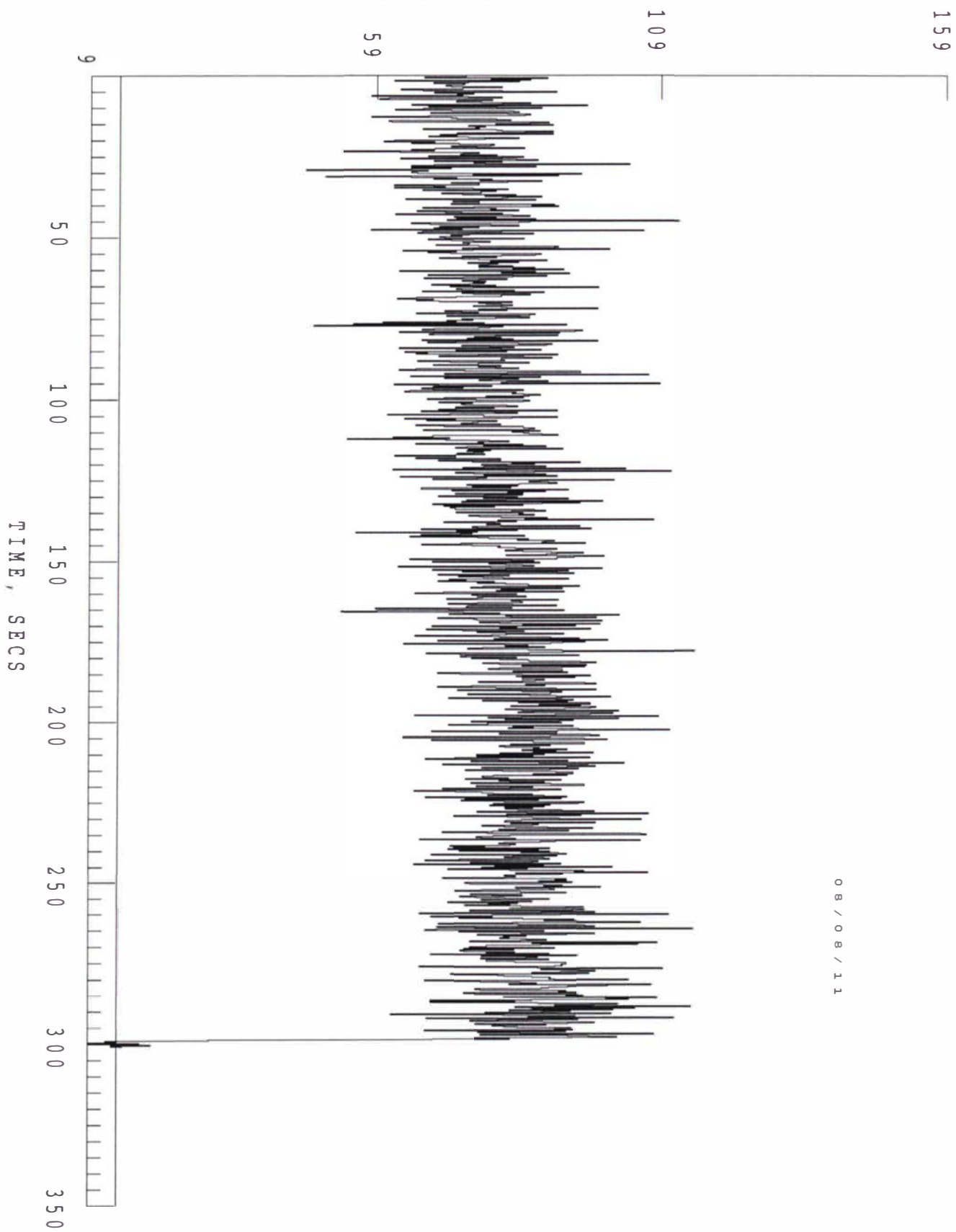
B

HESSI

06/08/11 85595.000 (GLAST_20110806_85746)

25- 150 keV

COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 110806_2349

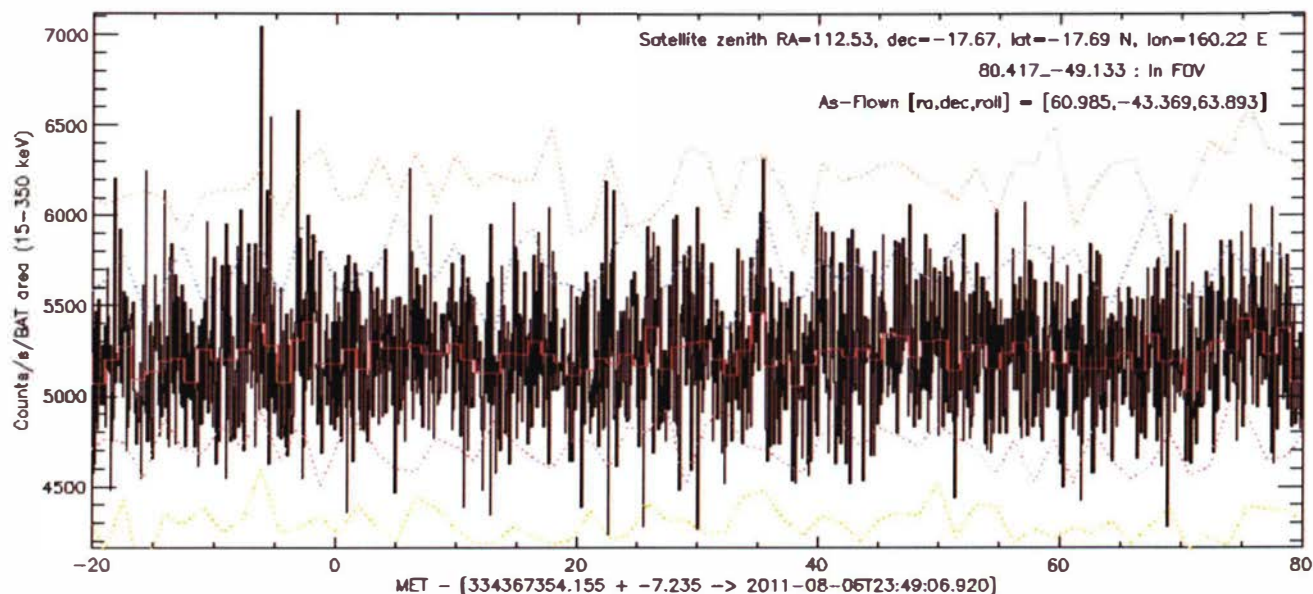
From: palmer+automatic_lightcurve@lanl.gov

Date: Sun, 7 Aug 2011 01:22:32 -0600 (MDT)

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

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

/tmp/110806_2349.png



85746

```
% /usr/local/bin/swinfo -o 334367354.155 -s 80.417_-49.133
Time(MET + UTCF -> UT):      334367354.155 + -7.235 -> 2011-08-06T23:49:06.920
Swift Zenith(RA,dec):        112.53, -17.67
Swift Location(lon,lat,alt):  160.22 E, -17.69 N, 596 km
Obs Sequence Number:         00045603005
Obs Target Name:              NGC 1512
Obs Date and Times:           2011-08-06 23:38:54 - 23:59:51
Obs Pointing(ra,dec,roll):    60.985, -43.369, 63.89
80.417_-49.133_imageloc (boresight_dist, angle): (15, -34)
80.417_-49.133_exposure (cm^2 cos adjusted): 4224
80.417_-49.133_altitude: 73 (up)
```

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

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

/tmp/110806_2349_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110806_2349.png

/tmp/110806_2349.png

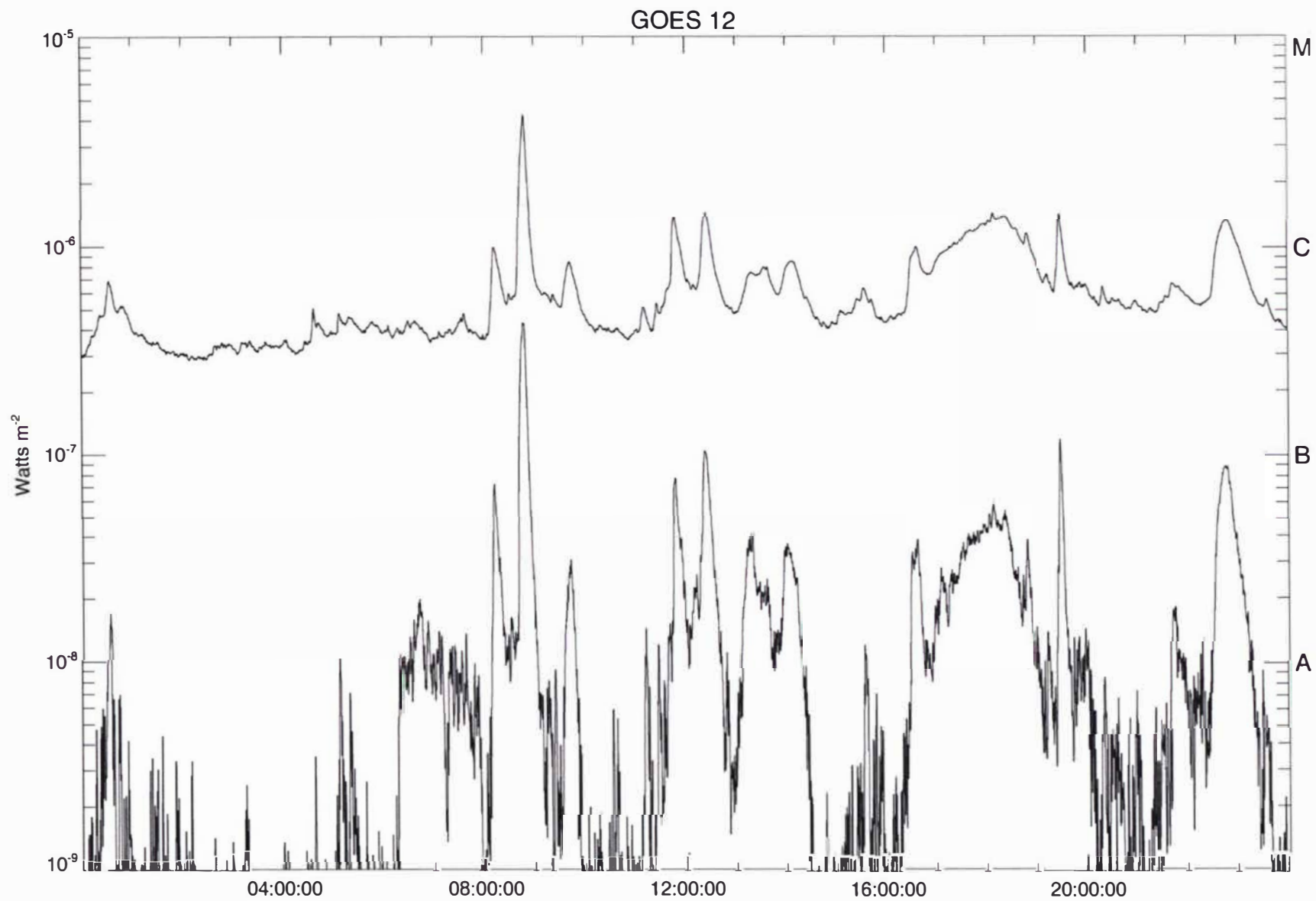
Content-Type: image/png
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit



Data Start: 11/08/06, 0000:09

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 11/08/09, 0832

Sample average = 10

From vxw@capella2.gsfc.nasa.gov Sun Aug 7 13:00:57 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Sun, 7 Aug 2011 16:01:33 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 027c3c0156fc0749bc3db456872a84a75f8508bc
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Sun 07 Aug 11 20:01:32 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 458907, Seg Num: 0
GRB_RA: 278.696d {+18h 34m 47s} (J2000),
278.855d {+18h 35m 25s} (current),
278.013d {+18h 32m 03s} (1950)
GRB_DEC: -8.760d {-08d 45' 35"} (J2000),
-8.750d {-08d 45' 00"} (current),
-8.800d {-08d 48' 01"} (1950)
GRB_DATE: 15780 TJD; 219 DOY; 11/08/07
GRB_TIME: 71866.37 SOD {19:57:46.37} UT
TRIGGER_INDEX: 10318
GRB_PHI: 23.68 [deg]
GRB_THETA: 19.83 [deg]
DELTA_TIME: 0.00 [sec]
TRIGGER_DUR: 0.032 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 18.94 [sigma]
IMAGE_SIGNIF: 7.65 [sigma]
URL: sw00458907000msb.lc
SUN_POSTN: 137.44d {+09h 09m 45s} +16.34d {+16d 20' 36"}
SUN_DIST: 141.65 [deg] Sun_angle= -9.4 [hr] (East of Sun)
MOON_POSTN: 240.30d {+16h 01m 12s} -22.43d {-22d 25' 47"}
MOON_DIST: 39.42 [deg]
MOON_ILLUM: 65 [%]
GAL_COORDS: 23.25, -0.32 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 278.88, 14.41 [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 = 55.08,20.31 [deg]

From gncirc@capella2.gsfc.nasa.gov Sun Aug 7 13:21:45 2011
 X-Barracuda-Envelope-From: gncirc@capella2.gsfc.nasa.gov
 From: GCN Circulars <gncirc@capella2.gsfc.nasa.gov>
 Subject: GRB 110807A: Swift detection of a burst or a posible new SGR
 To: khurley@ssl.berkeley.edu
 Date: Sun, 7 Aug 2011 16:22:19 -0400 (EDT)
 X-Ucb-Scan-Signature: b3e0d6ce07be07c2589f89598dae1cb944b133d1
 X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
 X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
 NUMBER: 12253
 SUBJECT: GRB 110807A: Swift detection of a burst or a posible new SGR
 DATE: 11/08/07 20:22:17 GMT
 FROM: Scott Barthelmy at NASA/GSFC <scott@milkyway.gsfc.nasa.gov>

V. D'Elia (ASDC), S. D. Barthelmy (GSFC),
 W. H. Baumgartner (GSFC/UMBC), A. P. Beardmore (U Leicester),
 M. M. Chester (PSU), C. Guidorzi (U Ferrara),
 S. T. Holland (CRESST/USRA/GSFC), N. P. M. Kuin (UCL-MSSL),
 C. B. Markwardt (NASA/GSFC), F. E. Marshall (NASA/GSFC),
 A. Melandri (INAF-OAB), D. M. Palmer (LANL), C. J. Saxton (UCL-MSSL),
 G. Stratta (ASDC), C. A. Swenson (PSU) and T. N. Ukwatta (MSU) report
 on behalf of the Swift Team:

At 19:57:46 UT, the Swift Burst Alert Telescope (BAT) triggered and
 located GRB 110807A (trigger=458907). Swift slewed immediately to the burst.
 The BAT on-board calculated location is

RA, Dec 278.696, -8.760 which is

RA(J2000) = 18h 34m 47s

Dec(J2000) = -08d 45' 35"

with an uncertainty of 3 arcmin (radius, 90% containment, including
 systematic uncertainty). The BAT light curve shows a single timebin spike
 structure with a duration of less than 0.064 sec. The peak count rate
 was ~3500 counts/sec (15-350 keV), at ~0 sec after the trigger.

The XRT began observing the field at 20:03:13.2 UT, 326.8 seconds after
 the BAT trigger. Using promptly downlinked data we find an X-ray source
 located at RA, Dec 278.71751, -8.76597 which is equivalent to:

RA(J2000) = 18h 34m 52.20s

Dec(J2000) = -08d 45' 57.5"

with an uncertainty of 3.7 arcseconds (radius, 90% containment). This
 location is 79 arcseconds from the BAT onboard position, within the BAT
 error circle. This position may be improved as more data are received;
 the latest position is available at <http://www.swift.ac.uk/sper>. We
 cannot determine whether the source is fading at the present time. This
 position is 6.6 arcseconds from that of a known X-ray source: 2XMM
 J183452.4-084603 in the XMM-NEWTON XMMSSC catalogue.

A power-law fit to a spectrum formed from promptly downlinked event
 data does not constrain the column density.

UVOT took a finding chart exposure of 150 seconds with the White filter
 starting 332 seconds after the BAT trigger. No credible afterglow candidate has
 been found in the initial data products. The 2.7'x2.7' sub-image covers 100% of
 the XRT error circle. The typical 3-sigma upper limit has been about 19.6 mag.
 The 8'x8' region for the list of sources generated on-board covers 100% of the
 XRT error circle. The list of sources is typically complete to about 18 mag. No
 correction has been made for the large, but uncertain extinction expected.

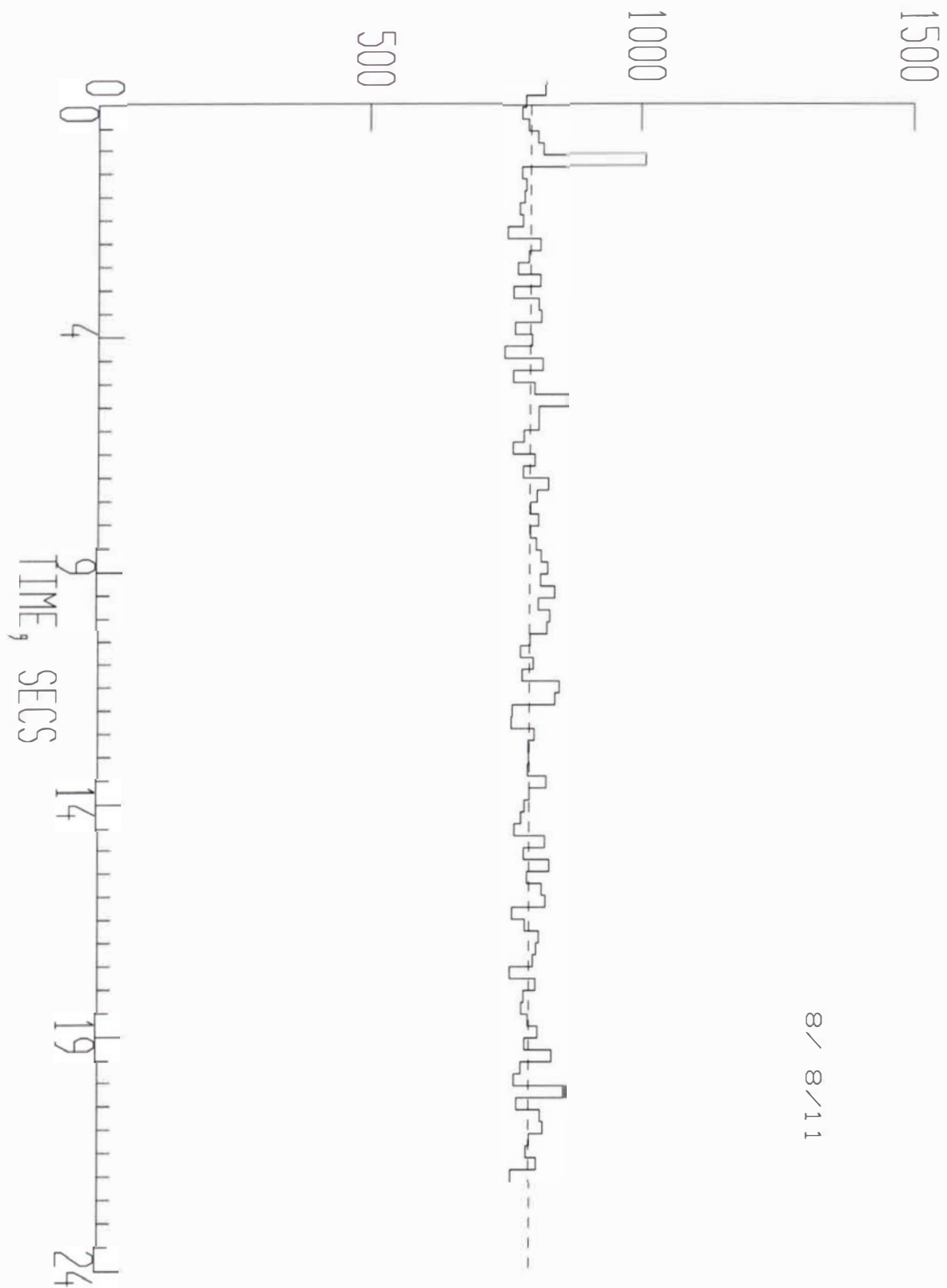
Due to the short, soft nature of the burst, and the proximity of the source to the Galactic plane (0.3 degrees) we suggest that this source may be a previously unknown Soft Gamma Repeater. Verification of this could come if a second burst is seen or the XRT counterpart shows periodicity.

Burst Advocate for this burst is V. D'Elia (delia AT asdc.asi.it). Please contact the BA by email if you require additional information regarding Swift followup of this burst. In extremely urgent cases, after trying the Burst Advocate, you can contact the Swift PI by phone (see Swift TOO web site for information: <http://www.swift.psu.edu/too.html>.)

SWIFT 07/08/11 71866.375

25- 100 keV

COUNTS/0.256 S



A

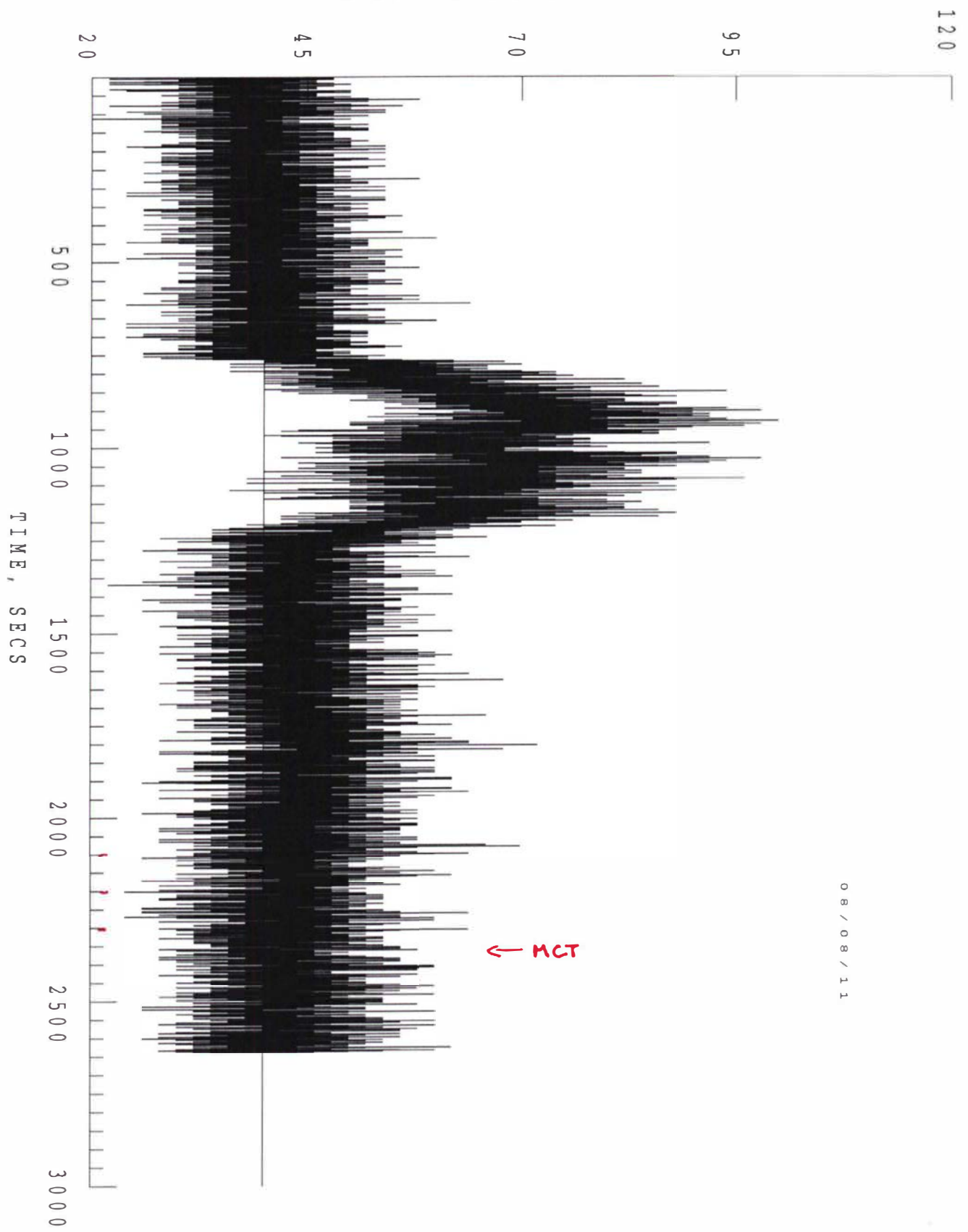
MS01

07/08/11

70524.416

50 - 3000 keV

COUNTS/0.250 S



08/08/11

From williams@gammaburst.ssl.berkeley.edu Fri Aug 12 23:03:10 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Fri, 12 Aug 2011 23:02:23 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for SWIFT 20110807_71866
X-Ucb-Scan-Signature: 126ebac4b5c74c54ca0baae6f01f9f6f90962330
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.812'
X-Ucb-Notice: This message has been processed by a spam tagging system.

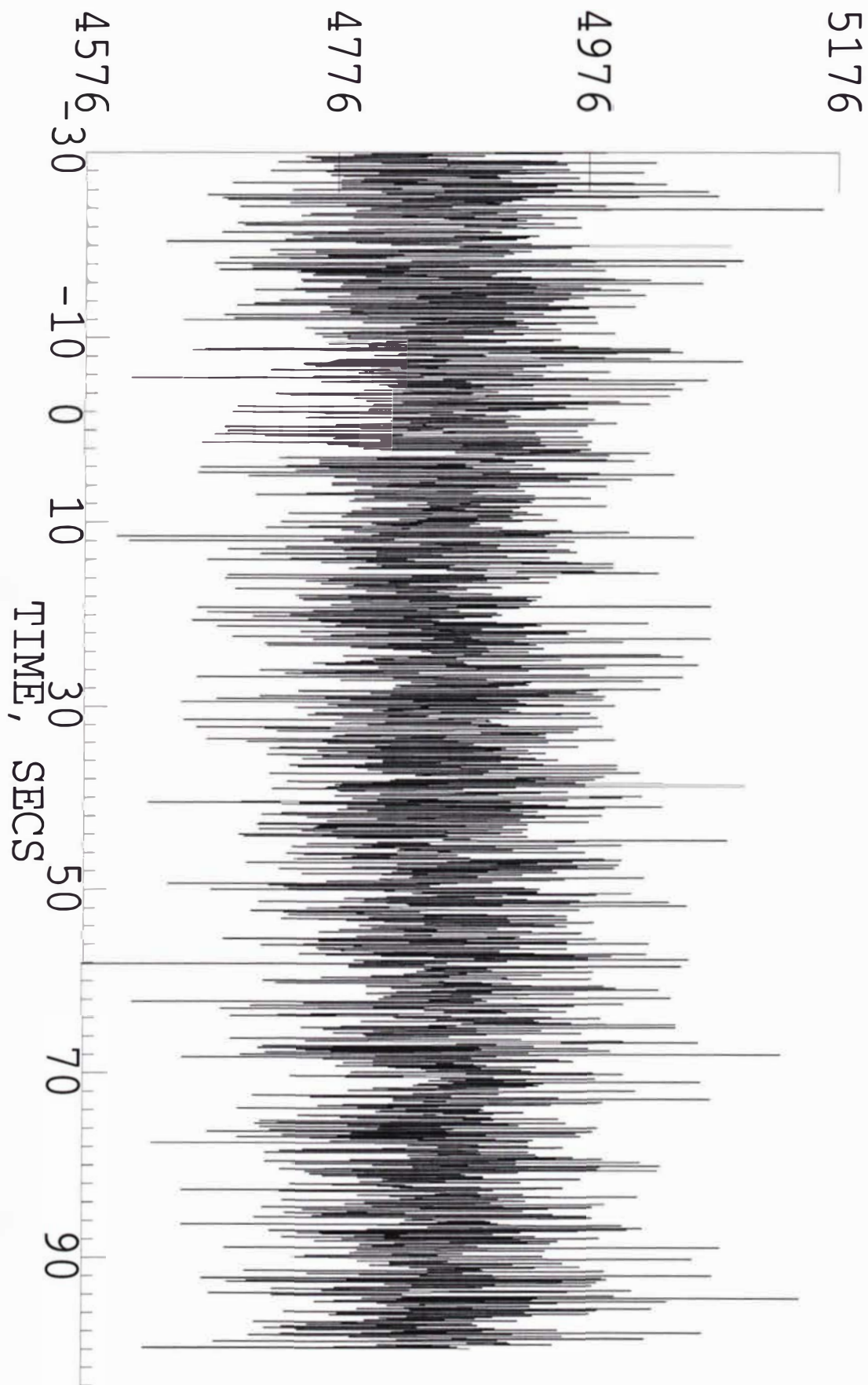
HESSI 25 to 150 keV Counts
Created 12-Aug-2011 23:02:42.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

INTEGRAL 07/08/11 71866.001 19:57:46.0

A

100-10000 keV

COUNTS/ .050 S



B

From gncirc@capella2.gsfc.nasa.gov Sun Aug 7 18:47:07 2011
X-Barracuda-Envelope-From: gncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gncirc@capella2.gsfc.nasa.gov>
Subject: Fermi GBM detection of a SGR-like burst
cc: khurley@ssl.berkeley.edu
Date: Sun, 7 Aug 2011 21:47:38 -0400 (EDT)
X-MIME-Autoconverted: from 8bit to quoted-printable by capella2.gsfc.nasa.gov id
X-Ucb-Scan-Signature: cc7f0d1a08be1d2a2762016c2eb13637c383b734
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.
X-MIME-Autoconverted: from quoted-printable to 8bit by scylla2.ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 12255
SUBJECT: Fermi GBM detection of a SGR-like burst
DATE: 11/08/08 01:47:36 GMT
FROM: Sylvain Guiriec at UAH <sylvain.guiriec@lpta.in2p3.fr>

Sylvain Guiriec (UAH), C. Kouveliotou (NASA/MSFC)
and A.J. van der Horst (USRA)
report on behalf of the Fermi/GBM Team:

83784

"The Fermi Gamma-ray Burst Monitor (GBM) triggered at 23:16:24.91 UT on 7 August 2011 (trigger 334451786 / 110807970) on an SGR-like event, possibly associated with the source identified earlier by the Swift team as a new SGR (D'Elia et al. GCN 12253).

The on-ground location, using the GBM trigger data, is RA = 279.0, Dec = -5.9 (J2000 degrees, equivalent to 18h36m, -5h52m), with an uncertainty of 6.3 degrees (radius, 1-sigma containment, statistical only; there is additionally a systematic error which is currently estimated to be 2 to 3 degrees). The angle from the LAT boresight is 72 degrees.

The duration of this event is ~0.1s with little emission beyond 100 keV, which is typical of SGR bursts. This location is consistent with the burst detected ~3.3 hours earlier with Swift (D'Elia et al. GCN 12253), strongly suggesting that the GBM burst may originate from the same source. However, since this is a very crowded region which includes 8 SGR sources already, we cannot exclude as the origin of this event any of the other SGRs, given the large GBM error box.

The results presented above are preliminary. Further follow up observations are strongly encouraged. "

MS01

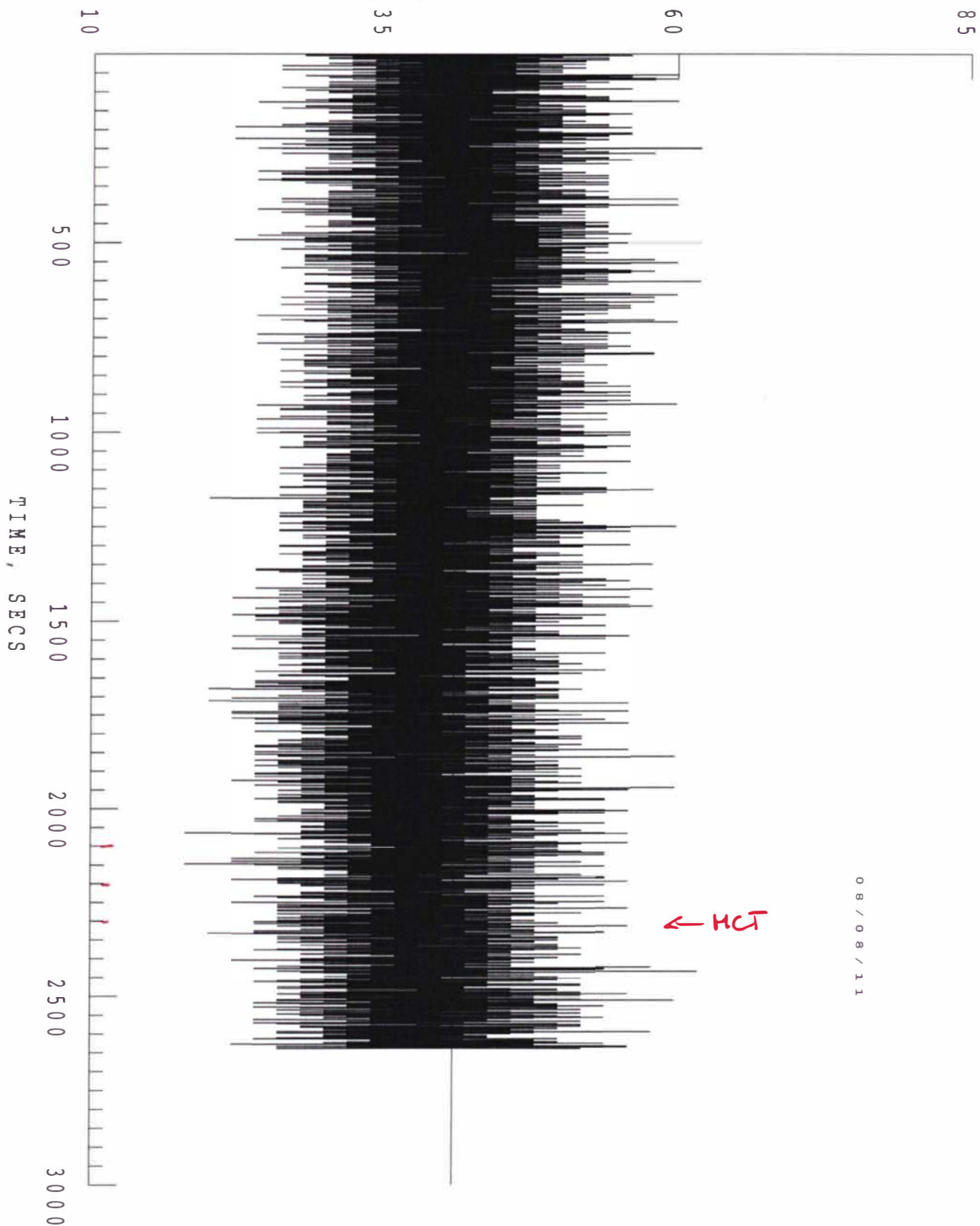
07/08/11

82464.216

B

50 - 3000 keV

COUNTS/0.250 S



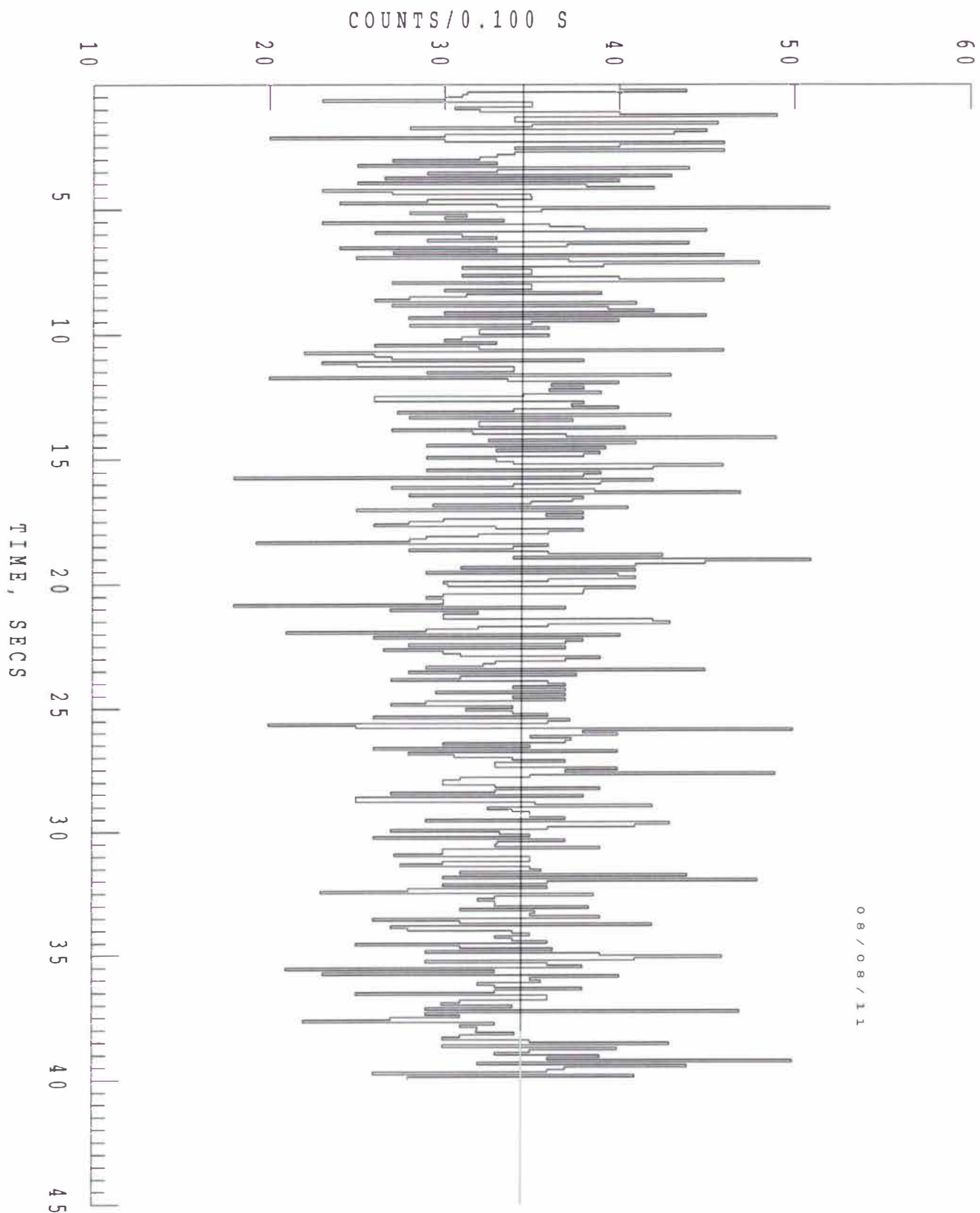
08/08/11

HESSI

07/08/11 83764.000 (FERMI_SGR_20110807_83784)

B

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110807_2316

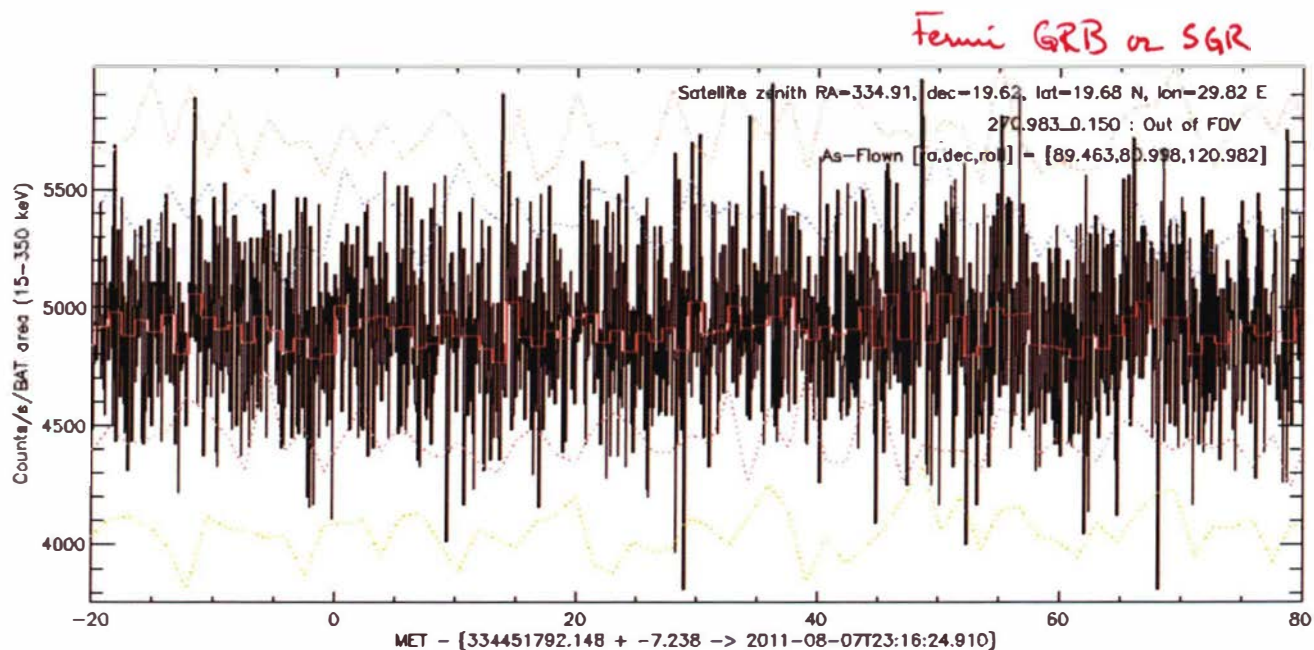
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 8 Aug 2011 02:35:36 -0600 (MDT)

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

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

/tmp/110807_2316.png



```
% /usr/local/bin/swinfo -o 334451792.148 -s 266.930 -9.810
Time(MET + UTCF -> UT):      334451792.148 + -7.238 -> 2011-08-07T23:16:24.910
Swift Zenith(RA,dec):        334.91, 19.62
Swift Location(lon,lat,alt):  29.82 E, 19.68 N, 578 km
Obs Sequence Number:         00458521008
Obs Target Name:              GRB 110801A
Obs Date and Times:           2011-08-07 23:04:54 - 23:33:50
Obs Pointing(ra,dec,roll):    89.463, 80.998, 120.98
266.930_-9.810_imageloc (boresight_dist, angle): (109, 152)
266.930_-9.810_exposure (cm^2 cos adjusted): 0
266.930_-9.810_altitude: 40 (up)
```

```
% /usr/local/bin/swinfo -o 334451792.148 -s 270.983_0.150
Time(MET + UTCF -> UT):      334451792.148 + -7.238 -> 2011-08-07T23:16:24.910
Swift Zenith(RA,dec):        334.91, 19.62
Swift Location(lon,lat,alt):  29.82 E, 19.68 N, 578 km
Obs Sequence Number:         00458521008
Obs Target Name:              GRB 110801A
Obs Date and Times:           2011-08-07 23:04:54 - 23:33:50
Obs Pointing(ra,dec,roll):    89.463, 80.998, 120.98
270.983_0.150_imageloc (boresight_dist, angle): (99, 147)
270.983_0.150_exposure (cm^2 cos adjusted): 0
270.983_0.150_altitude: 48 (up)
```

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

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

/tmp/110807_2316.png Content-Type: image/png

Content-Encoding: base64

/tmp/110807_2316_bat64ms_ipn

/tmp/110807_2316_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

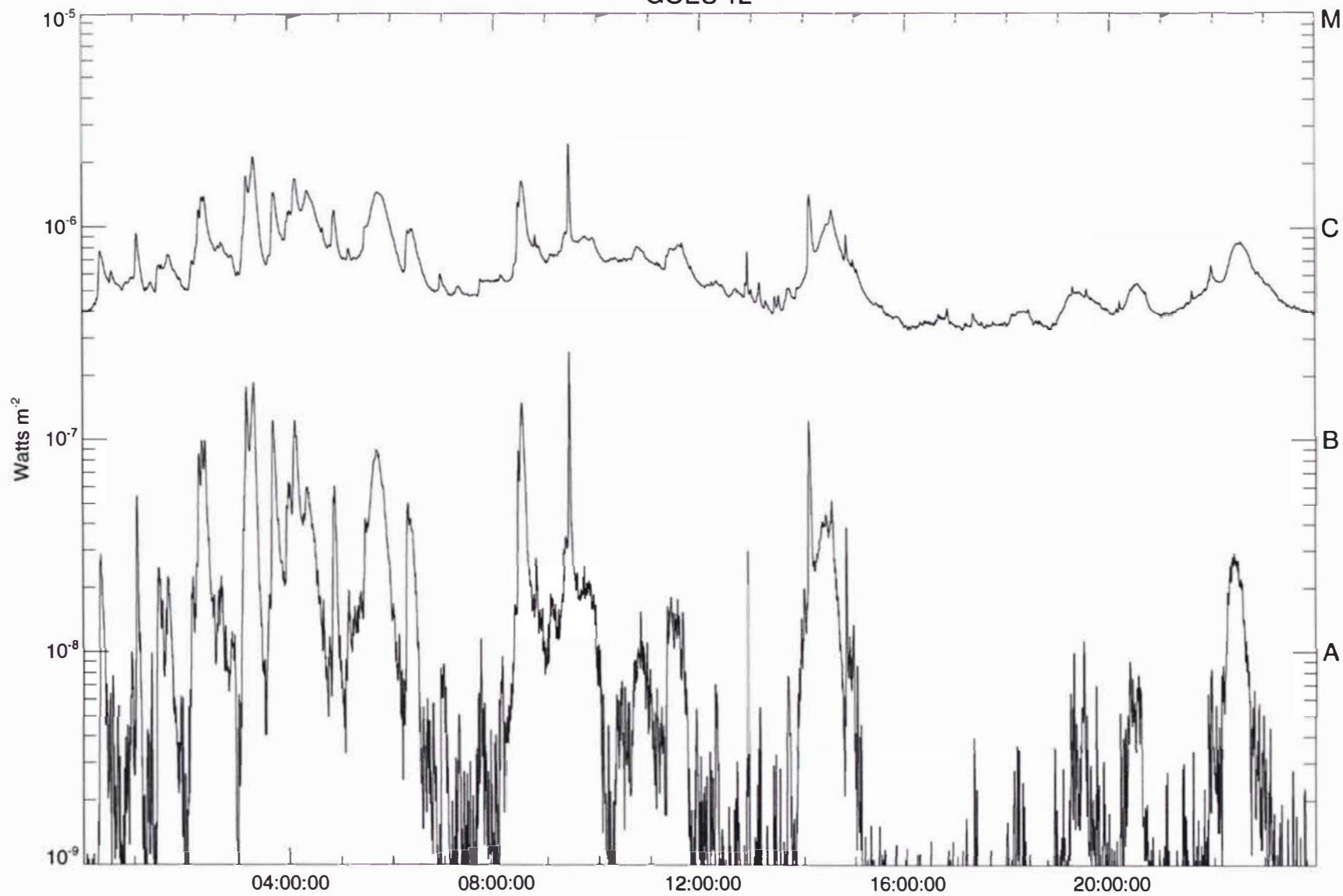
Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

GOES 12



Data Start: 11/08/07, 0000:09

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 11/08/10, 0832

Sample average = 10

A

From vxw@capella2.gsfc.nasa.gov Sun Aug 7 23:22:50 2011
 X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
 Date: Mon, 8 Aug 2011 02:23:26 -0400
 From: Bacodine <vxw@capella2.gsfc.nasa.gov>
 To: khurley@ssl.berkeley.edu
 Subject: GCN/SWIFT BAT LIGHTCURVE
 X-Ucb-Scan-Signature: 28ee0a07043fa494570fc37bc855d2a023edabef
 X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
 X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE

NOTICE_DATE: Mon 08 Aug 11 06:23:05 UT

NOTICE_TYPE: Swift-BAT GRB Lightcurve

TRIGGER_NUM: 458918, Seg Num: 0

GRB_RA: 57.264d {+03h 49m 03s} (J2000),
 57.360d {+03h 49m 26s} (current),
 56.851d {+03h 47m 24s} (1950)

GRB_DEC: -44.179d {-44d 10' 42"} (J2000),
 -44.144d {-44d 08' 36"} (current),
 -44.330d {-44d 19' 47"} (1950)

GRB_DATE: 15781 TJD; 220 DOY; 11/08/08

GRB_TIME: 22734.20 SOD {06:18:54.20} UT

TRIGGER_INDEX: 477

GRB_PHI: 170.26 [deg]

GRB_THETA: 29.28 [deg]

DELTA_TIME: -63.00 [sec]

TRIGGER_DUR: 8.192 [sec]

SOLN_STATUS: 0x3

RATE_SIGNIF: 10.00 [sigma]

AGE_SIGNIF: 7.19 [sigma]

URL: sw00458918000msb.lc

SUN_POSTN: 137.85d {+09h 11m 24s} +16.22d {+16d 13' 18"}
 SUN_DIST: 94.63 [deg] Sun_angle= 5.4 [hr] (West of Sun)

MOON_POSTN: 246.69d {+16h 26m 45s} -22.96d {-22d 57' 48"}
 MOON_DIST: 112.35 [deg]

MOON_ILLUM: 70 [%]

GAL_COORDS: 250.54, -50.69 [deg] galactic lon,lat of the burst (or transient)

ECL_COORDS: 35.47, -61.56 [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.

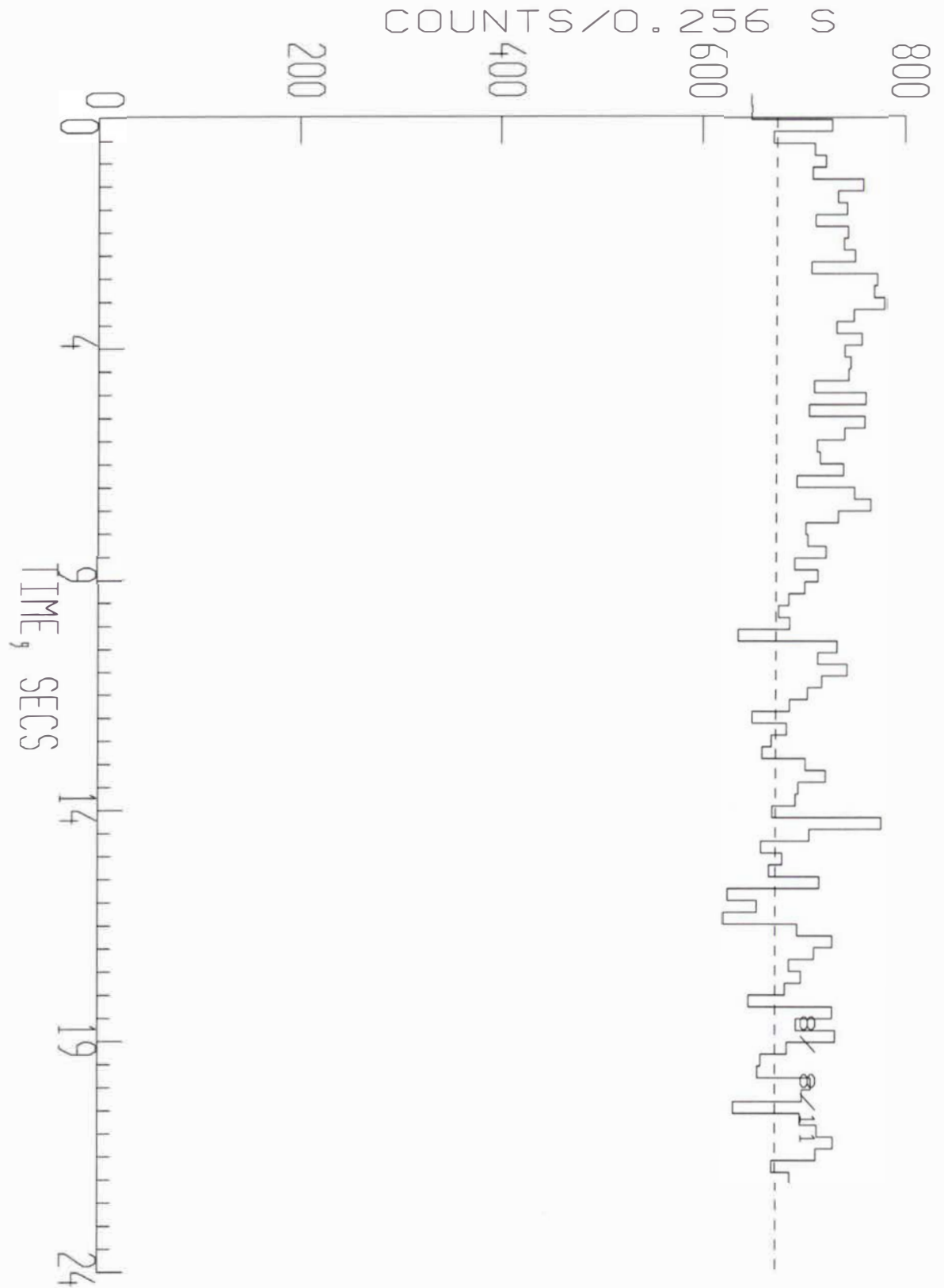
COMMENTS: This is a GRB.

COMMENTS: This trigger occurred at longitude,latitude = 62.92, -19.23 [deg]

48 s

 $3.3 \times 10^{-7} \text{ erg cm}^{-2}$ 0.4 phot/cm² s

SWIFT 08/08/11 22734.202
25- 100 keV



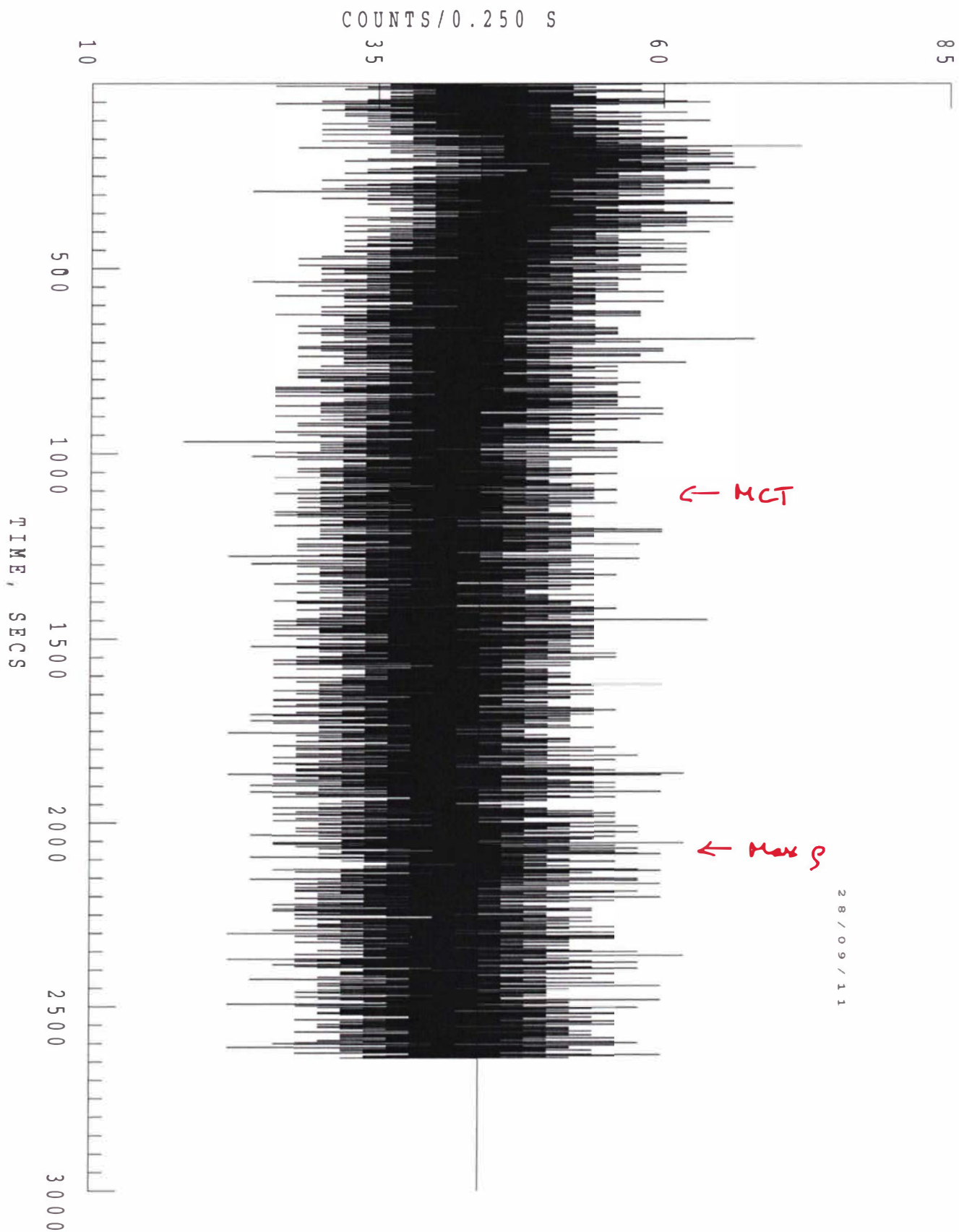
MS01

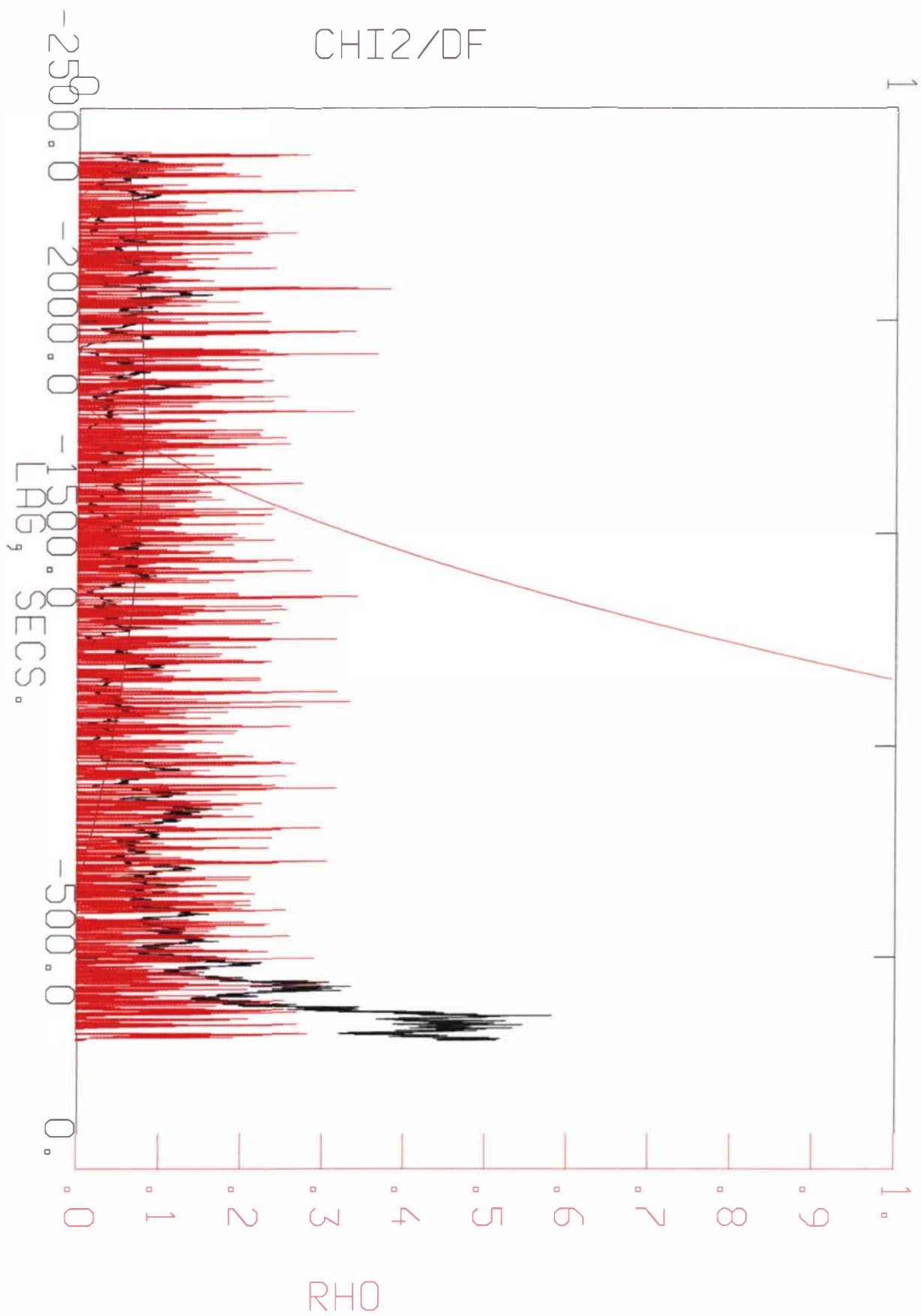
08/08/11

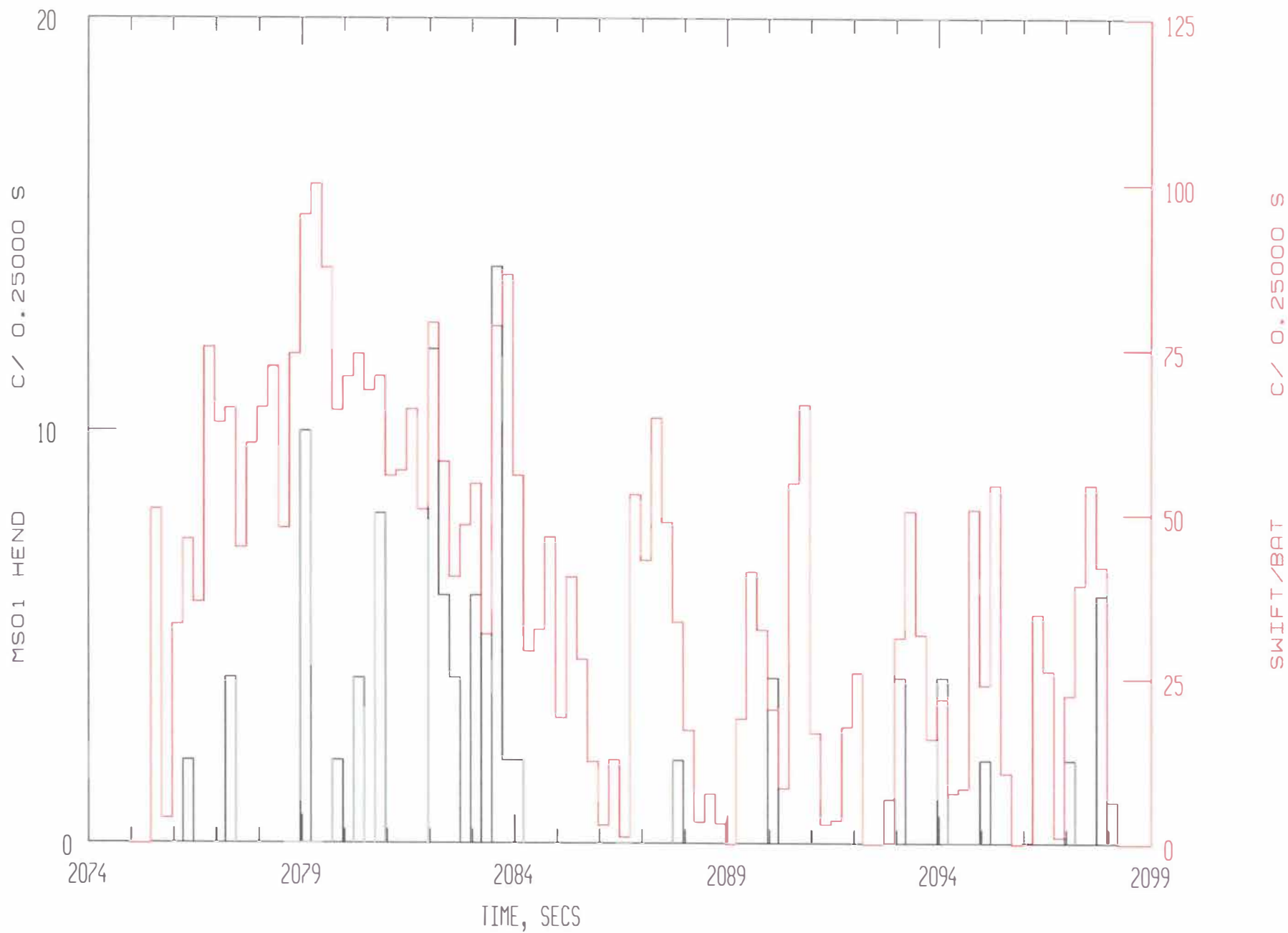
21383.794

A

50 - 3000 keV







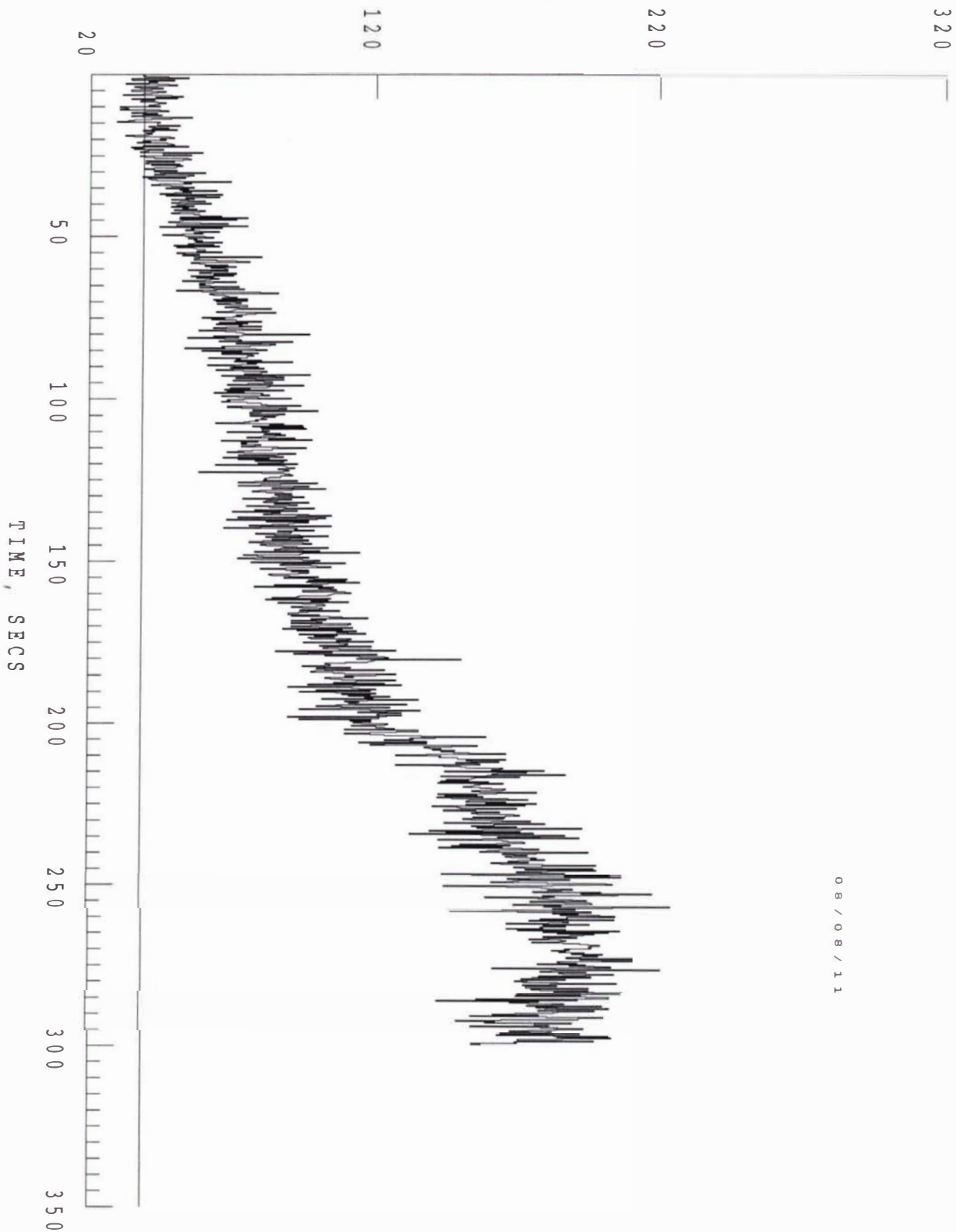
A

HESSI

08/08/11 22584.000 (SWIFT_20110808_22734)

25- 150 keV

COUNTS/0.250 S

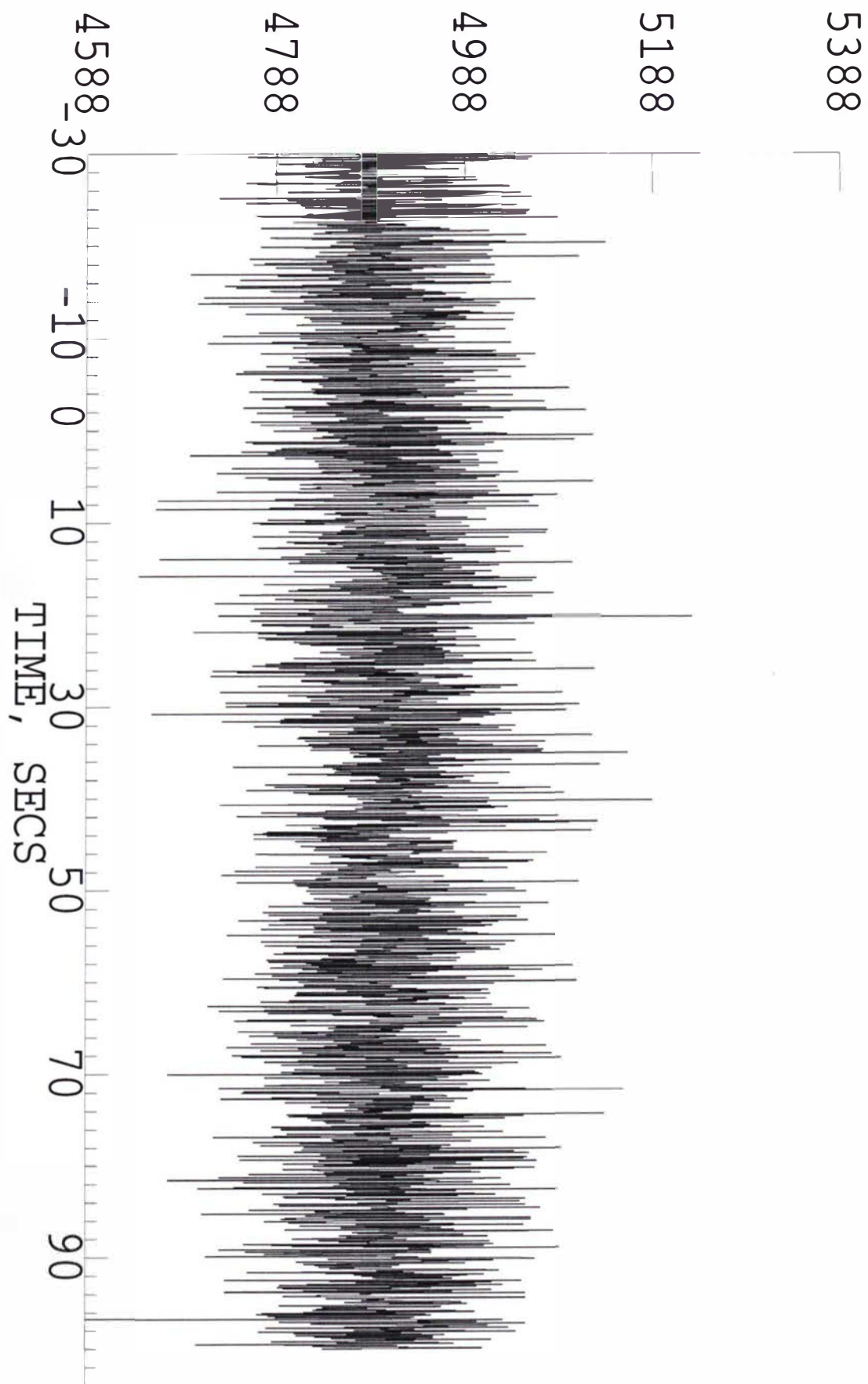


INTEGRAL 08/08/11 22734.023 06:18:54.0

A

100-10000 keV

COUNTS/ .050 S



Subject: [Ipn] BAT lightcurve for trigger at 110808_0859

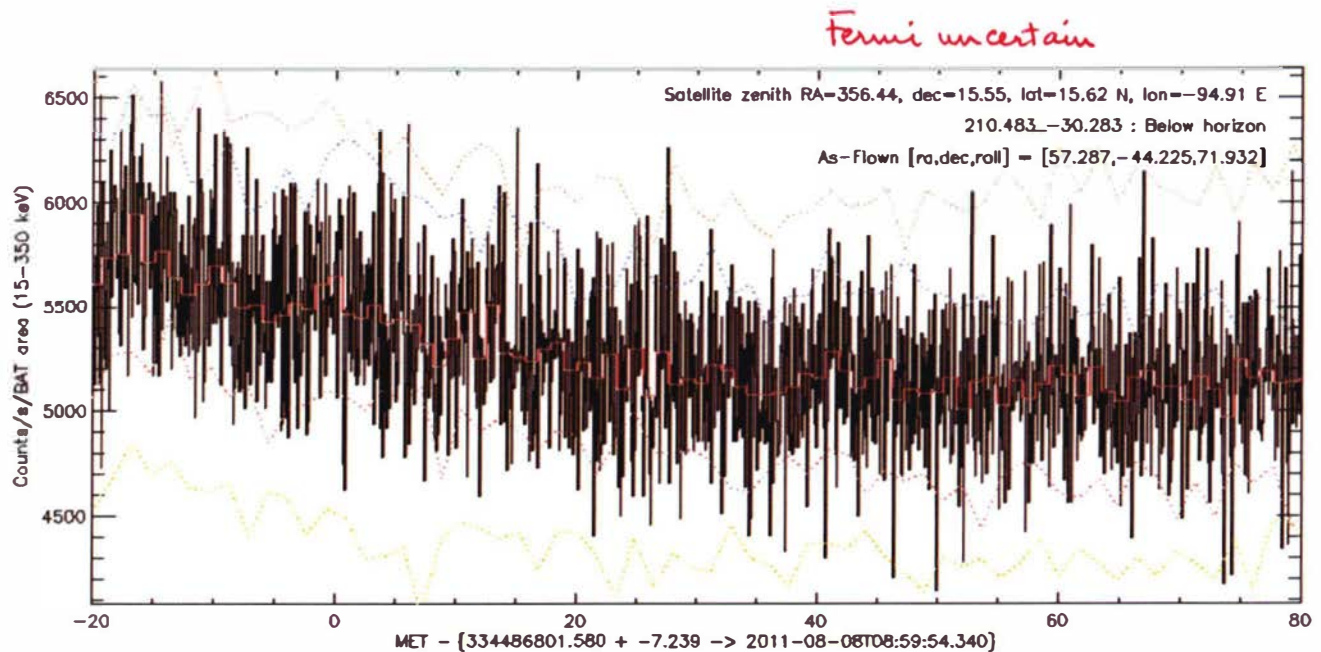
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 8 Aug 2011 13:37:56 -0600 (MDT)

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

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

/tmp/110808_0859.png



```
% /usr/local/bin/swinfo -o 334486801.579 -s 210.483 -30.283
Time(MET + UTCF -> UT):      334486801.580 + -7.239 -> 2011-08-08T08:59:54.340
Swift Zenith(RA,dec):        356.44, 15.55
Swift Location(lon,lat,alt):  -94.91 E, 15.62 N, 582 km
Obs Sequence Number:         00458918001
Obs Target Name:              GRB 110808A
Obs Date and Times:          2011-08-08 08:58:45 - 09:12:51
Obs Pointing(ra,dec,roll):    57.287, -44.225, 71.93
210.483-30.283_imageloc (boresight_dist, angle): (102, -5)
210.483-30.283_exposure (cm^2 cos adjusted): 0
210.483-30.283_altitude: -32 (down)
```

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

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

/tmp/110808_0859.png

Content-Type: image/png
Content-Encoding: base64

/tmp/110808_0859_bat64ms_ipn

/tmp/110808_0859_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

SUZAKU

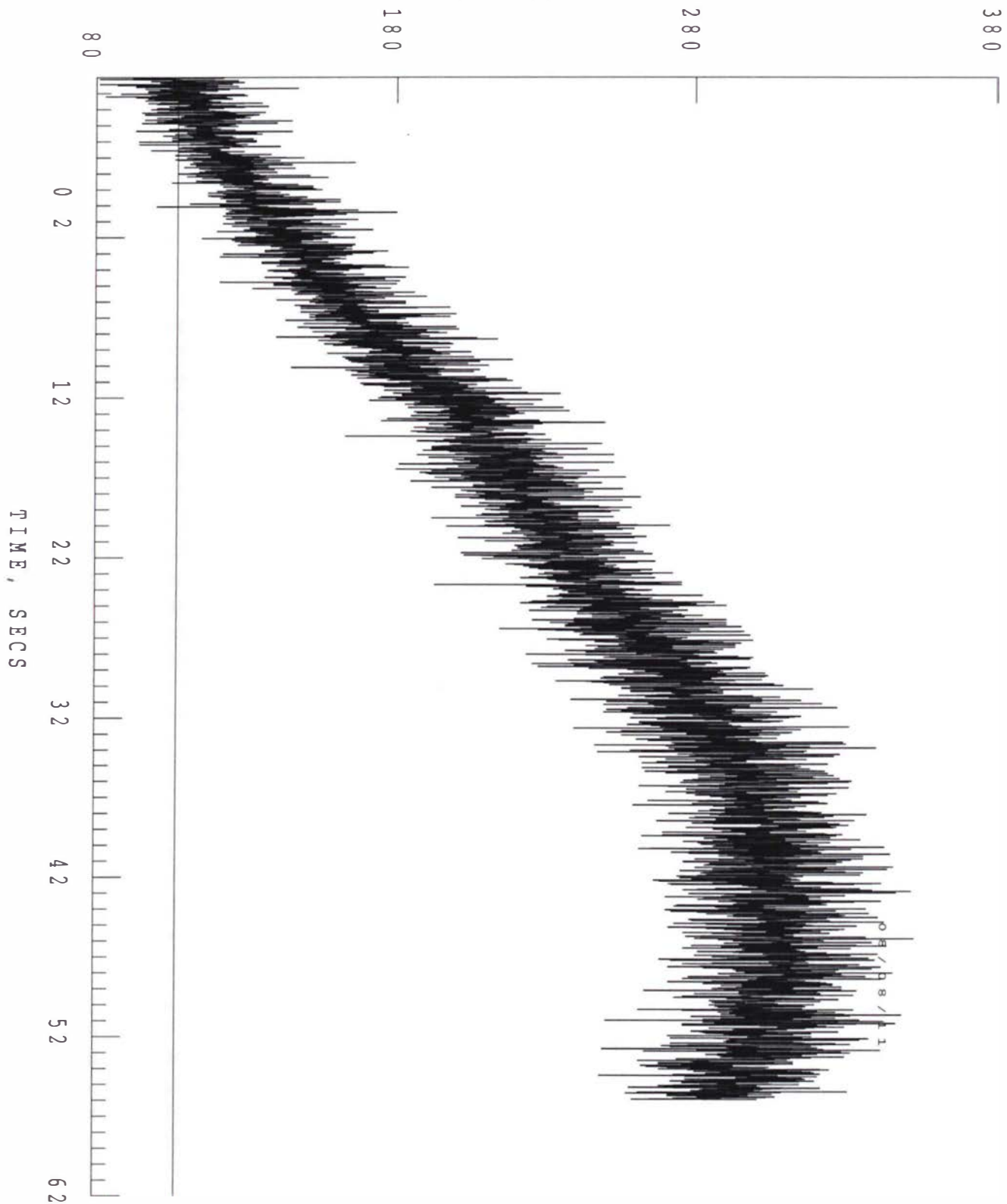
08/08/11

46745.116

50 - 240 keV

Not in Suzaku list

COUNTS/0.016 S

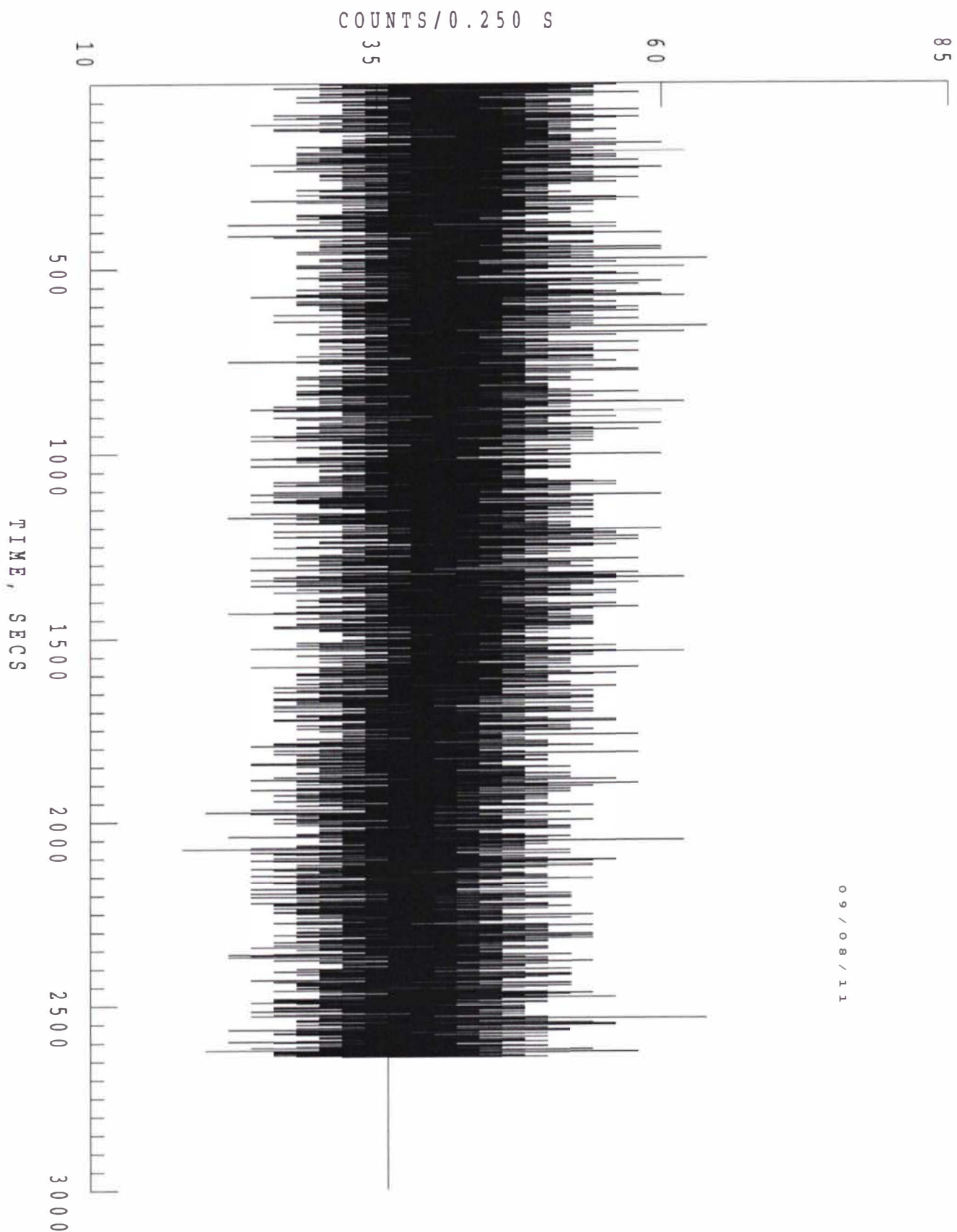


MS01

08/08/11

45383.389

50 - 3000 keV

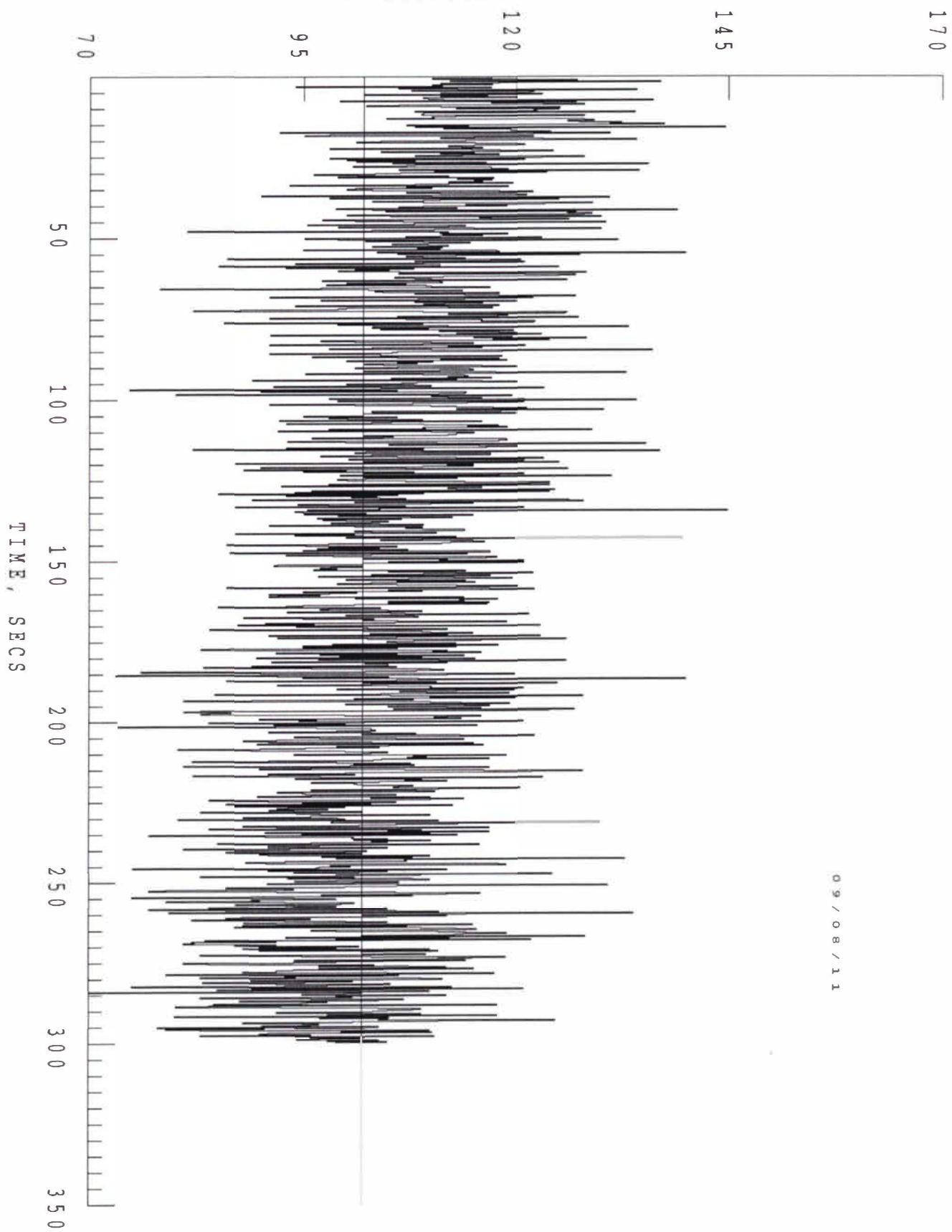


HESSI

08/08/11 46595.000 (SUZAKU_20110808_46745)

25- 150 keV

COUNTS/0.250 S



Date: Mar 27 2013 + Sep 20 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?

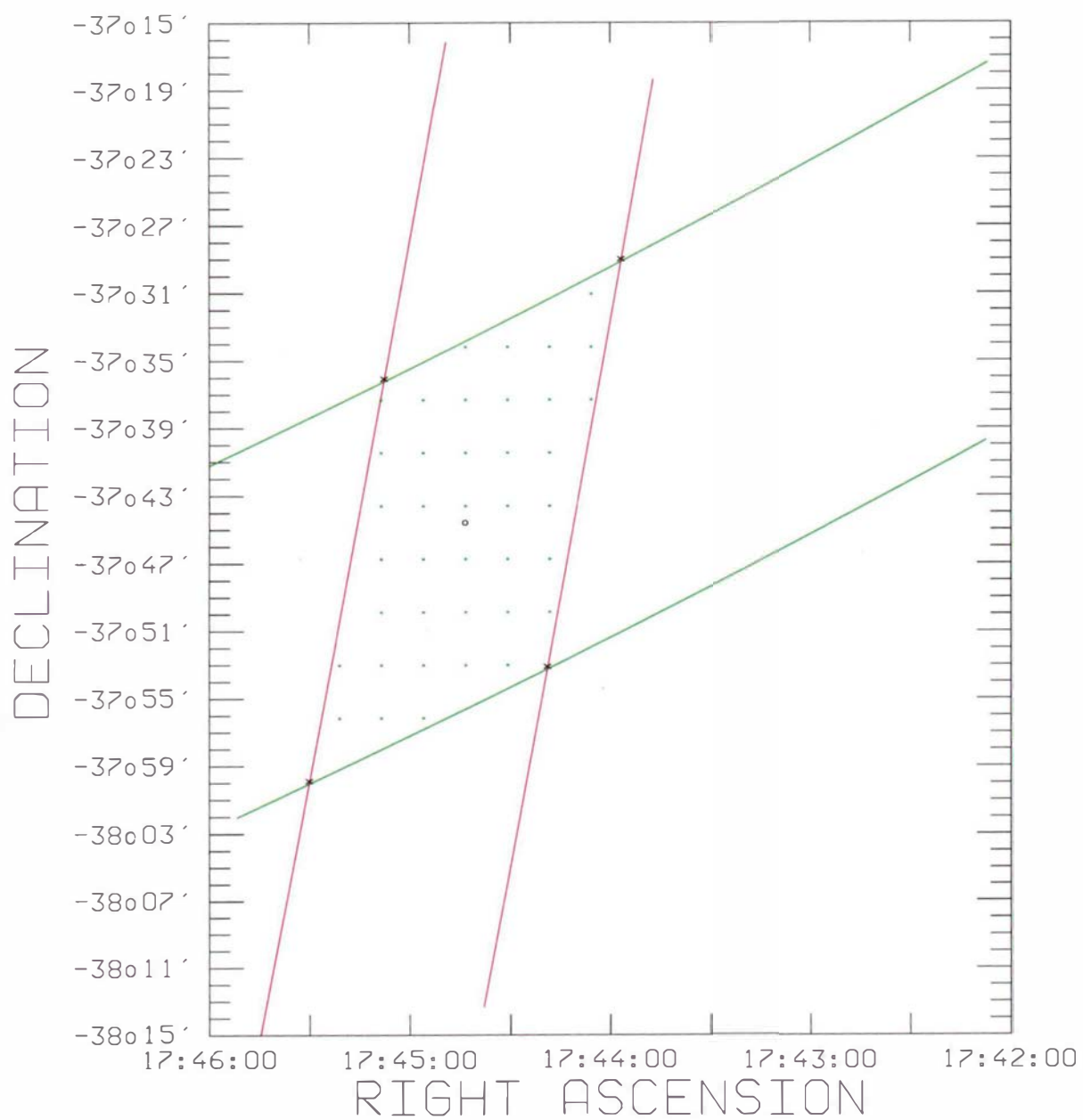
7. For INTEGRAL events

- ☐ 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/spiaccs-online/spiaccs-ipncl.pl>)

☒ ACCESS and MBL4 databases updated, with identical times?

GRB110808 ~56692 S

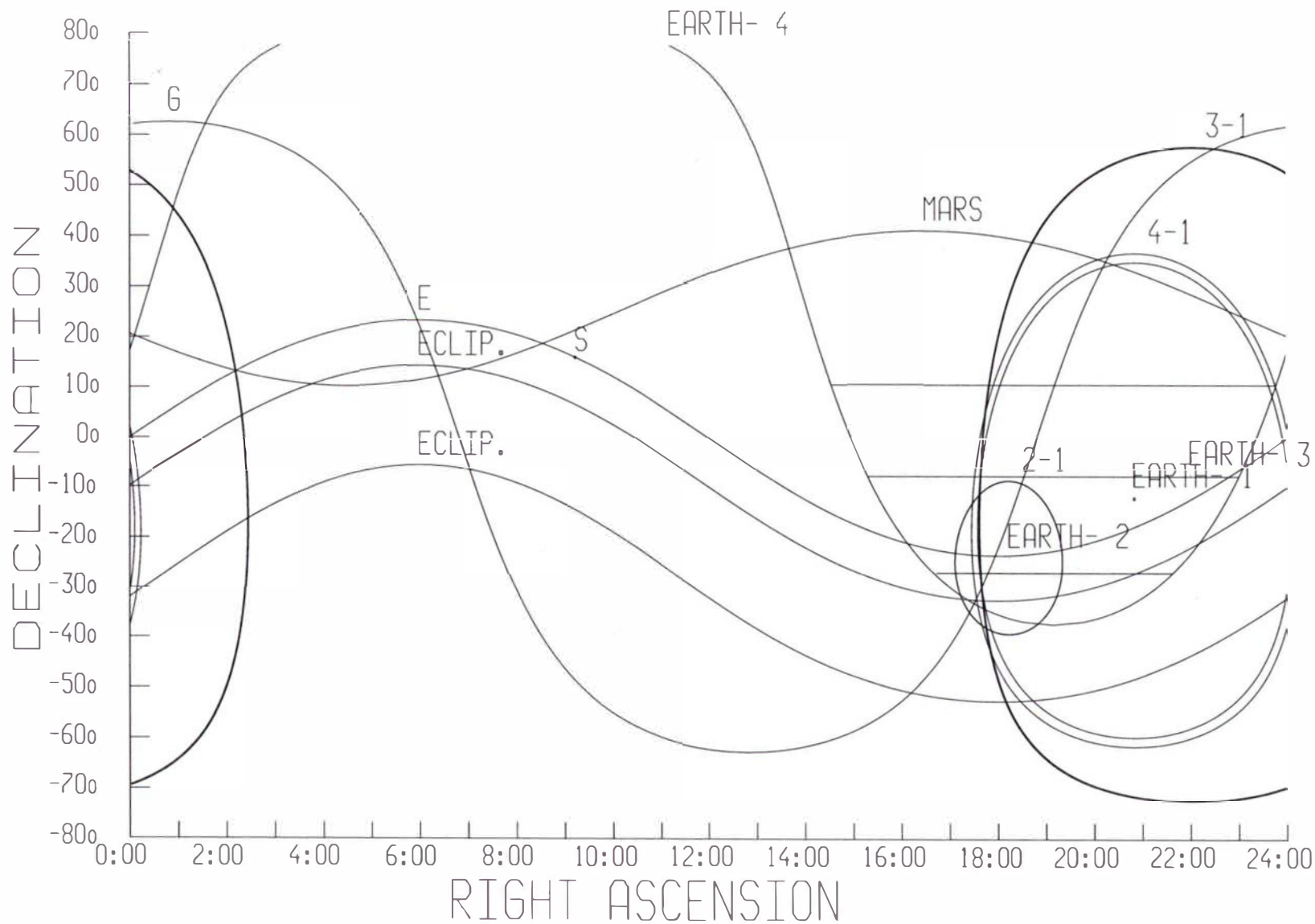
20/09/20

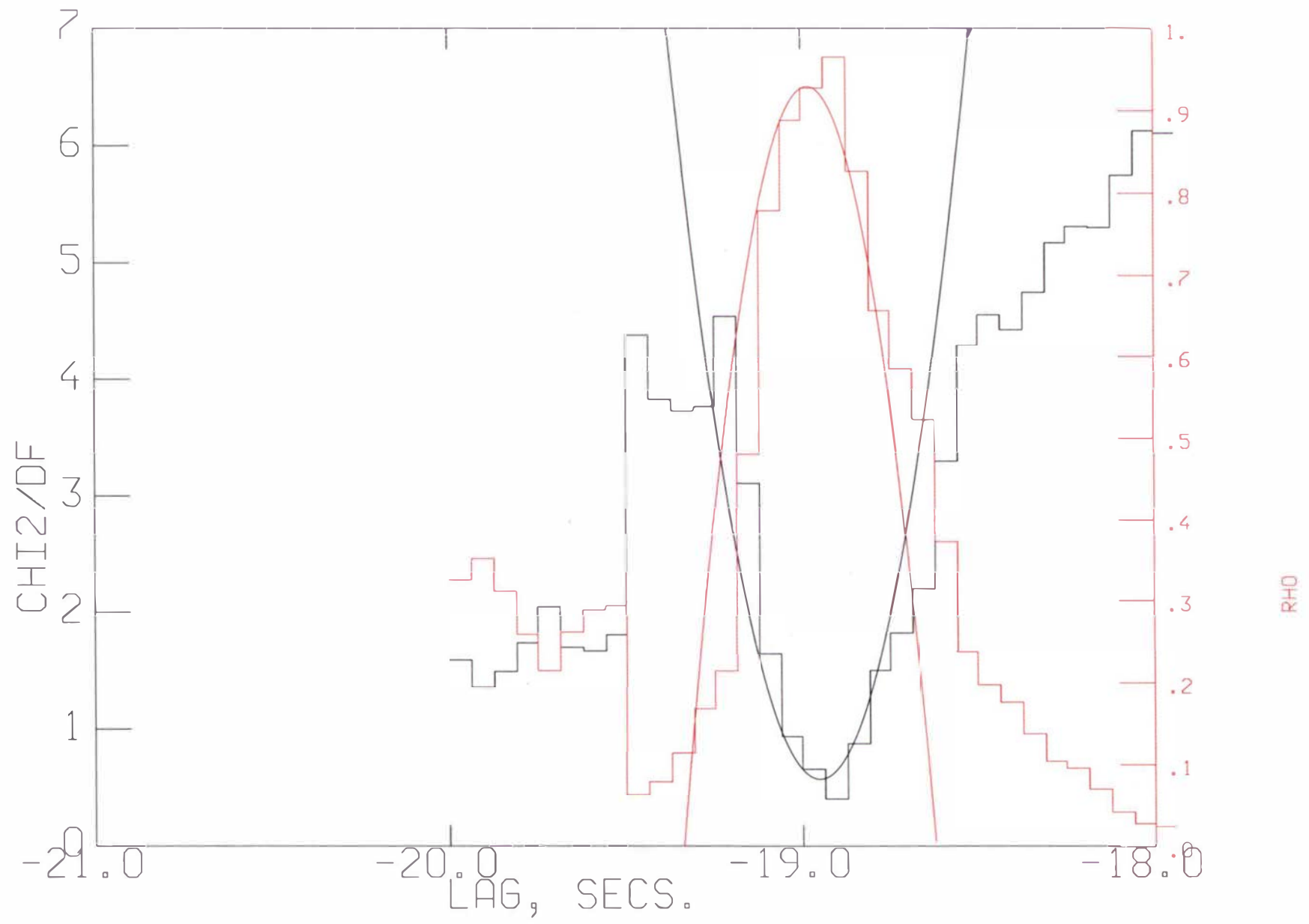


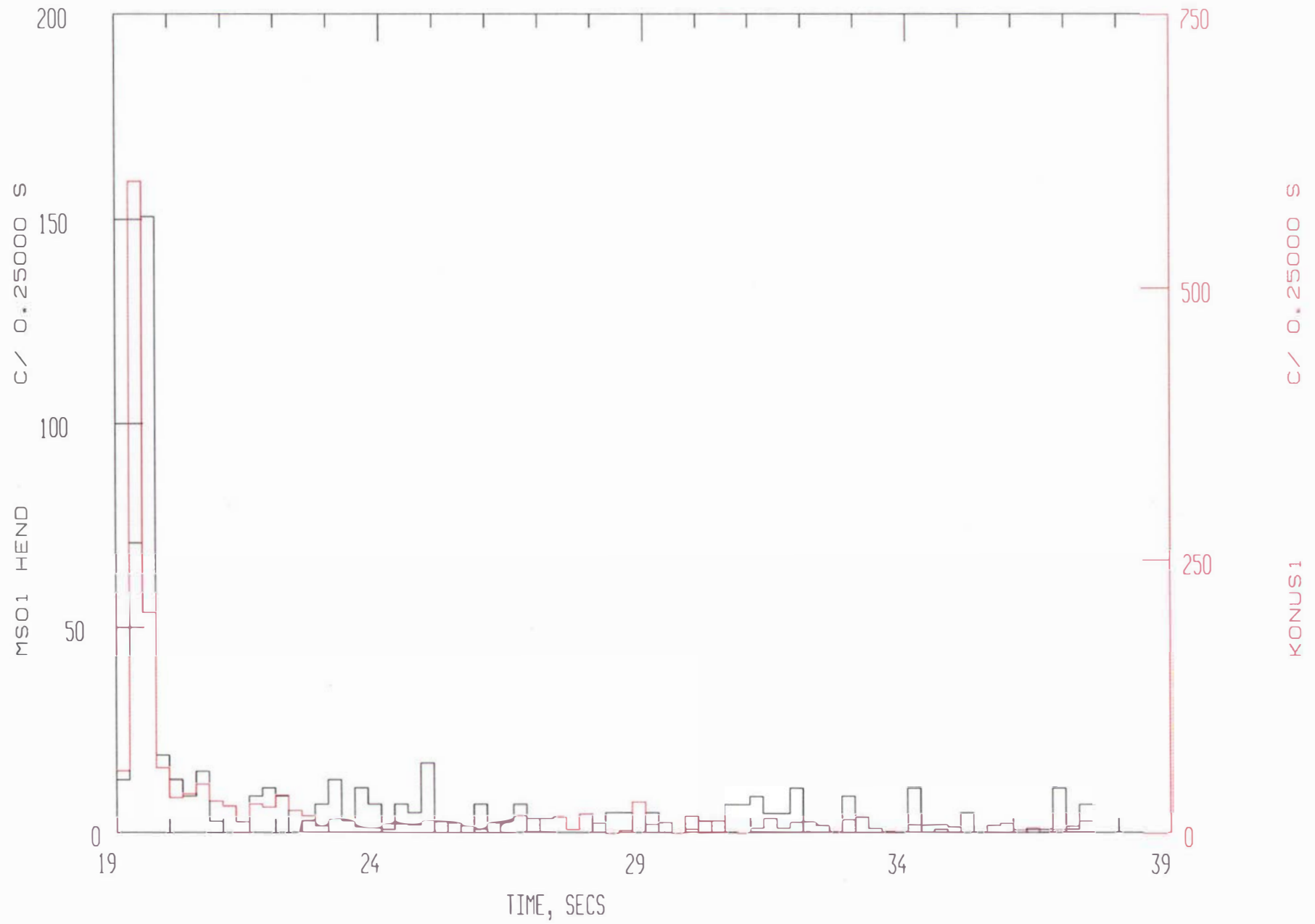
EVENT OF AUG 8, 2011 15:44

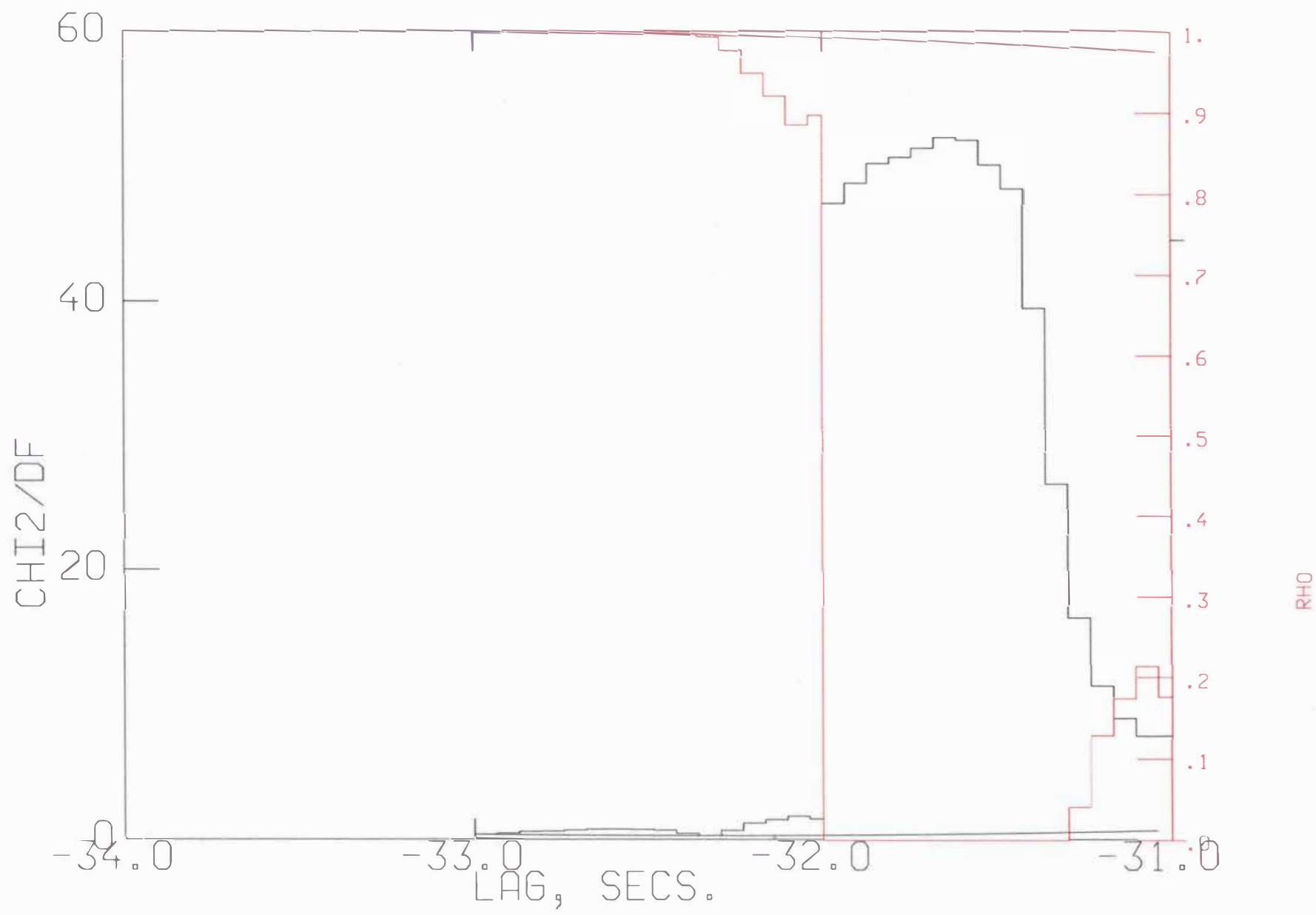
26/03/2013

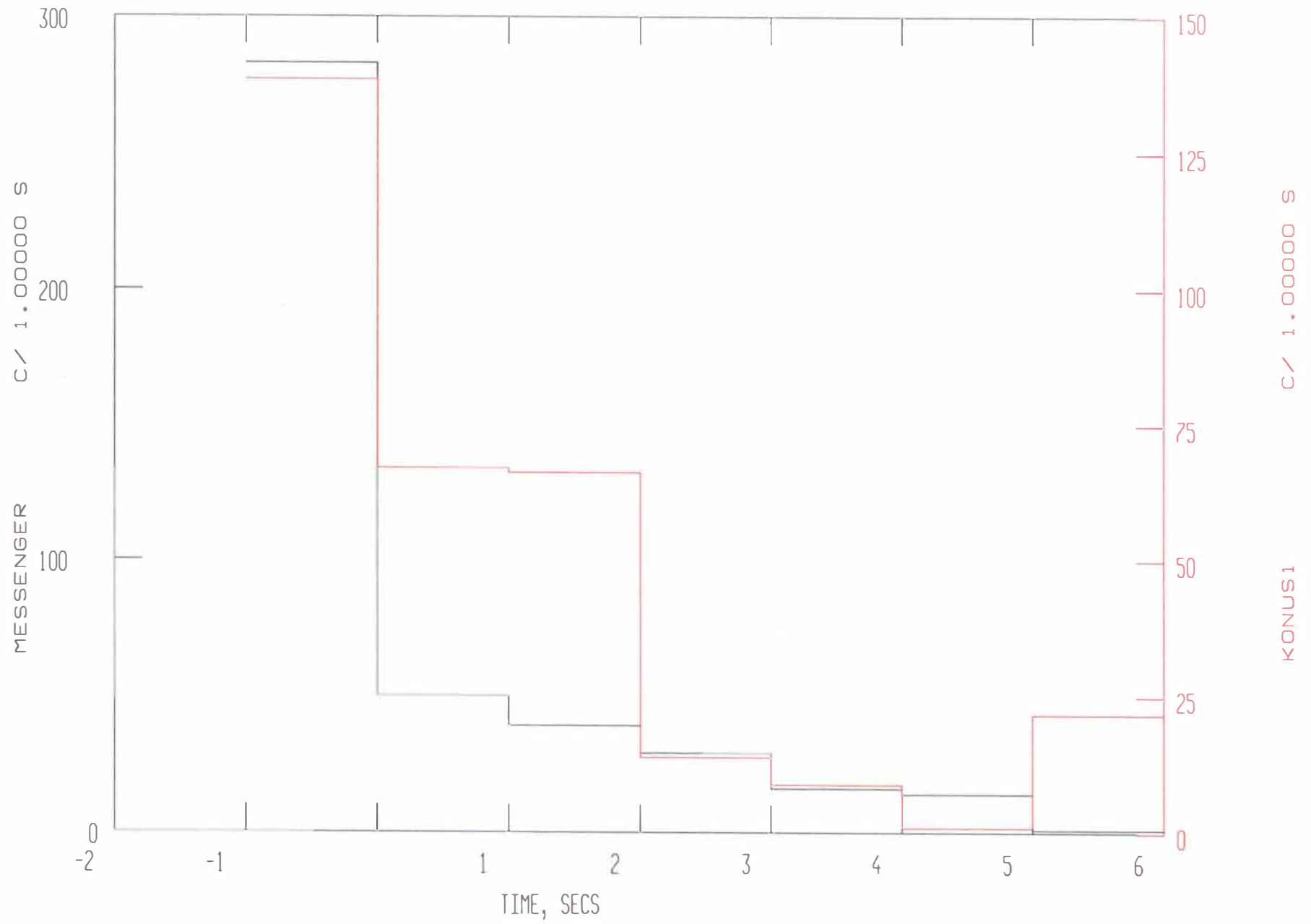
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN
 E=ECLIPTIC
 G=GALACTIC EQUATOR
 1 KONUS1 2 MO 3 MESSENGER 4 HESSI

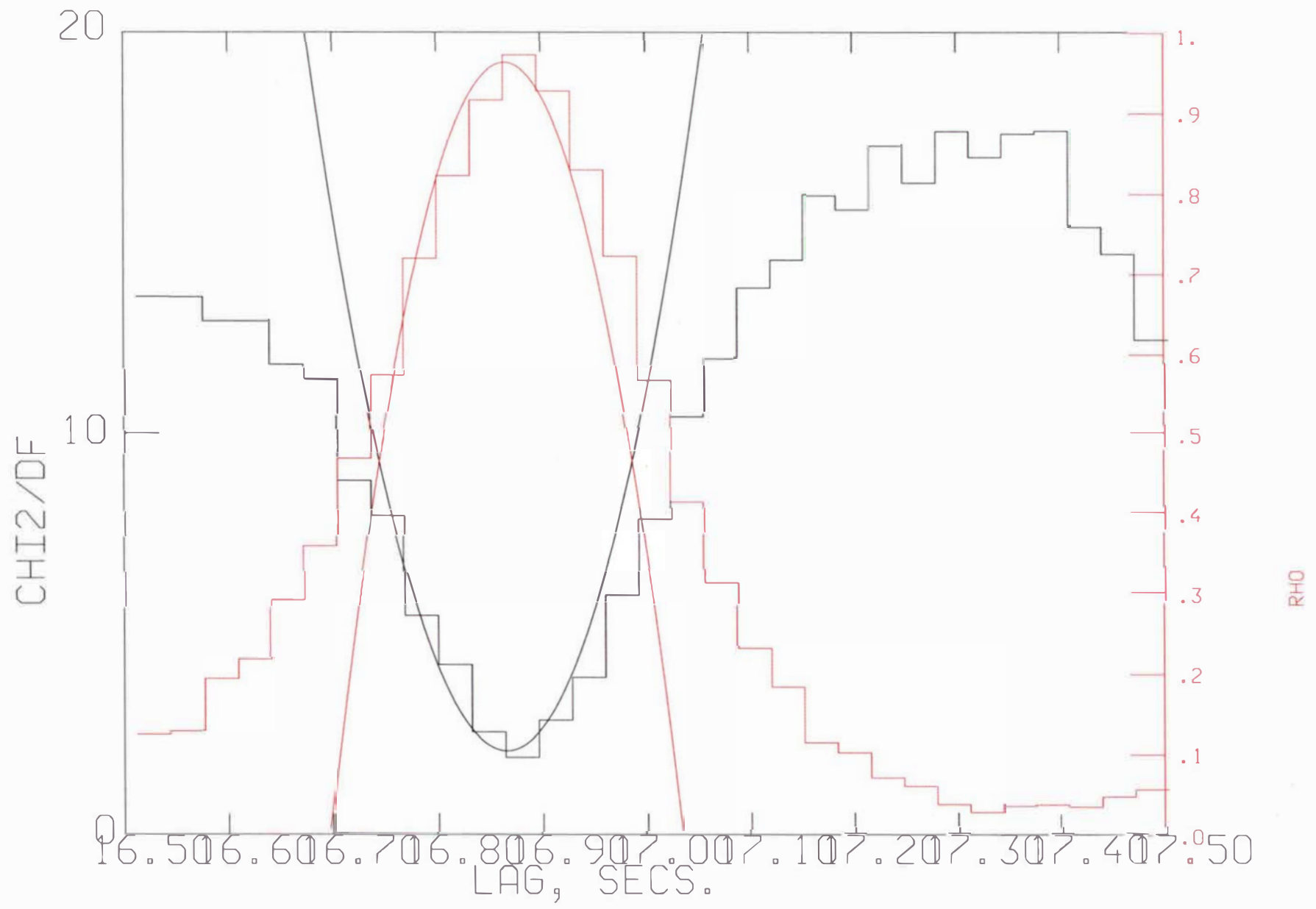












KONUS1

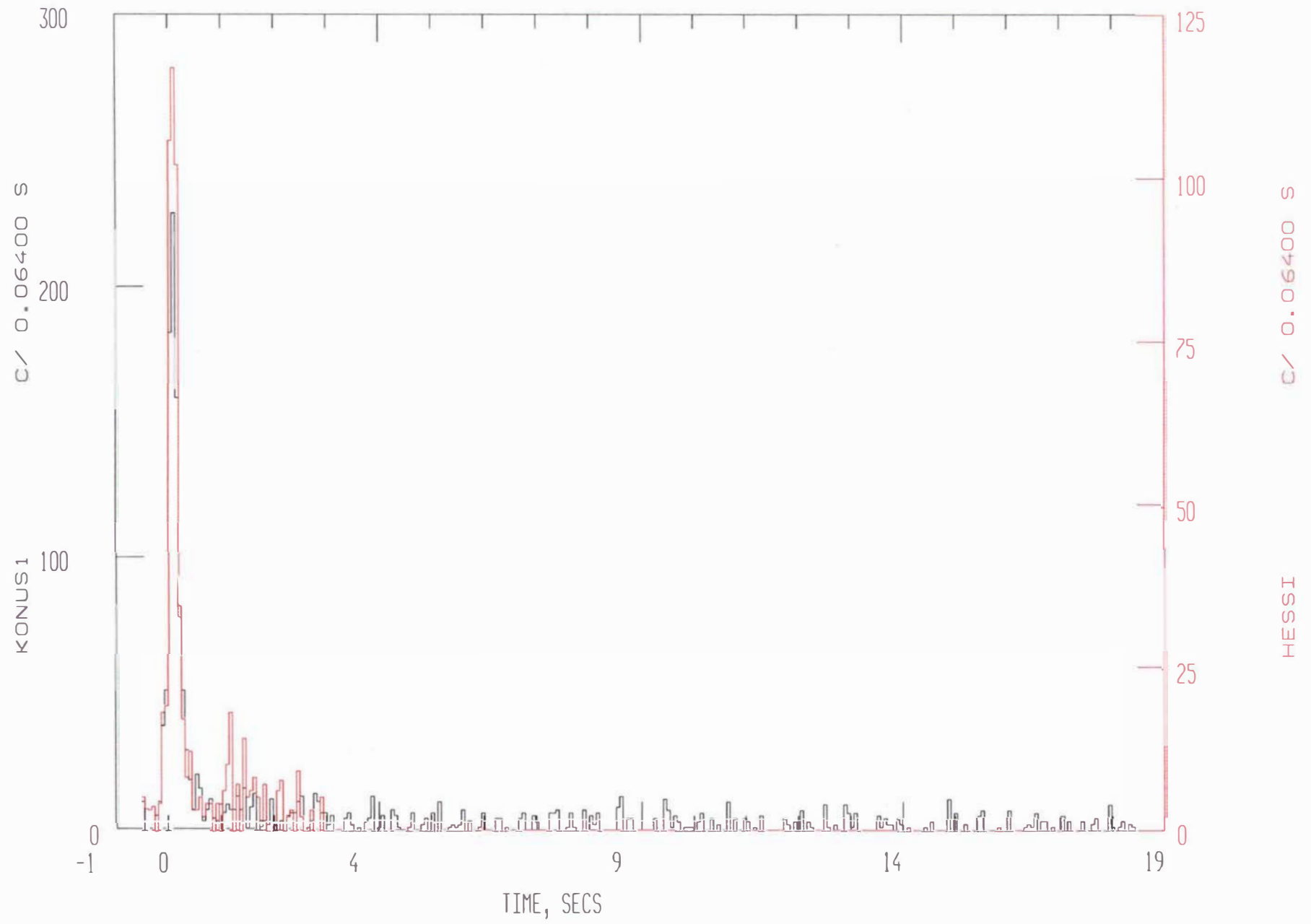
-HESSI

CORRELATION

08/08/11

56695.237

26/ 3/13



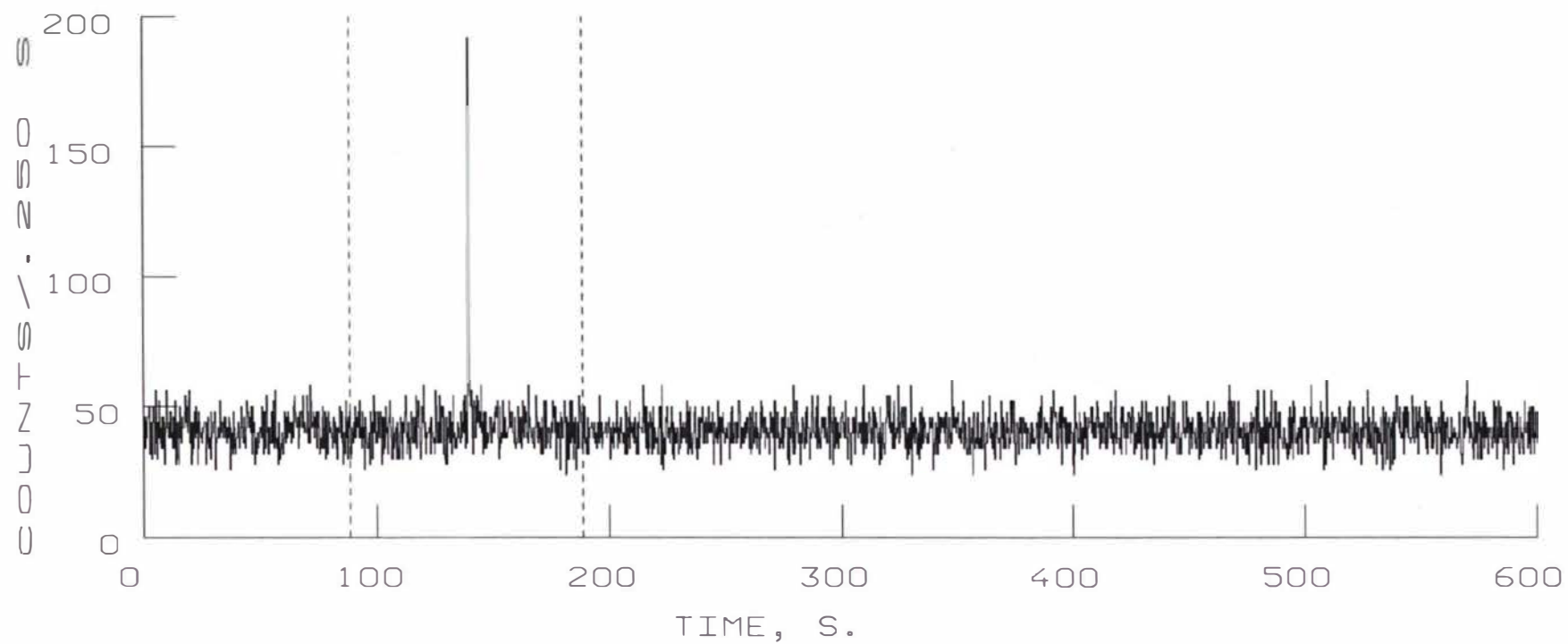
MS01 HEND

26/03/2013

08/08/2011 57563.188 s

50-3000 keV

N= 10 M= 4
>4.0 SIGMA FLUCTUATIONS



KONUS1

08/08/11

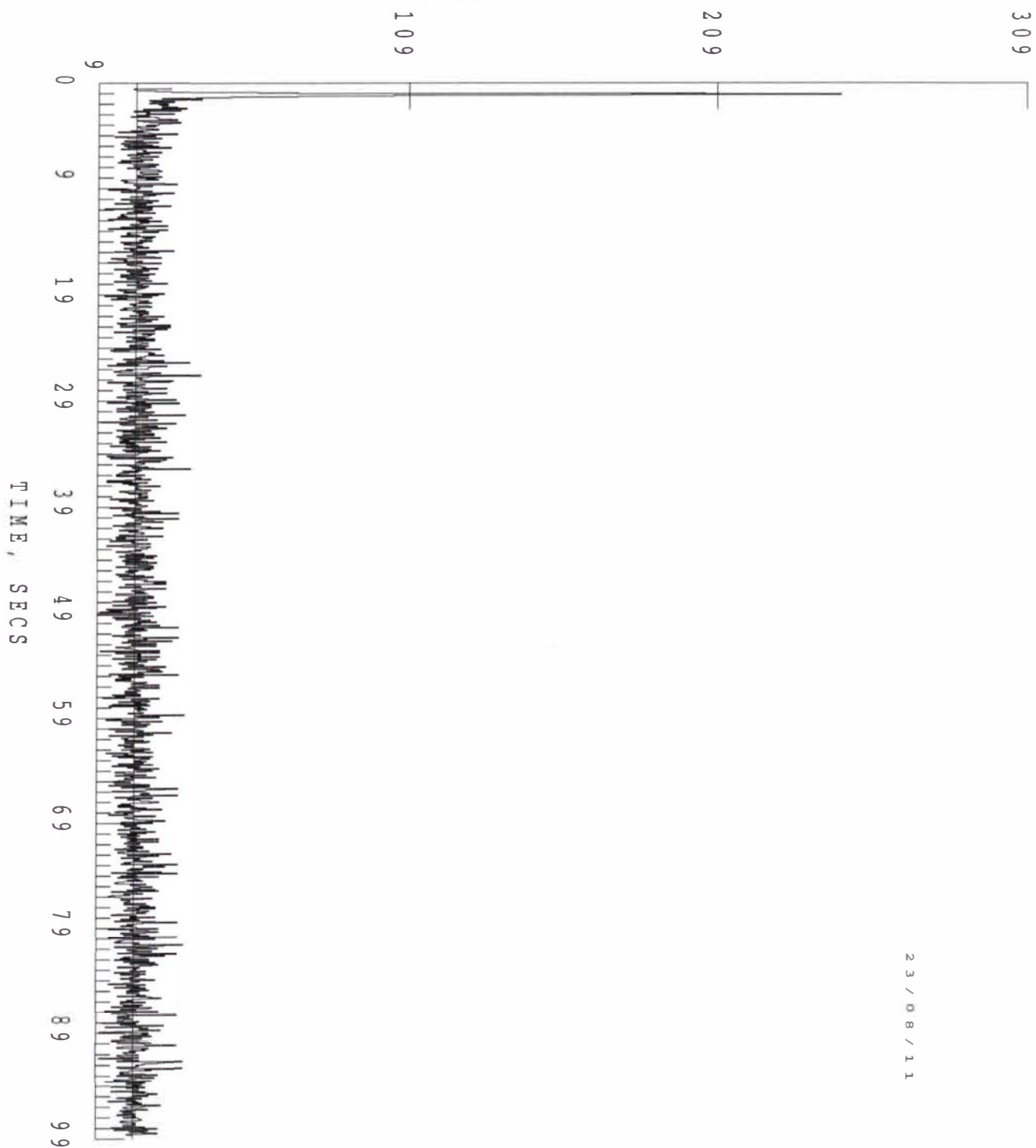
56695.237

15:44:55

B

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110808 56695

TRIGGER TIME: 08/08/11 DOY 220 Julian 2455783.15619 UT = 15.749 15:44:55 (56695.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

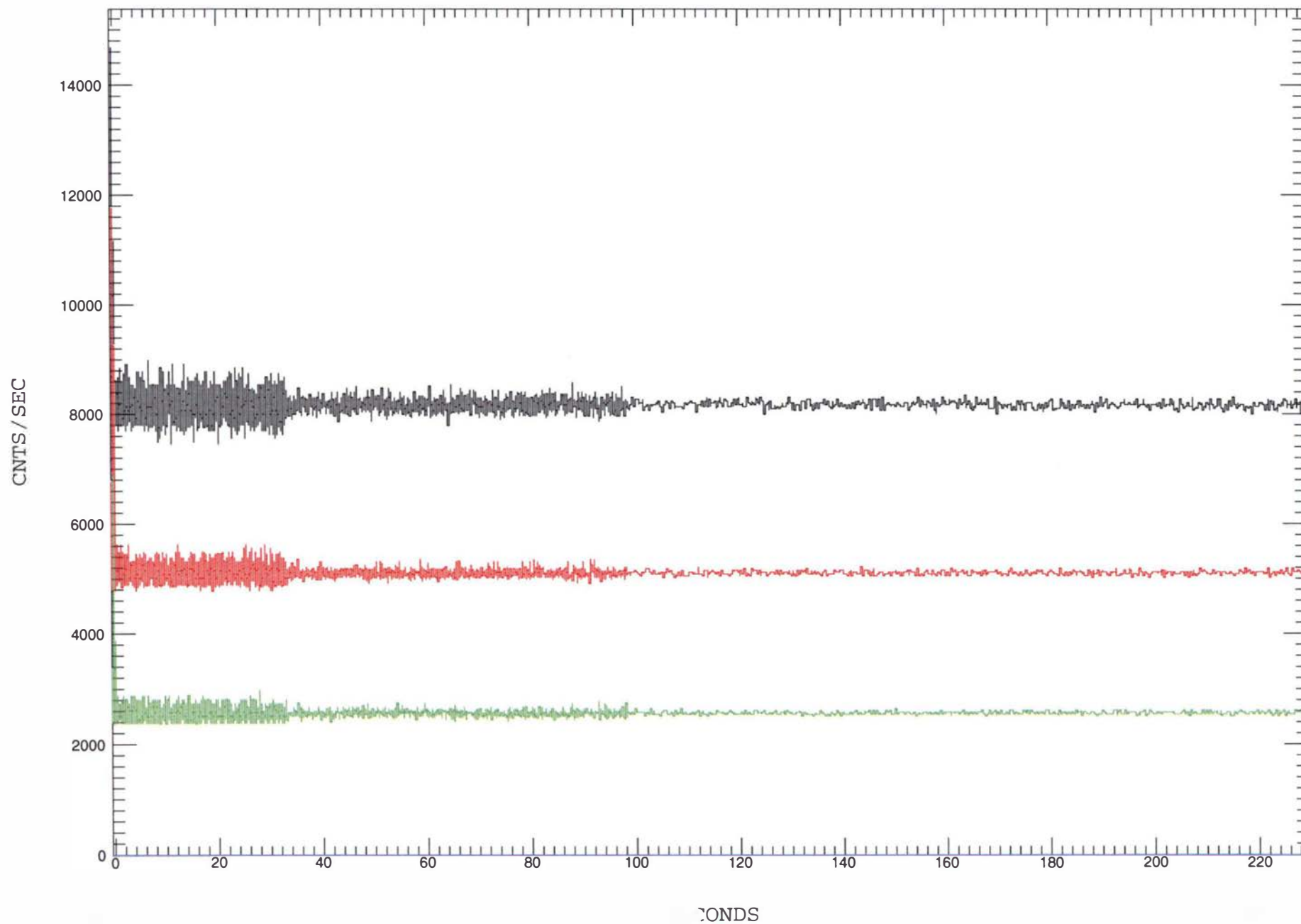
Chan 4 : [> 10 MeV]

Channel 1 + 7200

Channel 2 + 4800

Channel 3 + 2400

Channel 4 + 0

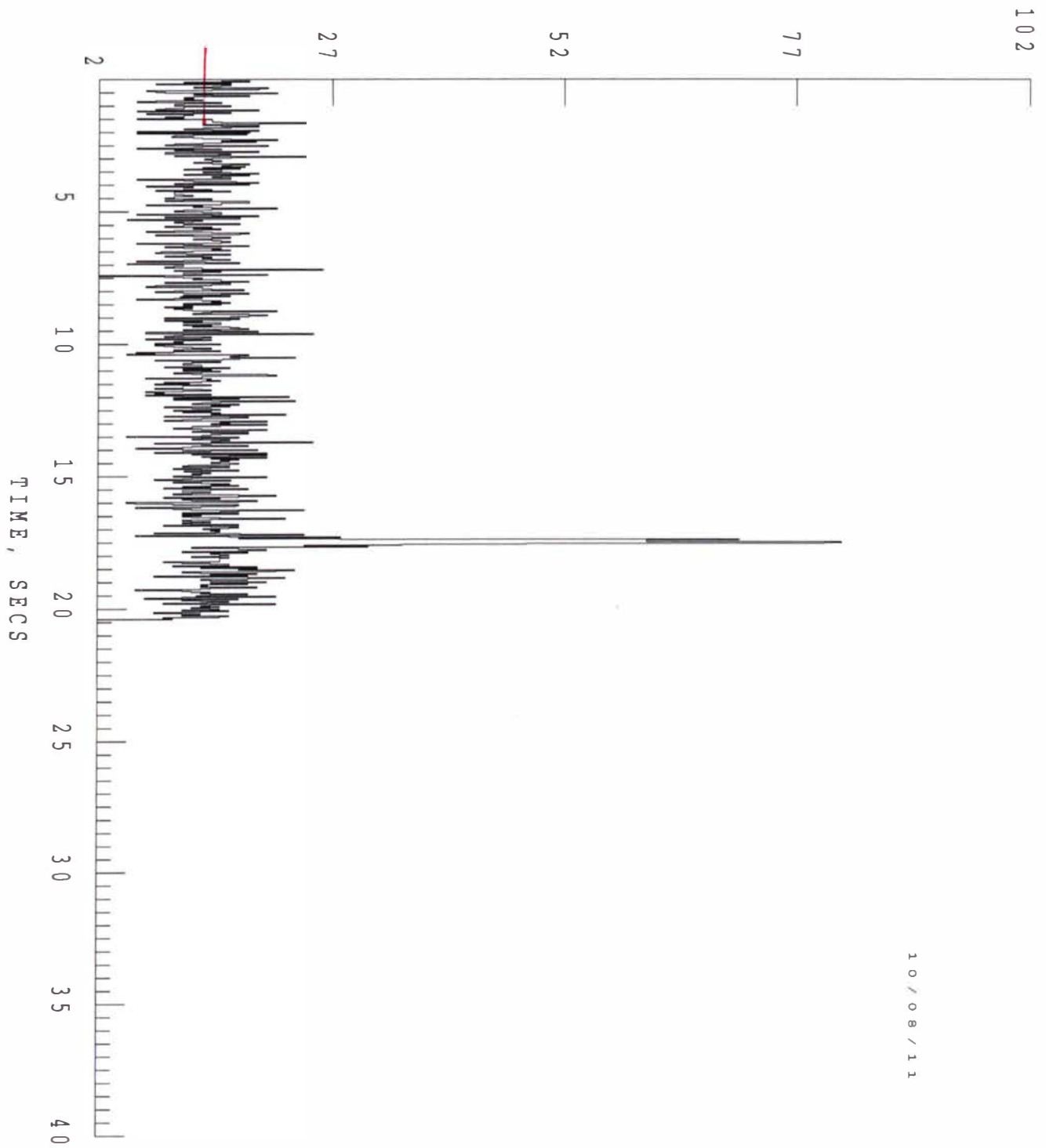


HESSI

08/08/11 56675.000 (KONUS_20110808_56695)

50 - 200 keV

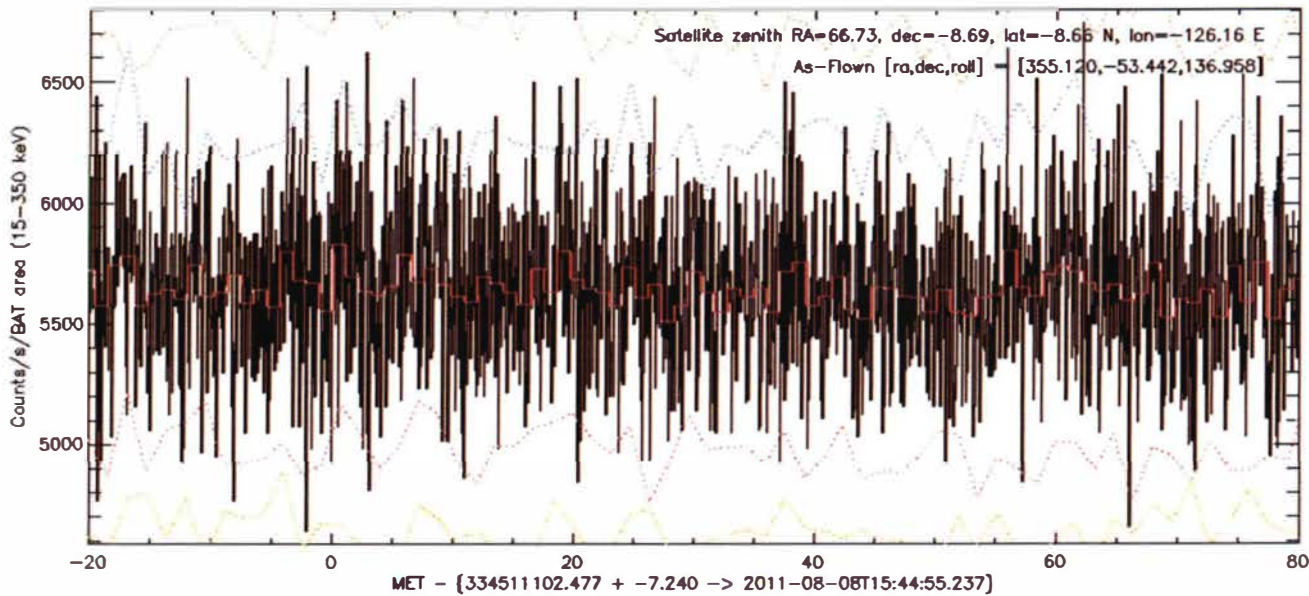
COUNTS/0.032 S



Subject: [lpn] BAT lightcurve for trigger at 110808_1544
From: palmer+automatic_lightcurve@lanl.gov
Date: Tue, 9 Aug 2011 11:43:24 -0600 (MDT)
To: gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/110808_1544.png



```
% /usr/local/bin/swinfo -o 334511102.477
Time(MET + UTC -> UT):      334511102.477 + -7.240 -> 2011-08-08T15:44:55.237
Swift Zenith(RA,dec):       66.73, -8.69
Swift Location(lon,lat,alt): -126.16 E, -8.66 N, 595 km
Obs Sequence Number:        00040842001
Obs Target Name:            RX J2340.4-5328
Obs Date and Times:         2011-08-08 15:34:55 - 15:48:52
Obs Pointing(ra,dec,roll):  355.120, -53.442, 136.96
```

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>

/tmp/110808_1544.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110808_1544_bat64ms_ipn

/tmp/110808_1544_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

B

08/08/11

MESSENGER

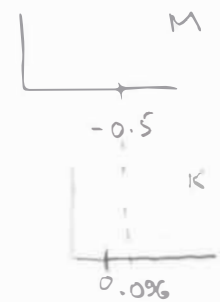
08/08/11

DOY 220

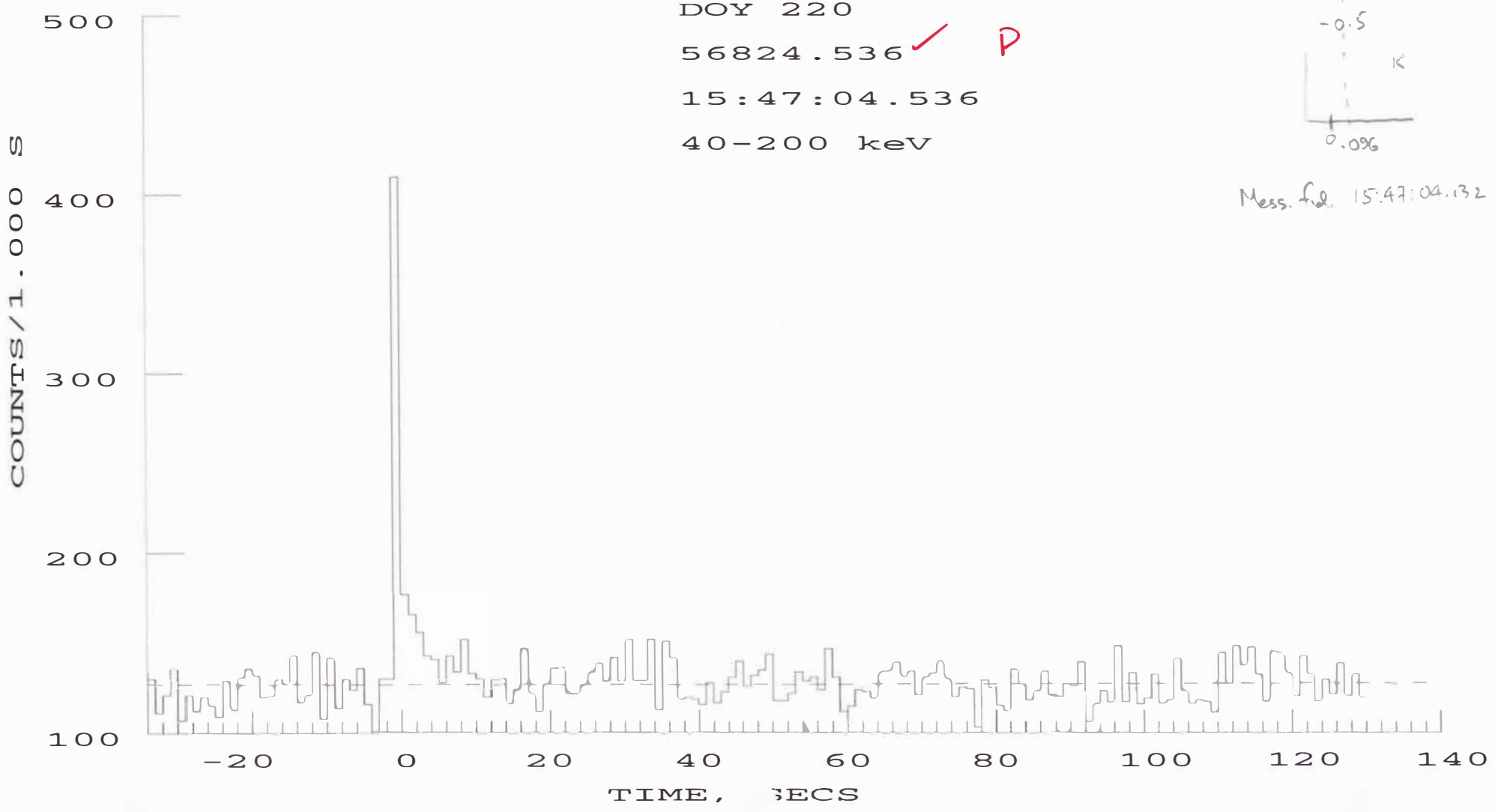
56824.536 ✓ P

15:47:04.536

40-200 keV



Mess. fid. 15:47:04.132



From yamaoka@phys.aoyama.ac.jp Wed Aug 10 23:28:46 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Thu, 11 Aug 2011 15:28:22 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: Kevin Hurley <khurley@ssl.berkeley.edu>
Cc: yamaoka@phys.aoyama.ac.jp, ipn@ssl.berkeley.edu
Subject: Re: [Ipn] GRB110808B
X-Ucb-Scan-Signature: e9c6f274c96f22764aa938bc829c9914f0c8b7ff
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Kevin and all,

This short burst was also detected by Suzaku WAM at the TRN mode.
The name server at our university was in a trouble,
so I recieved your e-mail lately.
Sorry for my late response.

Best wishes,
Kazu

On Wed, 10 Aug 2011 13:05:00 -0700 (PDT)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear IPNer's,
>
> GRB110808A at 56695.237 s has been detected by Konus, RHESSI, Odyssey,
> and MESSENGER so far. It appears to be a very intense, short-hard burst.
I have triangulated it to a relatively small error box :
>
> CENTER: 266.180818= 17 H 44 M 43.40 s -37.746307=-37.D-44.M-46.70S
> CORNERS: 266.049188=17 h 44 m 11.81 s -37.758618=-37 o 45 ' 31.02 "
> 266.345325=17 h 45 m 22.88 s -37.873204=-37 o 52 ' 23.54 "
> 266.016584=17 h 44 m 3.98 s -37.616926=-37 o 37 ' 0.93 "
> 266.312262=17 h 45 m 14.94 s -37.733247=-37 o 43 ' 59.69 "
>
> which is far from any of the known SGRs. I will draft a GCN Circular
> and request a Swift ToO.
>
> Kevin
>

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

From vxw@capella2.gsfc.nasa.gov Mon Aug 8 10:50:48 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Mon, 8 Aug 2011 13:51:25 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 136c15b4bb5cebf9fb601c41cac1afdb4cc79434
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.812'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Mon 08 Aug 11 17:51:20 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 458942, Seg Num: 0
GRB_RA: 81.982d {+05h 27m 56s} (J2000),
82.073d {+05h 28m 18s} (current),
81.587d {+05h 26m 21s} (1950)
GRB_DEC: -41.711d {-41d 42' 38"} (J2000),
-41.702d {-41d 42' 05"} (current),
-41.750d {-41d 45' 01"} (1950)
GRB_DATE: 15781 TJD; 220 DOY; 11/08/08
GRB_TIME: 63466.99 SOD {17:37:46.99} UT
TRIGGER_INDEX: 155
GRB_PHI: -71.40 [deg]
GRB_THETA: 18.15 [deg]
DELTA_TIME: -63.00 [sec]
TRIGGER_DUR: 1.024 [sec]
SOLN_STATUS: 0x83
RATE_SIGNIF: 12.20 [sigma]
IMAGE_SIGNIF: 6.72 [sigma]
JC_URL: sw00458942000msb.lc
SUN_POSTN: 138.30d {+09h 13m 13s} +16.09d {+16d 05' 10"}
SUN_DIST: 77.62 [deg] Sun_angle= 3.7 [hr] (West of Sun)
MOON_POSTN: 253.75d {+16h 55m 00s} -23.25d {-23d 15' 06"}
MOON_DIST: 114.59 [deg]
MOON_ILLUM: 74 [%]
GAL_COORDS: 246.95, -32.70 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 75.87, -64.76 [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. **No**
COMMENTS: Since ~~the~~ IMAGE_SIGNIF is less than 7 sigma, this is a question
COMMENTS: This trigger occurred at longitude,latitude = 257.88, -19.97 [de

From gcncirc@capella2.gsfc.nasa.gov Mon Aug 8 11:12:39 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: Swift Trigger 458942 is probably not a burst
o: khurley@ssl.berkeley.edu
Date: Mon, 8 Aug 2011 14:13:10 -0400 (EDT)
X-Ucb-Scan-Signature: 43ffeleda143ef8b4c499fbf50e4865aa0b97d1a
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.812'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 12263
SUBJECT: Swift Trigger 458942 is probably not a burst
DATE: 11/08/08 18:13:08 GMT
FROM: Scott Barthelmy at NASA/GSFC <scott@milkyway.gsfc.nasa.gov>

S. D. Barthelmy (GSFC), W. H. Baumgartner (GSFC/UMBC),
M. M. Chester (PSU), J. R. Cummings (NASA/UMBC), V. D'Elia (ASDC),
S. T. Holland (CRESST/USRA/GSFC), C. B. Markwardt (NASA/GSFC),
F. E. Marshall (NASA/GSFC), A. Melandri (INAF-OAB),
D. M. Palmer (LANL), T. A. Pritchard (PSU), P. Romano (INAF-IASFPA),
T. Sakamoto (NASA/UMBC), C. J. Saxton (UCL-MSSL),
B. Sbarufatti (INAF-OAB/IASFPA) and G. Stratta (ASDC) report on behalf
of the Swift Team:

At 17:37:46 UT, the Swift Burst Alert Telescope (BAT) triggered
on what is probably noise while entering the SAA. This is probably
not a GRB or anything astrophysical.

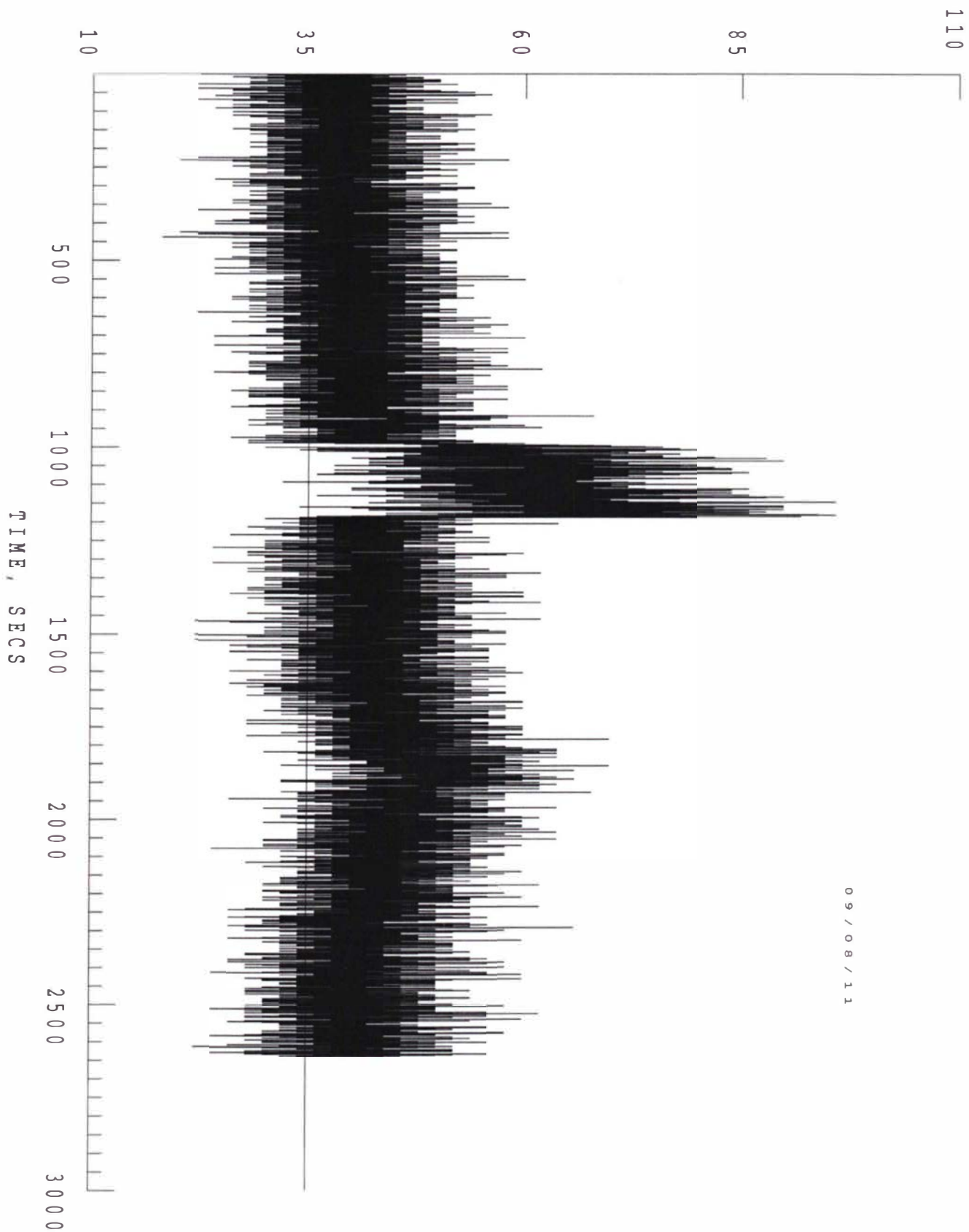
MS01

08/08/11

62123.111

50 - 3000 keV

COUNTS/0.250 S



08/08/11

MESSENGER

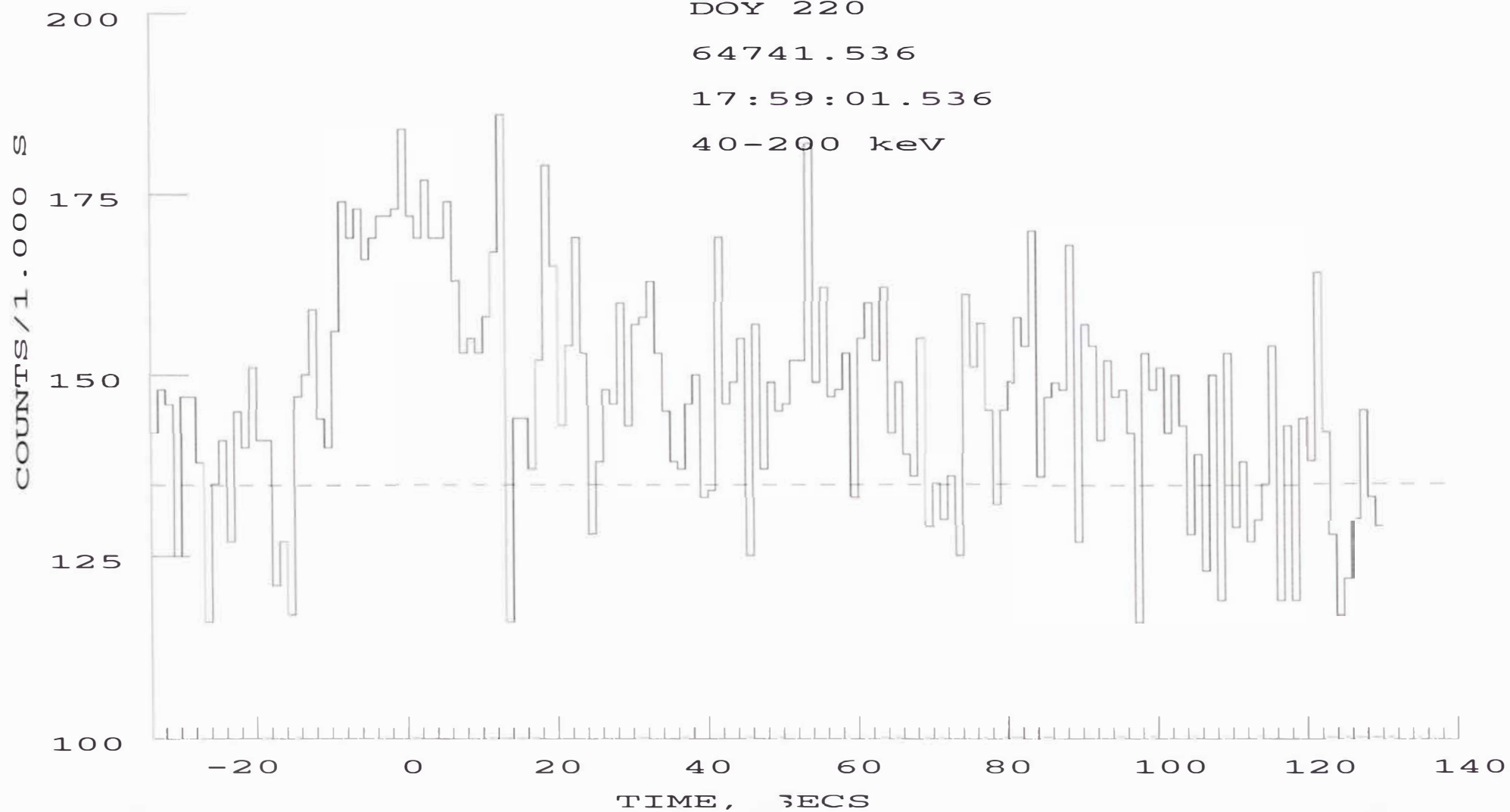
08/08/11

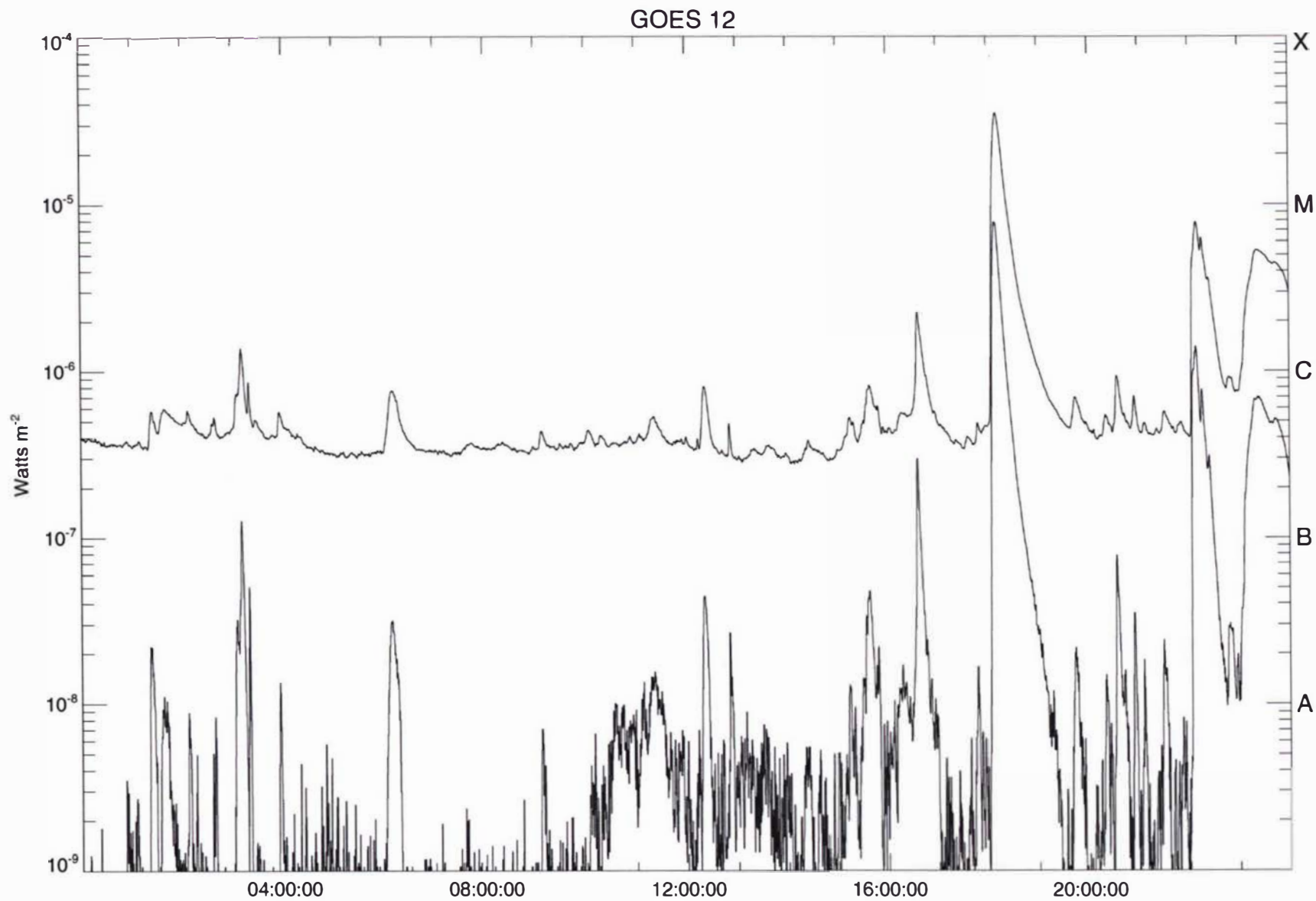
DOY 220

64741.536

17:59:01.536

40-200 keV





Data Start: 11/08/08, 0000:09

Plot created: 11/08/11, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

A

KONUS2

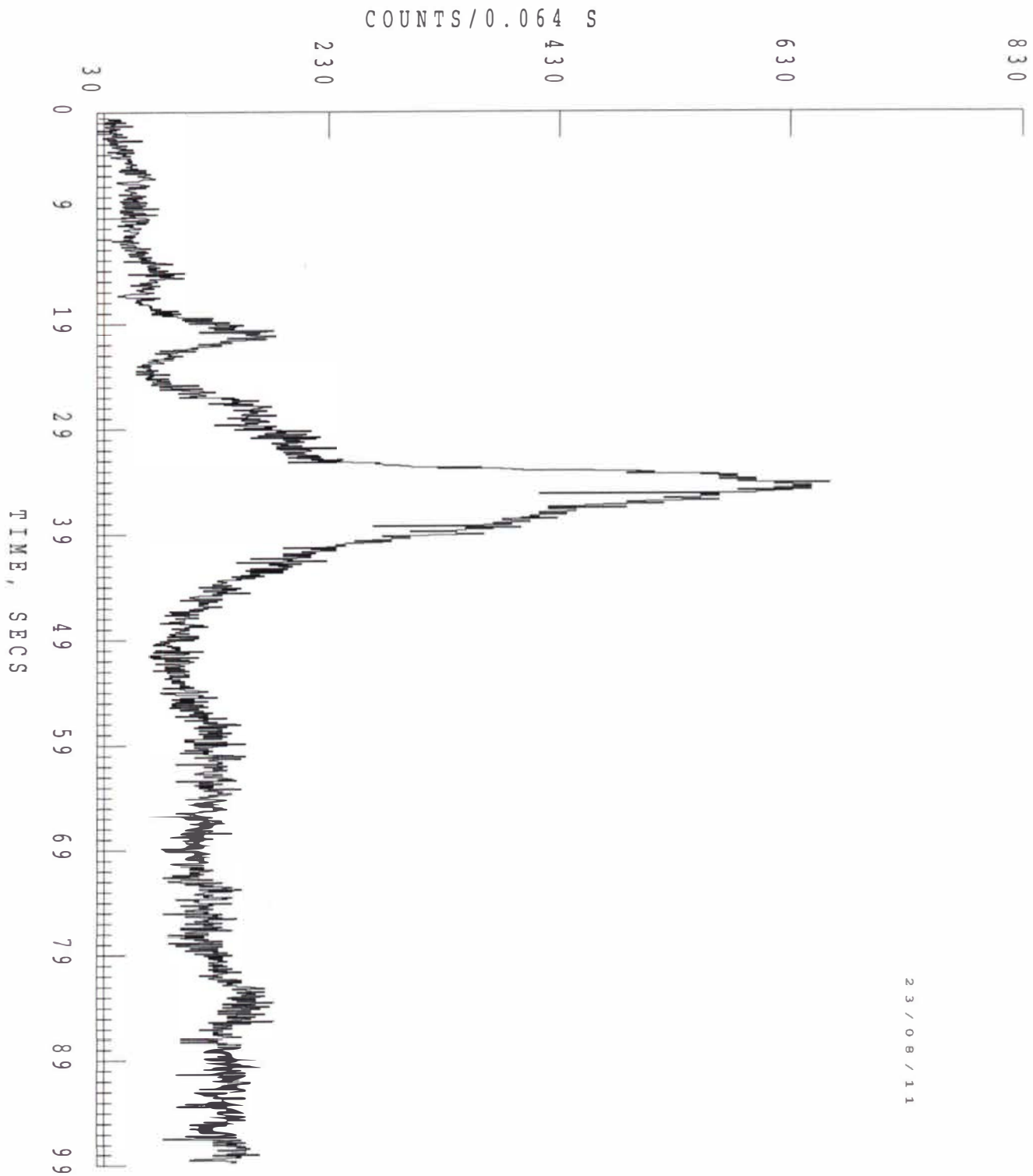
09/08/11

28888.310

08:01:28

50 - 200 keV

Solar



KONUS HRES 20110809 28888

TRIGGER TIME: 09/08/11 DOY 221 Julian 2455783.83435 UT = 08.024 08:01:28 (28888.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

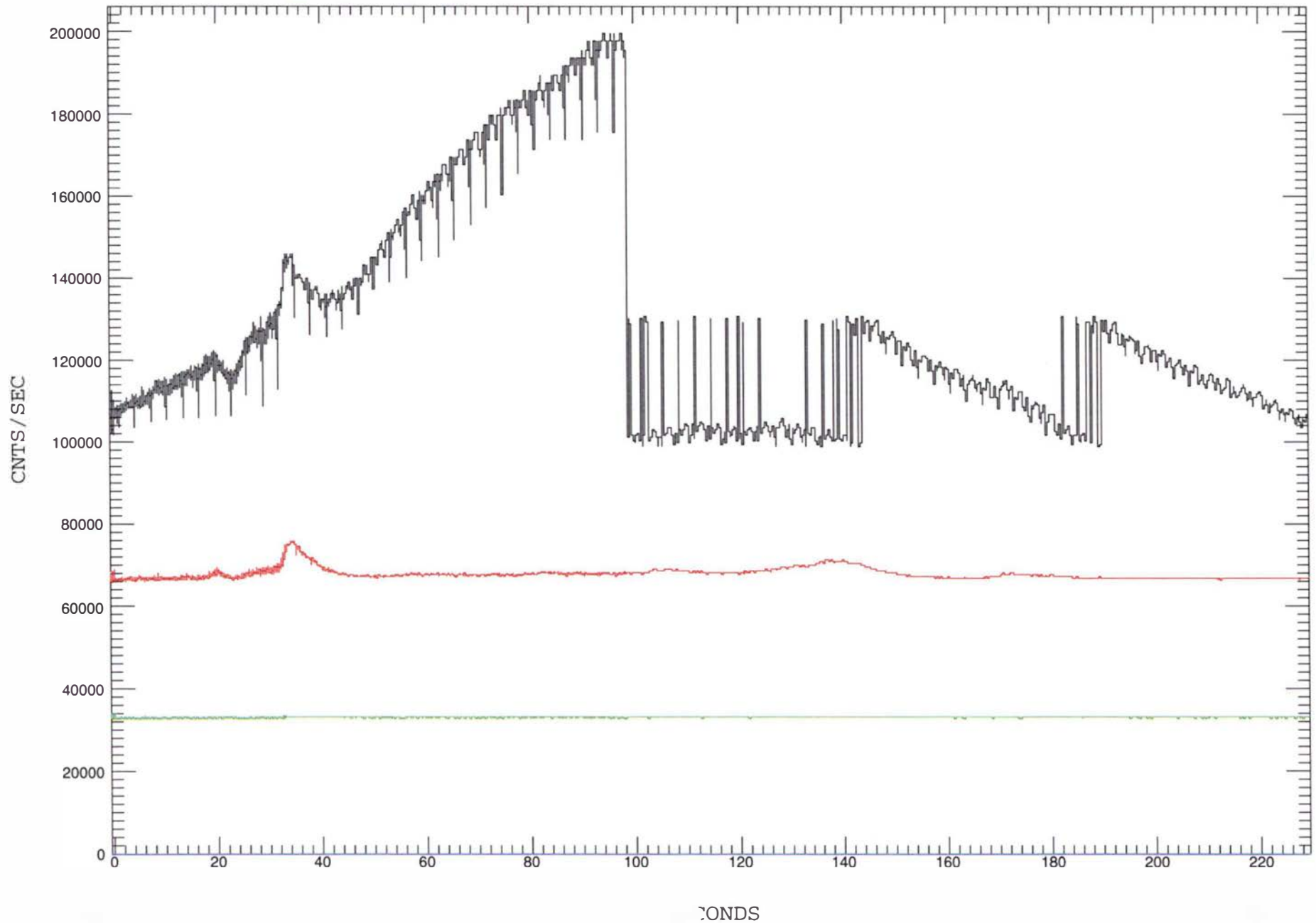
Chan 4 : [> 10 MeV]

Channel 1 + 99300

Channel 2 + 66200

Channel 3 + 33100

Channel 4 + 0

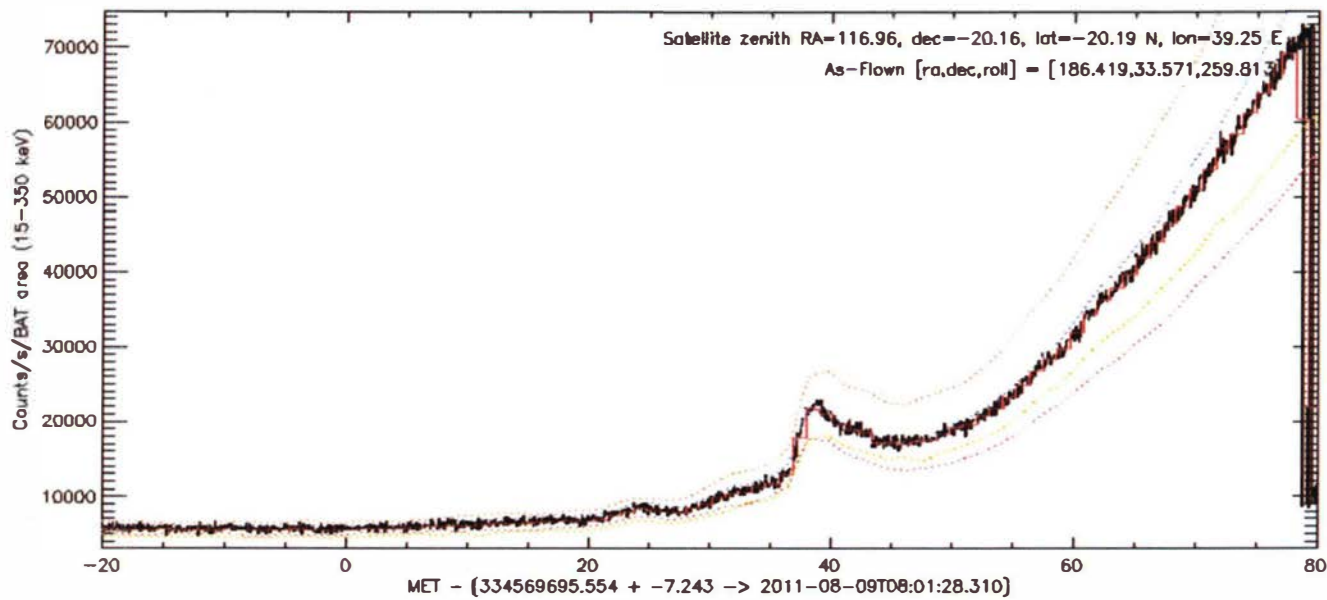


A

Subject: [Ipn] BAT lightcurve for trigger at 110809_0801
From: palmer+automatic_lightcurve@lanl.gov
Date: Tue, 9 Aug 2011 11:44:09 -0600 (MDT)
To: gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/110809_0801.png



```
% /usr/local/bin/swinfo -o 334569695.553
Time(MET + UTCF -> UT):      334569695.554 + -7.243 -> 2011-08-09T08:01:28.310
Swift Zenith(RA,dec):        116.96, -20.16
Swift Location(lon,lat,alt):  39.25 E, -20.19 N, 596 km
Obs Sequence Number:         00032054002
Obs Target Name:              NGC 4395
Obs Date and Times:          2011-08-09 08:01:15 - 08:45:53
Obs Pointing(ra,dec,roll):    186.419, 33.571, 259.81
```

--
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>

/tmp/110809_0801_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110809_0801.png

/tmp/110809_0801.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

A

08/08/11

MESSENGER

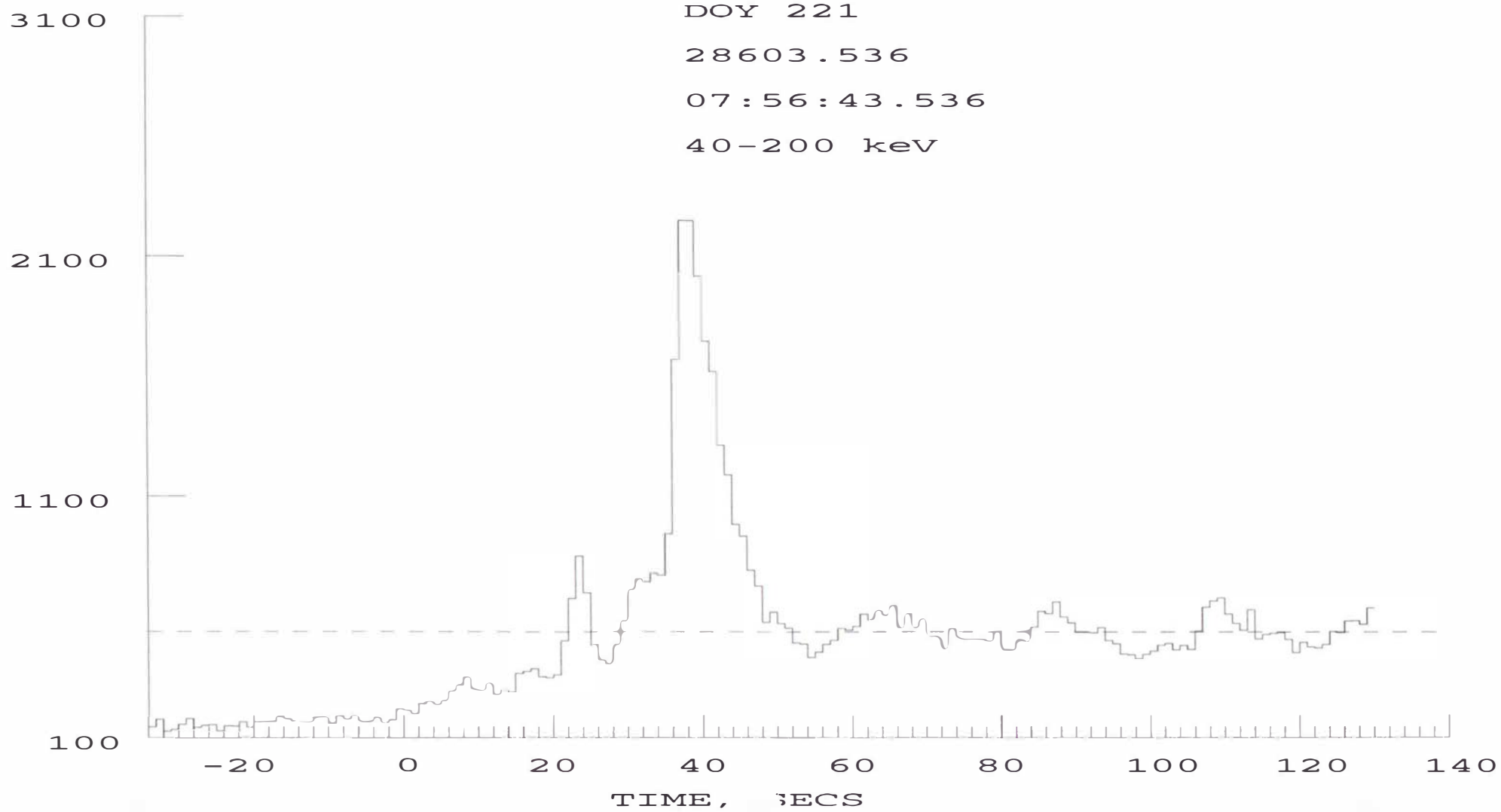
09/08/11

DOY 221

28603.536

07:56:43.536

40-200 keV



SUZAKU

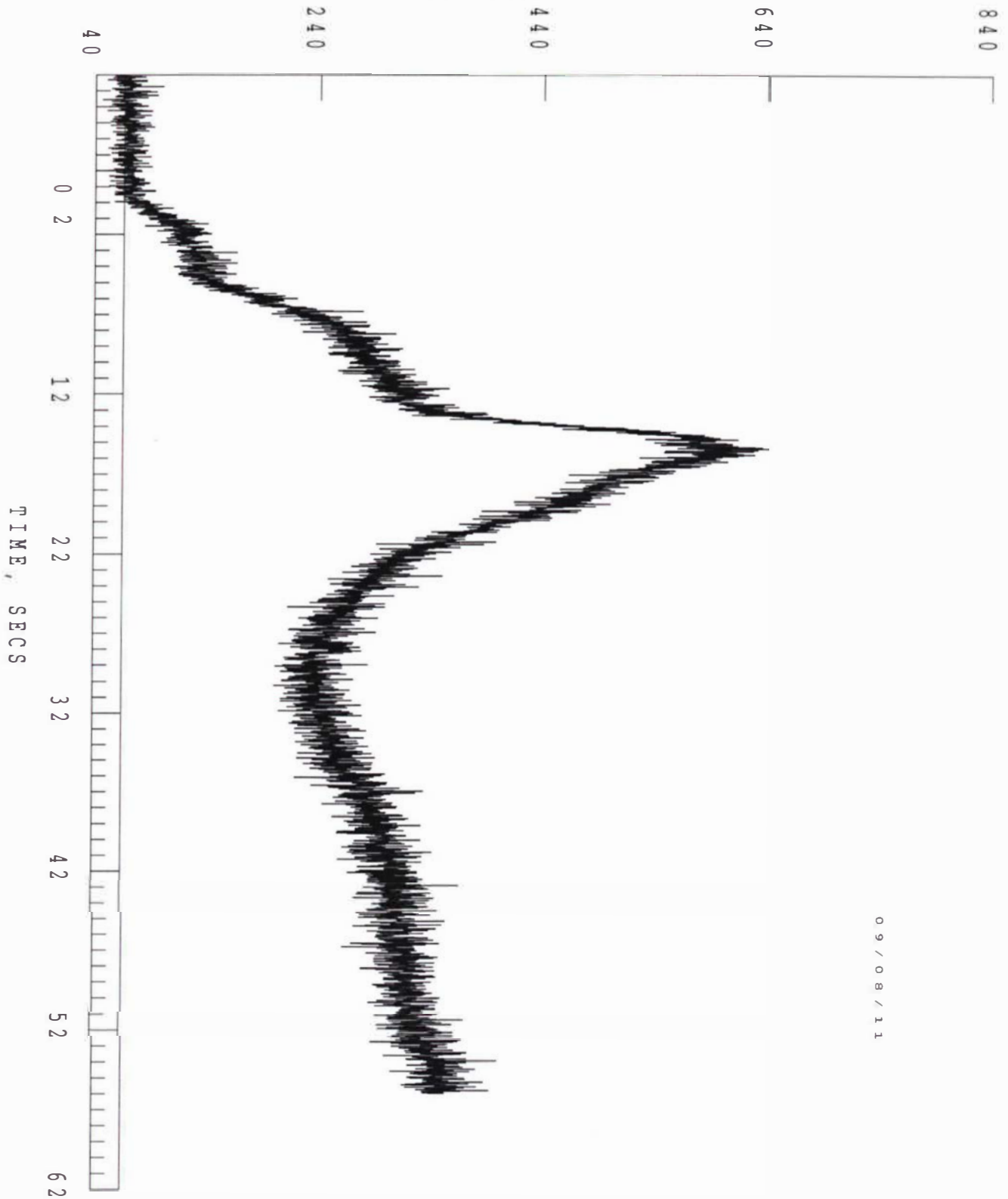
09/08/11

28911.606 08:01:51

A

50 - 240 keV

COUNTS/0.016 S



09/08/11

A

MS01

09/08/11

27562.240

50 - 3000 keV

COUNTS/0.250 S

120

170

20

500

1000

1500

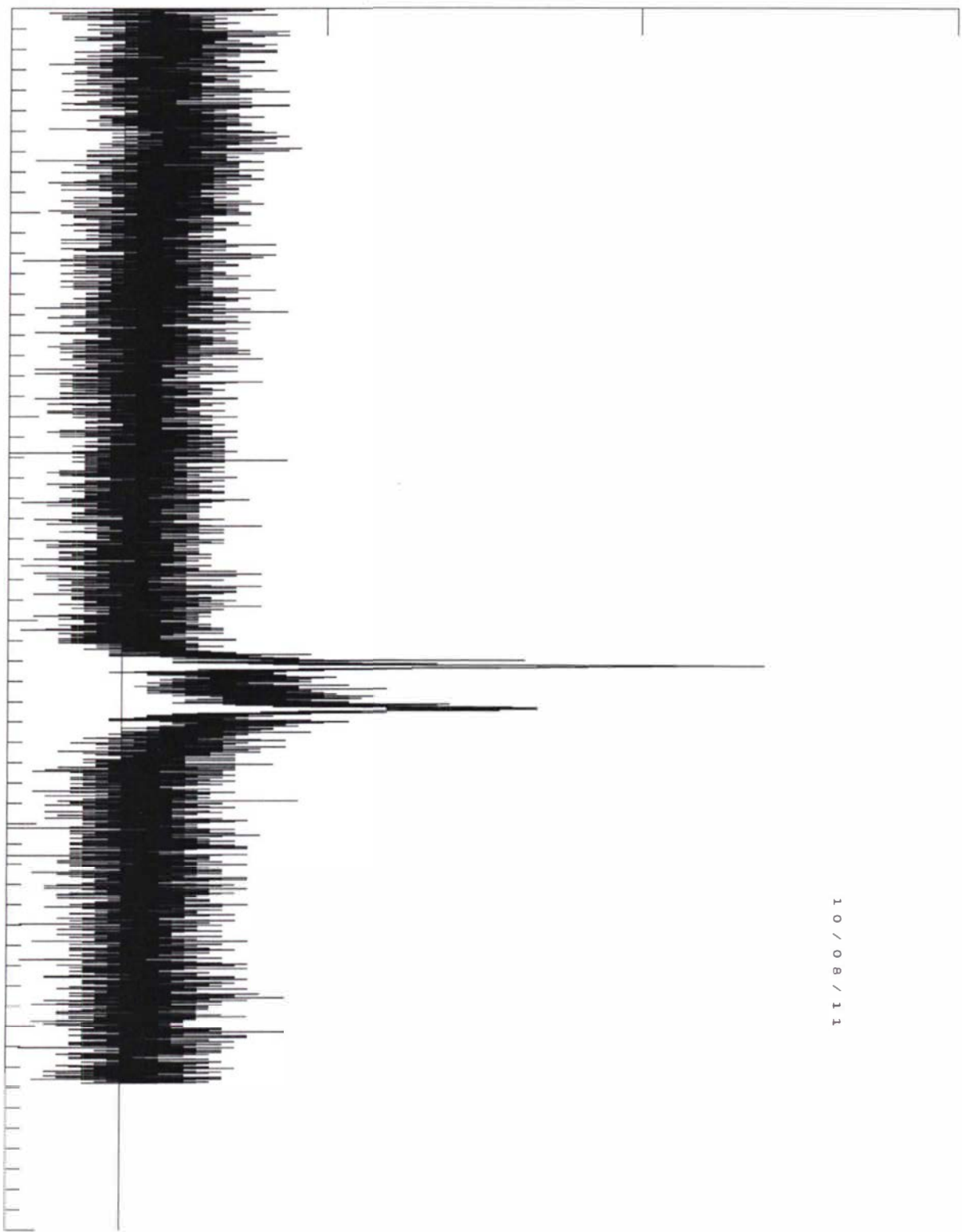
2000

2500

3000

TIME, SECS

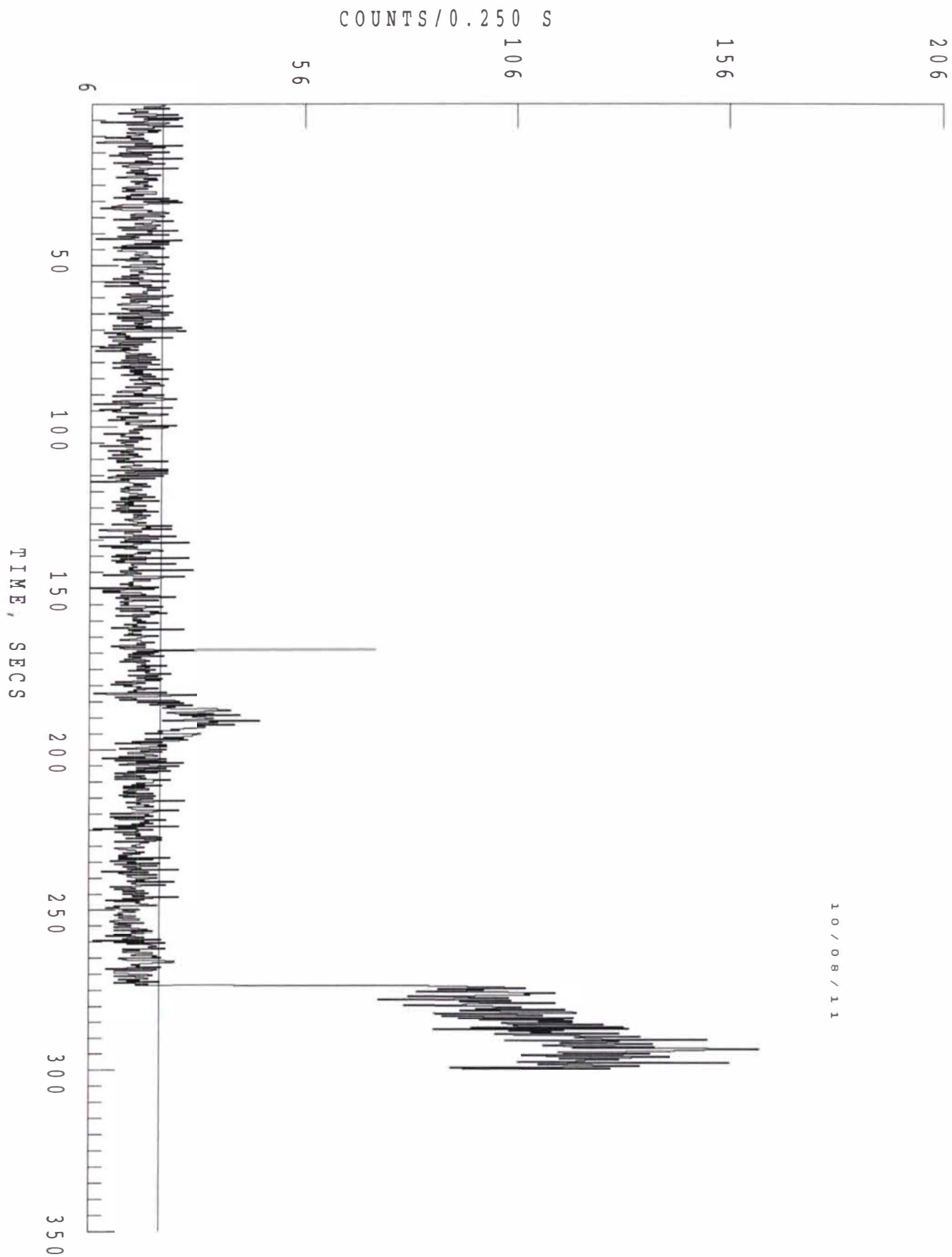
10/08/11



HESSI

09/08/11 28738.000 (KONUS2_20110809_28888)

25- 150 keV



A

08/08/11

MESSENGER

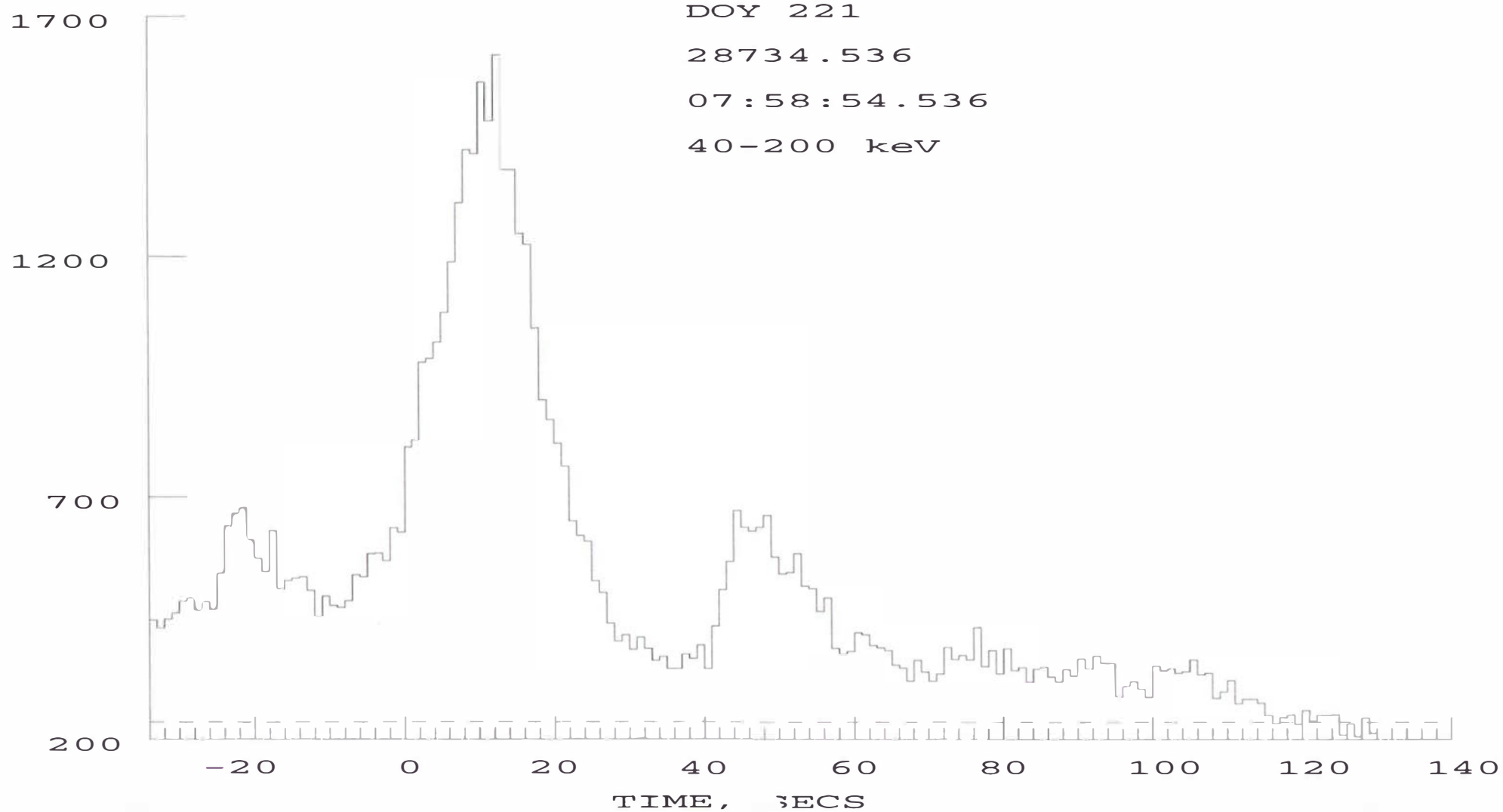
09/08/11

DOY 221

28734.536

07:58:54.536

40-200 keV



K can't

08/08/11

MESSENGER

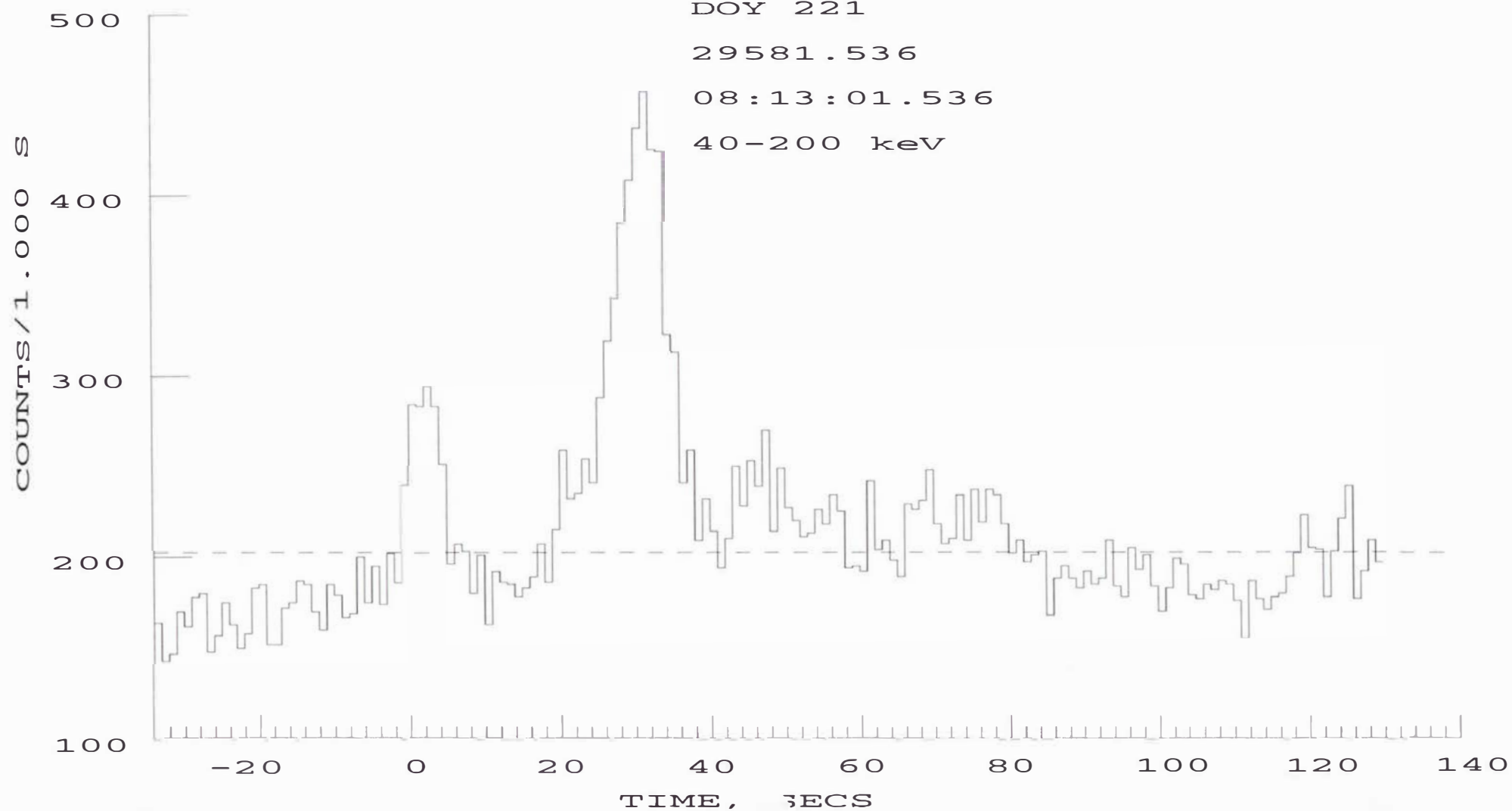
09/08/11

DOY 221

29581.536

08:13:01.536

40-200 keV



Subject: [lpn] BAT lightcurve for trigger at 110809_0801

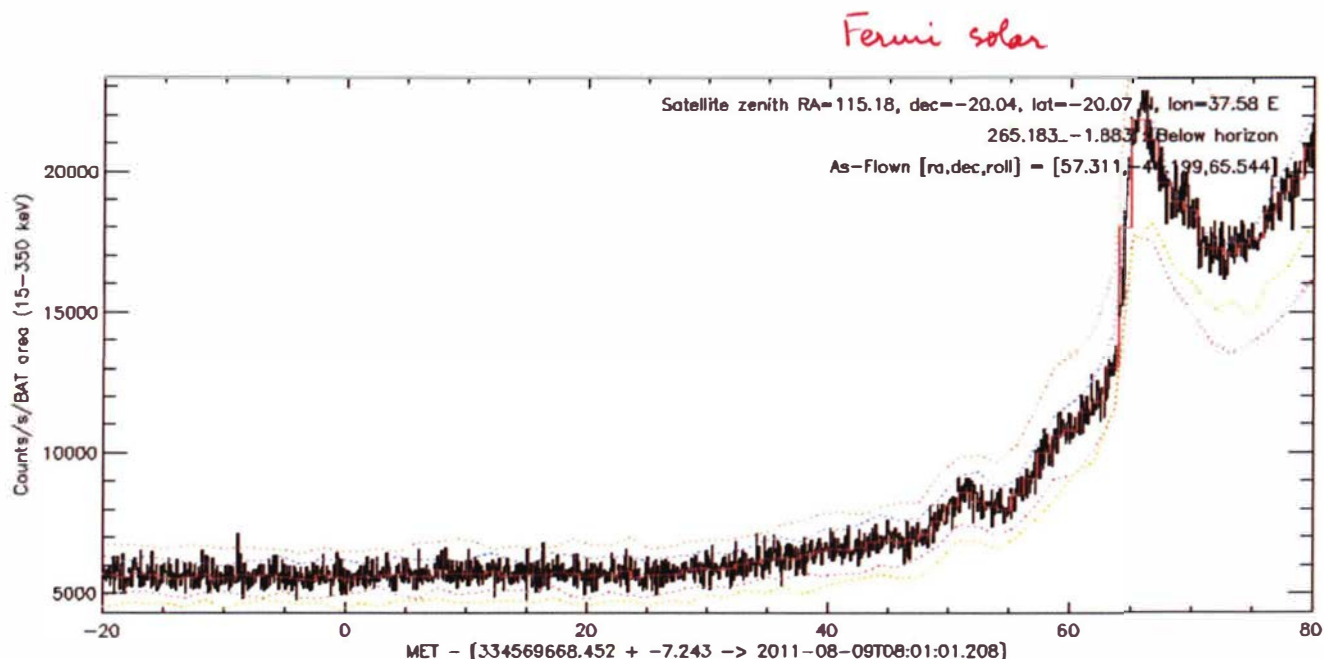
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 9 Aug 2011 06:18:26 -0600 (MDT)

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

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

/tmp/110809_0801.png



```
% /usr/local/bin/swinfo -o 334569668.450 -s 138.367 8.417
Time(MET + UTCF -> UT): 334569668.451 + -7.243 -> 2011-08-09T08:01:01.207
Swift Zenith(RA,dec): 115.18, -20.04
Swift Location(lon,lat,alt): 37.58 E, -20.07 N, 597 km
Obs Sequence Number: 00458918005
Obs Target Name: GRB 110808A
Obs Date and Times: 2011-08-09 07:55:54 - 08:01:12
Obs Pointing(ra,dec,roll): 57.311, -44.199, 65.54
138.367_8.417_imageloc (boresight_dist, angle): (90, -78)
138.367_8.417_exposure (cm^2 cos adjusted): 0
138.367_8.417_altitude: 77 (up)

% /usr/local/bin/swinfo -o 334569668.450 -s 138.450 8.350
Time(MET + UTCF -> UT): 334569668.451 + -7.243 -> 2011-08-09T08:01:01.207
Swift Zenith(RA,dec): 115.18, -20.04
Swift Location(lon,lat,alt): 37.58 E, -20.07 N, 597 km
Obs Sequence Number: 00458918005
Obs Target Name: GRB 110808A
Obs Date and Times: 2011-08-09 07:55:54 - 08:01:12
Obs Pointing(ra,dec,roll): 57.311, -44.199, 65.54
138.450_8.350_imageloc (boresight_dist, angle): (90, -78)
138.450_8.350_exposure (cm^2 cos adjusted): 0
138.450_8.350_altitude: 77 (up)

% /usr/local/bin/swinfo -o 334569668.451 -s 153.800 13.667
Time(MET + UTCF -> UT): 334569668.452 + -7.243 -> 2011-08-09T08:01:01.208
Swift Zenith(RA,dec): 115.18, -20.04
Swift Location(lon,lat,alt): 37.58 E, -20.07 N, 597 km
Obs Sequence Number: 00458918005
Obs Target Name: GRB 110808A
Obs Date and Times: 2011-08-09 07:55:54 - 08:01:12
Obs Pointing(ra,dec,roll): 57.311, -44.199, 65.54
153.800_13.667_imageloc (boresight_dist, angle): (104, -71)
153.800_13.667_exposure (cm^2 cos adjusted): 0
153.800_13.667_altitude: 63 (up)

% /usr/local/bin/swinfo -o 334569668.451 -s 166.567 12.733
Time(MET + UTCF -> UT): 334569668.452 + -7.243 -> 2011-08-09T08:01:01.208
Swift Zenith(RA,dec): 115.18, -20.04
```

[Ipn] BAT lightcurve for trigger at 110809_0801

```
Swift Location(lon,lat,alt): 37.58 E, -20.07 N, 597 km
Obs Sequence Number: 00458918005
Obs Target Name: GRB 110808A
Obs Date and Times: 2011-08-09 07:55:54 - 08:01:12
Obs Pointing(ra,dec,roll): 57.311, -44.199, 65.54
166.567_12.733_imageloc (boresight_dist, angle): (113, -61)
166.567_12.733_exposure (cm^2 cos adjusted): 0
166.567_12.733_altitude: 54 (up)

% /usr/local/bin/swinfo -o 334569668.451 -s 265.183 -1.883
Time(MET + UTCF -> UT): 334569668.452 + -7.243 -> 2011-08-09T08:01:01.208
Swift Zenith(RA,dec): 115.18, -20.04
Swift Location(lon,lat,alt): 37.58 E, -20.07 N, 597 km
Obs Sequence Number: 00458918005
Obs Target Name: GRB 110808A
Obs Date and Times: 2011-08-09 07:55:54 - 08:01:12
Obs Pointing(ra,dec,roll): 57.311, -44.199, 65.54
265.183_-1.883_imageloc (boresight_dist, angle): (128, 61)
265.183_-1.883_exposure (cm^2 cos adjusted): 0
265.183_-1.883_altitude: -29 (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>

/tmp/110809_0801_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

/tmp/110809_0801.png

/tmp/110809_0801.png	Content-Type: image/png
	Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

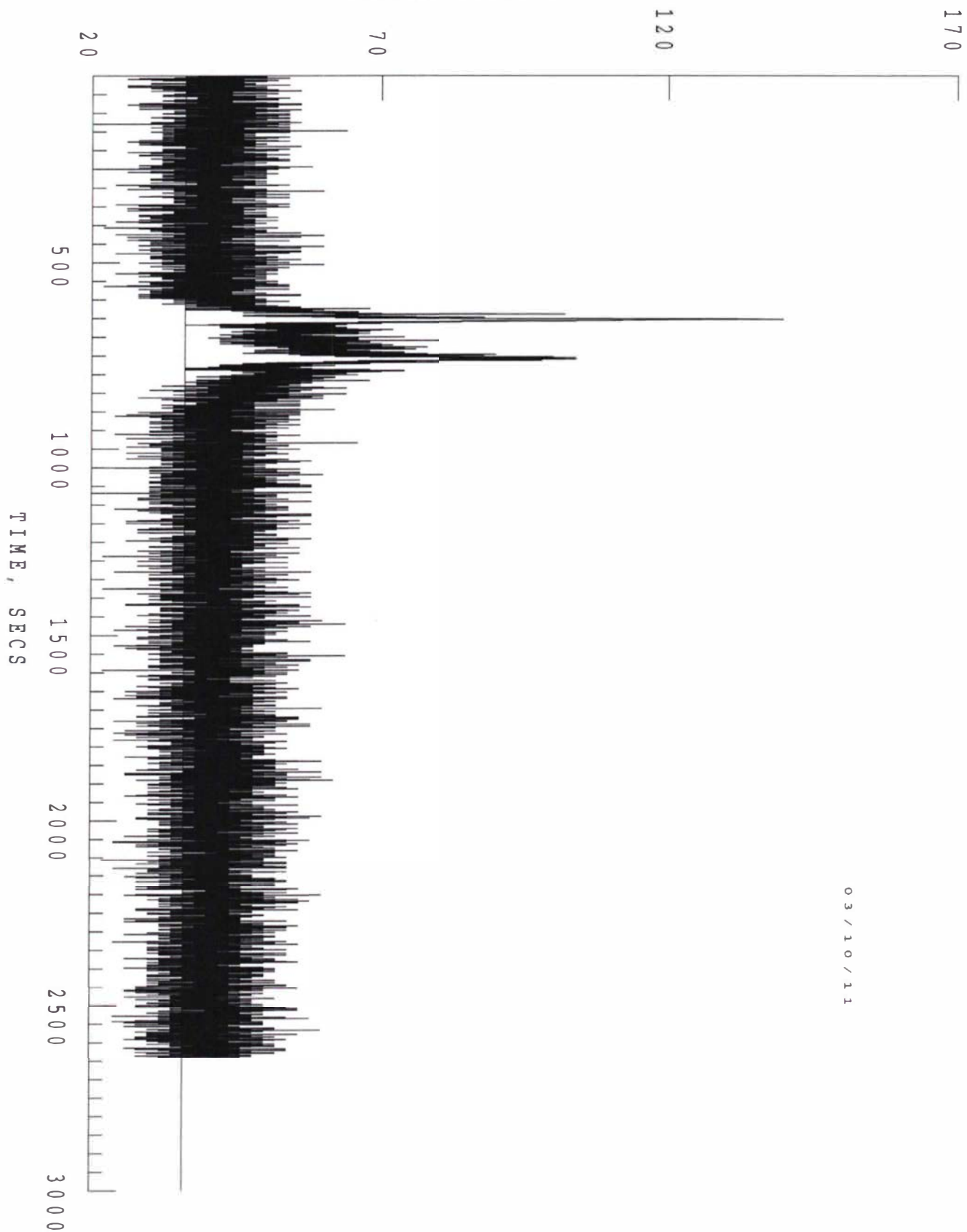
MS01

09/08/11

28522.224

50 - 3000 keV

COUNTS/0.250 S

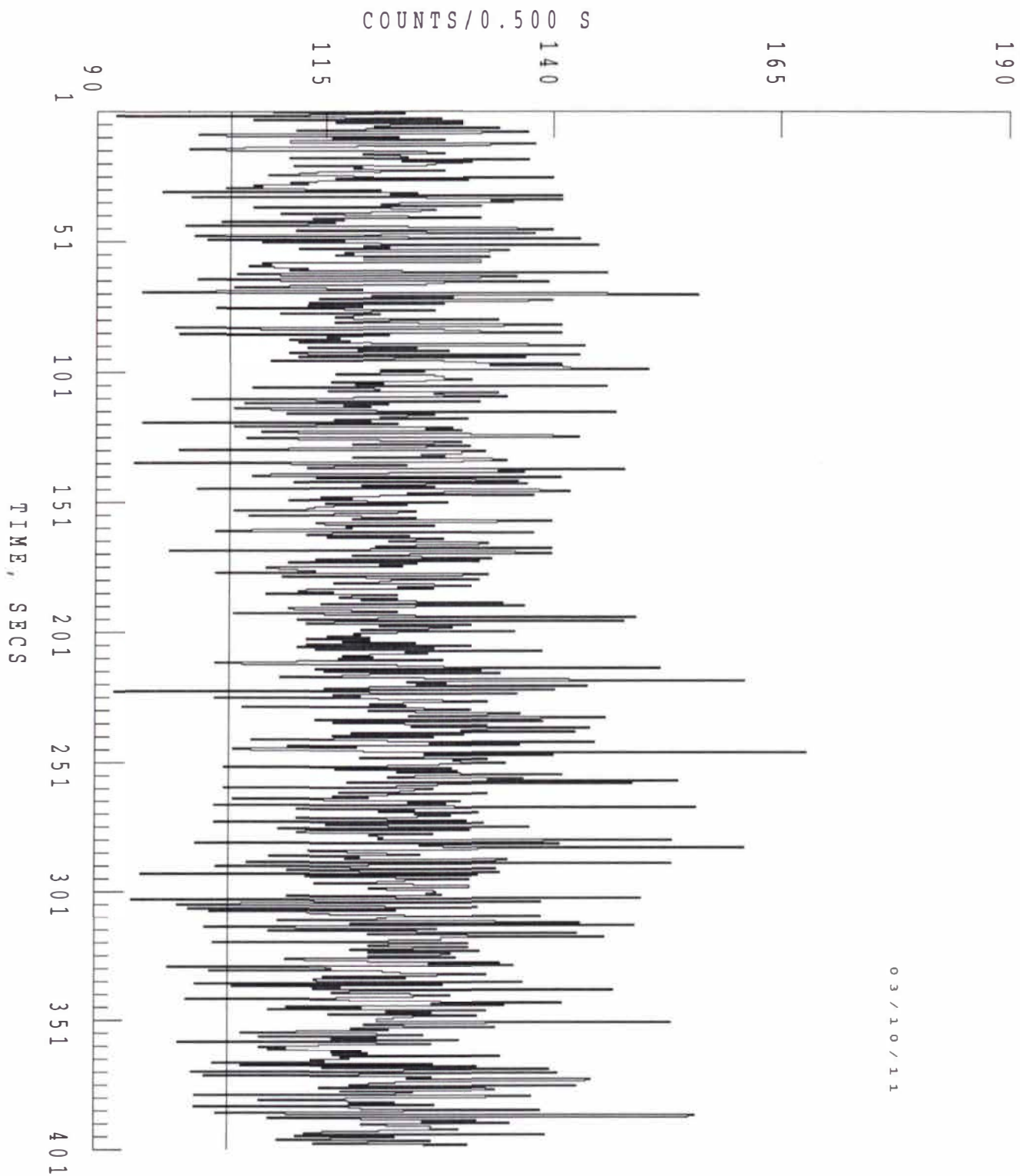


03/10/11

HESSI

09/08/11 29661.000 (SUZAKU_20110809_29861)

25- 150 keV



GLAST

09/08/11

39814.004

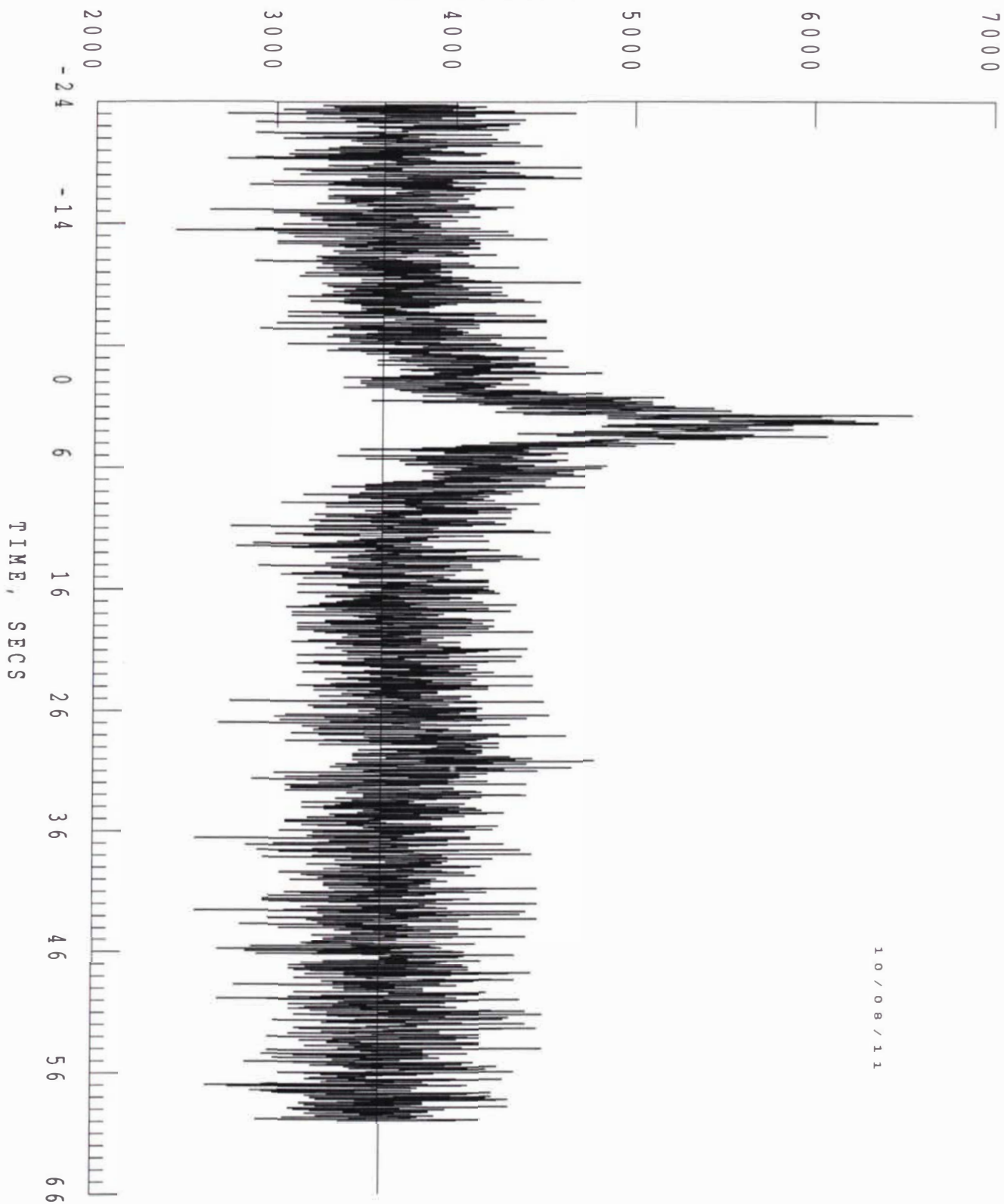
B

26 - 293 keV

11:03:34

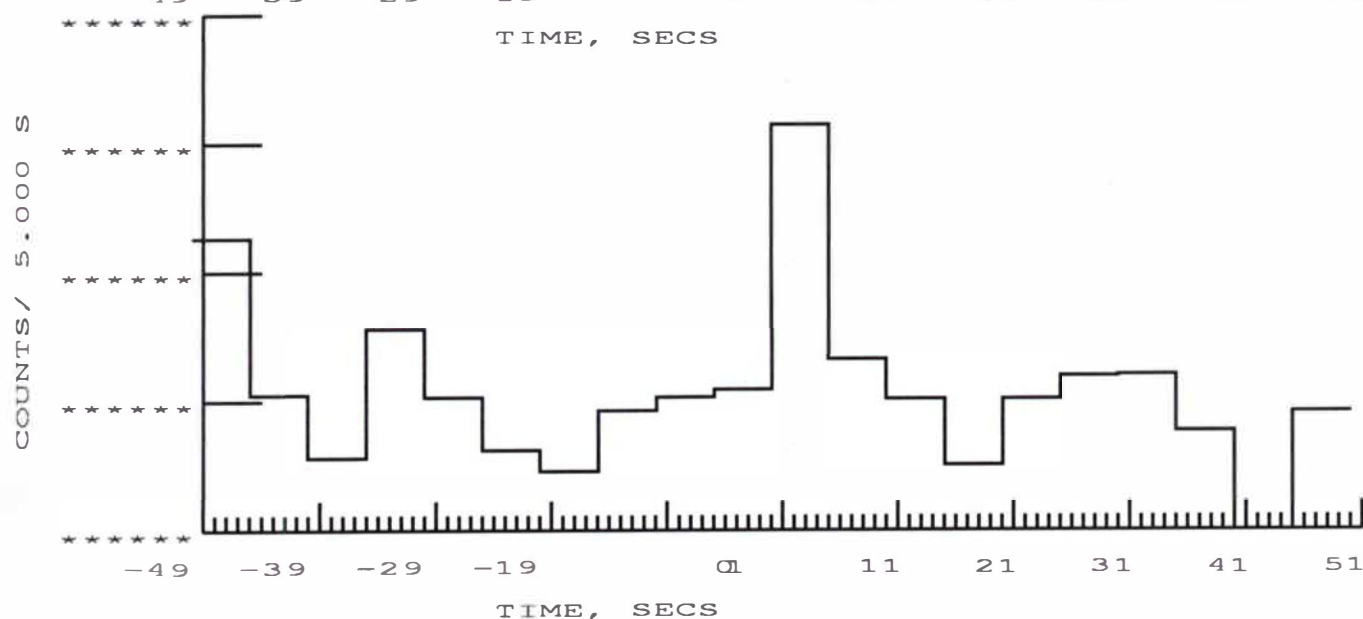
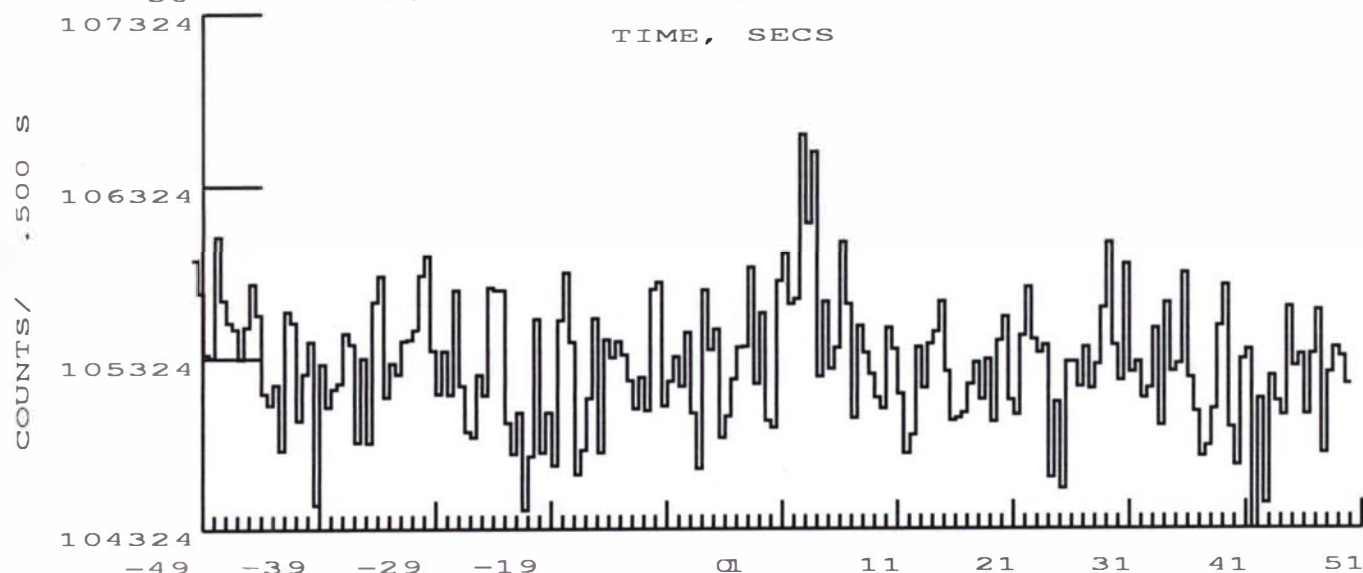
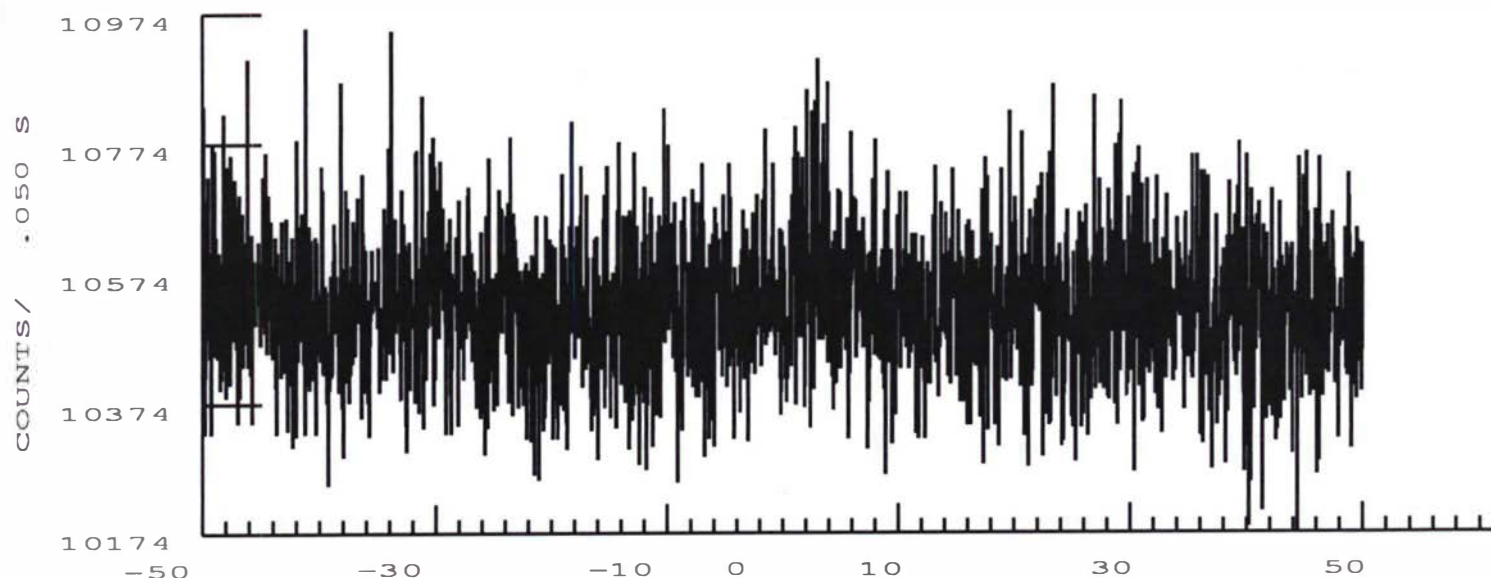
172.17, -12.07, 1.84

COUNTS/0.032 S



B

INTEGRAL 09/08/11 39814.000 11:03:34.0 20/01/14



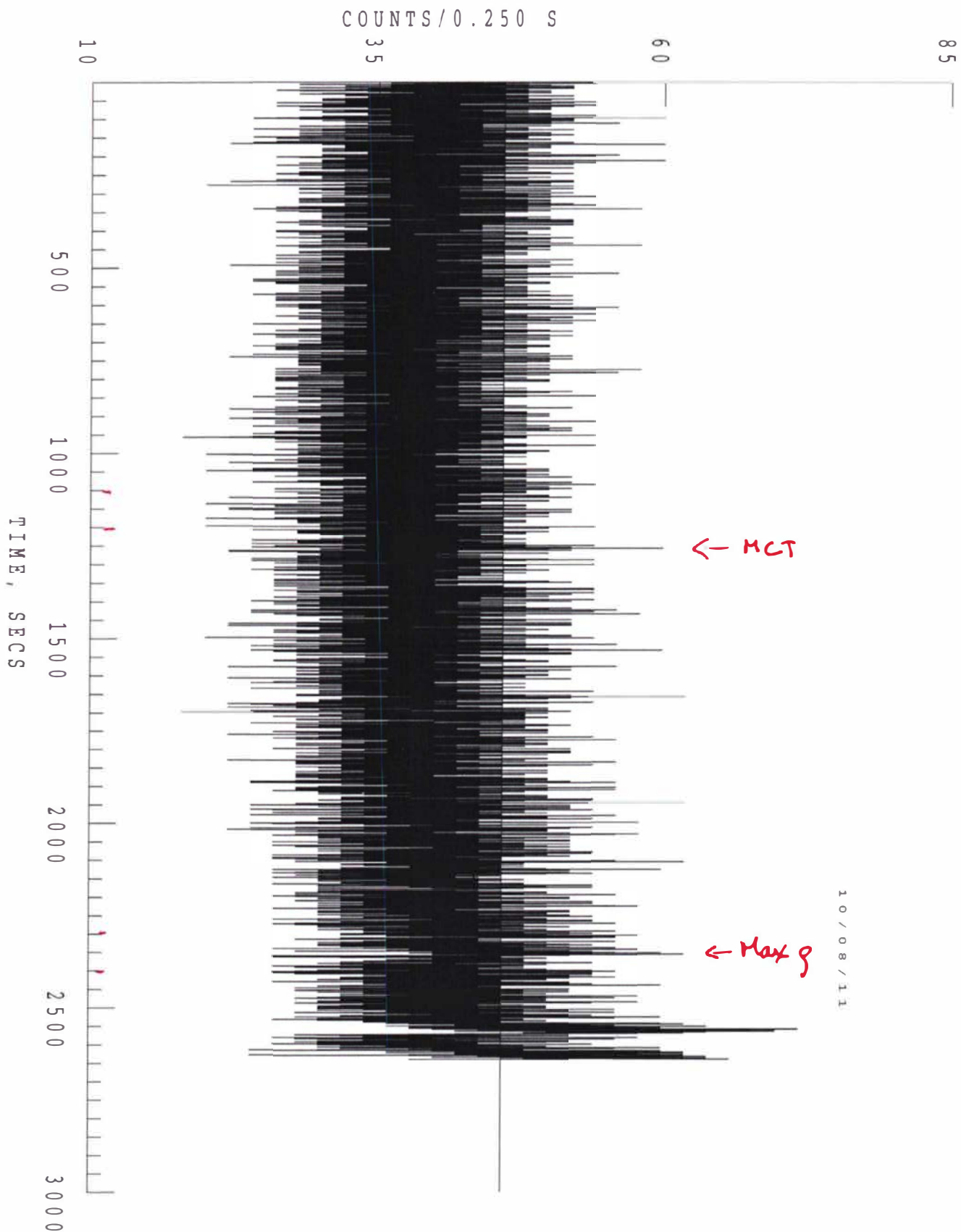
MS01

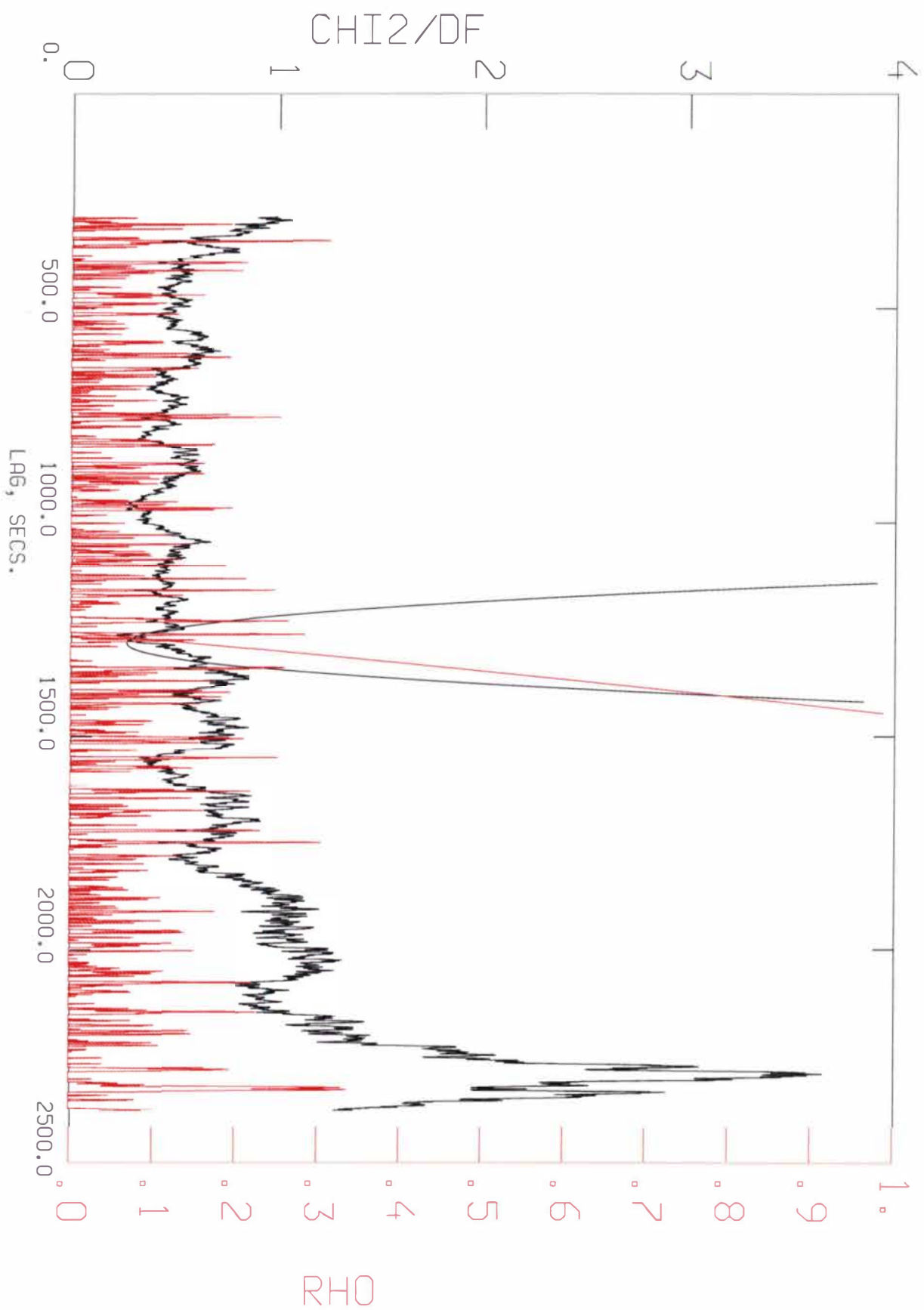
09/08/11

38482.060

50 - 3000 keV

13

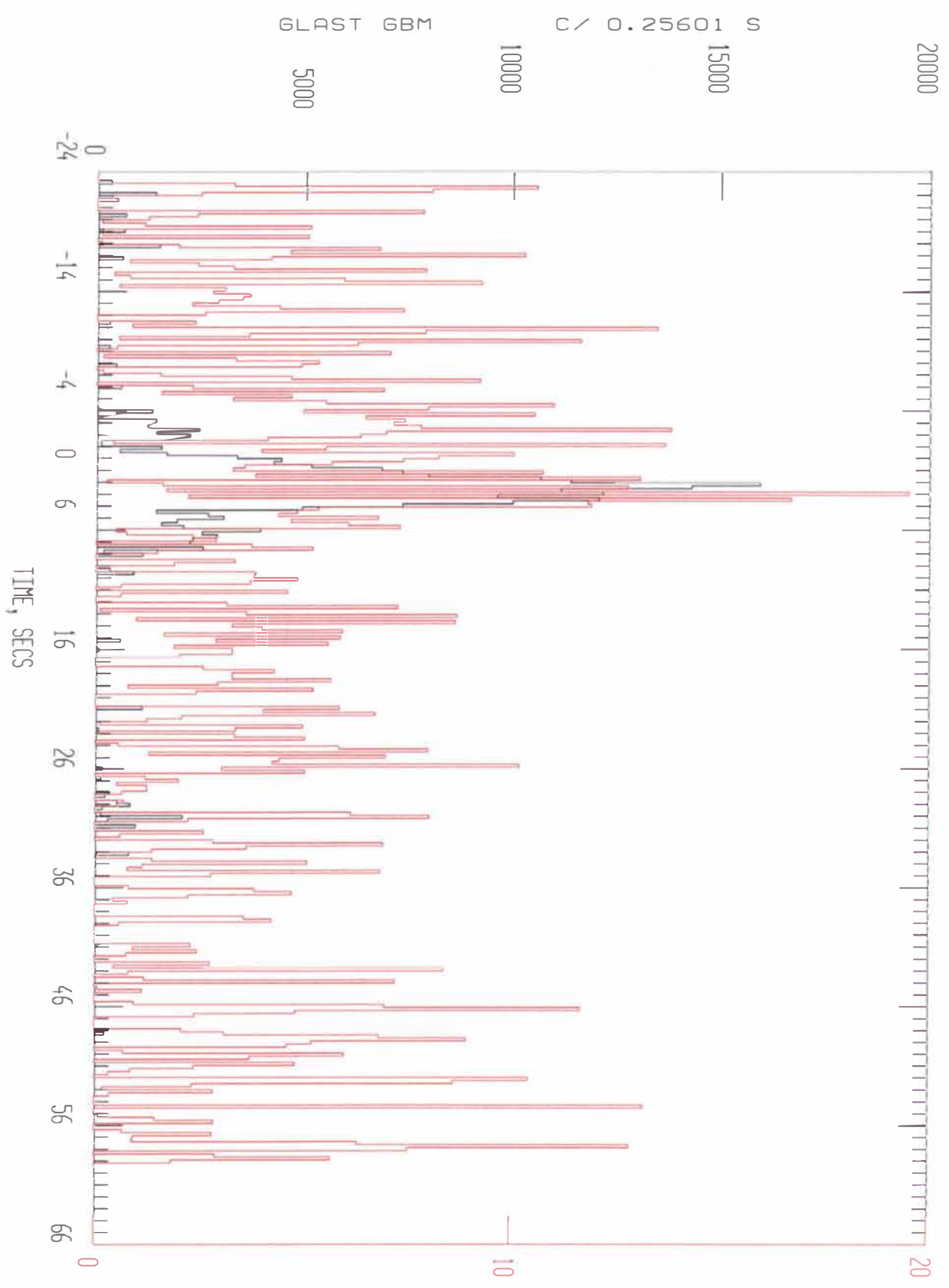




B

GLAST GBM -MSO1 HEND CORRELATION 09/08/11 39814.004

28/ 9/11



From williams@gammaburst.ssl.berkeley.edu Sun Aug 14 23:03:14 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Sun, 14 Aug 2011 23:02:29 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu

Subject: No RHESSI data for GLAST 20110809_39814

X-Ucb-Scan-Signature: 9332939c711d25e0e1bbc9a9fd1c60d742e7be79

X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -1.071'

X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 14-Aug-2011 23:02:48.00
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

Subject: [lpn] BAT lightcurve for trigger at 110809_1103

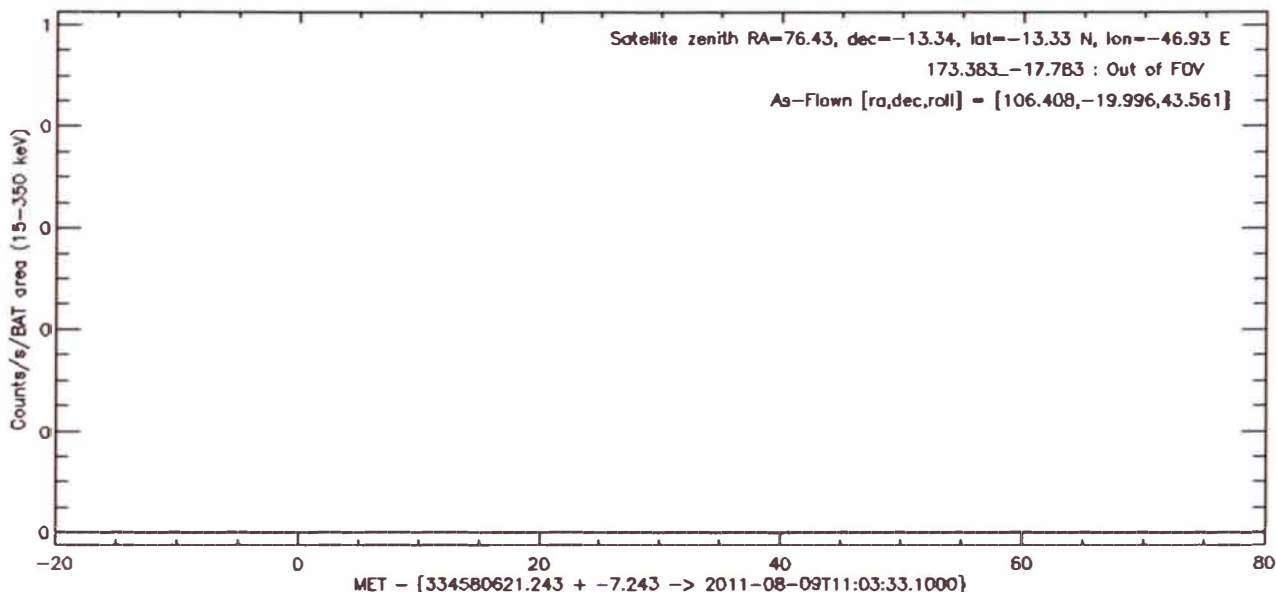
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 9 Aug 2011 07:18:25 -0600 (MDT)

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

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

/tmp/110809_1103.png



```
% /usr/local/bin/swinfo -o 334580621.243 -s 172.170_-13.930
Time(MET + UTCF -> UT): 334580621.243 + -7.243 -> 2011-08-09T11:03:33.1000
Swift Zenith(RA,dec): 76.43, -13.34
Swift Location(lon,lat,alt): -46.93 E, -13.33 N, 596 km
Obs Sequence Number: 00074105063
Obs Target Name: saa-cold-221-02
Obs Date and Times: 2011-08-09 10:54:54 - 11:21:53
Obs Pointing(ra,dec,roll): 106.408, -19.996, 43.56
172.170_-13.930_imageloc (boresight_dist, angle): (63, -38)
172.170_-13.930_exposure (cm^2 cos adjusted): 0
172.170_-13.930_altitude: 22 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334580621.243 -s 173.317_-17.883
Time(MET + UTCF -> UT): 334580621.243 + -7.243 -> 2011-08-09T11:03:33.1000
Swift Zenith(RA,dec): 76.43, -13.34
Swift Location(lon,lat,alt): -46.93 E, -13.33 N, 596 km
Obs Sequence Number: 00074105063
Obs Target Name: saa-cold-221-02
Obs Date and Times: 2011-08-09 10:54:54 - 11:21:53
Obs Pointing(ra,dec,roll): 106.408, -19.996, 43.56
173.317_-17.883_imageloc (boresight_dist, angle): (63, -33)
173.317_-17.883_exposure (cm^2 cos adjusted): 0
173.317_-17.883_altitude: 22 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334580621.243 -s 173.383_-17.783
Time(MET + UTCF -> UT): 334580621.243 + -7.243 -> 2011-08-09T11:03:33.1000
Swift Zenith(RA,dec): 76.43, -13.34
Swift Location(lon,lat,alt): -46.93 E, -13.33 N, 596 km
Obs Sequence Number: 00074105063
Obs Target Name: saa-cold-221-02
Obs Date and Times: 2011-08-09 10:54:54 - 11:21:53
Obs Pointing(ra,dec,roll): 106.408, -19.996, 43.56
173.383_-17.783_imageloc (boresight_dist, angle): (63, -33)
173.383_-17.783_exposure (cm^2 cos adjusted): 0
173.383_-17.783_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>

/tmp/110809_1103.png	Content-Type:	image/png
	Content-Encoding:	base64

/tmp/110809_1103_bat64ms_ipn

/tmp/110809_1103_bat64ms_ipn	Content-Type:	application/octet-stream
	Content-Encoding:	base64

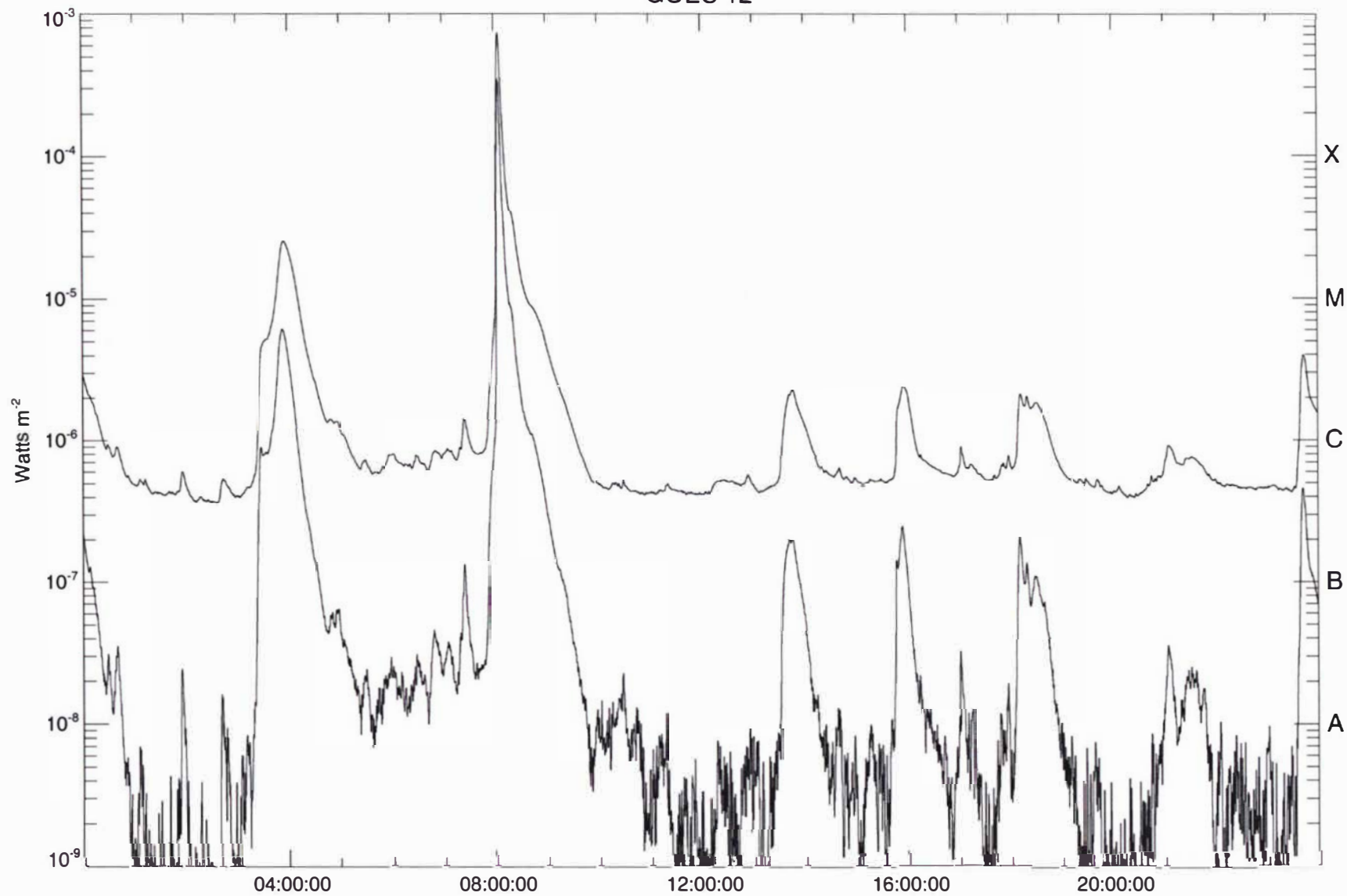
Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

GOES 12



Data Start: 11/08/09, 0000:09

Plot created: 11/08/12, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

SUZAKU

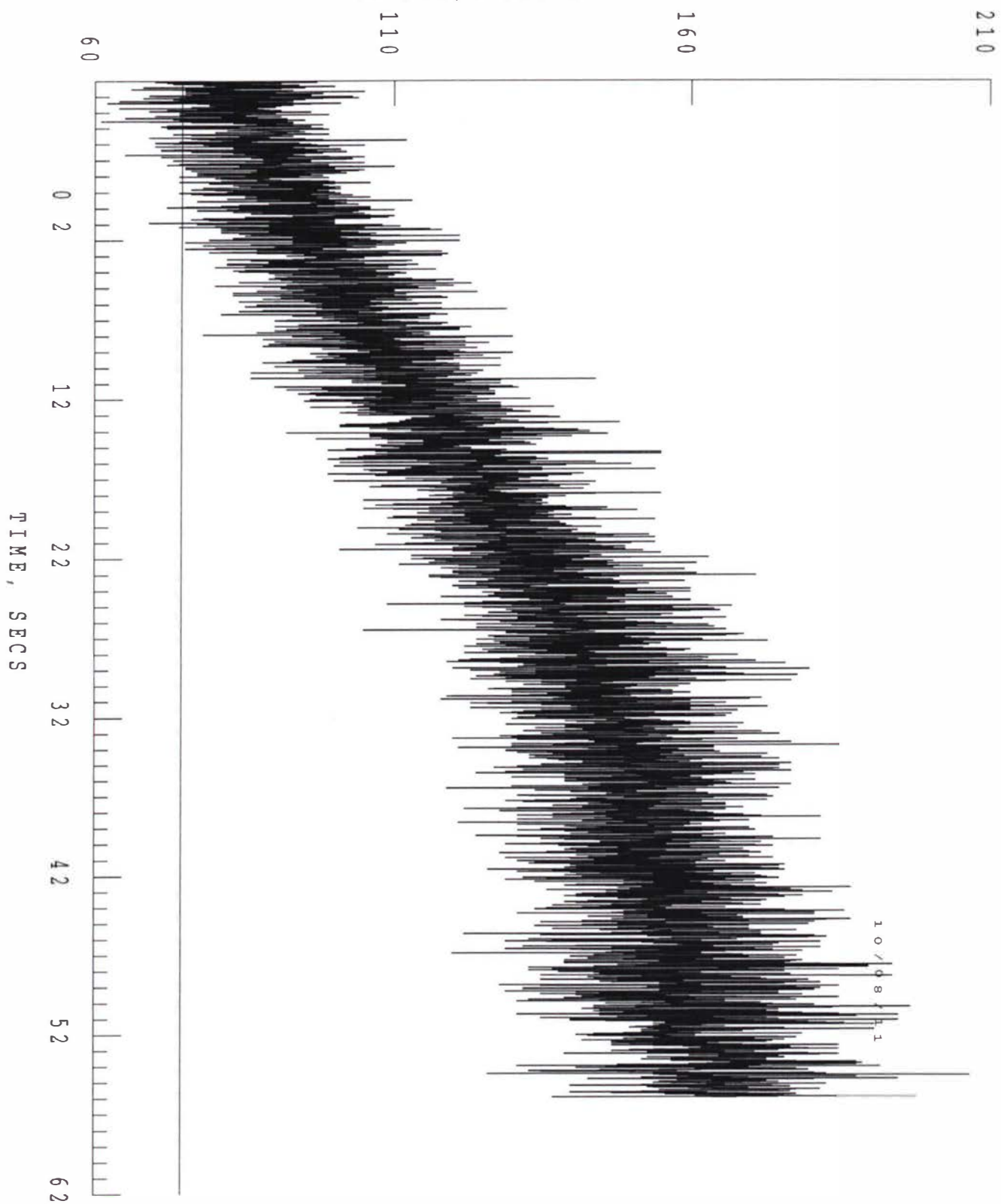
10/08/11

46217.090

50 - 240 keV

Not in Suzaku list

COUNTS/0.016 S

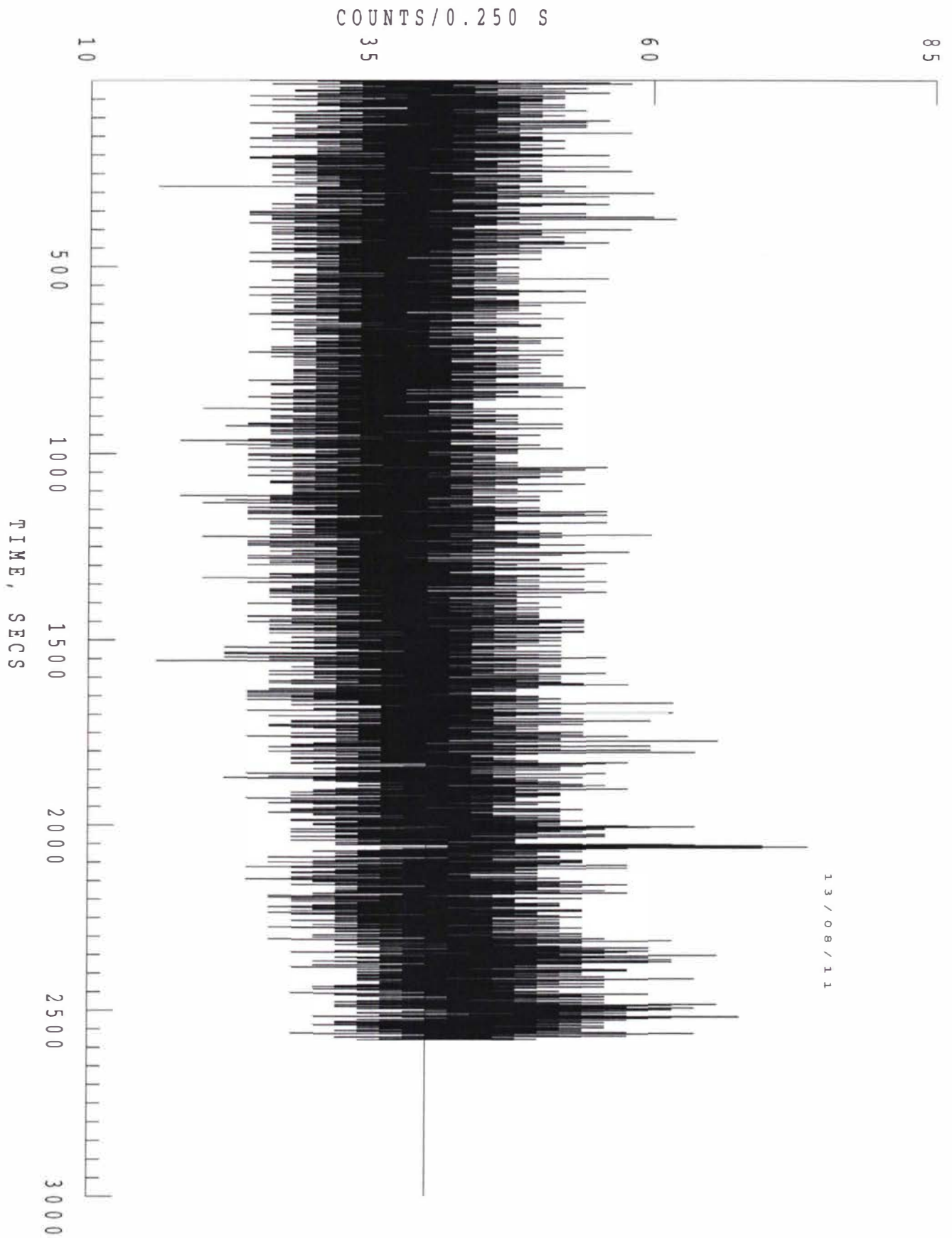


MS01

10/08/11

44900.498

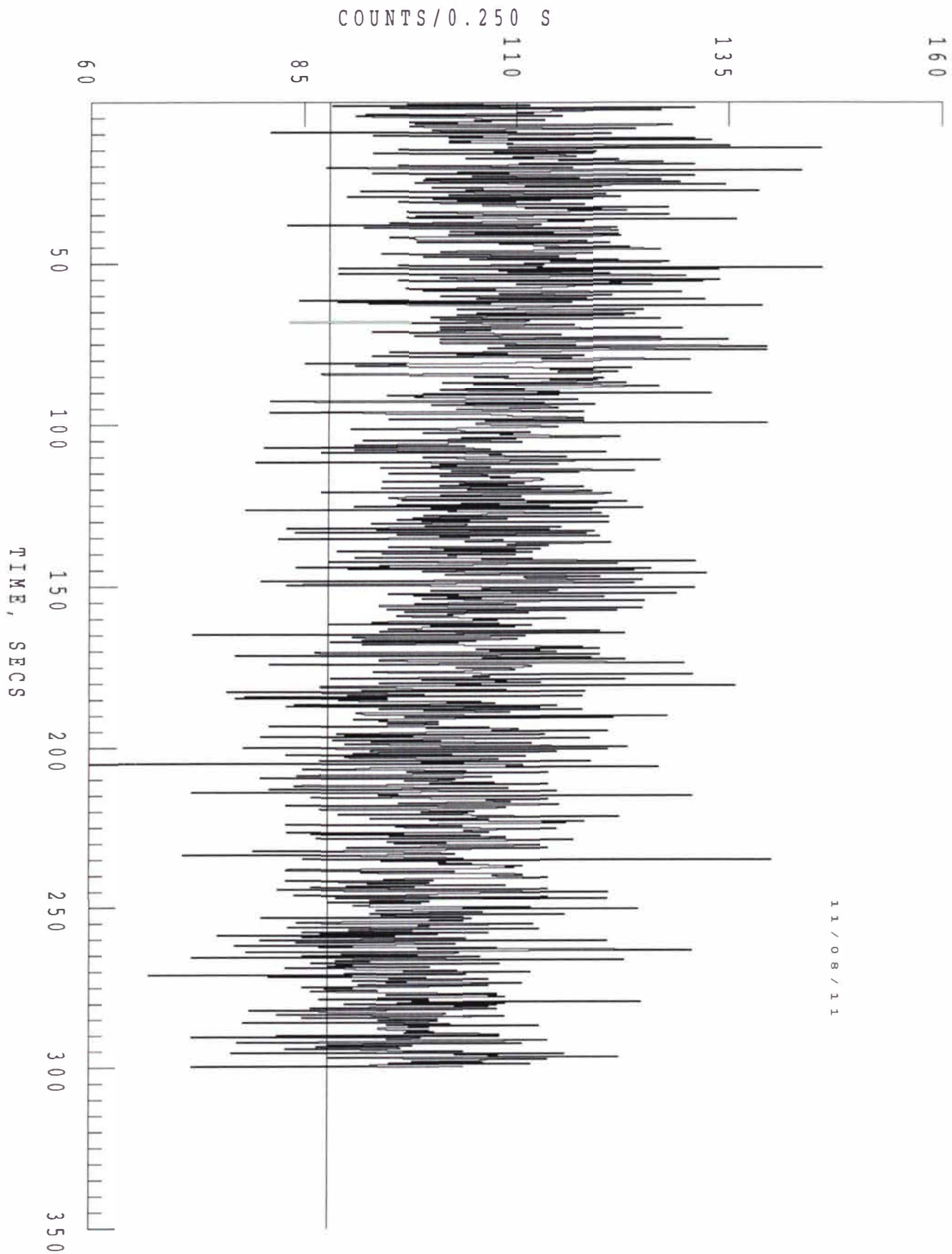
50 - 3000 keV



HESSI

10/08/11 46067.000 (SUZAKU_20110810_46217)

25- 150 keV



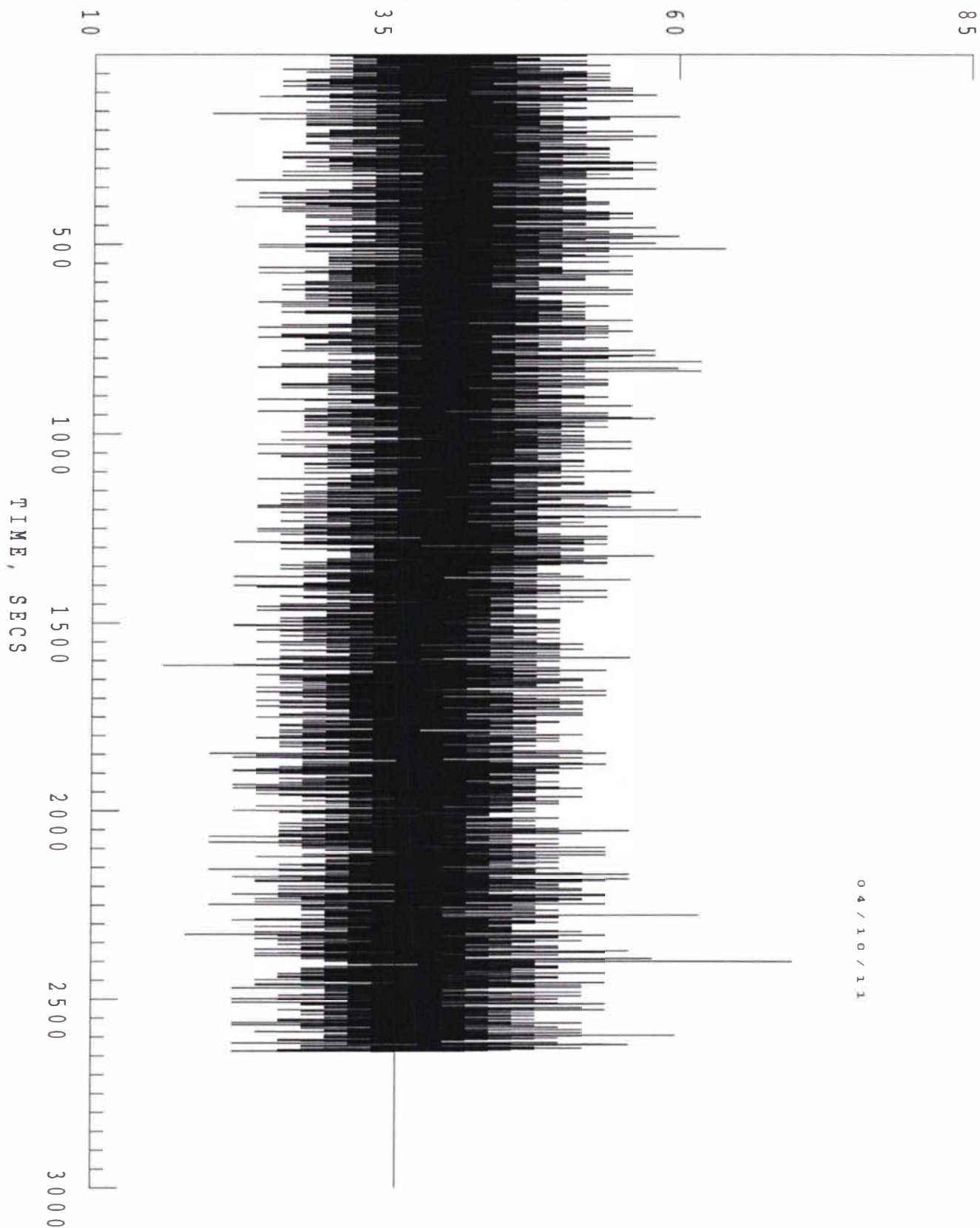
MS01

10/08/11

57860.285

50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Tue Oct 4 16:27:37 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 4 Oct 2011 16:27:07 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GBM_SGR_20110810_59188
X-Ucb-Scan-Signature: efbbeb8c6a42b8a354311f330d99379f9eeeacb9
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 4-Oct-2011 16:29:03.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0320000
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 110810_1626

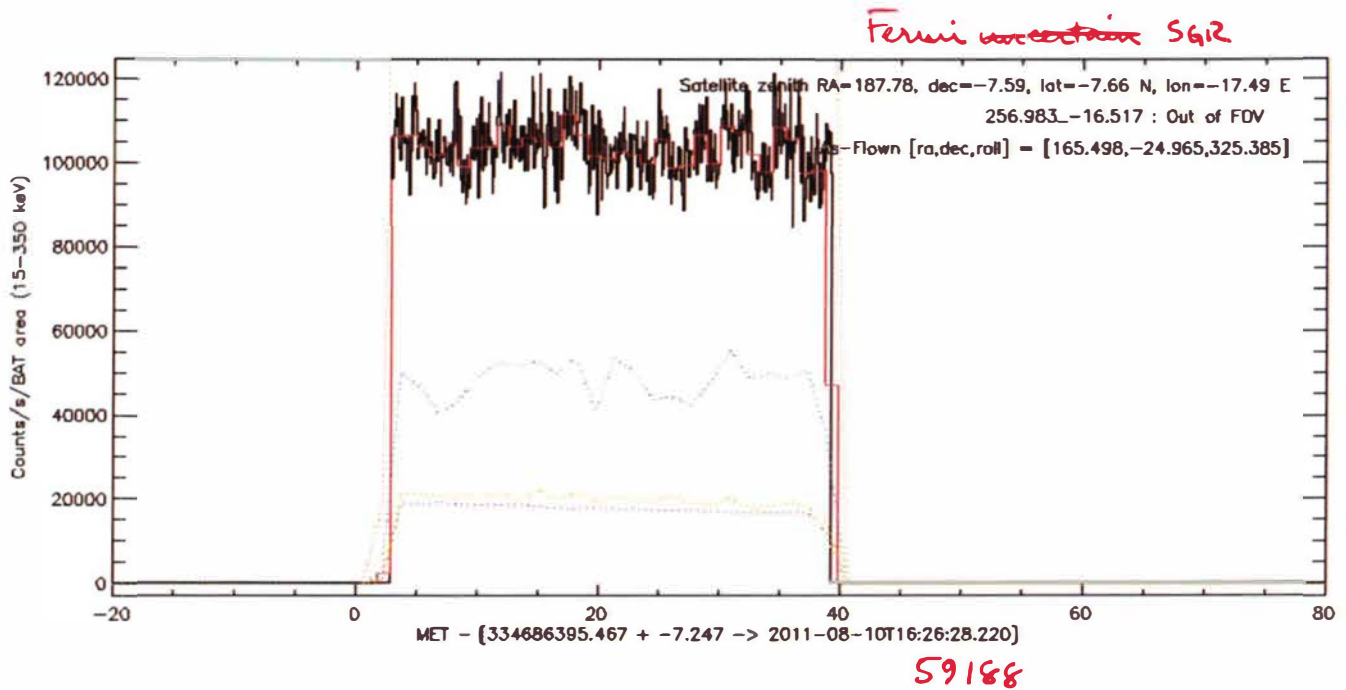
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 10 Aug 2011 16:16:54 -0600 (MDT)

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

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

/tmp/110810_1626.png



```
% /usr/local/bin/swinfo -o 334686395.467 -s 256.983_-16.517
Time(MET + UTCF -> UT):      334686395.467 + -7.247 -> 2011-08-10T16:26:28.220
Swift Zenith(RA,dec):        187.78, -7.59
Swift Location(lon,lat,alt):  -17.49 E, -7.66 N, 587 km
Obs Sequence Number:         00075071015
Obs Target Name:              saa-cold-222-06
Obs Date and Times:          2011-08-10 16:05:54 - 16:28:50
Obs Pointing(ra,dec,roll):    165.498, -24.965, 325.38
256.983_-16.517_imageloc (boresight_dist, angle): (84, 50)
256.983_-16.517_exposure (cm^2 cos adjusted): 0
256.983_-16.517_altitude: 46 (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>

/tmp/110810_1626_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110810_1626.png

/tmp/110810_1626.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit



Date: Mar 25 2013

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?

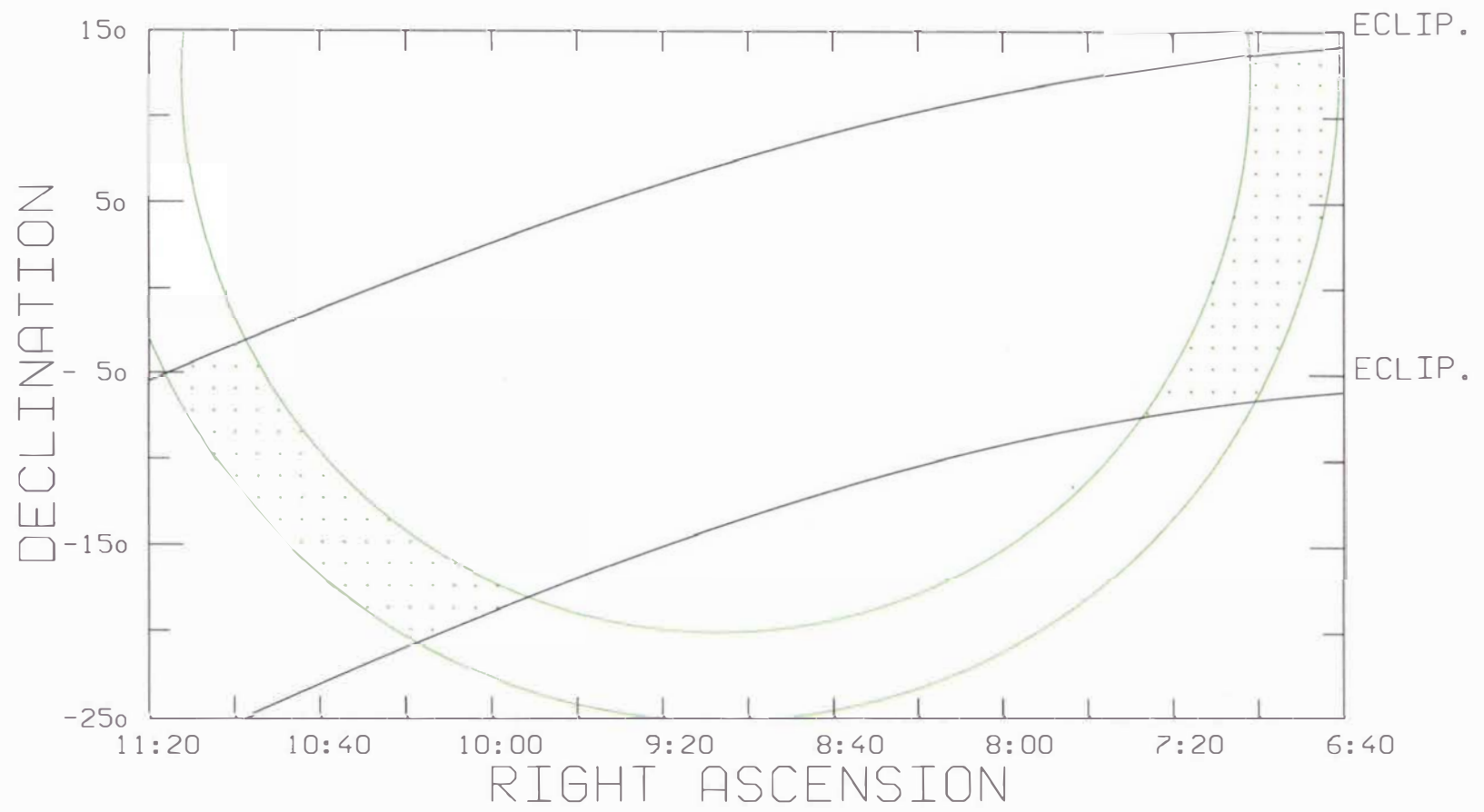
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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>)

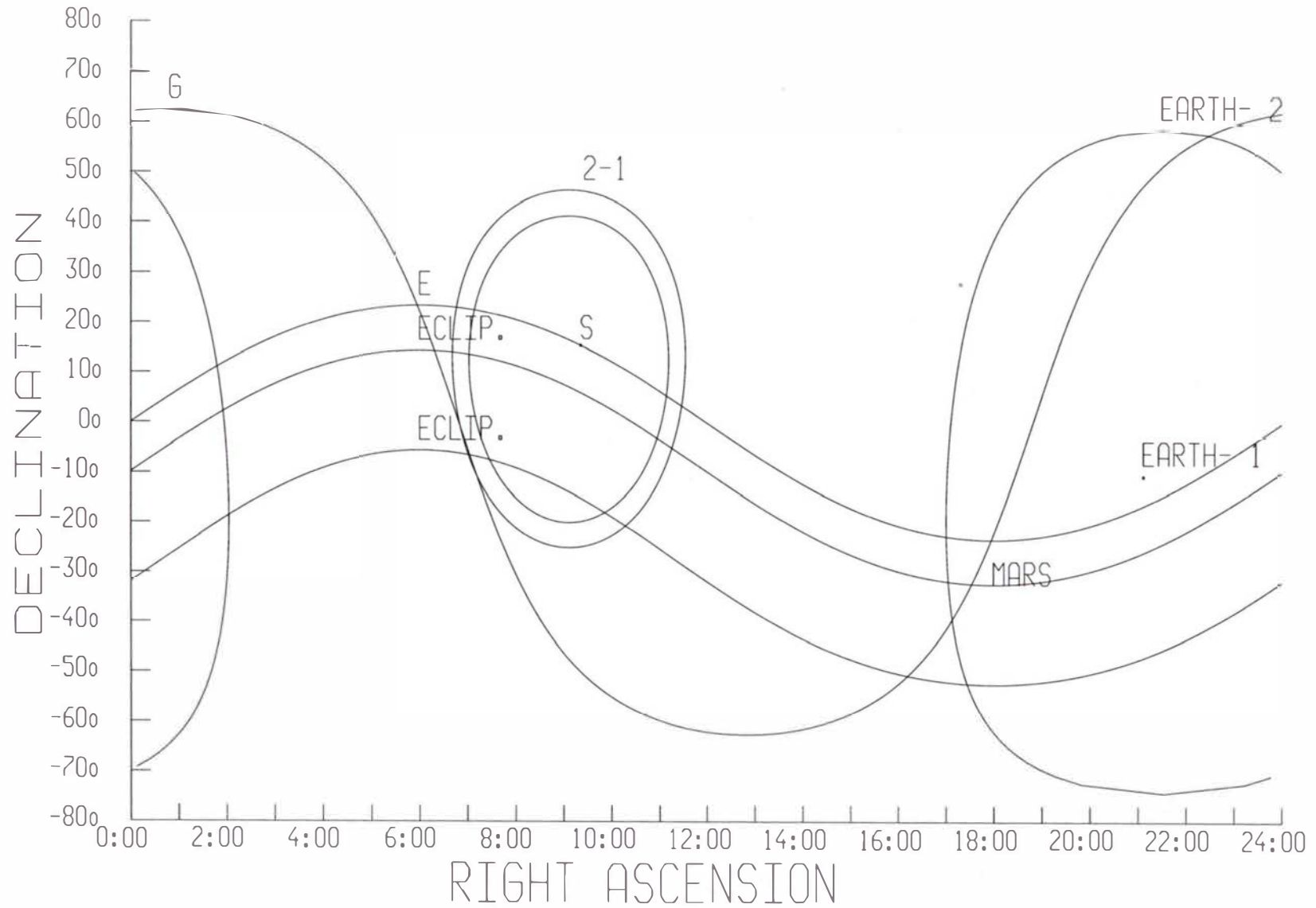
☒ ACCESS and MBL4 databases updated, with identical times?

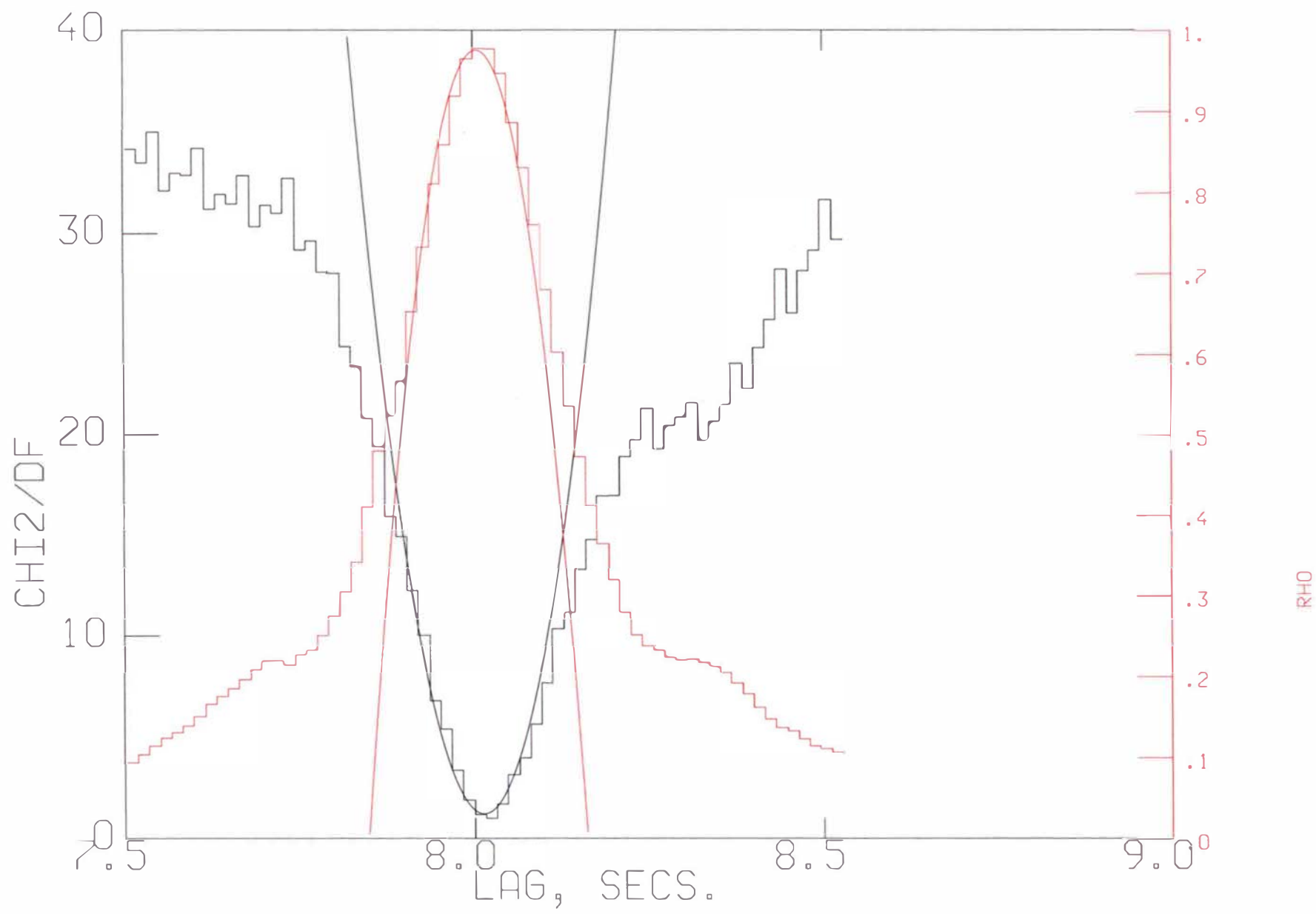


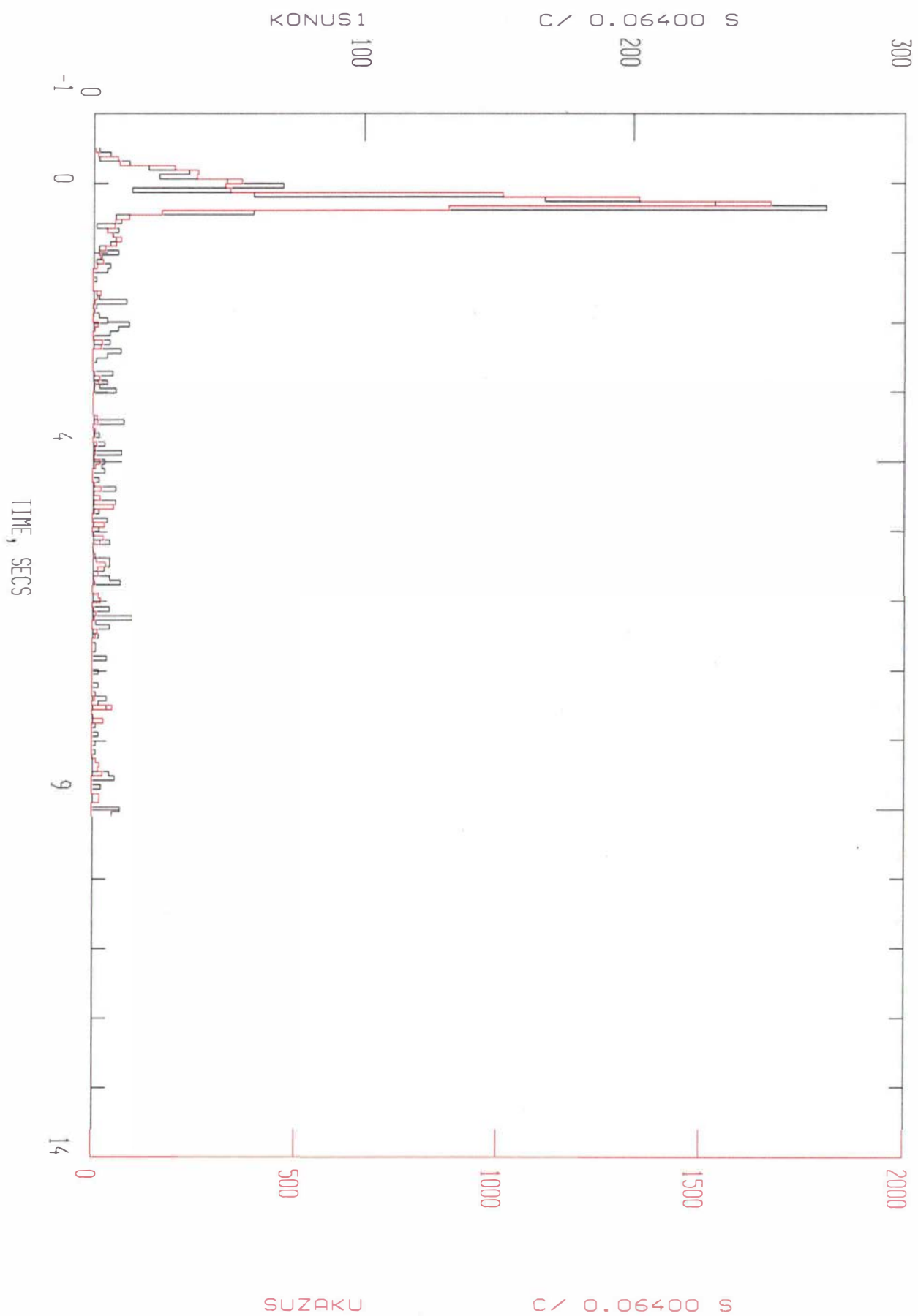
EVENT OF AUG 10, 2011 21:17

25/03/2013

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







KONUS1

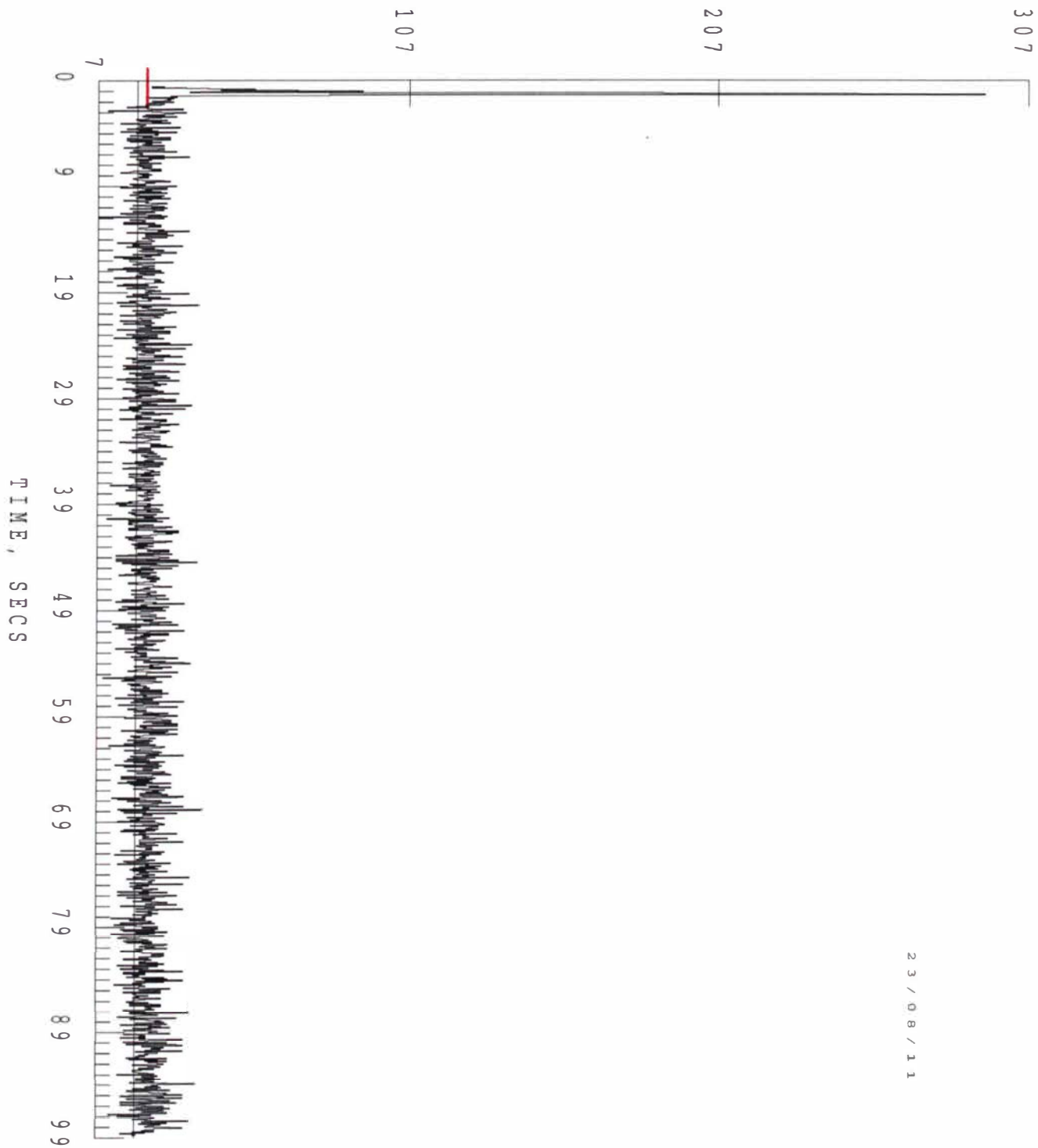
10/08/11

76626.053

21:17:06

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110810 76626

TRIGGER TIME: 10/08/11 DOY 222 Julian 2455785.38687 UT = 21.285 21:17:06 (76626.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

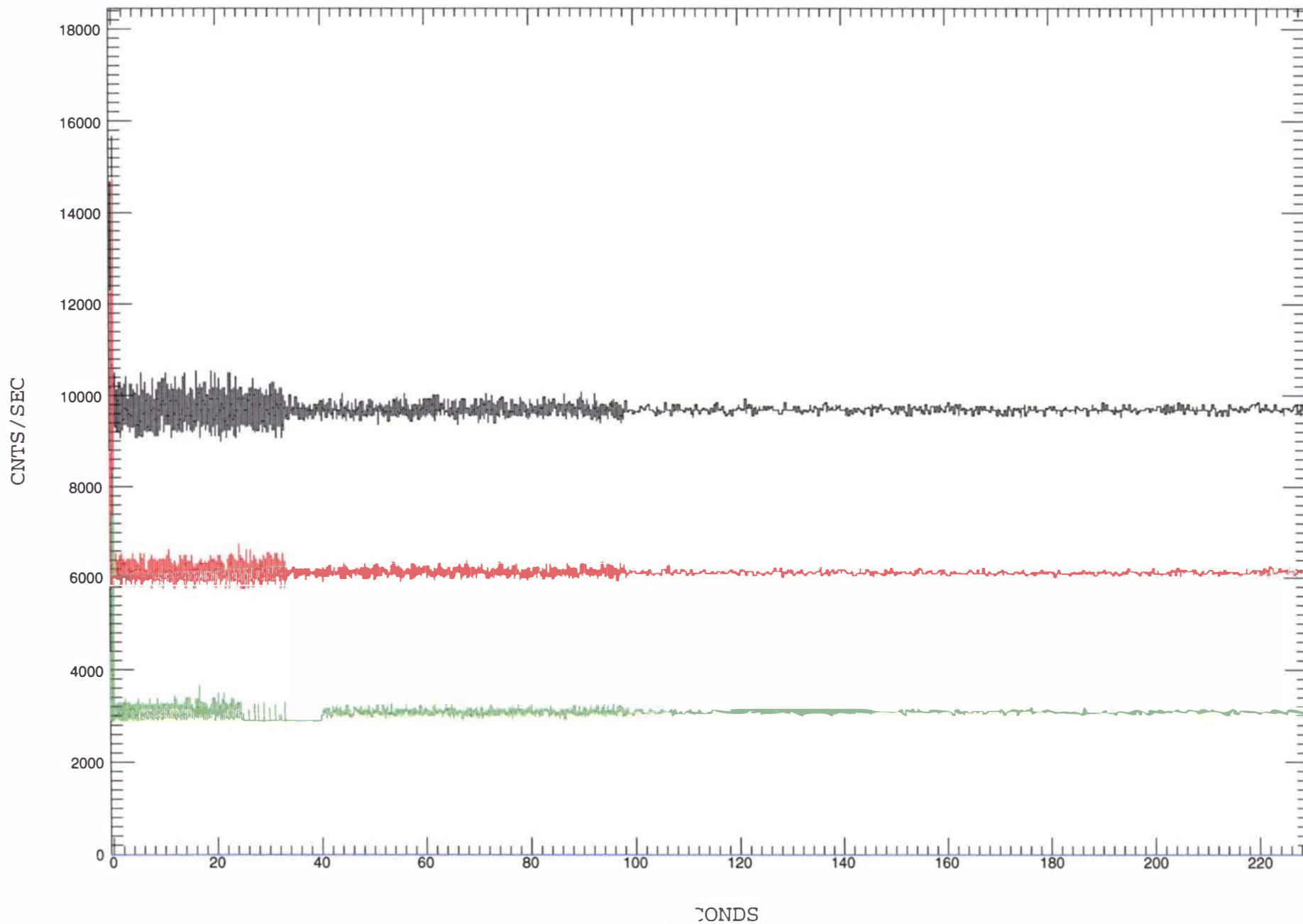
Chan 4 : [> 10 MeV]

Channel 1 + 8700

Channel 2 + 5800

Channel 3 + 2900

Channel 4 + 0



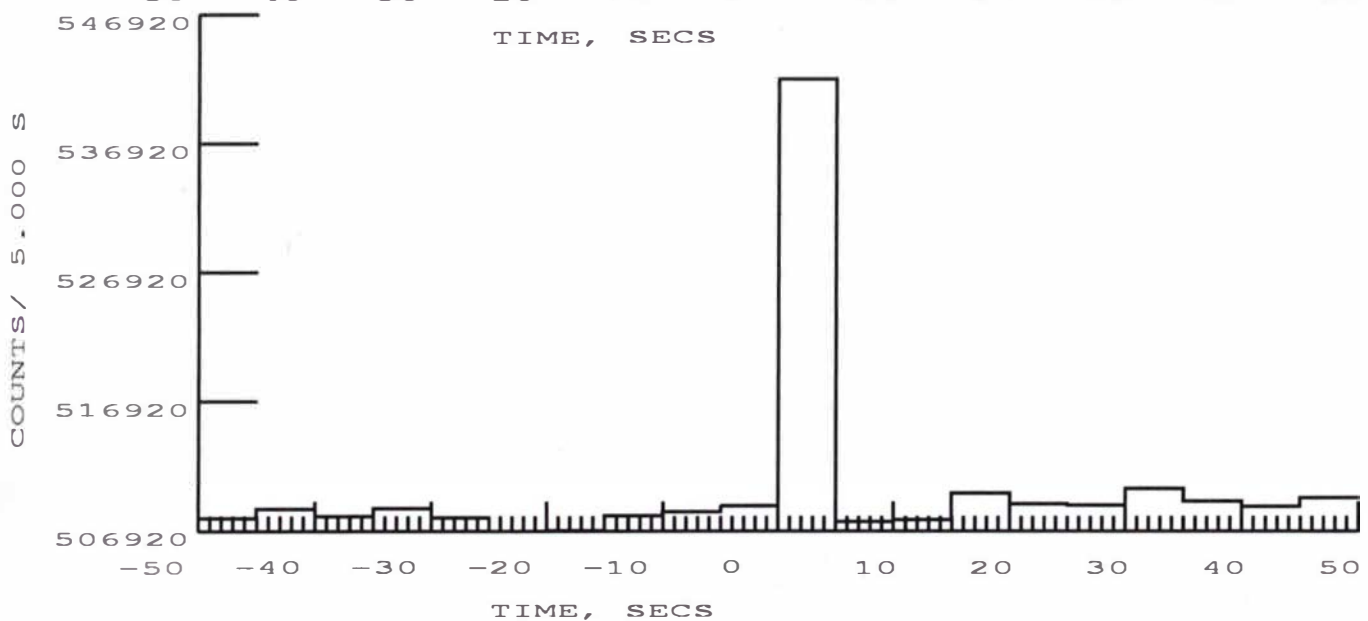
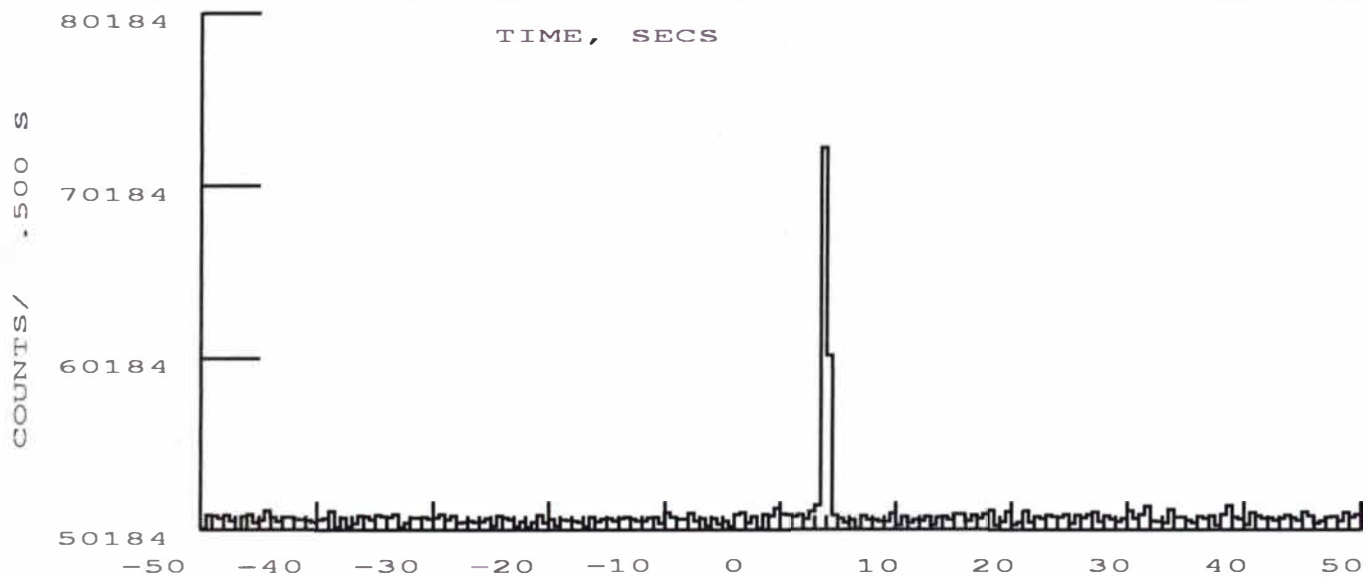
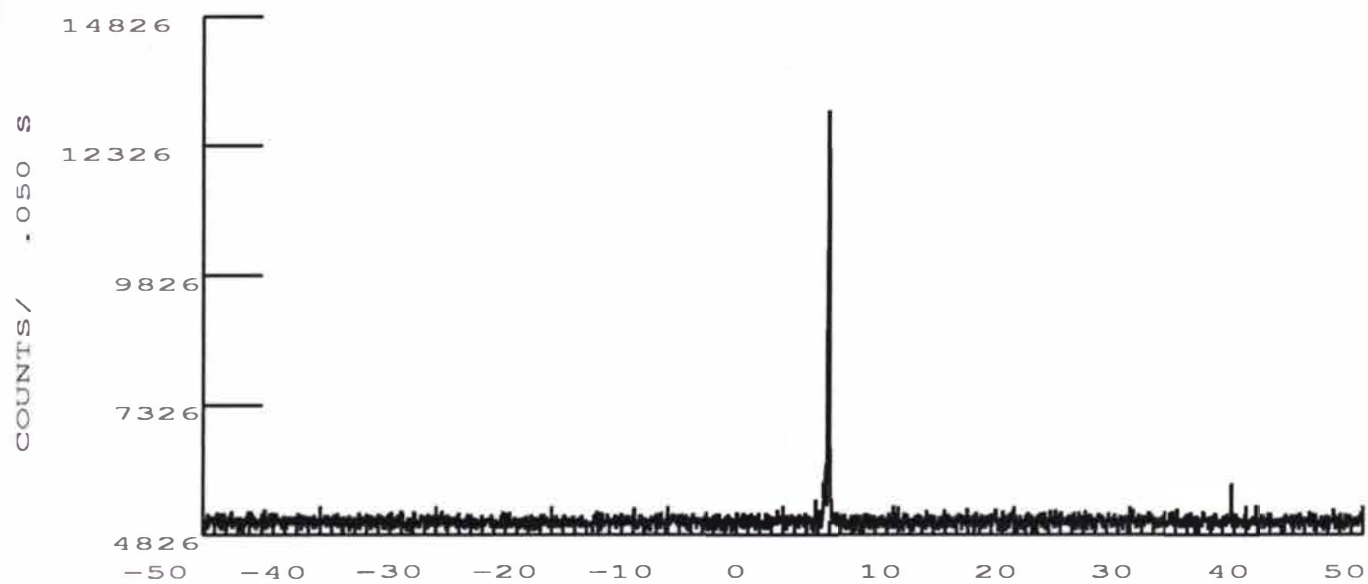
INTEGRAL

10/08/11

76626.000

21:17:06.0

20/01/14



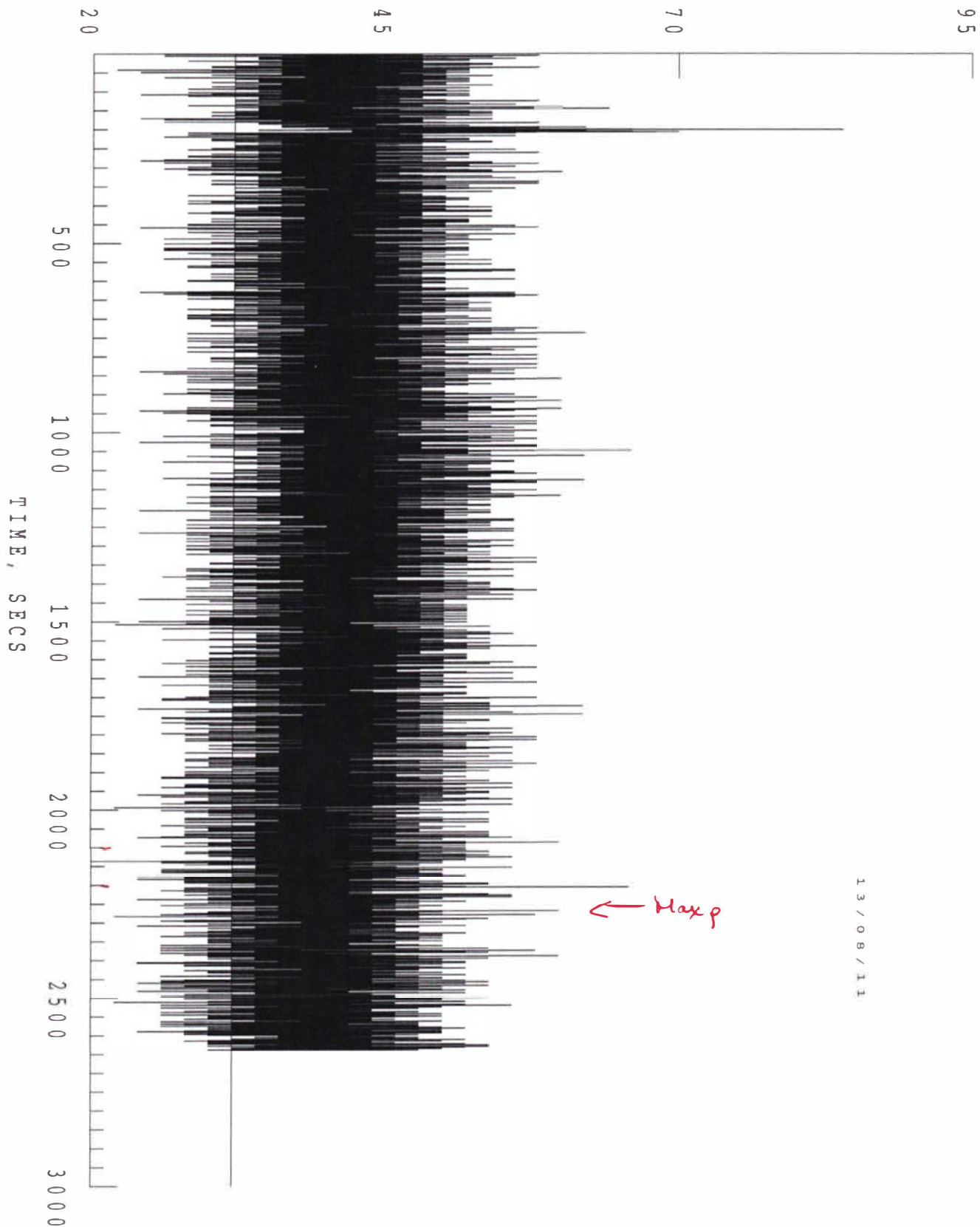
MS01

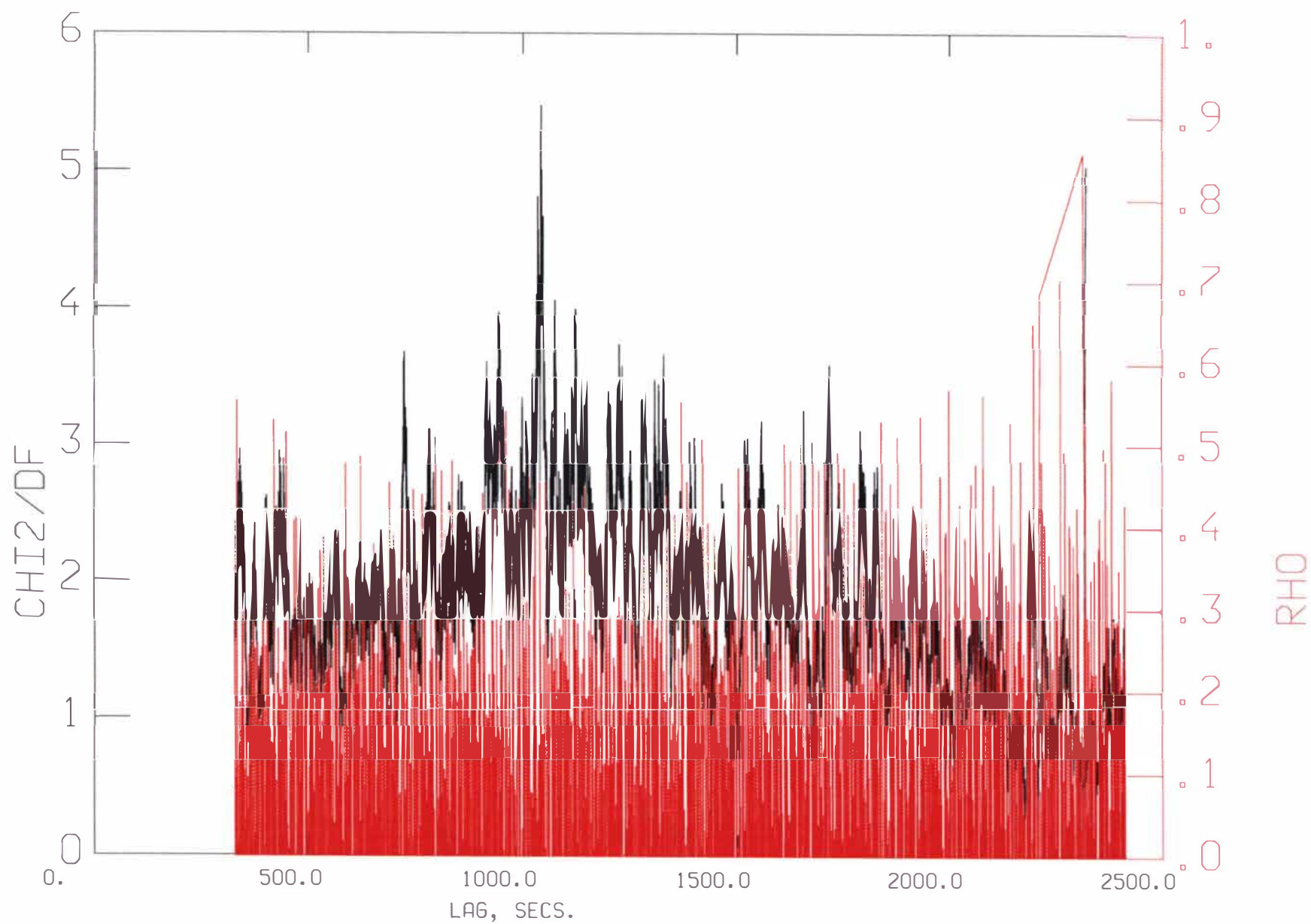
10/08/11

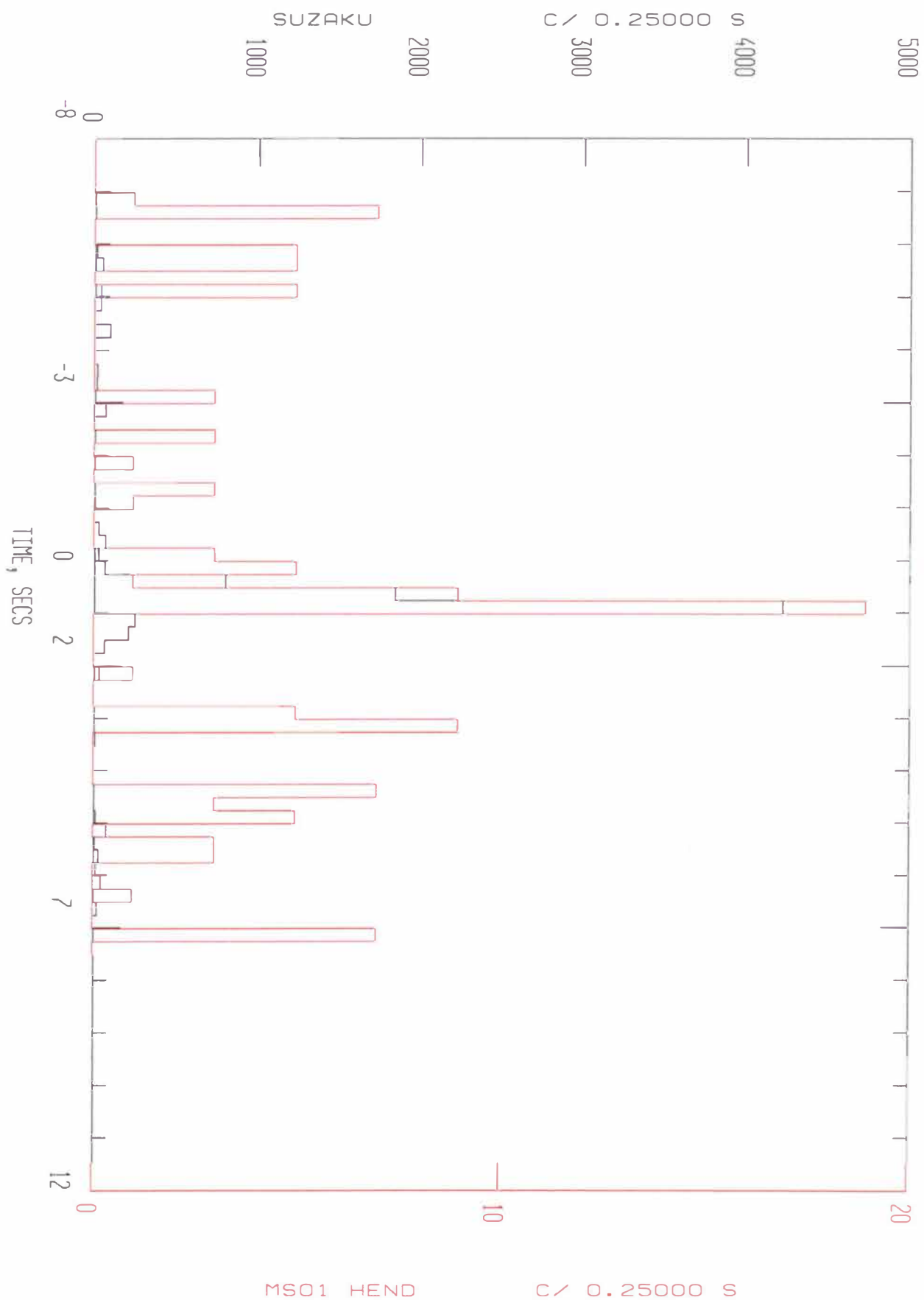
75259.987

50 - 3000 keV

COUNTS/0.250 S







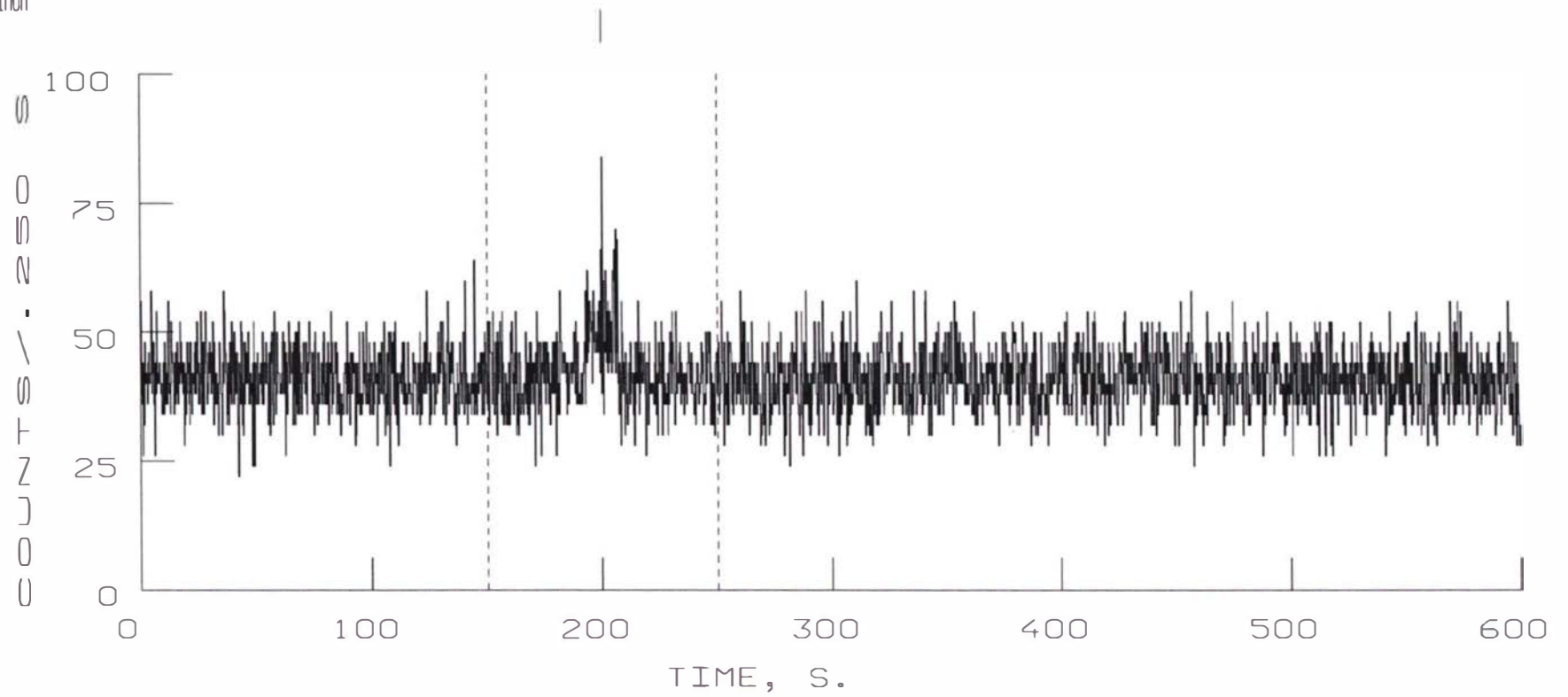
MS01 HEND

15/08/2011

10/08/2011 75259.984 s

50-3000 keV

MAXIMUM



From williams@gammaburst.ssl.berkeley.edu Mon Aug 15 23:02:54 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 15 Aug 2011 23:02:08 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
o: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS1_20110810_76626
X-Ucb-Scan-Signature: 43070ae364cc8c9838d727f4643e16d357622a40
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.988'
X-Ucb-Notice: This message has been processed by a spam tagging system.

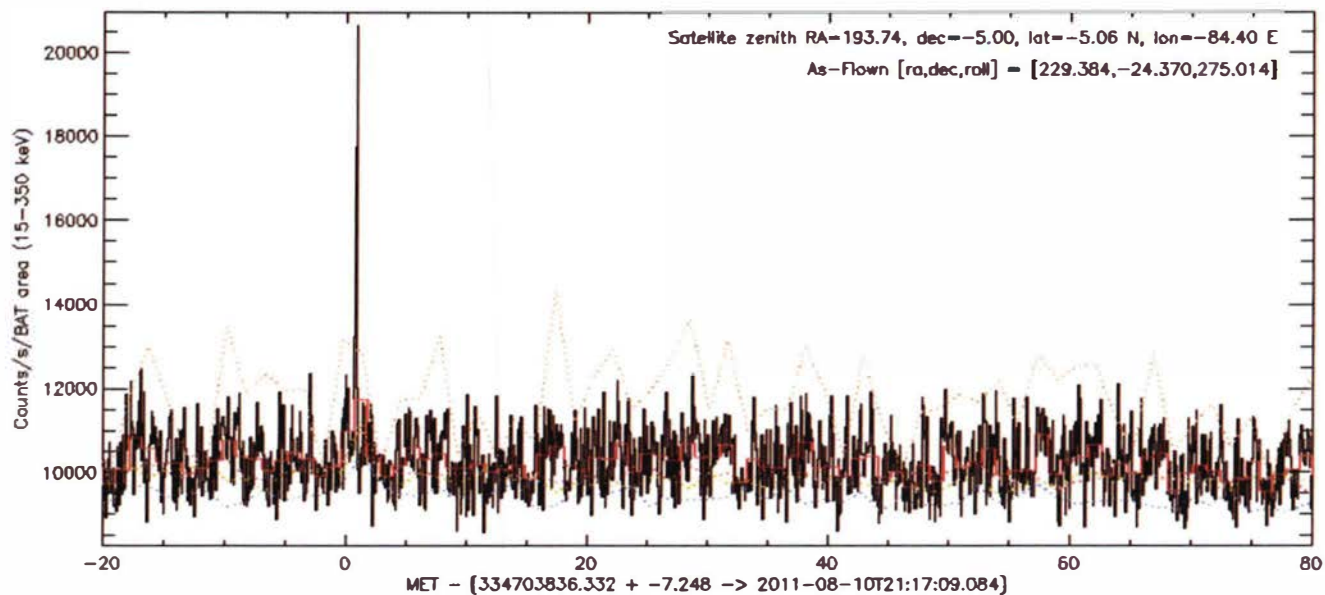
HESSI 25 to 150 keV Counts
Created 15-Aug-2011 23:02:30.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: Re: [Ipn] Short hard burst GRB 110810A detected by Suzaku WAM
From: David Palmer <palmer@lanl.gov>
Date: Thu, 11 Aug 2011 09:00:10 -0600
To: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
CC: ipn@ssl.berkeley.edu

We see it.

BAT triggering was disabled for a software upgrade, and there are some noisy detectors, so we won't have event by event data.

110810_2117.png



On Aug 11, 2011, at 12:47 AM, Kazutaka Yamaoka wrote:

Dear all,

A short hard GRB110810A triggered the Suzaku WAM on
2011-08-10 21:17:09.084 (UT).
Attached is the WAM0+1+2+3 light curve in all the energy ranges.
The duration T90 was about 0.55 seconds. The signals can be
seen up to the TH3 band (above 600 keV).

Any other detections ?

Best wishes,

Kazu

<20110810211709_wam_lc.gif>

Ipn mailing list

ipn@ssl.berkeley.edu

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

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

Ipn mailing list

ipn@ssl.berkeley.edu

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

110810_2117.png	Content-Type: image/png Content-Encoding: base64
-----------------	---

Part 1.3

Part 1.3	Content-Type: text/plain Content-Encoding: 7bit
----------	--

110810_2117_bat64ms_ipn

110810_2117_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: 7bit
-------------------------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.6

Part 1.6	Content-Type: text/plain Content-Encoding: 7bit
----------	--

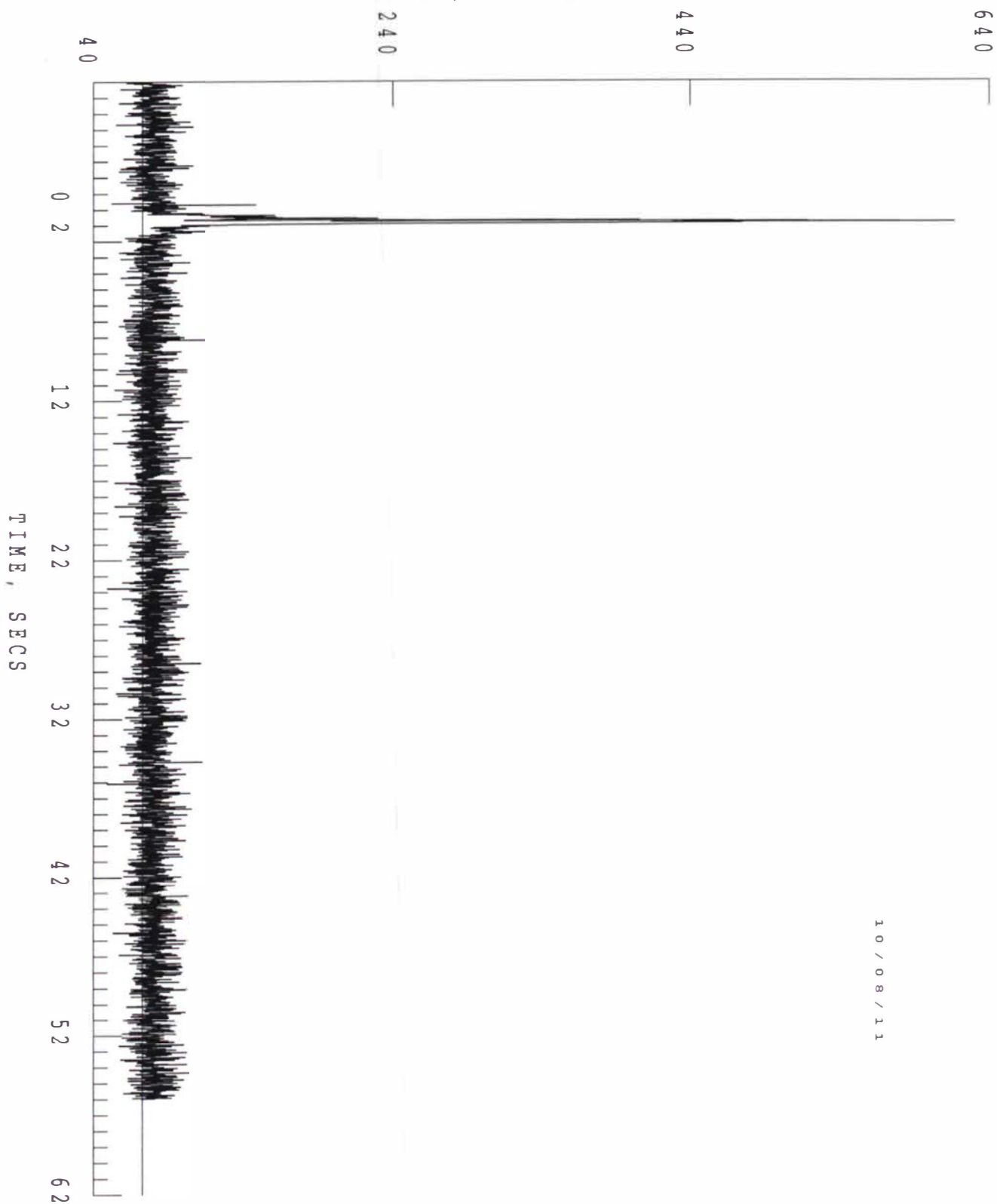
SUZAKU

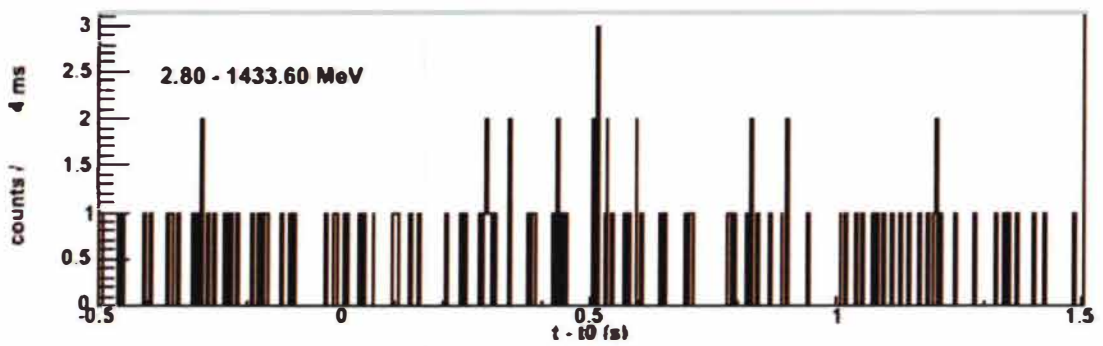
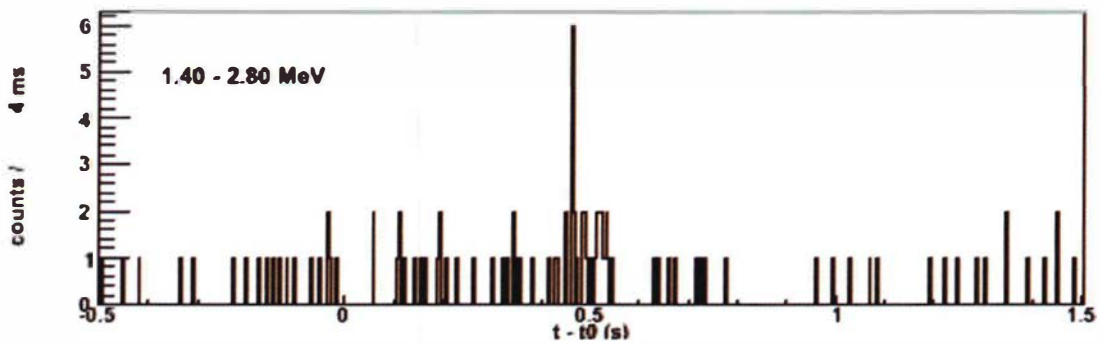
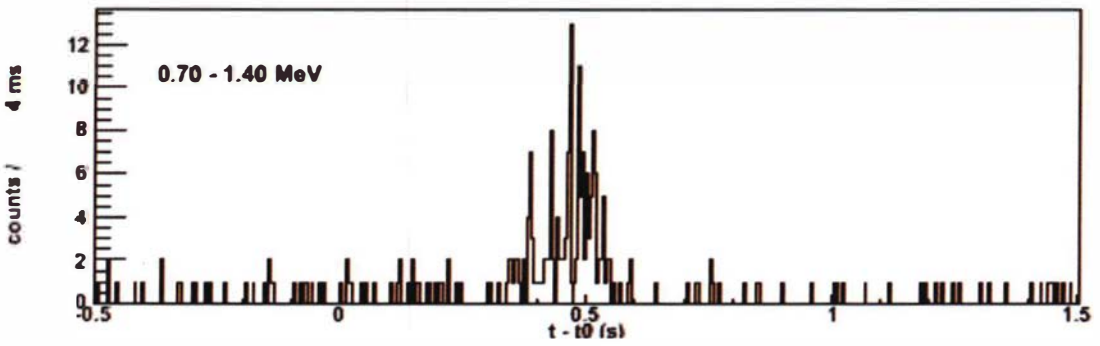
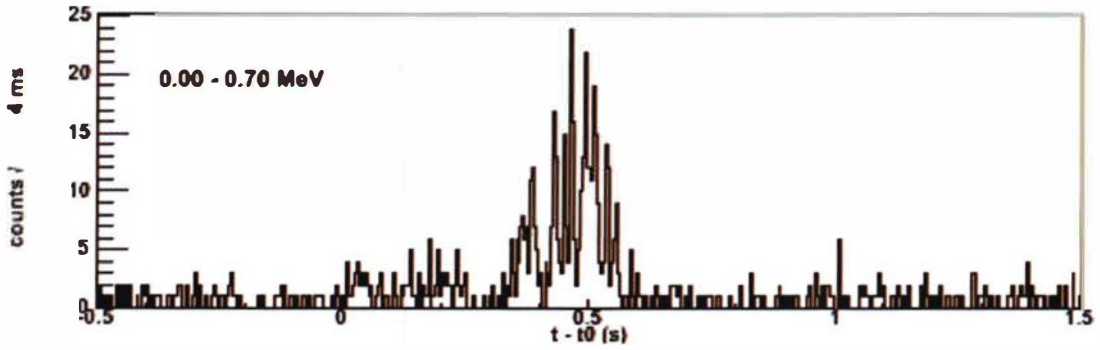
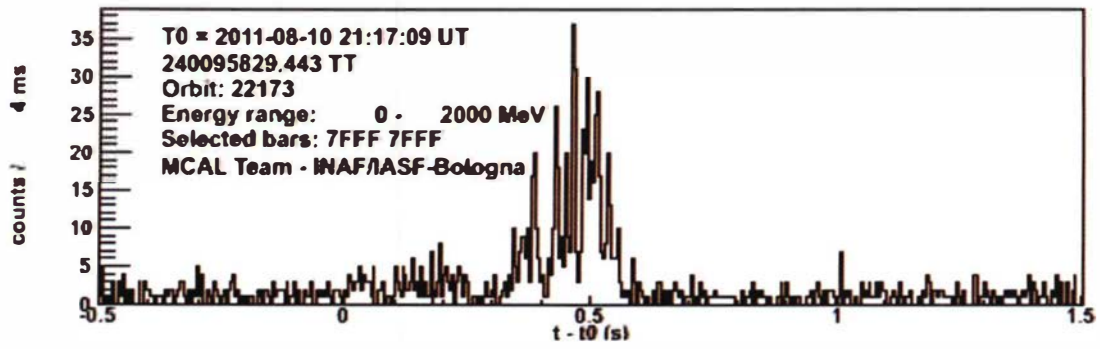
10/08/11

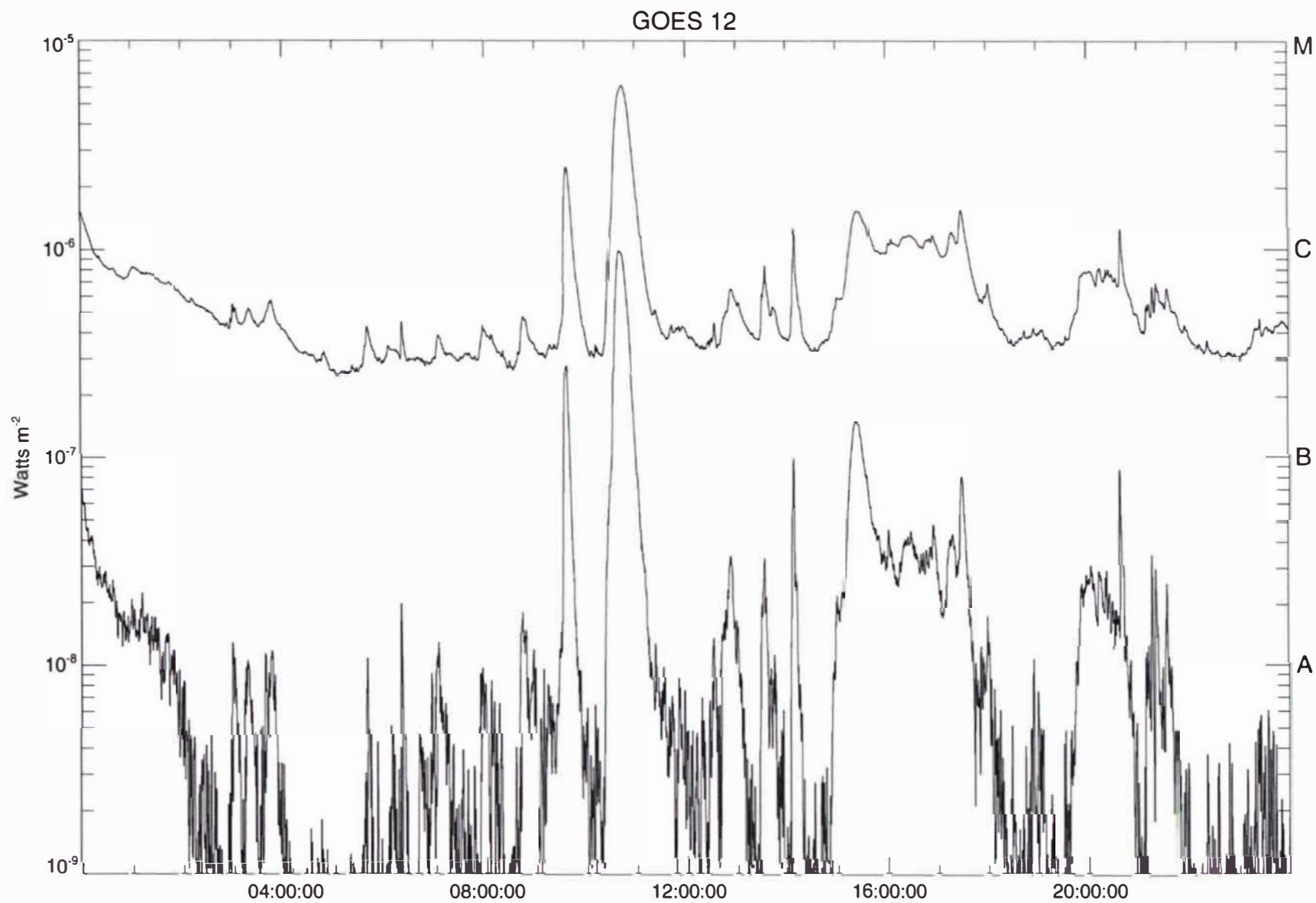
76629.085

50- 240 keV

COUNTS/0.016 S







Data Start: 11/08/10, 0000:09

Plot created: 11/08/13, 0832

Channel

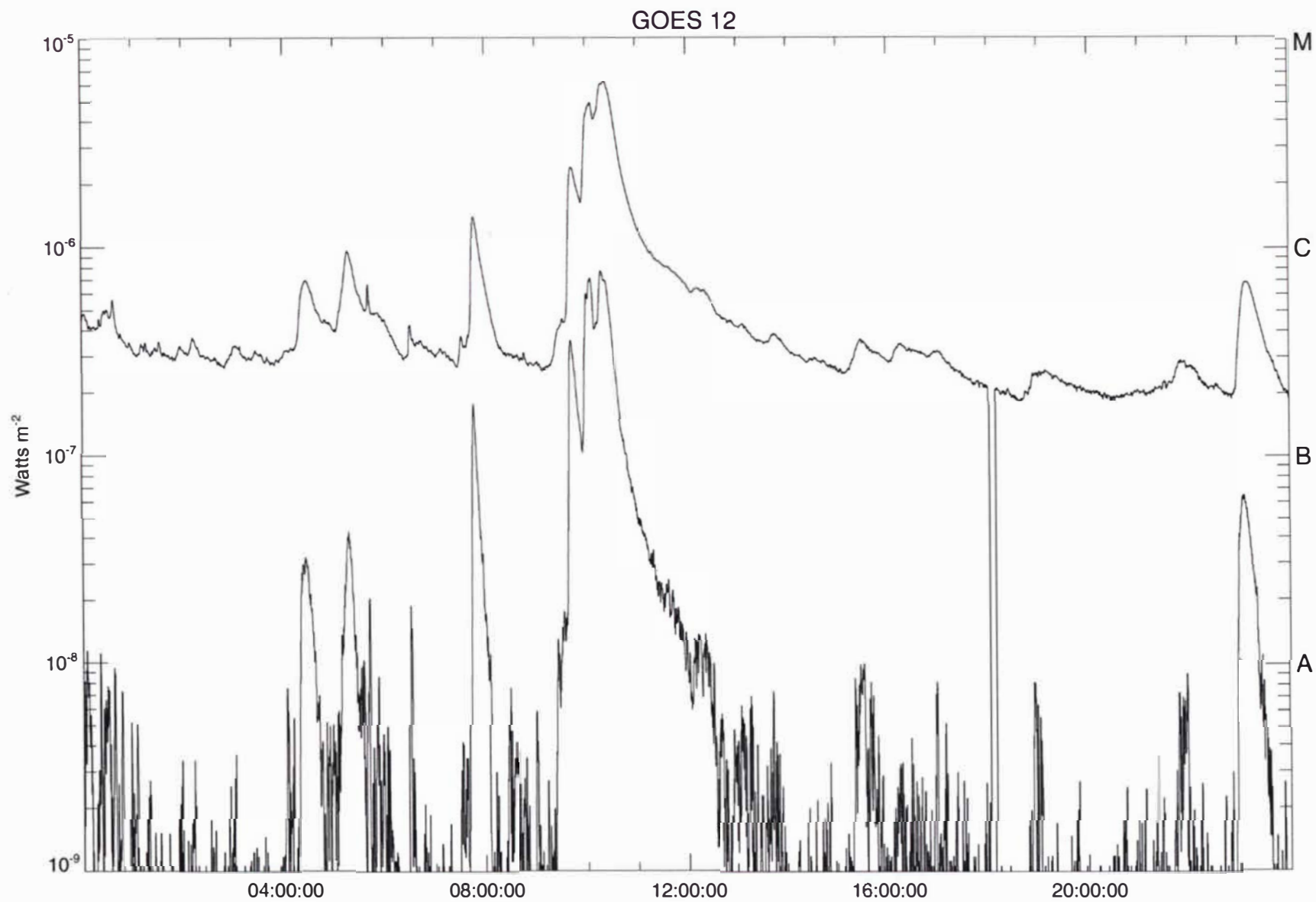
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10



Data Start: 11/08/11, 0000:09

Plot created: 11/08/14, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

From gncirc@capella2.gsfc.nasa.gov Fri Aug 12 00:38:03 2011
X-Barracuda-Envelope-From: gncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gncirc@capella2.gsfc.nasa.gov>
Subject: GRB 110812A: SuperAGILE localization of a long GRB.
cc: khurley@ssl.berkeley.edu
Date: Fri, 12 Aug 2011 03:38:43 -0400 (EDT)
X-Ucb-Scan-Signature: 031f8b7de9ad2239e7a5d63d5ce3bc218f6031c4
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 12274
SUBJECT: GRB 110812A: SuperAGILE localization of a long GRB.
DATE: 11/08/12 07:38:41 GMT
FROM: Marco Feroci at IASF/INAF <sa.grb@iasf-roma.inaf.it>

E. Del Monte, I. Donnarumma, Y. Evangelista, M. Feroci, F. Lazzarotto, L. Pacciani, P. Soffitta, E. Costa, I. Lapshov, M. Rapisarda (INAF/IASF Rome), G. Barbiellini, F. Longo, E. Moretti (INFN Trieste), A. Bulgarelli, F. Gianotti, M. Trifoglio, G. Di Cocco, C. Labanti, F. Fuschino, M. Marisaldi, M. Galli (INAF/IASF Bologna), A. Giuliani, A. Chen, S. Mereghetti, F. Perotti, P. Caraveo (INAF/IASF Milan), M. Tavani, G. Pucella, V. Vittorini, A. Argan, A. Trois, M. Cardillo, G. Piano, S. Sabatini (INAF/IASF Rome), A. Pellizzoni, M. Pilia (INAF/OA Cagliari), S. Vercellone, F. D'Ammando (INAF/IASF Palermo), P. W. Cattaneo, A. Rappoldi (INFN Pavia), P. Picozza, A. Morselli, E. Striani, (INFN Roma-2), M. Prest, E. Vallazza (Universita' dell'Insubria), P. Lipari, D. Zanello (INFN Roma-1), P. Giommi, C. Pittori, F. Lucarelli, P. Santolamazza, F. Verrecchia (ASDC) and L. Salotti (ASI), on behalf of the AGILE Team, report:

"SuperAGILE detected a gamma ray burst on 12 August 2011, at 00:20:08 UT. The event had a duration of about 30 s in the 20-60 keV energy range, with a multi peak structure. Assuming a crab-like energy spectrum, the peak flux on 1-s timescale was $8.91E-08$ erg/cm²/s. The burst position was reconstructed as (RA, Dec) (358.409, 72.206) deg, which is:

RA(J2000) = 23h 53m 38.15s
Dec(J2000) = 72d 12' 23.32"

with an uncertainty of 3' radius. The given uncertainty accounts for both the statistical and systematic errors.

An analysis of the AGILE Gamma Ray Imager (GRID) data is in progress."

This message may be cited.

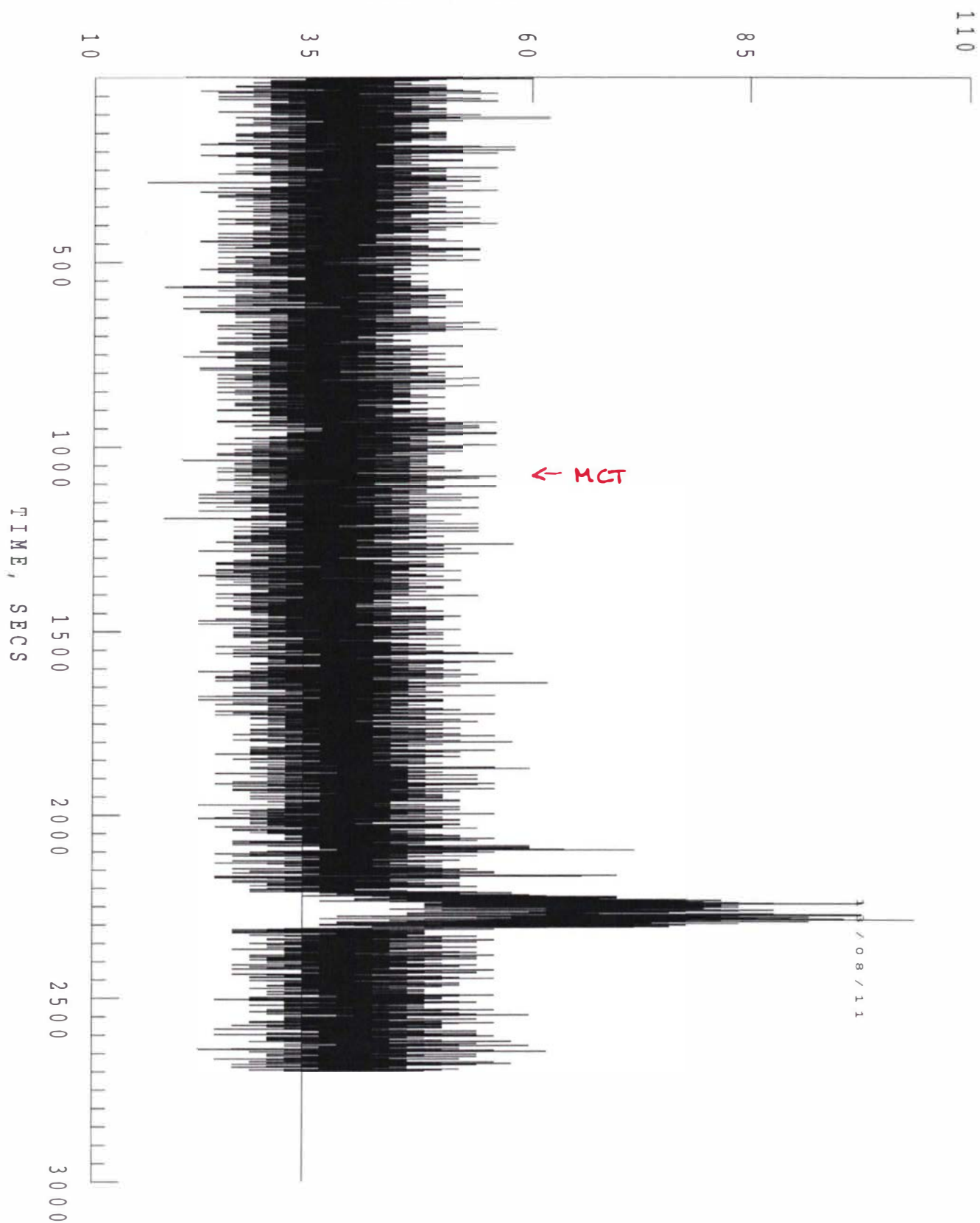
MS01

11/08/11

86238.353

50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Wed Aug 17 23:02:56 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Wed, 17 Aug 2011 23:02:10 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI_data_for AGILE_20110812_01208
X-Ucb-Scan-Signature: 8f43f2202dfcf2a940df7d162ad148f47222244d
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -1.137'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 17-Aug-2011 23:02:34.00
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

29/09/11

MESSENGER

12/08/11

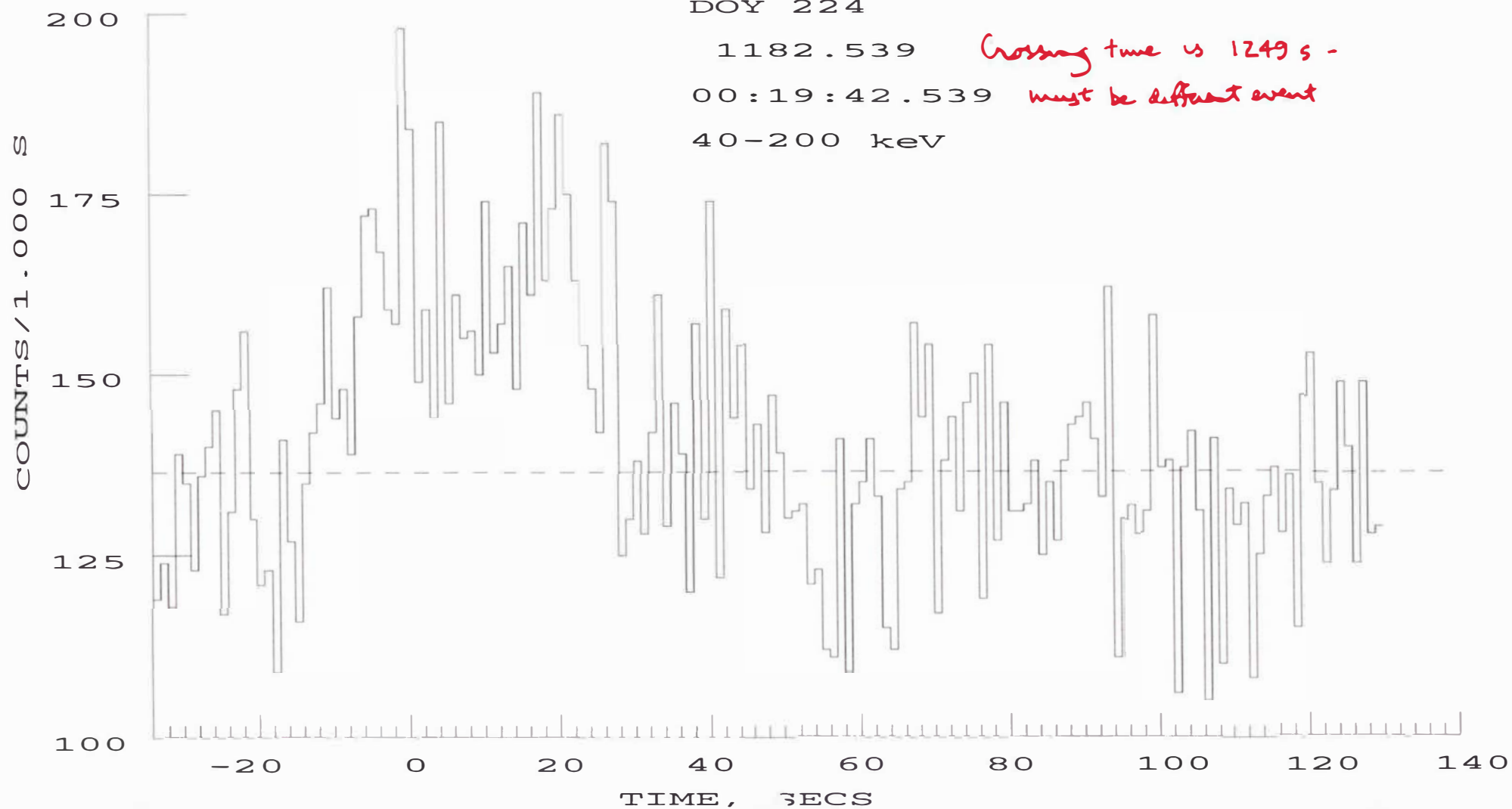
DOY 224

1182.539

00:19:42.539

40-200 keV

*Crossing time is 1249 s -
must be different event*



GLAST

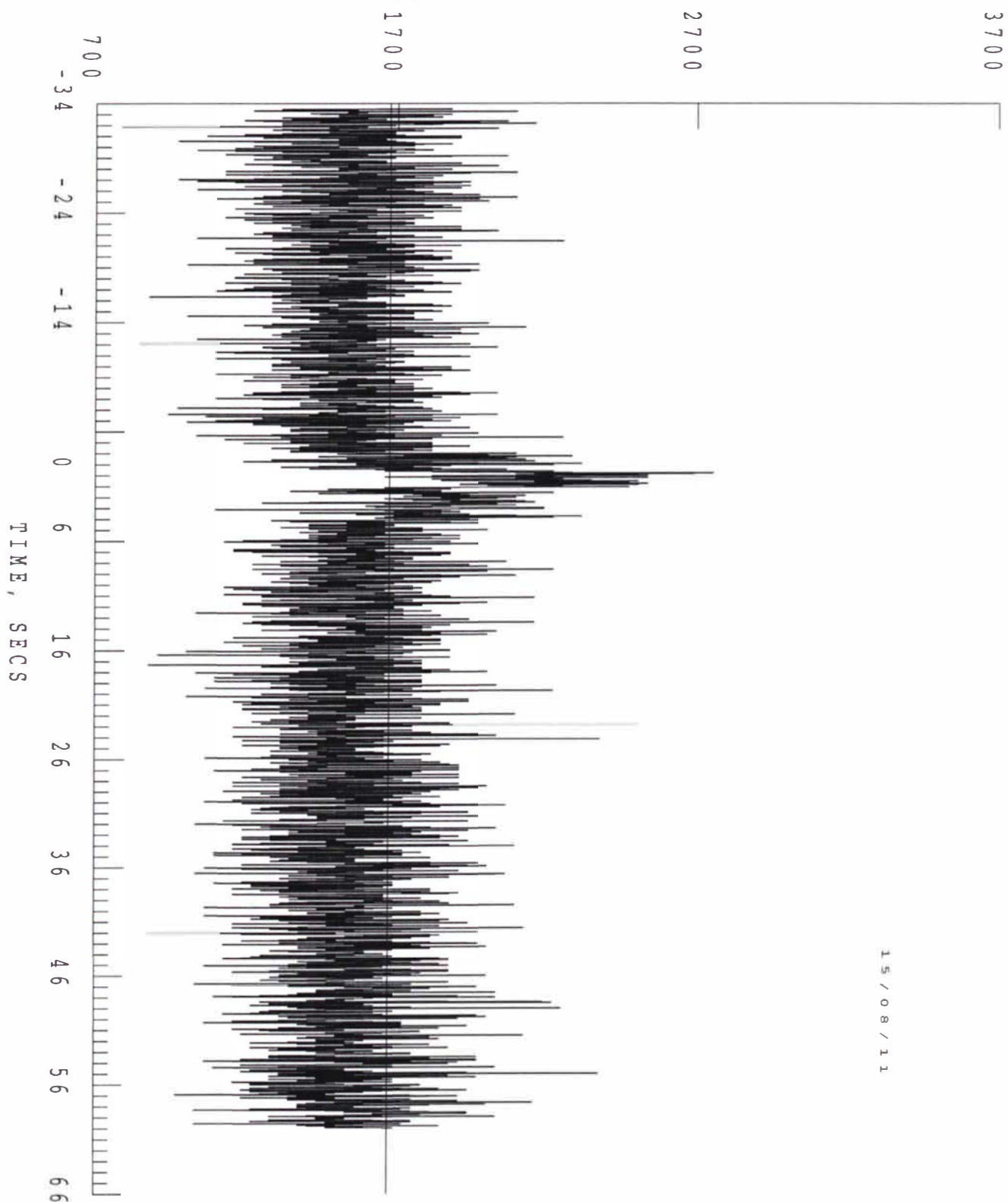
12/08/11

77708.607 21:35:08

26- 293 keV

77.76, 1.71, 2.49

COUNTS/0.032 S

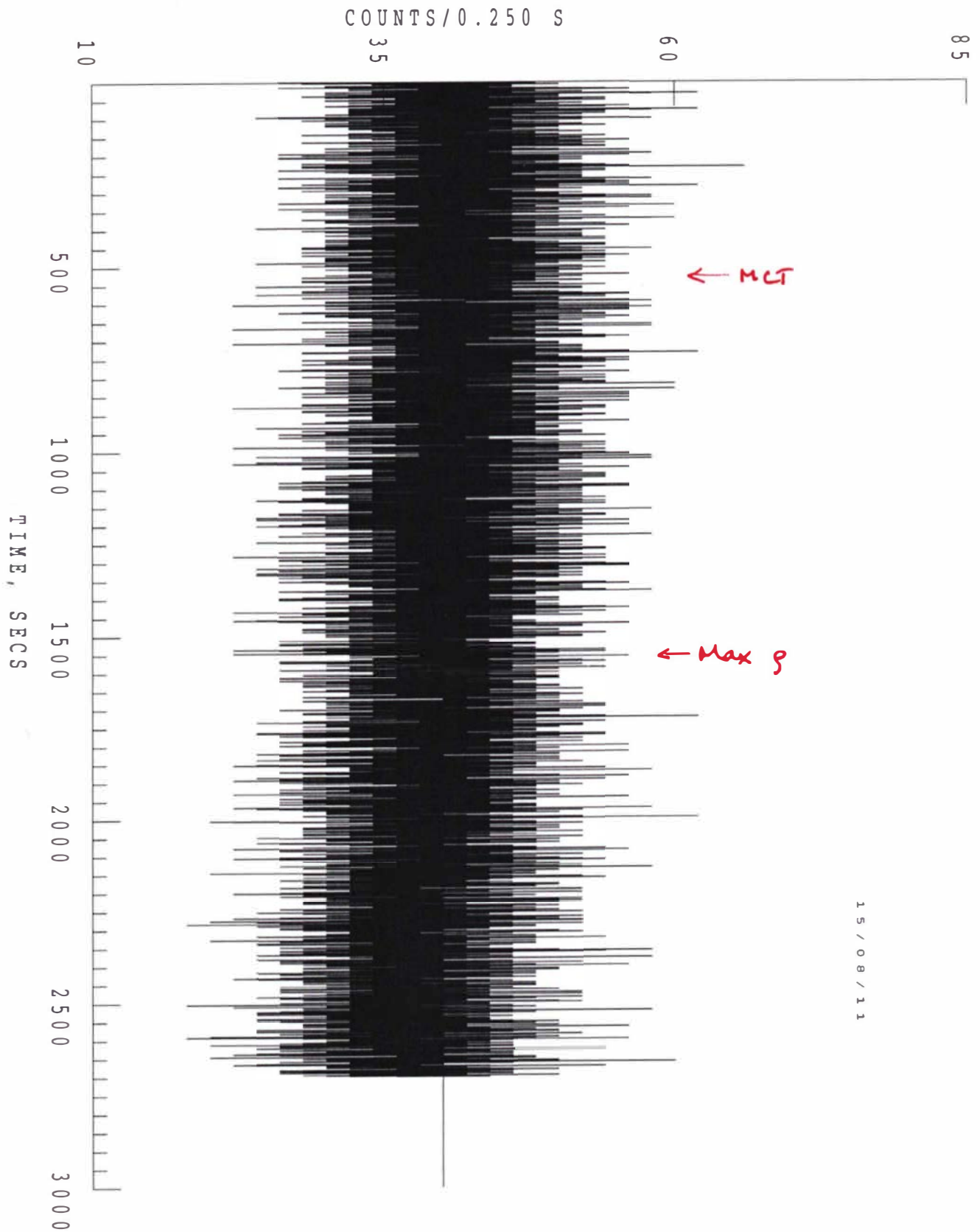


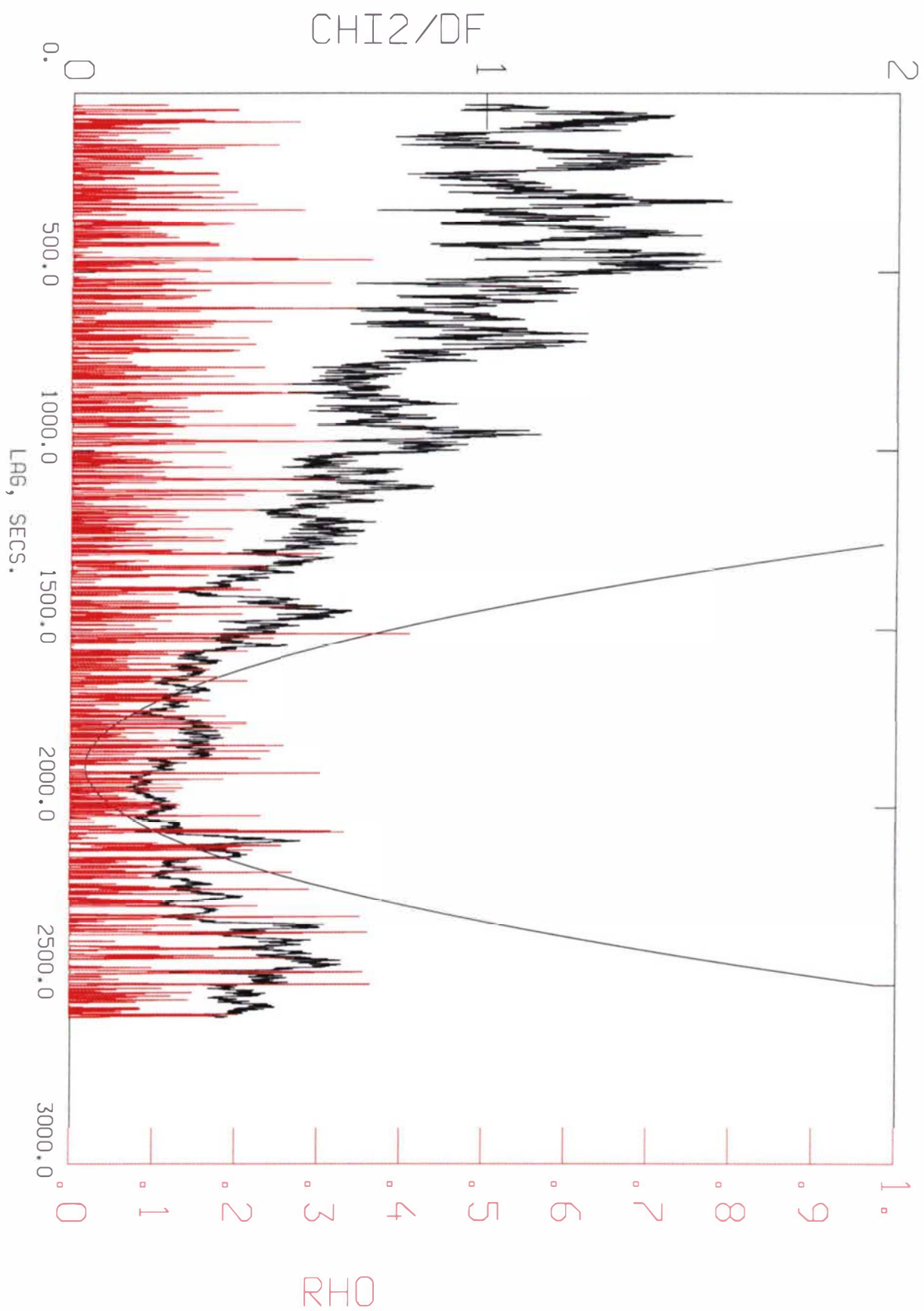
MS01

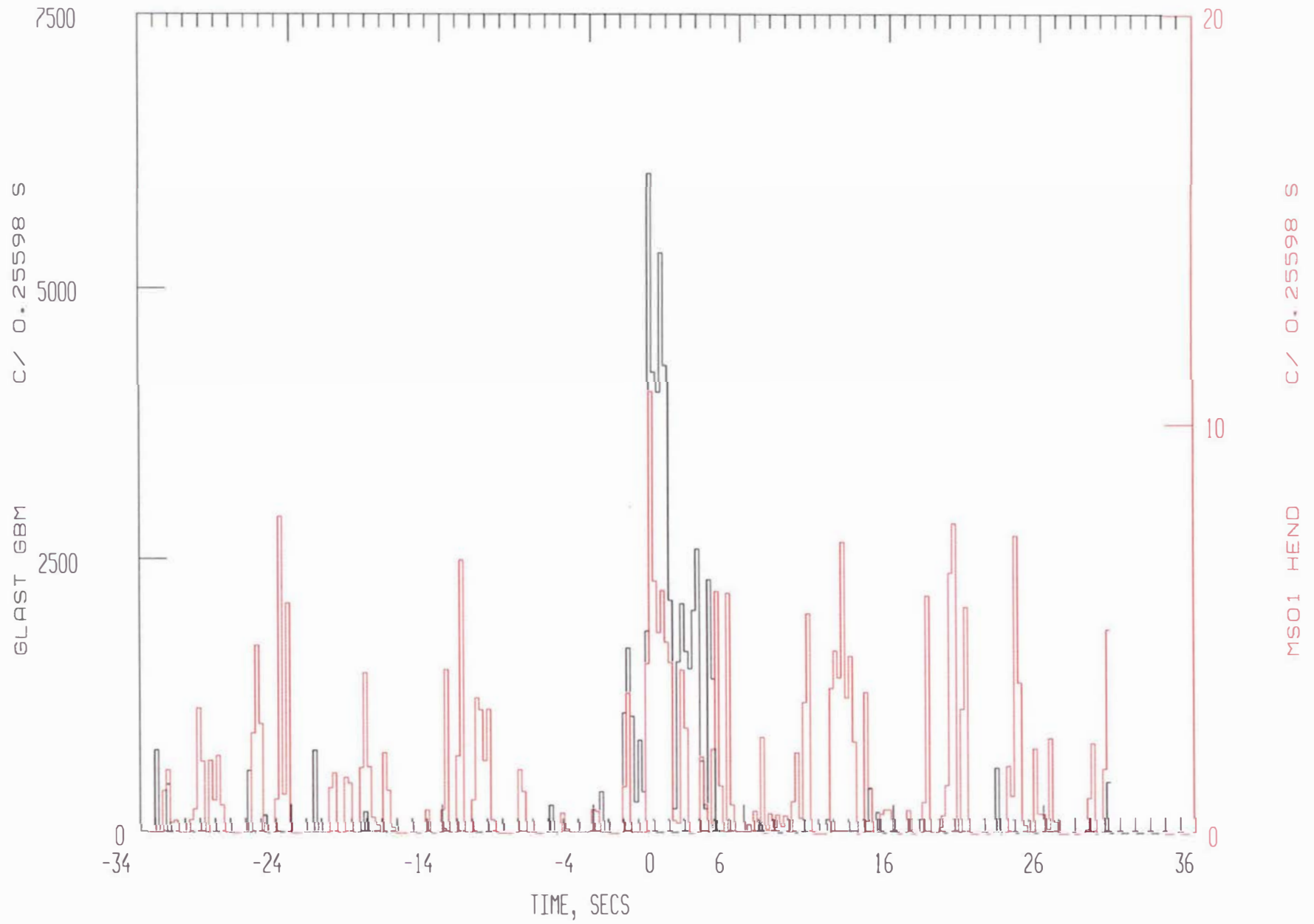
12/08/11

76337.066

50 - 3000 keV





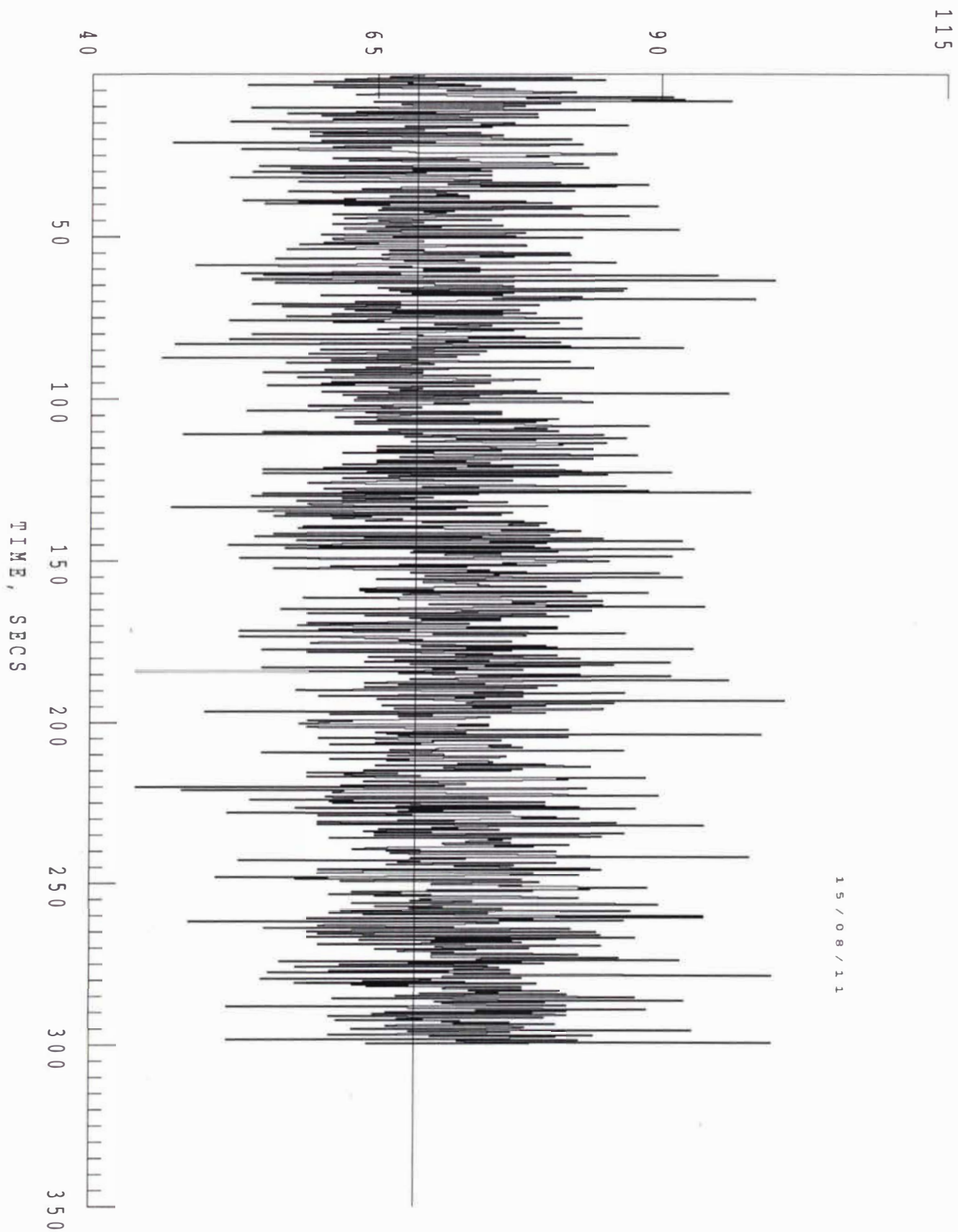


HESSI

12/08/11 77558.000 (GLAST_20110812_77708)

25- 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 110812_2135

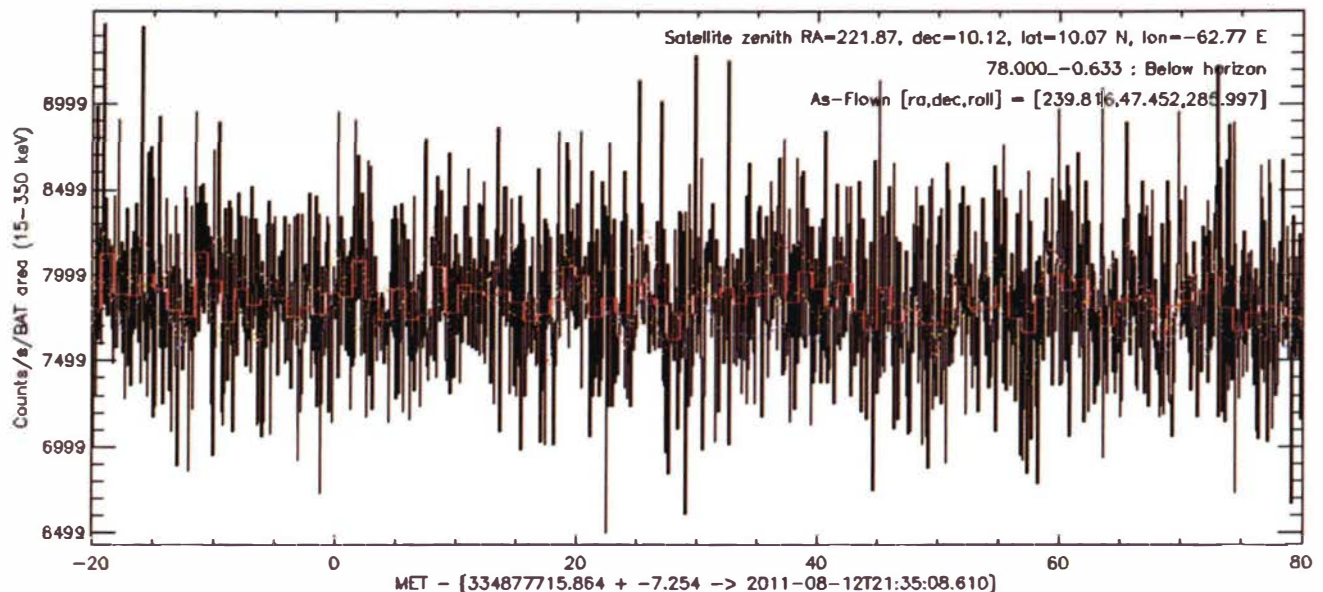
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 12 Aug 2011 21:31:52 -0600 (MDT)

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

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

/tmp/110812_2135.png



```
% /usr/local/bin/swinfo -o 334877715.864 -s 77.320_2.780
Time(MET + UTCF -> UT): 334877715.864 + -7.254 -> 2011-08-12T21:35:08.610
Swift Zenith(RA,dec): 221.87, 10.12
Swift Location(lon,lat,alt): -62.77 E, 10.07 N, 581 km
Obs Sequence Number: 00056761002
Obs Target Name: P177D - offset summer 2011
Obs Date and Times: 2011-08-12 21:25:54 - 21:51:50
Obs Pointing(ra,dec,roll): 239.816, 47.452, 286.00
77.320_2.780_imageloc (boresight_dist, angle): (127, -38)
77.320_2.780_exposure (cm^2 cos adjusted): 0
77.320_2.780_altitude: -29 (down)

% /usr/local/bin/swinfo -o 334877715.864 -s 78.000_-0.633
Time(MET + UTCF -> UT): 334877715.864 + -7.254 -> 2011-08-12T21:35:08.610
Swift Zenith(RA,dec): 221.87, 10.12
Swift Location(lon,lat,alt): -62.77 E, 10.07 N, 581 km
Obs Sequence Number: 00056761002
Obs Target Name: P177D - offset summer 2011
Obs Date and Times: 2011-08-12 21:25:54 - 21:51:50
Obs Pointing(ra,dec,roll): 239.816, 47.452, 286.00
78.000_-0.633_imageloc (boresight_dist, angle): (131, -40)
78.000_-0.633_exposure (cm^2 cos adjusted): 0
78.000_-0.633_altitude: -29 (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>

/tmp/110812_2135_bat64ms_ipn	Content-Type: application/octet-stream
------------------------------	--

Content-Encoding: base64

/tmp/110812_2135.png

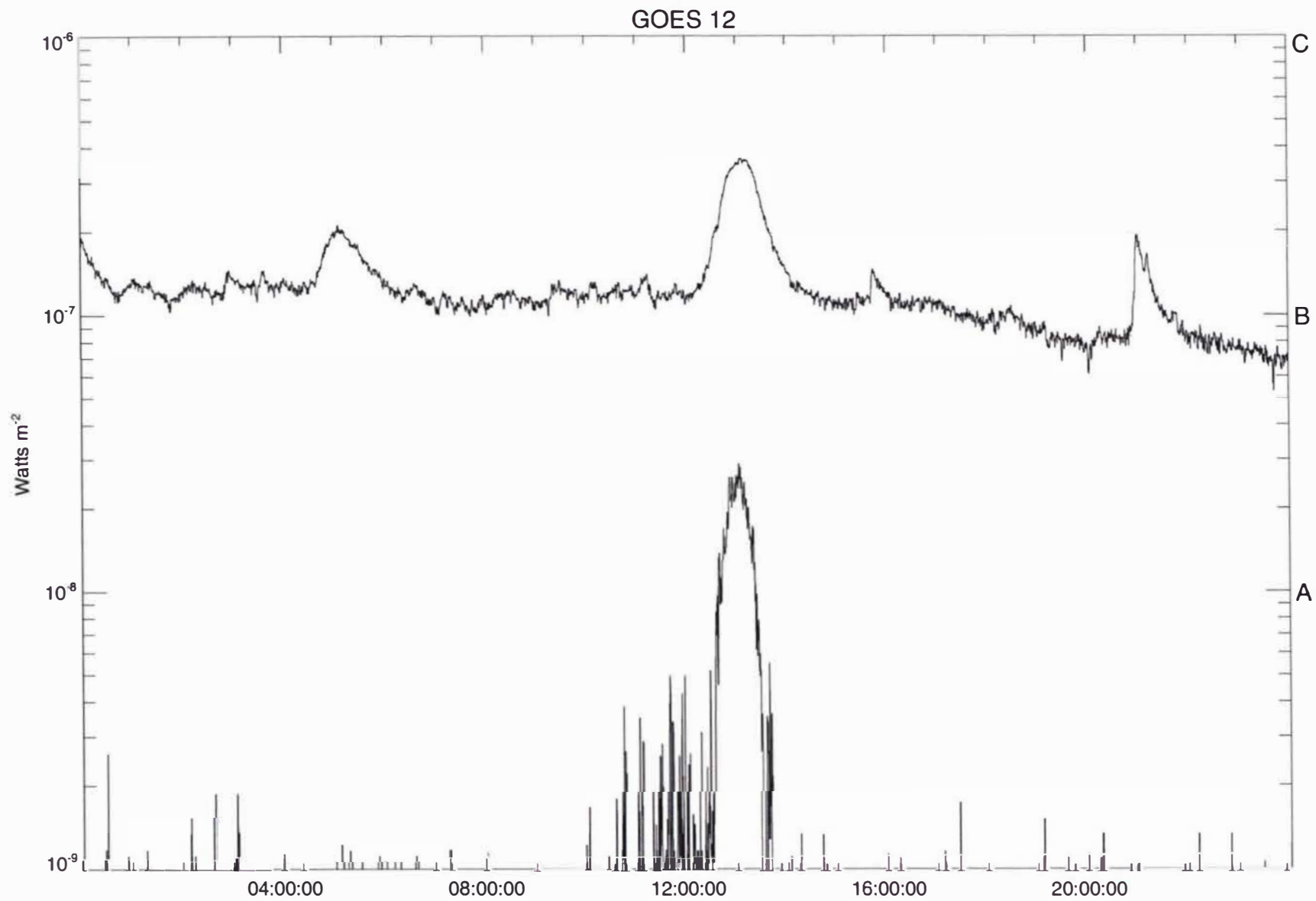
/tmp/110812_2135.png	Content-Type: image/png
	Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit



Data Start: 11/08/12, 0000:09

Plot created: 11/08/15, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

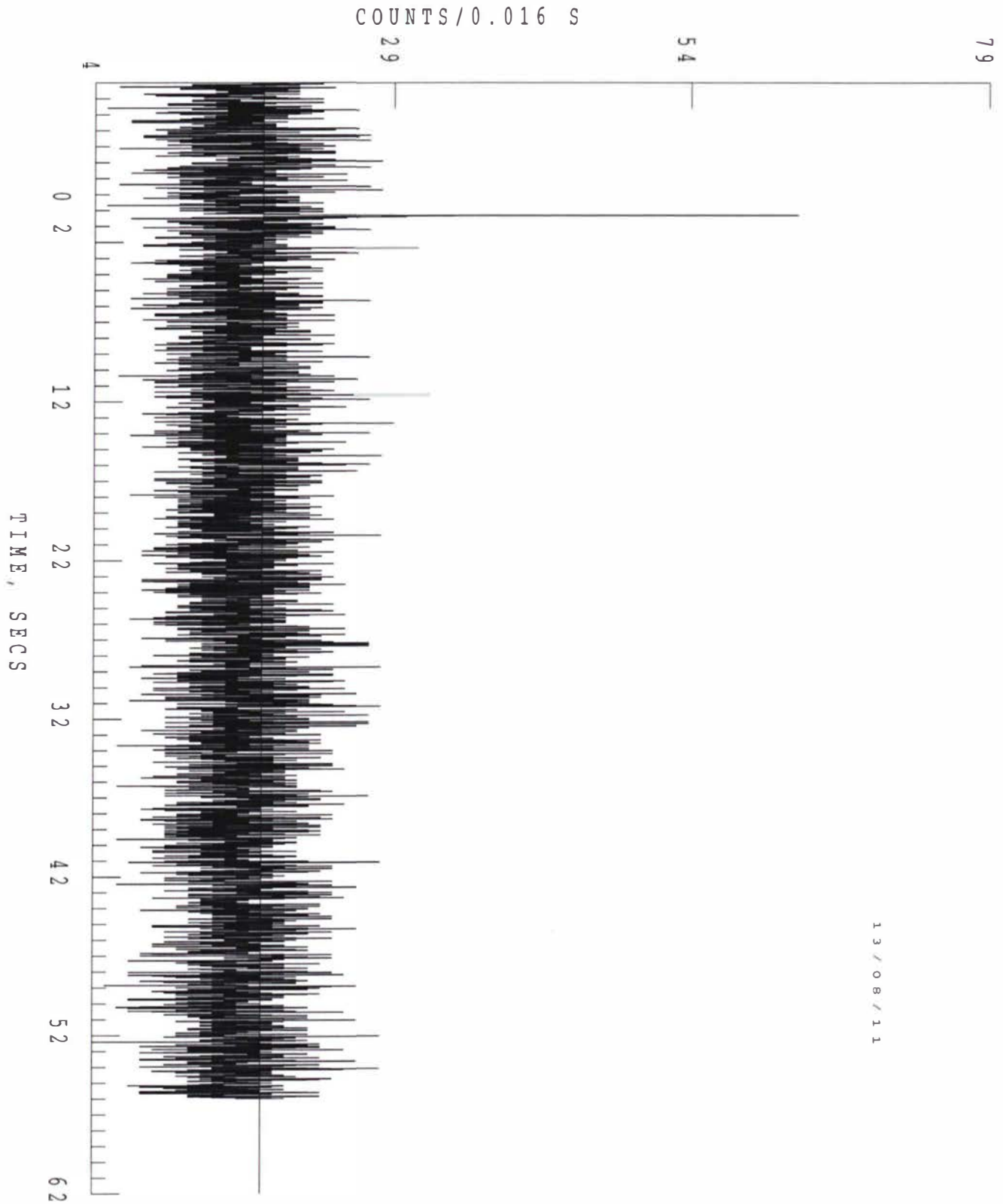
SUZAKU

13/08/11

16872.055

04:41:12

50 - 240 keV



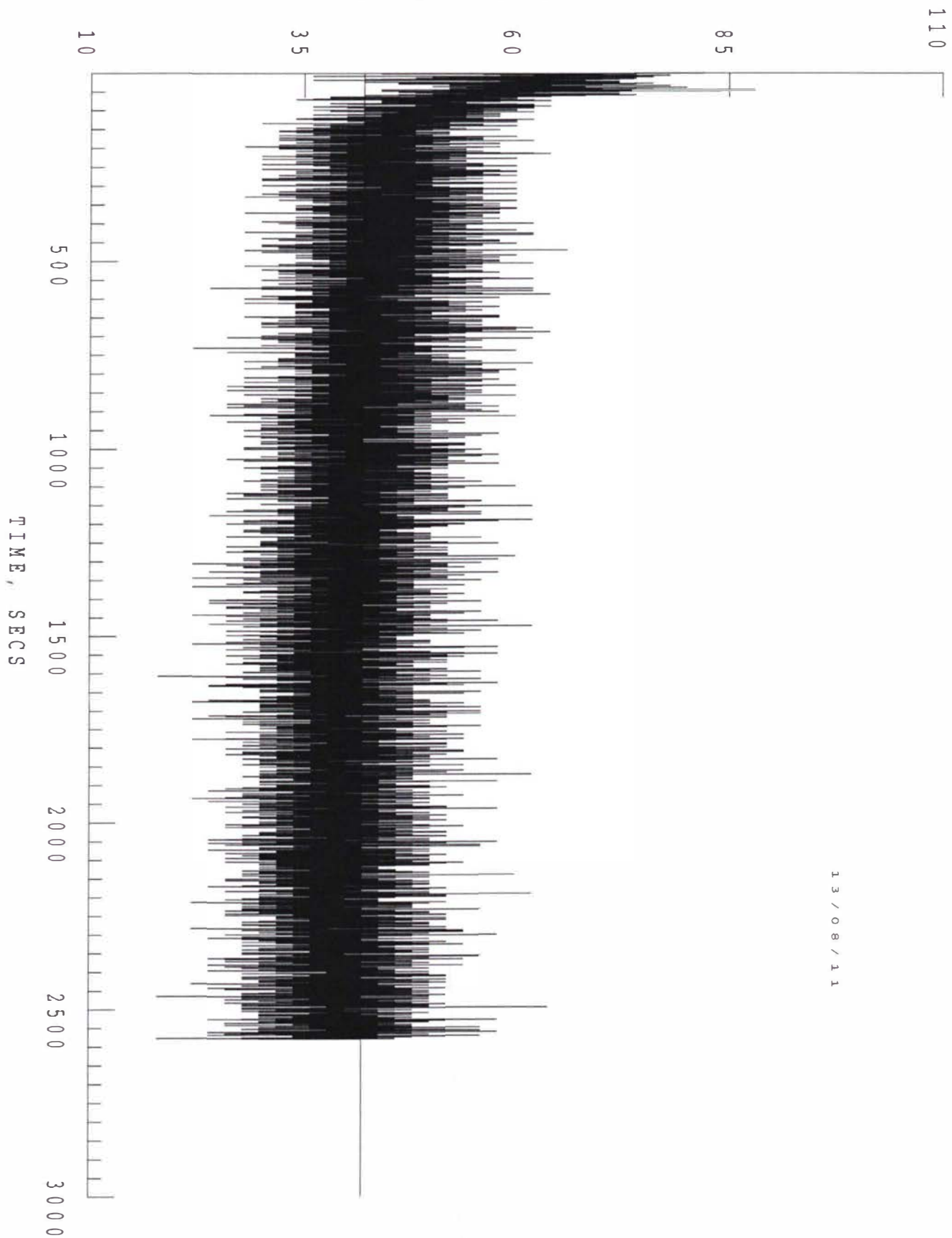
MS01

13/08/11

15556.637

50 - 3000 keV

COUNTS/0.250 S



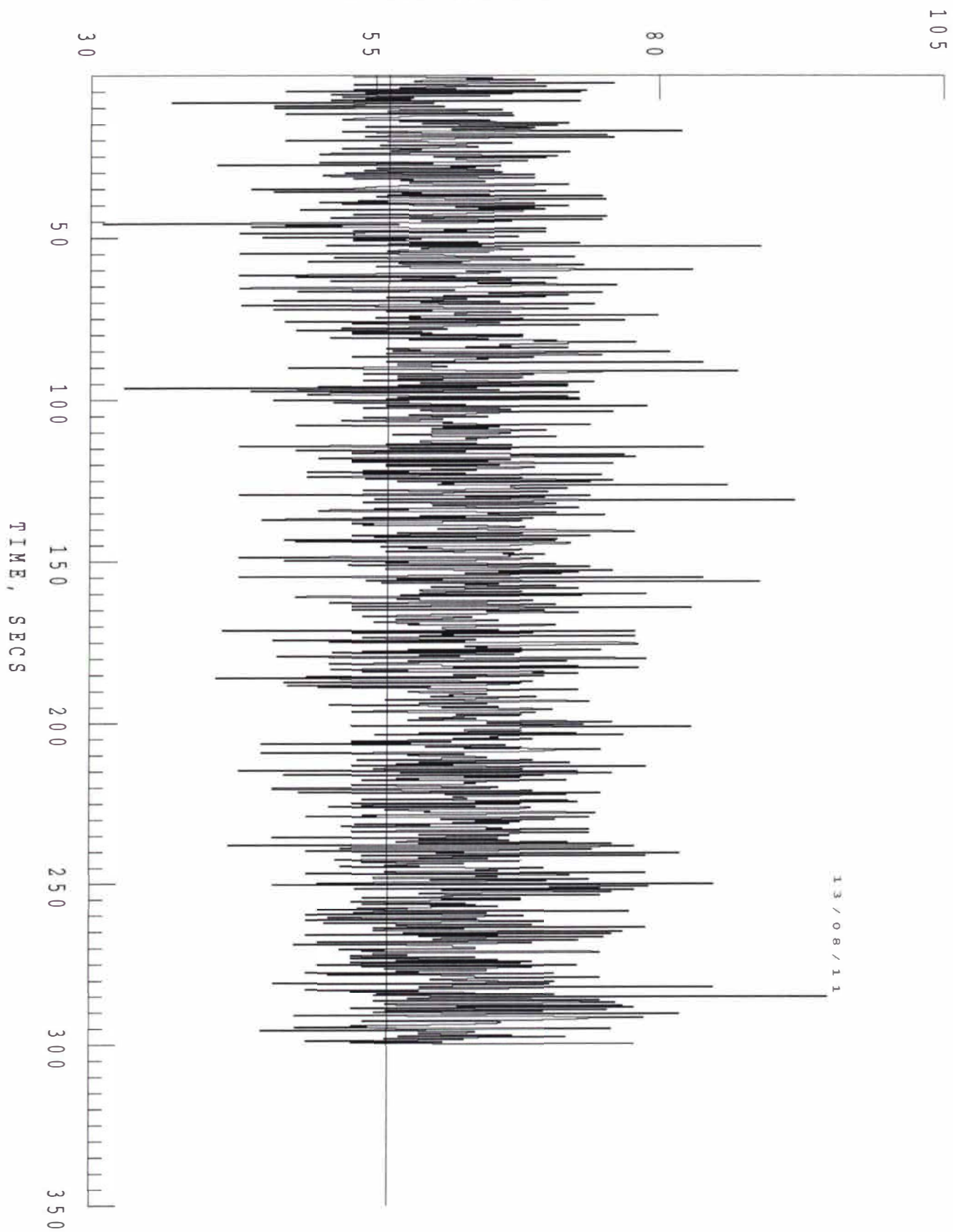
13/08/11

HESSI

13/08/11 16722.000 (SUZAKU_20110813_16872)

25- 150 keV

COUNTS/0.250 S



Date: Jul 19 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>)

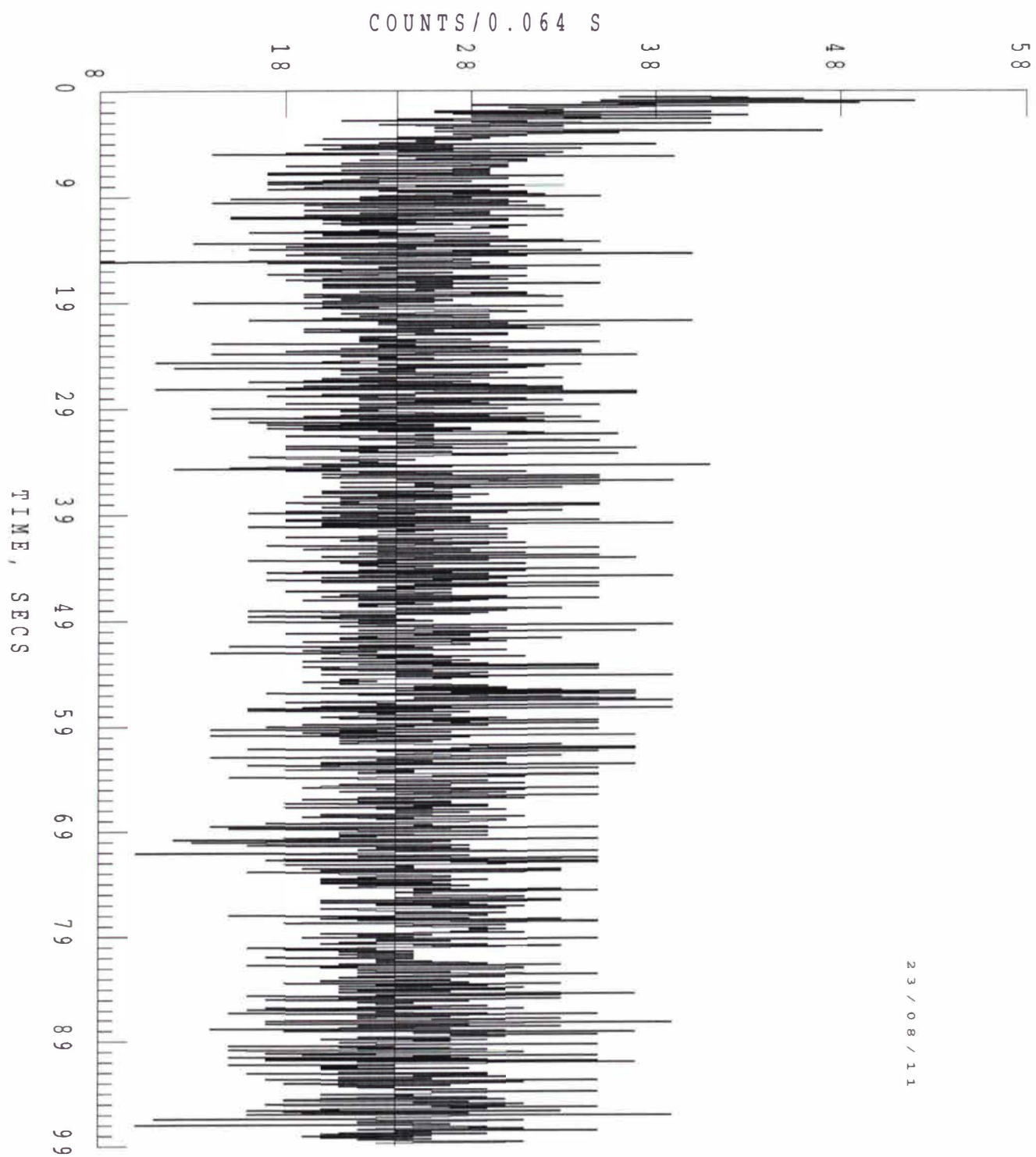
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

KONUS2

13/08/11

20453.267

50 - 200 keV



KONUS HRES 20110813 20453

TRIGGER TIME: 13/08/11 DOY 225 Julian 2455787.73672 UT = 05.681 05:40:53 (20453.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

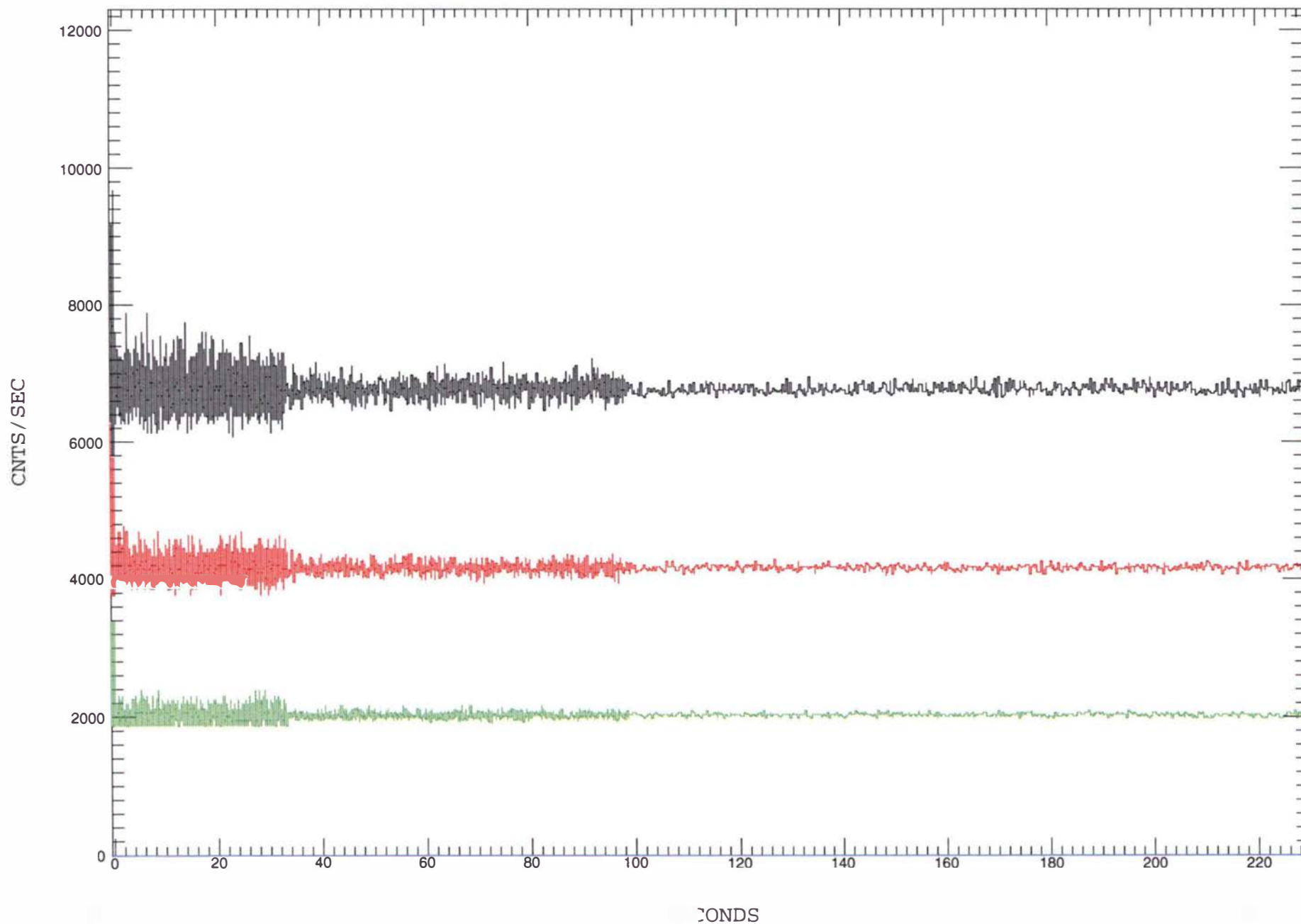
Chan 4 : [> 10 MeV]

Channel 1 + 5700

Channel 2 + 3800

Channel 3 + 1900

Channel 4 + 0

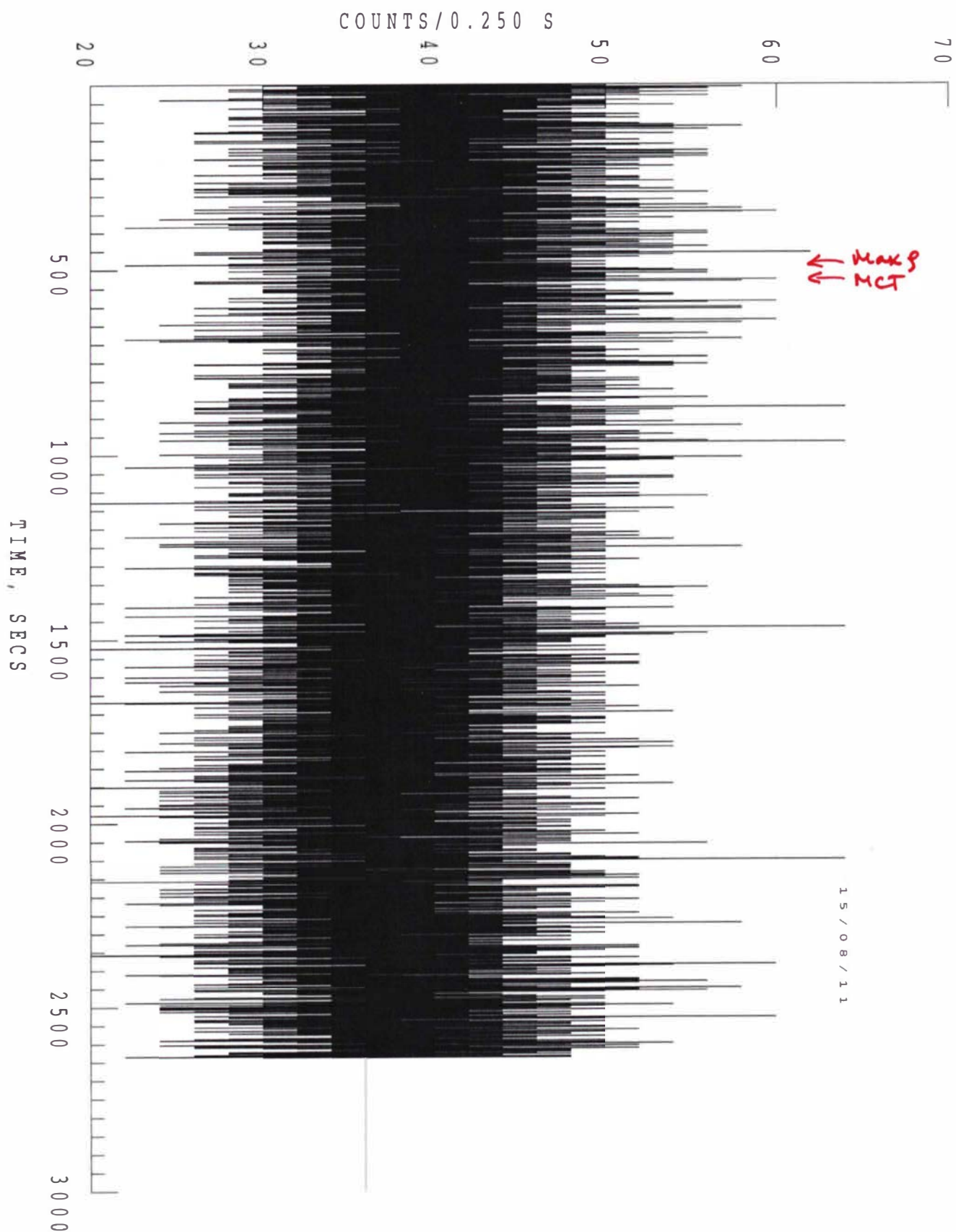


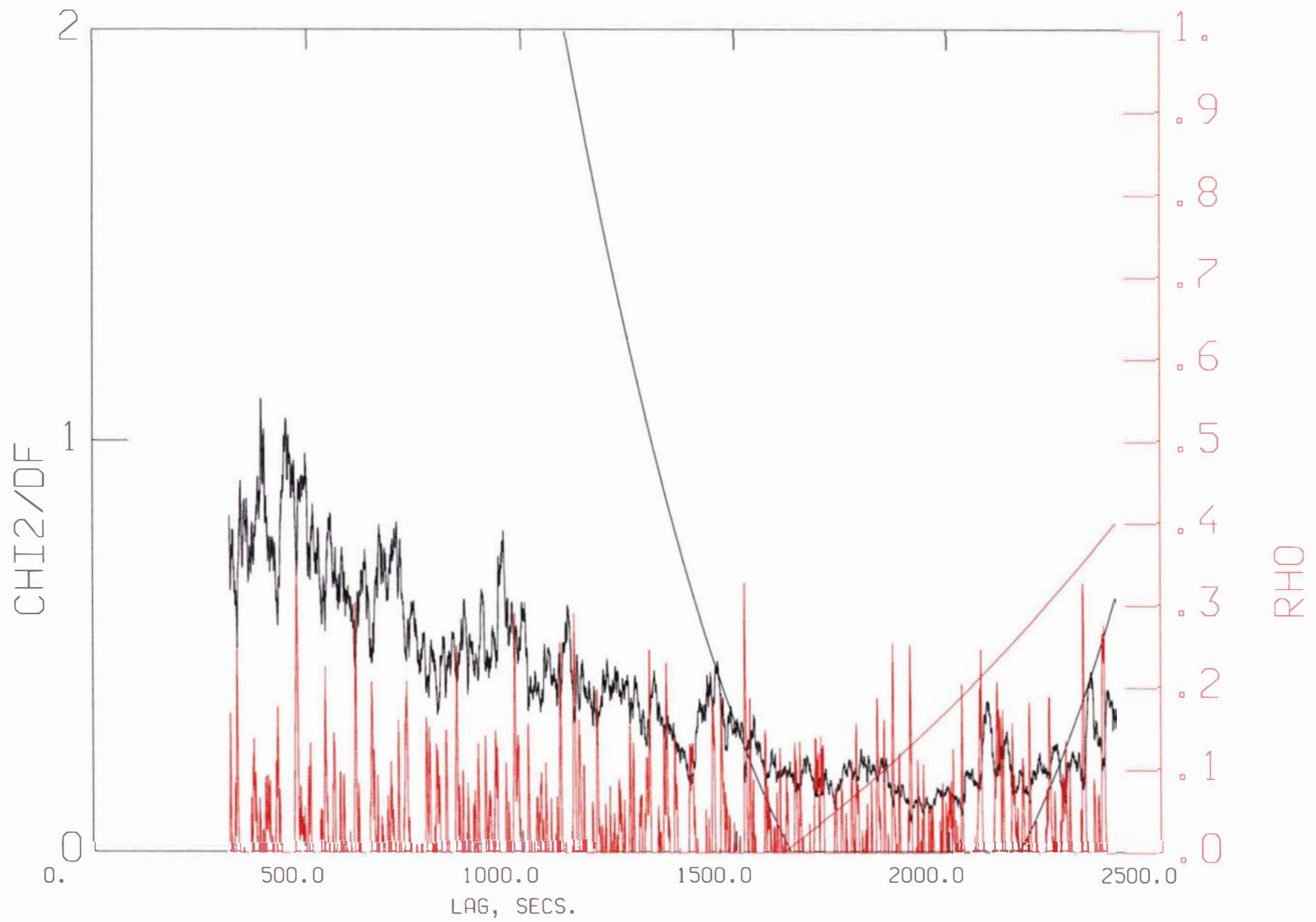
MS01

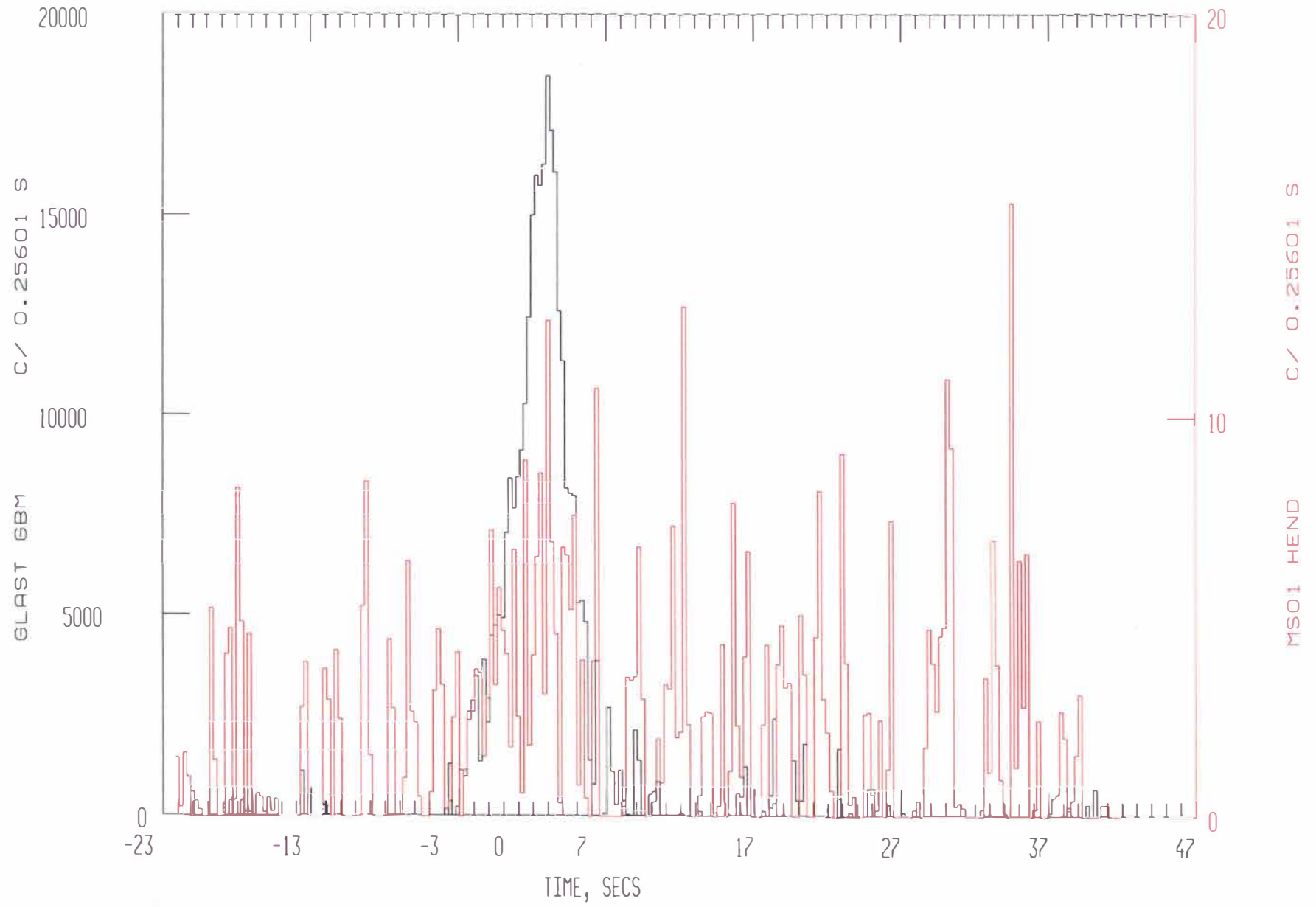
13/08/11

19096.580

50 - 3000 keV







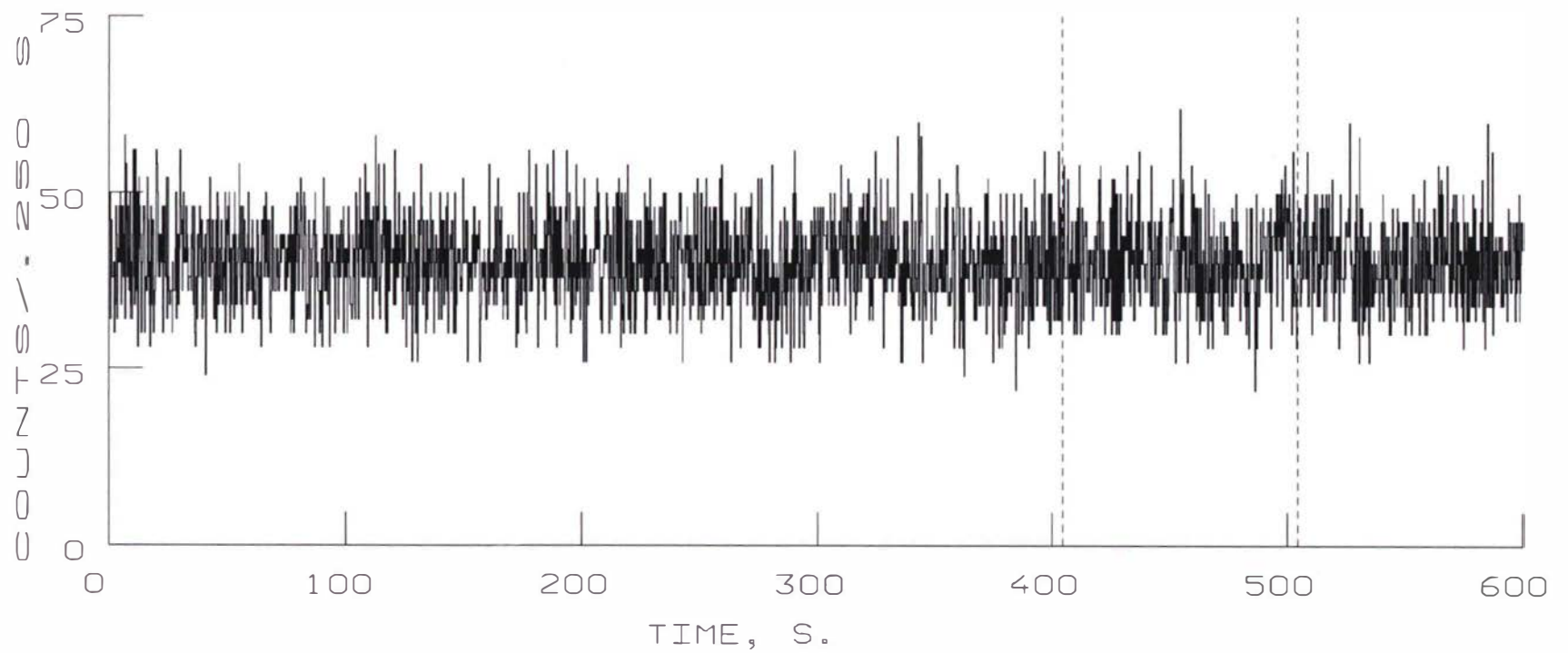
MS01 HEND

19/07/2016

13/08/2011 19096.580 s

50-3000 keV

MAXIMUM

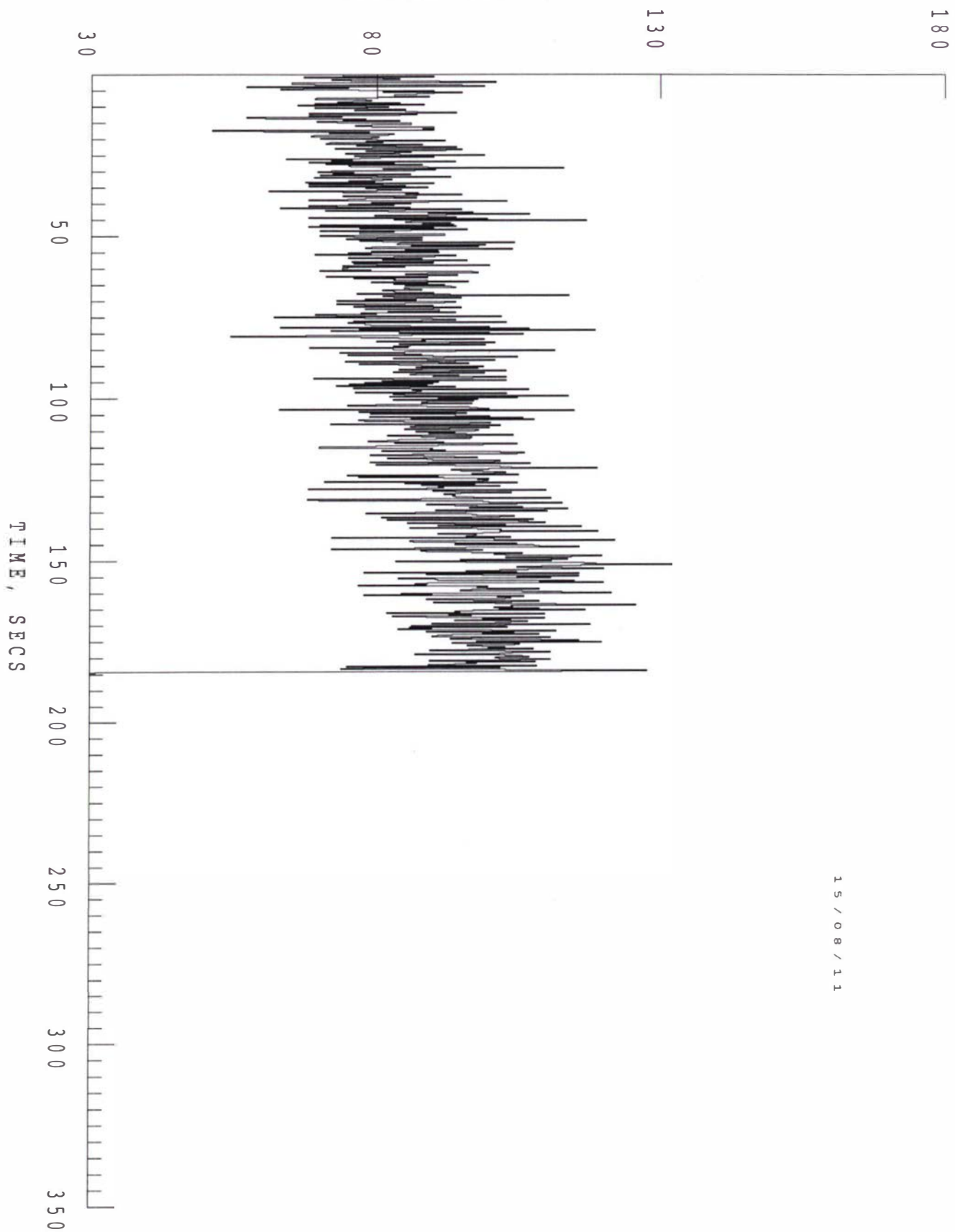


HESSI

13/08/11 20303.000 (KONUS2_20110813_20453)

25- 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 110813_0540

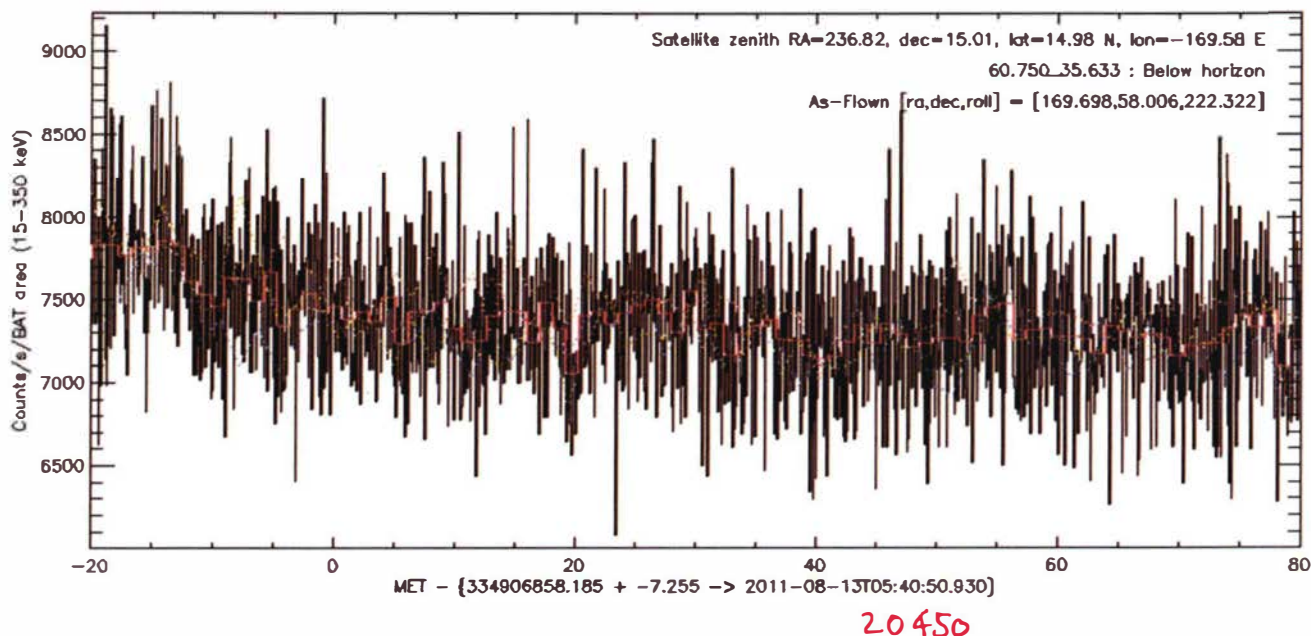
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 13 Aug 2011 08:09:04 -0600 (MDT)

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

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

/tmp/110813_0540.png



```
% /usr/local/bin/swinfo -o 334906858.185 -s 59.900 45.967
Time(MET + UTCF -> UT): 334906858.185 + -7.255 -> 2011-08-13T05:40:50.930
Swift Zenith(RA,dec): 236.82, 15.01
Swift Location(lon,lat,alt): -169.58 E, 14.98 N, 578 km
Obs Sequence Number: 00032040011
Obs Target Name: PSN in NGC3613
Obs Date and Times: 2011-08-13 05:39:05 - 05:50:52
Obs Pointing(ra,dec,roll): 169.698, 58.006, 222.32
59.900_45.967_imageloc (boresight_dist, angle): (61, -1)
59.900_45.967_exposure (cm^2 cos adjusted): 16
59.900_45.967_altitude: -5 (down)
```

```
% /usr/local/bin/swinfo -o 334906858.185 -s 60.000 36.730
Time(MET + UTCF -> UT): 334906858.185 + -7.255 -> 2011-08-13T05:40:50.930
Swift Zenith(RA,dec): 236.82, 15.01
Swift Location(lon,lat,alt): -169.58 E, 14.98 N, 578 km
Obs Sequence Number: 00032040011
Obs Target Name: PSN in NGC3613
Obs Date and Times: 2011-08-13 05:39:05 - 05:50:52
Obs Pointing(ra,dec,roll): 169.698, 58.006, 222.32
60.000_36.730_imageloc (boresight_dist, angle): (69, -6)
60.000_36.730_exposure (cm^2 cos adjusted): 0
60.000_36.730_altitude: -15 (down)
```

```
% /usr/local/bin/swinfo -o 334906858.185 -s 60.750 35.633
Time(MET + UTCF -> UT): 334906858.185 + -7.255 -> 2011-08-13T05:40:50.930
Swift Zenith(RA,dec): 236.82, 15.01
Swift Location(lon,lat,alt): -169.58 E, 14.98 N, 578 km
Obs Sequence Number: 00032040011
Obs Target Name: PSN in NGC3613
Obs Date and Times: 2011-08-13 05:39:05 - 05:50:52
Obs Pointing(ra,dec,roll): 169.698, 58.006, 222.32
60.750_35.633_imageloc (boresight_dist, angle): (69, -8)
60.750_35.633_exposure (cm^2 cos adjusted): 0
60.750_35.633_altitude: -16 (down)
```

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

TSPA -- Automatically generated plot of publicly-available scientific data

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

/tmp/110813_0540.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110813_0540_bat64ms_ipn

/tmp/110813_0540_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

29/09/11

MESSENGER

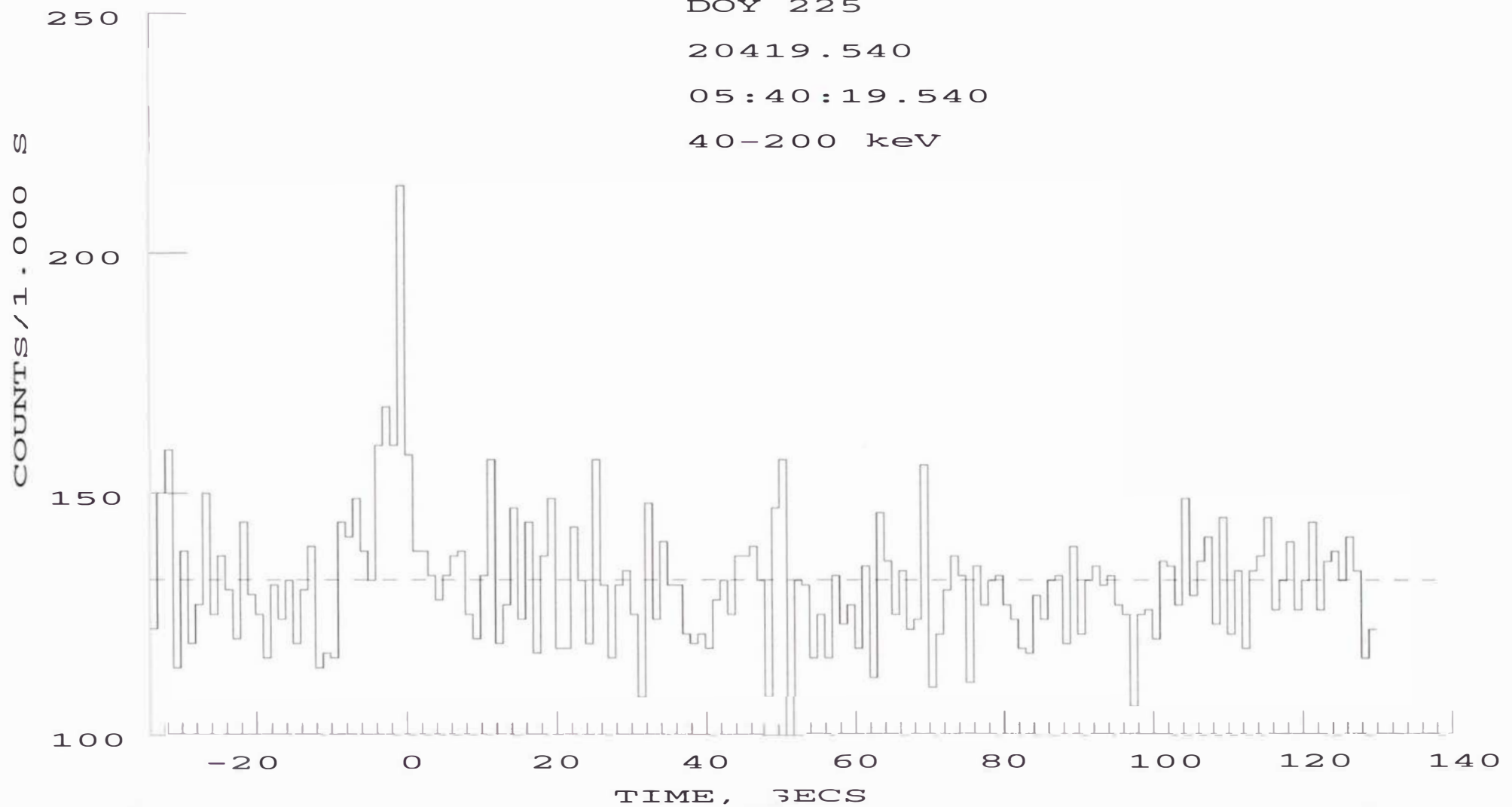
13/08/11

DOY 225

20419.540

05:40:19.540

40-200 keV



GLAST

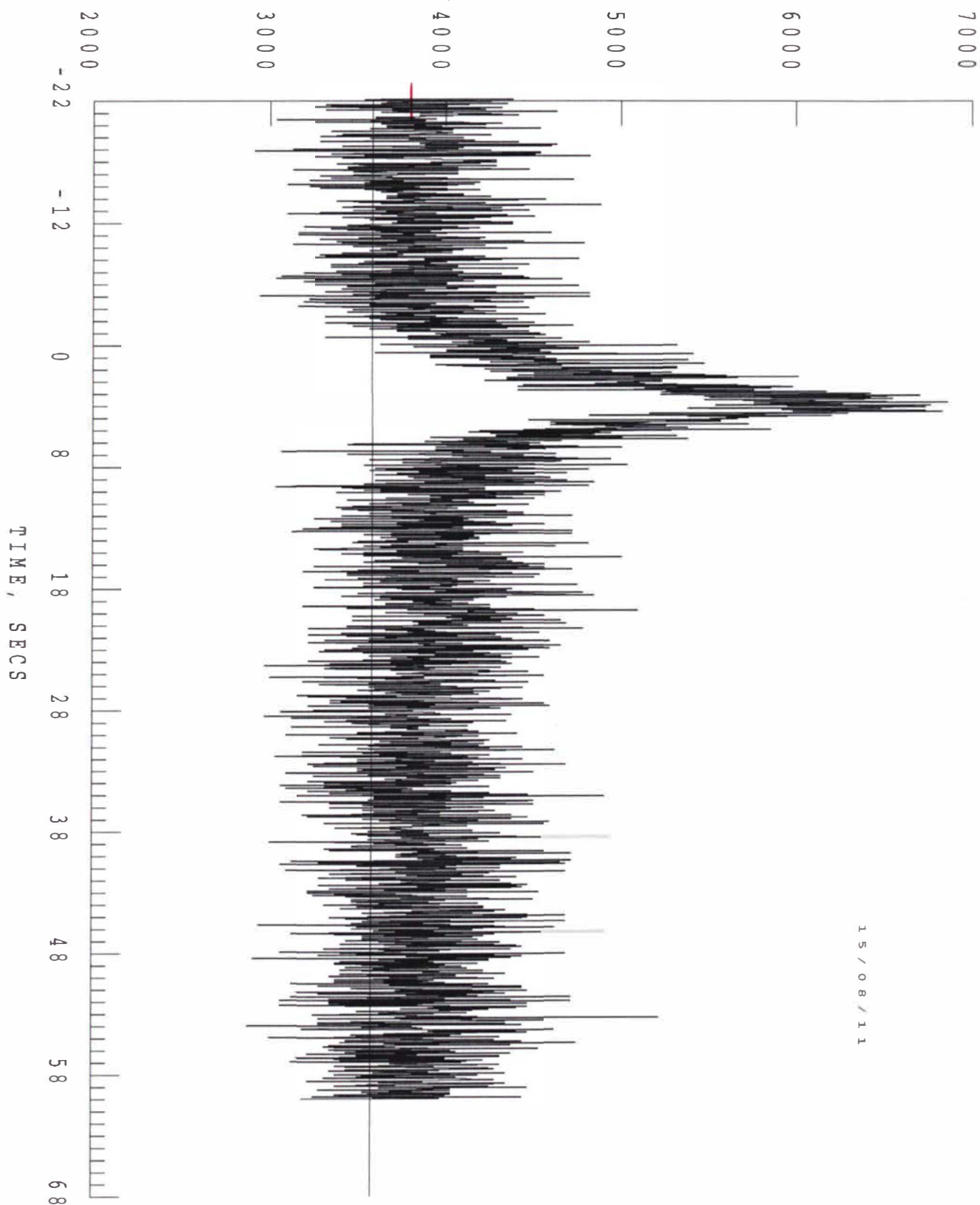
13/08/11

20450.931 05:40

26 - 293 keV

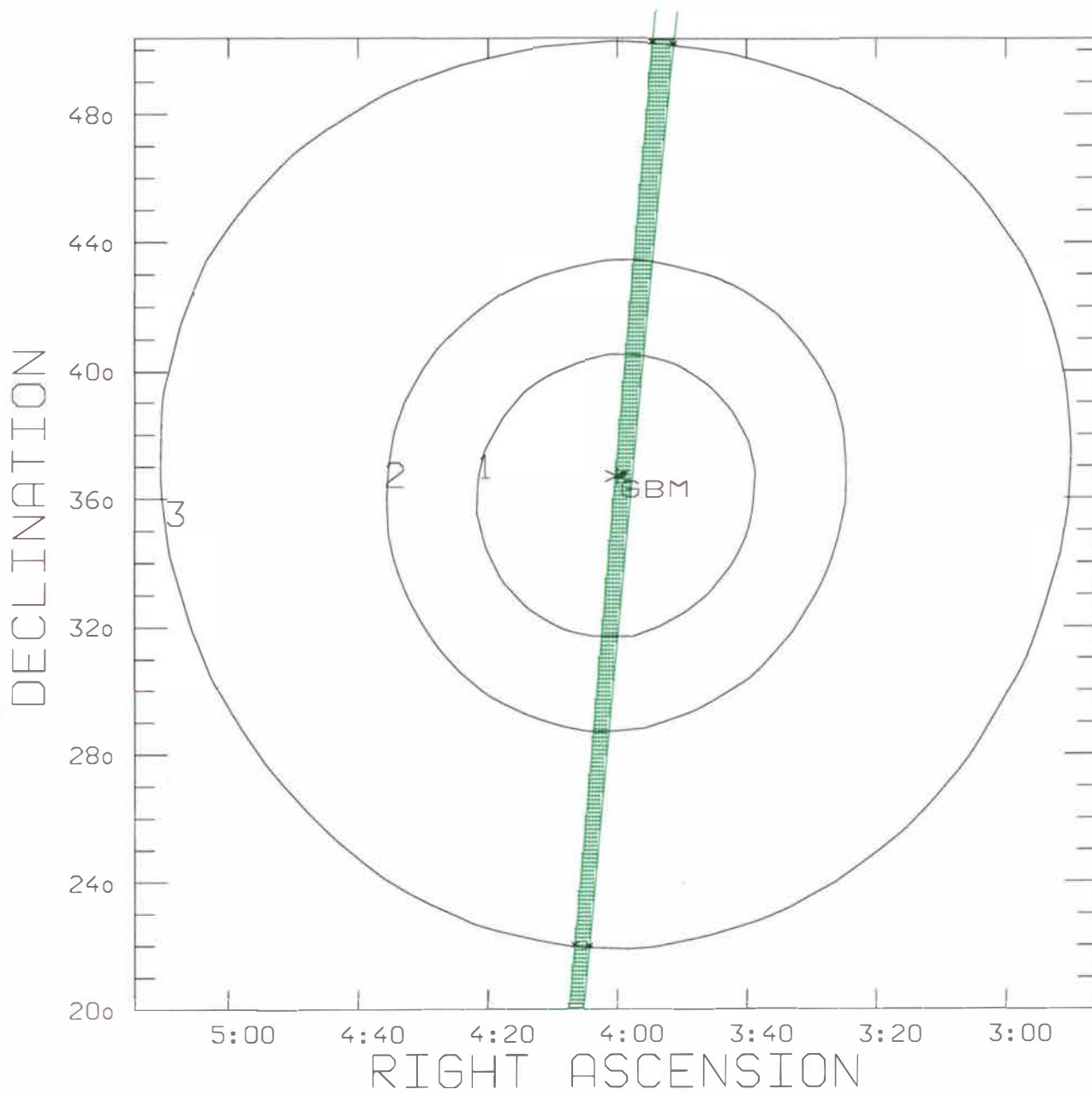
61.24 34.56 1.0

COUNTS/0.032 S



GRB110813 ~20450 S

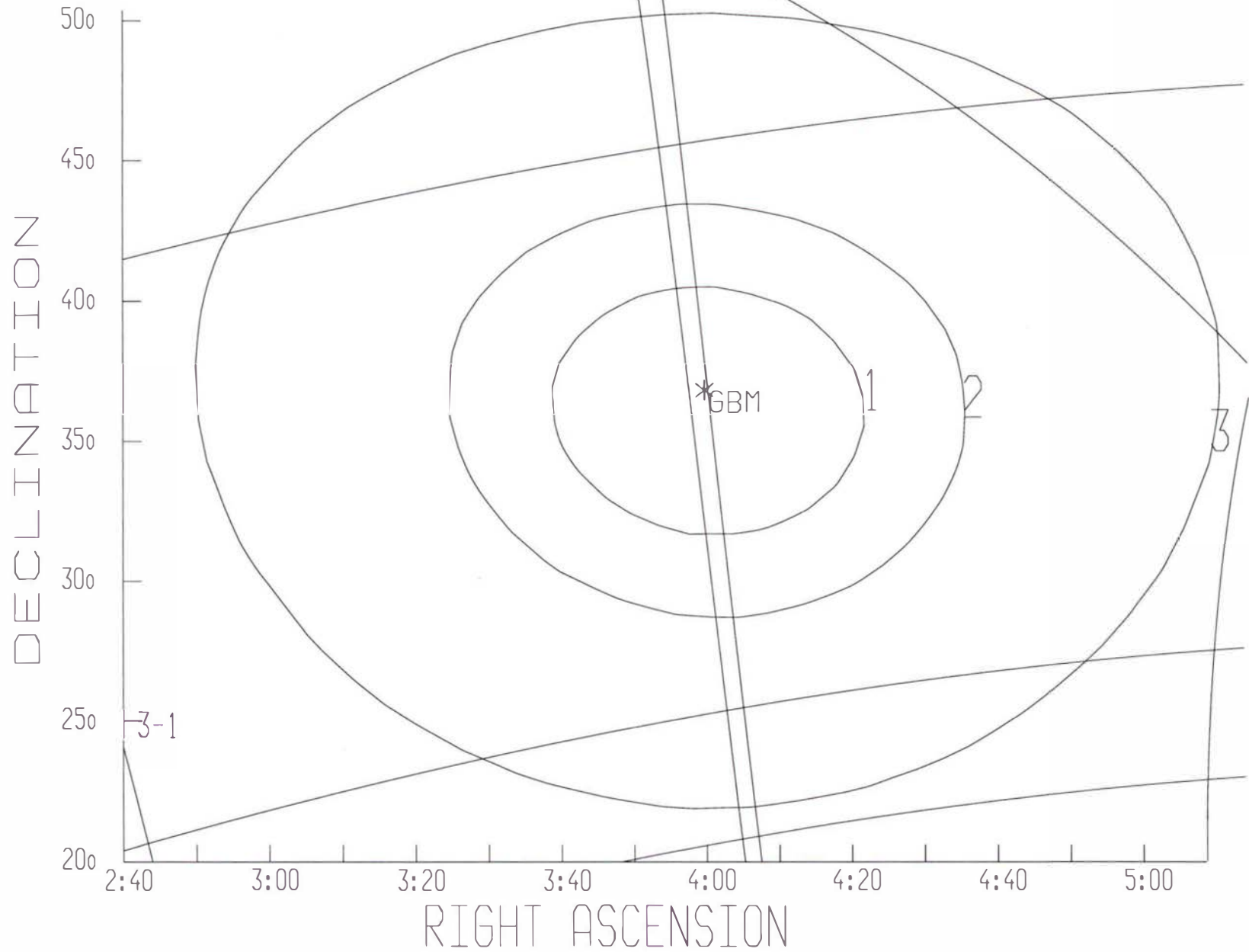
19/07/2016

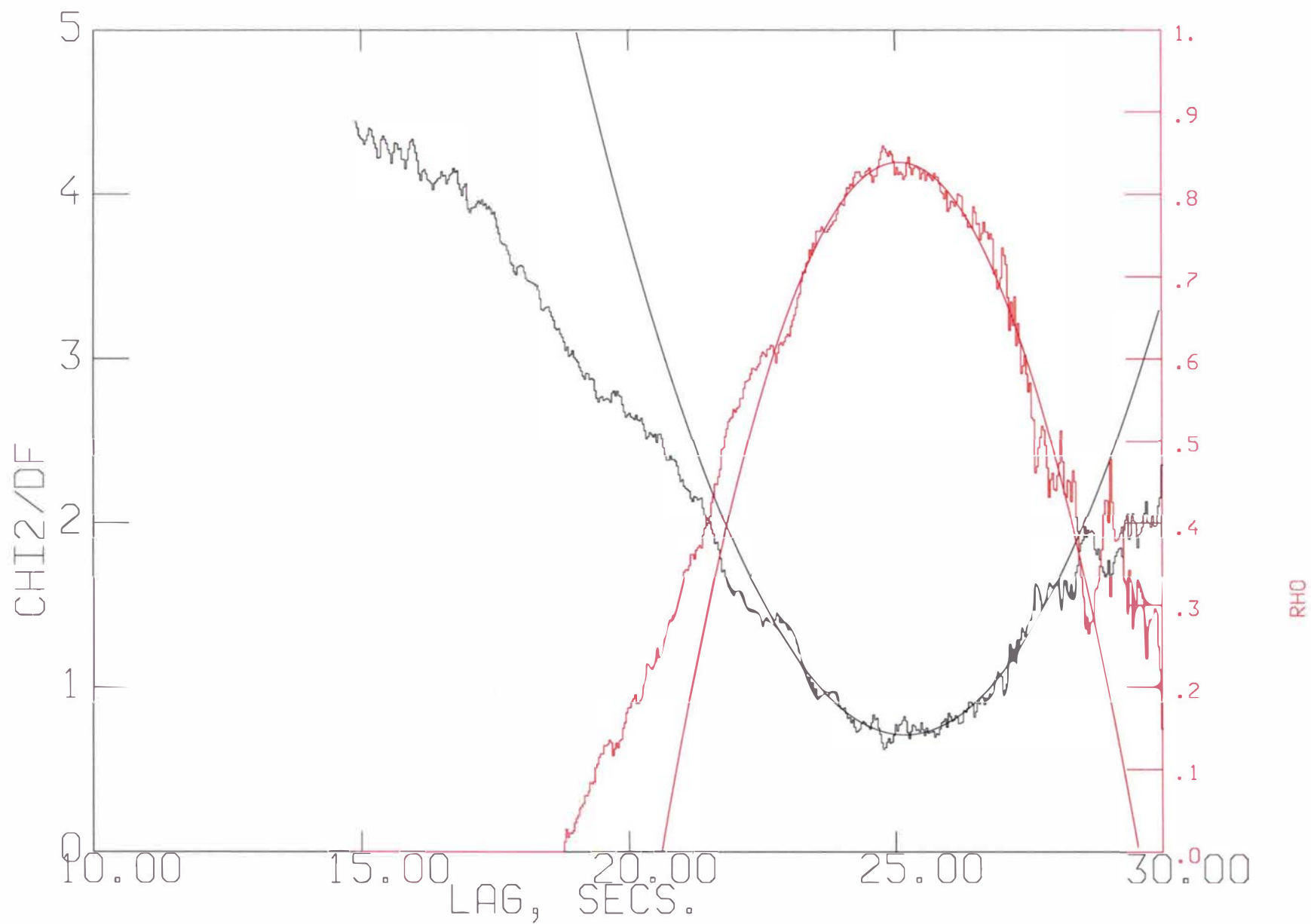


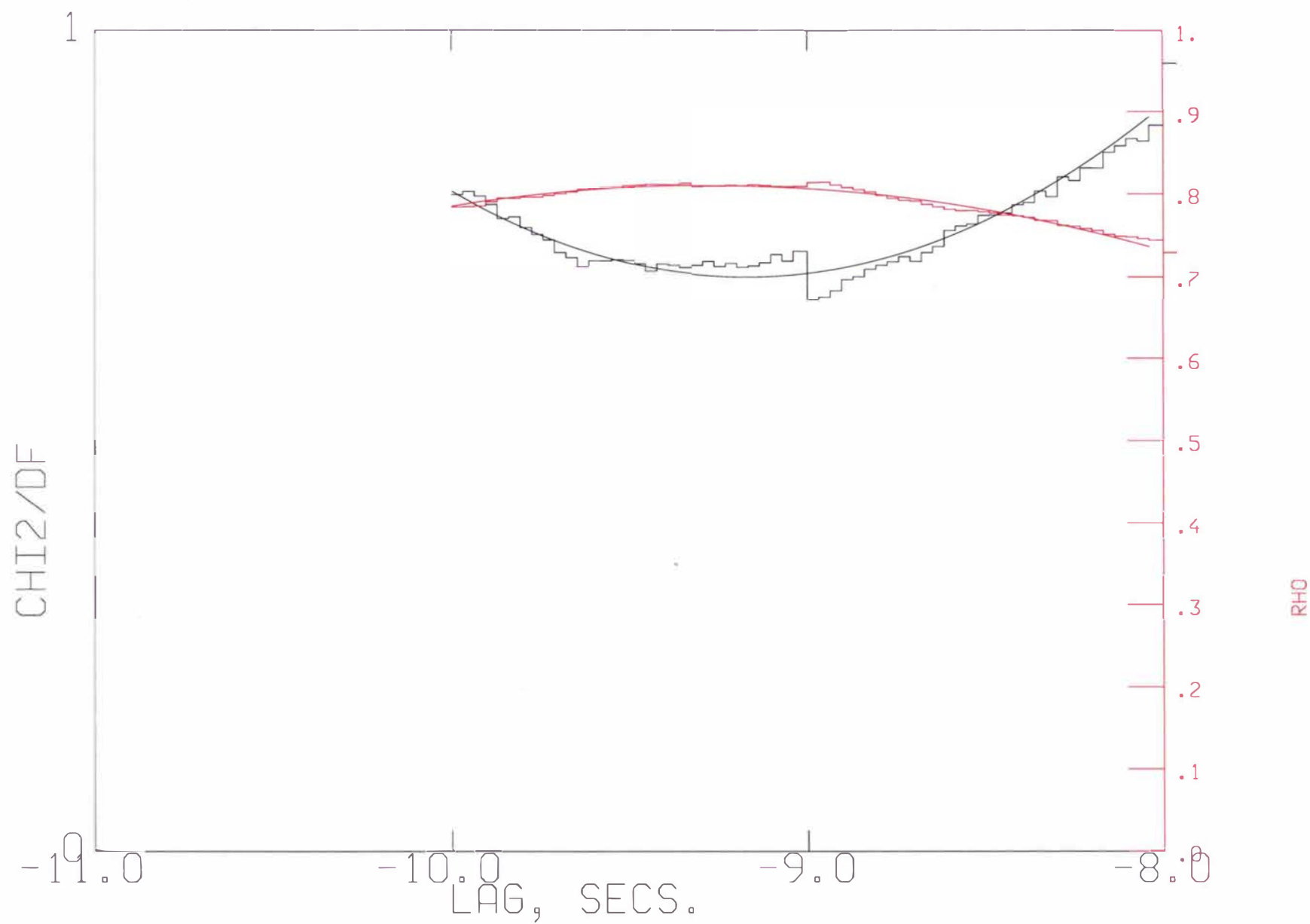
EVENT OF AUG 13, 2011 5:40

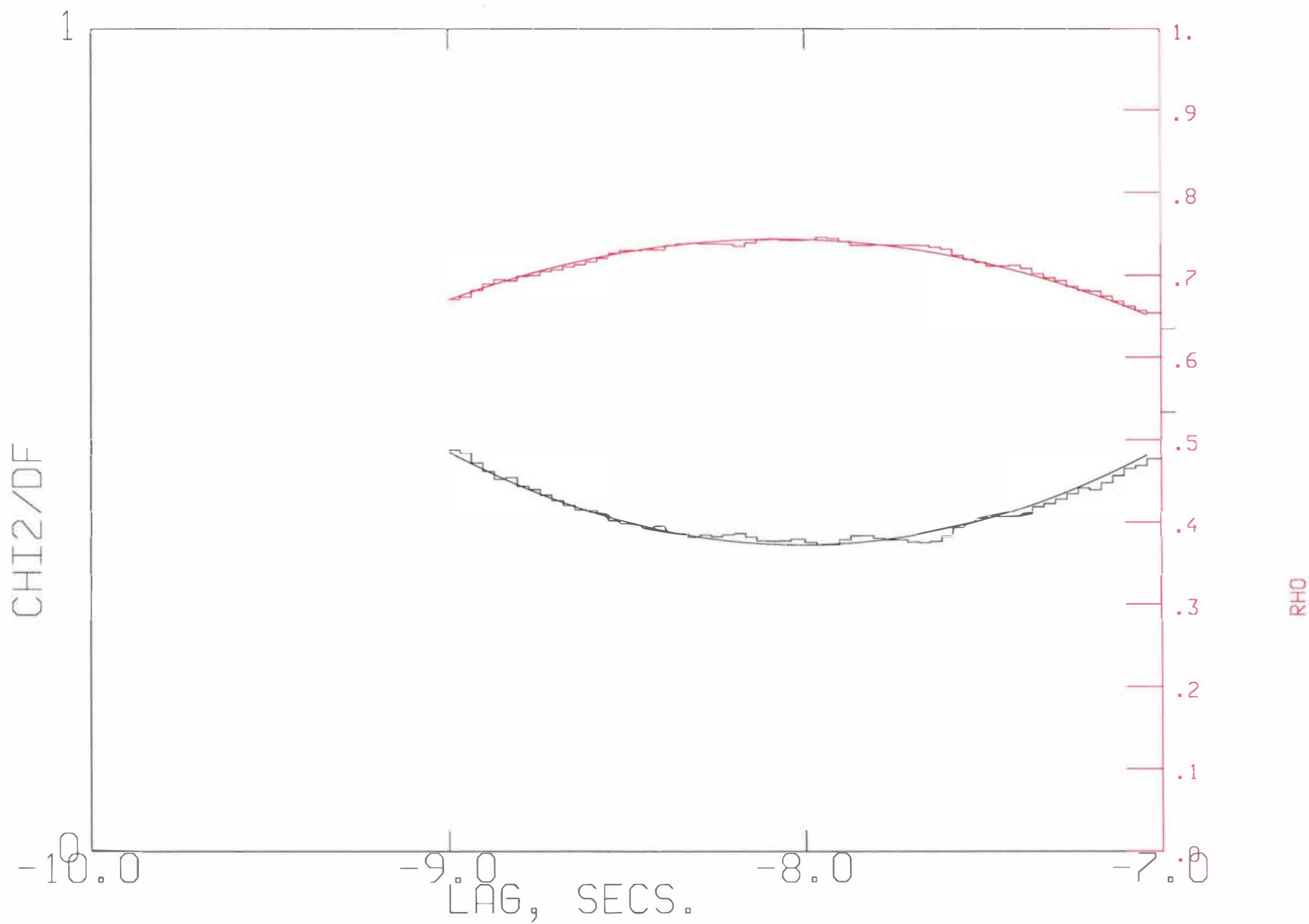
19/07/2016

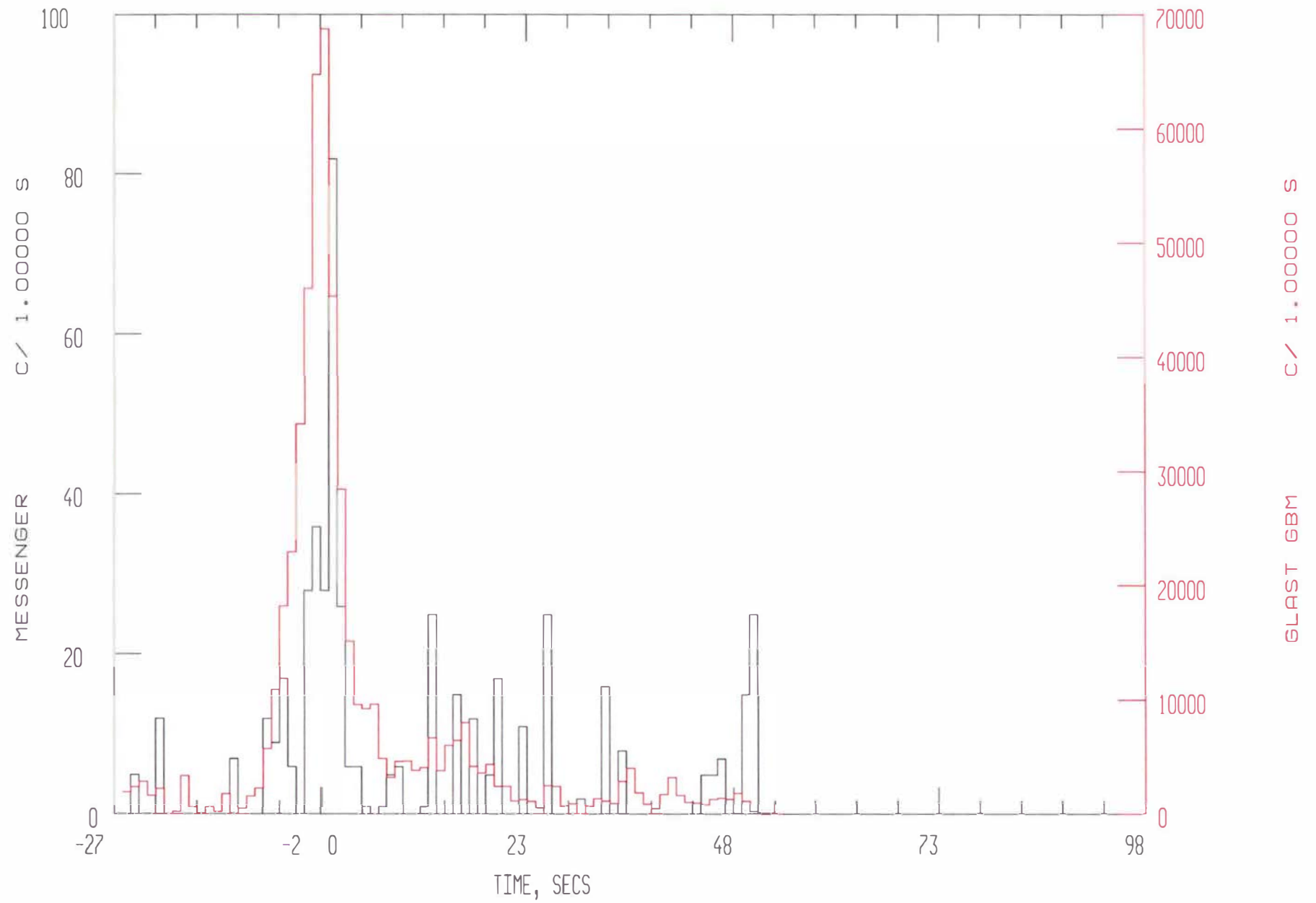
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 FERMI 2 MESSENGER 3 KONUS2











19/07/16

MESSENGER

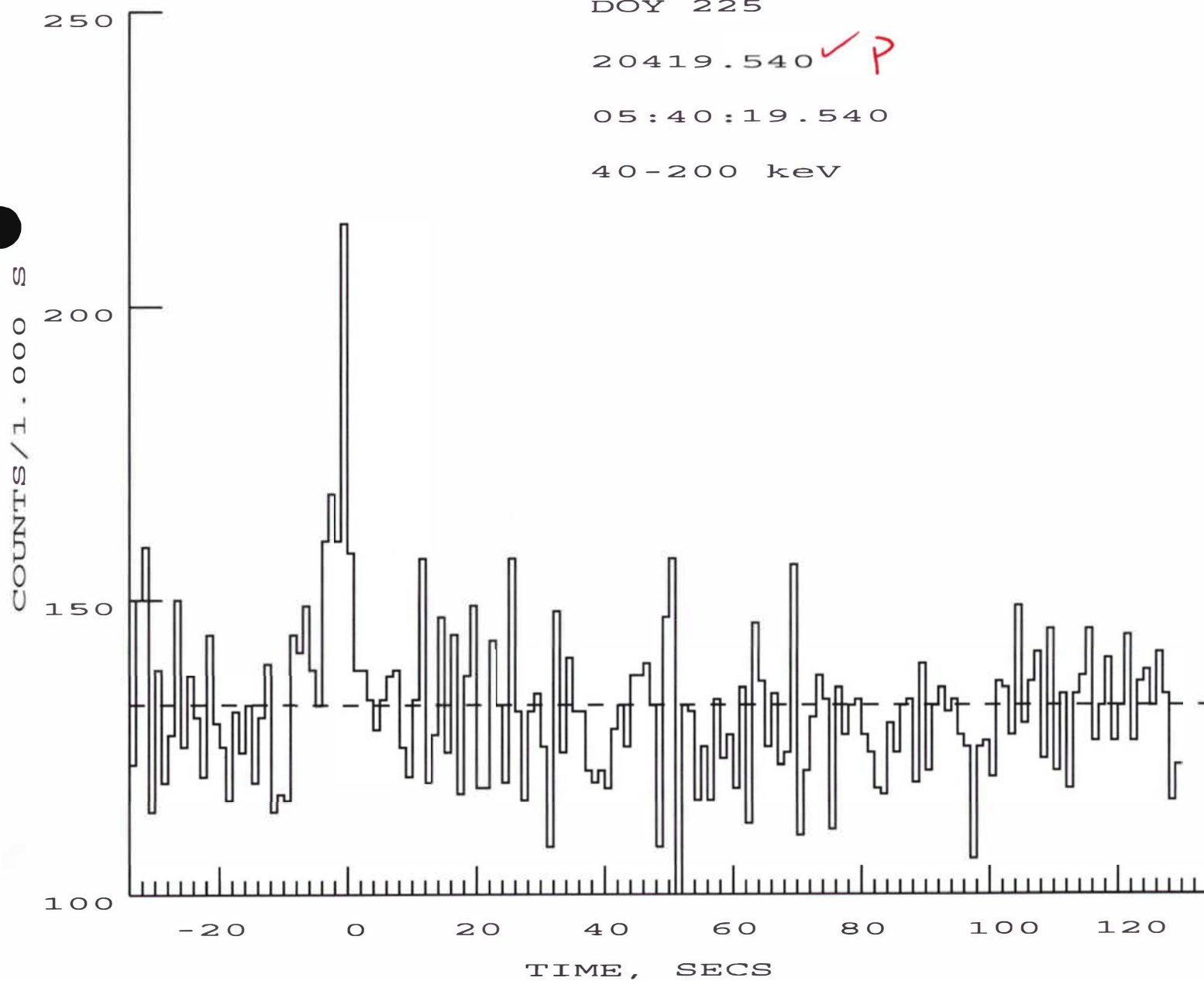
13/08/11

DOY 225

20419.540 ✓ P

05:40:19.540

40-200 keV



Date: Mar 25 2013

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)? *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?

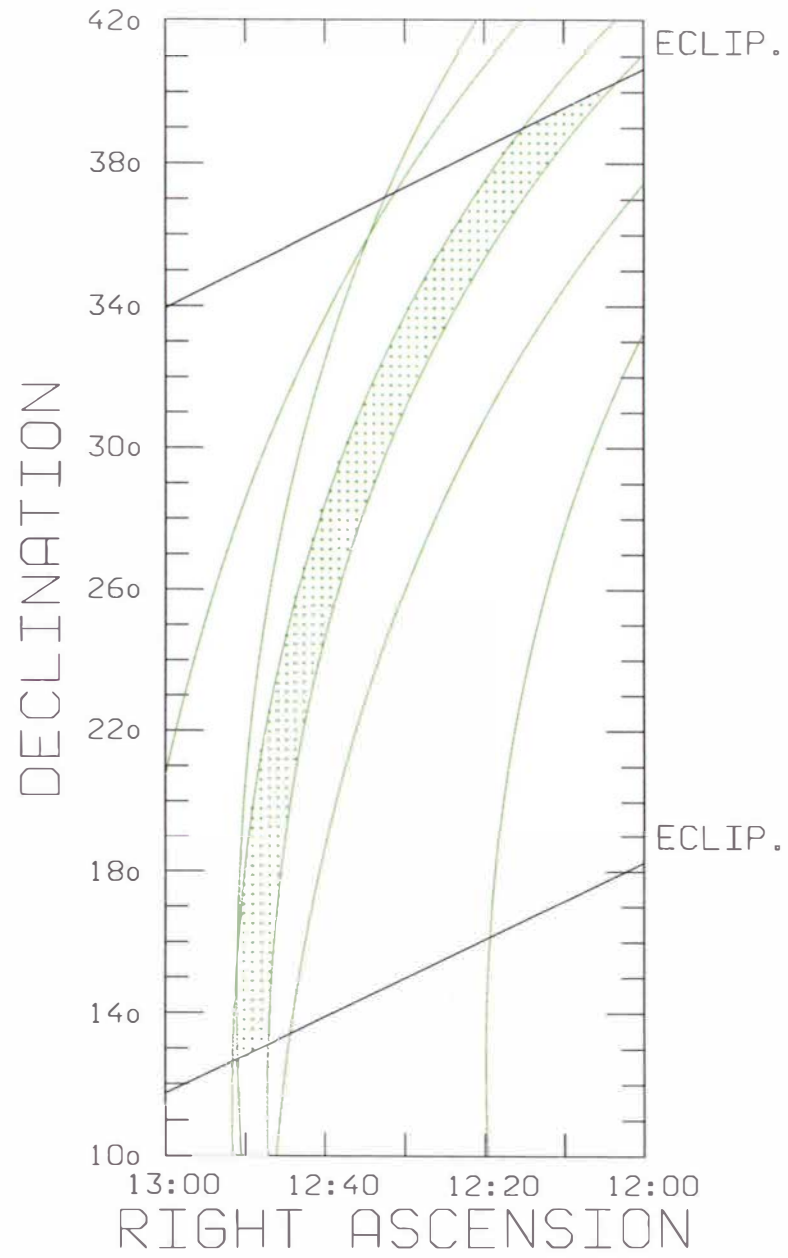
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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-ipnle.pl>)

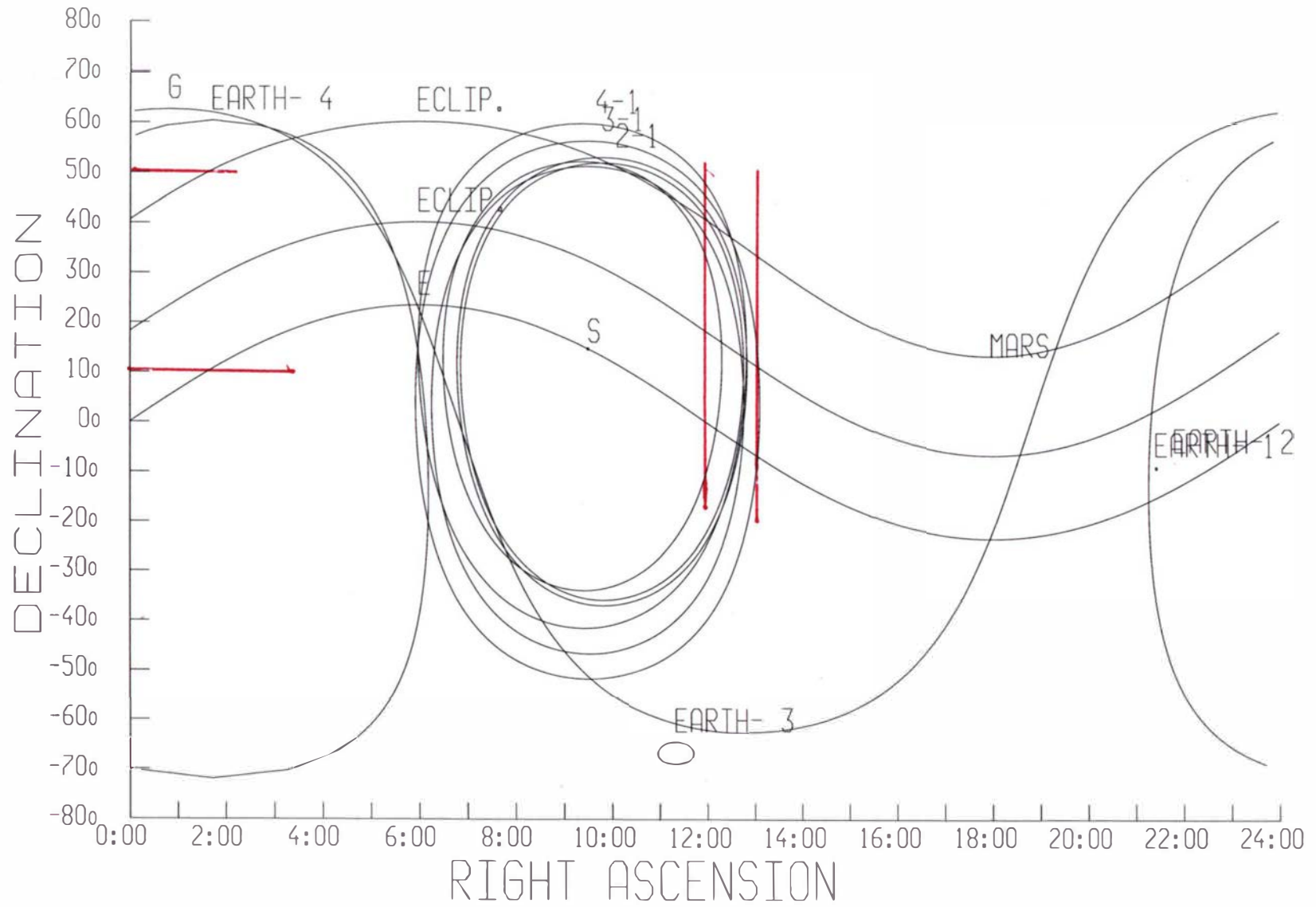
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

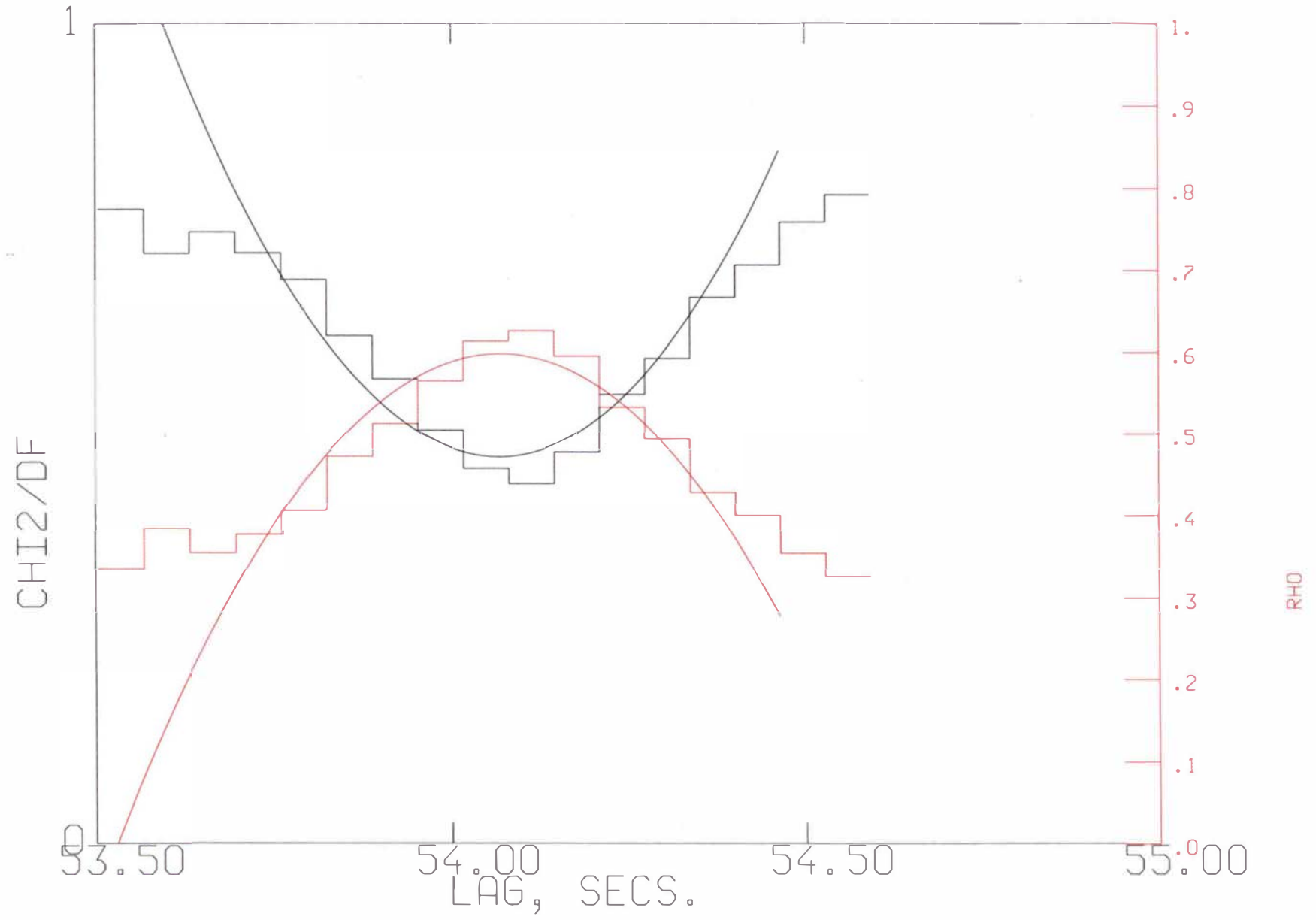


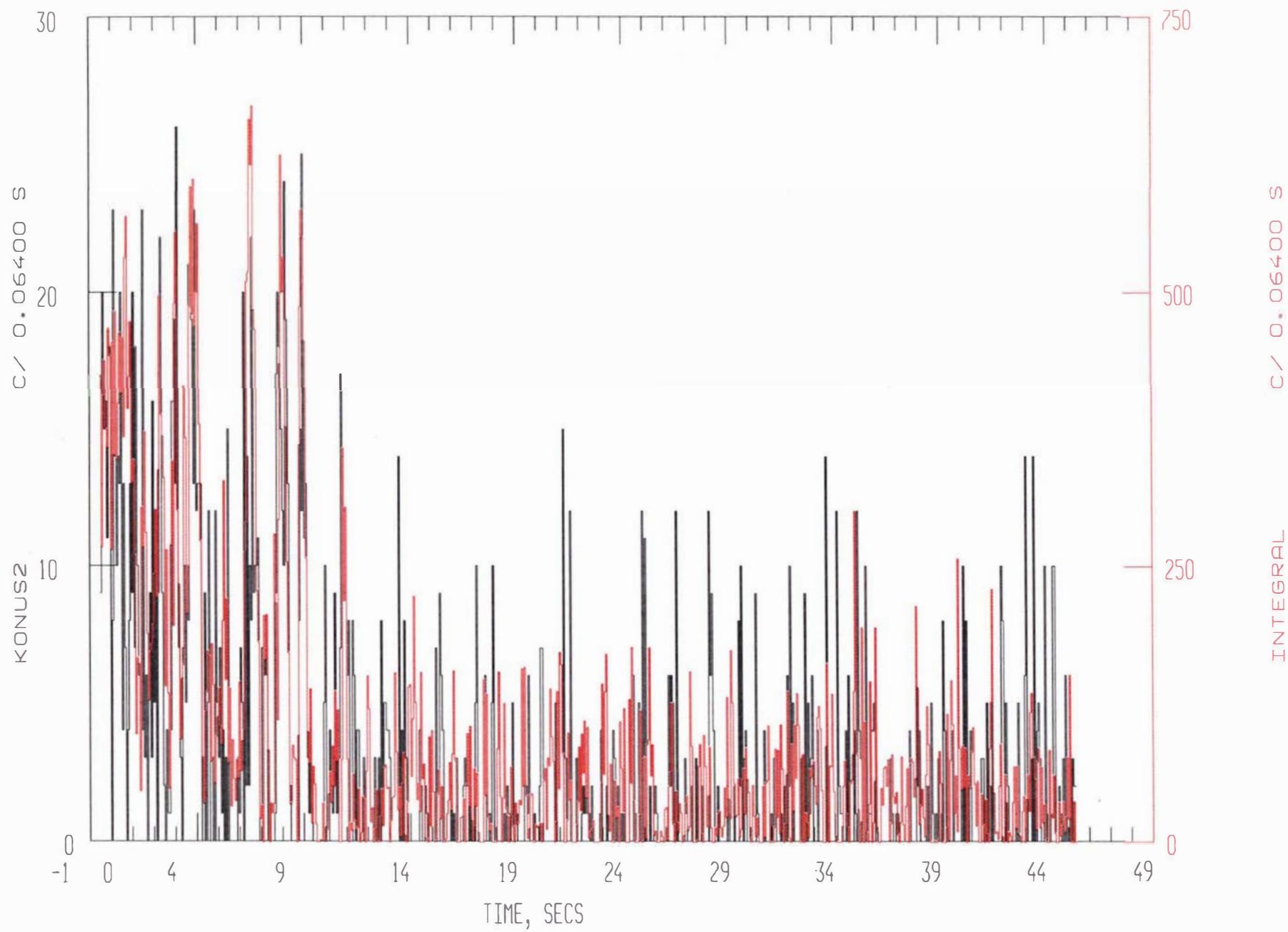
EVENT OF AUG 13, 2011 8:45

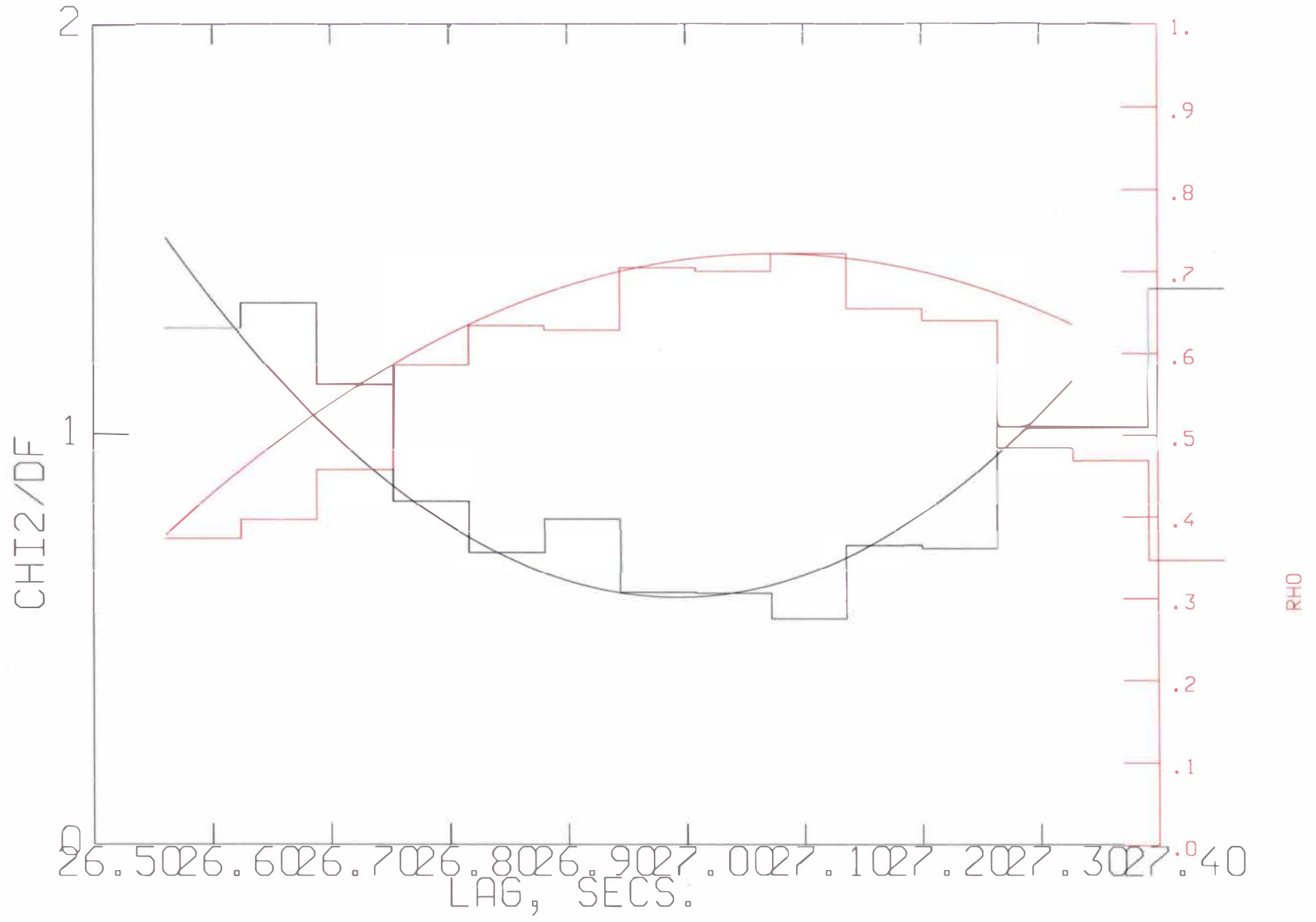
25/03/2013

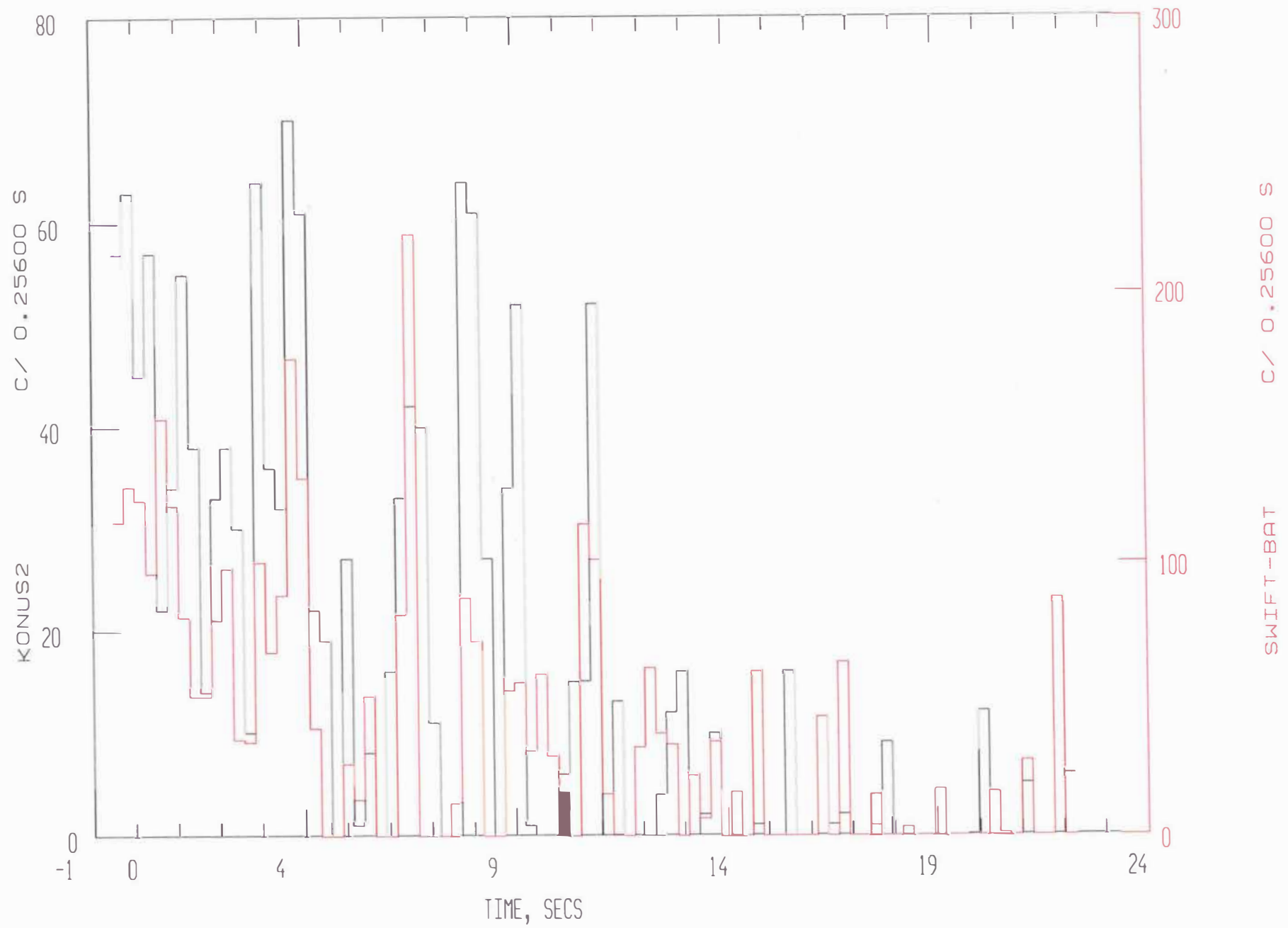
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN
1 KONUS2 2 MESSENGER 3 INTEGRAL 4 SWIFT
E=ECLIPTIC G=GALACTIC EQUATOR

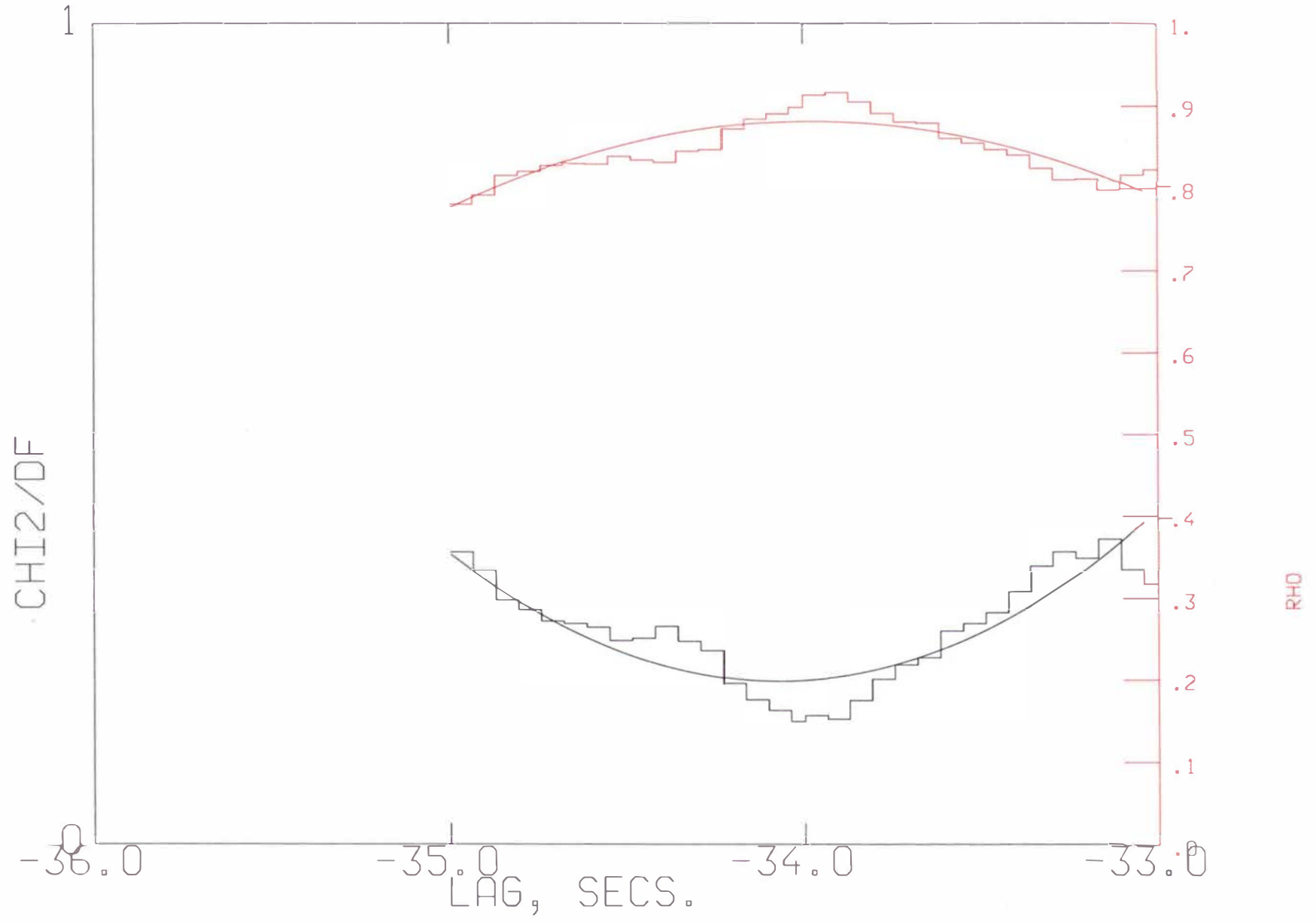


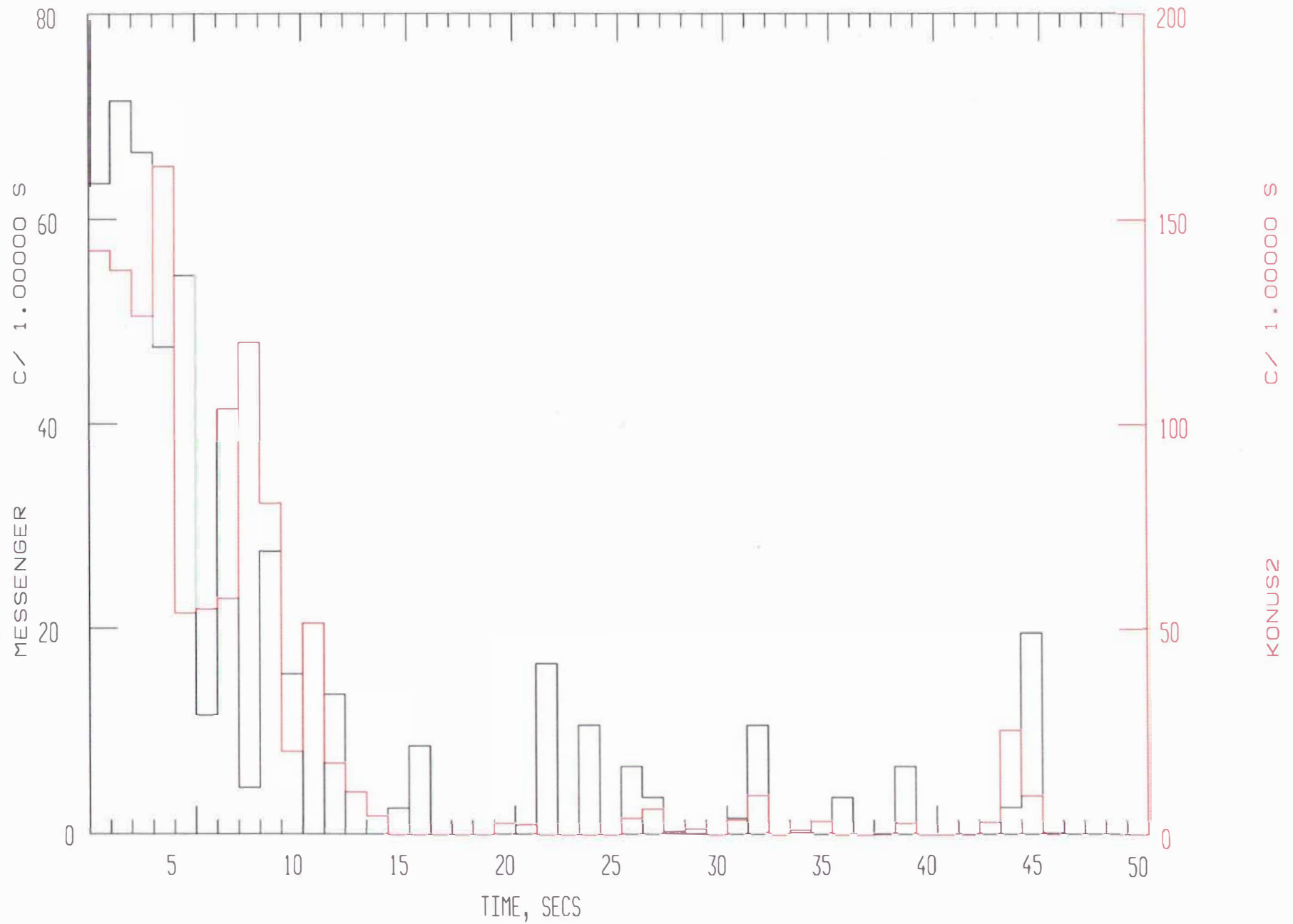








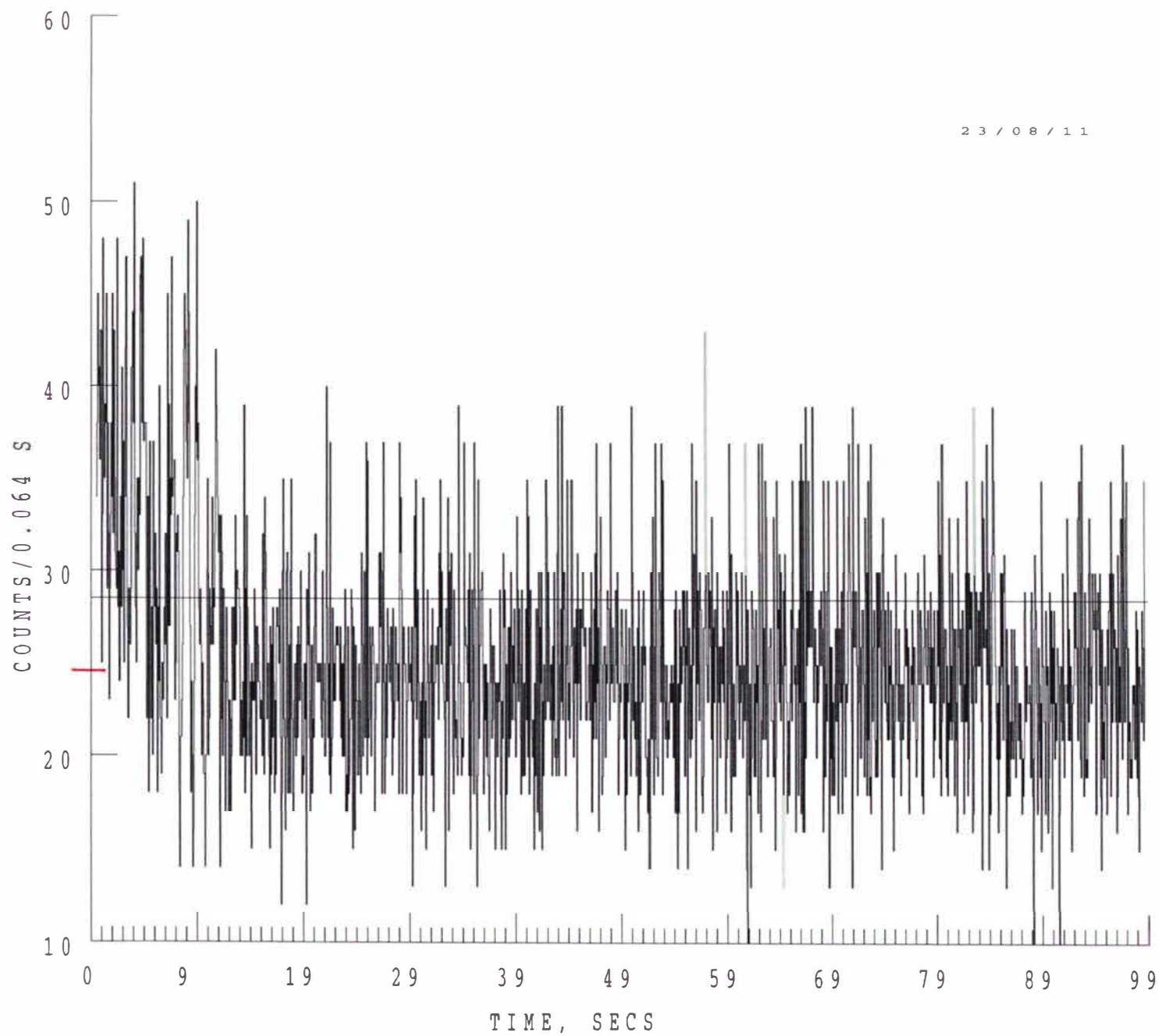




KONUS2

13/08/11 31504.634

50- 200 keV



KONUS HRES 20110813 31504

TRIGGER TIME: 13/08/11 DOY 225 Julian 2455787.86463 UT = 08.751 08:45:04 (31504.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

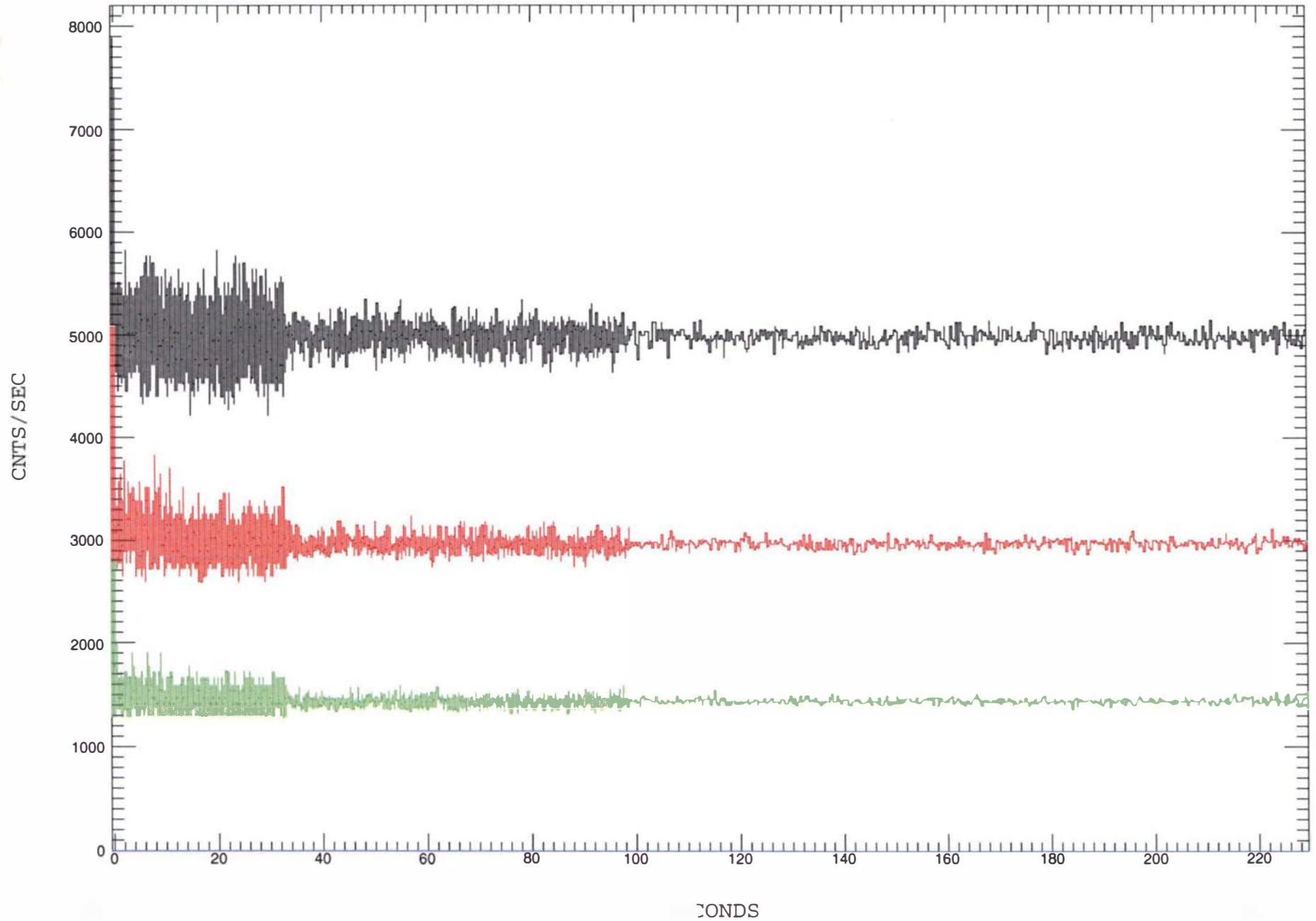
Chan 4 : [> 10 MeV]

Channel 1 + 3900

Channel 2 + 2600

Channel 3 + 1300

Channel 4 + 0

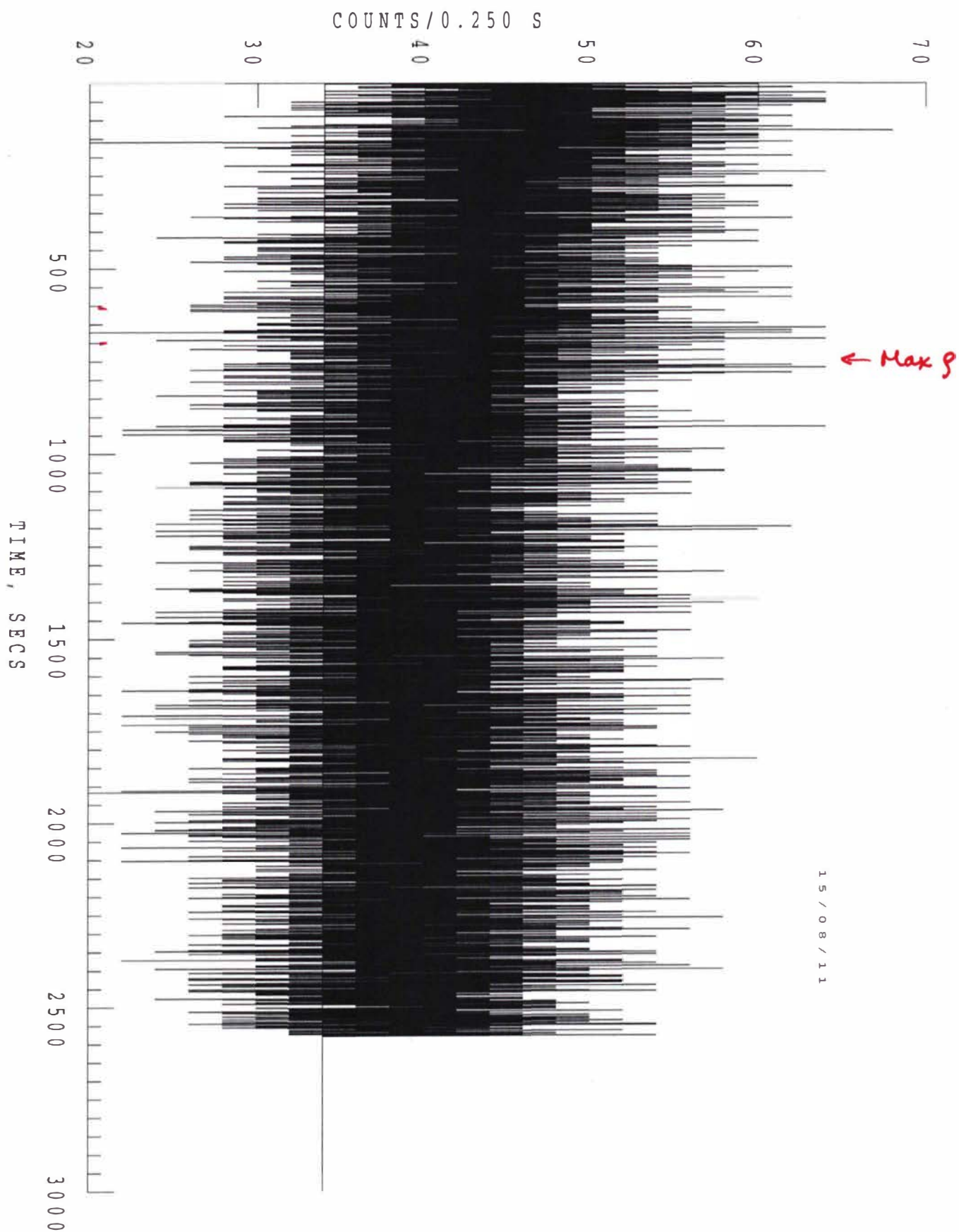


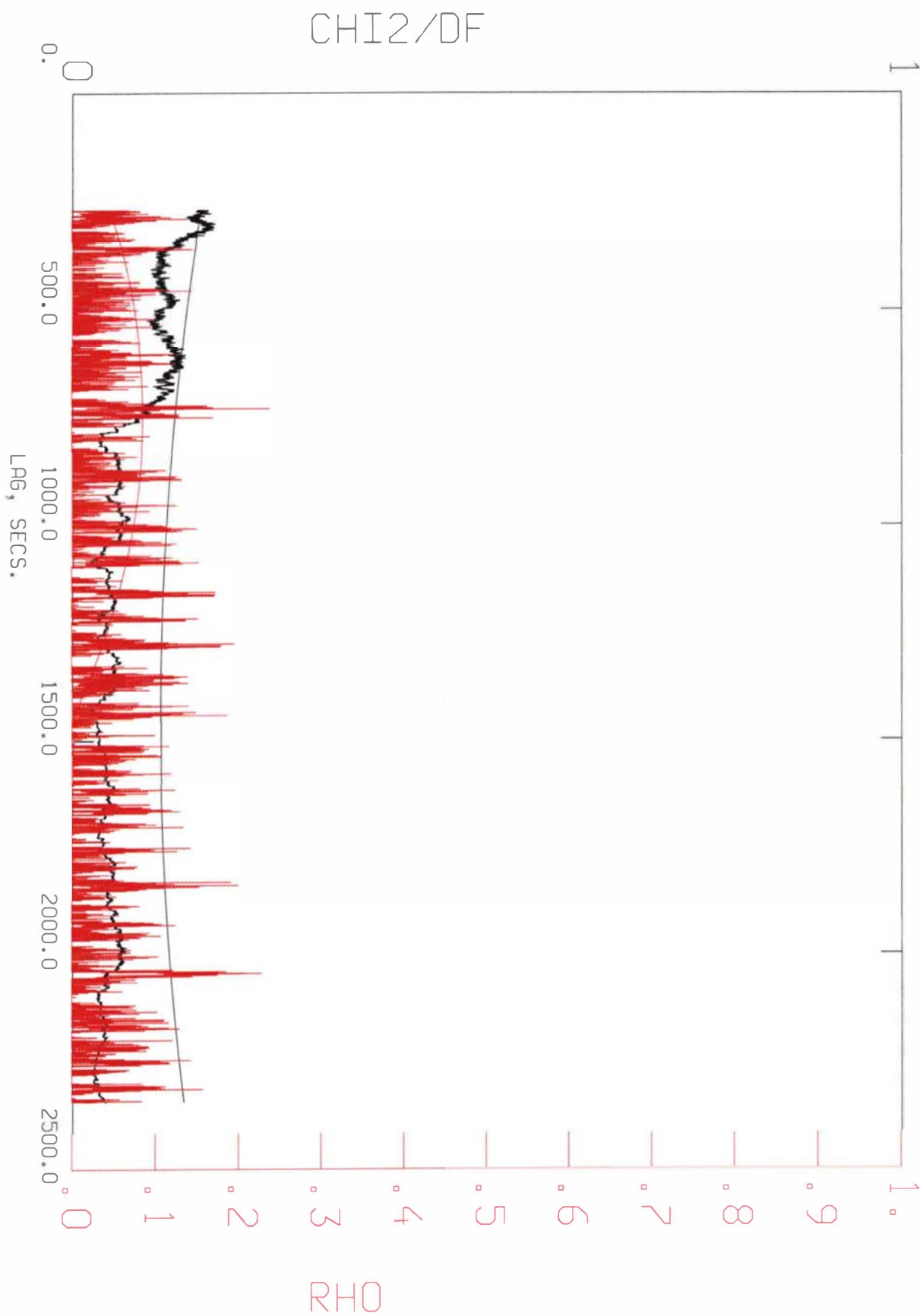
MS01

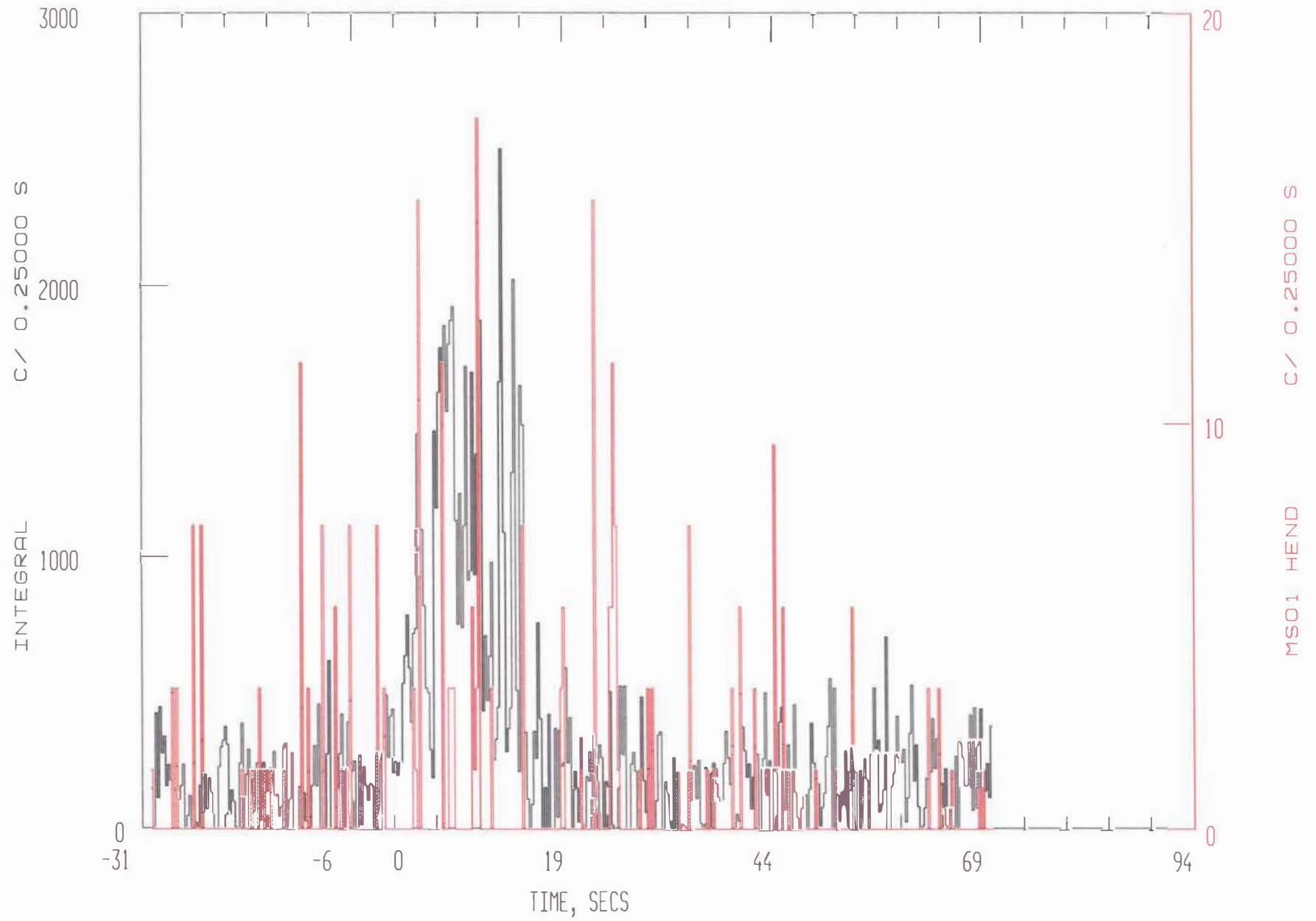
13/08/11

30196.394

50 - 3000 keV







From williams@gammaburst.ssl.berkeley.edu Mon Aug 15 15:03:11 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 15 Aug 2011 15:02:26 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
o: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20110813_31504
X-Ucb-Scan-Signature: c4291e5dceb456ba28813cab1d2ac93880583e0f
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.988'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 15-Aug-2011 15:02:47.00
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

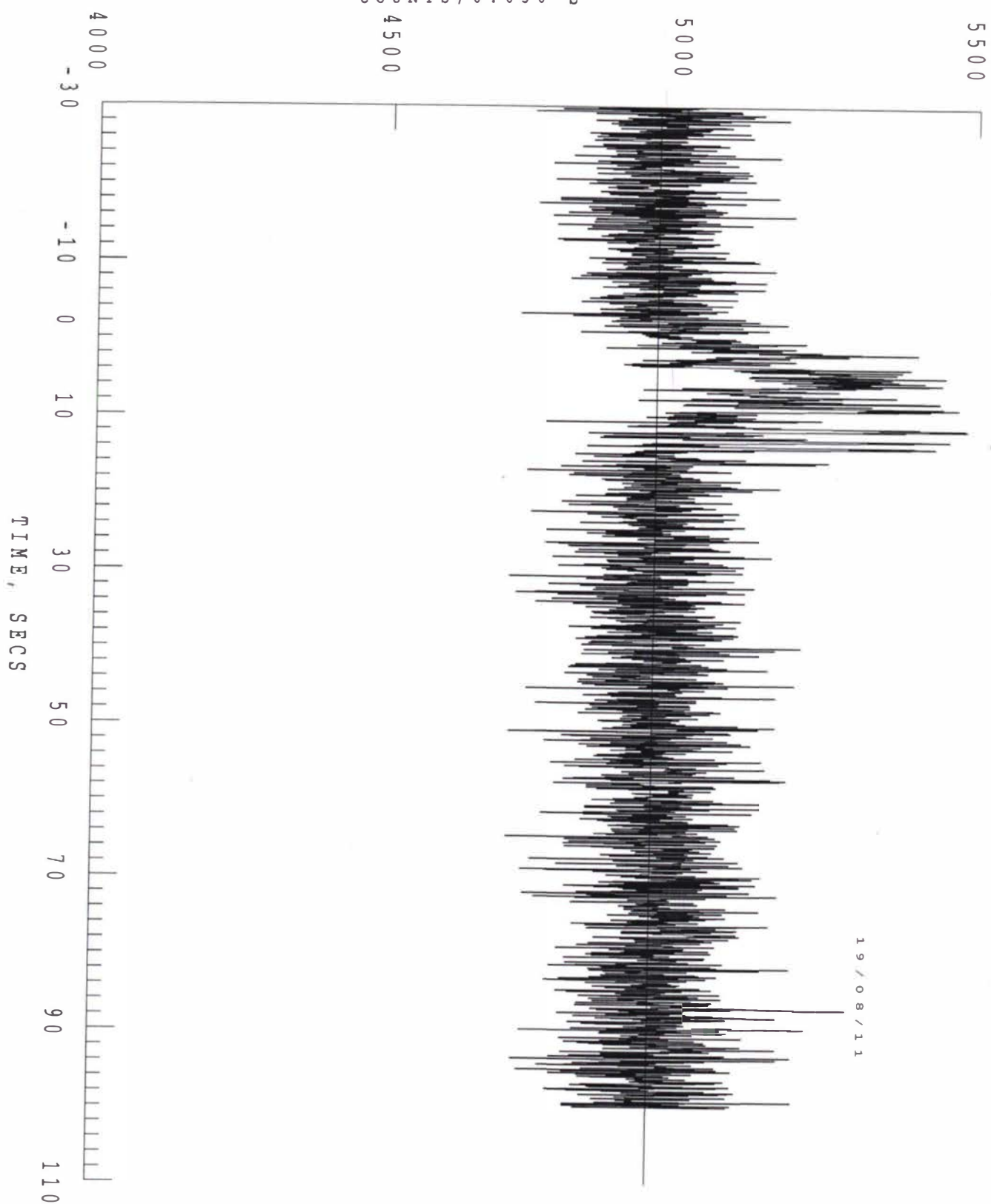
INTEGRAL

13/08/11

31502.325

100-10000 keV

COUNTS/0.050 s



Subject: [Ipn] BAT lightcurve for trigger at 110813_0845

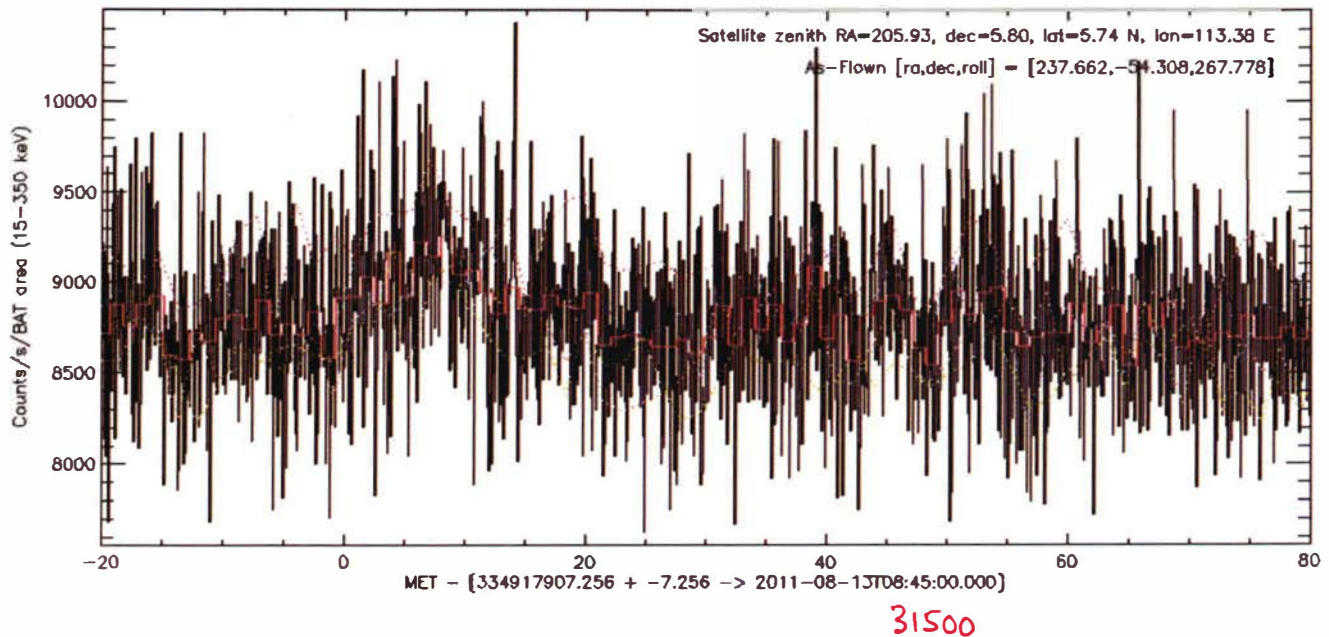
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 13 Aug 2011 10:40:03 -0600 (MDT)

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

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

/tmp/110813_0845.png



```
% /usr/local/bin/swinfo -o 334917907.256
Time(MET + UTC -> UT):      334917907.256 + -7.256 -> 2011-08-13T08:45:00.000
Swift Zenith(RA,dec):       205.93, 5.80
Swift Location(lon,lat,alt): 113.38 E, 5.74 N, 584 km
Obs Sequence Number:        00091032016
Obs Target Name:             1E 1547.0-5408
Obs Date and Times:          2011-08-13 08:27:54 - 08:54:49
Obs Pointing(ra,dec,roll):   237.662, -54.308, 267.78
```

--
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>

/tmp/110813_0845.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110813_0845_bat64ms_ipn

/tmp/110813_0845_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

29/09/11

MESSENGER

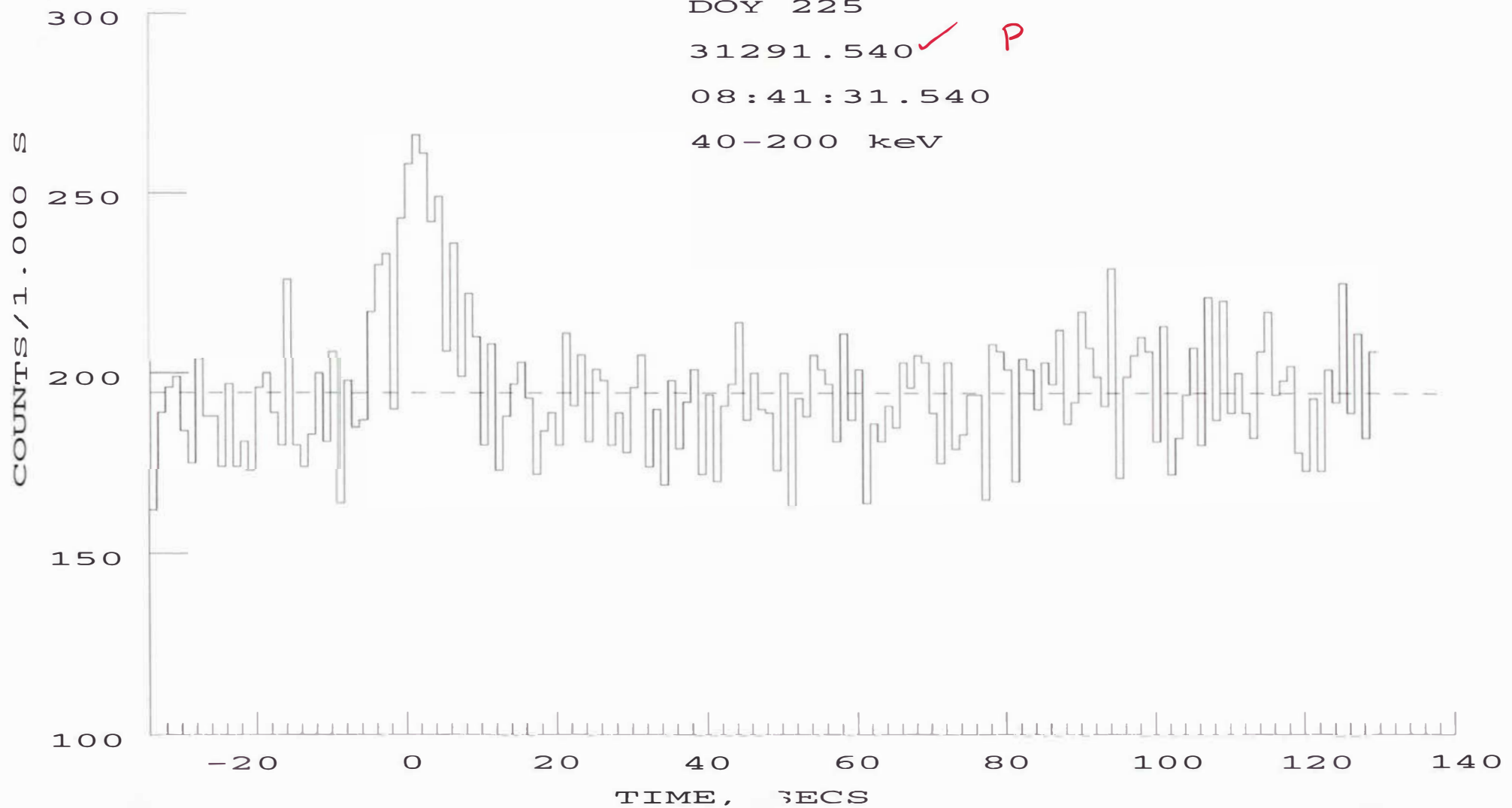
13/08/11

DOY 225

31291.540 ✓ P

08:41:31.540

40-200 keV



29/09/11

MESSENGER

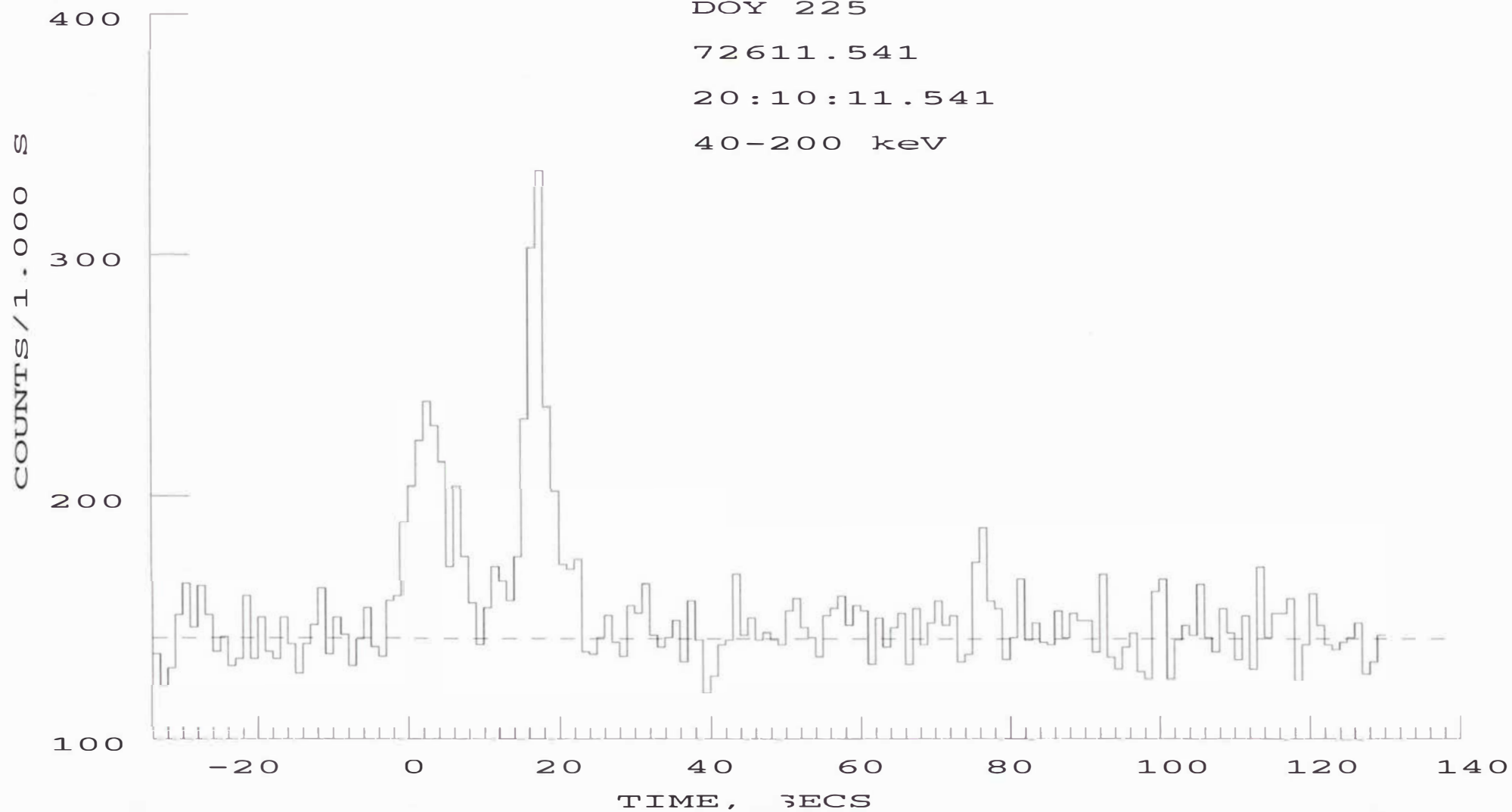
13/08/11

DOY 225

72611.541

20:10:11.541

40-200 keV



29/09/11

MESSENGER

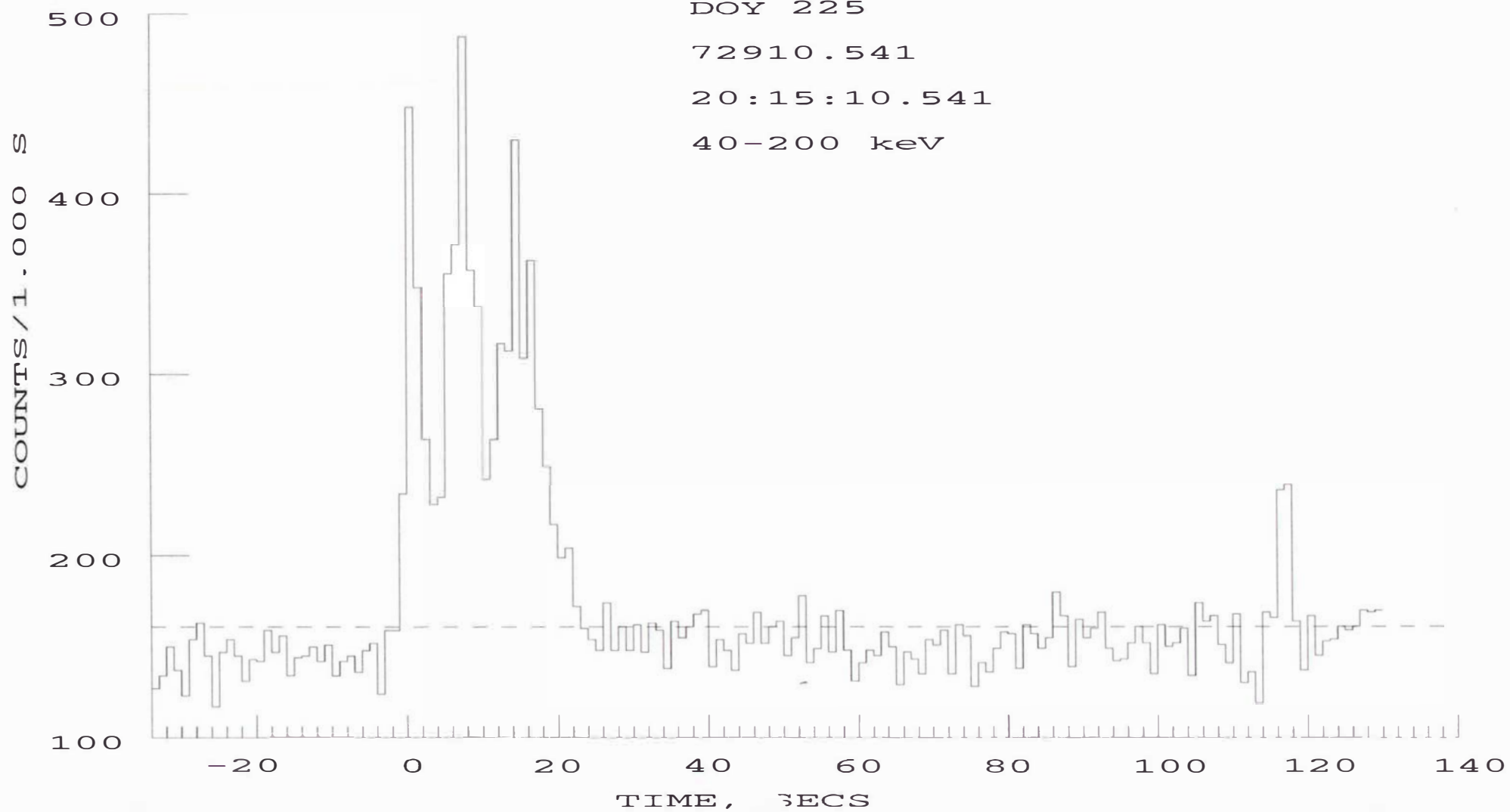
13/08/11

DOY 225

72910.541

20:15:10.541

40-200 keV



29/09/11

MESSENGER

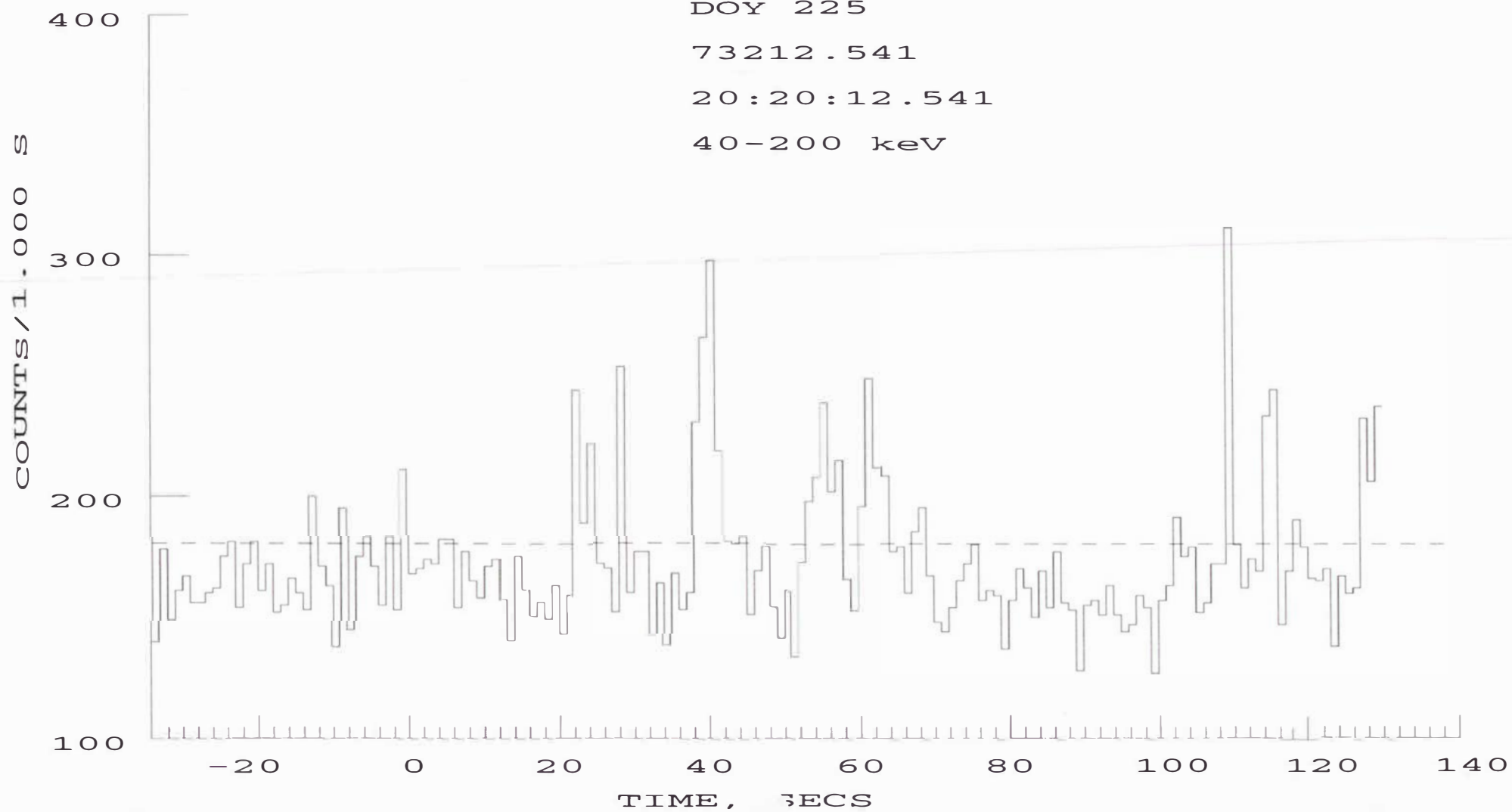
13/08/11

DOY 225

73212.541

20:20:12.541

40-200 keV



29/09/11

MESSENGER

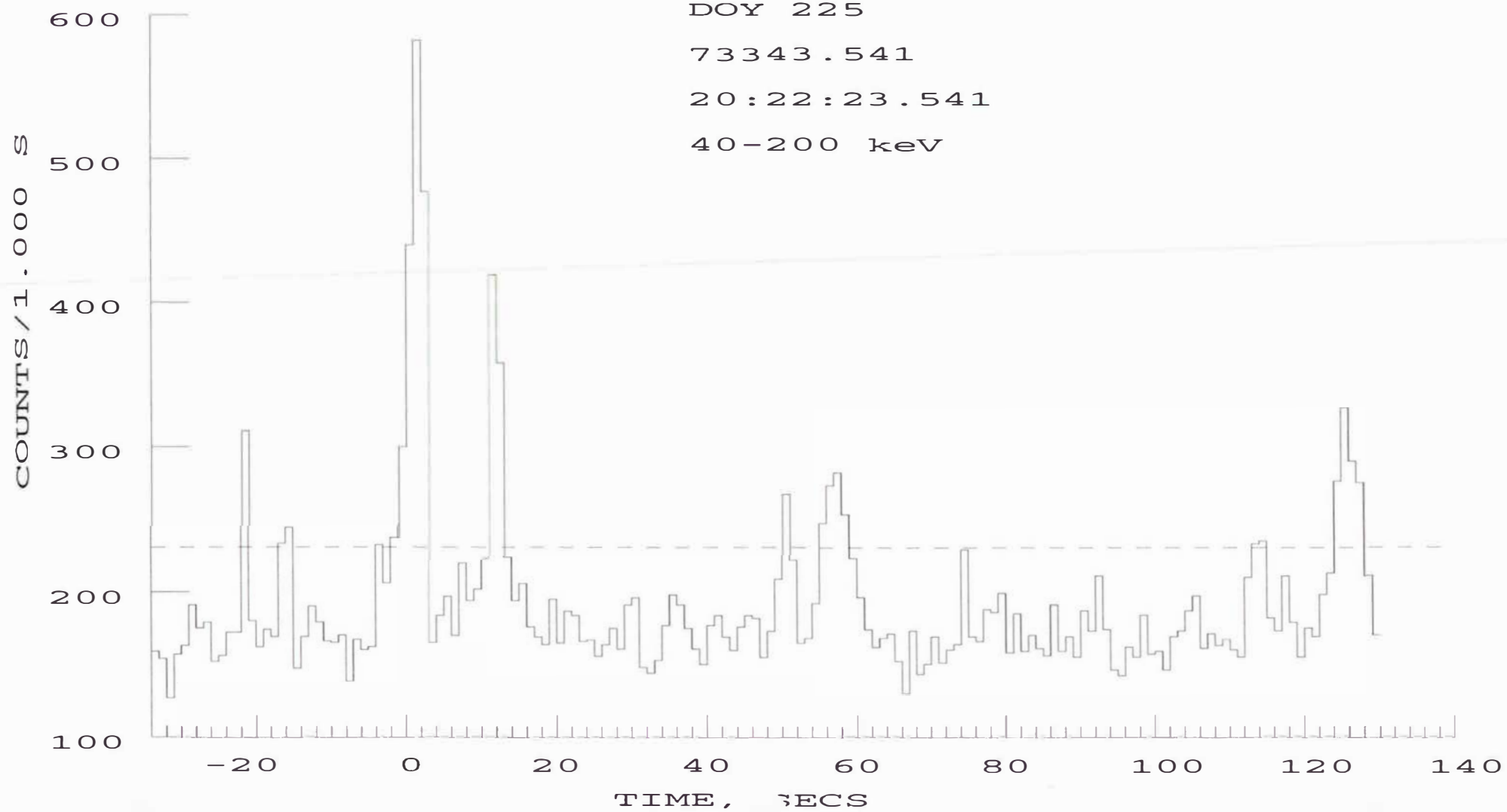
13/08/11

DOY 225

73343.541

20:22:23.541

40-200 keV



29/09/11

MESSENGER

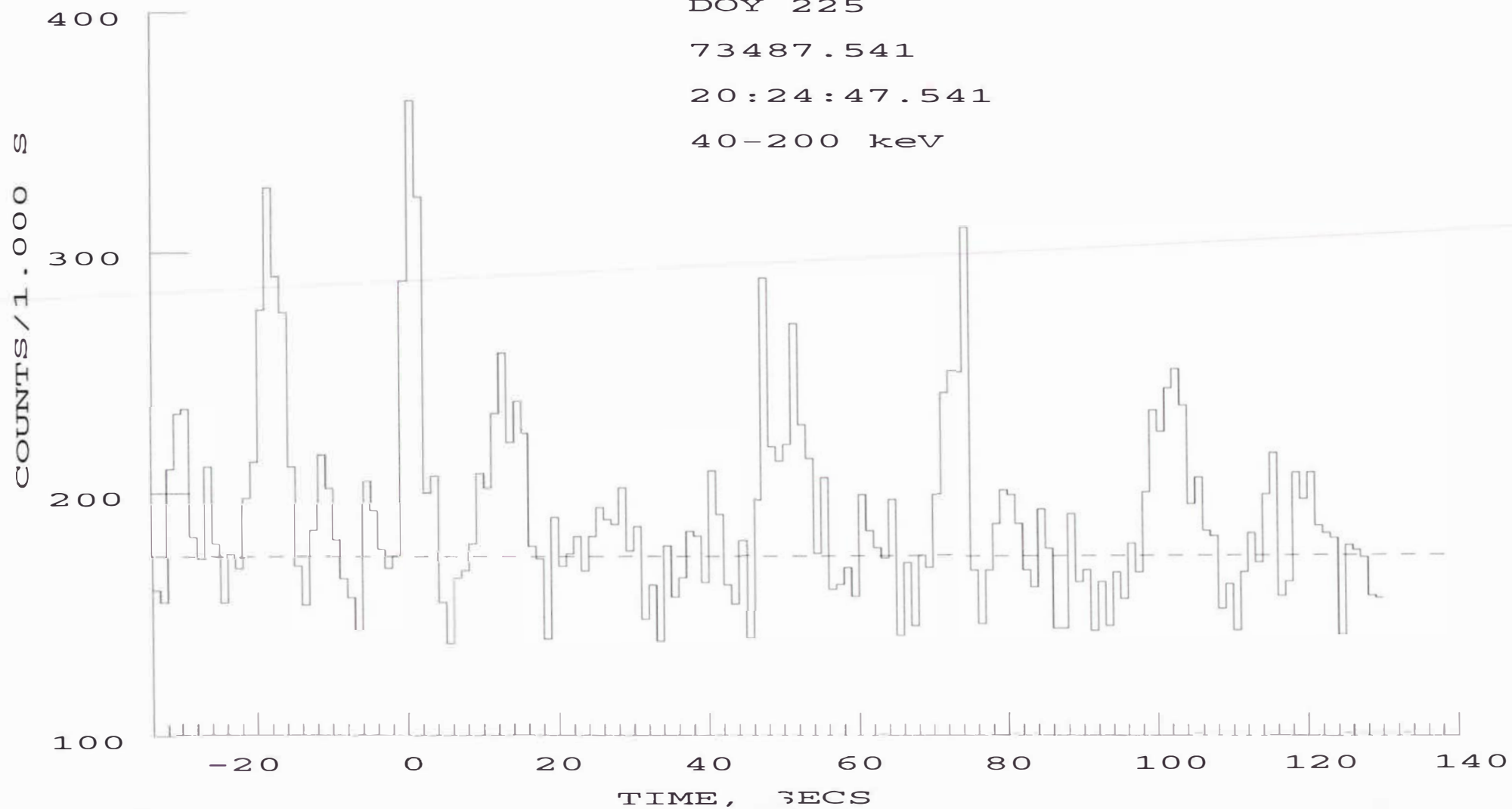
13/08/11

DOY 225

73487.541

20:24:47.541

40-200 keV



29/09/11

MESSENGER

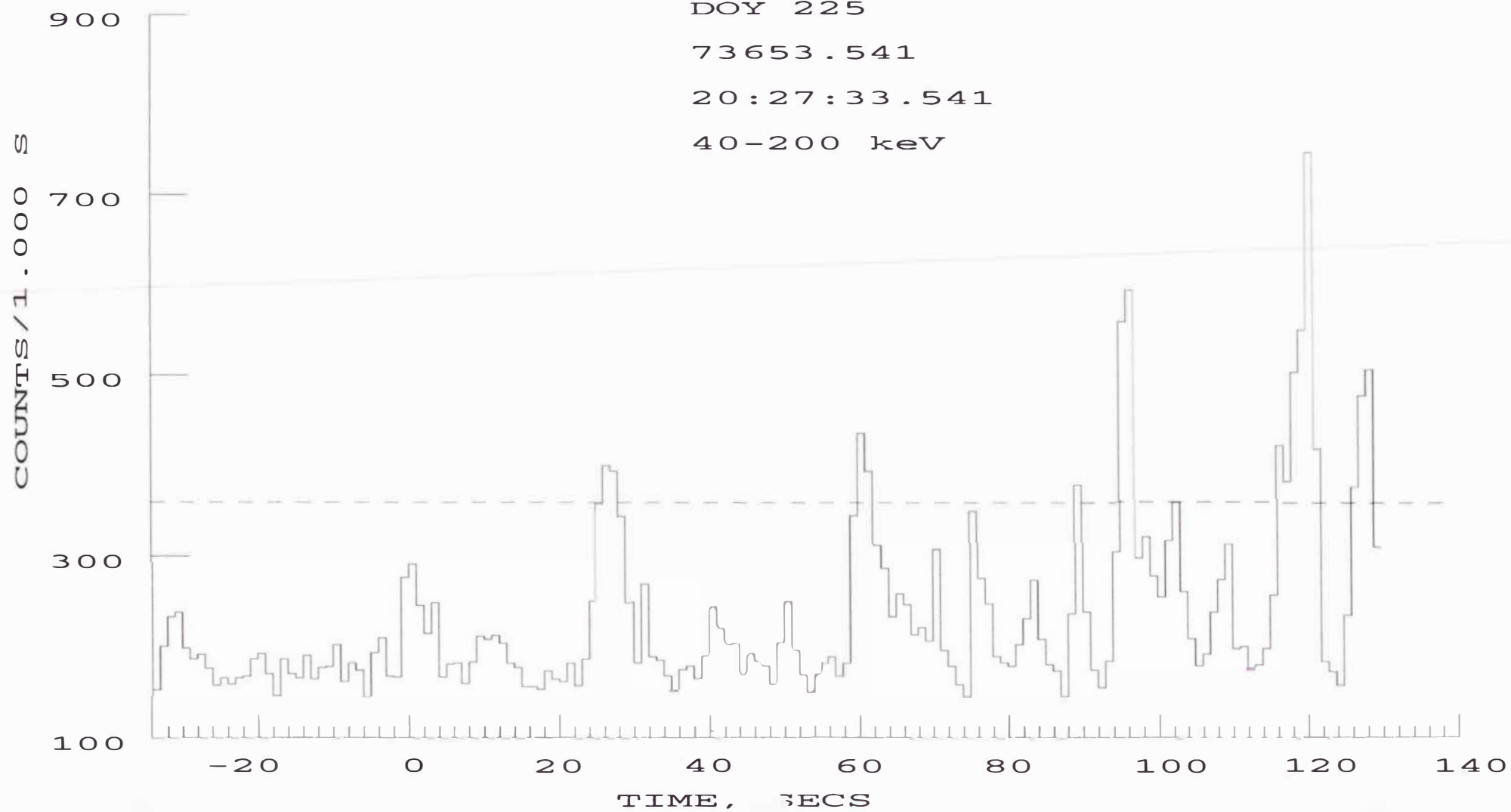
13/08/11

DOY 225

73653.541

20:27:33.541

40-200 keV



29/09/11

MESSENGER

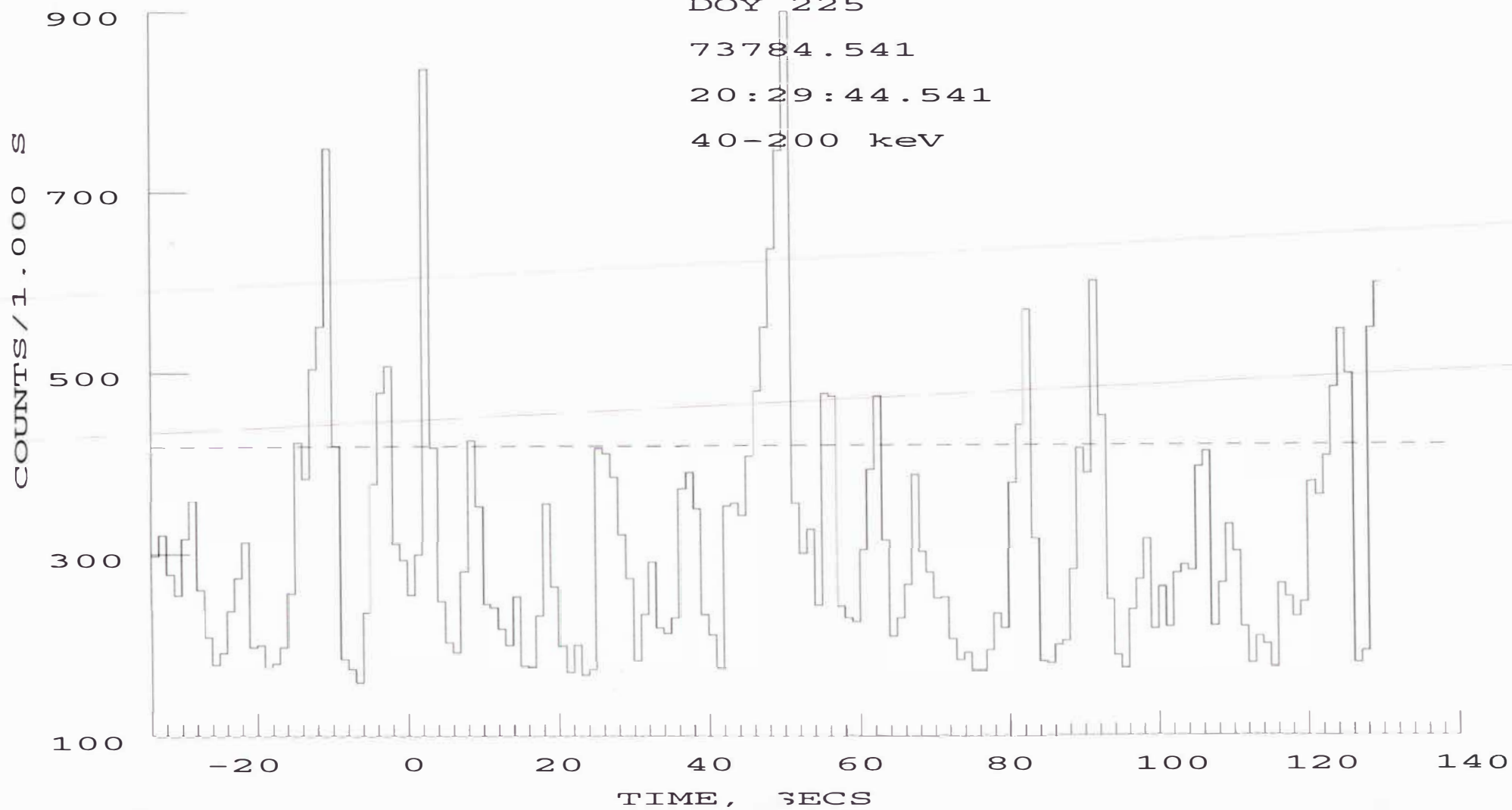
13/08/11

DOY 225

73784.541

20:29:44.541

40-200 keV



29/09/11

MESSENGER

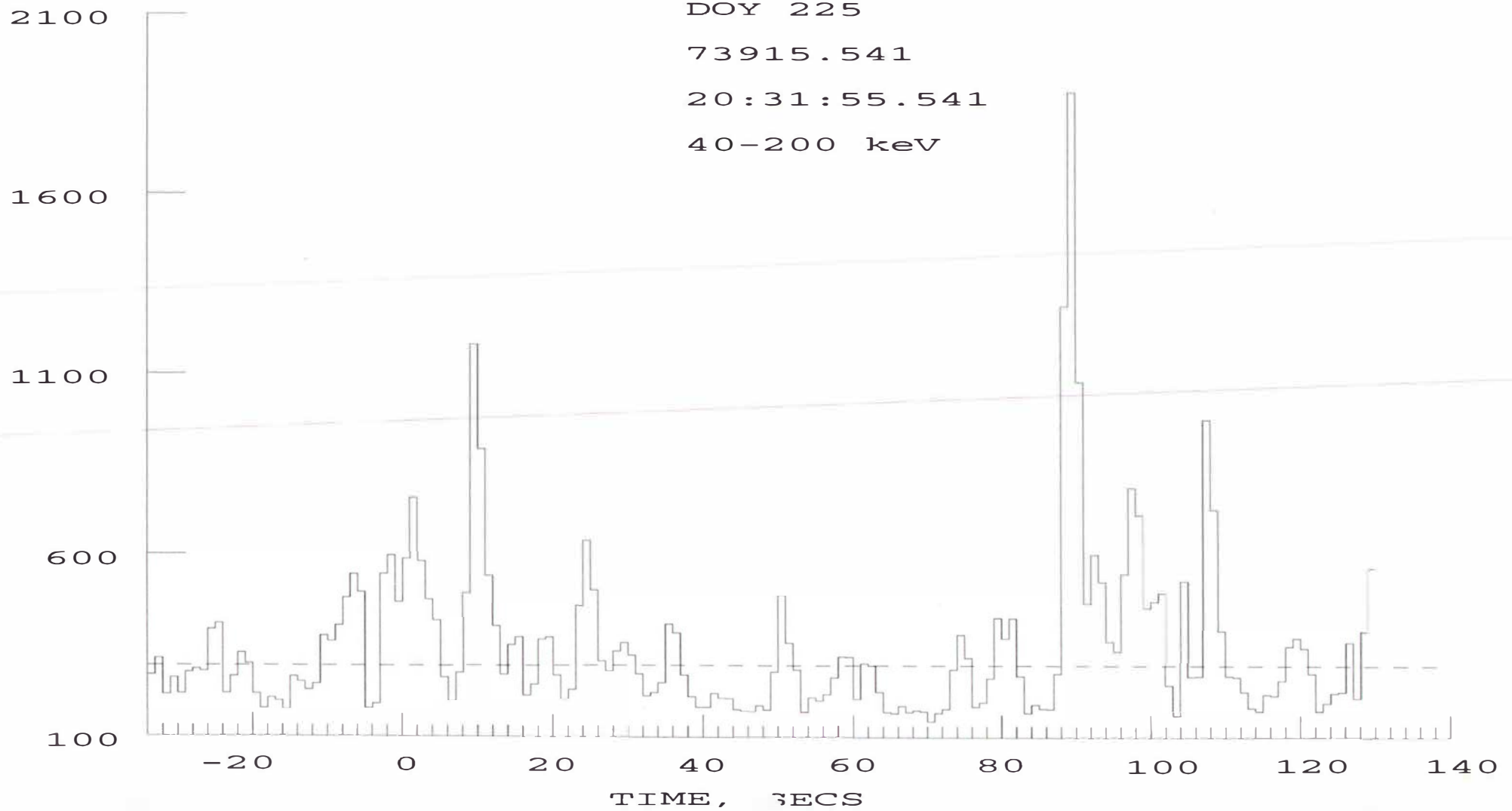
13/08/11

DOY 225

73915.541

20:31:55.541

40-200 keV



29/09/11

MESSENGER

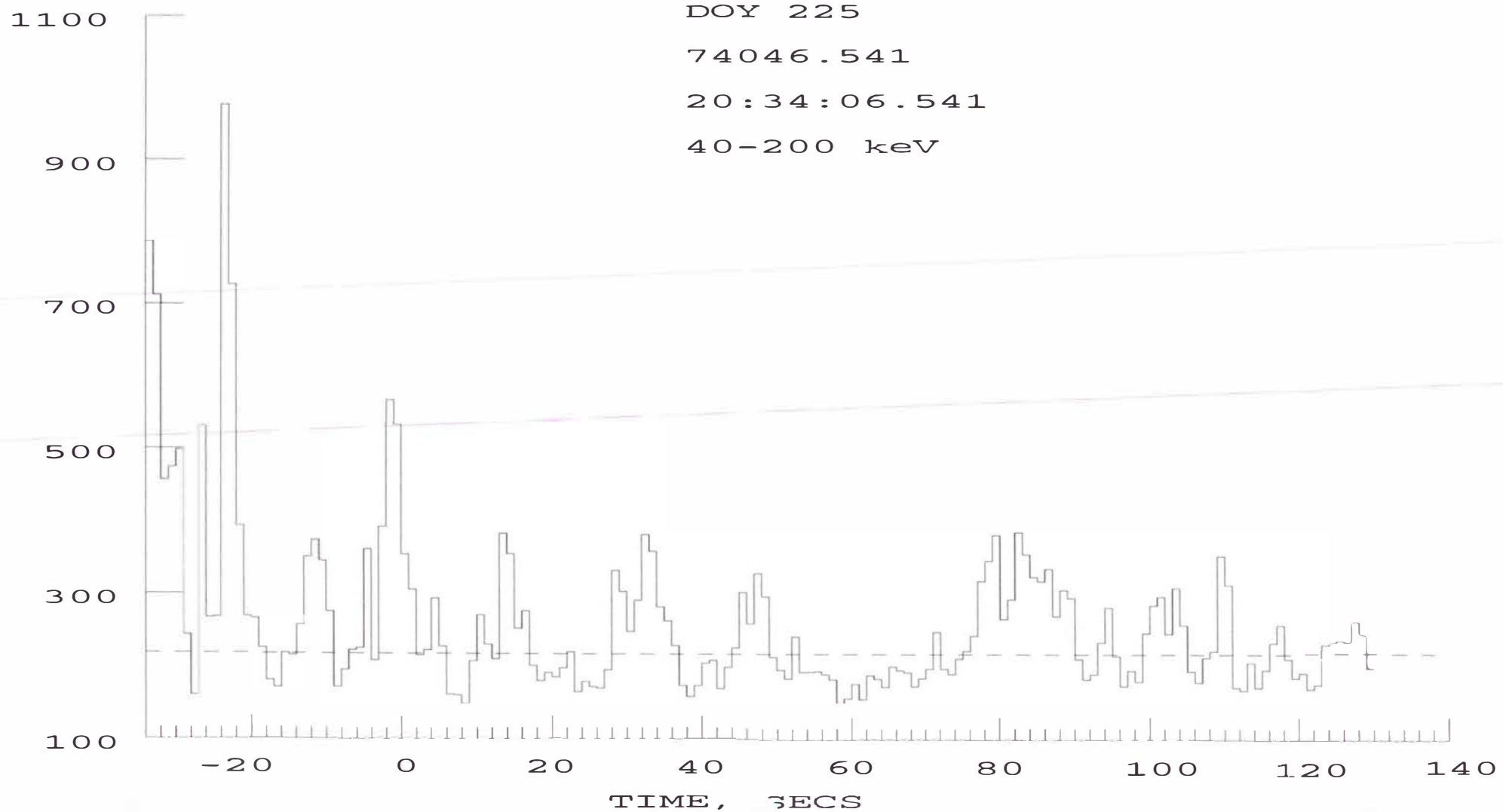
13/08/11

DOY 225

74046.541

20:34:06.541

40-200 keV



29/09/11

MESSENGER

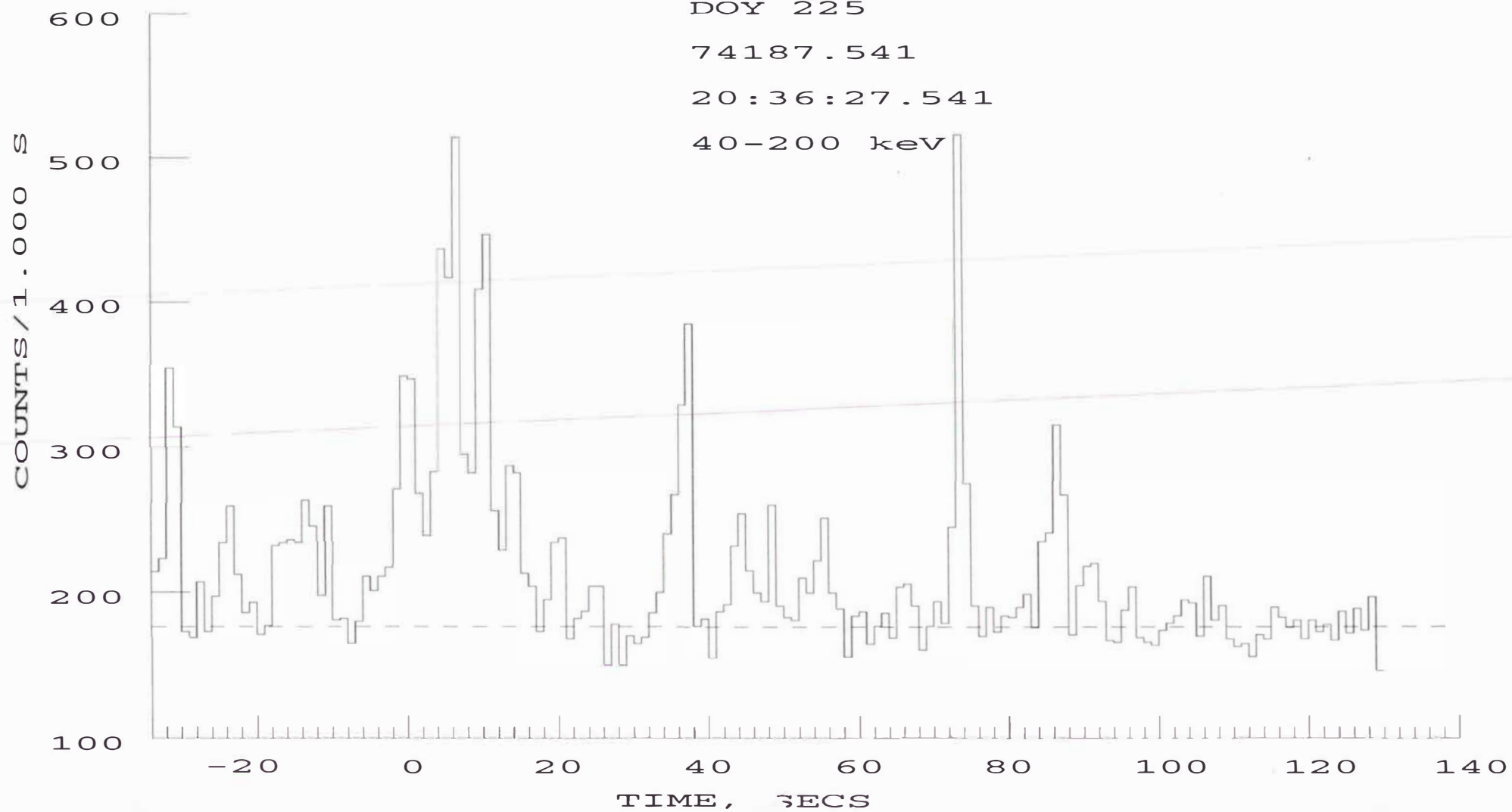
13/08/11

DOY 225

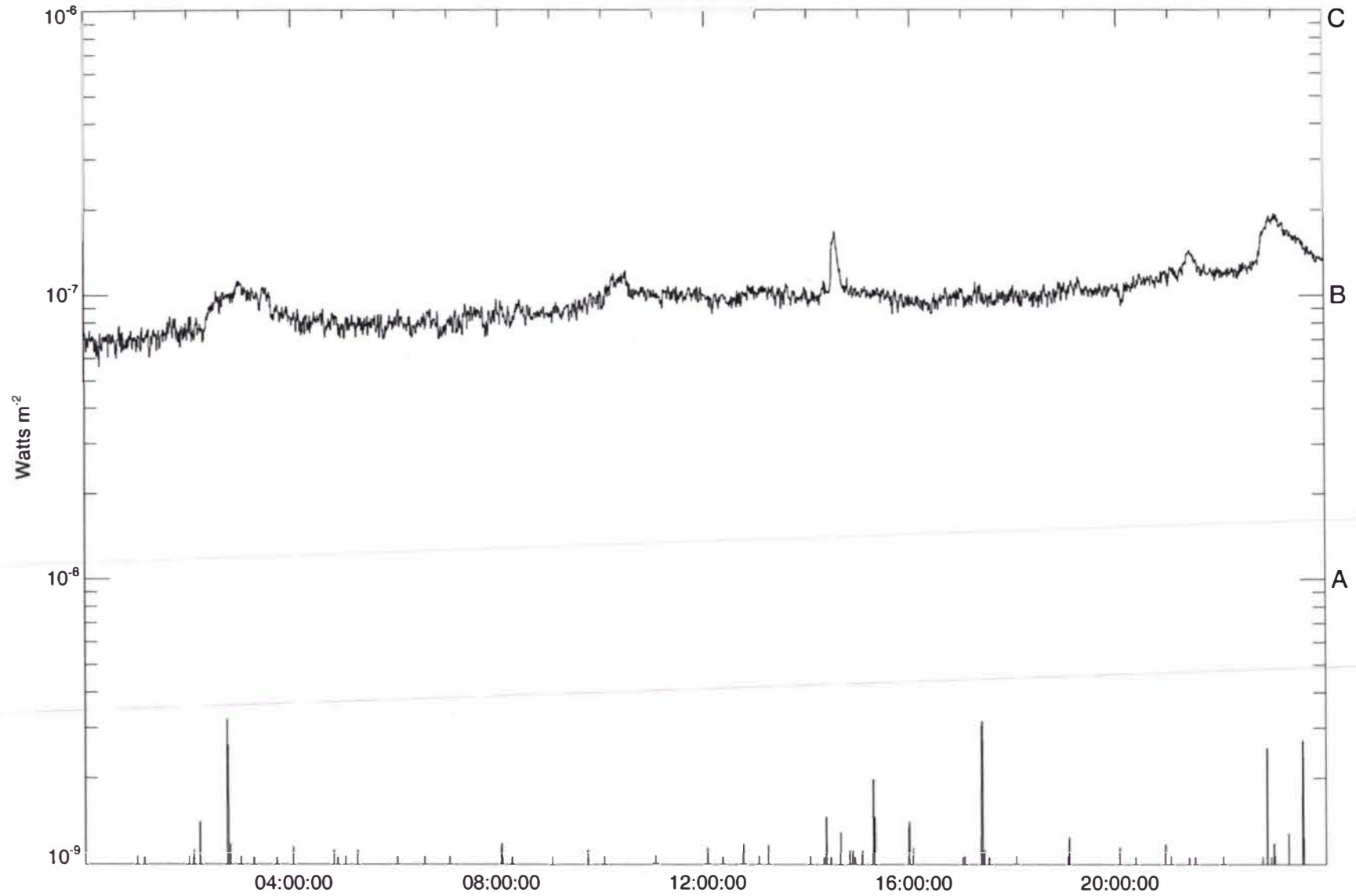
74187.541

20:36:27.541

40-200 keV



GOES 12



Data Start: 11/08/13, 0000:09

Plot created: 11/08/16, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

29/09/11

MESSENGER

13/08/11

DOY 225

76526.541

21:15:26.541

40-200 keV



29/09/11

MESSENGER

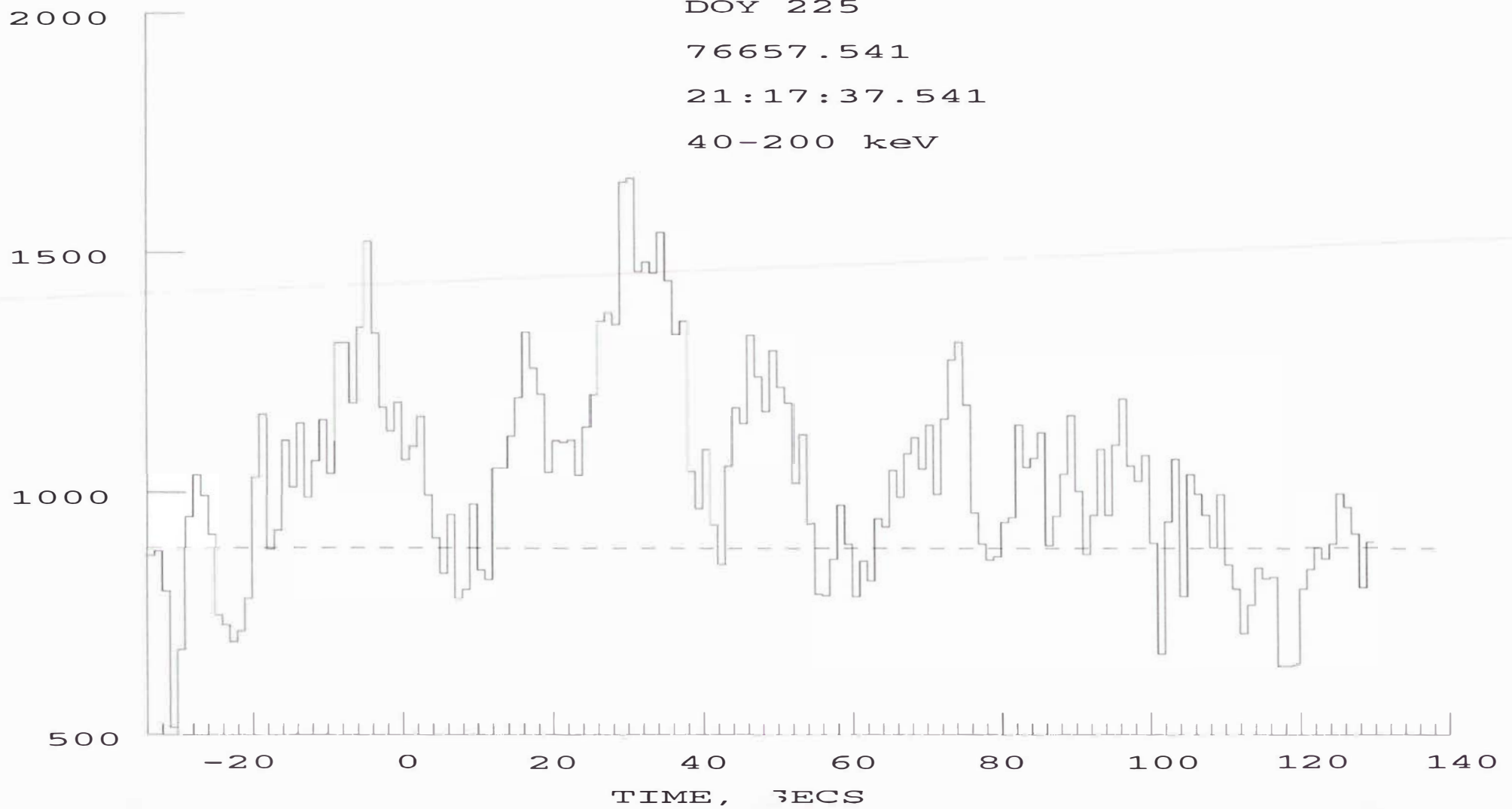
13/08/11

DOY 225

76657.541

21:17:37.541

40-200 keV



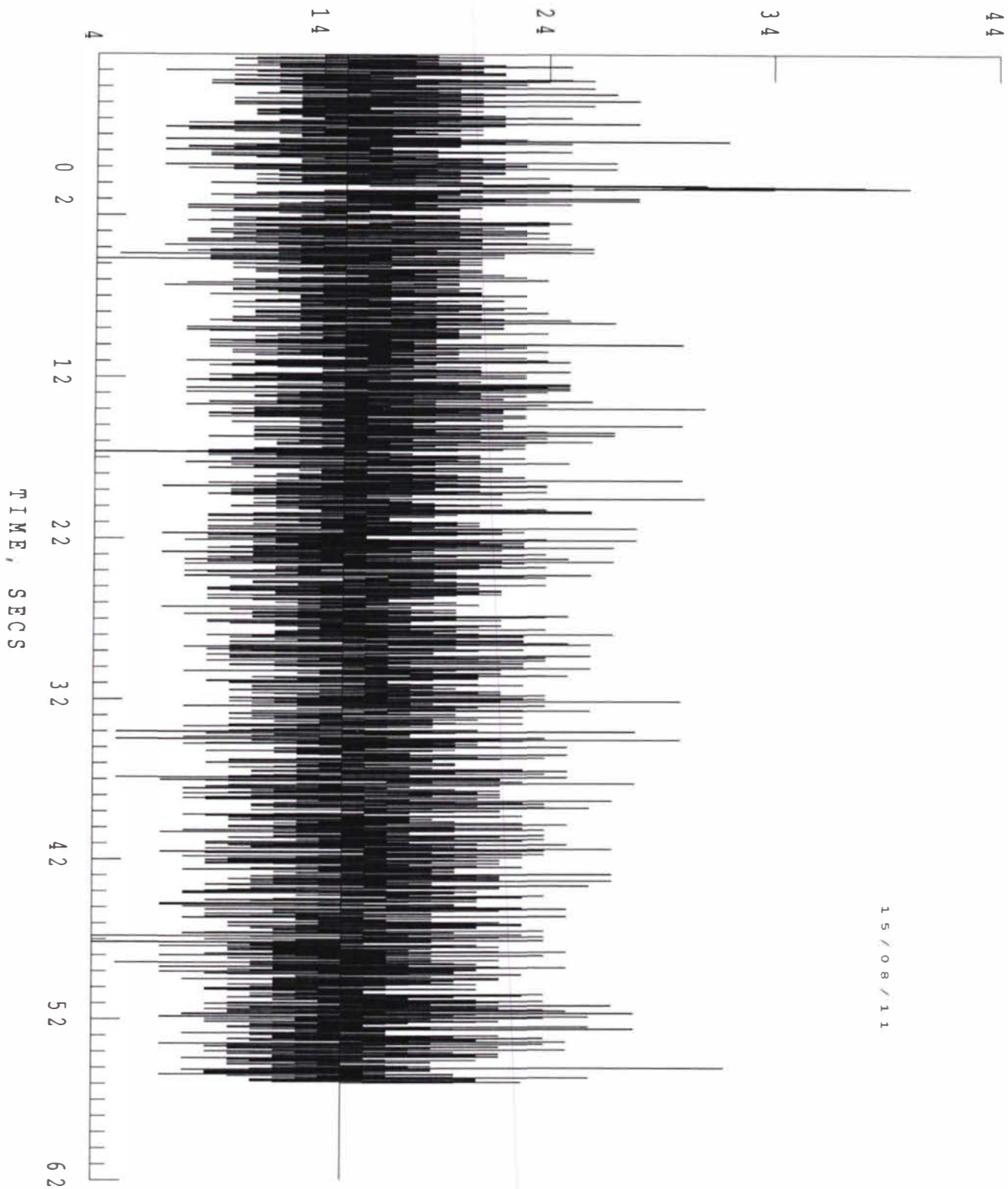
SUZAKU

14/08/11

23367.541

50 - 240 keV

COUNTS/0.016 S



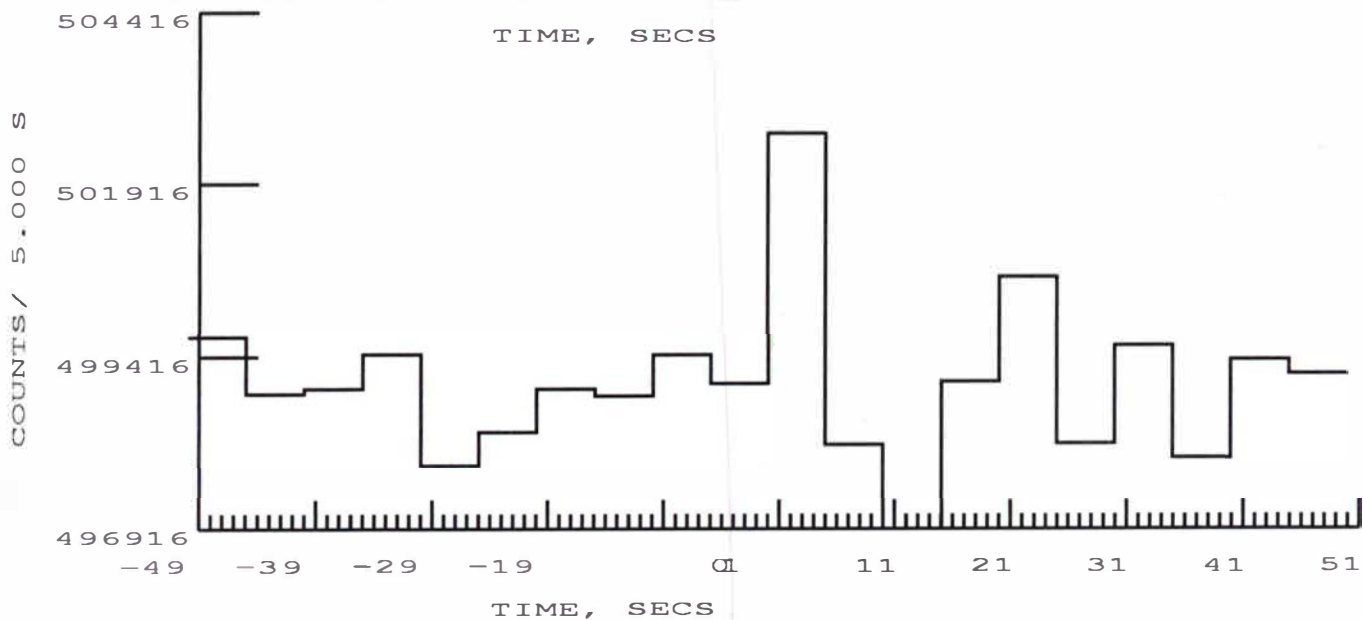
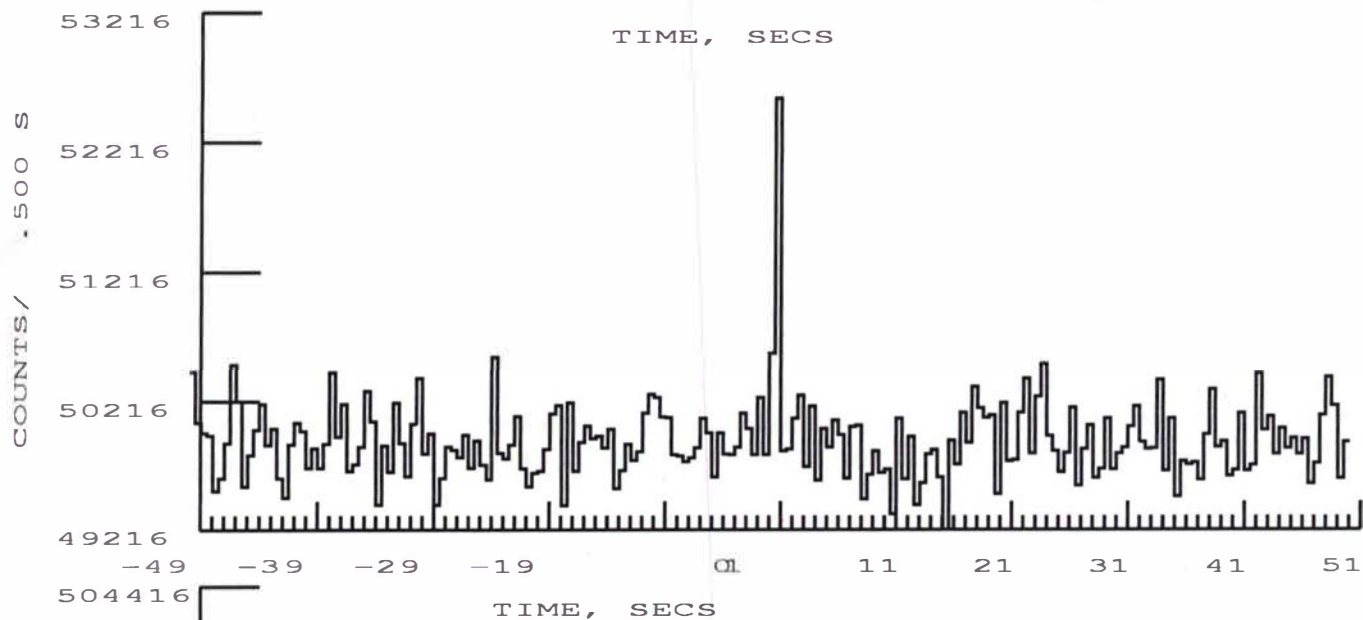
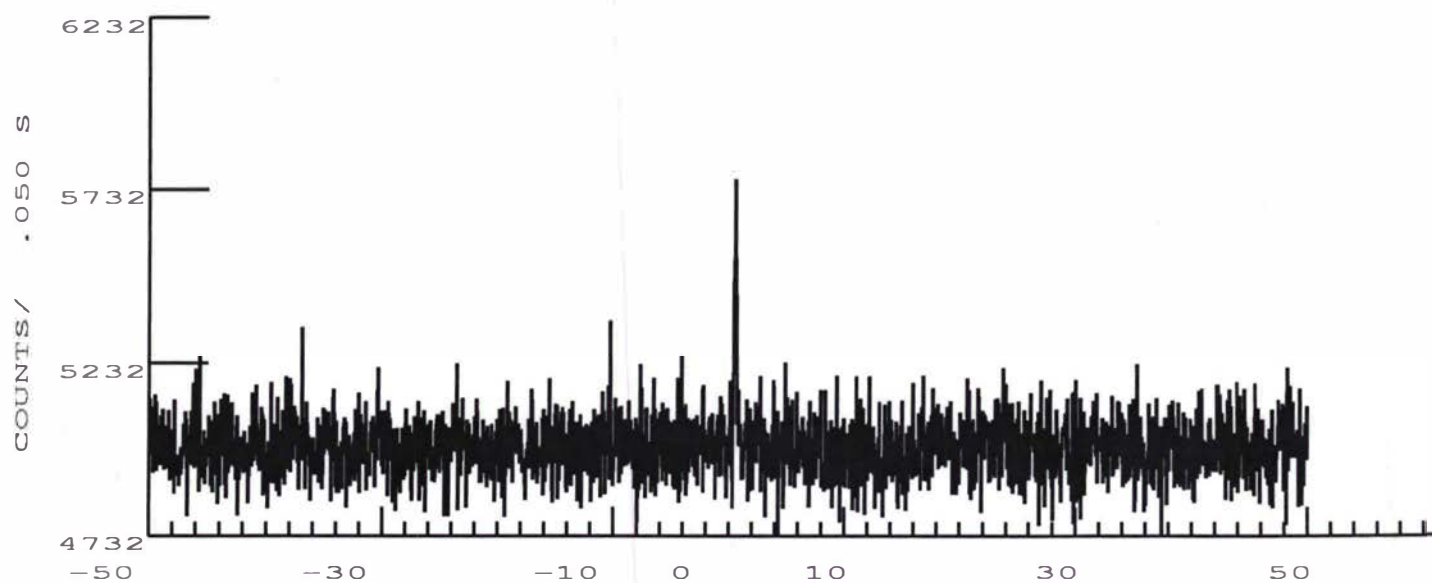
INTEGRAL

14/08/11

23367.000

06:29:27.0

20/01/14



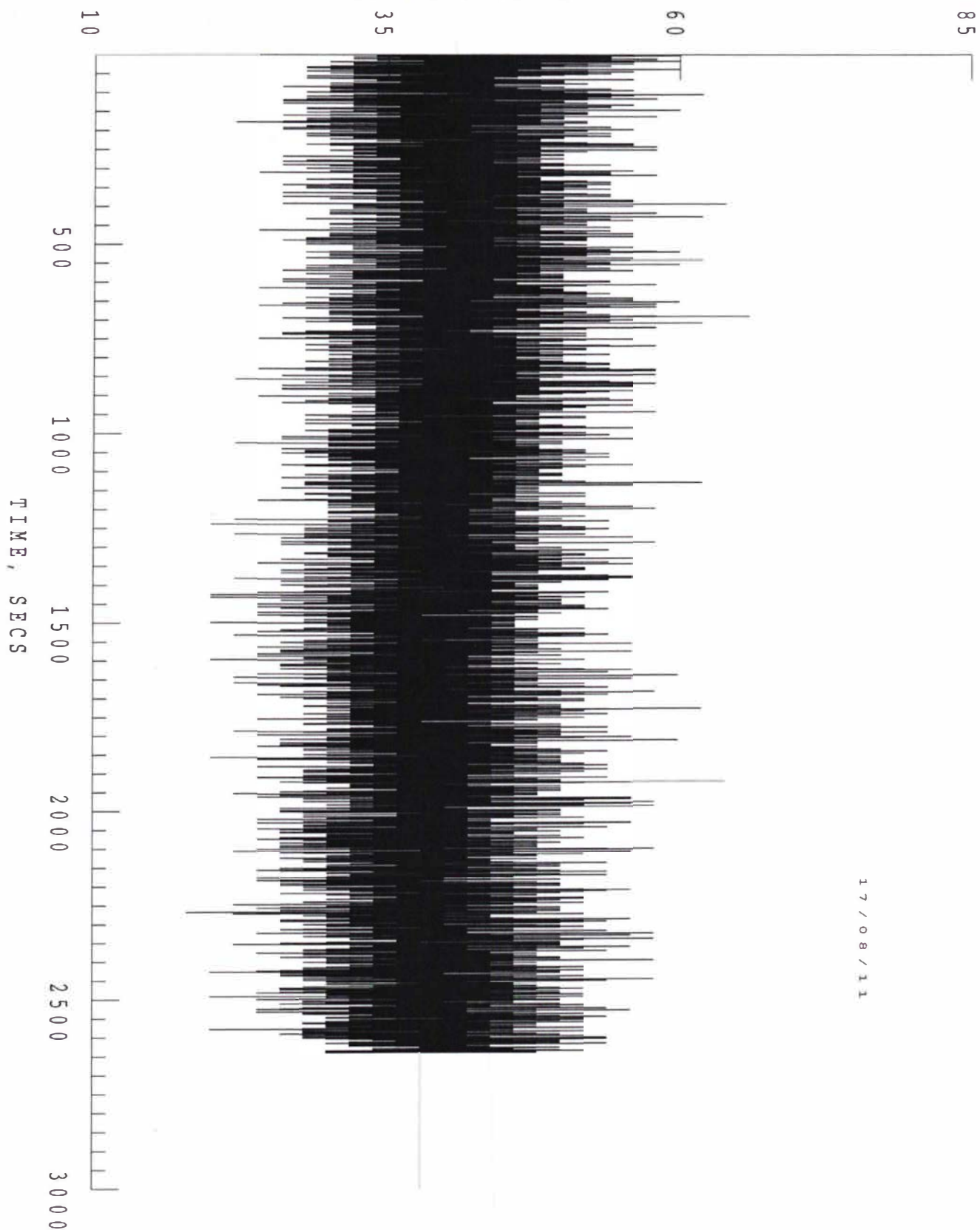
MS01

14/08/11

22035.070

50 - 3000 keV

COUNTS/0.250 S

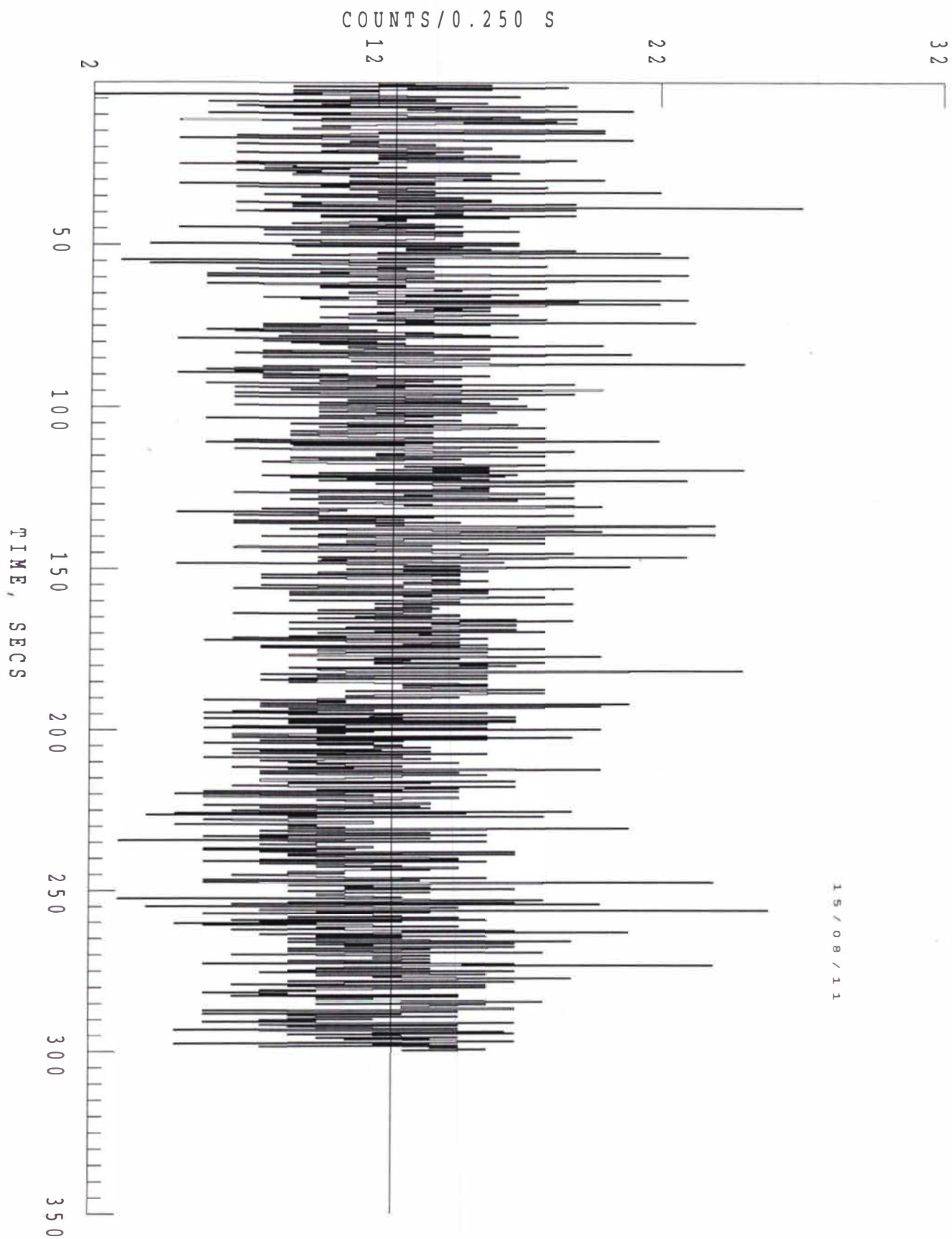


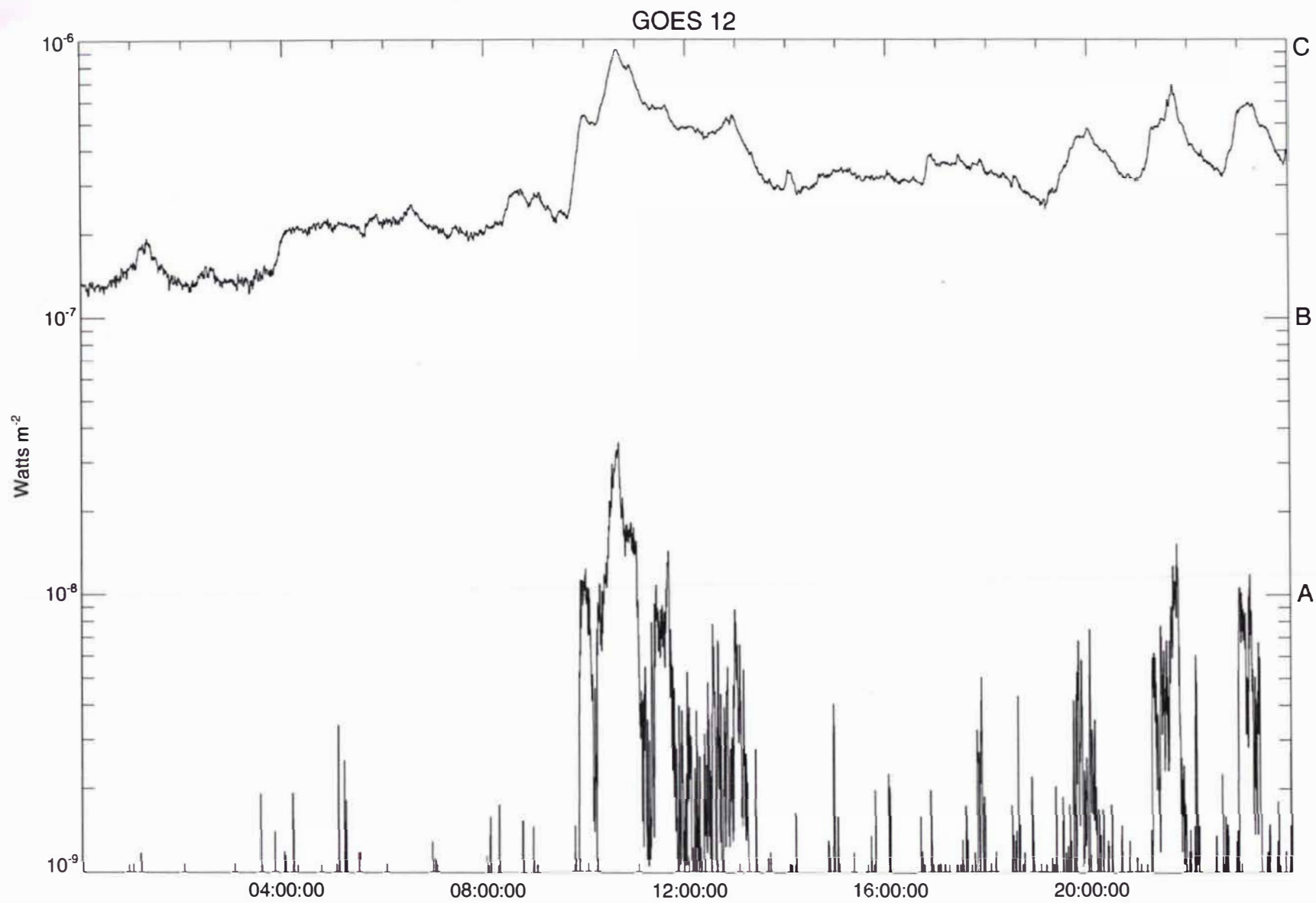
17/08/11

HESSI

14/08/11 23217.000 (SUZAKU_20110814_23367)

25- 150 keV





Data Start: 11/08/14, 0000:09

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 11/08/17, 0833

Sample average = 10

Date: March 22, 2012

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)? 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

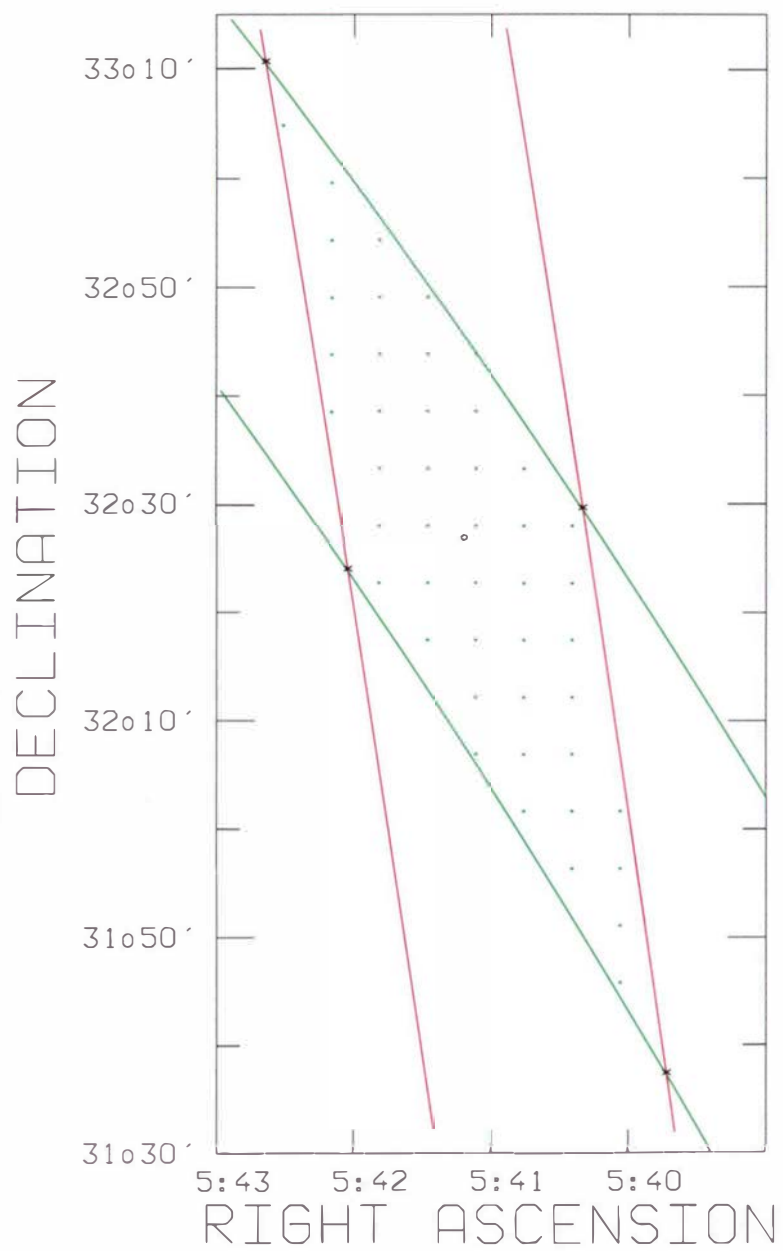
- ☒ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

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?

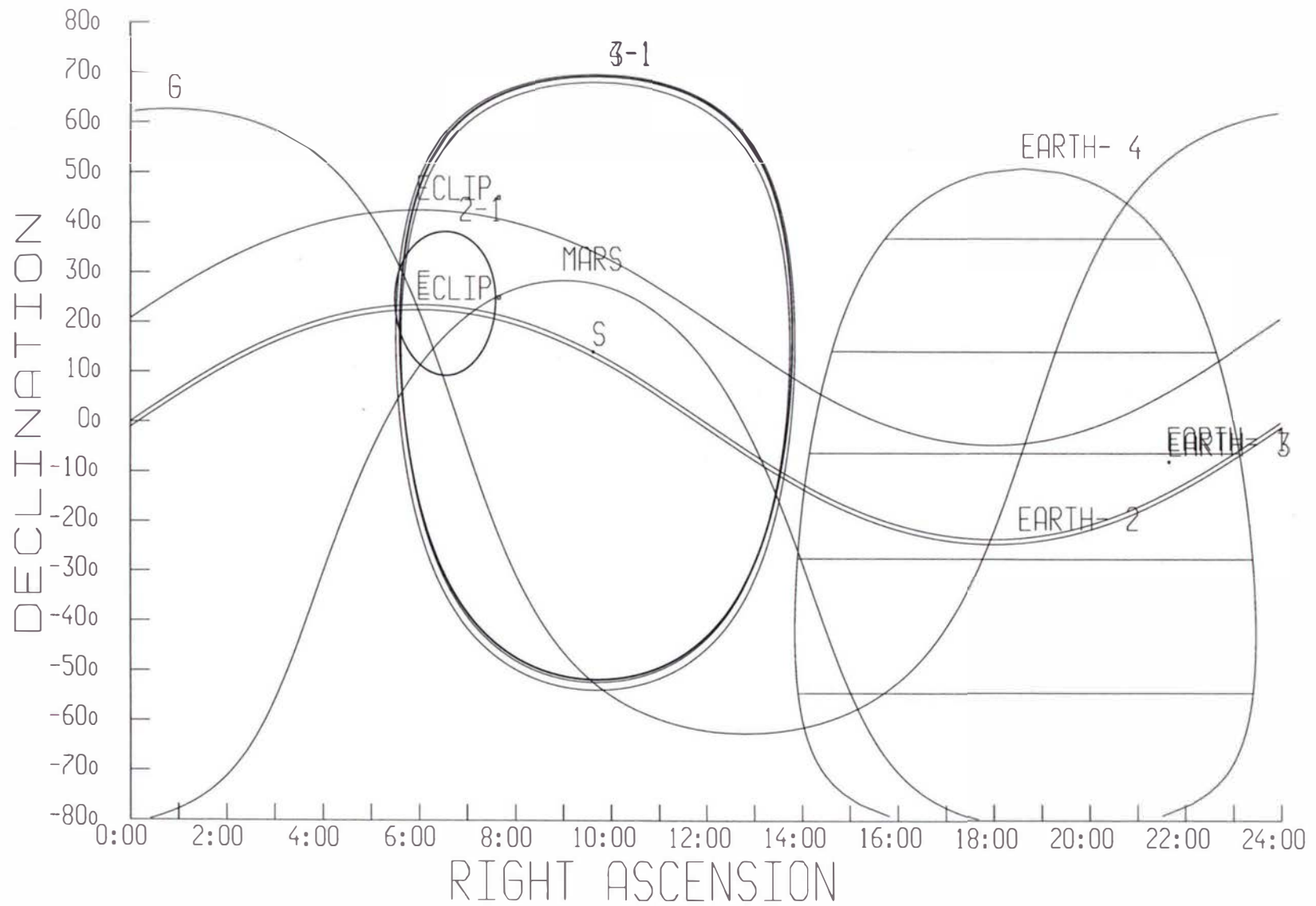


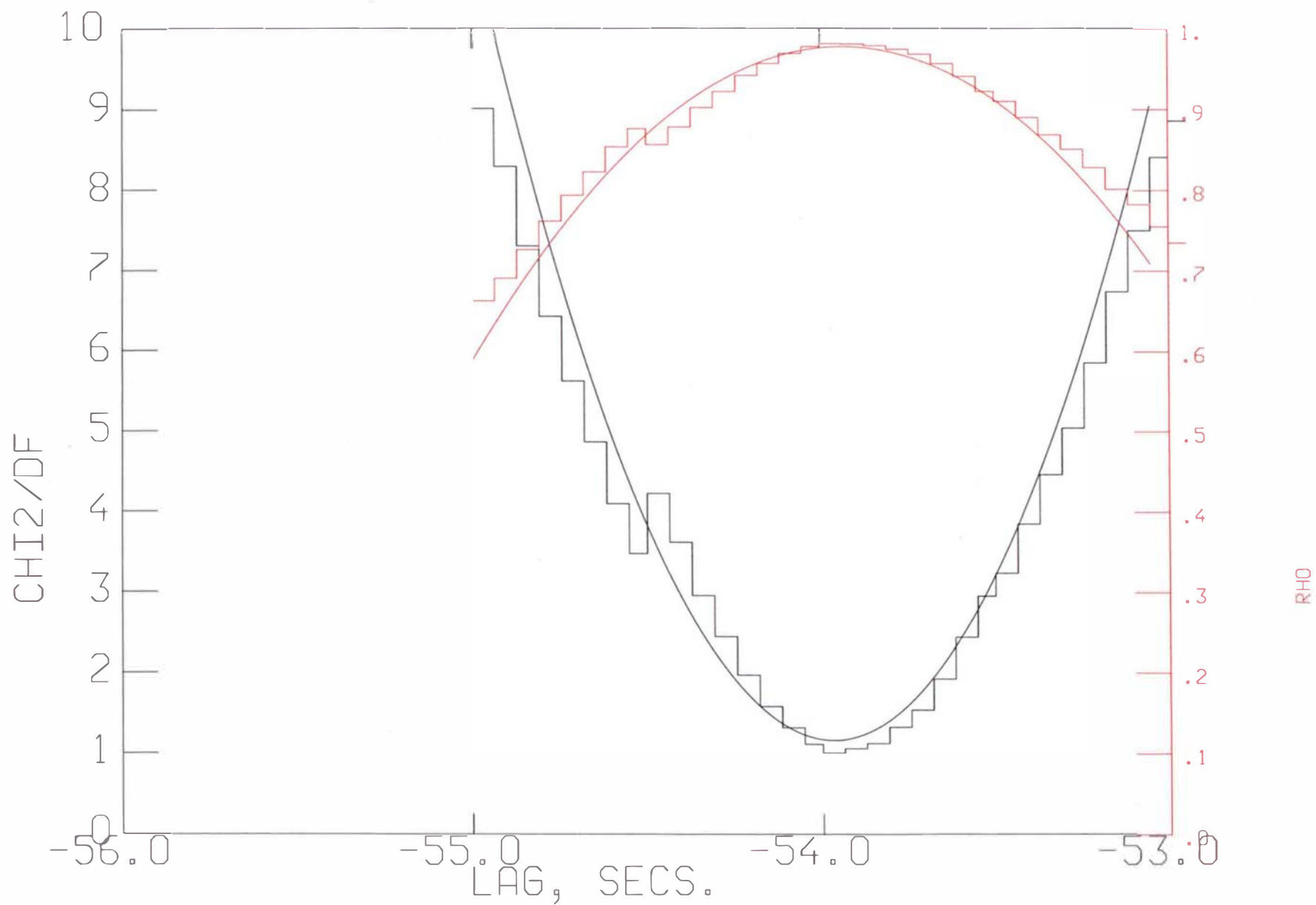


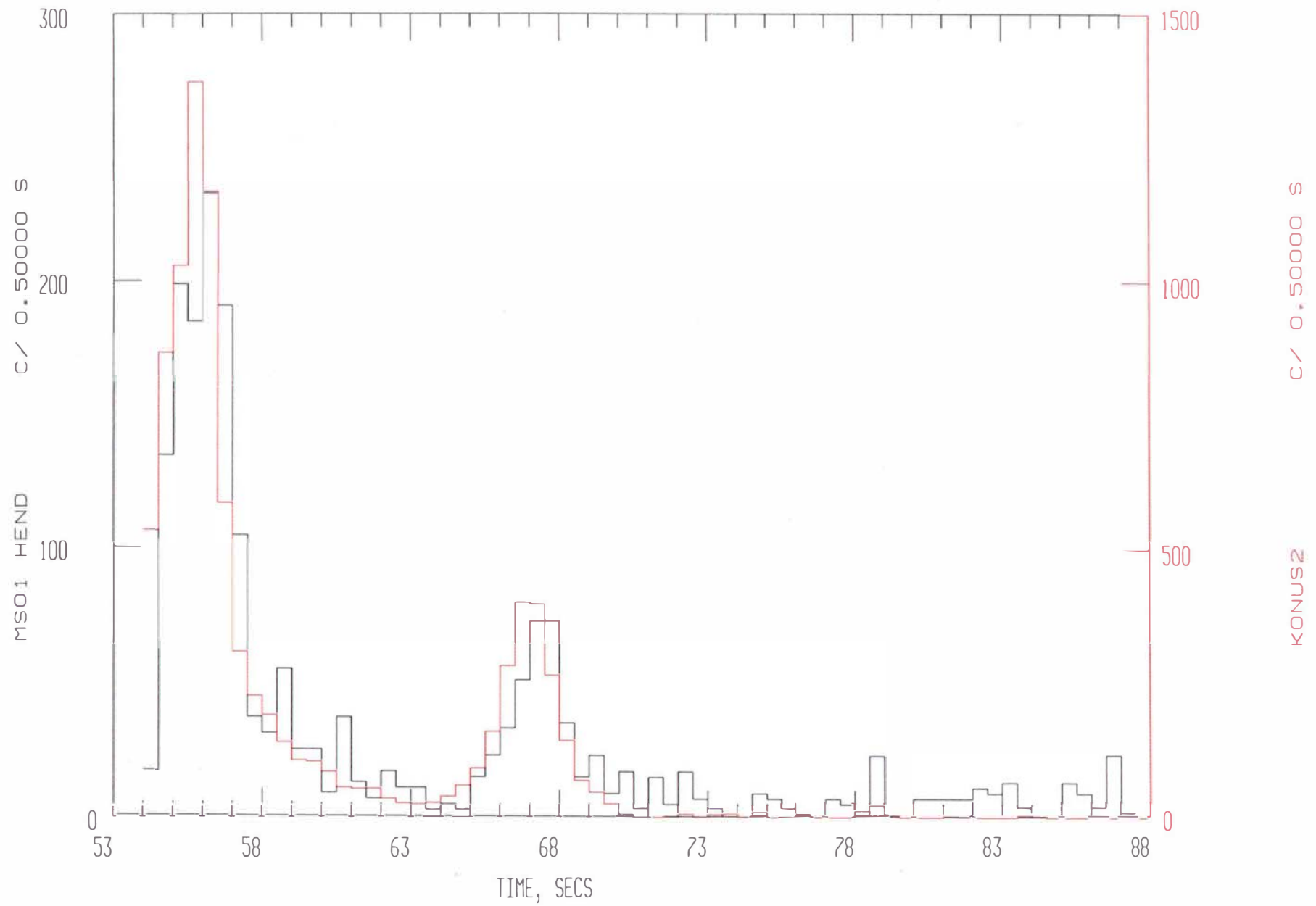
EVENT OF AUG 15, 2011 9:40

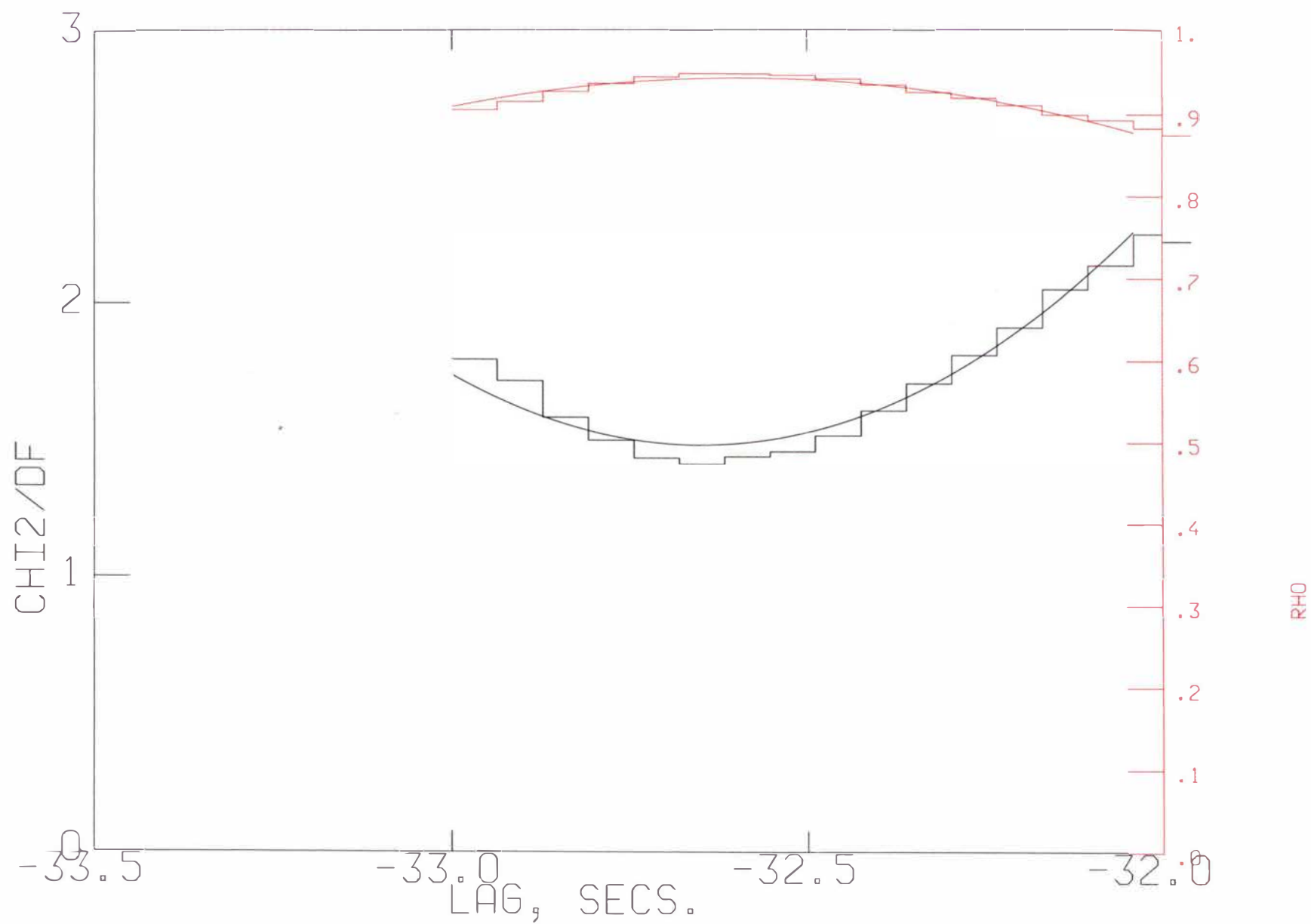
26/03/2013

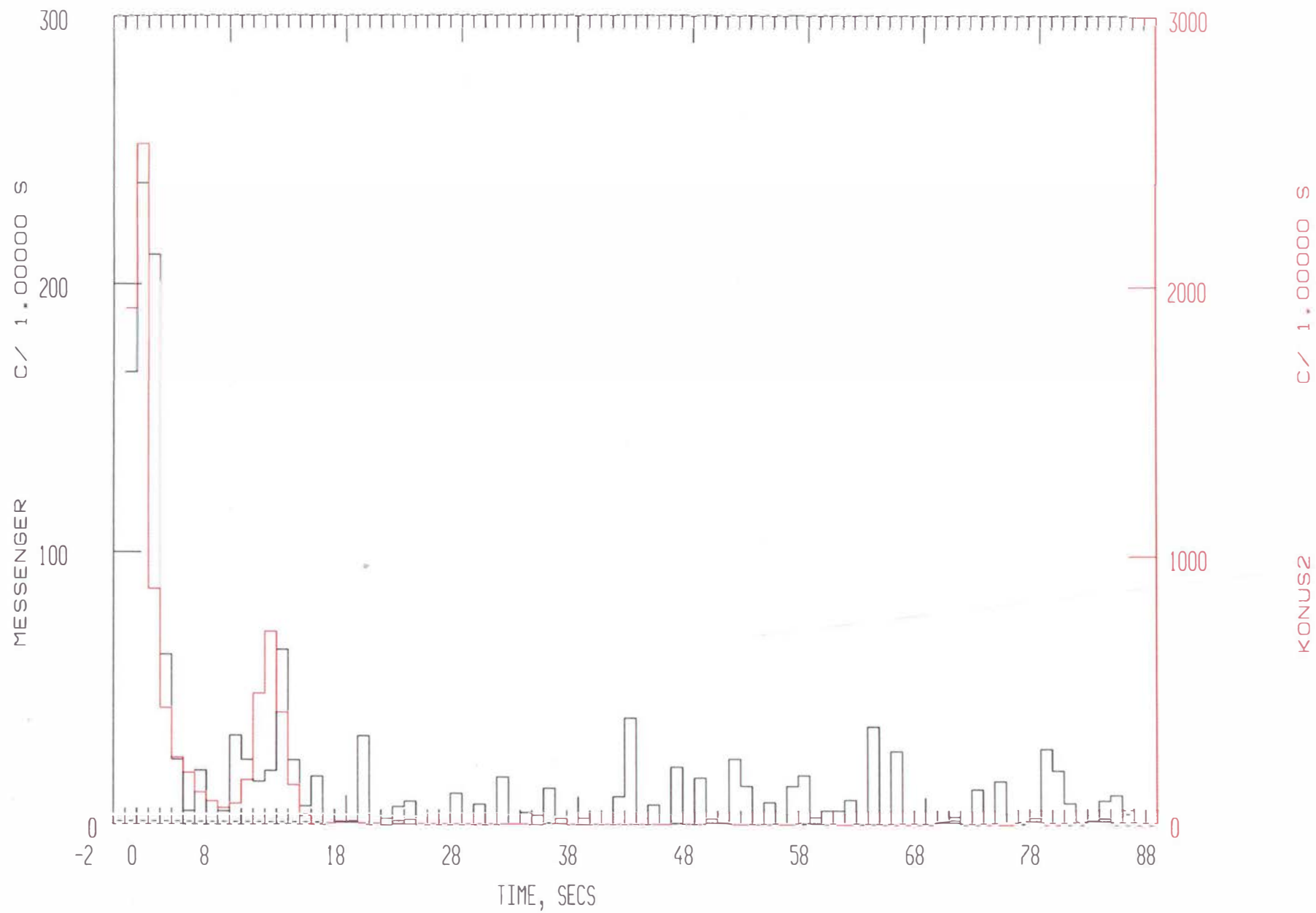
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS 2 MO 3 MESSENGER 4 SUZAKU

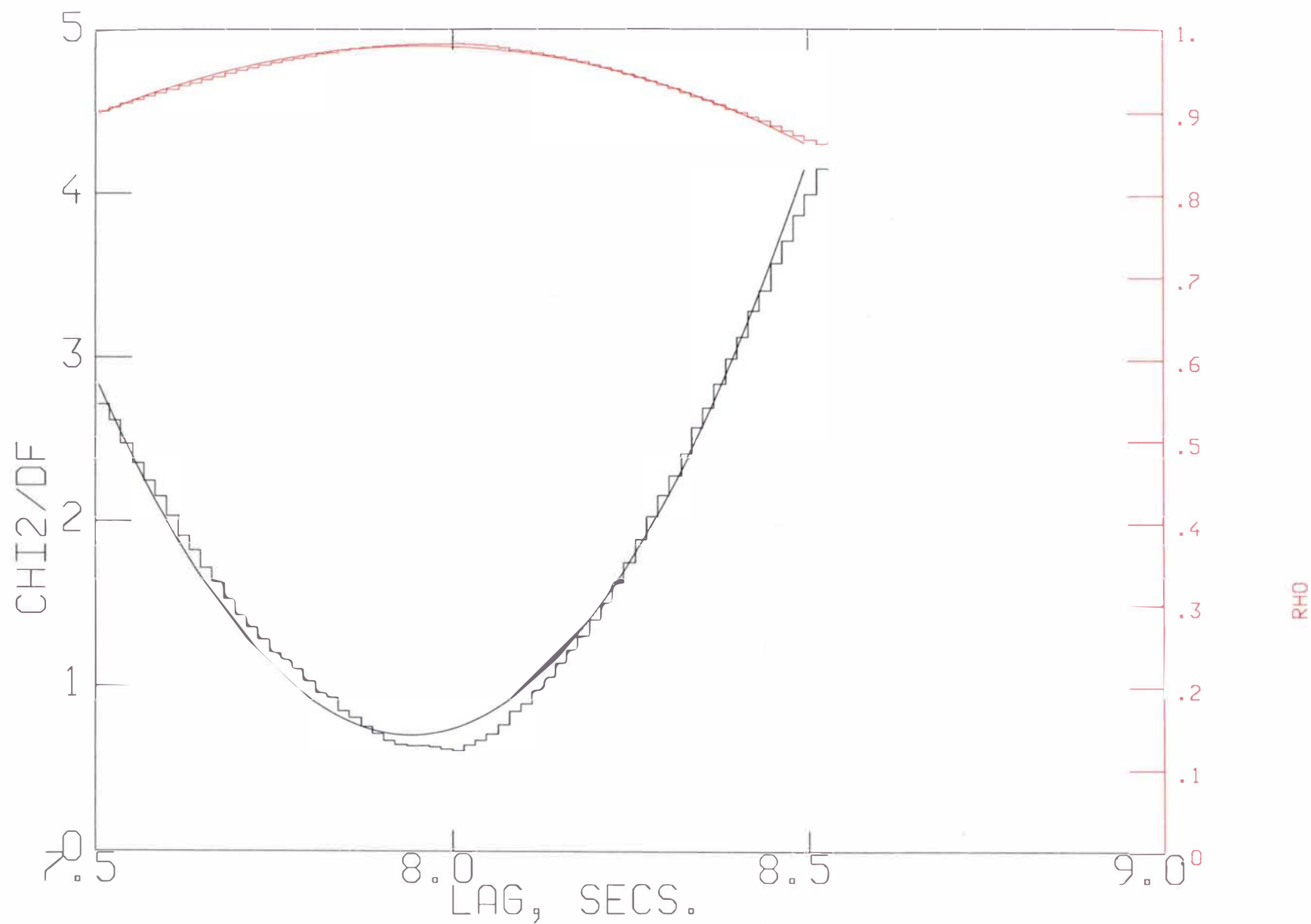


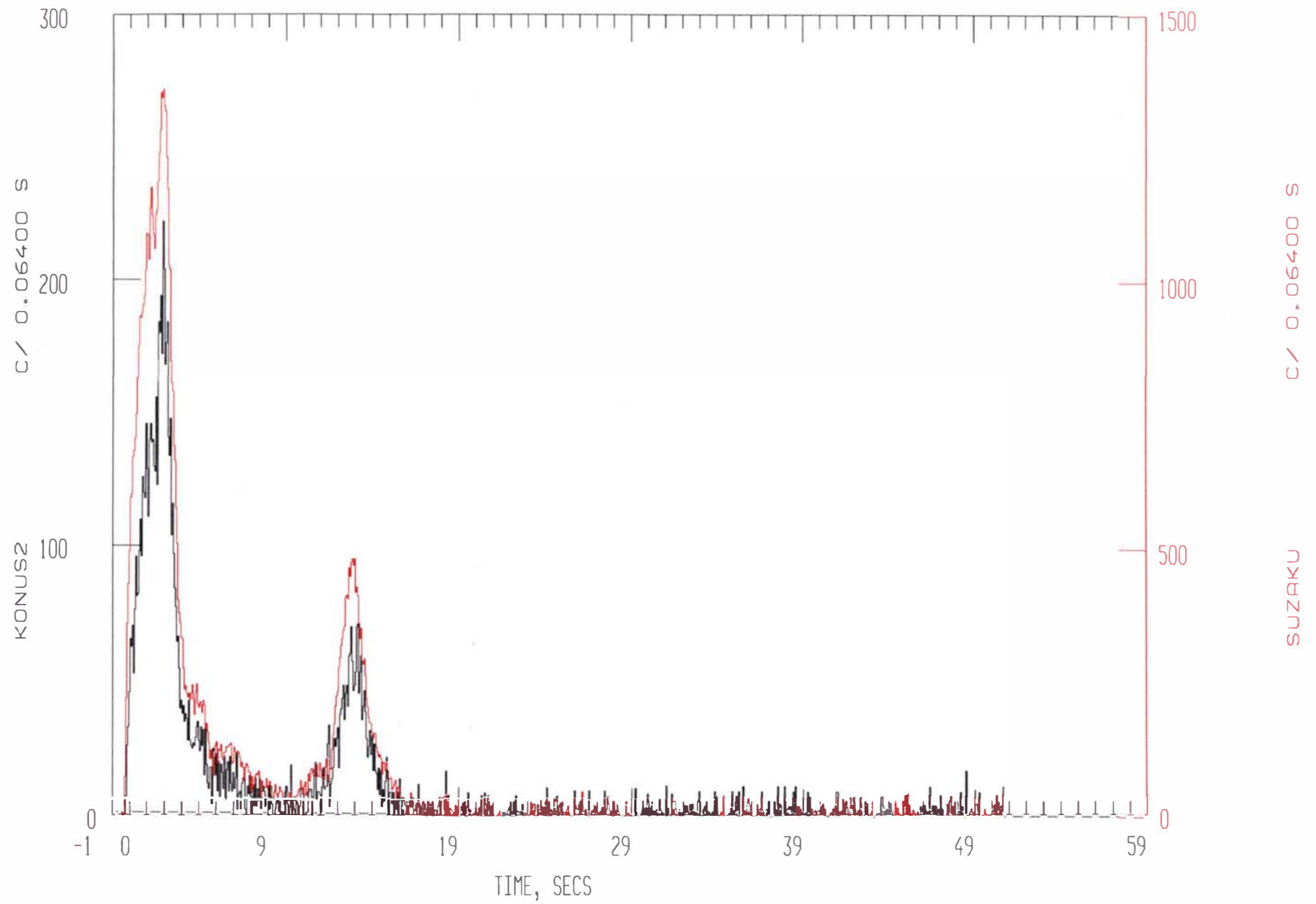












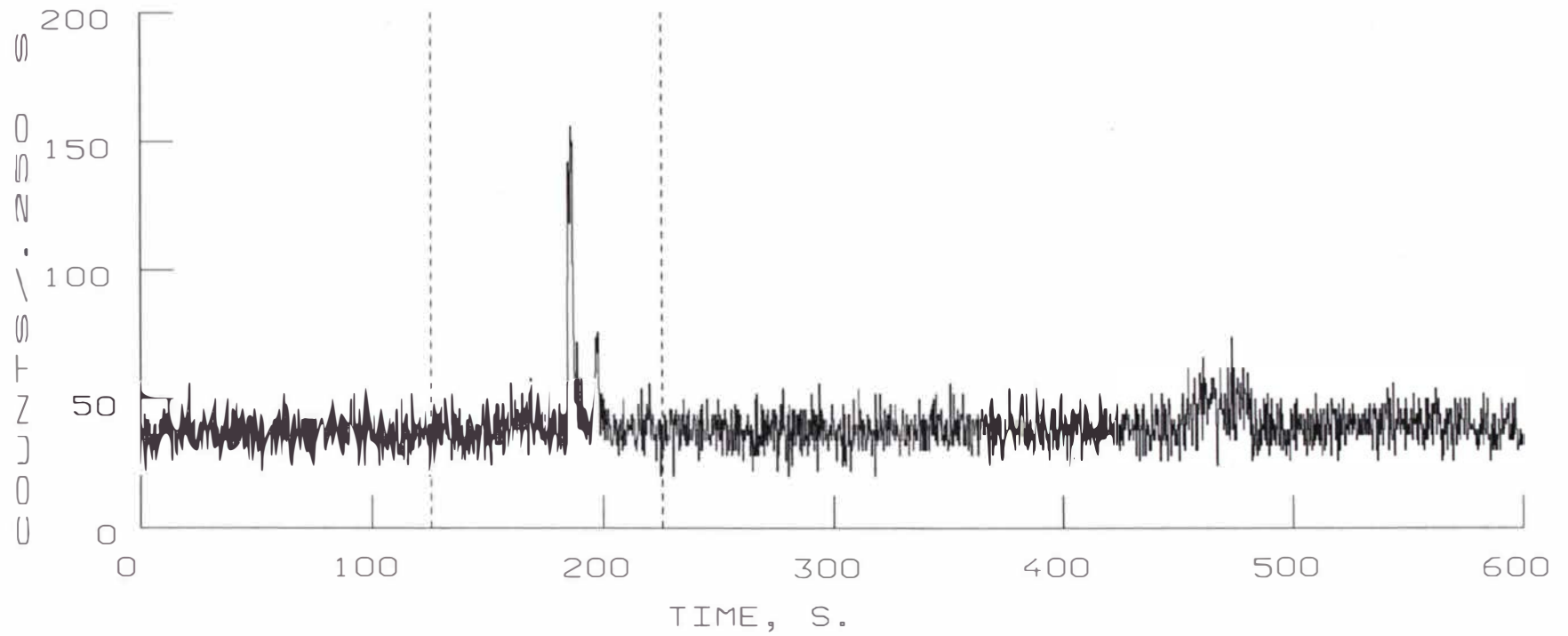
MS01 HEND

26/03/2013

15/08/2011 33673.430 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS

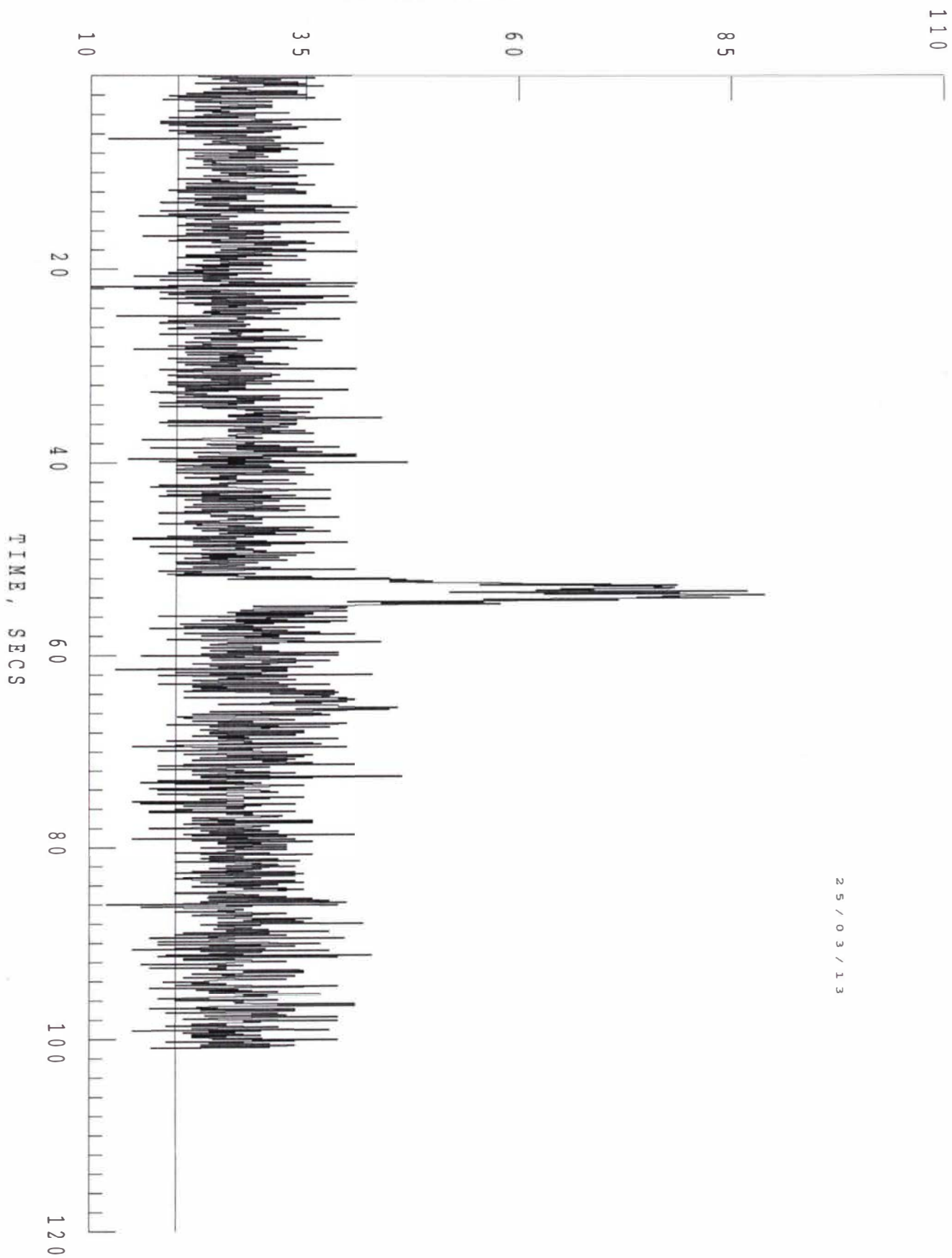


HESSI

15/08/11 34806.000 (KONUS_20110815_34857)

50 - 200 keV

COUNTS/0.064 S



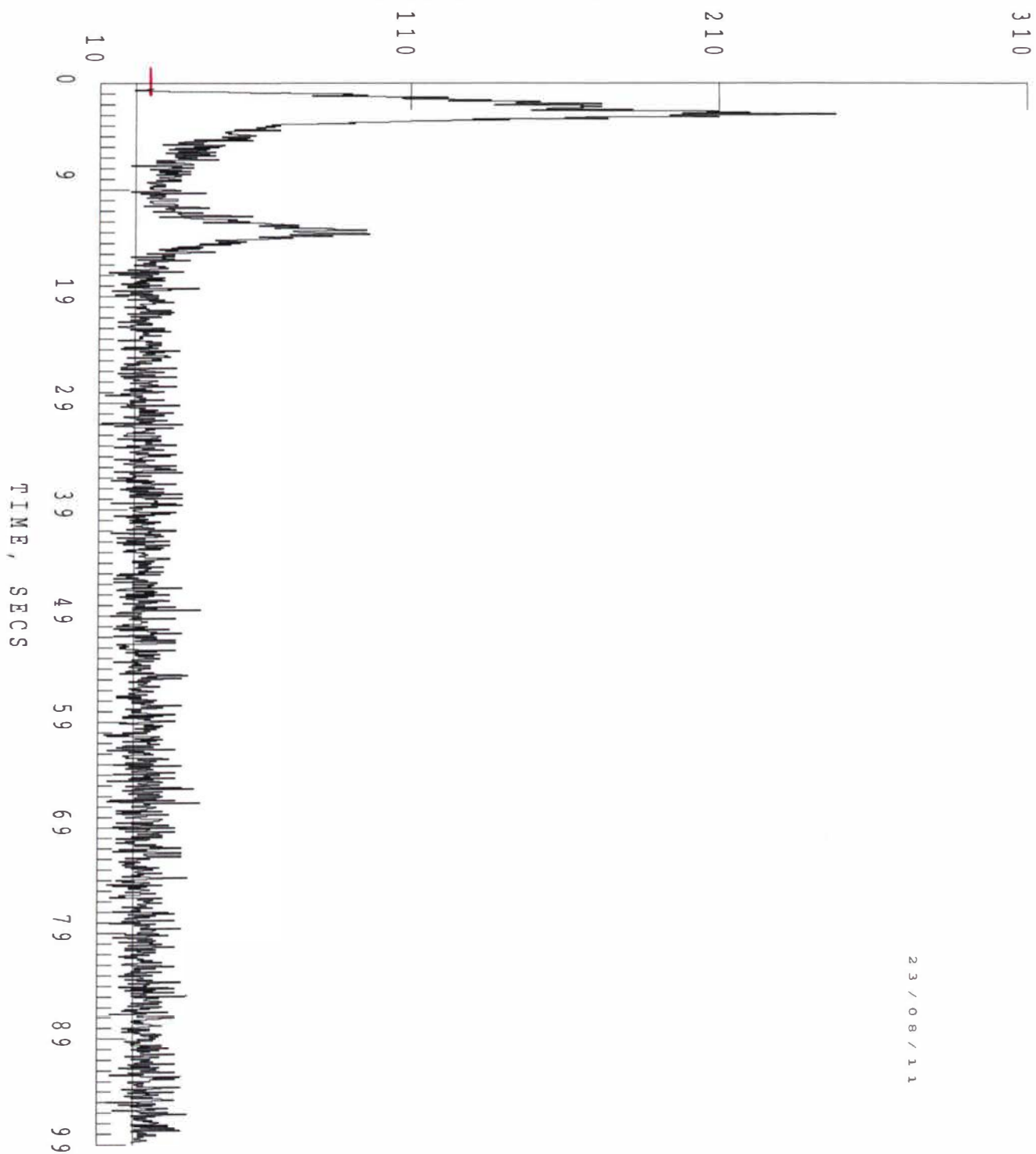
KONUS2

15/08/11

34855.971

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110815 34855

TRIGGER TIME: 15/08/11 DOY 227 Julian 2455789.90341 UT = 09.682 09:40:55 (34855.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

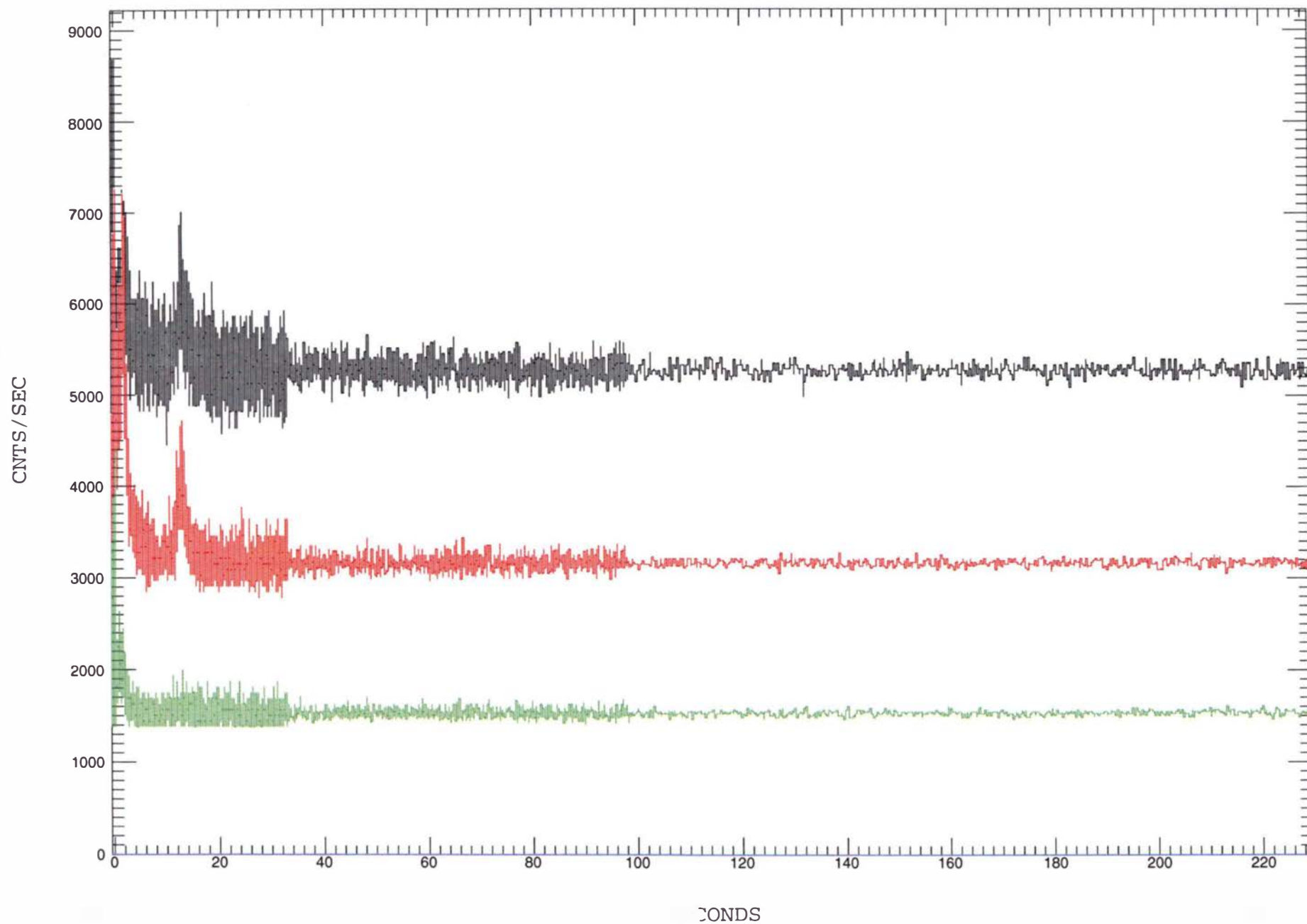
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



Subject: [lpn] BAT lightcurve for trigger at 110815_0940

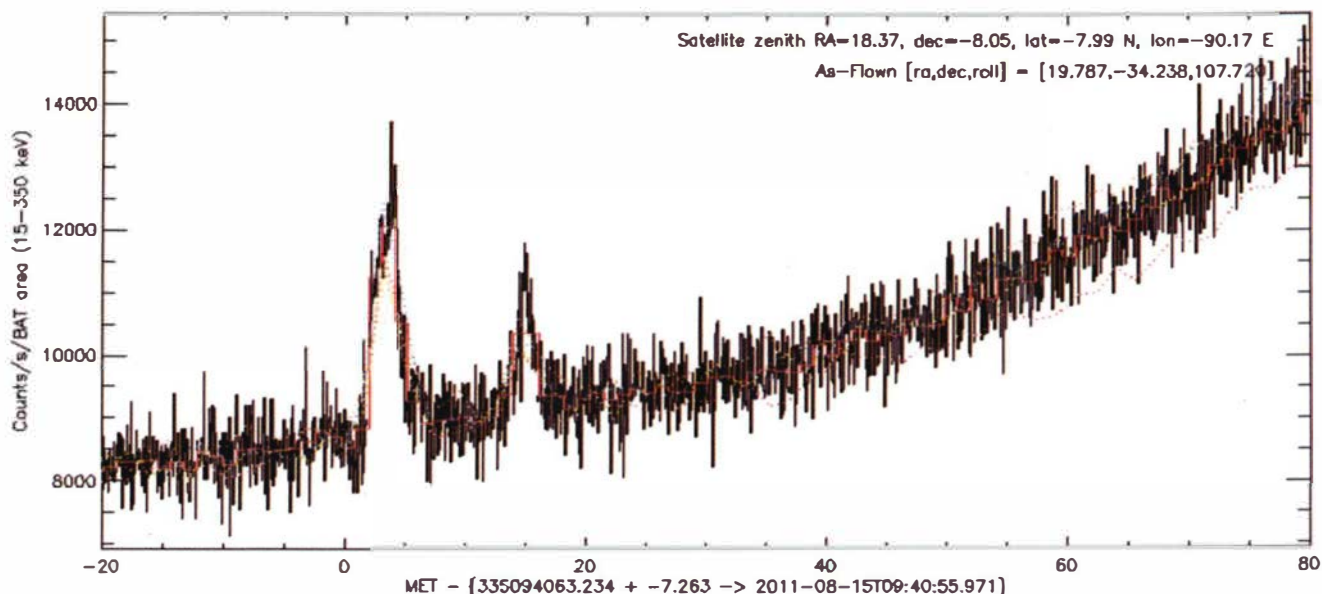
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 15 Aug 2011 11:48:42 -0600 (MDT)

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

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

/tmp/110815_0940.png



```
% /usr/local/bin/swinfo -o 335094065
Time(MET + UTC -> UT): 335094065.000 + -7.263 -> 2011-08-15T09:40:57.737
Swift Zenith(RA,dec): 18.49, -8.09
Swift Location(lon,lat,alt): -90.06 E, -8.03 N, 583 km
Obs Sequence Number: 00031789013
Obs Target Name: XMMSL1 J011907.5-341134
Obs Date and Times: 2011-08-15 09:34:54 - 09:40:52
Obs Pointing(ra,dec,roll): 19.787, -34.238, 107.72
```

```
% /usr/local/bin/swinfo -o 335094063.234
Time(MET + UTC -> UT): 335094063.234 + -7.263 -> 2011-08-15T09:40:55.971
Swift Zenith(RA,dec): 18.37, -8.05
Swift Location(lon,lat,alt): -90.17 E, -7.99 N, 583 km
Obs Sequence Number: 00031789013
Obs Target Name: XMMSL1 J011907.5-341134
Obs Date and Times: 2011-08-15 09:34:54 - 09:40:52
Obs Pointing(ra,dec,roll): 19.787, -34.238, 107.72
```

--
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>

/tmp/110815_0940_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110815_0940.png

/tmp/110815_0940.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

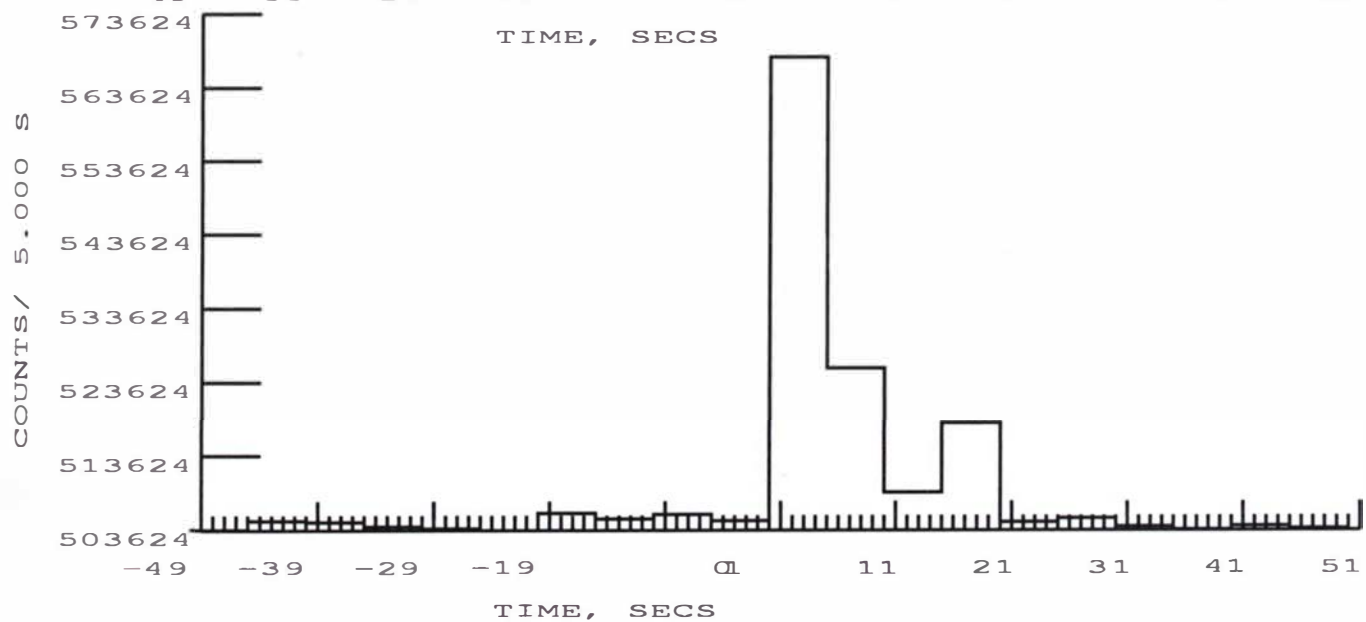
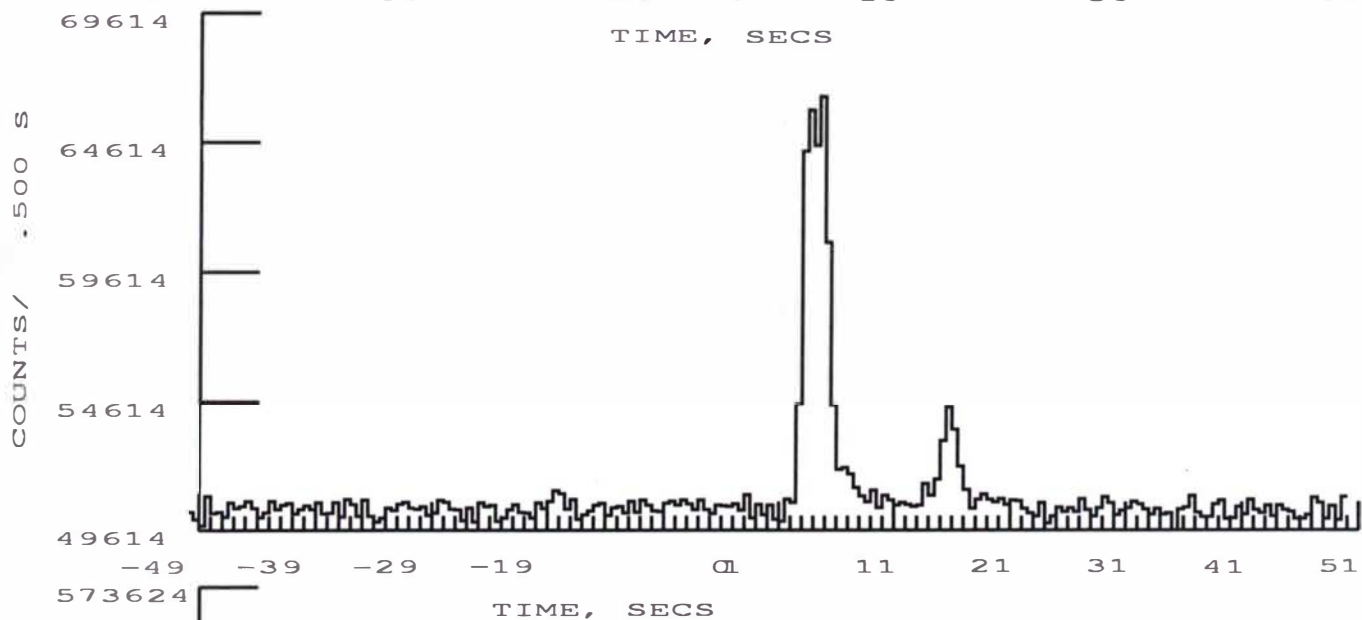
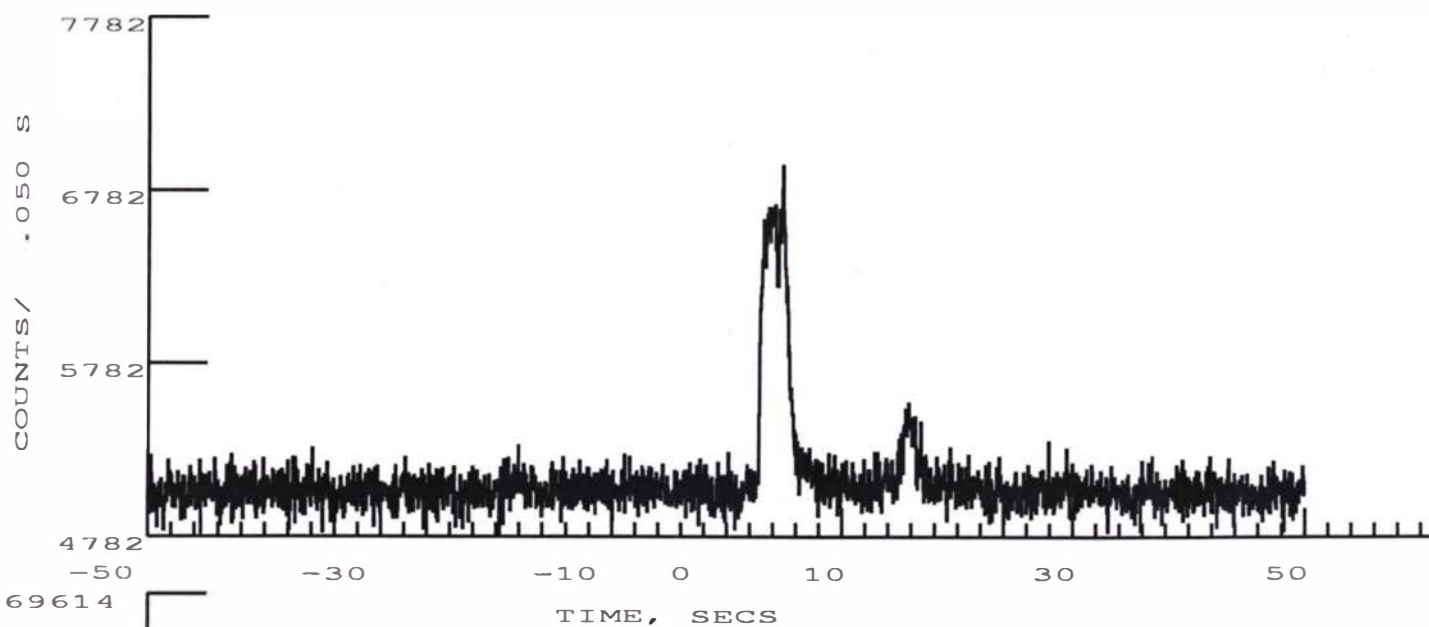
INTEGRAL

15/08/11

34855.000

09:40:55.0

20/01/14



08/08/11

MESSENGER

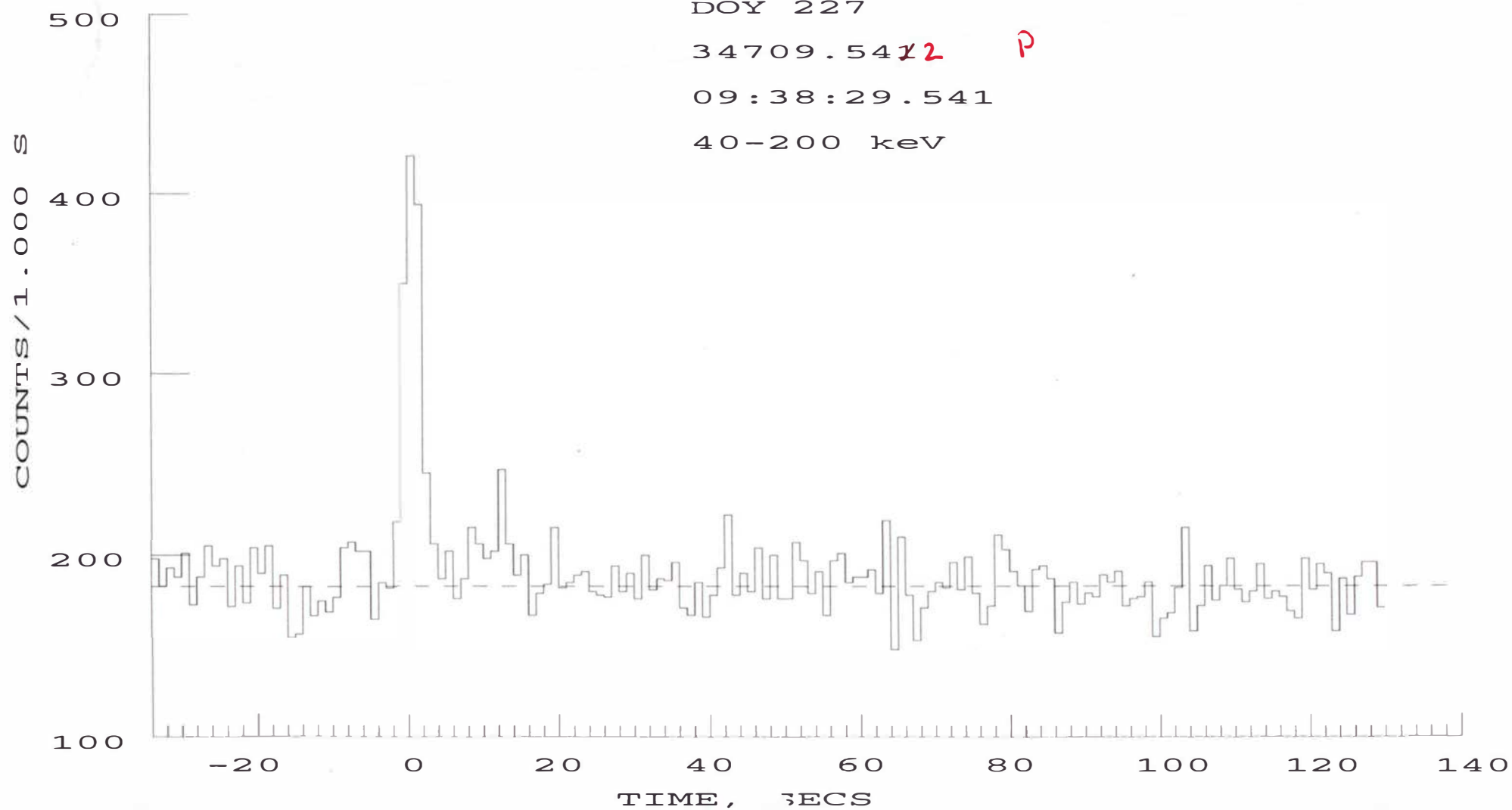
15/08/11

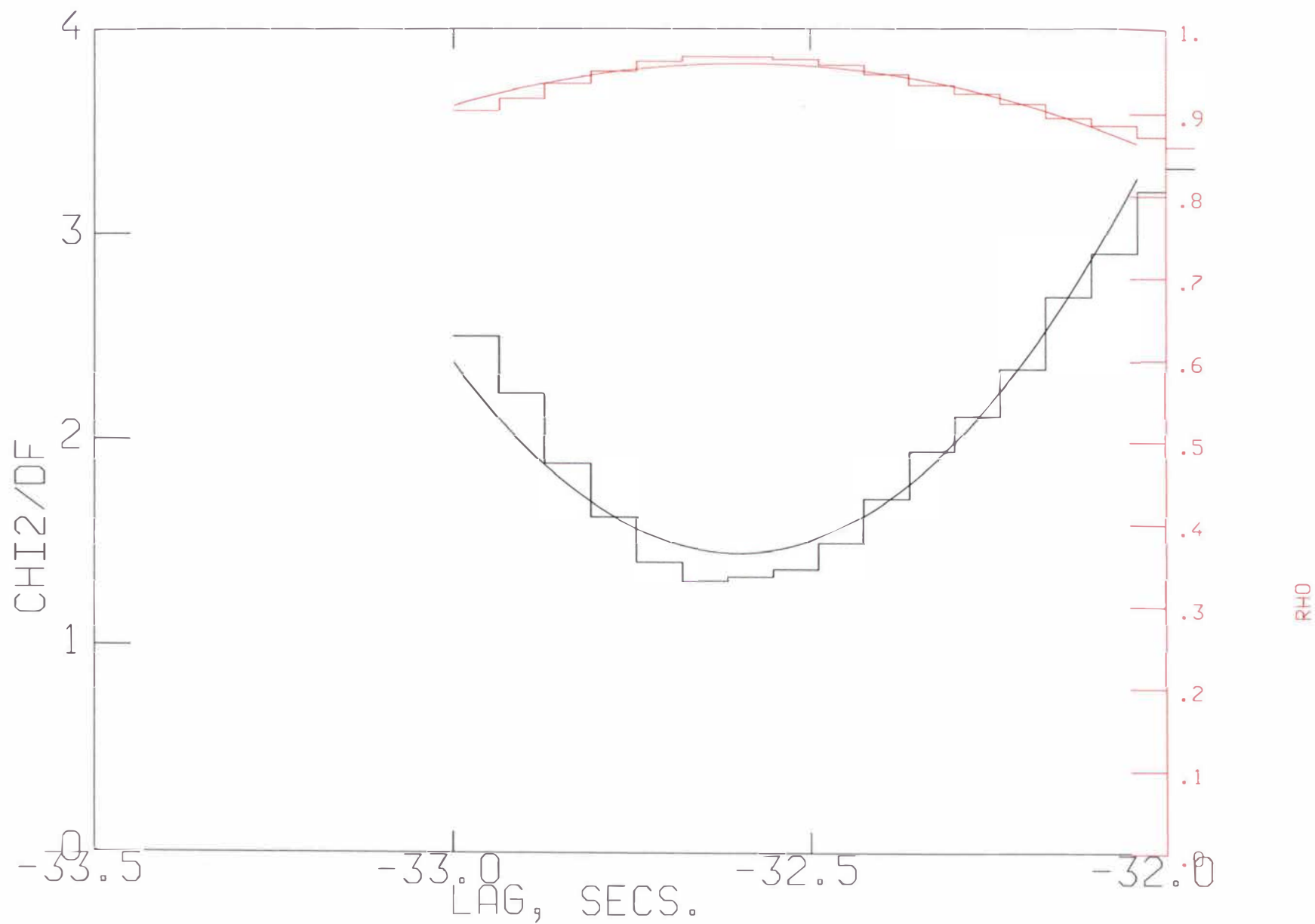
DOY 227

34709.5412 P

09:38:29.541

40-200 keV





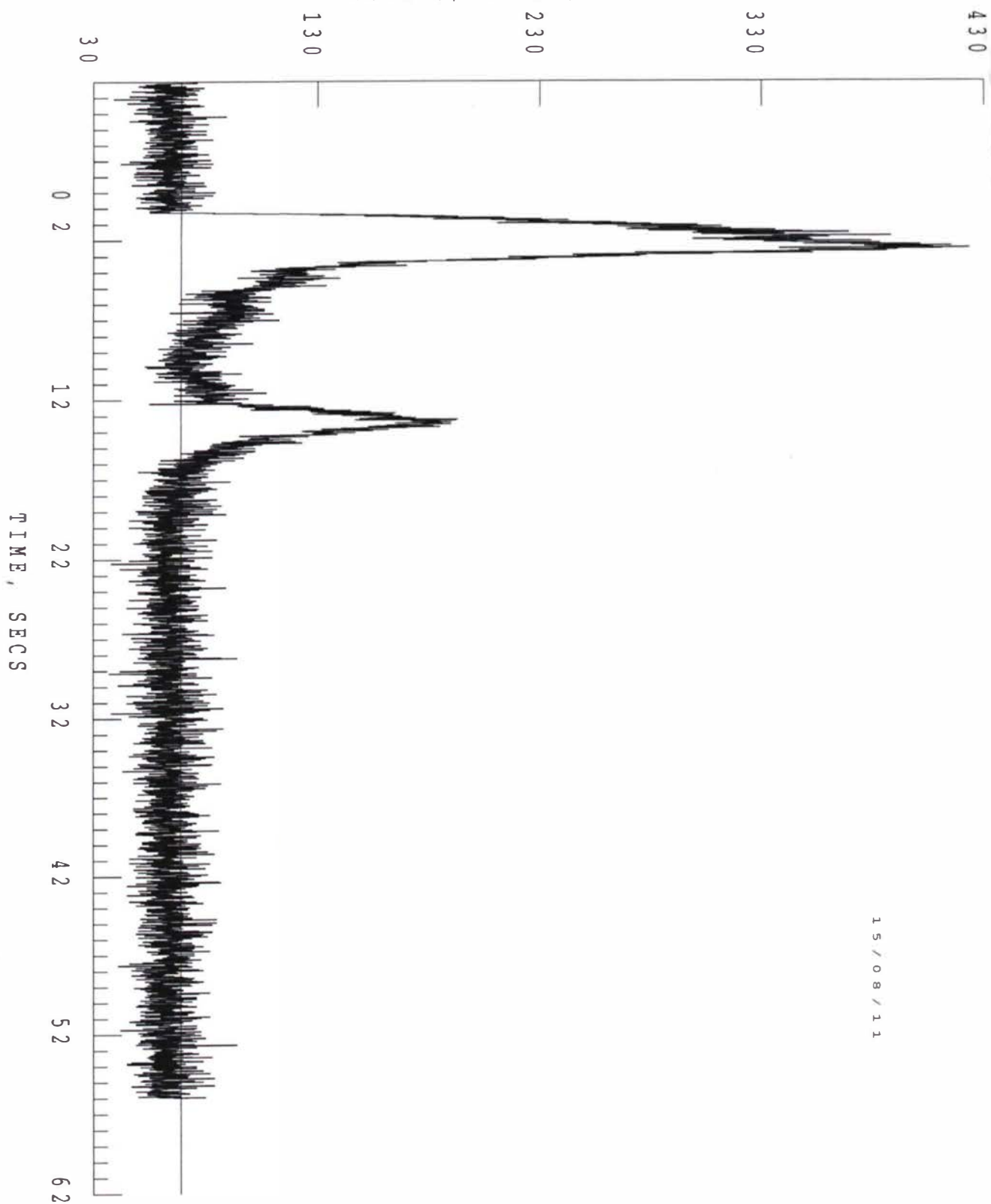
SUZAKU

15/08/11

34857.525

50 - 240 keV

COUNTS/0.016 S



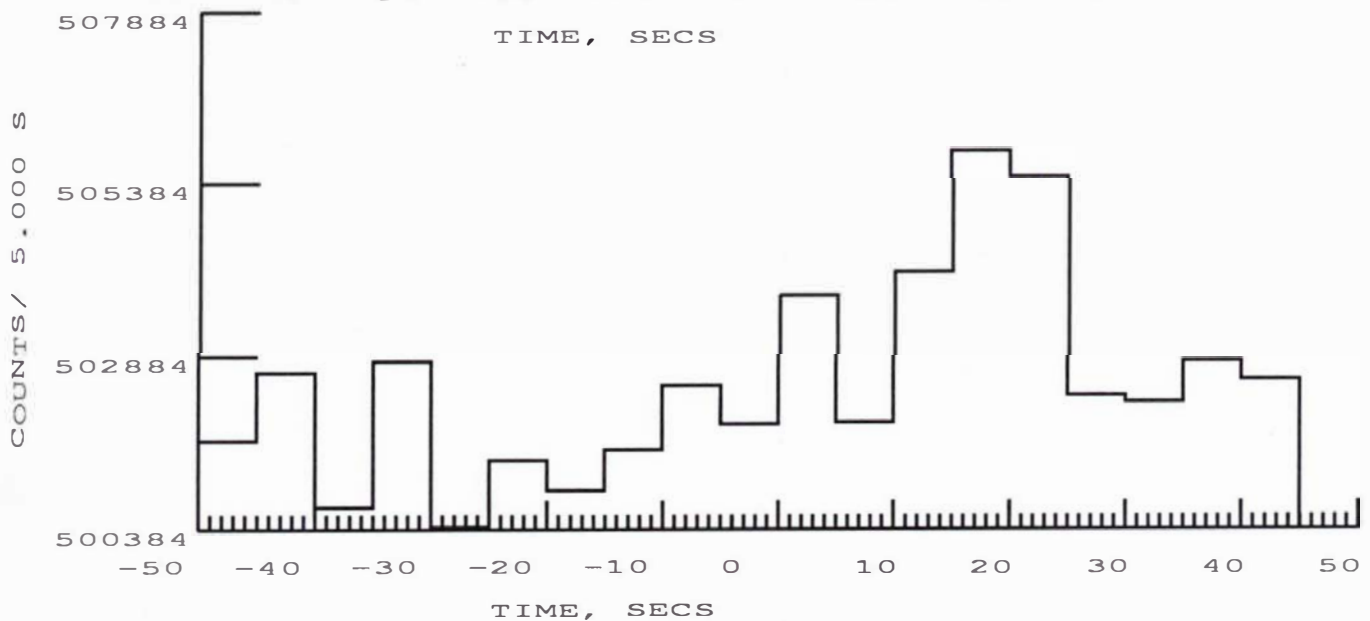
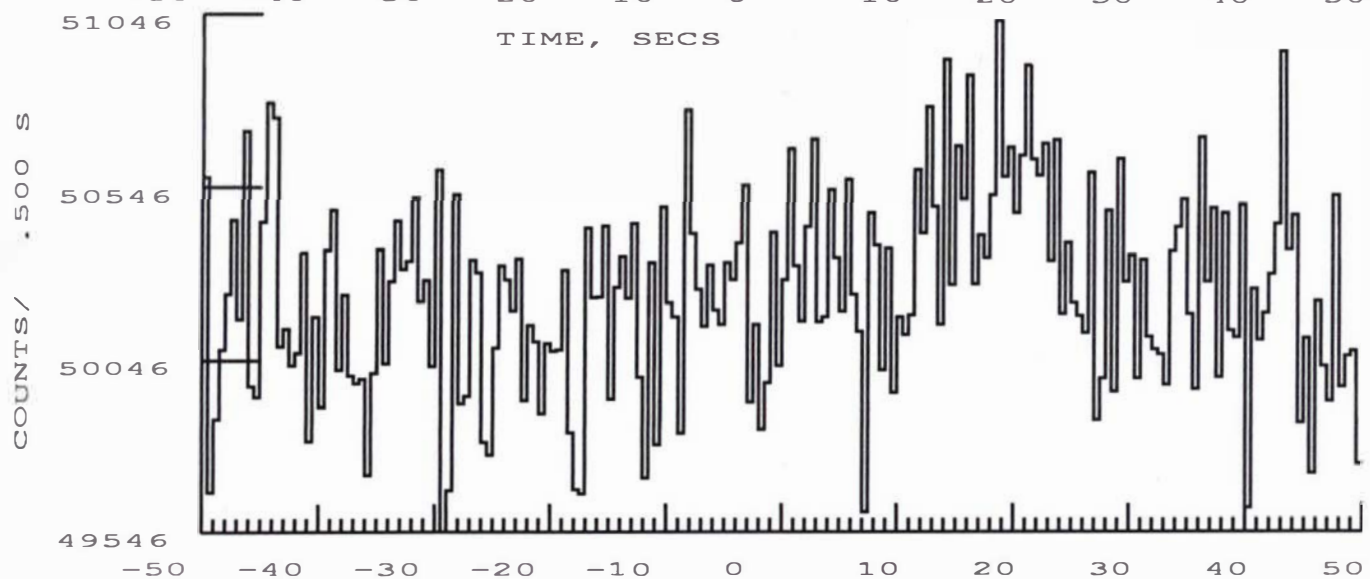
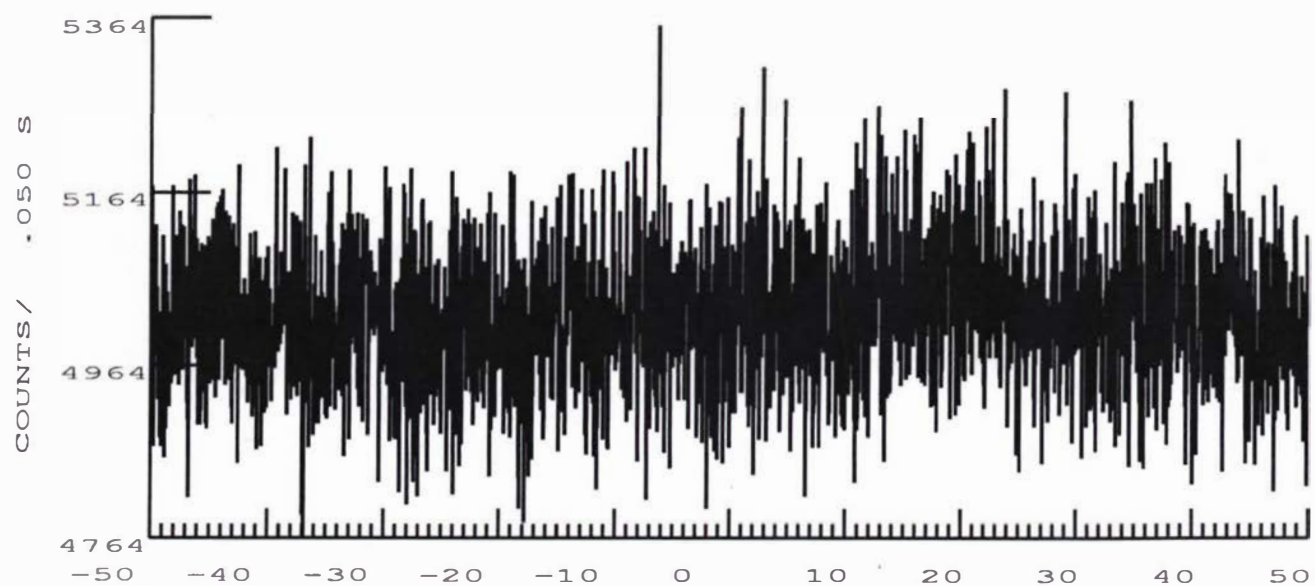
INTEGRAL

15/08/11

74949.000

20:49:09.0

20/01/14



From ipn-bounces@ssl.berkeley.edu Mon Aug 15 13:24:54 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Mon, 15 Aug 2011 19:40:56 +0200 (CEST)
From: Marco Feroci <marco.feroci@iasf-roma.inaf.it>
o: David Palmer <palmer@lanl.gov>
Cc: IPN <ipn@ssl.berkeley.edu>, "R. Marc Kippen" <mkippen@lanl.gov>,
Fermi GBM-BA <gbm-ba@mpe.mpg.de>, BAT TEAM <bat_team@bigbang.gsfc.nasa.gov>
Subject: Re: [Ipn] Possible burst 7 hours ago
X-Ucb-Scan-Signature: 7e3a77995465ee484360ed2a2969a121c1602d29
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report=''
X-Ucb-Notice: This message has been processed by a spam tagging system.

Hi David,

this bright burst triggered SuperAGILE from outside its field of view
on 15/08/11 at 09:40:56 UT.

Cheers,
Marco
(Ettore is on travel)

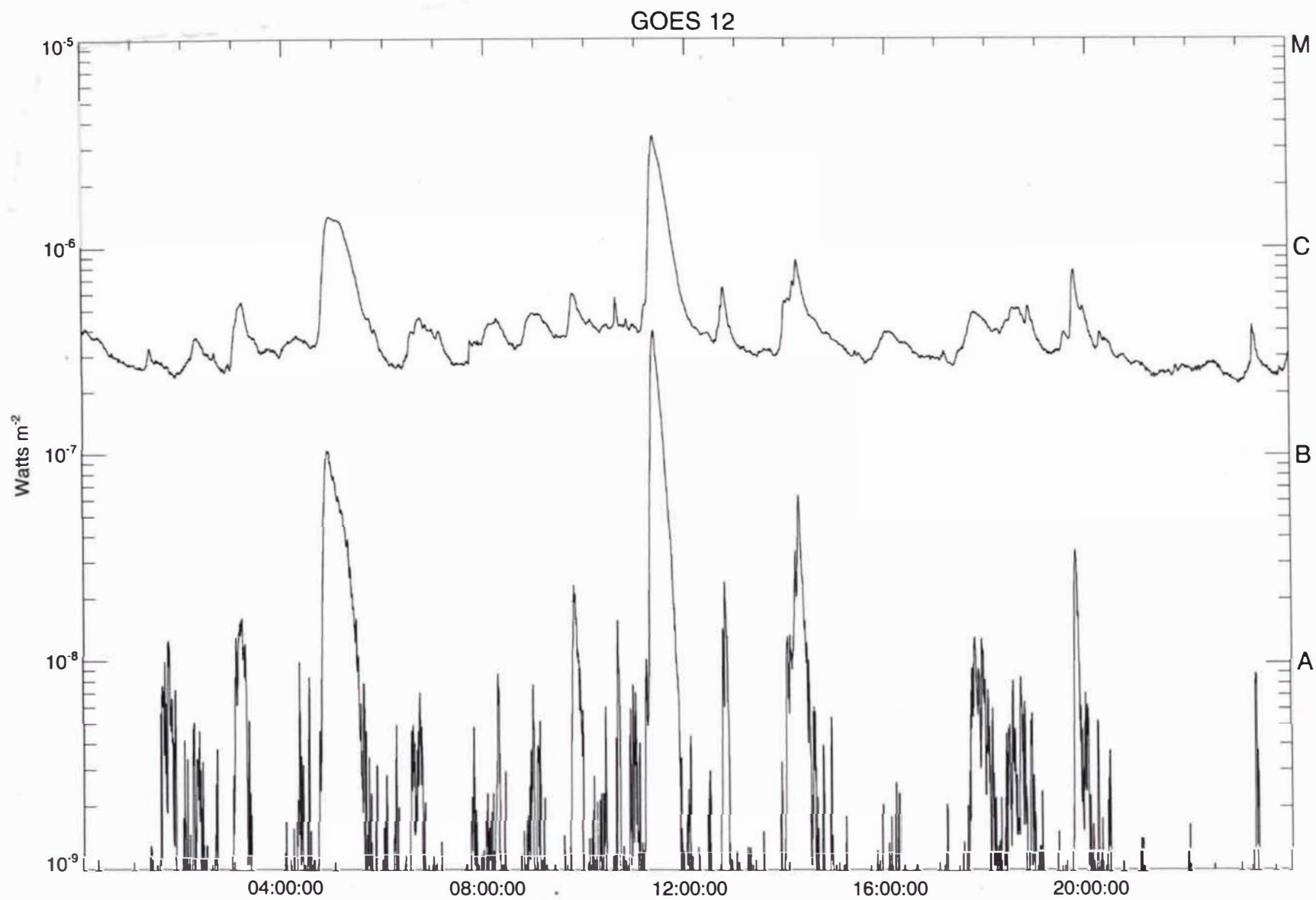
On Mon, 15 Aug 2011, David Palmer wrote:

> Possible GRB at 2011-08-15T09:40:57
>
> BAT was in a slew and approaching the SAA (although rates were only mildly ele
>
> No event-by-event was captured.
>

Marco Feroci

IASF - Istituto di Astrofisica Spaziale e Fisica Cosmica
INAF - Istituto Nazionale di Astrofisica
c/o C.N.R. - Area di Ricerca di Roma - Tor Vergata
Phone: +39-06-4548-8099 Via Fosso del Cavaliere 100, Roma, I-00133 ITALY
Fax : +39-06-4548-8188 E-mail: Marco.Feroci@iasf-roma.inaf.it

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



Data Start: 11/08/15, 0000:09

Plot created: 11/08/18, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

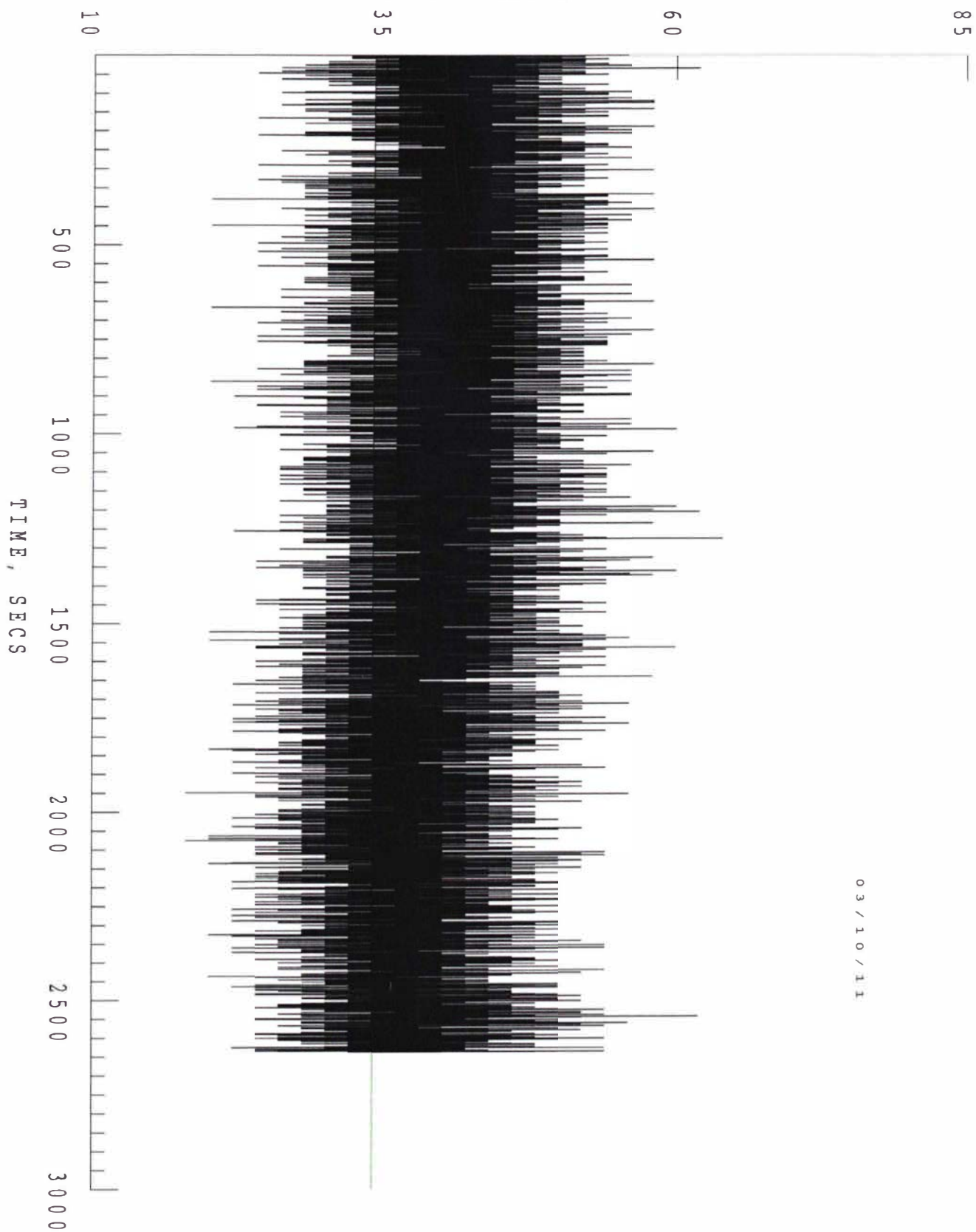
MS01

15/08/11

73632.745

50 - 3000 keV

COUNTS/0.250 S

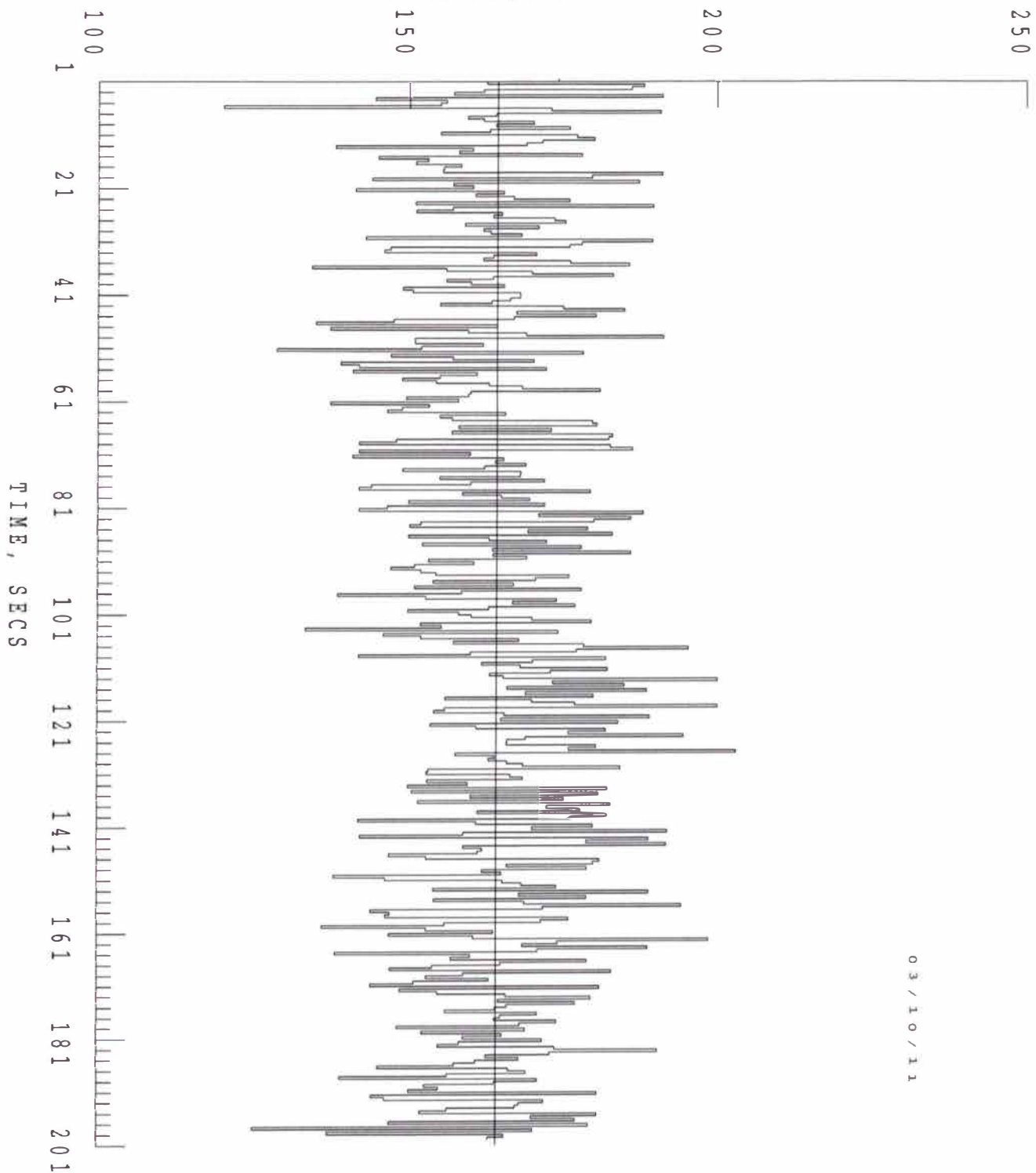


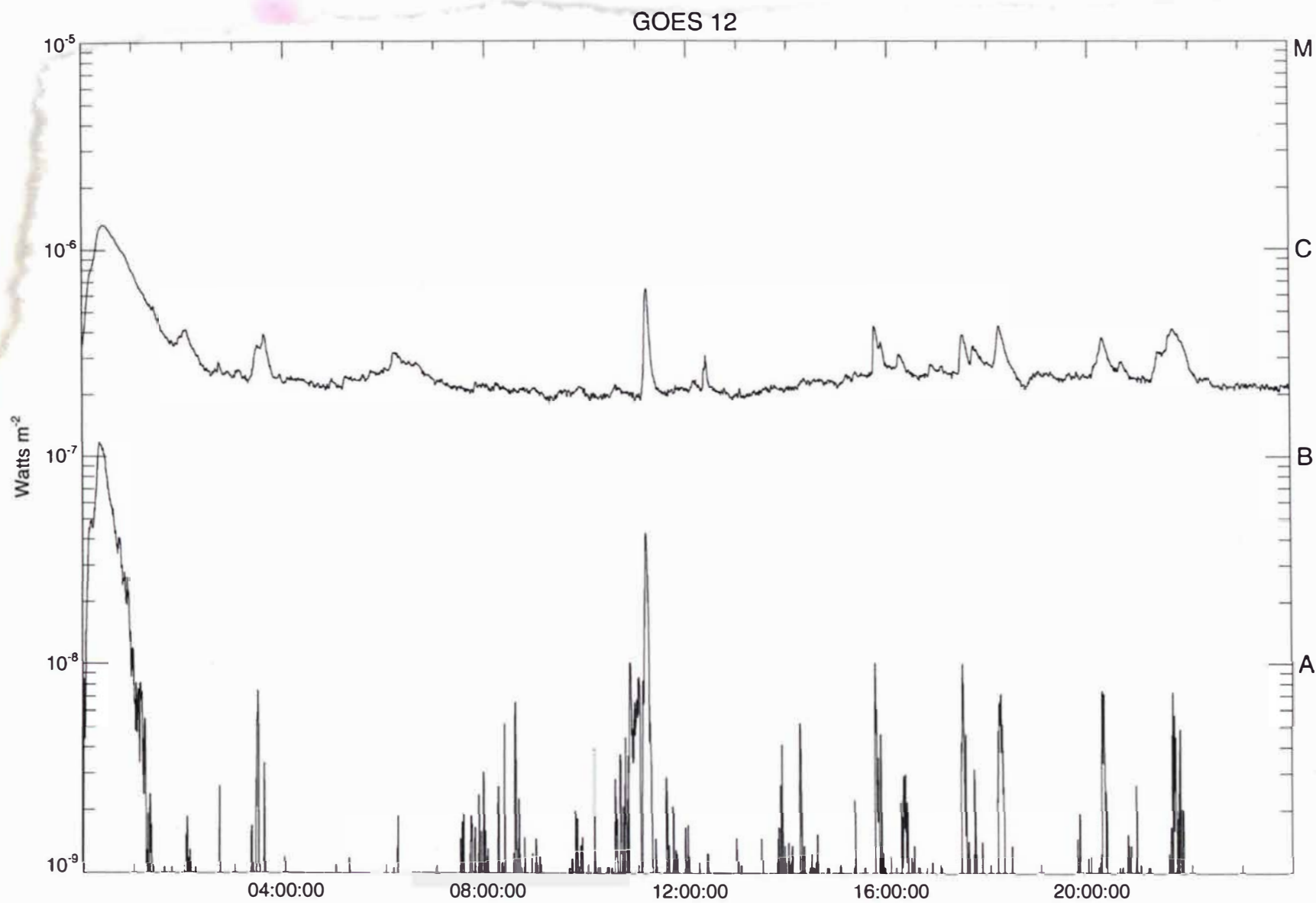
HESSI

15/08/11 74849.000 (konus_ri_20110815_74949)

25- 150 keV

COUNTS/0.500 S





Data Start: 11/08/16, 0000:09

Plot created: 11/08/19, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: _____

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?

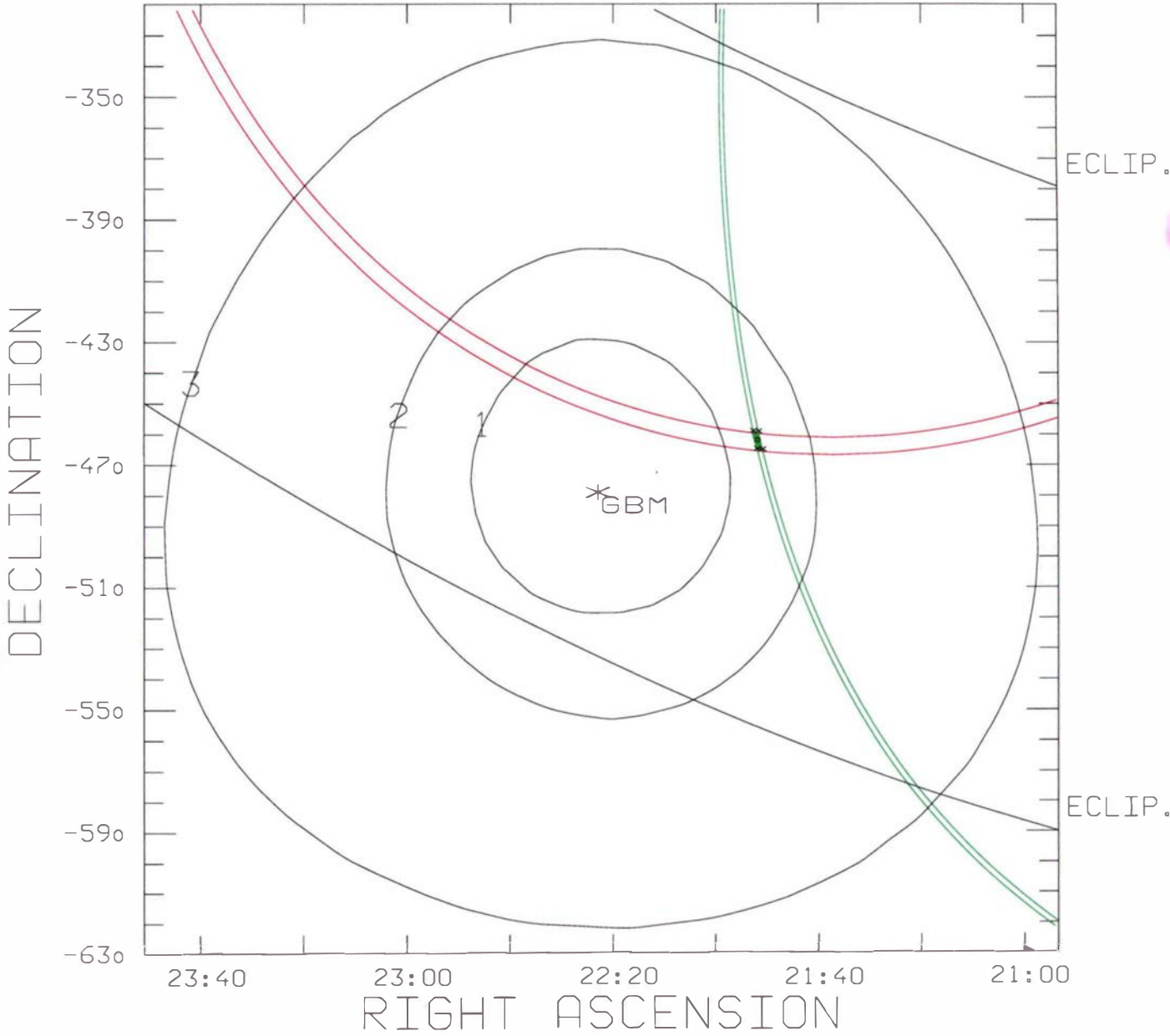
6. For 3 or More Spacecraft events

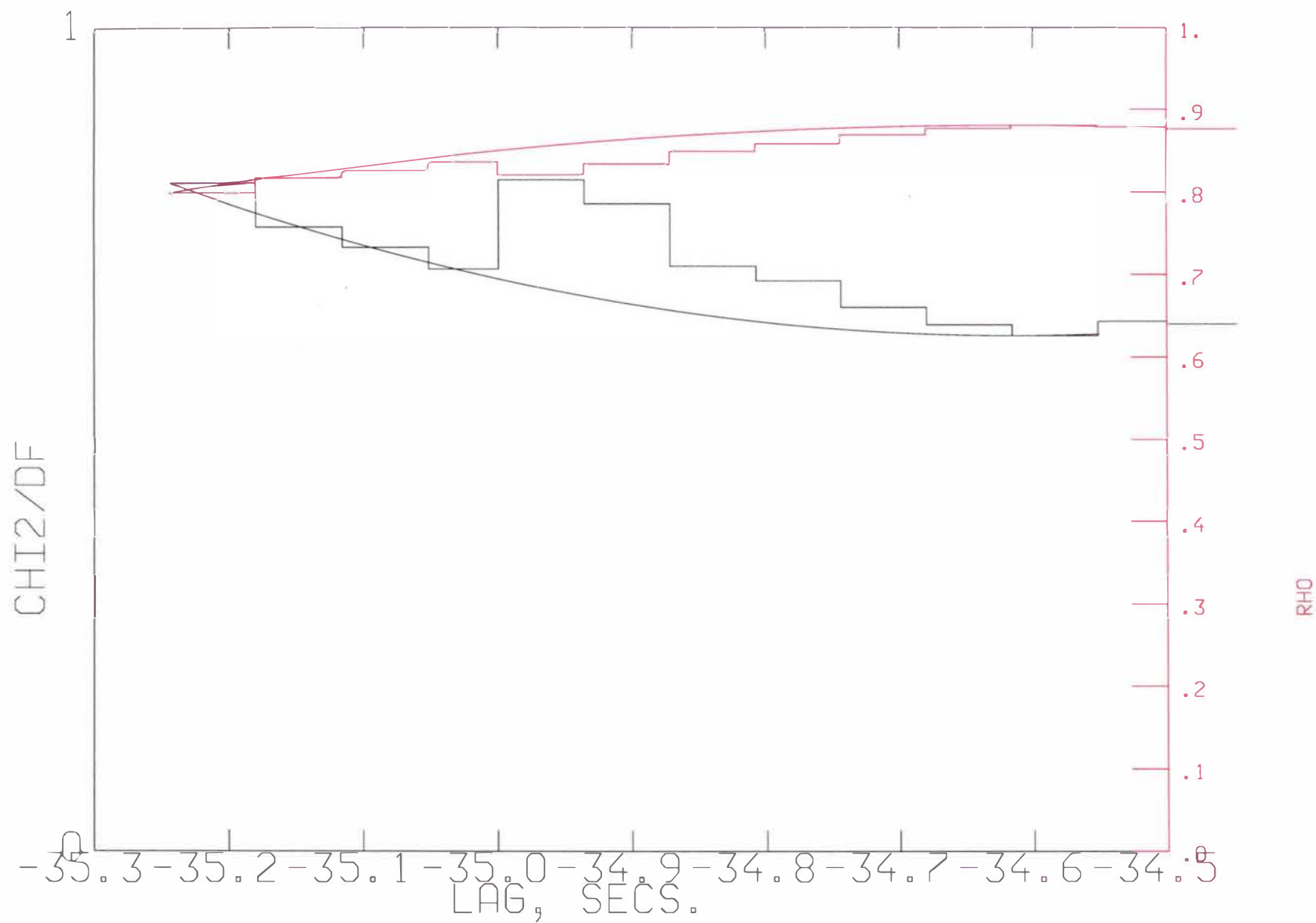
- ☐ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

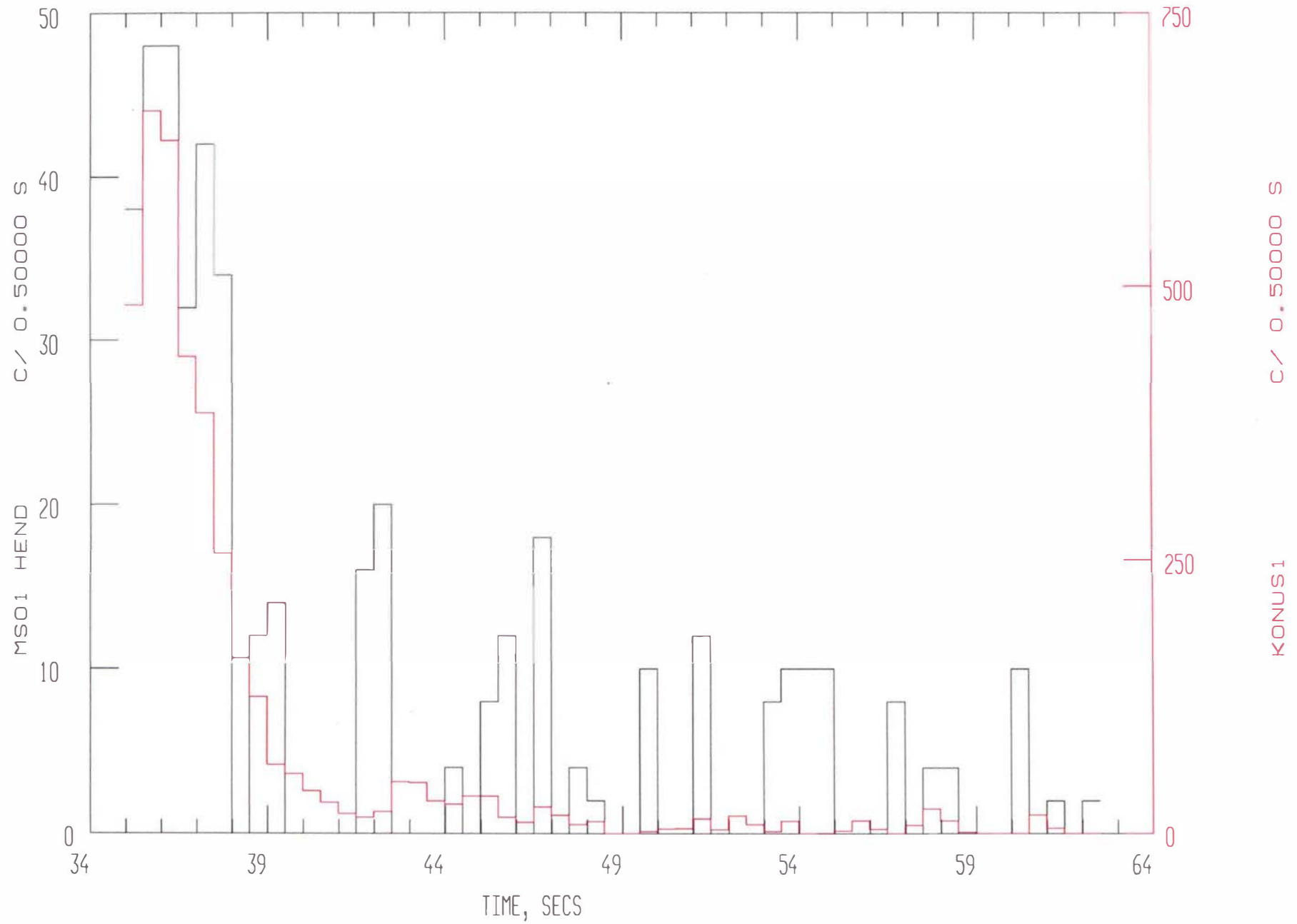
7. For INTEGRAL events

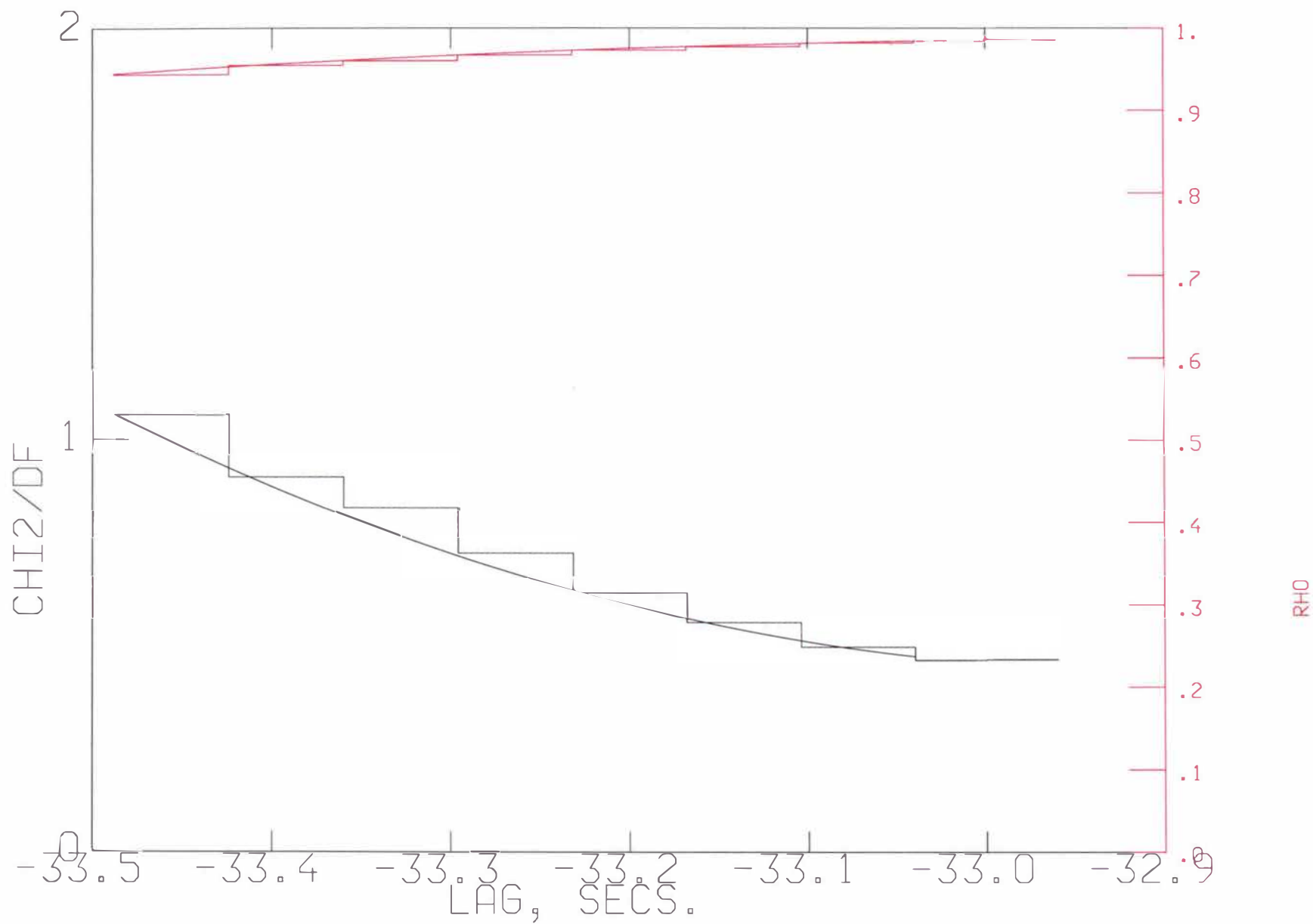
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

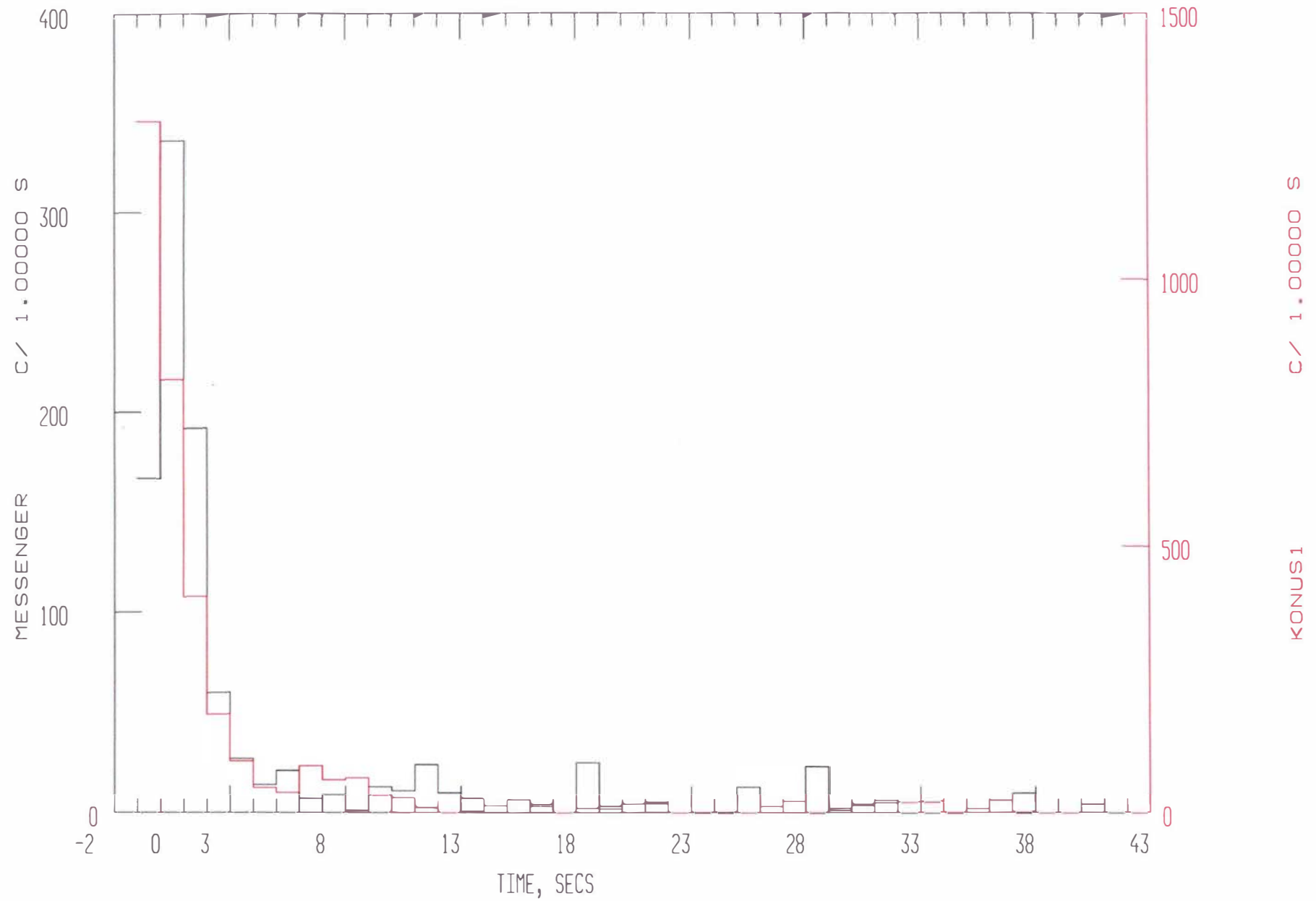
-
- ☒ ACCESS and MBL4 databases updated, with identical times?











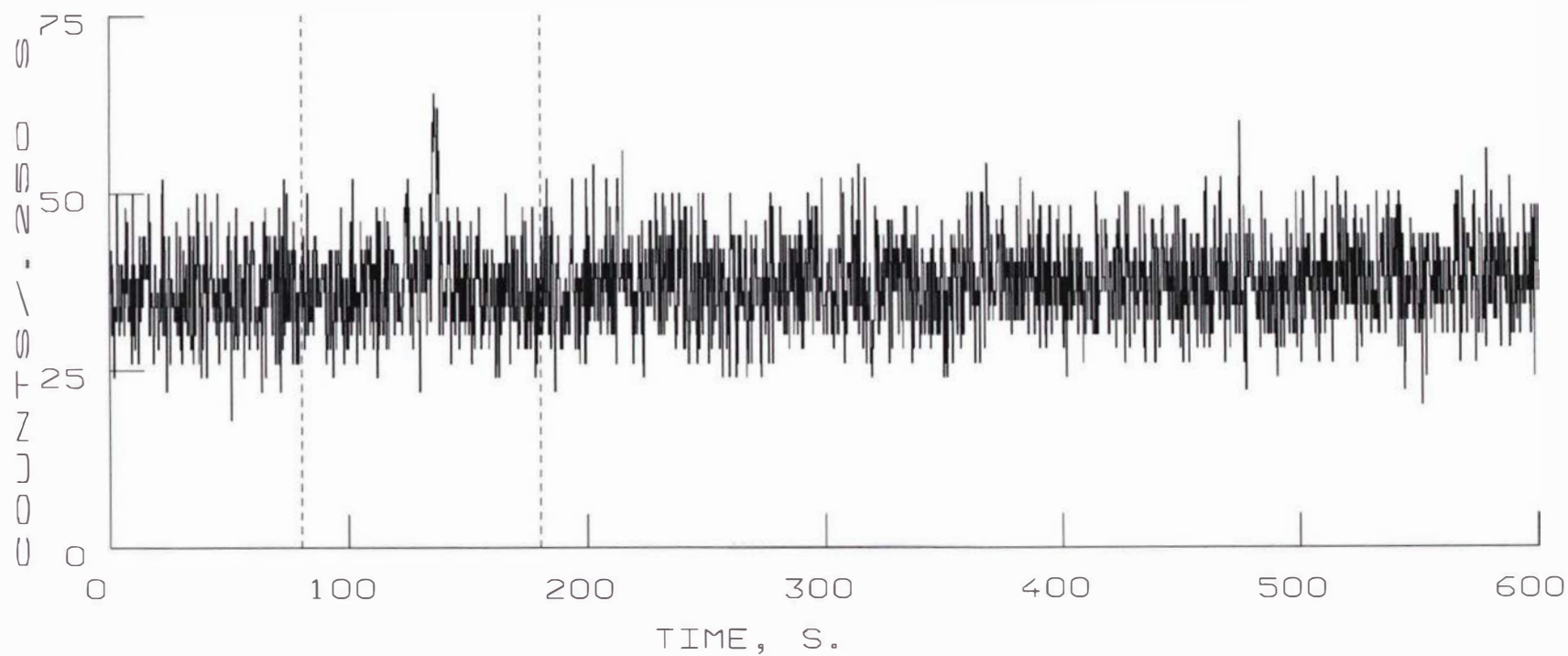
MS01 HEND

20/07/2016

17/08/2011 17110.799 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



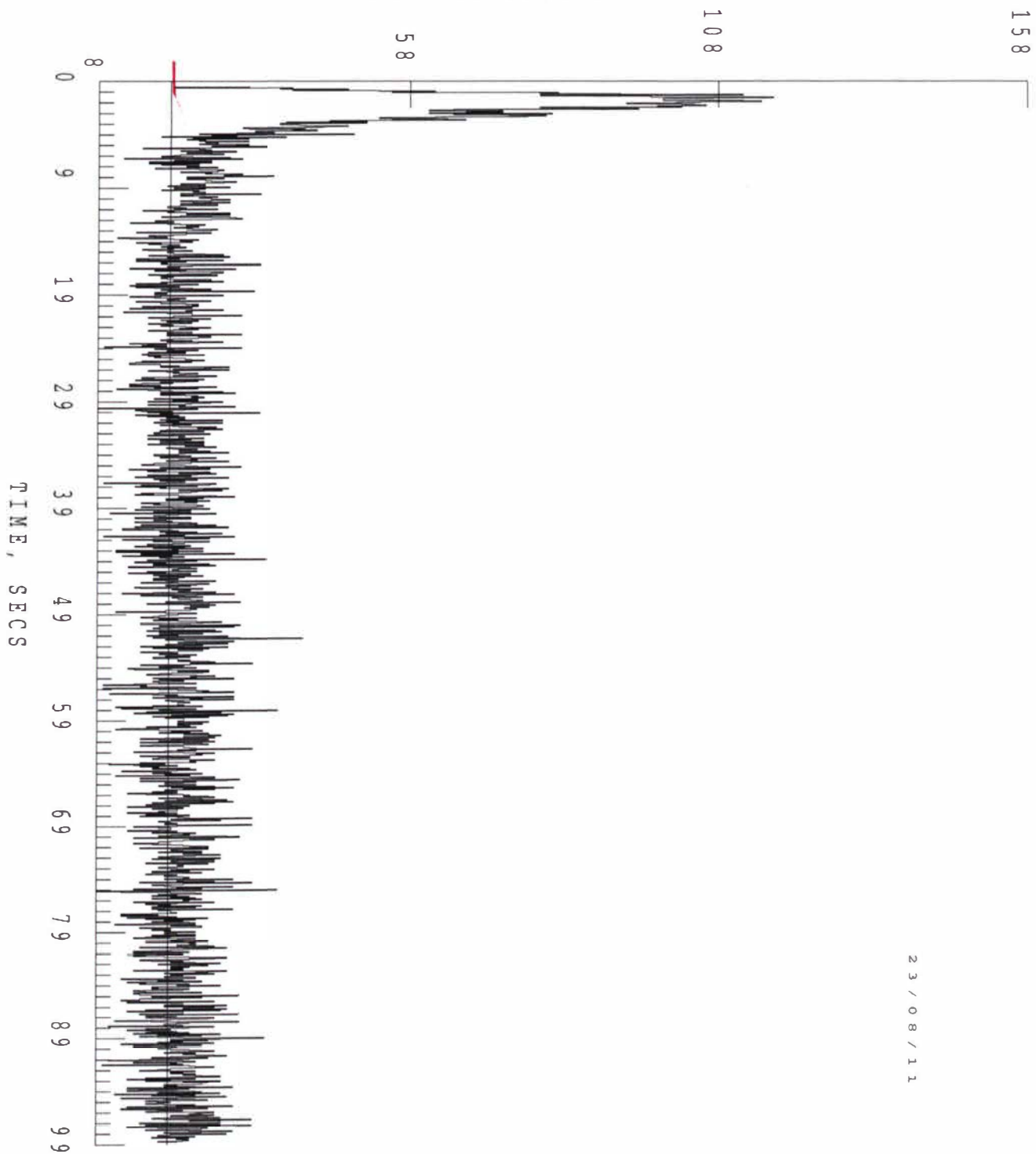
KONUS1

17/08/11

16515.788

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110817 16515

TRIGGER TIME: 17/08/11 DOY 229 Julian 2455791.69115 UT = 04.588 04:35:15 (16515.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

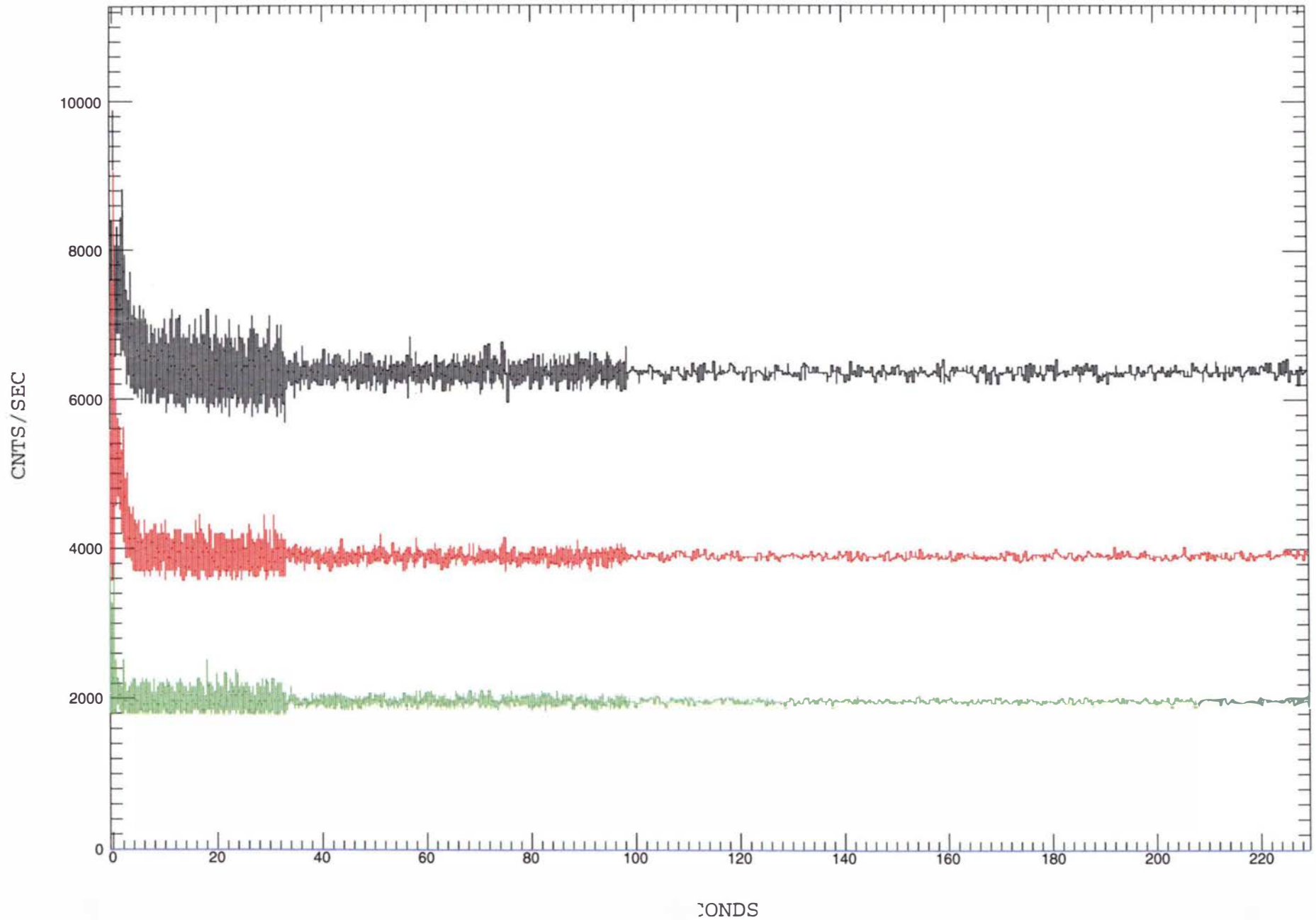
Chan 4 : [> 10 MeV]

Channel 1 + 5400

Channel 2 + 3600

Channel 3 + 1800

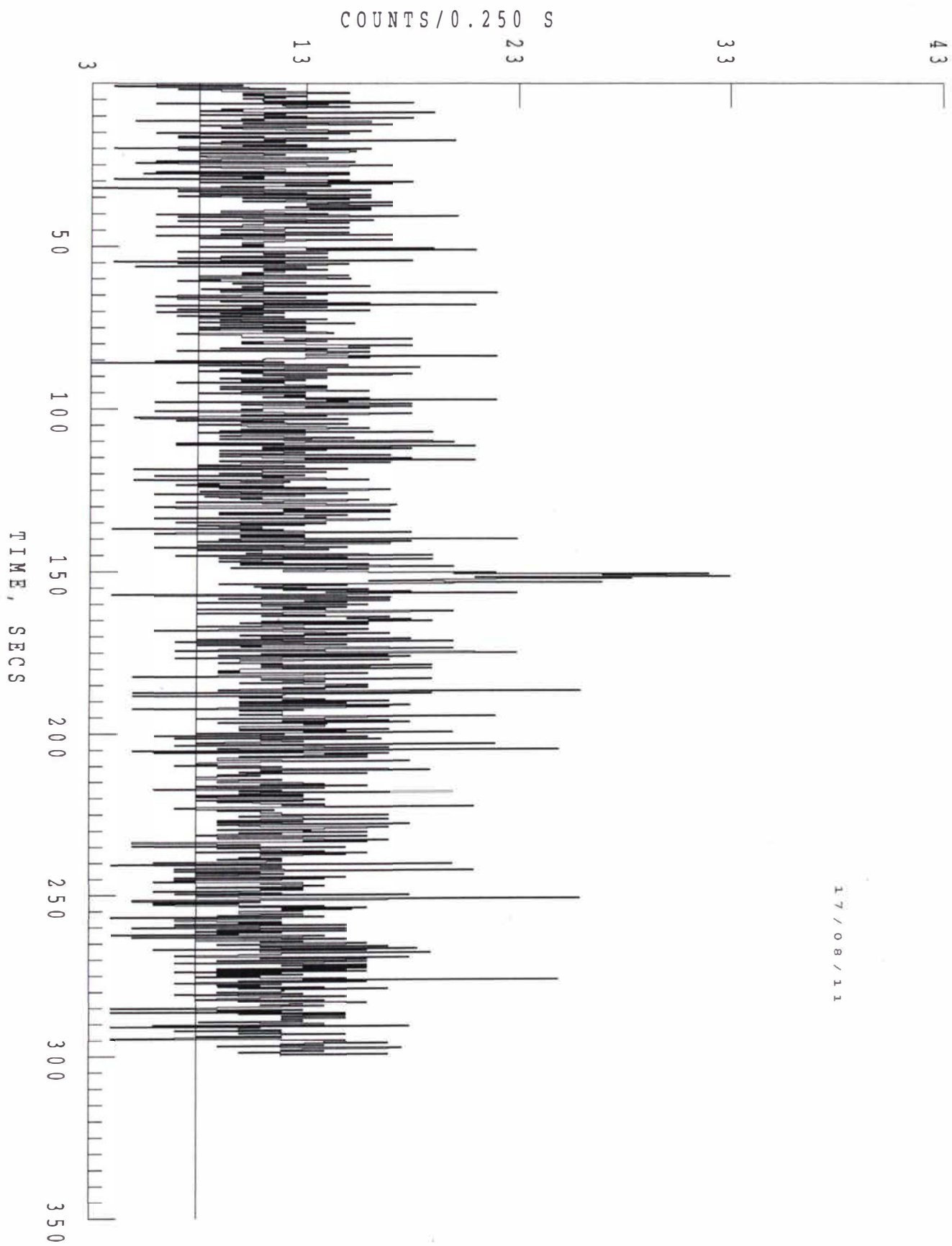
Channel 4 + 0



HESSI

17/08/11 16362.000 (GLAST_20110817_16512)

25- 150 keV



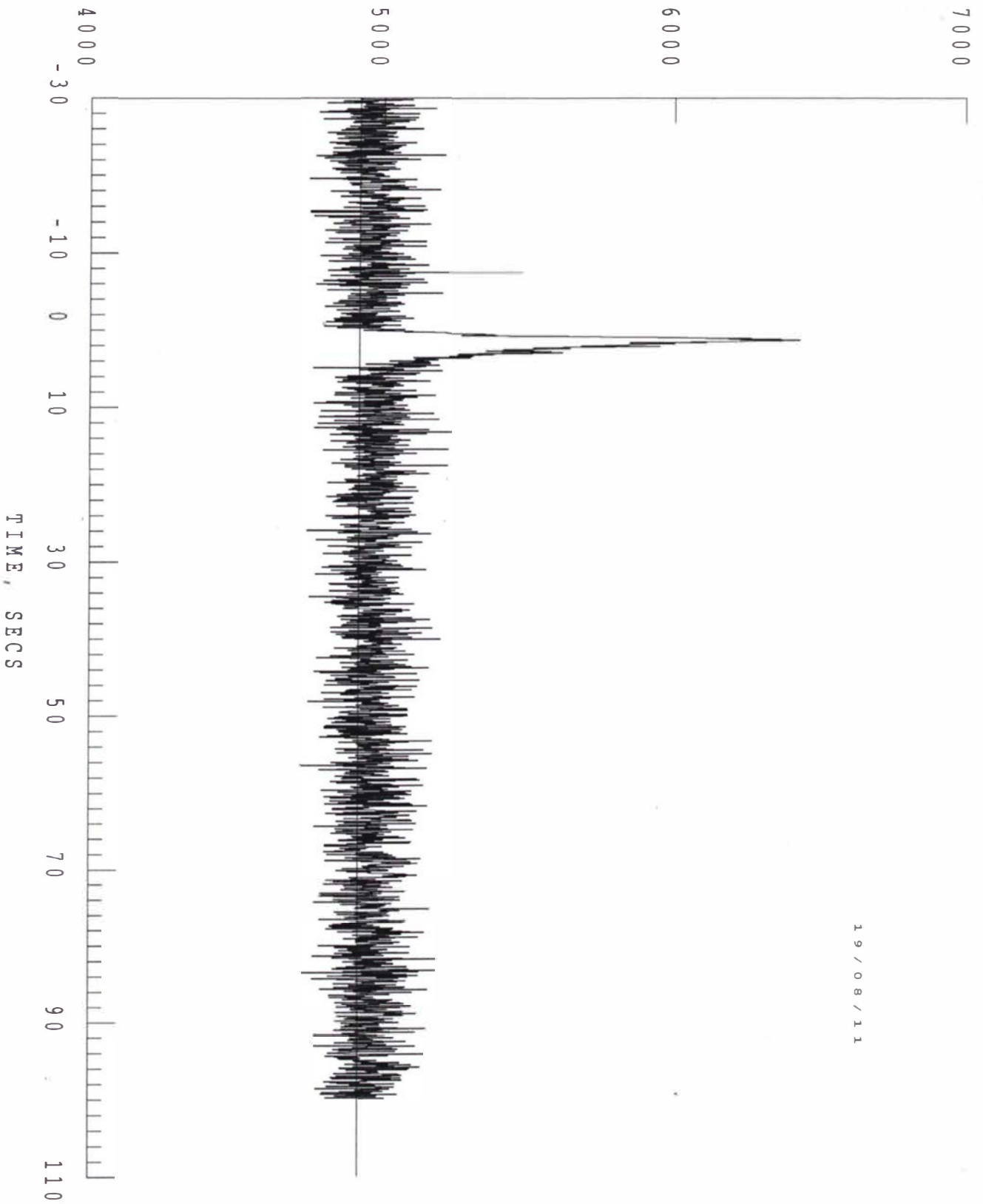
INTEGRAL

17/08/11

16511.986

100-10000 keV

COUNTS/0.050 S



19/08/11

Subject: [lpn] BAT lightcurve for trigger at 110817_0435

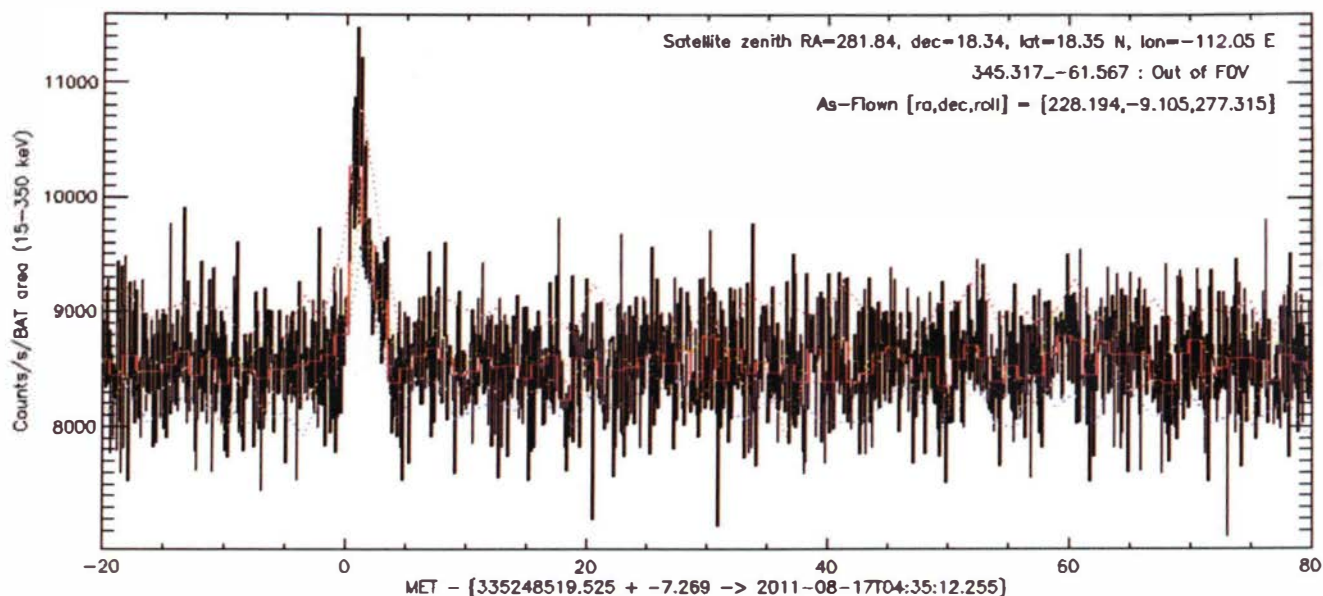
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 19 Aug 2011 19:13:34 -0600 (MDT)

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

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

/tmp/110817_0435.png



```
% /usr/local/bin/swinfo -o 335248519.282
Time(MET + UTCF -> UT): 335248519.283 + -7.269 -> 2011-08-17T04:35:12.013
Swift Zenith(RA,dec): 281.84, 18.34
Swift Location(lon,lat,alt): -112.05 E, 18.35 N, 575 km
Obs Sequence Number: 00031173093
Obs Target Name: PKS 1510-08
Obs Date and Times: 2011-08-17 04:25:54 - 04:41:49
Obs Pointing(ra,dec,roll): 228.194, -9.105, 277.31
```

```
% /usr/local/bin/swinfo -o 335248519.523 -s 335.020_-54.450
Time(MET + UTCF -> UT): 335248519.524 + -7.269 -> 2011-08-17T04:35:12.254
Swift Zenith(RA,dec): 281.84, 18.34
Swift Location(lon,lat,alt): -112.05 E, 18.35 N, 575 km
Obs Sequence Number: 00031173093
Obs Target Name: PKS 1510-08
Obs Date and Times: 2011-08-17 04:25:54 - 04:41:49
Obs Pointing(ra,dec,roll): 228.194, -9.105, 277.31
335.020_-54.450_imageloc (boresight_dist, angle): (92, 139)
335.020_-54.450_exposure (cm2 cos adjusted): 0
335.020_-54.450_altitude: 28 (up)
```

```
% /usr/local/bin/swinfo -o 335248519.524 -s 325.100_-67.150
Time(MET + UTCF -> UT): 335248519.525 + -7.269 -> 2011-08-17T04:35:12.255
Swift Zenith(RA,dec): 281.84, 18.34
Swift Location(lon,lat,alt): -112.05 E, 18.35 N, 575 km
Obs Sequence Number: 00031173093
Obs Target Name: PKS 1510-08
Obs Date and Times: 2011-08-17 04:25:54 - 04:41:49
Obs Pointing(ra,dec,roll): 228.194, -9.105, 277.31
325.100_-67.150_imageloc (boresight_dist, angle): (84, 150)
325.100_-67.150_exposure (cm2 cos adjusted): 0
325.100_-67.150_altitude: 22 (depressed but unattenuated)
```

```
% /usr/local/bin/swinfo -o 335248519.524 -s 345.317_-61.567
Time(MET + UTCF -> UT): 335248519.525 + -7.269 -> 2011-08-17T04:35:12.255
Swift Zenith(RA,dec): 281.84, 18.34
Swift Location(lon,lat,alt): -112.05 E, 18.35 N, 575 km
Obs Sequence Number: 00031173093
Obs Target Name: PKS 1510-08
```

[lpn] BAT lightcurve for trigger at 110817_0435

Obs Date and Times: 2011-08-17 04:25:54 - 04:41:49
Obs Pointing(ra,dec,roll): 228.194, -9.105, 277.31
345.317_-61.567_imageloc (boresight_dist, angle): (94, 148)
345.317_-61.567_exposure (cm² cos adjusted): 0
345.317_-61.567_altitude: 19 (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>

/tmp/110817_0435.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110817_0435_bat64ms_lpn

/tmp/110817_0435_bat64ms_lpn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Subject: [lpn] Possible out-of-field burst 11 hours ago, 04:35:11 UT

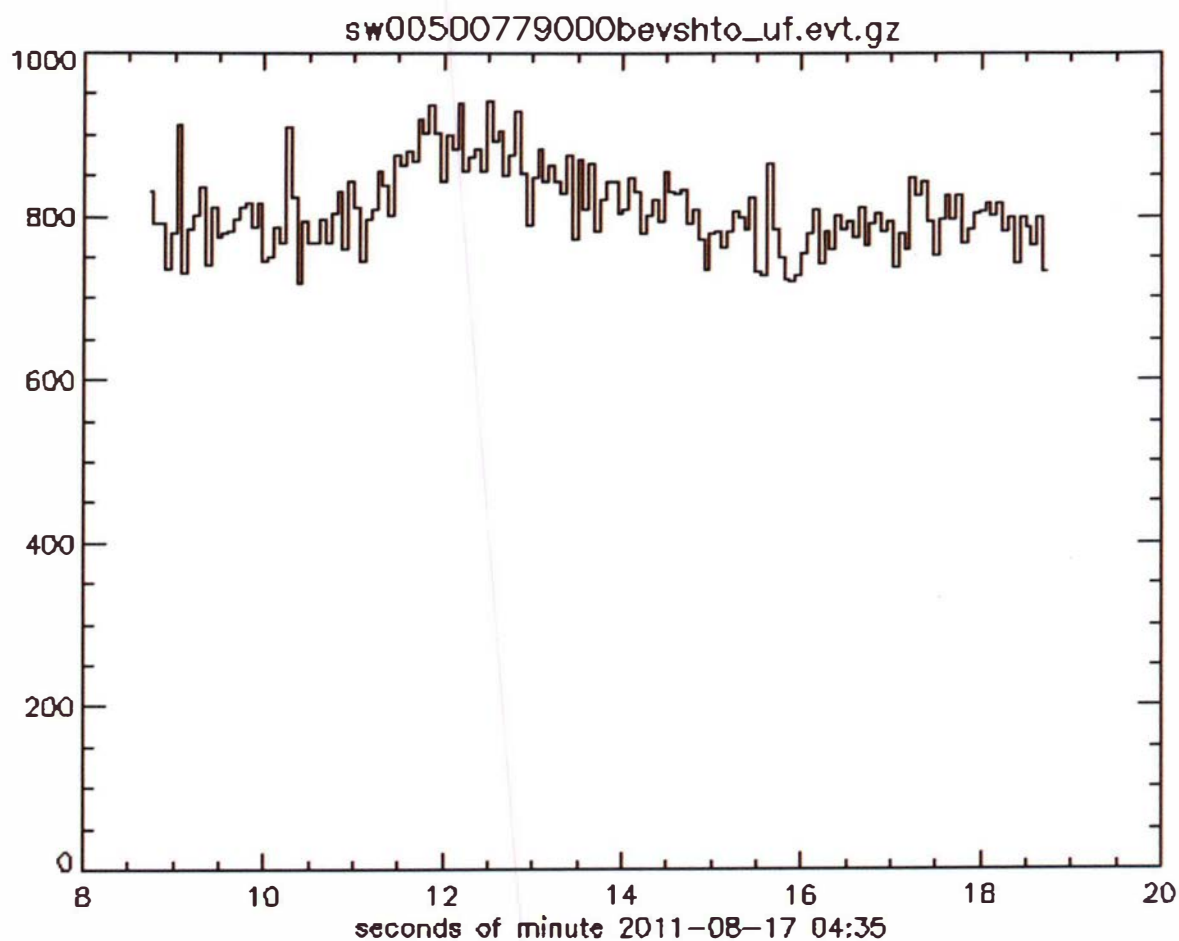
From: David Palmer <palmer@lanl.gov>

Date: Wed, 17 Aug 2011 10:07:04 -0600

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

Trigger 500779 was out-of-field by BAT according to the locations from Fermi. The 64 ms lightcurve data isn't down yet (hence no AUTOMATICALLY GENERATED plot), so here is the light curve from the event dump.

GRB110817.png



% /usr/local/bin/swinfo -o 335248519.168

Time (MET + UTCF -> UT): 335248519.169 + -7.269 -> 2011-08-17T04:35:11.899
Swift Zenith(RA,dec): 281.77, 18.35
Swift Location(lon,lat,alt): -112.11 E, 18.36 N, 575 km
Obs Sequence Number: 00031173093
Obs Target Name: PKS 1510-08
Obs Date and Times: 2011-08-17 04:25:54 - 04:41:49
Obs Pointing(ra,dec,roll): 228.194, -9.105, 277.31

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

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

sw00500779000bevsho_uf.evt.gz.ipn	Content-Encoding: 7bit
-----------------------------------	------------------------

Part 1.3

Part 1.3	Content-Type: text/plain
	Content-Encoding: 7bit

GRB110817.png

GRB110817.png	Content-Type: image/png
	Content-Encoding: base64

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: quoted-printable

Part 1.6

Part 1.6	Content-Type: text/plain
	Content-Encoding: 7bit

08/08/11

MESSENGER

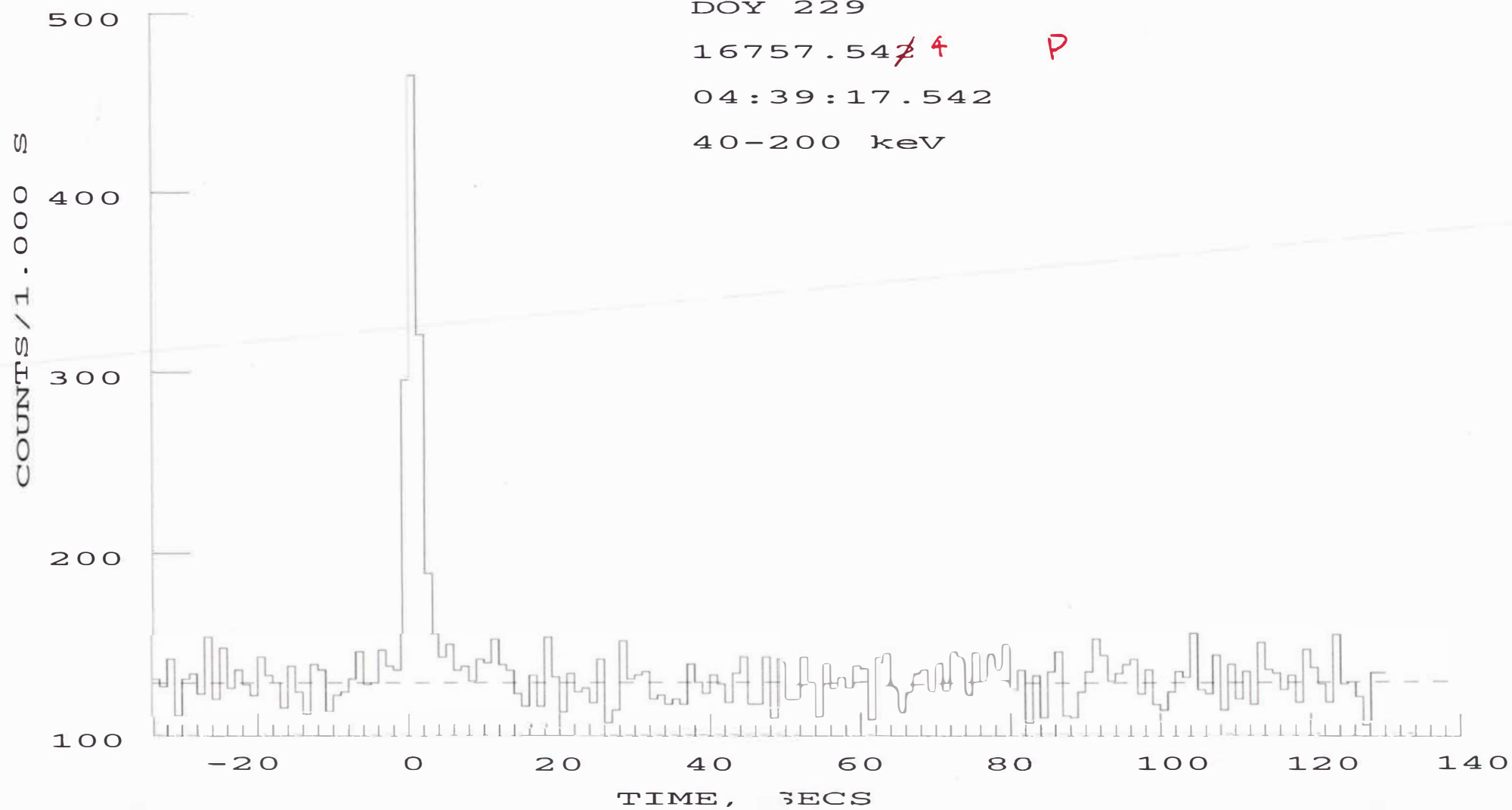
17/08/11

DOY 229

16757.54~~4~~ P

04:39:17.542

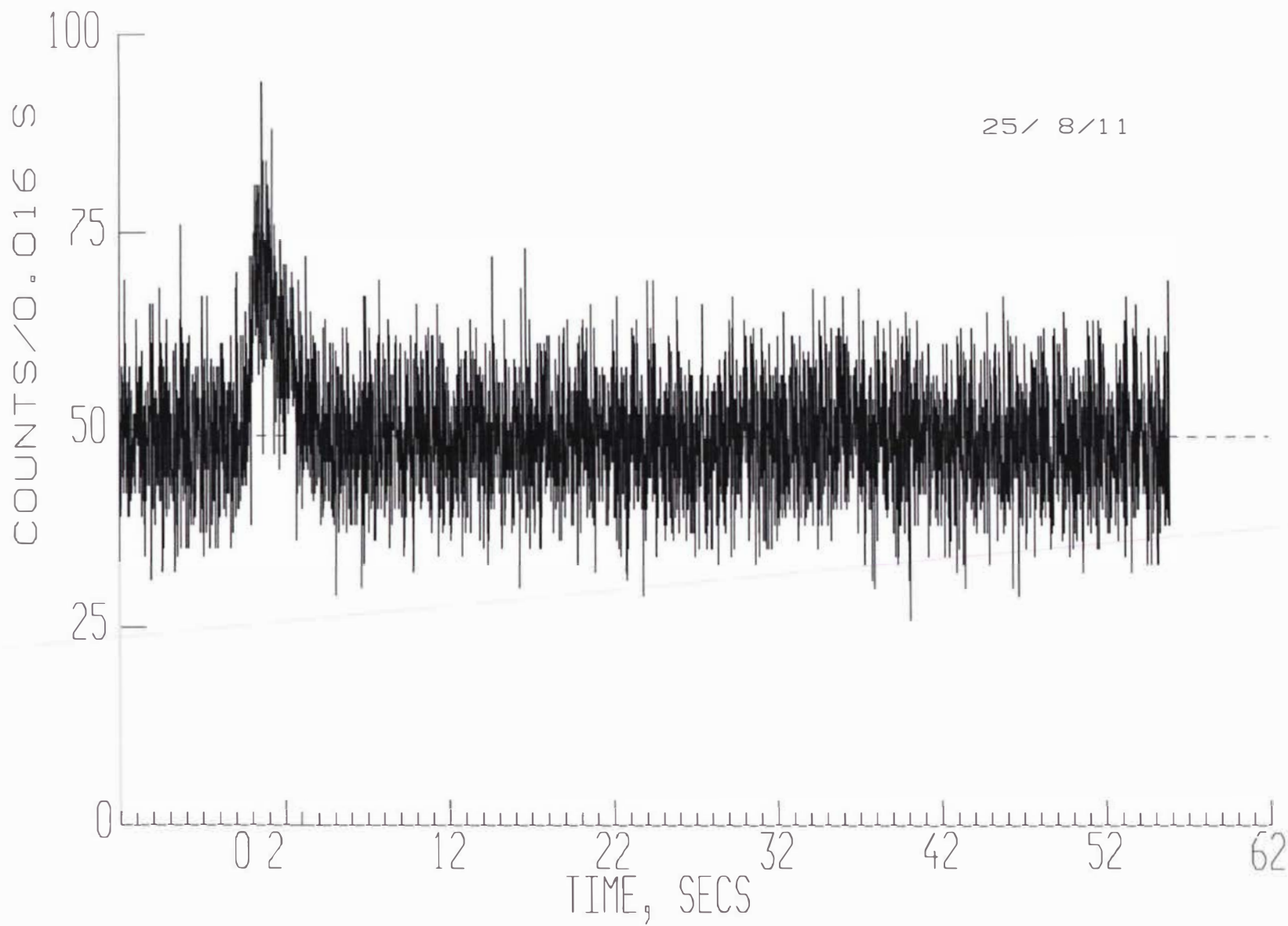
40-200 keV



SUZAKU

17/08/11 16512.502

50- 240 keV



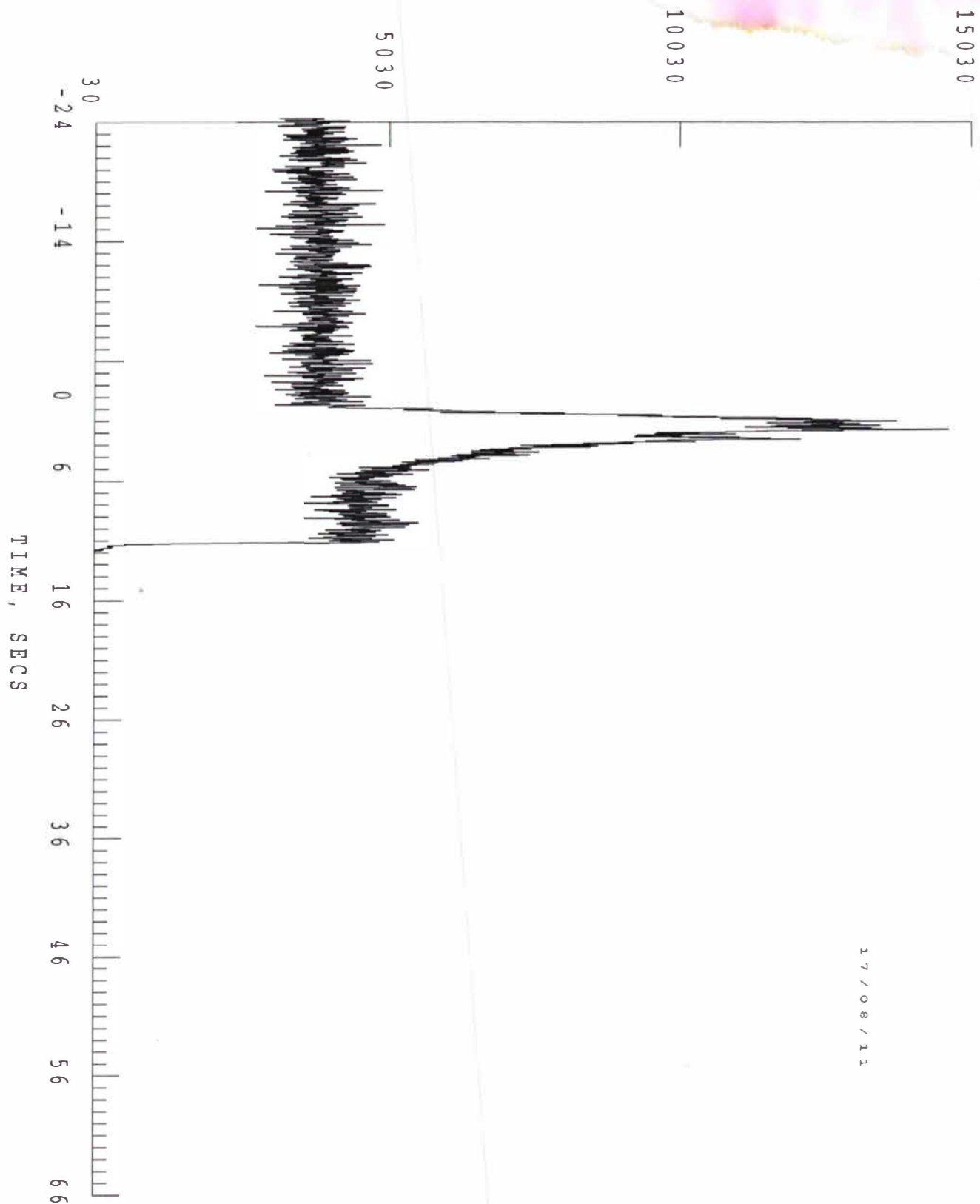
GLAST

17/08/11

16512.120

26- 293 keV

COUNTS/0.032 S

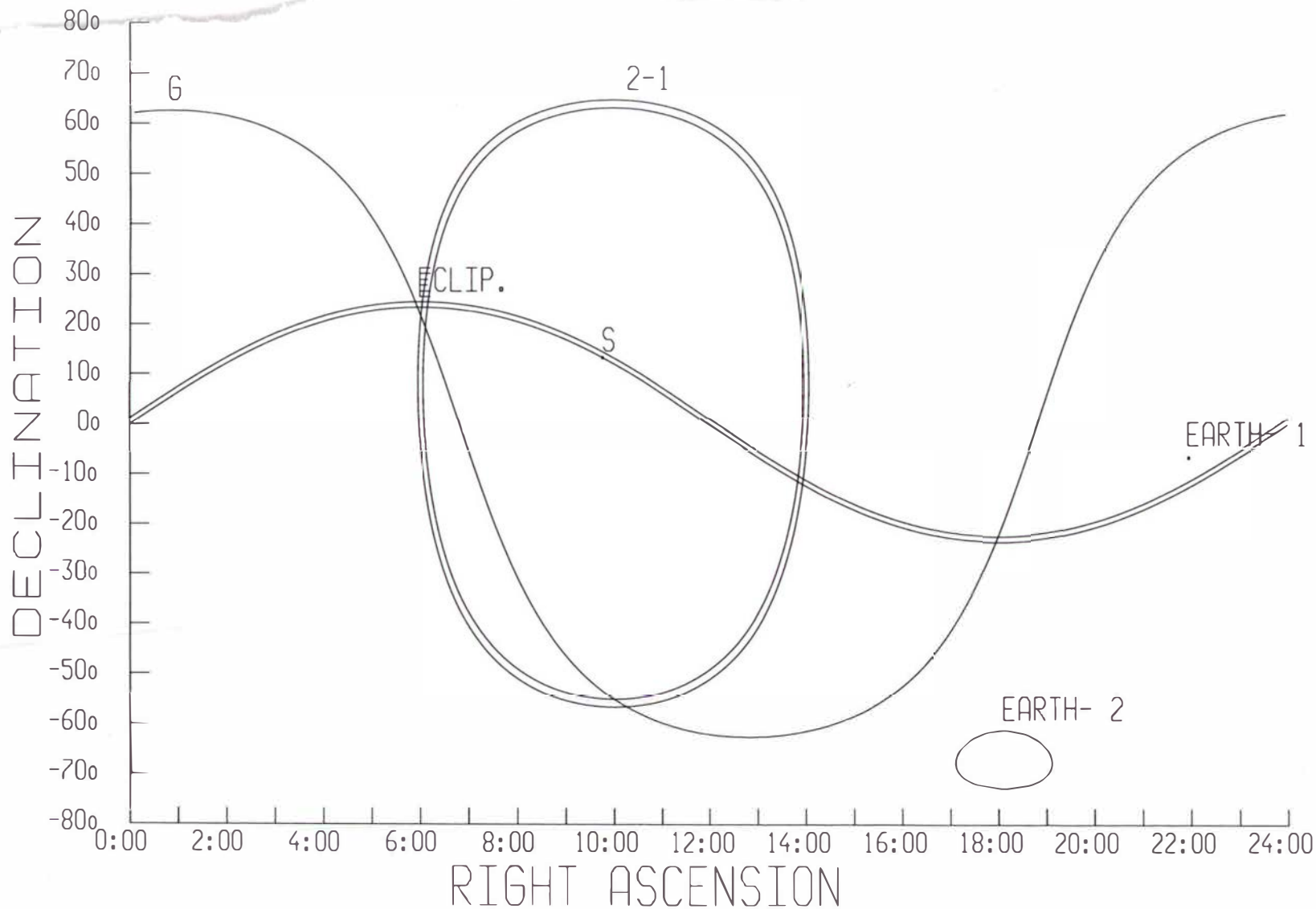


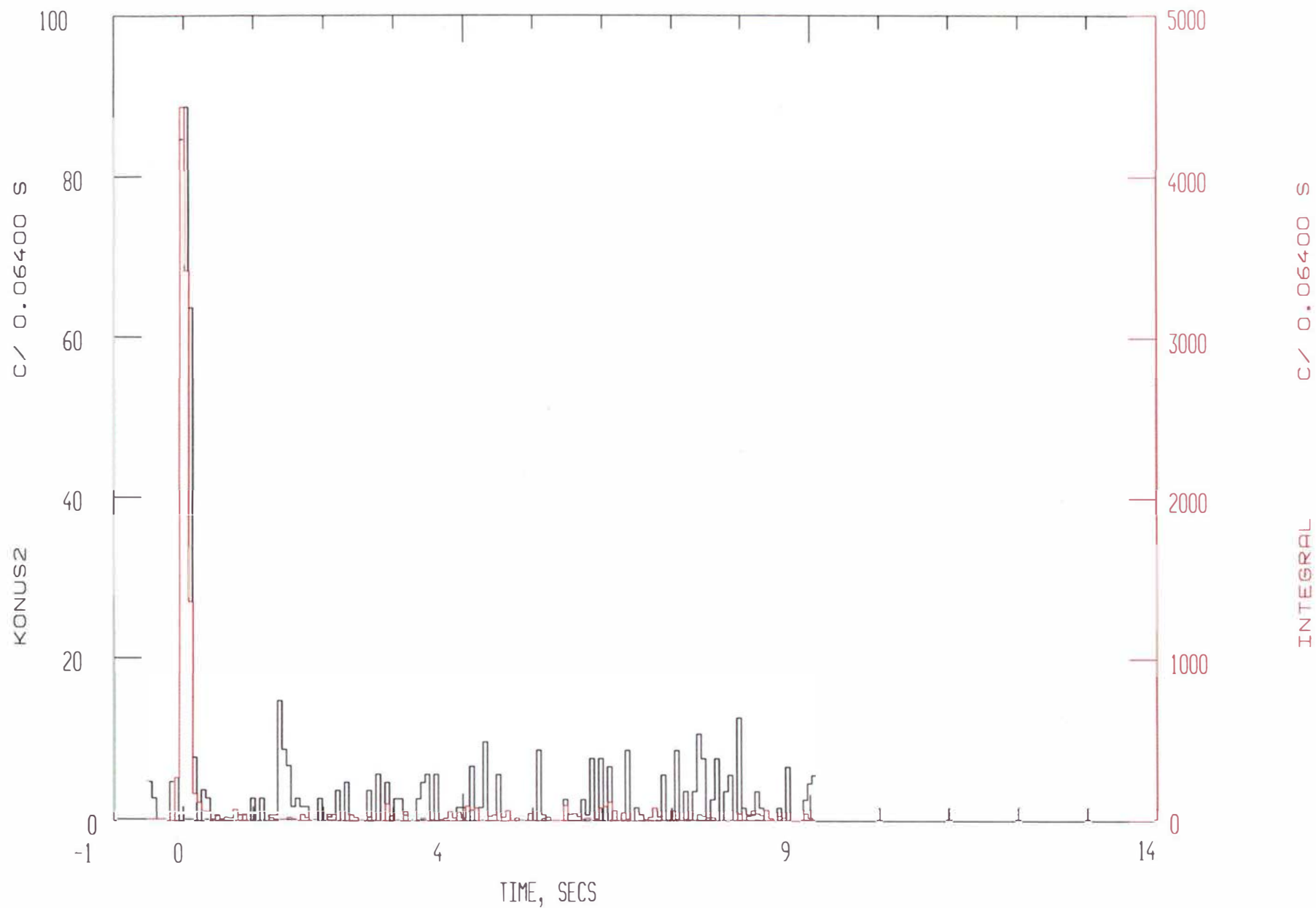
17/08/11

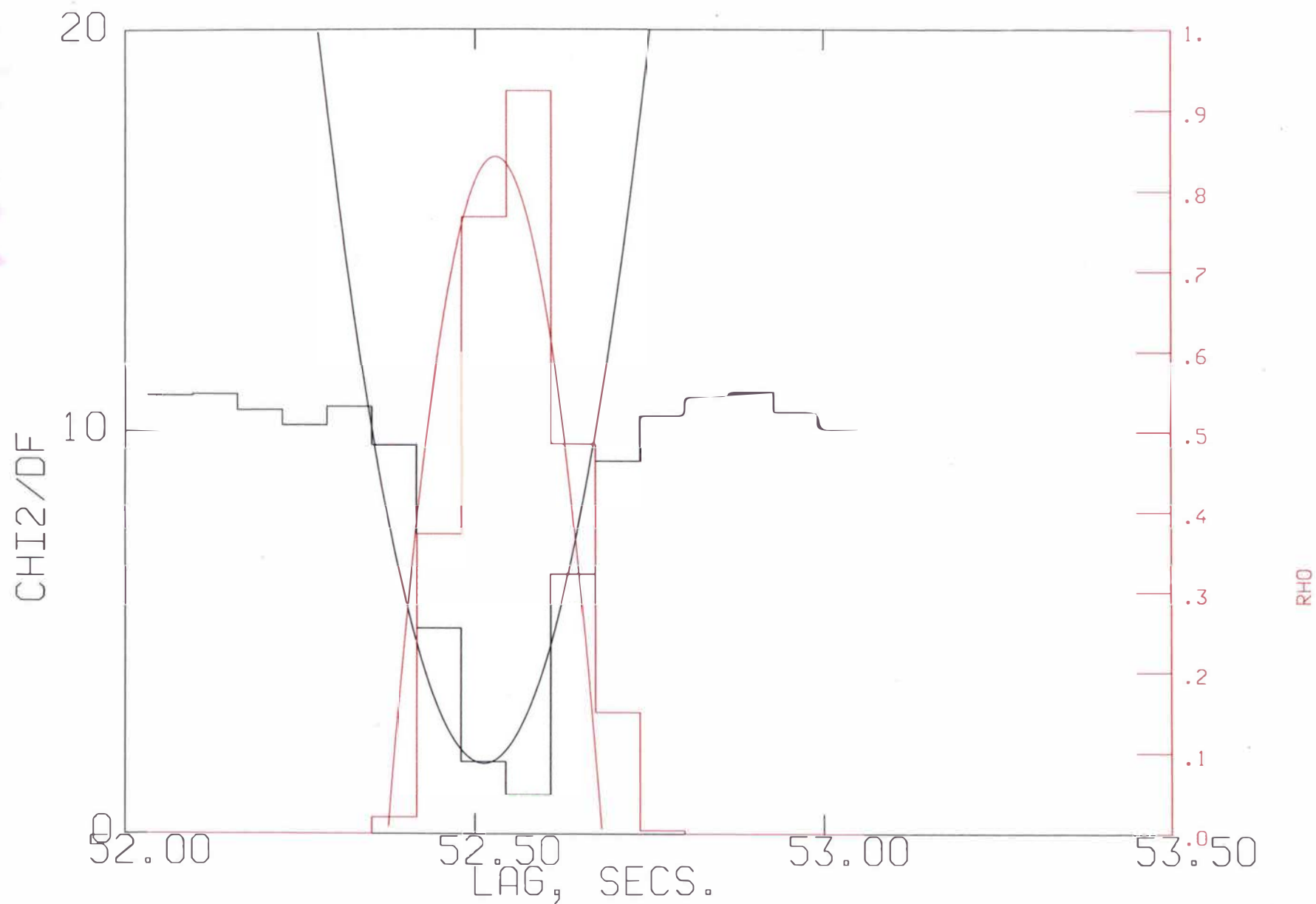
EVENT OF AUG 17, 2011 13:05

24/07/2015

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







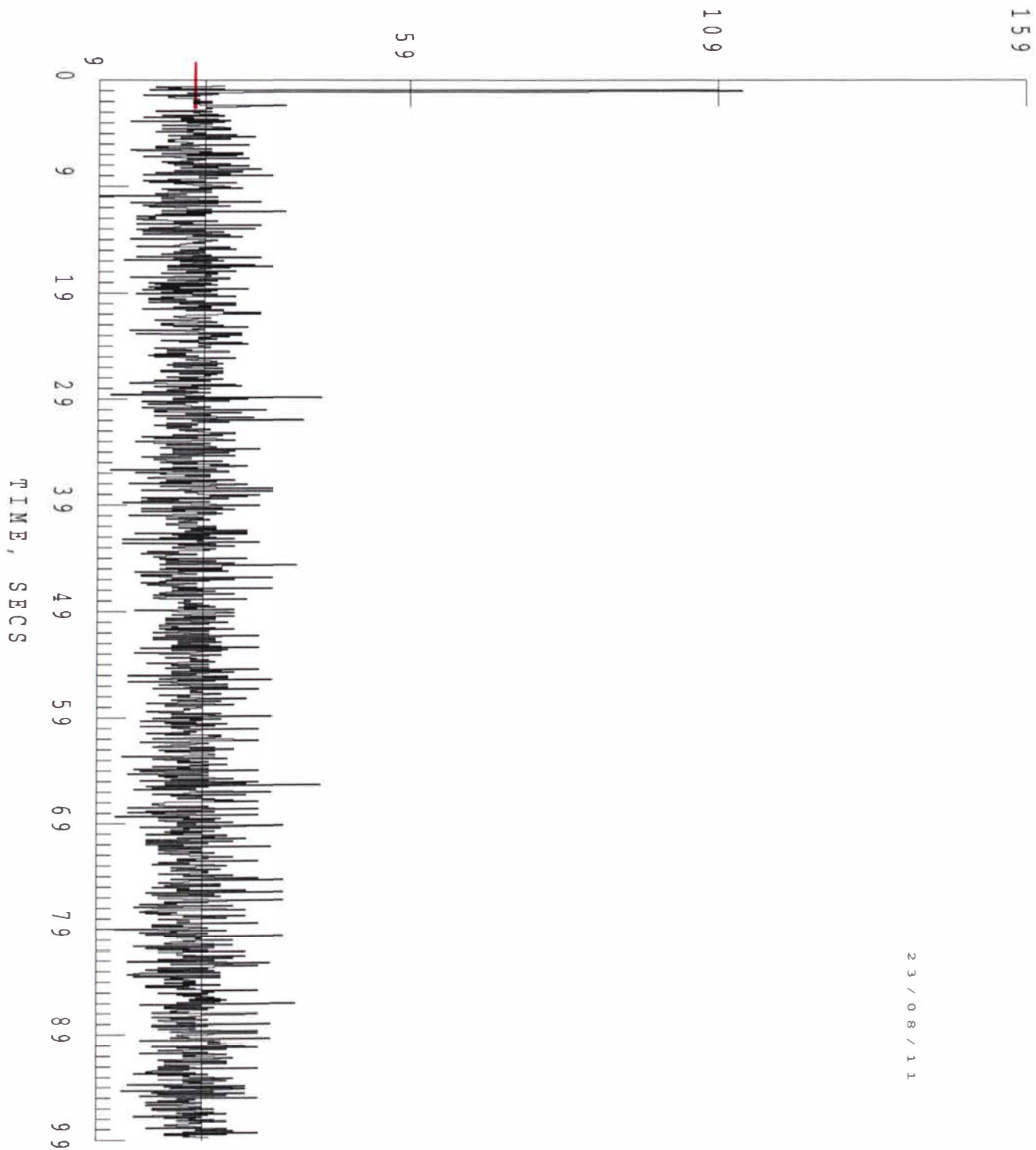
KONUS2

17/08/11

47100.900

50 - 200 keV

COUNTS/0.064 S



23/08/11

KONUS HRES 20110817 47100

TRIGGER TIME: 17/08/11 DOY 229 Julian 2455792.04514 UT = 13.083 13:05:00 (47100.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

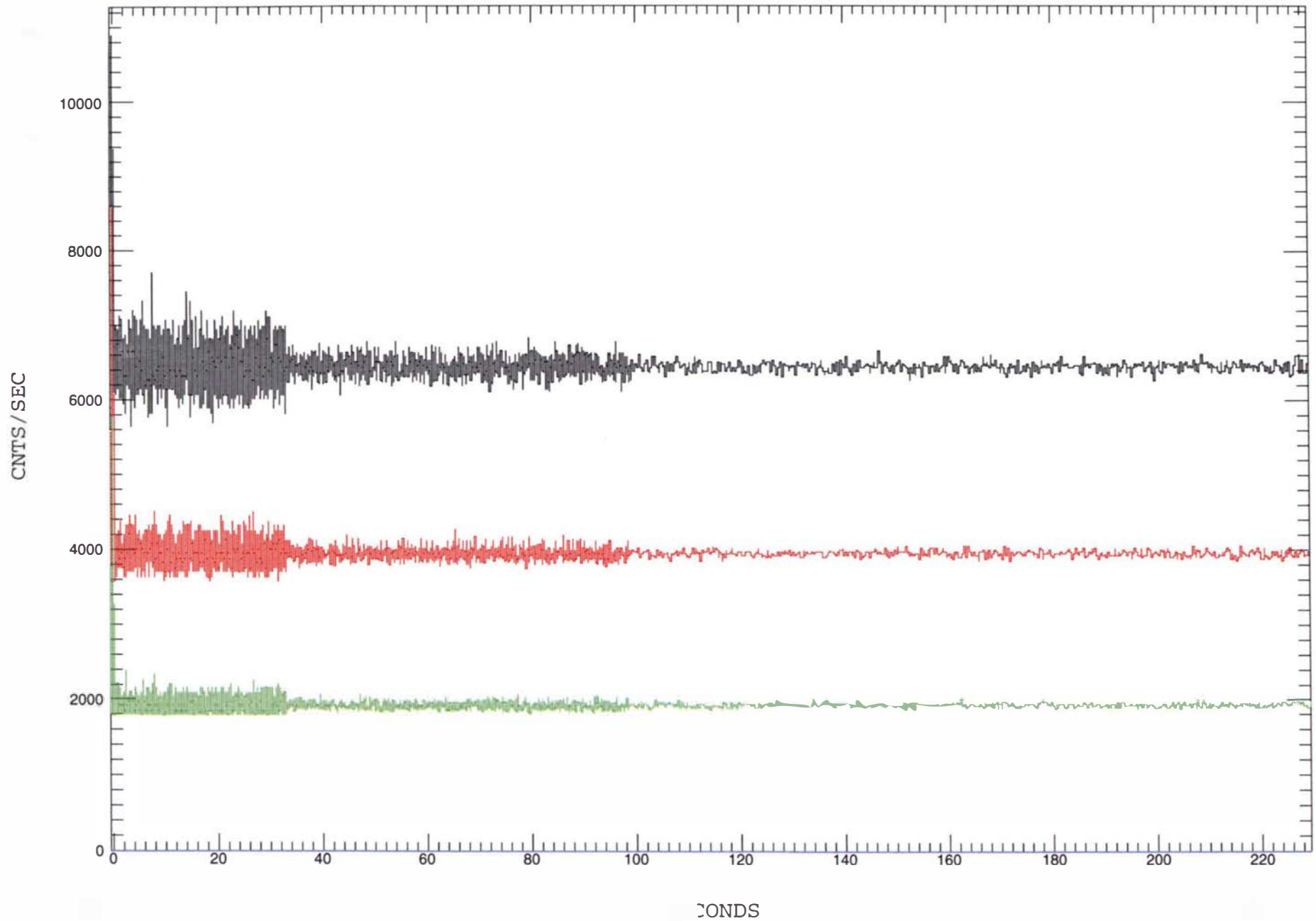
Chan 4 : [> 10 MeV]

Channel 1 + 5400

Channel 2 + 3600

Channel 3 + 1800

Channel 4 + 0



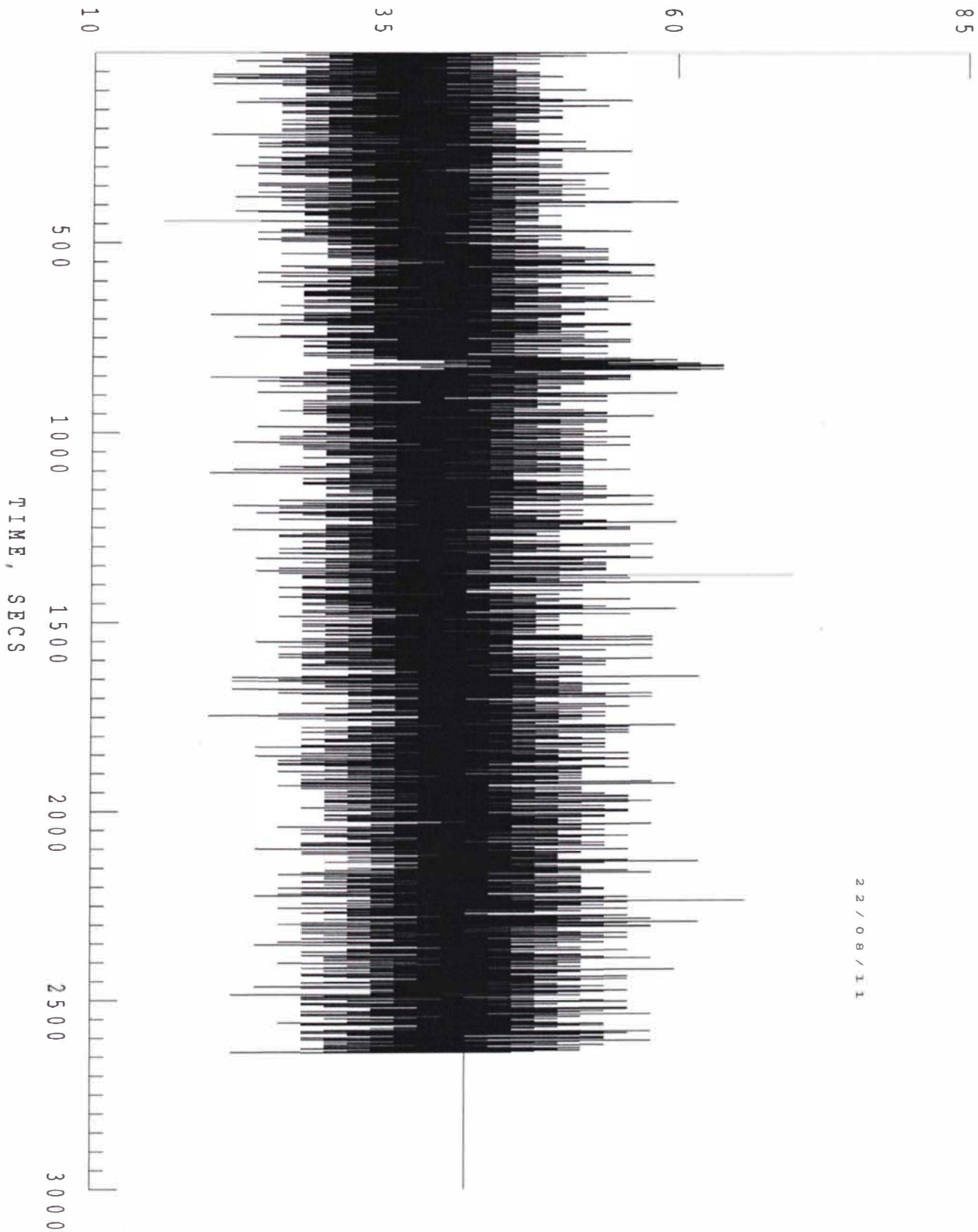
MS01

17/08/11

45730.313

50 - 3000 keV

COUNTS/0.250 S



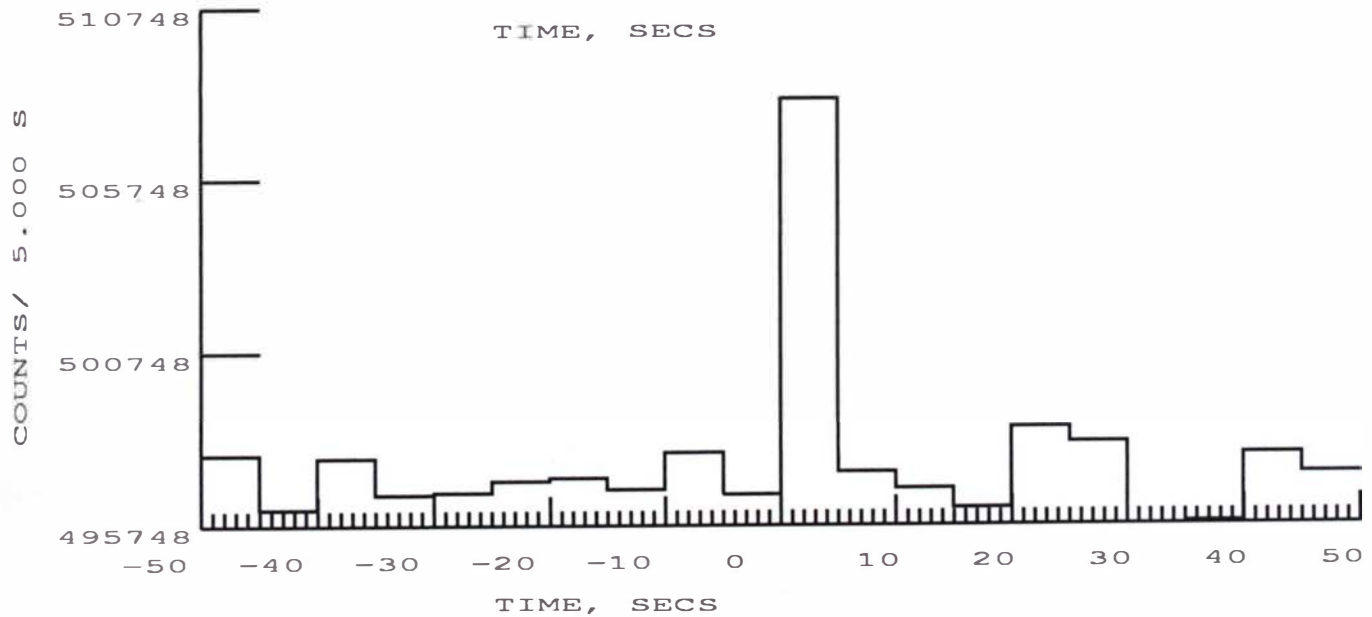
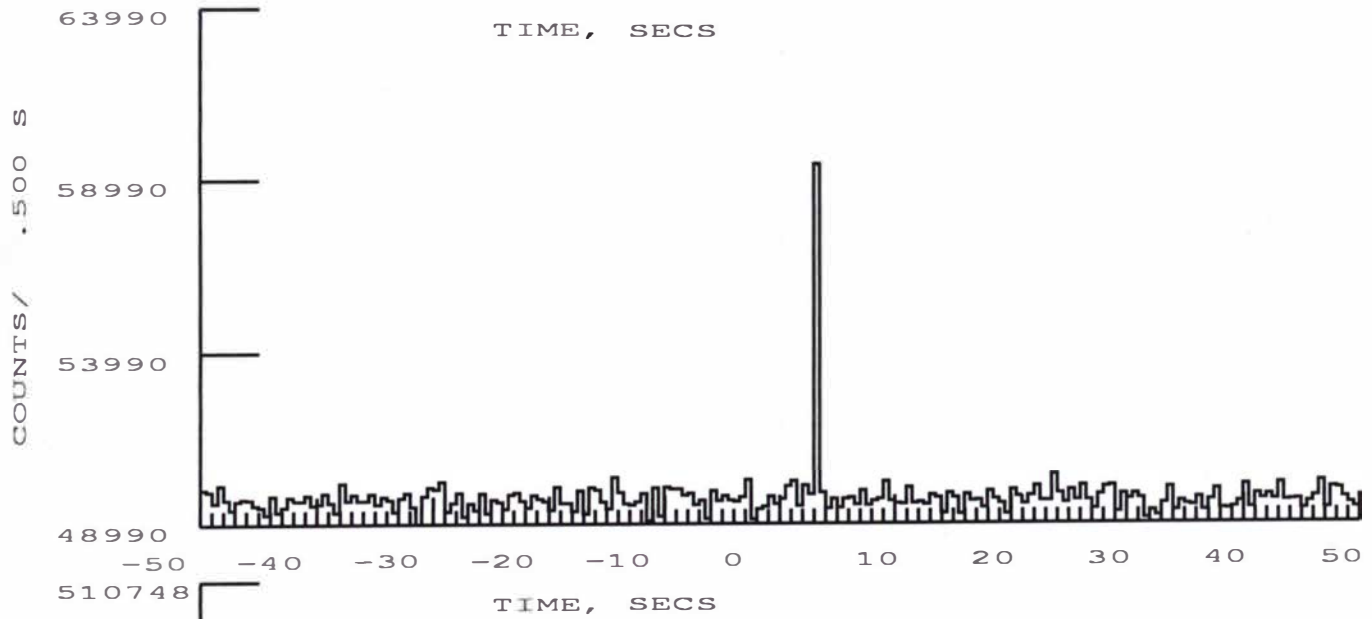
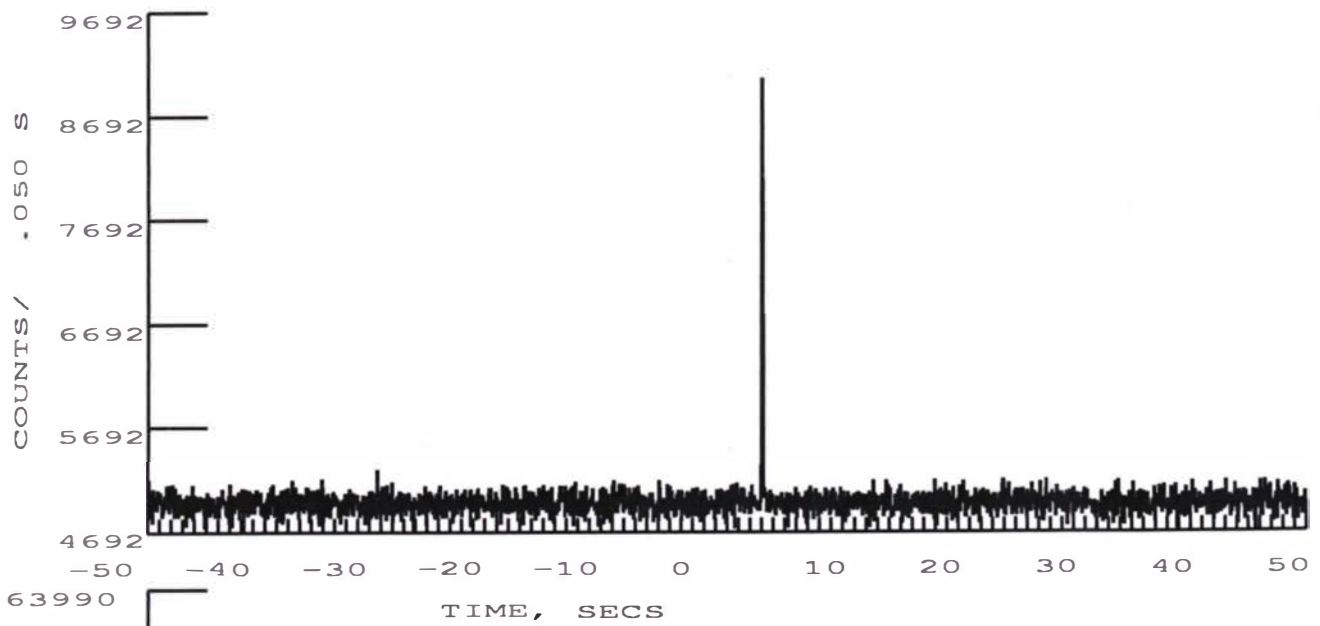
INTEGRAL

17/08/11

47100.000

13:05:00.0

20/01/14



From williams@gammaburst.ssl.berkeley.edu Mon Aug 22 23:02:54 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 22 Aug 2011 23:02:11 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20110817_47100
X-Ucb-Scan-Signature: 78e5a79dcef02e1d28b5cfceb1469c2f0efb944e
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.473'
X-Ucb-Notice: This message has been processed by a spam tagging system.

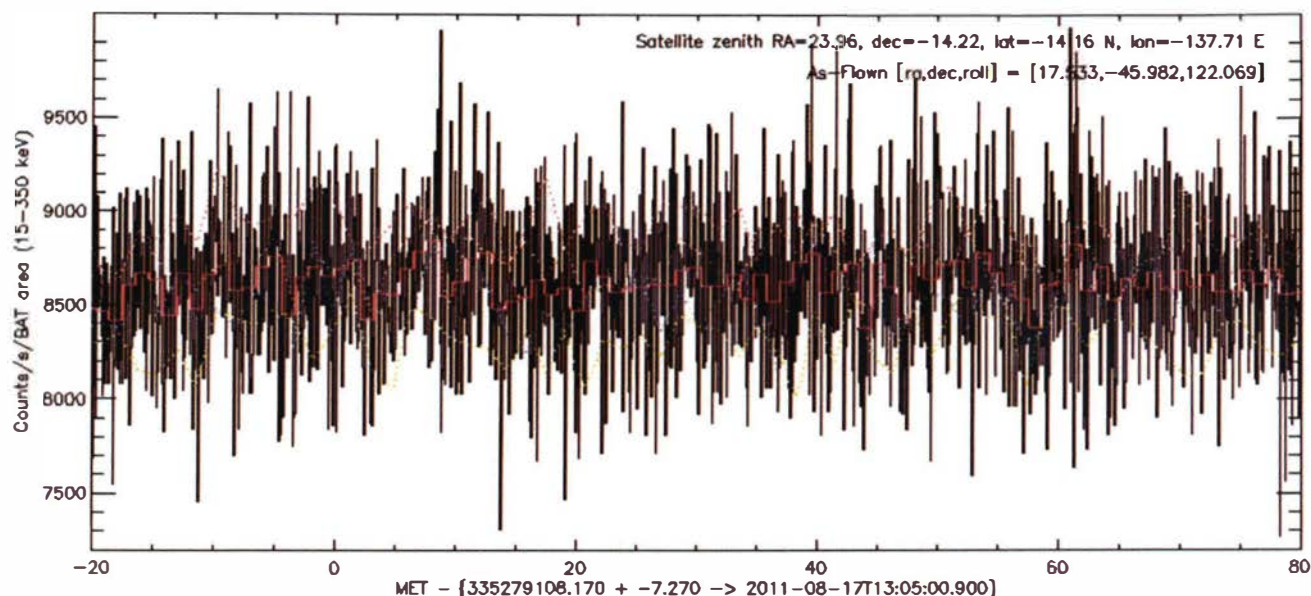
HESSI 25 to 150 keV Counts
Created 22-Aug-2011 23:02:45.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Re: [ipn] short hard GRB detected by Konus-Wind on August 17 (=G...

Subject: Re: [ipn] short hard GRB detected by Konus-Wind on August 17 (=GRB 110817(B))
From: David Palmer <palmer@lanl.gov>
Date: Thu, 25 Aug 2011 11:06:37 -0600
To: "Valentin Pal'shin" <val@mail.ioffe.ru>
CC: IPN <ipn@ssl.berkeley.edu>

Looks like nothing in BAT.

_tmp_110817_1305.png



```
% /usr/local/bin/swinfo -o 2011-08-17T13:05:00.9
Time(MET + UTC -> UT): 335279108.170 + -7.270 -> 2011-08-17T13:05:00.900
Swift Zenith(RA,dec): 23.96, -14.22
Swift Location(lon,lat,alt): -137.71 E, -14.16 N, 582 km
Obs Sequence Number: 00031287103
Obs Target Name: ESO 243-49
Obs Date and Times: 2011-08-17 12:43:38 - 13:07:24
Obs Pointing(ra,dec,roll): 17.533, -45.982, 122.07
Obs Sequence Number: 00031287102
Obs Target Name: ESO 243-49
Obs Date and Times: 2011-08-17 12:59:52 - 13:17:50
Obs Pointing(ra,dec,roll): 17.577, -45.999, 121.11
```

On Aug 18, 2011, at 1:05 PM, Valentin Pal'shin wrote:

Dear colleagues,

A short hard rather bright GRB triggered Konus-Wind at 2011-08-17 T0(KW)=47100.900 s UT (13:05:00.900) - see the attached figure.

The source of the burst is in the northern ecliptic hemisphere at high ecliptic latitude.

Any other detections?

Best wishes,

Valentin

Valentin Pal'shin

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

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

Fax: (7)-812-2971963
<GRB110817B_KW_16ms.png>
Ipn mailing list
Ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

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

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

_tmp_110817_1305_bat64ms_ipn	Content-Type:	application/octet-stream
	Content-Encoding:	7bit

Part 1.3

Part 1.3	Content-Type:	text/plain
	Content-Encoding:	7bit

_tmp_110817_1305.png

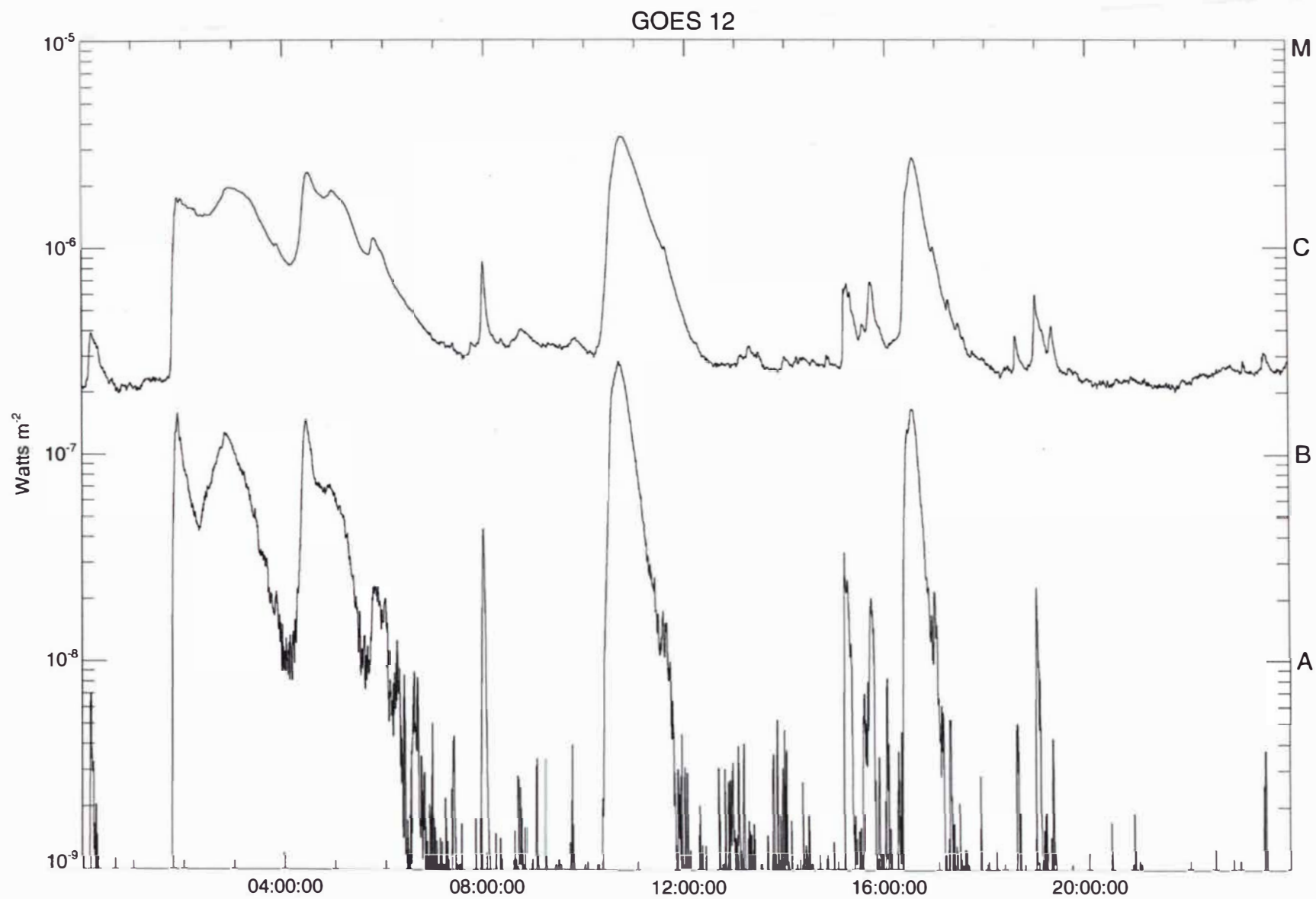
_tmp_110817_1305.png	Content-Type:	image/png
	Content-Encoding:	base64

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	quoted-printable

Part 1.6

Part 1.6	Content-Type:	text/plain
	Content-Encoding:	7bit



Data Start: 11/08/17, 0000:09

Plot created: 11/08/20, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

From vxw@capella2.gsfc.nasa.gov Thu Aug 18 13:40:33 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Thu, 18 Aug 2011 16:41:33 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 209e6a8875c06441fd54473277db9a47b4b58c03
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -1.167'
X-Ucb-Notice: This message has been processed by a spam tagging system.

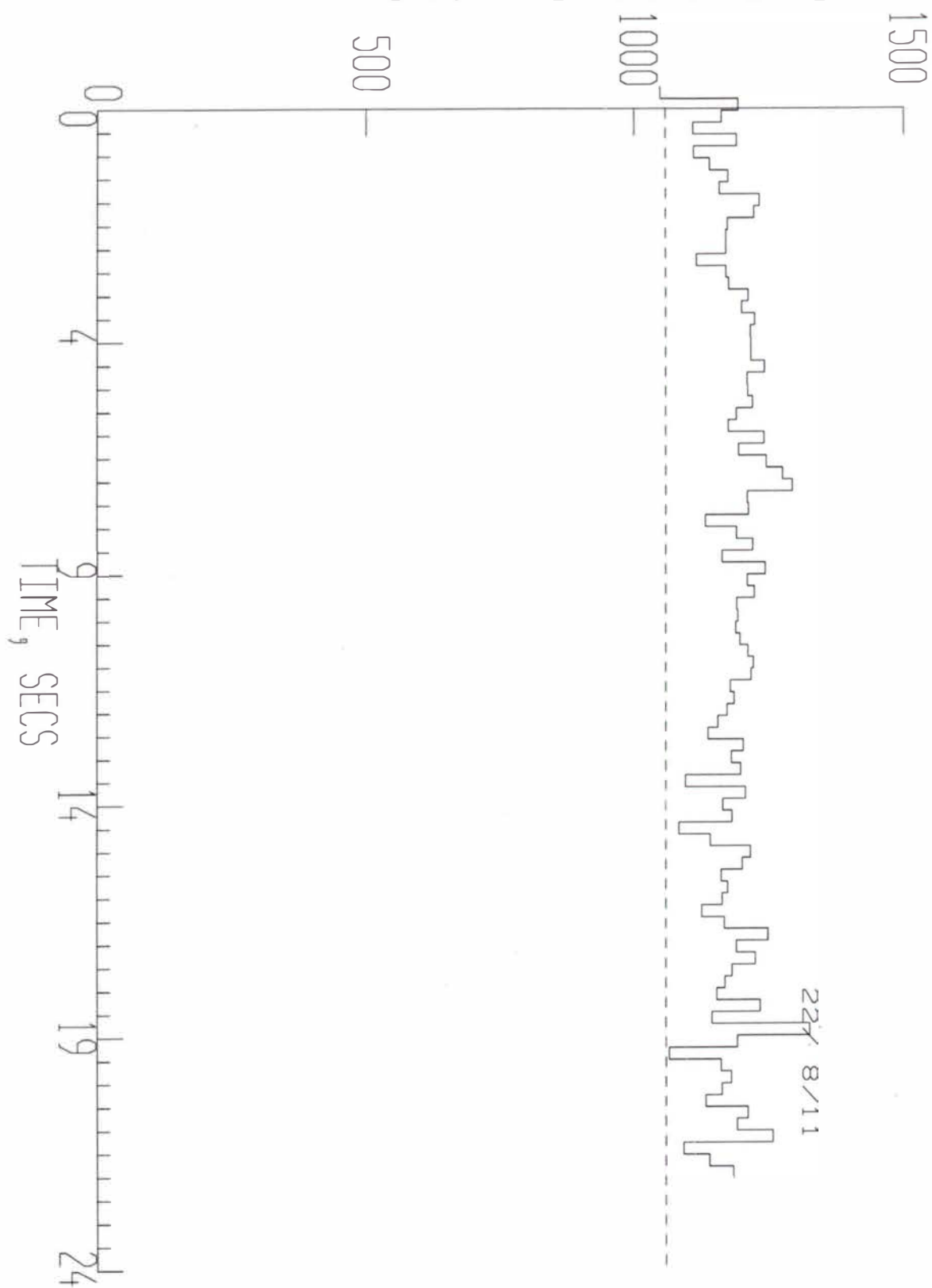
TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Thu 18 Aug 11 20:41:32 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 500914, Seg Num: 0
GRB_RA: 317.384d {+21h 09m 32s} (J2000),
317.622d {+21h 10m 29s} (current),
316.352d {+21h 05m 24s} (1950)
GRB_DEC: -63.970d {-63d 58' 10"} (J2000),
-63.922d {-63d 55' 18"} (current),
-64.173d {-64d 10' 21"} (1950)
GRB_DATE: 15791 TJD; 230 DOY; 11/08/18
GRB_TIME: 74269.20 SOD {20:37:49.20} UT
TRIGGER_INDEX: 478
GRB_PHI: 154.17 [deg]
GRB_THETA: 41.77 [deg]
DELTA_TIME: 32.00 [sec]
TRIGGER_DUR: 12.160 [sec]
SOLN_STATUS: 0x2003
RATE_SIGNIF: 16.03 [sigma]
MAGE_SIGNIF: 14.23 [sigma]
LC_URL: sw00500914000msb.lc
SUN_POSTN: 147.82d {+09h 51m 17s} +13.00d {+13d 00' 01"}
SUN_DIST: 128.58 [deg] Sun_angle= -11.3 [hr] (East of Sun)
MOON_POSTN: 18.88d {+01h 15m 30s} +12.63d {+12d 37' 38"}
MOON_DIST: 89.43 [deg]
MOON_ILLUM: 78 [%]
GAL_COORDS: 330.71, -39.13 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS: 297.14, -44.93 [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=5.76) 6.94 arcmin from this position
COMMENTS: This is a GRB.
COMMENTS: This trigger occurred at longitude,latitude = 346.75,19.32 [deg]

103 s
 $4 \times 10^{-6} \text{ erg cm}^{-2}$
 $1.6 \text{ phot/cm}^2 \text{ s}$

SWIFT 18/08/11 74269.206

25- 100 keV

COUNTS/0.256 S



Subject: [lpn] BAT lightcurve for trigger at 110818_2037

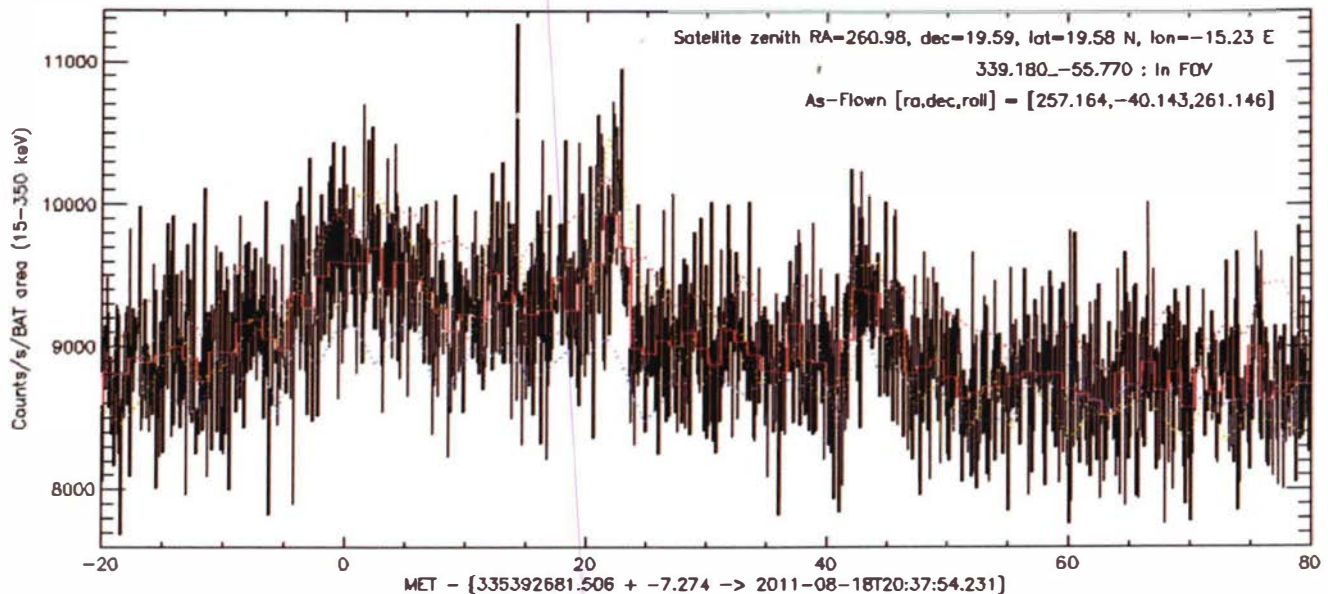
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 18 Aug 2011 20:50:33 -0600 (MDT)

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

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

/tmp/110818_2037.png



```
% /usr/local/bin/swinfo -o 335392681.505 -s 140.367 -73.283
Time(MET + UTCF -> UT): 335392681.506 + -7.274 -> 2011-08-18T20:37:54.231
Swift Zenith(RA,dec): 260.98, 19.59
Swift Location(lon,lat,alt): -15.23 E, 19.58 N, 579 km
Obs Sequence Number: 00035318017
Obs Target Name: 1RXSJ1708-4009_P1
Obs Date and Times: 2011-08-18 20:33:54 - 20:42:45
Obs Pointing(ra,dec,roll): 257.164, -40.143, 261.15
140.367_-73.283_imageloc (boresight_dist, angle): (59, -154)
140.367_-73.283_exposure (cm^2 cos adjusted): 213
140.367_-73.283_altitude: -4 (down)

% /usr/local/bin/swinfo -o 335392681.505 -s 194.460 -84.990
Time(MET + UTCF -> UT): 335392681.506 + -7.274 -> 2011-08-18T20:37:54.231
Swift Zenith(RA,dec): 260.98, 19.59
Swift Location(lon,lat,alt): -15.23 E, 19.58 N, 579 km
Obs Sequence Number: 00035318017
Obs Target Name: 1RXSJ1708-4009_P1
Obs Date and Times: 2011-08-18 20:33:54 - 20:42:45
Obs Pointing(ra,dec,roll): 257.164, -40.143, 261.15
194.460_-84.990_imageloc (boresight_dist, angle): (48, -165)
194.460_-84.990_exposure (cm^2 cos adjusted): 1748
194.460_-84.990_altitude: 6 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 335392681.505 -s 315.870 -60.040
Time(MET + UTCF -> UT): 335392681.506 + -7.274 -> 2011-08-18T20:37:54.231
Swift Zenith(RA,dec): 260.98, 19.59
Swift Location(lon,lat,alt): -15.23 E, 19.58 N, 579 km
Obs Sequence Number: 00035318017
Obs Target Name: 1RXSJ1708-4009_P1
Obs Date and Times: 2011-08-18 20:33:54 - 20:42:45
Obs Pointing(ra,dec,roll): 257.164, -40.143, 261.15
315.870_-60.040_imageloc (boresight_dist, angle): (41, 148)
315.870_-60.040_exposure (cm^2 cos adjusted): 1437
315.870_-60.040_altitude: 22 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 335392681.505 -s 339.180 -55.770
Time(MET + UTCF -> UT): 335392681.506 + -7.274 -> 2011-08-18T20:37:54.231
Swift Zenith(RA,dec): 260.98, 19.59
```

[ipn] BAT lightcurve for trigger at 110818_2037

Swift Location(lon,lat,alt): -15.23 E, 19.58 N, 579 km
Obs Sequence Number: 00035318017
Obs Target Name: 1RXSJ1708-4009_P1
Obs Date and Times: 2011-08-18 20:33:54 - 20:42:45
Obs Pointing(ra,dec,roll): 257.164, -40.143, 261.15
339.180_-55.770_imageloc (boresight_dist, angle): (54, 145)
339.180_-55.770_exposure (cm² cos adjusted): 112
339.180_-55.770_altitude: 14 (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

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

/tmp/110818_2037.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110818_2037_bat64ms_ipn

/tmp/110818_2037_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

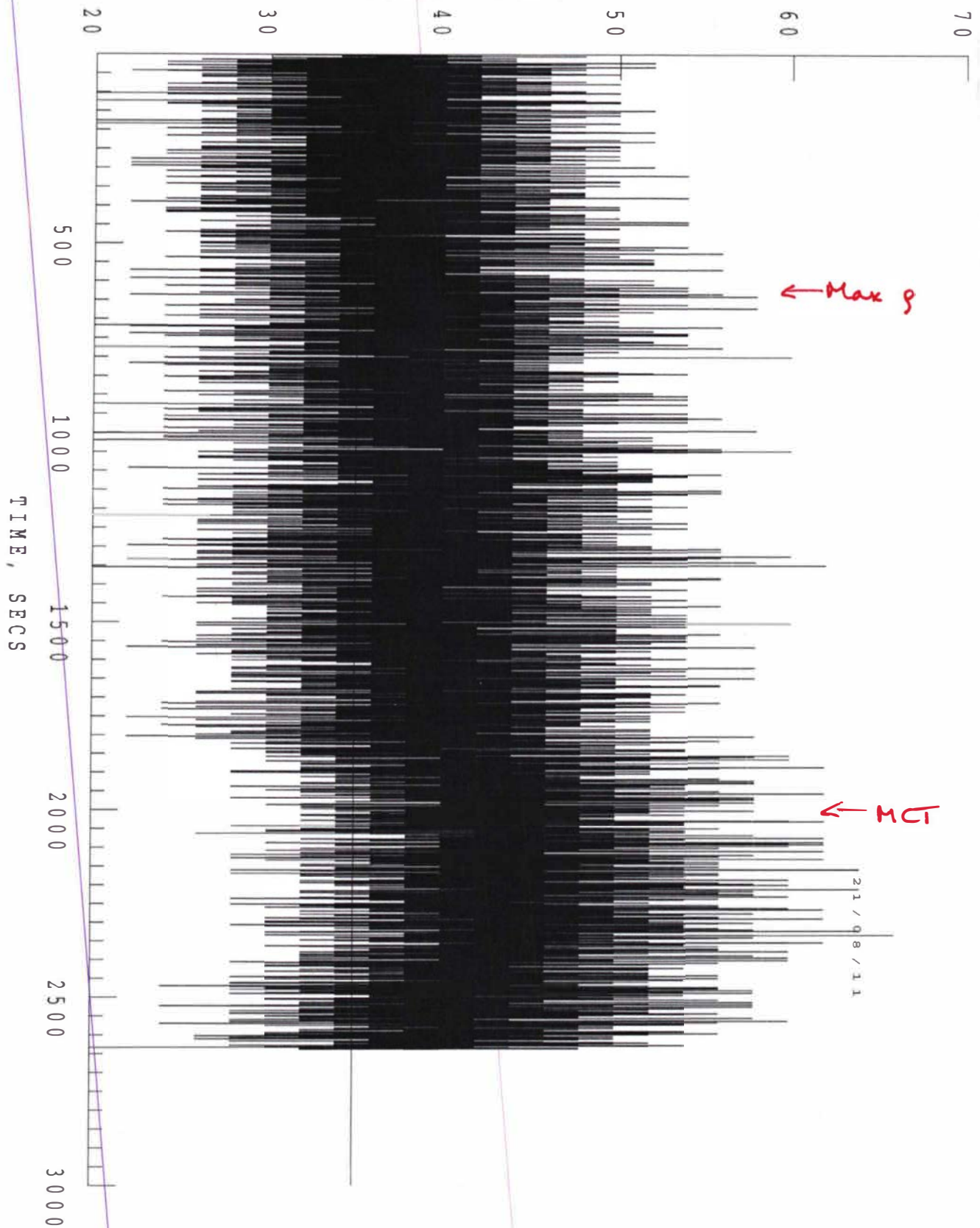
MS01

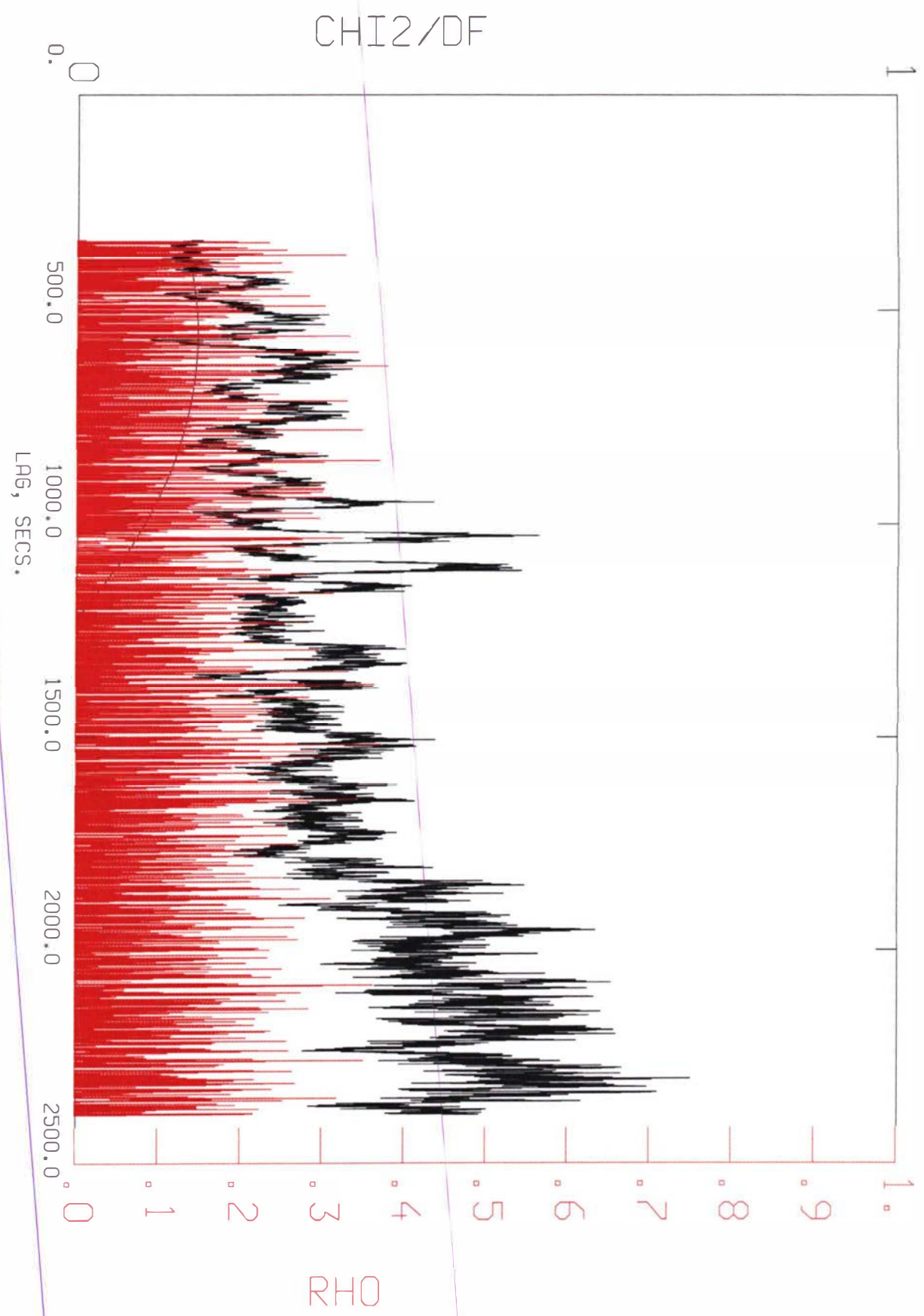
18/08/11

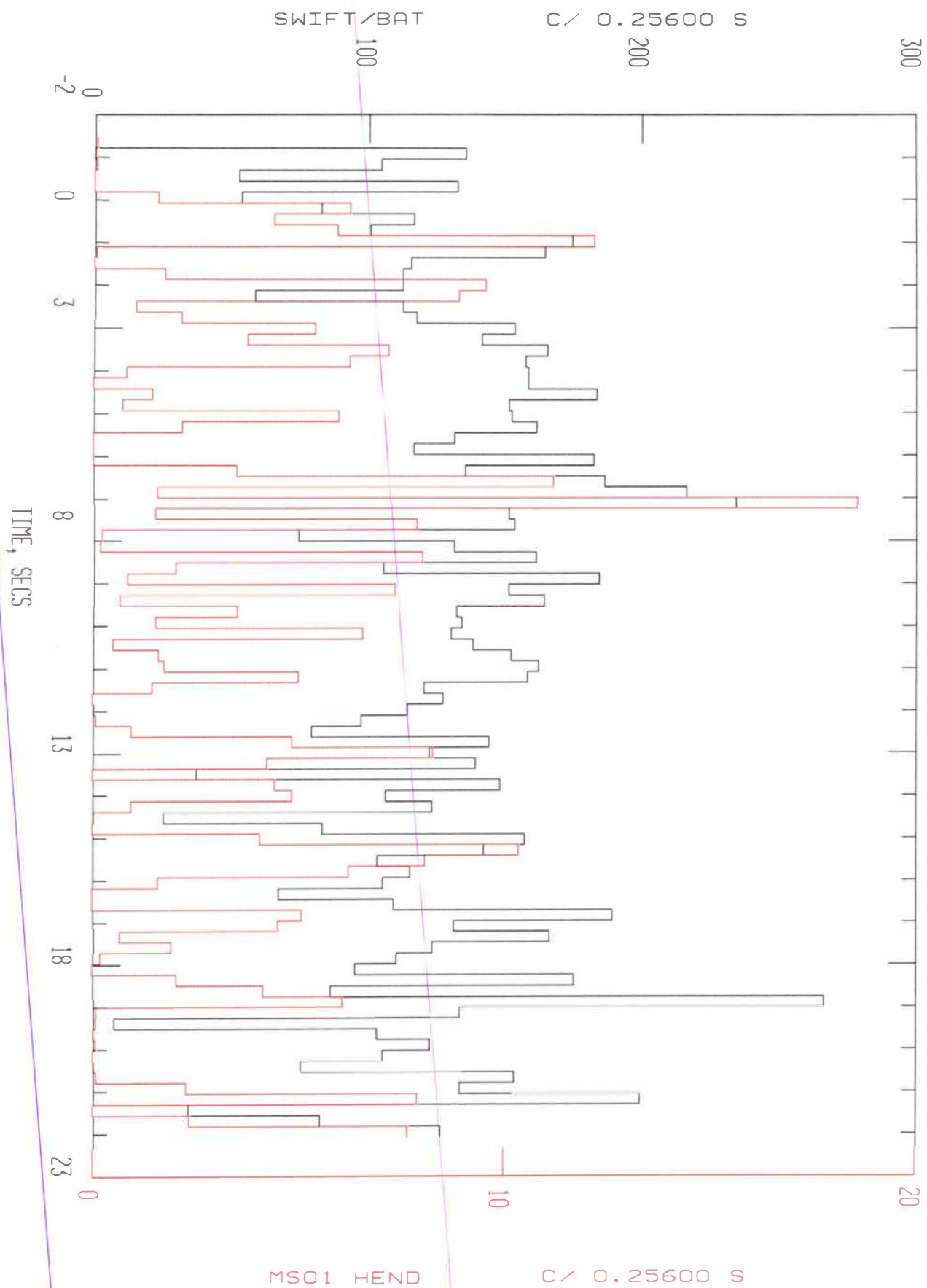
72908.398

50 - 3000 keV

COUNTS/0.250 S





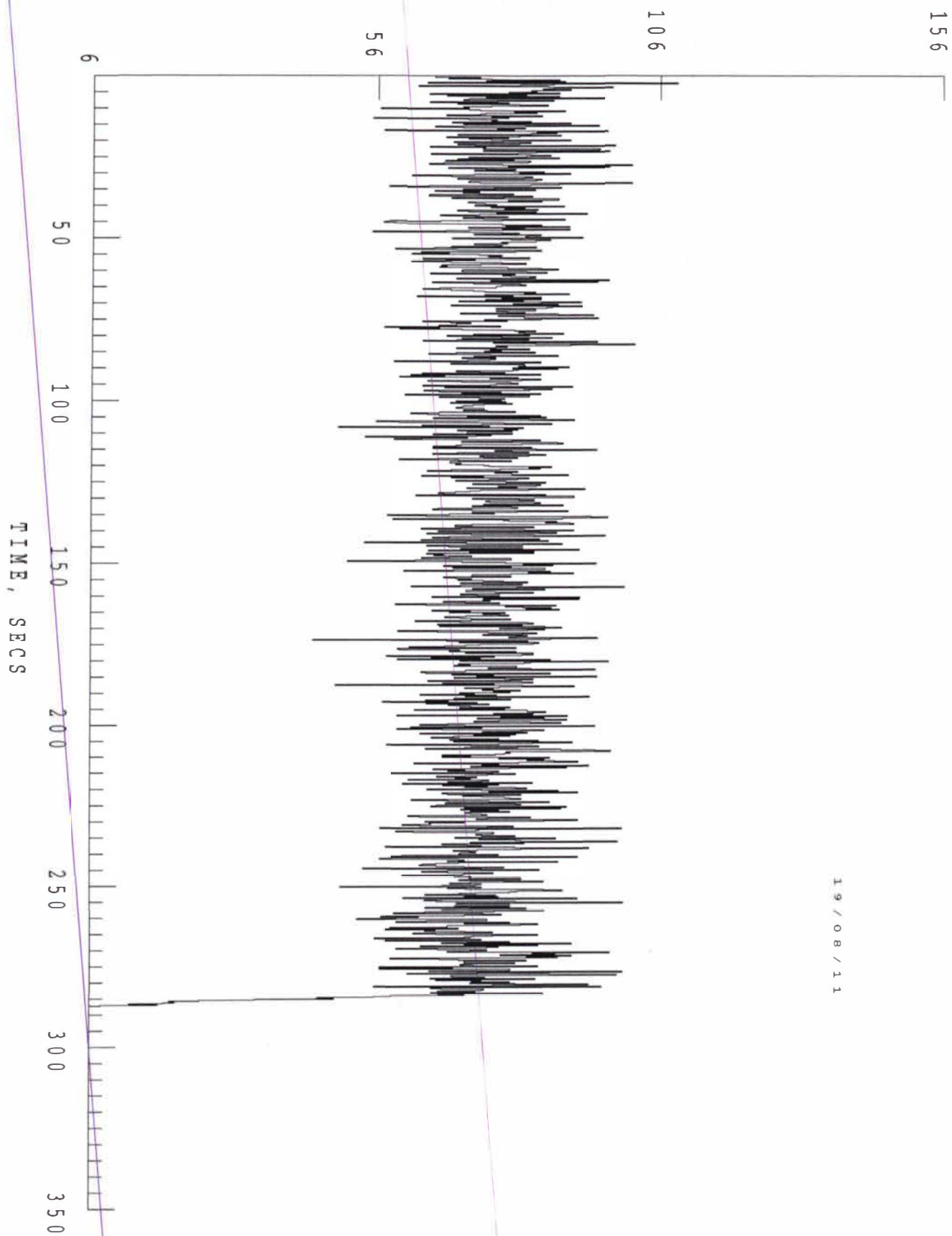


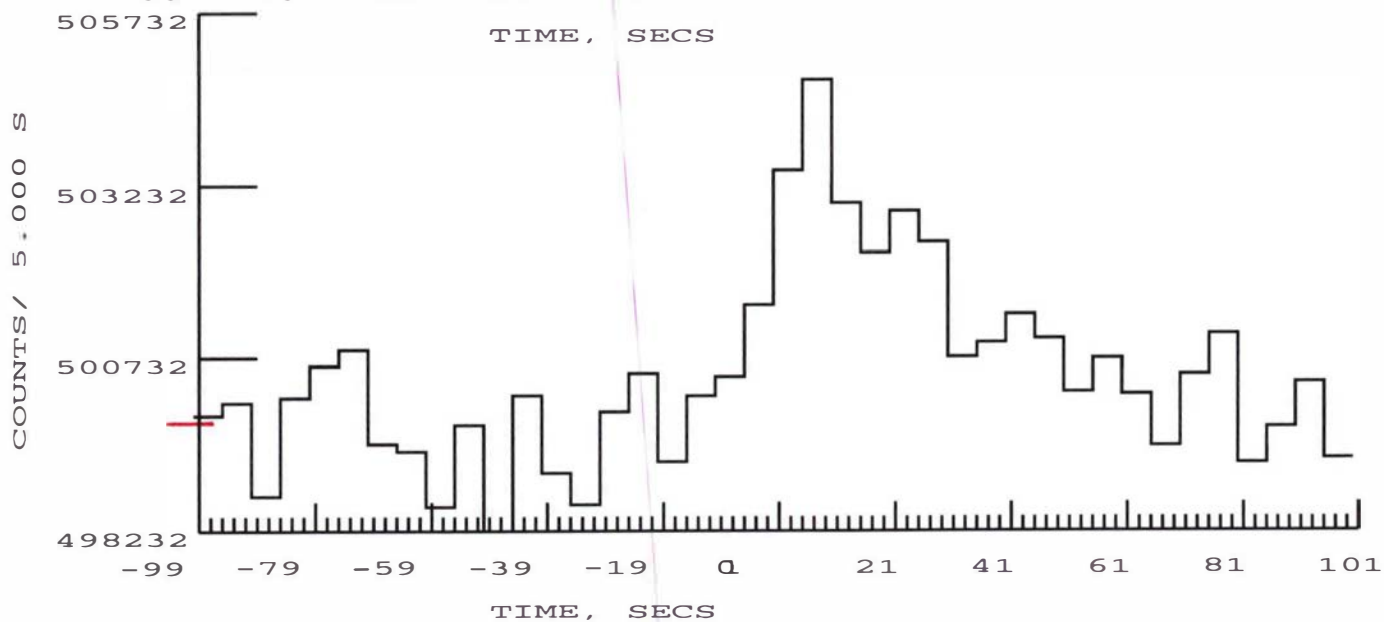
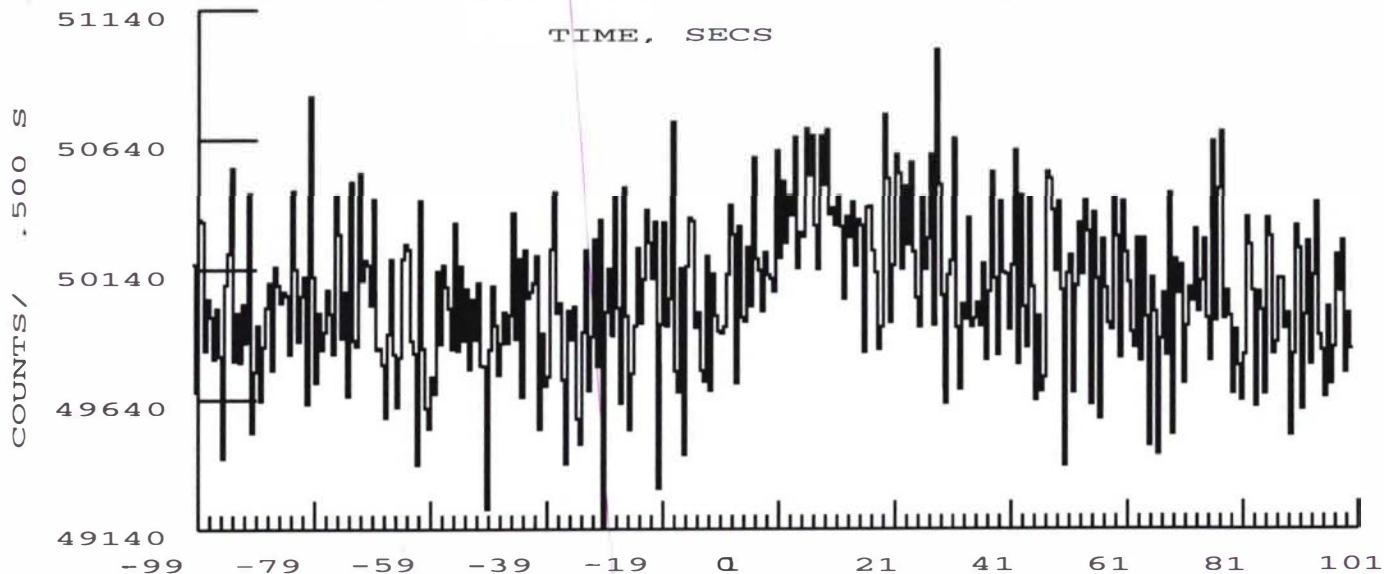
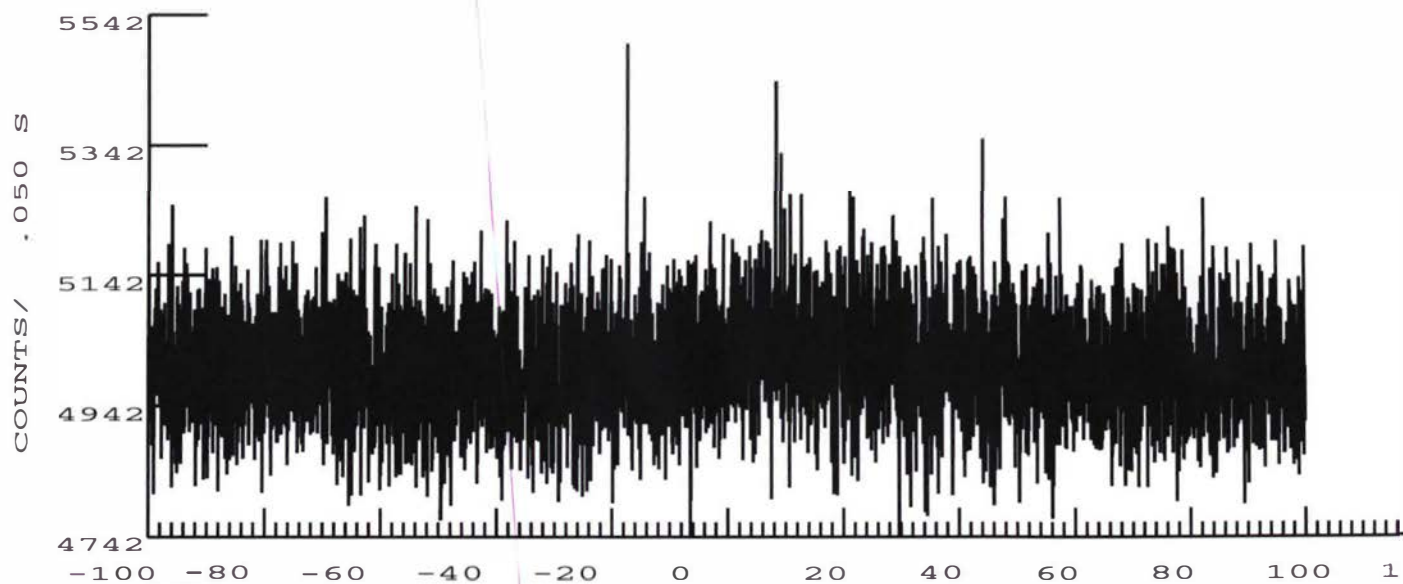
HESSI

18/08/11 74119.000 (SWIFT_20110818_74269)

25- 150 keV

COUNTS/0.250 S





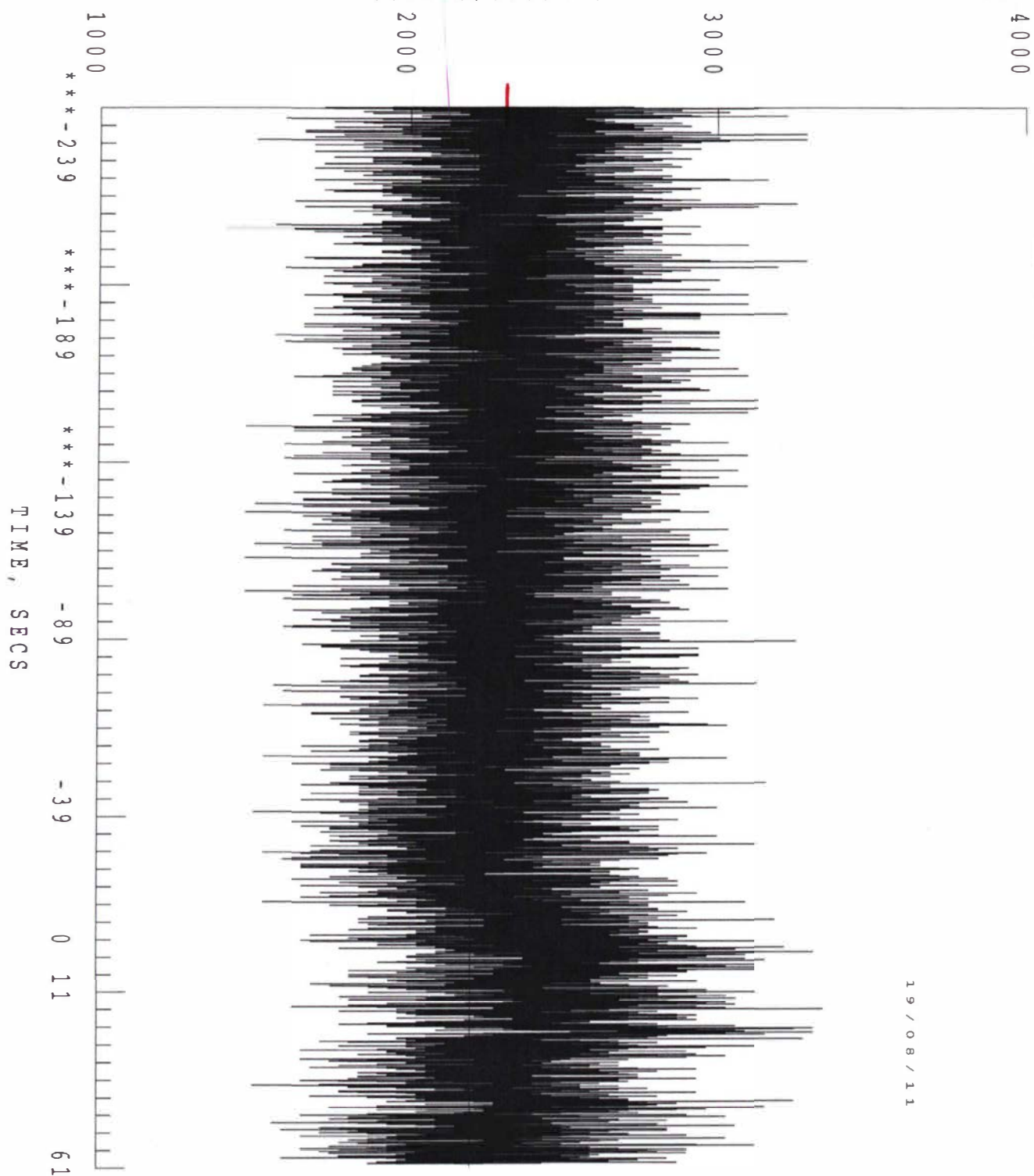
GLAST

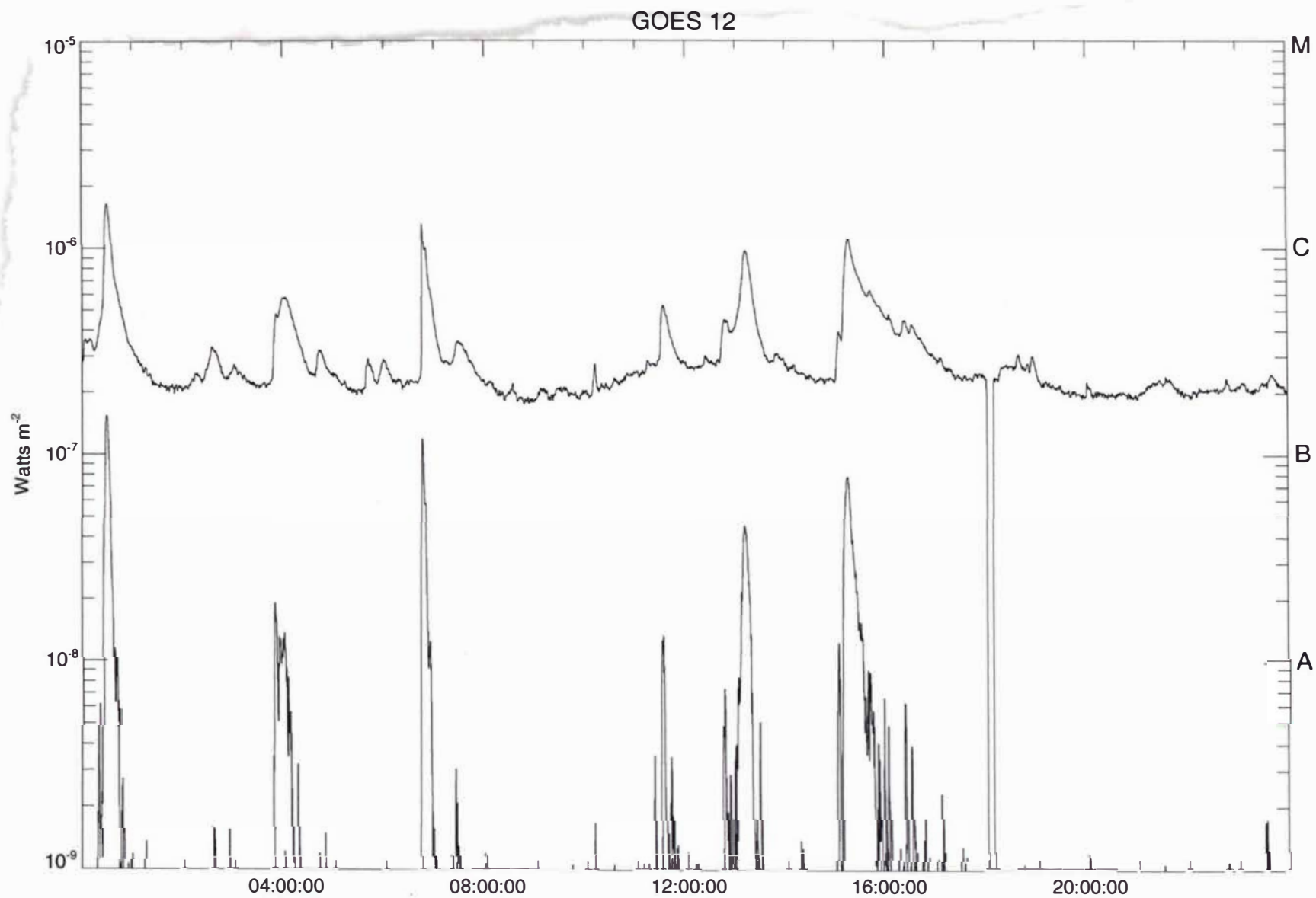
18/08/11

74274.221

26- 293 keV

COUNTS/0.032 S





Data Start: 11/08/18, 0000:09

Plot created: 11/08/21, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: _____

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?

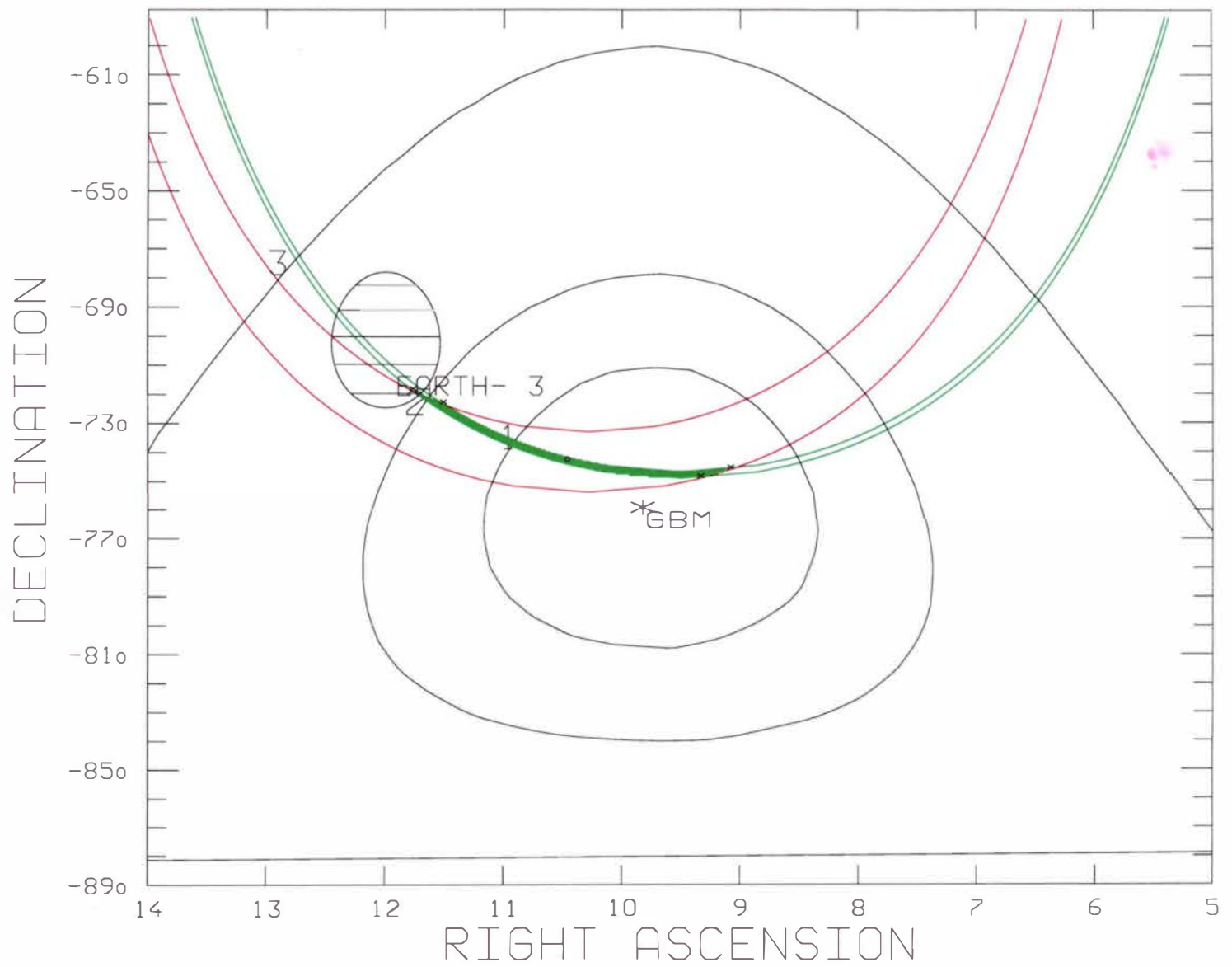
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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/spiaccs-online/spiaccs-ipnlc.pl>)

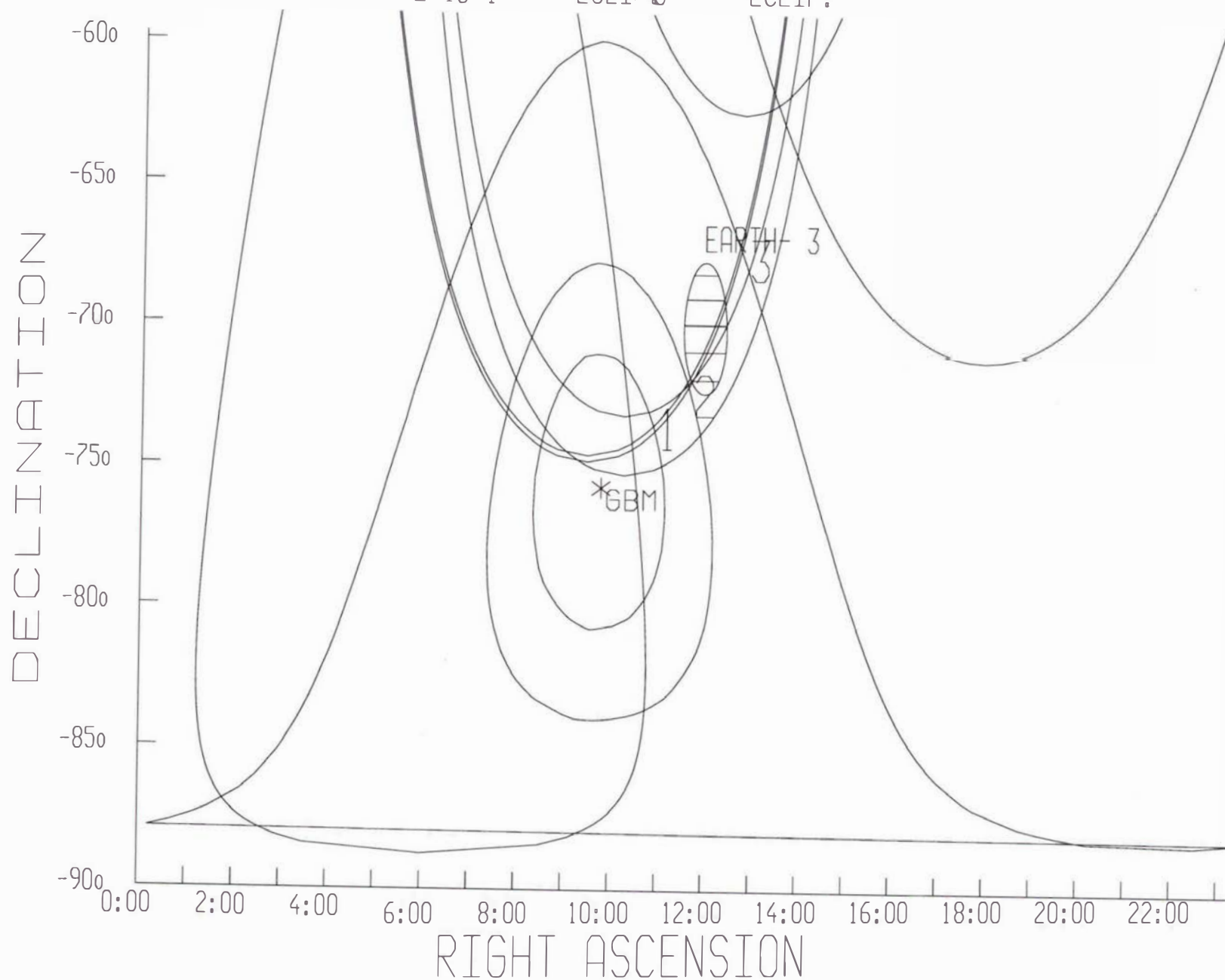
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

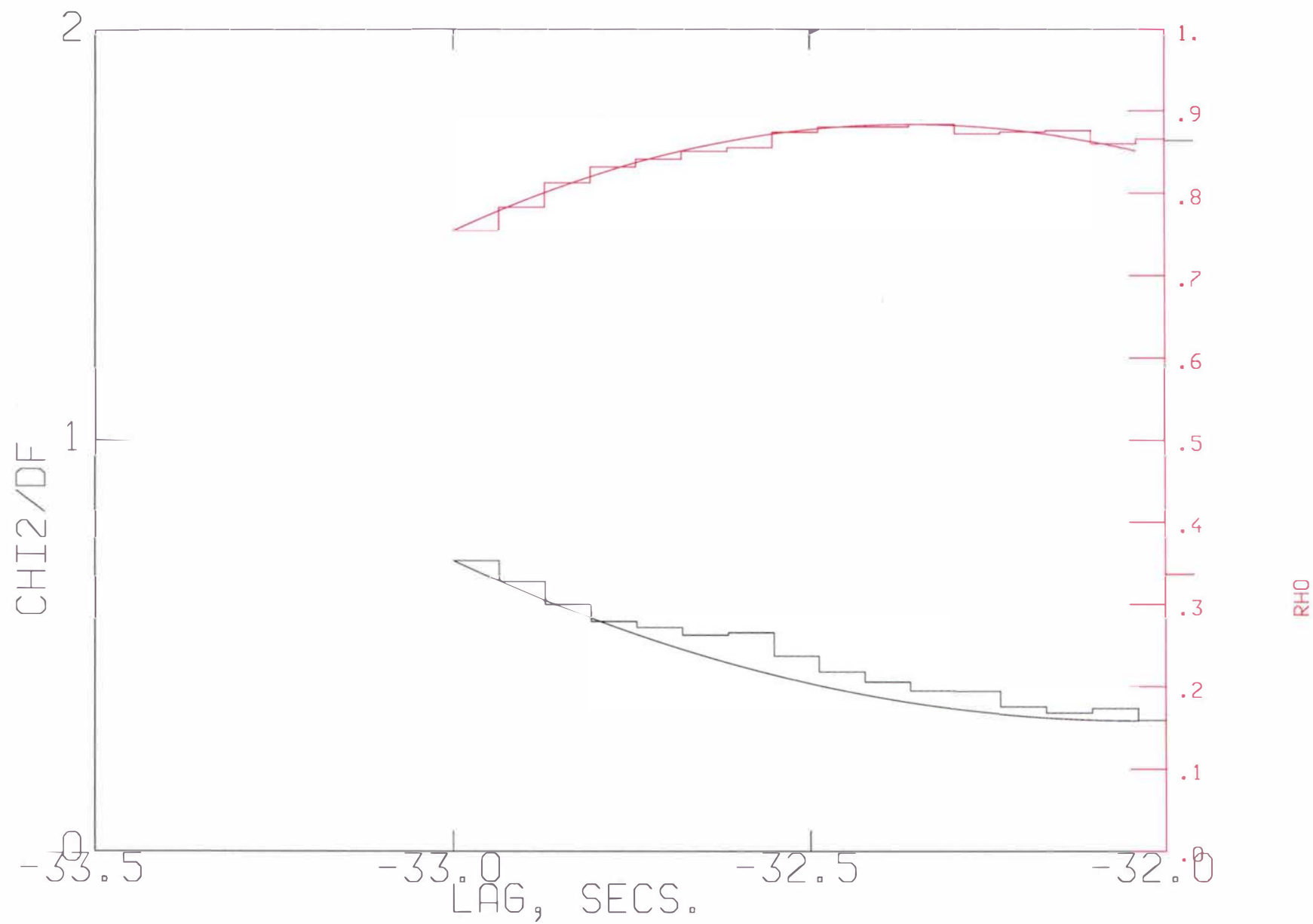


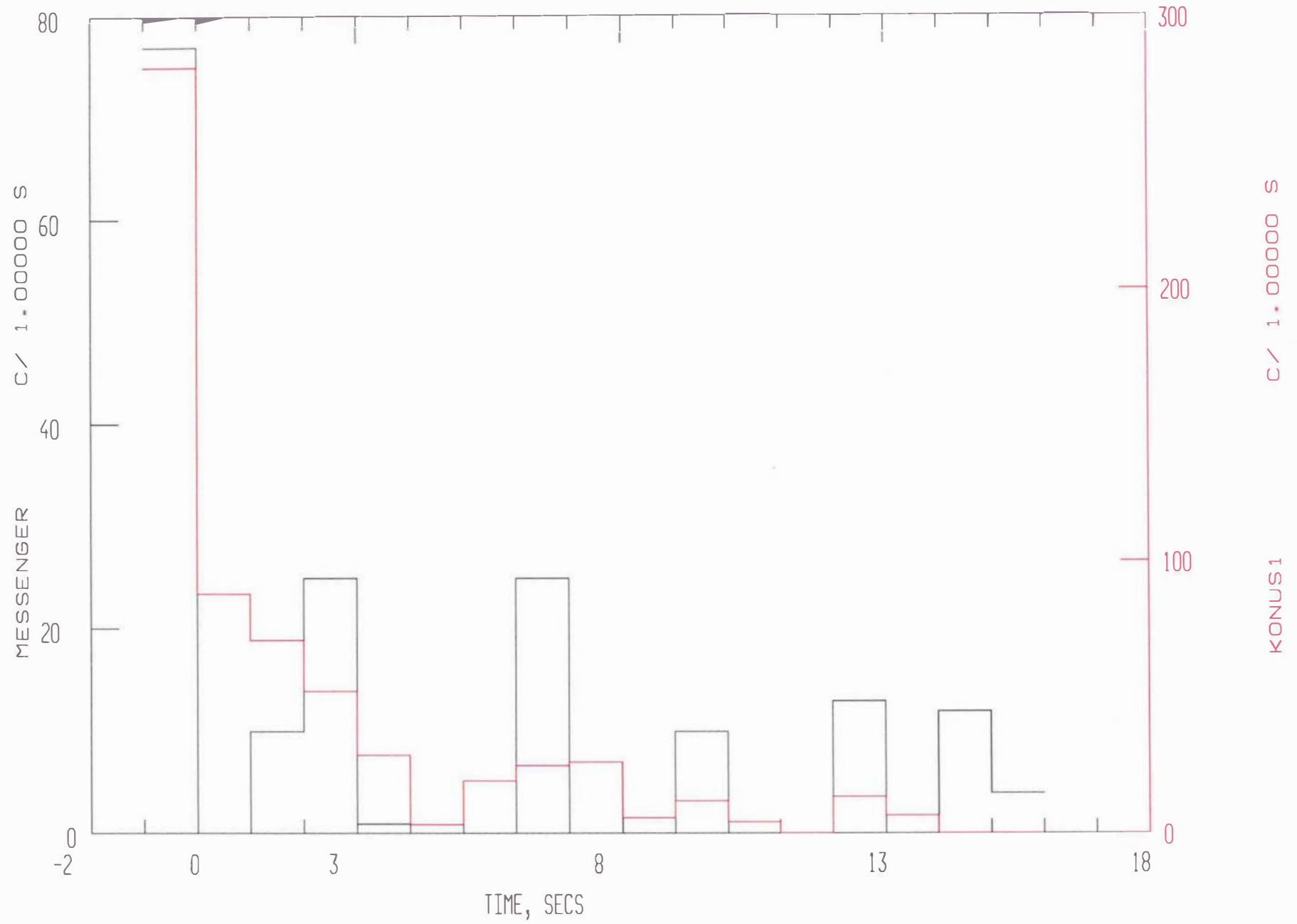
EVENT OF AUG 19, 2011 15:57

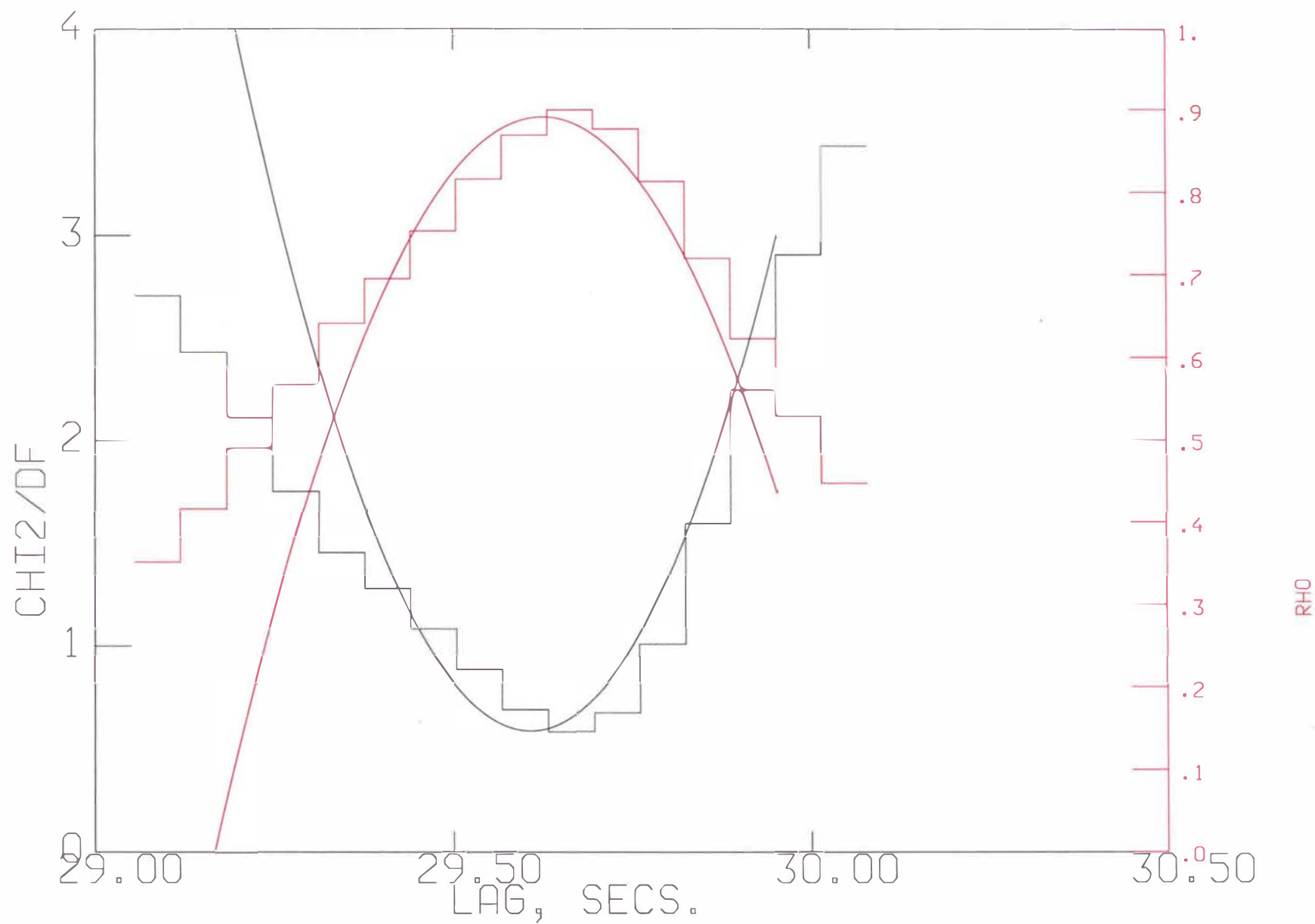
20/07/2016

N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN
 E=ECLIPTIC
 G=GALACTIC EQUATOR
 1 KONUS1
 2 MESSENGER 3 INTEGRAL









KONUS1

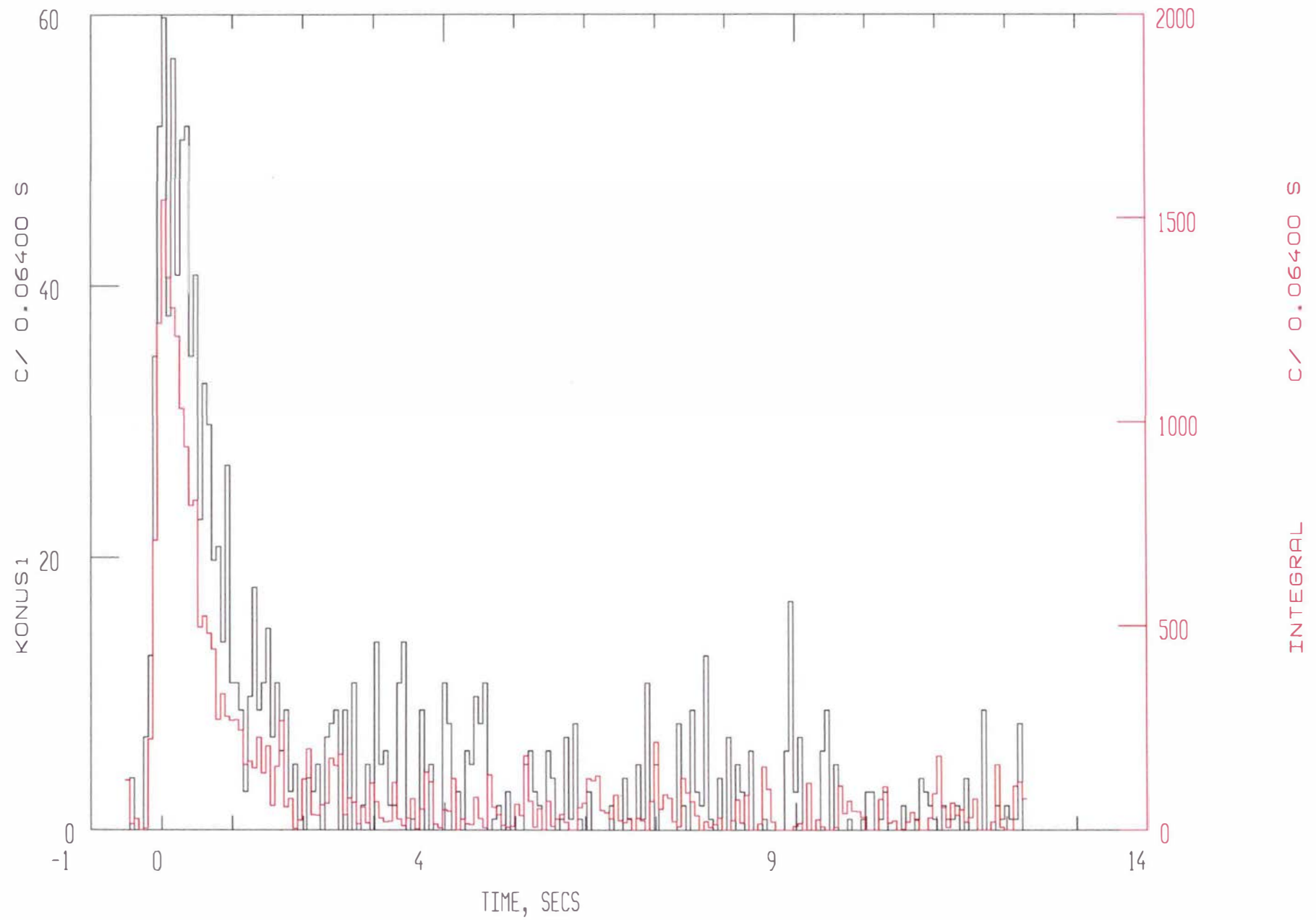
-INTEGRAL

CORRELATION

19/08/11

57474.138

20/ 7/16



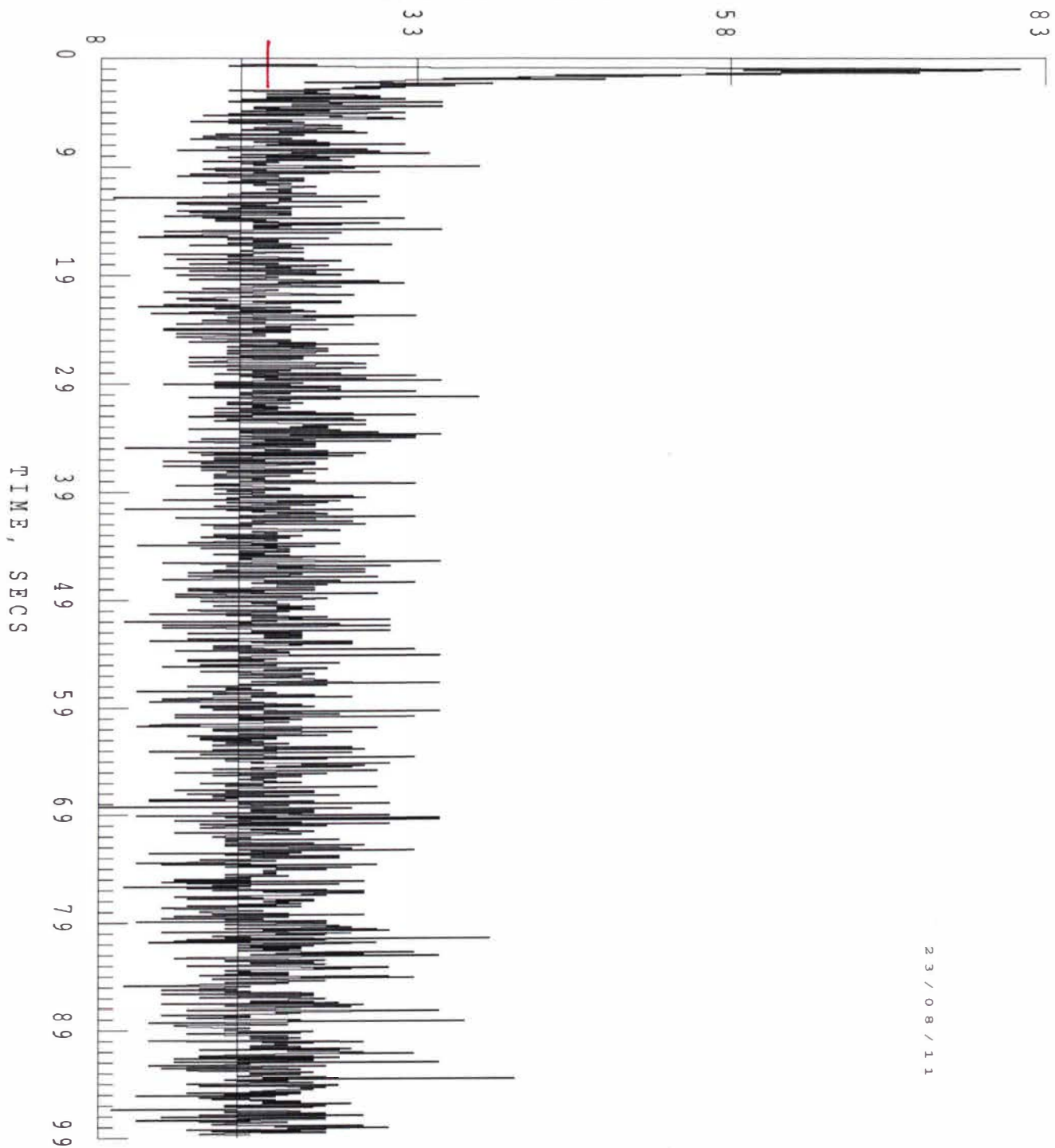
KONUS1

19/08/11

57474.138

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110819 57474

TRIGGER TIME: 19/08/11 DOY 231 Julian 2455794.16521 UT = 15.965 15:57:54 (57474.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

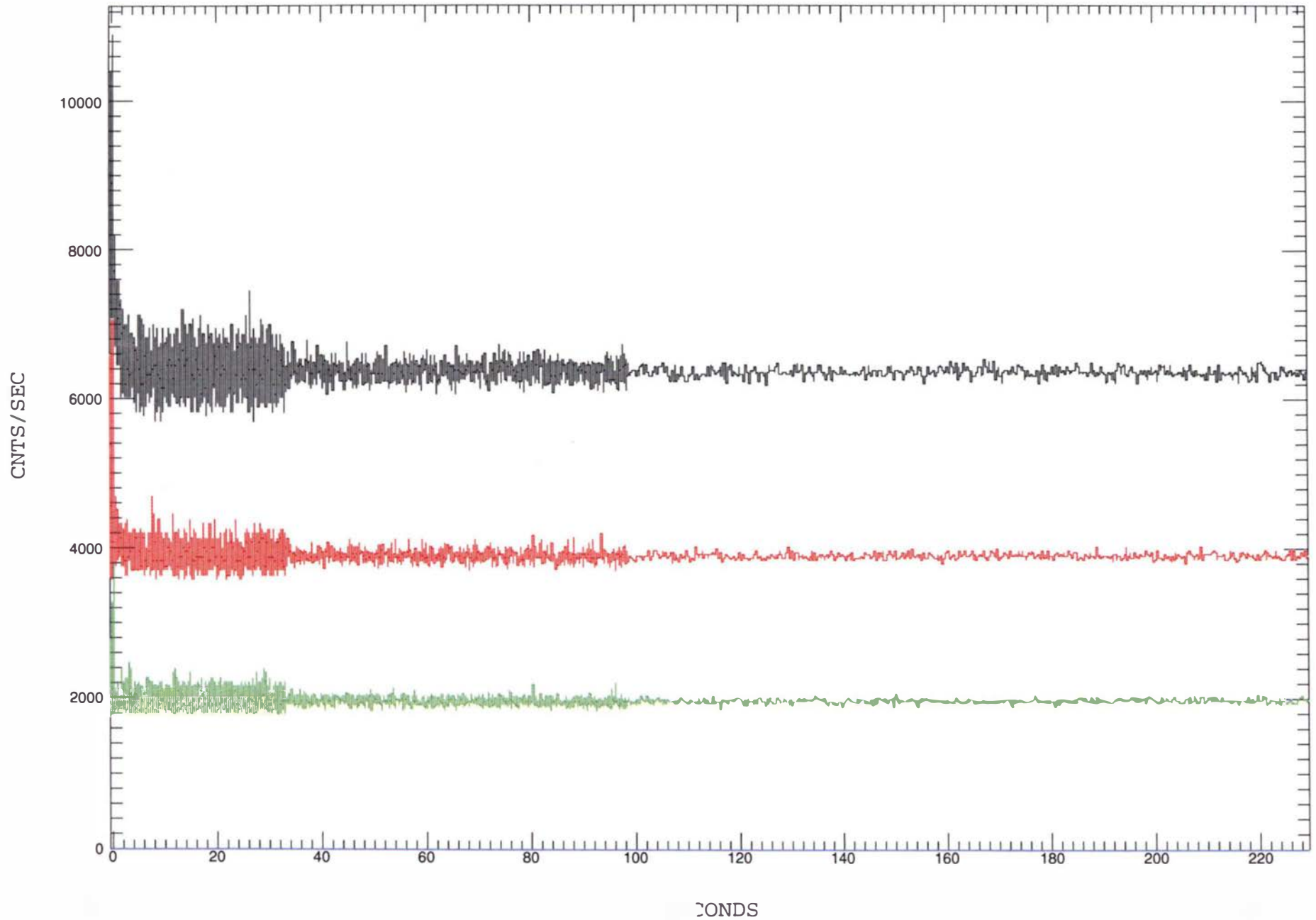
Chan 4 : [> 10 MeV]

Channel 1 + 5400

Channel 2 + 3600

Channel 3 + 1800

Channel 4 + 0

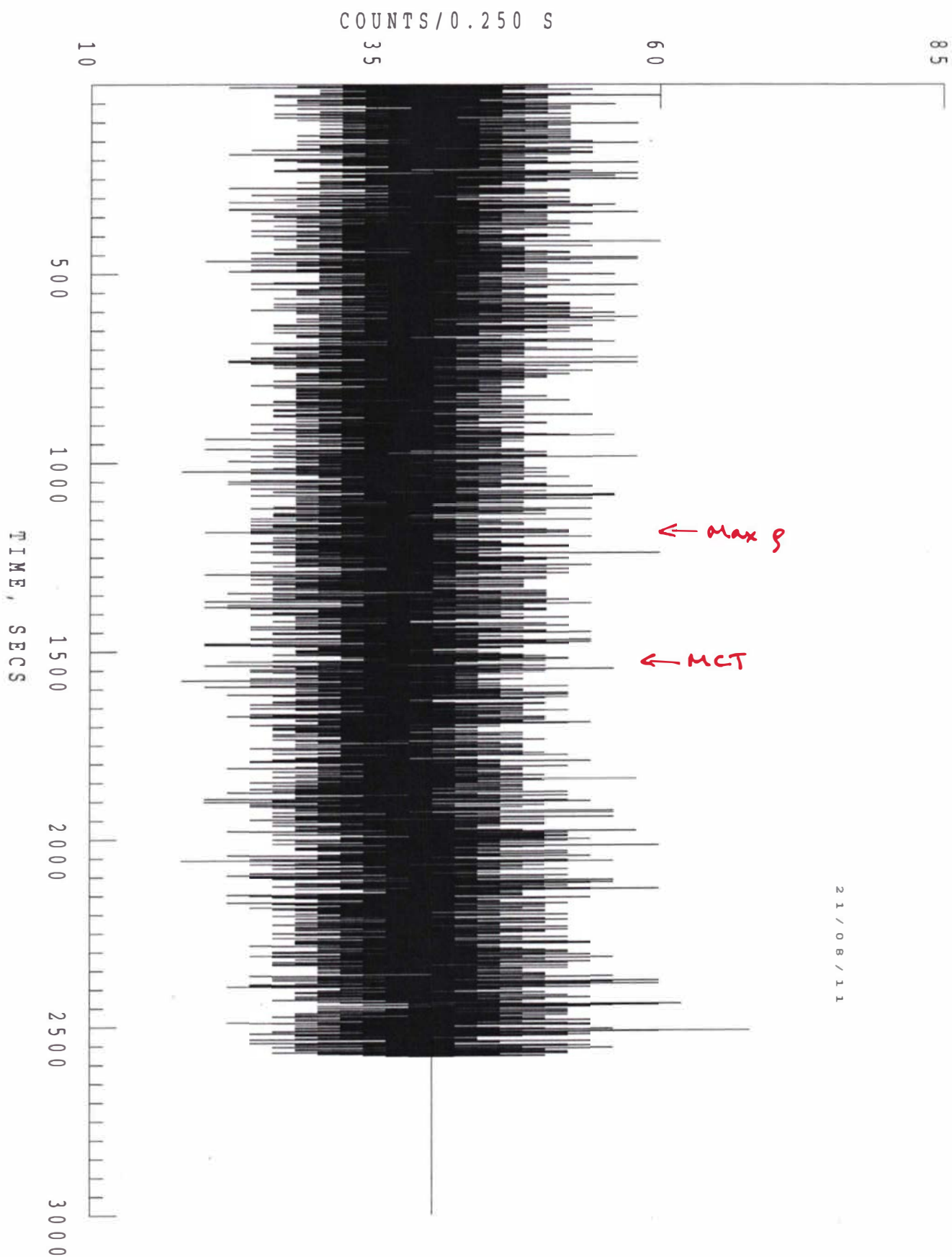


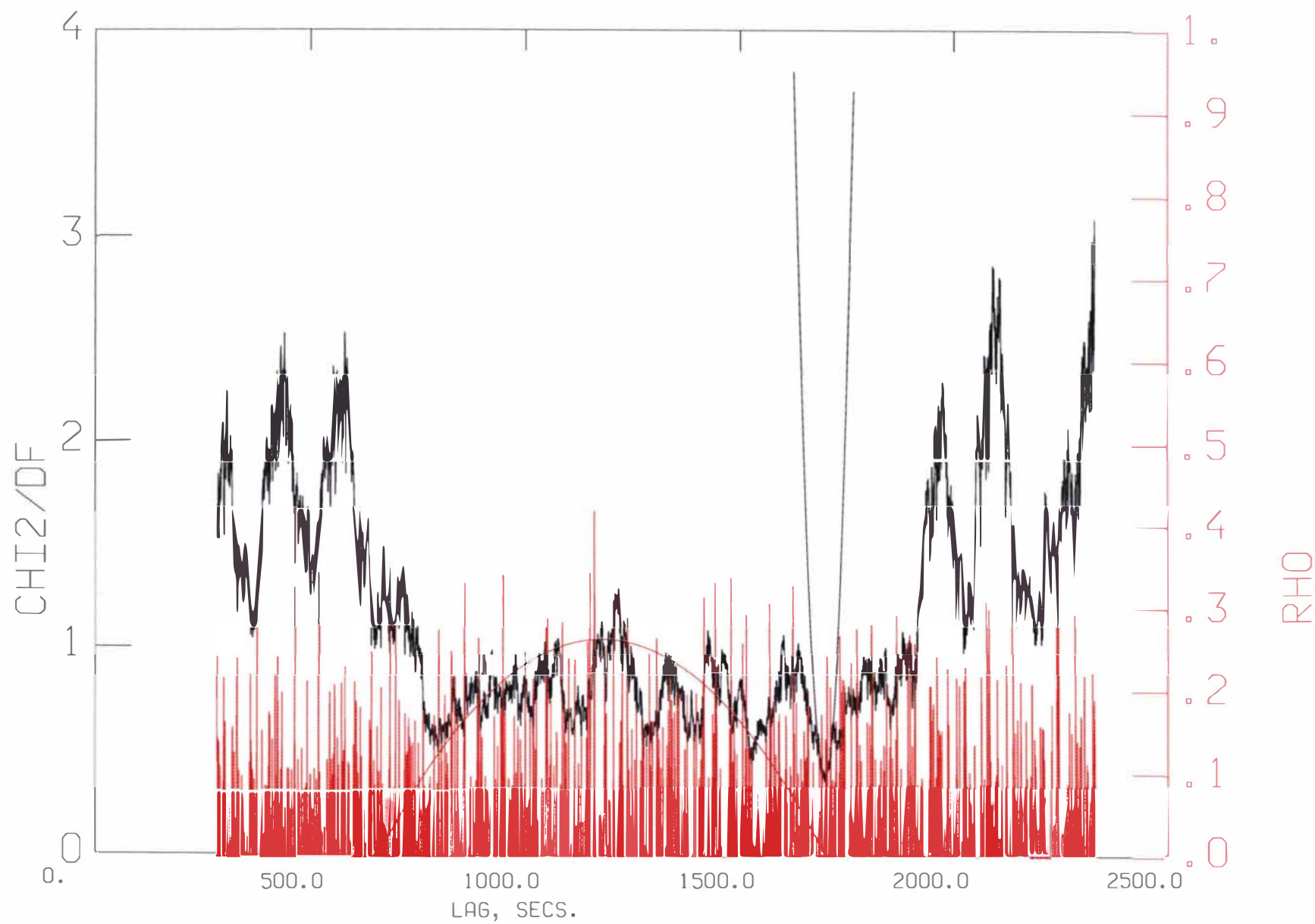
MS01

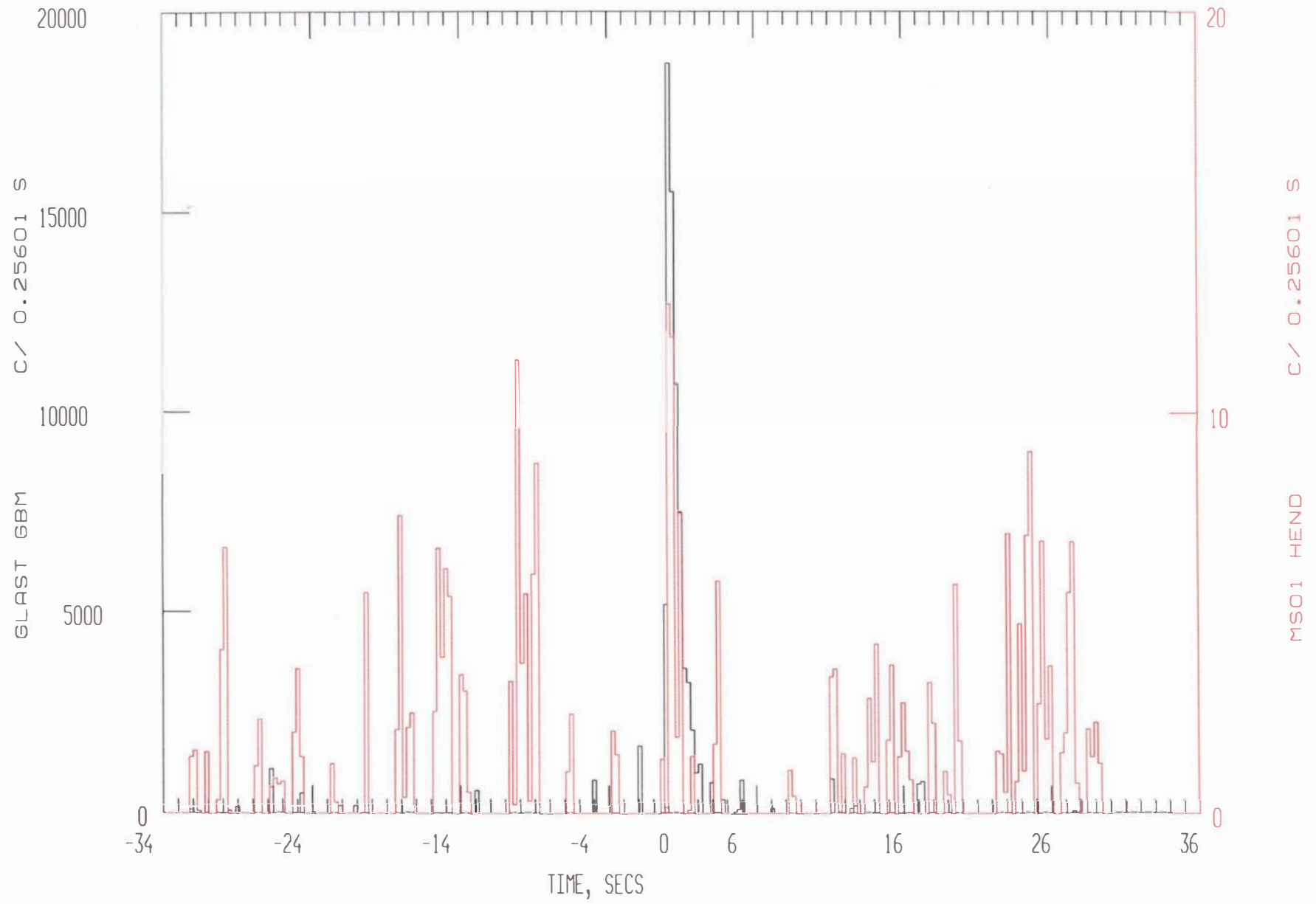
19/08/11

56167.221

50 - 3000 keV







From williams@gammaburst.ssl.berkeley.edu Wed Aug 24 23:03:51 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Wed, 24 Aug 2011 23:03:09 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GLAST_20110819_57474
X-Ucb-Scan-Signature: ae94c78bdfa68225ae1bf159752e96acf4d9a73e
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.532'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 24-Aug-2011 23:03:46.00
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

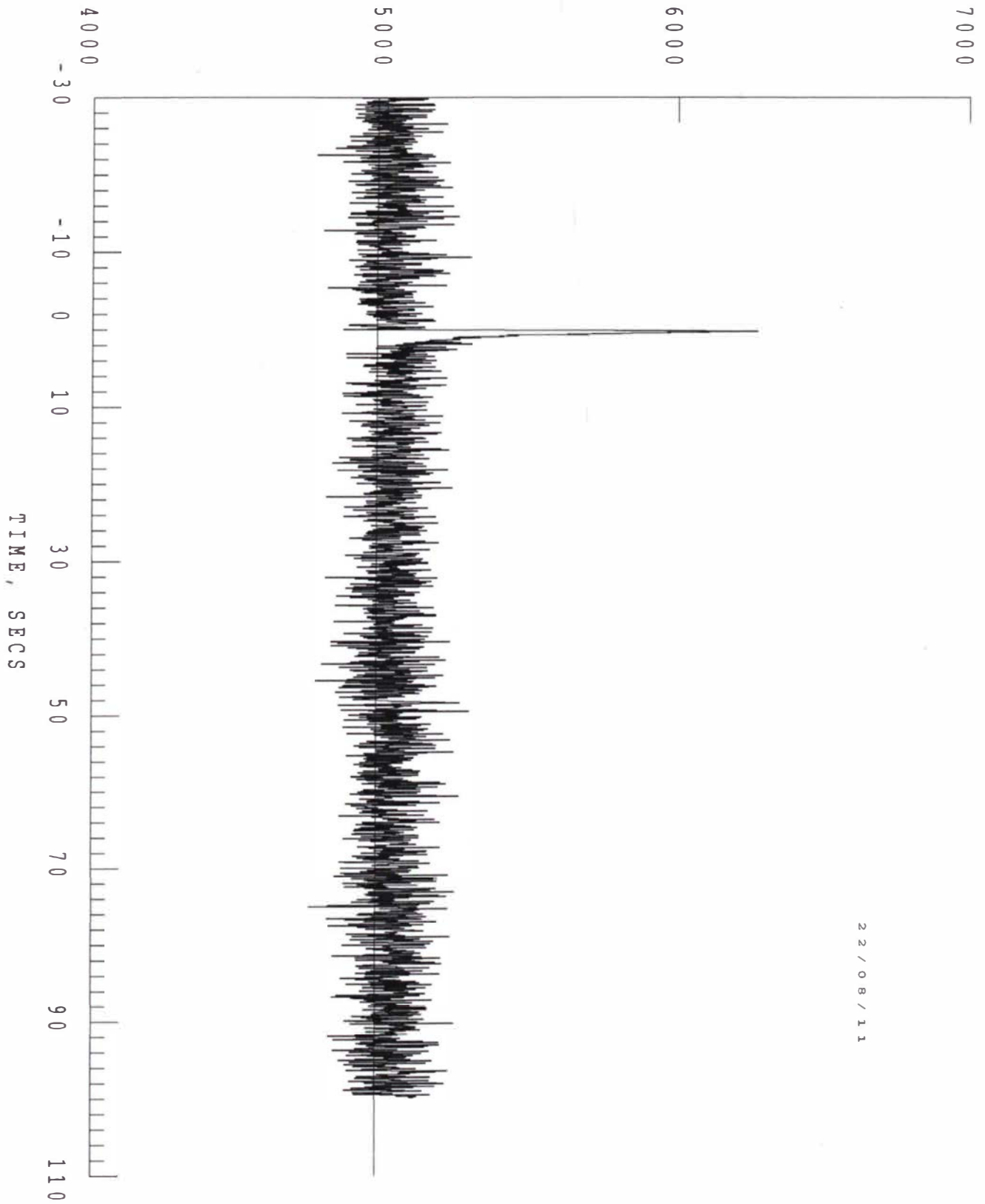
INTEGRAL

19/08/11

57475.303

100-10000 keV

COUNTS/0.050 S



22/08/11

Subject: [lpn] BAT lightcurve for trigger at 110819_1557

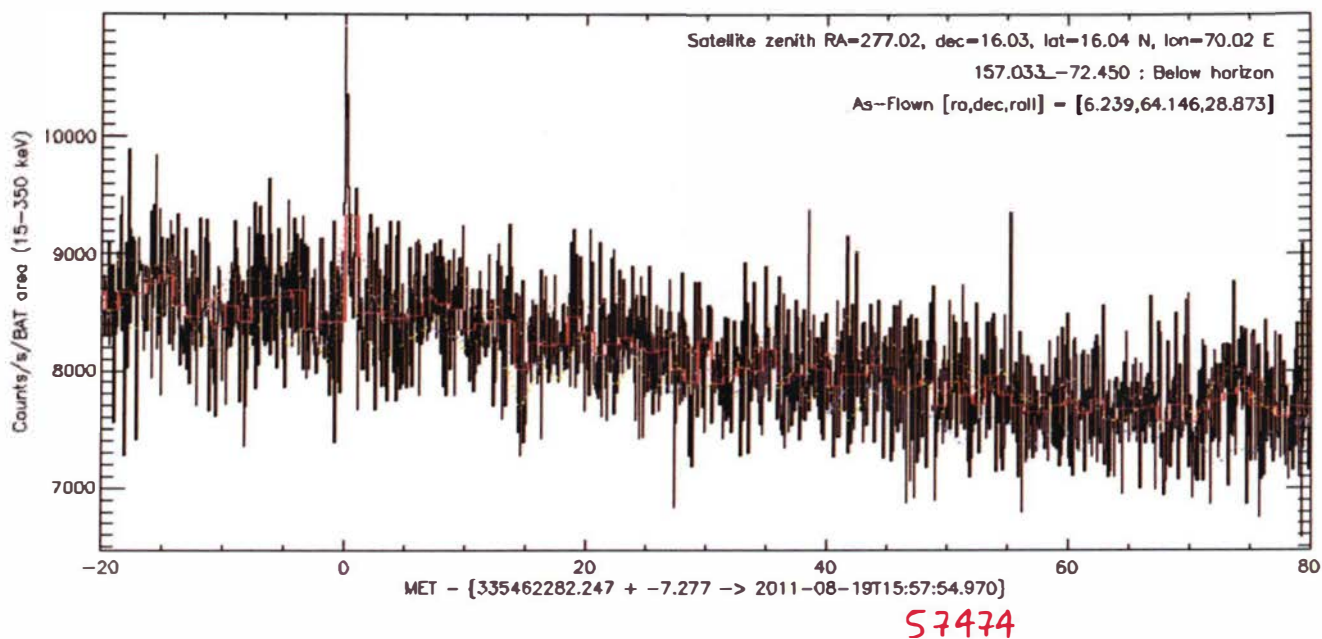
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 19 Aug 2011 20:43:16 -0600 (MDT)

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

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

/tmp/110819_1557.png



```
% /usr/local/bin/swinfo -o 335462281.415
Time(MET + UTCF -> UT): 335462281.415 + -7.277 -> 2011-08-19T15:57:54.138
Swift Zenith(RA,dec): 277.02, 16.03
Swift Location(lon,lat,alt): 70.02 E, 16.04 N, 577 km
Obs Sequence Number: 00059072015
Obs Target Name: Tycho SNR
Obs Date and Times: 2011-08-19 15:55:54 - 16:00:51
Obs Pointing(ra,dec,roll): 6.239, 64.146, 28.87
```

```
% /usr/local/bin/swinfo -o 335462282.247 -s 145.400 -74.830
Time(MET + UTCF -> UT): 335462282.247 + -7.277 -> 2011-08-19T15:57:54.970
Swift Zenith(RA,dec): 277.02, 16.03
Swift Location(lon,lat,alt): 70.02 E, 16.04 N, 577 km
Obs Sequence Number: 00059072015
Obs Target Name: Tycho SNR
Obs Date and Times: 2011-08-19 15:55:54 - 16:00:51
Obs Pointing(ra,dec,roll): 6.239, 64.146, 28.87
145.400-74.830_imageloc (boresight_dist, angle): (163, 26)
145.400-74.830_exposure (cm2 cos adjusted): 0
145.400-74.830_altitude: -2 (down)
```

```
% /usr/local/bin/swinfo -o 335462282.247 -s 157.033 -72.450
Time(MET + UTCF -> UT): 335462282.247 + -7.277 -> 2011-08-19T15:57:54.970
Swift Zenith(RA,dec): 277.02, 16.03
Swift Location(lon,lat,alt): 70.02 E, 16.04 N, 577 km
Obs Sequence Number: 00059072015
Obs Target Name: Tycho SNR
Obs Date and Times: 2011-08-19 15:55:54 - 16:00:51
Obs Pointing(ra,dec,roll): 6.239, 64.146, 28.87
157.033-72.450_imageloc (boresight_dist, angle): (167, 22)
157.033-72.450_exposure (cm2 cos adjusted): 0
157.033-72.450_altitude: -1 (down)
```

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

[Ipn] BAT lightcurve for trigger at 110819_1557

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

/tmp/110819_1557.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110819_1557_bat64ms_ipn

/tmp/110819_1557_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

29/09/11

MESSENGER

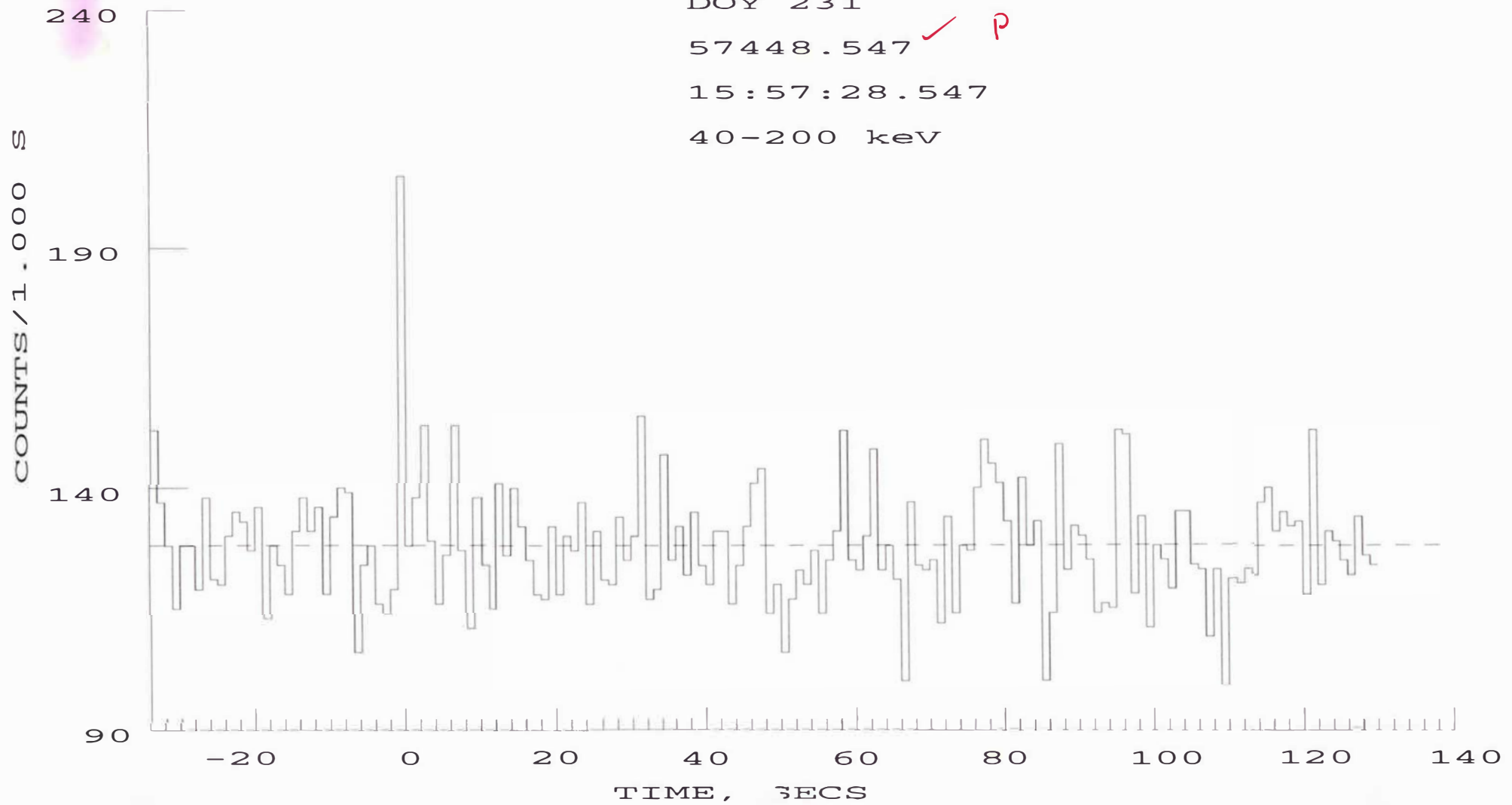
19/08/11

DOY 231

57448.547 ✓ P

15:57:28.547

40-200 keV



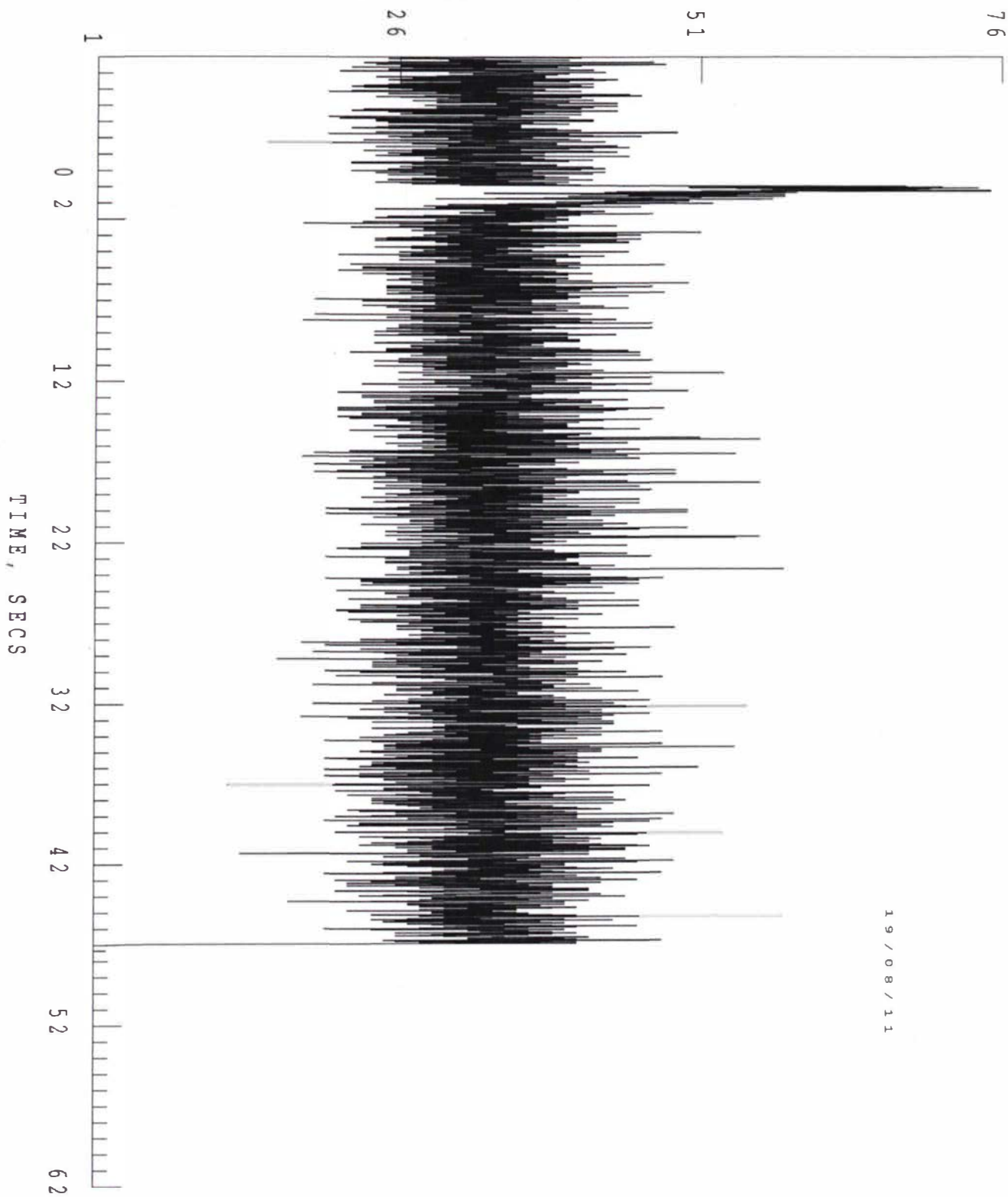
SUZAKU

19/08/11

57474.976

50 - 240 keV

COUNTS/0.016 S



19/08/11

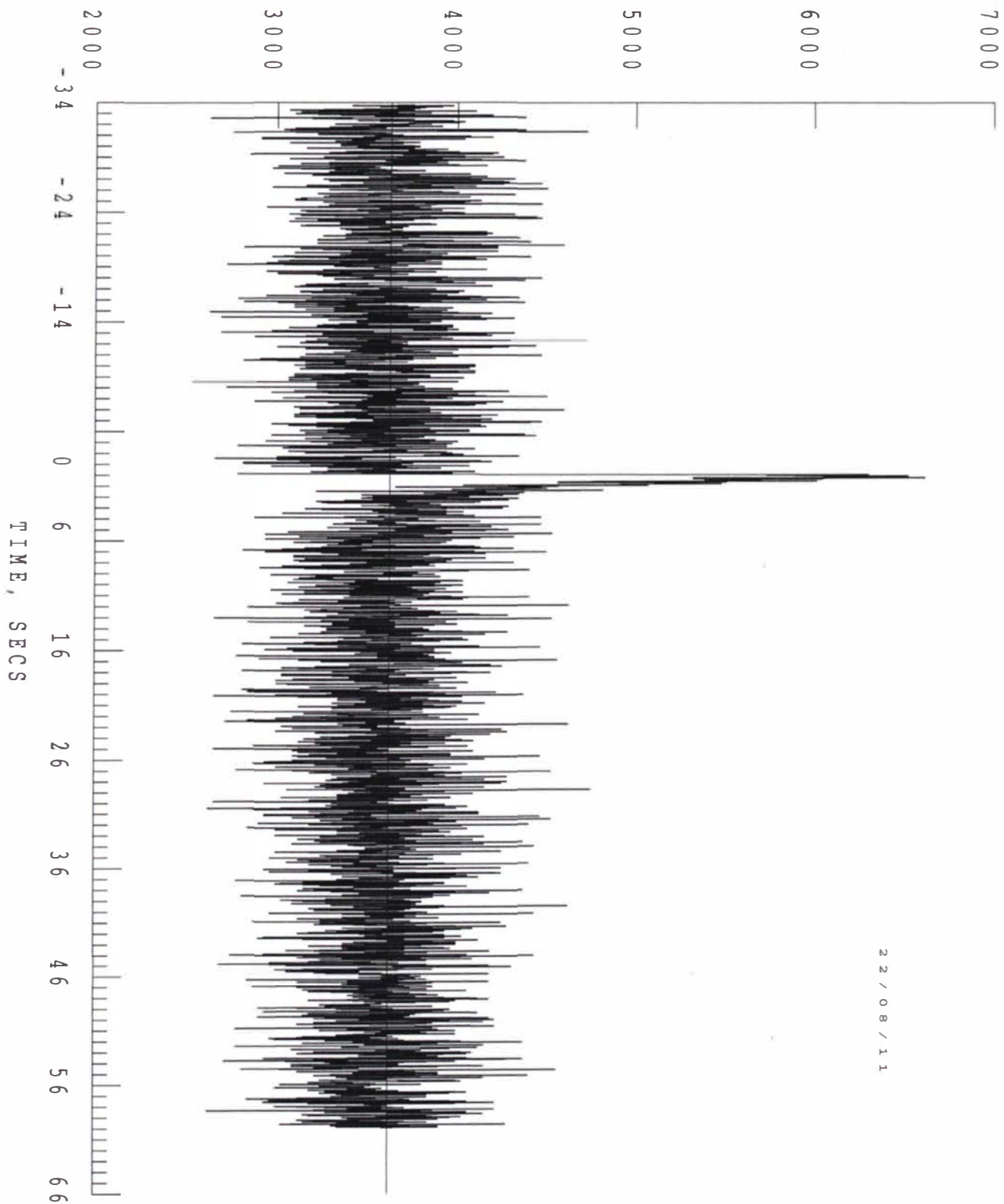
GLAST

19/08/11

57474.972

26- 293 keV

COUNTS/0.032 S



22/08/11

29/09/11

MESSENGER

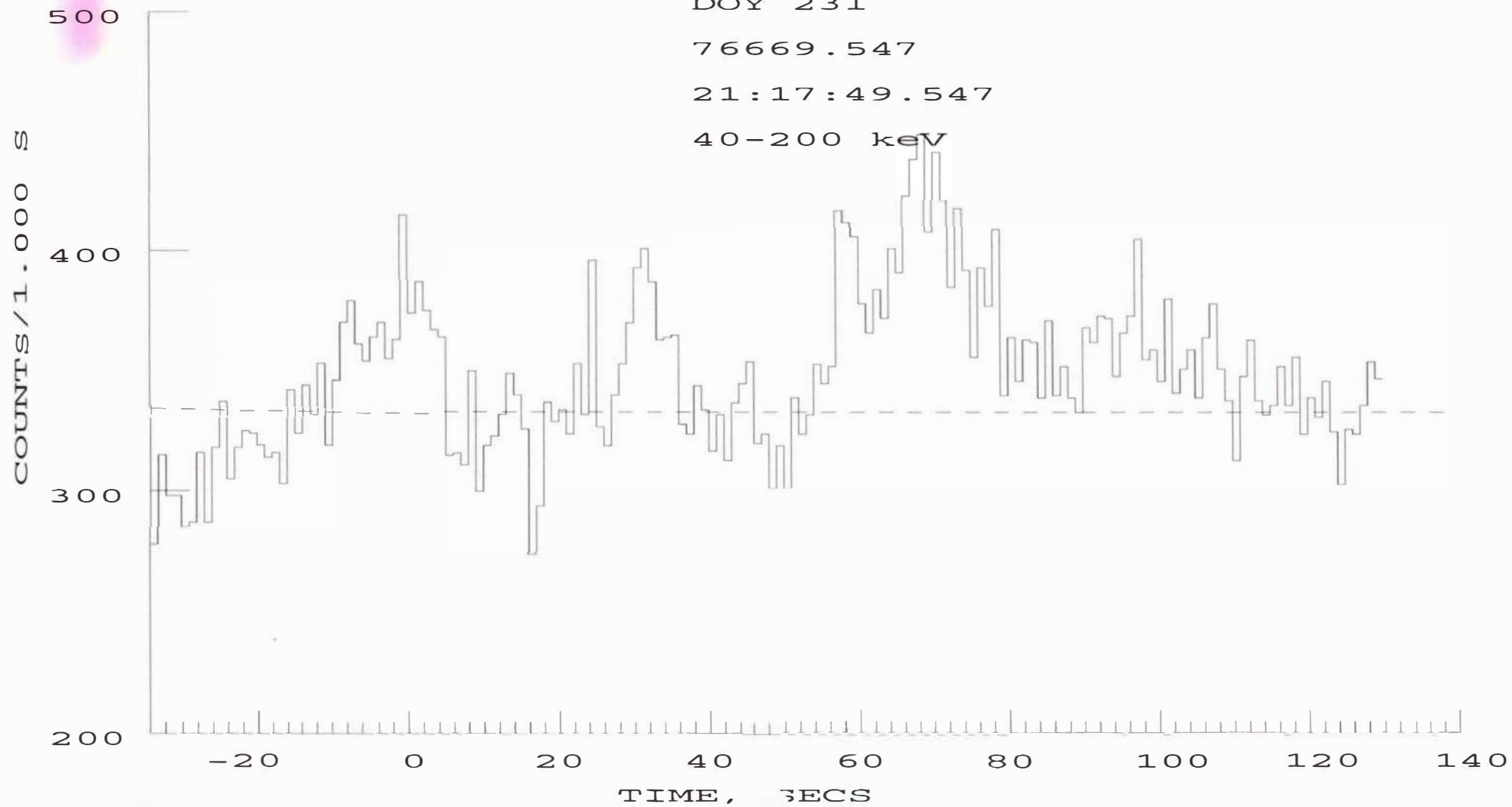
19/08/11

DOY 231

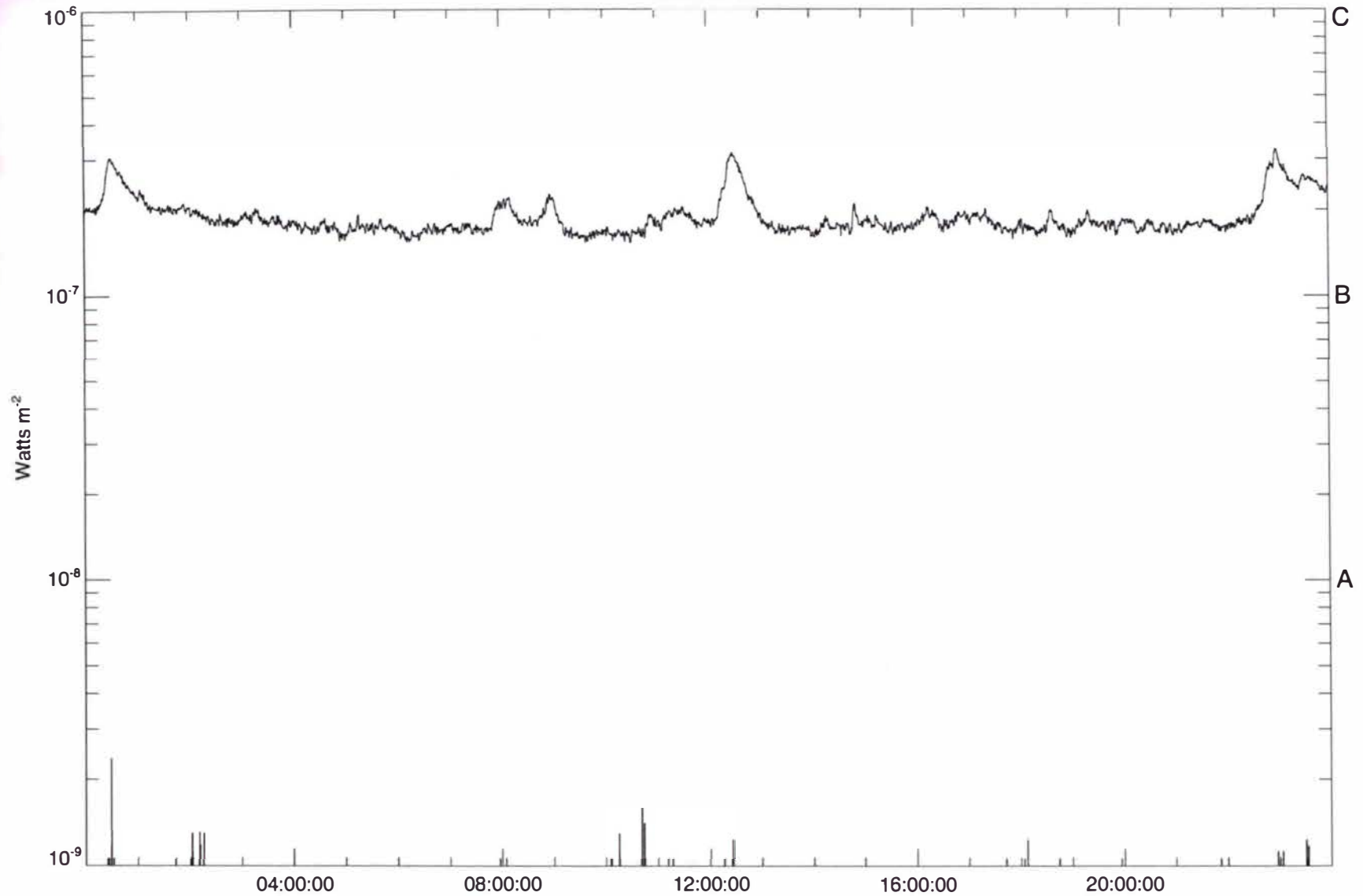
76669.547

21:17:49.547

40-200 keV



GOES 12



Data Start: 11/08/19, 0000:09

Plot created: 11/08/22, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

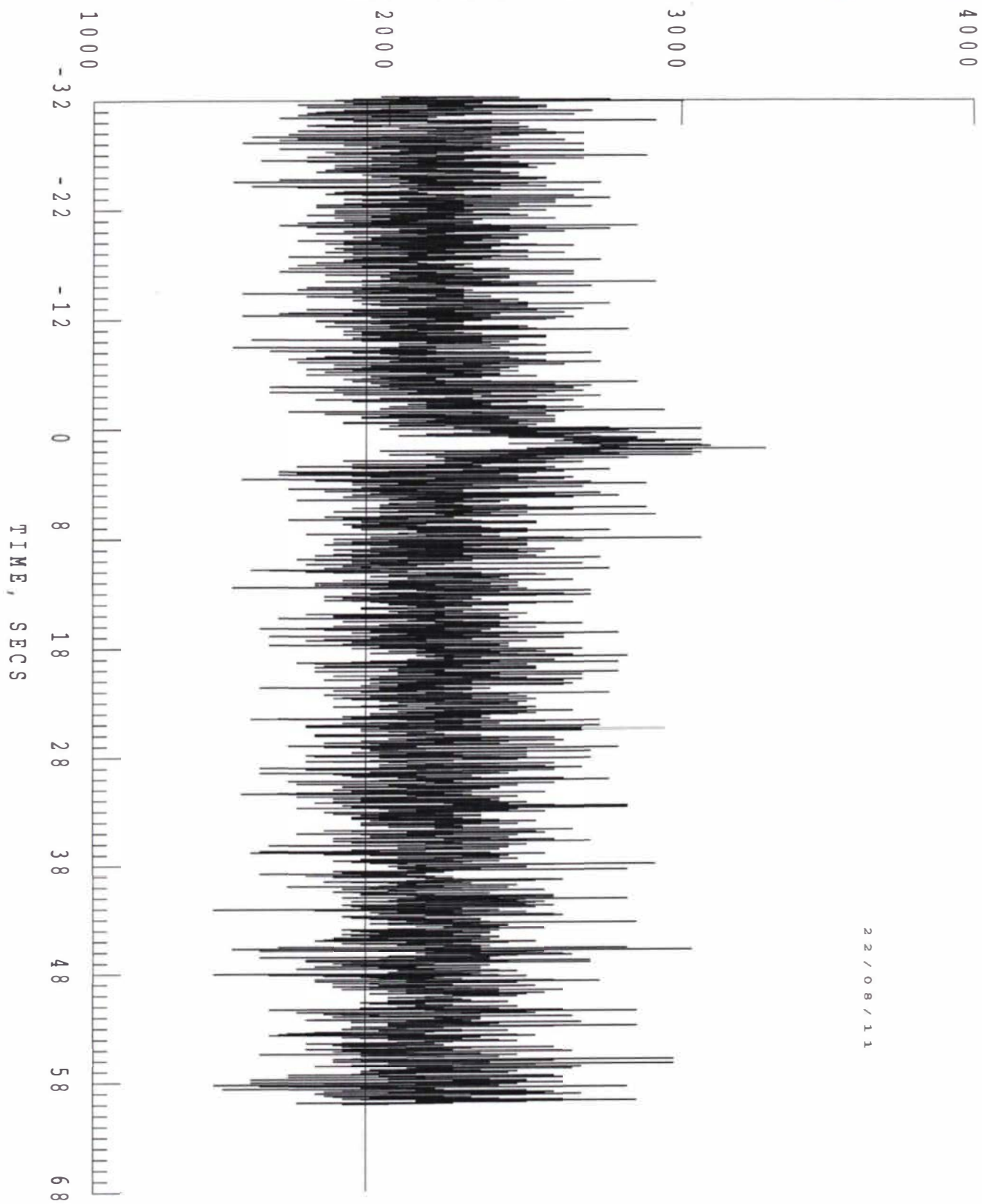
GLAST

20/08/11

41144.348

26- 293 keV

COUNTS/0.032 S



22/08/11

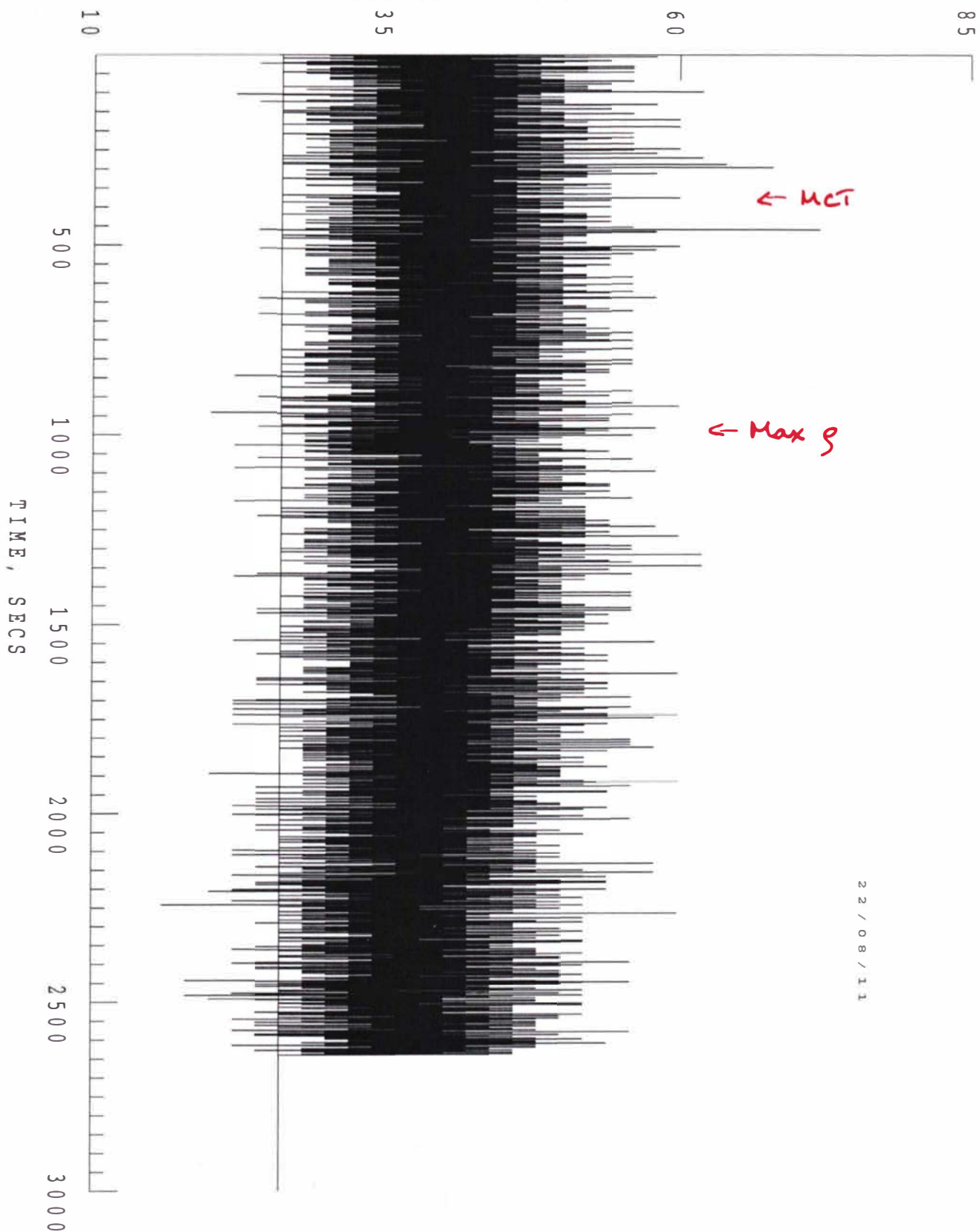
MS01

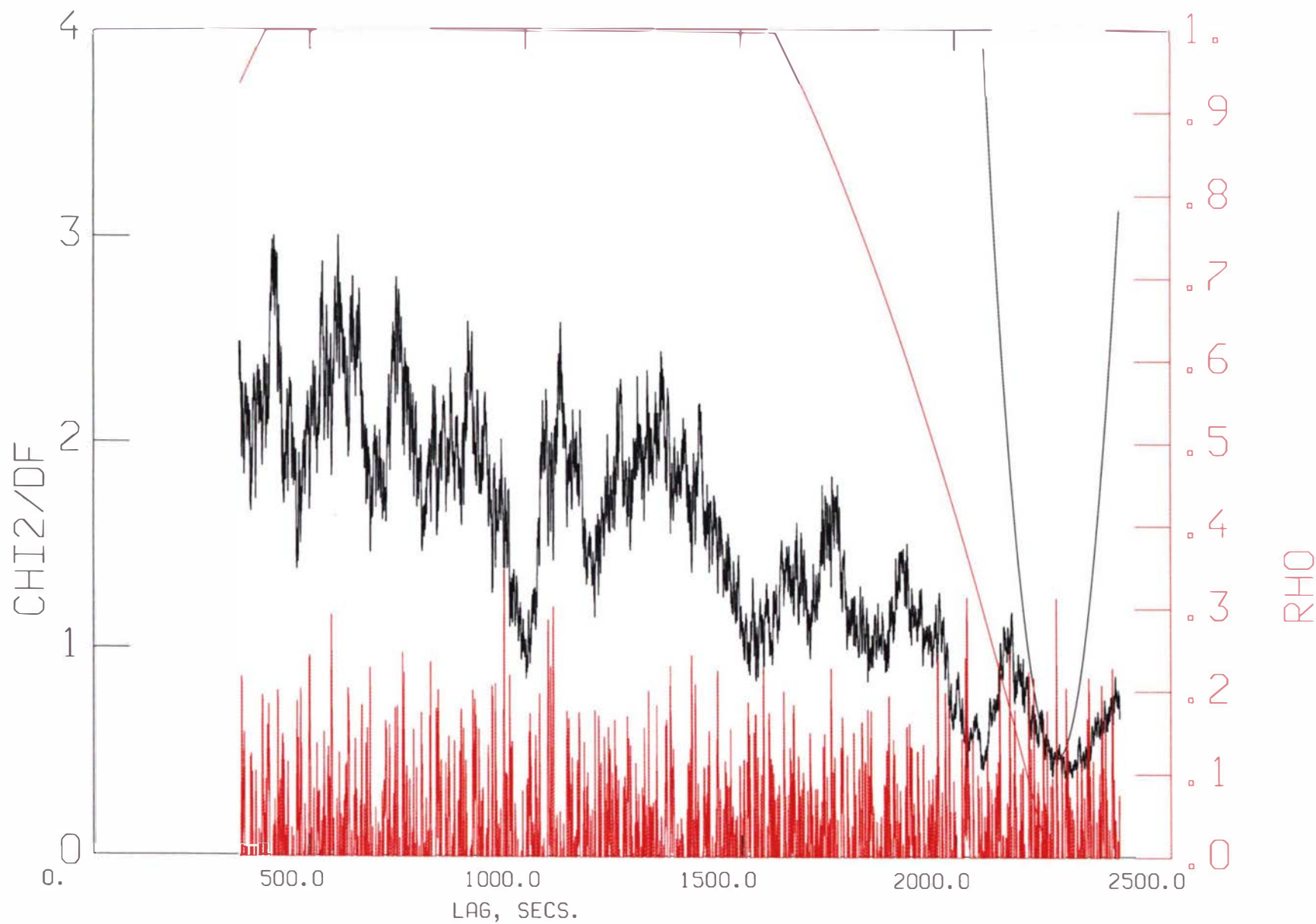
20/08/11

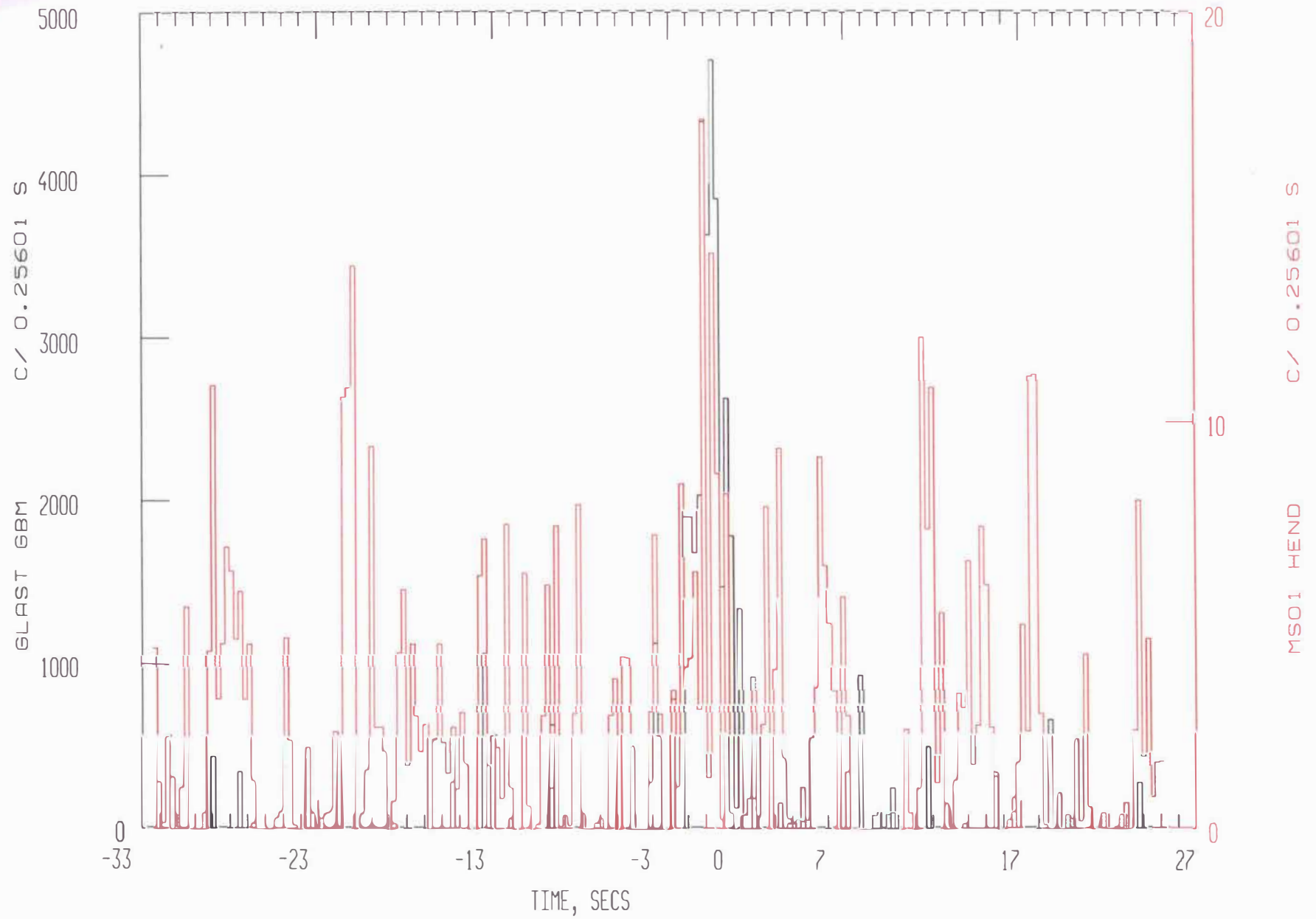
39786.045

50 - 3000 keV

COUNTS/0.250 S



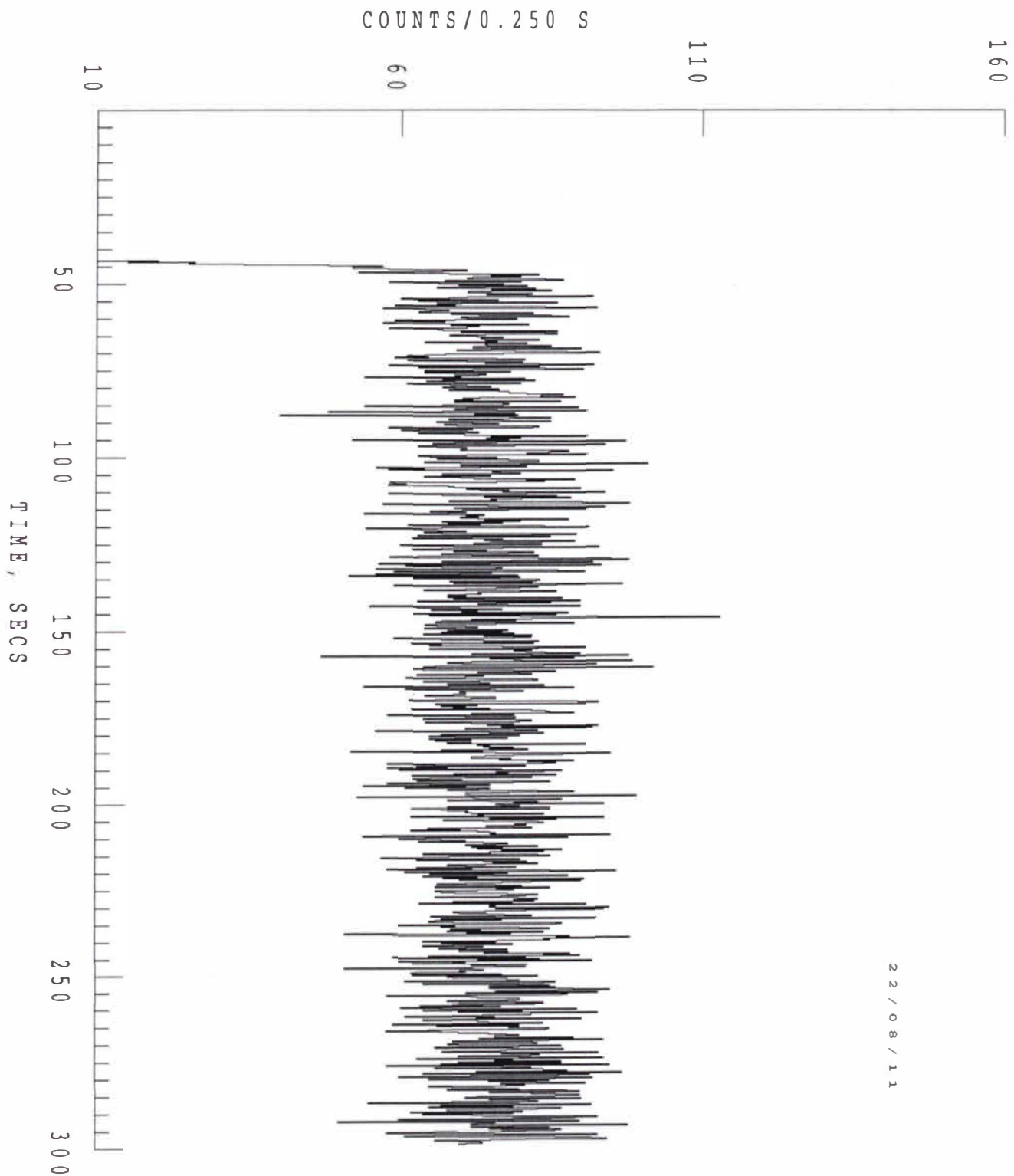




HESSI

20/08/11 40994.000 (GLAST_20110820_41144)

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110820_1125

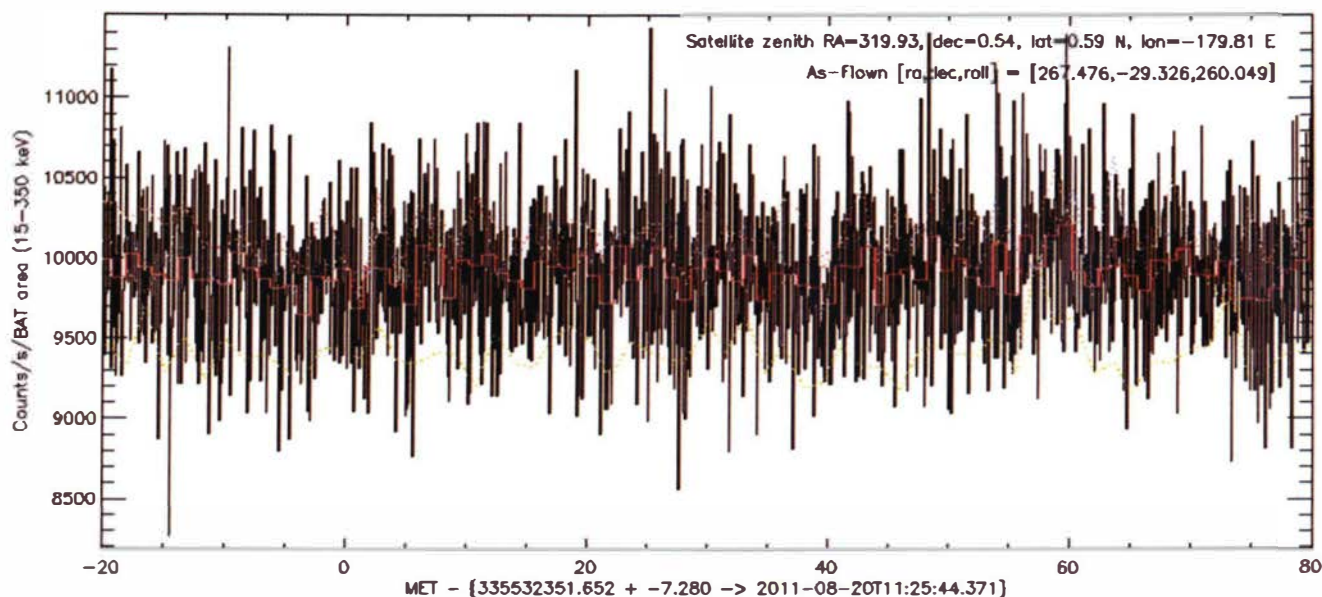
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 20 Aug 2011 15:42:54 -0600 (MDT)

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

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

/tmp/110820_1125.png



```
% /usr/local/bin/swinfo -o 335532351.650 -s 100.600_29.280
Time(MET + UTC -> UT): 335532351.651 + -7.280 -> 2011-08-20T11:25:44.370
Swift Zenith(RA,dec): 319.93, 0.54
Swift Location(lon,lat,alt): -179.81 E, 0.59 N, 576 km
Obs Sequence Number: 00032070009
Obs Target Name: IGR J17498-2921
Obs Date and Times: 2011-08-20 11:08:54 - 11:35:51
Obs Pointing(ra,dec,roll): 267.476, -29.326, 260.05
100.600_29.280_imageloc (boresight_dist, angle): (169, -77)
100.600_29.280_exposure (cm^2 cos adjusted): 0
100.600_29.280_altitude: -19 (down)
```

```
% /usr/local/bin/swinfo -o 335532351.651
Time(MET + UTC -> UT): 335532351.652 + -7.280 -> 2011-08-20T11:25:44.371
Swift Zenith(RA,dec): 319.93, 0.54
Swift Location(lon,lat,alt): -179.81 E, 0.59 N, 576 km
Obs Sequence Number: 00032070009
Obs Target Name: IGR J17498-2921
Obs Date and Times: 2011-08-20 11:08:54 - 11:35:51
Obs Pointing(ra,dec,roll): 267.476, -29.326, 260.05
```

--
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>

/tmp/110820_1125_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110820_1125.png

/tmp/110820_1125.png	Content-Type:	image/png
	Content-Encoding:	base64

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

From vxw@capella2.gsfc.nasa.gov Sat Aug 20 10:41:16 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Sat, 20 Aug 2011 13:42:20 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
o: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: f3c652f9f5b11f4183a7e8caf978ef4268calbd5
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -1.048'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Sat 20 Aug 11 17:42:19 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 501095, Seg_Num: 0
GRB_RA: 343.335d {+22h 53m 20s} (J2000),
343.433d {+22h 53m 44s} (current),
342.919d {+22h 51m 41s} (1950)
GRB_DEC: +70.305d {+70d 18' 20"} (J2000),
+70.368d {+70d 22' 03"} (current),
+70.039d {+70d 02' 21"} (1950)
GRB_DATE: 15793 TJD; 232 DOY; 11/08/20
GRB_TIME: 63507.79 SOD {17:38:27.79} UT
TRIGGER_INDEX: 262
GRB_PHI: -117.71 [deg]
GRB_THETA: 11.48 [deg]
DELTA_TIME: 12.00 [sec]
TRIGGER_DUR: 2.048 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 12.52 [sigma]
MAGE_SIGNIF: 8.09 [sigma]
JC_URL: sw00501095000msb.lc
SUN_POSTN: 149.56d {+09h 58m 15s} +12.39d {+12d 23' 13"}
SUN_DIST: 96.69 [deg] Sun_angle= 11.1 [hr] (West of Sun)
MOON_POSTN: 40.96d {+02h 43m 50s} +19.01d {+19d 00' 38"}
MOON_DIST: 61.49 [deg]
MOON_ILLUM: 61 [%]
GAL_COORDS: 113.23, 9.69 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 41.52, 64.46 [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 = 41.74,14.70 [deg]

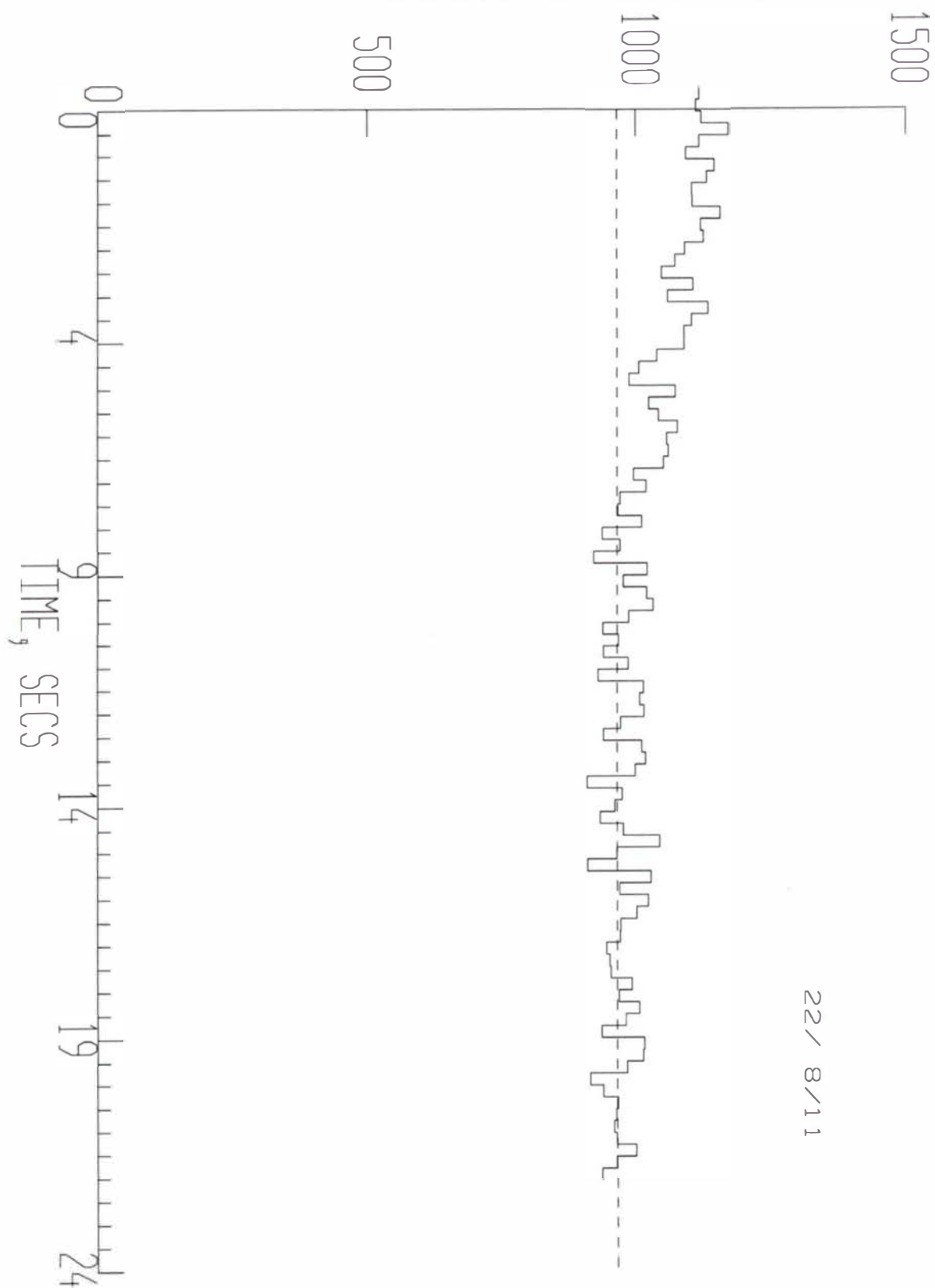
256 s

$8.2 \times 10^{-7} \text{ erg cm}^{-2}$

SWIFT 20/08/11 63507.792

25- 100 keV

COUNTS/0.256 S



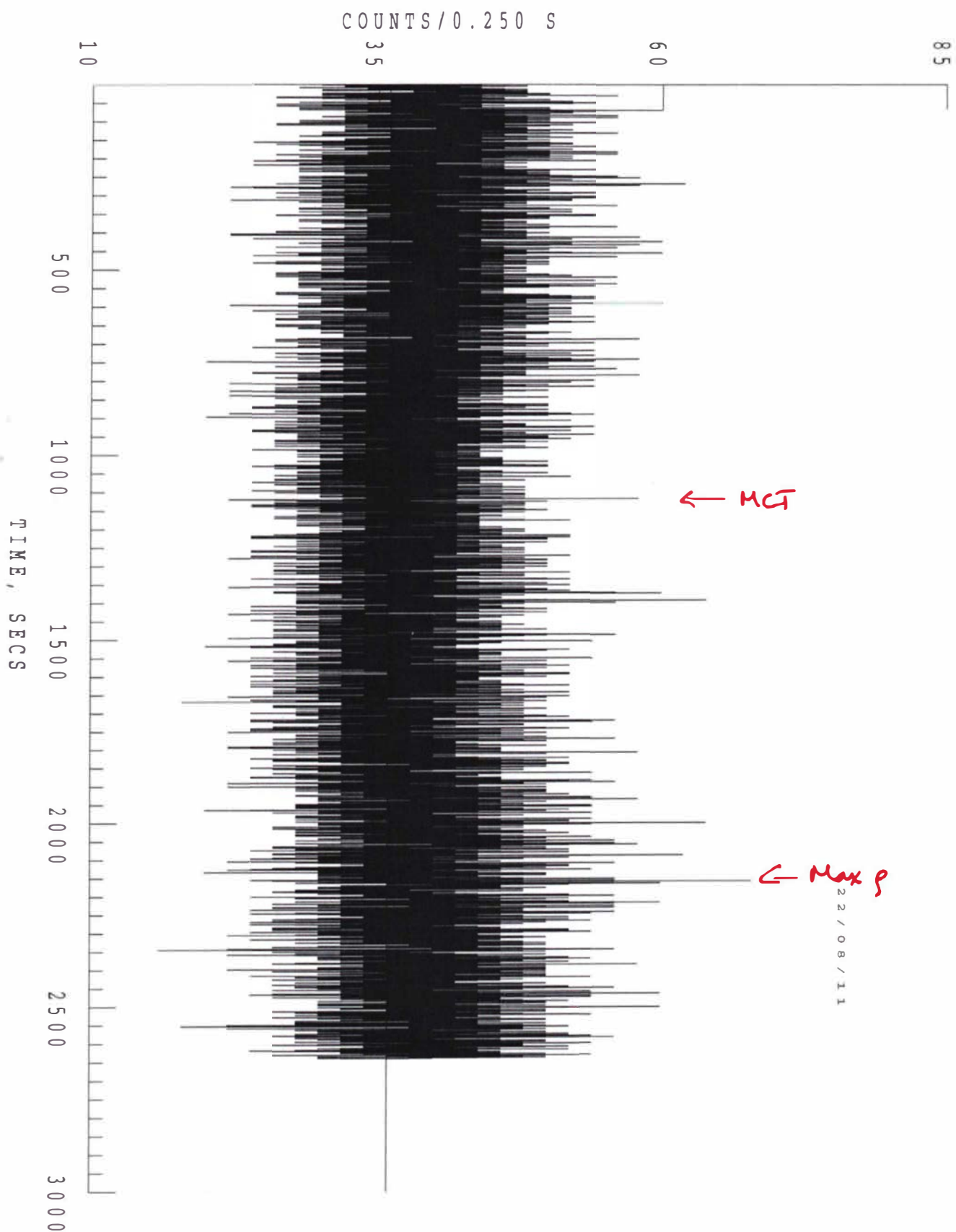
22/ 8/11

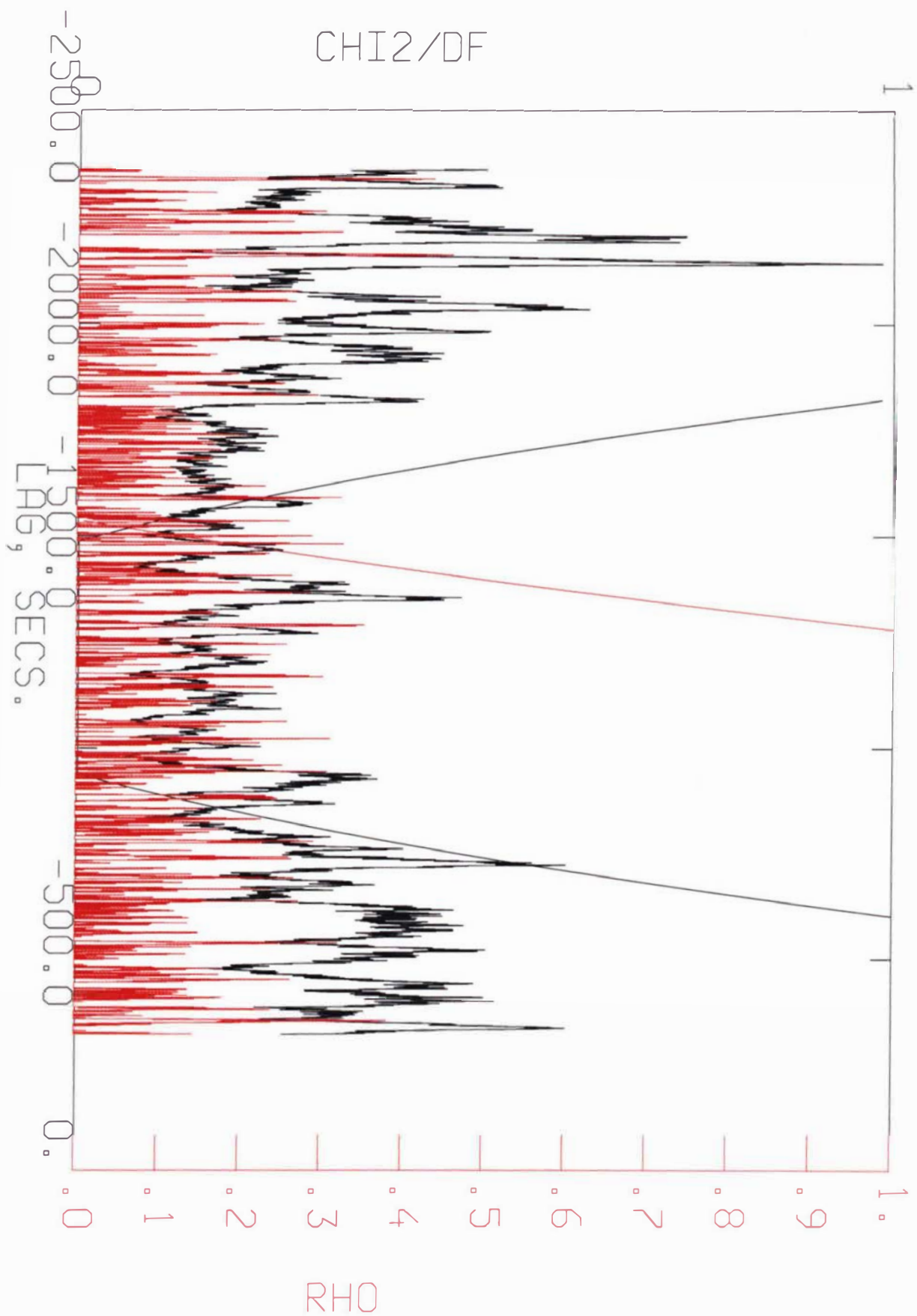
MS01

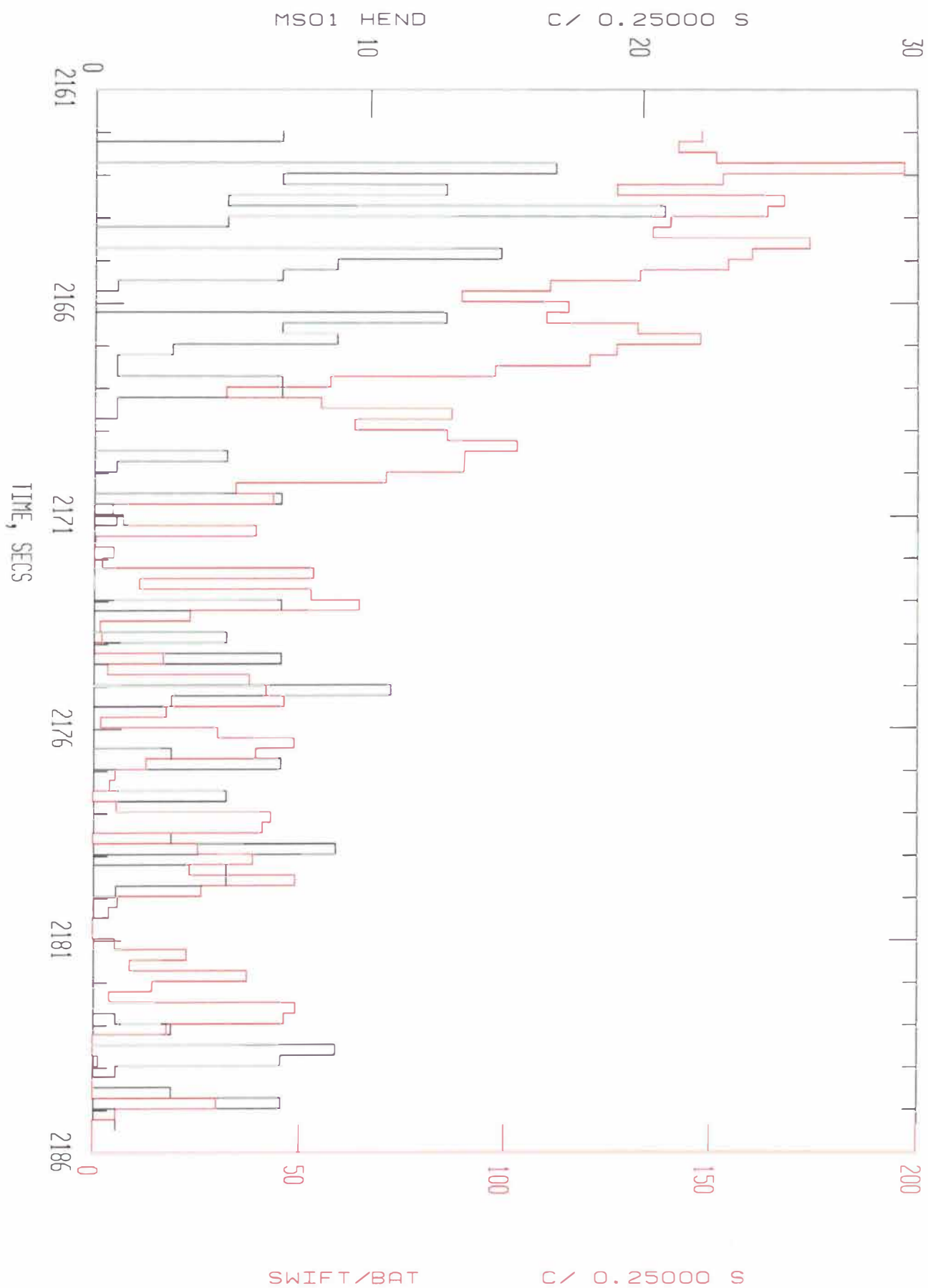
20/08/11

62165.664

50 - 3000 keV







From williams@gammaburst.ssl.berkeley.edu Thu Aug 25 23:03:49 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Thu, 25 Aug 2011 23:03:07 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SWIFT_20110820_63507
X-Ucb-Scan-Signature: f35f220eaef4320eb086f69ac00fddc959b22
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.502'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 25-Aug-2011 23:03:45.00
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

Date: _____

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?

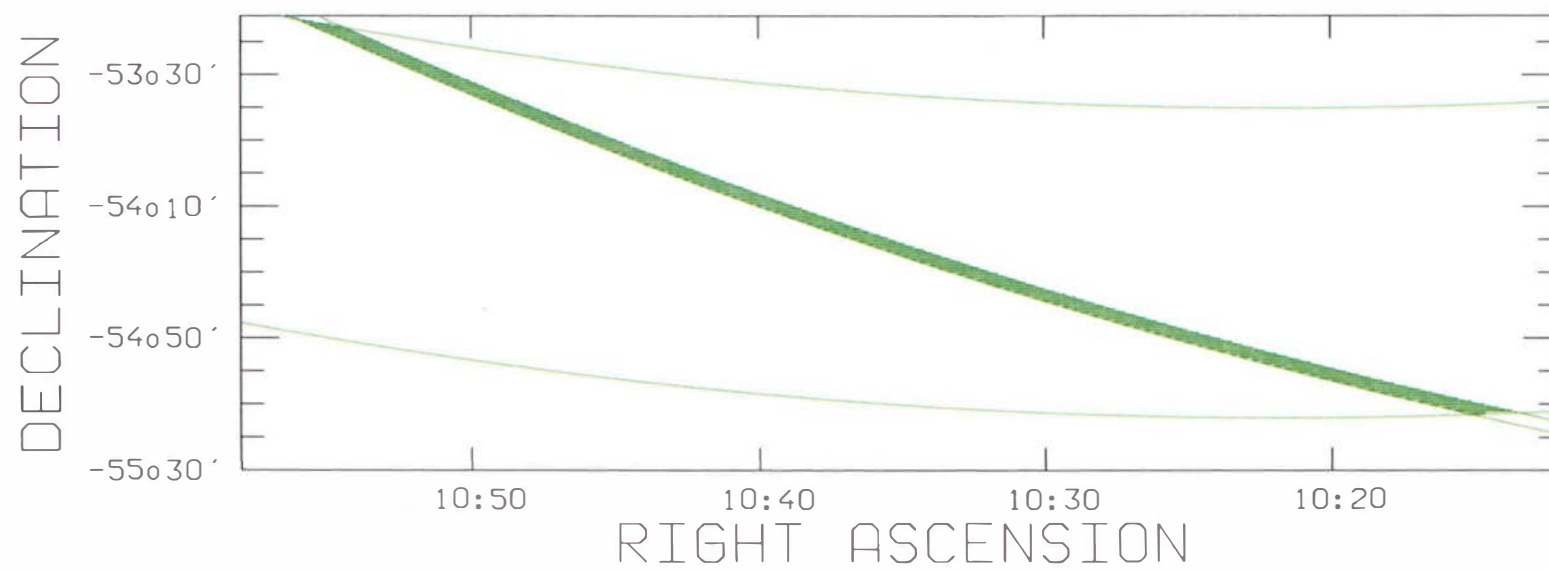
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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-ipnrc.pl>)

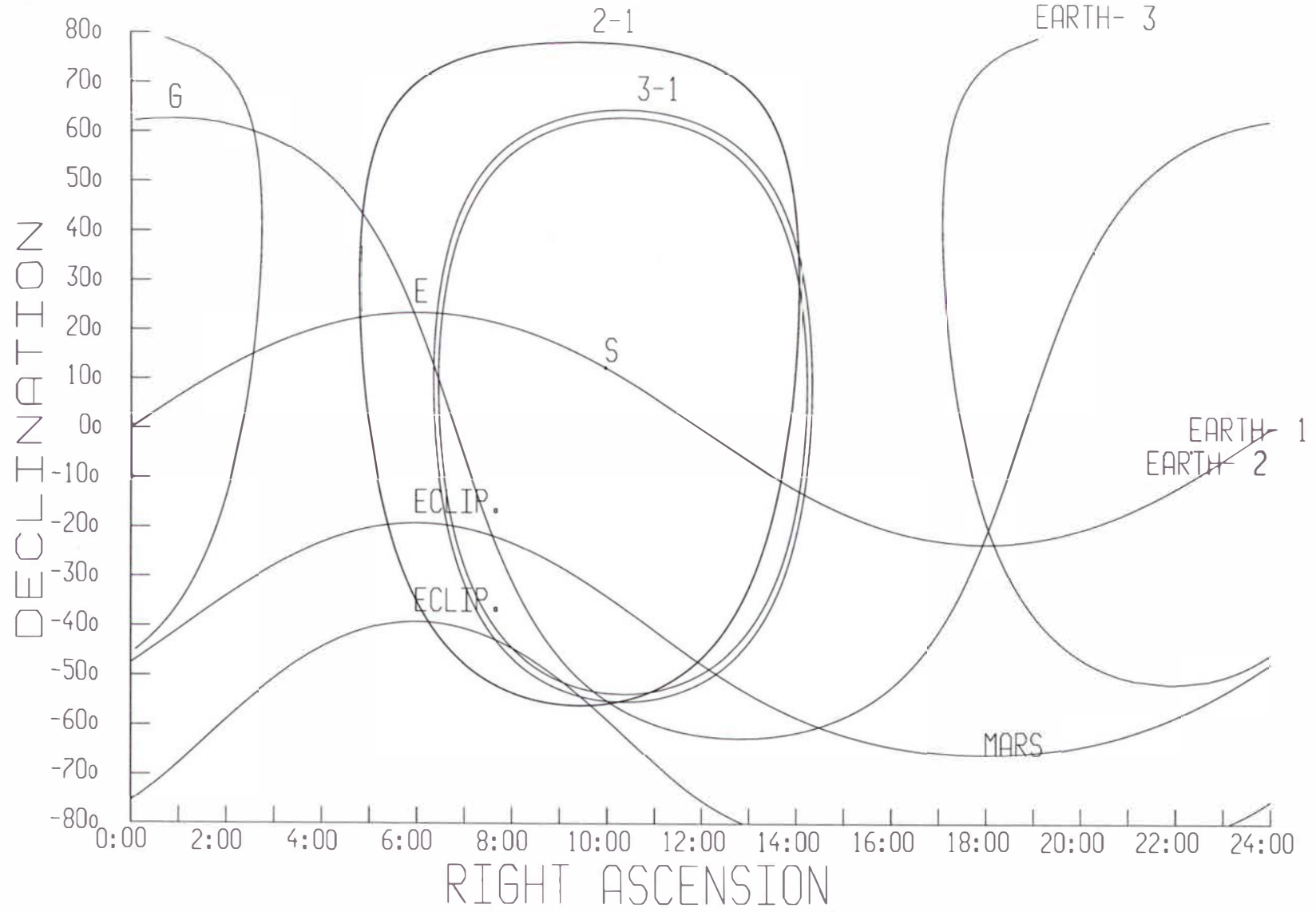
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

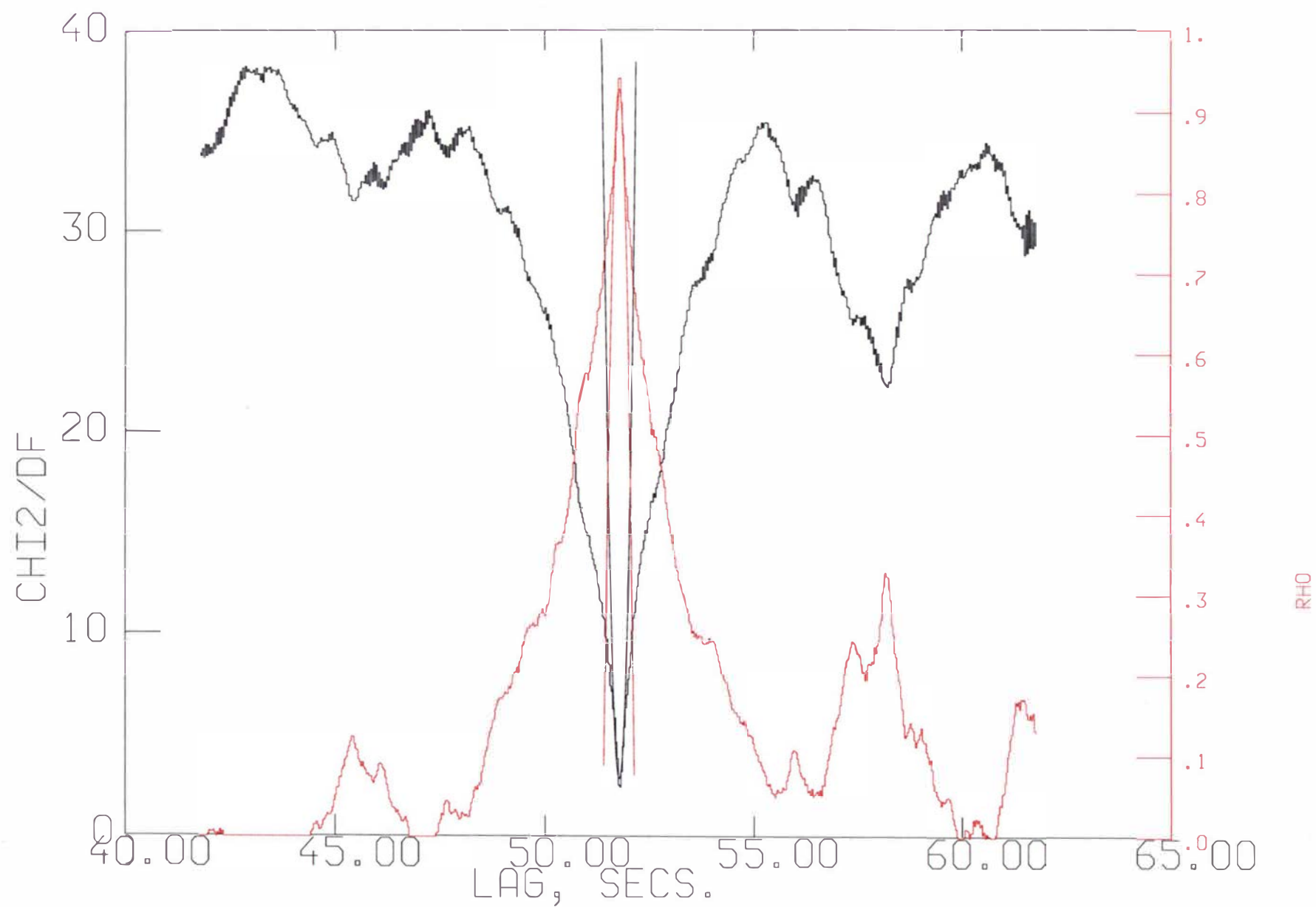


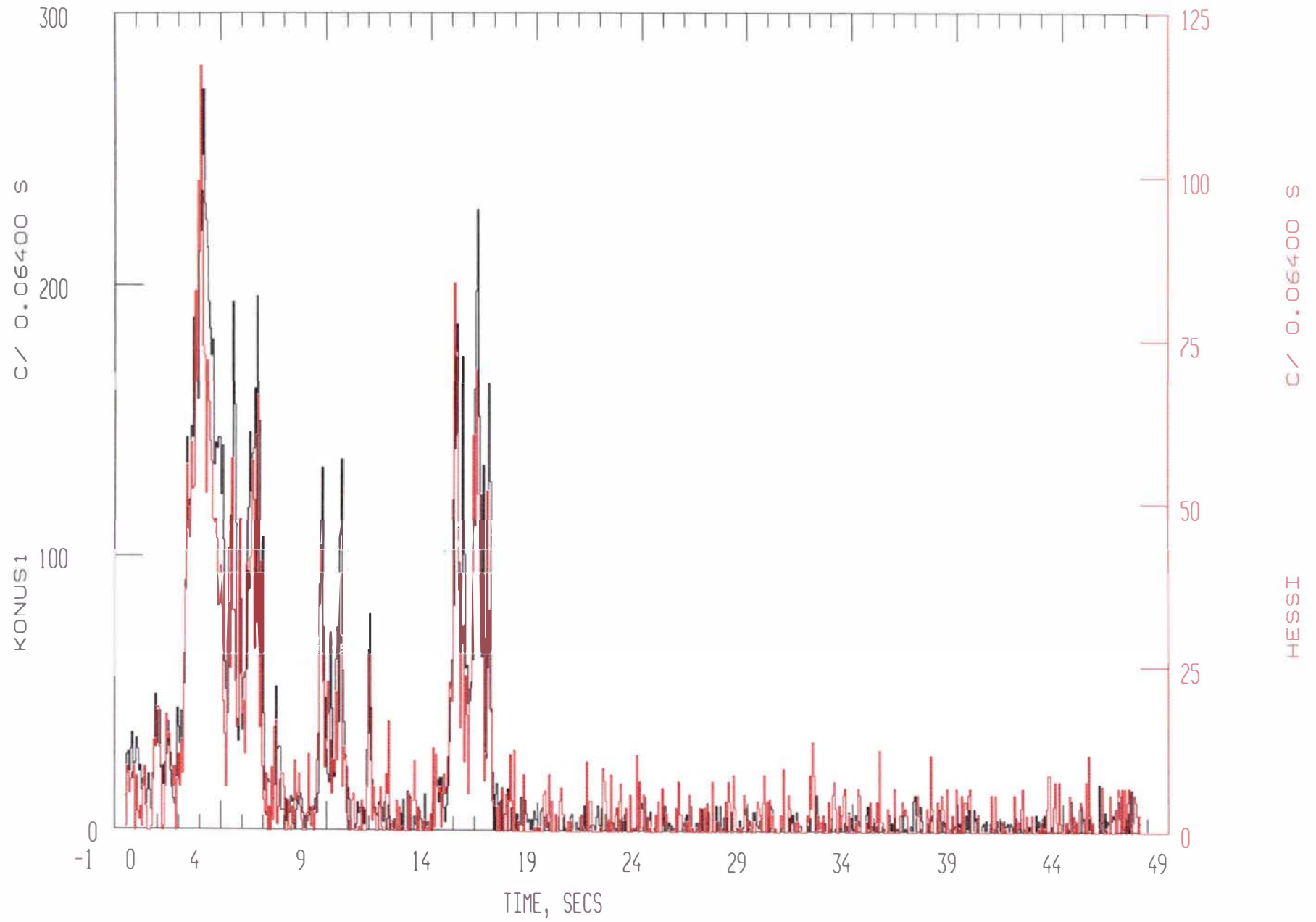
EVENT OF AUG 20, 2011 21:27

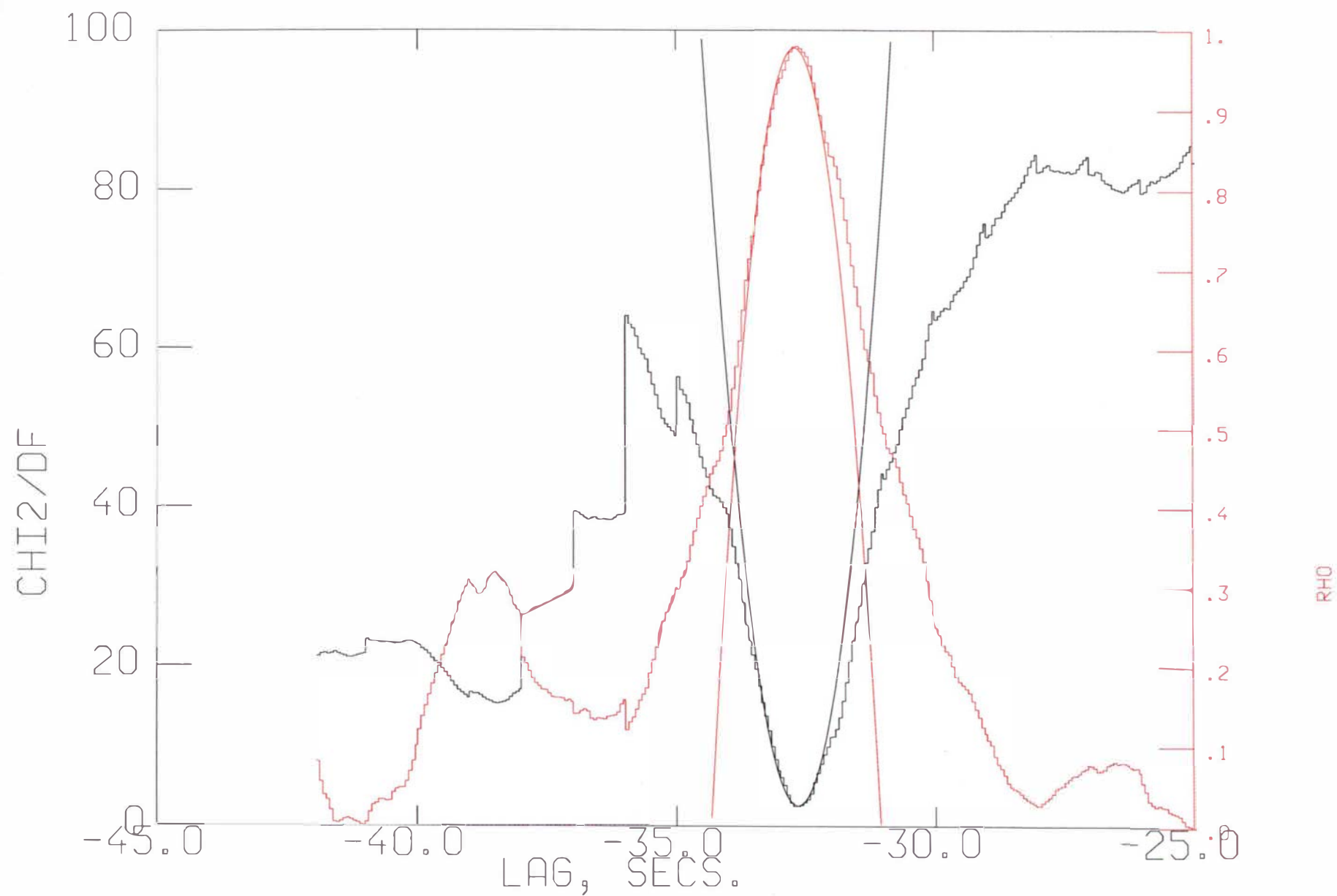
25/03/2013

N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 KONUS1 2 MESSENGER 3 HESSI









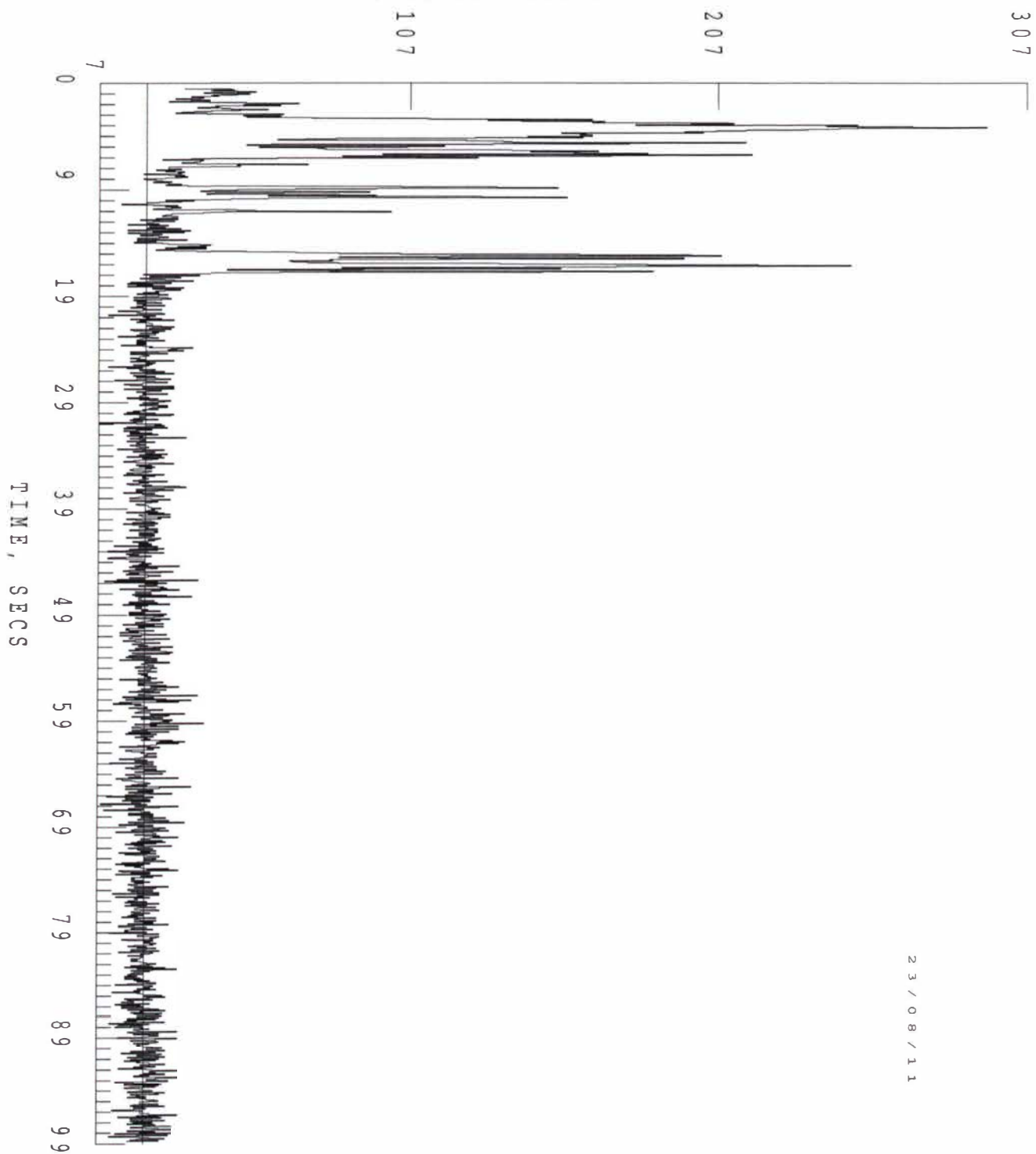
KONUS1

20/08/11

77268.054

50 - 200 keV

COUNTS/0.064 S



23/08/11

KONUS HRES 20110820 77268

TRIGGER TIME: 20/08/11 DOY 232 Julian 2455795.39431 UT = 21.463 21:27:48 (77268.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

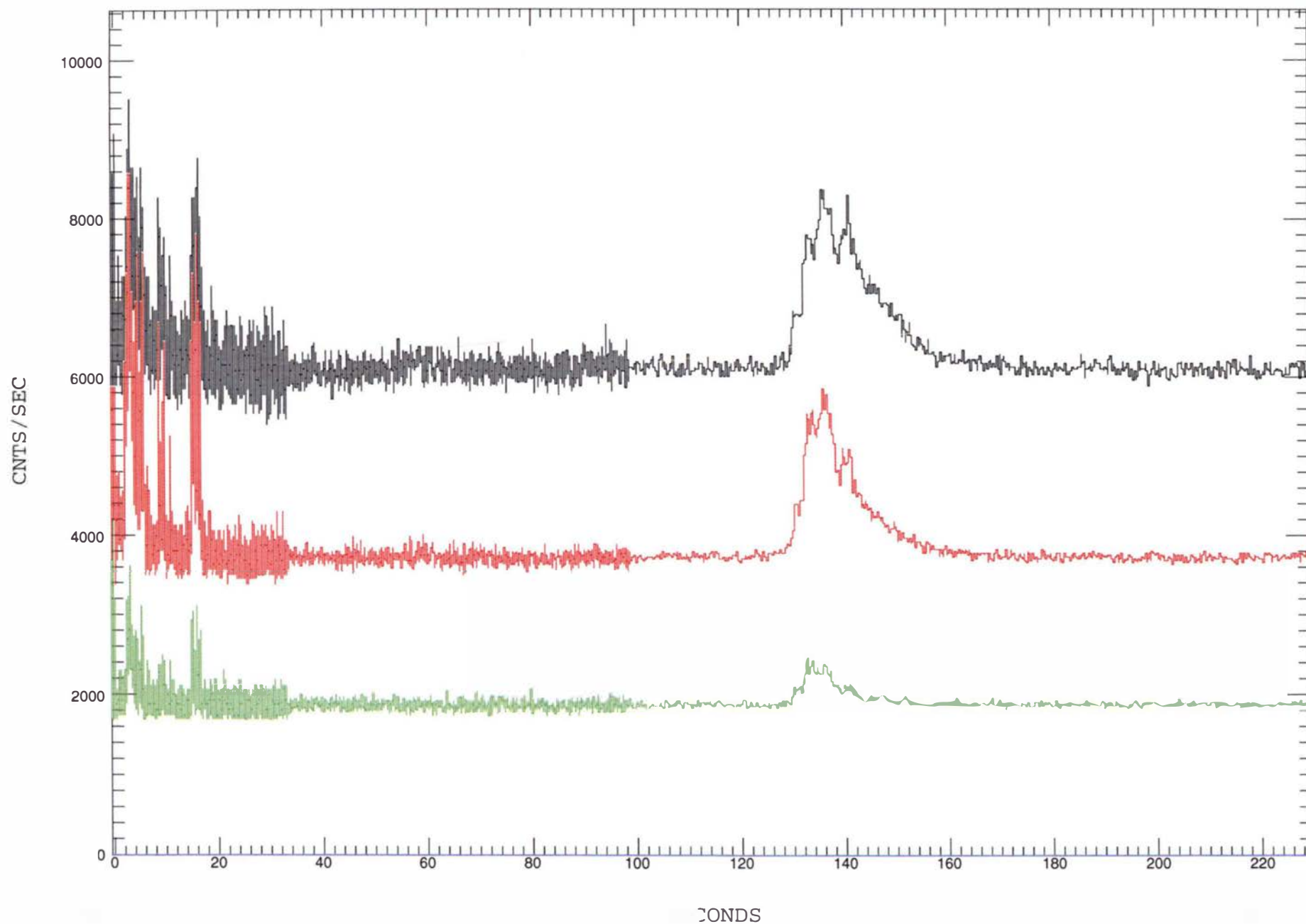
Chan 4 : [> 10 MeV]

Channel 1 + 5100

Channel 2 + 3400

Channel 3 + 1700

Channel 4 + 0



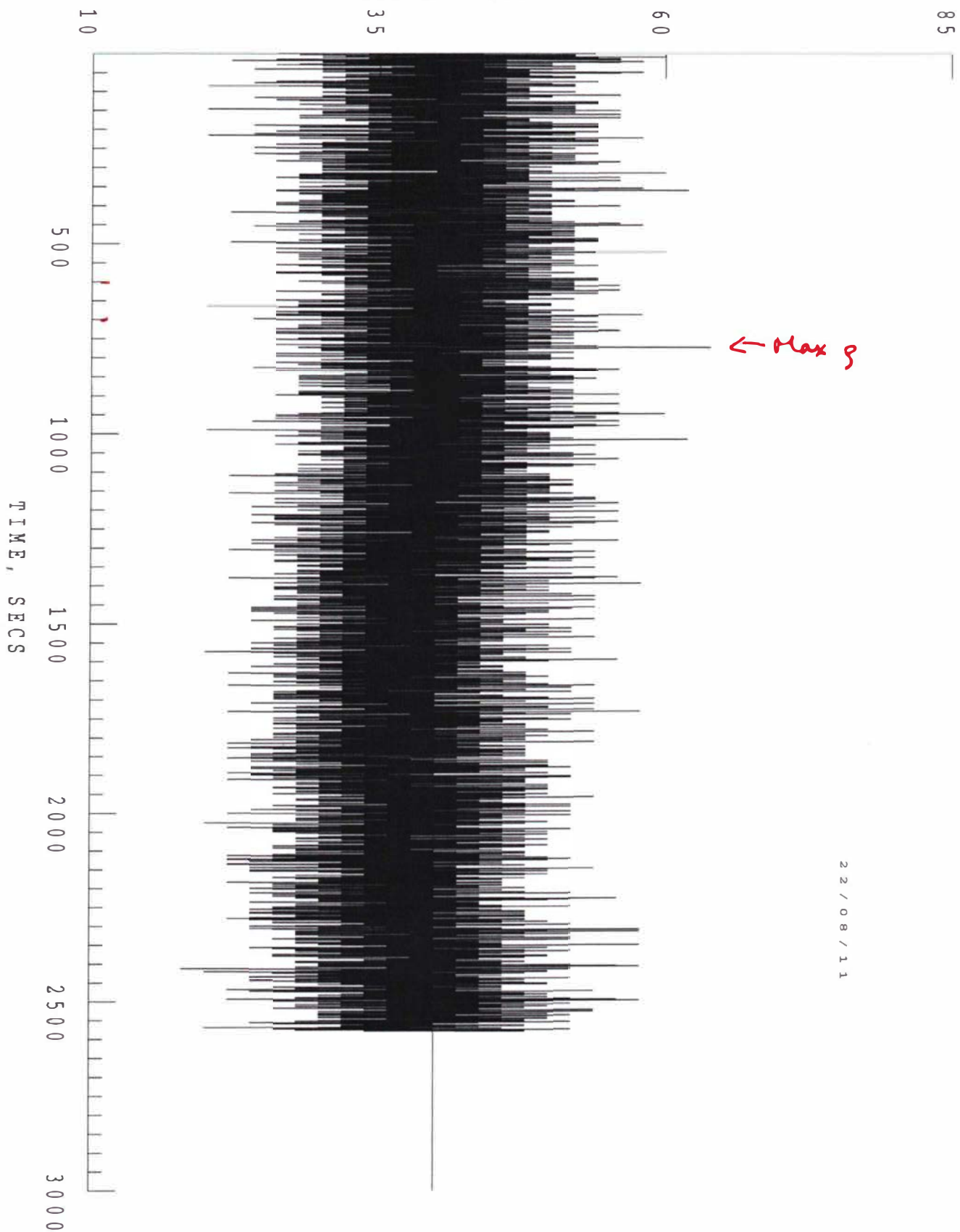
MS01

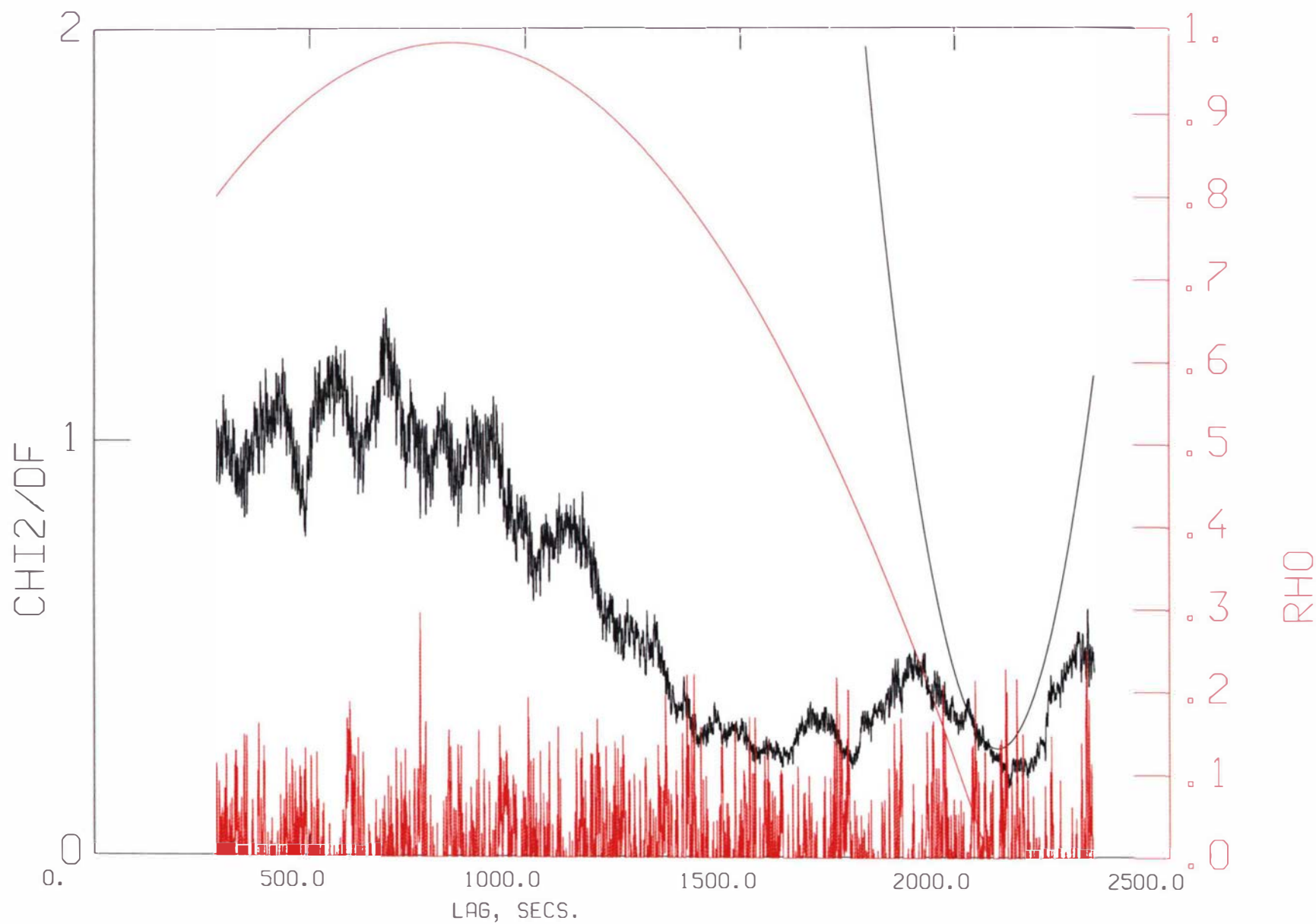
20/08/11

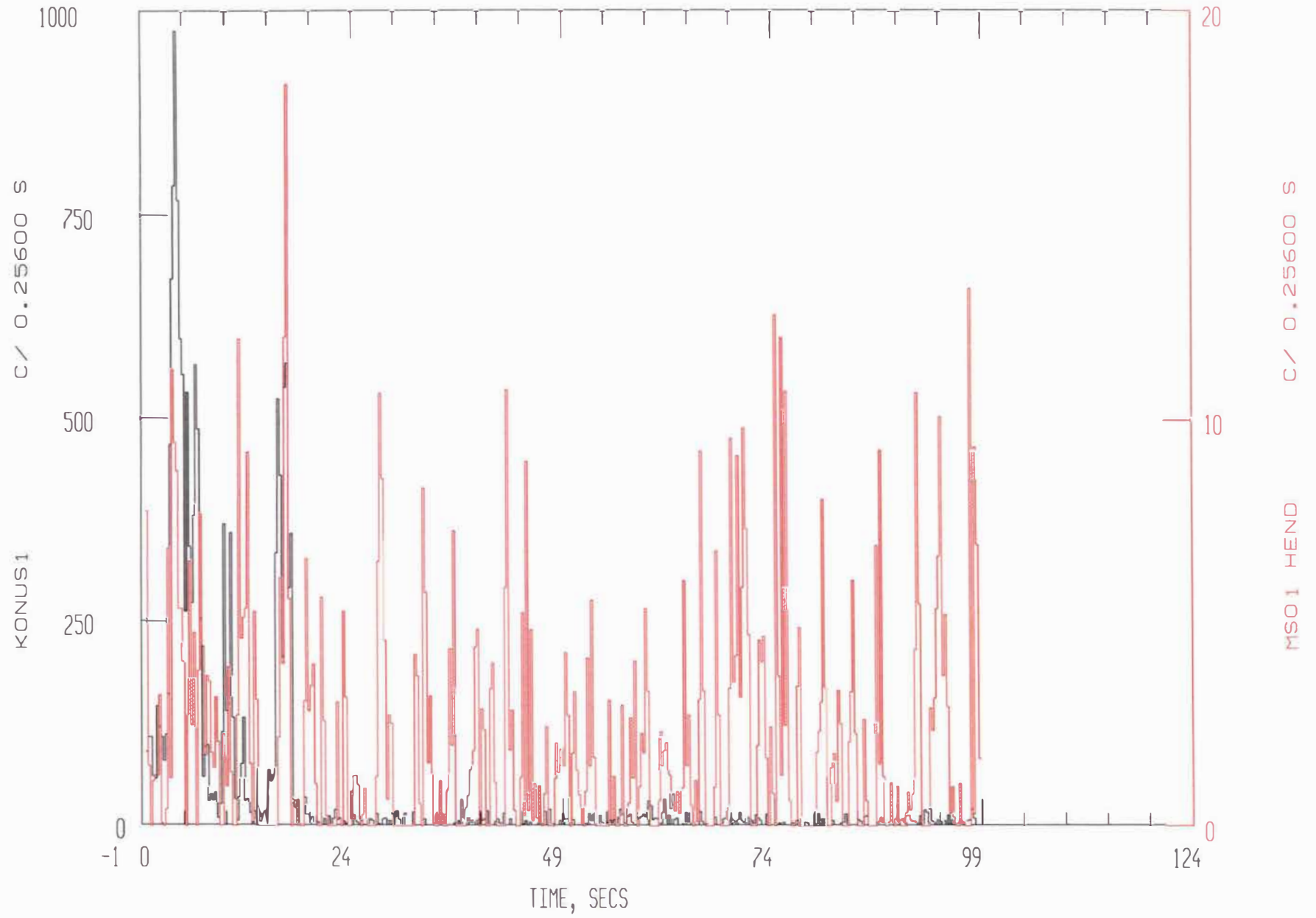
75965.435

50 - 3000 keV

COUNTS/0.250 S



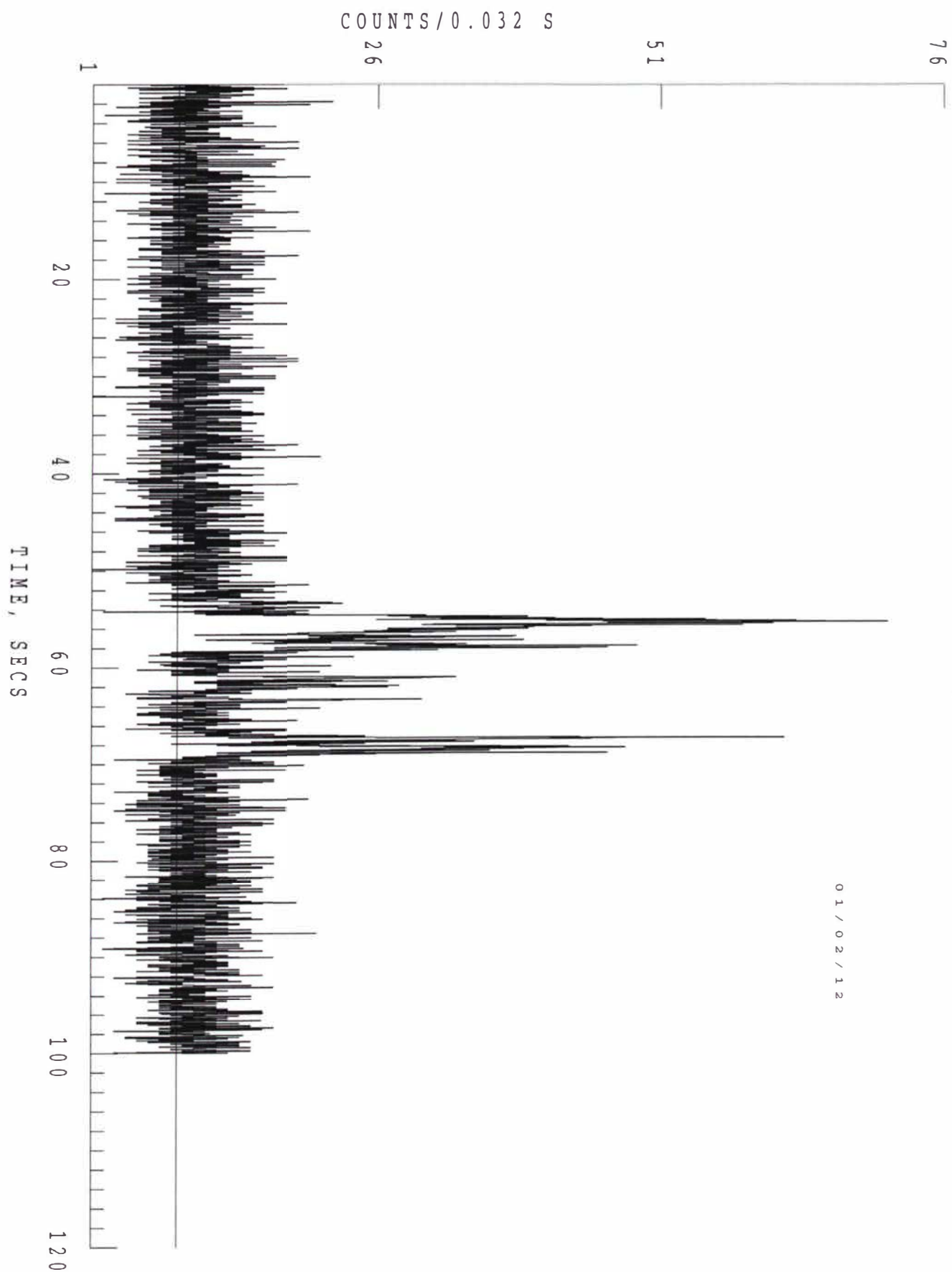




HESSI

20/08/11 77218.000 (KONUS_20110820_77268)

50 - 200 keV



Subject: [lpn] BAT lightcurve for trigger at 110820_2127

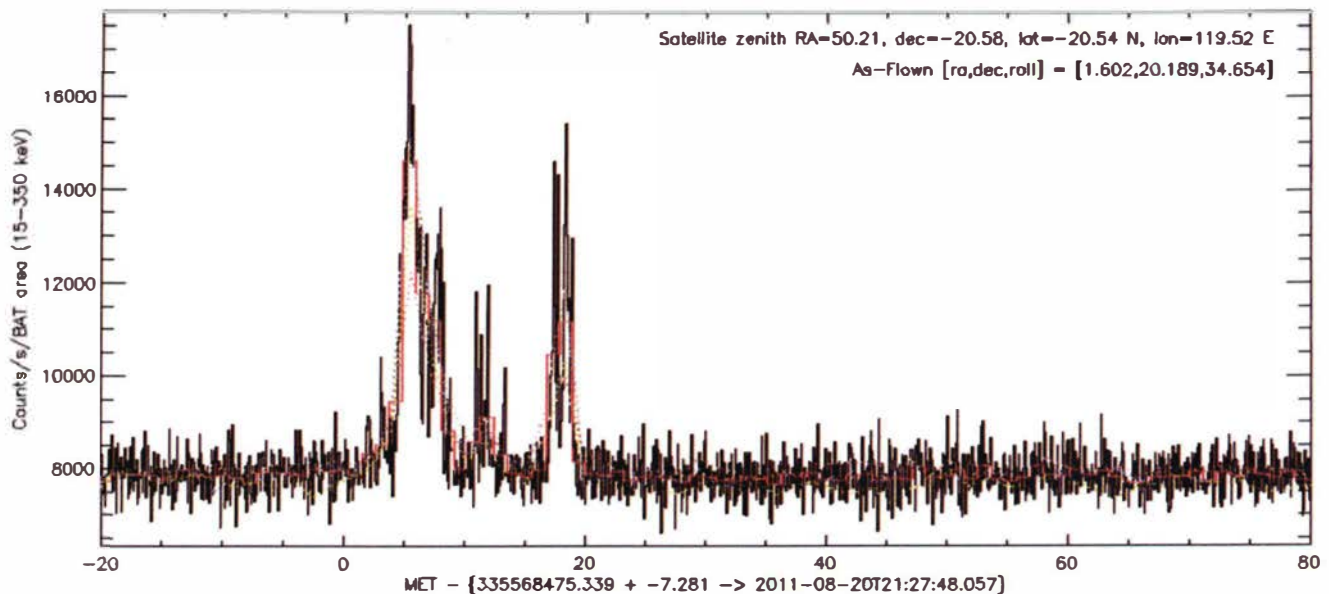
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 20 Aug 2011 18:40:16 -0600 (MDT)

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

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

/tmp/110820_2127.png



```
% /usr/local/bin/swinfo -o 335568475.338
Time(MET + UTC -> UT): 335568475.339 + -7.281 -> 2011-08-20T21:27:48.057
Swift Zenith(RA,dec): 50.21, -20.58
Swift Location(lon,lat,alt): 119.52 E, -20.54 N, 584 km
Obs Sequence Number: 00035755050
Obs Target Name: Mkn 335
Obs Date and Times: 2011-08-20 21:17:54 - 21:33:52
Obs Pointing(ra,dec,roll): 1.602, 20.189, 34.65
```

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>

/tmp/110820_2127.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110820_2127_bat64ms_ipn

/tmp/110820_2127_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

From ipn-bounces@ssl.berkeley.edu Sun Aug 21 15:36:06 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Sun, 21 Aug 2011 18:37:03 -0400
From: Jay Cummings <Jay.Cummings@nasa.gov>
To: "Valentin Pal'shin" <val@mail.ioffe.ru>
Cc: IPN <ipn@ssl.berkeley.edu>
Subject: Re: [Ipn] very bright long GRB 110820(B)
X-Ucb-Scan-Signature: fdbac38ce0a0926967ec0db1585f48f4d24b304c
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RCVD_IN_DNSWL_MED -2.3,
RP_MATCHES_RCVD -0.946'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Both of the large peaks were detected, as triggers 501118, 501119, and 511120. It was apparently out of the field of view.

Jay

On 8/21/11 4:48 PM, Valentin Pal'shin wrote: >> A very bright long GRB triggered Konus-Wind at 2011-08-20 >> T0(KW)=77268.054 (21:27:48.054) - see the attached figure. >> >> The source of the burst is in the southern ecliptic hemisphere at high >> ecliptic latitude. >> >> Any other detections? > I missed the David's automatic BAT lc for this trigger - it is seen it > was also detected by BAT (at least the first emission episode). > > Valentin > >

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

08/08/11

MESSENGER

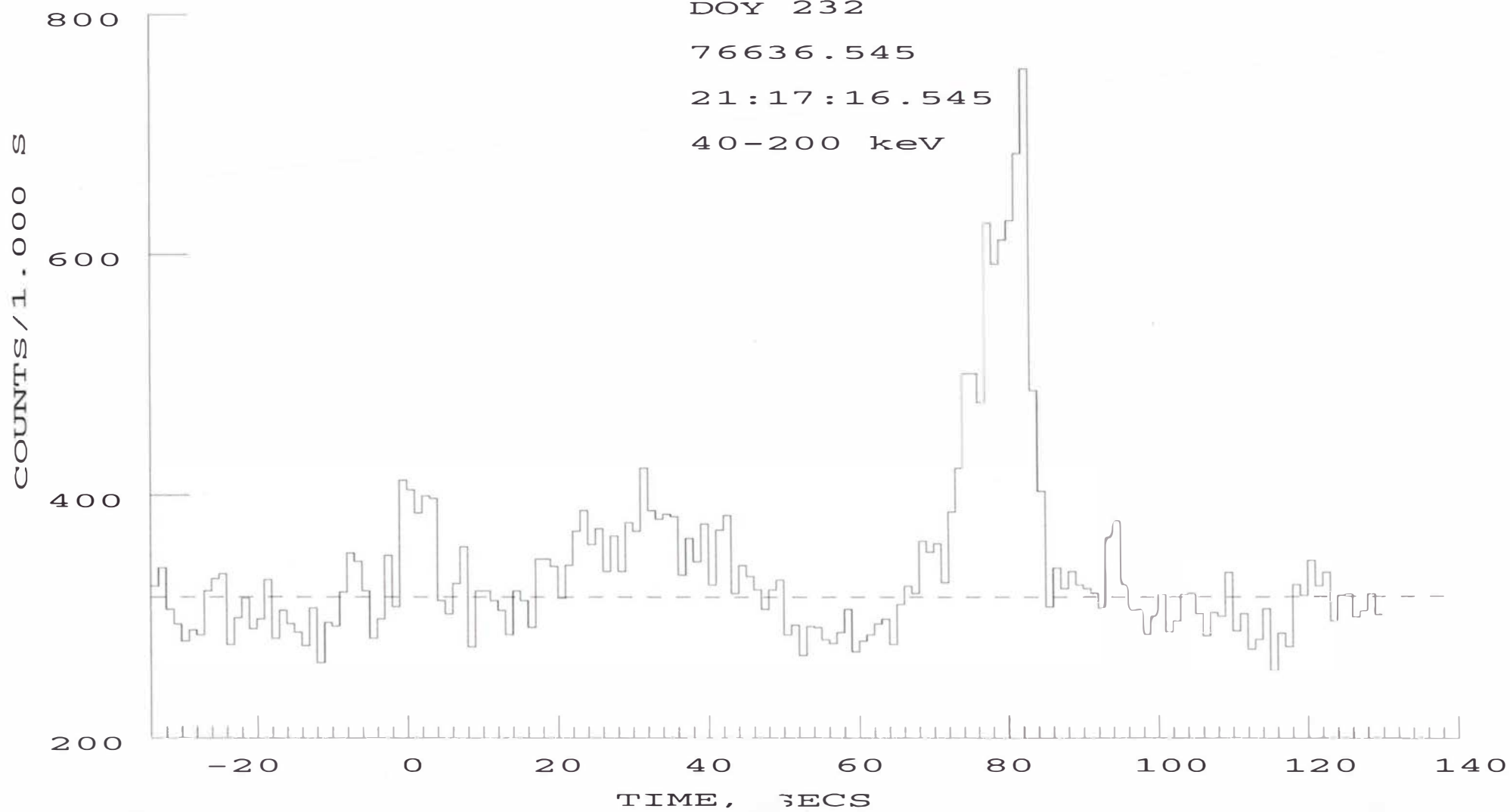
20/08/11

DOY 232

76636.545

21:17:16.545

40-200 keV



08/08/11

MESSENGER

20/08/11

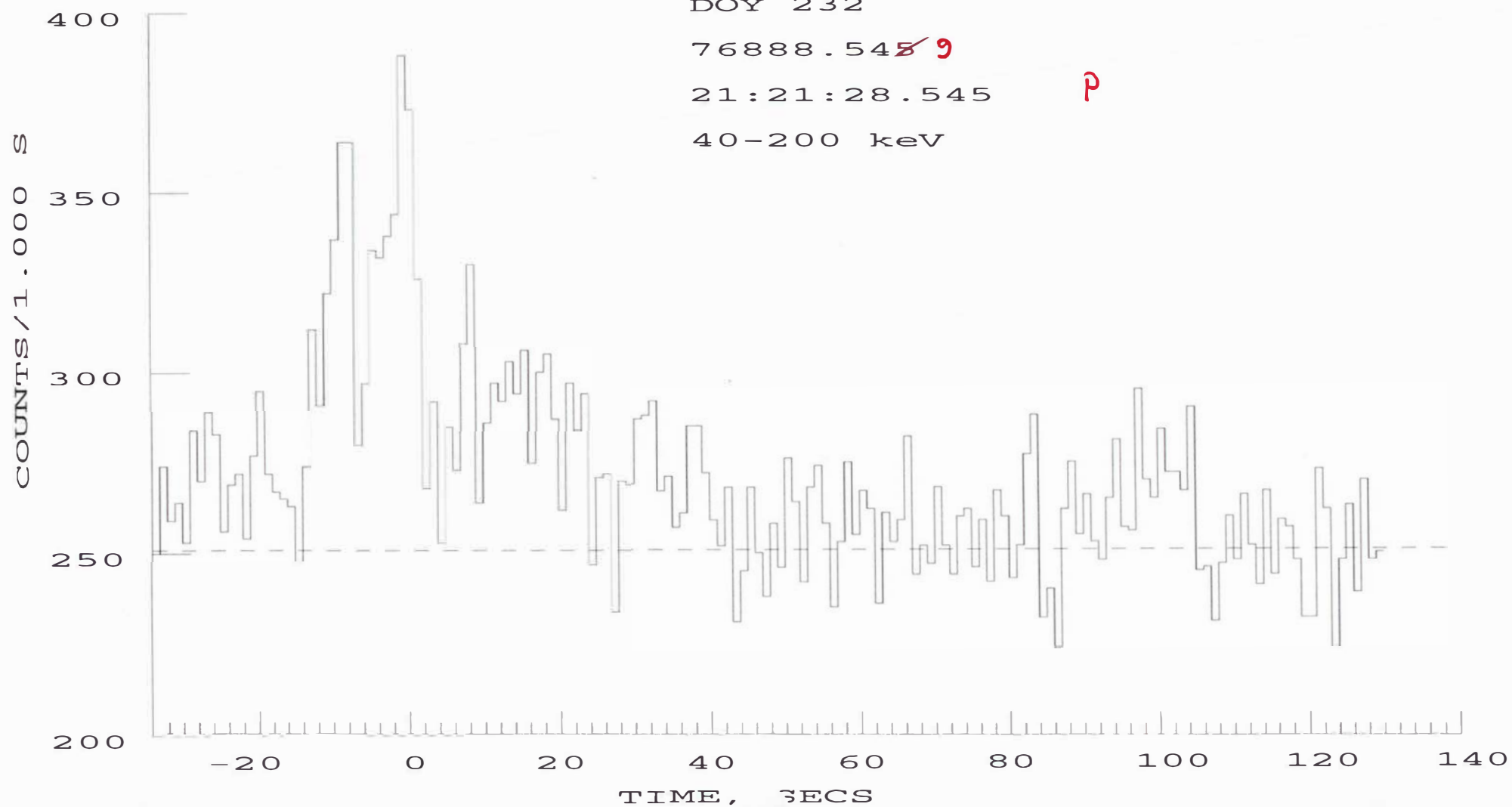
DOY 232

76888.54~~5~~9

21:21:28.545

P

40-200 keV



08/08/11

MESSENGER

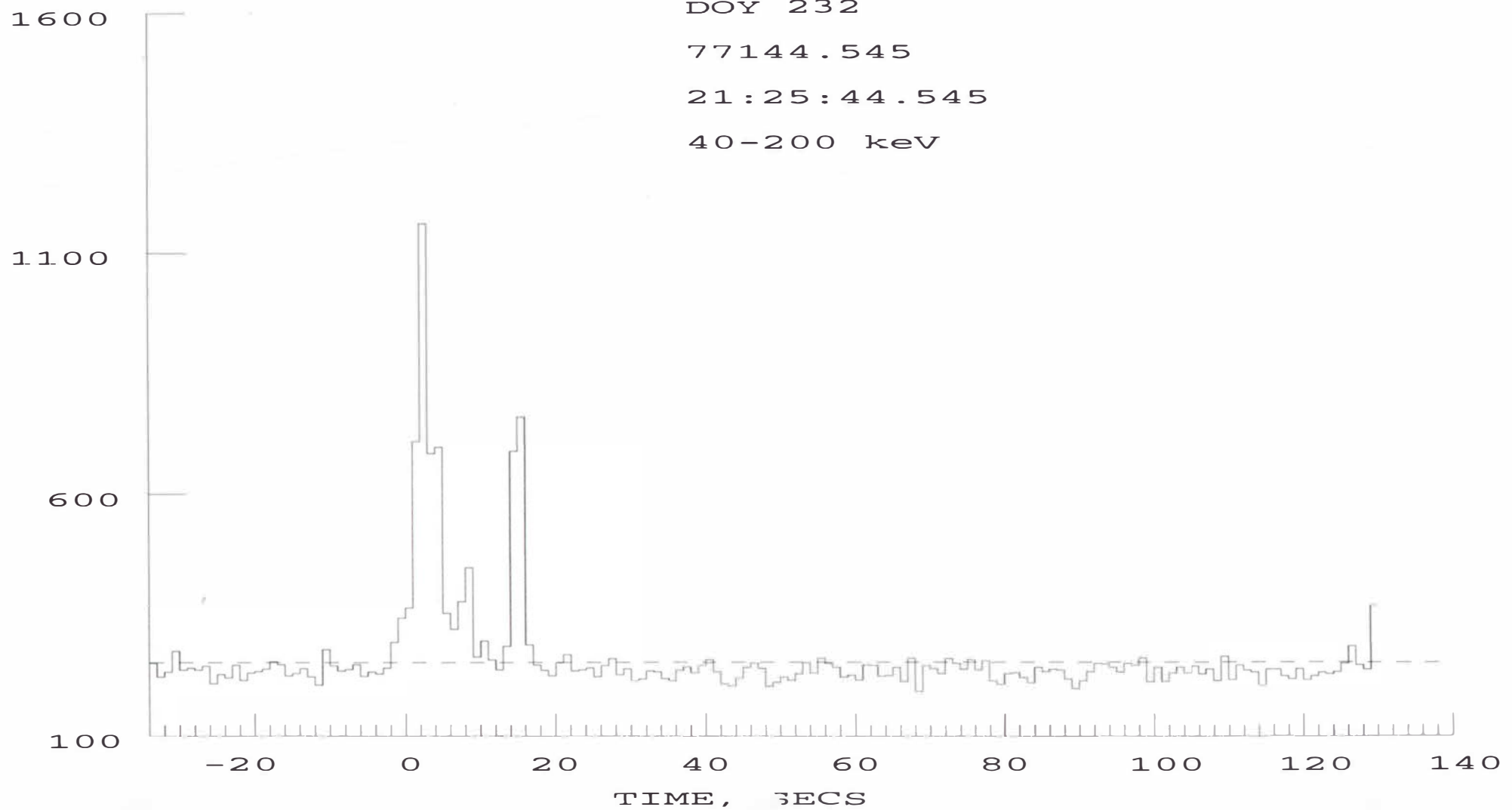
20/08/11

DOY 232

77144.545

21:25:44.545

40-200 keV



08/08/11

MESSENGER

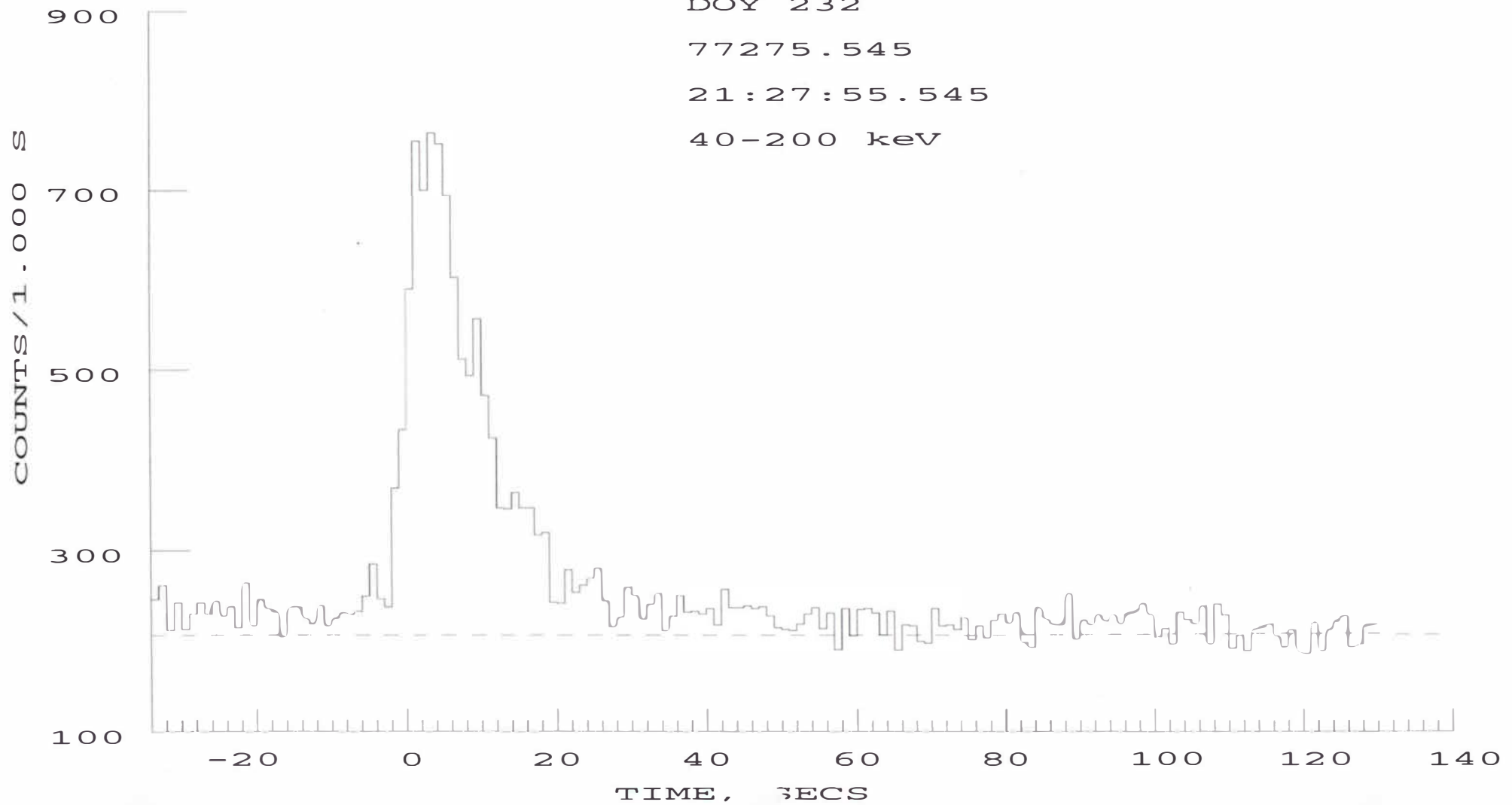
20/08/11

DOY 232

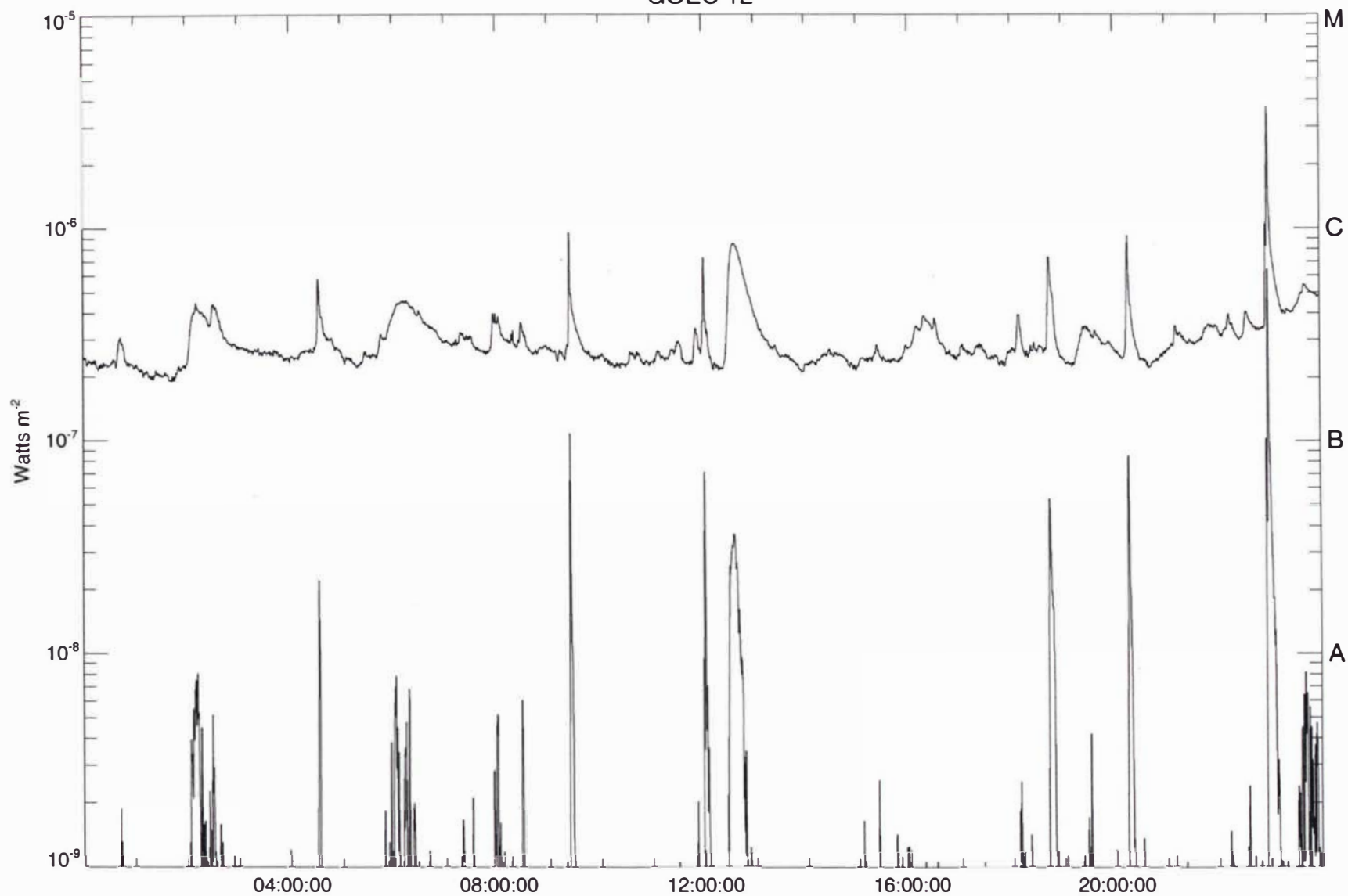
77275.545

21:27:55.545

40-200 keV



GOES 12



Data Start: 11/08/20, 0000:09

Plot created: 11/08/23, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

08/08/11

MESSENGER

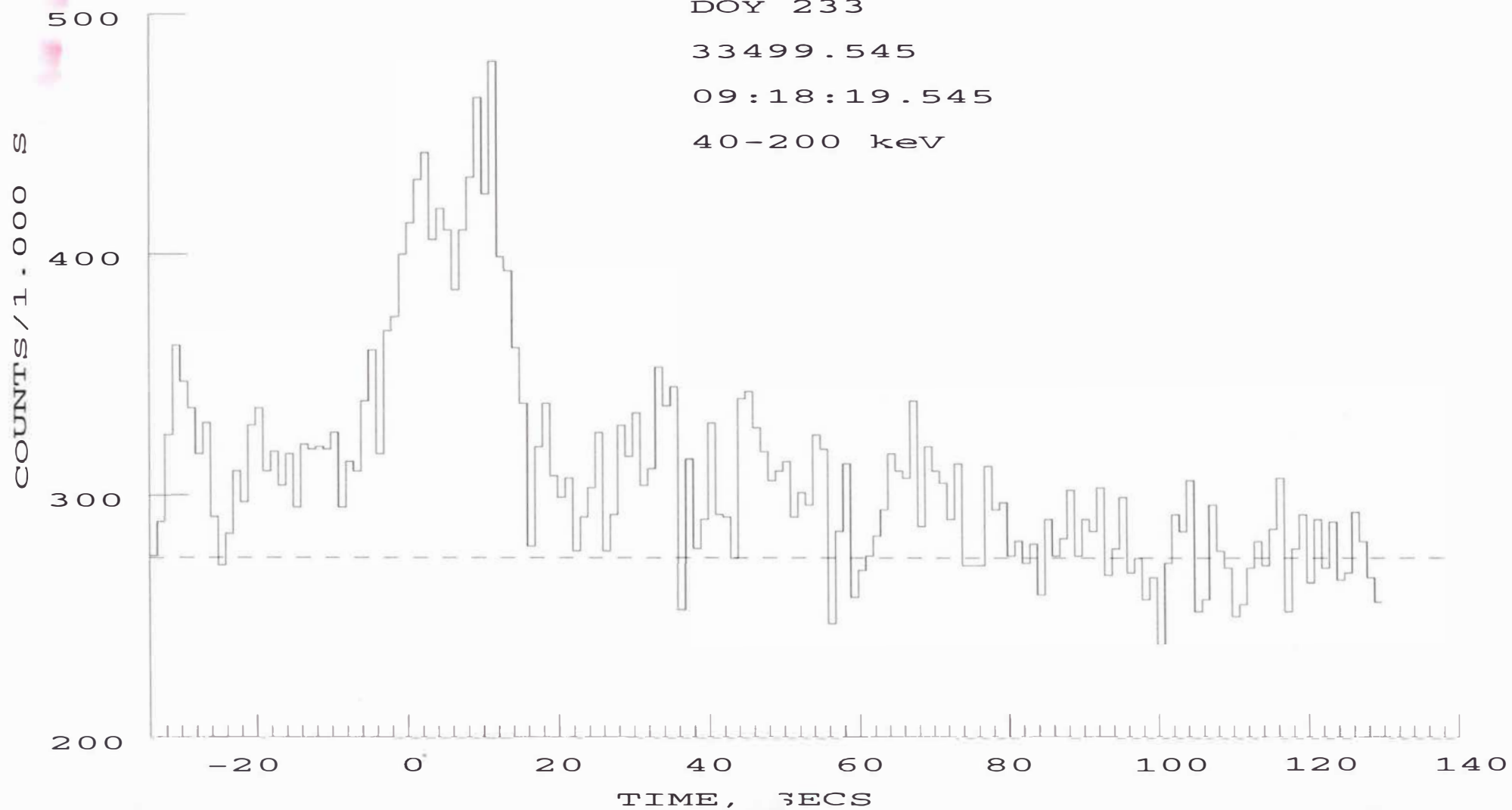
21/08/11

DOY 233

33499.545

09:18:19.545

40-200 keV



08/08/11

MESSENGER

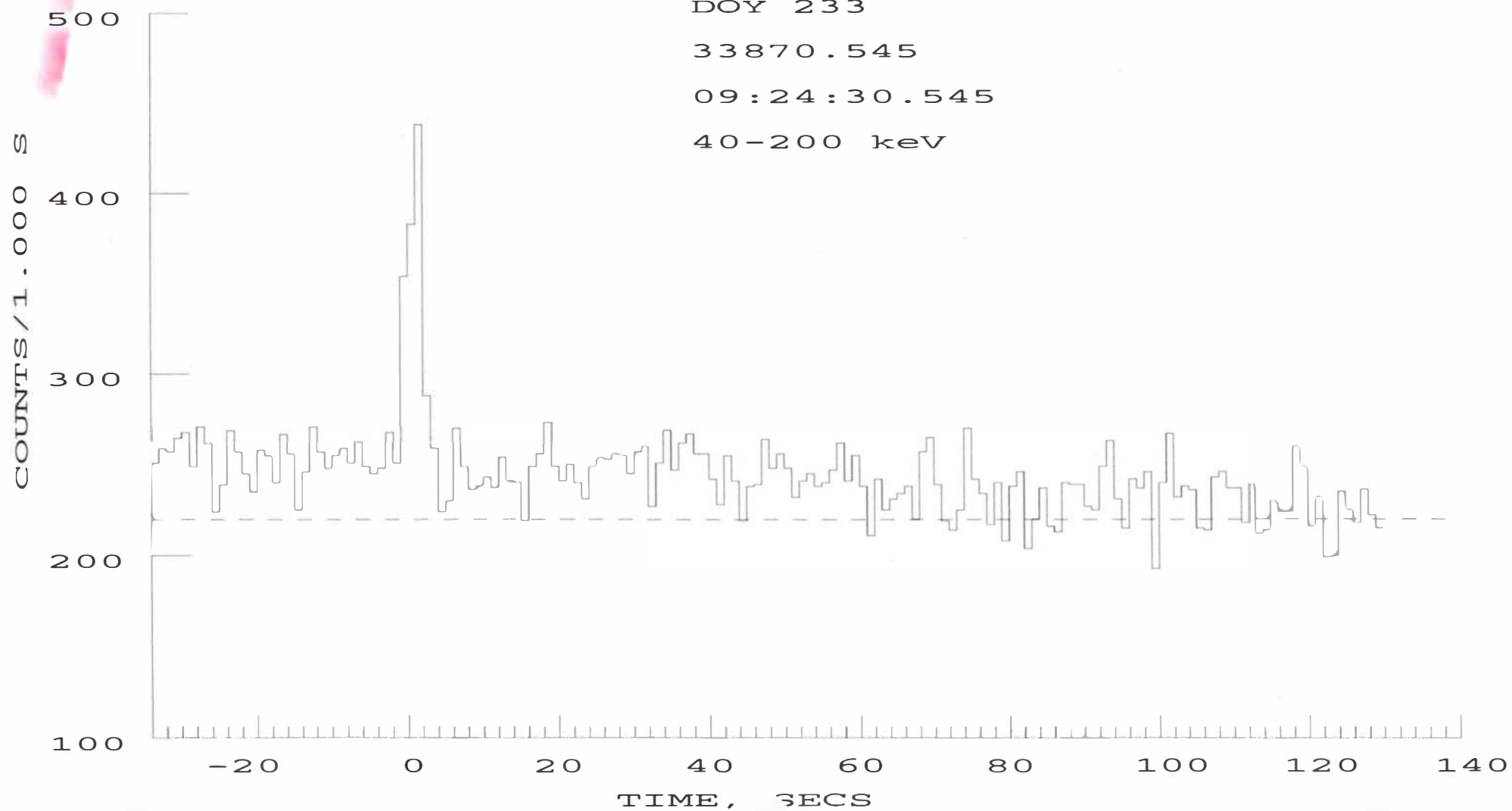
21/08/11

DOY 233

33870.545

09:24:30.545

40-200 keV



Date: _____

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)? **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?

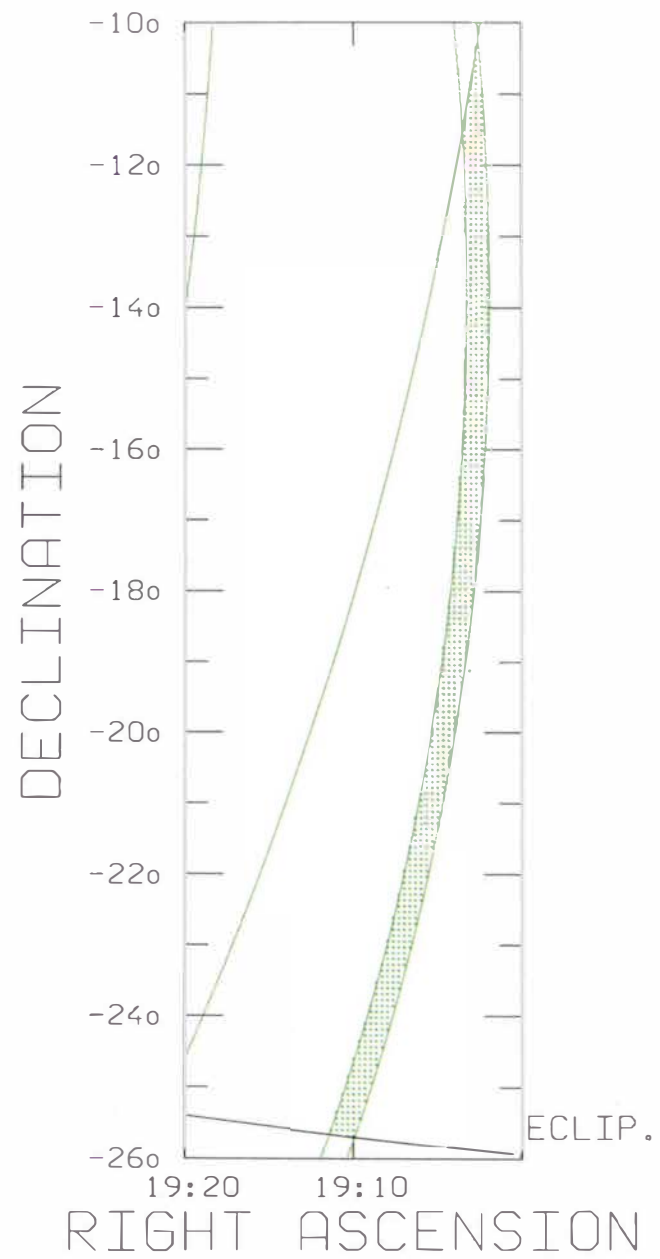
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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>)

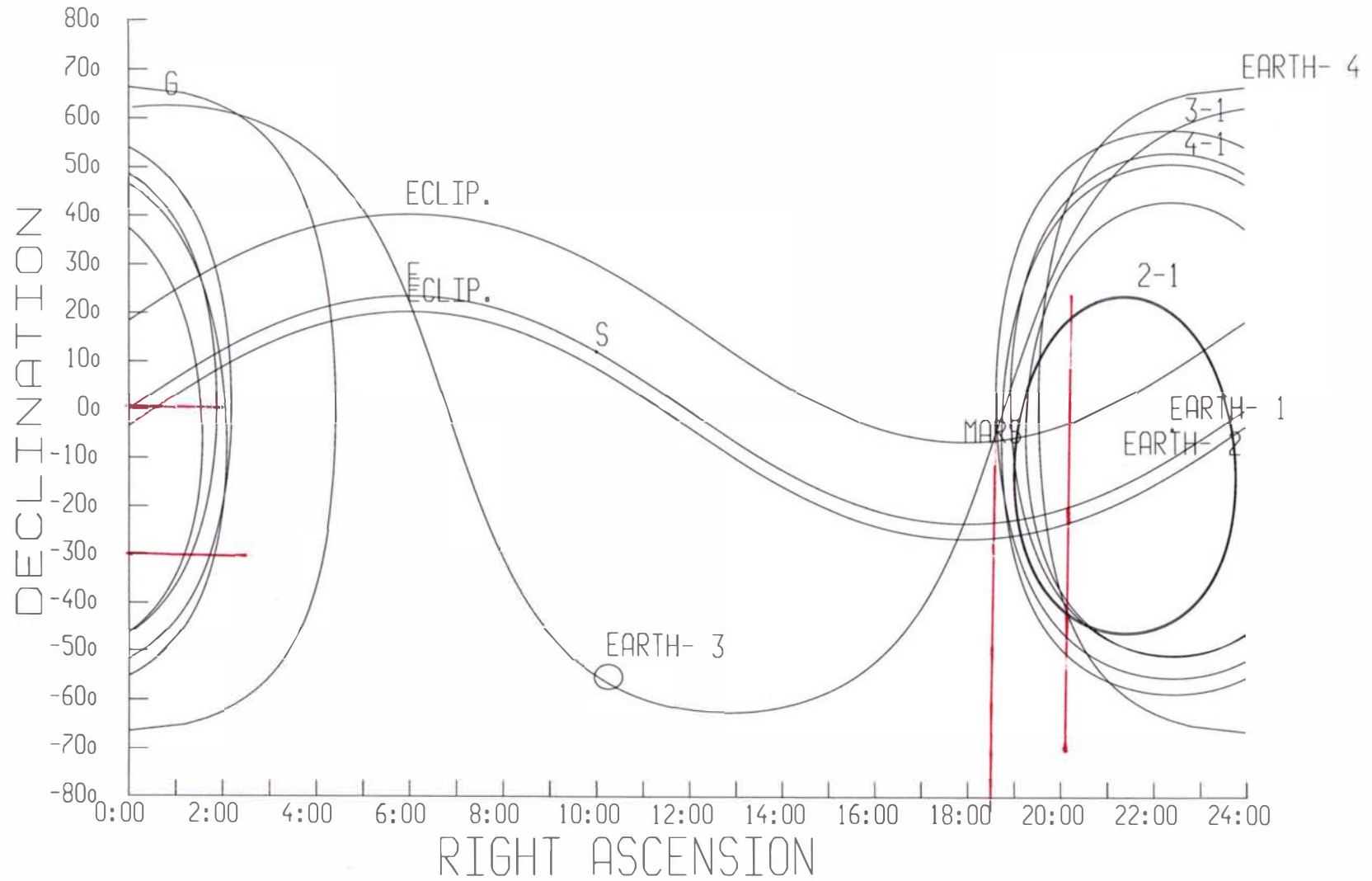
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

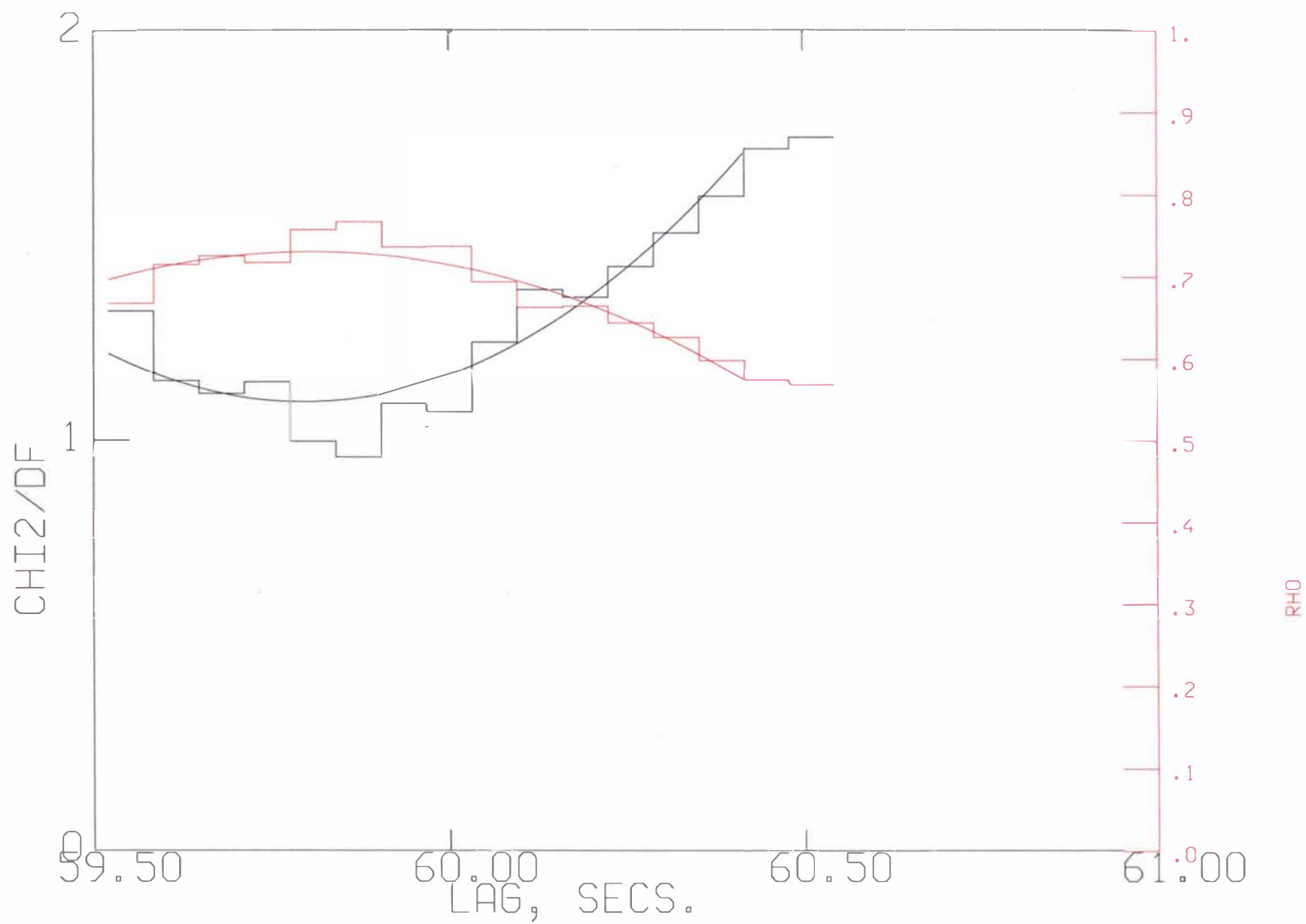


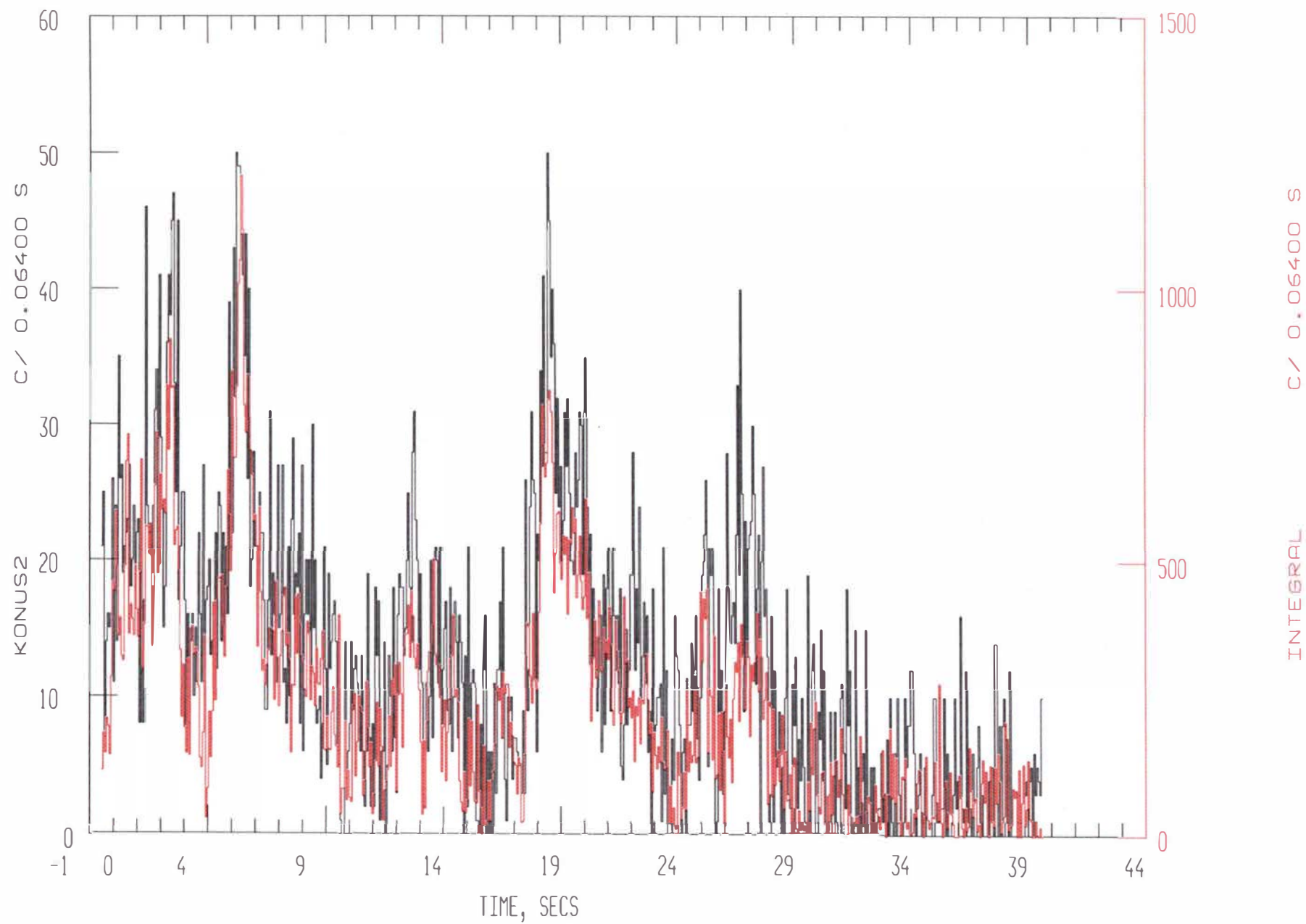
EVENT OF AUG 21, 2011 12:52

25/03/2013

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 MESSENGER 3 INTEGRAL 4 SWIFT







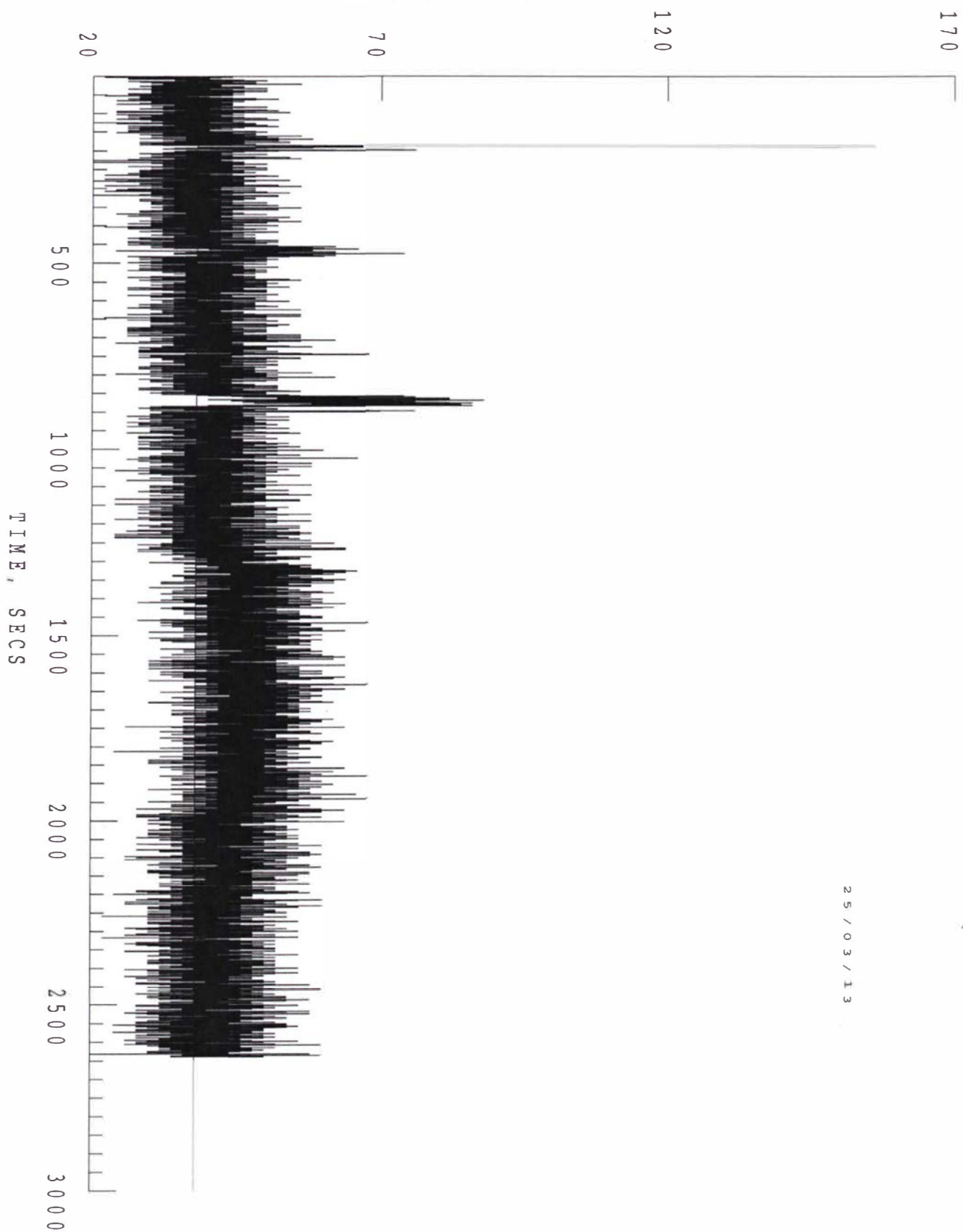
MS01

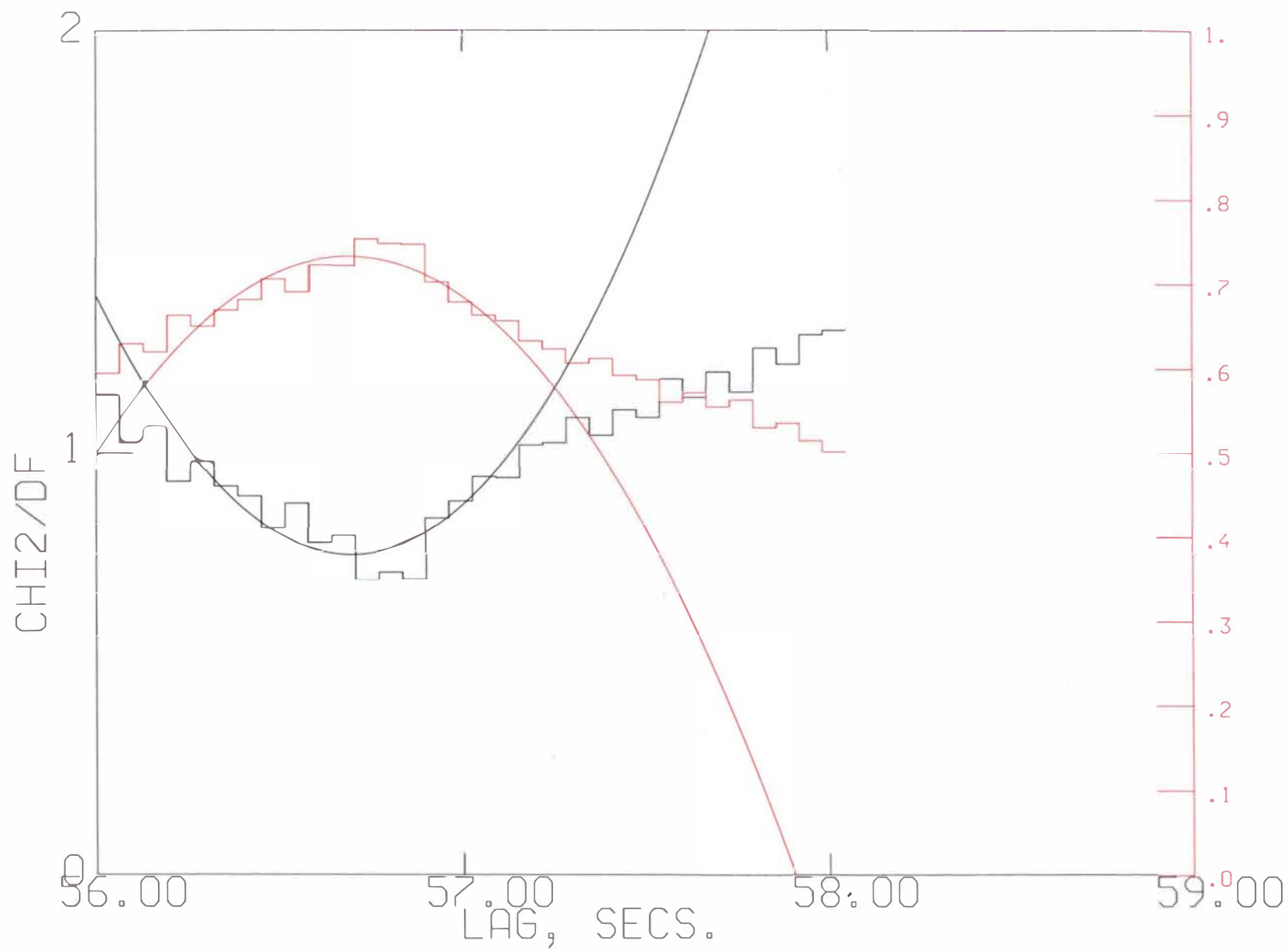
15/08/11

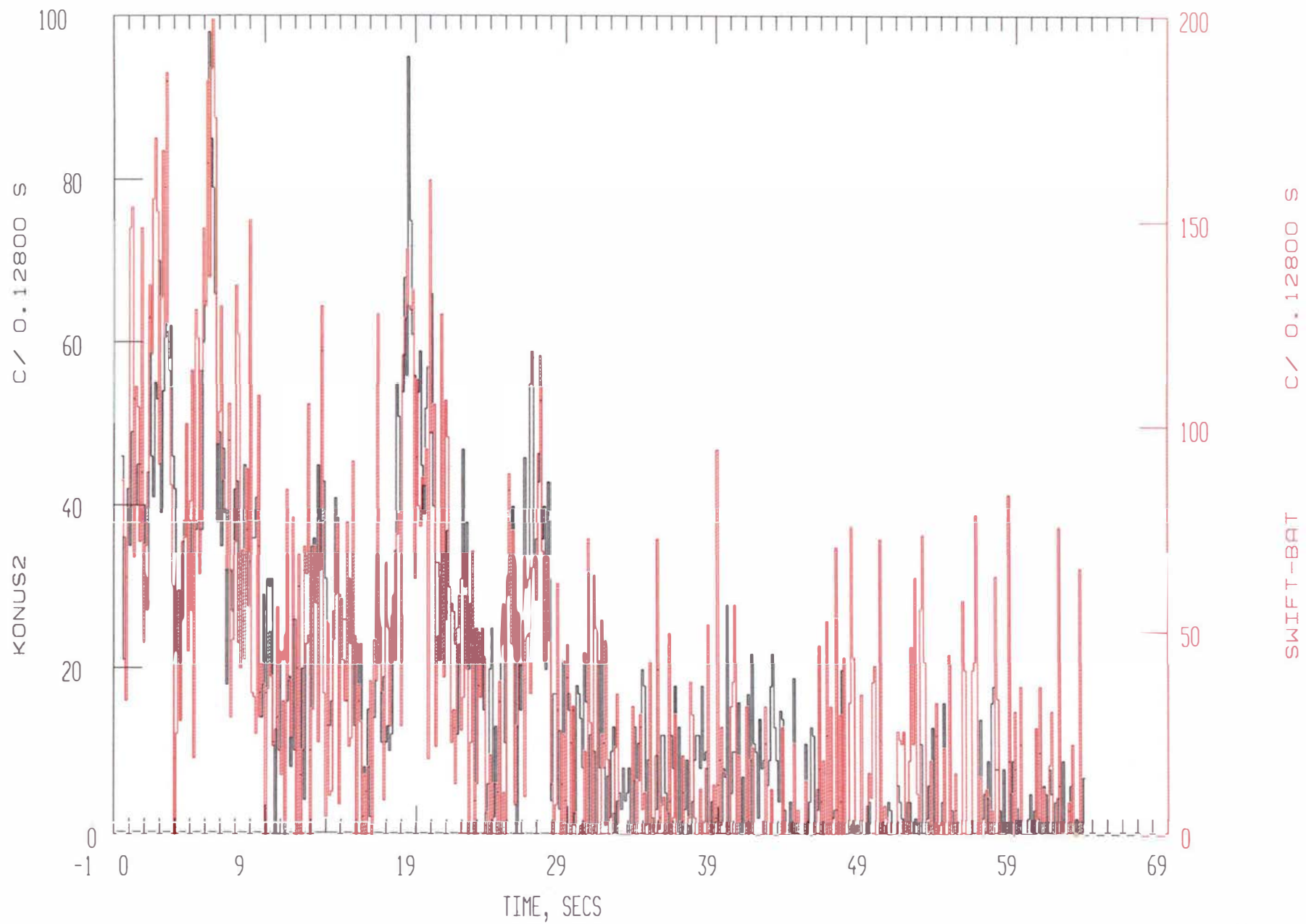
33673.430

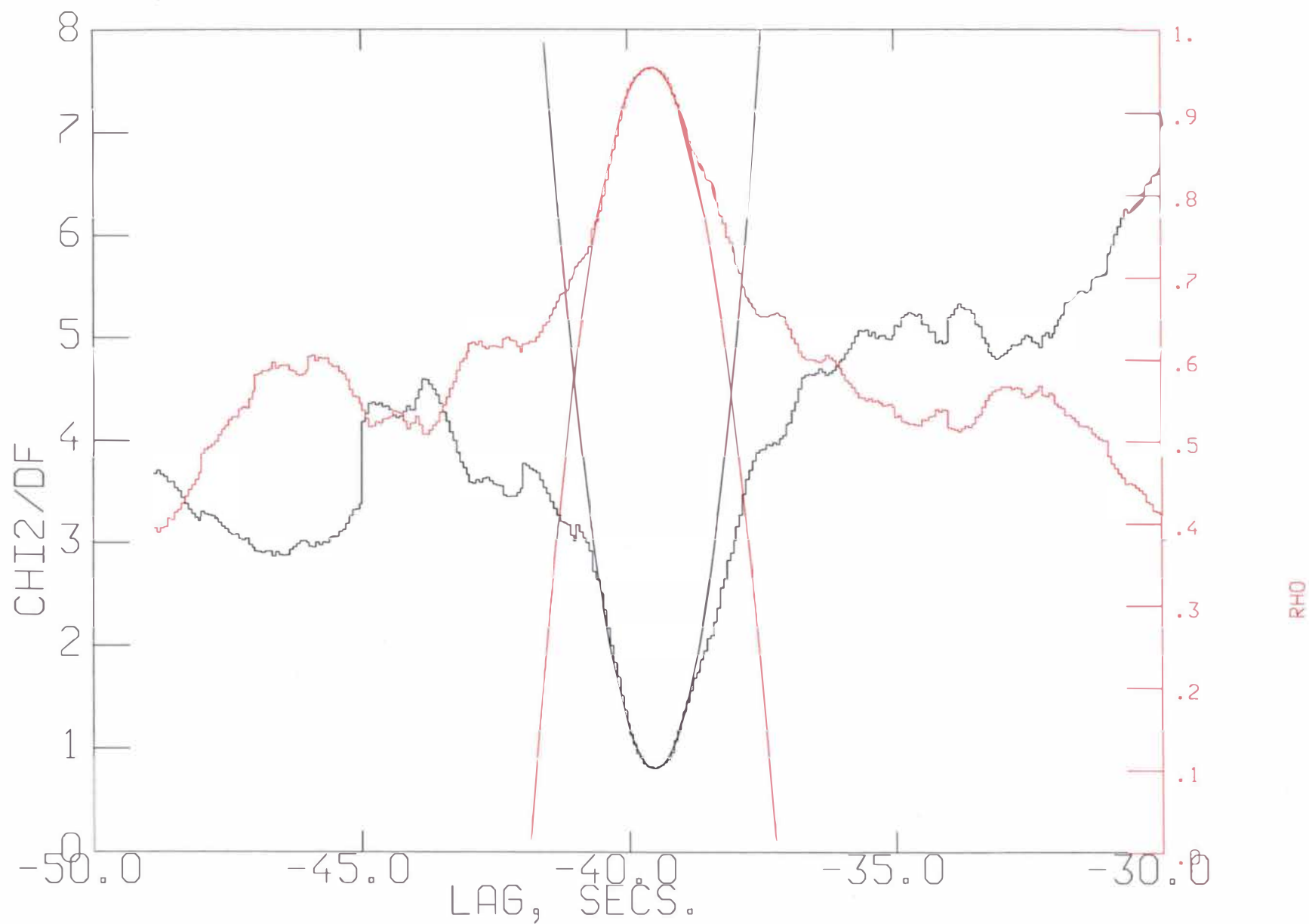
50 - 3000 keV

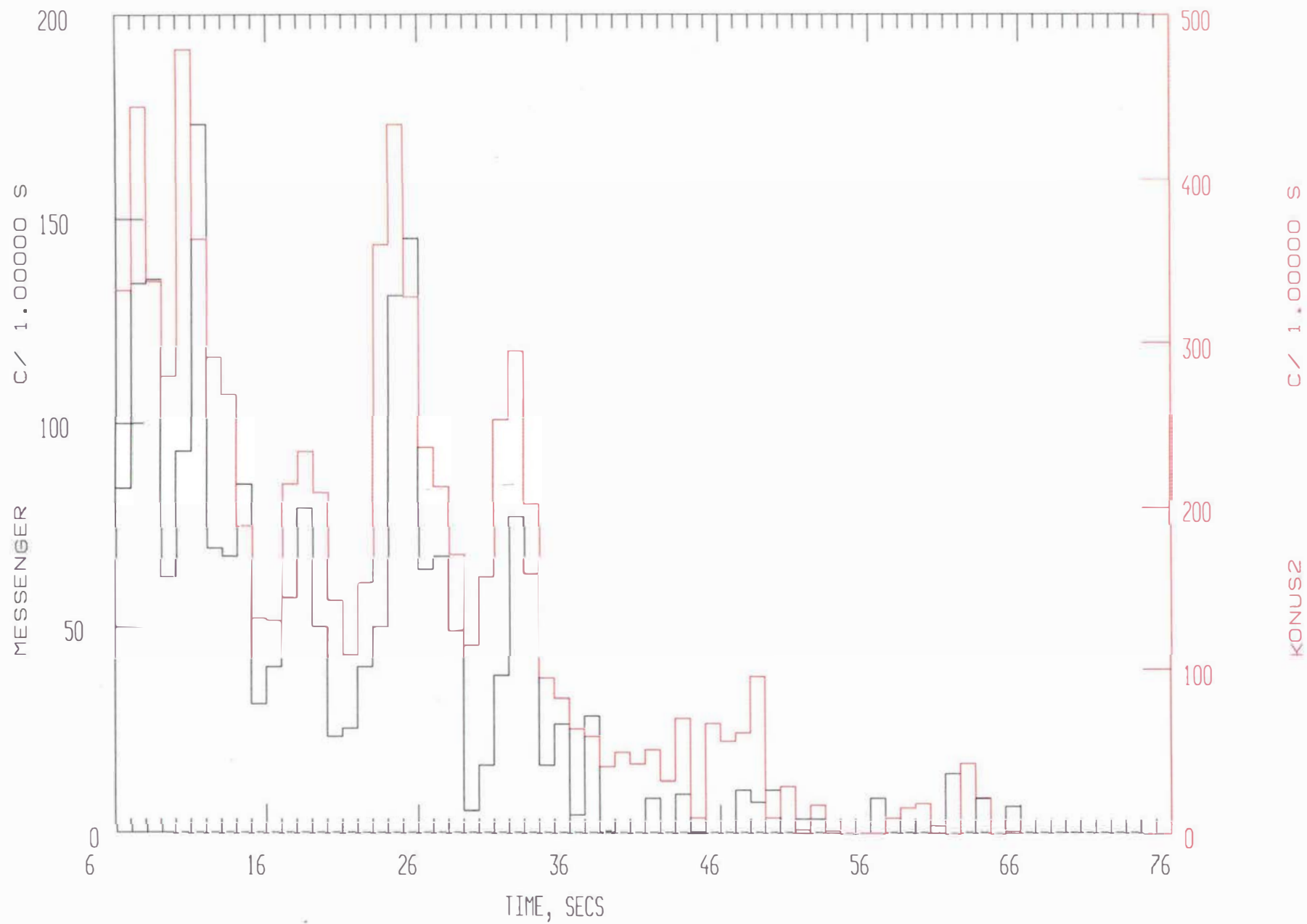
COUNTS/0.250 S









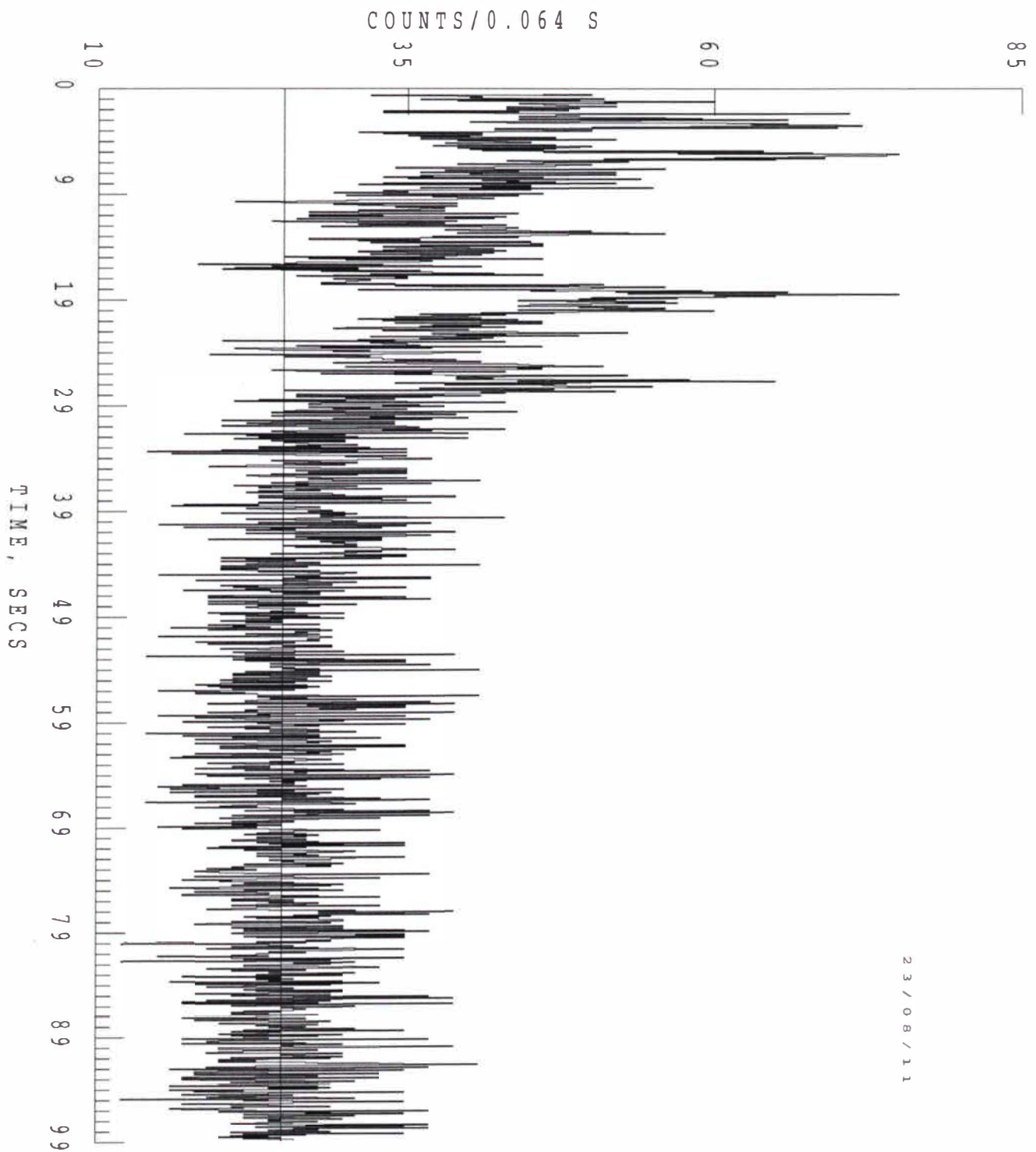


KONUS2

21/08/11

46332.872

50 - 200 keV



KONUS HRES 20110821 46332

TRIGGER TIME: 21/08/11 DOY 233 Julian 2455796.03625 UT = 12.870 12:52:12 (46332.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

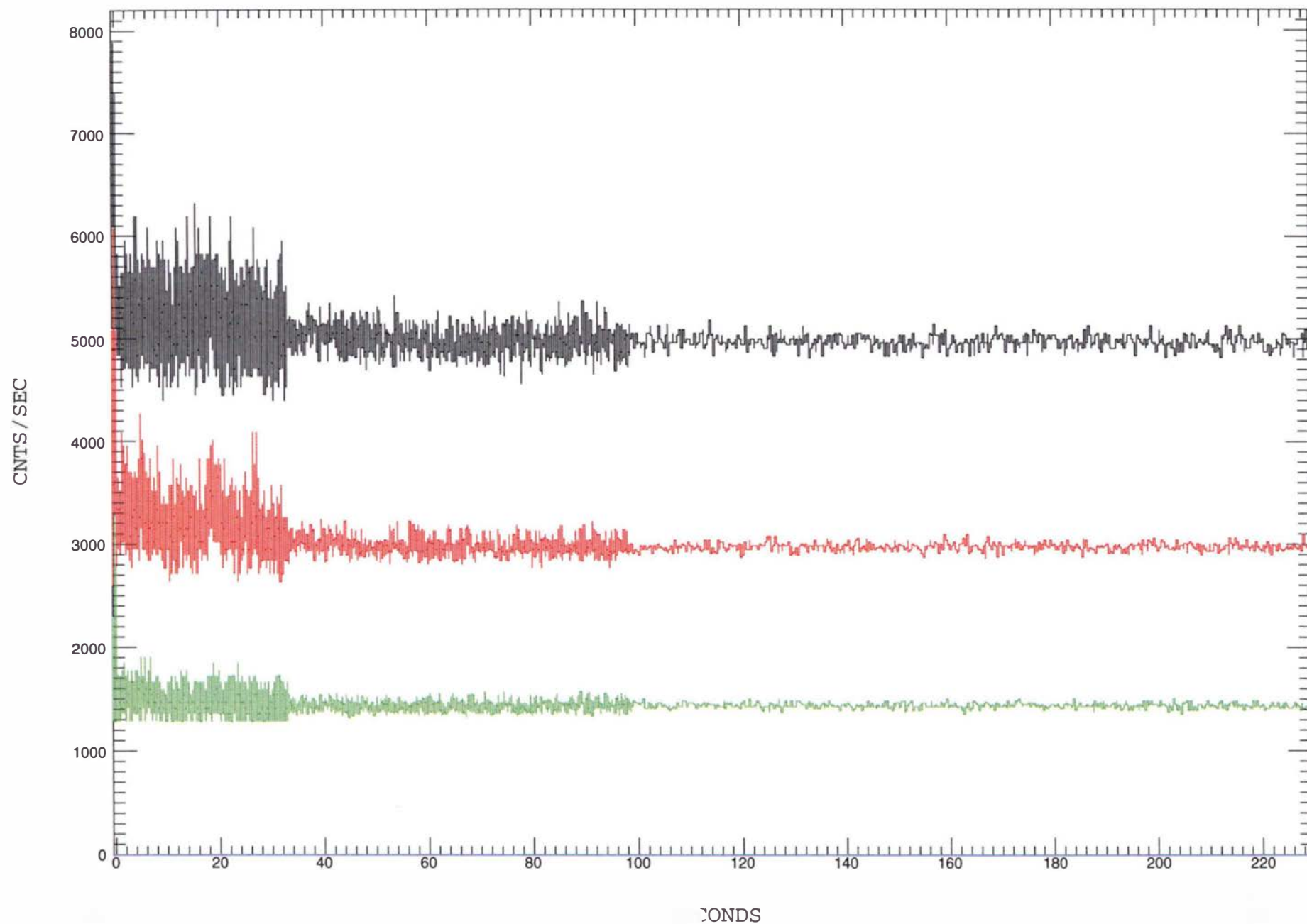
Chan 4 : [> 10 MeV]

Channel 1 + 3900

Channel 2 + 2600

Channel 3 + 1300

Channel 4 + 0



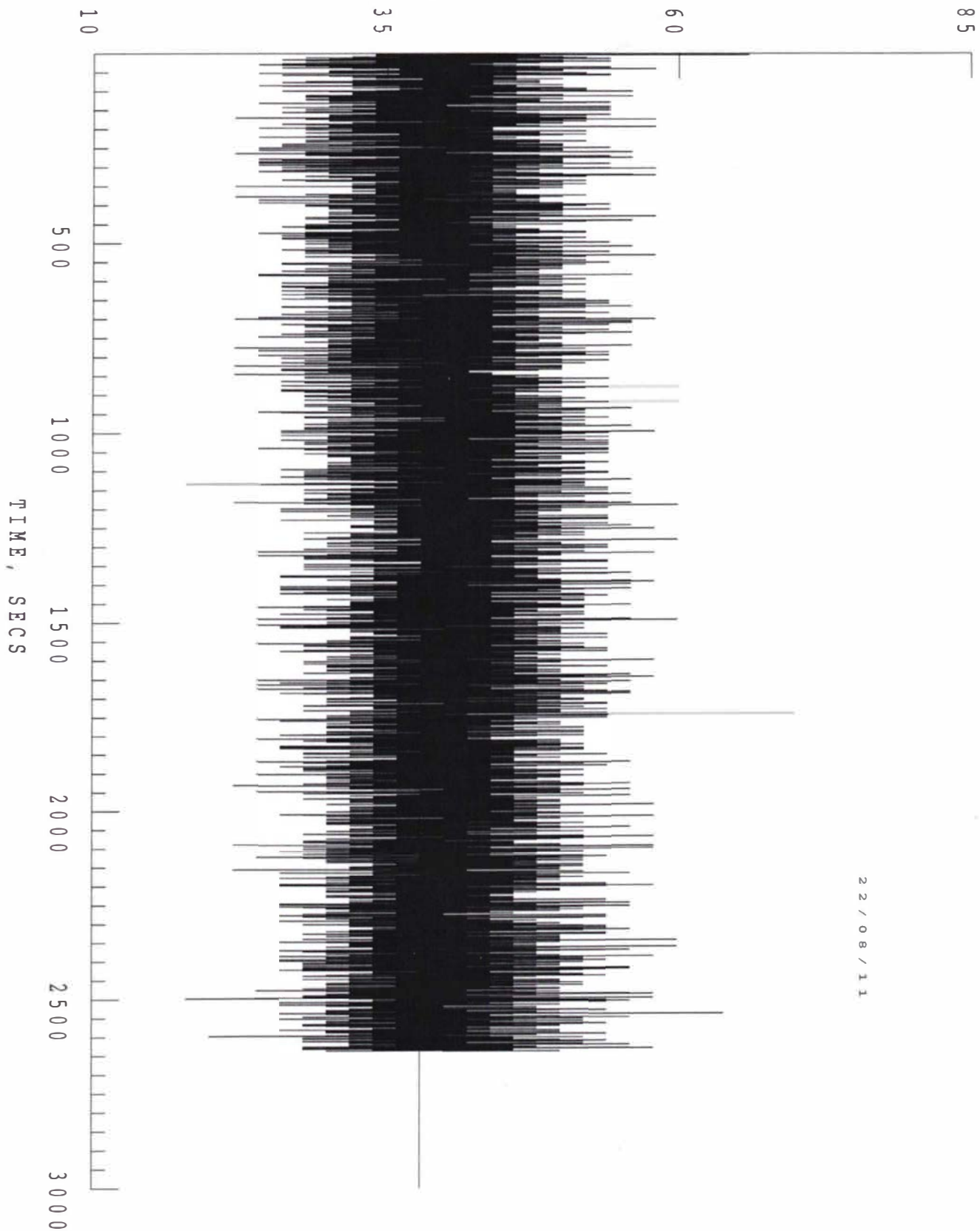
MS01

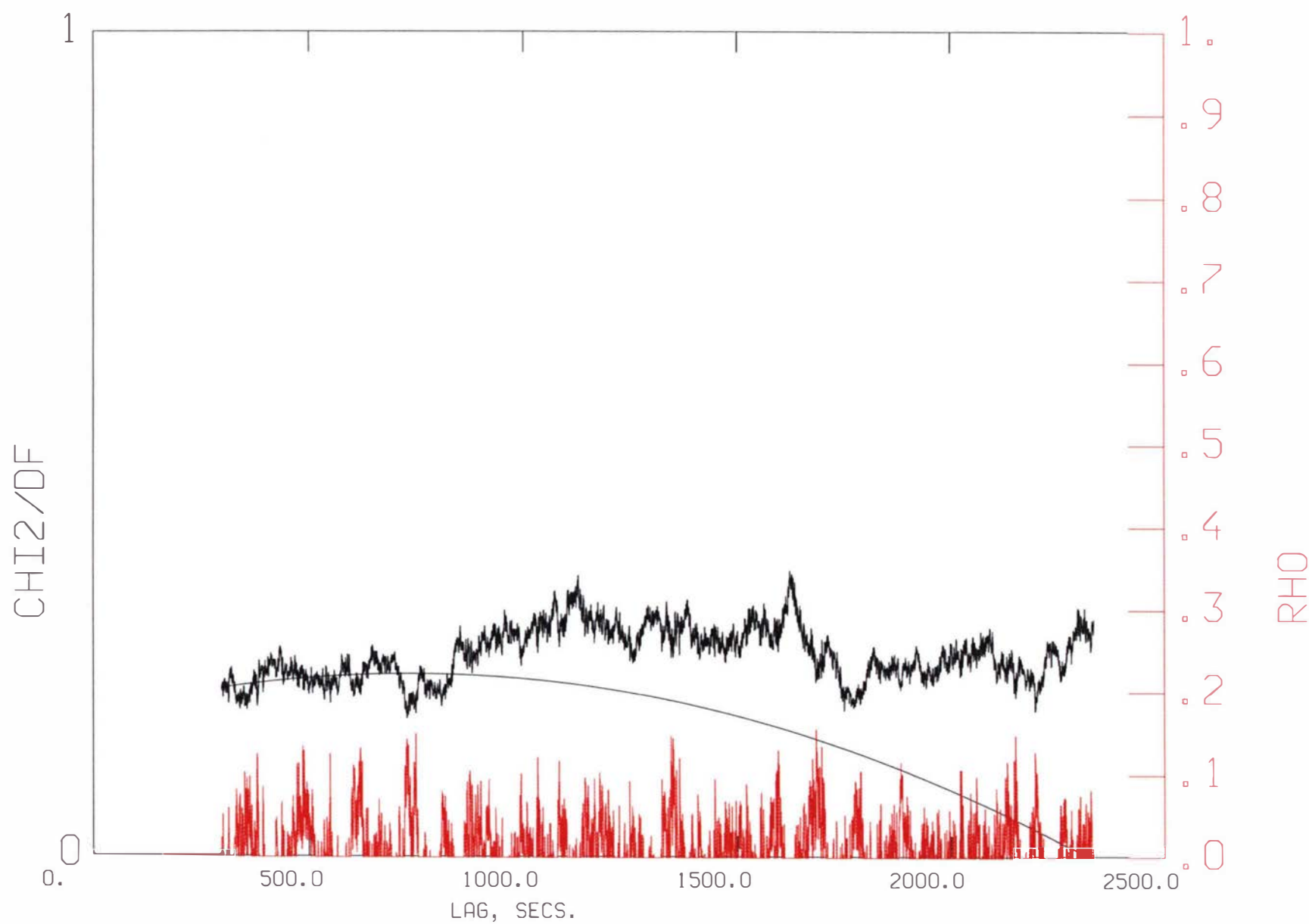
21/08/11

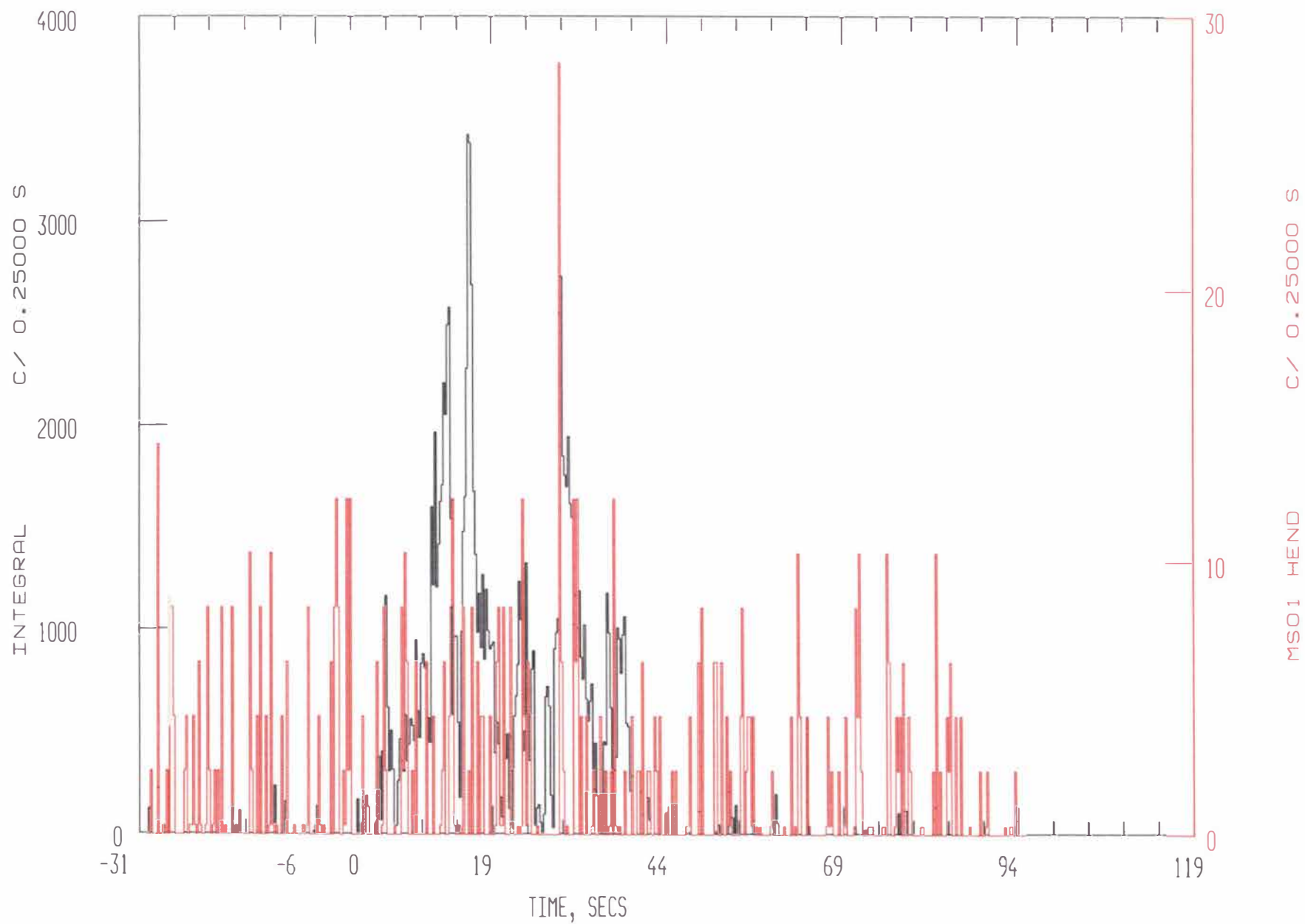
45004.488

50- 3000 keV

COUNTS/0.250 S







From williams@gammaburst.ssl.berkeley.edu Sat Aug 27 16:19:05 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Sat, 27 Aug 2011 16:18:24 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu

Subject: No RHESSI data for INTEGRAL 20110821_46319

X-Ucb-Scan-Signature: 87ef45b06elfbb76c70fce93c99a202d3994bd7d

X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.504'

X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 27-Aug-2011 16:19:10.00
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

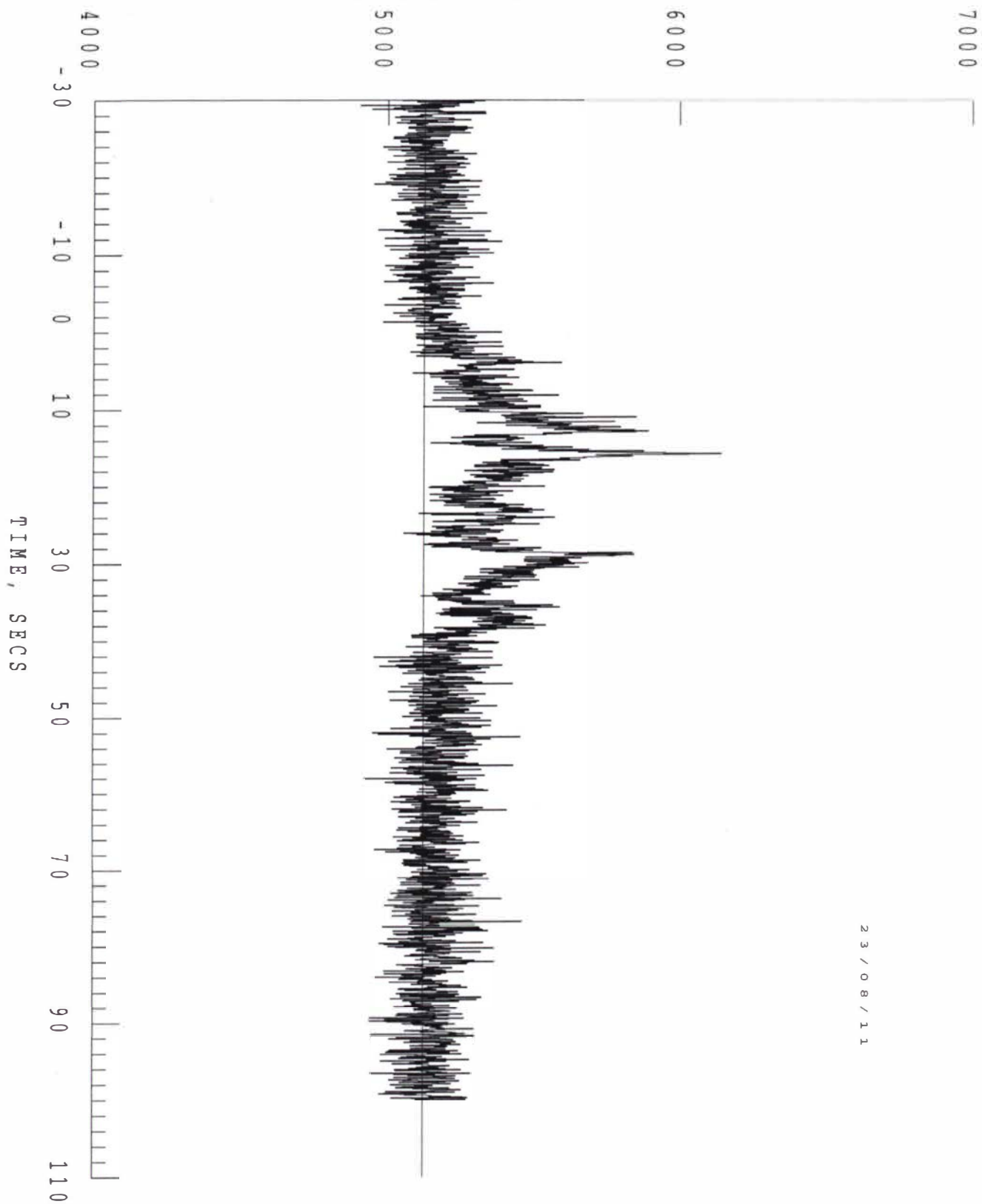
INTEGRAL

21/08/11

46319.785

100-10000 keV

COUNTS/0.050 S



23/08/11

Subject: [Ipn] BAT lightcurve for trigger at 110821_1252

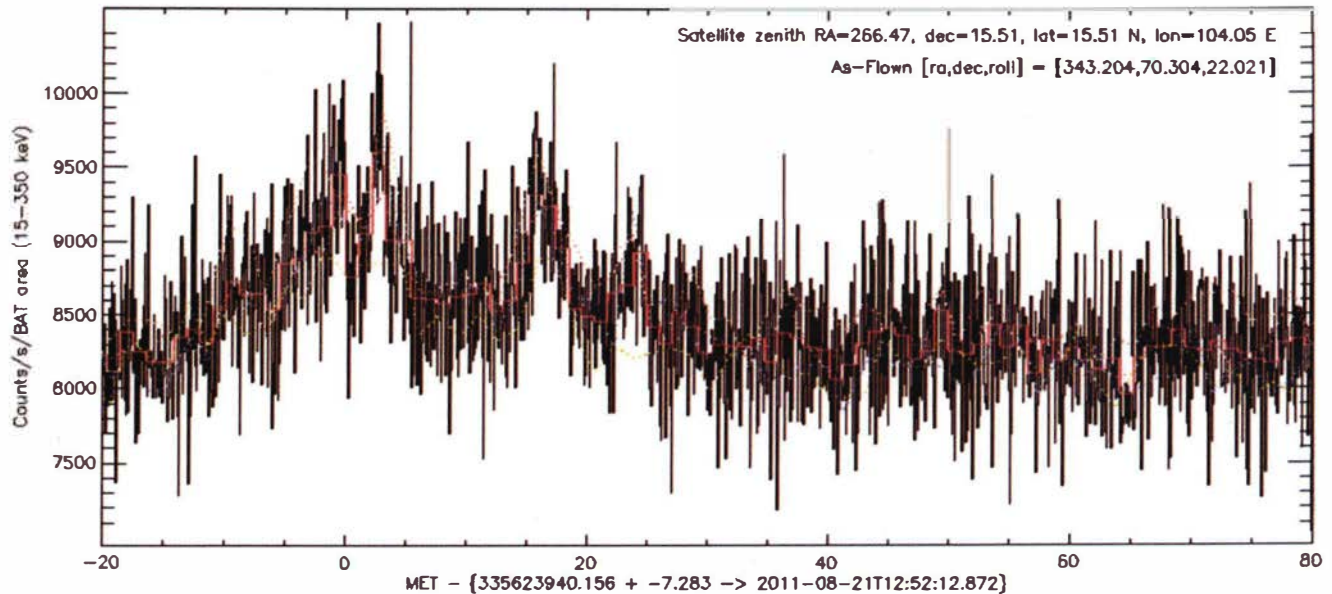
From: palmer+automatic_lightcurve@lanl.gov

Date: Sun, 21 Aug 2011 17:48:49 -0600 (MDT)

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

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

/tmp/110821_1252.png



```
% /usr/local/bin/swinfo -o 335623940.155
Time(MET + UTC -> UT):      335623940.156 + -7.283 -> 2011-08-21T12:52:12.872
Swift Zenith(RA,dec):       266.47, 15.51
Swift Location(lon,lat,alt): 104.05 E, 15.51 N, 581 km
Obs Sequence Number:        00501095001
Obs Target Name:             N/A
Obs Date and Times:          2011-08-21 12:36:44 - 13:17:14
Obs Pointing(ra,dec,roll):   343.204, 70.304, 22.02
```

--
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>

/tmp/110821_1252.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110821_1252_bat64ms_ipn

/tmp/110821_1252_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

08/08/11

MESSENGER

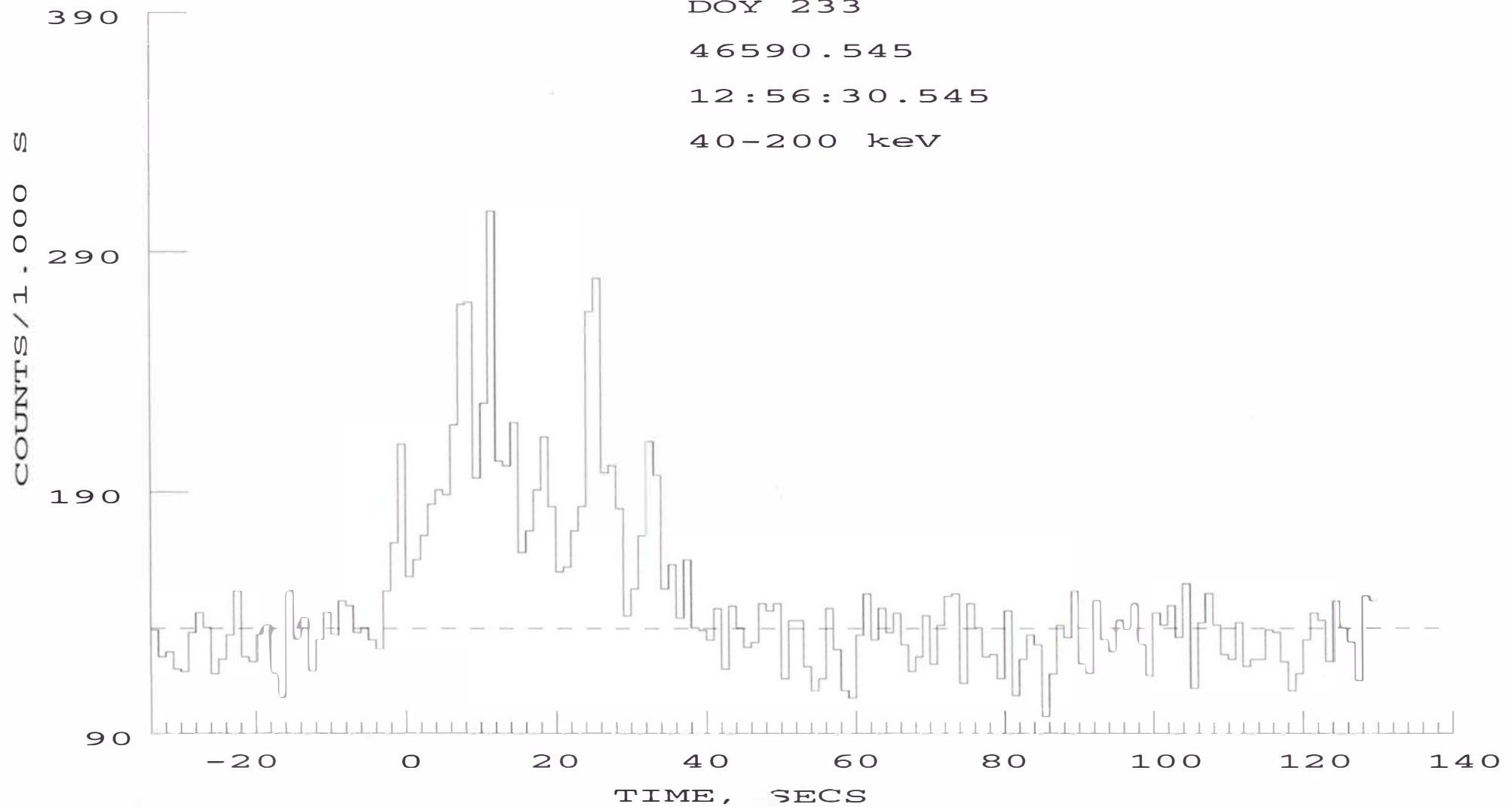
21/08/11

DOY 233

46590.545

12:56:30.545

40-200 keV



08/08/11

MESSENGER

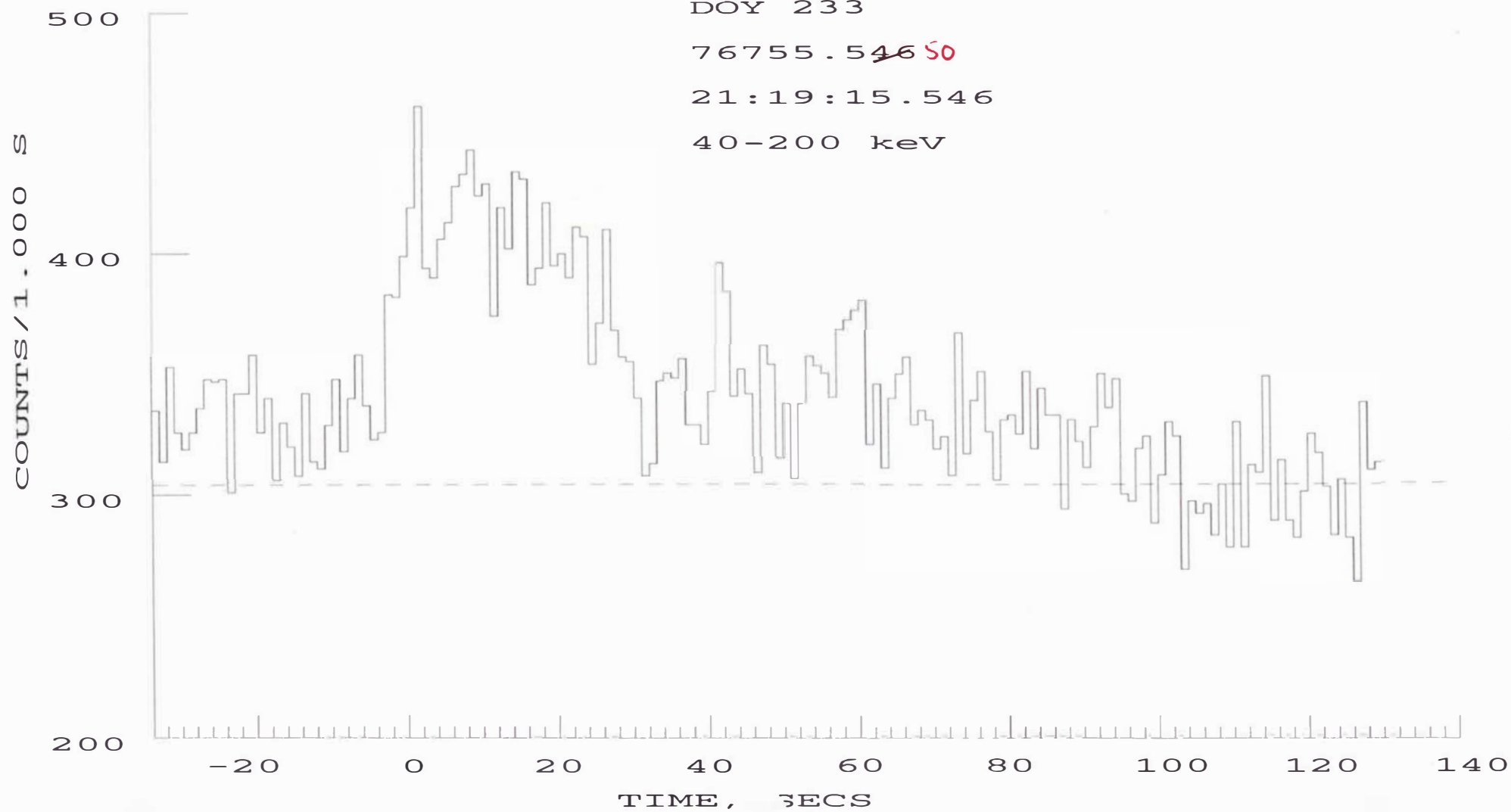
21/08/11

DOY 233

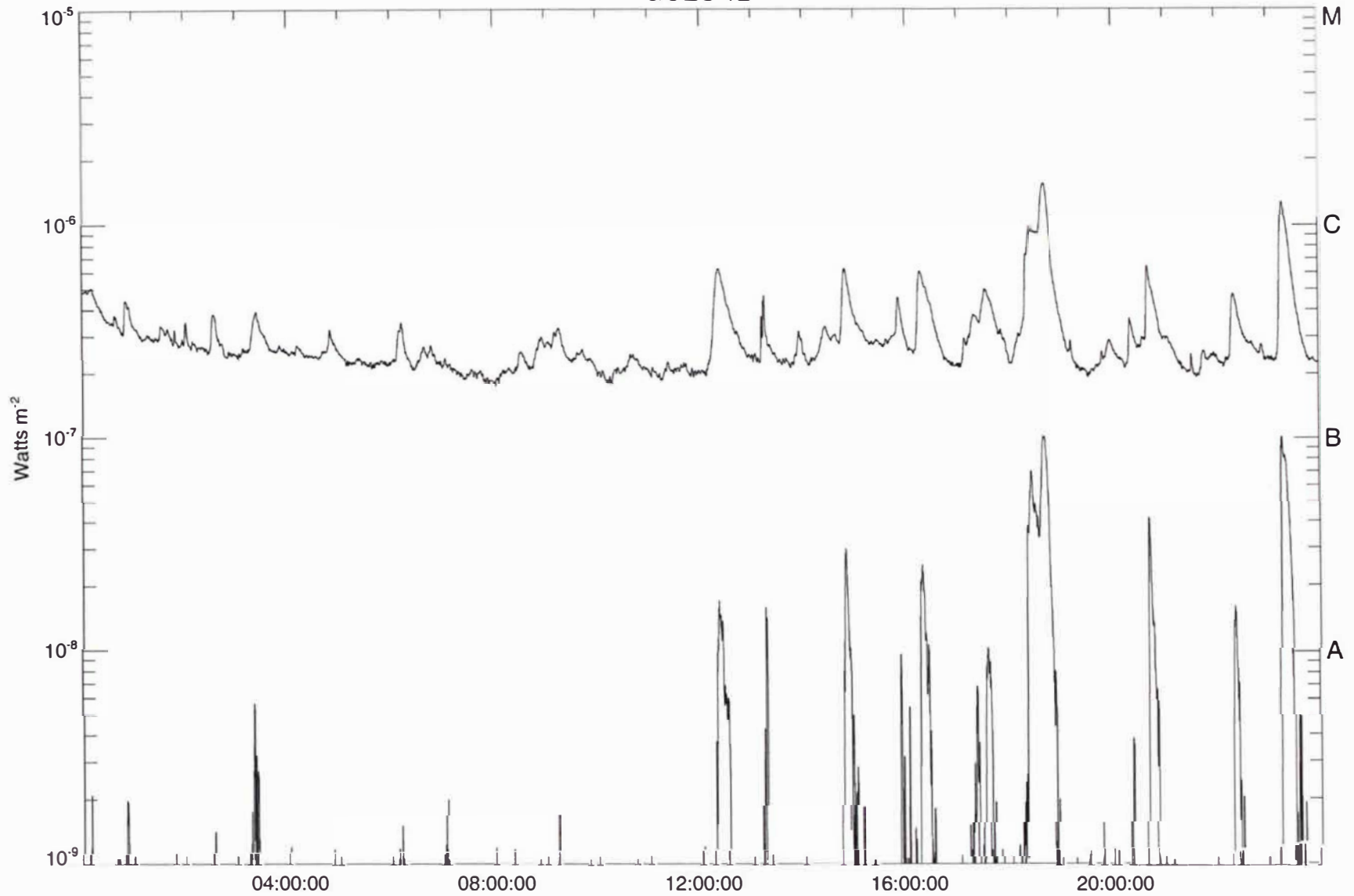
76755.546 ~~So~~

21:19:15.546

40-200 keV



GOES 12



Data Start: 11/08/21, 0000:09

Plot created: 11/08/24, 0833

Channel

1 (1.0 - 8.0 Angstroms)

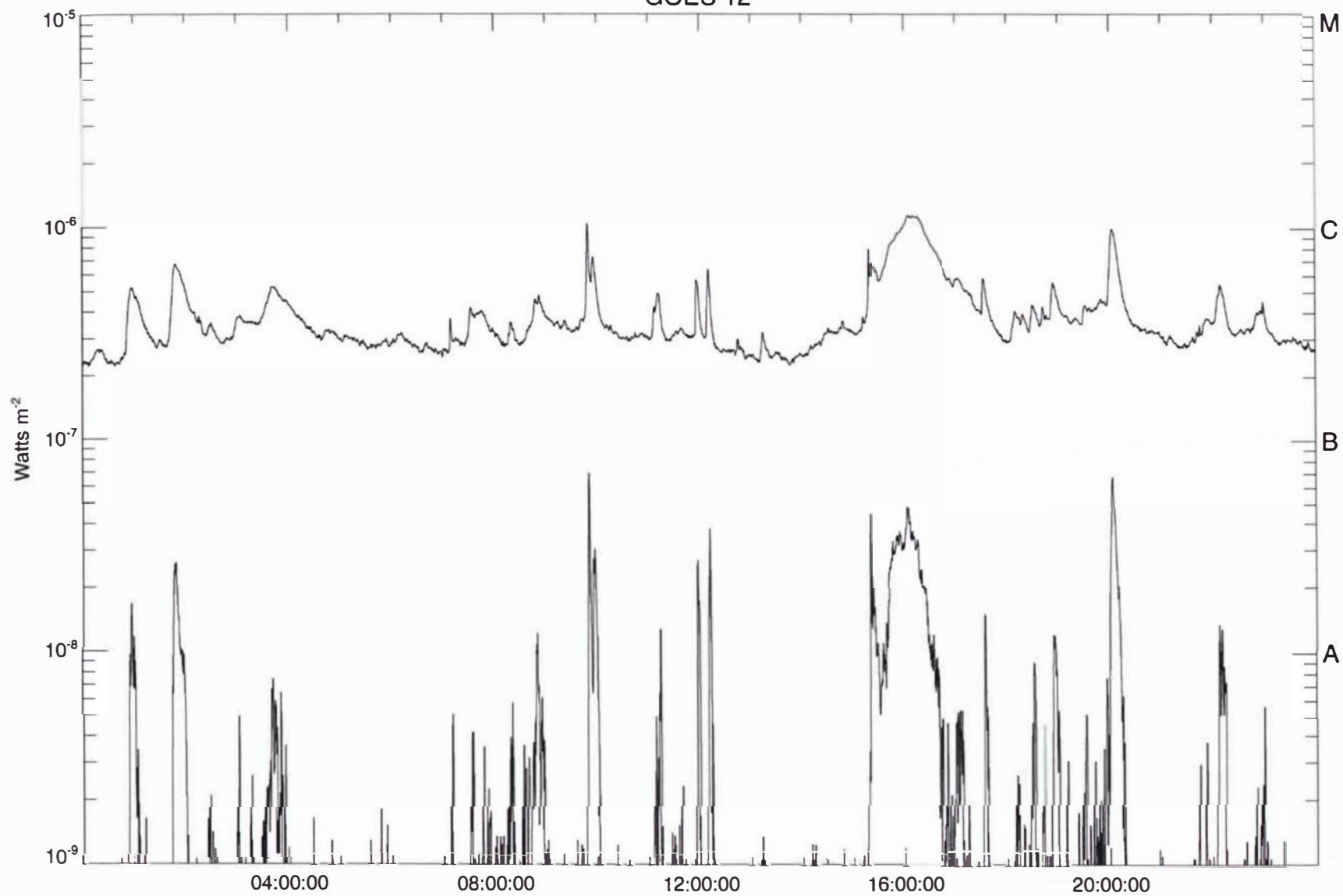
Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

GOES 12



Data Start: 11/08/22, 0000:09

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 11/08/25, 0833

Sample average = 10

C

From williams@gammaburst.ssl.berkeley.edu Fri Aug 5 02:34:48 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Fri, 5 Aug 2011 02:34:00 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for SWIFT 20110801_71382
X-Ucb-Scan-Signature: 7f3d53afa57affee9e42d1f6e14db97431d12b39
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.804'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 5-Aug-2011 02:34:03.00
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

MS01

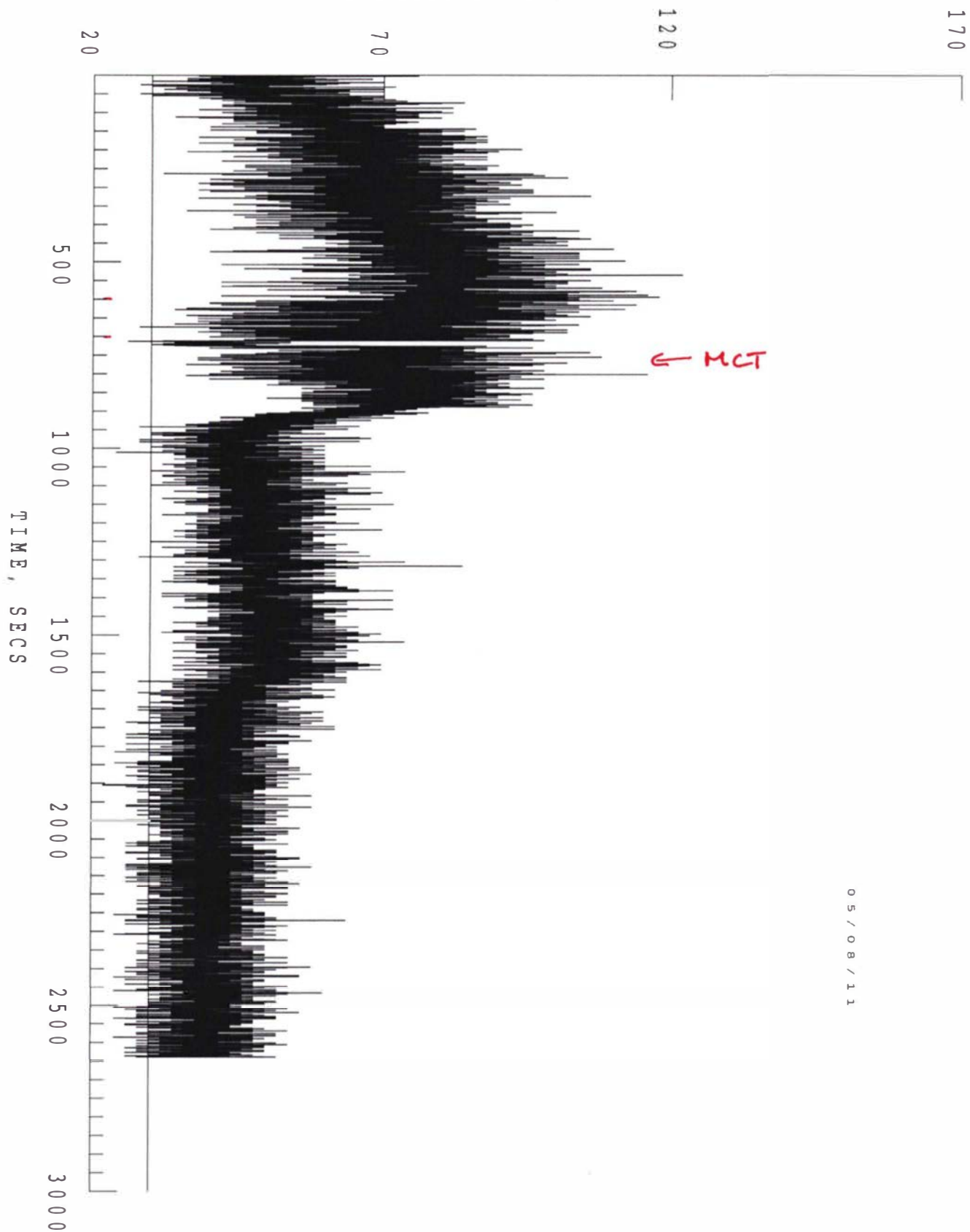
01/08/11

70053.100

50 - 3000 keV

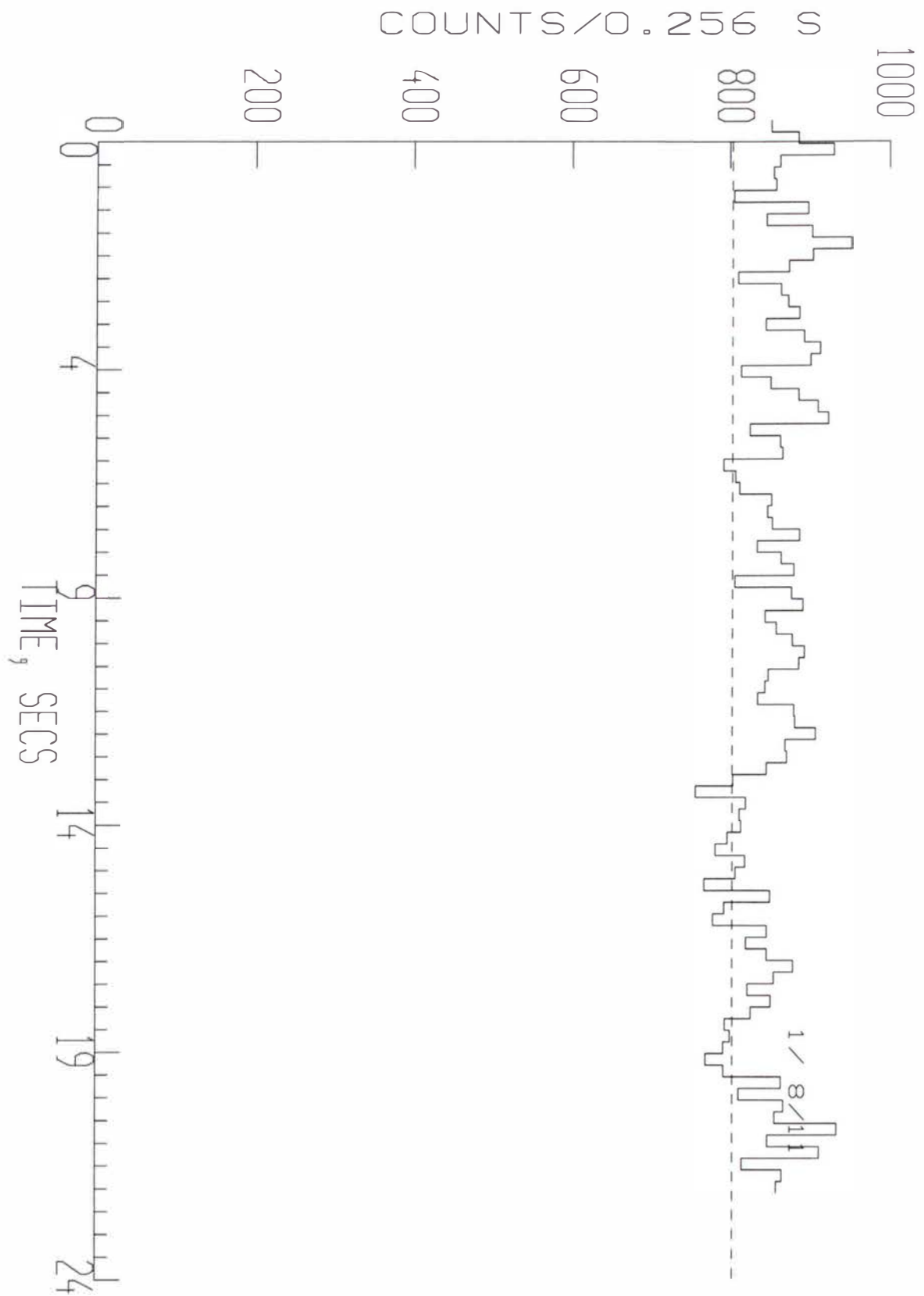
C

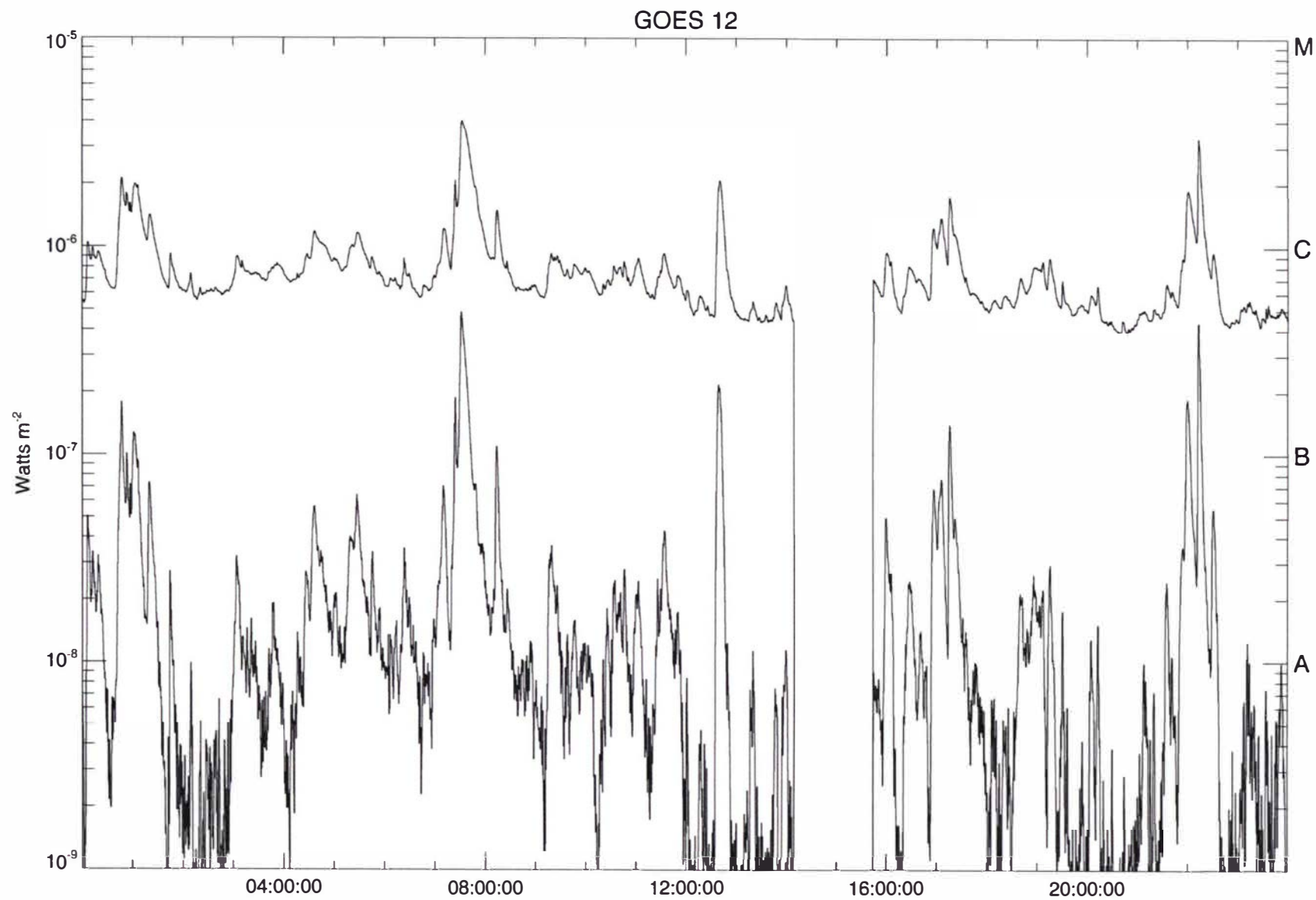
COUNTS/0.250 S



c

SWIFT 01/08/11 71382.991
25- 100 keV





Data Start: 11/08/01, 0000:09

Plot created: 11/08/04, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

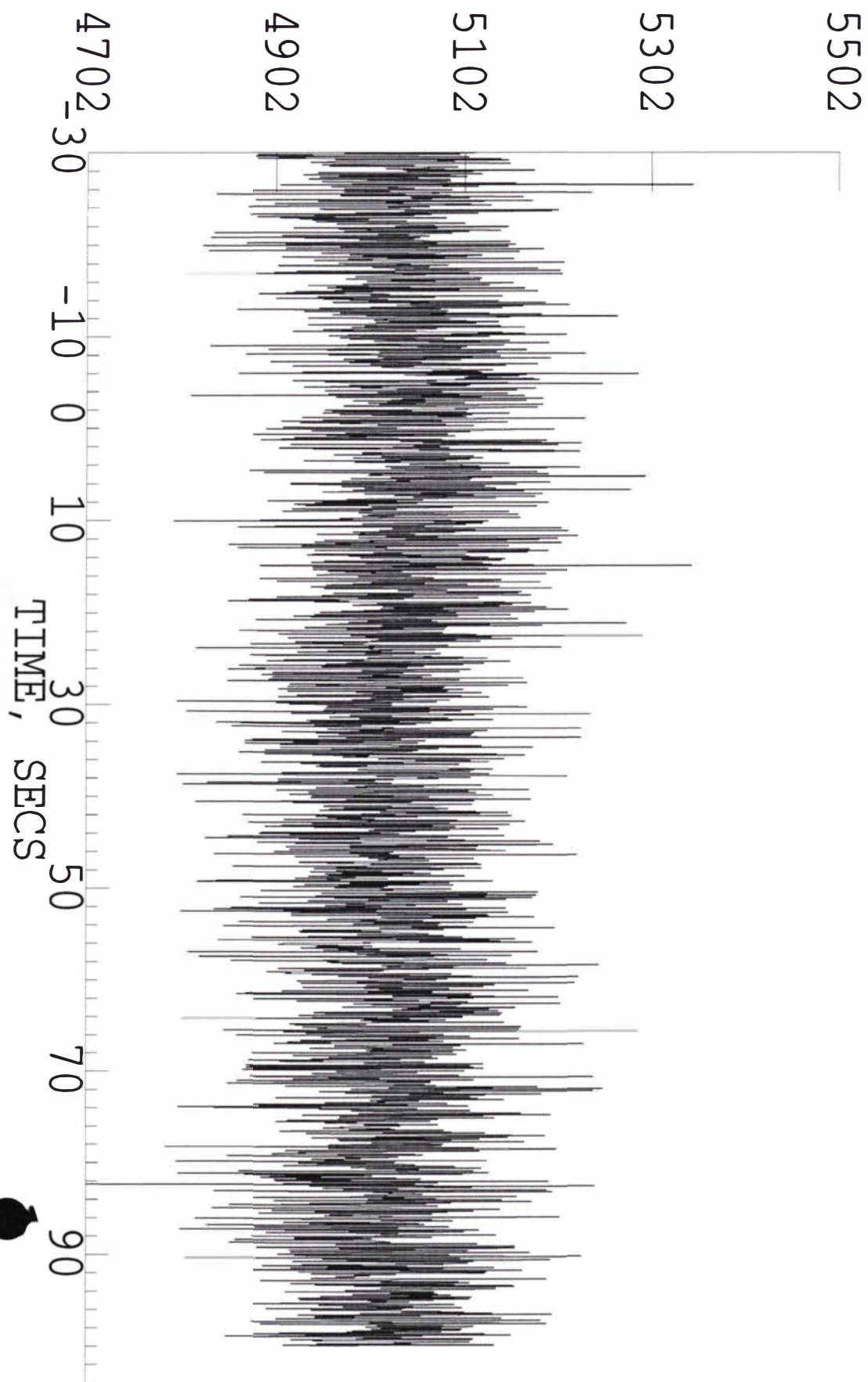
Sample average = 10

INTEGRAL 01/08/11 71381.977 19:49:41.9

C

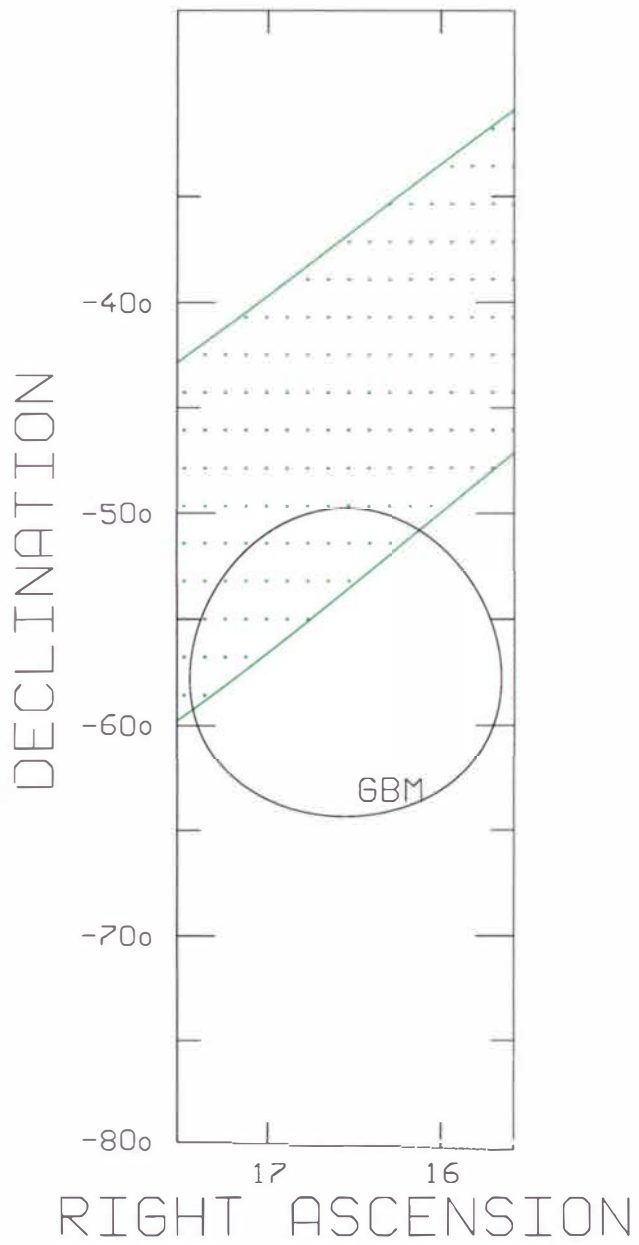
100-10000 keV

COUNTS/ .050 S



GRB110801 ~28902 S

10/07/2020



From williams@gammaburst.ssl.berkeley.edu Mon Aug 1 22:00:45 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 1 Aug 2011 21:59:58 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20110801_03193
X-Ucb-Scan-Signature: 4903141b8c13a53052ce909ebf5eaeb05f17be22
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.806'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 1-Aug-2011 21:59:55.00
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

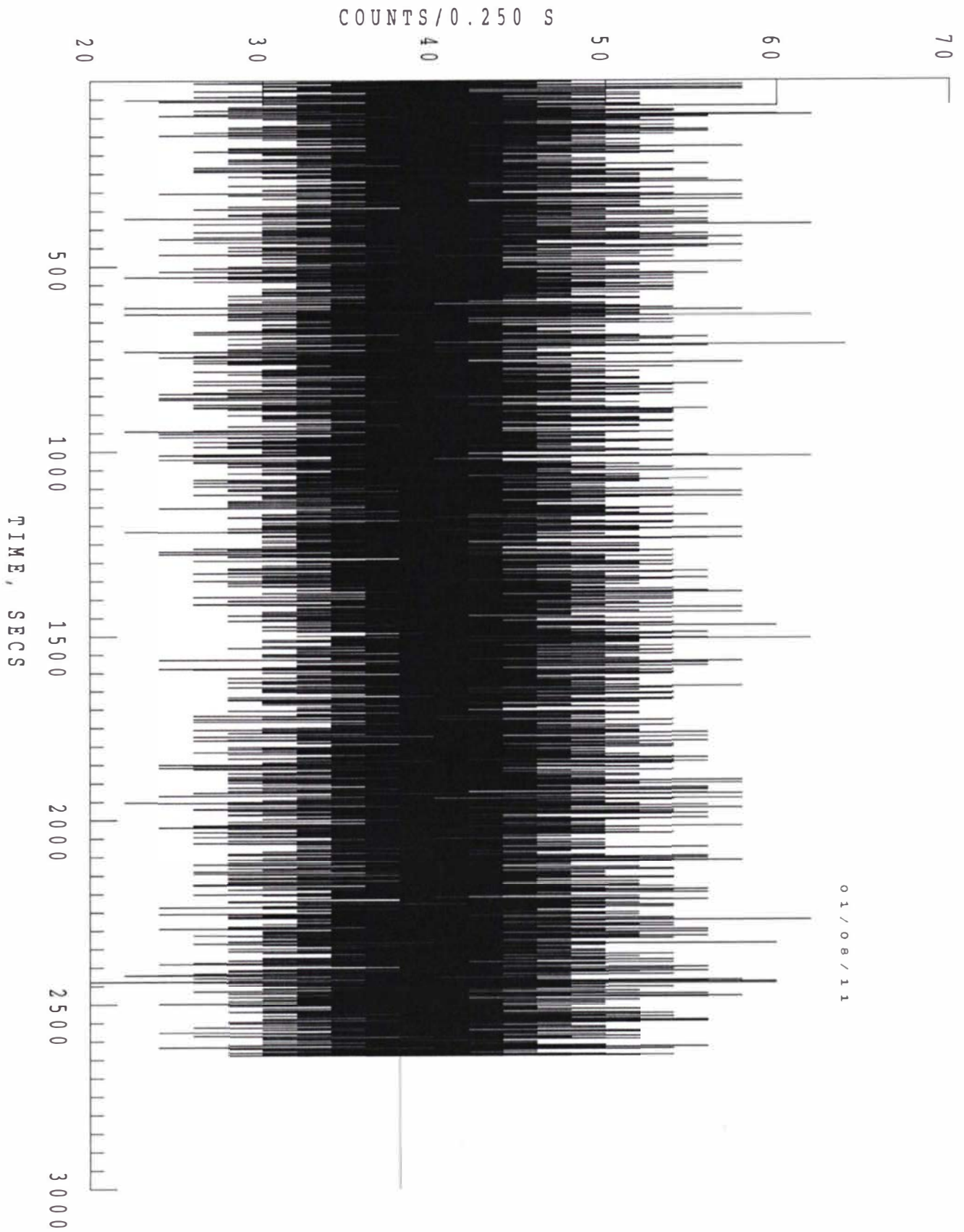
MS01

01/08/11

1834.241

A

50 - 3000 keV



SUZAKU

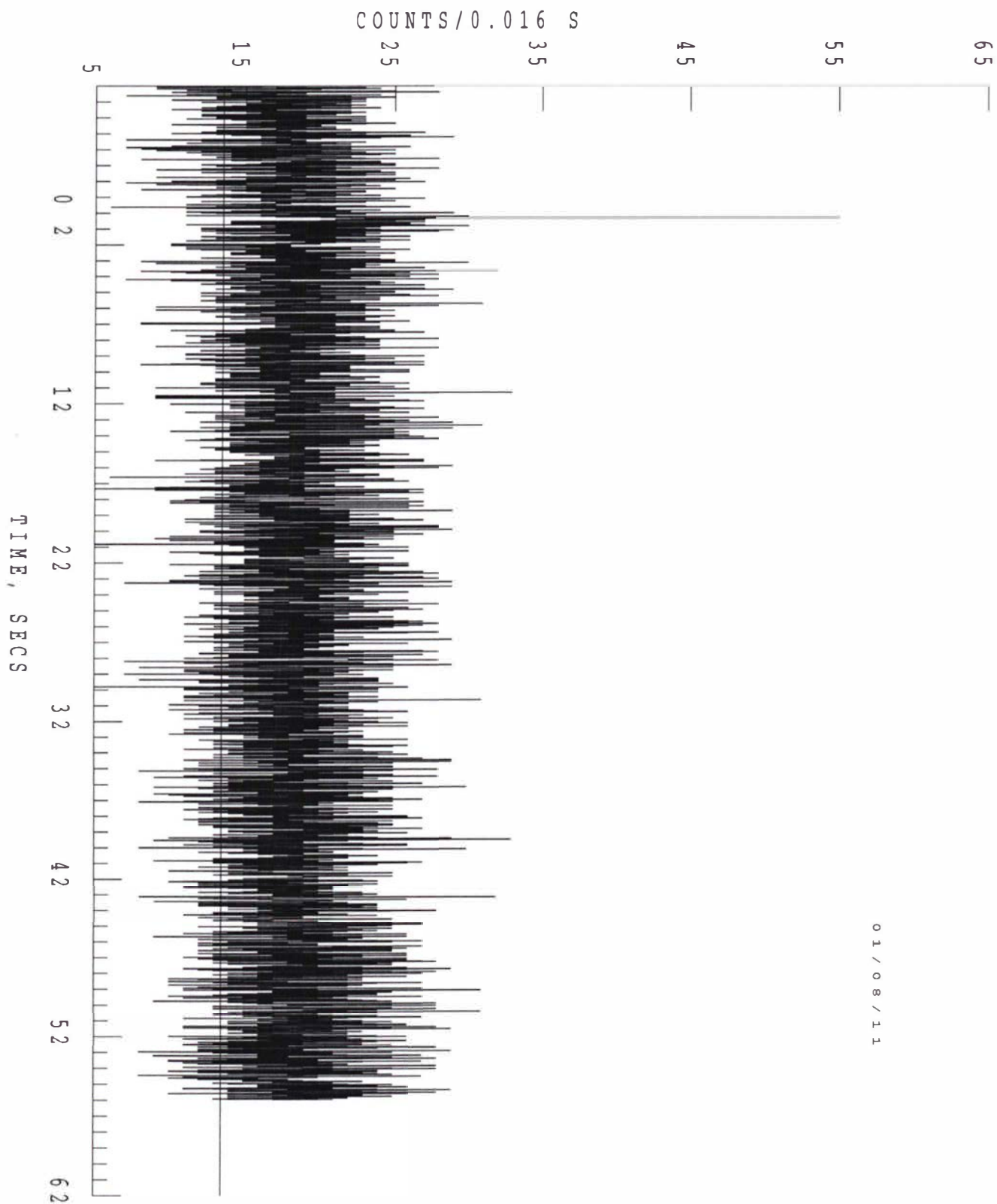
01/08/11

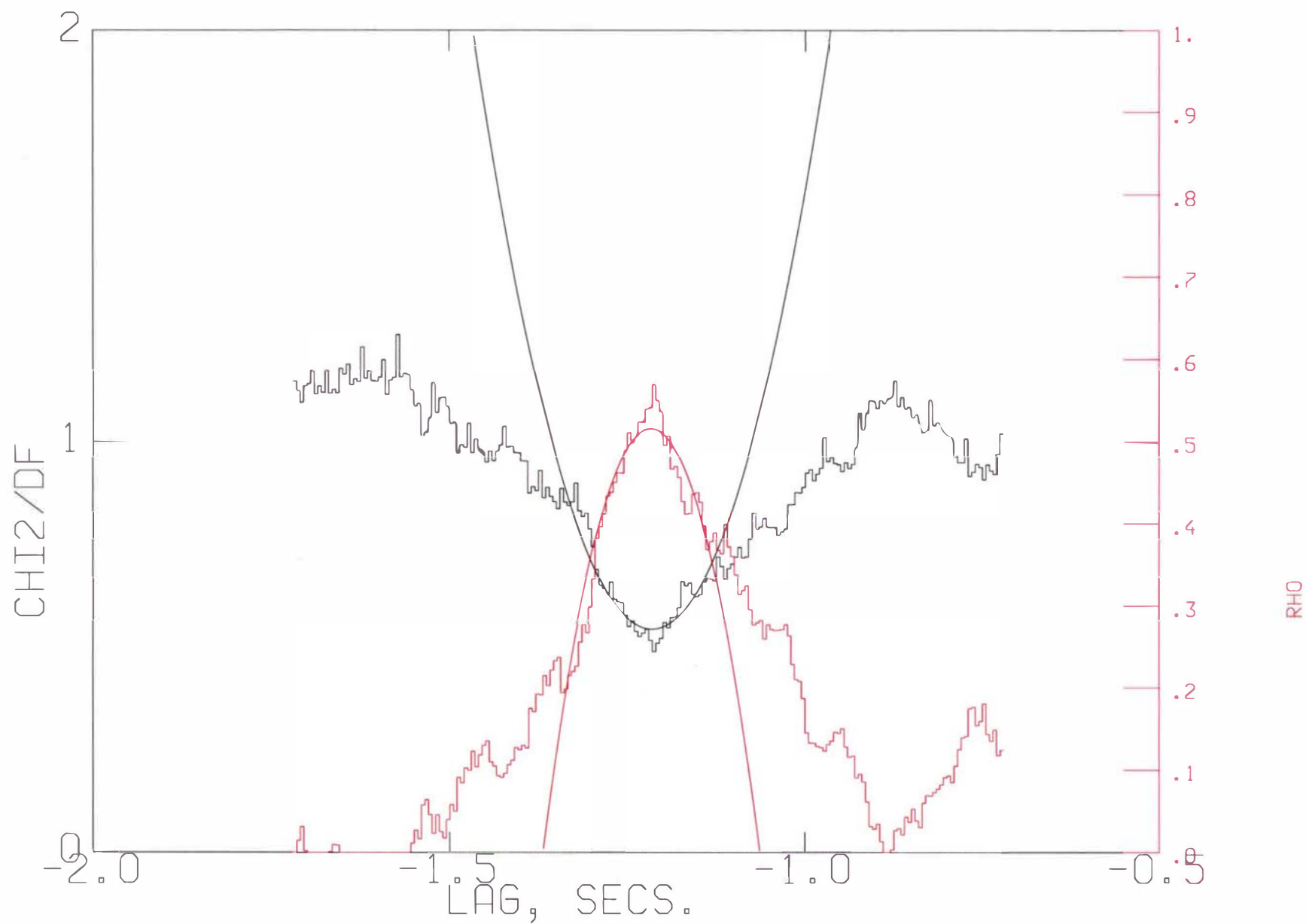
3193.706

00:53:13

A

50 - 240 keV





GLAST

01/08/11

28903.086

08:01:43

26- 293 keV

248.3 -56.9 7.3

COUNTS/0.032 S

3400

2400

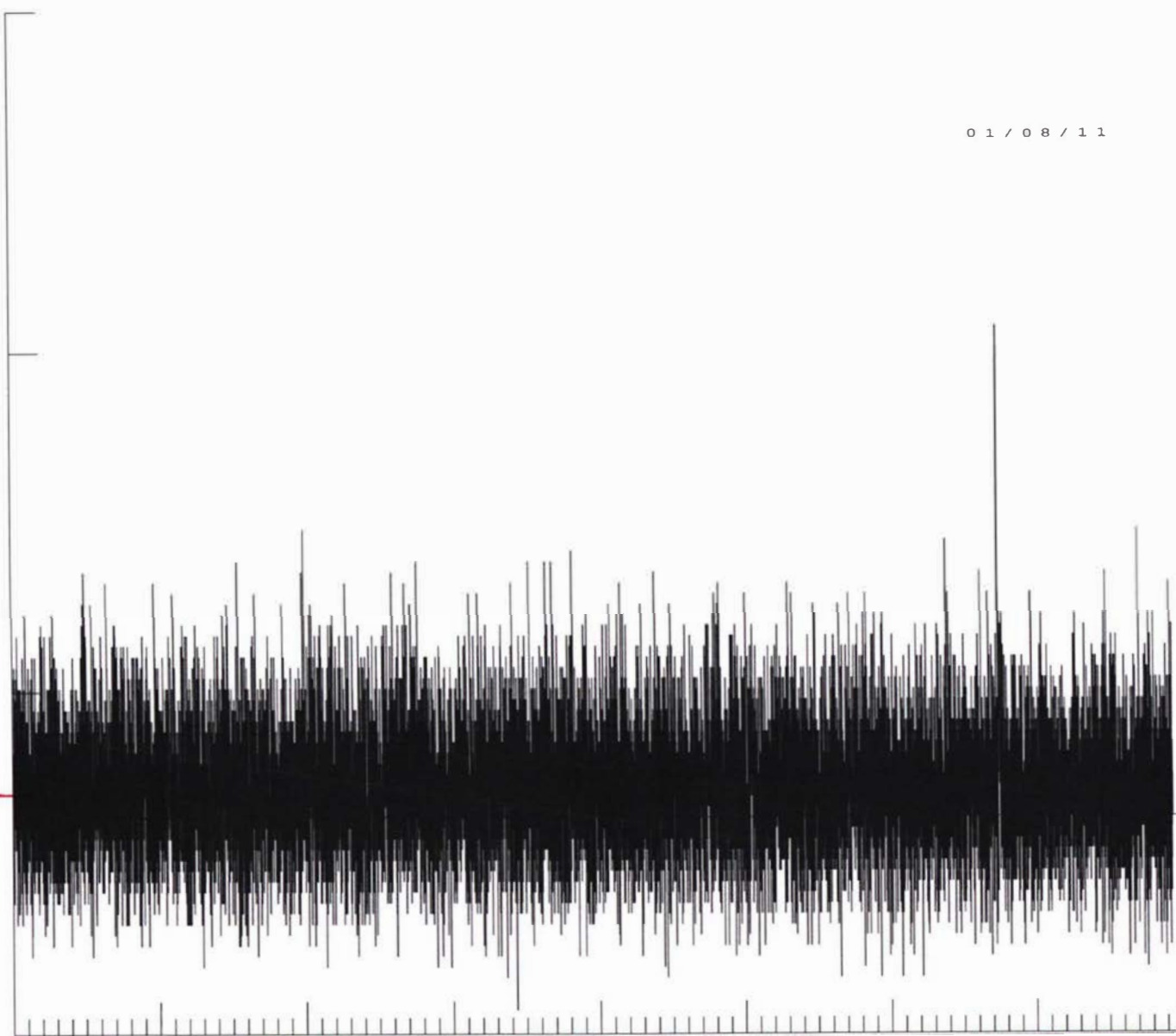
1400

400

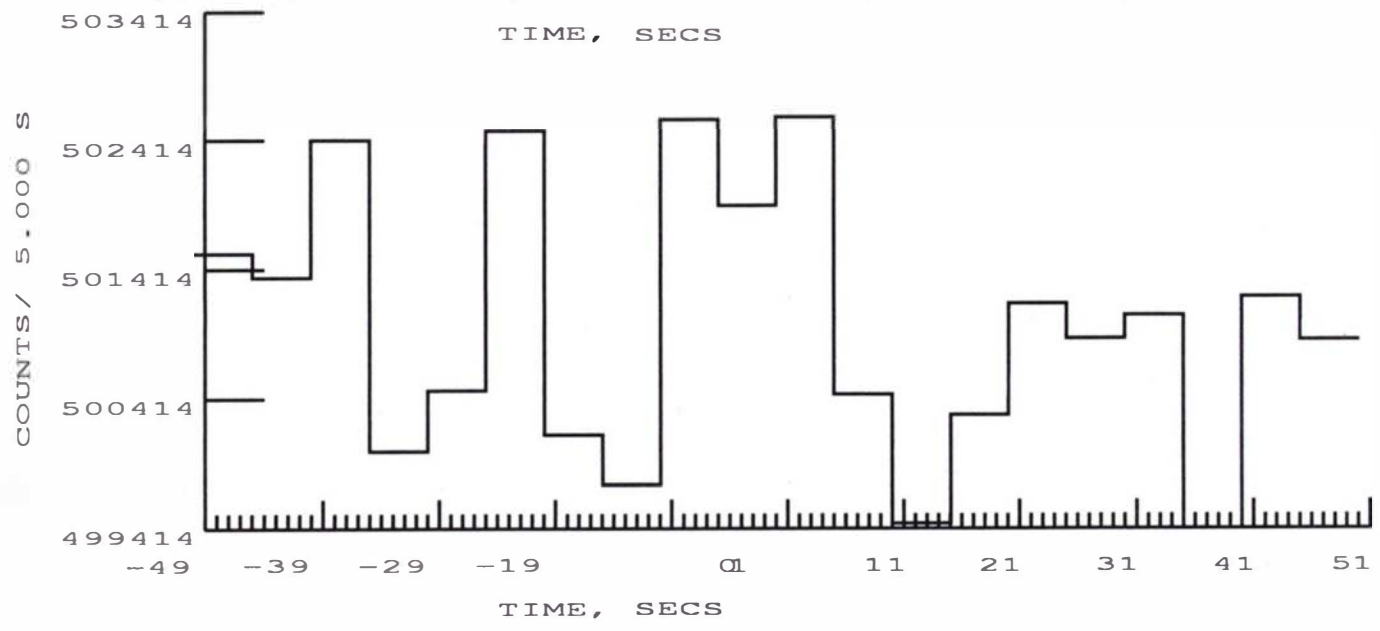
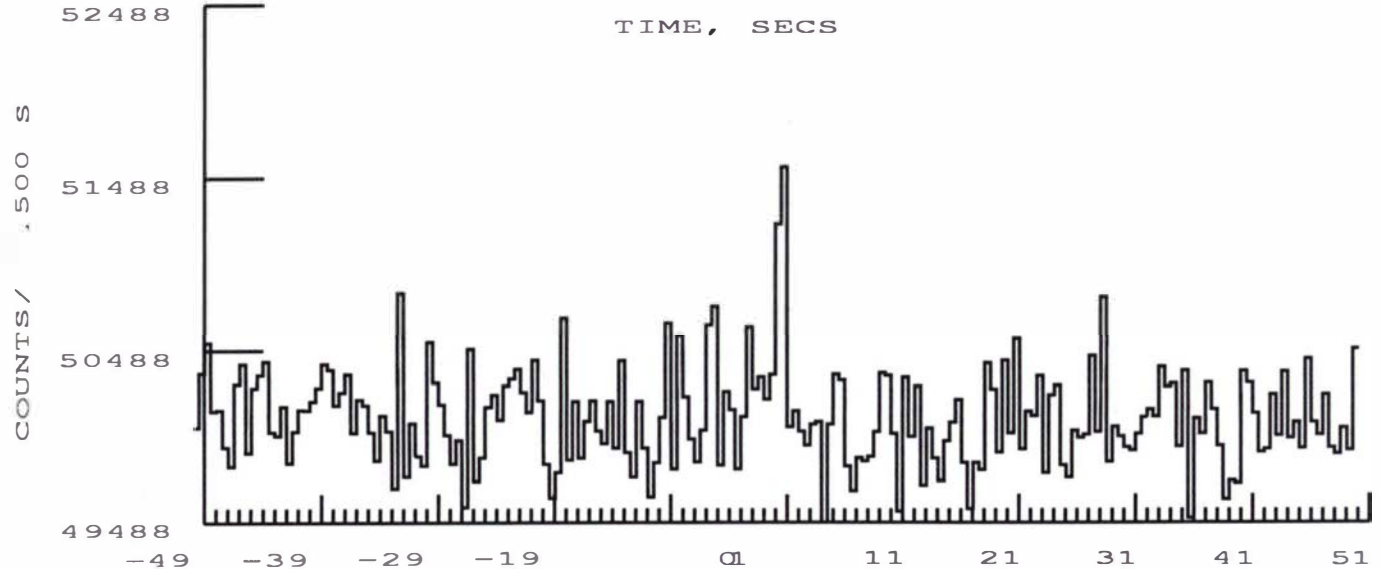
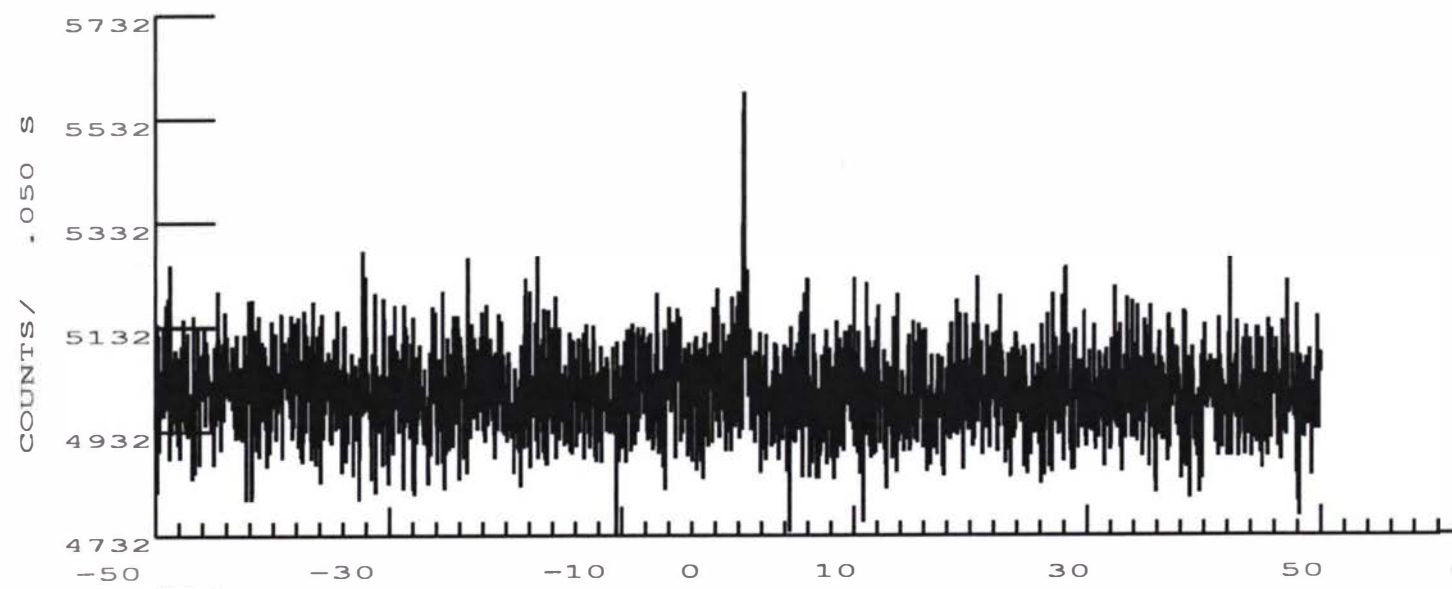
***-337 ***-287 ***-237 ***-187 ***-137 -87 -37 0 13 63

TIME, SECS

01/08/11



B



MS01

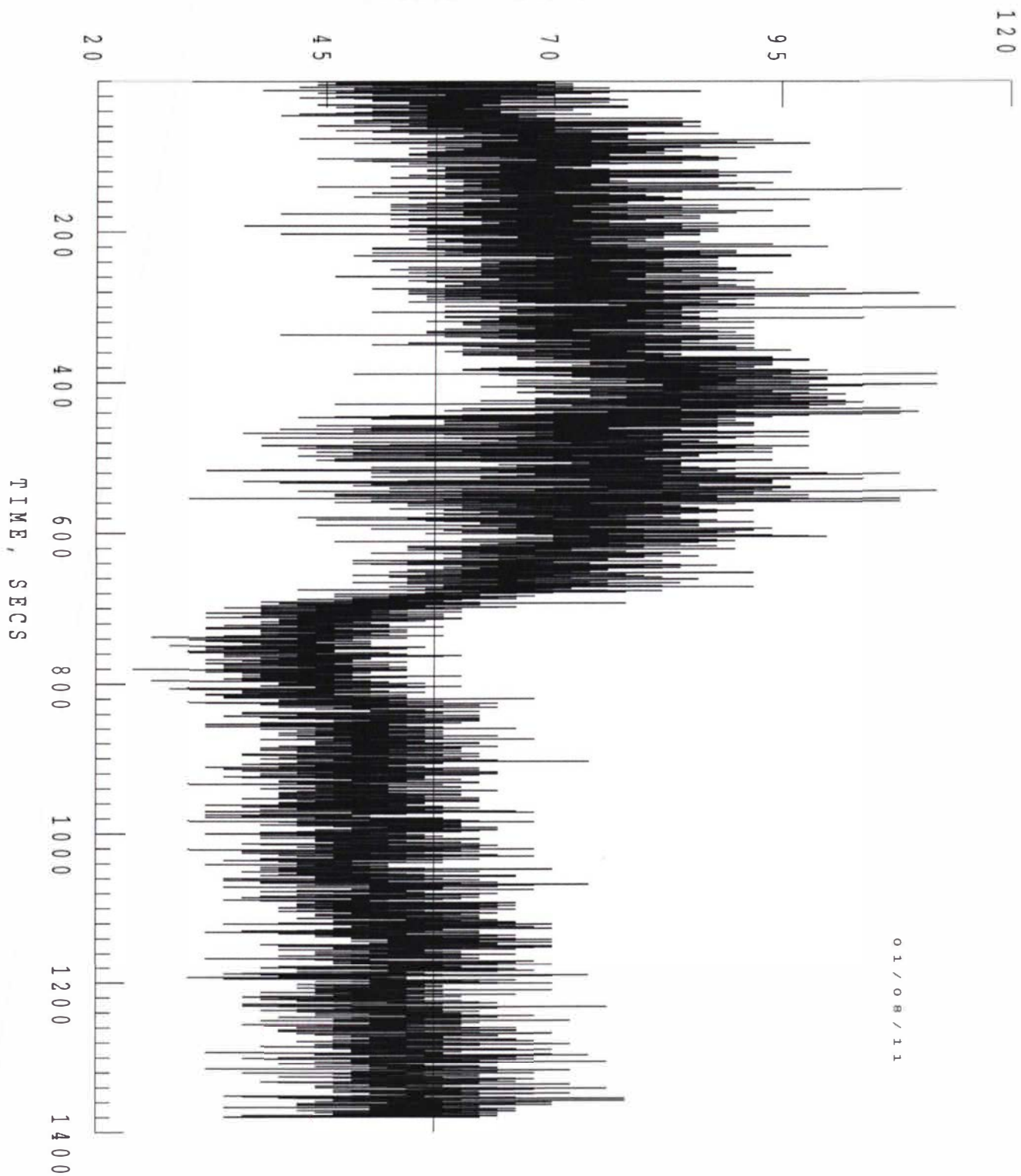
01/08/11

27573.814

B

50 - 3000 keV

COUNTS/0.250 S



01/08/11

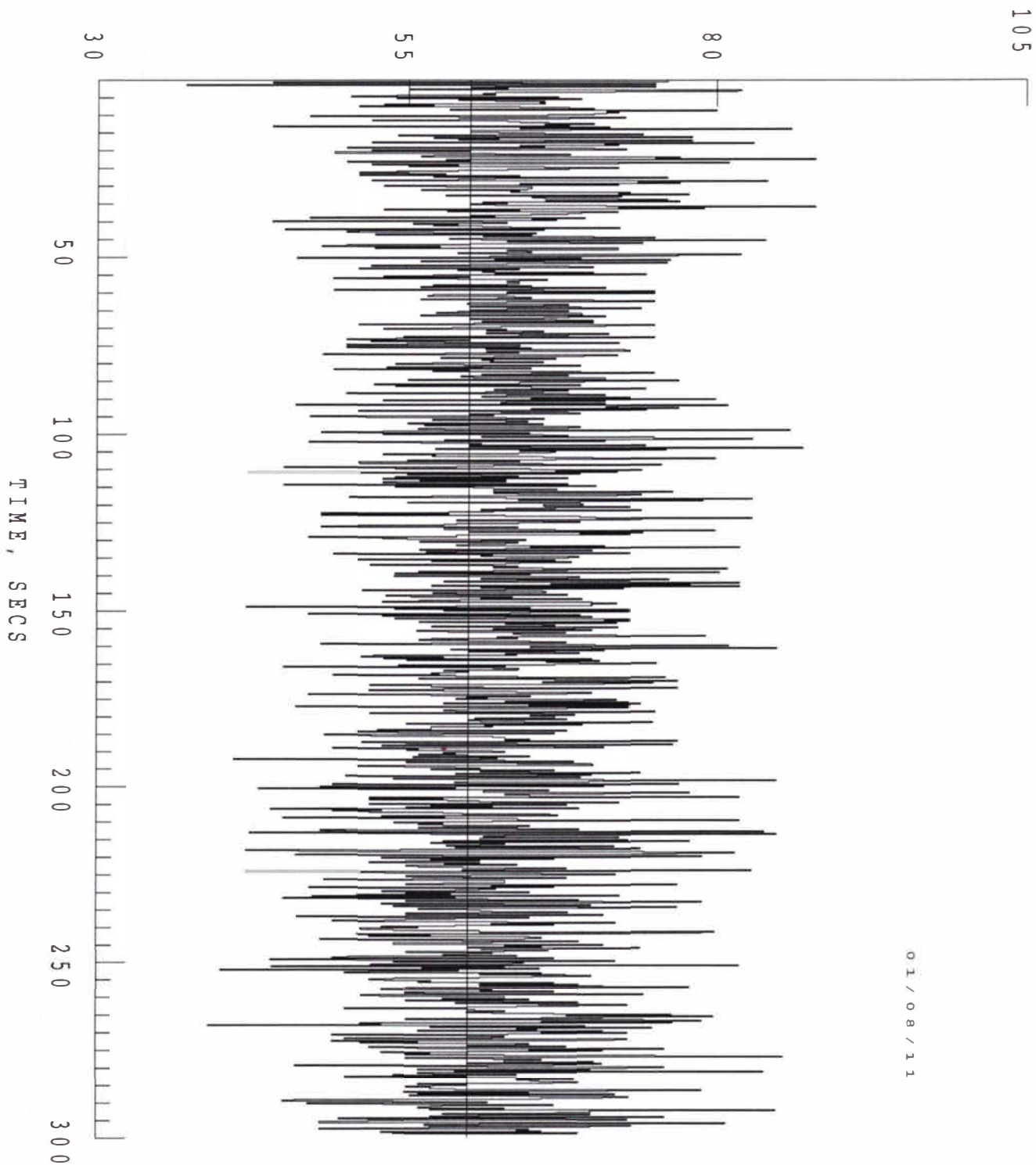
HESSI

01/08/11 28753.000 (GLAST_20110801_28903)

B

25- 150 keV

COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 110801_0801

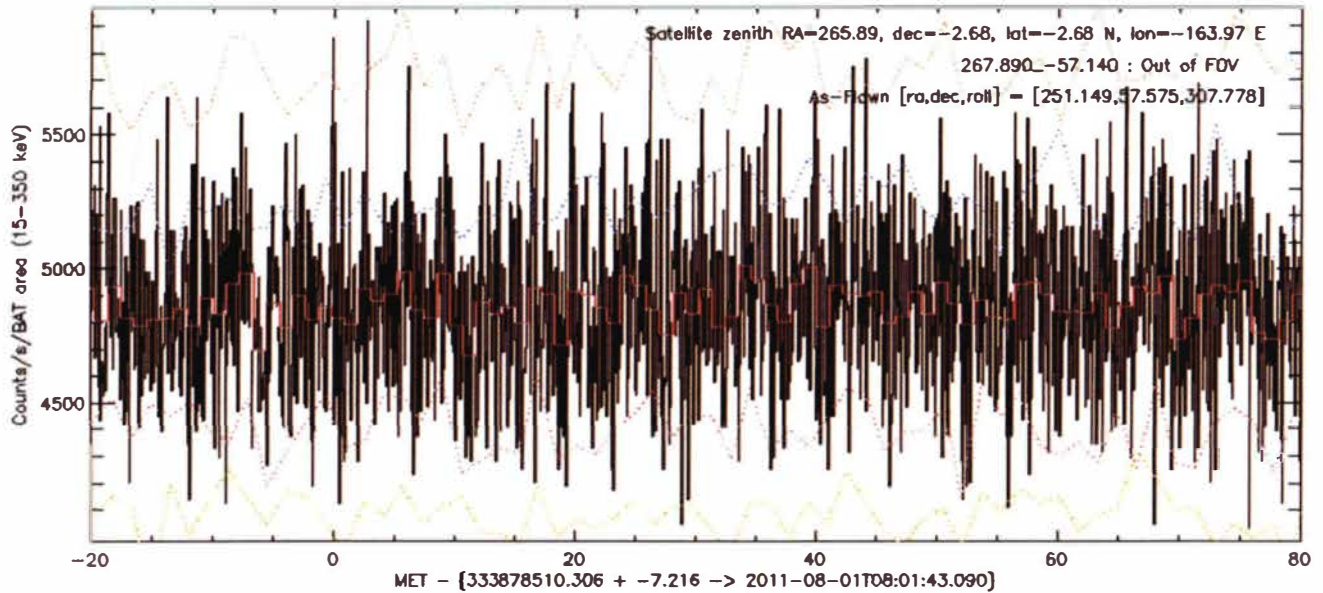
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 1 Aug 2011 06:26:38 -0600 (MDT)

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

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

/tmp/110801_0801.png



```
% /usr/local/bin/swinfo -o 333878510.306 -s 248.033 -62.333
Time(MET + UTC -> UT): 333878510.306 + -7.216 -> 2011-08-01T08:01:43.090
Swift Zenith(RA,dec): 265.89, -2.68
Swift Location(lon,lat,alt): -163.97 E, -2.68 N, 577 km
Obs Sequence Number: 00031955128
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2011-08-01 07:48:54 - 08:03:51
Obs Pointing(ra,dec,roll): 251.149, 57.575, 307.78
248.033-62.333_imageloc (boresight_dist, angle): (120, 144)
248.033-62.333_exposure (cm^2 cos adjusted): 0
248.033-62.333_altitude: 52 (up)

% /usr/local/bin/swinfo -o 333878510.306 -s 267.890 -57.140
Time(MET + UTC -> UT): 333878510.306 + -7.216 -> 2011-08-01T08:01:43.090
Swift Zenith(RA,dec): 265.89, -2.68
Swift Location(lon,lat,alt): -163.97 E, -2.68 N, 577 km
Obs Sequence Number: 00031955128
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2011-08-01 07:48:54 - 08:03:51
Obs Pointing(ra,dec,roll): 251.149, 57.575, 307.78
267.890-57.140_imageloc (boresight_dist, angle): (115, 132)
267.890-57.140_exposure (cm^2 cos adjusted): 0
267.890-57.140_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>

/tmp/110801_0801_bat64ms_ipn Content-Type: application/octet-stream

	Content-Encoding: base64
--	--------------------------

/tmp/110801_0801.png

/tmp/110801_0801.png	Content-Type: image/png
	Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

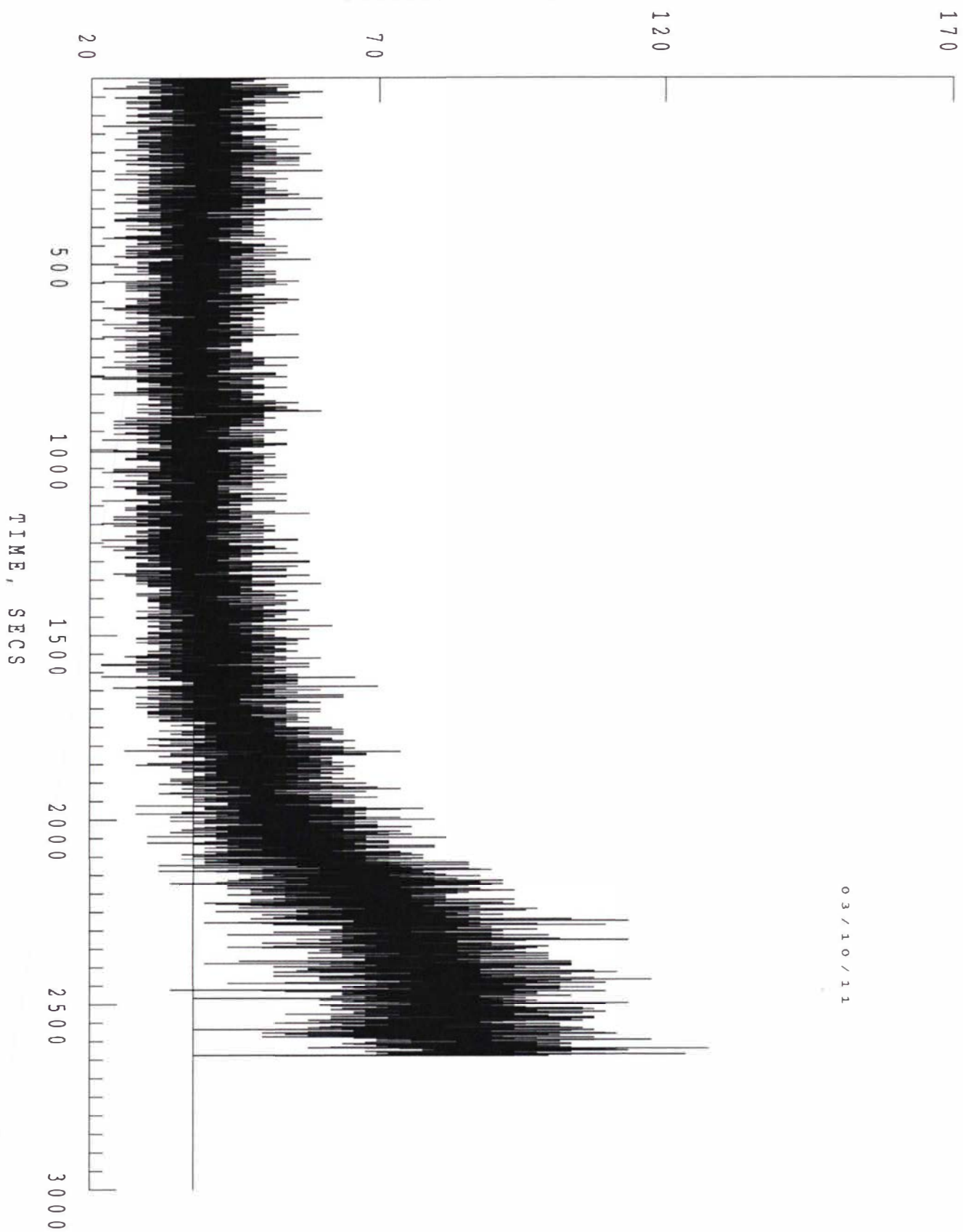
MS01

01/08/11

53793.373

50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Mon Oct 3 23:03:39 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 3 Oct 2011 23:03:08 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
Cc: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20110801_55125
X-Ucb-Scan-Signature: 64ad35ee6d65040e01945b806d0b85bfeb8b2313
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 3-Oct-2011 23:05:02.00
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

C

From vxw@capella2.gsfc.nasa.gov Mon Aug 1 12:53:37 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Mon, 1 Aug 2011 15:54:02 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
o: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 063803d03c0f6f88c3dbc563f3893d96acb332d7
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.806'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE

NOTICE_DATE: Mon 01 Aug 11 19:53:37 UT

NOTICE_TYPE: Swift-BAT GRB Lightcurve

TRIGGER_NUM: 458521, Seg_Num: 0

GRB_RA: 89.285d {+05h 57m 08s} (J2000),
89.840d {+05h 59m 22s} (current),
86.891d {+05h 47m 34s} (1950)

GRB_DEC: +80.988d {+80d 59' 18"} (J2000),
+80.989d {+80d 59' 20"} (current),
+80.979d {+80d 58' 45"} (1950)

GRB_DATE: 15774 TJD; 213 DOY; 11/08/01

GRB_TIME: 71382.99 SOD {19:49:42.99} UT

TRIGGER_INDEX: 298

GRB_PHI: -132.13 [deg]

GRB_THETA: 25.30 [deg]

DELTA_TIME: 19.00 [sec]

TRIGGER_DUR: 4.096 [sec]

SOLN_STATUS: 0x3

RATE_SIGNIF: 8.83 [sigma]

IMAGE_SIGNIF: 7.83 [sigma]

URL: sw00458521000msb.lc

SUN_POSTN: 131.66d {+08h 46m 38s} +17.95d {+17d 56' 50"}
SUN_DIST: 65.46 [deg] Sun_angle= 2.8 [hr] (West of Sun)

MOON_POSTN: 156.71d {+10h 26m 51s} +4.48d {+04d 28' 39"}
MOON_DIST: 82.04 [deg]

MOON_ILLUM: 6 [%]

GAL_COORDS: 132.58, 24.69 [deg] galactic lon,lat of the burst (or transient)

ECL_COORDS: 89.79, 57.55 [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 = 147.48,16.92 [deg]

385 s
 $4.7 \times 10^{-6} \text{ erg cm}^{-2}$
1.1 phot/cm²s

GLAST

02/08/11

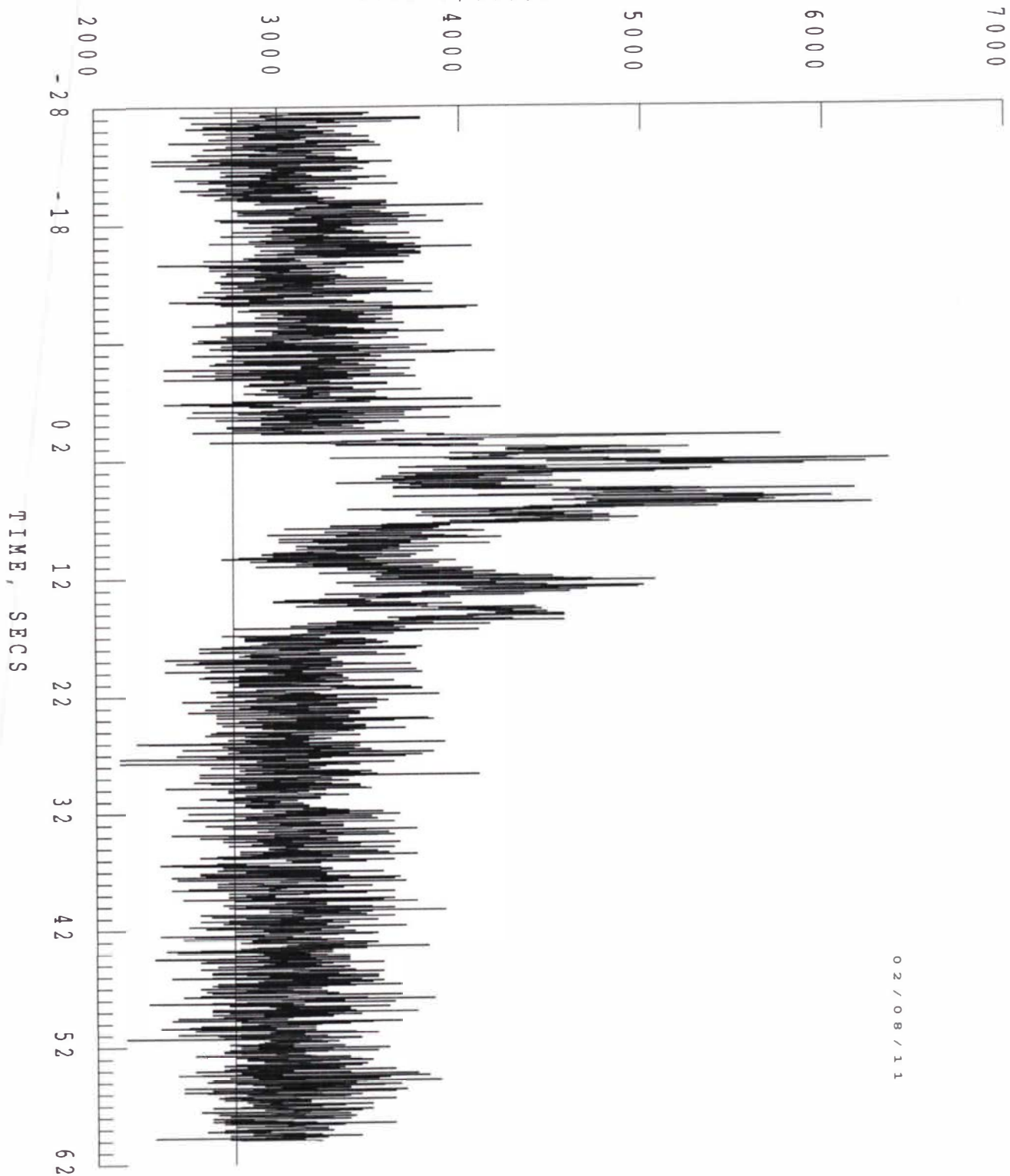
14391.765

A

26- 293 keV

Solar

COUNTS/0.032 S



02/08/11

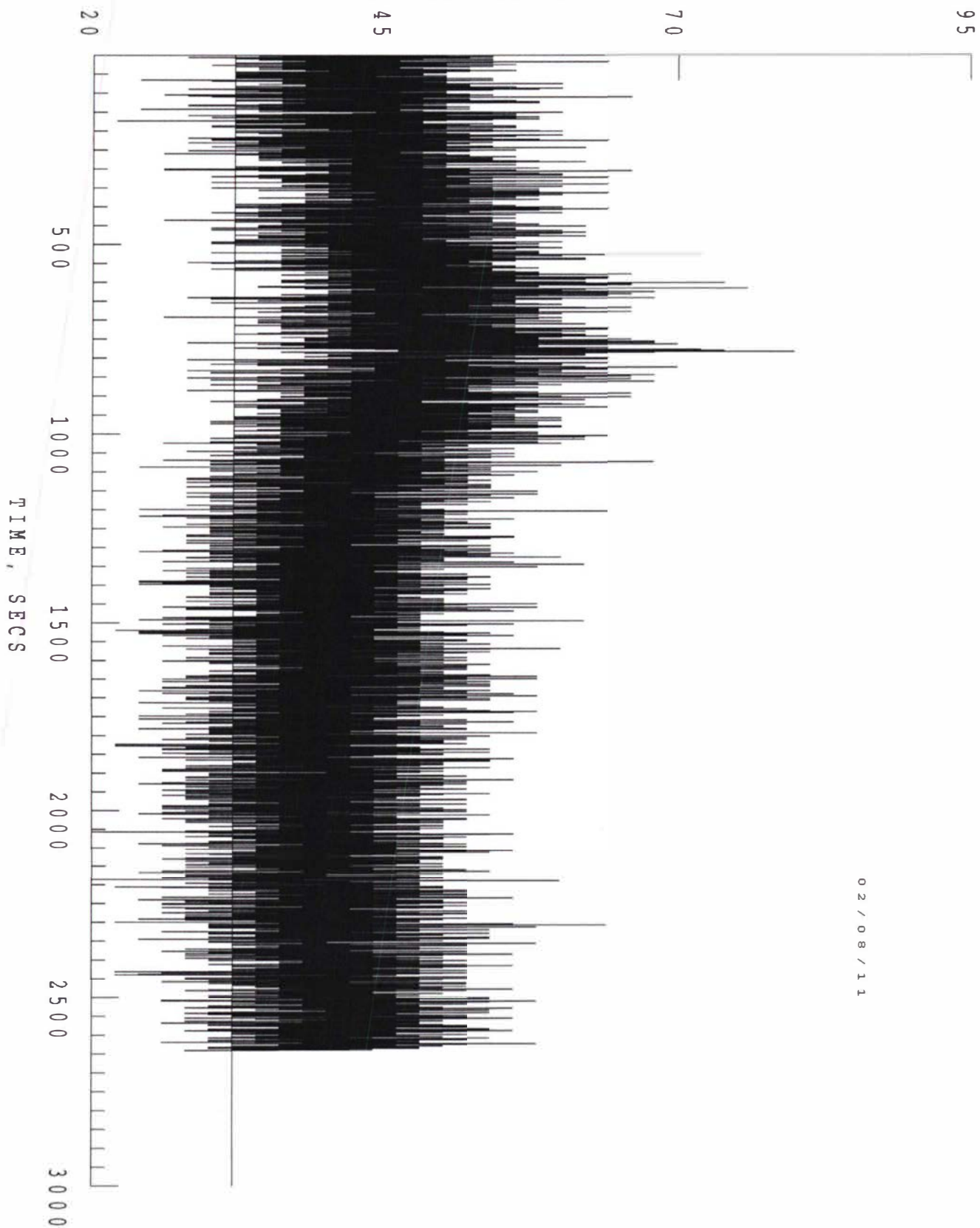
MS01

02/08/11

13052.610

50 - 3000 keV

COUNTS/0.250 S



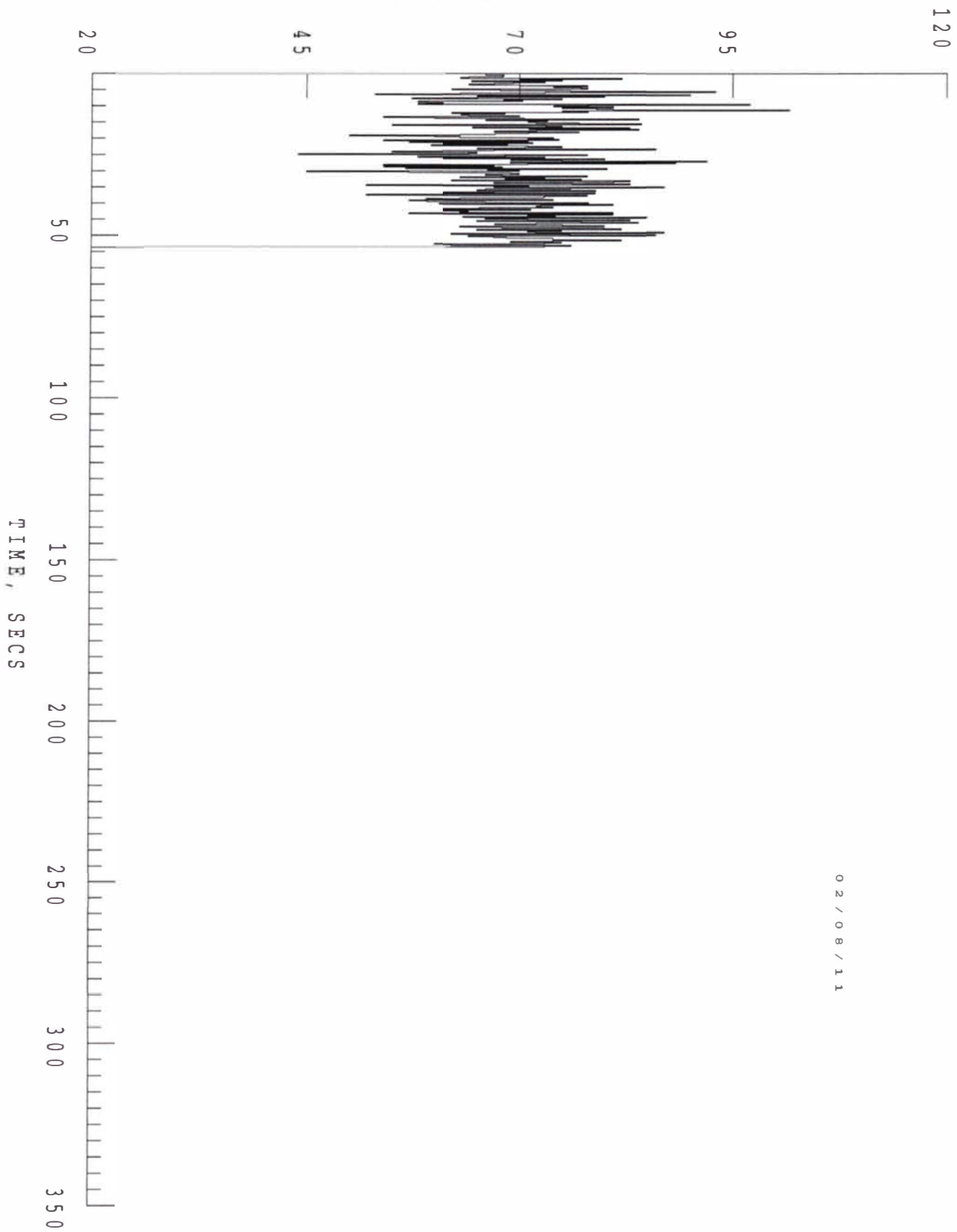
HESSI

02/08/11 14241.000 (GLAST_20110802_14391)

25 - 150 keV

A

COUNTS/0.250 S

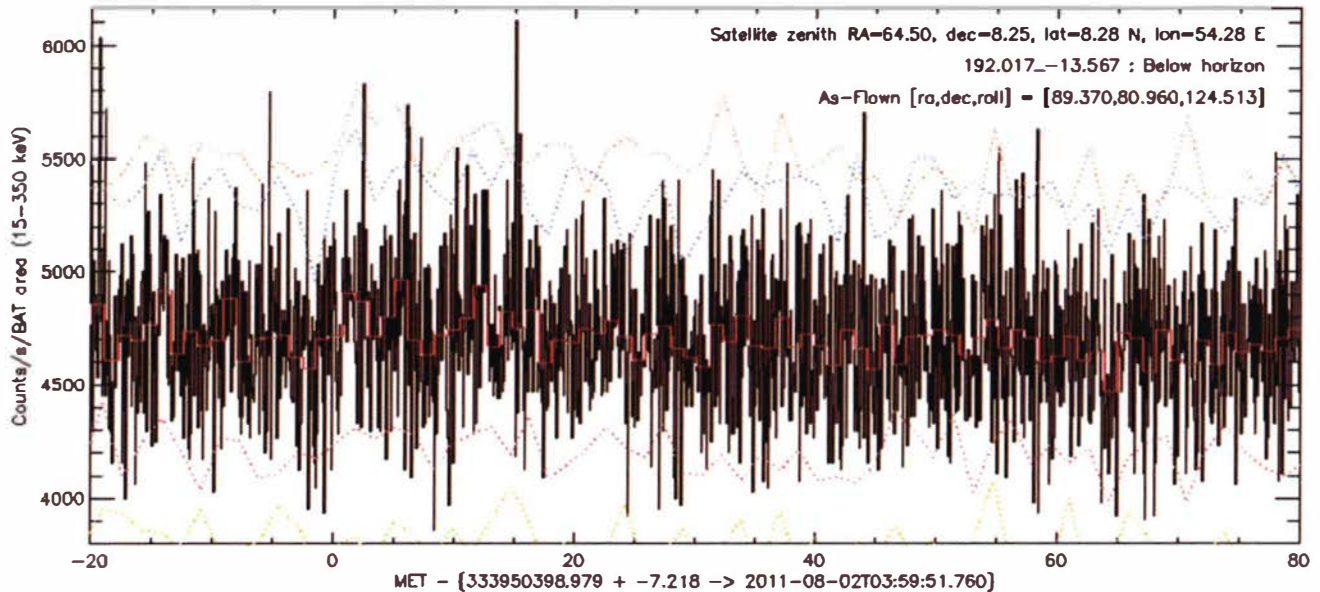


02/08/11

Subject: [Ipn] BAT lightcurve for trigger at 110802_0359
From: palmer+automatic_lightcurve@lanl.gov
Date: Tue, 2 Aug 2011 08:05:43 -0600 (MDT)
To: gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/110802_0359.png



```
% /usr/local/bin/swinfo -o 333950398.978 -s 123.467_19.167
Time(MET + UTC -> UT):      333950398.979 + -7.218 -> 2011-08-02T03:59:51.760
Swift Zenith(RA,dec):       64.50, 8.25
Swift Location(lon,lat,alt): 54.28 E, 8.28 N, 594 km
Obs Sequence Number:        00458521001
Obs Target Name:            N/A
Obs Date and Times:         2011-08-02 03:56:54 - 04:09:38
Obs Pointing(ra,dec,roll):  89.370, 80.960, 124.51
123.467_19.167_imageloc (boresight_dist, angle): (63, -71)
123.467_19.167_exposure (cm^2 cos adjusted): 0
123.467_19.167_altitude: 56 (up)

% /usr/local/bin/swinfo -o 333950398.978 -s 192.017_-13.567
Time(MET + UTC -> UT):      333950398.979 + -7.218 -> 2011-08-02T03:59:51.760
Swift Zenith(RA,dec):       64.50, 8.25
Swift Location(lon,lat,alt): 54.28 E, 8.28 N, 594 km
Obs Sequence Number:        00458521001
Obs Target Name:            N/A
Obs Date and Times:         2011-08-02 03:56:54 - 04:09:38
Obs Pointing(ra,dec,roll):  89.370, 80.960, 124.51
192.017_-13.567_imageloc (boresight_dist, angle): (105, -135)
192.017_-13.567_exposure (cm^2 cos adjusted): 0
192.017_-13.567_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>

/tmp/110802_0359_bat64ms_ipn Content-Type: application/octet-stream

Content-Encoding: base64

/tmp/110802_0359.png

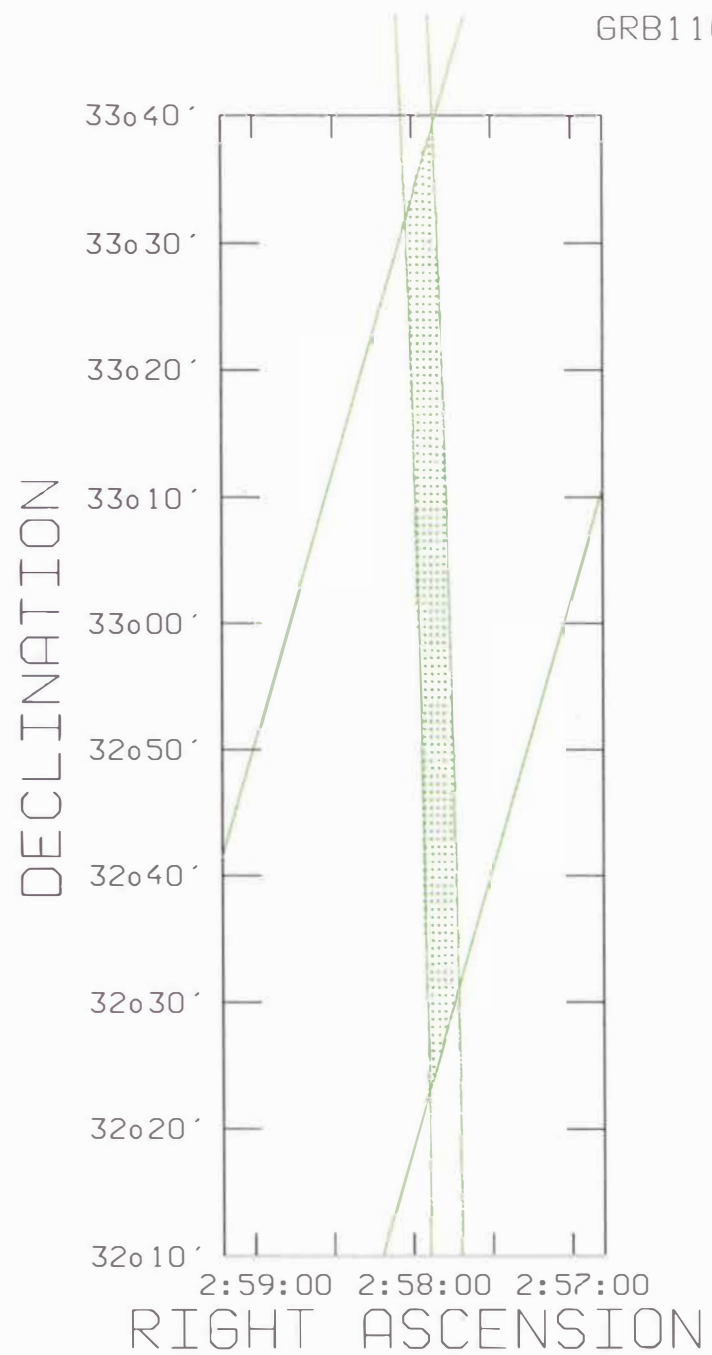
/tmp/110802_0359.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

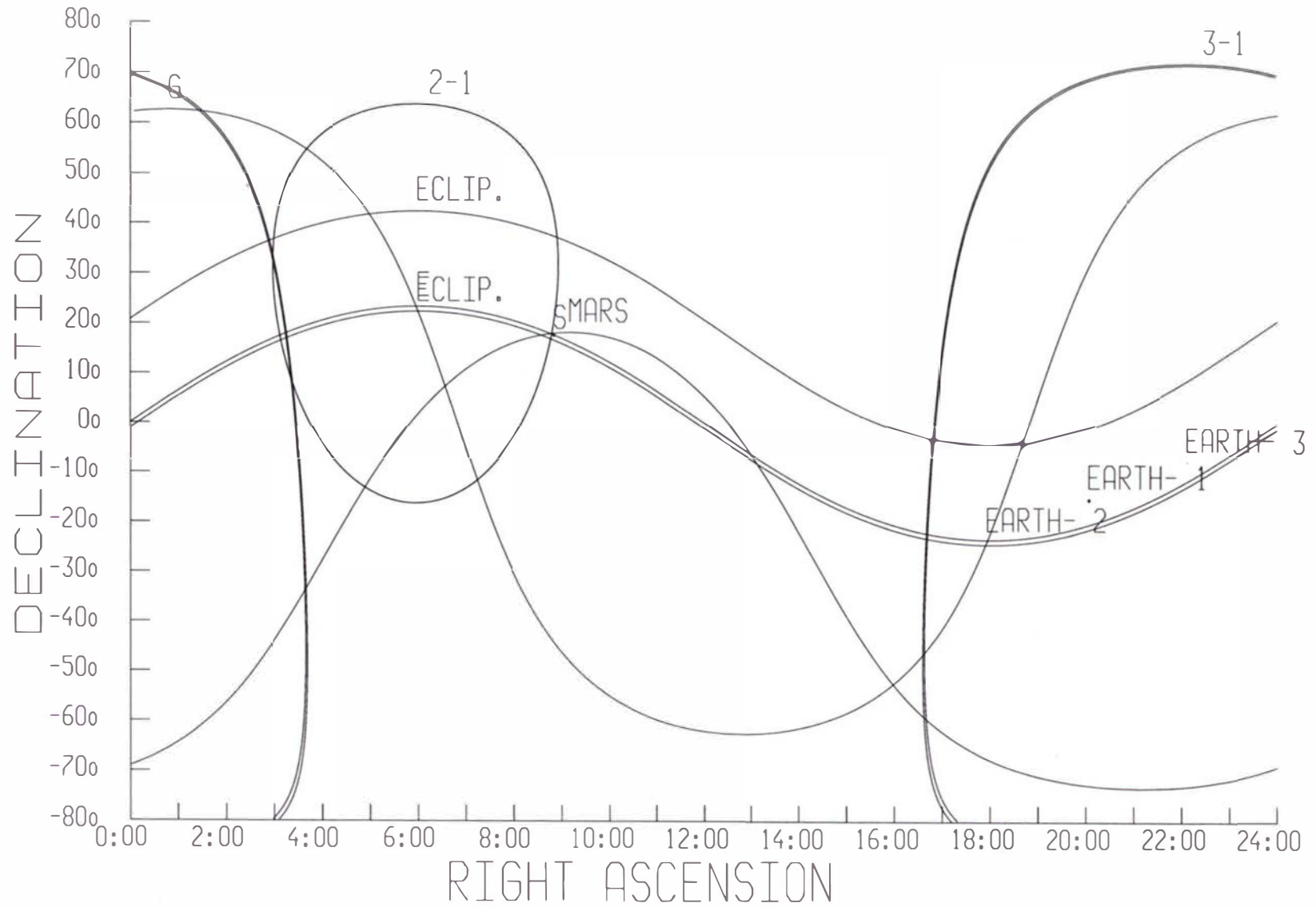
Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--



EVENT OF AUG 2, 2011 15:19

15/03/2013

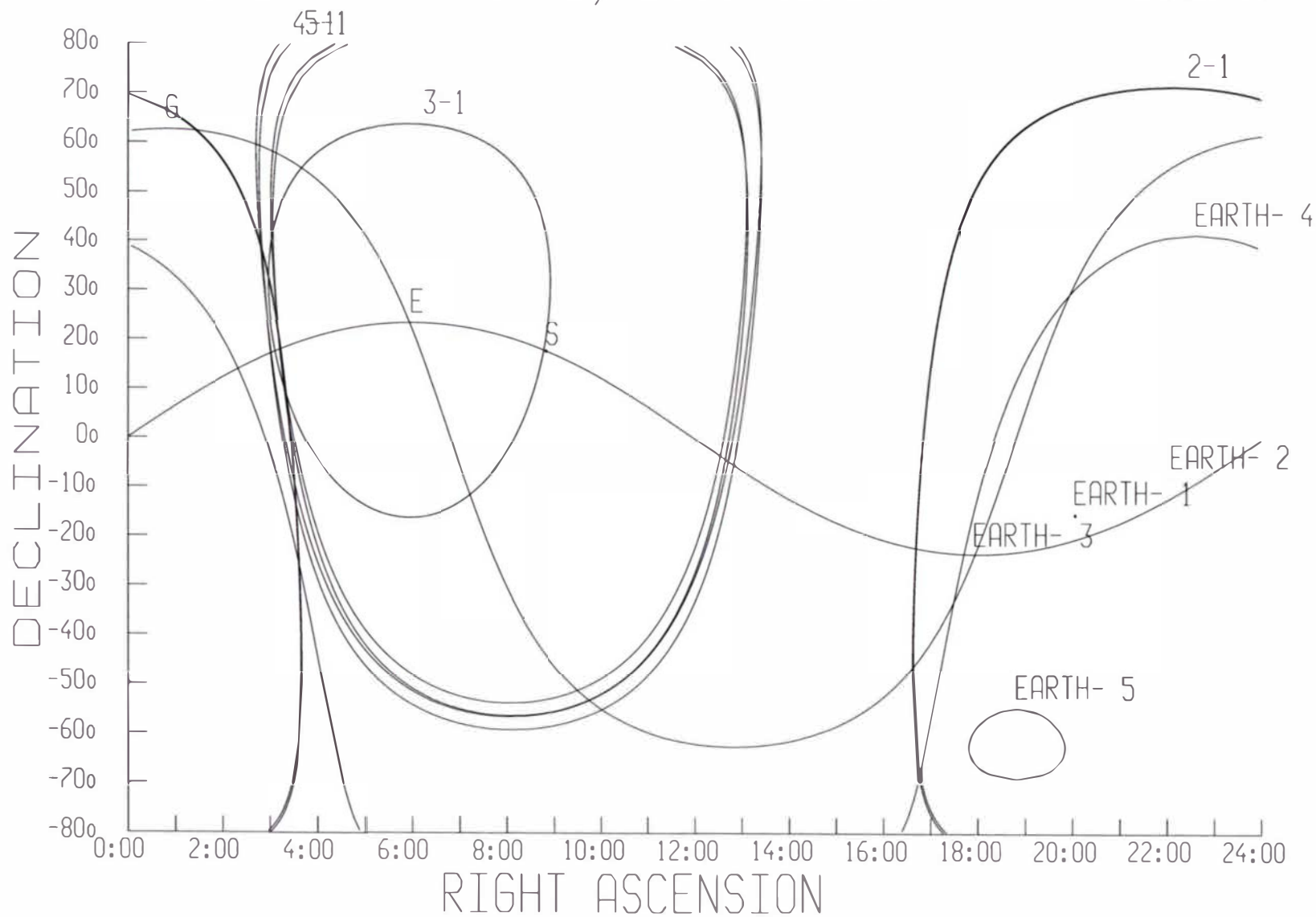
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS2 2 MO 3 MESSENGER

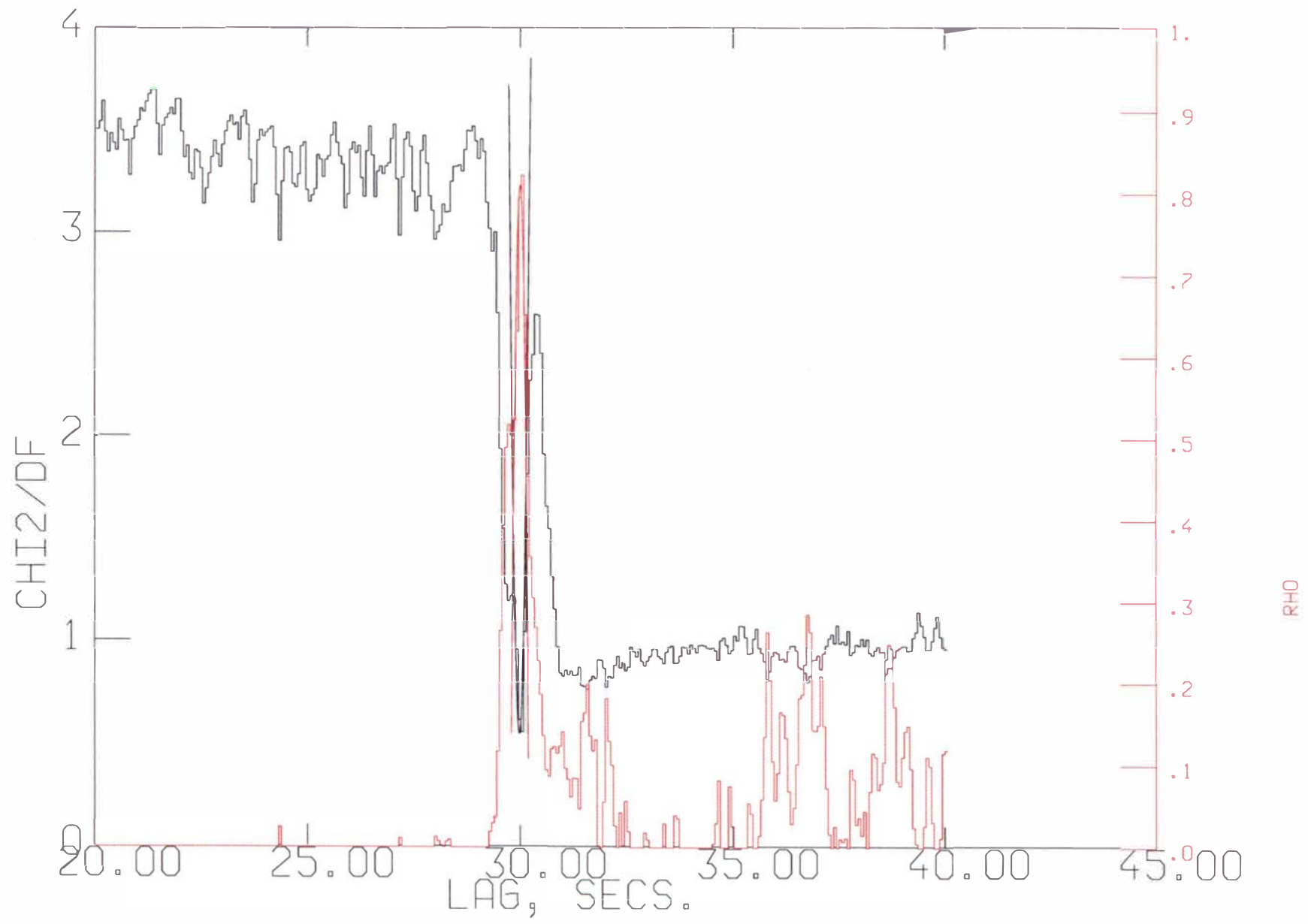


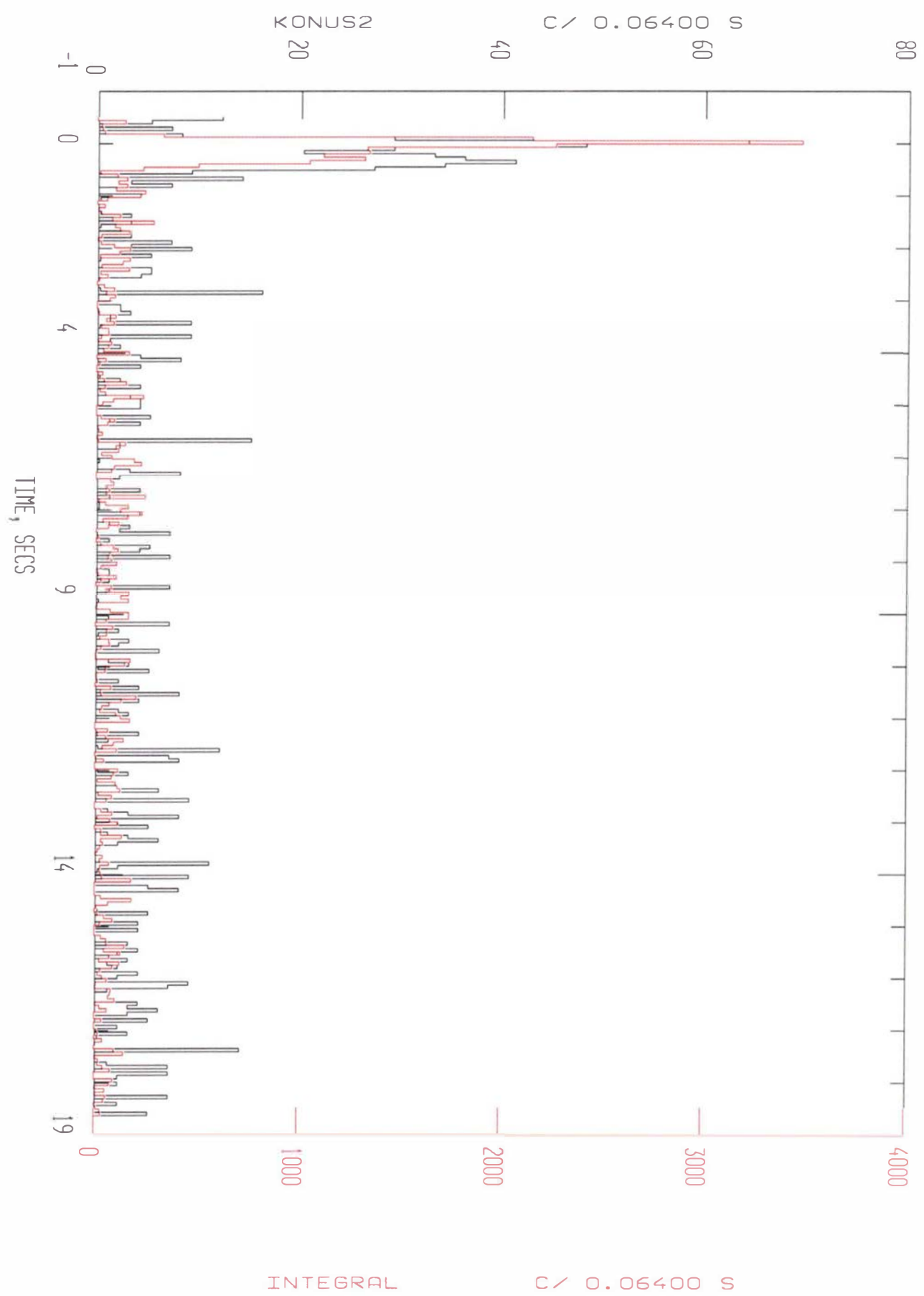
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS2 2 MESSENGER 3 MO 4 SUZAKU 5 INTEGRAL

EVENT OF AUG 2, 2011 15:19

05/08/2011



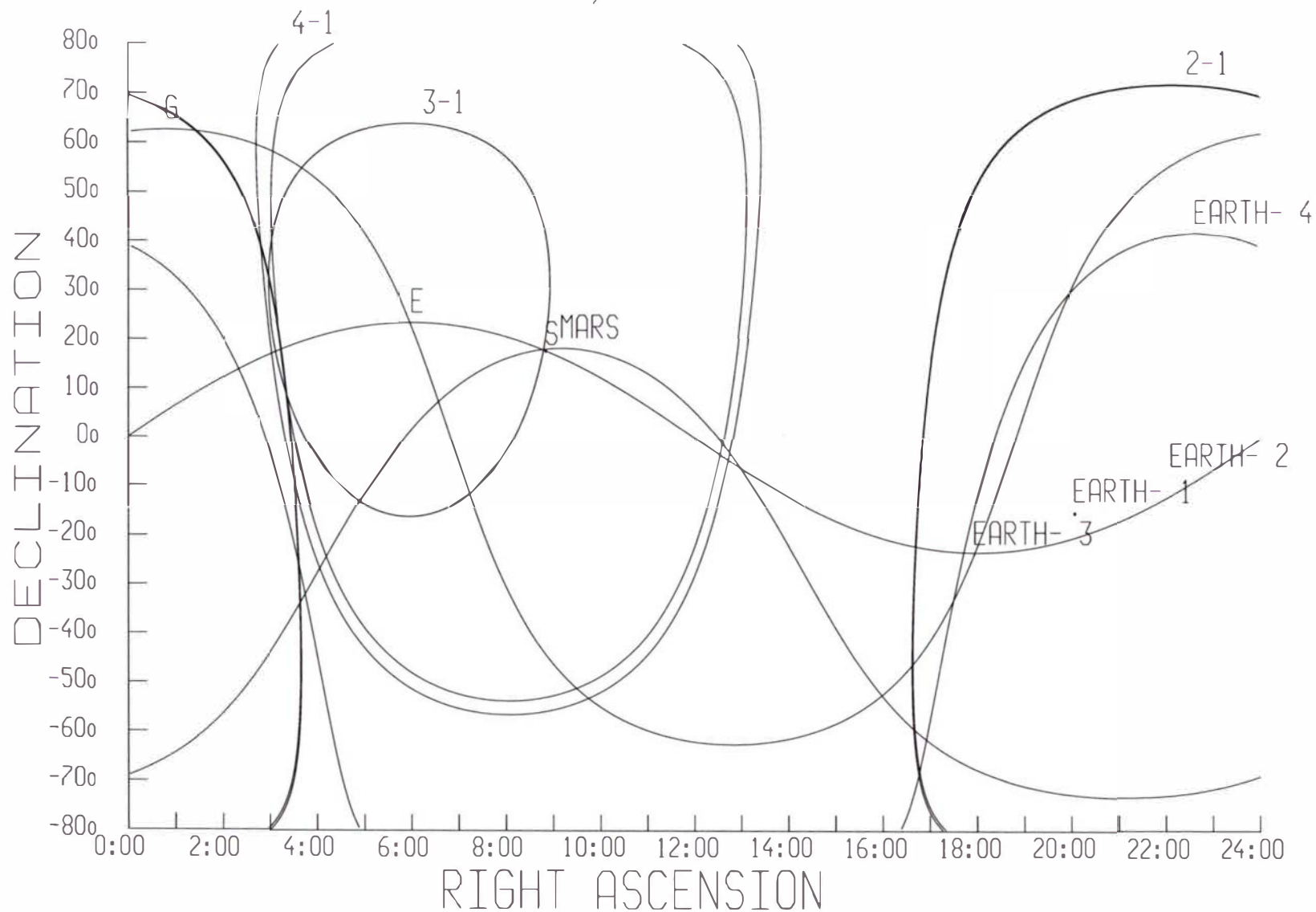


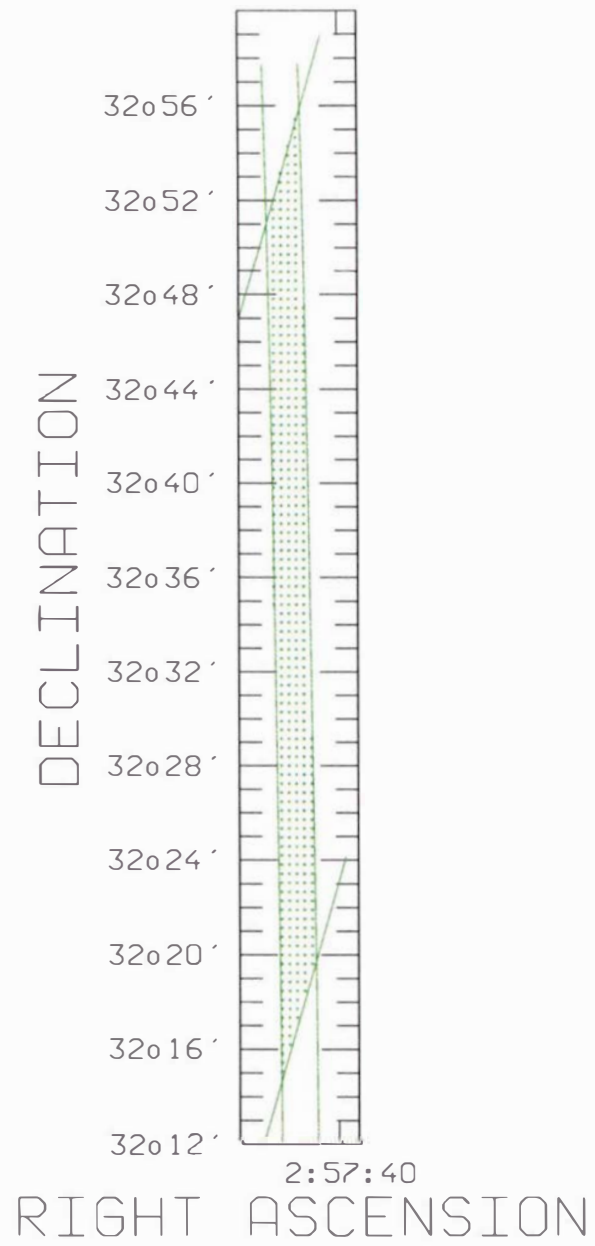


EVENT OF AUG 2, 2011 15:19

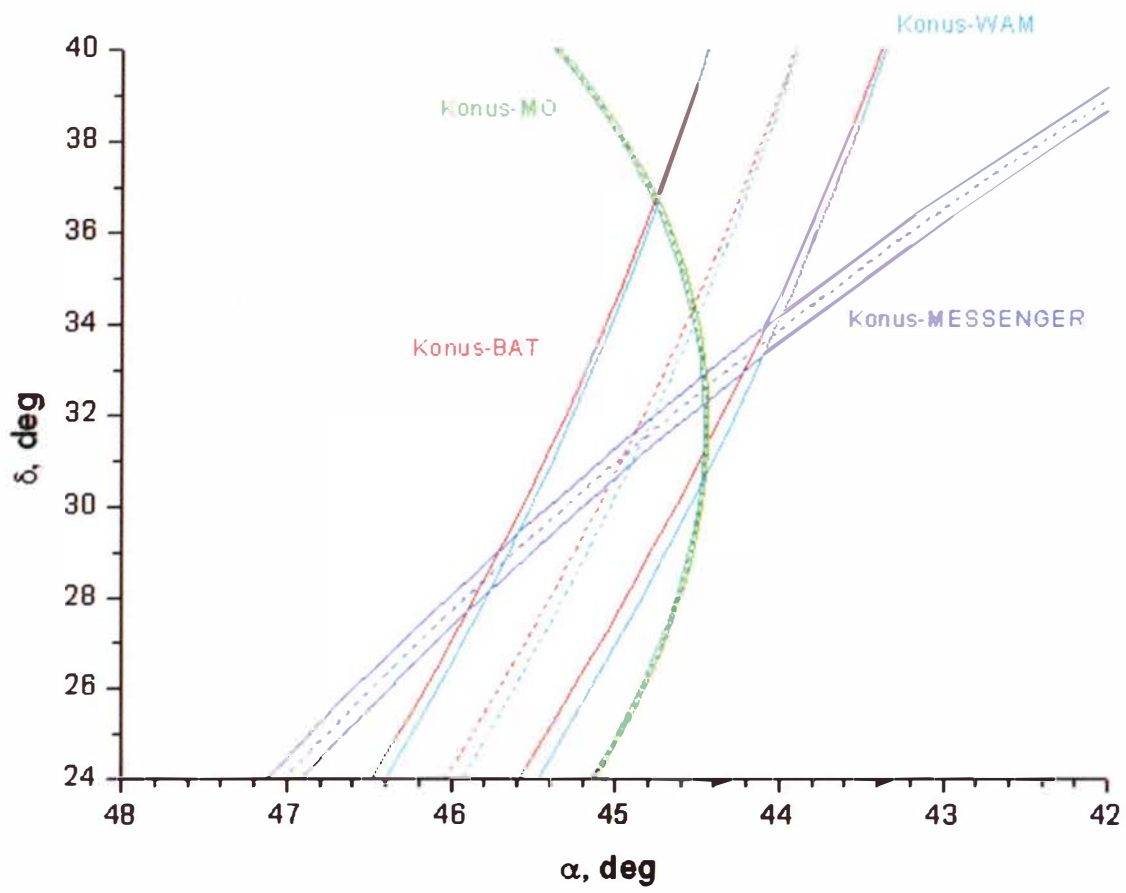
03/08/2011

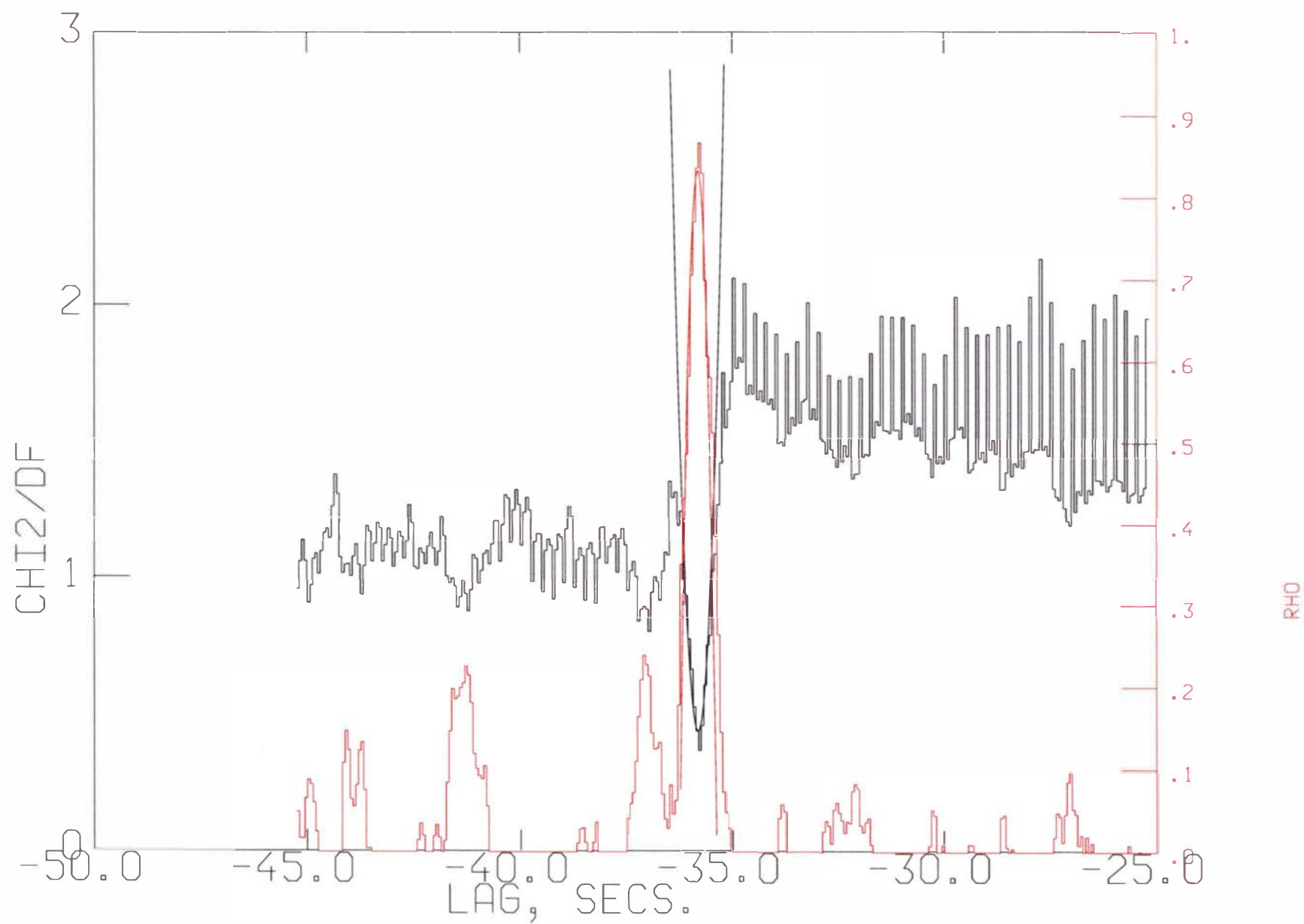
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS2 2 MESSENGER 3 MO 4 SUZAKU

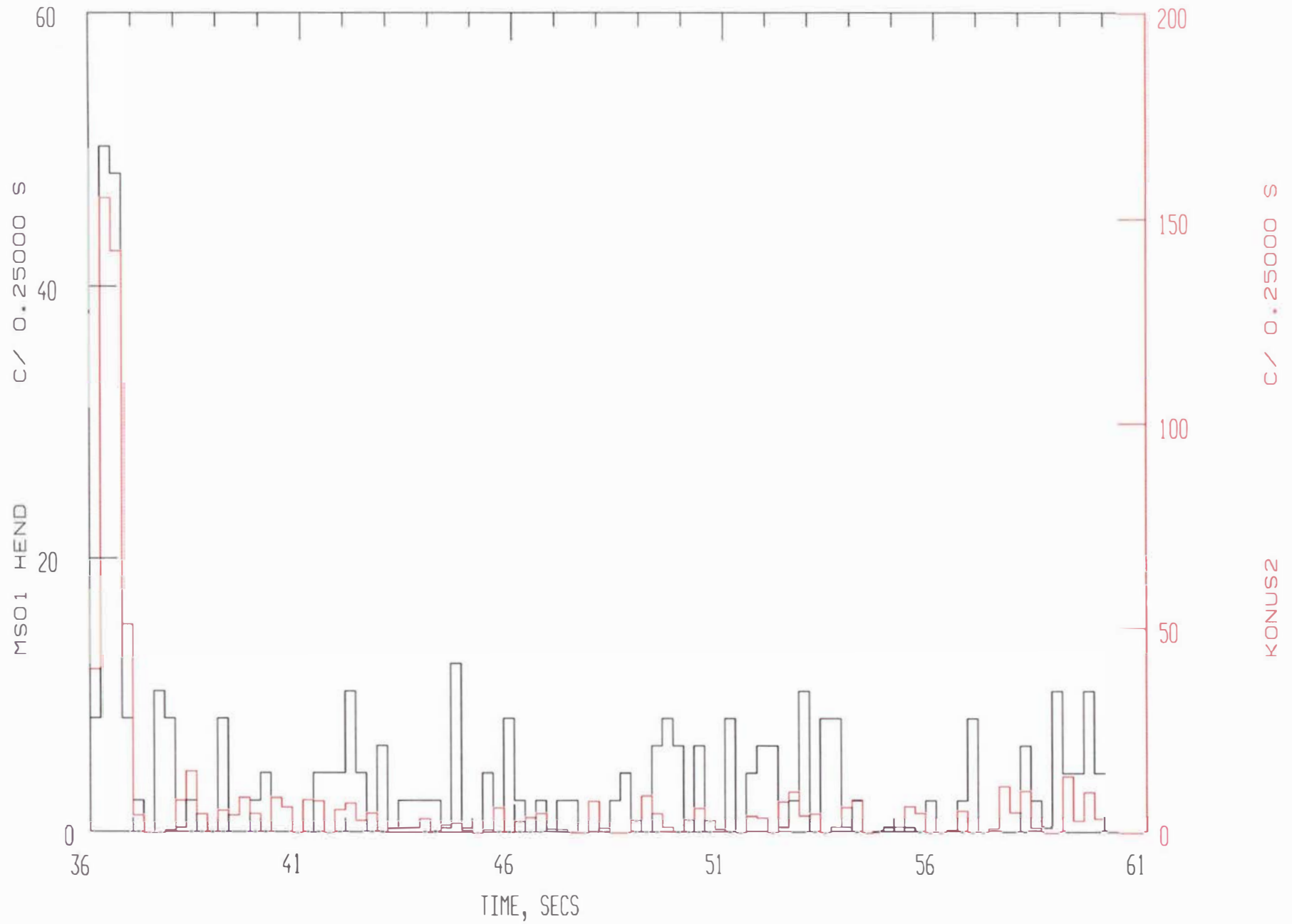


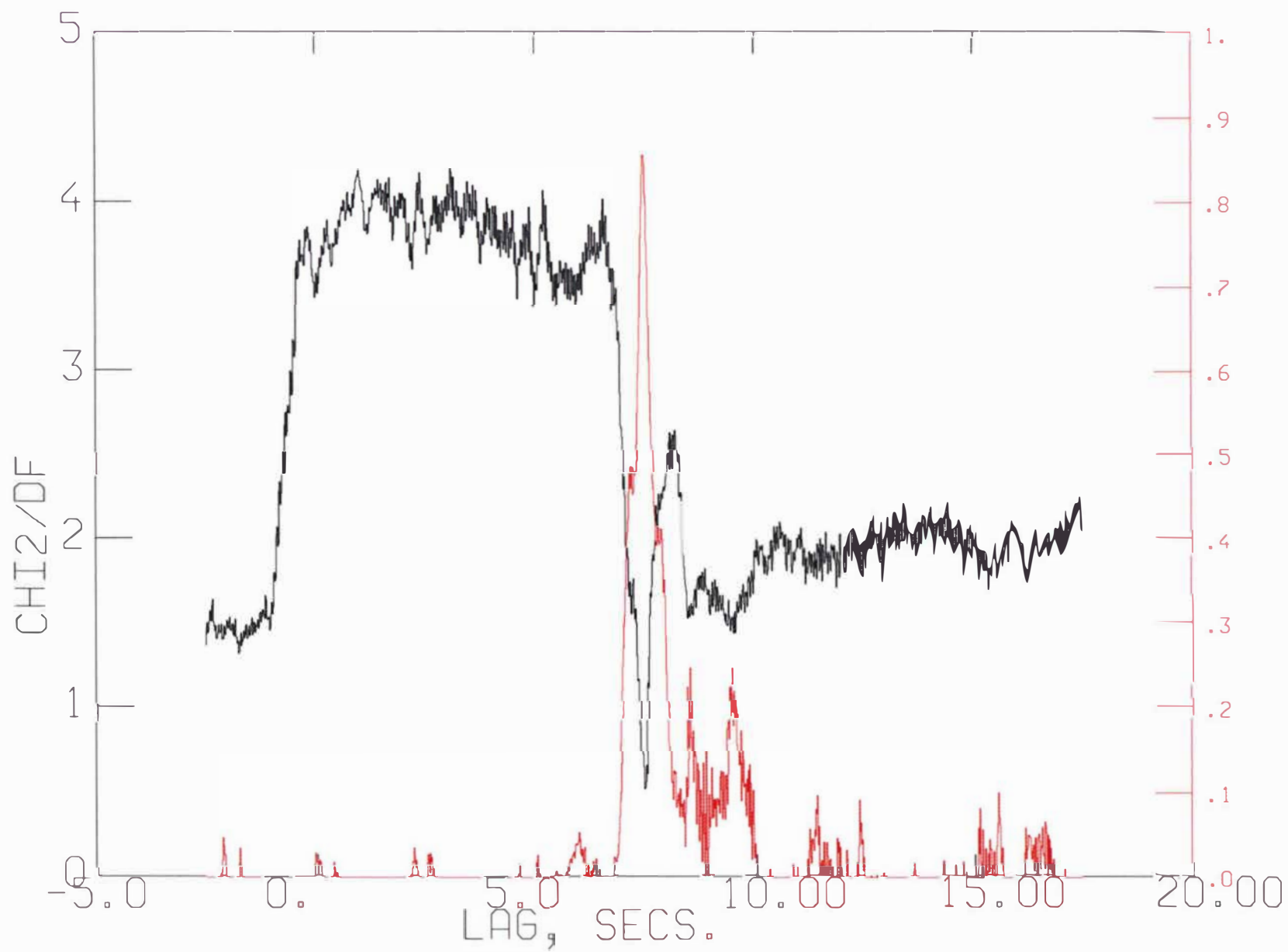


GRB 110802(A)

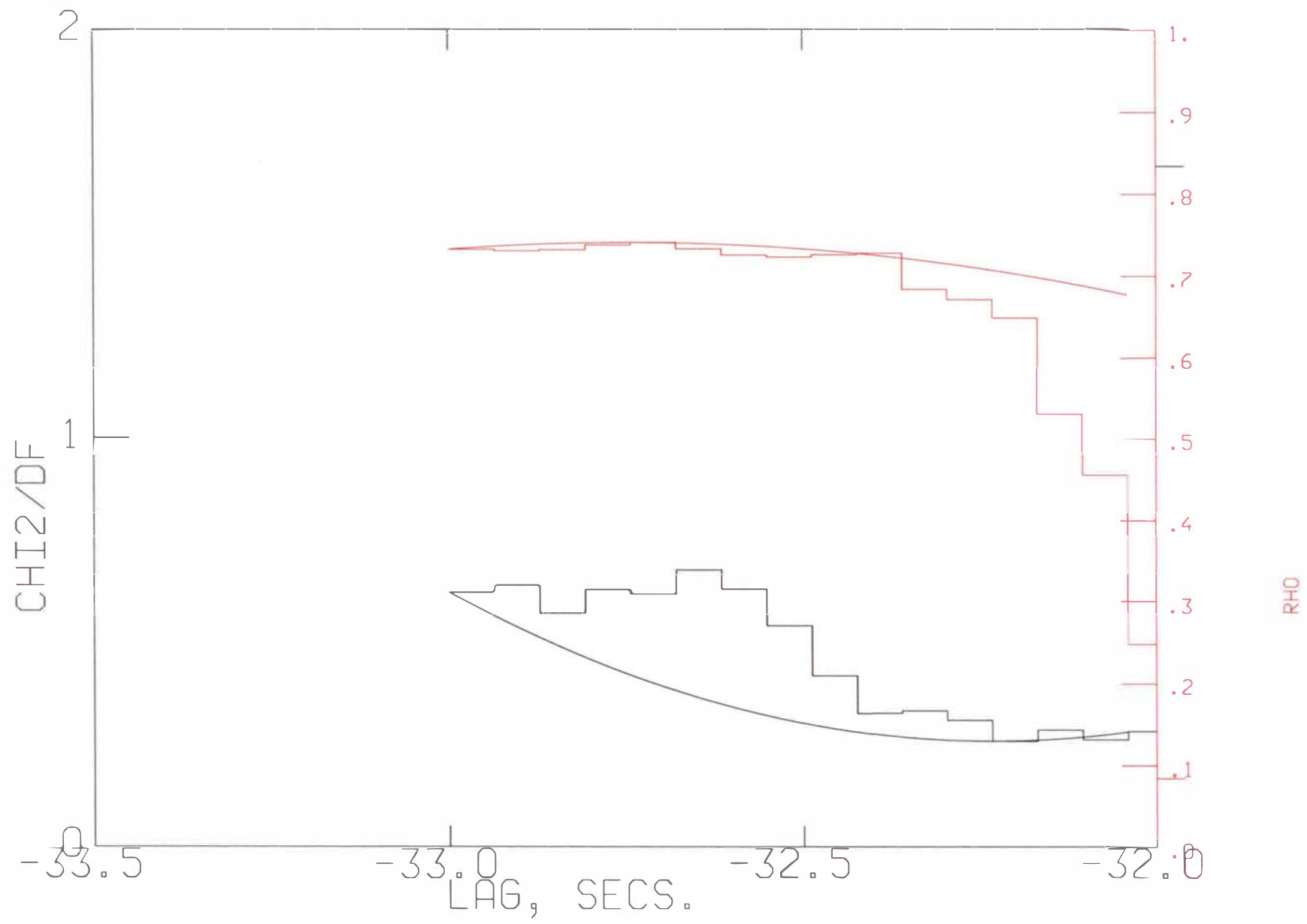


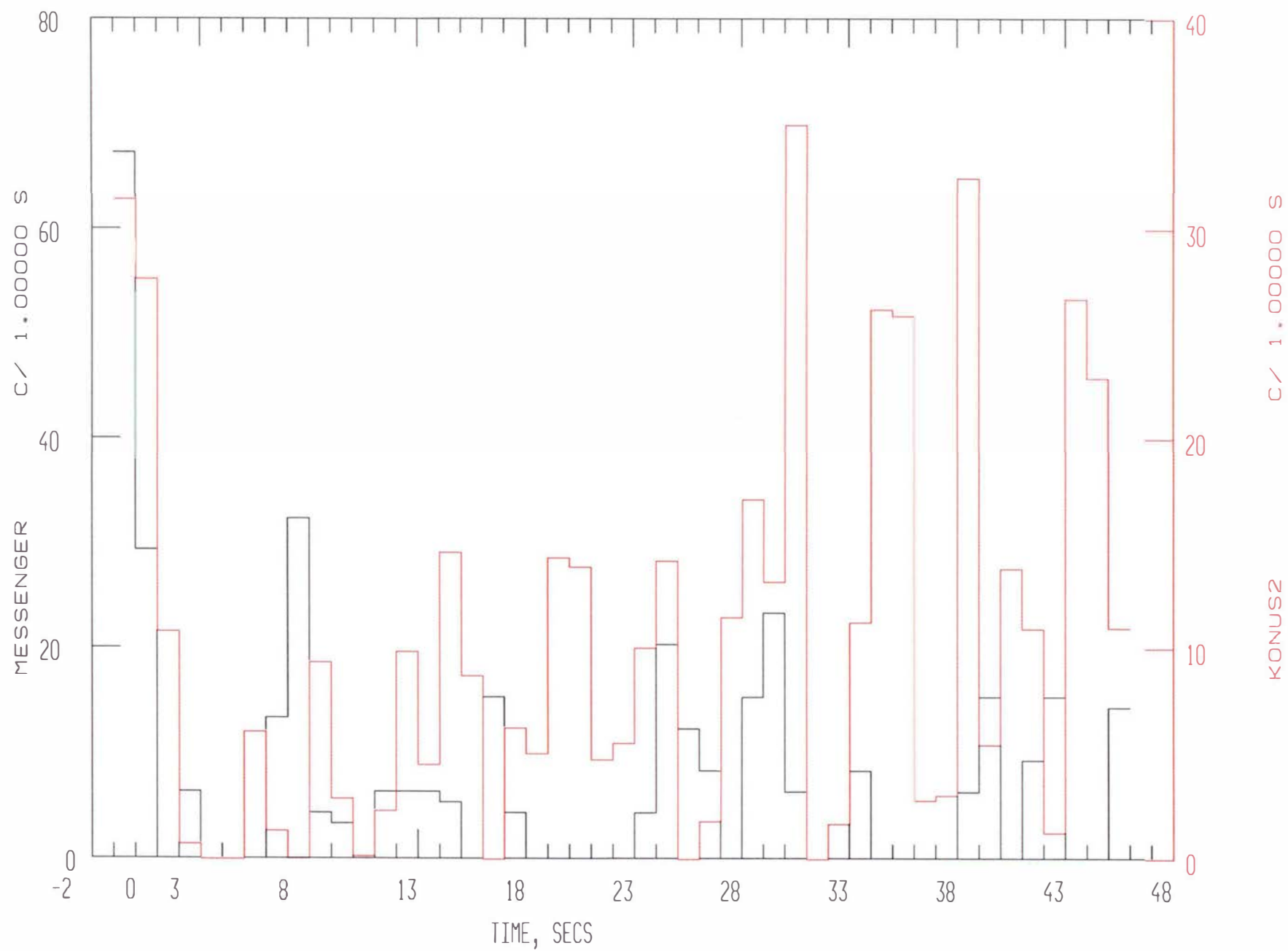












Date: Mar 15 2013 + Sep 20 2016

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?

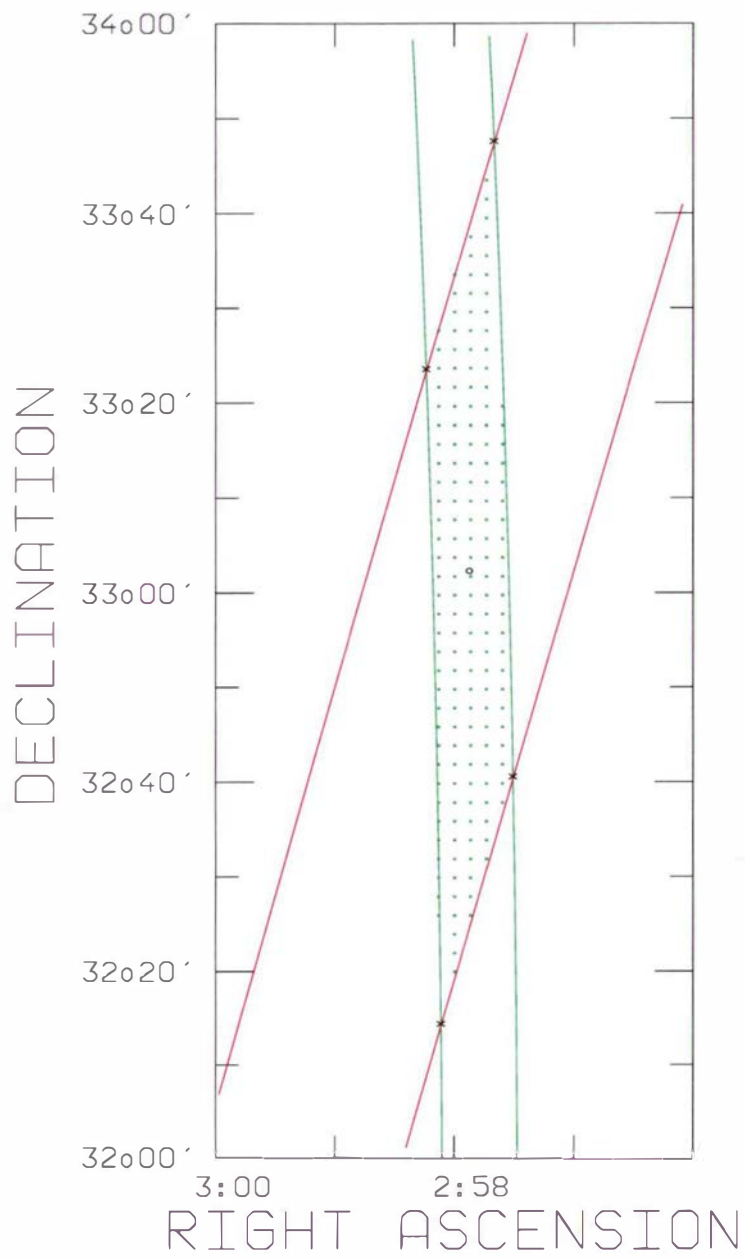
6. For 3 or More Spacecraft events

- ☒ $\Sigma 3\Delta t$'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)?

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



KONUS2

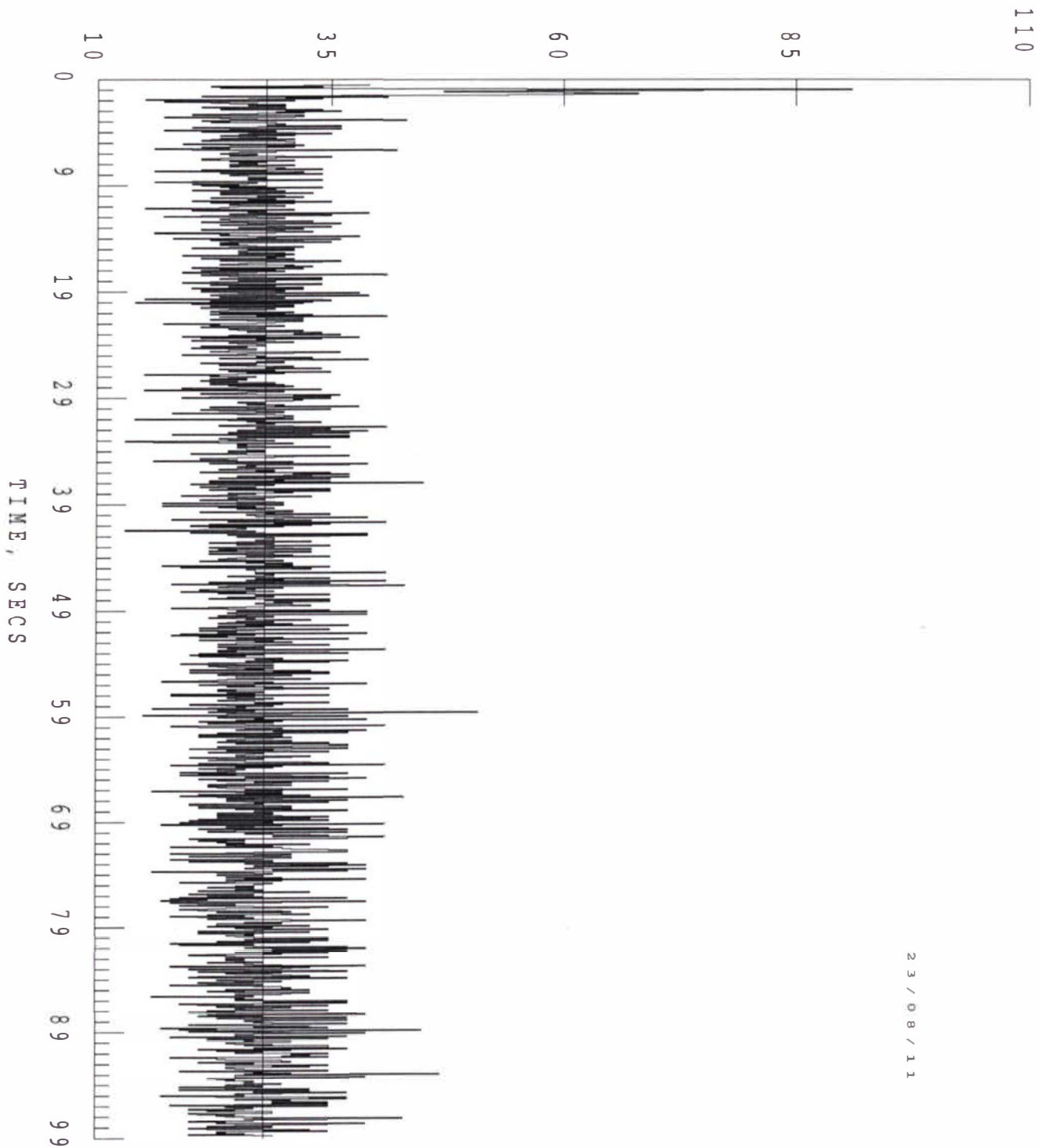
02/08/11

55156.191

B

50 - 200 keV

COUNTS/0.064 S



B

KONUS HRES 20110802 55156

TRIGGER TIME: 02/08/11 DOY 214 Julian 2455777.13838 UT = 15.321 15:19:16 (55156.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

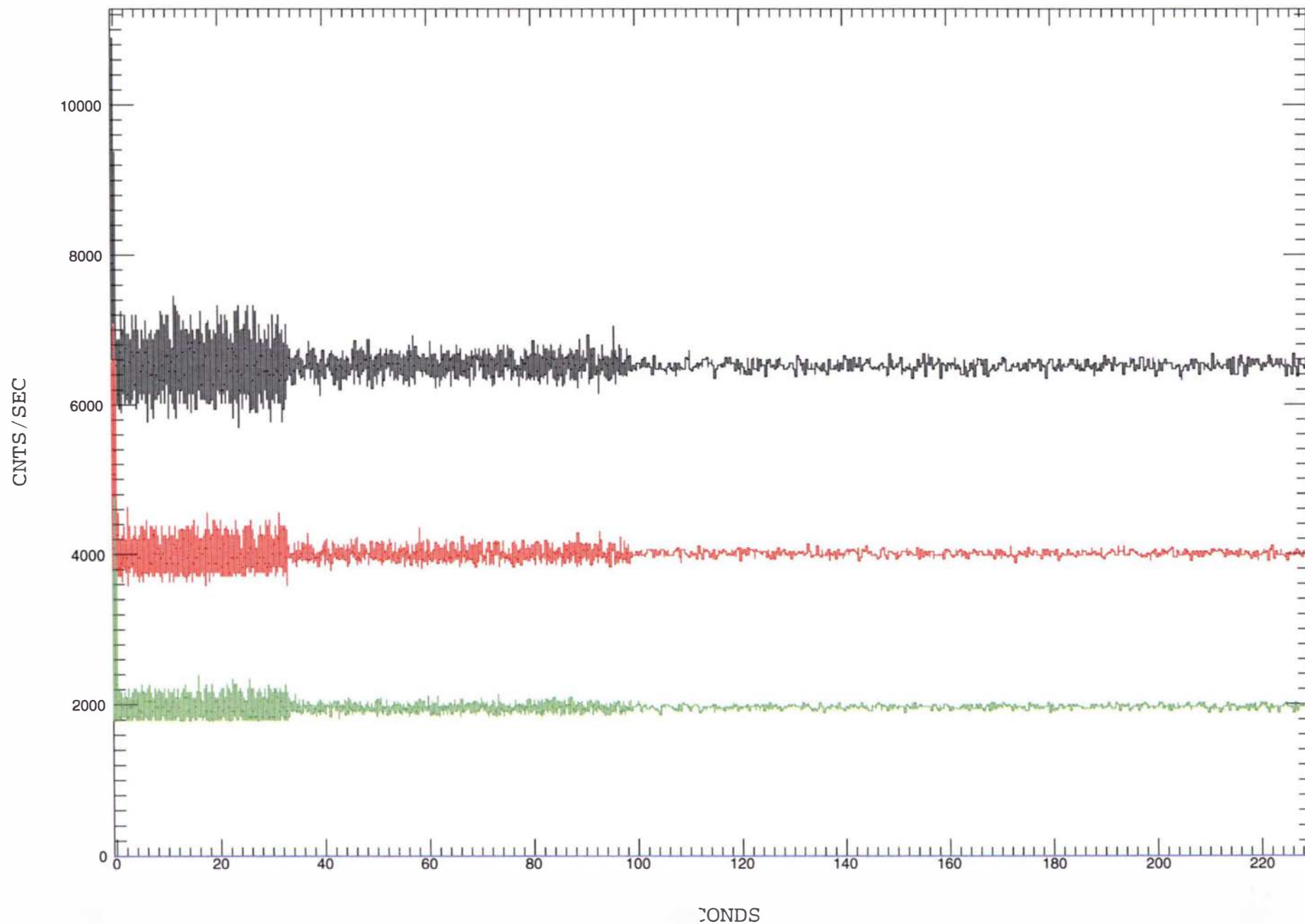
Chan 4 : [> 10 MeV]

Channel 1 + 5400

Channel 2 + 3600

Channel 3 + 1800

Channel 4 + 0



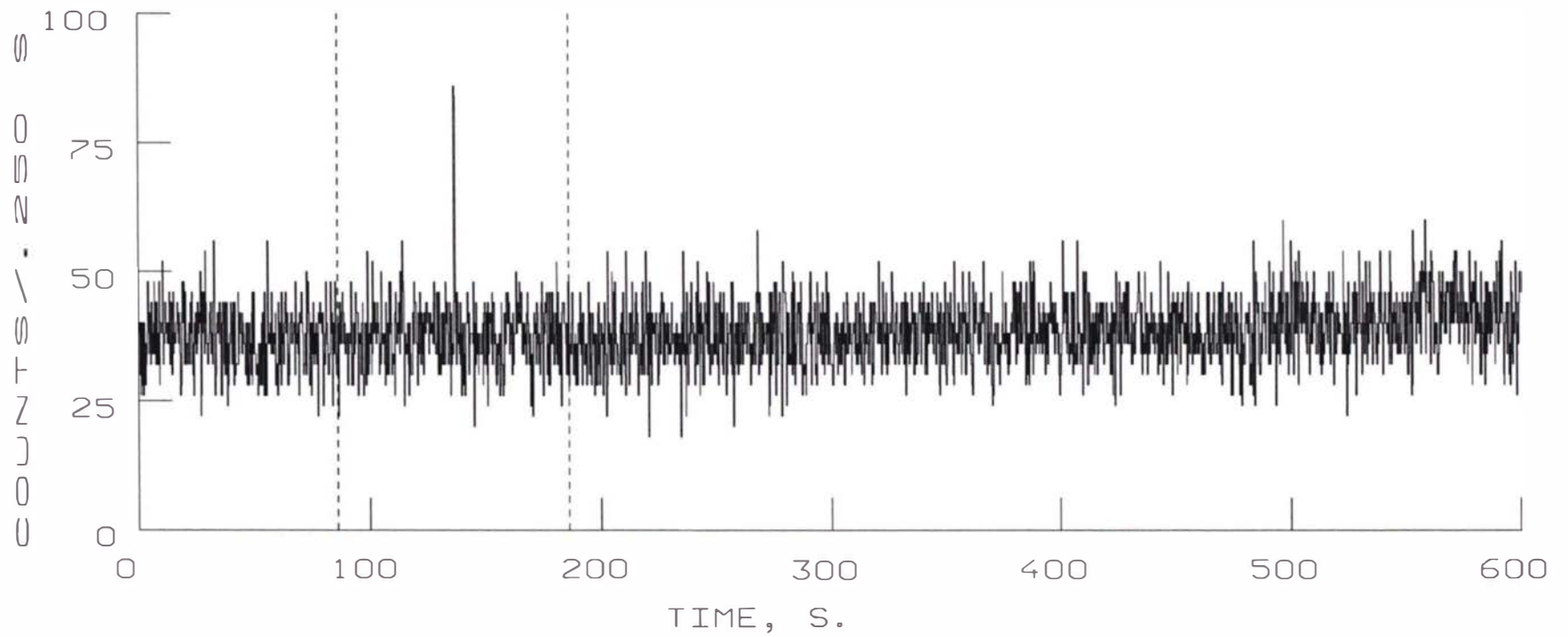
MS01 HEND

03/08/2011

02/08/2011 54211.926 s

50-3000 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



B

From williams@gammaburst.ssl.berkeley.edu Sun Aug 7 23:03:22 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Sun, 7 Aug 2011 23:02:35 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
Cc: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20110802_55156
X-Ucb-Scan-Signature: f9d084c7b5931f9ac02e45e4defd931cc5952e6e
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.811'

X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 7-Aug-2011 23:02:42.00
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

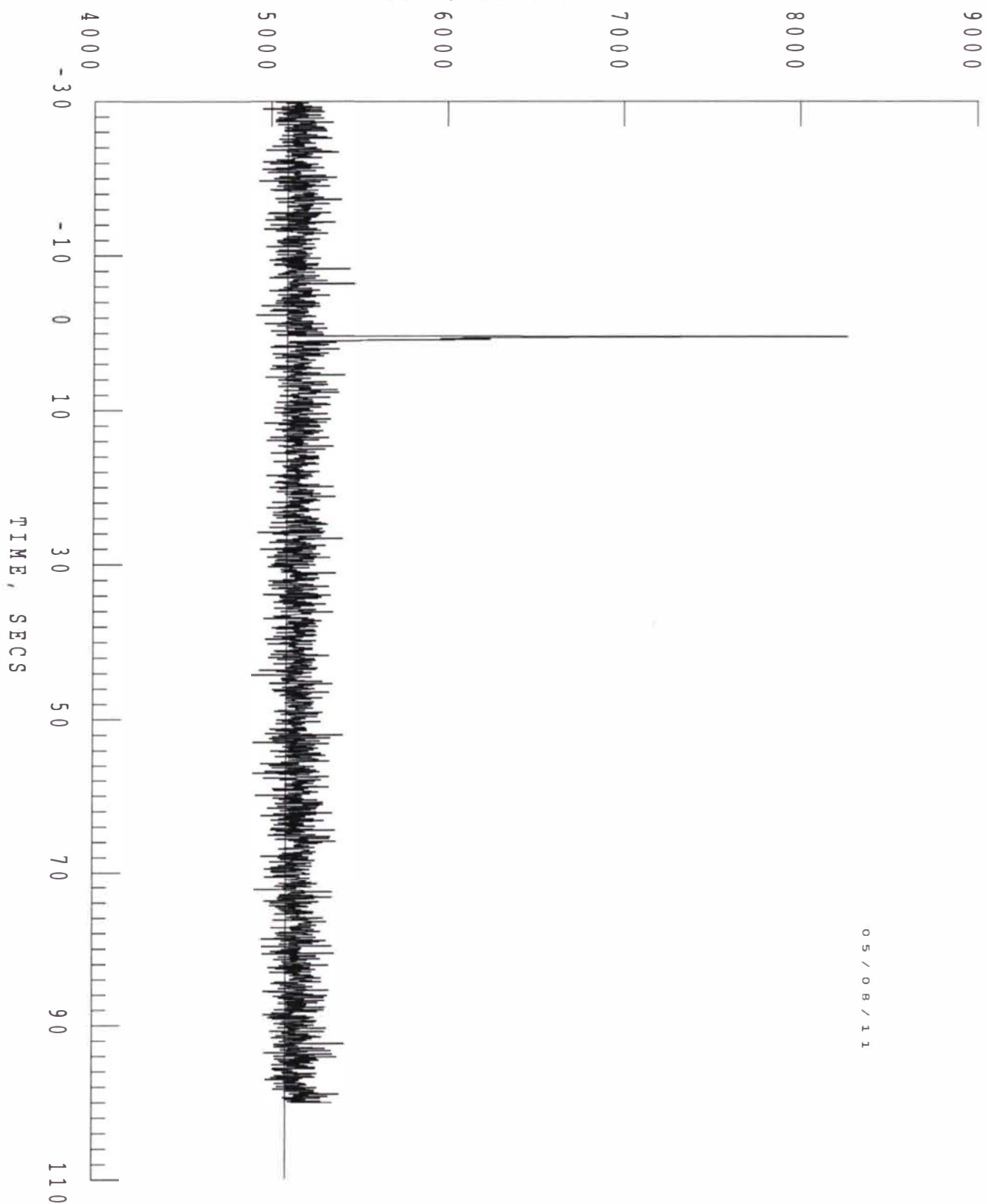
02/08/11

55157.020

B

100-10000 keV

COUNTS/0.050 S



05/08/11

SUZAKU

02/08/11

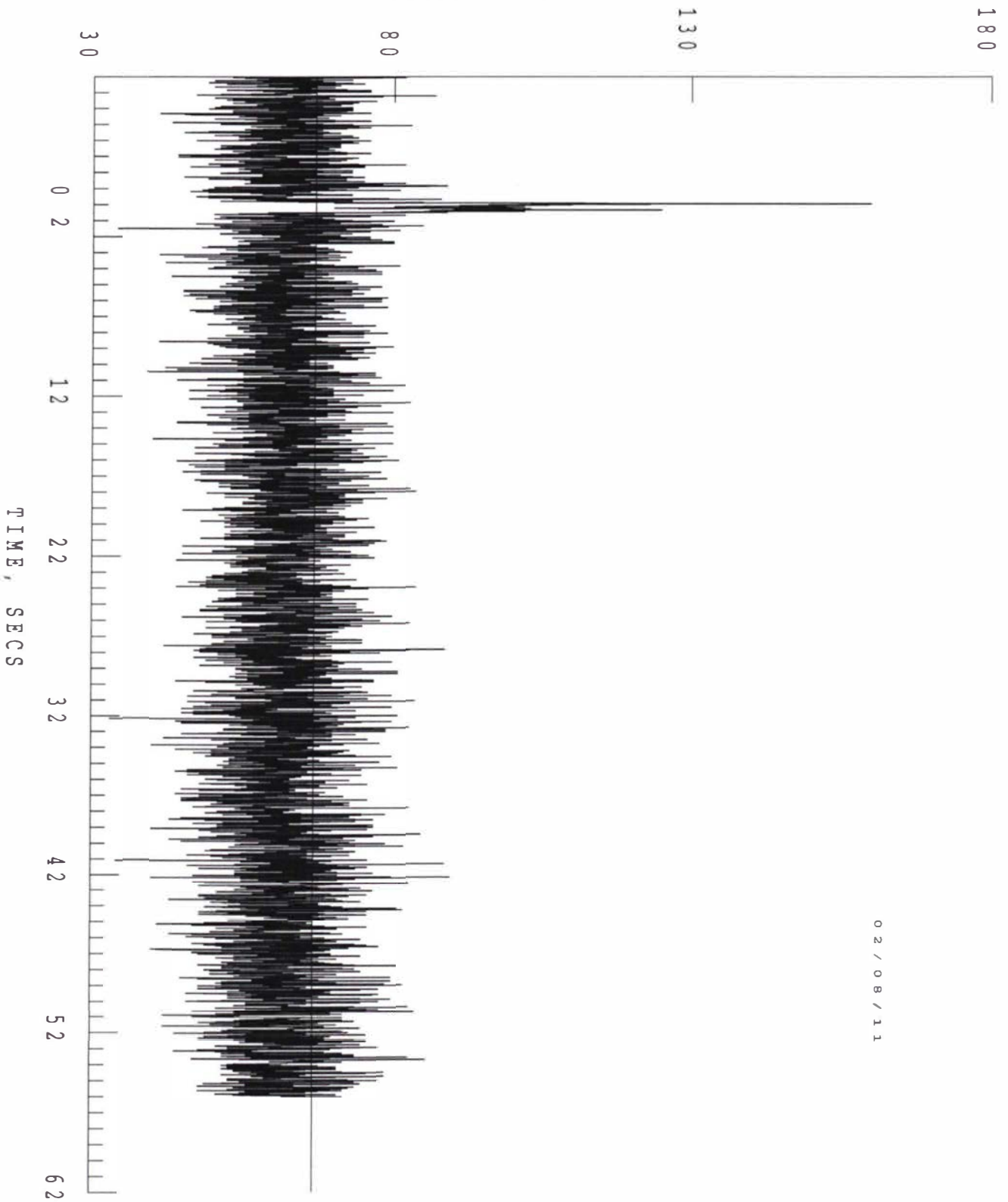
55157.686

15:19:17

B

50 - 240 keV

COUNTS/0.016 S



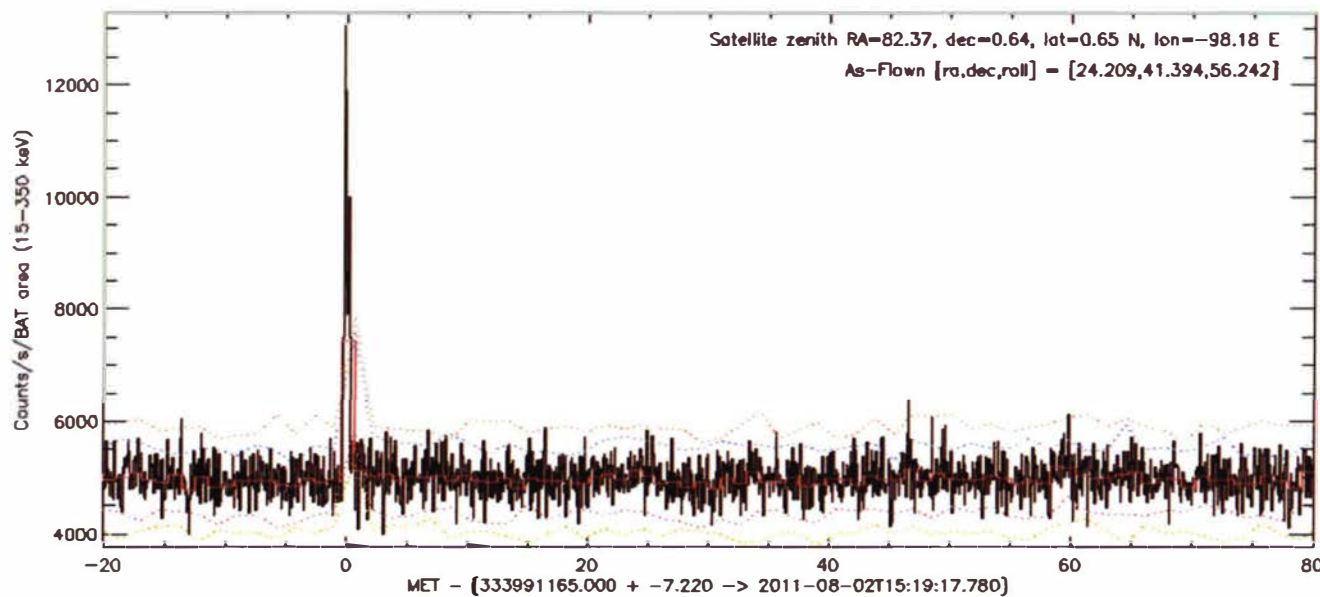
Subject: [Ipn] Burst during slew yesterday 15:19
From: David Palmer <palmer@lanl.gov>
Date: Wed, 3 Aug 2011 09:55:54 -0600
To: Fermi GBM-BA <gbm-ba@mpe.mpg.de>, "R. Marc Kippen" <mkippen@lanl.gov>, BAT TEAM <bat_team@bigbang.gsfc.nasa.gov>, IPN <ipn@ssl.berkeley.edu>

Probable short GRB during slew at 2011-08-02T15:19:17

Event data was generated for this slew
from [8.541, -9.701 69.081] to [24.208, 41.394 56.242]

Time(MET + UTCF -> UT): 333991165.000 + -7.220 -> 2011-08-02T15:19:17.780
Swift Zenith(RA,dec): 82.37, 0.64
Swift Location(lon,lat,alt): -98.18 E, 0.65 N, 594 km
Obs Sequence Number: 00036404007
Obs Target Name: Ups And
Obs Date and Times: 2011-08-02 15:18:54 - 15:23:49
Obs Pointing(ra,dec,roll): 24.209, 41.394, 56.24

110802_1519.png



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

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

110802_1519.png Content-Type: image/png
Content-Encoding: base64

Part 1.3

Part 1.3 Content-Type: text/plain

Content-Encoding: 7bit

110802_1519_bat64ms_ipn

110802_1519_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.6

Part 1.6	Content-Type: text/plain
	Content-Encoding: 7bit

B

From ipn-bounces@ssl.berkeley.edu Wed Aug 3 10:18:08 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Wed, 3 Aug 2011 13:18:32 -0400
From: Jay Cummings <Jay.Cummings@nasa.gov>
o: David Palmer <palmer@lanl.gov>
X-Proofpoint-Envelope-Sender: james.r.cummings@nasa.gov
Cc: IPN <ipn@ssl.berkeley.edu>, "R. Marc Kippen" <mkippen@lanl.gov>, BAT@berkeley.edu, Fermi GBM-BA <gbm-ba@mpe.mpg.de>, TEAM <bat_team@bigbang.gsfc.nasa.gov>
Subject: Re: [Ipn] Burst during slew yesterday 15:19
X-Ucb-Scan-Signature: 7a124c8bcbacebdec7de110c7b13ceb9f4c1497e
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_MESSAGE 0.001, RCVD_IN_DNSWL_MED -2.3, RP_MATCHES_RCVD -0.716'
X-Ucb-Notice: This message has been processed by a spam tagging system.

The energy response, all above 50 keV, indicates that it was not in the field of Jay

On 8/3/11 11:55 AM, David Palmer wrote:

> Probable short GRB during slew at 2011-08-02T15:19:17
>
> Event data was generated for this slew
> from [8.541, -9.701 69.081] to [24.208, 41.394 56.242]
>
> Time(MET + UTCF -> UT): 333991165.000 + -7.220 -> 2011-08-02T15:19:17.78
> Swift Zenith(RA,dec): 82.37, 0.64
> Swift Location(lon,lat,alt): -98.18 E, 0.65 N, 594 km
> Obs Sequence Number: 00036404007
> Obs Target Name: Ups And
Obs Date and Times: 2011-08-02 15:18:54 - 15:23:49
Obs Pointing(ra,dec,roll): 24.209, 41.394, 56.24
>

B

01/07/11

MESSENGER

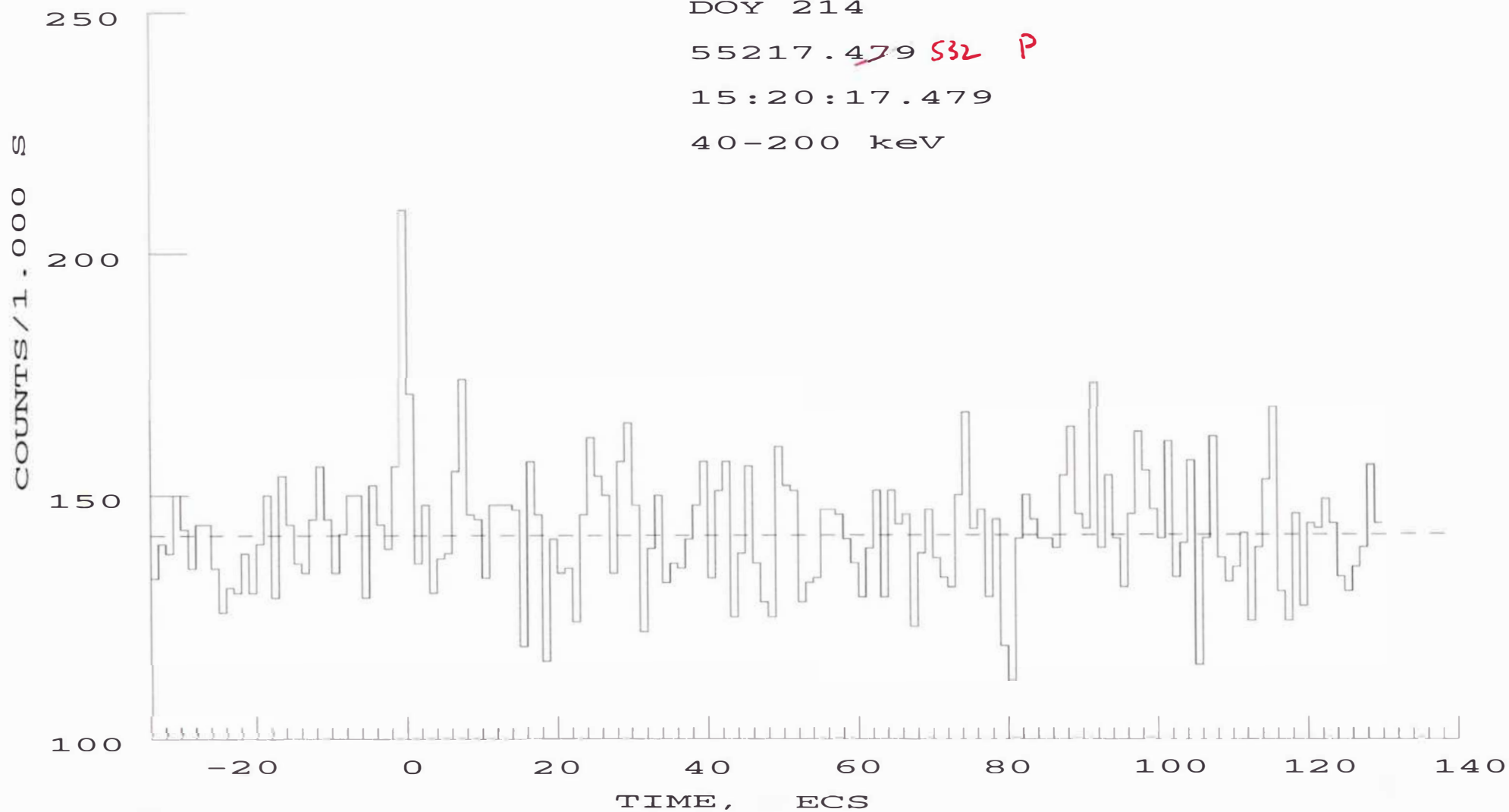
02/08/11

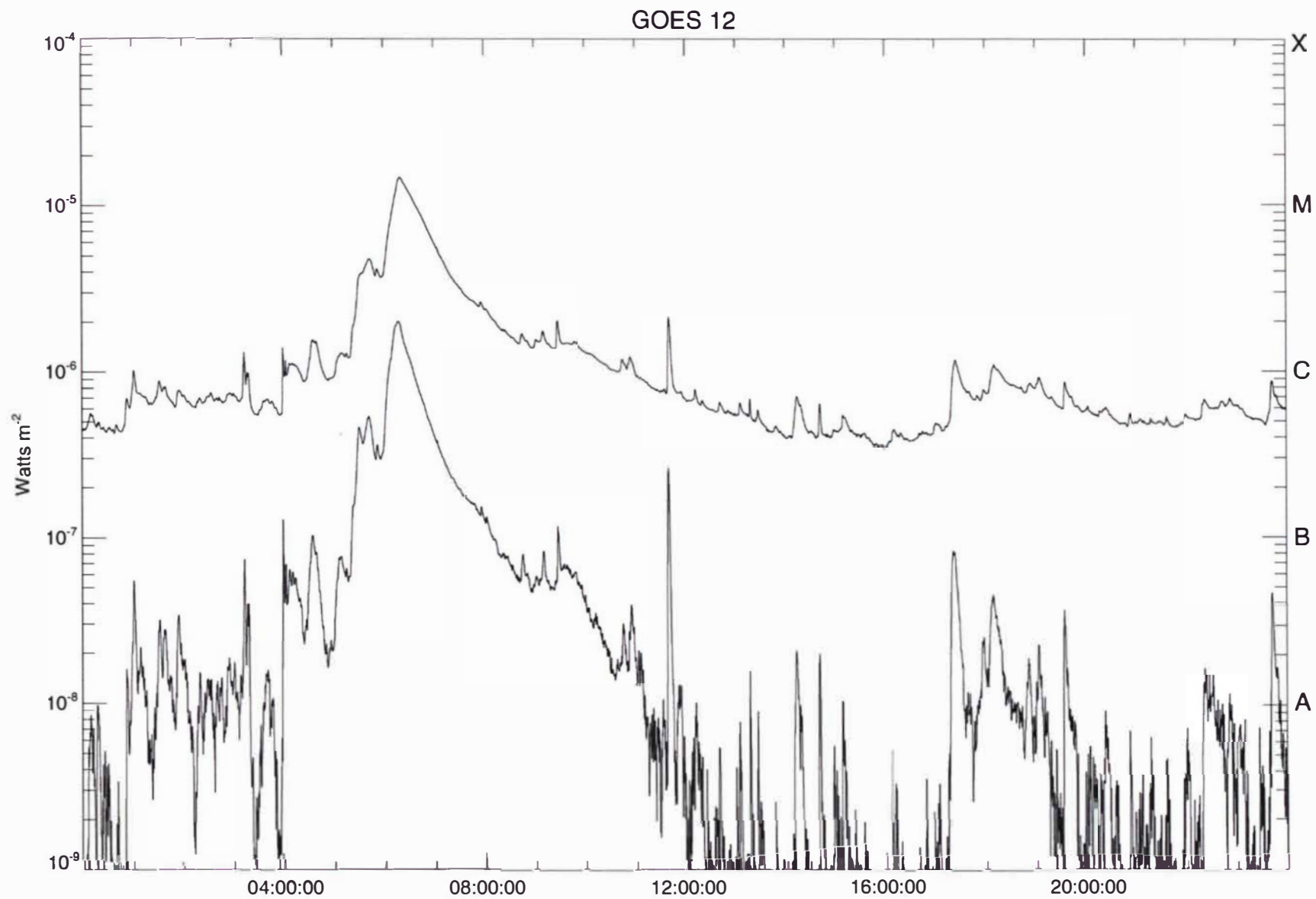
DOY 214

55217.479 *S32 P*

15:20:17.479

40-200 keV





Data Start: 11/08/02, 0000:09

Plot created: 11/08/05, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

03/08/11

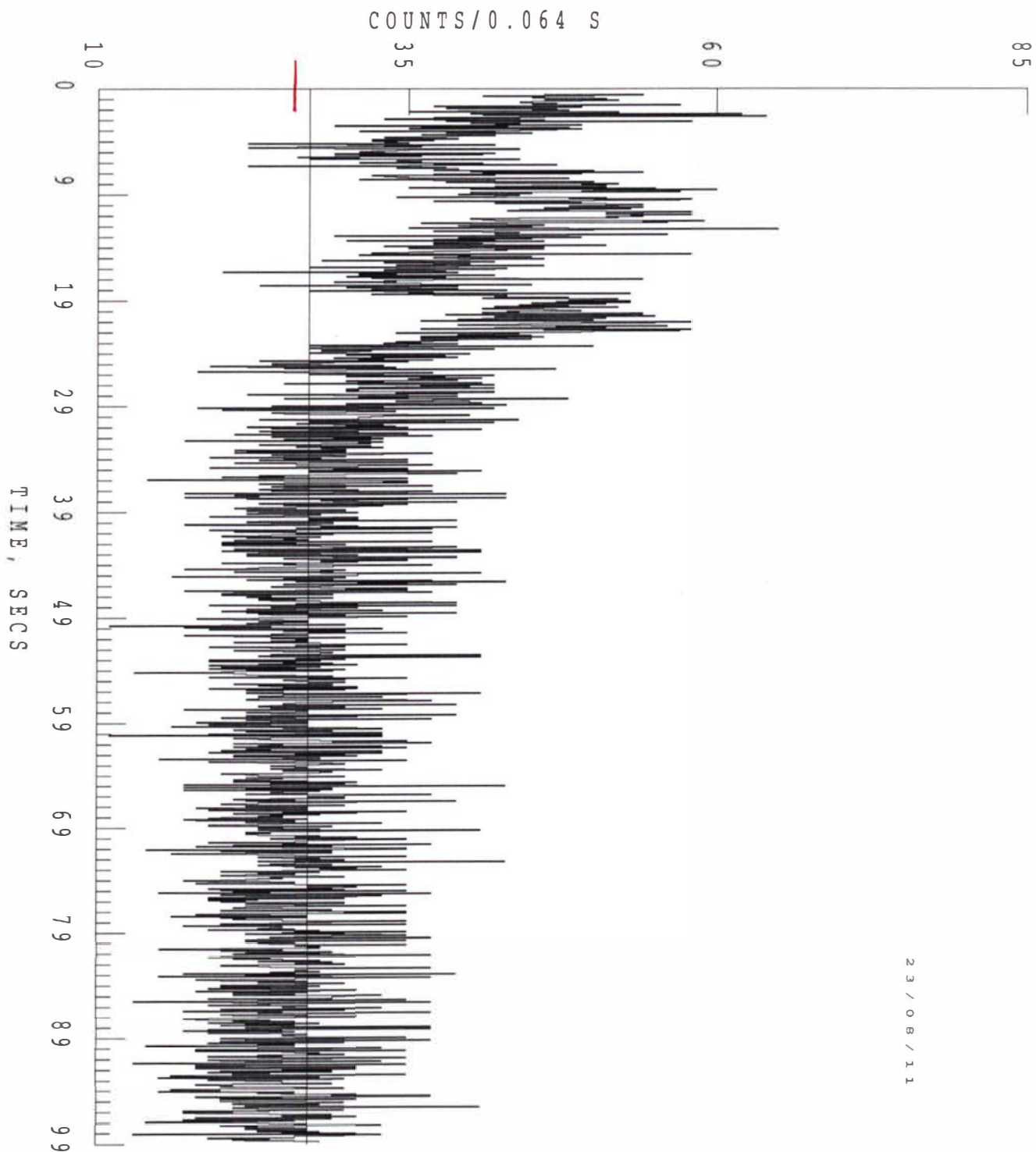
16261.758

Solar

A

50 - 200 keV

04:31:01



KONUS HRES 20110803 16261

TRIGGER TIME: 03/08/11 DOY 215 Julian 2455777.68821 UT = 04.517 04:31:01 (16261.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

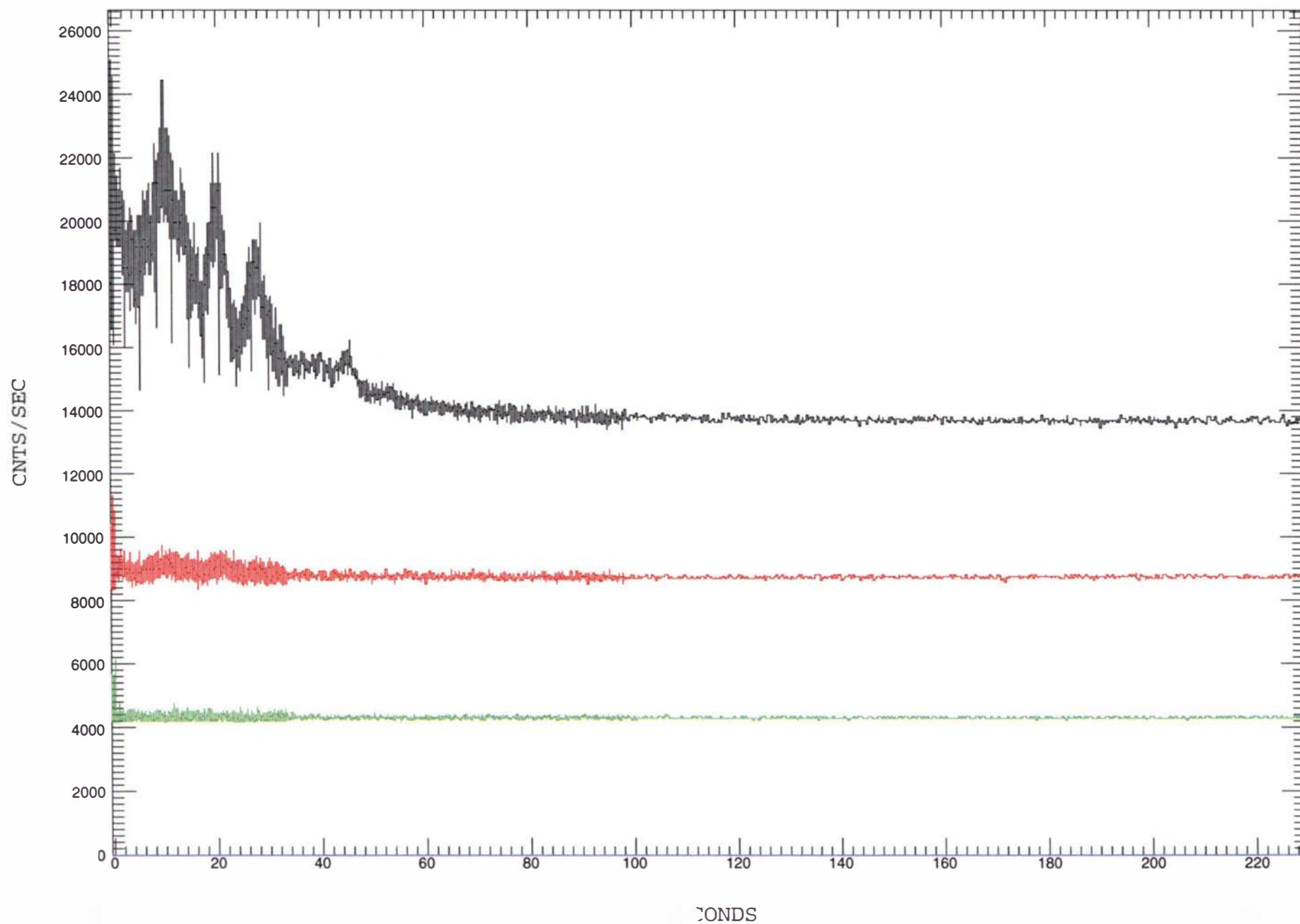
Chan 4 : [> 10 MeV]

Channel 1 + 12600

Channel 2 + 8400

Channel 3 + 4200

Channel 4 + 0



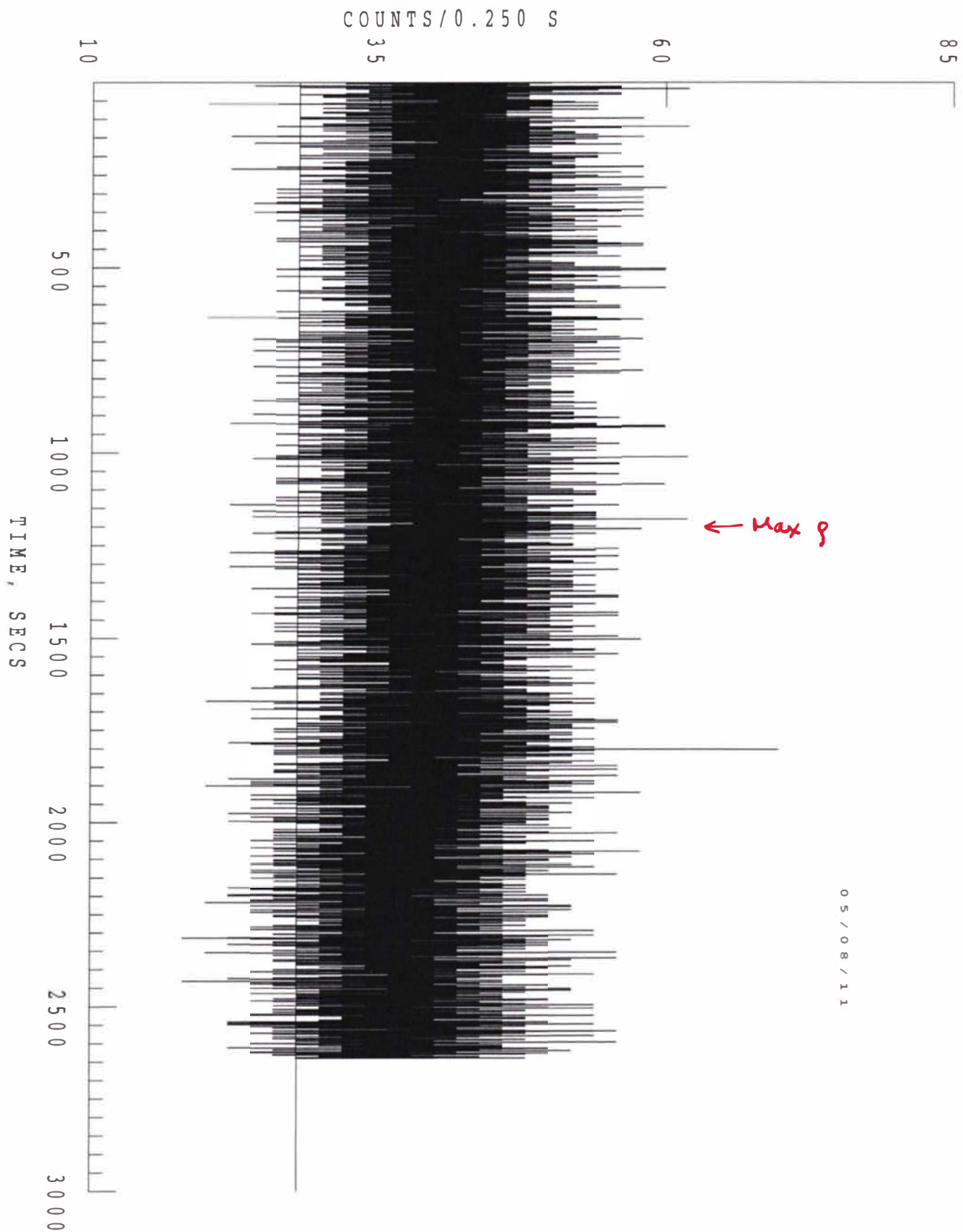
MS01

03/08/11

14911.129

A

50 - 3000 keV



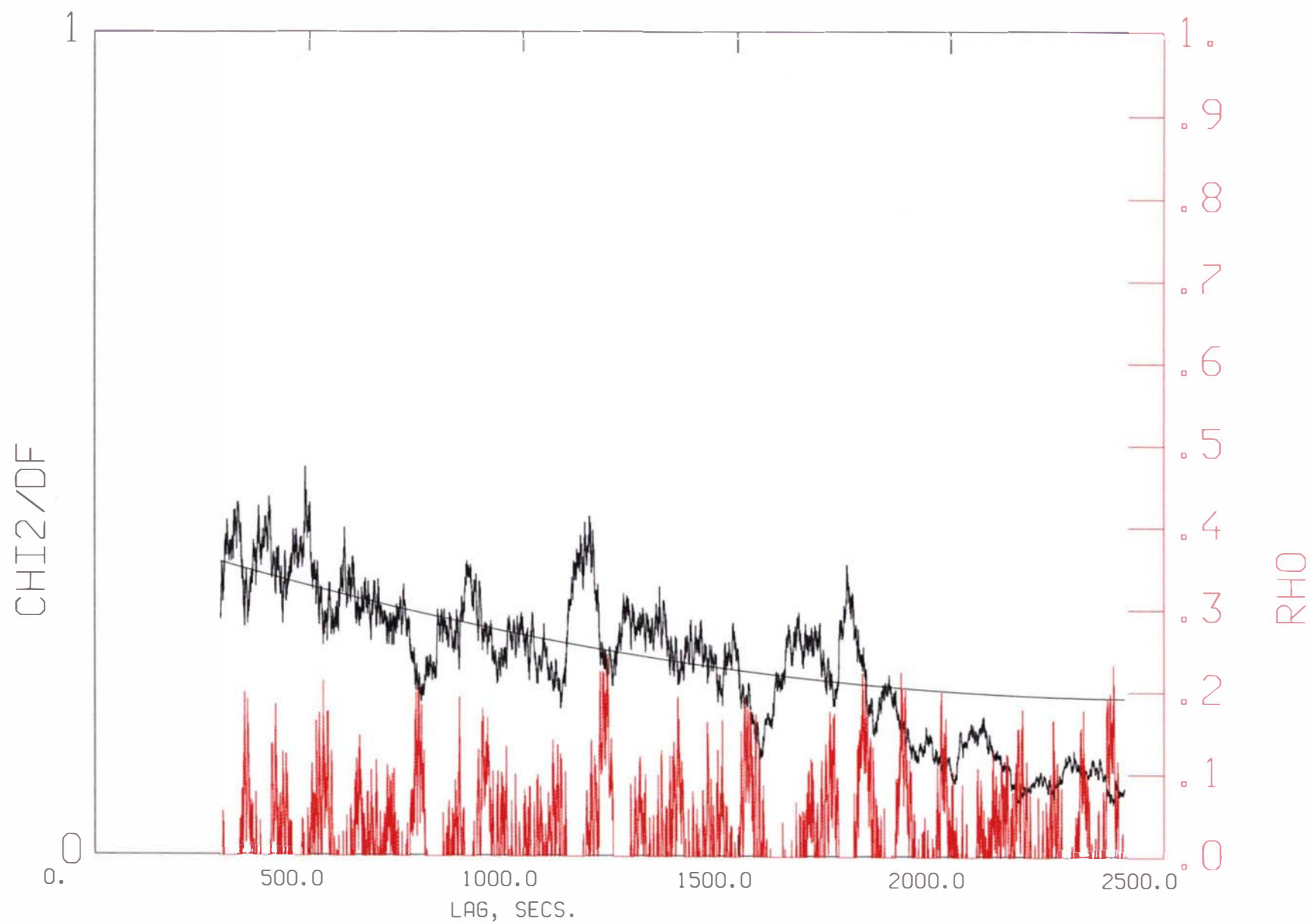
KONUS2

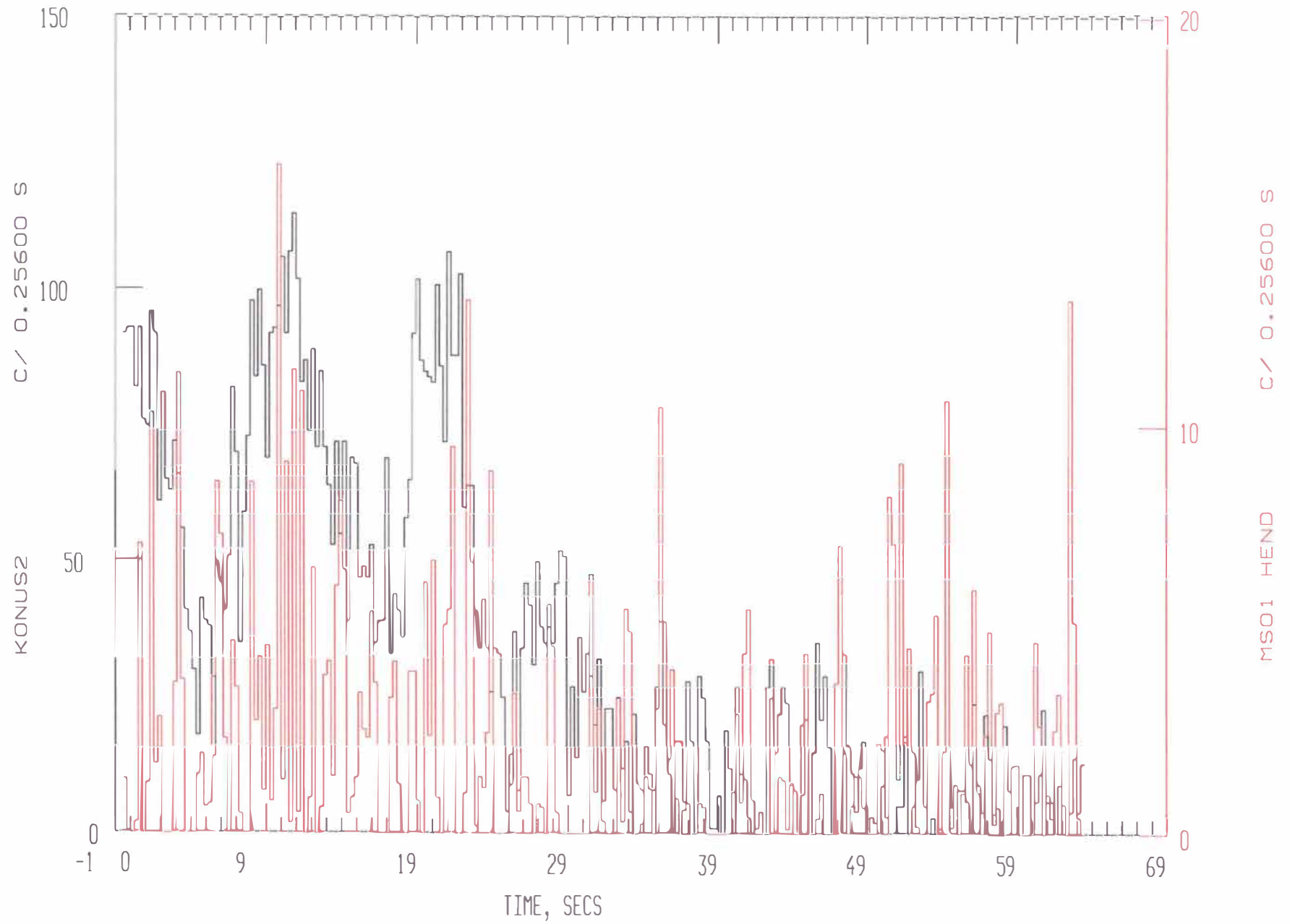
-MS01 HEND CORRELATION

03/08/11

16261.758

28/ 9/11





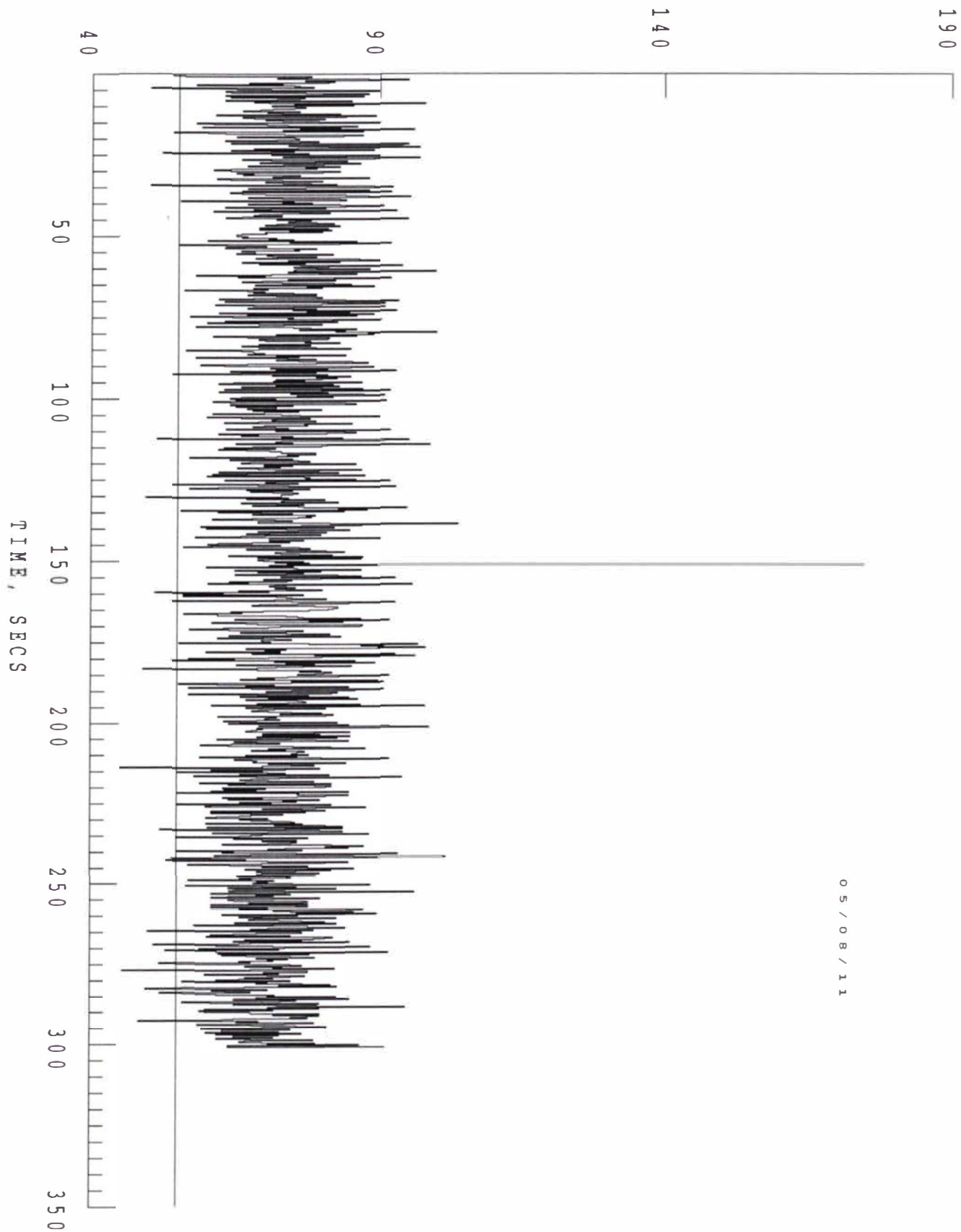
HESSI

03/08/11 16110.000 (KONUS2_20110803_16261)

A

25- 150 keV

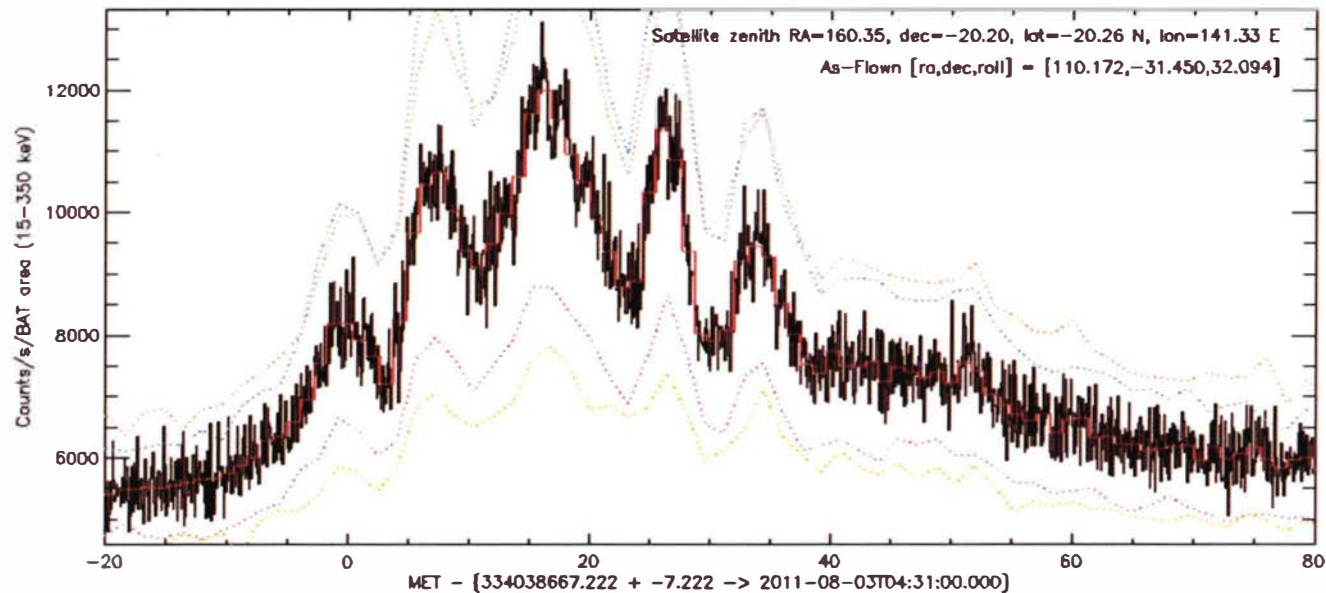
COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 110803_0431
From: palmer+automatic_lightcurve@lanl.gov
Date: Wed, 3 Aug 2011 11:34:29 -0600 (MDT)
To: gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/110803_0431.png



```
% /usr/local/bin/swinfo -o 334038667.222
Time(MET + UTCF -> UT):      334038667.222 + -7.222 -> 2011-08-03T04:31:00.000
Swift Zenith(RA,dec):        160.35, -20.20
Swift Location(lon,lat,alt):  141.33 E, -20.26 N, 586 km
Obs Sequence Number:         00032036003
Obs Target Name:              RX J0720.4-3125
Obs Date and Times:           2011-08-03 04:12:54 - 04:33:49
Obs Pointing(ra,dec,roll):    110.172, -31.450, 32.09
```

--
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>

/tmp/110803_0431.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110803_0431_bat64ms_ipn

/tmp/110803_0431_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

A

28/09/11

MESSENGER

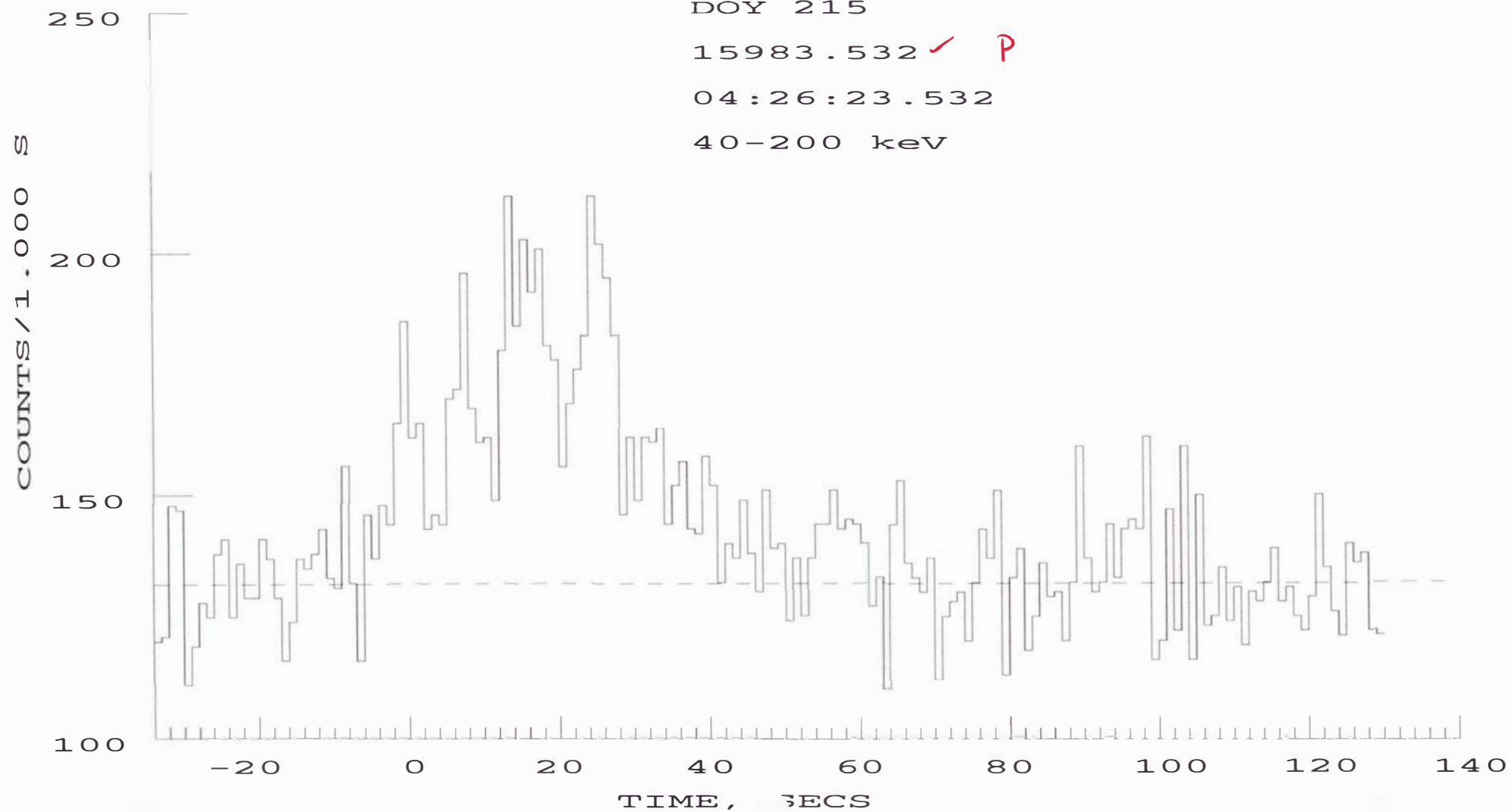
03/08/11

DOY 215

15983.532 ✓ P

04:26:23.532

40-200 keV



28/09/11

MESSENGER

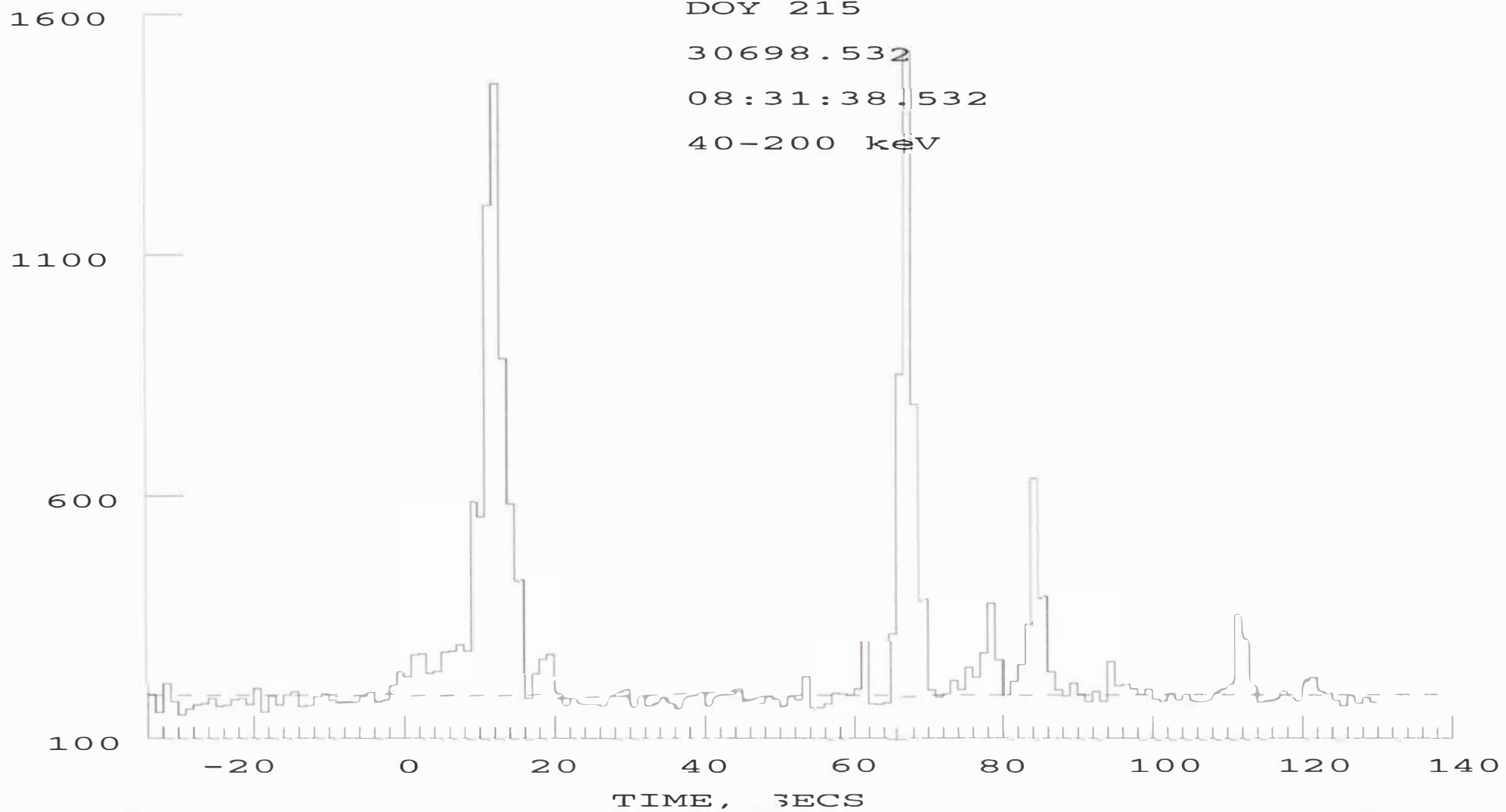
03/08/11

DOY 215

30698.532

08:31:38.532

40-200 keV



28/09/11

MESSENGER

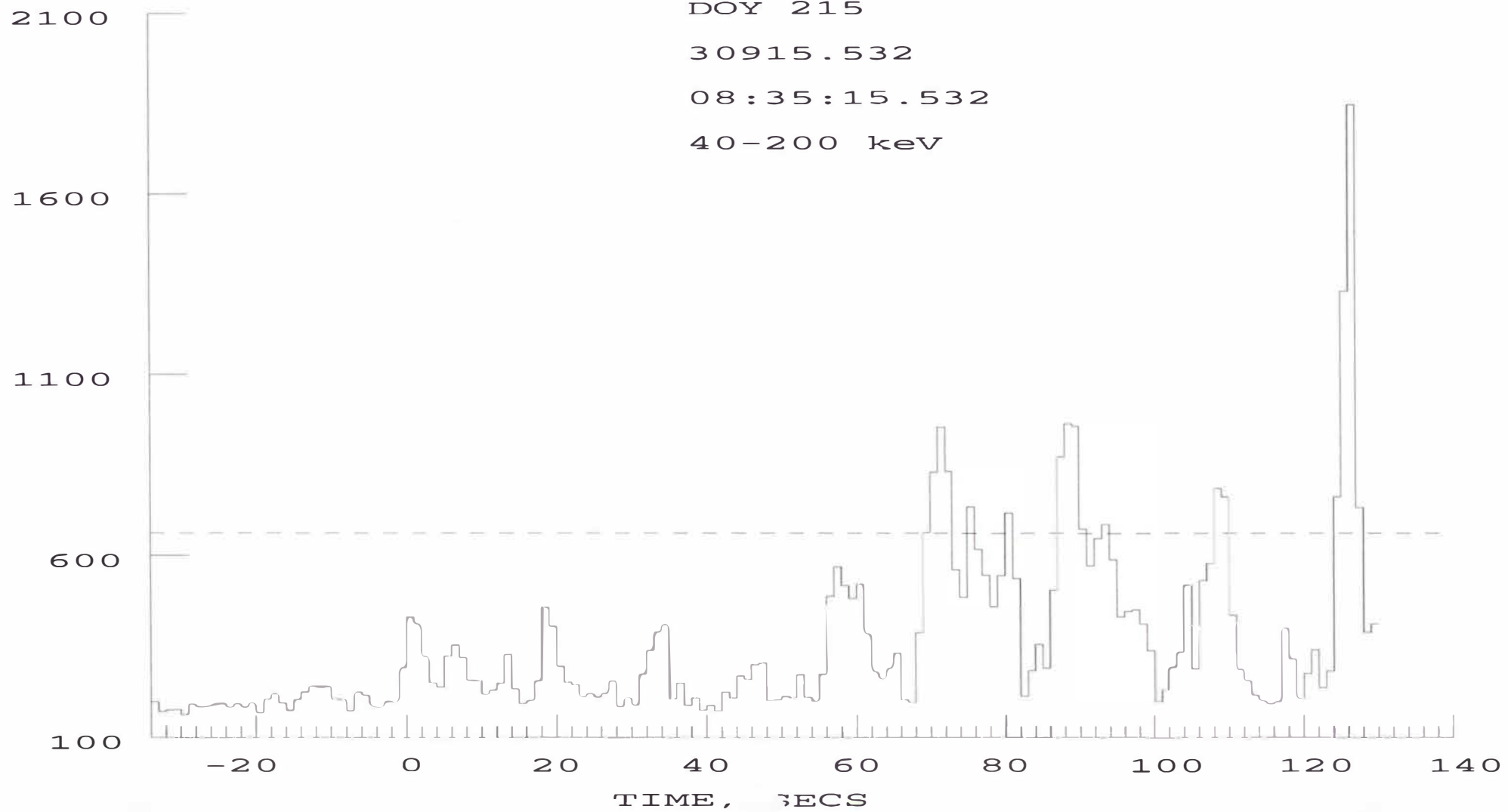
03/08/11

DOY 215

30915.532

08:35:15.532

40-200 keV



28/09/11

MESSENGER

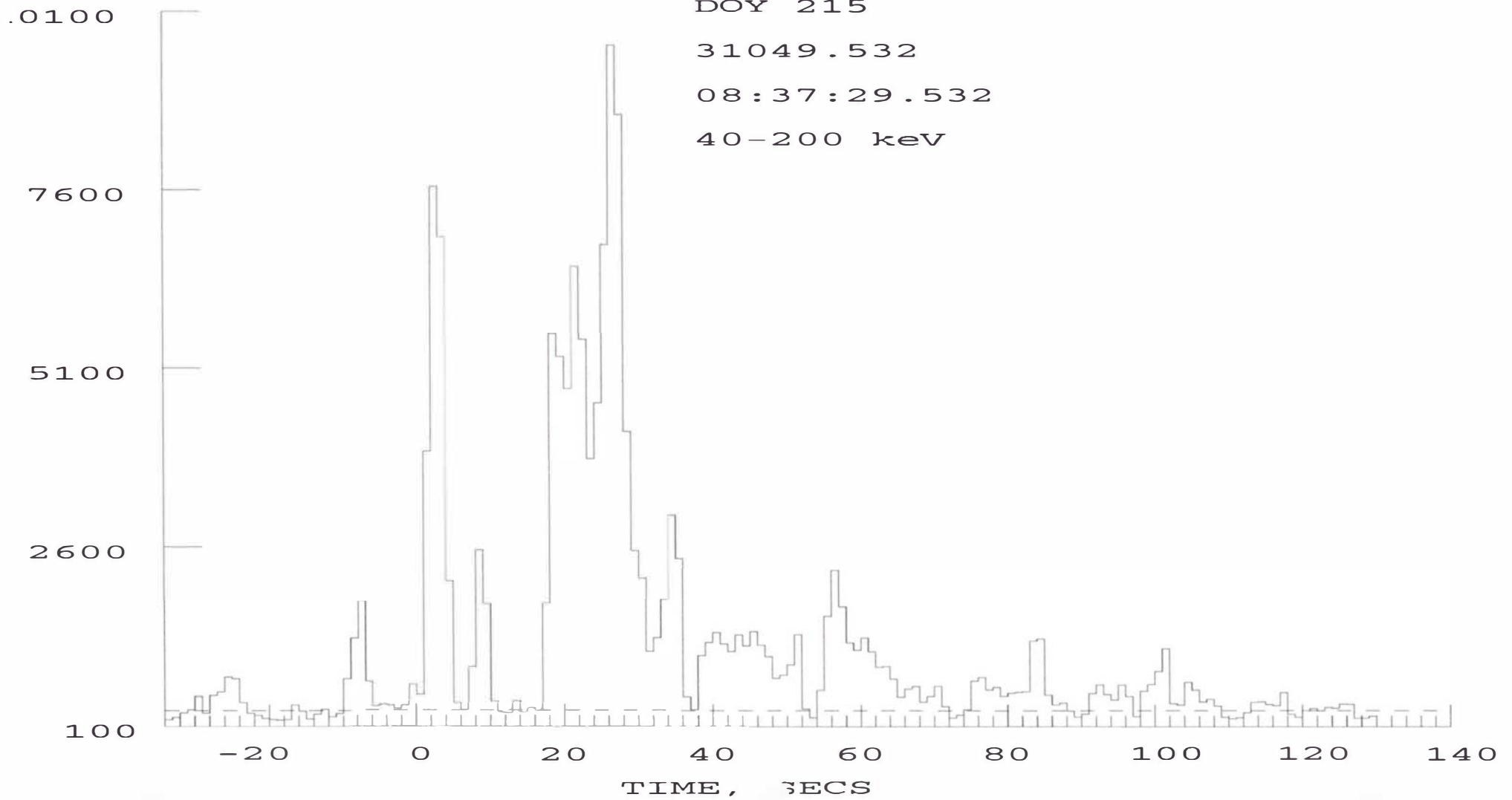
03/08/11

DOY 215

31049.532

08:37:29.532

40-200 keV



28/09/11

MESSENGER

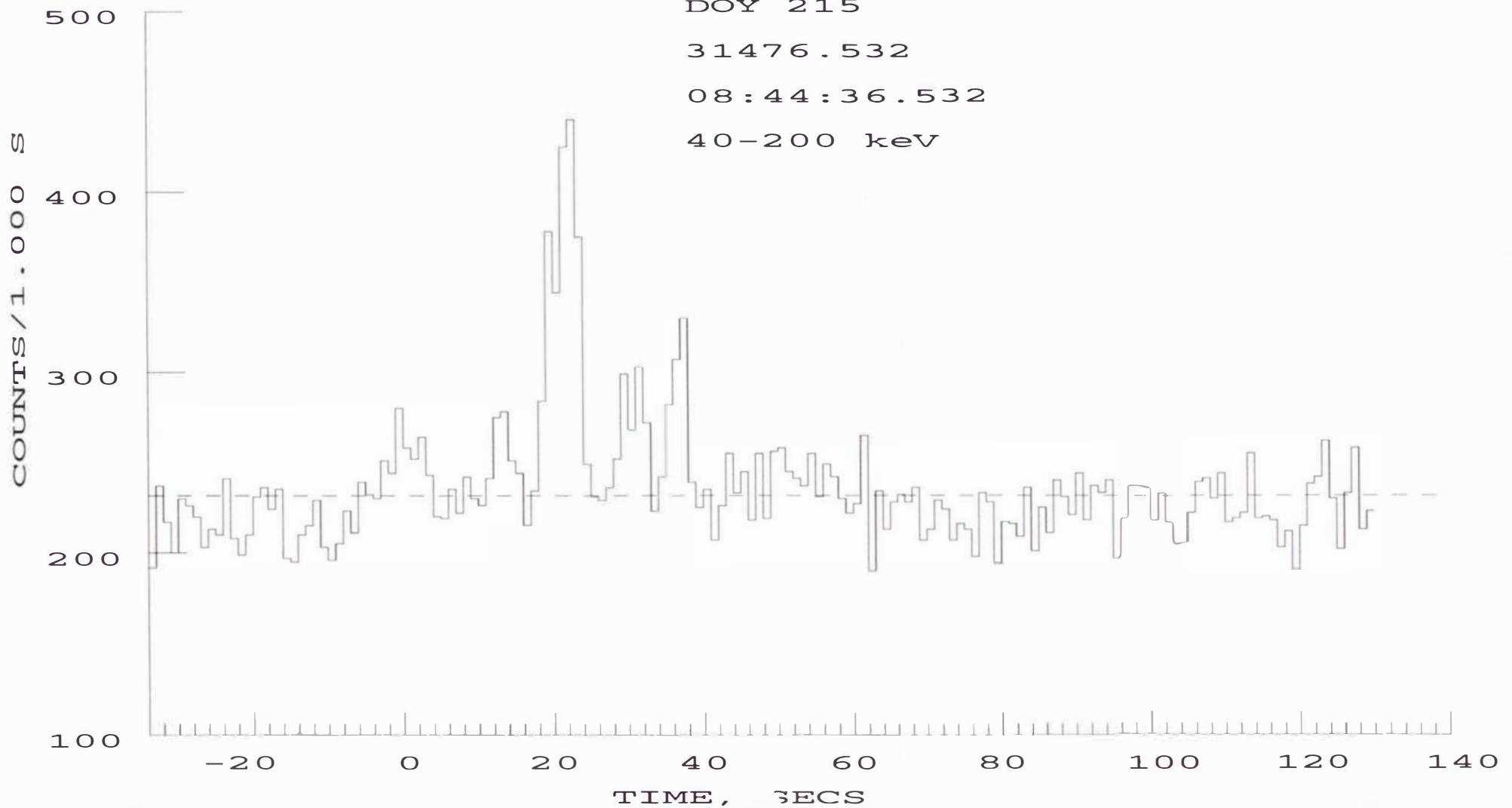
03/08/11

DOY 215

31476.532

08:44:36.532

40-200 keV



28/09/11

MESSENGER

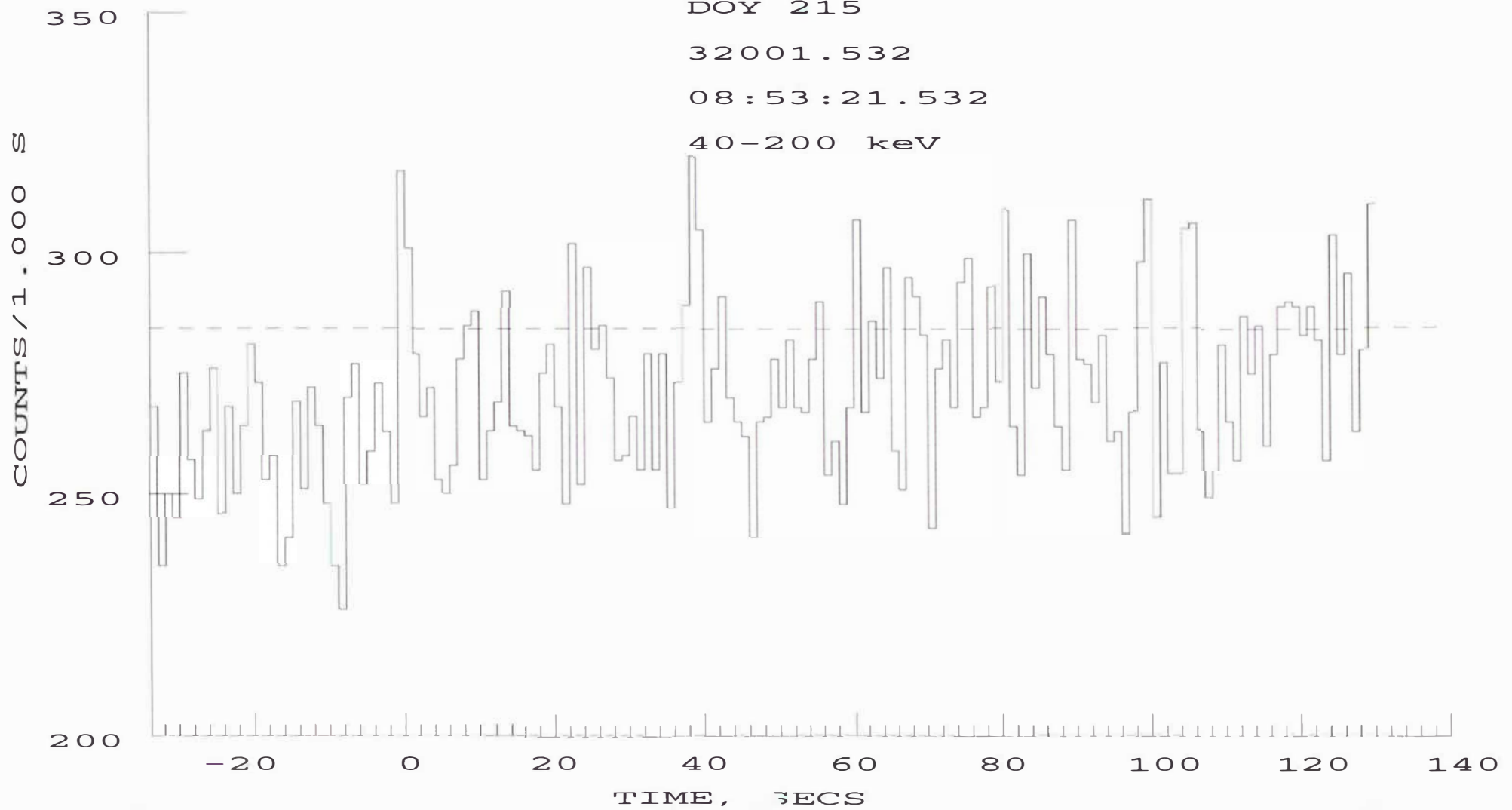
03/08/11

DOY 215

32001.532

08:53:21.532

40-200 keV



28/09/11

MESSENGER

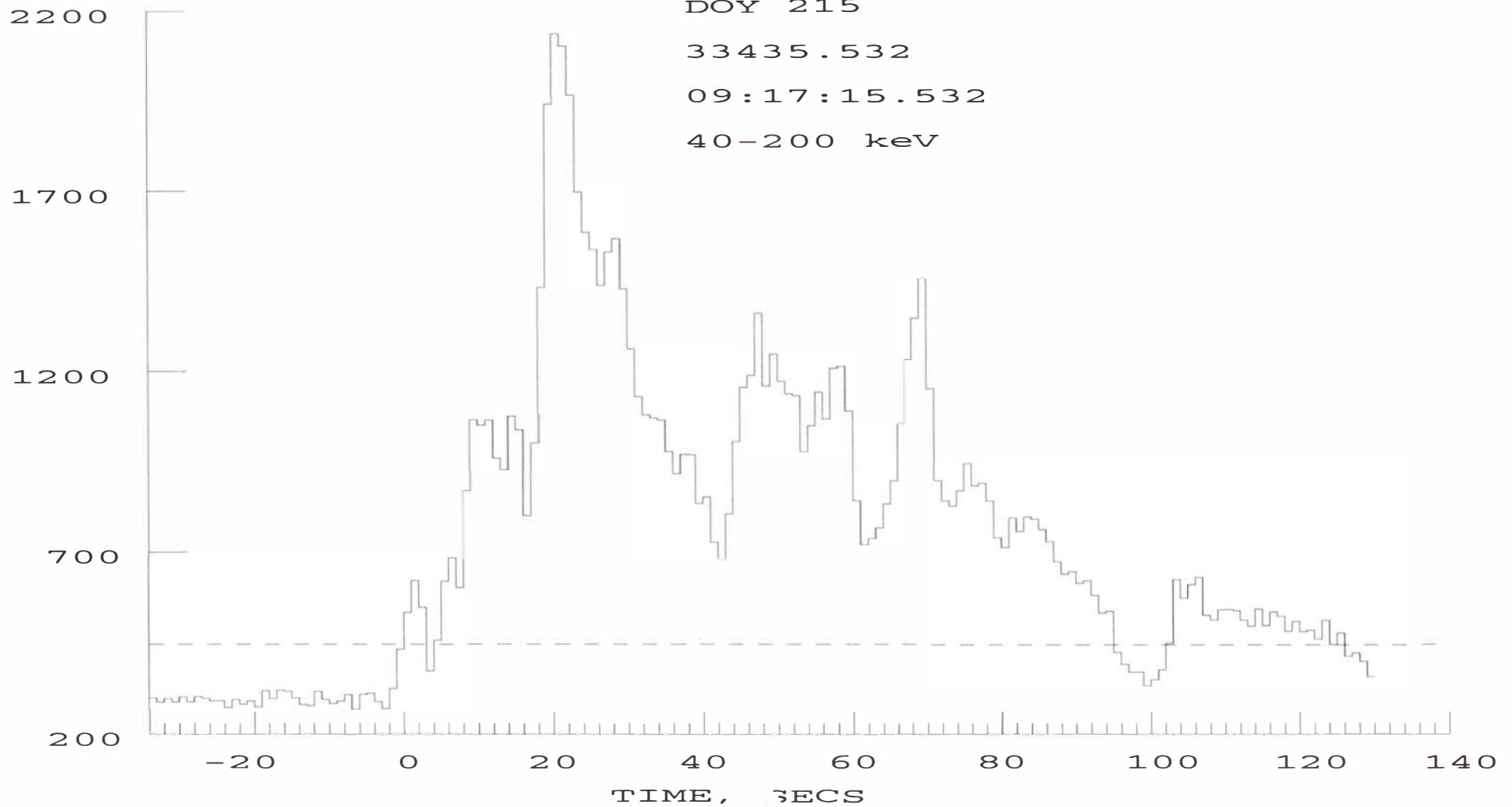
03/08/11

DOY 215

33435.532

09:17:15.532

40-200 keV



28/09/11

MESSENGER

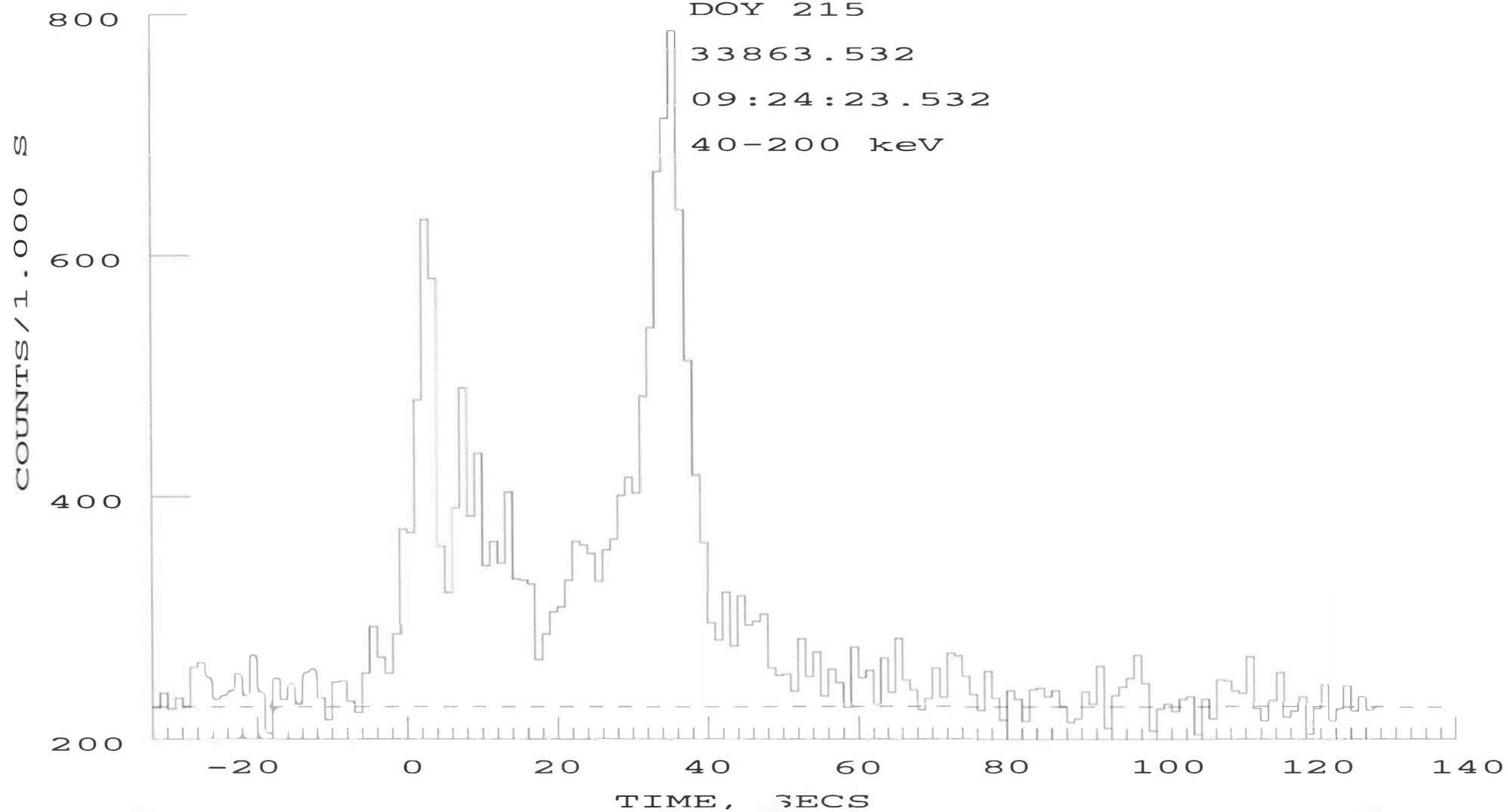
03/08/11

DOY 215

33863.532

09:24:23.532

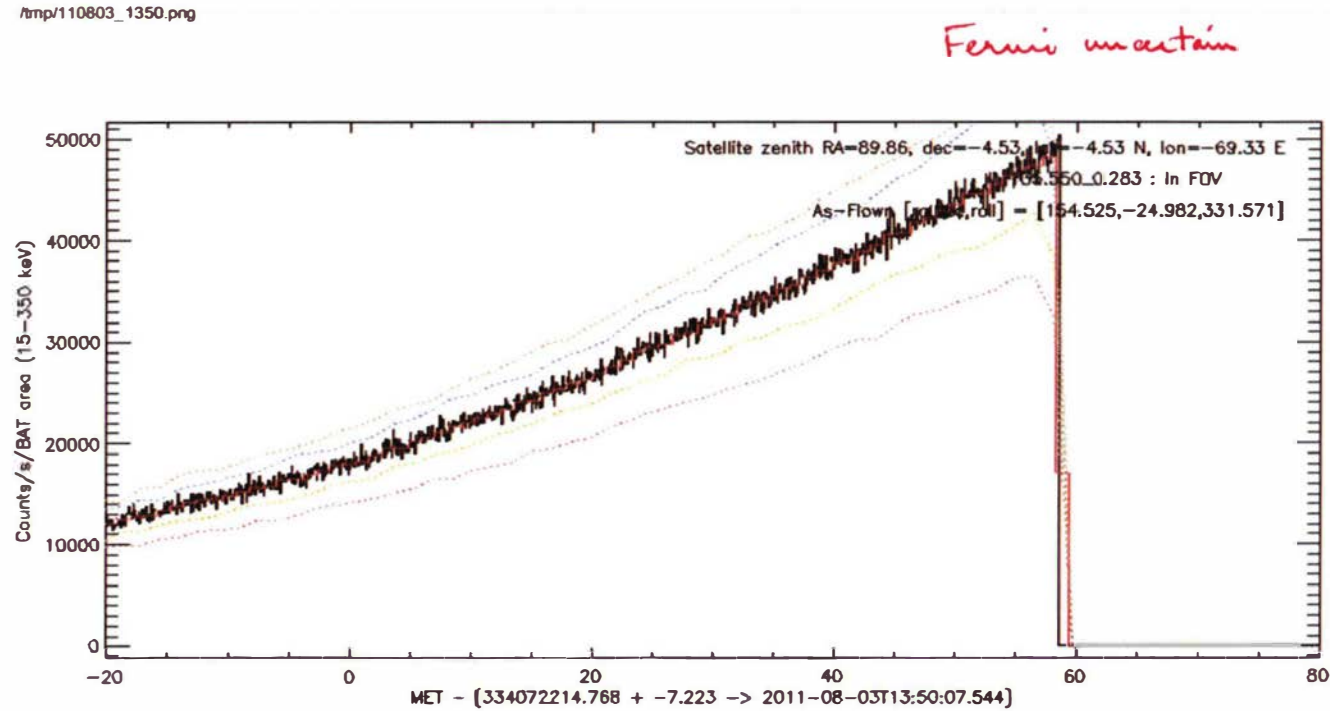
40-200 keV



Subject: [Ipn] BAT lightcurve for trigger at 110803_1350
From: palmer+automatic_lightcurve@lanl.gov
Date: Wed, 3 Aug 2011 10:01:46 -0600 (MDT)
To: gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/110803_1350.png



```
% /usr/local/bin/swinfo -o 334072214.767 -s 135.550_0.283
Time(MET + UTCF -> UT):      334072214.768 + -7.223 -> 2011-08-03T13:50:07.544
Swift Zenith(RA,dec):        89.86, -4.53
Swift Location(lon,lat,alt):  -69.33 E, -4.53 N, 594 km
Obs Sequence Number:         00074101020
Obs Target Name:              saa-cold-215-04
Obs Date and Times:           2011-08-03 13:48:54 - 14:01:50
Obs Pointing(ra,dec,roll):    154.525, -24.982, 331.57
135.550_0.283_imageloc (boresight_dist, angle): (31, -100)
135.550_0.283_exposure (cm^2 cos adjusted): 1934
135.550_0.283_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>

/tmp/110803_1350_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110803_1350.png

/tmp/110803_1350.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

Date: Mar 15 2013

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)? 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?

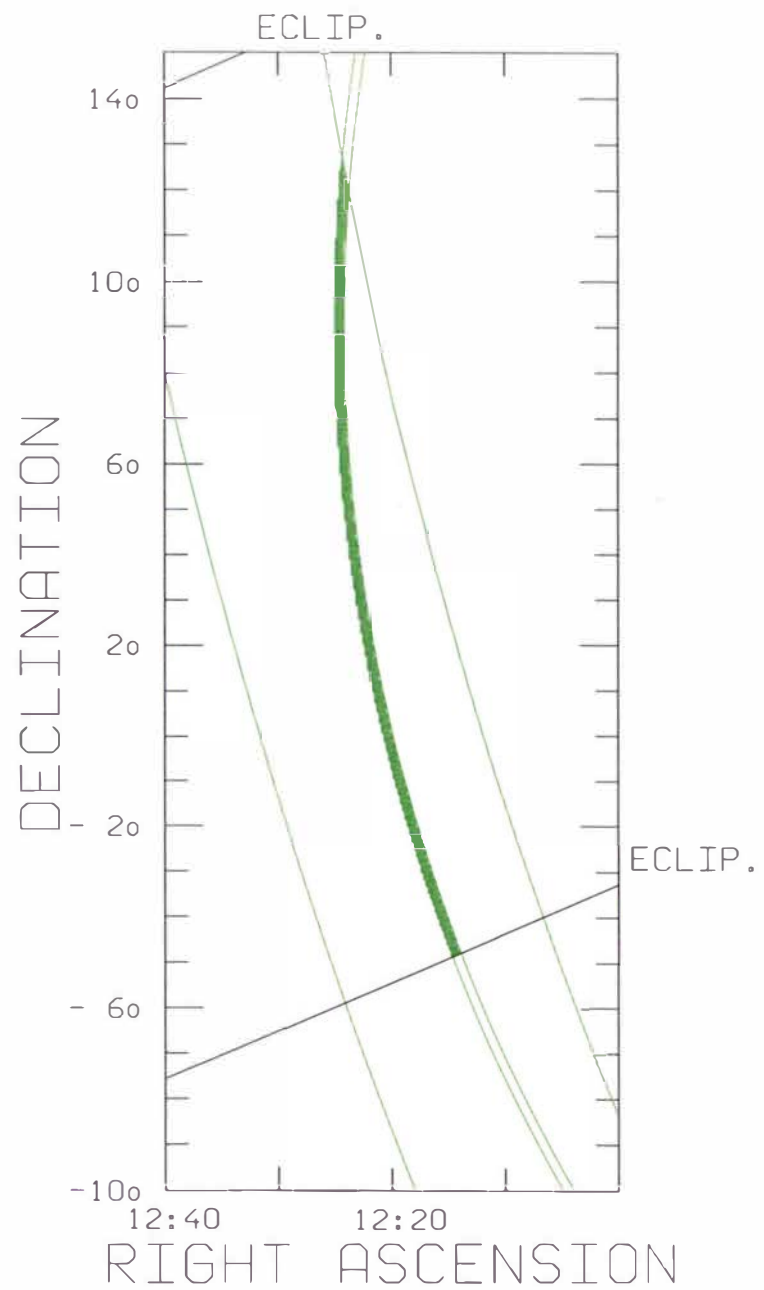
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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/spiaccs-online/spiaccs-ipnlc.pl>)

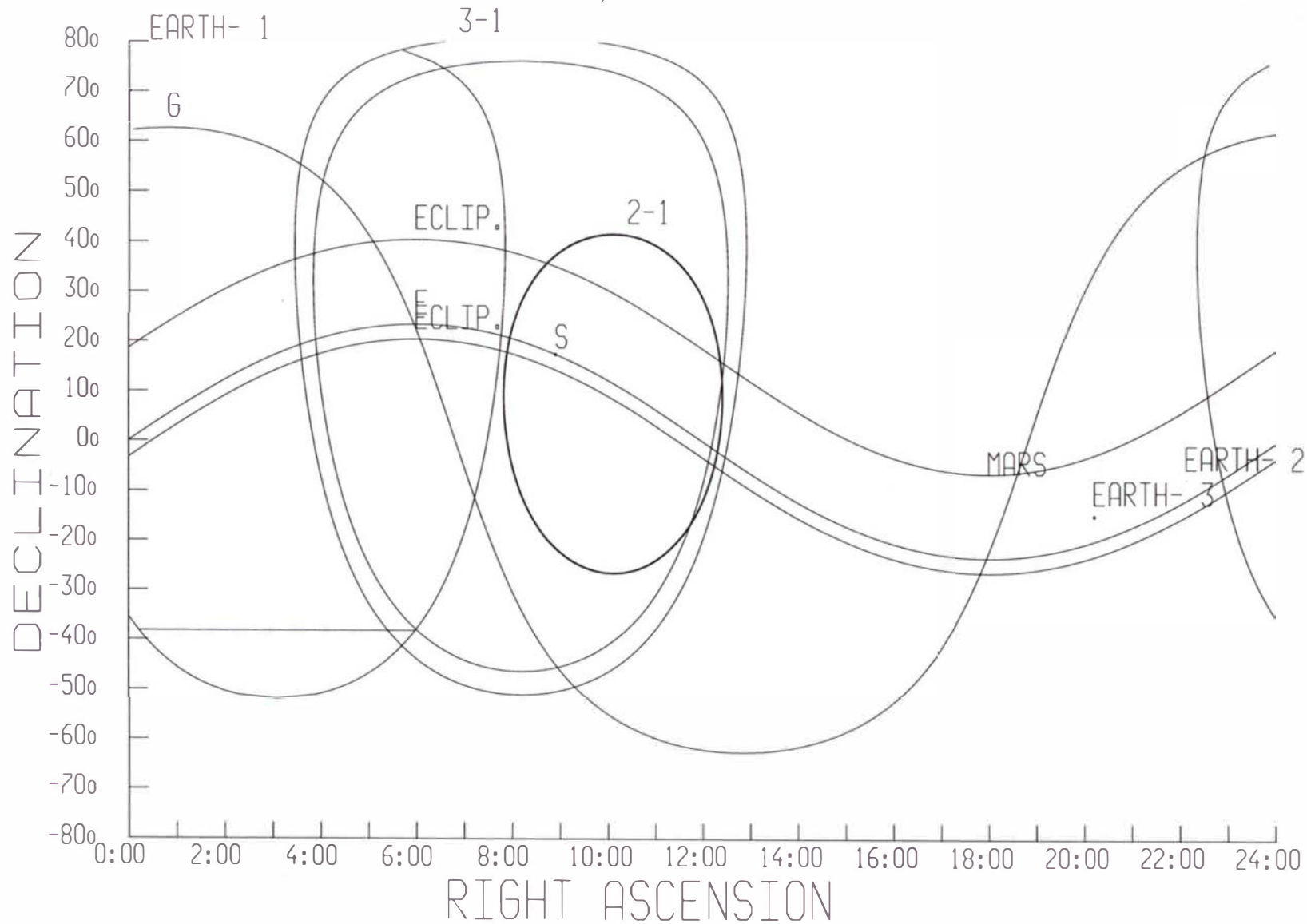
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

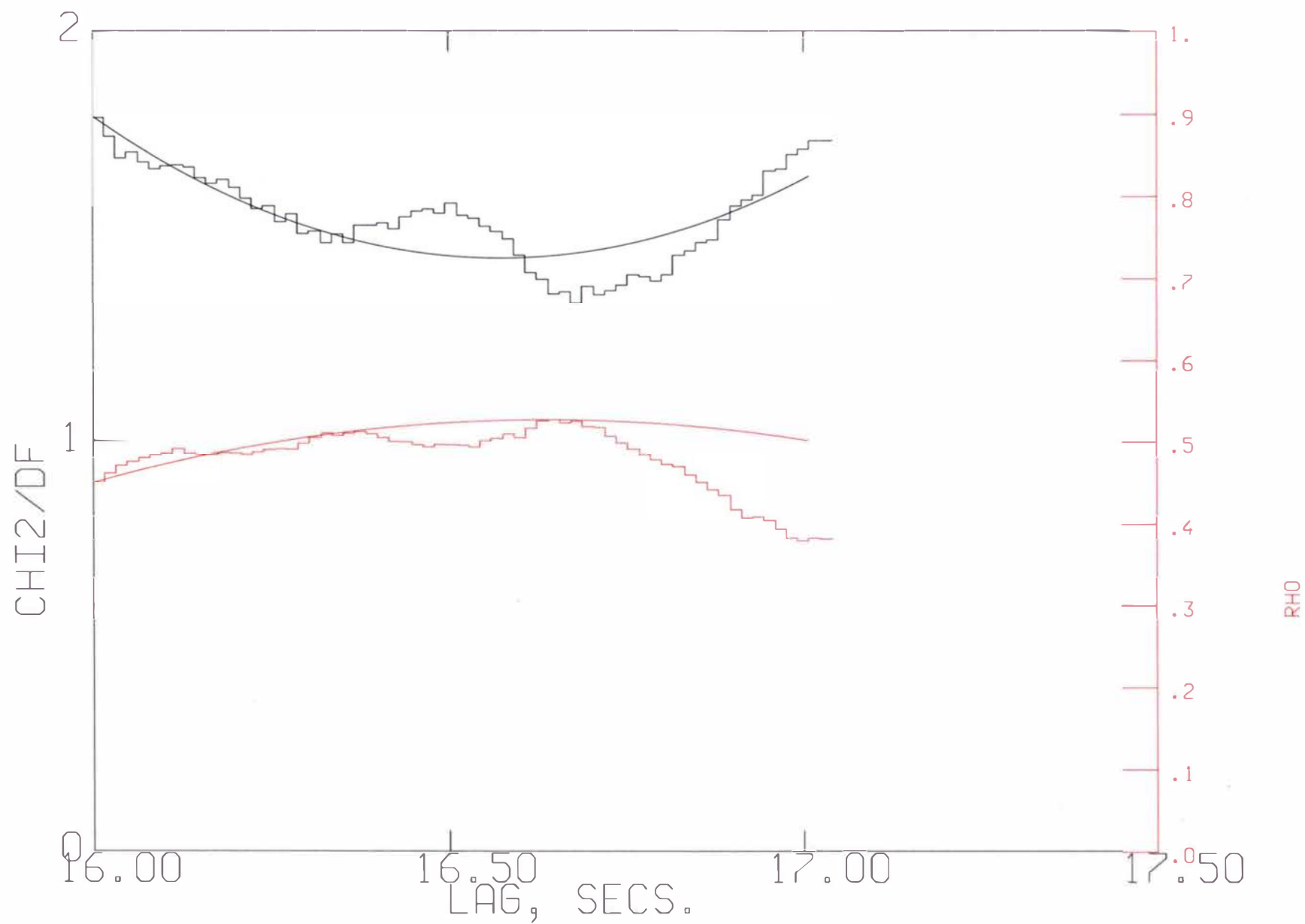


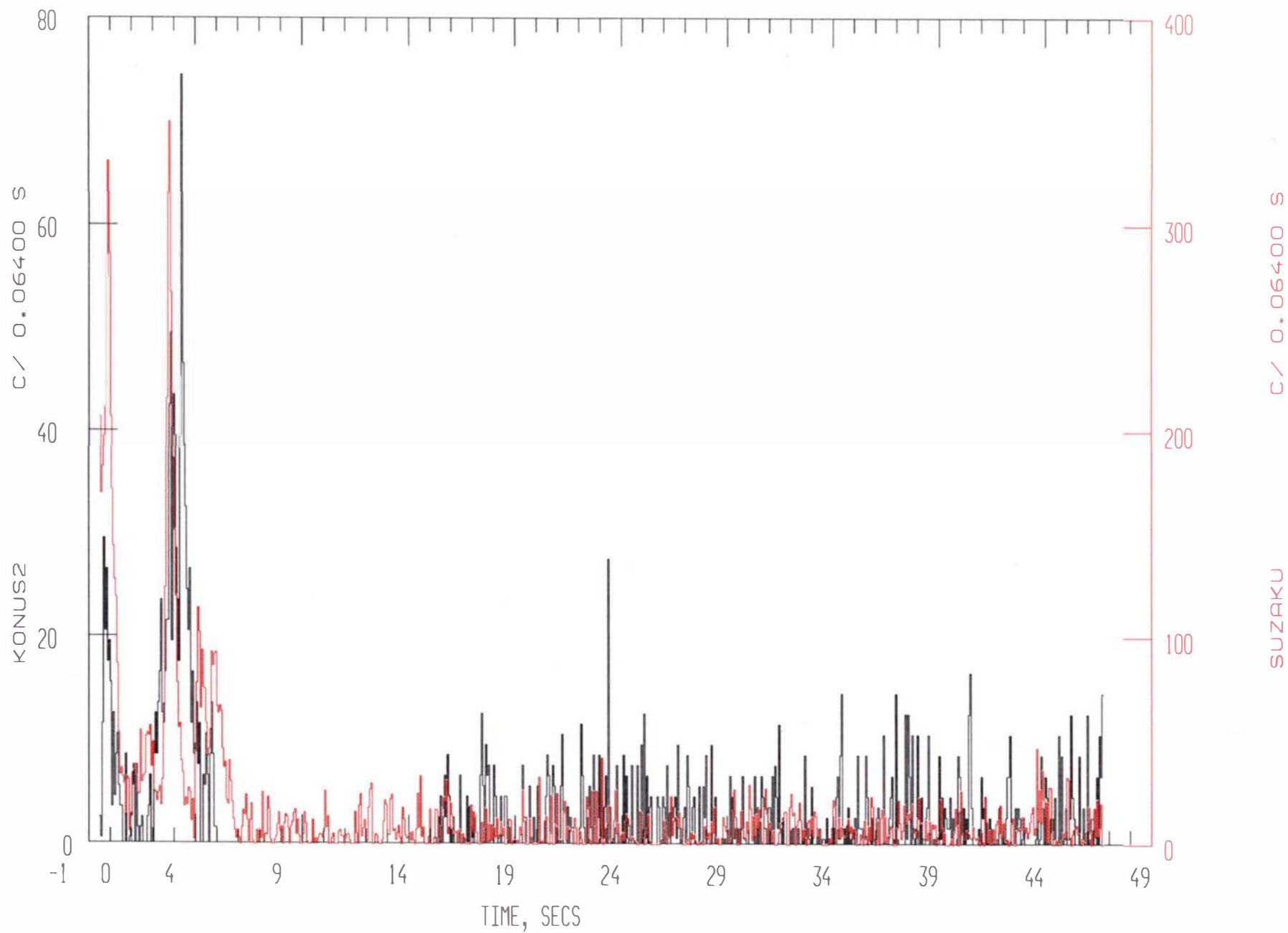
EVENT OF AUG 3, 2011 17:12

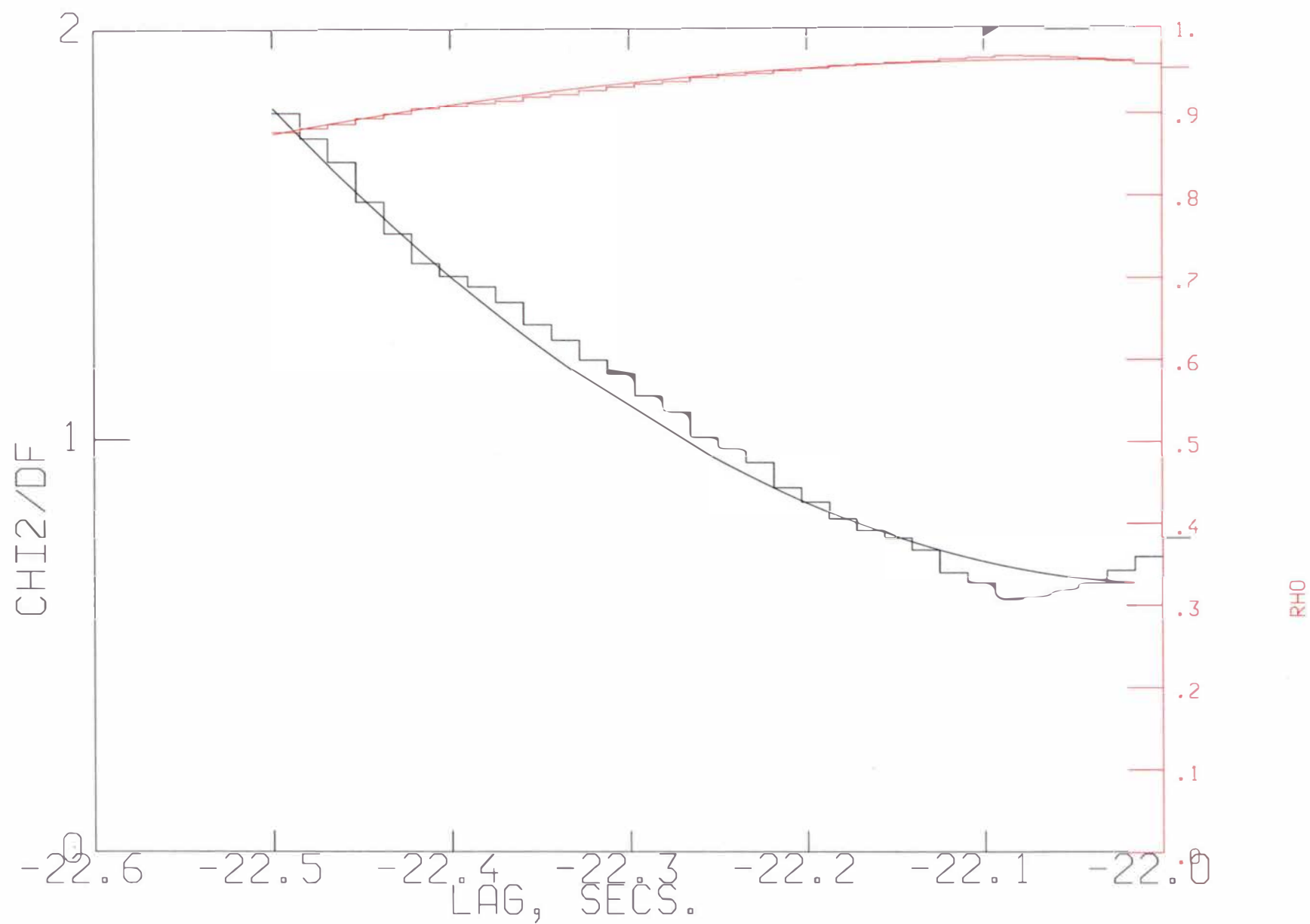
15/03/2013

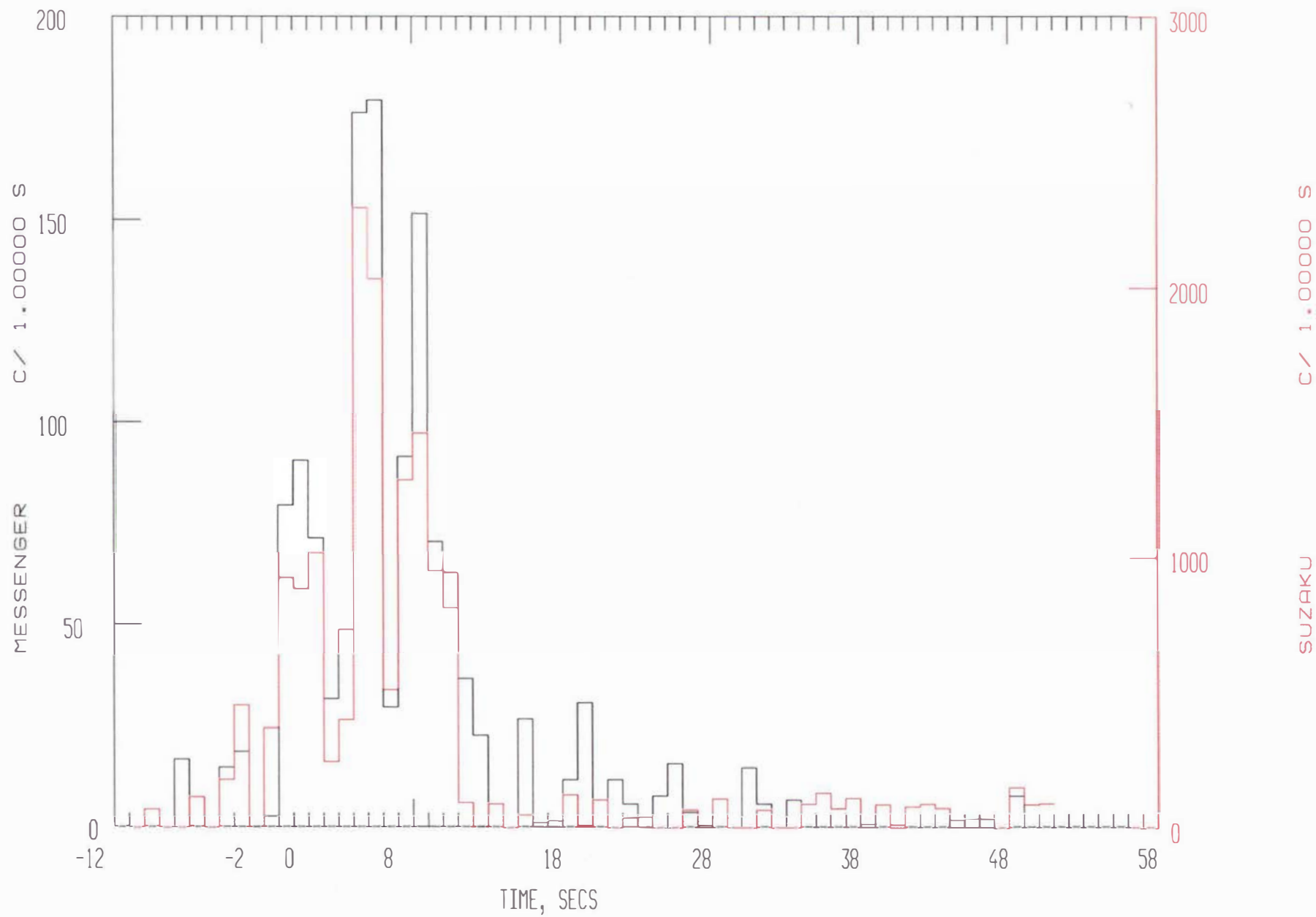
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN
 E=ECLIPTIC
 1 SUZAKU
 2 MESSENGER
 3 KONUS2











B

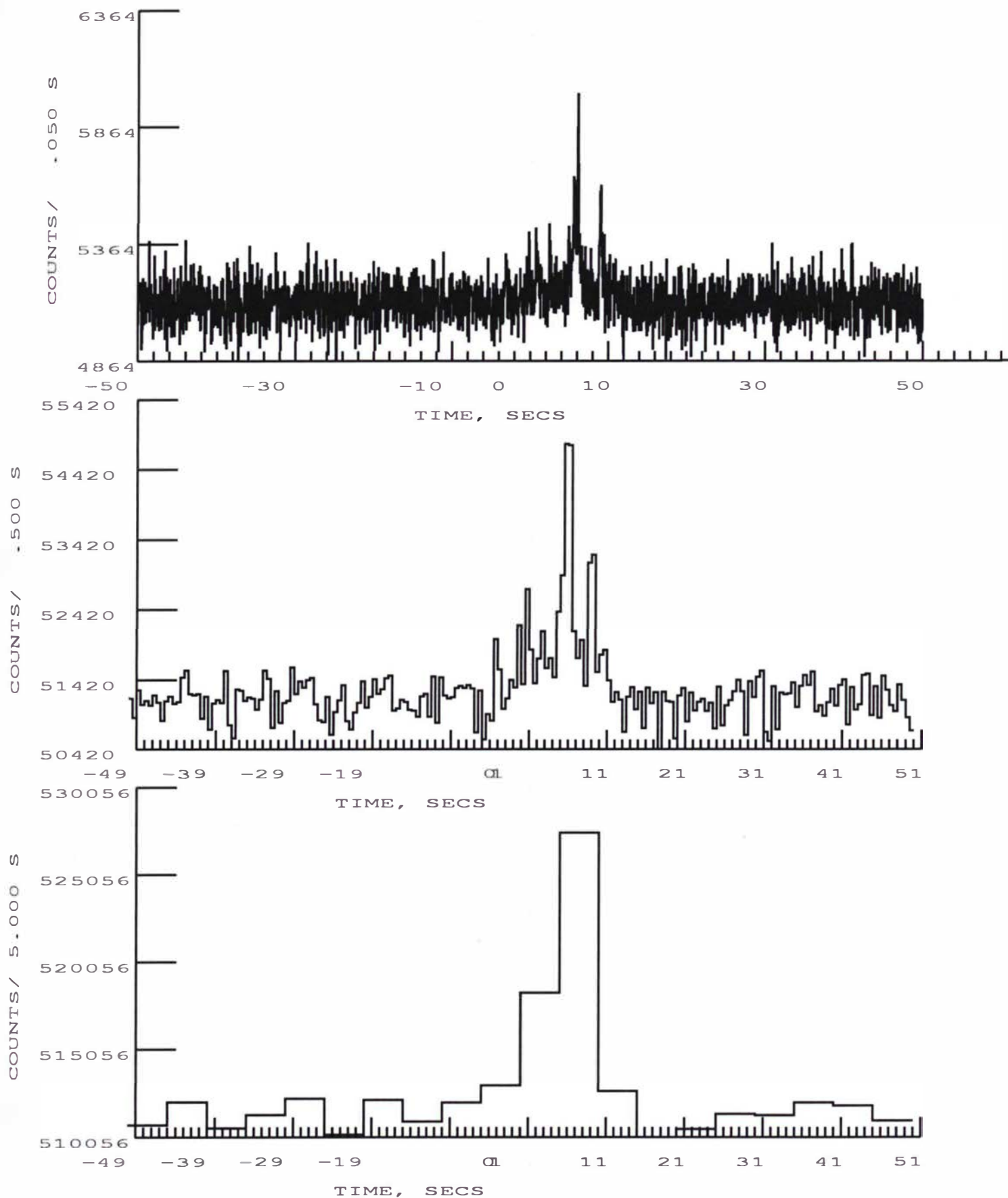
INTEGRAL

03/08/11

61946.000

17:12:26.0

20/01/14



KONUS2

03/08/11

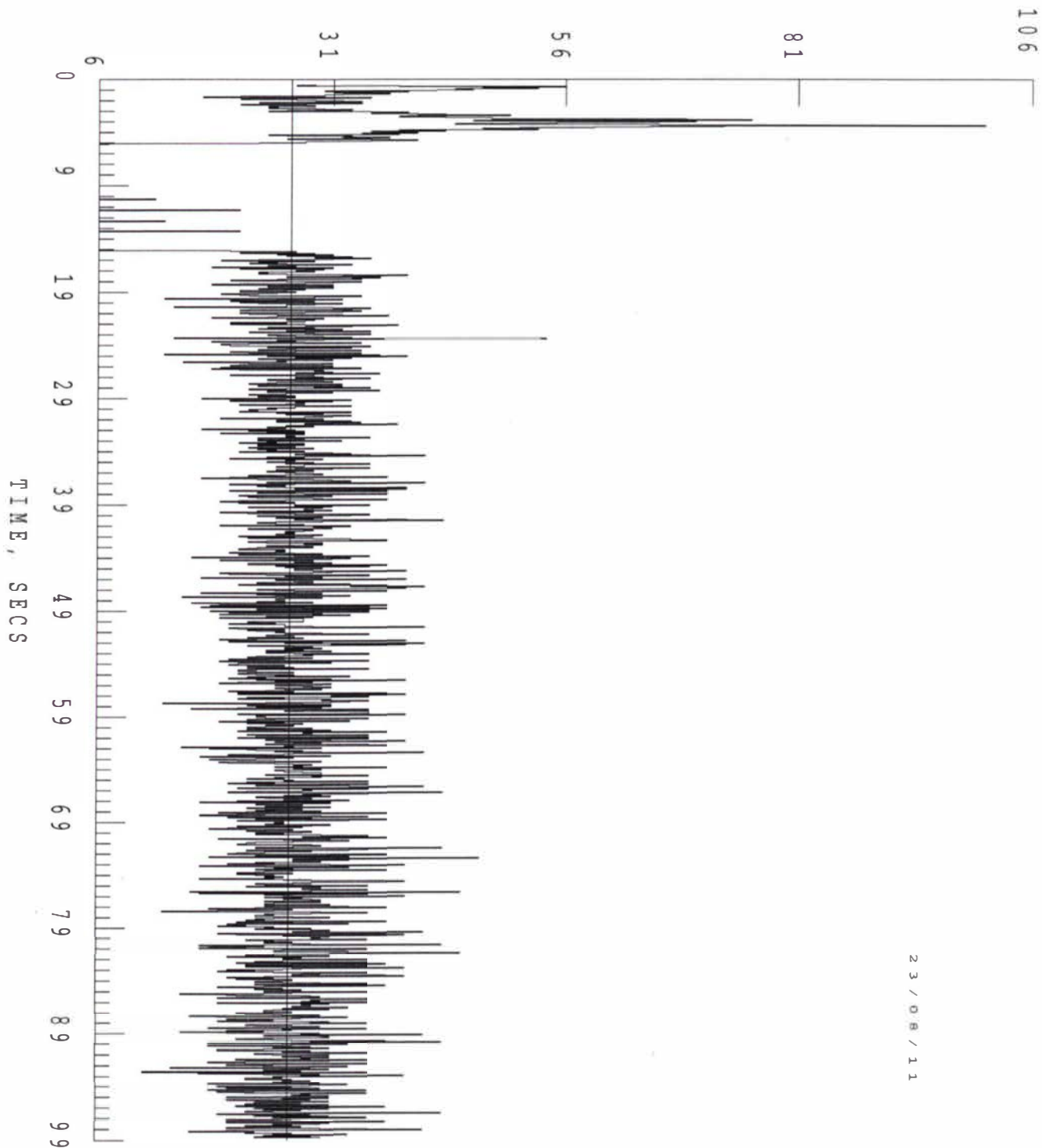
61946.466

17:12:26

B

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110803 61945

TRIGGER TIME: 03/08/11 DOY 215 Julian 2455778.21697 UT = 17.207 17:12:25 (61946.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

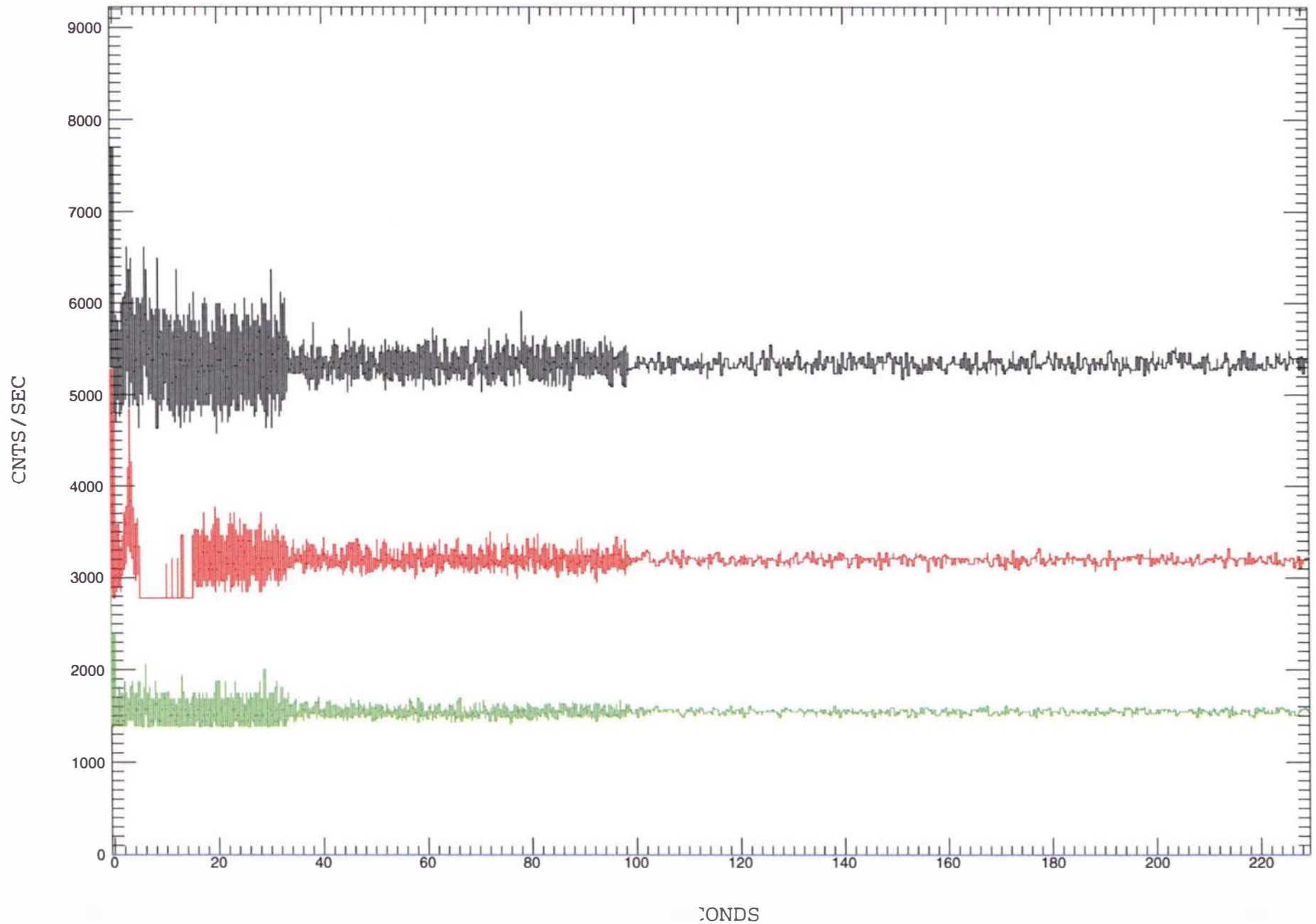
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



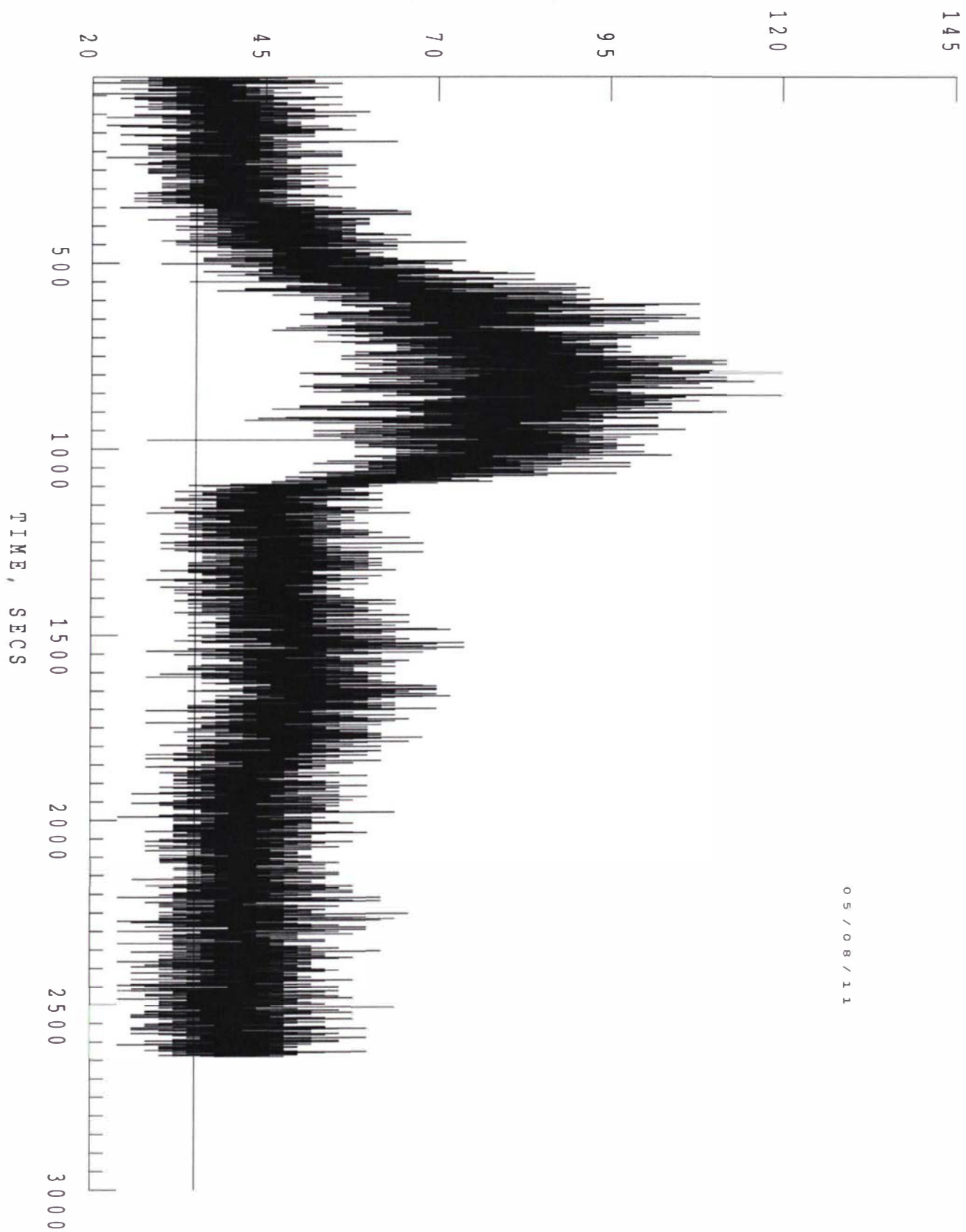
MS01

03/08/11

60630.368

50 - 3000 keV

COUNTS/0.250 S



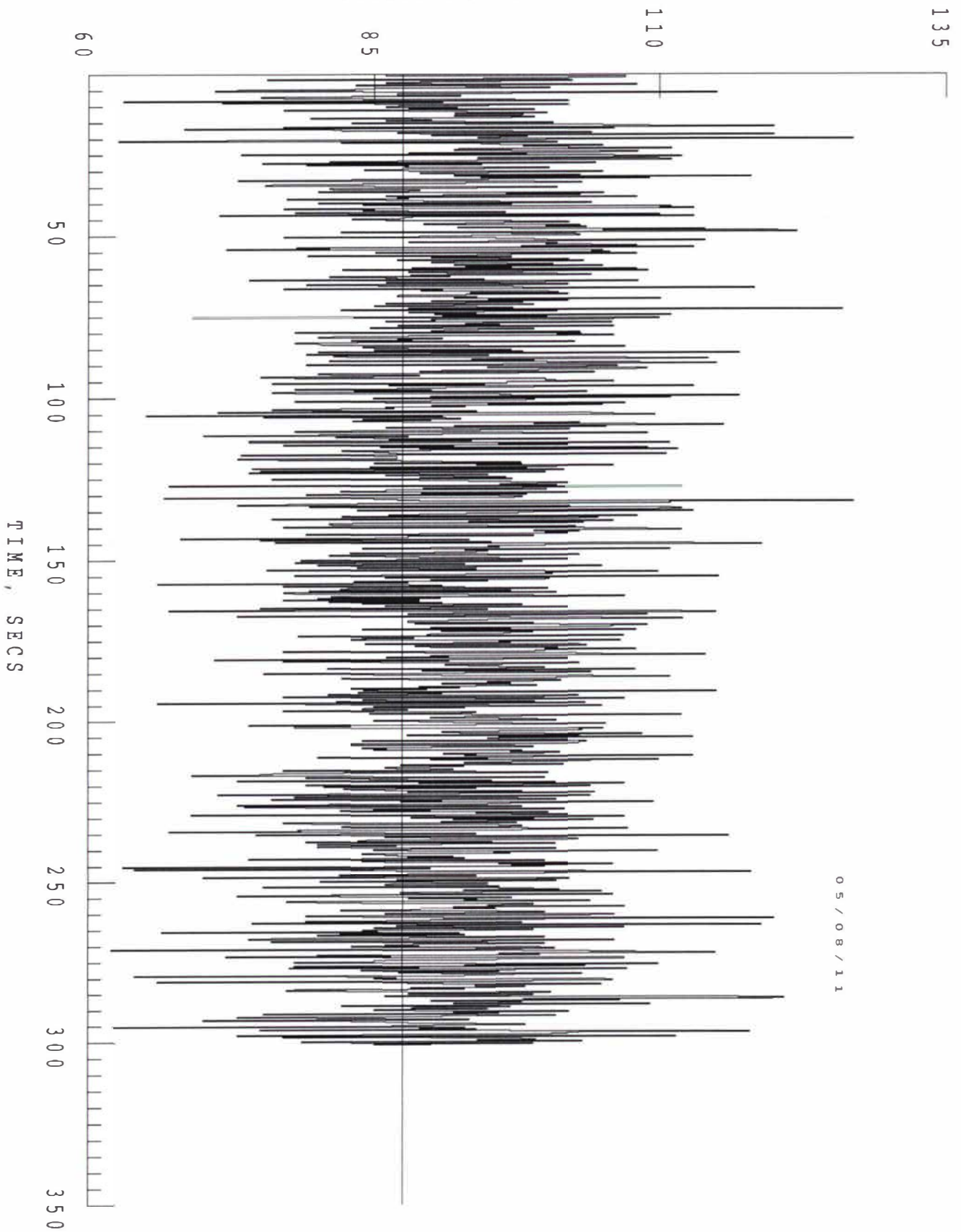
HESSI

03/08/11 61795.000 (KONUS2_20110803_61946)

B

25- 150 keV

COUNTS/0.250 S



B

28/09/11

MESSENGER

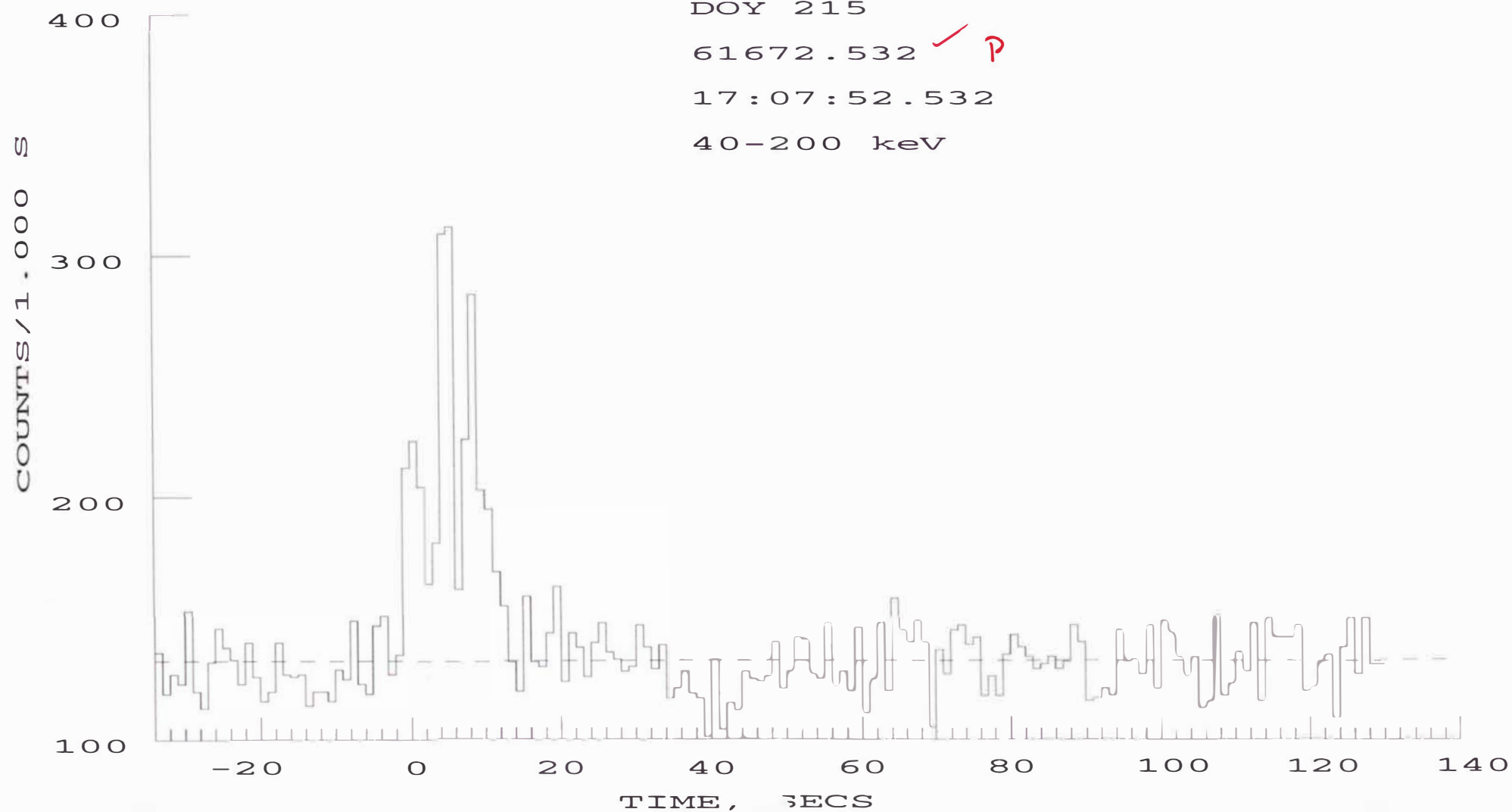
03/08/11

DOY 215

61672.532 ✓ P

17:07:52.532

40-200 keV



SUZAKU

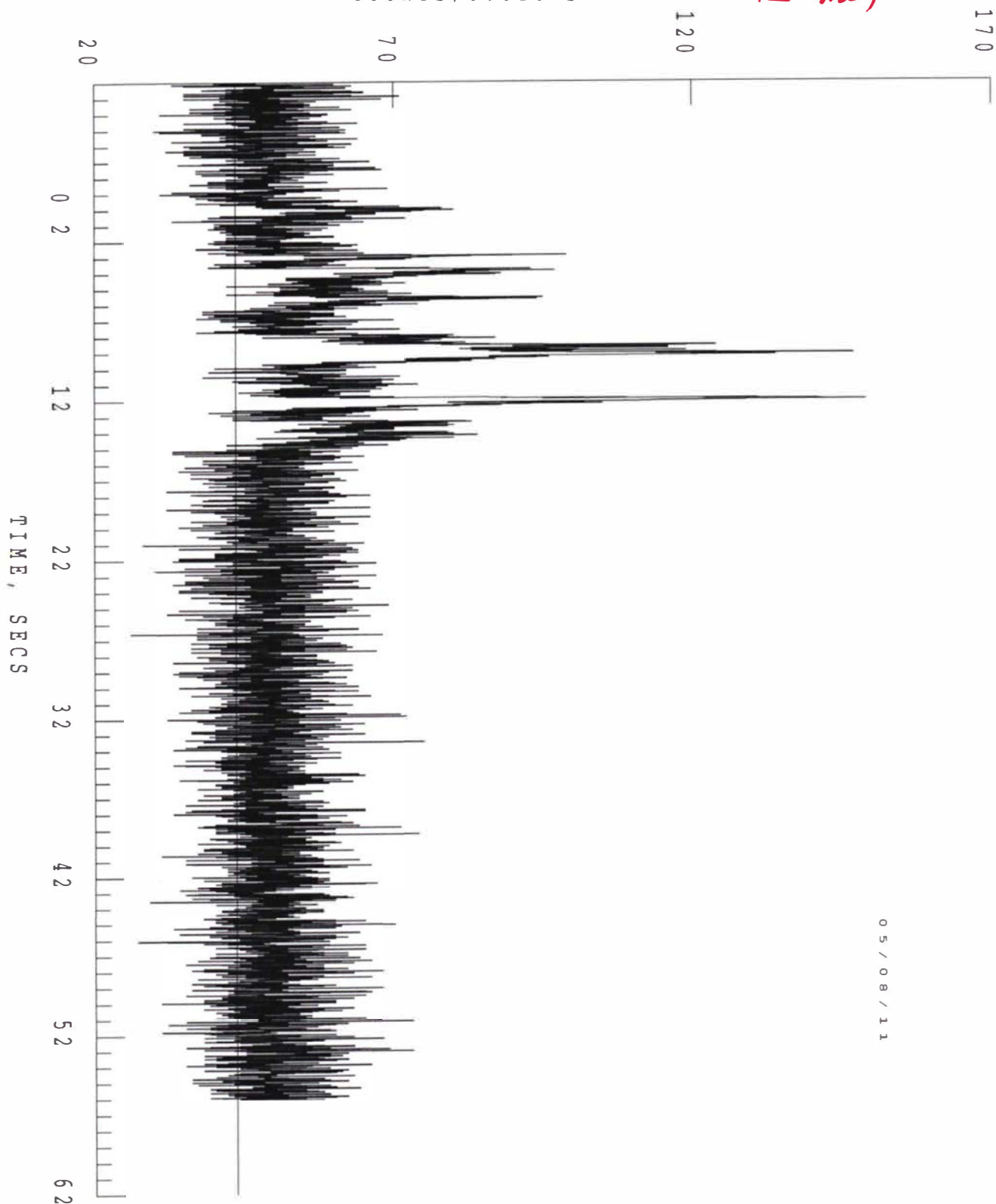
03/08/11

61942.674

50 - 240 keV

COUNTS/0.016 S

B
Same as burst on the 2nd!
(time was wrong. it is on
the 3rd)



B e

From yamaoka@phys.aoyama.ac.jp Wed Aug 10 23:25:35 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Thu, 11 Aug 2011 15:24:50 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: Kevin Hurley <khurley@ssl.berkeley.edu>
Cc: yamaoka@phys.aoyama.ac.jp, val@mail.ioffe.ru, ohno@astro.isas.jaxa.jp
Subject: Re: GRB110802 62658 Suzaku Ephemeris : ae20110803_0543_0544 BST01
X-Ucb-Scan-Signature: 2817f6b5c07ddcbd5e149e254fa85d90ac6148d0
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Kevin,

We sent two bursts which have the date of August 2: 55157 s and 62658 s.
The former one is a possible short-duration burst which has a correct time assi
the latter one has an incorrect time and occurred at 61942.674 s on August 3.

Best wishes,
Kazu

On Mon, 8 Aug 2011 10:00:34 -0700 (PDT)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear Kazu,
>
> Sorry, but I don't understand. All the files that I received for
> August 2 seem to have the same time and the same ephemeris. Do you
> mean that this burst occurred at 61942.674 s on August 3?

>
> Kevin

>
> > From yamaoka@phys.aoyama.ac.jp Fri Aug 5 10:36:26 2011
> > X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
> > Date: Sat, 6 Aug 2011 02:35:55 +0900
> > From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
> > To: khurley@ssl.berkeley.edu, val@mail.ioffe.ru
> > Cc: ohno@astro.isas.jaxa.jp, yamaoka@phys.aoyama.ac.jp
> > Subject: Re: GRB110802 62658 Suzaku Ephemeris : ae20110803_0543_0544 BST01
> > X-Ucb-Scan-Signature: 59424102c55615fe8bb21b93a9e4e3b7a514cb34
> > X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.931'
> > X-Ucb-Notice: This message has been processed by a spam tagging system.

> >
> > Hi Kevin and Valentin,

> >
> > This one has a wrong time.
> > I have just sent you the correct data.
> > Sorry for the inconvenience.

> >
> > Best wishes,
> > Kazu

> >
> > On Thu, 4 Aug 2011 05:58:11 +0000 (UTC)
> > aetouban@astro.isas.jaxa.jp (Astro-E2 USC Duty Scientist) wrote:

> > > 6941.549 260.52 -25.99

> > >
> >

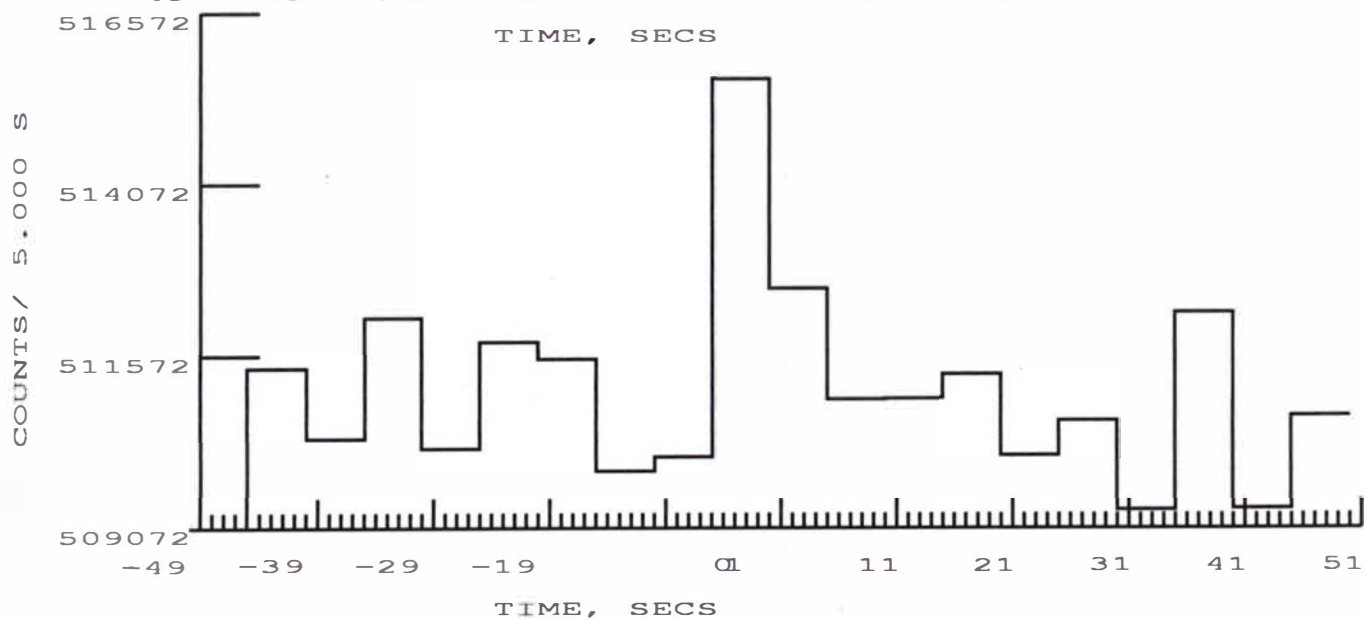
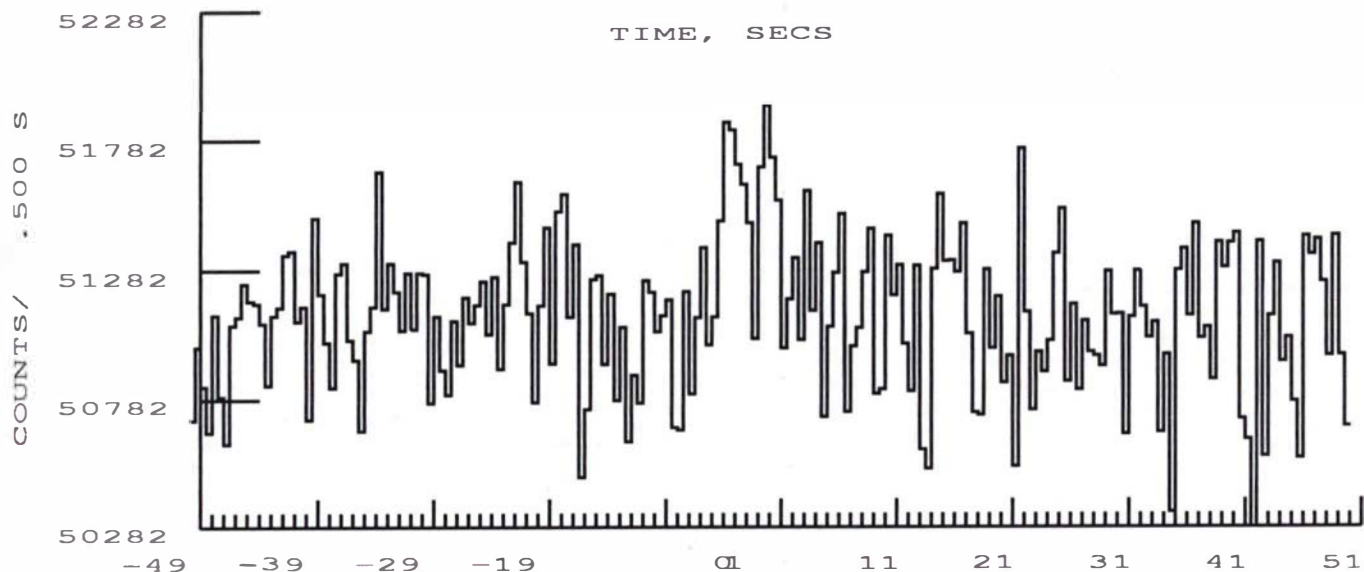
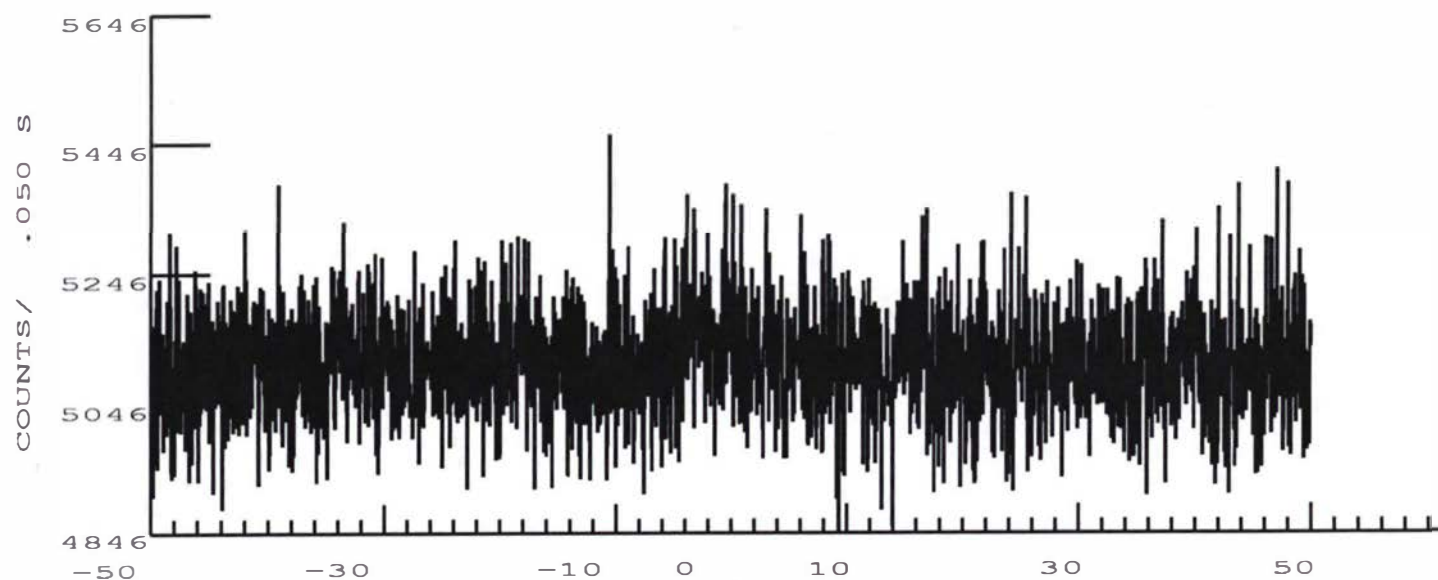
INTEGRAL

03/08/11

67645.000

18:47:25.0

20/01/14



GLAST

03/08/11

67645.428

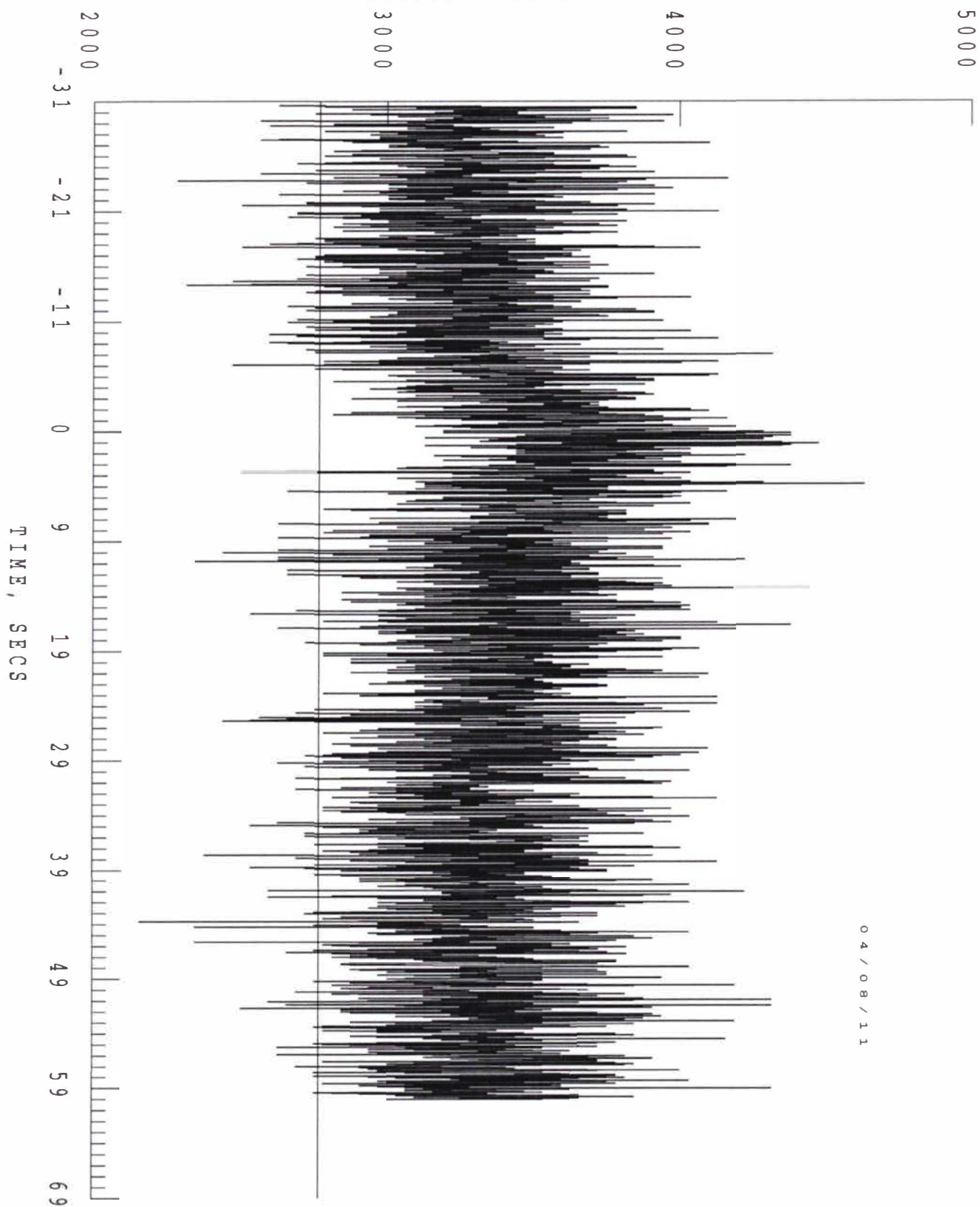
18:47:25

C884

26 - 293 keV

300.42, -10.56, 7.49

COUNTS/0.032 S



MS01

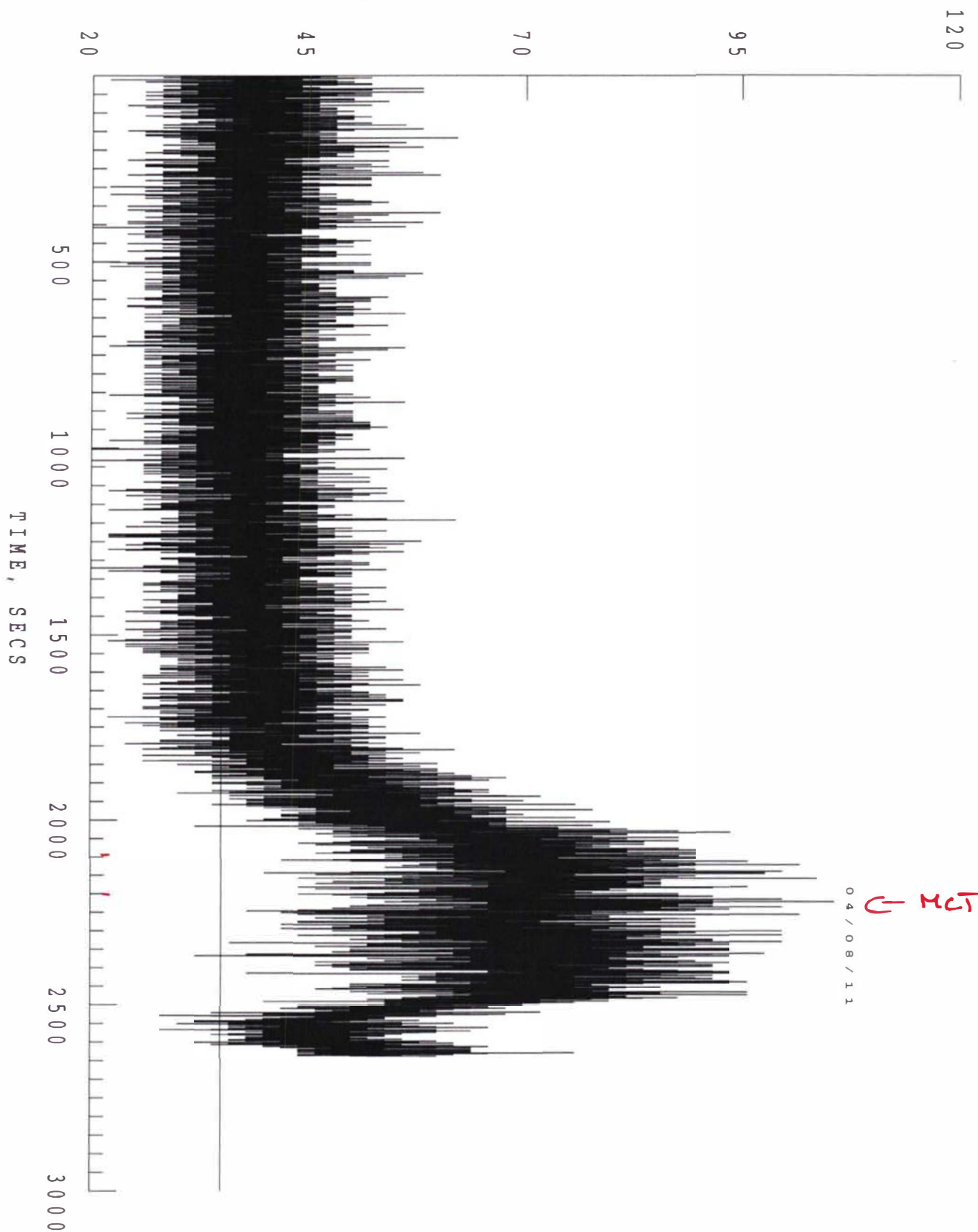
03/08/11

66330.277

C 易 易 易

50 - 3000 keV

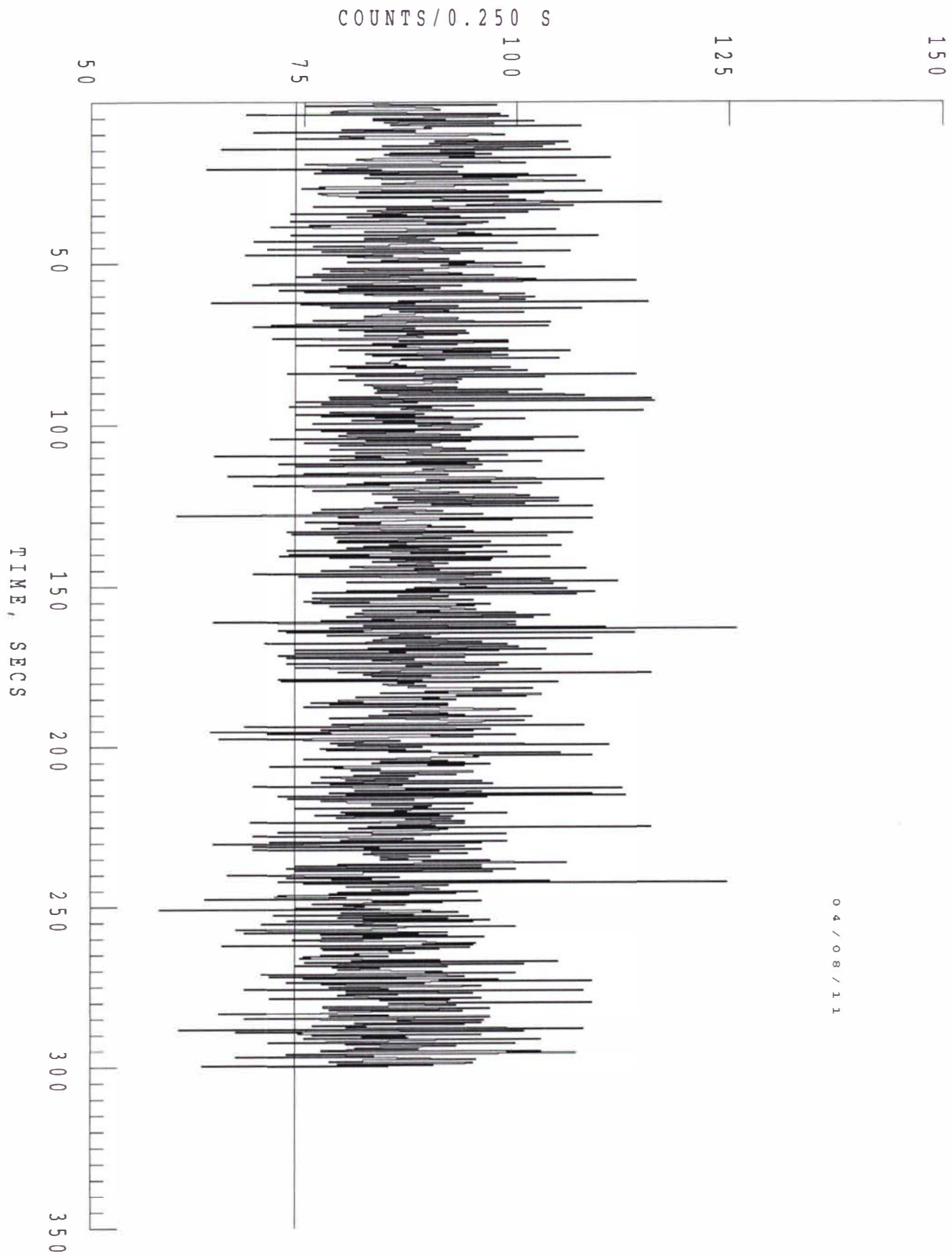
COUNTS/0.250 S



HESSI

03/08/11 67495.000 (GLAST_20110803_67645) *CB BE*

25- 150 keV



C 多 多 多

Subject: [Ipn] BAT lightcurve for trigger at 110803_1847

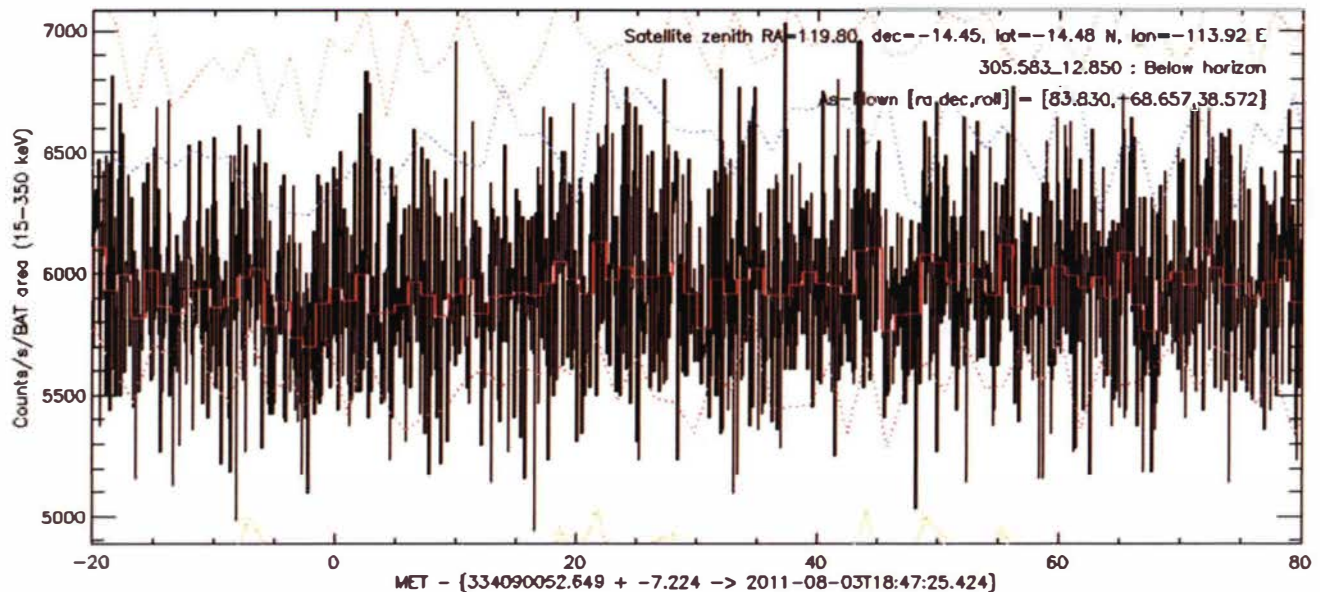
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 3 Aug 2011 14:46:40 -0600 (MDT)

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

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

/tmp/110803_1847.png



```
% /usr/local/bin/swinfo -o 334090052.649 -s 311.250_15.350
Time(MET + UTCF -> UT): 334090052.649 + -7.224 -> 2011-08-03T18:47:25.423
Swift Zenith(RA,dec): 119.80, -14.45
Swift Location(lon,lat,alt): -113.92 E, -14.48 N, 592 km
Obs Sequence Number: 00045566001
Obs Target Name: LMC_Survey_145
Obs Date and Times: 2011-08-03 18:38:54 - 18:53:50
Obs Pointing(ra,dec,roll): 83.830, -68.657, 38.57
311.250_15.350_imageloc (boresight_dist, angle): (119, 106)
311.250_15.350_exposure (cm^2 cos adjusted): 0
311.250_15.350_altitude: -55 (down)

% /usr/local/bin/swinfo -o 334090052.649 -s 305.583_12.850
Time(MET + UTCF -> UT): 334090052.649 + -7.224 -> 2011-08-03T18:47:25.424
Swift Zenith(RA,dec): 119.80, -14.45
Swift Location(lon,lat,alt): -113.92 E, -14.48 N, 592 km
Obs Sequence Number: 00045566001
Obs Target Name: LMC_Survey_145
Obs Date and Times: 2011-08-03 18:38:54 - 18:53:50
Obs Pointing(ra,dec,roll): 83.830, -68.657, 38.57
305.583_12.850_imageloc (boresight_dist, angle): (118, 99)
305.583_12.850_exposure (cm^2 cos adjusted): 0
305.583_12.850_altitude: -60 (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>

/tmp/110803_1847.png Content-Type: image/png

Content-Encoding: base64

/tmp/110803_1847_bat64ms_ipn

/tmp/110803_1847_bat64ms_ipn
Content-Type: application/octet-stream
Content-Encoding: base64

Part 1.4

Part 1.4
Content-Type: text/plain
Content-Encoding: 7bit

Part 1.5

Part 1.5
Content-Type: text/plain
Content-Encoding: 7bit

28/09/11

MESSENGER

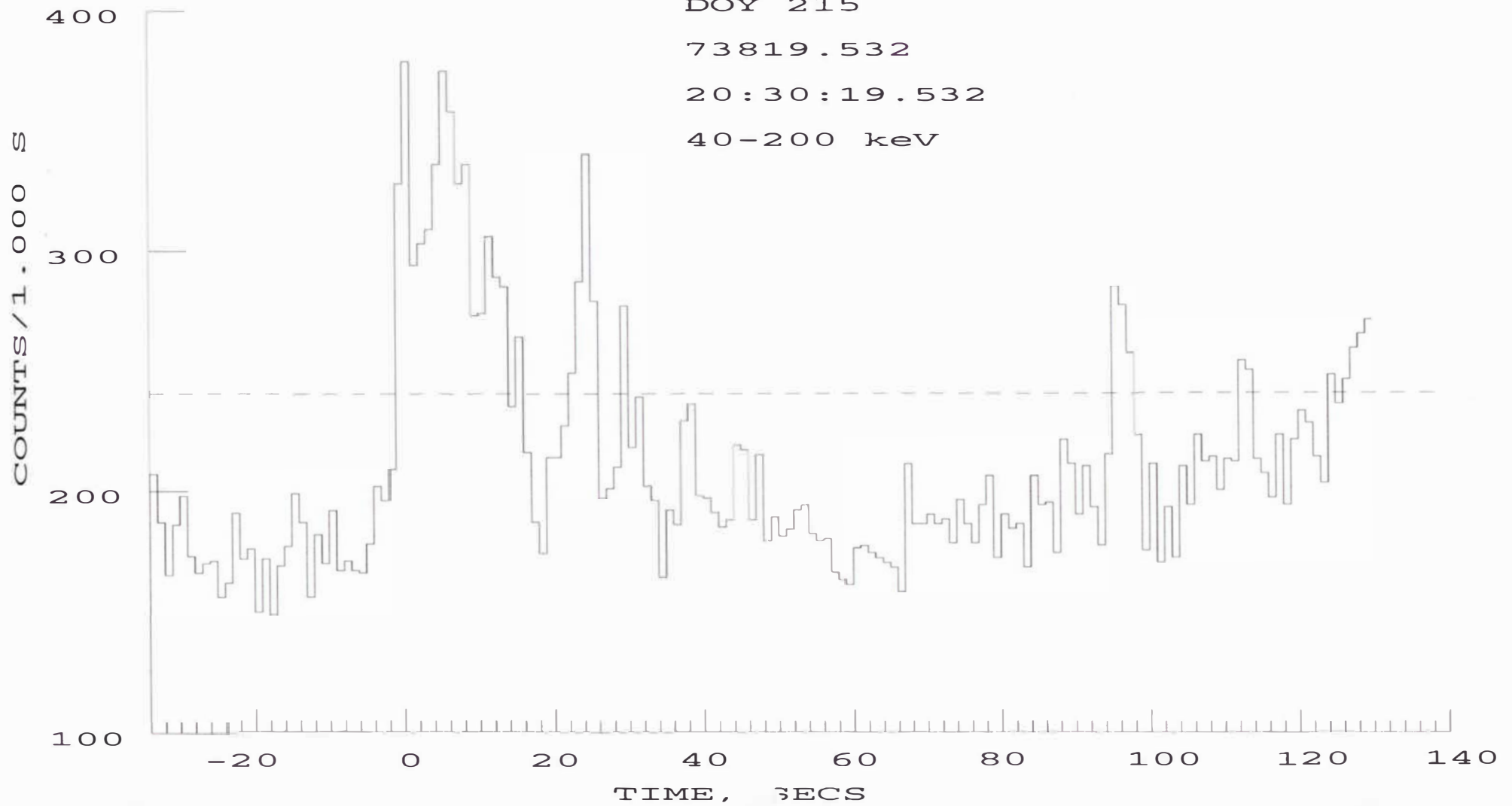
03/08/11

DOY 215

73819.532

20:30:19.532

40-200 keV



28/09/11

MESSENGER

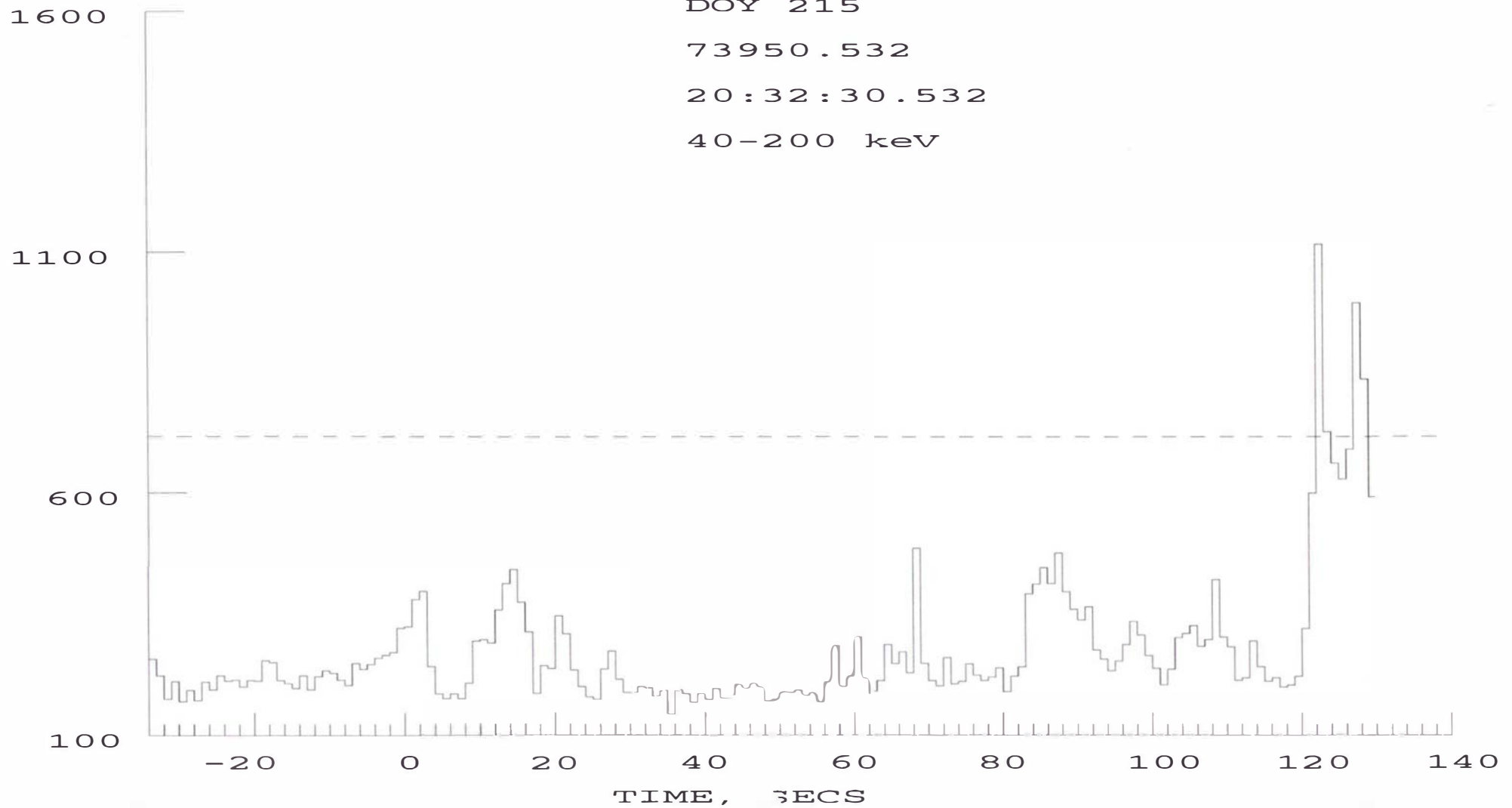
03/08/11

DOY 215

73950.532

20:32:30.532

40-200 keV



28/09/11

MESSENGER

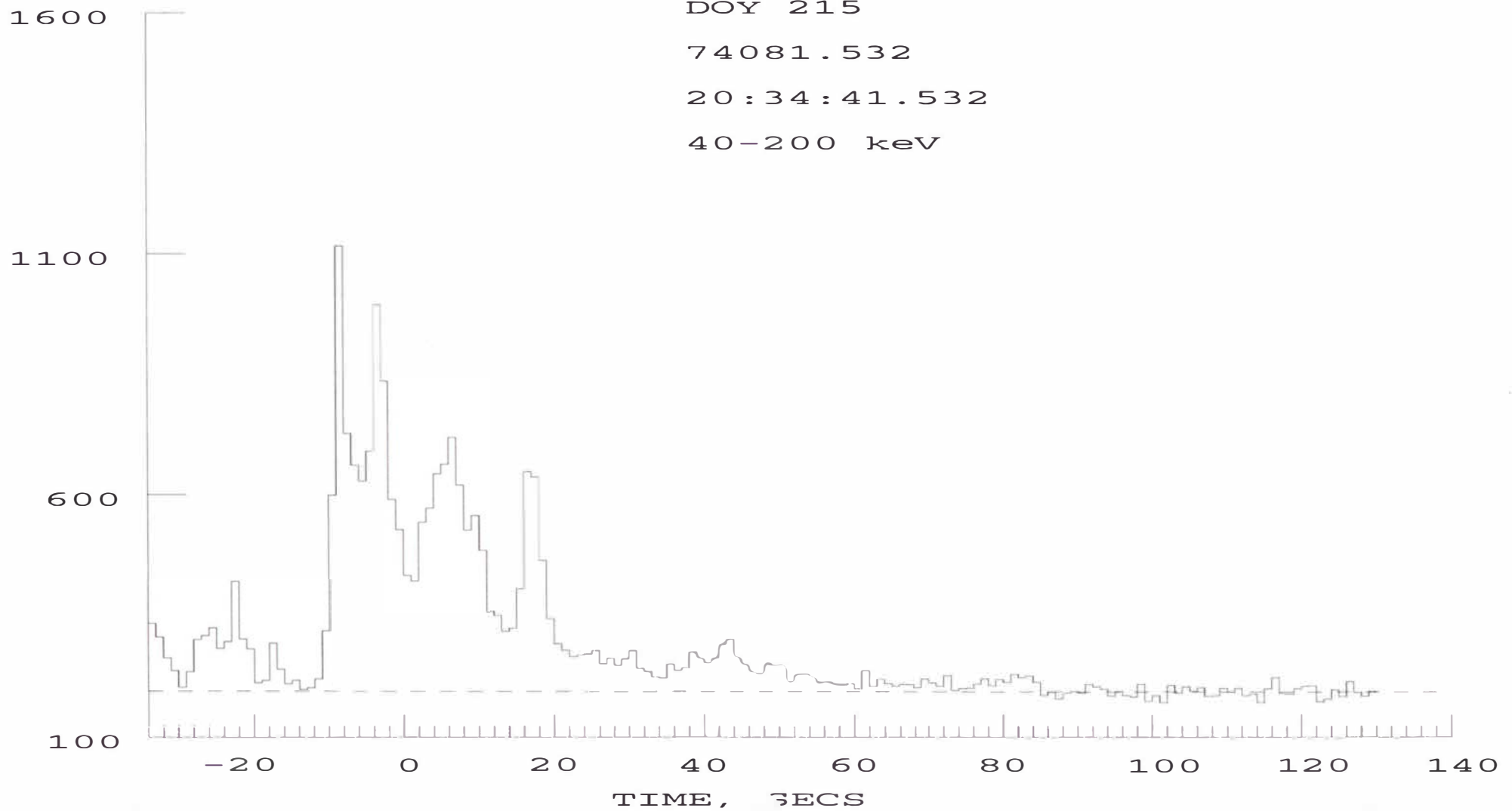
03/08/11

DOY 215

74081.532

20:34:41.532

40-200 keV



28/09/11

MESSENGER

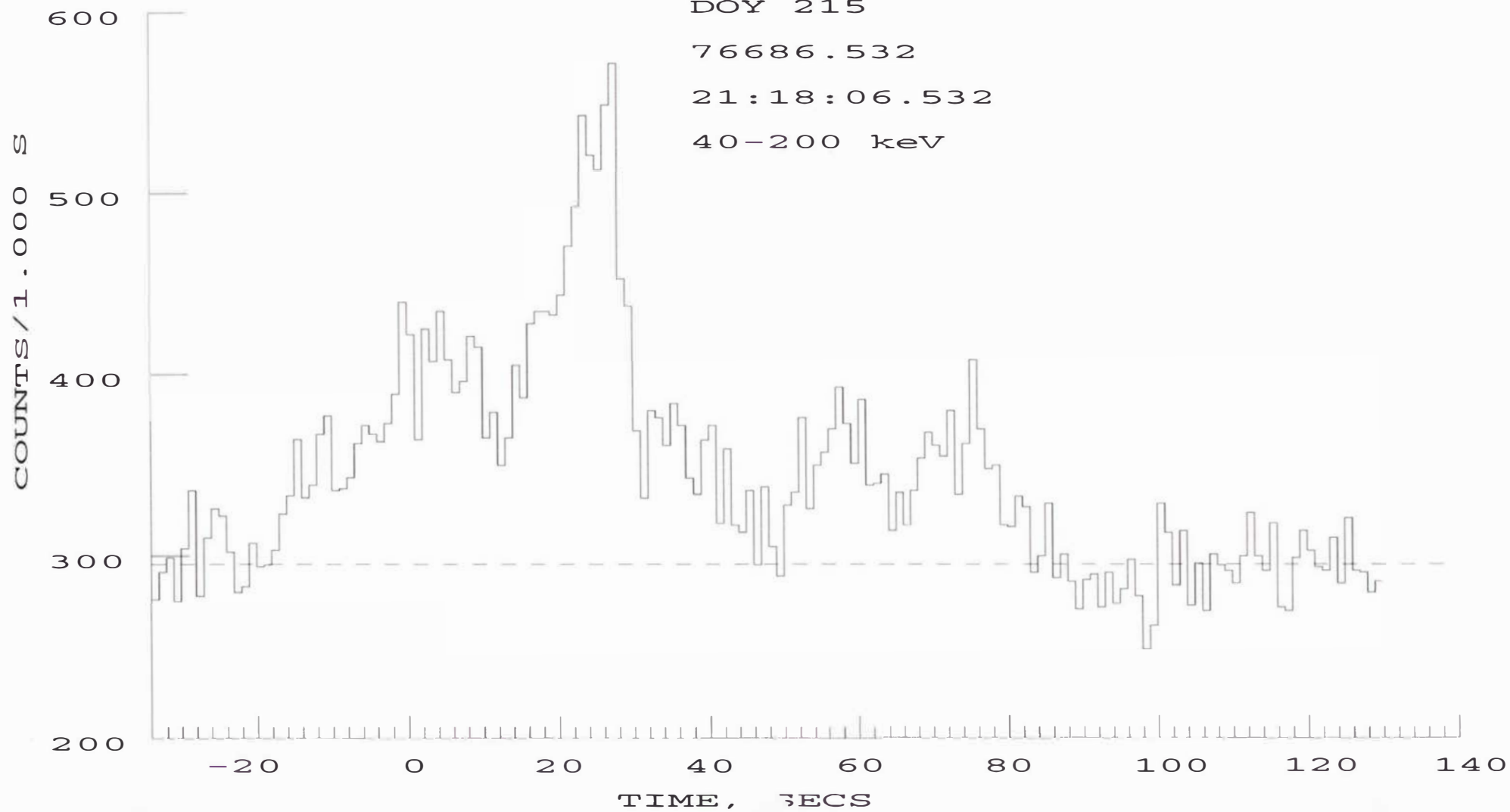
03/08/11

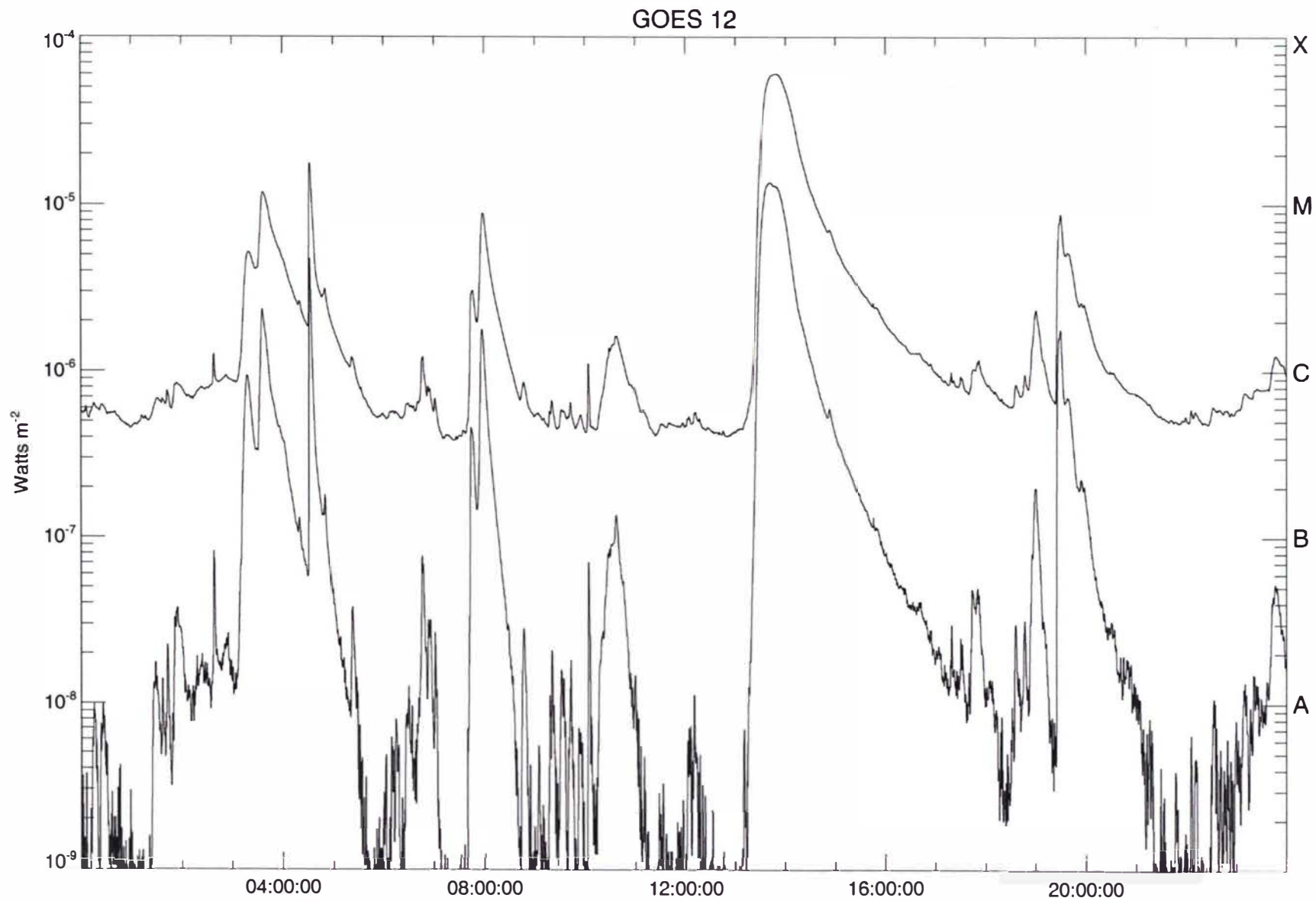
DOY 215

76686.532

21:18:06.532

40-200 keV





Data Start: 11/08/03, 0000:09

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 11/08/06, 0833

Sample average = 10

KONUS2

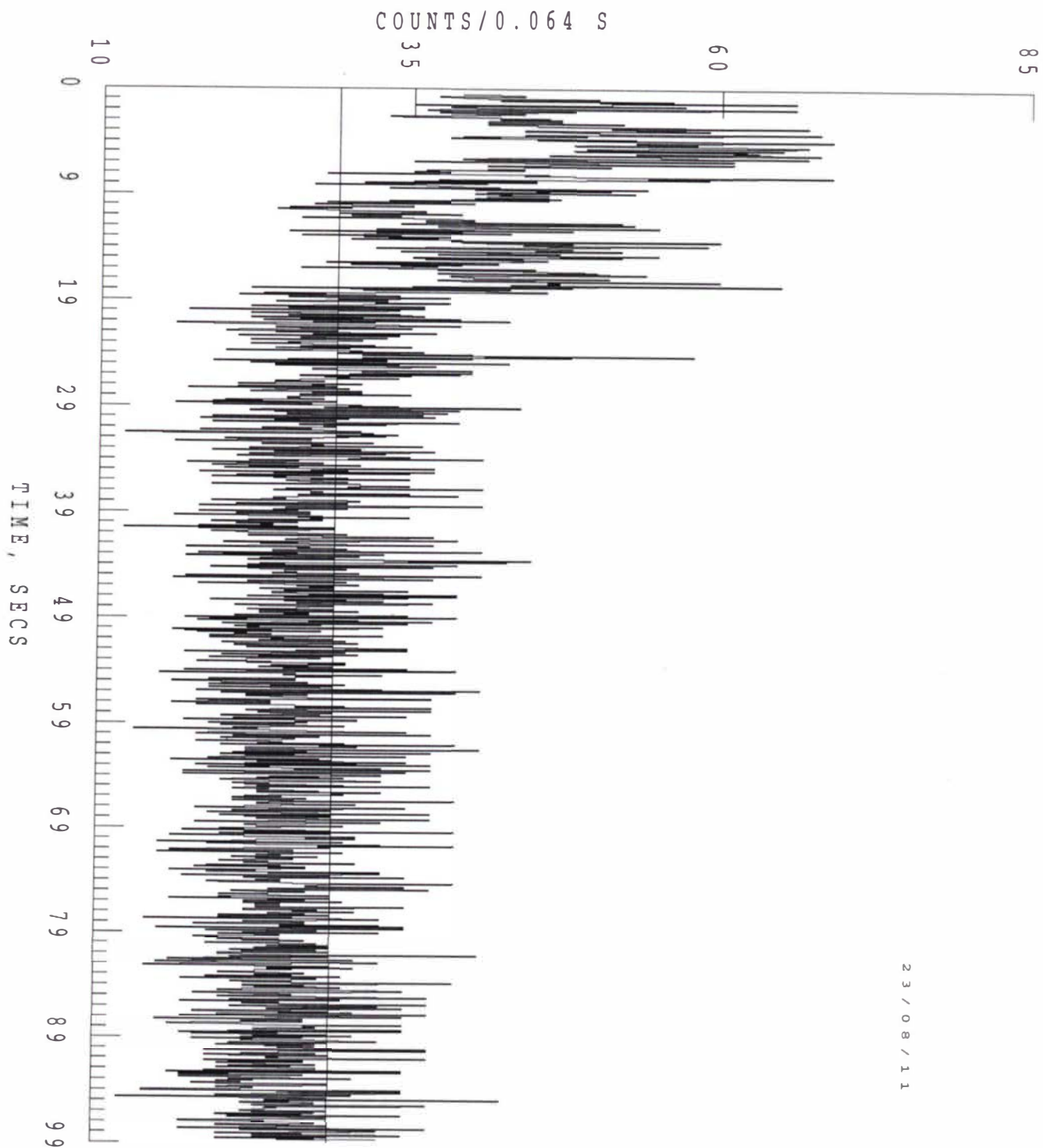
04/08/11

13523.117

A

50- 200 keV

Solar



A

KONUS HRES 20110804 13523

TRIGGER TIME: 04/08/11 DOY 216 Julian 2455778.65652 UT = 03.756 03:45:23 (13523.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

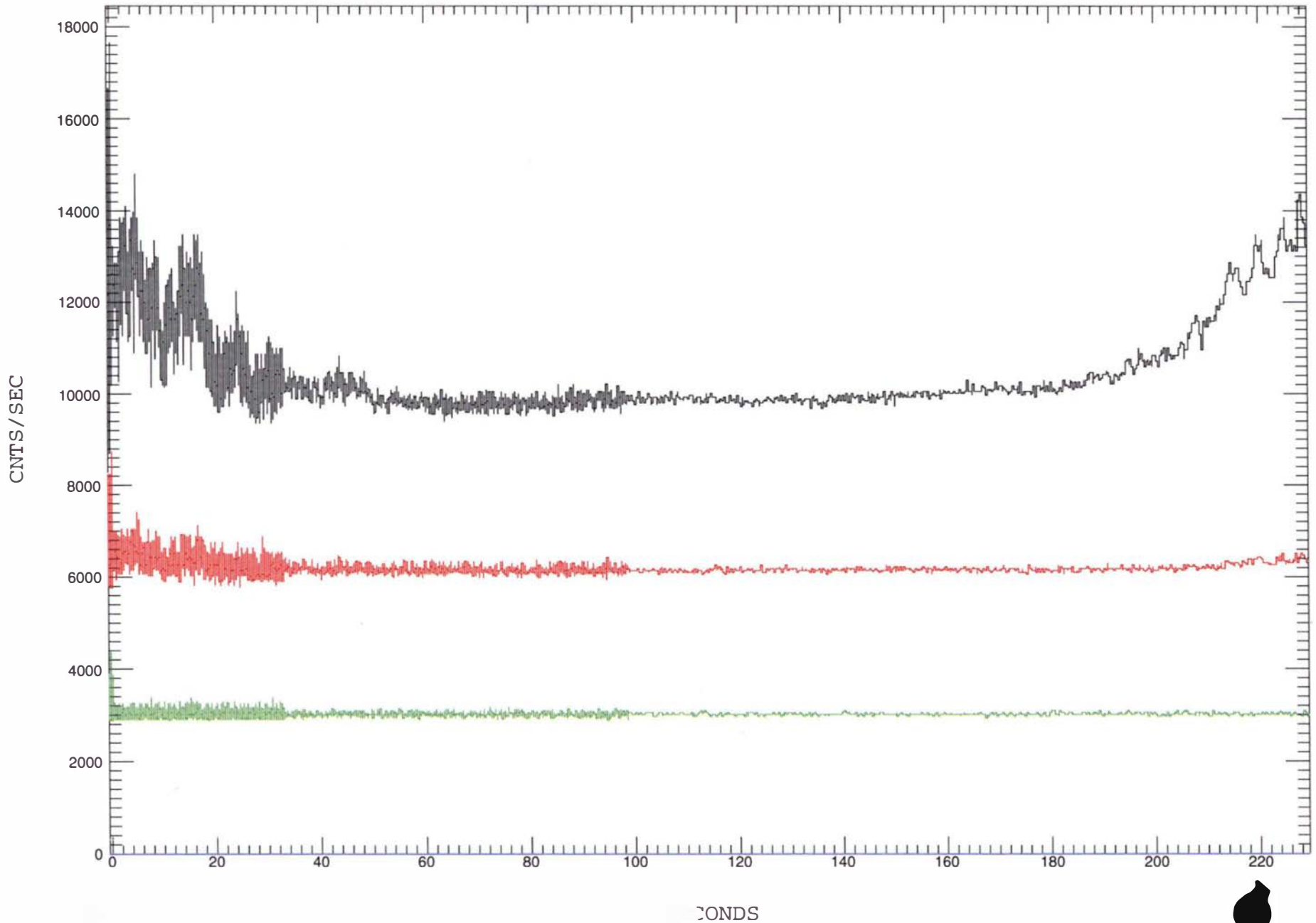
Chan 4 : [> 10 MeV]

Channel 1 + 8700

Channel 2 + 5800

Channel 3 + 2900

Channel 4 + 0



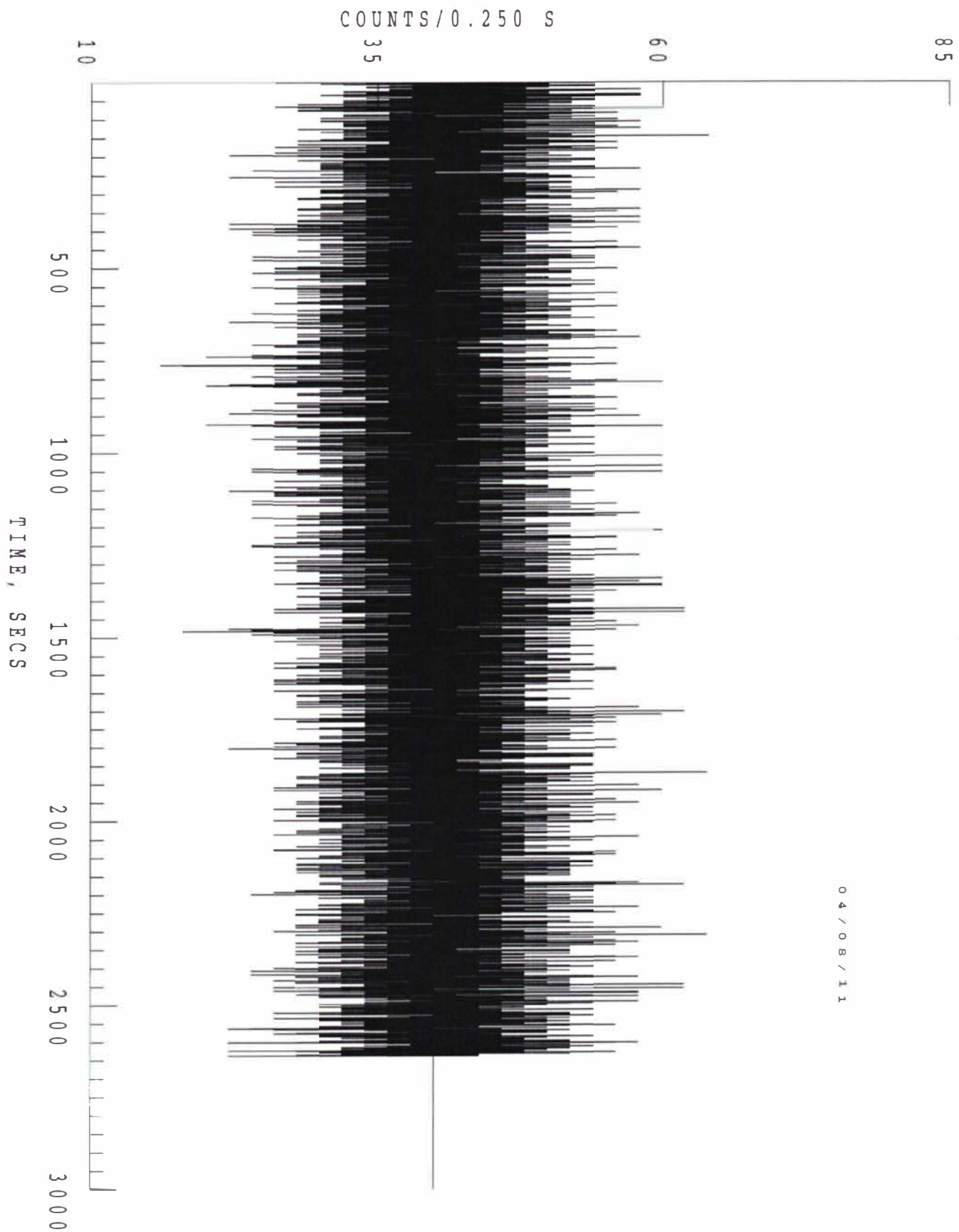
A

MS01

04/08/11

12089.739

50 - 3000 keV



GLAST

04/08/11

13454.928

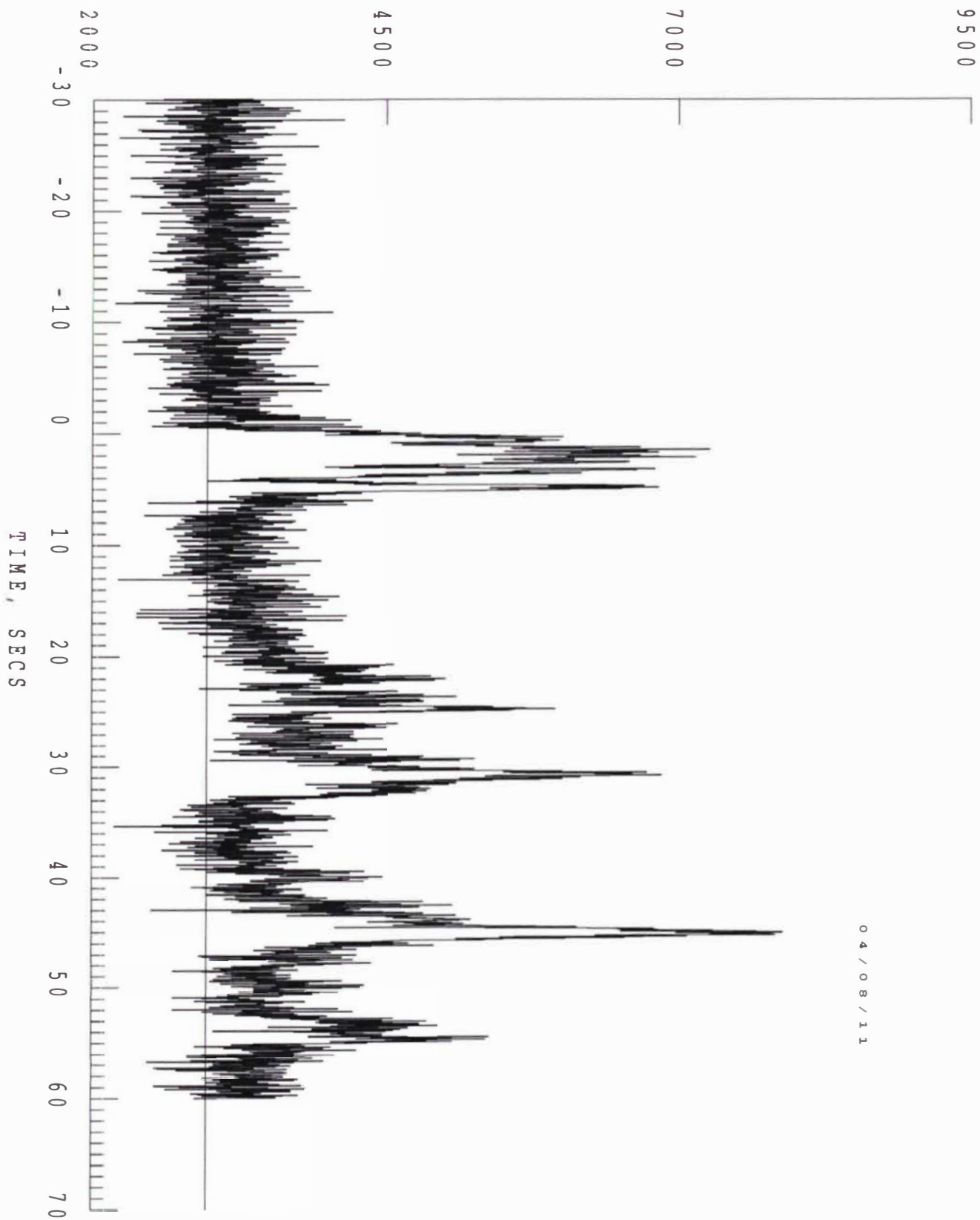
03:44:14

A

26 - 293 keV

Solar

COUNTS/0.032 S

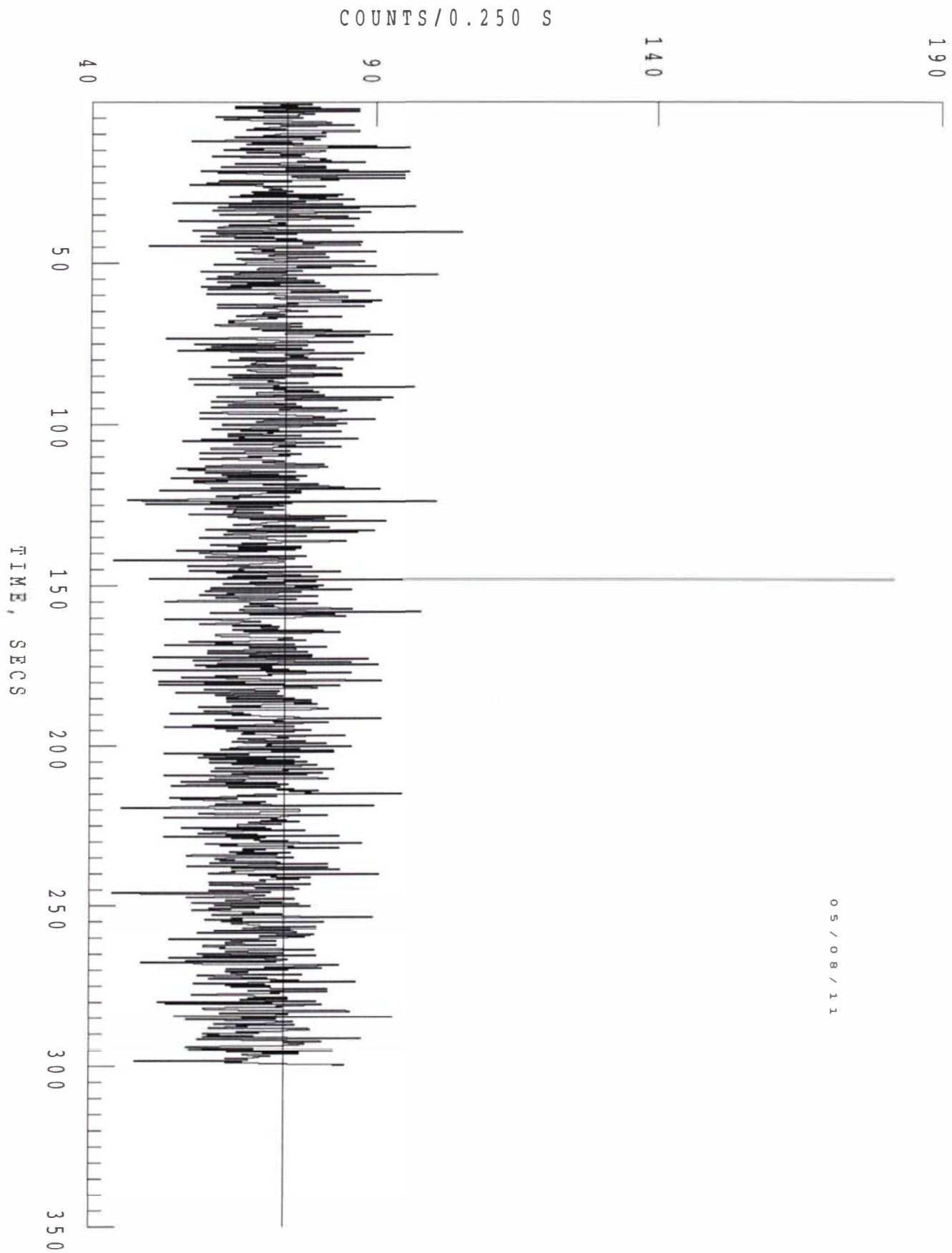


HESSI

04/08/11 13373.000 (KONUS2_20110804_13523)

A

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110804_0344

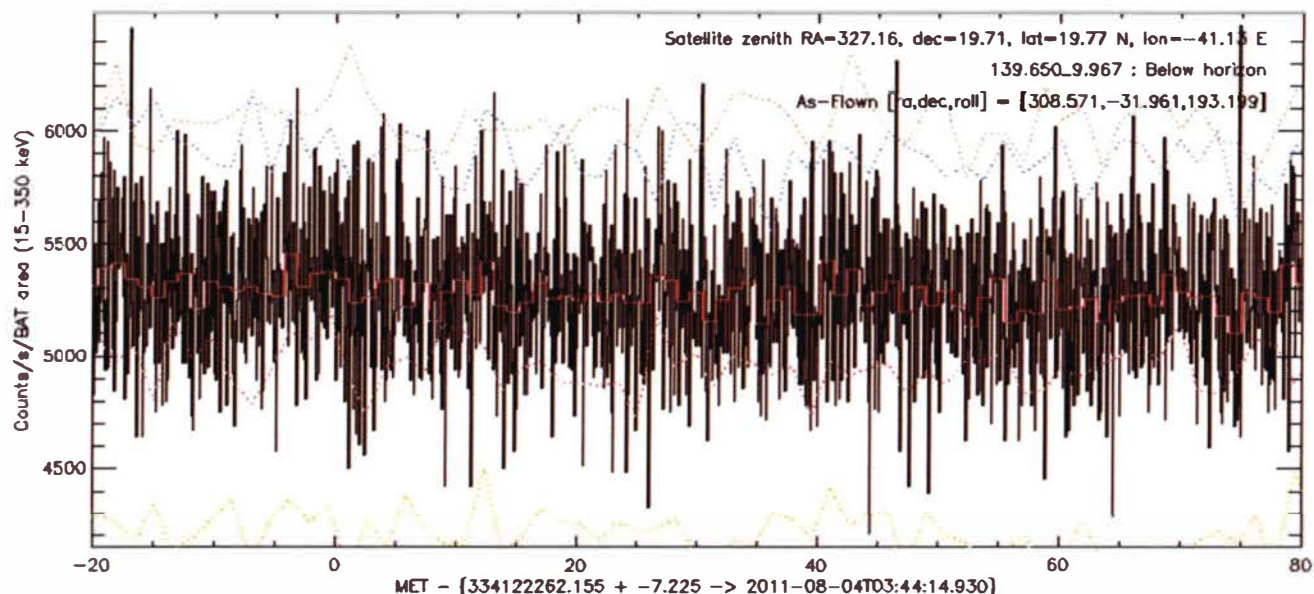
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 09:43:38 -0600 (MDT)

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

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

/tmp/110804_0344.png



13453 (GBM)

```
% /usr/local/bin/swinfo -o 334122262.155 -s 135.433_6.833
Time(MET + UTCF -> UT): 334122262.155 + -7.225 -> 2011-08-04T03:44:14.930
Swift Zenith(RA,dec): 327.16, 19.71
Swift Location(lon,lat,alt): -41.13 E, 19.77 N, 581 km
Obs Sequence Number: 00032048002
Obs Target Name: PSN J20342262-3158236
Obs Date and Times: 2011-08-04 03:31:54 - 03:50:51
Obs Pointing(ra,dec,roll): 308.571, -31.961, 193.20
135.433_6.833_imageloc (boresight_dist, angle): (154, -87)
135.433_6.833_exposure (cm² cos adjusted): 0
135.433_6.833_altitude: -37 (down)
```

```
% /usr/local/bin/swinfo -o 334122262.155 -s 137.250_13.567
Time(MET + UTCF -> UT): 334122262.155 + -7.225 -> 2011-08-04T03:44:14.930
Swift Zenith(RA,dec): 327.16, 19.71
Swift Location(lon,lat,alt): -41.13 E, 19.77 N, 581 km
Obs Sequence Number: 00032048002
Obs Target Name: PSN J20342262-3158236
Obs Date and Times: 2011-08-04 03:31:54 - 03:50:51
Obs Pointing(ra,dec,roll): 308.571, -31.961, 193.20
137.250_13.567_imageloc (boresight_dist, angle): (160, -78)
137.250_13.567_exposure (cm² cos adjusted): 0
137.250_13.567_altitude: -32 (down)
```

```
% /usr/local/bin/swinfo -o 334122262.155 -s 137.300_13.533
Time(MET + UTCF -> UT): 334122262.155 + -7.225 -> 2011-08-04T03:44:14.930
Swift Zenith(RA,dec): 327.16, 19.71
Swift Location(lon,lat,alt): -41.13 E, 19.77 N, 581 km
Obs Sequence Number: 00032048002
Obs Target Name: PSN J20342262-3158236
Obs Date and Times: 2011-08-04 03:31:54 - 03:50:51
Obs Pointing(ra,dec,roll): 308.571, -31.961, 193.20
137.300_13.533_imageloc (boresight_dist, angle): (160, -78)
137.300_13.533_exposure (cm² cos adjusted): 0
137.300_13.533_altitude: -32 (down)
```

```
% /usr/local/bin/swinfo -o 334122262.155 -s 139.650_9.967
Time(MET + UTCF -> UT): 334122262.155 + -7.225 -> 2011-08-04T03:44:14.930
Swift Zenith(RA,dec): 327.16, 19.71
```

[Ipn] BAT lightcurve for trigger at 110804_0344

Swift Location(lon,lat,alt): -41.13 E, 19.77 N, 581 km
Obs Sequence Number: 00032048002
Obs Target Name: PSN J20342262-3158236
Obs Date and Times: 2011-08-04 03:31:54 - 03:50:51
Obs Pointing(ra,dec,roll): 308.571, -31.961, 193.20
139.650_9.967_imageloc (boresight_dist, angle): (156, -76)
139.650_9.967_exposure (cm² cos adjusted): 0
139.650_9.967_altitude: -36 (down)

--
David Palmer palmer@lasp.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>

/tmp/110804_0344_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110804_0344.png

/tmp/110804_0344.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--



Subject: [Ipn] BAT lightcurve for trigger at 110804_0345

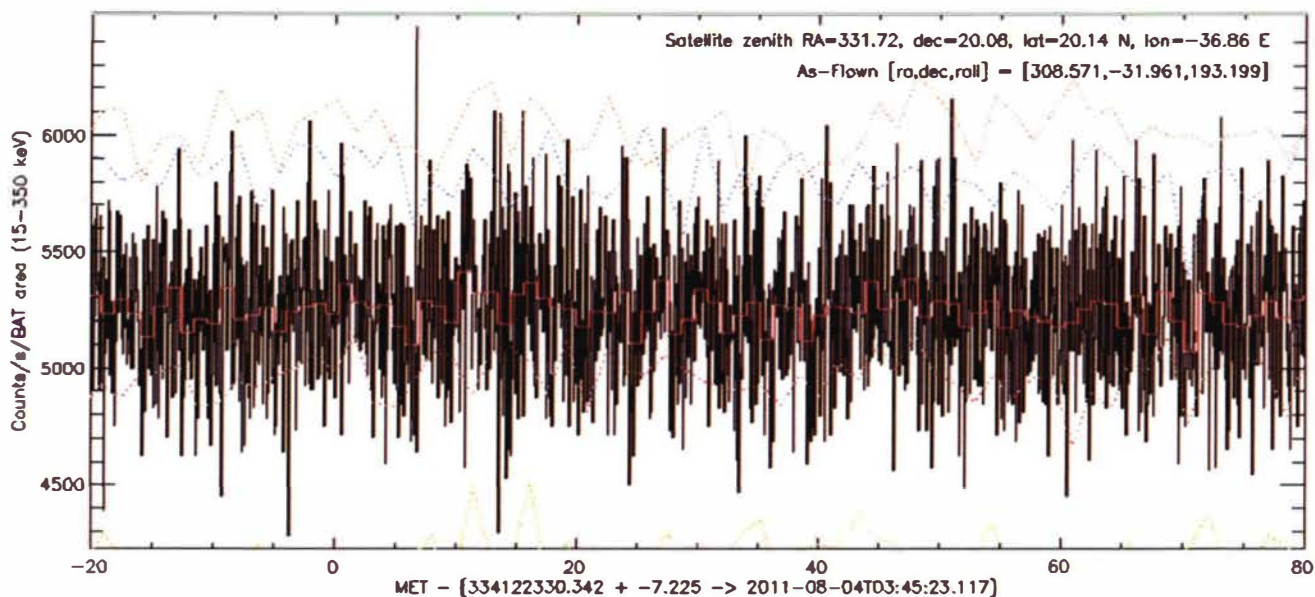
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 11:13:02 -0600 (MDT)

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

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

/tmp/110804_0345.png



13523 (Konus)

```
% /usr/local/bin/swinfo -o 334122330.342
Time(MET + UTCTF -> UT):      334122330.342 + -7.225 -> 2011-08-04T03:45:23.117
Swift Zenith(RA,dec):         331.72, 20.08
Swift Location(lon,lat,alt):   -36.86 E, 20.14 N, 581 km
Obs Sequence Number:          00032048002
Obs Target Name:               PSN J20342262-3158236
Obs Date and Times:            2011-08-04 03:31:54 - 03:50:51
Obs Pointing(ra,dec,roll):     308.571, -31.961, 193.20
```

--
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>

/tmp/110804_0345_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110804_0345.png

/tmp/110804_0345.png

Content-Type: image/png
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

SUZAKU

04/08/11

13938.169

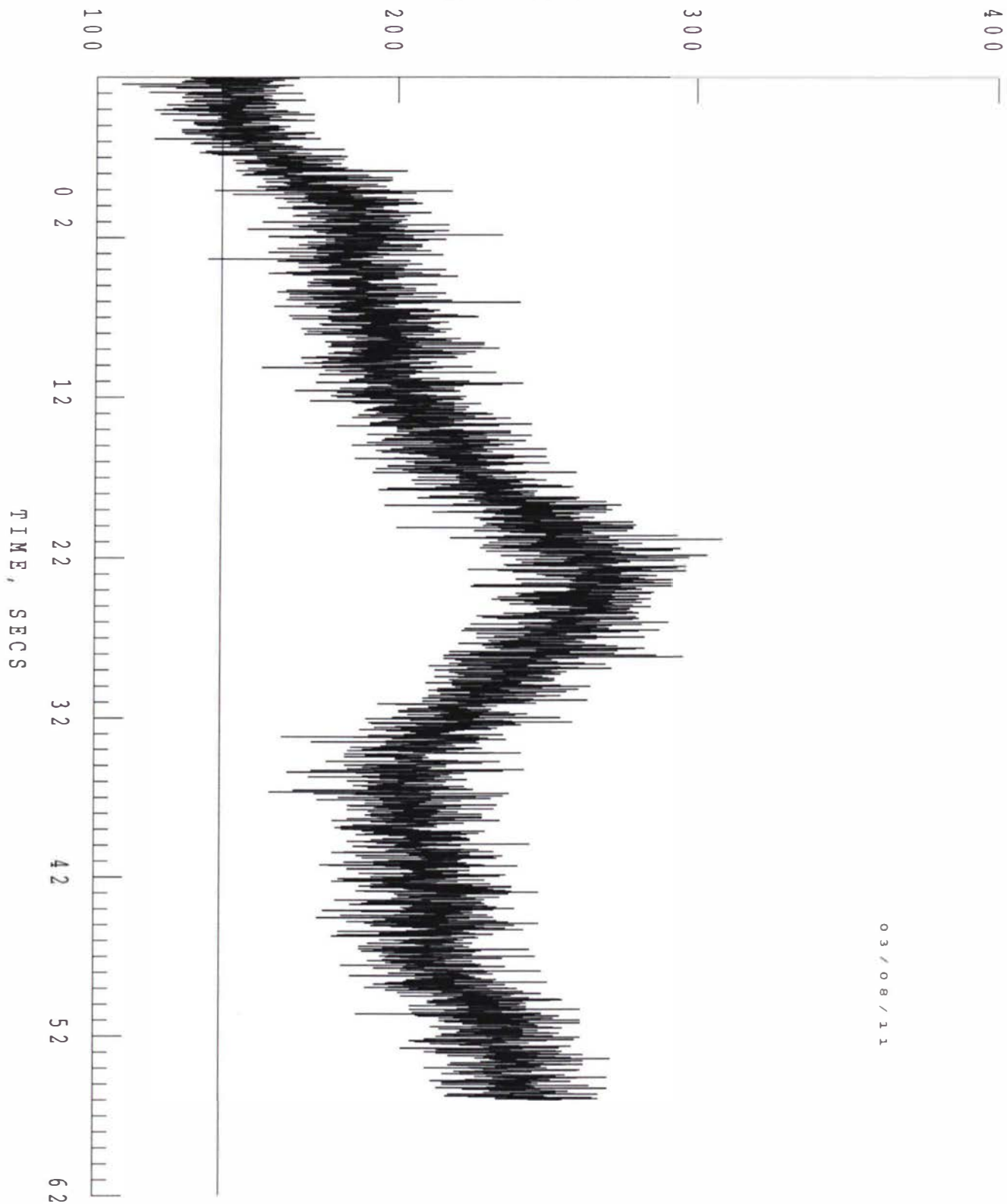
03:52:18

B

50 - 240 keV

Solar

COUNTS/0.016 S



MS01

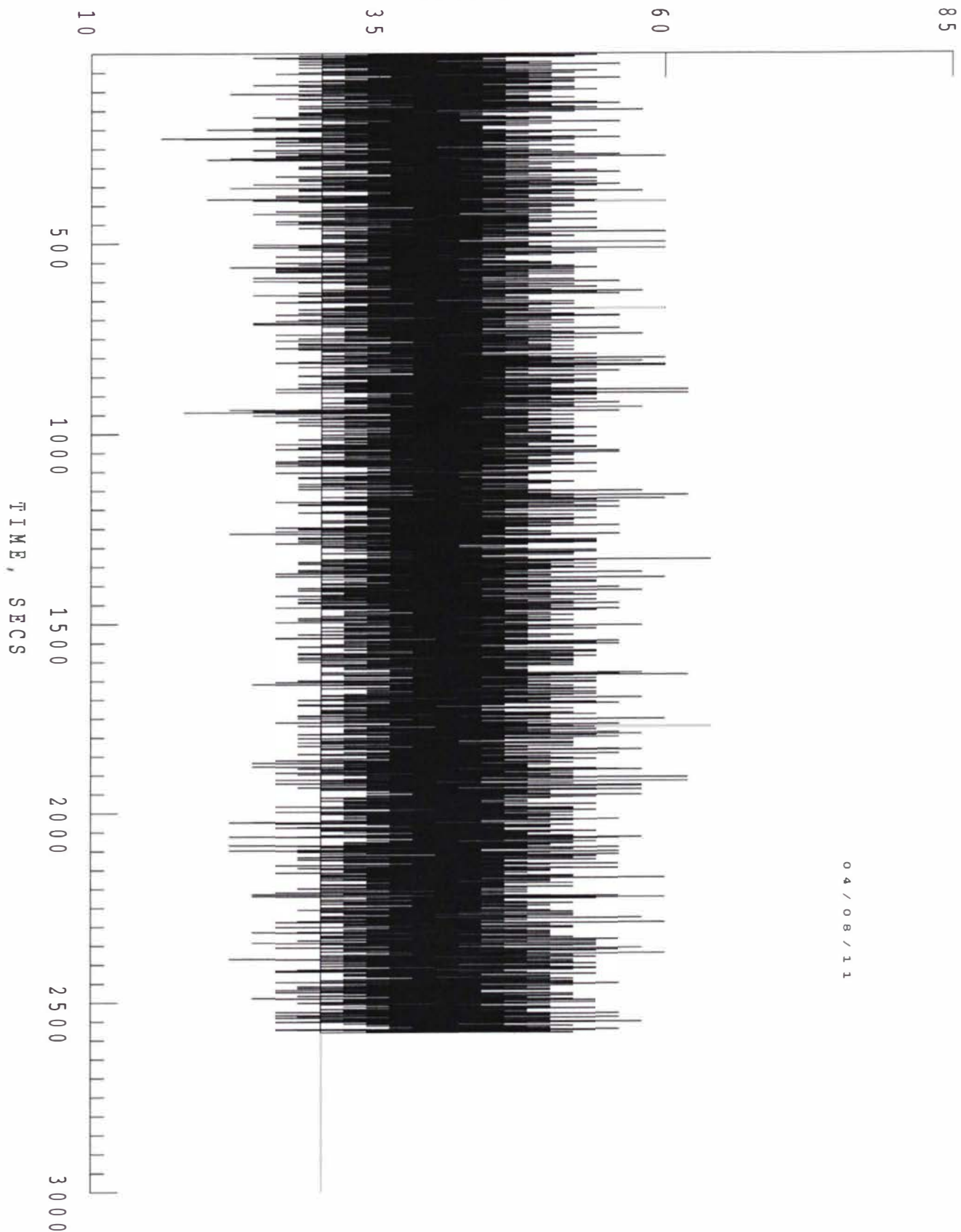
04/08/11

12629.723

B

50 - 3000 keV

COUNTS/0.250 S



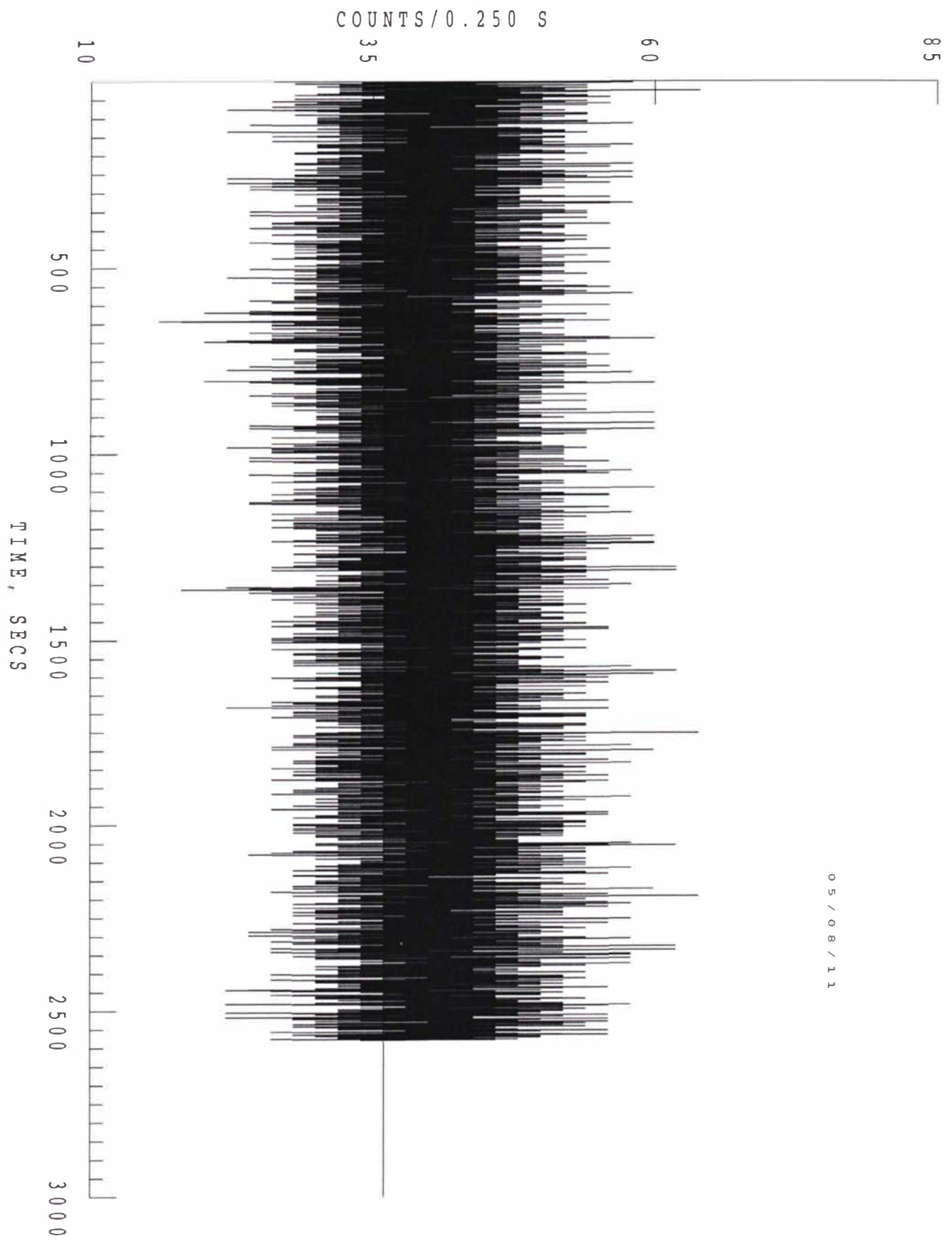
B

MS01

04/08/11

12209.738

50 - 3000 keV



05/08/11

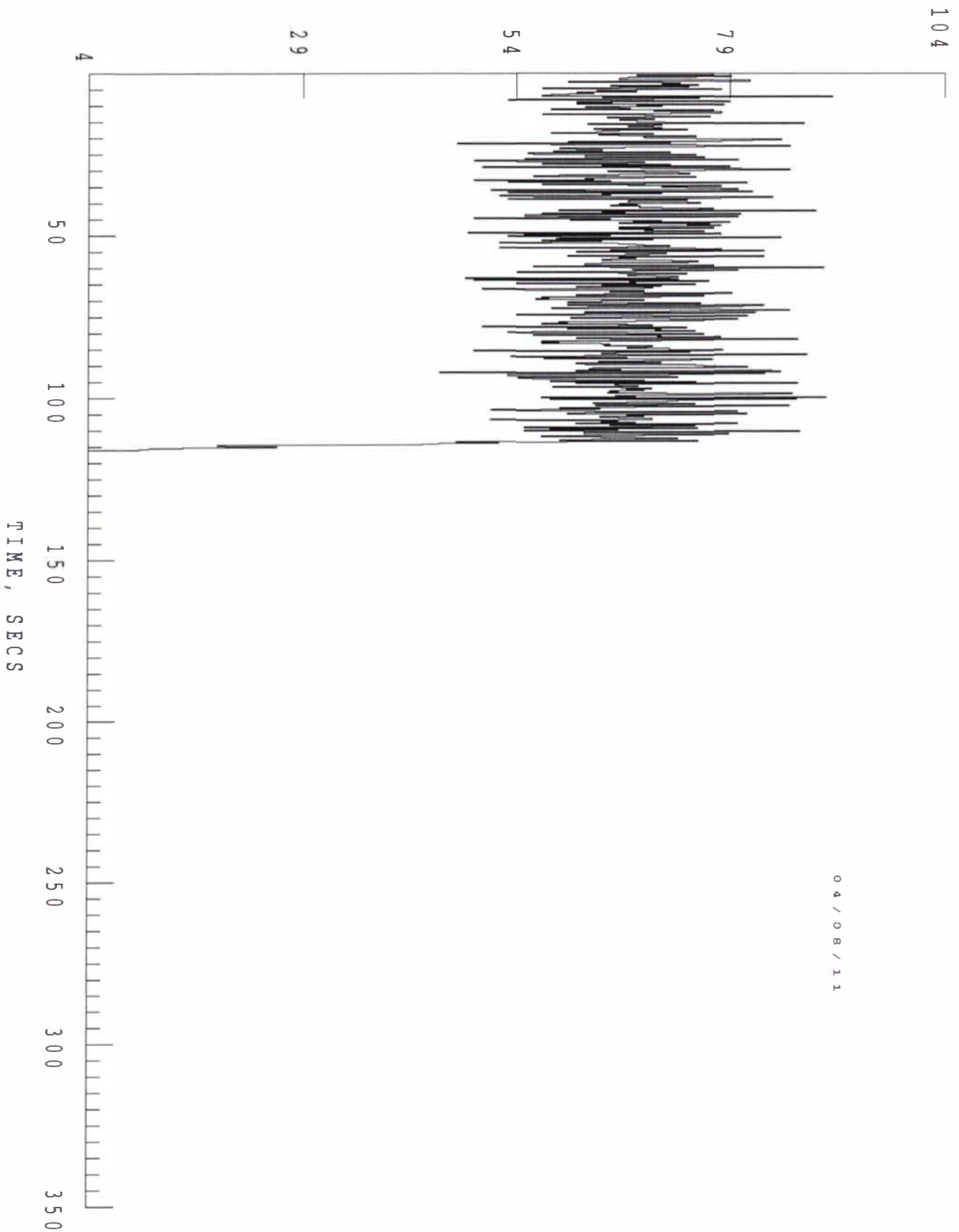
HESSI

04/08/11 13788.000 (SUZAKU_20110804_13938)

B

25 - 150 keV

COUNTS/0.250 S



From gcncirc@capella2.gsfc.nasa.gov Thu Aug 4 09:57:27 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: Fermi GBM trigger 334123030 (110804165) is not a GRB
cc: khurley@ssl.berkeley.edu
Date: Thu, 4 Aug 2011 12:57:53 -0400 (EDT)
X-Ucb-Scan-Signature: c53231105eb3e76051324dda6db1034c4c4b59ec
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.804'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 12248
SUBJECT: Fermi GBM trigger 334123030 (110804165) is not a GRB
DATE: 11/08/04 16:57:51 GMT
FROM: David Tierney at UCD <david.tierney@ucd.ie>

D. Tierney (UCD), reports on behalf of
the Fermi Gamma-ray Burst Monitor Team:

"The Fermi Gamma-ray Burst Monitor (GBM) trigger 334123030 (110804165)
at 03:57:08.01 UT on 04 August 2011, tentatively classified as a GRB,
is in fact not due to a GRB. This trigger is due to a solar flare."

Subject: [Ipn] BAT lightcurve for trigger at 110804_0357

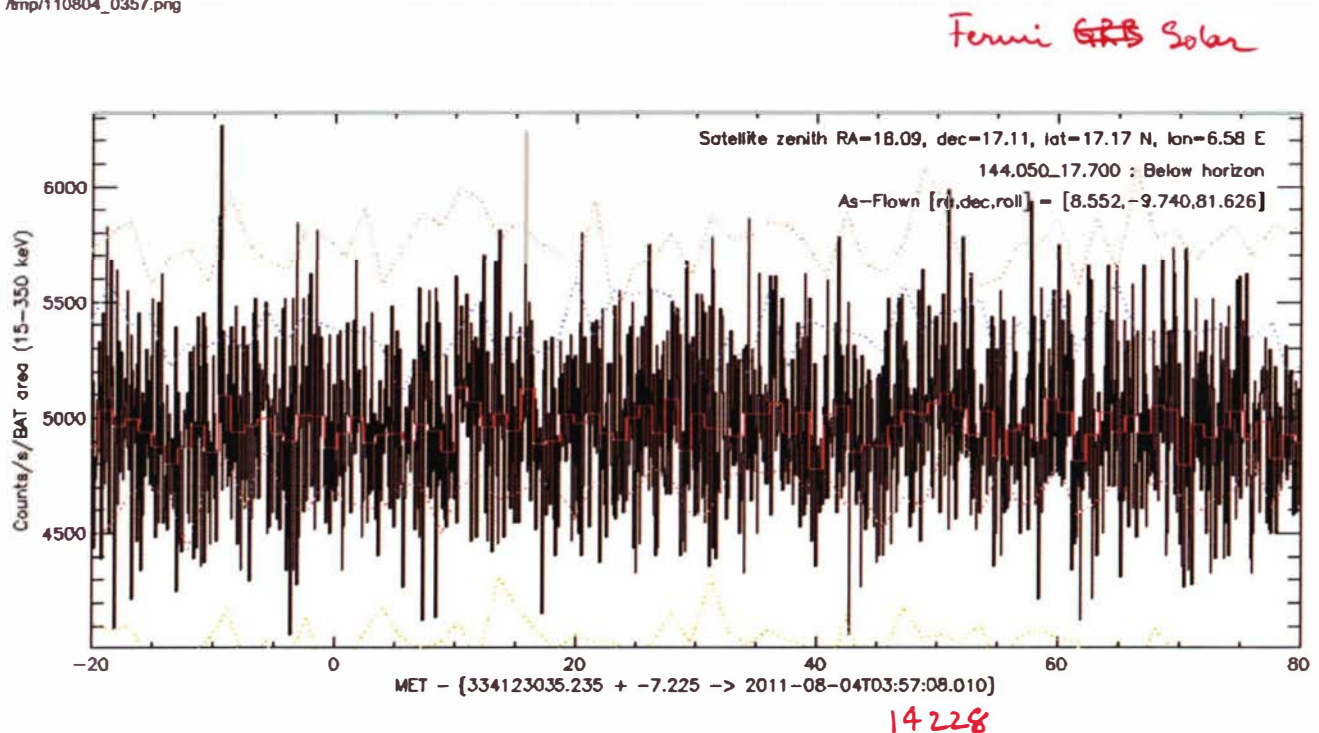
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 02:27:38 -0600 (MDT)

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

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

/tmp/110804_0357.png



```
% /usr/local/bin/swinfo -o 334123035.235 -s 127.770_17.100
Time(MET + UTCF -> UT):      334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec):        18.09, 17.11
Swift Location(lon,lat,alt):  6.58 E, 17.17 N, 589 km
Obs Sequence Number:         00032041006
Obs Target Name:              PTF1liqb
Obs Date and Times:           2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll):    8.552, -9.740, 81.63
127.770_17.100_imageloc (boresight_dist, angle): (121, -96)
127.770_17.100_exposure (cm2 cos adjusted): 0
127.770_17.100_altitude: 11 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334123035.235 -s 129.250_14.140
Time(MET + UTCF -> UT):      334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec):        18.09, 17.11
Swift Location(lon,lat,alt):  6.58 E, 17.17 N, 589 km
Obs Sequence Number:         00032041006
Obs Target Name:              PTF1liqb
Obs Date and Times:           2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll):    8.552, -9.740, 81.63
129.250_14.140_imageloc (boresight_dist, angle): (122, -92)
129.250_14.140_exposure (cm2 cos adjusted): 0
129.250_14.140_altitude: 8 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334123035.235 -s 129.960_22.740
Time(MET + UTCF -> UT):      334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec):        18.09, 17.11
Swift Location(lon,lat,alt):  6.58 E, 17.17 N, 589 km
Obs Sequence Number:         00032041006
Obs Target Name:              PTF1liqb
Obs Date and Times:           2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll):    8.552, -9.740, 81.63
129.960_22.740_imageloc (boresight_dist, angle): (123, -102)
129.960_22.740_exposure (cm2 cos adjusted): 0
129.960_22.740_altitude: 11 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334123035.235 -s 135.270_17.920
Time(MET + UTCF -> UT):      334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec):        18.09, 17.11
```

[lpn] BAT lightcurve for trigger at 110804_0357

```
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF1liqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
135.270_17.920_imageloc (boresight_dist, angle): (128, -97)
135.270_17.920_exposure (cm^2 cos adjusted): 0
135.270_17.920_altitude: 5 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334123035.235 -s 138.670_17.310
Time(MET + UTCF -> UT): 334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec): 18.09, 17.11
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF1liqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
138.670_17.310_imageloc (boresight_dist, angle): (131, -96)
138.670_17.310_exposure (cm^2 cos adjusted): 0
138.670_17.310_altitude: 2 (attenuated by atmosphere at 76 km)

% /usr/local/bin/swinfo -o 334123035.235 -s 143.667_17.867
Time(MET + UTCF -> UT): 334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec): 18.09, 17.11
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF1liqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
143.667_17.867_imageloc (boresight_dist, angle): (136, -97)
143.667_17.867_exposure (cm^2 cos adjusted): 0
143.667_17.867_altitude: -2 (down)

% /usr/local/bin/swinfo -o 334123035.235 -s 144.050_17.700
Time(MET + UTCF -> UT): 334123035.235 + -7.225 -> 2011-08-04T03:57:08.010
Swift Zenith(RA,dec): 18.09, 17.11
Swift Location(lon,lat,alt): 6.58 E, 17.17 N, 589 km
Obs Sequence Number: 00032041006
Obs Target Name: PTF1liqb
Obs Date and Times: 2011-08-04 03:50:54 - 04:01:50
Obs Pointing(ra,dec,roll): 8.552, -9.740, 81.63
144.050_17.700_imageloc (boresight_dist, angle): (136, -97)
144.050_17.700_exposure (cm^2 cos adjusted): 0
144.050_17.700_altitude: -3 (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>

/tmp/110804_0357_bat64ms_ipn

Content-Type:

application/octet-stream

Content-Encoding:

base64

/tmp/110804_0357.png

/tmp/110804_0357.png

Content-Type:

image/png

Content-Encoding:

base64

Part 1.4

Part 1.4

Content-Type:

text/plain

Content-Encoding:

7bit

Part 1.5

Part 1.5

Content-Type:

text/plain

Content-Encoding:

7bit

GLAST

04/08/11

20363.644

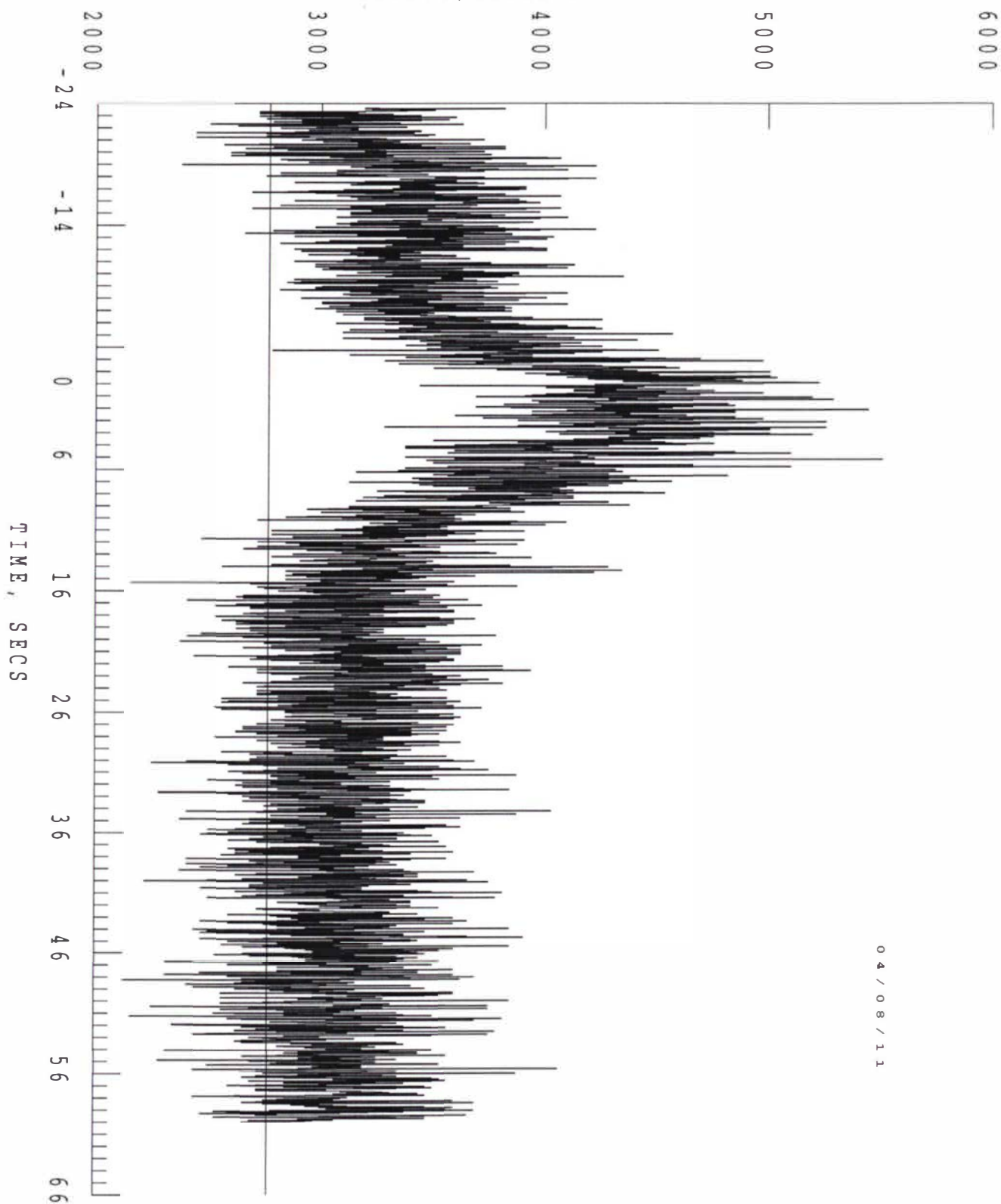
05:39:23

C

26 - 293 keV

Solar

COUNTS/0.032 S



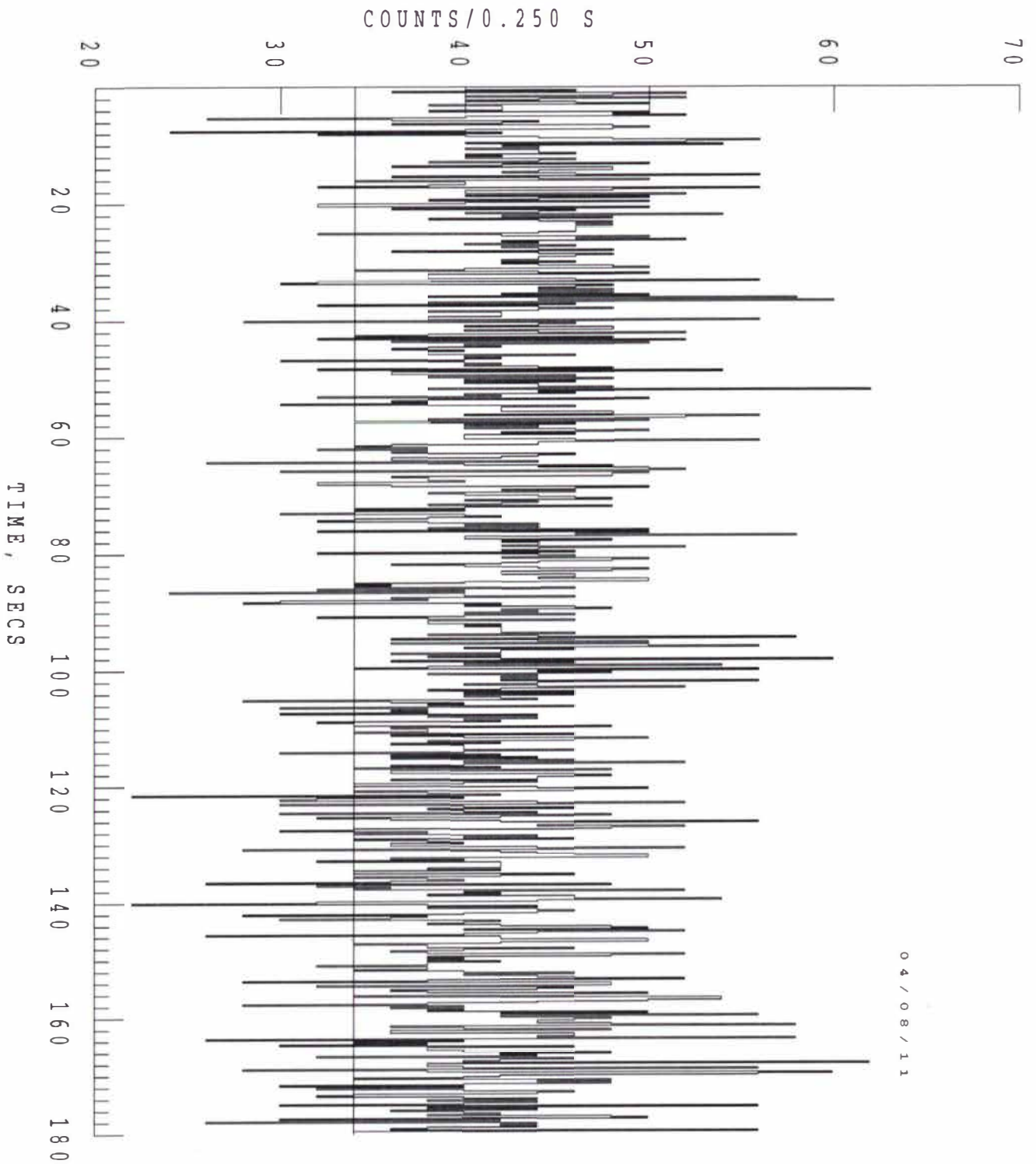
04/08/11

MS01

04/08/11

19049.619

50- 3000 keV



C

From williams@gammaburst.ssl.berkeley.edu Tue Aug 9 23:03:05 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 9 Aug 2011 23:02:18 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
o: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GLAST_20110804_20363
X-Ucb-Scan-Signature: 76f3d68efdf88d01ce29d33ae5aaa66cc0f9b7e7
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 9-Aug-2011 23:02:32.00
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

C

Subject: [Ipn] BAT lightcurve for trigger at 110804_0539

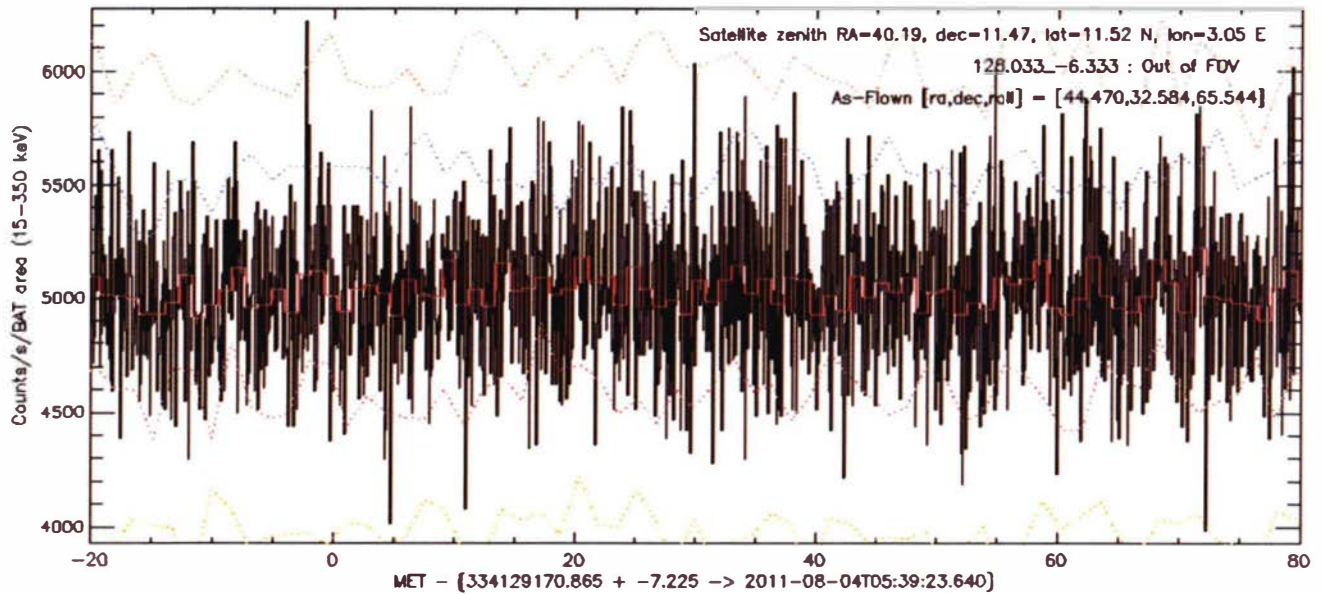
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 08:47:09 -0600 (MDT)

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

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

/tmp/110804_0539.png



```
% /usr/local/bin/swinfo -o 334129170.865 -s 128.033_-6.333
Time(MET + UTCF -> UT):      334129170.865 + -7.225 -> 2011-08-04T05:39:23.640
Swift Zenith(RA,dec):        40.19, 11.47
Swift Location(lon,lat,alt):  3.05 E, 11.52 N, 592 km
Obs Sequence Number:         00020175001
Obs Target Name:              N/A
Obs Date and Times:           2011-08-04 05:16:02 - 06:01:02
Obs Pointing(ra,dec,roll):    44.470, 32.584, 65.54
128.033_-6.333_imageloc (boresight_dist, angle): (88, -57)
128.033_-6.333_exposure (cm² cos adjusted): 0
128.033_-6.333_altitude: 25 (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>

/tmp/110804_0539.png

Content-Type: image/png
Content-Encoding: base64

/tmp/110804_0539_bat64ms_ipn

/tmp/110804_0539_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

KONUS2

04/08/11

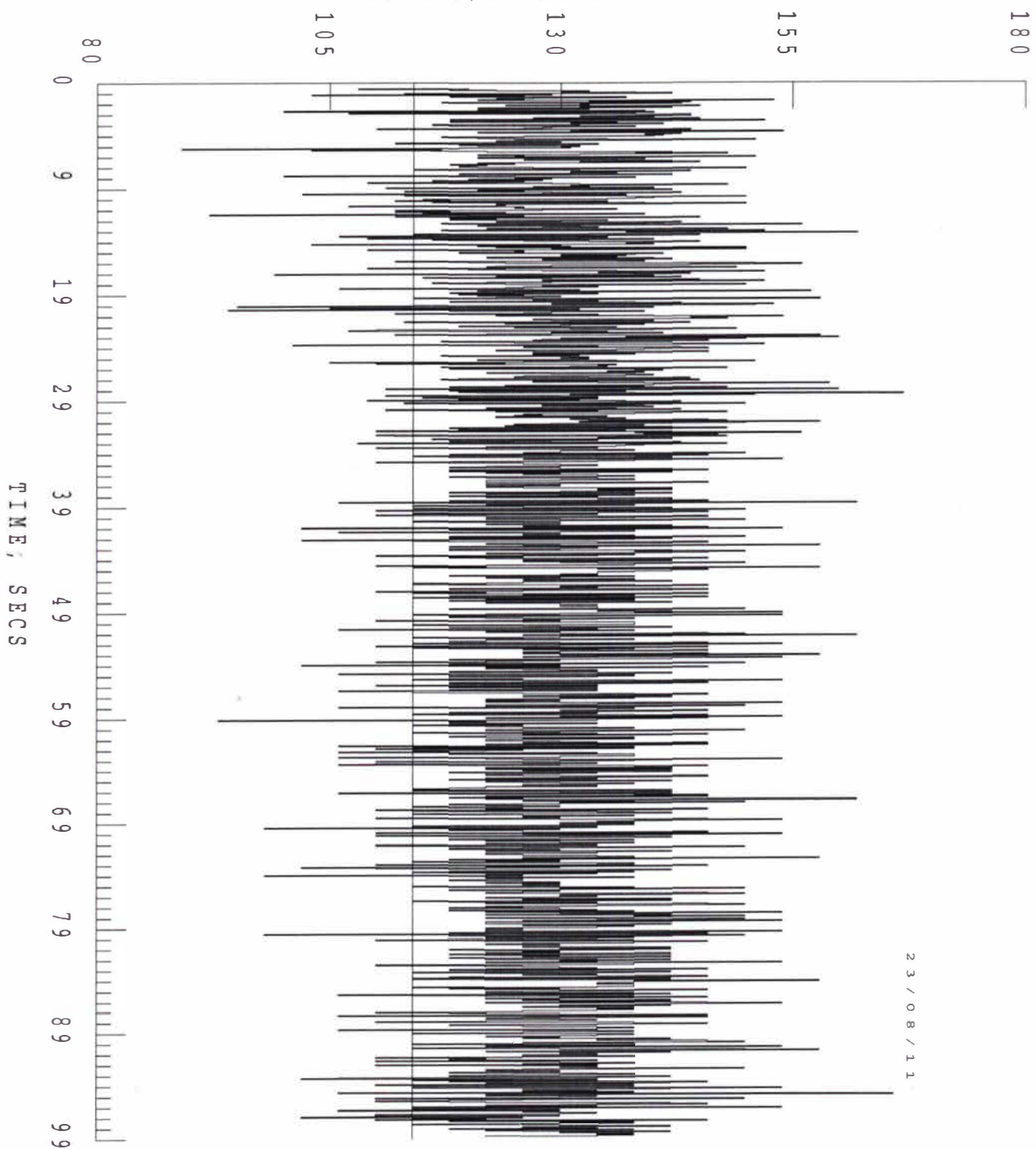
26394.543

D

50 - 200 keV

Particles

COUNTS/0.064 S



KONUS HRES 20110804 26394

TRIGGER TIME: 04/08/11 DOY 216 Julian 2455778.80549 UT = 07.332 07:19:54 (26394.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

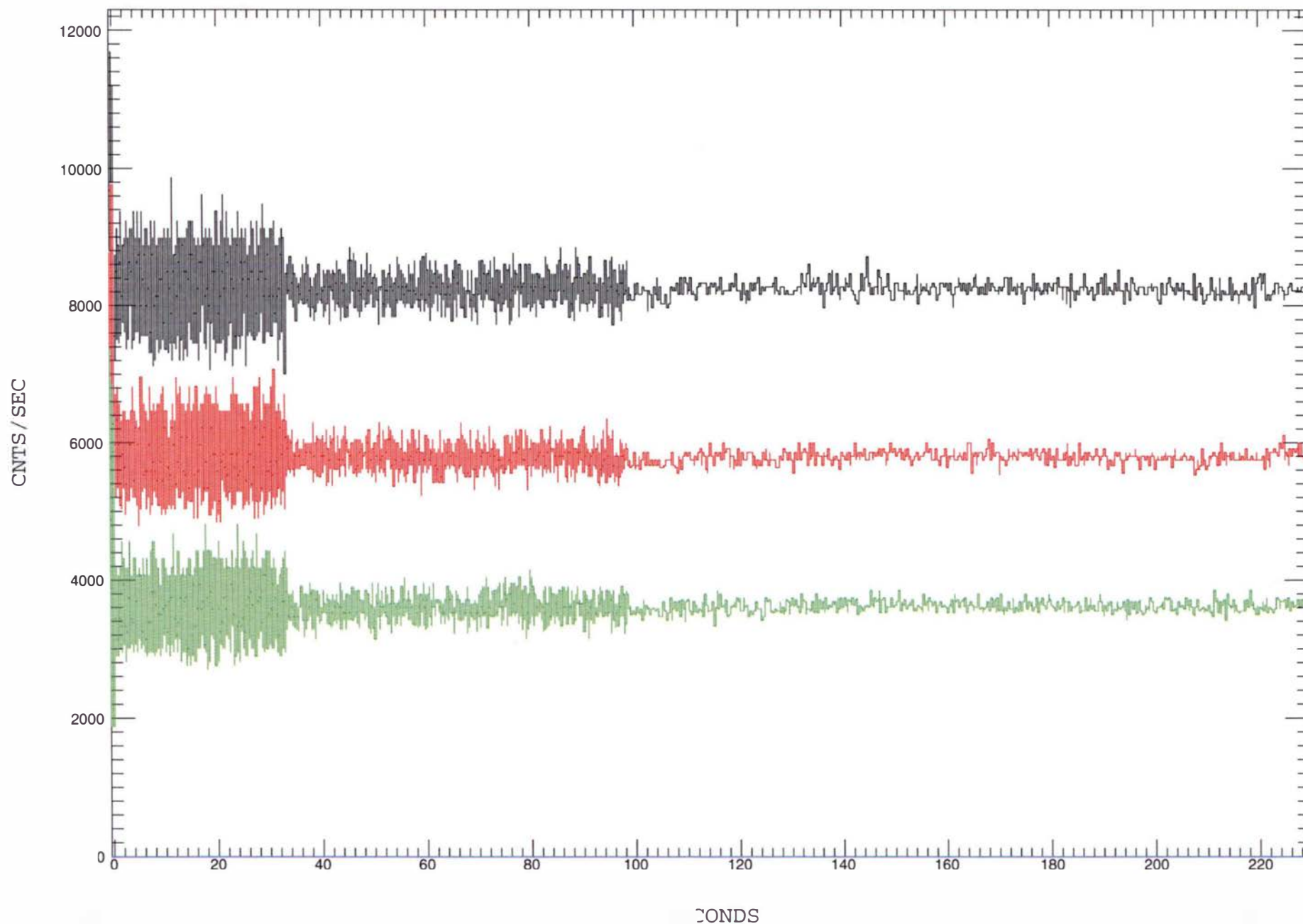
Chan 4 : [> 10 MeV]

Channel 1 + 5700

Channel 2 + 3800

Channel 3 + 1900

Channel 4 + 0



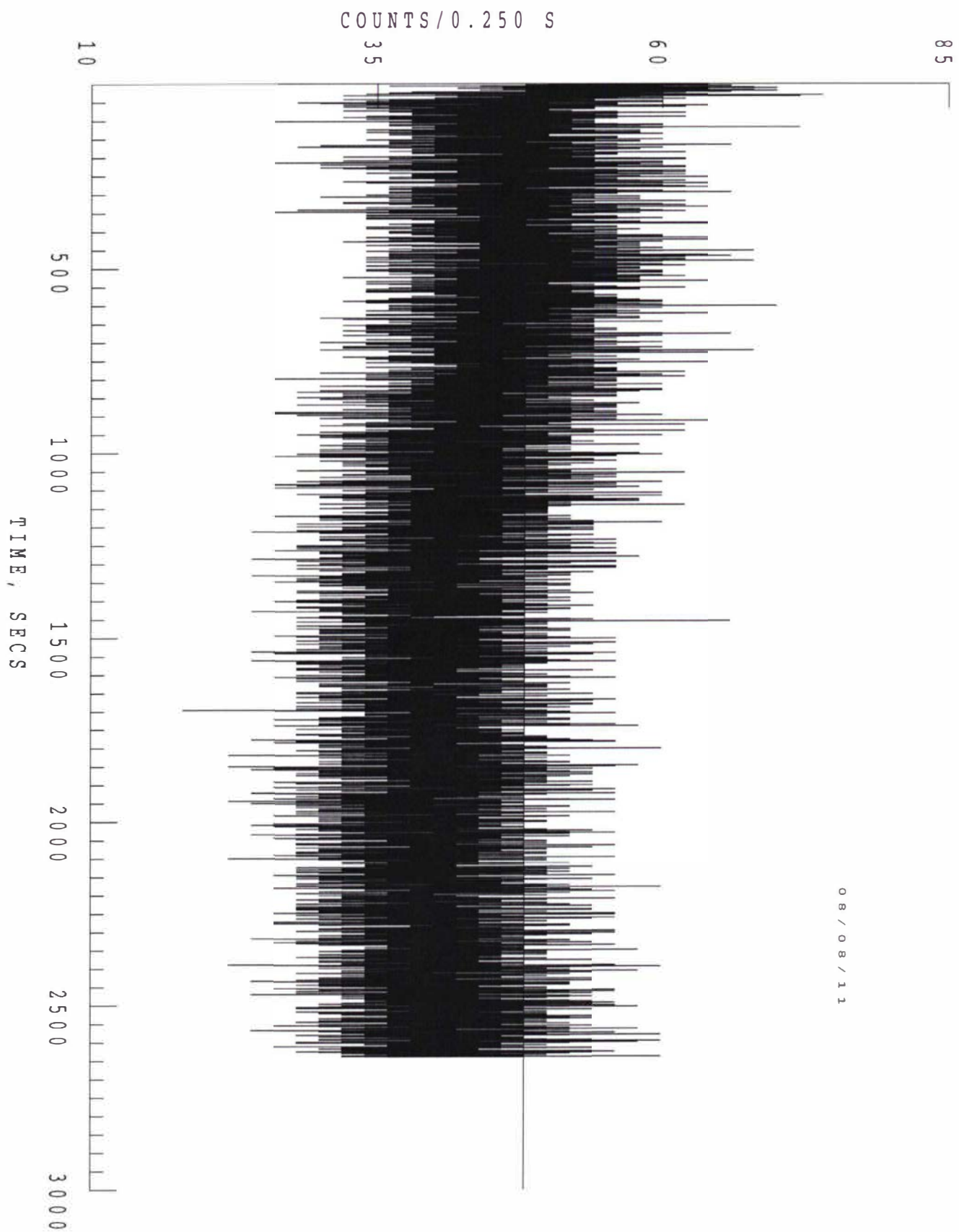
D

MS01

04/08/11

25049.523

50 - 3000 keV



D

From williams@gammaburst.ssl.berkeley.edu Tue Aug 9 23:05:01 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 9 Aug 2011 23:04:14 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20110804_26394
X-Ucb-Scan-Signature: 4b575a76698c459890147f6b5b9e12e7ebae9ac0
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 9-Aug-2011 23:04:25.00
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 110804_0719

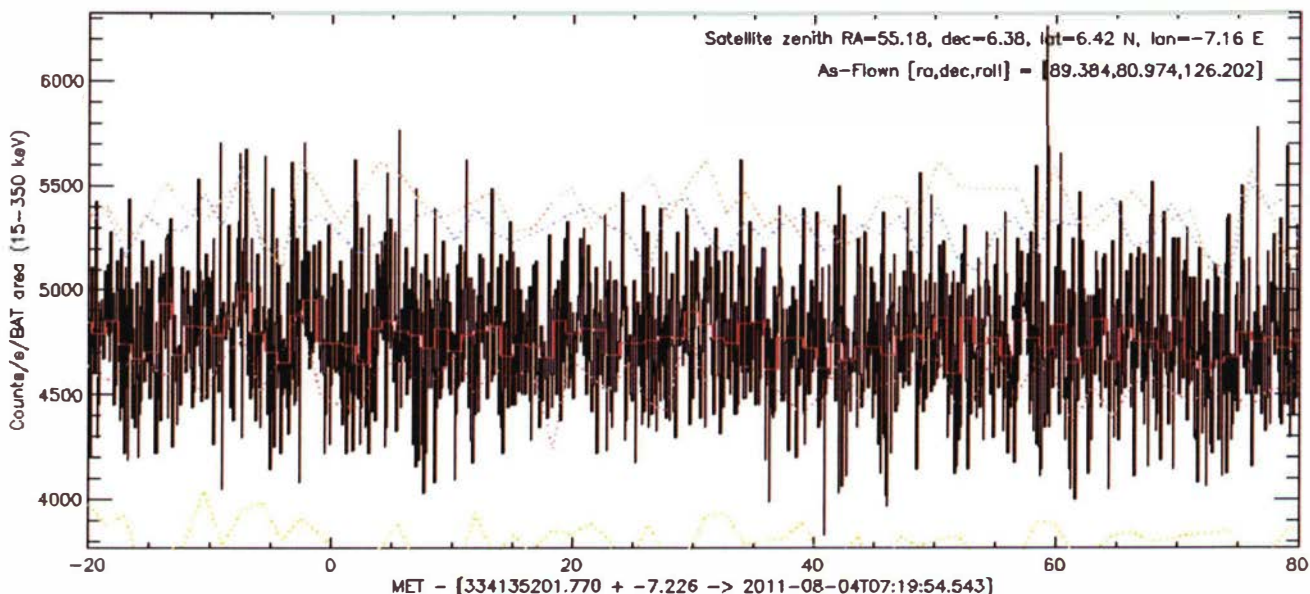
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 11:14:36 -0600 (MDT)

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

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

/tmp/110804_0719.png



26394

```
% /usr/local/bin/swinfo -o 334135201.769
Time(MET + UTC -> UT):      334135201.770 + -7.226 -> 2011-08-04T07:19:54.543
Swift Zenith(RA,dec):       55.18, 6.38
Swift Location(lon,lat,alt): -7.16 E, 6.42 N, 594 km
Obs Sequence Number:        00458521005
Obs Target Name:             GRB 110801A
Obs Date and Times:          2011-08-04 07:17:53 - 07:24:53
Obs Pointing(ra,dec,roll):   89.384, 80.974, 126.20
```

--
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>

/tmp/110804_0719.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110804_0719_bat64ms_ipn

/tmp/110804_0719_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

GLAST

04/08/11

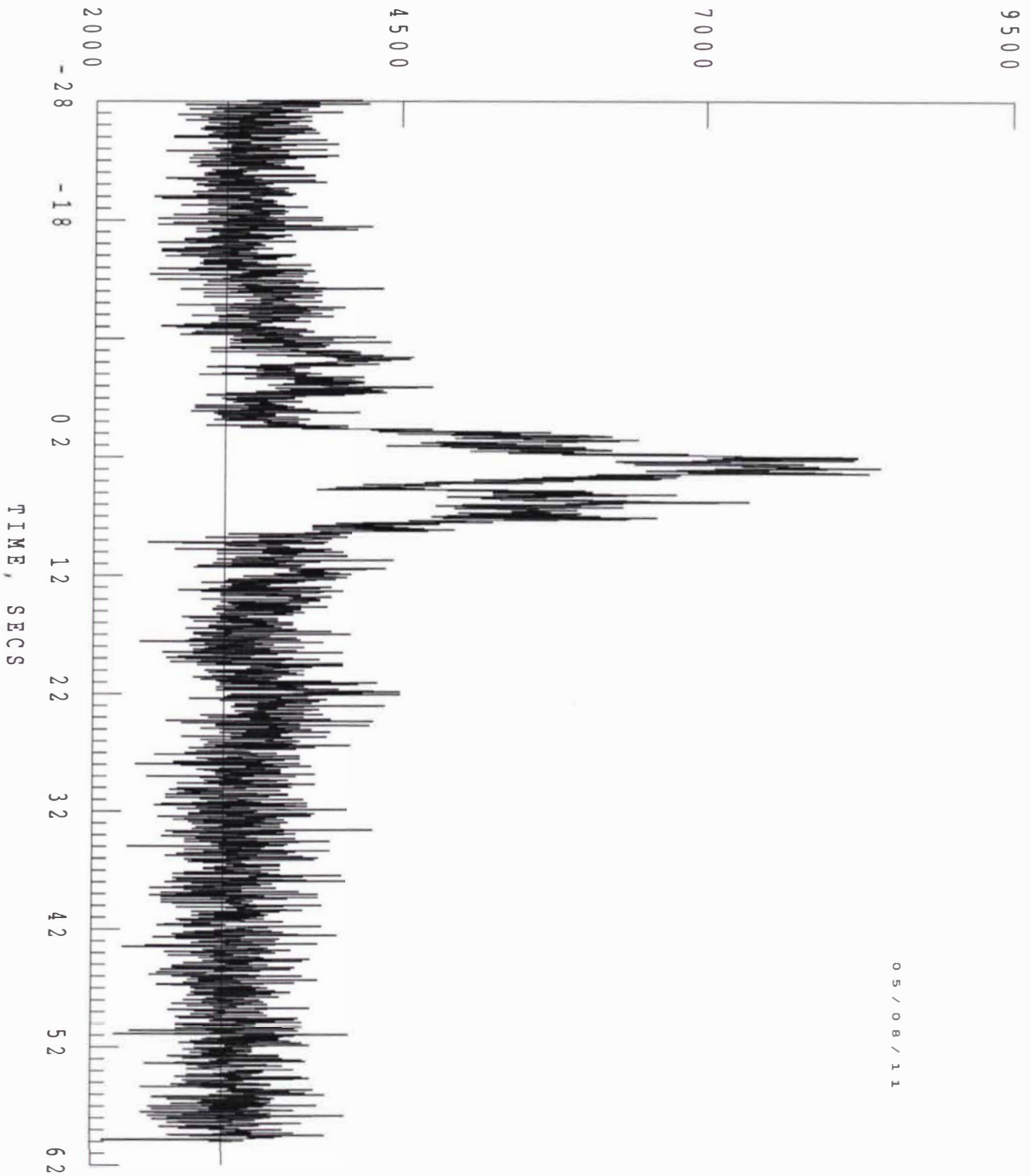
82164.205

11

26 - 293 keV

Solar

COUNTS/0.032 S



MS01

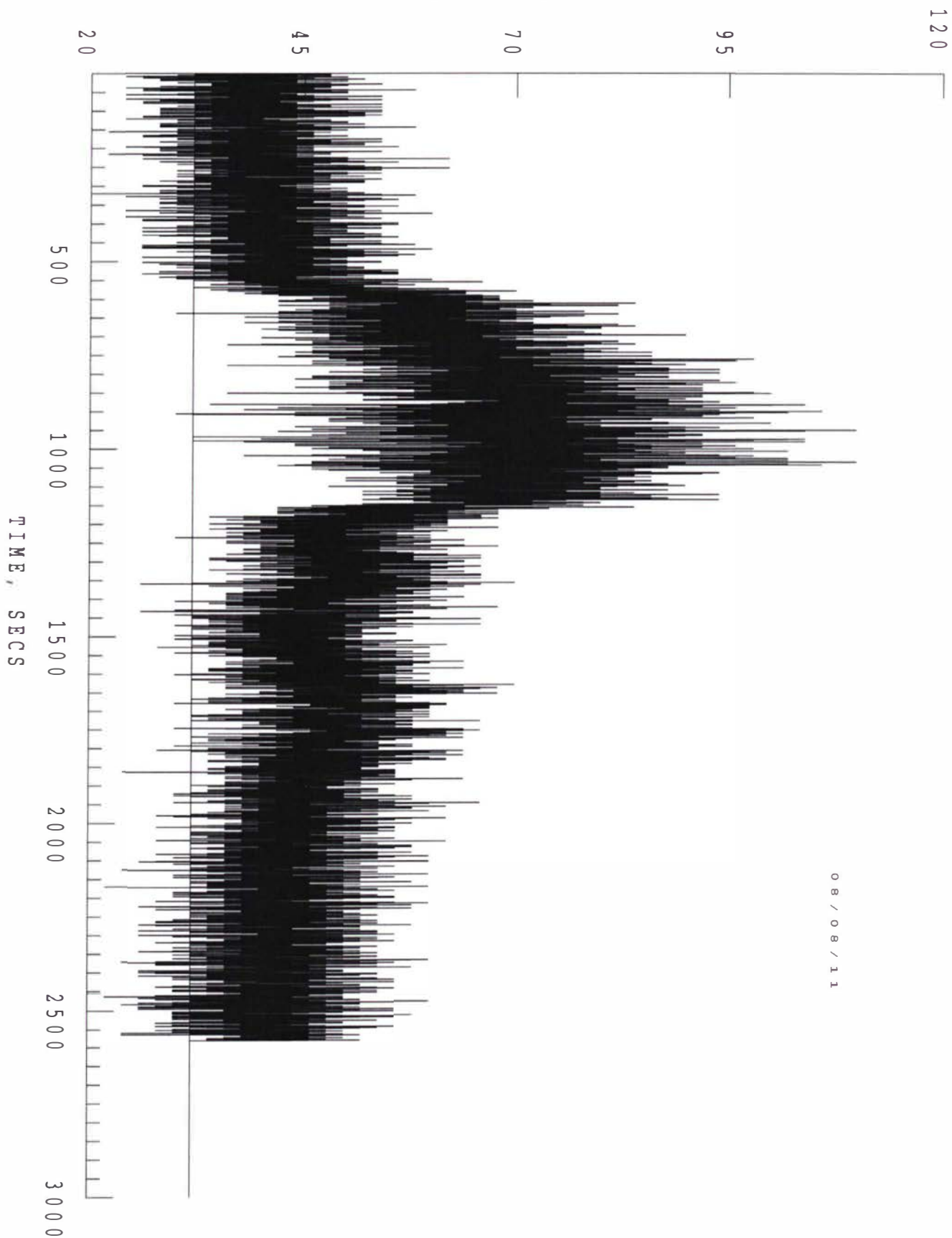
04/08/11

80848.582

W

50 - 3000 keV

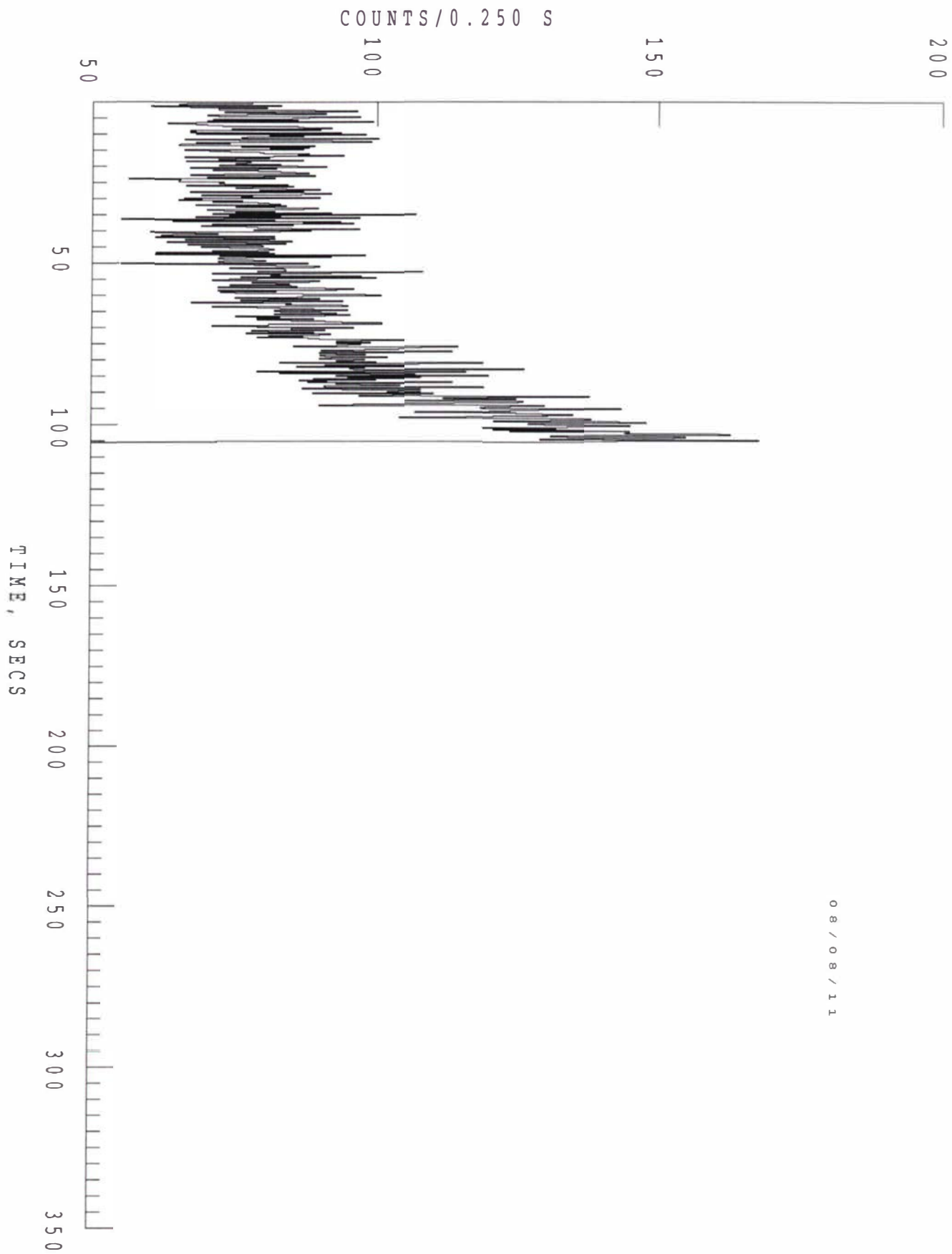
COUNTS/0.250 S



HESSI

04/08/11 82014.000 (GLAST_20110804_82164)

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110804_2249

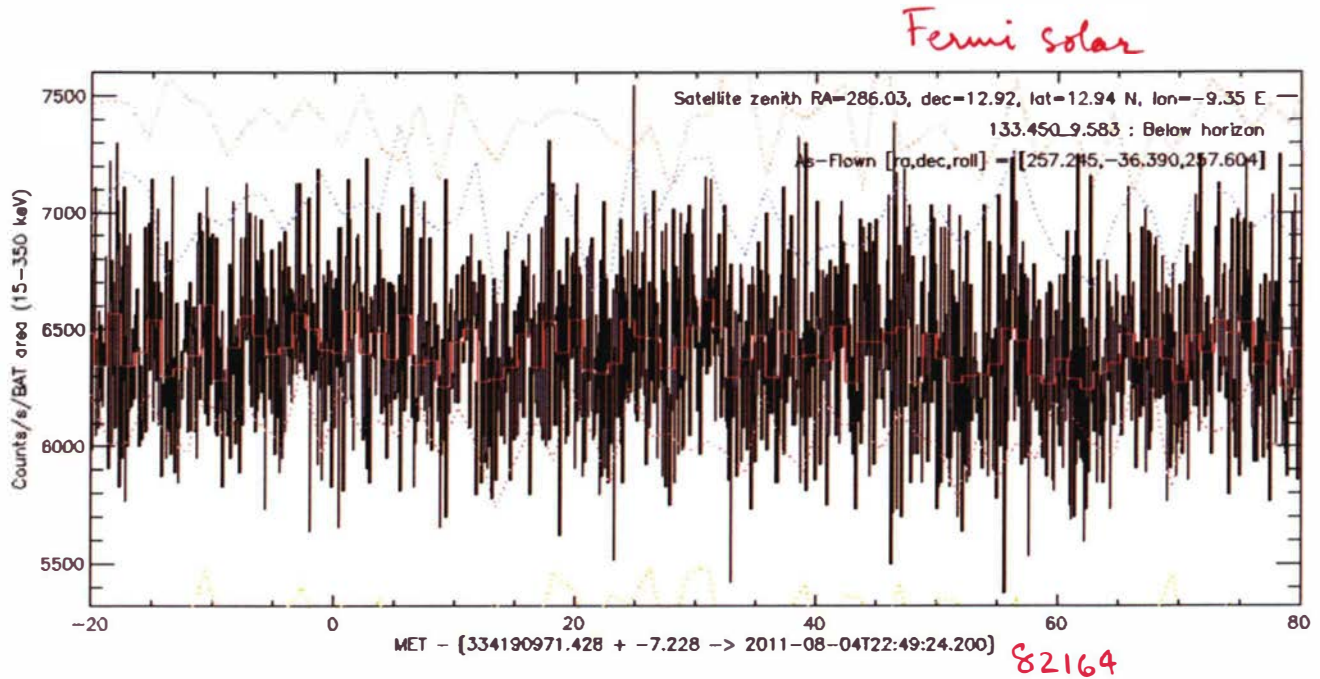
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 4 Aug 2011 23:09:01 -0600 (MDT)

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

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

/tmp/110804_2249.png



```
% /usr/local/bin/swinfo -o 334190971.428 -s 129.250_6.450
Time(MET + UTCF -> UT):      334190971.428 + -7.228 -> 2011-08-04T22:49:24.200
Swift Zenith(RA,dec):        286.03, 12.92
Swift Location(lon,lat,alt):  -9.35 E, 12.94 N, 575 km
Obs Sequence Number:         00035096028
Obs Target Name:              IGR J1709.1-3624
Obs Date and Times:           2011-08-04 22:39:54 - 22:50:50
Obs Pointing(ra,dec,roll):    257.245, -36.390, 257.60
129.250_6.450_imageloc (boresight_dist, angle): (124, -97)
129.250_6.450_exposure (cm2 cos adjusted): 0
129.250_6.450_altitude: -36 (down)
```

```
% /usr/local/bin/swinfo -o 334190971.428 -s 133.450_9.583
Time(MET + UTCF -> UT):      334190971.428 + -7.228 -> 2011-08-04T22:49:24.200
Swift Zenith(RA,dec):        286.03, 12.92
Swift Location(lon,lat,alt):  -9.35 E, 12.94 N, 575 km
Obs Sequence Number:         00035096028
Obs Target Name:              IGR J1709.1-3624
Obs Date and Times:           2011-08-04 22:39:54 - 22:50:50
Obs Pointing(ra,dec,roll):    257.245, -36.390, 257.60
133.450_9.583_imageloc (boresight_dist, angle): (123, -91)
133.450_9.583_exposure (cm2 cos adjusted): 0
133.450_9.583_altitude: -31 (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>

/tmp/110804_2249.png Content-Type: image/png

Content-Encoding: base64

/tmp/110804_2249_bat64ms_ipn

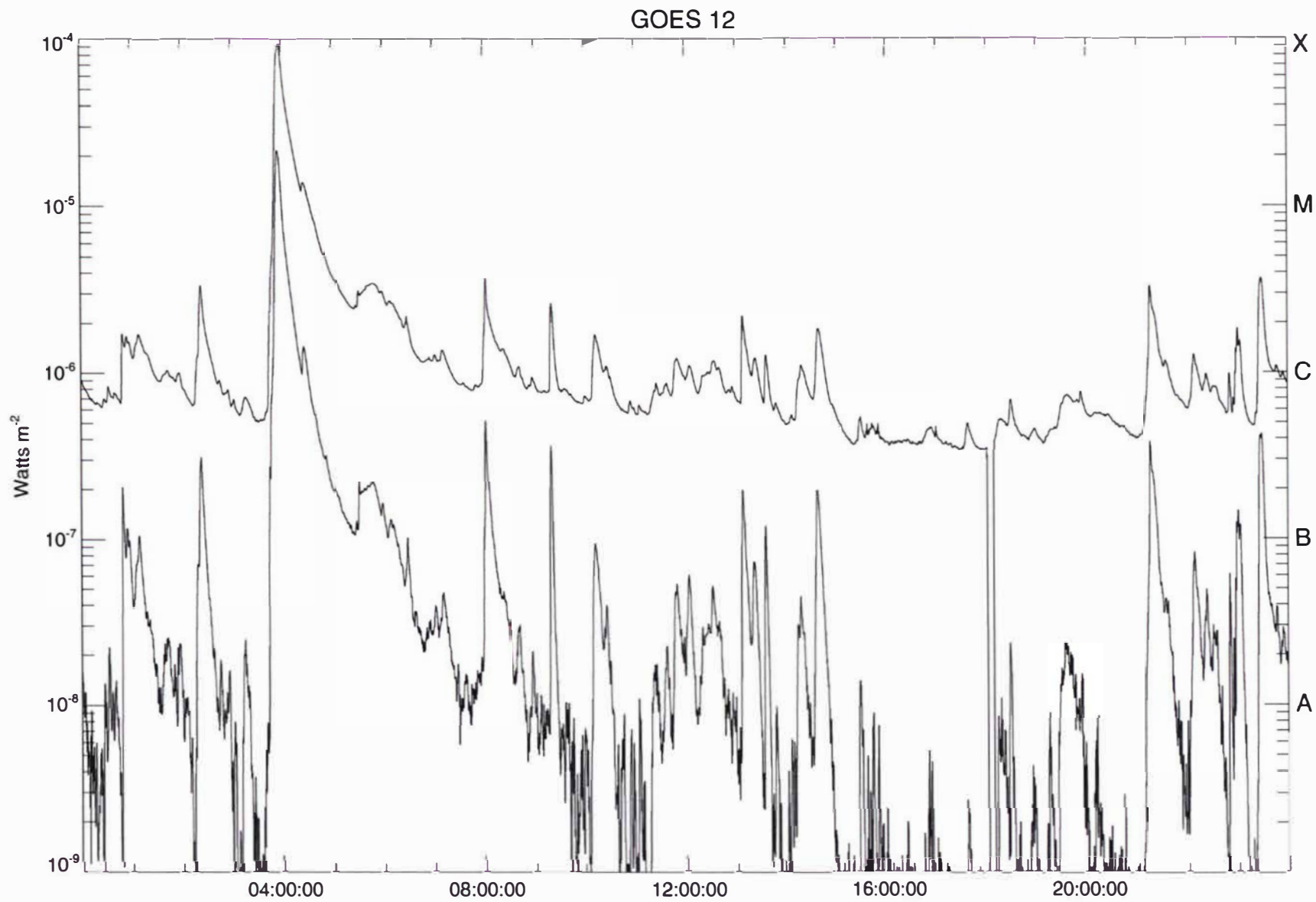
/tmp/110804_2249_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--



Data Start: 11/08/04, 0000:09

Plot created: 11/08/07, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: [lpn] BAT lightcurve for trigger at 110805_1944

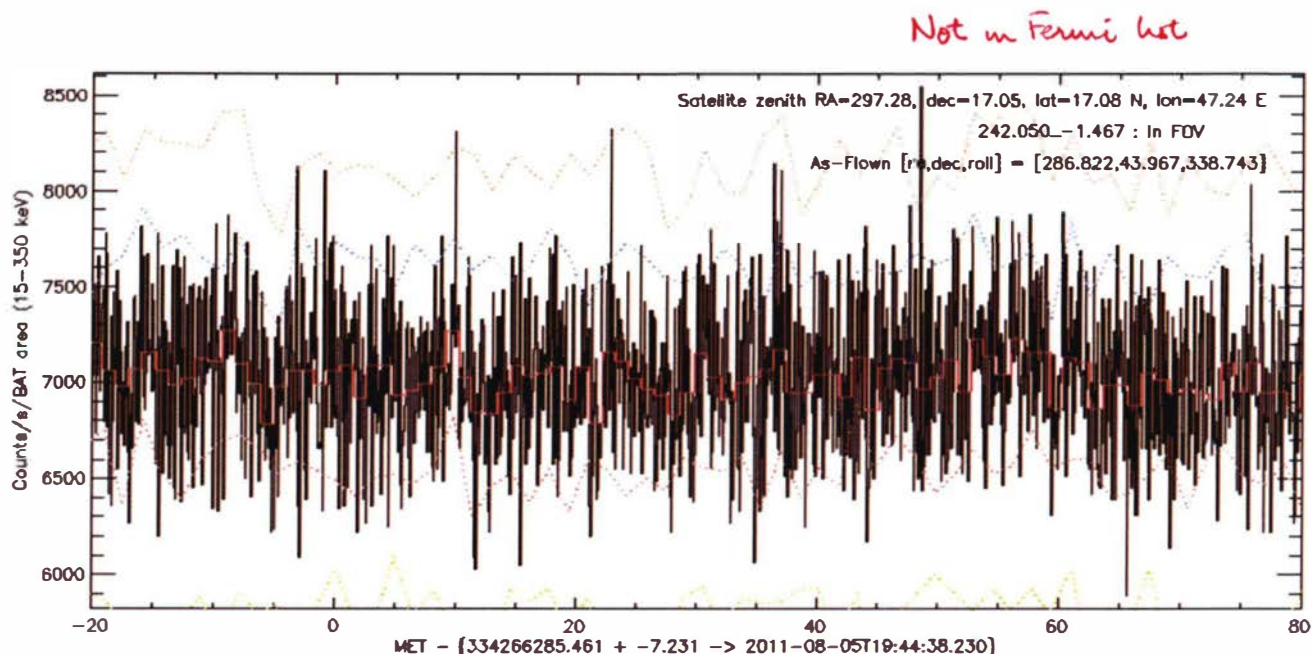
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 5 Aug 2011 23:39:51 -0600 (MDT)

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

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

/tmp/110805_1944.png



```
% /usr/local/bin/swinfo -o 334266285.461 -s 128.550_39.467
Time(MET + UTCF -> UT):      334266285.461 + -7.231 -> 2011-08-05T19:44:38.230
Swift Zenith(RA,dec):        297.28, 17.05
Swift Location(lon,lat,alt):  47.24 E, 17.08 N, 575 km
Obs Sequence Number:         00032042002
Obs Target Name:              MV Lyr
Obs Date and Times:           2011-08-05 19:34:54 - 19:45:49
Obs Pointing(ra,dec,roll):    286.822, 43.967, 338.74
128.550_39.467_imageloc (boresight_dist, angle): (94, -85)
128.550_39.467_exposure (cm2 cos adjusted): 0
128.550_39.467_altitude: -9 (down)

% /usr/local/bin/swinfo -o 334266285.461 -s 143.817_25.283
Time(MET + UTCF -> UT):      334266285.461 + -7.231 -> 2011-08-05T19:44:38.230
Swift Zenith(RA,dec):        297.28, 17.05
Swift Location(lon,lat,alt):  47.24 E, 17.08 N, 575 km
Obs Sequence Number:         00032042002
Obs Target Name:              MV Lyr
Obs Date and Times:           2011-08-05 19:34:54 - 19:45:49
Obs Pointing(ra,dec,roll):    286.822, 43.967, 338.74
143.817_25.283_imageloc (boresight_dist, angle): (103, -103)
143.817_25.283_exposure (cm2 cos adjusted): 0
143.817_25.283_altitude: -17 (down)

% /usr/local/bin/swinfo -o 334266285.461 -s 242.050_-1.467
Time(MET + UTCF -> UT):      334266285.461 + -7.231 -> 2011-08-05T19:44:38.230
Swift Zenith(RA,dec):        297.28, 17.05
Swift Location(lon,lat,alt):  47.24 E, 17.08 N, 575 km
Obs Sequence Number:         00032042002
Obs Target Name:              MV Lyr
Obs Date and Times:           2011-08-05 19:34:54 - 19:45:49
Obs Pointing(ra,dec,roll):    286.822, 43.967, 338.74
242.050_-1.467_imageloc (boresight_dist, angle): (60, 165)
242.050_-1.467_exposure (cm2 cos adjusted): 1
242.050_-1.467_altitude: 56 (up)
```

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

TSPA -- Automatically generated plot of publicly-available scientific data

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

/tmp/110805_1944.png	Content-Type: image/png
	Content-Encoding: base64

/tmp/110805_1944_bat64ms_ipn

/tmp/110805_1944_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

Subject: [lpn] BAT lightcurve for trigger at 110805_2205

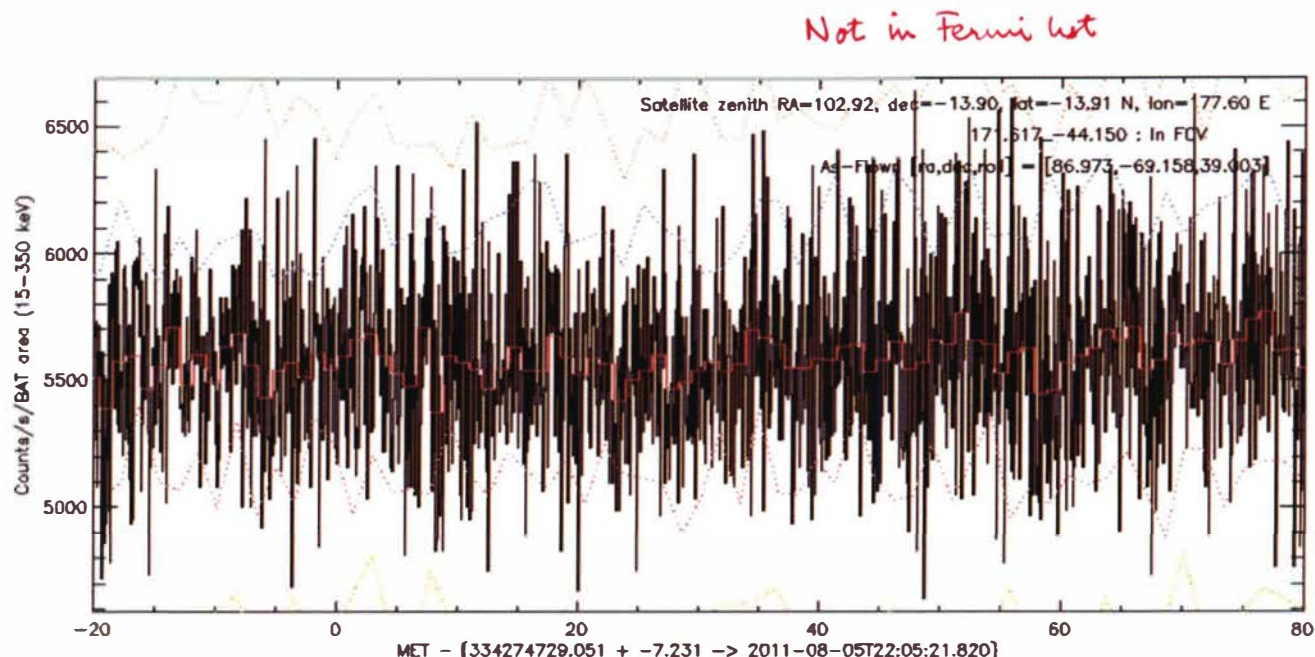
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 5 Aug 2011 23:39:51 -0600 (MDT)

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

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

/tmp/110805_2205.png



```
% /usr/local/bin/swinfo -o 334274729.051 -s 158.160_-38.390
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
158.160_-38.390_imageloc (boresight_dist, angle): (48, -40)
158.160_-38.390_exposure (cm2 cos adjusted): 844
158.160_-38.390_altitude: 60 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 161.120_-31.830
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
161.120_-31.830_imageloc (boresight_dist, angle): (55, -41)
161.120_-31.830_exposure (cm2 cos adjusted): 85
161.120_-31.830_altitude: 58 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 161.410_-34.110
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
161.410_-34.110_imageloc (boresight_dist, angle): (53, -40)
161.410_-34.110_exposure (cm2 cos adjusted): 314
161.410_-34.110_altitude: 58 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 163.533_-39.817
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
```

```

Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
163.533_-39.817_imageloc (boresight_dist, angle): (49, -34)
163.533_-39.817_exposure (cm2 cos adjusted): 979
163.533_-39.817_altitude: 55 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 163.920_-26.460
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
163.920_-26.460_imageloc (boresight_dist, angle): (61, -41)
163.920_-26.460_exposure (cm2 cos adjusted): 0
163.920_-26.460_altitude: 56 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 164.750_-32.940
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
164.750_-32.940_imageloc (boresight_dist, angle): (55, -37)
164.750_-32.940_exposure (cm2 cos adjusted): 206
164.750_-32.940_altitude: 55 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 167.200_-22.520
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
167.200_-22.520_imageloc (boresight_dist, angle): (66, -40)
167.200_-22.520_exposure (cm2 cos adjusted): 0
167.200_-22.520_altitude: 53 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 170.183_-35.183
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
170.183_-35.183_imageloc (boresight_dist, angle): (55, -31)
170.183_-35.183_exposure (cm2 cos adjusted): 402
170.183_-35.183_altitude: 50 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 170.483_-35.350
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
170.483_-35.350_imageloc (boresight_dist, angle): (55, -31)
170.483_-35.350_exposure (cm2 cos adjusted): 416
170.483_-35.350_altitude: 50 (up)

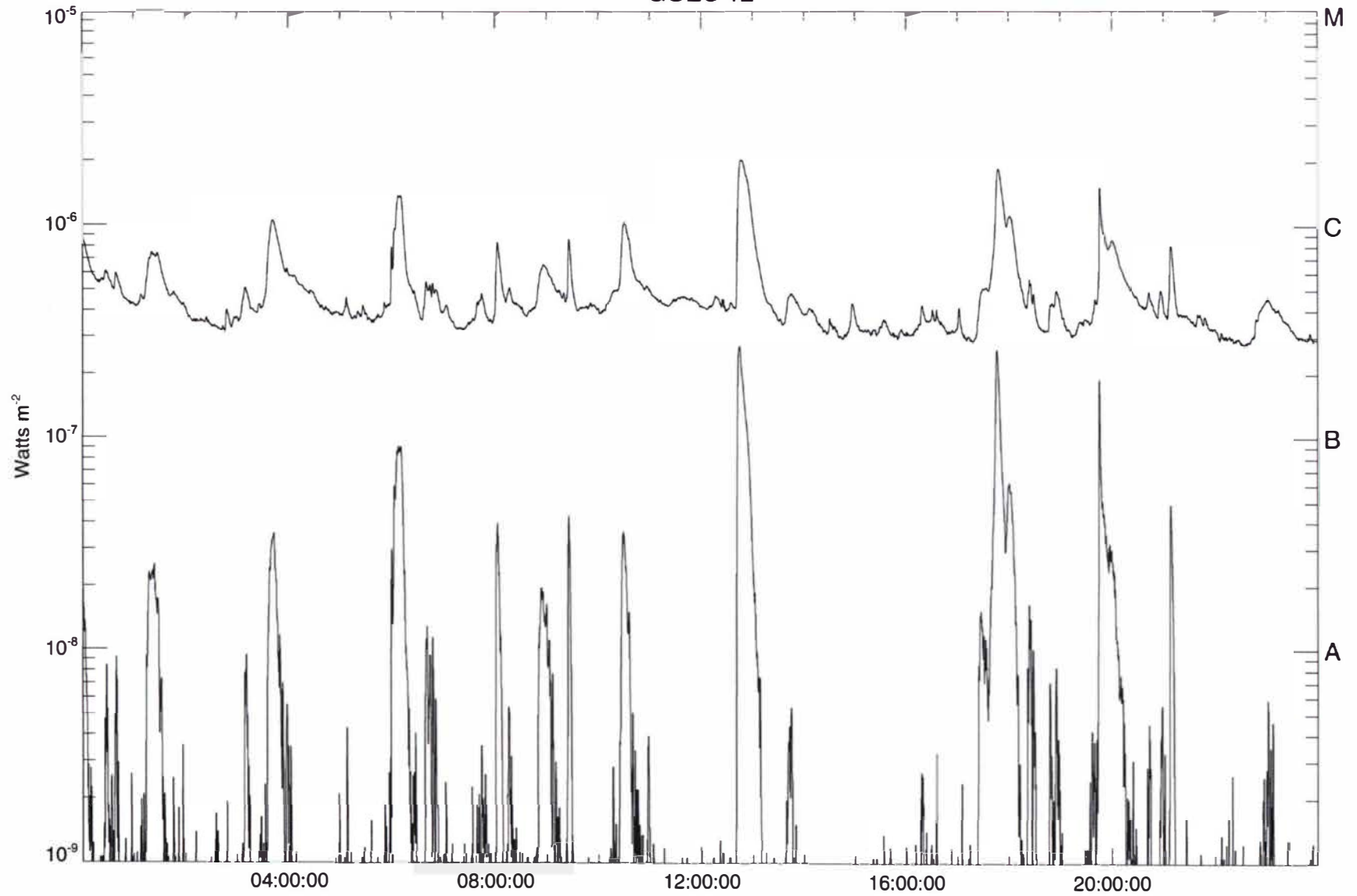
% /usr/local/bin/swinfo -o 334274729.051 -s 171.290_-37.930
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
171.290_-37.930_imageloc (boresight_dist, angle): (53, -28)
171.290_-37.930_exposure (cm2 cos adjusted): 672
171.290_-37.930_altitude: 49 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 171.400_-39.883
Time(MET + UTCF -> UT): 334274729.051 + -7.231 -> 2011-08-05T22:05:21.820
Swift Zenith(RA,dec): 102.92, -13.90
Swift Location(lon,lat,alt): 177.60 E, -13.91 N, 595 km
Obs Sequence Number: 00045446001
Obs Target Name: LMC_Survey_25
Obs Date and Times: 2011-08-05 21:56:54 - 22:25:50
Obs Pointing(ra,dec,roll): 86.973, -69.158, 39.00
171.400_-39.883_imageloc (boresight_dist, angle): (51, -27)
171.400_-39.883_exposure (cm2 cos adjusted): 895
171.400_-39.883_altitude: 49 (up)

% /usr/local/bin/swinfo -o 334274729.051 -s 171.617_-44.150

```


GOES 12



Data Start: 11/08/05, 0000:09

Plot created: 11/08/08, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

SUZAKU

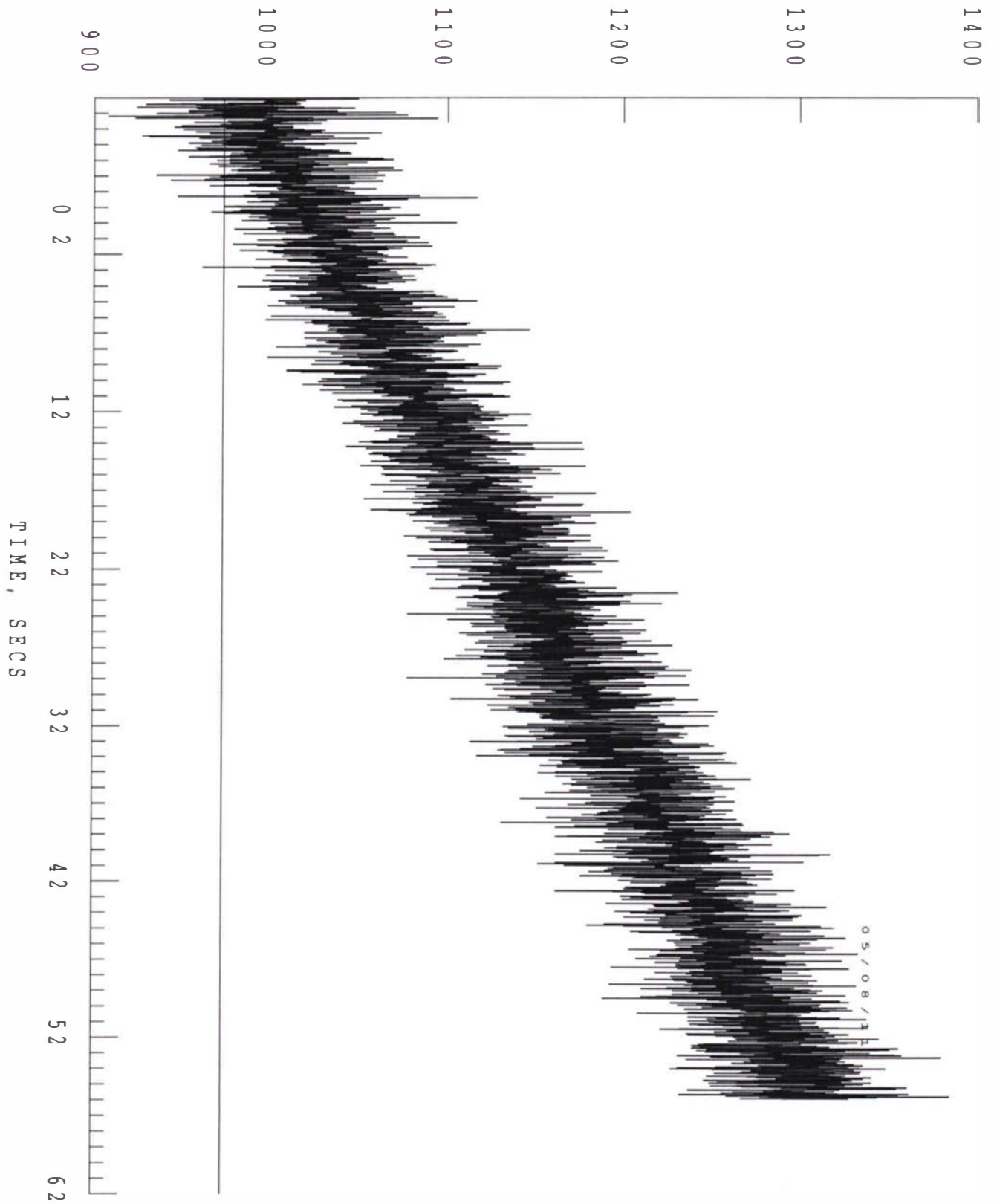
06/08/11

4065.146

50 - 240 keV

Not in Suzaku list

COUNTS/0.016 S

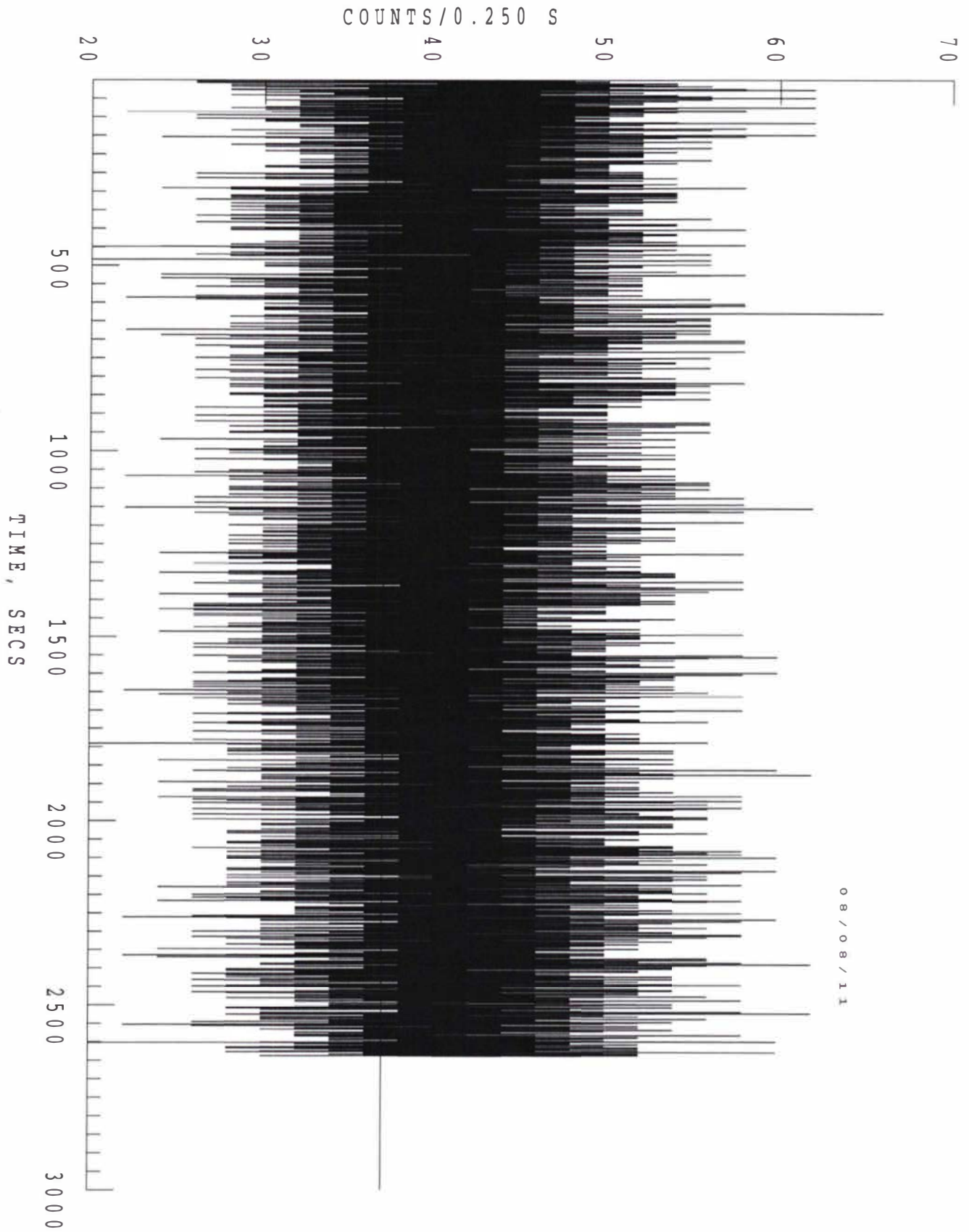


MS01

06/08/11

2727.080

50 - 3000 keV

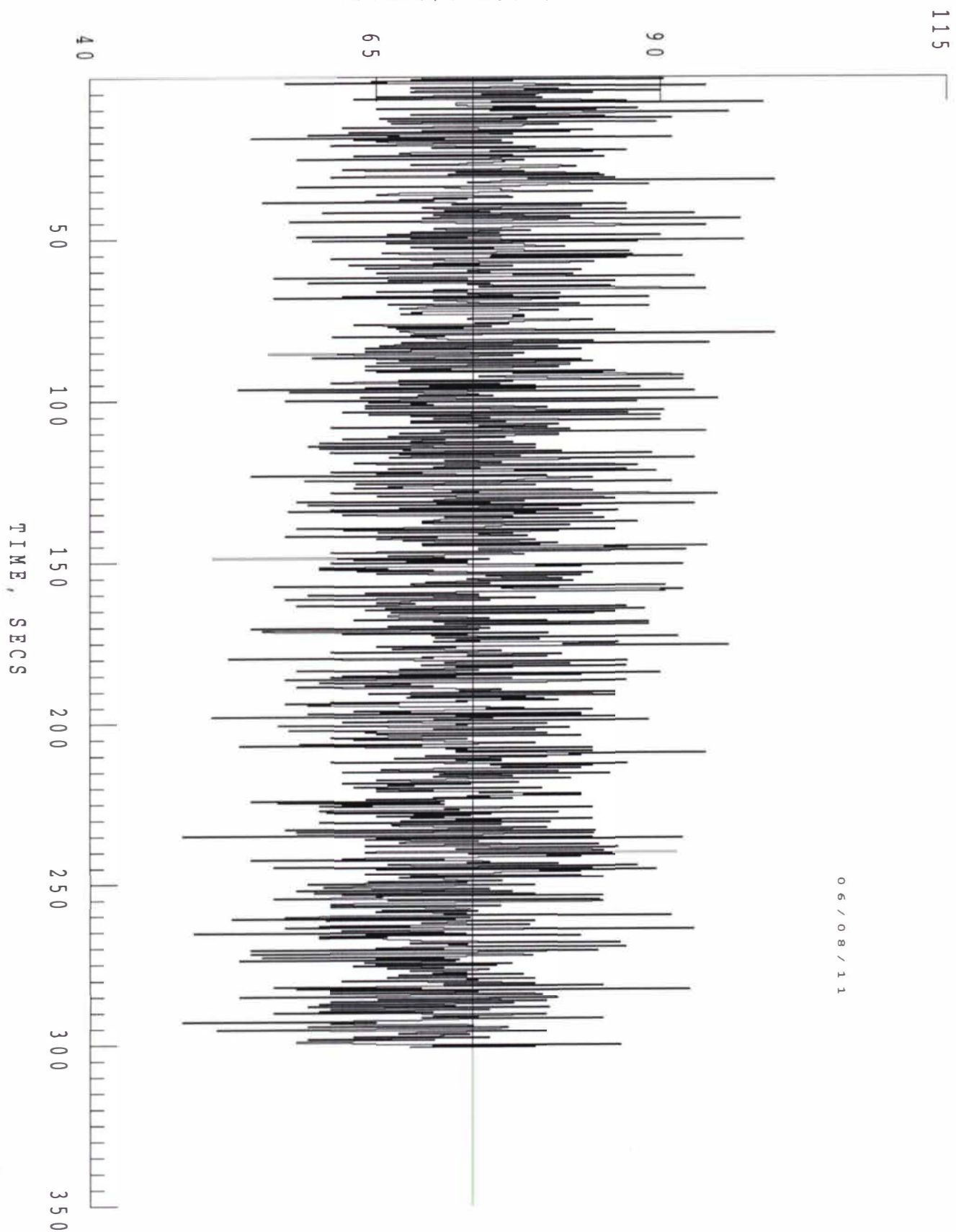


HESSI

06/08/11 3914.000 (SUZAKU_20110806_04065)

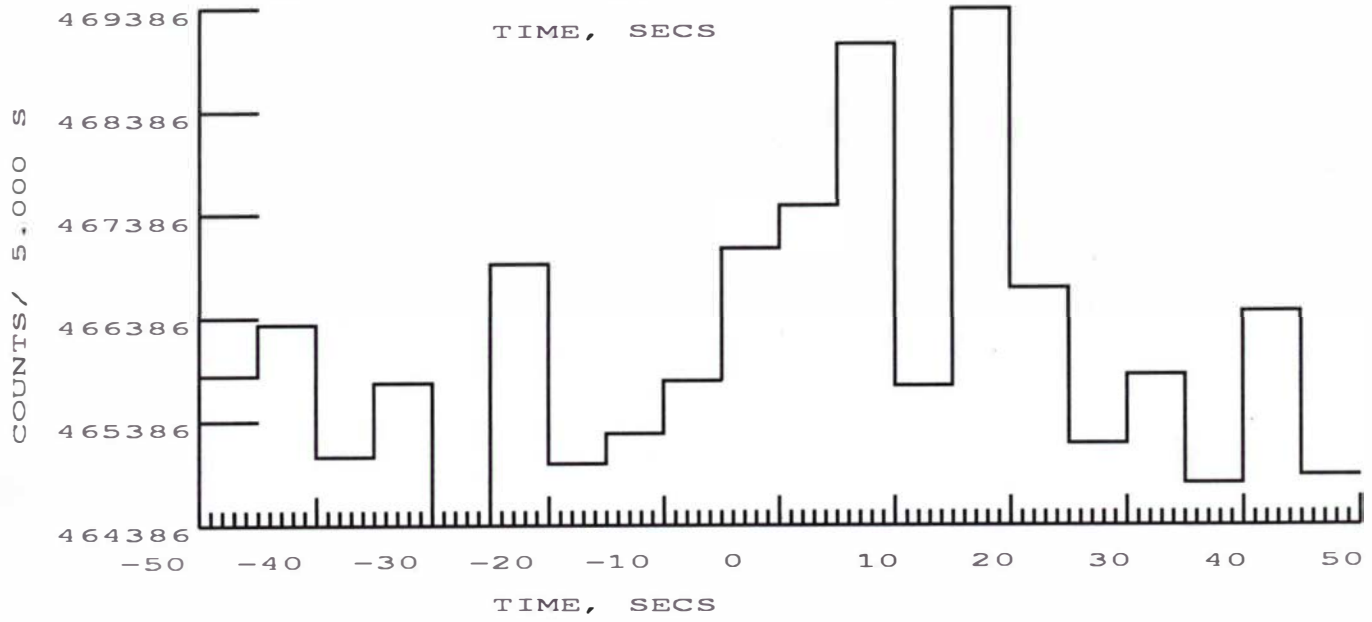
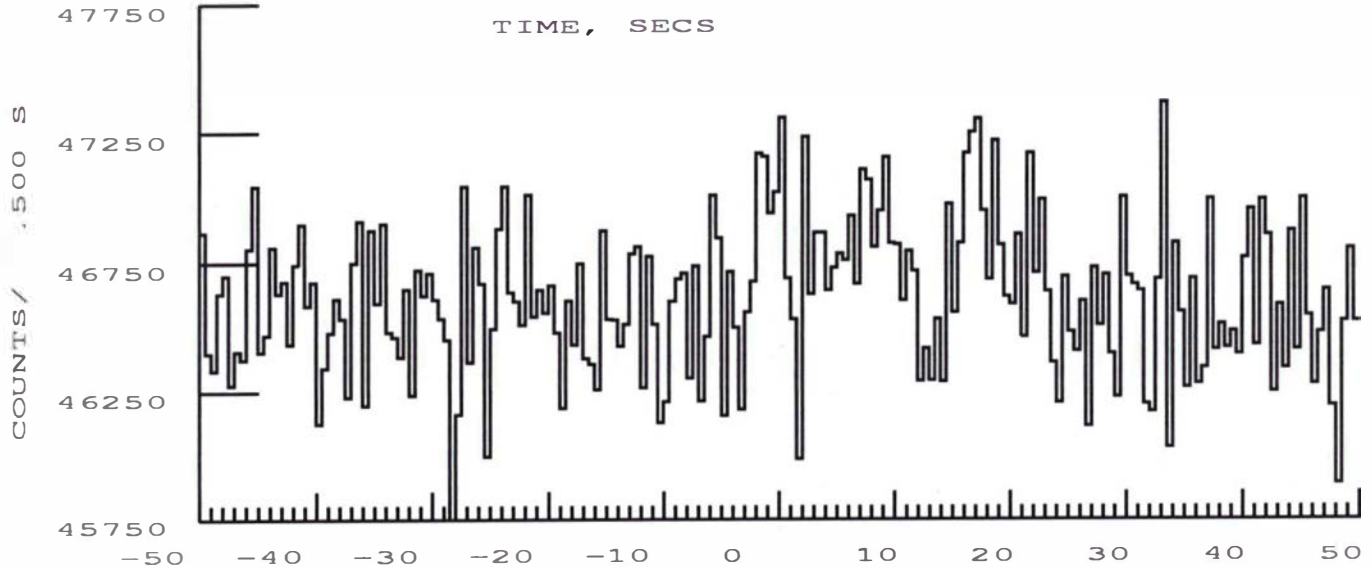
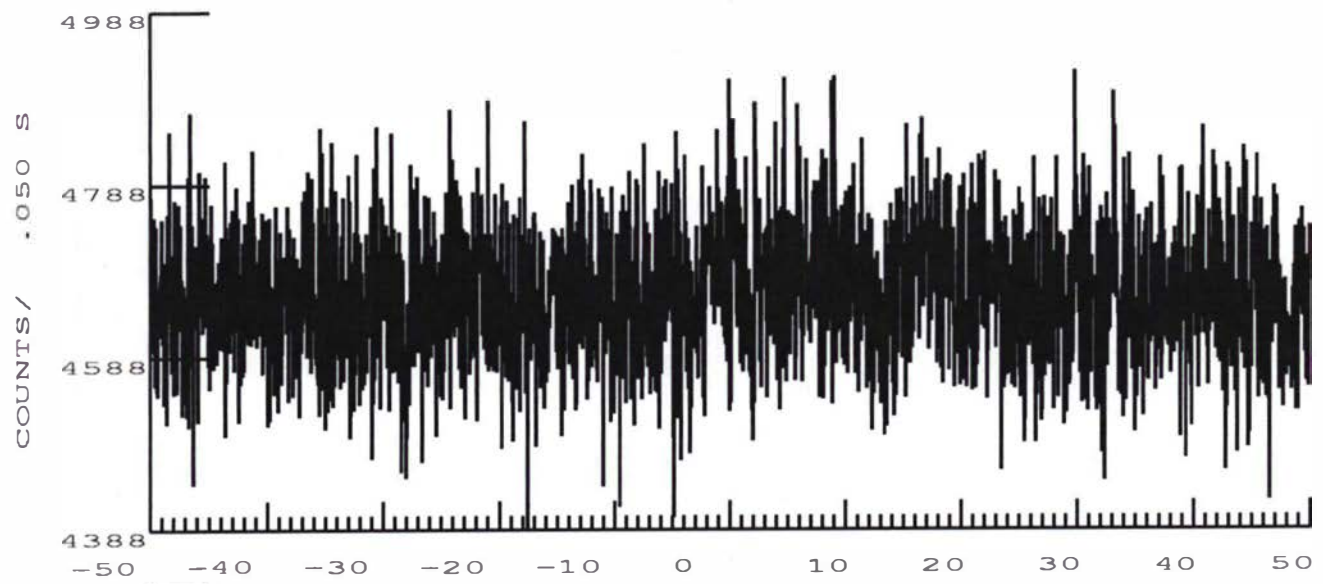
25- 150 keV

COUNTS/0.250 S



A

INTEGRAL 06/08/11 80731.000 22:25:31.0 20/01/14

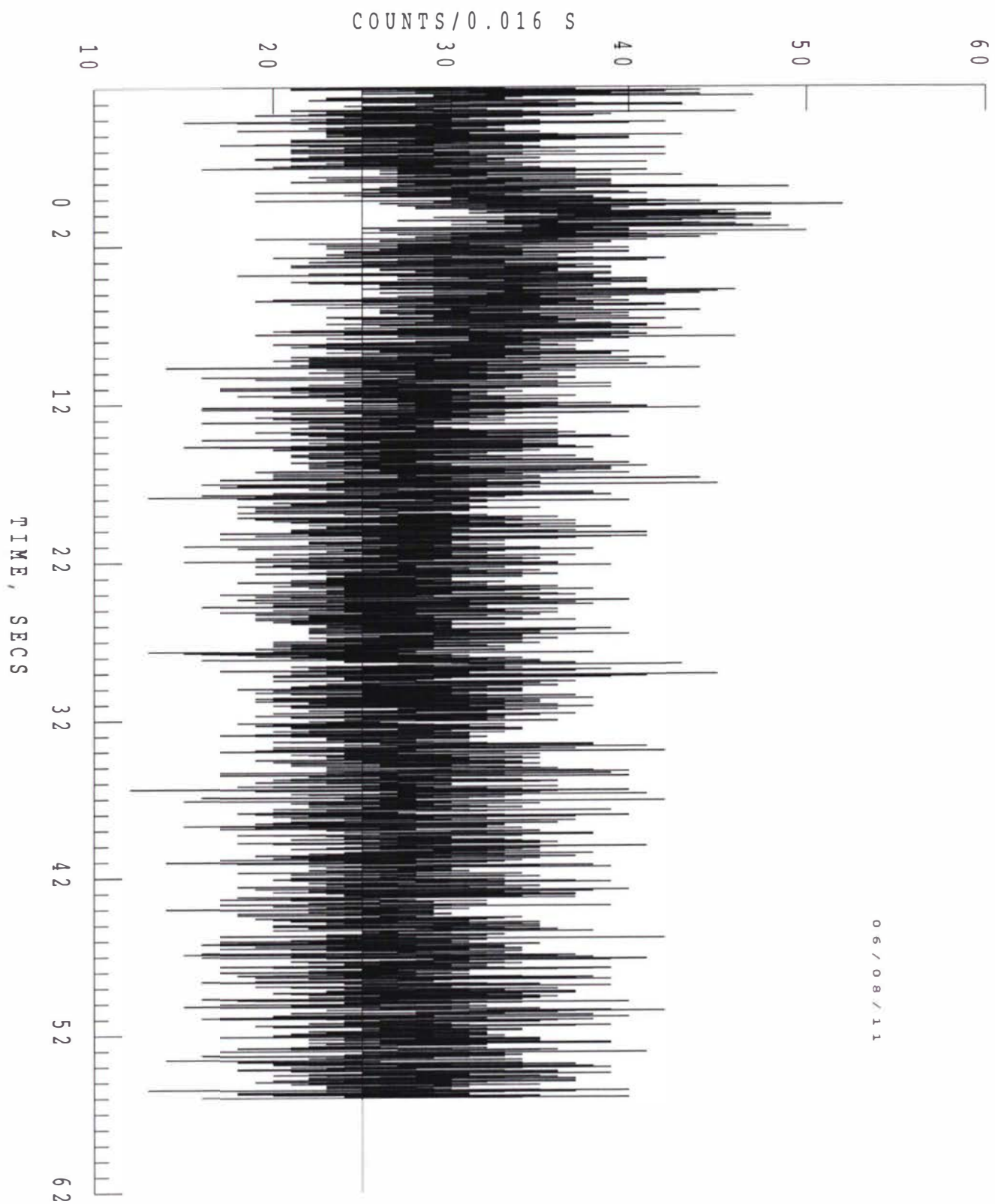


SUZAKU

06/08/11

80748.134

50 - 240 keV



A

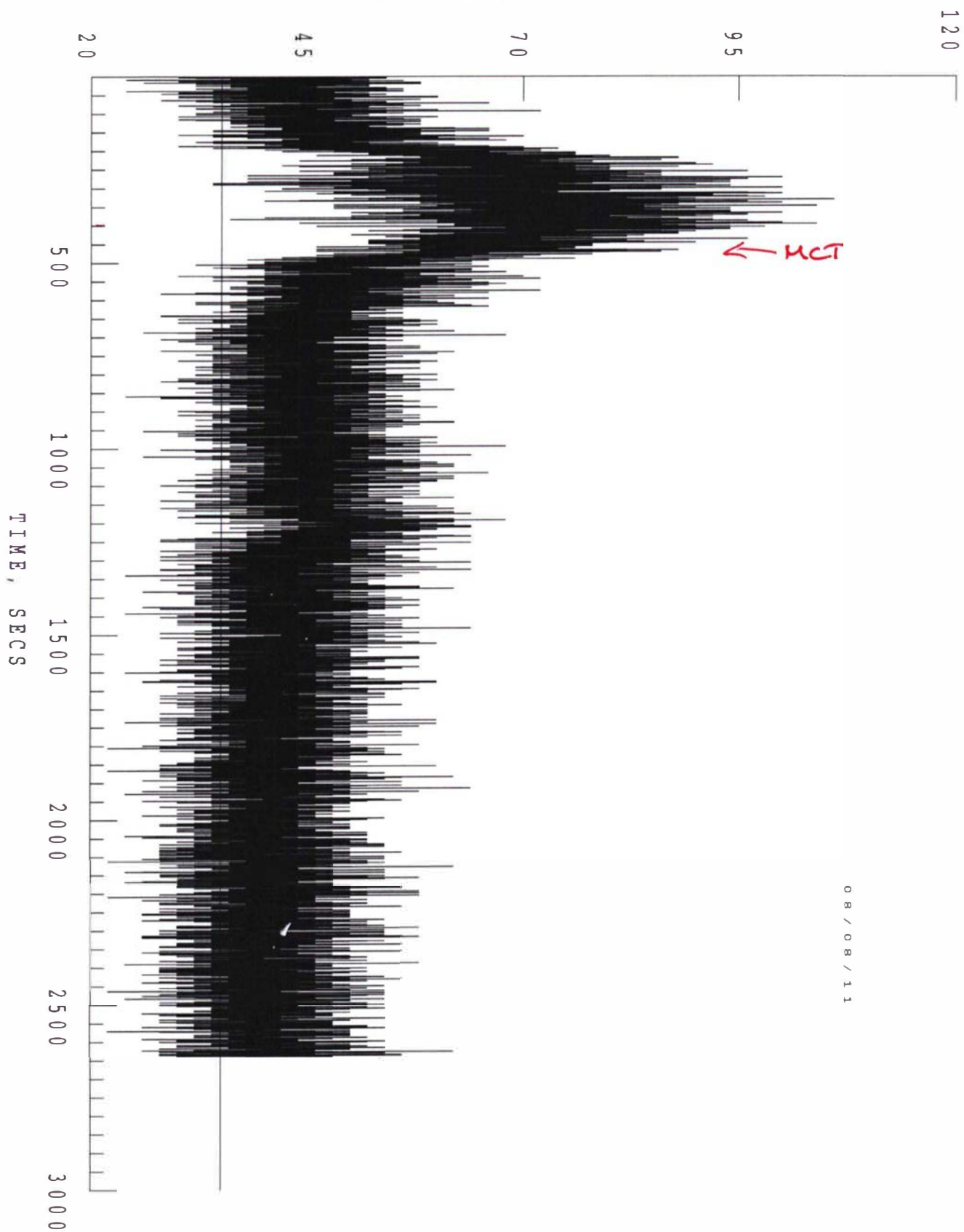
MS01

06/08/11

79405.719

50 - 3000 keV

COUNTS/0.250 S

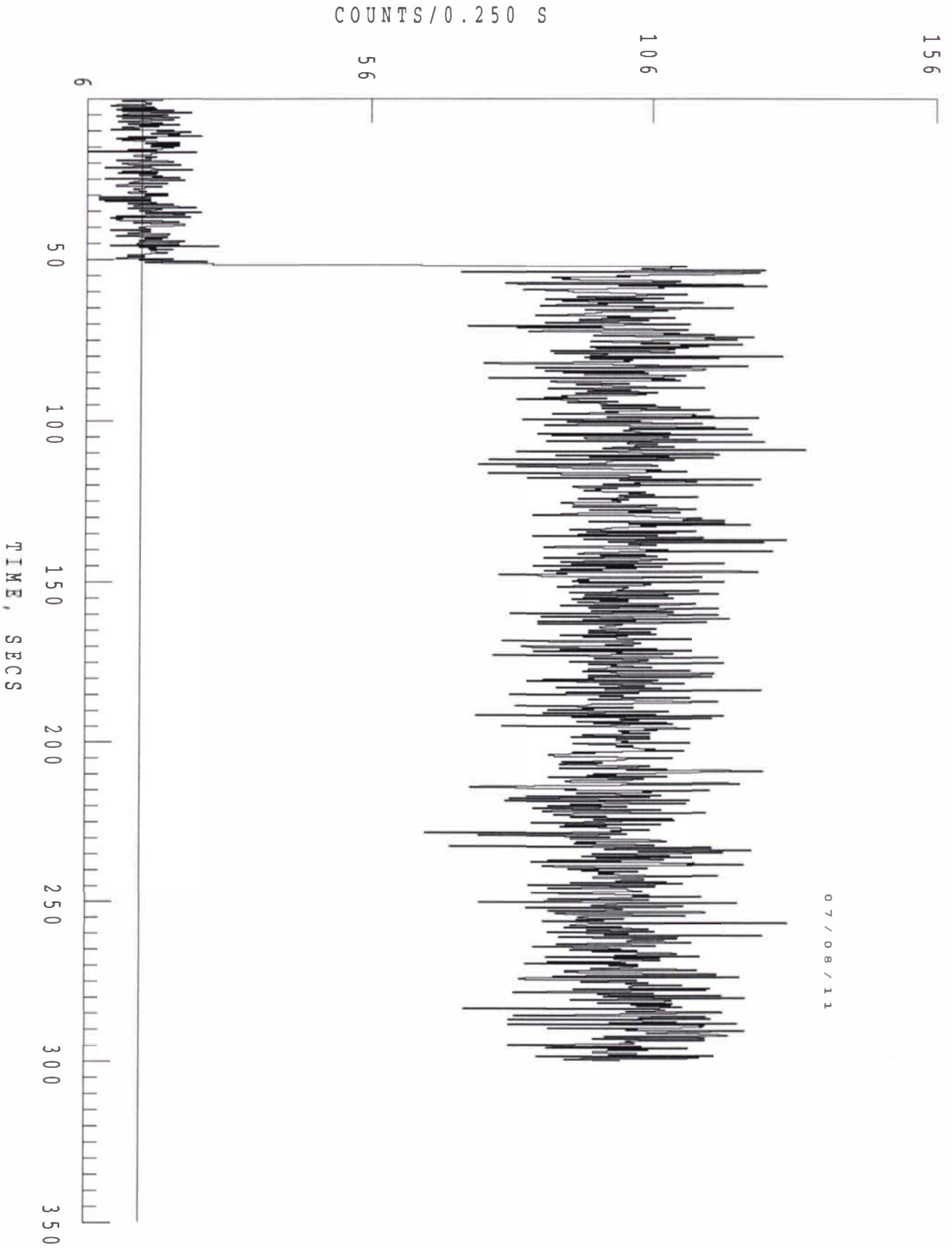


HESSI

06/08/11 80598.000 (SUZAKU_20110806_80748)

A

25 - 150 keV



Subject: [lbn] BAT lightcurve for trigger at 110806_2225

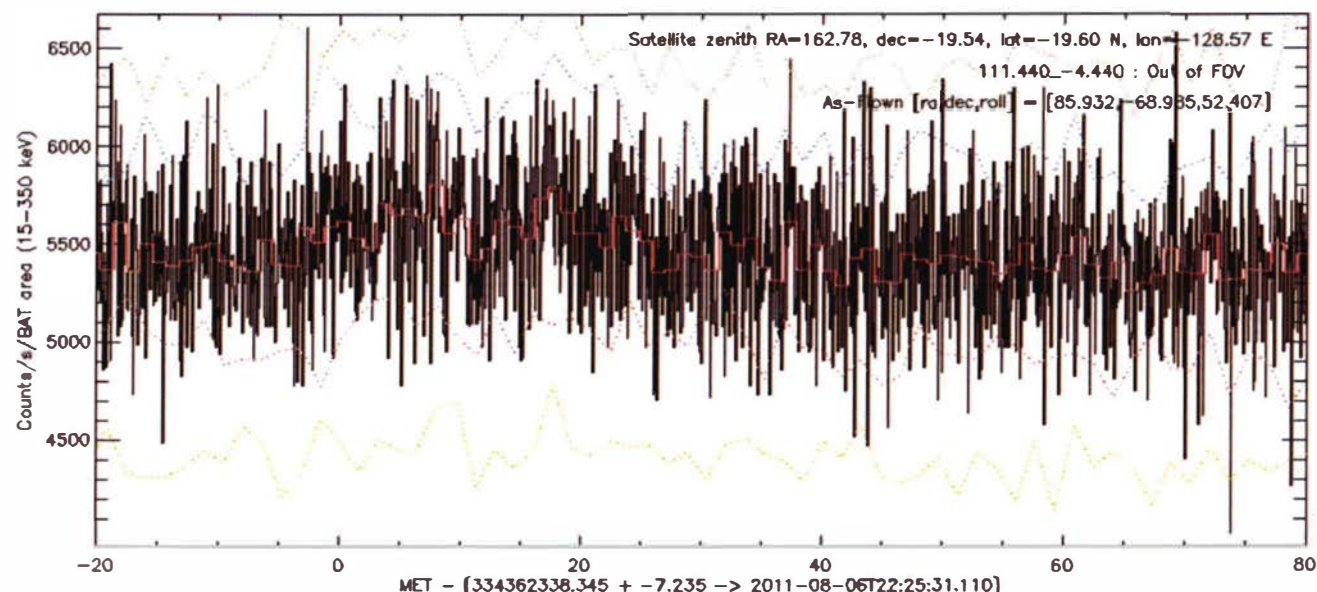
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 6 Aug 2011 21:38:45 -0600 (MDT)

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

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

/tmp/110806_2225.png



80731

```
% /usr/local/bin/swinfo -o 334362338.345 -s 104.067_-14.167
Time(MET + UTCF -> UT): 334362338.345 + -7.235 -> 2011-08-06T22:25:31.110
Swift Zenith(RA,dec): 162.78, -19.54
Swift Location(lon,lat,alt): -128.57 E, -19.60 N, 589 km
Obs Sequence Number: 00045428001
Obs Target Name: LMC_Survey_7
Obs Date and Times: 2011-08-06 22:02:54 - 22:26:49
Obs Pointing(ra,dec,roll): 85.932, -68.985, 52.41
104.067_-14.167_imageloc (boresight_dist, angle): (56, -121)
104.067_-14.167_exposure (cm^2 cos adjusted): 0
104.067_-14.167_altitude: 58 (up)
```

```
% /usr/local/bin/swinfo -o 334362338.345 -s 108.040_7.170
Time(MET + UTCF -> UT): 334362338.345 + -7.235 -> 2011-08-06T22:25:31.110
Swift Zenith(RA,dec): 162.78, -19.54
Swift Location(lon,lat,alt): -128.57 E, -19.60 N, 589 km
Obs Sequence Number: 00045428001
Obs Target Name: LMC_Survey_7
Obs Date and Times: 2011-08-06 22:02:54 - 22:26:49
Obs Pointing(ra,dec,roll): 85.932, -68.985, 52.41
108.040_7.170_imageloc (boresight_dist, angle): (78, -120)
108.040_7.170_exposure (cm^2 cos adjusted): 0
108.040_7.170_altitude: 54 (up)
```

```
% /usr/local/bin/swinfo -o 334362338.345 -s 108.550_-5.800
Time(MET + UTCF -> UT): 334362338.345 + -7.235 -> 2011-08-06T22:25:31.110
Swift Zenith(RA,dec): 162.78, -19.54
Swift Location(lon,lat,alt): -128.57 E, -19.60 N, 589 km
Obs Sequence Number: 00045428001
Obs Target Name: LMC_Survey_7
Obs Date and Times: 2011-08-06 22:02:54 - 22:26:49
Obs Pointing(ra,dec,roll): 85.932, -68.985, 52.41
108.550_-5.800_imageloc (boresight_dist, angle): (65, -117)
108.550_-5.800_exposure (cm^2 cos adjusted): 0
108.550_-5.800_altitude: 59 (up)
```

```
% /usr/local/bin/swinfo -o 334362338.345 -s 111.440_-4.440
Time(MET + UTCF -> UT): 334362338.345 + -7.235 -> 2011-08-06T22:25:31.110
Swift Zenith(RA,dec): 162.78, -19.54
```

[Ipn] BAT lightcurve for trigger at I10806_2225

Swift Location(lon,lat,alt): -128.57 E, -19.60 N, 589 km
Obs Sequence Number: 00045428001
Obs Target Name: LMC_Survey_7
Obs Date and Times: 2011-08-06 22:02:54 - 22:26:49
Obs Pointing(ra,dec,roll): 85.932, -68.985, 52.41
111.440_-4.440_imageloc (boresight_dist, angle): (67, -115)
111.440_-4.440_exposure (cm² cos adjusted): 0
111.440_-4.440_altitude: 62 (up)

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

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

/tmp/110806_2225.png	Content-Type: image/png
	Content-Encoding: base64

/tmp/110806_2225_bat64ms_ipn

/tmp/110806_2225_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

GLAST

06/08/11

80731.115

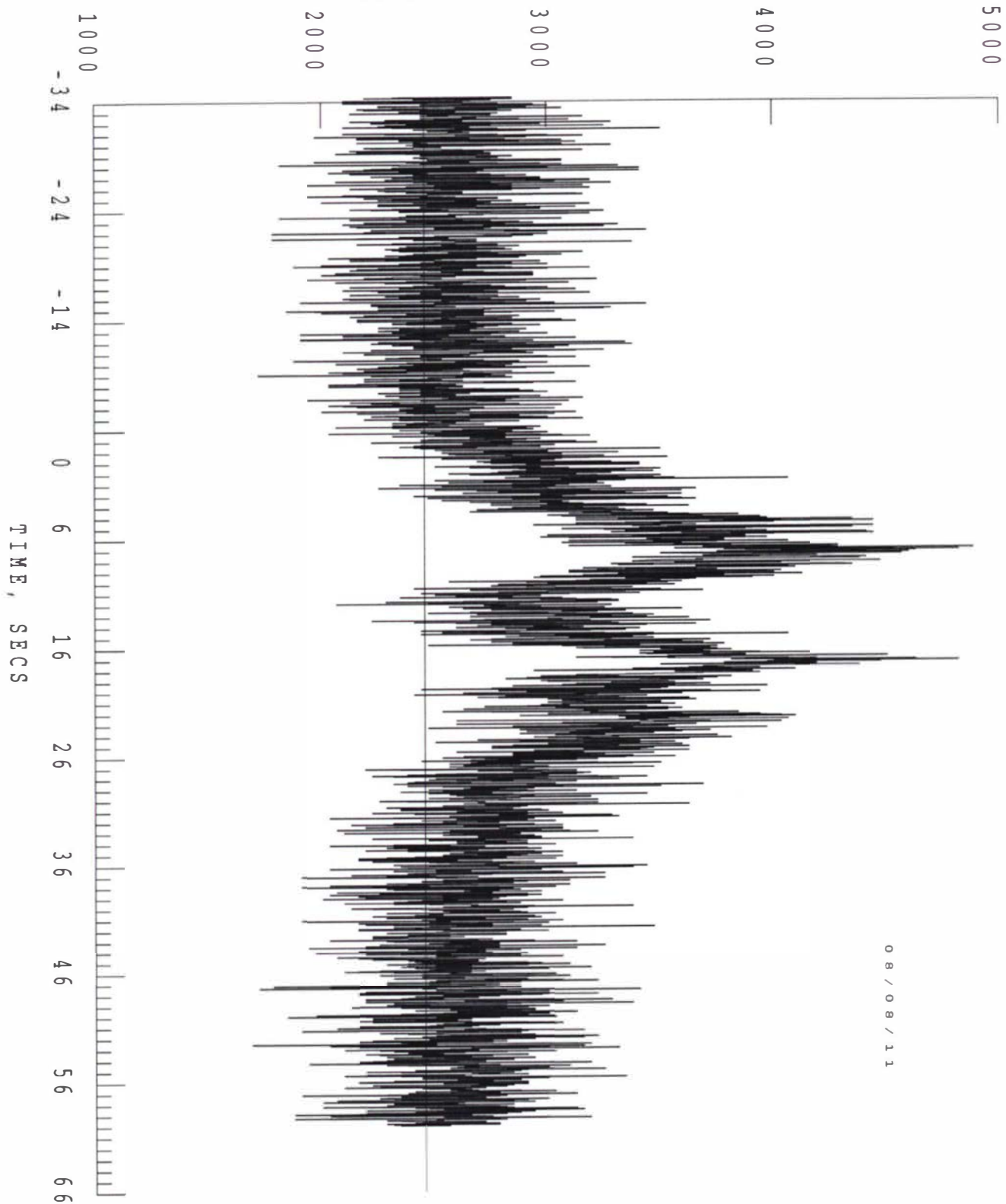
22:25:31

A

26- 293 keV

112.04 2.38 2.42

COUNTS/0.032 S



B

GLAST

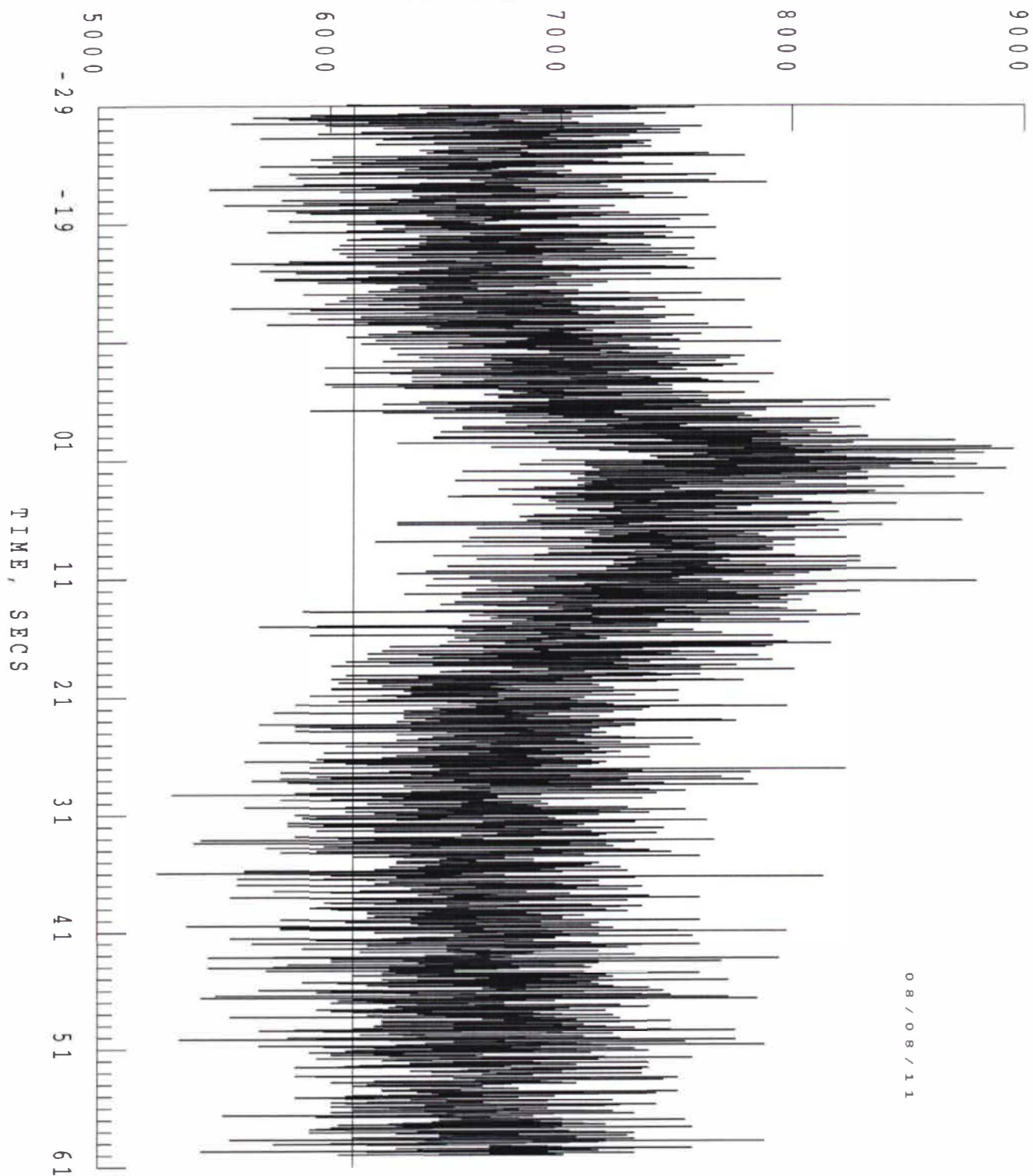
06/08/11

85746.924

26 - 293 keV

Particles

COUNTS/0.032 S



MS01

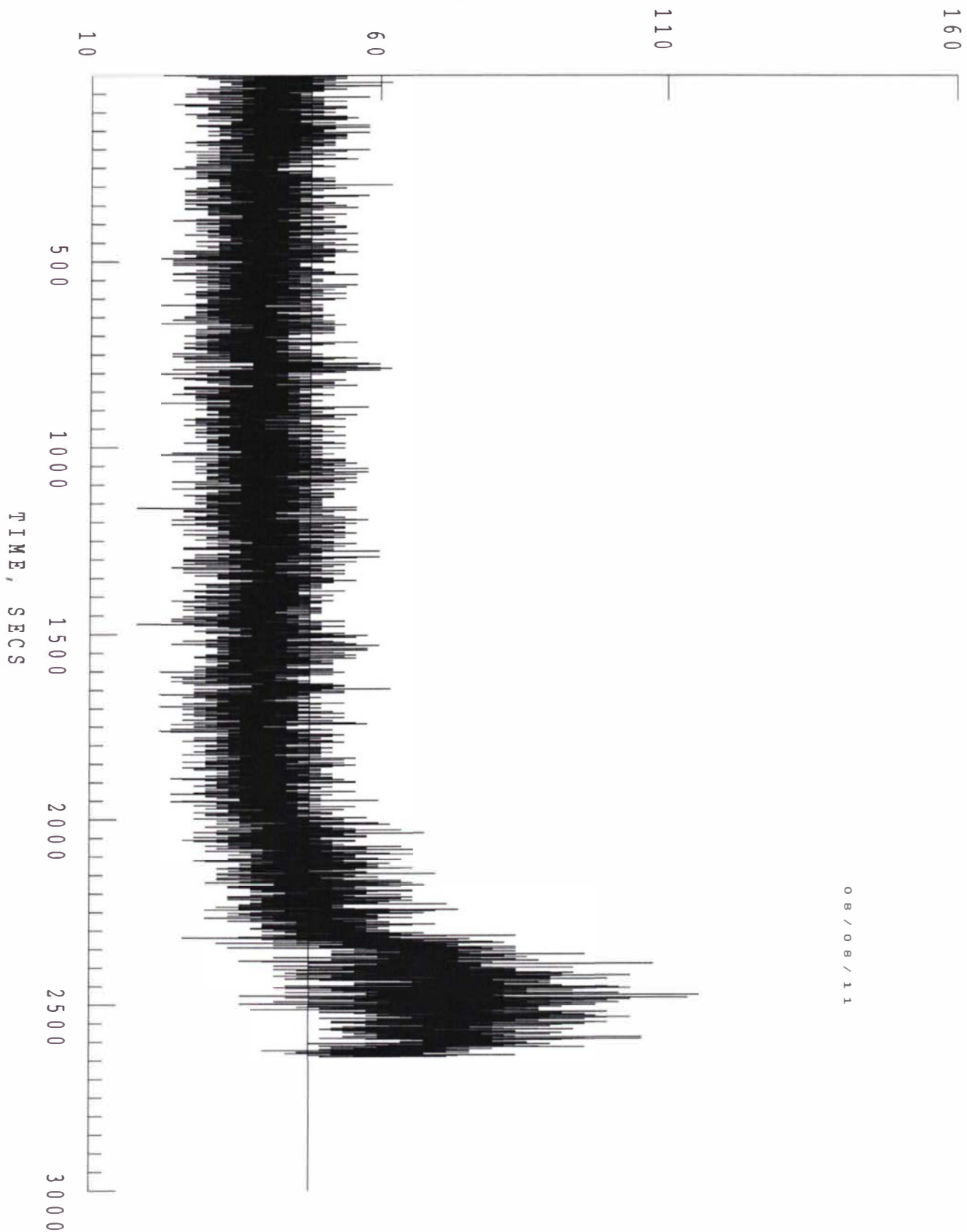
06/08/11

84385.627

B

50 - 3000 keV

COUNTS/0.250 S



B

HESSI

06/08/11 85595.000 (GLAST_20110806_85746)

25- 150 keV

COUNTS/0.250 S

109

159

59

9

50

100

150

200

250

300

350

TIME, SECS

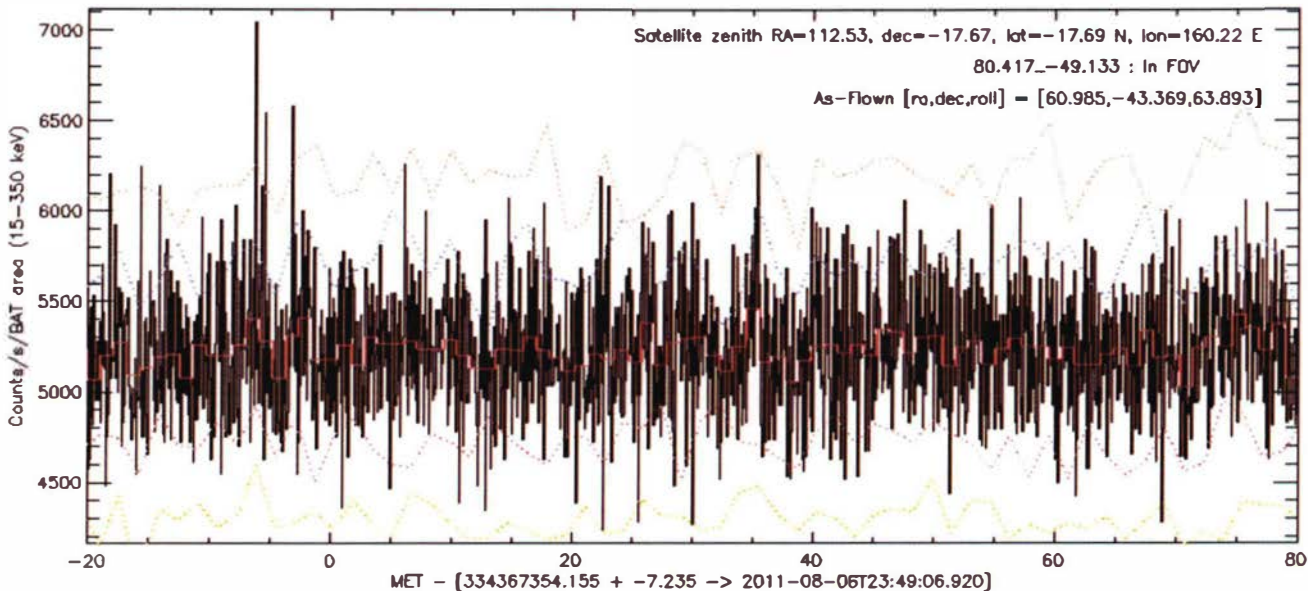
08/08/11

B

Subject: [lpn] BAT lightcurve for trigger at 110806_2349
From: palmer+automatic_lightcurve@lanl.gov
Date: Sun, 7 Aug 2011 01:22:32 -0600 (MDT)
To: gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/110806_2349.png



85746

```
% /usr/local/bin/swinfo -o 334367354.155 -s 80.417_-49.133
Time(MET + UTCF -> UT): 334367354.155 + -7.235 -> 2011-08-06T23:49:06.920
Swift Zenith(RA,dec): 112.53, -17.67
Swift Location(lon,lat,alt): 160.22 E, -17.69 N, 596 km
Obs Sequence Number: 00045603005
Obs Target Name: NGC 1512
Obs Date and Times: 2011-08-06 23:38:54 - 23:59:51
Obs Pointing(ra,dec,roll): 60.985, -43.369, 63.89
80.417_-49.133_imageloc (boresight_dist, angle): (15, -34)
80.417_-49.133_exposure (cm^2 cos adjusted): 4224
80.417_-49.133_altitude: 73 (up)
```

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

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

/tmp/110806_2349_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110806_2349.png

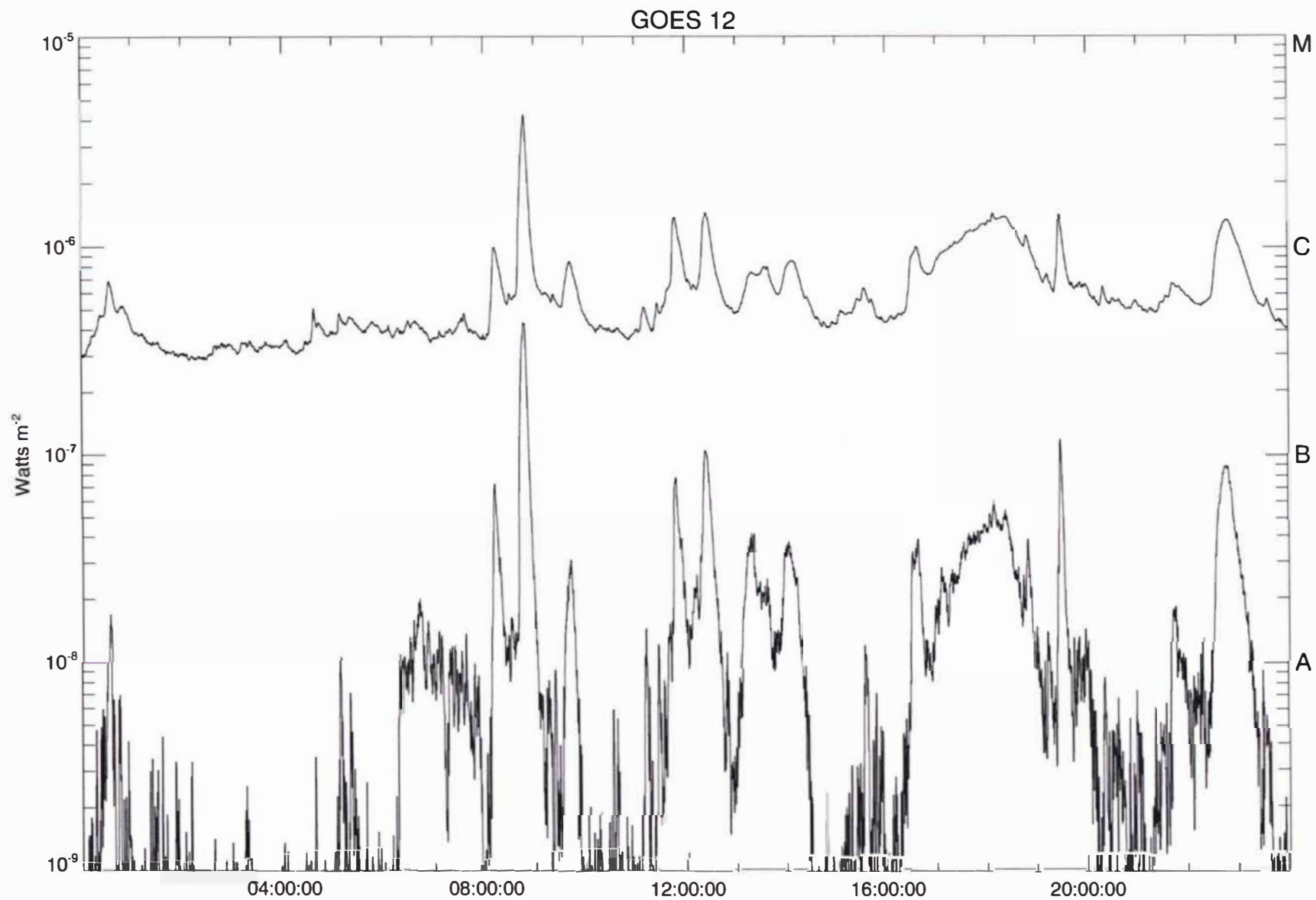
/tmp/110806_2349.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit



Data Start: 11/08/06, 0000:09

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 11/08/09, 0832

Sample average = 10

From vxw@capella2.gsfc.nasa.gov Sun Aug 7 13:00:57 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Sun, 7 Aug 2011 16:01:33 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 027c3c0156fc0749bc3db456872a84a75f8508bc
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Sun 07 Aug 11 20:01:32 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 458907, Seg Num: 0
GRB_RA: 278.696d {+18h 34m 47s} (J2000),
278.855d {+18h 35m 25s} (current),
278.013d {+18h 32m 03s} (1950)
GRB_DEC: -8.760d {-08d 45' 35"} (J2000),
-8.750d {-08d 45' 00"} (current),
-8.800d {-08d 48' 01"} (1950)
GRB_DATE: 15780 TJD; 219 DOY; 11/08/07
GRB_TIME: 71866.37 SOD {19:57:46.37} UT
TRIGGER_INDEX: 10318
GRB_PHI: 23.68 [deg]
GRB_THETA: 19.83 [deg]
DELTA_TIME: 0.00 [sec]
TRIGGER_DUR: 0.032 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 18.94 [sigma]
IMAGE_SIGNIF: 7.65 [sigma]
URL: sw00458907000msb.lc
SUN_POSTN: 137.44d {+09h 09m 45s} +16.34d {+16d 20' 36"}
SUN_DIST: 141.65 [deg] Sun_angle= -9.4 [hr] (East of Sun)
MOON_POSTN: 240.30d {+16h 01m 12s} -22.43d {-22d 25' 47"}
MOON_DIST: 39.42 [deg]
MOON_ILLUM: 65 [%]
GAL_COORDS: 23.25, -0.32 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 278.88, 14.41 [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 = 55.08,20.31 [deg]

A

From gncirc@capella2.gsfc.nasa.gov Sun Aug 7 13:21:45 2011
X-Barracuda-Envelope-From: gncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gncirc@capella2.gsfc.nasa.gov>
Subject: GRB 110807A: Swift detection of a burst or a posible new SGR
To: khurley@ssl.berkeley.edu
Date: Sun, 7 Aug 2011 16:22:19 -0400 (EDT)
X-Ucb-Scan-Signature: b3e0d6ce07be07c2589f89598daelcb944b133d1
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 12253
SUBJECT: GRB 110807A: Swift detection of a burst or a posible new SGR
DATE: 11/08/07 20:22:17 GMT
FROM: Scott Barthelmy at NASA/GSFC <scott@milkyway.gsfc.nasa.gov>

V. D'Elia (ASDC), S. D. Barthelmy (GSFC),
W. H. Baumgartner (GSFC/UMBC), A. P. Beardmore (U Leicester),
M. M. Chester (PSU), C. Guidorzi (U Ferrara),
S. T. Holland (CRESST/USRA/GSFC), N. P. M. Kuin (UCL-MSSL),
C. B. Markwardt (NASA/GSFC), F. E. Marshall (NASA/GSFC),
A. Melandri (INAF-OAB), D. M. Palmer (LANL), C. J. Saxton (UCL-MSSL),
G. Stratta (ASDC), C. A. Swenson (PSU) and T. N. Ukwatta (MSU) report
on behalf of the Swift Team:

At 19:57:46 UT, the Swift Burst Alert Telescope (BAT) triggered and
located GRB 110807A (trigger=458907). Swift slewed immediately to the burst.
The BAT on-board calculated location is

RA, Dec 278.696, -8.760 which is

RA(J2000) = 18h 34m 47s

Dec(J2000) = -08d 45' 35"

with an uncertainty of 3 arcmin (radius, 90% containment, including
systematic uncertainty). The BAT light curve shows a single timebin spike
structure with a duration of less than 0.064 sec. The peak count rate
was ~3500 counts/sec (15-350 keV), at ~0 sec after the trigger.

The XRT began observing the field at 20:03:13.2 UT, 326.8 seconds after
the BAT trigger. Using promptly downlinked data we find an X-ray source
located at RA, Dec 278.71751, -8.76597 which is equivalent to:

RA(J2000) = 18h 34m 52.20s

Dec(J2000) = -08d 45' 57.5"

with an uncertainty of 3.7 arcseconds (radius, 90% containment). This
location is 79 arcseconds from the BAT onboard position, within the BAT
error circle. This position may be improved as more data are received;
the latest position is available at <http://www.swift.ac.uk/sper>. We
cannot determine whether the source is fading at the present time. This
position is 6.6 arcseconds from that of a known X-ray source: 2XMM
J183452.4-084603 in the XMM-NEWTON XMMSSC catalogue.

A power-law fit to a spectrum formed from promptly downlinked event
data does not constrain the column density.

UVOT took a finding chart exposure of 150 seconds with the White filter
starting 332 seconds after the BAT trigger. No credible afterglow candidate has
been found in the initial data products. The 2.7'x2.7' sub-image covers 100% of
the XRT error circle. The typical 3-sigma upper limit has been about 19.6 mag.
The 8'x8' region for the list of sources generated on-board covers 100% of the
XRT error circle. The list of sources is typically complete to about 18 mag. No
correction has been made for the large, but uncertain extinction expected.

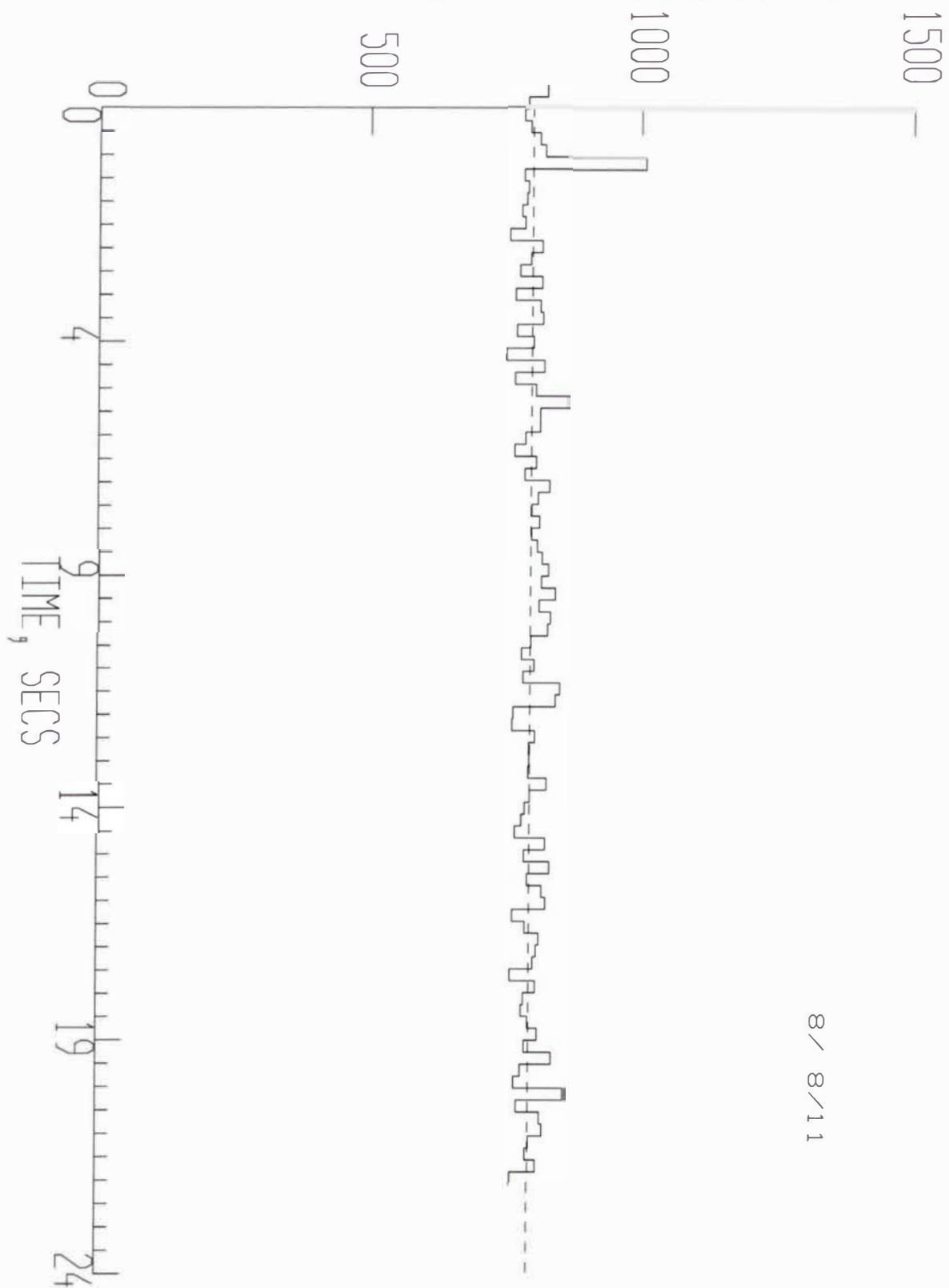
Due to the short, soft nature of the burst, and the proximity of the source to the Galactic plane (0.3 degrees) we suggest that this source may be a previously unknown Soft Gamma Repeater. Verification of this could come if a second burst is seen or the XRT counterpart shows periodicity.

Burst Advocate for this burst is V. D'Elia (delia AT asdc.asi.it). Please contact the BA by email if you require additional information regarding Swift followup of this burst. In extremely urgent cases, after trying the Burst Advocate, you can contact the Swift PI by phone (see Swift TOO web site for information: <http://www.swift.psu.edu/too.html>.)

SWIFT 07/08/11 71866.375

25- 100 keV

COUNTS/0.256 S



A

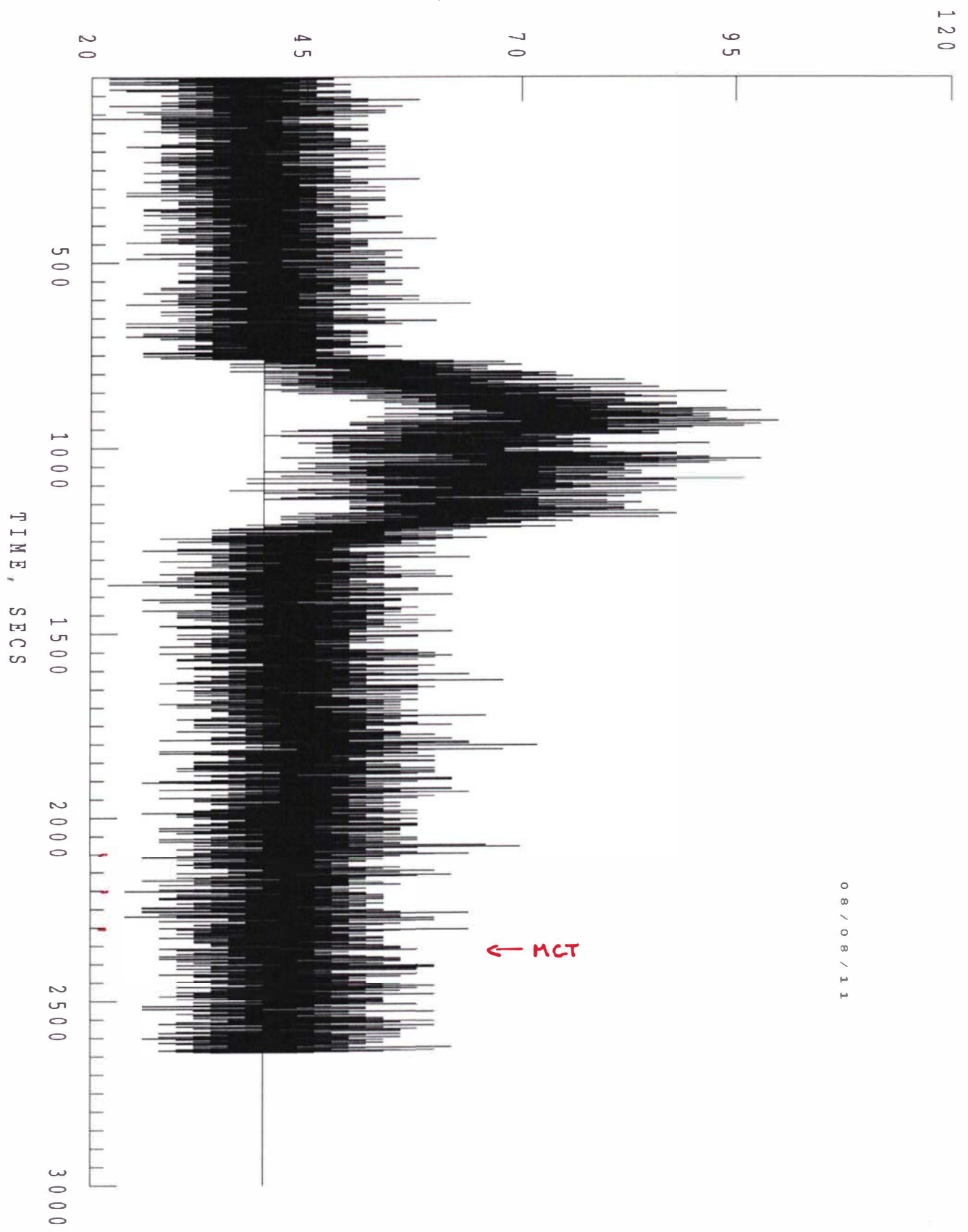
MS01

07/08/11

70524.416

50 - 3000 keV

COUNTS/0.250 S



08/08/11

From williams@gammaburst.ssl.berkeley.edu Fri Aug 12 23:03:10 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Fri, 12 Aug 2011 23:02:23 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SWIFT_20110807_71866
X-Ucb-Scan-Signature: 126ebac4b5c74c54ca0baae6f01f9f6f90962330
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.812'
X-Ucb-Notice: This message has been processed by a spam tagging system.

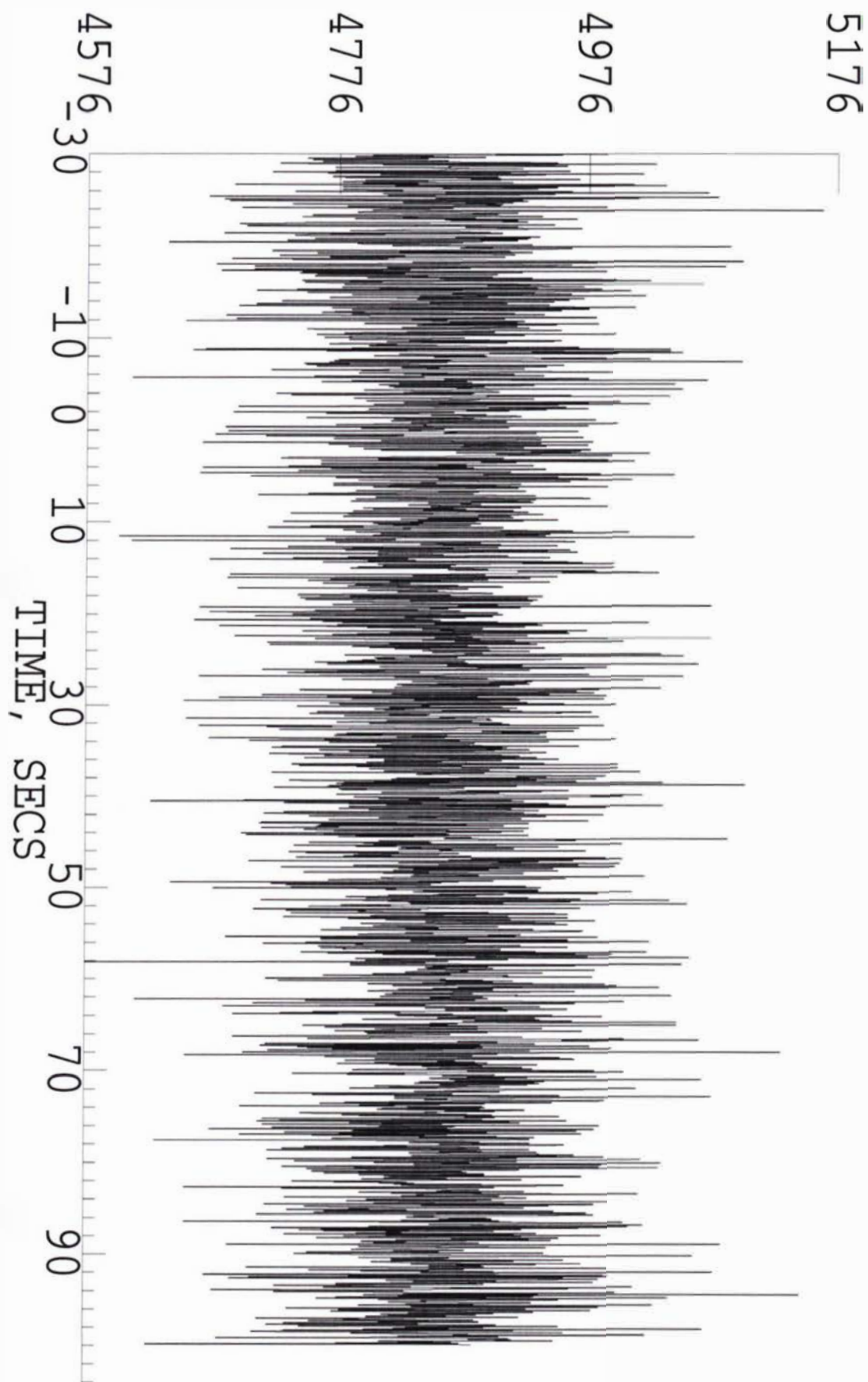
HESSI 25 to 150 keV Counts
Created 12-Aug-2011 23:02:42.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

INTEGRAL 07/08/11 71866.001 19:57:46.0

A

100-10000 keV

COUNTS/ .050 S



B

From gncirc@capella2.gsfc.nasa.gov Sun Aug 7 18:47:07 2011
X-Barracuda-Envelope-From: gncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gncirc@capella2.gsfc.nasa.gov>
Subject: Fermi GBM detection of a SGR-like burst
cc: khurley@ssl.berkeley.edu
Date: Sun, 7 Aug 2011 21:47:38 -0400 (EDT)
X-MIME-Autoconverted: from 8bit to quoted-printable by capella2.gsfc.nasa.gov id
X-Ucb-Scan-Signature: cc7f0d1a08be1d2a2762016c2eb13637c383b734
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.
X-MIME-Autoconverted: from quoted-printable to 8bit by scylla2.ssl.berkeley.edu

TITLE: GCN CIRCULAR
NUMBER: 12255
SUBJECT: Fermi GBM detection of a SGR-like burst
DATE: 11/08/08 01:47:36 GMT
FROM: Sylvain Guiriec at UAH <sylvain.guiriec@lpta.in2p3.fr>

Sylvain Guiriec (UAH), C. Kouveliotou (NASA/MSFC)
and A.J. van der Horst (USRA)
report on behalf of the Fermi/GBM Team:

83784

"The Fermi Gamma-ray Burst Monitor (GBM) triggered at 23:16:24.91 UT on 7 August 2011 (trigger 334451786 / 110807970) on an SGR-like event, possibly associated with the source identified earlier by the Swift team as a new SGR (D'Elia et al. GCN 12253).

The on-ground location, using the GBM trigger data, is RA = 279.0, Dec = -5.9 (J2000 degrees, equivalent to 18h36m, -5h52m), with an uncertainty of 6.3 degrees (radius, 1-sigma containment, statistical only; there is additionally a systematic error which is currently estimated to be 2 to 3 degrees). The angle from the LAT boresight is 72 degrees.

The duration of this event is ~0.1s with little emission beyond 100 keV, which is typical of SGR bursts. This location is consistent with the burst detected ~3.3 hours earlier with Swift (D'Elia et al. GCN 12253), strongly suggesting that the GBM burst may originate from the same source. However, since this is a very crowded region which includes 8 SGR sources already, we cannot exclude as the origin of this event any of the other SGRs, given the large GBM error box.

The results presented above are preliminary. Further follow up observations are strongly encouraged. "

MS01

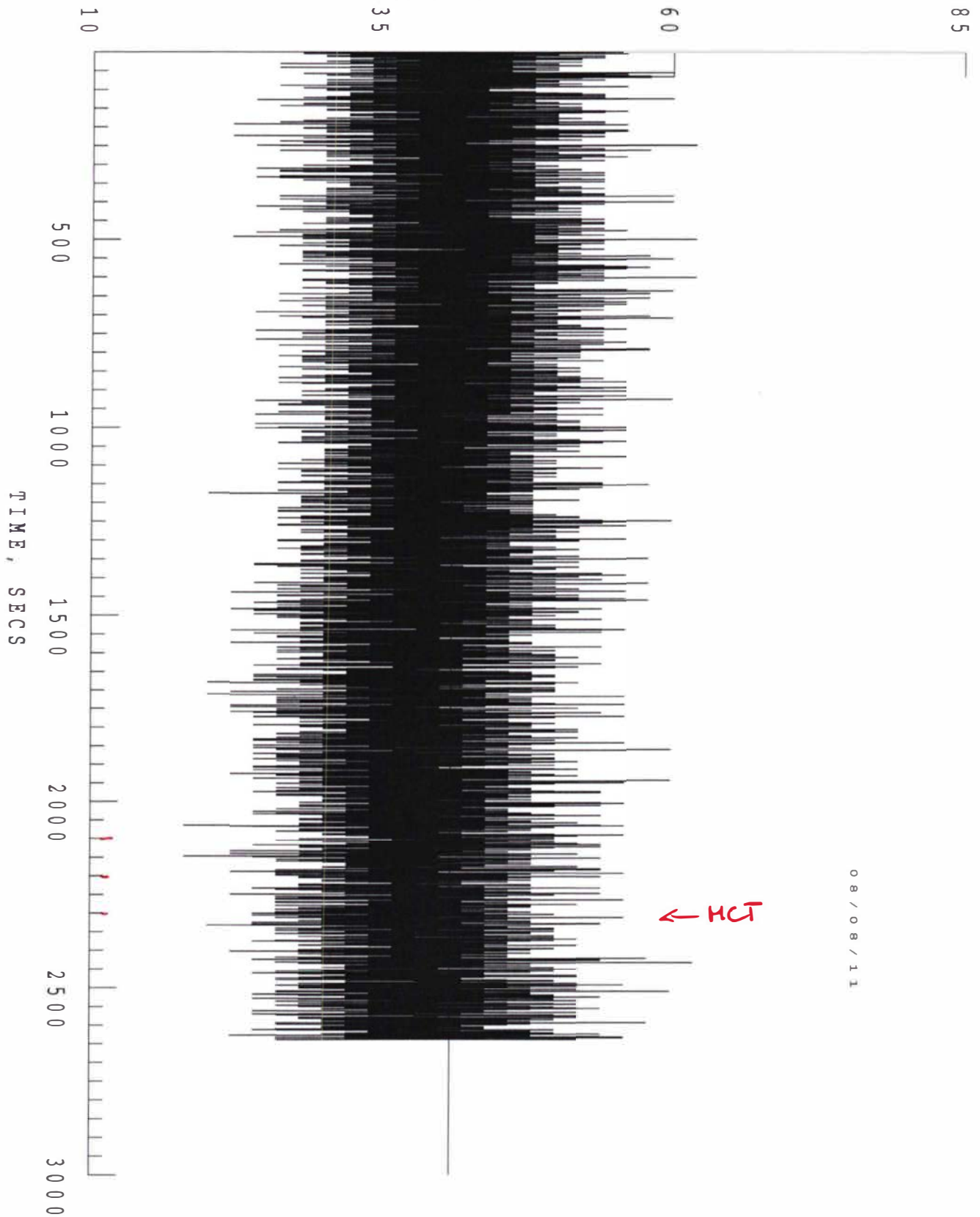
07/08/11

82464.216

B

50 - 3000 keV

COUNTS/0.250 S



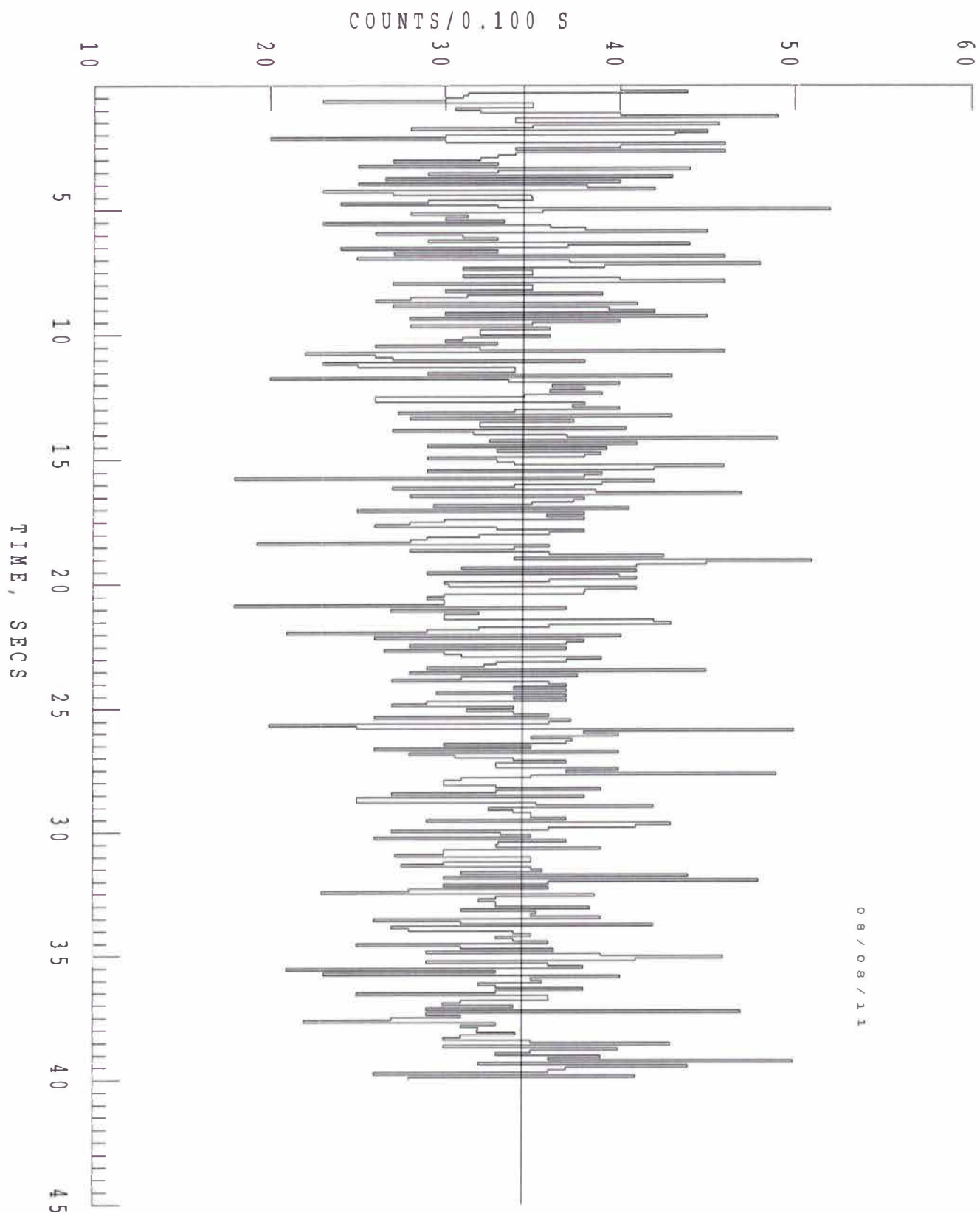
08/08/11

B

HESSI

07/08/11 83764.000 (FERMI_SGR_20110807_83784)

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110807_2316

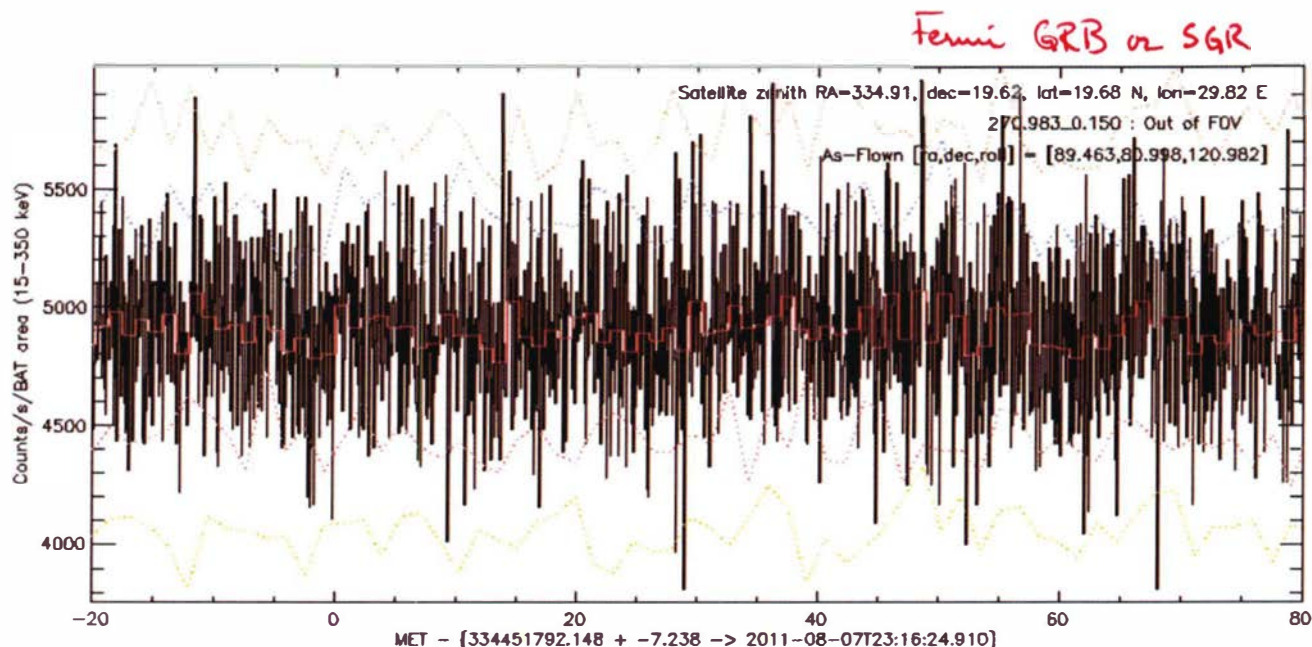
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 8 Aug 2011 02:35:36 -0600 (MDT)

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

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

/tmp/110807_2316.png



```
% /usr/local/bin/swinfo -o 334451792.148 -s 266.930 -9.810
Time(MET + UTCF -> UT): 334451792.148 + -7.238 -> 2011-08-07T23:16:24.910
Swift Zenith(RA,dec): 334.91, 19.62
Swift Location(lon,lat,alt): 29.82 E, 19.68 N, 578 km
Obs Sequence Number: 00458521008
Obs Target Name: GRB 110801A
Obs Date and Times: 2011-08-07 23:04:54 - 23:33:50
Obs Pointing(ra,dec,roll): 89.463, 80.998, 120.98
266.930_-9.810_imageloc (boresight_dist, angle): (109, 152)
266.930_-9.810_exposure (cm^2 cos adjusted): 0
266.930_-9.810_altitude: 40 (up)

% /usr/local/bin/swinfo -o 334451792.148 -s 270.983_0.150
Time(MET + UTCF -> UT): 334451792.148 + -7.238 -> 2011-08-07T23:16:24.910
Swift Zenith(RA,dec): 334.91, 19.62
Swift Location(lon,lat,alt): 29.82 E, 19.68 N, 578 km
Obs Sequence Number: 00458521008
Obs Target Name: GRB 110801A
Obs Date and Times: 2011-08-07 23:04:54 - 23:33:50
Obs Pointing(ra,dec,roll): 89.463, 80.998, 120.98
270.983_0.150_imageloc (boresight_dist, angle): (99, 147)
270.983_0.150_exposure (cm^2 cos adjusted): 0
270.983_0.150_altitude: 48 (up)
```

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

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

/tmp/110807_2316.png Content-Type: image/png

Content-Encoding: base64

/tmp/110807_2316_bat64ms_ipn

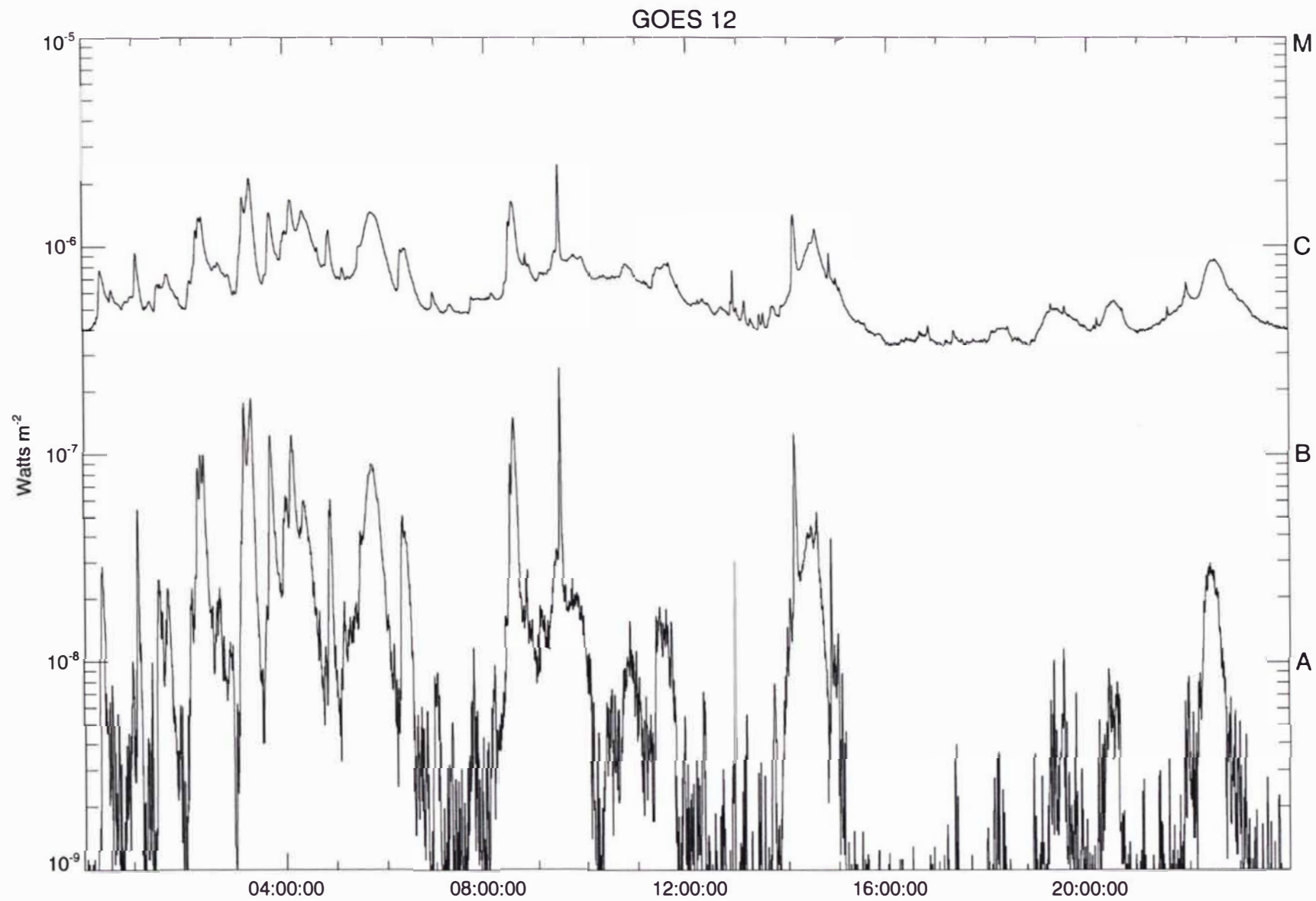
/tmp/110807_2316_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--



Data Start: 11/08/07, 0000:09

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Plot created: 11/08/10, 0832

Background not subtracted

Background not subtracted

Sample average = 10

A

From vxw@capella2.gsfc.nasa.gov Sun Aug 7 23:22:50 2011
 X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
 Date: Mon, 8 Aug 2011 02:23:26 -0400
 From: Bacodine <vxw@capella2.gsfc.nasa.gov>
 To: khurley@ssl.berkeley.edu
 Subject: GCN/SWIFT BAT LIGHTCURVE
 X-Ucb-Scan-Signature: 28ee0a07043fa494570fc37bc855d2a023edabef
 X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
 X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE

NOTICE_DATE: Mon 08 Aug 11 06:23:05 UT

NOTICE_TYPE: Swift-BAT GRB Lightcurve

TRIGGER_NUM: 458918, Seg Num: 0

GRB_RA: 57.264d {+03h 49m 03s} (J2000),
 57.360d {+03h 49m 26s} (current),
 56.851d {+03h 47m 24s} (1950)

GRB_DEC: -44.179d {-44d 10' 42"} (J2000),
 -44.144d {-44d 08' 36"} (current),
 -44.330d {-44d 19' 47"} (1950)

GRB_DATE: 15781 TJD; 220 DOY; 11/08/08

GRB_TIME: 22734.20 SOD {06:18:54.20} UT

TRIGGER_INDEX: 477

GRB_PHI: 170.26 [deg]

GRB_THETA: 29.28 [deg]

DELTA_TIME: -63.00 [sec]

TRIGGER_DUR: 8.192 [sec]

SOLN_STATUS: 0x3

RATE_SIGNIF: 10.00 [sigma]

IMAGE_SIGNIF: 7.19 [sigma]

URL: sw00458918000msb.lc

SUN_POSTN: 137.85d {+09h 11m 24s} +16.22d {+16d 13' 18"}
 SUN_DIST: 94.63 [deg] Sun_angle= 5.4 [hr] (West of Sun)

MOON_POSTN: 246.69d {+16h 26m 45s} -22.96d {-22d 57' 48"}
 MOON_DIST: 112.35 [deg]

MOON_ILLUM: 70 [%]

GAL_COORDS: 250.54, -50.69 [deg] galactic lon,lat of the burst (or transient)

ECL_COORDS: 35.47, -61.56 [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.

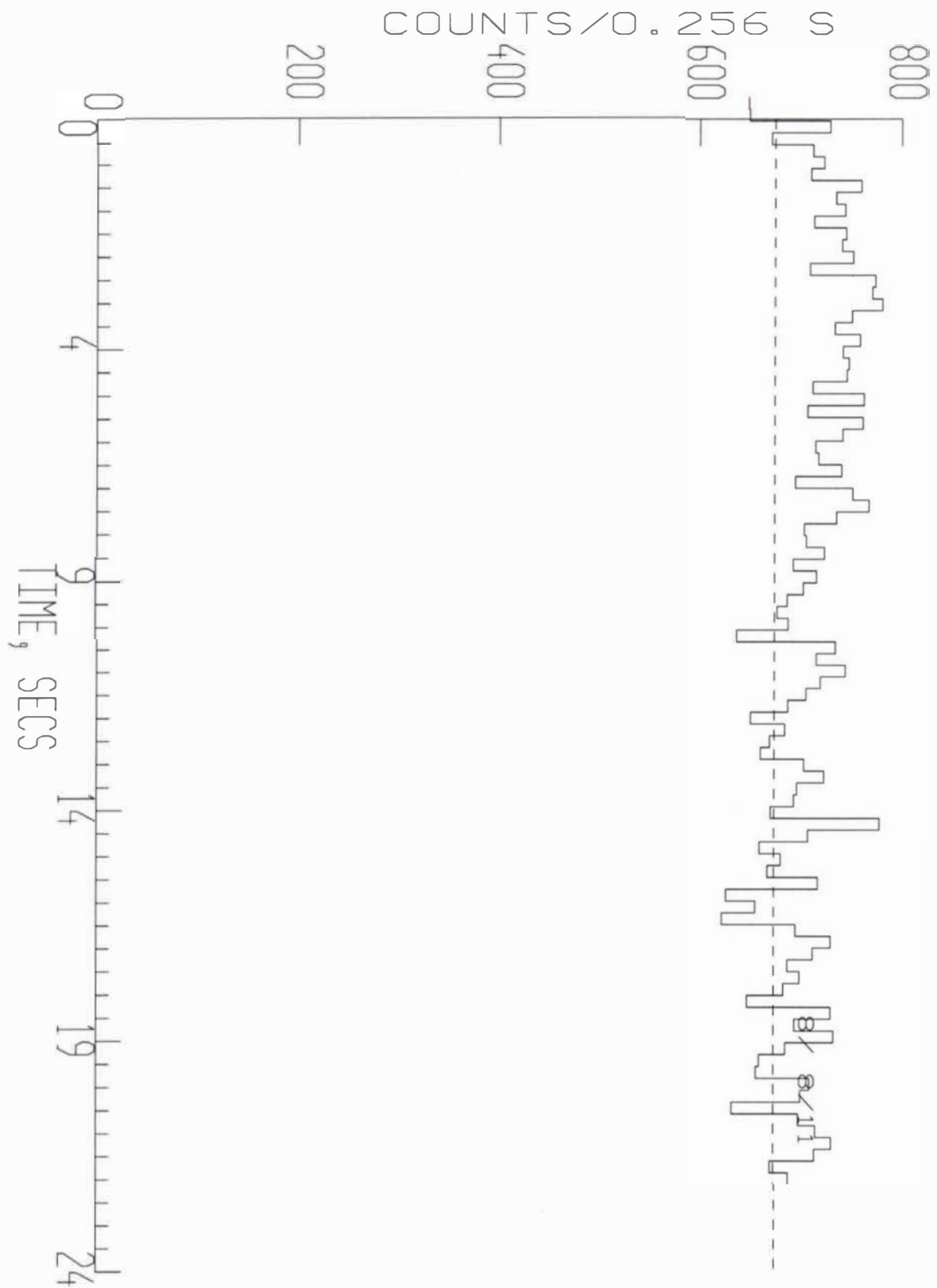
COMMENTS: This is a GRB.

COMMENTS: This trigger occurred at longitude,latitude = 62.92, -19.23 [deg]

48 s

 $3.3 \times 10^{-7} \text{ erg cm}^{-2}$ 0.4 phot/cm² s

SWIFT 08/08/11 22734.202
25- 100 keV



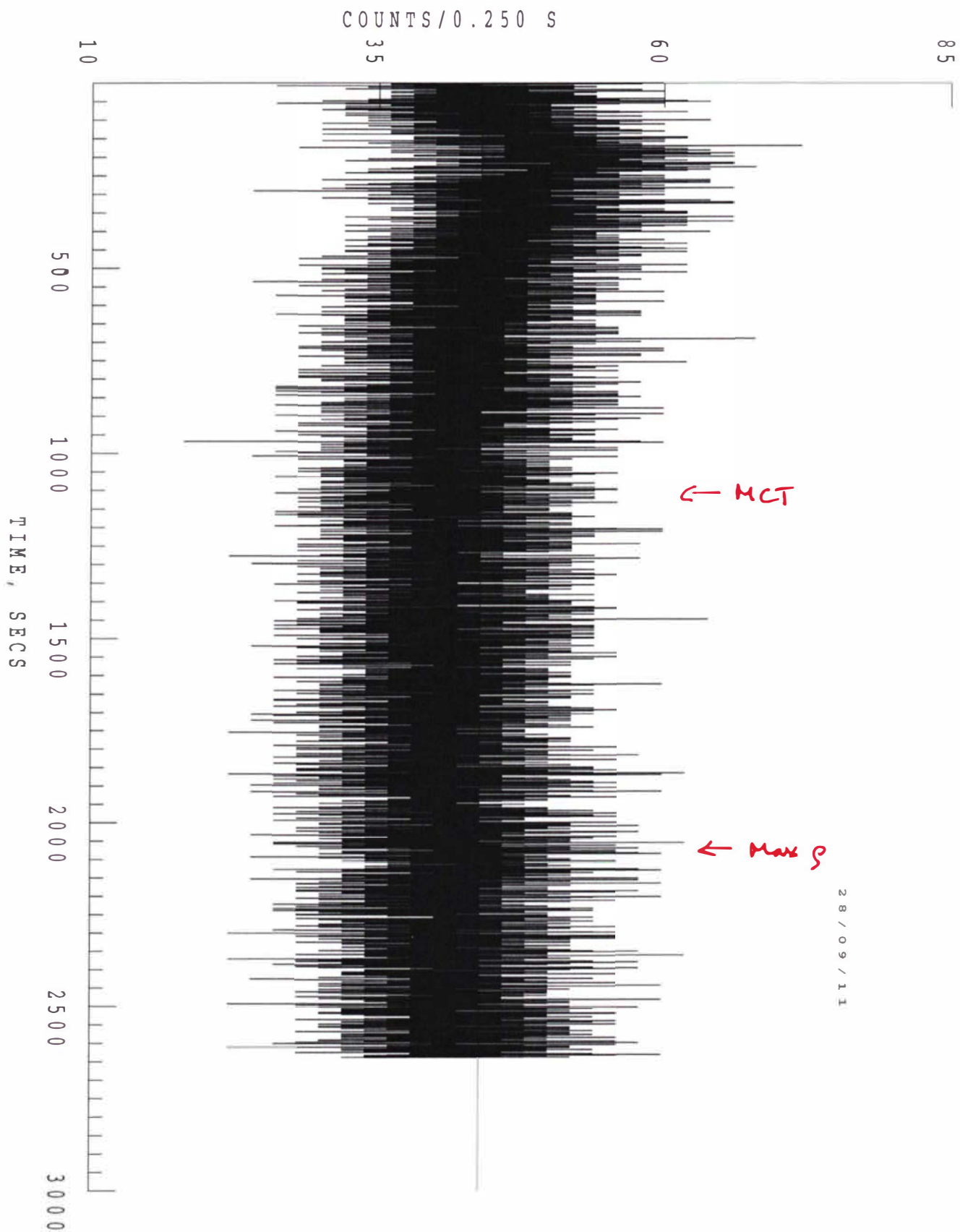
MS01

08/08/11

21383.794

A

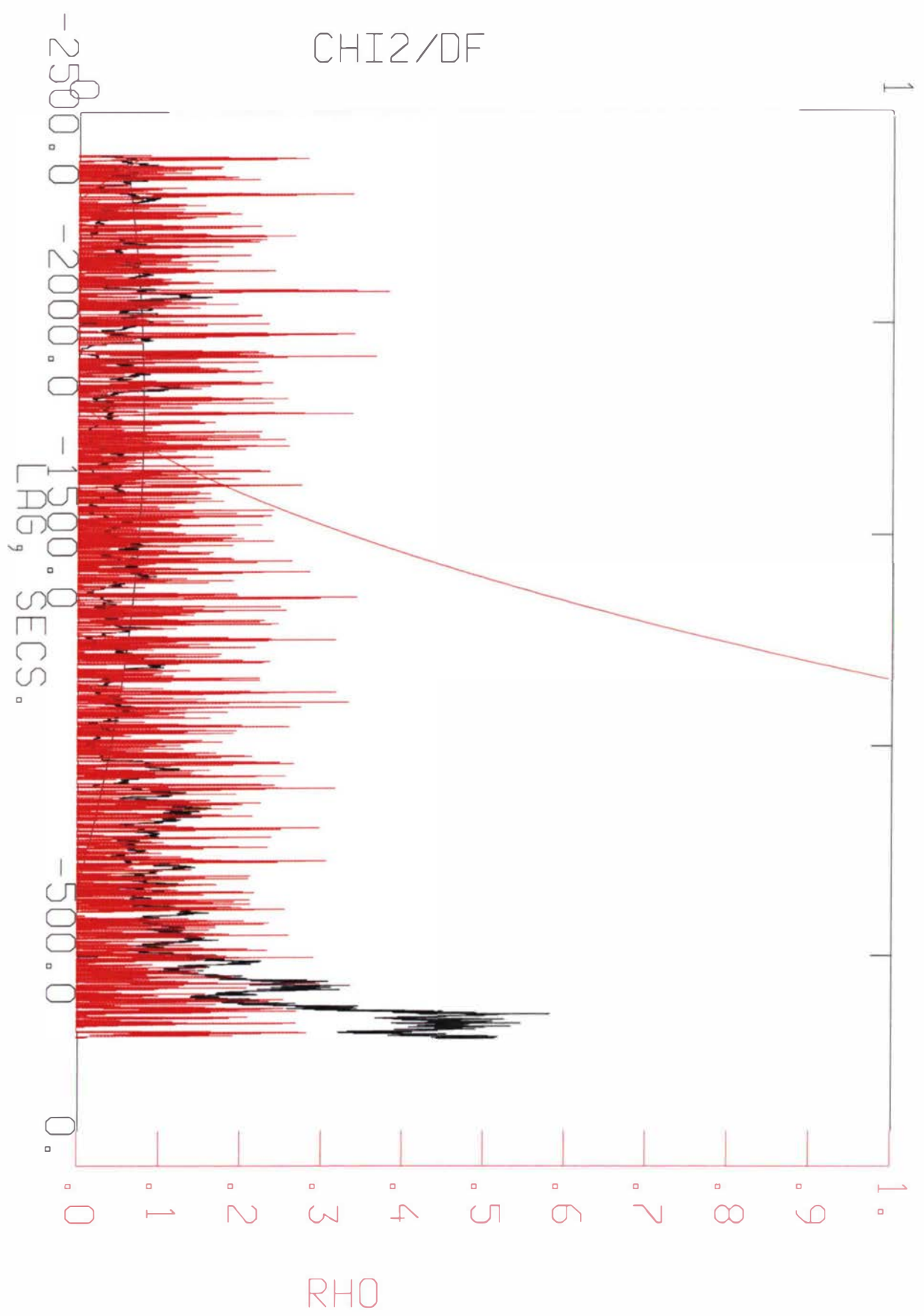
50 - 3000 keV

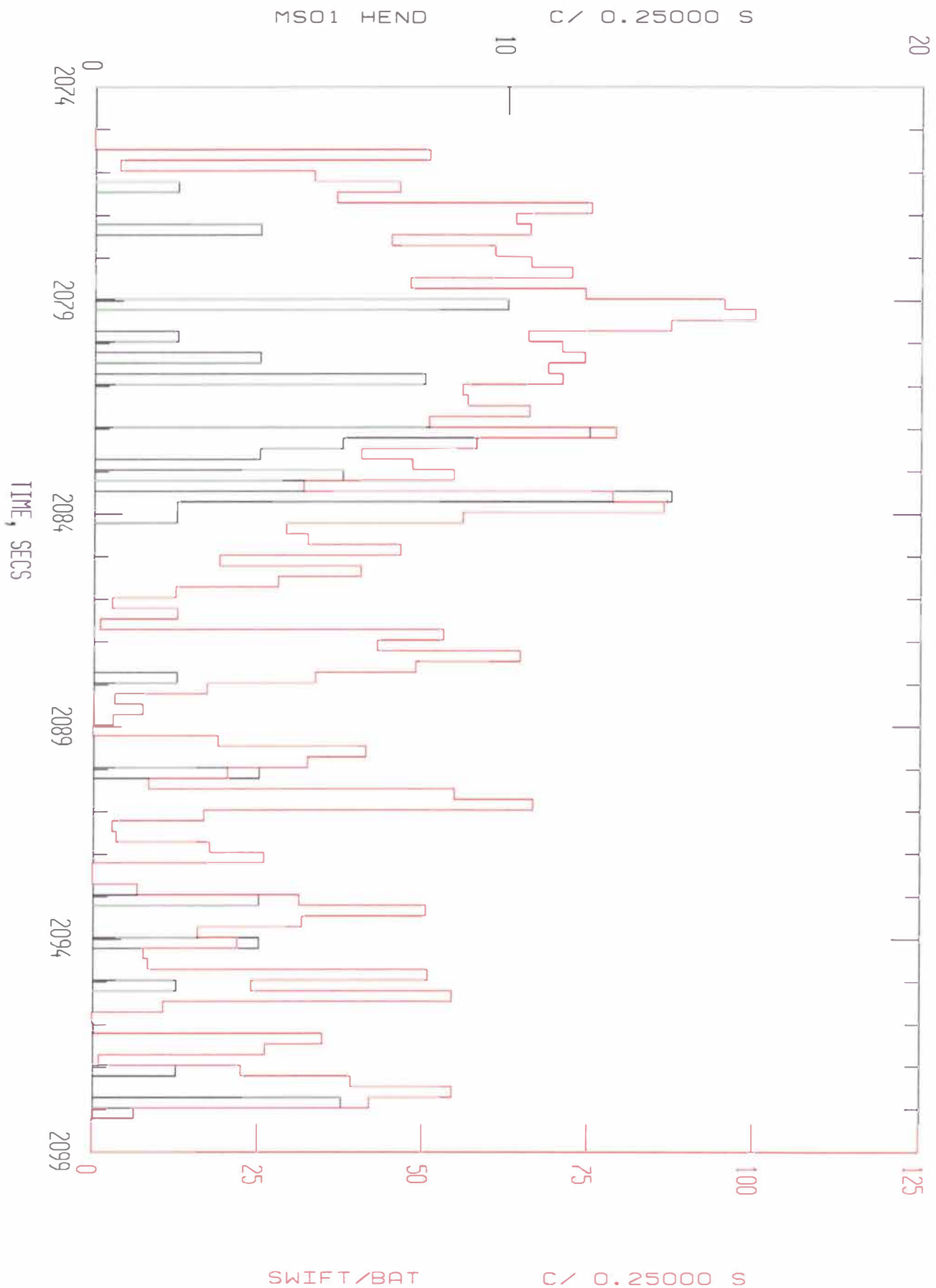


A

MS01 HEND - SWIFT/BAT CORRELATION 08/08/11 21383.794

29 / 9/11





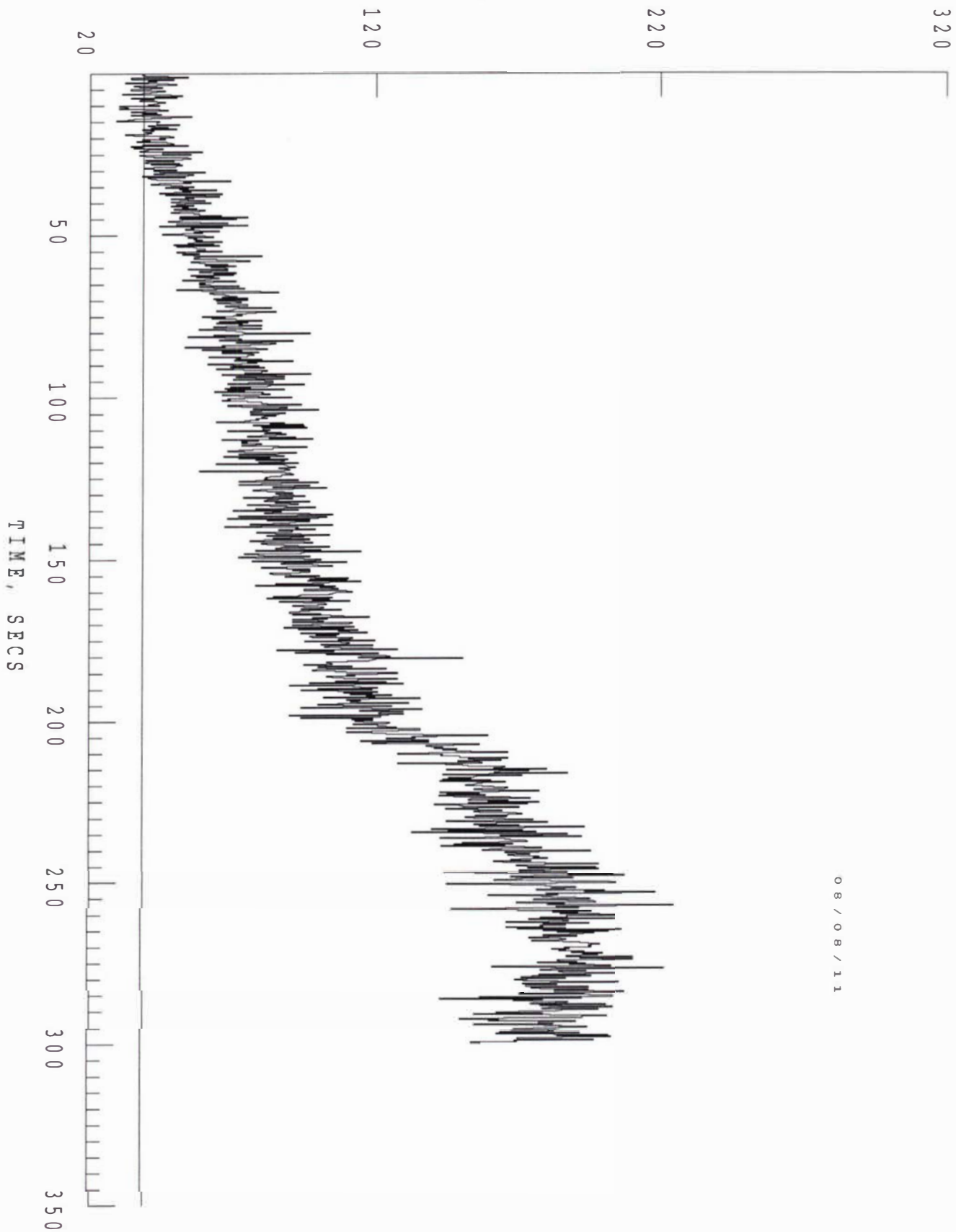
A

HESSI

08/08/11 22584.000 (SWIFT_20110808_22734)

25- 150 keV

COUNTS/0.250 S

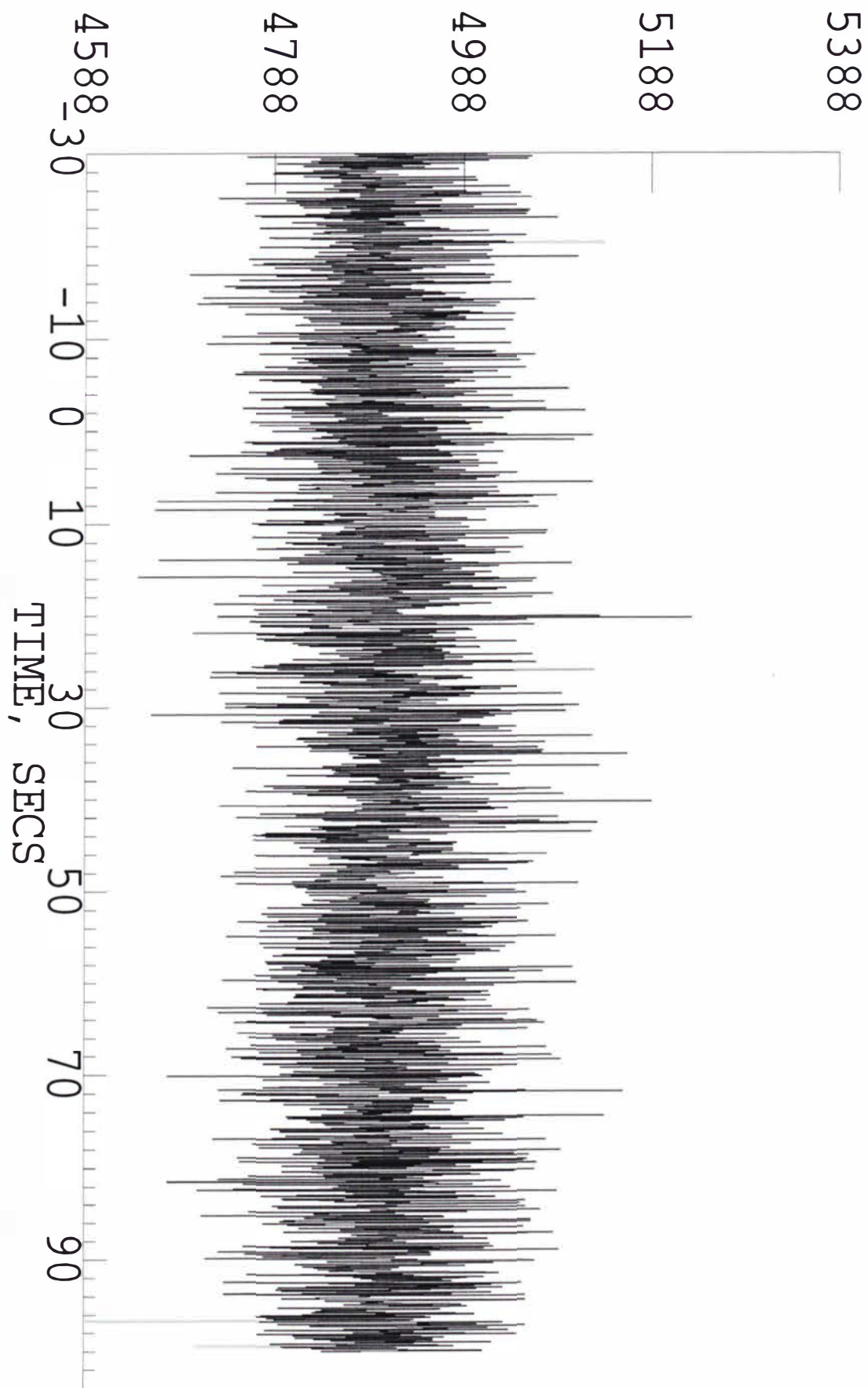


INTEGRAL 08/08/11 22734.023 06:18:54.0

A

100-10000 keV

COUNTS/ .050 S



Subject: [lpn] BAT lightcurve for trigger at 110808_0859

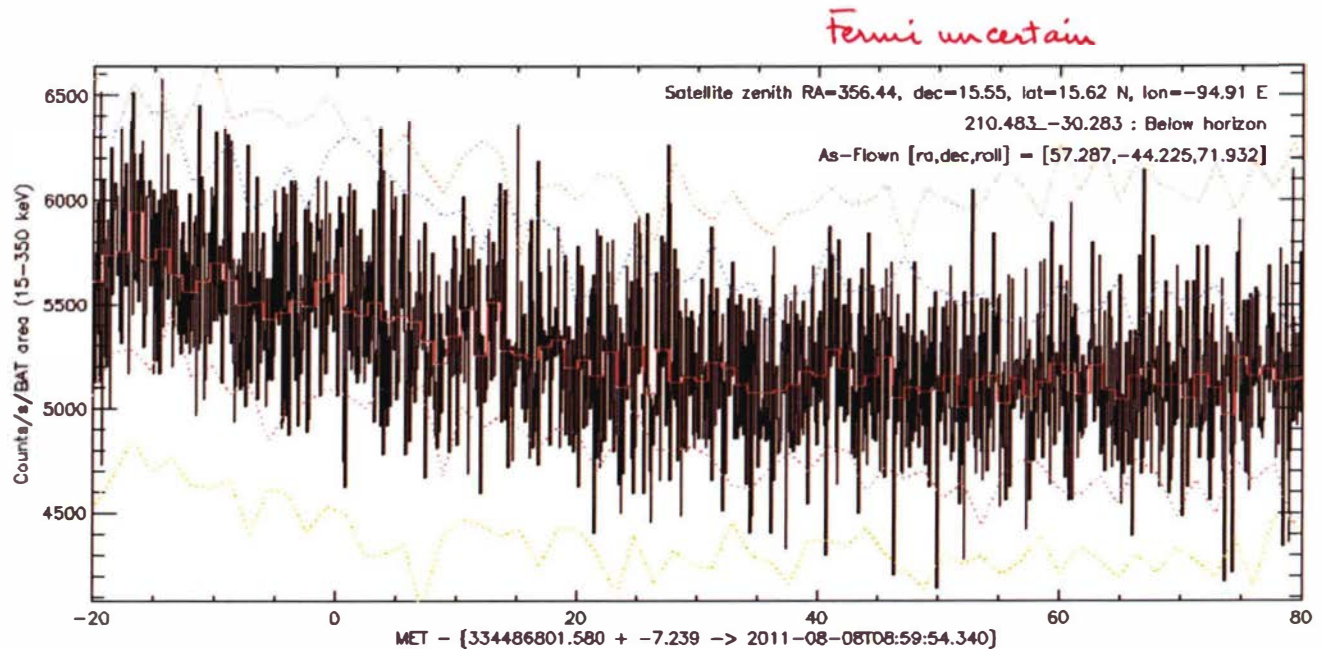
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 8 Aug 2011 13:37:56 -0600 (MDT)

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

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

/tmp/110808_0859.png



```
% /usr/local/bin/swinfo -o 334486801.579 -s 210.483_-30.283
Time(MET + UTCF -> UT):      334486801.580 + -7.239 -> 2011-08-08T08:59:54.340
Swift Zenith(RA,dec):        356.44, 15.55
Swift Location(lon,lat,alt):  -94.91 E, 15.62 N, 582 km
Obs Sequence Number:         00458918001
Obs Target Name:             GRB 110808A
Obs Date and Times:          2011-08-08 08:58:45 - 09:12:51
Obs Pointing(ra,dec,roll):   57.287, -44.225, 71.93
210.483_-30.283_imageloc (boresight_dist, angle): (102, -5)
210.483_-30.283_exposure (cm^2 cos adjusted): 0
210.483_-30.283_altitude: -32 (down)
```

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

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

/tmp/110808_0859.png

Content-Type: image/png
Content-Encoding: base64

/tmp/110808_0859_bat64ms_ipn

/tmp/110808_0859_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

SUZAKU

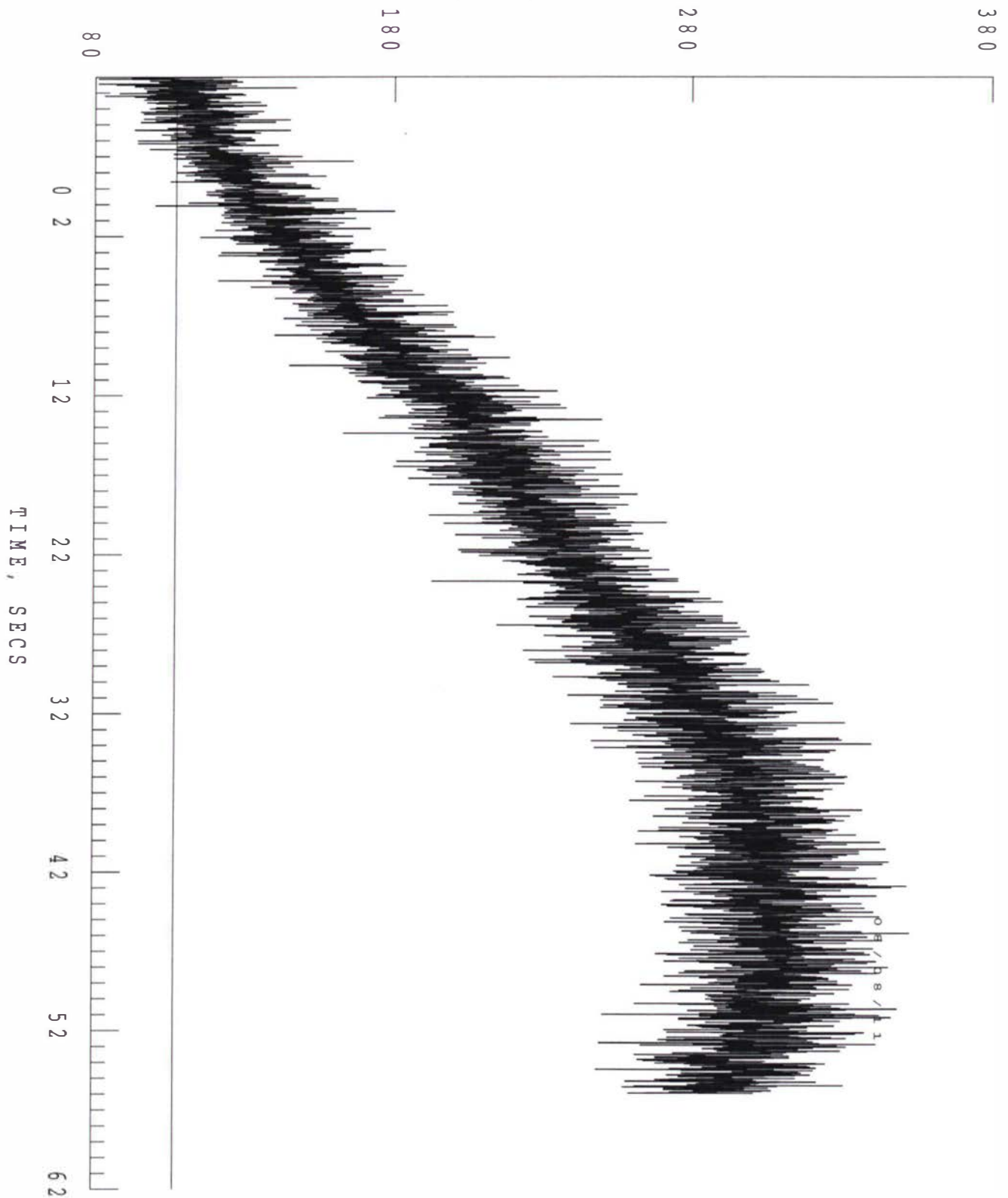
08/08/11

46745.116

50 - 240 keV

Not in Suzaku list

COUNTS/0.016 S

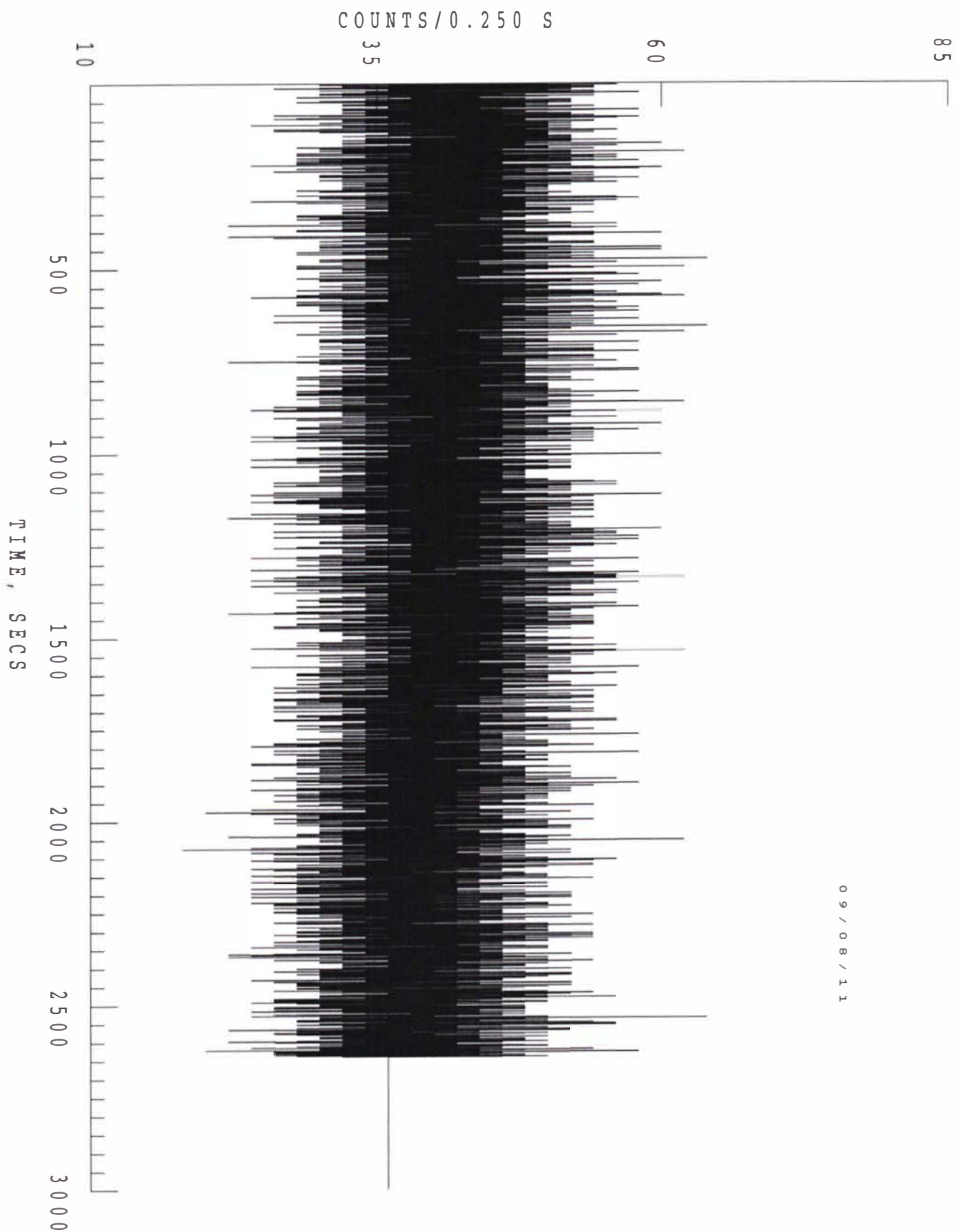


MS01

08/08/11

45383.389

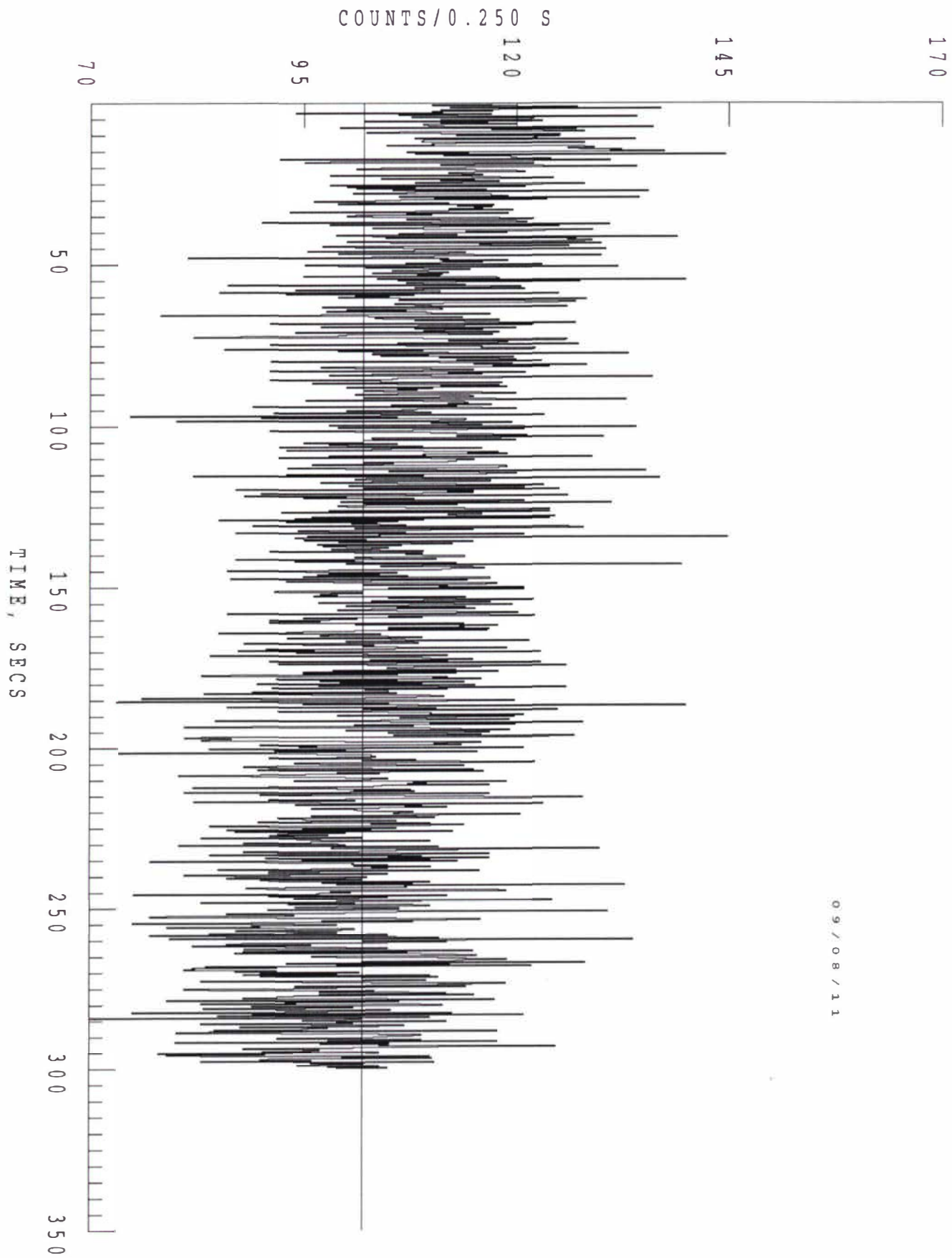
50 - 3000 keV



HESSI

08/08/11 46595.000 (SUZAKU_20110808_46745)

25- 150 keV



Date: Mar 27 2013 + Sep 20 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)? 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?

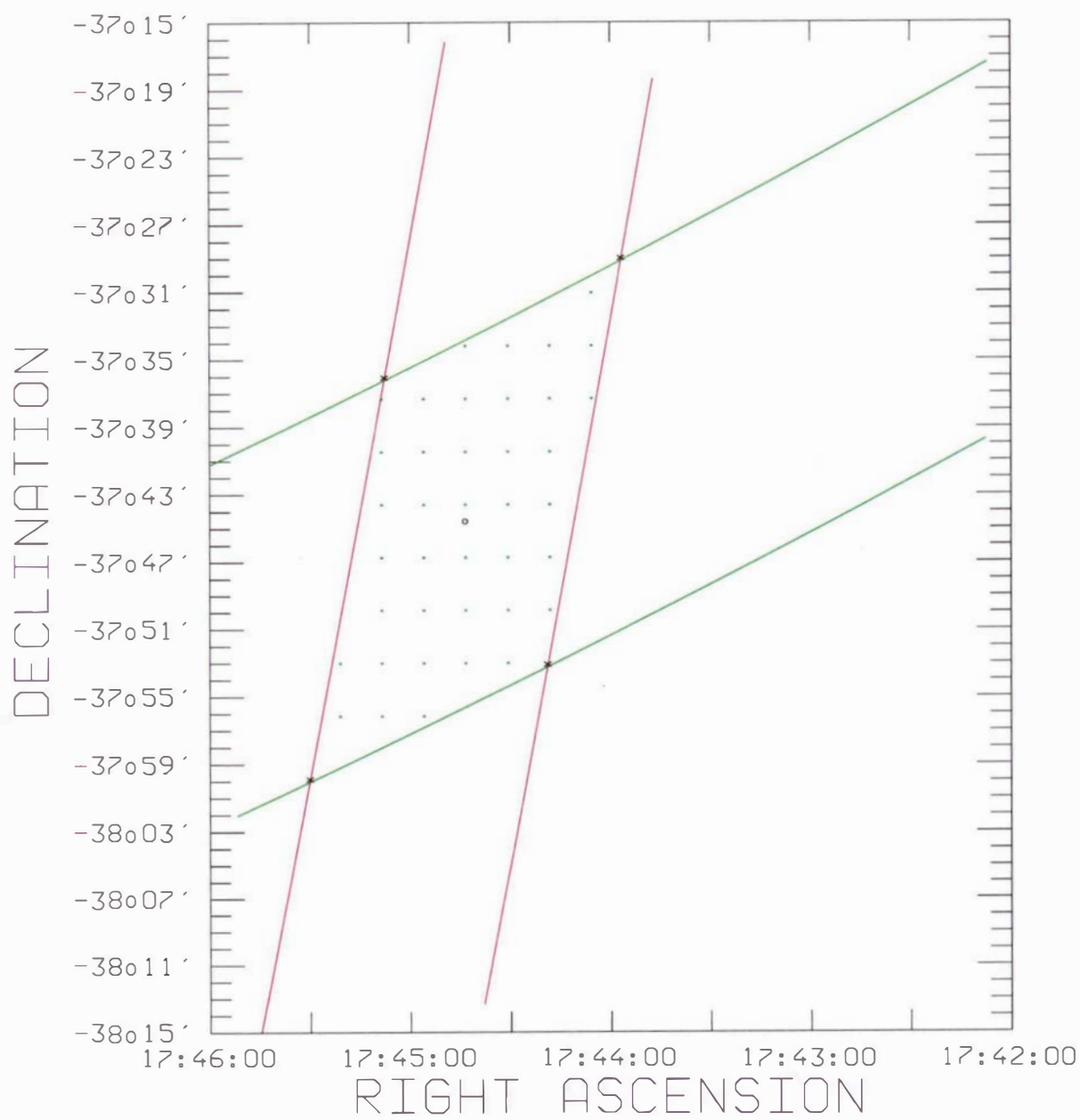
7. For INTEGRAL events

- ☐ 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?

GRB110808 ~56692 S

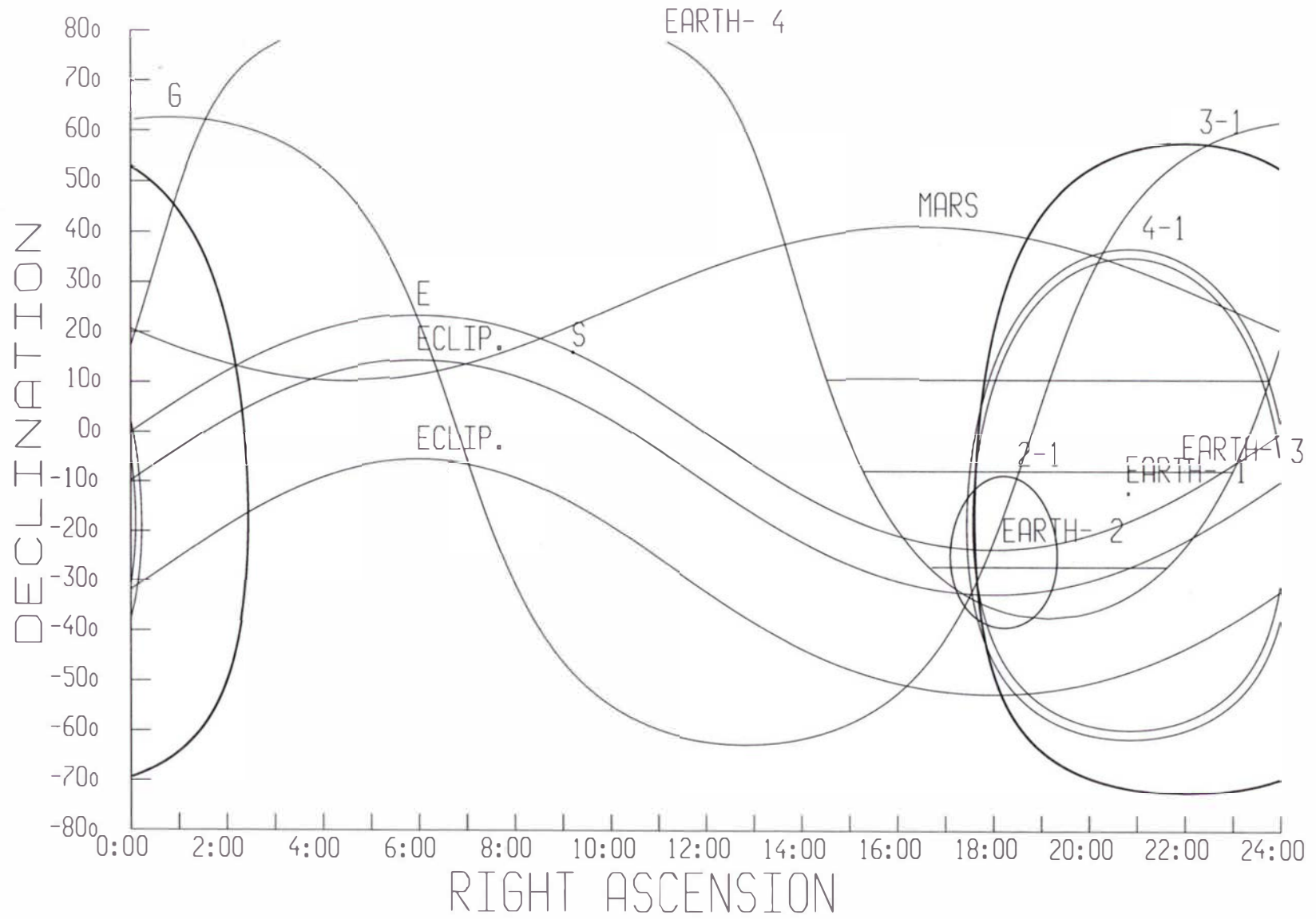
20/09/20

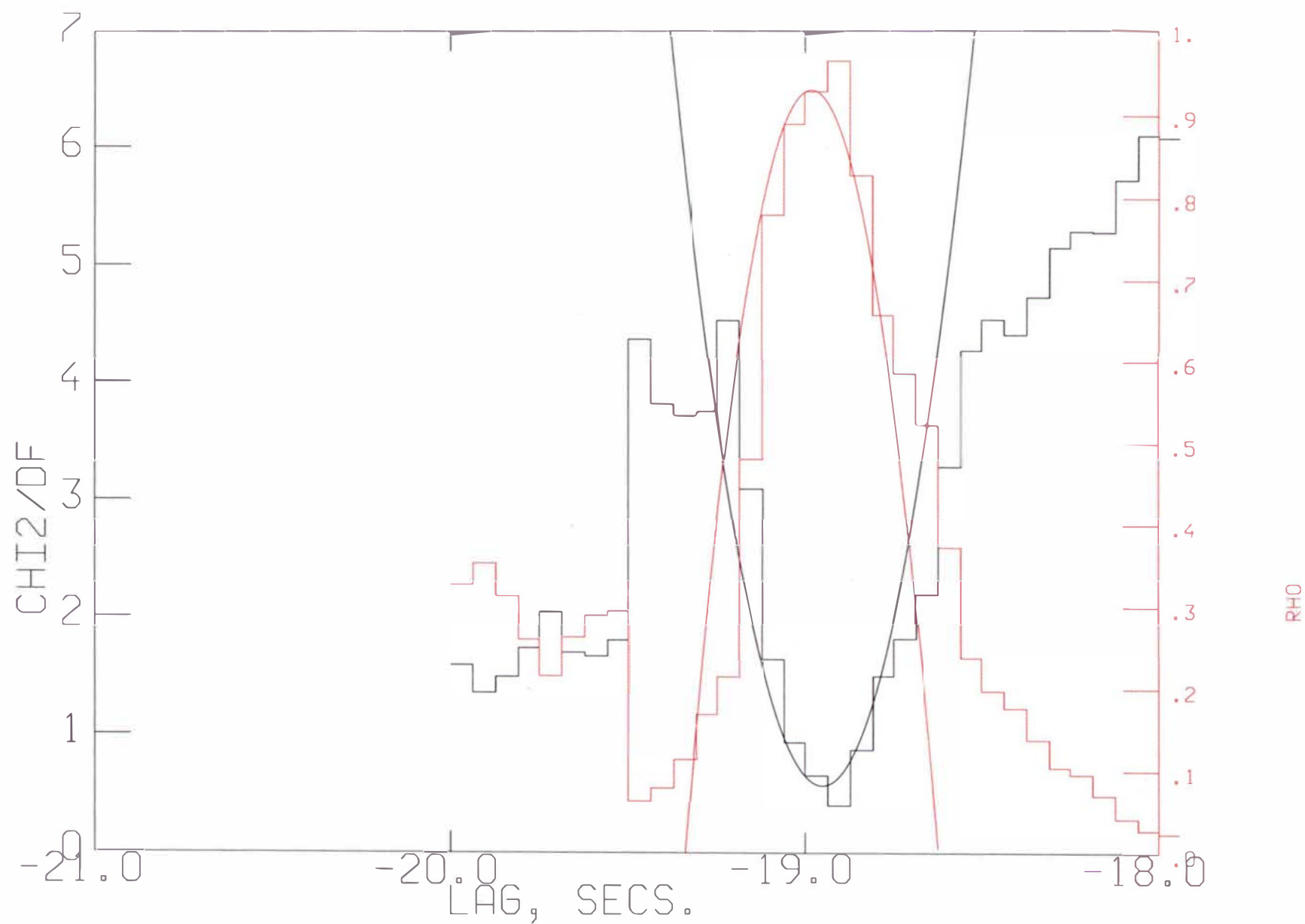


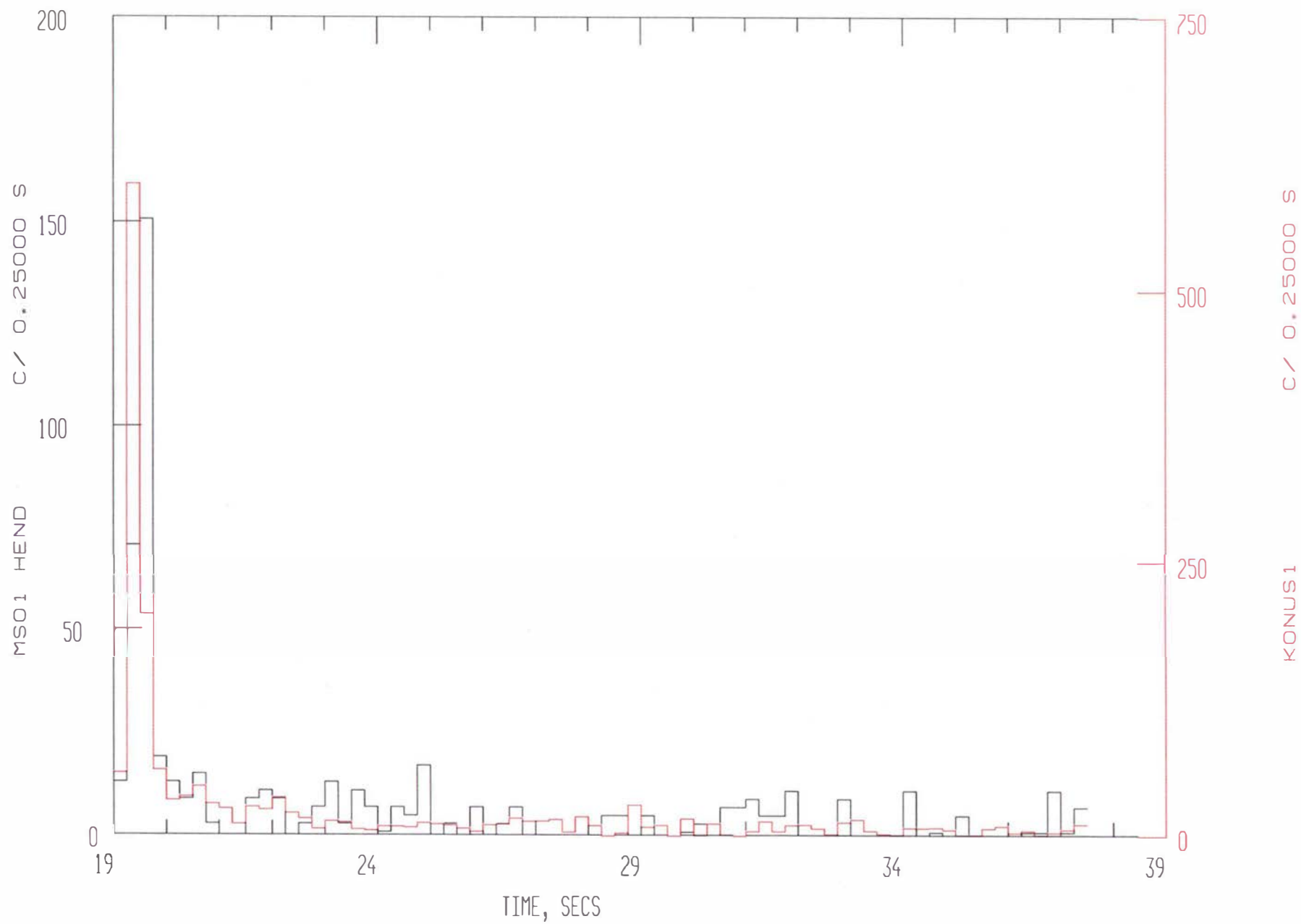
EVENT OF AUG 8, 2011 15:44

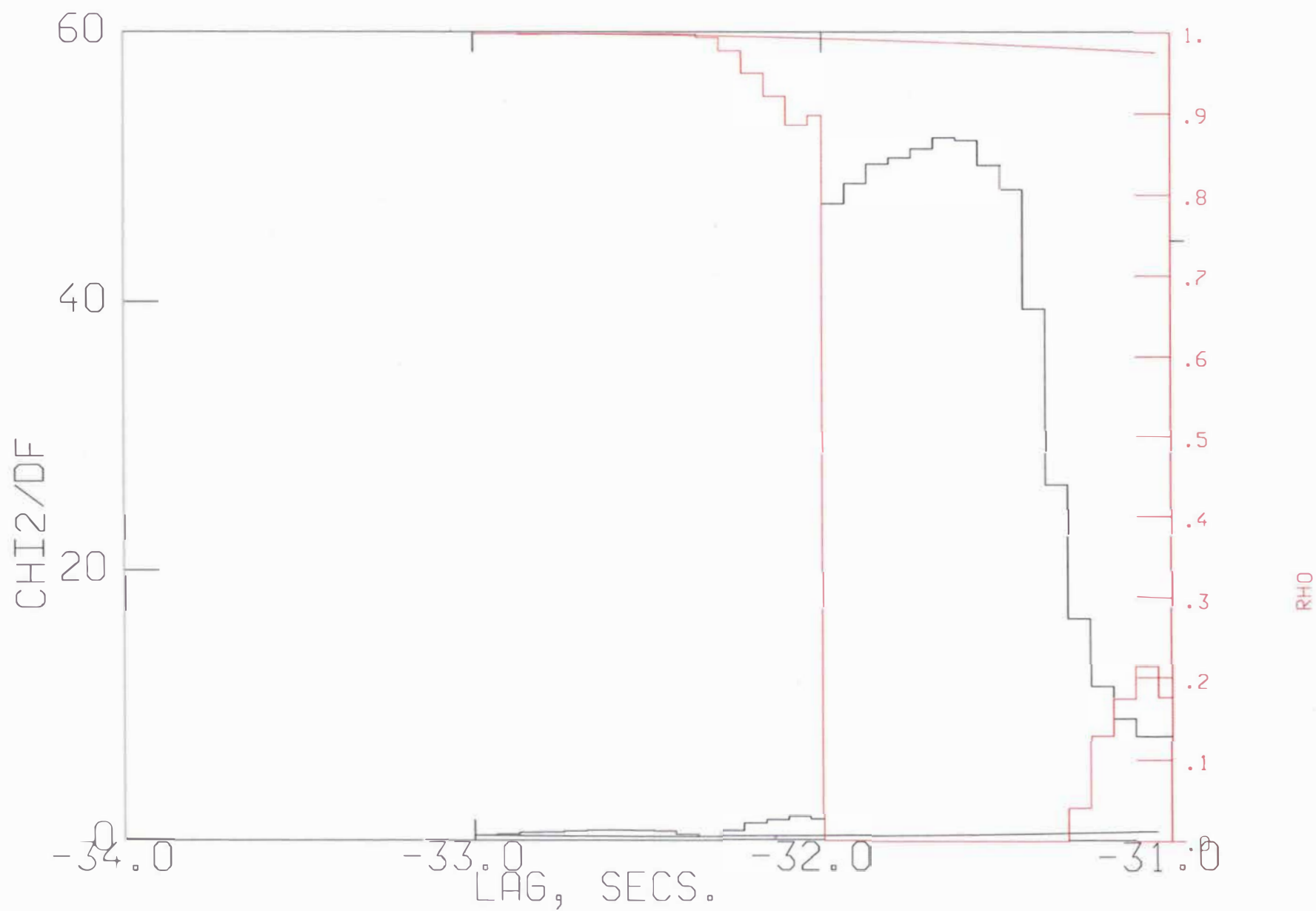
26/03/2013

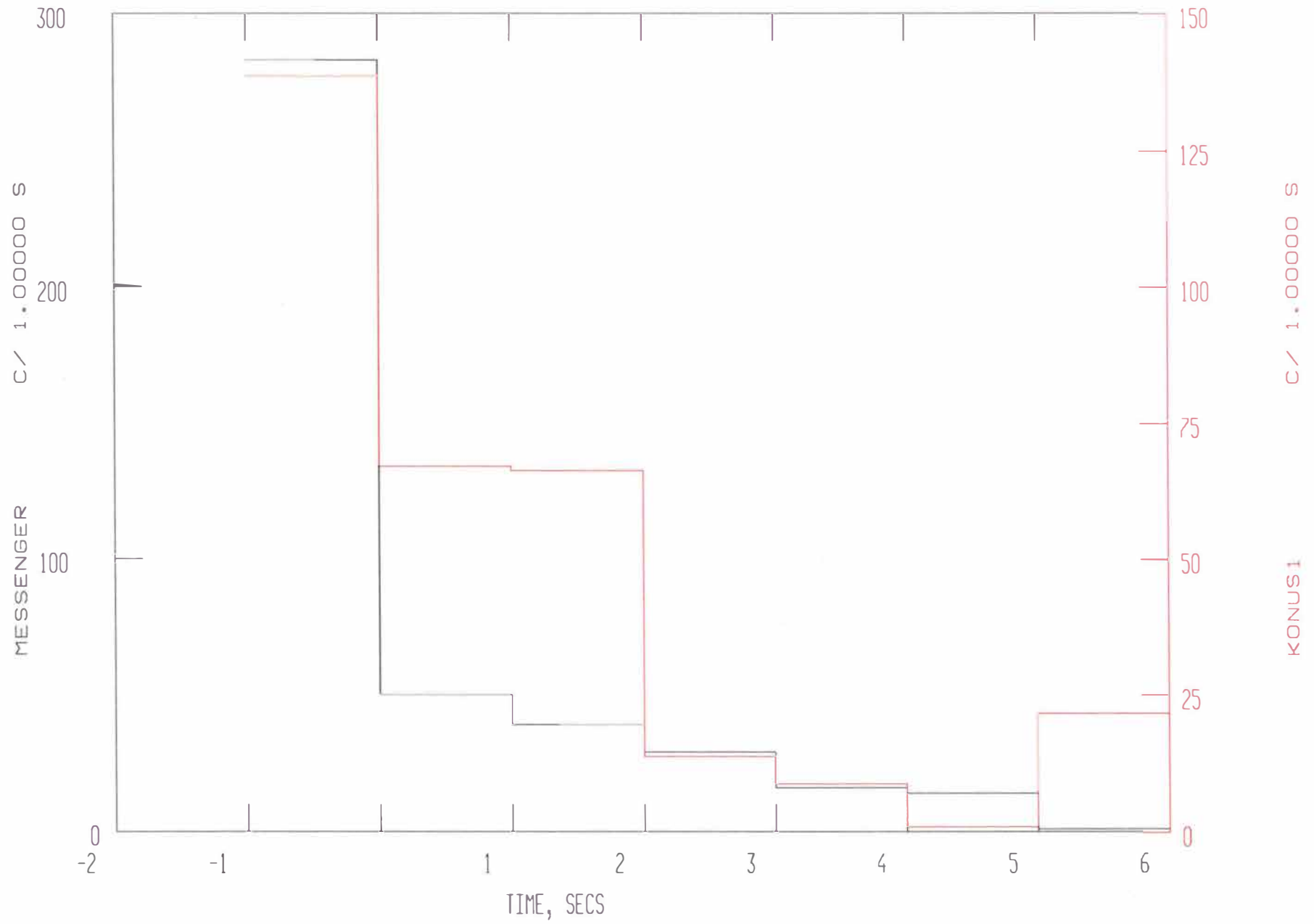
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN
1 KONUS1
E=ECLIPTIC
2 MO
G=GALACTIC EQUATOR
3 MESSENGER 4 HESSI

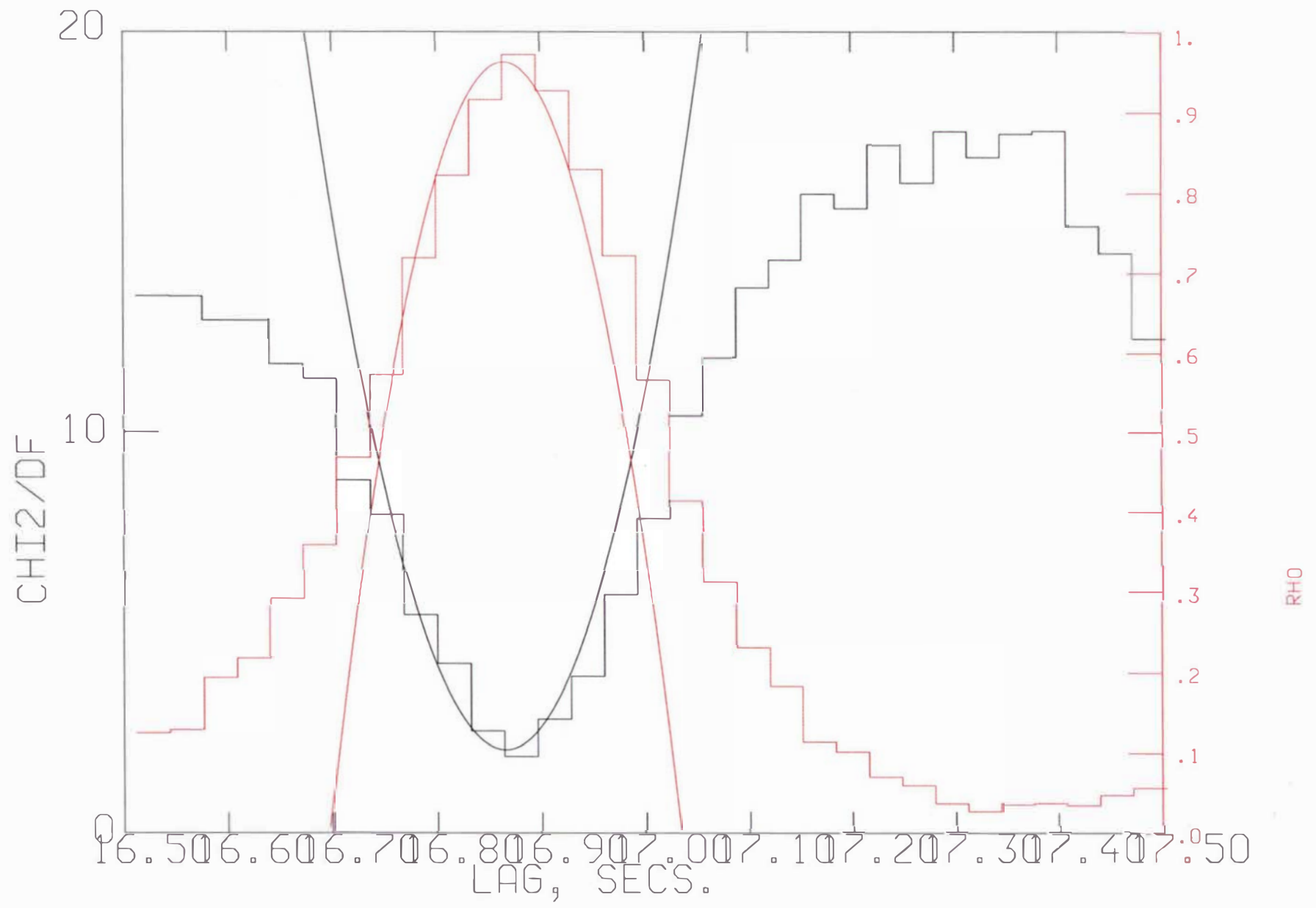


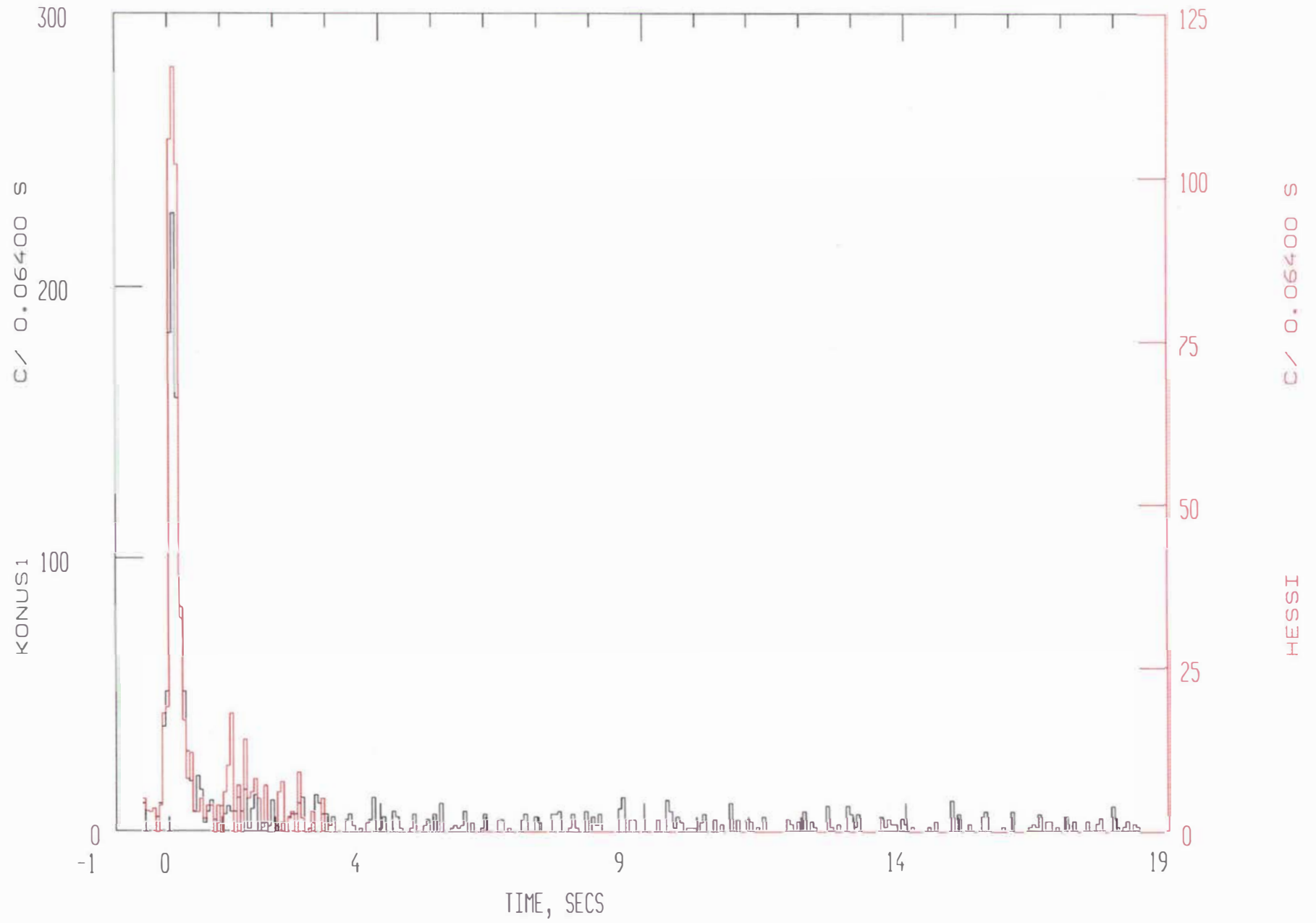












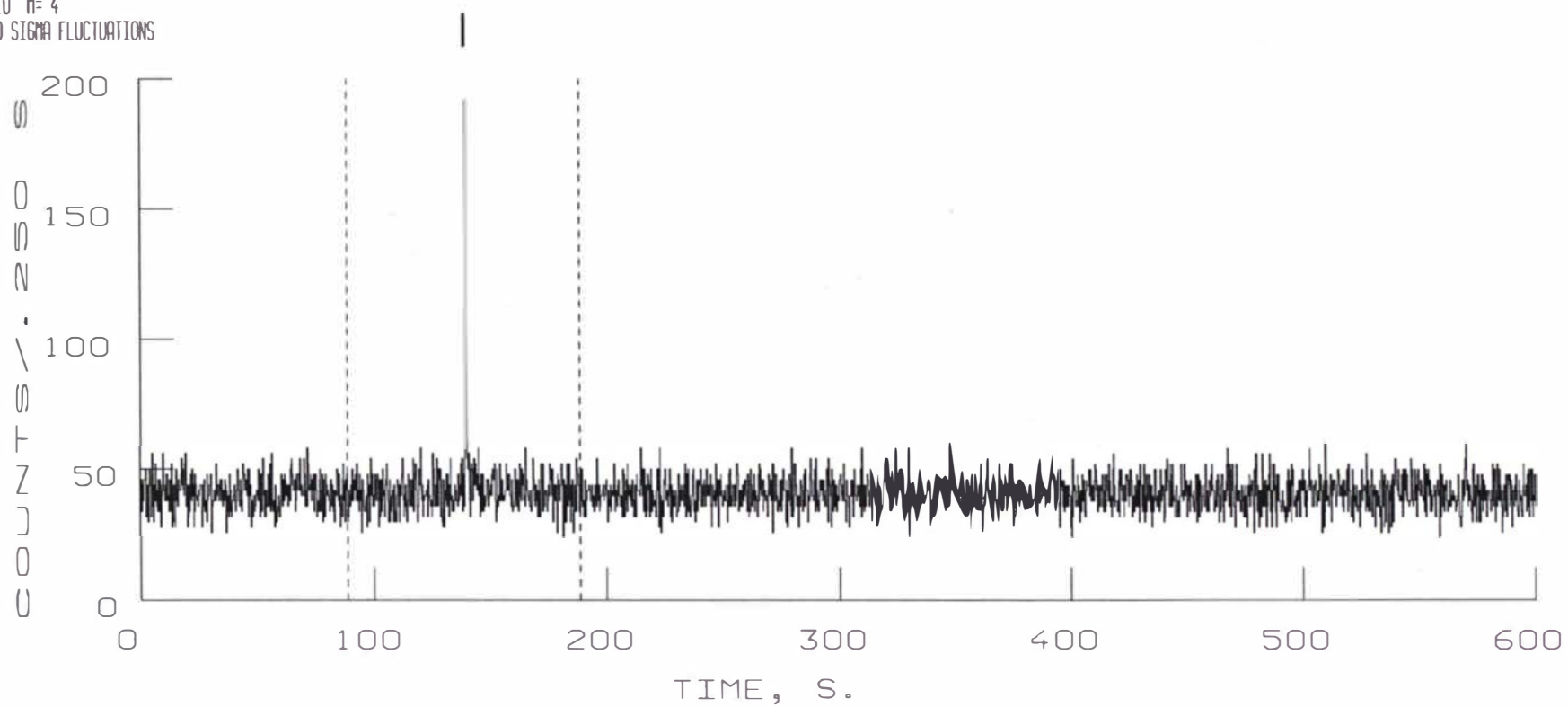
MS01 HEND

26/03/2013

08/08/2011 57563.188 s

50-3000 keV

N= 10 M= 4
>4.0 SIGMA FLUCTUATIONS



KONUS1

08/08/11

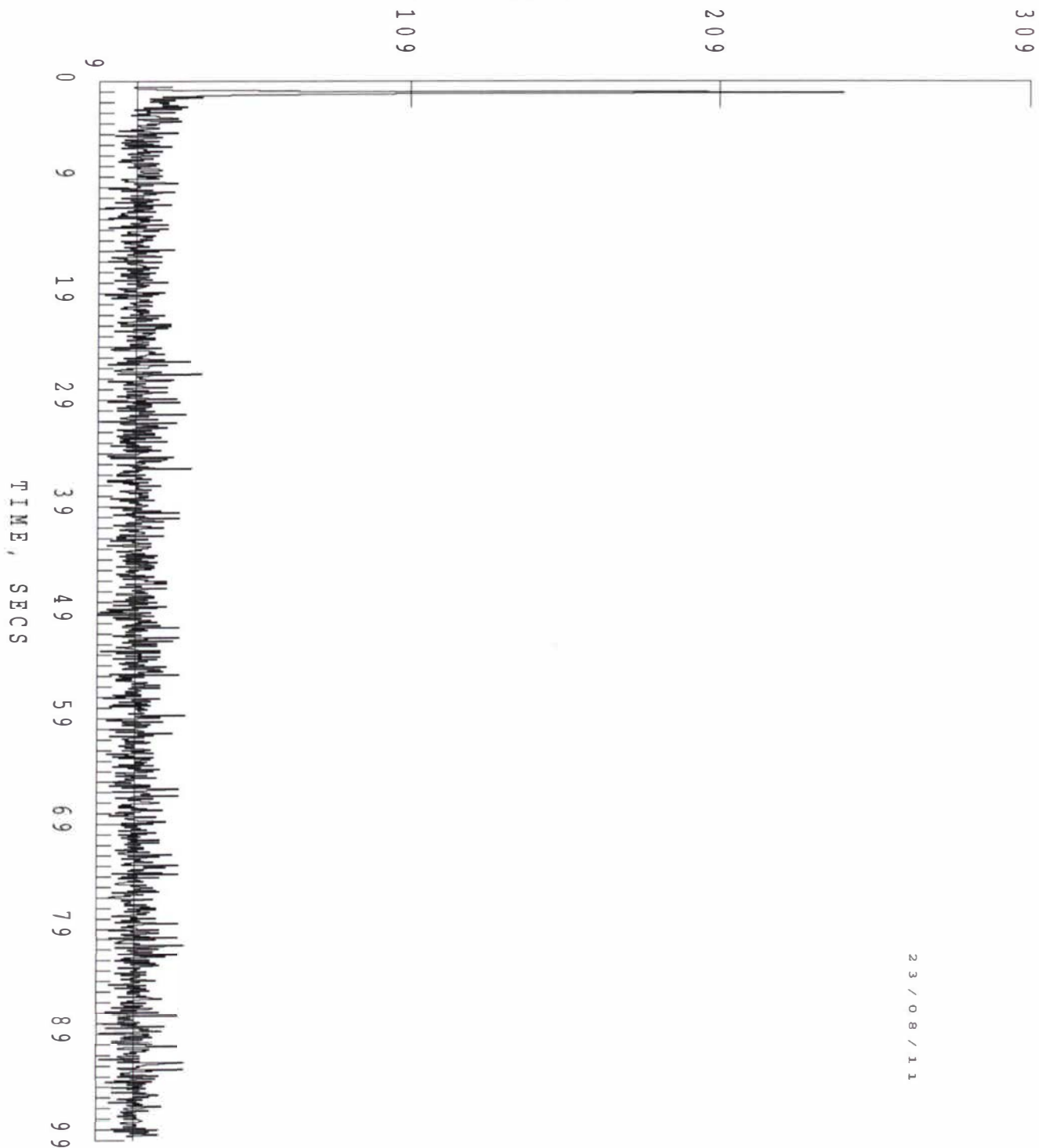
56695.237

15:44:55

B

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110808 56695

TRIGGER TIME: 08/08/11 DOY 220 Julian 2455783.15619 UT = 15.749 15:44:55 (56695.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

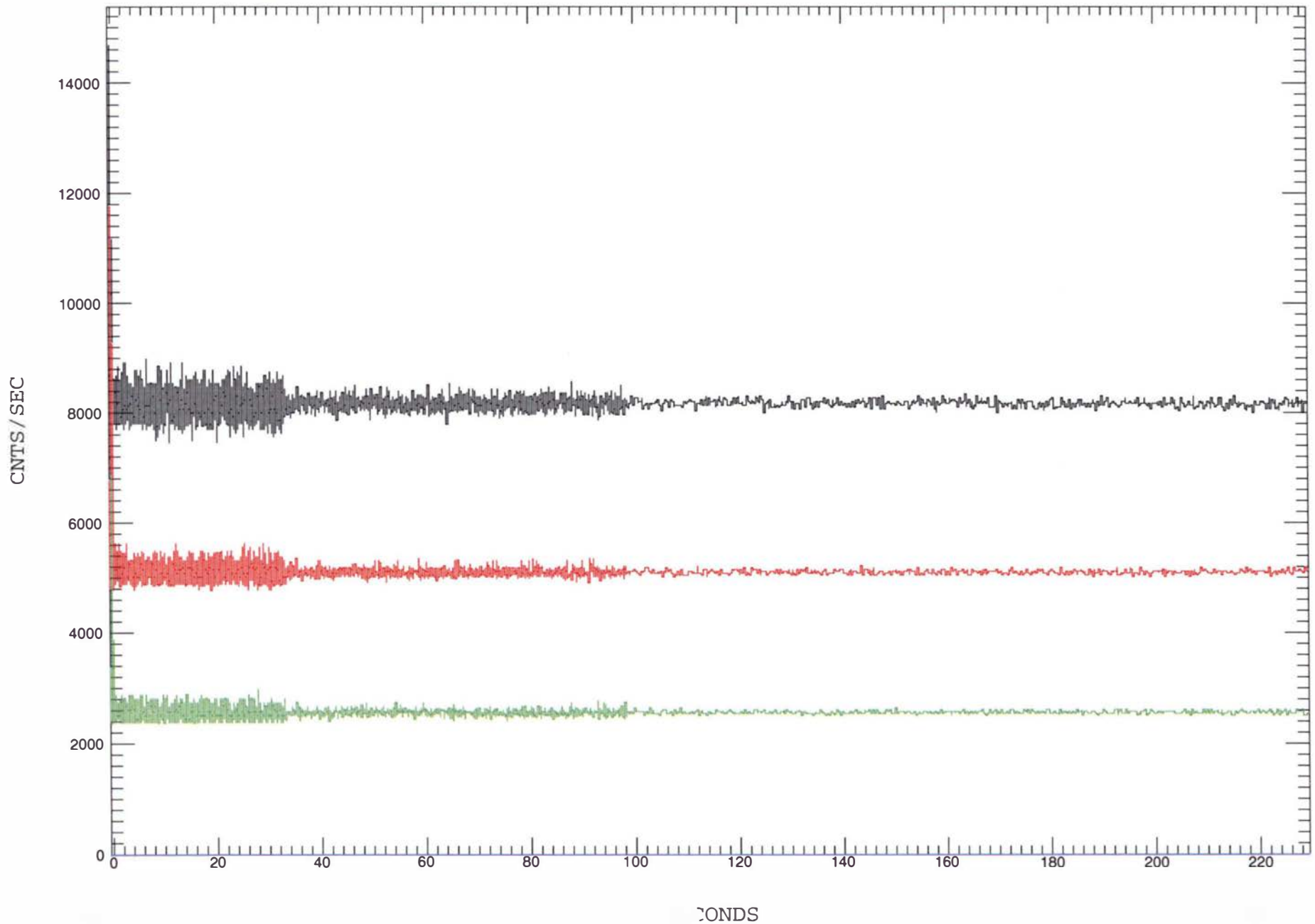
Chan 4 : [> 10 MeV]

Channel 1 + 7200

Channel 2 + 4800

Channel 3 + 2400

Channel 4 + 0

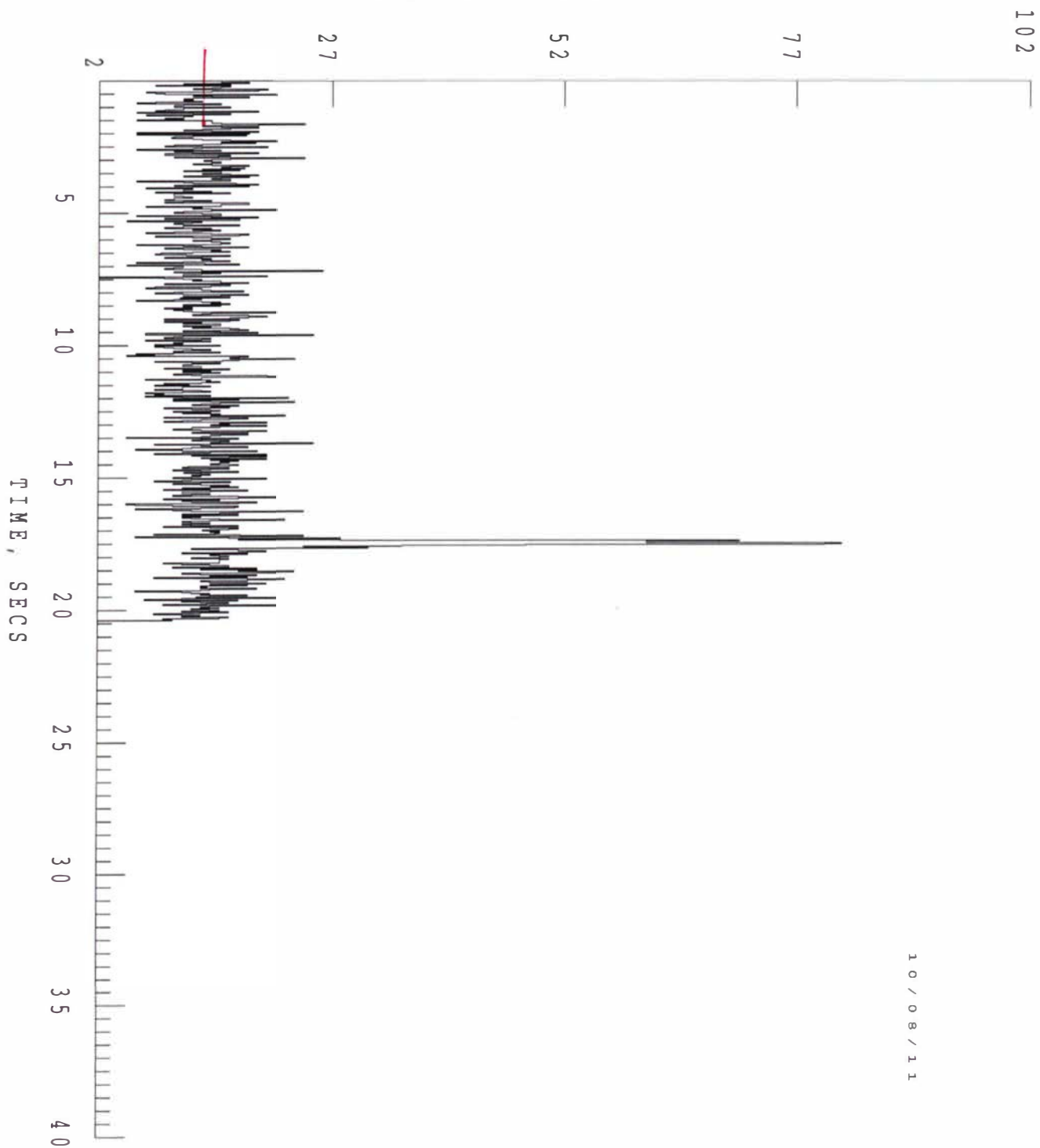


HESSI

08/08/11 56675.000 (KONUS_20110808_56695)

50 - 200 keV

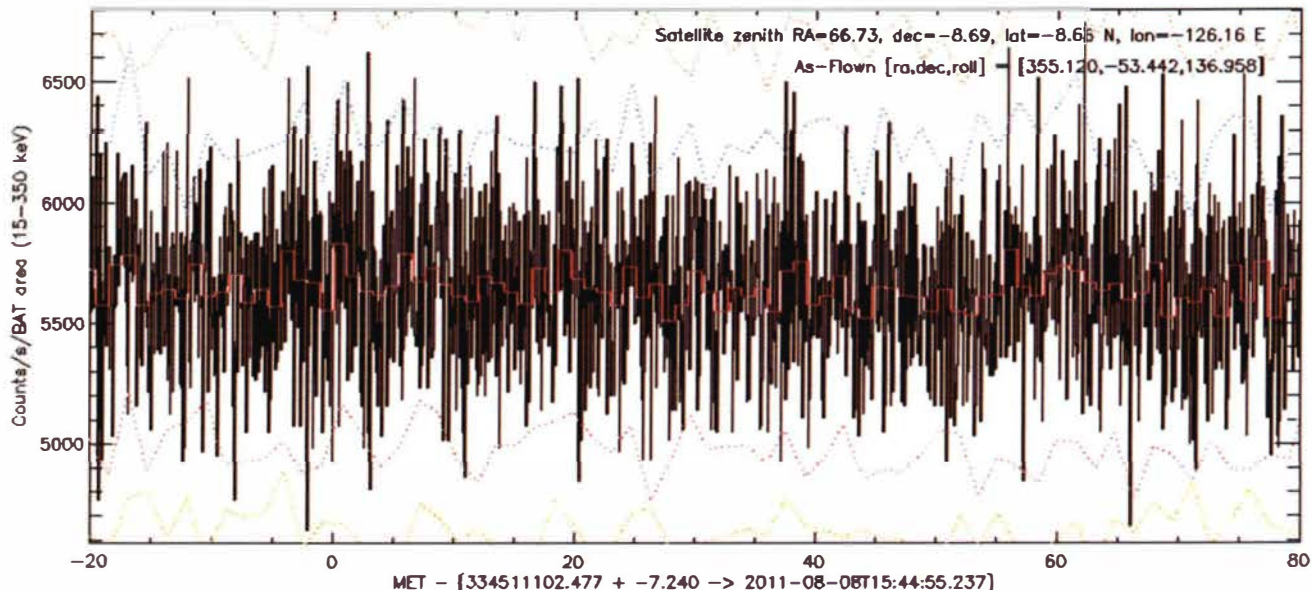
COUNTS/0.032 S



Subject: [lpn] BAT lightcurve for trigger at 110808_1544
From: palmer+automatic_lightcurve@lanl.gov
Date: Tue, 9 Aug 2011 11:43:24 -0600 (MDT)
To: gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/110808_1544.png



```
% /usr/local/bin/swinfo -o 334511102.477
Time(MET + UTCF -> UT):      334511102.477 + -7.240 -> 2011-08-08T15:44:55.237
Swift Zenith(RA,dec):        66.73, -8.69
Swift Location(lon,lat,alt):  -126.16 E, -8.66 N, 595 km
Obs Sequence Number:         00040842001
Obs Target Name:              RX J2340.4-5328
Obs Date and Times:           2011-08-08 15:34:55 - 15:48:52
Obs Pointing(ra,dec,roll):    355.120, -53.442, 136.96
```

--
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>

/tmp/110808_1544.png Content-Type: image/png
Content-Encoding: base64

/tmp/110808_1544_bat64ms_ipn

/tmp/110808_1544_bat64ms_ipn Content-Type: application/octet-stream
Content-Encoding: base64

Part 14

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

B

08/08/11

MESSENGER

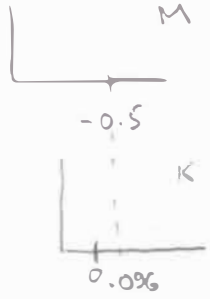
08/08/11

DOY 220

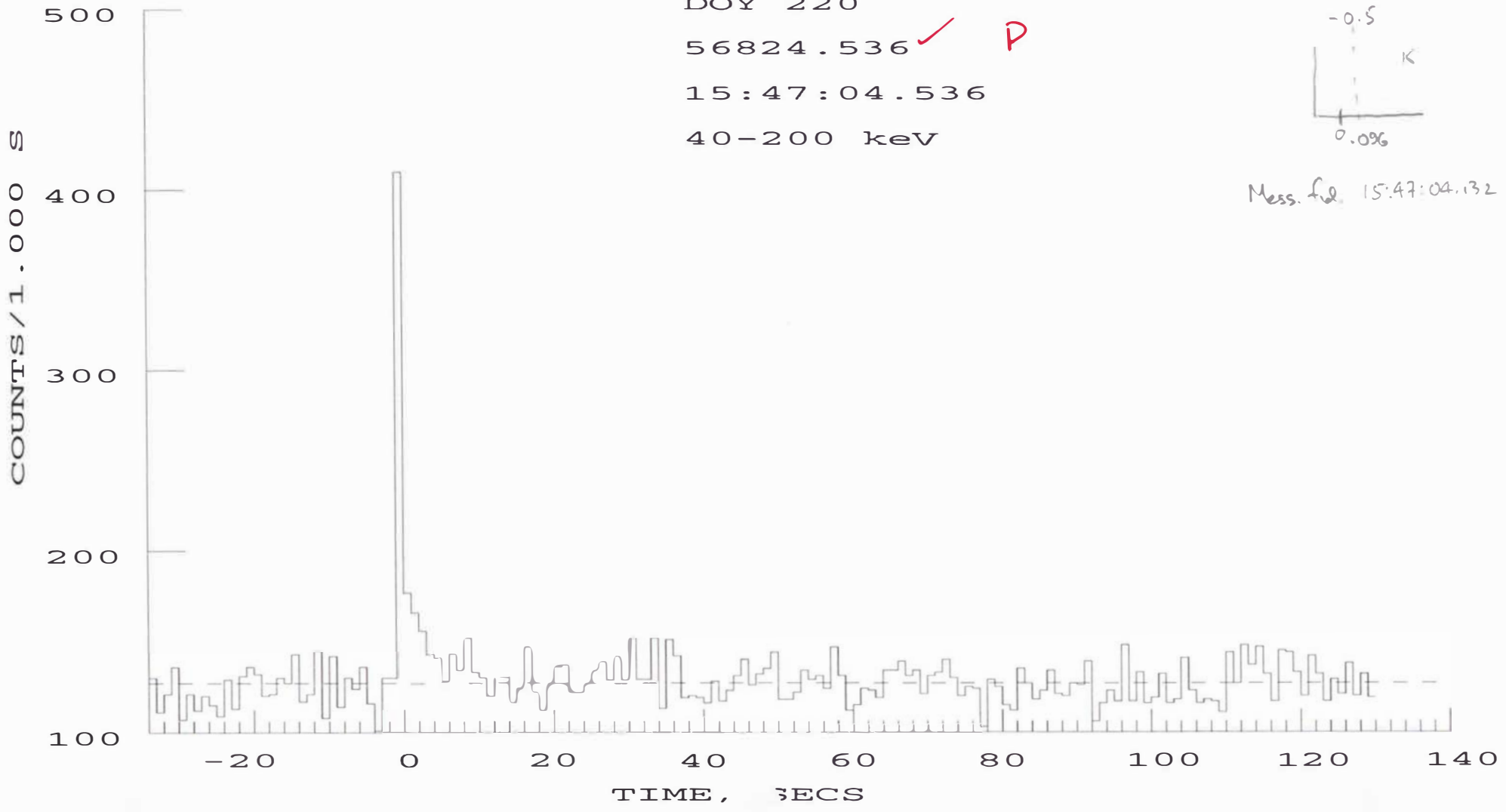
56824.536 ✓ P

15:47:04.536

40-200 keV



Mess. fid. 15:47:04.132



From yamaoka@phys.aoyama.ac.jp Wed Aug 10 23:28:46 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Thu, 11 Aug 2011 15:28:22 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: Kevin Hurley <khurley@ssl.berkeley.edu>
Cc: yamaoka@phys.aoyama.ac.jp, ipn@ssl.berkeley.edu
Subject: Re: [Ipn] GRB110808B
X-Ucb-Scan-Signature: e9c6f274c96f22764aa938bc829c9914f0c8b7ff
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.811'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Kevin and all,

This short burst was also detected by Suzaku WAM at the TRN mode.
The name server at our university was in a trouble,
so I recieved your e-mail lately.
Sorry for my late response.

Best wishes,
Kazu

On Wed, 10 Aug 2011 13:05:00 -0700 (PDT)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear IPNer's,
>
> GRB110808A at 56695.237 s has been detected by Konus, RHESSI, Odyssey,
> and MESSENGER so far. It appears to be a very intense, short-hard burst.
I have triangulated it to a relatively small error box :
>
> CENTER: 266.180818= 17 H 44 M 43.40 s -37.746307=-37.D-44.M-46.70S
> CORNERS: 266.049188=17 h 44 m 11.81 s -37.758618=-37 o 45 ' 31.02 "
> 266.345325=17 h 45 m 22.88 s -37.873204=-37 o 52 ' 23.54 "
> 266.016584=17 h 44 m 3.98 s -37.616926=-37 o 37 ' 0.93 "
> 266.312262=17 h 45 m 14.94 s -37.733247=-37 o 43 ' 59.69 "
>
> which is far from any of the known SGRs. I will draft a GCN Circular
> and request a Swift ToO.
>
> Kevin
>

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

From vxw@capella2.gsfc.nasa.gov Mon Aug 8 10:50:48 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Mon, 8 Aug 2011 13:51:25 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 136c15b4bb5cebf9fb601c41cac1afdb4cc79434
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.812'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Mon 08 Aug 11 17:51:20 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 458942, Seg_Num: 0
GRB_RA: 81.982d {+05h 27m 56s} (J2000),
82.073d {+05h 28m 18s} (current),
81.587d {+05h 26m 21s} (1950)
GRB_DEC: -41.711d {-41d 42' 38"} (J2000),
-41.702d {-41d 42' 05"} (current),
-41.750d {-41d 45' 01"} (1950)
GRB_DATE: 15781 TJD; 220 DOY; 11/08/08
GRB_TIME: 63466.99 SOD {17:37:46.99} UT
TRIGGER_INDEX: 155
GRB_PHI: -71.40 [deg]
GRB_THETA: 18.15 [deg]
DELTA_TIME: -63.00 [sec]
TRIGGER_DUR: 1.024 [sec]
SOLN_STATUS: 0x83
RATE_SIGNIF: 12.20 [sigma]
IMAGE_SIGNIF: 6.72 [sigma]
JC_URL: sw00458942000msb.lc
SUN_POSTN: 138.30d {+09h 13m 13s} +16.09d {+16d 05' 10"}
SUN_DIST: 77.62 [deg] Sun_angle= 3.7 [hr] (West of Sun)
MOON_POSTN: 253.75d {+16h 55m 00s} -23.25d {-23d 15' 06"}
MOON_DIST: 114.59 [deg]
MOON_ILLUM: 74 [%]
GAL_COORDS: 246.95,-32.70 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS: 75.87,-64.76 [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. **No**
COMMENTS: Since ~~the~~ IMAGE_SIGNIF is less than 7 sigma, this is a question
COMMENTS: This trigger occurred at longitude,latitude = 257.88,-19.97 [de

From gcncirc@capella2.gsfc.nasa.gov Mon Aug 8 11:12:39 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: Swift Trigger 458942 is probably not a burst
cc: khurley@ssl.berkeley.edu
Date: Mon, 8 Aug 2011 14:13:10 -0400 (EDT)
X-Ucb-Scan-Signature: 43fffeleda143ef8b4c499fbf50e4865aa0b97d1a
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.812'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 12263
SUBJECT: Swift Trigger 458942 is probably not a burst
DATE: 11/08/08 18:13:08 GMT
FROM: Scott Barthelmy at NASA/GSFC <scott@milkyway.gsfc.nasa.gov>

S. D. Barthelmy (GSFC), W. H. Baumgartner (GSFC/UMBC),
M. M. Chester (PSU), J. R. Cummings (NASA/UMBC), V. D'Elia (ASDC),
S. T. Holland (CRESST/USRA/GSFC), C. B. Markwardt (NASA/GSFC),
F. E. Marshall (NASA/GSFC), A. Melandri (INAF-OAB),
D. M. Palmer (LANL), T. A. Pritchard (PSU), P. Romano (INAF-IASFPA),
T. Sakamoto (NASA/UMBC), C. J. Saxton (UCL-MSSL),
B. Sbarufatti (INAF-OAB/IASFPA) and G. Stratta (ASDC) report on behalf
of the Swift Team:

At 17:37:46 UT, the Swift Burst Alert Telescope (BAT) triggered
on what is probably noise while entering the SAA. This is probably
not a GRB or anything astrophysical.

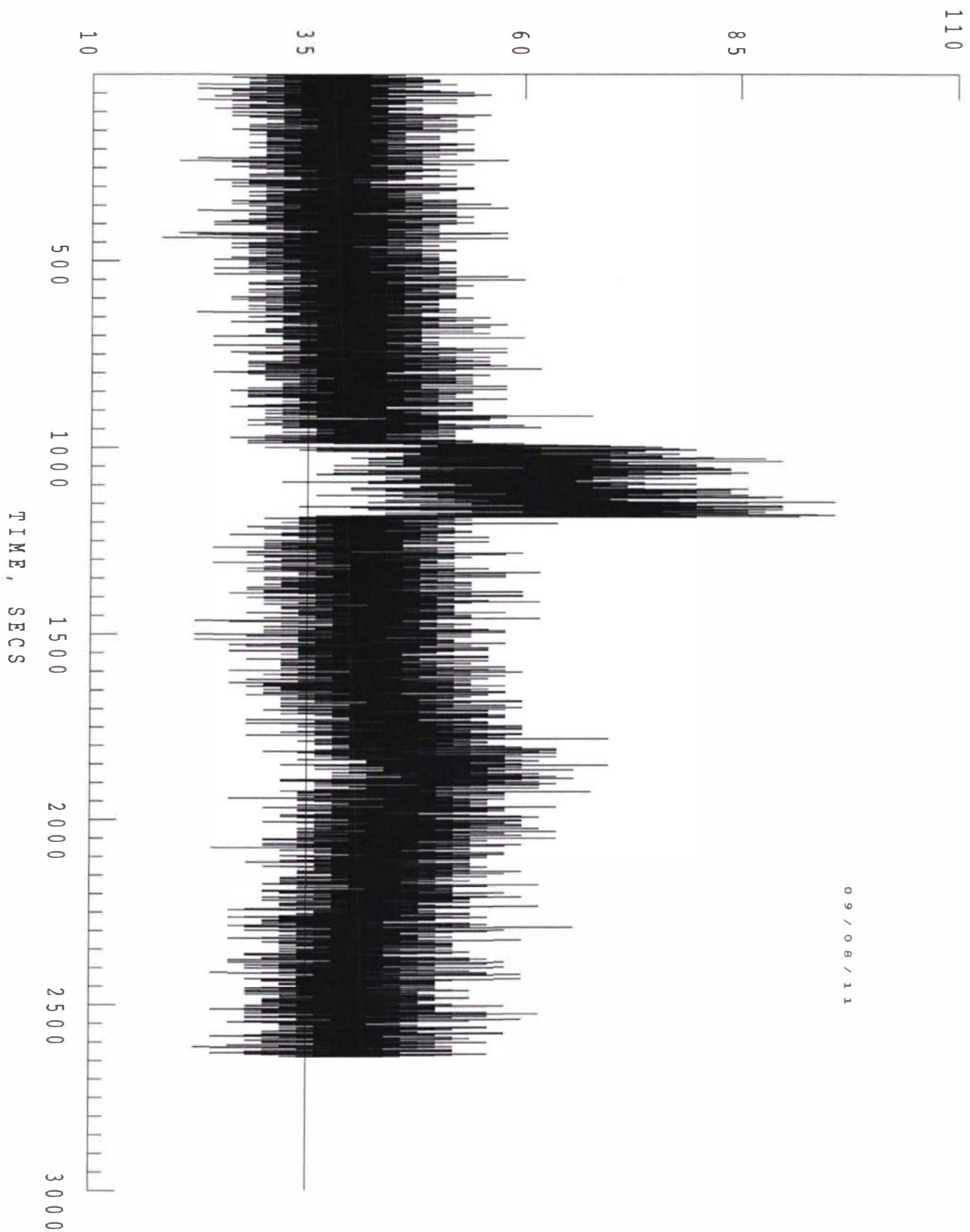
MS01

08/08/11

62123.111

50 - 3000 keV

COUNTS/0.250 S



09/08/11

08/08/11

MESSENGER

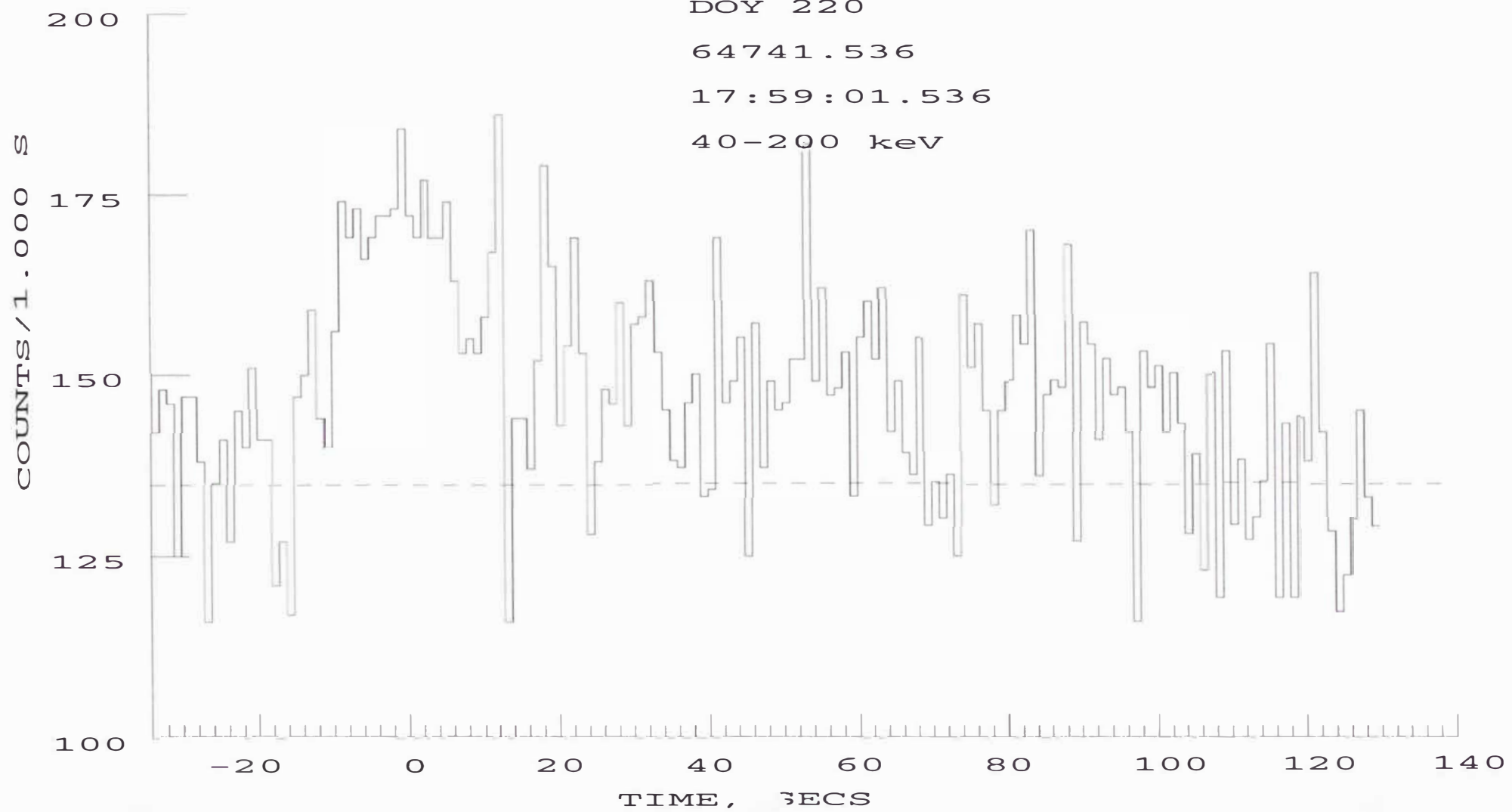
08/08/11

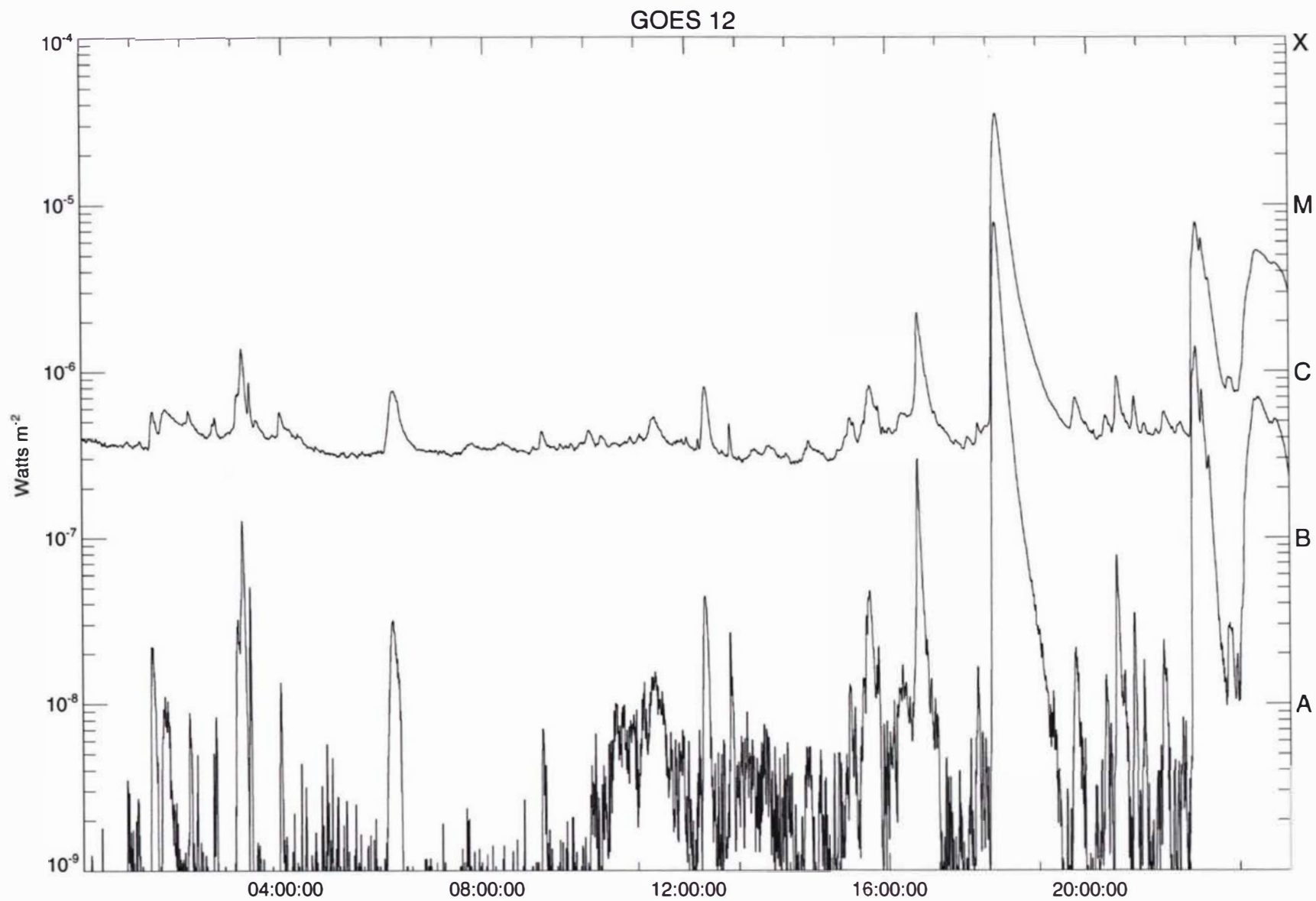
DOY 220

64741.536

17:59:01.536

40-200 keV





Data Start: 11/08/08, 0000:09

Plot created: 11/08/11, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

A

KONUS2

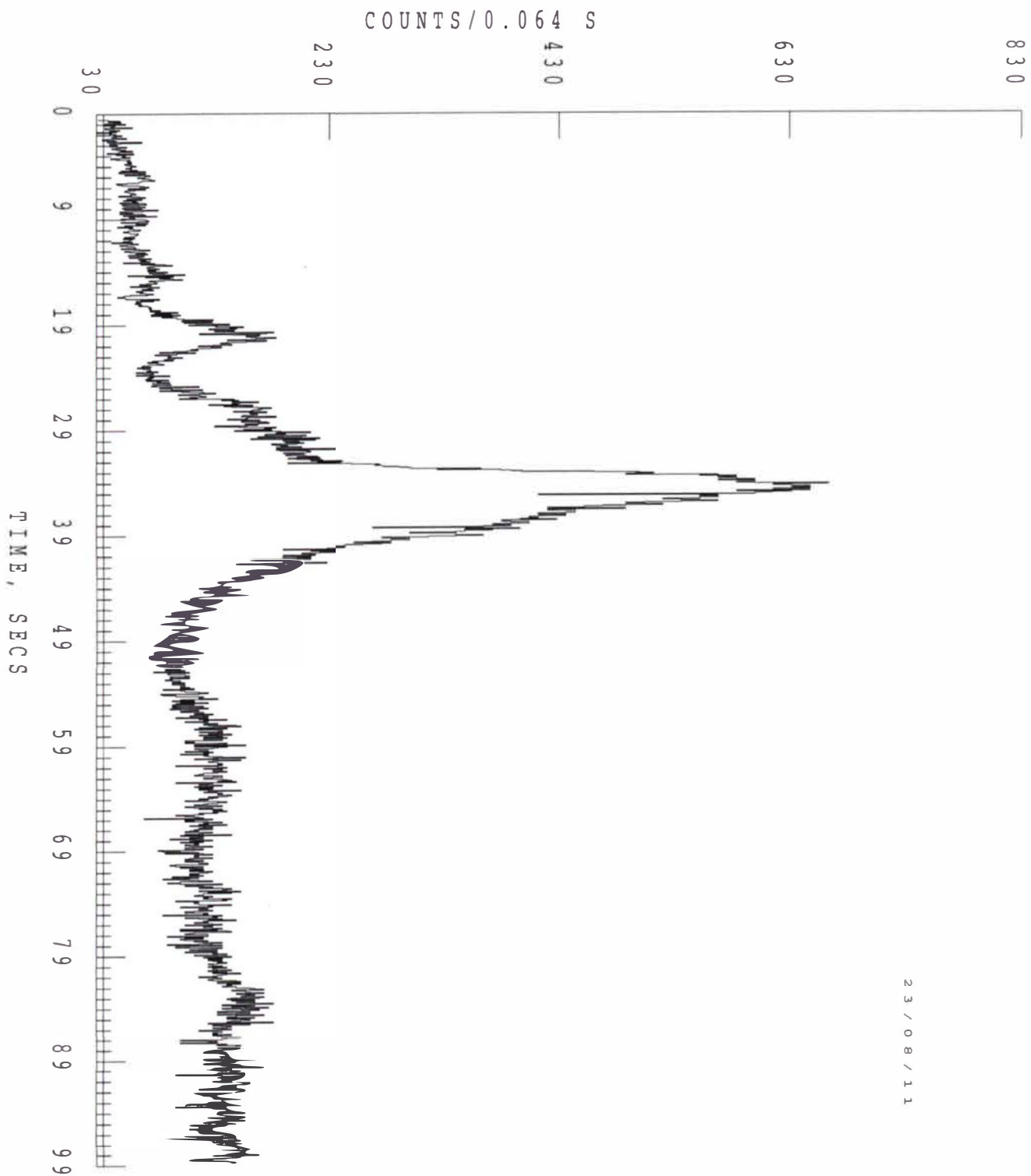
09/08/11

28888.310

08:01:28

50 - 200 keV

Solar



KONUS HRES 20110809 28888

TRIGGER TIME: 09/08/11 DOY 221 Julian 2455783.83435 UT = 08.024 08:01:28 (28888.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

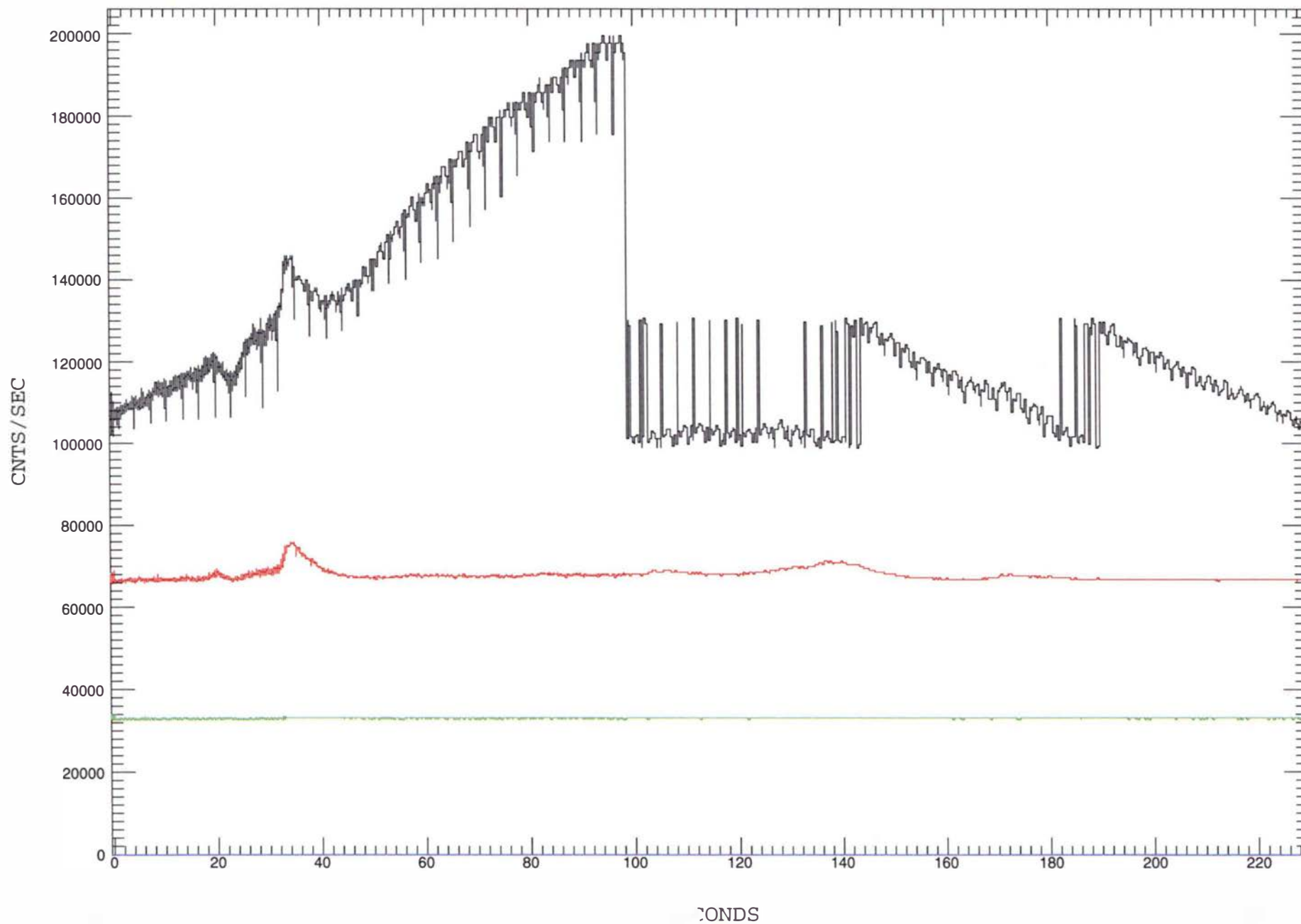
Chan 4 : [> 10 MeV]

Channel 1 + 99300

Channel 2 + 66200

Channel 3 + 33100

Channel 4 + 0



A

Subject: [lpn] BAT lightcurve for trigger at 110809_0801

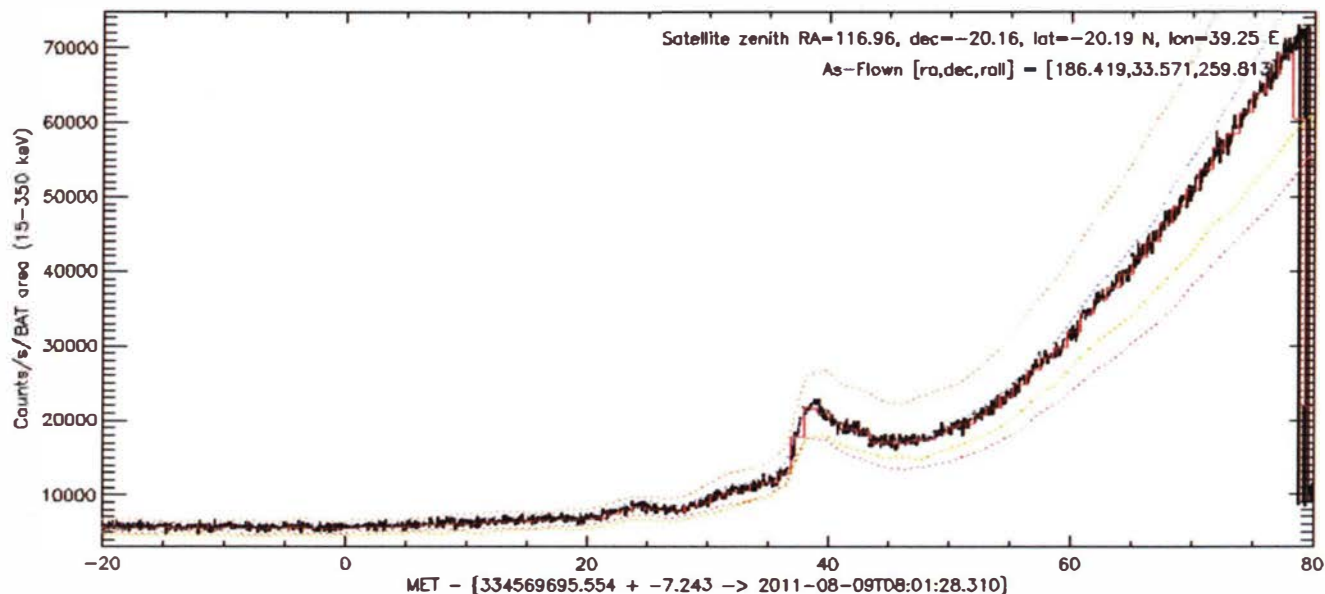
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 9 Aug 2011 11:44:09 -0600 (MDT)

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

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

/tmp/110809_0801.png



```
% /usr/local/bin/swinfo -o 334569695.553
Time(MET + UTC -> UT):      334569695.554 + -7.243 -> 2011-08-09T08:01:28.310
Swift Zenith(RA,dec):       116.96, -20.16
Swift Location(lon,lat,alt): 39.25 E, -20.19 N, 596 km
Obs Sequence Number:        00032054002
Obs Target Name:             NGC 4395
Obs Date and Times:          2011-08-09 08:01:15 - 08:45:53
Obs Pointing(ra,dec,roll):   186.419, 33.571, 259.81
```

--
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>

/tmp/110809_0801_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110809_0801.png

/tmp/110809_0801.png

Content-Type: image/png
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

A

08/08/11

MESSENGER

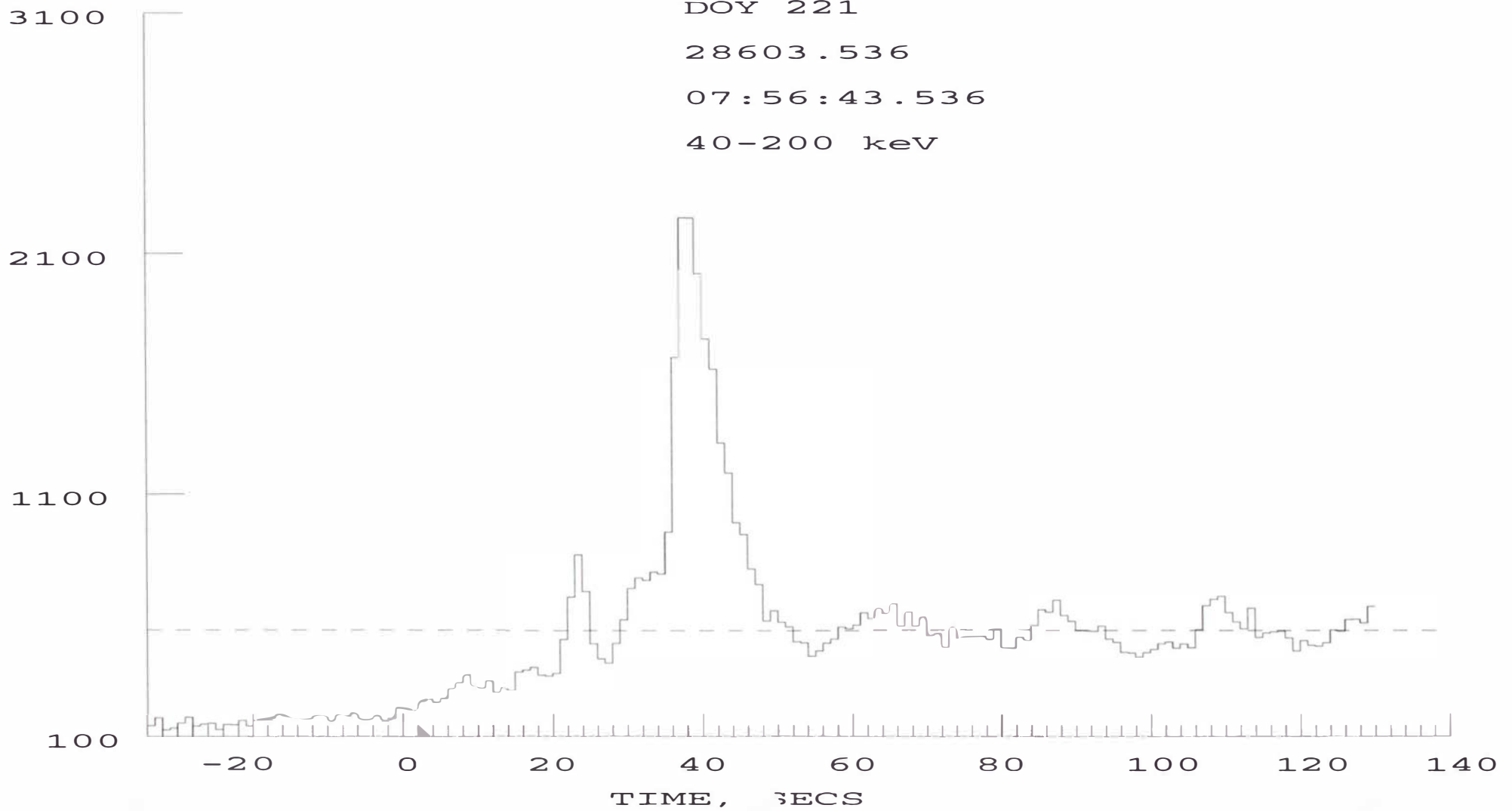
09/08/11

DOY 221

28603.536

07:56:43.536

40-200 keV



SUZAKU

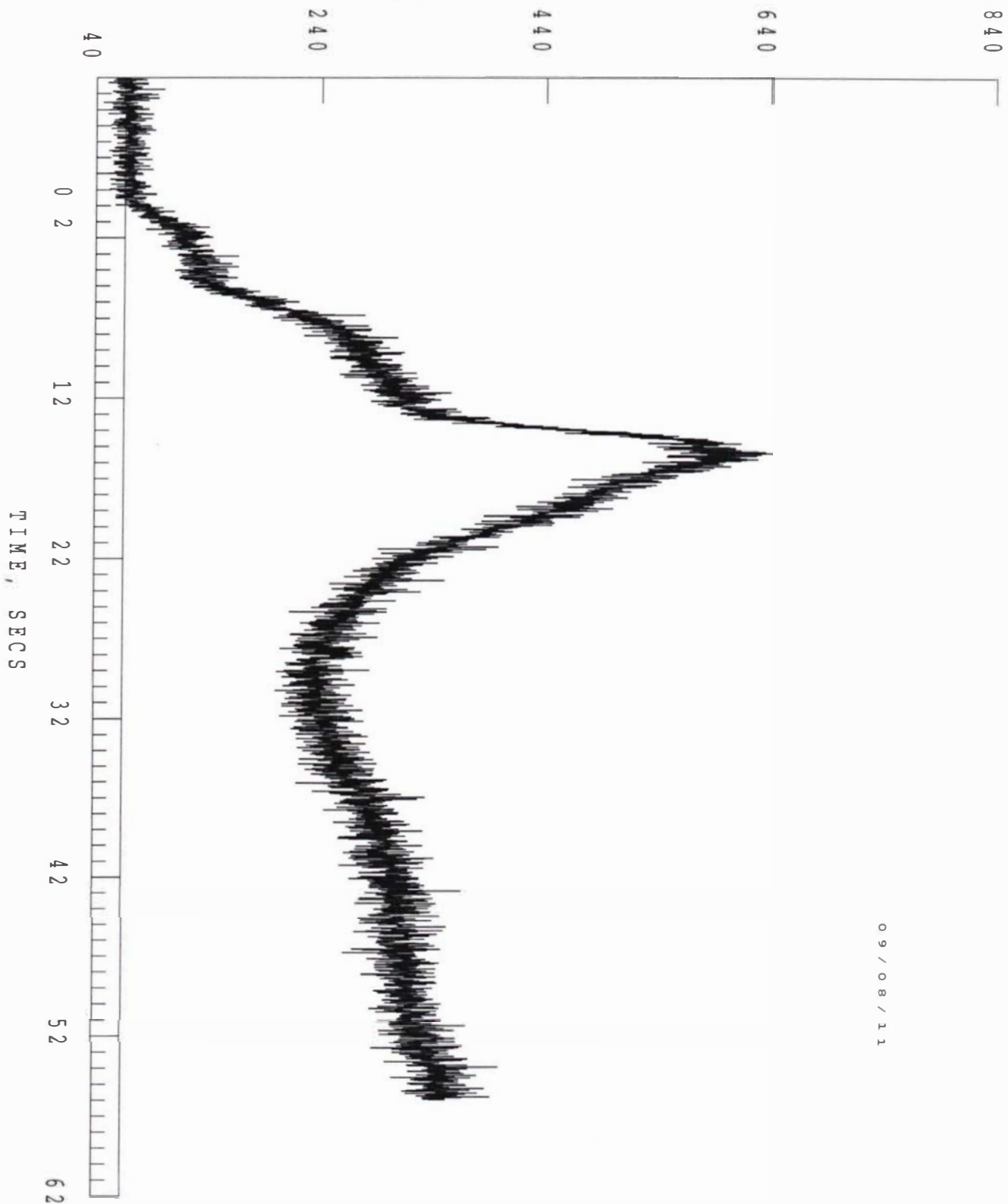
09/08/11

28911.606 08:01:51

A

50 - 240 keV

COUNTS/0.016 S



A

MS01

09/08/11

27562.240

50 - 3000 keV

COUNTS/0.250 S

120

170

20

500

1000

1500

2000

2500

3000

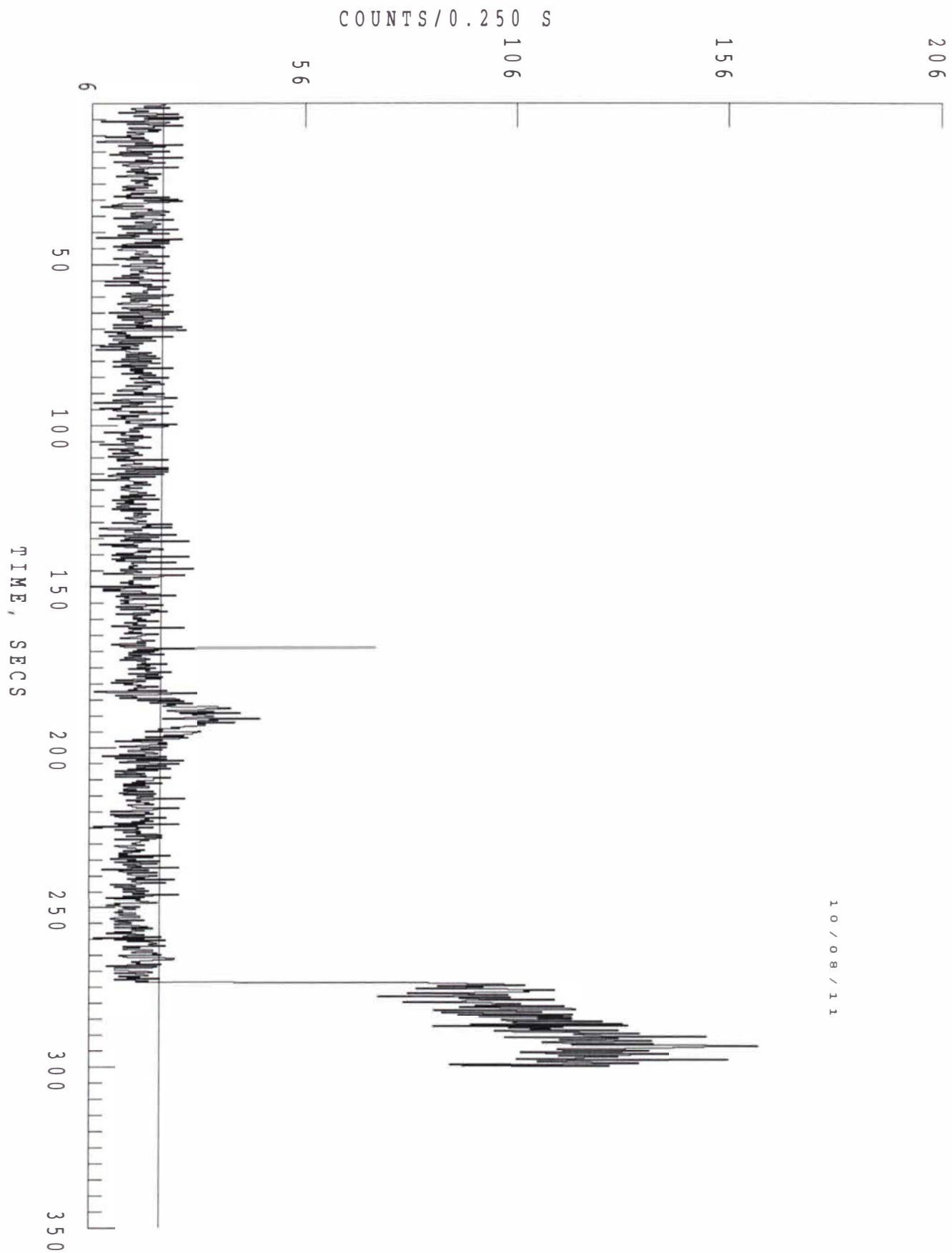
TIME, SECS

10/08/11

HESSI

09/08/11 28738.000 (KONUS2_20110809_28888)

25 - 150 keV



A

08/08/11

MESSENGER

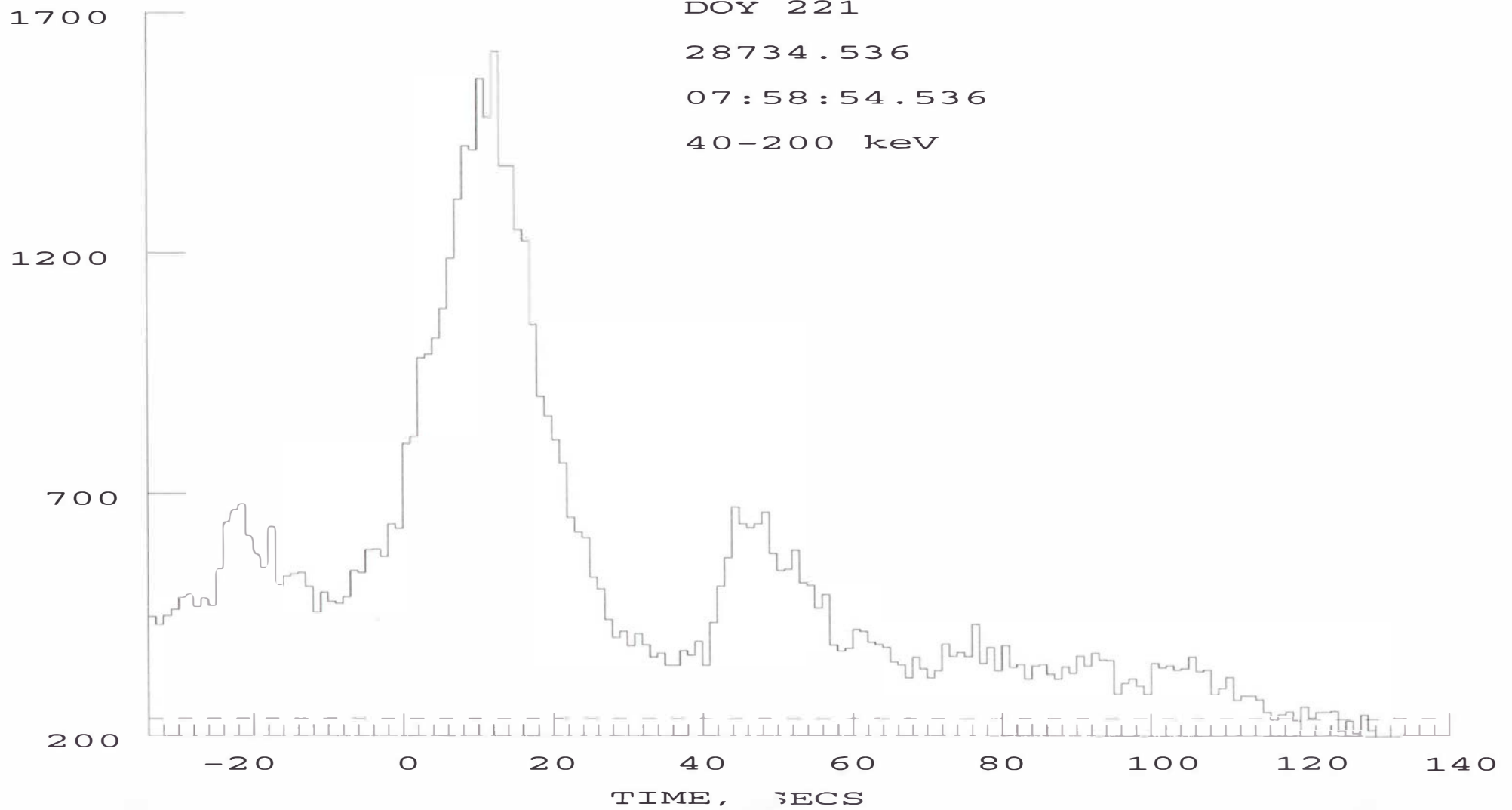
09/08/11

DOY 221

28734.536

07:58:54.536

40-200 keV



K cm²

08/08/11

MESSENGER

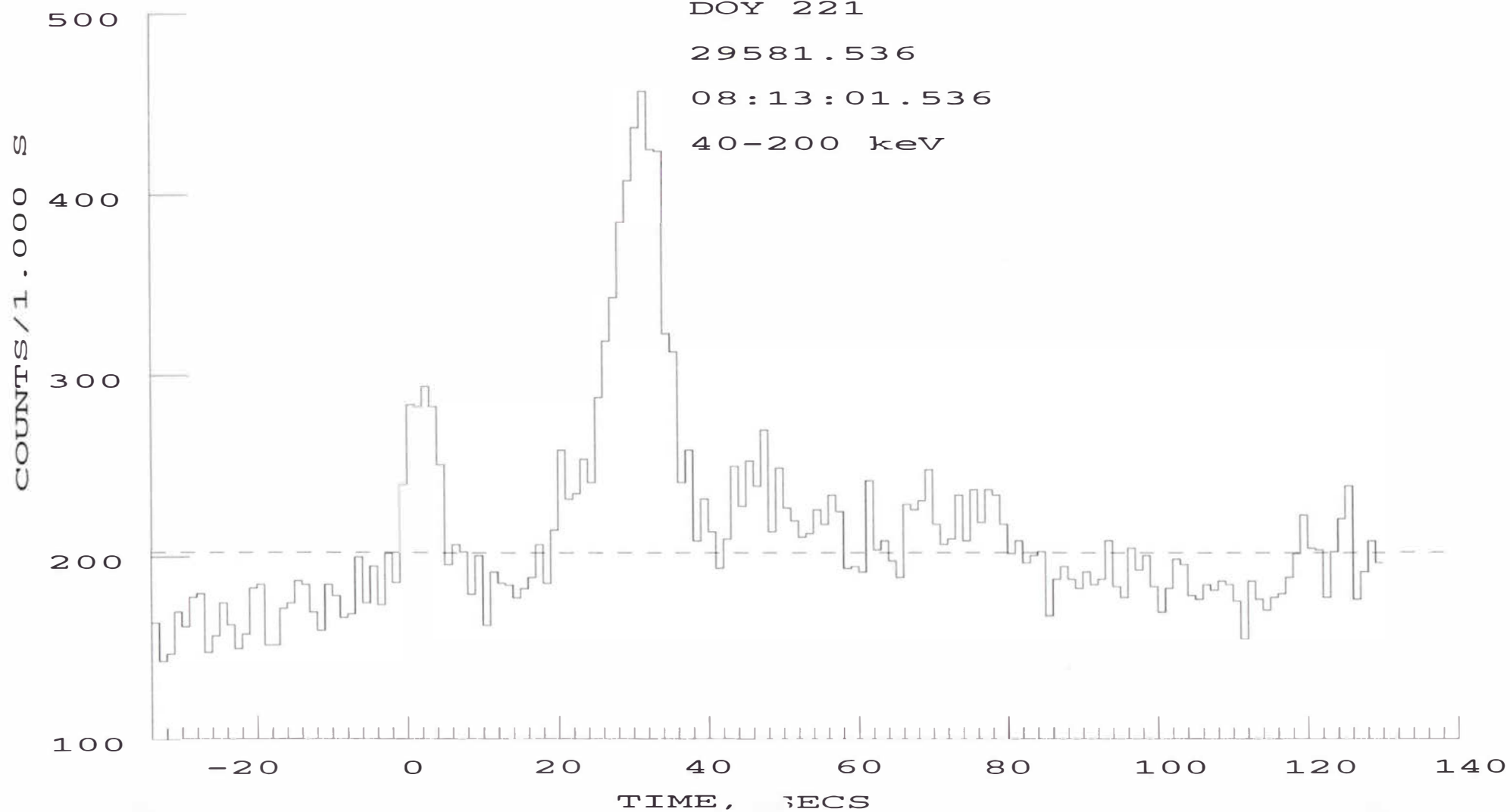
09/08/11

DOY 221

29581.536

08:13:01.536

40-200 keV



Subject: [lbn] BAT lightcurve for trigger at 110809_0801

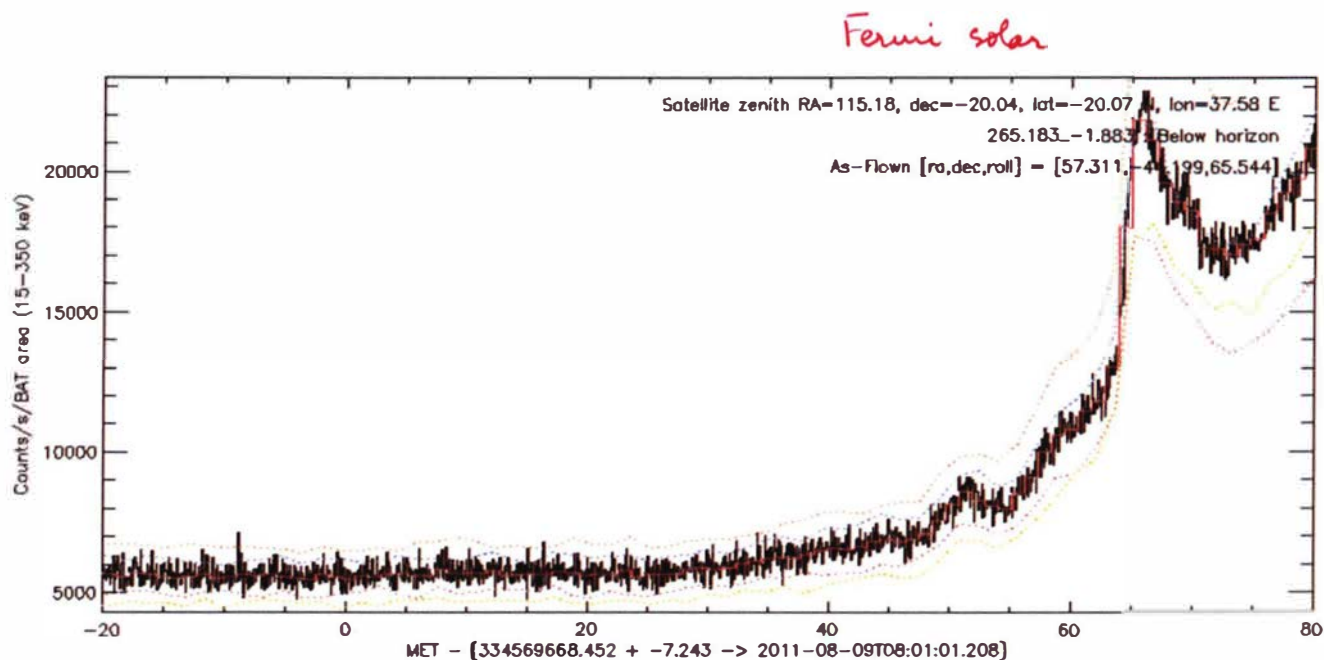
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 9 Aug 2011 06:18:26 -0600 (MDT)

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

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

/tmp/110809_0801.png



```
% /usr/local/bin/swinfo -o 334569668.450 -s 138.367 8.417
Time(MET + UTCF -> UT): 334569668.451 + -7.243 -> 2011-08-09T08:01:01.207
Swift Zenith(RA,dec): 115.18, -20.04
Swift Location(lon,lat,alt): 37.58 E, -20.07 N, 597 km
Obs Sequence Number: 00458918005
Obs Target Name: GRB 110808A
Obs Date and Times: 2011-08-09 07:55:54 - 08:01:12
Obs Pointing(ra,dec,roll): 57.311, -44.199, 65.54
138.367_8.417_imageloc (boresight_dist, angle): (90, -78)
138.367_8.417_exposure (cm² cos adjusted): 0
138.367_8.417_altitude: 77 (up)

% /usr/local/bin/swinfo -o 334569668.450 -s 138.450 8.350
Time(MET + UTCF -> UT): 334569668.451 + -7.243 -> 2011-08-09T08:01:01.207
Swift Zenith(RA,dec): 115.18, -20.04
Swift Location(lon,lat,alt): 37.58 E, -20.07 N, 597 km
Obs Sequence Number: 00458918005
Obs Target Name: GRB 110808A
Obs Date and Times: 2011-08-09 07:55:54 - 08:01:12
Obs Pointing(ra,dec,roll): 57.311, -44.199, 65.54
138.450_8.350_imageloc (boresight_dist, angle): (90, -78)
138.450_8.350_exposure (cm² cos adjusted): 0
138.450_8.350_altitude: 77 (up)

% /usr/local/bin/swinfo -o 334569668.451 -s 153.800 13.667
Time(MET + UTCF -> UT): 334569668.452 + -7.243 -> 2011-08-09T08:01:01.208
Swift Zenith(RA,dec): 115.18, -20.04
Swift Location(lon,lat,alt): 37.58 E, -20.07 N, 597 km
Obs Sequence Number: 00458918005
Obs Target Name: GRB 110808A
Obs Date and Times: 2011-08-09 07:55:54 - 08:01:12
Obs Pointing(ra,dec,roll): 57.311, -44.199, 65.54
153.800_13.667_imageloc (boresight_dist, angle): (104, -71)
153.800_13.667_exposure (cm² cos adjusted): 0
153.800_13.667_altitude: 63 (up)

% /usr/local/bin/swinfo -o 334569668.451 -s 166.567 12.733
Time(MET + UTCF -> UT): 334569668.452 + -7.243 -> 2011-08-09T08:01:01.208
Swift Zenith(RA,dec): 115.18, -20.04
```

[Ipn] BAT lightcurve for trigger at 110809_0801

```
Swift Location(lon,lat,alt): 37.58 E, -20.07 N, 597 km
Obs Sequence Number: 00458918005
Obs Target Name: GRB 110808A
Obs Date and Times: 2011-08-09 07:55:54 - 08:01:12
Obs Pointing(ra,dec,roll): 57.311, -44.199, 65.54
166.567_12.733_imageloc (boresight_dist, angle): (113, -61)
166.567_12.733_exposure (cm^2 cos adjusted): 0
166.567_12.733_altitude: 54 (up)

% /usr/local/bin/swinfo -o 334569668.451 -s 265.183 -1.883
Time(MET + UTCF -> UT): 334569668.452 + -7.243 -> 2011-08-09T08:01:01.208
Swift Zenith(RA,dec): 115.18, -20.04
Swift Location(lon,lat,alt): 37.58 E, -20.07 N, 597 km
Obs Sequence Number: 00458918005
Obs Target Name: GRB 110808A
Obs Date and Times: 2011-08-09 07:55:54 - 08:01:12
Obs Pointing(ra,dec,roll): 57.311, -44.199, 65.54
265.183_-1.883_imageloc (boresight_dist, angle): (128, 61)
265.183_-1.883_exposure (cm^2 cos adjusted): 0
265.183_-1.883_altitude: -29 (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>

/tmp/110809_0801_bat64ms_ipn	Content-Type:	application/octet-stream
	Content-Encoding:	base64

/tmp/110809_0801.png

/tmp/110809_0801.png	Content-Type:	image/png
	Content-Encoding:	base64

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

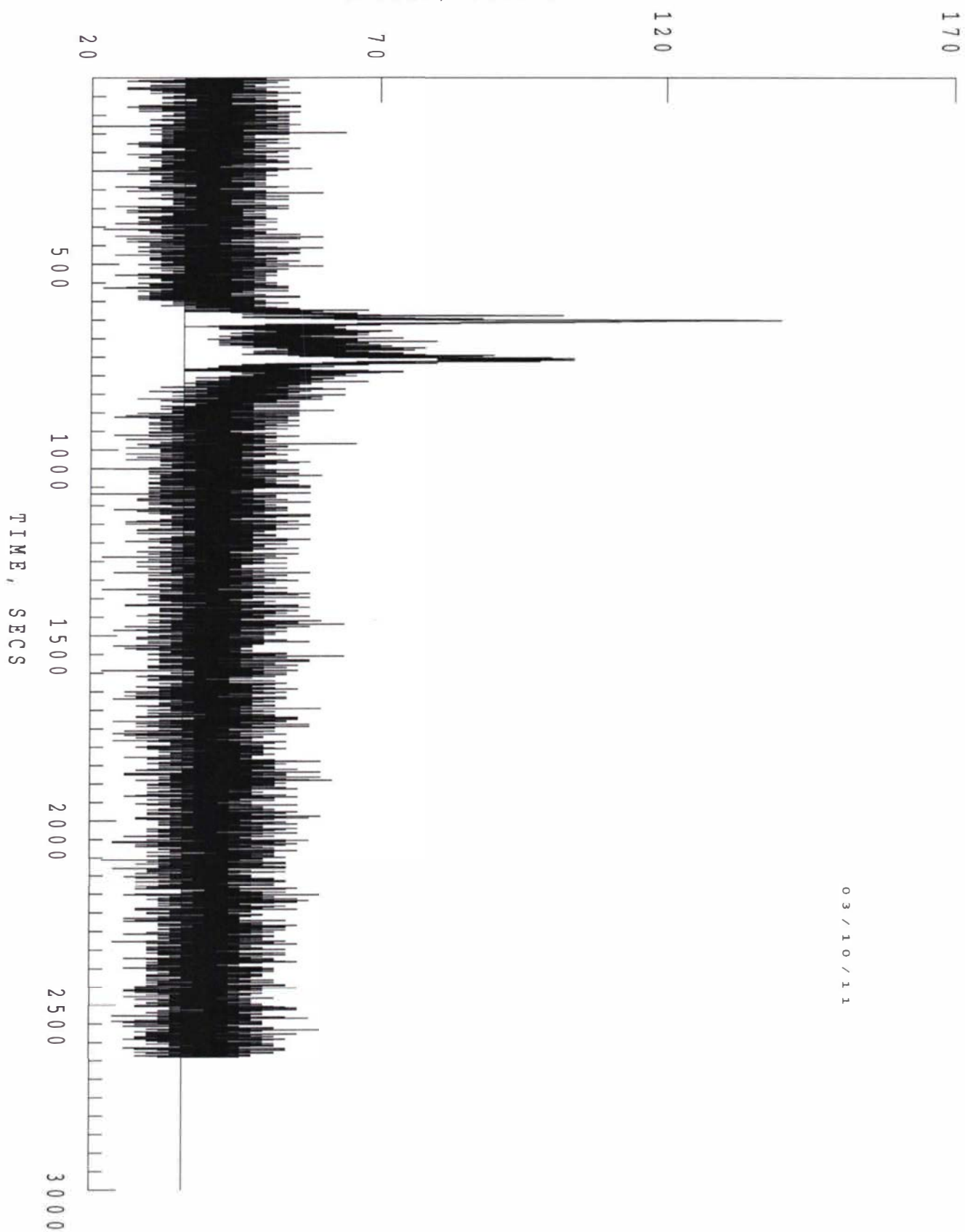
MS01

09/08/11

28522.224

50 - 3000 keV

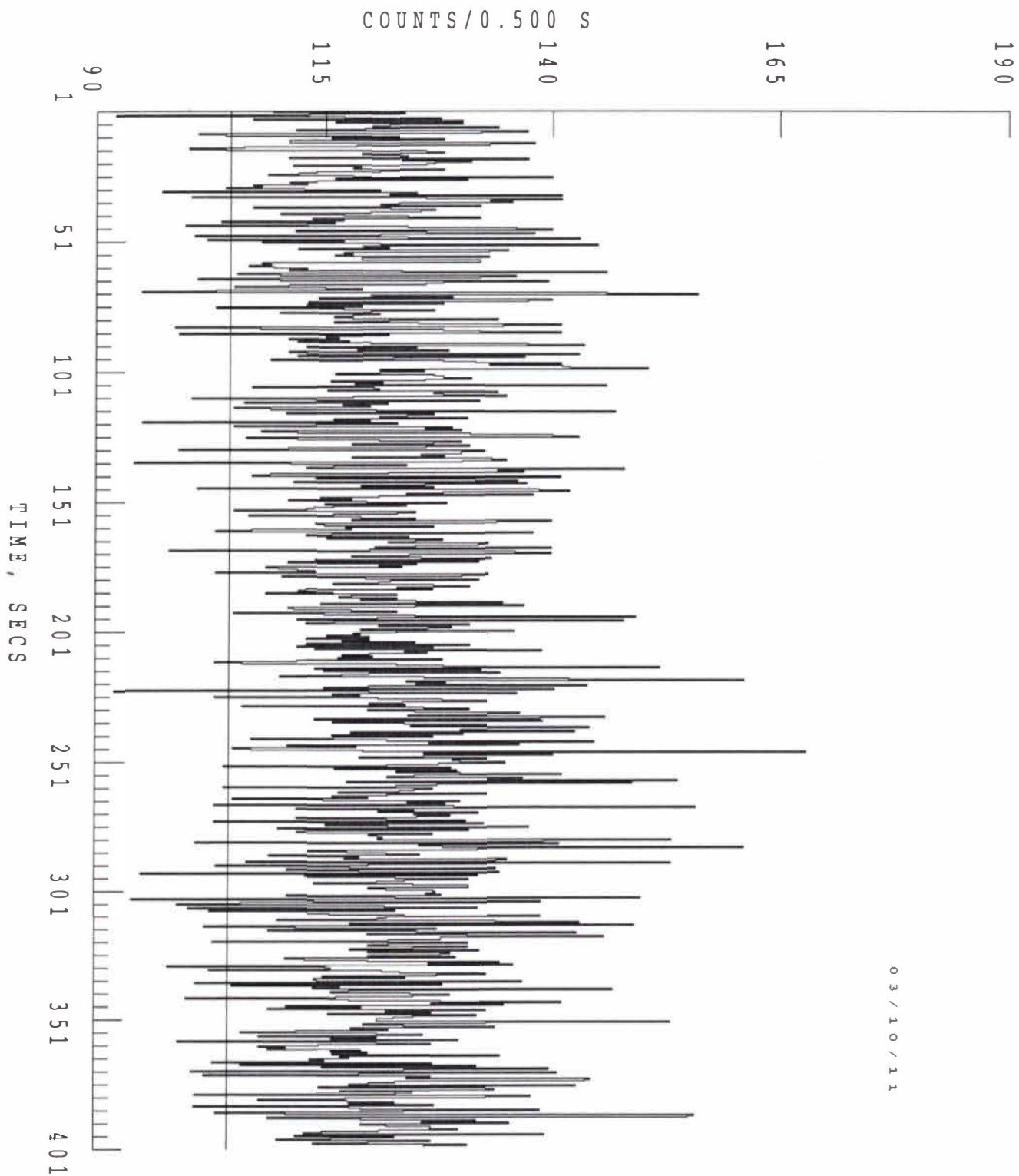
COUNTS/0.250 S



HESSI

09/08/11 29661.000 (SUZAKU_20110809_29861)

25- 150 keV



GLAST

09/08/11

39814.004

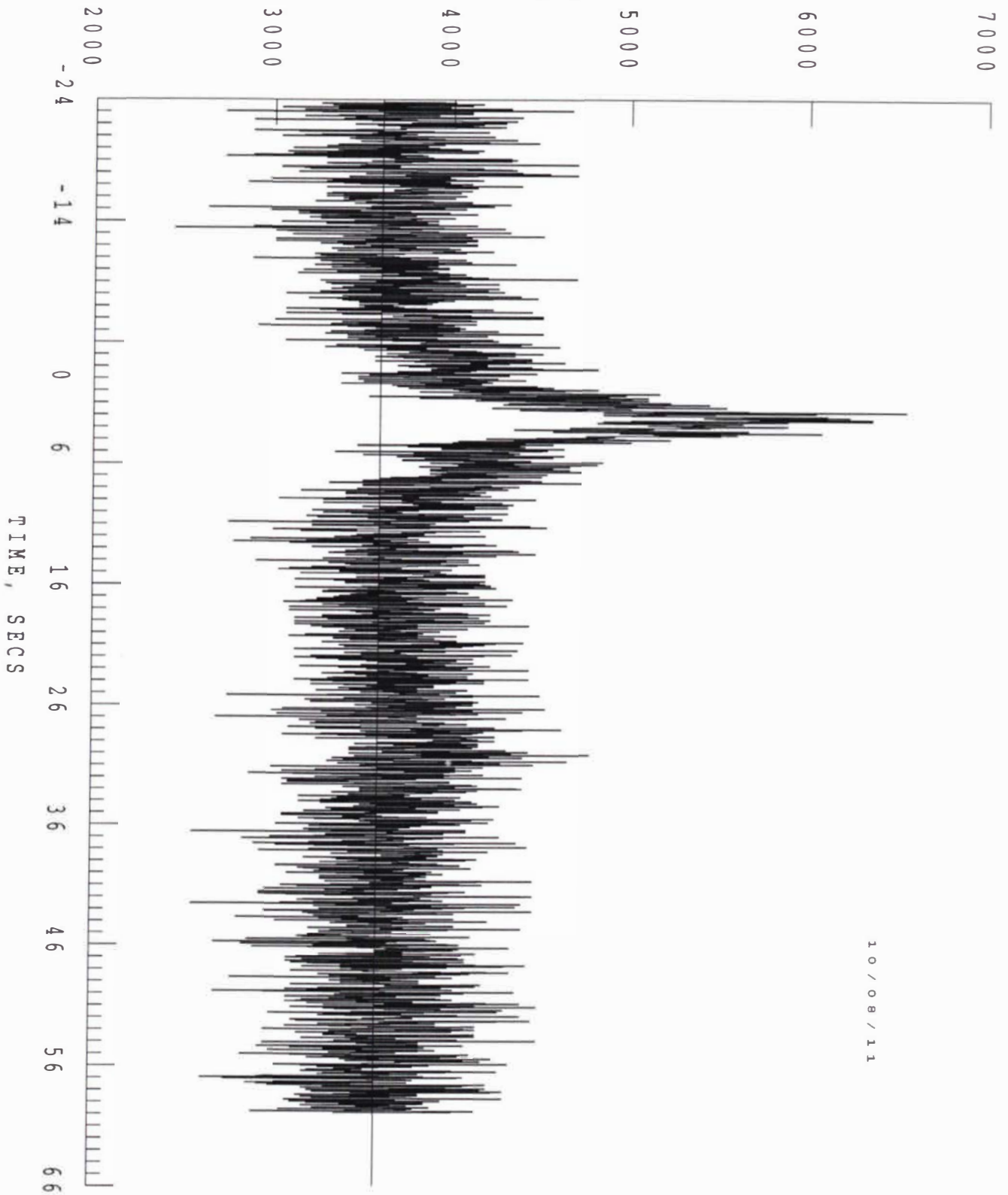
B

26 - 293 keV

11:03:34

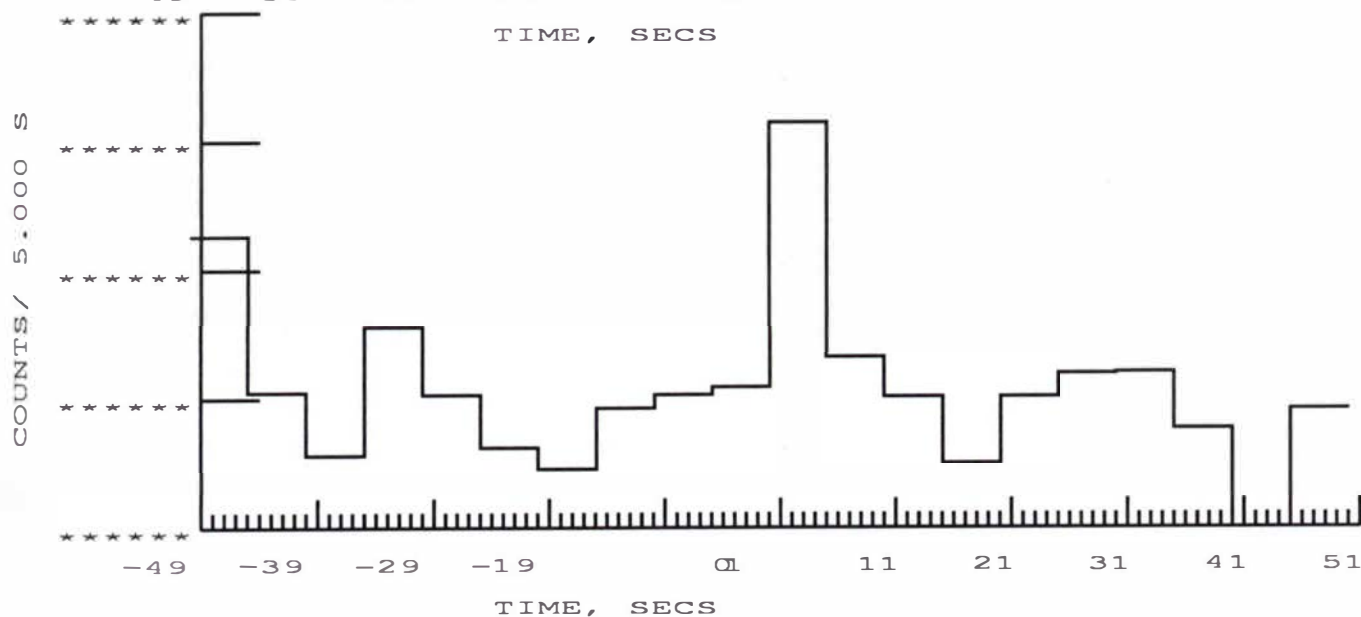
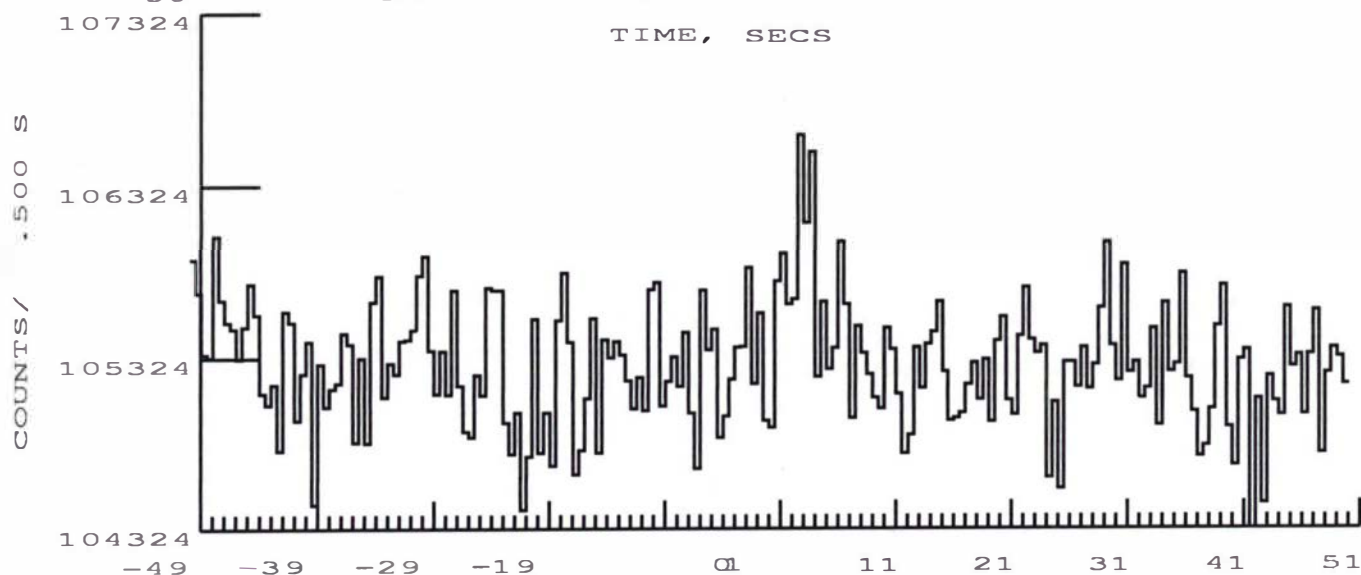
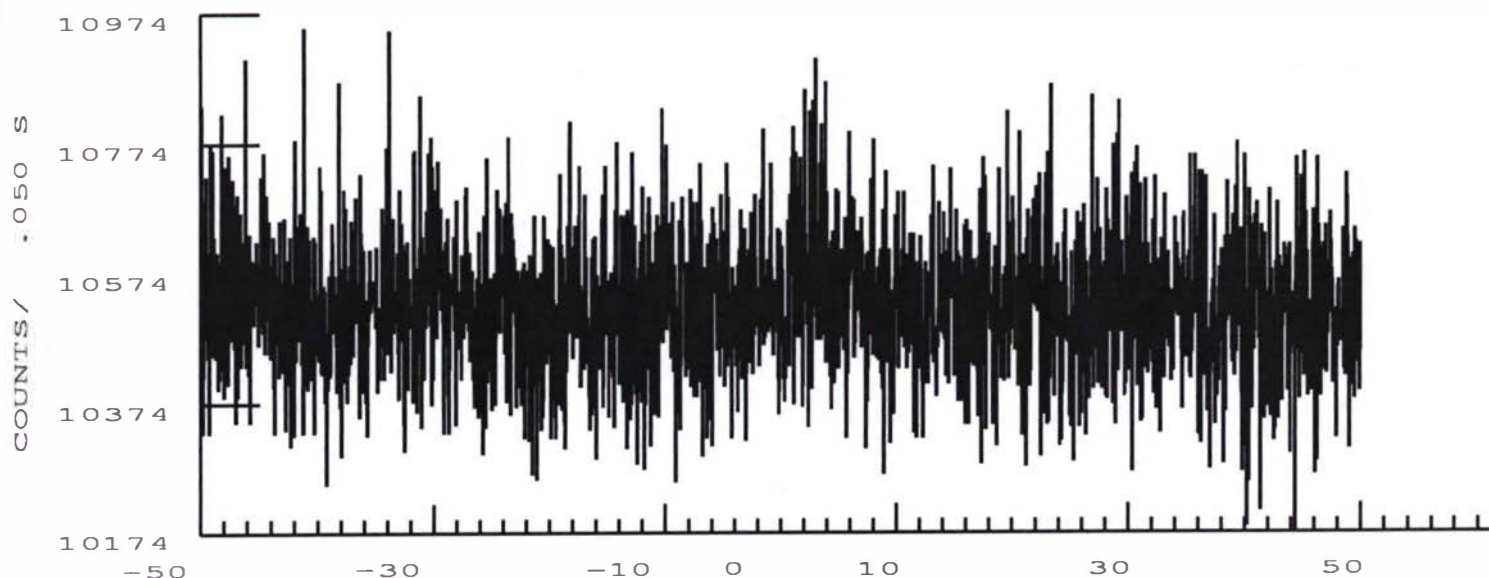
172.17, -12.07, 1.84

COUNTS/0.032 S



B

INTEGRAL 09/08/11 39814.000 11:03:34.0 20/01/14



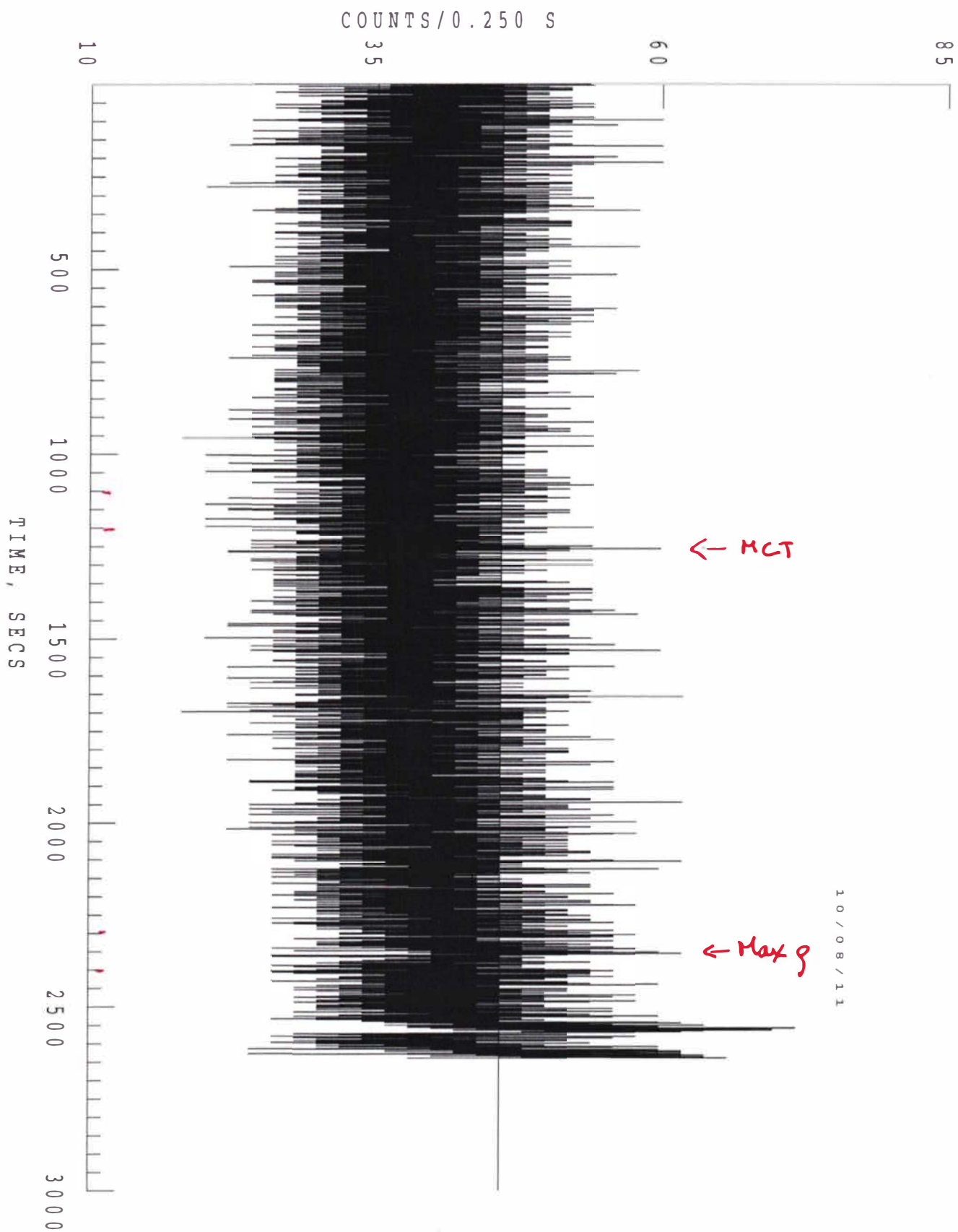
MS01

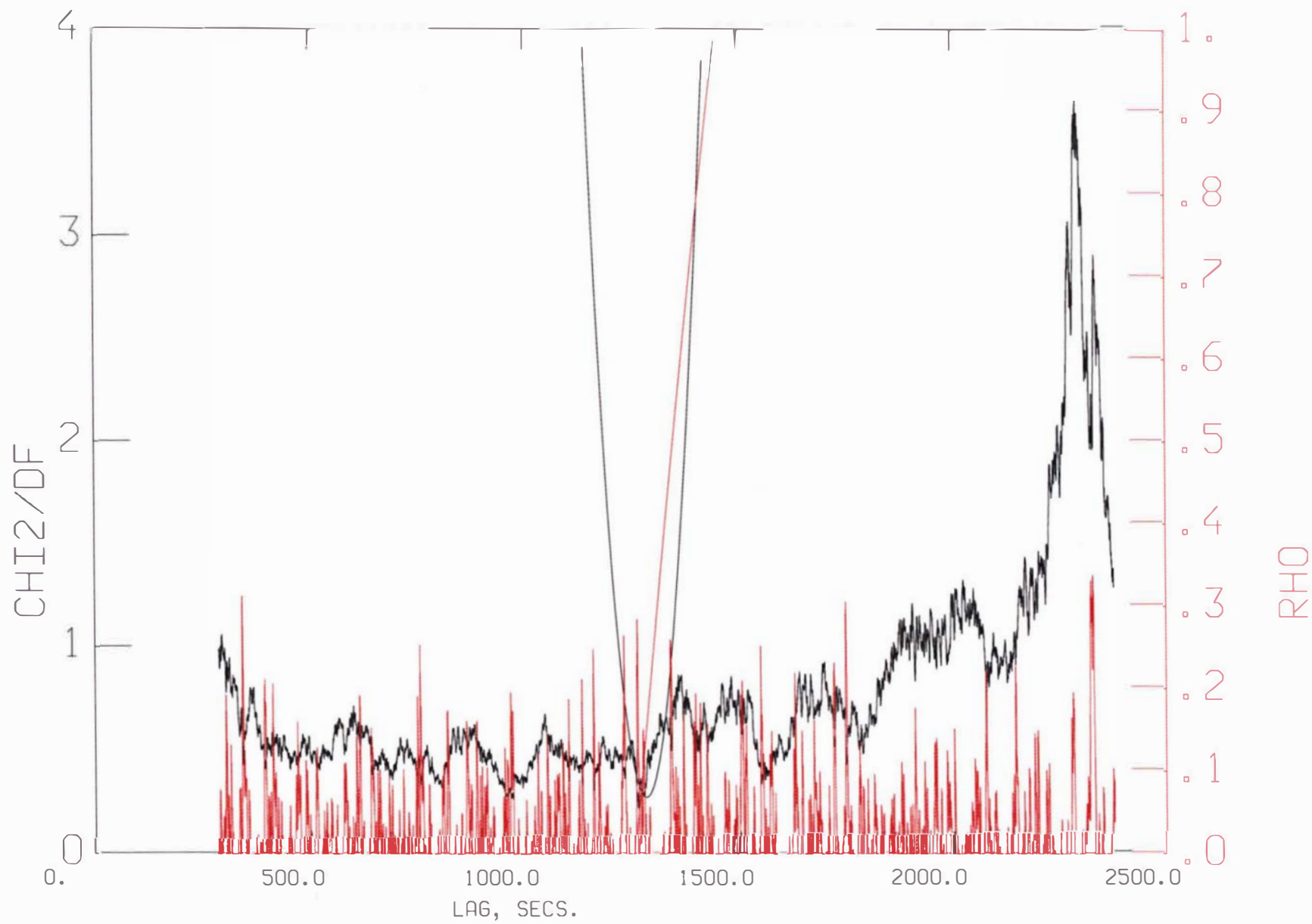
09/08/11

38482.060

50 - 3000 keV

13

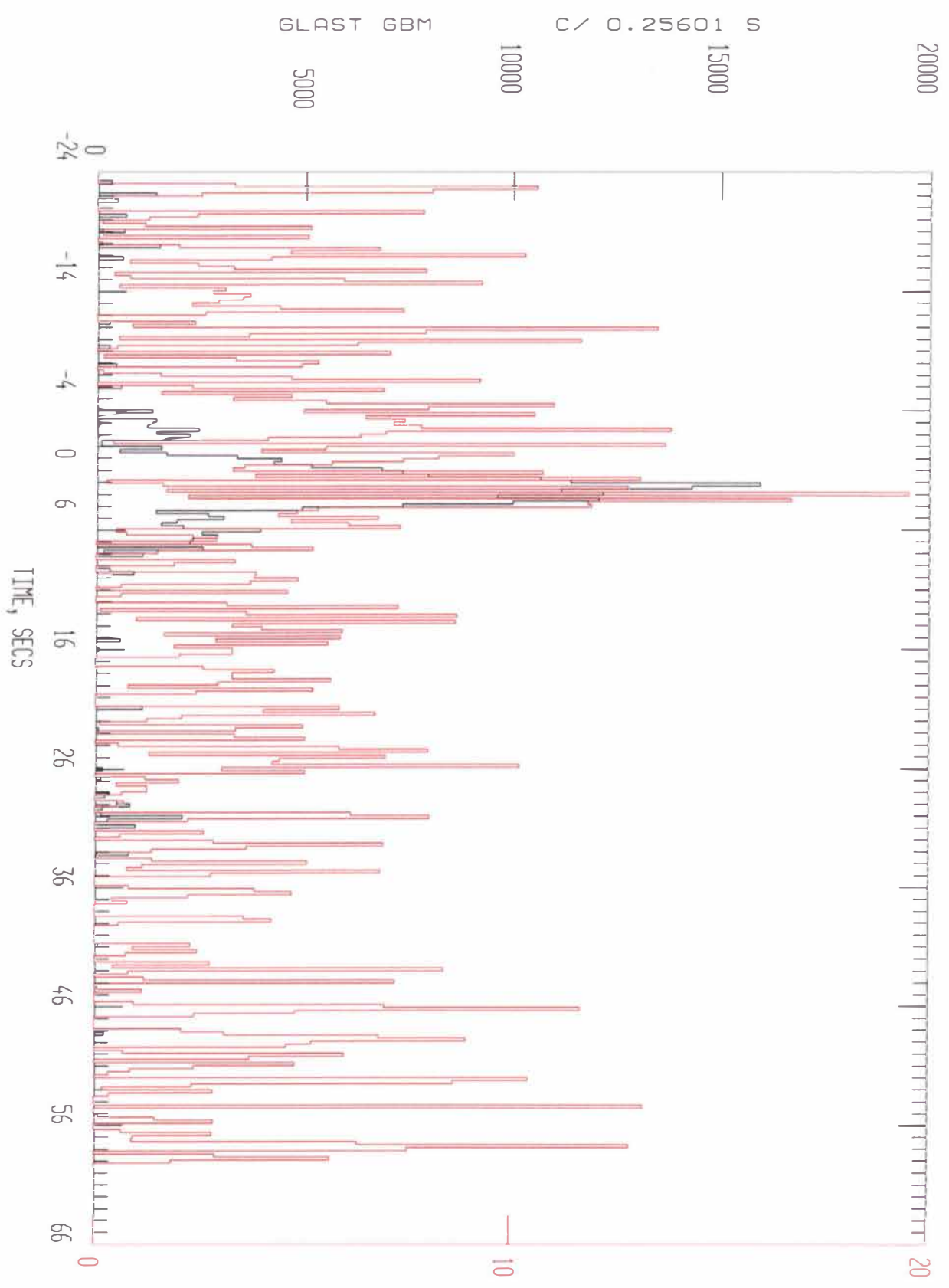




B

GLAST GBM -MS01 HEND CORRELATION 09/08/11 39814.004

28/ 9/11



From williams@gammaburst.ssl.berkeley.edu Sun Aug 14 23:03:14 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Sun, 14 Aug 2011 23:02:29 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>

To: khurley@ssl.berkeley.edu

Subject: No_RHESSI_data_for_GLAST_20110809_39814

X-Ucb-Scan-Signature: 9332939c711d25e0e1bbc9a9fd1c60d742e7be79

X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -1.071'

X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 14-Aug-2011 23:02:48.00
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

B

Subject: [lpn] BAT lightcurve for trigger at 110809_1103

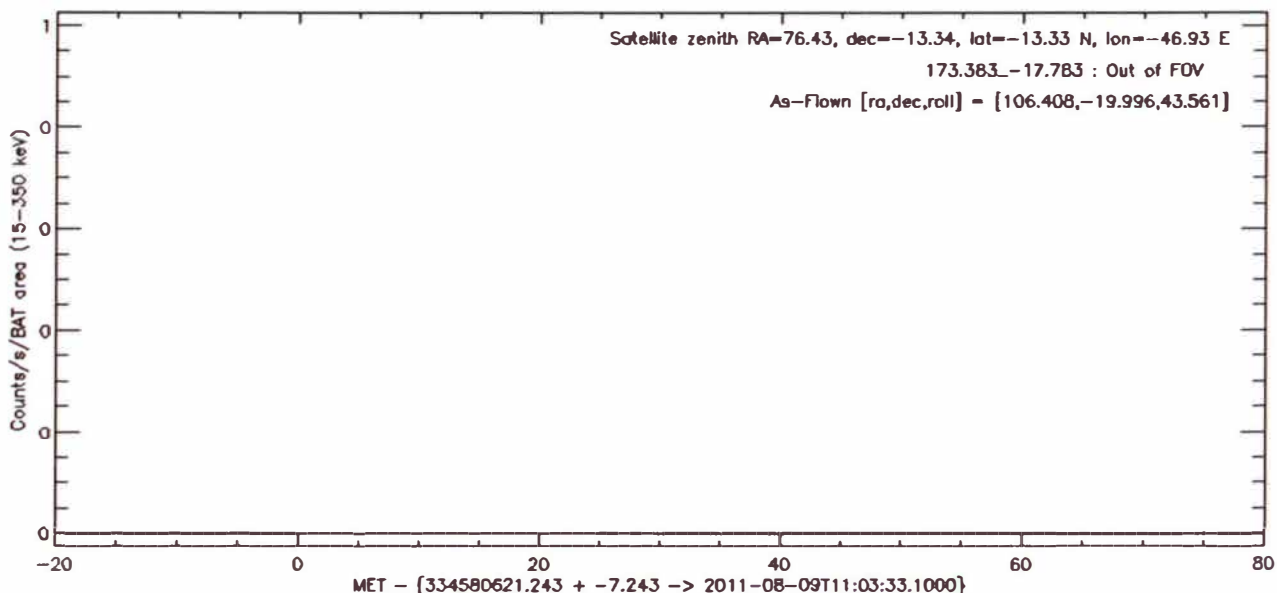
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 9 Aug 2011 07:18:25 -0600 (MDT)

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

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

/tmp/110809_1103.png



```
% /usr/local/bin/swinfo -o 334580621.243 -s 172.170 -13.930
Time(MET + UTCF -> UT): 334580621.243 + -7.243 -> 2011-08-09T11:03:33.1000
Swift Zenith(RA,dec): 76.43, -13.34
Swift Location(lon,lat,alt): -46.93 E, -13.33 N, 596 km
Obs Sequence Number: 00074105063
Obs Target Name: saa-cold-221-02
Obs Date and Times: 2011-08-09 10:54:54 - 11:21:53
Obs Pointing(ra,dec,roll): 106.408, -19.996, 43.56
172.170 -13.930_imageloc (boresight_dist, angle): (63, -38)
172.170 -13.930_exposure (cm^2 cos adjusted): 0
172.170 -13.930_altitude: 22 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334580621.243 -s 173.317 -17.883
Time(MET + UTCF -> UT): 334580621.243 + -7.243 -> 2011-08-09T11:03:33.1000
Swift Zenith(RA,dec): 76.43, -13.34
Swift Location(lon,lat,alt): -46.93 E, -13.33 N, 596 km
Obs Sequence Number: 00074105063
Obs Target Name: saa-cold-221-02
Obs Date and Times: 2011-08-09 10:54:54 - 11:21:53
Obs Pointing(ra,dec,roll): 106.408, -19.996, 43.56
173.317 -17.883_imageloc (boresight_dist, angle): (63, -33)
173.317 -17.883_exposure (cm^2 cos adjusted): 0
173.317 -17.883_altitude: 22 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 334580621.243 -s 173.383 -17.783
Time(MET + UTCF -> UT): 334580621.243 + -7.243 -> 2011-08-09T11:03:33.1000
Swift Zenith(RA,dec): 76.43, -13.34
Swift Location(lon,lat,alt): -46.93 E, -13.33 N, 596 km
Obs Sequence Number: 00074105063
Obs Target Name: saa-cold-221-02
Obs Date and Times: 2011-08-09 10:54:54 - 11:21:53
Obs Pointing(ra,dec,roll): 106.408, -19.996, 43.56
173.383 -17.783_imageloc (boresight_dist, angle): (63, -33)
173.383 -17.783_exposure (cm^2 cos adjusted): 0
173.383 -17.783_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>

/tmp/110809_1103.png	Content-Type:	image/png
	Content-Encoding:	base64

/tmp/110809_1103_bat64ms_ipn

/tmp/110809_1103_bat64ms_ipn	Content-Type:	application/octet-stream
	Content-Encoding:	base64

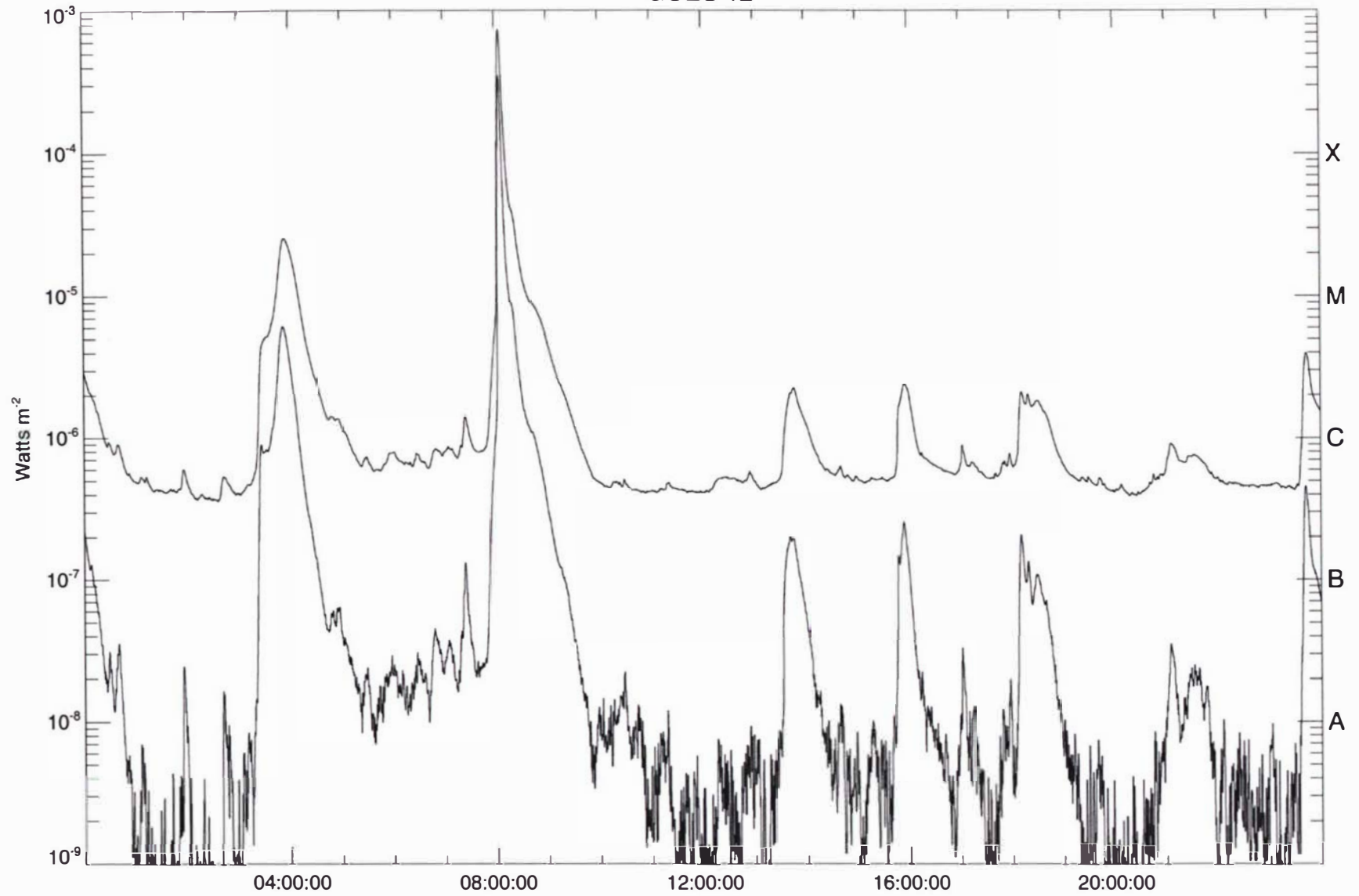
Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

GOES 12



Data Start: 11/08/09, 0000:09

Plot created: 11/08/12, 0832

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

SUZAKU

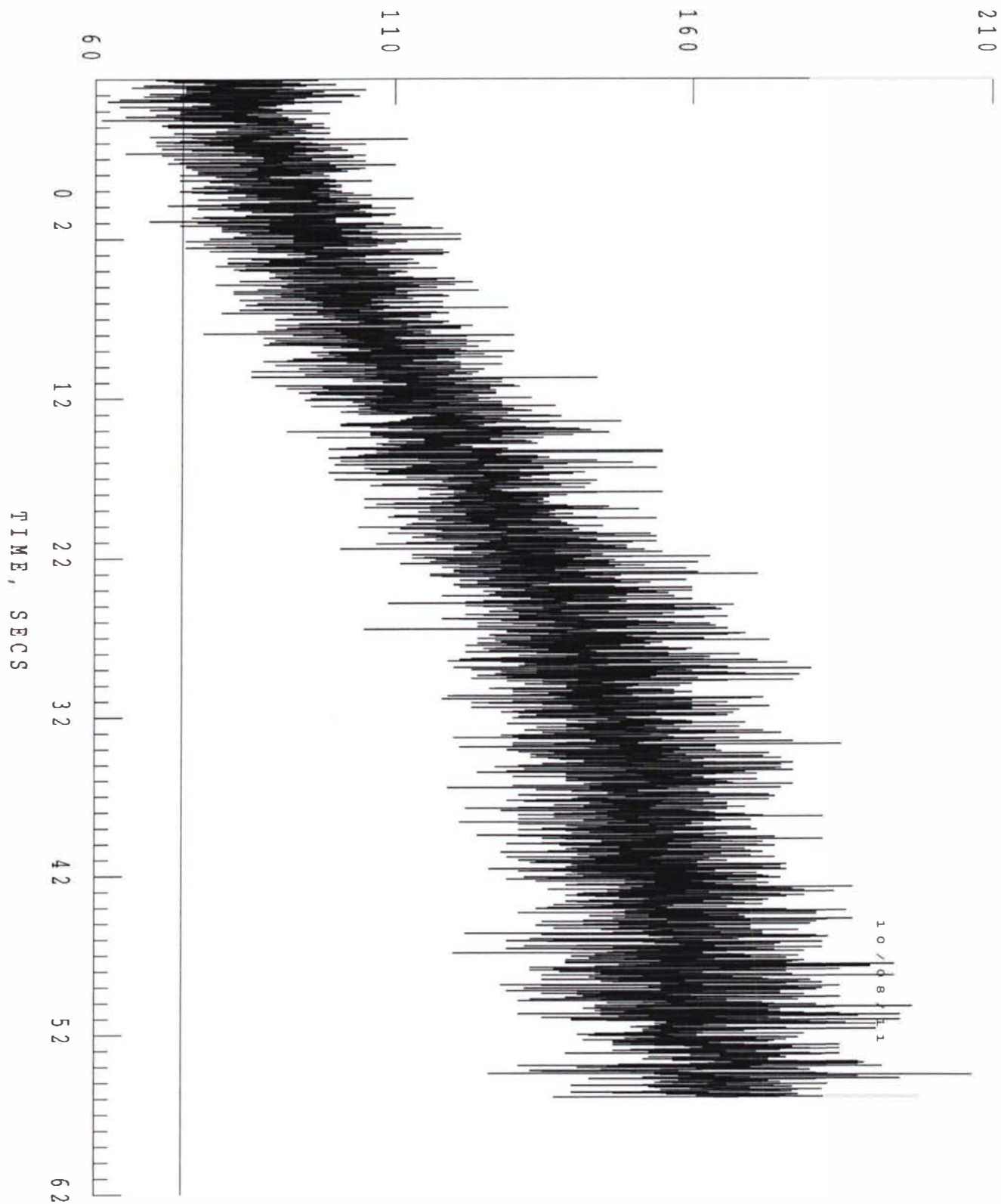
10/08/11

46217.090

50 - 240 keV

Not in Suzaku list

COUNTS/0.016 S



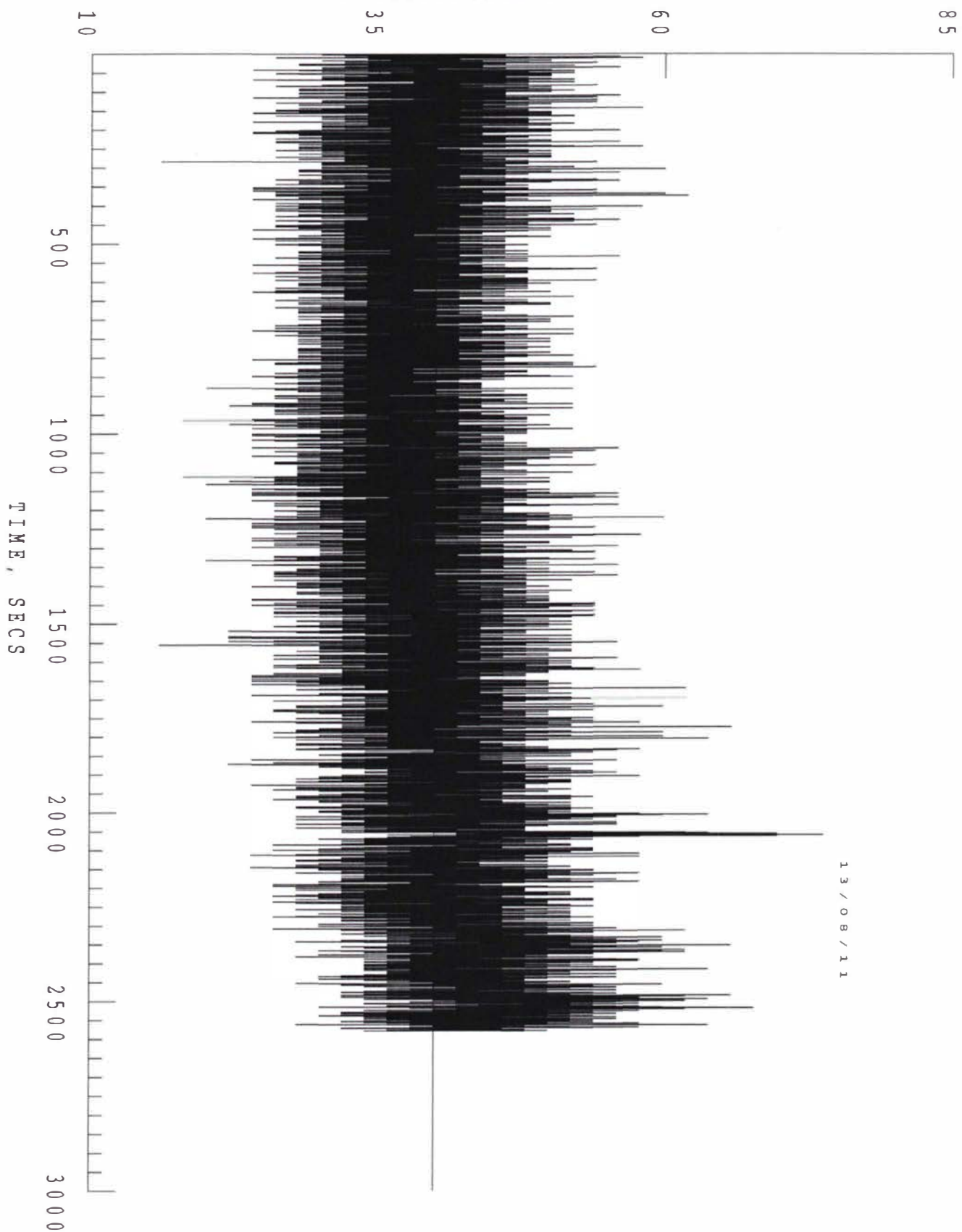
MS01

10/08/11

44900.498

50 - 3000 keV

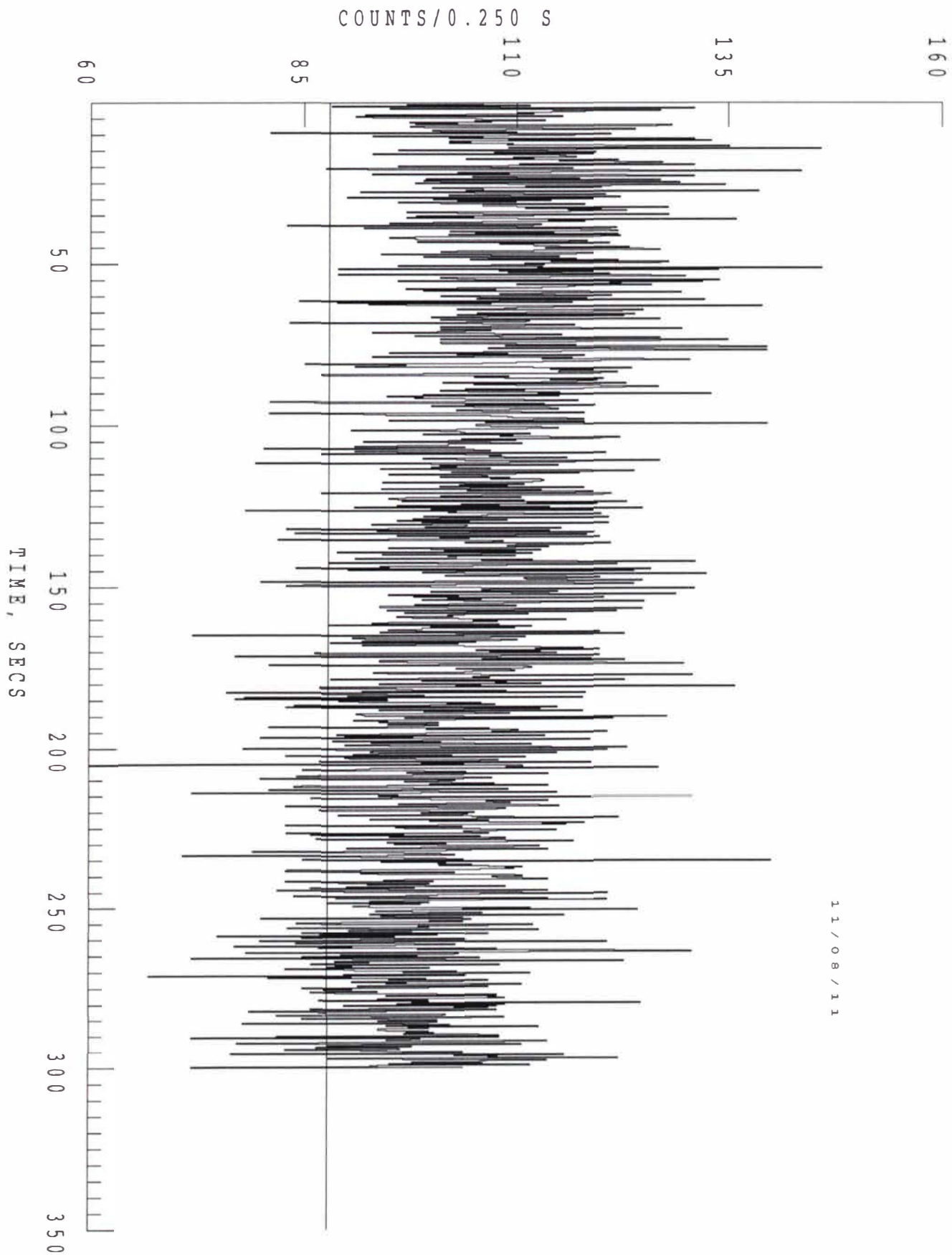
COUNTS/0.250 S



HESSI

10/08/11 46067.000 (SUZAKU_20110810_46217)

25- 150 keV



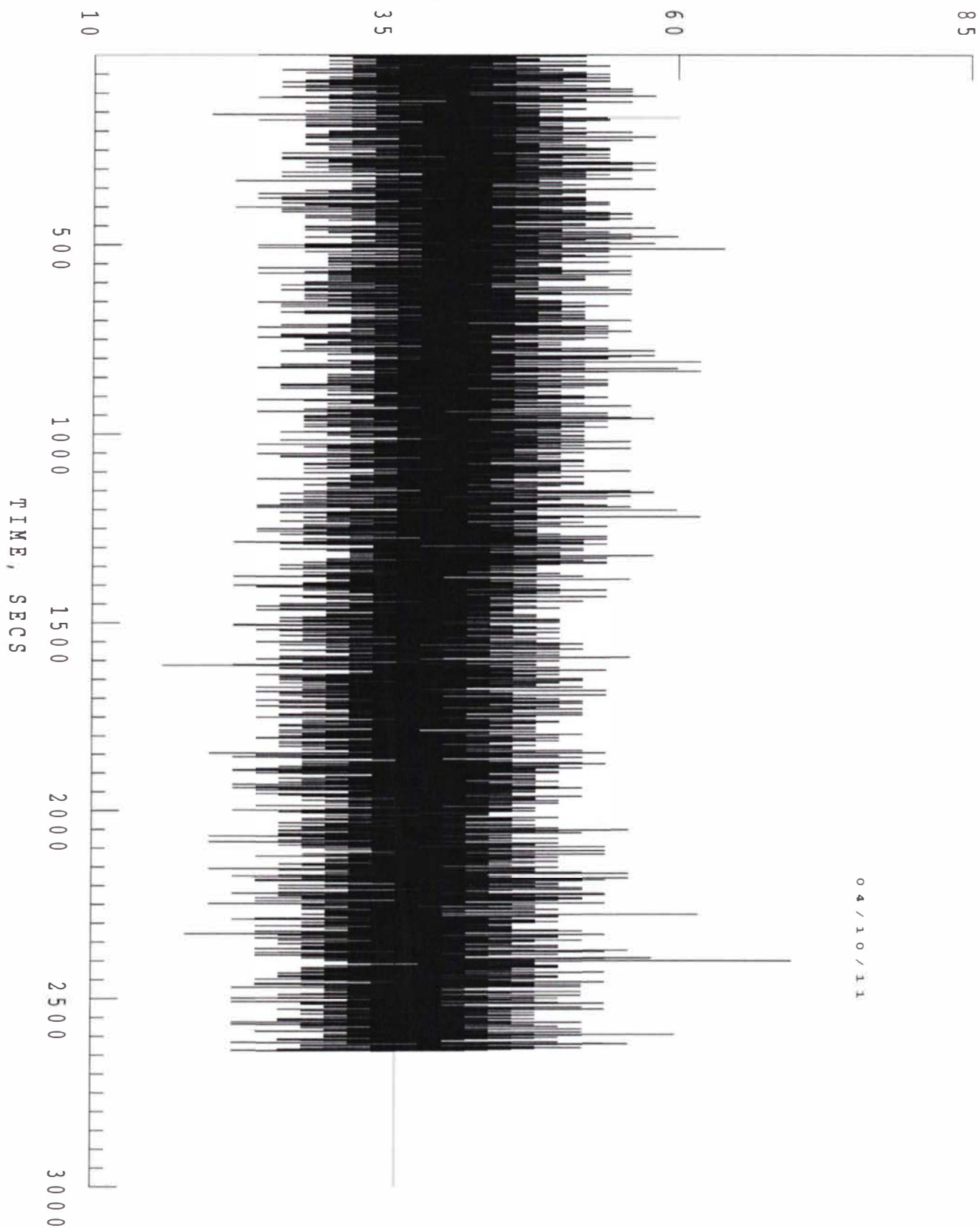
MS01

10/08/11

57860.285

50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Tue Oct 4 16:27:37 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 4 Oct 2011 16:27:07 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
Cc: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GBM_SGR_20110810_59188
X-Ucb-Scan-Signature: efbbeb8c6a42b8a354311f330d99379f9eeeacb9
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 4-Oct-2011 16:29:03.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0320000
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 110810_1626

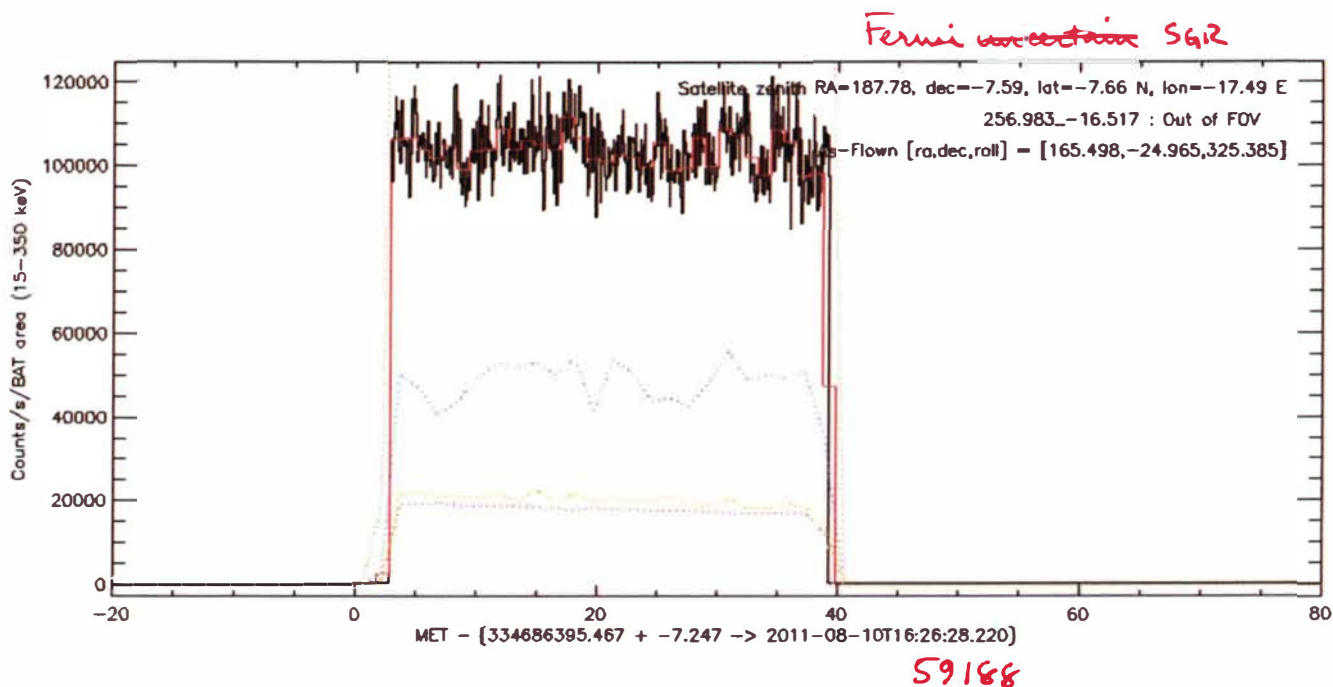
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 10 Aug 2011 16:16:54 -0600 (MDT)

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

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

/tmp/110810_1626.png



```
% /usr/local/bin/swinfo -o 334686395.467 -s 256.983_-16.517
Time (MET + UTCF -> UT):      334686395.467 + -7.247 -> 2011-08-10T16:26:28.220
Swift Zenith(RA,dec):         187.78, -7.59
Swift Location(lon,lat,alt):   -17.49 E, -7.66 N, 587 km
Obs Sequence Number:          00075071015
Obs Target Name:               saa-cold-222-06
Obs Date and Times:            2011-08-10 16:05:54 - 16:28:50
Obs Pointing(ra,dec,roll):     165.498, -24.965, 325.38
256.983_-16.517_imageloc (boresight_dist, angle): (84, 50)
256.983_-16.517_exposure (cm^2 cos adjusted): 0
256.983_-16.517_altitude: 46 (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>

/tmp/110810_1626_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110810_1626.png

/tmp/110810_1626.png

Content-Type: image/png
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit



Date: Mar 25 2013

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/spiaccs-online/spiaccs-ipnlc.pl>)

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

08/08/11

MESSENGER

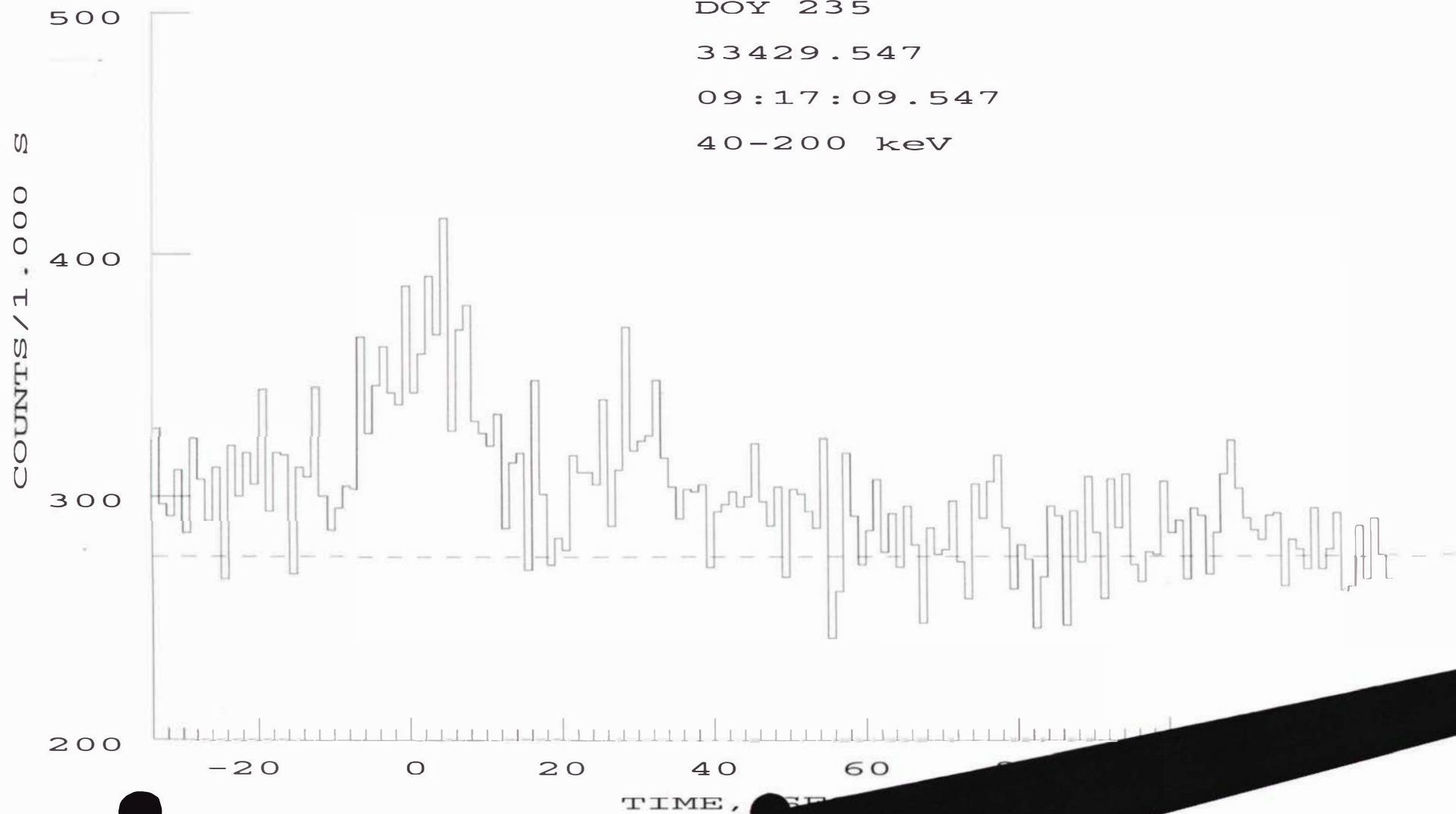
23/08/11

DOY 235

33429.547

09:17:09.547

40-200 keV



SECS

80

100

120

140

08/08/11

MESSENGER

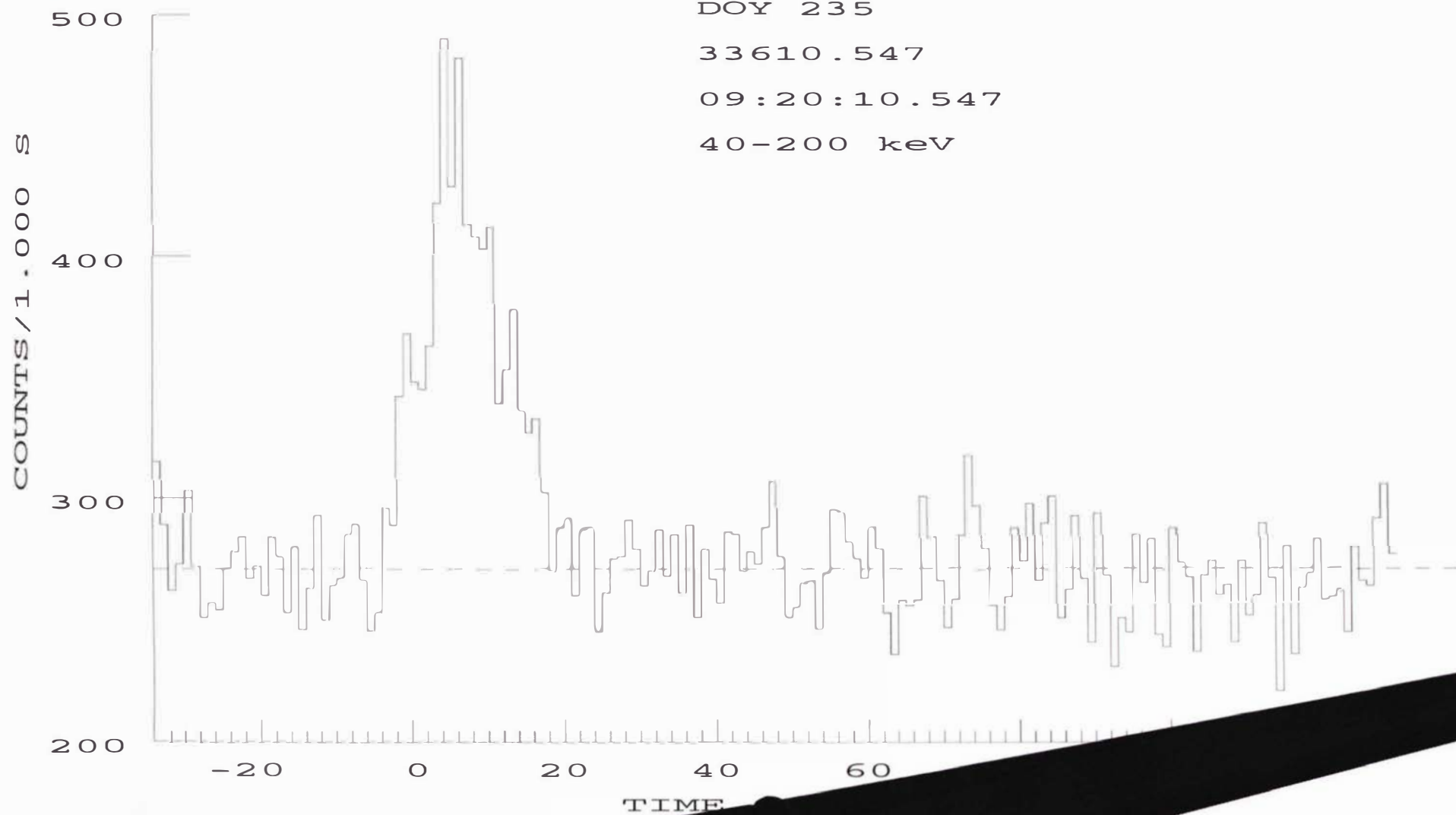
23/08/11

DOY 235

33610.547

09:20:10.547

40-200 keV



SECS

80

100

120

140

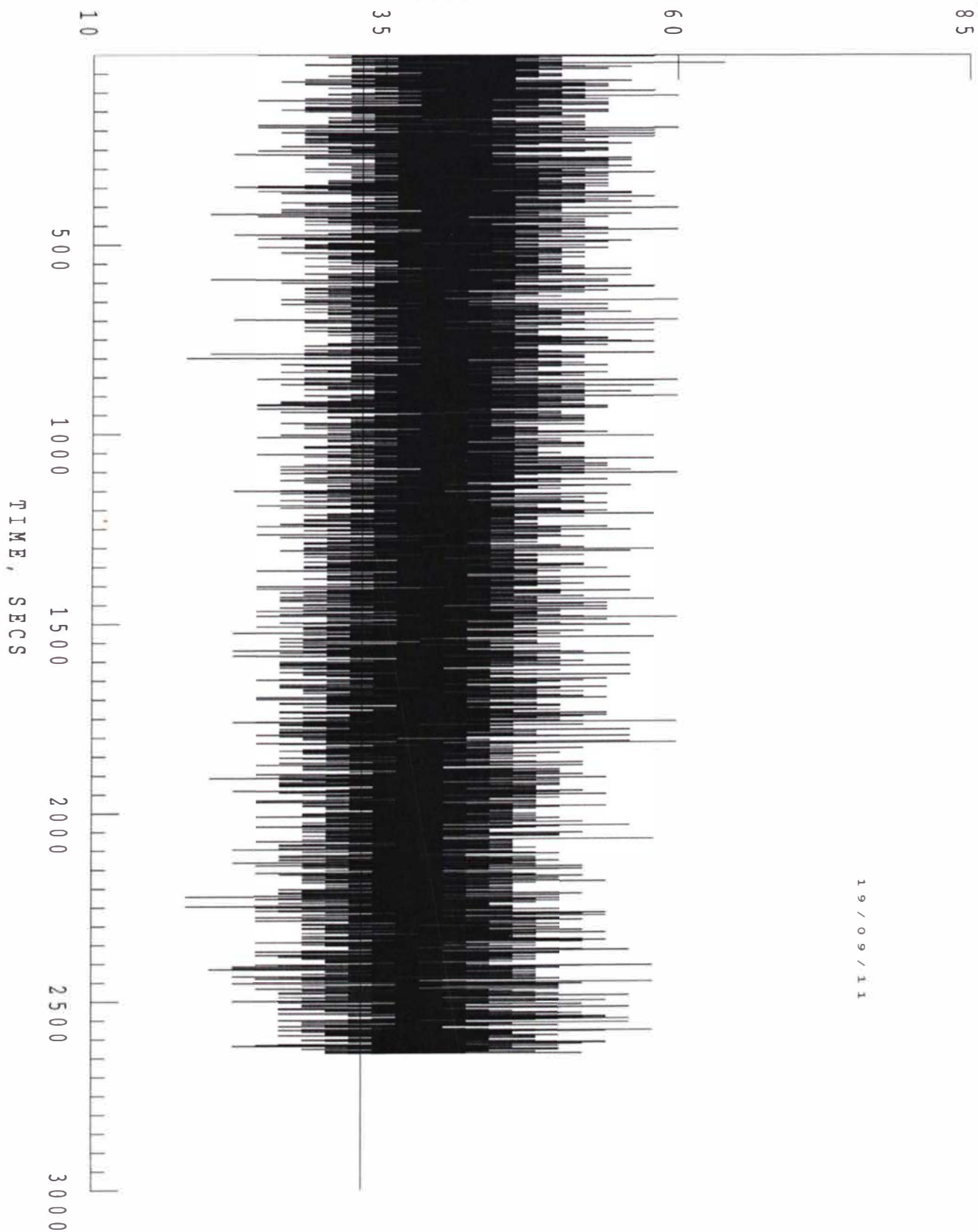
MS01

23/08/11

36961.889

50 - 3000 keV

COUNTS/0.250 S

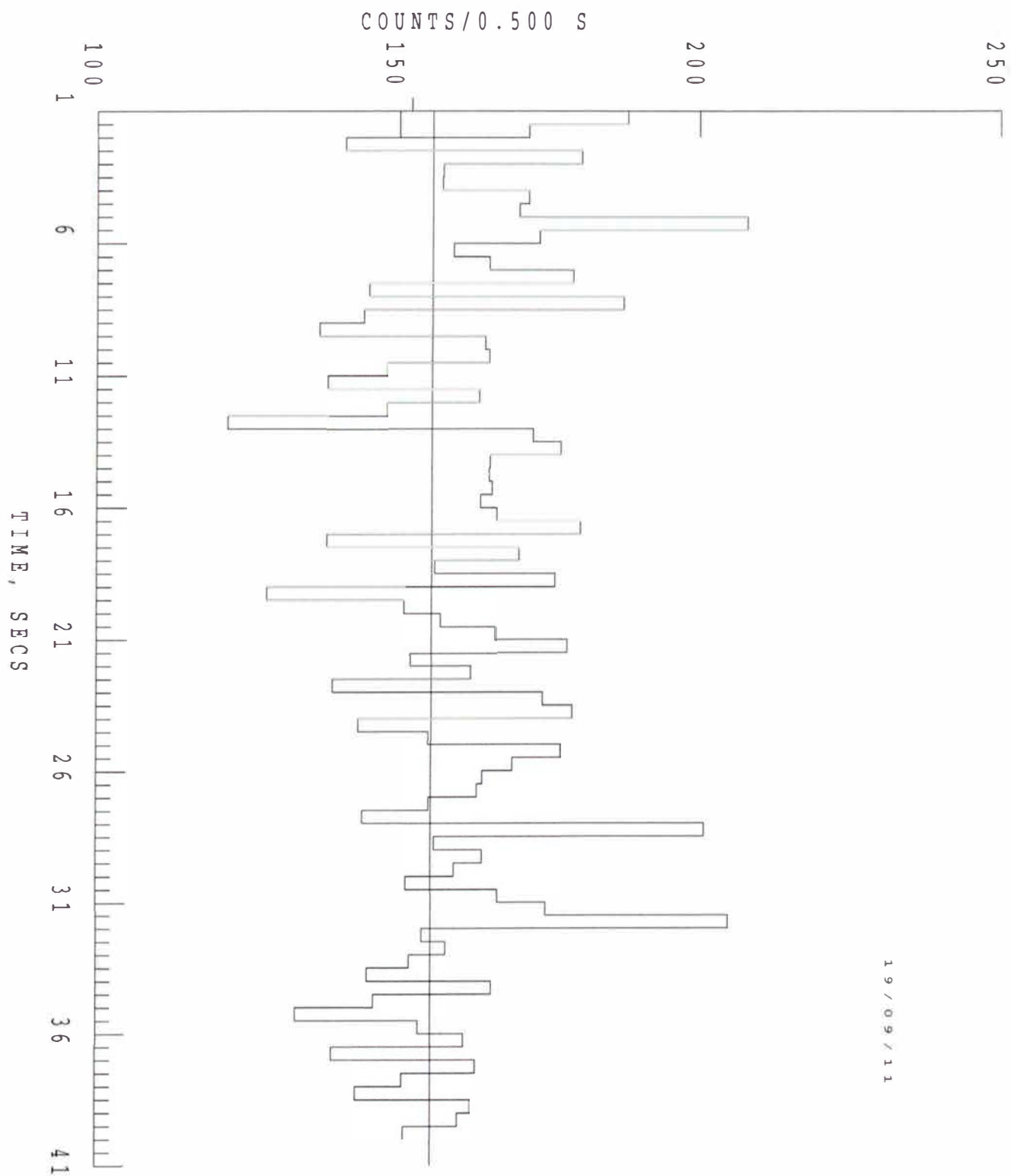


19/09/11

HESSI

23/08/11 38270.000 (SUZAKU_RI_20110823_38290)

25- 150 keV



Date: Sep 2009

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

- ☒ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

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)?

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

From yamaoka@phys.aoyama.ac.jp Thu Nov 24 01:37:10 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Thu, 24 Nov 2011 18:41:00 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: Kevin Hurley <khurley@ssl.berkeley.edu>
Cc: yamaoka@phys.aoyama.ac.jp, sugita@u.phys.nagoya-u.ac.jp
Subject: Re: Suzaku events on August 22/3
X-Ucb-Scan-Signature: 0bc648c97d25a9ec124d9f1d9b2f1131df23a6d0
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -1.201'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Kevin,

We can get a constraint on the position for the 13:28:26 event using relative count rates among detectors.

In the following x,y and z axes:

X axis ra=81.655[deg], dec=-43.867[deg]
Y axis ra=155.132[deg], dec=16.482[deg]
Z axis ra=49.950[deg], dec=41.512[deg]

we can constrain the phi (we take phi=0 on the X axis)
144.5 -5.5/+4.3 deg for 1 sigma
144.5 -21.5/+10.6 deg for 3 sigma

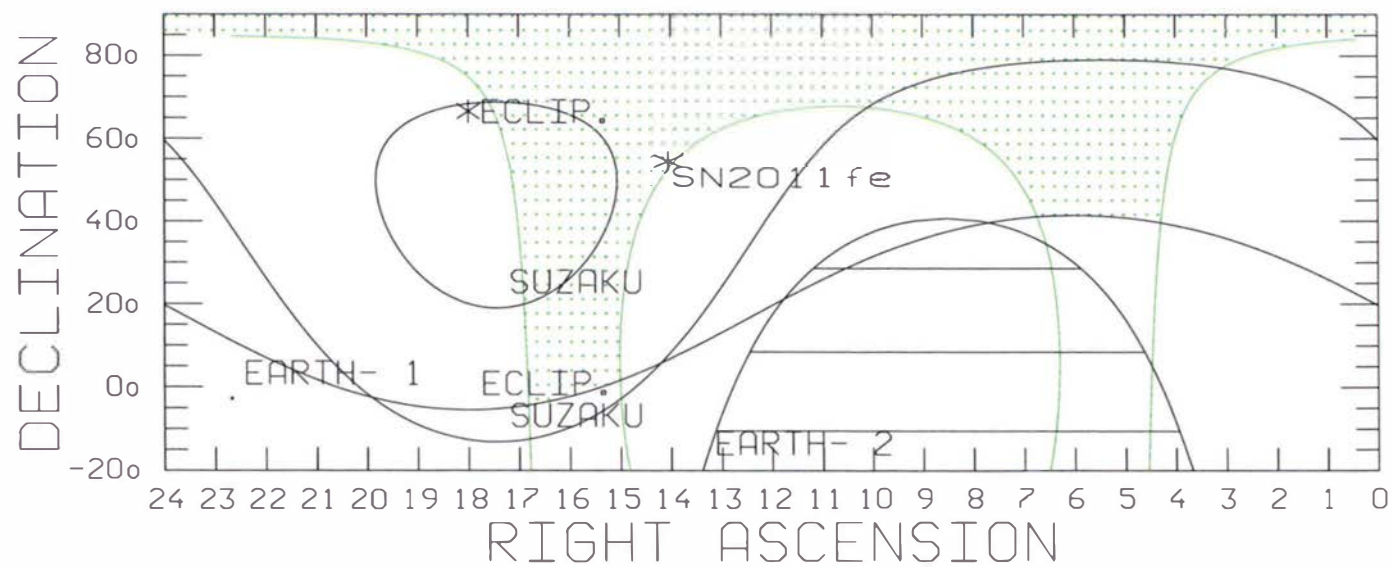
For the 10:38:10 event, it is inconsistent with SN2011fe.

Best wishes,
Kazu

On Wed, 23 Nov 2011 08:52:09 -0800 (PST)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear Kazu,
>
> There is a typo in your message - the bursts are on the 23rd,
> not the 13th. The burst on 2011-08-23 at 13:28:26 is confirmed
> by Konus. The Konus-Suzaku annulus is very wide, and the combination
> of the annulus with the Konus ecliptic latitude band forms a very
> large error box which includes the SN position. So, if Suzaku data
> can be used to get even a coarse location, it might rule out this
> association, and it would be helpful.
>
> The burst on 2011-08-23 at 10:38:10 is unconfirmed, and if you could just
> say whether it is consistent with the position of the SN or not, it
> would be very helpful. Also, if you think that it is not cosmic
> in origin, that would be good to know. Perhaps Earth-blocking
> can rule out an origin consistent with the SN? If you are able
> to get a localization for this burst, it would also be helpful
> to know what fraction of the sky it covers.
>
> Kevin

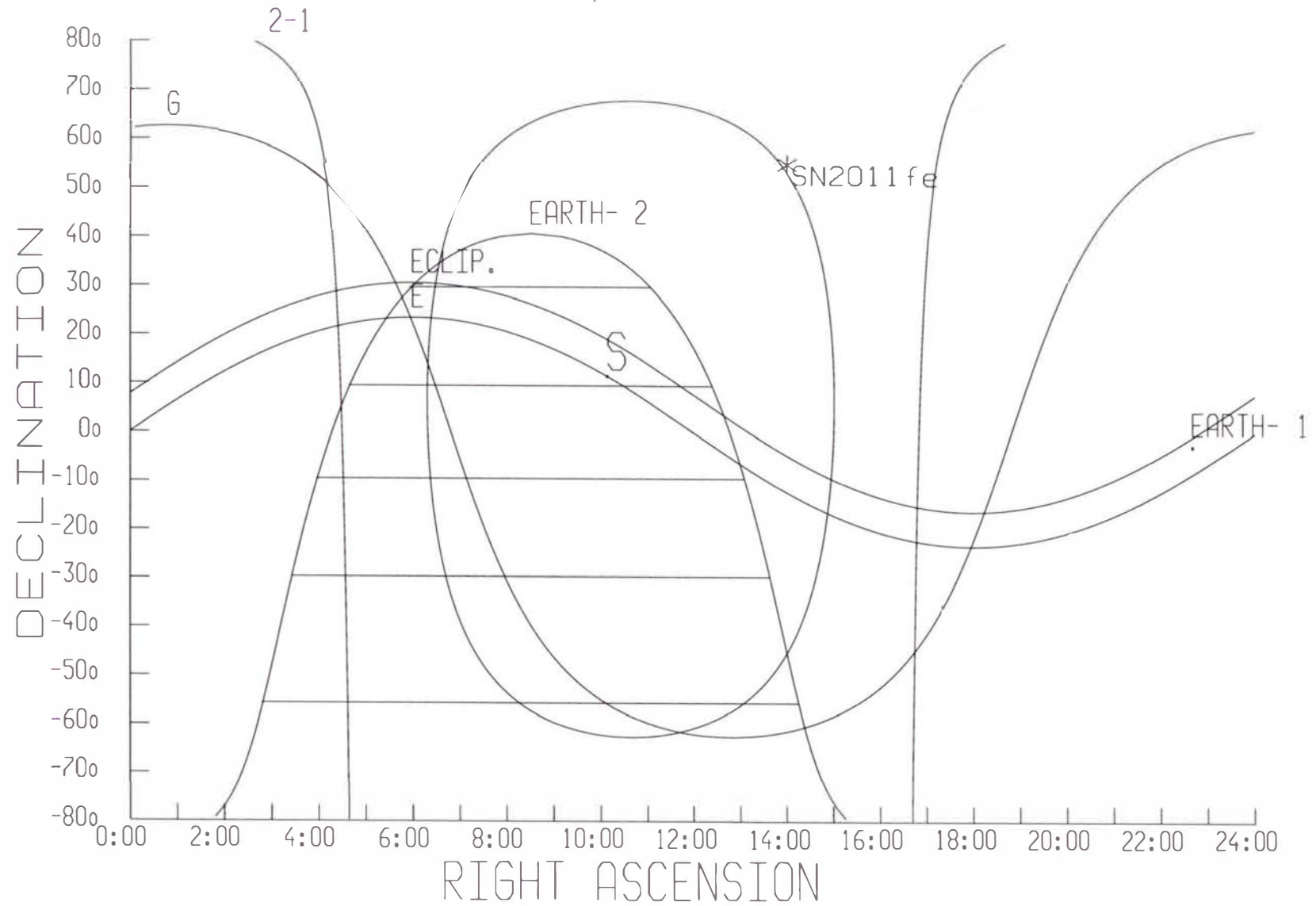
> > From yamaoka@phys.aoyama.ac.jp Wed Nov 23 06:23:53 2011
> > X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
> > Date: Wed, 23 Nov 2011 23:27:46 +0900
> > From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>



EVENT OF AUG 23, 2011 13:24

19/09/2011

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



KONUS

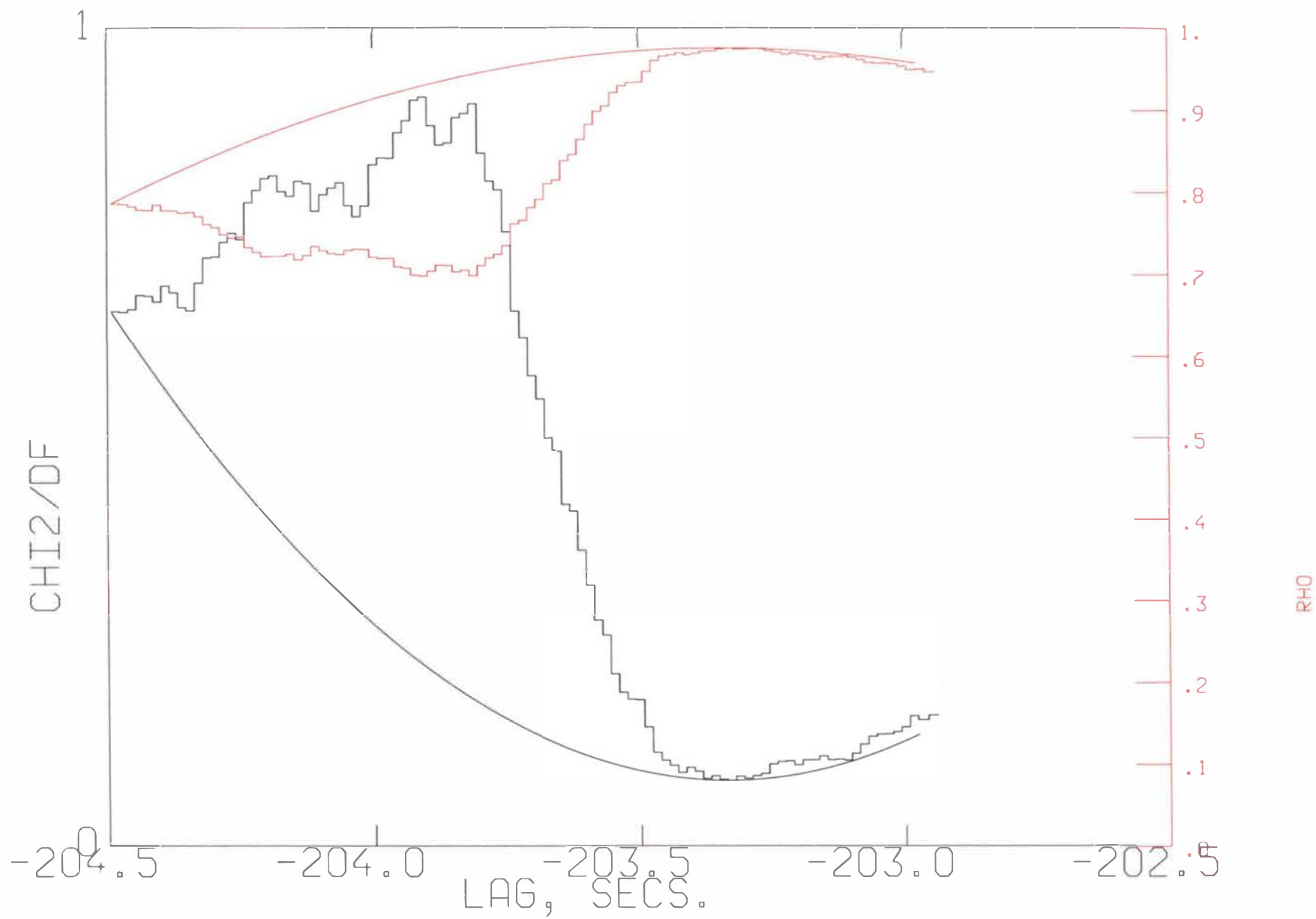
-SUZAKU

CORRELATION

23/08/11

48293.758

19/ 9/11



KONUS

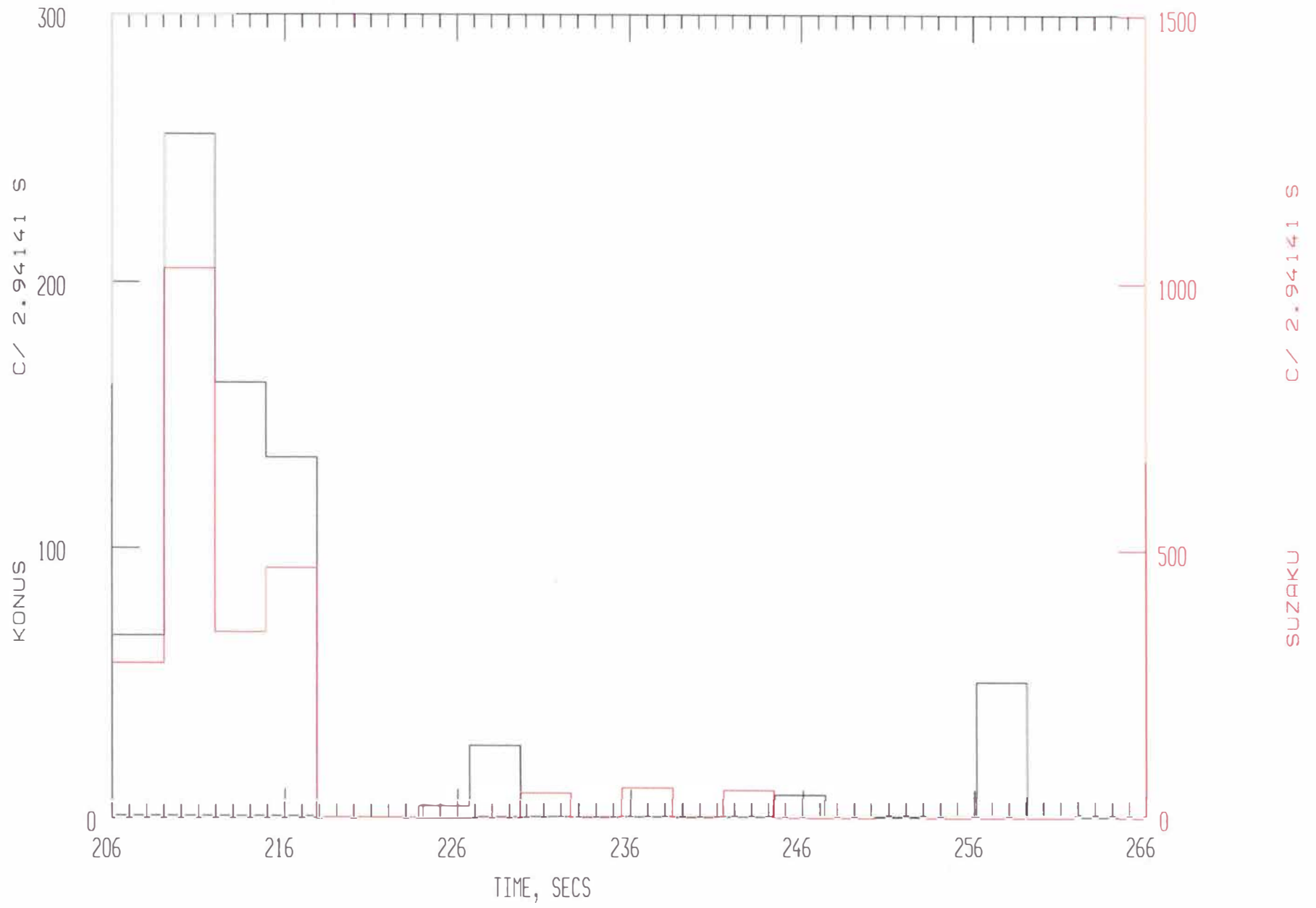
-SUZAKU

CORRELATION

23/08/11

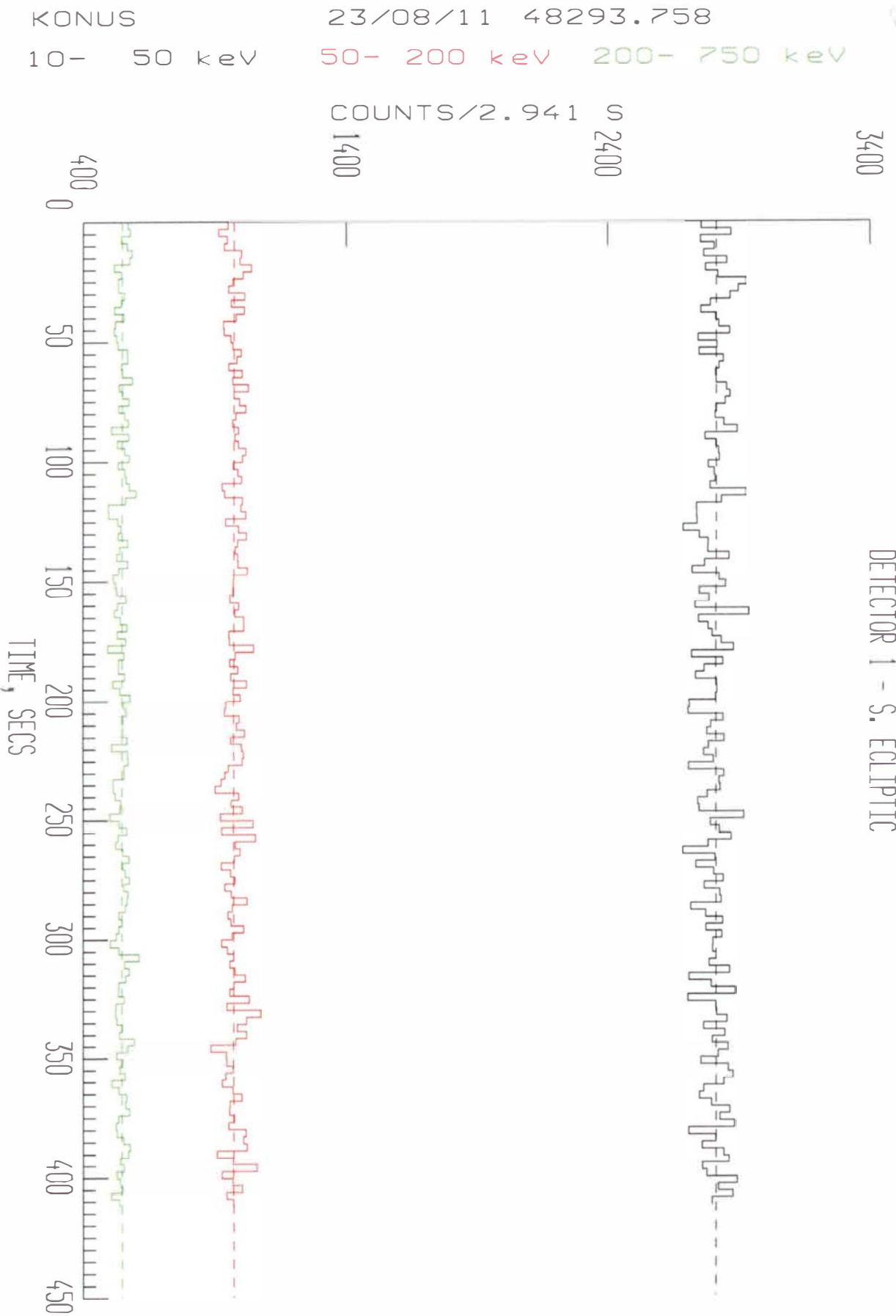
48293.758

19/ 9/11



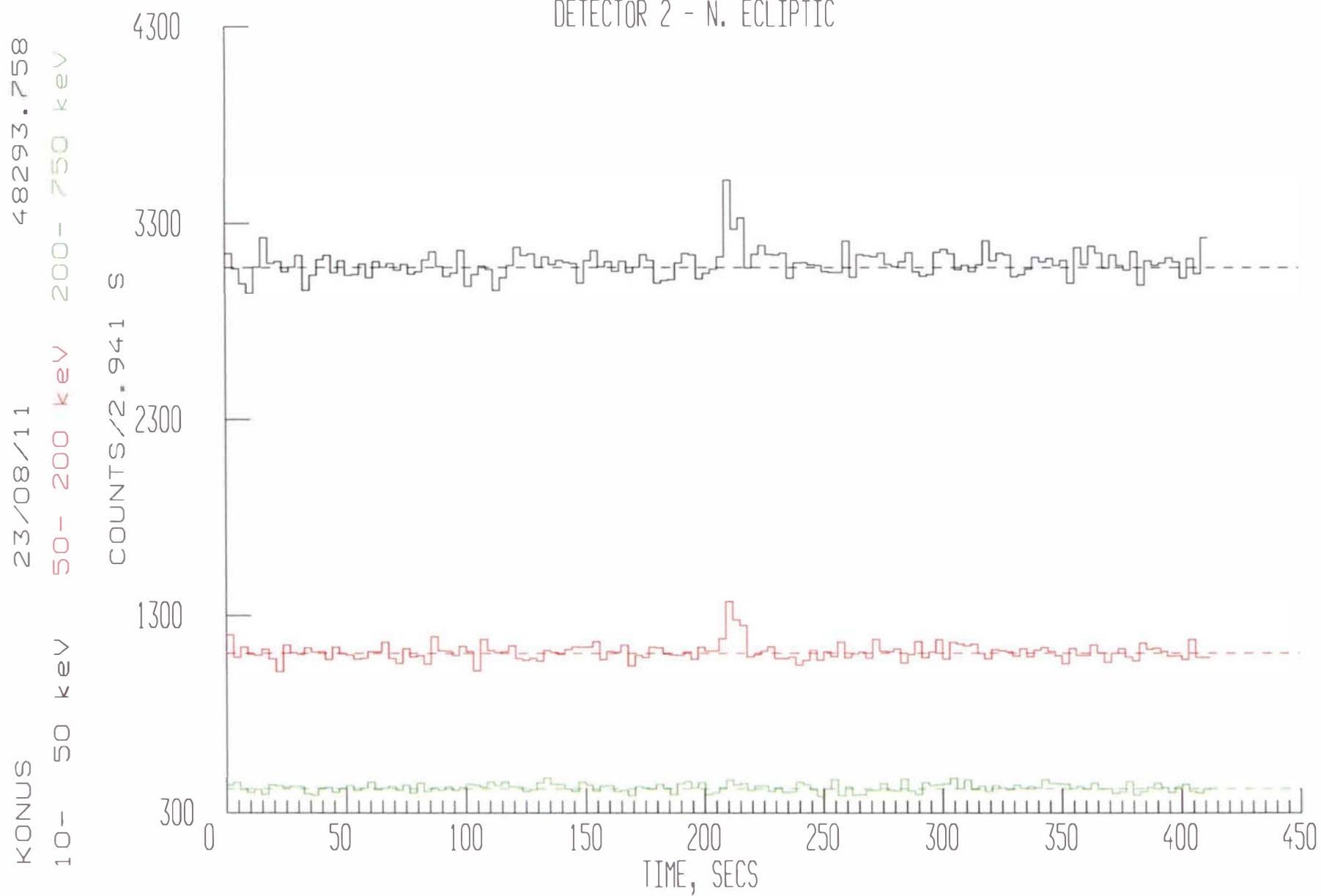
15/09/2011

DETECTOR 1 - S. ECLIPSE



15/09/2011

DETECTOR 2 - N. ECLIPTIC



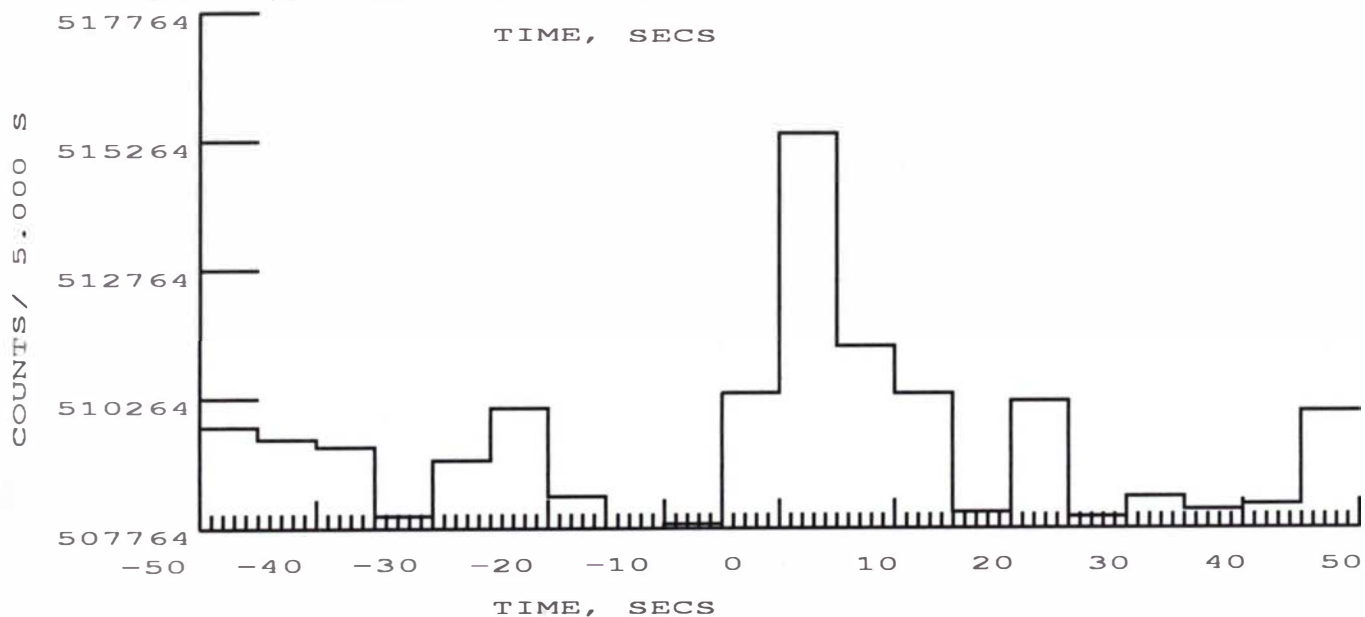
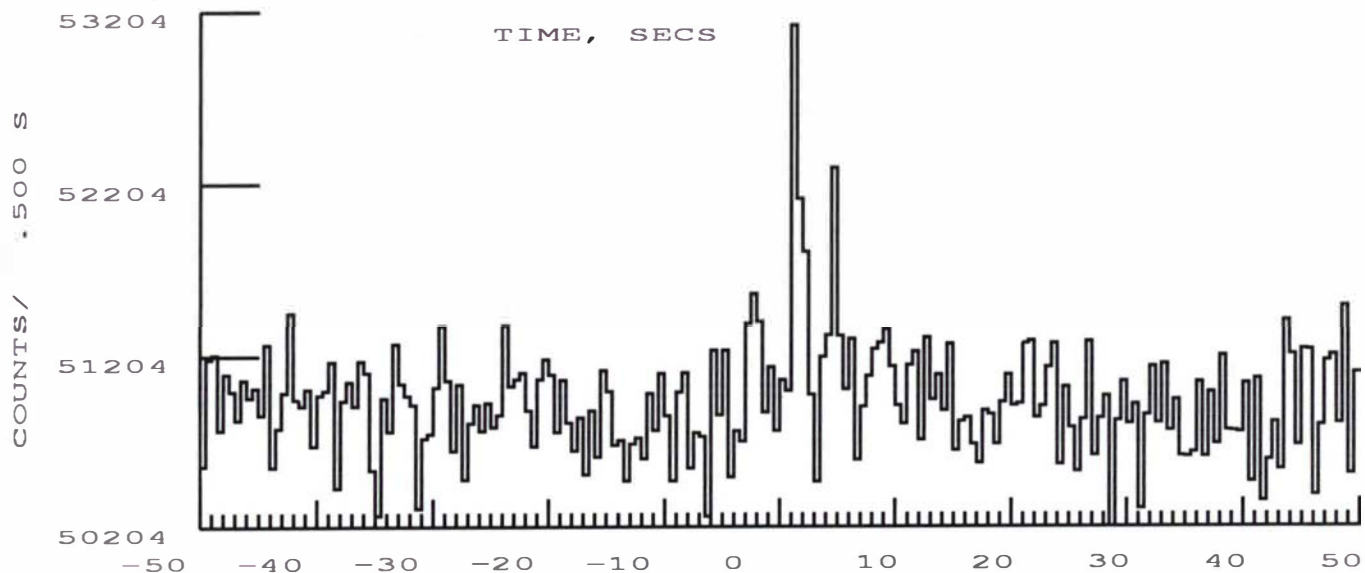
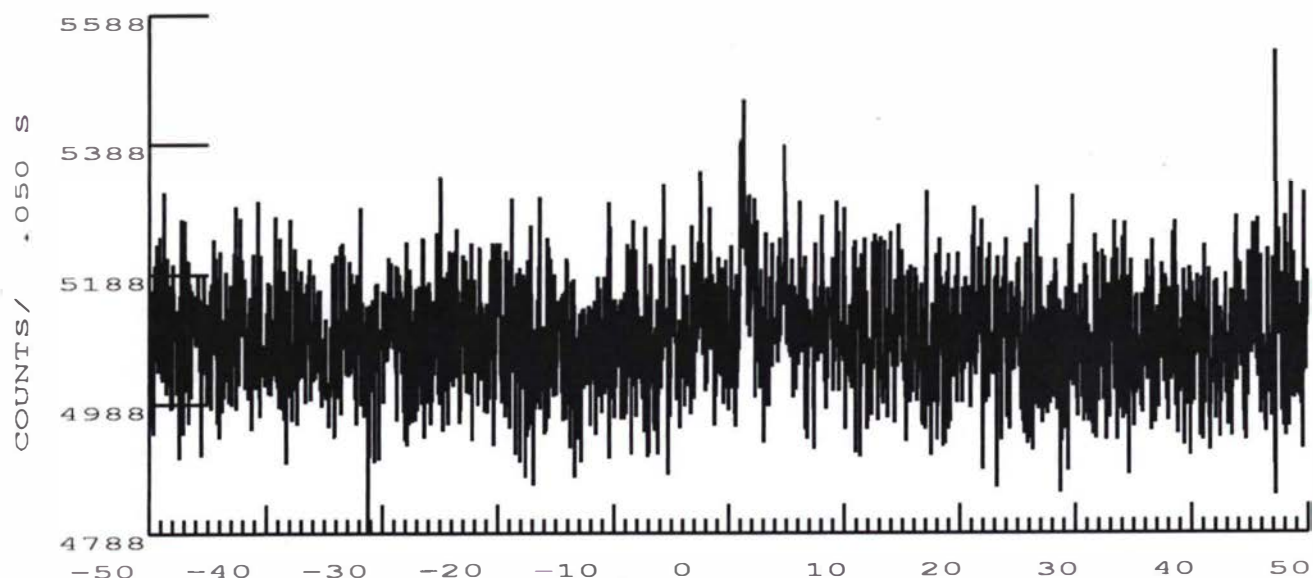
INTEGRAL

23/08/11

48505.000

13:28:25.0

20/01/14

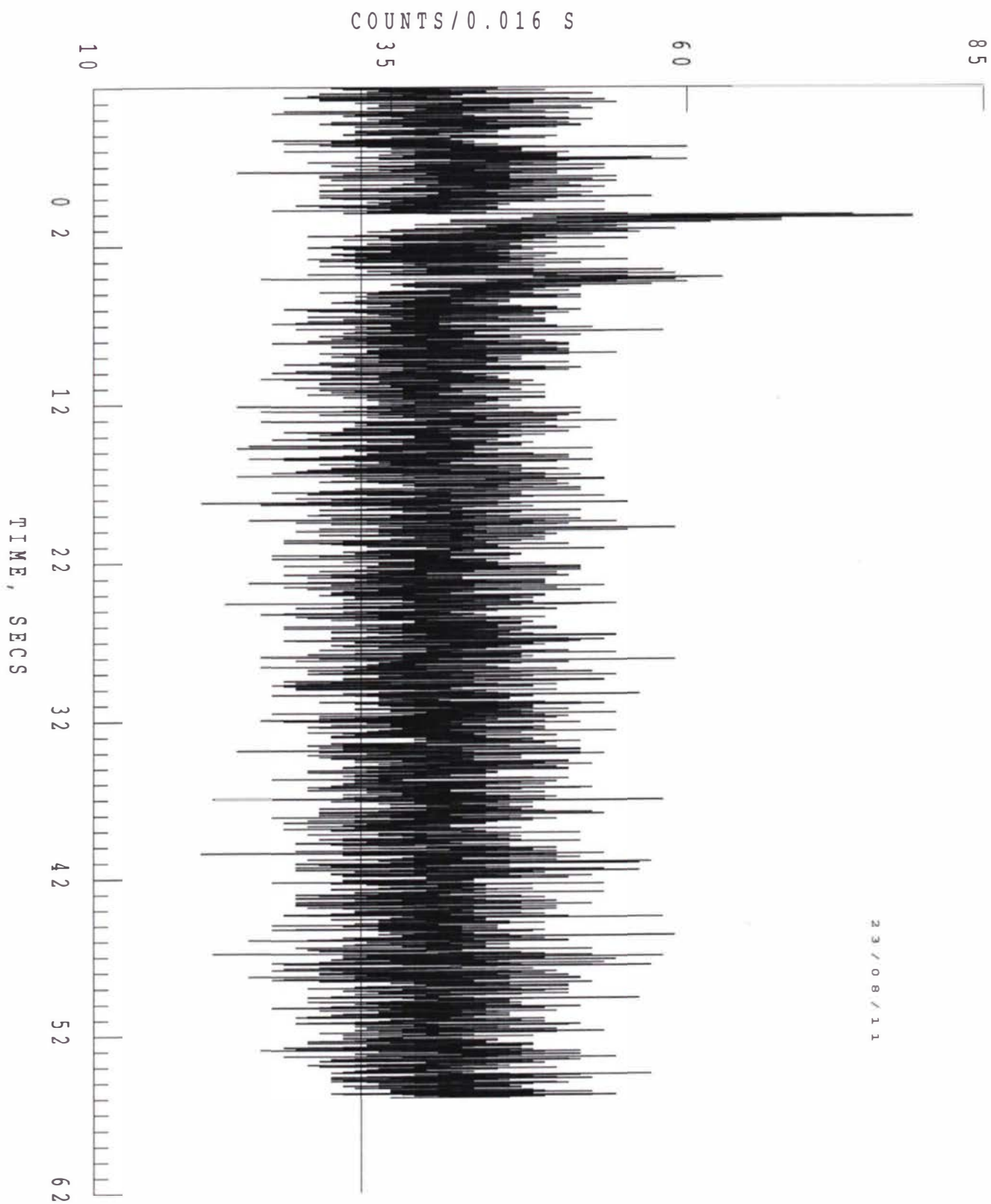


SUZAKU

23/08/11

48505.927

50 - 240 keV



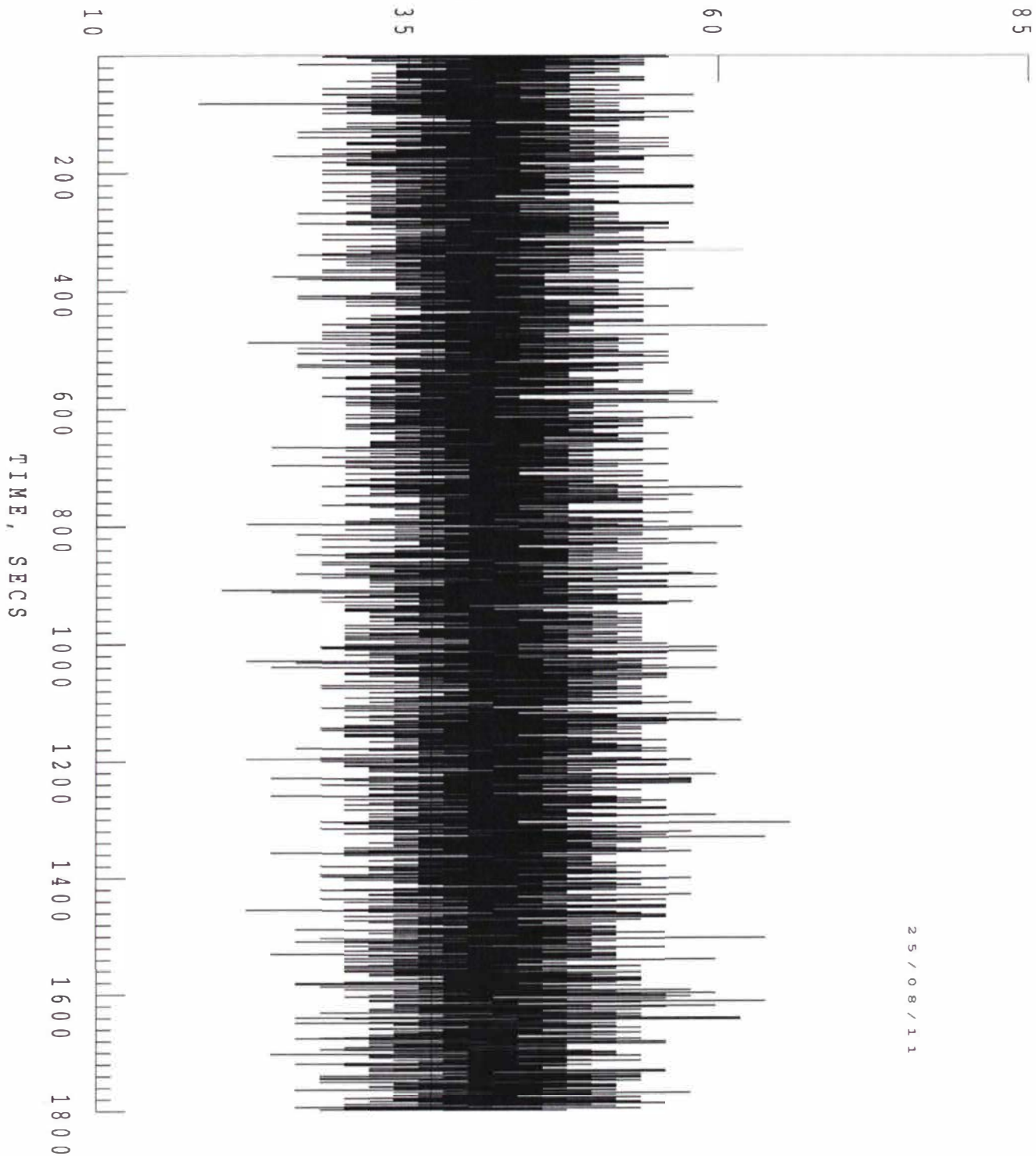
MS01

23/08/11

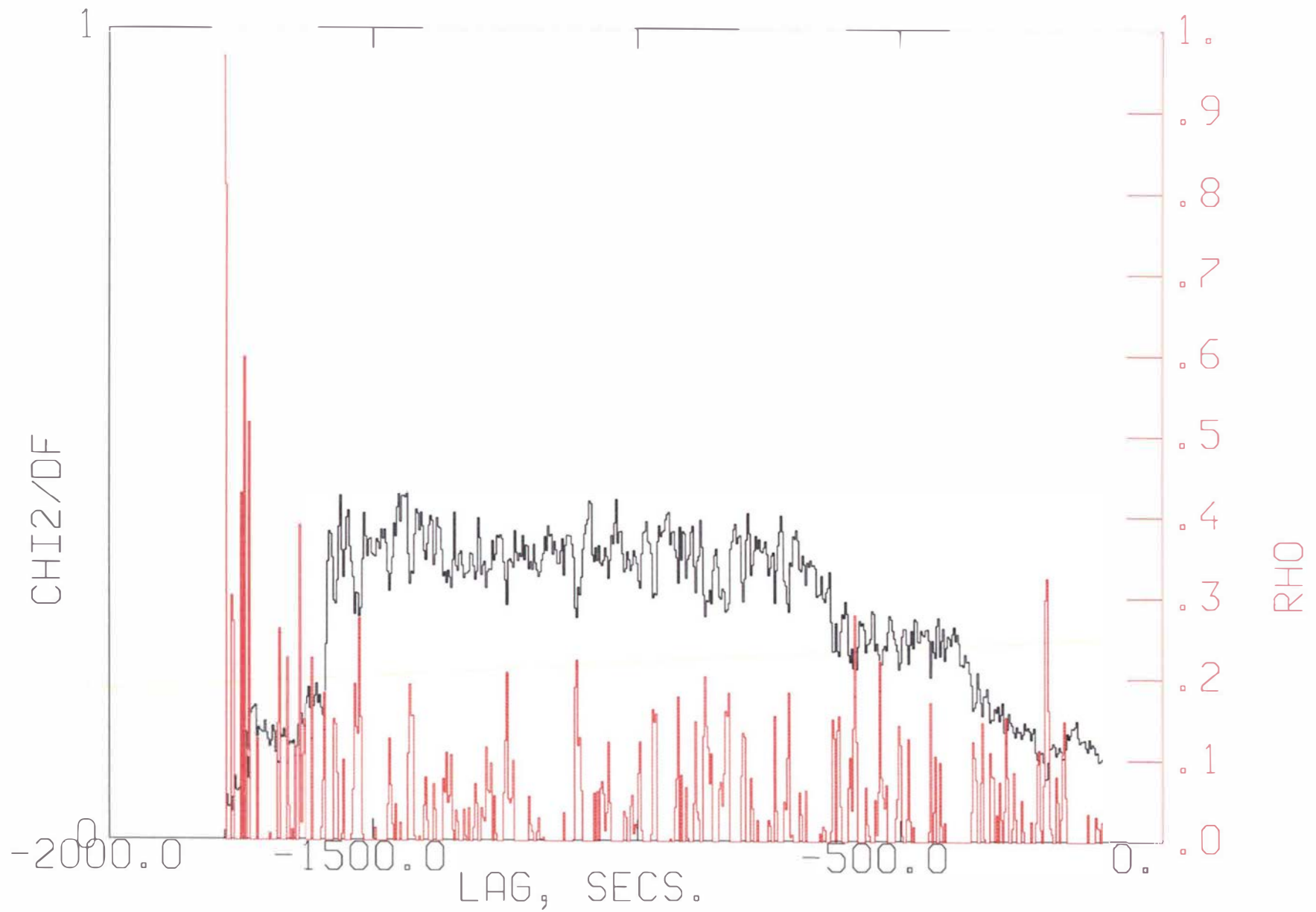
47161.710

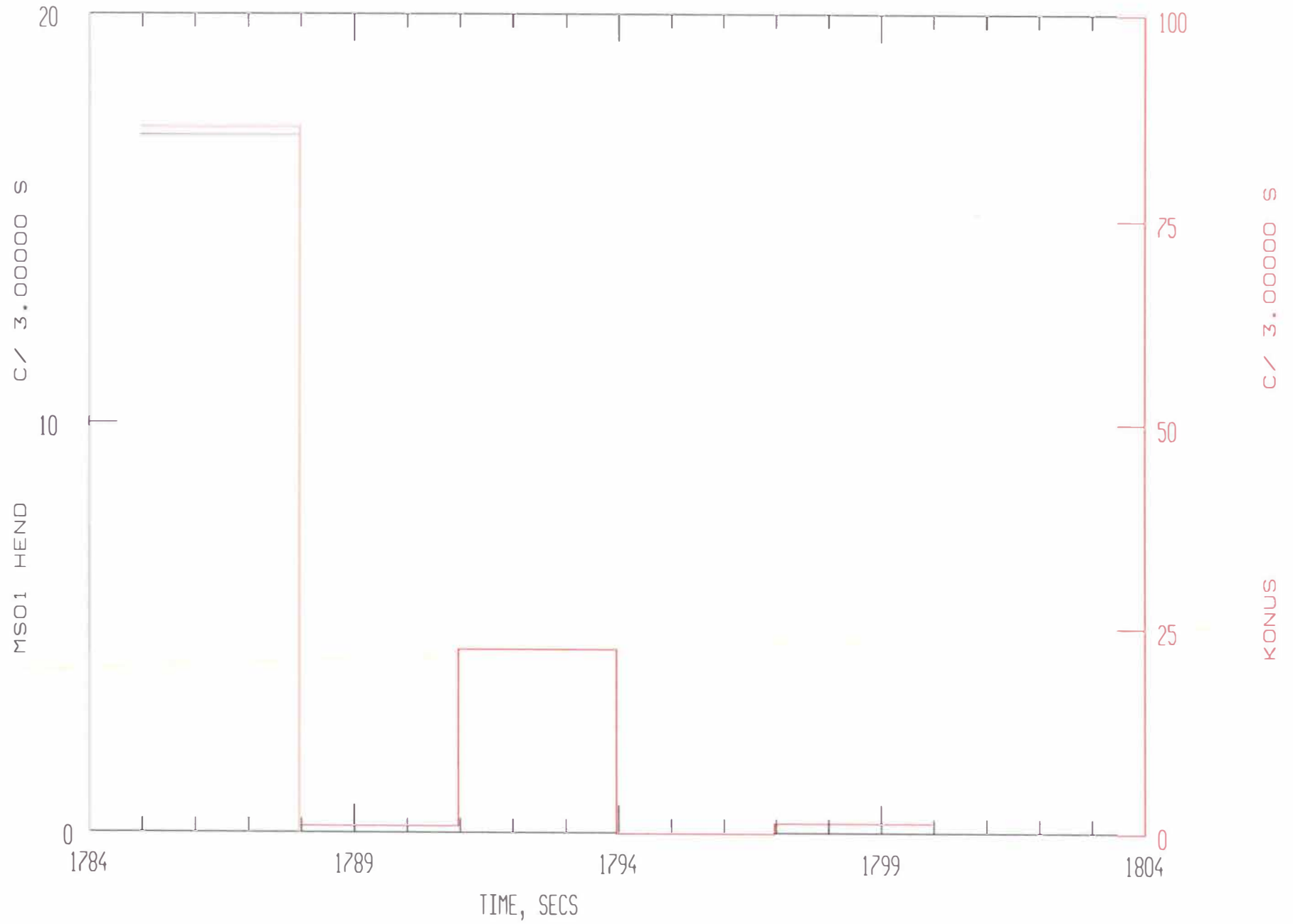
50 - 3000 keV

COUNTS/0.250 S



25/08/11

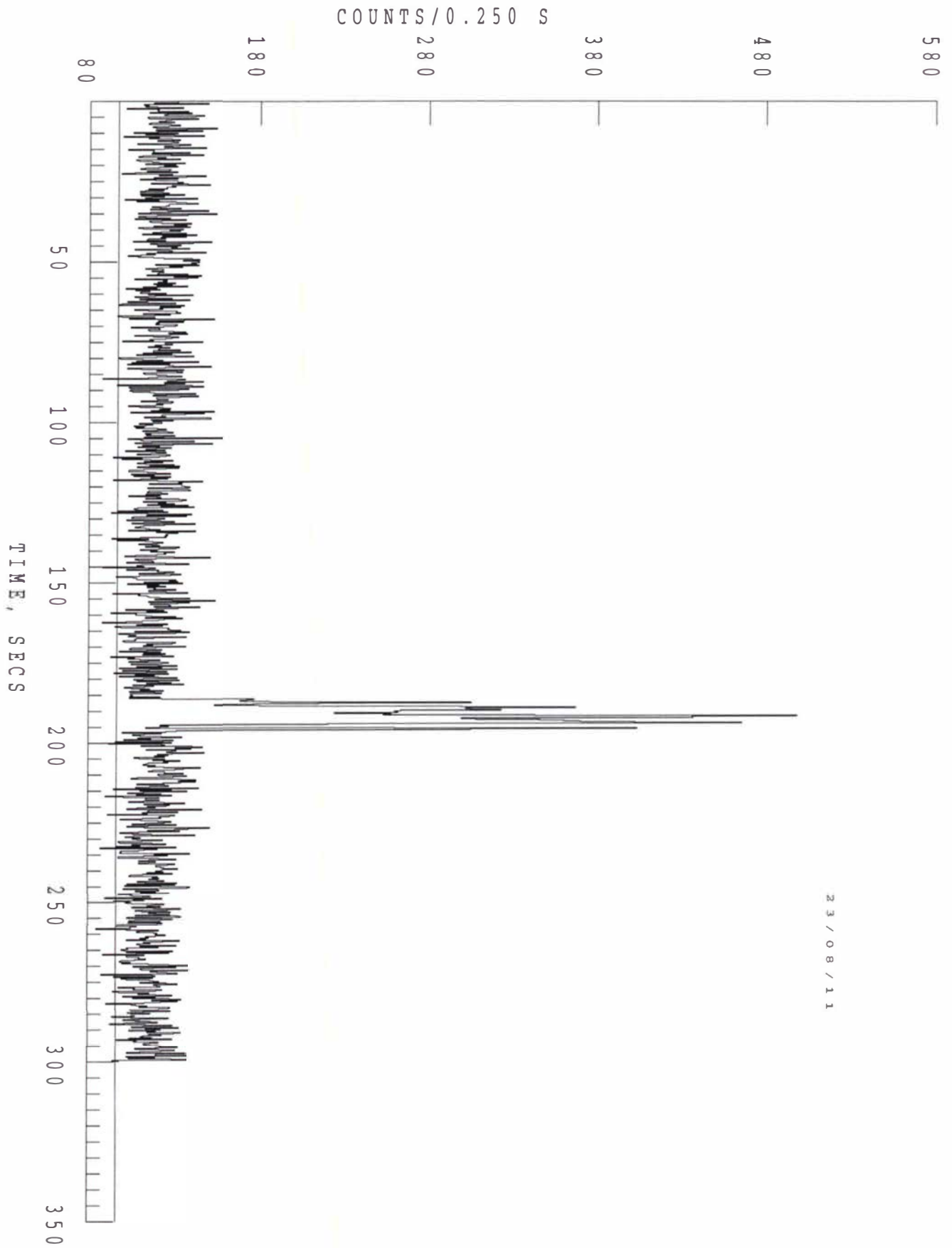




HESSI

23/08/11 48355.000 (SUZAKU_20110823_48505)

25- 150 keV



From ipn-bounces@ssl.berkeley.edu Wed Aug 24 11:58:43 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Wed, 24 Aug 2011 13:59:46 -0500
From: Valerie Connaughton <connauv@uah.edu>
To: IPN <ipn@ssl.berkeley.edu>
Subject: Re: [Ipn] possible GRB detected by AGILE MCAL on 23/8/11 at
17:11:43 UT
X-Ucb-Scan-Signature: ba5ac116a80784f23a20acb0bd824564766da108
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_MESSAGE 0.001'
X-Ucb-Notice: This message has been processed by a spam tagging system.
Content-Description: text

Dear IPNers,

We have this one in our data, but we were in untriggered mode, and gathering TTE data. I will try to see if ops can generate the usual data for the triangulation, but to my knowledge we have not done this for continuous TTE data before so it might be tricky.

Regards,
-- Valerie

Valerie Connaughton	National Space Science & Technology Center
Research Scientist	University of Alabama in Huntsville
Gamma-Ray Astronomy Group	320 Sparkman Drive
valerie@nasa.gov	Huntsville, AL 35805
256-961-7697	

Date: Aug

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

- ☐ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

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?

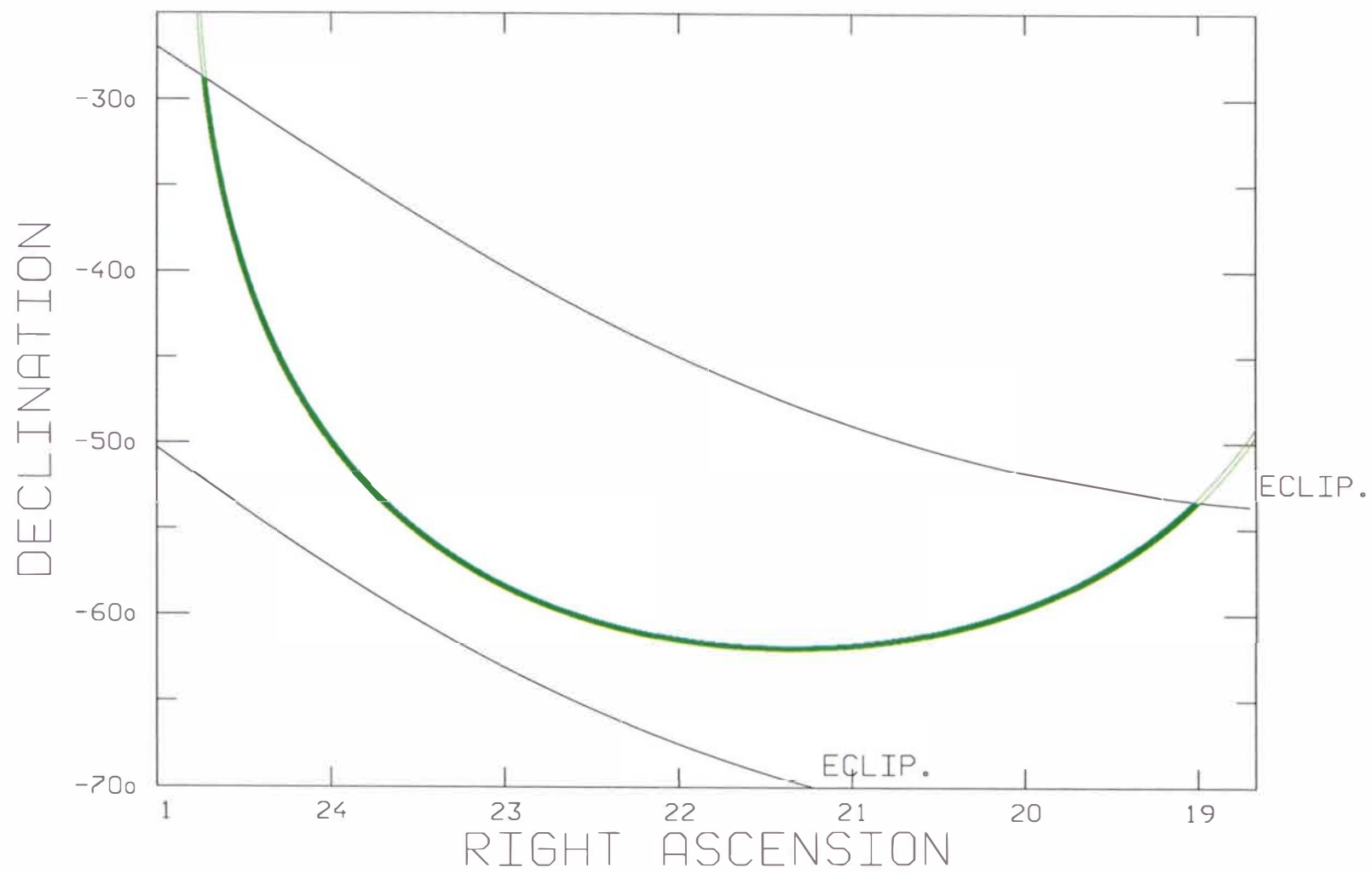
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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)?

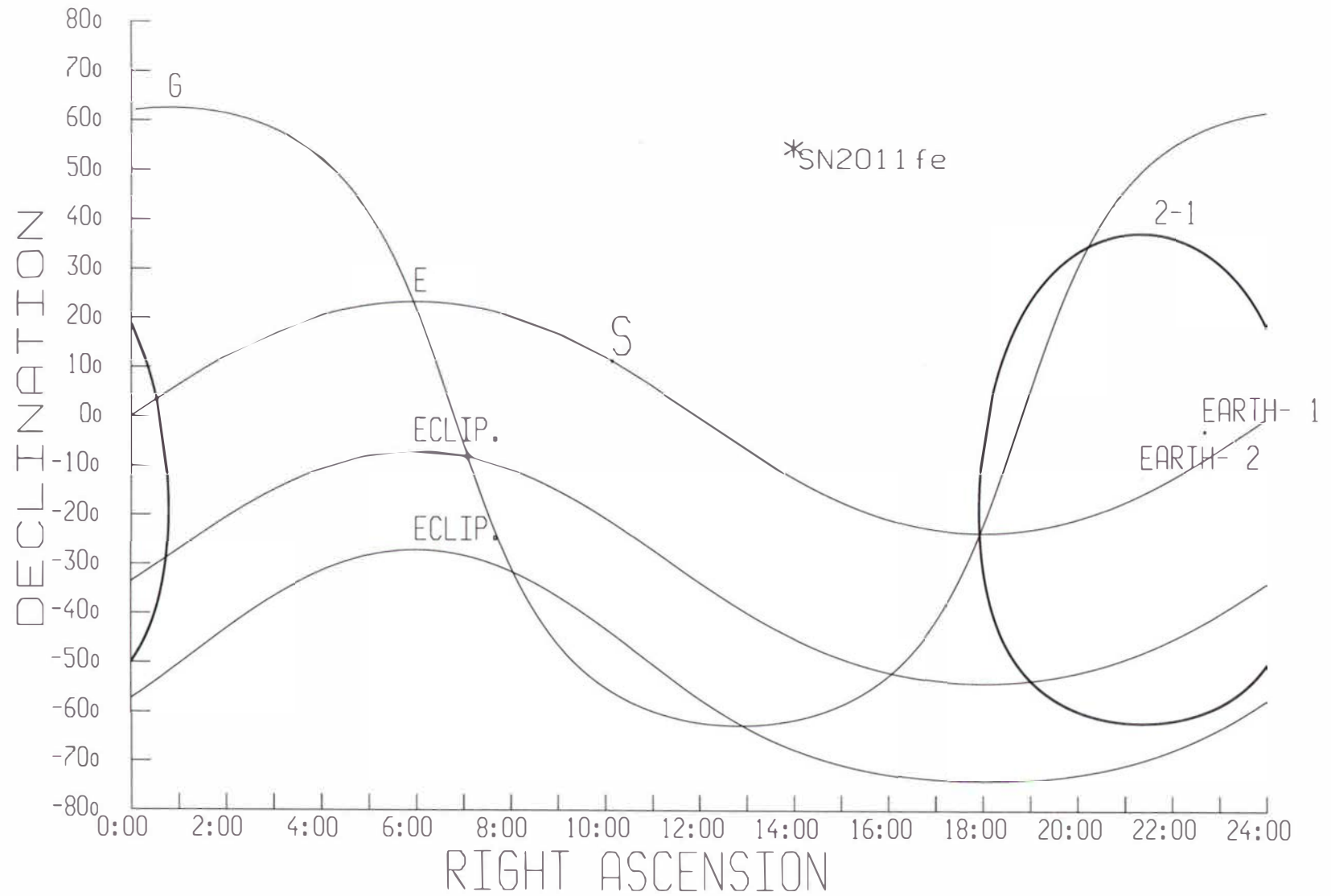
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

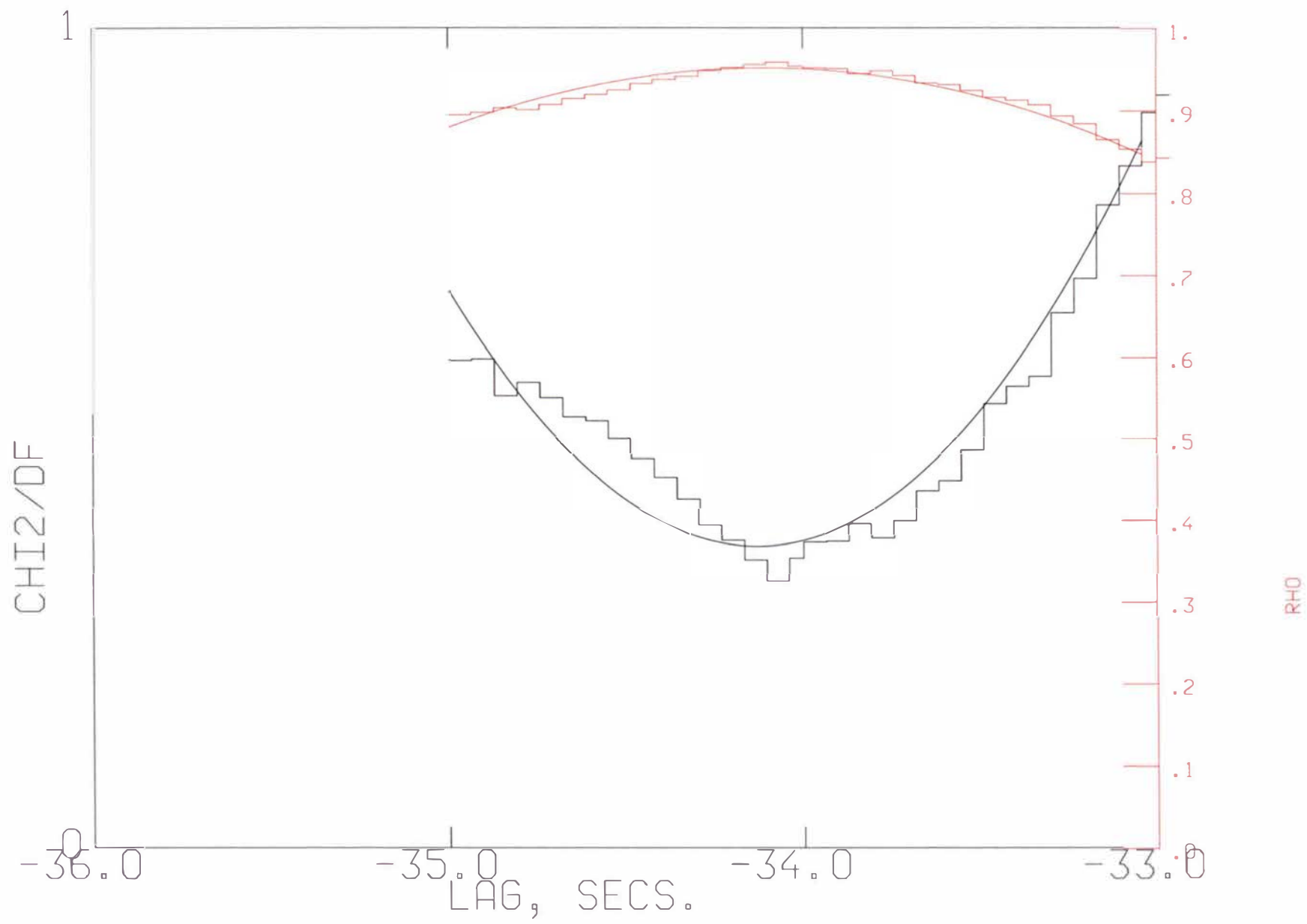


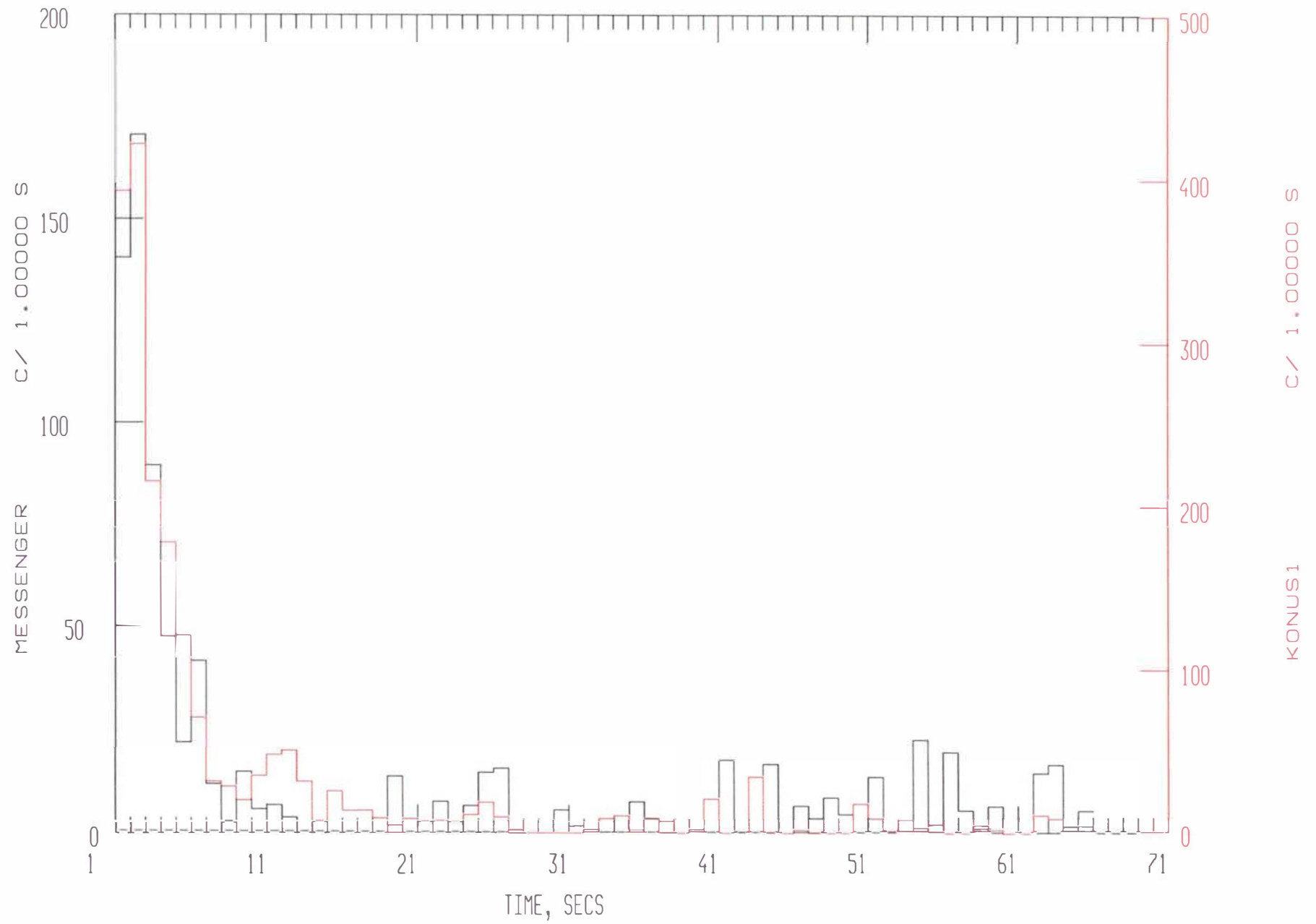
EVENT OF AUG 23, 2011 17:11

20/09/2011

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





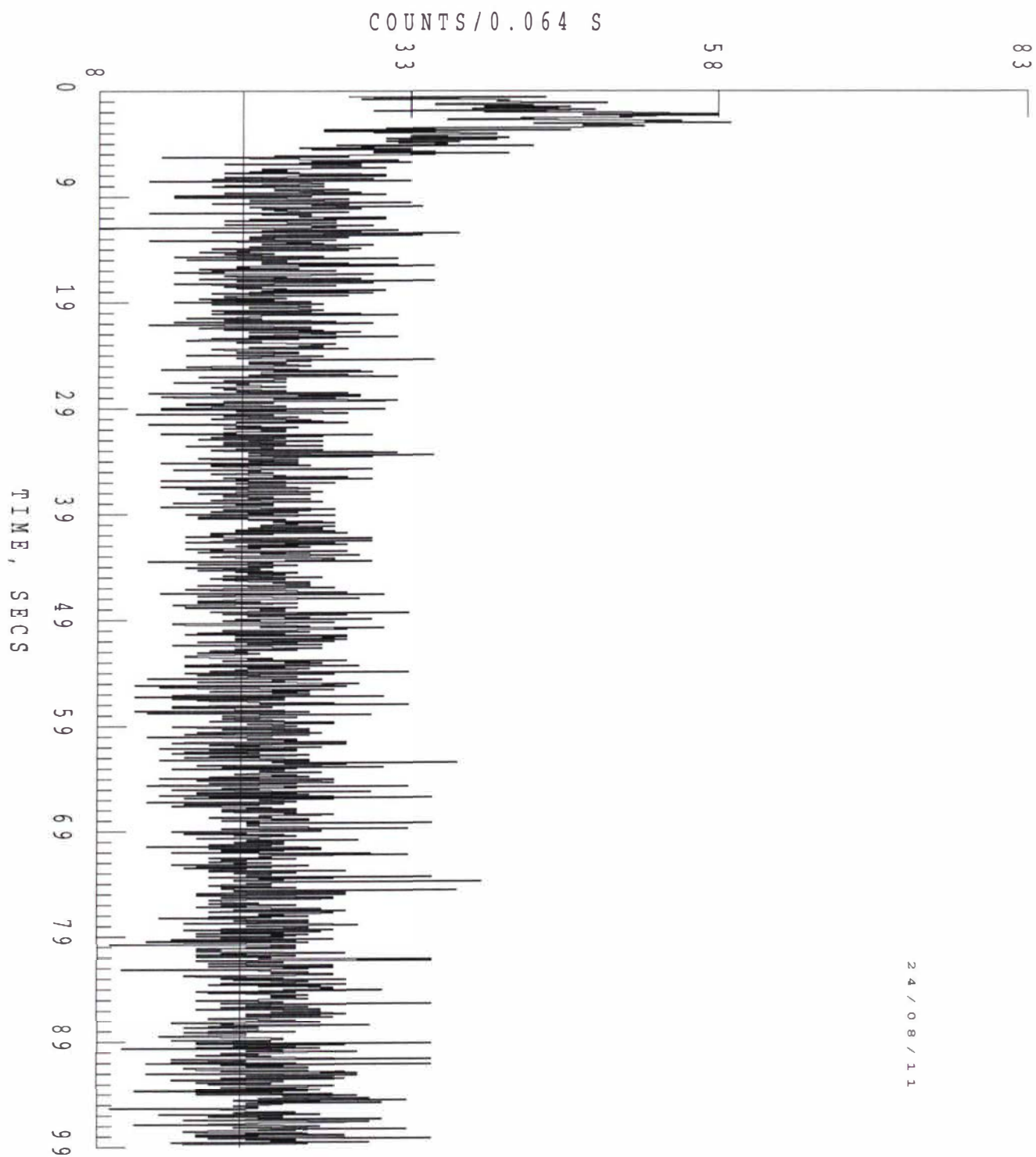


KONUS1

23/08/11

61907.614

50 - 200 keV



KONUS HRES 20110823 61907

TRIGGER TIME: 23/08/11 DOY 235 Julian 2455798.21652 UT = 17.196 17:11:47 (61907.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

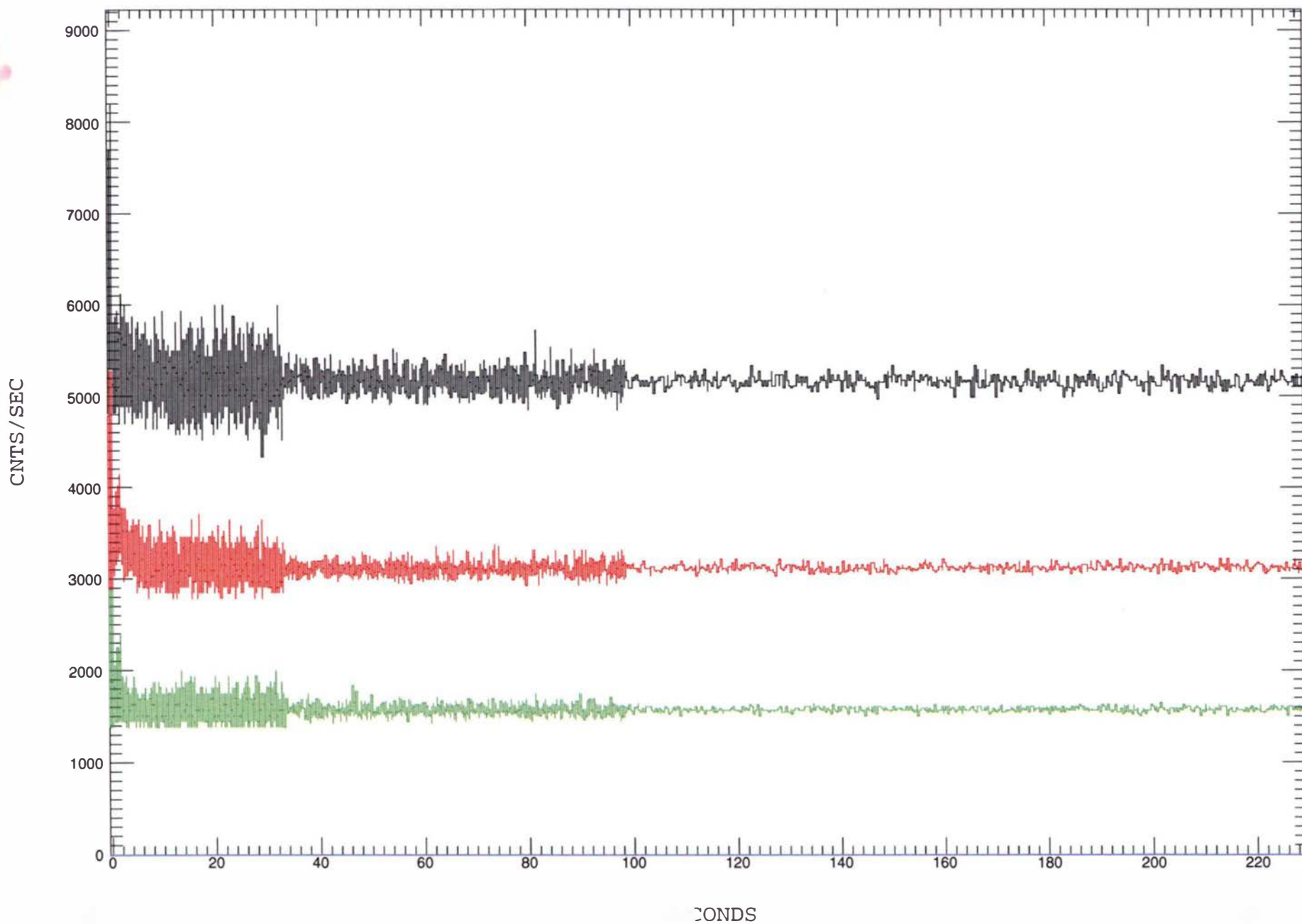
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



From williams@gammaburst.ssl.berkeley.edu Mon Aug 29 13:07:31 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 29 Aug 2011 13:06:52 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI_data_for_AGILE_20110823_61903
X-Ucb-Scan-Signature: 3f8425eb5abfa5ff79f7bdf2e341c9e3bdb1df0c
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 29-Aug-2011 13:07:38.00
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

From yamaoka@phys.aoyama.ac.jp Sat Aug 27 10:10:24 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Sun, 28 Aug 2011 02:10:13 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
Cc: yamaoka@phys.aoyama.ac.jp, ohno@astro.isas.jaxa.jp,
khurley@ssl.berkeley.edu, val@mail.ioffe.ru
Subject: Re: GRB110822 58871 Suzaku Ephemeris : ae20110822_1836_1838 BST03
X-Ucb-Scan-Signature: aed8aae764ac2343f05a9c3ac7c00d867c1ced4a
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Hi Kevin and Valentin,

This burst should correspond to the MCAL event at 2011-08-23 17:11:43.
But I can not get the correct time for this burst right now because
some data required for time assignment are lost.
After standard processing of the Suzaku data, I will be able to get it.

Best wishes,
Kazu

On Tue, 23 Aug 2011 18:55:59 +0000 (UTC)
aetouban@astro.isas.jaxa.jp (Astro-E2 USC Duty Scientist) wrote:

> 6949.215 234.94 -14.98

8

From ipn-bounces@ssl.berkeley.edu Wed Aug 24 01:55:38 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
From: Martino Marisaldi <marisaldi@iasfbo.inaf.it>
Date: Wed, 24 Aug 2011 10:56:21 +0200
To: ipn@ssl.berkeley.edu
Subject: [Ipn] possible GRB detected by AGILE MCAL on 23/8/11 at 17:11:43 UT
X-Ucb-Scan-Signature: d6cac9e67aa6abee75e315c310bd6c2f17d21d14
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_MESSAGE 0.001,
MIME_HTML_MOSTLY 0.001, MIME_QP_LONG_LINE 0.001, RP_MATCHES_RCVD -0.505'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear colleagues,

61903

AGILE MCAL triggered on a possible burst on 23/8 at 17:11:43 UT, see the attached figure.

SuperAGILE did not detect this burst.

I could not find any GCN or Fermi trigger for that time.

Any other detection?

In attachment the ASCII light curve with 16ms time bin (the burst is quite weak as seen by MCAL) and the ephemeris (101.27379 -2.0899367 = 6905.4978). Please note the ephemeris correspond to 40sec before the trigger time because of a GPS data gap. This in turn should correspond to a maximum ~1ms in light travel time.

Best wishes,

Martino

on behalf of the AGILE Team.

Martino Marisaldi
INAF / IASF
Via P. Gobetti 101
40129 Bologna ITALY

Phone: +39 051 6398662 +39 051 6398654

Fax: +39 051 6398723

marisaldi@iasfbo.inaf.it

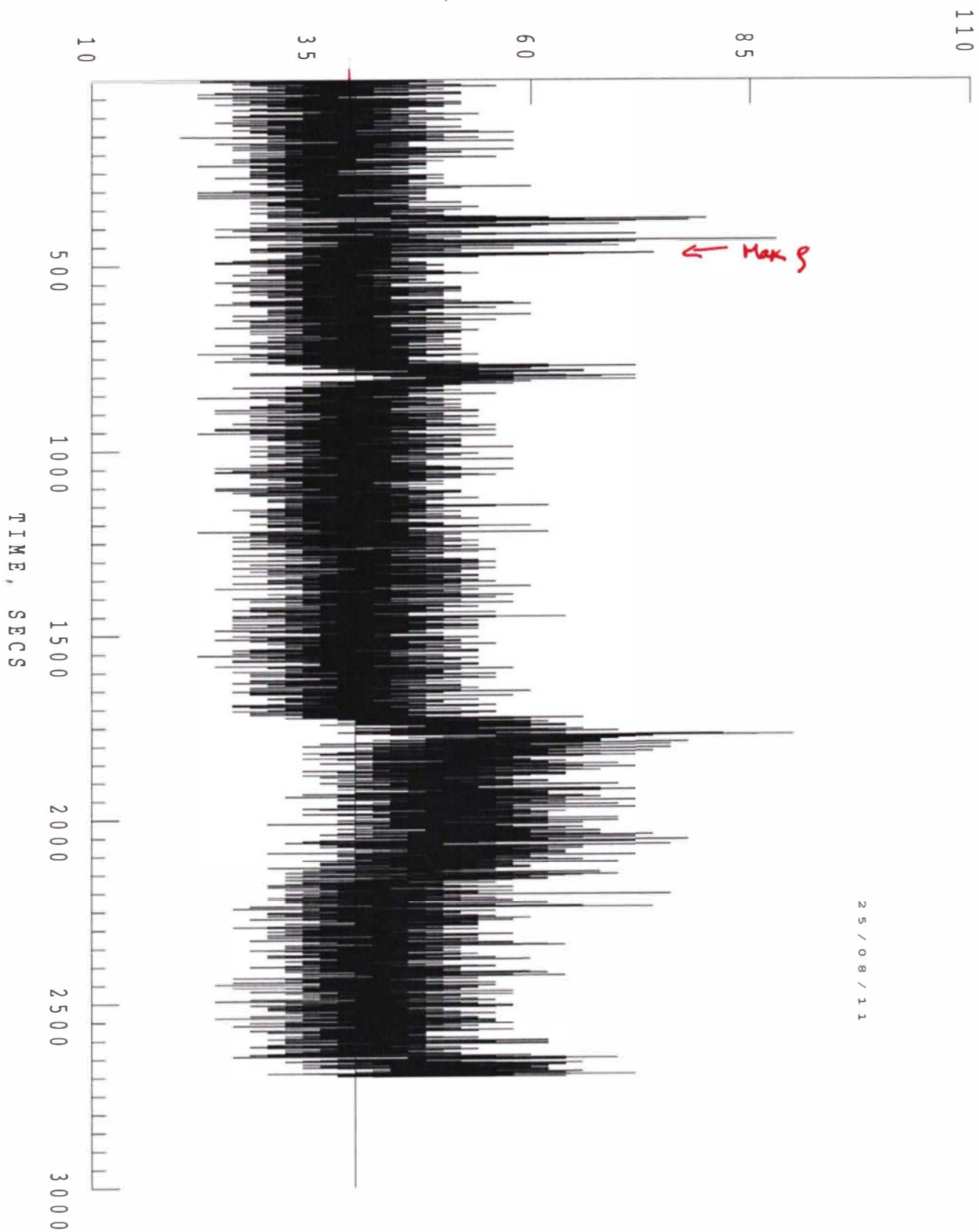
MS01

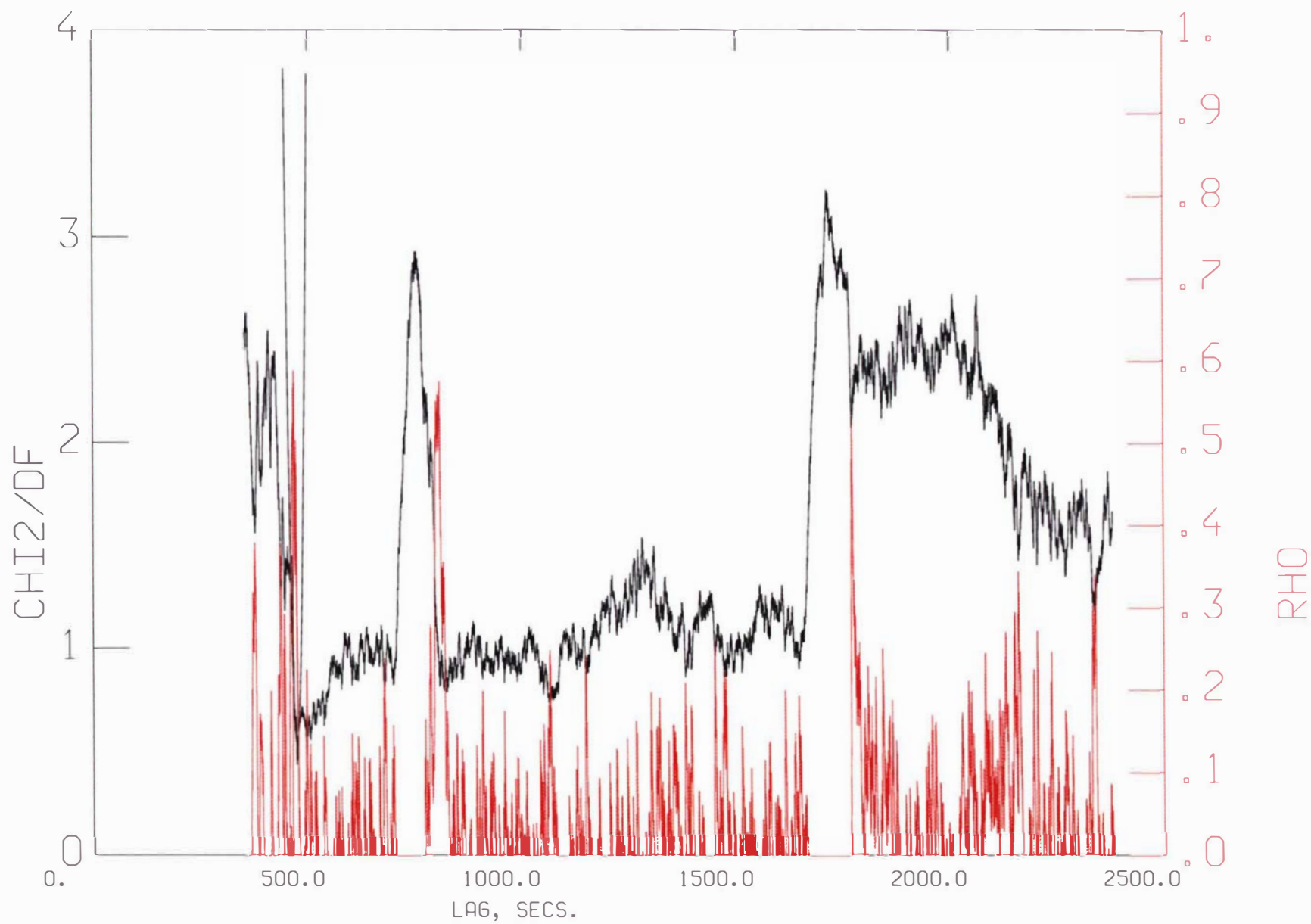
23/08/11

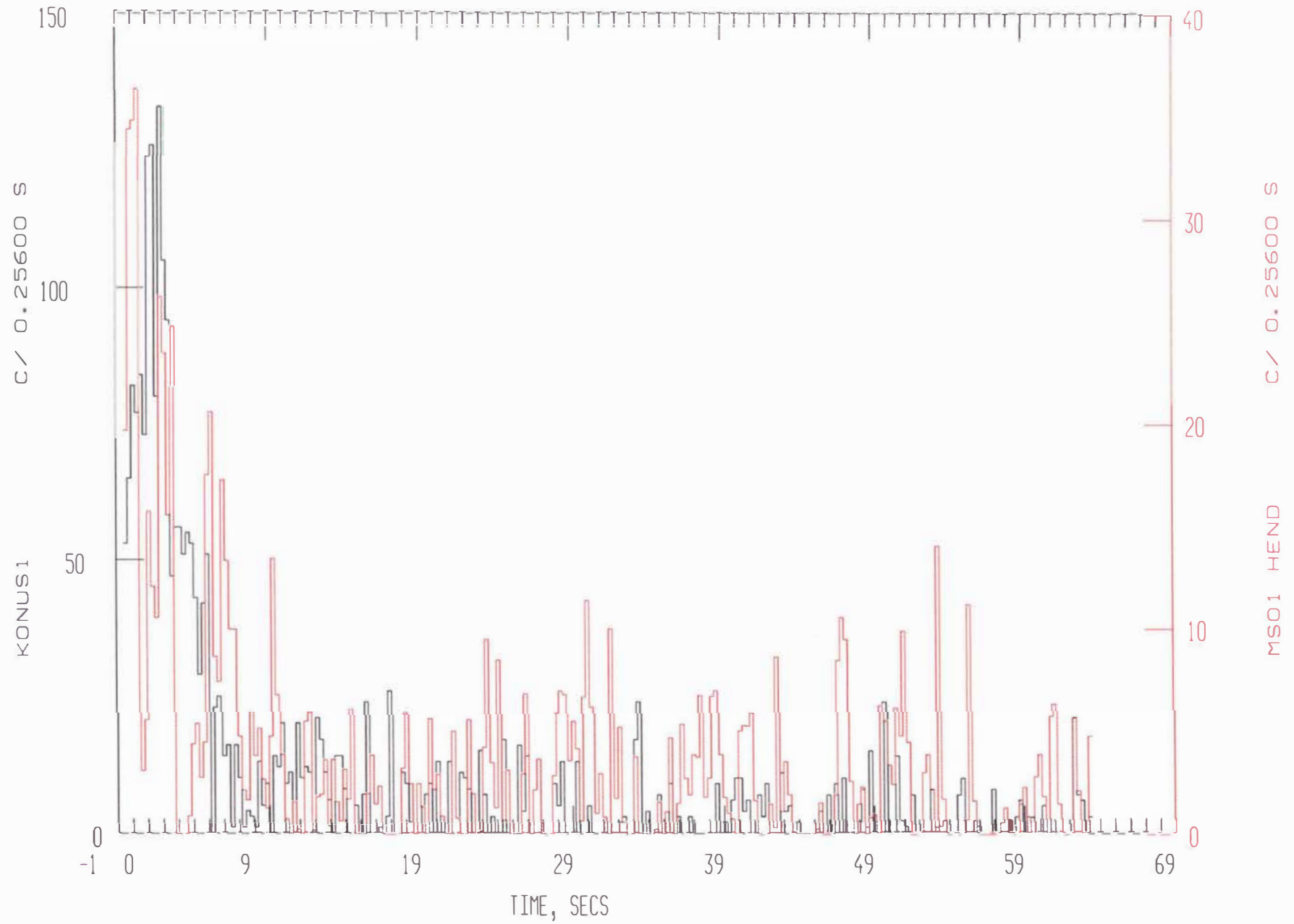
60541.473

50 - 3000 keV

COUNTS/0.250 S







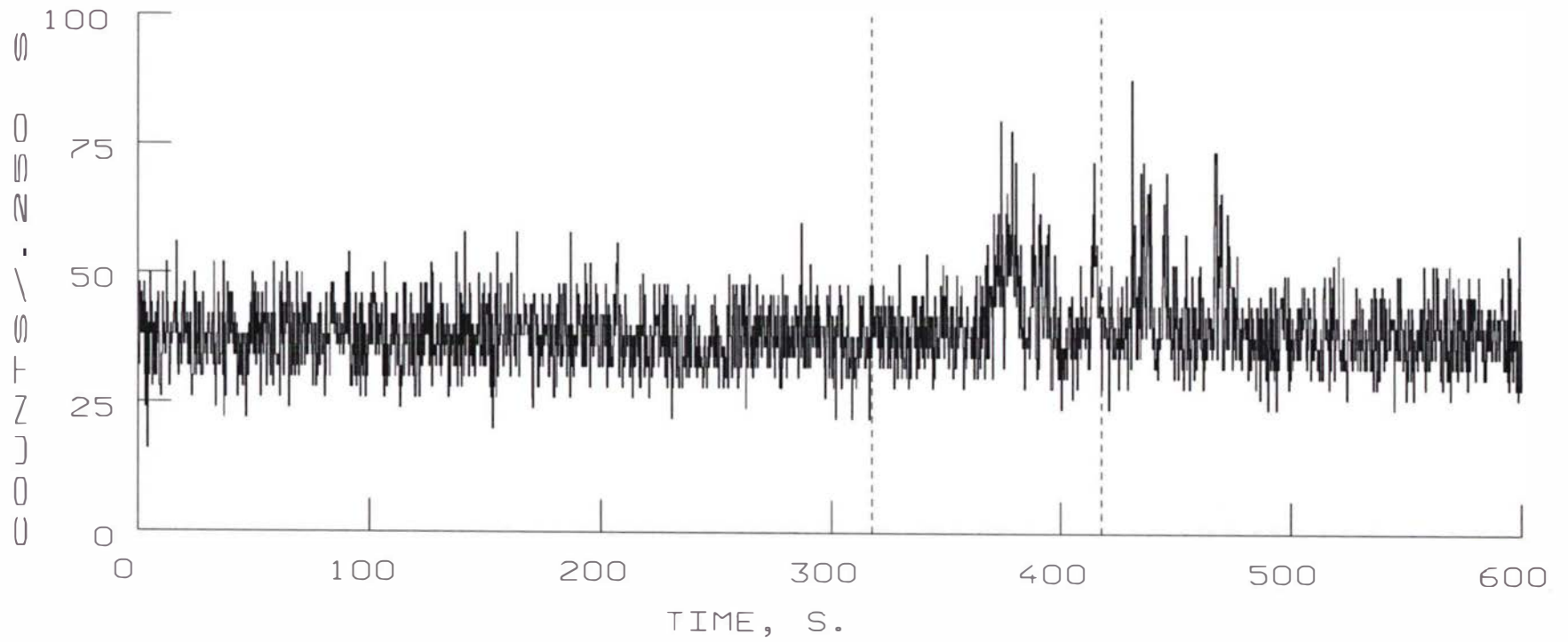
MS01 HEND

19/09/2011

23/08/2011 60541.473 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



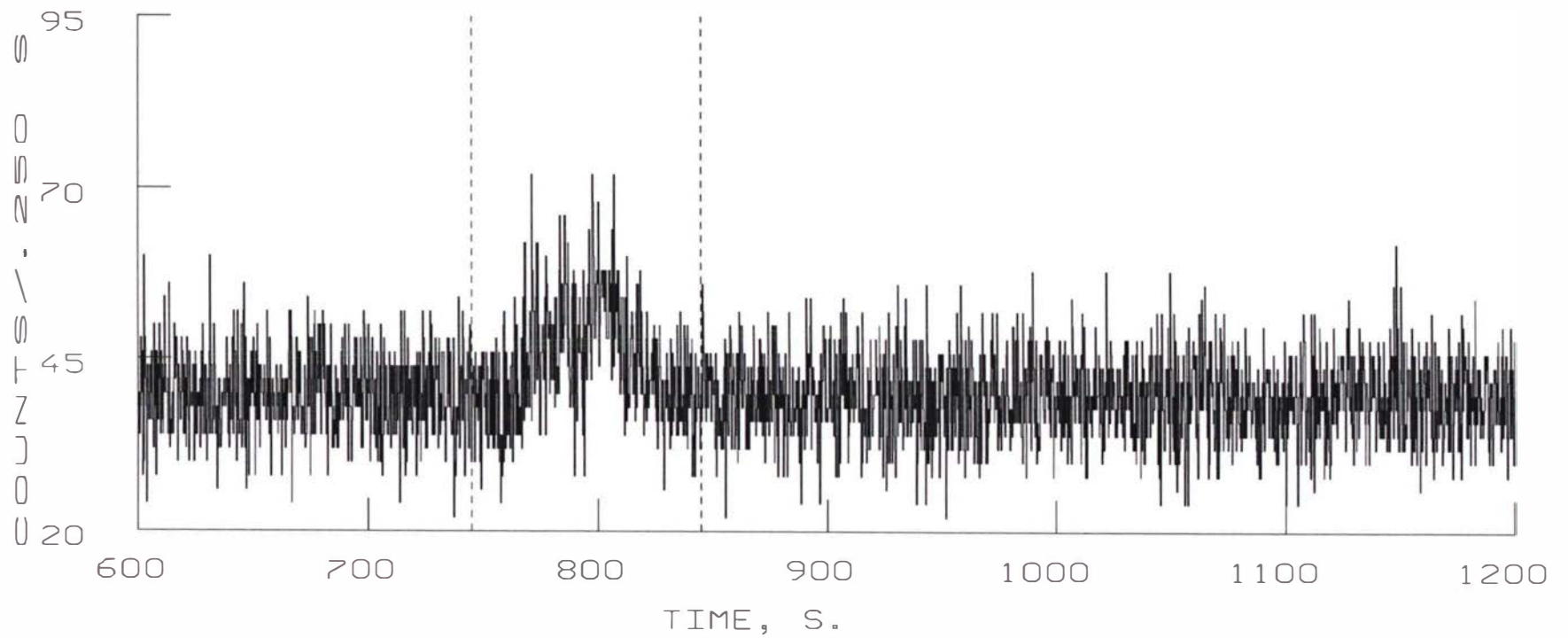
MS01 HEND

19/09/2011

23/08/2011 60541.473 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



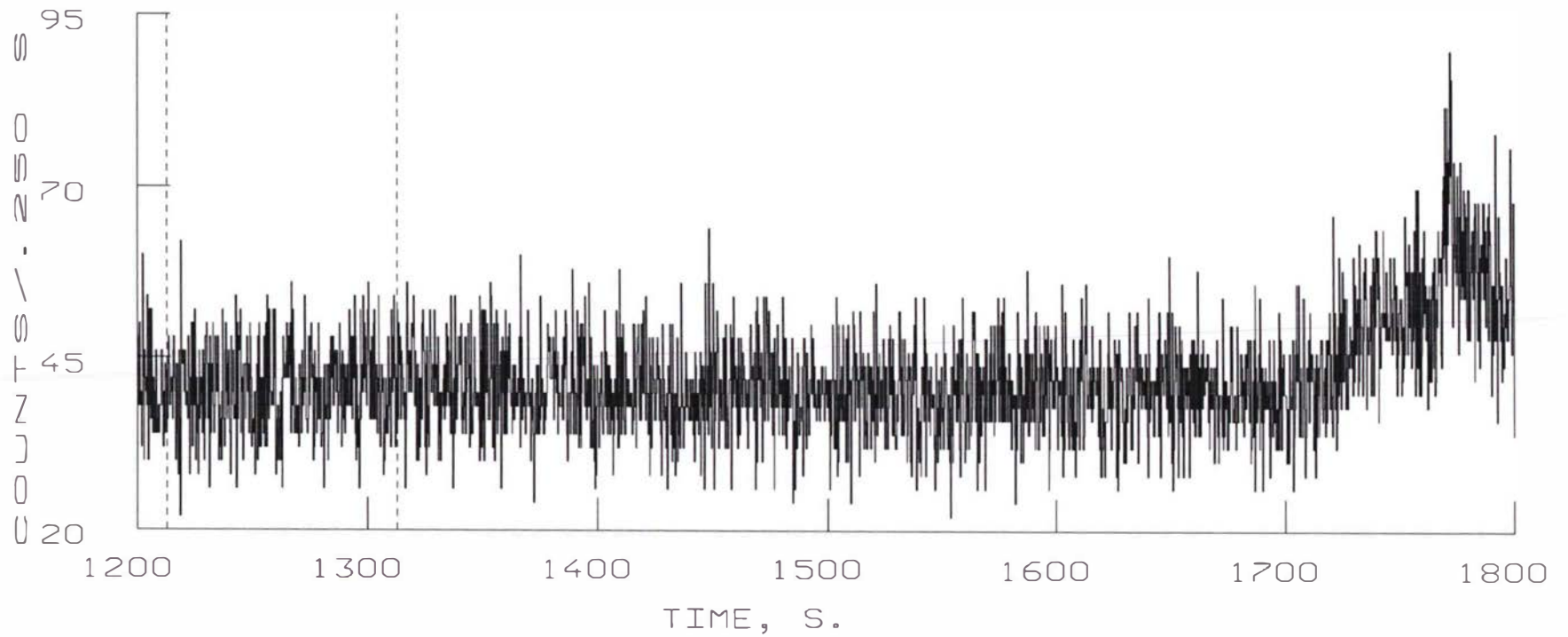
MS01 HEND

19/09/2011

23/08/2011 60541.473 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



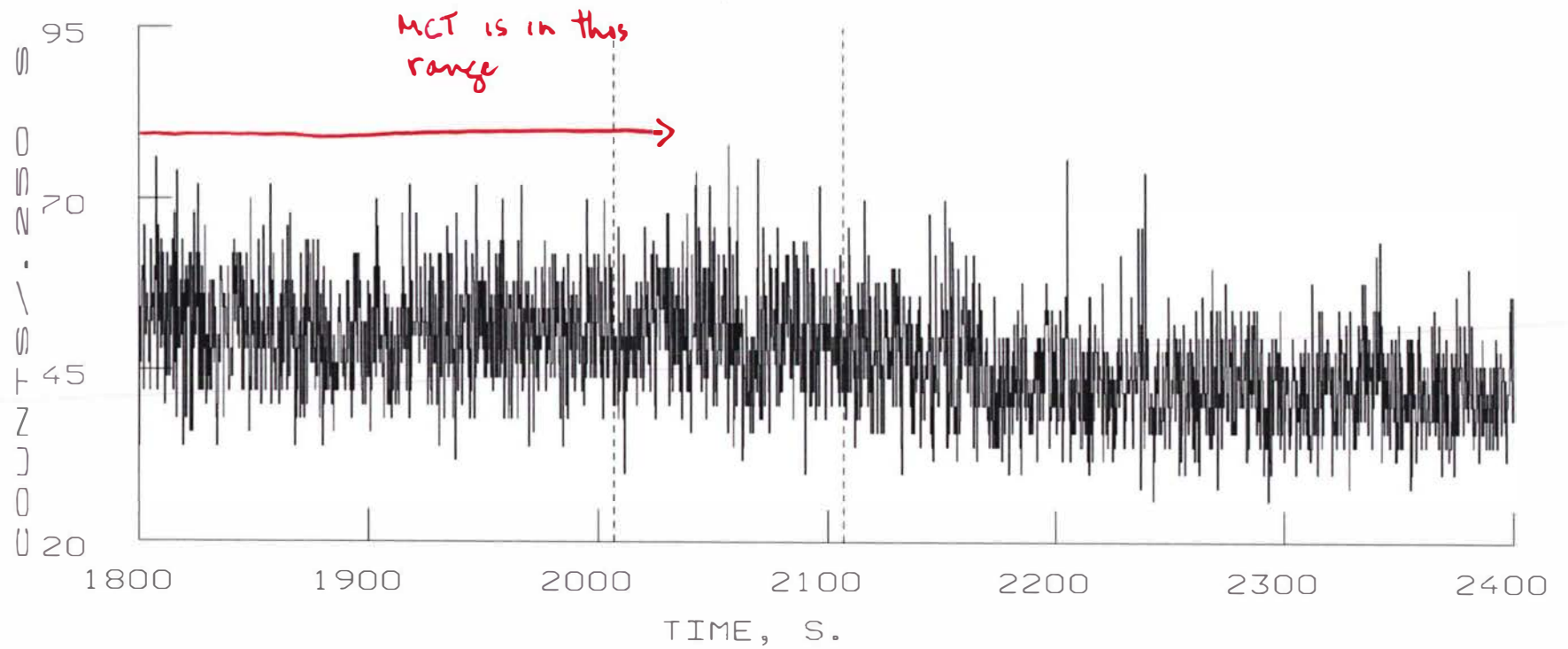
MS01 HEND

19/09/2011

23/08/2011 60541.473 s

50-3000 keV

MAXIMUM



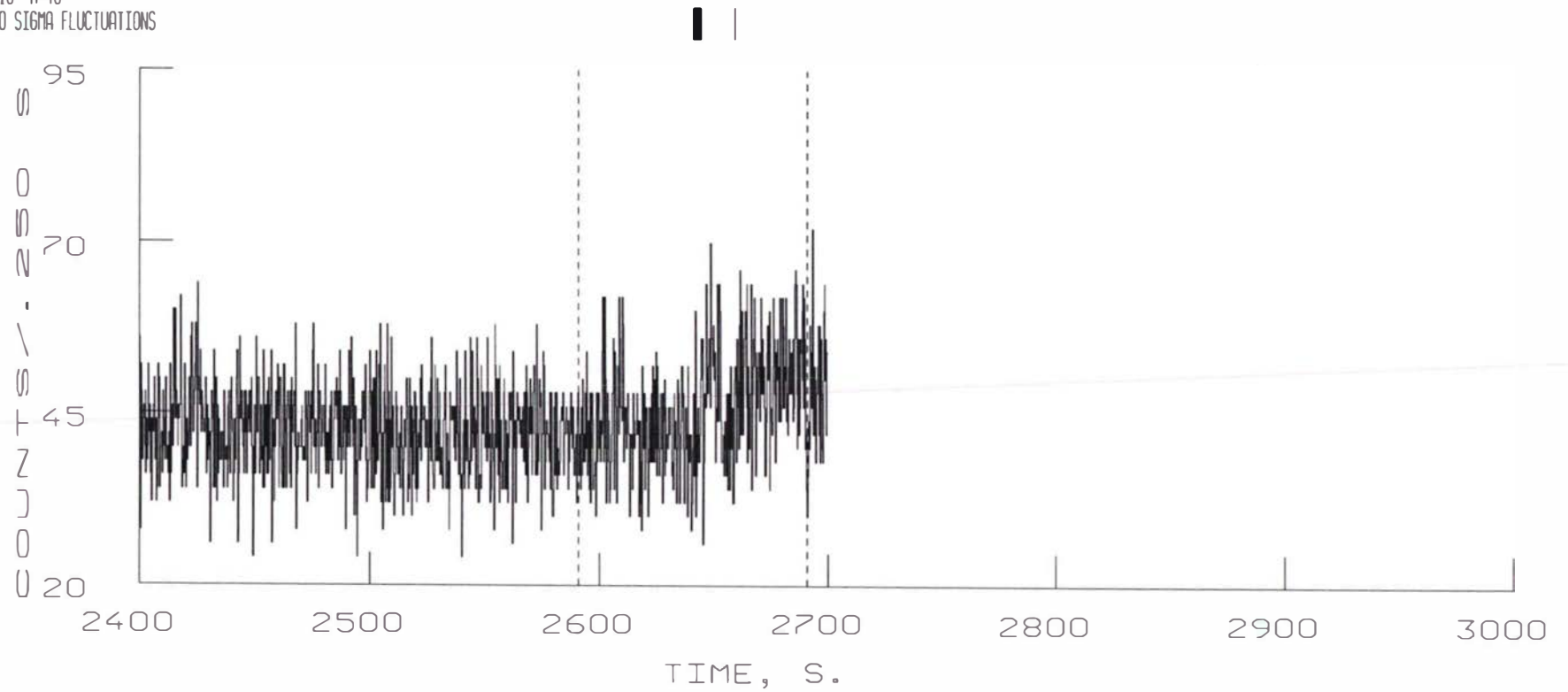
MS01 HEND

19/09/2011

23/08/2011 60541.473 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



B

From yamaoka@phys.aoyama.ac.jp Mon Sep 19 16:01:26 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Tue, 20 Sep 2011 08:02:08 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: Kevin Hurley <khurley@ssl.berkeley.edu>
Cc: yamaoka@phys.aoyama.ac.jp
Subject: Re: GRB110822?
X-Ucb-Scan-Signature: 3a82860f22639ed8479cf77408982873e5bd9bcf
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Hi Kevin,

This one probably corresponds to 2011-08-23 17:11:43.
Some data around the burst are lost, so I cannot assign the
correct time right now.
I am waiting for the Suzaku data processing, and will
revise my table after checking the processed data.

Best wishes,
Kazu

On Mon, 19 Sep 2011 13:59:10 -0700 (PDT)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear Kazu,
>
> I noticed that the WAM trigger on August 22 2011 at 58871 is not
in the list on the website. Although we have no confirmation of
it on any IPN spacecraft, it does look like it might be cosmic.
> What do you think it is?
>
> Kevin

SUZAKU

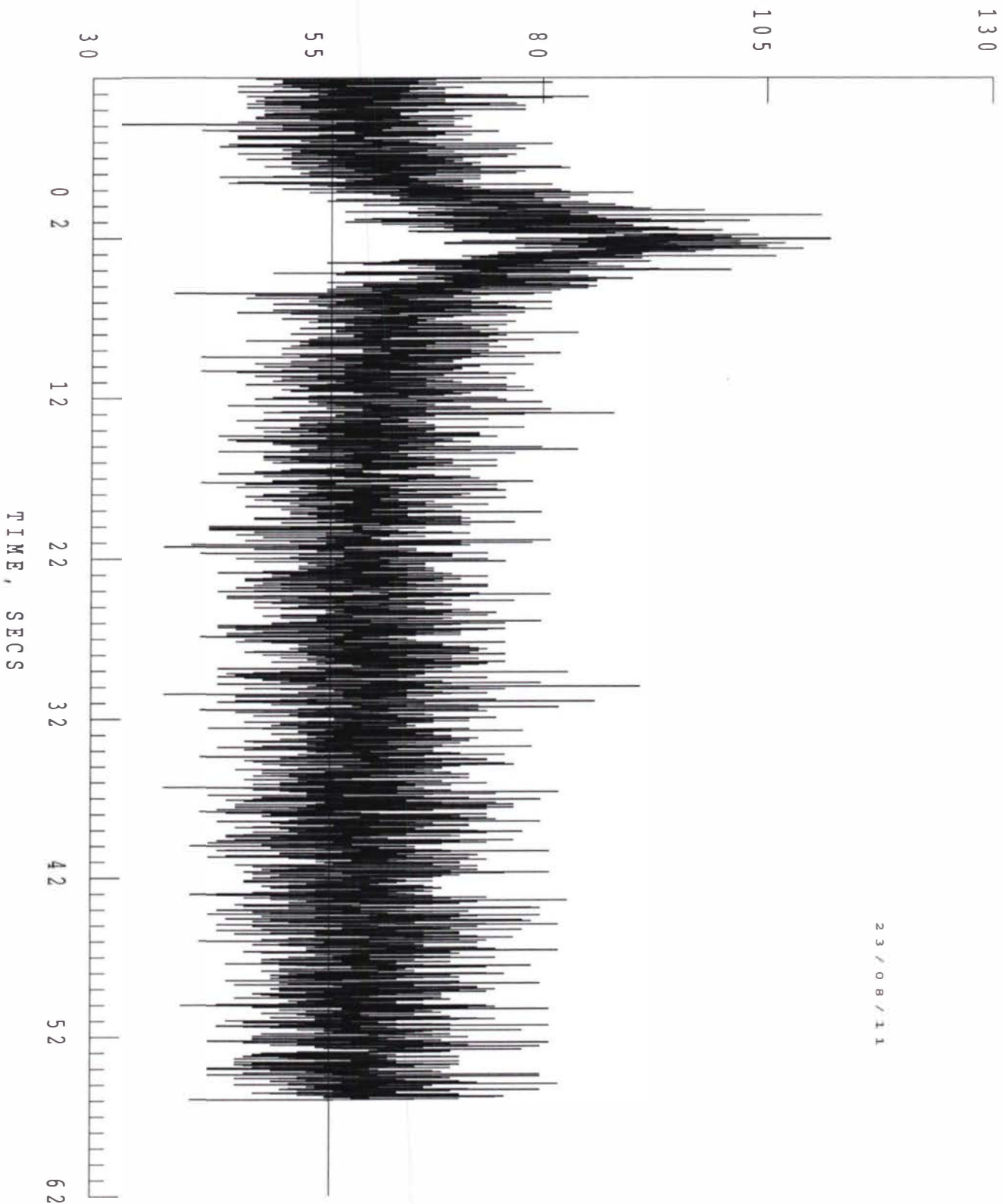
22/08/11

58871.938

B

50 - 240 keV

COUNTS/0.016 S

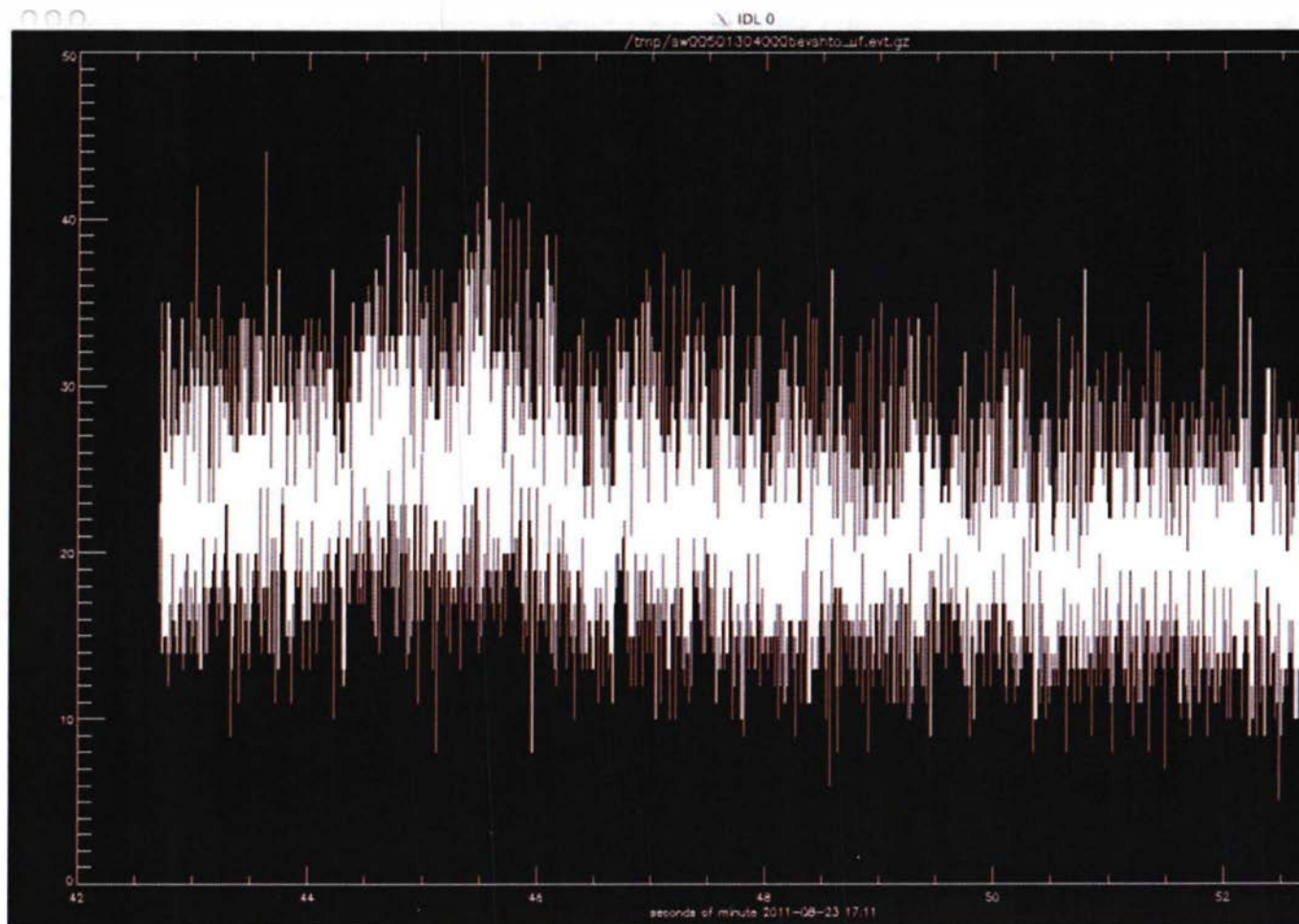


B

Subject: Re: [Ipn] possible GRB detected by AGILE MCAL on 23/8/11 at 17:11:43 UT
From: David Palmer <palmer@lanl.gov>
Date: Thu, 25 Aug 2011 13:53:25 -0600
To: "Valentin Pal'shin" <val@mail.ioffe.ru>
CC: ipn@ssl.berkeley.edu

As for the others; the 64 ms light curve was sent out automatically (watch out for instrumental artifact at $T \pm 10$), here is the 2 ms event-by-event lightcurve

Screen shot 2011-08-25 at 1:52 06 PM.png



```
% /usr/local/bin/swinfo -o 335812314.905
Time(MET + UTCF -> UT): 335812314.905 + -7.291 -> 2011-08-23T17:11:47.614
Swift Zenith(RA,dec): 118.48, -0.25
Swift Location(lon,lat,alt): -110.97 E, -0.28 N, 590 km
Obs Sequence Number: 00045508001
Obs Target Name: LMC_Survey_87
Obs Date and Times: 2011-08-23 16:56:54 - 17:11:49
Obs Pointing(ra,dec,roll): 87.236, -69.968, 66.89
```

On Aug 25, 2011, at 7:33 AM, Valentin Pal'shin wrote:

Dear Martino,

AGILE MCAL triggered on a possible burst on 23/8 at 17:11:43 UT, see the attached figure.
SuperAGILE did not detect this burst.
I could not find any GCN or Fermi trigger for that time.

Any other detection?

Re: [Ipn] possible GRB detected by AGILE MCAL on 23/8/11 at 17:...

This GRB triggered Konus-Wind at T0(KW)=61907.614 s UT (17:11:47.614).
The source of the burst is in the southern ecliptic hemisphere at medium
to high ecliptic latitude.

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

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

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

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

Screen shot 2011-08-25 at 1.52.06 PM.png

Content-Type: image/png
Content-Encoding: base64

Part 1.3

Part 1.3

Content-Type: text/plain
Content-Encoding: 7bit

sw00501304000bevshito_uf.evt.gz.ipn

sw00501304000bevshito_uf.evt.gz.ipn

Content-Encoding: 7bit

Part 1.5

Part 1.5

Content-Type: text/plain
Content-Encoding: quoted-printable

Part 1.6

Part 1.6

Content-Type: text/plain
Content-Encoding: 7bit

Subject: [Ipn] BAT lightcurve for trigger at 110823_1711

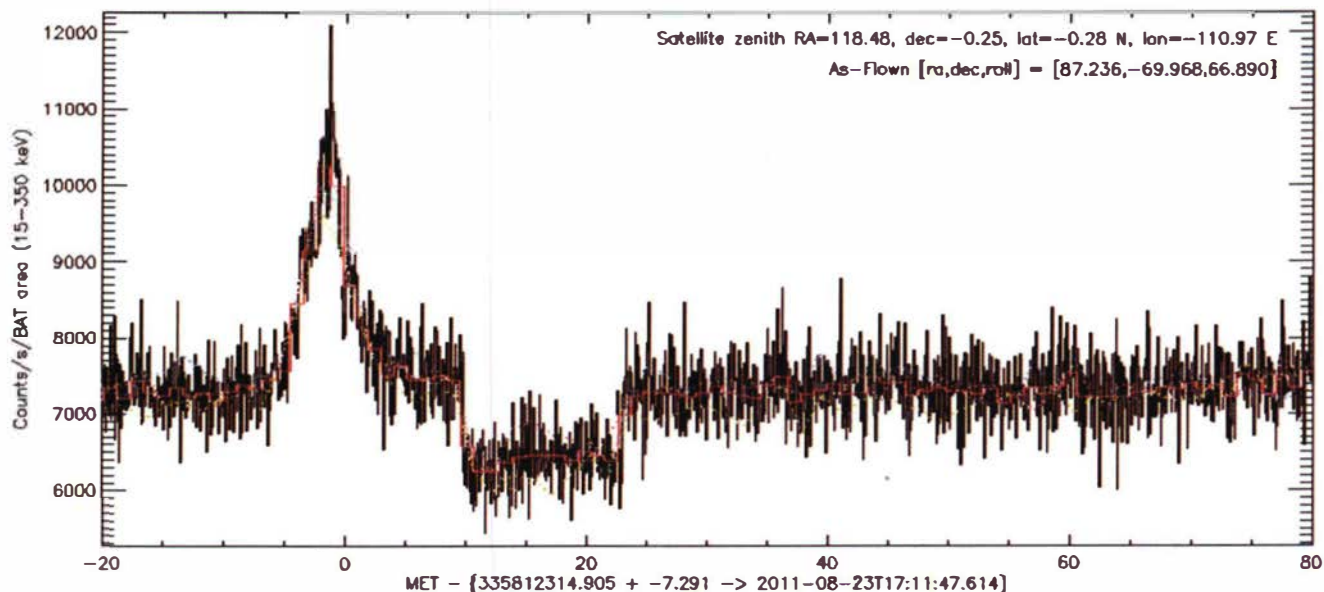
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 24 Aug 2011 16:53:00 -0600 (MDT)

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

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

/tmp/110823_1711.png



```
% /usr/local/bin/swinfo -o 335812314.905
Time(MET + UTCF -> UT):      335812314.905 + -7.291 -> 2011-08-23T17:11:47.614
Swift Zenith(RA,dec):        118.48, -0.25
Swift Location(lon,lat,alt):  -110.97 E, -0.28 N, 590 km
Obs Sequence Number:         00045508001
Obs Target Name:              LMC_Survey_87
Obs Date and Times:           2011-08-23 16:56:54 - 17:11:49
Obs Pointing(ra,dec,roll):    87.236, -69.968, 66.89
```

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>

/tmp/110823_1711.png Content-Type: image/png
Content-Encoding: base64

/tmp/110823_1711_bat64ms_ipn

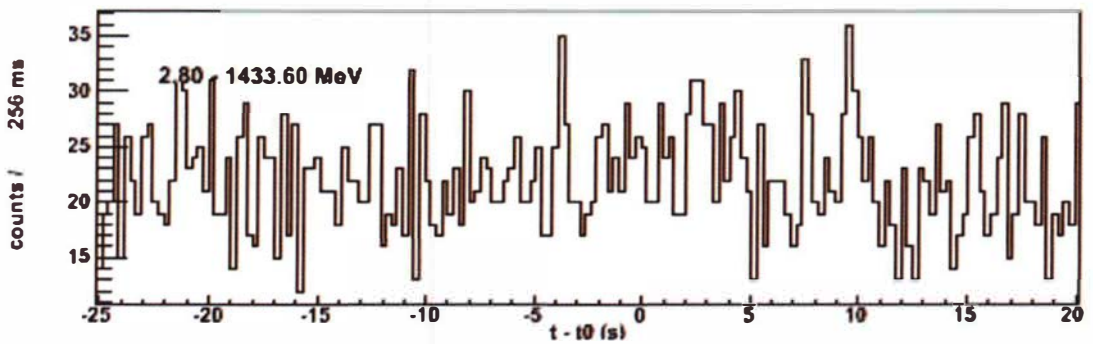
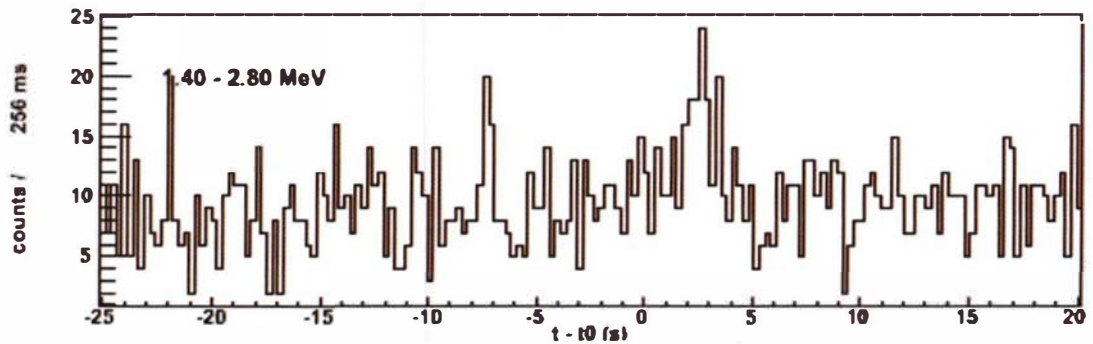
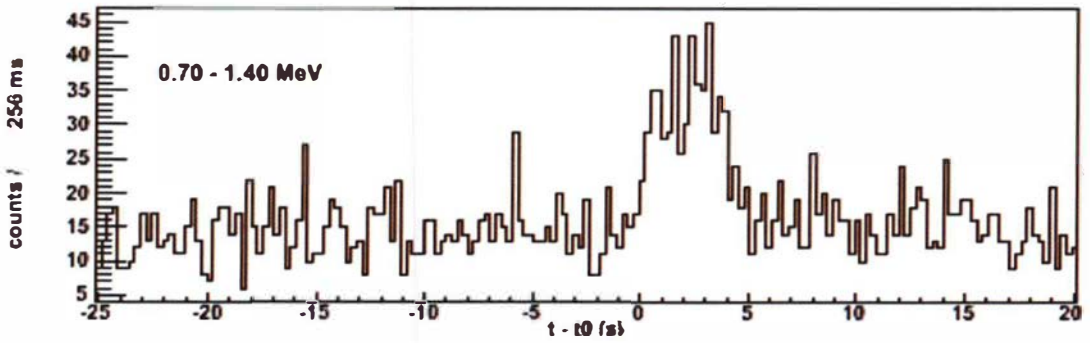
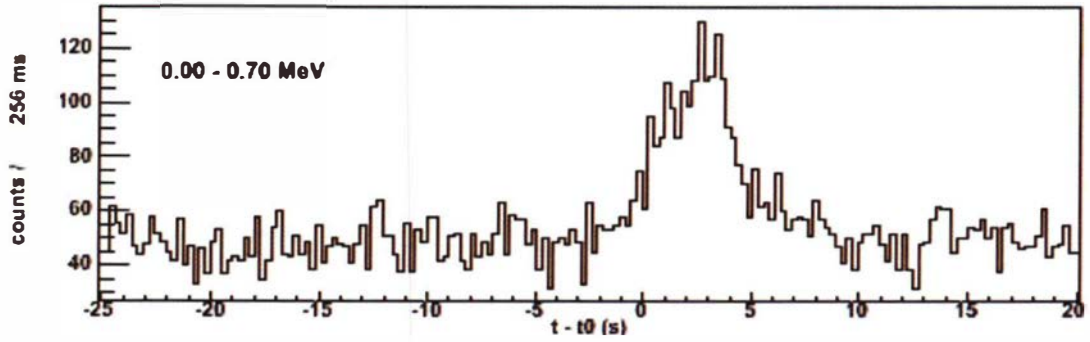
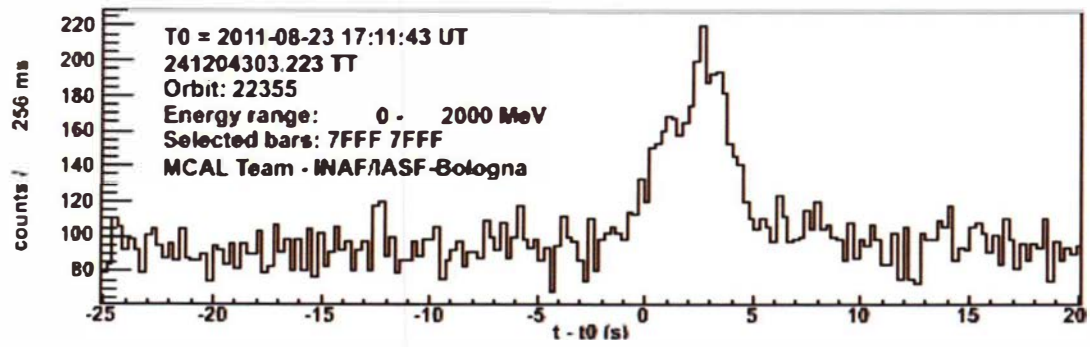
/tmp/110823_1711_bat64ms_ipn Content-Type: application/octet-stream
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit



3

From ipn-bounces@ssl.berkeley.edu Wed Aug 24 05:58:40 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Wed, 24 Aug 2011 08:58:36 -0400
From: Jay Cummings <Jay.Cummings@nasa.gov>
To: Martino Marisaldi <marisaldi@iasfbo.inaf.it>
Cc: "ipn@ssl.berkeley.edu" <ipn@ssl.berkeley.edu>
Subject: Re: [Ipn] possible GRB detected by AGILE MCAL on 23/8/11 at 17:11:43 UT
X-Ucb-Scan-Signature: 48f835740d791b8e5e28652e11112ebb9ee73a14
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_MESSAGE 0.001, RCVD_IN_DNSWL_MED -2.3, RP_MATCHES_RCVD -0.505'
X-Ucb-Notice: This message has been processed by a spam tagging system.

-----050006050206040006080800
Content-Type: text/plain; charset="ISO-8859-1"; format=flowed
Content-Transfer-Encoding: 7bit

BAT detected the rate increase just before a preplanned slew. Based on the energy response, the source was probably out of the field of view but entered the field of view during the slew. I will investigate.

Regards,
Jay

On 8/24/11 4:56 AM, Martino Marisaldi wrote:

> Dear colleagues,
>
> AGILE MCAL triggered on a possible burst on 23/8 at 17:11:43 UT, see the attac
> SuperAGILE did not detect this burst.
I could not find any GCN or Fermi trigger for that time.
>
> Any other detection?
>
> In attachment the ASCII light curve with 16ms time bin (the burst is quite wea
> before the trigger time because of a GPS data gap. This in turn should correspo
>
> Best wishes,
> Martino
> on behalf of the AGILE Team.
>

-----050006050206040006080800
Content-Type: text/html; charset="ISO-8859-1"
Content-Transfer-Encoding: 7bit

```
<html>
  <head>
    <meta content="text/html; charset=ISO-8859-1"
      http-equiv="Content-Type">
  </head>
  <body bgcolor="#FFFFFF" text="#000000">
    BAT detected the rate increase just before a preplanned slew. Based
    on the energy response, the source was probably out of the field of
    view but entered the field of view during the slew. I will
    investigate.<br>
    <br>
    Regards,<br>
    Jay<br>
    <br>
```

B

From ipn-bounces@ssl.berkeley.edu Wed Aug 24 07:13:57 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Wed, 24 Aug 2011 23:13:31 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: Martino Marisaldi <marisaldi@iasfbo.inaf.it>
Cc: ipn@ssl.berkeley.edu
Subject: Re: [Ipn] possible GRB detected by AGILE MCAL on 23/8/11 at 17:11:43 UT
X-Ucb-Scan-Signature: 56e657d303a736de3ead9d63f08f81896ce449e6
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.532'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Hi Martino,

This burst triggered the Suzaku WAM. - *but no data available - or some data lost*

Best wishes,
Kazu

On Wed, 24 Aug 2011 10:56:21 +0200
Martino Marisaldi <marisaldi@iasfbo.inaf.it> wrote:

> Dear colleagues,
>
> AGILE MCAL triggered on a possible burst on 23/8 at 17:11:43 UT, see the attac
> SuperAGILE did not detect this burst.
> I could not find any GCN or Fermi trigger for that time.
>
> Any other detection?
>
> In attachment the ASCII light curve with 16ms time bin (the burst is quite wea
>
> Best wishes,
> Martino
> on behalf of the AGILE Team.
>
> =====
> Martino Marisaldi
> INAF / IASF
> Via P. Gobetti 101
> 40129 Bologna ITALY
>
> Phone: +39 051 6398662 +39 051 6398654
> Fax: +39 051 6398723
>
> marisaldi@iasfbo.inaf.it
> =====
>
> 'AGILEMCAL' '23/08/11' 61903.223104
> 330 2000000
> 5.75533 0.01600
> -9.984000 8.00000
> -9.968000 2.00000
> -9.952000 10.00000
> -9.936000 4.00000
> -9.920000 10.00000
> -9.904000 5.00000
> -9.888000 7.00000
> -9.872000 9.00000

B

08/08/11

MESSENGER

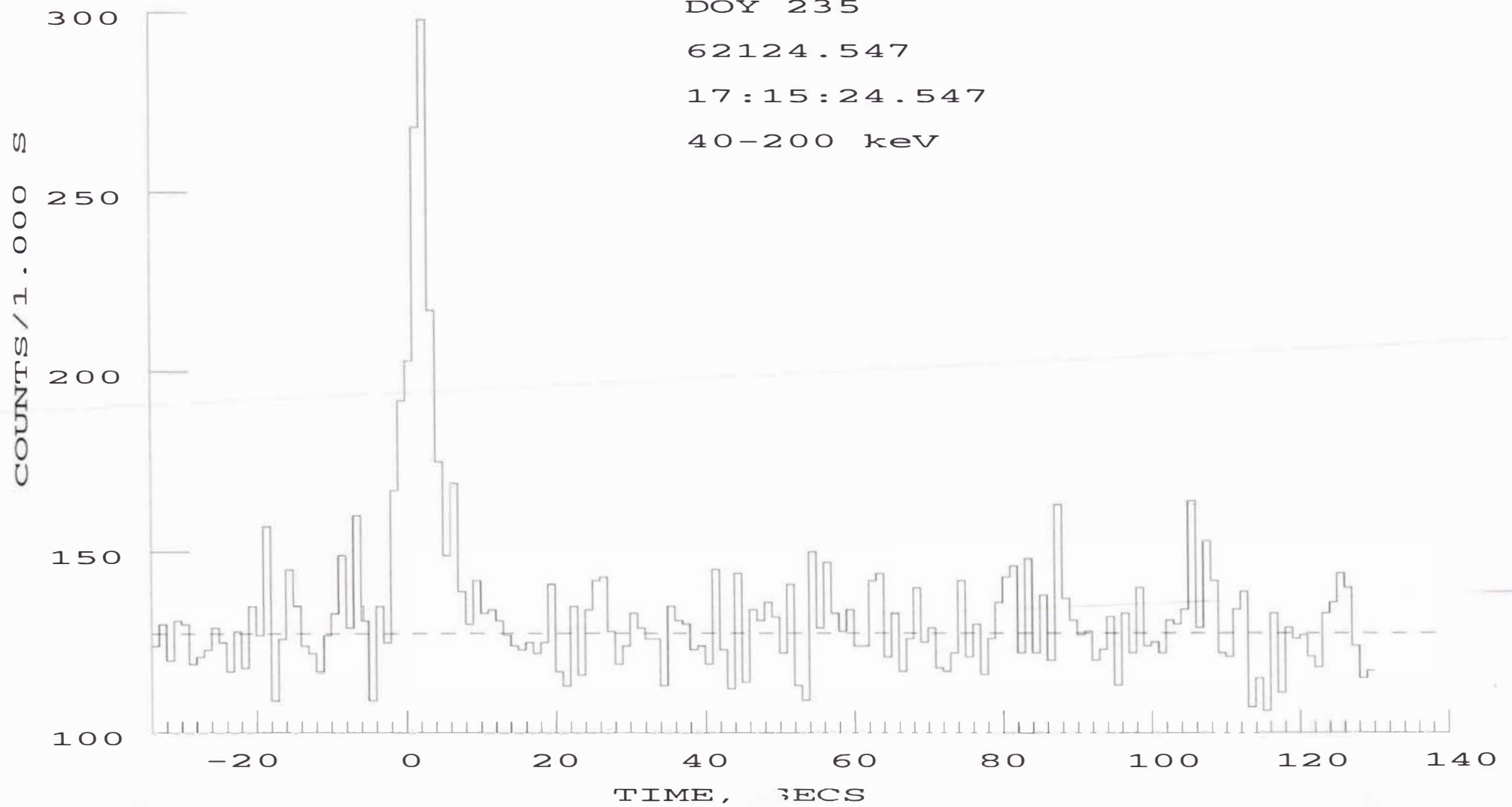
23/08/11

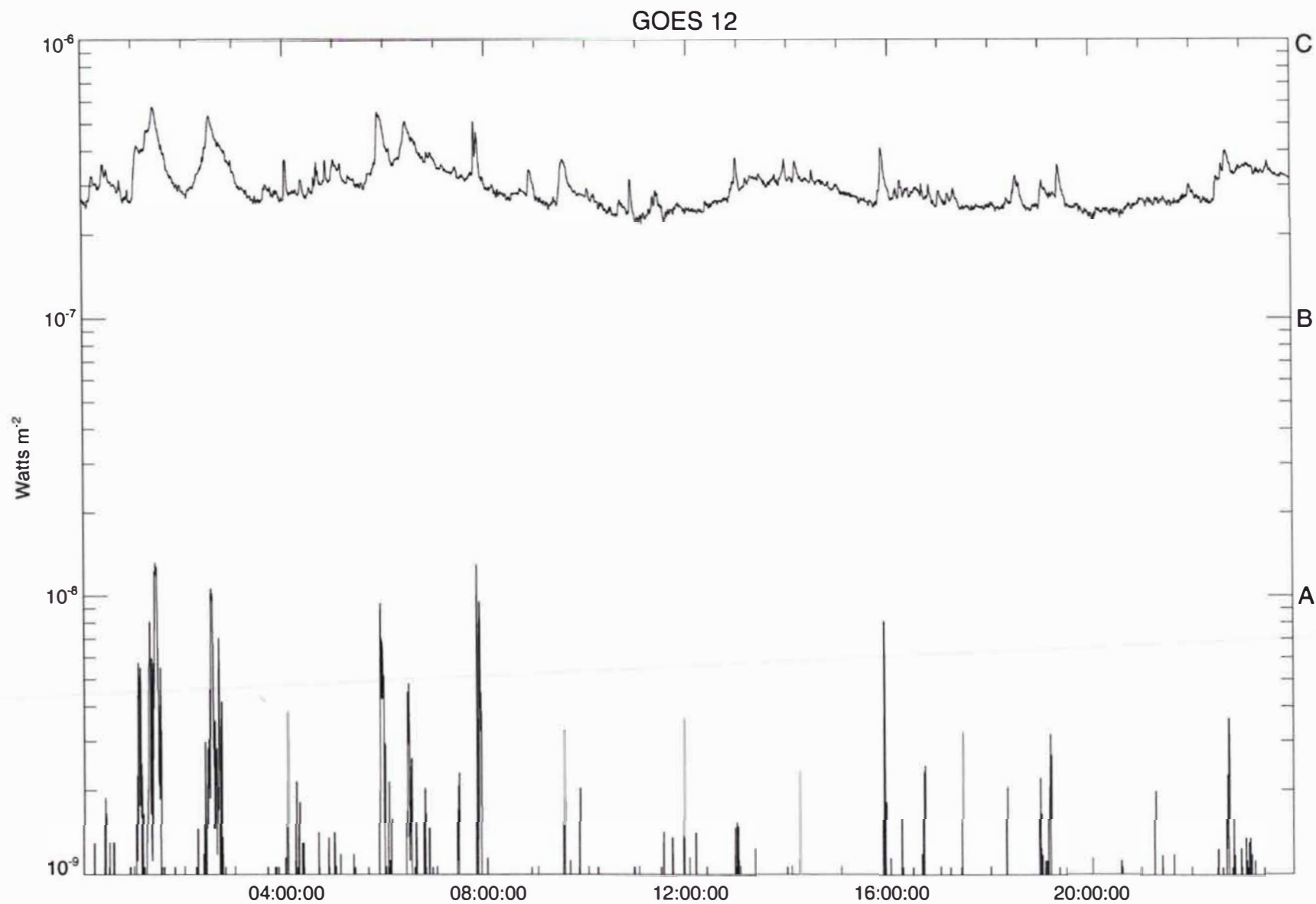
DOY 235

62124.547

17:15:24.547

40-200 keV





Data Start: 11/08/23, 0000:09

Plot created: 11/08/26, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: Sep 20 2011 + Jul 20 2016

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

- ☐ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

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)? 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?

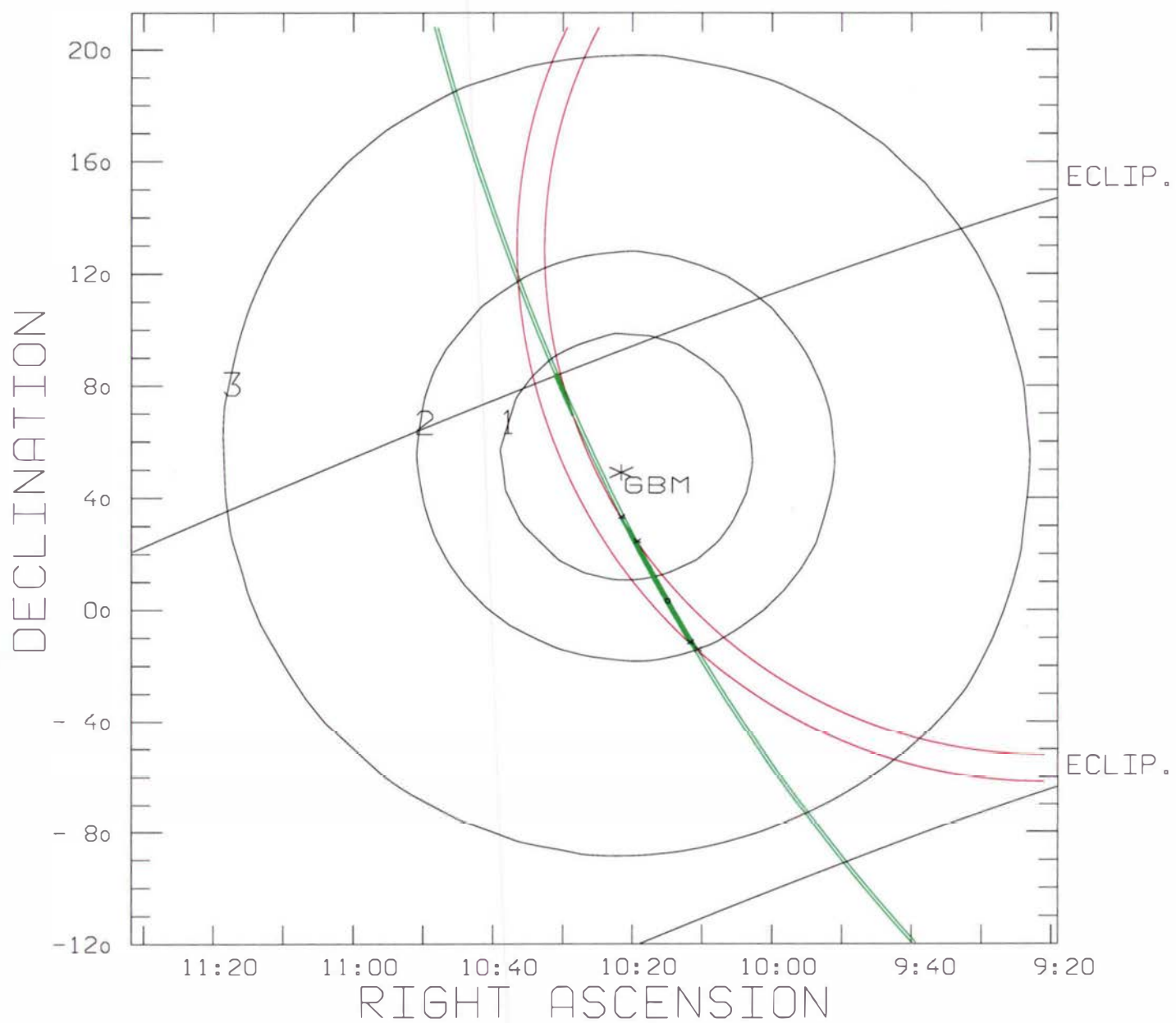
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?

- ☐ Hand-extracted data used (record starts at -30.000 s)?

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

GRB110824 ~00790 S

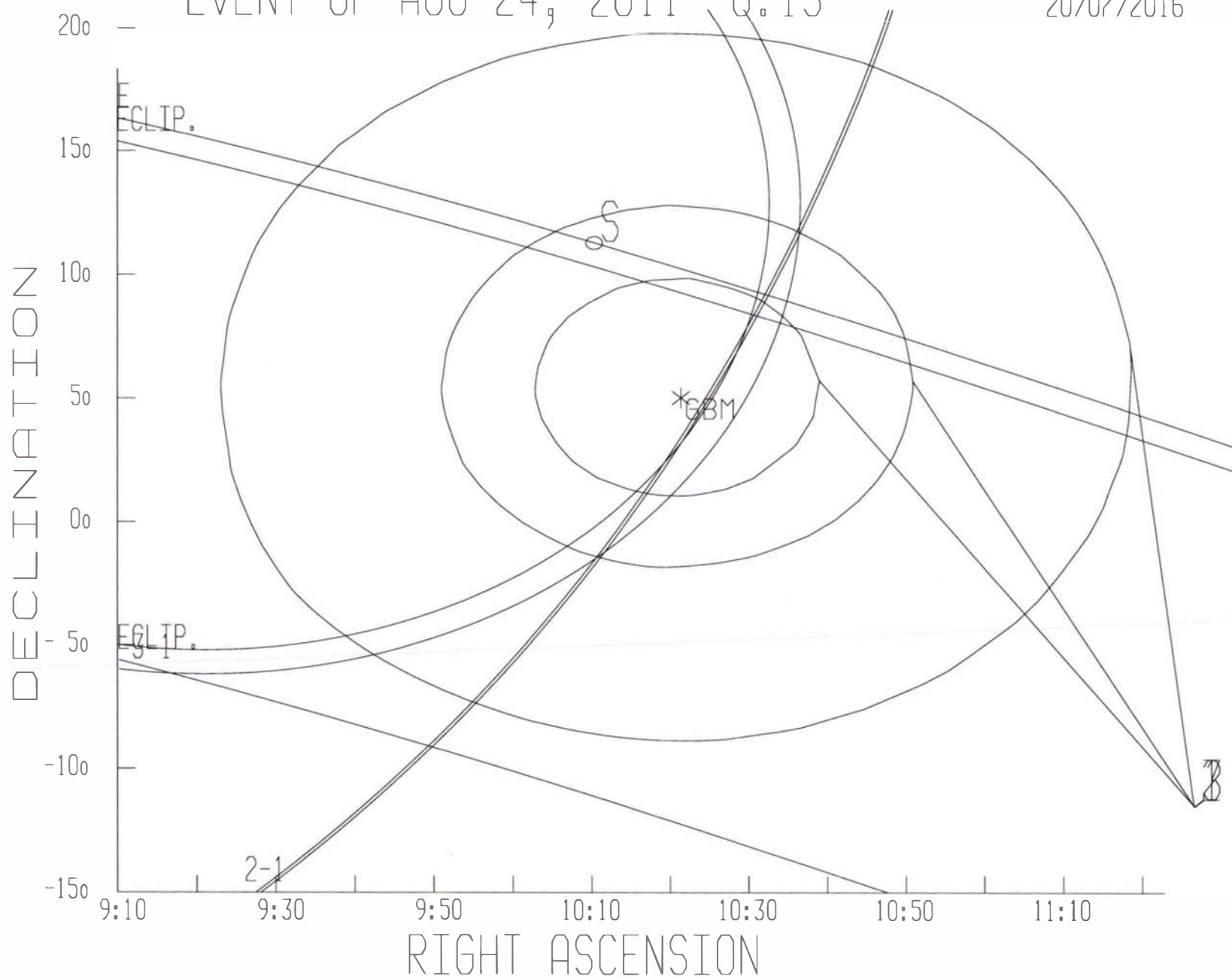
20/07/2016



EVENT OF AUG 24, 2011 Q:13

20/07/2016

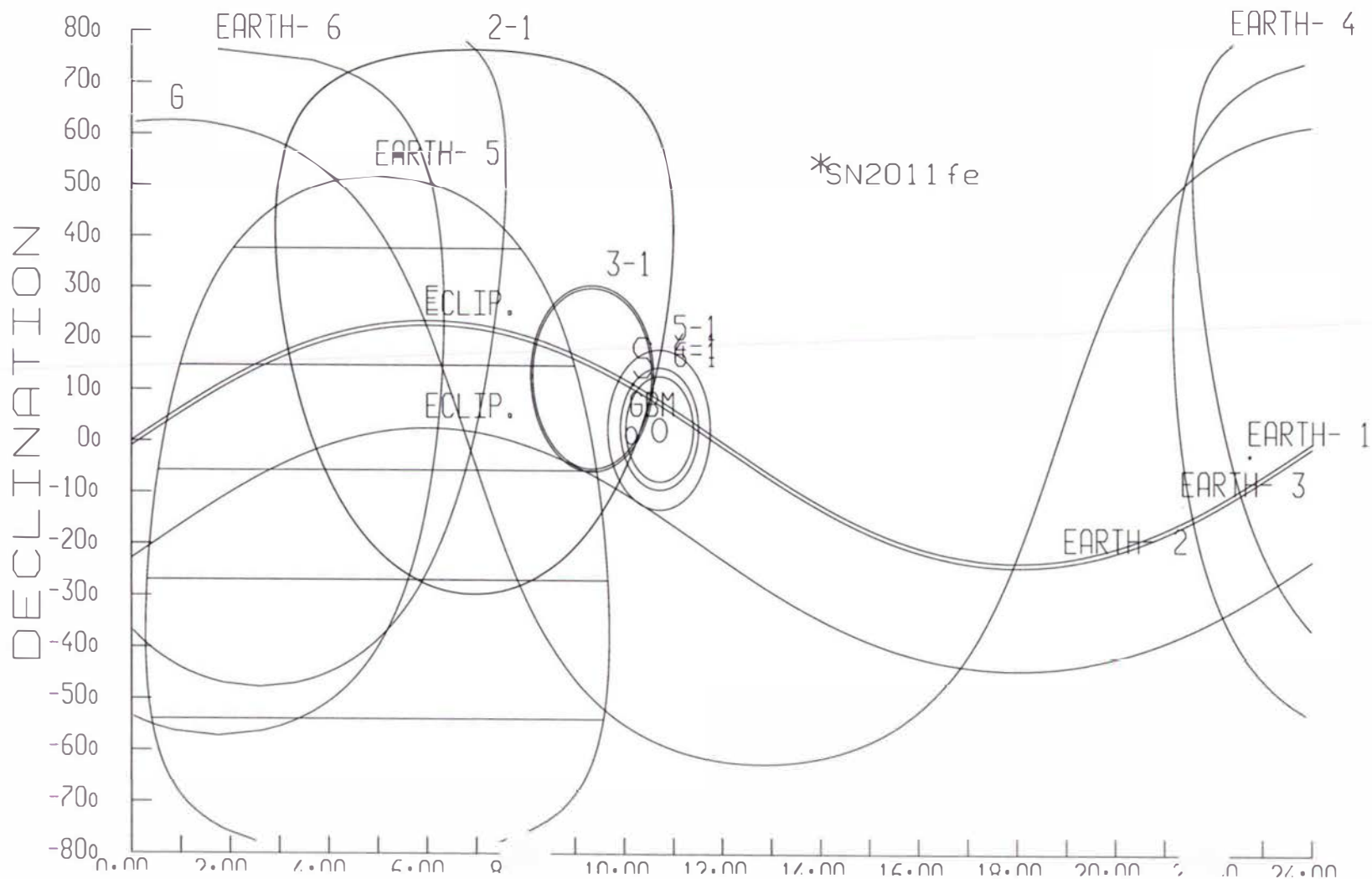
2-1 = CORRELATION BETWEEN SATELLITES 2 AND 1
EARTH-2 = EARTH AS SEEN FROM SATELLITE 2
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 KONUS2 2 MO 3 MESSENGER

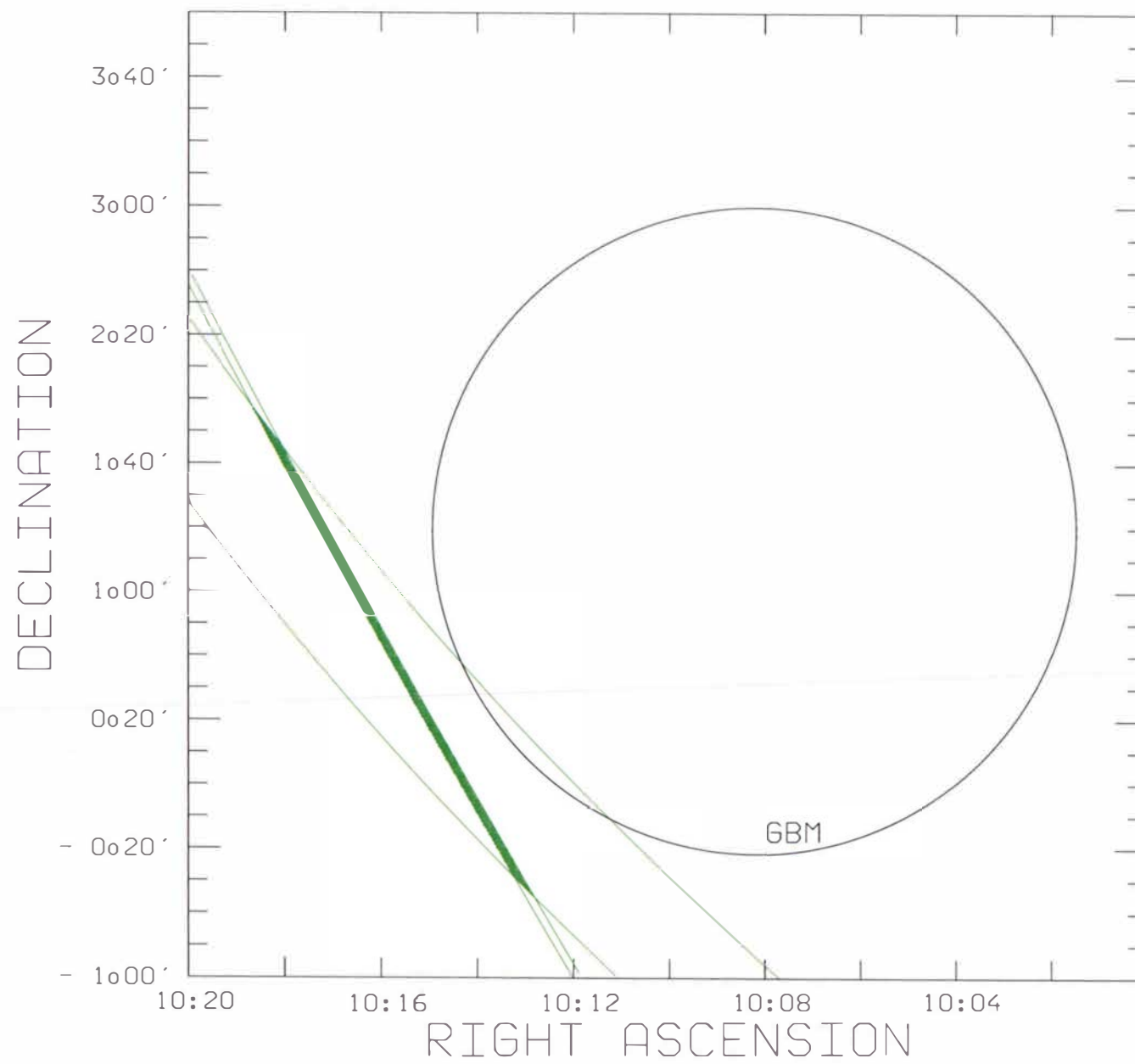


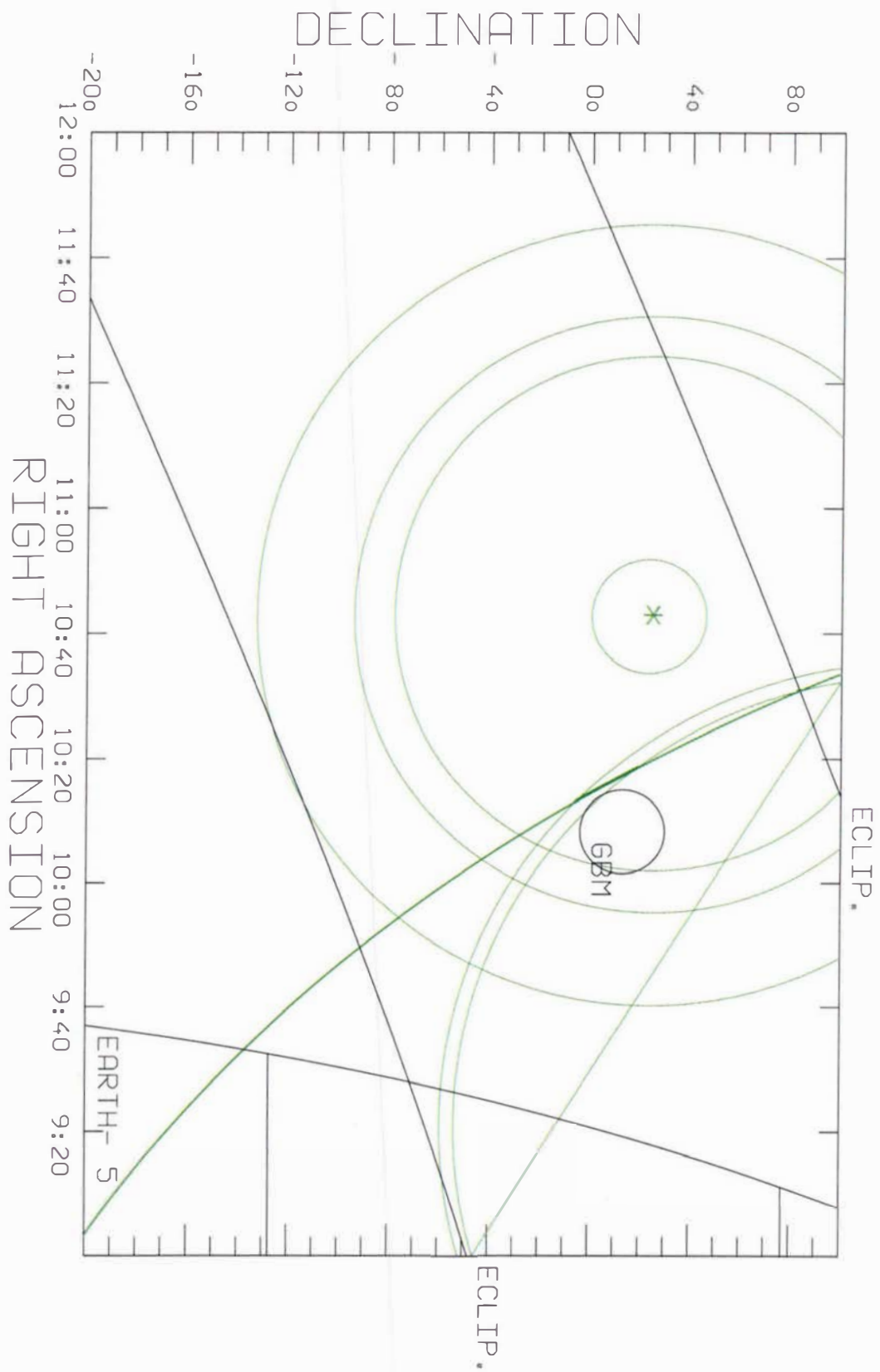
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN
 1 KONUS2 2 MO 3 MESSENGER 4 SUZAKU 5 SWIFT 6 FERMI

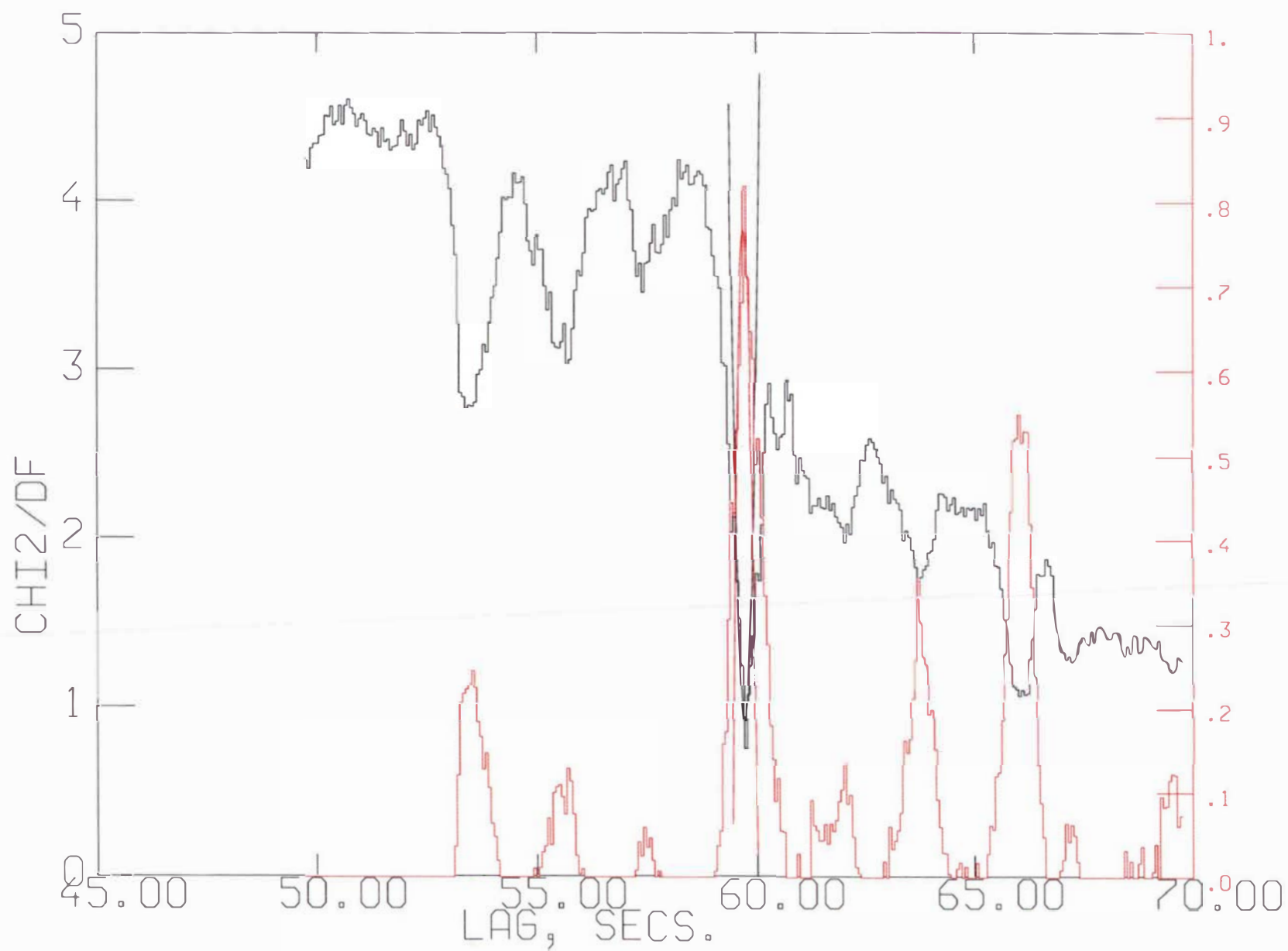
EVENT OF AUG 24, 2011 0:13

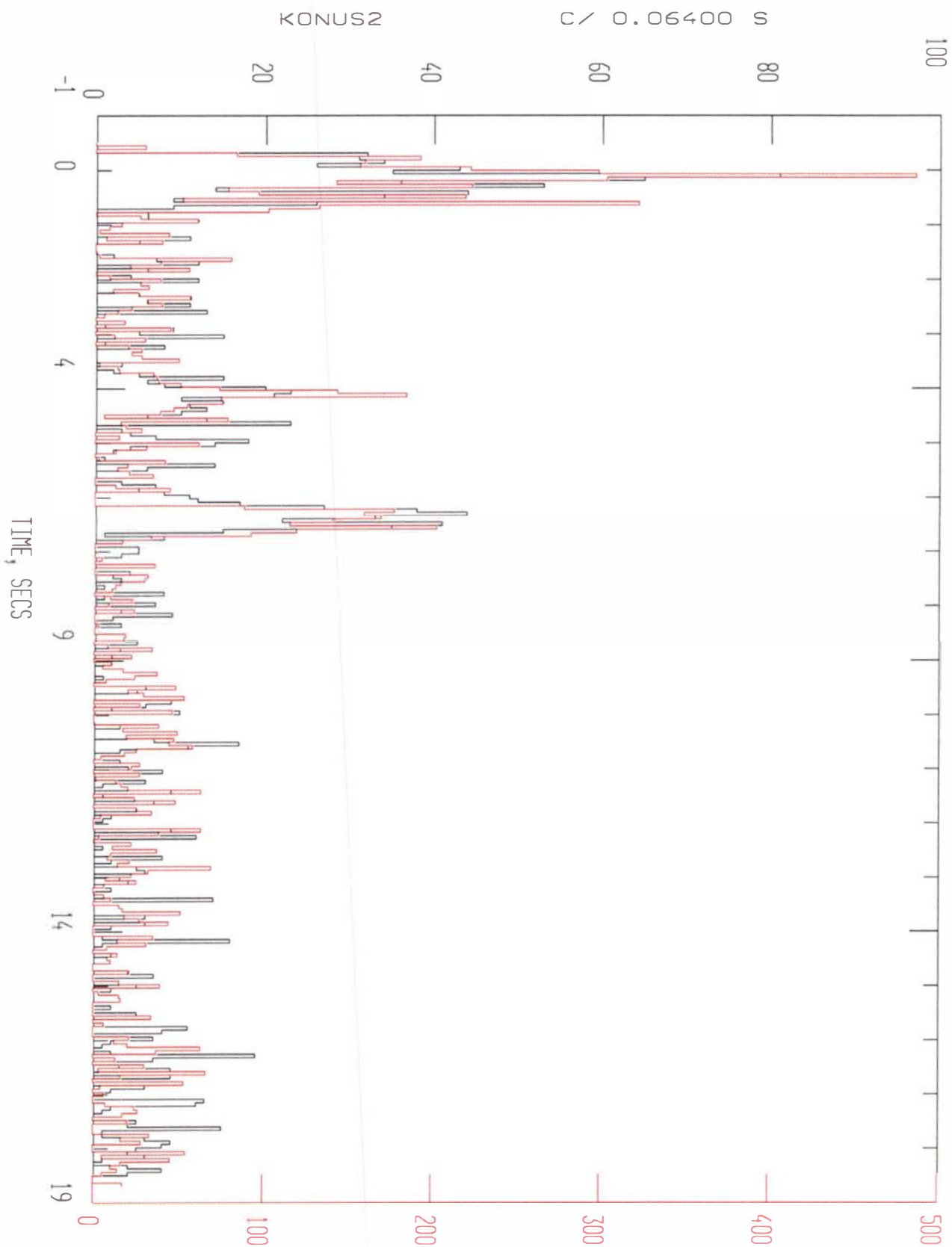
20/09/2011

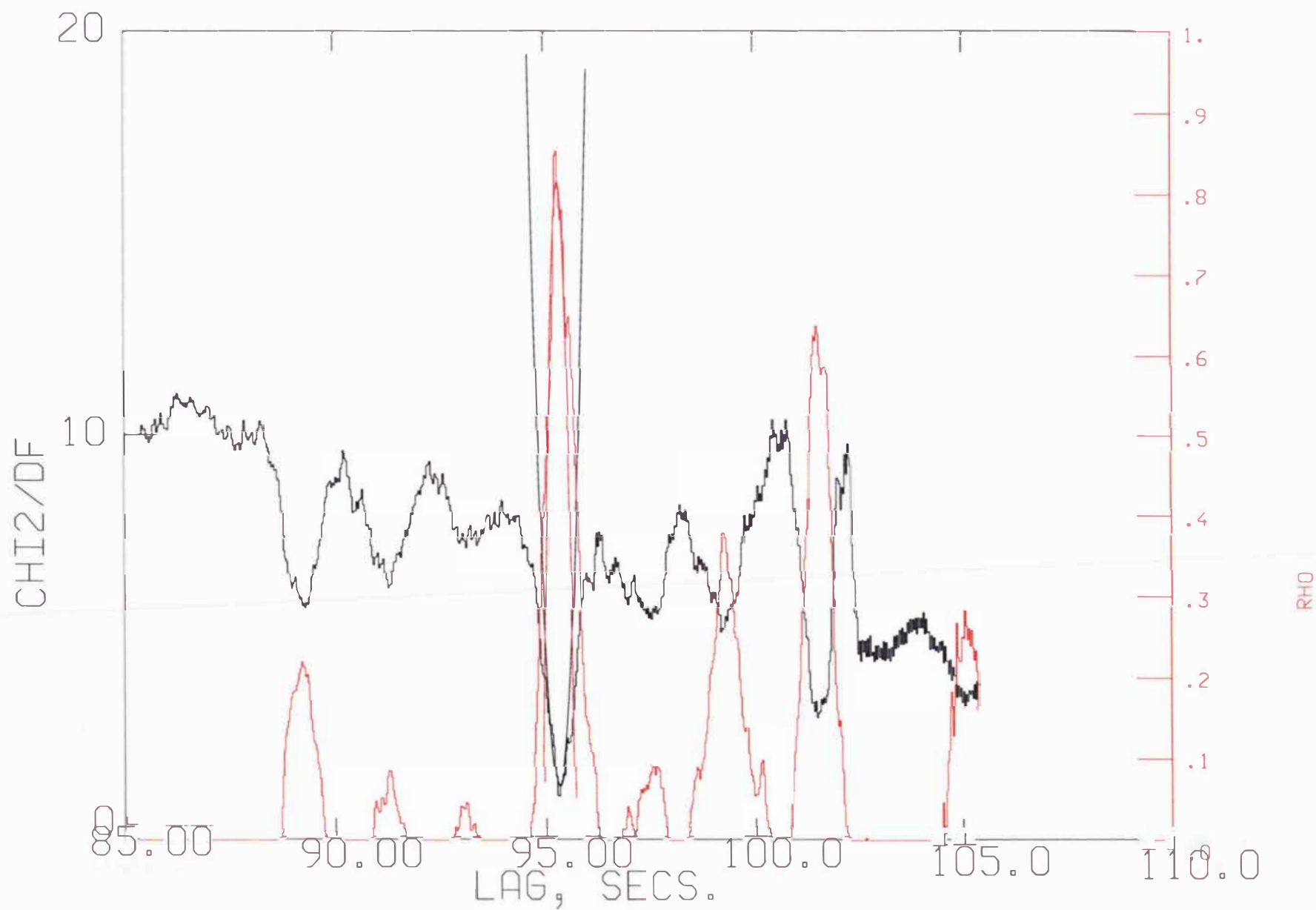


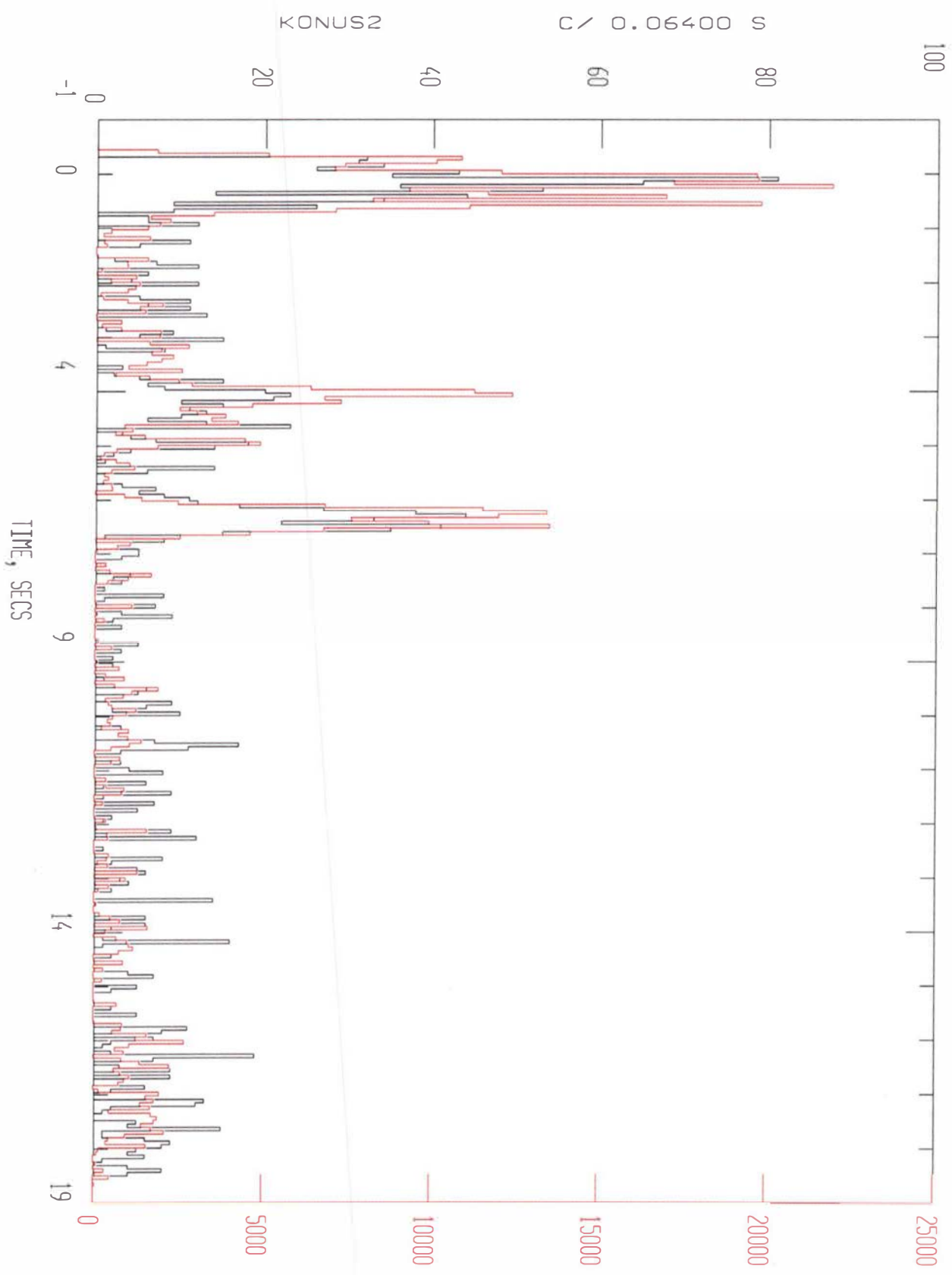








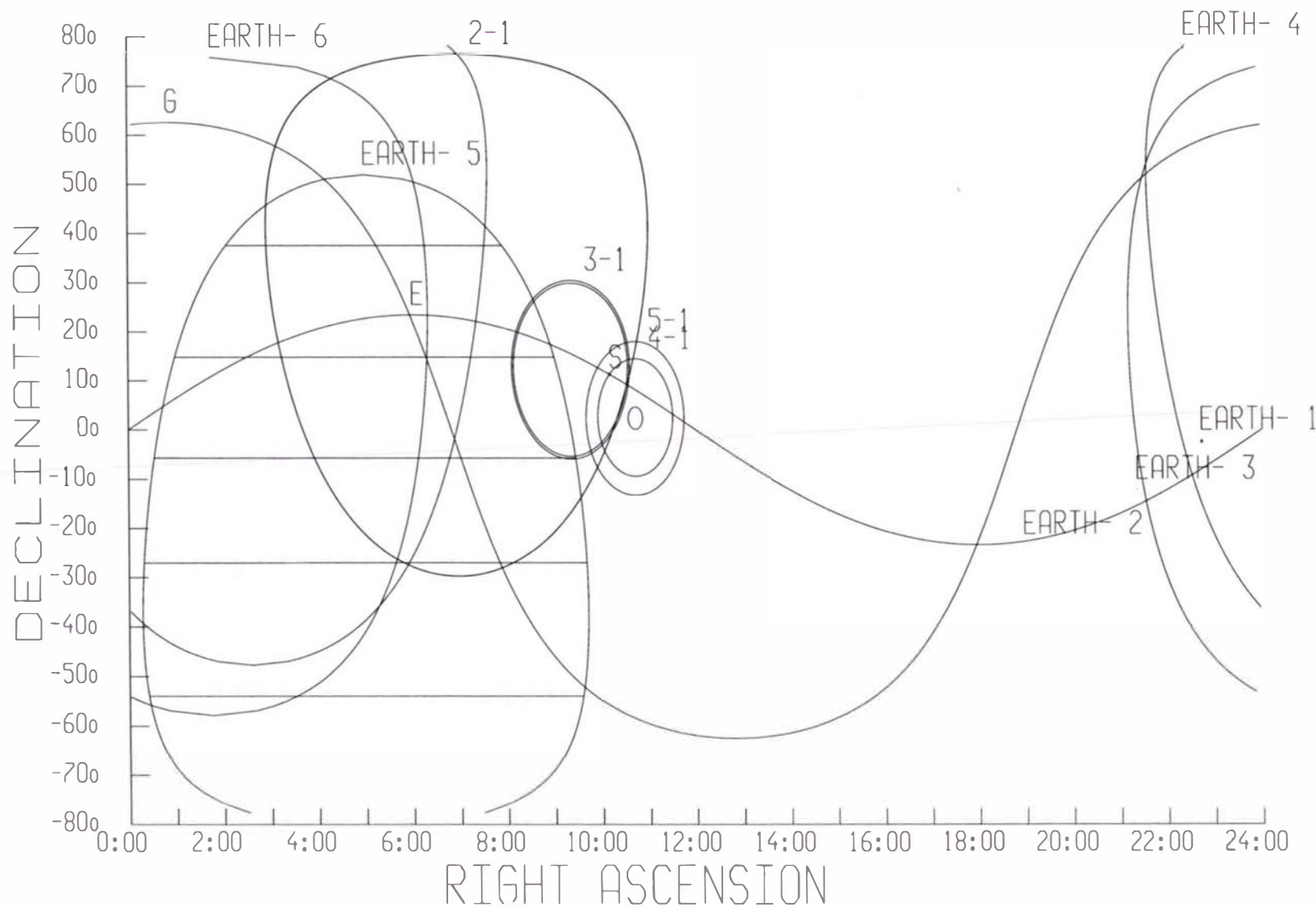




N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN
 1 KONUS2
 2 MO
 3 MESSENGER 4 SUZAKU
 5 SWIFT
 6

EVENT OF AUG 24, 2011 0:13

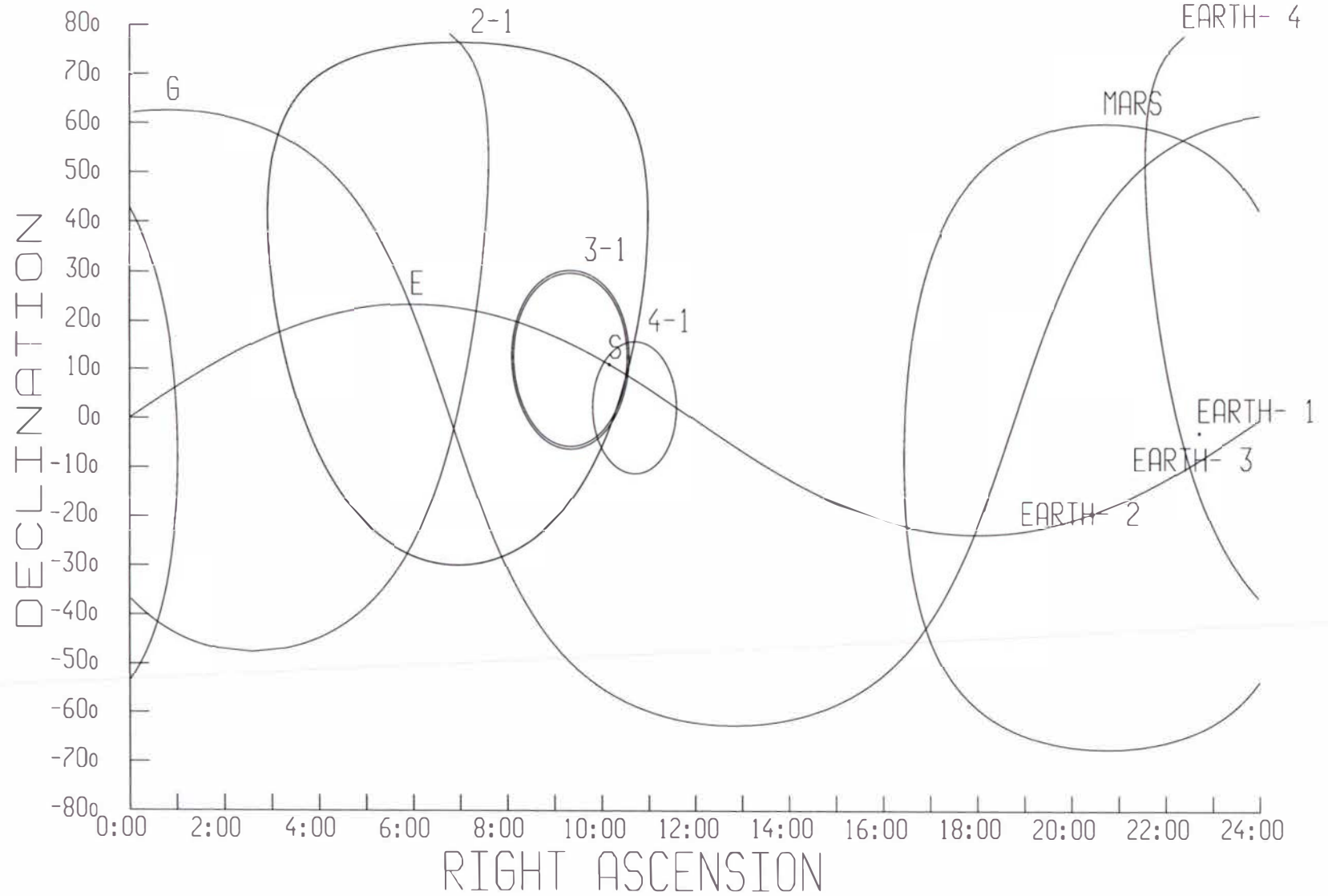
25/08/2011

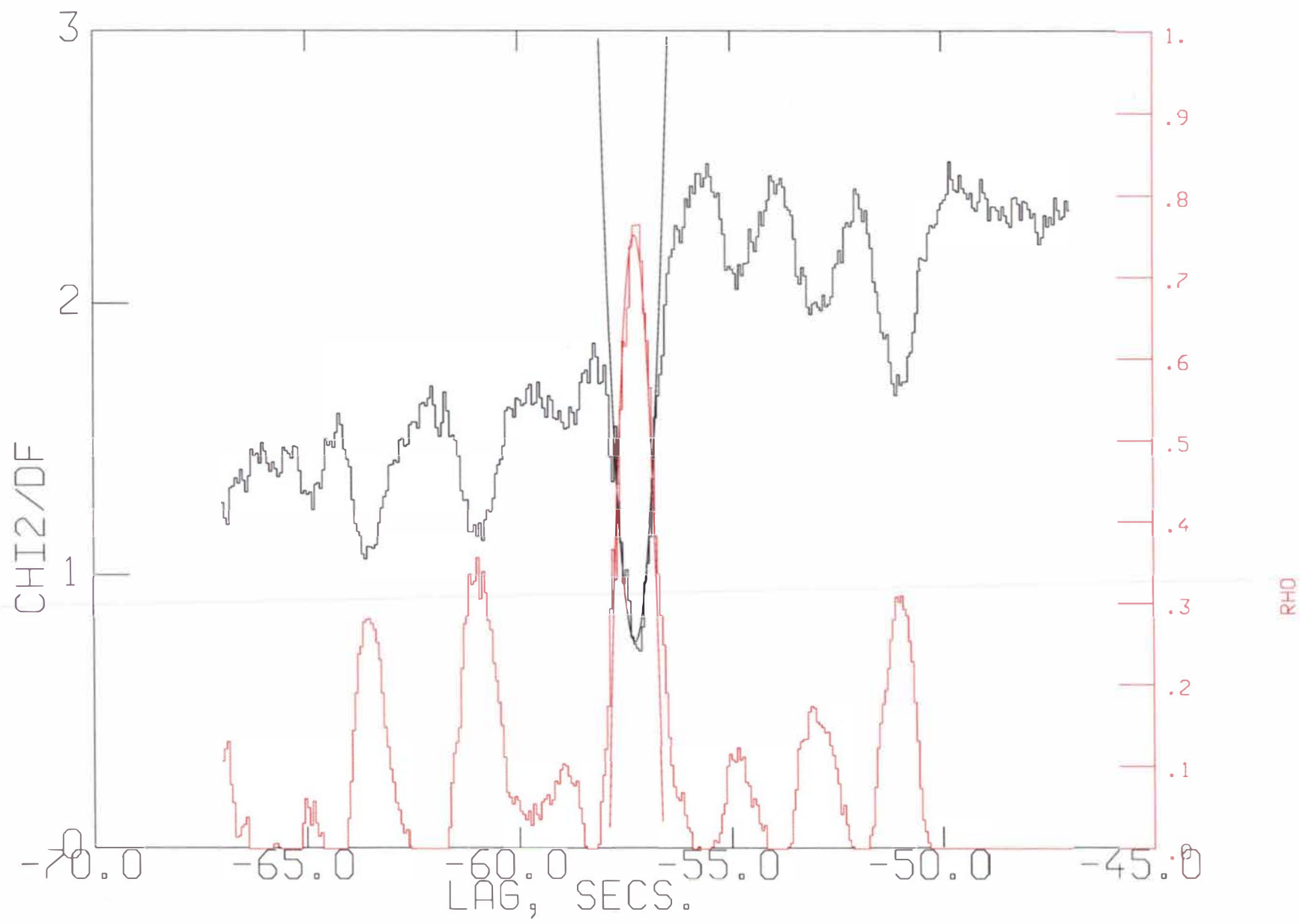


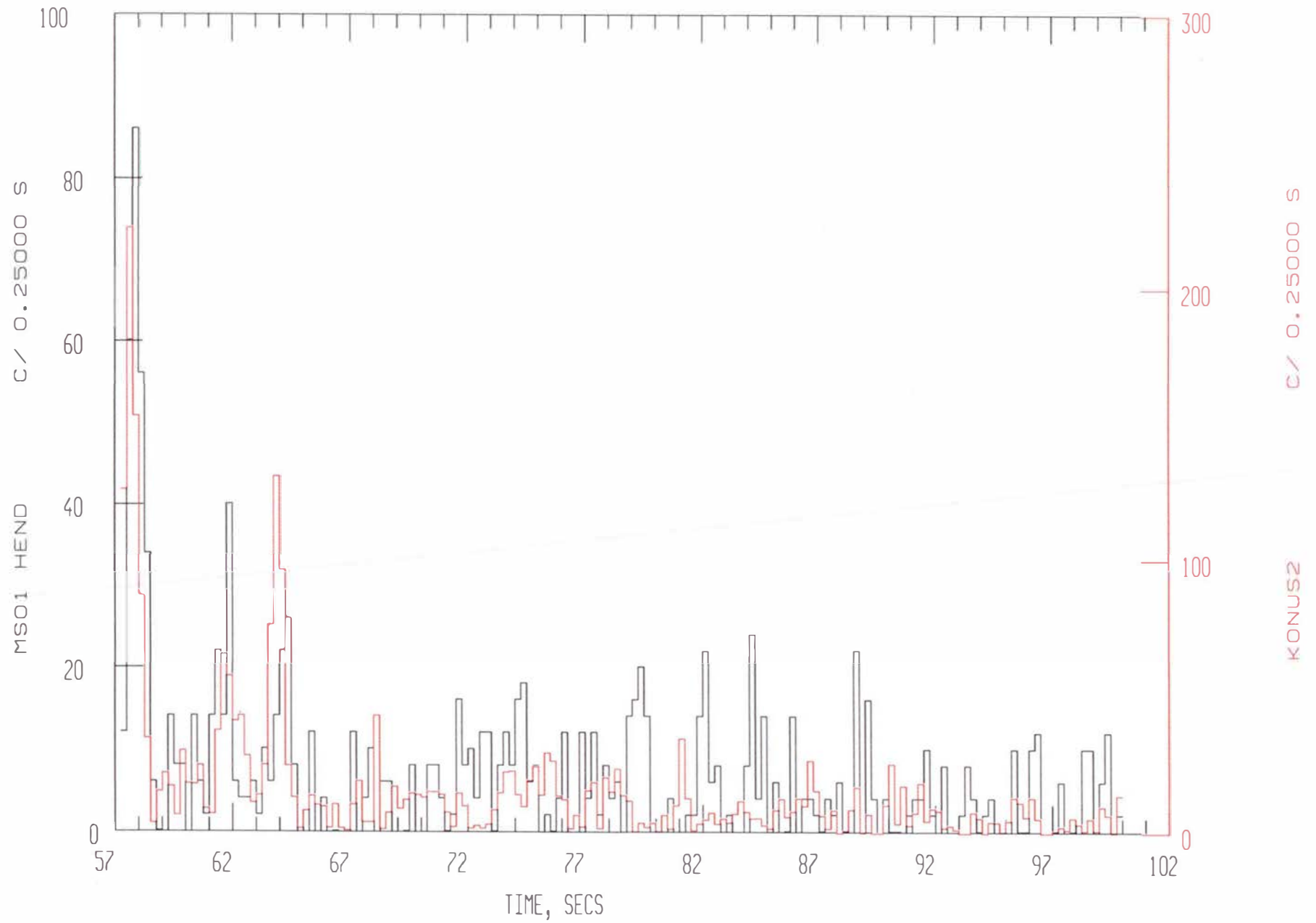
EVENT OF AUG 24, 2011 0:13

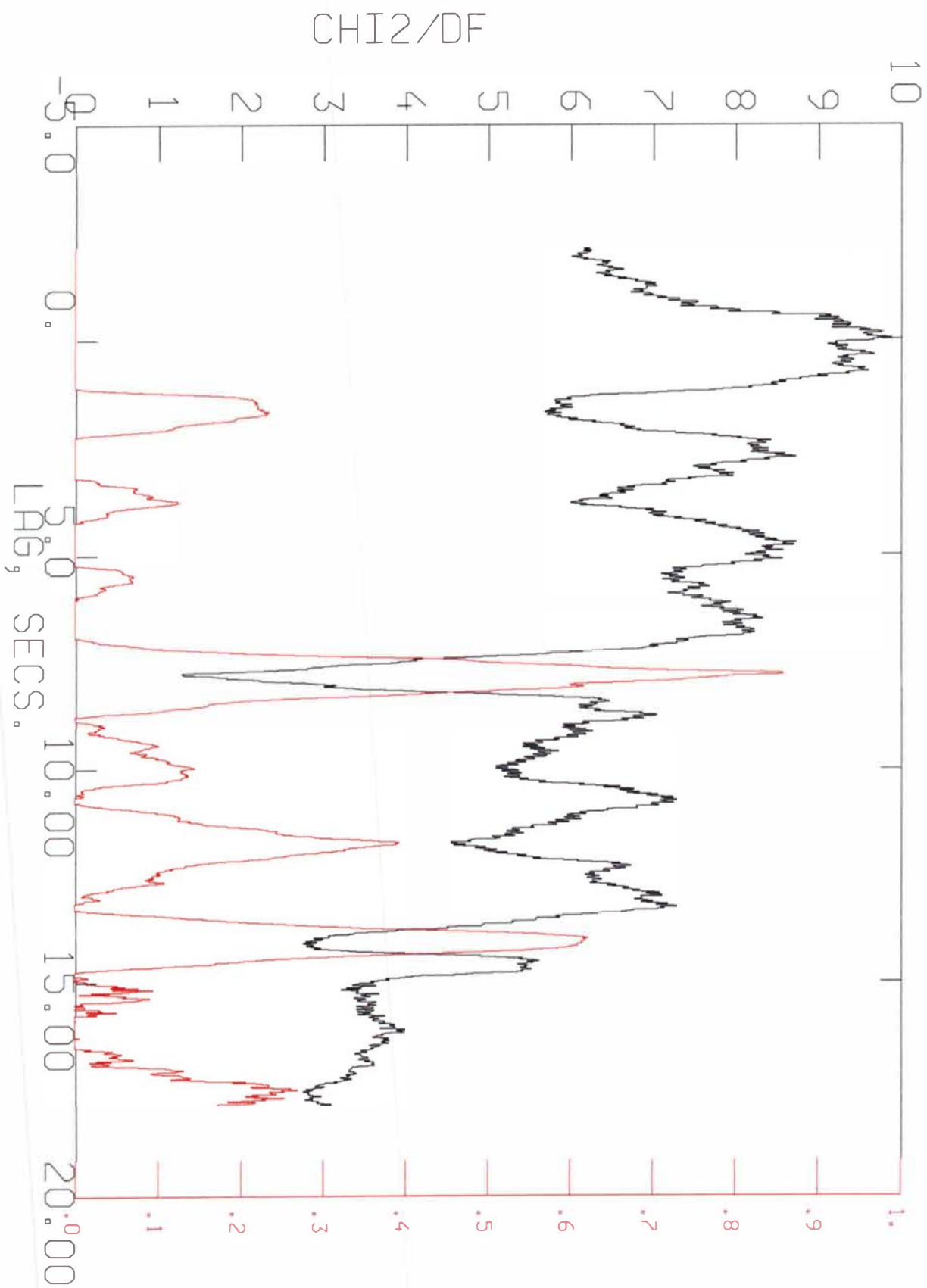
25/08/2011

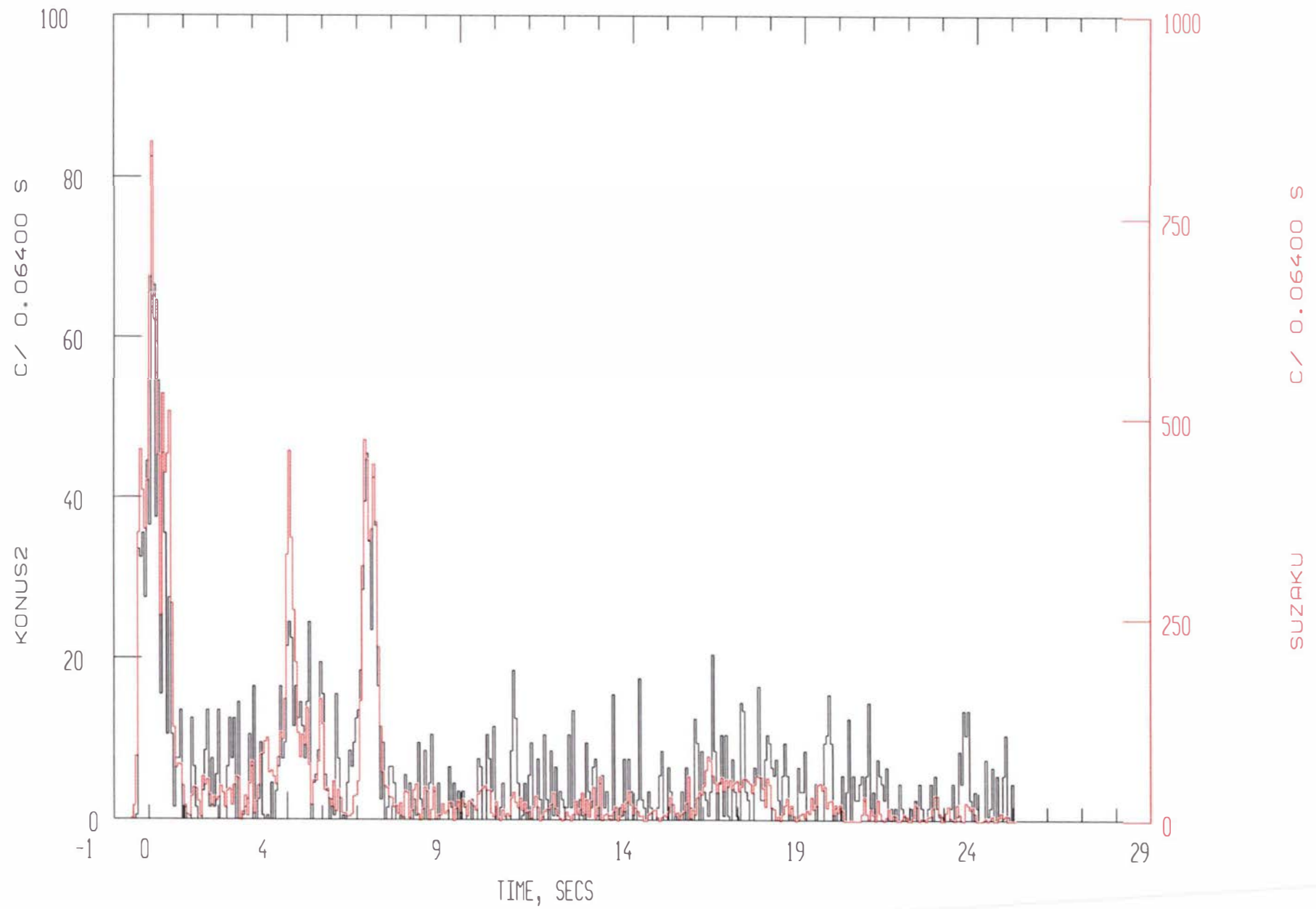
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 KONUS2 2 MO 3 MESSENGER 4 SUZAKU

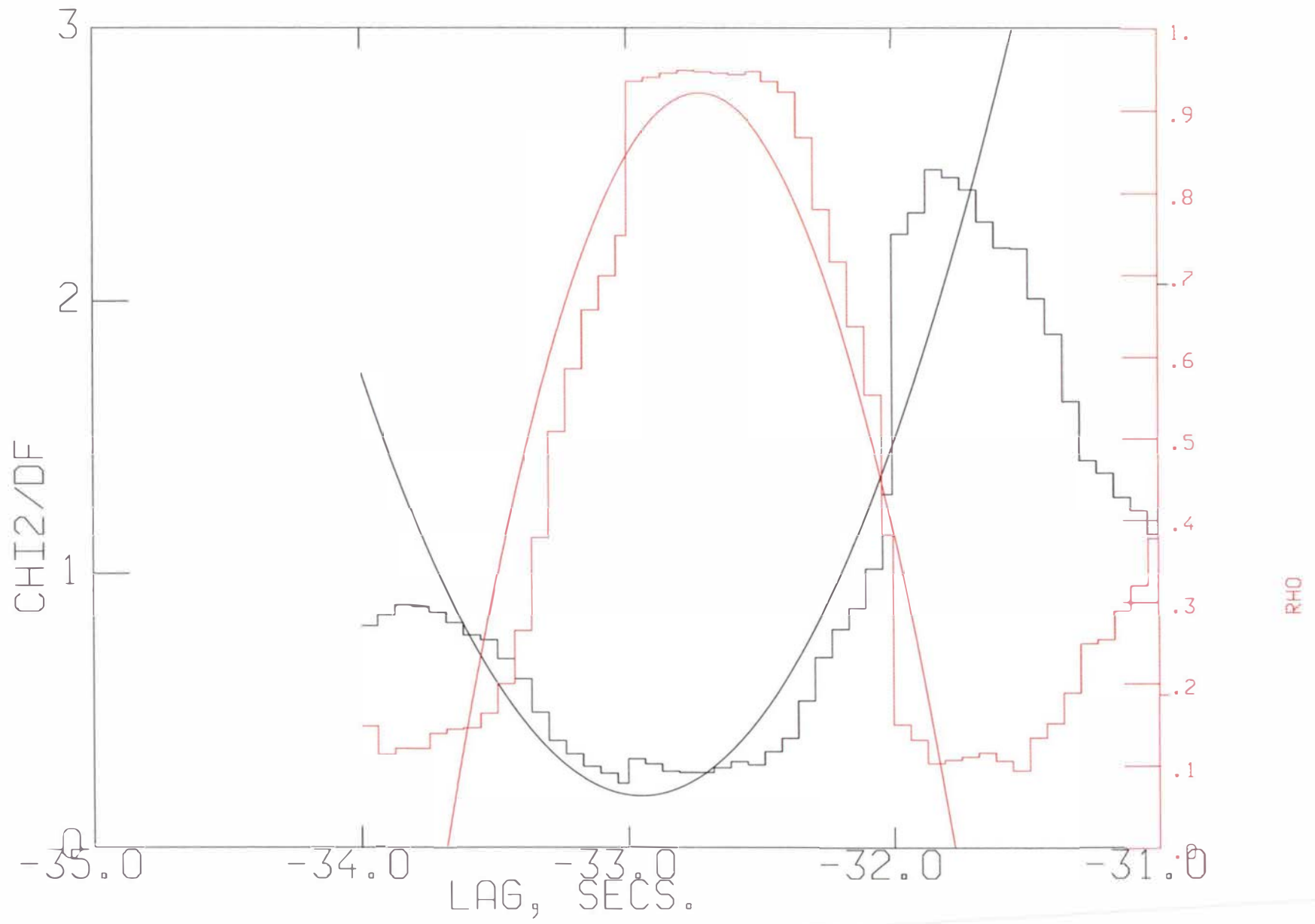


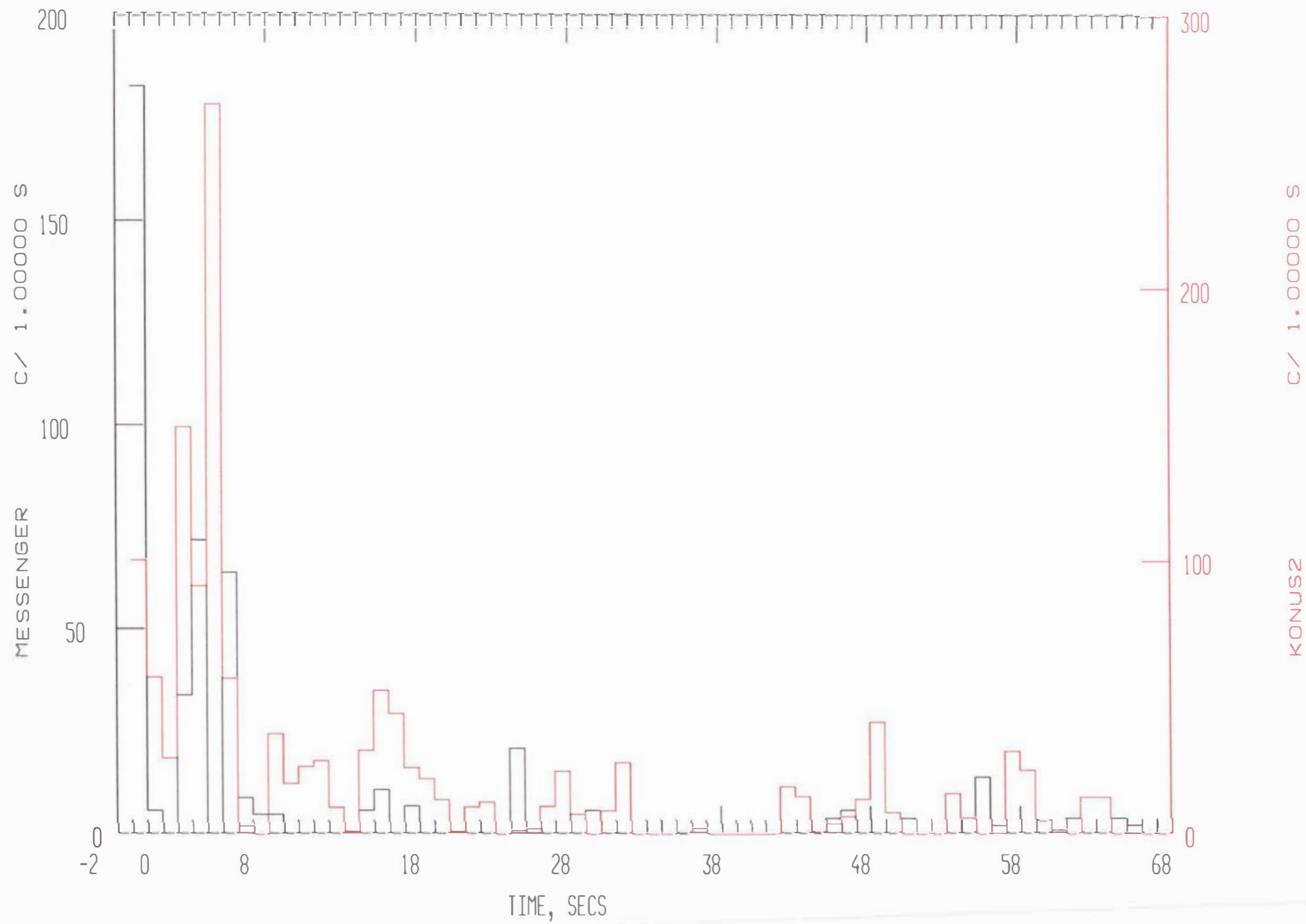












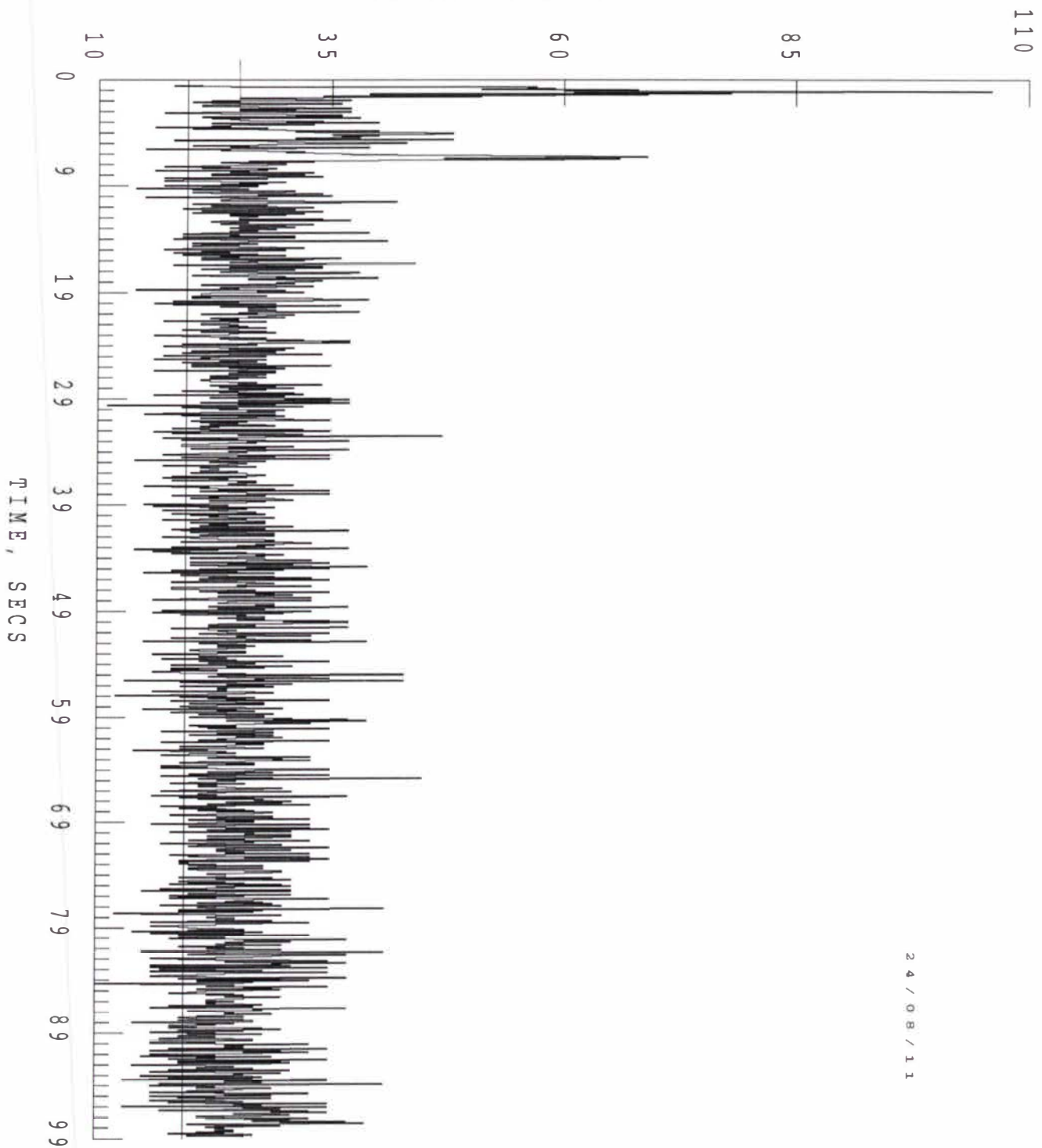
KONUS2

24/08/11

785.860

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110824 00785

TRIGGER TIME: 24/08/11 DOY 236 Julian 2455798.50909 UT = 00.218 00:13:05 (00785.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

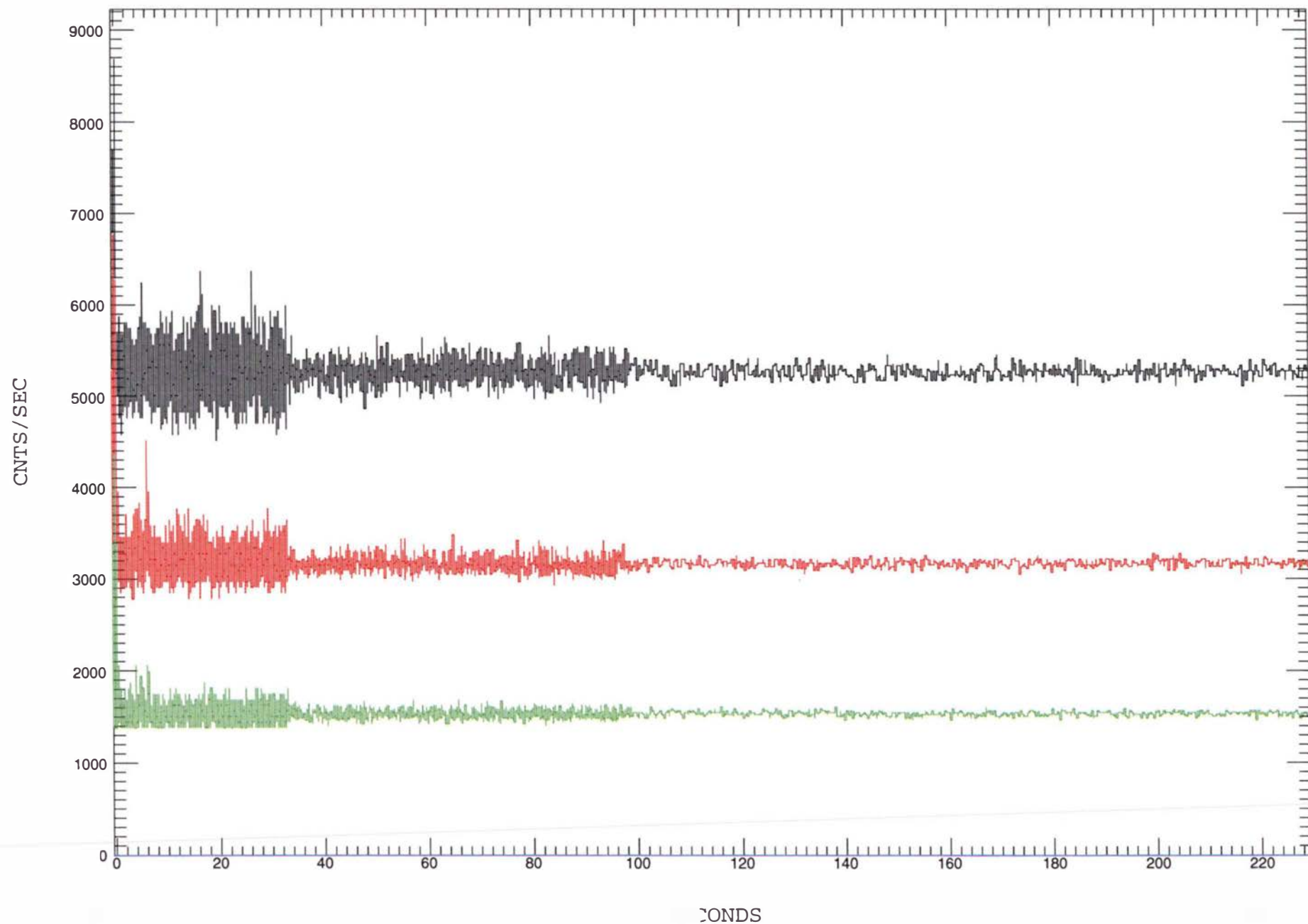
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



MS01 HEND

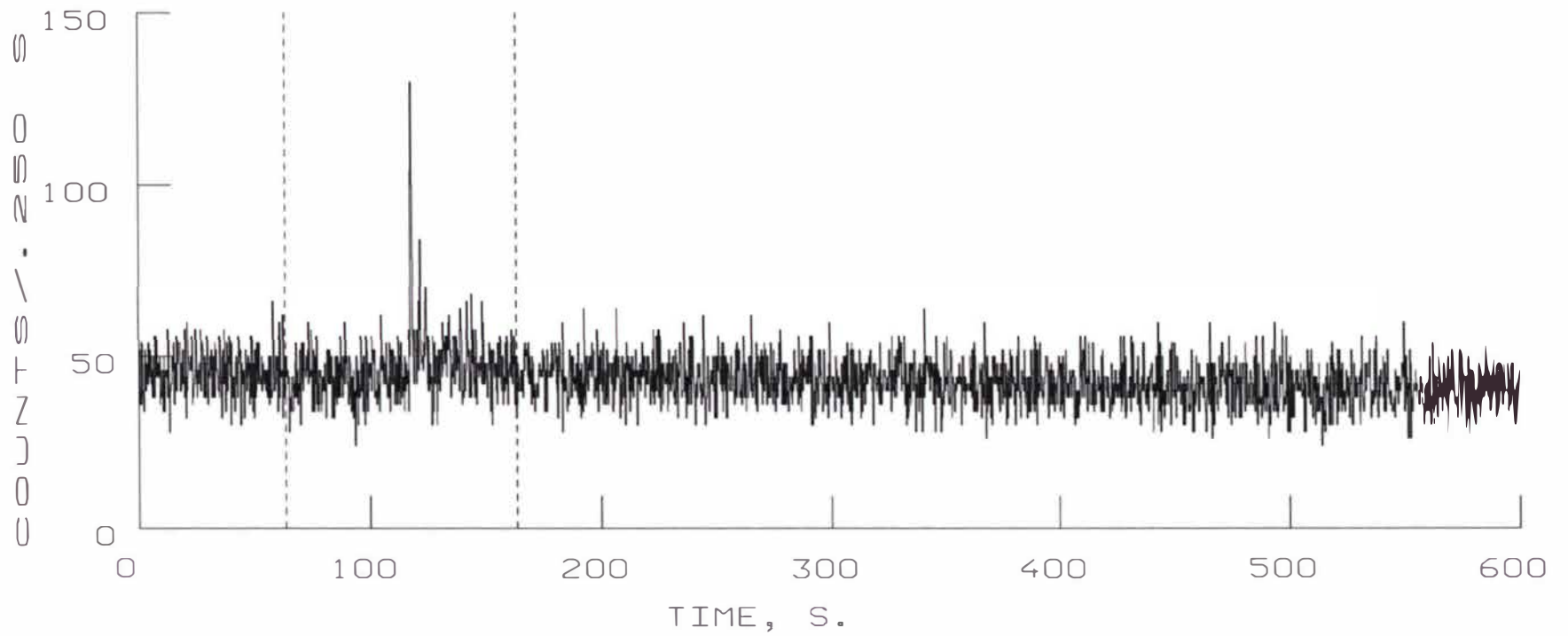
25/08/2011

24/08/2011

61.040 s

50-3000 keV

N=10 M=20
4.0 SIGMA FLUCTUATIONS



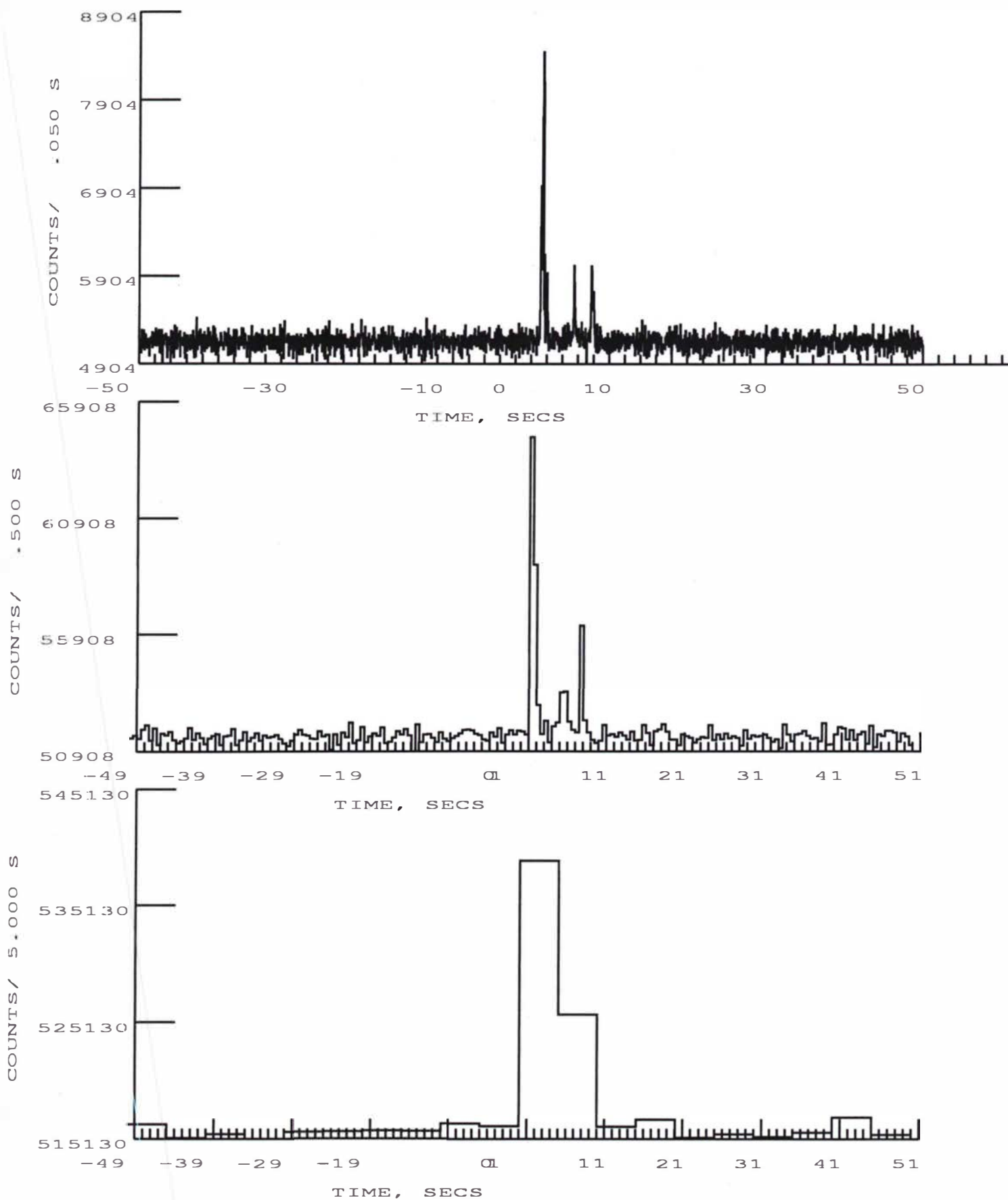
INTEGRAL

24/08/11

789.000

00:13:09.0

20/01/14



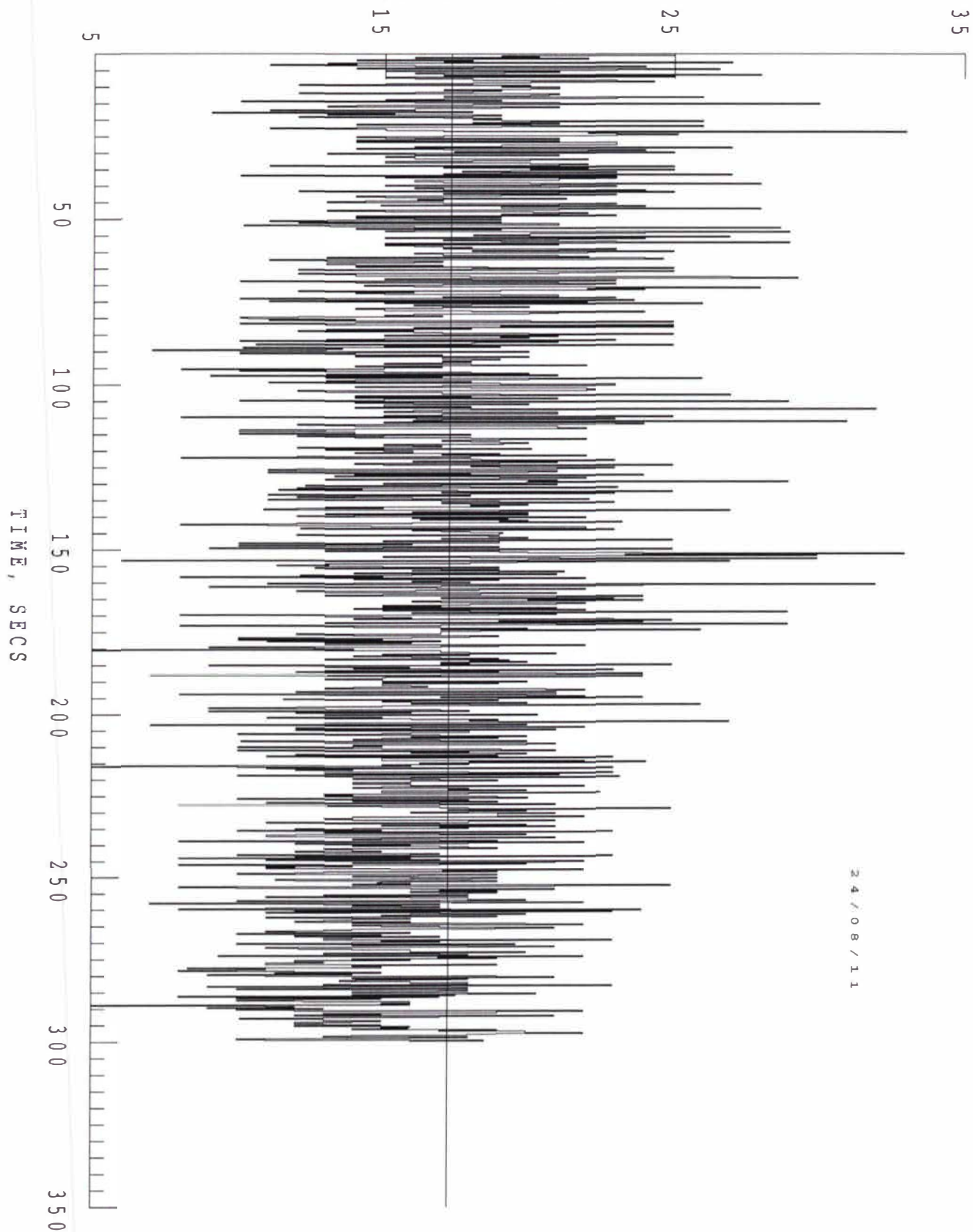
HESSI

24/08/11

639.000 (GLAST_20110824_00789)

25- 150 keV

COUNTS/0.250 S



Re: [Ipn] hard bright GRB 110824(A) (=Fermi/GBM trigger 335837591)

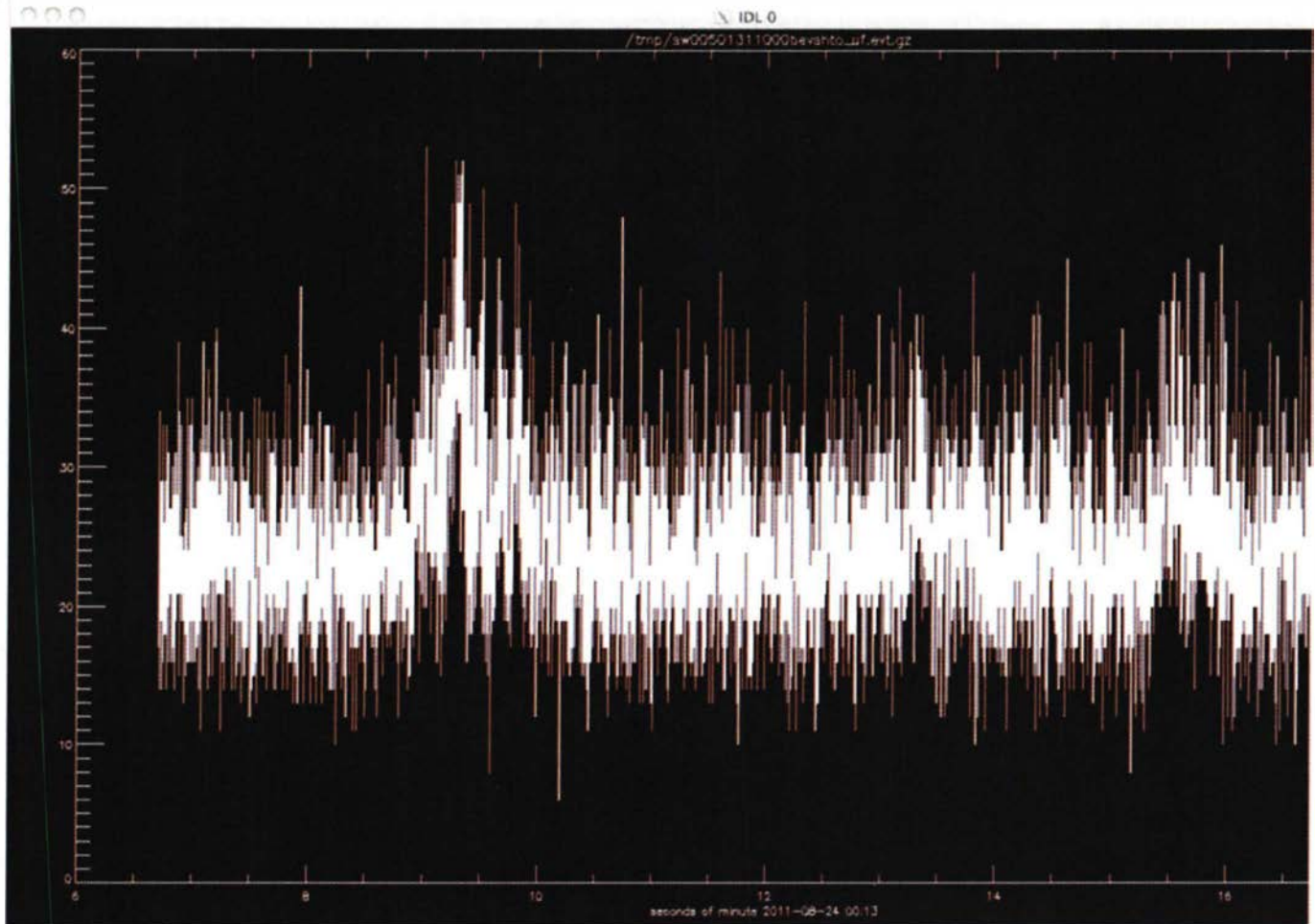
Subject: Re: [Ipn] hard bright GRB 110824(A) (=Fermi/GBM trigger 335837591)
From: David Palmer <palmer@lanl.gov>
Date: Thu, 25 Aug 2011 13:40:30 -0600
To: "Valentin Pal'shin" <val@mail.ioffe.ru>
CC: IPN <ipn@ssl.berkeley.edu>

The 64 ms light curve was sent out automatically, but here is the 2 ms event-by-event data.

```
% /usr/local/bin/swinfo -o 335837587.292
Time(MET + UTCF -> UT):      335837587.292 + -7.292 -> 2011-08-24T00:13:00.000
Swift Zenith(RA,dec):        254.33, 14.33
Swift Location(lon,lat,alt):  -80.73 E, 14.32 N, 586 km
Obs Sequence Number:         00031986053
Obs Target Name:              MAXI J1543-564
Obs Date and Times:           2011-08-24 00:08:54 - 00:21:52
Obs Pointing(ra,dec,roll):    235.770, -56.391, 273.32
```

```
IDL> ipn_from_ev,'#00501311',2e-3,-7.292,/plot
```

Screen shot 2011-08-25 at 1:38 48 PM.png



On Aug 24, 2011, at 1:42 PM, Valentin Pal'shin wrote:

Dear colleagues,

A hard bright GRB triggered Konus-Wind at 2011-08-24 T0(KW)=785.860 s UT (00:13:05.860) - see the attached figure; it corresponds to the Fermi/GBM trigger 335837591.
It was also detected by Swift-BAT (out FoV) and Suzaku-WAM.

The source of the burst is near the ecliptic plane.

Any other detections?

Best wishes,

Valentin

Re: [Ipn] hard bright GRB 110824(A) (=Fermi/GBM trigger 335837591)

--
Valentin Pal'shin

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

email: val@mail.ioffe.ru
Tel: (7)-812-2927177
Fax: (7)-812-2971963
<GRB110824_KW_64ms.png>
Ipn mailing list
ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

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

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

Screen shot 2011-08-25 at 1.38.48 PM.png	Content-Type: image/png Content-Encoding: base64
--	---

sw00501311000bevsho_uf.evt.gz.ipn

sw00501311000bevsho_uf.evt.gz.ipn	Content-Encoding: 7bit
-----------------------------------	------------------------

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: quoted-printable
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Subject: [Ipn] BAT lightcurve for trigger at 110824_0013

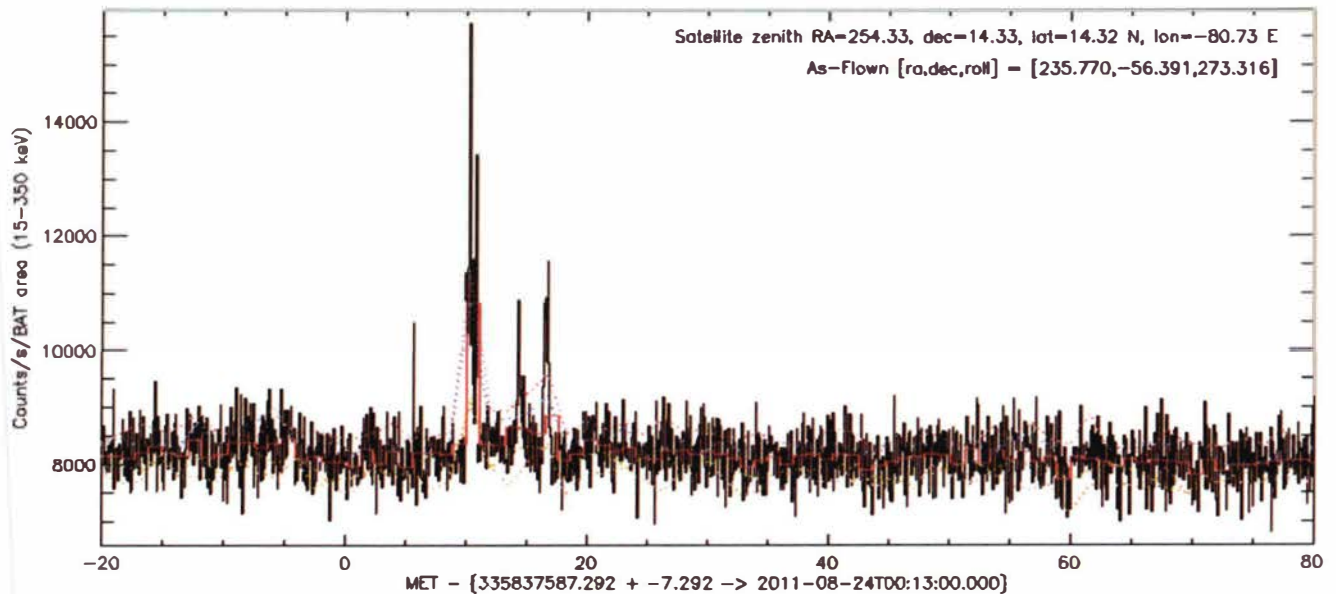
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 24 Aug 2011 11:57:57 -0600 (MDT)

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

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

/tmp/110824_0013.png



```
% /usr/local/bin/swinfo -o 335837587.292
Time(MET + UTC -> UT):      335837587.292 + -7.292 -> 2011-08-24T00:13:00.000
Swift Zenith(RA,dec):      254.33, 14.33
Swift Location(lon,lat,alt): -80.73 E, 14.32 N, 586 km
Obs Sequence Number:      00031986053
Obs Target Name:          MAXI J1543-564
Obs Date and Times:       2011-08-24 00:08:54 - 00:21:52
Obs Pointing(ra,dec,roll): 235.770, -56.391, 273.32
```

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>

/tmp/110824_0013_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110824_0013.png

/tmp/110824_0013.png

Content-Type: image/png
Content-Encoding: base64

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

08/08/11

MESSENGER

24/08/11

DOY 236

463.547

00:07:43.547

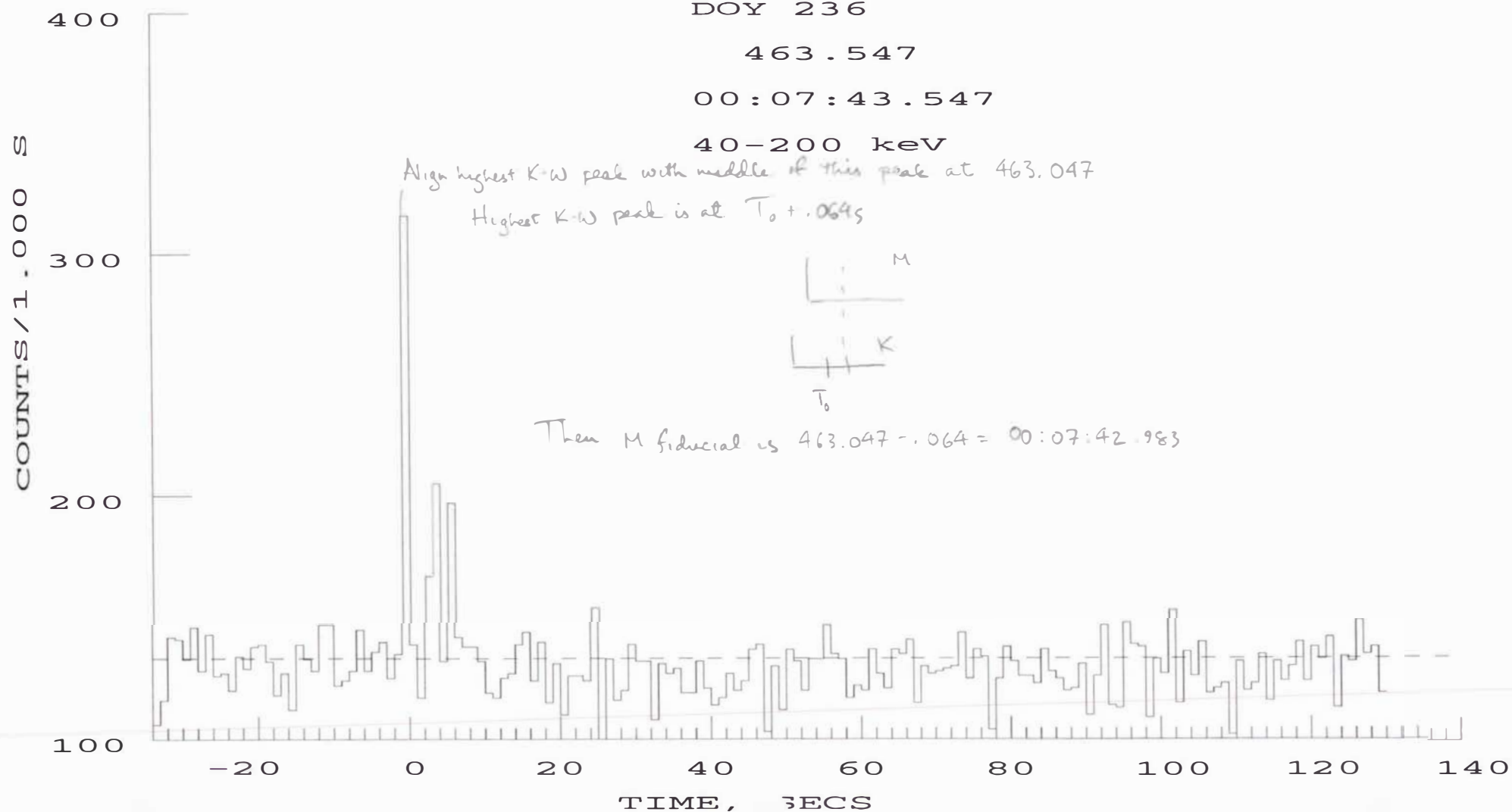
40-200 keV

Align highest K α peak with middle of this peak at 463.047

Highest K α peak is at $T_0 + .064s$



Then M fiducial is $463.047 - .064 = 00:07:42.983$



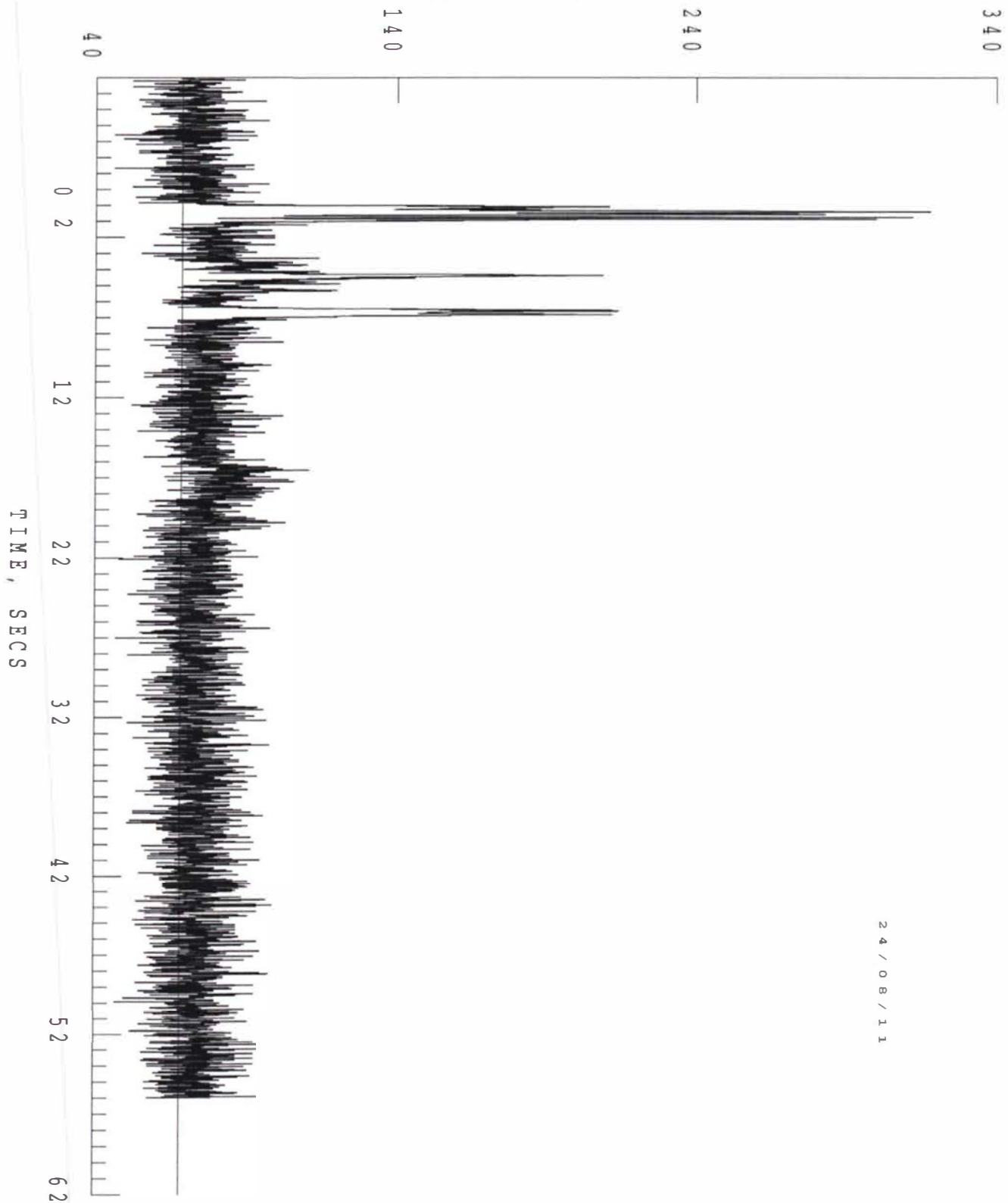
SUZAKU

24/08/11

789.922

50 - 240 keV

COUNTS/0.016 S



Subject: [Ipn] BAT lightcurve for trigger at 110824_0013

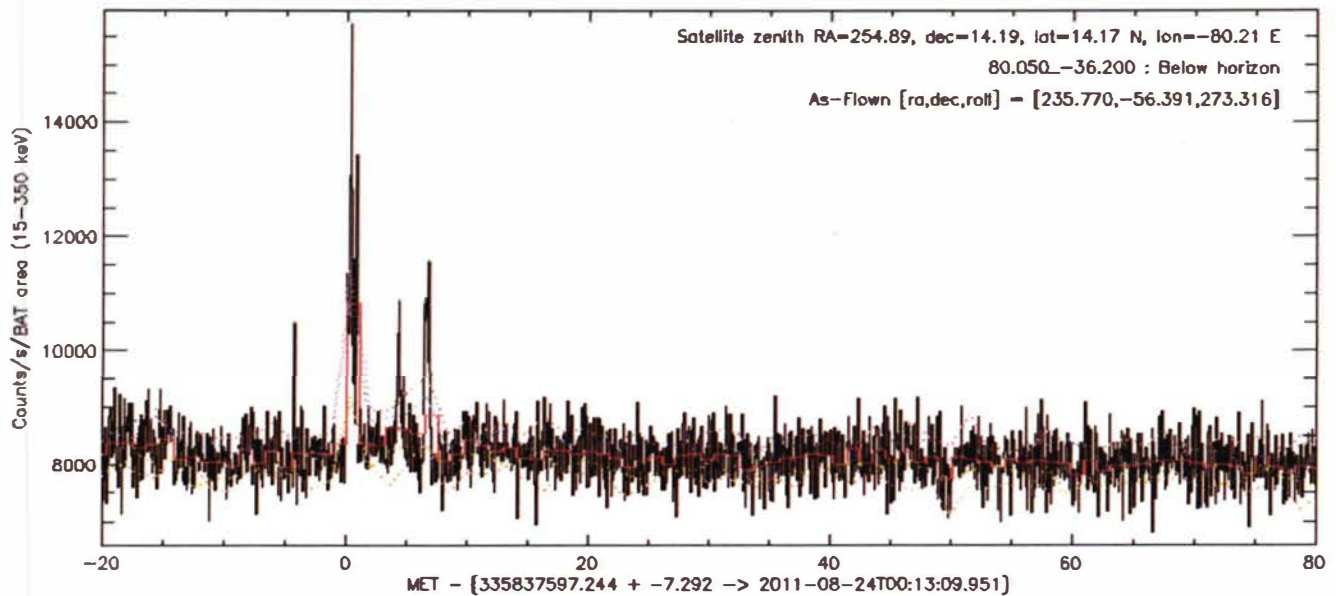
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 23 Aug 2011 23:47:31 -0600 (MDT)

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

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

/tmp/110824_0013.png



```
% /usr/local/bin/swinfo -o 335837597.243 -s 156.110_5.440
Time(MET + UTCF -> UT): 335837597.244 + -7.292 -> 2011-08-24T00:13:09.951
Swift Zenith(RA,dec): 254.89, 14.19
Swift Location(lon,lat,alt): -80.21 E, 14.17 N, 585 km
Obs Sequence Number: 00031986053
Obs Target Name: MAXI J1543-564
Obs Date and Times: 2011-08-24 00:08:54 - 00:21:52
Obs Pointing(ra,dec,roll): 235.770, -56.391, 273.32
156.110_5.440_imageloc (boresight_dist, angle): (89, -82)
156.110_5.440_exposure (cm^2 cos adjusted): 0
156.110_5.440_altitude: 17 (depressed but unattenuated)
```

```
% /usr/local/bin/swinfo -o 335837597.243 -s 80.050_-36.200
Time(MET + UTCF -> UT): 335837597.244 + -7.292 -> 2011-08-24T00:13:09.951
Swift Zenith(RA,dec): 254.89, 14.19
Swift Location(lon,lat,alt): -80.21 E, 14.17 N, 585 km
Obs Sequence Number: 00031986053
Obs Target Name: MAXI J1543-564
Obs Date and Times: 2011-08-24 00:08:54 - 00:21:52
Obs Pointing(ra,dec,roll): 235.770, -56.391, 273.32
80.050_-36.200_imageloc (boresight_dist, angle): (85, -164)
80.050_-36.200_exposure (cm^2 cos adjusted): 0
80.050_-36.200_altitude: -44 (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>

/tmp/110824_0013_bat64ms_ipn	Content-Type: application/octet-stream
------------------------------	--

Content-Encoding: base64

/tmp/110824_0013.png

/tmp/110824_0013.png

Content-Type: image/png
Content-Encoding: base64

Part 1.4

Part 1.4

Content-Type: text/plain
Content-Encoding: 7bit

Part 1.5

Part 1.5

Content-Type: text/plain
Content-Encoding: 7bit

From ipn-bounces@ssl.berkeley.edu Thu Aug 25 00:51:07 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
From: Martino Marisaldi <marisaldi@iasfbo.inaf.it>
Date: Thu, 25 Aug 2011 09:51:53 +0200
To: "Valentin Pal'shin" <val@mail.ioffe.ru>
Cc: IPN <ipn@ssl.berkeley.edu>
Subject: Re: [Ipn] hard bright GRB 110824(A) (=Fermi/GBM trigger 335837591)
X-Ucb-Scan-Signature: cfc22195f0f82d9e05c94789cb95848a74ad9bb8
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='HTML_MESSAGE 0.001,
MIME_HTML_MOSTLY 0.001, MIME_QP_LONG_LINE 0.001, RP_MATCHES_RCVD -0.532'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Content-Type: multipart/alternative; boundary="Apple-Mail-3-944064184"
Content-Length: 101911
X-Lines: 1864

Dear Valentin,

AGILE MCAL triggered on this GRB, see the attached light curve.

Although I'm not sure this can improve the annulus you already derived, I include

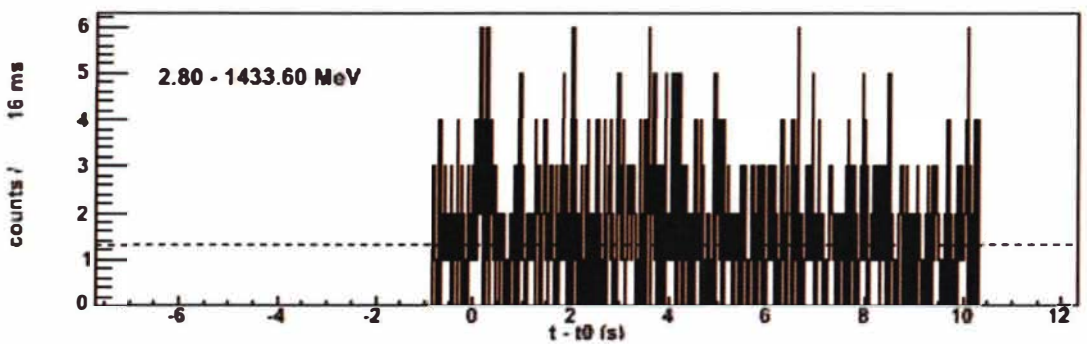
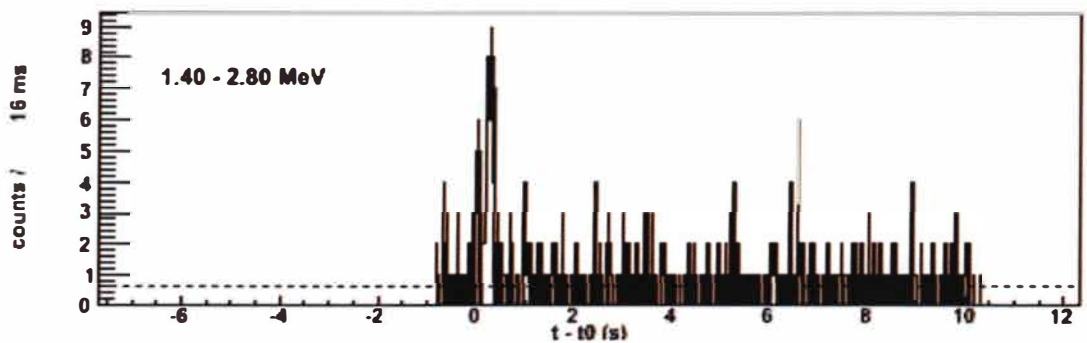
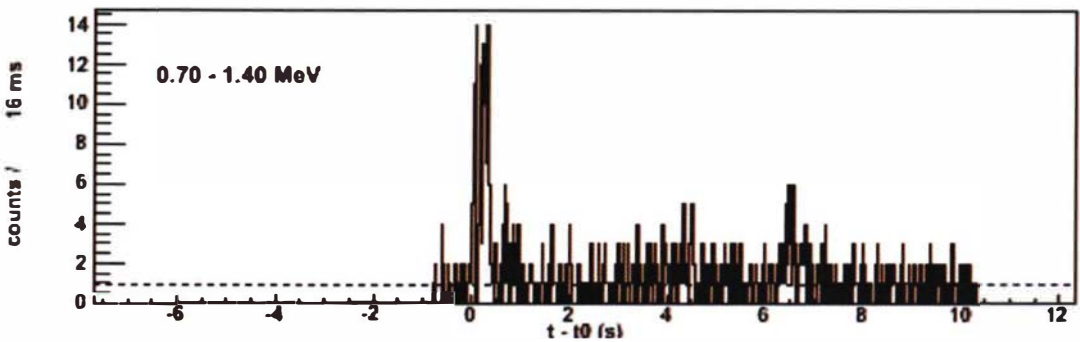
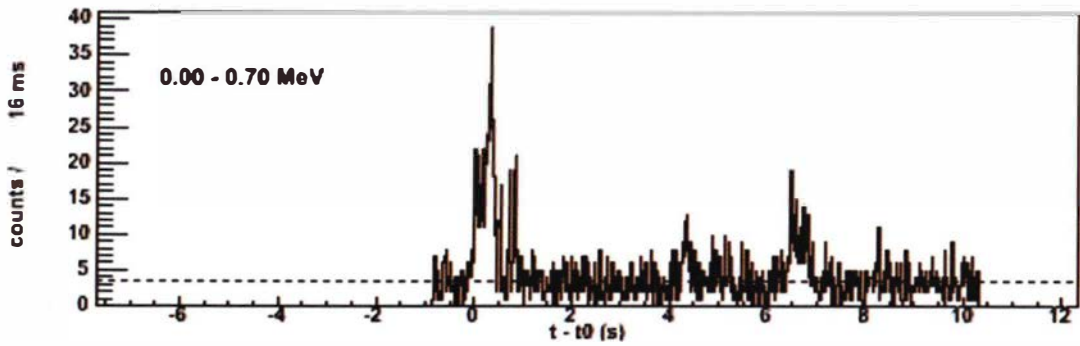
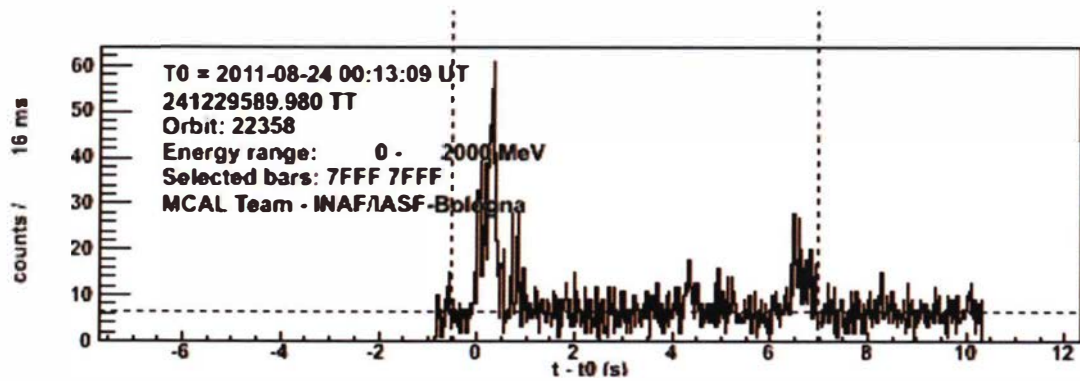
Best wishes,

Martino

On Aug 24, 2011, at 9:42 PM, Valentin Pal'shin wrote:

> Dear colleagues,
>
> A hard bright GRB triggered Konus-Wind at 2011-08-24 T0(KW)=785.860 s UT (00:1
> It was also detected by Swift-BAT (out FoV) and Suzaku-WAM.
>
> The source of the burst is near the ecliptic plane.
>
> Any other detections?
>
> Best wishes,
>
> Valentin
>
> --
> Valentin Pal'shin
>
> Ioffe Physical Technical Institute
> Laboratory for Experimental Astrophysics
> 26 Polytekhnicheskaya, St Petersburg 194021,
> Russian Federation
>
> email: val@mail.ioffe.ru
> Tel: (7)-812-2927177
> Fax: (7)-812-2971963
> <GRB110824_KW_64ms.png>

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



GLAST

24/08/11

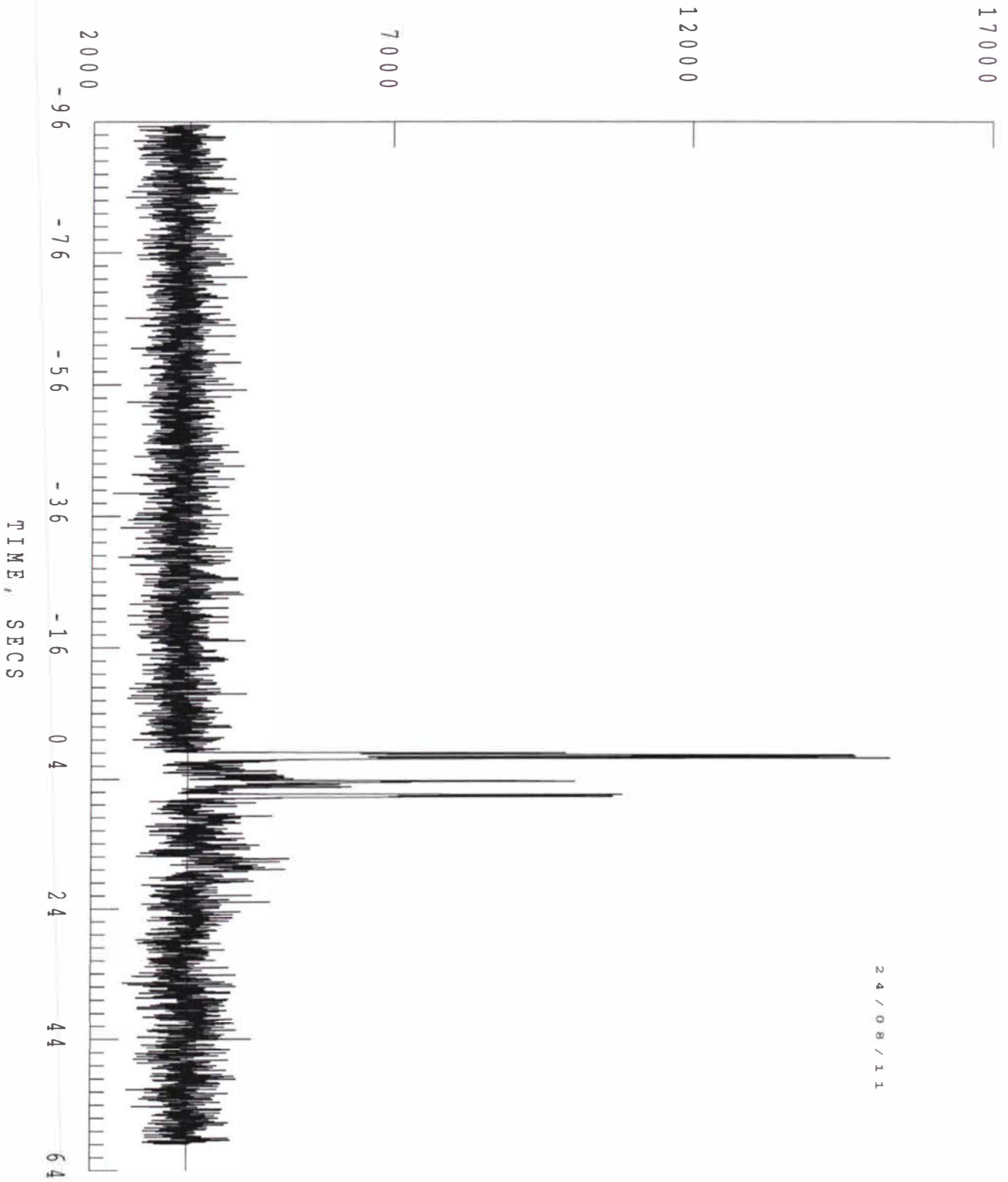
789.941

00:13:09

26 - 293 keV

152.0, 1.3, 1.7

COUNTS/0.032 S



08/08/11

MESSENGER

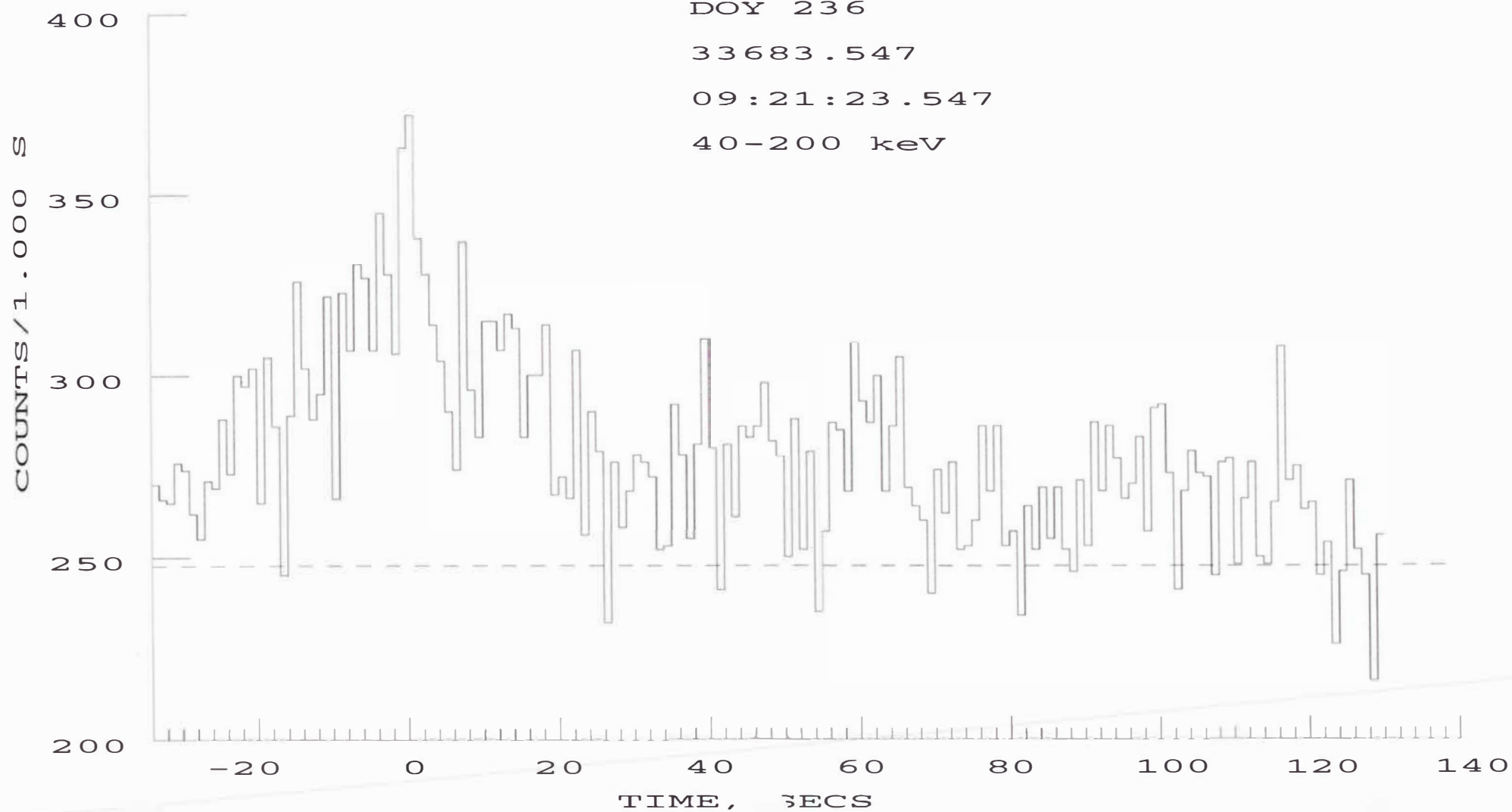
24/08/11

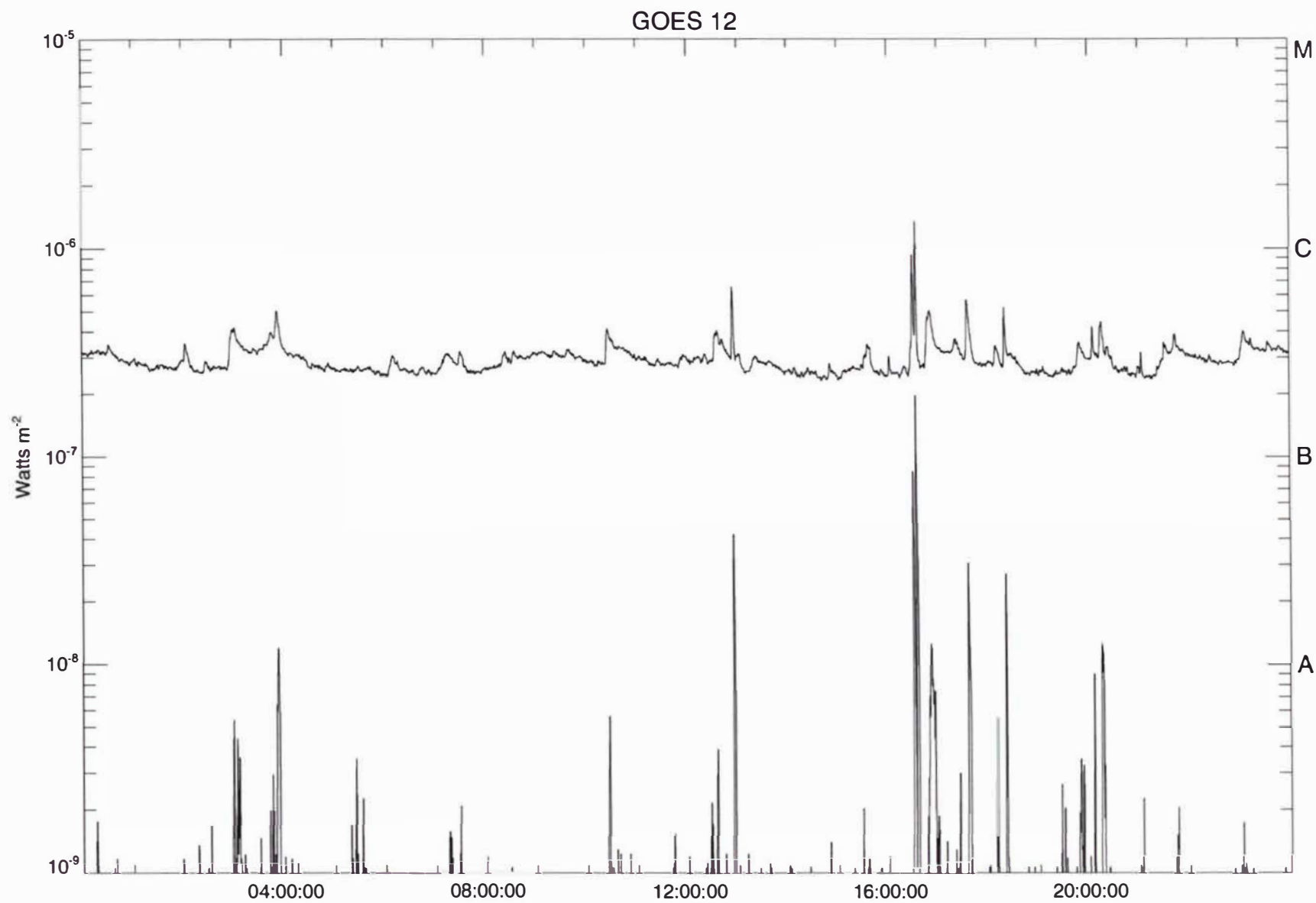
DOY 236

33683.547

09:21:23.547

40-200 keV





Data Start: 11/08/24, 0000:09

Plot created: 11/08/27, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: Jul 20 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?

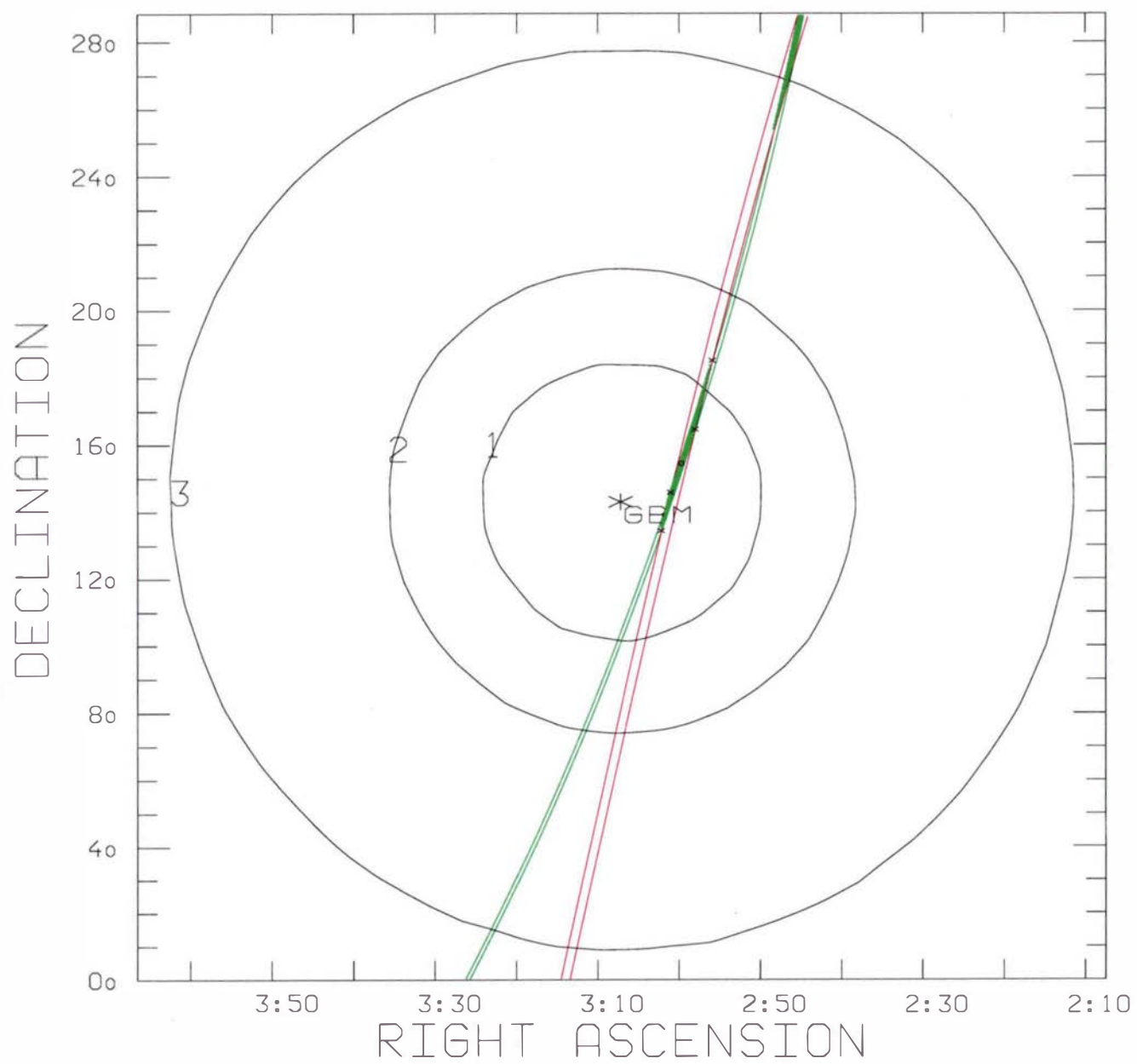
7. For INTEGRAL events

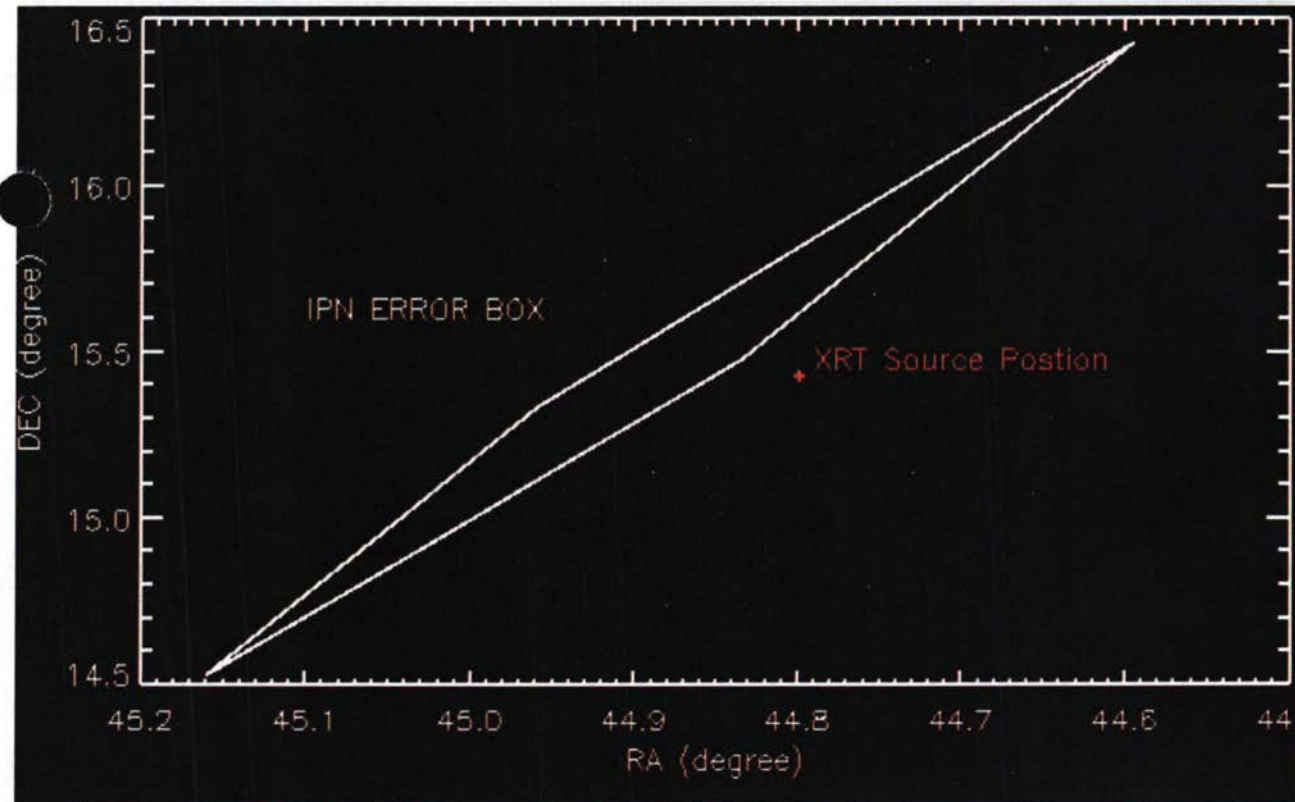
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

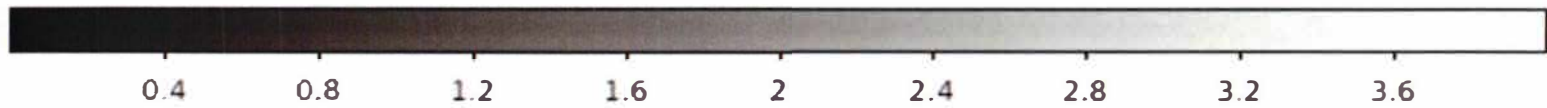
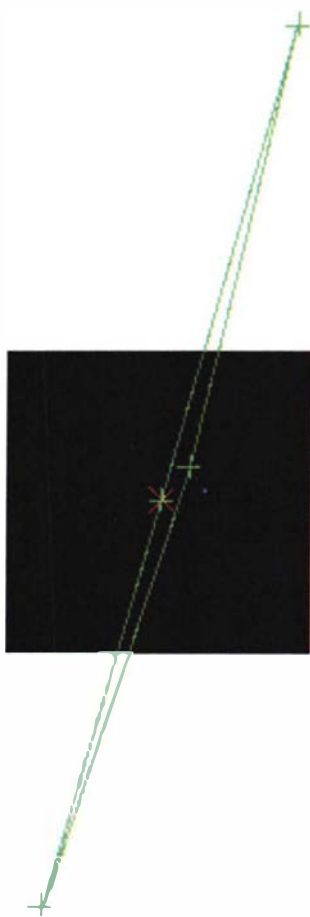
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

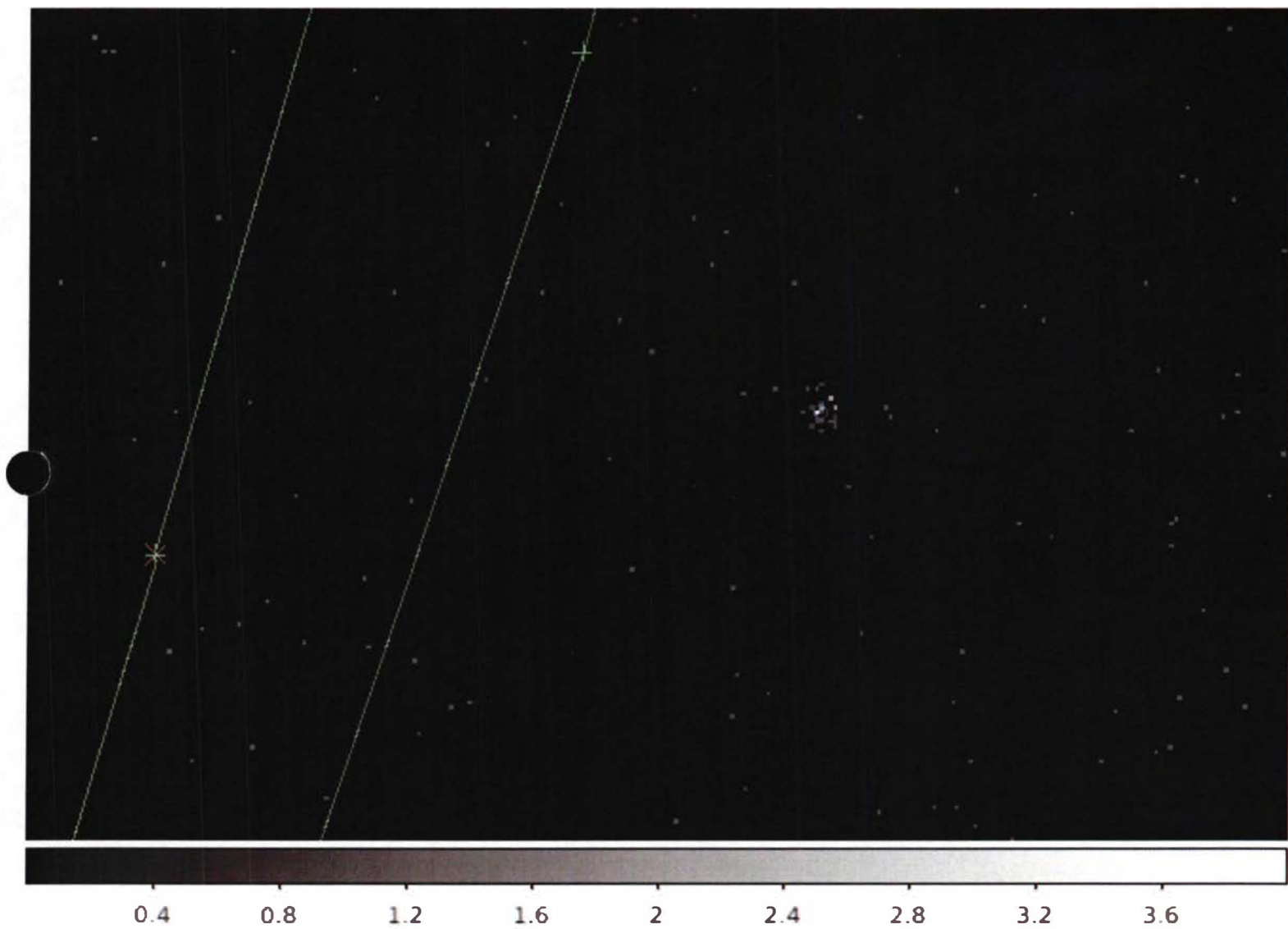
GRB110825 ~08810 S

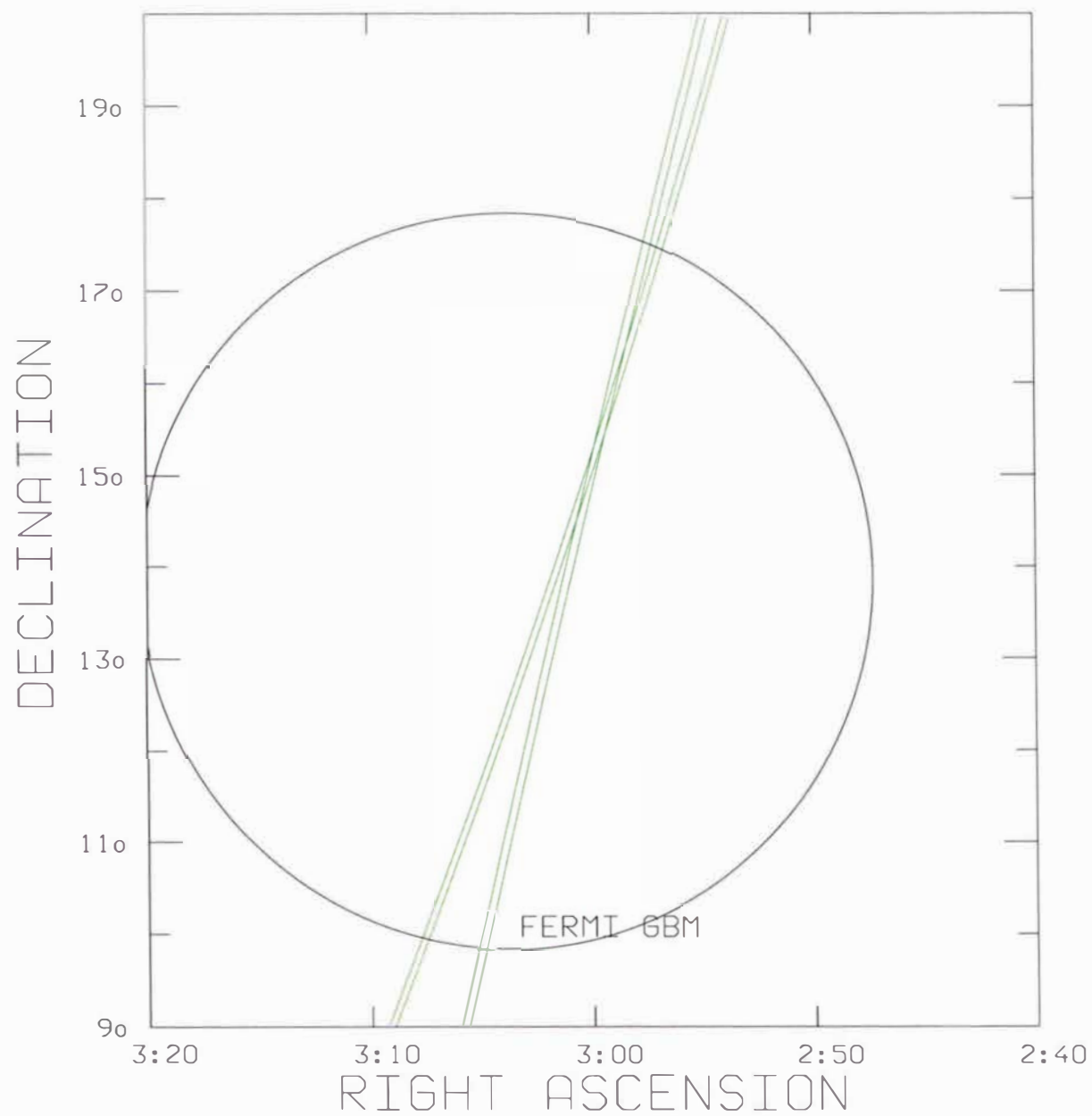
20/07/2016







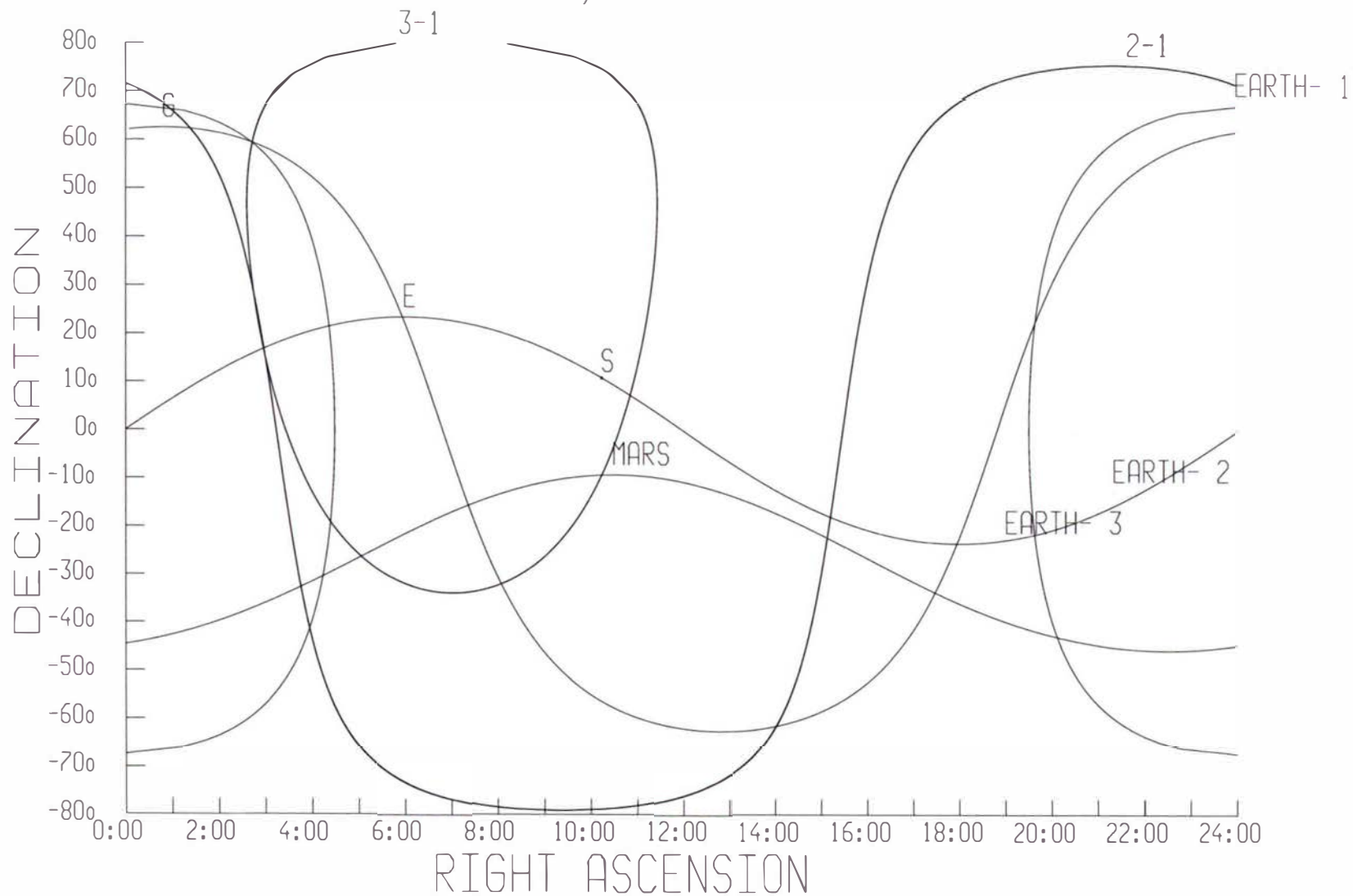


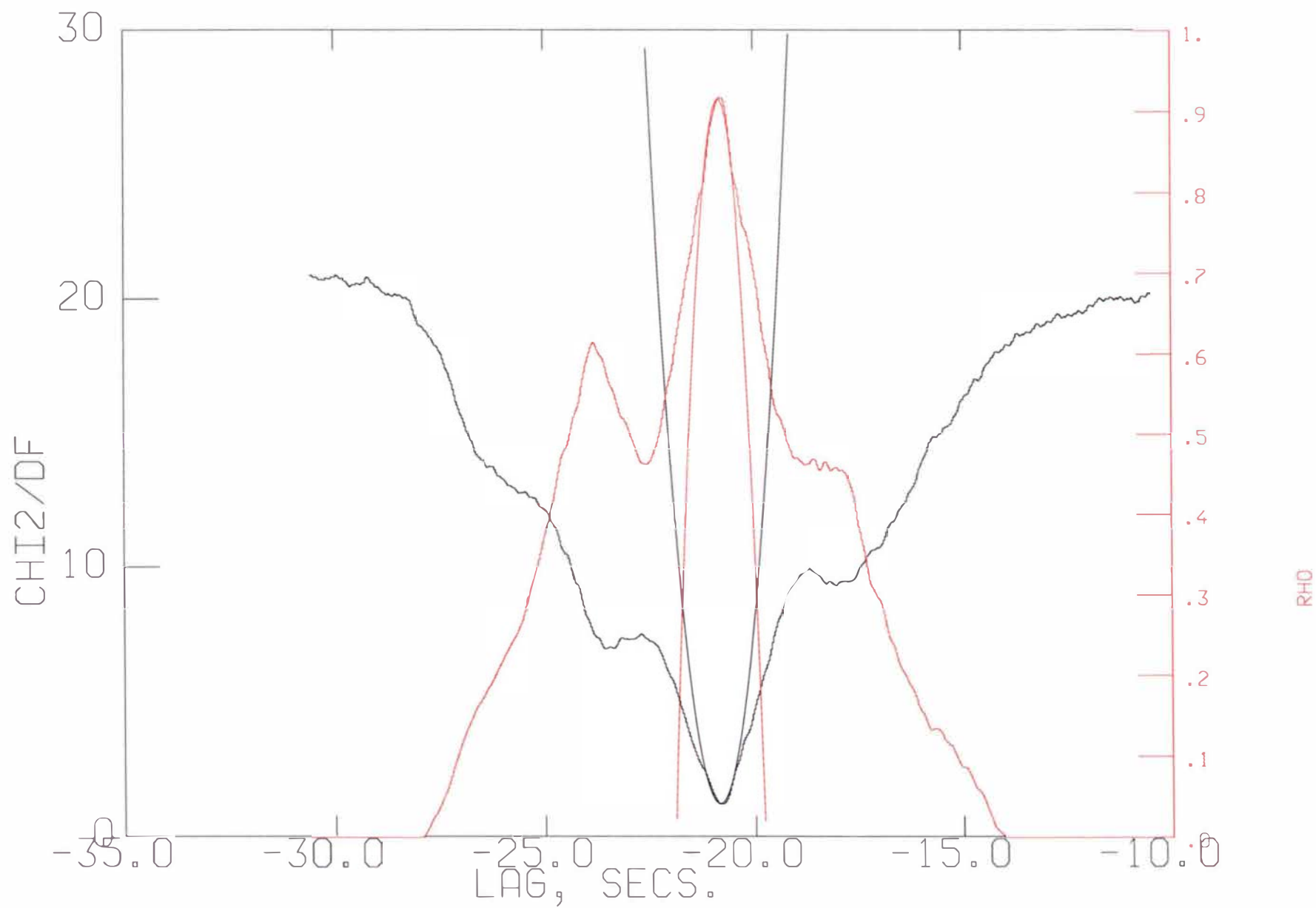


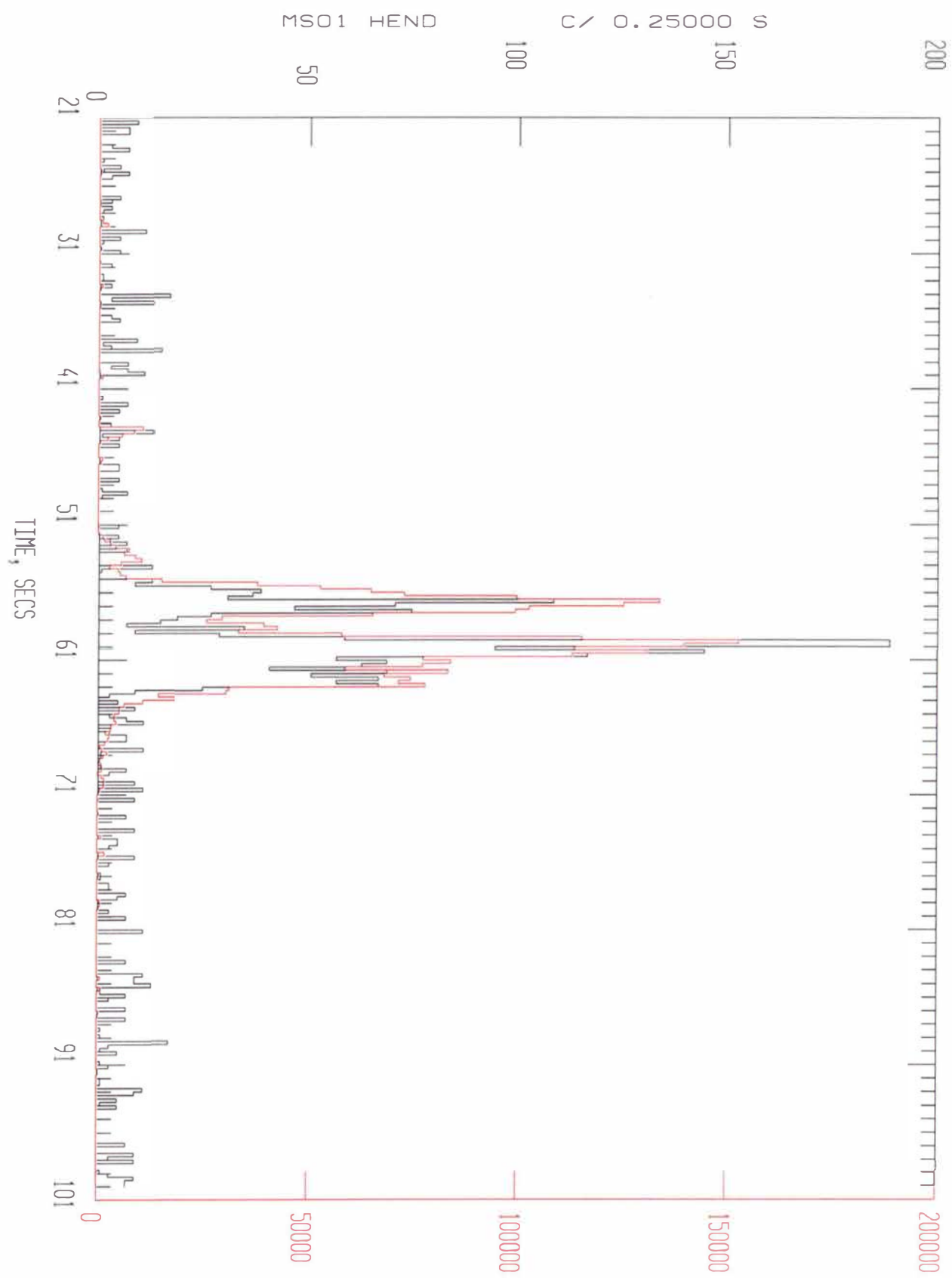
EVENT OF AUG 25, 2011 2:26

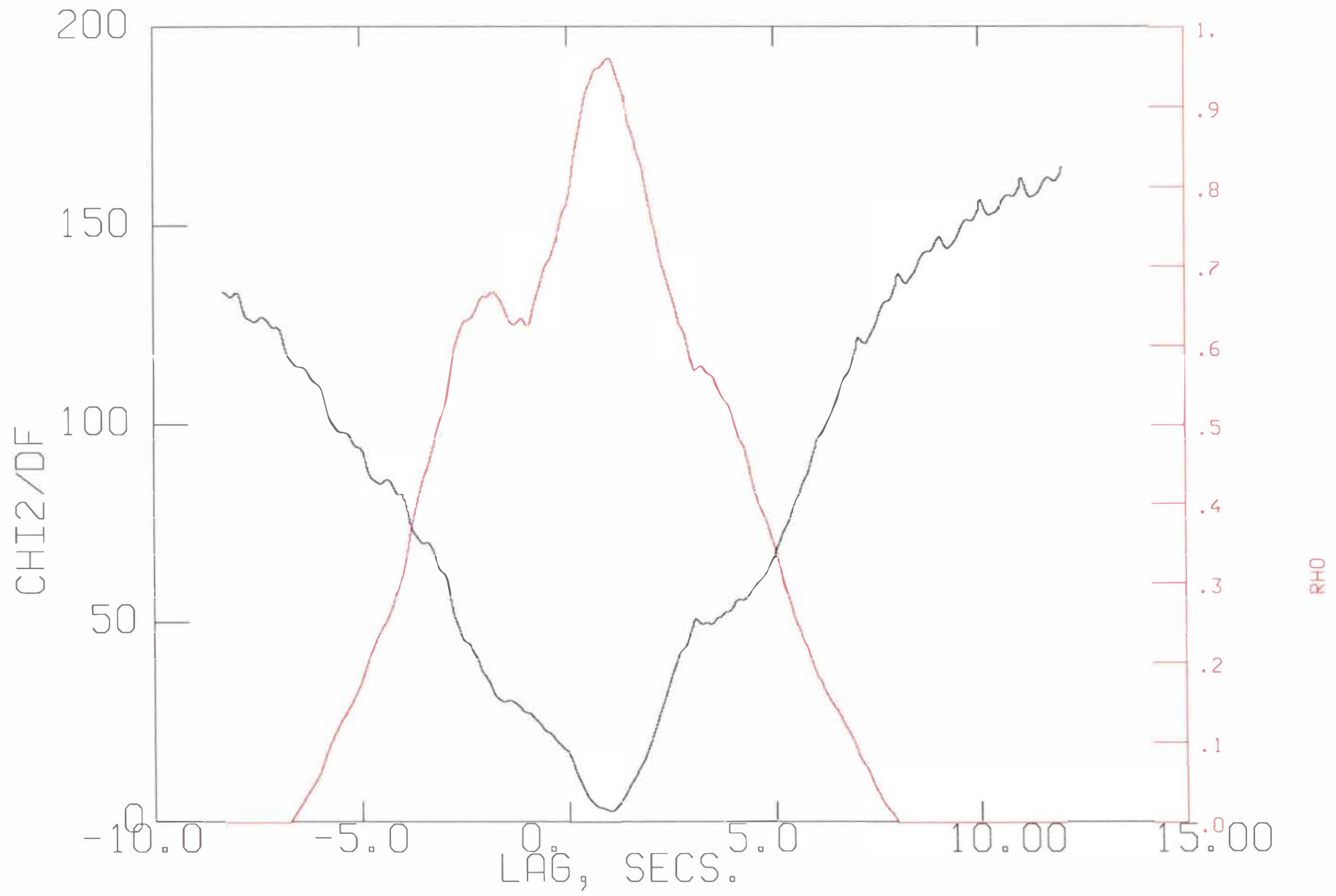
25/08/2011

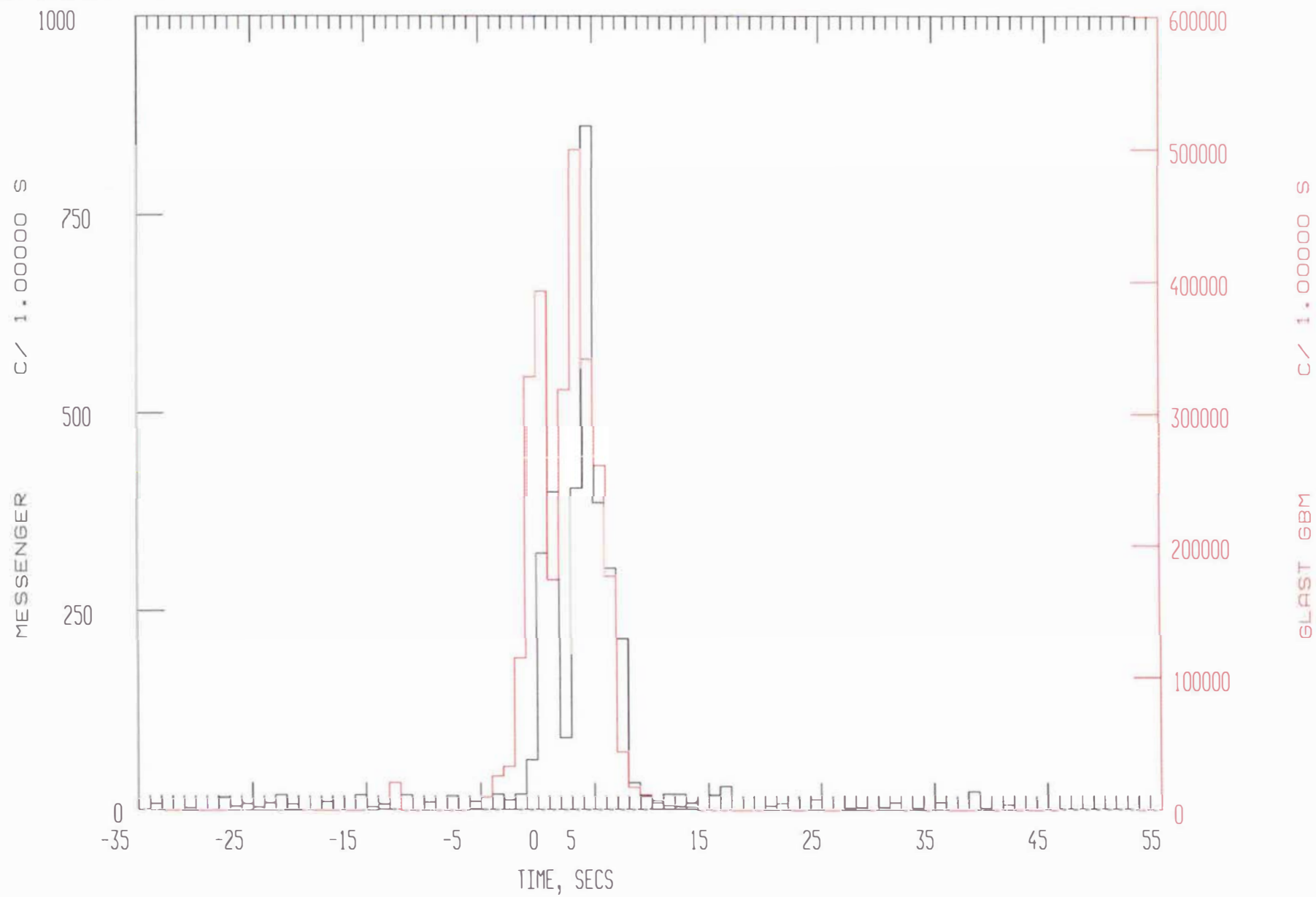
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 FERMI 2 MESSENGER 3 MO

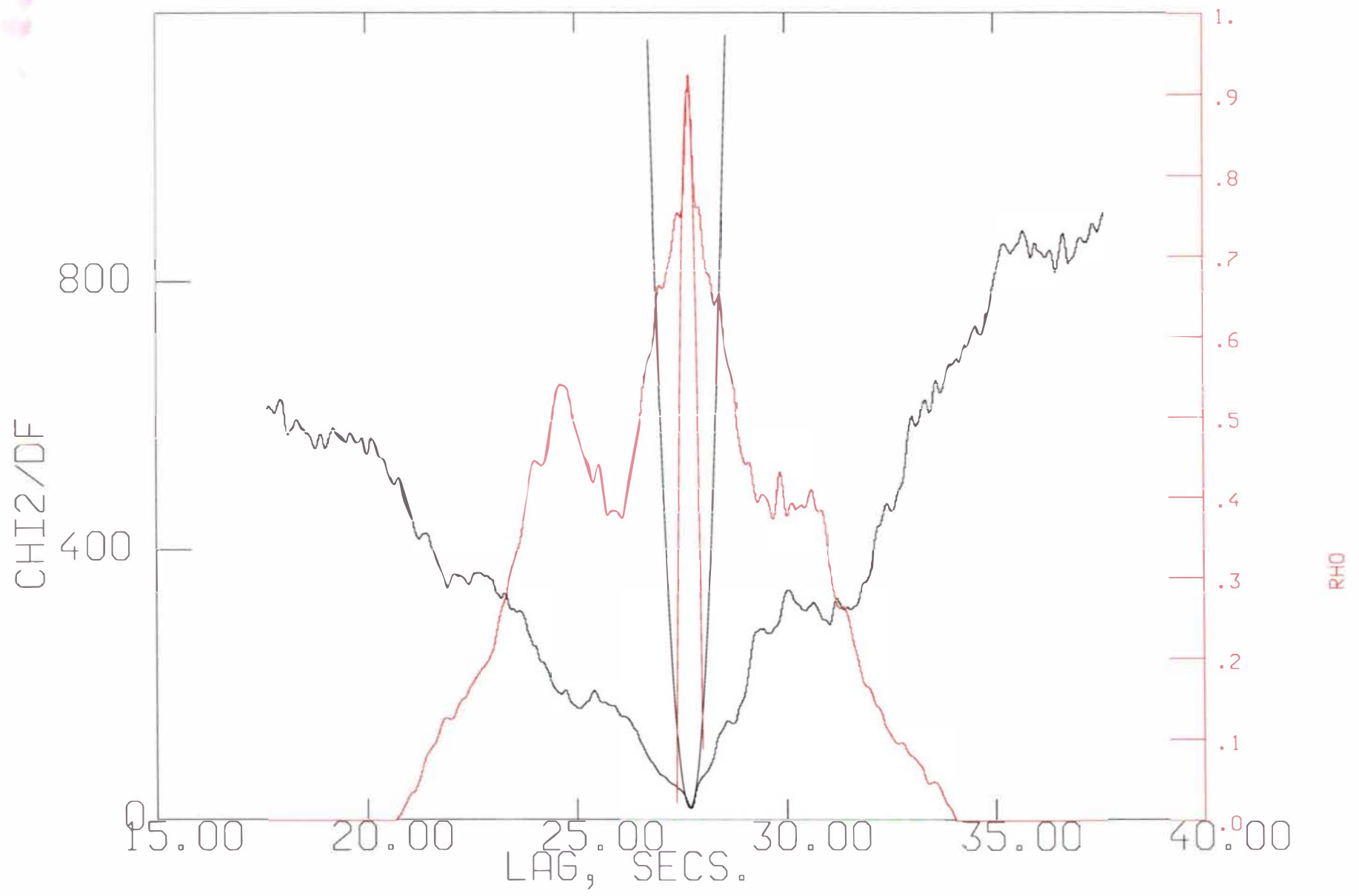


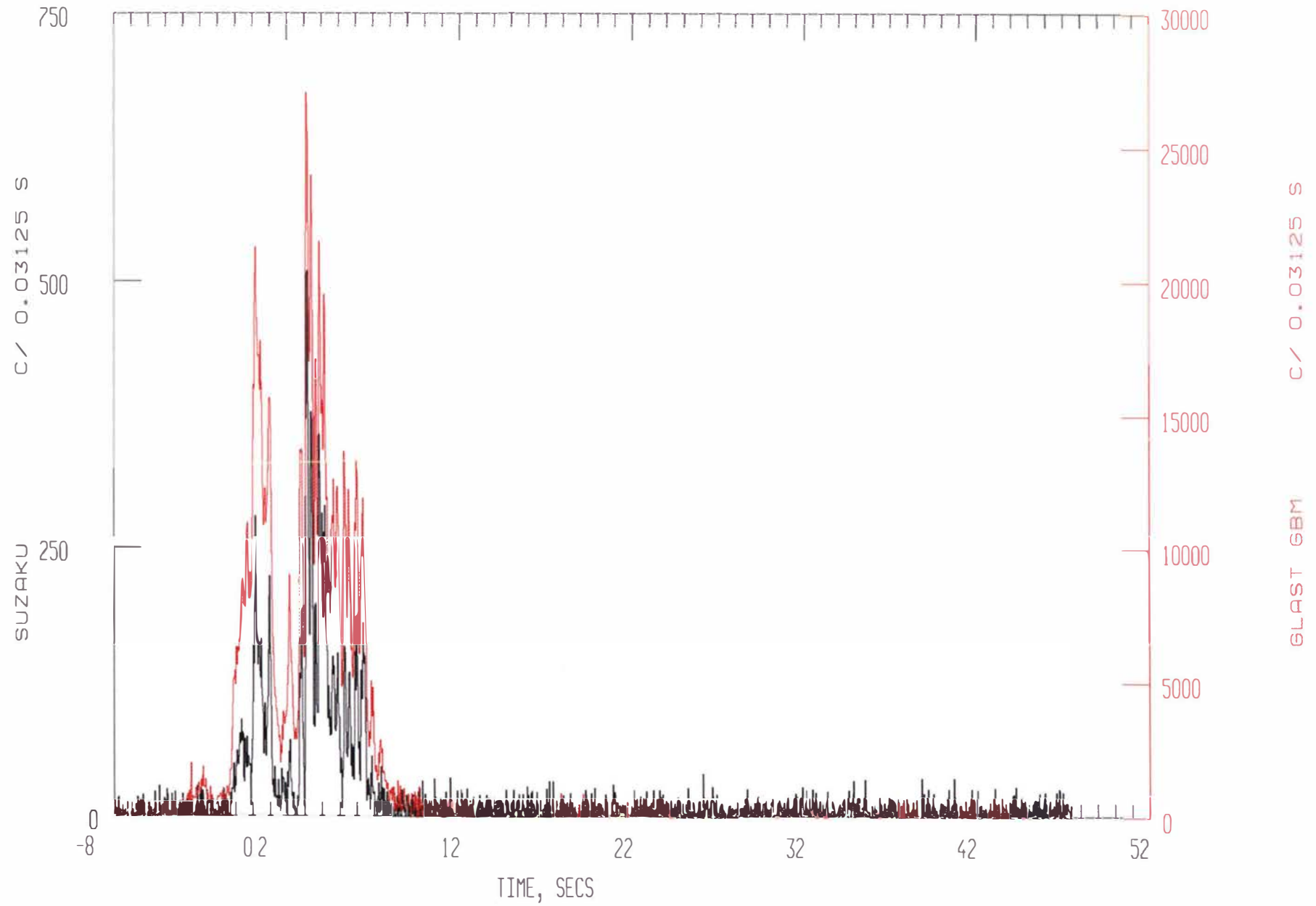












From val@mail.ioffe.ru Fri Sep 2 06:26:24 2011
X-Barracuda-Envelope-From: val@mail.ioffe.ru
Date: Fri, 02 Sep 2011 17:20:56 +0400
From: "Valentin Pal'shin" <val@mail.ioffe.ru>
To: Valerie Connaughton <connauv@uah.edu>,
Kevin Hurley <khurley@ssl.berkeley.edu>
Subject: Re: [Ipn] 1st draft of GCN Circular for 110825A
X-Ucb-Scan-Signature: e577c03ec39366c468d645fa3ce7b6ac6b8183f8
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='DKIM_SIGNED 0.1,
RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Valerie and Kevin,

> This looks good to me. Did Konus Wind not see this one?

Unfortunately the Konus-Wind data for the first half of August 25 were lost due to H/W problem at antenna site.

Valentin

--

Valentin Pal'shin

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

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

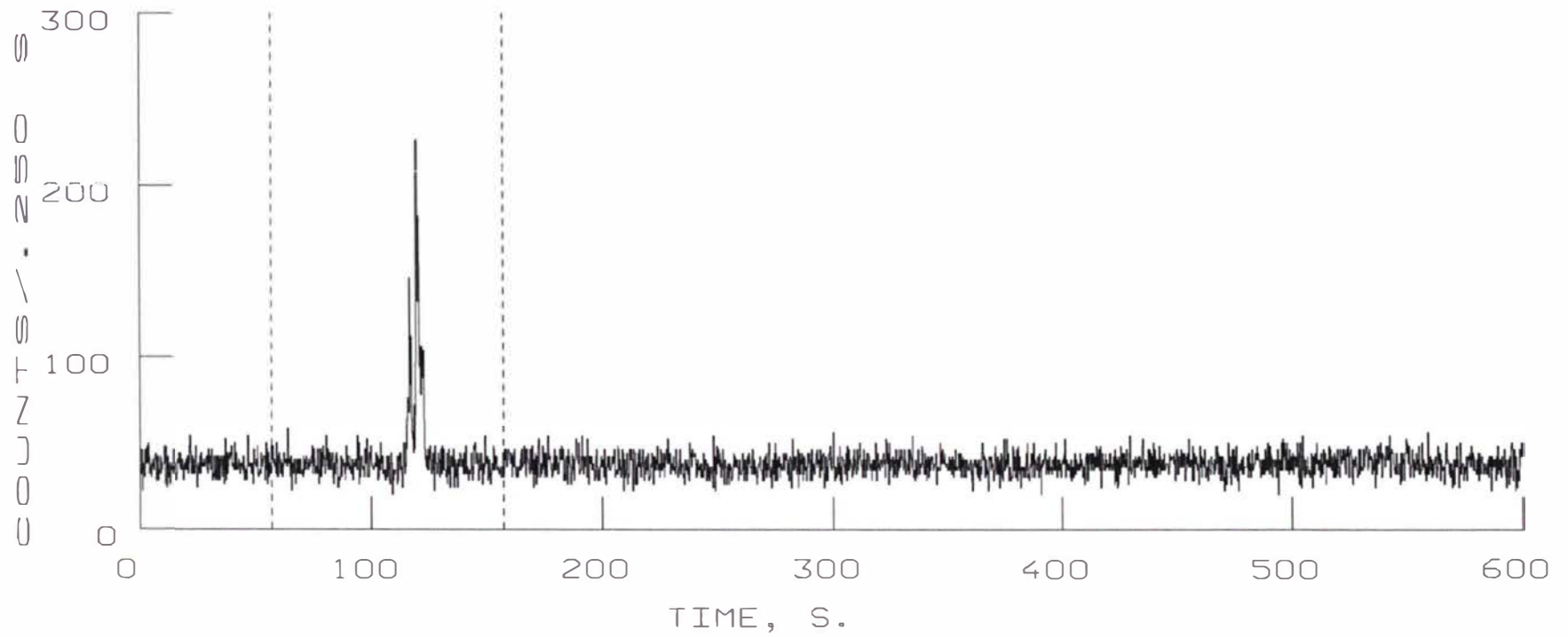
MS01 HEND

25/08/2011

25/08/2011 8159.692 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



SUZAKU

25/08/11

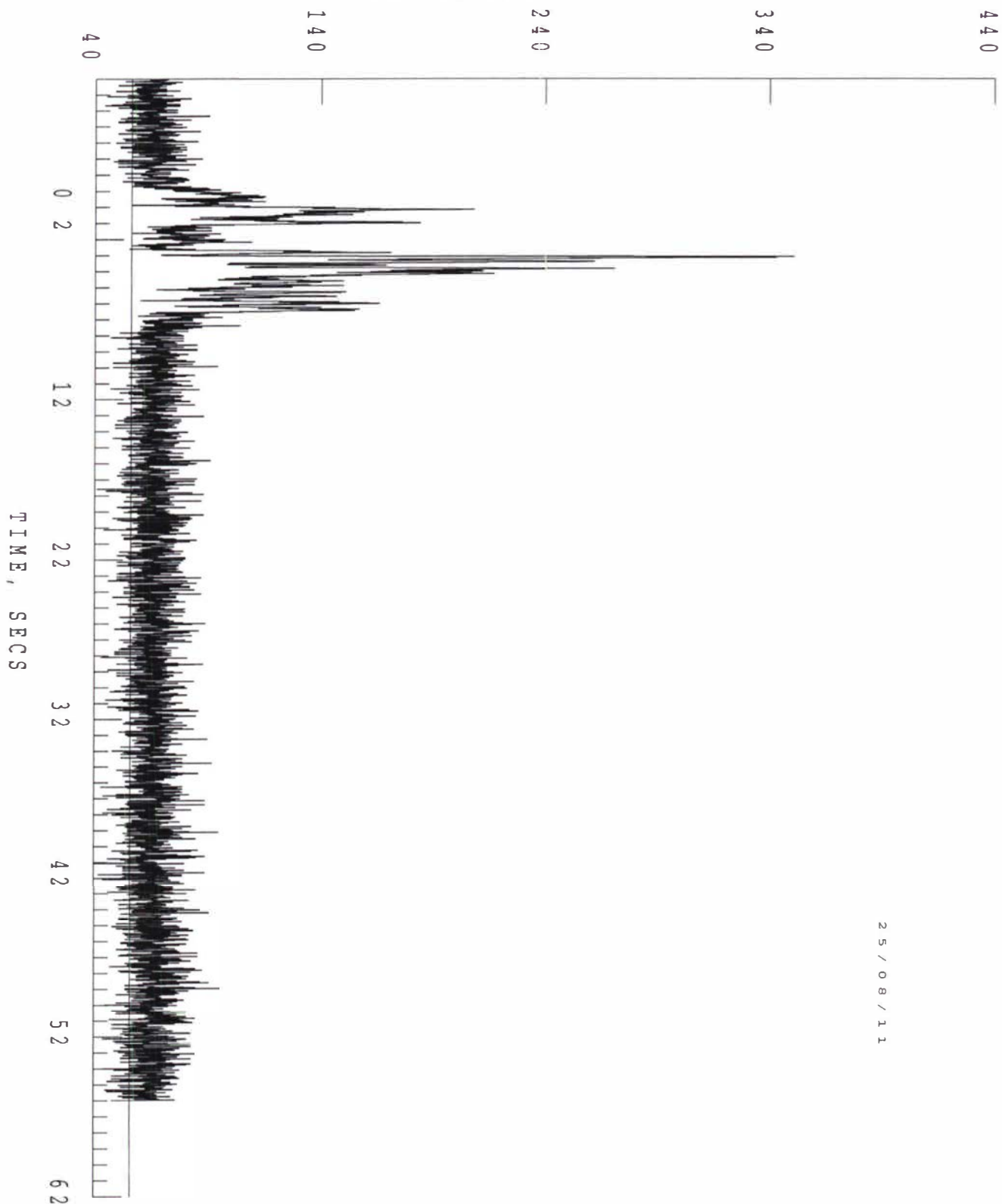
~~28983.408~~

50 - 240 keV

Wrong time
should have been

02:27:03

COUNTS/0.016 S



GLAST

25/08/11

8810.938

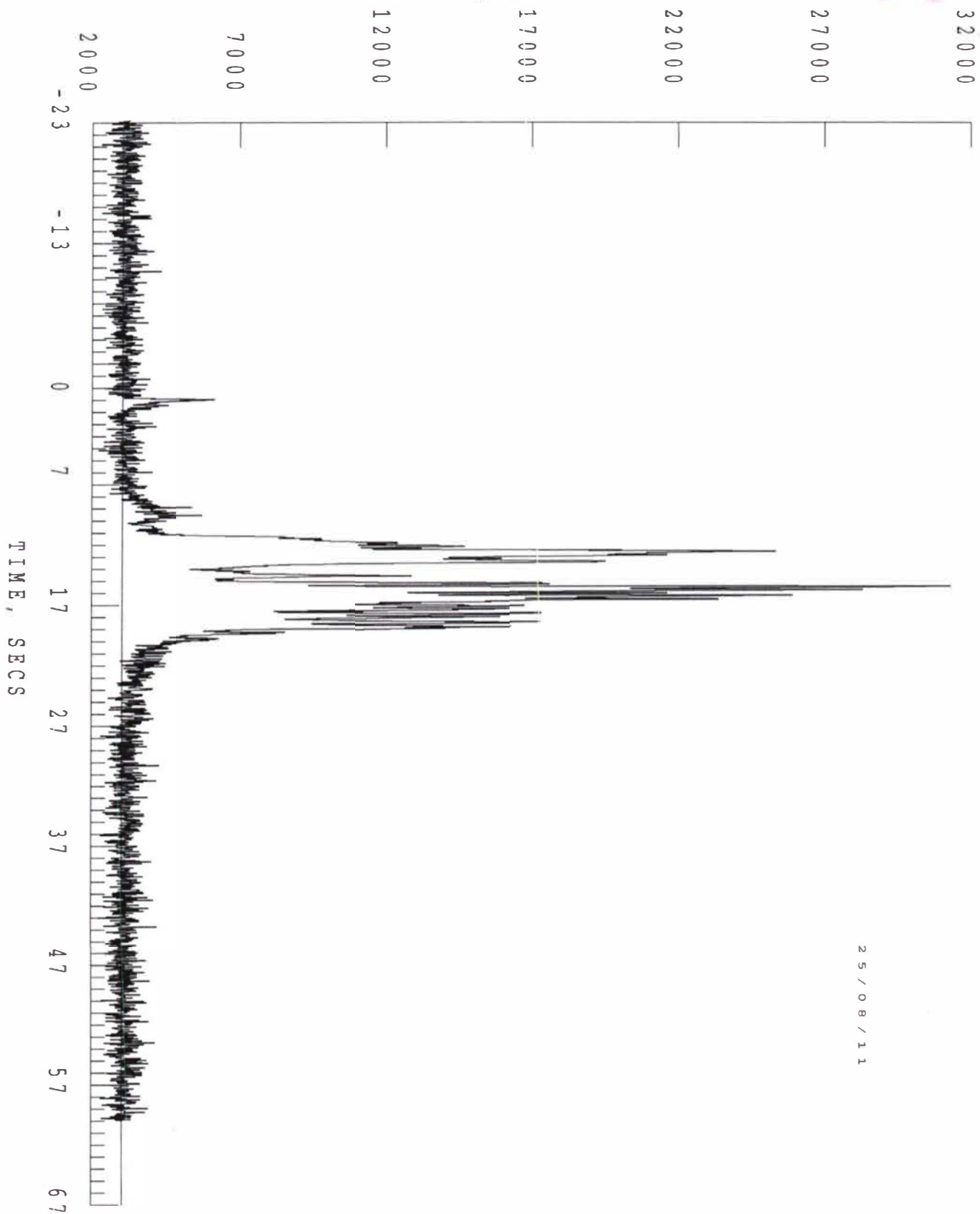
02

26- 293 keV

45.95

13

COUNTS/0.032 S



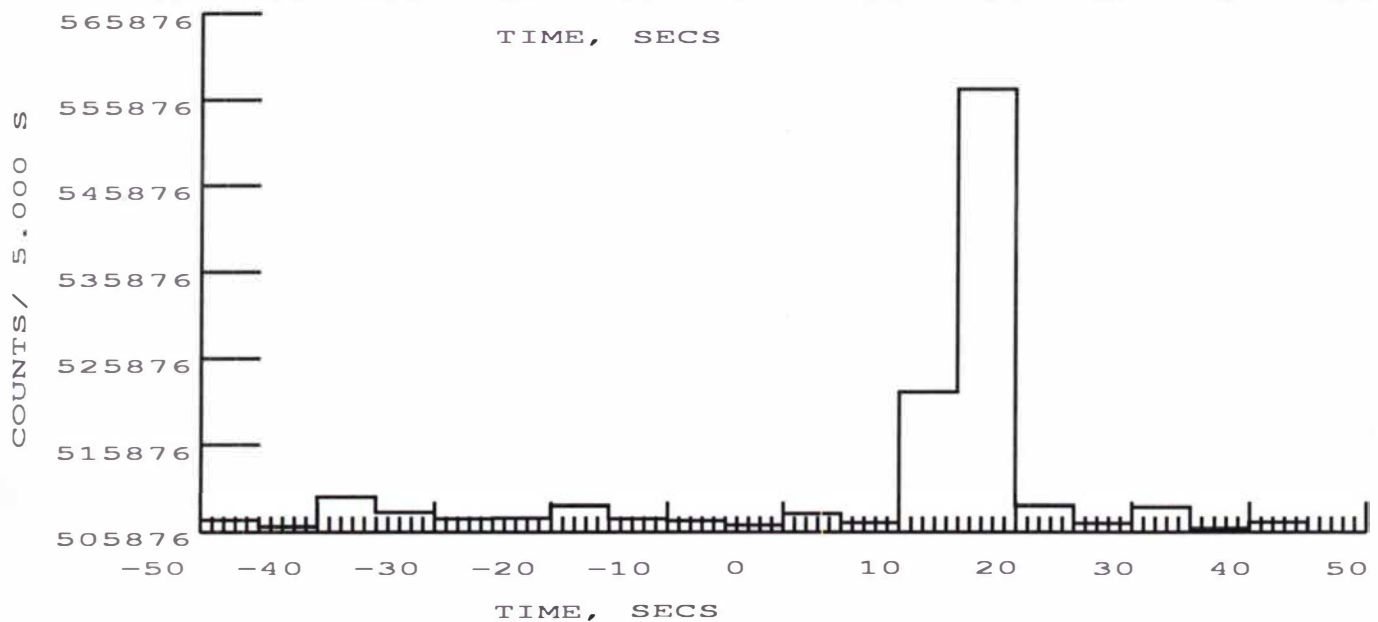
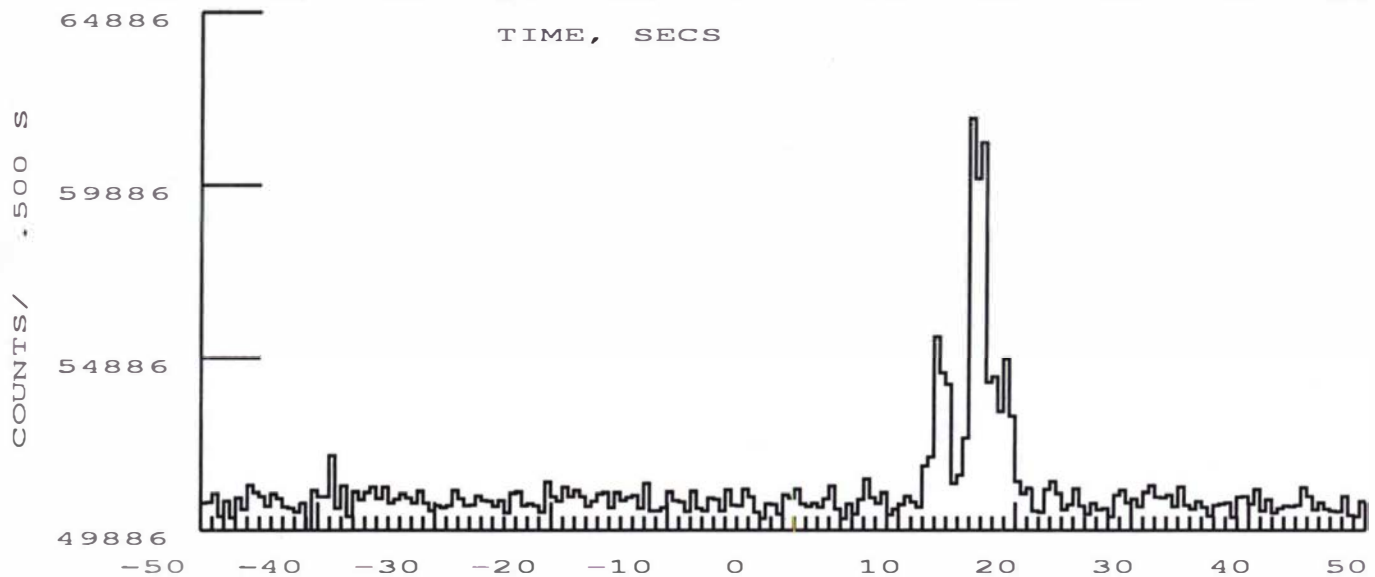
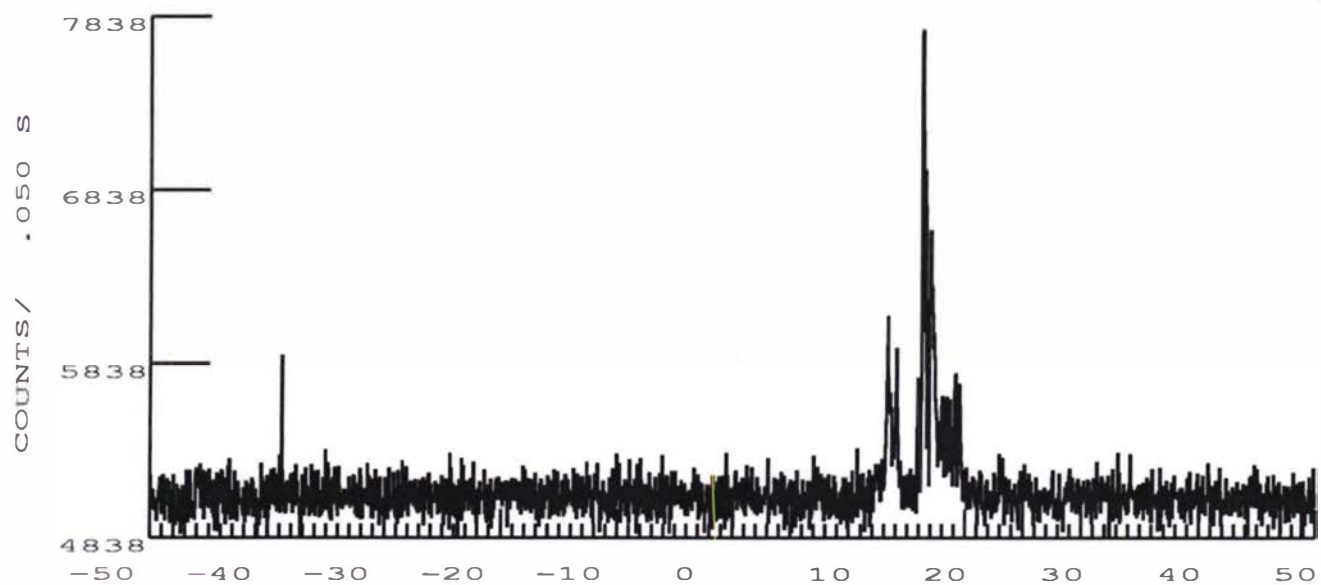
INTEGRAL

25/08/11

8810.000

02:26:50.0

20/01/14



Subject: [lbn] BAT lightcurve for trigger at 110825_0226

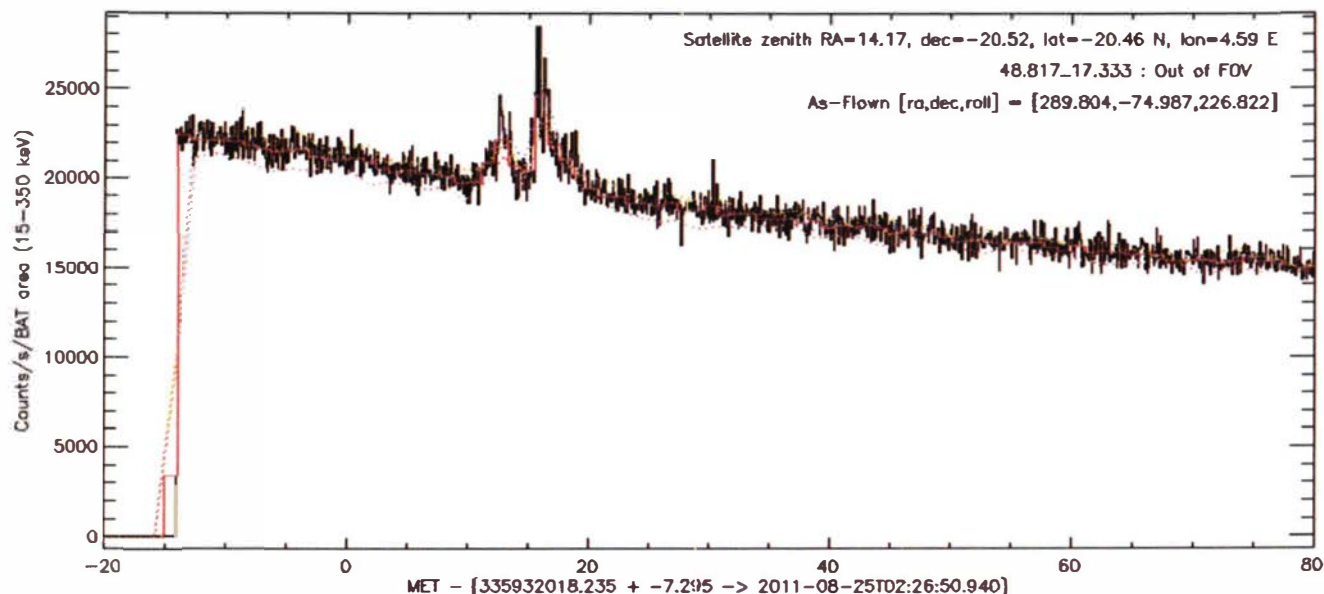
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 25 Aug 2011 00:28:26 -0600 (MDT)

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

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

/tmp/110825_0226.png



```
% /usr/local/bin/swinfo -o 335932018.235 -s 38.567 22.350
Time(MET + UTCF -> UT): 335932018.235 + -7.295 -> 2011-08-25T02:26:50.940
Swift Zenith(RA,dec): 14.17, -20.52
Swift Location(lon,lat,alt): 4.59 E, -20.46 N, 578 km
Obs Sequence Number: 00074363034
Obs Target Name: saa-cold-237-01
Obs Date and Times: 2011-08-25 02:04:54 - 02:31:53
Obs Pointing(ra,dec,roll): 289.804, -74.987, 226.82
38.567_22.350_imageloc (boresight_dist, angle): (116, 145)
38.567_22.350_exposure (cm2 cos adjusted): 0
38.567_22.350_altitude: 64 (up)
```

```
% /usr/local/bin/swinfo -o 335932018.235 -s 42.070 3.840
Time(MET + UTCF -> UT): 335932018.235 + -7.295 -> 2011-08-25T02:26:50.940
Swift Zenith(RA,dec): 14.17, -20.52
Swift Location(lon,lat,alt): 4.59 E, -20.46 N, 578 km
Obs Sequence Number: 00074363034
Obs Target Name: saa-cold-237-01
Obs Date and Times: 2011-08-25 02:04:54 - 02:31:53
Obs Pointing(ra,dec,roll): 289.804, -74.987, 226.82
42.070_3.840_imageloc (boresight_dist, angle): (99, 154)
42.070_3.840_exposure (cm2 cos adjusted): 0
42.070_3.840_altitude: 77 (up)
```

```
% /usr/local/bin/swinfo -o 335932018.235 -s 42.400 6.517
Time(MET + UTCF -> UT): 335932018.235 + -7.295 -> 2011-08-25T02:26:50.940
Swift Zenith(RA,dec): 14.17, -20.52
Swift Location(lon,lat,alt): 4.59 E, -20.46 N, 578 km
Obs Sequence Number: 00074363034
Obs Target Name: saa-cold-237-01
Obs Date and Times: 2011-08-25 02:04:54 - 02:31:53
Obs Pointing(ra,dec,roll): 289.804, -74.987, 226.82
42.400_6.517_imageloc (boresight_dist, angle): (102, 153)
42.400_6.517_exposure (cm2 cos adjusted): 0
42.400_6.517_altitude: 75 (up)
```

```
% /usr/local/bin/swinfo -o 335932018.235 -s 45.940 13.850
Time(MET + UTCF -> UT): 335932018.235 + -7.295 -> 2011-08-25T02:26:50.940
Swift Zenith(RA,dec): 14.17, -20.52
```

[lpn] BAT lightcurve for trigger at 110825_0226

```
Swift Location(lon,lat,alt): 4.59 E, -20.46 N, 578 km
Obs Sequence Number: 00074363034
Obs Target Name: saa-cold-237-01
Obs Date and Times: 2011-08-25 02:04:54 - 02:31:53
Obs Pointing(ra,dec,roll): 289.804, -74.987, 226.82
45.940_13.850_imageloc (boresight_dist, angle): (110, 155)
45.940_13.850_exposure (cm² cos adjusted): 0
45.940_13.850_altitude: 67 (up)

% /usr/local/bin/swinfo -o 335932018.235 -s 46.750_14.310
Time(MET + UTCF -> UT): 335932018.235 + -7.295 -> 2011-08-25T02:26:50.940
Swift Zenith(RA,dec): 14.17, -20.52
Swift Location(lon,lat,alt): 4.59 E, -20.46 N, 578 km
Obs Sequence Number: 00074363034
Obs Target Name: saa-cold-237-01
Obs Date and Times: 2011-08-25 02:04:54 - 02:31:53
Obs Pointing(ra,dec,roll): 289.804, -74.987, 226.82
46.750_14.310_imageloc (boresight_dist, angle): (111, 156)
46.750_14.310_exposure (cm² cos adjusted): 0
46.750_14.310_altitude: 66 (up)

% /usr/local/bin/swinfo -o 335932018.235 -s 48.817_17.333
Time(MET + UTCF -> UT): 335932018.235 + -7.295 -> 2011-08-25T02:26:50.940
Swift Zenith(RA,dec): 14.17, -20.52
Swift Location(lon,lat,alt): 4.59 E, -20.46 N, 578 km
Obs Sequence Number: 00074363034
Obs Target Name: saa-cold-237-01
Obs Date and Times: 2011-08-25 02:04:54 - 02:31:53
Obs Pointing(ra,dec,roll): 289.804, -74.987, 226.82
48.817_17.333_imageloc (boresight_dist, angle): (114, 157)
48.817_17.333_exposure (cm² cos adjusted): 0
48.817_17.333_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>

/tmp/110825_0226_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110825_0226.png

/tmp/110825_0226.png

Content-Type: image/png
Content-Encoding: base64

Part 1.4

Part 1.4

Content-Type: text/plain
Content-Encoding: 7bit

Part 1.5

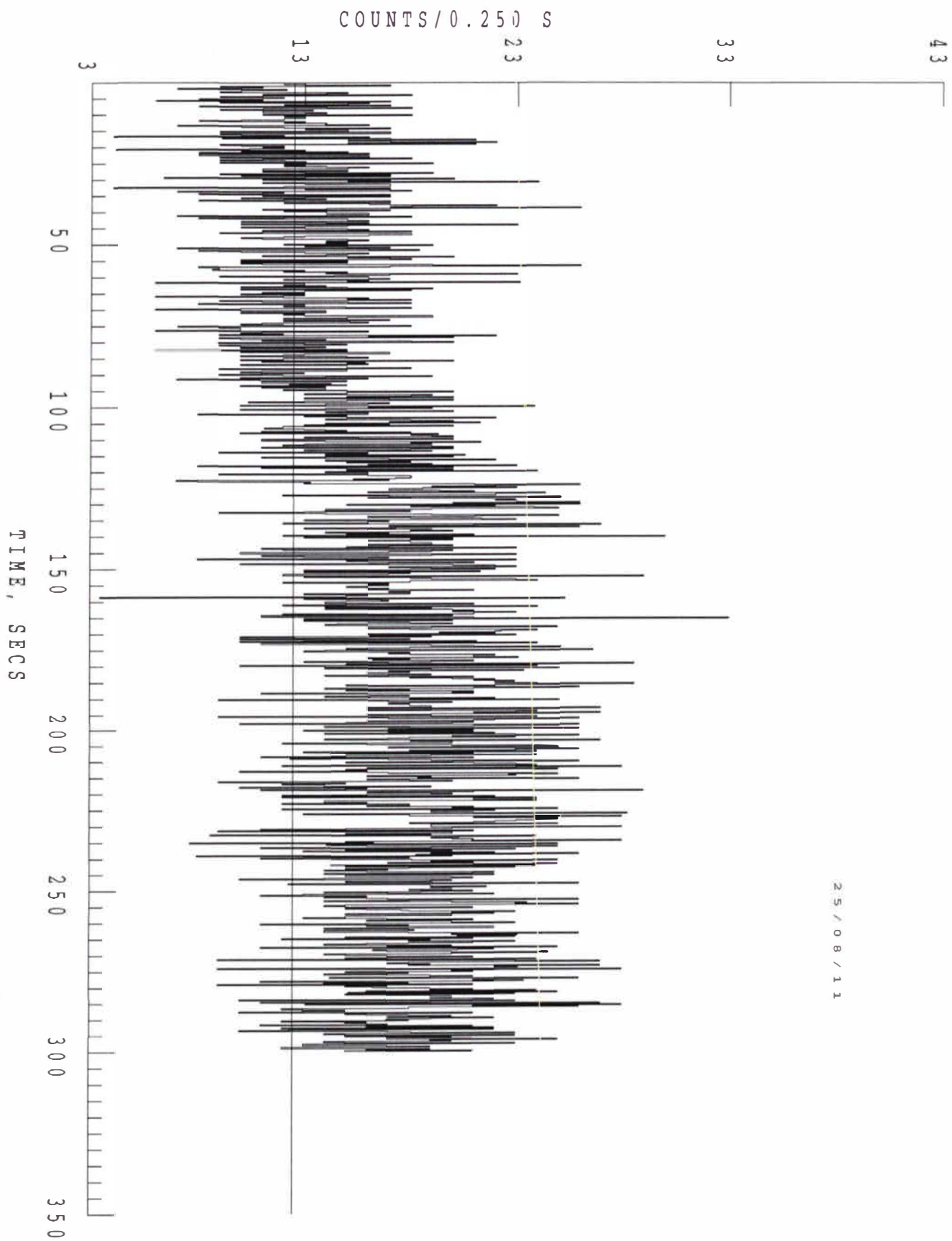
Part 1.5

Content-Type: text/plain
Content-Encoding: 7bit

HESSI

25/08/11 8660.000 (GLAST_20110825_08810)

25- 150 keV

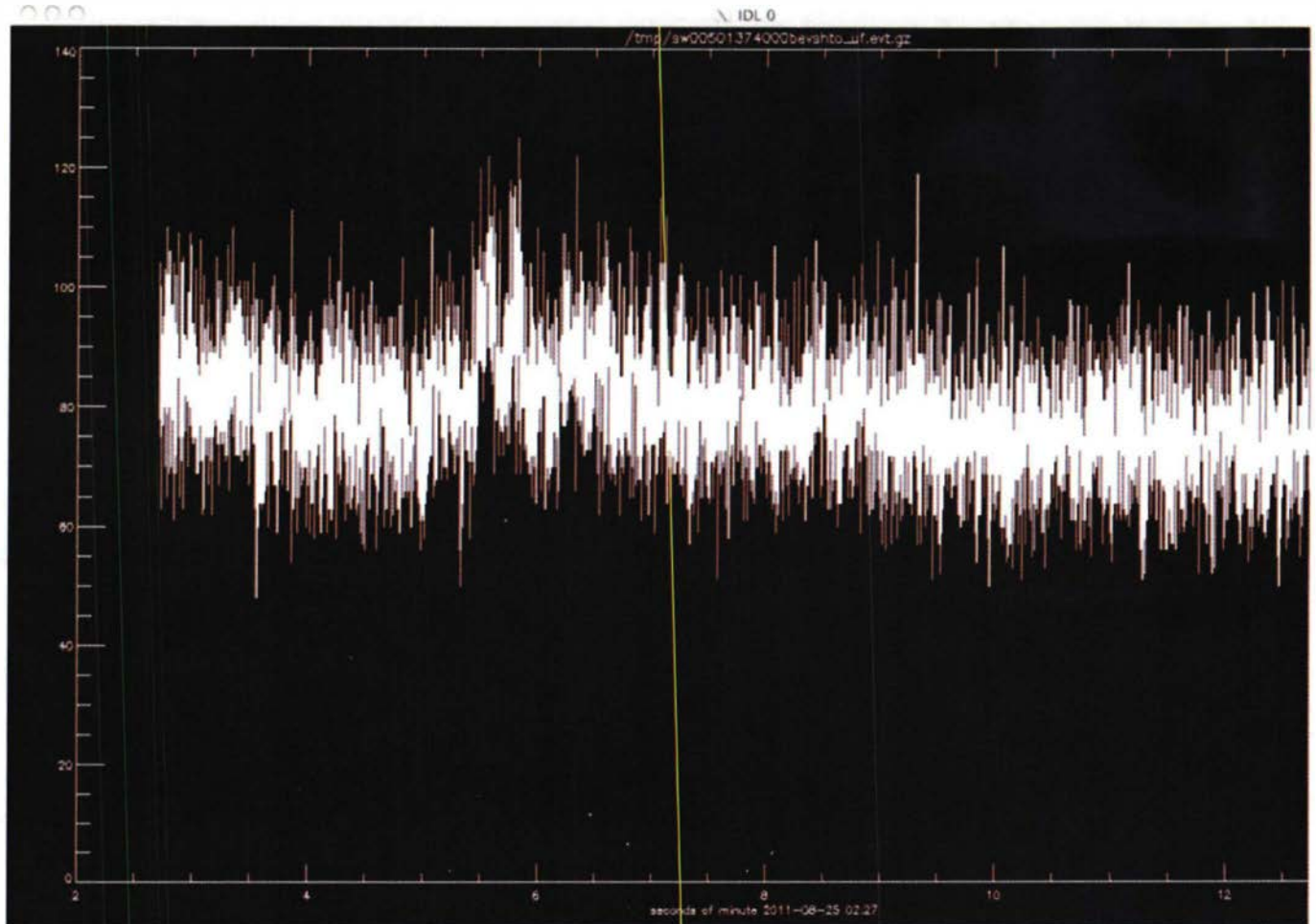


Re: [Ipn] bright hard GRB 110825(A) (=Fermi/GBM trigger 335932012)

Subject: Re: [Ipn] bright hard GRB 110825(A) (=Fermi/GBM trigger 335932012)
From: David Palmer <palmer@lanl.gov>
Date: Thu, 25 Aug 2011 13:46:09 -0600
To: Martino Marisaldi <marisaldi@iasfbo.inaf.it>
CC: ipn@ssl.berkeley.edu

2 ms BAT data. (64 ms was sent out automatically).

Screen shot 2011-08-25 at 1.44.53 PM.png



```
% /usr/local/bin/swinfo -o 335932018.235 -s 38.567 22.350
Time(MET + UTCF -> UT):      335932018.235 + -7.295 -> 2011-08-25T02:26:50.940
Swift Zenith(RA,dec):        14.17, -20.52
Swift Location(lon,lat,alt):  4.59 E, -20.46 N, 578 km
Obs Sequence Number:         00074363034
Obs Target Name:              saa-cold-237-01
Obs Date and Times:           2011-08-25 02:04:54 - 02:31:53
Obs Pointing(ra,dec,roll):    289.804, -74.987, 226.82
38.567_22.350_imageloc (boresight_dist, angle): (116, 145)
38.567_22.350_exposure (cm2 cos adjusted): 0
38.567_22.350_altitude: 64 (up)
```

On Aug 25, 2011, at 2:16 AM, Martino Marisaldi wrote:

Dear colleagues,

AGILE MCAL triggered also on this GRB on 25/08/2011 at 02:27:03 UT, see the attached light curve.
This burst has been detected by Fermi/GBM and BAT.

In attachment the ASCII light curve with 4ms time bin and ephemeris (92.711536 -2.1314543 6901.4529).

Best wishes,

Martino

<110825_eph.dat>

<MCAL_022374_110825_02-27-03.gif>

=====

Martino Marisaldi

INAF / IASF
Via P. Gobetti 101
40129 Bologna ITALY

Phone: +39 051 6398662 +39 051 6398654
Fax: +39 051 6398723

marisaldi@iasfbo.inaf.it

'AGILEMCAL' '25/08/11' 8823.465552
330 2000000

1.30286 0.00400
-0.500000 0.00000
-0.496000 1.00000
-0.492000 1.00000
-0.488000 1.00000
-0.484000 0.00000
-0.480000 2.00000
-0.476000 3.00000
-0.472000 1.00000
-0.468000 3.00000
-0.464000 0.00000
-0.460000 1.00000
-0.456000 2.00000
-0.452000 2.00000
-0.448000 3.00000
-0.444000 1.00000
-0.440000 1.00000
-0.436000 0.00000
-0.432000 1.00000
-0.428000 1.00000
-0.424000 1.00000
-0.420000 1.00000
-0.416000 0.00000
-0.412000 2.00000
-0.408000 0.00000
-0.404000 4.00000
-0.400000 3.00000
-0.396000 4.00000
-0.392000 0.00000
-0.388000 2.00000
-0.384000 2.00000
-0.380000 1.00000
-0.376000 1.00000
-0.372000 1.00000
-0.368000 1.00000
-0.364000 1.00000
-0.360000 1.00000
-0.356000 1.00000
-0.352000 2.00000
-0.348000 1.00000
-0.344000 1.00000
-0.340000 0.00000
-0.336000 0.00000
-0.332000 0.00000
-0.328000 3.00000
-0.324000 1.00000
-0.320000 0.00000
-0.316000 2.00000
-0.312000 2.00000
-0.308000 3.00000
-0.304000 0.00000
-0.300000 0.00000
-0.296000 2.00000
-0.292000 2.00000
-0.288000 1.00000
-0.284000 2.00000
-0.280000 1.00000
-0.276000 1.00000
-0.272000 1.00000
-0.268000 3.00000
-0.264000 1.00000
-0.260000 3.00000
-0.256000 2.00000
-0.252000 0.00000
-0.248000 0.00000
-0.244000 2.00000
-0.240000 1.00000
-0.236000 2.00000
-0.232000 1.00000
-0.228000 2.00000
-0.224000 1.00000
-0.220000 1.00000
-0.216000 1.00000
-0.212000 0.00000
-0.208000 3.00000
-0.204000 2.00000
-0.200000 0.00000
-0.196000 1.00000
-0.192000 2.00000
-0.188000 2.00000
-0.184000 2.00000
-0.180000 0.00000
-0.176000 0.00000
-0.172000 2.00000
-0.168000 1.00000
-0.164000 1.00000
-0.160000 0.00000
-0.156000 2.00000
-0.152000 5.00000
-0.148000 1.00000
-0.144000 1.00000
-0.140000 2.00000
-0.136000 3.00000

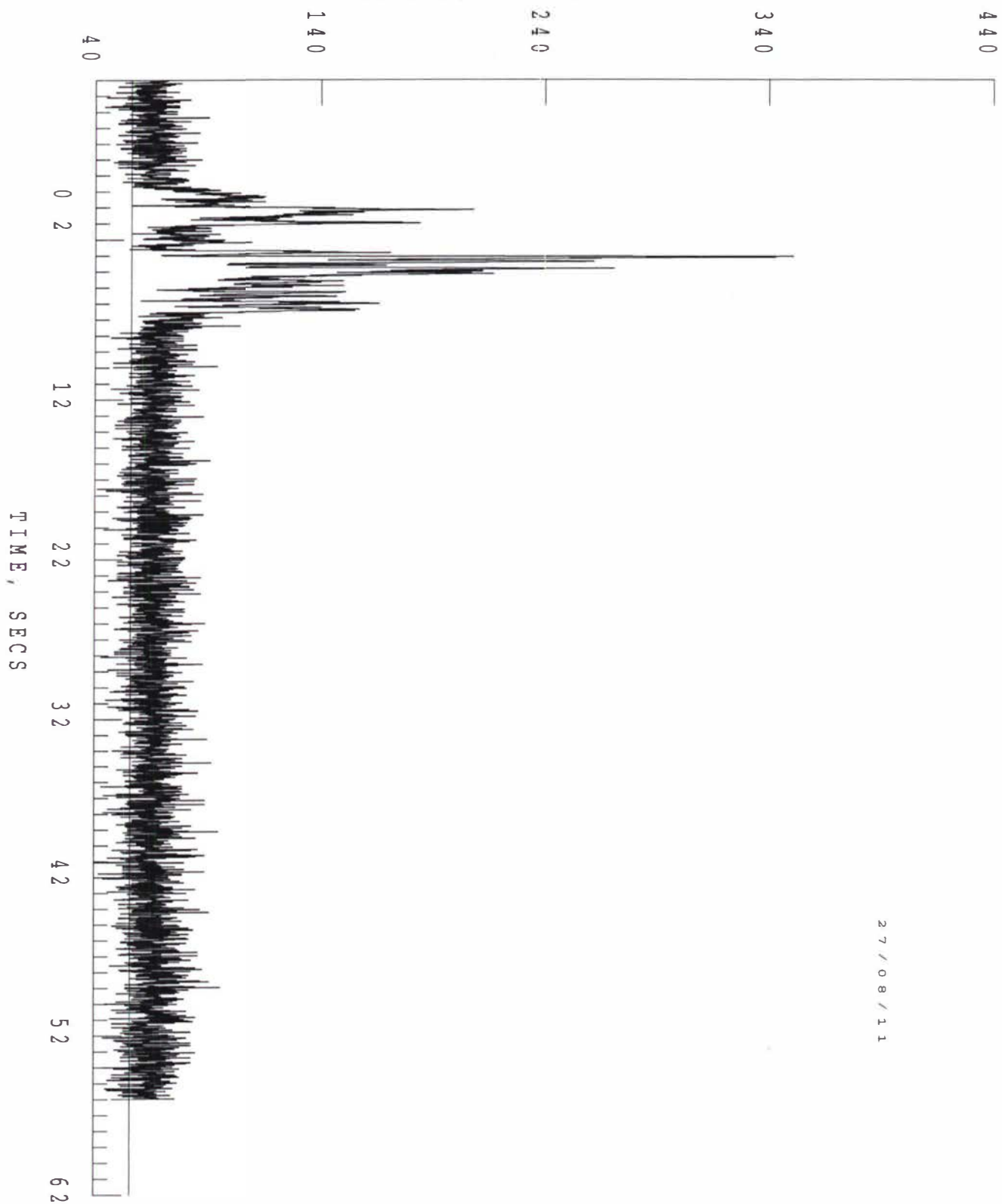
SUZAKU

25/08/11

8823.411

50 - 240 keV

COUNTS/0.016 S



From ipn-bounces@ssl.berkeley.edu Thu Aug 25 01:16:07 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
From: Martino Marisaldi <marisaldi@iasfbo.inaf.it>
Date: Thu, 25 Aug 2011 10:16:55 +0200
To: ipn@ssl.berkeley.edu
Subject: [Ipn] bright hard GRB 110825(A) (=Fermi/GBM trigger 335932012)

Content-Type: multipart/alternative; boundary="Apple-Mail-9-945566792"
Content-Length: 427465
X-Lines: 8323

Dear colleagues,

AGILE MCAL triggered also on this GRB on 25/08/2011 at 02:27:03 UT, see the attachment. This burst has been detected by Fermi/GBM and BAT.

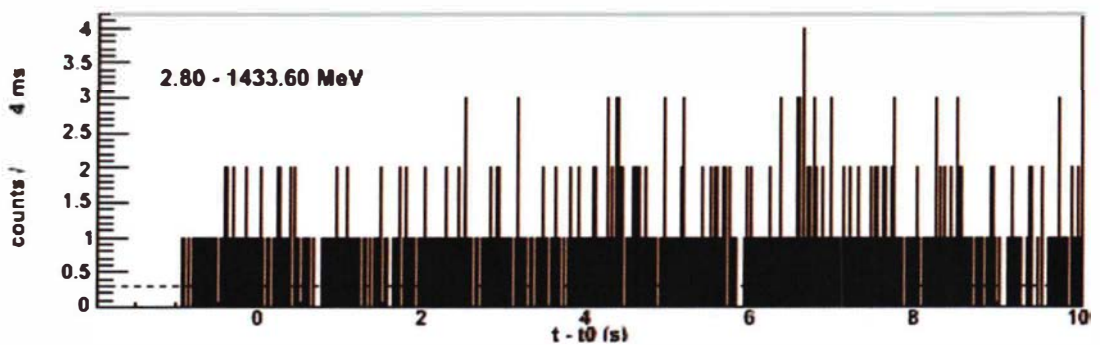
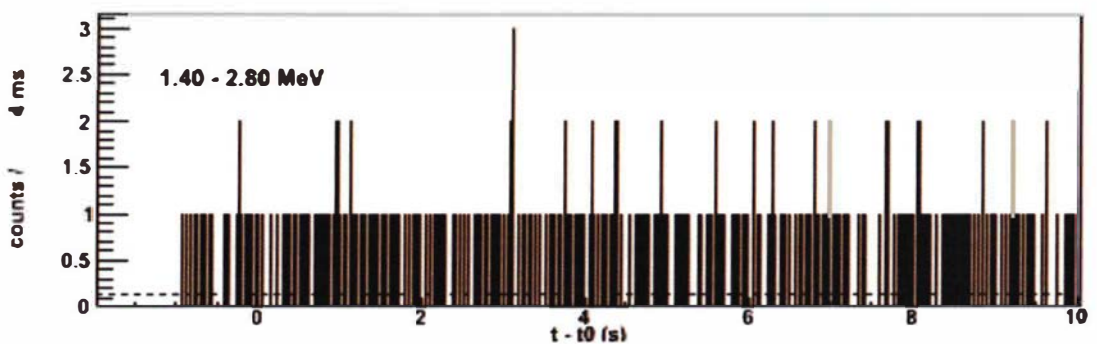
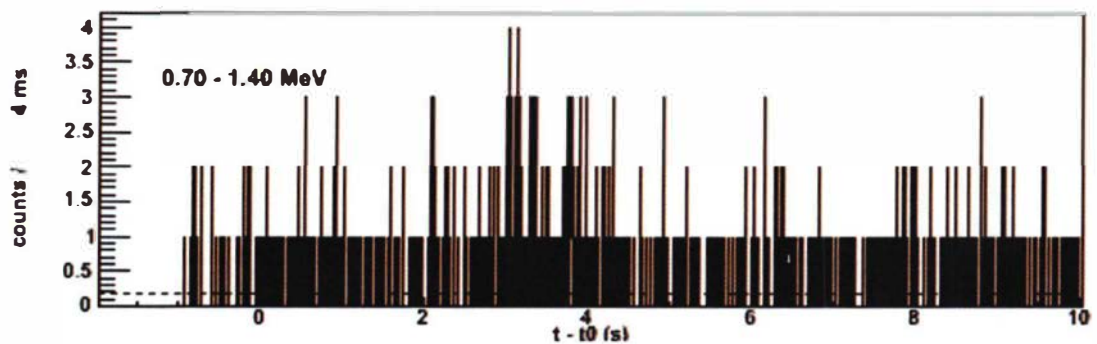
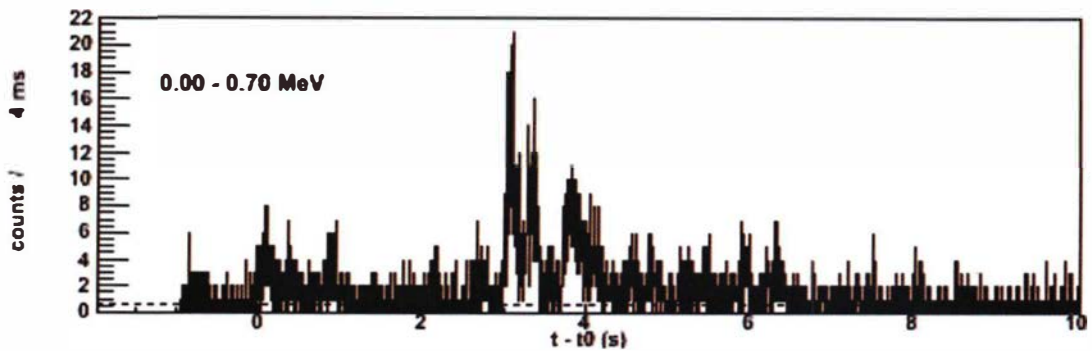
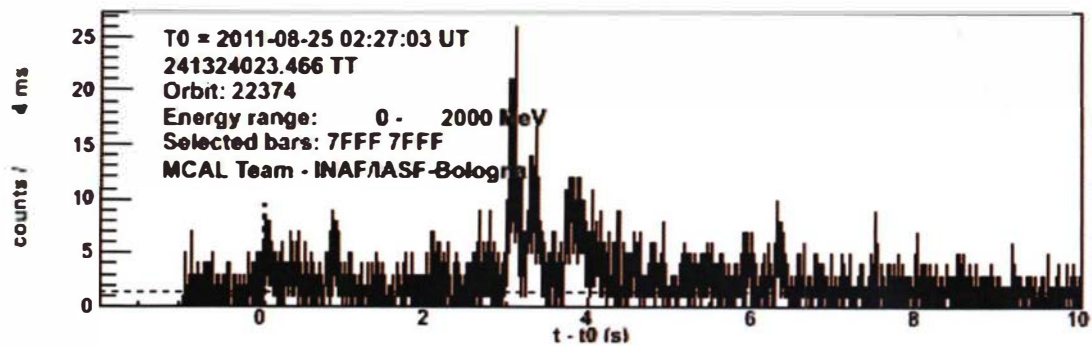
In attachment the ASCII light curve with 4ms time bin and ephemeris (92.711536

Best wishes,
Martino

=====
Martino Marisaldi
INAF / IASF
Via P. Gobetti 101
40129 Bologna ITALY

Phone: +39 051 6398662 +39 051 6398654
Fax: +39 051 6398723

marisaldi@iasfbo.inaf.it
=====



08/08/11

MESSENGER

25/08/11

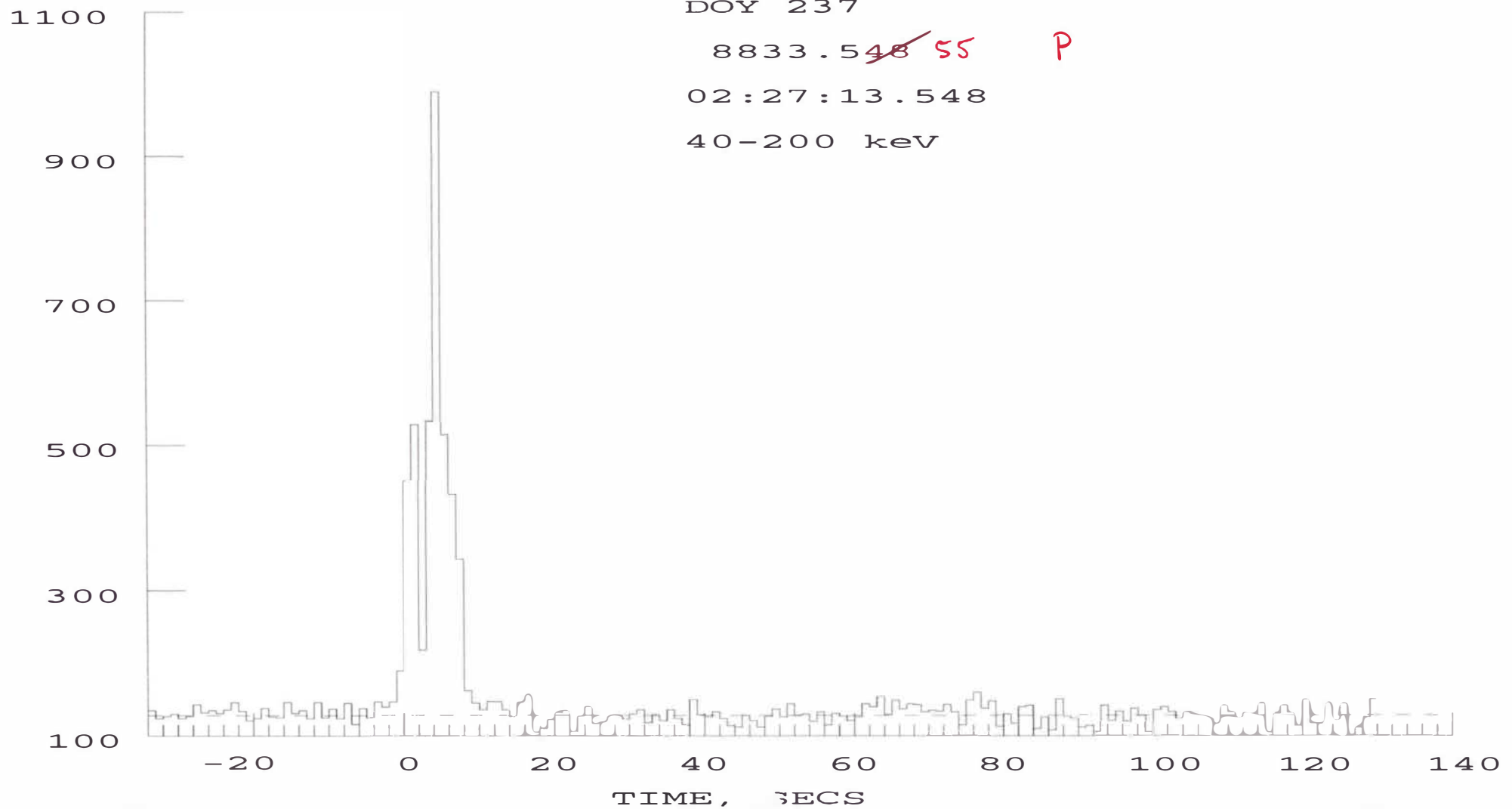
DOY 237

8833.5~~48~~55

P

02:27:13.548

40-200 keV



From ipn-bounces@ssl.berkeley.edu Thu Aug 25 13:41:29 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Fri, 26 Aug 2011 05:41:05 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: Martino Marisaldi <marisaldi@iasfbo.inaf.it>
Cc: ipn@ssl.berkeley.edu
Subject: Re: [Ipn] bright hard GRB 110825(A) (=Fermi/GBM trigger 335932012)
X-Ucb-Scan-Signature: a17adf4e8ff61c6bc66b013c0c7fc0be7fe4f0ae
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.502'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Hi Martino,

This bright burst triggered the Suzaku WAM.

Best wishes,
Kazu

On Thu, 25 Aug 2011 10:16:55 +0200
Martino Marisaldi <marisaldi@iasfbo.inaf.it> wrote:

> Dear colleagues,
>
> AGILE MCAL triggered also on this GRB on 25/08/2011 at 02:27:03 UT, see the at
> This burst has been detected by Fermi/GBM and BAT.
>
> In attachment the ASCII light curve with 4ms time bin and ephemeris (92.711536

Best wishes,
> Martino
>
>
>
> =====
> Martino Marisaldi
> INAF / IASF
> Via P. Gobetti 101
> 40129 Bologna ITALY
>
> Phone: +39 051 6398662 +39 051 6398654
> Fax: +39 051 6398723
>
> marisaldi@iasfbo.inaf.it
> =====
>
> 'AGILEMCAL' '25/08/11' 8823.465552
> 330 2000000
> 1.30286 0.00400
> -0.500000 0.00000
> -0.496000 1.00000
> -0.492000 1.00000
> -0.488000 1.00000
> -0.484000 0.00000
> -0.480000 2.00000
> -0.476000 3.00000
> -0.472000 1.00000
> -0.468000 3.00000
> -0.464000 0.00000

Data Samples

Konus, Fermi, Swift,
WAM, Integral, Mess.

a : 10-1000 keV c : 20-5000 keV
b : 20-10000 keV d : 20-200 keV

No.	GRB	Fluence (erg/cm ²)	incident angle	Other Obs.	No.	GRB	Fluence (erg/cm ²)	incident angle	Other Obs.
1	100707A	^a 8.8 × 10 ⁻⁵	93	K,F,W,M	16	110124A		-	K,W
2	100715A		19	K,I,W,M	17	110301A	^a 3.7 × 10 ⁻⁵	48	K,F,W
3	100719B		145	K,F	18	110406A	^b 4.8 × 10 ⁻⁵	133	K,W,I,Sw
4	100722A		34	K,F	19	110423A		-	K
5	100804A		63	K,F	20	110428A	^a 2.3 × 10 ⁻⁵	109	K,F,W,Sw
6	100809A		-	K	21	110505?		-	?
7	100820A		34	K,F	22	110510?		-	?
8	100826A	^b 3.0 × 10 ⁻⁴	20	K,F,W,M	23	110514		-	K
9	101014A	^a 2.0 × 10 ⁻⁴	54	K,F	24	110604A	^c 3.1 × 10 ⁻⁵	43	K,W,Sw
10	101021A		41	K,F	25	110625A	^b 6.1 × 10 ⁻⁵	41	K,F,Sw
11	101113A		26	K,F	26	110708A	^d 2 × 10 ⁻⁶	67	K,F,Sw
12	101123A	^a 1.3 × 10 ⁻⁴	74	K,F,I,Sw	27	110715A	^b 2.3 × 10 ⁻⁵	88	K,W,Sw
13	101126A		62	K,F	28	110717B		25	F,K
14	101219A	^b 3.0 × 10 ⁻⁶	52	K,Sw	29	110721A	^a 3.5 × 10 ⁻⁵	30	K,F,I,M
15	101231A		63	F	30	110825A	^a 5.4 × 10 ⁻⁵	29	

GLAST

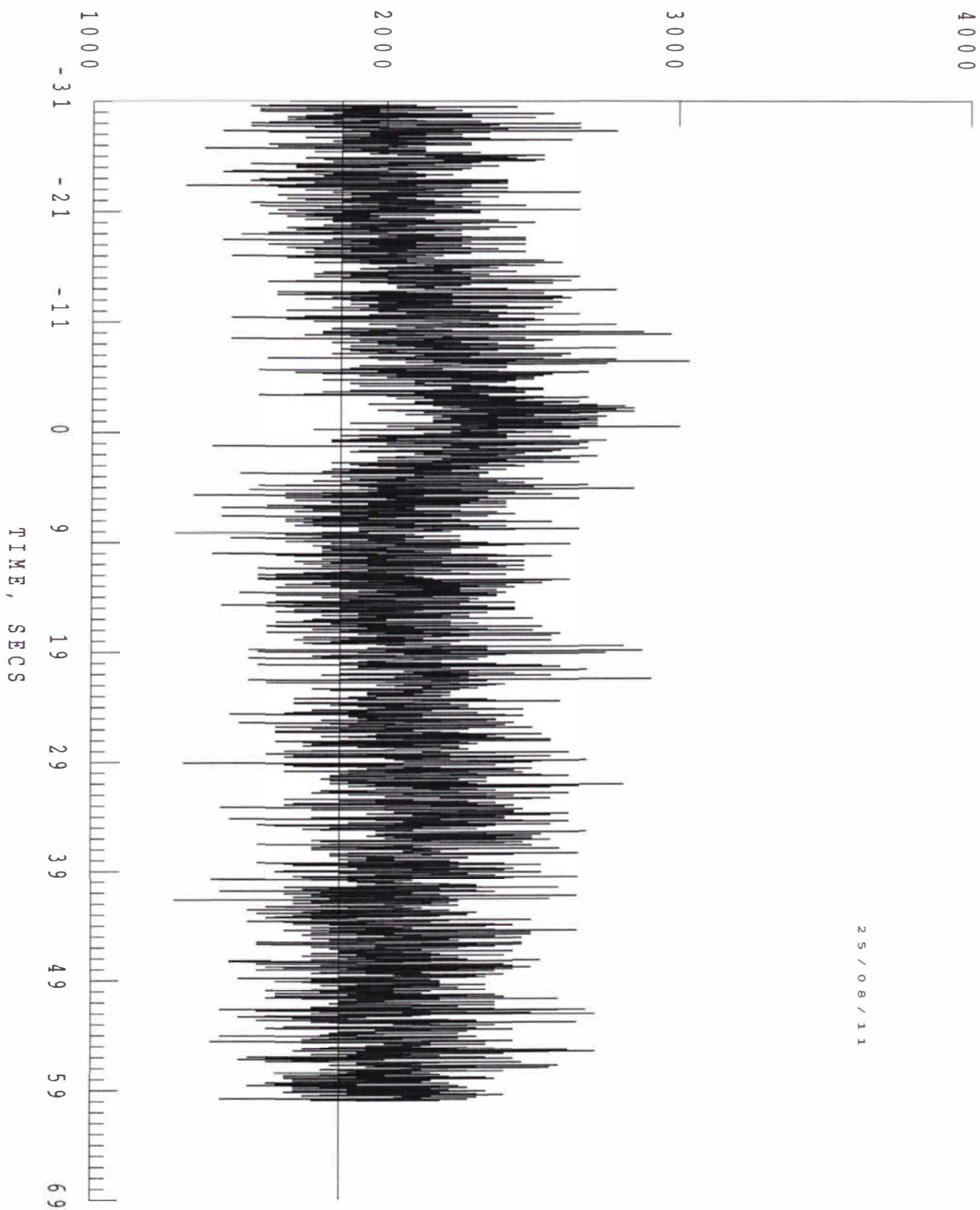
25/08/11

22931.439

26- 293 keV

251.31

COUNTS/0.032 S

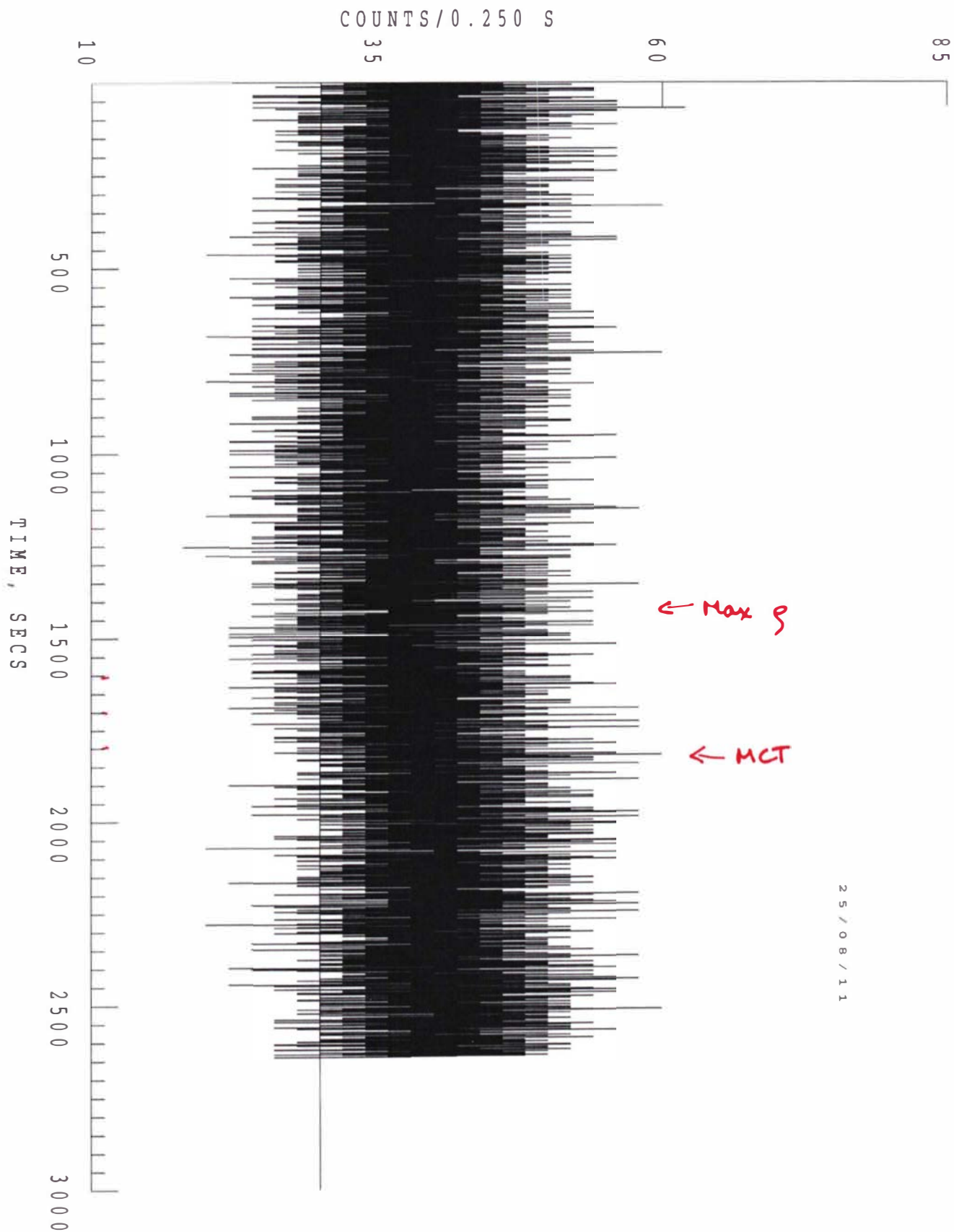


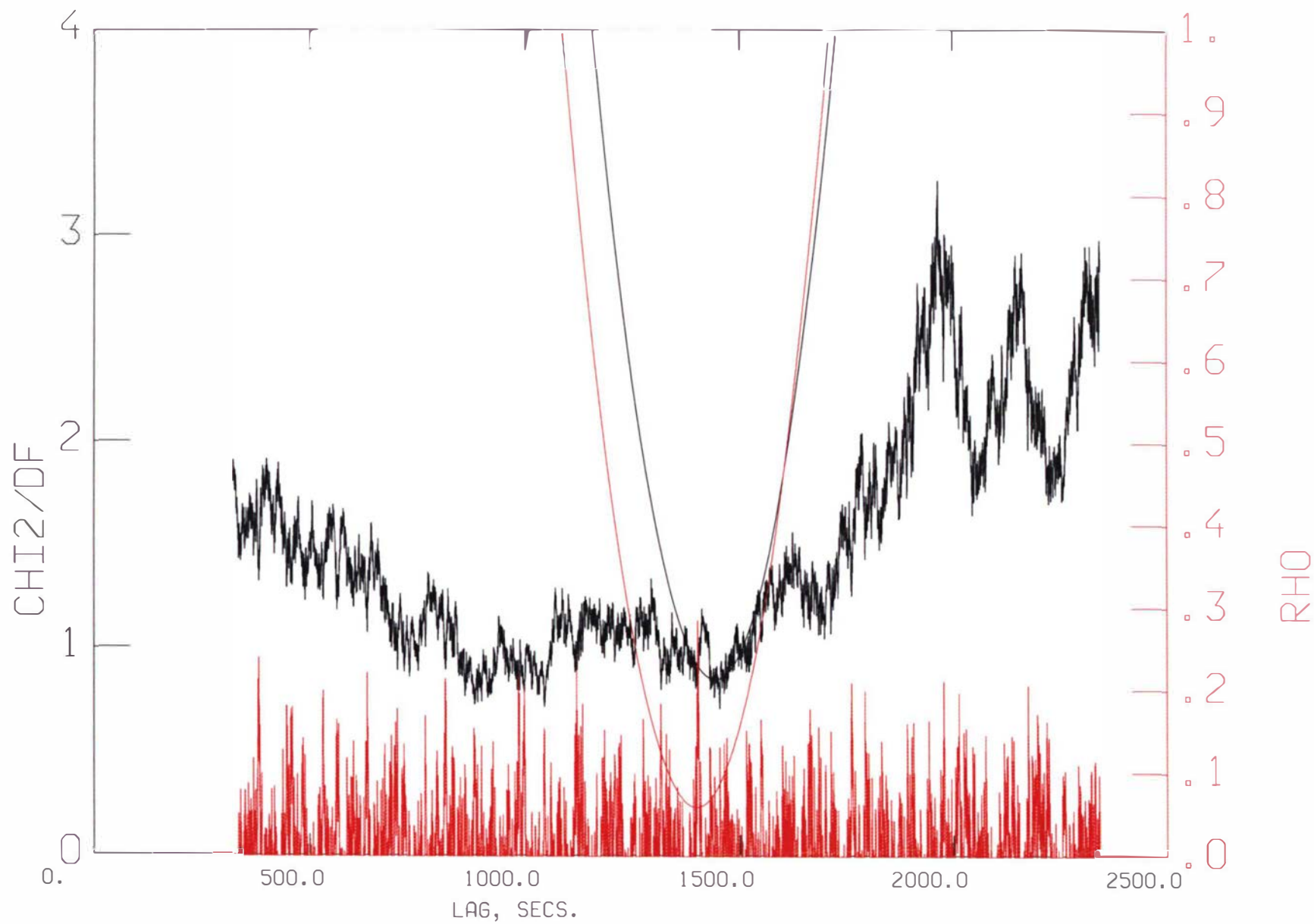
MS01

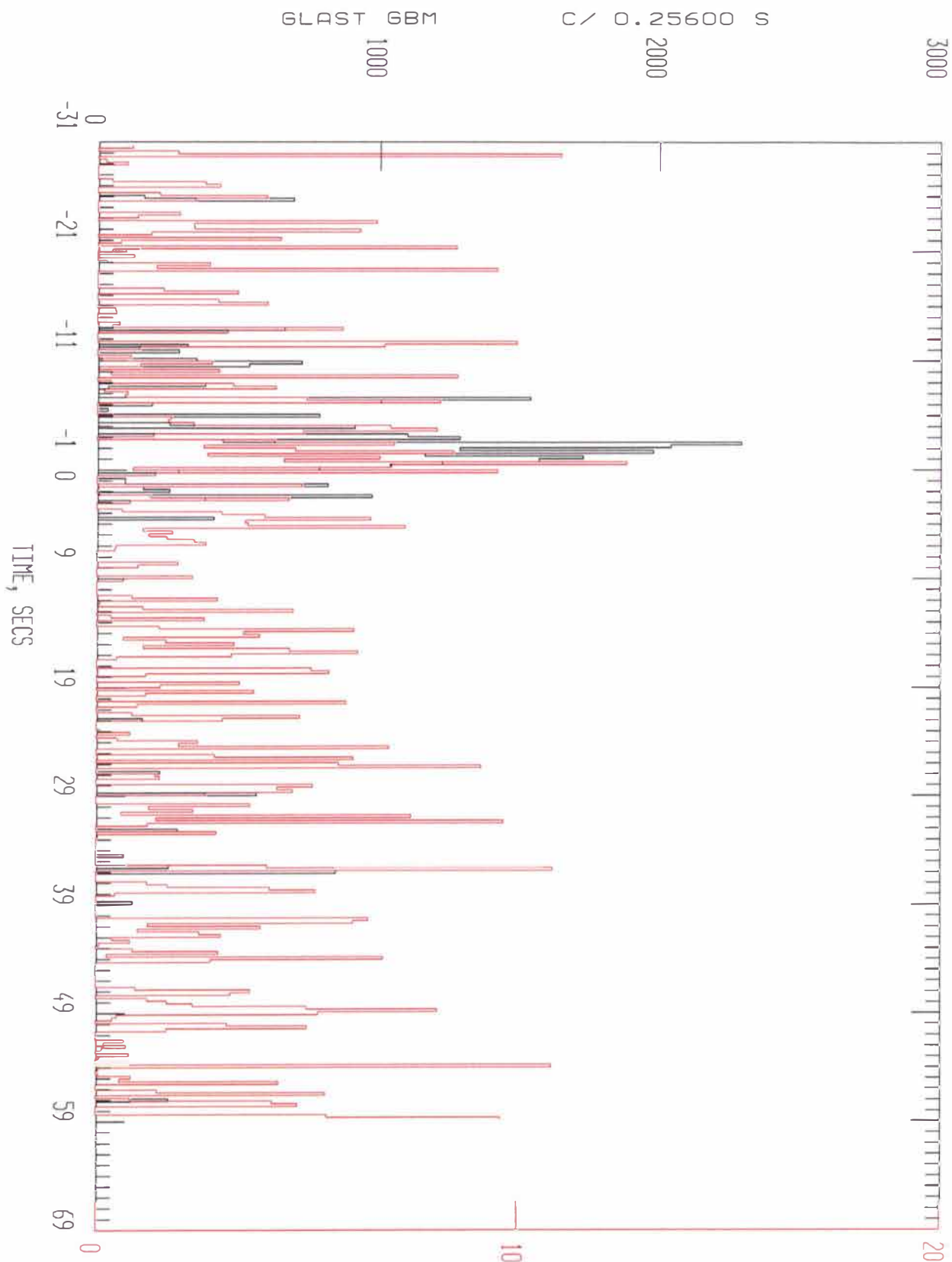
25/08/11

21599.463

50 - 3000 keV







From williams@gammaburst.ssl.berkeley.edu Thu Aug 25 23:13:32 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Thu, 25 Aug 2011 23:12:50 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>

To: khurley@ssl.berkeley.edu

Subject: No RHESSI data for GLAST 20110825_22931

X-Ucb-Scan-Signature: c14eac8ab79920d038e402a5c1bc1f9cda0b2024

X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.502'

X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts

Created 25-Aug-2011 23:13:30.00

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

Subject: [lpn] BAT lightcurve for trigger at 110825_0622

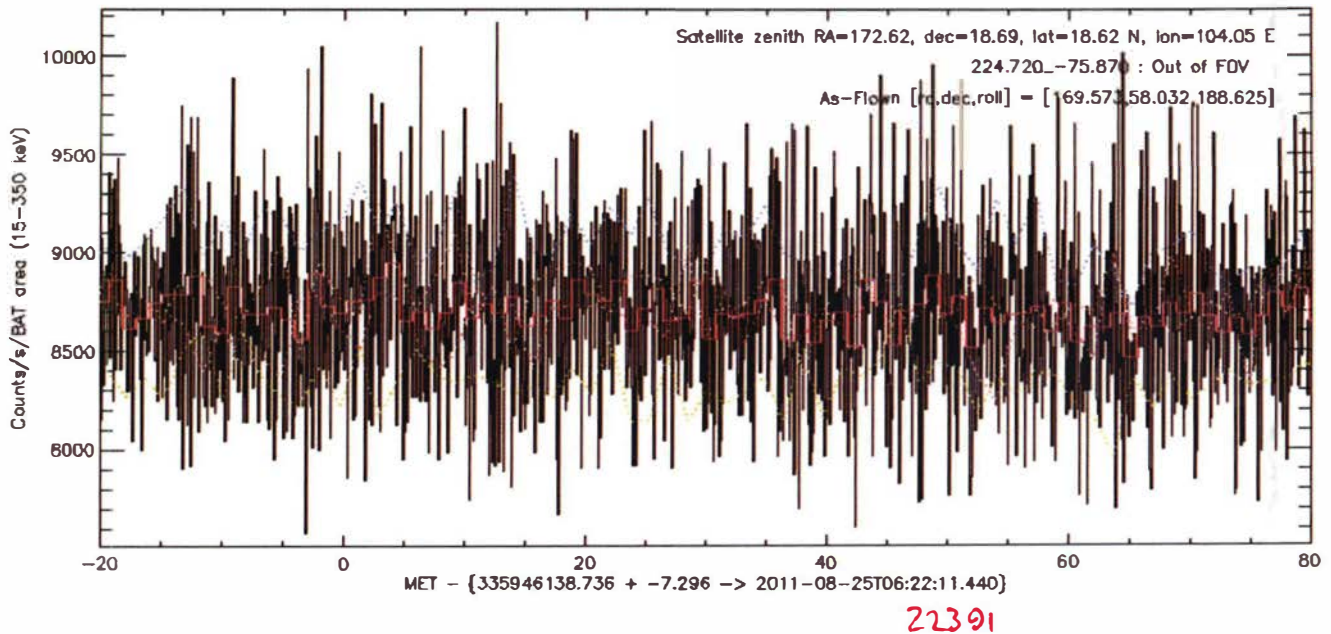
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 25 Aug 2011 13:09:10 -0600 (MDT)

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

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

/tmp/110825_0622.png



```
% /usr/local/bin/swinfo -o 335946138.736 -s 218.483_-78.283
Time(MET + UTCF -> UT): 335946138.736 + -7.296 -> 2011-08-25T06:22:11.440
Swift Zenith(RA,dec): 172.62, 18.69
Swift Location(lon,lat,alt): 104.05 E, 18.62 N, 592 km
Obs Sequence Number: 00032040012
Obs Target Name: PSN in NGC3613
Obs Date and Times: 2011-08-25 06:09:54 - 06:24:50
Obs Pointing(ra,dec,roll): 169.573, 58.032, 188.62
218.483_-78.283_imageloc (boresight_dist, angle): (139, -112)
218.483_-78.283_exposure (cm^2 cos adjusted): 0
218.483_-78.283_altitude: 13 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 335946138.736 -s 224.720_-75.870
Time(MET + UTCF -> UT): 335946138.736 + -7.296 -> 2011-08-25T06:22:11.440
Swift Zenith(RA,dec): 172.62, 18.69
Swift Location(lon,lat,alt): 104.05 E, 18.62 N, 592 km
Obs Sequence Number: 00032040012
Obs Target Name: PSN in NGC3613
Obs Date and Times: 2011-08-25 06:09:54 - 06:24:50
Obs Pointing(ra,dec,roll): 169.573, 58.032, 188.62
224.720_-75.870_imageloc (boresight_dist, angle): (138, -116)
224.720_-75.870_exposure (cm^2 cos adjusted): 0
224.720_-75.870_altitude: 14 (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>

/tmp/110825_0622_bat64ms_ipn	Content-Type: application/octet-stream
------------------------------	--

Content-Encoding: base64

/tmp/110825_0622.png

/tmp/110825_0622.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

08/08/11

MESSENGER

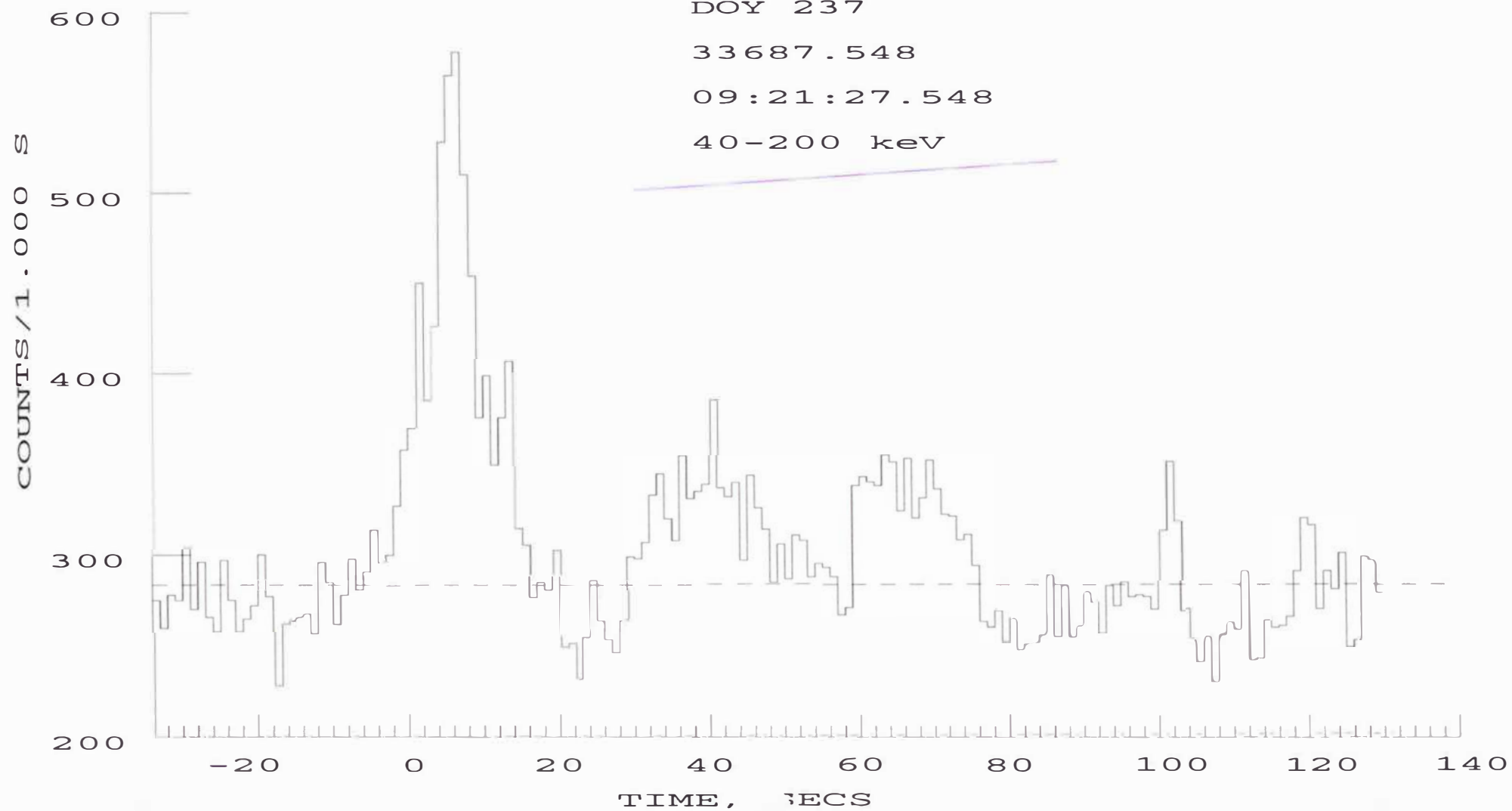
25/08/11

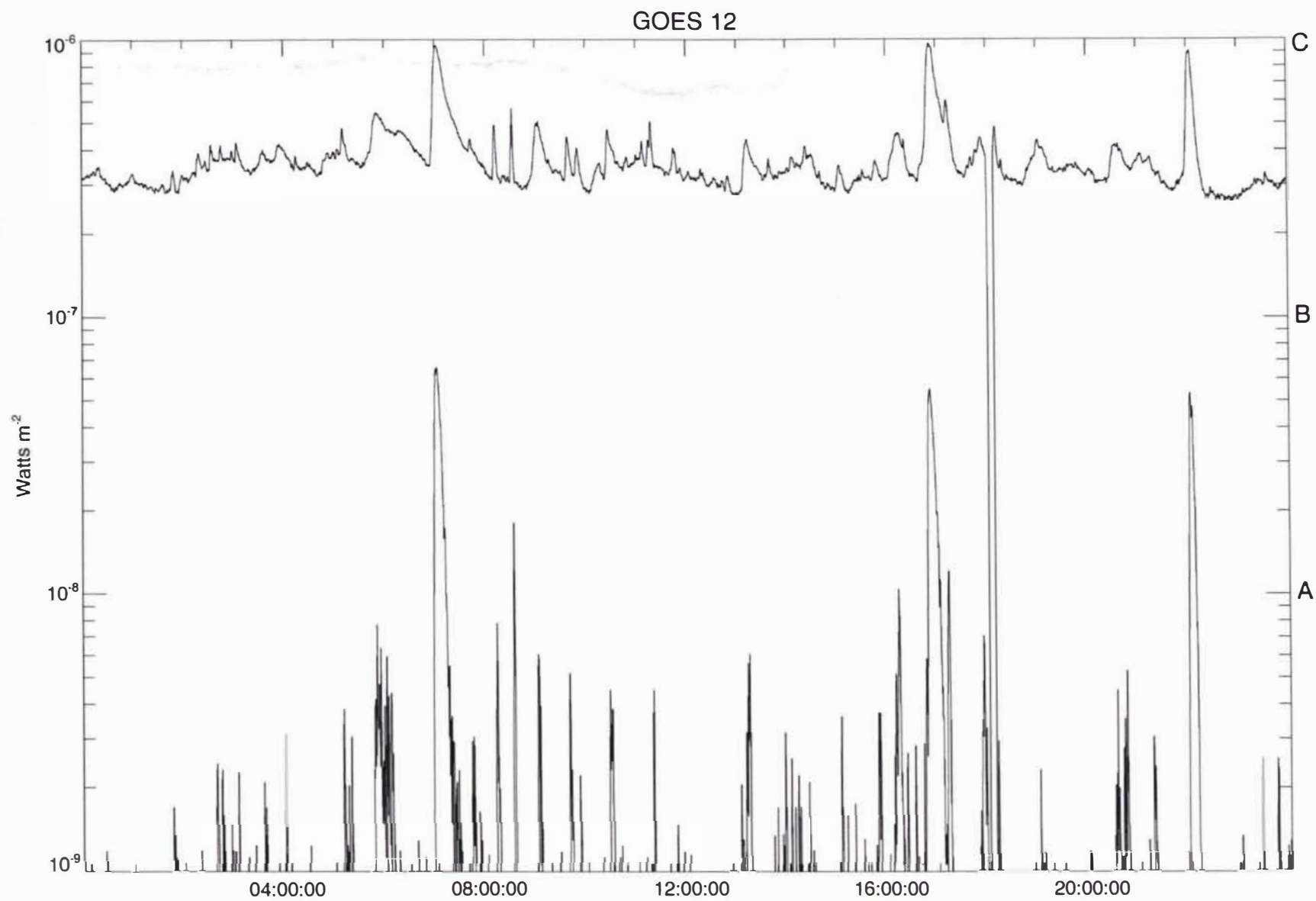
DOY 237

33687.548

09:21:27.548

40-200 keV





Data Start: 11/08/25, 0000:09

Plot created: 11/08/28, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

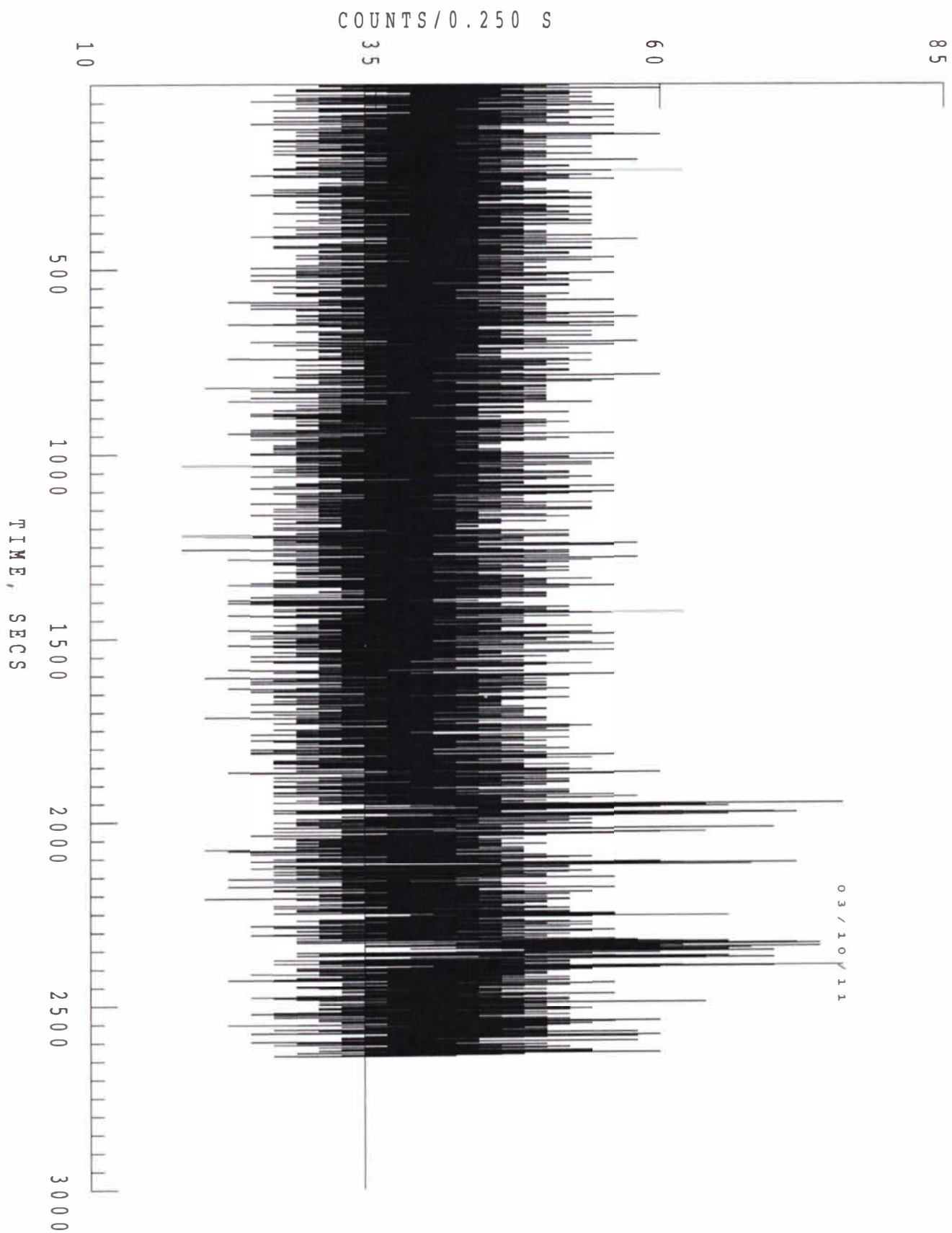
Sample average = 10

MS01

26/08/11

84297.331

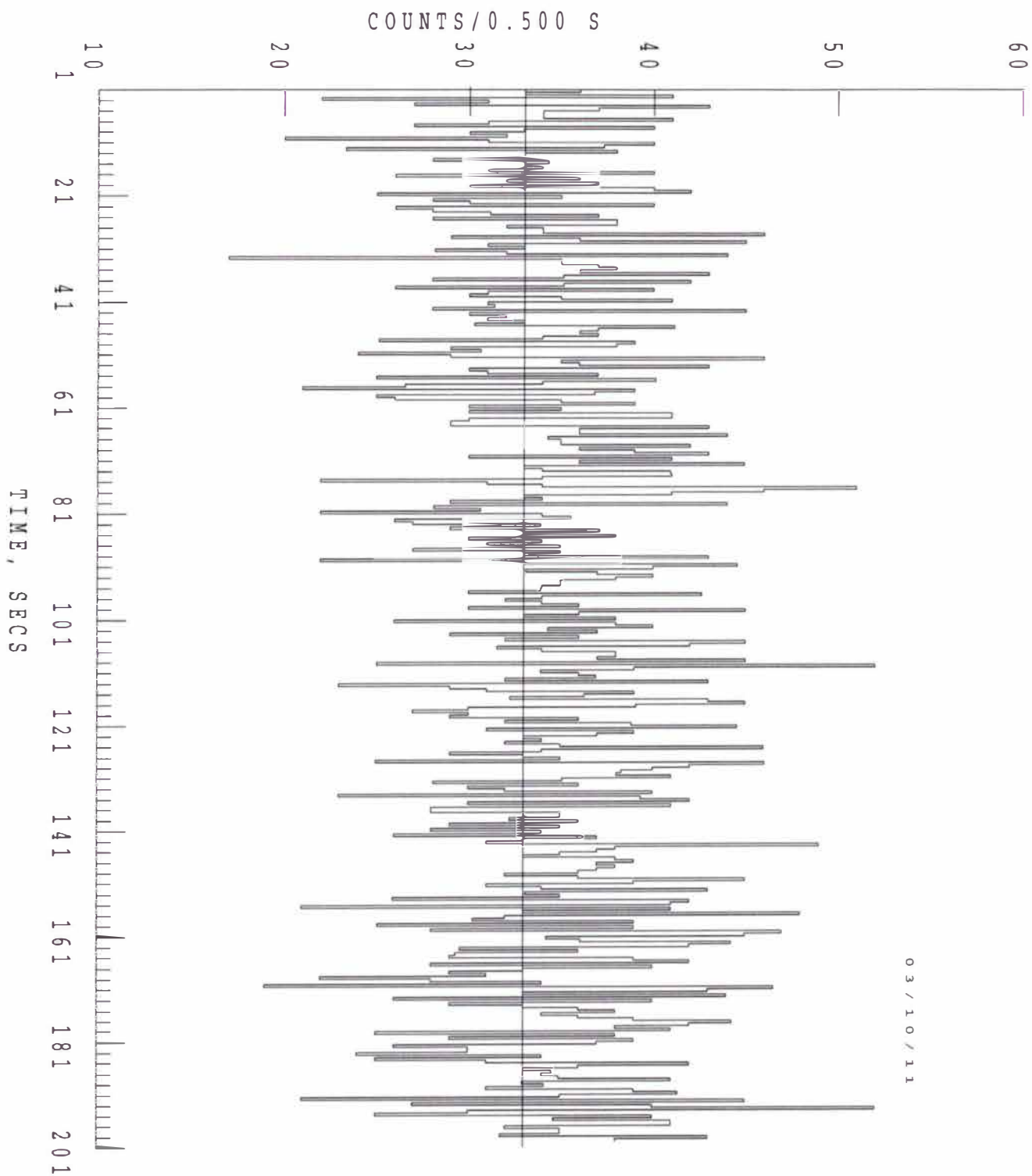
50 - 3000 keV

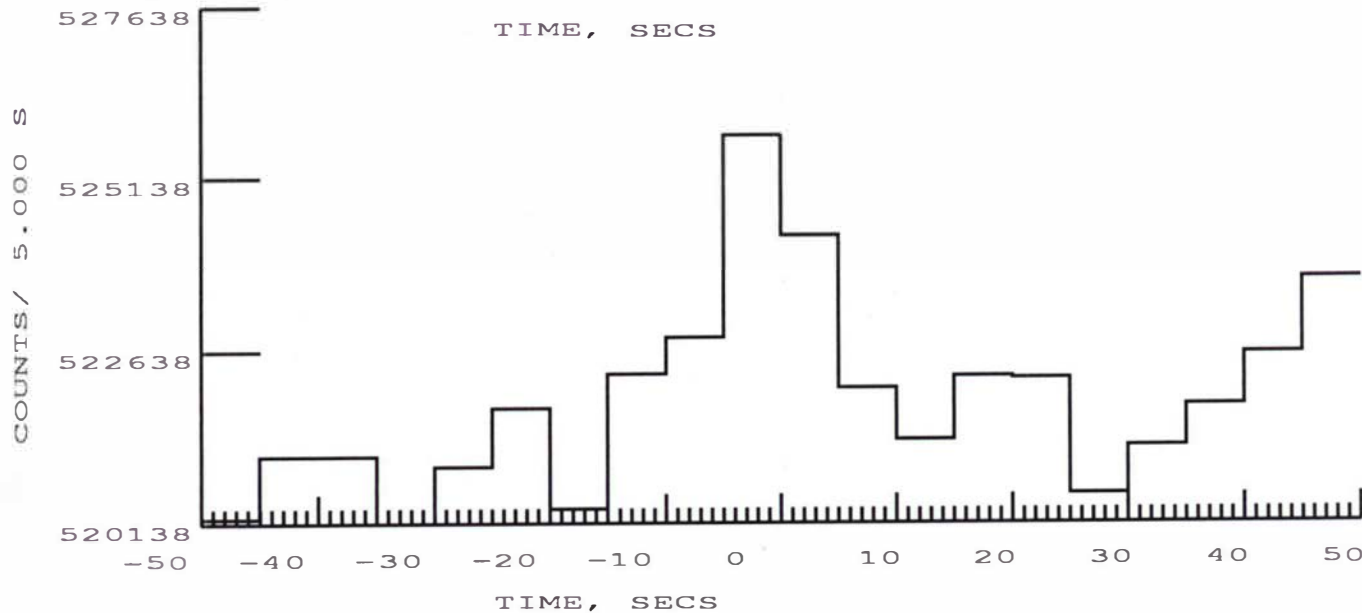
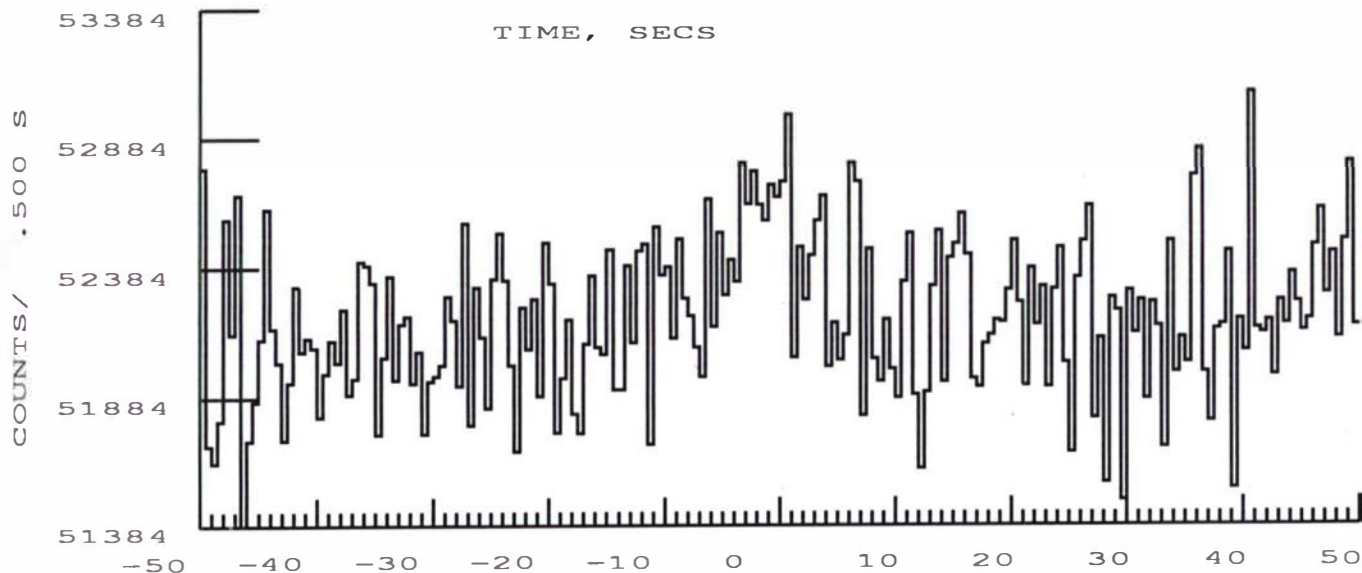
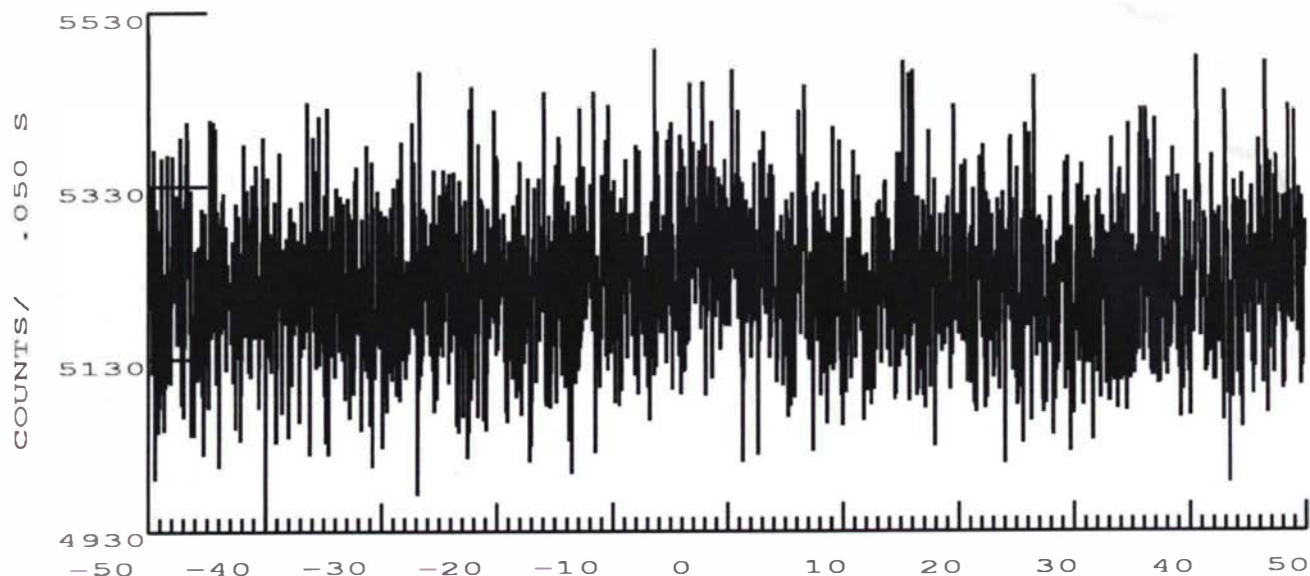


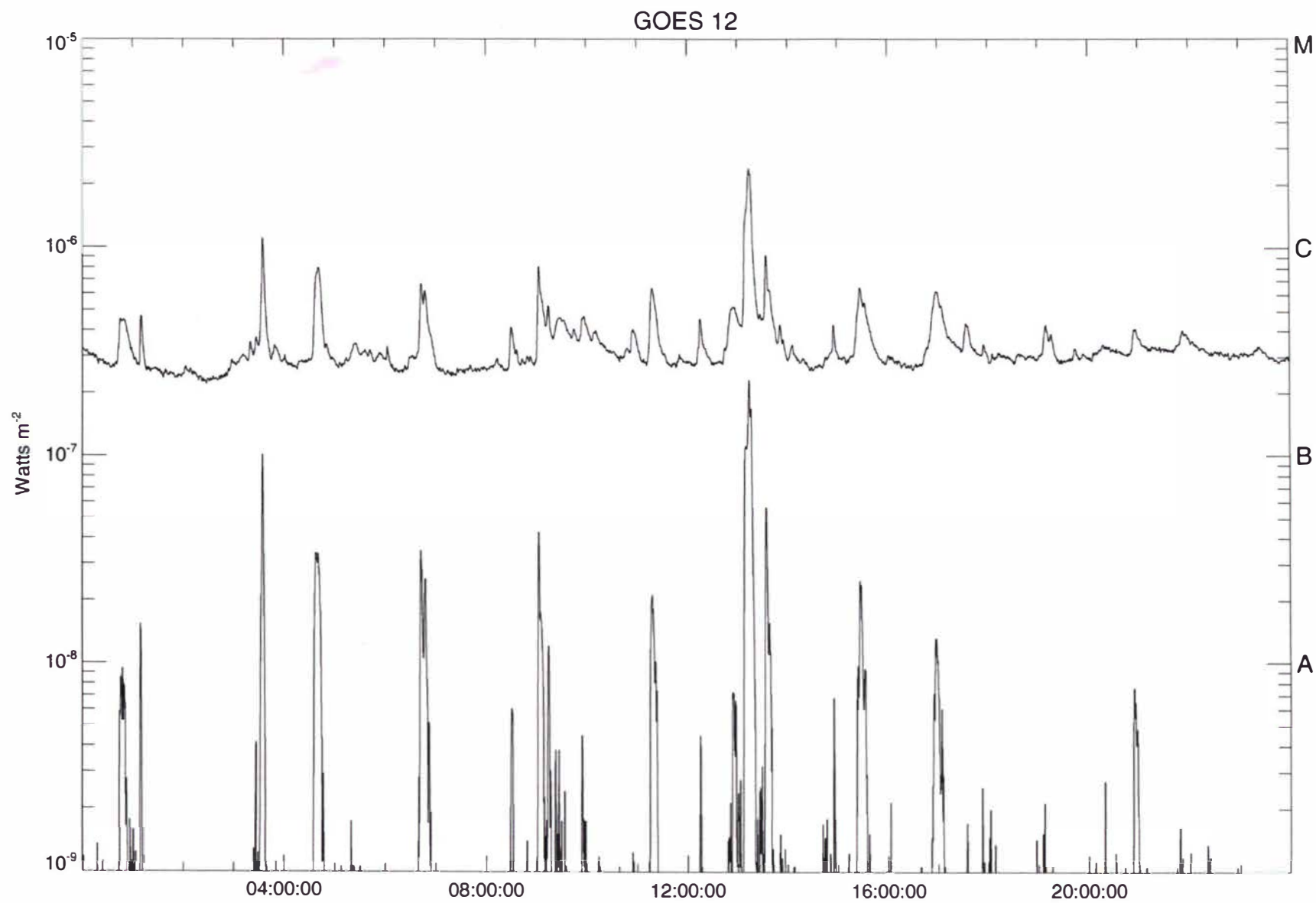
HESSI

26/08/11 85554.000 (KONUS_RI_20110826_85654)

25- 150 keV







Data Start: 11/08/26, 0000:09

Plot created: 11/08/29, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

From vxw@capella2.gsfc.nasa.gov Fri Aug 26 17:04:28 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Fri, 26 Aug 2011 20:05:44 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 6ac85233c194249125536d85b3437ba51600ad88
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.541'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE

NOTICE_DATE: Sat 27 Aug 11 00:05:42 UT

NOTICE_TYPE: Swift-BAT GRB Lightcurve

TRIGGER_NUM: 501520, Seg Num: 0

GRB_RA: 164.095d {+10h 56m 23s} (J2000),
164.268d {+10h 57m 04s} (current),
163.347d {+10h 53m 23s} (1950)

GRB_DEC: +53.787d {+53d 47' 13"} (J2000),
+53.725d {+53d 43' 29"} (current),
+54.054d {+54d 03' 15"} (1950)

GRB_DATE: 15800 TJD; 239 DOY; 11/08/27

GRB_TIME: 112.50 SOD {00:01:52.50} UT

TRIGGER_INDEX: 298

GRB_PHI: -140.13 [deg]

GRB_THETA: 10.75 [deg]

DELTA_TIME: 20.00 [sec]

TRIGGER_DUR: 4.096 [sec]

SOLN_STATUS: 0x3

RATE_SIGNIF: 9.59 [sigma]

MAGE_SIGNIF: 7.19 [sigma]

LC_URL: sw00501520000msb.lc

SUN_POSTN: 155.32d {+10h 21m 18s} +10.26d {+10d 15' 29"}
SUN_DIST: 44.05 [deg] Sun_angle= -0.6 [hr] (East of Sun)

MOON_POSTN: 126.00d {+08h 24m 01s} +15.74d {+15d 44' 38"}
MOON_DIST: 48.25 [deg]

MOON_ILLUM: 6 [%]

GAL_COORDS: 153.47, 55.98 [deg] galactic lon,lat of the burst (or transient

ECL_COORDS: 140.43, 42.52 [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 = 180.61,17.97 [deg]

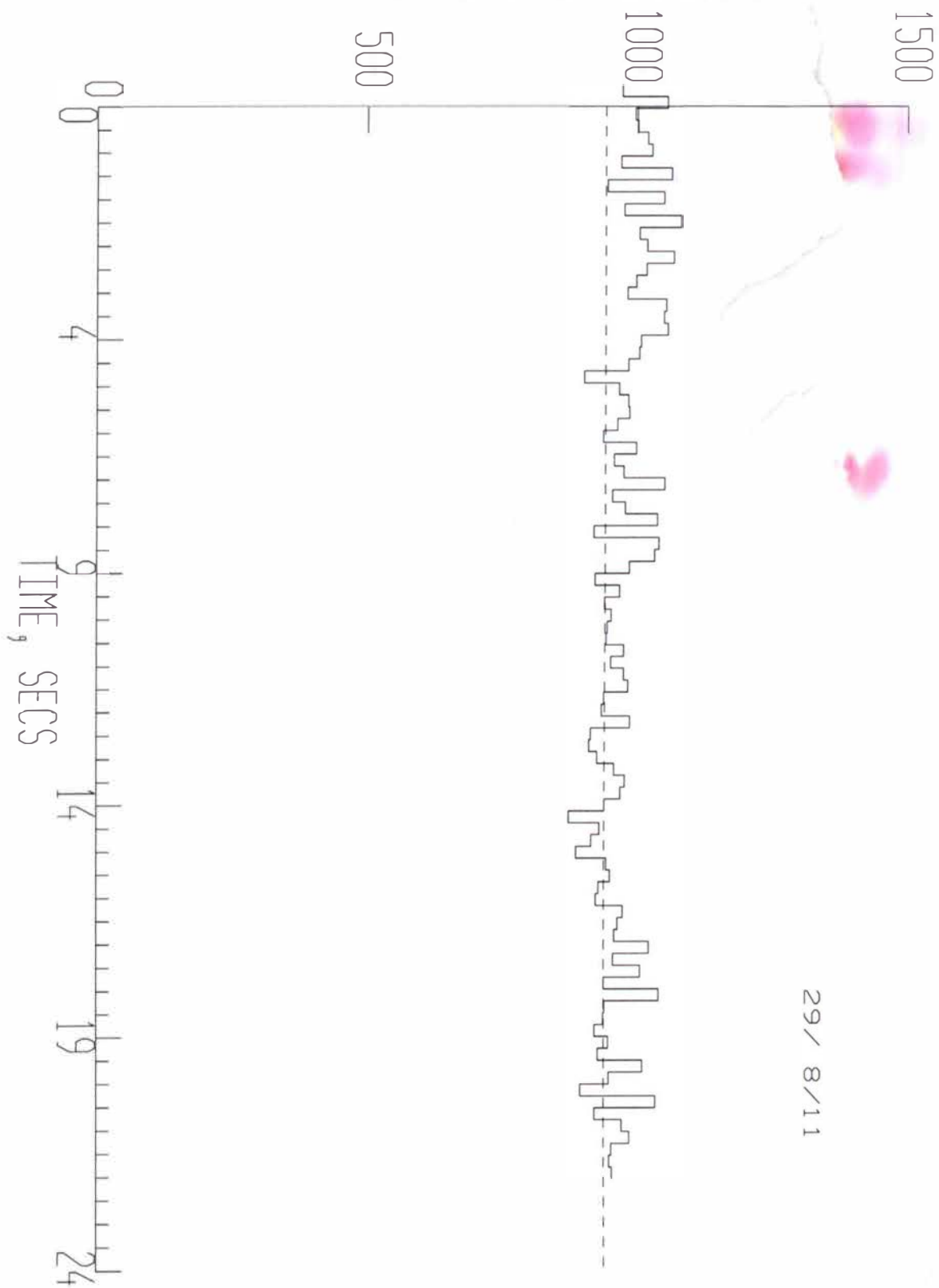
8.5 s

1.8×10^{-7}

0.4 phot/s

SWIFT 27/08/11 112.506
25- 100 keV

COUNTS/0.256 S



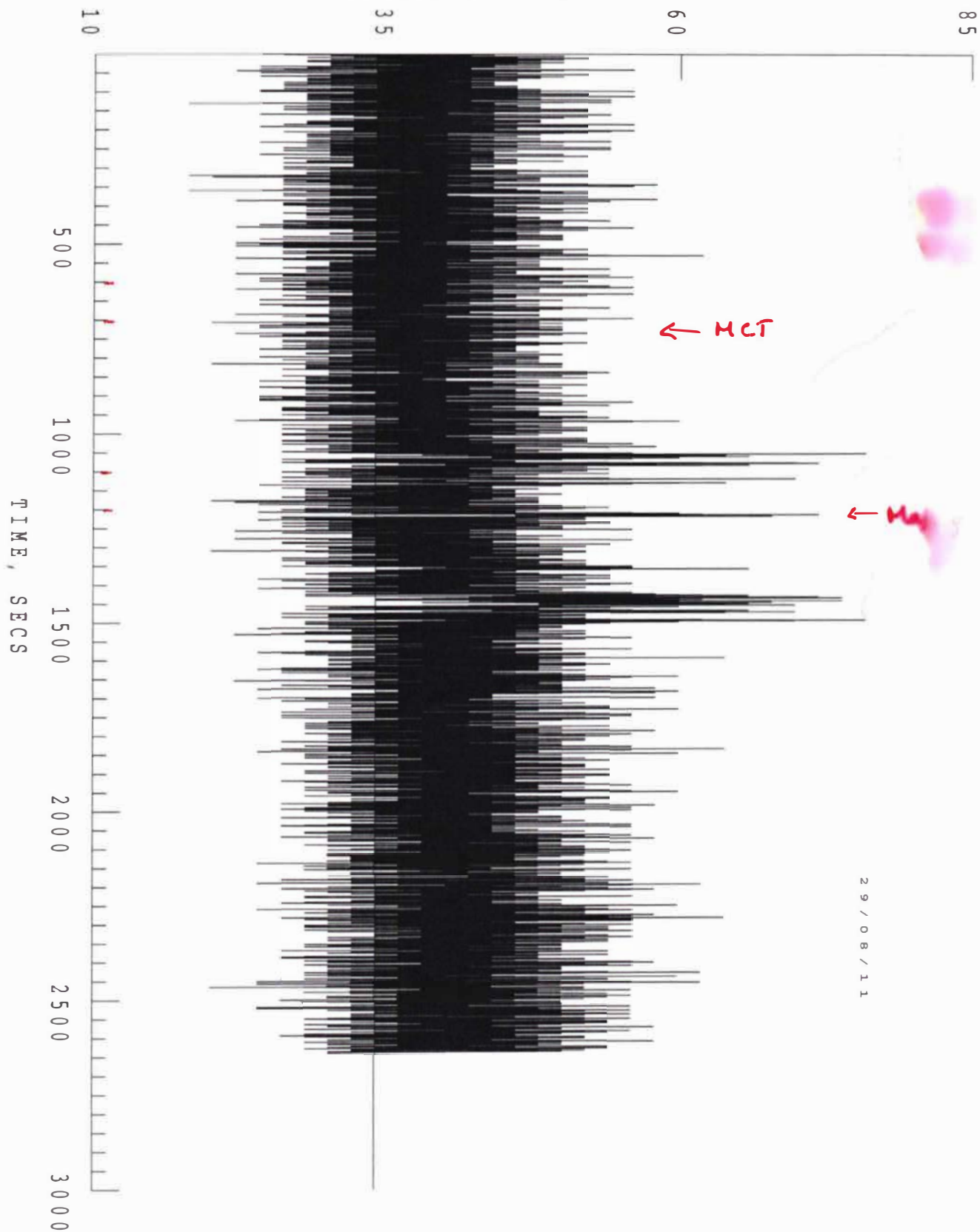
MS01

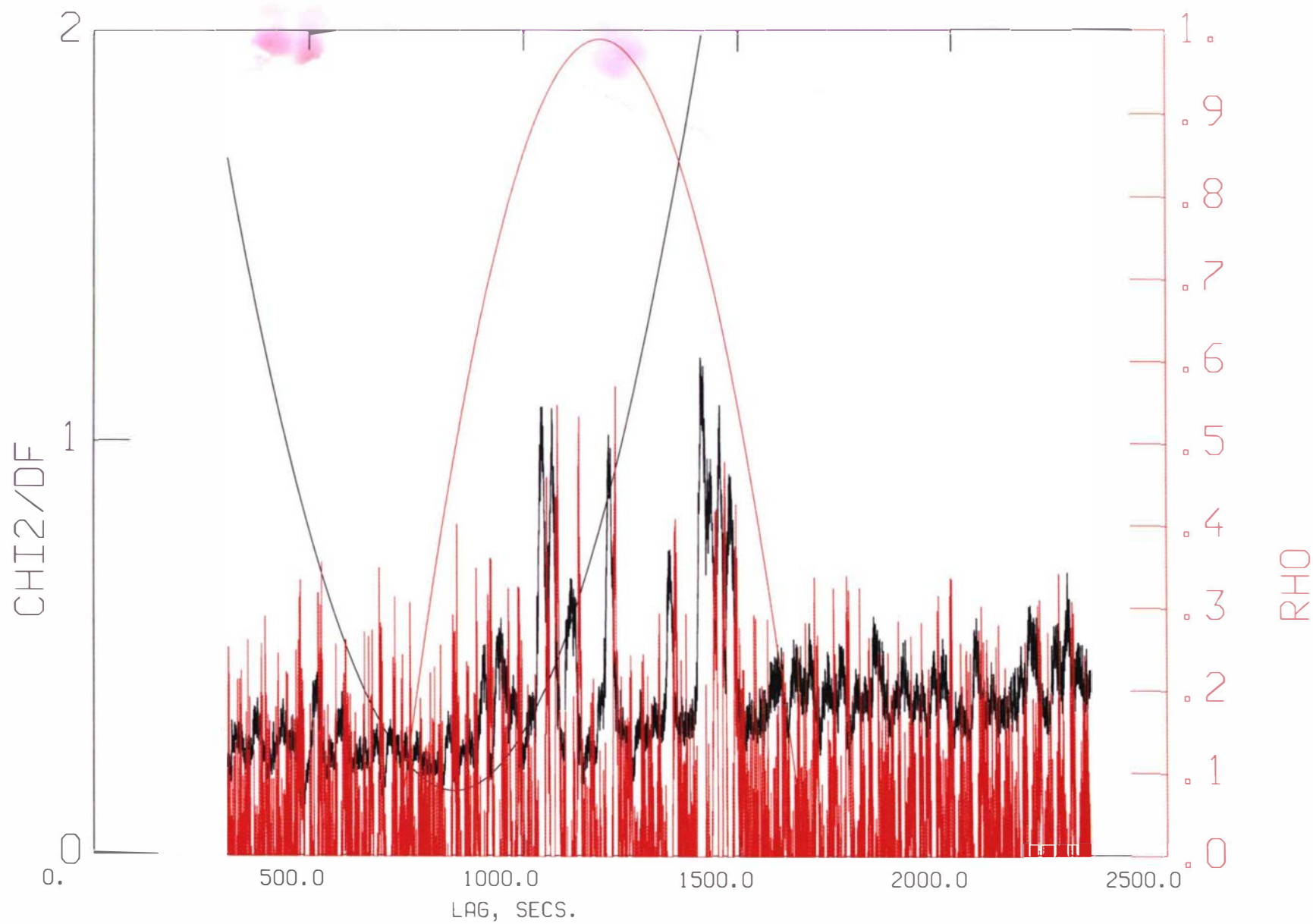
26/08/11

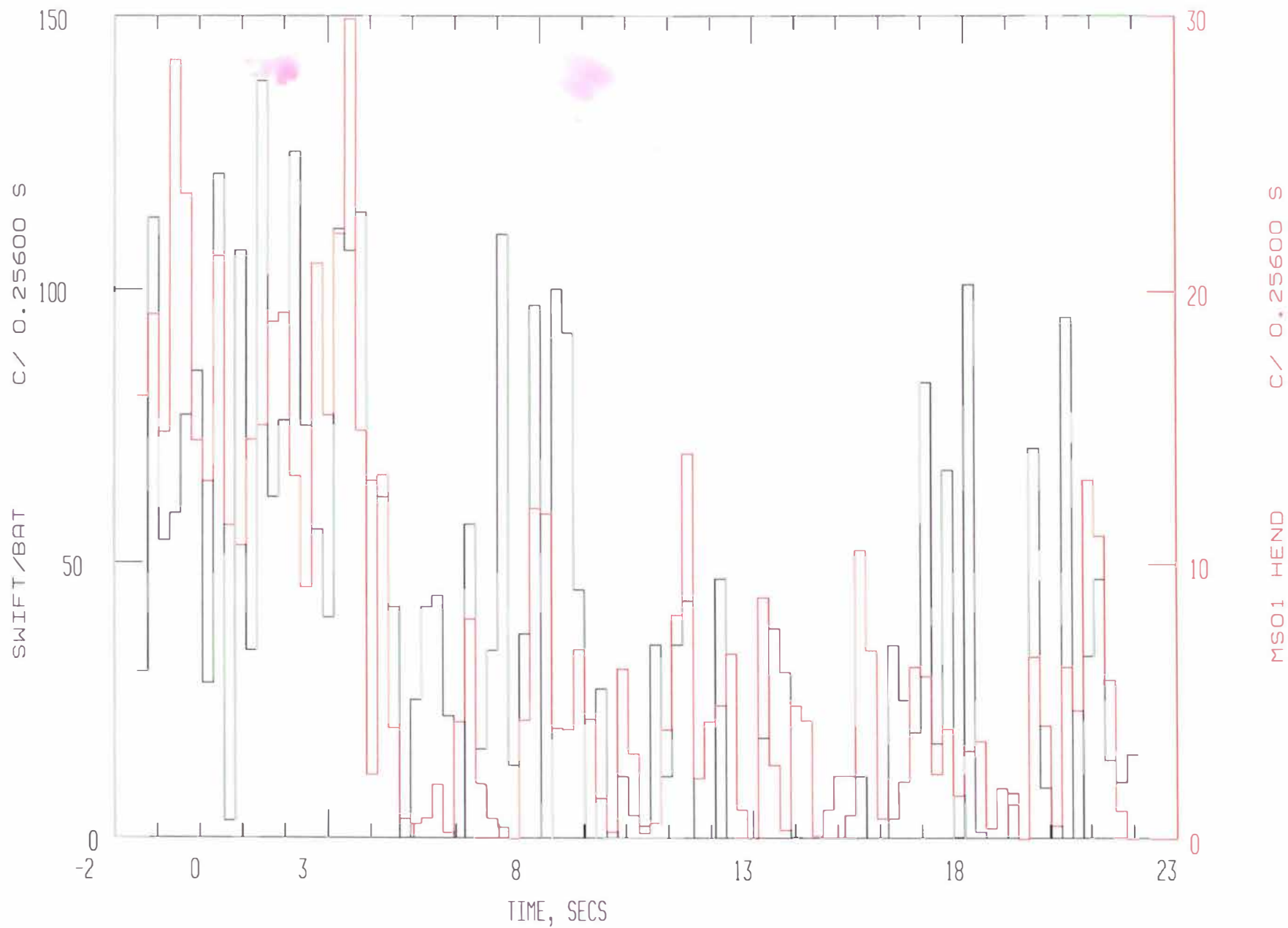
85197.422

50 - 3000 keV

COUNTS/0.250 S





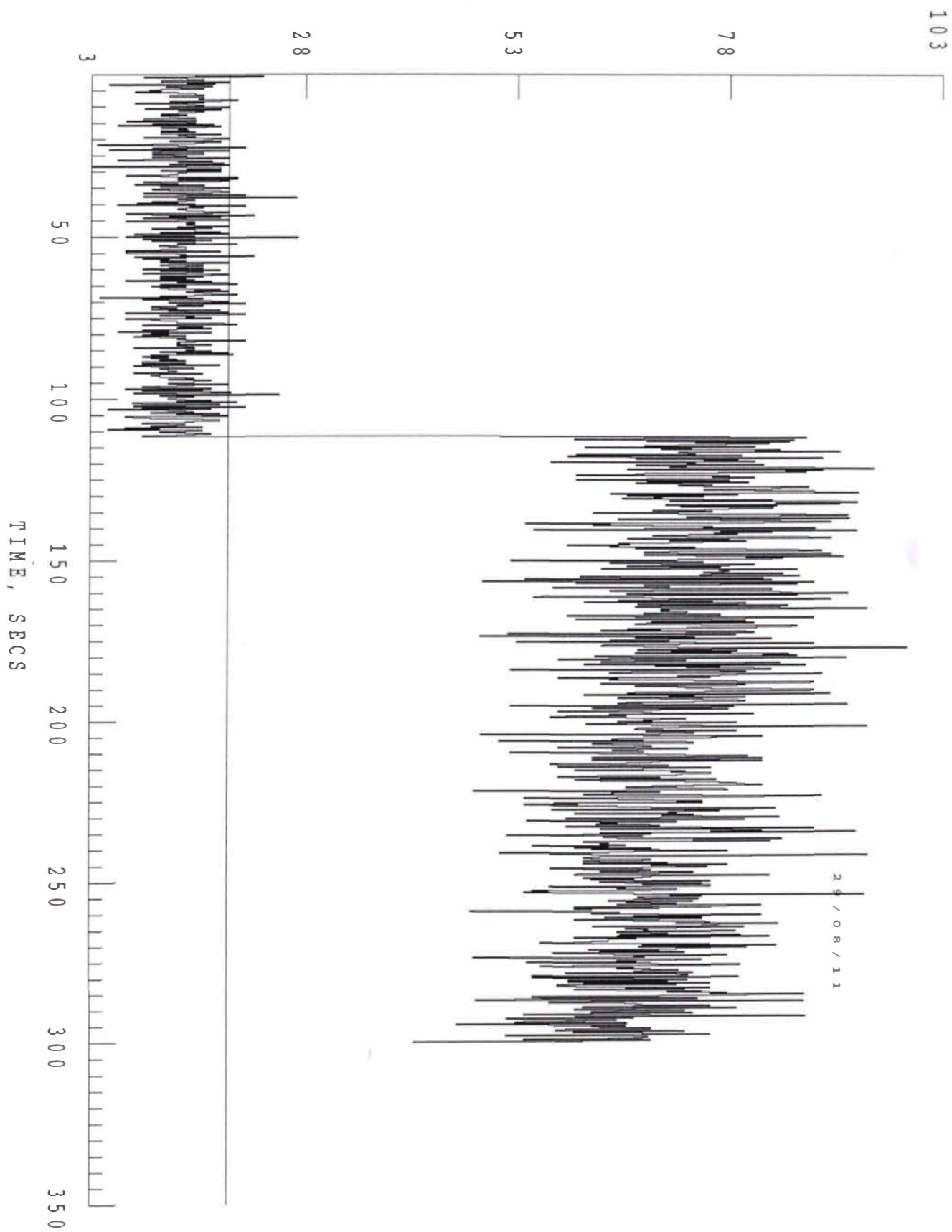


HESSI

26/08/11 86362.000 (SWIFT_20110827_00112)

25- 150 keV

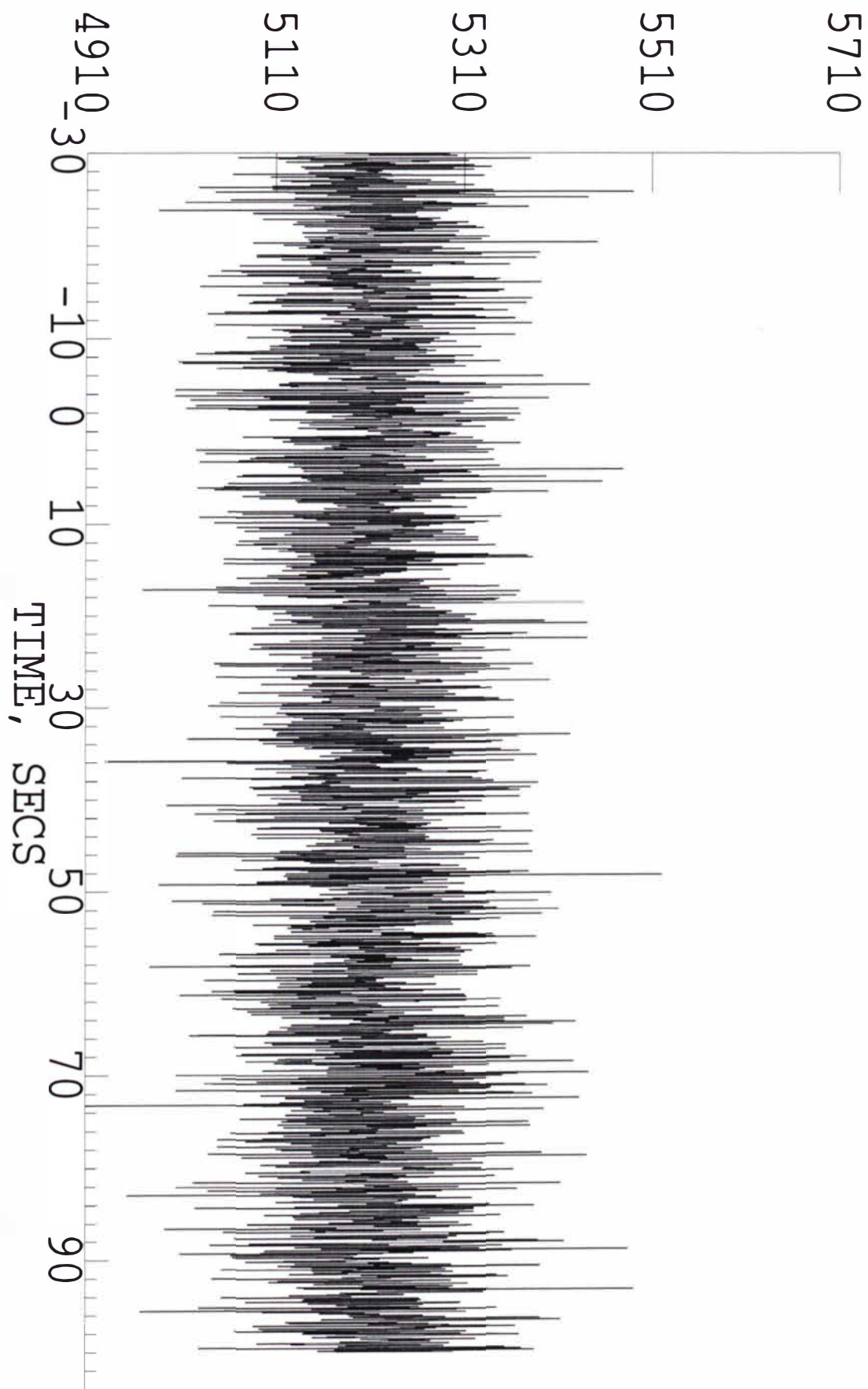
COUNTS/0.250 S

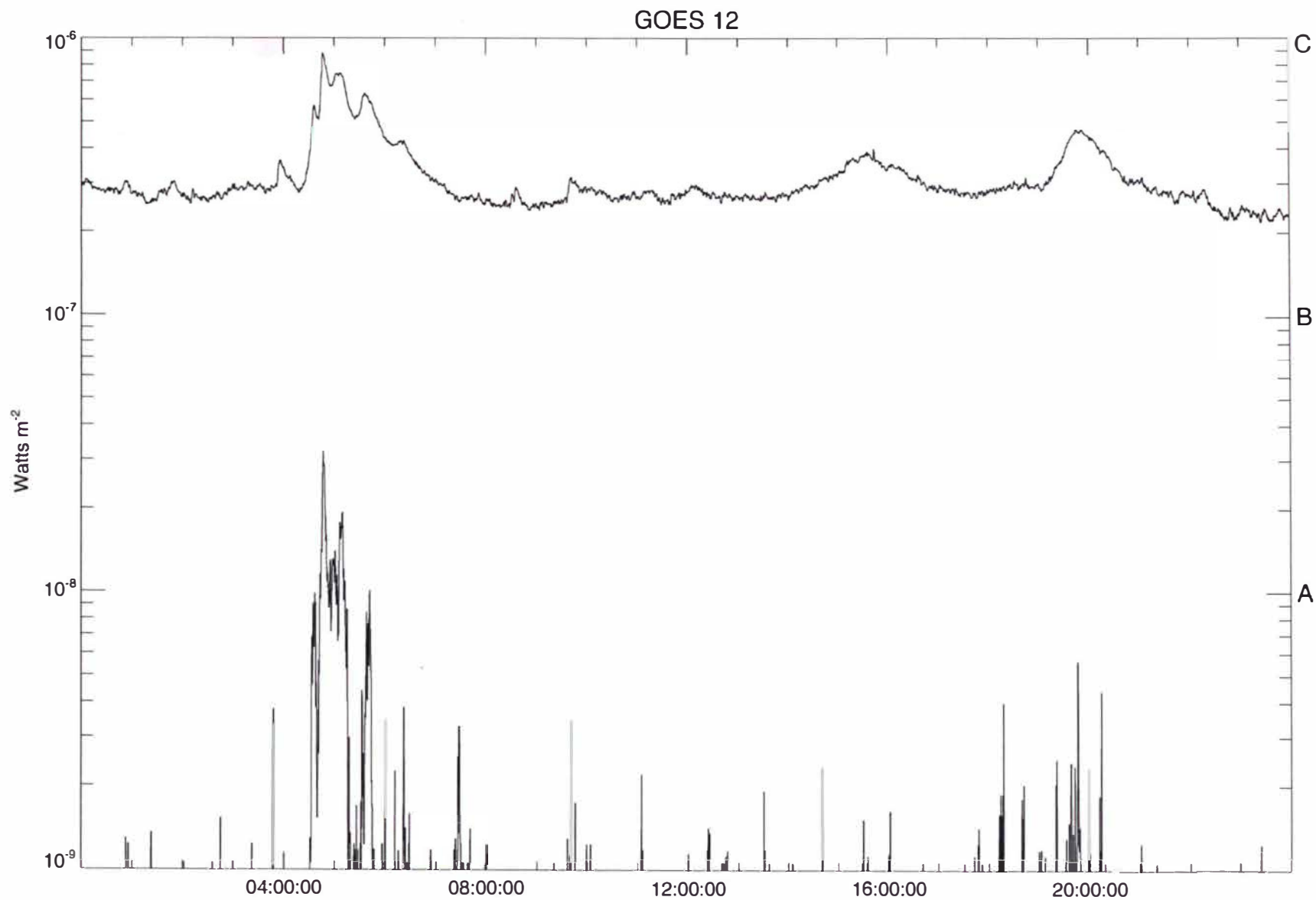


INTEGRAL 27/08/11 112.019 00:01:52.0

100-10000 keV

COUNTS/ .050 S





Data Start: 11/08/27, 0000:09

Plot created: 11/08/30, 0835

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: _____

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?

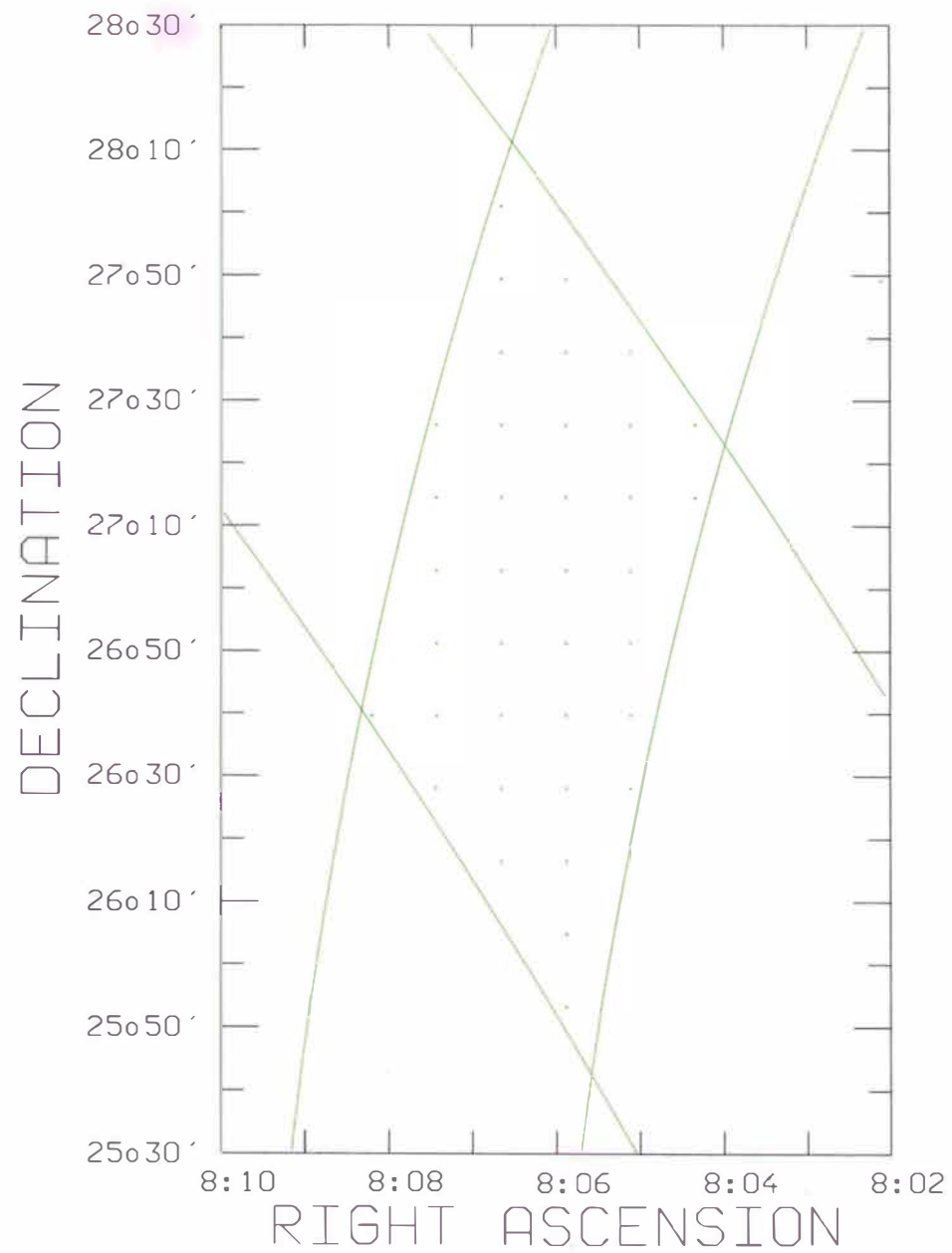
6. For 3 or More Spacecraft events

- ☒ $\Sigma 3\Delta t$'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>)

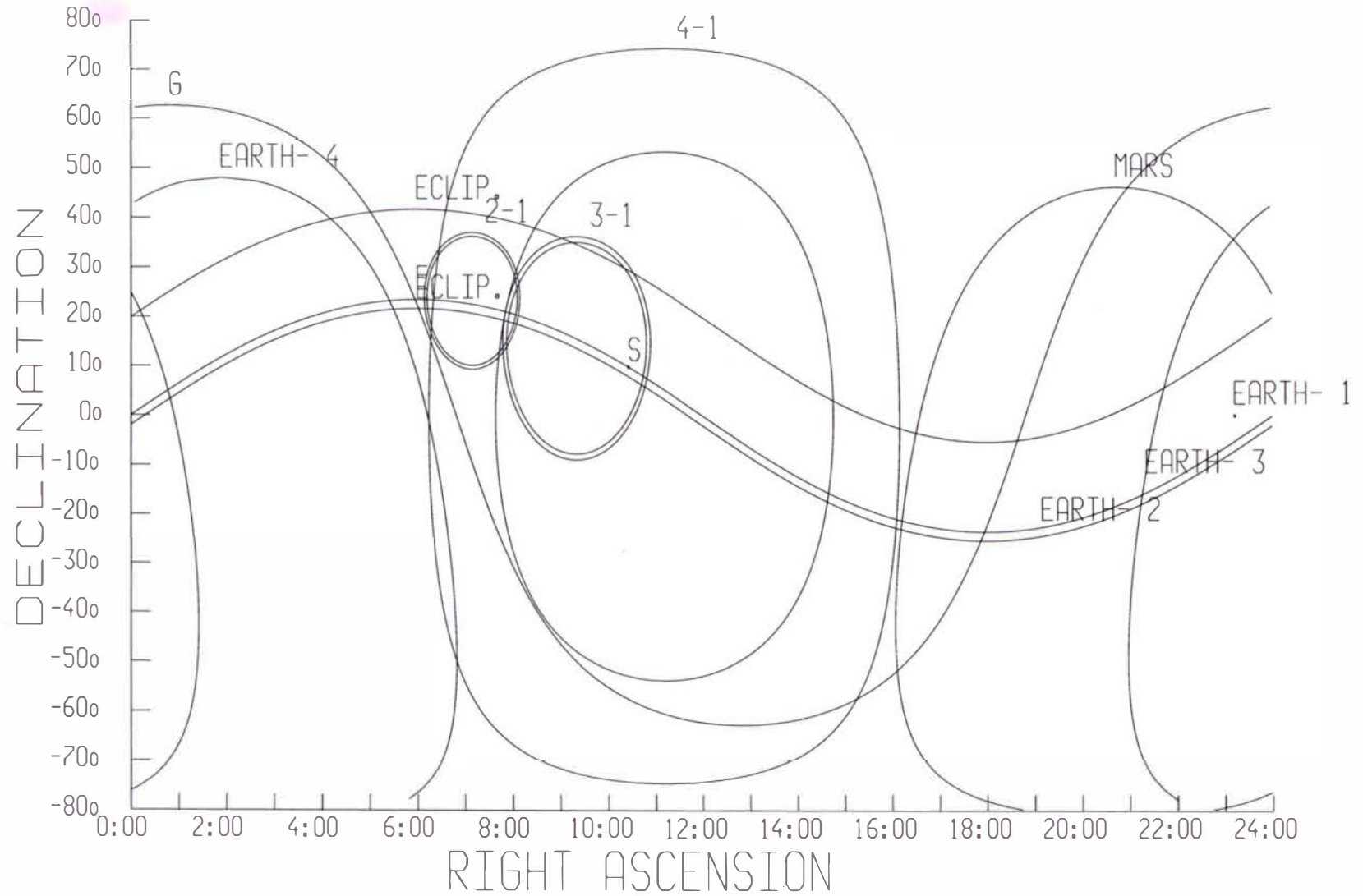
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

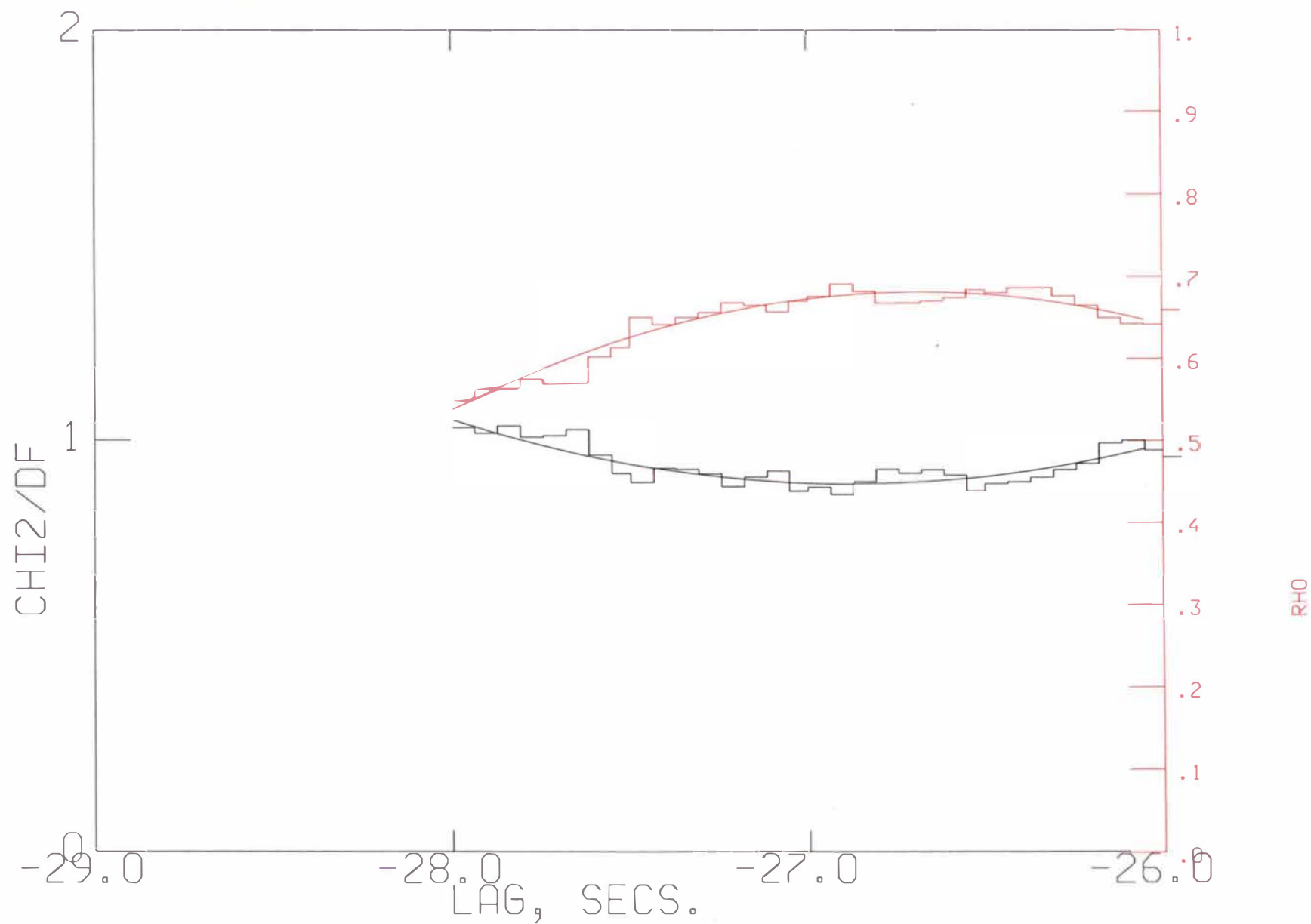


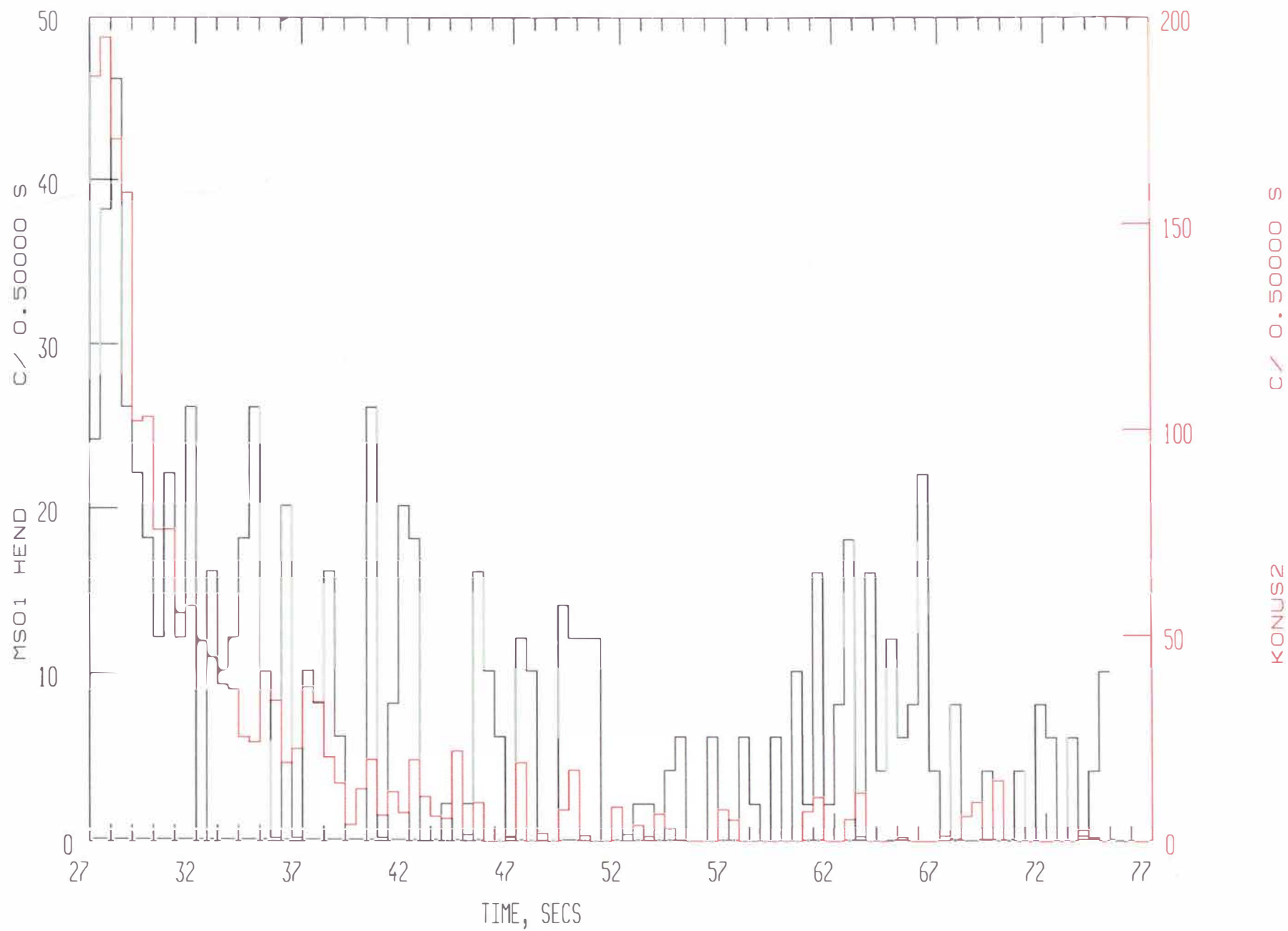
EVENT OF AUG 28, 2011 5:09

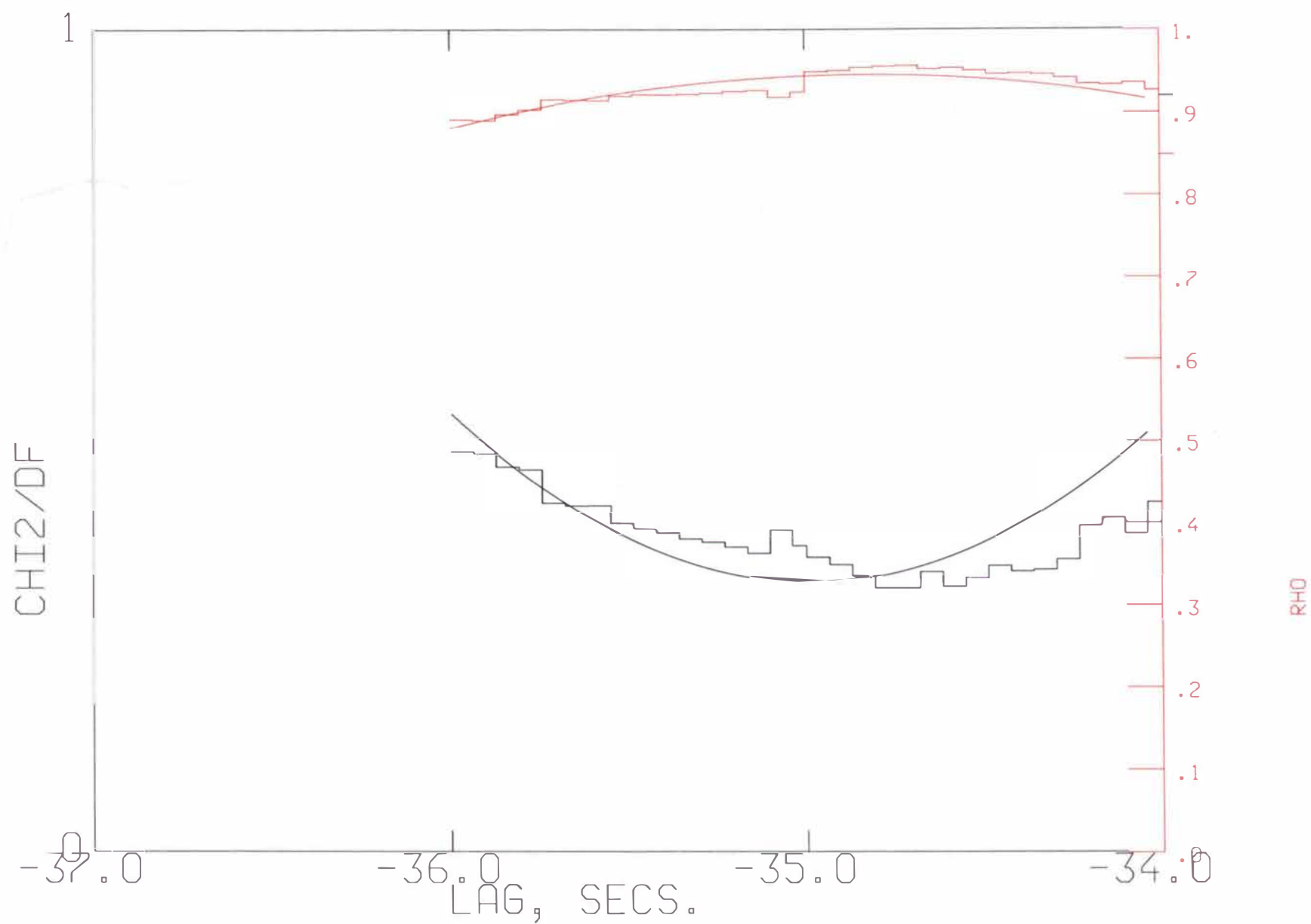
26/03/2013

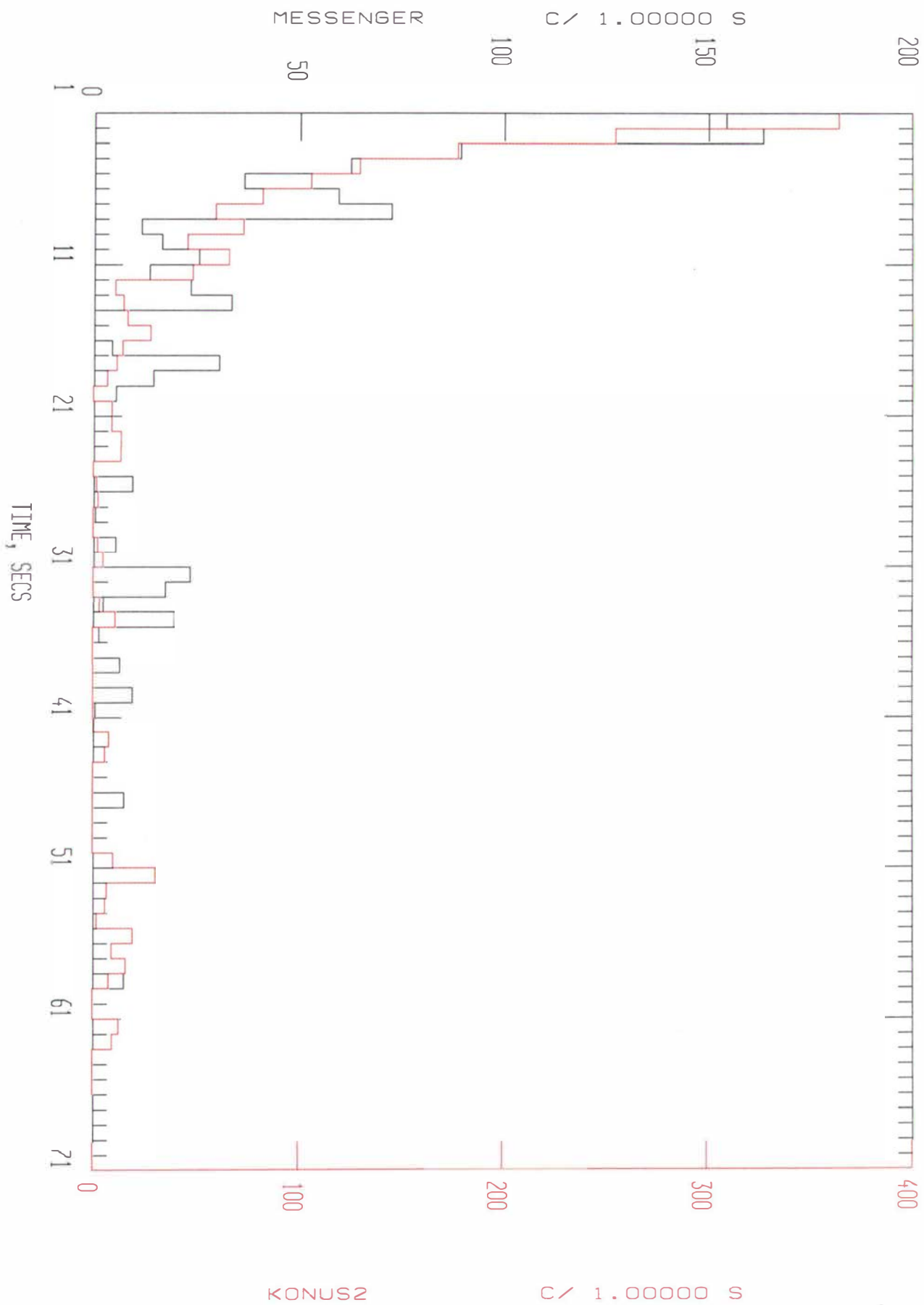
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 KONUS2 2 MO 3 MESSENGER 4 SWIFT

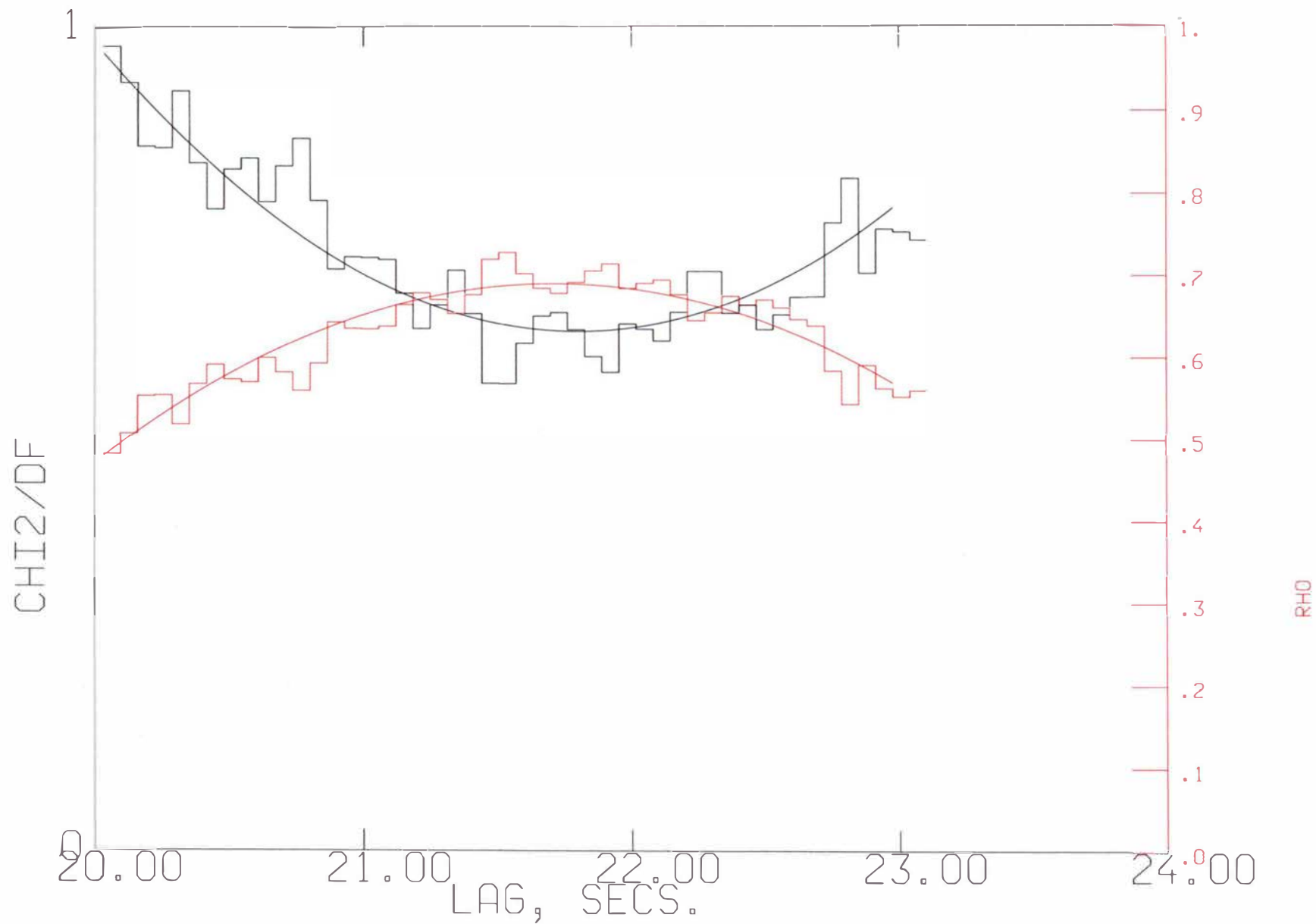


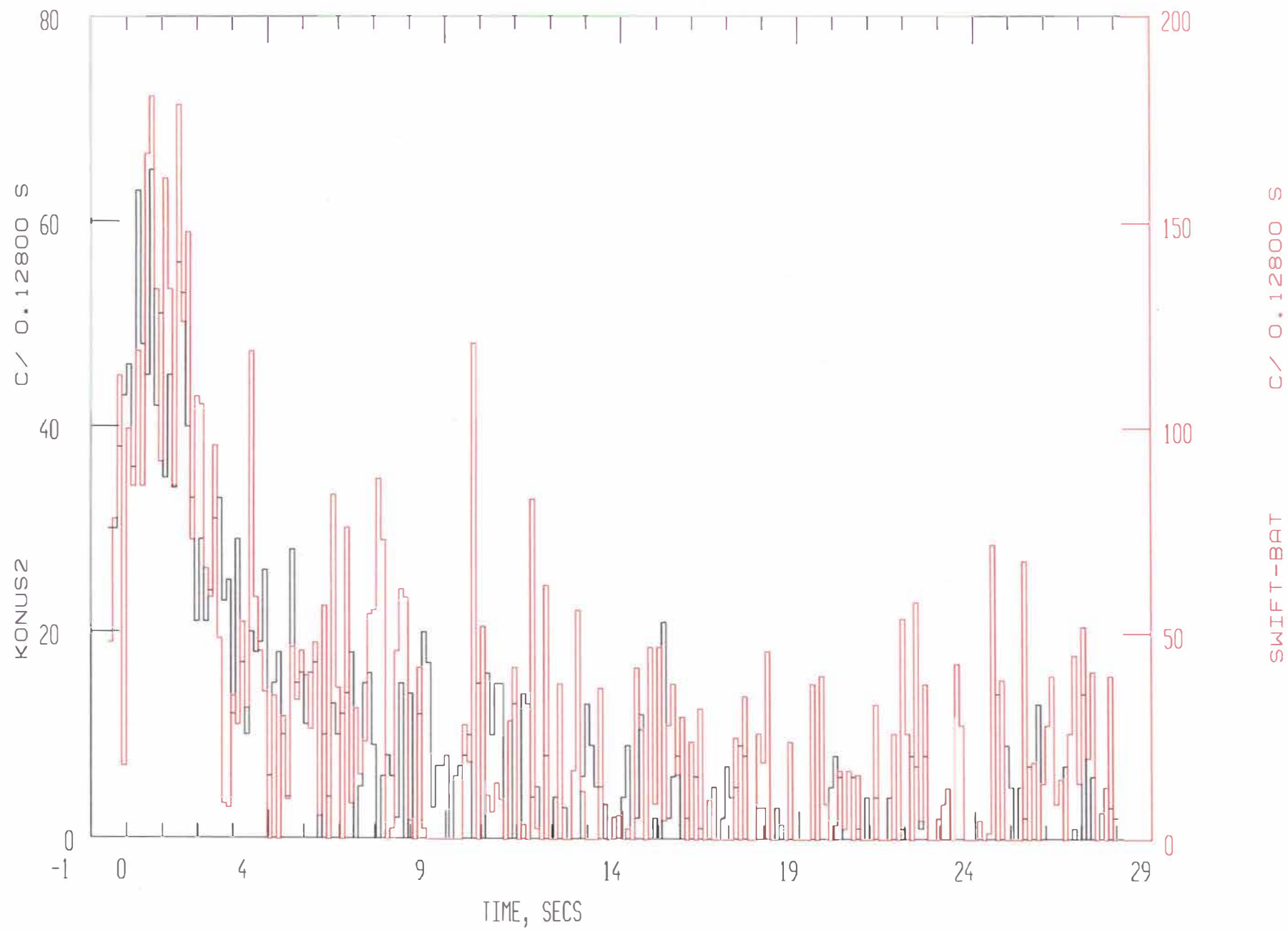












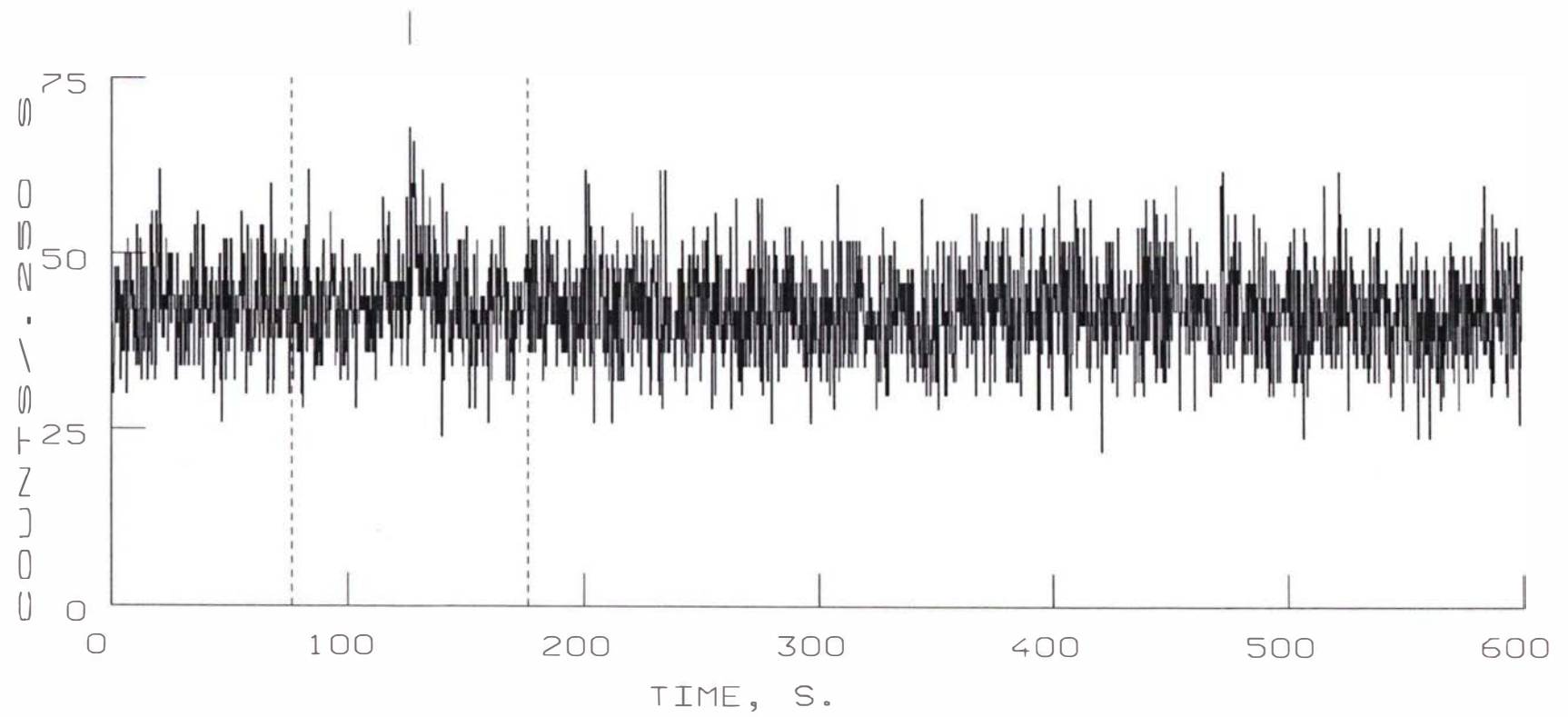
MS01 HEND

26/03/2013

28/08/2011 17455.523 s

50-3000 keV

MAXIMUM

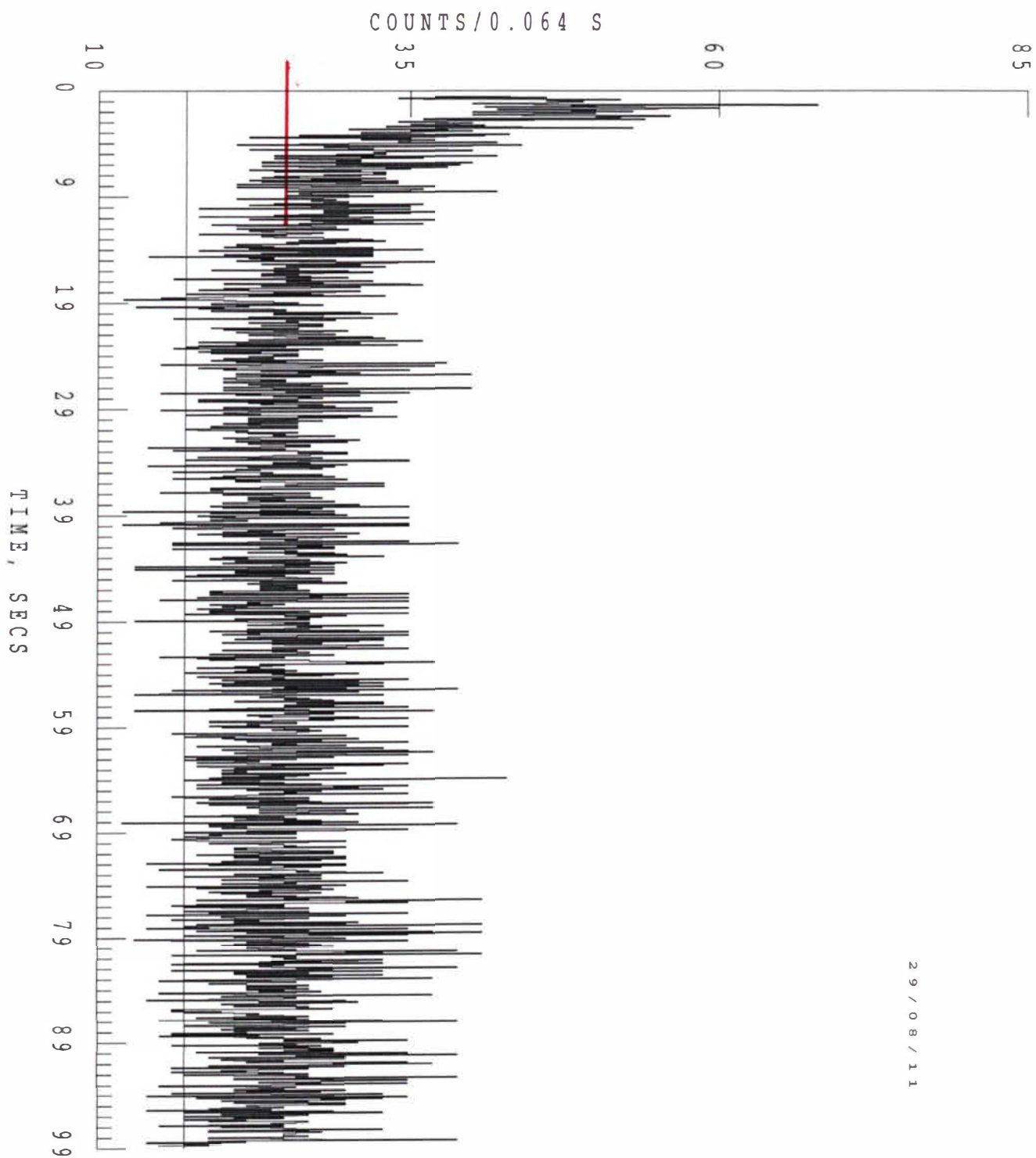


KONUS2

28/08/11

18557.065

50 - 200 keV



29/08/11

KONUS HRES 20110828 18557

TRIGGER TIME: 28/08/11 DOY 240 Julian 2455802.71478 UT = 05.155 05:09:17 (18557.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

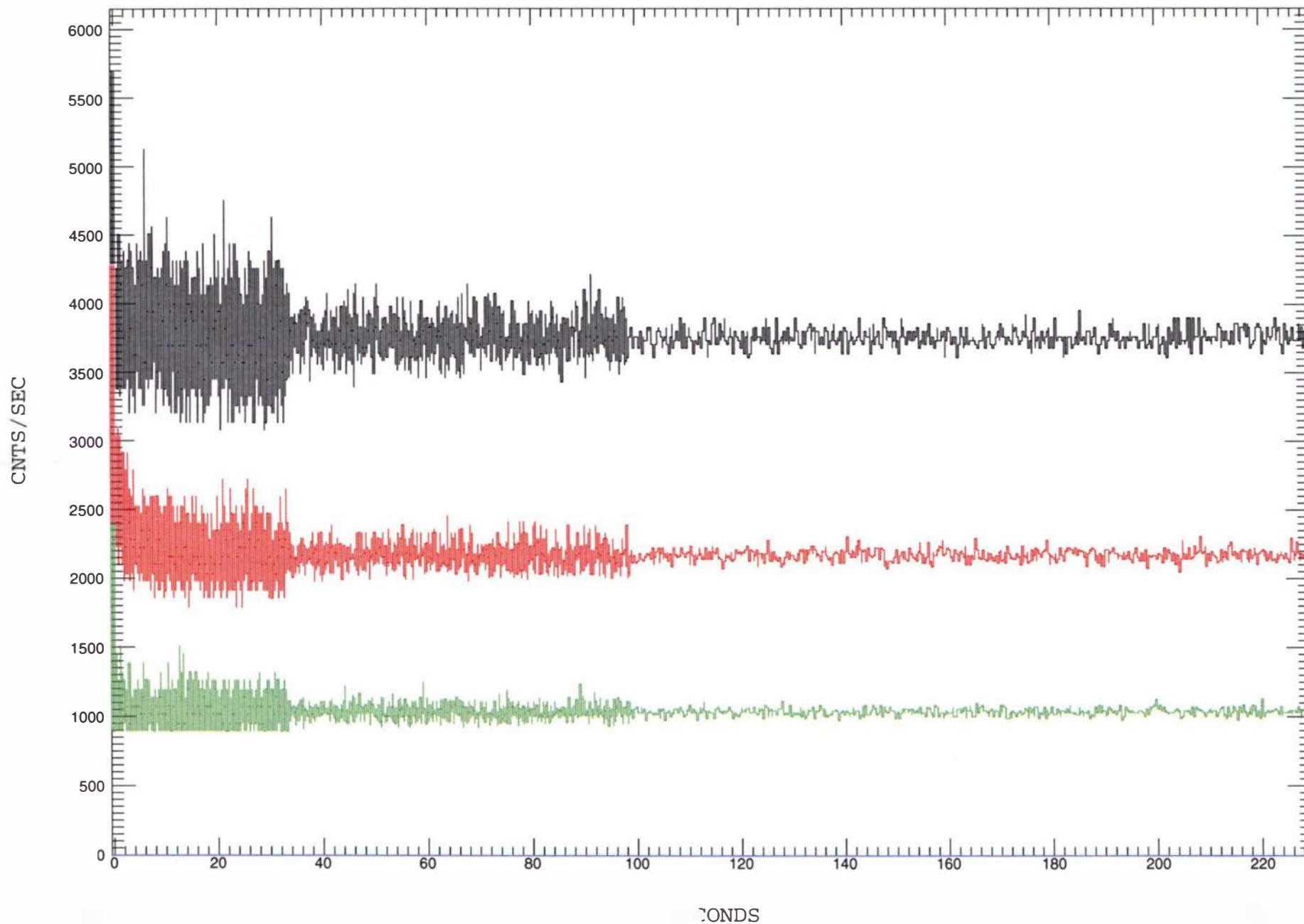
Chan 4 : [> 10 MeV]

Channel 1 + 2700

Channel 2 + 1800

Channel 3 + 900

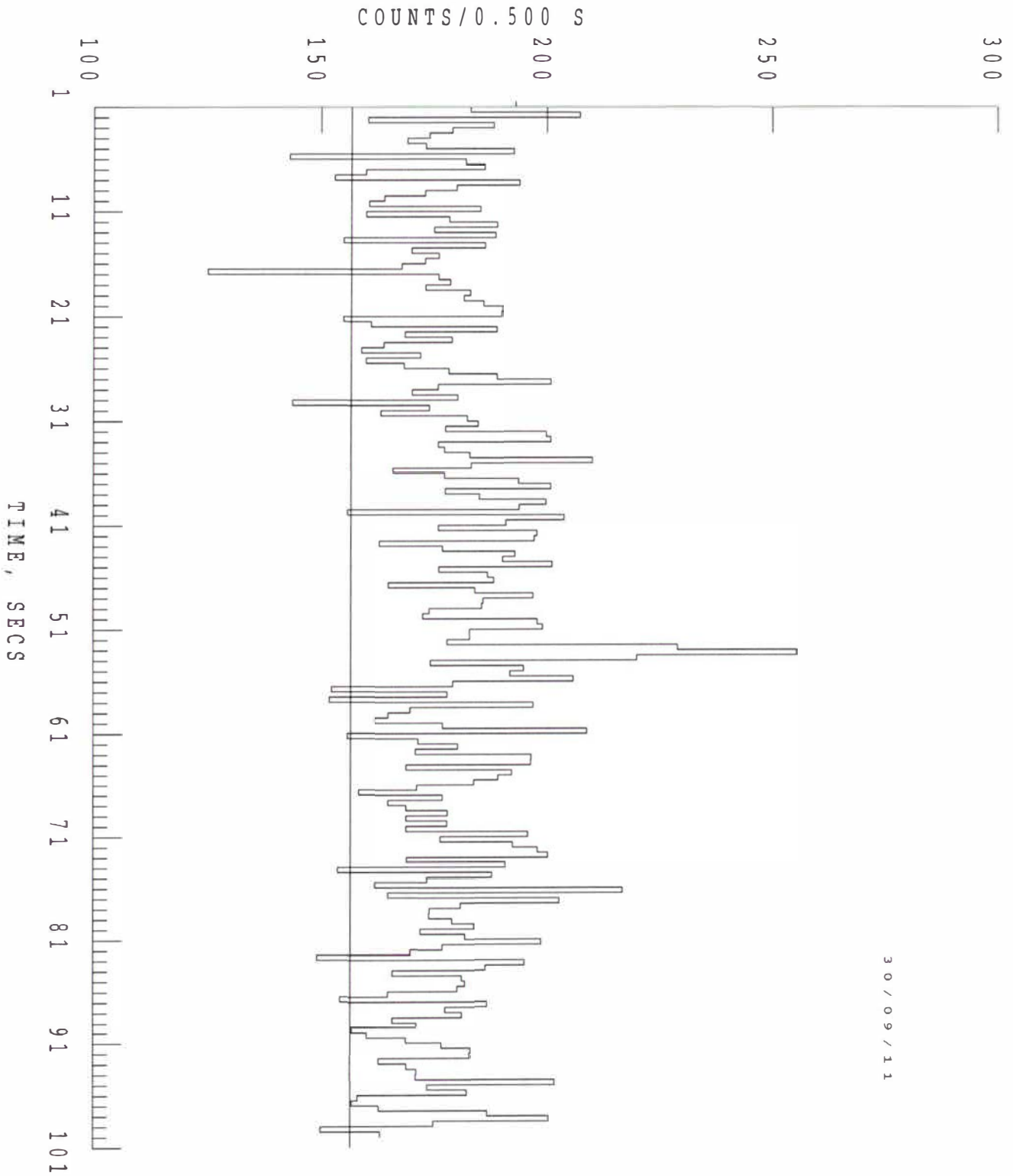
Channel 4 + 0



HESSI

28/08/11 18507.000 (KONUS_20110828_18557)

25- 150 keV



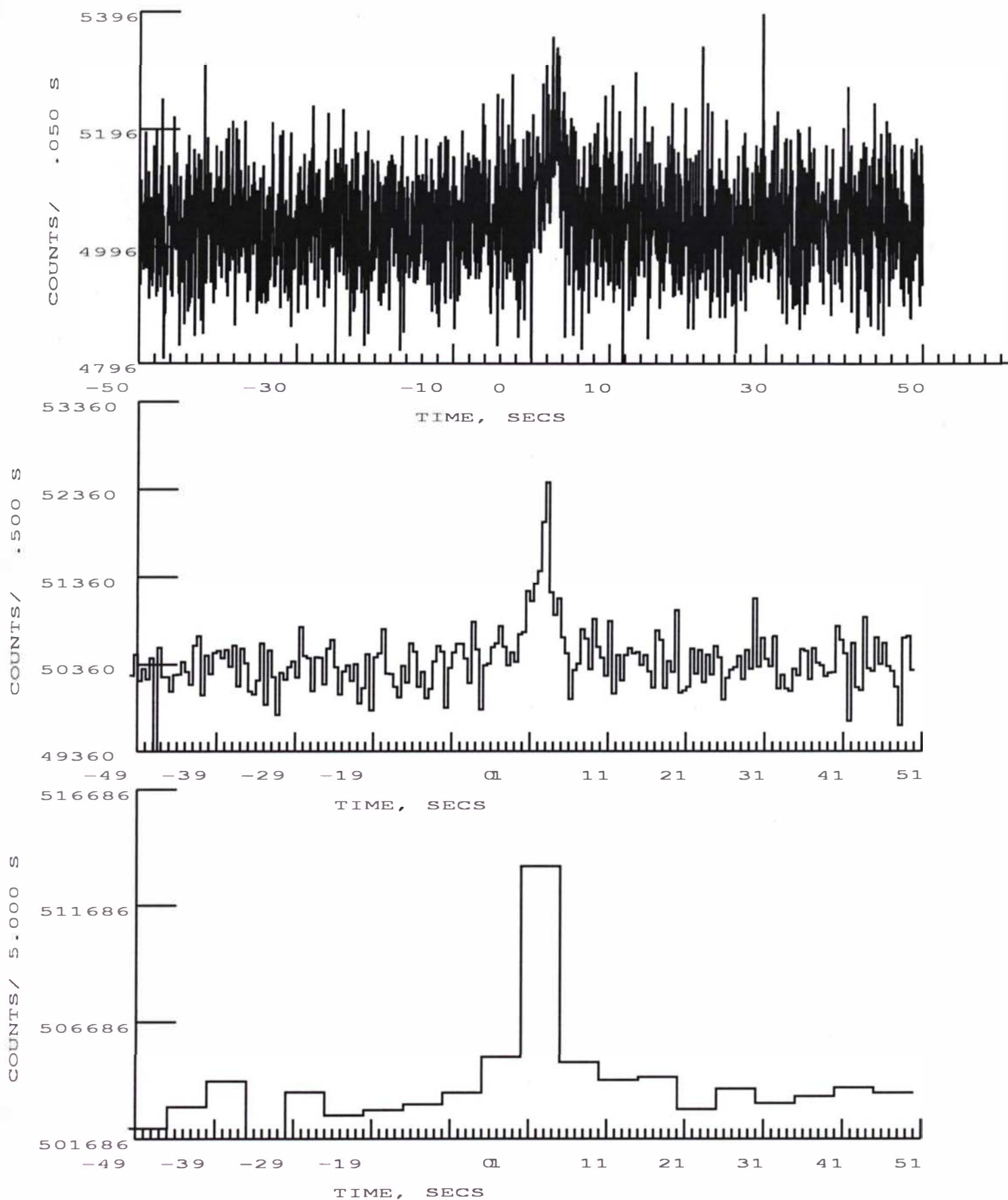
INTEGRAL

28/08/11

18557.000

05:09:17.0

20/01/14



Subject: [Ipn] BAT lightcurve for trigger at 110828_0509

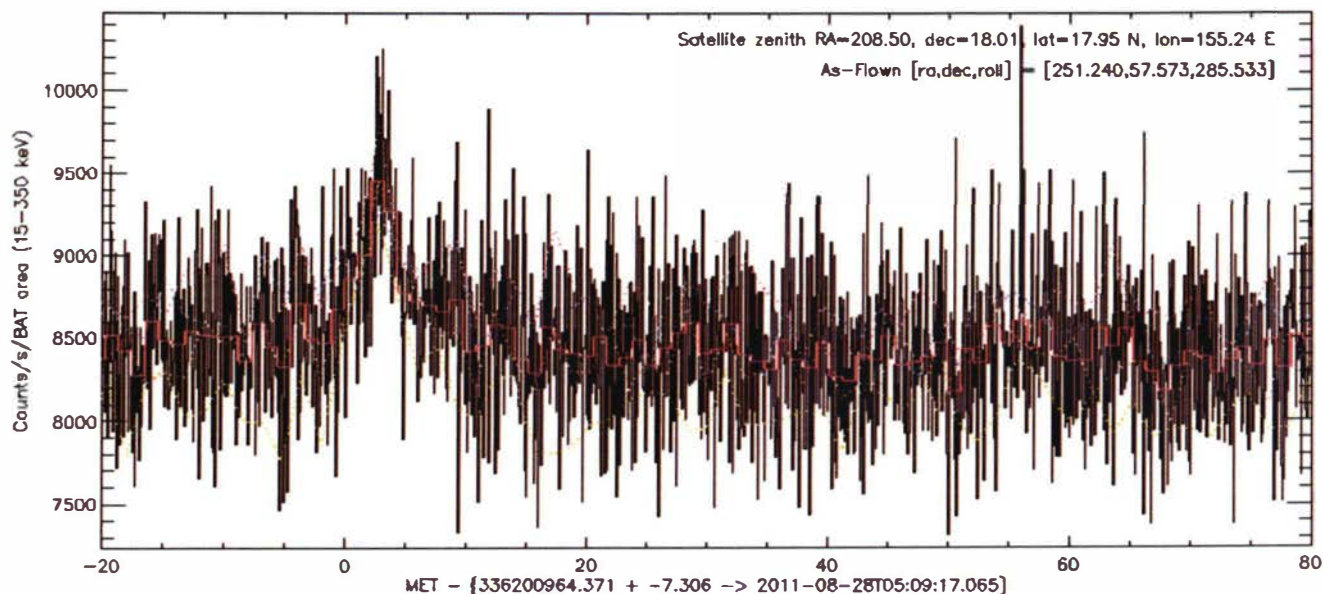
From: palmer+automatic_lightcurve@lanl.gov

Date: Sun, 28 Aug 2011 07:23:56 -0600 (MDT)

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

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

/tmp/110828_0509.png



```
% /usr/local/bin/swinfo -o 336200964.371
Time(MET + UTCF -> UT):      336200964.371 + -7.306 -> 2011-08-28T05:09:17.065
Swift Zenith(RA,dec):        208.50, 18.01
Swift Location(lon,lat,alt):  155.24 E, 17.95 N, 592 km
Obs Sequence Number:         00031955155
Obs Target Name:             Swift J164449.3+573451
Obs Date and Times:          2011-08-28 04:54:54 - 05:11:52
Obs Pointing(ra,dec,roll):   251.240, 57.573, 285.53
```

--
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>

/tmp/110828_0509_bat64ms_ipn

Content-Type: application/octet-stream
Content-Encoding: base64

/tmp/110828_0509.png

/tmp/110828_0509.png

Content-Type: image/png
Content-Encoding: base64

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit

30/09/11

MESSENGER

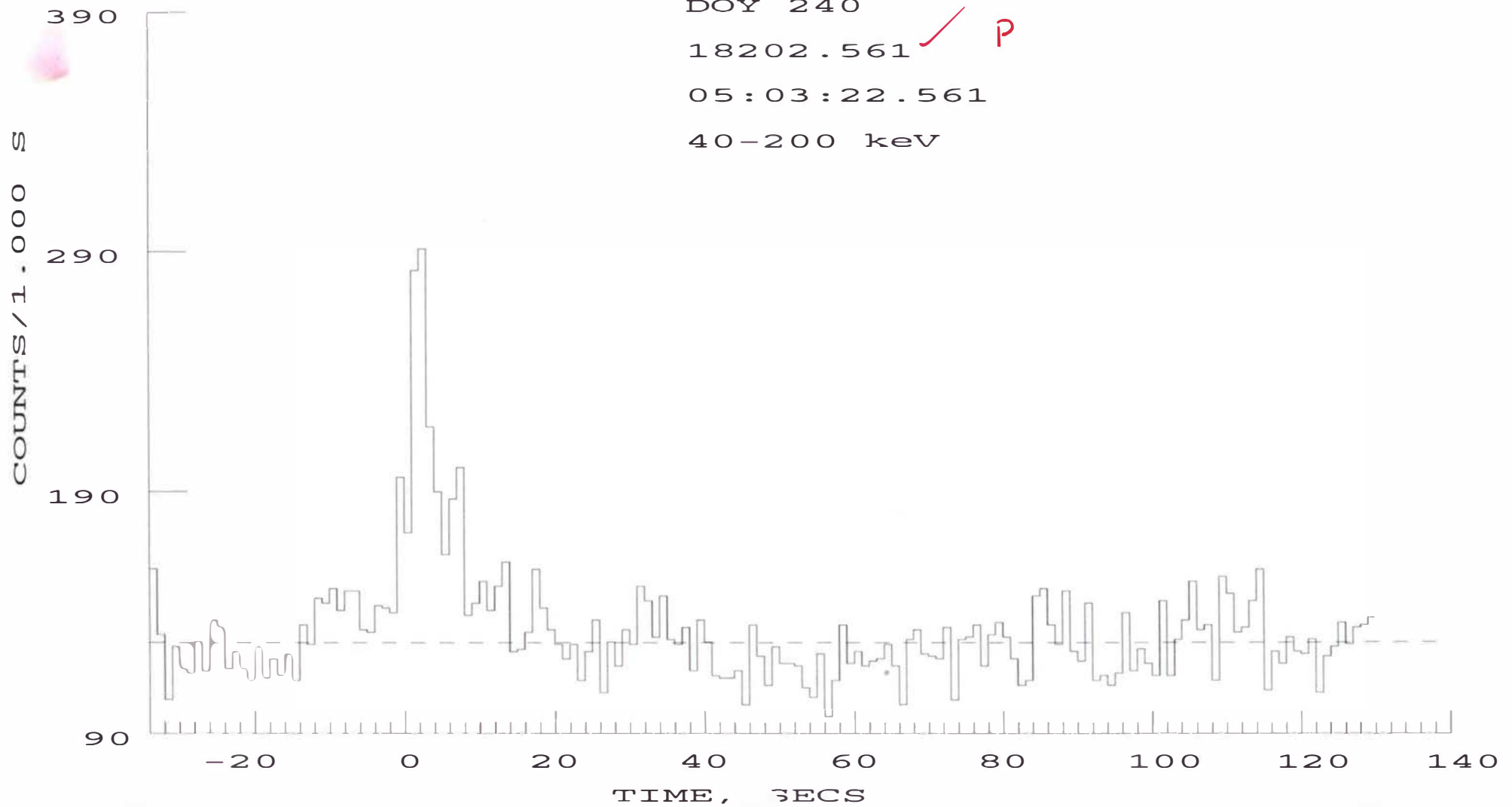
28/08/11

DOY 240

18202.561 ✓ P

05:03:22.561

40-200 keV



Date: _____

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?

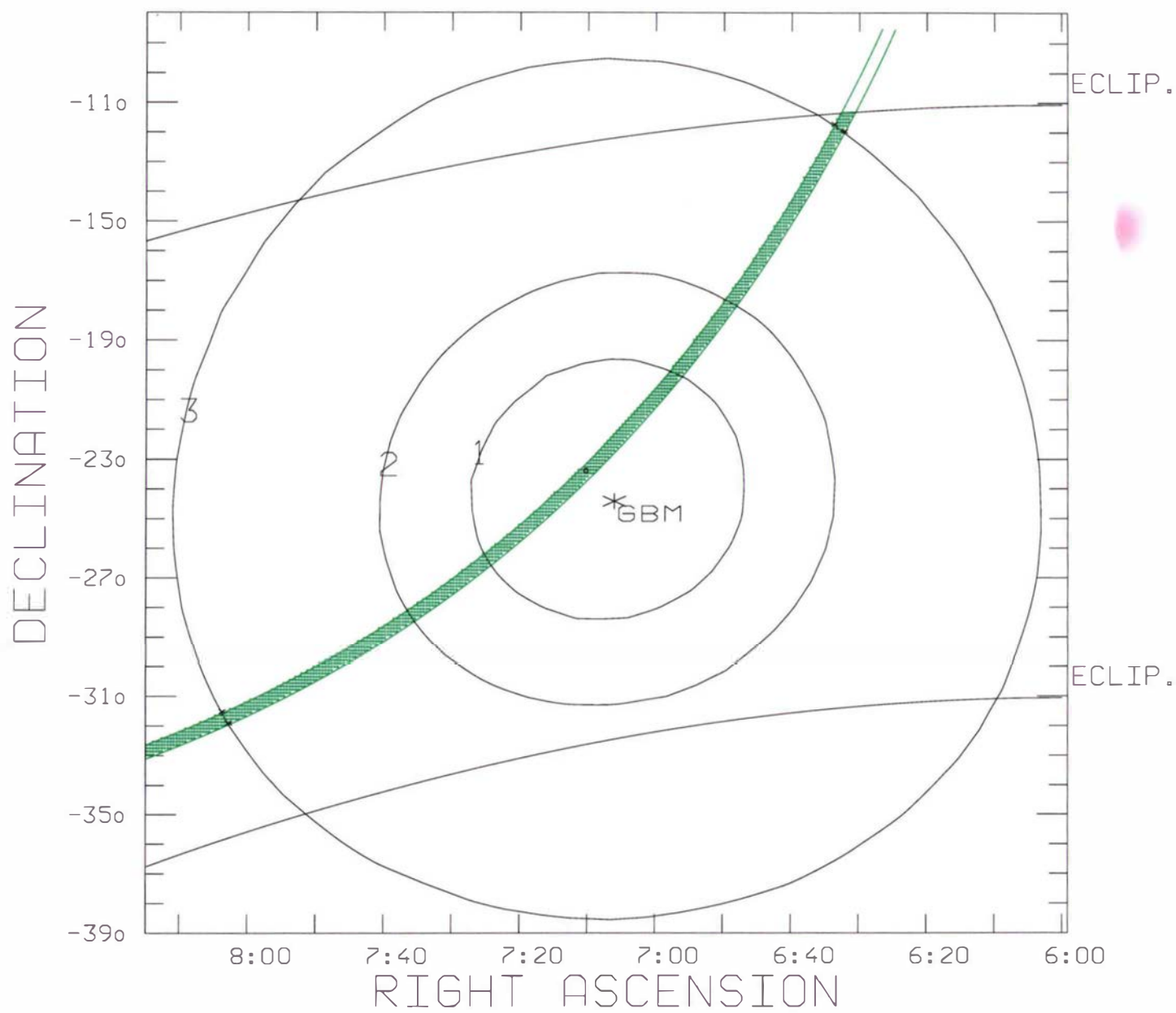
7. For INTEGRAL events

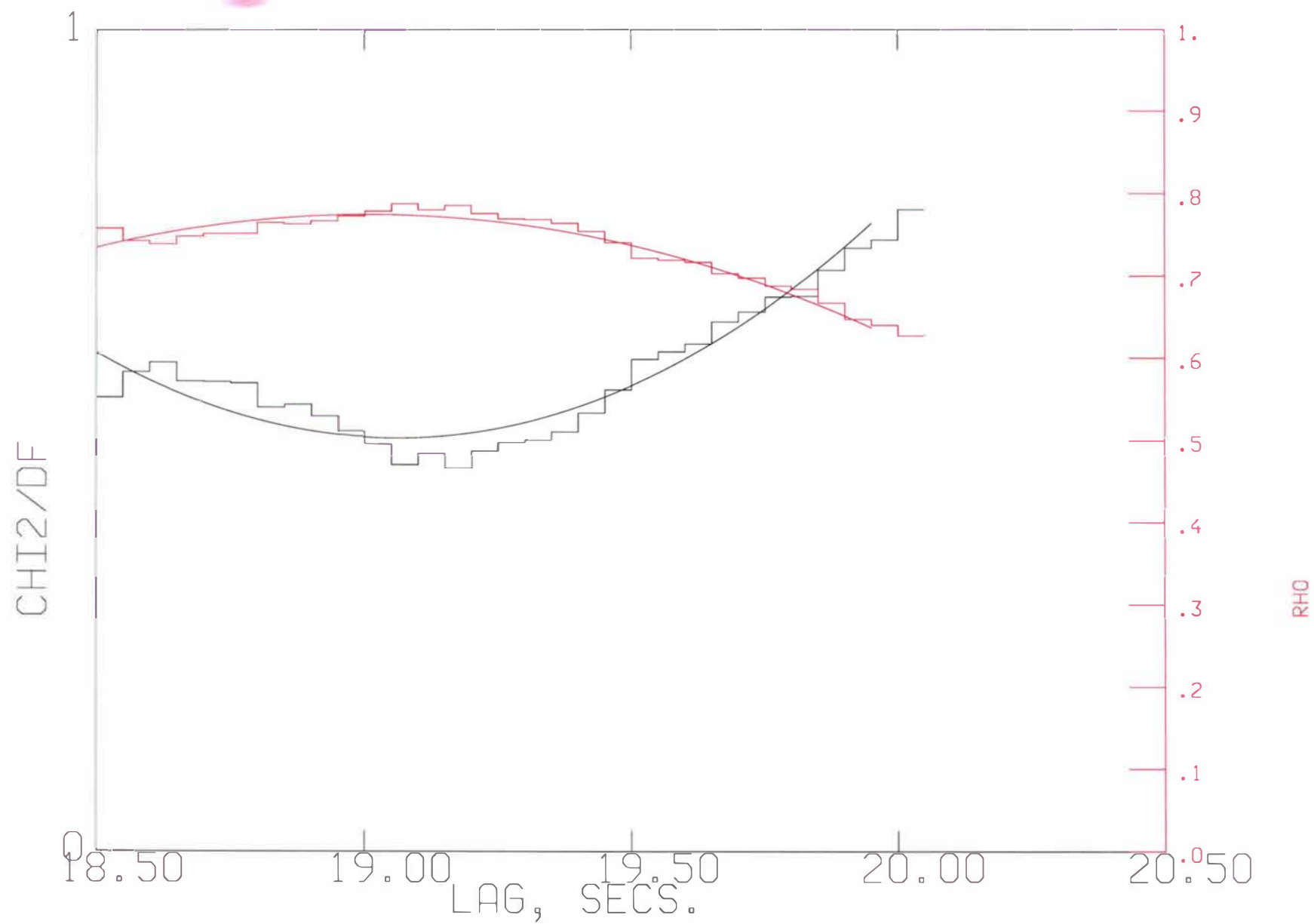
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

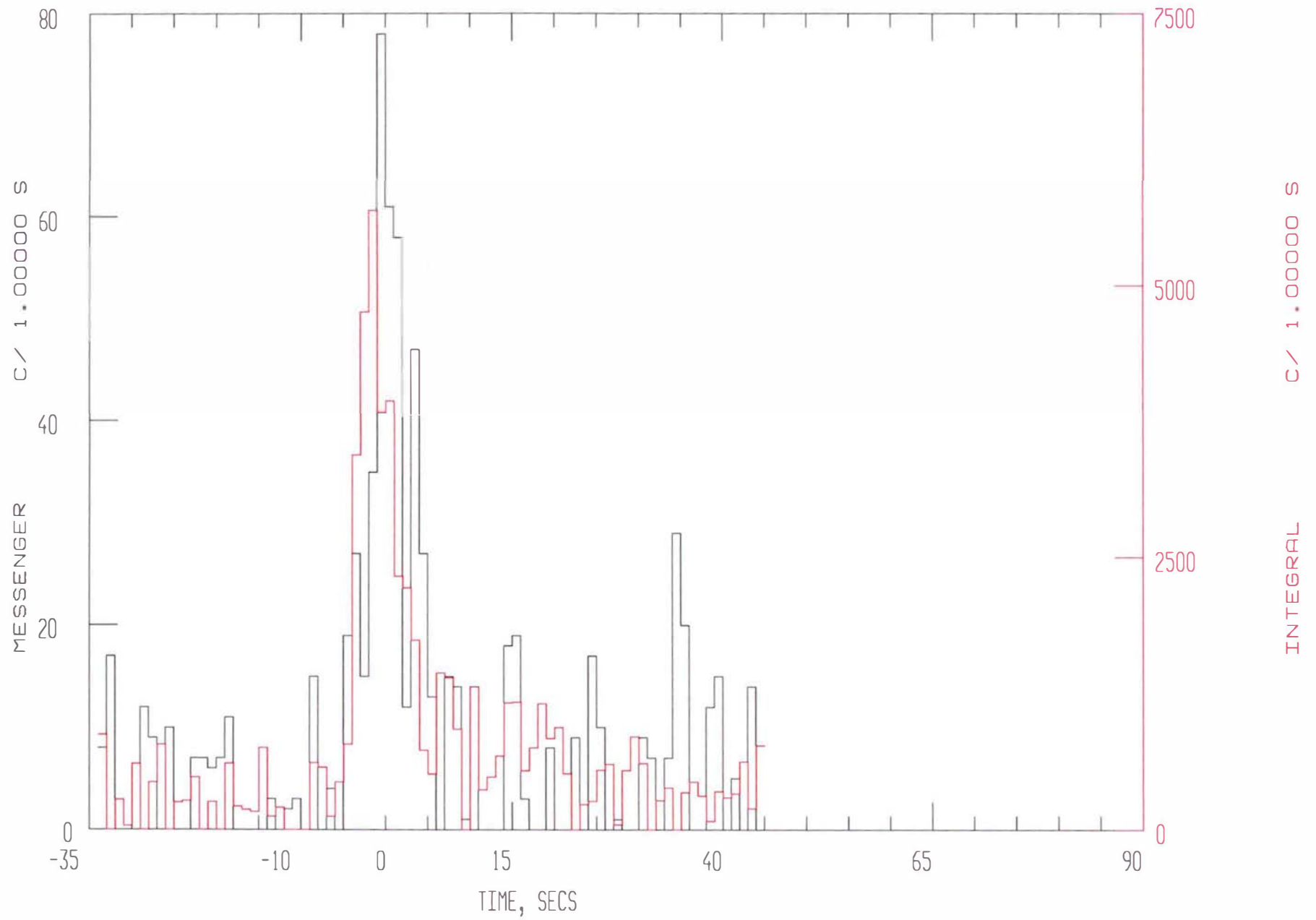
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

GRB110828 ~49697 S

20/07/2016







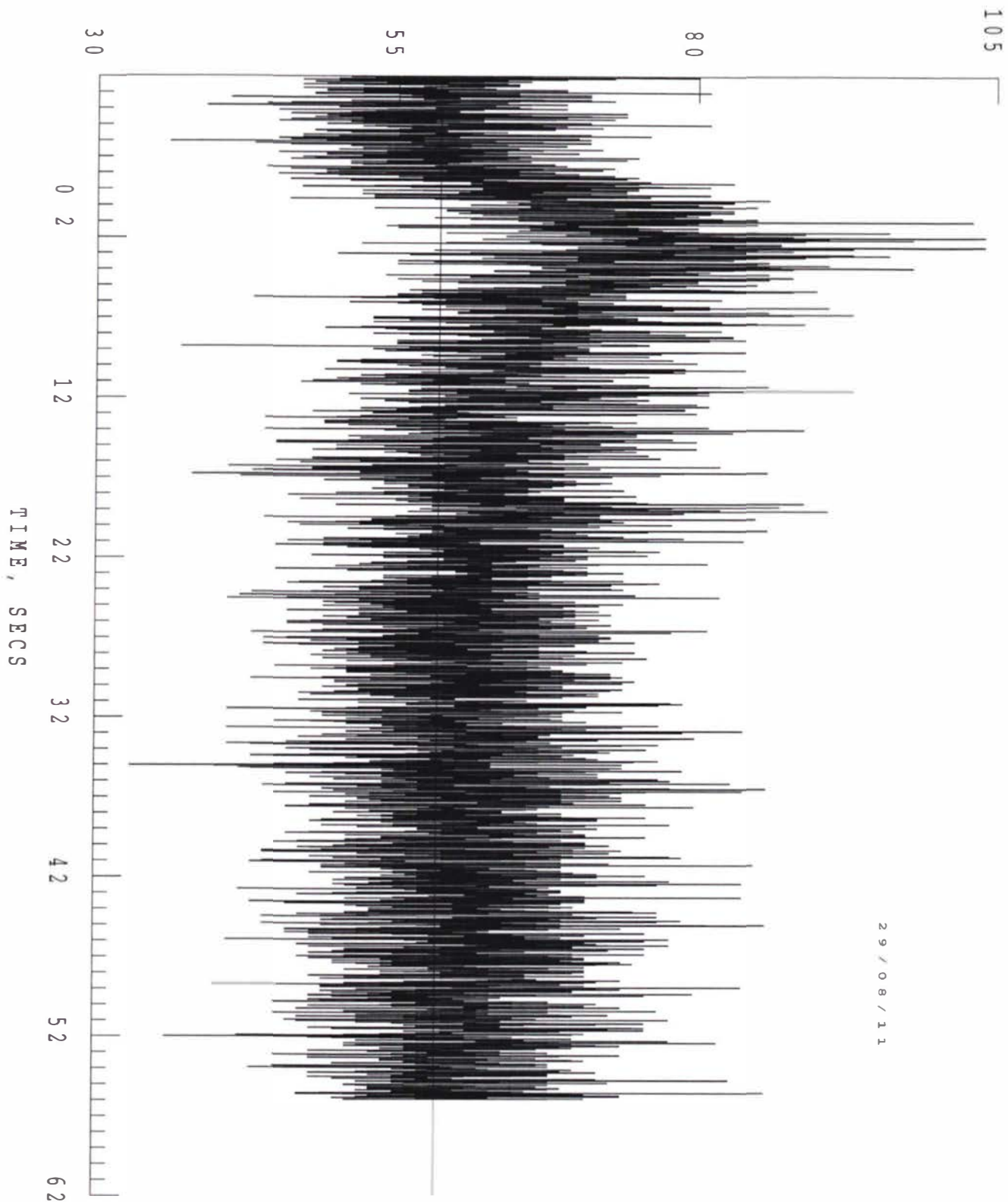
SUZAKU

28/08/11

49693.867

50 - 240 keV

COUNTS/0.016 S



29/08/11

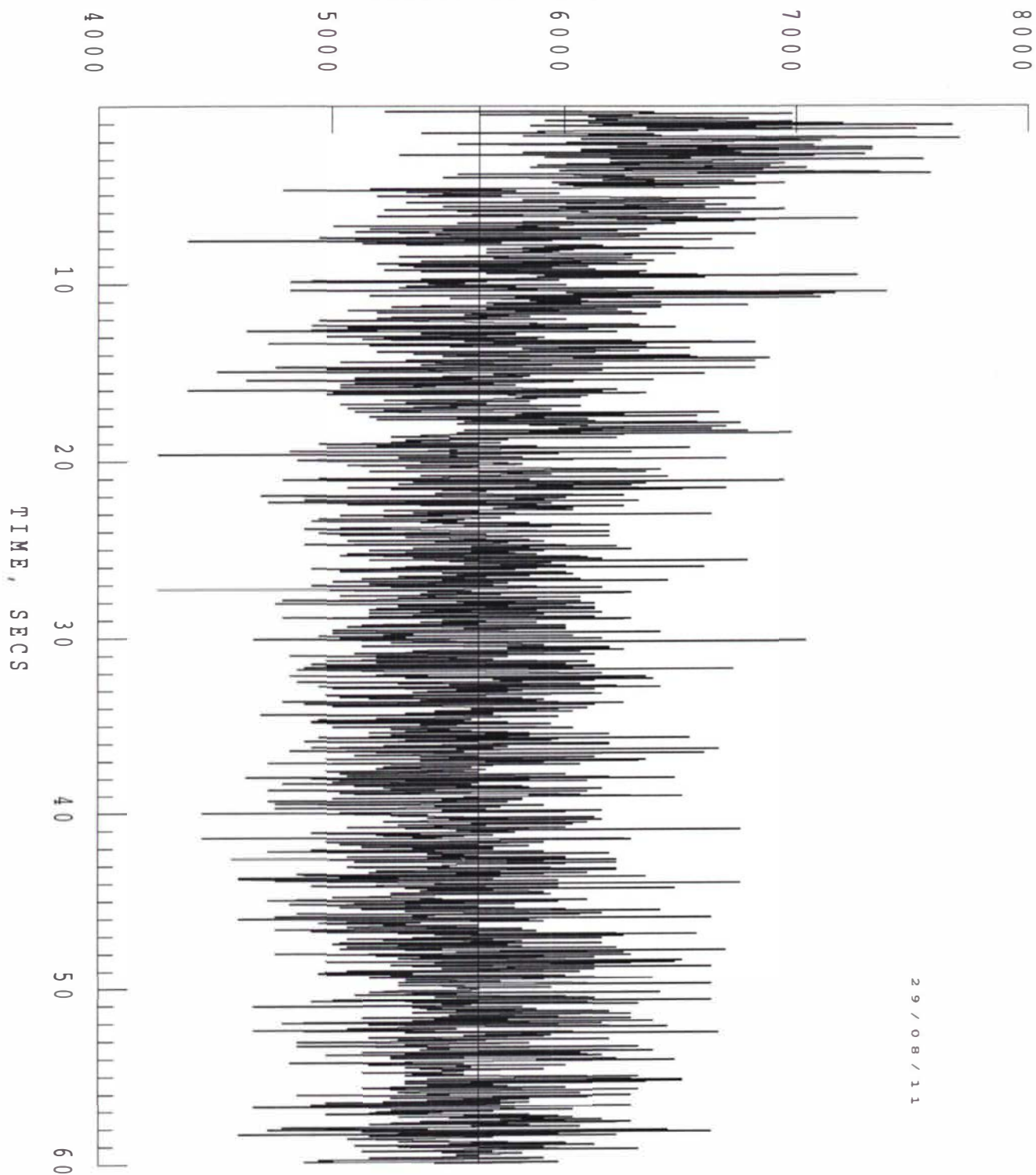
GLAST

28/08/11

49694.720

26 - 293 keV

COUNTS/0.032 S



29/08/11

Subject: [lpn] BAT lightcurve for trigger at 110828_1348

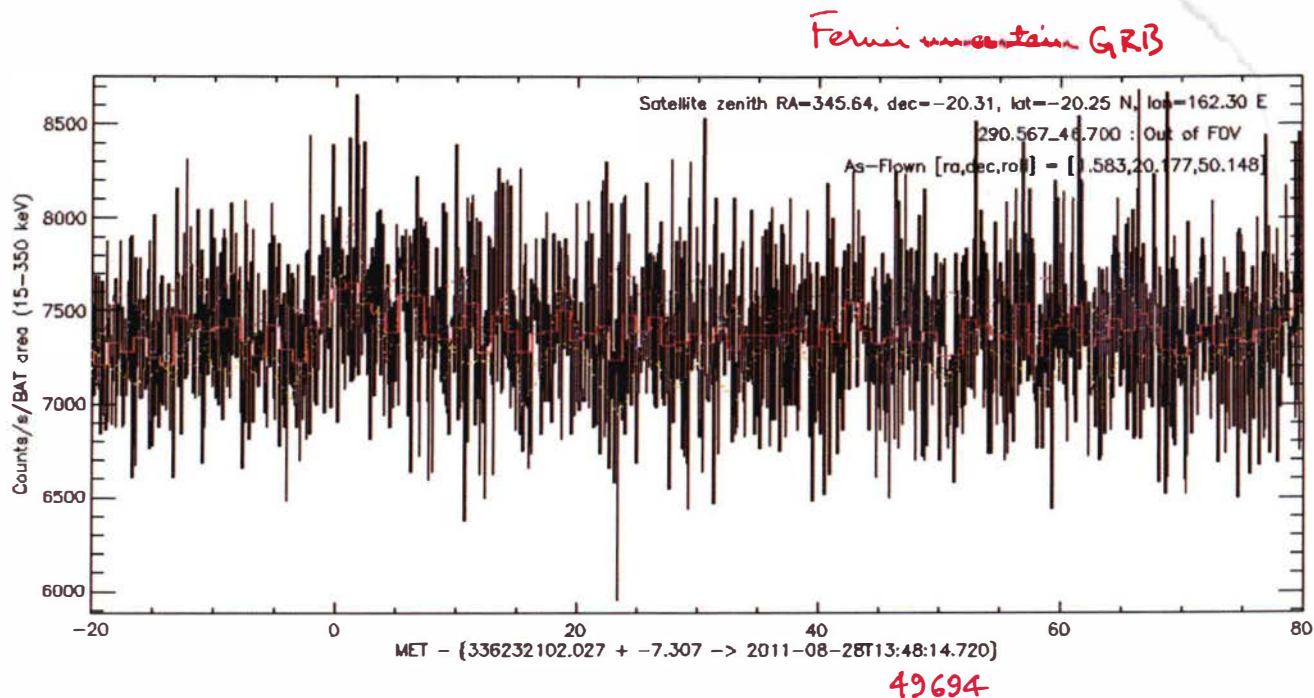
From: palmer+automatic_lightcurve@lanl.gov

Date: Sun, 28 Aug 2011 14:42:54 -0600 (MDT)

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

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

/tmp/110828_1348.png



```
% /usr/local/bin/swinfo -o 336232102.027 -s 115.050 -37.233
Time(MET + UTCF -> UT): 336232102.027 + -7.307 -> 2011-08-28T13:48:14.720
Swift Zenith(RA,dec): 345.64, -20.31
Swift Location(lon,lat,alt): 162.30 E, -20.25 N, 579 km
Obs Sequence Number: 00035755052
Obs Target Name: Mkn 335
Obs Date and Times: 2011-08-28 13:31:54 - 13:50:50
Obs Pointing(ra,dec,roll): 1.583, 20.177, 50.15
115.050_-37.233_imageloc (boresight_dist, angle): (120, -18)
115.050_-37.233_exposure (cm^2 cos adjusted): 0
115.050_-37.233_altitude: 8 (depressed but unattenuated)
```

```
% /usr/local/bin/swinfo -o 336232102.027 -s 290.567 46.700
Time(MET + UTCF -> UT): 336232102.027 + -7.307 -> 2011-08-28T13:48:14.720
Swift Zenith(RA,dec): 345.64, -20.31
Swift Location(lon,lat,alt): 162.30 E, -20.25 N, 579 km
Obs Sequence Number: 00035755052
Obs Target Name: Mkn 335
Obs Date and Times: 2011-08-28 13:31:54 - 13:50:50
Obs Pointing(ra,dec,roll): 1.583, 20.177, 50.15
290.567_46.700_imageloc (boresight_dist, angle): (63, 173)
290.567_46.700_exposure (cm^2 cos adjusted): 0
290.567_46.700_altitude: 30 (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>

/tmp/110828_1348_bat64ms_ipn	Content-Type: application/octet-stream
------------------------------	--

Content-Encoding: base64

/tmp/110828_1348.png

/tmp/110828_1348.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

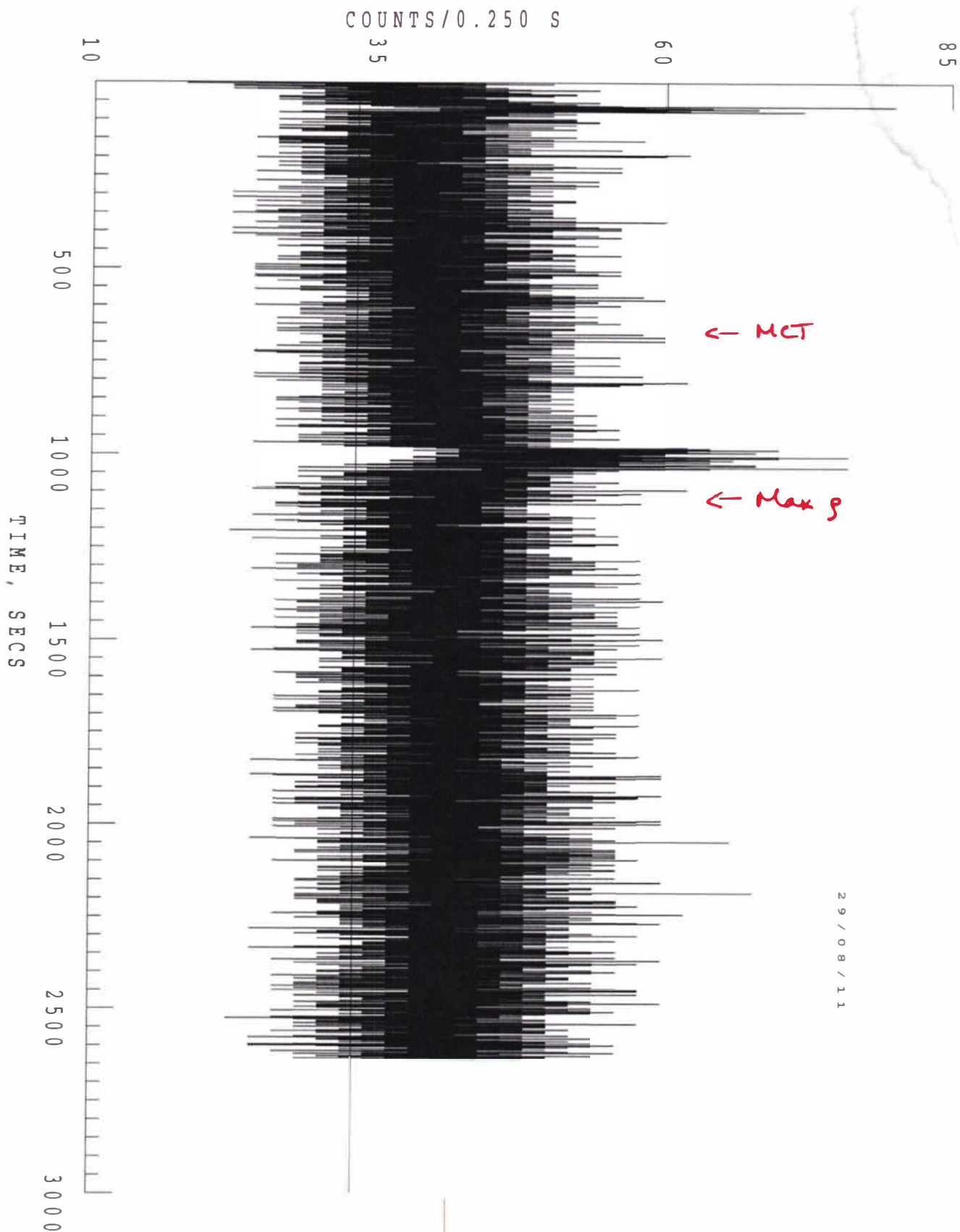
Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

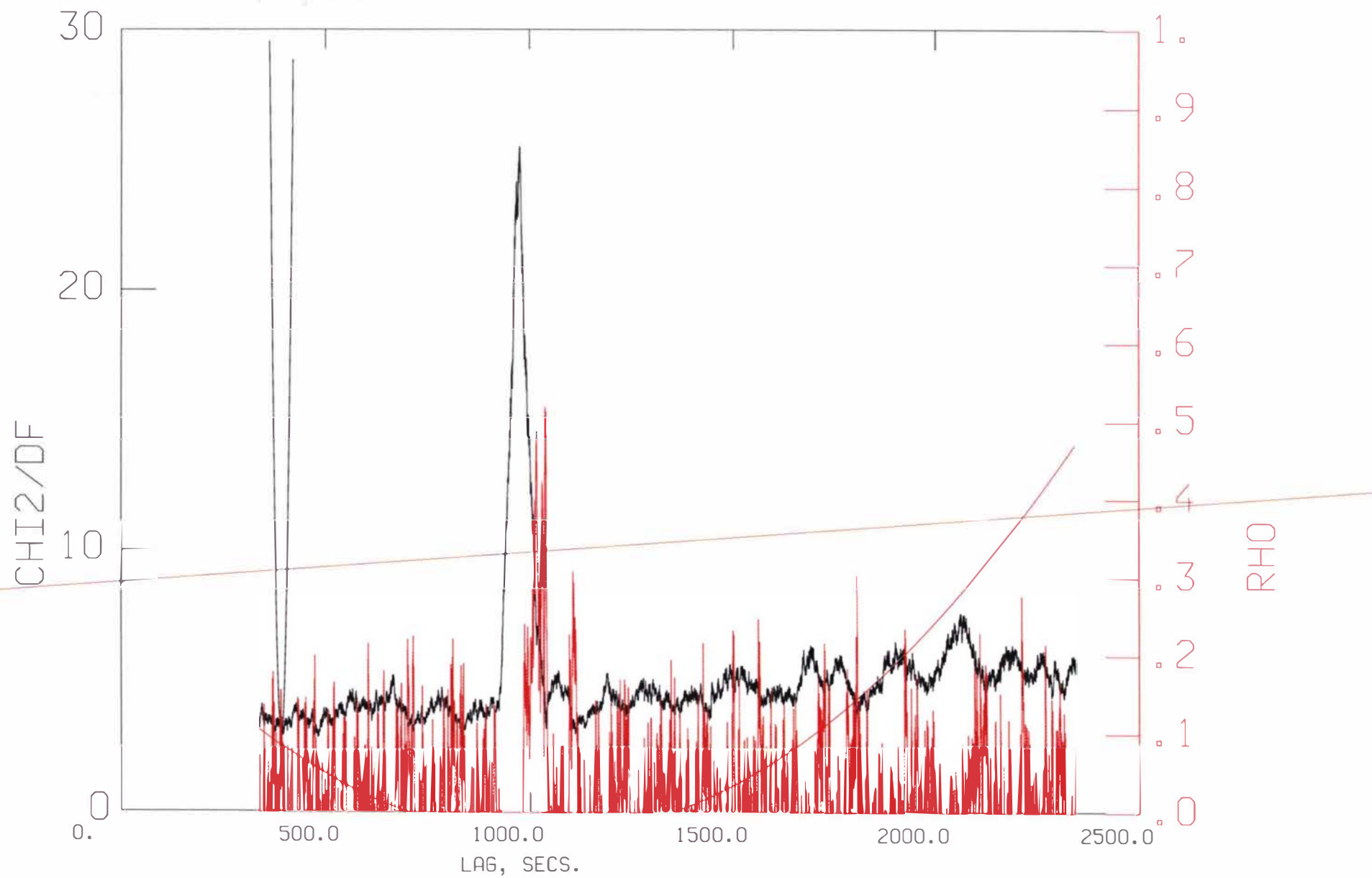
MS01

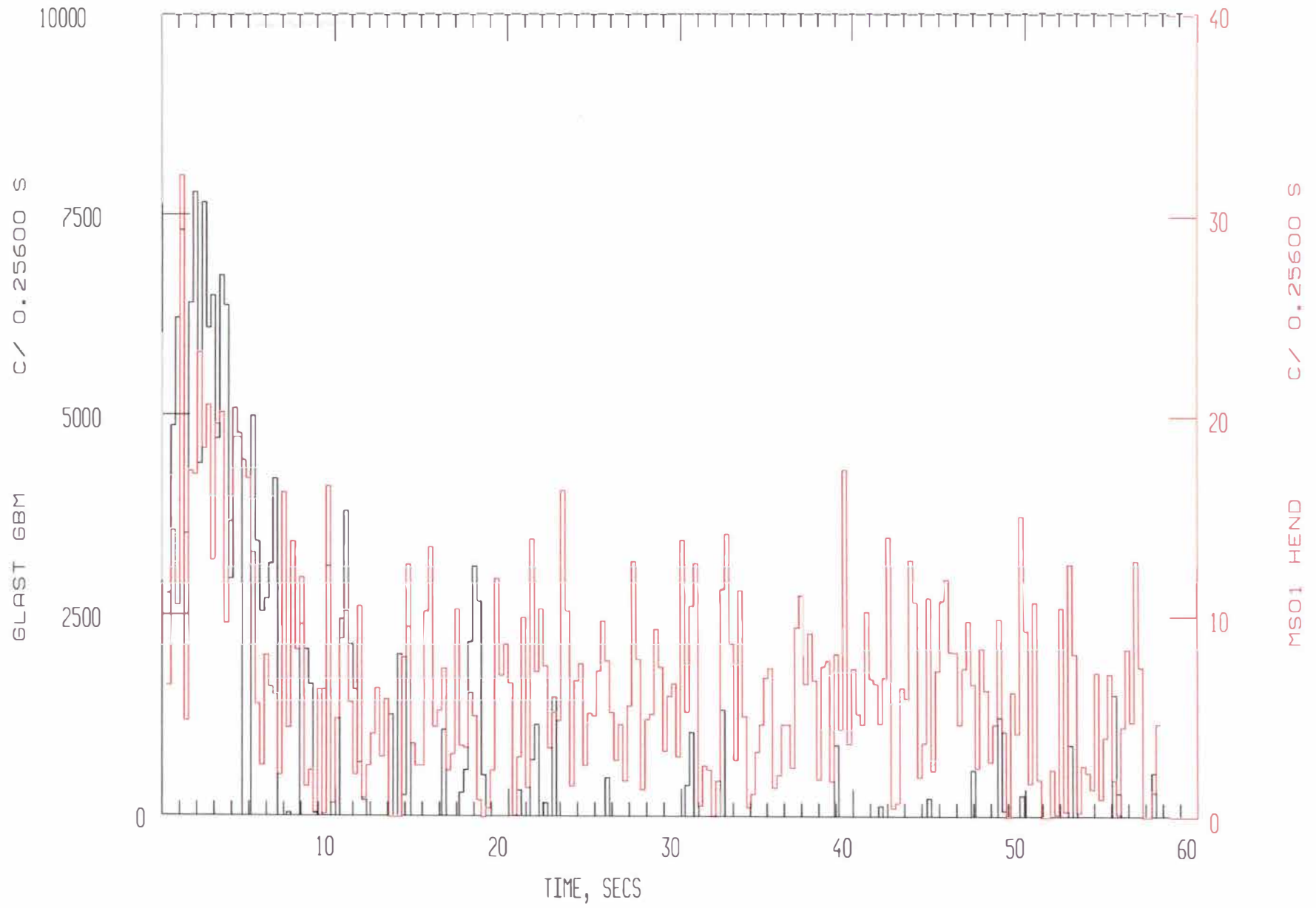
28/08/11

48355.115

50 - 3000 keV







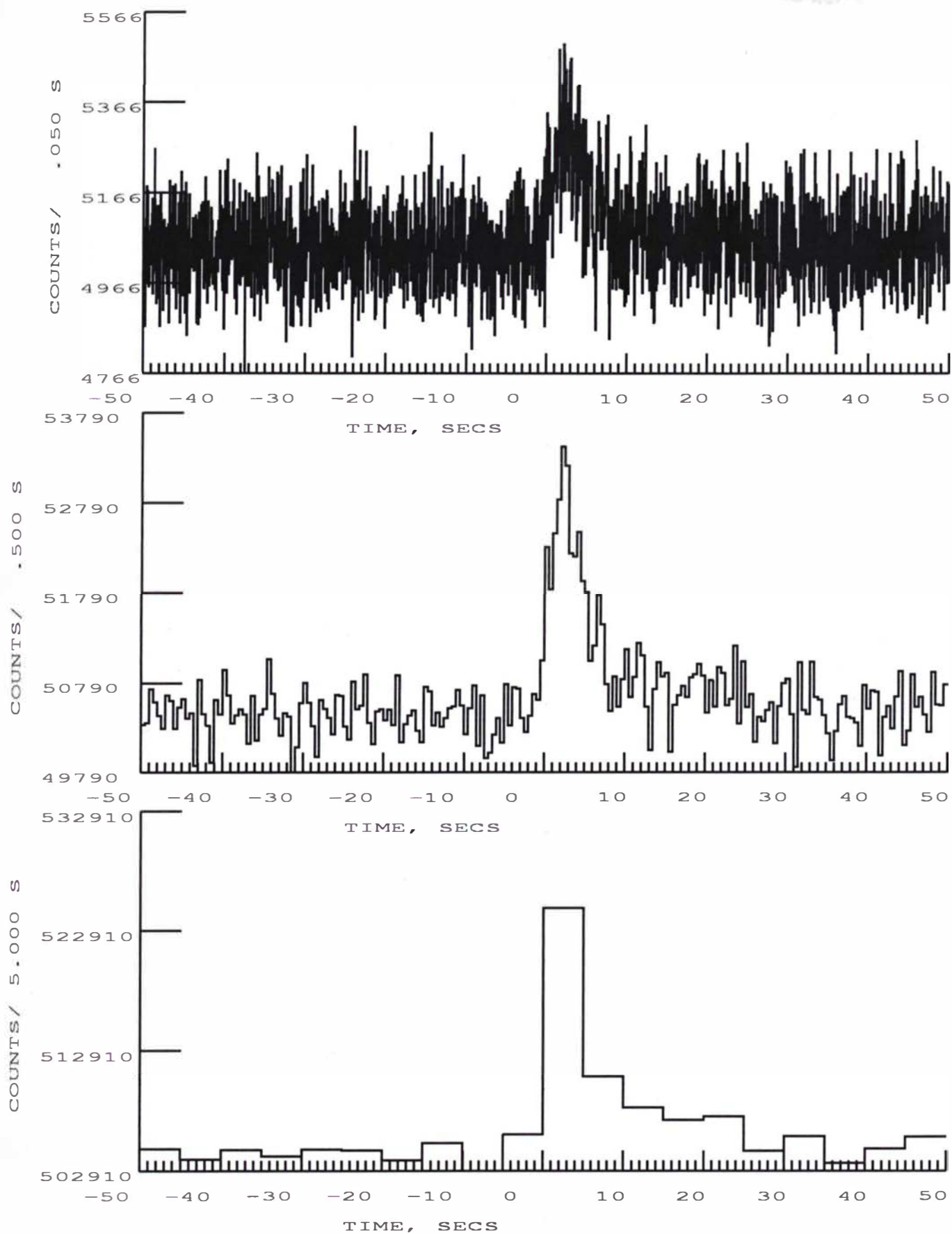
INTEGRAL

28/08/11

49694.000

13:48:14.0

20/01/14



From williams@gammaburst.ssl.berkeley.edu Fri Sep 2 23:02:47 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Fri, 2 Sep 2011 23:02:07 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20110828_49693
X-Ucb-Scan-Signature: 5bf61d0c4934990471f9208d1f785973ca94bc6b
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 2-Sep-2011 23:03:03.00
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

30/09/11

MESSENGER

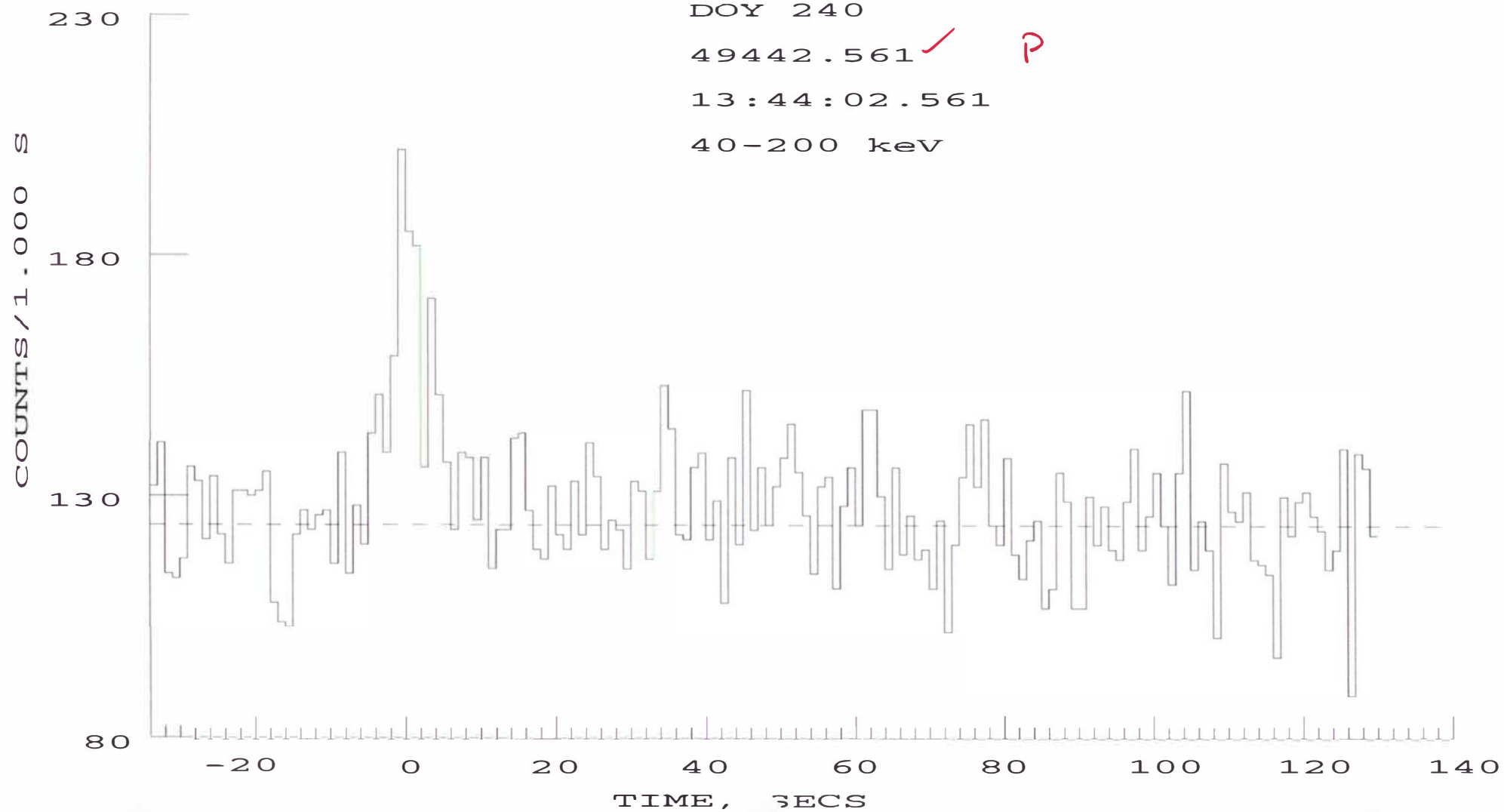
28/08/11

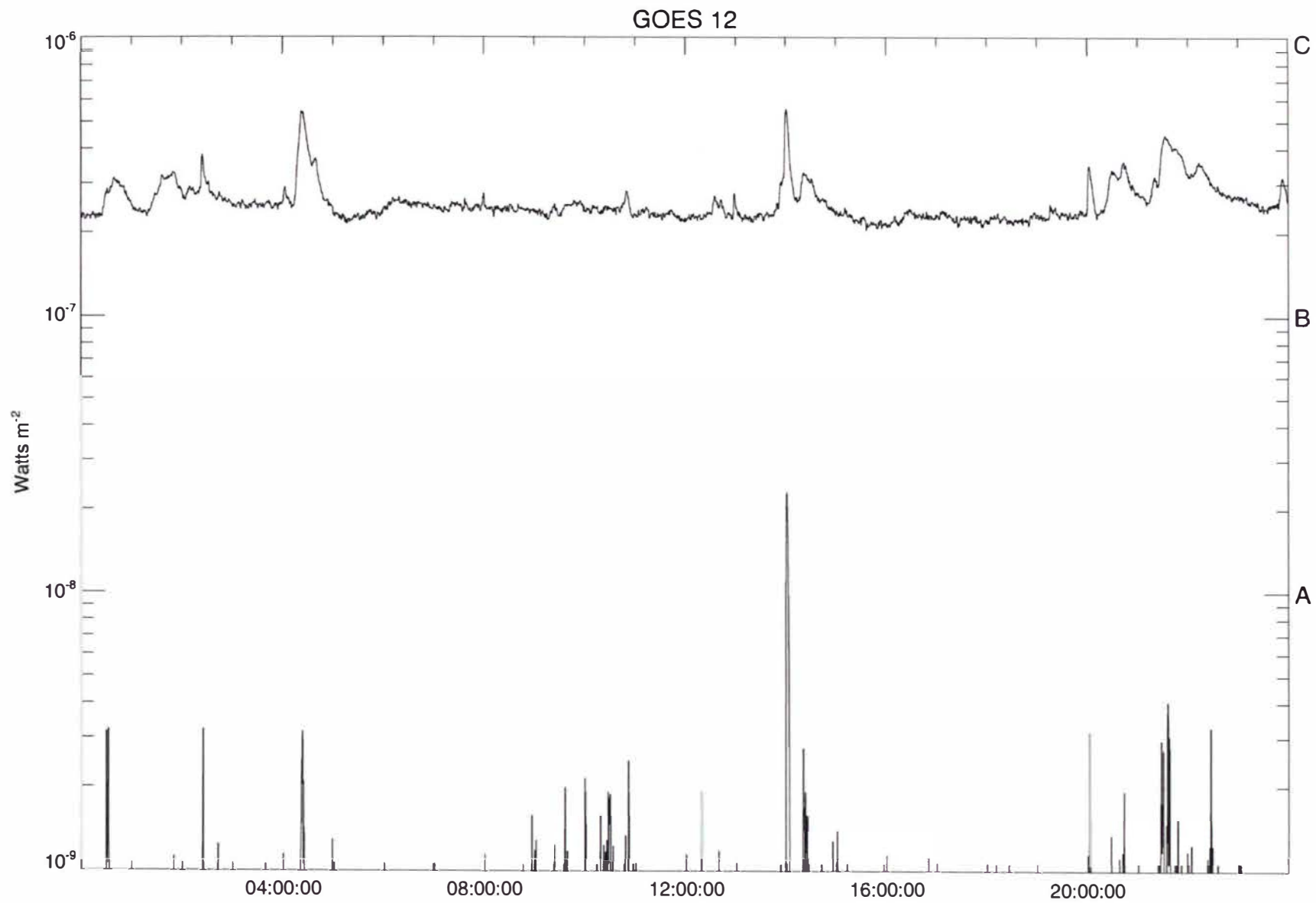
DOY 240

49442.561 ✓ P

13:44:02.561

40-200 keV





Data Start: 11/08/28, 0000:09

Plot created: 11/08/31, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

From vxw@capella2.gsfc.nasa.gov Mon Aug 29 16:44:59 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Mon, 29 Aug 2011 19:46:22 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 5e0c557eb283276480e6c86124b083eb58d6167e
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE SGR
NOTICE_DATE: Mon 29 Aug 11 23:46:02 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 501752, Seg_Num: 0
GRB_RA: 278.721d {+18h 34m 53s} (J2000),
278.880d {+18h 35m 31s} (current),
278.037d {+18h 32m 09s} (1950)
GRB_DEC: -8.751d {-08d 45' 04"} (J2000),
-8.741d {-08d 44' 28"} (current),
-8.792d {-08d 47' 30"} (1950)
GRB_DATE: 15802 TJD; 241 DOY; 11/08/29
GRB_TIME: 85272.25 SOD {23:41:12.25} UT
TRIGGER_INDEX: 10209
GRB_PHI: -32.21 [deg]
GRB_THETA: 36.12 [deg]
DELTA_TIME: 44.00 [sec]
TRIGGER_DUR: 0.016 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 19.57 [sigma]
MAGE_SIGNIF: 7.27 [sigma]
LC_URL: sw00501752000msb.lc
SUN_POSTN: 158.05d {+10h 32m 12s} +9.20d {+09d 12' 17"}
SUN_DIST: 121.62 [deg] Sun_angle= -8.1 [hr] (East of Sun)
MOON_POSTN: 167.19d {+11h 08m 46s} +0.09d {+00d 05' 28"}
MOON_DIST: 111.44 [deg]
MOON_ILLUM: 1 [%]
GAL_COORDS: 23.26, -0.34 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 278.90, 14.42 [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 = 18.85,-20.57 [deg]

From gcncirc@capella2.gsfc.nasa.gov Mon Aug 29 17:07:33 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: Swift detection of an SGR burst from Swift J1834.9-0846
To: khurley@ssl.berkeley.edu
Date: Mon, 29 Aug 2011 20:08:54 -0400 (EDT)
X-Ucb-Scan-Signature: 1460cf18e38a9c21ele014b3aa60b37619b1370
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 12316
SUBJECT: Swift detection of an SGR burst from Swift J1834.9-0846
DATE: 11/08/30 00:08:52 GMT
FROM: David Palmer at LANL <palmer@lanl.gov>

E. A. Hoversten (PSU), S. D. Barthelmy (GSFC),
W. H. Baumgartner (GSFC/UMBC), J. R. Cummings (NASA/UMBC),
C. Gronwall (PSU), D. Grupe (PSU), J. A. Kennea (PSU),
H. A. Krimm (CRESST/GSFC/USRA), D. M. Palmer (LANL),
C. J. Saxton (UCL-MSSL), C. A. Swenson (PSU),
E. Troja (NASA/GSFC/ORAU), C. A. Wolf (PSU) and B.-B. Zhang (PSU)
report on behalf of the Swift Team:

At 23:41:12 UT, the Swift Burst Alert Telescope (BAT) triggered on
Swift J1834.9-0846 (trigger=501752). Swift will have a delayed slew
due to the Earth limb. The BAT on-board calculated location is
RA, Dec 278.721, -8.751 which is

RA(J2000) = 18h 34m 53s
Dec(J2000) = -08d 45' 04"

with an uncertainty of 3 arcmin (radius, 90% containment, including
systematic uncertainty). This is less than 1 arcmin from the position
of Swift J1834.9-0846. BAT has detected this source several times since
August 7, 2011 (D'Elia et al. GCN Circ #12253). The BAT light curve
showed a single short soft peak with a duration of about 0.016 sec. The
peak count rate was ~3200 counts/sec (15-350 keV), at ~0 sec after the
trigger.

Due to an observing constraint, Swift will not slew until
T0+45.7 minutes. There will be no XRT or UVOT data until
this time.

Burst Advocate for this burst is E. A. Hoversten (hoversten AT astro.psu.edu).
Please contact the BA by email if you require additional information
regarding Swift followup of this burst. In extremely urgent cases, after
trying the Burst Advocate, you can contact the Swift PI by phone (see
Swift TOO web site for information: <http://www.swift.psu.edu/too.html>.)

From gcncirc@capella2.gsfc.nasa.gov Tue Aug 30 06:14:56 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: SGR Swift J1834.9-0846: Swift-BAT refined analysis of trigger 501752
cc: khurley@ssl.berkeley.edu
Date: Tue, 30 Aug 2011 09:16:17 -0400 (EDT)
X-Ucb-Scan-Signature: da69398876794f37b9c56656aa55adc9cc568978
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 12317
SUBJECT: SGR Swift J1834.9-0846: Swift-BAT refined analysis of trigger 501752
DATE: 11/08/30 13:16:15 GMT
FROM: Scott Barthelmy at NASA/GSFC <scott@lheamail.gsfc.nasa.gov>

S. D. Barthelmy (GSFC), W. H. Baumgartner (GSFC/UMBC), J. R. Cummings (GSFC/UMBC),
E. E. Fenimore (LANL), N. Gehrels (GSFC), E. A. Hoversten (PSU),
H. A. Krimm (GSFC/USRA), C. B. Markwardt (GSFC), D. M. Palmer (LANL),
T. Sakamoto (GSFC/UMBC), G. Sato (ISAS), M. Stamatikos (OSU),
J. Tueller (GSFC), T. N. Ukwatta (MSU)
(i.e. the Swift-BAT team):

Using the data set from T-61 to T+242 sec from recent telemetry downlinks,
we report further analysis of SGR Swift J1834.9-0846 (BAT trigger #501752)
(Hoversten, et al., GCN Circ. 12316). The BAT ground-calculated position is
RA, Dec = 278.710, -8.770 deg, which is

RA(J2000) = 18h 34m 50.3s
Dec(J2000) = -08d 46' 11.8"

with an uncertainty of 3.1 arcmin, (radius, sys+stat, 90% containment).
The partial coding was 57%.

The mask-weighted light curve shows a single spike with a width of ~ 0.016 sec
T90 (15-350 keV) is 0.012 ± 0.001 sec (estimated error including systematics).

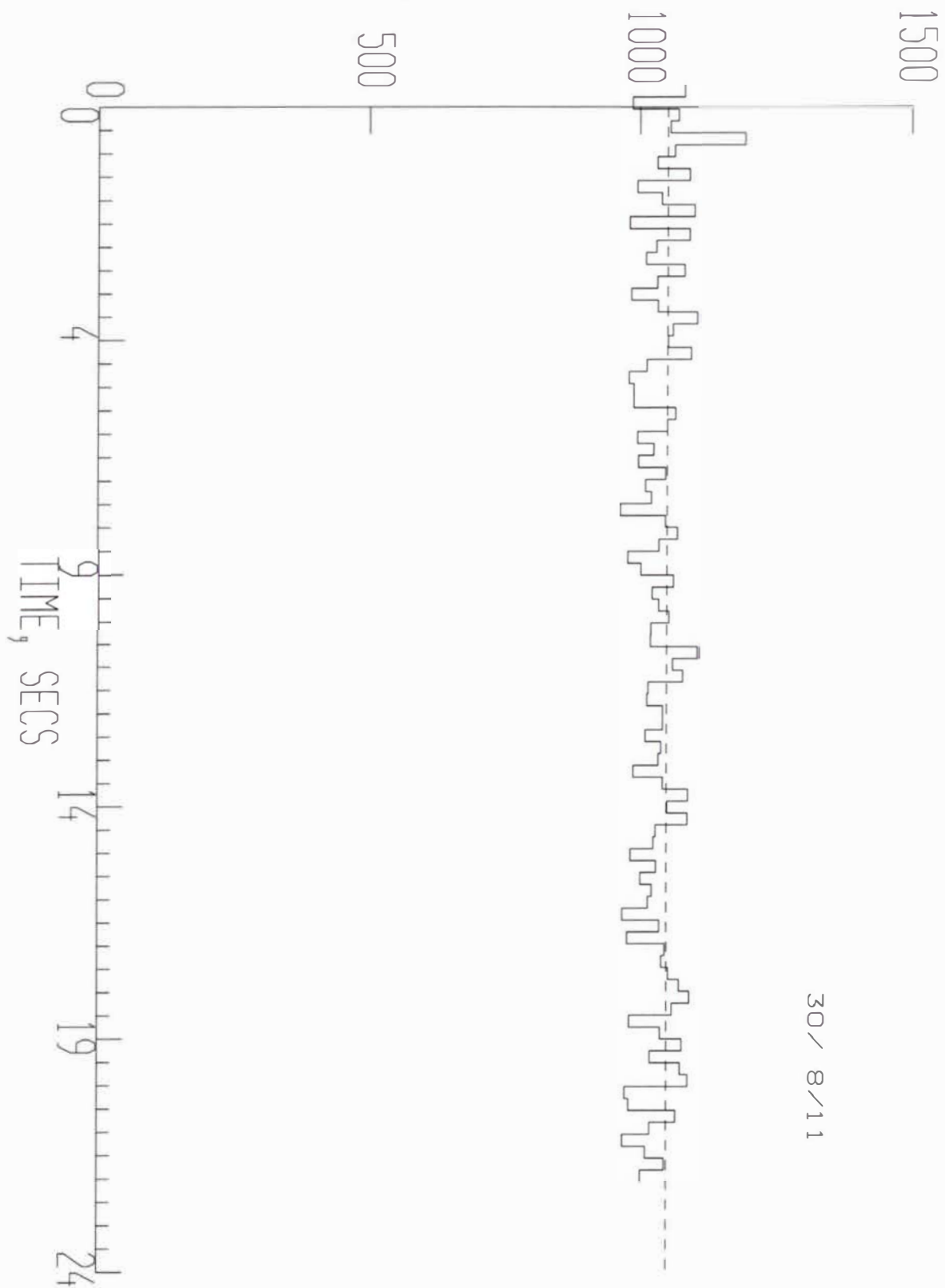
The time-averaged spectrum from T+0.000 to T+0.012 sec is best fit by a simple
power-law model. The power law index of the time-averaged spectrum is
 3.15 ± 0.63 . The fluence in the 15-150 keV band is $2.8 \pm 1.2 \times 10^{-9}$ erg/cm².
The 1-sec peak photon flux measured from T-0.49 sec in the 15-150 keV band
is 0.34 ± 0.18 ph/cm²/sec. All the quoted errors are at the 90% confidence
level.

The results of the batgrbproduct analysis are available at
http://gcn.gsfc.nasa.gov/notices_s/501752/BA/

SWIFT 29/08/11 85272.256

25- 100 keV

COUNTS/0.256 S

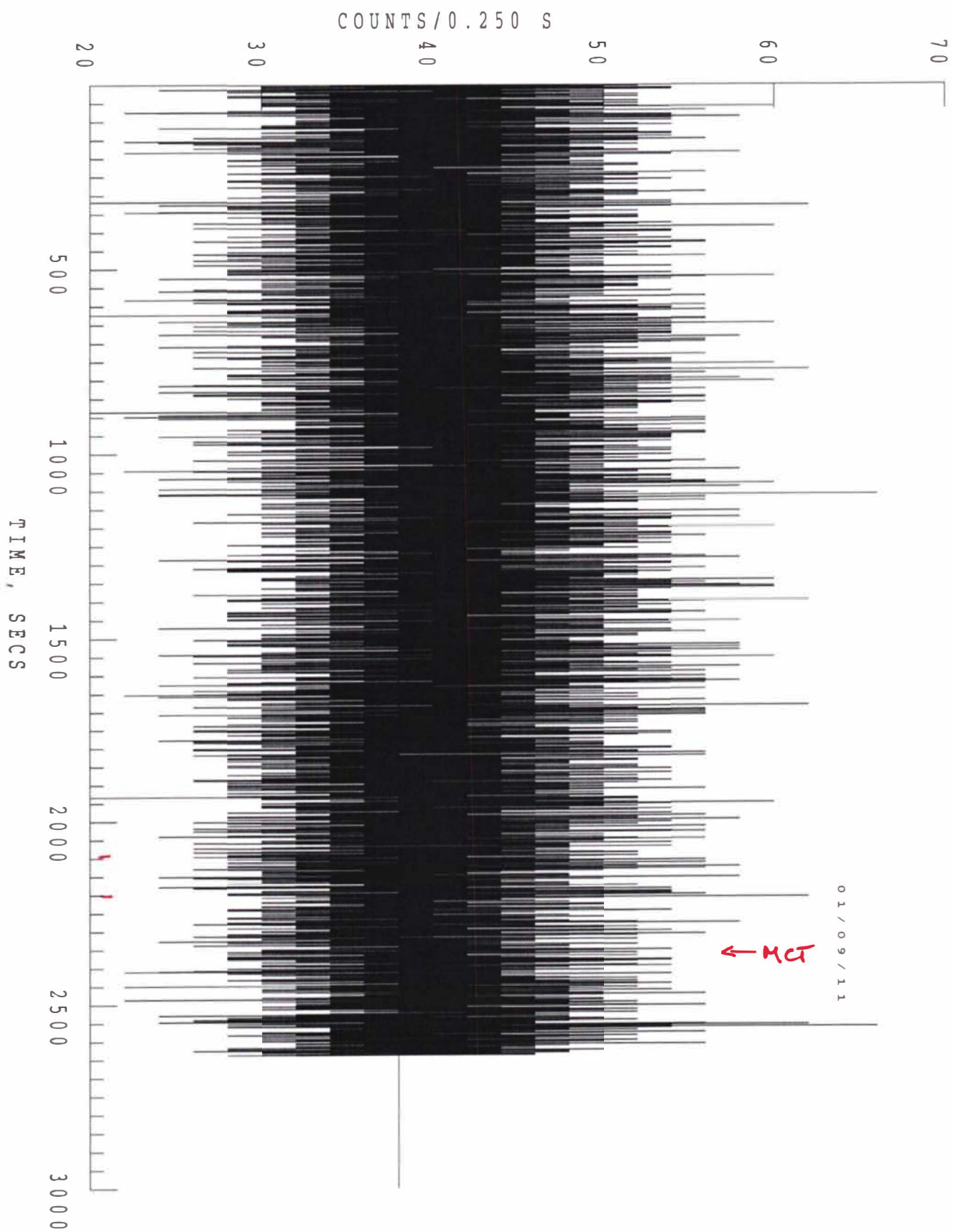


MS01

29/08/11

83933.043

50 - 3000 keV

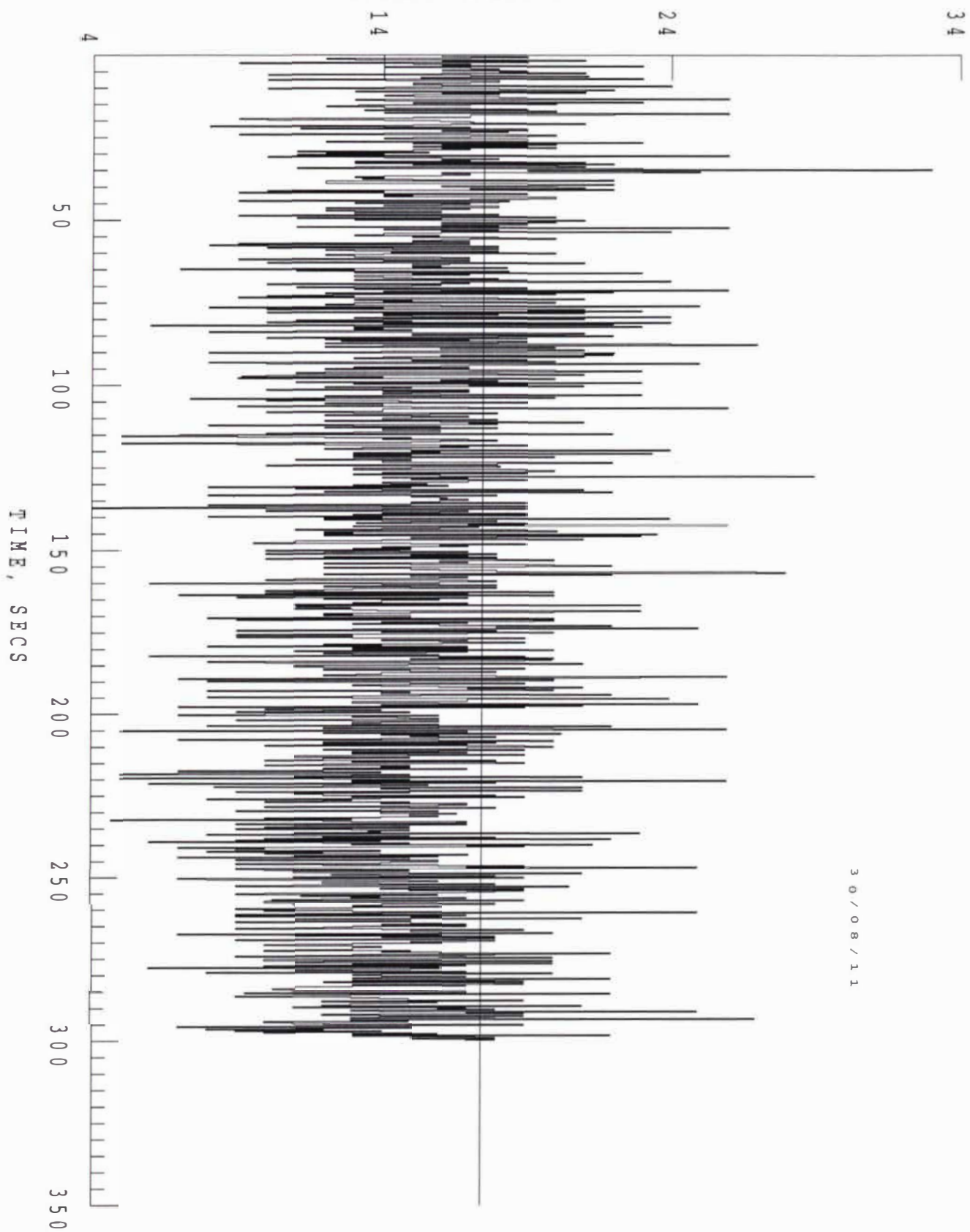


HESSI

29/08/11 85122.000 (SWIFT_20110829_85272)

25- 150 keV

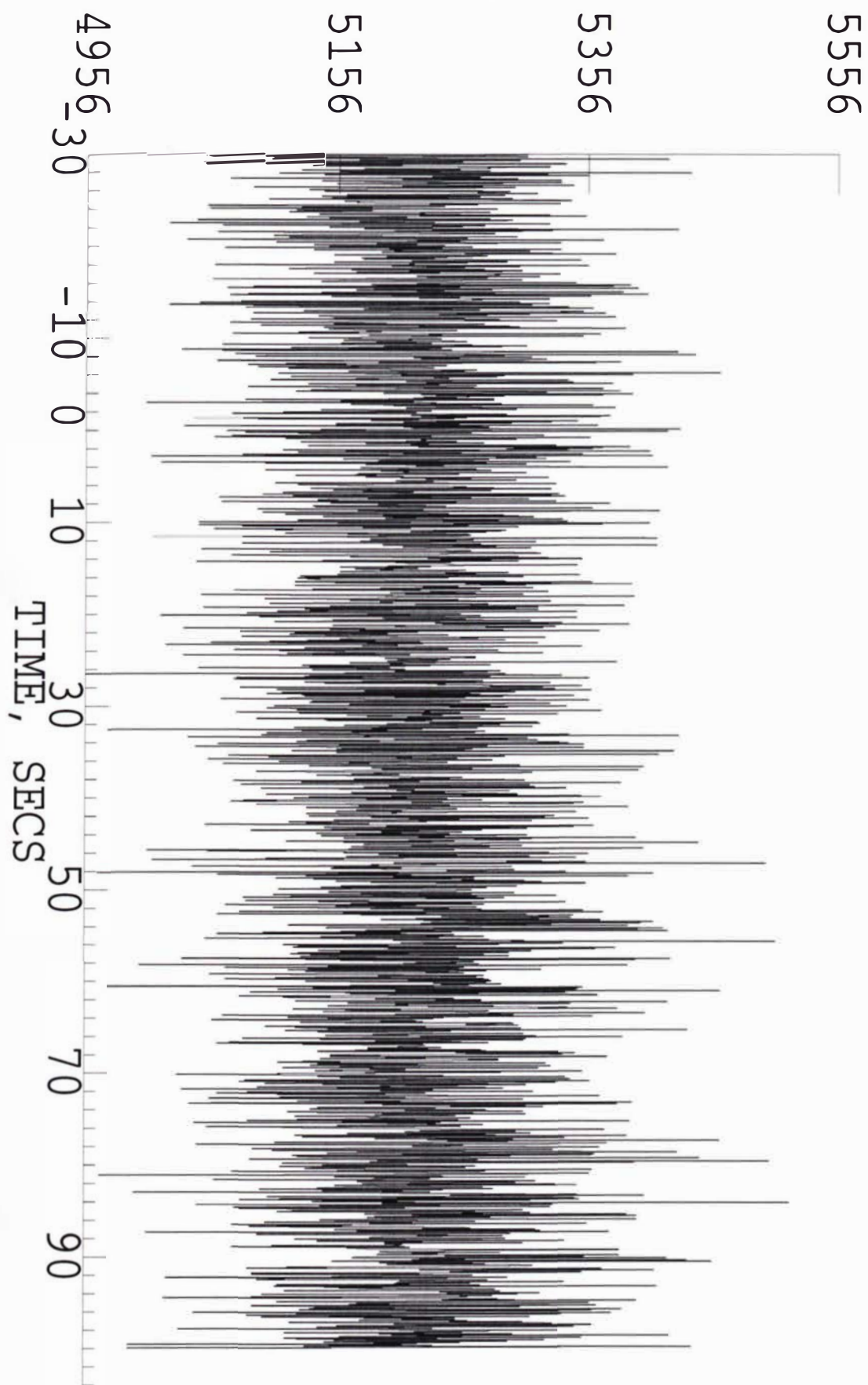
COUNTS/0.250 S

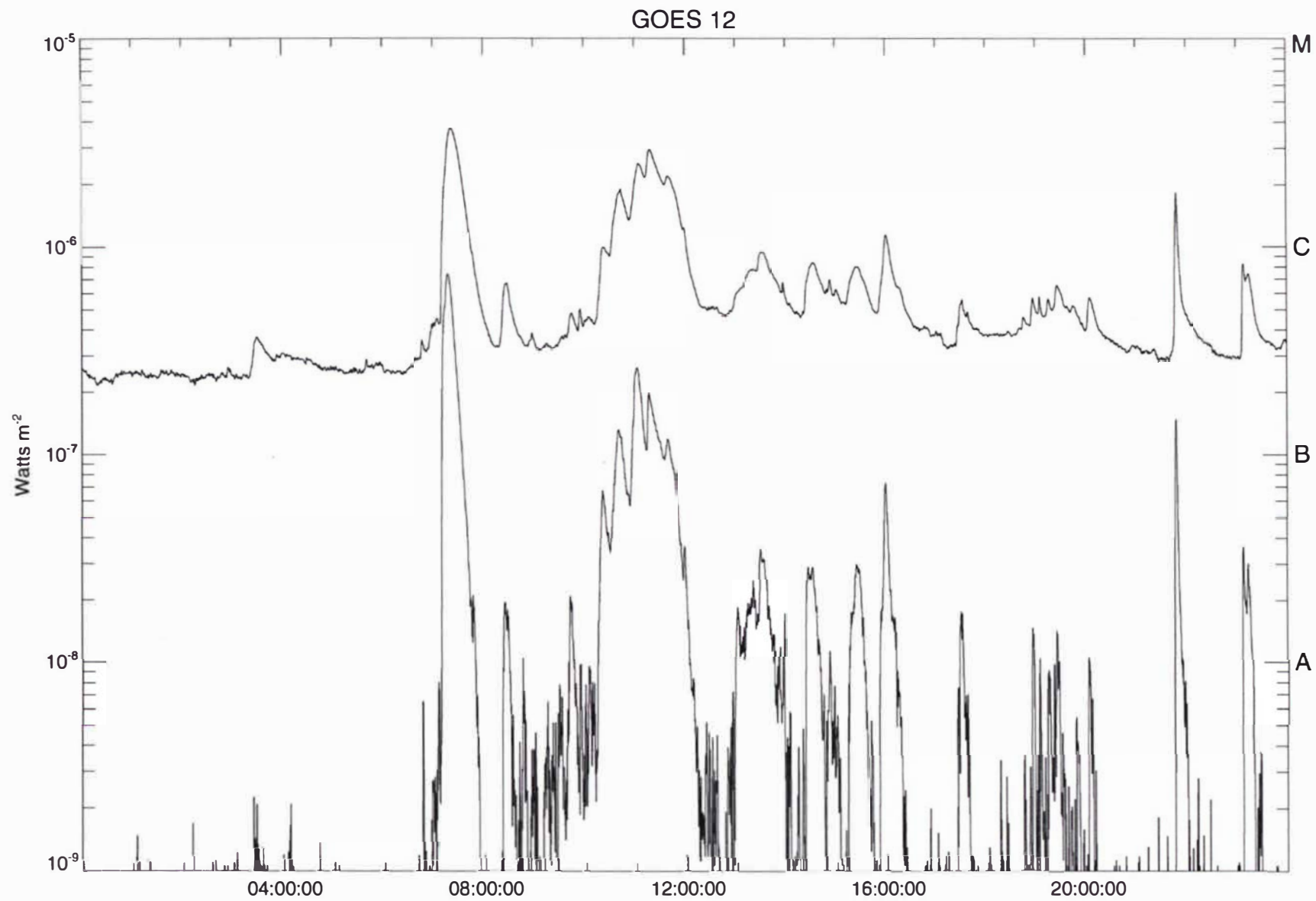


INTEGRAL 29/08/11 85271.993 23:41:11.9

100-10000 keV

COUNTS/ .050 S





Data Start: 11/08/29, 0000:09

Plot created: 11/09/01, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: Mar 25 2013

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?

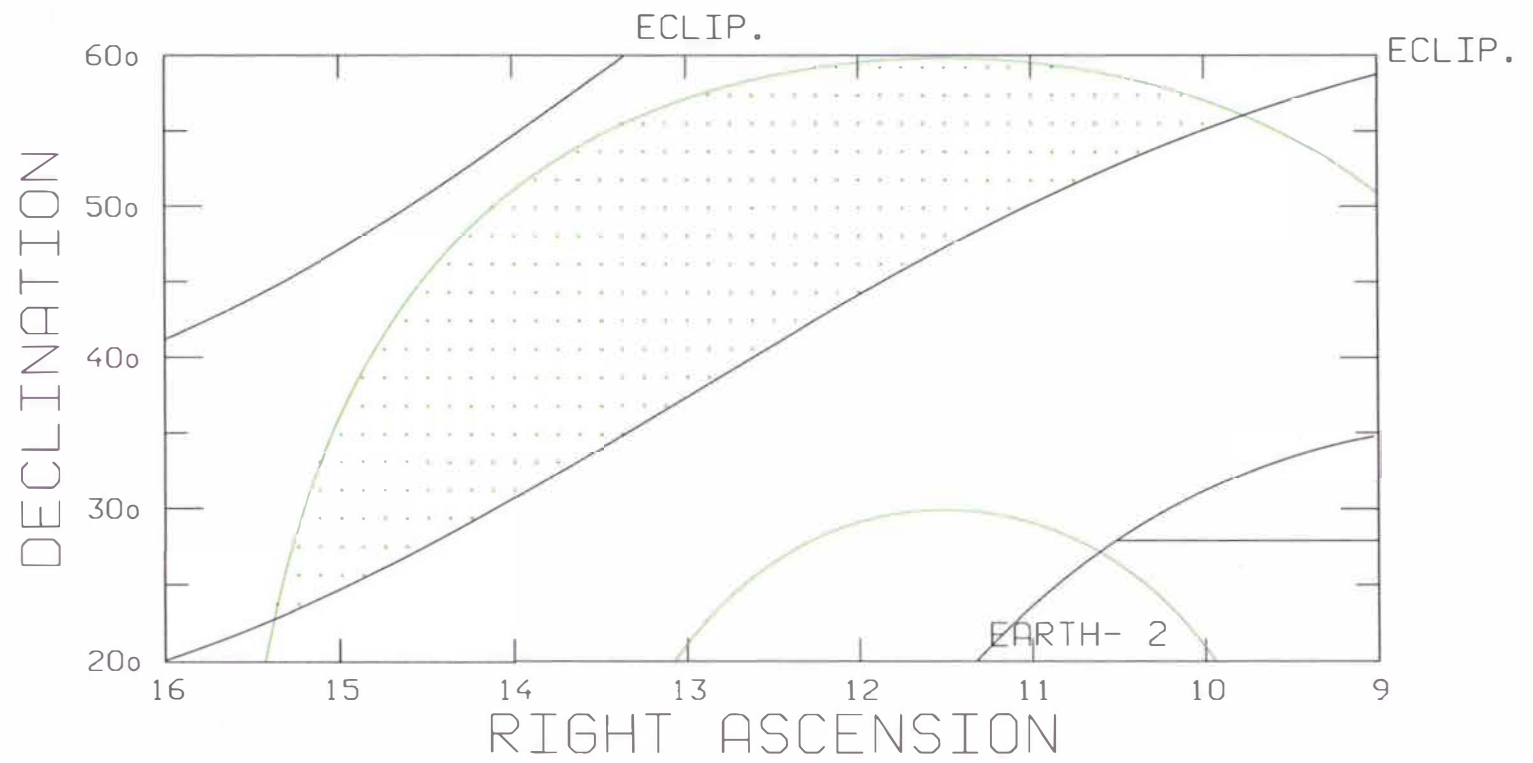
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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/spiaccs-online/spiaccs-ipnrc.pl>)

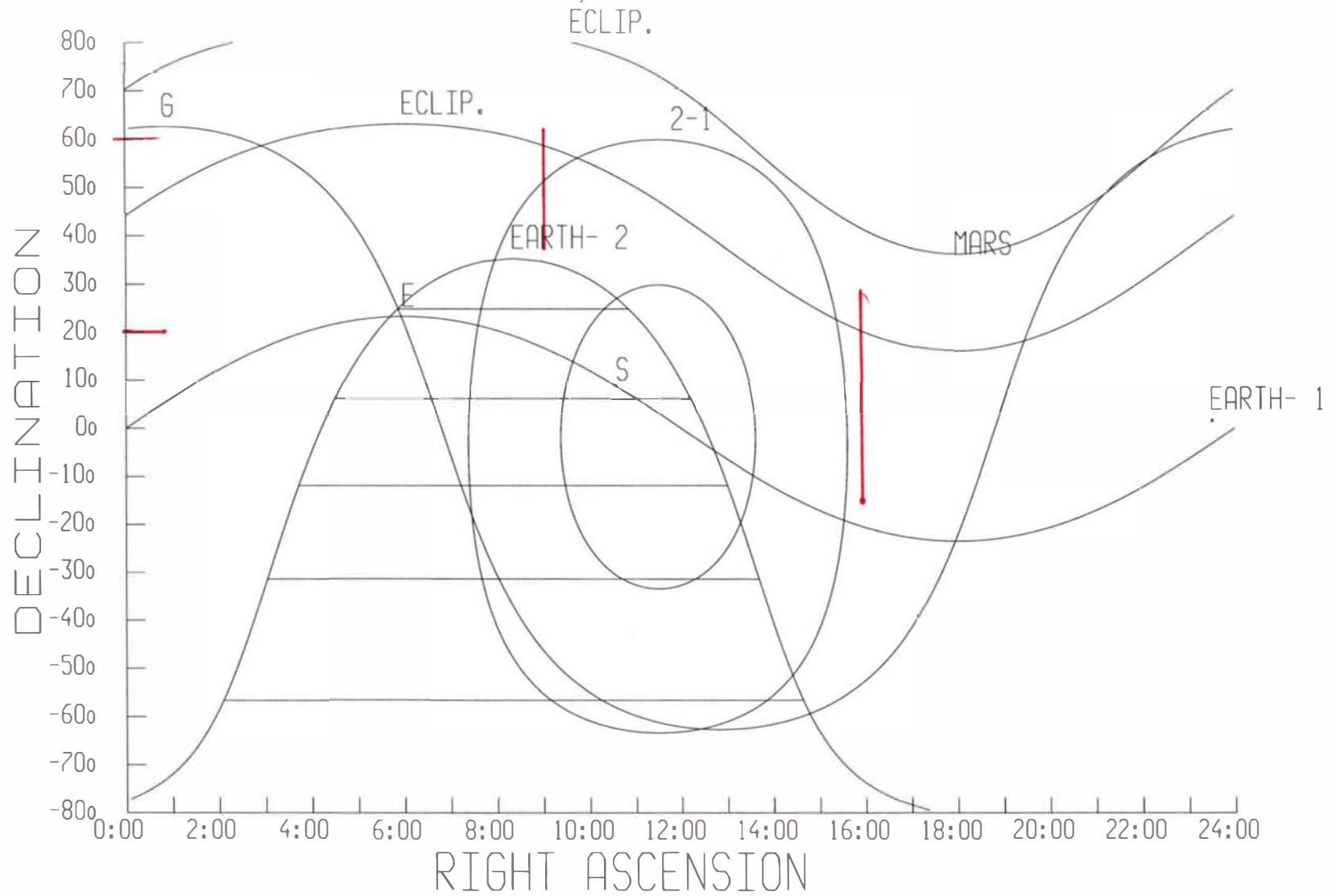
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

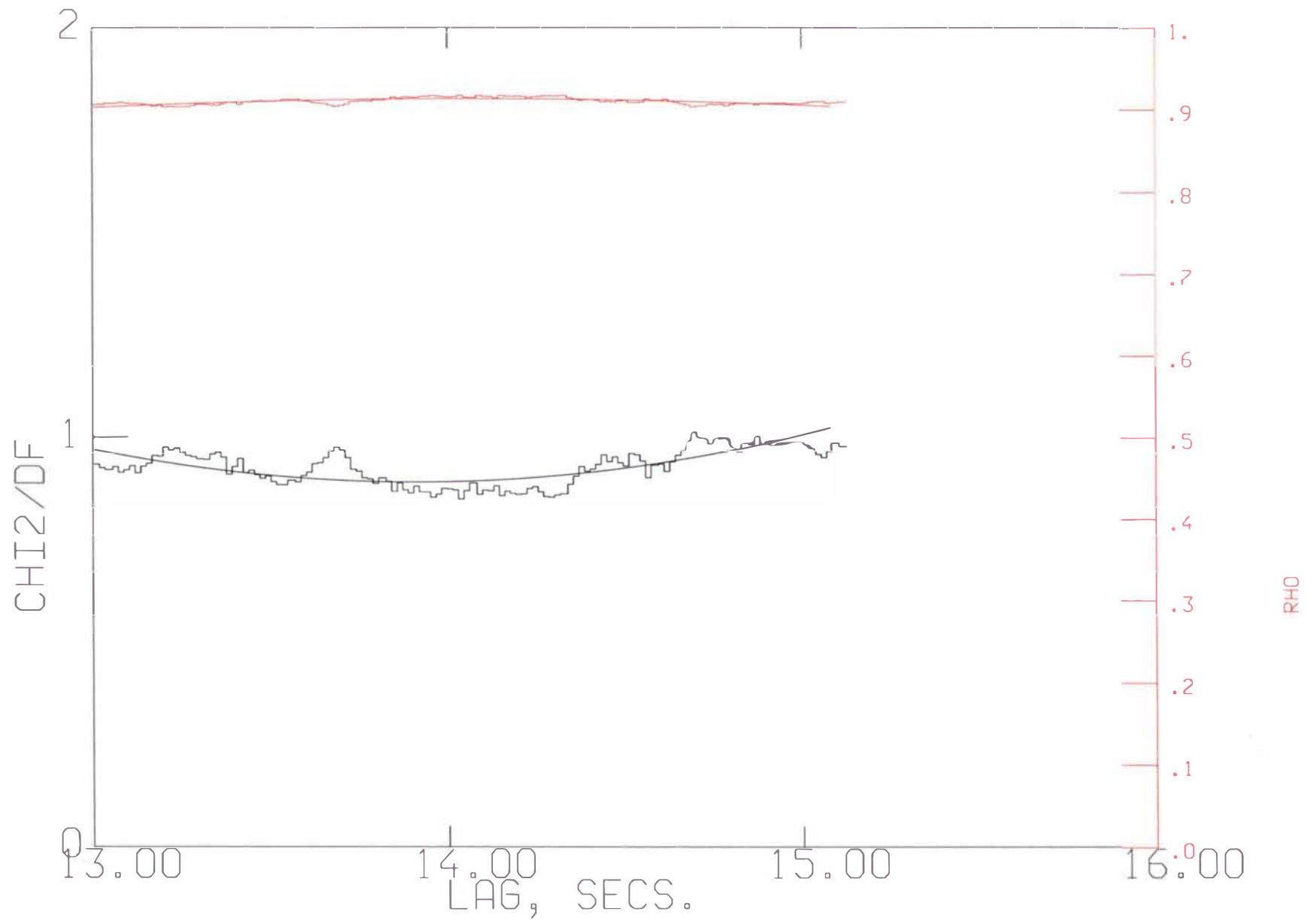


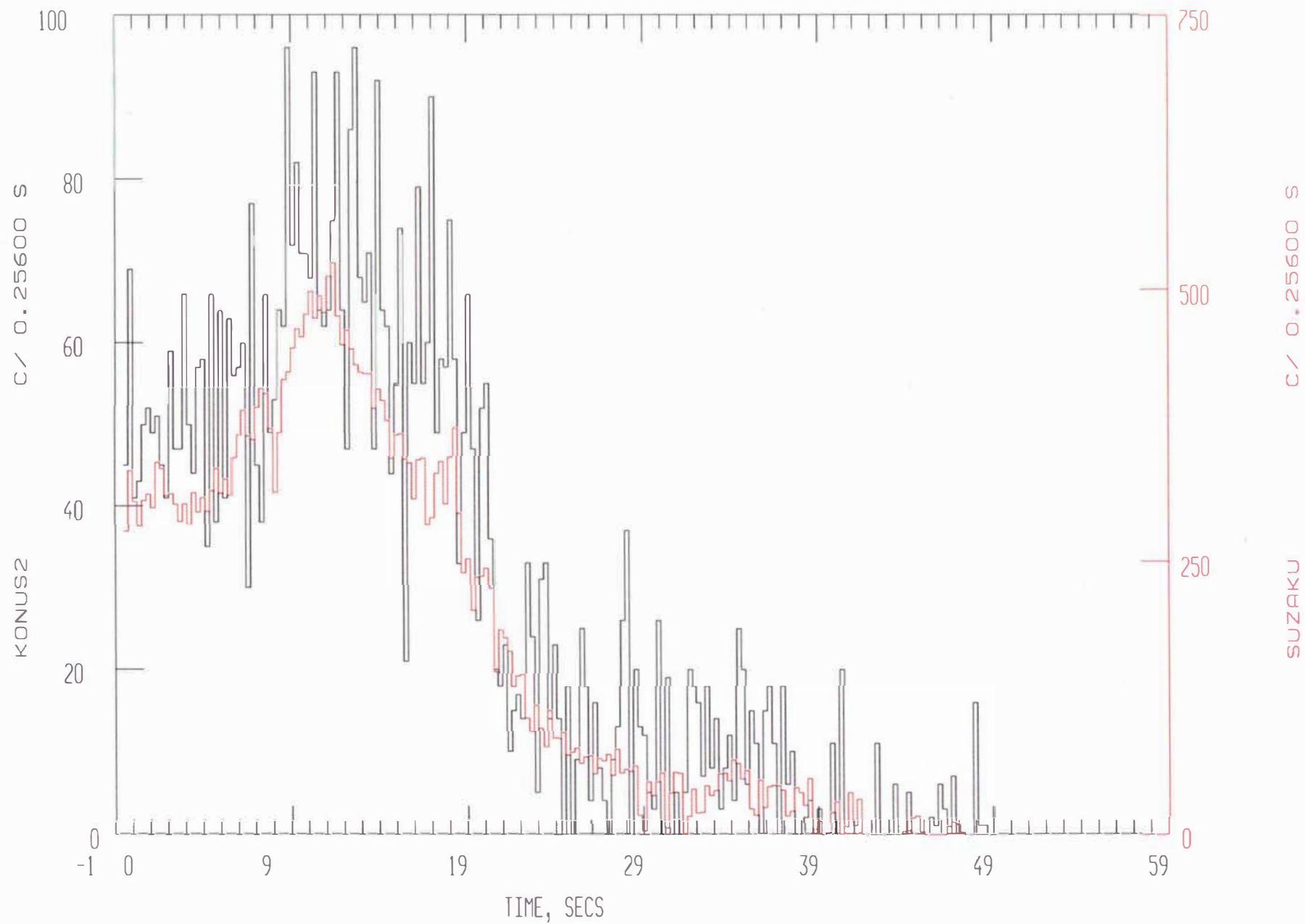
EVENT OF AUG 30, 2011 21:56

25/03/2013

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







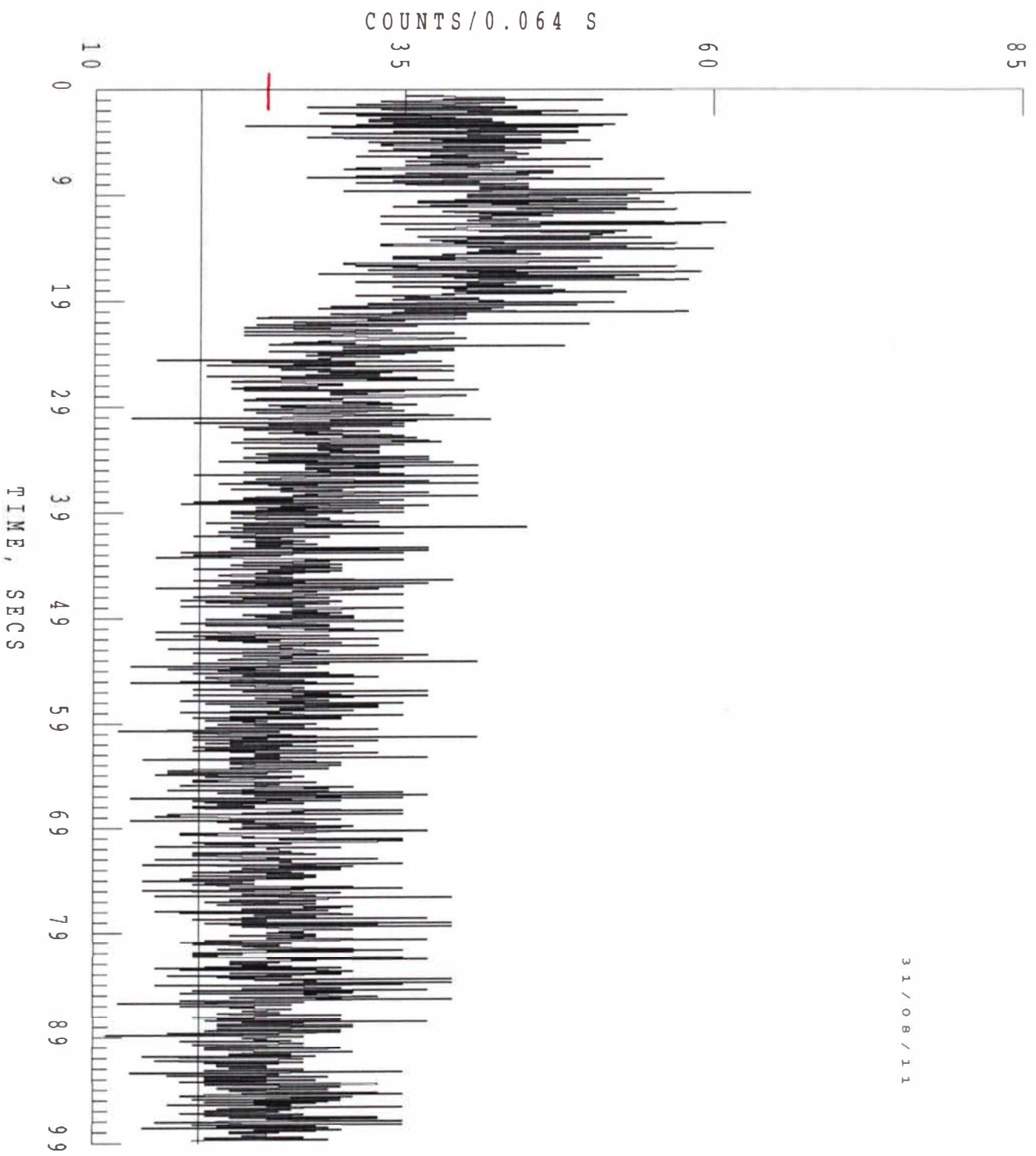
KONUS2

30/08/11

78996.253

21:56:11

50 - 200 keV



KONUS HRES 20110830 78996

TRIGGER TIME: 30/08/11 DOY 242 Julian 2455805.41431 UT = 21.943 21:56:36 (78996.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

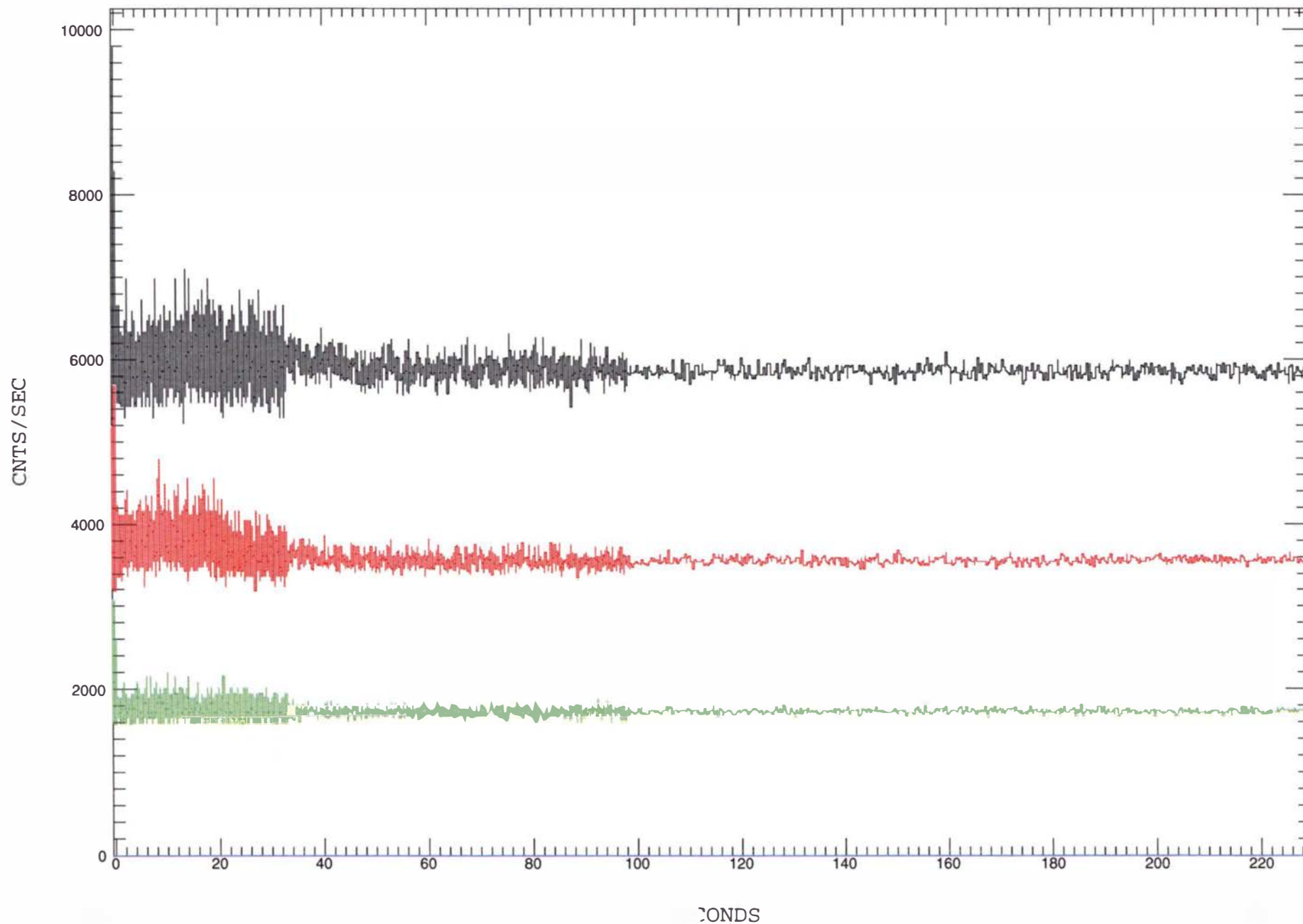
Chan 4 : [> 10 MeV]

Channel 1 + 4800

Channel 2 + 3200

Channel 3 + 1600

Channel 4 + 0

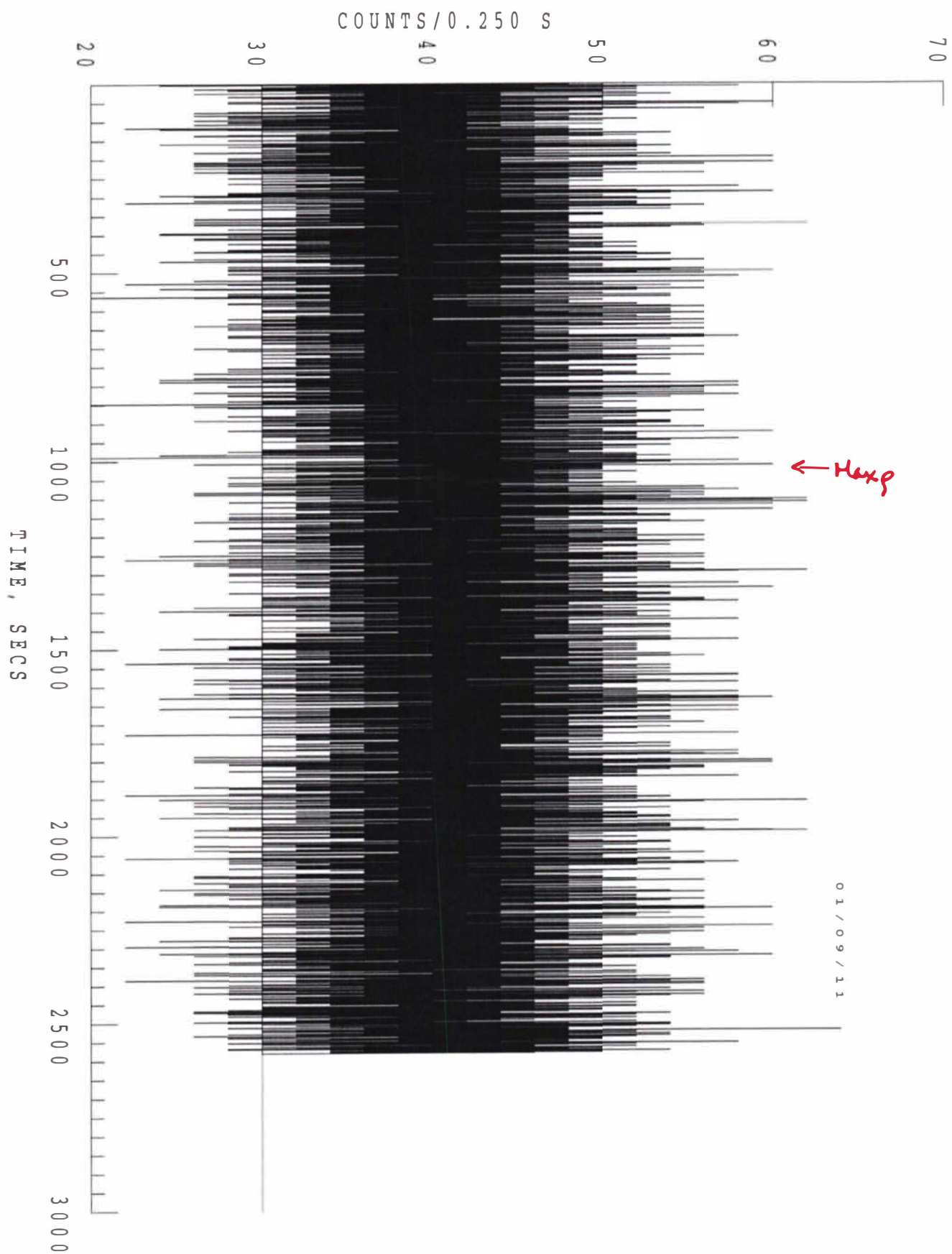


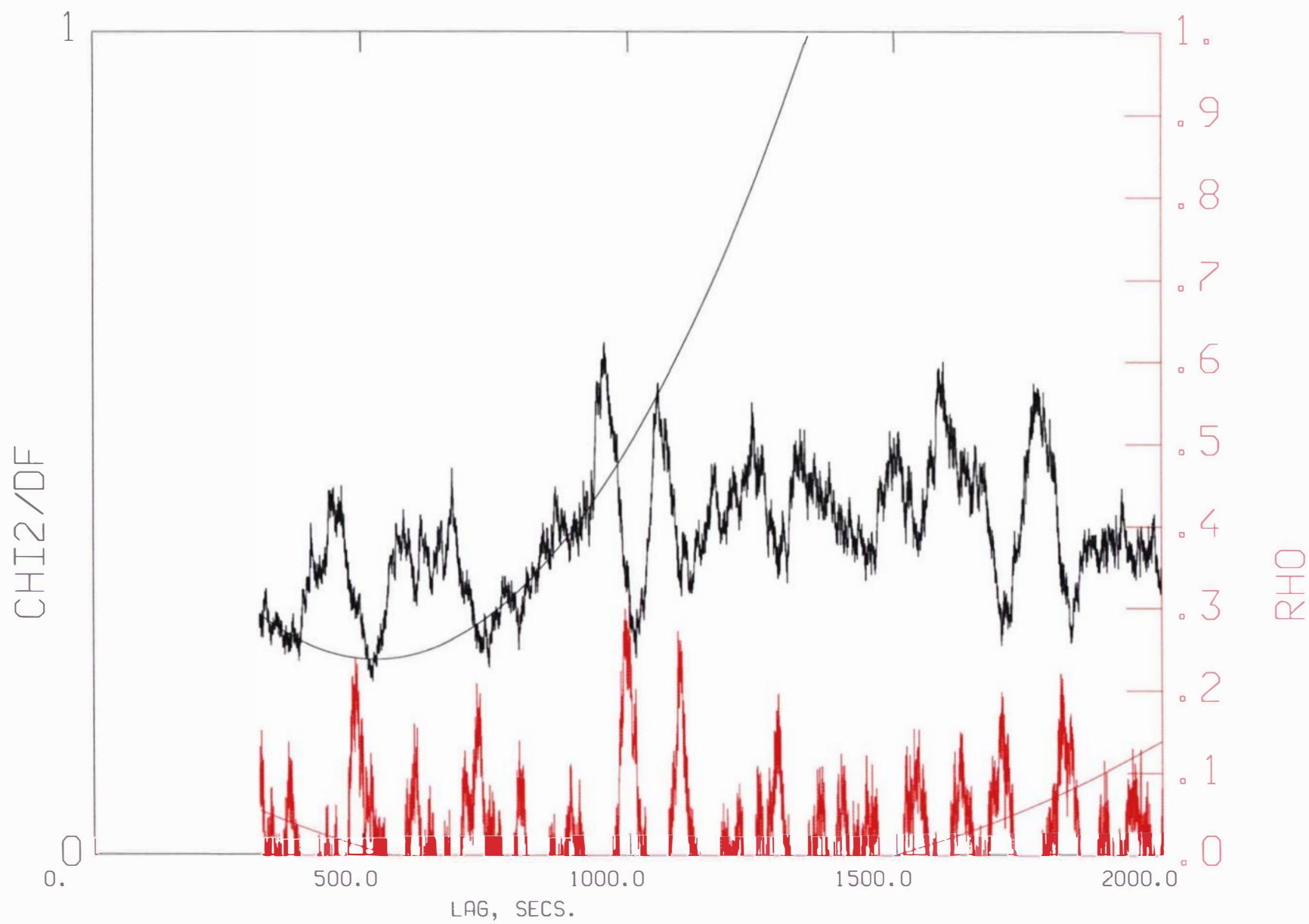
MS01

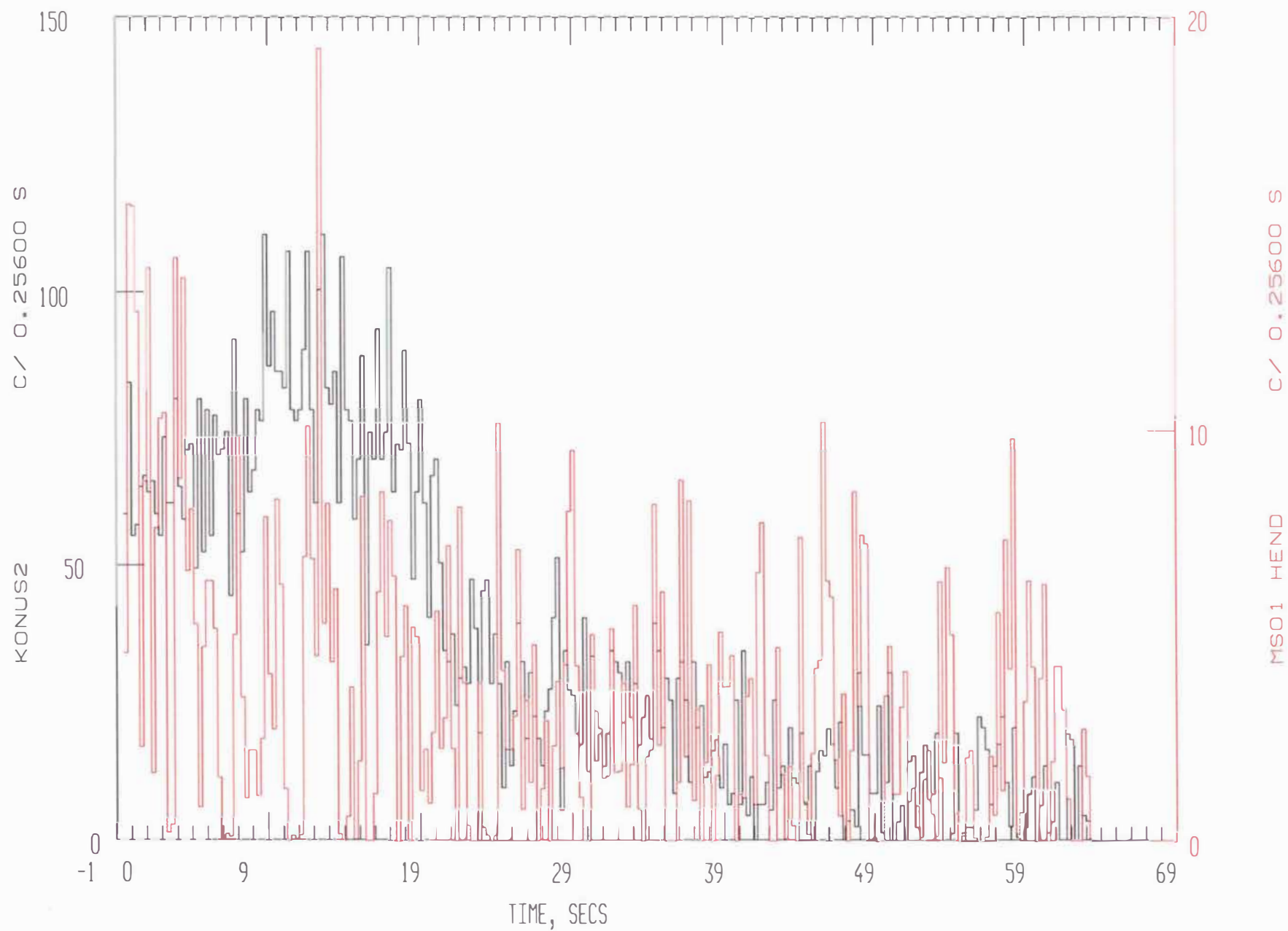
30/08/11

77691.678

50 - 3000 keV







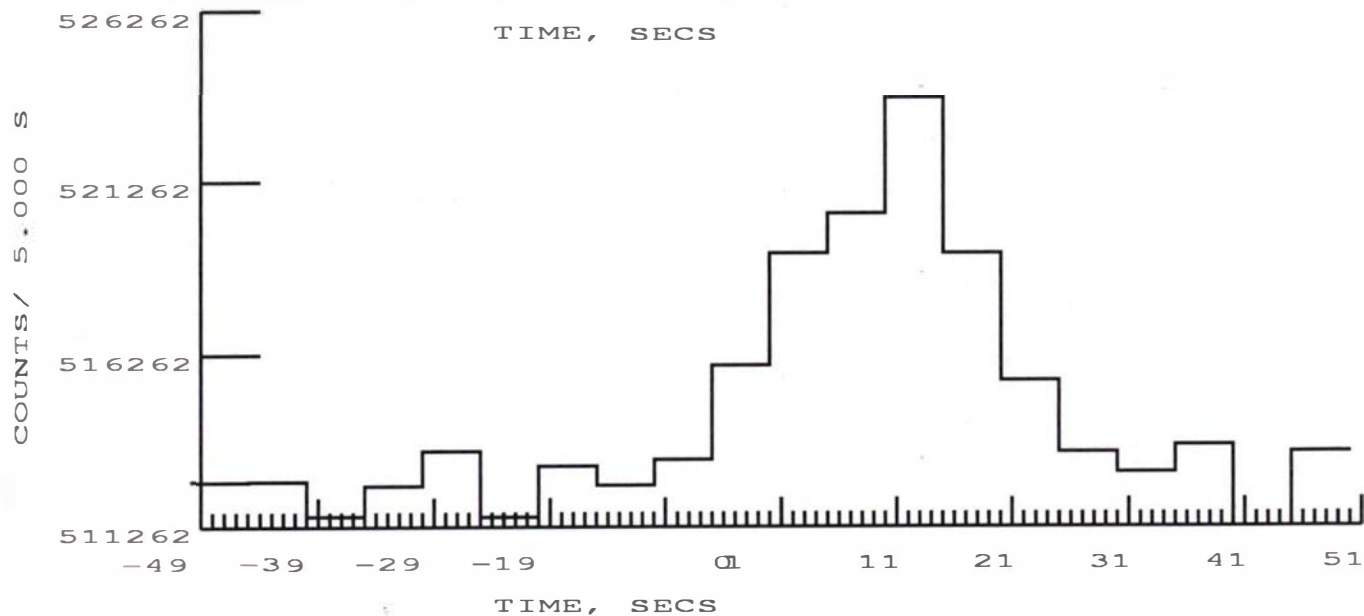
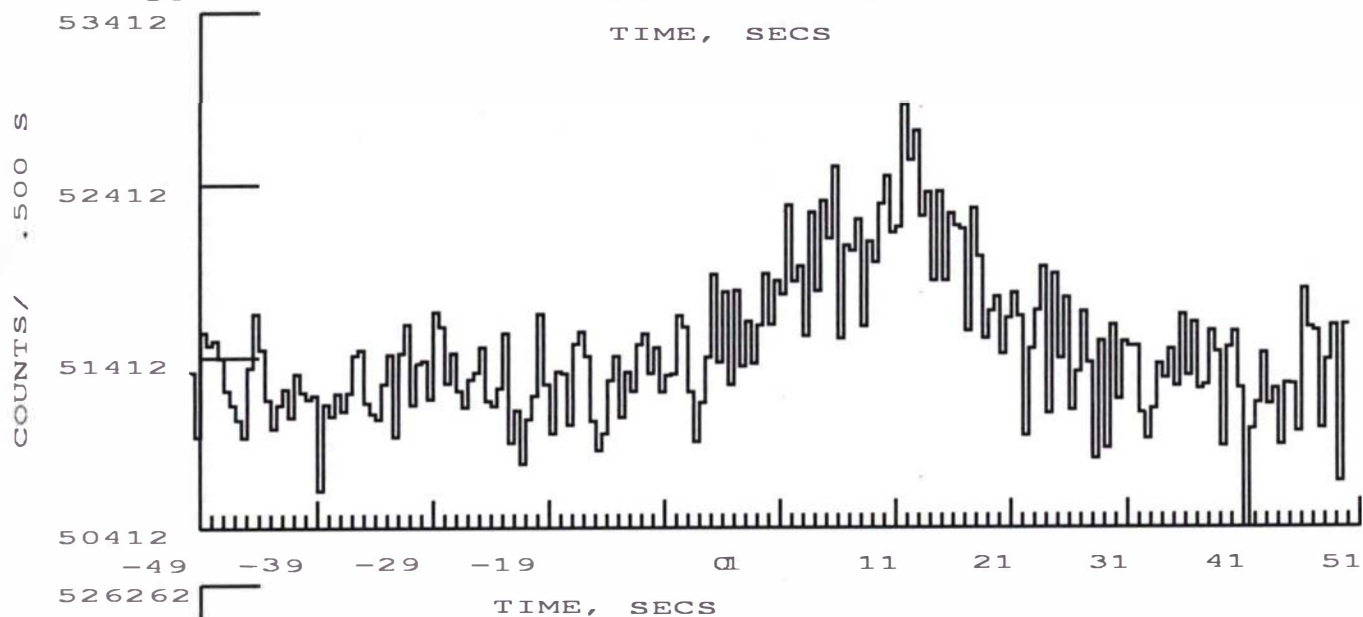
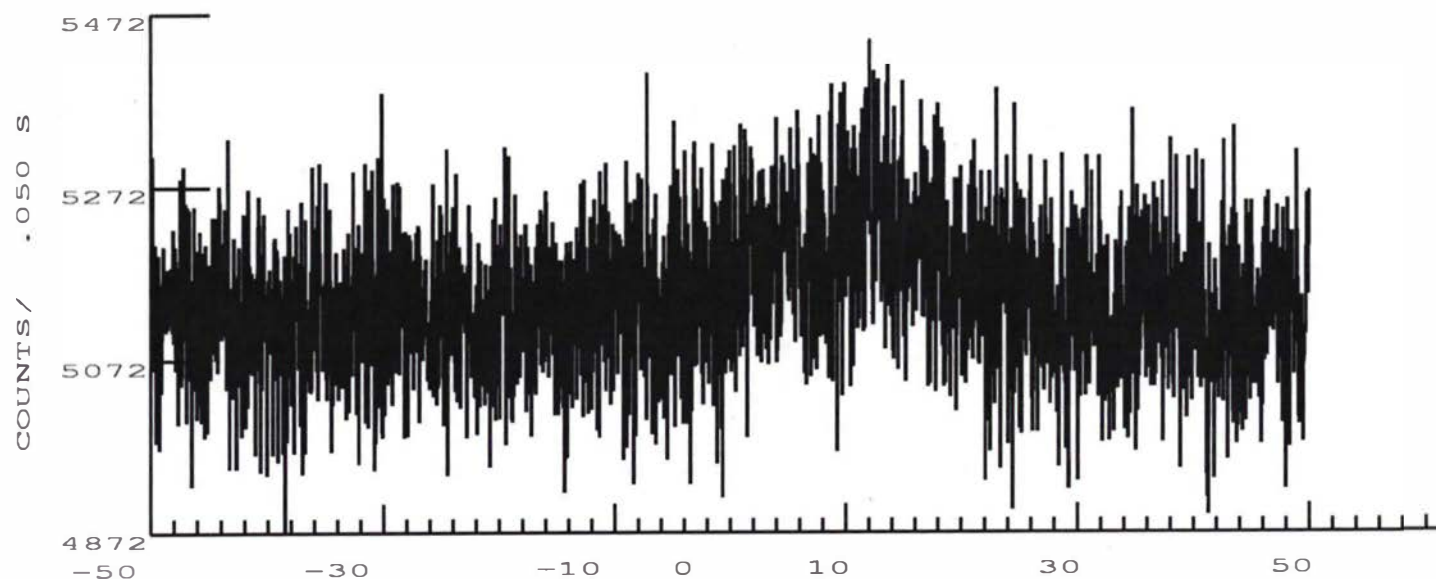
INTEGRAL

30/08/11

78996.000

21:56:36.0

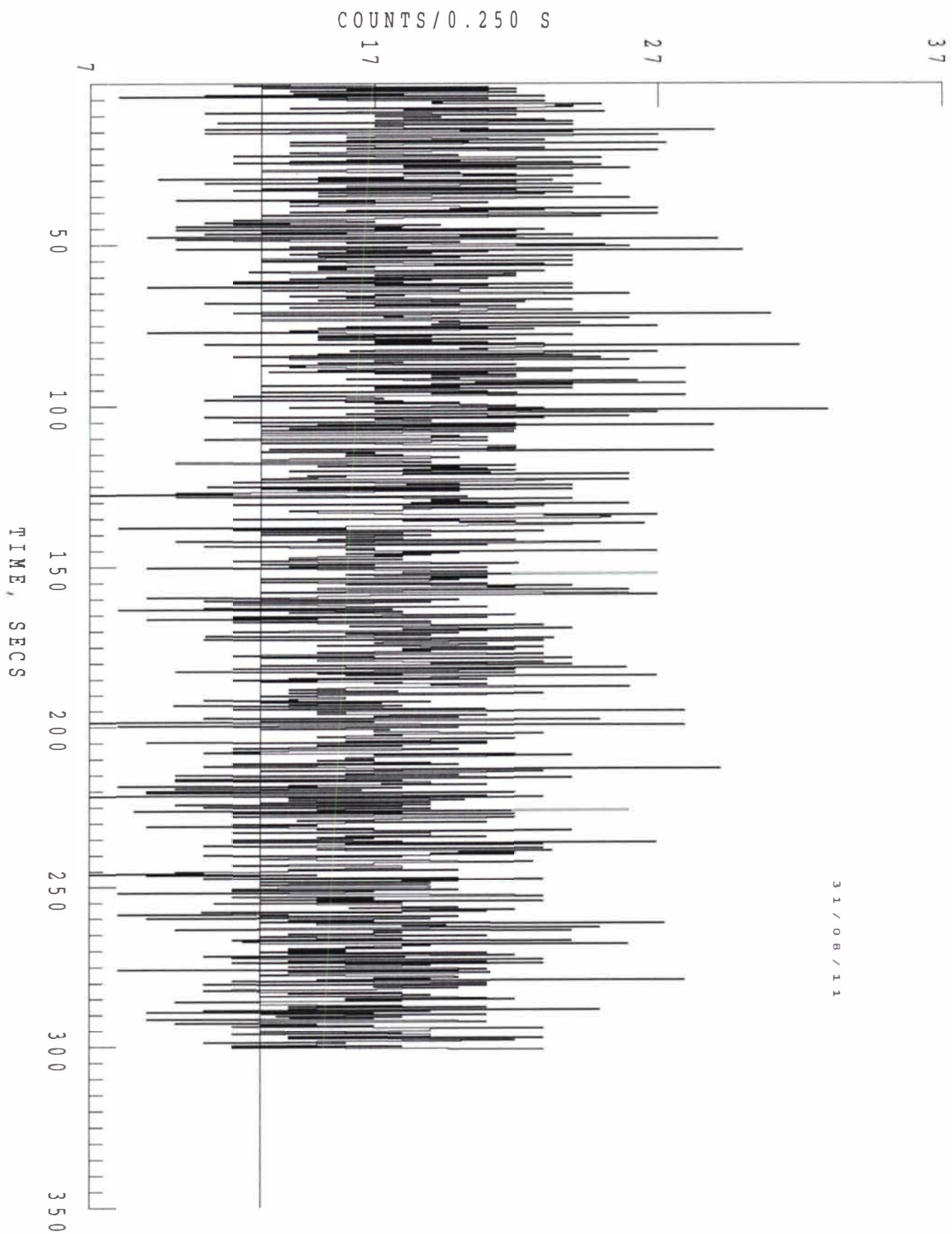
20/01/14



HESSI

30/08/11 78845.000 (KONUS2_20110830_78996)

25- 150 keV



Subject: [Ipn] BAT lightcurve for trigger at 110830_2156

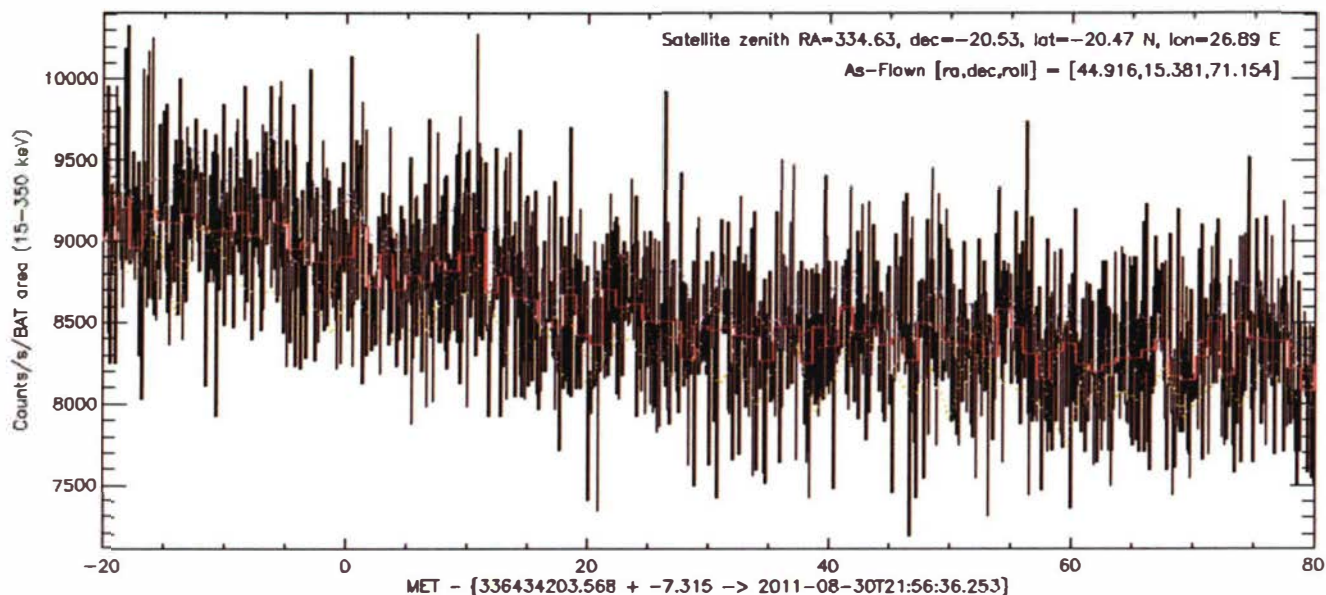
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 31 Aug 2011 02:16:18 -0600 (MDT)

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

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

/tmp/110830_2156.png



```
% /usr/local/bin/swinfo -o 336434203.568
Time(MET + UTC -> UT):      336434203.568 + -7.315 -> 2011-08-30T21:56:36.253
Swift Zenith(RA,dec):       334.63, -20.53
Swift Location(lon,lat,alt): 26.89 E, -20.47 N, 582 km
Obs Sequence Number:        00020183002
Obs Target Name:            GRB 110825A
Obs Date and Times:         2011-08-30 21:55:54 - 22:25:52
Obs Pointing(ra,dec,roll):  44.916, 15.381, 71.15
```

--
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.ssi.berkeley.edu/mailman/listinfo/ipn>

/tmp/110830_2156.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110830_2156_bat64ms_ipn

/tmp/110830_2156_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

SUZAKU

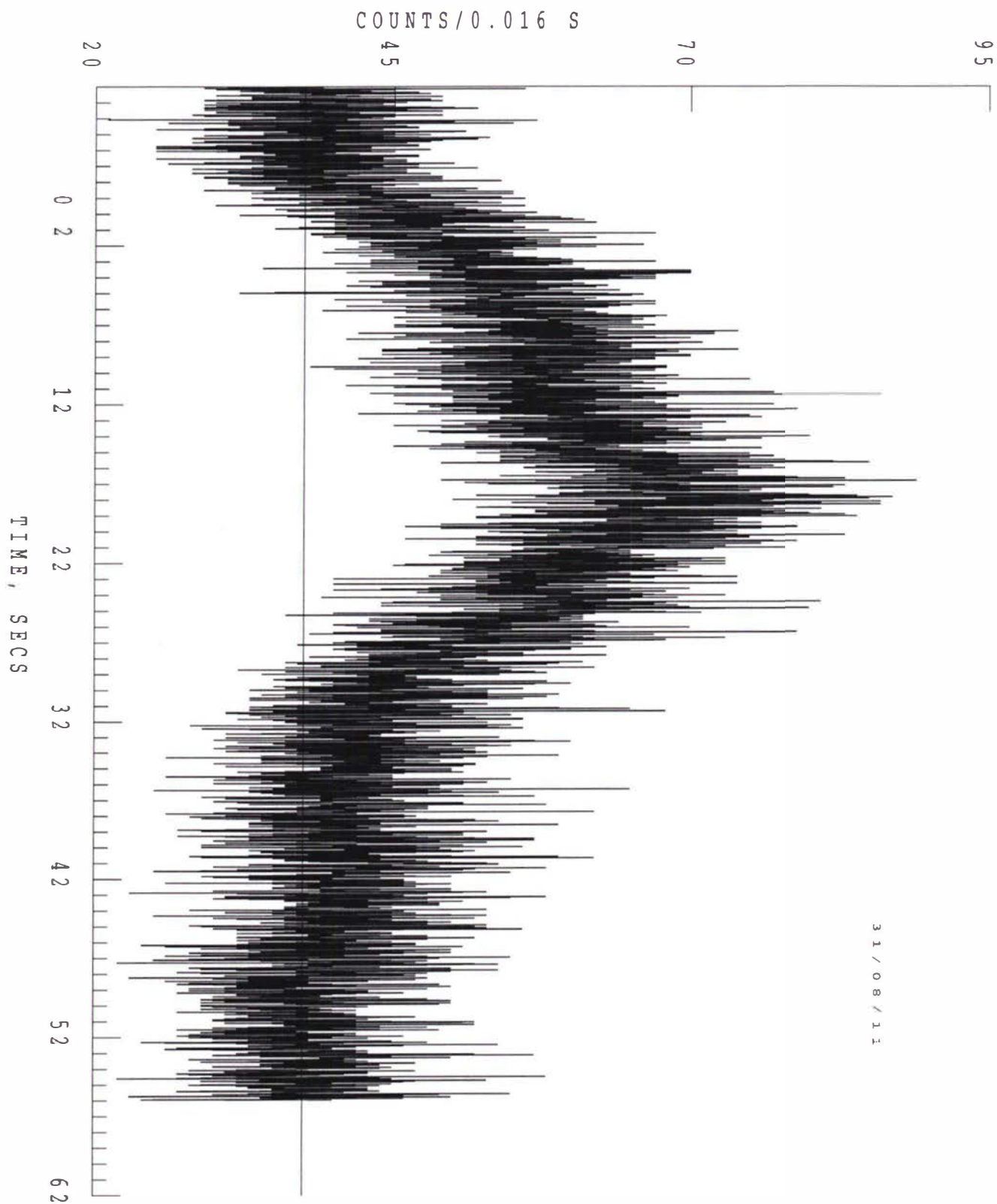
30 31/08/11

12572.835 03:29:32

50 - 240 keV

21:56:32

Not in Solar flare



From yamaoka@phys.aoyama.ac.jp Fri Sep 30 21:47:52 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Sat, 1 Oct 2011 13:48:54 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: Kevin Hurley <khurley@ssl.berkeley.edu>
Cc: yamaoka@phys.aoyama.ac.jp, ohno@hep01.hepl.hiroshima-u.ac.jp
Subject: Re: GRB110831?
X-Ucb-Scan-Signature: 9f1d979e7680c155ac56c879b9ef526bec228a0a
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Hi Kevin,

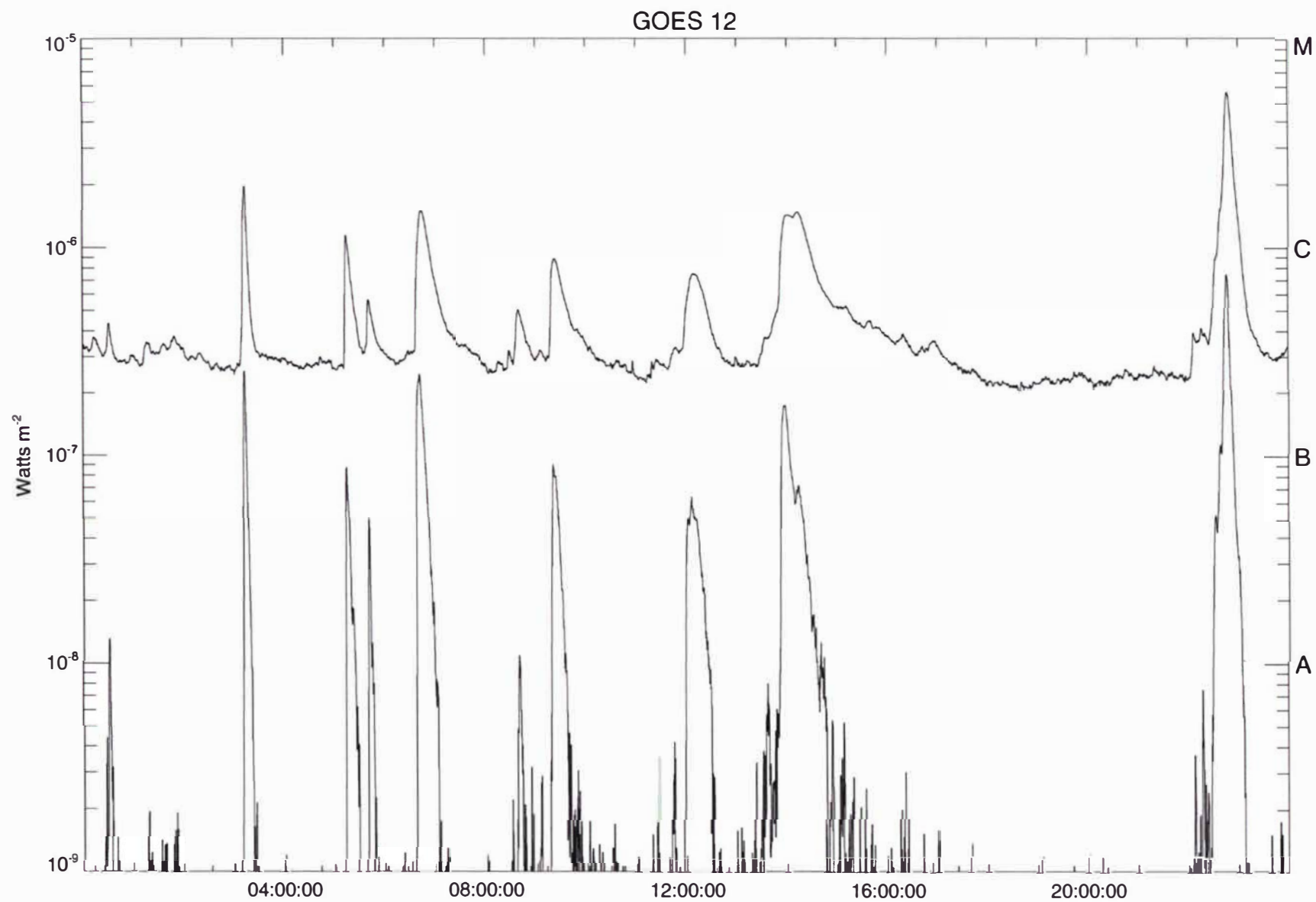
This burst is identical to the burst on
2011-08-30 21:56:32.836.
I will send data with correct time later.

Best wishes,
Kazu

On Fri, 30 Sep 2011 12:06:31 -0700 (PDT)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear Kazu,
>
> I have a time history for a Suzaku event on August 31 2011 at
> 12572 s. It is not in your list, but it looks like it could
> be real. Do you know what it is?

> Kevin



Data Start: 11/08/30, 0000:09

Plot created: 11/09/02, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

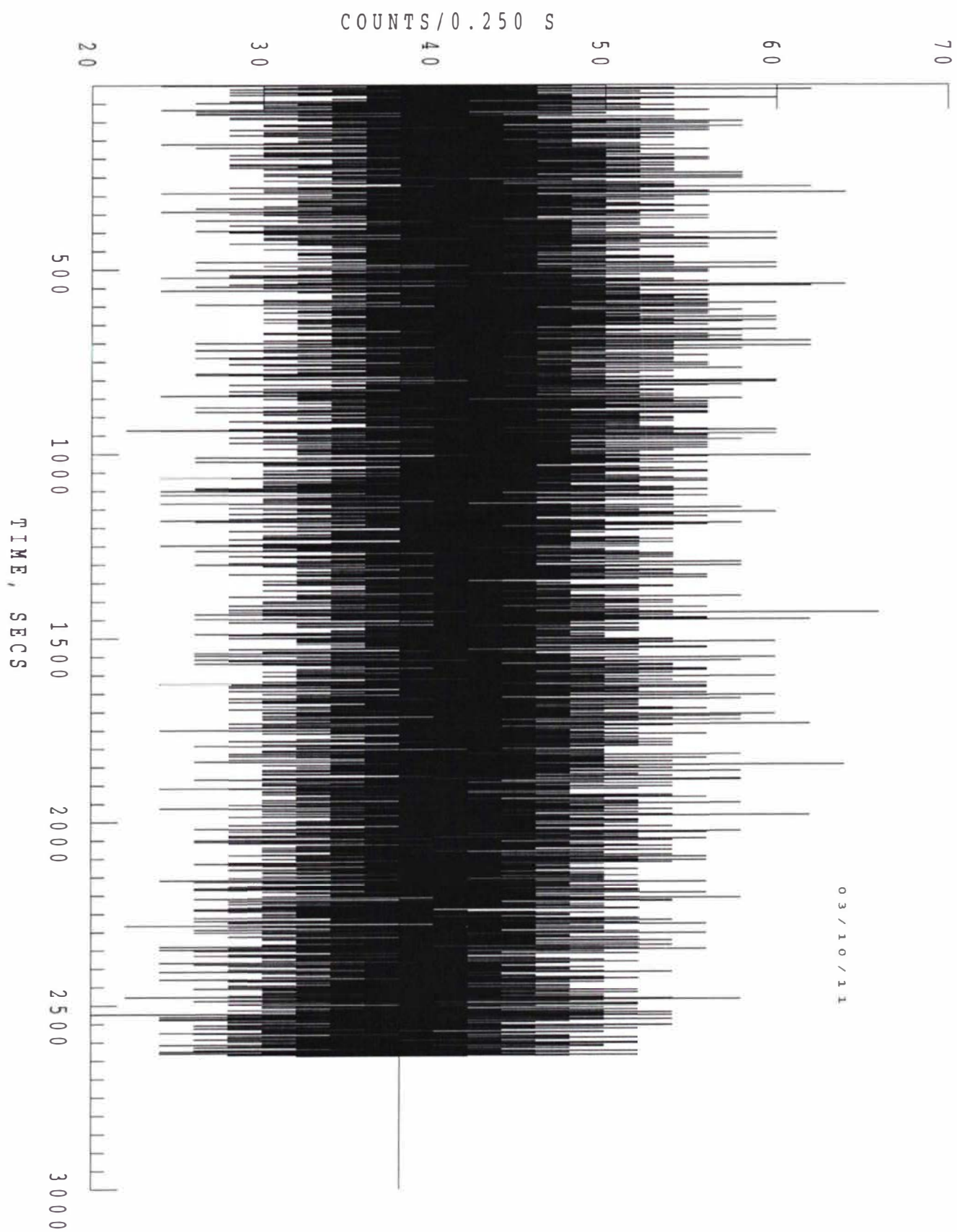
Sample average = 10

MS01

31/08/11

20571.060

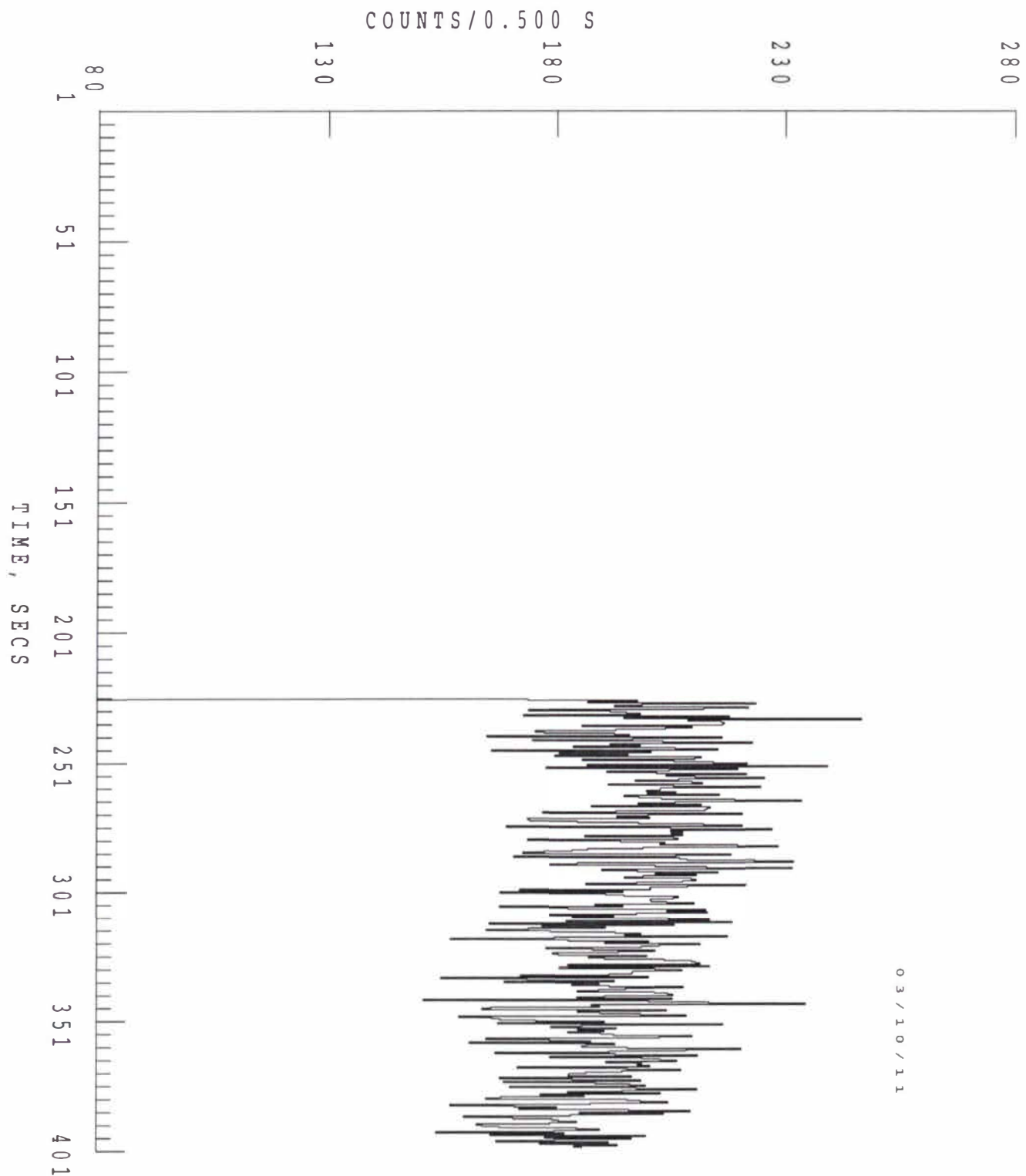
50 - 3000 keV



HESSI

31/08/11 21709.000 (SUZAKU_20110831_21909)

25- 150 keV



Date: Jul 20 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)? 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?

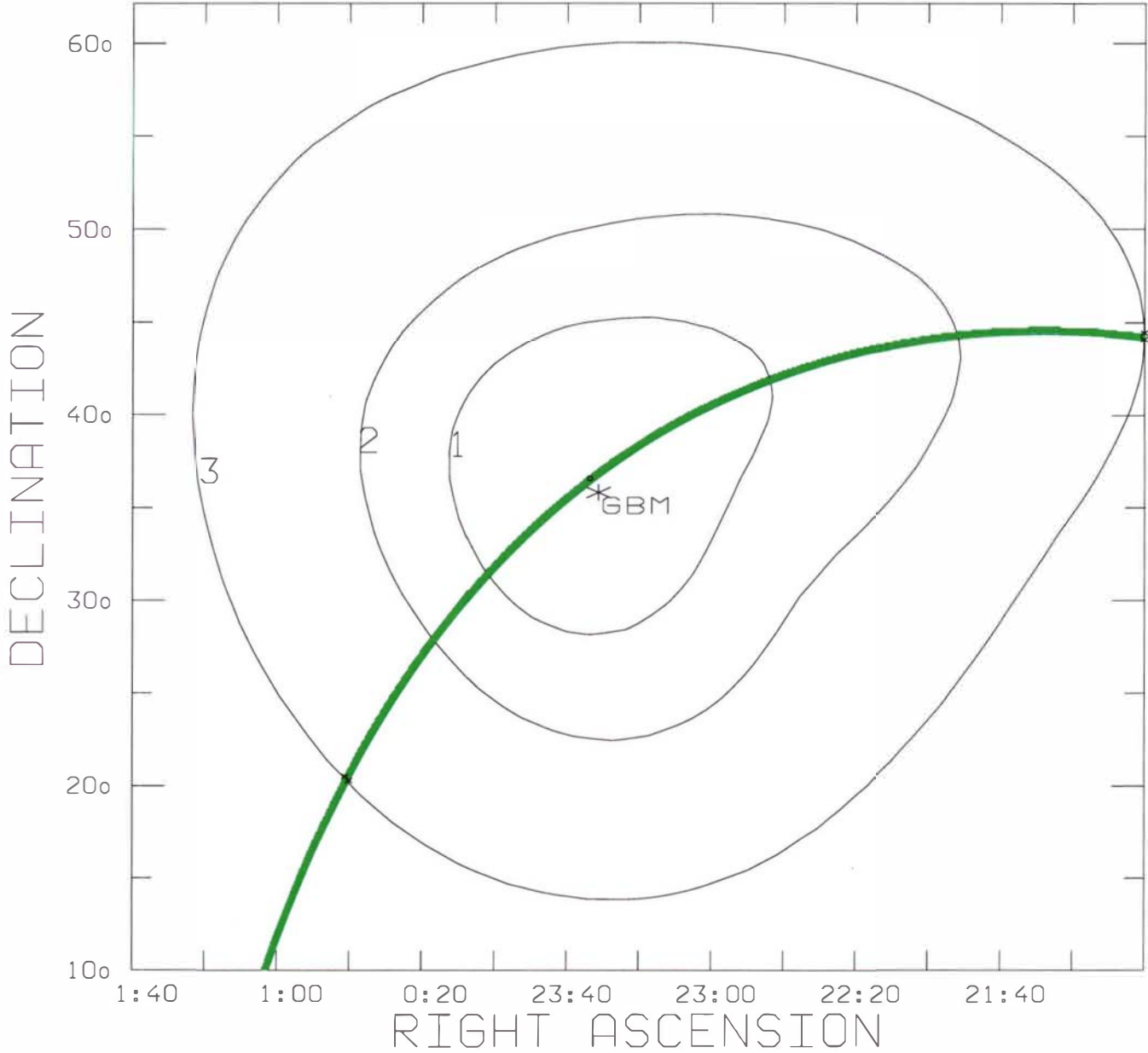
6. For 3 or More Spacecraft events

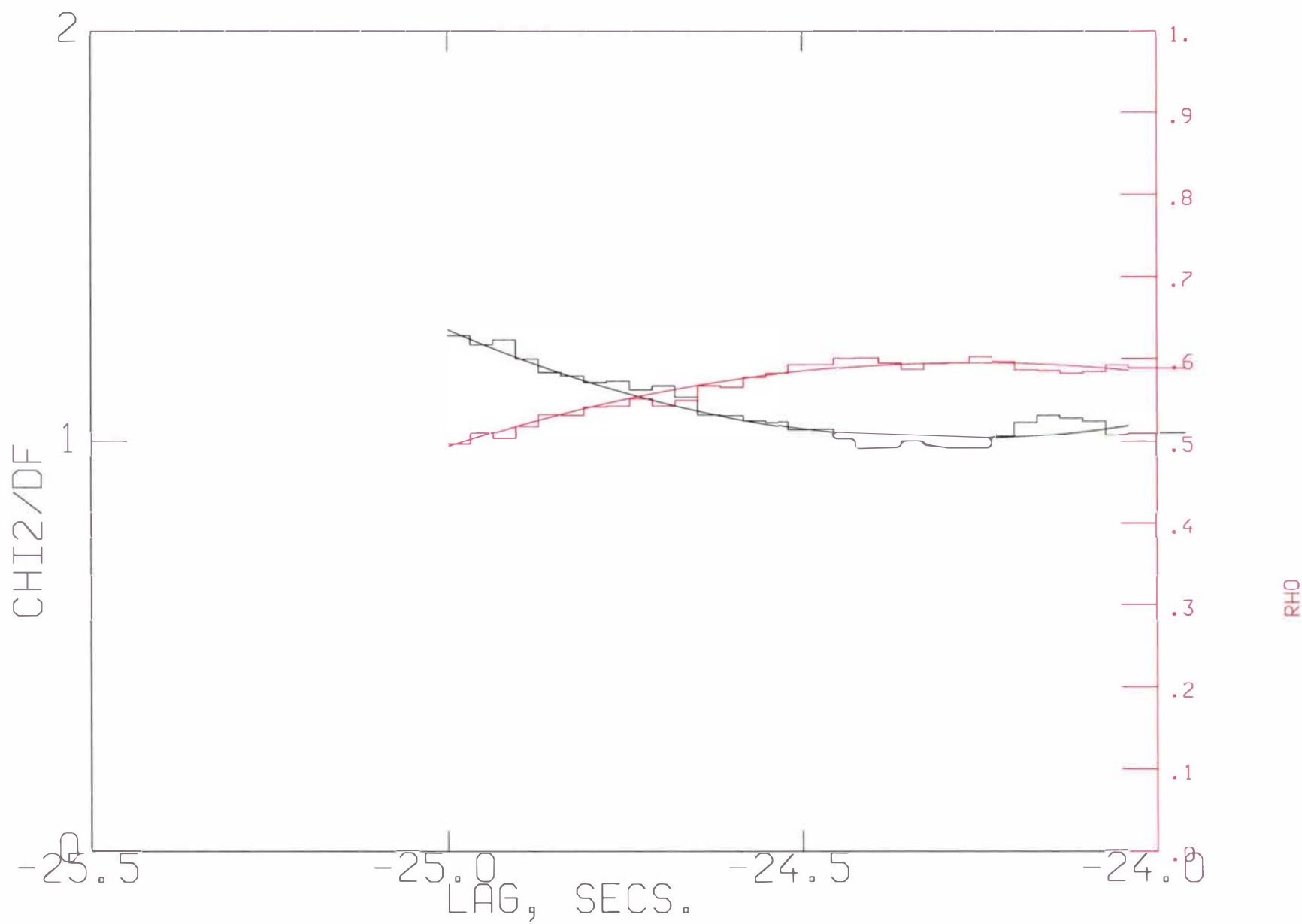
- ☐ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

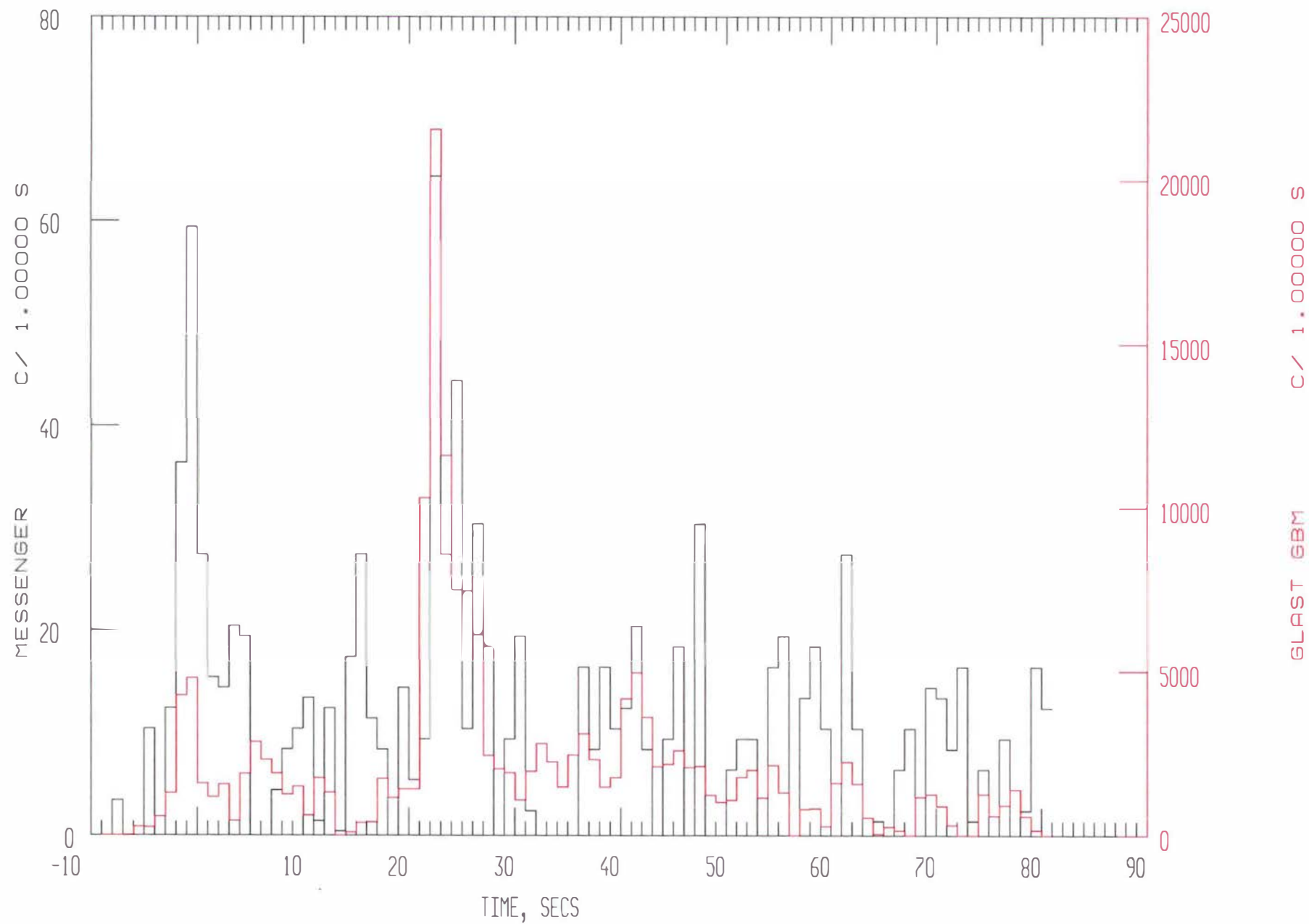
7. For INTEGRAL events

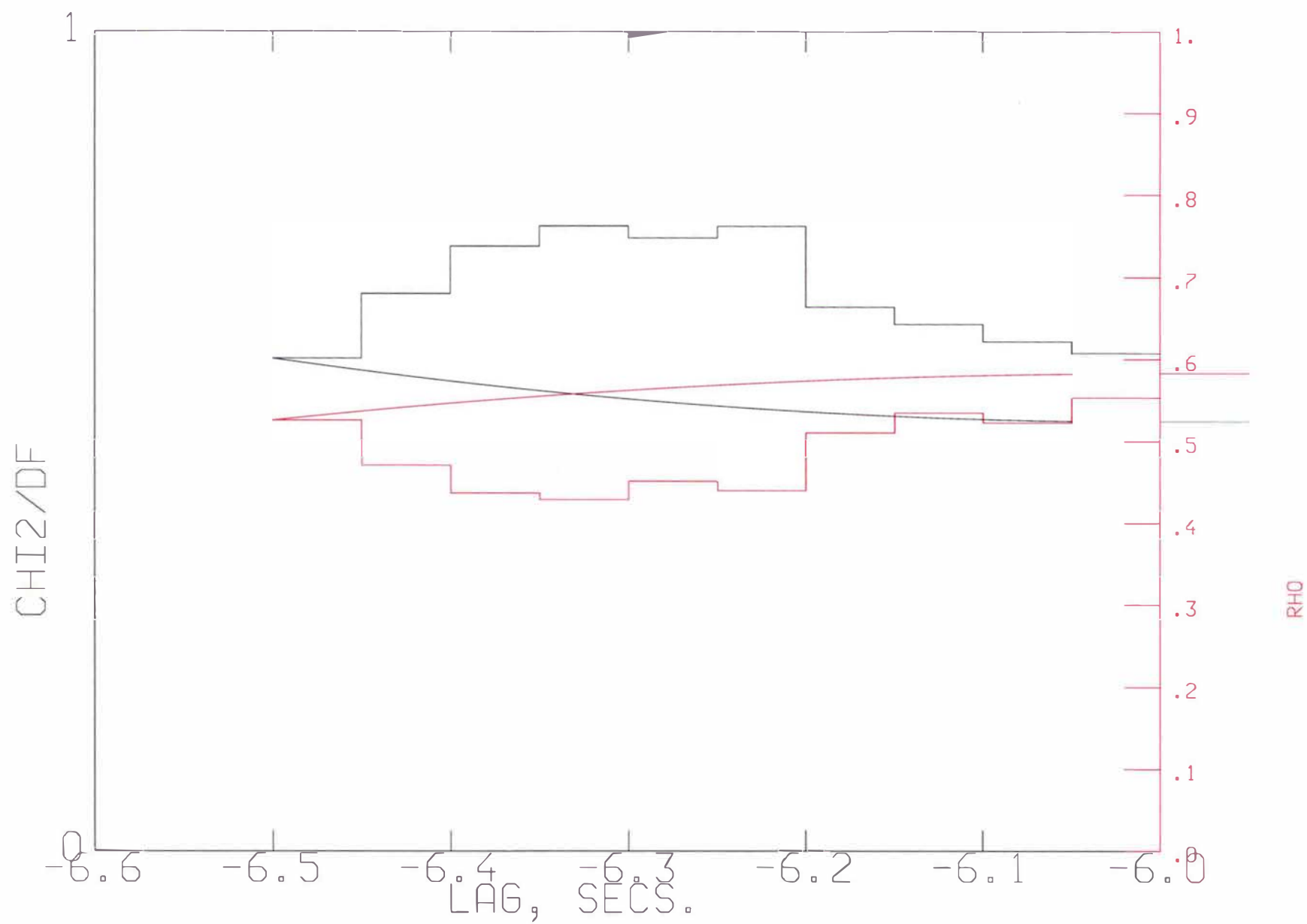
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

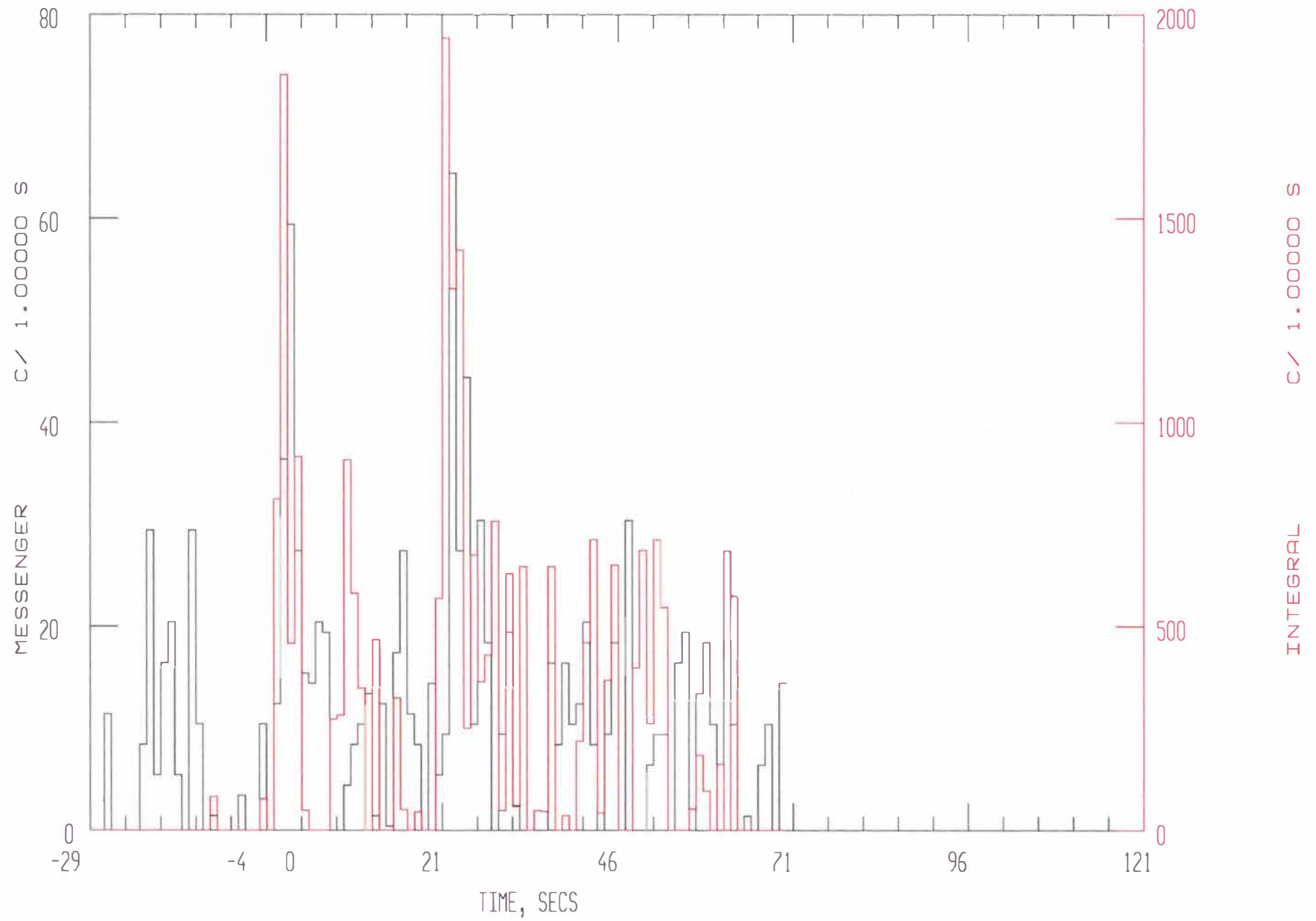
-
- ☒ ACCESS and MBL4 databases updated, with identical times?











GLAST

31/08/11

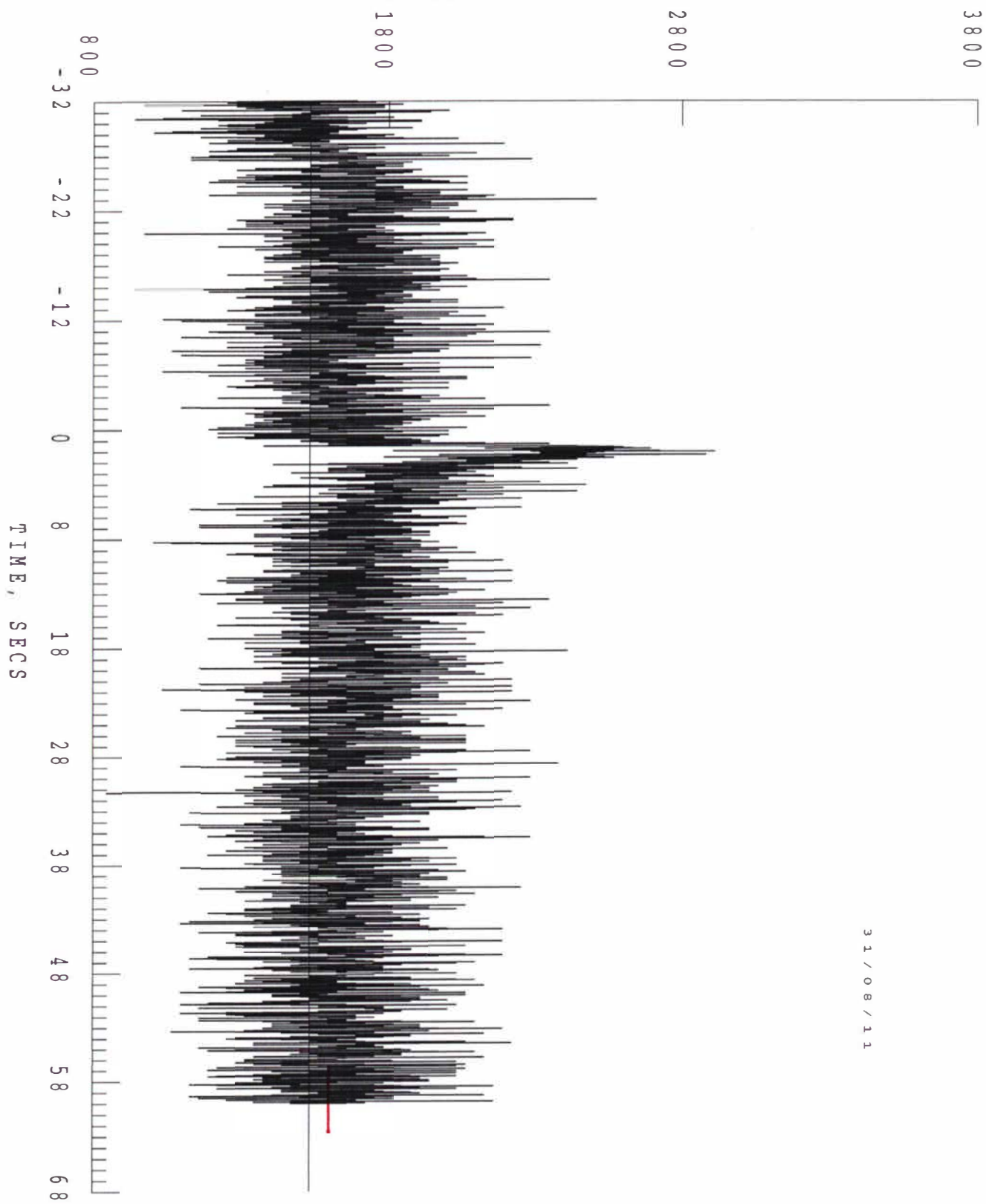
24326.606

06:45:26

26- 293 keV

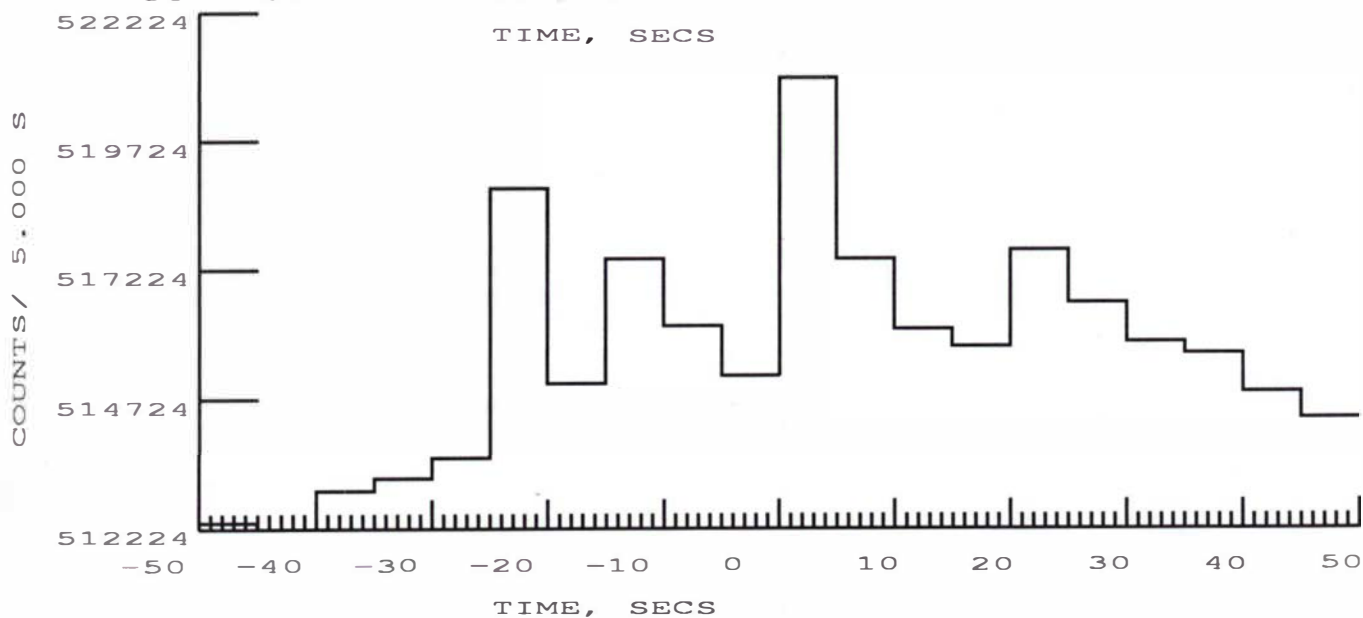
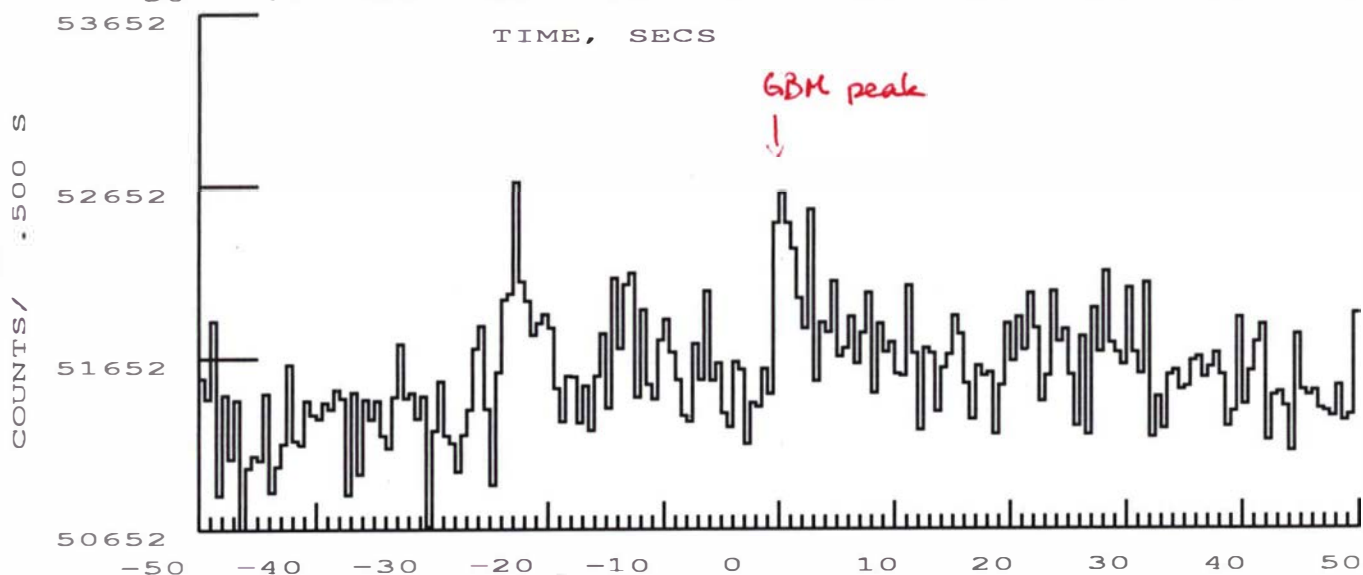
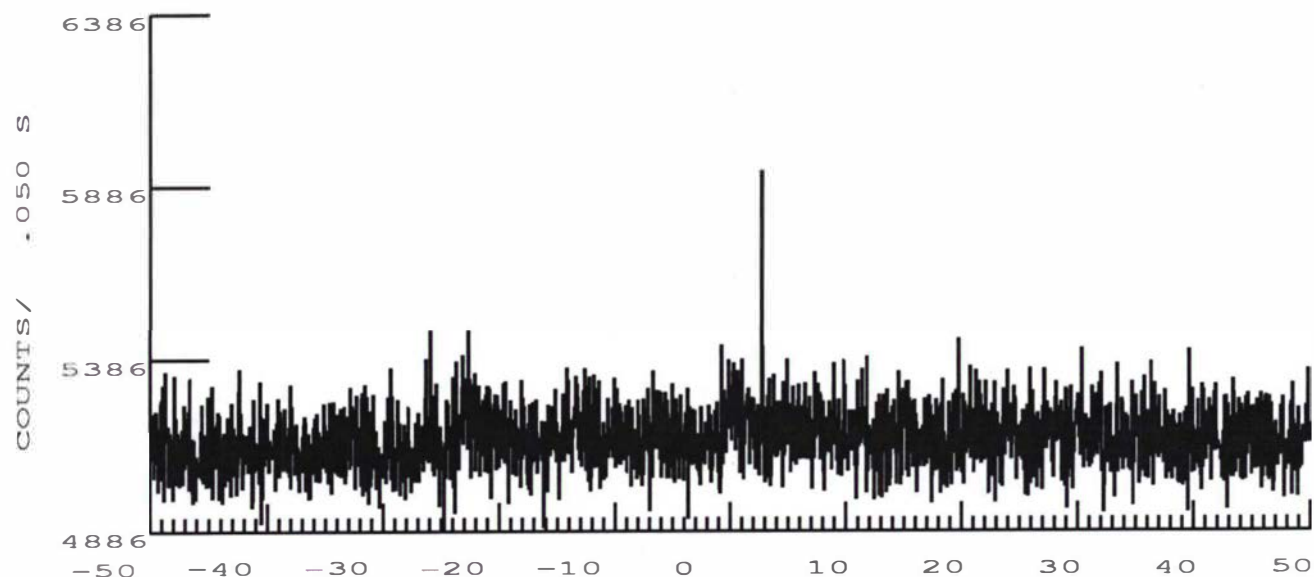
352.35 33.66 5.86

COUNTS/0.032 S



48

INTEGRAL 31/08/11 24326.000 06:45:26.0 20/01/14



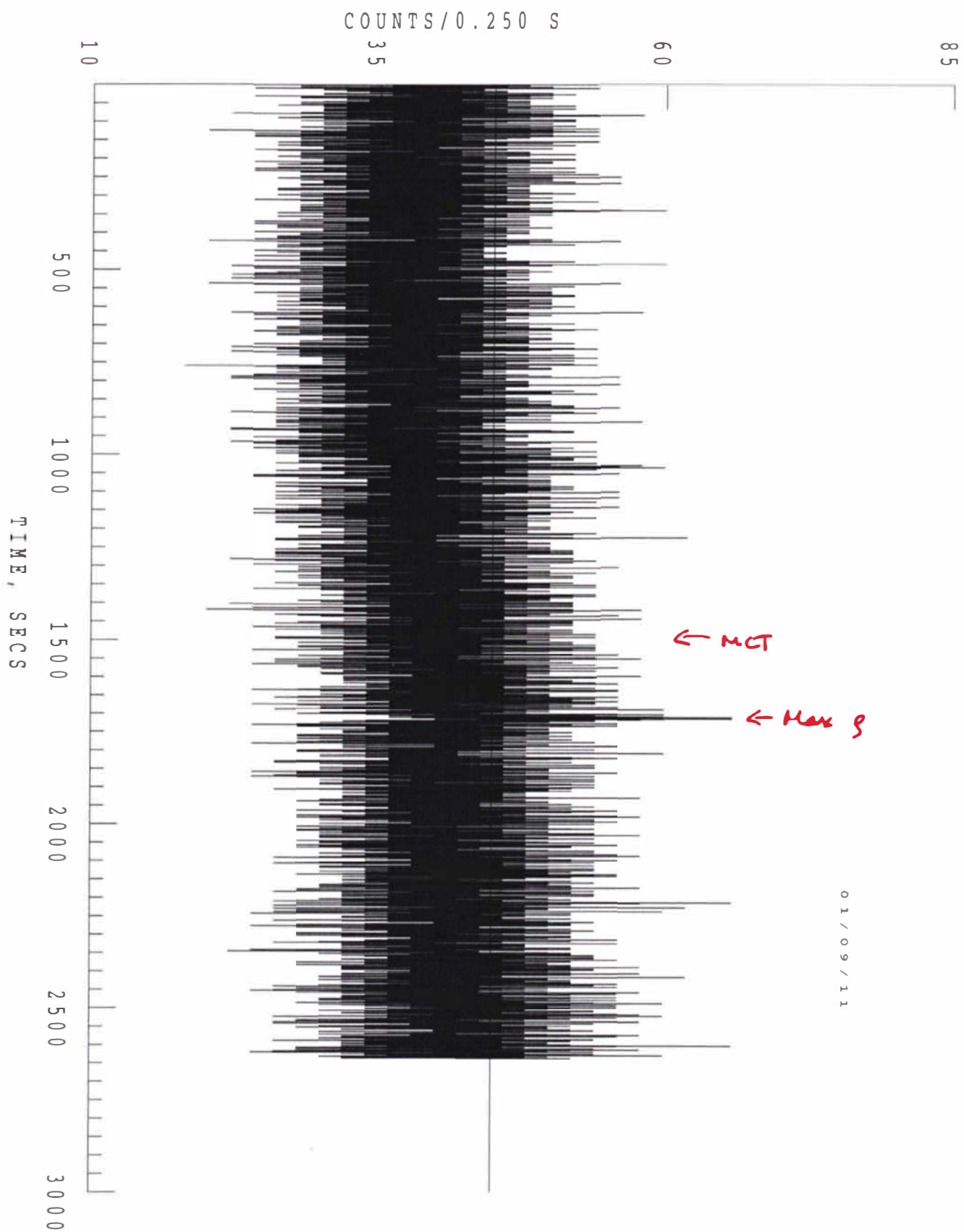
MS01

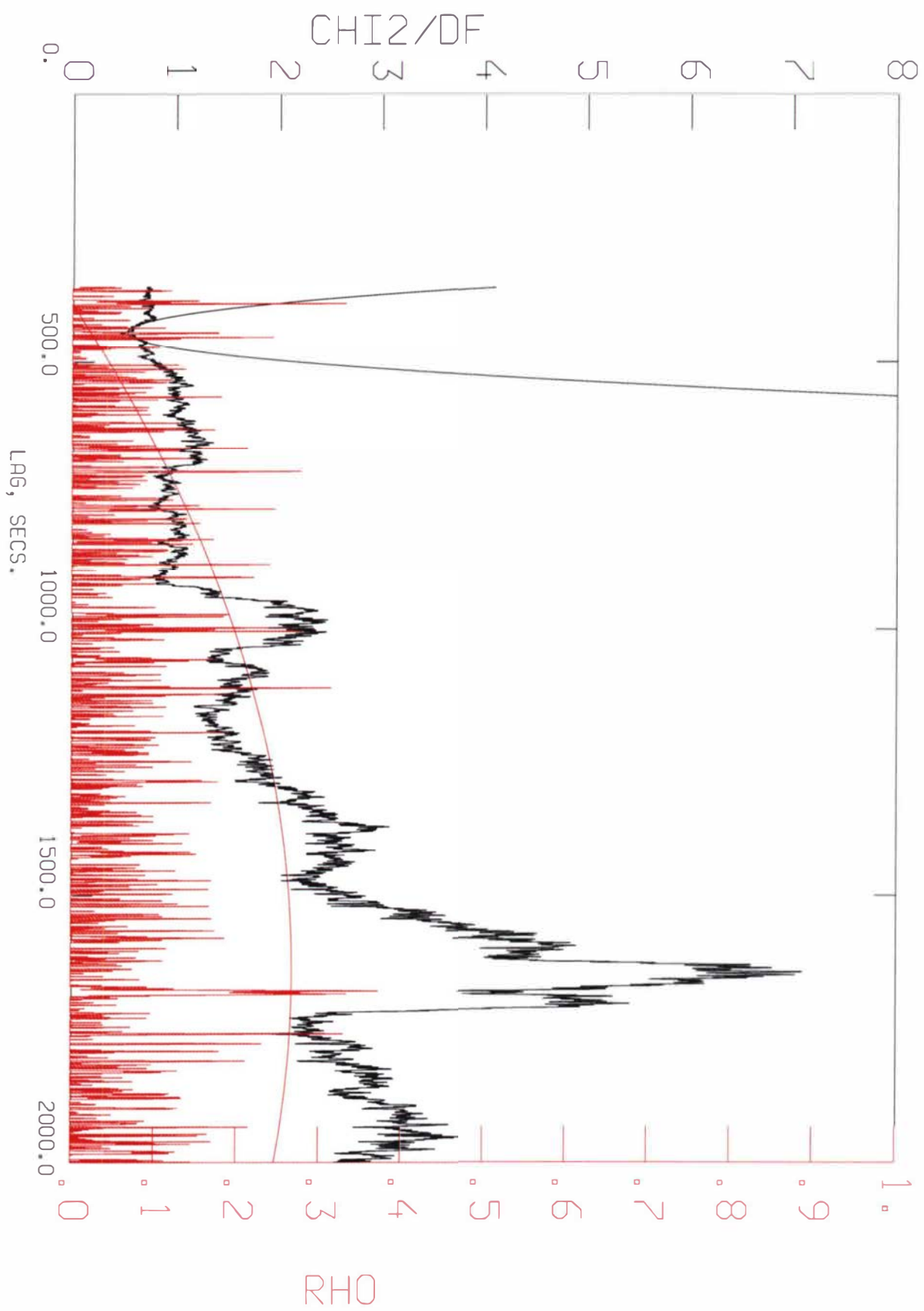
31/08/11

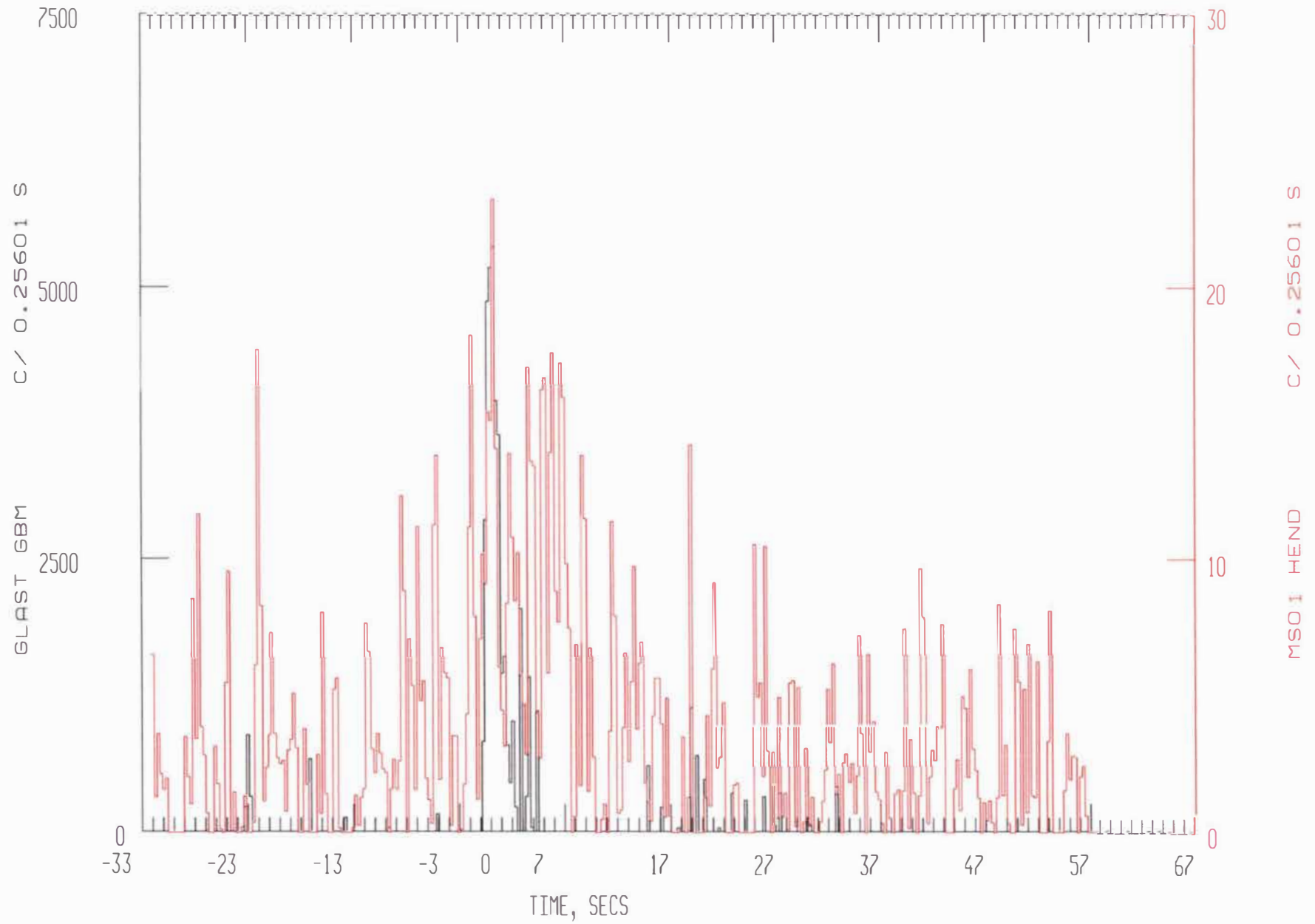
22971.145

50 - 3000 keV

22





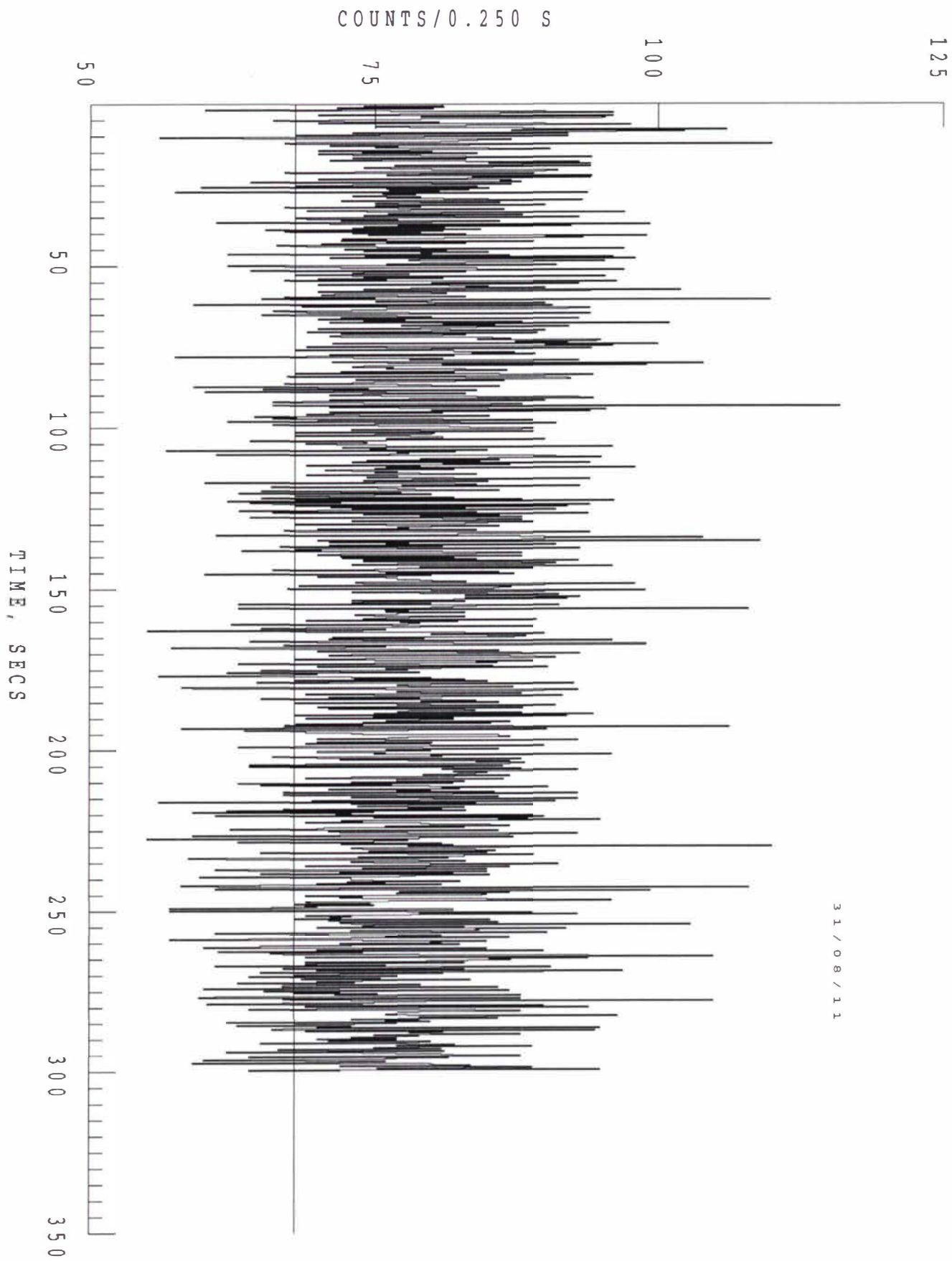


82

HESSI

31/08/11 24176.000 (GLAST_20110831_24326)

25- 150 keV



Subject: [Ipn] BAT lightcurve for trigger at 110831_0645

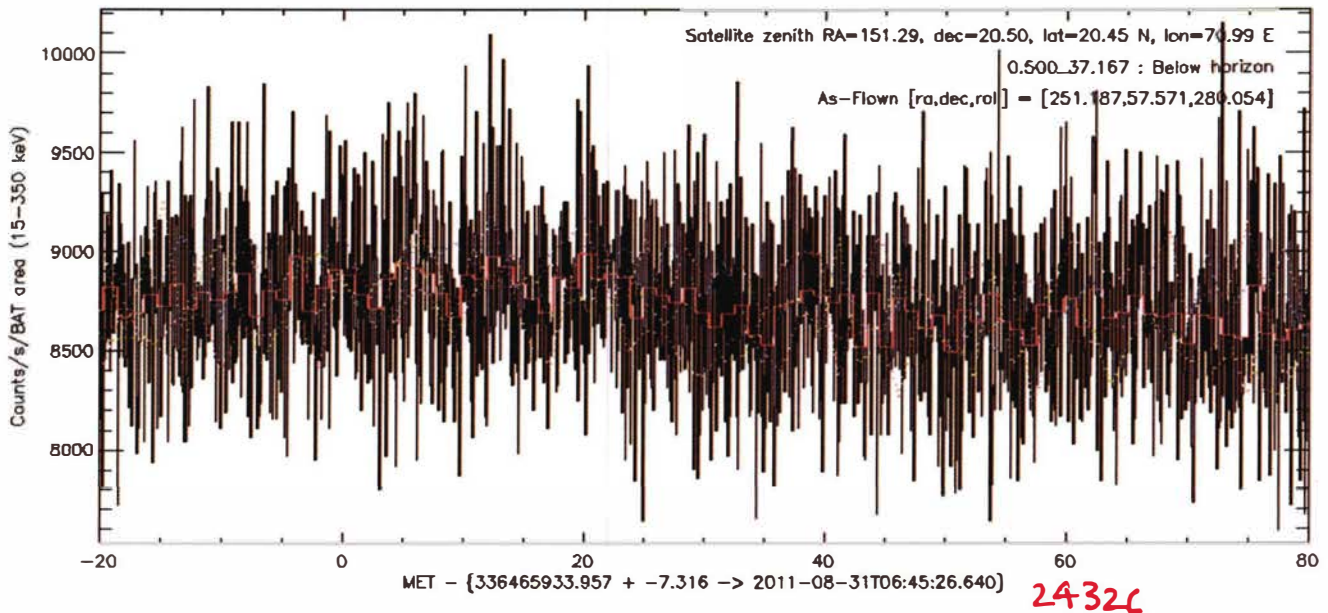
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 31 Aug 2011 15:22:13 -0600 (MDT)

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

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

/tmp/110831_0645.png



```
% /usr/local/bin/swinfo -o 336465933.955 -s 355.820_39.020
Time(MET + UTCF -> UT): 336465933.956 + -7.316 -> 2011-08-31T06:45:26.639
Swift Zenith(RA,dec): 151.29, 20.50
Swift Location(lon,lat,alt): 70.99 E, 20.45 N, 586 km
Obs Sequence Number: 00031955158
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2011-08-31 06:44:54 - 07:01:50
Obs Pointing(ra,dec,roll): 251.187, 57.571, 280.05
355.820_39.020_imageloc (boresight_dist, angle): (65, 46)
355.820_39.020_exposure (cm^2 cos adjusted): 0
355.820_39.020_altitude: -3 (down)
```

```
% /usr/local/bin/swinfo -o 336465933.956 -s 0.500_37.167
Time(MET + UTCF -> UT): 336465933.957 + -7.316 -> 2011-08-31T06:45:26.640
Swift Zenith(RA,dec): 151.29, 20.50
Swift Location(lon,lat,alt): 70.99 E, 20.45 N, 586 km
Obs Sequence Number: 00031955158
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2011-08-31 06:44:54 - 07:01:50
Obs Pointing(ra,dec,roll): 251.187, 57.571, 280.05
0.500_37.167_imageloc (boresight_dist, angle): (68, 44)
0.500_37.167_exposure (cm^2 cos adjusted): 0
0.500_37.167_altitude: -2 (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>

/tmp/110831_0645_bat64ms_ipn	Content-Type: application/octet-stream
------------------------------	--

[lpn] BAT lightcurve for trigger at 110831_0645

Content-Encoding: base64

/tmp/110831_0645.png

/tmp/110831_0645.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
----------	--

Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
----------	--

41

30/09/11

MESSENGER

31/08/11

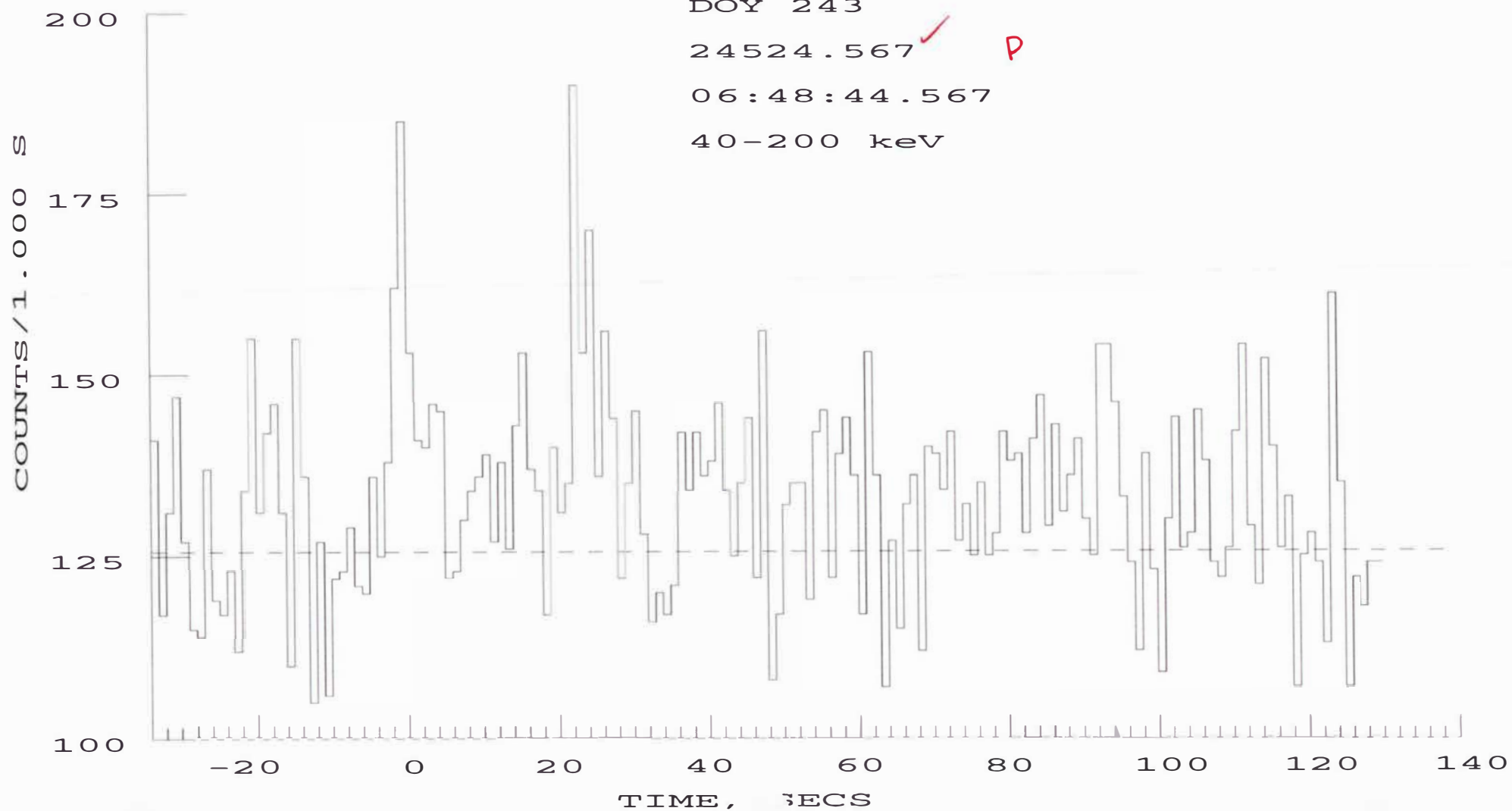
DOY 243

24524.567 ✓

P

06:48:44.567

40-200 keV



30/09/11

MESSENGER

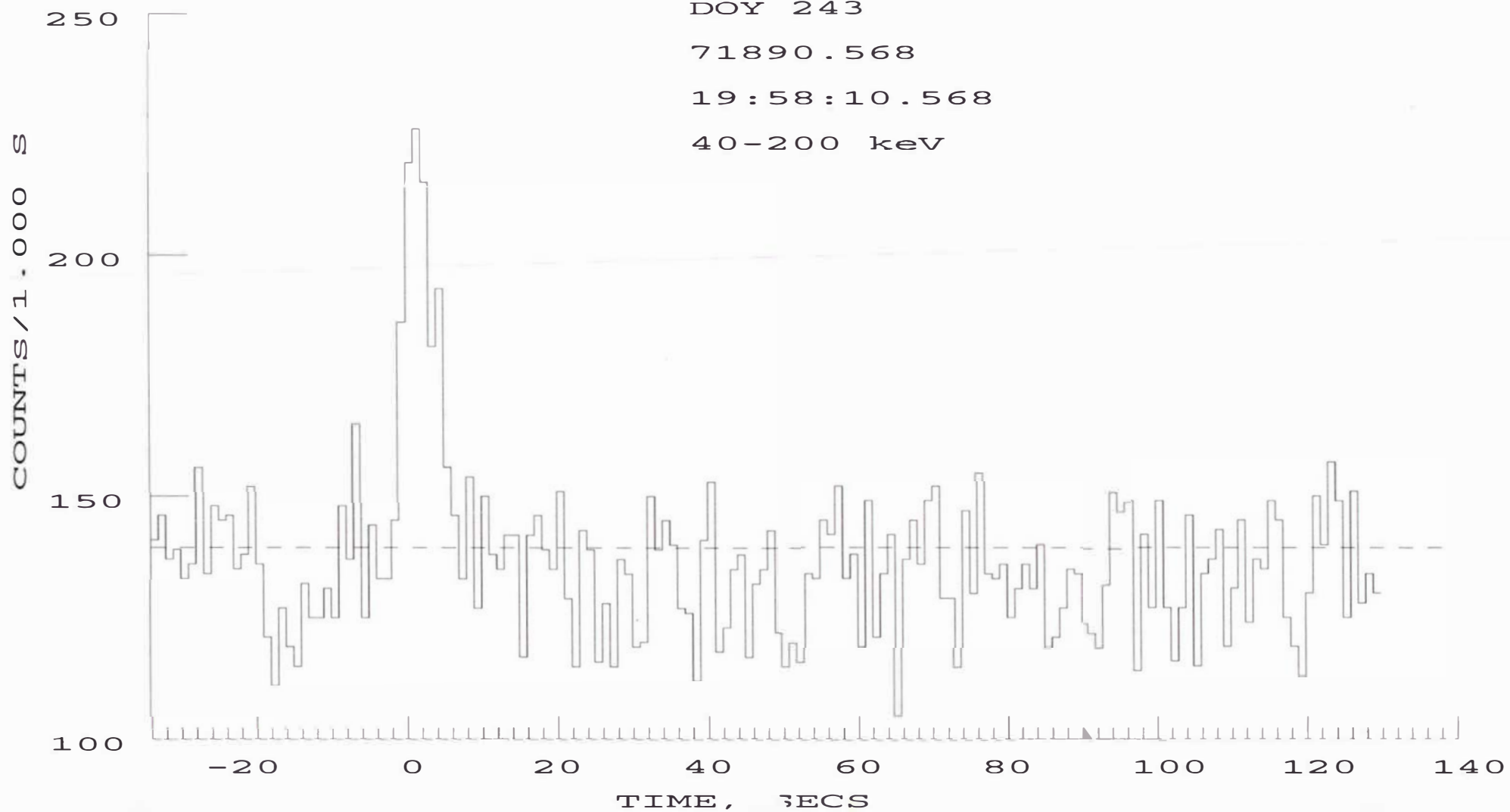
31/08/11

DOY 243

71890.568

19:58:10.568

40-200 keV

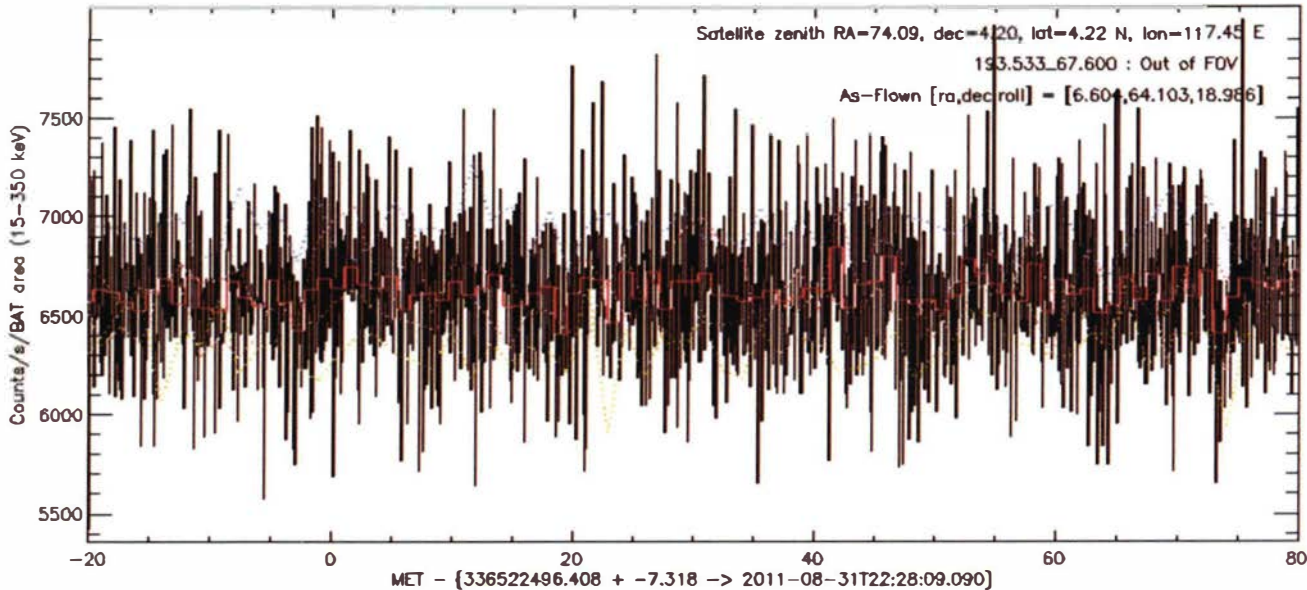


Subject: [Ipn] BAT lightcurve for trigger at 110831_2228
From: palmer+automatic_lightcurve@lanl.gov
Date: Wed, 31 Aug 2011 23:17:09 -0600 (MDT)
To: gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/110831_2228.png

Fermi uncertain



```
% /usr/local/bin/swinfo -o 336522496.408 -s 193.533_67.600
Time(MET + UTCF -> UT):      336522496.408 + -7.318 -> 2011-08-31T22:28:09.090
Swift Zenith(RA,dec):        74.09, 4.20
Swift Location(lon,lat,alt):  117.45 E, 4.22 N, 576 km
Obs Sequence Number:         00059083002
Obs Target Name:              Tycho_WT_top (late 2011)
Obs Date and Times:          2011-08-31 22:15:54 - 22:36:50
Obs Pointing(ra,dec,roll):    6.604, 64.103, 18.99
193.533_67.600_imageloc (boresight_dist, angle): (48, -113)
193.533_67.600_exposure (cm^2 cos adjusted): 0
193.533_67.600_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>

/tmp/110831_2228_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110831_2228.png

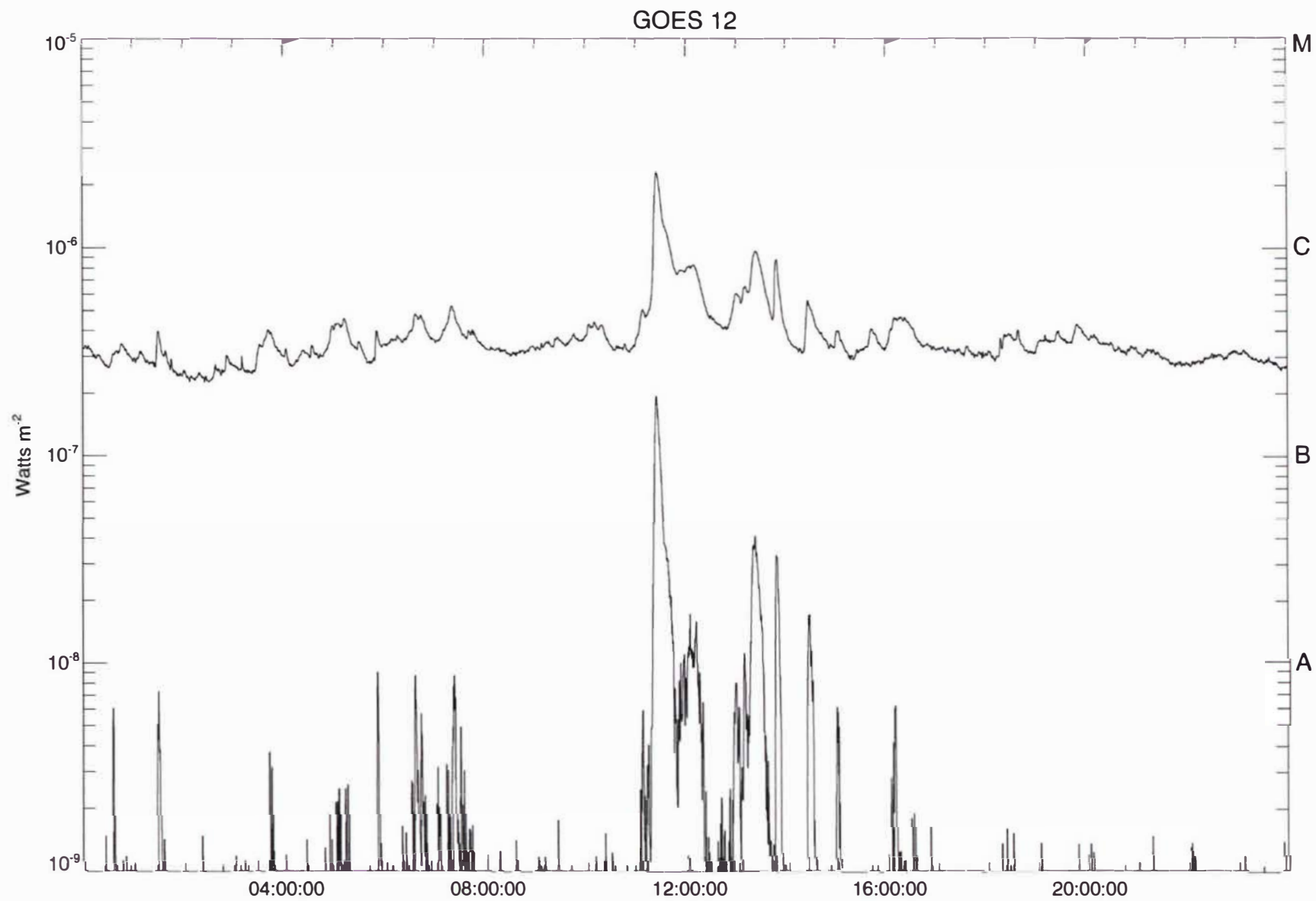
/tmp/110831_2228.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

Part 1.4

Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

Part 1.5	Content-Type:	text/plain
	Content-Encoding:	7bit



Data Start: 11/08/31, 0000:09

Plot created: 11/09/03, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10