

GLAST

01/09/11

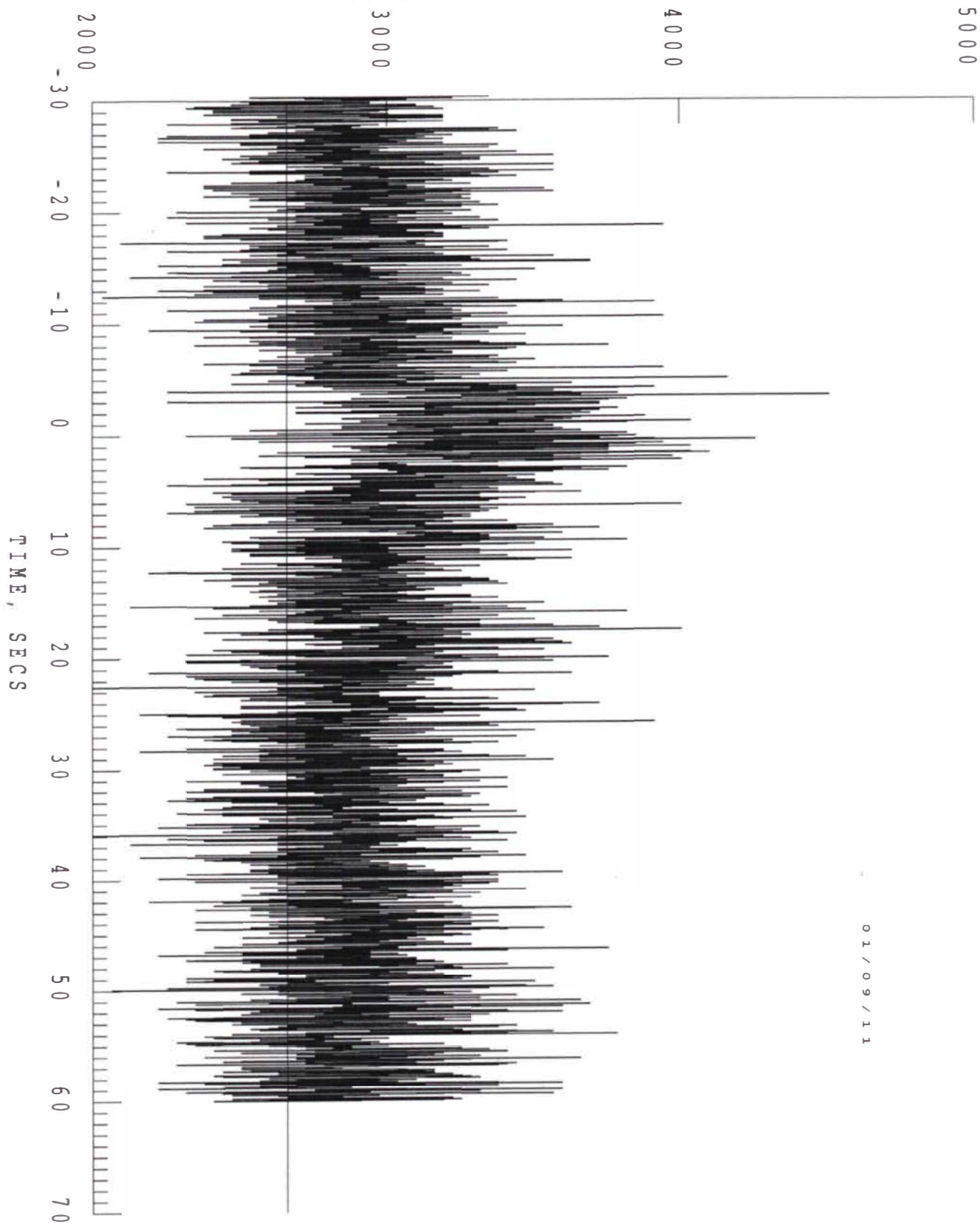
19904.057

05:31:44

26 - 293 keV

141.28, -14.21, 3.37

COUNTS/0.032 S



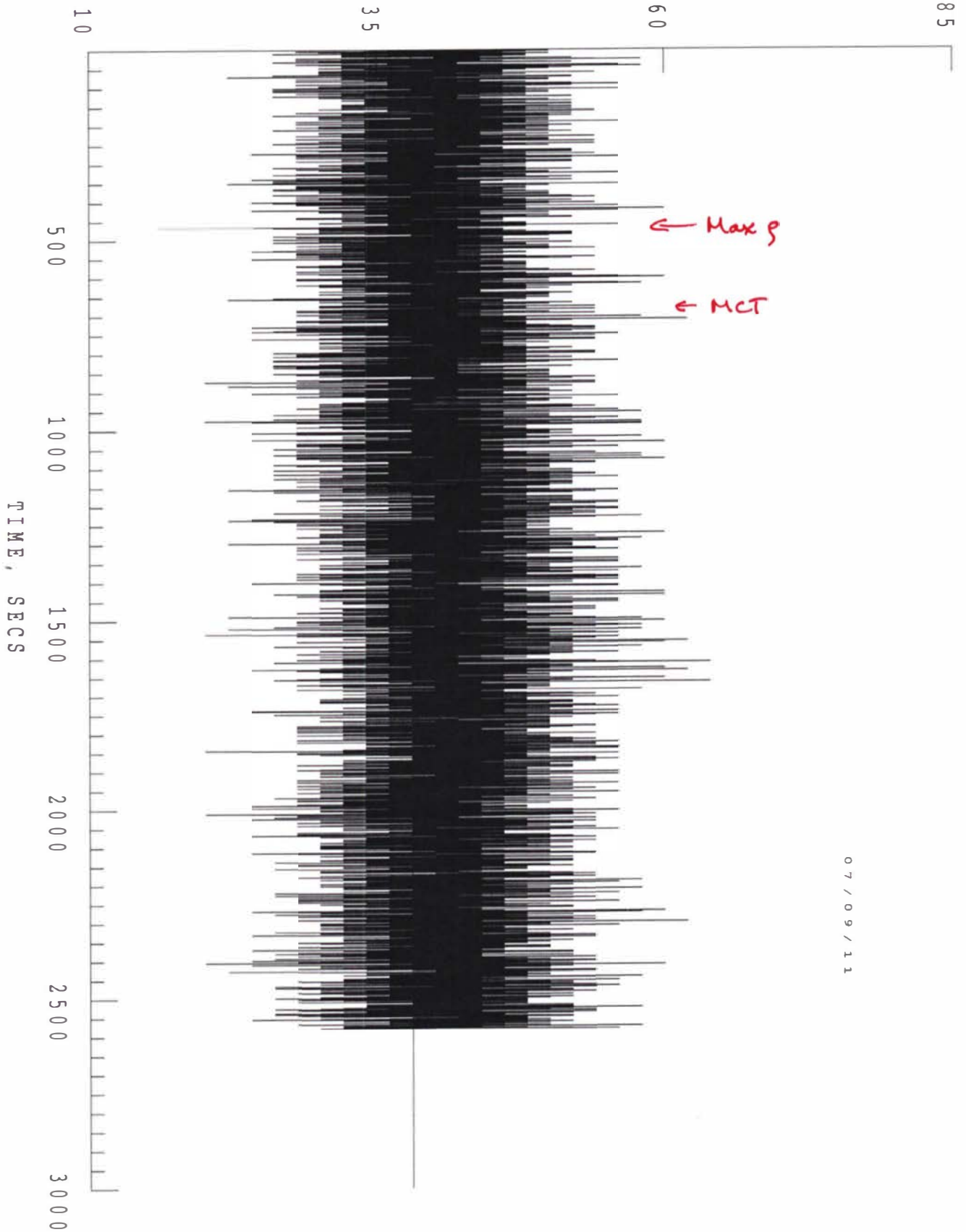
MS01

01/09/11

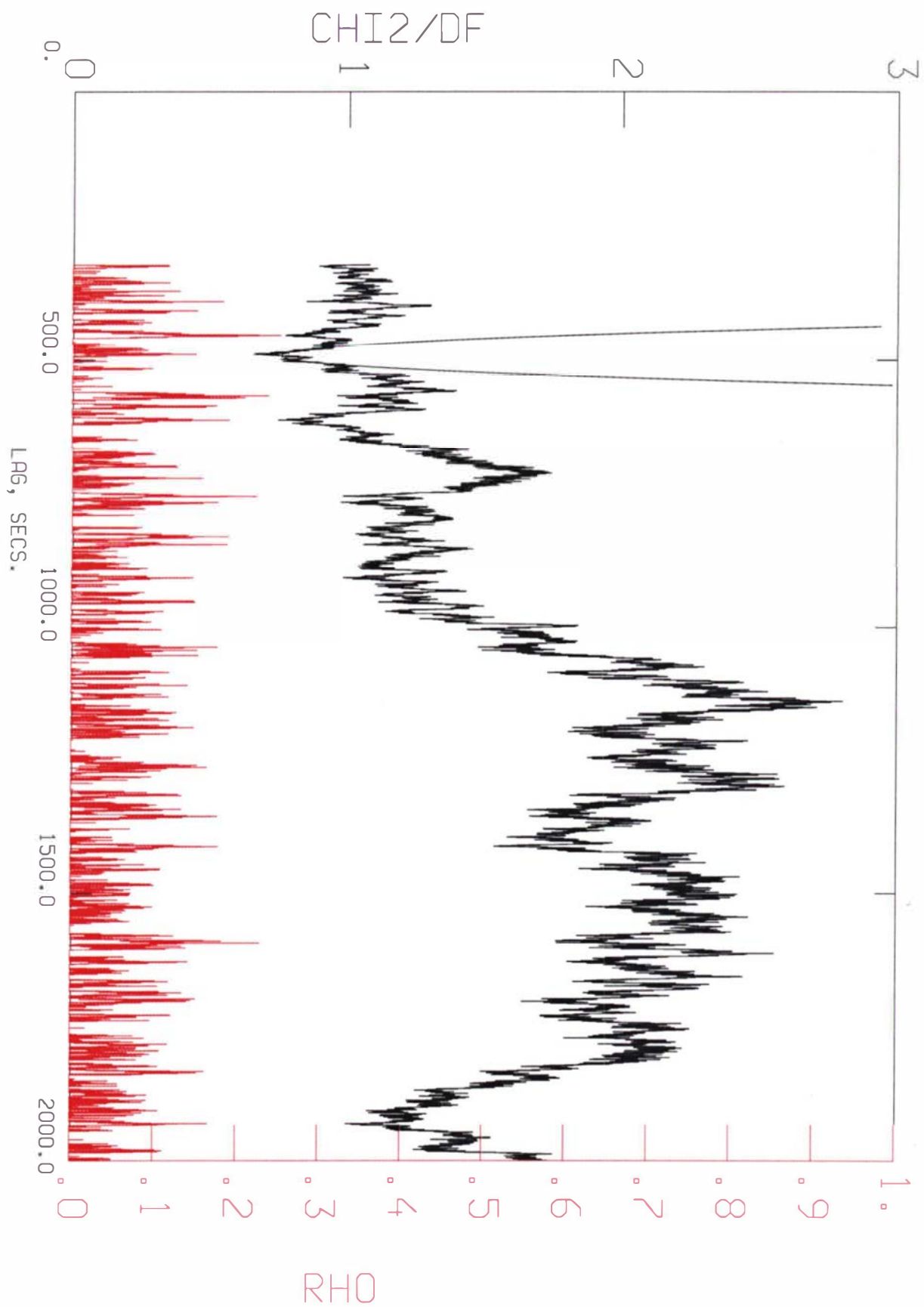
18589.743

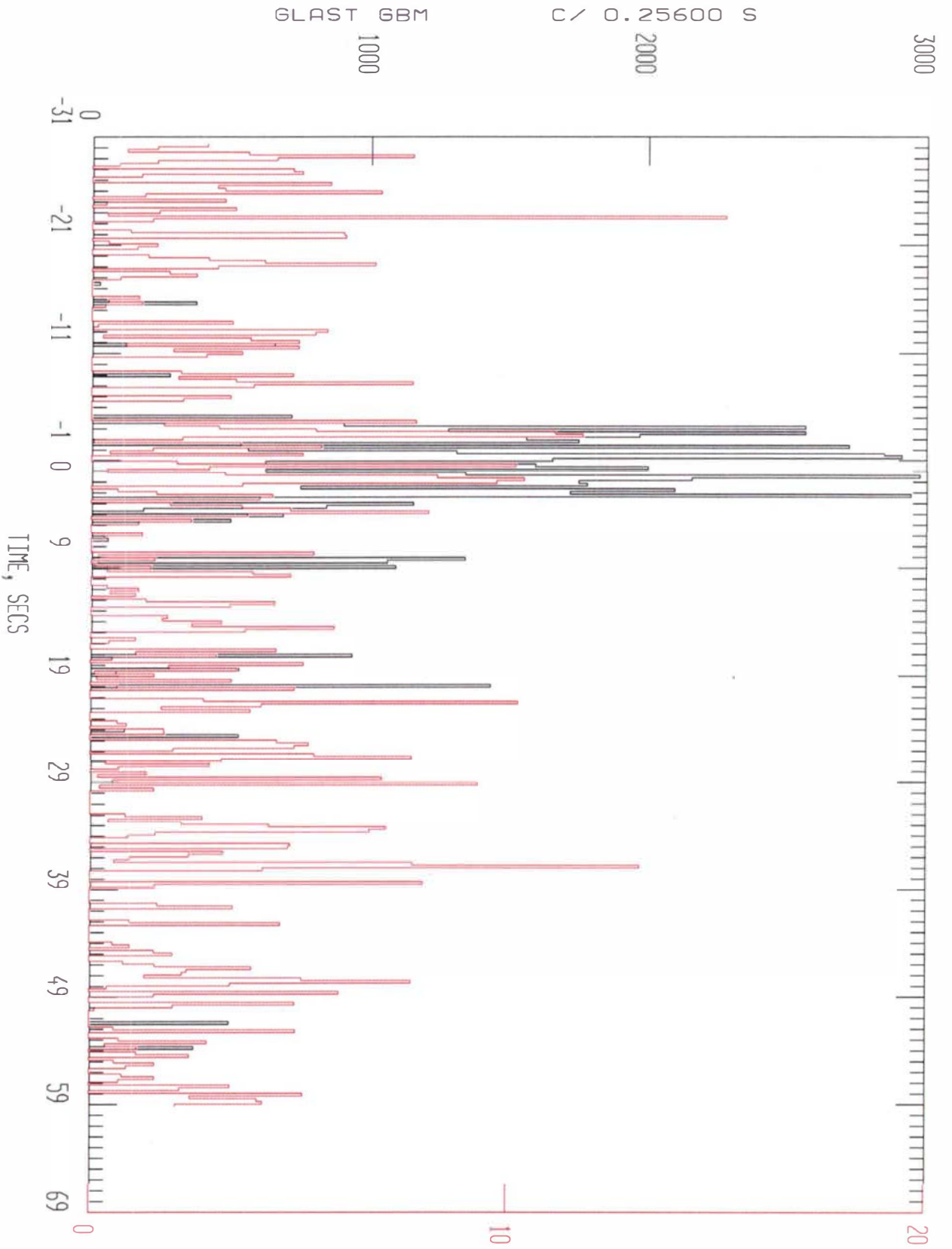
50 - 3000 keV

COUNTS/0.250 S



07/09/11





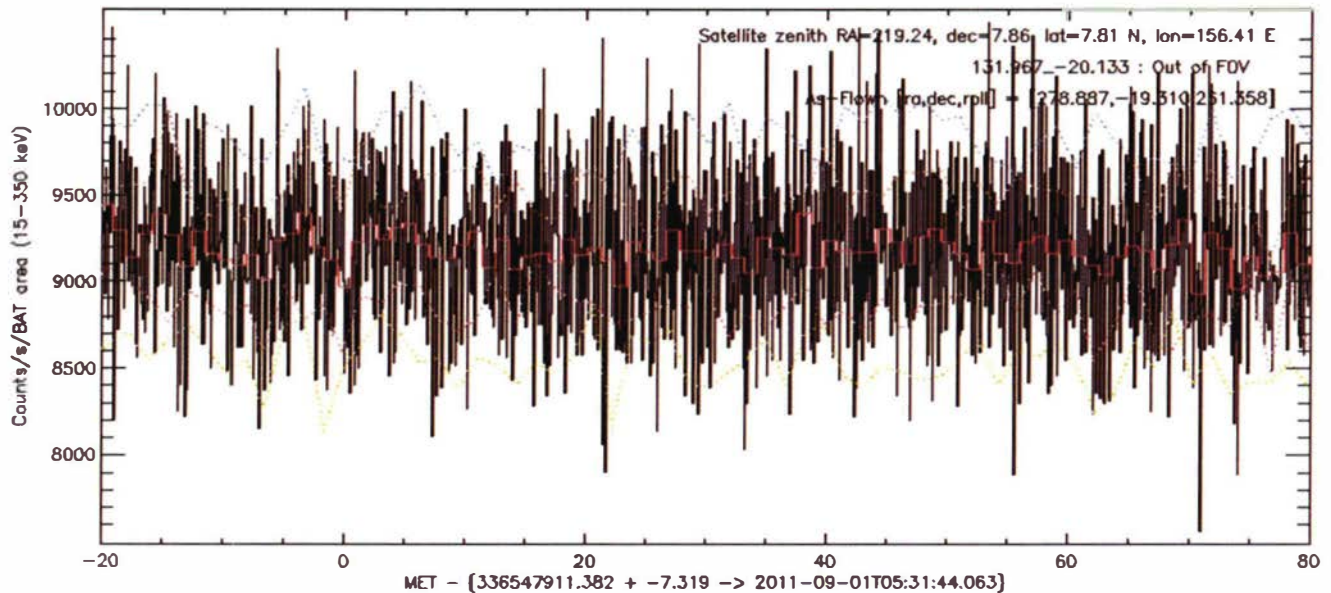
From williams@gammaburst.ssl.berkeley.edu Tue Sep 6 23:03:07 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 6 Sep 2011 23:02:28 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GLAST_20110901_19904
X-Ucb-Scan-Signature: 8688411c57d895476ded878c729f72df8efe9631
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 6-Sep-2011 23:03:31.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [Ipn] BAT lightcurve for trigger at 110901_0531
From: palmer+automatic_lightcurve@lanl.gov
Date: Thu, 1 Sep 2011 08:15:12 -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/110901_0531.png



```
% /usr/local/bin/swinfo -o 336547911.382 -s 131.967 -20.133
Time(MET + UTCF -> UT):      336547911.382 + -7.319 -> 2011-09-01T05:31:44.063
Swift Zenith(RA,dec):        219.24, 7.86
Swift Location(lon,lat,alt):  156.41 E, 7.81 N, 594 km
Obs Sequence Number:         00032087002
Obs Target Name:              MAXI J1836-194
Obs Date and Times:           2011-09-01 05:29:54 - 05:48:50
Obs Pointing(ra,dec,roll):    278.887, -19.310, 261.36
131.967_-20.133_imageloc (boresight_dist, angle): (129, -130)
131.967_-20.133_exposure (cm^2 cos adjusted): 0
131.967_-20.133_altitude: 24 (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
Ipnu@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

/tmp/110901_0531.png

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

/tmp/110901_0531_bat64ms_ipn

/tmp/110901_0531_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 vxw@capella2.gsfc.nasa.gov Thu Sep 1 05:09:40 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Thu, 1 Sep 2011 08:11:04 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 9d7769cef6293c20809b6c35c2e6267b7bf19ec3
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
NOTICE_DATE: Thu 01 Sep 11 12:11:03 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 502024, Seg Num: 0
GRB_RA: 266.252d {+17h 45m 00s} (J2000),
266.438d {+17h 45m 45s} (current),
265.455d {+17h 41m 49s} (1950)
GRB_DEC: -29.346d {-29d 20' 45"} (J2000),
-29.350d {-29d 21' 00"} (current),
-29.326d {-29d 19' 32"} (1950)
GRB_DATE: 15805 TJD; 244 DOY; 11/09/01
GRB_TIME: 43642.34 SOD {12:07:22.34} UT
TRIGGER_INDEX: 413
GRB_PHI: 38.69 [deg]
GRB_THETA: 13.08 [deg]
DELTA_TIME: -5.00 [sec]
TRIGGER_DUR: 8.192 [sec]
SOLN_STATUS: 0x10D
RATE_SIGNIF: 11.18 [sigma]
IMAGE_SIGNIF: 7.00 [sigma]
JC_URL: sw00502024000msb.lc
SUN_POSTN: 160.33d {+10h 41m 20s} +8.30d {+08d 17' 59"}
SUN_DIST: 108.06 [deg] Sun_angle= -7.1 [hr] (East of Sun)
MOON_POSTN: 202.37d {+13h 29m 28s} -13.82d {-13d 49' 08"}
MOON_DIST: 60.85 [deg]
MOON_ILLUM: 16 [%]
GAL_COORDS: 359.58, -0.10 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 266.72, -5.95 [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 matches a source in the on-board catalog.
COMMENTS: This matches a source in the ground catalog: M1741-293, delta
COMMENTS: This is not a GRB.
COMMENTS: This trigger occurred at longitude,latitude = 95.19,-6.89 [deg]

LMXB

From gcncirc@capella2.gsfc.nasa.gov Thu Sep 1 05:42:38 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: Trigger 502024: Swift detection of KS 1741-293
o: khurley@ssl.berkeley.edu
Date: Thu, 1 Sep 2011 08:44:03 -0400 (EDT)
X-Ucb-Scan-Signature: 541c08903ef479c23333b5b50c2fa092b6d0a8a9
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: 12319
SUBJECT: Trigger 502024: Swift detection of KS 1741-293
DATE: 11/09/01 12:44:02 GMT
FROM: Scott Barthelmy at NASA/GSFC <scott@milkyway.gsfc.nasa.gov>

S. D. Barthelmy (GSFC), S. Campana (INAF-OAB), V. D'Elia (ASDC),
N. Gehrels (NASA/GSFC), B. Gendre (ASDC), J. A. Kennea (PSU),
H. A. Krimm (CRESST/GSFC/USRA), C. J. Mountford (U Leicester),
D. M. Palmer (LANL), P. Romano (INAF-IASFPA) and B.-B. Zhang (PSU)
report on behalf of the Swift Team:

At 12:07:22 UT, the Swift Burst Alert Telescope (BAT) triggered and located an outburst from what we tentatively associate with KS 1741-293 (aka M 1741-293 and AX J1744.8-2921) (trigger=502024). Swift did not slew immediately because the on-board merit system gives these sources a low merit value. The BAT on-board calculated location is

RA, Dec 266.252, -29.346, which is

RA(J2000) = 17h 45m 00s

Dec(J2000) = -29d 20' 45"

with an uncertainty of 3 arcmin (radius, 90% containment, including systematic uncertainty). The BAT light curve showed a single weak peak with a duration of about 10 sec. The peak count rate was ~1200 counts/sec (15-350 keV), at ~3 sec after the trigger.

The XRT began observing the field at 12:31:49.6 UT, 1467.2 seconds after the BAT trigger. No source was detected in 117 s of promptly downlinked data. We are waiting for the full dataset to detect and localise the XRT counterpart.

Although the BAT position is consistent with the LMXRB KS 1741-293, this an extremely crowded field near the Galactic center, so it is possible that the burst came from another Galactic source.

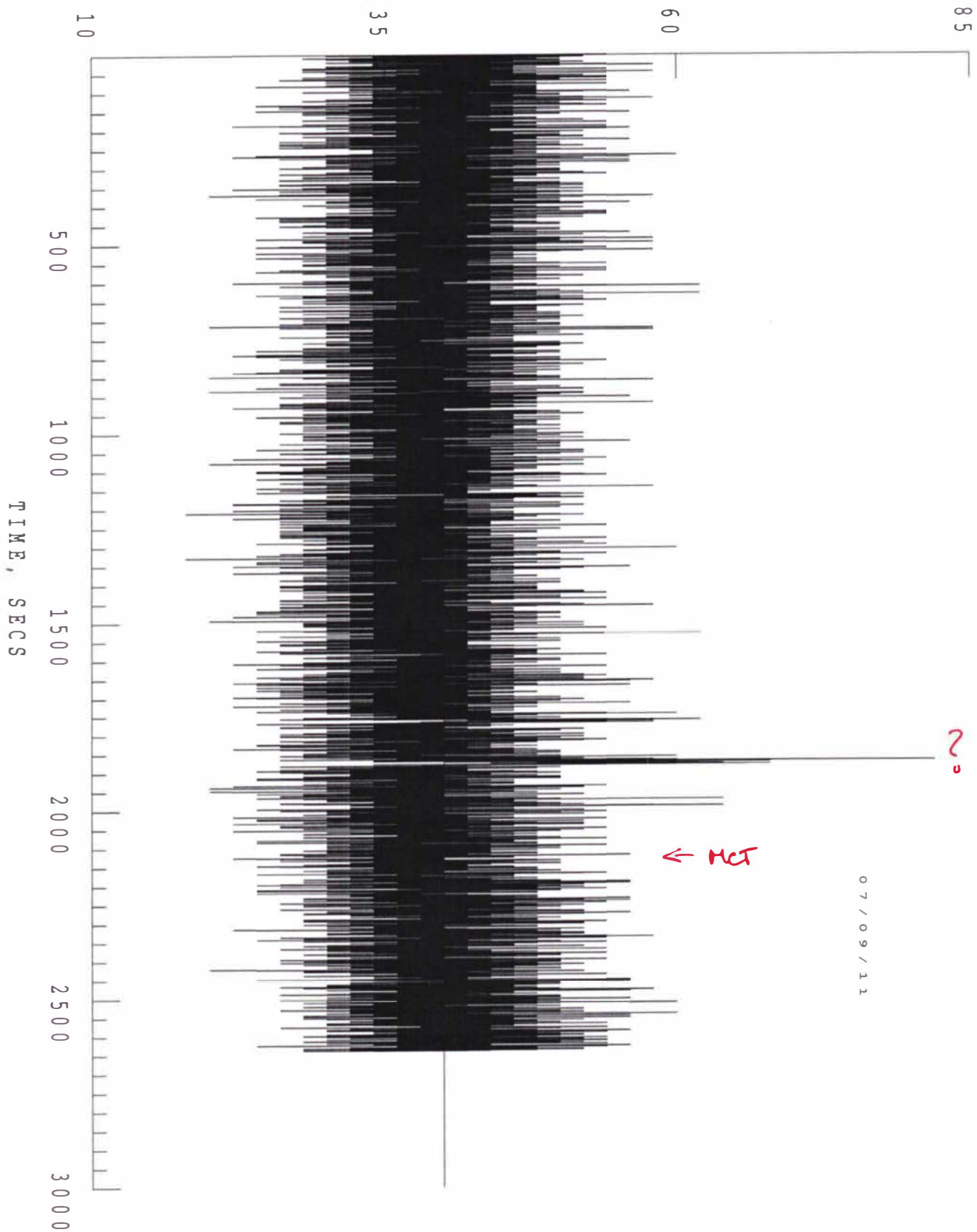
MS01

01/09/11

42289.345

50 - 3000 keV

COUNTS/0.250 S



07/09/11

From williams@gammaburst.ssl.berkeley.edu Tue Sep 6 23:05:03 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 6 Sep 2011 23:04:23 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu

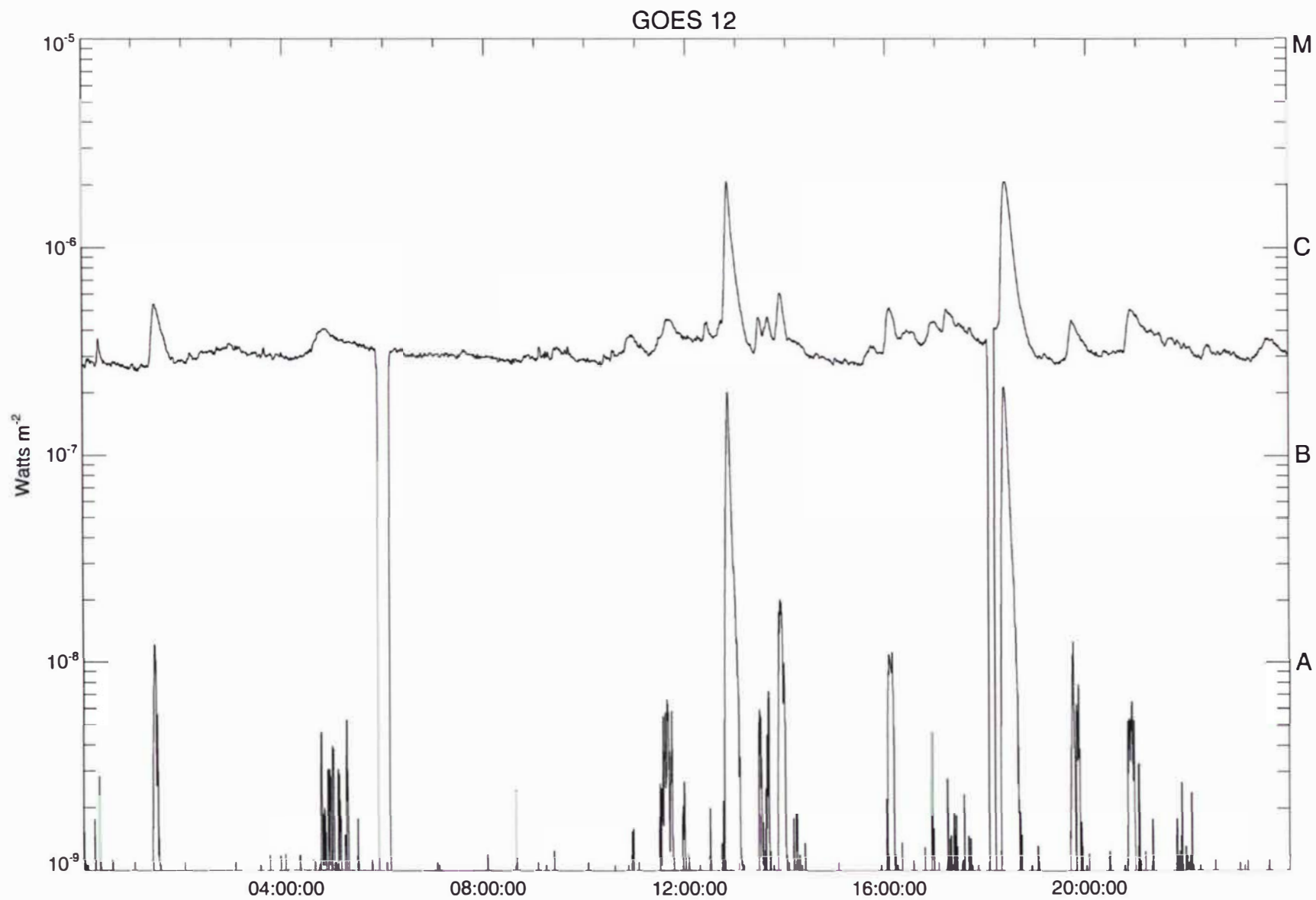
Subject: No_RHESSI_data_for_SWIFT_20110901_43642

X-Ucb-Scan-Signature: fd1f18adc165a9c8ab58a98a09e013ce008c2087

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 6-Sep-2011 23:05:27.00
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



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

Plot created: 11/09/04, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

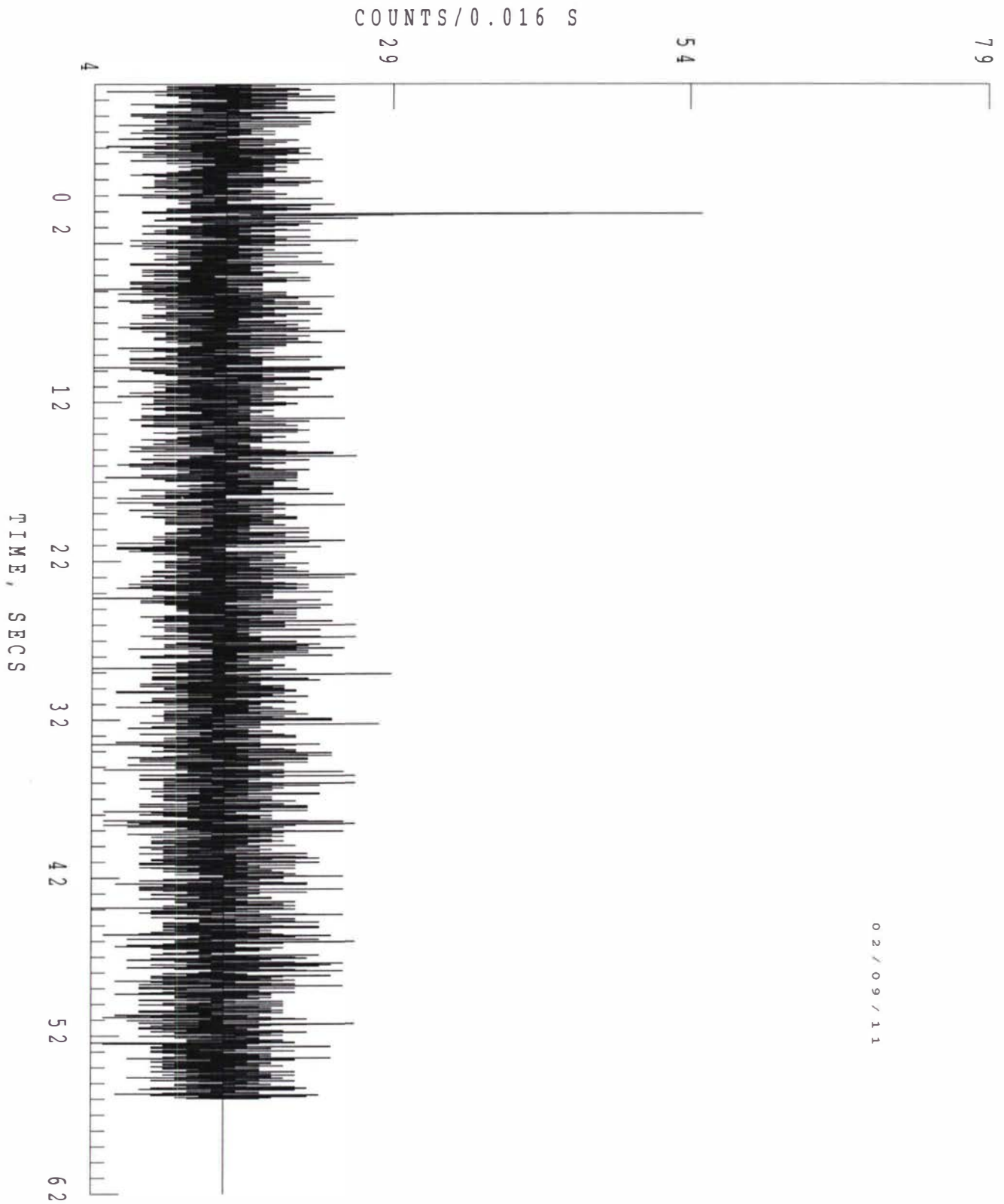
SUZAKU

02/09/11

22988.809

06:23:08

50 - 240 keV



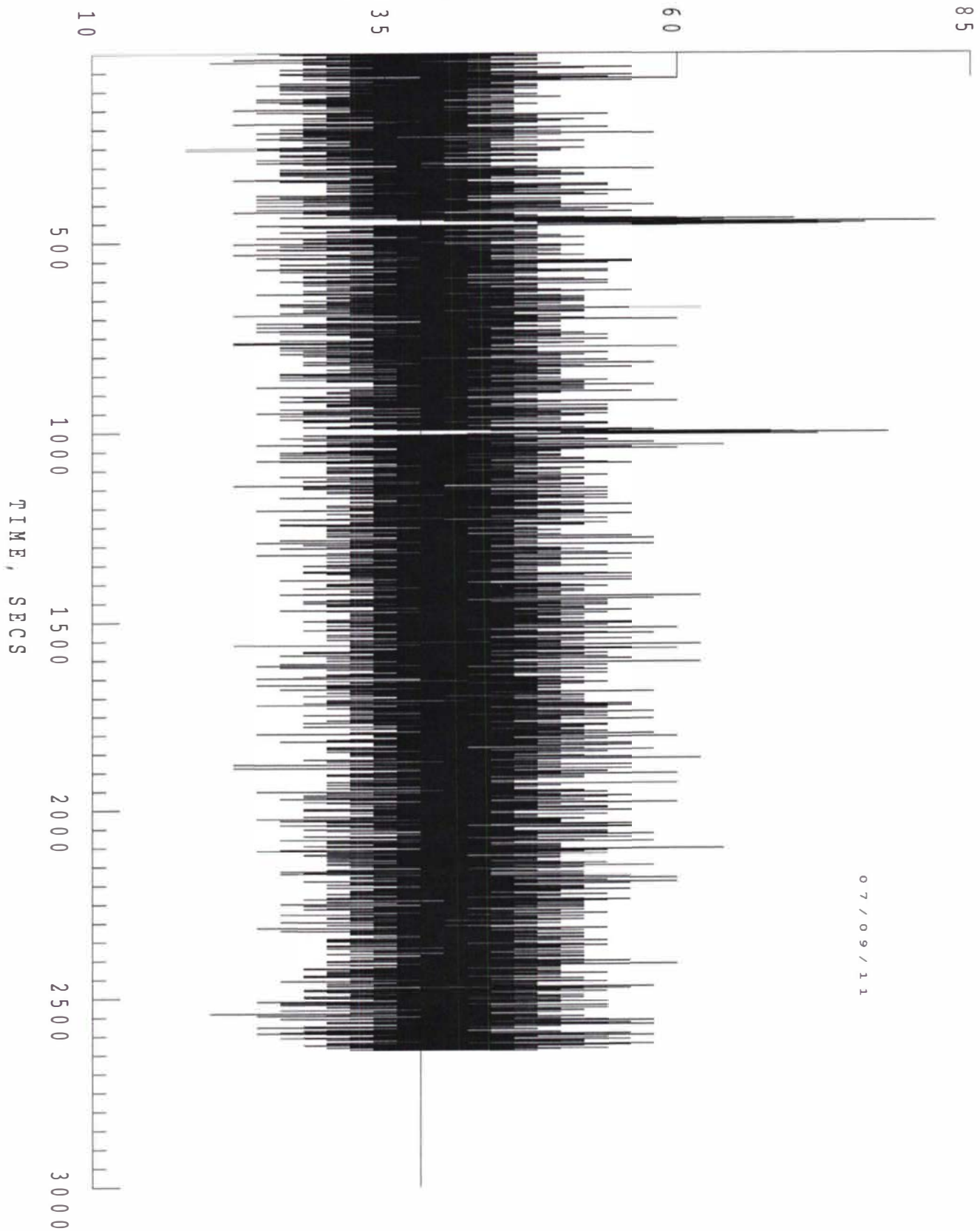
MS01

02/09/11

21648.225

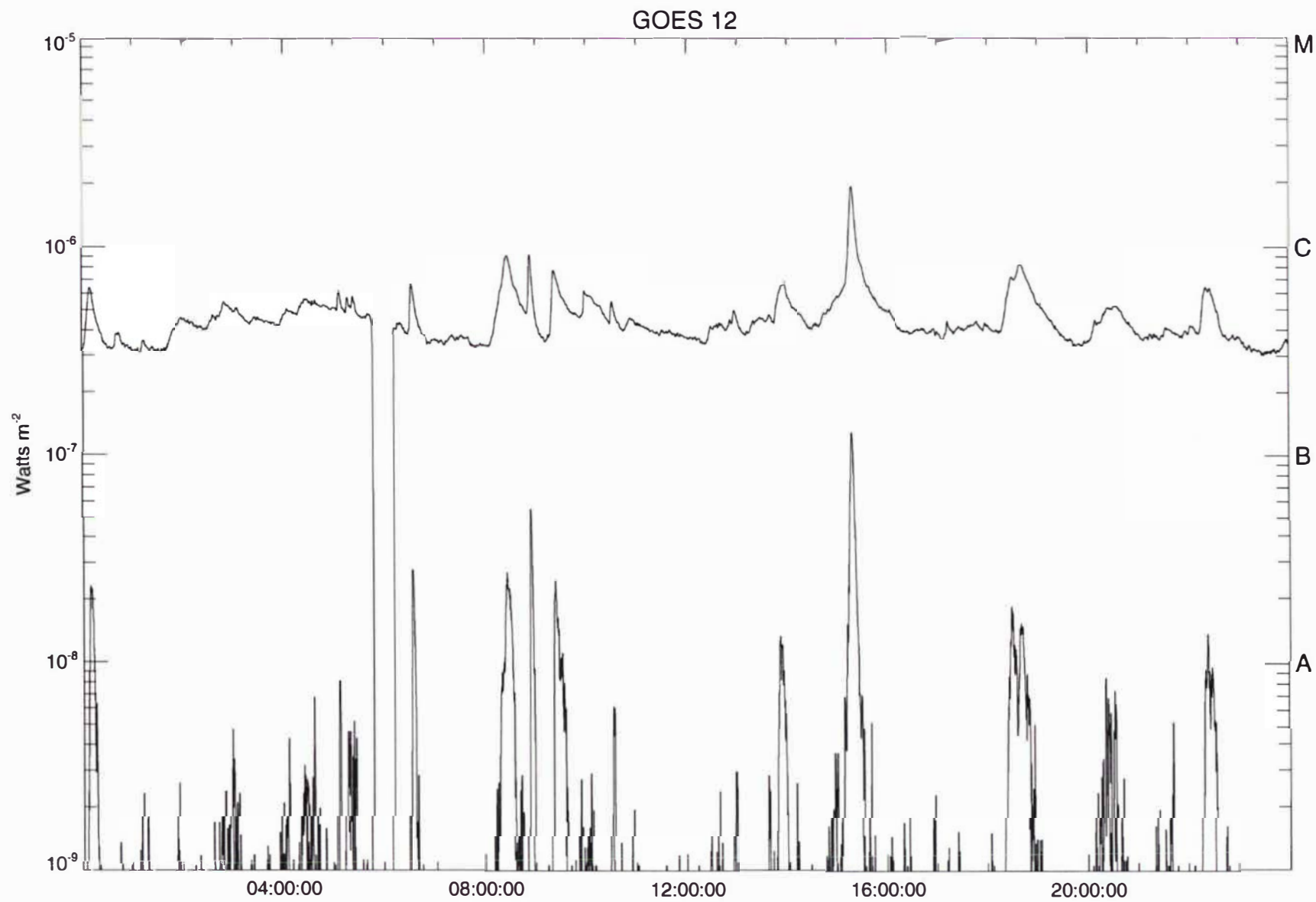
50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Fri Sep 2 05:57:42 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Fri, 2 Sep 2011 05:57:04 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
Cc: khurley@ssl.berkeley.edu
Subject: No RHESSI data for SUZAKU 20110902_22988
X-Ucb-Scan-Signature: 5f0fab23a01d6ae1f004d838240009d75797d76
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 05:57:57.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry



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

Plot created: 11/09/05, 0833

Channel

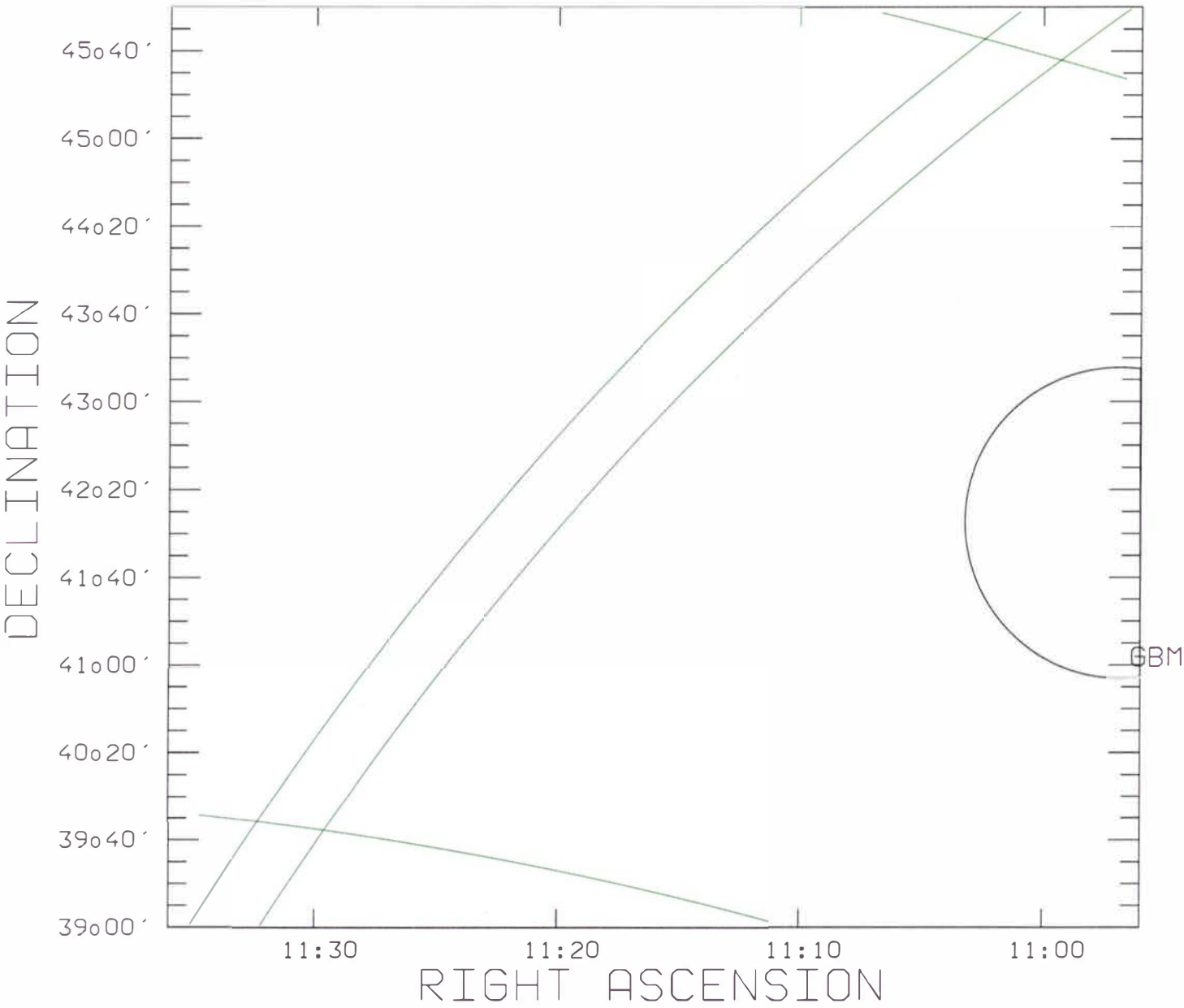
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

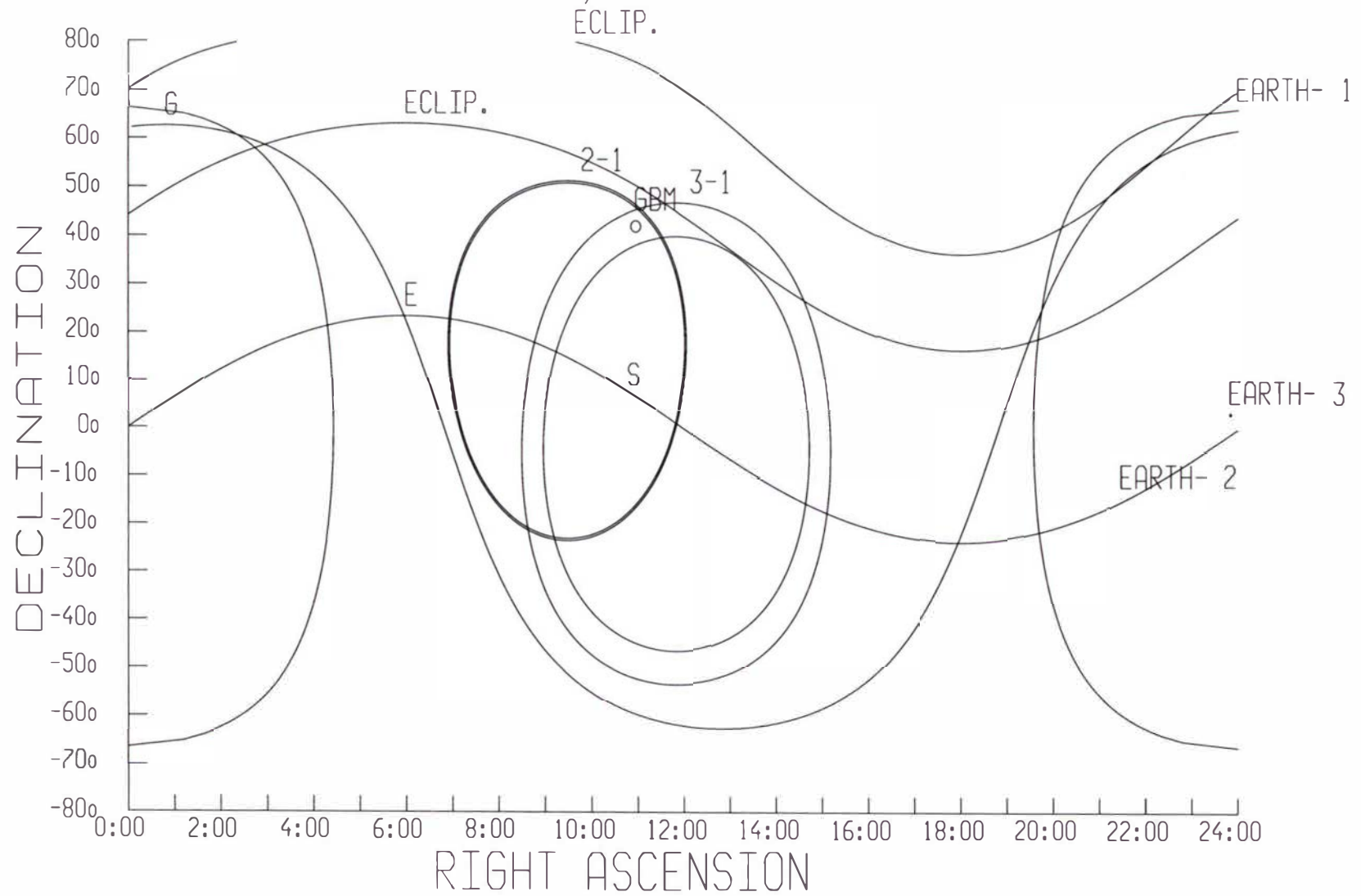
Sample average = 10

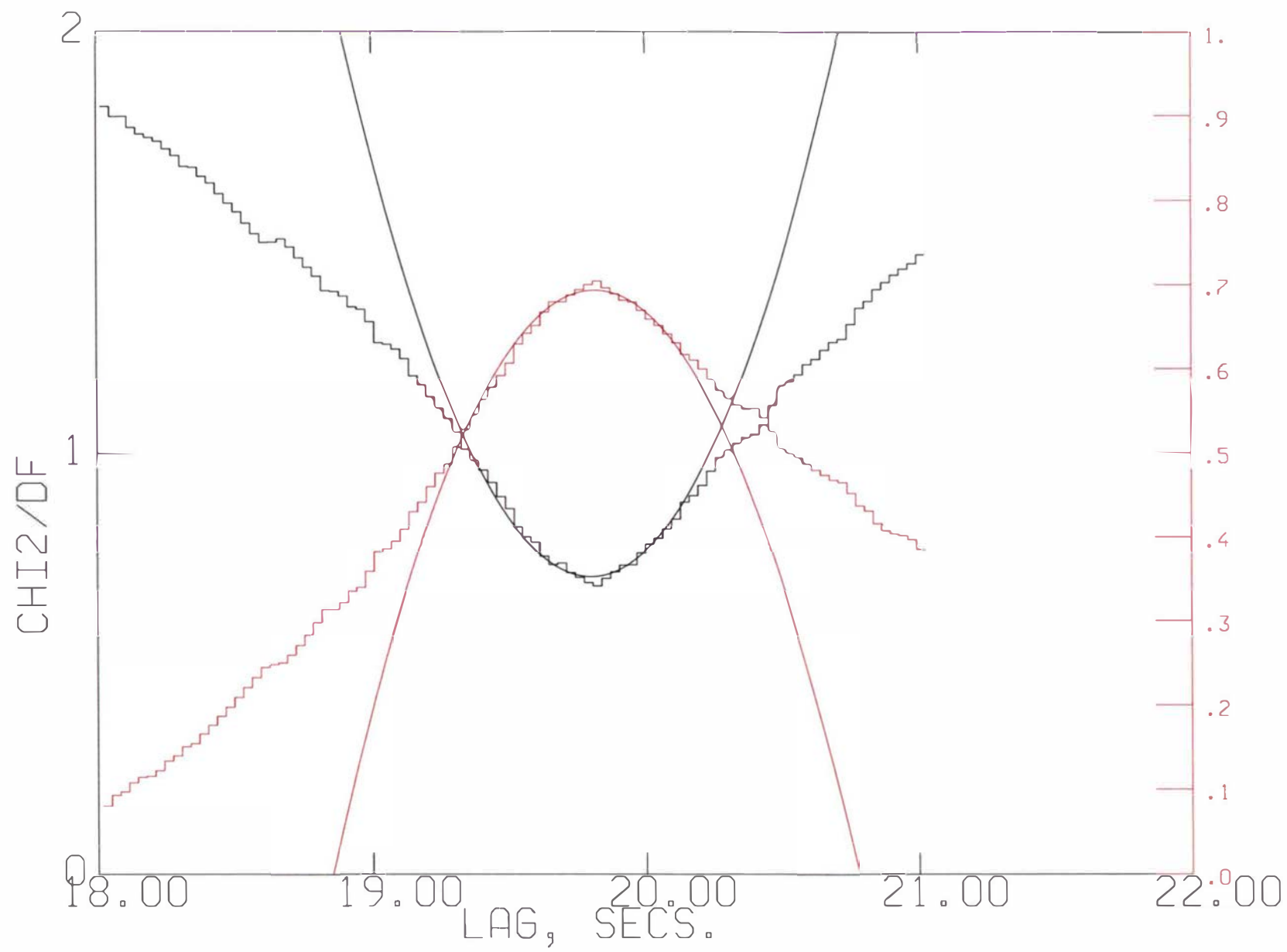


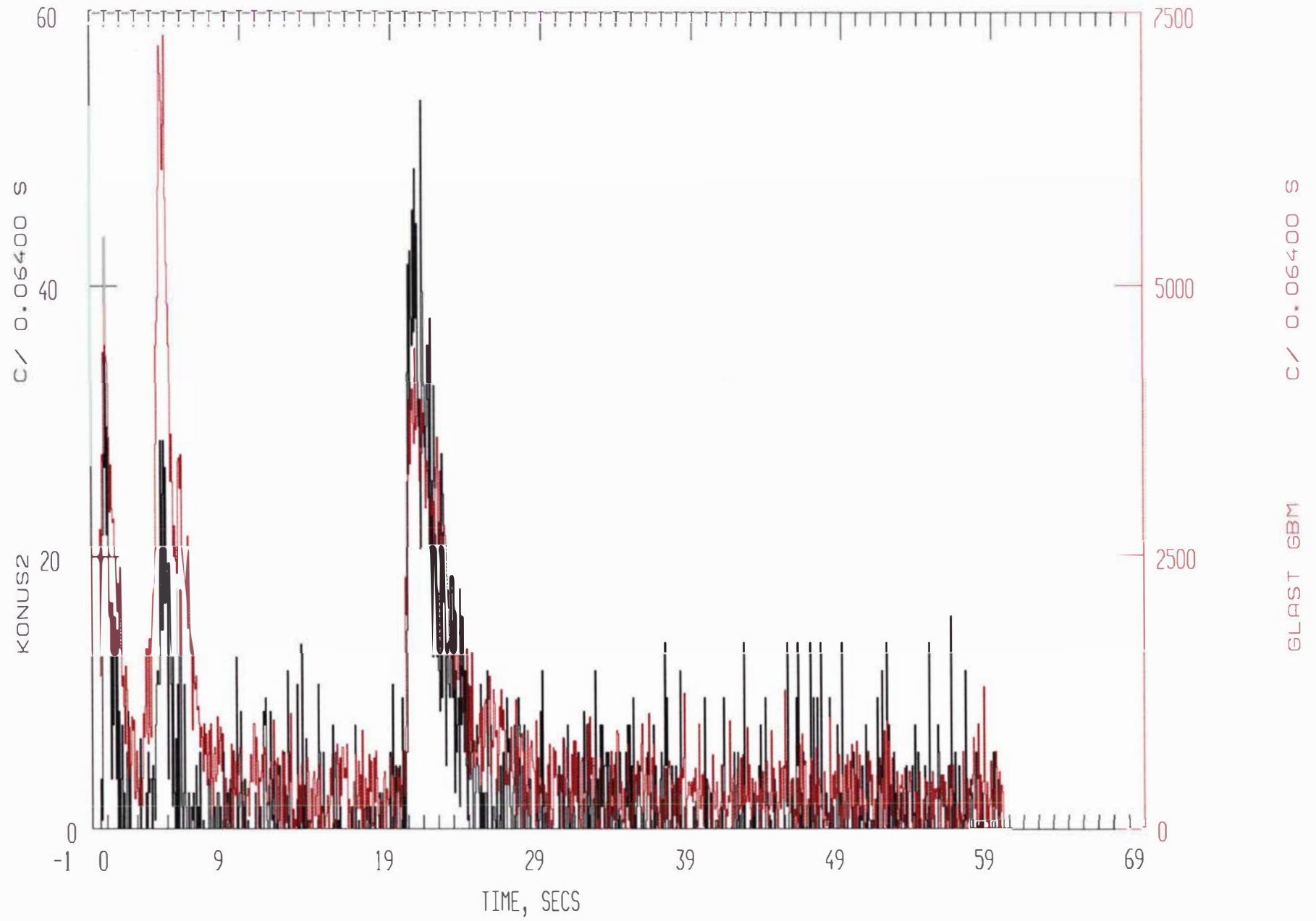
EVENT OF SEP 3, 2011 0:13

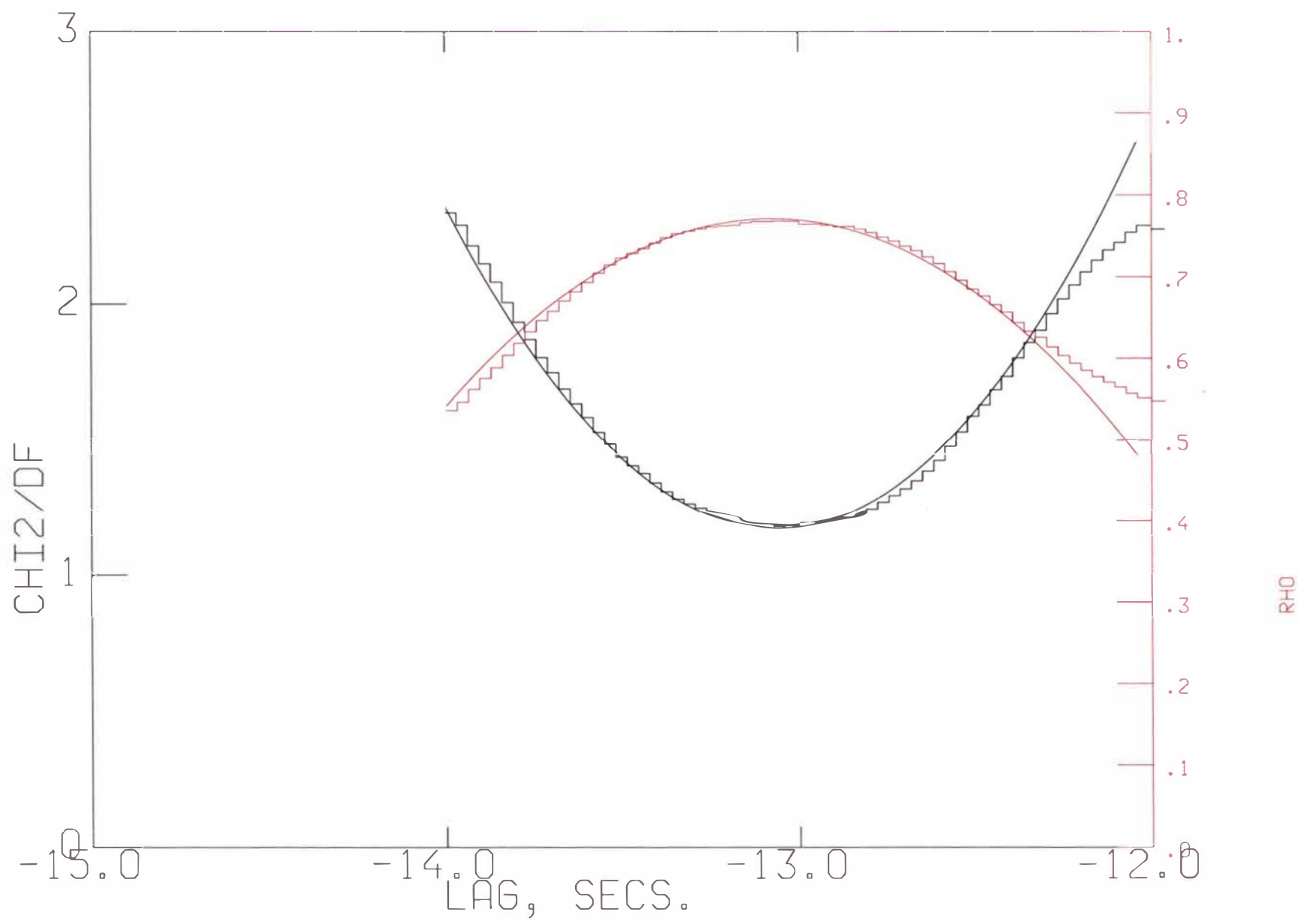
24/07/2015

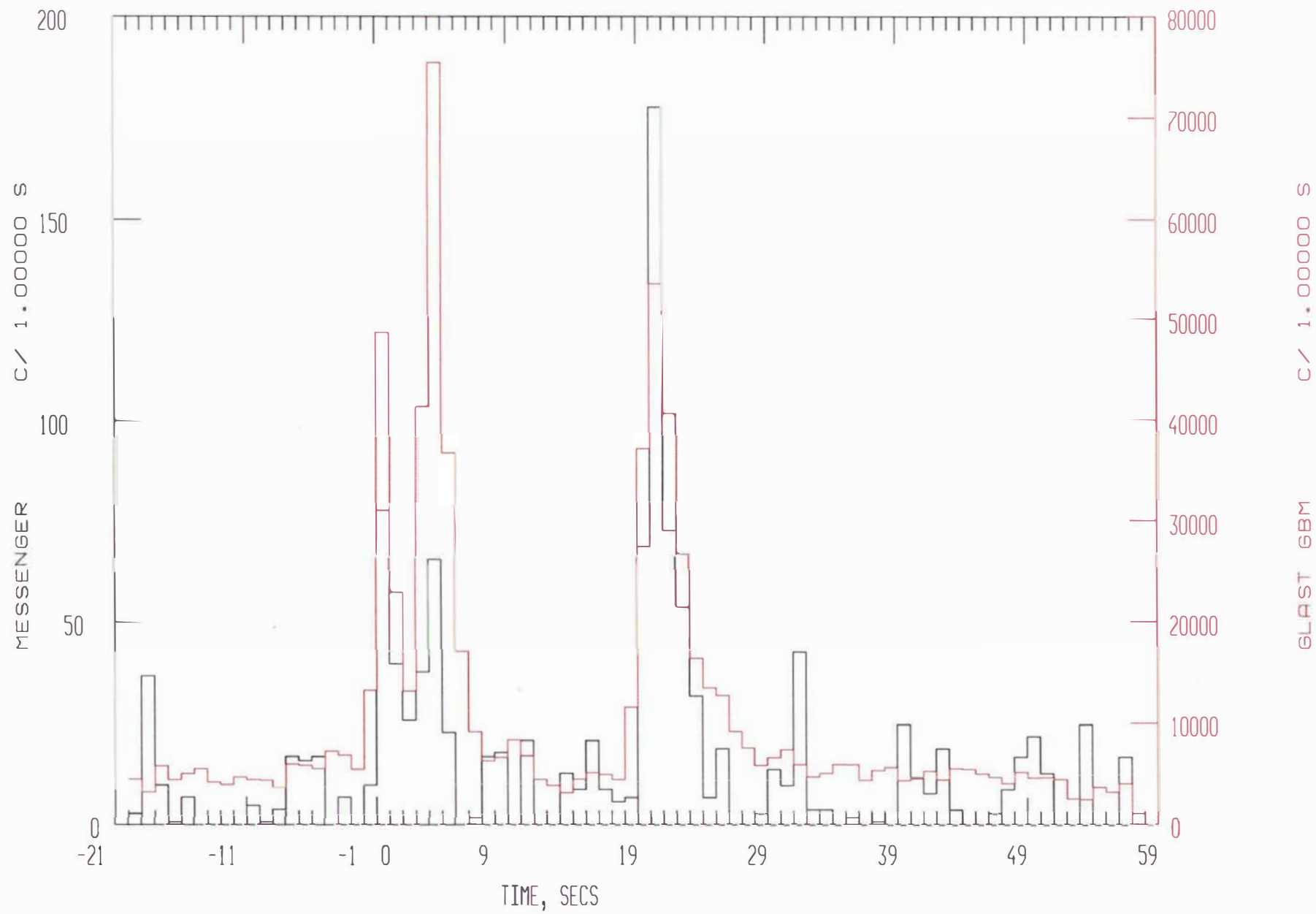
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 FERMI 2 MESSENGER 3 KONUS2











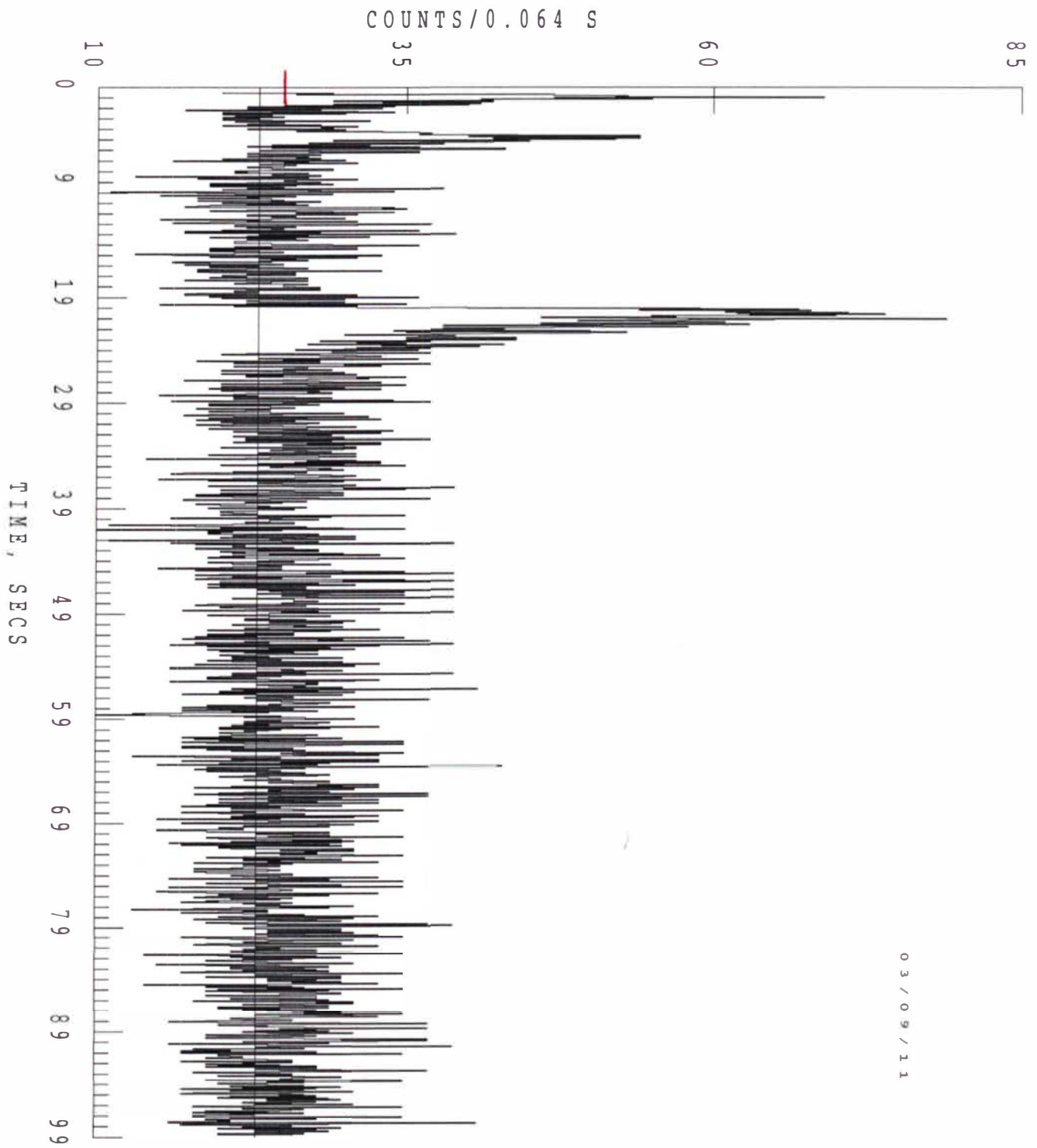
KONUS2

03/09/11

783.485

A

50 - 200 keV



KONUS HRES 20110903 00783

TRIGGER TIME: 03/09/11 DOY 246 Julian 2455808.50906 UT = 00.217 00:13:03 (00783.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

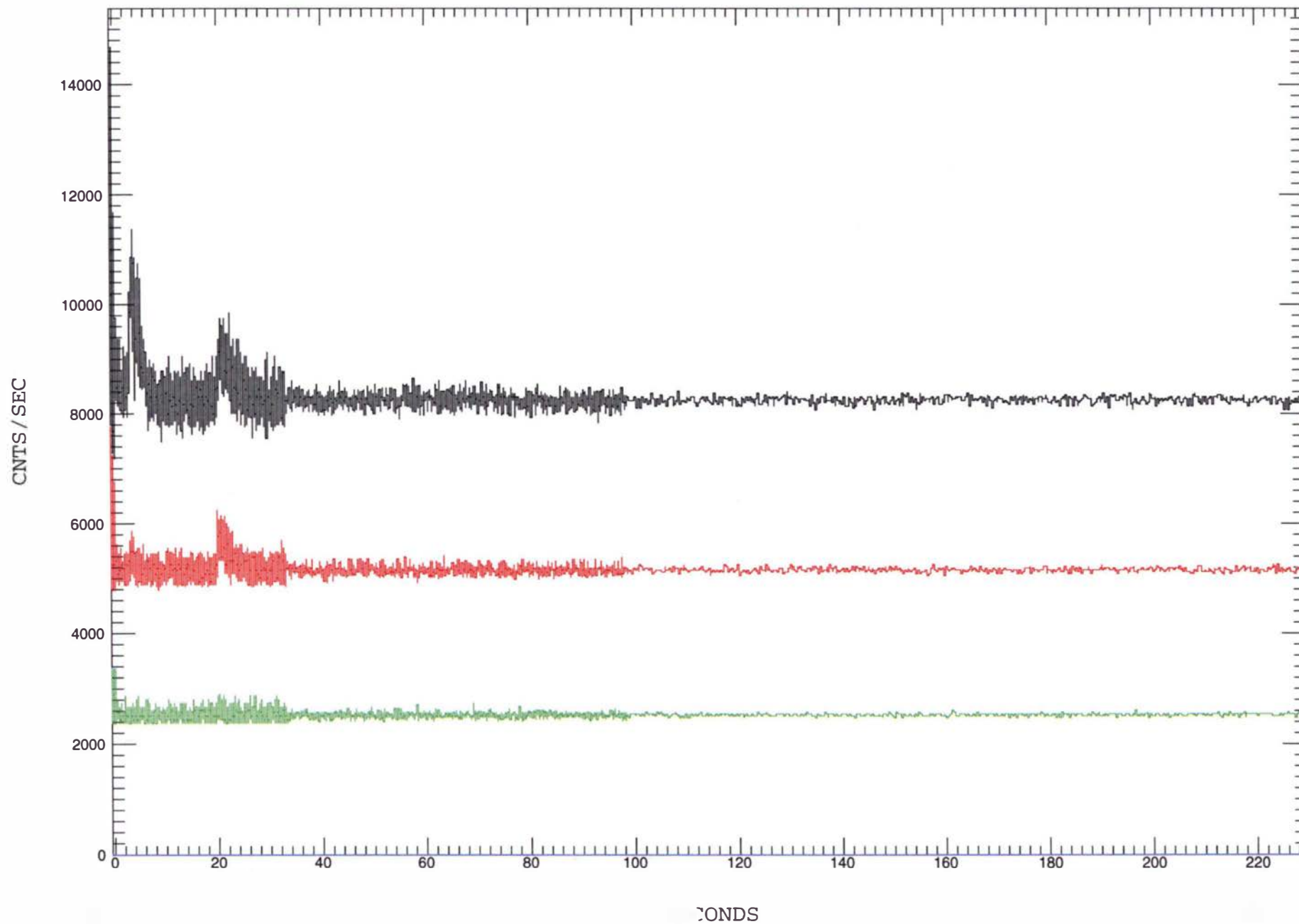
Chan 4 : [> 10 MeV]

Channel 1 + 7200

Channel 2 + 4800

Channel 3 + 2400

Channel 4 + 0



MS01

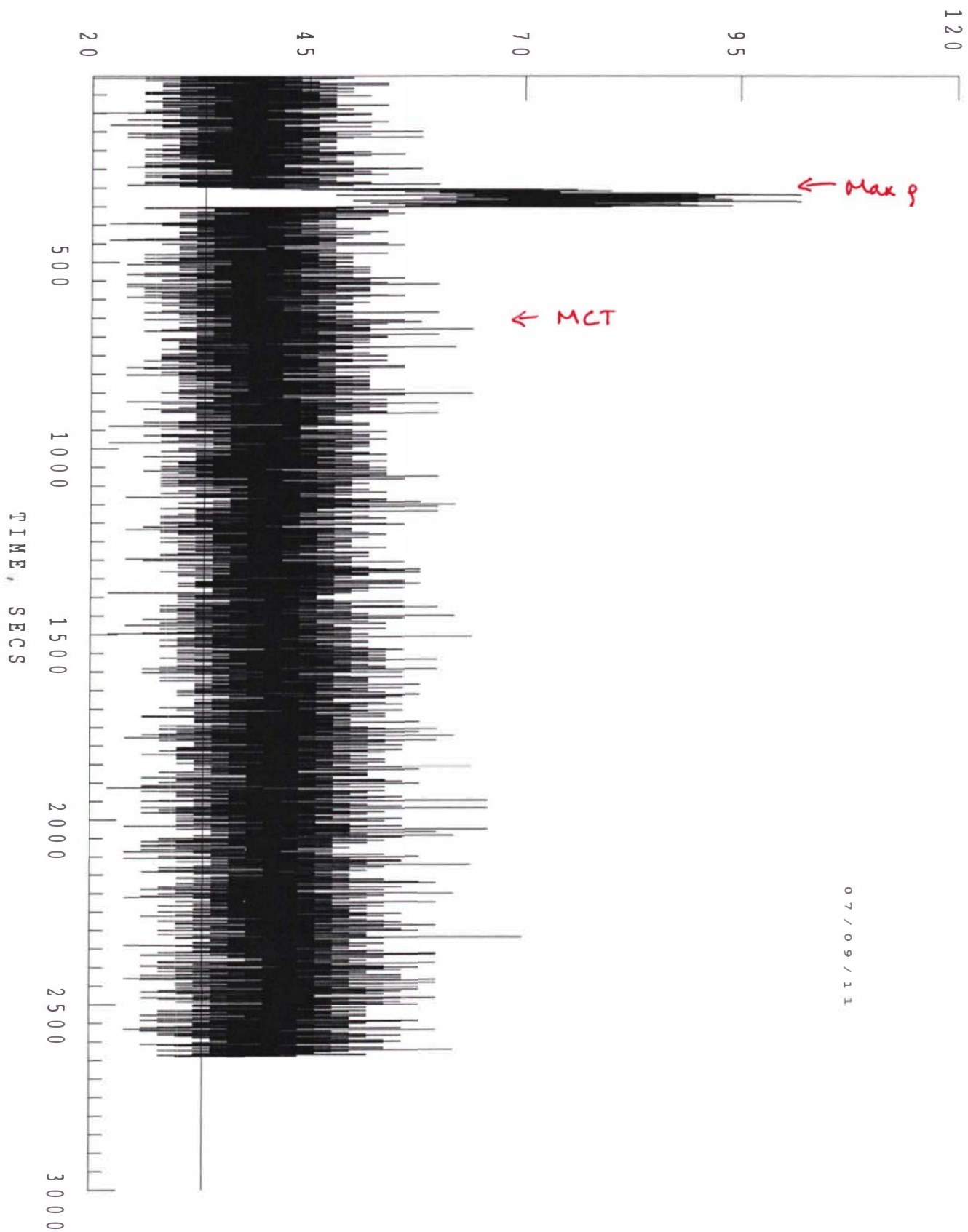
02/09/11

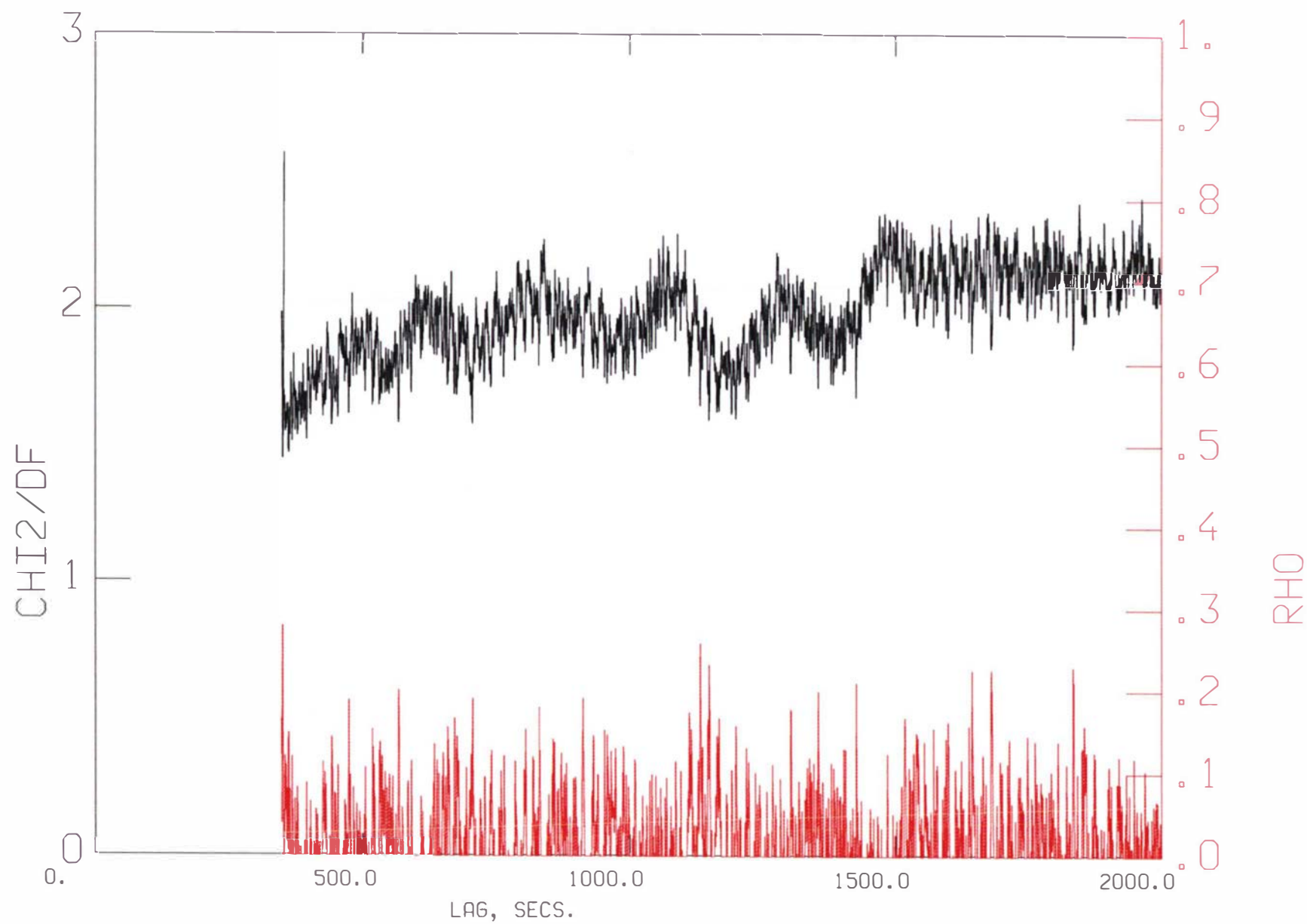
85847.129

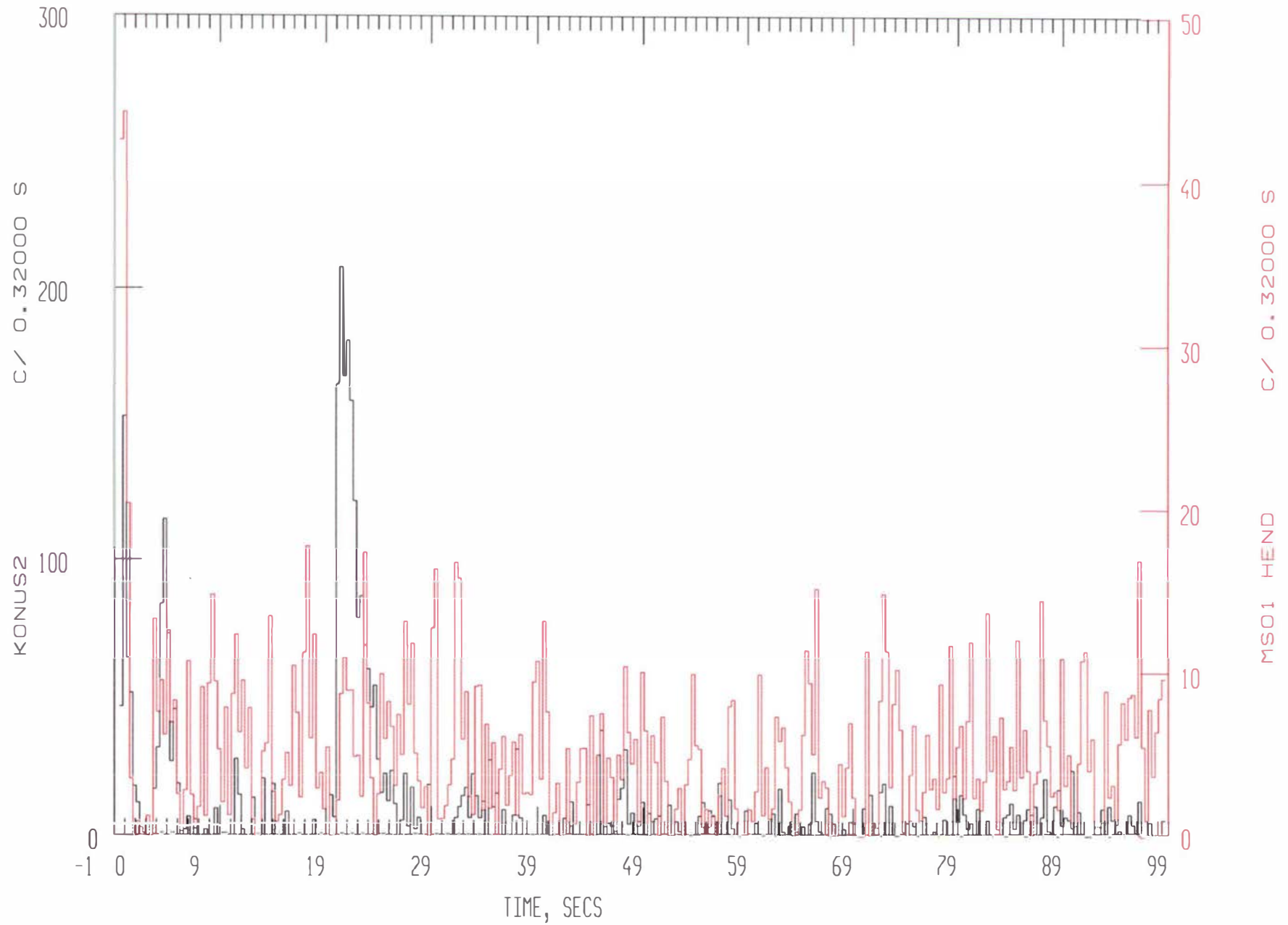
A

50 - 3000 keV

COUNTS/0.250 S







HESSI

03/09/11

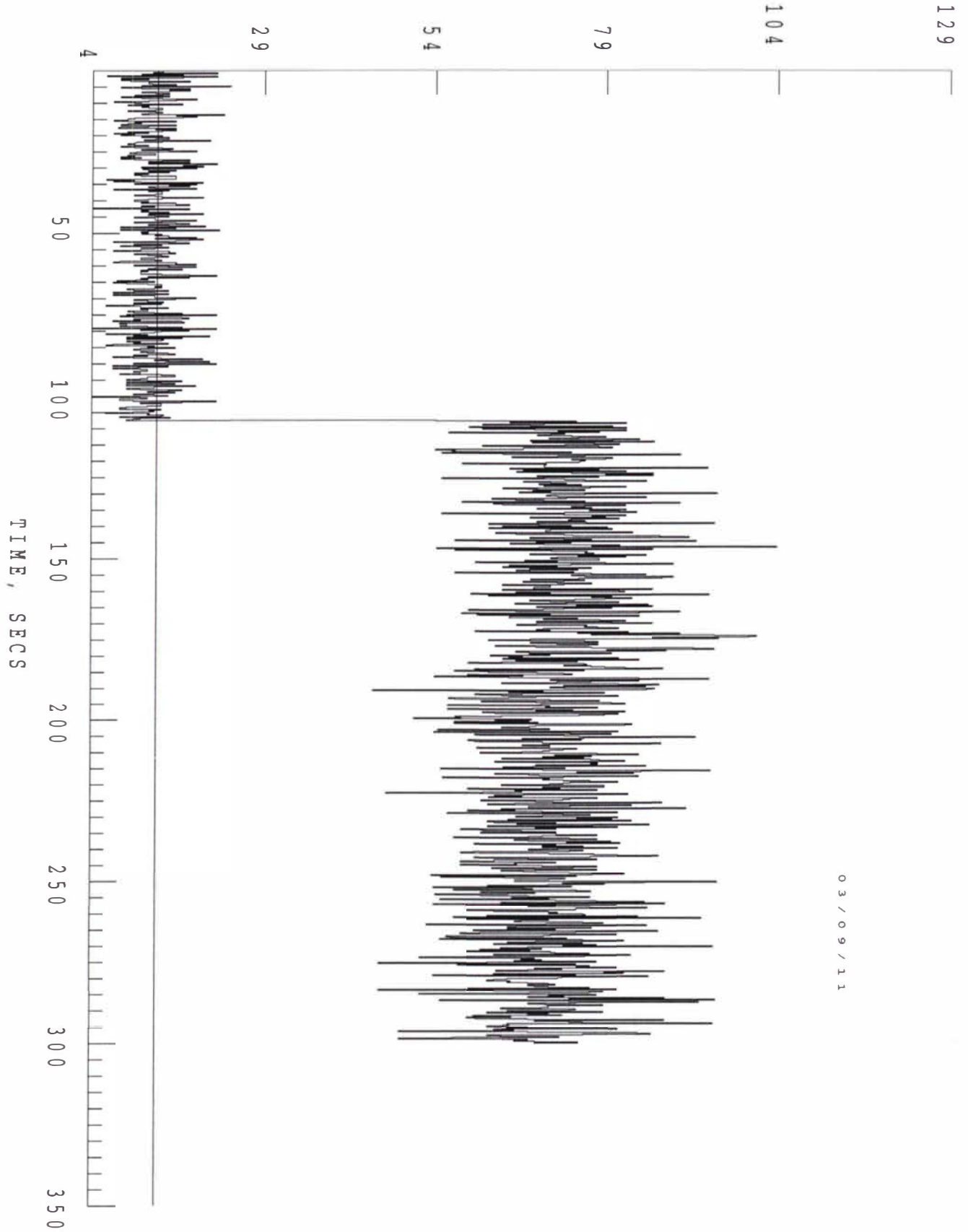
633.000

(KONUS2_20110903_00783)

A

25 - 150 keV

COUNTS/0.250 S



INTEGRAL

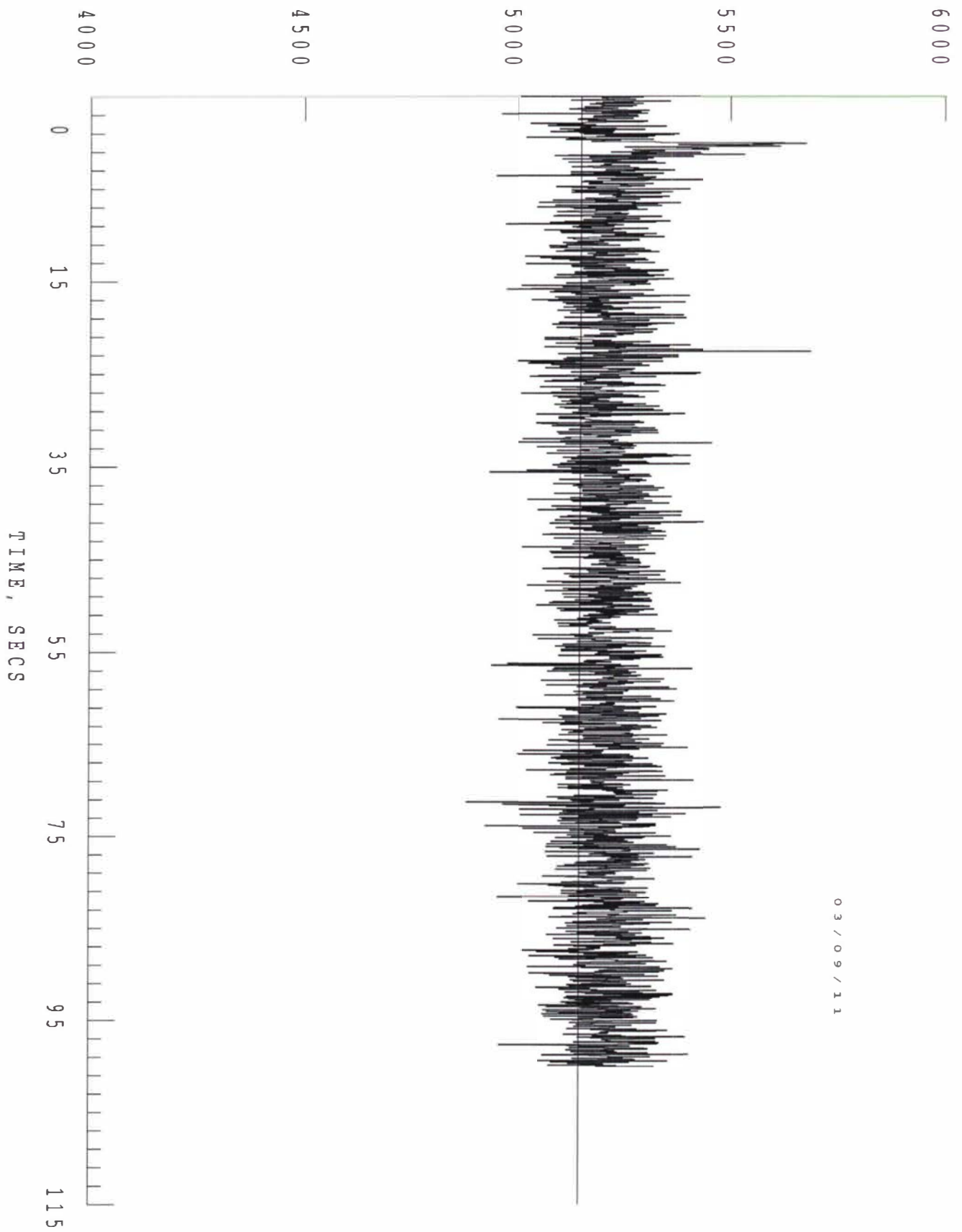
03/09/11

806.414

A

100-10000 keV

COUNTS/0.050 S



Subject: [Ipn] BAT lightcurve for trigger at 110903_0013

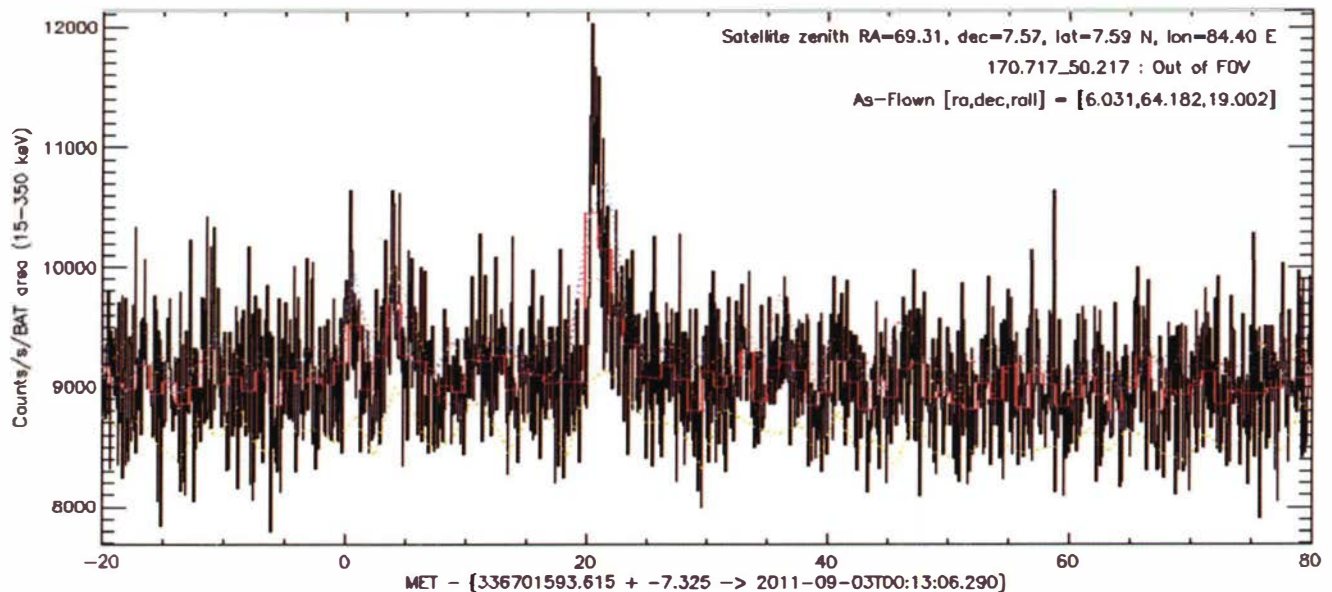
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 2 Sep 2011 22:18:37 -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/110903_0013.png



```
% /usr/local/bin/swinfo -o 336701593.615 -s 164.367_46.183
Time(MET + UTCF -> UT): 336701593.615 + -7.325 -> 2011-09-03T00:13:06.290
Swift Zenith(RA,dec): 69.31, 7.57
Swift Location(lon,lat,alt): 84.40 E, 7.59 N, 575 km
Obs Sequence Number: 00059084002
Obs Target Name: Tycho SNR bot dx 225 - WT
Obs Date and Times: 2011-09-03 00:04:54 - 00:17:50
Obs Pointing(ra,dec,roll): 6.031, 64.182, 19.00
164.367_46.183_imageloc (boresight_dist, angle): (68, -93)
164.367_46.183_exposure (cm2 cos adjusted): 0
164.367_46.183_altitude: 25 (up)
```

```
% /usr/local/bin/swinfo -o 336701593.615 -s 167.770_44.620
Time(MET + UTCF -> UT): 336701593.615 + -7.325 -> 2011-09-03T00:13:06.290
Swift Zenith(RA,dec): 69.31, 7.57
Swift Location(lon,lat,alt): 84.40 E, 7.59 N, 575 km
Obs Sequence Number: 00059084002
Obs Target Name: Tycho SNR bot dx 225 - WT
Obs Date and Times: 2011-09-03 00:04:54 - 00:17:50
Obs Pointing(ra,dec,roll): 6.031, 64.182, 19.00
167.770_44.620_imageloc (boresight_dist, angle): (70, -95)
167.770_44.620_exposure (cm2 cos adjusted): 0
167.770_44.620_altitude: 23 (depressed but unattenuated)
```

```
% /usr/local/bin/swinfo -o 336701593.615 -s 169.870_46.260
Time(MET + UTCF -> UT): 336701593.615 + -7.325 -> 2011-09-03T00:13:06.290
Swift Zenith(RA,dec): 69.31, 7.57
Swift Location(lon,lat,alt): 84.40 E, 7.59 N, 575 km
Obs Sequence Number: 00059084002
Obs Target Name: Tycho SNR bot dx 225 - WT
Obs Date and Times: 2011-09-03 00:04:54 - 00:17:50
Obs Pointing(ra,dec,roll): 6.031, 64.182, 19.00
169.870_46.260_imageloc (boresight_dist, angle): (69, -97)
169.870_46.260_exposure (cm2 cos adjusted): 0
169.870_46.260_altitude: 22 (depressed but unattenuated)
```

```
% /usr/local/bin/swinfo -o 336701593.615 -s 170.717_50.217
Time(MET + UTCF -> UT): 336701593.615 + -7.325 -> 2011-09-03T00:13:06.290
Swift Zenith(RA,dec): 69.31, 7.57
```


[lpn] BAT lightcurve for trigger at 110903_0013

Swift Location(lon,lat,alt): 84.40 E, 7.59 N, 575 km
Obs Sequence Number: 00059084002
Obs Target Name: Tycho SNR bot dx 225 - WT
Obs Date and Times: 2011-09-03 00:04:54 - 00:17:50
Obs Pointing(ra,dec,roll): 6.031, 64.182, 19.00
170.717_50.217_imageloc (boresight_dist, angle): (65, -98)
170.717_50.217_exposure (cm² cos adjusted): 0
170.717_50.217_altitude: 22 (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/110903_0013.png

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

/tmp/110903_0013_bat64ms_ipn

/tmp/110903_0013_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: [Ipn] BAT lightcurve for trigger at 110903_0012

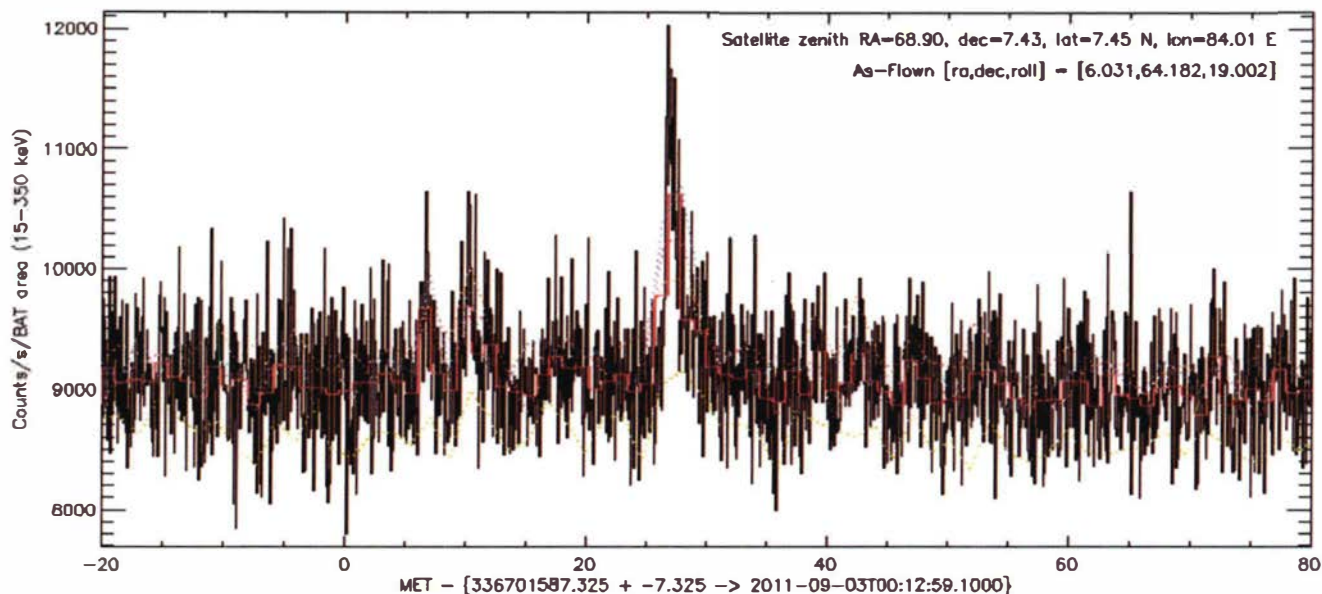
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 3 Sep 2011 02:20:12 -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/110903_0012.png



```
% /usr/local/bin/swinfo -o 336701587.325
Time(MET + UTC -> UT):      336701587.325 + -7.325 -> 2011-09-03T00:12:59.1000
Swift Zenith(RA,dec):       68.90, 7.43
Swift Location(lon,lat,alt): 84.01 E, 7.45 N, 575 km
Obs Sequence Number:        00059084002
Obs Target Name:             Tycho SNR bot dx 225 - WT
Obs Date and Times:          2011-09-03 00:04:54 - 00:17:50
Obs Pointing(ra,dec,roll):   6.031, 64.182, 19.00
```

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

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

/tmp/110903_0012_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110903_0012.png

/tmp/110903_0012.png	Content-Type: image/png Content-Encoding: base64
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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: 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)?
- ☒ 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?

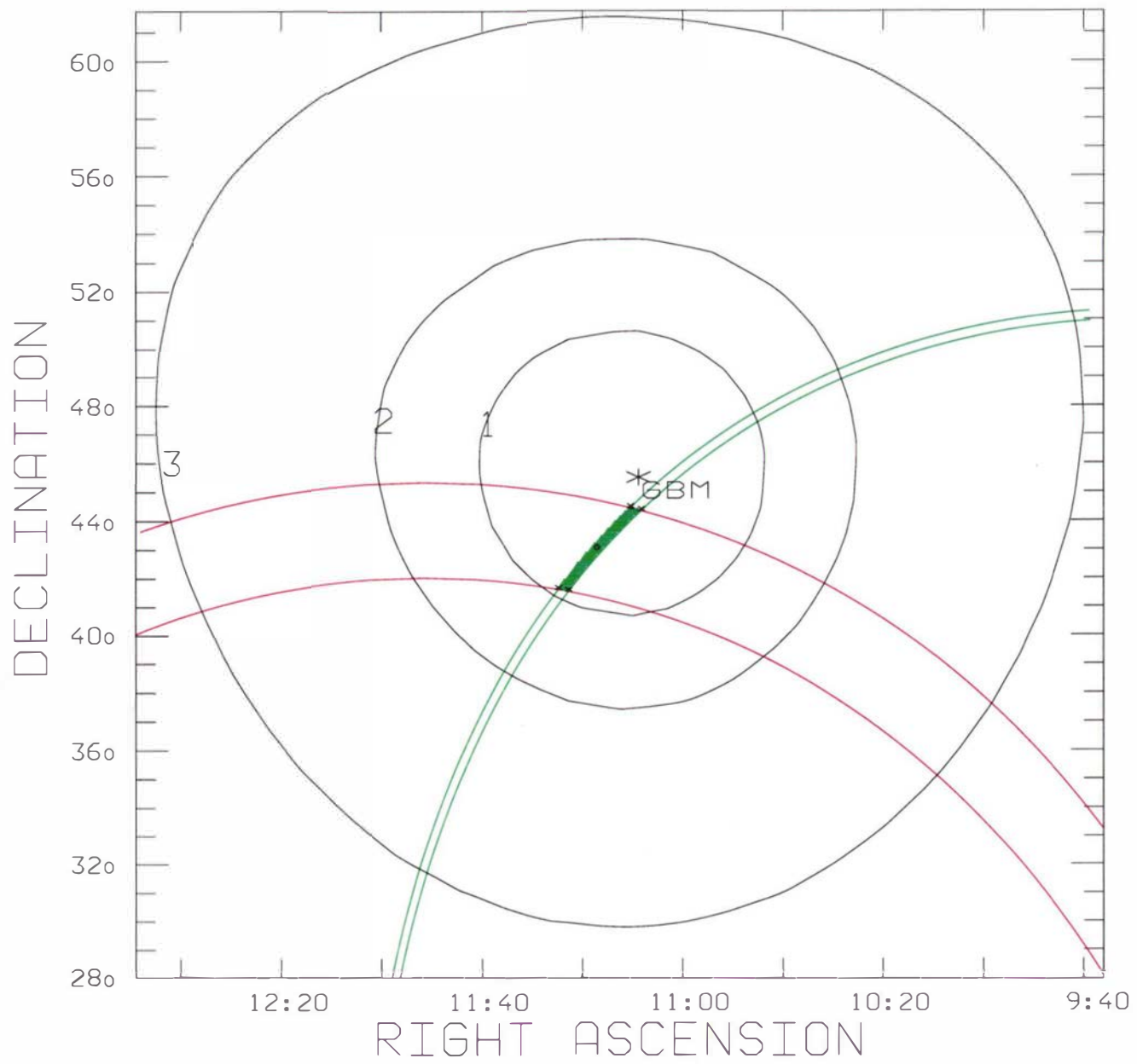
7. For INTEGRAL events

- ☐ 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?

GRB110903 ~00786 S

20/07/2016



A

08/08/11

MESSENGER

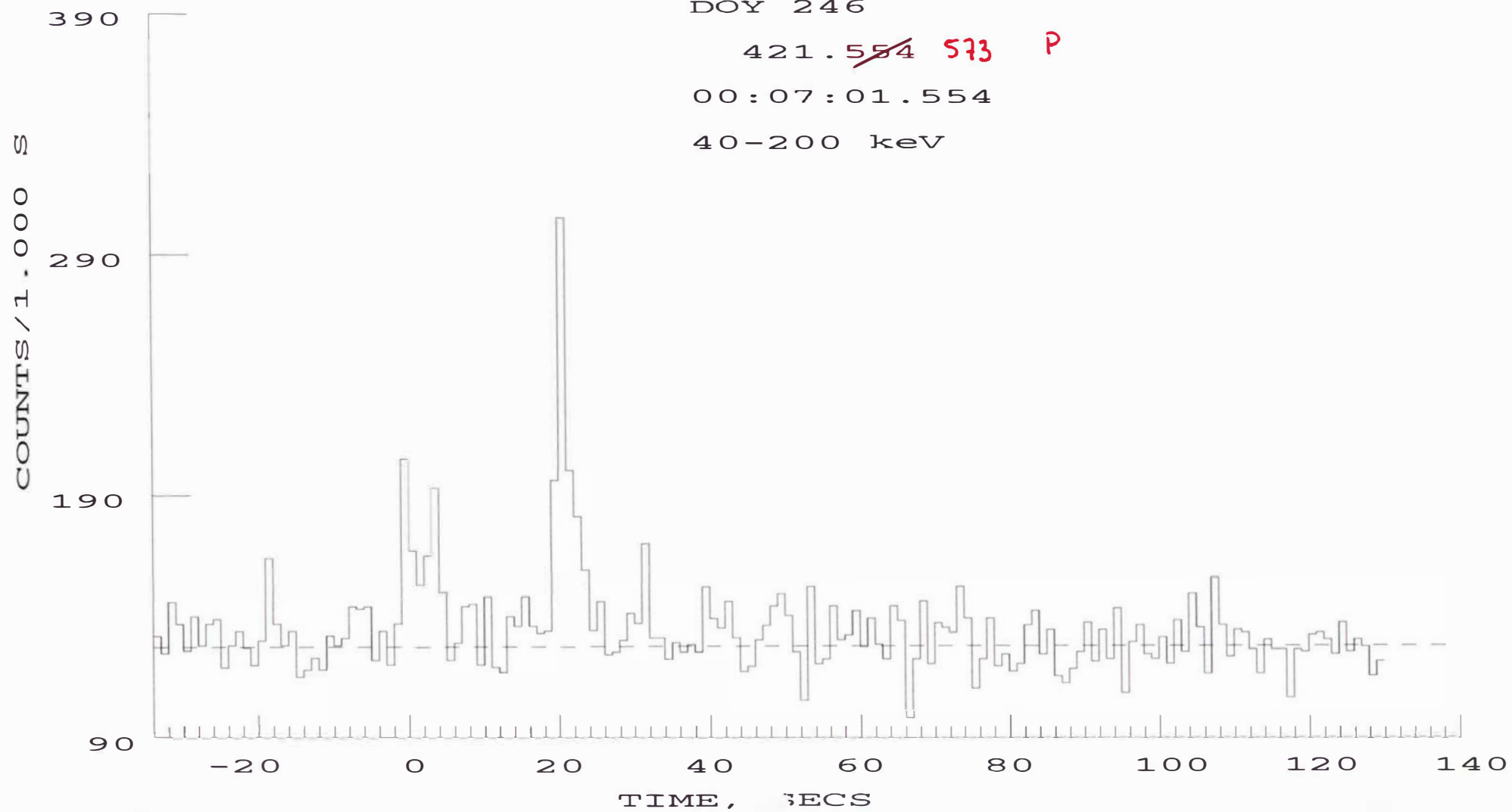
03/09/11

DOY 246

421.5~~54~~ 573 P

00:07:01.554

40-200 keV



SUZAKU

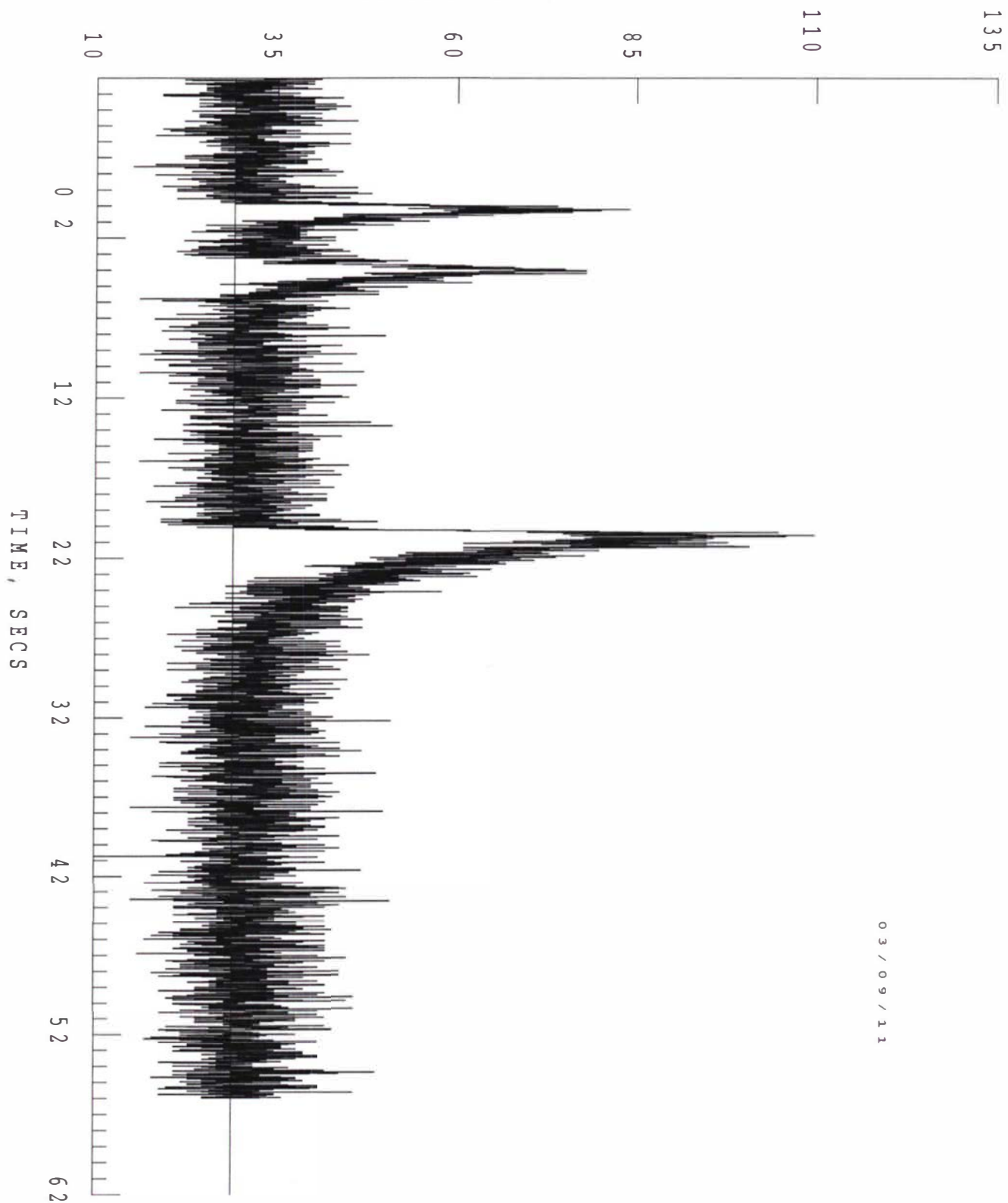
03/09/11

786.299

A

50 - 240 keV

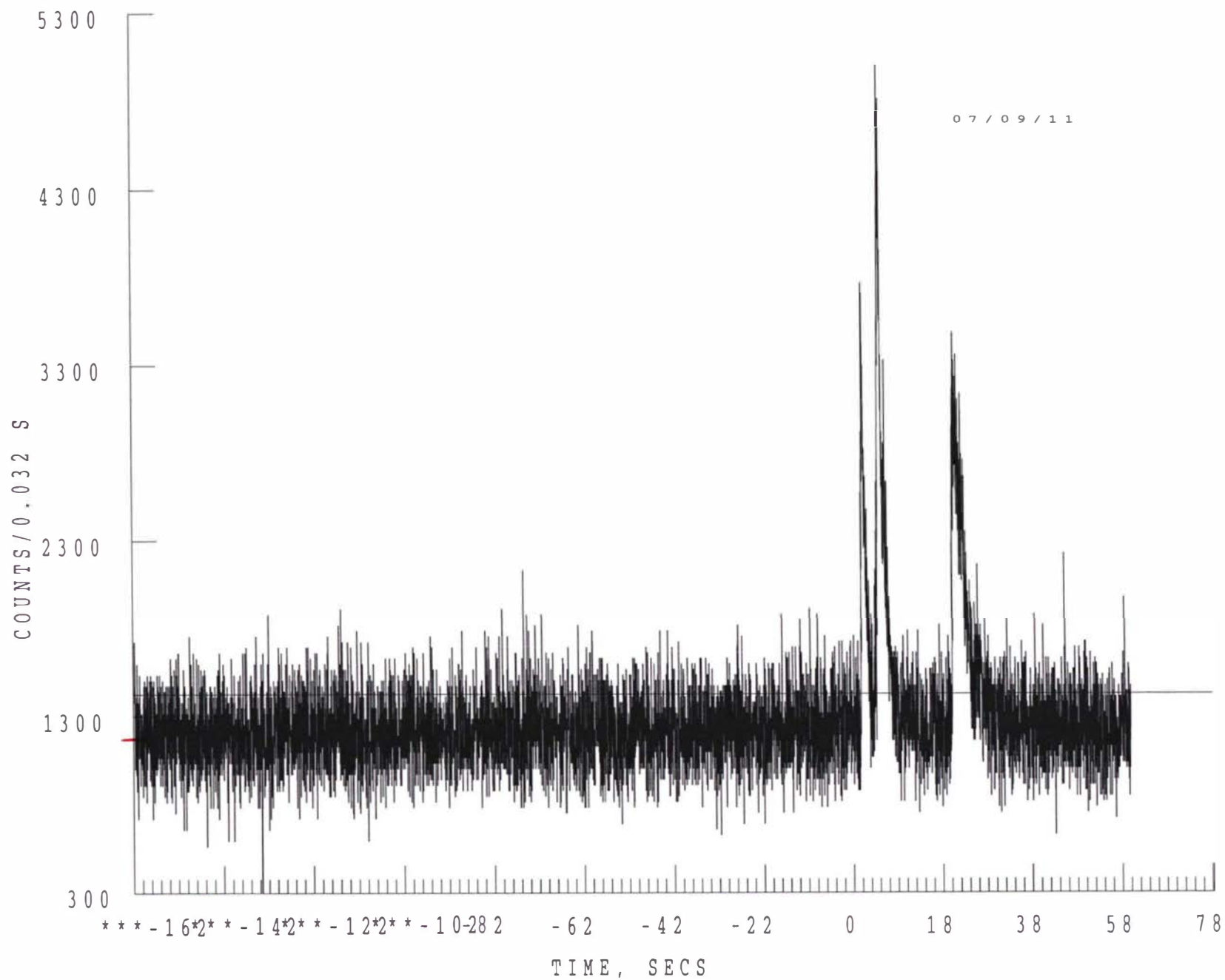
COUNTS/0.016 S



A

03/09/11 786.293 00:13:06
26- 293 keV 164.21, 42.08, 1.18

GLAST



B

From gcncirc@capella2.gsfc.nasa.gov Fri Sep 2 20:53:11 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 110903A: a long GRB detected by INTEGRAL
To: khurley@ssl.berkeley.edu
Date: Fri, 2 Sep 2011 23:54:35 -0400 (EDT)
X-Ucb-Scan-Signature: ca1326c6324dd5f127831863dcab6a6b1baf8b66
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: 12322
SUBJECT: GRB 110903A: a long GRB detected by INTEGRAL
DATE: 11/09/03 03:54:34 GMT
FROM: Sandro Mereghetti at IASF/CNR <sandro@iasf-milano.inaf.it>

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

a long gamma ray burst lasting about 400 s has been detected by IBAS in the IBIS/ISGRI data at 02:39:55 UT of September 3.

9595

Its refined coordinates (J2000) are:

RA: 197.0614 [degrees]
DEC: 58.9852 [degrees]

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

The light curve consists of three main peaks starting approximately at t_0 , t_0+200 s, and t_0+300 s. The high count rate of the burst saturated the ISGRI telemetry.

A plot of the light curve will be posted at

http://ibas.iasf-milano.inaf.it/IBAS_Results.html

13

From gcncirc@capella2.gsfc.nasa.gov Sat Sep 3 18:57:59 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 110903A: Fermi GBM observation
cc: khurley@ssl.berkeley.edu
Date: Sat, 3 Sep 2011 21:59:28 -0400 (EDT)
X-Ucb-Scan-Signature: 650f1936e80b6398503e8472fbda77337652fc4a
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: 12326
SUBJECT: GRB 110903A: Fermi GBM observation
DATE: 11/09/04 01:59:26 GMT
FROM: Sheila McBreen at MPE <smcbreen@mpe.mpg.de>

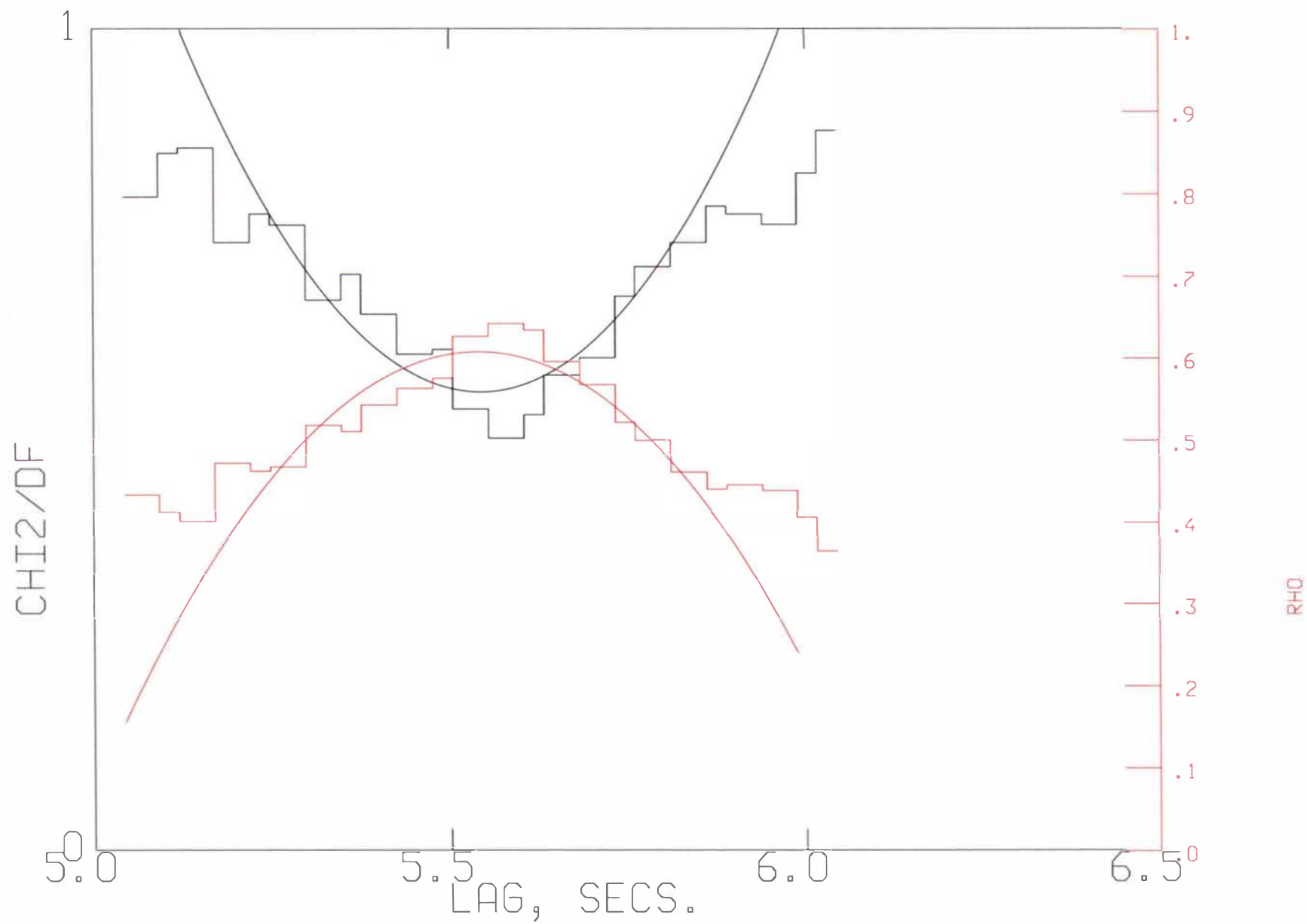
S. McBreen (UCD/MPE) and G. Fitzpatrick (UCD)
report on behalf of the Fermi GBM Team:

"At 02:39:34.42 UT on 03 September 2011, the Fermi Gamma-Ray Burst Monitor triggered and located GRB 110903A (trigger 336710376 / 110903111), which was also detected by INTEGRAL (Mereghetti et al. 2011, GCN 12322) and Konus-Wind (Golenetskii et al. 2011, GCN 12323). The GBM on-ground location is consistent with the INTEGRAL position. The angle from the Fermi LAT boresight is 44 degrees.

The GBM light curve shows/consists of 3 main emission phases with a duration (T90) of about 339.9 (+/-2.3)s (50-300 keV). The time-averaged spectrum from T0-0 s to T0+339 s is well fit by a power law function with an exponential high-energy cutoff. The power law index is -0.88 +/- 0.04 and the cutoff energy, parameterized as Epeak, is 281.3 +/- 21.1 keV.

The event fluence (10-1000 keV) in this time interval is (3.3E-05 +/- 0.1)E-05 erg/cm^2. The 1.024-sec peak photon flux measured starting from T0+7.7 s in the 10-1000 keV band is 5.24 +/- 0.22 ph/s/cm^2.

The spectral analysis results presented above are preliminary; final results will be published in the GBM GRB Catalog."



KONUS2

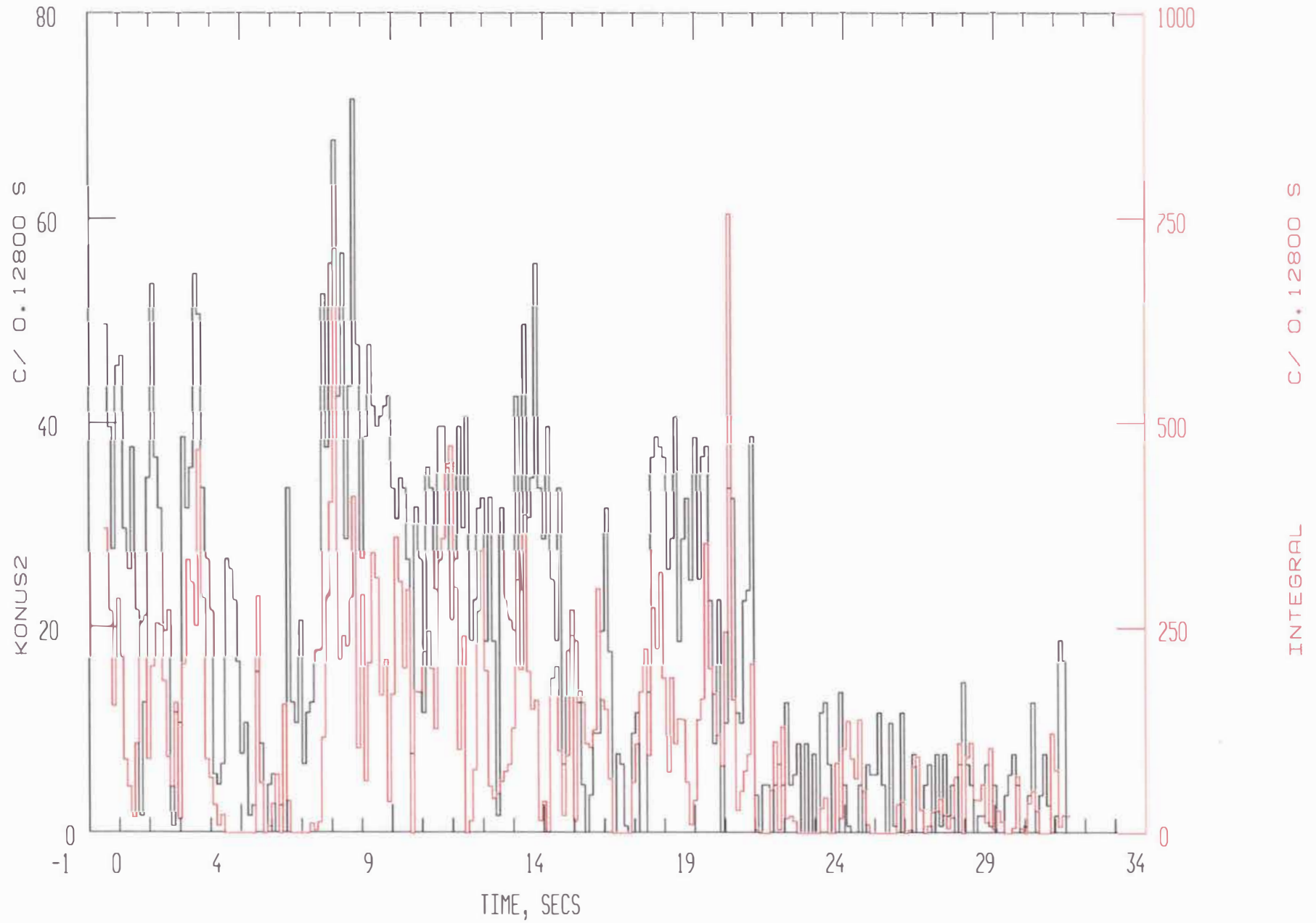
-INTEGRAL

CORRELATION

03/09/11

9573.115

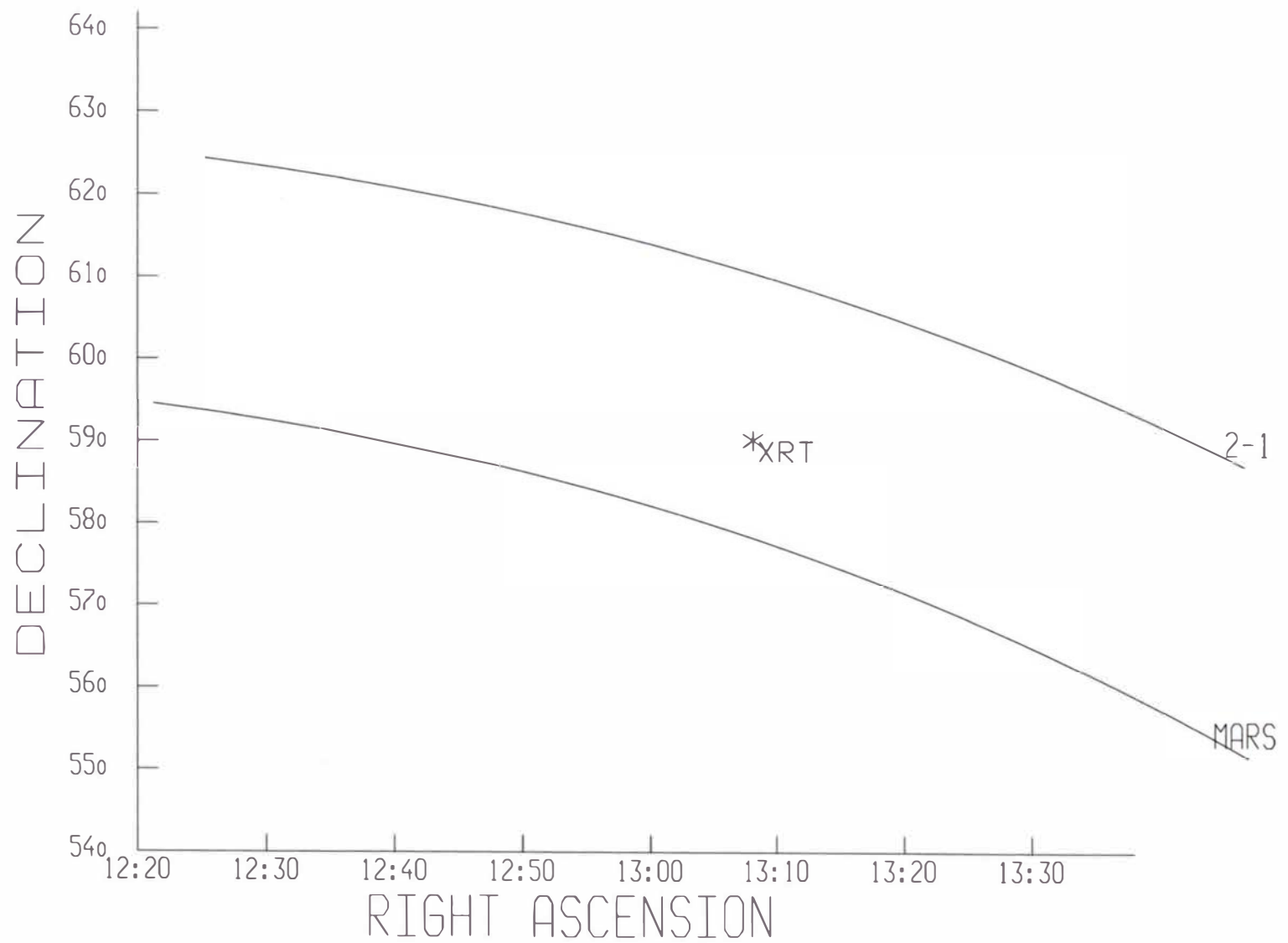
30/ 1/12

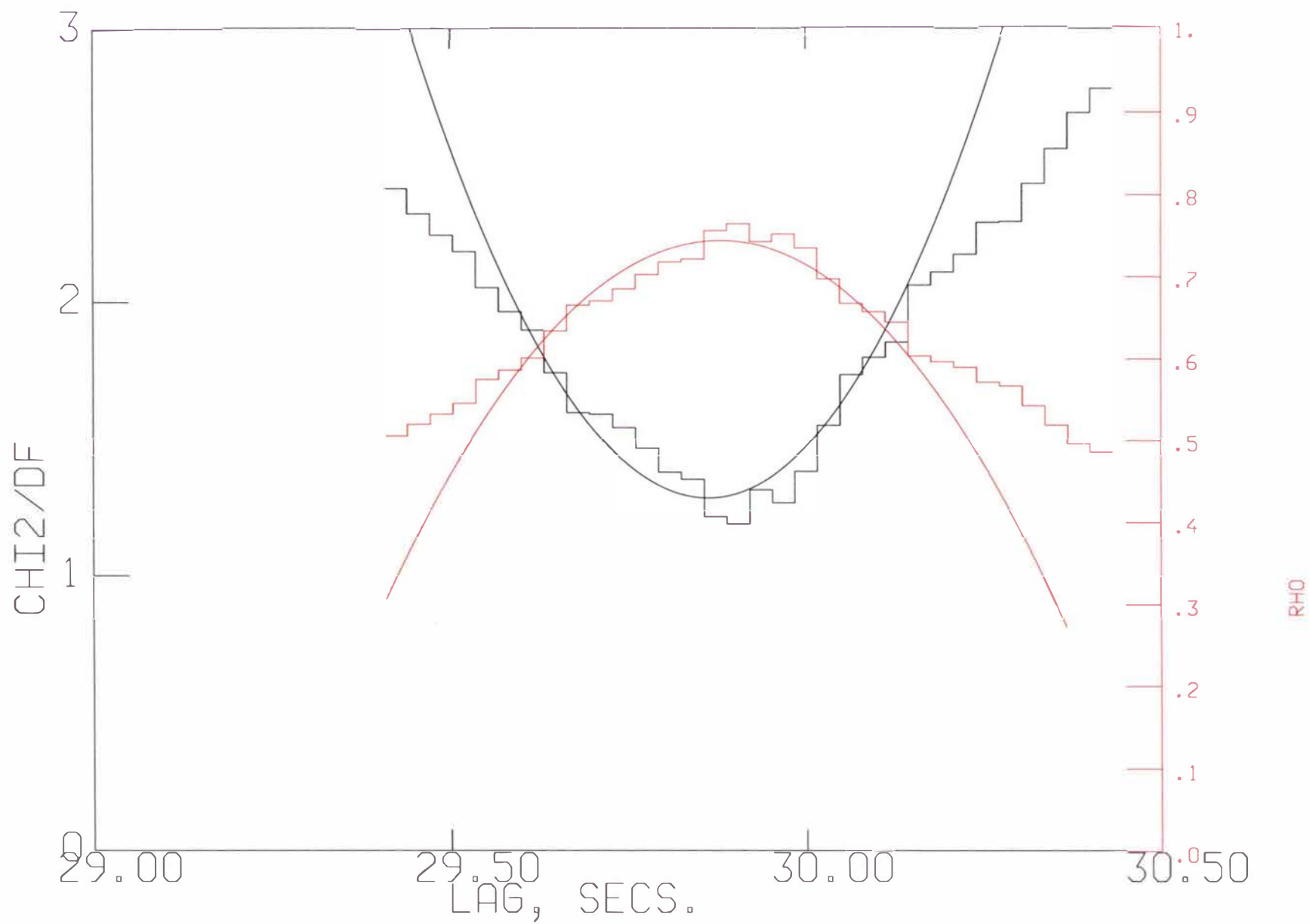


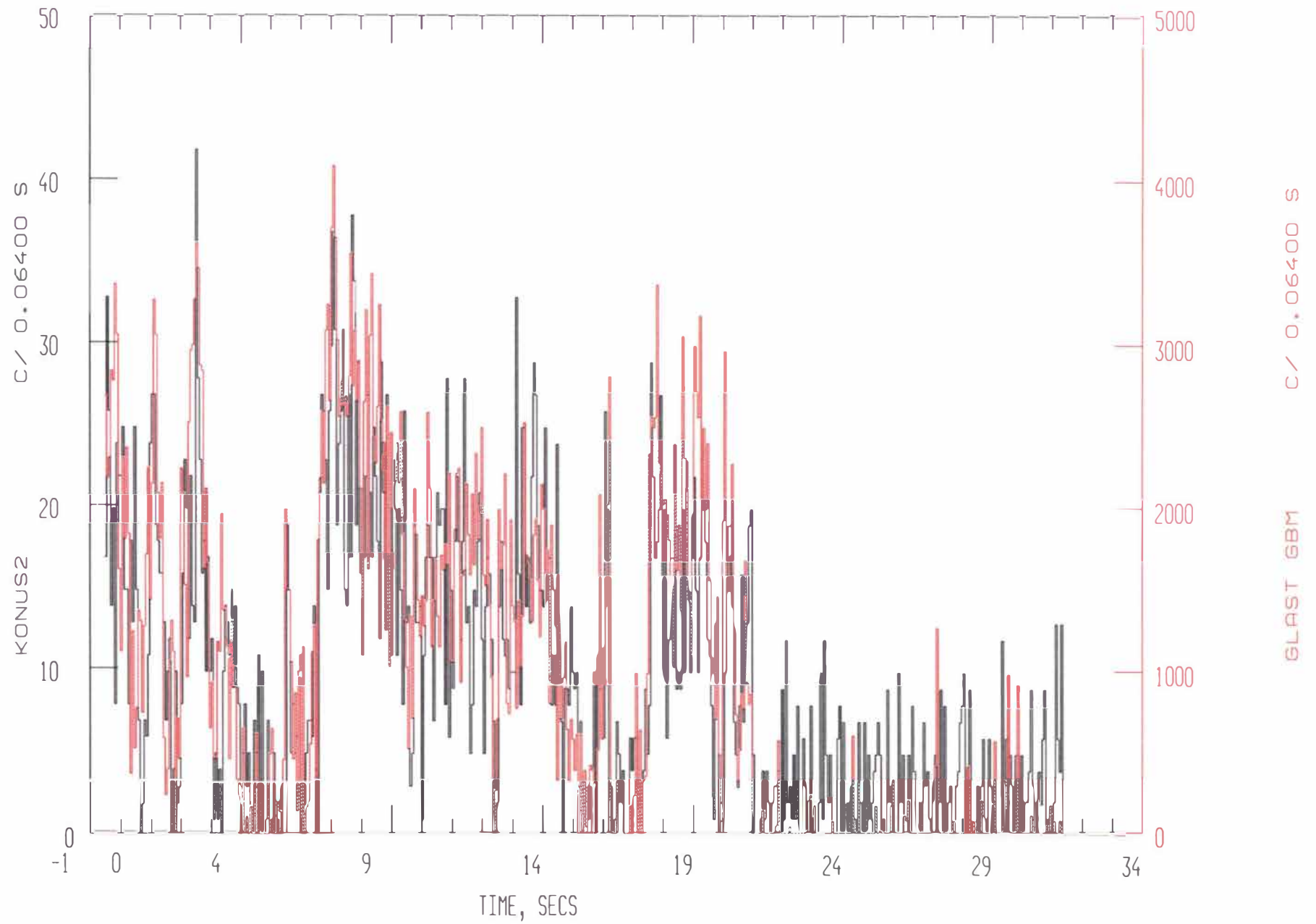
EVENT OF SEP 3, 2011 2:39

30/01/2012

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 INTEGRAL



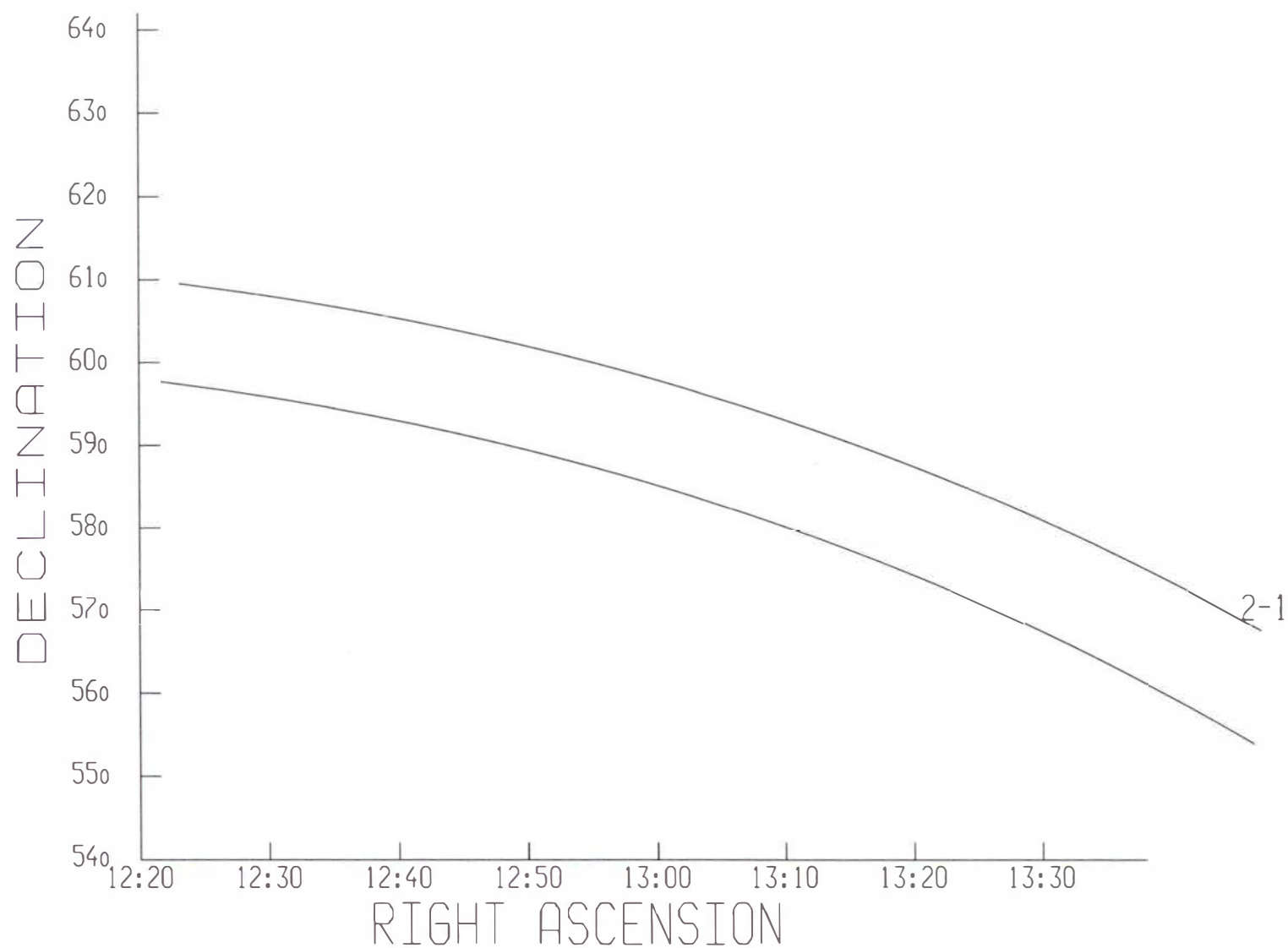




EVENT OF SEP 3, 2011 2:39

30/01/2012

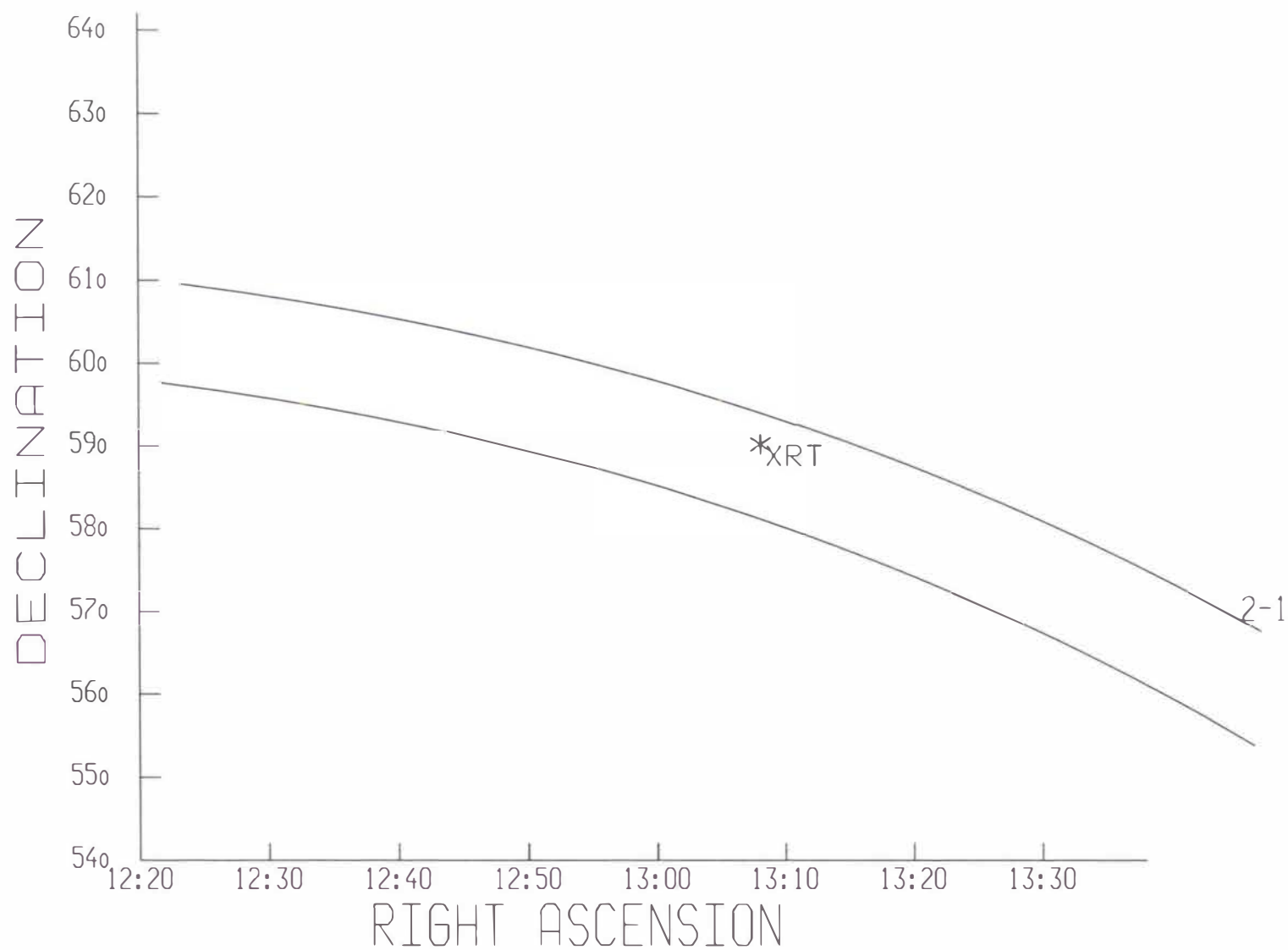
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 KONUS2 2 FERMI



EVENT OF SEP 3, 2011 2:39

30/01/2012

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 FERMI



KONUS2

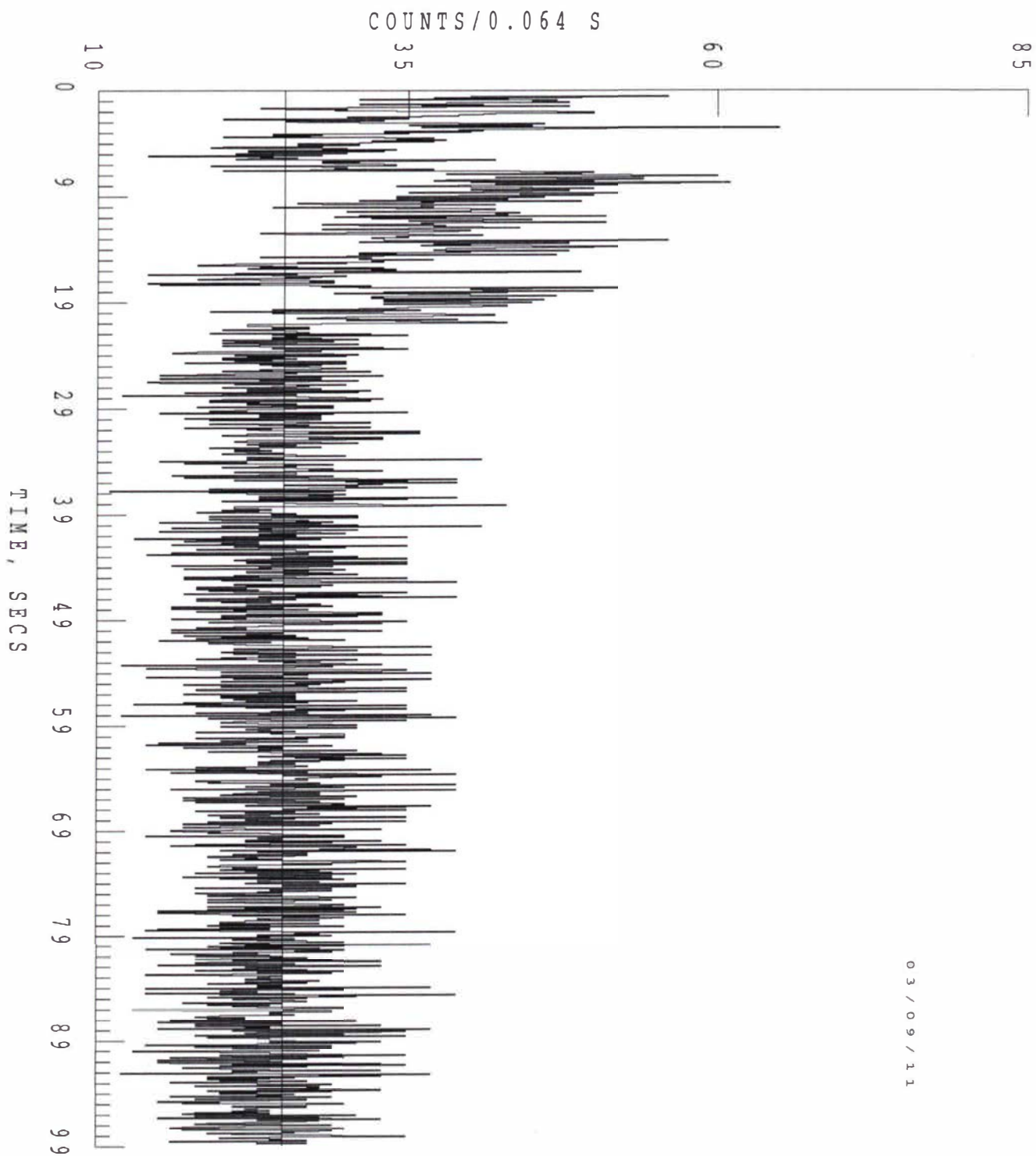
03/09/11

9573.115

B

50 - 200 keV

371 s long on Konus



KONUS HRES 20110903 09573

TRIGGER TIME: 03/09/11 DOY 246 Julian 2455808.61080 UT = 02.659 02:39:33 (09573.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

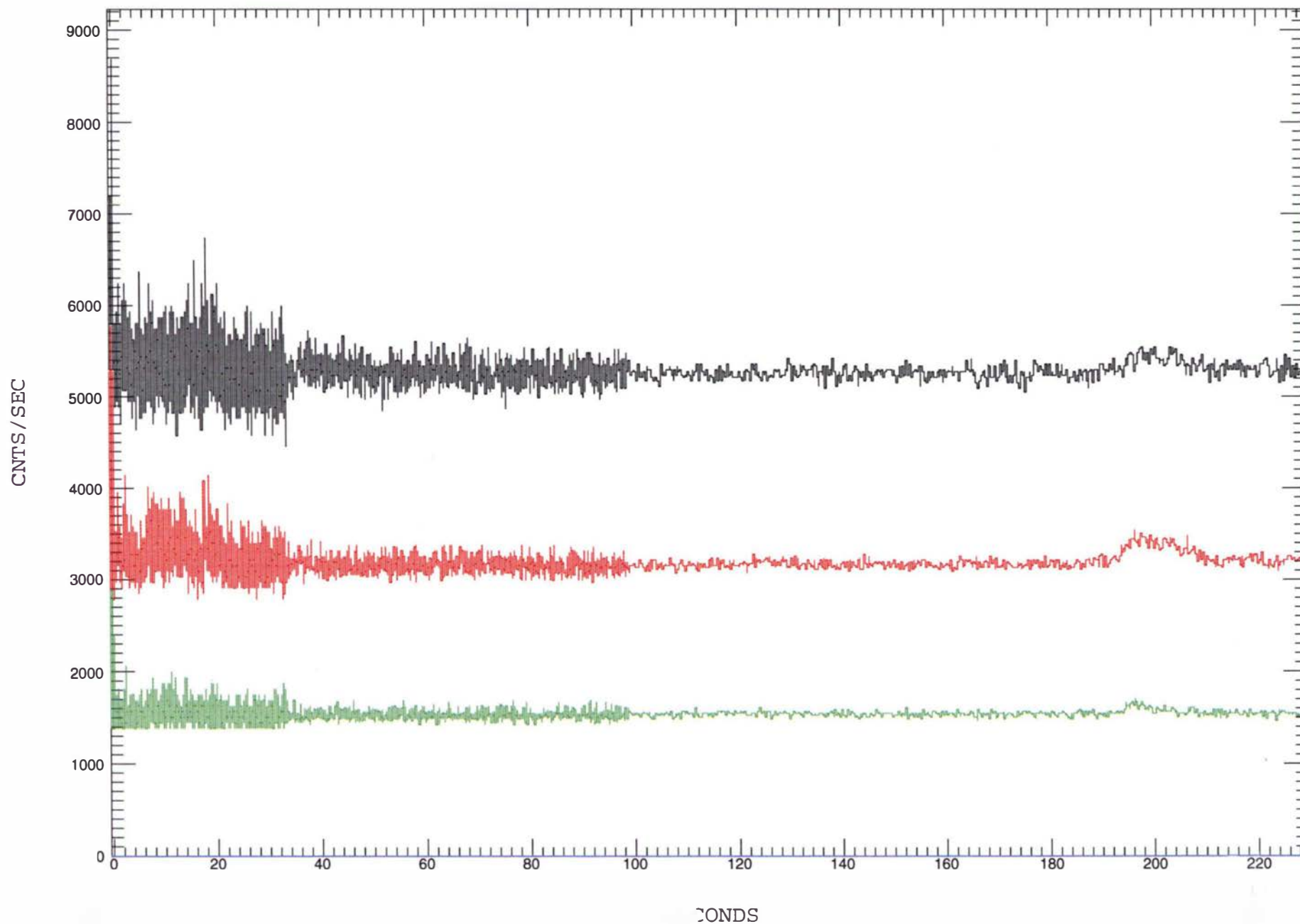
Chan 4 : [> 10 MeV]

Channel 1 + 4200

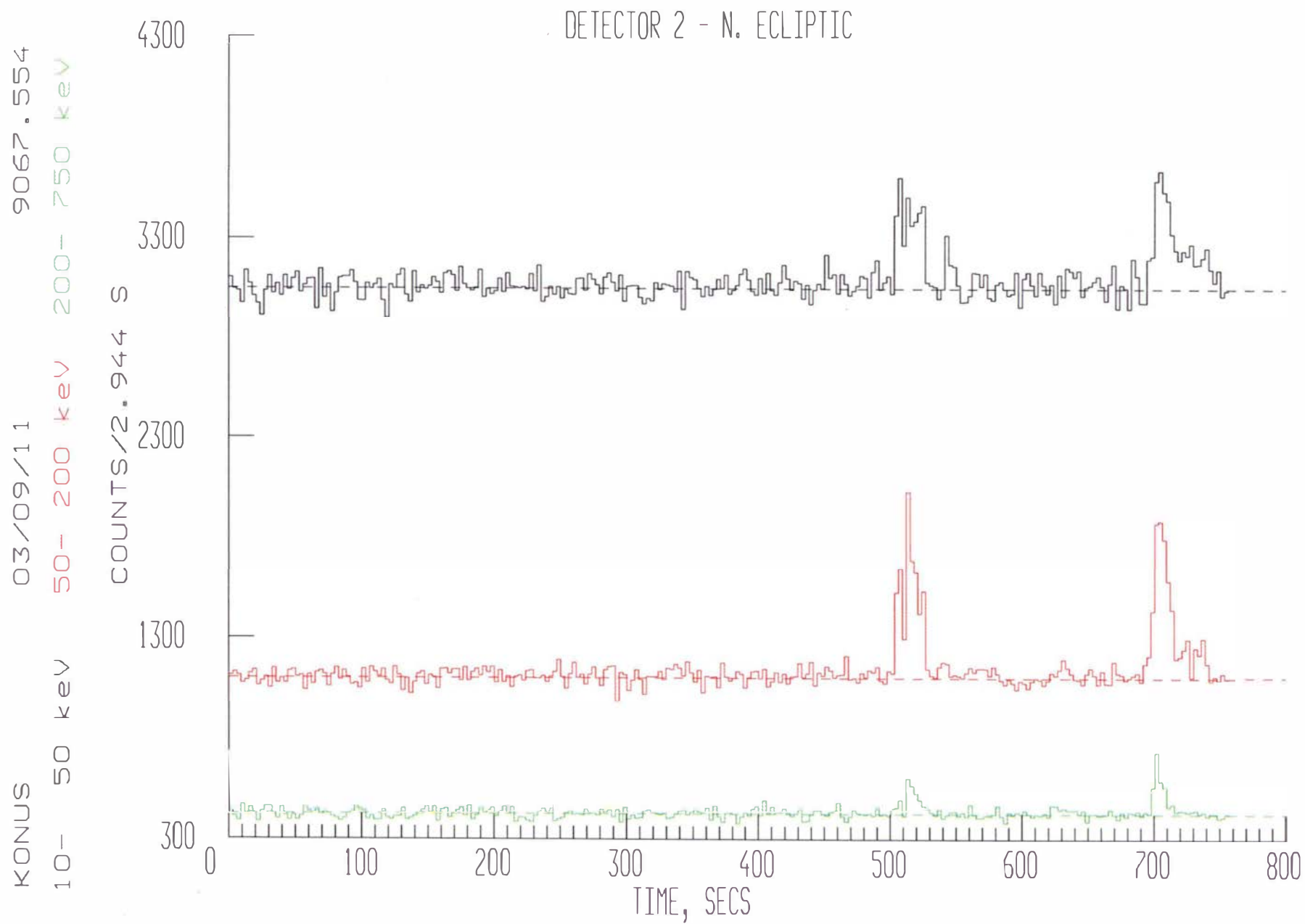
Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



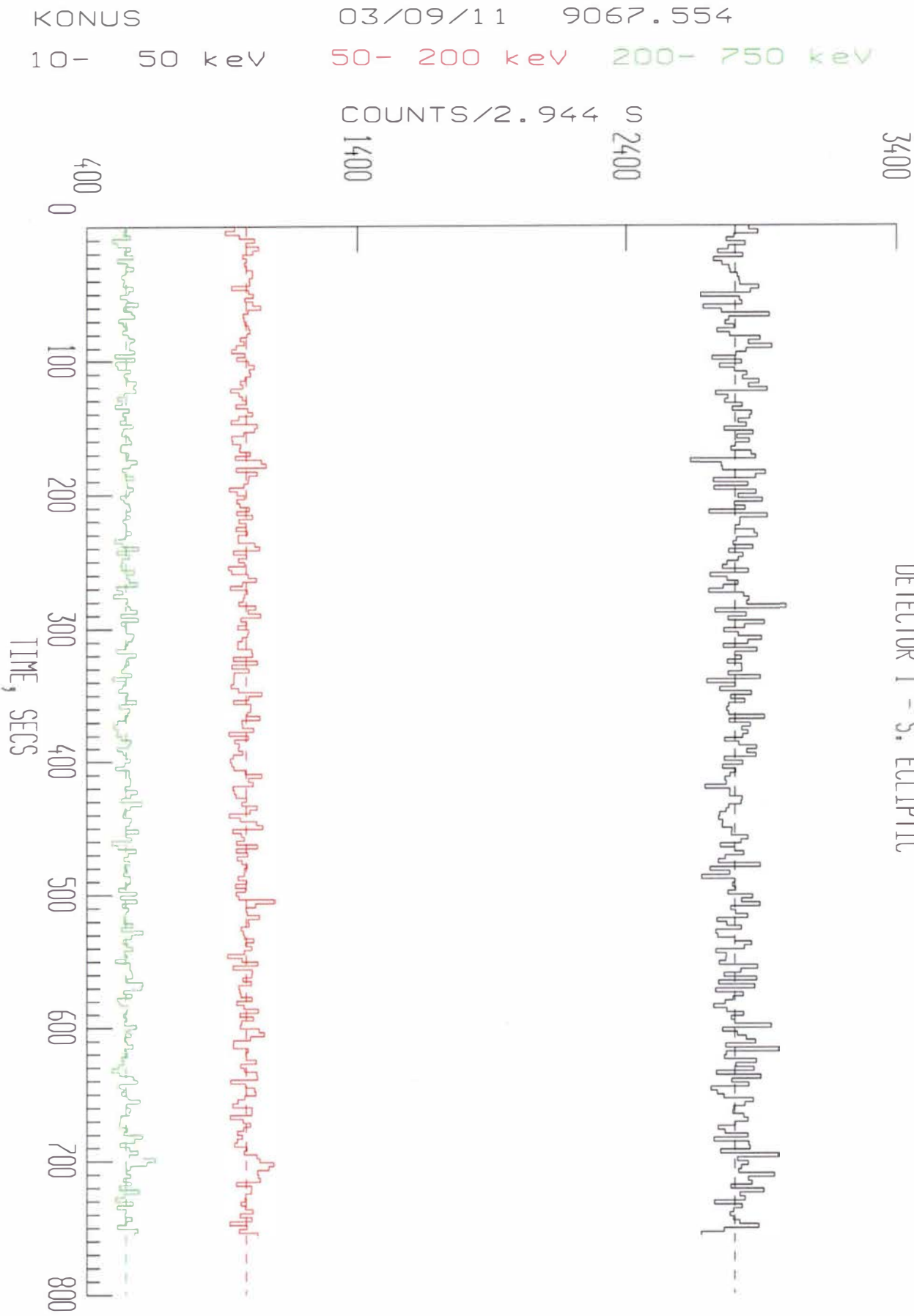
05/12/2011



B

05/12/2011

DETECTOR 1 - S. ECLIPSE



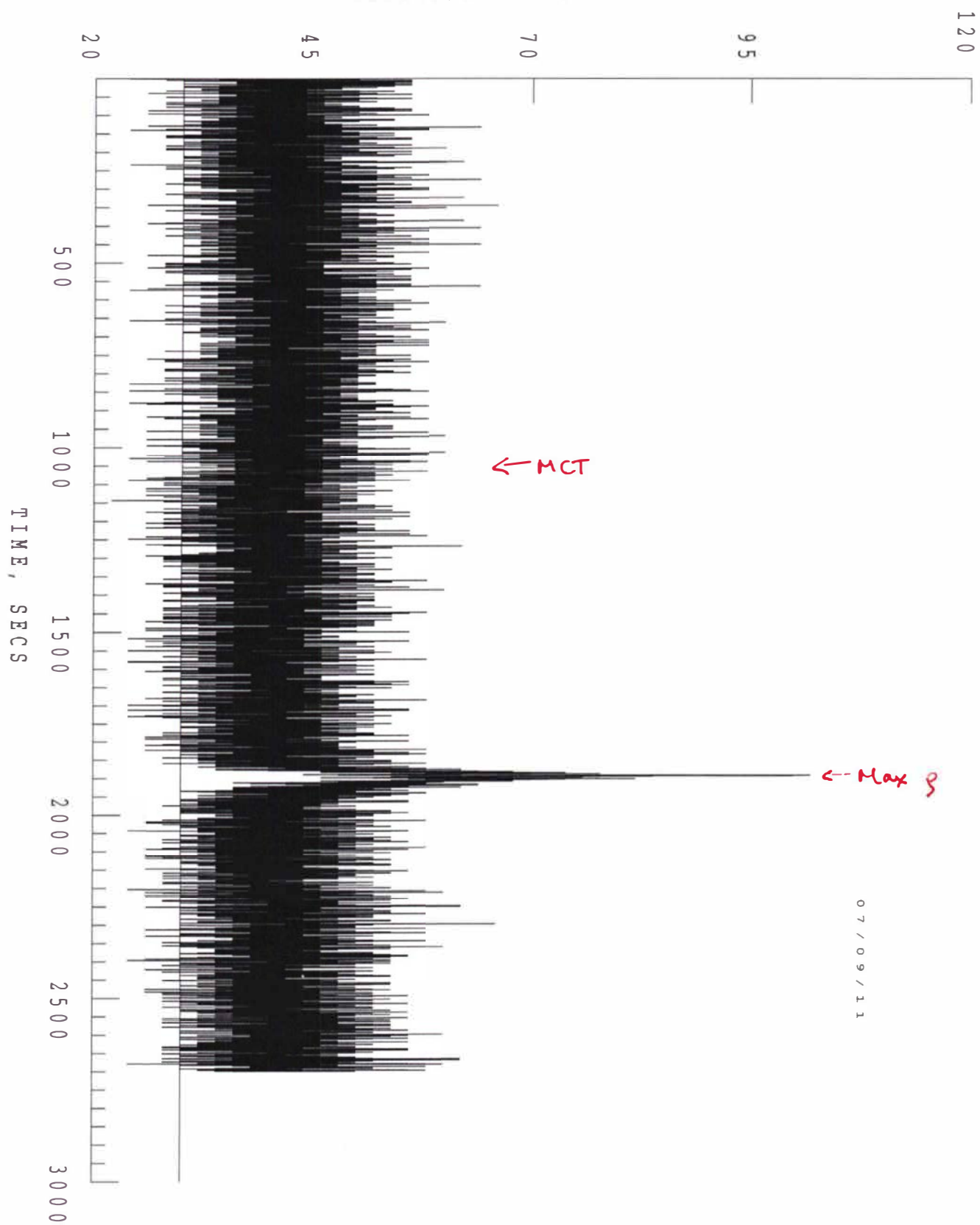
MS01

03/09/11

8206.981

50 - 3000 keV

COUNTS/0.250 S



MS01

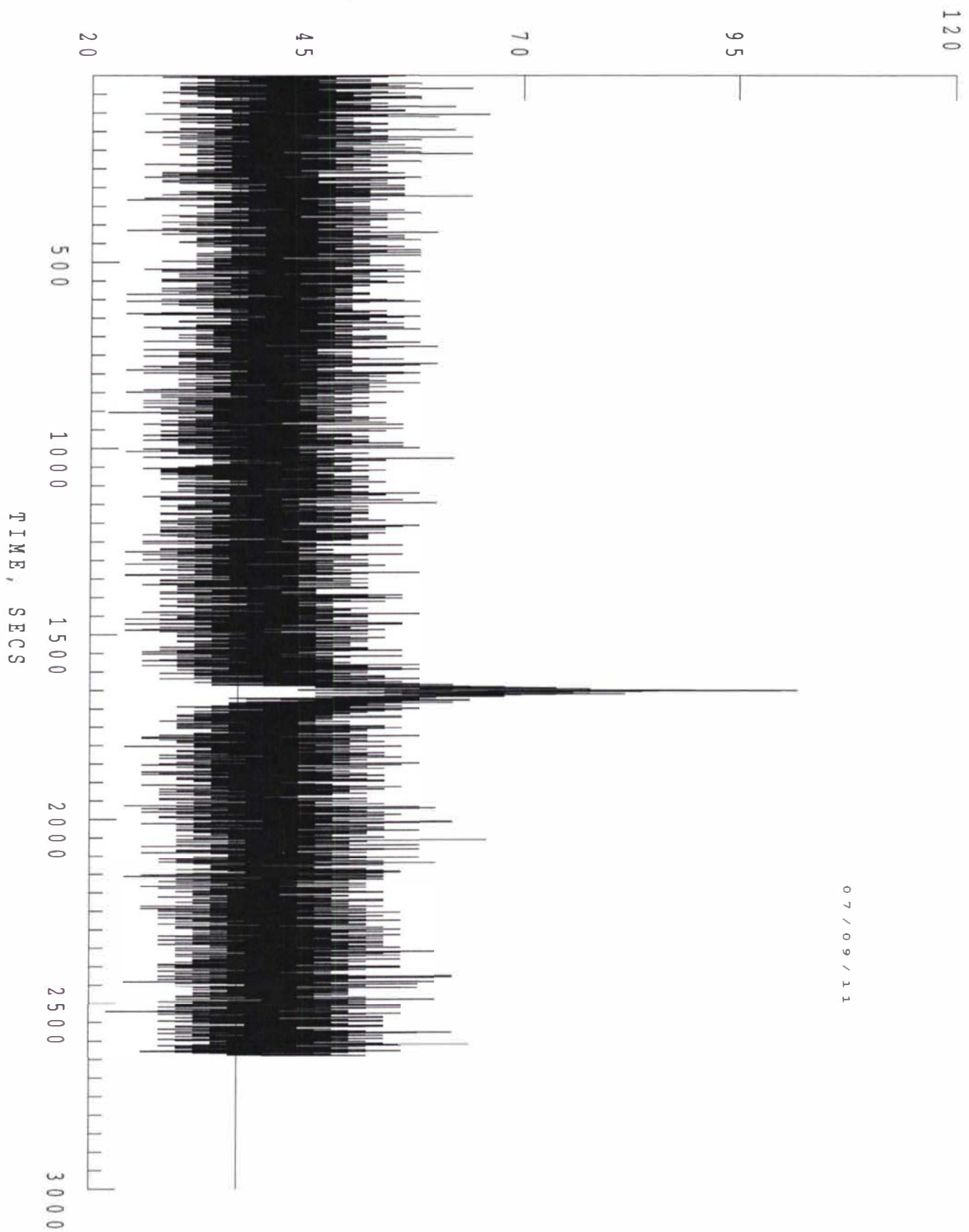
03/09/11

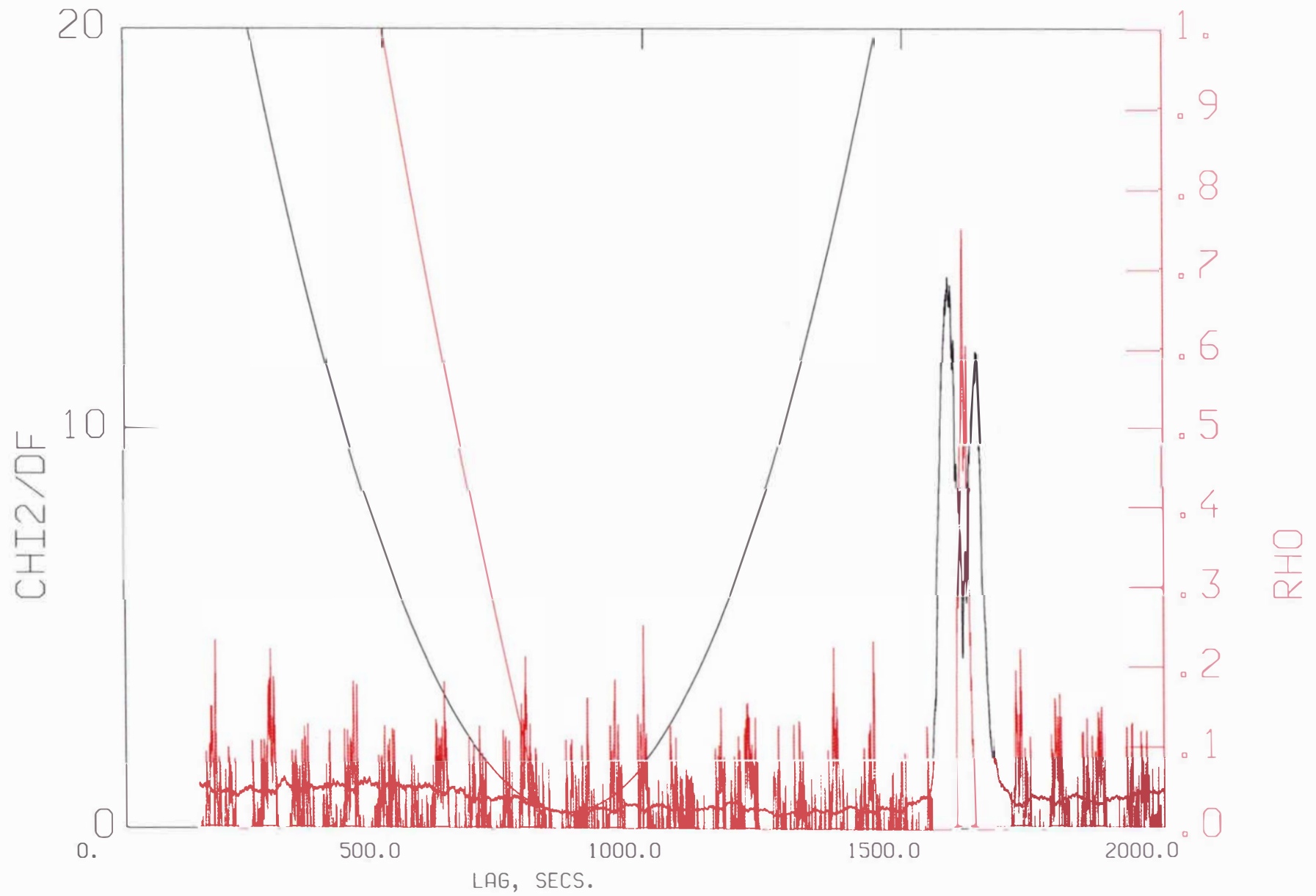
8446.979

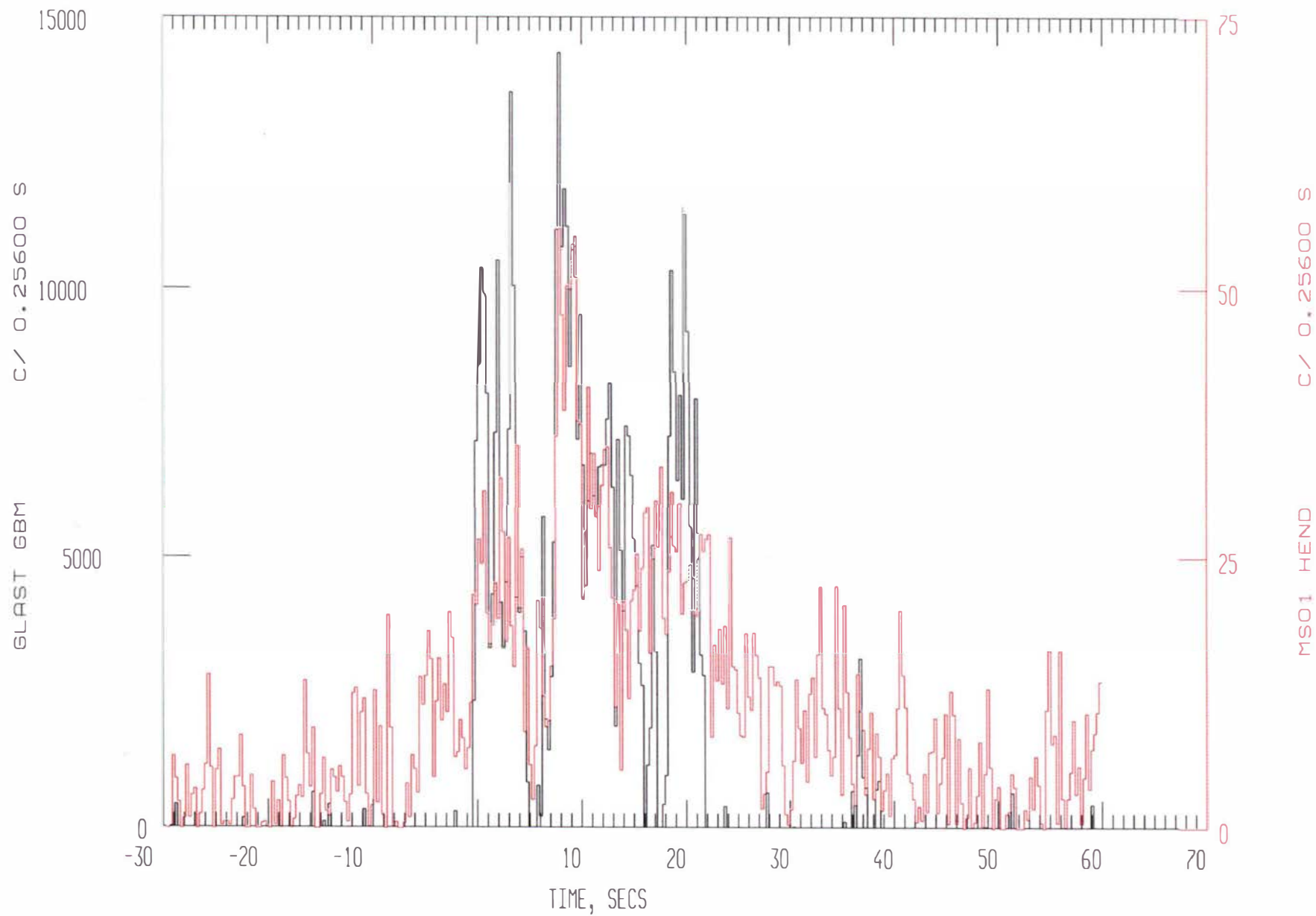
B

50 - 3000 keV

COUNTS/0.250 S



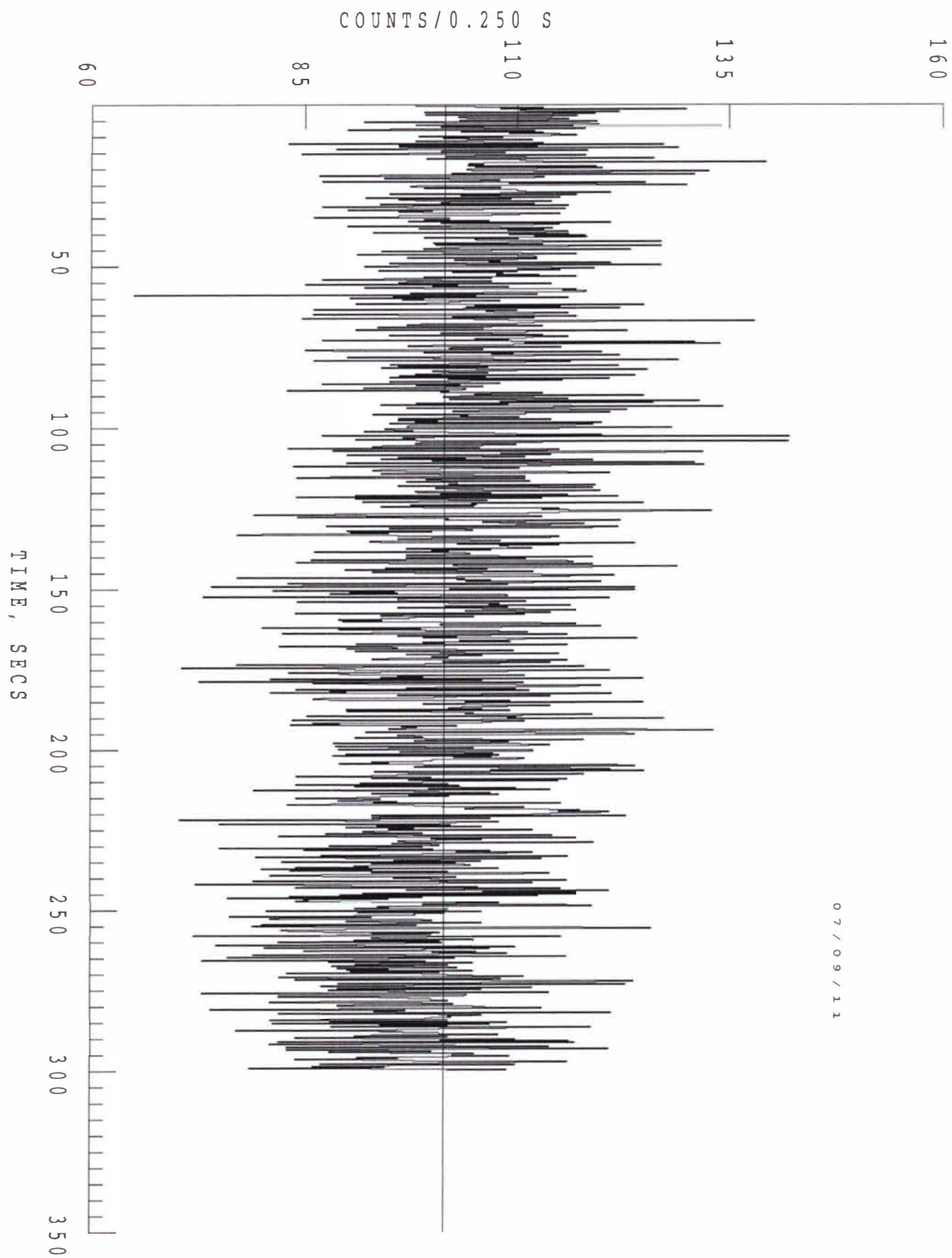




HESSI

03/09/11 9424.000 (GLAST_20110903_09574)

25- 150 keV



INTEGRAL

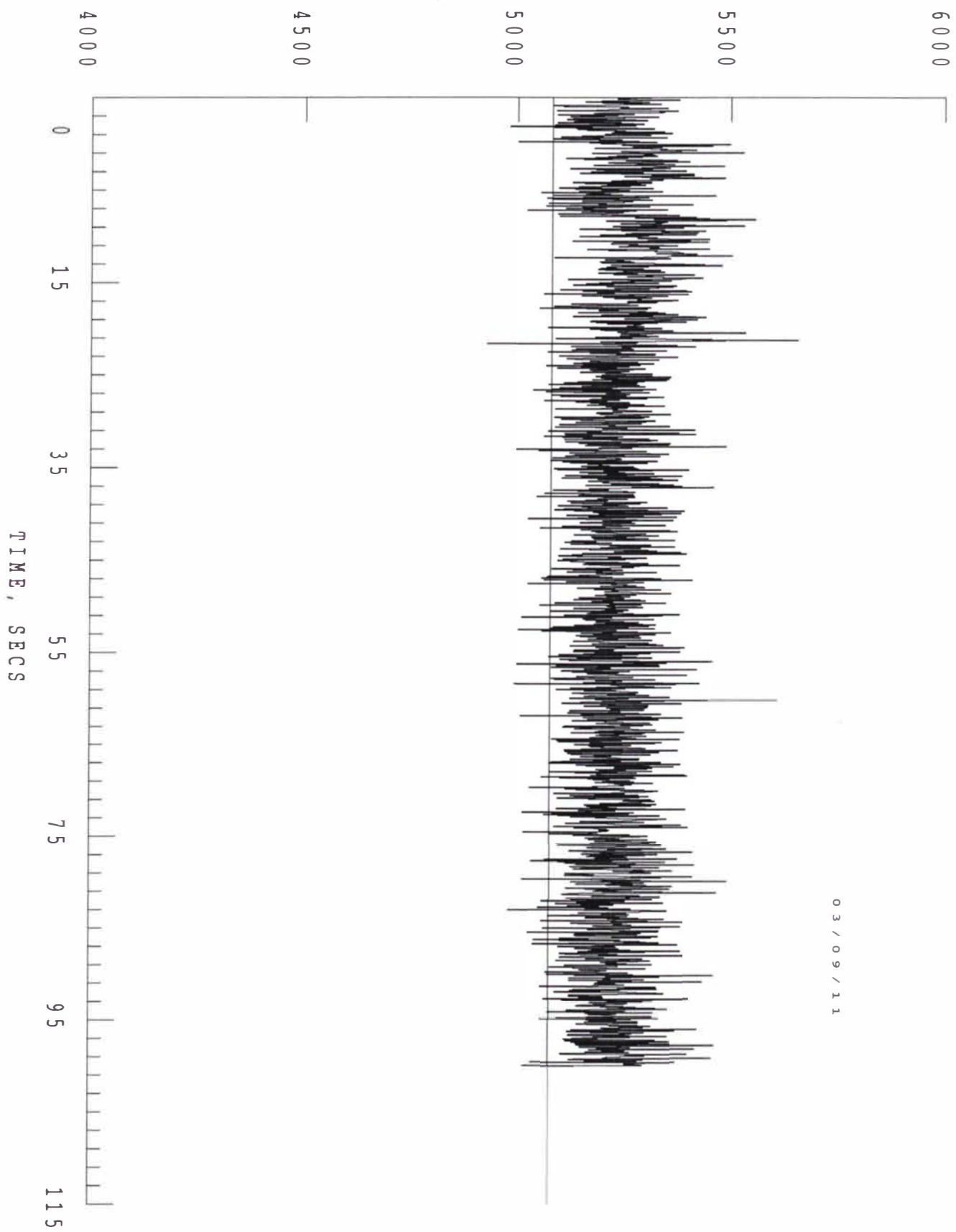
03/09/11

9573.721

B

100-10000 keV

COUNTS/0.050 S



Subject: [lpn] BAT lightcurve for trigger at 110903_0239

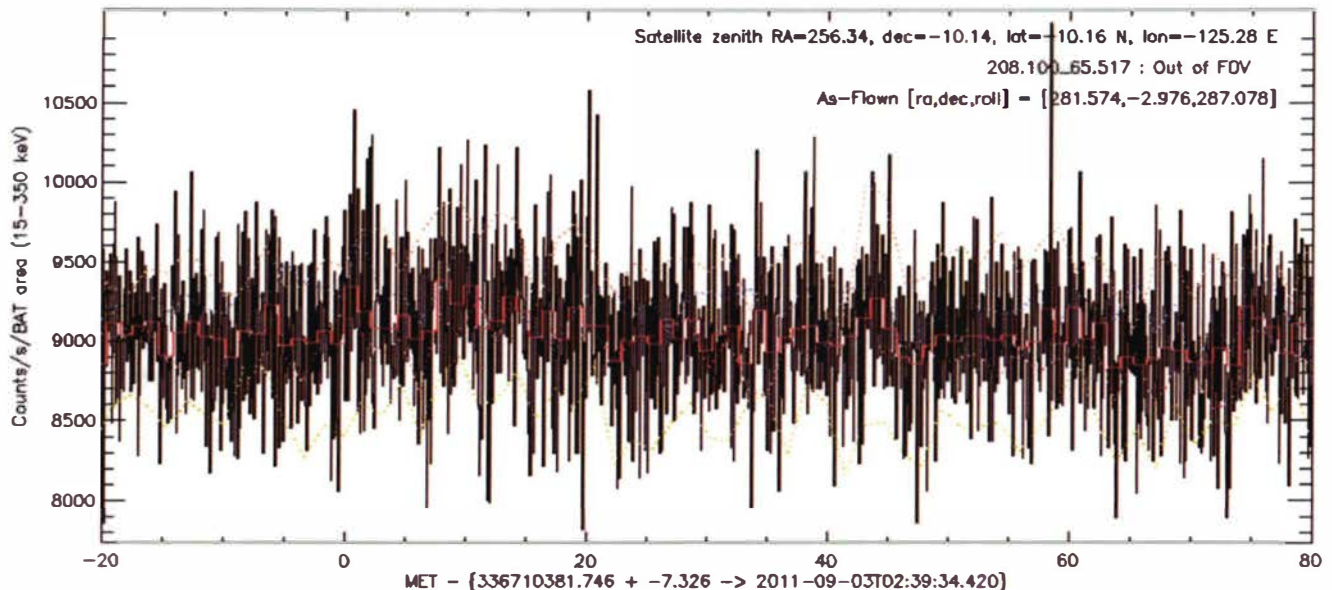
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 3 Sep 2011 08:54:43 -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/110903_0239.png



9574

```
% /usr/local/bin/swinfo -o 336710380.441
Time(MET + UTCF -> UT): 336710380.441 + -7.326 -> 2011-09-03T02:39:33.115
Swift Zenith(RA,dec): 256.28, -10.13
Swift Location(lon,lat,alt): -125.34 E, -10.14 N, 595 km
Obs Sequence Number: 00032031004
Obs Target Name: PSR J1846-0258
Obs Date and Times: 2011-09-03 02:31:54 - 02:48:49
Obs Pointing(ra,dec,roll): 281.574, -2.976, 287.08
```

```
% /usr/local/bin/swinfo -o 336710381.746 -s 195.610_52.790
Time(MET + UTCF -> UT): 336710381.746 + -7.326 -> 2011-09-03T02:39:34.420
Swift Zenith(RA,dec): 256.34, -10.14
Swift Location(lon,lat,alt): -125.28 E, -10.16 N, 595 km
Obs Sequence Number: 00032031004
Obs Target Name: PSR J1846-0258
Obs Date and Times: 2011-09-03 02:31:54 - 02:48:49
Obs Pointing(ra,dec,roll): 281.574, -2.976, 287.08
195.610_52.790_imageloc (boresight_dist, angle): (90, -54)
195.610_52.790_exposure (cm² cos adjusted): 0
195.610_52.790_altitude: 33 (up)
```

```
% /usr/local/bin/swinfo -o 336710381.746 -s 195.700_63.250
Time(MET + UTCF -> UT): 336710381.746 + -7.326 -> 2011-09-03T02:39:34.420
Swift Zenith(RA,dec): 256.34, -10.14
Swift Location(lon,lat,alt): -125.28 E, -10.16 N, 595 km
Obs Sequence Number: 00032031004
Obs Target Name: PSR J1846-0258
Obs Date and Times: 2011-09-03 02:31:54 - 02:48:49
Obs Pointing(ra,dec,roll): 281.574, -2.976, 287.08
195.700_63.250_imageloc (boresight_dist, angle): (91, -44)
195.700_63.250_exposure (cm² cos adjusted): 0
195.700_63.250_altitude: 27 (up)
```

```
% /usr/local/bin/swinfo -o 336710381.746 -s 199.070_52.450
Time(MET + UTCF -> UT): 336710381.746 + -7.326 -> 2011-09-03T02:39:34.420
Swift Zenith(RA,dec): 256.34, -10.14
Swift Location(lon,lat,alt): -125.28 E, -10.16 N, 595 km
Obs Sequence Number: 00032031004
Obs Target Name: PSR J1846-0258
```


[Ipn] BAT lightcurve for trigger at 110903_0239

```
Obs Date and Times:      2011-09-03  02:31:54 - 02:48:49
Obs Pointing(ra,dec,roll): 281.574, -2.976, 287.08
199.070_52.450_imageloc (boresight_dist, angle): (88, -54)
199.070_52.450_exposure (cm² cos adjusted): 0
199.070_52.450_altitude: 34 (up)

% /usr/local/bin/swinfo -o 336710381.746 -s 200.140_55.080
Time(MET + UTCF -> UT):  336710381.746 + -7.326 -> 2011-09-03T02:39:34.420
Swift Zenith(RA,dec):    256.34, -10.14
Swift Location(lon,lat,alt): -125.28 E, -10.16 N, 595 km
Obs Sequence Number:     00032031004
Obs Target Name:         PSR J1846-0258
Obs Date and Times:      2011-09-03  02:31:54 - 02:48:49
Obs Pointing(ra,dec,roll): 281.574, -2.976, 287.08
200.140_55.080_imageloc (boresight_dist, angle): (88, -52)
200.140_55.080_exposure (cm² cos adjusted): 0
200.140_55.080_altitude: 34 (up)

% /usr/local/bin/swinfo -o 336710381.746 -s 208.100_65.517
Time(MET + UTCF -> UT):  336710381.746 + -7.326 -> 2011-09-03T02:39:34.420
Swift Zenith(RA,dec):    256.34, -10.14
Swift Location(lon,lat,alt): -125.28 E, -10.16 N, 595 km
Obs Sequence Number:     00032031004
Obs Target Name:         PSR J1846-0258
Obs Date and Times:      2011-09-03  02:31:54 - 02:48:49
Obs Pointing(ra,dec,roll): 281.574, -2.976, 287.08
208.100_65.517_imageloc (boresight_dist, angle): (86, -41)
208.100_65.517_exposure (cm² cos adjusted): 0
208.100_65.517_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

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

/tmp/110903_0239_bat64ms_ipn

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

/tmp/110903_0239.png

/tmp/110903_0239.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

B

08/08/11

MESSENGER

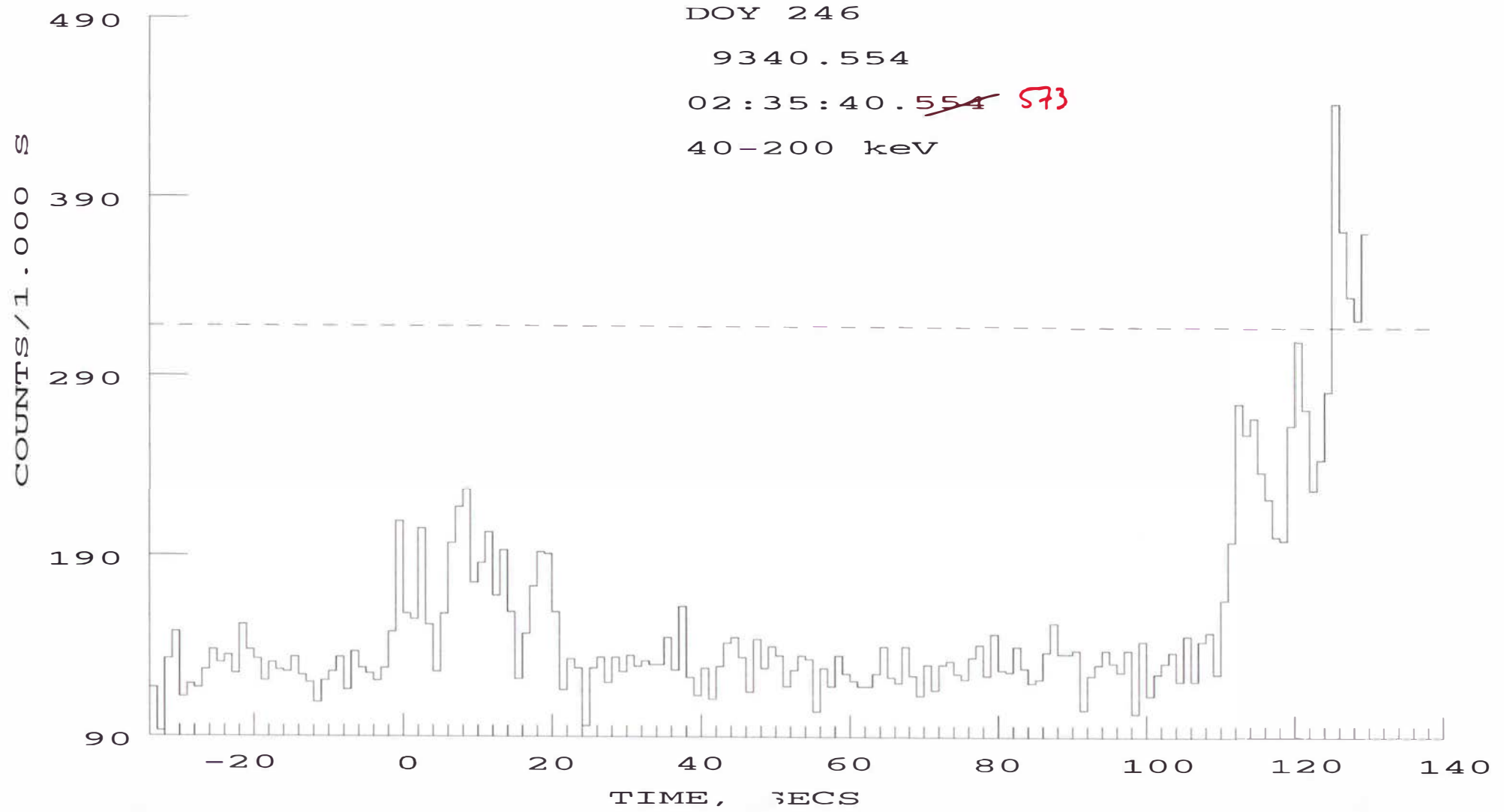
03/09/11

DOY 246

9340.554

02:35:40.554 ~~554~~ 573

40-200 keV



3

08/08/11

MESSENGER

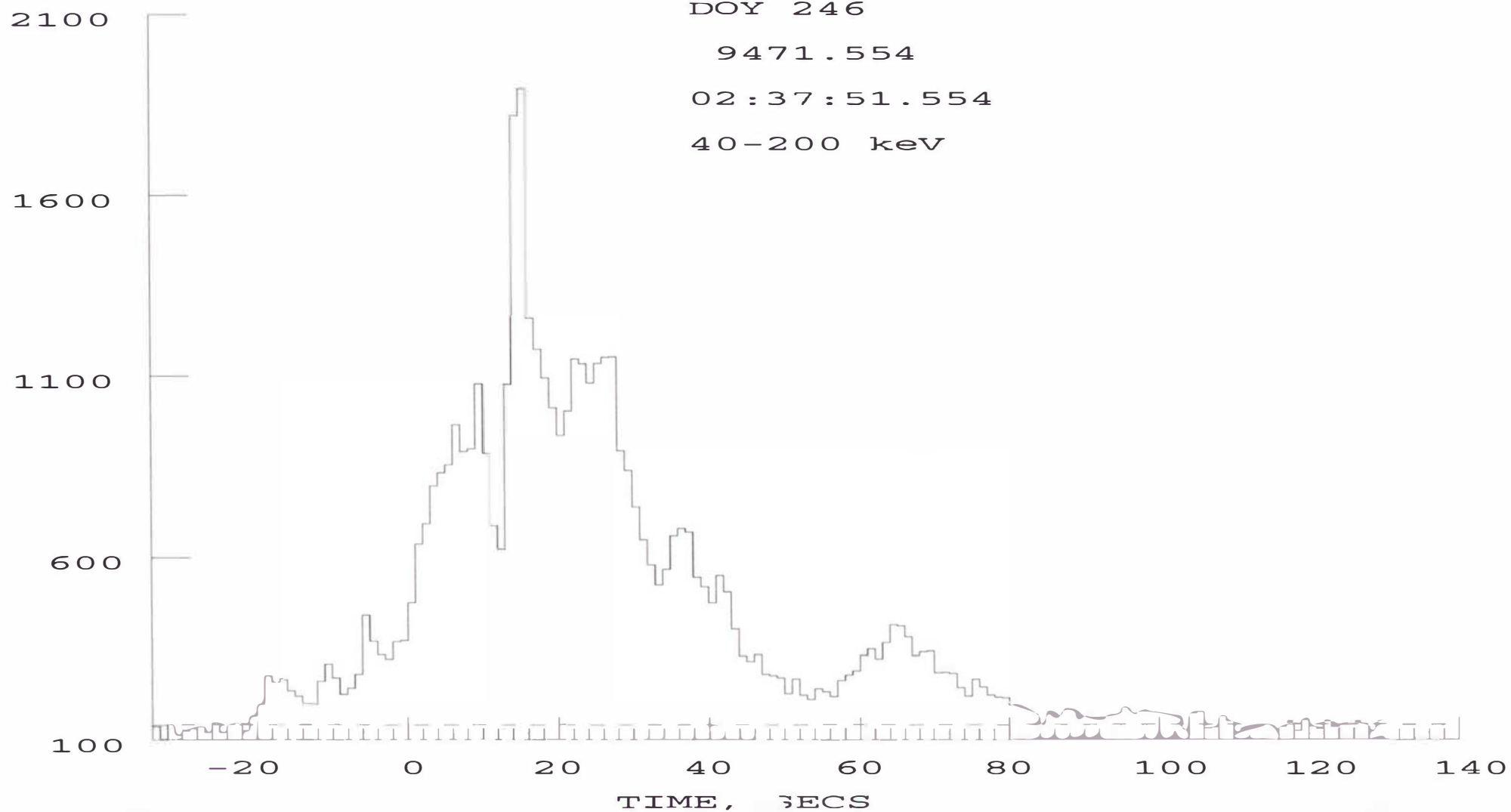
03/09/11

DOY 246

9471.554

02:37:51.554

40-200 keV



GLAST

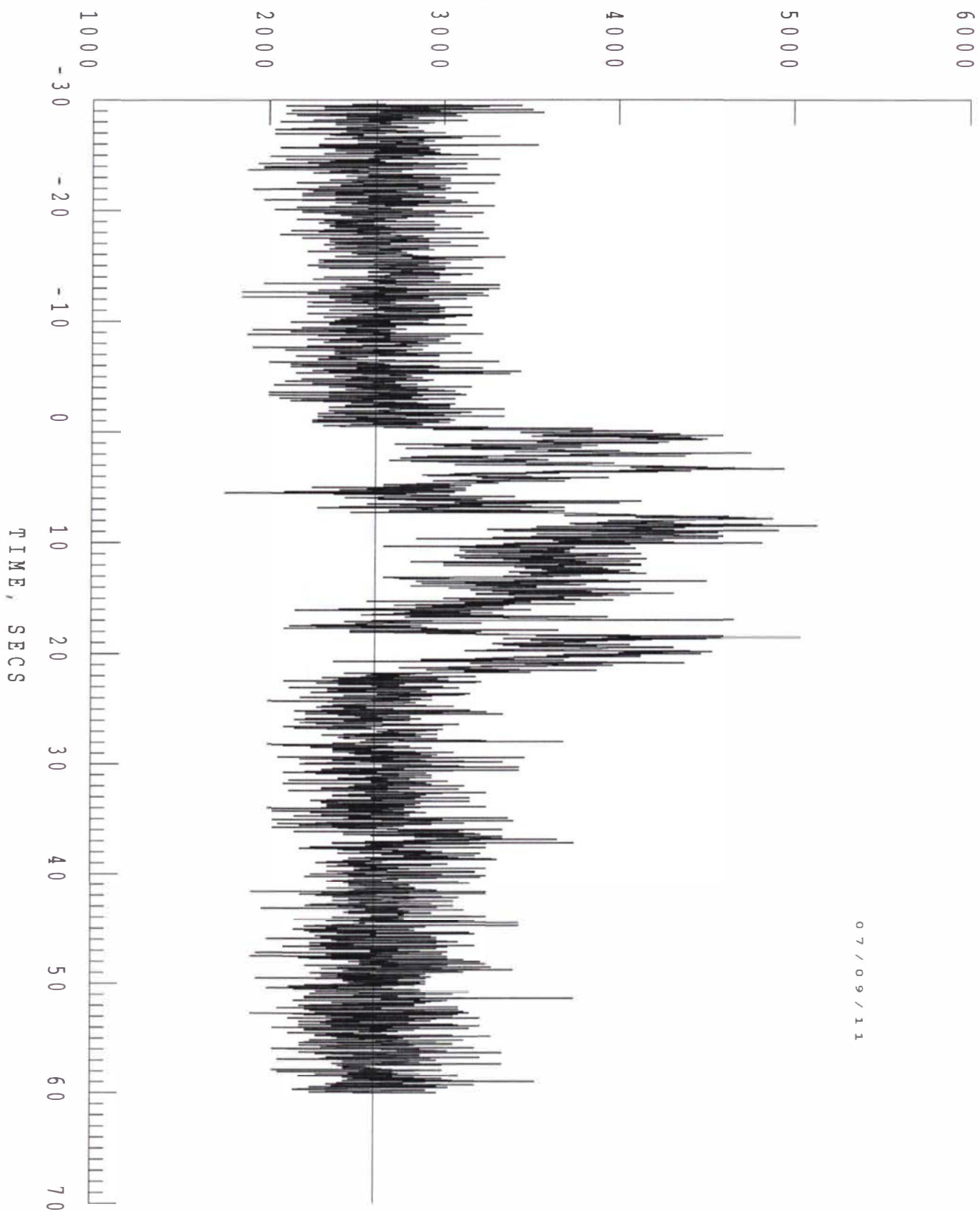
03/09/11

9574.422

B

26- 293 keV

COUNTS/0.032 S



INTEGRAL

03/09/11

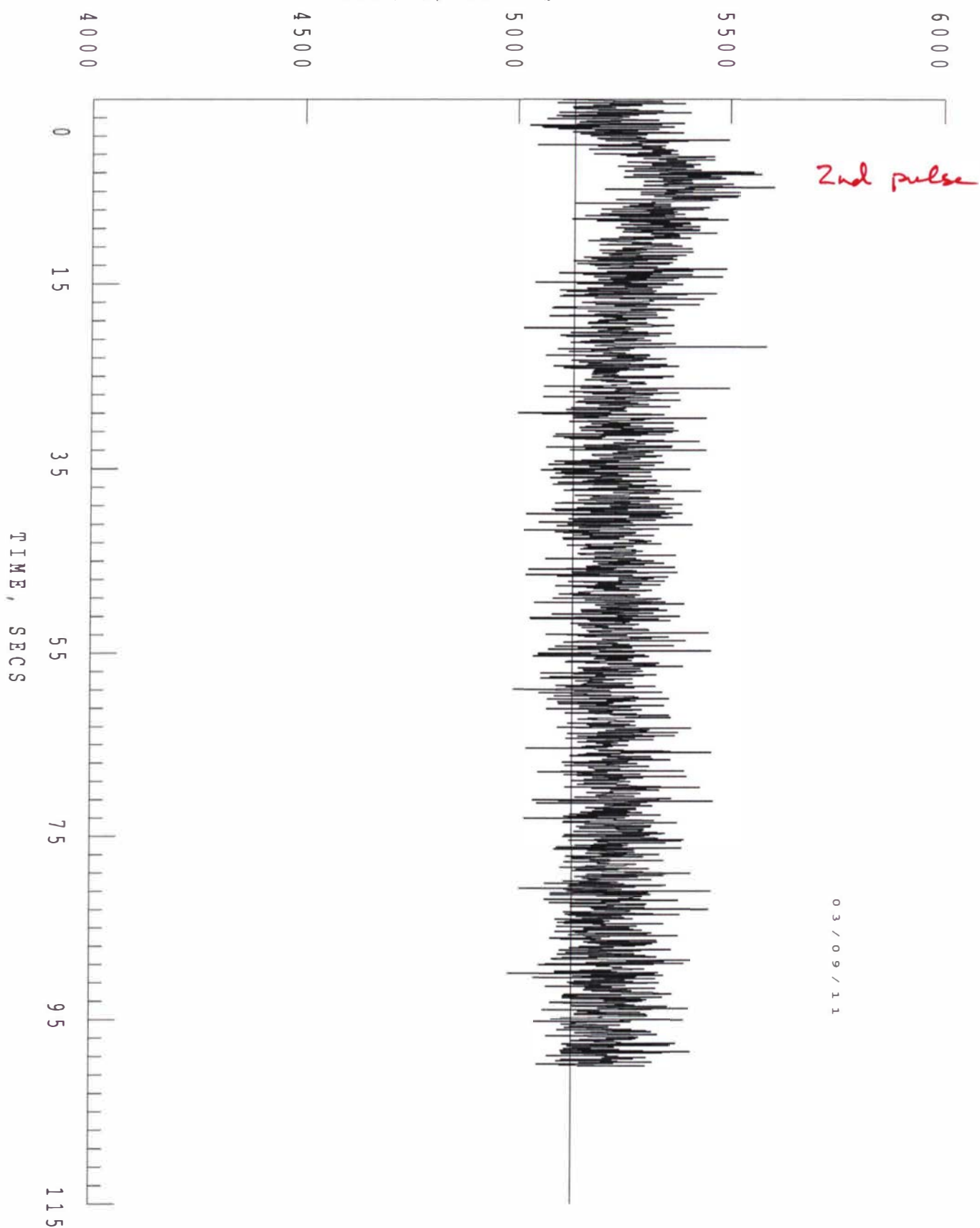
9767.821

172s after Bevent. ~~B~~ C

100-10000 keV

02:42:47 continuation

COUNTS/0.050 S



C

From williams@gammaburst.ssl.berkeley.edu Sat Sep 3 04:01:25 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Sat, 3 Sep 2011 04:00:45 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_INTEGRAL_20110903_09767
X-Ucb-Scan-Signature: 662d89a8e042c44a4d4fc59a3383ddaa01438f7f
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-Sep-2011 04:01:42.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

08/08/11

MESSENGER

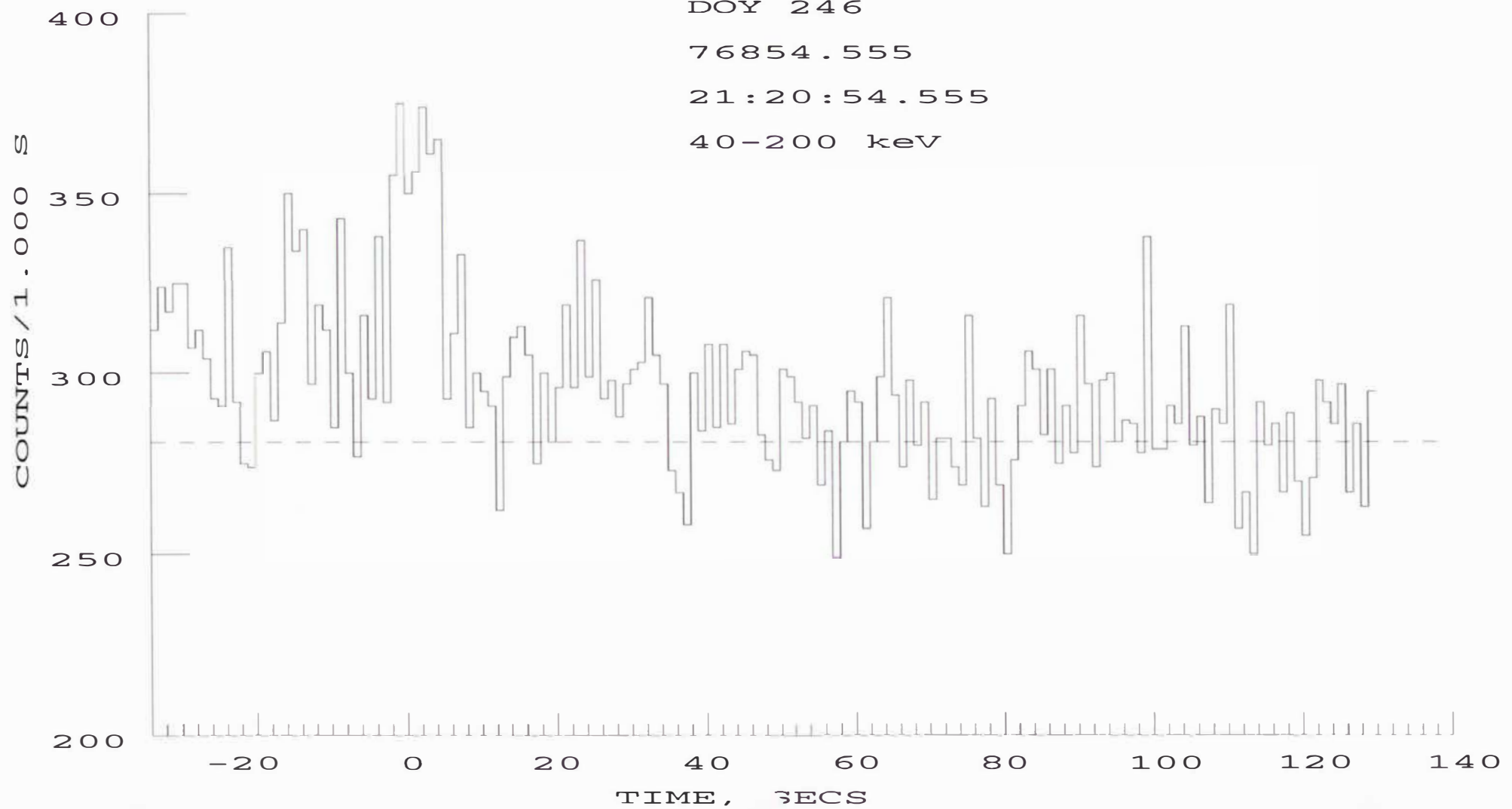
03/09/11

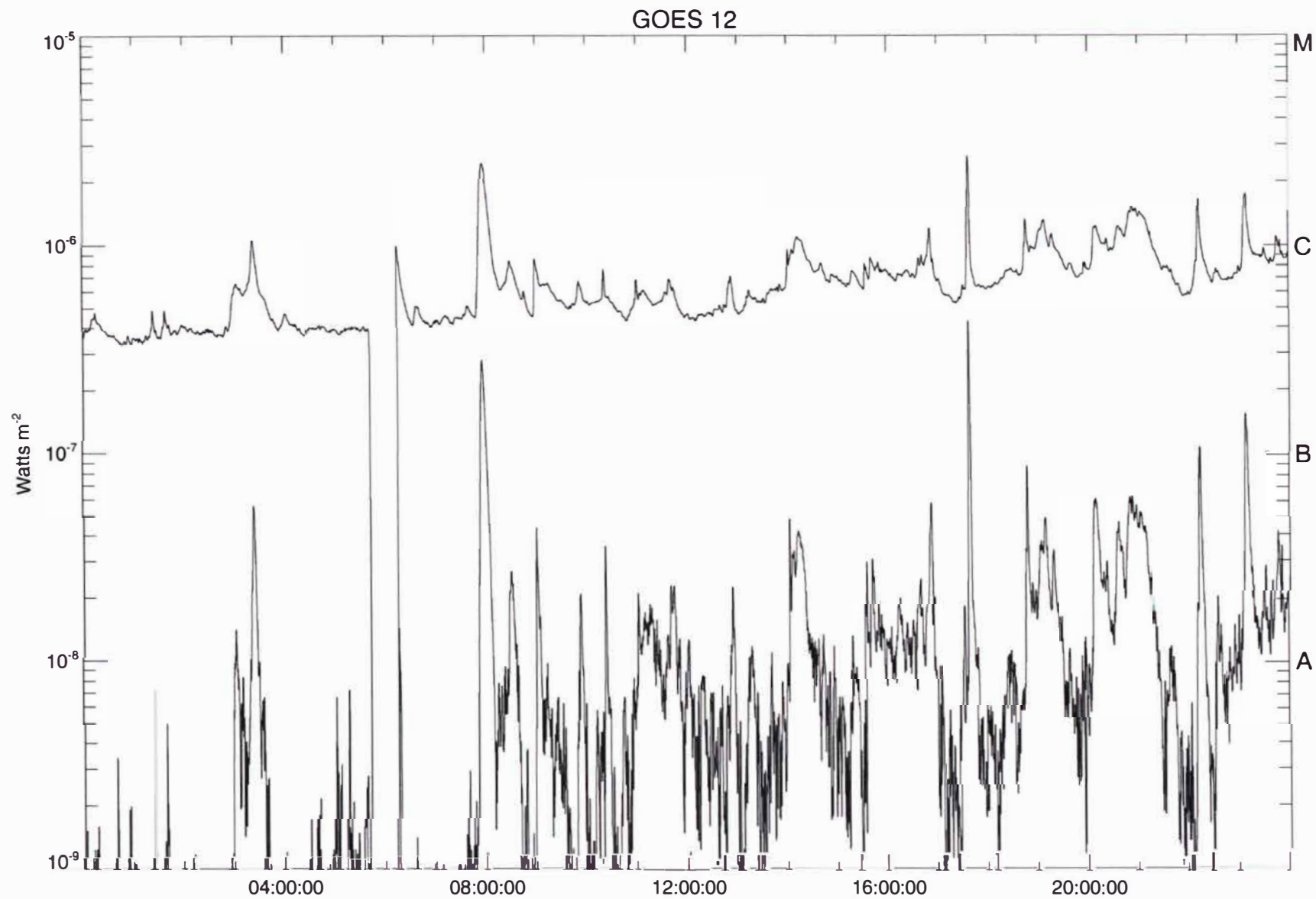
DOY 246

76854.555

21:20:54.555

40-200 keV





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

Plot created: 11/09/06, 0836

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

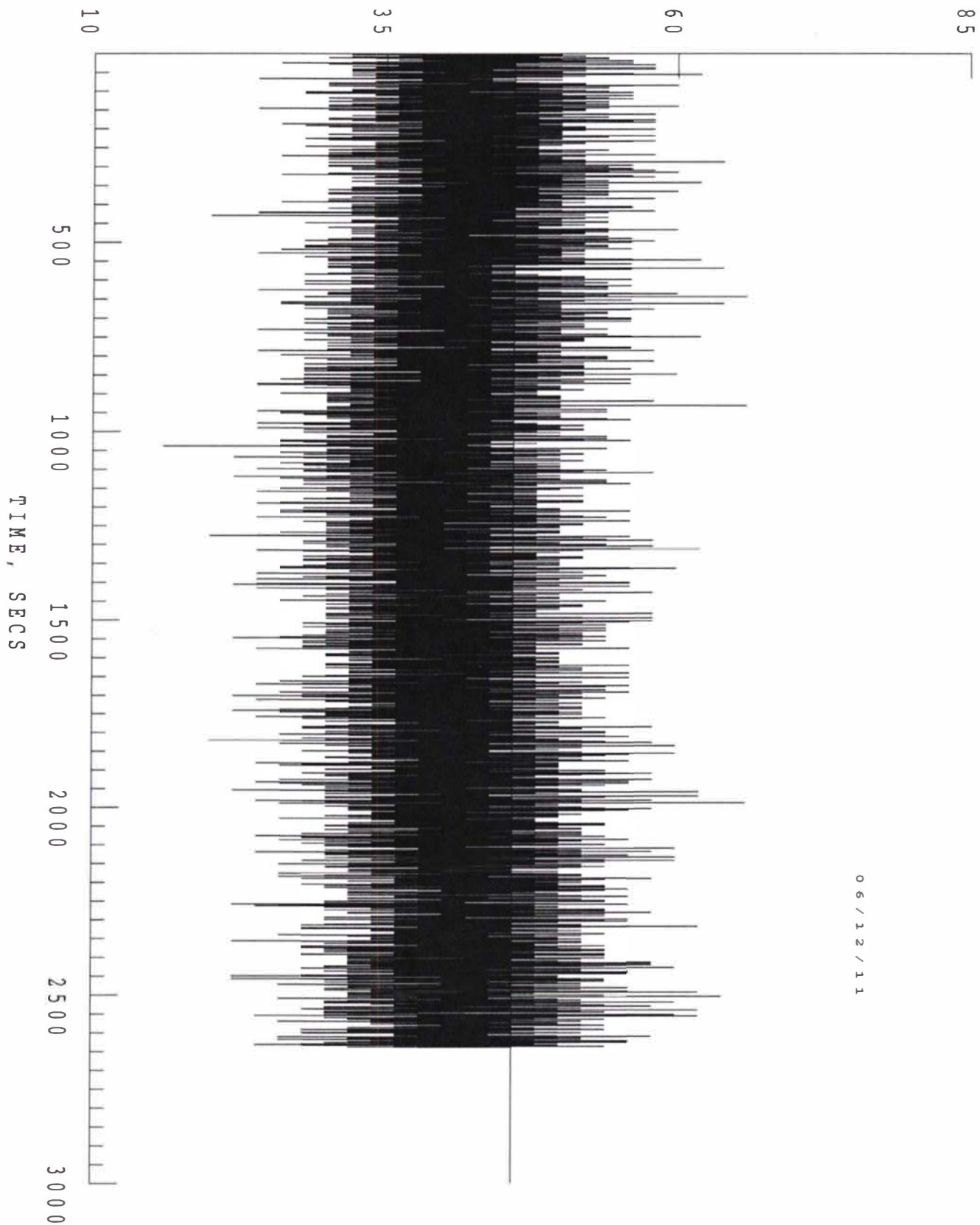
MS01

04/09/11

225.512

50 - 3000 keV

COUNTS/0.250 S



06/12/11

From williams@gammaburst.ssl.berkeley.edu Tue Dec 6 13:32:12 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 6 Dec 2011 13:27:10 -0800 (PST)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHessi_data_for_SUZAKU_20110904_01588
X-Ucb-Scan-Signature: de0f4a2b6288f82b19254c223f5a32b71735f55d
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -1.201'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 6-Dec-2011 13:31:03.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.200000
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

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)?
- ☒ 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?

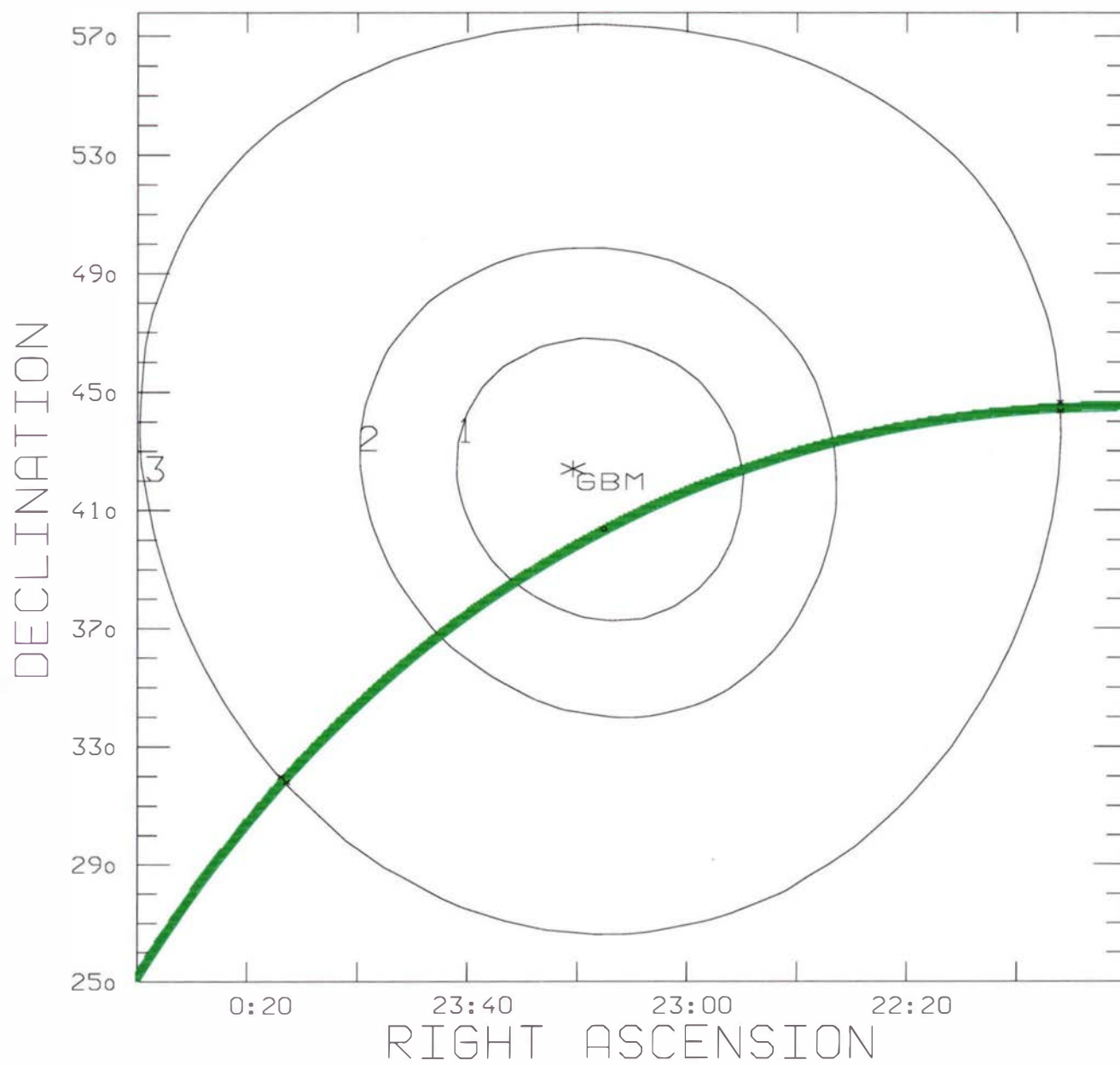
6. For 3 or More Spacecraft events

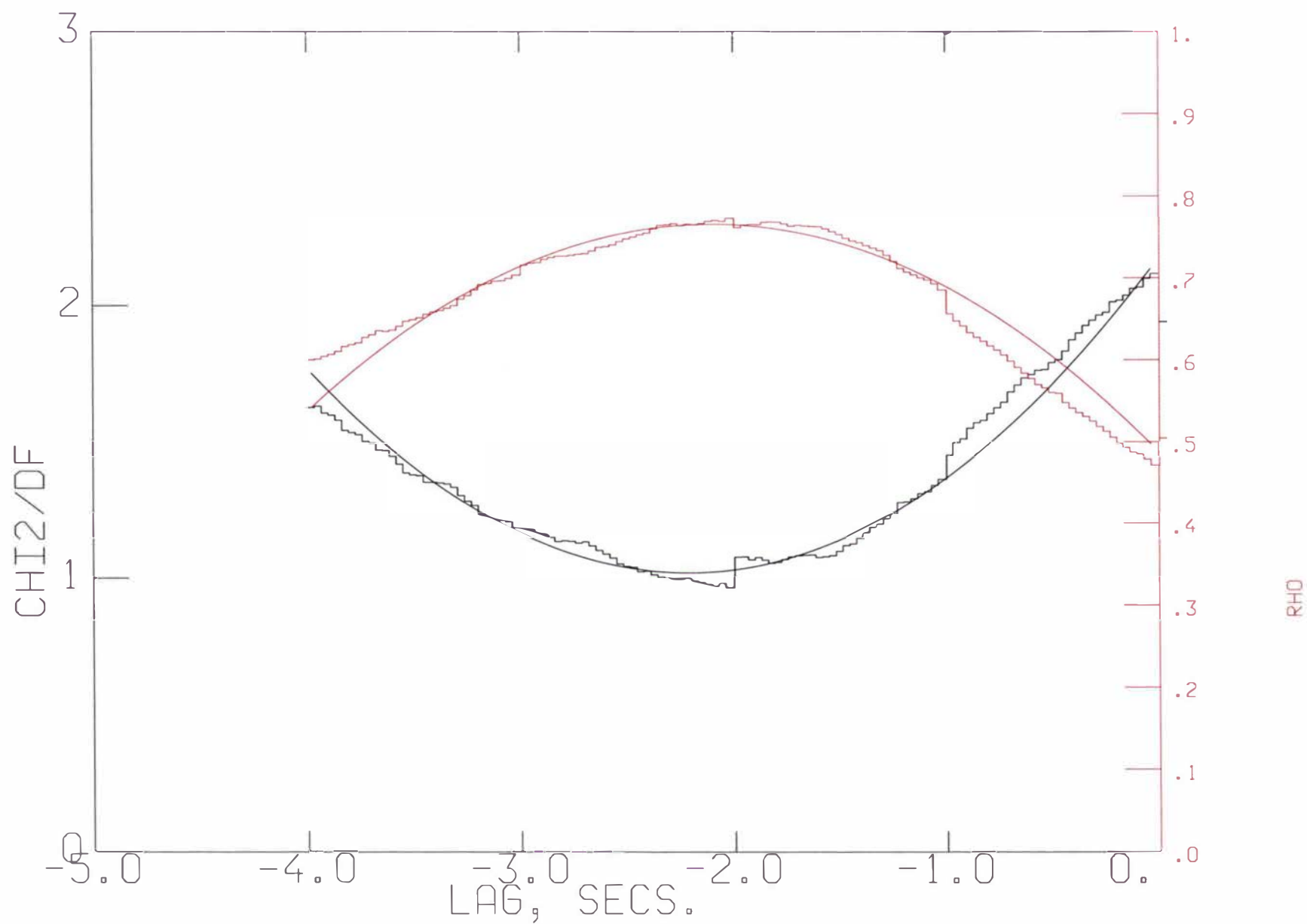
- ☐ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

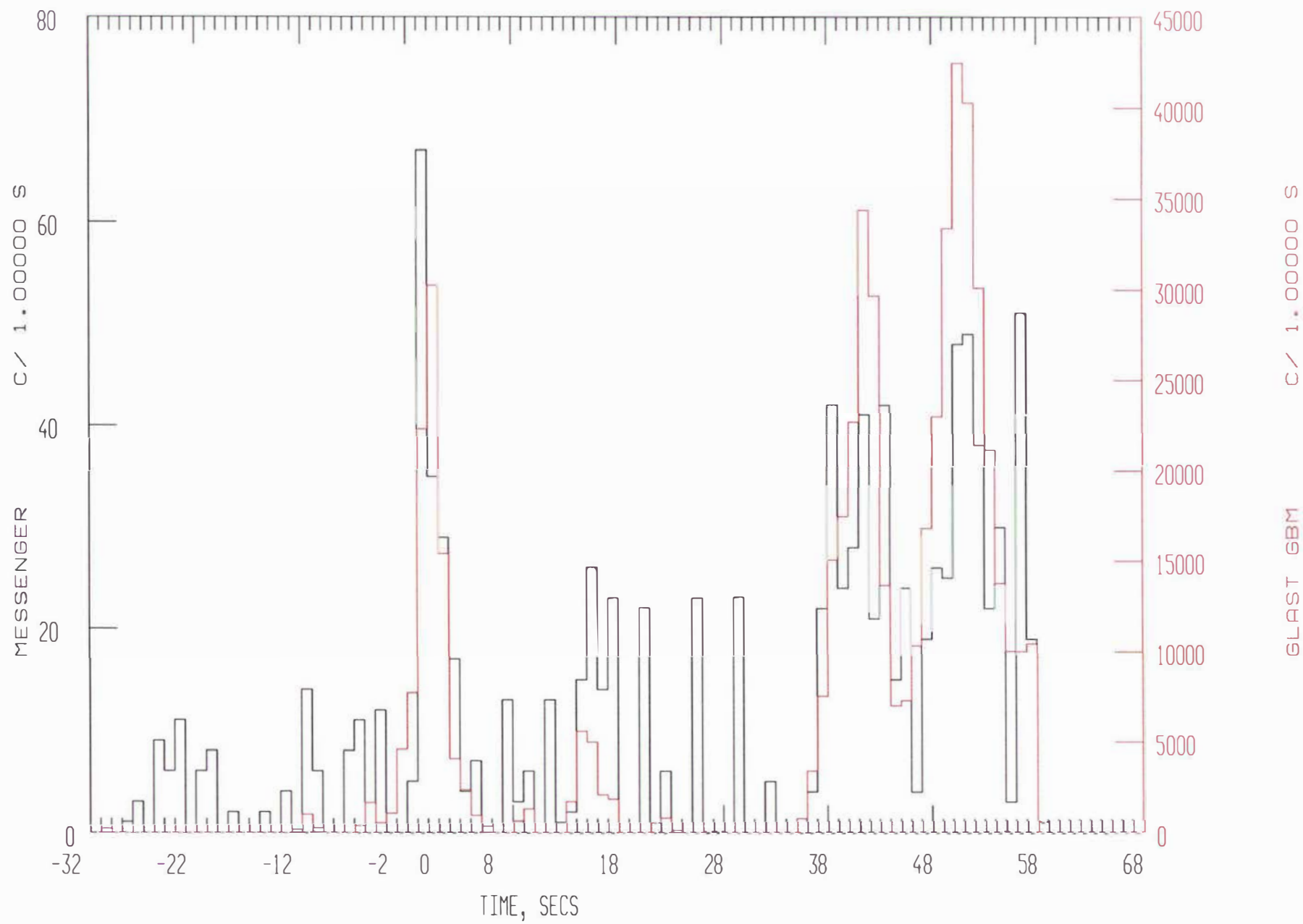
7. For INTEGRAL events

- ☐ 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?







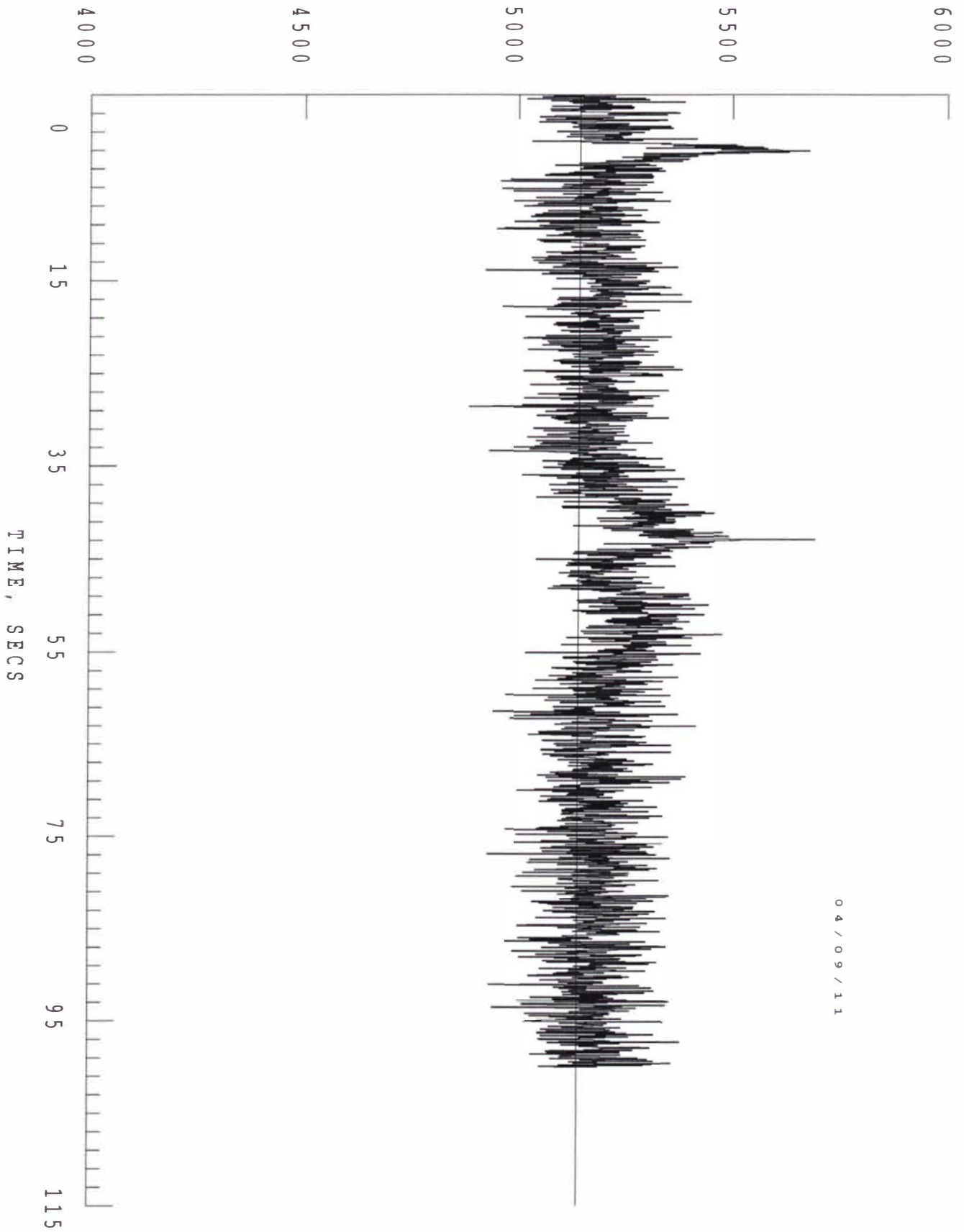
INTEGRAL

04/09/11

10695.123

100-10000 keV

COUNTS/0.050 S



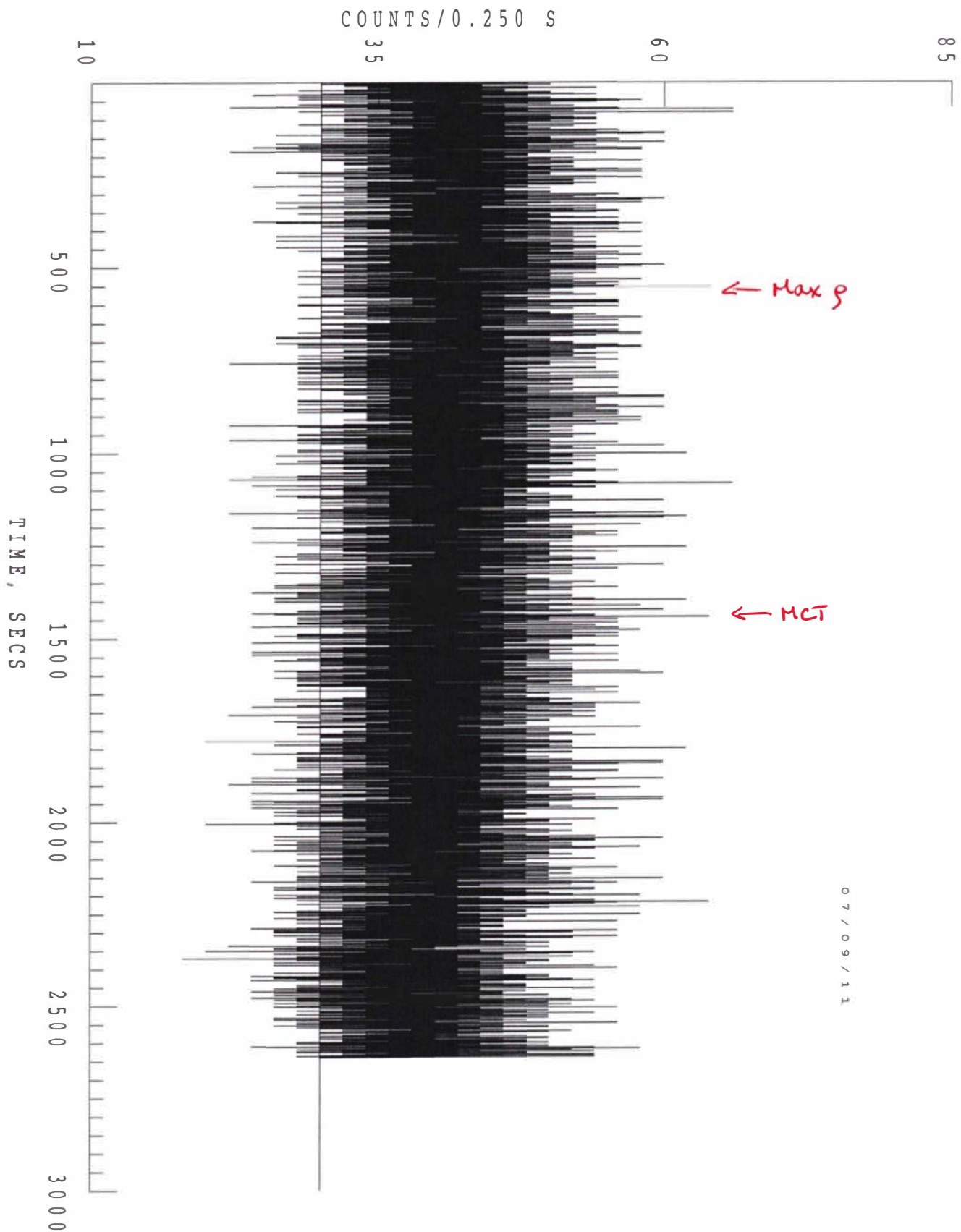
MS01

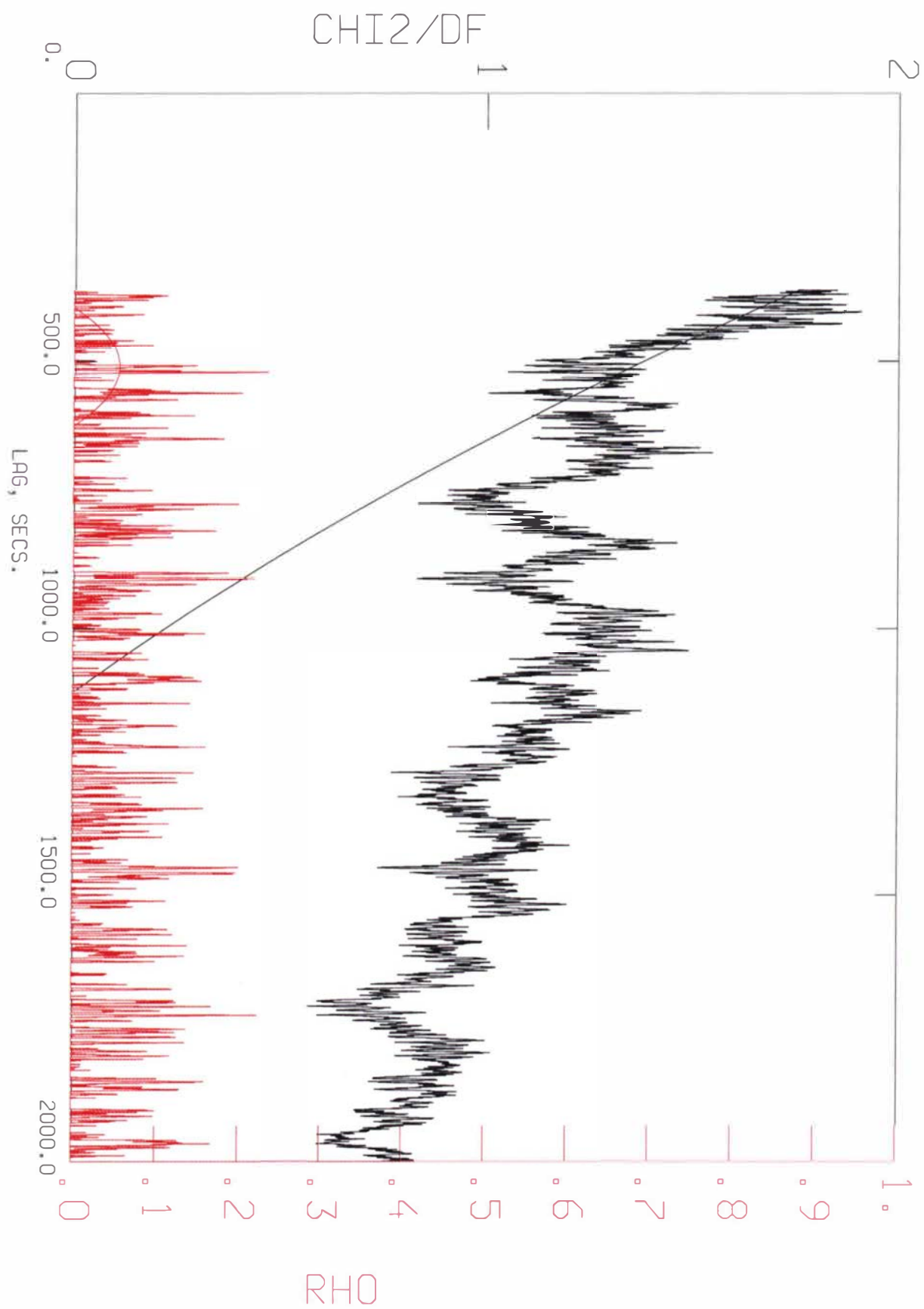
04/09/11

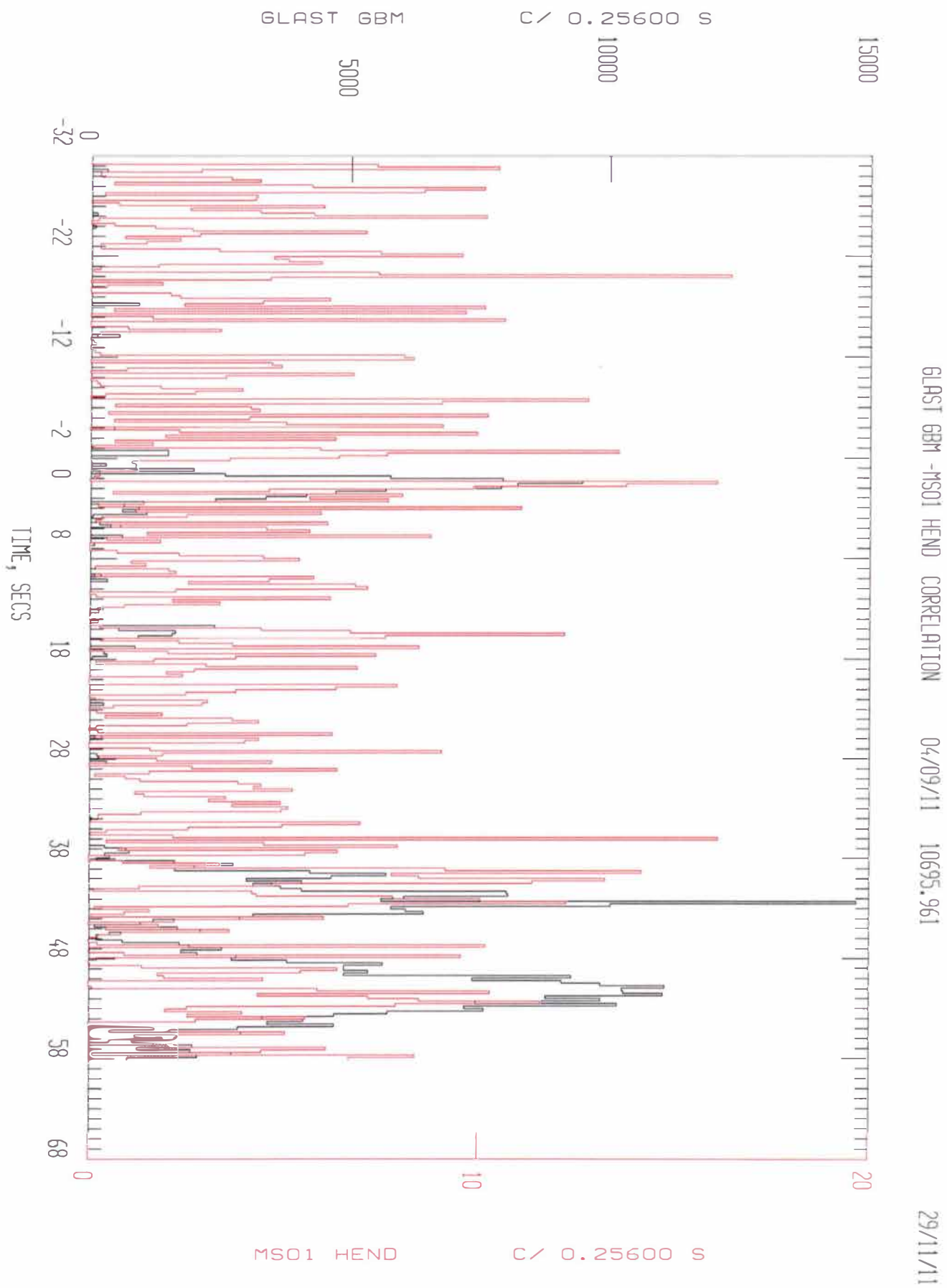
9345.491

A

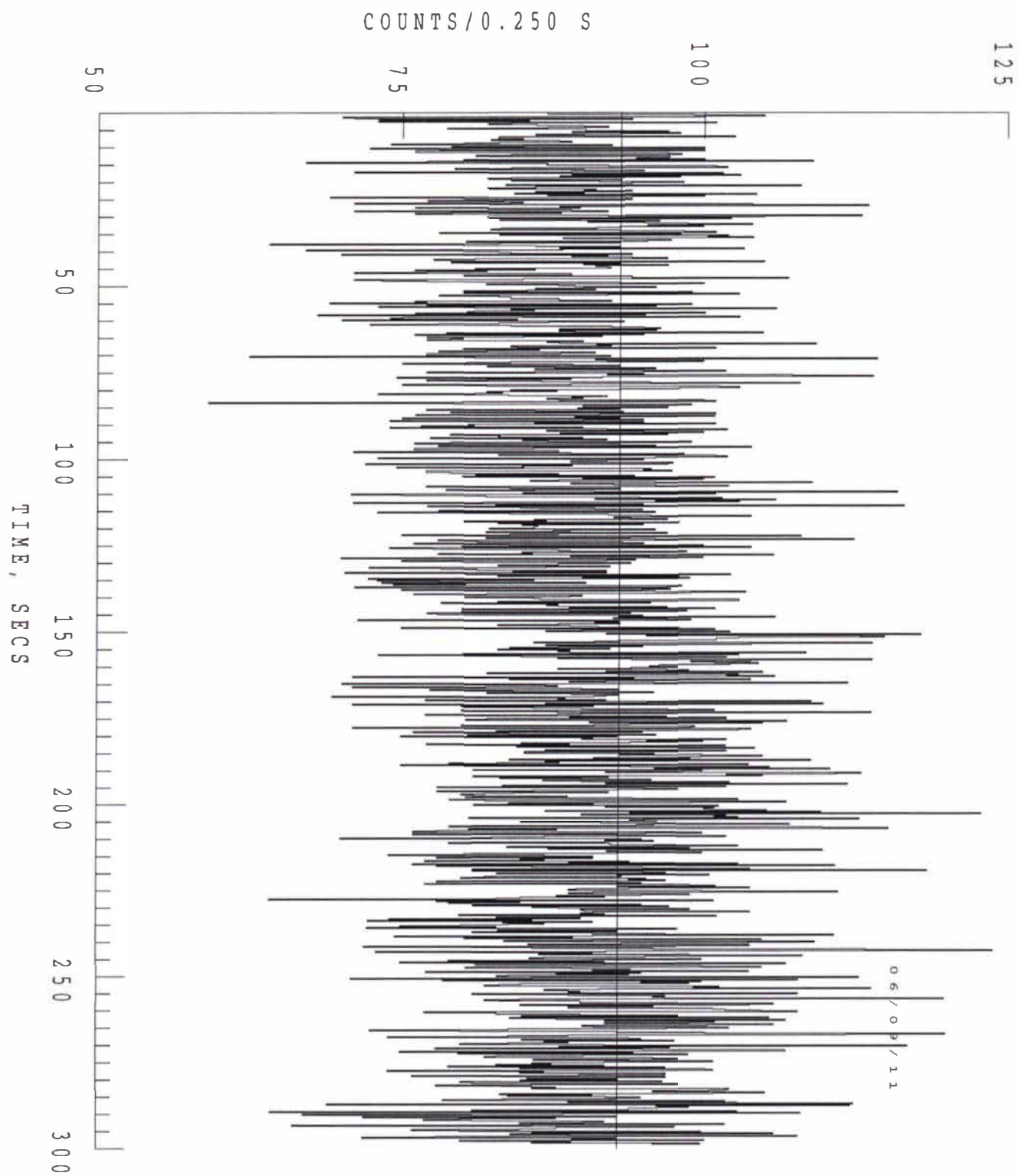
50 - 3000 keV







25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110904_0258

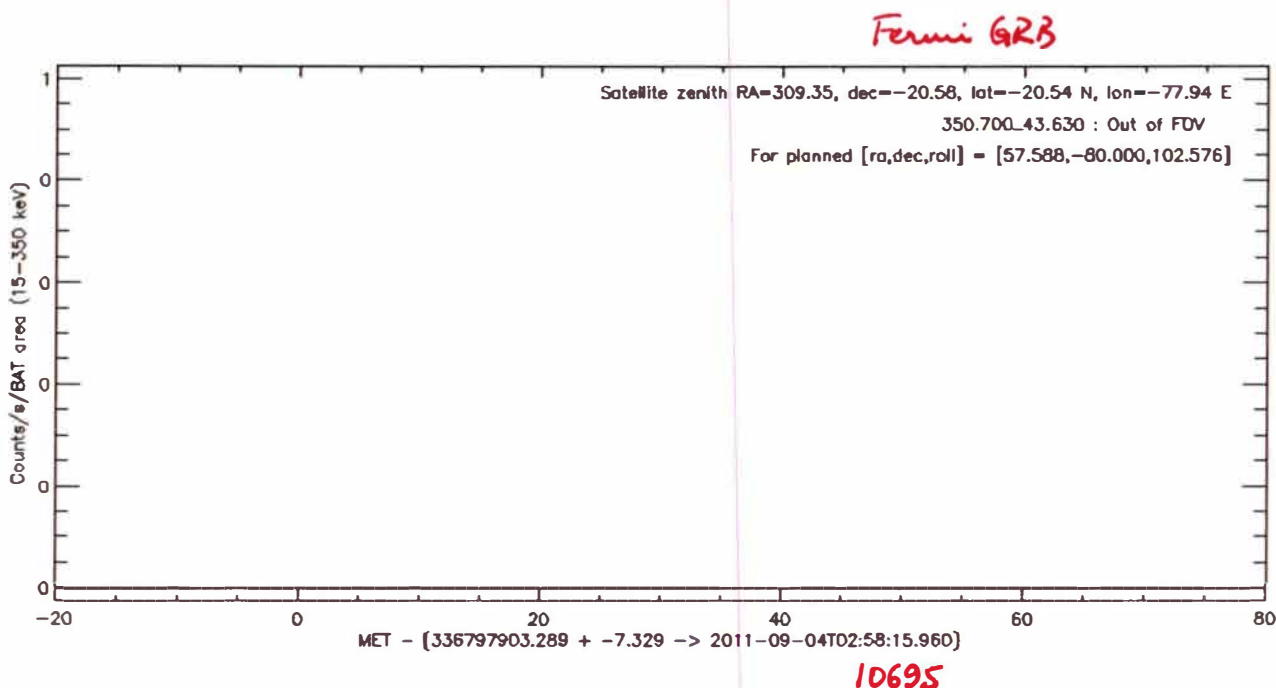
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 3 Sep 2011 23:33:34 -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/110904_0258.png



```
% /usr/local/bin/swinfo -o 336797903.289 -s 0.867_32.733
Time(MET + UTCF -> UT): 336797903.289 + -7.329 -> 2011-09-04T02:58:15.960
Swift Zenith(RA,dec): 309.35, -20.58
Swift Location(lon,lat,alt): -77.94 E, -20.54 N, 590 km
Obs Sequence Number: 00074213113
Obs Target Name: saa-cold-247-01 (planned)
Obs Date and Times: 2011-09-04 02:53:52 - 03:17:52
Obs Pointing(ra,dec,roll): 57.588, -80.000, 102.58
0.867_32.733_imageloc (boresight_dist, angle): (117, 115)
0.867_32.733_exposure (cm^2 cos adjusted): 0
0.867_32.733_altitude: 41 (up)
```

```
% /usr/local/bin/swinfo -o 336797903.289 -s 1.383_32.267
Time(MET + UTCF -> UT): 336797903.289 + -7.329 -> 2011-09-04T02:58:15.960
Swift Zenith(RA,dec): 309.35, -20.58
Swift Location(lon,lat,alt): -77.94 E, -20.54 N, 590 km
Obs Sequence Number: 00074213113
Obs Target Name: saa-cold-247-01 (planned)
Obs Date and Times: 2011-09-04 02:53:52 - 03:17:52
Obs Pointing(ra,dec,roll): 57.588, -80.000, 102.58
1.383_32.267_imageloc (boresight_dist, angle): (116, 116)
1.383_32.267_exposure (cm^2 cos adjusted): 0
1.383_32.267_altitude: 41 (up)
```

```
% /usr/local/bin/swinfo -o 336797903.289 -s 341.120_37.640
Time(MET + UTCF -> UT): 336797903.289 + -7.329 -> 2011-09-04T02:58:15.960
Swift Zenith(RA,dec): 309.35, -20.58
Swift Location(lon,lat,alt): -77.94 E, -20.54 N, 590 km
Obs Sequence Number: 00074213113
Obs Target Name: saa-cold-247-01 (planned)
Obs Date and Times: 2011-09-04 02:53:52 - 03:17:52
Obs Pointing(ra,dec,roll): 57.588, -80.000, 102.58
341.120_37.640_imageloc (boresight_dist, angle): (125, 98)
341.120_37.640_exposure (cm^2 cos adjusted): 0
341.120_37.640_altitude: 48 (up)
```

```
% /usr/local/bin/swinfo -o 336797903.289 -s 347.950_41.470
Time(MET + UTCF -> UT): 336797903.289 + -7.329 -> 2011-09-04T02:58:15.960
Swift Zenith(RA,dec): 309.35, -20.58
```


[Ipn] BAT lightcurve for trigger at I10904_0258

```
Swift Location(lon,lat,alt): -77.94 E, -20.54 N, 590 km
Obs Sequence Number: 00074213113
Obs Target Name: saa-cold-247-01 (planned)
Obs Date and Times: 2011-09-04 02:53:52 - 03:17:52
Obs Pointing(ra,dec,roll): 57.588, -80.000, 102.58
347.950_41.470_imageloc (boresight_dist, angle): (127, 105)
347.950_41.470_exposure (cm^2 cos adjusted): 0
347.950_41.470_altitude: 42 (up)

% /usr/local/bin/swinfo -o 336797903.289 -s 350.370 40.270
Time(MET + UTCF -> UT): 336797903.289 + -7.329 -> 2011-09-04T02:58:15.960
Swift Zenith(RA,dec): 309.35, -20.58
Swift Location(lon,lat,alt): -77.94 E, -20.54 N, 590 km
Obs Sequence Number: 00074213113
Obs Target Name: saa-cold-247-01 (planned)
Obs Date and Times: 2011-09-04 02:53:52 - 03:17:52
Obs Pointing(ra,dec,roll): 57.588, -80.000, 102.58
350.370_40.270_imageloc (boresight_dist, angle): (126, 107)
350.370_40.270_exposure (cm^2 cos adjusted): 0
350.370_40.270_altitude: 42 (up)

% /usr/local/bin/swinfo -o 336797903.289 -s 350.700 43.630
Time(MET + UTCF -> UT): 336797903.289 + -7.329 -> 2011-09-04T02:58:15.960
Swift Zenith(RA,dec): 309.35, -20.58
Swift Location(lon,lat,alt): -77.94 E, -20.54 N, 590 km
Obs Sequence Number: 00074213113
Obs Target Name: saa-cold-247-01 (planned)
Obs Date and Times: 2011-09-04 02:53:52 - 03:17:52
Obs Pointing(ra,dec,roll): 57.588, -80.000, 102.58
350.700_43.630_imageloc (boresight_dist, angle): (129, 108)
350.700_43.630_exposure (cm^2 cos adjusted): 0
350.700_43.630_altitude: 39 (up)

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

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

/tmp/110904_0258_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

/tmp/110904_0258.png

/tmp/110904_0258.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

29/11/11

MESSSENGER

04/09/11

DOY 247

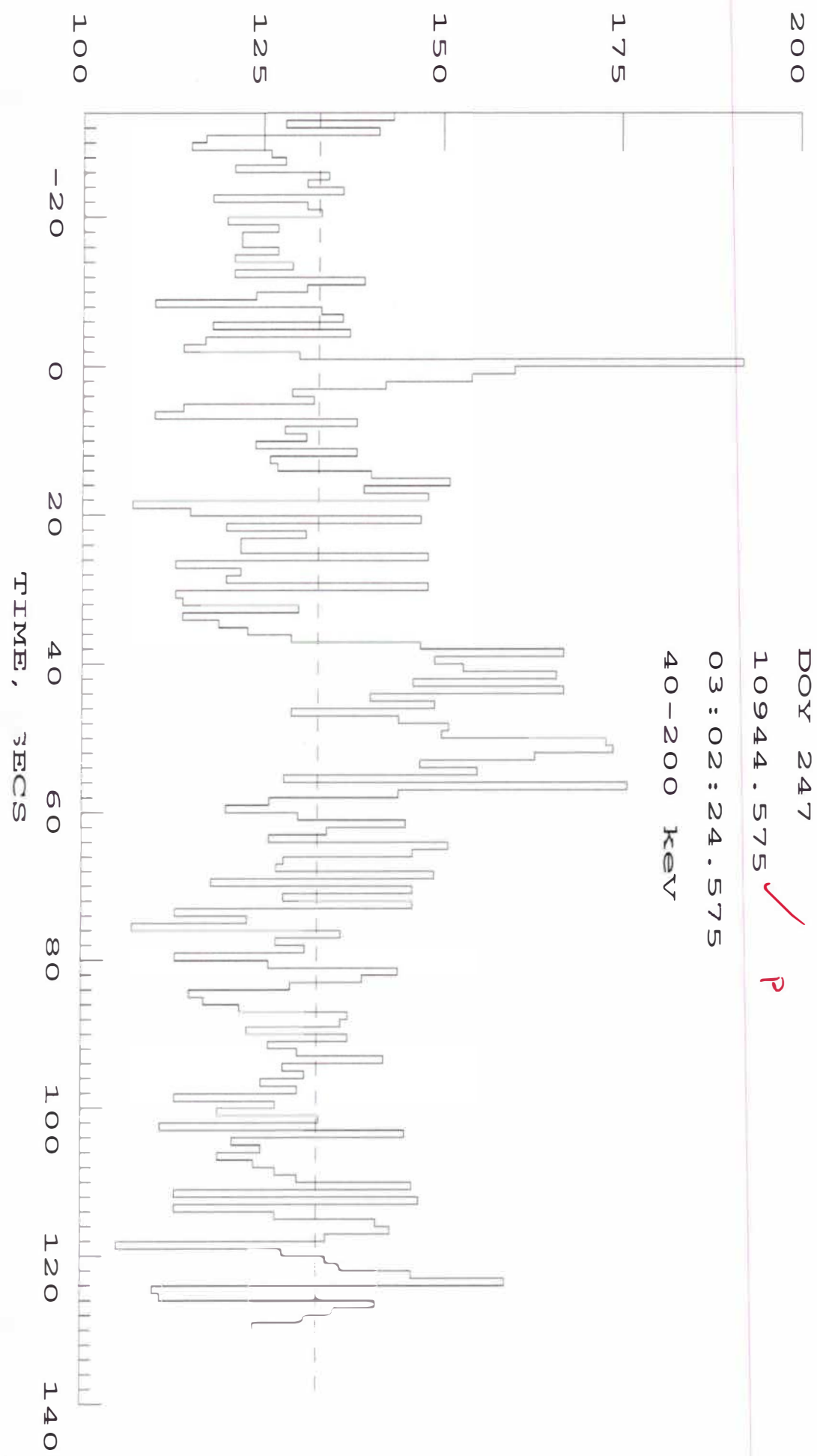
10944.575 ✓

P

03:02:24.575

40-200 kev

COUNTS/1.000 S



GLAST

04/09/11

10695.961

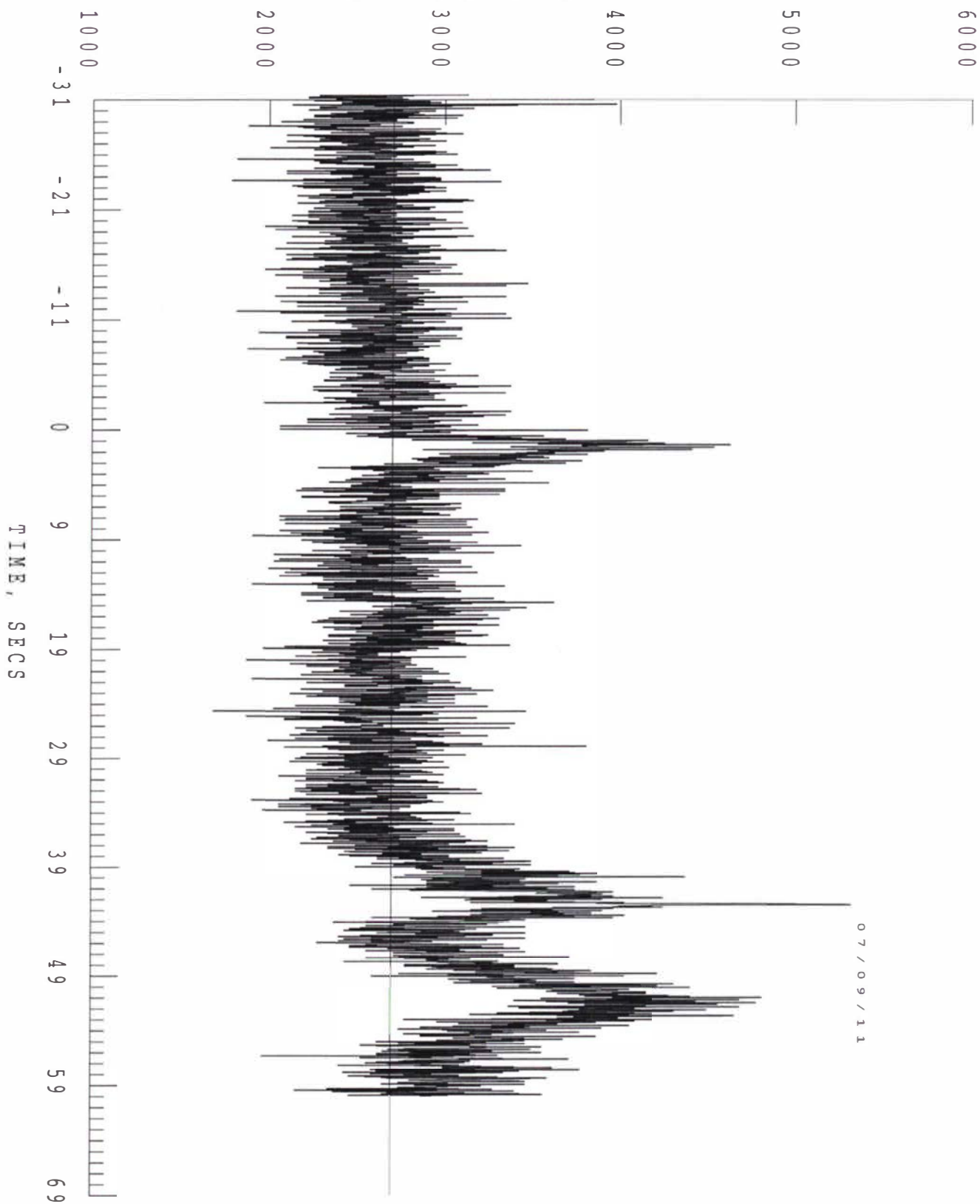
02:58:15

A

26- 293 keV

359.69 35.9 2.63

COUNTS/0.032 S



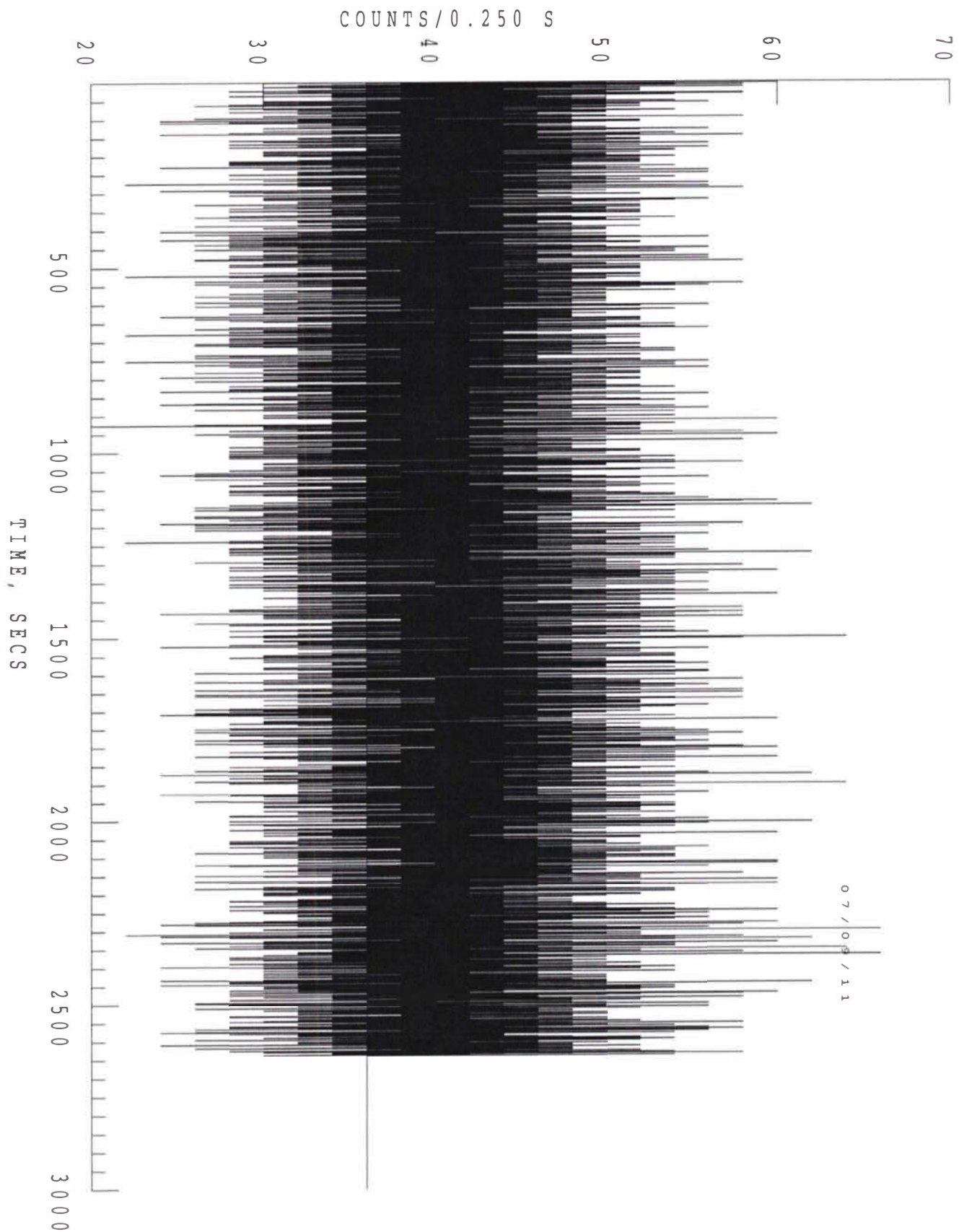
MS01

04/09/11

14985.392

50 - 3000 keV

22



GLAST

04/09/11

14076.019

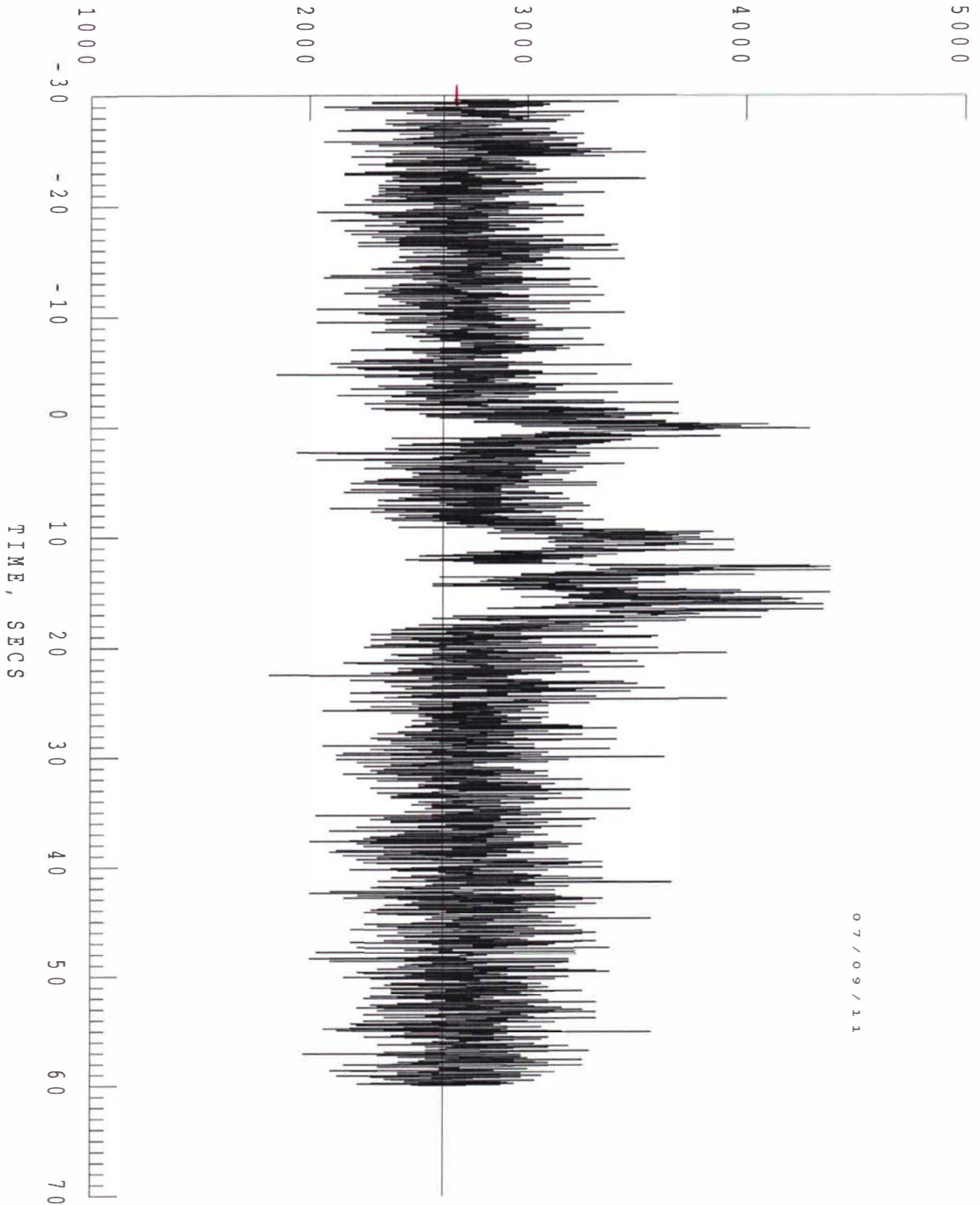
03:54:36

B

26 - 293 keV

190.4 -27.15 6.11

COUNTS/0.032 S



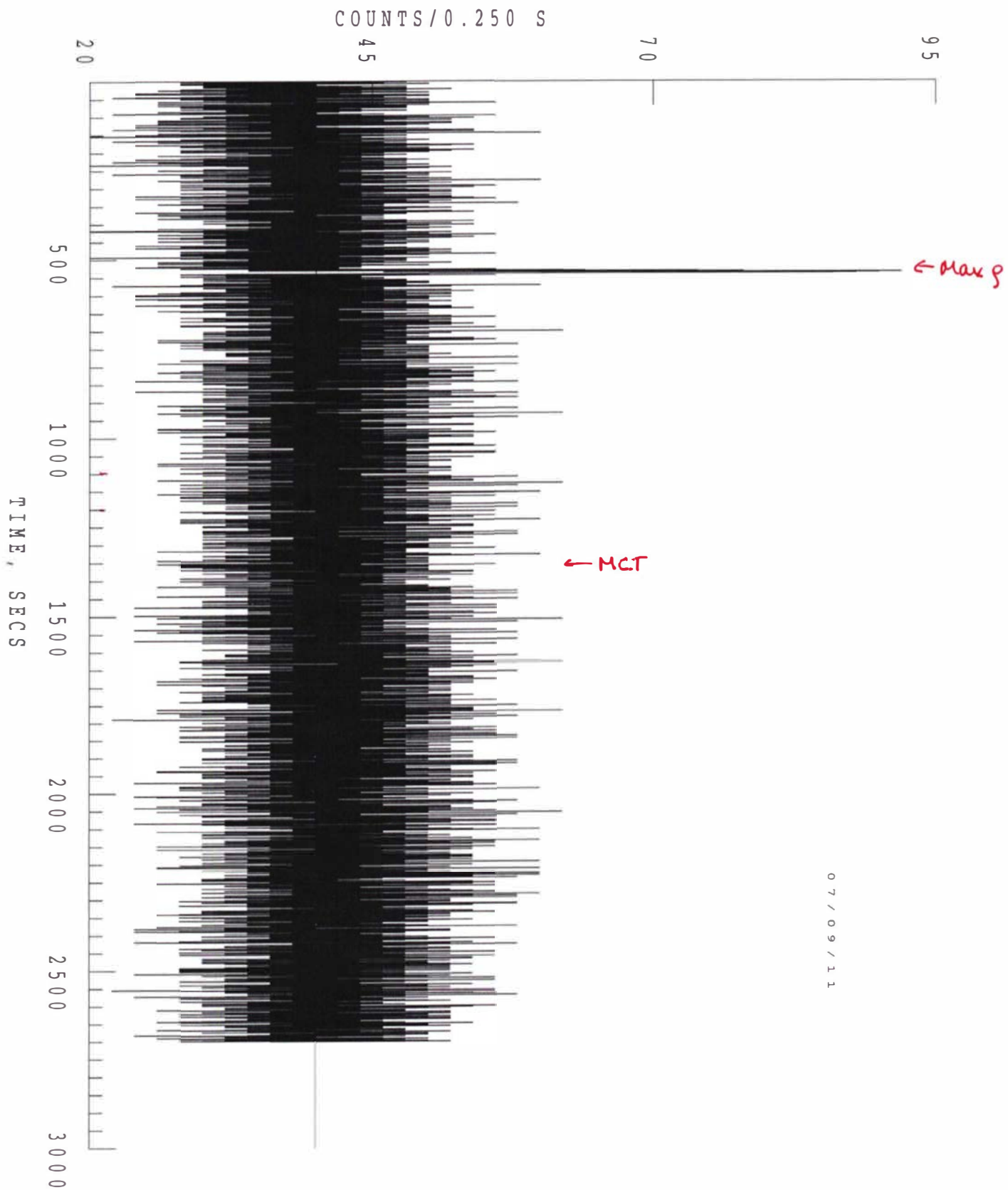
MS01

04/09/11

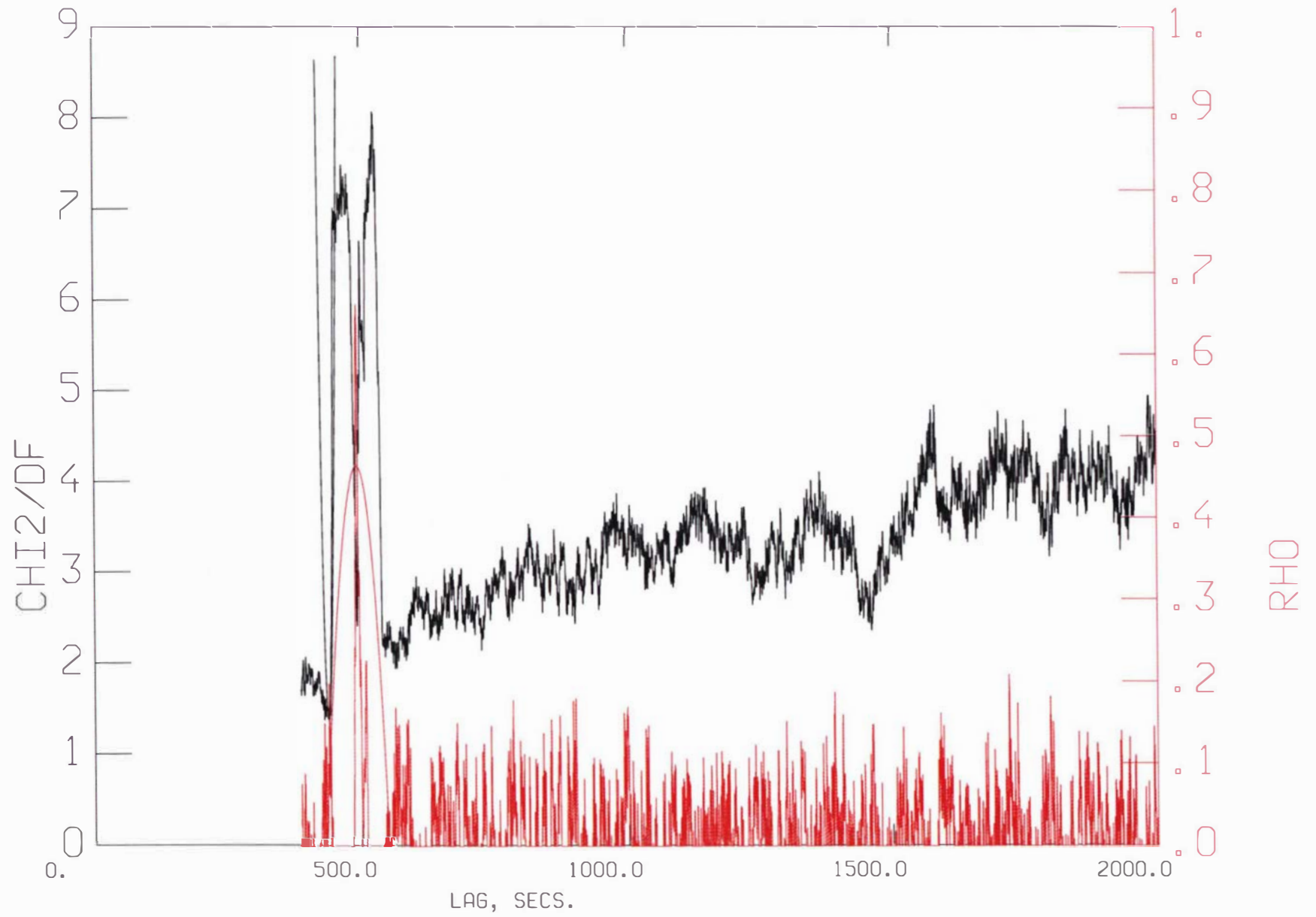
12705.430

B

50 - 3000 keV



B

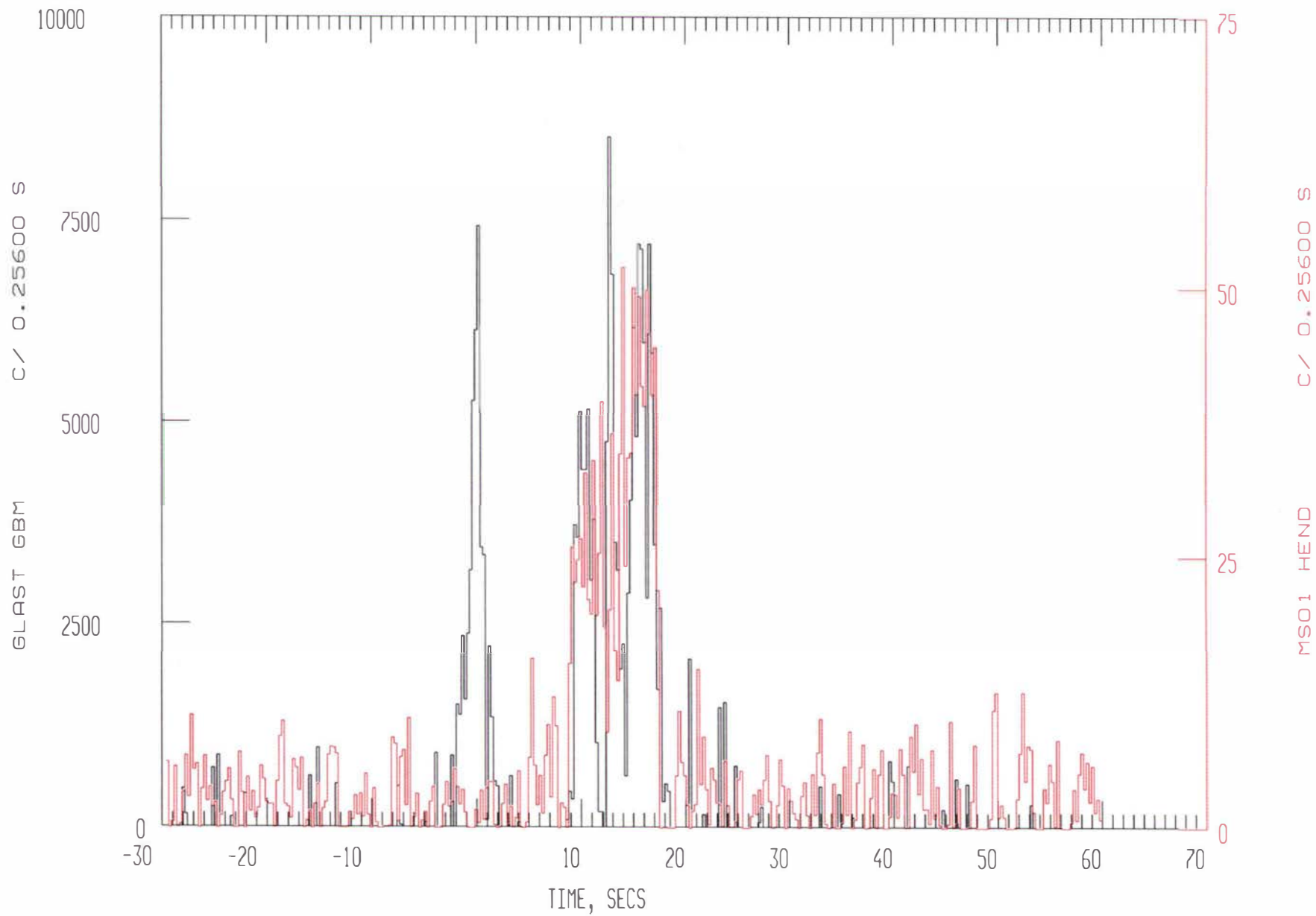


B

GLAST GBM -MS01 HEND CORRELATION

04/09/11 14076.019

29/11/11



From williams@gammaburst.ssl.berkeley.edu Wed Sep 7 16:04:14 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Wed, 7 Sep 2011 16:03:34 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for GLAST 20110904_14076
X-Ucb-Scan-Signature: 956a986464cbf1e54281e968471329b72faabd5c
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 7-Sep-2011 16:04:40.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

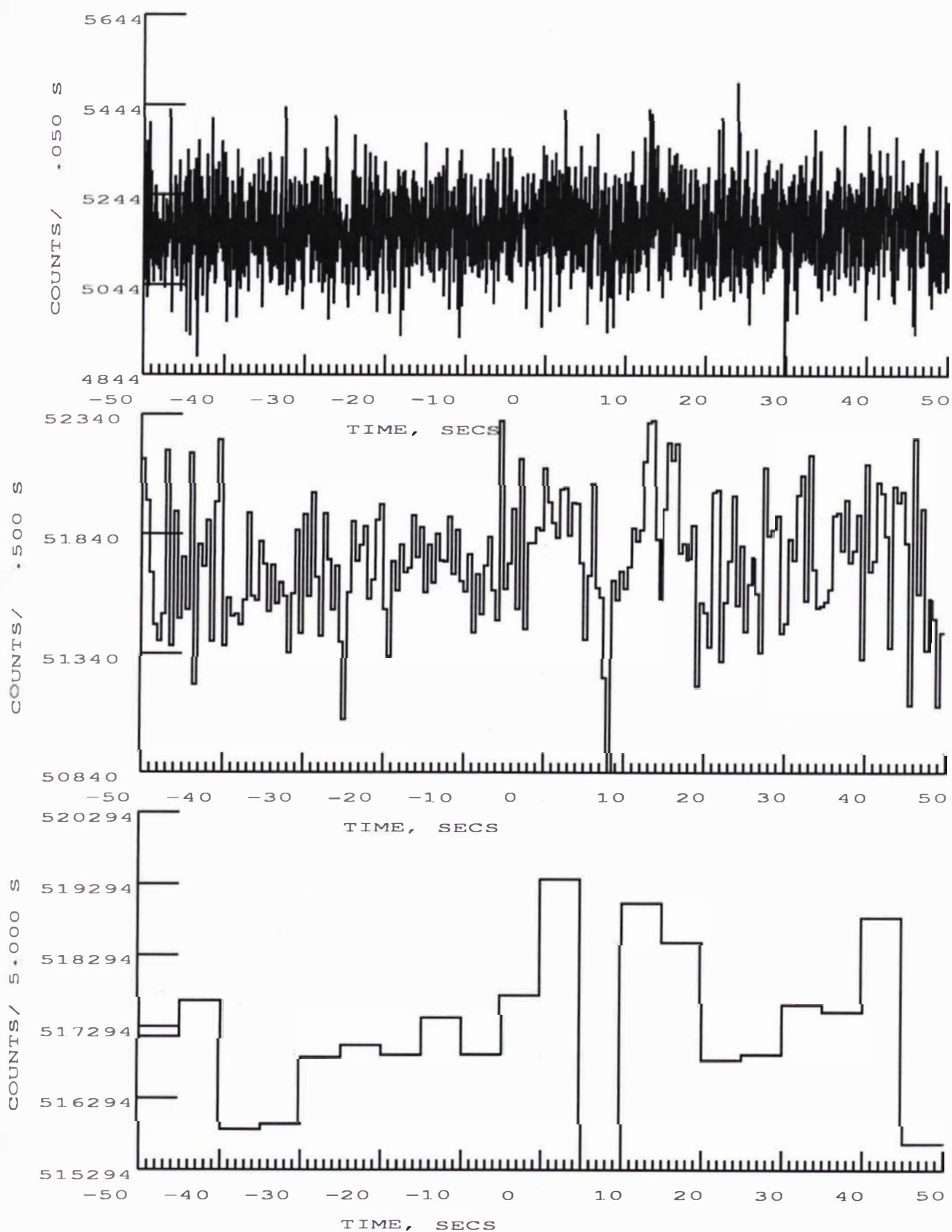
INTEGRAL

04/09/11.

14076.000

03:54:36.0

20/01/14



Subject: [lbn] BAT lightcurve for trigger at 110904_0354

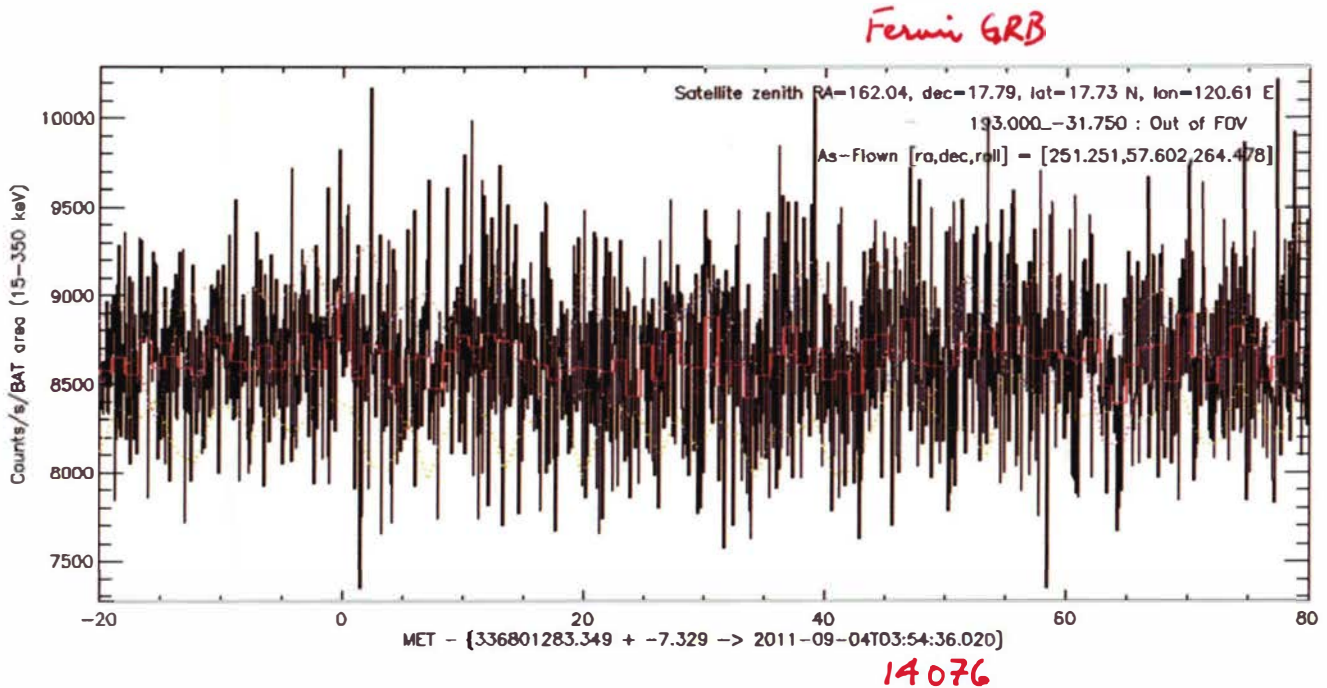
From: palmer+automatic_lightcurve@lanl.gov

Date: Sun, 4 Sep 2011 06:27:50 -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/110904_0354.png



```
% /usr/local/bin/swinfo -o 336801283.349 -s 183.160 -24.080
Time(MET + UTCF -> UT): 336801283.349 + -7.329 -> 2011-09-04T03:54:36.020
Swift Zenith(RA,dec): 162.04, 17.79
Swift Location(lon,lat,alt): 120.61 E, 17.73 N, 584 km
Obs Sequence Number: 00031955162
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2011-09-04 03:50:54 - 04:00:49
Obs Pointing(ra,dec,roll): 251.251, 57.602, 264.48
183.160_-24.080_imageloc (boresight_dist, angle): (99, -115)
183.160_-24.080_exposure (cm^2 cos adjusted): 0
183.160_-24.080_altitude: 67 (up)
```

```
% /usr/local/bin/swinfo -o 336801283.349 -s 184.470 -23.930
Time(MET + UTCF -> UT): 336801283.349 + -7.329 -> 2011-09-04T03:54:36.020
Swift Zenith(RA,dec): 162.04, 17.79
Swift Location(lon,lat,alt): 120.61 E, 17.73 N, 584 km
Obs Sequence Number: 00031955162
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2011-09-04 03:50:54 - 04:00:49
Obs Pointing(ra,dec,roll): 251.251, 57.602, 264.48
184.470_-23.930_imageloc (boresight_dist, angle): (99, -116)
184.470_-23.930_exposure (cm^2 cos adjusted): 0
184.470_-23.930_altitude: 67 (up)
```

```
% /usr/local/bin/swinfo -o 336801283.349 -s 186.430 -35.470
Time(MET + UTCF -> UT): 336801283.349 + -7.329 -> 2011-09-04T03:54:36.020
Swift Zenith(RA,dec): 162.04, 17.79
Swift Location(lon,lat,alt): 120.61 E, 17.73 N, 584 km
Obs Sequence Number: 00031955162
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2011-09-04 03:50:54 - 04:00:49
Obs Pointing(ra,dec,roll): 251.251, 57.602, 264.48
186.430_-35.470_imageloc (boresight_dist, angle): (108, -124)
186.430_-35.470_exposure (cm^2 cos adjusted): 0
186.430_-35.470_altitude: 56 (up)
```

```
% /usr/local/bin/swinfo -o 336801283.349 -s 193.000 -31.750
Time(MET + UTCF -> UT): 336801283.349 + -7.329 -> 2011-09-04T03:54:36.020
Swift Zenith(RA,dec): 162.04, 17.79
```

[Ipn] BAT lightcurve for trigger at I10904_0354

Swift Location(lon,lat,alt): 120.61 E, 17.73 N, 584 km
Obs Sequence Number: 00031955162
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2011-09-04 03:50:54 - 04:00:49
Obs Pointing(ra,dec,roll): 251.251, 57.602, 264.48
193.000_-31.750_imageloc (boresight_dist, angle): (102, -127)
193.000_-31.750_exposure (cm² cos adjusted): 0
193.000_-31.750_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/110904_0354_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

/tmp/110904_0354.png

/tmp/110904_0354.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

04/09/11

45859.330

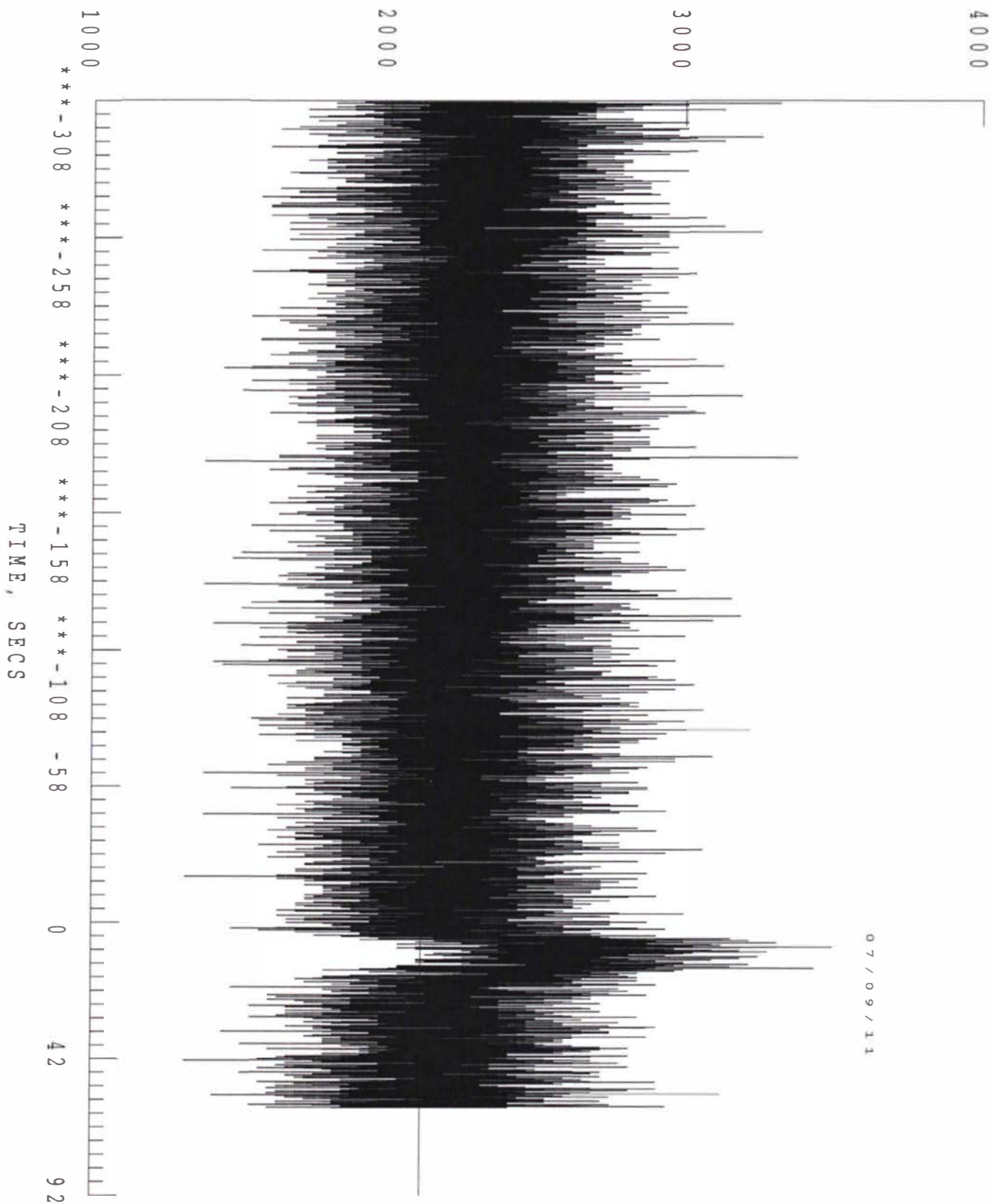
12:44:19

C

26 - 293 keV

323.74, 23.94, 1.68

COUNTS/0.032 S



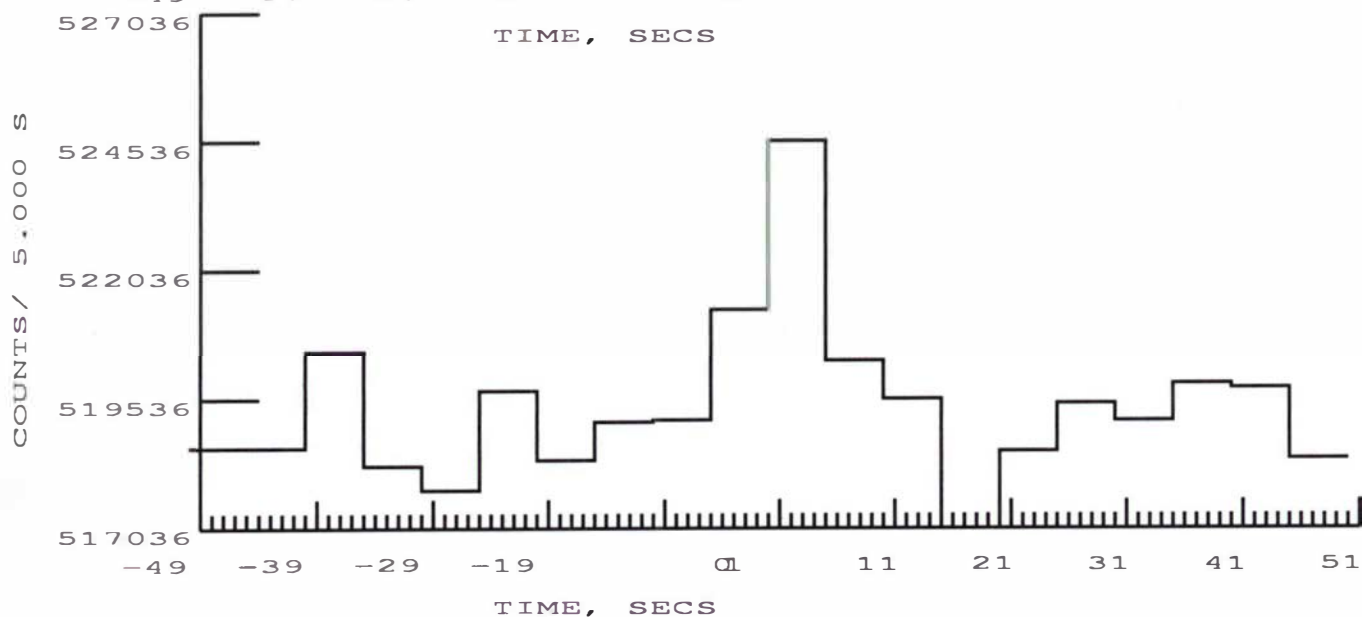
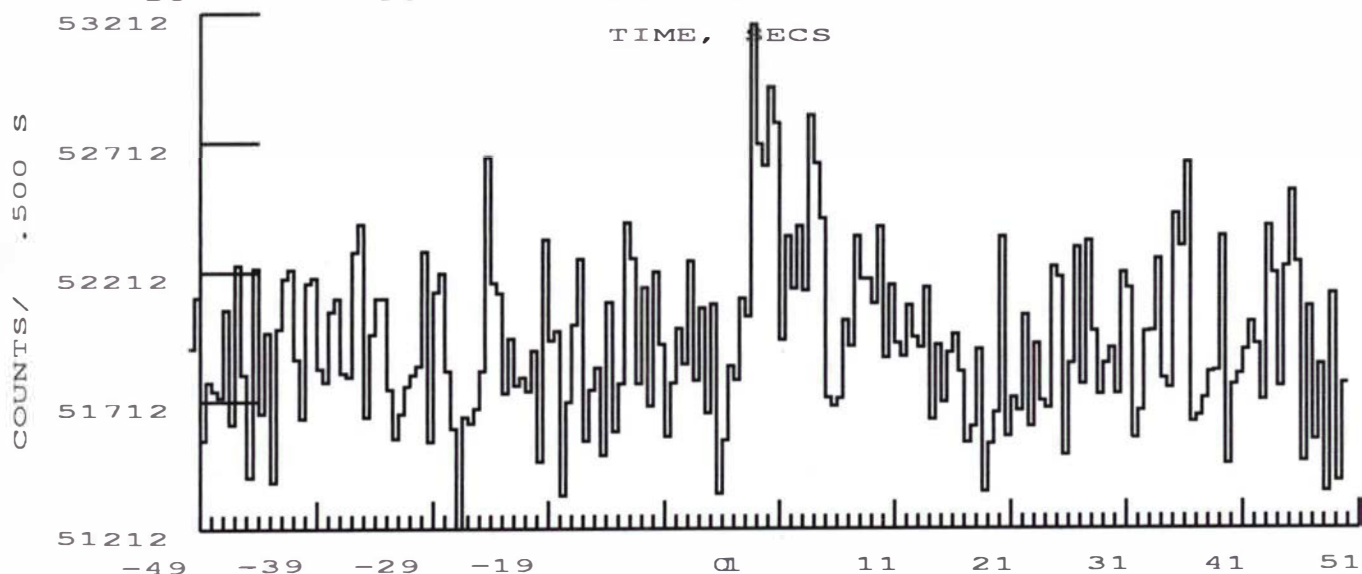
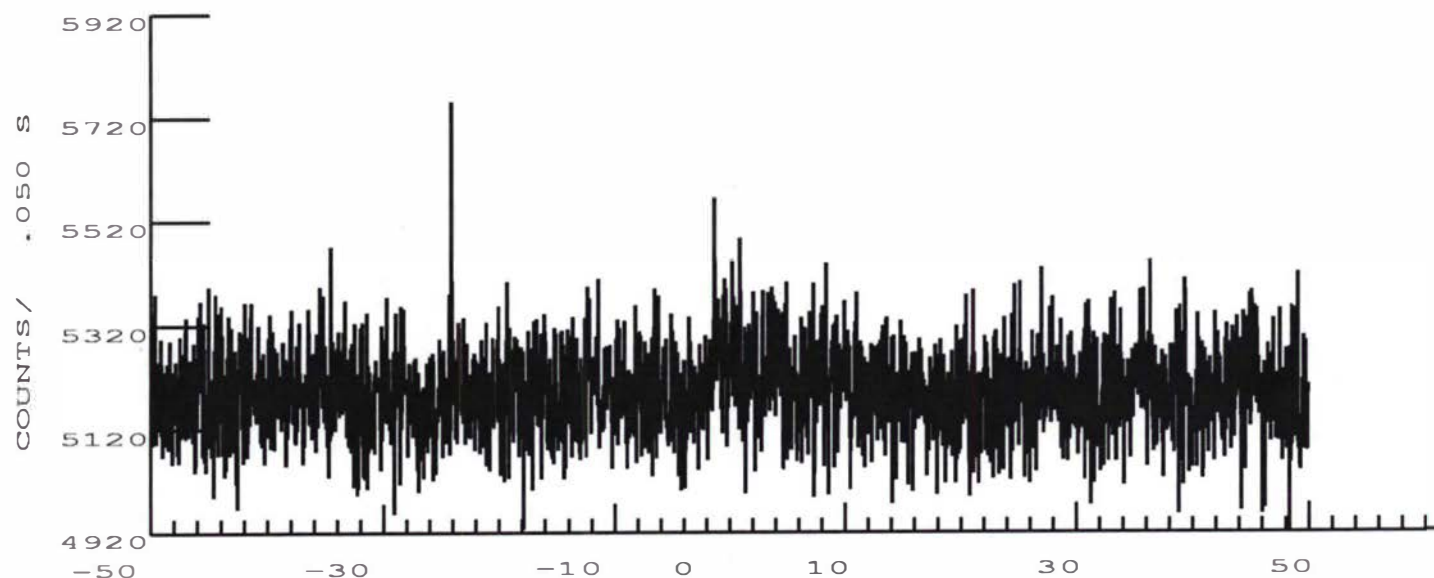
INTEGRAL

04/09/11

45859.000

12:44:19.0

20/01/14



MS01

04/09/11

44504.894

C

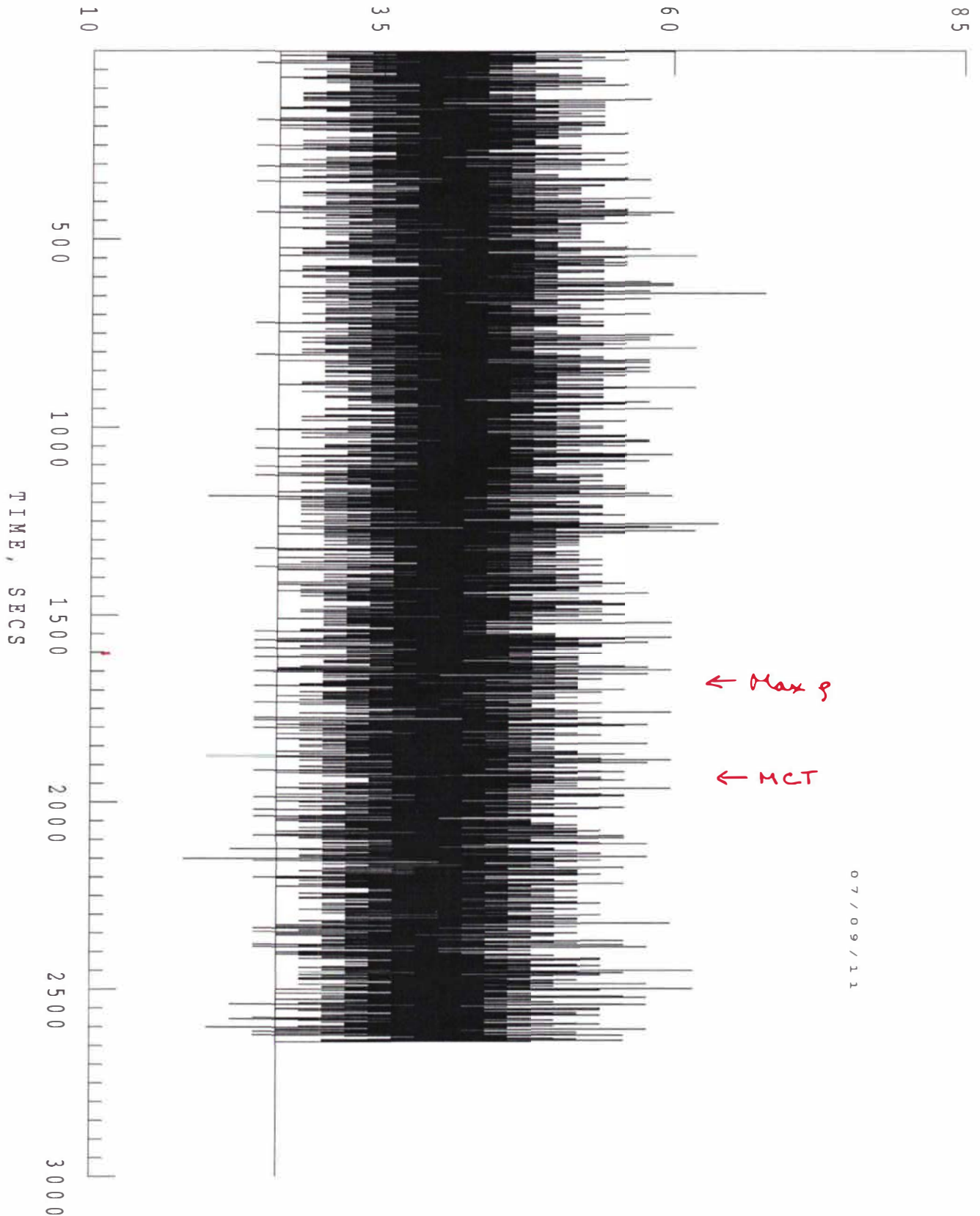
50 - 3000 keV

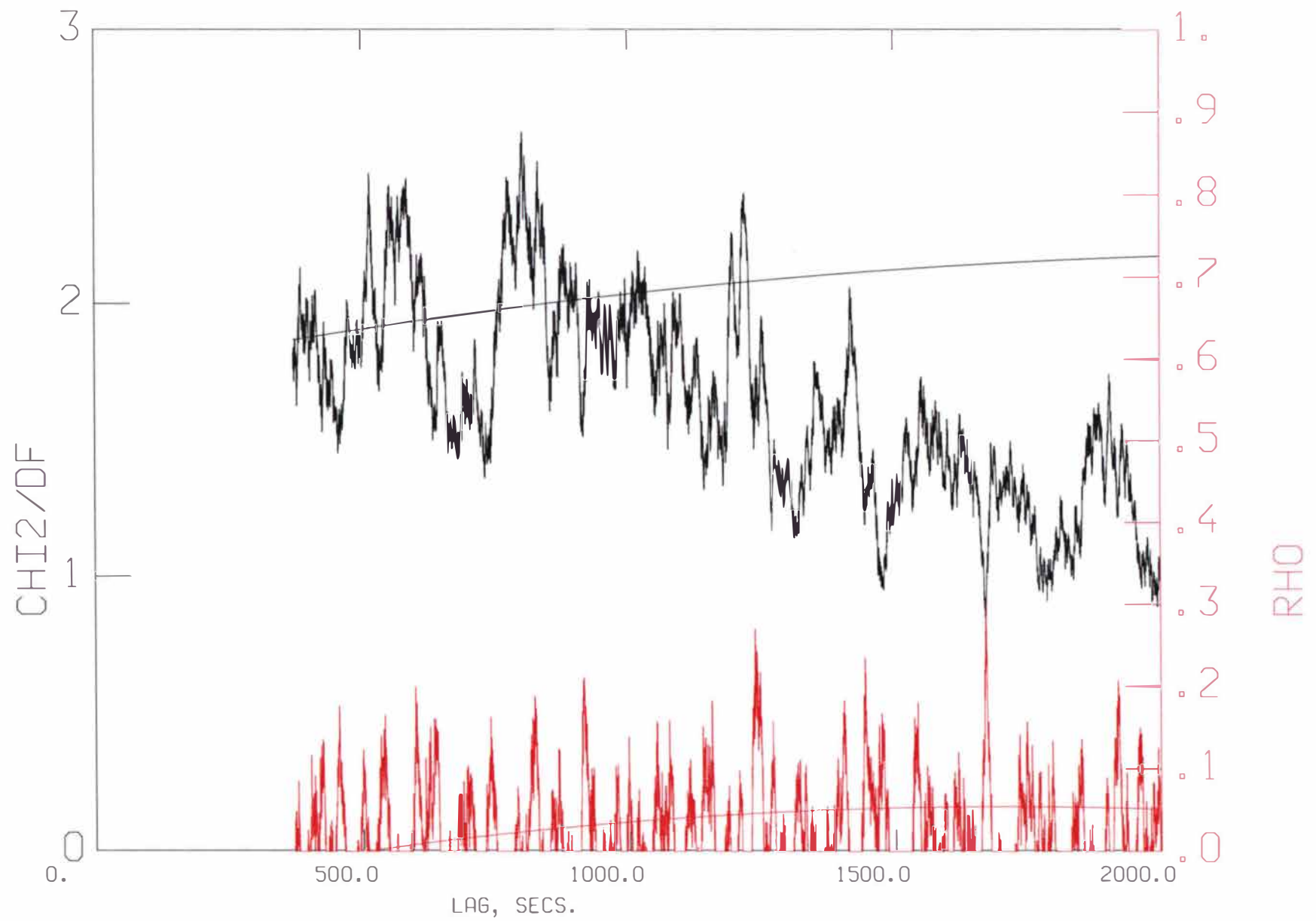
Fermi GRB at 45859 = 12:49:19

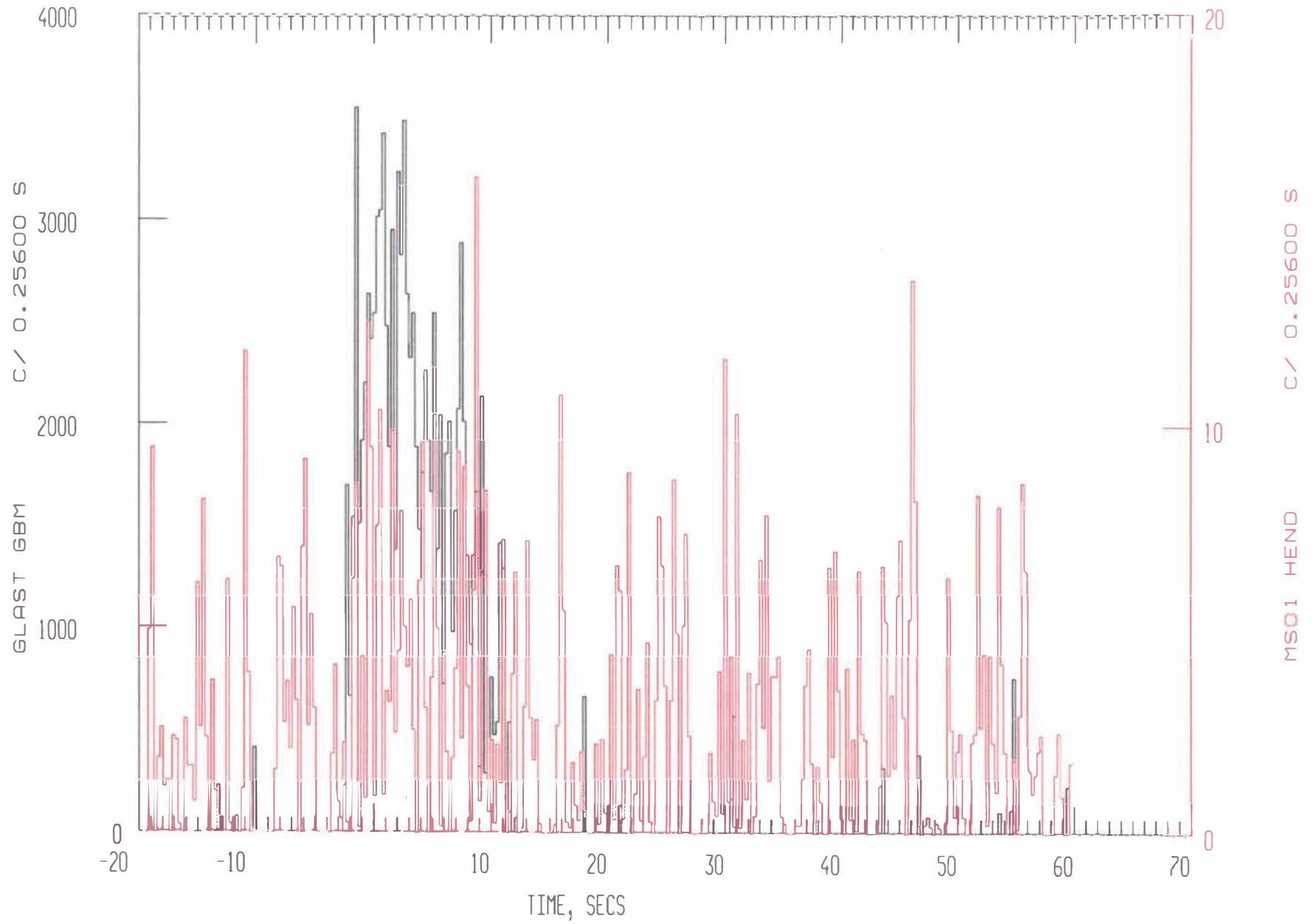
323.74, 23.94, 1.68

MCT 46419

COUNTS/0.250 S







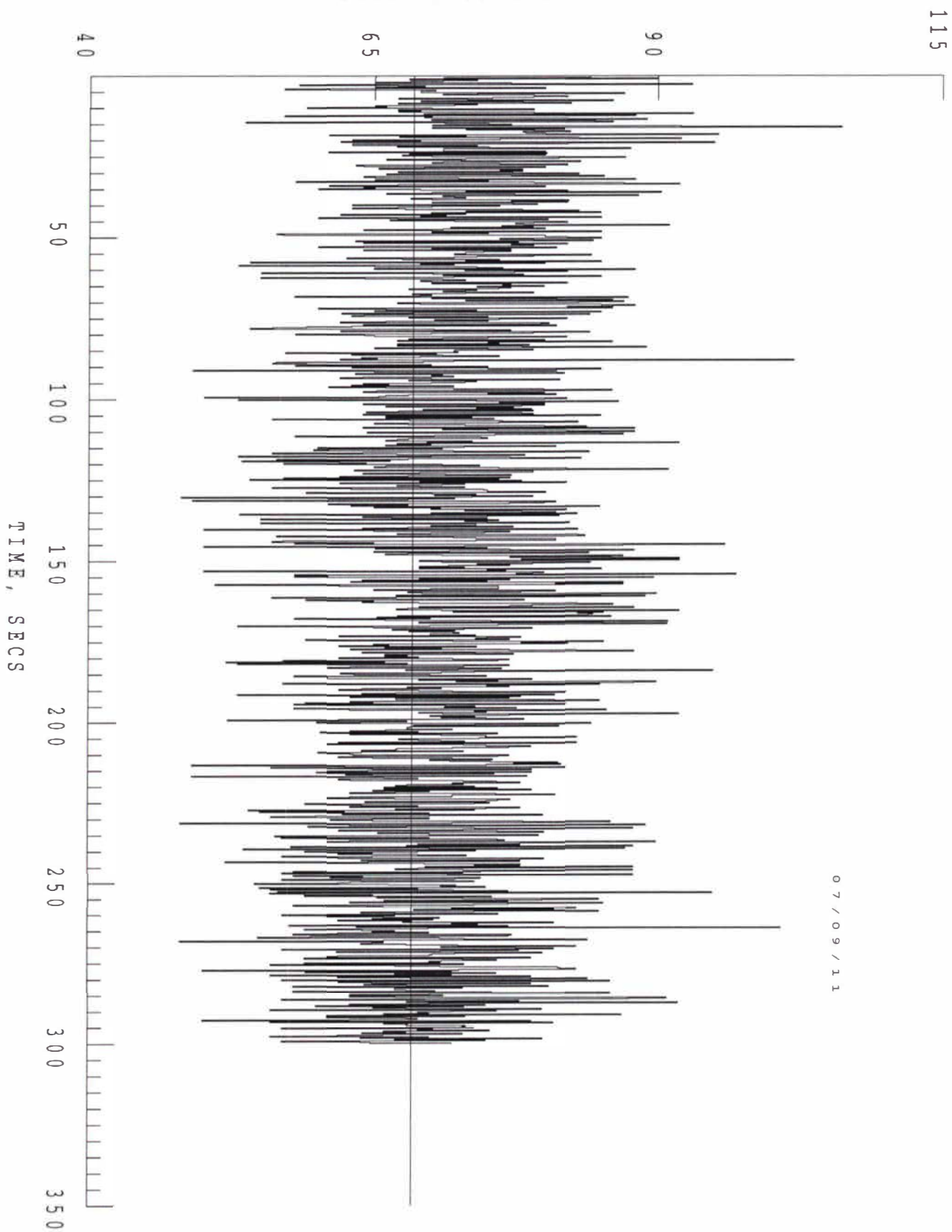
HESSI

04/09/11 45709.000 (GLAST_20110904_45859)

C

25- 150 keV

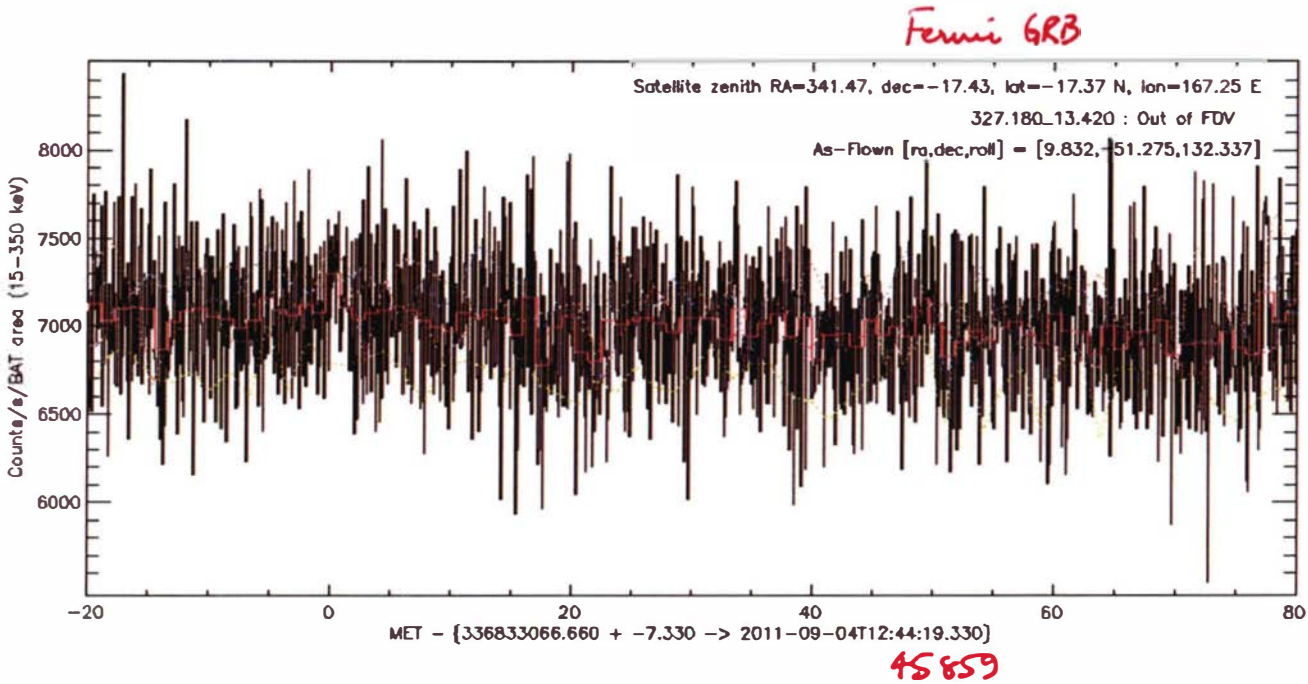
COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 110904_1244
From: palmer+automatic_lightcurve@lanl.gov
Date: Sun, 4 Sep 2011 12:14:06 -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/110904_1244.png



```
% /usr/local/bin/swinfo -o 336833066.660
Time(MET + UTCF -> UT): 336833066.660 + -7.330 -> 2011-09-04T12:44:19.330
Swift Zenith(RA,dec): 341.47, -17.43
Swift Location(lon,lat,alt): 167.25 E, -17.37 N, 585 km

% /usr/local/bin/swinfo -o 336833066.660 -s 327.180_13.420
Time(MET + UTCF -> UT): 336833066.660 + -7.330 -> 2011-09-04T12:44:19.330
Swift Zenith(RA,dec): 341.47, -17.43
Swift Location(lon,lat,alt): 167.25 E, -17.37 N, 585 km
Obs Sequence Number: 00091017011
Obs Target Name: WPVS 007
Obs Date and Times: 2011-09-04 12:26:54 - 12:48:50
Obs Pointing(ra,dec,roll): 9.832, -51.275, 132.34
327.180_13.420_imageloc (boresight_dist, angle): (75, 95)
327.180_13.420_exposure (cm^2 cos adjusted): 0
327.180_13.420_altitude: 80 (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/110904_1244_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

/tmp/110904_1244.png

/tmp/110904_1244.png	Content-Type: image/png Content-Encoding: base64
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Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
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Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
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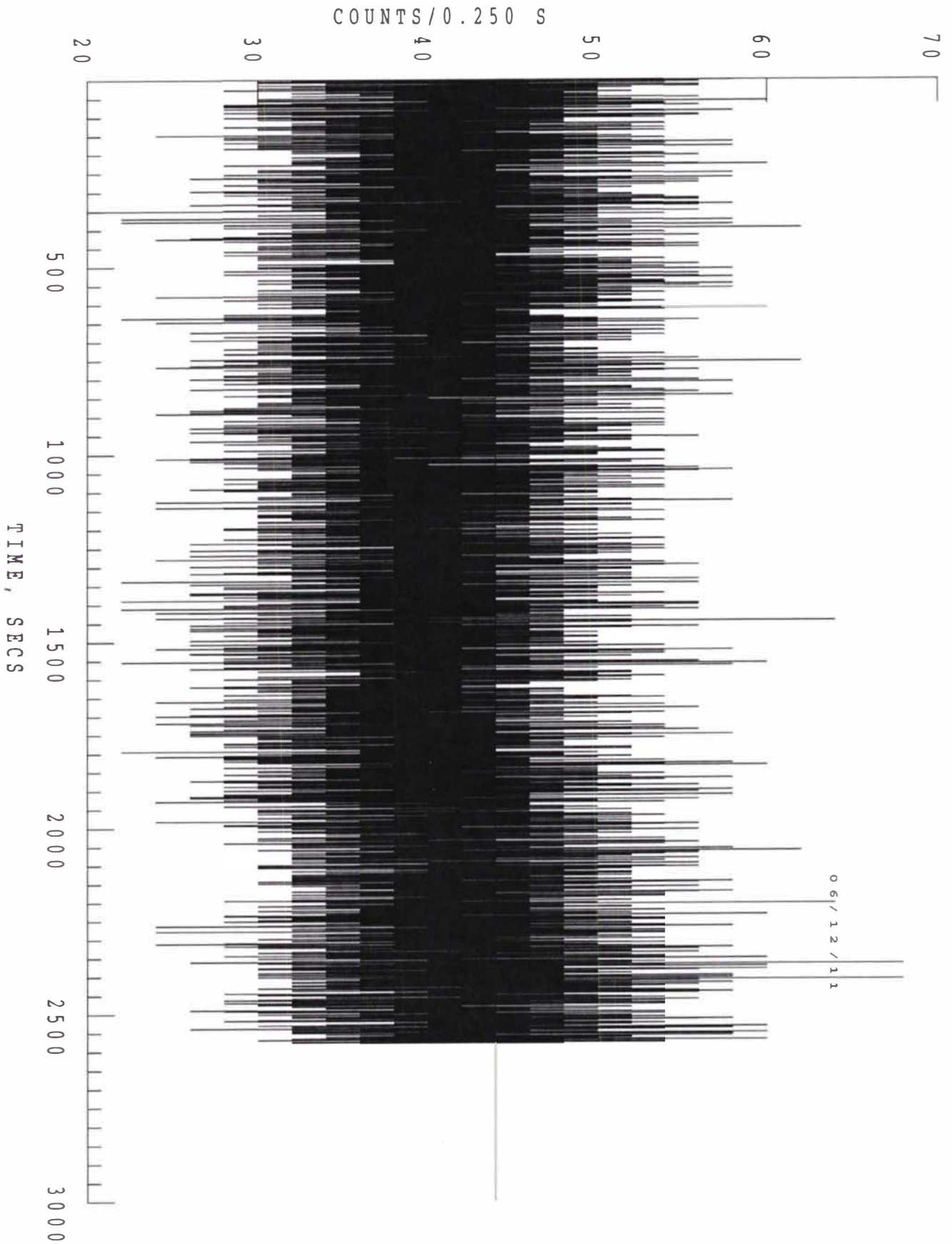
MS01

04/09/11

28665.022

D

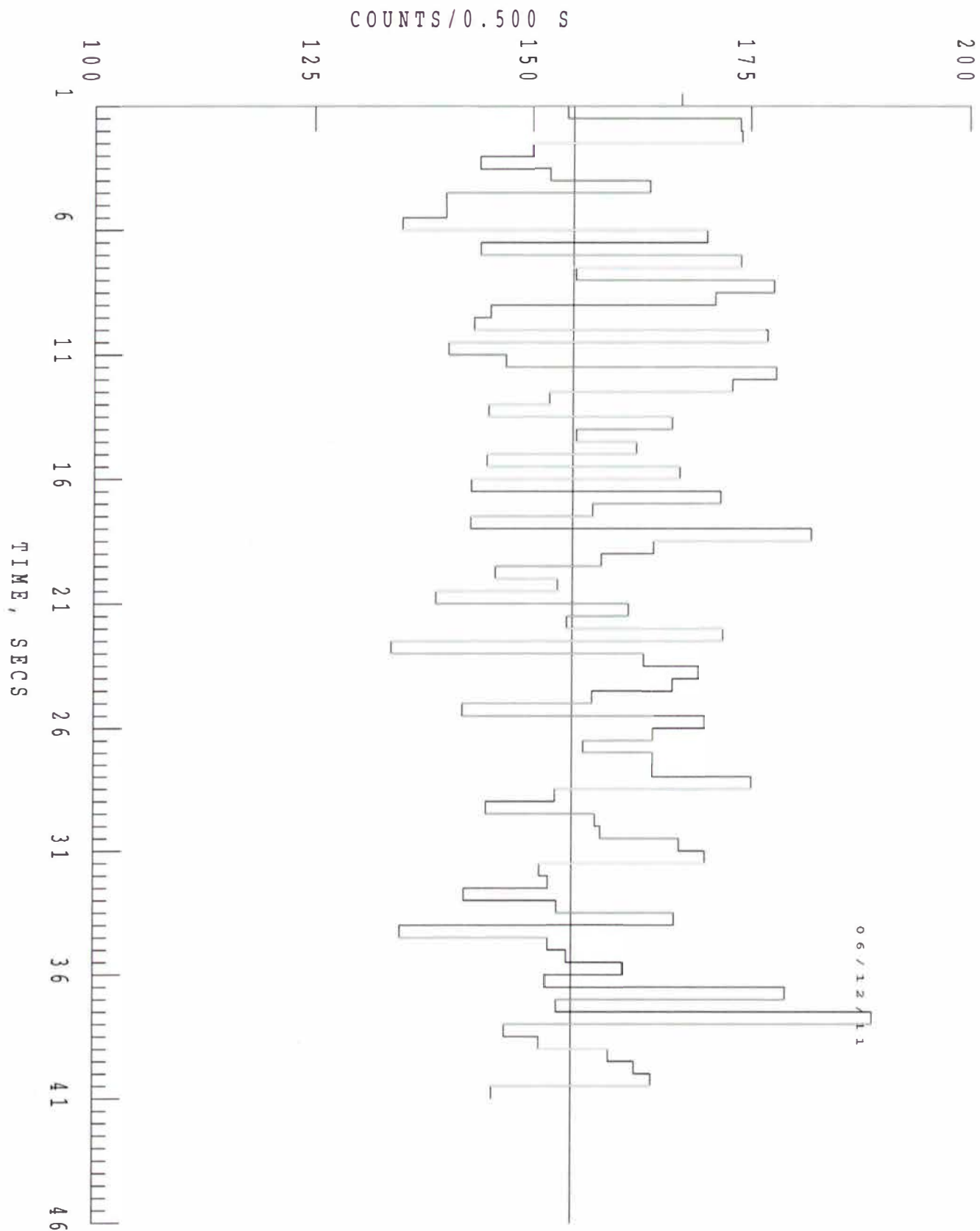
50 - 3000 keV



HESSI

04/09/11 29951.000 (SUZAKU_RI_20110904_29972)

25- 150 keV



D

06/12/11

MESSENGER

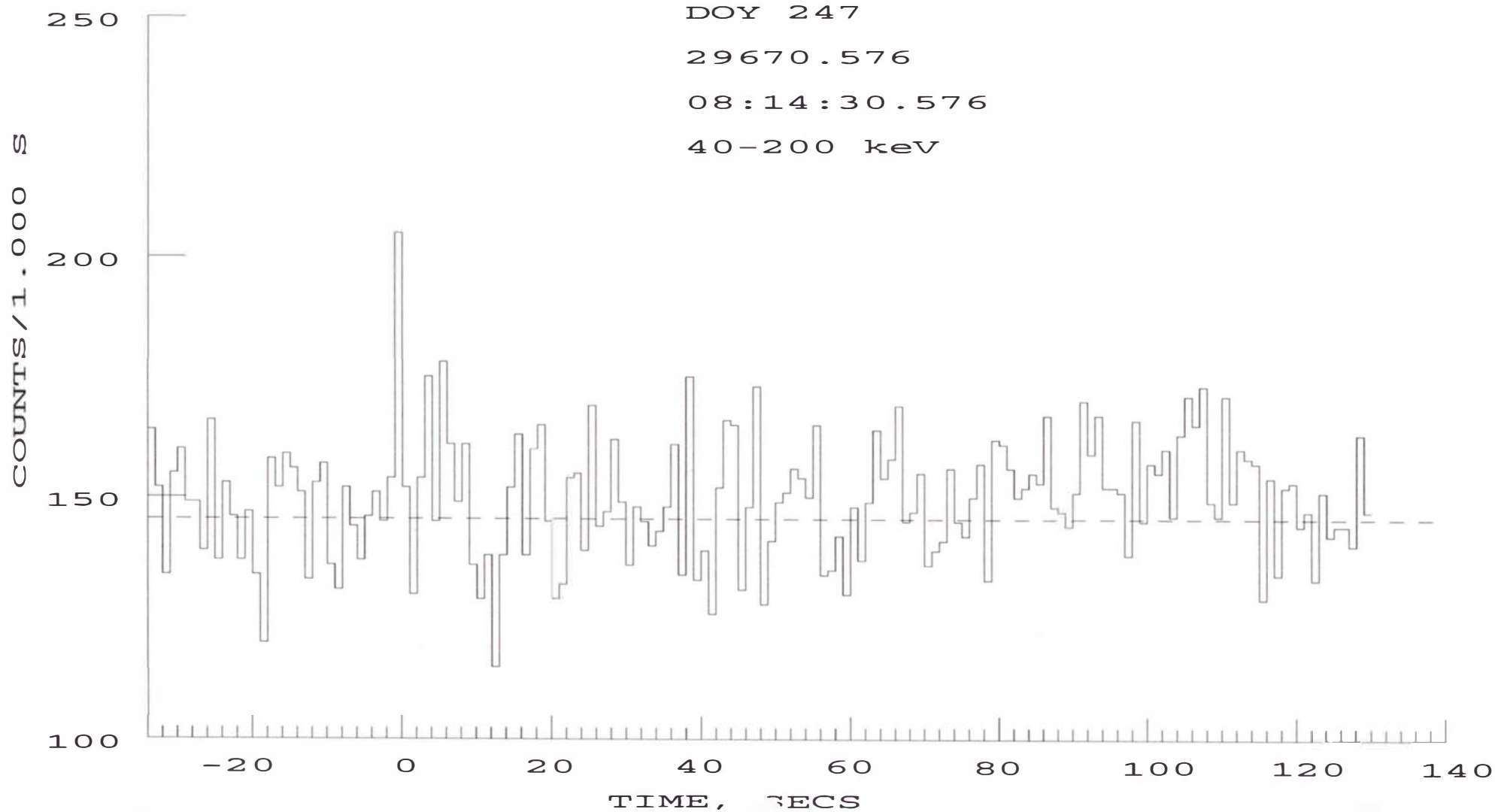
04/09/11

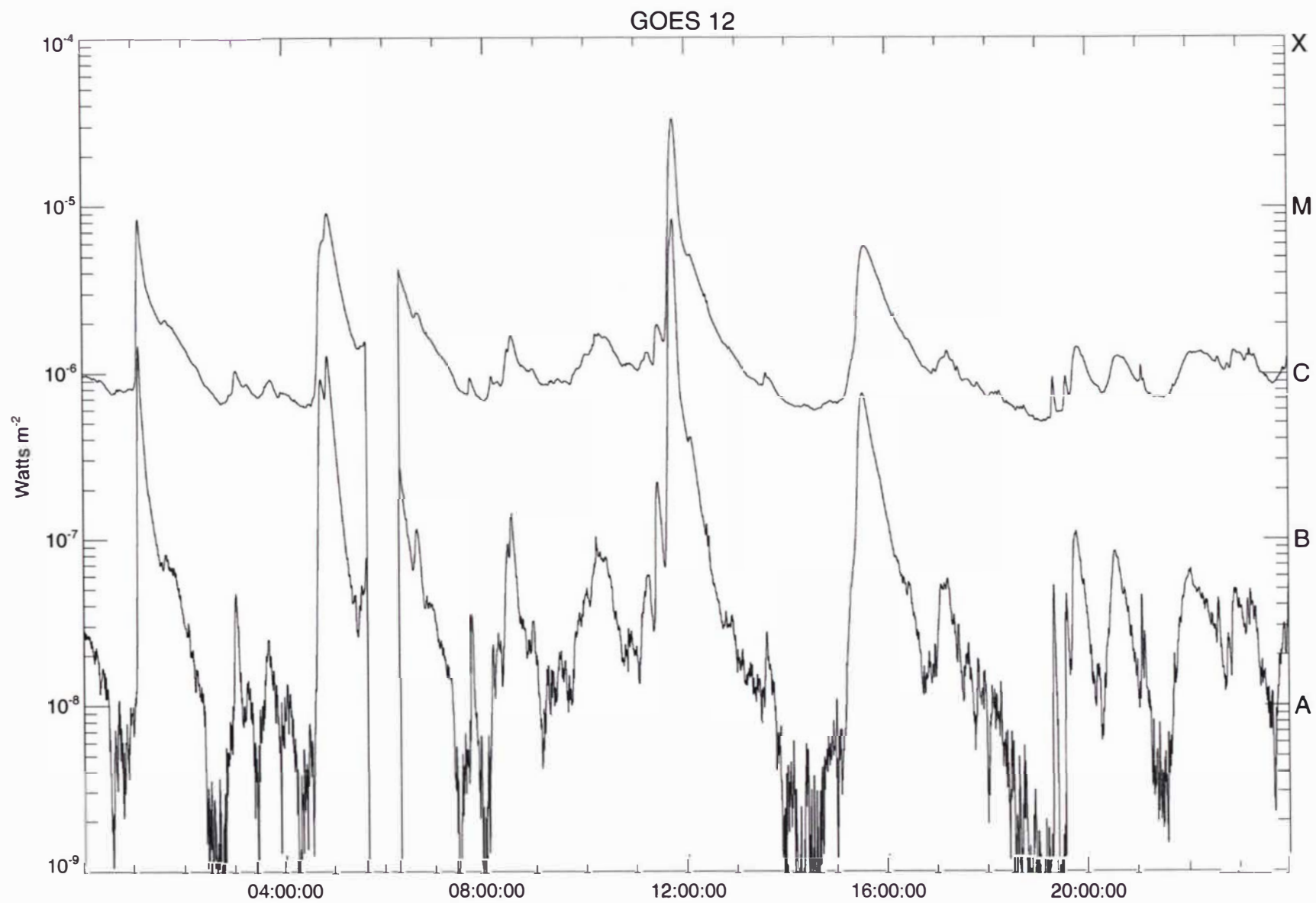
DOY 247

29670.576

08:14:30.576

40-200 keV





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

Plot created: 11/09/07, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

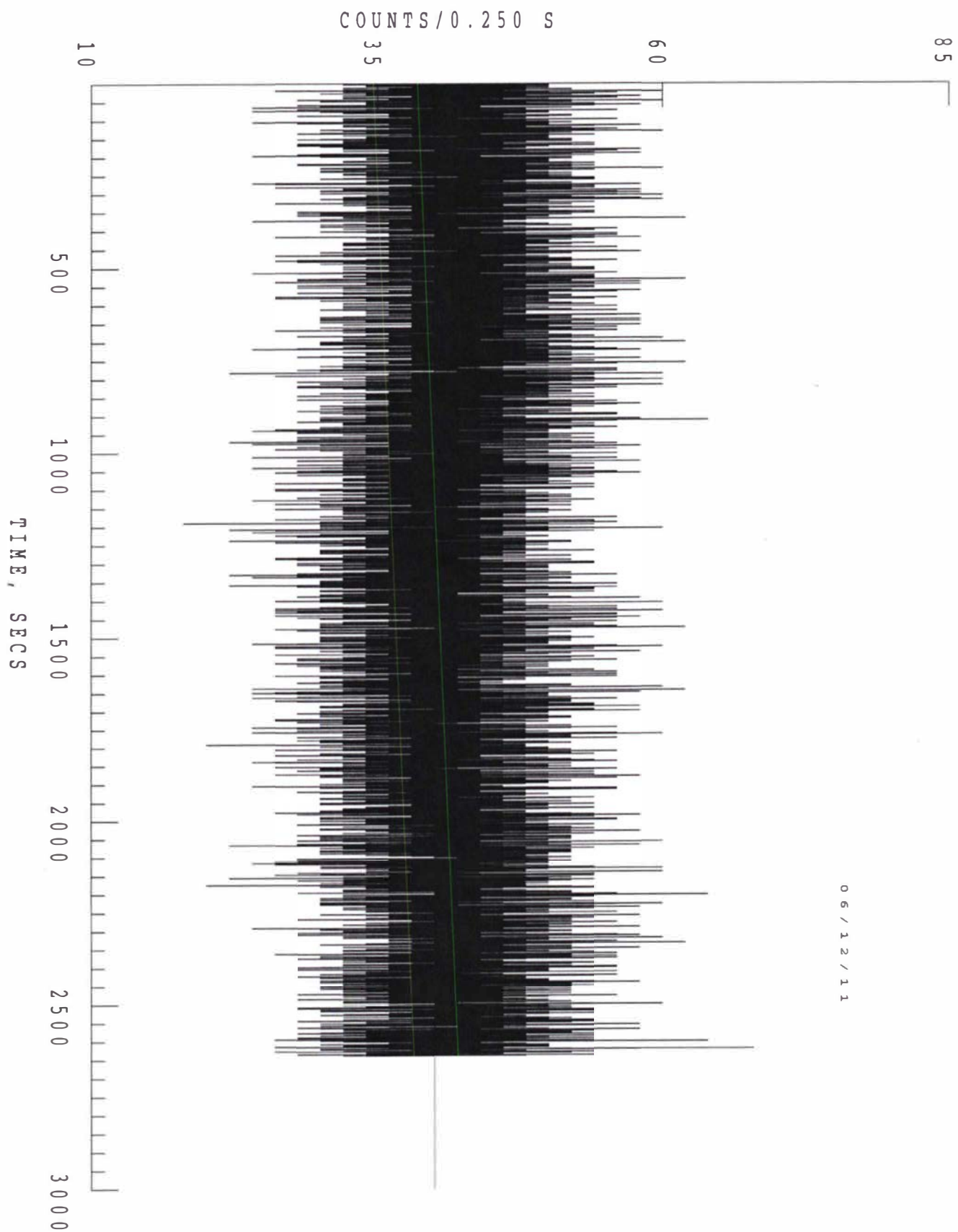
Sample average = 10

MS01

05/09/11

56023.075

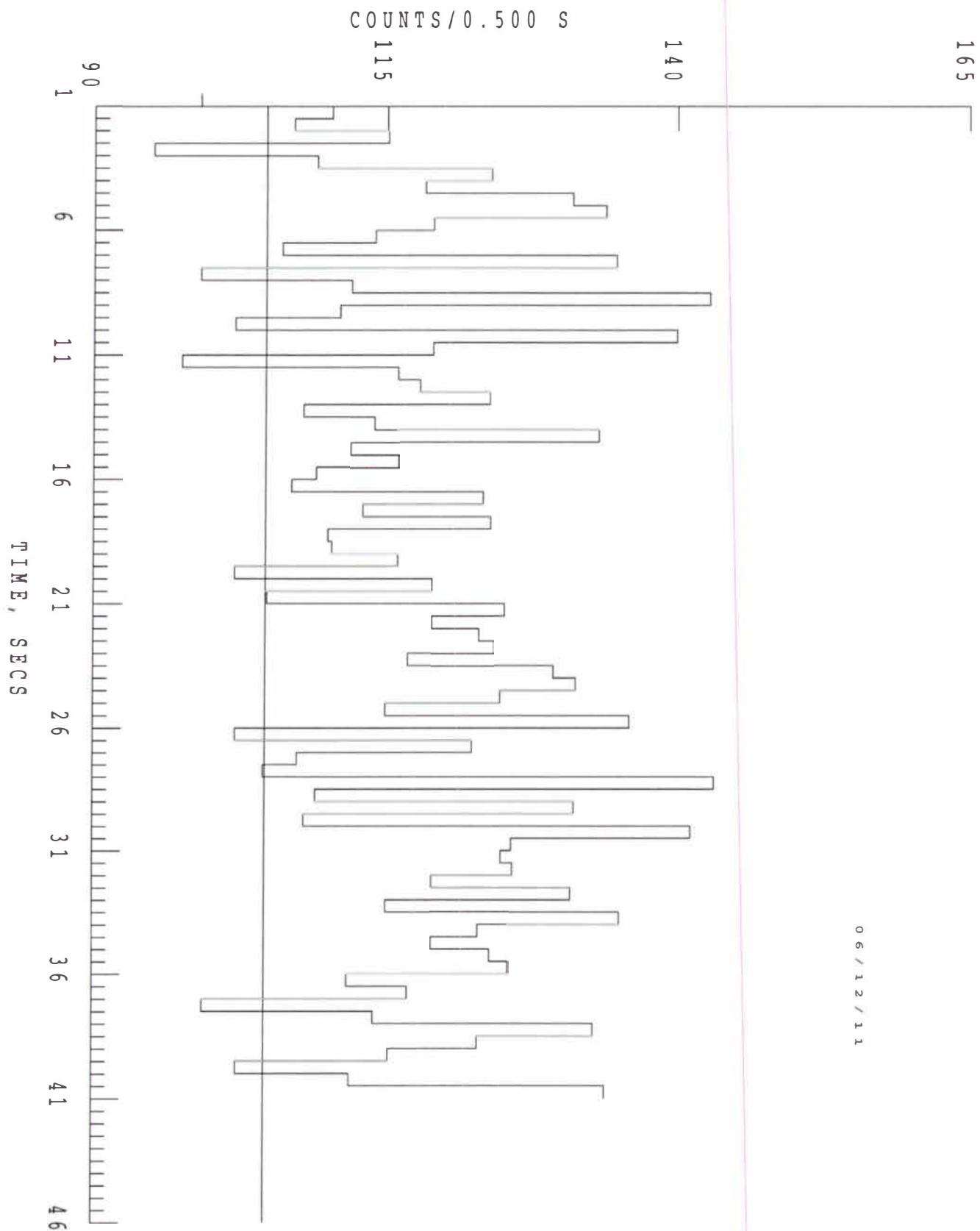
50 - 3000 keV



HESSI

05/09/11 57329.000 (SUZAKU_EI_20110905_57350)

25- 150 keV



06/12/11

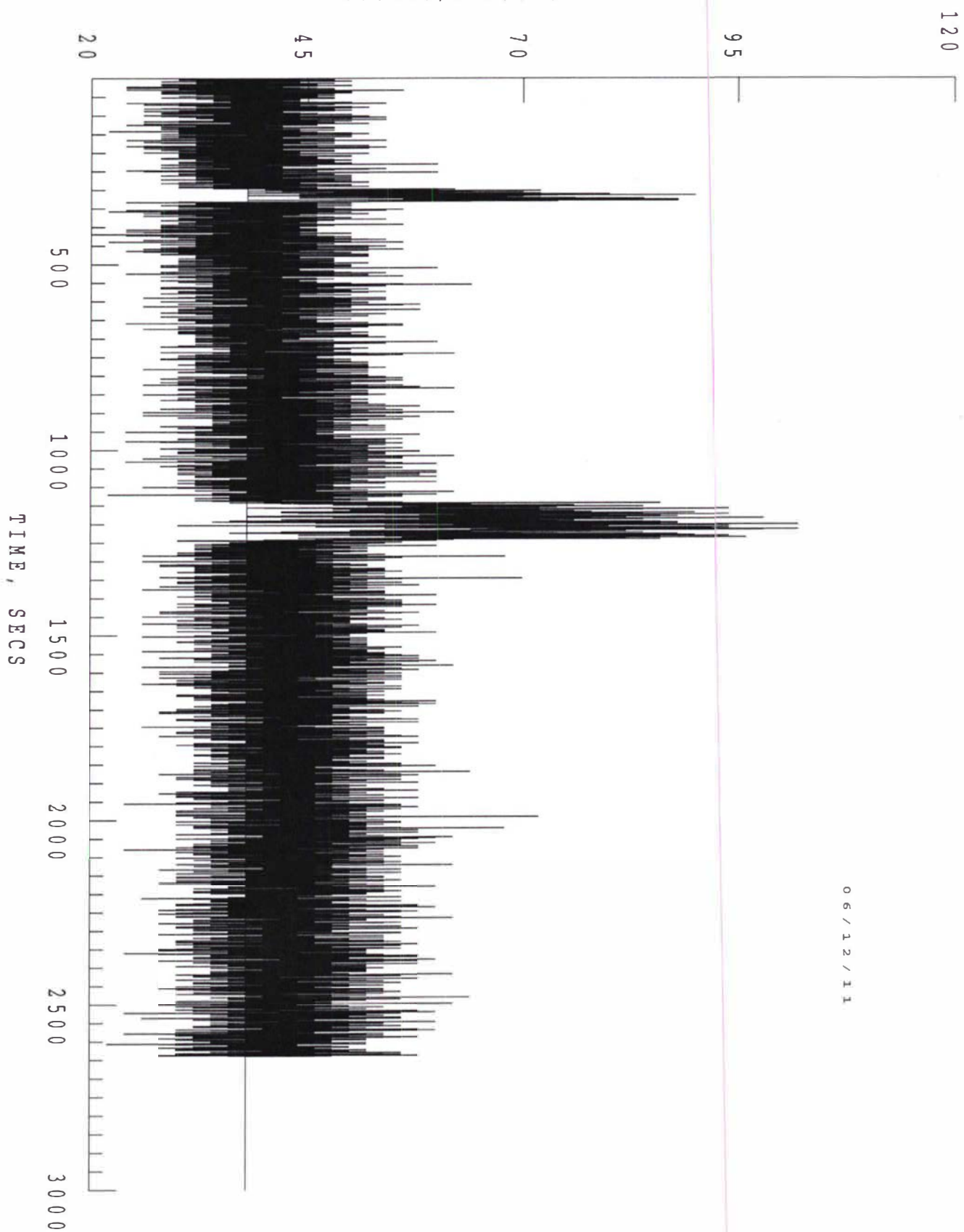
MS01

05/09/11

82422.625

50 - 3000 keV

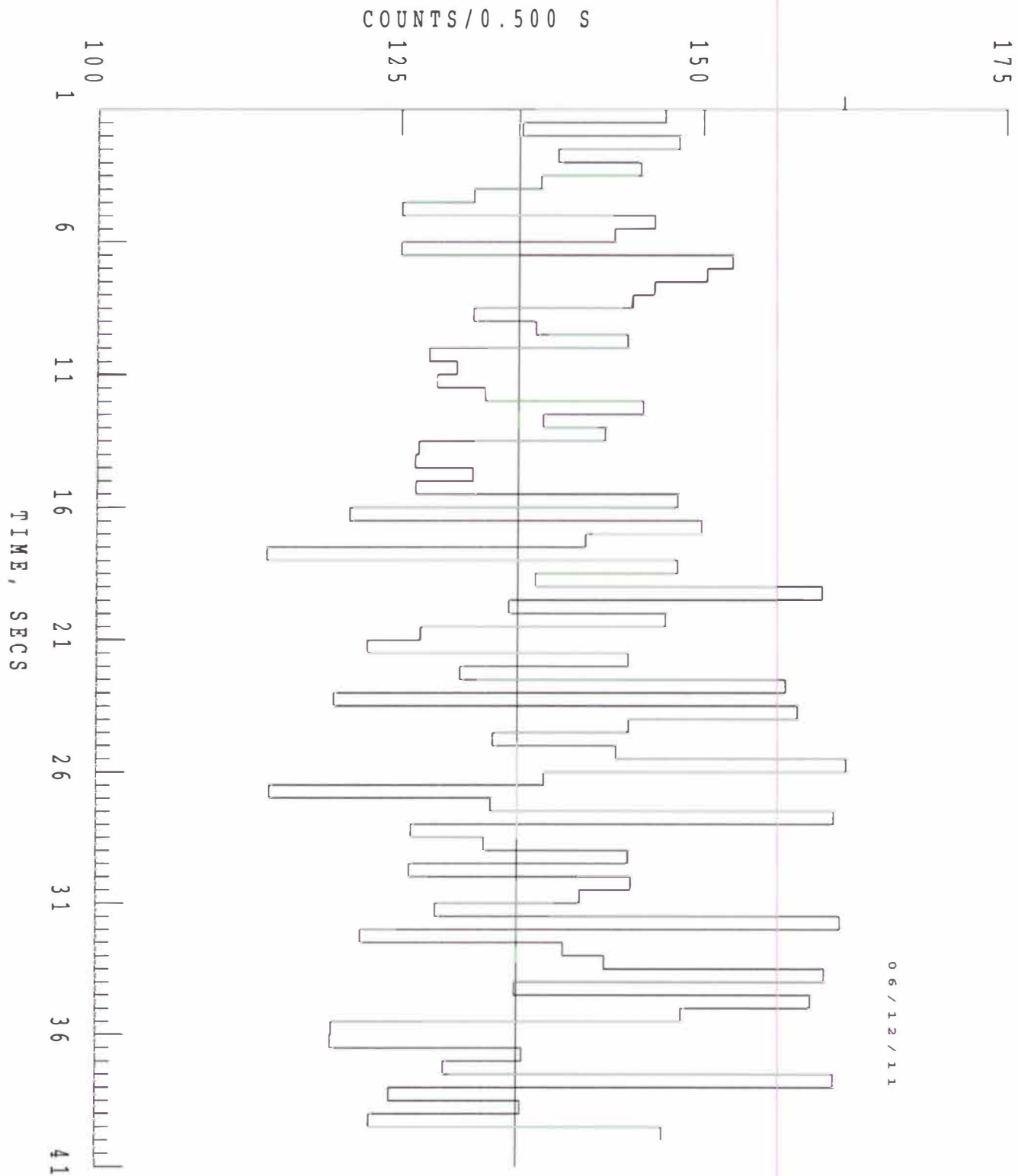
COUNTS/0.250 S

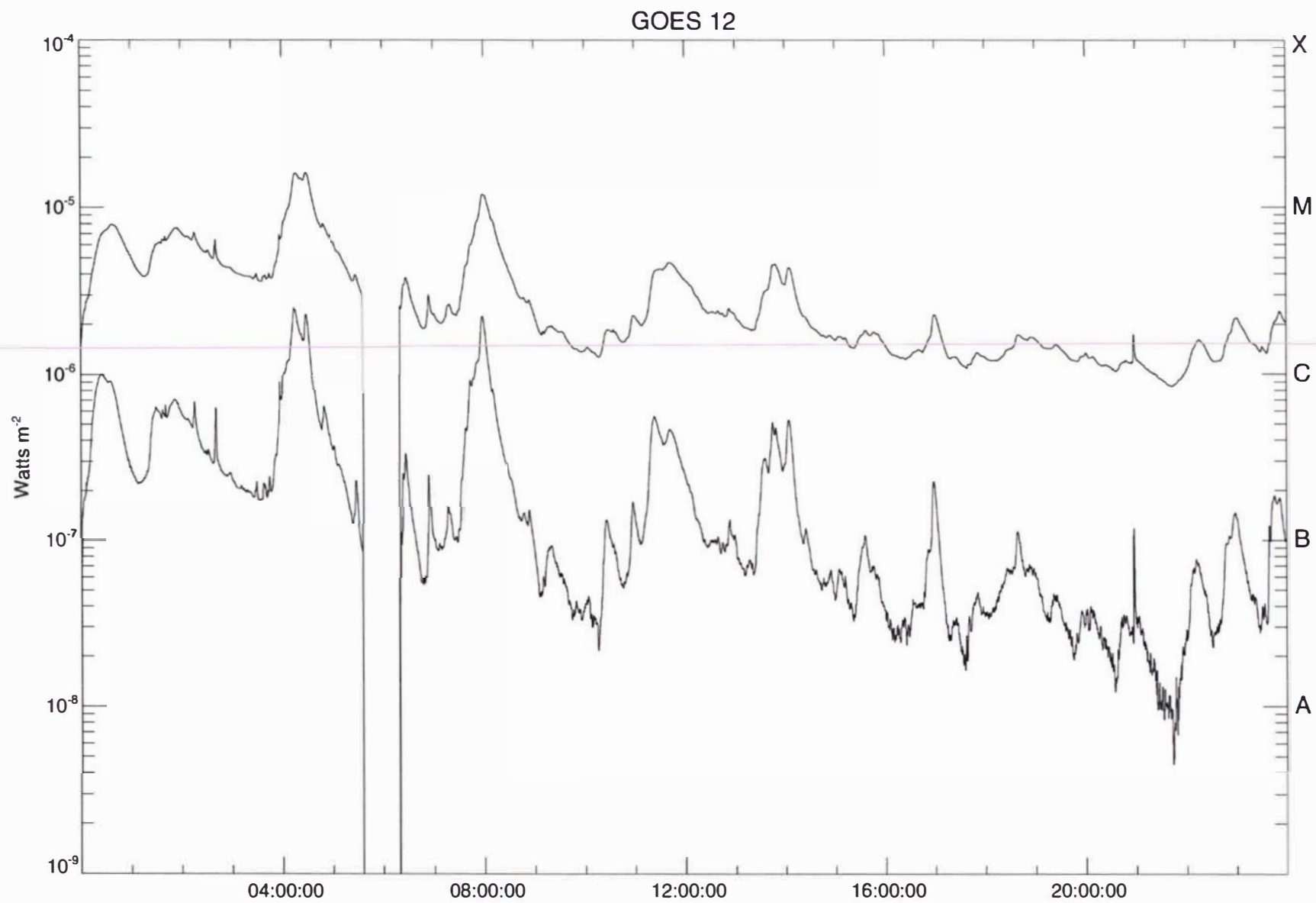


HESSI

05/09/11 83756.000 (SUZAKU_RI_20110905_83776)

25- 150 keV





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

Plot created: 11/09/08, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10



29/11/11

MESSENGER

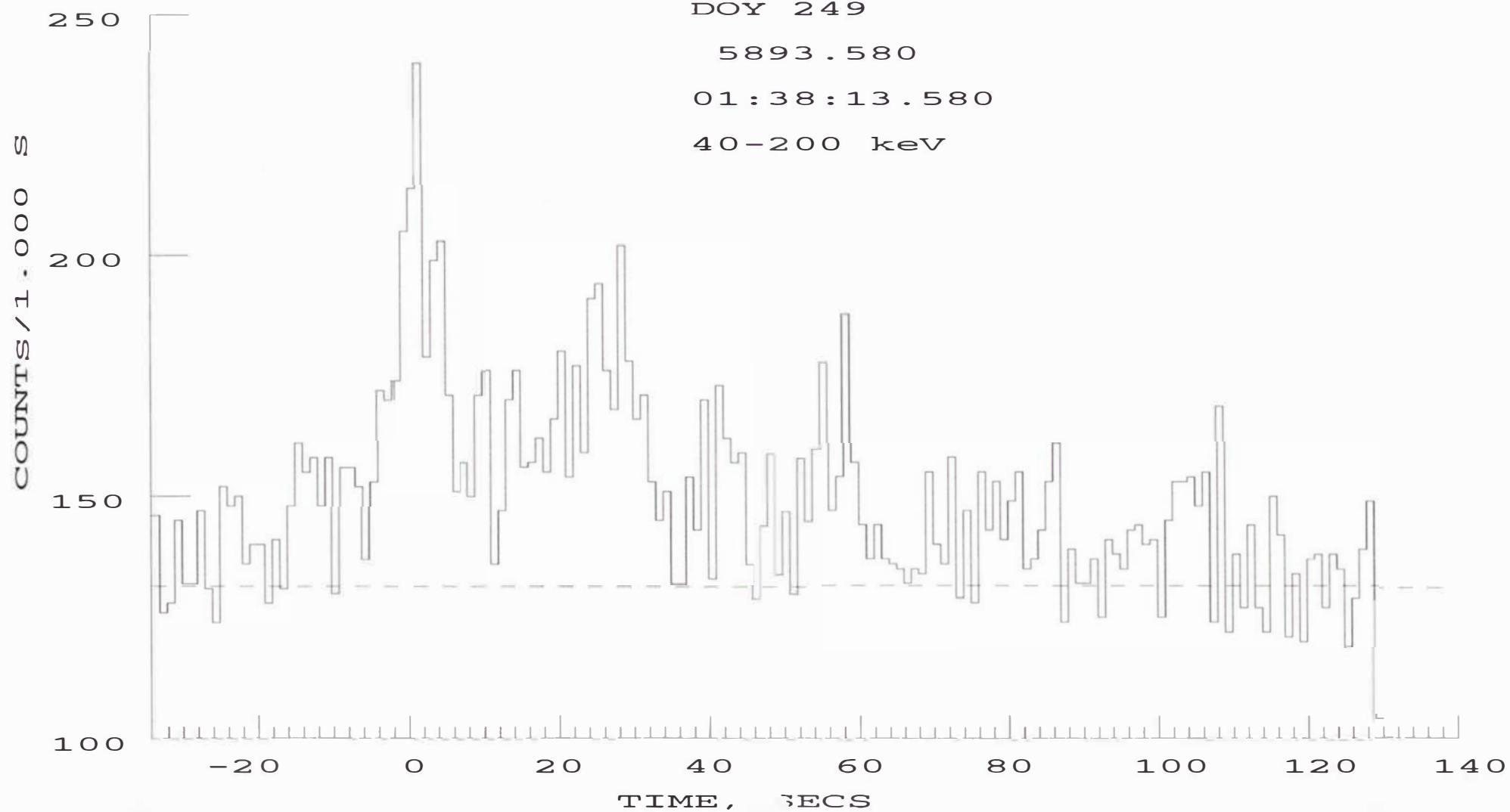
06/09/11

DOY 249

5893.580

01:38:13.580

40-200 keV



29/11/11

MESSENGER

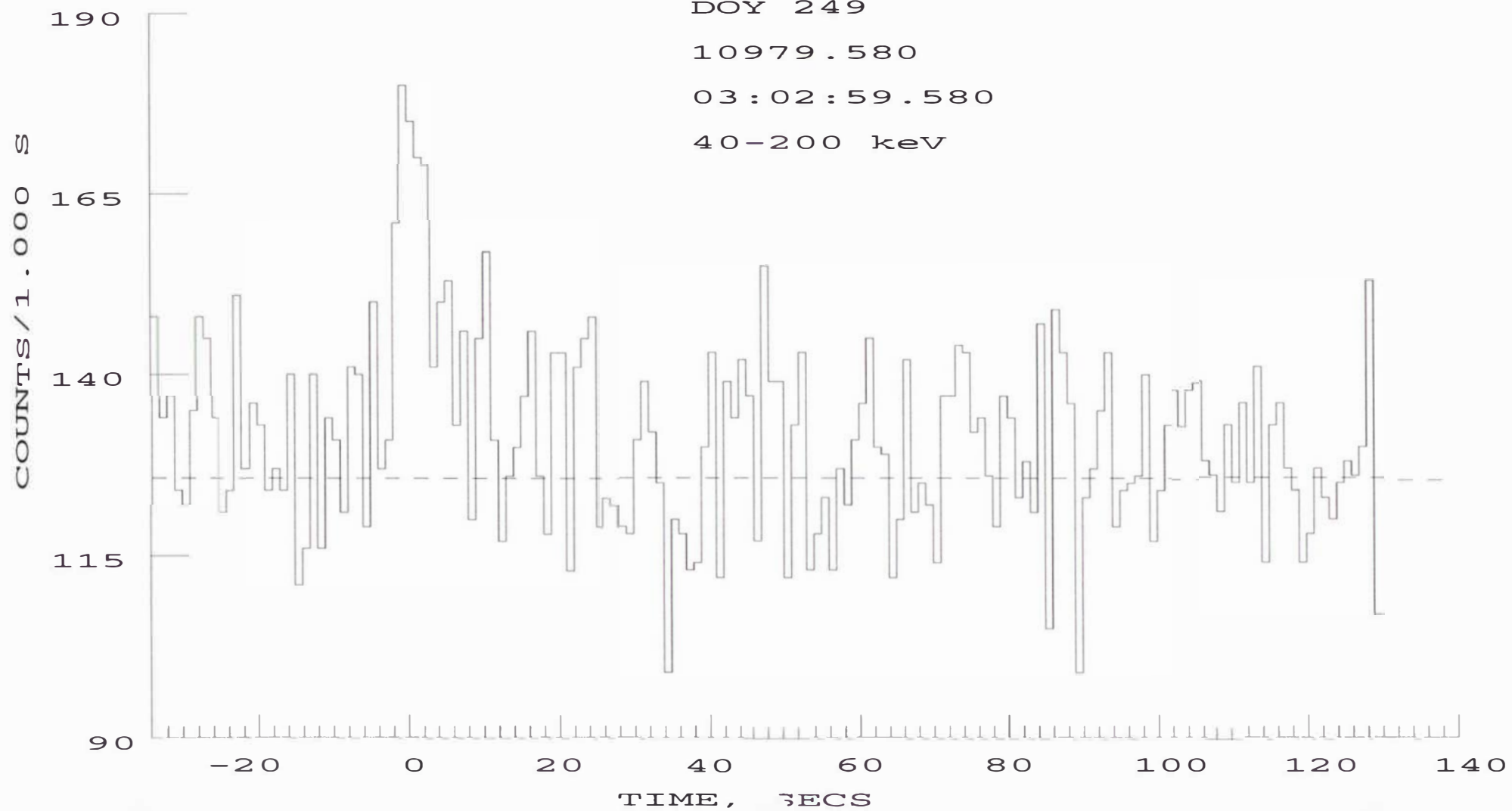
06/09/11

DOY 249

10979.580

03:02:59.580

40-200 keV



Date: Jul 21 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)?
- ☒ 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?

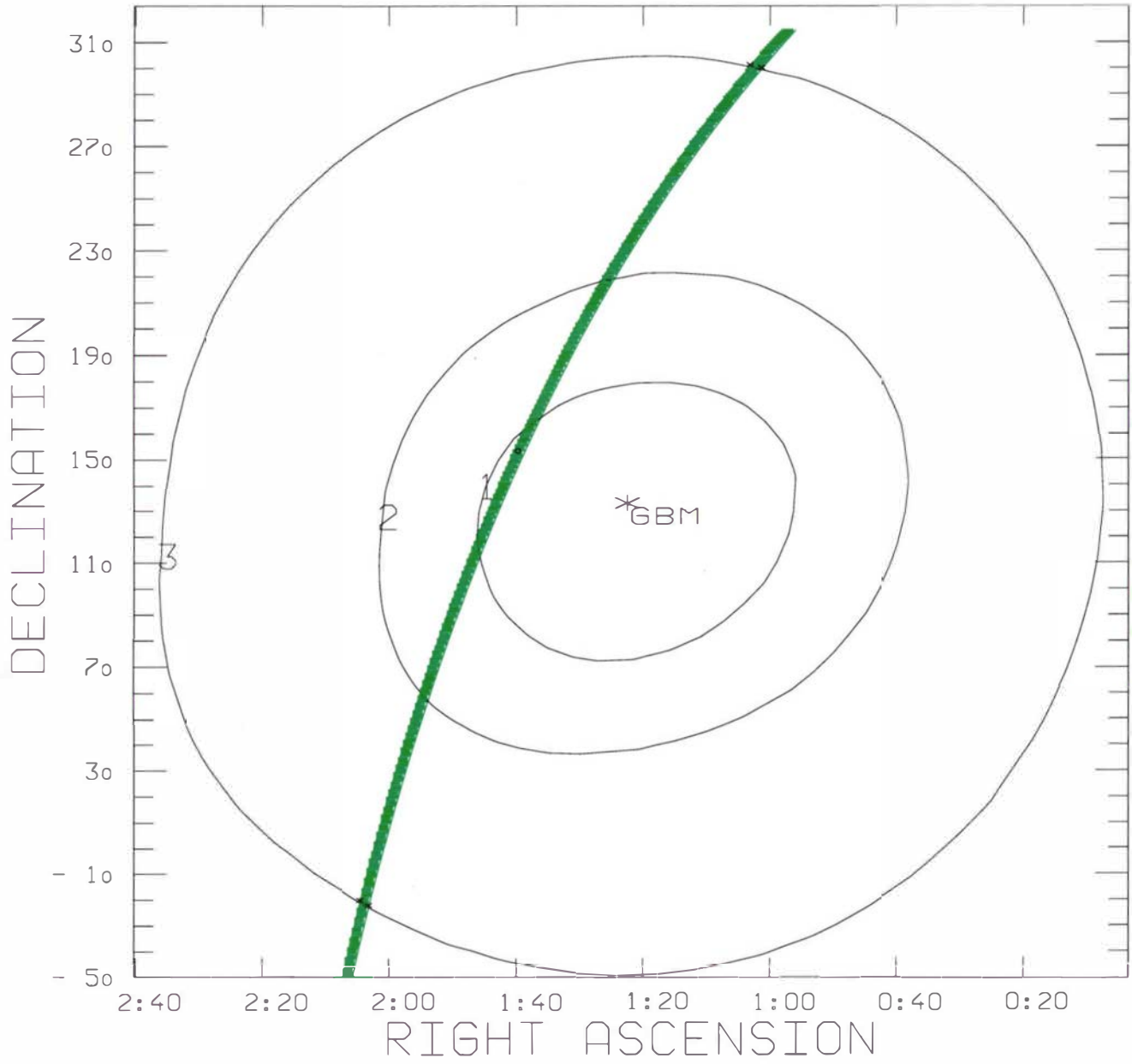
6. For 3 or More Spacecraft events

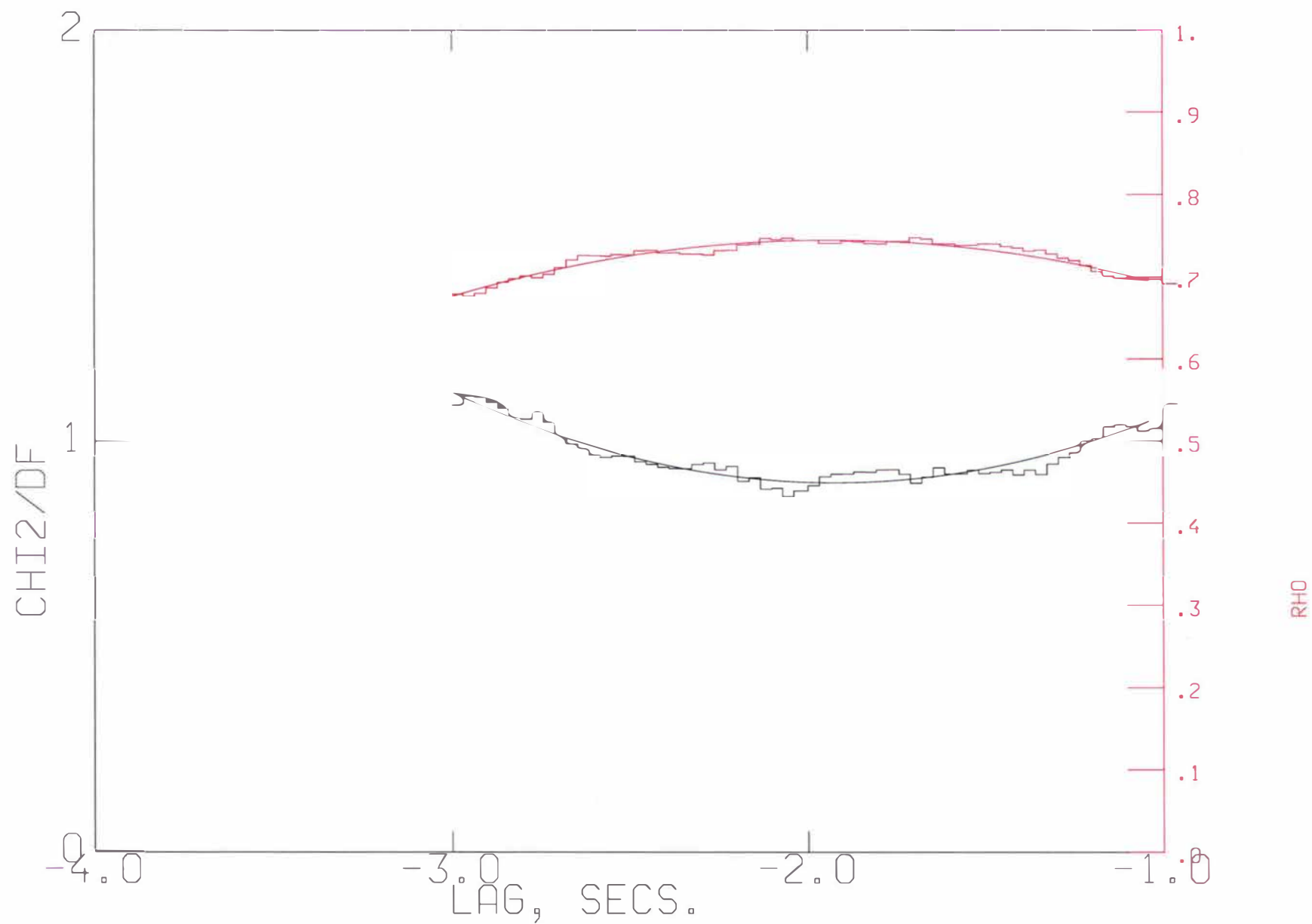
- ☐ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

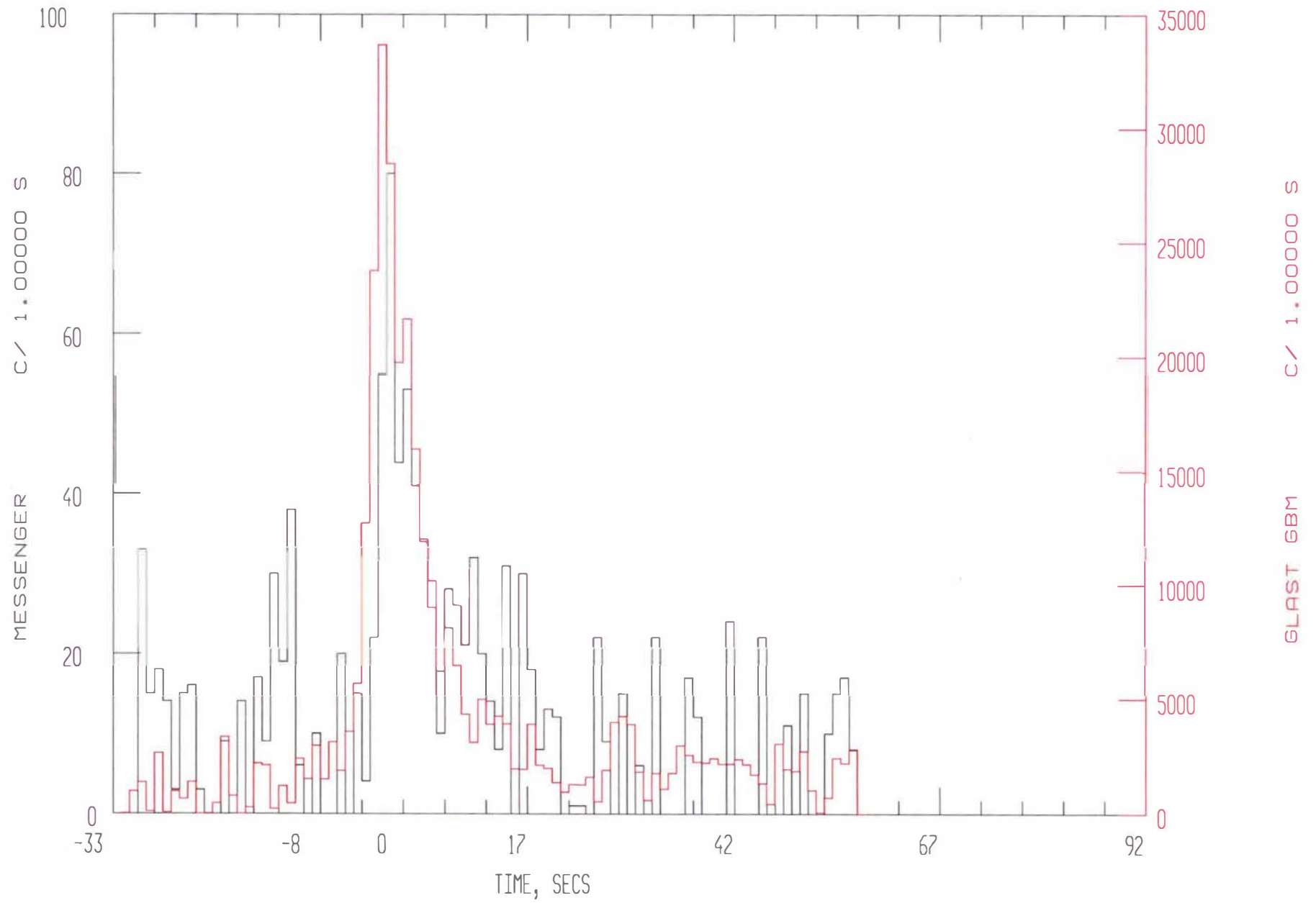
7. For INTEGRAL events

- ☐ 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?







GLAST

06/09/11

26113.419

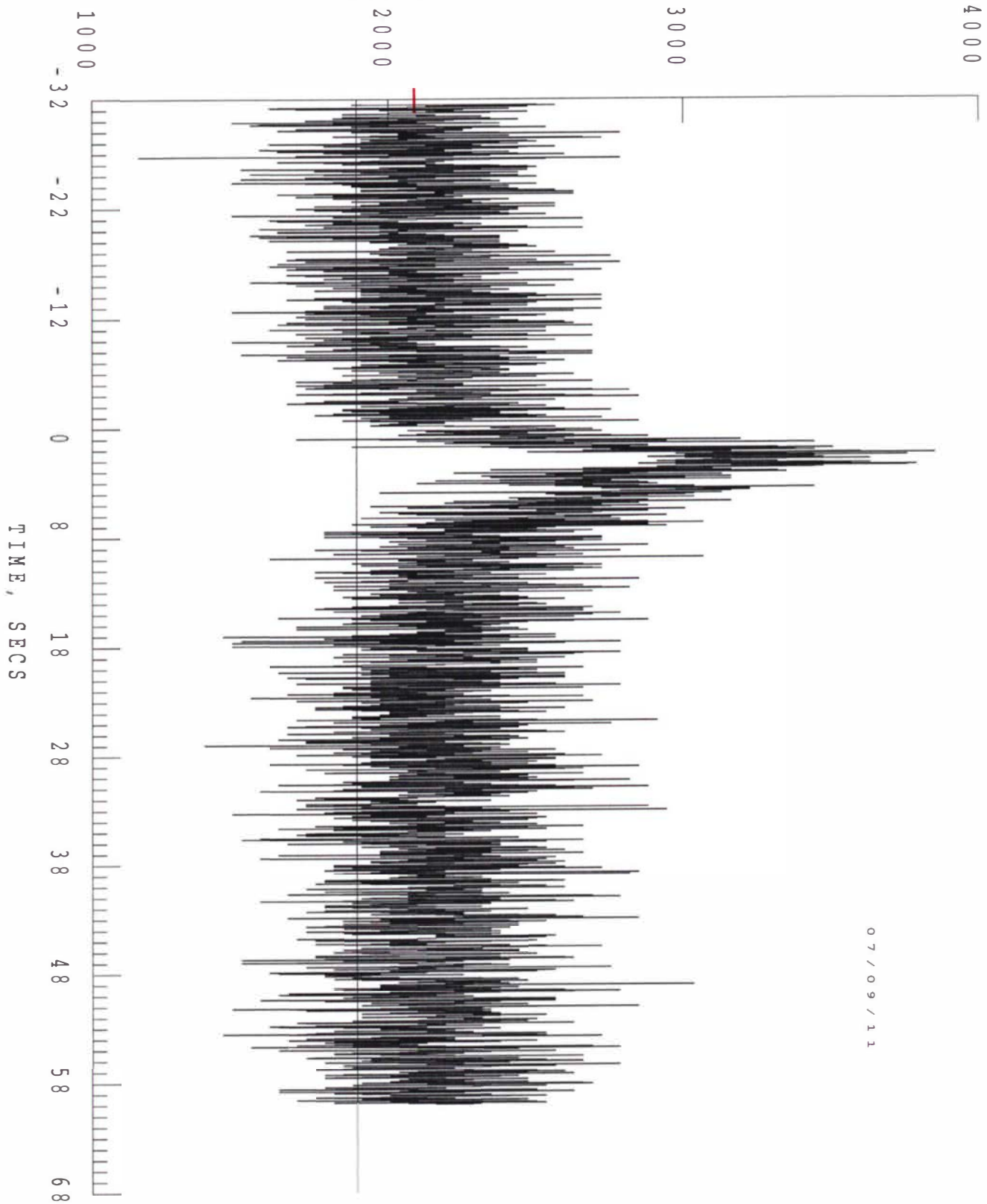
07:15:13

A

26- 293 keV

26.32 17.65 4.03

COUNTS/0.032 S



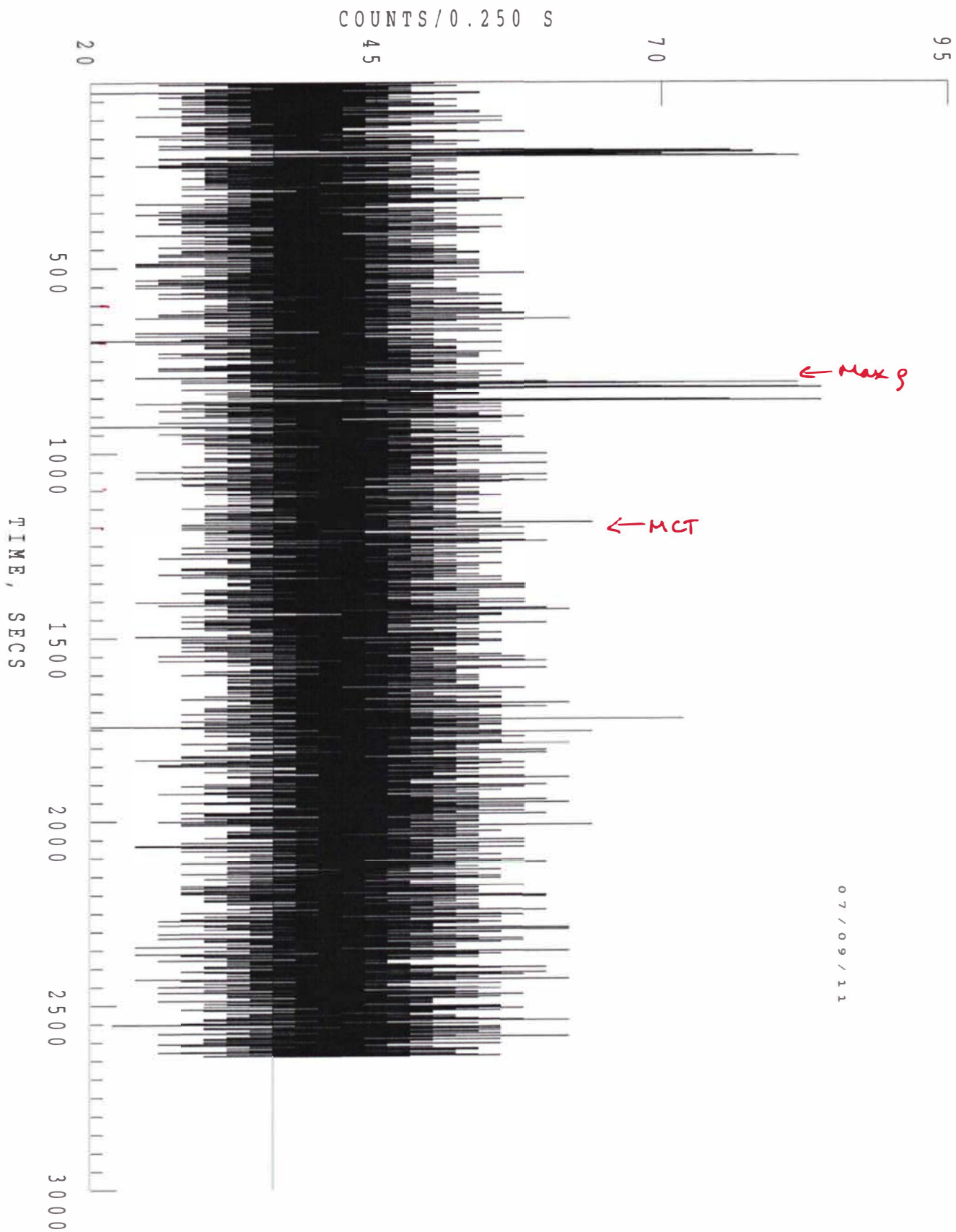
MS01

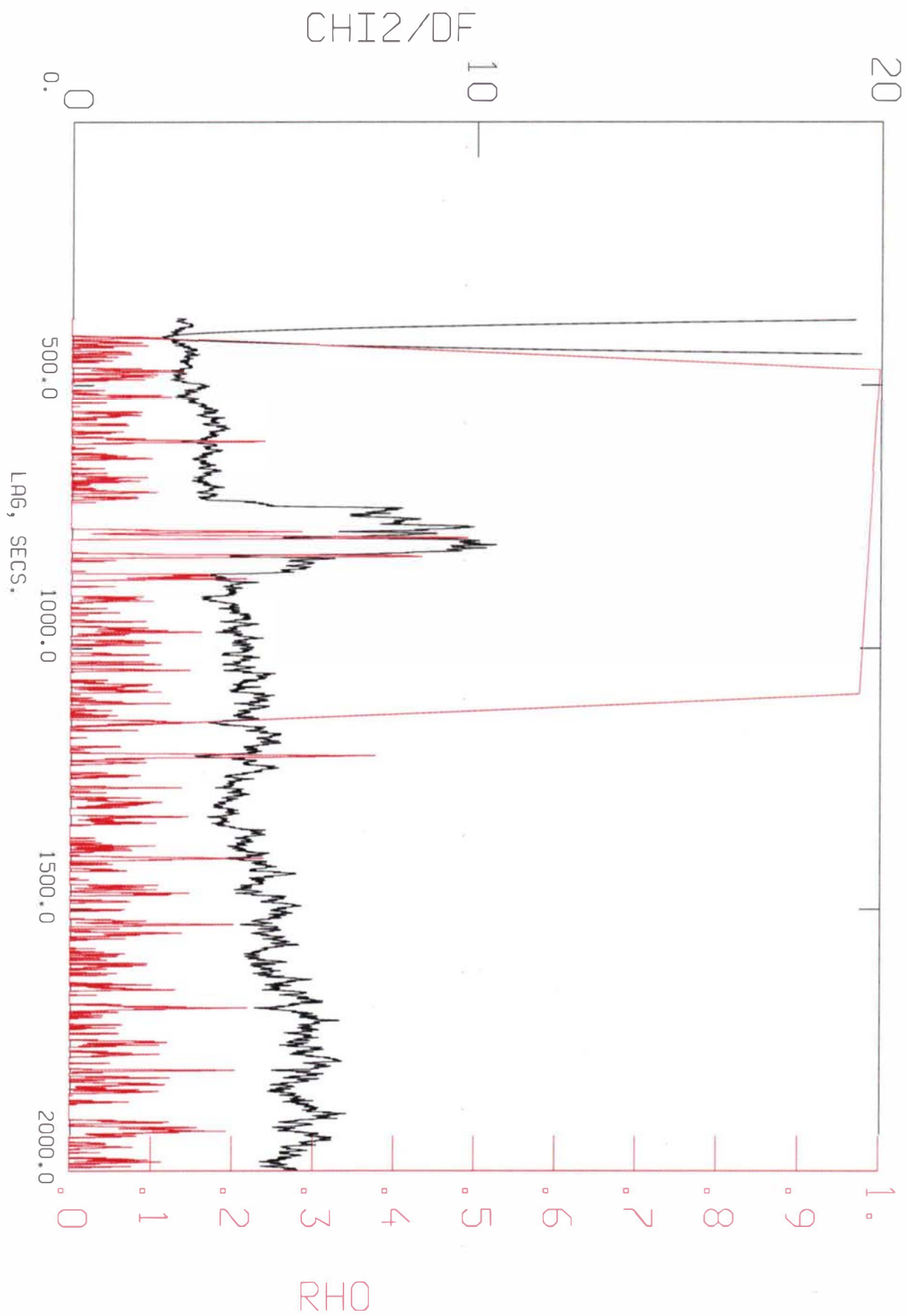
06/09/11

24762.281

A

50 - 3000 keV



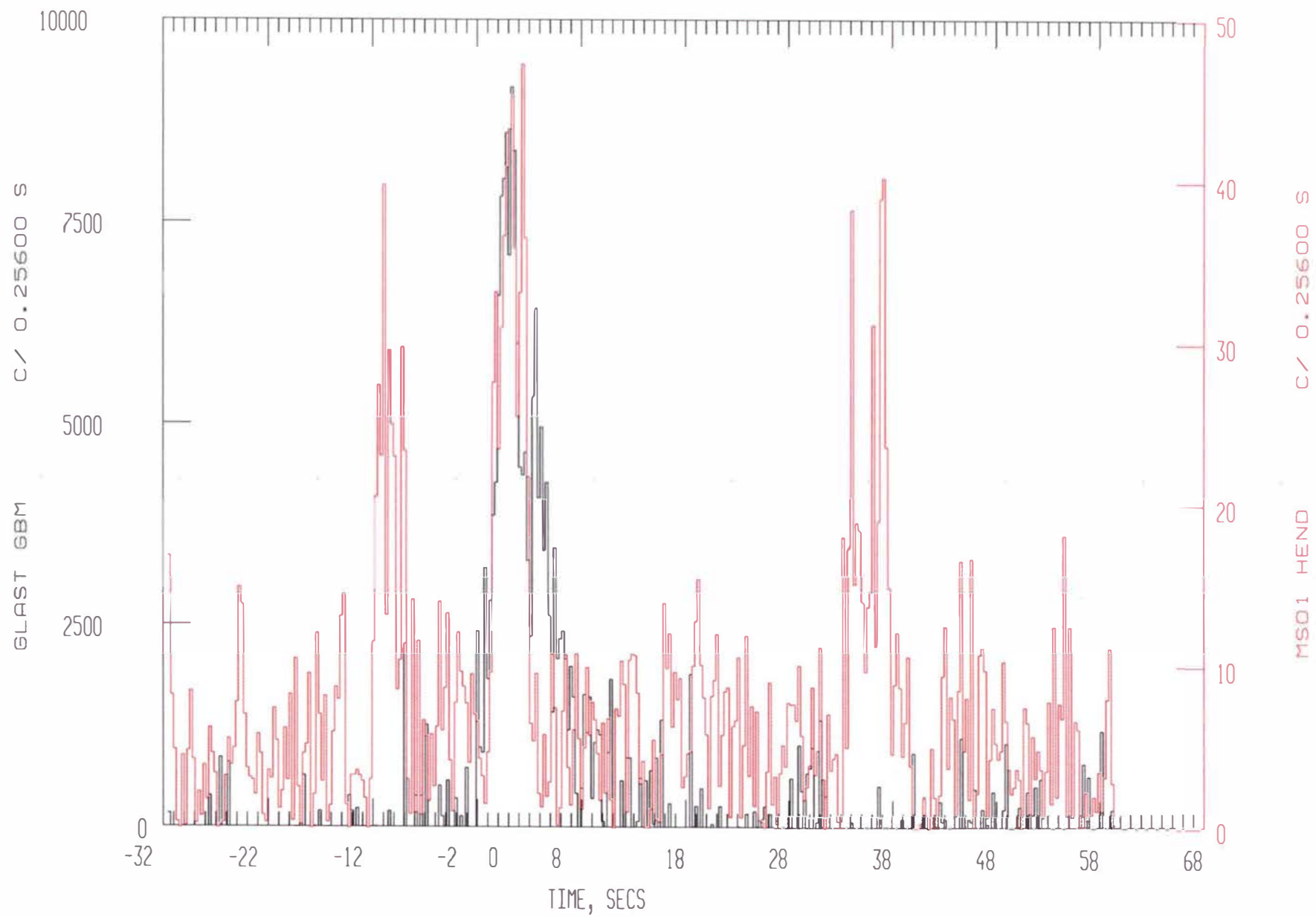


A

GLAST GBM -MS01 HEND CORRELATION

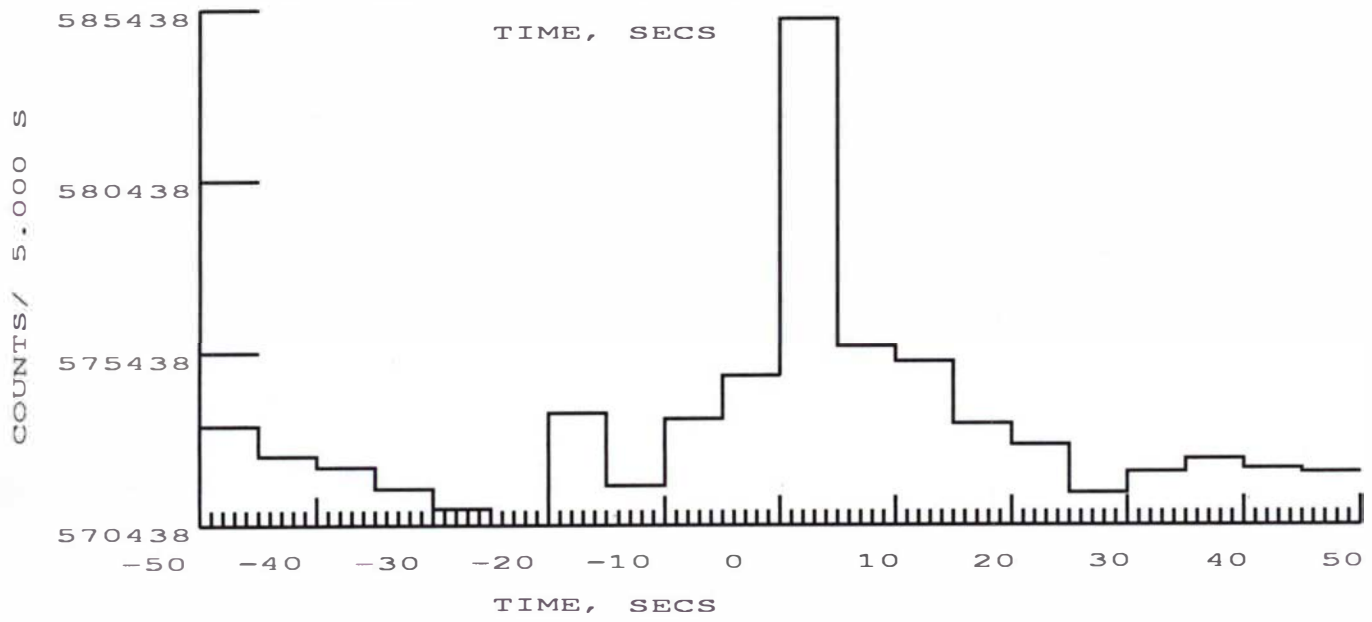
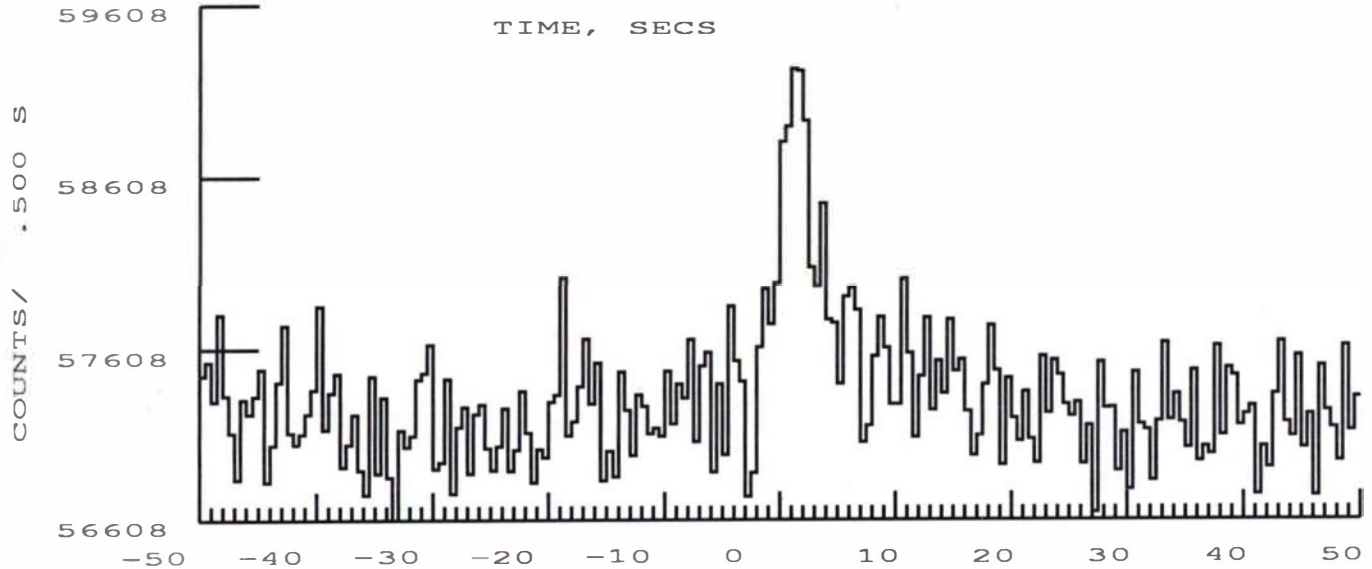
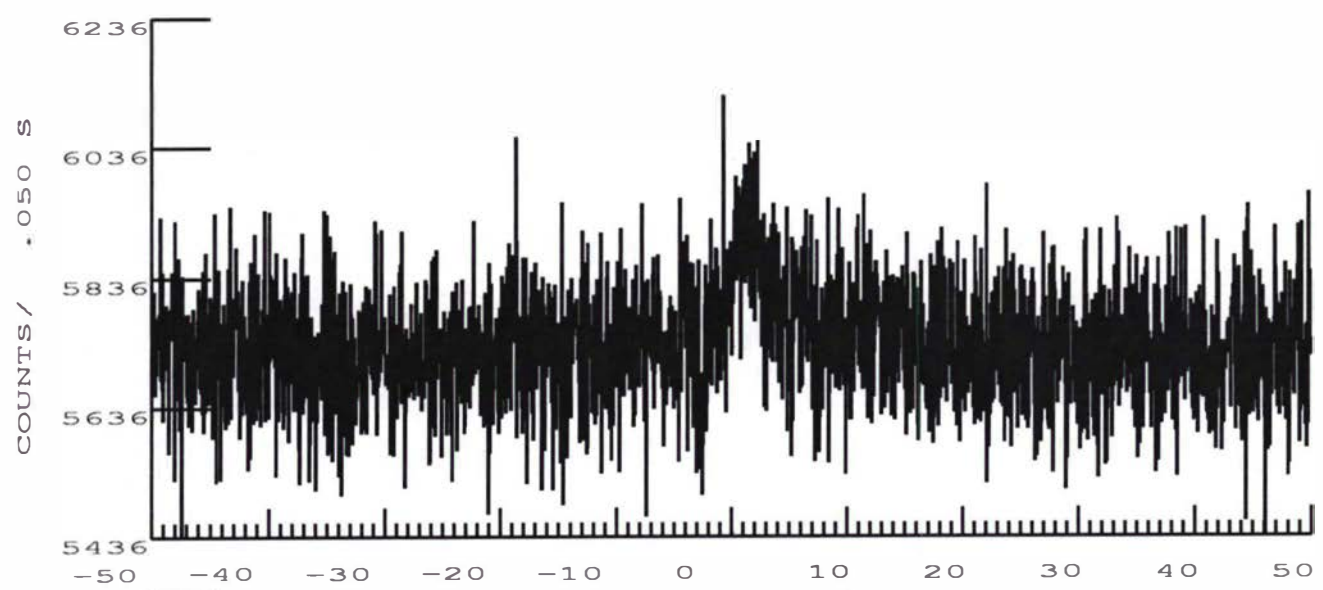
06/09/11 26113.419

29/11/11



A

INTEGRAL 06/09/11 26113.000 07:15:13.0 20/01/14

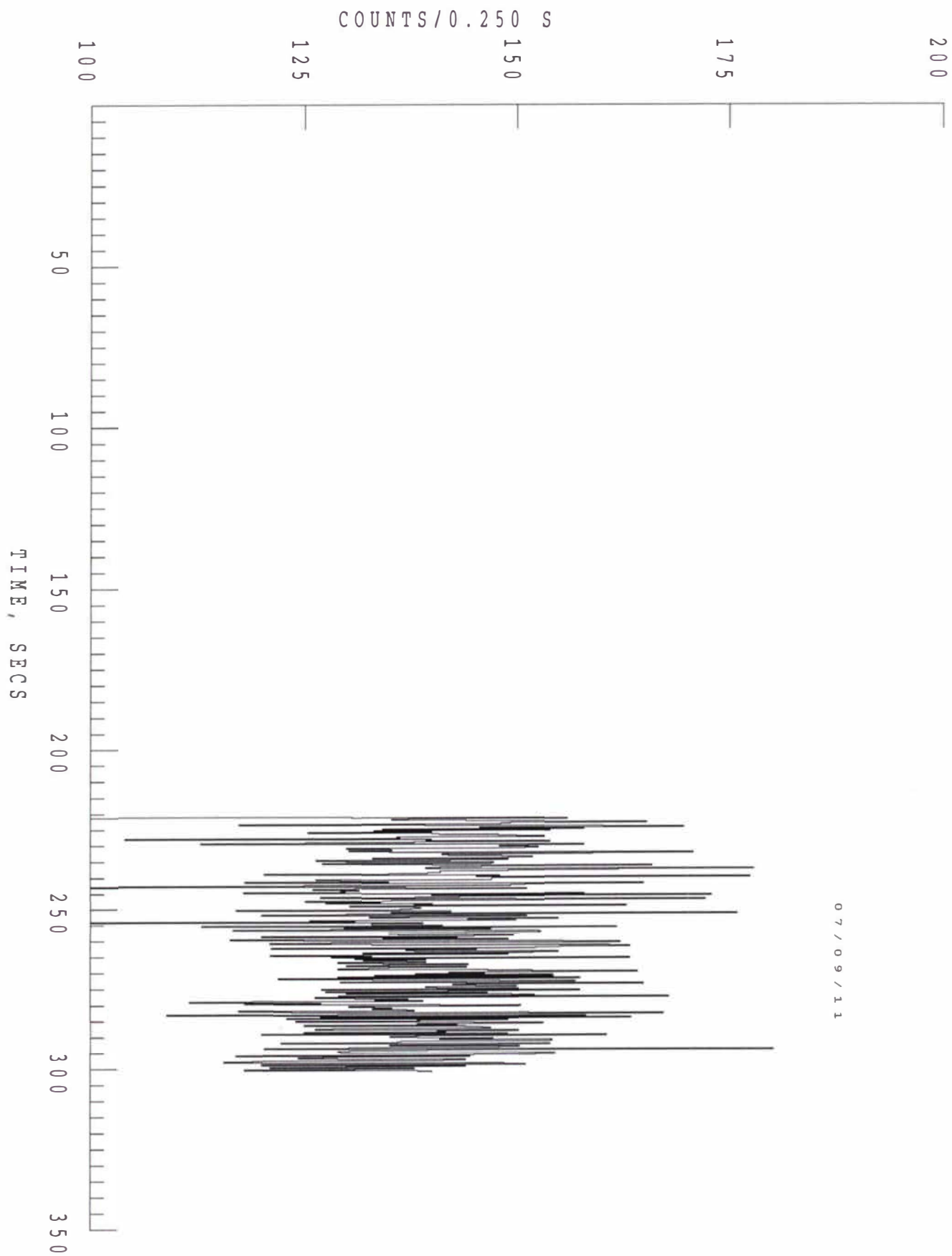


A

HESSI

06/09/11 25962.000 (GLAST_20110906_26113)

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110906_0715

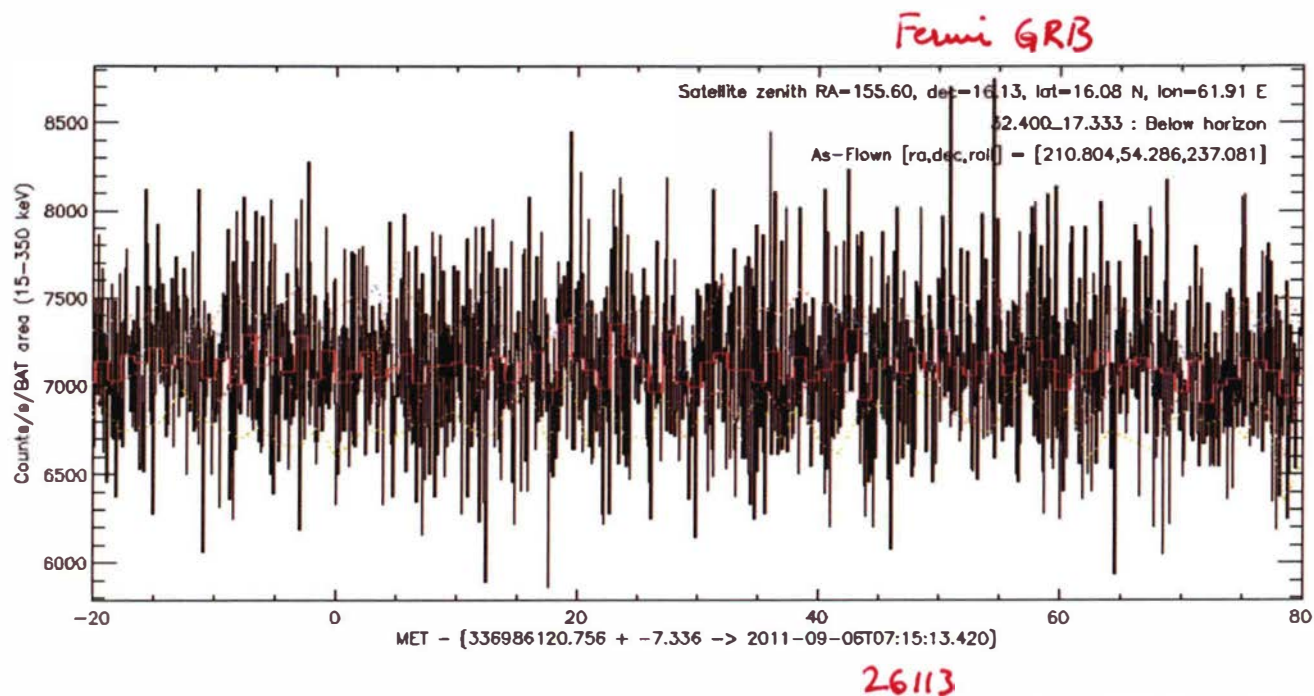
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 6 Sep 2011 07:37:32 -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/110906_0715.png



```
% /usr/local/bin/swinfo -o 336986120.756 -s 26.950 14.460
Time(MET + UTCF -> UT): 336986120.756 + -7.336 -> 2011-09-06T07:15:13.420
Swift Zenith(RA,dec): 155.60, 16.13
Swift Location(lon,lat,alt): 61.91 E, 16.08 N, 581 km
Obs Sequence Number: 00032081024
Obs Target Name: PTF11kly
Obs Date and Times: 2011-09-06 07:03:54 - 07:23:49
Obs Pointing(ra,dec,roll): 210.804, 54.286, 237.08
26.950_14.460_imageloc (boresight_dist, angle): (111, 37)
26.950_14.460_exposure (cm^2 cos adjusted): 0
26.950_14.460_altitude: -7 (down)
```

```
% /usr/local/bin/swinfo -o 336986120.756 -s 28.100 20.733
Time(MET + UTCF -> UT): 336986120.756 + -7.336 -> 2011-09-06T07:15:13.420
Swift Zenith(RA,dec): 155.60, 16.13
Swift Location(lon,lat,alt): 61.91 E, 16.08 N, 581 km
Obs Sequence Number: 00032081024
Obs Target Name: PTF11kly
Obs Date and Times: 2011-09-06 07:03:54 - 07:23:49
Obs Pointing(ra,dec,roll): 210.804, 54.286, 237.08
28.100_20.733_imageloc (boresight_dist, angle): (105, 36)
28.100_20.733_exposure (cm^2 cos adjusted): 0
28.100_20.733_altitude: -3 (down)
```

```
% /usr/local/bin/swinfo -o 336986120.756 -s 32.400 17.333
Time(MET + UTCF -> UT): 336986120.756 + -7.336 -> 2011-09-06T07:15:13.420
Swift Zenith(RA,dec): 155.60, 16.13
Swift Location(lon,lat,alt): 61.91 E, 16.08 N, 581 km
Obs Sequence Number: 00032081024
Obs Target Name: PTF11kly
Obs Date and Times: 2011-09-06 07:03:54 - 07:23:49
Obs Pointing(ra,dec,roll): 210.804, 54.286, 237.08
32.400_17.333_imageloc (boresight_dist, angle): (108, 31)
32.400_17.333_exposure (cm^2 cos adjusted): 0
32.400_17.333_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 mailing list
Ipn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/ipn>

/tmp/110906_0715_bat64ms_ipn	Content-Type:	application/octet-stream
	Content-Encoding:	base64

/tmp/110906_0715.png

/tmp/110906_0715.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

29/11/11

MESSENGER

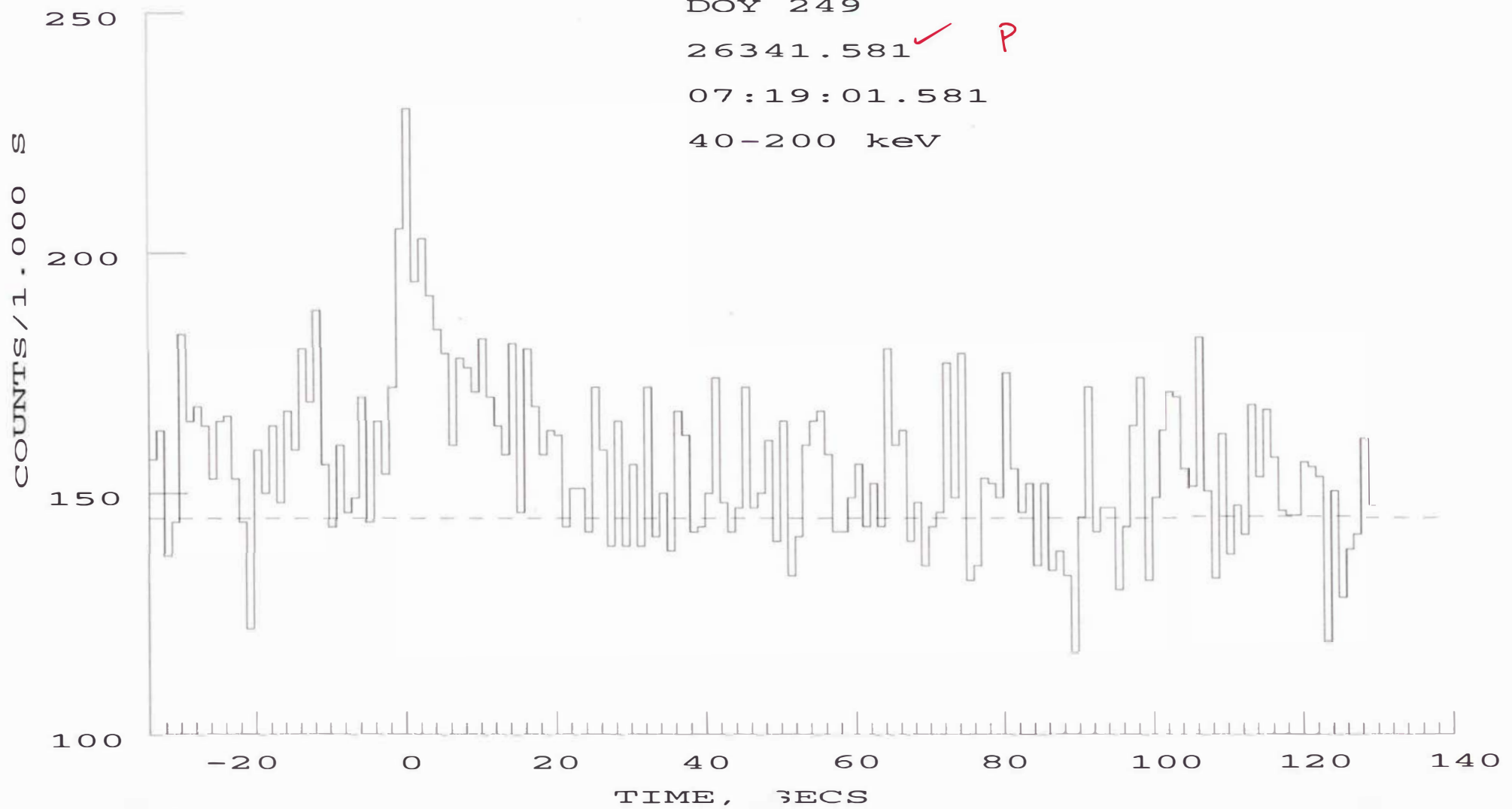
06/09/11

DOY 249

26341.581 ✓ P

07:19:01.581

40-200 keV



From vxw@capella2.gsfc.nasa.gov Tue Sep 6 09:13:52 2011
 X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
 Date: Tue, 6 Sep 2011 12:15:24 -0400
 From: Bacodine <vxw@capella2.gsfc.nasa.gov>
 To: khurley@ssl.berkeley.edu
 Subject: GCN/SWIFT BAT SLEW POSITION
 X-Ucb-Scan-Signature: d38d9670270d316efc4c381bb6e045ad46bd6ff7
 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
 NOTICE_DATE: Tue 06 Sep 11 16:15:23 UT
 NOTICE_TYPE: Swift-BAT Slew GRB Position
 ID_NUM: 607
 GRB_RA: 296.890d {+19h 47m 34s} (J2000),
 297.068d {+19h 48m 16s} (current),
 296.126d {+19h 44m 30s} (1950)
 GRB_DEC: -26.210d {-26d 12' 35"} (J2000),
 -26.181d {-26d 10' 49"} (current),
 -26.334d {-26d 20' 02"} (1950)
 GRB_ERROR: 3.75 [arcmin radius, statistical only]
 GRB_INTEN: 214306 [cnts] Image_Peak=0 [image_cnts]
 TRIGGER_DUR: 13.800 [sec]
 TRIGGER_INDEX: 9 Criteria: (S(15-50) OR H(50-150)) > 4.0 sigma AND B(15-
 ENERGY_RANGE: 15-150 keV
 BKG_INTEN: 0 [cnts]
 BKG_TIME: 0.00 SOD {00:00:00.00} UT
 BKG_DUR: 0 [sec]
 GRB_DATE: 15810 TJD; 249 DOY; 11/09/06
 GRB_TIME: 44713.48 SOD {12:25:13.48} UT
 OLN_STATUS: 0x4011
 RATE_SIGNIF: 0.00 [sigma]
 IMAGE_SIGNIF: 5.53 [sigma]
 SUN_POSTN: 165.01d {+11h 00m 01s} +6.40d {+06d 23' 56"}
 SUN_DIST: 130.29 [deg] Sun_angle= -8.8 [hr] (East of Sun)
 MOON_POSTN: 278.50d {+18h 33m 59s} -21.67d {-21d 40' 14"}
 MOON_DIST: 17.55 [deg]
 MOON_ILLUM: 71 [%]
 GAL_COORDS: 14.27, -23.26 [deg] galactic lon,lat of the burst (or transient
 ECL_COORDS: 294.04, -4.99 [deg] ecliptic lon,lat of the burst (or transient
 COMMENTS: SWIFT-BAT Slew GRB Coordinates.
 COMMENTS: A point_source was found.
 COMMENTS: This does not match any source in the ground catalog.
 COMMENTS: This is probably a GRB.
 COMMENTS: High confidence of reality (silver-plated).
 COMMENTS: This Notice was ground-processed from flight-data.
 COMMENTS:

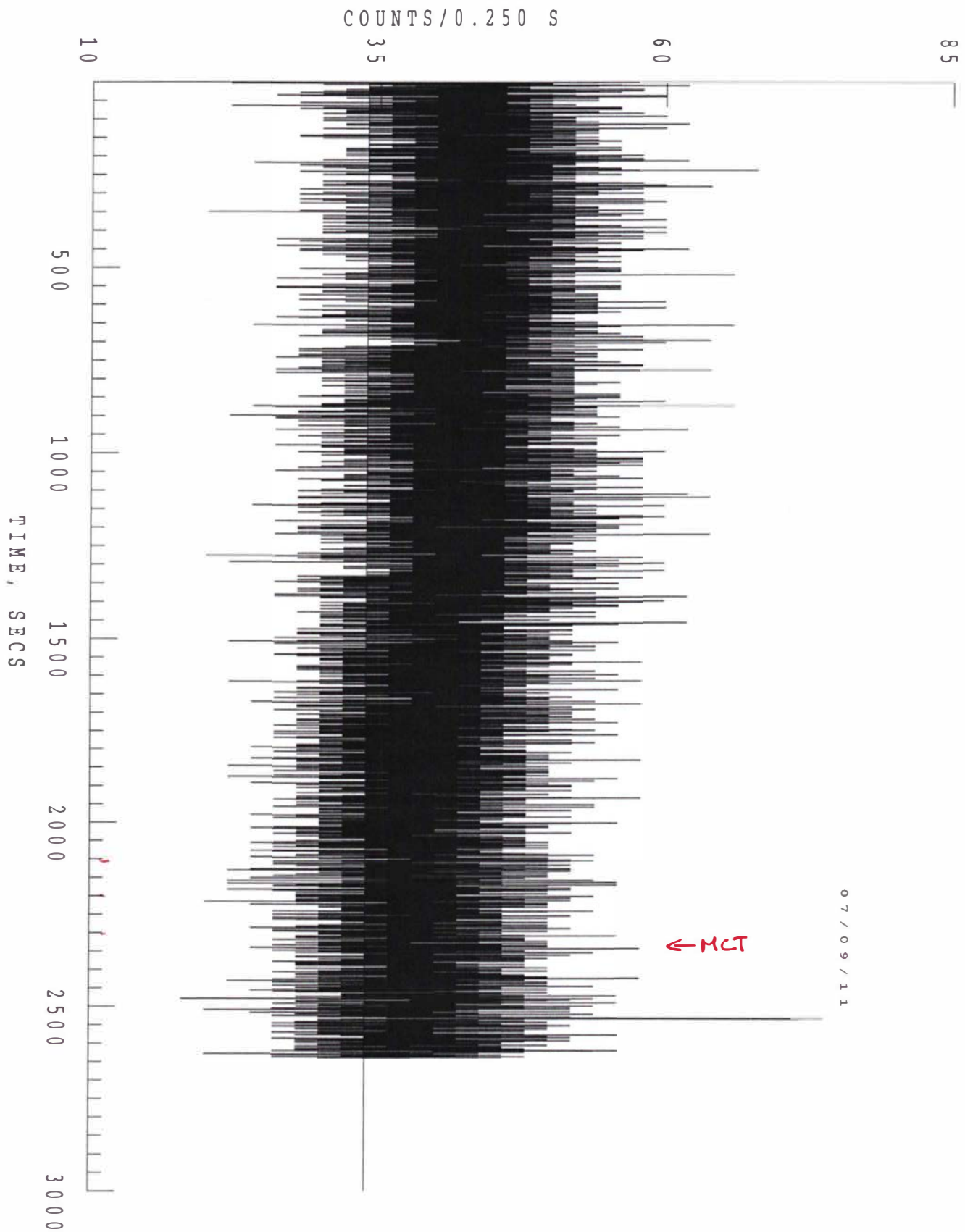
MS01

06/09/11

43361.969

B

50 - 3000 keV

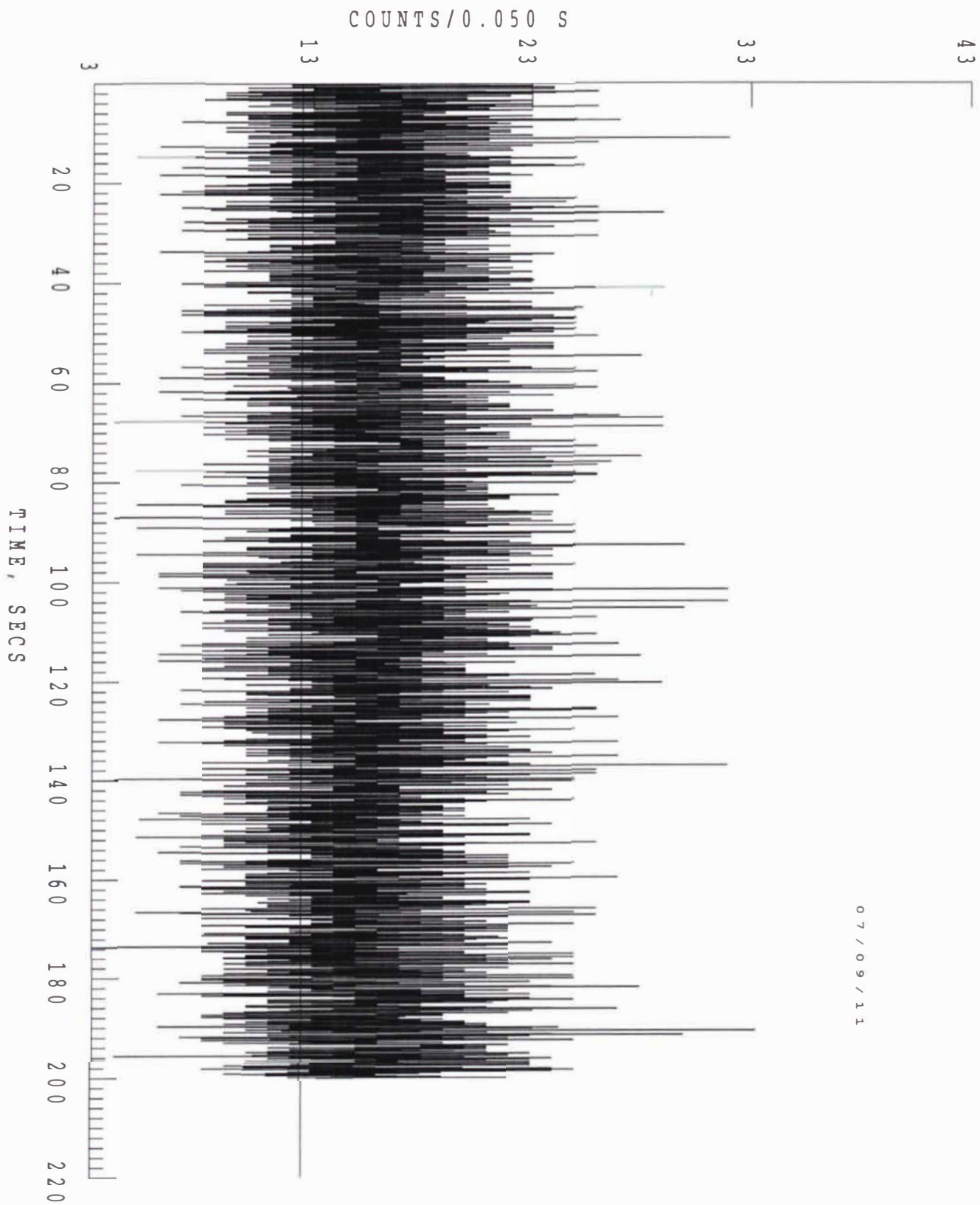


HESSI

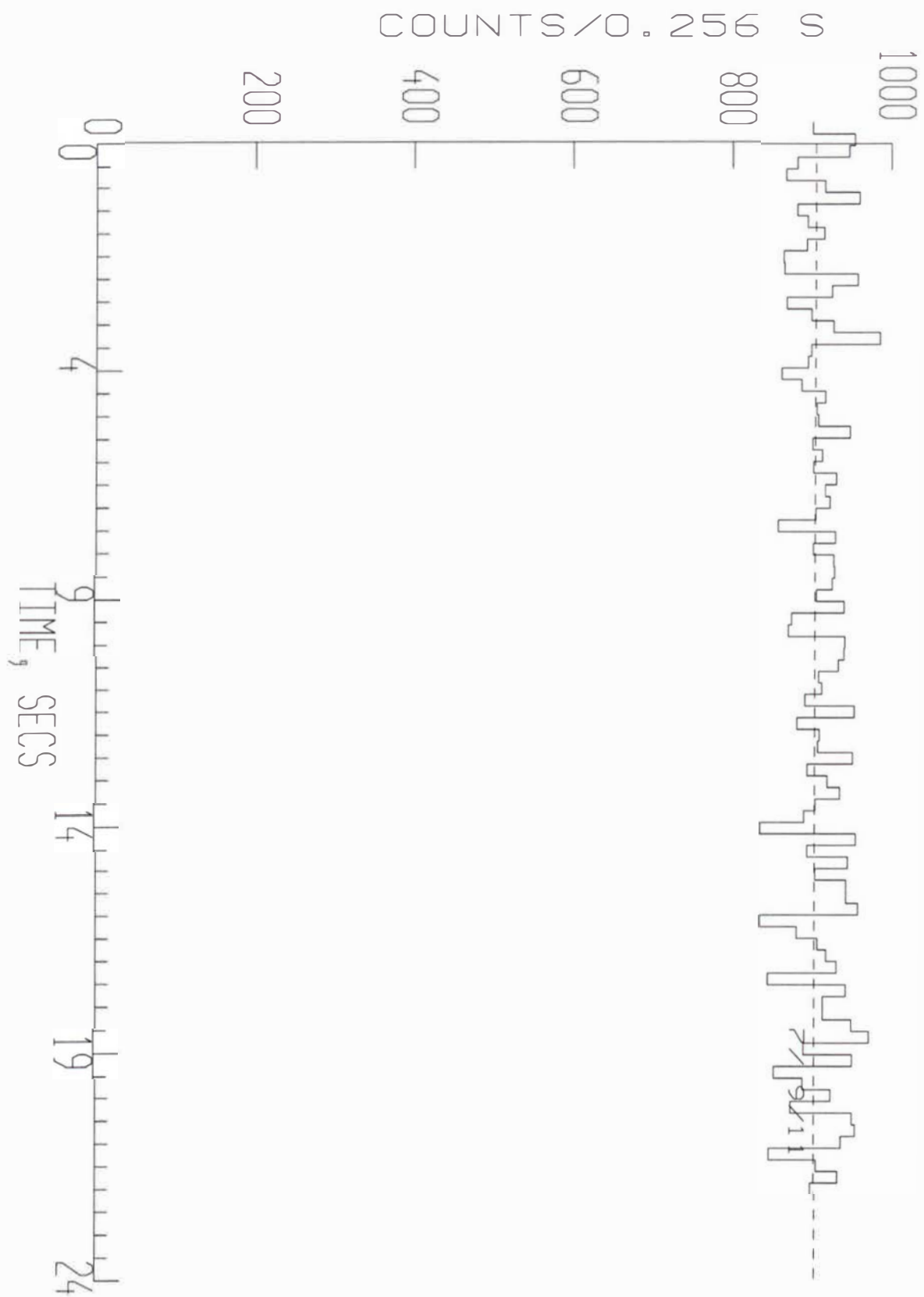
06/09/11 44613.000 (SWIFT_SLEW_20110906_44713)

B

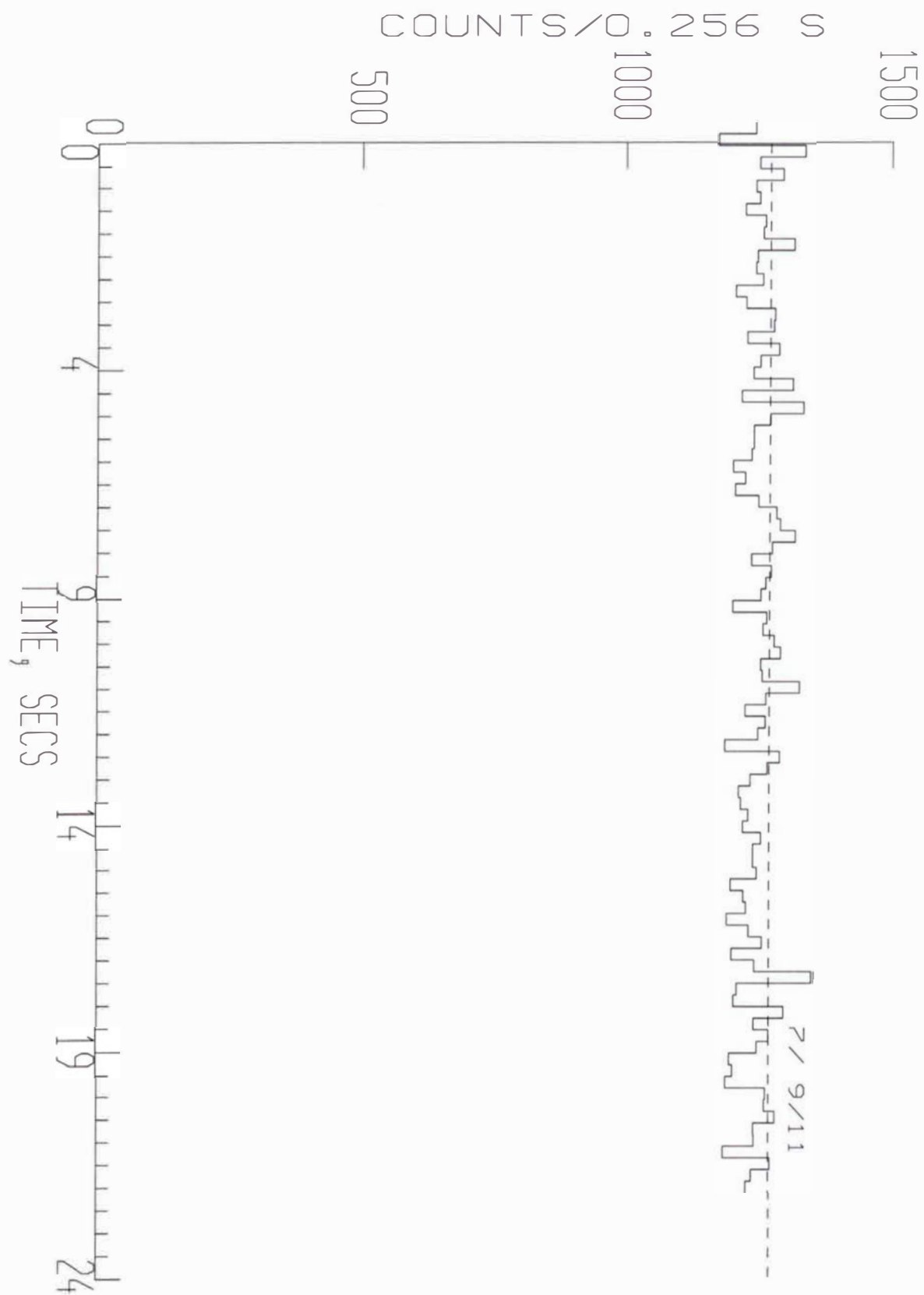
25- 150 keV



SWIFT 06/09/11 61224.662
25- 100 keV



SWIFT 06/09/11 62296.662
25- 100 keV



KONUS2

06/09/11

80285.187

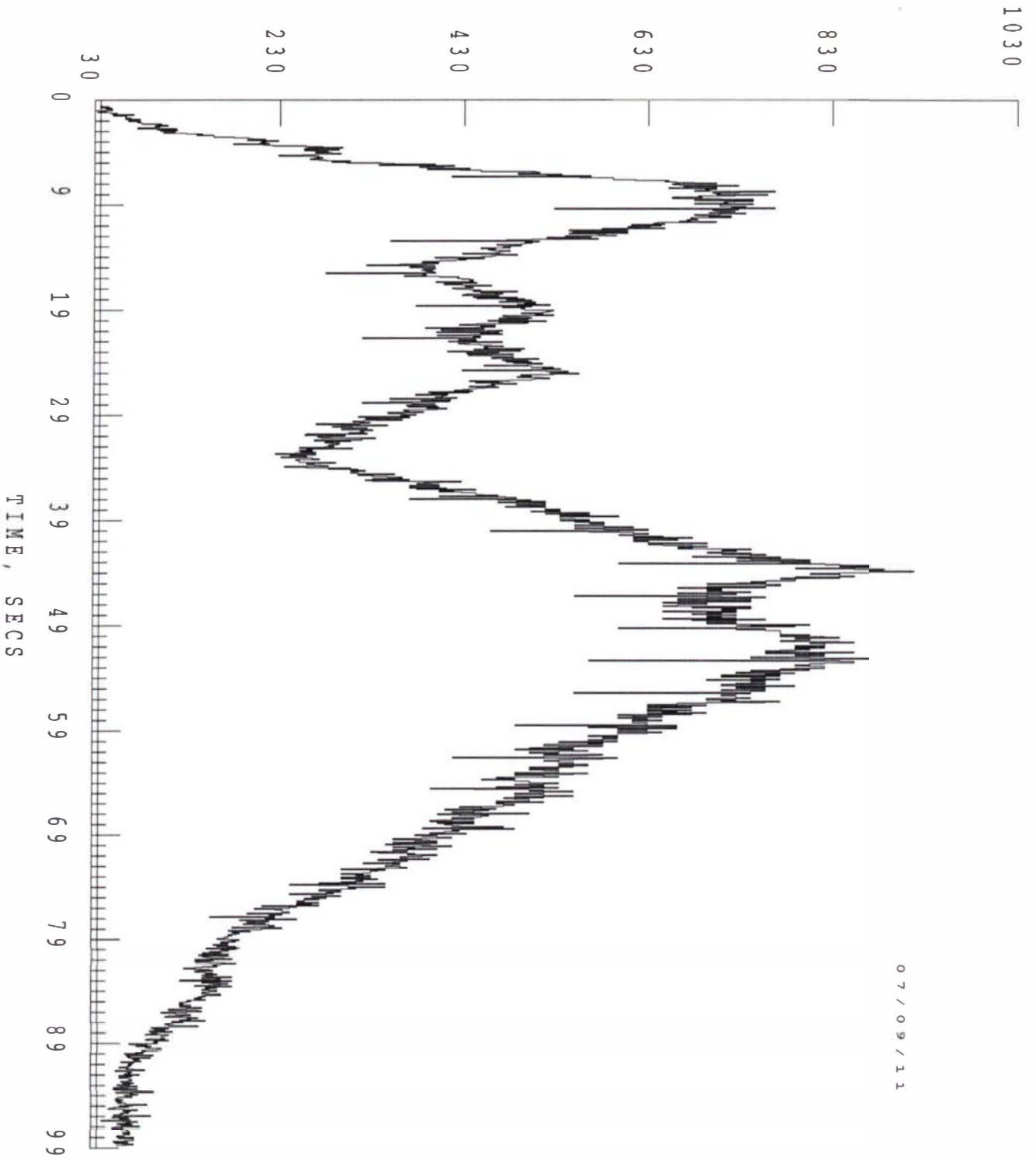
Solar

C.

50 - 200 keV

22:18:05

COUNTS/0.064 S



07/09/11

KONUS HRES 20110906 80285

TRIGGER TIME: 06/09/11 DOY 249 Julian 2455812.42922 UT = 22.301 22:18:05 (80285.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

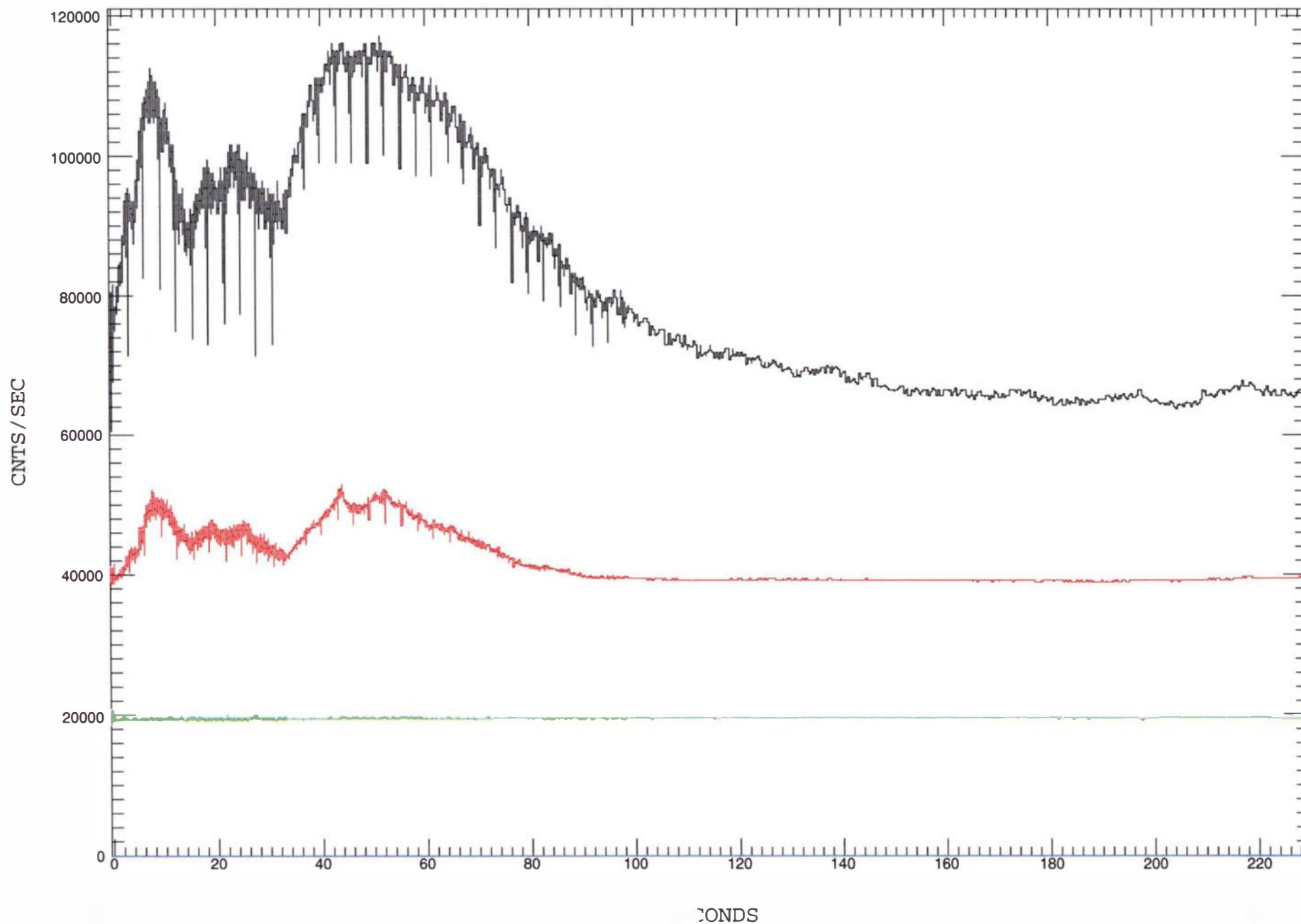
Chan 4 : [> 10 MeV]

Channel 1 + 58200

Channel 2 + 38800

Channel 3 + 19400

Channel 4 + 0



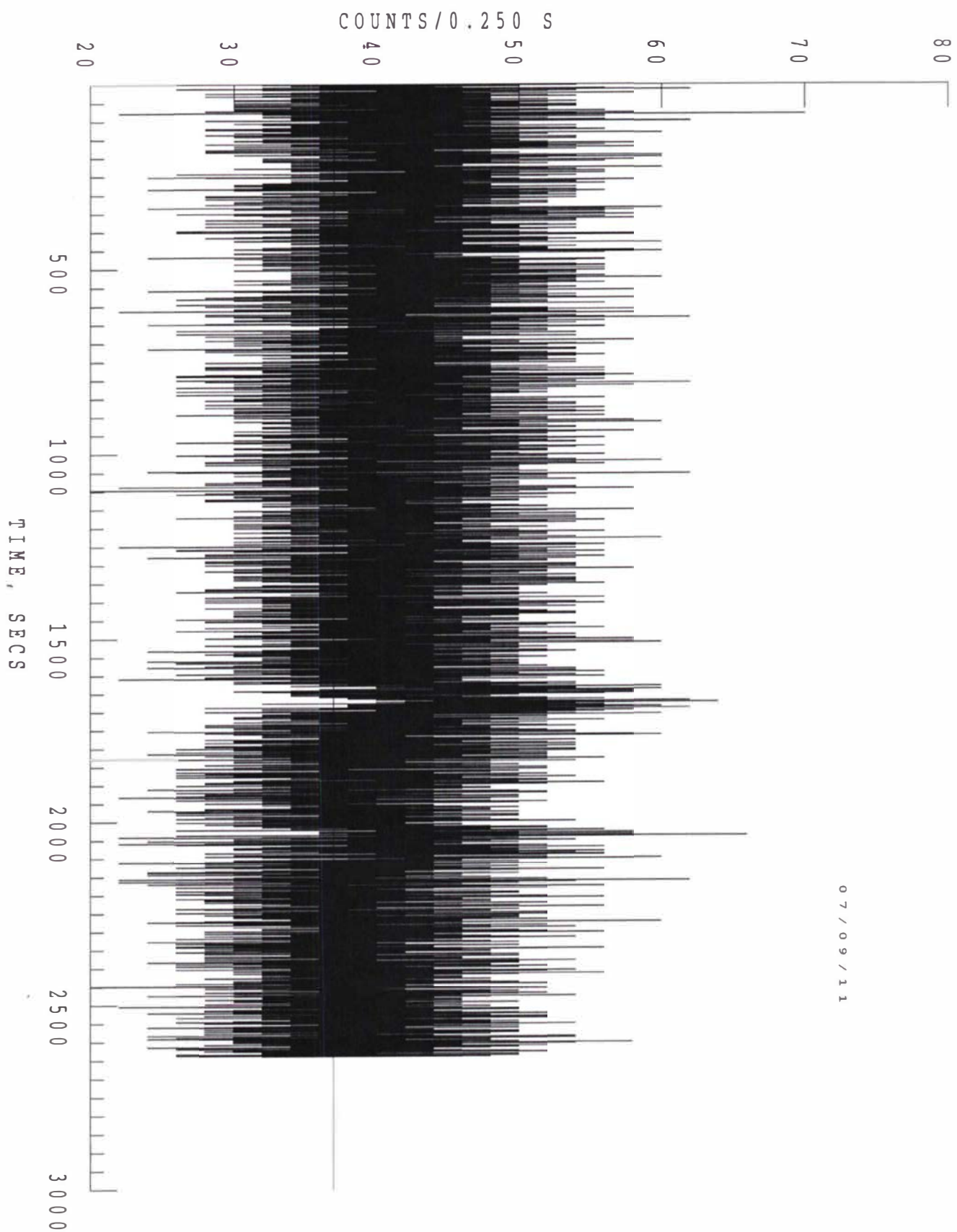
MS01

06/09/11

78941.358

C

50 - 3000 keV

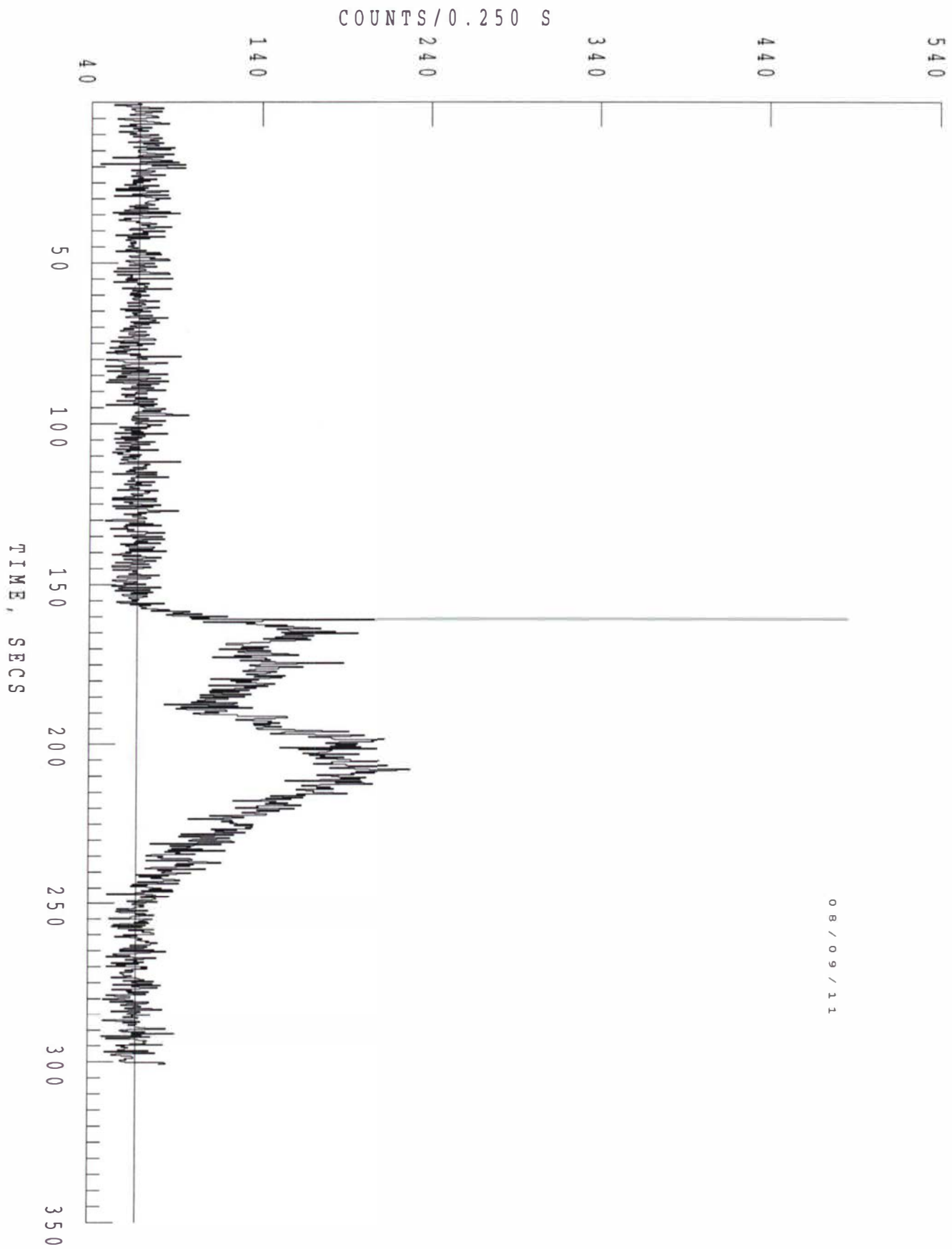


HESSI

06/09/11 80134.000 (KONUS2_20110906_80285)

C

25- 150 keV



INTEGRAL

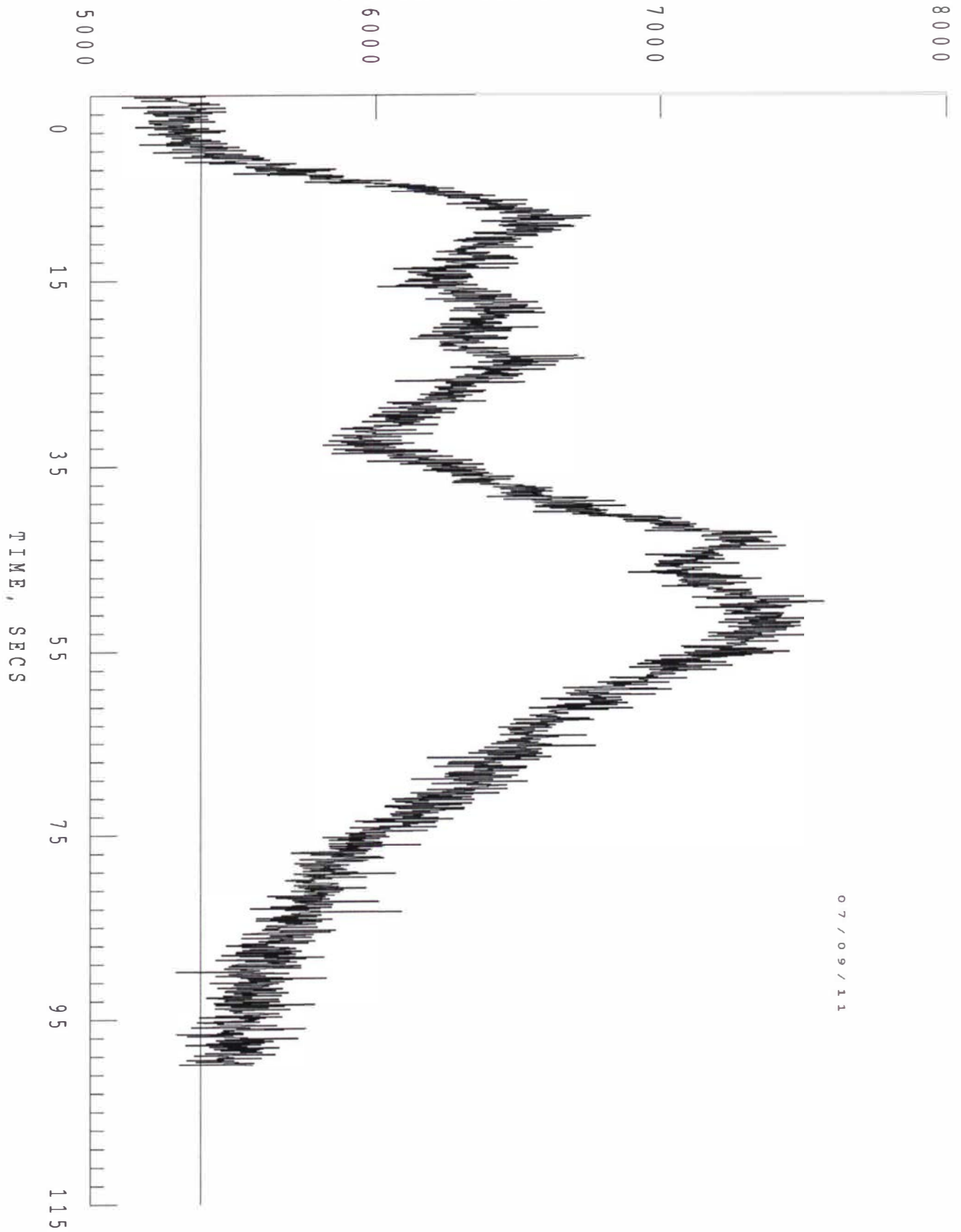
06/09/11

80290.920

C

100-10000 keV

COUNTS/0.050 S



U

29/11/11

MESSENGER

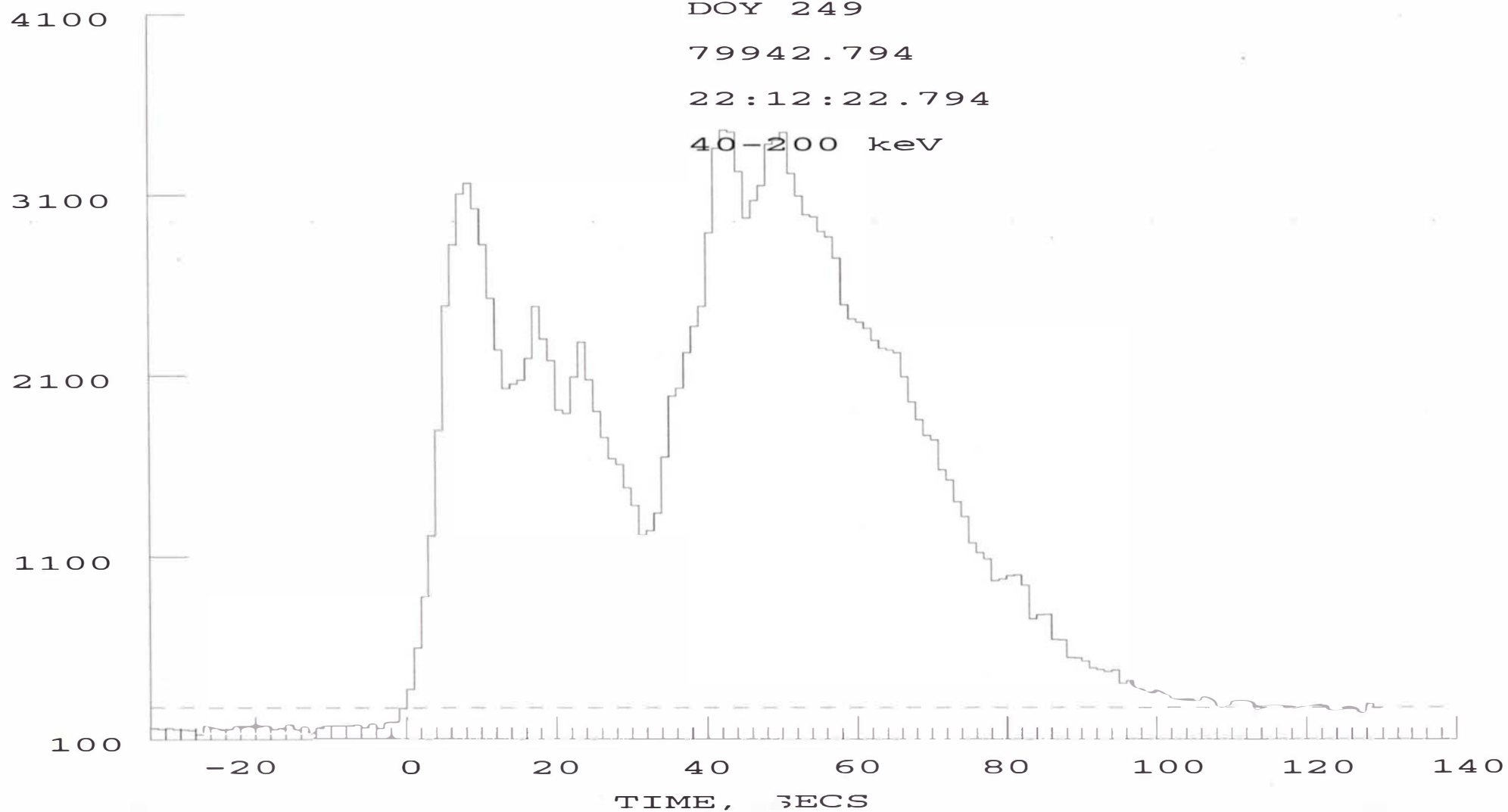
06/09/11

DOY 249

79942.794

22:12:22.794

40-200 keV



Subject: [lpn] Solar X flare 22:17 UT

From: David Palmer <palmer@lanl.gov>

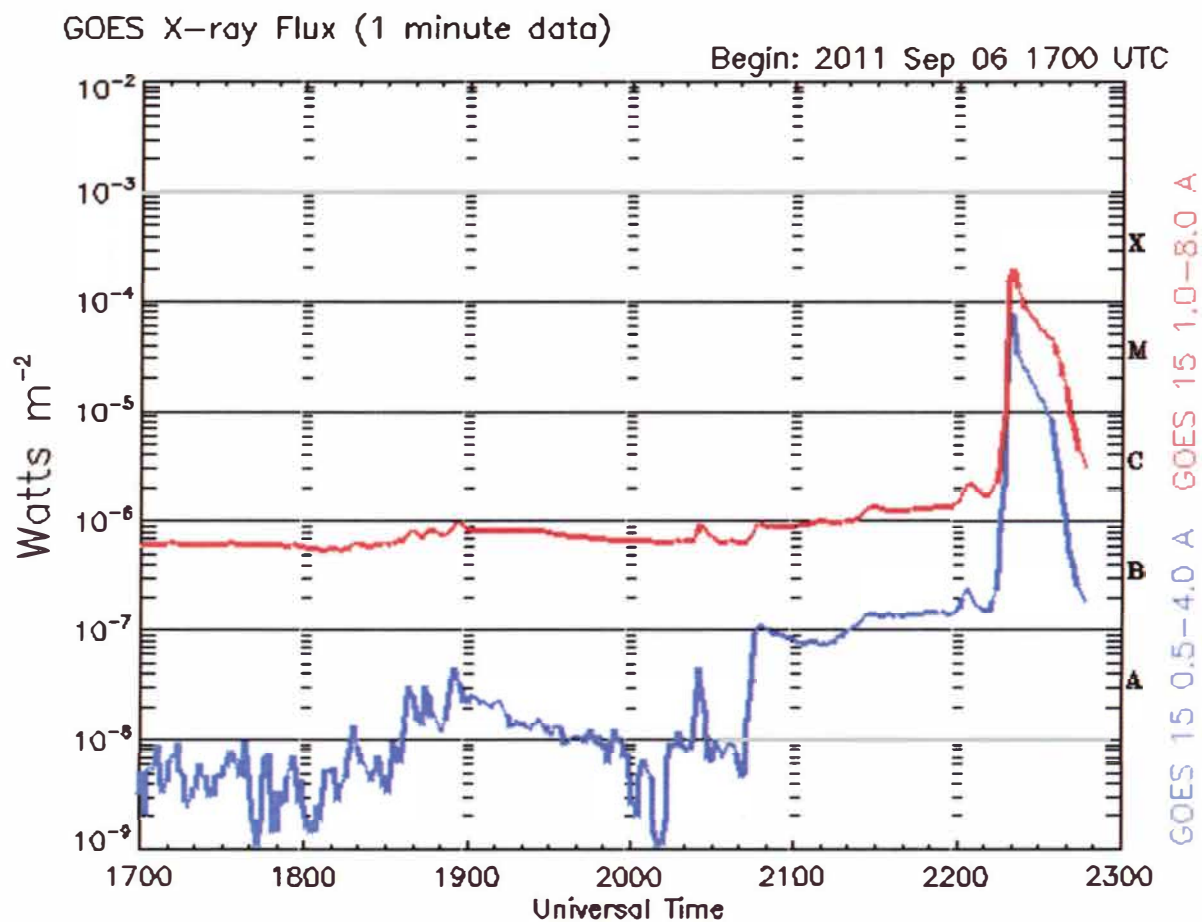
Date: Tue, 6 Sep 2011 16: 51: 30 0600

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>

At ~22:17 UT, there was a solar flare at X2.1 that triggered both Fermi and SPI.

Ignore any peak in the forthcoming automatic lightcurves for 110906_221x

Xray_1m.gif



Updated 2011 Sep 6 2248 UTC

NOAA/SWPC Boulder, CO USA

--
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>

Xray_1m.gif	Content-Type: image/gif Content-Encoding: base64
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Part 1.3

Part 1.3	Content-Type: text/plain Content-Encoding: 7bit
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Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
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Subject: [Ipn] BAT lightcurve for trigger at 110906_2229

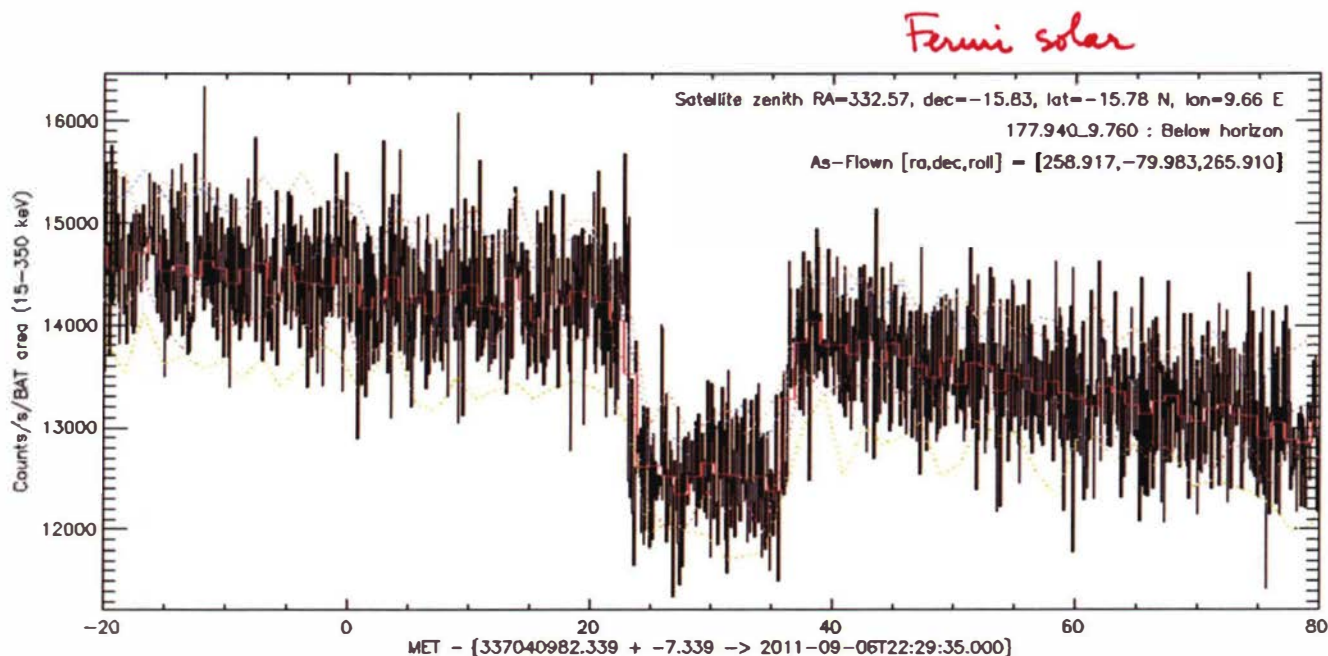
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 7 Sep 2011 11:39:43 -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/110906_2229.png



```
% /usr/local/bin/swinfo -o 337040982.339 -s 166.000_15.683
Time(MET + UTCF -> UT): 337040982.339 + -7.339 -> 2011-09-06T22:29:35.000
Swift Zenith(RA,dec): 332.57, -15.83
Swift Location(lon,lat,alt): 9.66 E, -15.78 N, 589 km
Obs Sequence Number: 00074185073
Obs Target Name: saa-cold-249-06
Obs Date and Times: 2011-09-06 22:01:54 - 22:29:51
Obs Pointing(ra,dec,roll): 258.917, -79.983, 265.91
166.000_15.683_imageloc (boresight_dist, angle): (106, -86)
166.000_15.683_exposure (cm2 cos adjusted): 0
166.000_15.683_altitude: -53 (down)
```

```
% /usr/local/bin/swinfo -o 337040982.339 -s 177.940_9.760
Time(MET + UTCF -> UT): 337040982.339 + -7.339 -> 2011-09-06T22:29:35.000
Swift Zenith(RA,dec): 332.57, -15.83
Swift Location(lon,lat,alt): 9.66 E, -15.78 N, 589 km
Obs Sequence Number: 00074185073
Obs Target Name: saa-cold-249-06
Obs Date and Times: 2011-09-06 22:01:54 - 22:29:51
Obs Pointing(ra,dec,roll): 258.917, -79.983, 265.91
177.940_9.760_imageloc (boresight_dist, angle): (98, -75)
177.940_9.760_exposure (cm2 cos adjusted): 0
177.940_9.760_altitude: -41 (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/110906_2229_bat64ms_ipn

Content-Type: application/octet-stream

Content-Encoding: base64

/tmp/110906_2229.png

/tmp/110906_2229.png

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

Part 1.4

Part 1.4

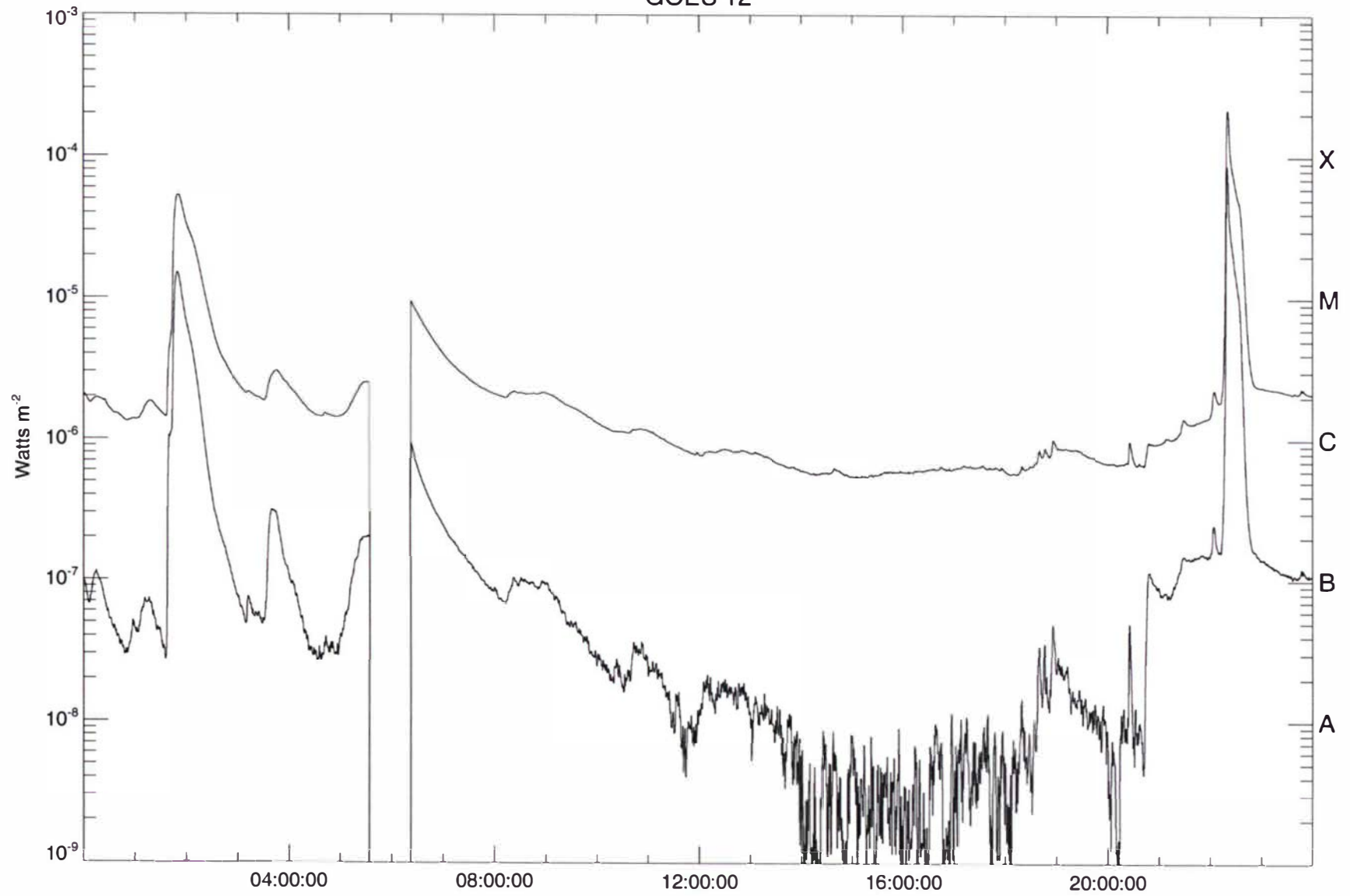
Content-Type: text/plain
Content-Encoding: 7bit

Part 1.5

Part 1.5

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

GOES 12



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

Plot created: 11/09/09, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

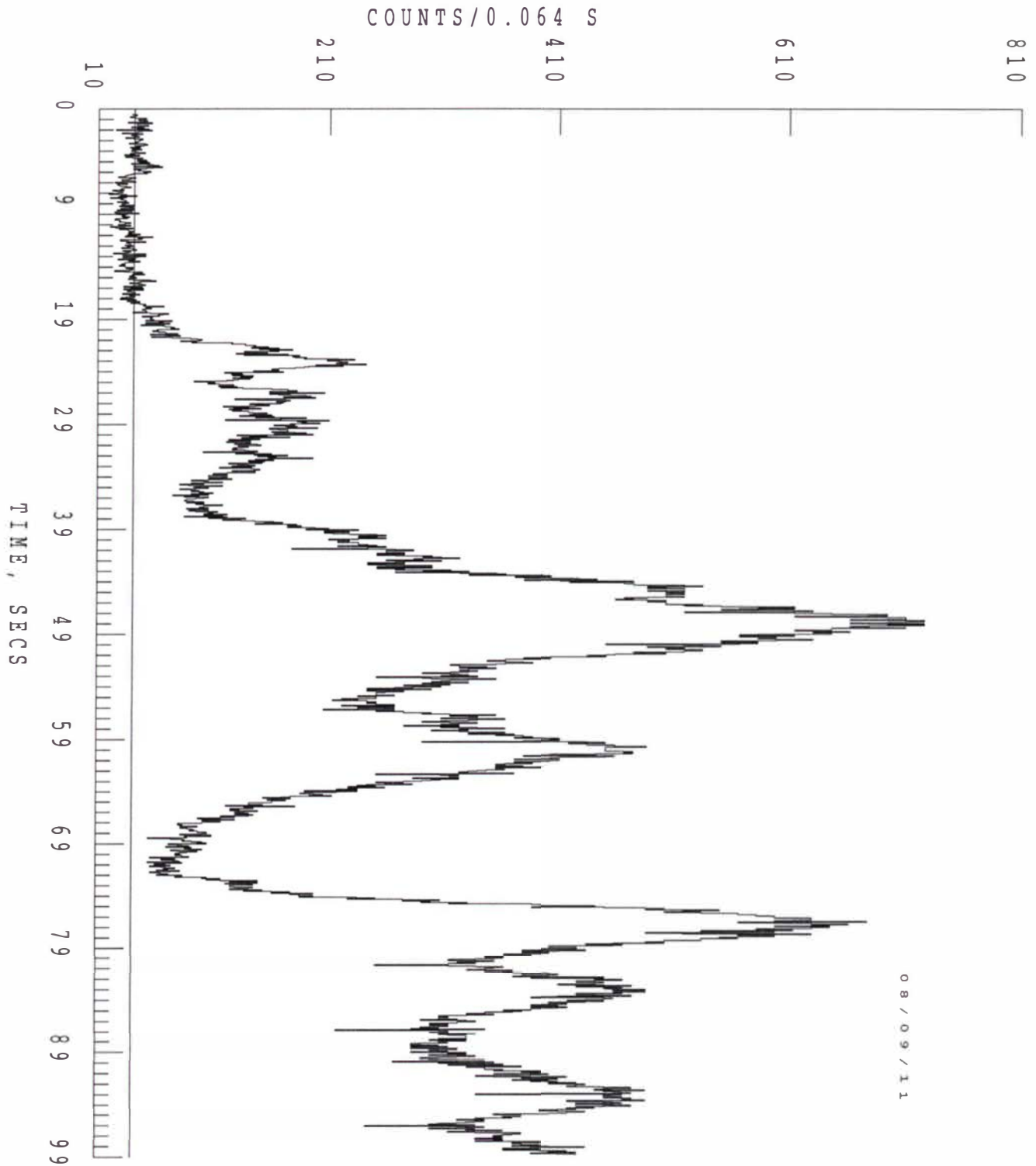
07/09/11

81326.331

22:35:26

50 - 200 keV

Solar

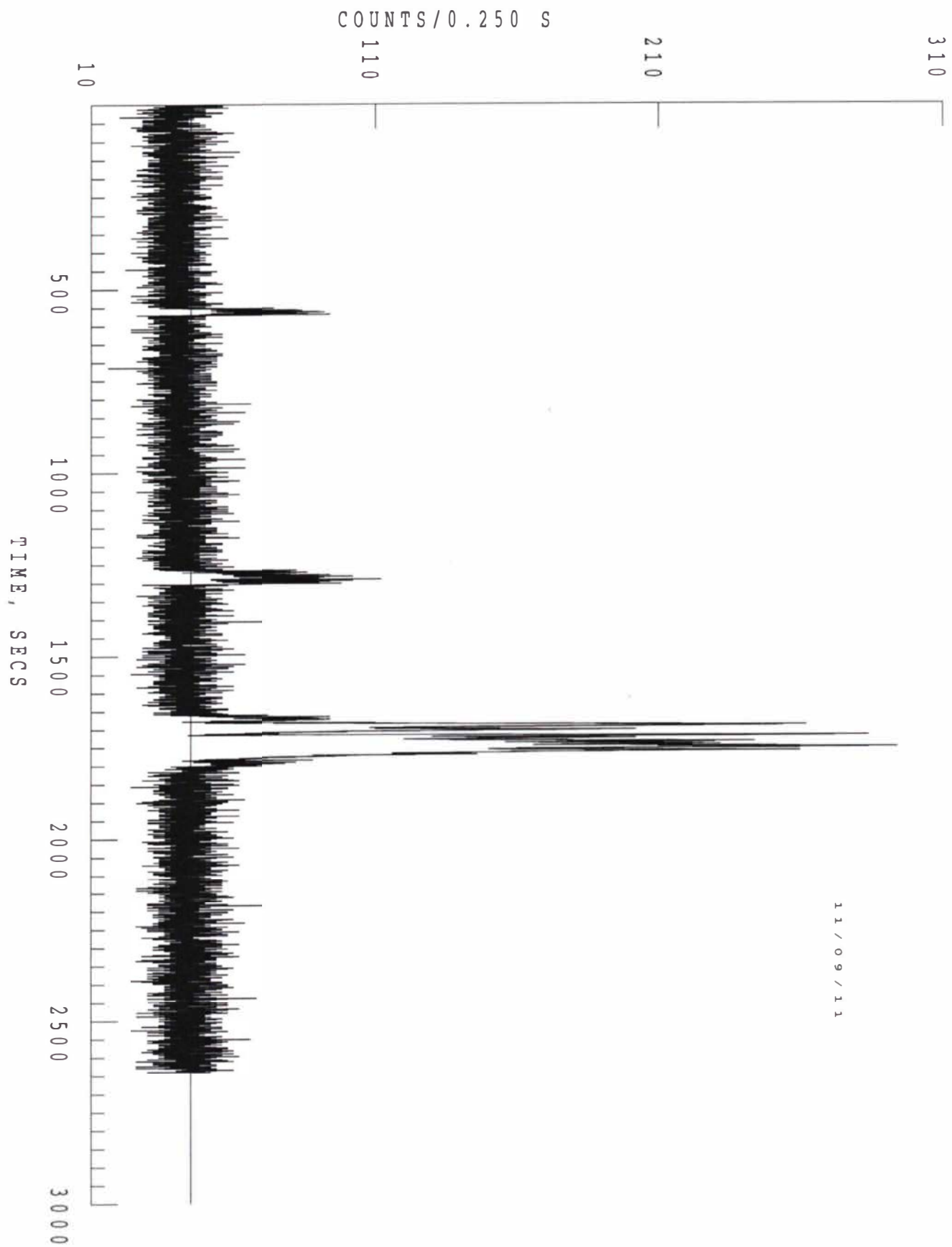


MS01

07/09/11

79959.866

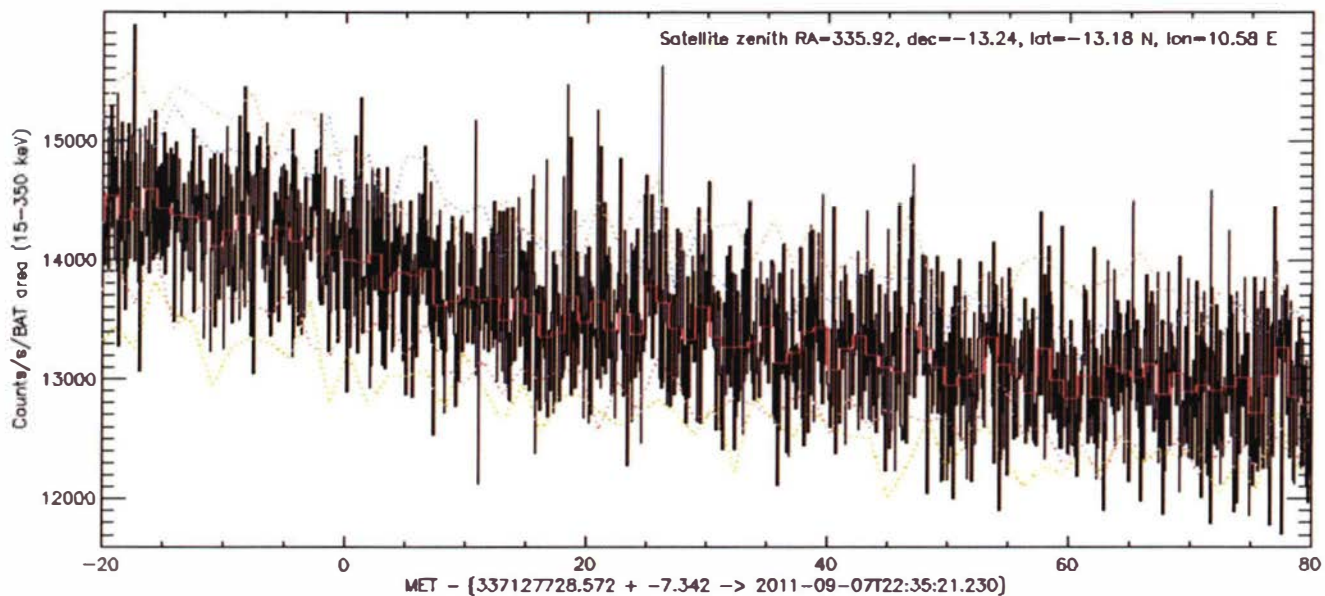
50 - 3000 keV



Subject: [Ipn] BAT lightcurve for trigger at 110907_2235
From: palmer+automatic_lightcurve@lanl.gov
Date: Wed, 7 Sep 2011 18:39:15 -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/110907_2235.png



```
% /usr/local/bin/swinfo -o 337127728.572
Time(MET + UTCF -> UT):      337127728.572 + -7.342 -> 2011-09-07T22:35:21.230
Swift Zenith(RA,dec):        335.92, -13.24
Swift Location(lon,lat,alt):  10.58 E, -13.18 N, 589 km
```

--
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/110907_2235_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110907_2235.png

/tmp/110907_2235.png	Content-Type: image/png Content-Encoding: base64
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Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
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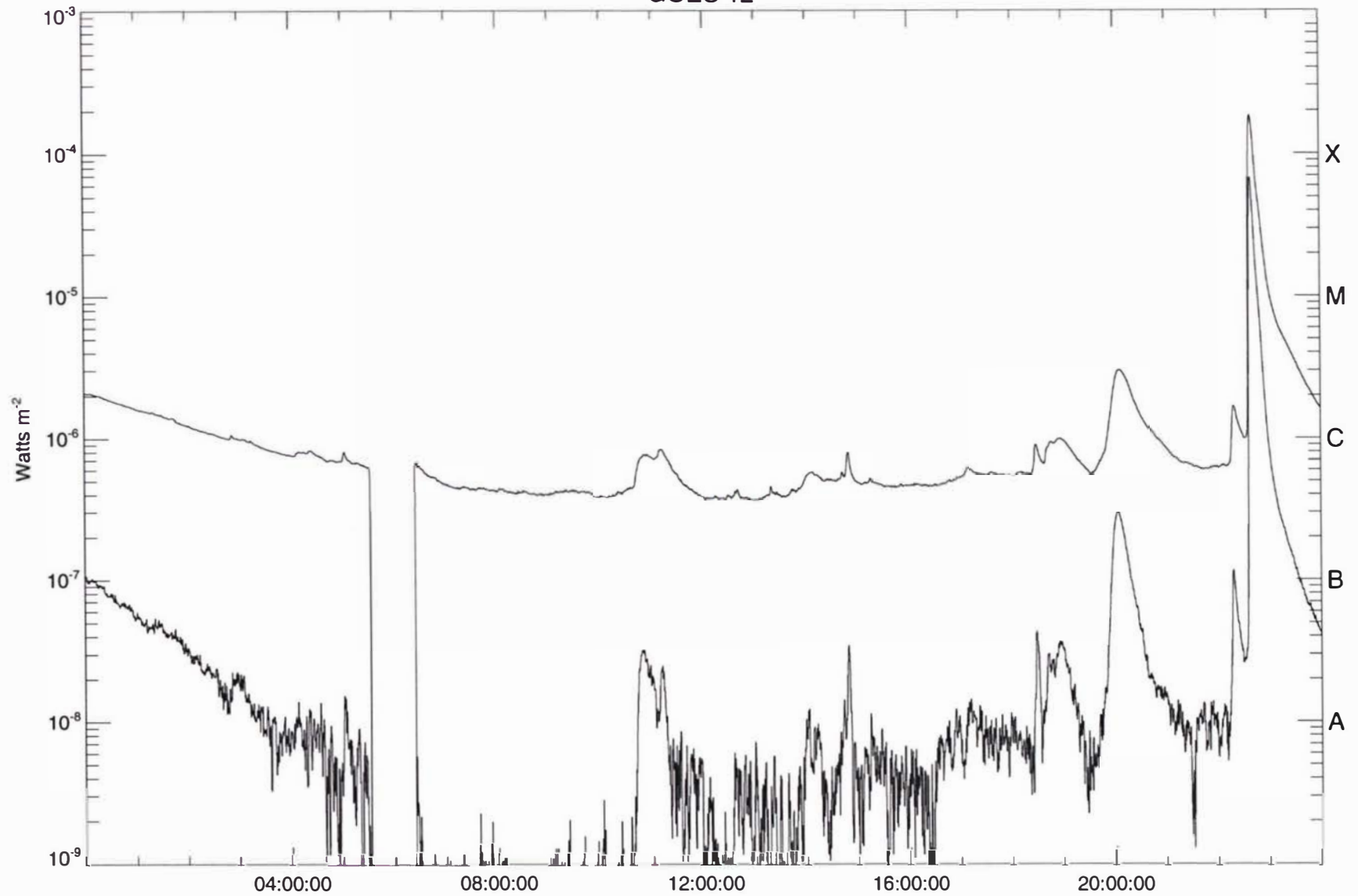
Part 1.5

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

From williams@gammaburst.ssl.berkeley.edu Thu Sep 8 13:33:18 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Thu, 8 Sep 2011 13:32:39 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for KONUS2 20110907 81326
X-Ucb-Scan-Signature: 5f93b977bcf7635e9dad9c01f22ccb3062183a38
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 8-Sep-2011 13:33:49.00
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

GOES 12



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

Plot created: 11/09/10, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

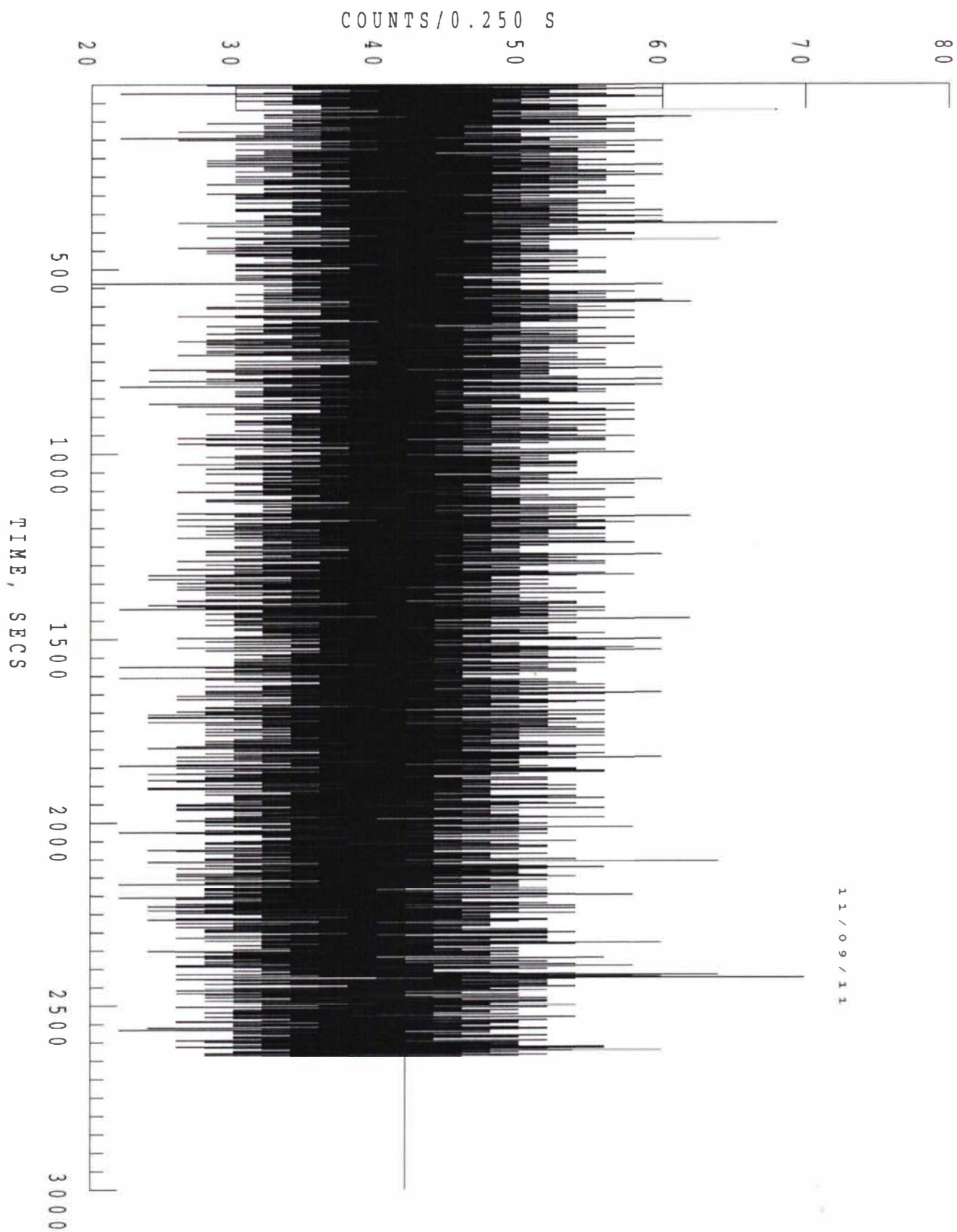
Sample average = 10

MS01

08/09/11

55238.816

50 - 3000 keV



KONUS2

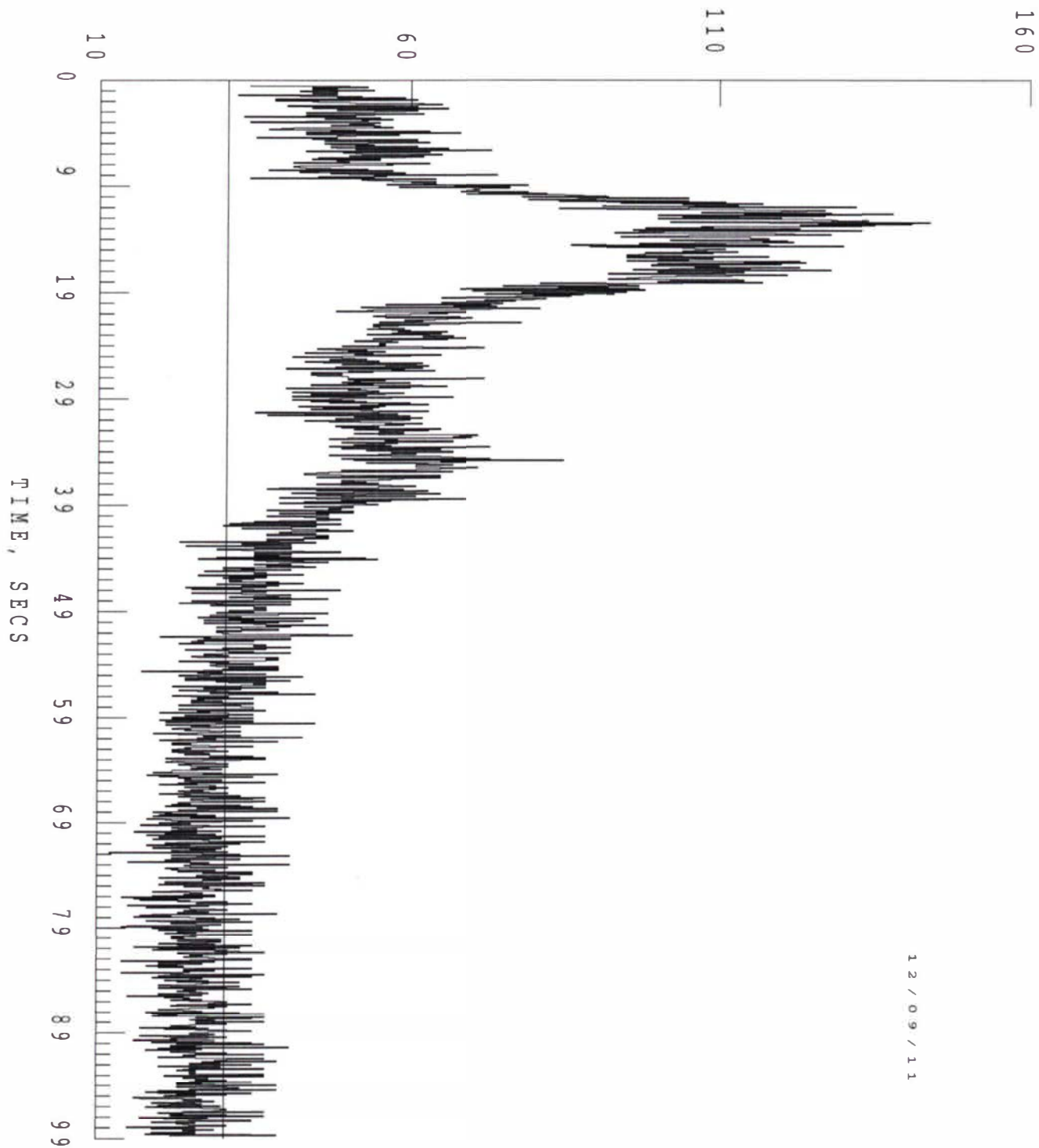
08/09/11

56572.314

50 - 200 keV

Solar

COUNTS/0.064 S



KONUS HRES 20110908 56572

TRIGGER TIME: 08/09/11 DOY 251 Julian 2455814.15477 UT = 15.714 15:42:52 (56572.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

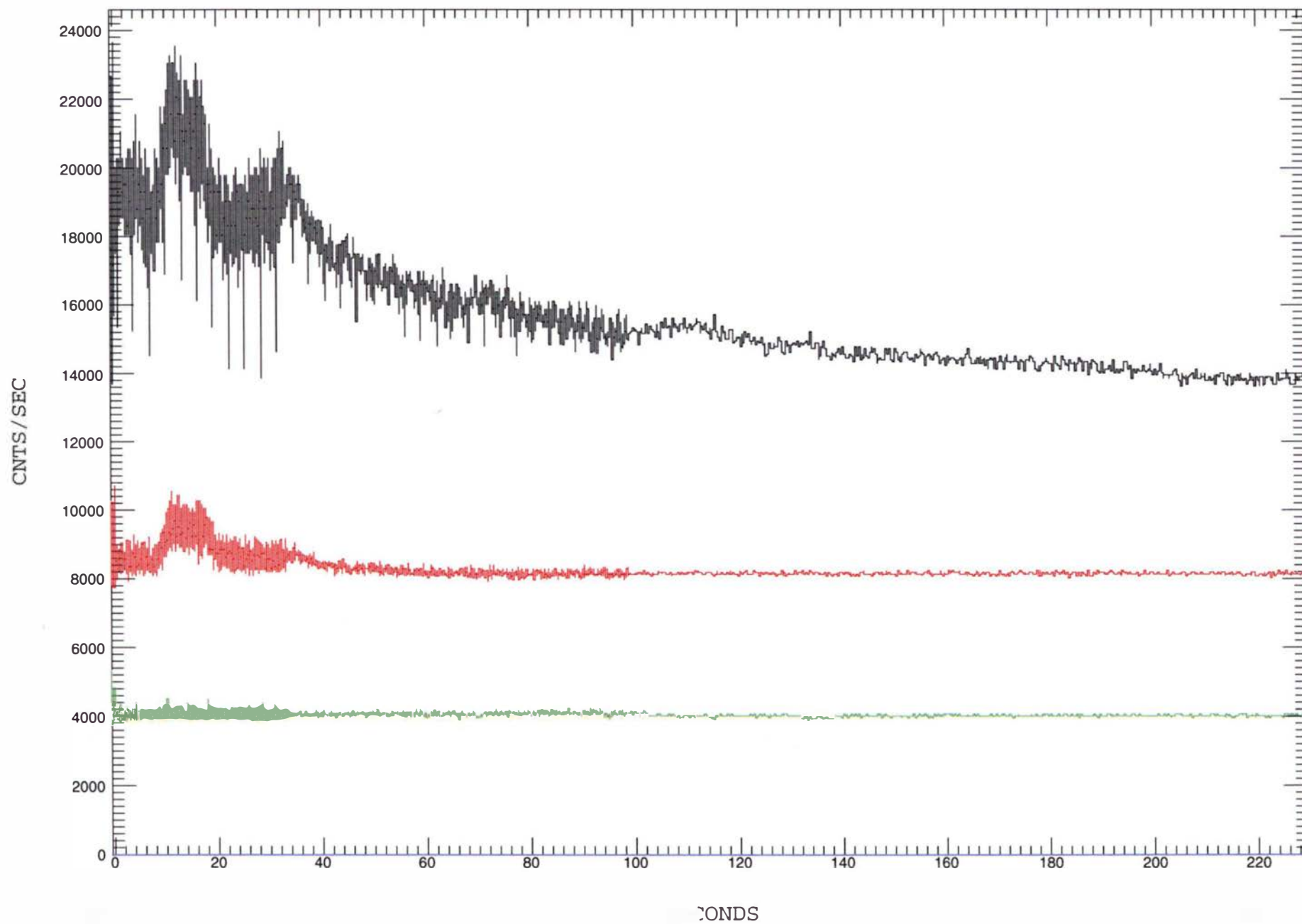
Chan 4 : [> 10 MeV]

Channel 1 + 11700

Channel 2 + 7800

Channel 3 + 3900

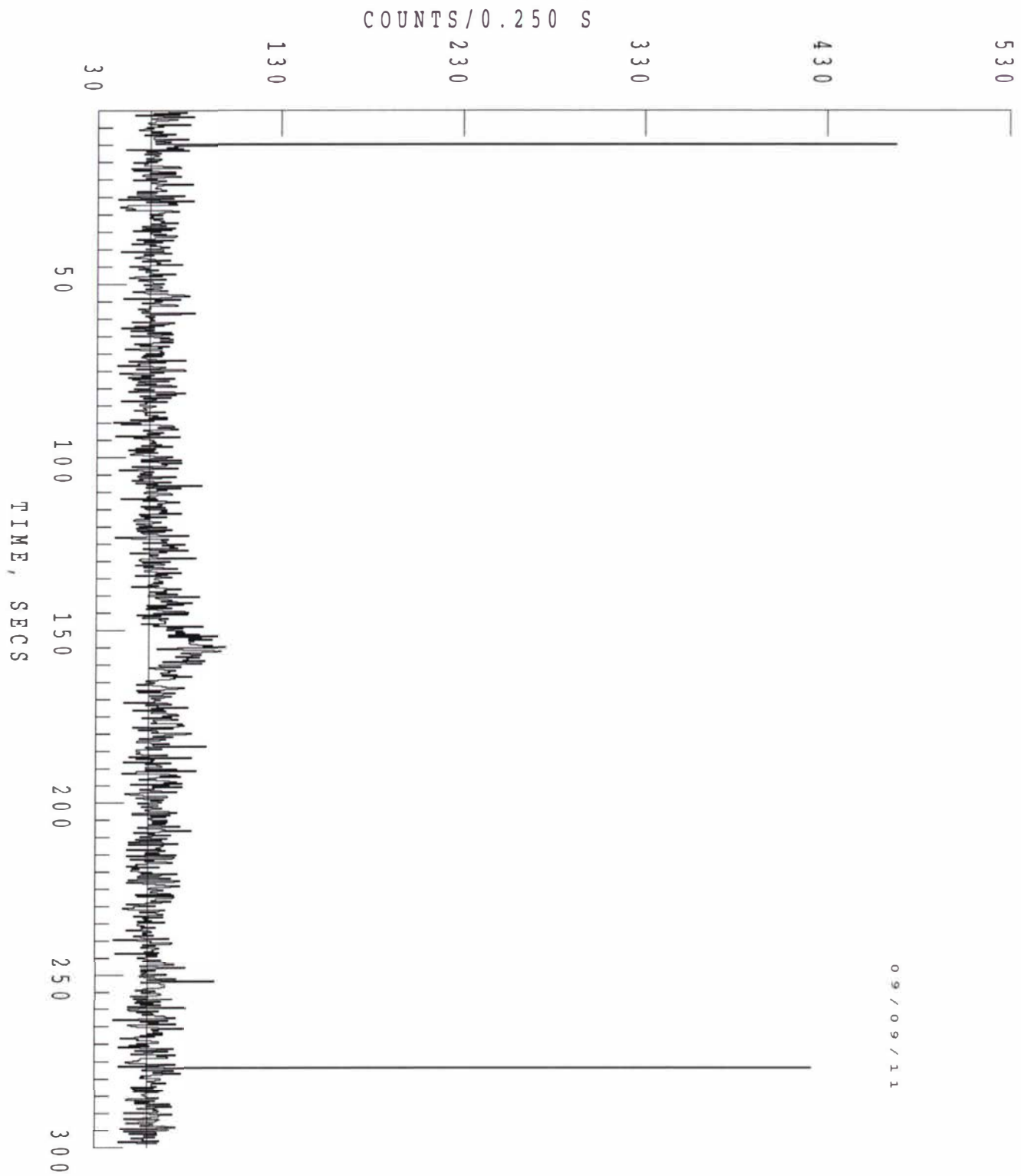
Channel 4 + 0



HESSI

08/09/11 56437.000 (INTEGRAL_20110908_56587)

25- 150 keV



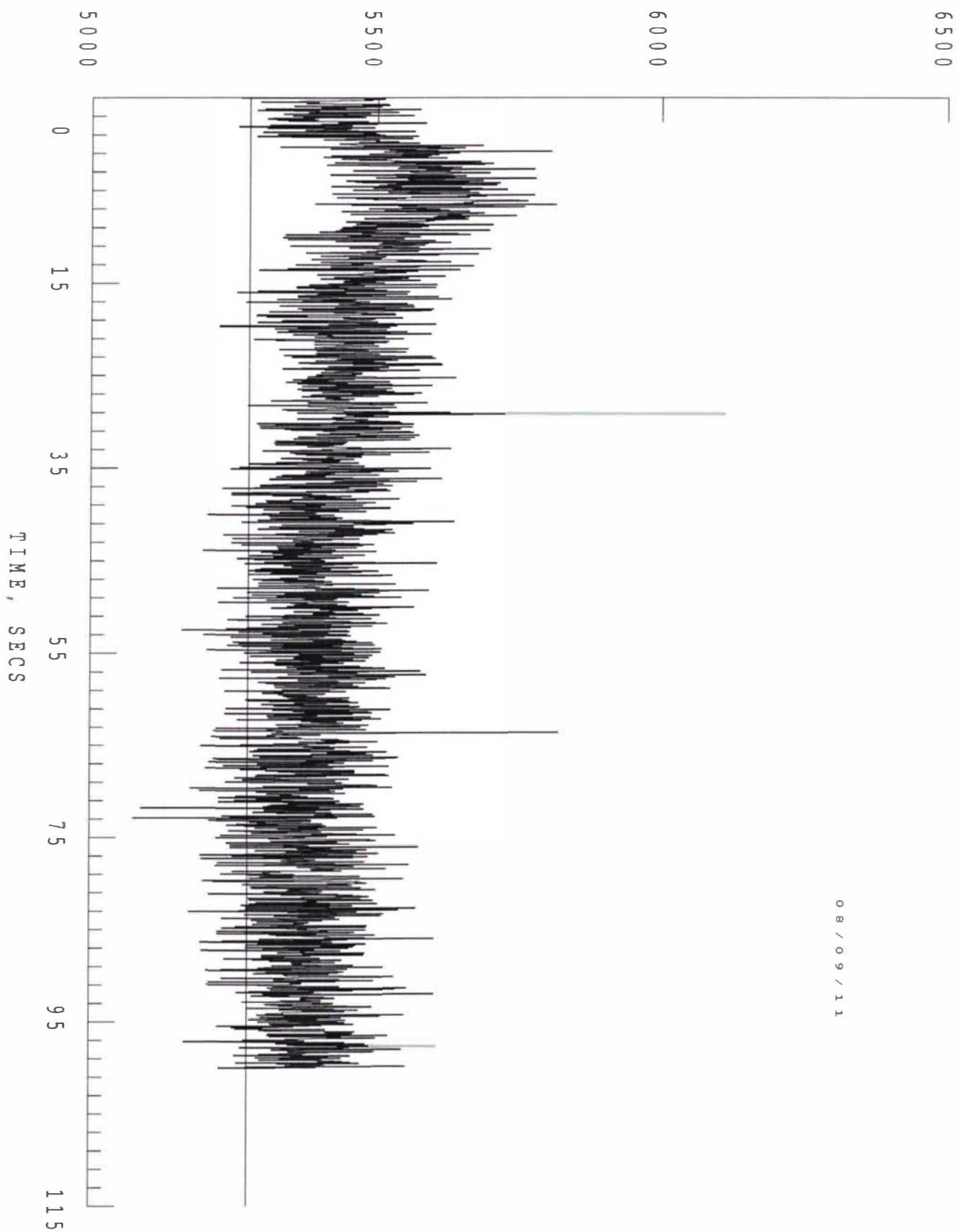
INTEGRAL

08/09/11

56587.019

100-10000 keV

COUNTS/0.050 S



08/09/11

Subject: [lpn] BAT lightcurve for trigger at 110908_1538

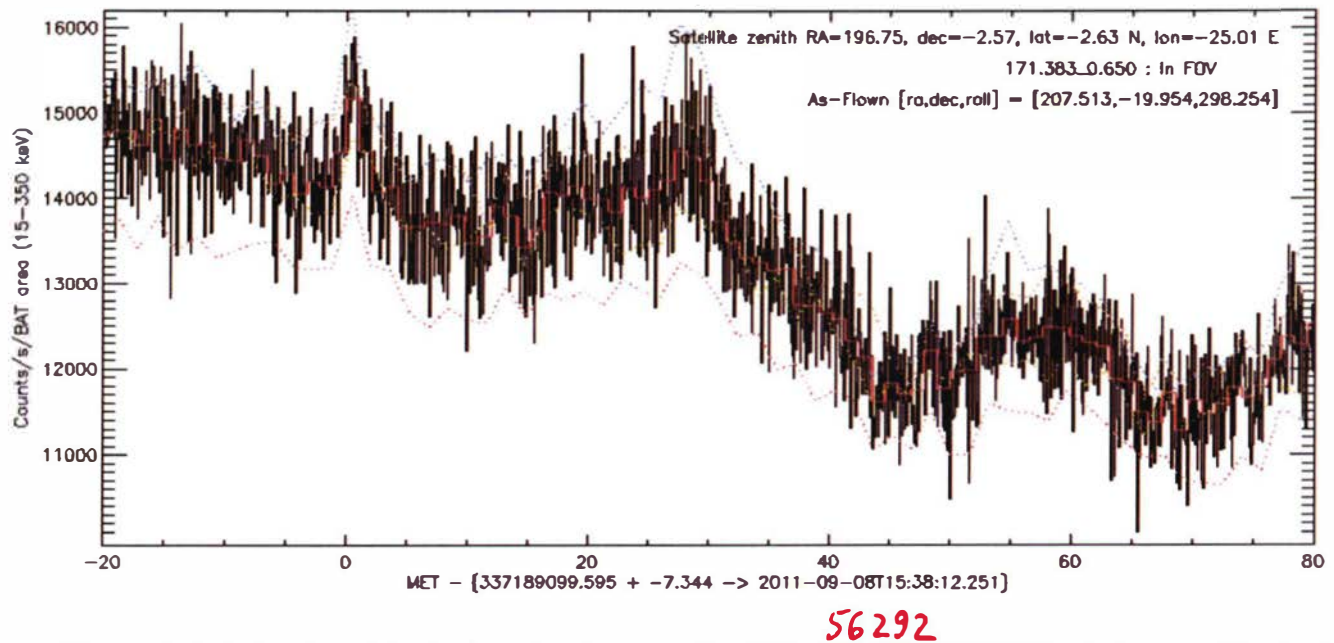
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 8 Sep 2011 12:37:38 -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/110908_1538.png



```
% /usr/local/bin/swinfo -o 337189099.595 -s 166.750_5.283
Time(MET + UTCF -> UT):      337189099.595 + -7.344 -> 2011-09-08T15:38:12.251
Swift Zenith(RA,dec):        196.75, -2.57
Swift Location(lon,lat,alt):  -25.01 E, -2.63 N, 589 km
Obs Sequence Number:         00074256020
Obs Target Name:              saa-cold-251-03
Obs Date and Times:           2011-09-08 15:32:54 - 15:50:48
Obs Pointing(ra,dec,roll):    207.513, -19.954, 298.25
166.750_5.283_imageloc (boresight_dist, angle): (47, -90)
166.750_5.283_exposure (cm^2 cos adjusted): 0
166.750_5.283_altitude: 83 (up)
```

```
% /usr/local/bin/swinfo -o 337189099.595 -s 171.383_0.650
Time(MET + UTCF -> UT):      337189099.595 + -7.344 -> 2011-09-08T15:38:12.251
Swift Zenith(RA,dec):        196.75, -2.57
Swift Location(lon,lat,alt):  -25.01 E, -2.63 N, 589 km
Obs Sequence Number:         00074256020
Obs Target Name:              saa-cold-251-03
Obs Date and Times:           2011-09-08 15:32:54 - 15:50:48
Obs Pointing(ra,dec,roll):    207.513, -19.954, 298.25
171.383_0.650_imageloc (boresight_dist, angle): (41, -92)
171.383_0.650_exposure (cm^2 cos adjusted): 480
171.383_0.650_altitude: 88 (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/110908_1538.png Content-Type: image/png

Content-Encoding: base64

/tmp/110908_1538_bat64ms_ipn

/tmp/110908_1538_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
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Part 1.5

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

From ipn-bounces@ssl.berkeley.edu Thu Sep 8 12:30:45 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
X-NIE-2-Virus-Scanner: amavisd-new at nis-mail.lanl.gov
From: David Palmer <palmer@lanl.gov>
Date: Thu, 8 Sep 2011 13:31:55 -0600
To: palmer@lanl.gov
Cc: ipn@ssl.berkeley.edu, dmopalmer@gmail.com, bat_team@bigbang.gsfc.nasa.gov,
gbm-ba@mpe.mpg.de, mkippen@lanl.gov
Subject: Re: [Ipn] BAT lightcurve for trigger at 110908_1538
X-Ucb-Scan-Signature: 951893b58a2fc36e646aad68bffce8af4a38b6b1
X-Ucb-Spam: Gauge=X, Probability=10%, Report='DC GIF_UNO_LARGO 1.323,
DC_IMAGE_SPAM_HTML 0.141, DC_IMAGE_SPAM_TEXT 0.123, RP_MATCHES_RCVD -0.5
X-Ucb-Notice: This message has been processed by a spam tagging system.

This one is solar again. M6.7
http://www.swpc.noaa.gov/rt_plots/xray_1m.html

On Sep 8, 2011, at 12:37 PM, palmer+automatic_lightcurve@lanl.gov wrote:

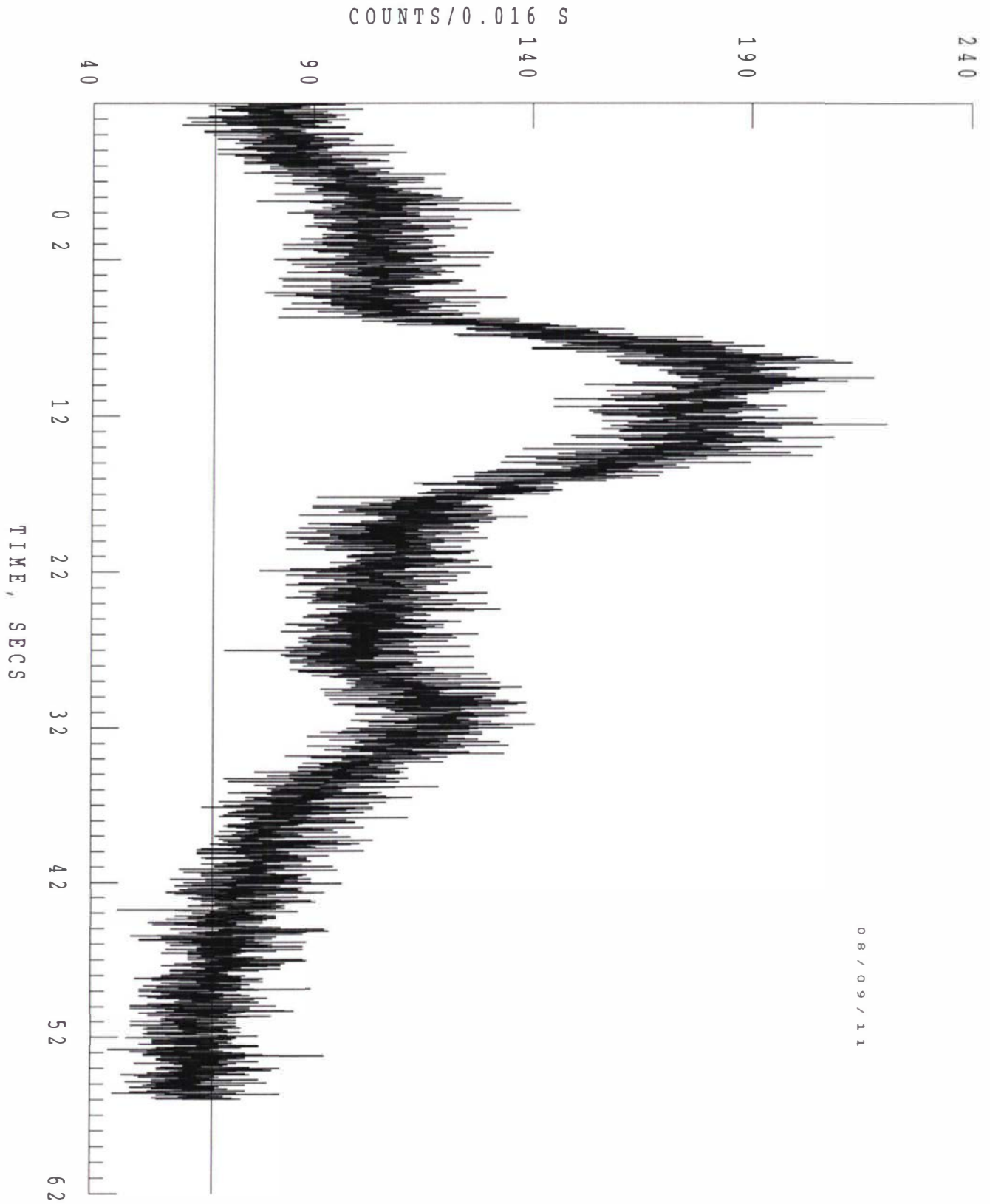
```
>
>
> *****THIS IS AN AUTOMATICALLY GENERATED MESSAGE*****
>
> <_tmp_110908_1538.png><_tmp_110908_1538_bat64ms_ipn>
> % /usr/local/bin/swinfo -o 337189099.595 -s 166.750_5.283
> Time(MET + UTCF -> UT): 337189099.595 + -7.344 -> 2011-09-08T15:38:12.25
> Swift Zenith(RA,dec): 196.75, -2.57
> Swift Location(lon,lat,alt): -25.01 E, -2.63 N, 589 km
> Obs Sequence Number: 00074256020
> Obs Target Name: saa-cold-251-03
> Obs Date and Times: 2011-09-08 15:32:54 - 15:50:48
> Obs Pointing(ra,dec,roll): 207.513, -19.954, 298.25
> 166.750_5.283_imageloc (boresight_dist, angle): (47, -90)
> 166.750_5.283_exposure (cm^2 cos adjusted): 0
> 166.750_5.283_altitude: 83 (up)
>
> % /usr/local/bin/swinfo -o 337189099.595 -s 171.383_0.650
> Time(MET + UTCF -> UT): 337189099.595 + -7.344 -> 2011-09-08T15:38:12.25
> Swift Zenith(RA,dec): 196.75, -2.57
> Swift Location(lon,lat,alt): -25.01 E, -2.63 N, 589 km
> Obs Sequence Number: 00074256020
> Obs Target Name: saa-cold-251-03
> Obs Date and Times: 2011-09-08 15:32:54 - 15:50:48
> Obs Pointing(ra,dec,roll): 207.513, -19.954, 298.25
> 171.383_0.650_imageloc (boresight_dist, angle): (41, -92)
> 171.383_0.650_exposure (cm^2 cos adjusted): 480
> 171.383_0.650_altitude: 88 (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
```

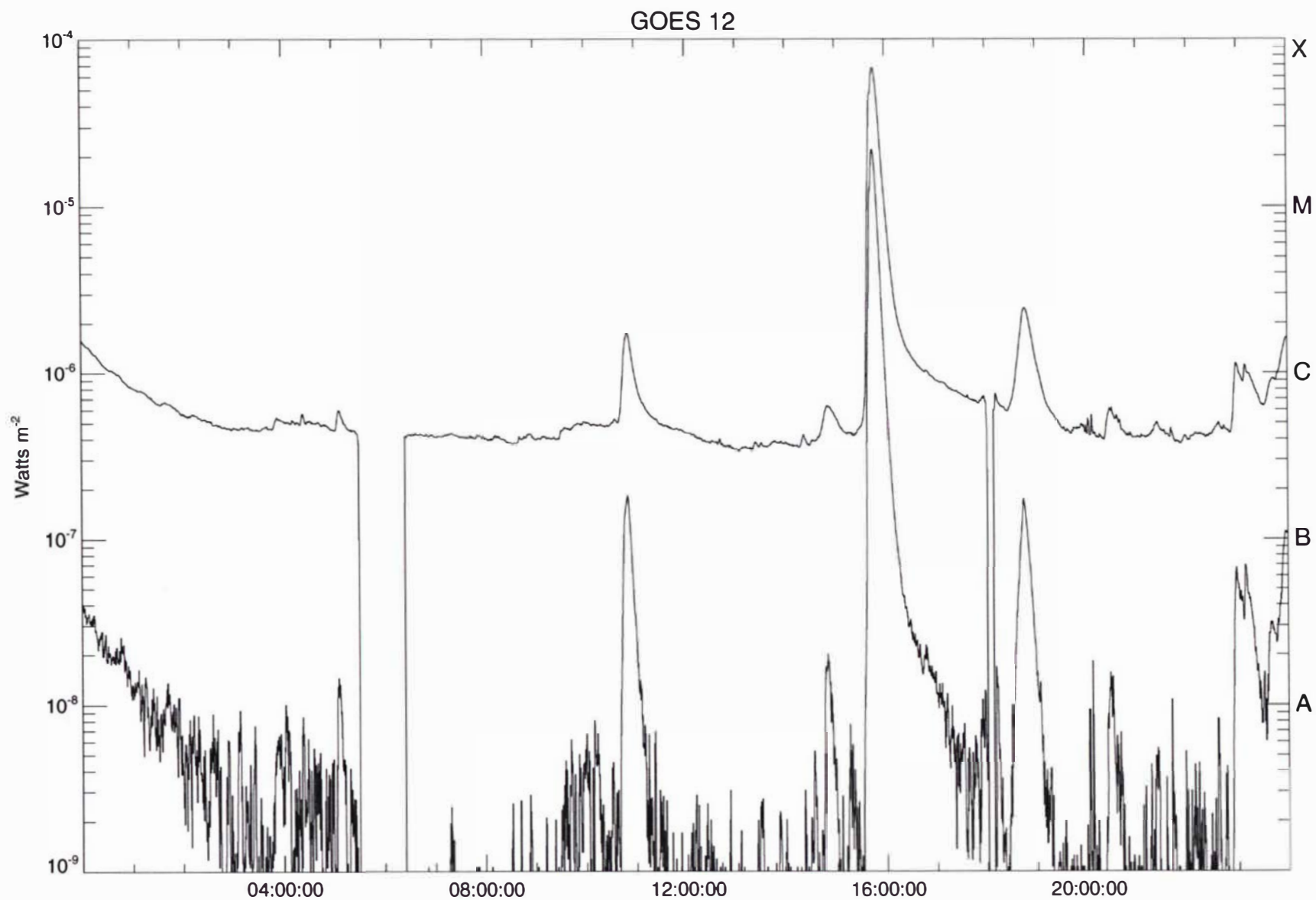
SUZAKU

08/09/11

56579.729

50 - 240 keV





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

Plot created: 11/09/11, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: Jul 21 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?

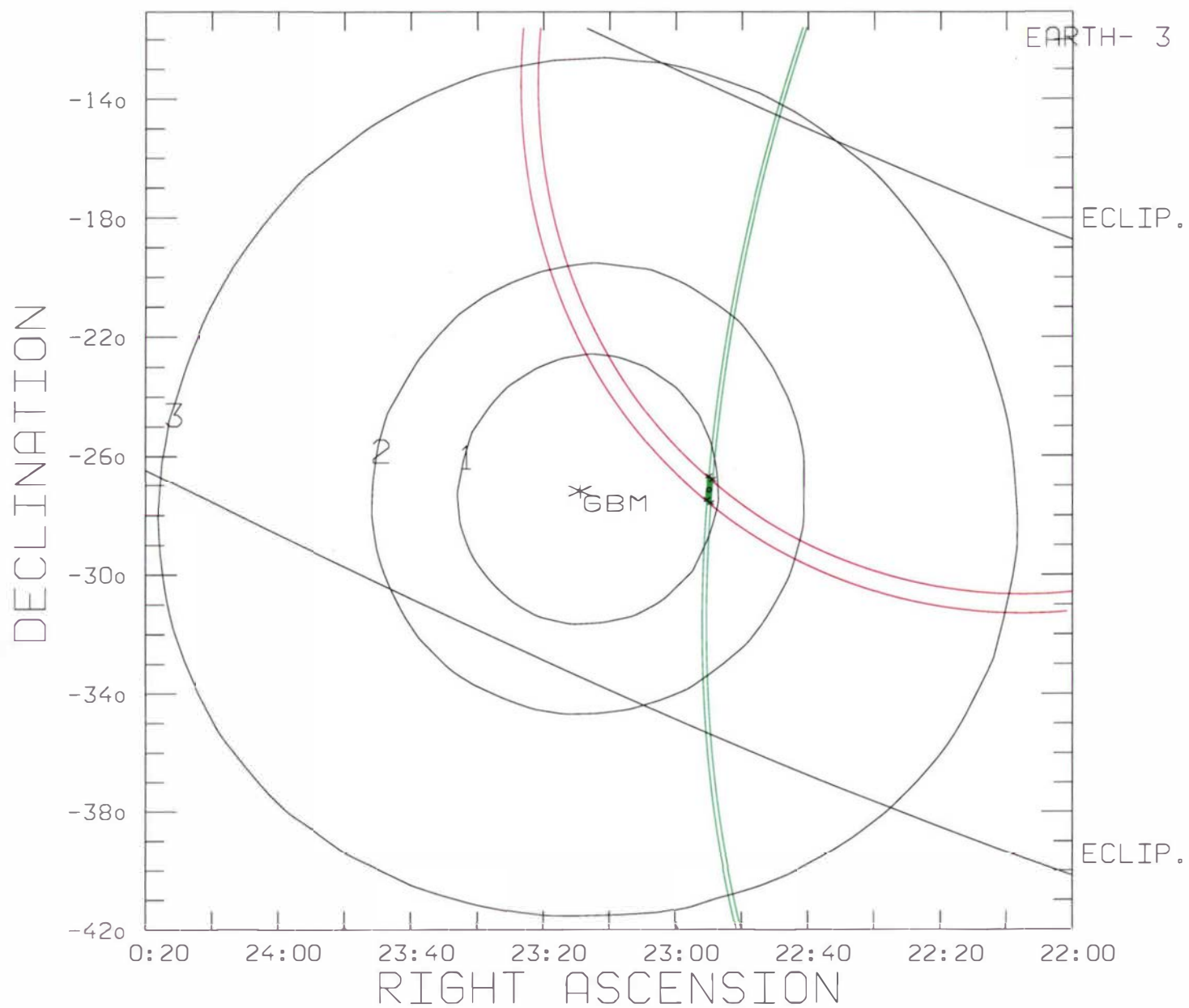
7. For INTEGRAL events

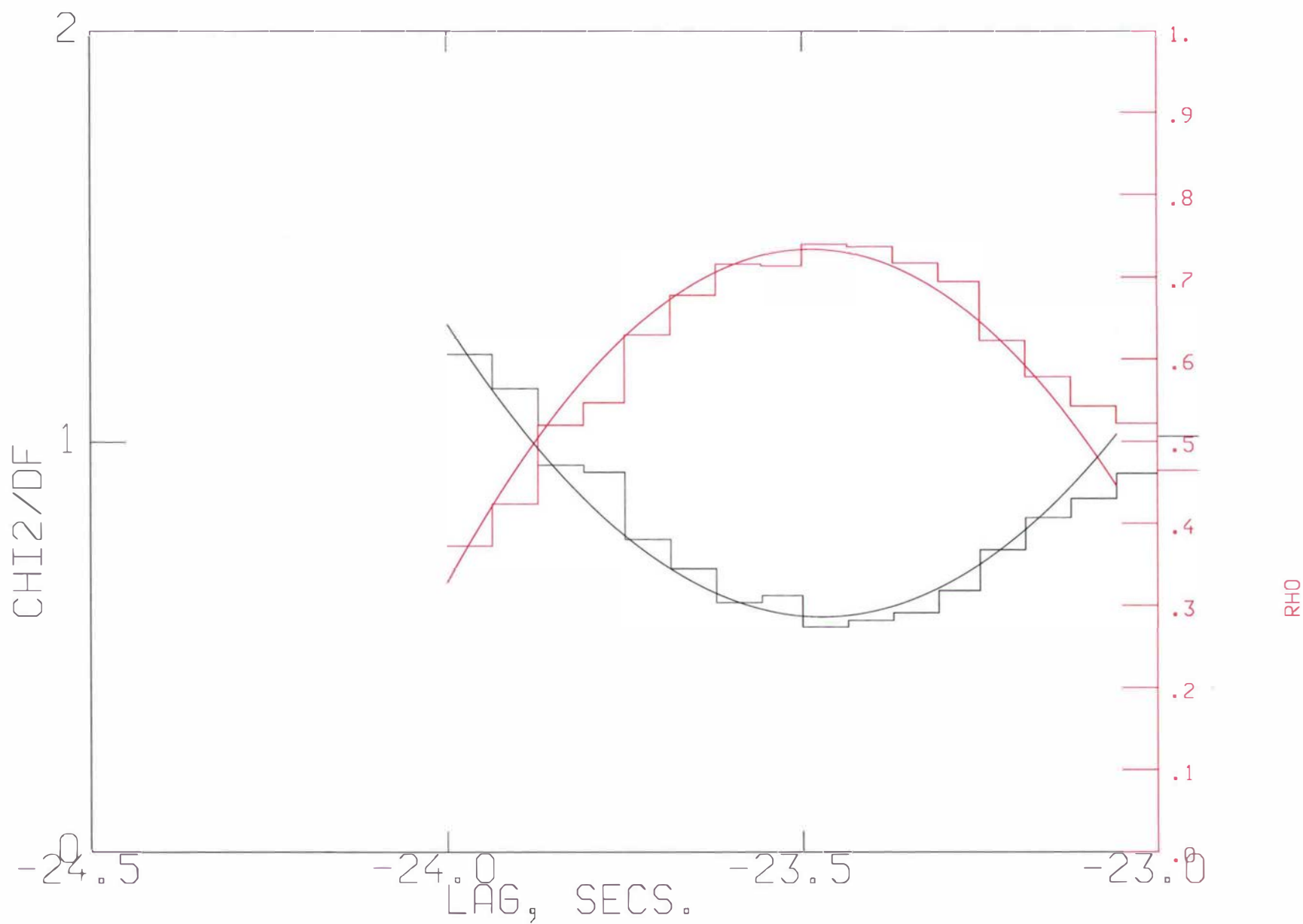
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

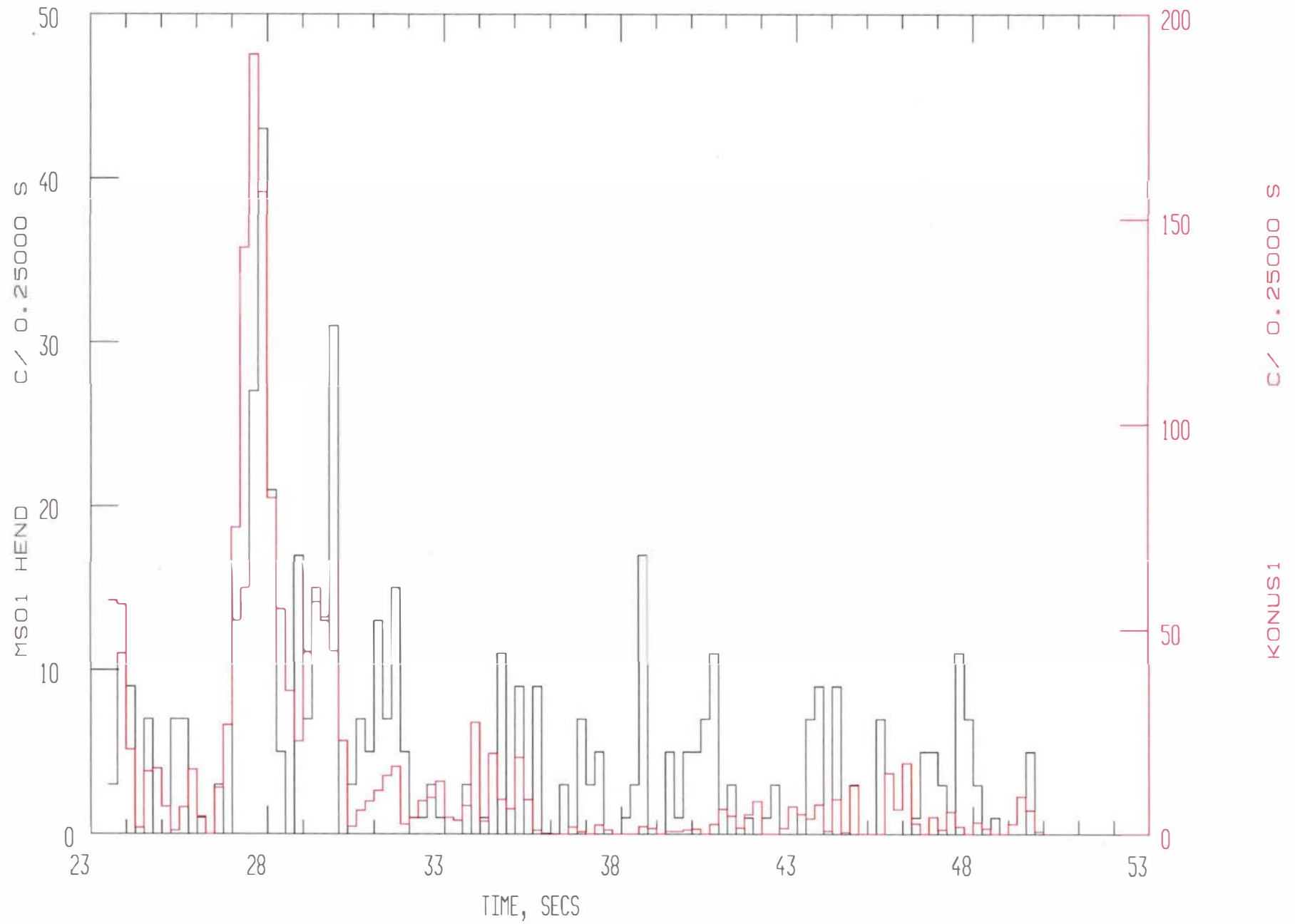
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

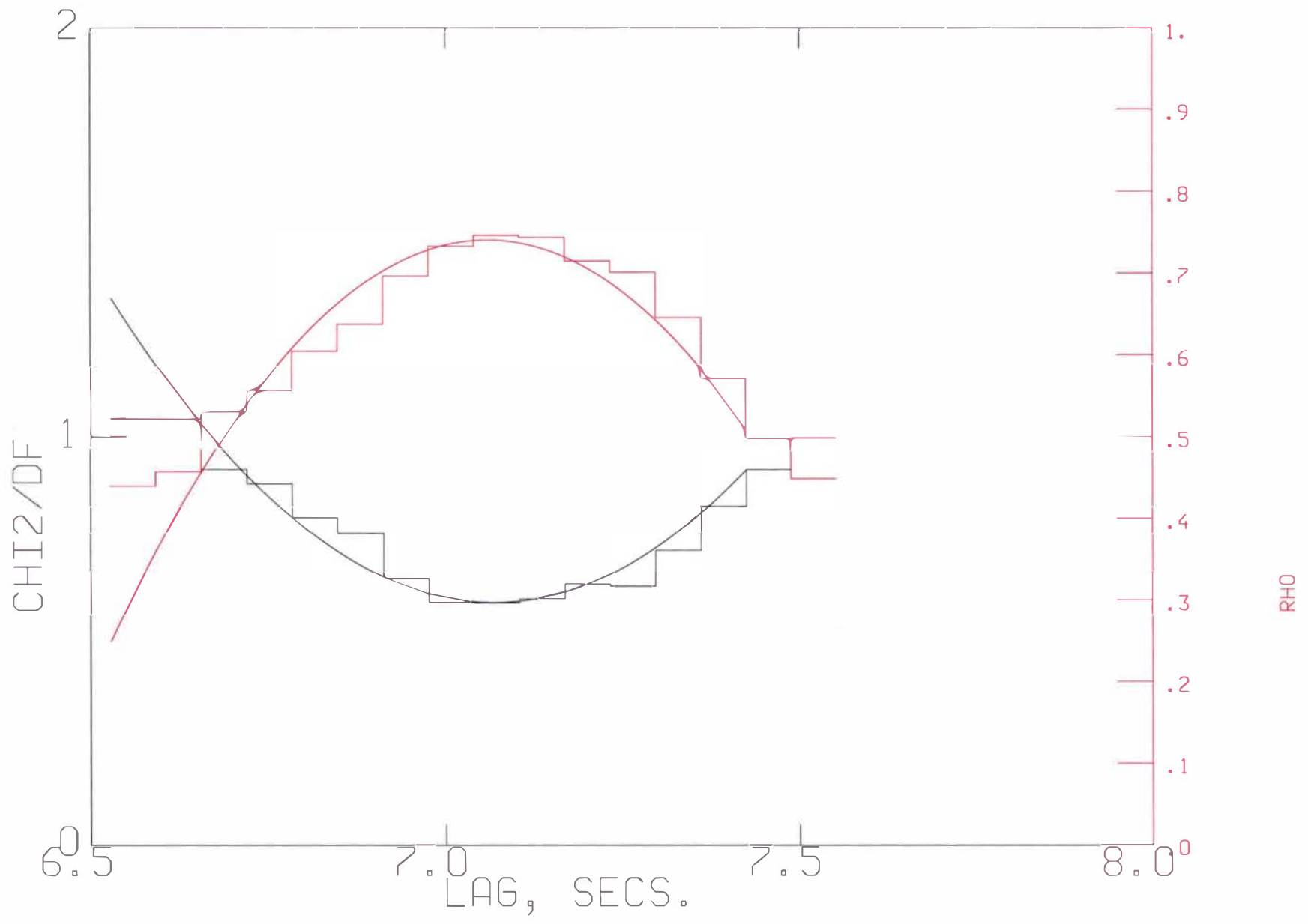
GRB110909 ~10018 S

22/07/2016









KONUS1

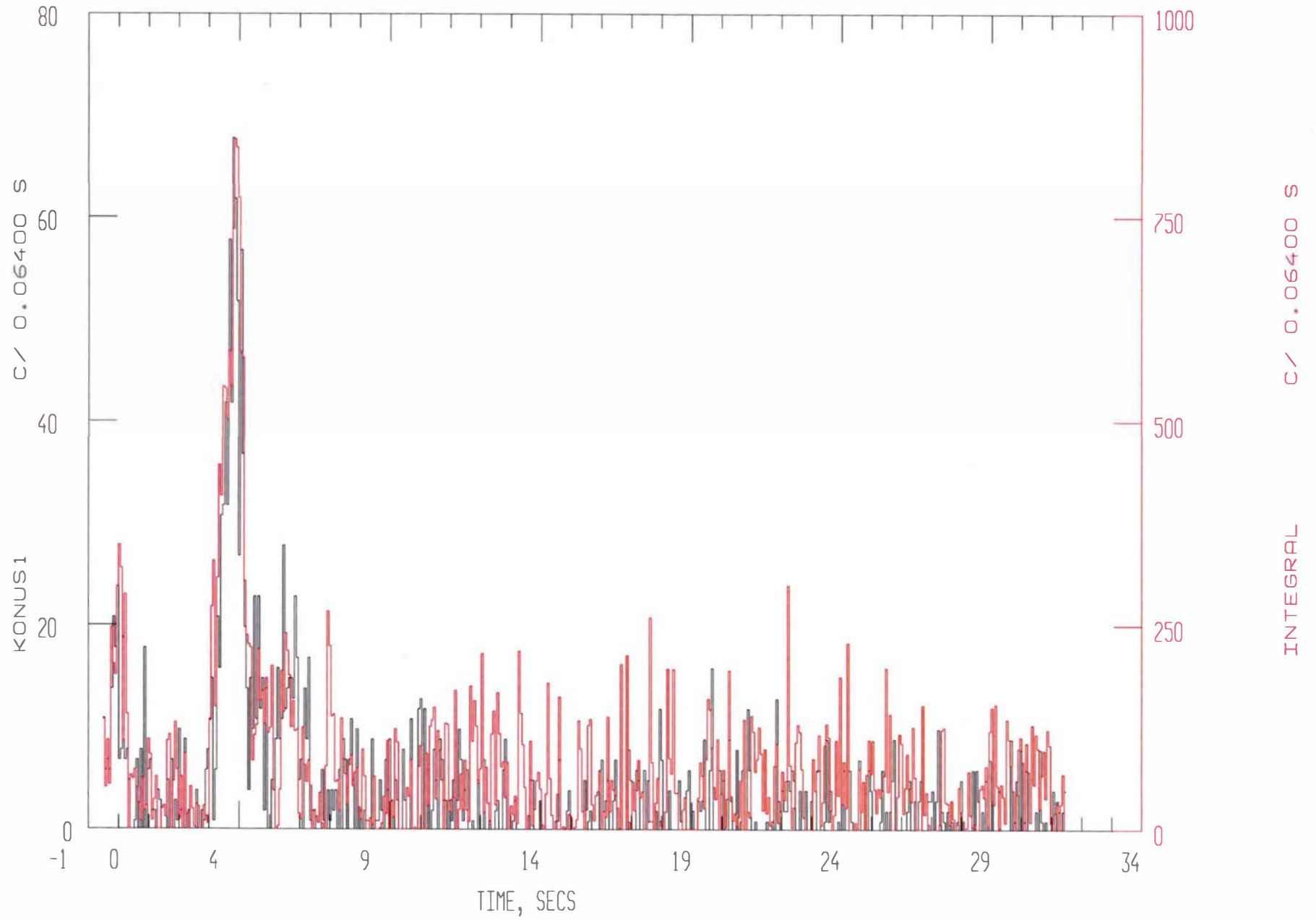
-INTEGRAL

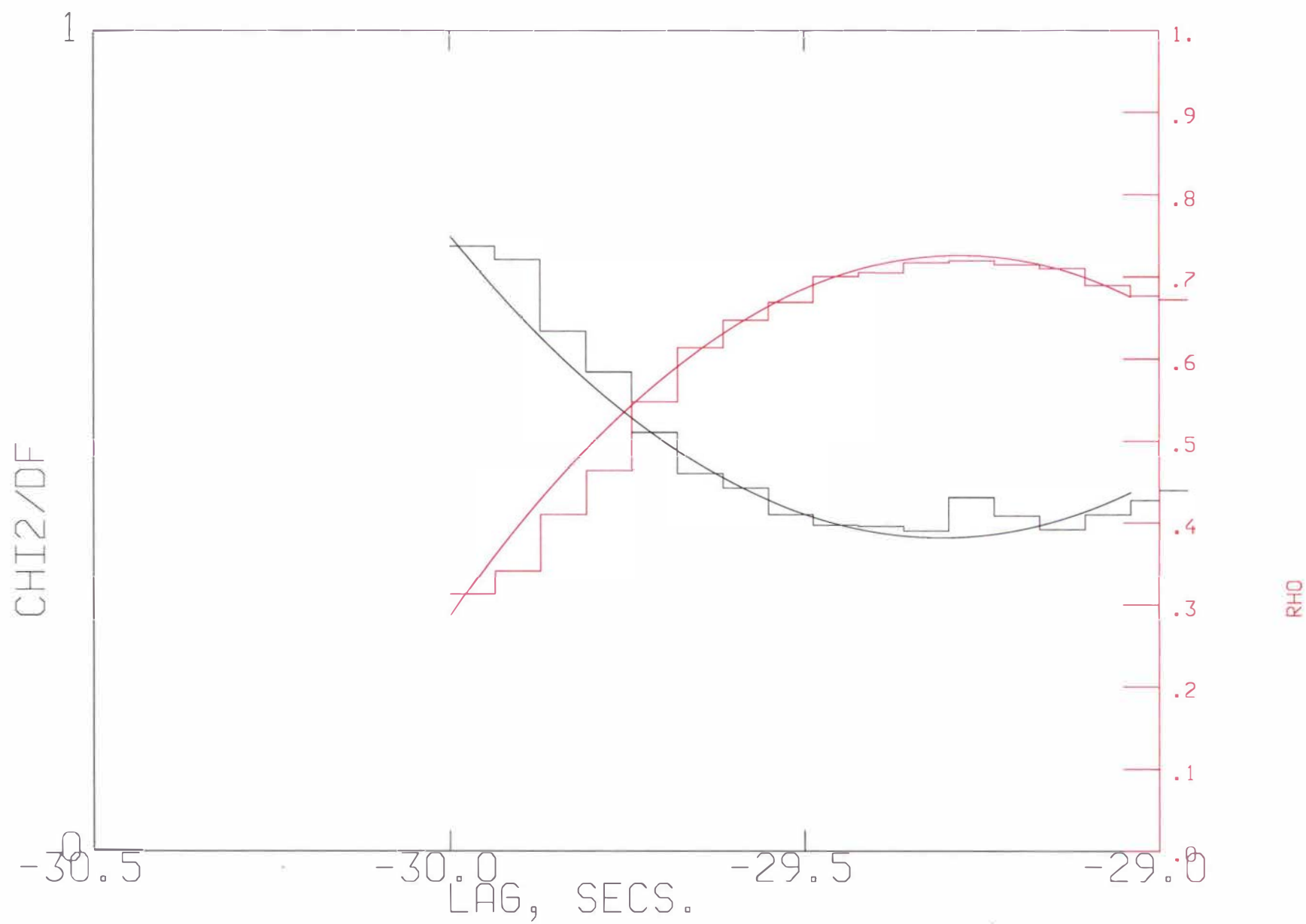
CORRELATION

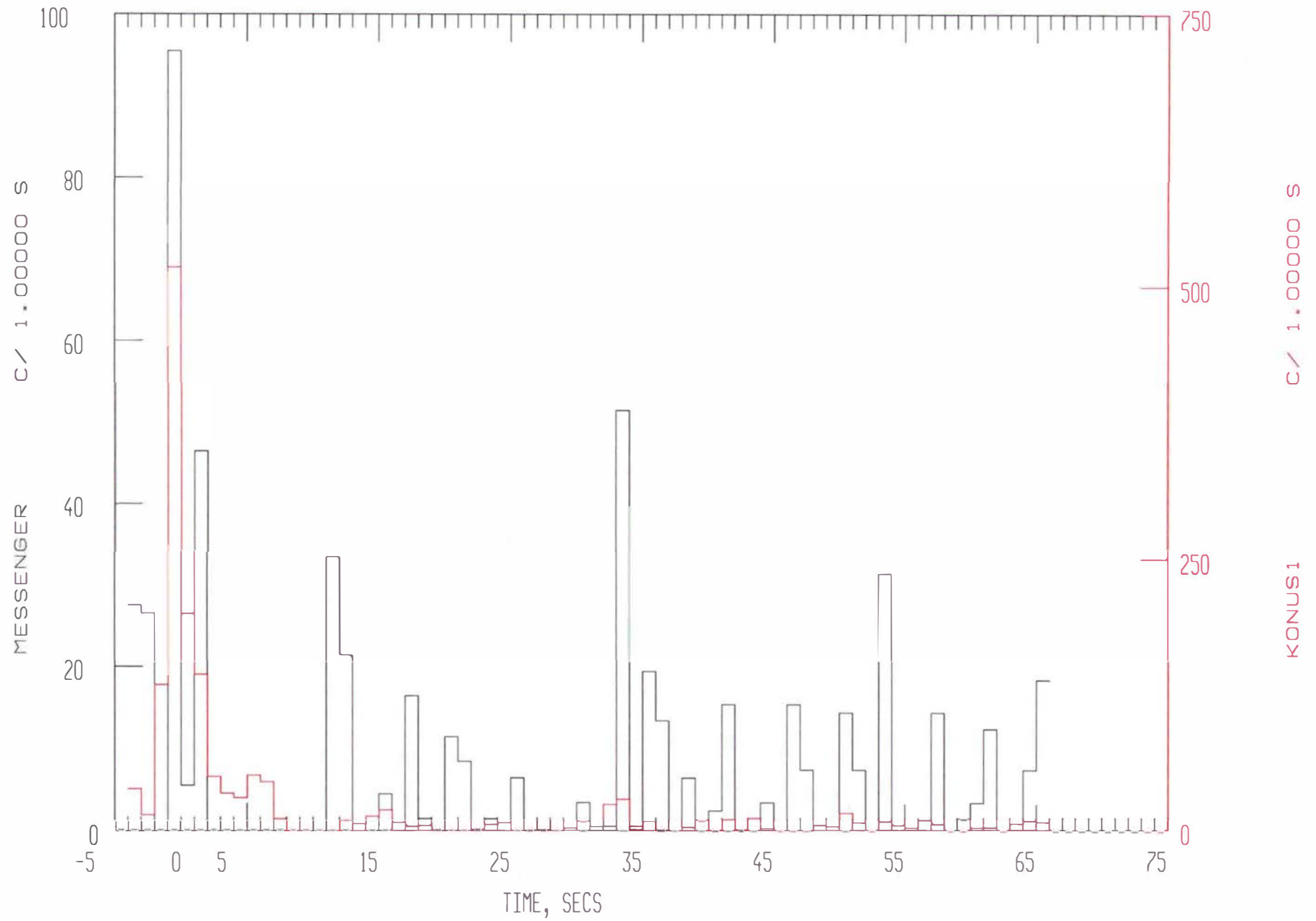
09/09/11

10022.530

22/ 7/16







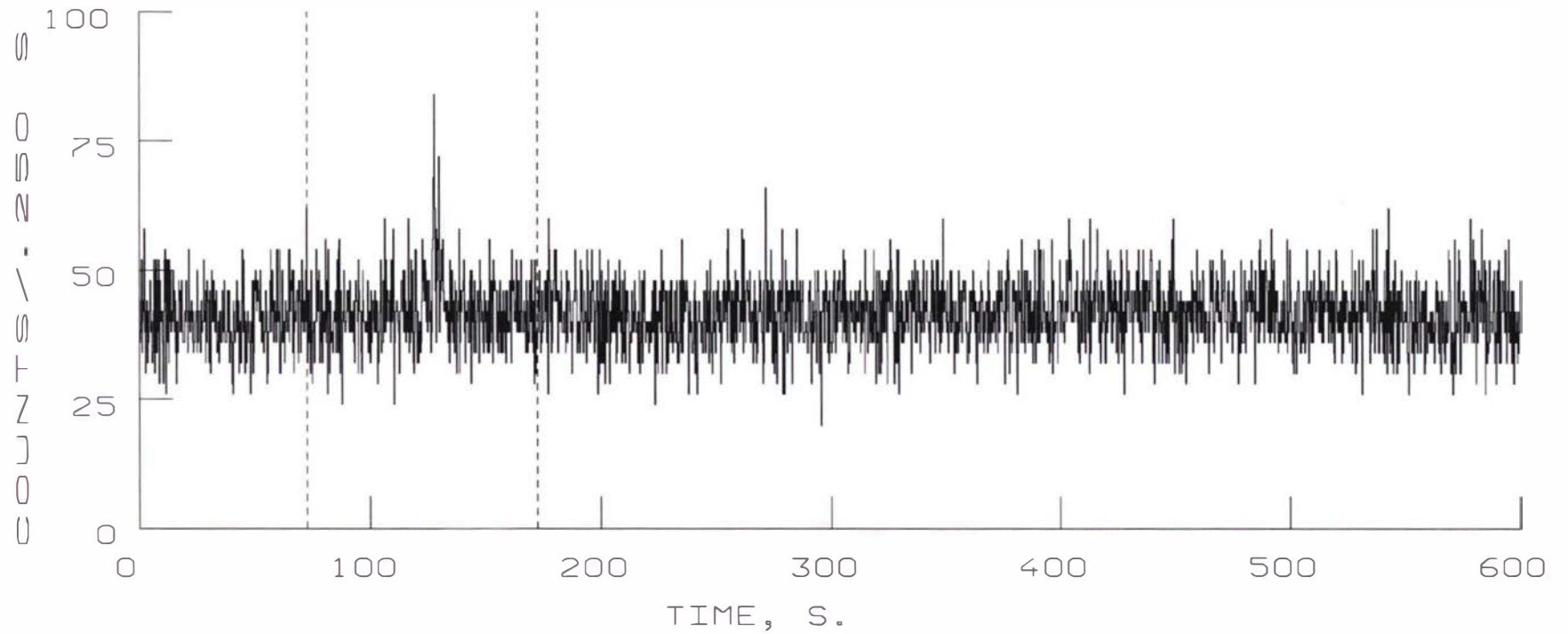
MS01 HEND

22/07/2016

09/09/2011 10597.942 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



KONUS1

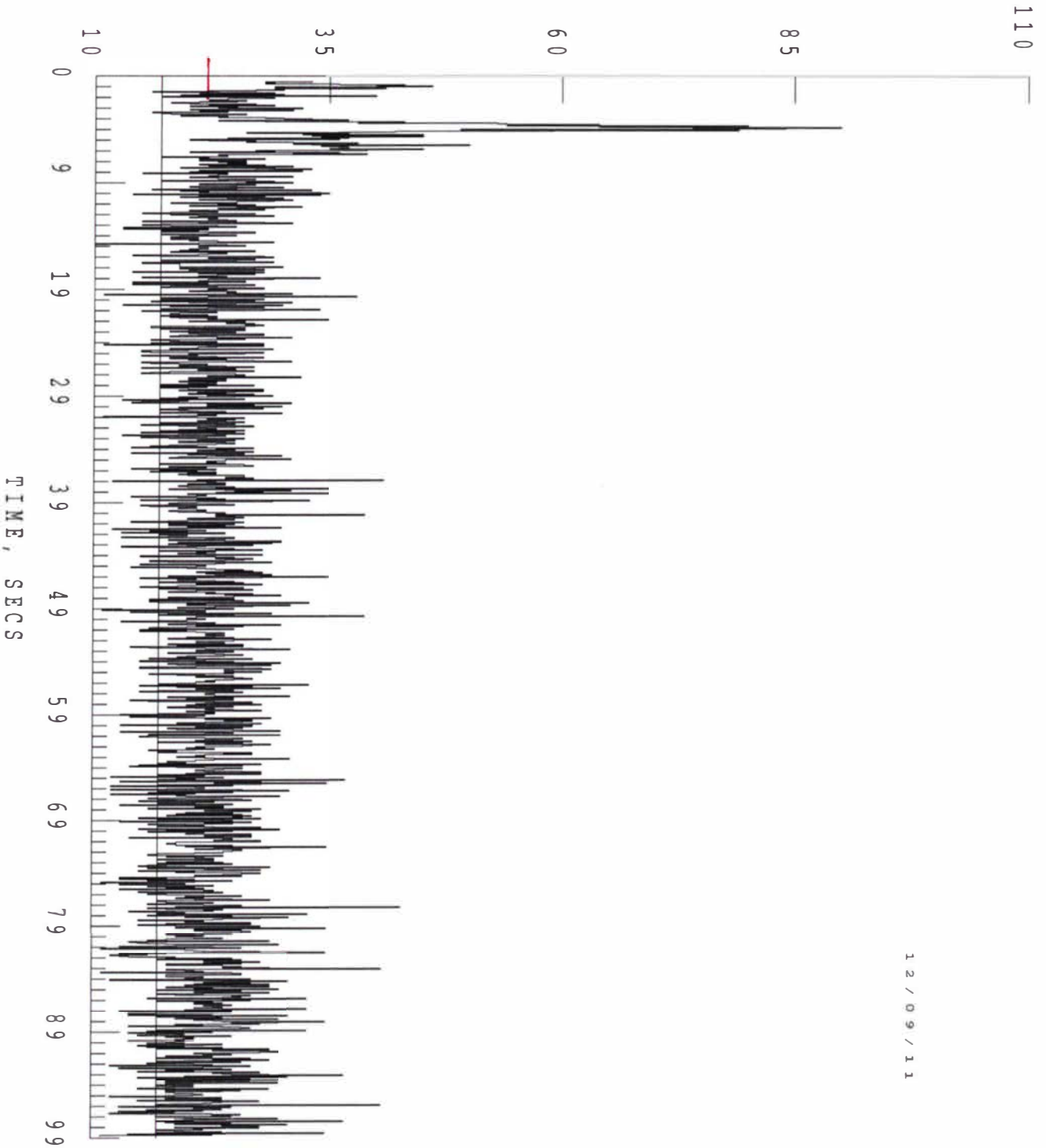
09/09/11

10022.530

A

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110909 10022

TRIGGER TIME: 09/09/11 DOY 252 Julian 2455814.61600 UT = 02.784 02:47:02 (10022.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

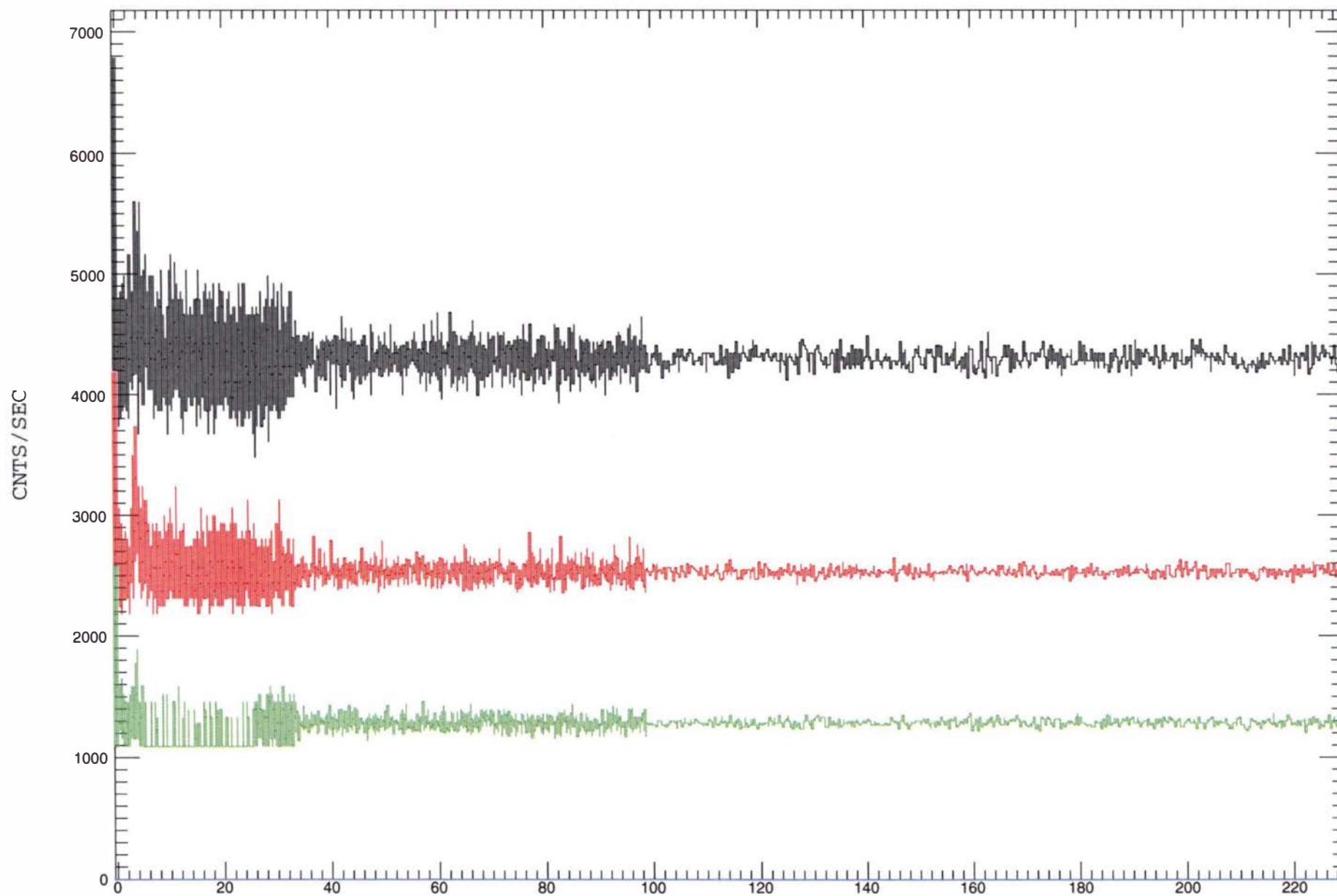
Chan 4 : [> 10 MeV]

Channel 1 + 3300

Channel 2 + 2200

Channel 3 + 1100

Channel 4 + 0



CONDS

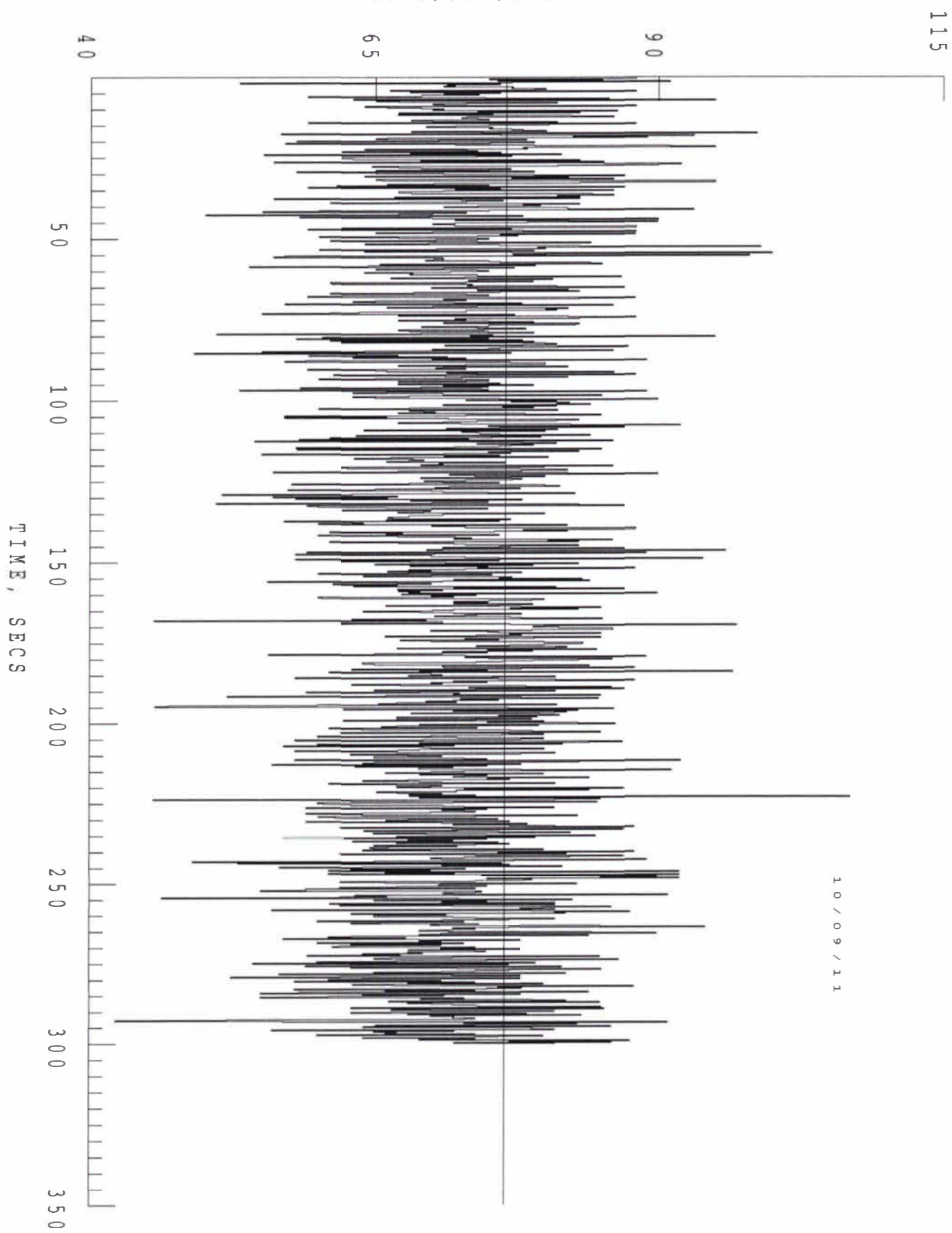
HESSI

09/09/11 9866.000 (INTEGRAL_20110909_10016)

A

25- 150 keV

COUNTS/0.250 S



INTEGRAL

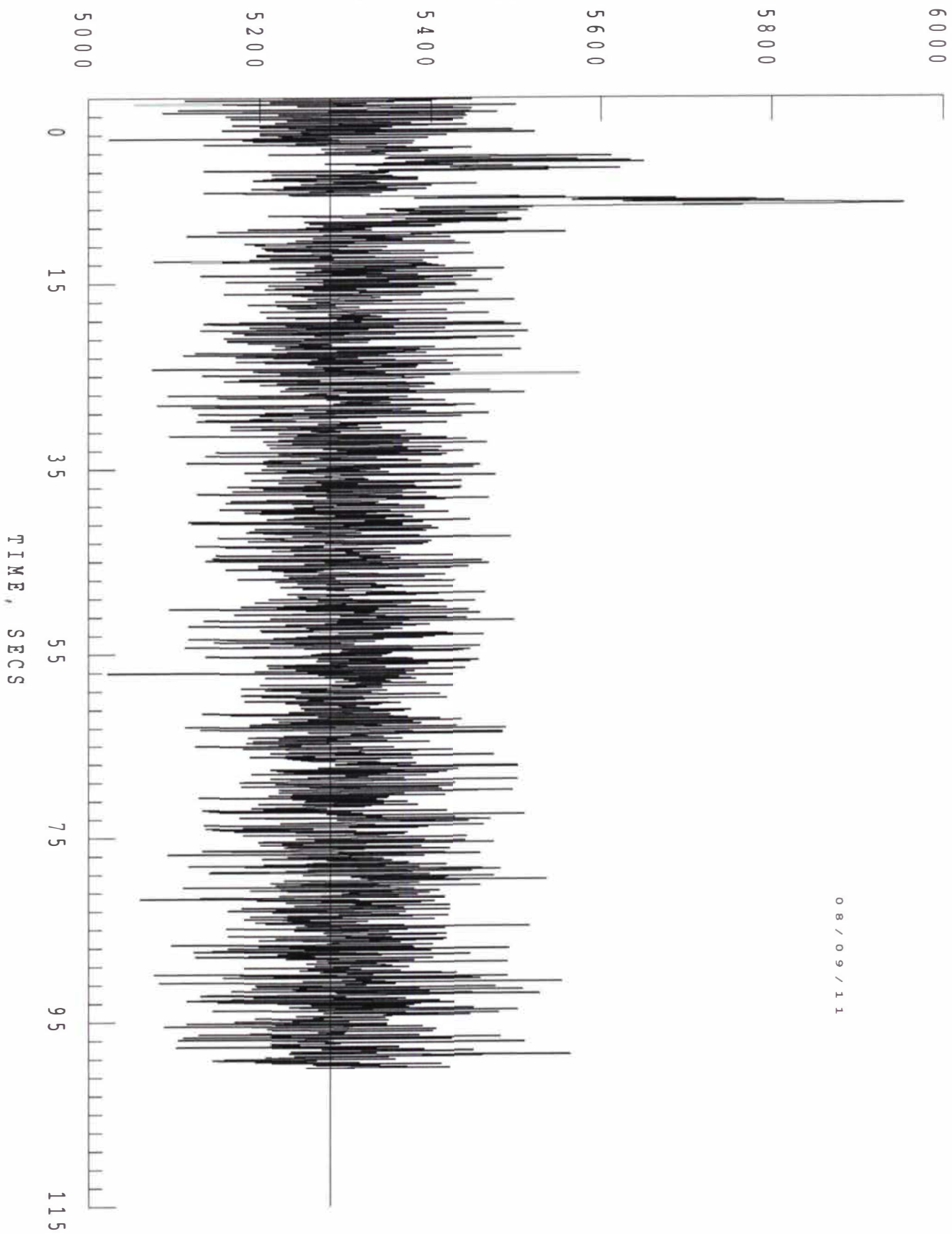
09/09/11

10016.286

A

100-10000 keV

COUNTS/0.050 S



Subject: [lpn] BAT lightcurve for trigger at 110909_0246

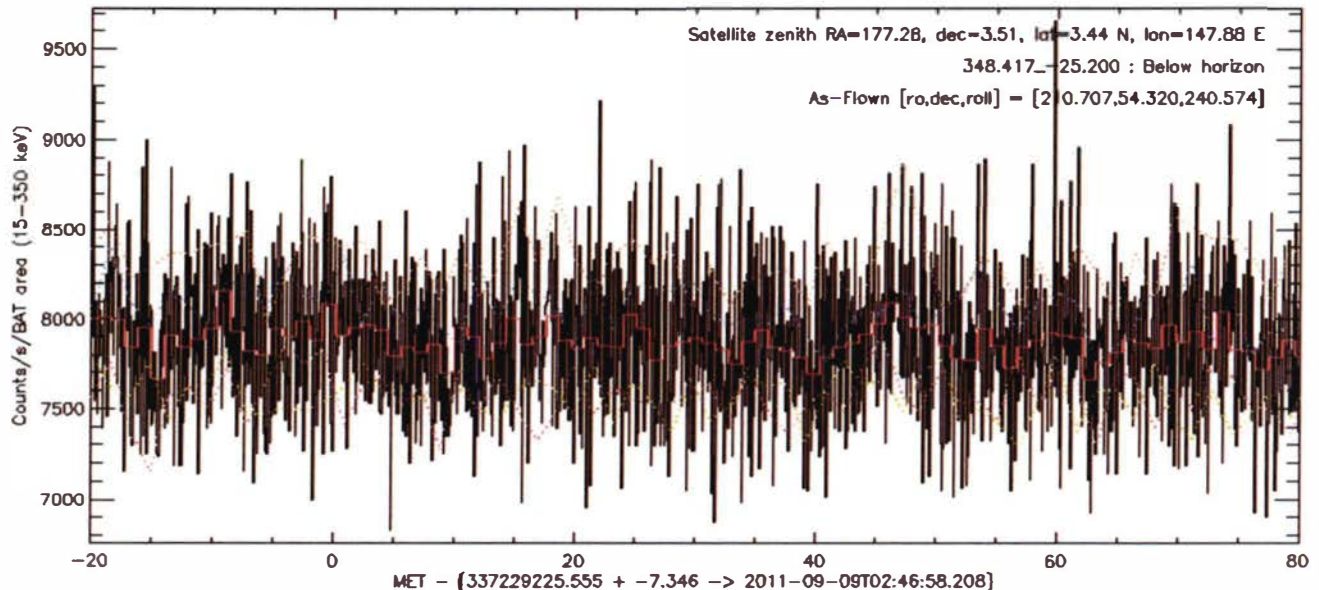
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 9 Sep 2011 05:40:37 -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/110909_0246.png



```
% /usr/local/bin/swinfo -o 337229225.553
Time(MET + UTCF -> UT): 337229225.554 + -7.346 -> 2011-09-09T02:46:58.207
Swift Zenith(RA,dec): 177.28, 3.51
Swift Location(lon,lat,alt): 147.88 E, 3.44 N, 584 km
Obs Sequence Number: 00032081030
Obs Target Name: PTF11kly
Obs Date and Times: 2011-09-09 02:41:54 - 03:03:50
Obs Pointing(ra,dec,roll): 210.707, 54.320, 240.57
```

```
% /usr/local/bin/swinfo -o 337229225.553 -s 346.170 -26.130
Time(MET + UTCF -> UT): 337229225.554 + -7.346 -> 2011-09-09T02:46:58.207
Swift Zenith(RA,dec): 177.28, 3.51
Swift Location(lon,lat,alt): 147.88 E, 3.44 N, 584 km
Obs Sequence Number: 00032081030
Obs Target Name: PTF11kly
Obs Date and Times: 2011-09-09 02:41:54 - 03:03:50
Obs Pointing(ra,dec,roll): 210.707, 54.320, 240.57
346.170_-26.130_imageloc (boresight_dist, angle): (137, 97)
346.170_-26.130_exposure (cm² cos adjusted): 0
346.170_-26.130_altitude: -41 (down)
```

```
% /usr/local/bin/swinfo -o 337229225.554 -s 348.083 -20.217
Time(MET + UTCF -> UT): 337229225.555 + -7.346 -> 2011-09-09T02:46:58.208
Swift Zenith(RA,dec): 177.28, 3.51
Swift Location(lon,lat,alt): 147.88 E, 3.44 N, 584 km
Obs Sequence Number: 00032081030
Obs Target Name: PTF11kly
Obs Date and Times: 2011-09-09 02:41:54 - 03:03:50
Obs Pointing(ra,dec,roll): 210.707, 54.320, 240.57
348.083_-20.217_imageloc (boresight_dist, angle): (133, 90)
348.083_-20.217_exposure (cm² cos adjusted): 0
348.083_-20.217_altitude: -47 (down)
```

```
% /usr/local/bin/swinfo -o 337229225.554 -s 348.417 -25.200
Time(MET + UTCF -> UT): 337229225.555 + -7.346 -> 2011-09-09T02:46:58.208
Swift Zenith(RA,dec): 177.28, 3.51
Swift Location(lon,lat,alt): 147.88 E, 3.44 N, 584 km
Obs Sequence Number: 00032081030
Obs Target Name: PTF11kly
```


[Ipn] BAT lightcurve for trigger at 110909_0246

Obs Date and Times: 2011-09-09 02:41:54 - 03:03:50
Obs Pointing(ra,dec,roll): 210.707, 54.320, 240.57
348.417_-25.200_imageloc (boresight_dist, angle): (137, 94)
348.417_-25.200_exposure (cm² cos adjusted): 0
348.417_-25.200_altitude: -43 (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/110909_0246.png	Content-Type: image/png
	Content-Encoding: base64

/tmp/110909_0246_bat64ms_ipn

/tmp/110909_0246_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

29/11/11

MESSENGER

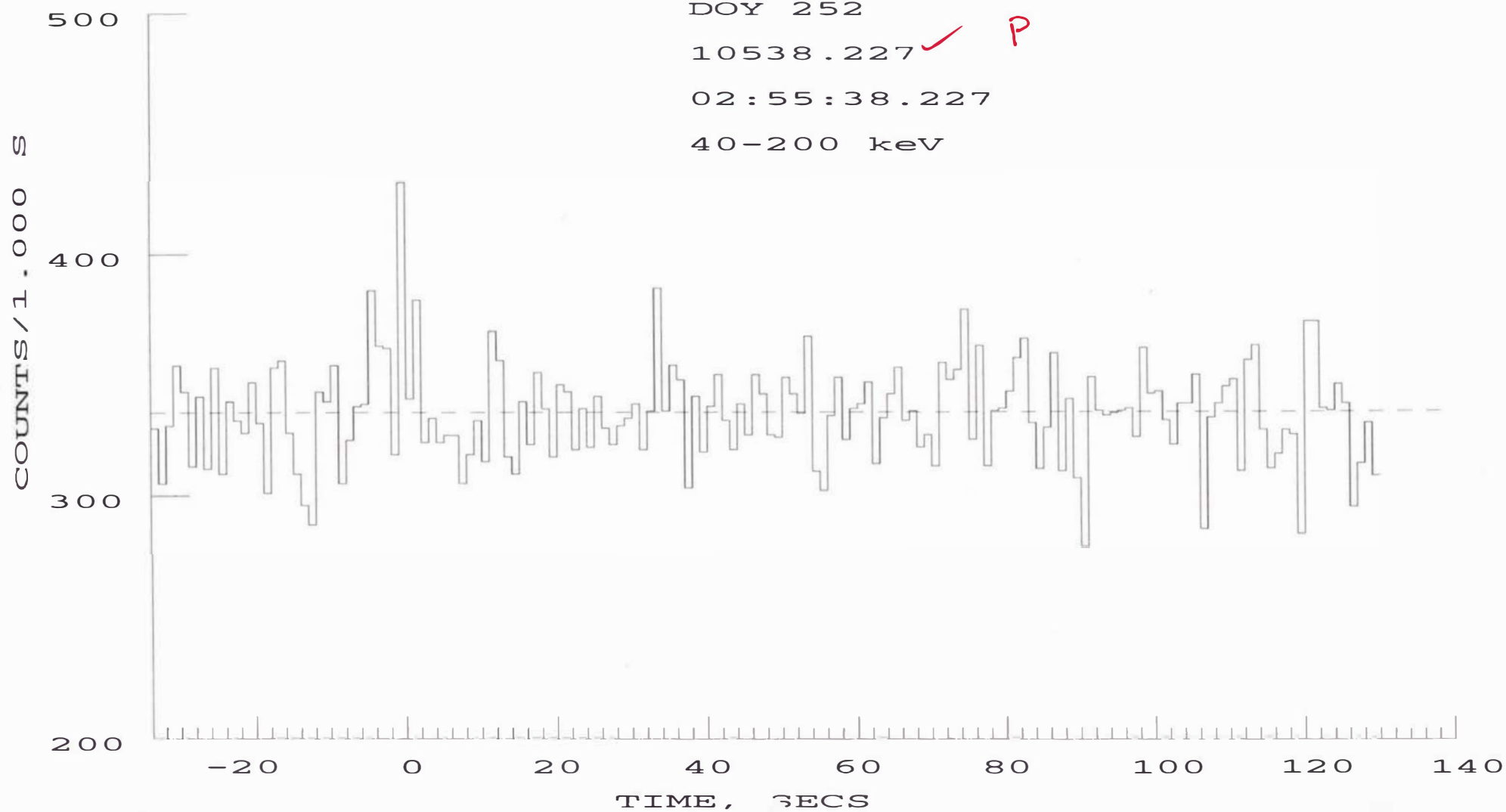
09/09/11

DOY 252

10538.227 ✓ P

02:55:38.227

40-200 keV



GLAST

09/09/11

10018.190

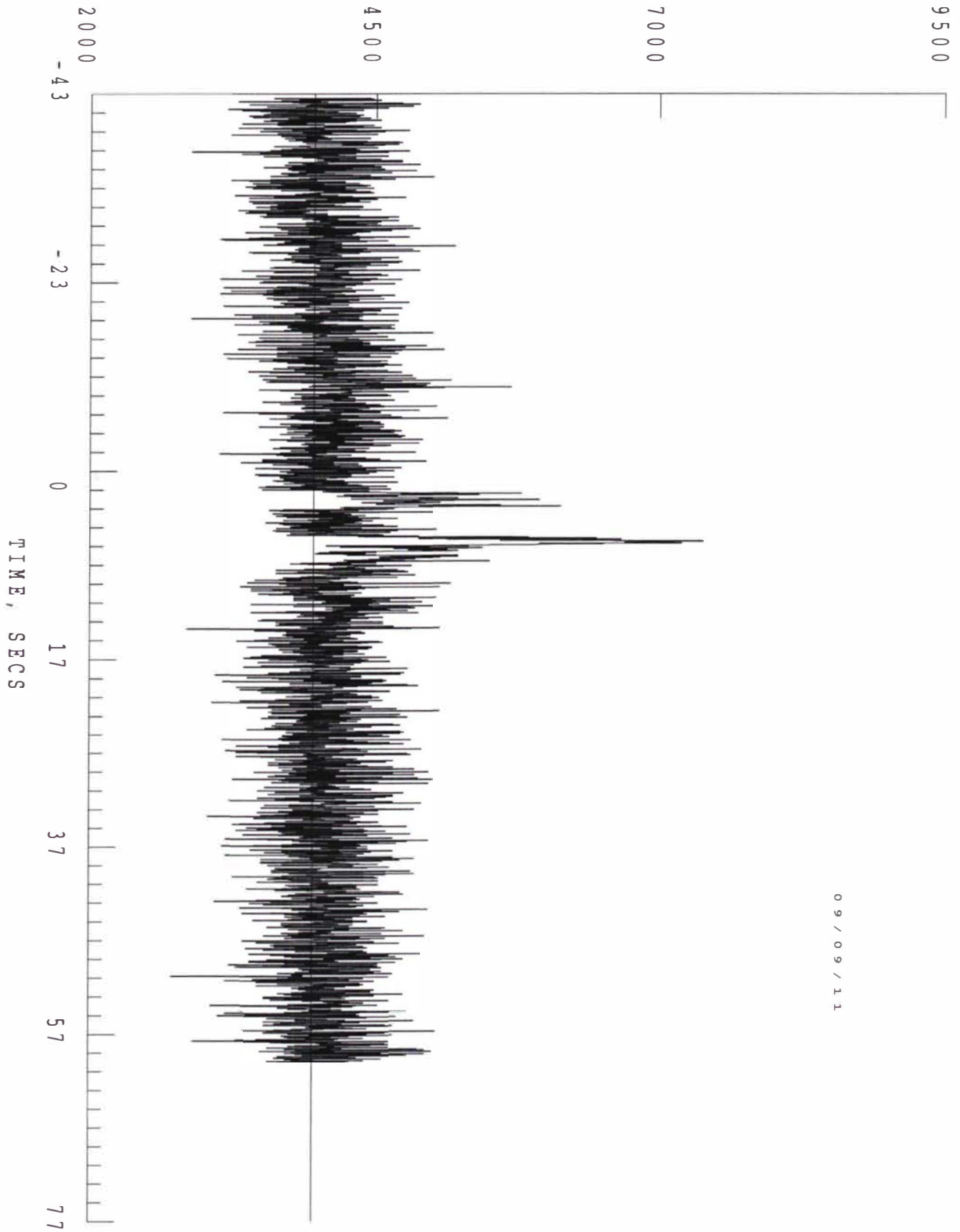
02:46:58

A

26 - 293 keV

347.34 -23.78 1.98

COUNTS/0.032 S



GLAST

09/09/11

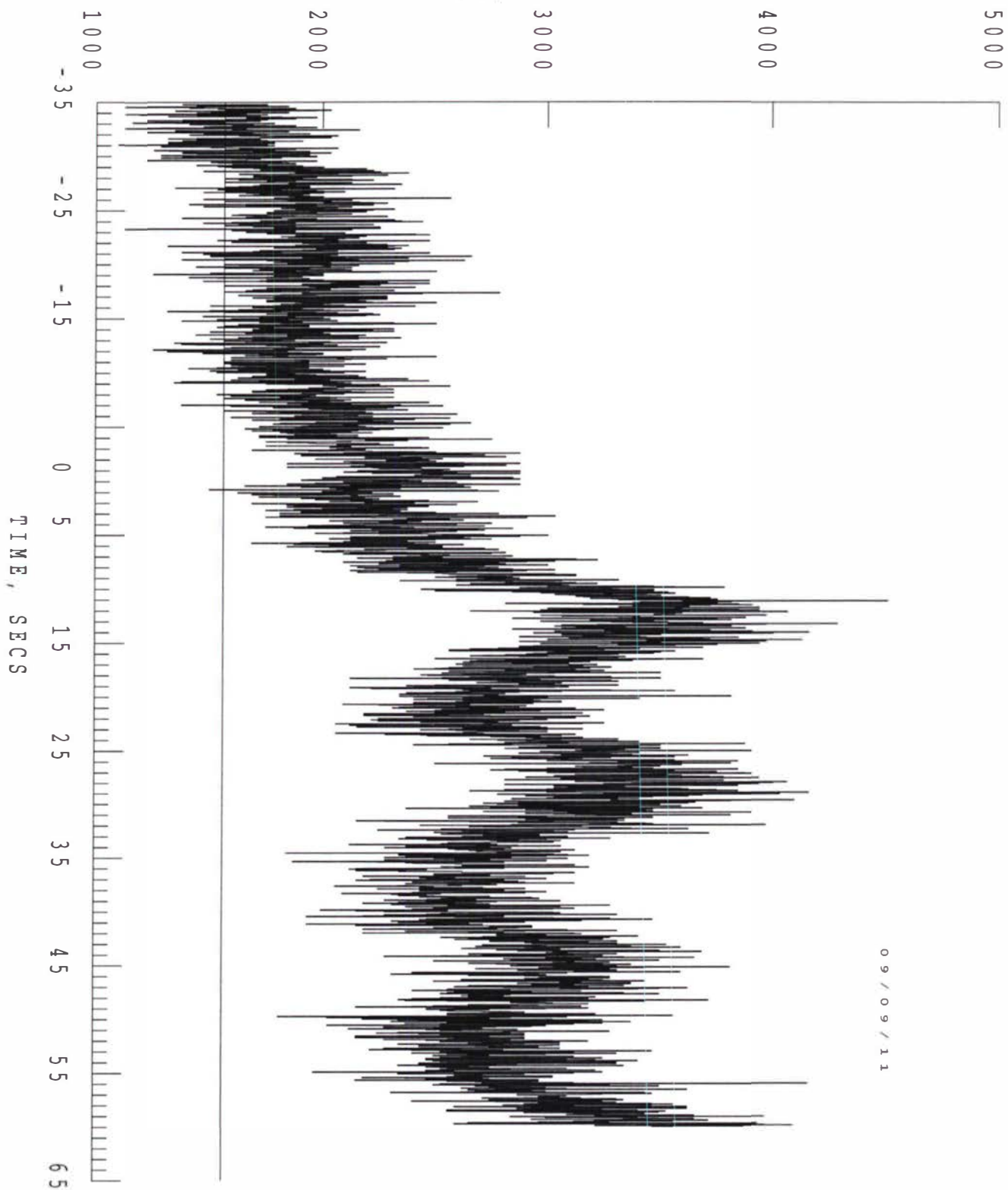
21901.165

Solar

B

26 - 293 keV

COUNTS/0.032 S

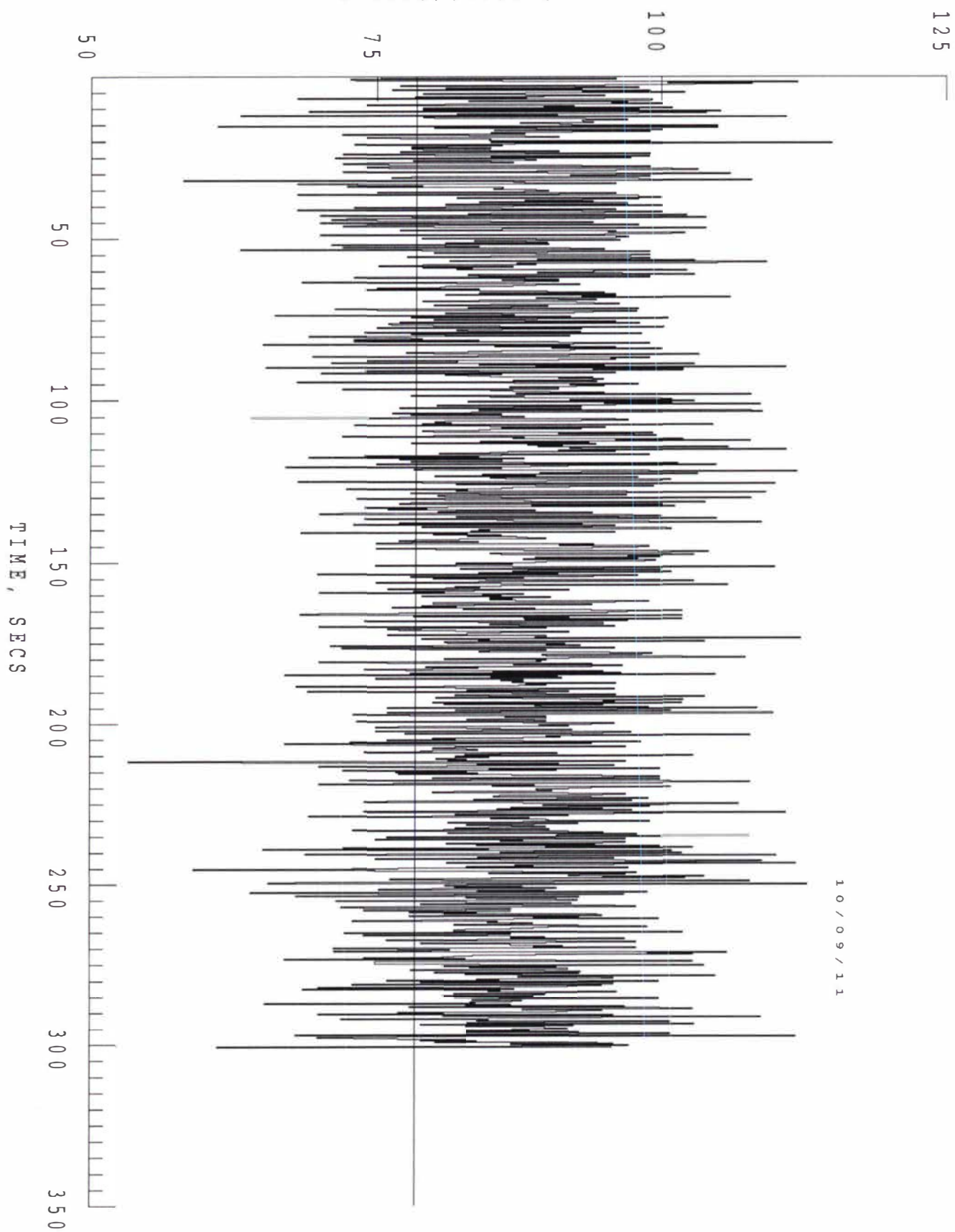


HESSI

09/09/11 21750.000 (GLAST_20110909_21901)

25- 150 keV

COUNTS/0.250 S



B

Subject: [lpn] BAT lightcurve for trigger at 110909_0605

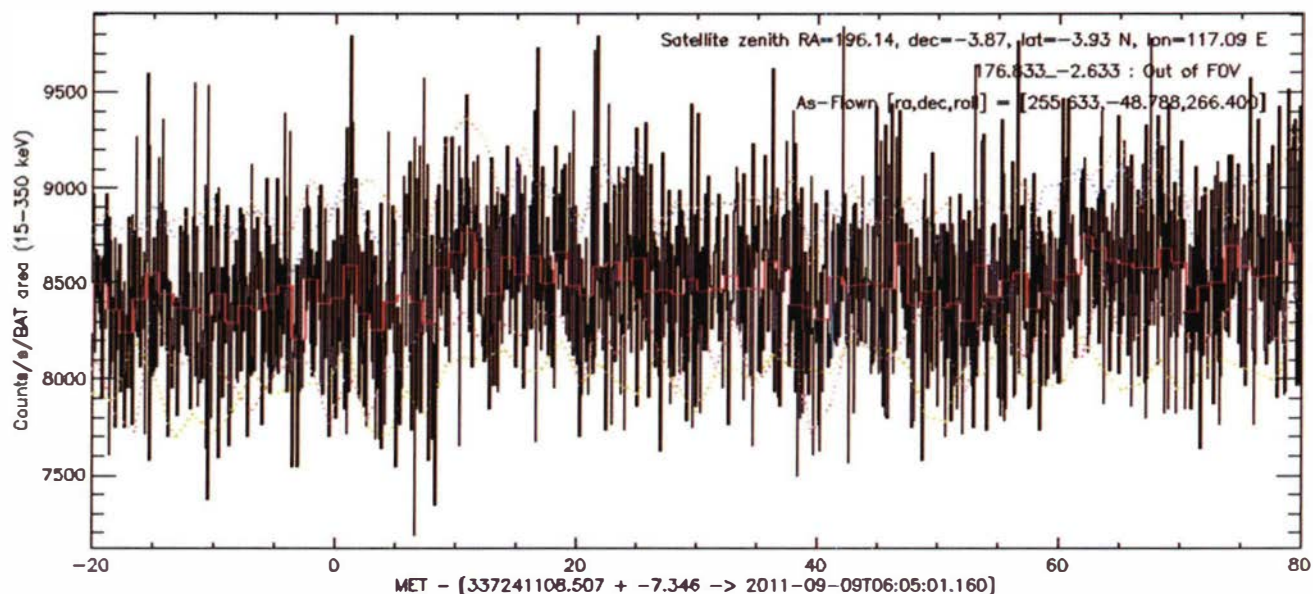
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 9 Sep 2011 09:04:16 -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/110909_0605.png



21901

```
% /usr/local/bin/swinfo -o 337241108.506 -s 176.833 -2.633
Time(MET + UTCF -> UT):      337241108.507 + -7.346 -> 2011-09-09T06:05:01.160
Swift Zenith(RA,dec):        196.14, -3.87
Swift Location(lon,lat,alt):  117.09 E, -3.93 N, 589 km
Obs Sequence Number:         00031931024
Obs Target Name:              GX 339-4
Obs Date and Times:           2011-09-09 06:00:54 - 06:15:52
Obs Pointing(ra,dec,roll):    255.633, -48.788, 266.40
176.833_-2.633_imageloc (boresight_dist, angle): (81, -80)
176.833_-2.633_exposure (cm^2 cos adjusted): 0
176.833_-2.633_altitude: 94 (up)
```

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

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

/tmp/110909_0605_bat64ms_ipn

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

/tmp/110909_0605.png

/tmp/110909_0605.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

B

29/11/11

MESSENGER

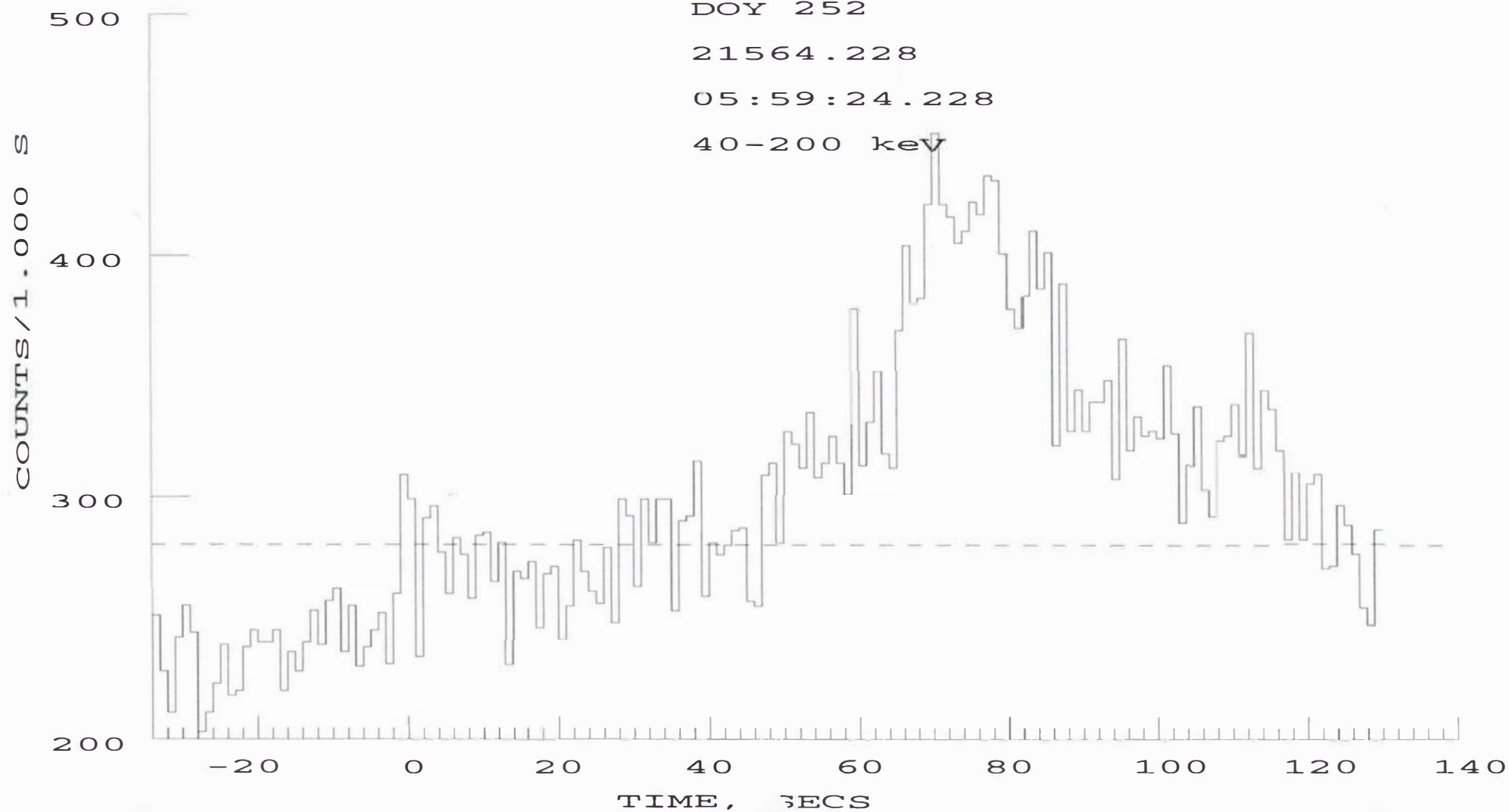
09/09/11

DOY 252

21564.228

05:59:24.228

40-200 keV



SUZAKU

09/09/11

72568.214

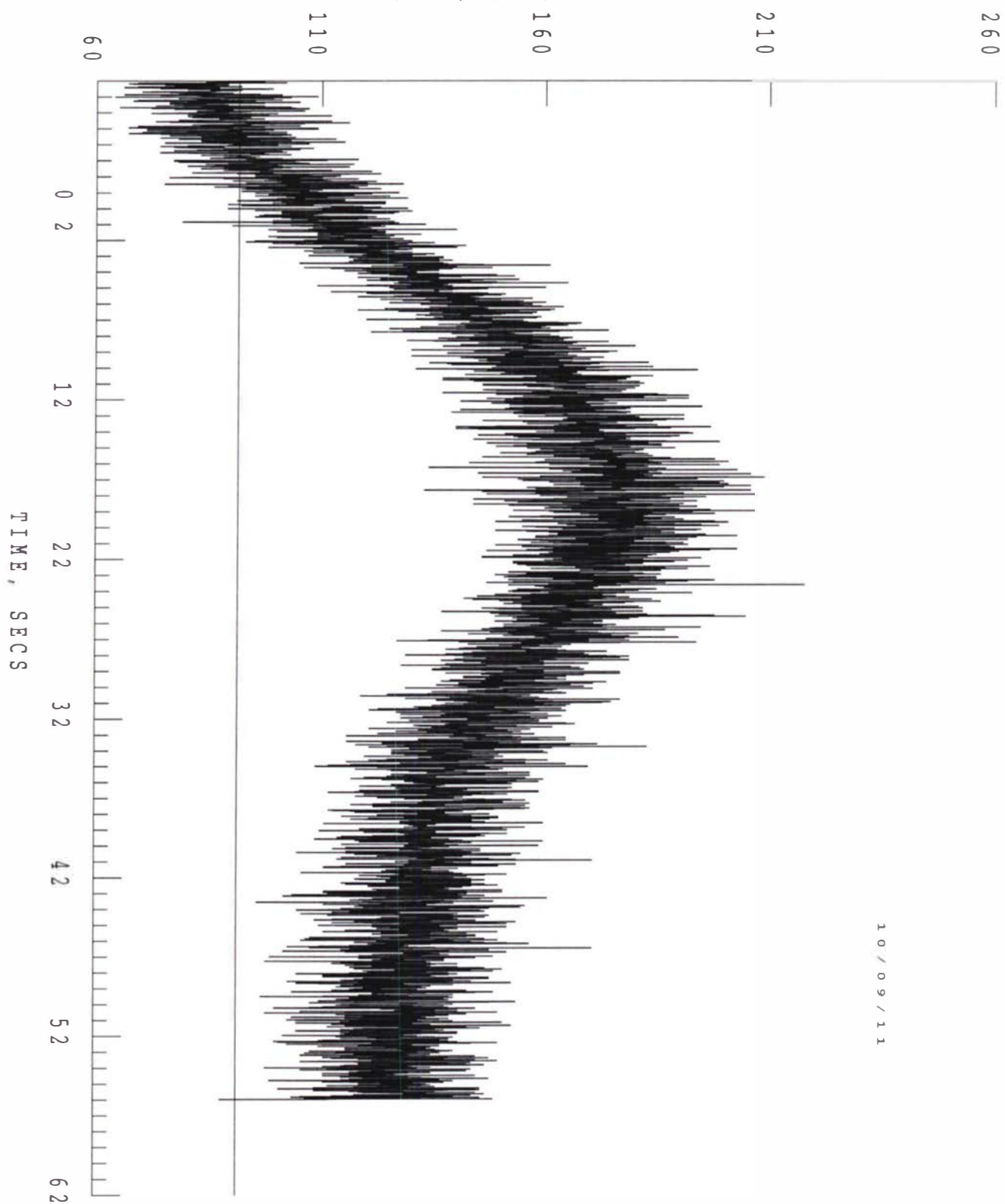
20:09:28

C

50 - 240 keV

Particles

COUNTS/0.016 S



From yamaoka@phys.aoyama.ac.jp Wed Nov 23 06:13:26 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Wed, 23 Nov 2011 23:16:34 +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: event on September 9
X-Ucb-Scan-Signature: 0fffebc39b34d307dc1a10093d734706d0b231ee
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.

Hi Kevin,

Yes, the time is correct.

I judged this event as particles and excluded it in my list
because 1)the energy spectrum is soft, 2)the light curve is
very smooth, and 3)similar count rates are seen in the four detectors.

Best wishes,
Kazu

On Tue, 22 Nov 2011 11:16:36 -0800 (PST)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear Kazu,

> I have a Suzaku trigger on September 9, 2011 at 72568 s which is not in your
> list. It looks like it could be solar, or particles. Do you know what it
> is, and if the date and time are correct?

>

> Kevin

--

Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>

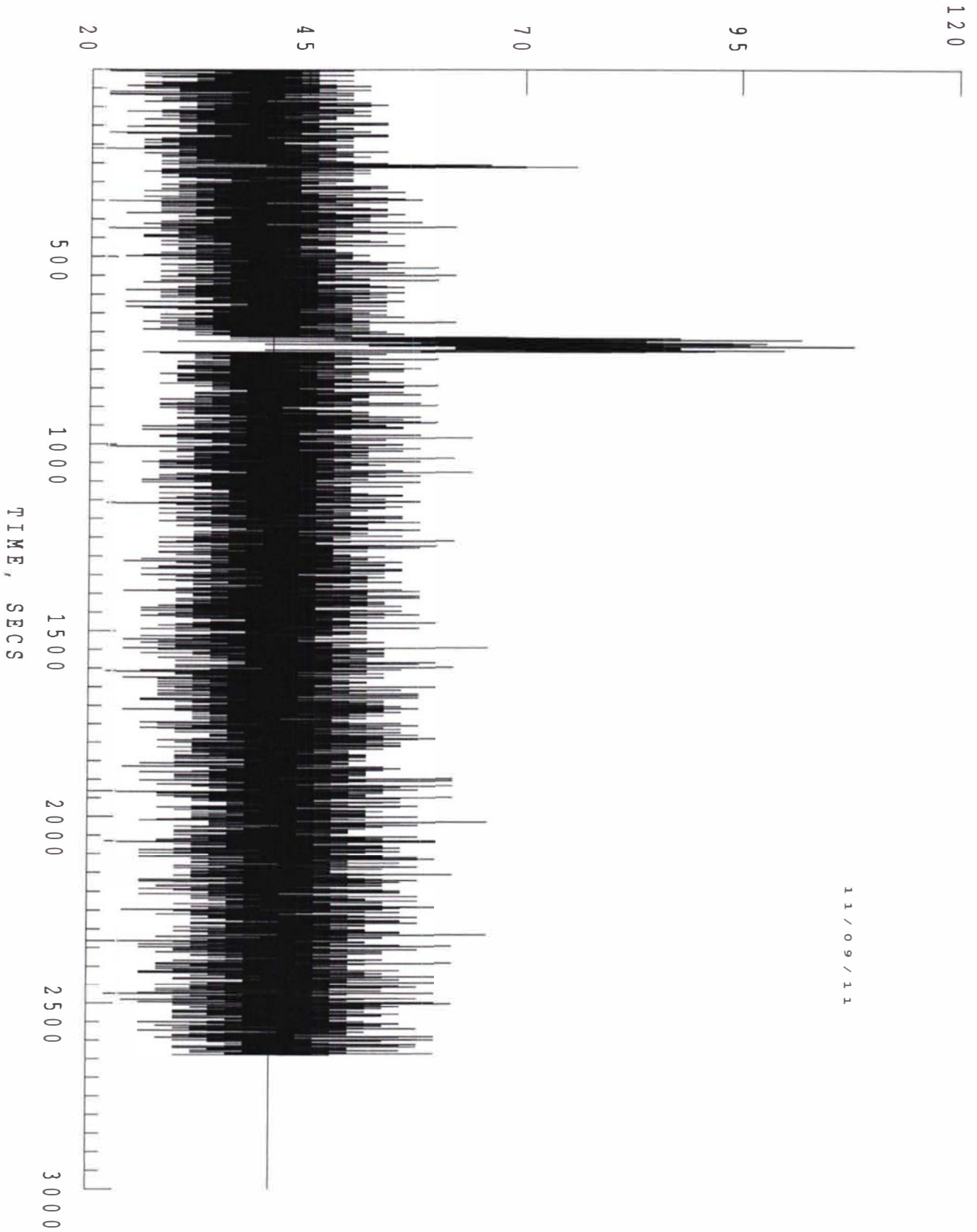
MS01

09/09/11

71257.060

50 - 3000 keV

COUNTS/0.250 S

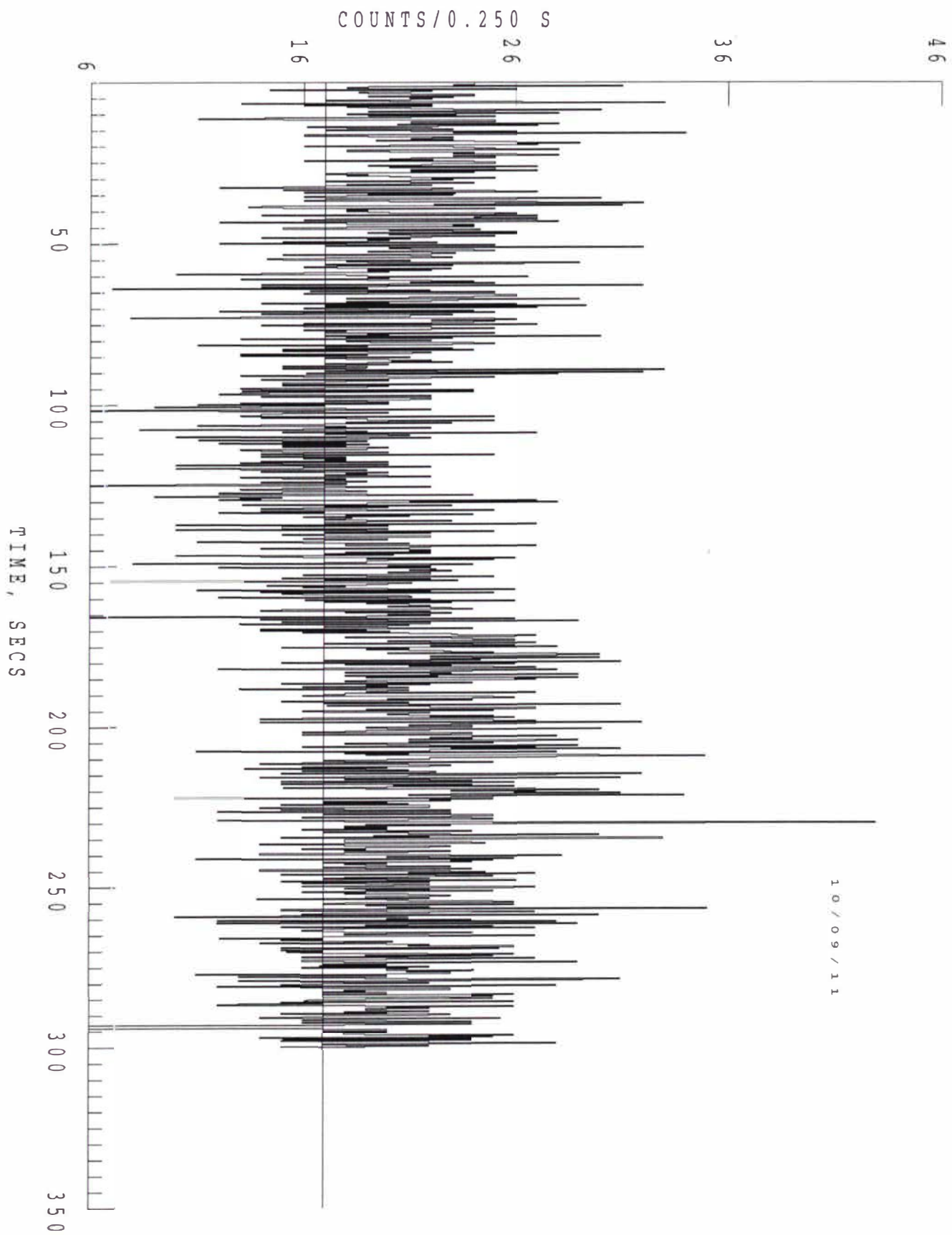


HESSI

09/09/11 72418.000 (SUZAKU_20110909_72568)

C

25- 150 keV



29/11/11

MESSENGER

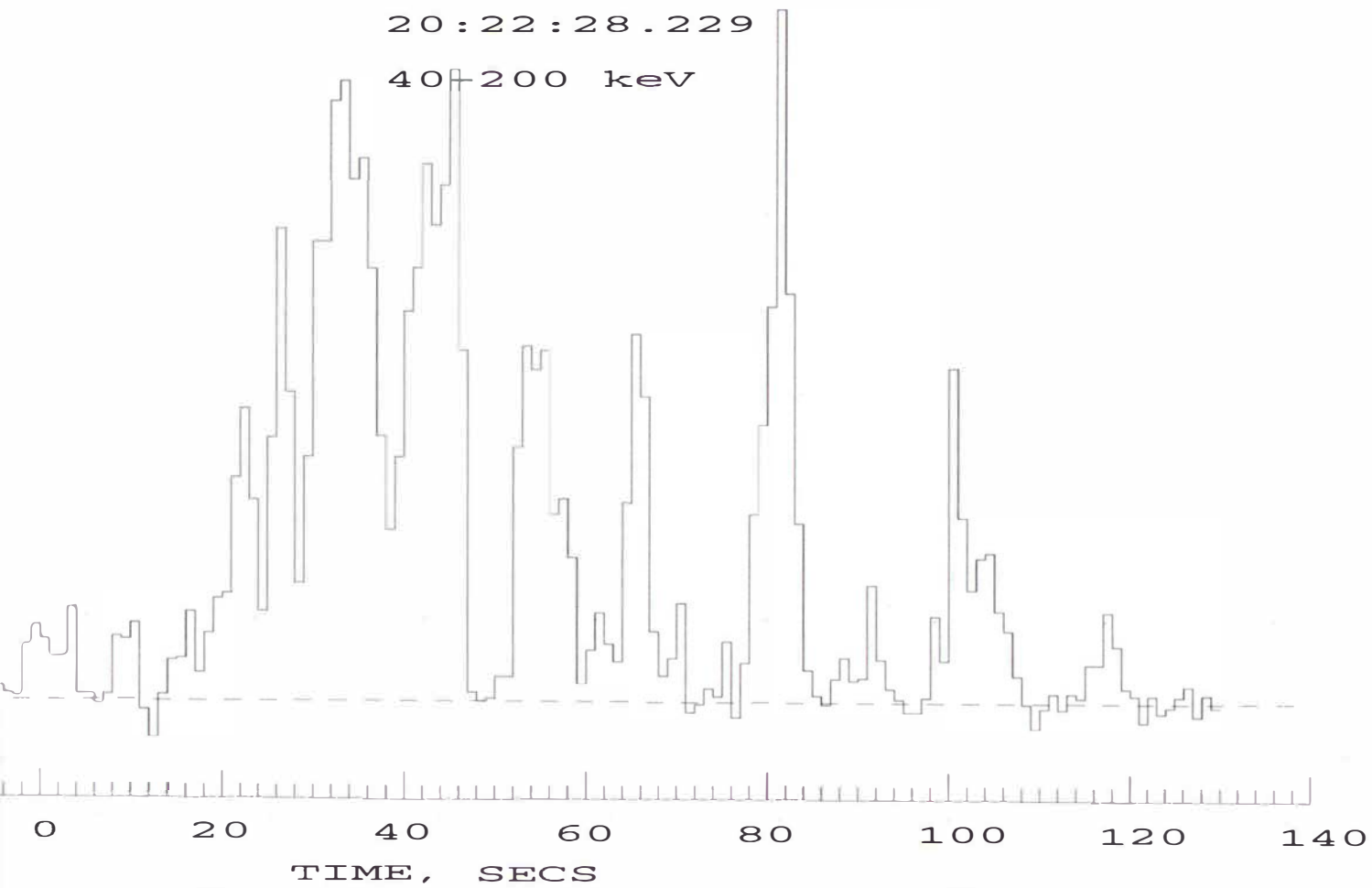
09/09/11

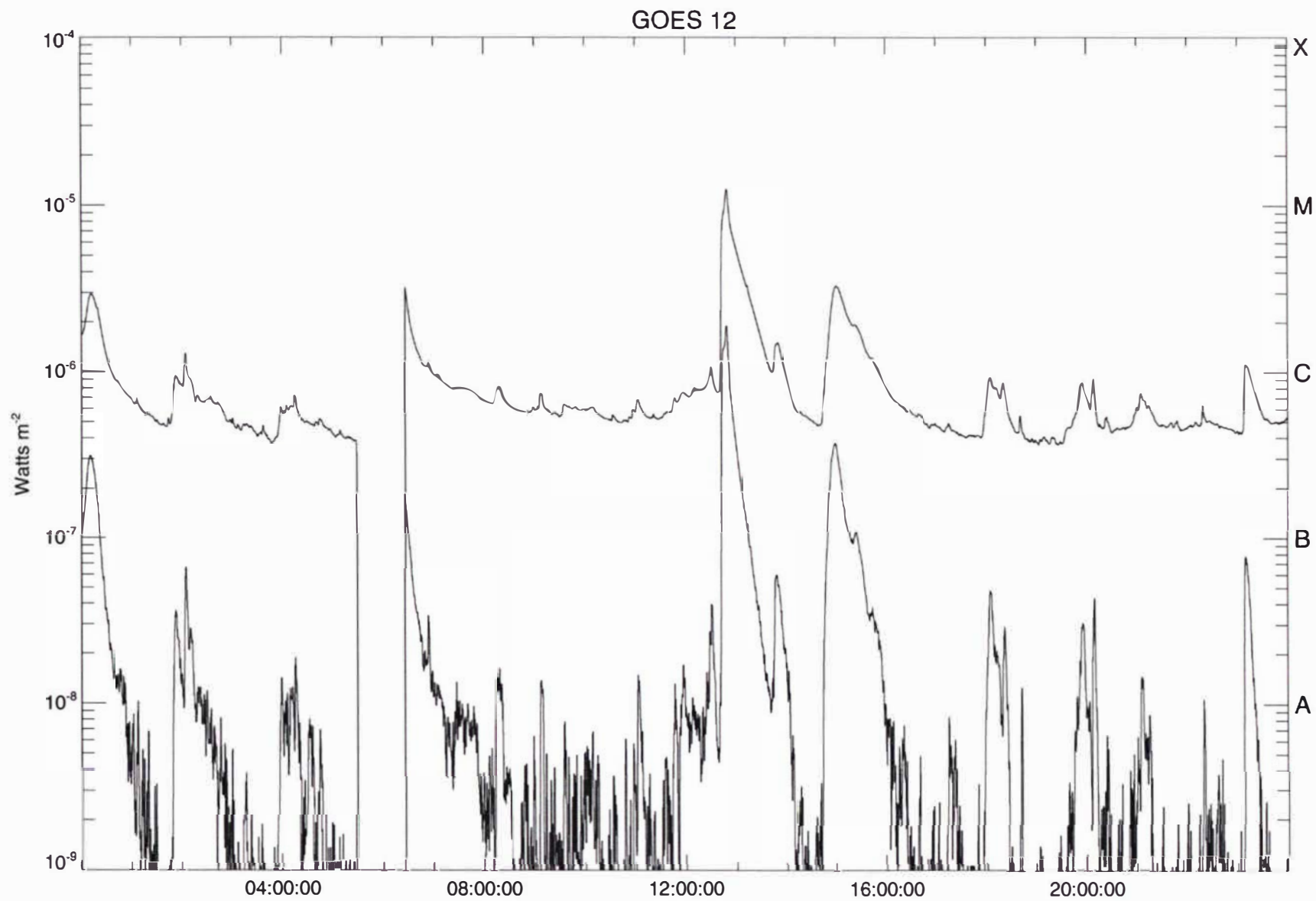
DOY 252

73348.229

20:22:28.229

40-200 keV





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

Plot created: 11/09/12, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: [Ipn] BAT lightcurve for trigger at 110910_0225

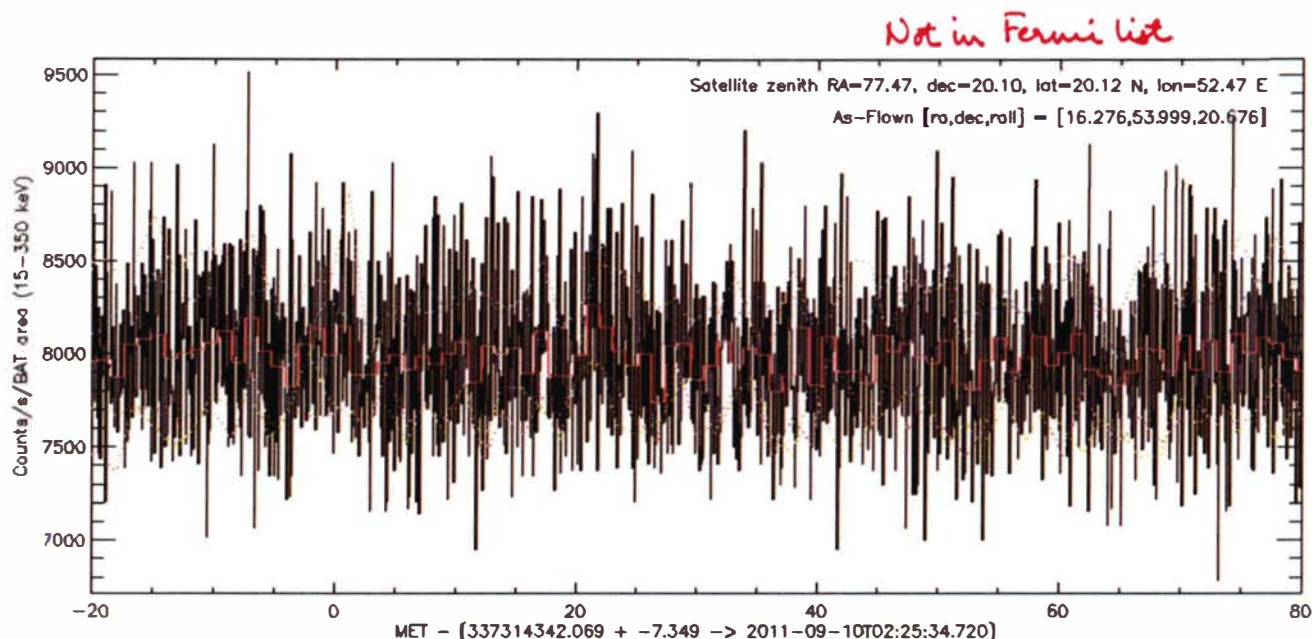
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 10 Sep 2011 05:16:47 -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

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/tmp/110910_0225.png



```
% /usr/local/bin/swinfo -o 337314342.069
Time(MET + UTC -> UT):      337314342.069 + -7.349 -> 2011-09-10T02:25:34.720
Swift Zenith(RA,dec):       77.47, 20.10
Swift Location(lon,lat,alt): 52.47 E, 20.12 N, 572 km
Obs Sequence Number:        00030361018
Obs Target Name:             V723 Cas
Obs Date and Times:          2011-09-10 02:04:54 - 02:33:51
Obs Pointing(ra,dec,roll):   16.276, 53.999, 20.68
```

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

/tmp/110910_0225_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110910_0225.png

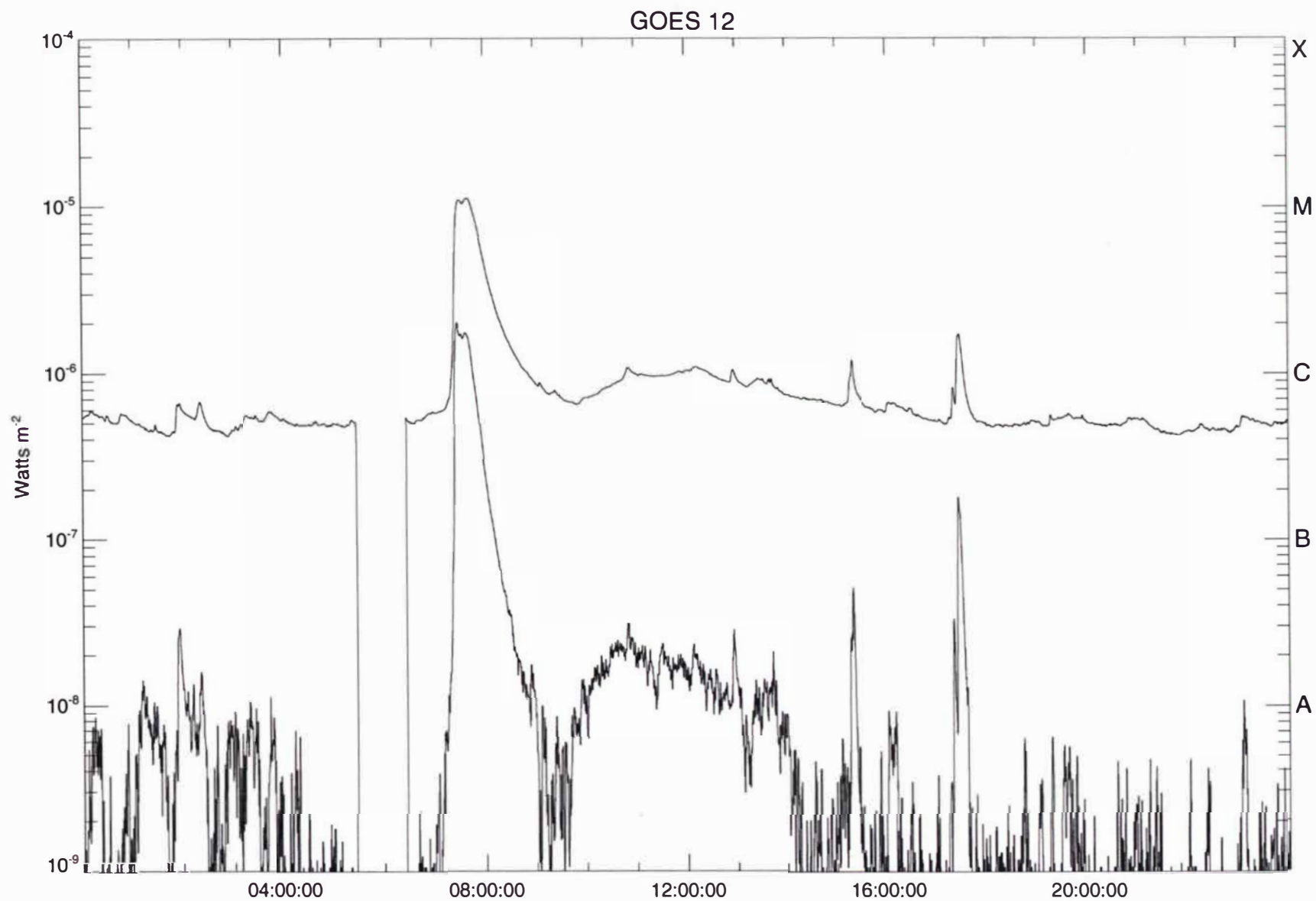
/tmp/110910_0225.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

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: 11/09/10, 0000:09

Plot created: 11/09/13, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

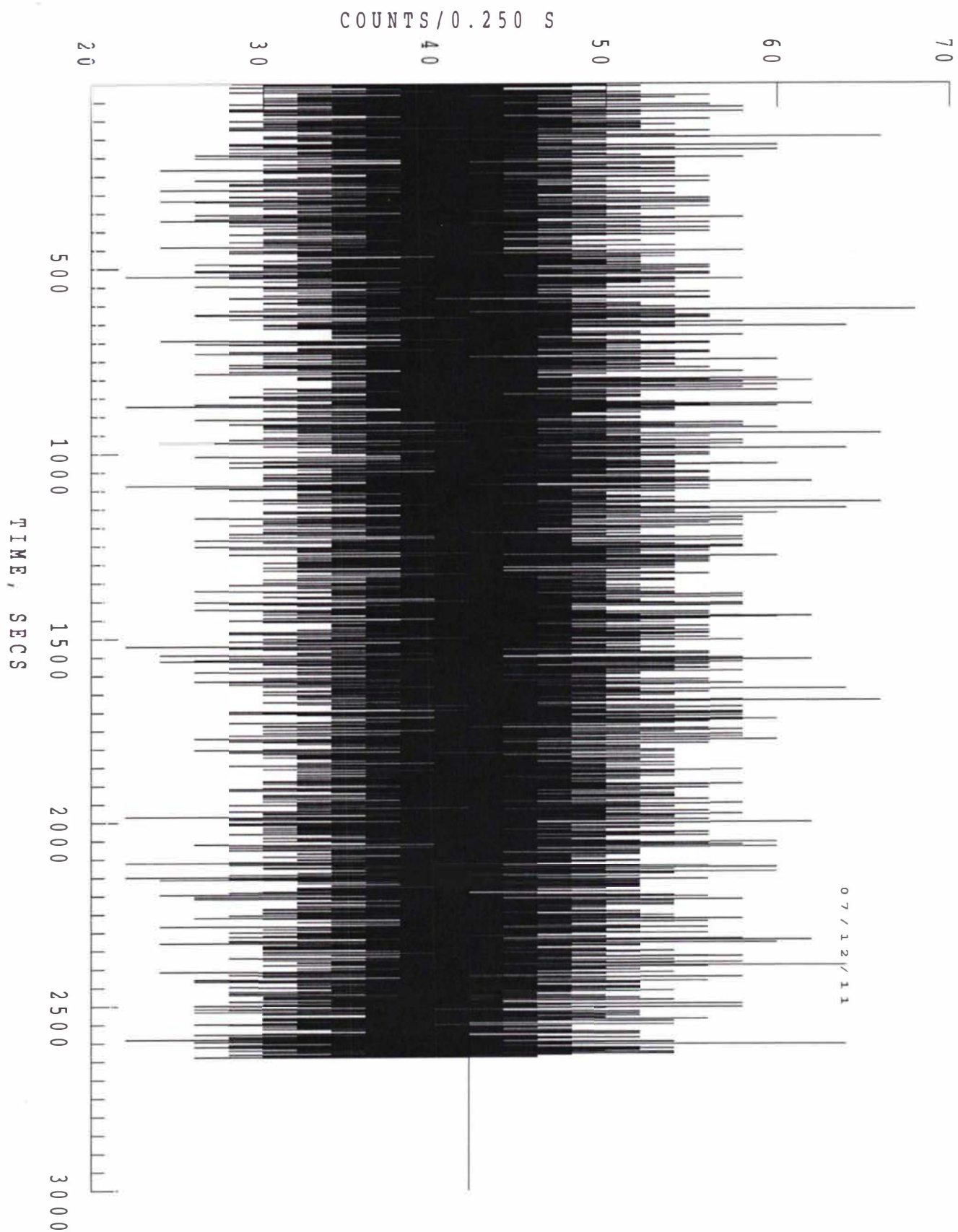
Sample average = 10

MS01

11/09/11

8975.030

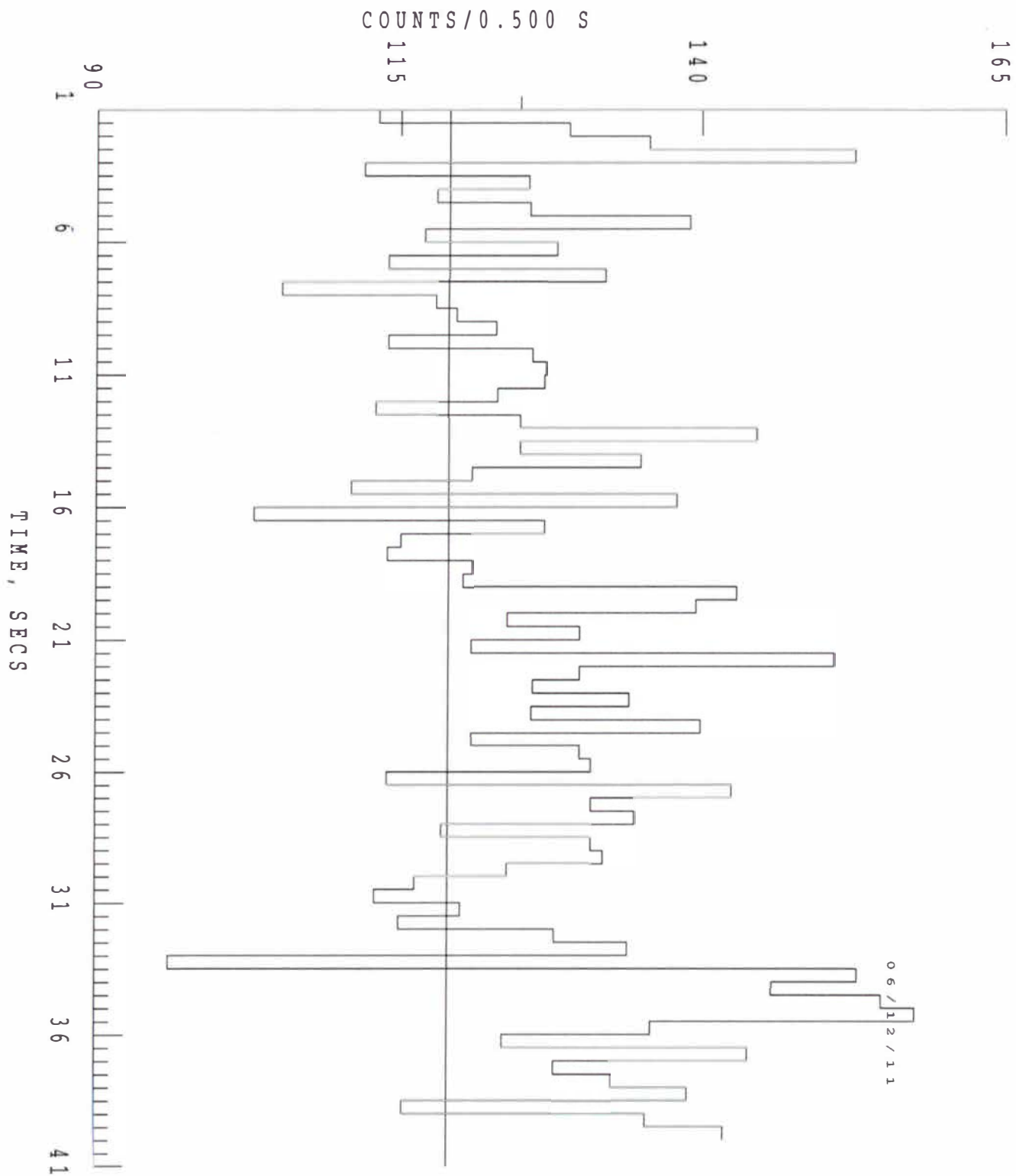
50 - 3000 keV



HESSI

11/09/11 10311.000 (SUZAKU_RI_20110911_10331)

25- 150 keV

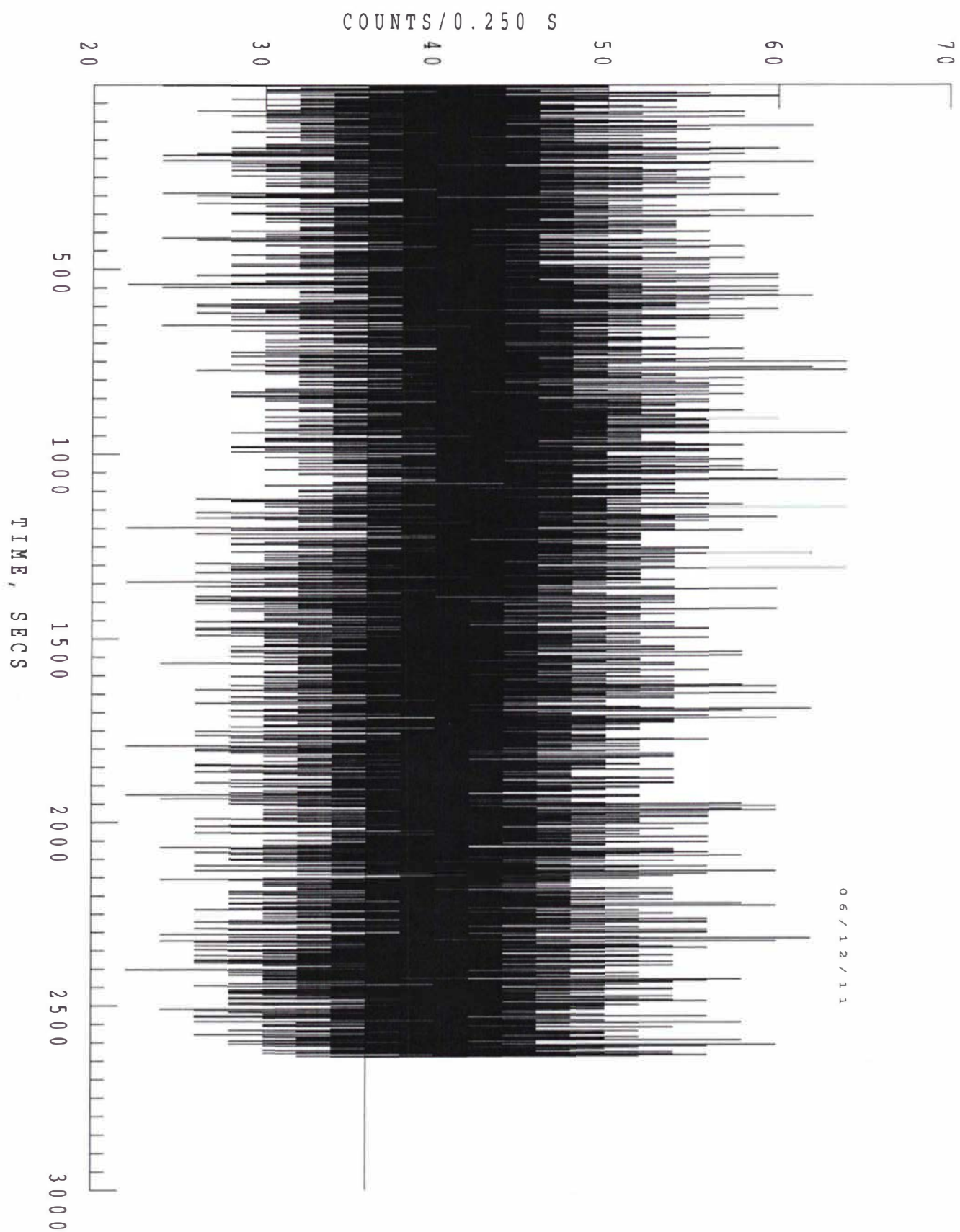


MS01

12/09/11

47732.864

50 - 3000 keV



GLAST

11/09/11

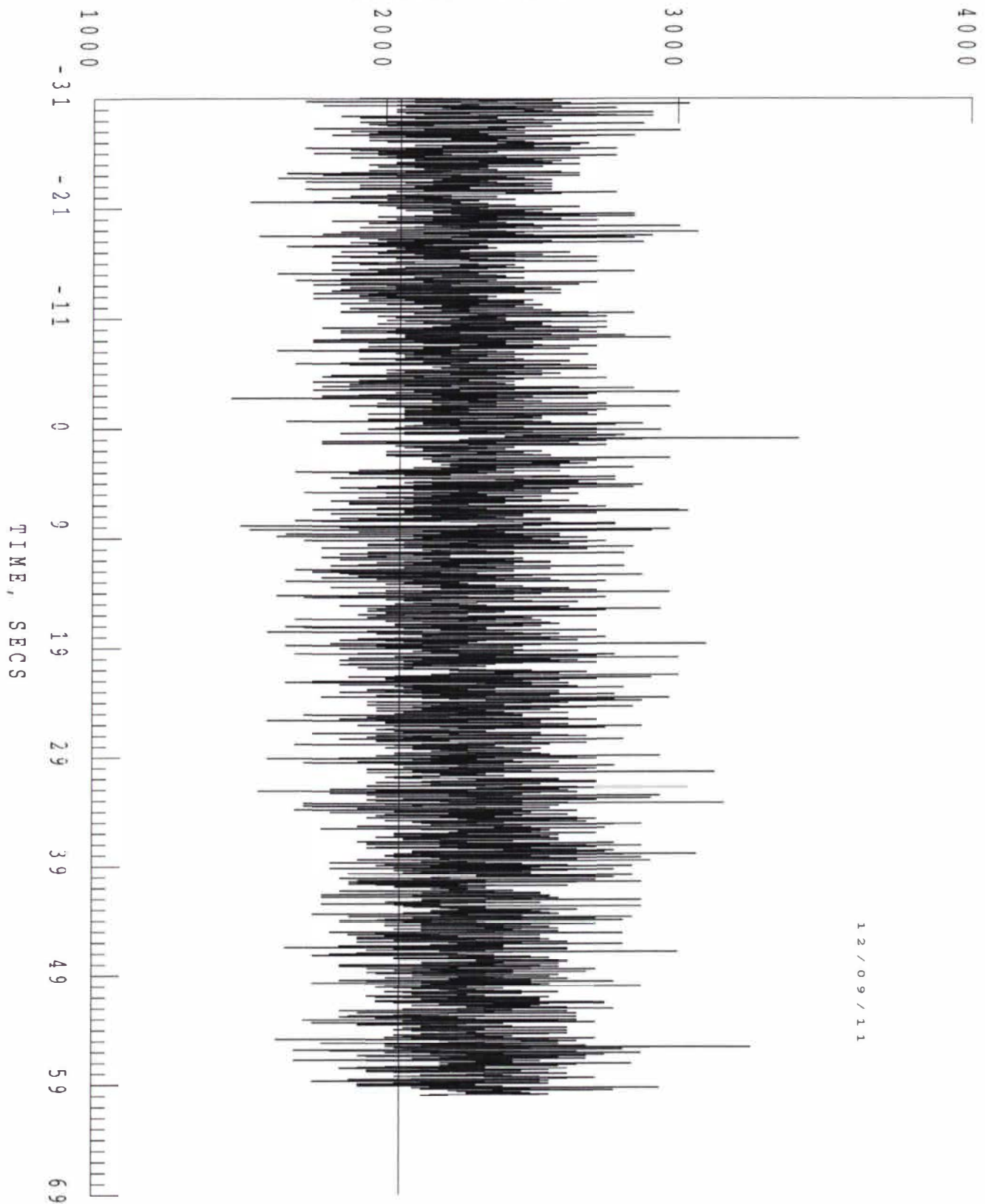
6101.569

01:41:41

26- 293 keV

258.58 -65.02 50.

COUNTS/0.032 S



12/09/11

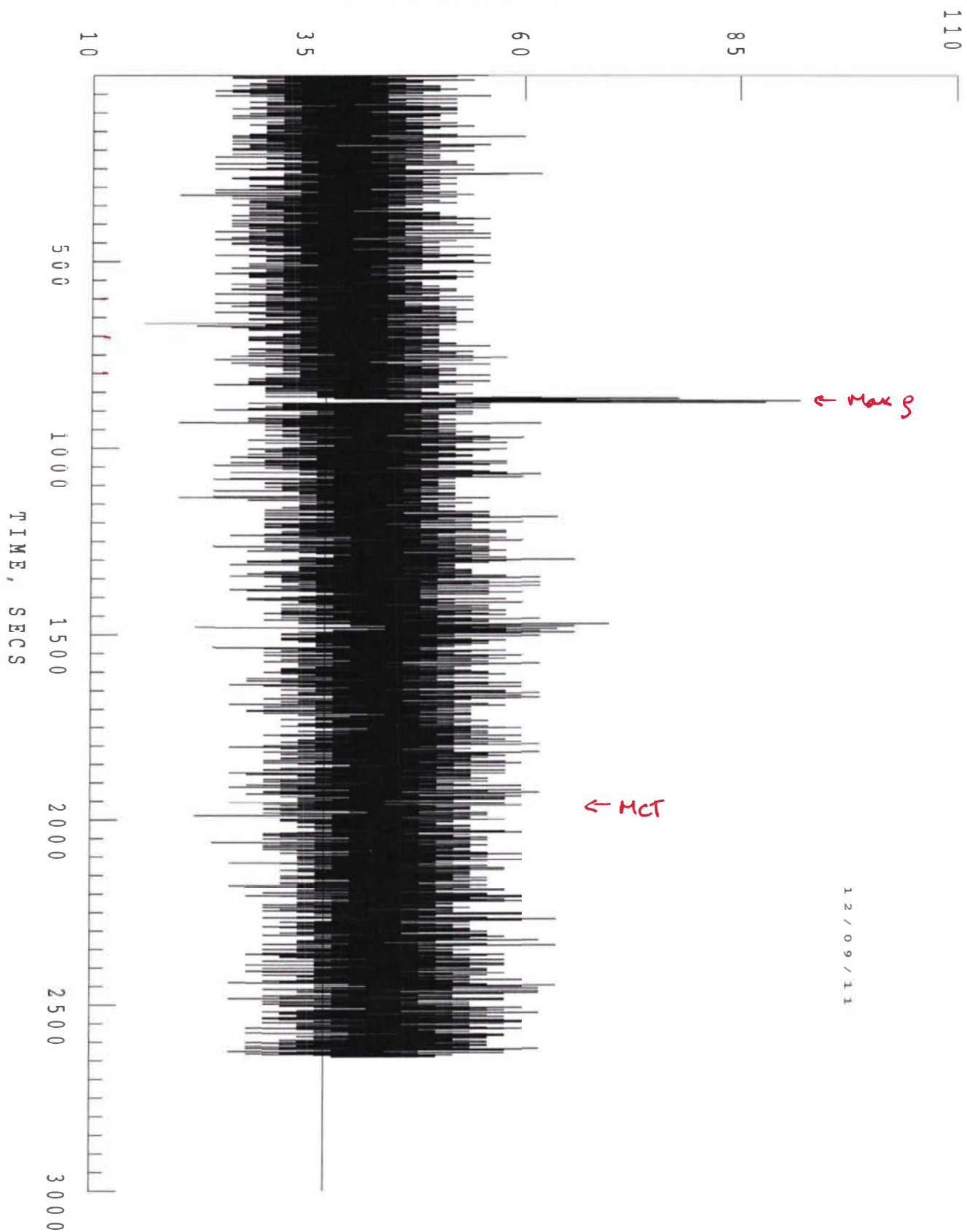
MS01

11/09/11

4775.250

50 - 3000 keV

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Mon Sep 12 12:27:55 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 12 Sep 2011 12:27:19 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GLAST_20110911_06101
X-Ucb-Scan-Signature: 6e11d2a44160c053cfe15df36407aa965796e124
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 12-Sep-2011 12:28:31.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [lpn] BAT lightcurve for trigger at 110911_0141

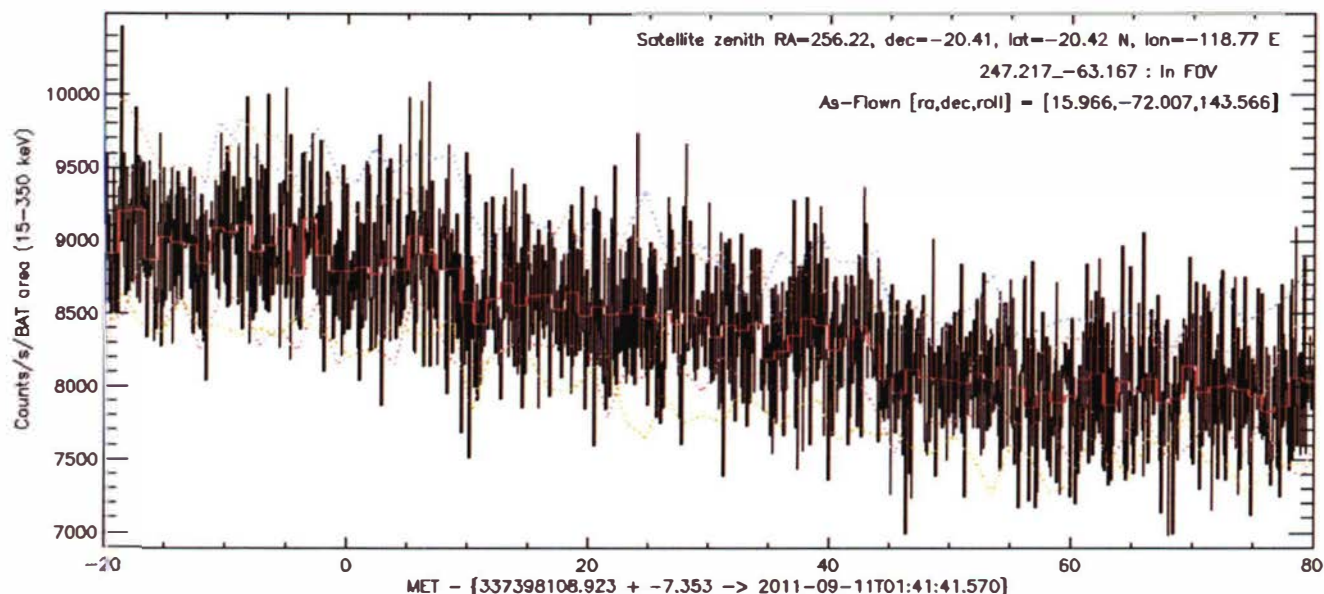
From: palmer+automatic_lightcurve@lanl.gov

Date: Sun, 11 Sep 2011 04:26:43 -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/110911_0141.png



```
% /usr/local/bin/swinfo -o 337398108.923 -s 247.217_-63.167
Time(MET + UTCF -> UT):      337398108.923 + -7.353 -> 2011-09-11T01:41:41.570
Swift Zenith(RA,dec):        256.22, -20.41
Swift Location(lon,lat,alt):  -118.77 E, -20.42 N, 596 km
Obs Sequence Number:         00050050093
Obs Target Name:              SNR 0102-72.3
Obs Date and Times:          2011-09-11 01:40:54 - 01:48:53
Obs Pointing(ra,dec,roll):   15.966, -72.007, 143.57
247.217_-63.167_imageloc (boresight_dist, angle): (40, -21)
247.217_-63.167_exposure (cm^2 cos adjusted): 2611
247.217_-63.167_altitude: 71 (up)
```

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

/tmp/110911_0141.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110911_0141_bat64ms_ipn

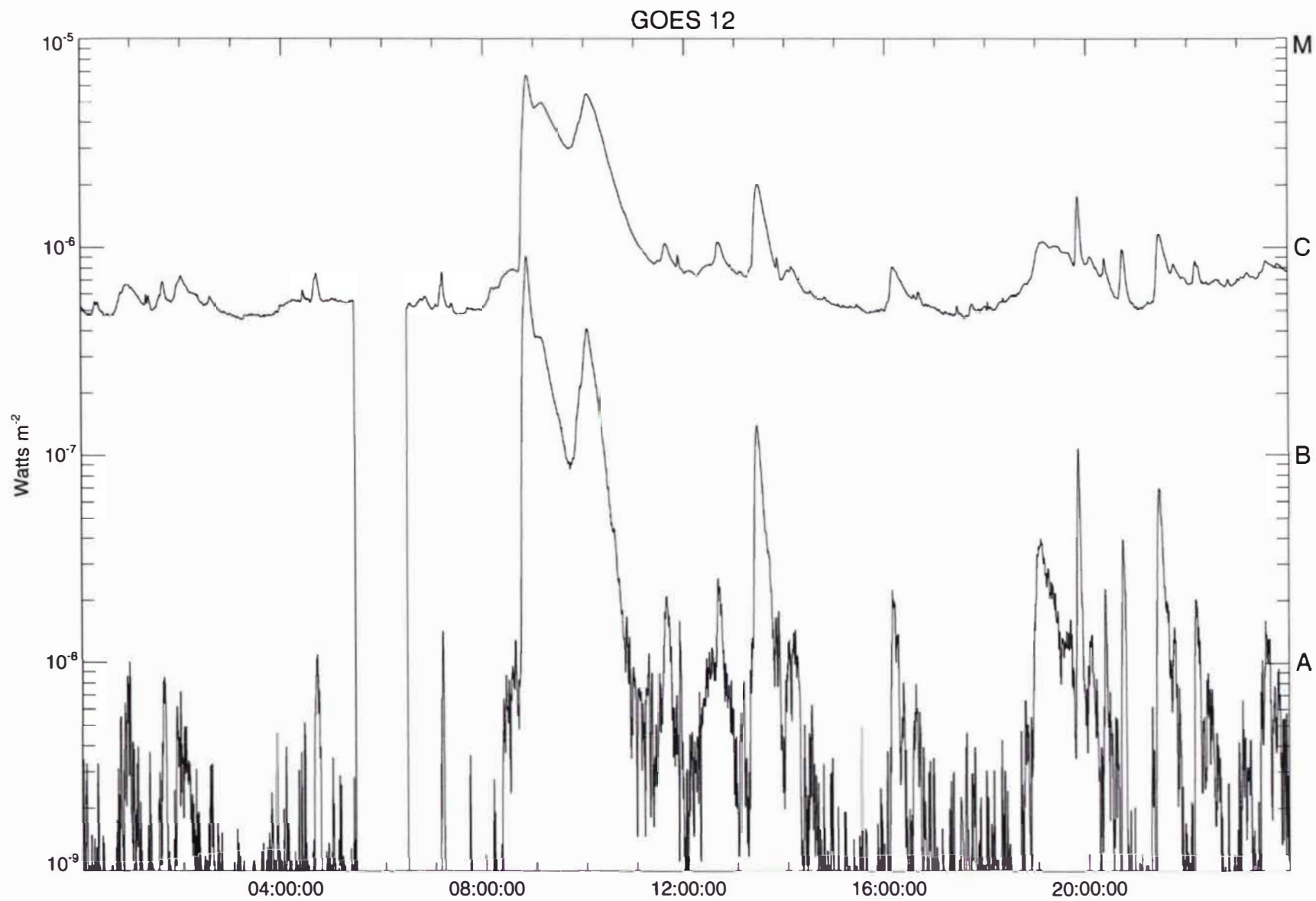
/tmp/110911_0141_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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Part 1.4

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: 11/09/11, 0000:09

Plot created: 11/09/14, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

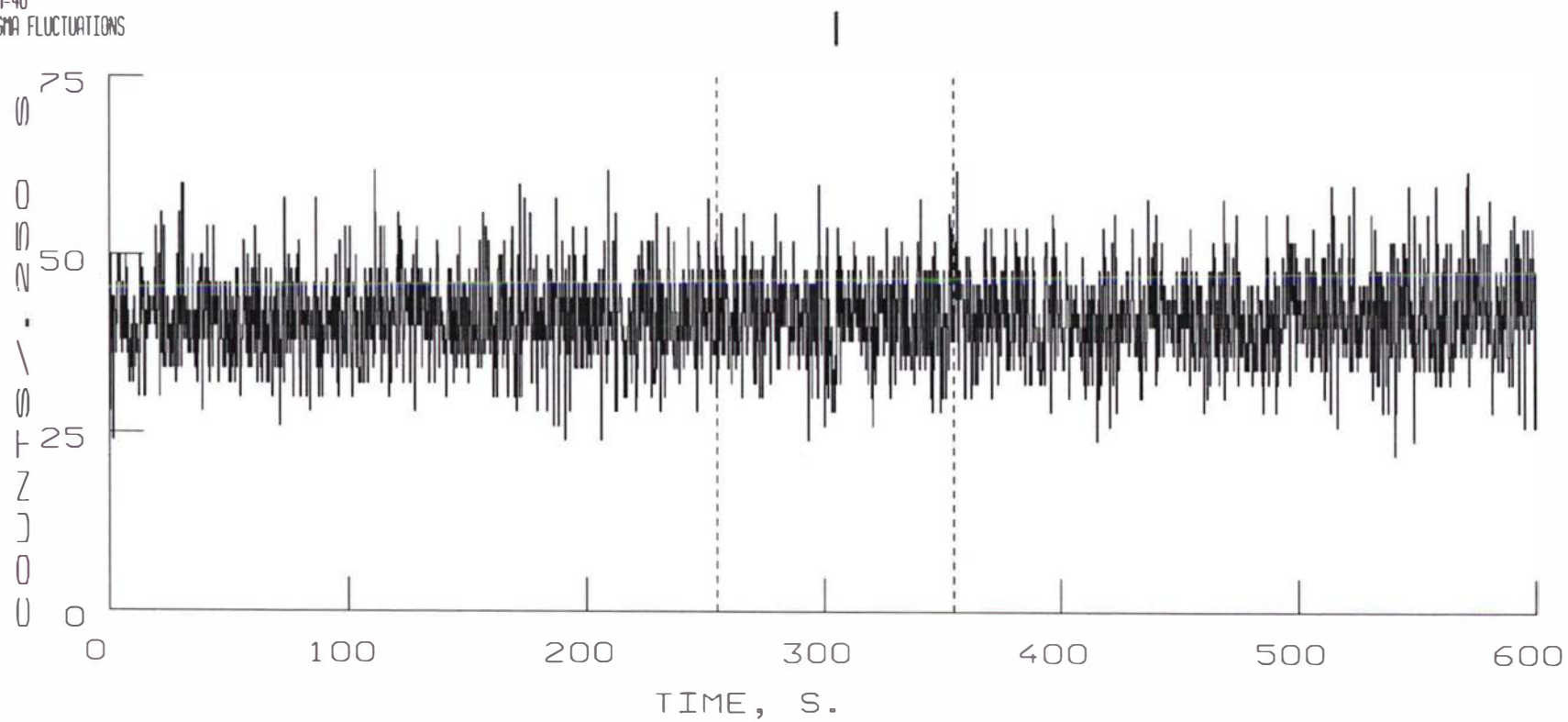
MS01 HEND

14/12/2011

12/09/2011 47732.863 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



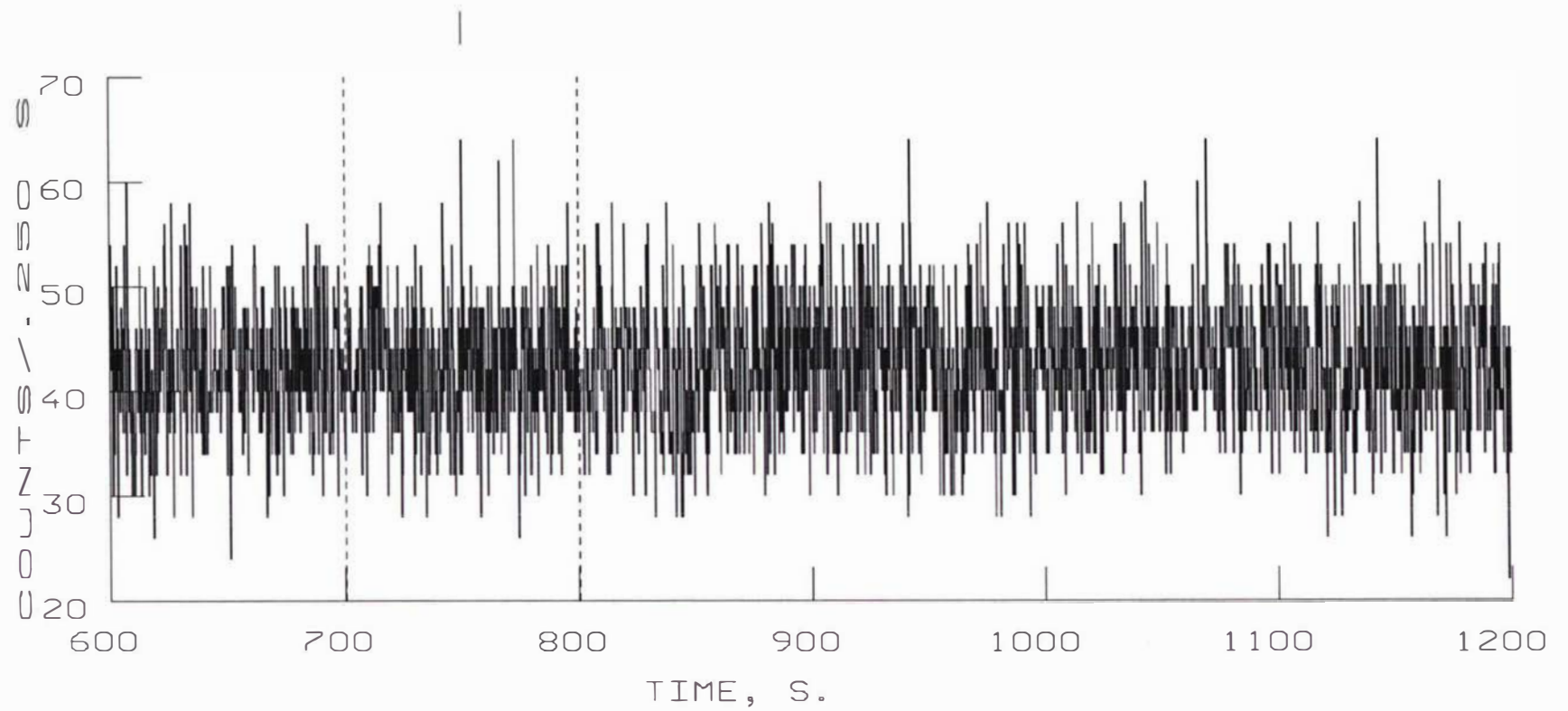
MS01 HEND

14/12/2011

12/09/2011 47732.863 s

50-3000 keV

MAXIMUM



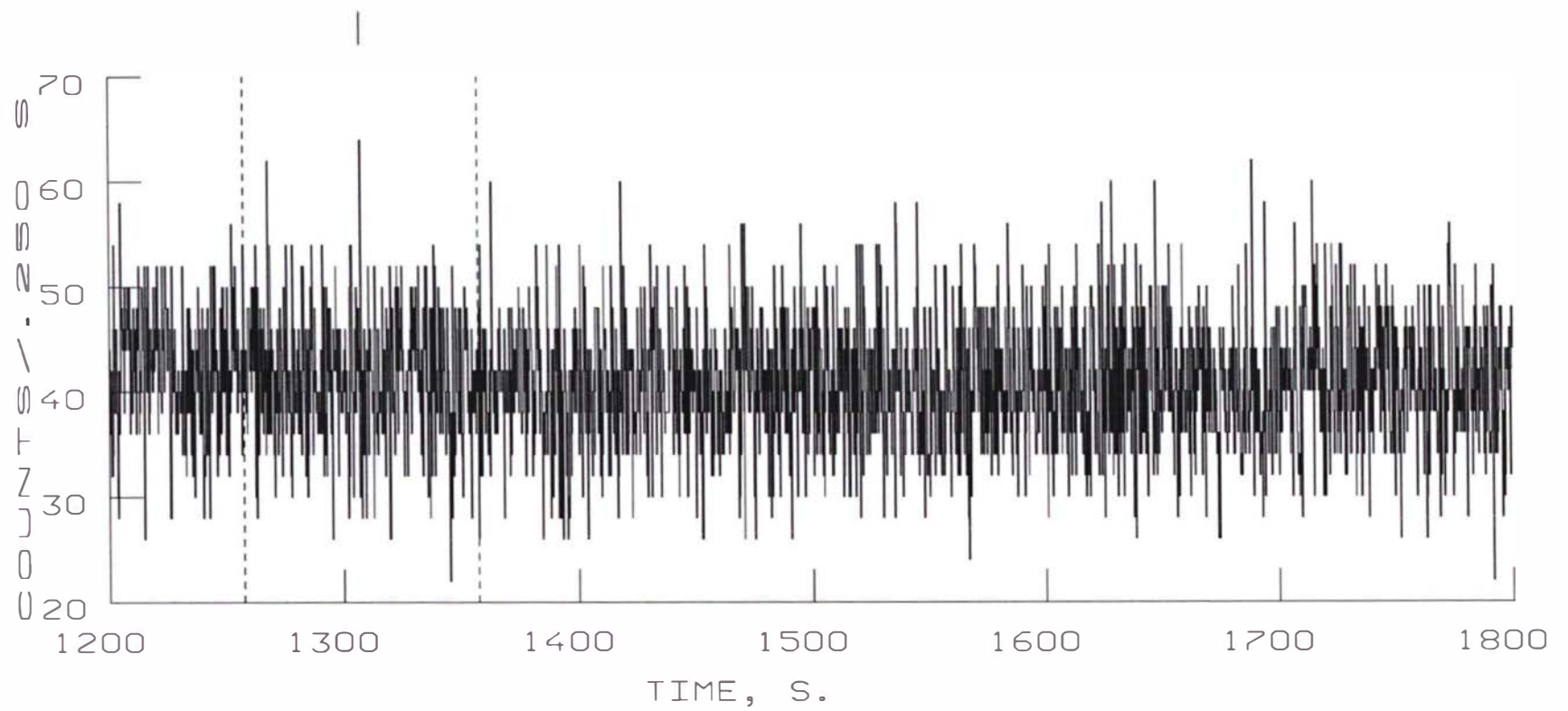
MS01 HEND

14/12/2011

12/09/2011 47732.863 s

50-3000 keV

MAXIMUM



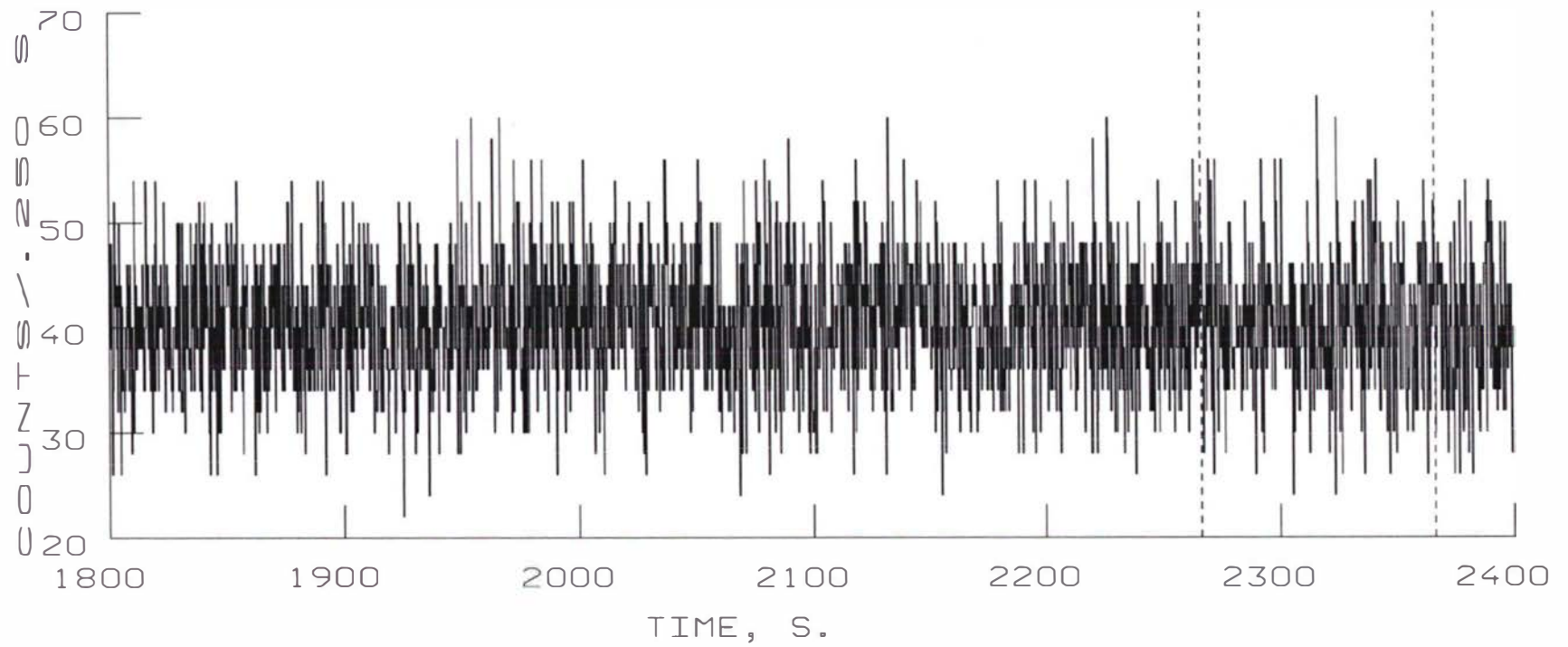
MS01 HEND

14/12/2011

12/09/2011 47732.863 s

50-3000 keV

MAXIMUM



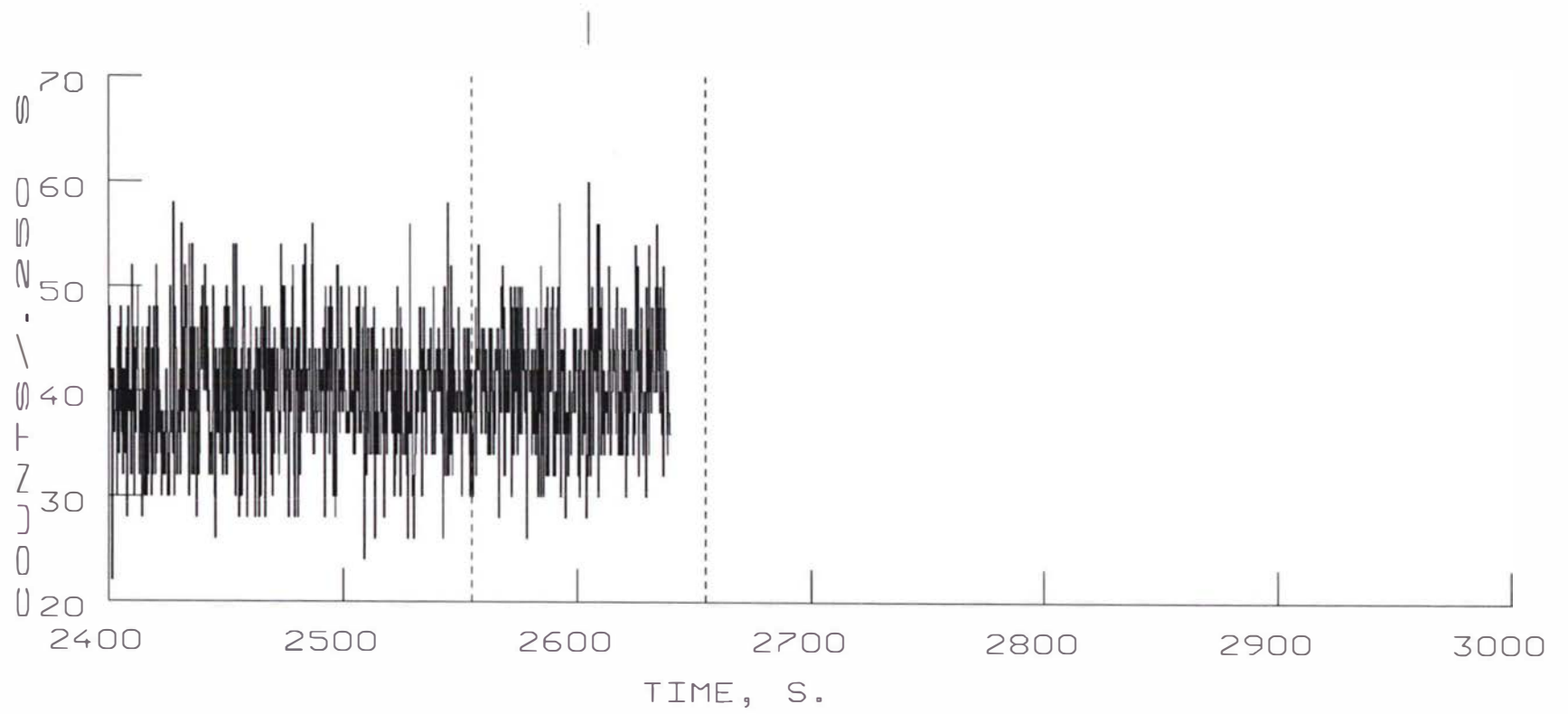
MS01 HEND

14/12/2011

12/09/2011 47732.863 s

50-3000 keV

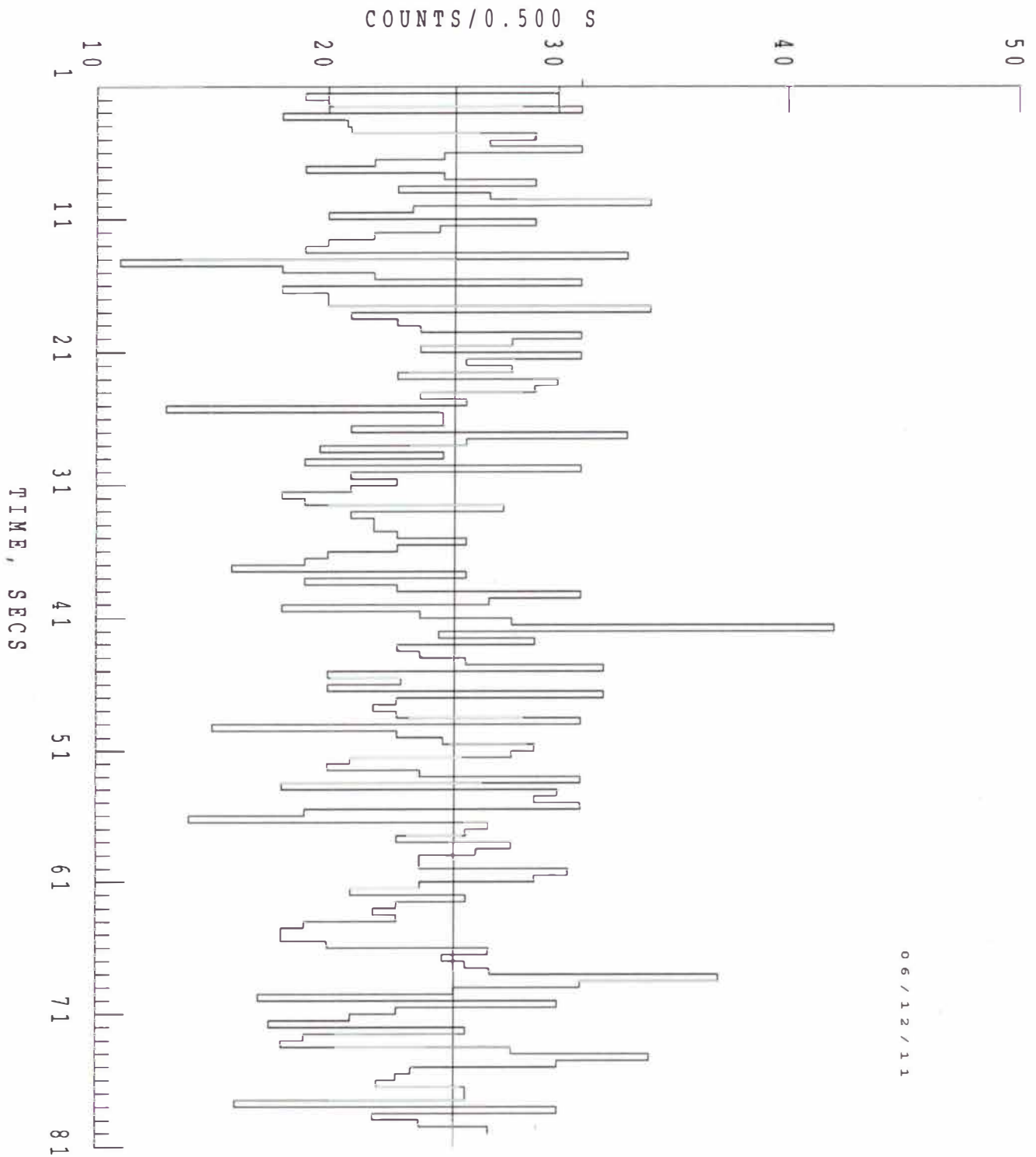
MAXIMUM



HESSI

12/09/11 49040.000 (KONUS_RI_20110912_49080)

50- 200 keV

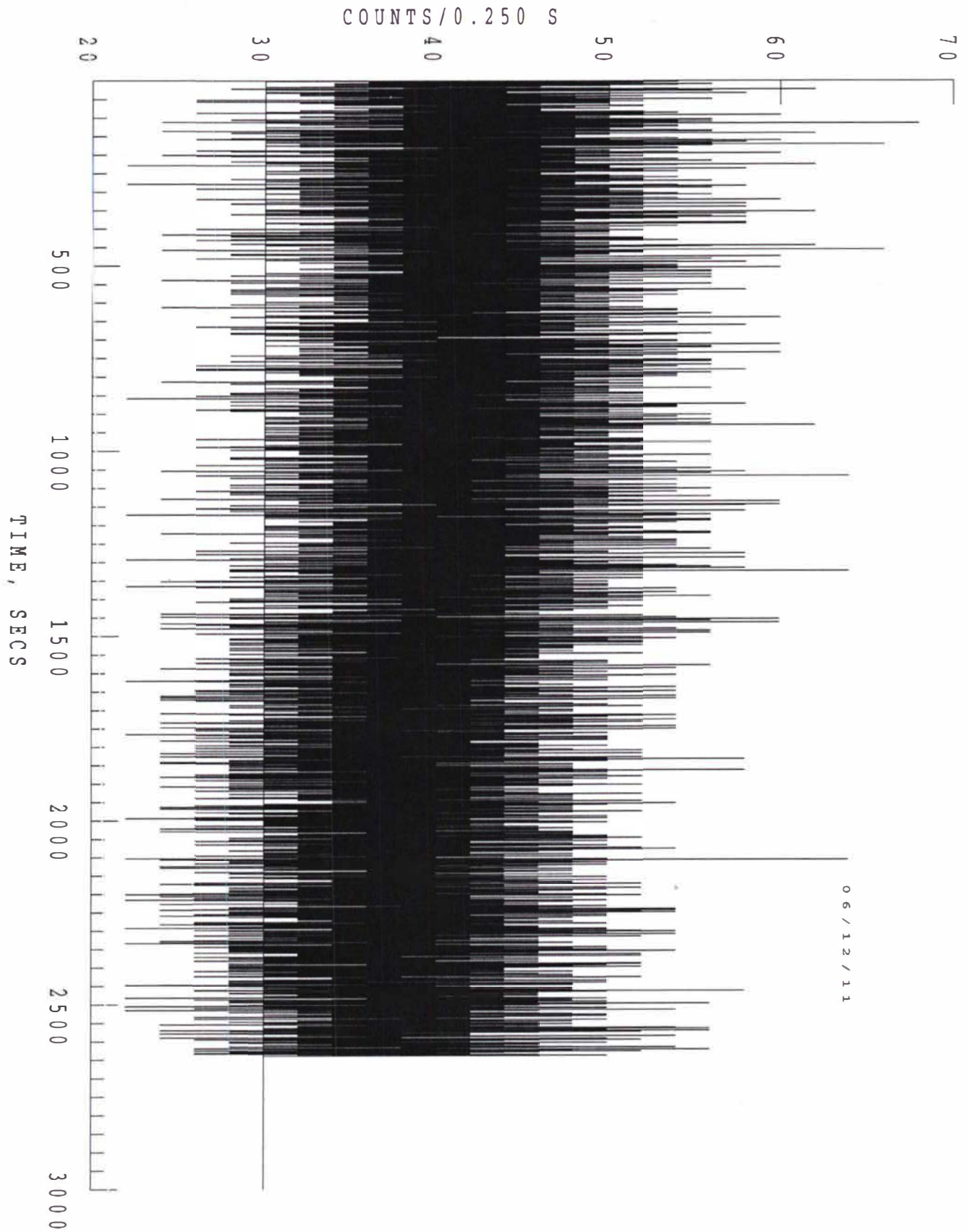


MS01

12/09/11

58472.676

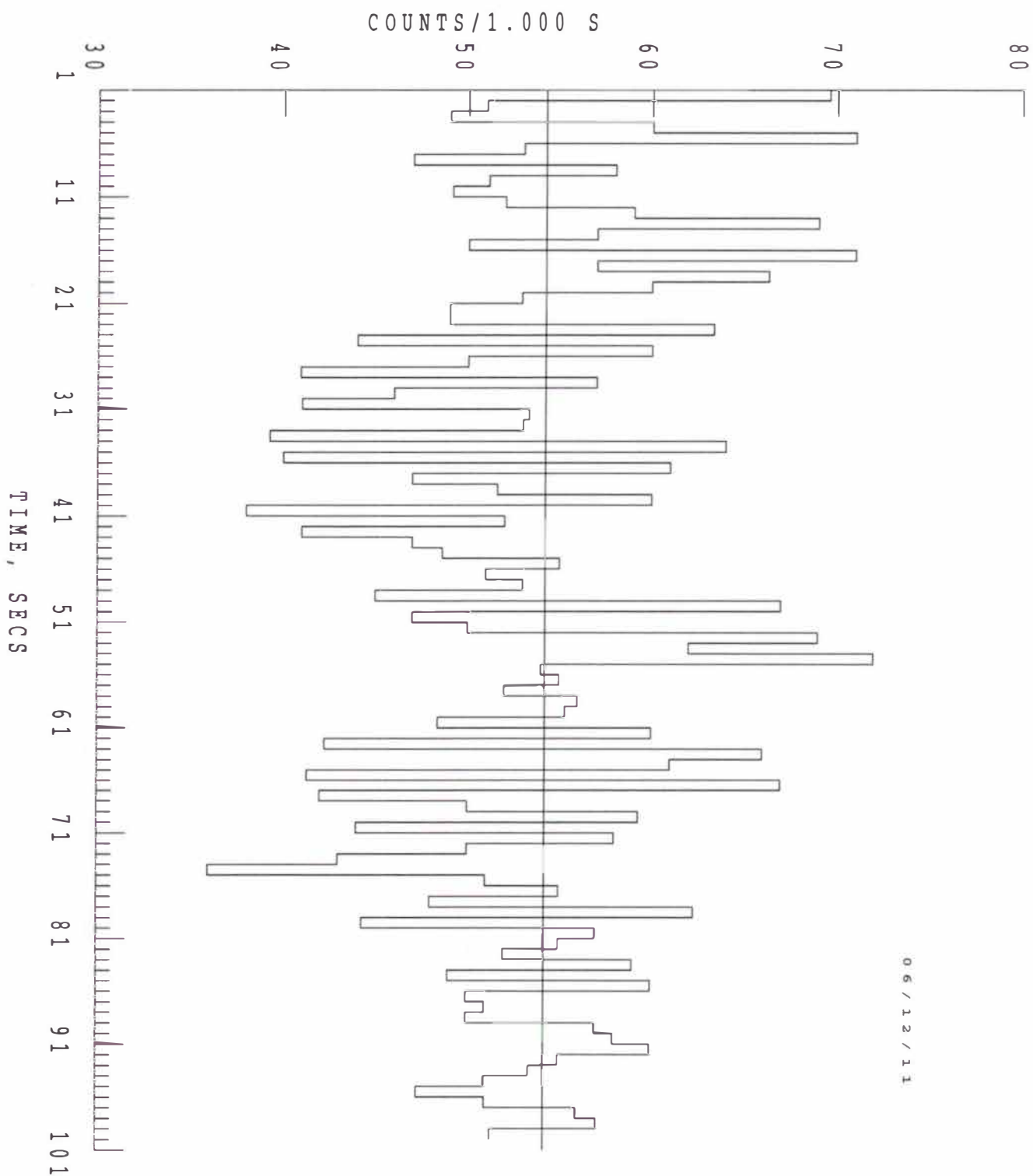
50- 3000 keV



HESSI

12/09/11 59770.000 (SUZAKU_RI_20110912_59820)

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110912_1616

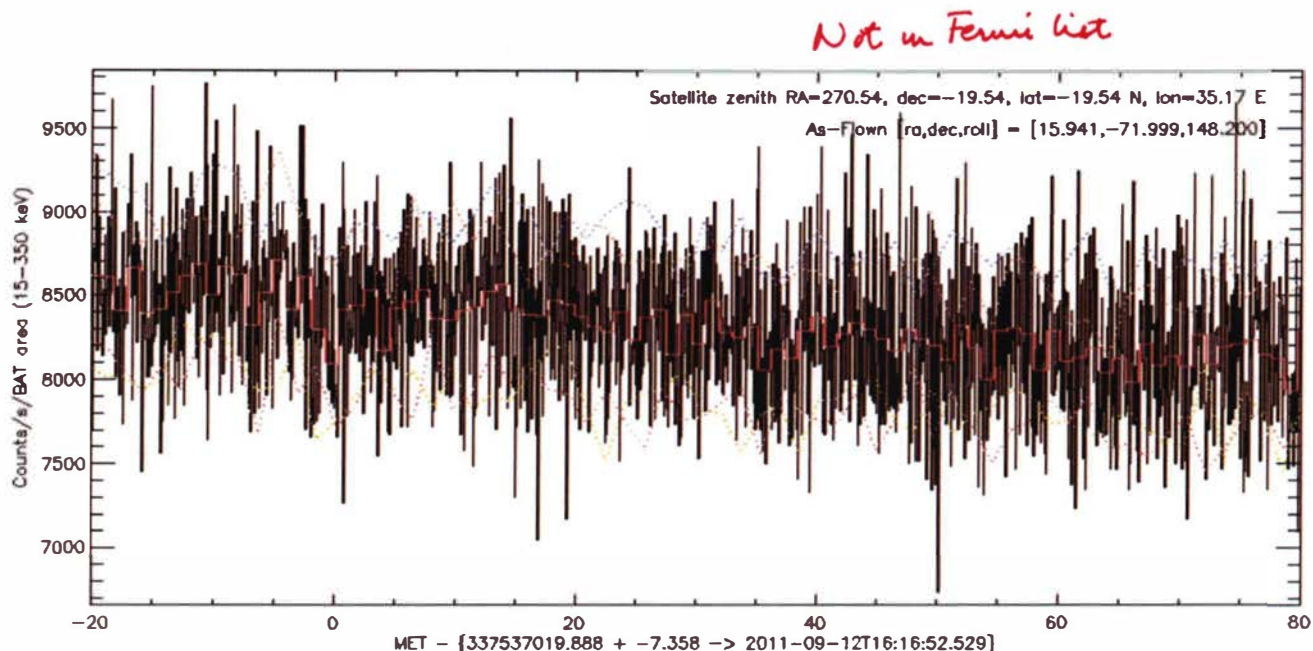
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 12 Sep 2011 14:52:39 -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/110912_1616.png



```
% /usr/local/bin/swinfo -o 337537019.887
Time(MET + UTC -> UT):      337537019.888 + -7.358 -> 2011-09-12T16:16:52.529
Swift Zenith(RA,dec):        270.54, -19.54
Swift Location(lon,lat,alt):  35.17 E, -19.54 N, 596 km
Obs Sequence Number:         00050050093
Obs Target Name:              SNR 0102-72.3
Obs Date and Times:           2011-09-12 16:13:54 - 16:23:52
Obs Pointing(ra,dec,roll):    15.941, -71.999, 148.20
```

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

/tmp/110912_1616.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110912_1616_bat64ms_ipn

/tmp/110912_1616_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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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 110912_1635

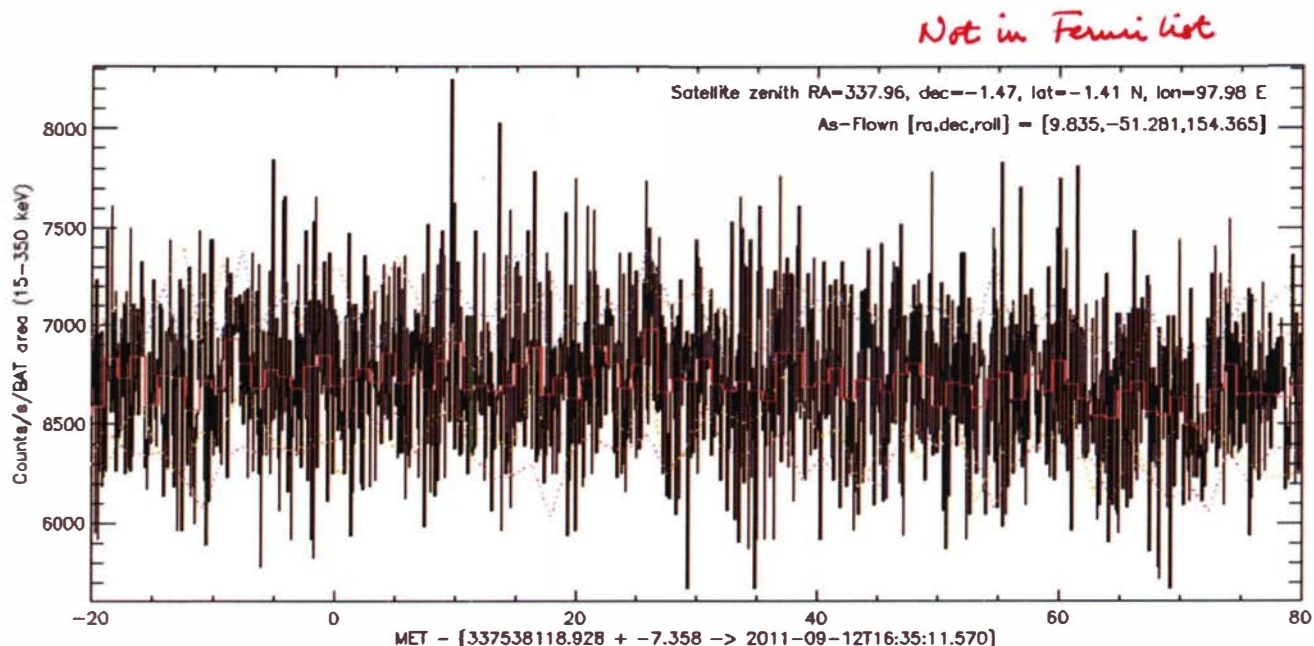
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 12 Sep 2011 13:54:08 -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/110912_1635.png



```
% /usr/local/bin/swinfo -o 337538118.928
Time(MET + UTCF -> UT): 337538118.928 + -7.358 -> 2011-09-12T16:35:11.570
Swift Zenith(RA,dec): 337.96, -1.47
Swift Location(lon,lat,alt): 97.98 E, -1.41 N, 591 km
Obs Sequence Number: 00091017019
Obs Target Name: WPVS 007
Obs Date and Times: 2011-09-12 16:23:54 - 16:53:52
Obs Pointing(ra,dec,roll): 9.835, -51.281, 154.37
```

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

/tmp/110912_1635.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110912_1635_bat64ms_ipn

/tmp/110912_1635_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
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Part 1.5

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

Subject: [Ipn] BAT lightcurve for trigger at 110912_1641

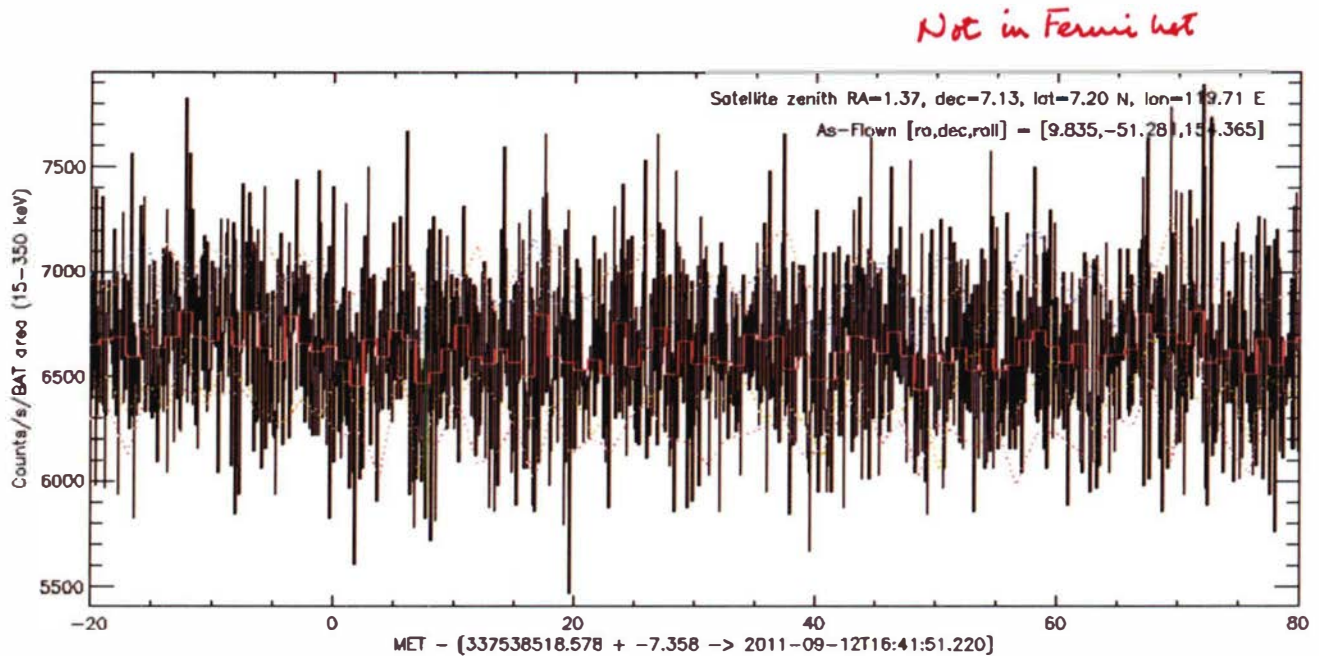
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 12 Sep 2011 13:54:08 -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/110912_1641.png



```
% /usr/local/bin/swinfo -o 337538518.578
Time(MET + UTCF -> UT): 337538518.578 + -7.358 -> 2011-09-12T16:41:51.220
Swift Zenith(RA,dec): 1.37, 7.13
Swift Location(lon,lat,alt): 119.71 E, 7.20 N, 586 km
Obs Sequence Number: 00091017019
Obs Target Name: WPVS 007
Obs Date and Times: 2011-09-12 16:23:54 - 16:53:52
Obs Pointing(ra,dec,roll): 9.835, -51.281, 154.37
```

--
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/110912_1641.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110912_1641_bat64ms_ipn

/tmp/110912_1641_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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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 110912_1715

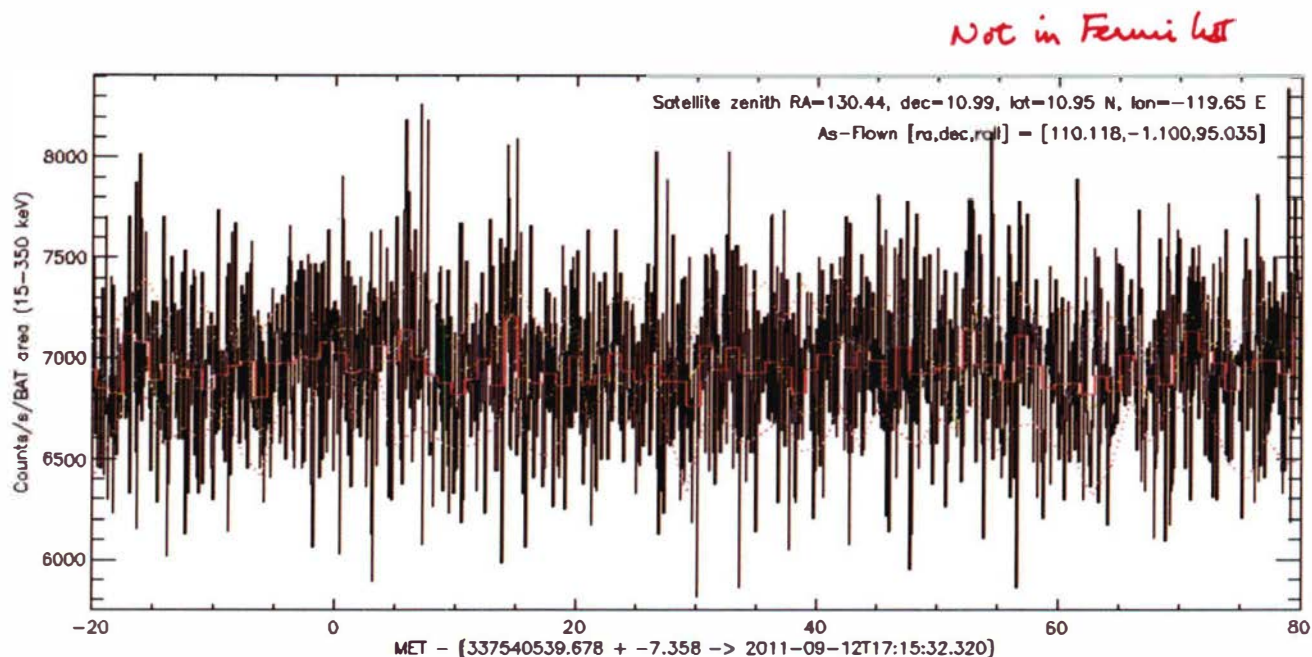
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 12 Sep 2011 13:54:08 -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/110912_1715.png



```
% /usr/local/bin/swinfo -o 337540539.678
Time(MET + UTC -> UT):      337540539.678 + -7.358 -> 2011-09-12T17:15:32.320
Swift Zenith(RA,dec):       130.44, 10.99
Swift Location(lon,lat,alt): -119.65 E, 10.95 N, 575 km
Obs Sequence Number:        00040383003
Obs Target Name:             Berkeley 37
Obs Date and Times:          2011-09-12 17:10:54 - 17:27:52
Obs Pointing(ra,dec,roll):   110.118, -1.100, 95.03
```

--
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/110912_1715_bat64ms_ipn

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

/tmp/110912_1715.png

/tmp/110912_1715.png

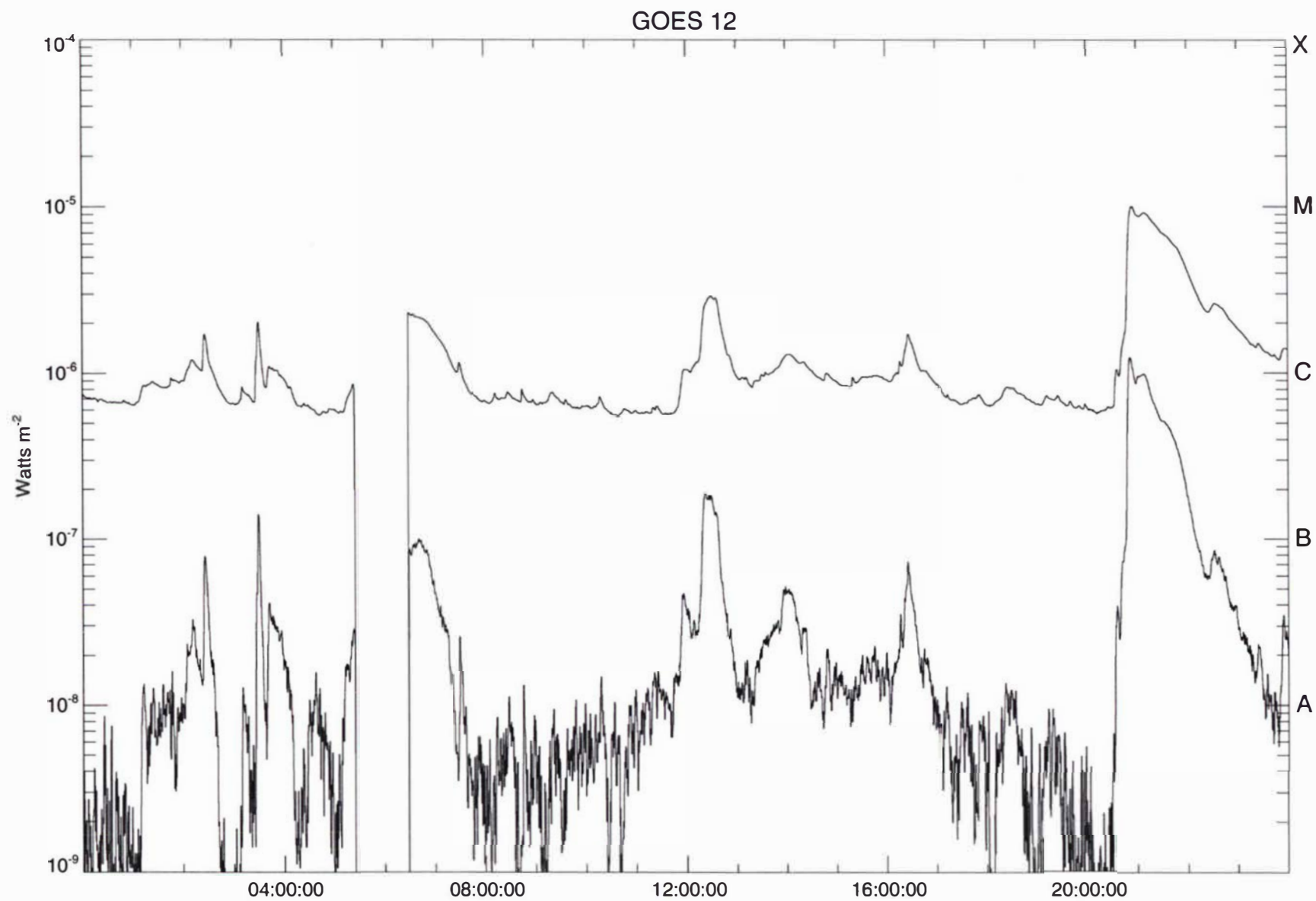
Content-Type: image/png
Content-Encoding: base64

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: 11/09/12, 0000:09

Plot created: 11/09/15, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

INTEGRAL

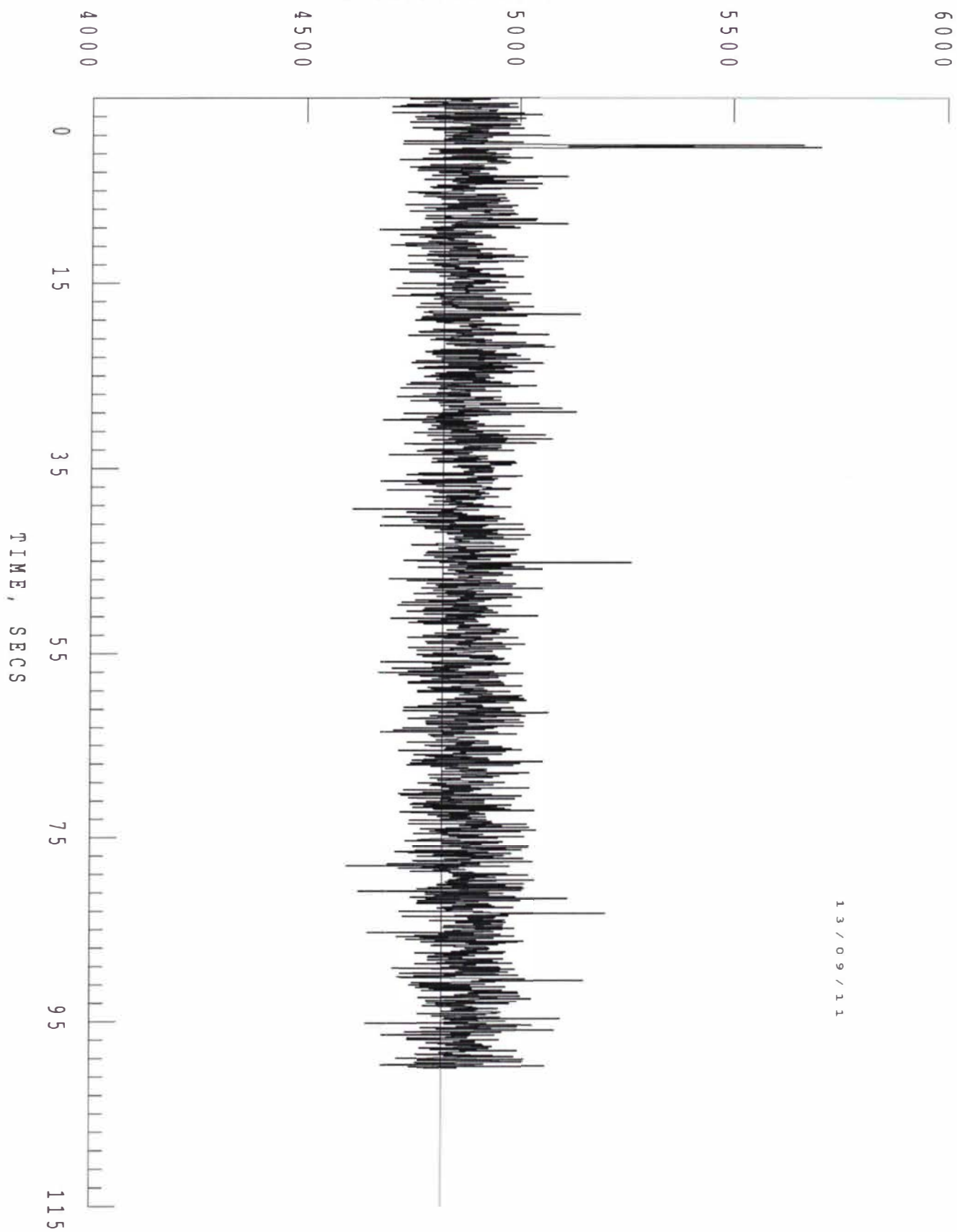
13/09/11

5765.945

01:36:05

100-10000 keV

COUNTS/0.050 S

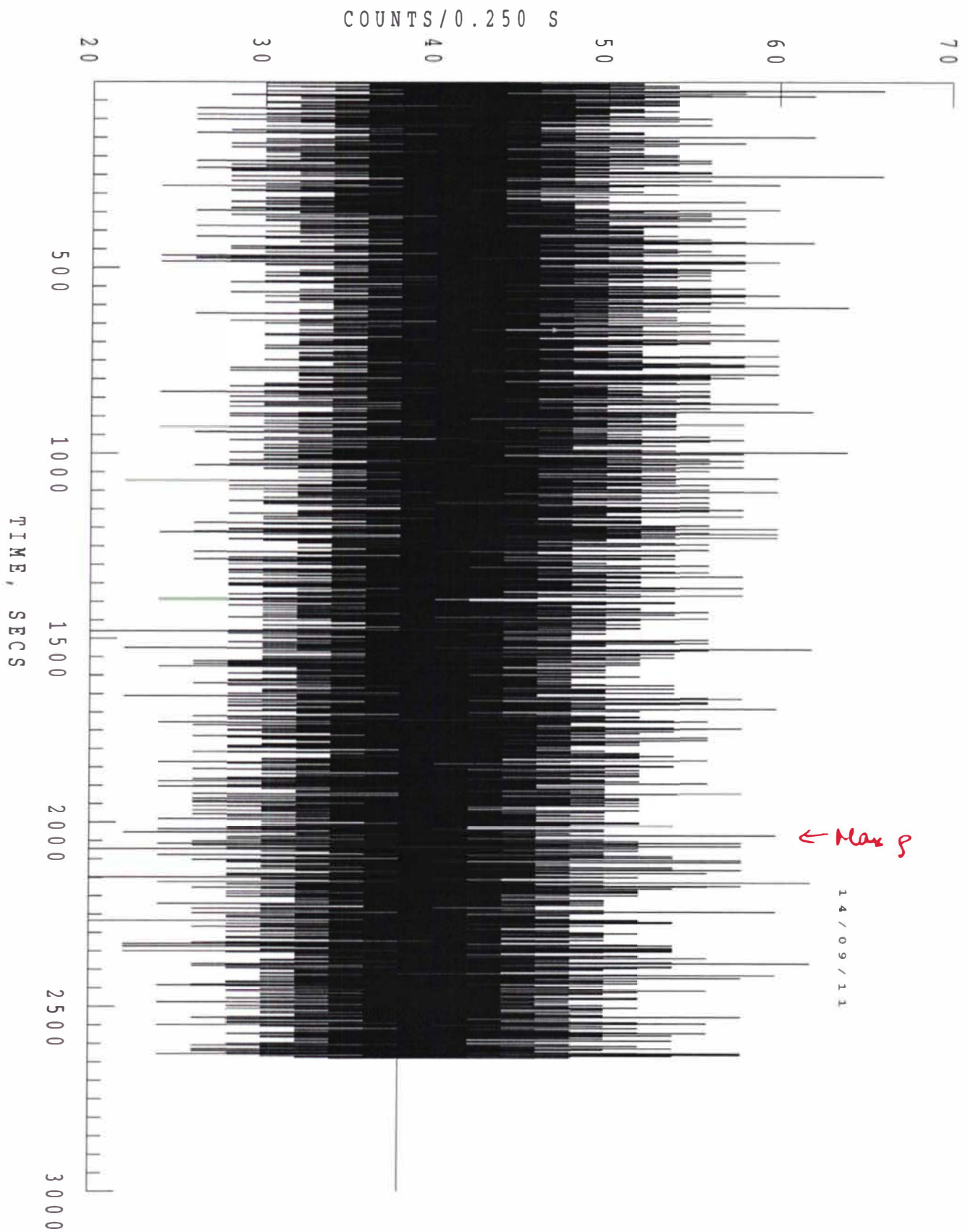


MS01

13/09/11

4412.298

50 - 3000 keV



From williams@gammaburst.ssl.berkeley.edu Tue Sep 13 23:02:51 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 13 Sep 2011 23:02:13 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_INTEGRAL_20110913_05765
X-Ucb-Scan-Signature: 1563db8807bc788e1bf10fb696b81f8f527a5c02
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 13-Sep-2011 23:03:31.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [lpn] BAT lightcurve for trigger at 110913_0136

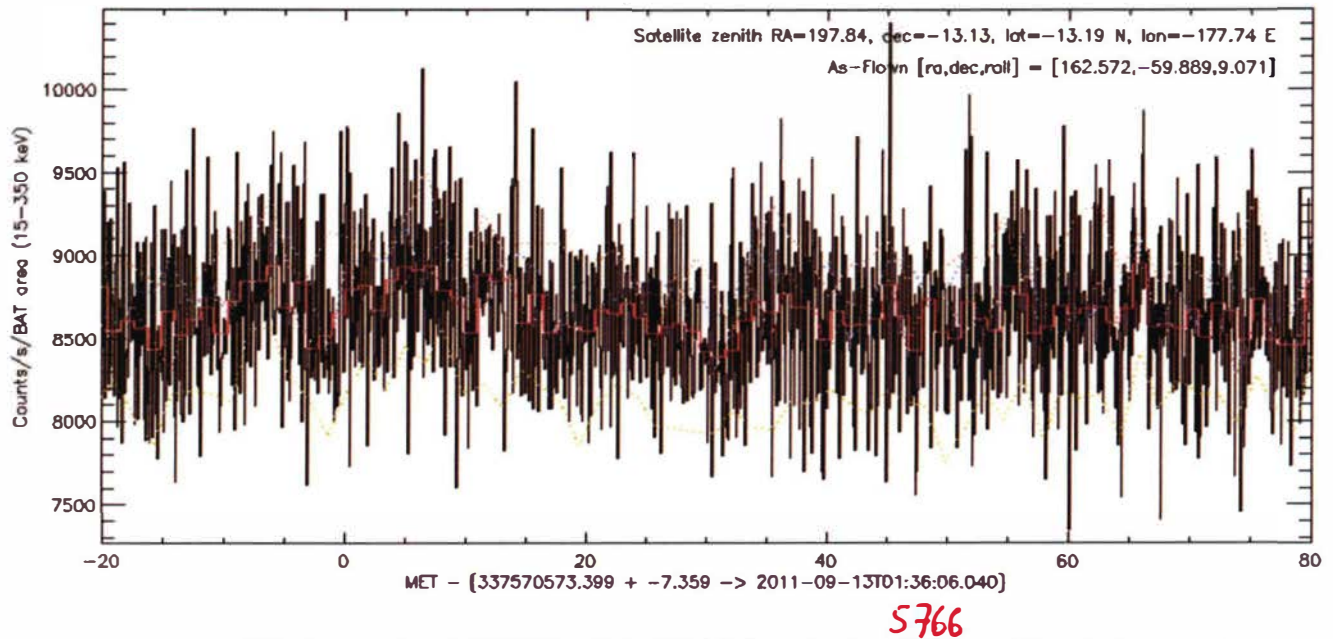
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 13 Sep 2011 02:27:22 -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/110913_0136.png



```
% /usr/local/bin/swinfo -o 337570573.399
Time(MET + UTCF -> UT): 337570573.399 + -7.359 -> 2011-09-13T01:36:06.040
Swift Zenith(RA,dec): 197.84, -13.13
Swift Location(lon,lat,alt): -177.74 E, -13.19 N, 586 km
Obs Sequence Number: 00031220035
Obs Target Name: 1E 1048.1-5937
Obs Date and Times: 2011-09-13 01:14:54 - 01:44:50
Obs Pointing(ra,dec,roll): 162.572, -59.889, 9.07
```

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/110913_0136.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110913_0136_bat64ms_ipn

/tmp/110913_0136_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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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 110913_0417

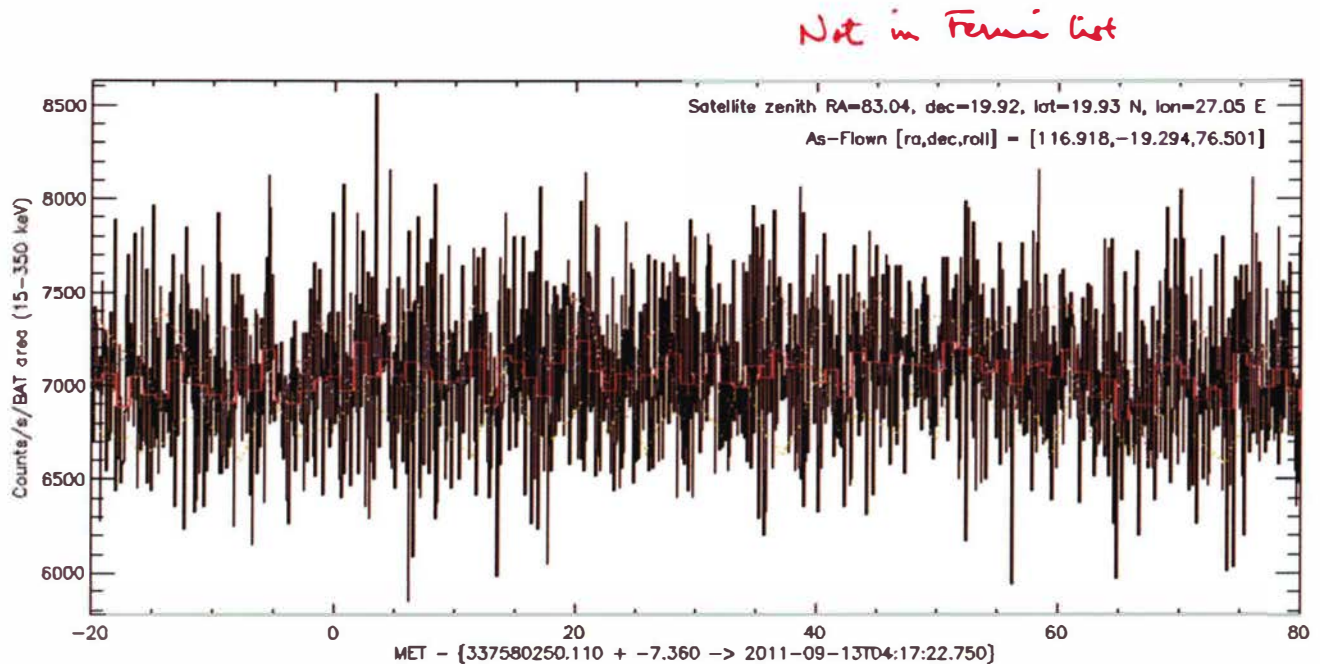
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 13 Sep 2011 03:56:13-0600 (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/110913_0417.png



```
% /usr/local/bin/swinfo -o 337580250.110
Time(MET + UTCF -> UT):      337580250.110 + -7.360 -> 2011-09-13T04:17:22.750
Swift Zenith(RA,dec):        83.04, 19.92
Swift Location(lon,lat,alt):  27.05 E, 19.93 N, 574 km
Obs Sequence Number:         00051650024
Obs Target Name:              PKS0745-19
Obs Date and Times:           2011-09-13 04:07:54 - 04:26:51
Obs Pointing(ra,dec,roll):    116.918, -19.294, 76.50
```

--
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/110913_0417_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110913_0417.png

/tmp/110913_0417.png	Content-Type: image/png Content-Encoding: base64
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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 110913_0533

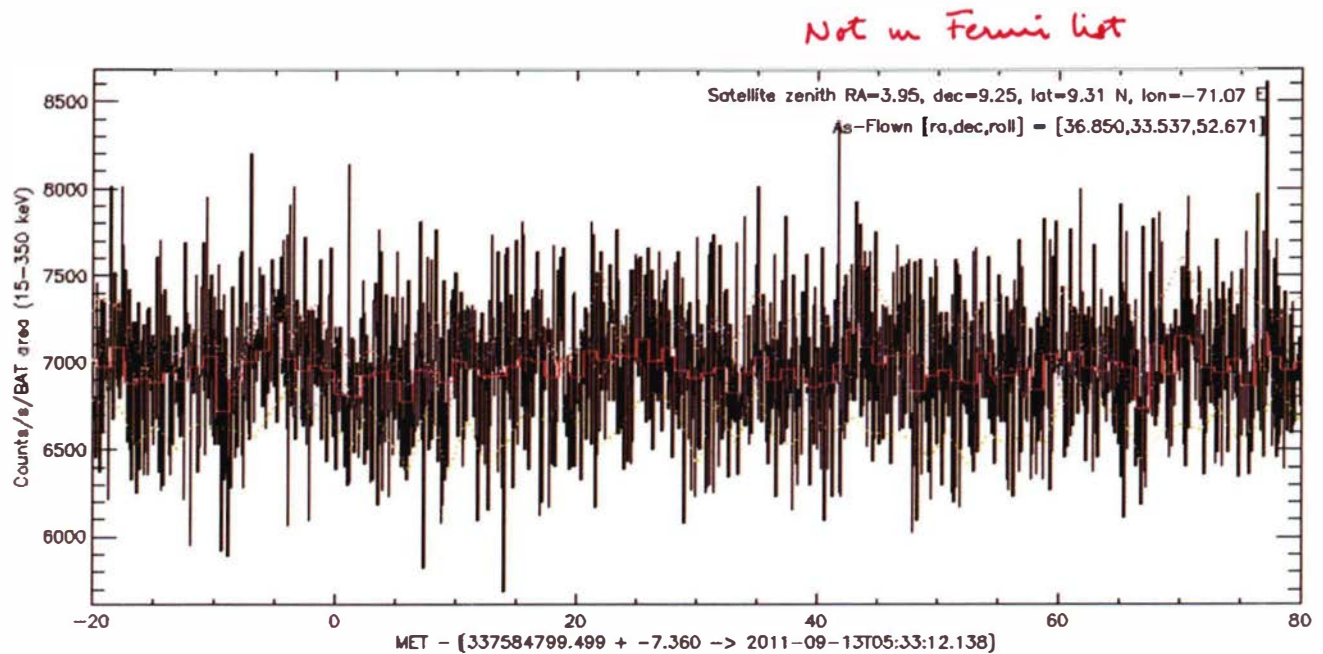
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 13 Sep 2011 03:56:14 -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/110913_0533.png



```
% /usr/local/bin/swinfo -o 337584799.498
Time(MET + UTC -> UT):      337584799.499 + -7.360 -> 2011-09-13T05:33:12.138
Swift Zenith(RA,dec):       3.95, 9.25
Swift Location(lon,lat,alt): -71.07 E, 9.31 N, 586 km
Obs Sequence Number:        00045596008
Obs Target Name:             NGC 0925
Obs Date and Times:          2011-09-13 05:32:54 - 05:44:51
Obs Pointing(ra,dec,roll):   36.850, 33.537, 52.67
```

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

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

/tmp/110913_0533_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110913_0533.png

/tmp/110913_0533.png	Content-Type: image/png Content-Encoding: base64
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Part 1.4

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

Part 1.5

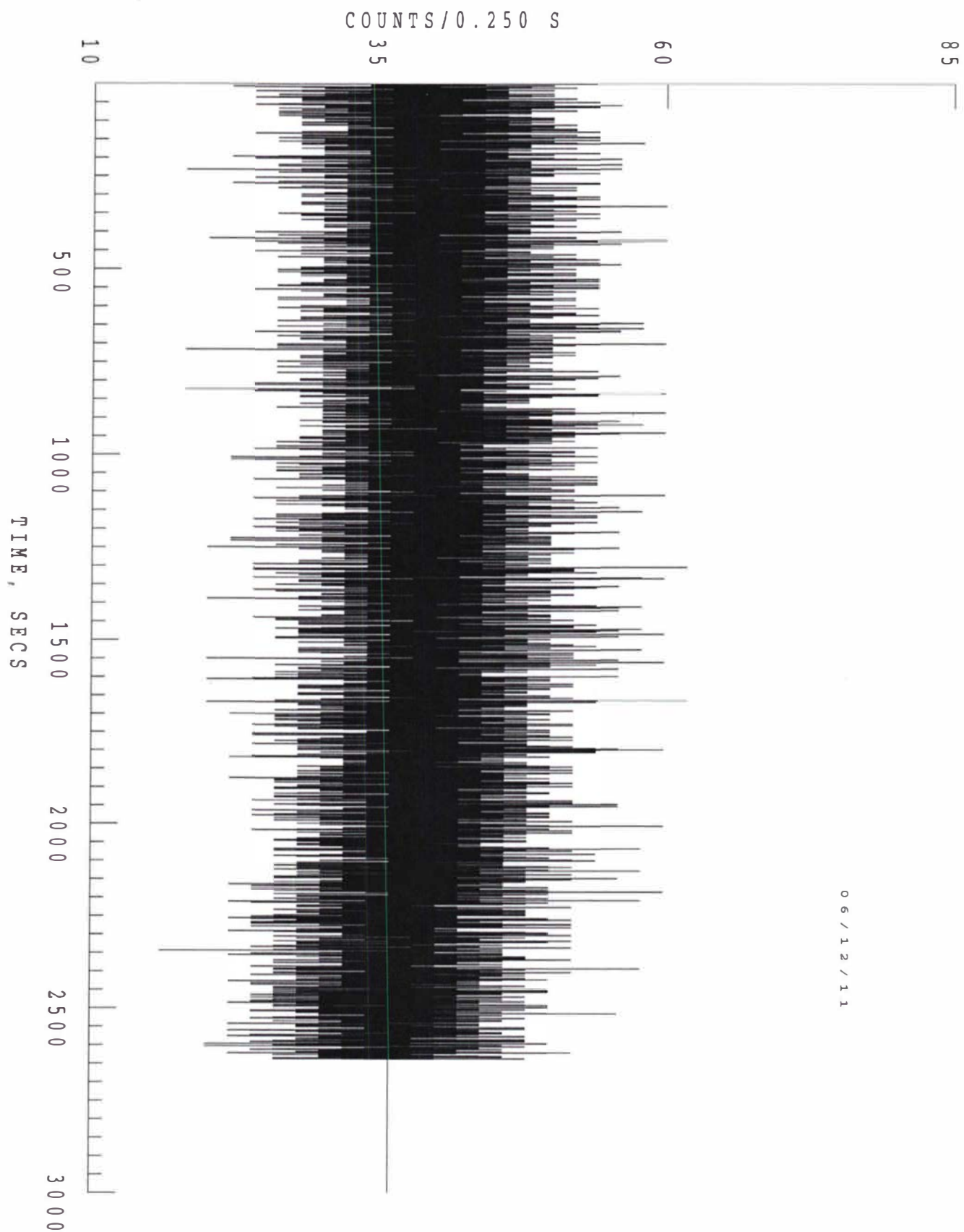
Part 1.5	Content-Type: text/plain
	Content-Encoding: 7bit

MS01

13/09/11

77970.862

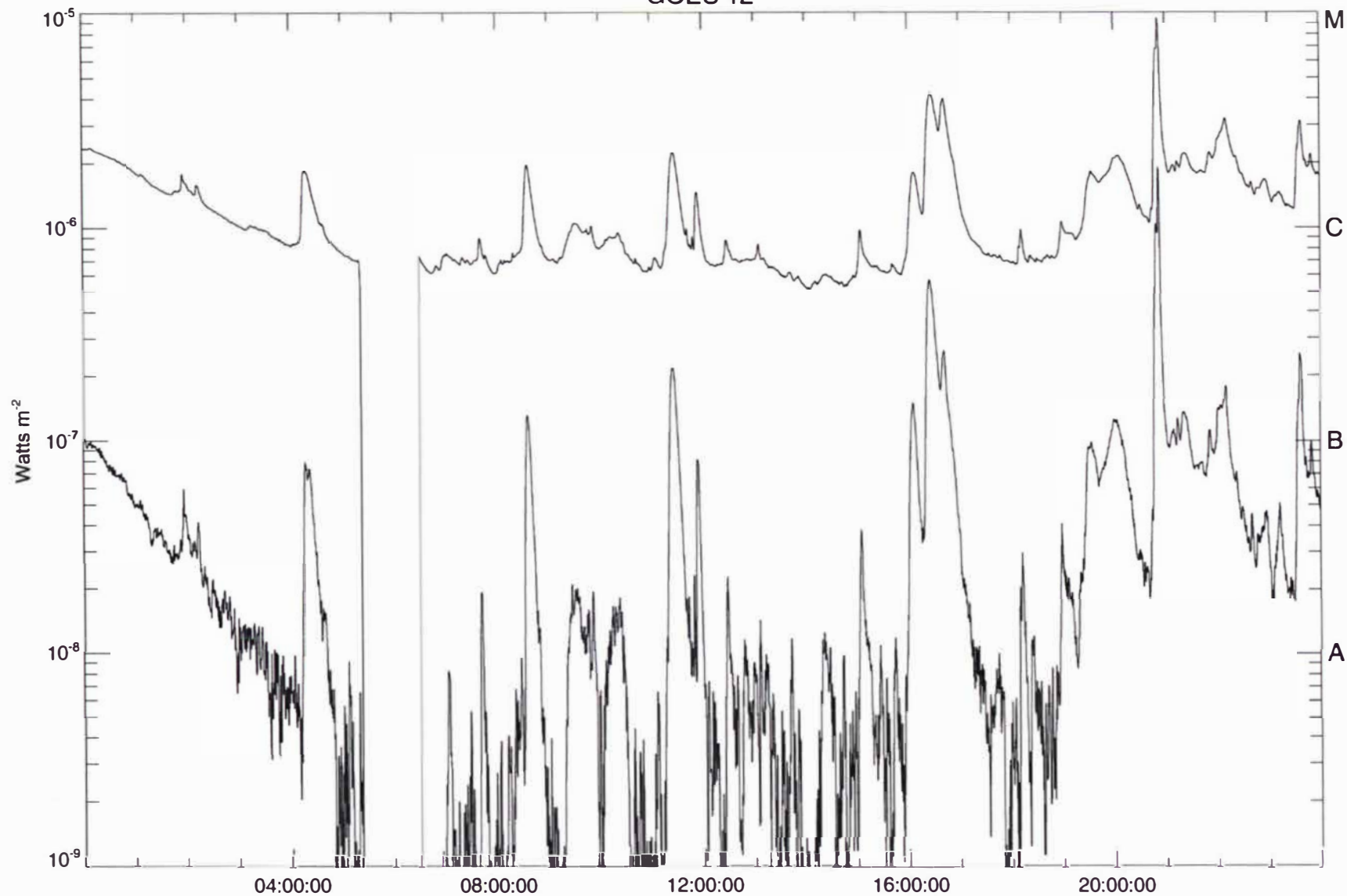
50 - 3000 keV



From williams@gammaburst.ssl.berkeley.edu Tue Dec 6 14:34:36 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 6 Dec 2011 14:29:34 -0800 (PST)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for SUZAKU RI 20110913_79285
X-Ucb-Scan-Signature: fa520c0abf3b5746cfc8b397a113d5a507f8211c
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -1.201'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 6-Dec-2011 14:33:26.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.500000
Full time range in SAA
No Eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

GOES 12



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

Plot created: 11/09/17, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

A

From vxw@capella2.gsfc.nasa.gov Thu Sep 15 06:22:44 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Thu, 15 Sep 2011 09:24:41 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: f05f66b8e35f6f7600540dfc36f0698694253d7b
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

NOTICE_DATE: Thu 15 Sep 11 13:24:39 UT

NOTICE_TYPE: Swift-BAT GRB Lightcurve

TRIGGER_NUM: 503219, Seg Num: 0

GRB_RA: 310.851d {+20h 43m 24s} (J2000),
311.001d {+20h 44m 00s} (current),
310.207d {+20h 40m 50s} (1950)

GRB_DEC: -0.709d {-00d 42' 33"} (J2000),
-0.667d {-00d 40' 00"} (current),
-0.890d {-00d 53' 24"} (1950)

GRB_DATE: 15819 TJD; 258 DOY; 11/09/15

GRB_TIME: 48044.40 SOD {13:20:44.40} UT

TRIGGER_INDEX: 147

GRB_PHI: 81.84 [deg]

GRB_THETA: 33.01 [deg]

DELTA_TIME: -56.00 [sec]

TRIGGER_DUR: 1.024 [sec]

SOLN_STATUS: 0x3

RATE_SIGNIF: 11.61 [sigma]

MAGE_SIGNIF: 7.14 [sigma]

LC_URL: sw00503219000msb.lc

SUN_POSTN: 172.98d {+11h 31m 56s} +3.03d {+03d 01' 50"}

SUN_DIST: 137.98 [deg] Sun_angle= -9.2 [hr] (East of Sun)

MOON_POSTN: 23.74d {+01h 34m 58s} +14.05d {+14d 02' 49"}

MOON_DIST: 73.44 [deg]

MOON_ILLUM: 91 [%]

GAL_COORDS: 45.88, -25.04 [deg] galactic lon,lat of the burst (or transient)

ECL_COORDS: 313.10, 16.83 [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 = 84.54, -14.37 [deg]

79 s

$5.7 \times 10^{-6} \text{ erg cm}^{-2}$

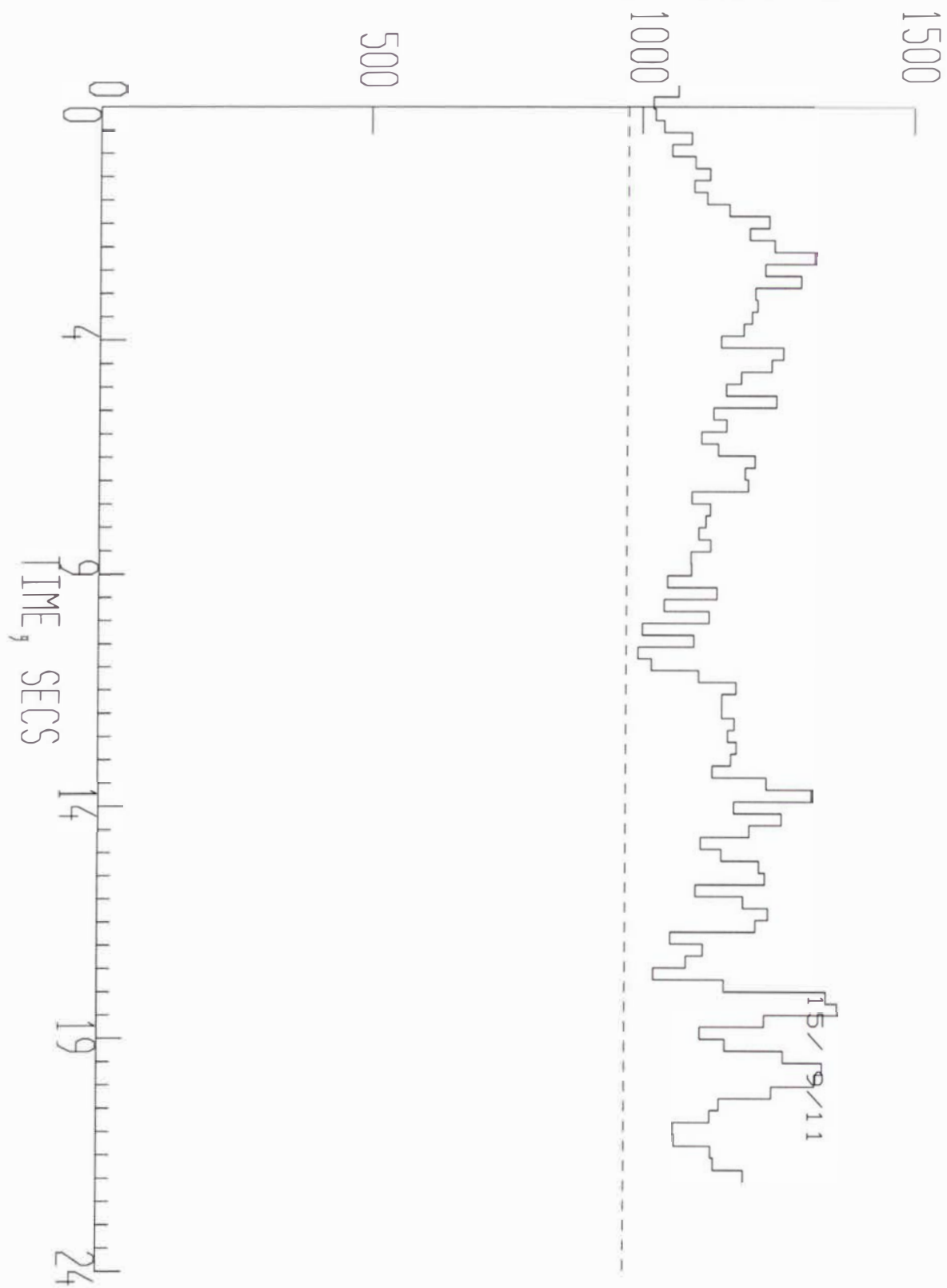
3.3 phot/cm²s

A

SWIFT 15/09/11 48044.408

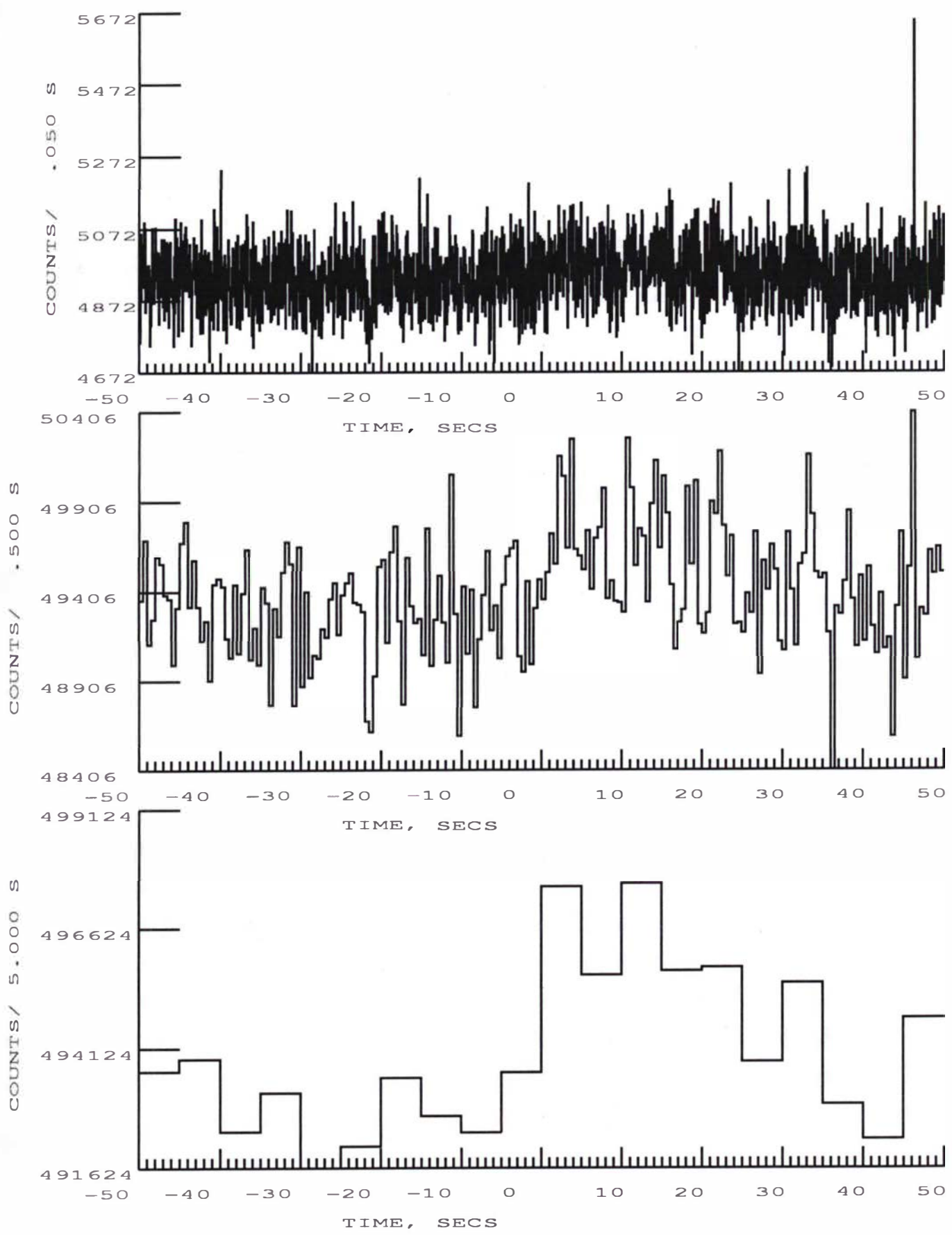
25- 100 keV

COUNTS/0.256 S



A

INTEGRAL 15/09/11 48044.000 13:20:44.0 20/01/14



MS01

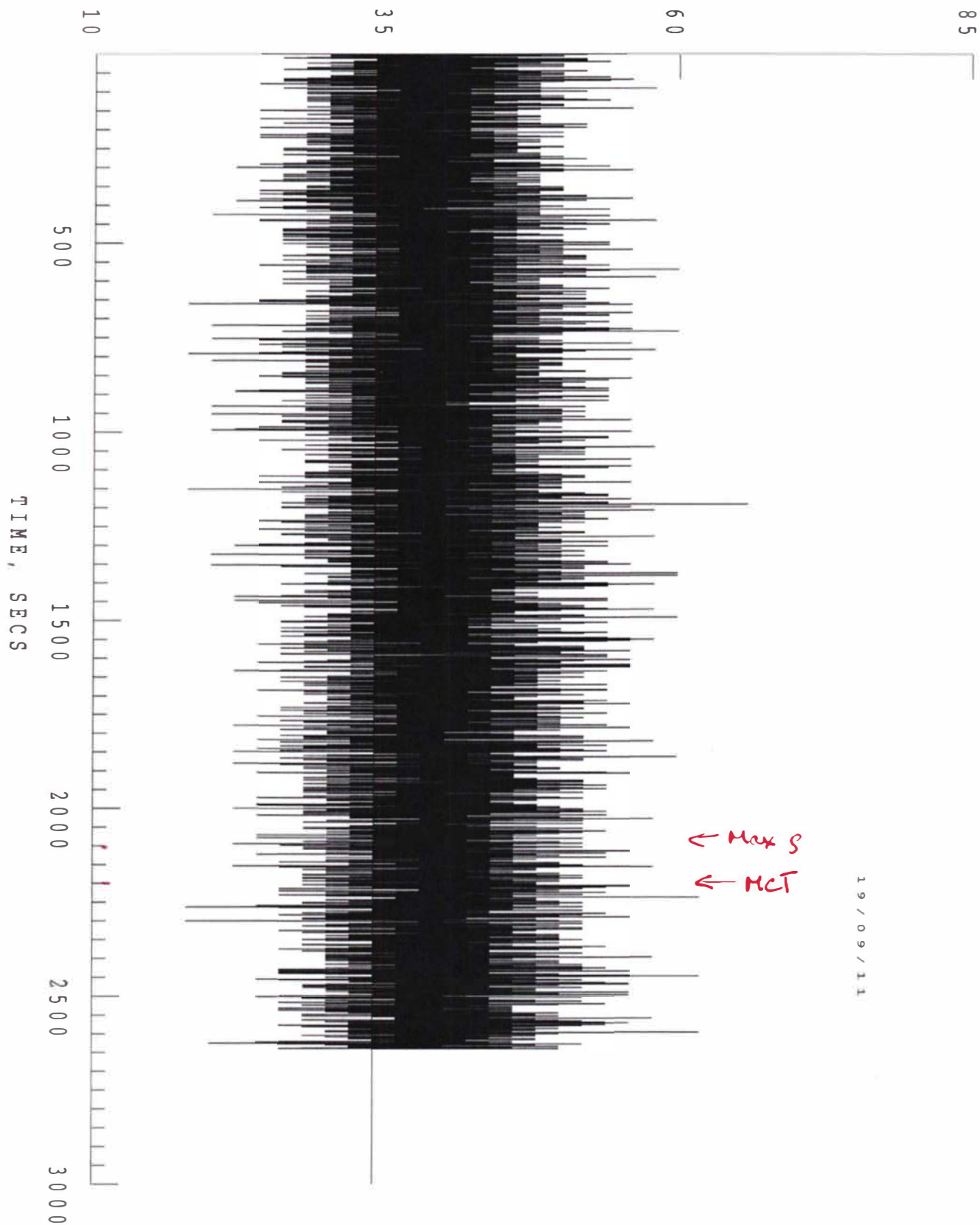
15/09/11

46709.364

A

50 - 3000 keV

COUNTS/0.250 S



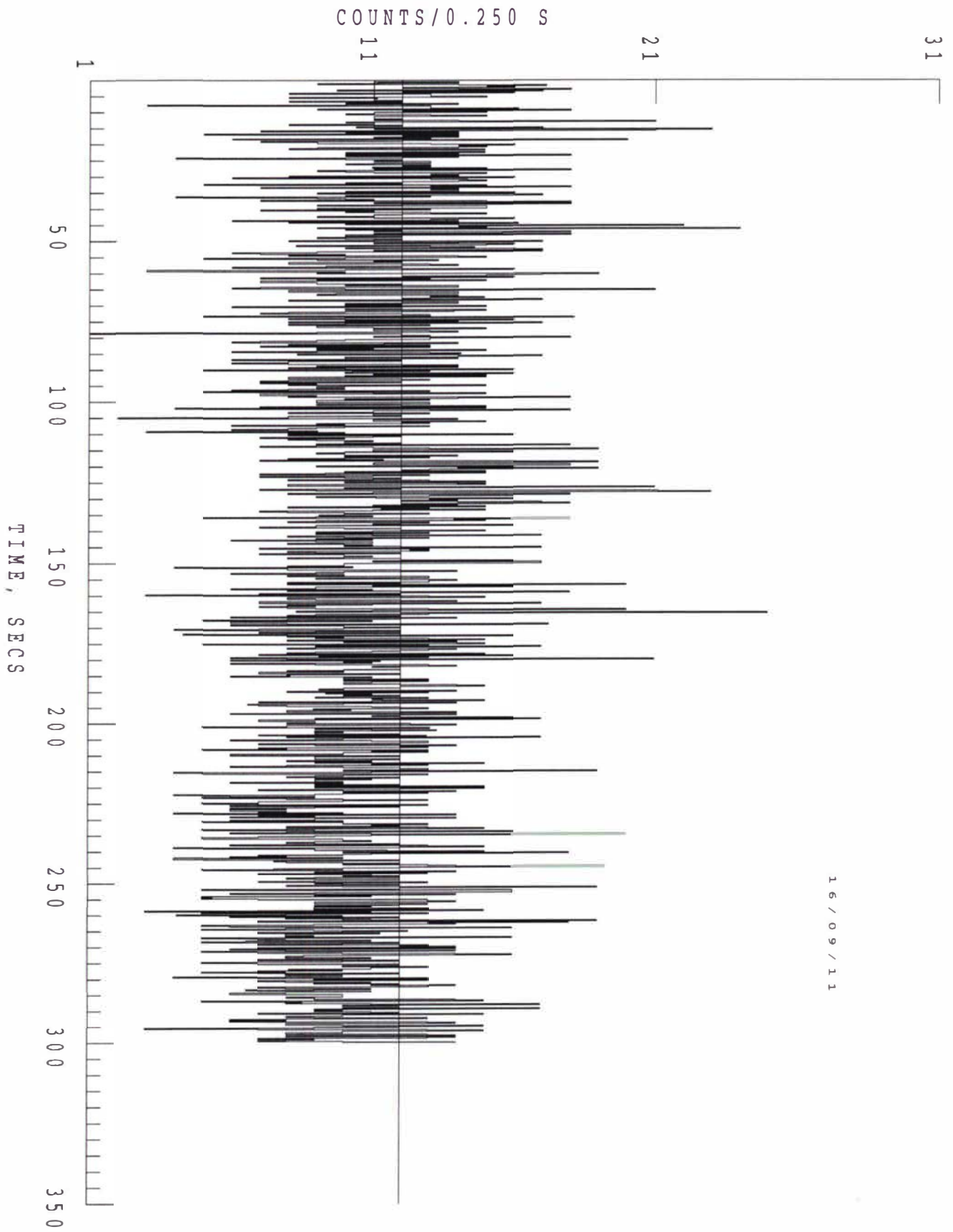
19/09/11

HESSI

15/09/11 47894.000 (SWIFT_20110915_48044)

A

25- 150 keV



From gncirc@capella2.gsfc.nasa.gov Thu Sep 15 14:27:42 2011 B
X-Barracuda-Envelope-From: gncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gncirc@capella2.gsfc.nasa.gov>
Subject: GRB 110915B: SuperAGILE localization of a long GRB
To: khurley@ssl.berkeley.edu
Date: Thu, 15 Sep 2011 17:29:15 -0400 (EDT)
X-Ucb-Scan-Signature: ecedaa8bdbd32e98cc7fc7643addf58bf73e5db9
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: 12341
SUBJECT: GRB 110915B: SuperAGILE localization of a long GRB
DATE: 11/09/15 21:29:14 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, M. Cardillo, G. Pucella, V. Vittorini, A. Argan, A. Trois,
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:

66259

"SuperAGILE detected a gamma ray burst on 15 September 2011, at 18:24:19 UT.
The event had a duration of about 18 s in the 20-60 keV energy range,
with a single peak structure. Assuming a crab-like energy spectrum,
the peak flux on 1-s timescale was 7.73×10^{-8} erg/cm²/s.
The burst position was reconstructed as (RA, Dec)
(77.548, 1.925) deg, which is:

RA(J2000) = 05h 10m 11.57s
Dec(J2000) = 1d 55' 30.98"

with an uncertainty of 4' 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.

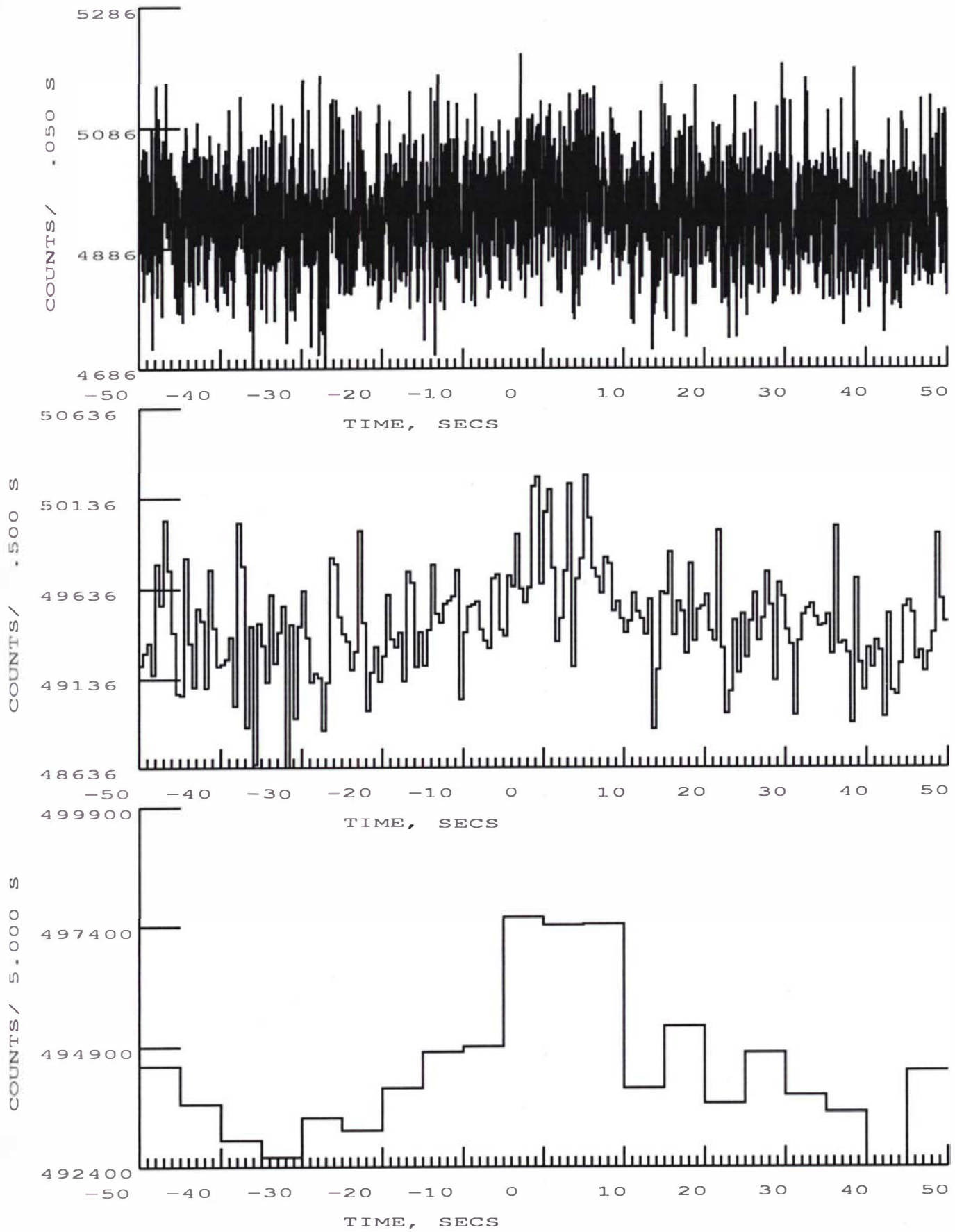
INTEGRAL

15/09/11

66259.000

18:24:19.0

20/01/14



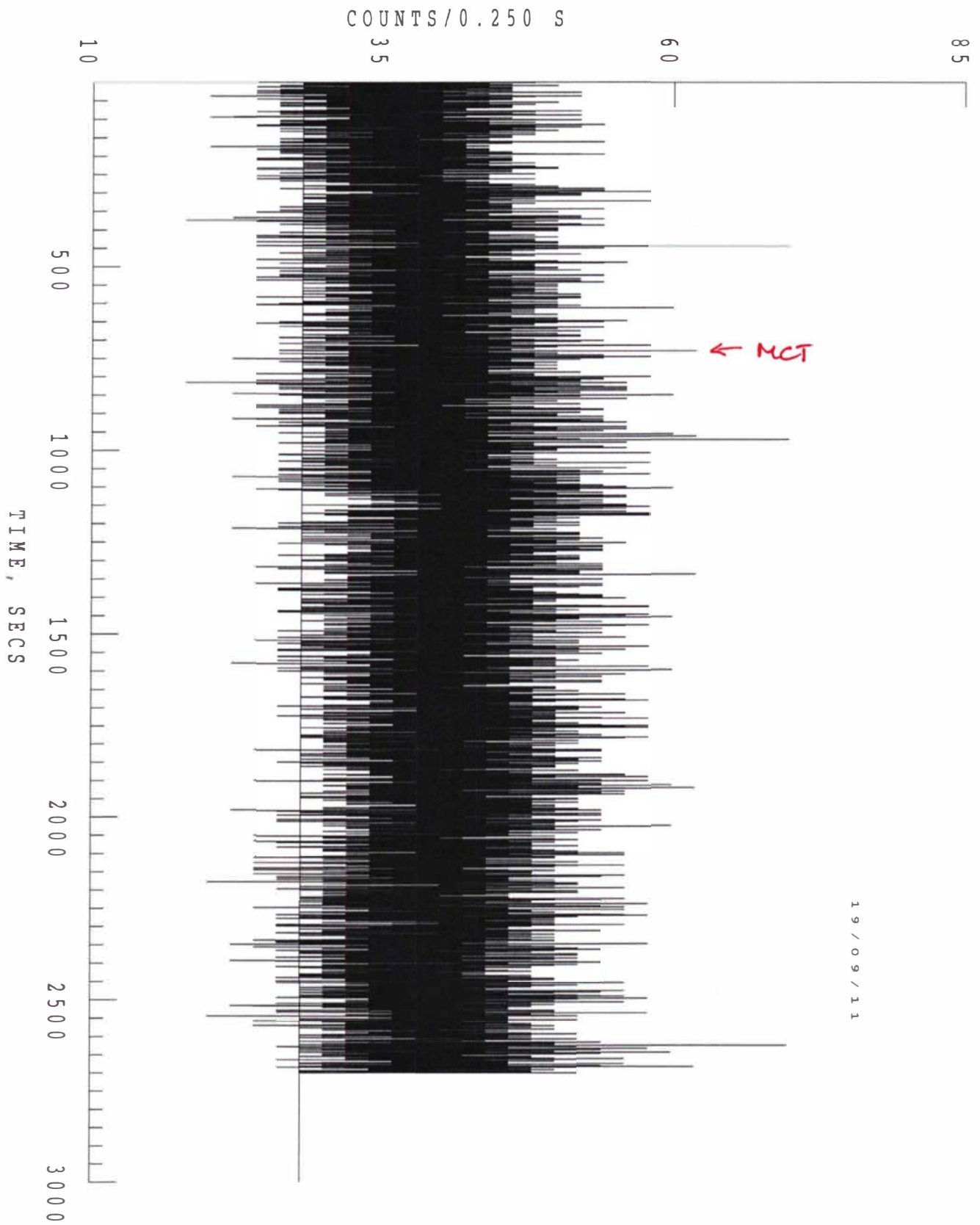
MS01

15/09/11

64889.057

B

50 - 3000 keV



HESSI

15/09/11 66209.000 (AGILE_20110915_66259)

B

25- 150 keV

COUNTS/0.500 S



16/09/11

02/12/11

MESSENGER

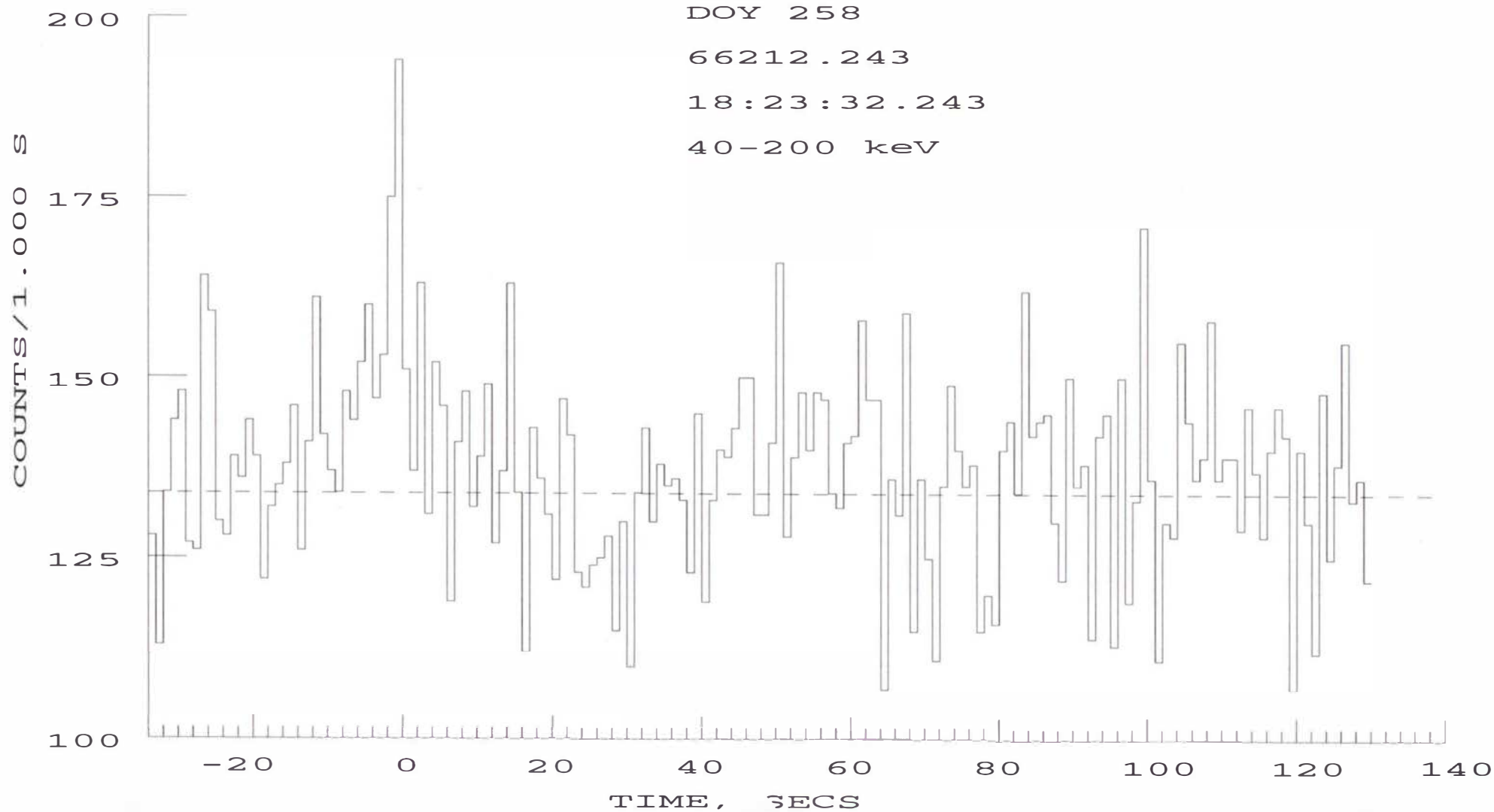
15/09/11

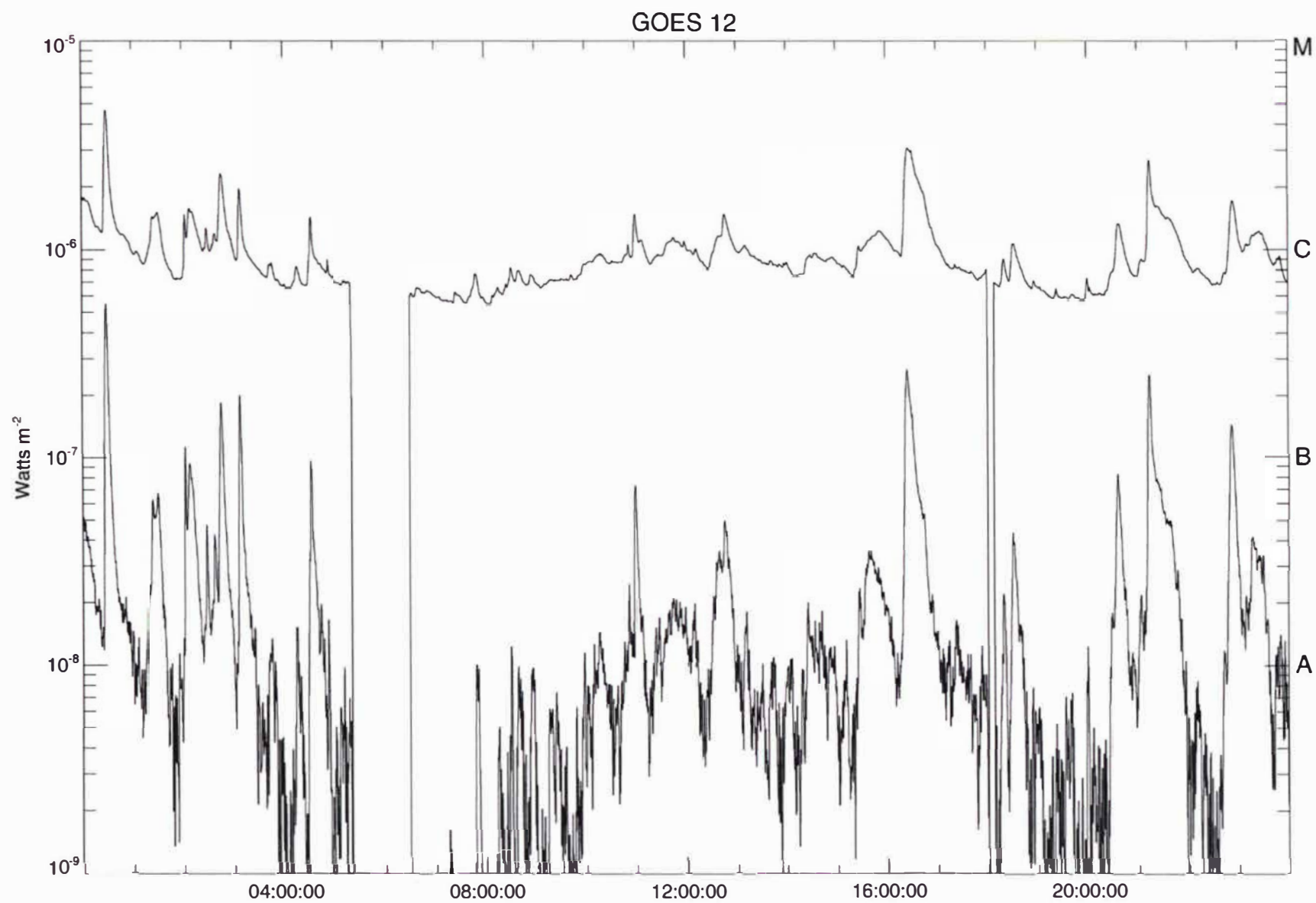
DOY 258

66212.243

18:23:32.243

40-200 keV





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

Plot created: 11/09/18, 0833

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

GLAST

16/09/11

1381.648

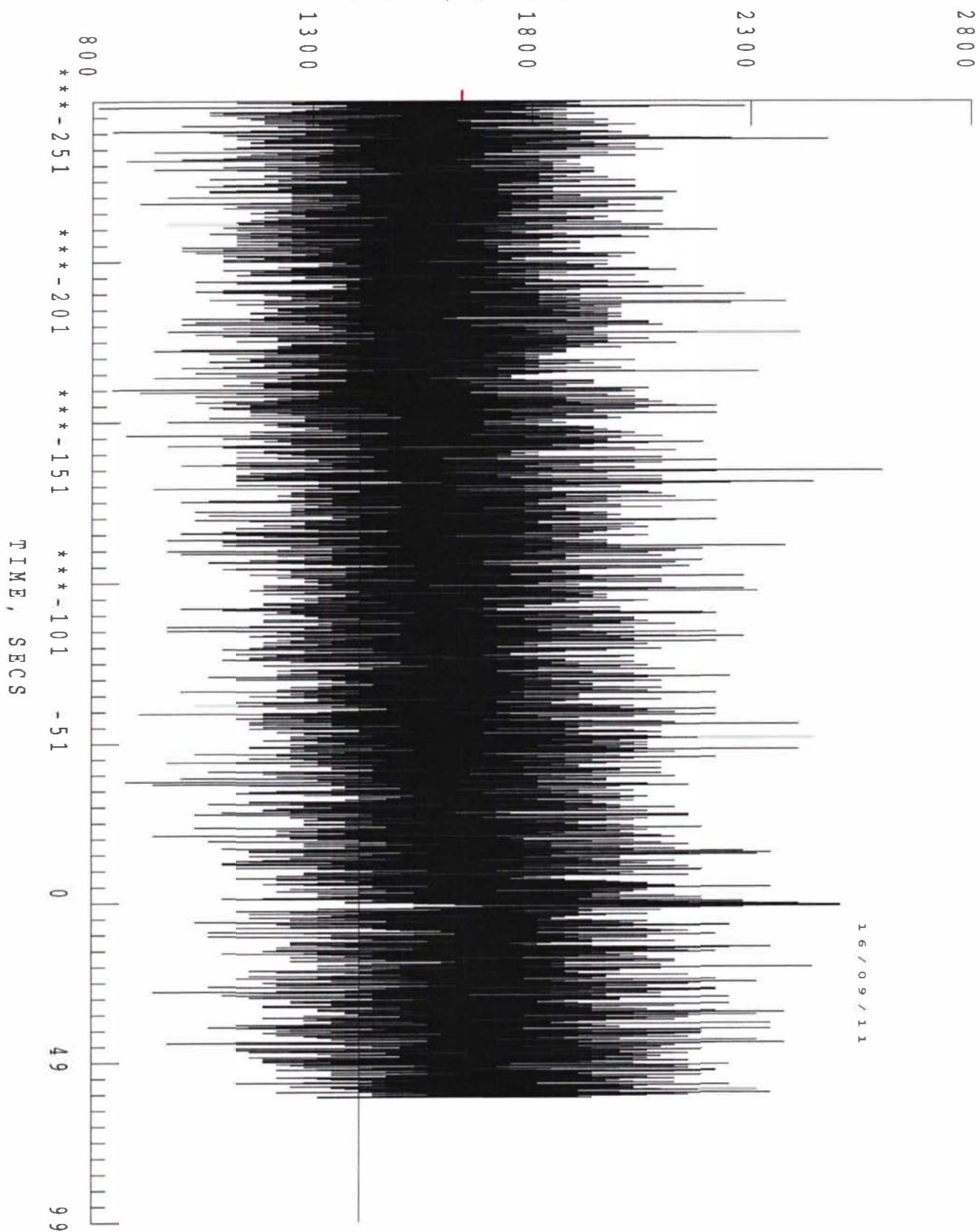
00:23:01

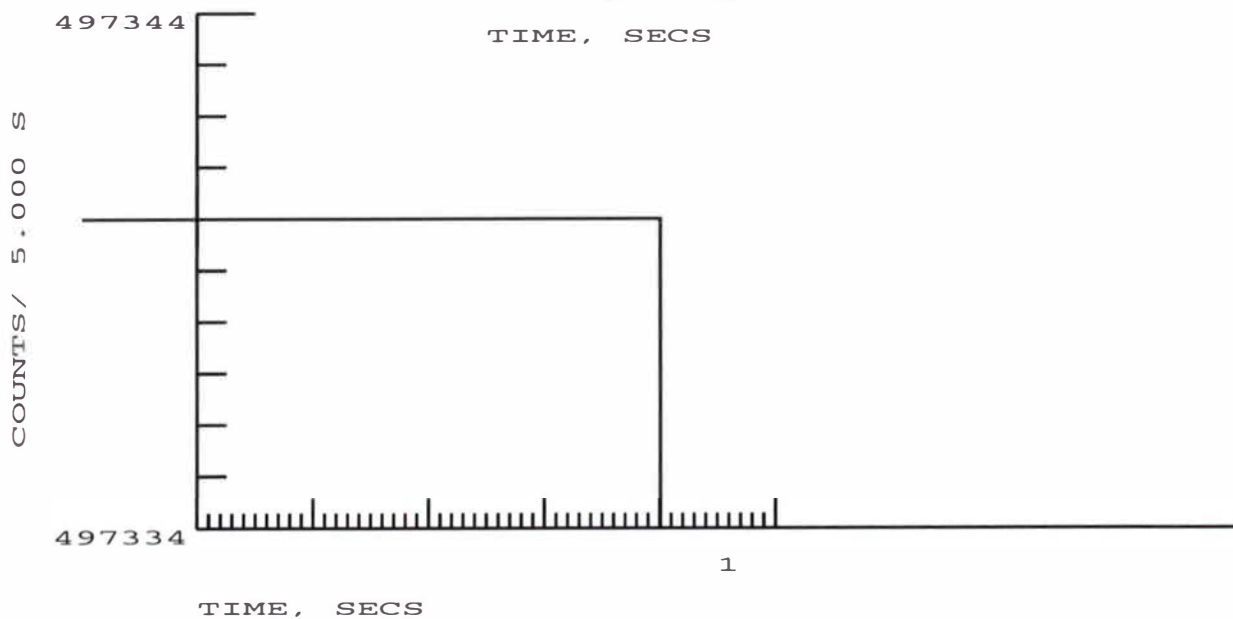
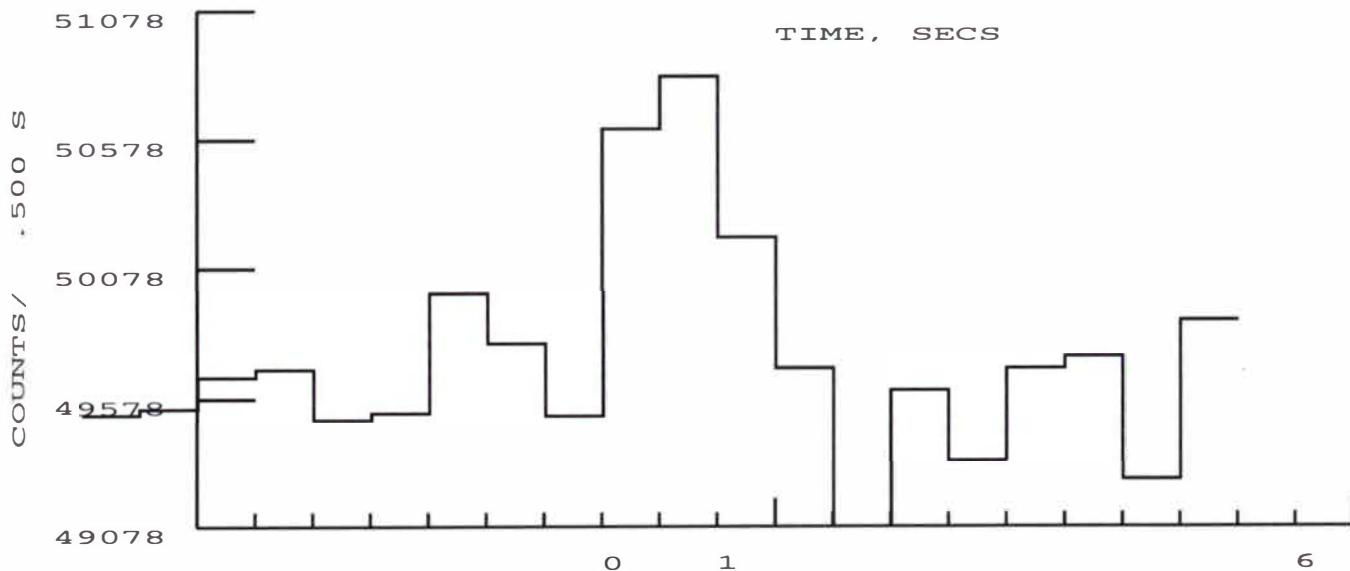
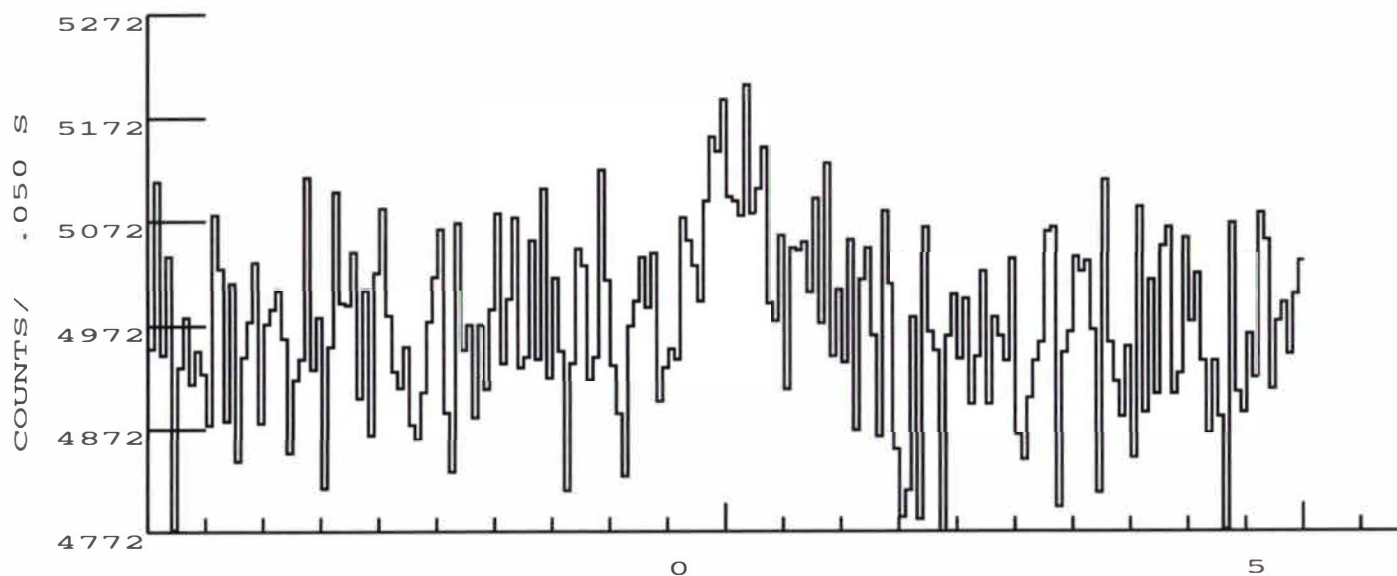
A

26- 293 keV

$\alpha, \delta, R = 0$

COUNTS/0.032 S





MS01

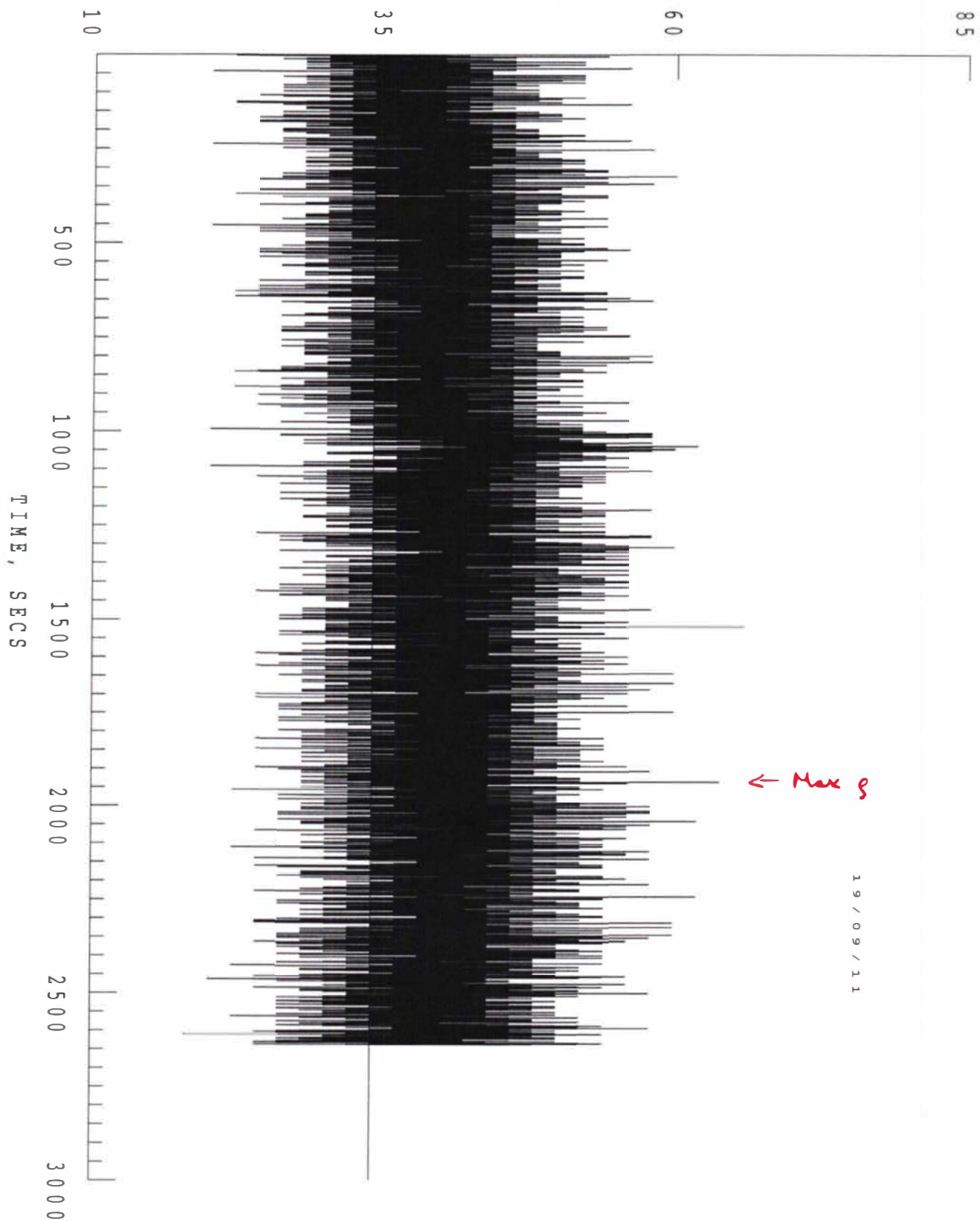
16/09/11

28.687

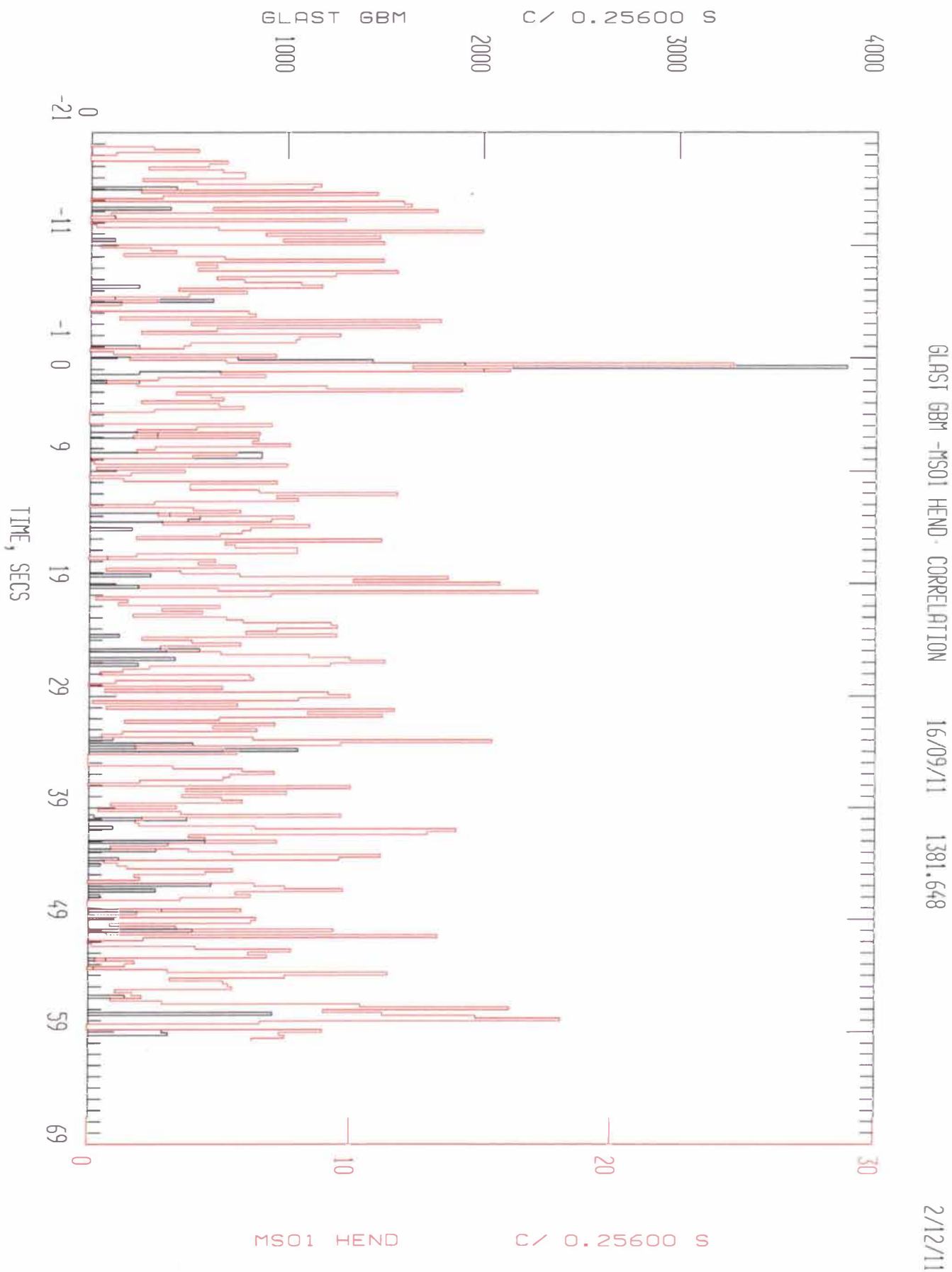
A

50 - 3000 keV

COUNTS/0.250 S



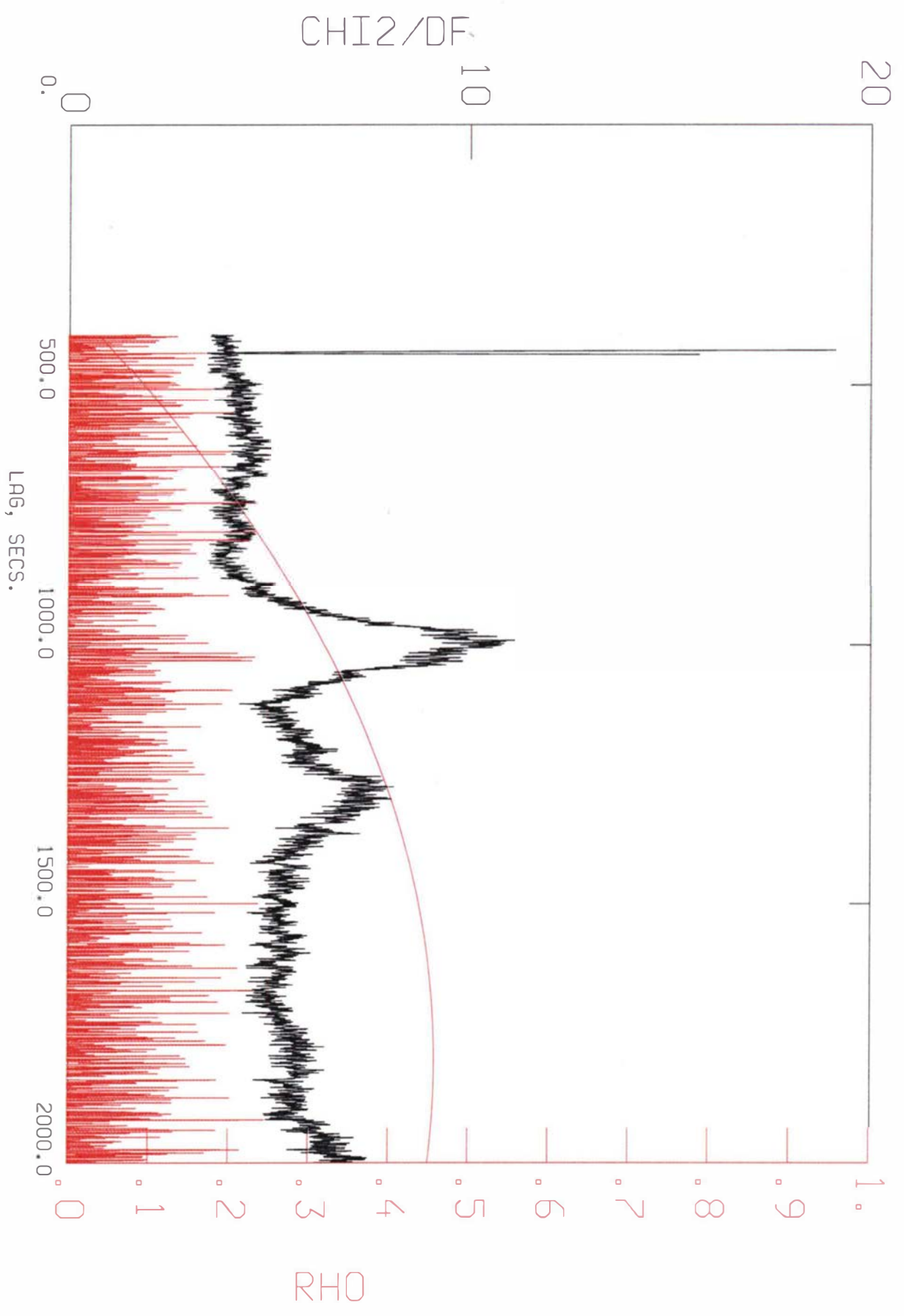
A



A

GLAST GBM -MS01 HEND CORRELATION 16/09/11 1381.648

2/12/11



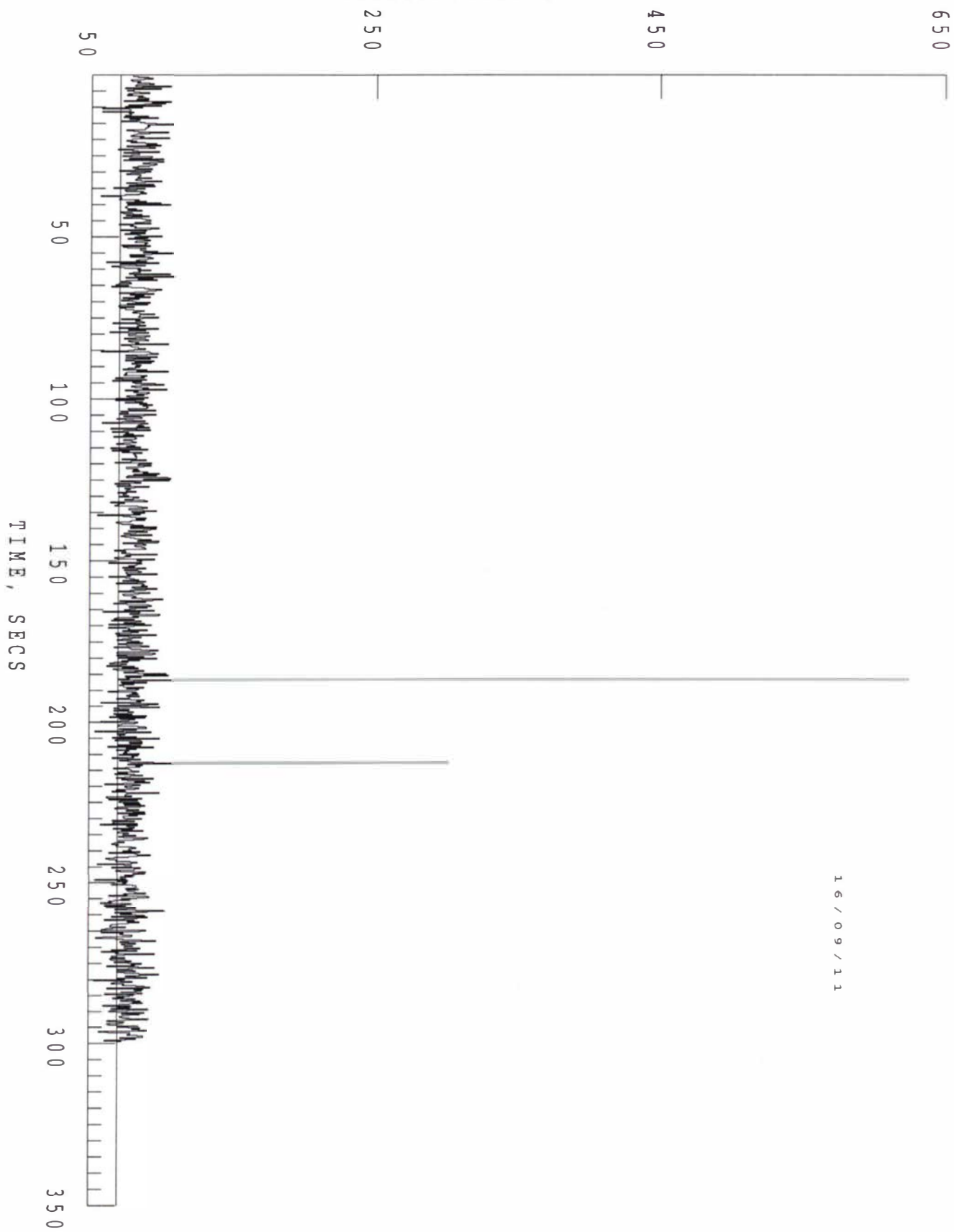
HESSI

16/09/11 1231.000 (GLAST_20110916_01381)

A

25 - 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 110916_0023

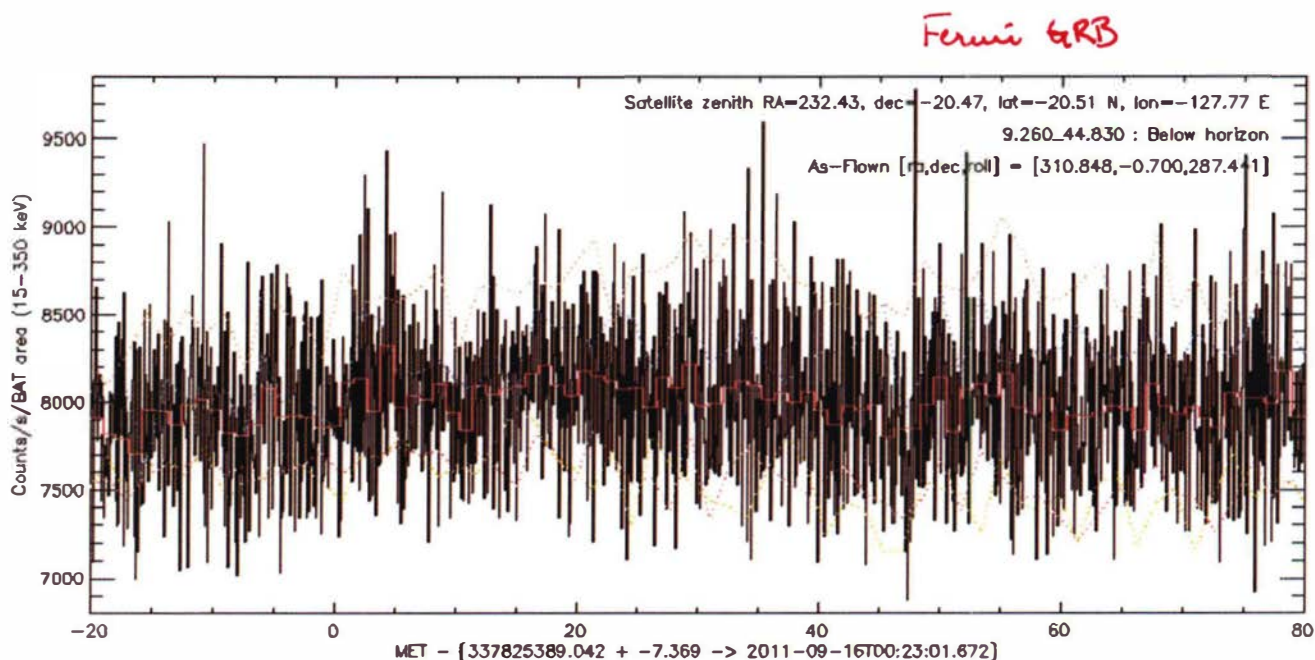
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 16 Sep 2011 17:05:17 -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/110916_0023.png



```
% /usr/local/bin/swinfo -o 337825389.041 -s 5.250_46.283
Time(MET + UTC -> UT): 337825389.042 + -7.369 -> 2011-09-16T00:23:01.672
Swift Zenith(RA,dec): 232.43, -20.47
Swift Location(lon,lat,alt): -127.77 E, -20.51 N, 590 km
Obs Sequence Number: 00503219001
Obs Target Name: GRB 110915A
Obs Date and Times: 2011-09-16 00:21:29 - 00:32:49
Obs Pointing(ra,dec,roll): 310.848, -0.700, 287.44
5.250_46.283_imageloc (boresight_dist, angle): (67, 20)
5.250_46.283_exposure (cm^2 cos adjusted): 0
5.250_46.283_altitude: -20 (down)
```

```
% /usr/local/bin/swinfo -o 337825389.041 -s 9.260_44.830
Time(MET + UTC -> UT): 337825389.042 + -7.369 -> 2011-09-16T00:23:01.672
Swift Zenith(RA,dec): 232.43, -20.47
Swift Location(lon,lat,alt): -127.77 E, -20.51 N, 590 km
Obs Sequence Number: 00503219001
Obs Target Name: GRB 110915A
Obs Date and Times: 2011-09-16 00:21:29 - 00:32:49
Obs Pointing(ra,dec,roll): 310.848, -0.700, 287.44
9.260_44.830_imageloc (boresight_dist, angle): (69, 23)
9.260_44.830_exposure (cm^2 cos adjusted): 0
9.260_44.830_altitude: -23 (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/110916_0023.png Content-Type: image/png

Content-Encoding: base64

/tmp/110916_0023_bat64ms_ipn

/tmp/110916_0023_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
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Part 1.5

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

From gncirc@capella2.gsfc.nasa.gov Tue Sep 20 02:37:51 2011
X-Barracuda-Envelope-From: gncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gncirc@capella2.gsfc.nasa.gov>
Subject: MAXI/GSC detection of a short soft X-ray transient
To: khurley@ssl.berkeley.edu
Date: Tue, 20 Sep 2011 05:39:25 -0400 (EDT)
X-Ucb-Scan-Signature: 5be4721c71c13e37fa889457e02d569271780eb1
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: 12360
SUBJECT: MAXI/GSC detection of a short soft X-ray transient
DATE: 11/09/20 09:39:23 GMT
FROM: Motoko Suzuki at RIKEN <motoko@crab.riken.jp>

M. Kohama (JAXA), T. Toizumi (Tokyo Tech), H. Negoro (Nihon U.),
M. Serino (RIKEN), S. Ueno, H. Tomida, M. Ishikawa (JAXA),
M. Matsuoka, T. Mihara, M. Sugizaki, S. Nakahira,
T. Yamamoto, T. Sootome (RIKEN),
N. Kawai, M. Morii, K. Sugimori, R. Usui (Tokyo Tech),
A. Yoshida, K. Yamaoka (AGU),
H. Tsunemi, M. Kimura, H. Kitayama (Osaka U.),
M. Nakajima, F. Suwa (Nihon U.),
Y. Ueda, K. Hiroi, M. Shidatsu (Kyoto U.),
Y. Tsuboi, T. Matsumura, K. Yamazaki (Chuo U.)
report on behalf of the MAXI team:

73981

MAXI/GSC triggered at UT 2011-09-16T20:33:01 on a bright uncatalogued
soft X-ray transient source.
The best-fit position of the source is

(R.A., Dec) = (+171.57 deg, -17.71 deg) = (11 26 16, -17 42 22) (J2000)

Since the emission was detected only for a fraction of the triangular
transit response, the uncertainty of its position along the scan direction
is large. Without assuming the source constancy, we obtain a rectangular
error box (90%C.L.) with the following corners:

(R.A., Dec) = (+170.94 deg, -17.43 deg) = (11 23 45, -17 25 47) (J2000)
(R.A., Dec) = (+171.14 deg, -17.18 deg) = (11 24 34, -17 10 35) (J2000)
(R.A., Dec) = (+172.19 deg, -18.00 deg) = (11 28 46, -17 59 51) (J2000)
(R.A., Dec) = (+171.98 deg, -18.24 deg) = (11 27 55, -18 14 37) (J2000)

The preliminary flux (4-10 keV) of the source is approximately 150 mCrab.
There was no significant detection at this position
in the previous and the following transits (92 min before and after the detection
with an upper limit of 20 mCrab.
There is no known bright source at the detected position.

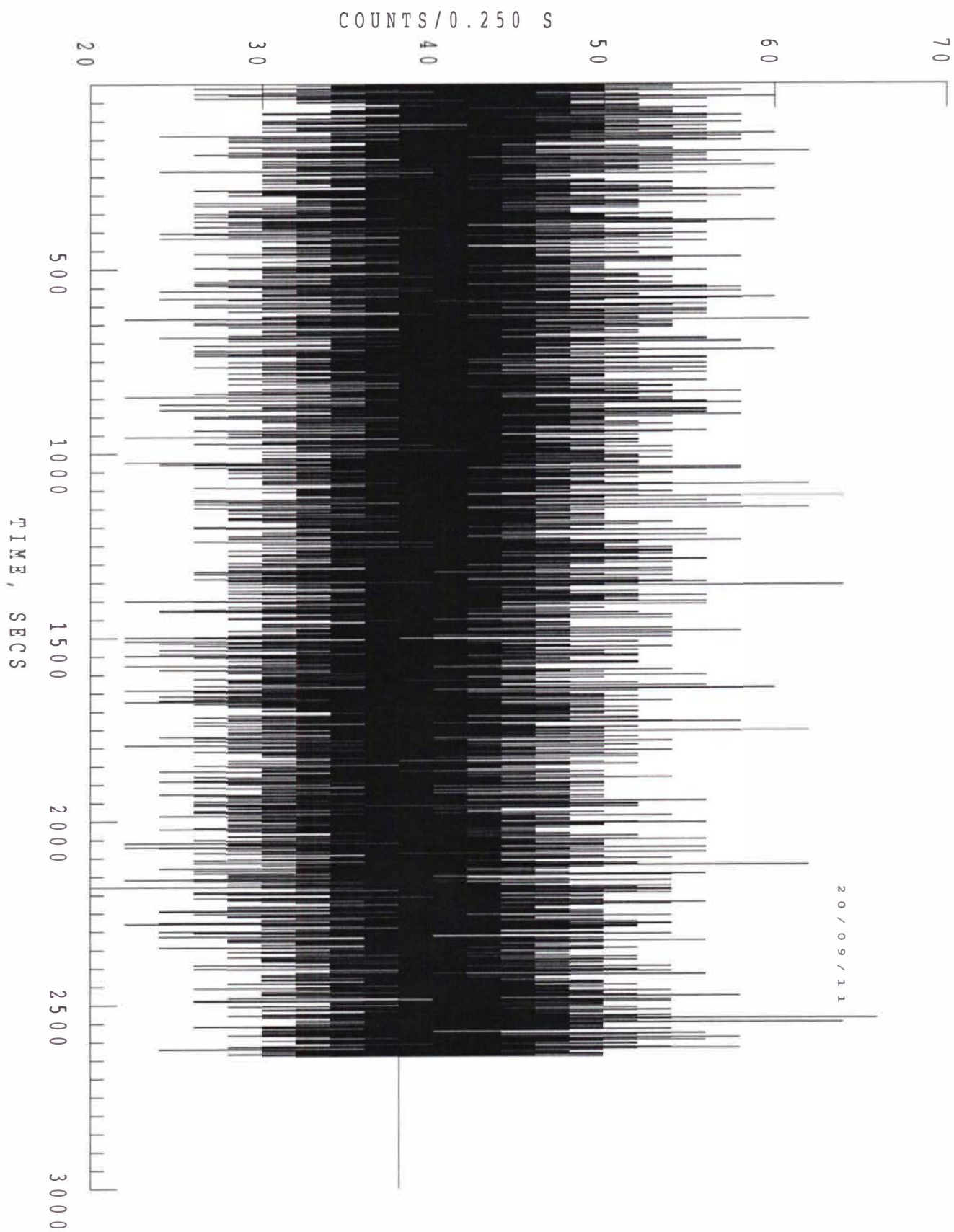
MS01

16/09/11

72627.437

B

50 - 3000 keV



EB

From williams@gammaburst.ssl.berkeley.edu Wed Sep 21 23:03:17 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Wed, 21 Sep 2011 23:02:43 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu

Subject: No_RHESSI_data_for_MAXI_20110916_73981

X-Ucb-Scan-Signature: 9827d9d328cd2f3c30fe09d4ef4b7c0e2bd65f81

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 21-Sep-2011 23:04:17.00
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

Subject: [lpn] BAT lightcurve for trigger at 110917_0755

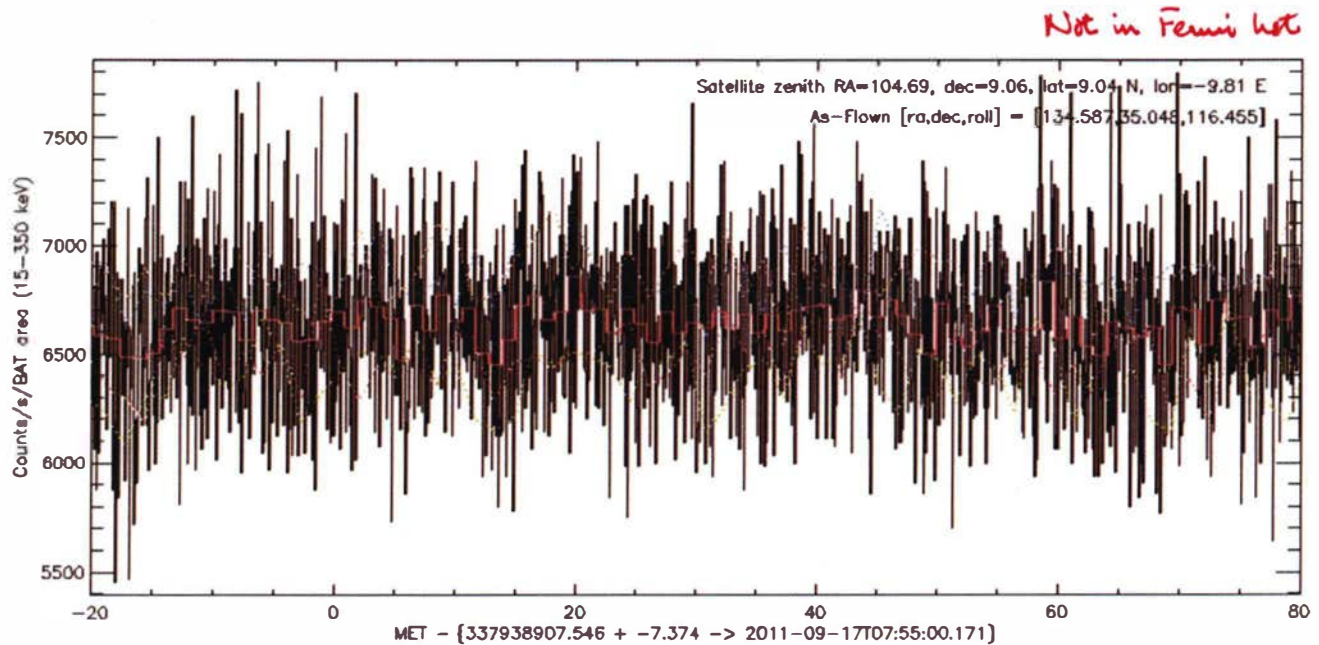
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 17 Sep 2011 07:28:30 -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/110917_0755.png



```
% /usr/local/bin/swinfo -o 337938907.545
Time(MET + UTC -> UT):      337938907.546 + -7.374 -> 2011-09-17T07:55:00.171
Swift Zenith(RA,dec):       104.69, 9.06
Swift Location(lon,lat,alt): -9.81 E, 9.04 N, 575 km
Obs Sequence Number:        00039584001
Obs Target Name:             SDSS J085823.36+350204.0
Obs Date and Times:          2011-09-17 07:49:54 - 07:57:51
Obs Pointing(ra,dec,roll):   134.587, 35.048, 116.45
```

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

/tmp/110917_0755_bat64ms_lpn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110917_0755.png

/tmp/110917_0755.png	Content-Type: image/png Content-Encoding: base64
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Part 1.4

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

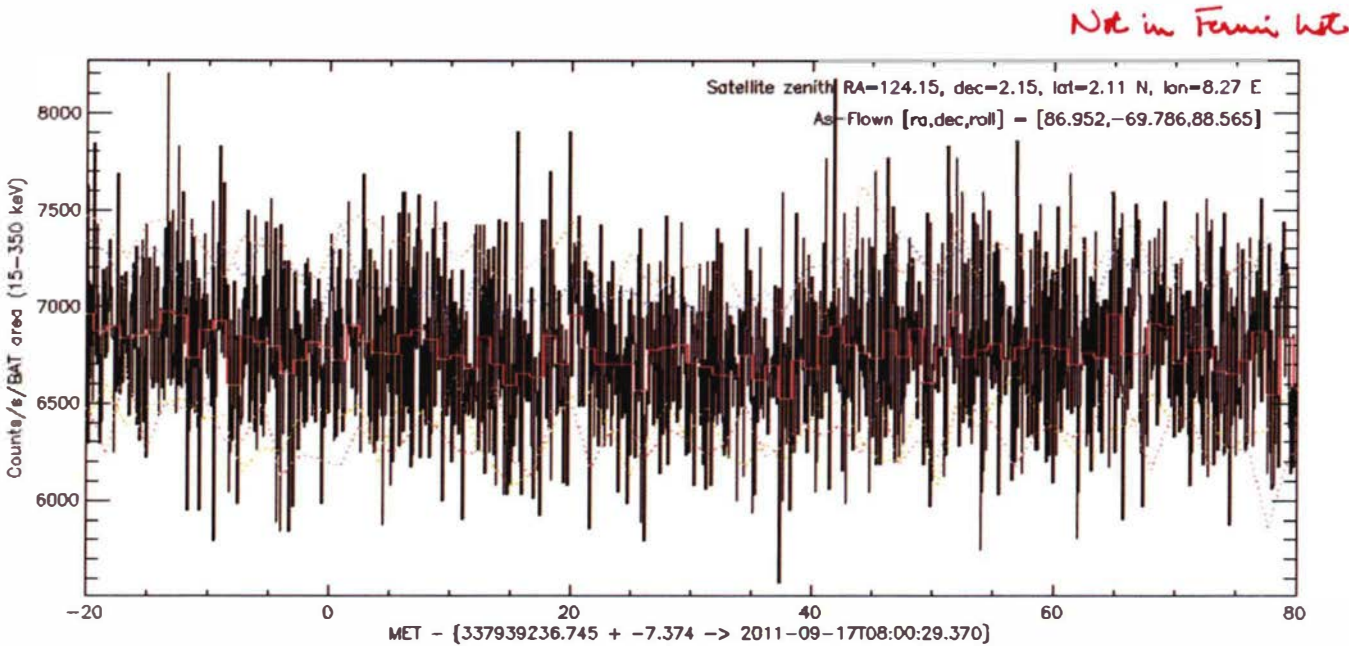
Part 1.5

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

Subject: [Ipn] BAT lightcurve for trigger at 110917_0800
From: palmer+automatic_lightcurve@lanl.gov
Date: Sat, 17 Sep 2011 07:28:31 -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/110917_0800.png



```
% /usr/local/bin/swinfo -o 337939236.744
Time(MET + UTCF -> UT):      337939236.745 + -7.374 -> 2011-09-17T08:00:29.370
Swift Zenith(RA,dec):        124.15, 2.15
Swift Location(lon,lat,alt):  8.27 E, 2.11 N, 575 km
Obs Sequence Number:          00045486001
Obs Target Name:               LMC_Survey_65
Obs Date and Times:            2011-09-17 07:57:54 - 08:22:53
Obs Pointing(ra,dec,roll):    86.952, -69.786, 88.56
```

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

/tmp/110917_0800_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110917_0800.png

/tmp/110917_0800.png	Content-Type: image/png Content-Encoding: base64
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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 110917_0804

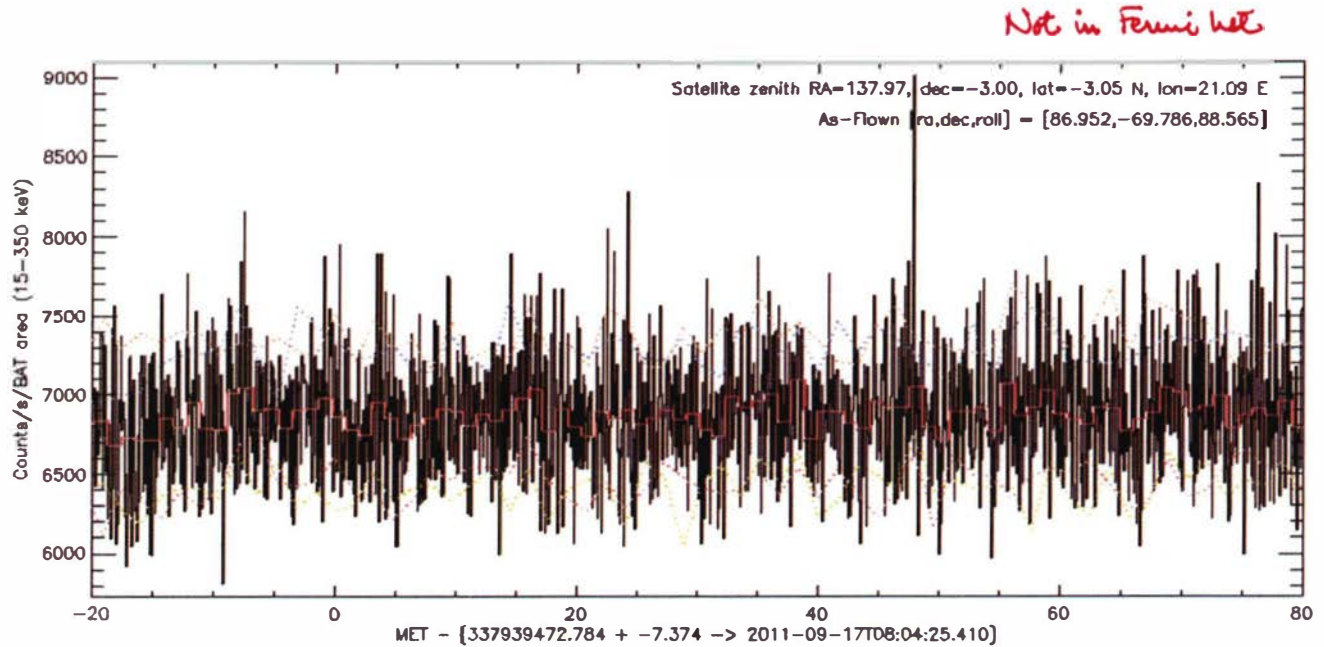
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 17 Sep 2011 05:59:12 -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/110917_0804.png



```
% /usr/local/bin/swinfo -o 337939472.784
Time(MET + UTC -> UT):      337939472.784 + -7.374 -> 2011-09-17T08:04:25.410
Swift Zenith(RA,dec):       137.97, -3.00
Swift Location(lon,lat,alt): 21.09 E, -3.05 N, 576 km
Obs Sequence Number:        00045486001
Obs Target Name:             LMC_Survey_65
Obs Date and Times:          2011-09-17 07:57:54 - 08:22:53
Obs Pointing(ra,dec,roll):   86.952, -69.786, 88.56
```

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

/tmp/110917_0804_bat64ms_lpn

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

/tmp/110917_0804.png

/tmp/110917_0804.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 110917_0834

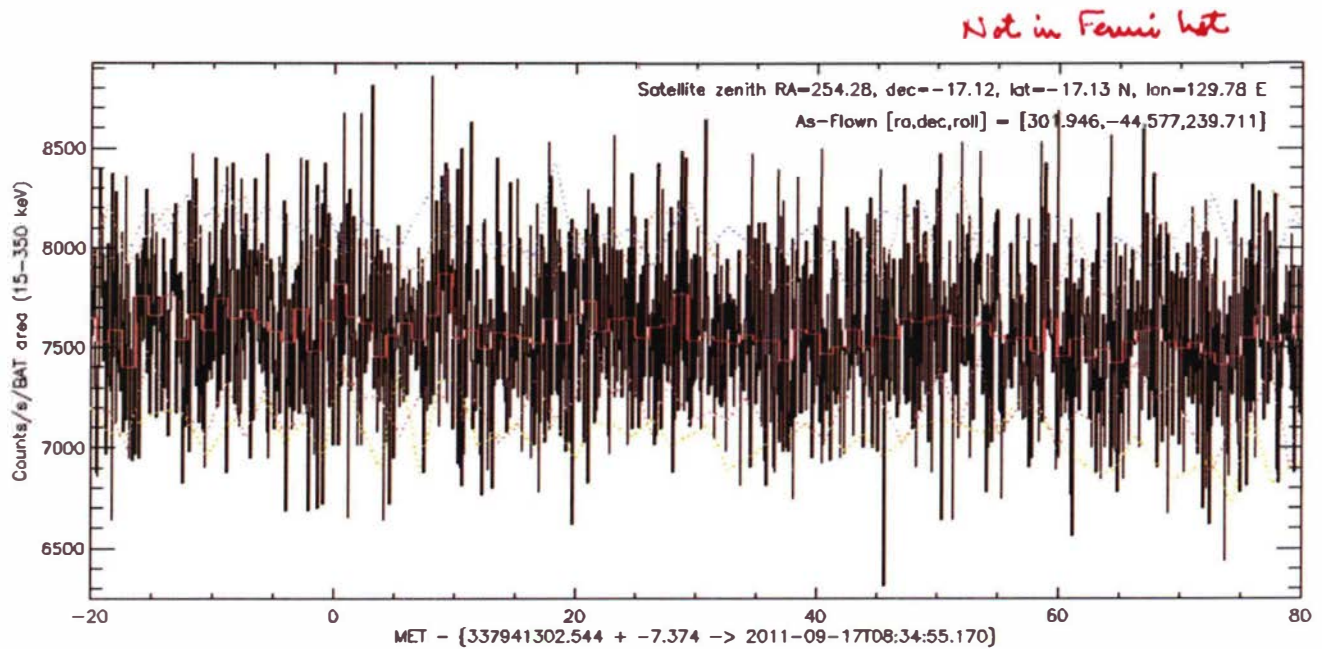
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 17 Sep 2011 05:59:12 -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/110917_0834.png



```
% /usr/local/bin/swinfo -o 337941302.544
Time(MET + UTCF -> UT):      337941302.544 + -7.374 -> 2011-09-17T08:34:55.170
Swift Zenith(RA,dec):        254.28, -17.12
Swift Location(lon,lat,alt):  129.78 E, -17.13 N, 591 km
Obs Sequence Number:         00091031005
Obs Target Name:              PKS 2004-447
Obs Date and Times:          2011-09-17 08:22:54 - 08:48:51
Obs Pointing(ra,dec,roll):    301.946, -44.577, 239.71
```

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

/tmp/110917_0834.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110917_0834_bat64ms_ipn

/tmp/110917_0834_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

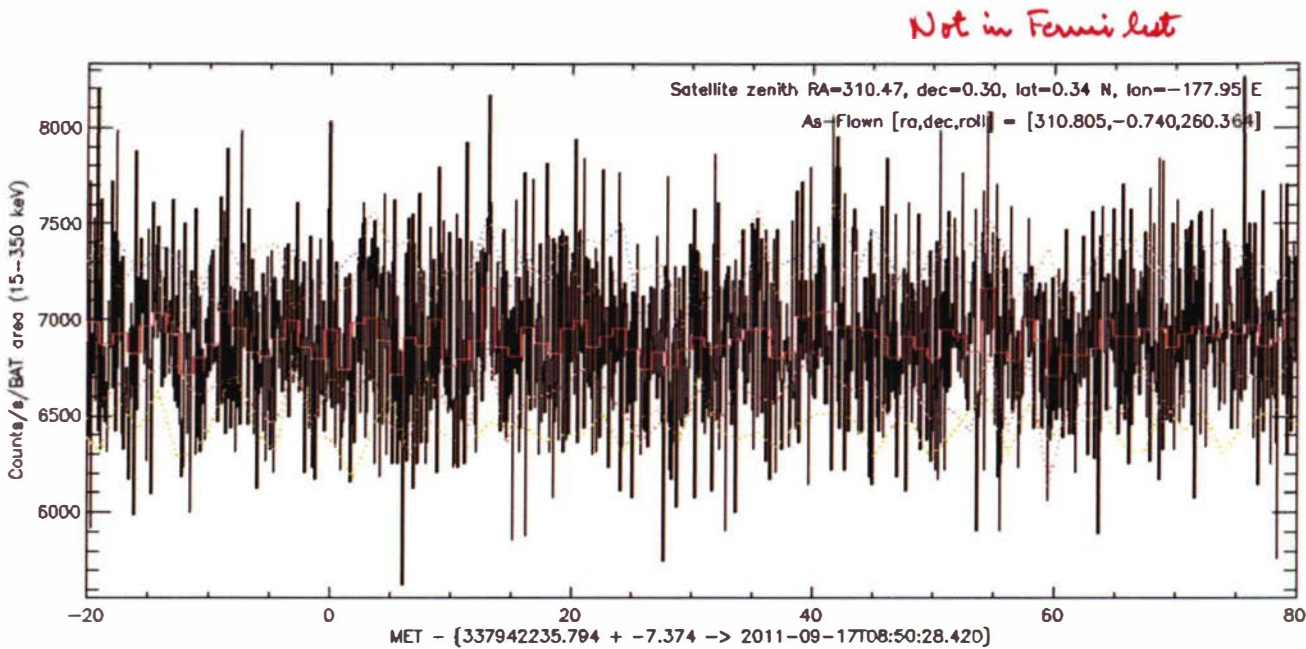
Part 1.5

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

Subject: [Ipn] BAT lightcurve for trigger at 110917_0850
From: palmer+automatic_lightcurve@lanl.gov
Date: Sat, 17 Sep 2011 05:29:14 -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/110917_0850.png



```
% /usr/local/bin/swinfo -o 337942235.794
Time(MET + UTCF -> UT):      337942235.794 + -7.374 -> 2011-09-17T08:50:28.420
Swift Zenith(RA,dec):        310.47, 0.30
Swift Location(lon,lat,alt):  -177.95 E, 0.34 N, 594 km
Obs Sequence Number:         00503219003
Obs Target Name:              GRB 110915A
Obs Date and Times:          2011-09-17 08:48:54 - 09:12:49
Obs Pointing(ra,dec,roll):    310.805, -0.740, 260.36
```

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

/tmp/110917_0850_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

/tmp/110917_0850.png

/tmp/110917_0850.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

Subject: [Ipn] BAT lightcurve for trigger at 110918_1630

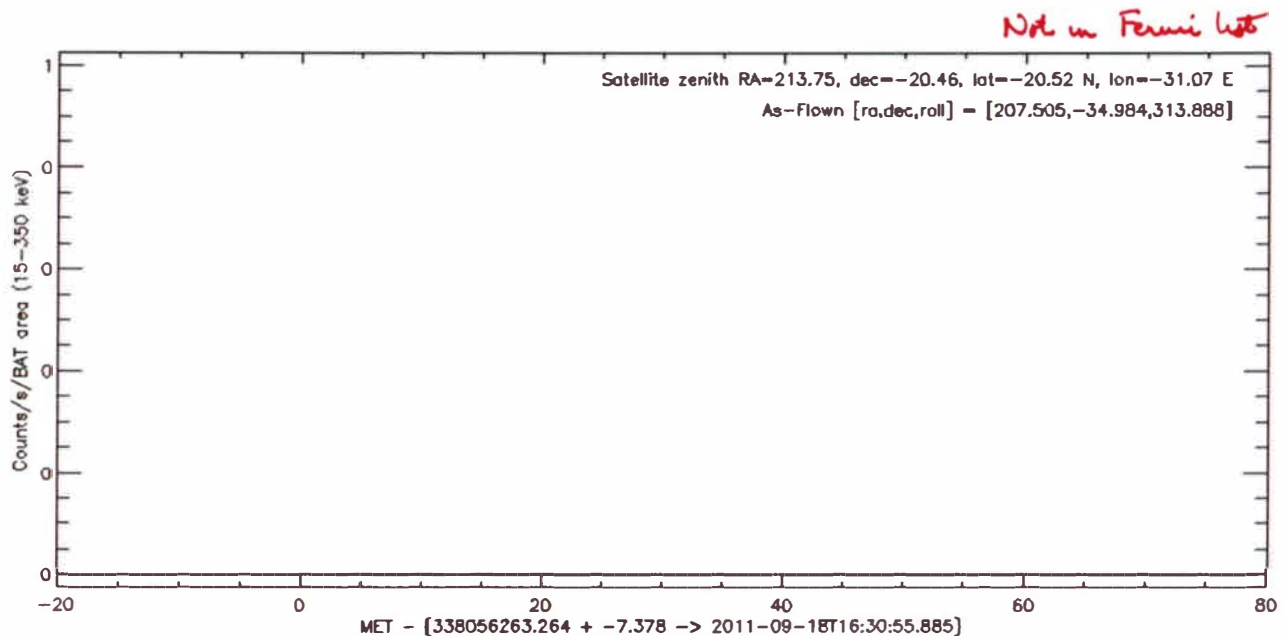
From: palmer+automatic_lightcurve@lanl.gov

Date: Sun, 18 Sep 2011 13:04:18 -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/110918_1630.png



```
% /usr/local/bin/swinfo -o 338056263.263
Time(MET + UTC -> UT):      338056263.264 + -7.378 -> 2011-09-18T16:30:55.885
Swift Zenith(RA,dec):       213.75, -20.46
Swift Location(lon,lat,alt): -31.07 E, -20.52 N, 584 km
Obs Sequence Number:        00074296012
Obs Target Name:             saa-cold-261-04
Obs Date and Times:          2011-09-18 16:14:54 - 16:41:52
Obs Pointing(ra,dec,roll):   207.505, -34.984, 313.89
```

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

/tmp/110918_1630.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110918_1630_bat64ms_ipn

/tmp/110918_1630_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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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 110918_1753

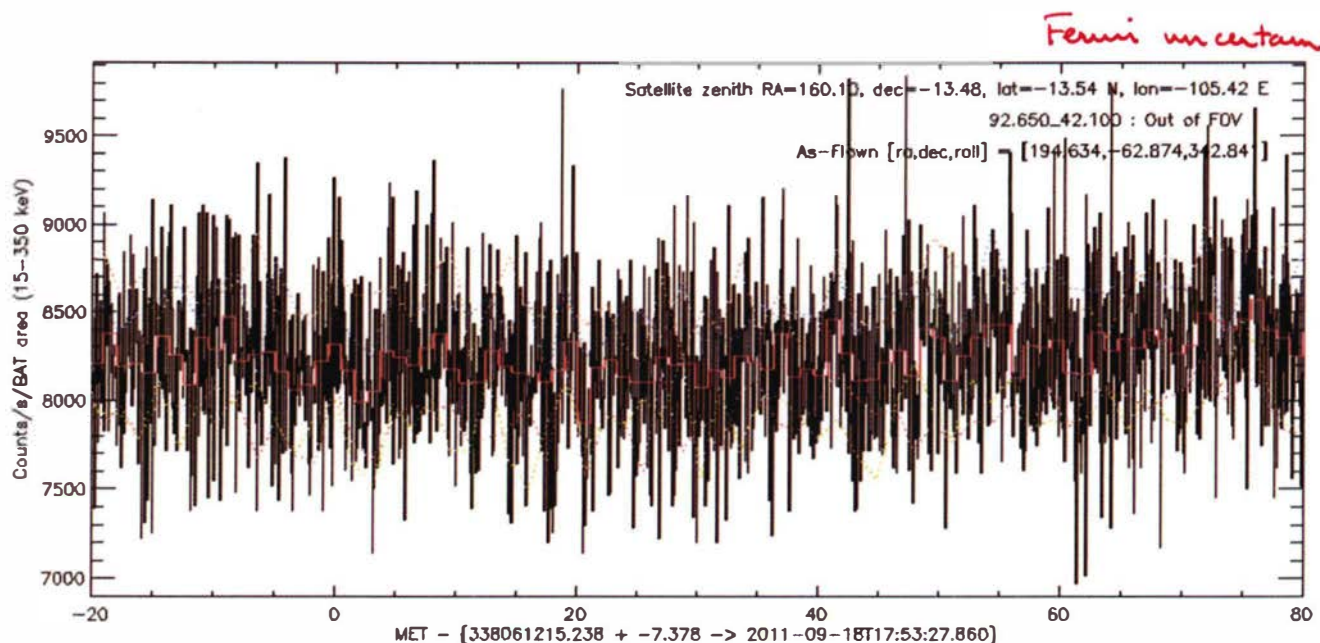
From: palmer+automatic_lightcurve@lanl.gov

Date: Sun, 18 Sep 2011 14:33:28 -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/110918_1753.png



```
% /usr/local/bin/swinfo -o 338061215.238 -s 357.100 -46.417
Time(MET + UTCF -> UT): 338061215.238 + -7.378 -> 2011-09-18T17:53:27.860
Swift Zenith(RA,dec): 160.10, -13.48
Swift Location(lon,lat,alt): -105.42 E, -13.54 N, 578 km
Obs Sequence Number: 00042118002
Obs Target Name: swift_gal_survey_95
Obs Date and Times: 2011-09-18 17:48:53 - 17:56:49
Obs Pointing(ra,dec,roll): 194.634, -62.874, 342.84
357.100_-46.417_imageloc (boresight_dist, angle): (70, 94)
357.100_-46.417_exposure (cm^2 cos adjusted): 0
357.100_-46.417_altitude: -5 (down)
```

```
% /usr/local/bin/swinfo -o 338061215.238 -s 92.650 42.100
Time(MET + UTCF -> UT): 338061215.238 + -7.378 -> 2011-09-18T17:53:27.860
Swift Zenith(RA,dec): 160.10, -13.48
Swift Location(lon,lat,alt): -105.42 E, -13.54 N, 578 km
Obs Sequence Number: 00042118002
Obs Target Name: swift_gal_survey_95
Obs Date and Times: 2011-09-18 17:48:53 - 17:56:49
Obs Pointing(ra,dec,roll): 194.634, -62.874, 342.84
92.650_42.100_imageloc (boresight_dist, angle): (132, -150)
92.650_42.100_exposure (cm^2 cos adjusted): 0
92.650_42.100_altitude: 30 (up)
```

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

/tmp/110918_1753_bat64ms_ipn	Content-Type: application/octet-stream
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Content-Encoding: base64

/tmp/110918_1753.png

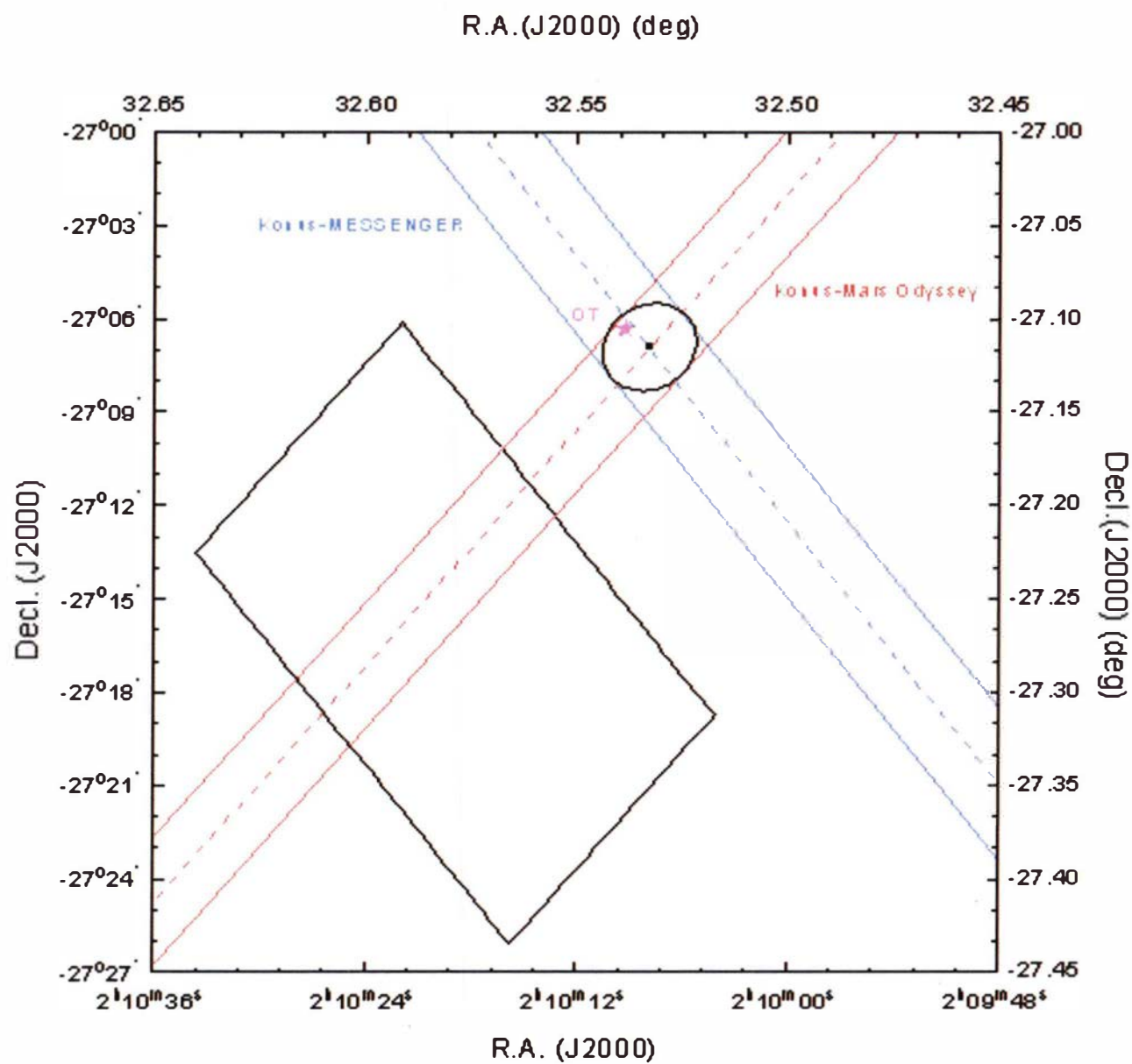
/tmp/110918_1753.png	Content-Type: image/png
	Content-Encoding: base64

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: Re: [Ipn] GRB110918A error box
From: "Valentin Pal'shin" <val@mail.ioffe.ru>
Date: 7/24/2012 8:02 AM
To: Kevin Hurley <khurley@ssl.berkeley.edu>

Dear Kevin,

I think that in my final triangulation of this burst, I got 13.1 degrees.

Attached is an IPN map which displays your and my distant s/c annuli along with the error ellipse.

Here are the parameters of the plotted annuli:

KW-MO (your)

RA	Dec	R	ErrR	dT	ErrdT
301.787381	-21.201952	81.138995	0.007944	145.227	0.106272

KW-MO (my)

301.787	-21.202	81.139	0.005	145.229	0.0800
---------	---------	--------	-------	---------	--------

KW-MESS (your)

RA	Dec	R	ErrR	dT	ErrdT
348.414896	-6.981643	46.385619	0.014451	442.961	0.100992

KW-MESS (my)

348.415	-6.982	46.397	0.008	442.8730	0.0640
---------	--------	--------	-------	----------	--------

My annuli do not account for uncertainties in the s/c positions.

In yours they contribute 0.0014 deg in the KW-MO annulus and 0.0020 deg in the KW-MESS annulus. The centers of our annuli are in a perfect agreement (i.e. the used coordinates are exactly the same).

1) There is a significant discrepancy between the radii of our KW-MESS annuli due to a significant difference in the measured time delays.

Here are the times of my triangulation:

T0(KW)=77222.856 s UT (21:27:02.856)

T0(MESS)=77666.249 s UT (21:34:26.249)

dT(c-c) = 0.5200 ± 0.0640 sec

dT = T0(MESS) - (T0(KW)+dTcc) = 442.8730 ± 0.0640 sec

For c-c I used the 16 ms KW lc in the G2 band and chose the part of MESS lc from 11 to 22 s (shown in the attached figure; this part should not be strongly affected by very high count rate as the first pulse). The c-c is good with $\chi^2_{\min}=11.7/10\text{dof}$ - see the attached figure. I also used the part of MESS lc from 1 to 6 s (just after the main peak) and got a similar c-c lag, but with much worse $\chi^2_{\min}$ of 13.3/4dof (also shown in the figure).

So, I believe my c-c is quite reliable.

Hence, if we do not add any systematic and add 0.0020 deg to the radius error to take in account uncertainty in the MESSENGER position, a KW-MESSENGER will be (my+0.0020 deg):

RA	Dec	R	ErrR	dT	ErrdT
348.415	-6.982	46.397	0.010	442.8730	0.0640

Both my original annulus and this enhanced annulus are in better agreement with the OT position than yours.

2) Our KW-MO annuli are in much better agreement.

My c-c is also good with $\chi^2_{\min}=32.3/33\text{ dof}$.

The OT position is outside my KW-MO annulus (even if I add 0.0014 deg to the width to take in account error in the s/c position, it will be outside) and at the edge of your annulus.

Your study of triangulation uncertainties has shown that we do need to assume systematic uncertainties for distant s/c triangulation (and it is seen in your results that the HEND has a larger problem with timing than MESSENGER). So, I'd suggest to add some systematic at least in KW-MO triangulation. Using your previously assumed approach that 3 sigma cross-correlation uncertainty should be at least 0.125 s, I derived a following KW-MO annulus (0.0014 deg error due to positional uncertainty is added):

RA	Dec	R	ErrR	dT	ErrdT
301.787	-21.202	81.139	0.0091	145.245	0.125

The OT position is inside the annulus (but still close to the boundary, so probably larger systematic is needed, for example 100 ms; in our initial triangulation I assumed 1 s of systematics).

I also think there is no need for error ellipse in this case, since effectively we just have two distant s/c annuli (the KW-INT annulus is much wider) - an error box would be enough. The attached GRB110918A_IPN_v4.png displays my KW-MESS annulus with added 0.0020 deg due to s/c positional uncertainty and the KW-MO annulus given above (I'd further increase systematic in it).

Valentin

Kevin

From val@mail.ioffe.ru Fri Jul 20 07:44:41 2012
X-Barracuda-Envelope-From: val@mail.ioffe.ru
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.145
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 194.85.224.36
X-Barracuda-RBL-IP: 194.85.224.36
Date: Fri, 20 Jul 2012 18:42:16 +0400
From: "Valentin Pal'shin" <val@mail.ioffe.ru>
To: Kevin Hurley <khurley@ssl.berkeley.edu>
Subject: Re: [Ipn] GRB110918A error box
X-MIME-Autoconverted: from 8bit to quoted-printable by relay.ioffe.ru id q6KEiWGT012179
X-Ucb-Scan-Signature: 4c5672f880d4b920c7b1ec9c2bd8f07950c900d8
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='DKIM_SIGNED, 0.1,
T_RP_MATCHES_RCVD -0.01'
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 id q6KEifX04041

Dear Kevin,

Thank you for the data. Could you, please, send me the positional angle=20 of the error ellipse given in ipn.pdf you sent Dmitry.
I'd like to add it to my plot and then discuss with you some=20 discrepancies between our triangulations.

Valentin

Dear Valentin,

Here are the files. I am having some trouble retracing all the triangulations that I did, but I believe you have the final one here. If it looks funny, let me know and I will try again.

Kevin

17.07.2012 21:46, Kevin Hurley =ED=E0=EF=E8=F1=E0=EB:

--=20

Valentin Pal'shin

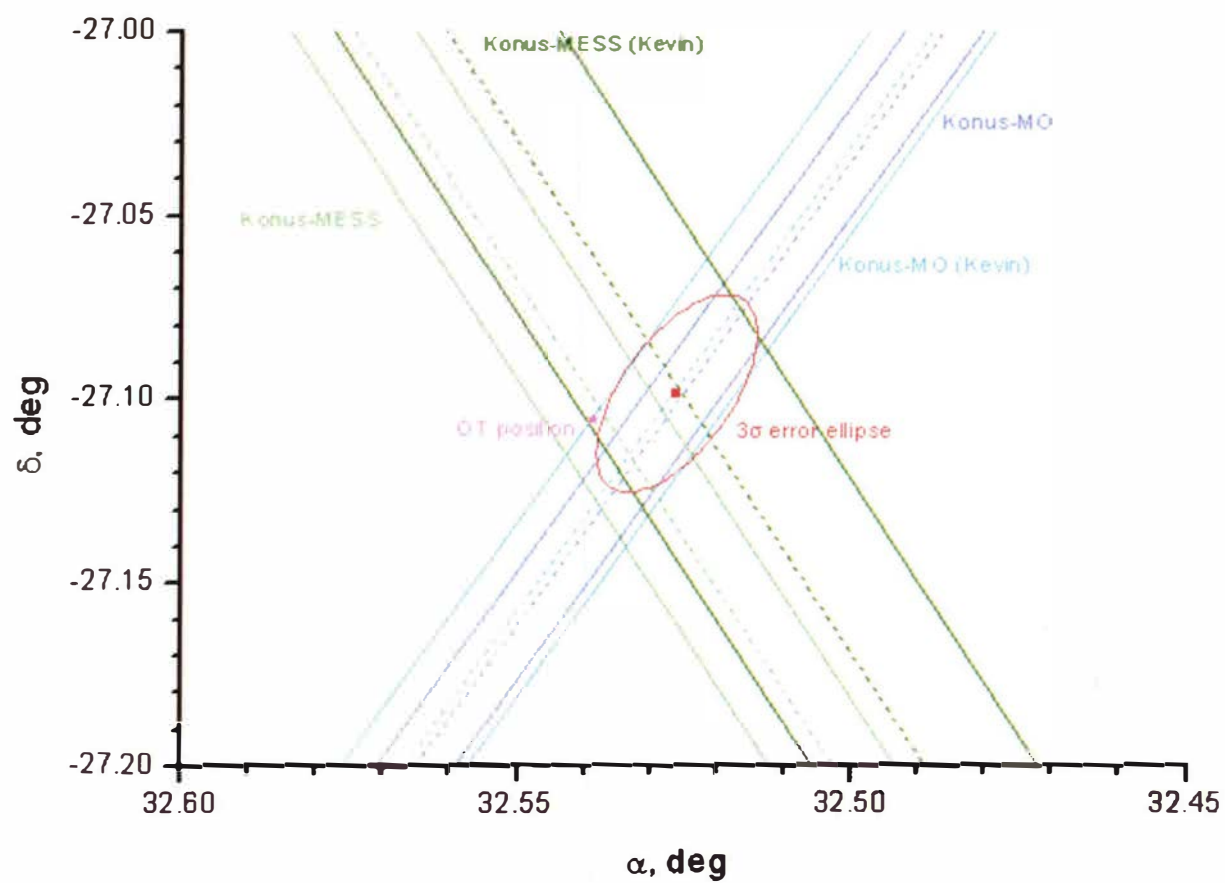
Laboratory for Experimental Astrophysics
Ioffe Physical Technical Institute
Russian Academy of Sciences
26 Polytekhnicheskaya, St Petersburg 194021,
Russian Federation

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

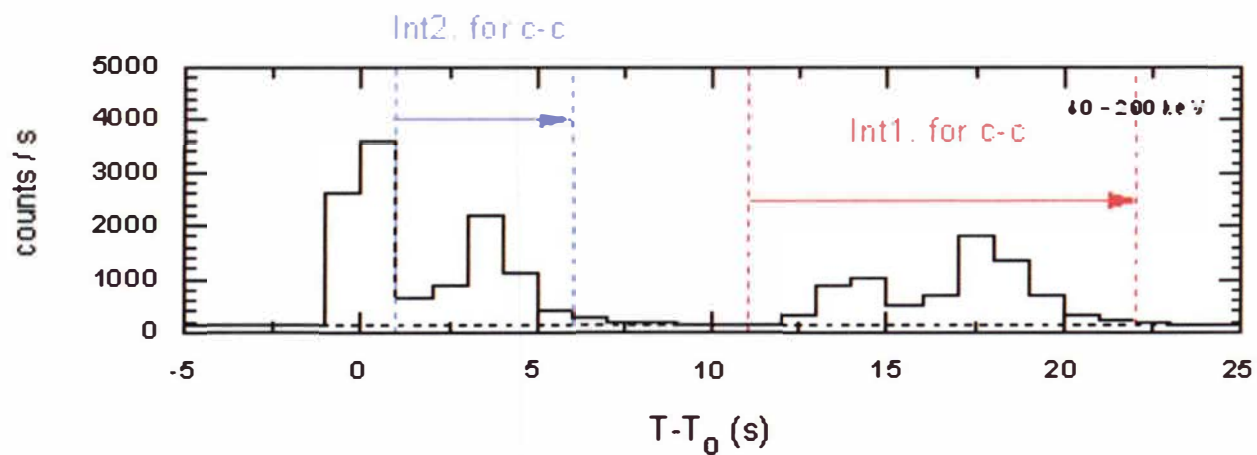
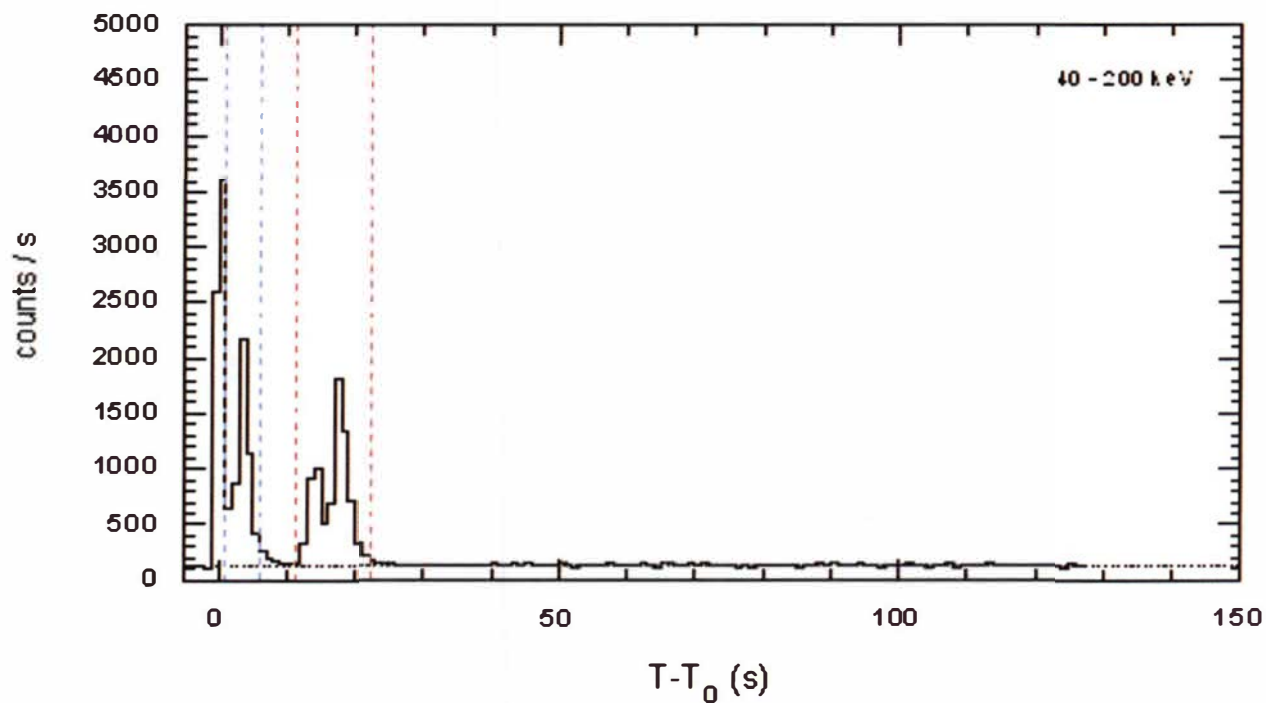
--
Valentin Pal'shin

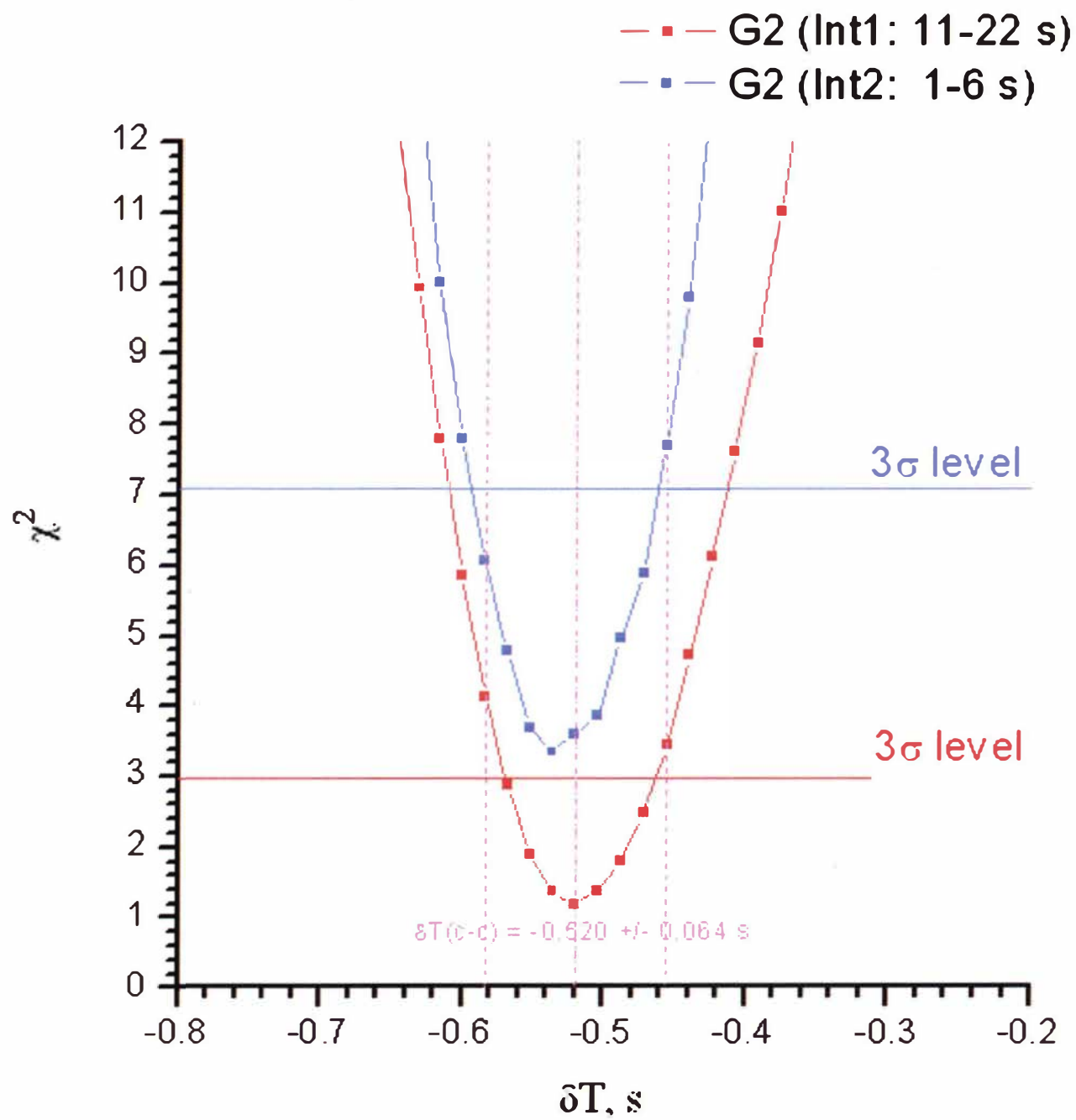
Laboratory for Experimental Astrophysics

GRB 110918A

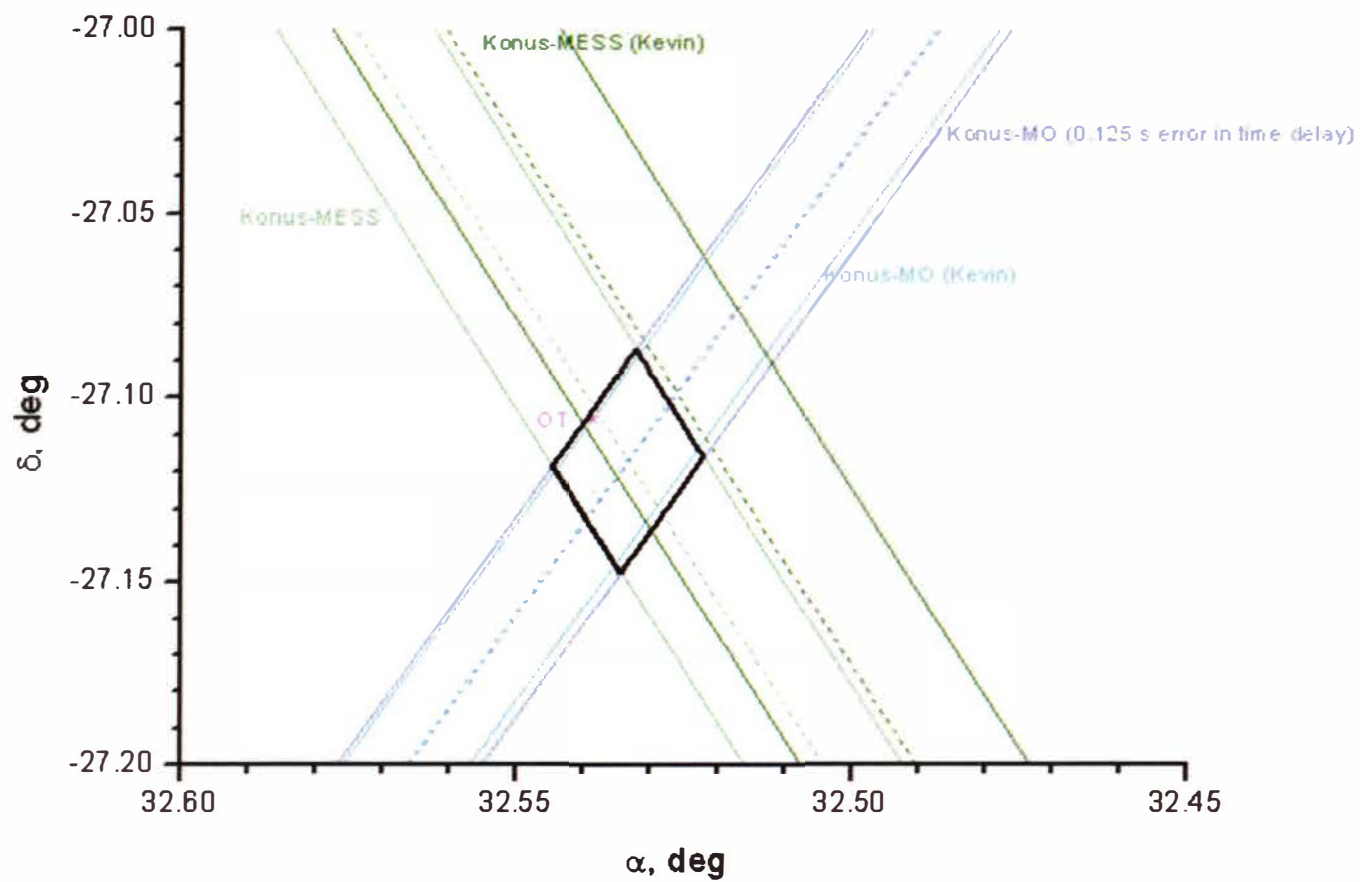


MESSENGER GRB 110918A
 $T_0 = 77666.249$ s UT (21:34:26.249)





GRB 110918A



Date: Mar 26 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?

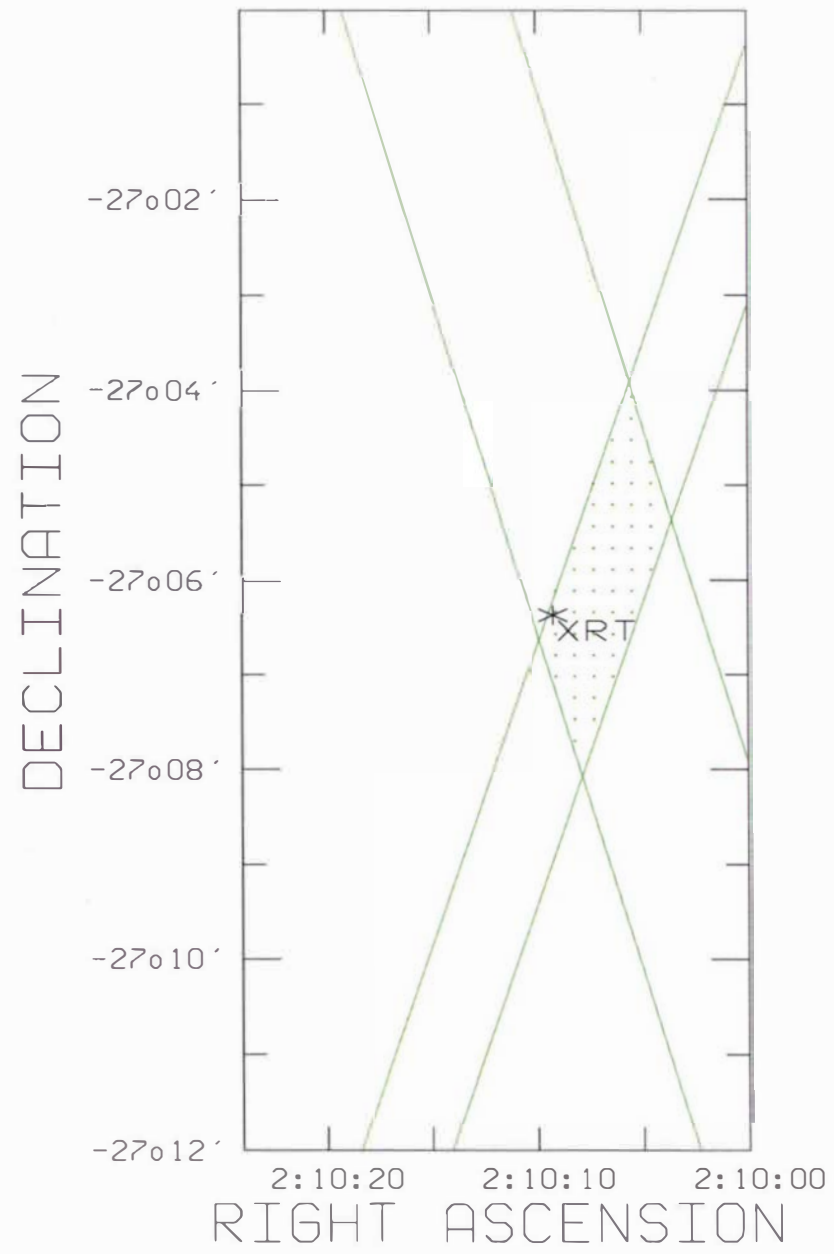
6. For 3 or More Spacecraft events

- ☒ $\Sigma 3\Delta t$'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?

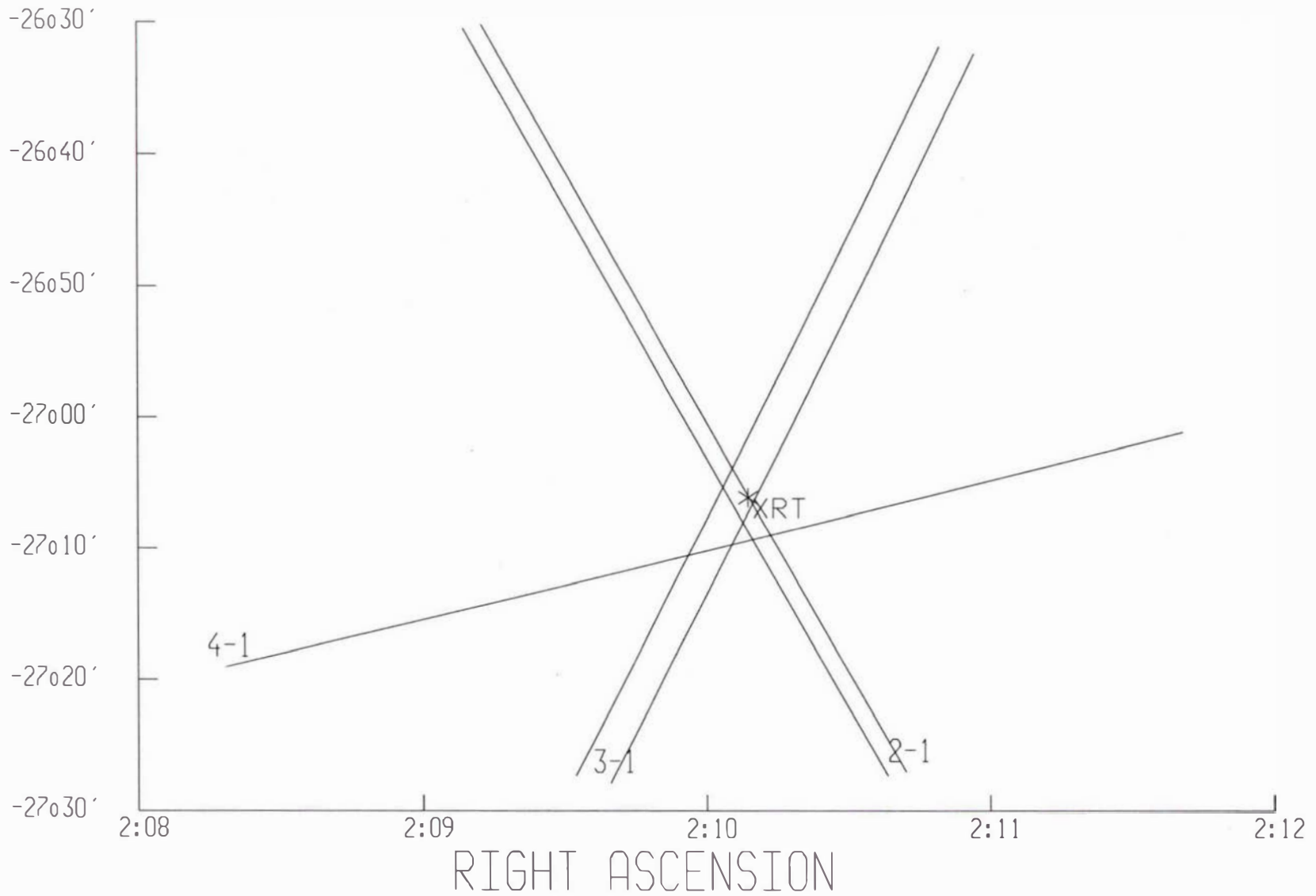


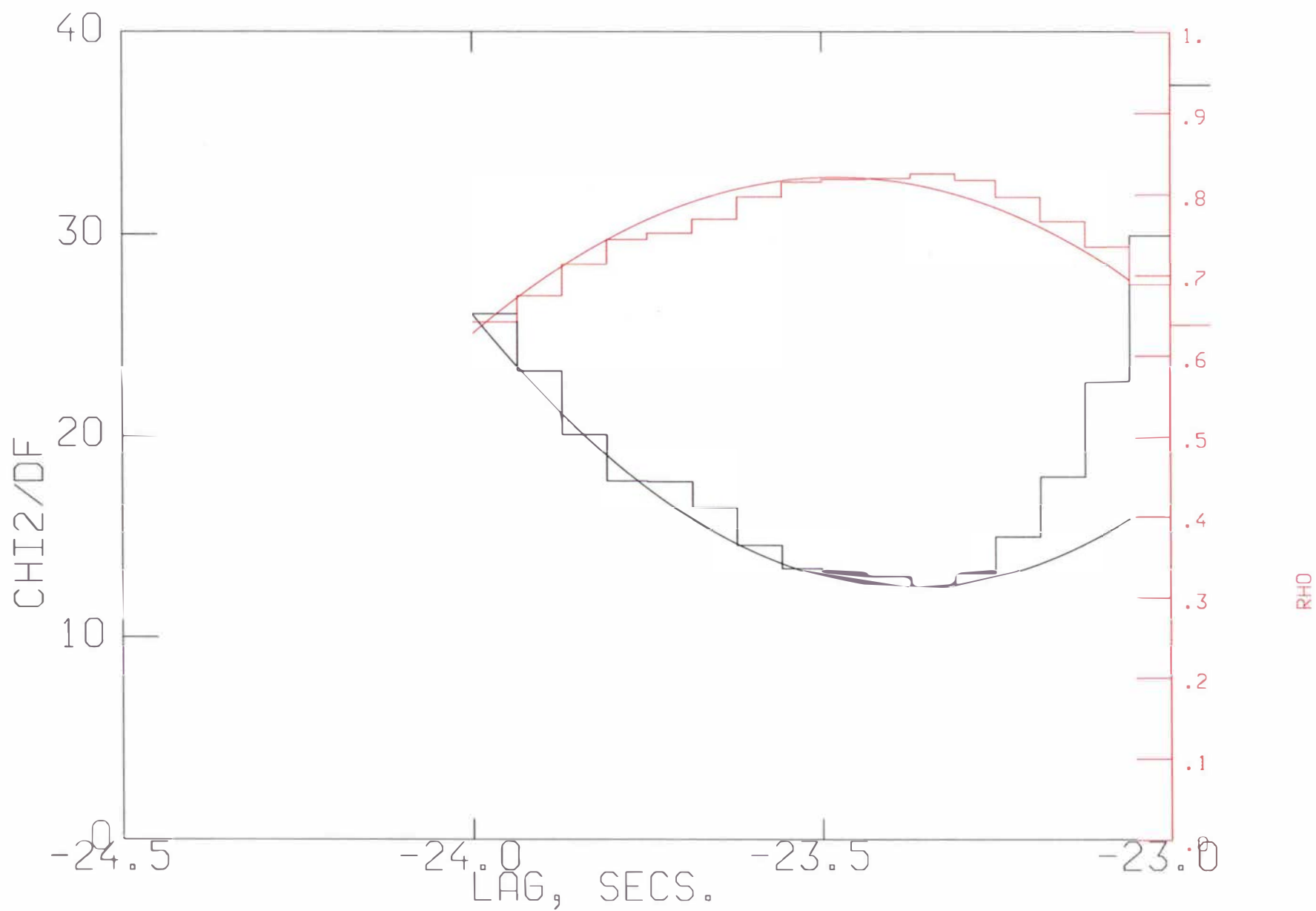
EVENT OF SEP 18, 2011 21:27

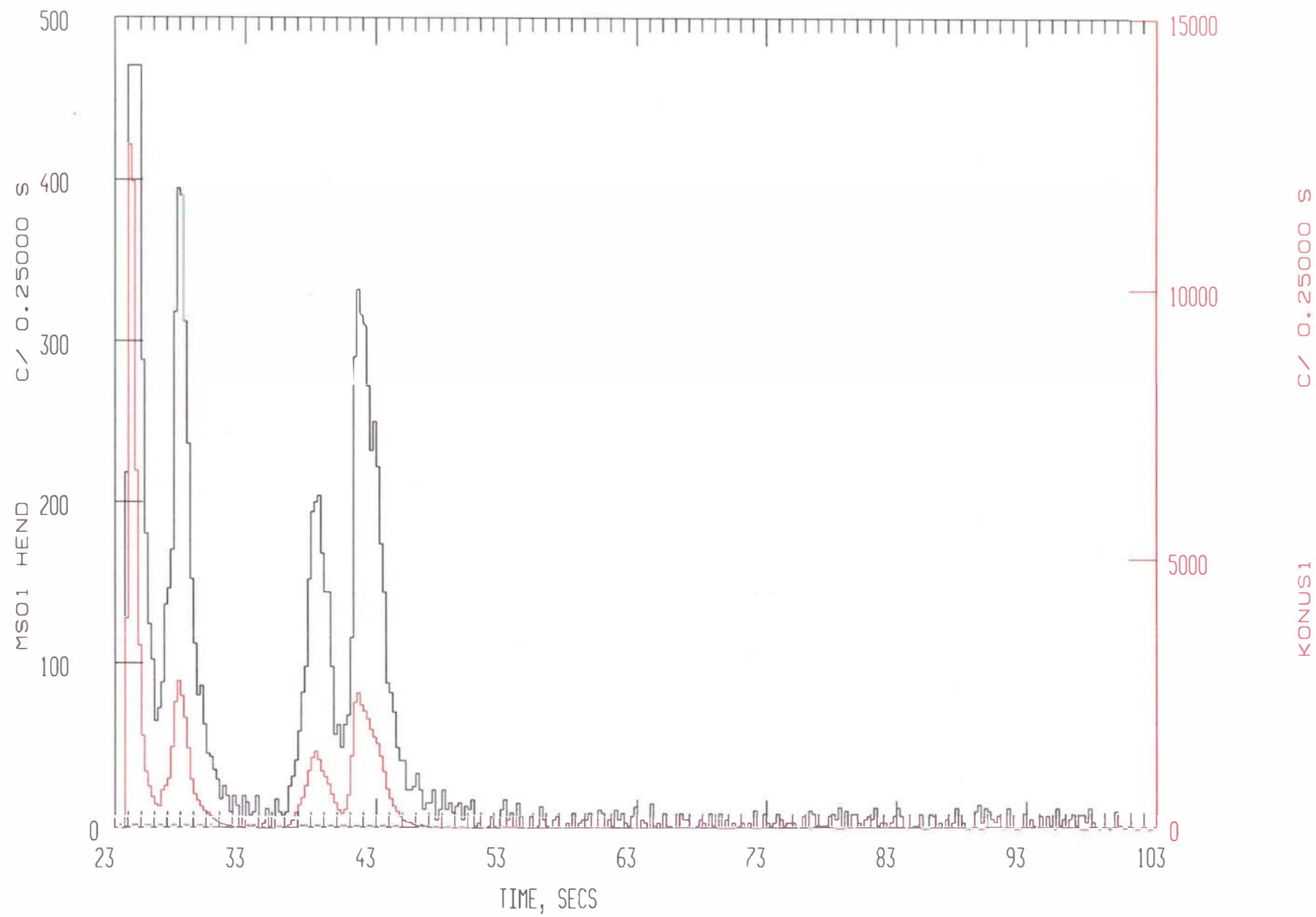
26/03/2013

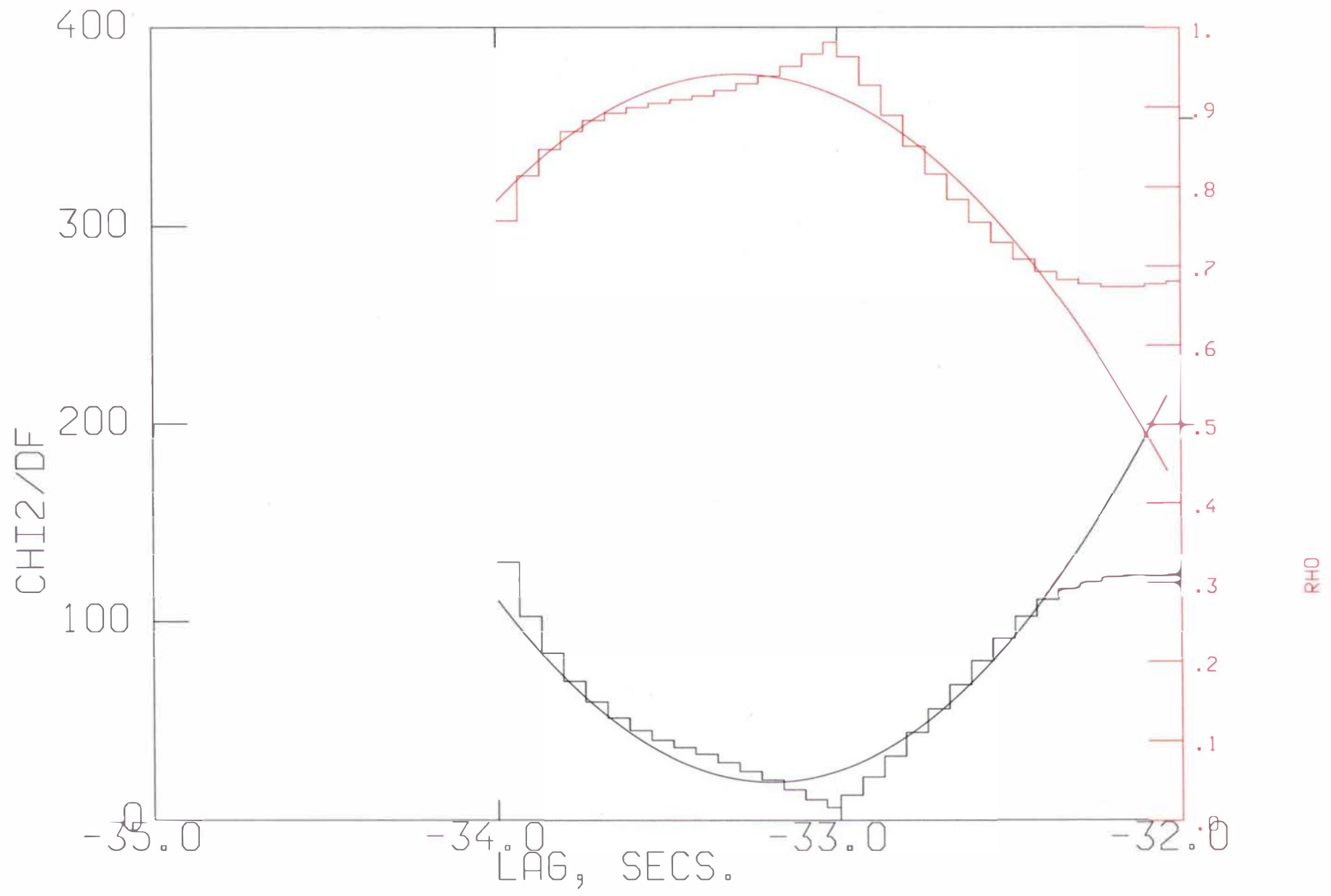
N-N = CORRELATION BETWEEN SATELLITES N AND N
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 KONUS1 2 MO 3 MESSENGER 4 INTEGRAL

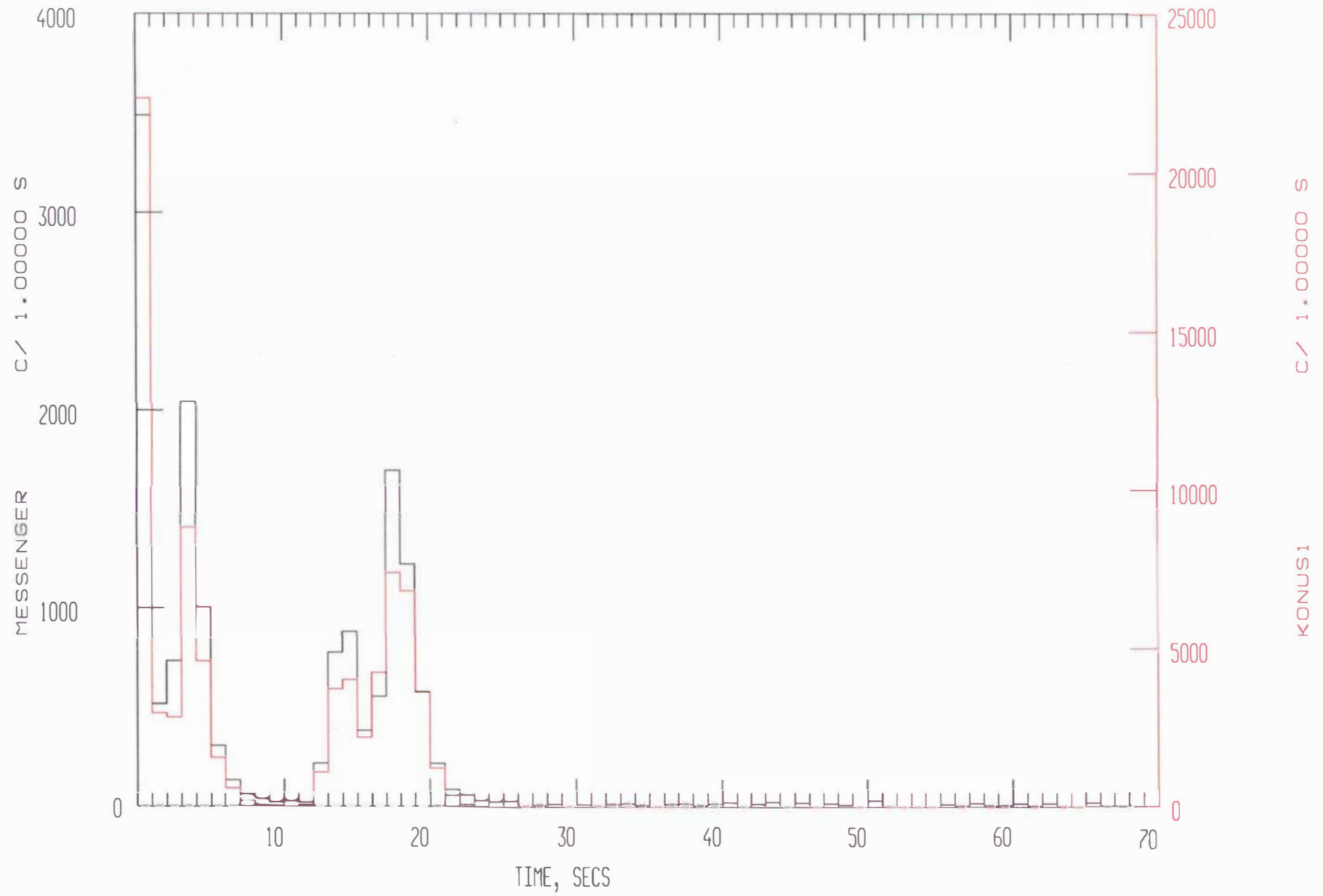
DECLINATION

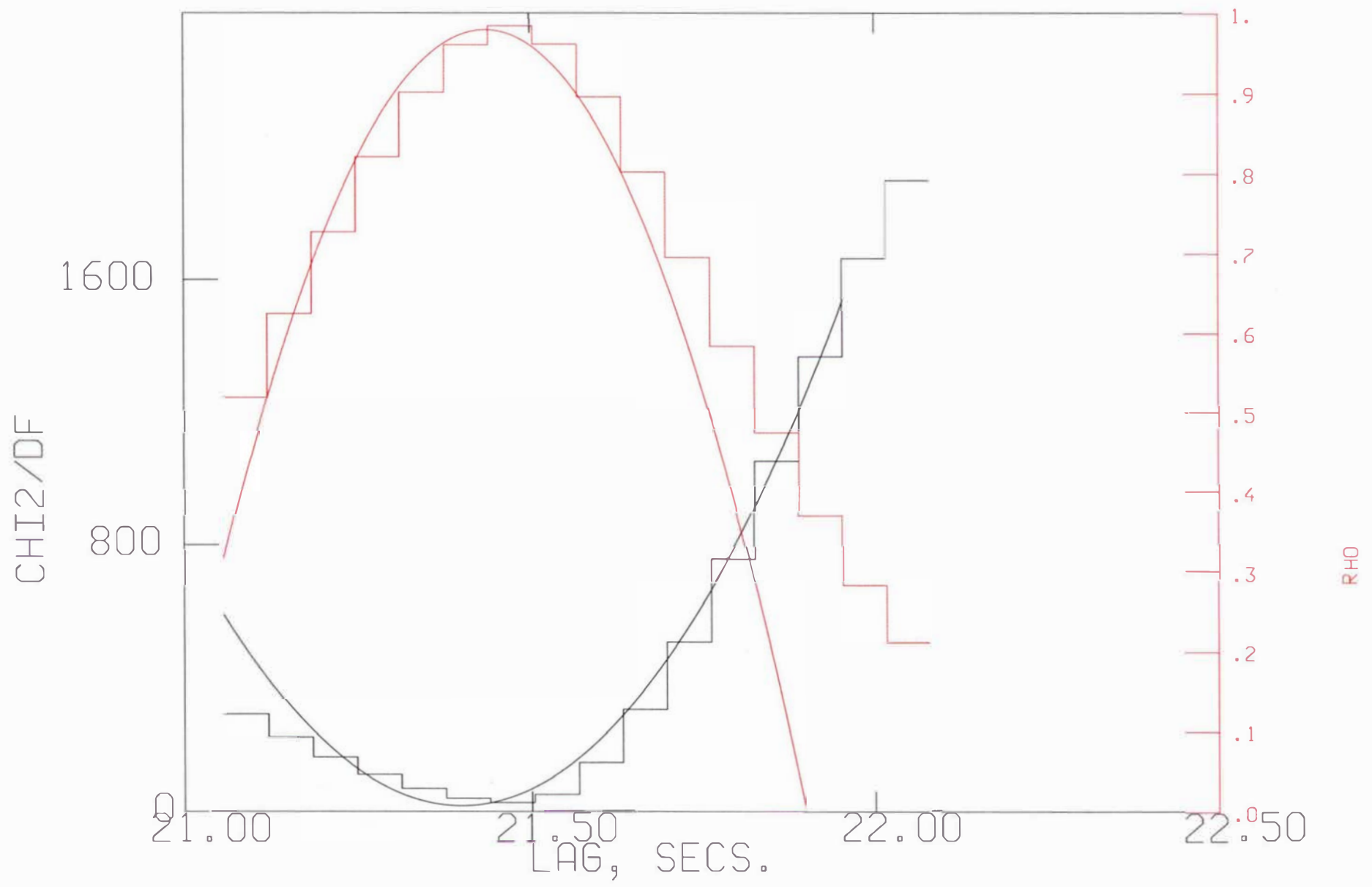


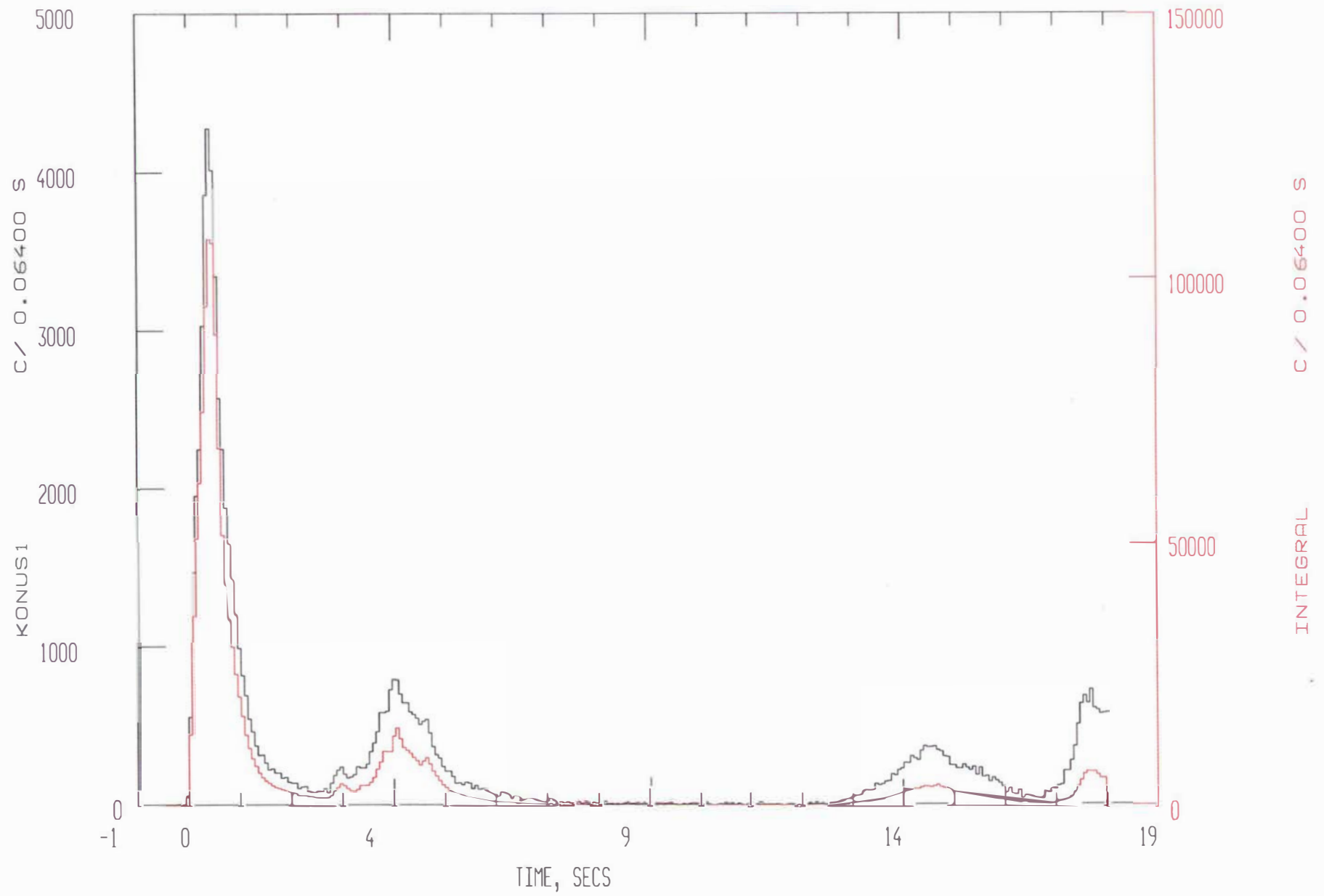












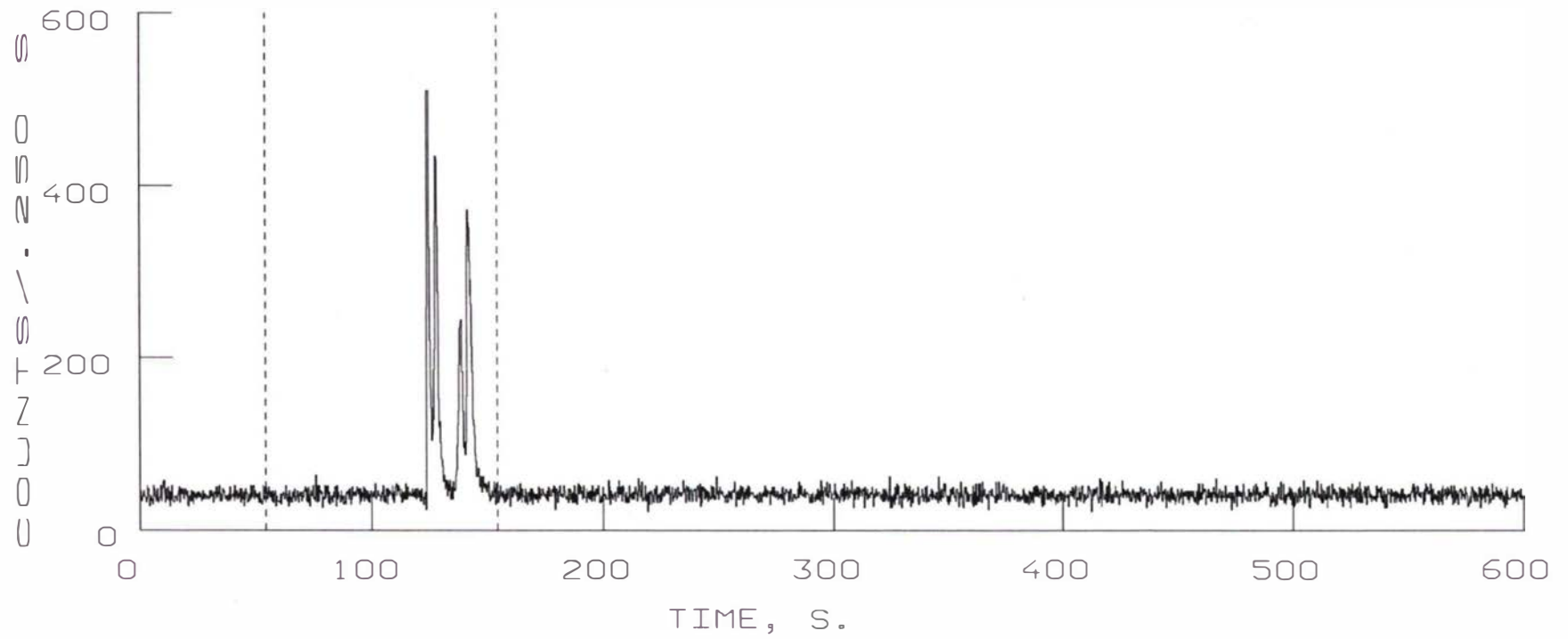
MS01 HEND

26/03/2013

18/09/2011 77244.195 s

50-3000 keV

N= 10 M=80
>4.0 SIGMA FLUCTUATIONS



08/08/11

Line 42

MESSENGER

18/09/11

DOY 261

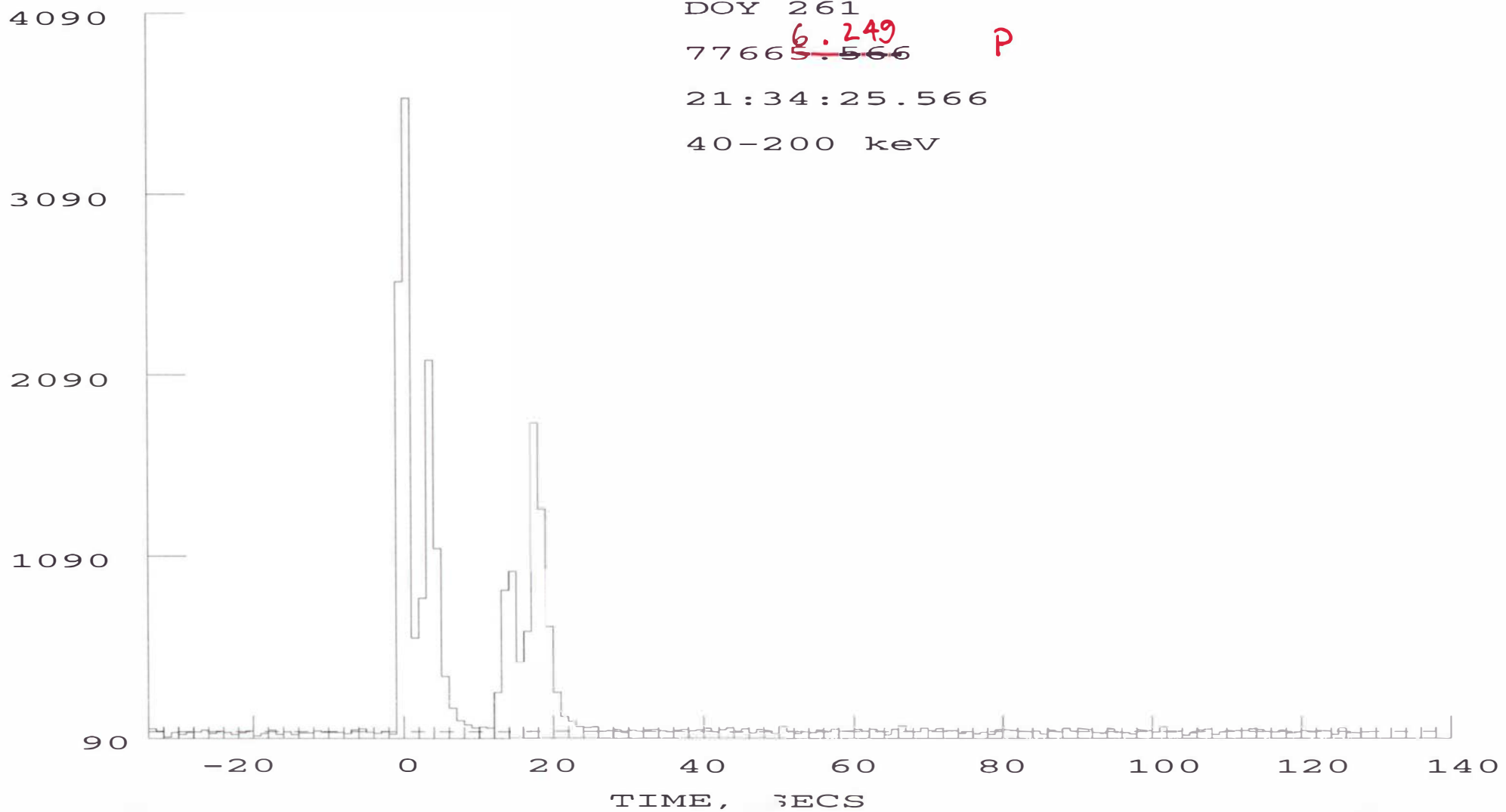
77665.566

6.249

P

21:34:25.566

40-200 keV



KONUS1

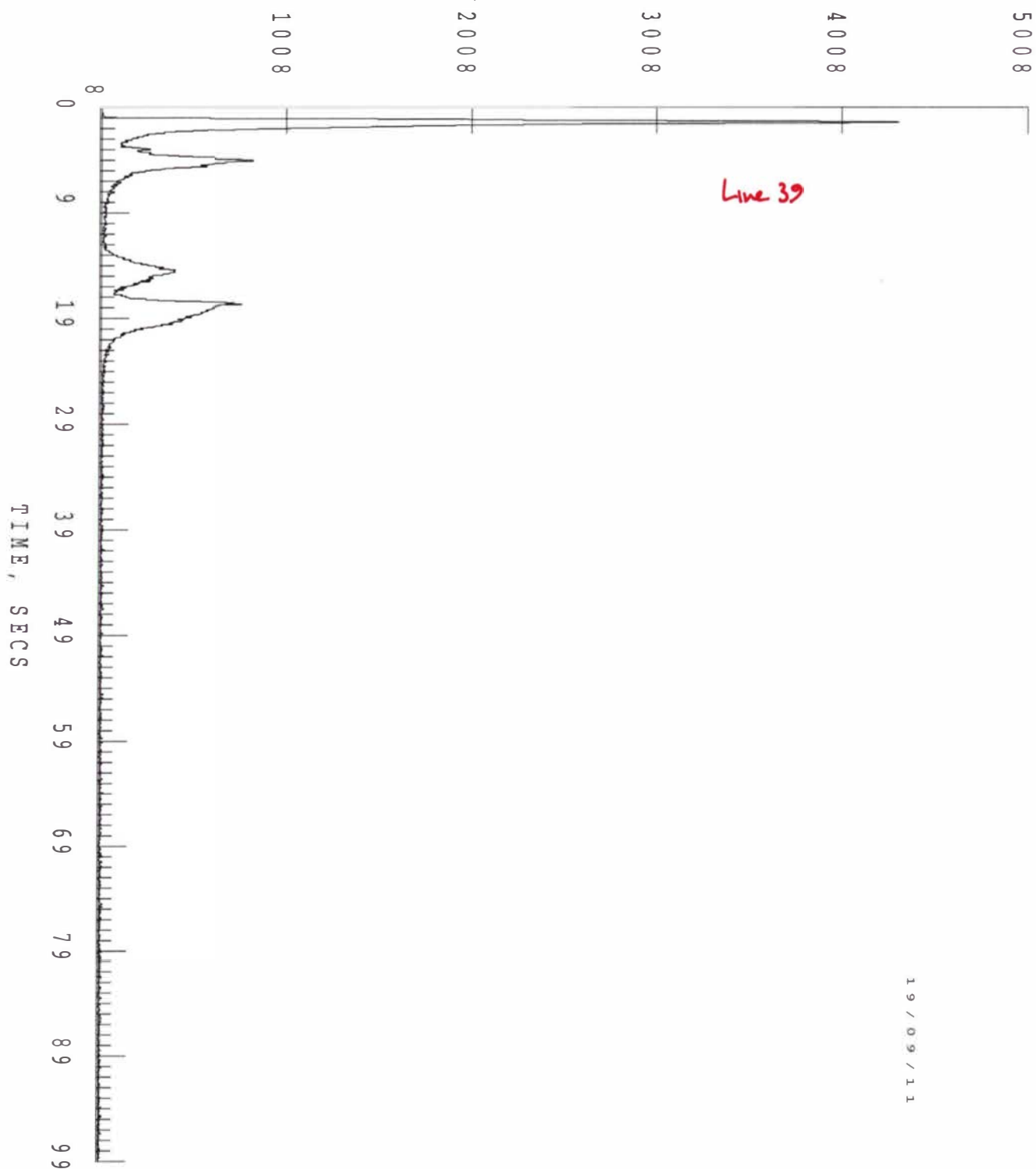
18/09/11

77222.856

21:27:02

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110918 77222

TRIGGER TIME: 18/09/11 DOY 261 Julian 2455824.39377 UT = 21.451 21:27:02 (77222.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

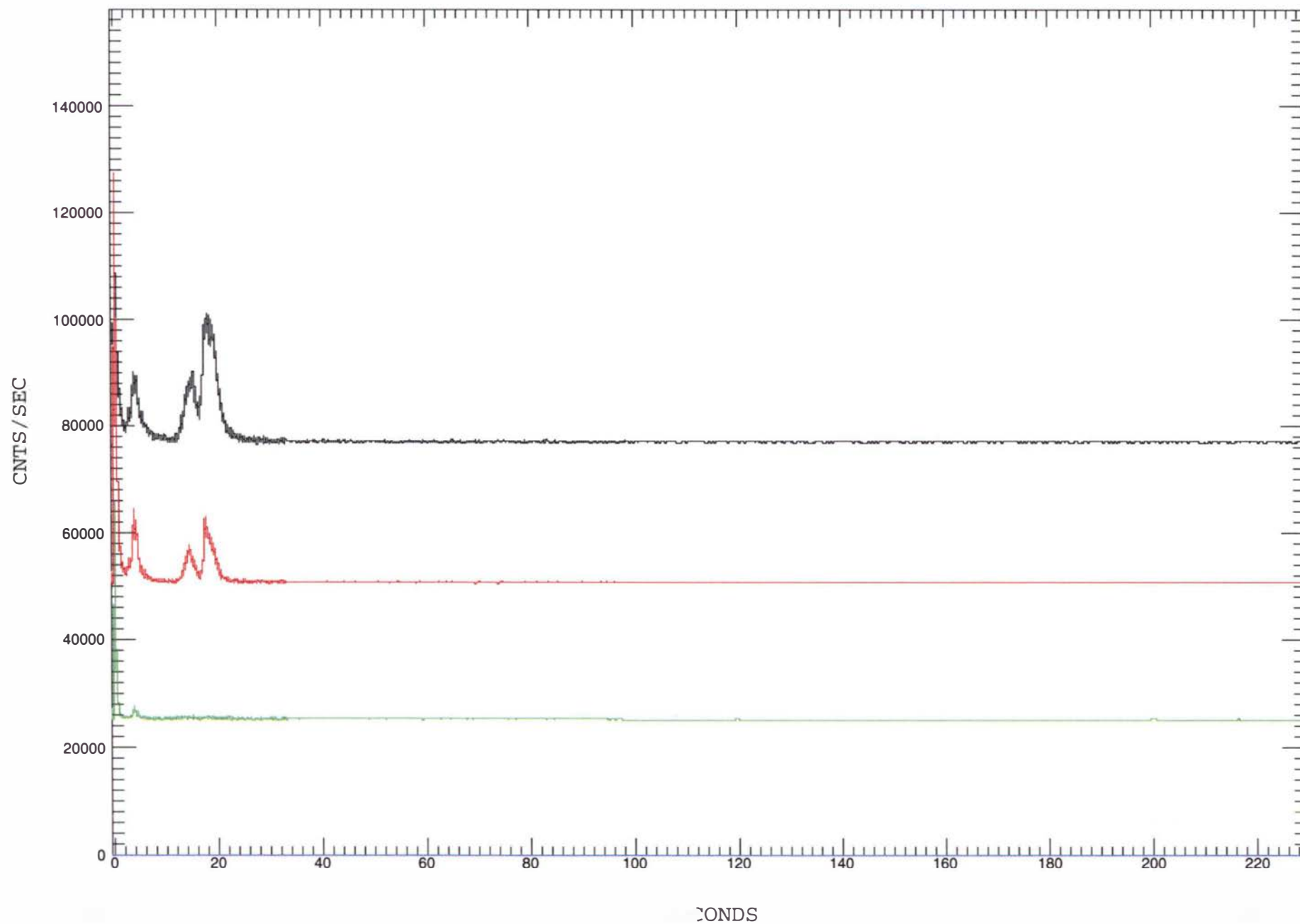
Chan 4 : [> 10 MeV]

Channel 1 + 76200

Channel 2 + 50800

Channel 3 + 25400

Channel 4 + 0



INTEGRAL

18/09/11

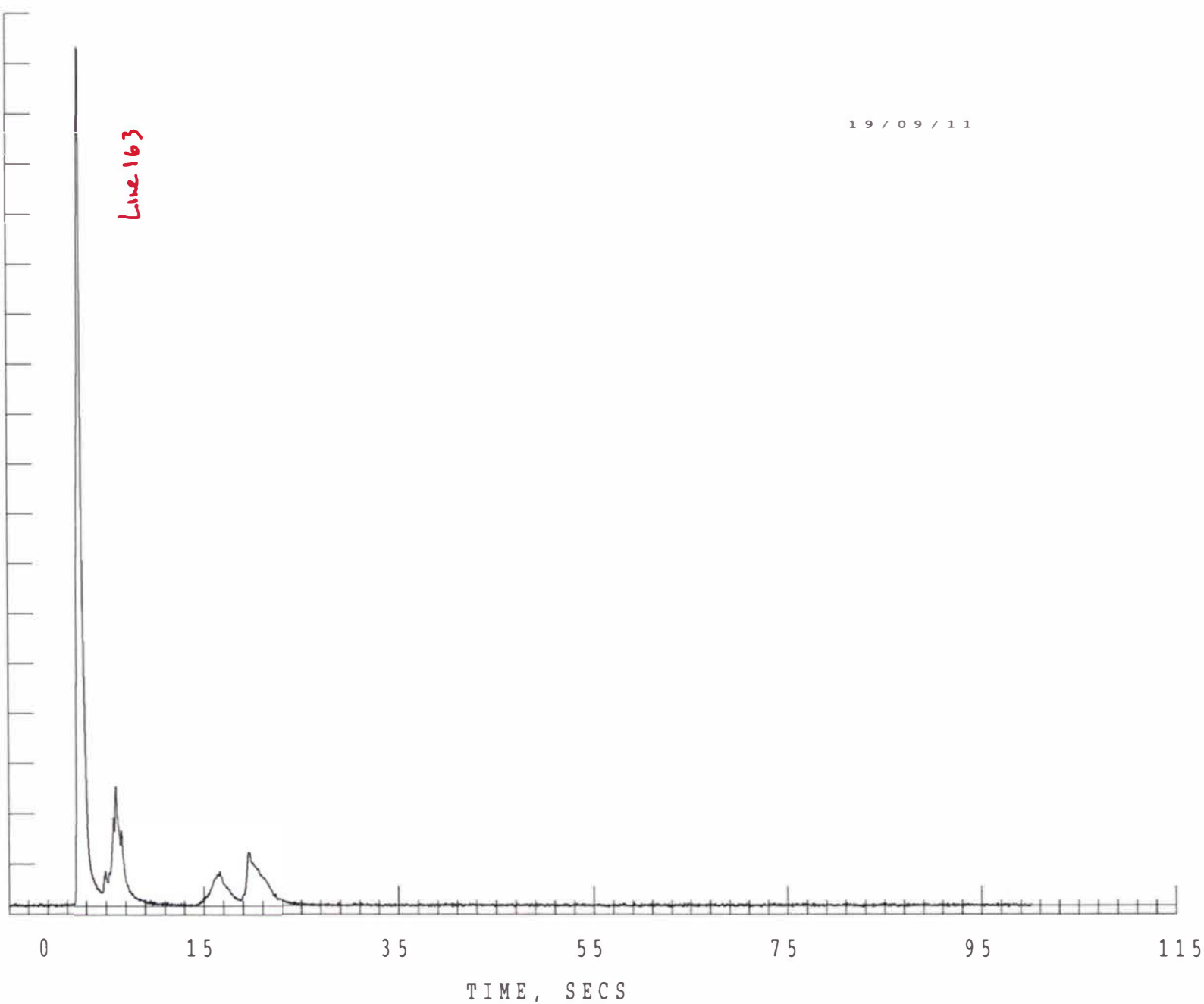
77217.003

100-10000 keV

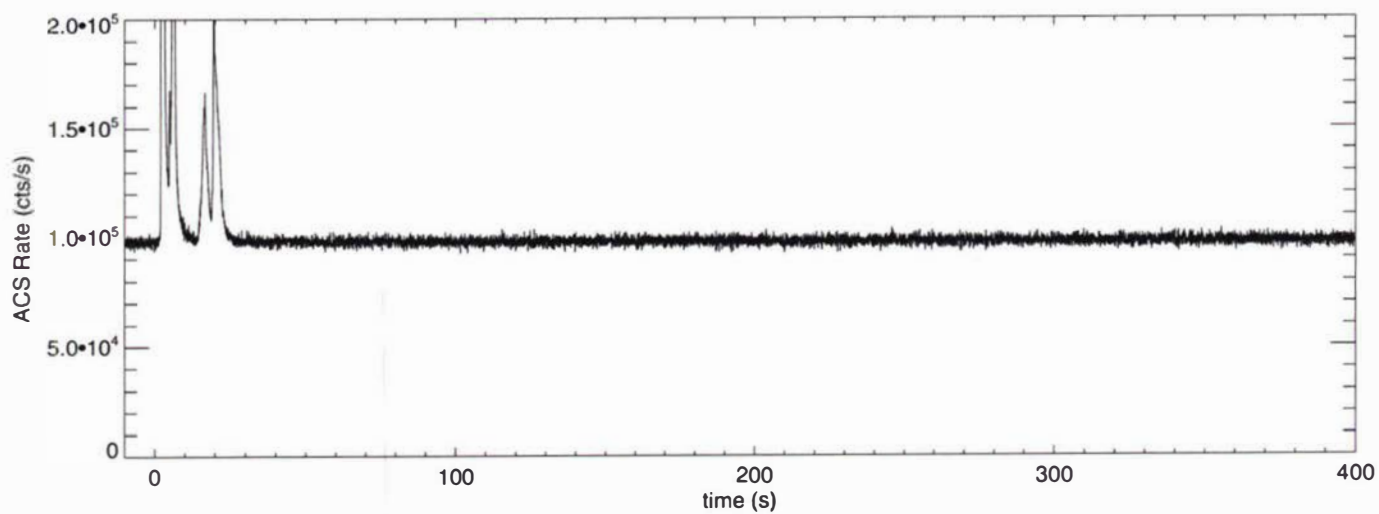
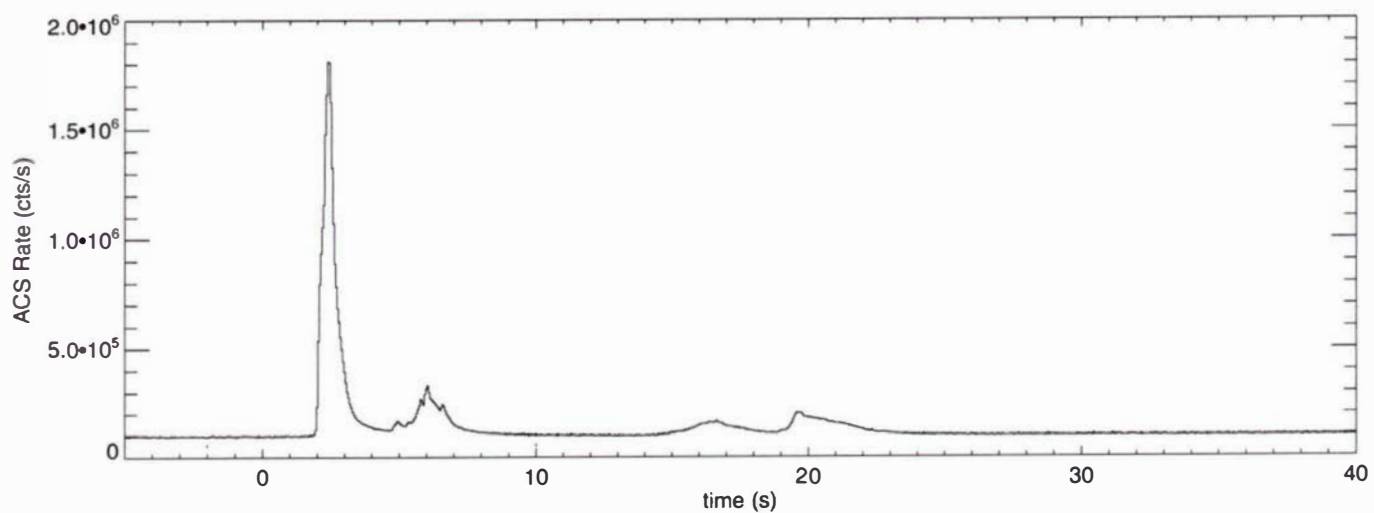
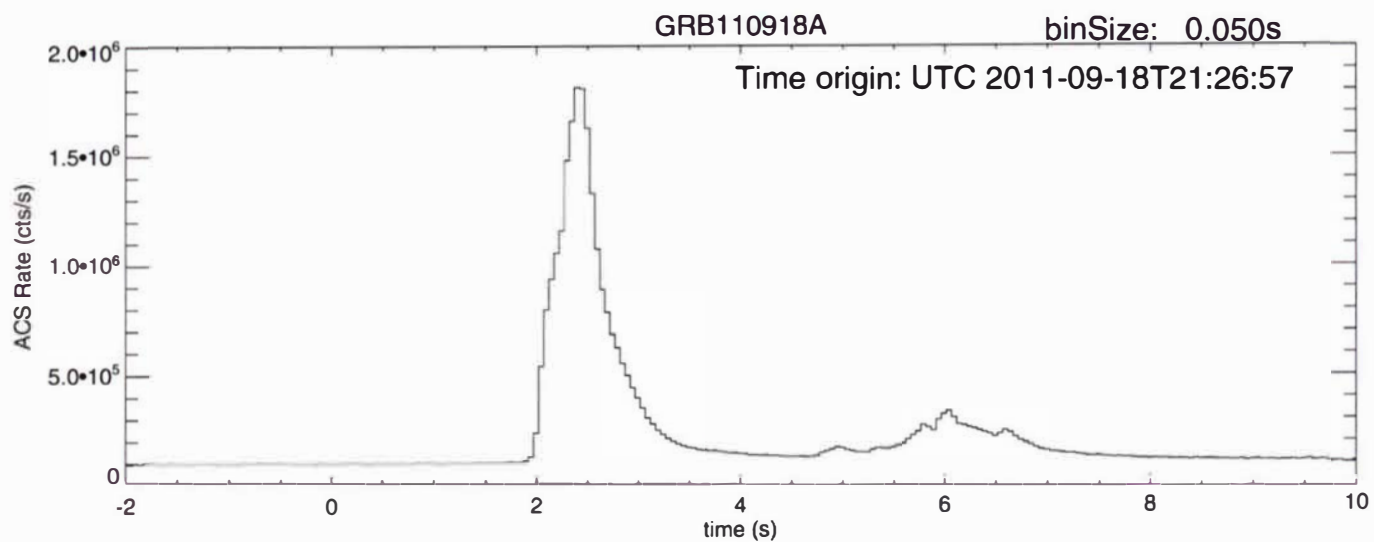
21:26:57

COUNTS/0.050 S

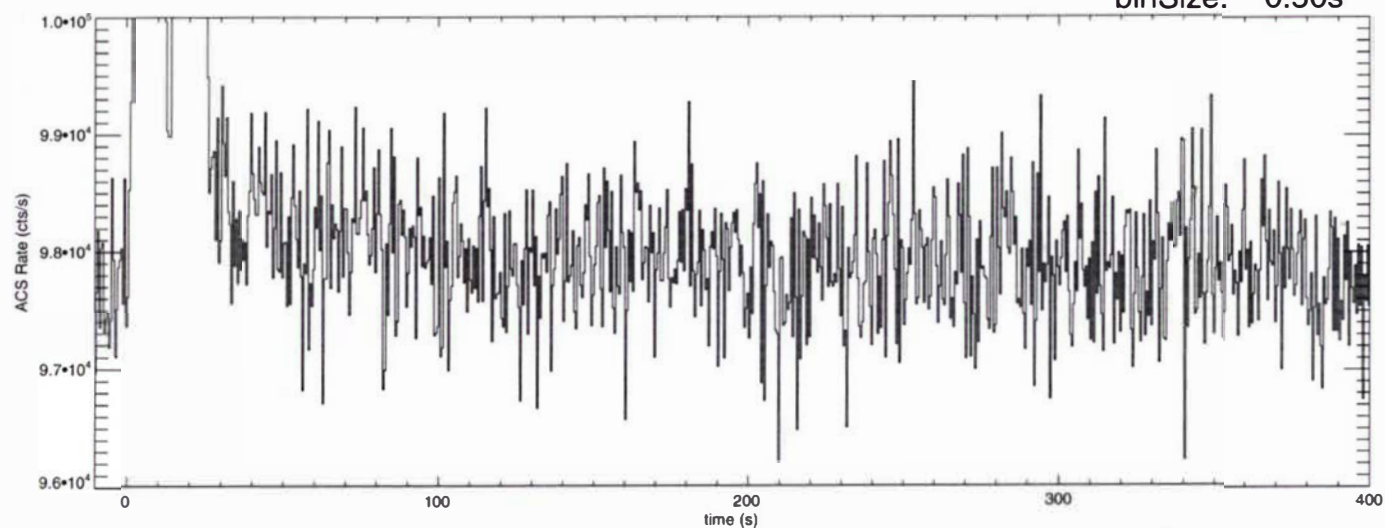
94000
89000
84000
79000
74000
69000
64000
59000
54000
49000
44000
39000
34000
29000
24000
19000
14000
9000
4000



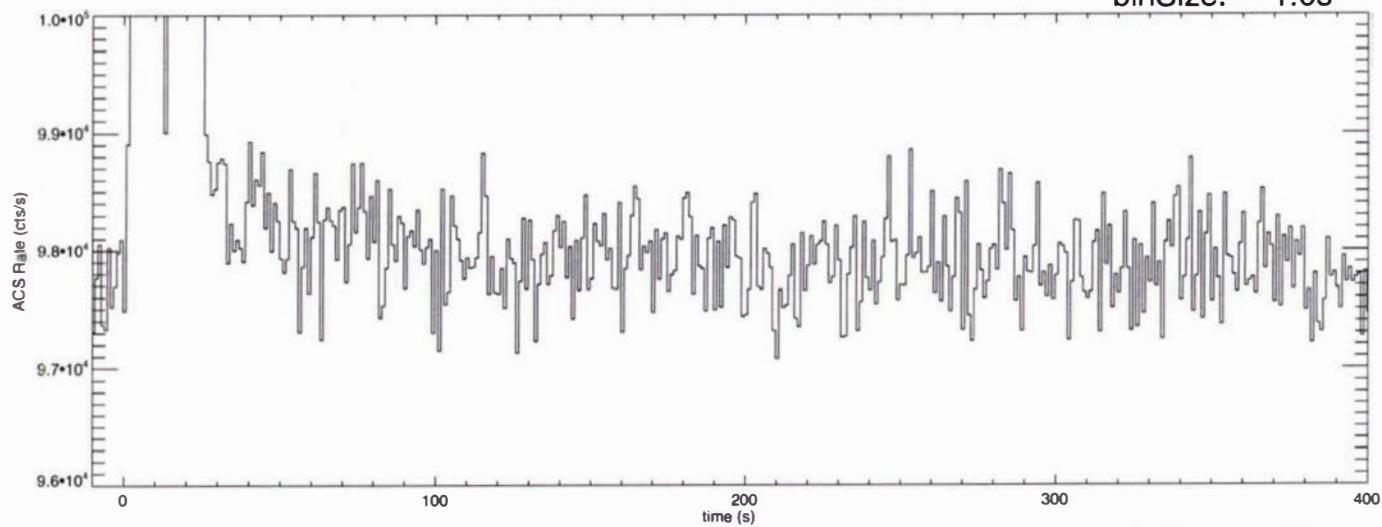
19/09/11



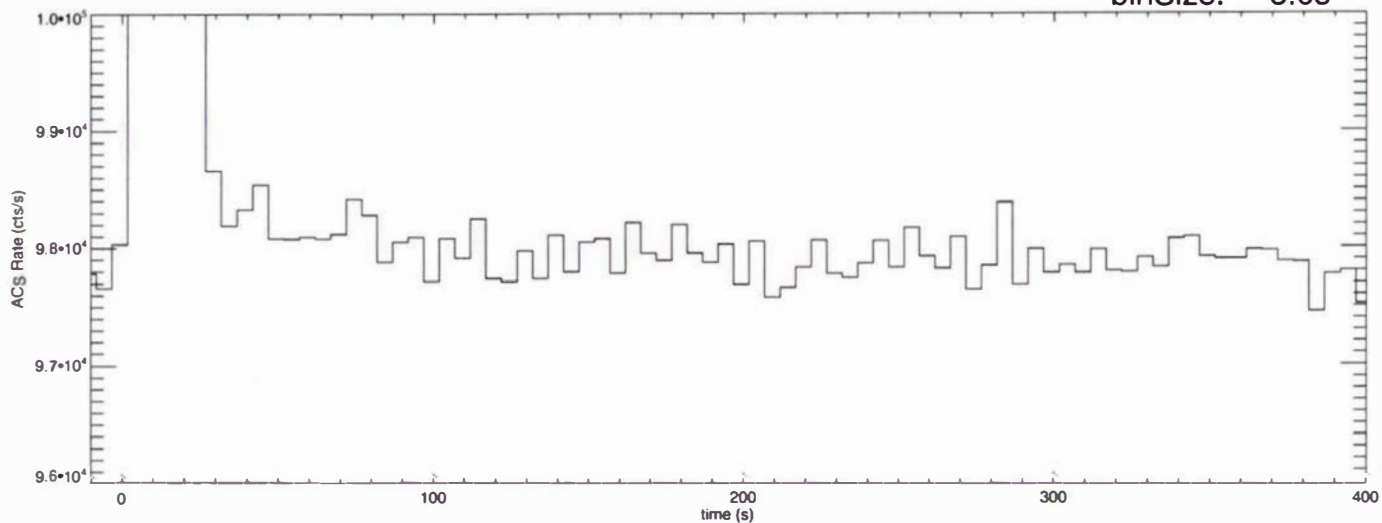
binSize: 0.50s



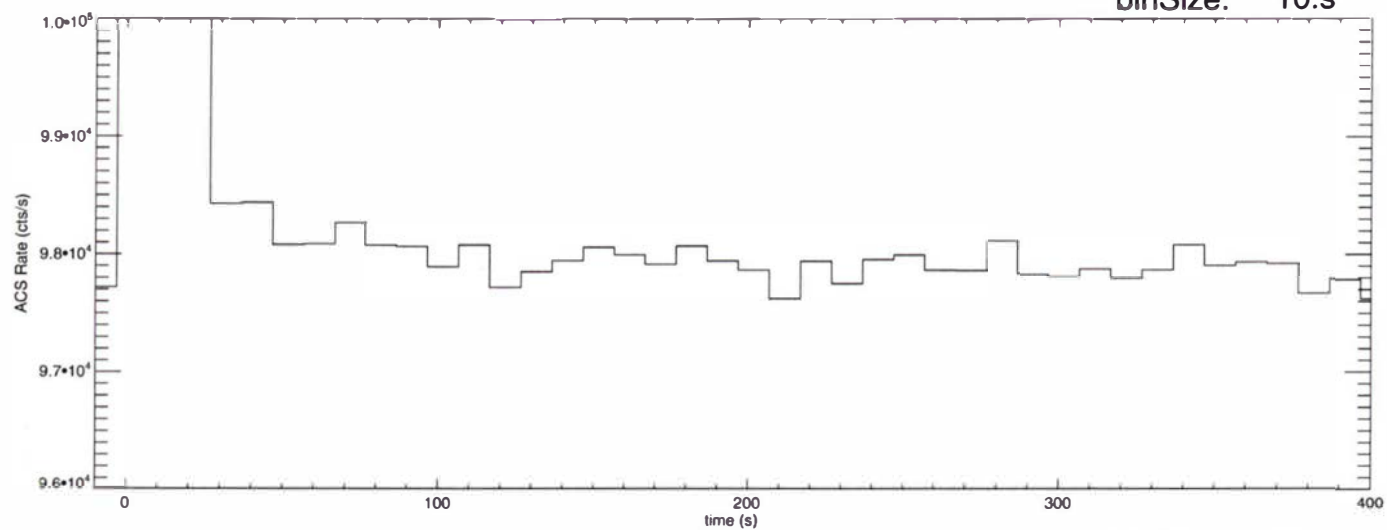
binSize: 1.0s



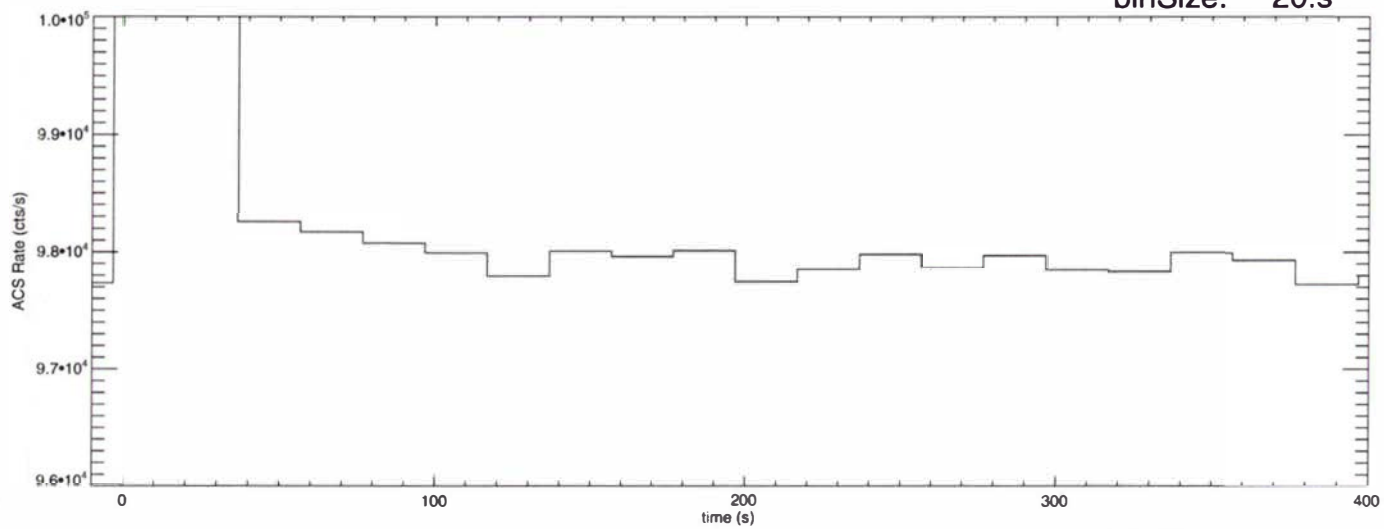
binSize: 5.0s



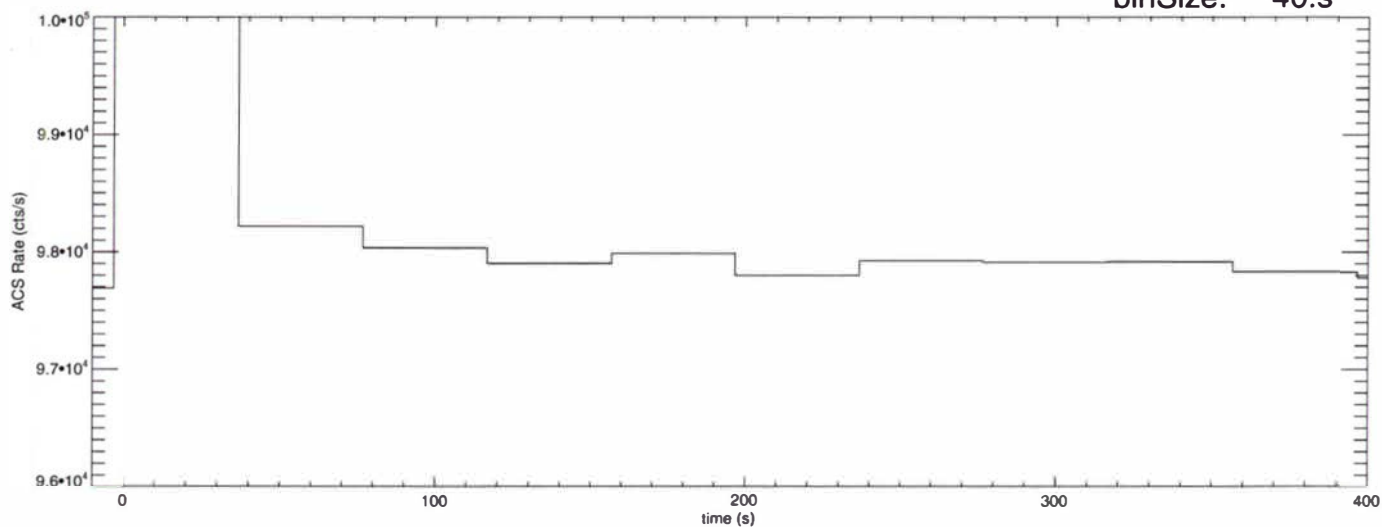
binSize: 10.s



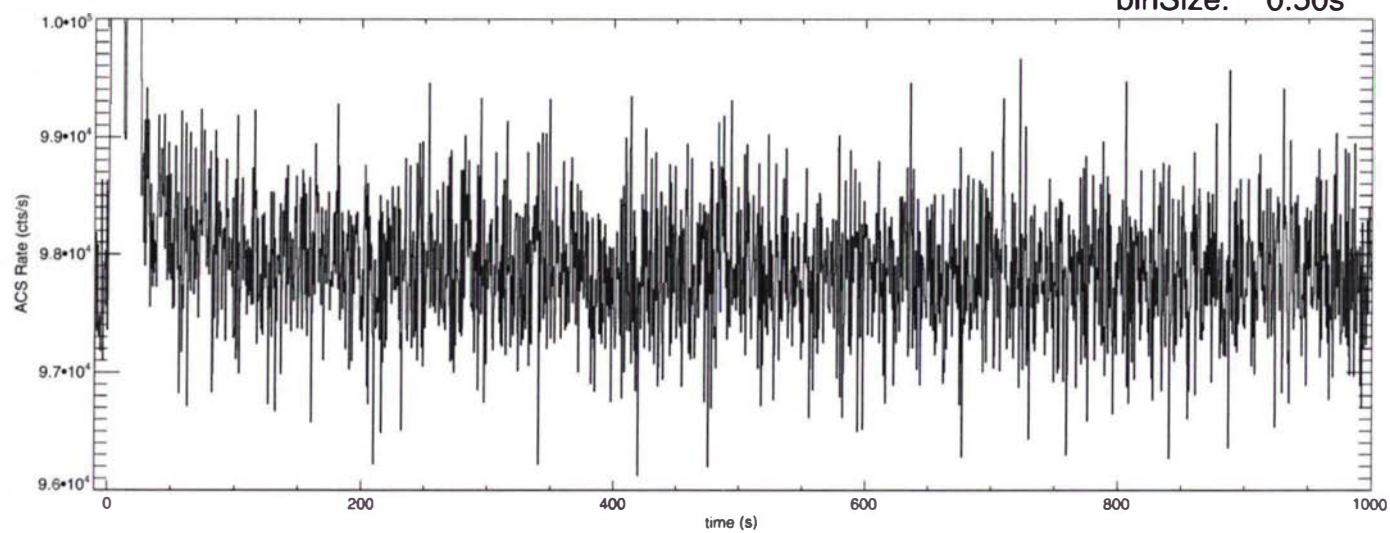
binSize: 20.s



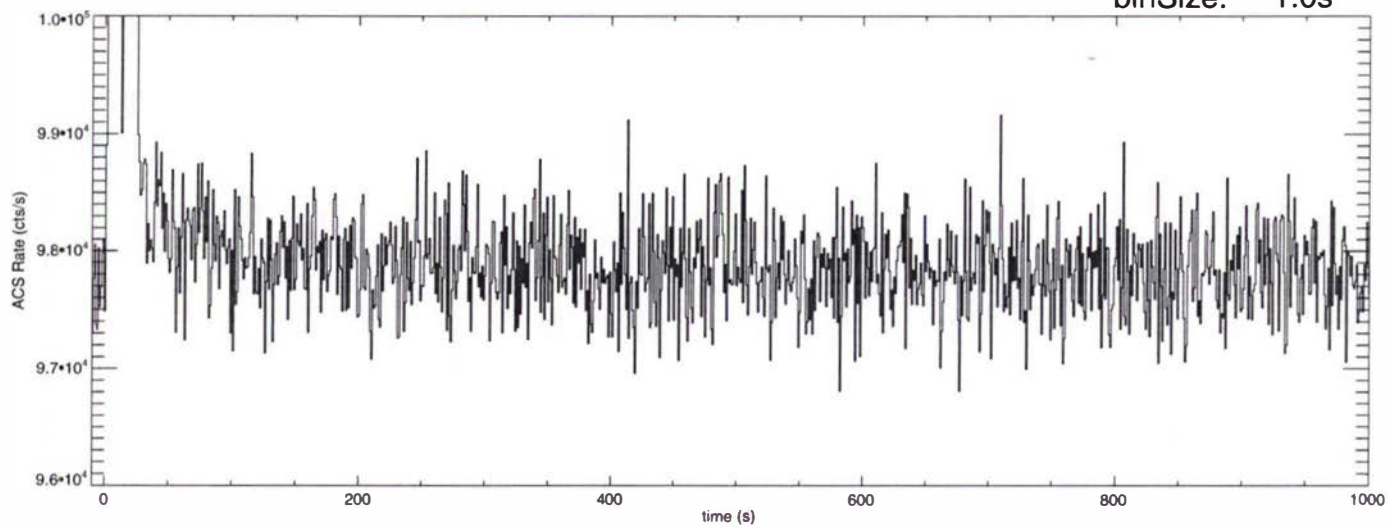
binSize: 40.s



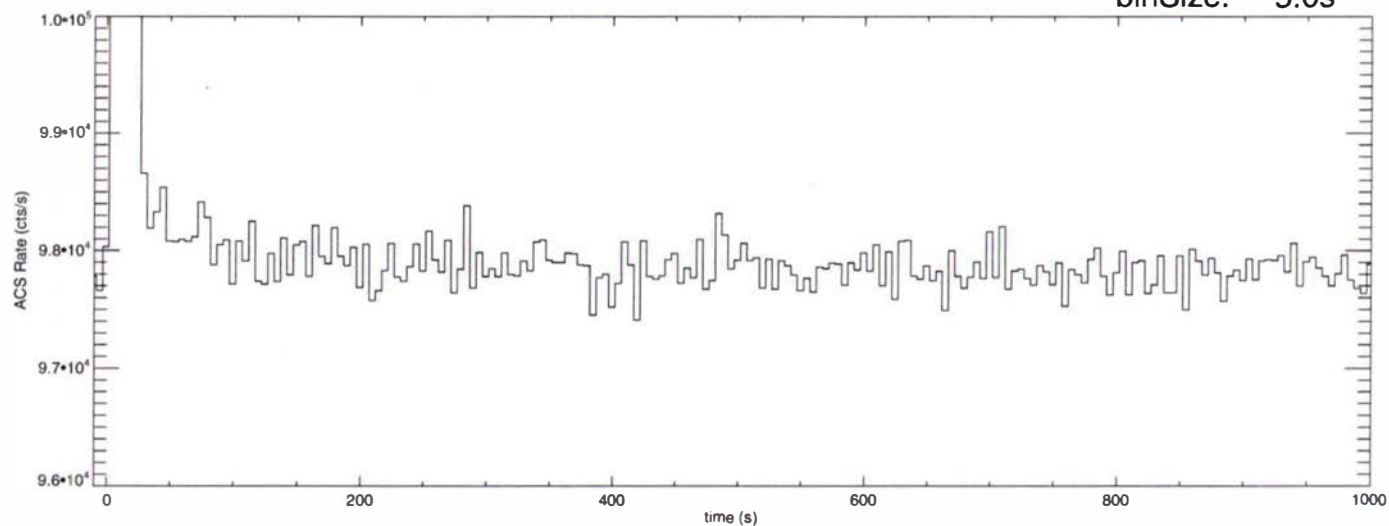
binSize: 0.50s



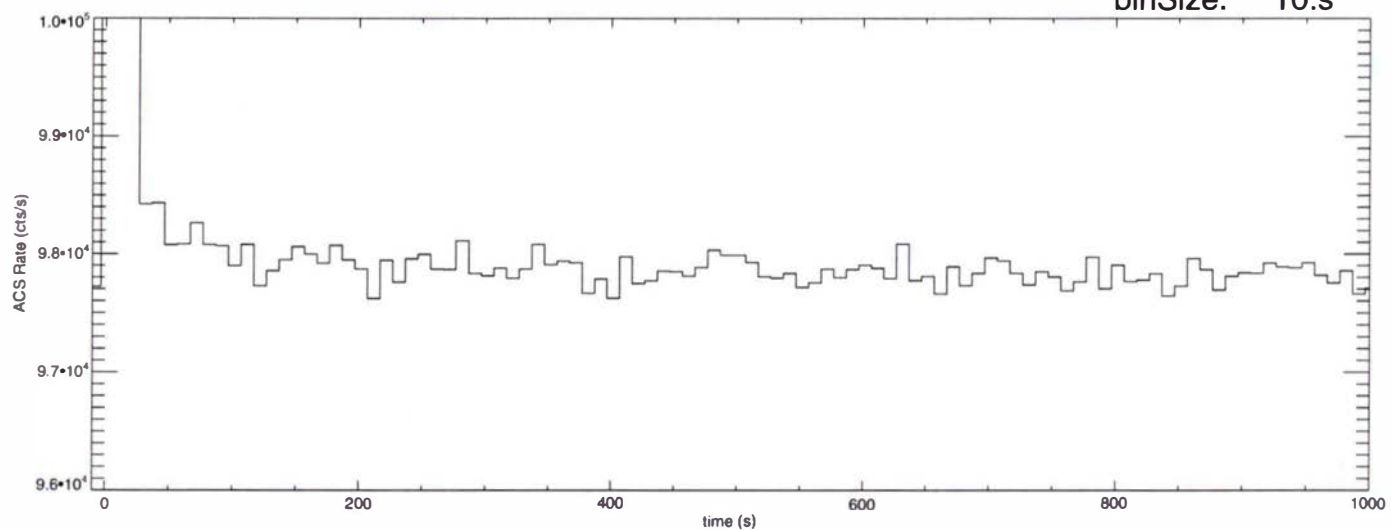
binSize: 1.0s



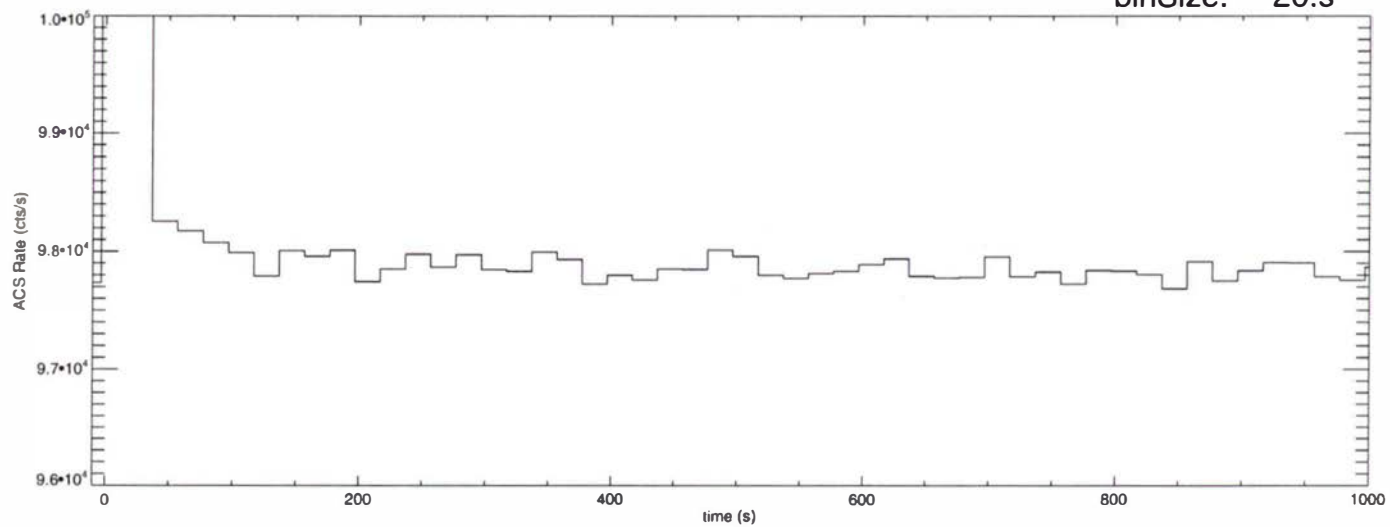
binSize: 5.0s



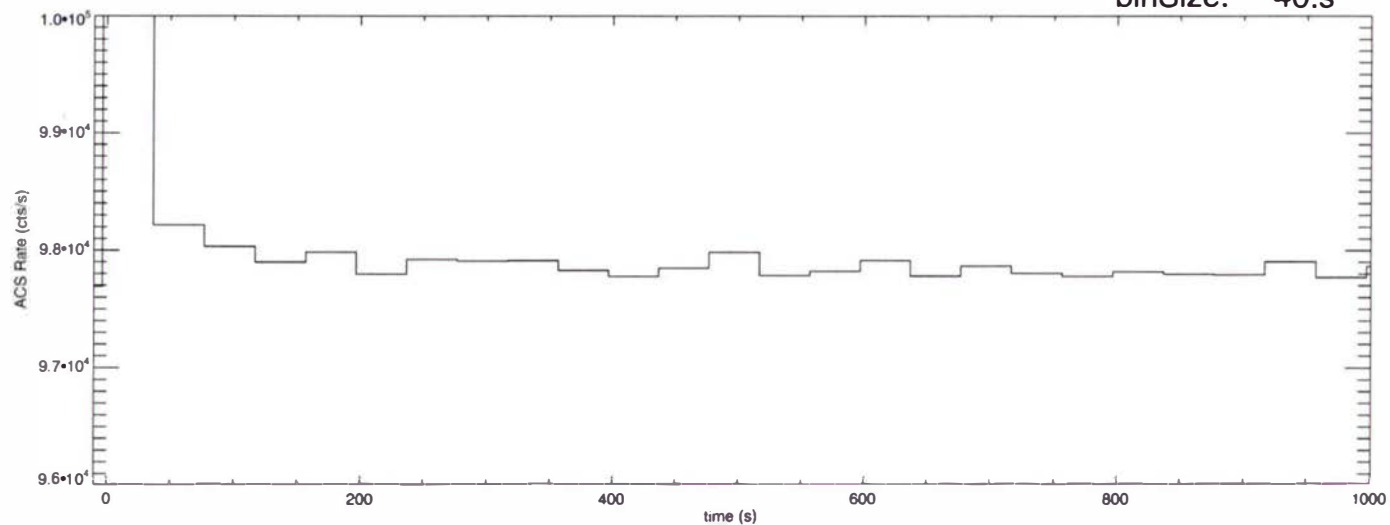
binSize: 10.s



binSize: 20.s



binSize: 40.s



From ipn-bounces@ssl.berkeley.edu Tue Sep 20 20:52:45 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Wed, 21 Sep 2011 12:53:09 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: "Valentin Pal'shin" <val@mail.ioffe.ru>
Cc: IPN <ipn@ssl.berkeley.edu>
Subject: Re: [Ipn] exceptionally intense burst detected by Konus-Wind on
September 18
X-Ucb-Scan-Signature: 5af03171228d07ba498b5819fd88c56f3ea3fcdc
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 Valentin and Kevin,

Unfortunately Suzaku saw nothing at this time
due to the Earth occultation.
Sorry for my delayed response because
a data storage was in a trouble.

Best wishes,
Kazu
on behalf of the Suzaku WAM team

On Mon, 19 Sep 2011 09:59:46 +0400
"Valentin Pal'shin" <val@mail.ioffe.ru> wrote:

> Dear colleagues,
>
> An exceptionally intense GRB triggered Konus-Wind at 2011-09-18
> T0=77222.856 s UT (21:27:02.856) - see the attached figure (the peak
> count rate was $\sim 2 \times 10^5$ cnt/s).
> The source of the burst is in the southern ecliptic hemisphere at medium
> to high ecliptic latitude.
> This GRB was also detected by INTEGRAL-SPI-ACS.
>
> 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

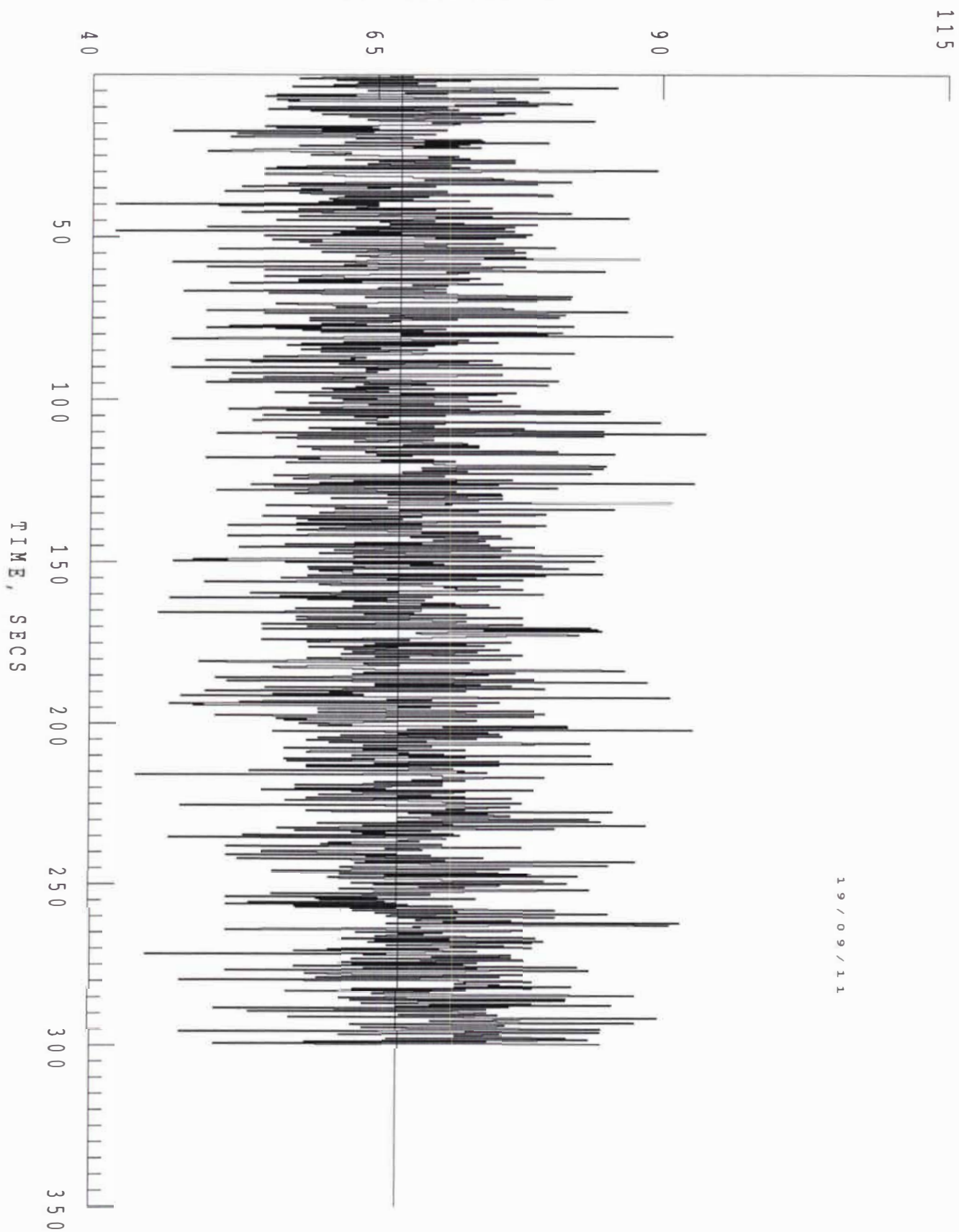
mailing list
ssl.berkeley.edu
/lists.ssl.berkeley.edu/mailman/listinfo/ipn

HESSI

18/09/11 77067.000 (INTEGRAL_20110918_77217)

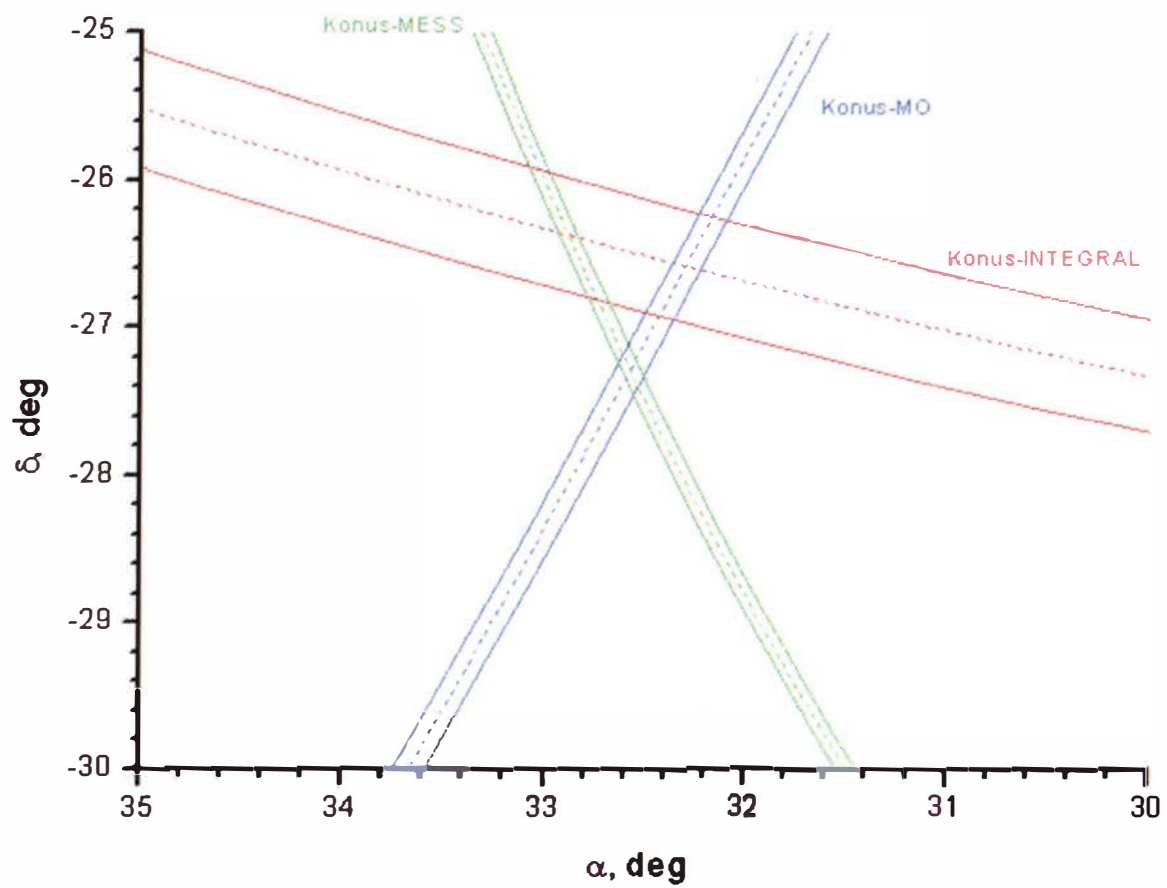
25- 150 keV

COUNTS/0.250 S

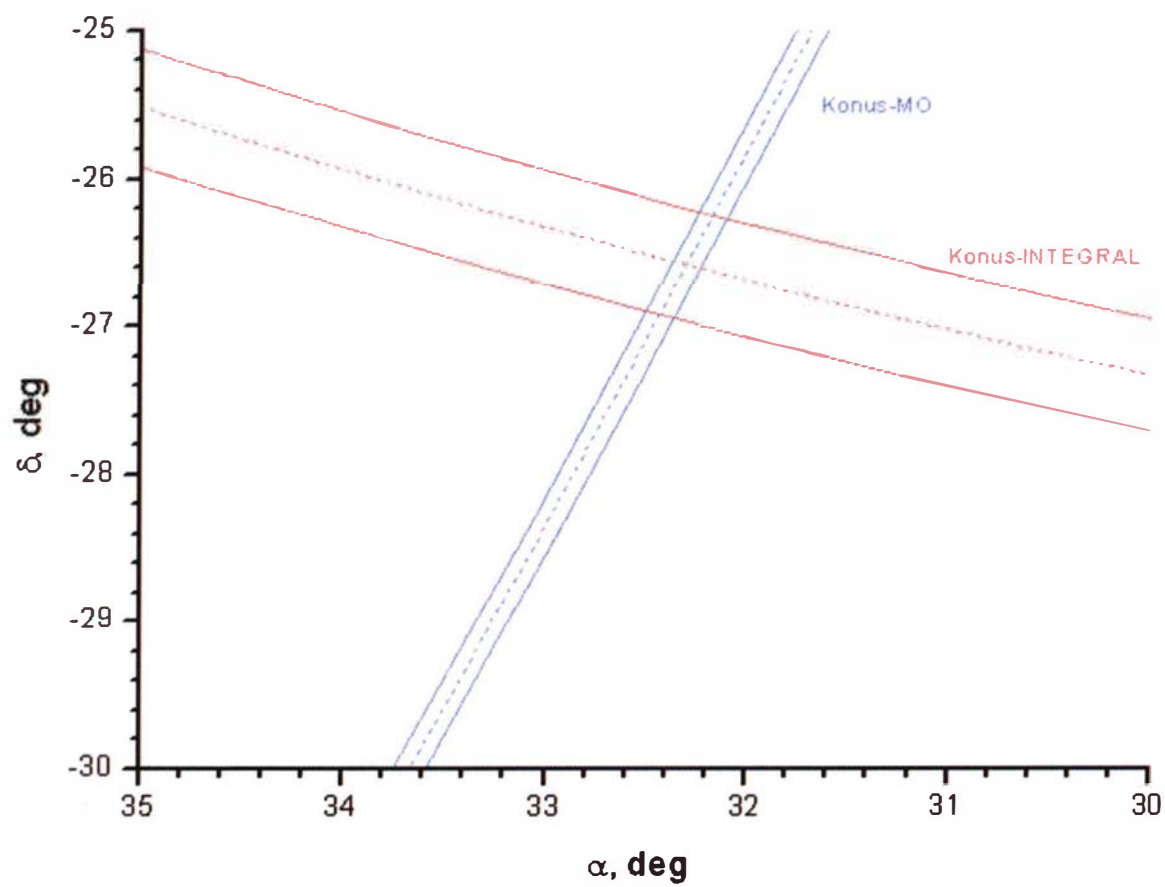


19/09/11

GRB 110918(A)



GRB 110918(A)



Subject: [lpn] BAT lightcurve for trigger at 110918_2126

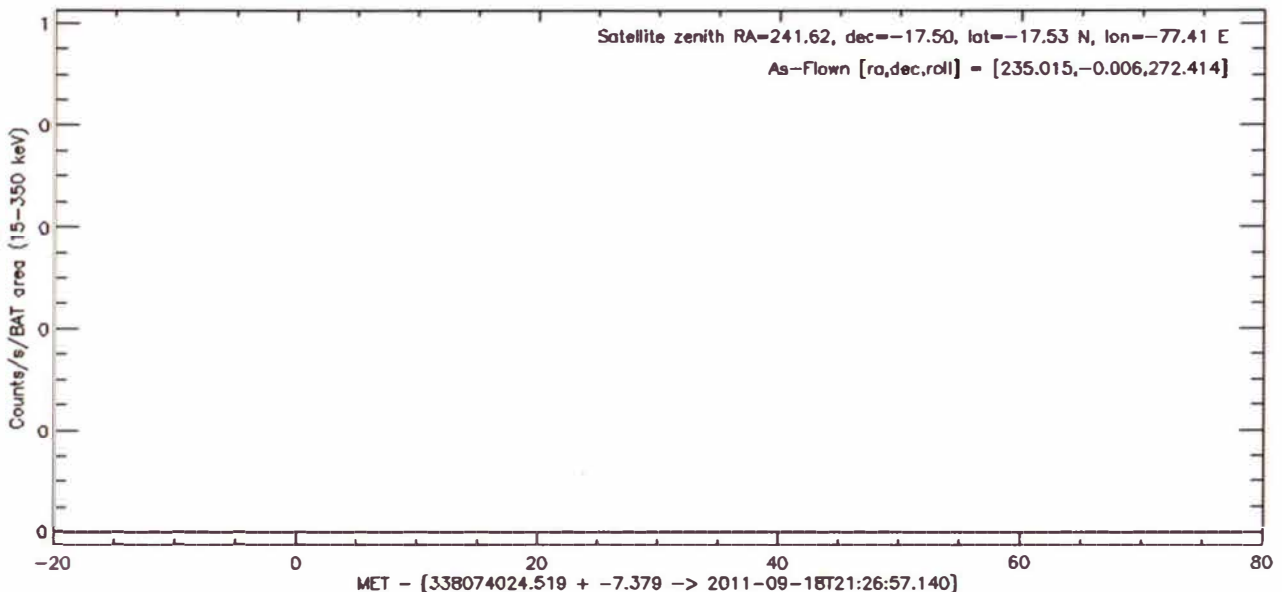
From: palmer+automatic_lightcurve@lanl.gov

Date: Sun, 18 Sep 2011 23:20:29 -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/110918_2126.png



```
% /usr/local/bin/swinfo -o 338074024.519
Time(MET + UTC -> UT):      338074024.519 + -7.379 -> 2011-09-18T21:26:57.140
Swift Zenith(RA,dec):       241.62, -17.50
Swift Location(lon,lat,alt): -77.41 E, -17.53 N, 588 km
Obs Sequence Number:        00074261018
Obs Target Name:             saa-cold-261-07
Obs Date and Times:          2011-09-18 21:22:54 - 21:42:50
Obs Pointing(ra,dec,roll):   235.015, -0.006, 272.41
```

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

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

/tmp/110918_2126.png Content-Type: image/png
Content-Encoding: base64

/tmp/110918_2126_bat64ms_ipn

/tmp/110918_2126_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 Mon Sep 19 05:26:50 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Mon, 19 Sep 2011 14:28:47 +0200
From: Arne Rau <arau@mpe.mpg.de>
To: ipn@ssl.berkeley.edu
X-Authenticated-Id: arau
Subject: Re: [Ipn] IPN triangulation of the exceptionally intense
GRB110918(A) (Konus-SPI-ACS annulus)
X-Ucb-Scan-Signature: c281e08c584b6f94f096e4948a81101d15495cec
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='DC_IMAGE_SPAM_HTML 0.141,
DC_IMAGE_SPAM_TEXT 0.123, DC_PNG_UNO_LARGO 0.001, RCVD_IN_DNSWL_MED -2.3
RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Hi Valentin,

this location is also consistent with the non-detection by Fermi/GBM.
The attached visibility plot (quick calculation from David Gruber,
student here at MPE) demonstrates this. The hatched area is the one
obscured by the Earth.

cheers,

A.

> Dear colleagues,

>

> We have triangulated the exceptionally intense GRB110918(A) to a
> preliminary Konus-SPI-ACS annulus centered at RA(2000)=17.616 deg (01h
> 10m 28s) Dec(2000)=+13.028 deg (+13d 01' 40"), whose radius is 42.107
> +/- 0.359 deg(3 sigma).

This annulus may be improved.

Whole annulus is outside the IBIS FoV.

>

>

> Valentin

>

>

From ipn-bounces@ssl.berkeley.edu Mon Sep 19 01:29:38 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Mon, 19 Sep 2011 10:31:26 +0200 (CEST)
From: Sandro Mereghetti <sandro@iasf-milano.inaf.it>
X-Sender: sandro@zeus.lambrate.inaf.it
To: "Valentin Pal'shin" <val@mail.ioffe.ru>
Cc: IPN <ipn@ssl.berkeley.edu>
Subject: Re: [Ipn] exceptionally intense burst detected by Konus-Wind on
September 18
X-Ucb-Scan-Signature: ca761e79c155199576b2e6b8860b7410a115174f
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.

Dear Valentin
this event is visible also in the IBIS/ISGRI data and, even if outside the
field of view, it was so intense to saturate telemetry.

IBIS was pointed at RA=252.701 DEC=-42.404
so about 15 degrees around this position can be excluded

ciao
sandro

On Mon, 19 Sep 2011, Valentin Pal'shin wrote:

> Dear colleagues,

> An exceptionally intense GRB triggered Konus-Wind at 2011-09-18 T0=77222.856
> s UT (21:27:02.856) - see the attached figure (the peak count rate was
> $\sim 2 \times 10^5$ cnt/s).
> The source of the burst is in the southern ecliptic hemisphere at medium to
> high ecliptic latitude.
> This GRB was also detected by INTEGRAL-SPI-ACS.
>
> 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

=====

From ipn-bounces@ssl.berkeley.edu Mon Sep 19 05:35:13 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Mon, 19 Sep 2011 08:36:47 -0400
From: Hans Krimm <hans.krimm@nasa.gov>
To: Arne Rau <arau@mpe.mpg.de>
Cc: "ipn@ssl.berkeley.edu" <ipn@ssl.berkeley.edu>
Subject: Re: [Ipn] IPN triangulation of the exceptionally intense
GRB110918(A) (Konus-SPI-ACS annulus)
X-Ucb-Scan-Signature: 2cdbec870a2b07b29a315963fce859845bb22c3c
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RCVD_IN_DNSWL_MED -2.3,
RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Valentin:

Sadly, Swift had entered the SAA about 1.5 minutes before this burst. I don't see any increase in the raw rate at the time of the event.

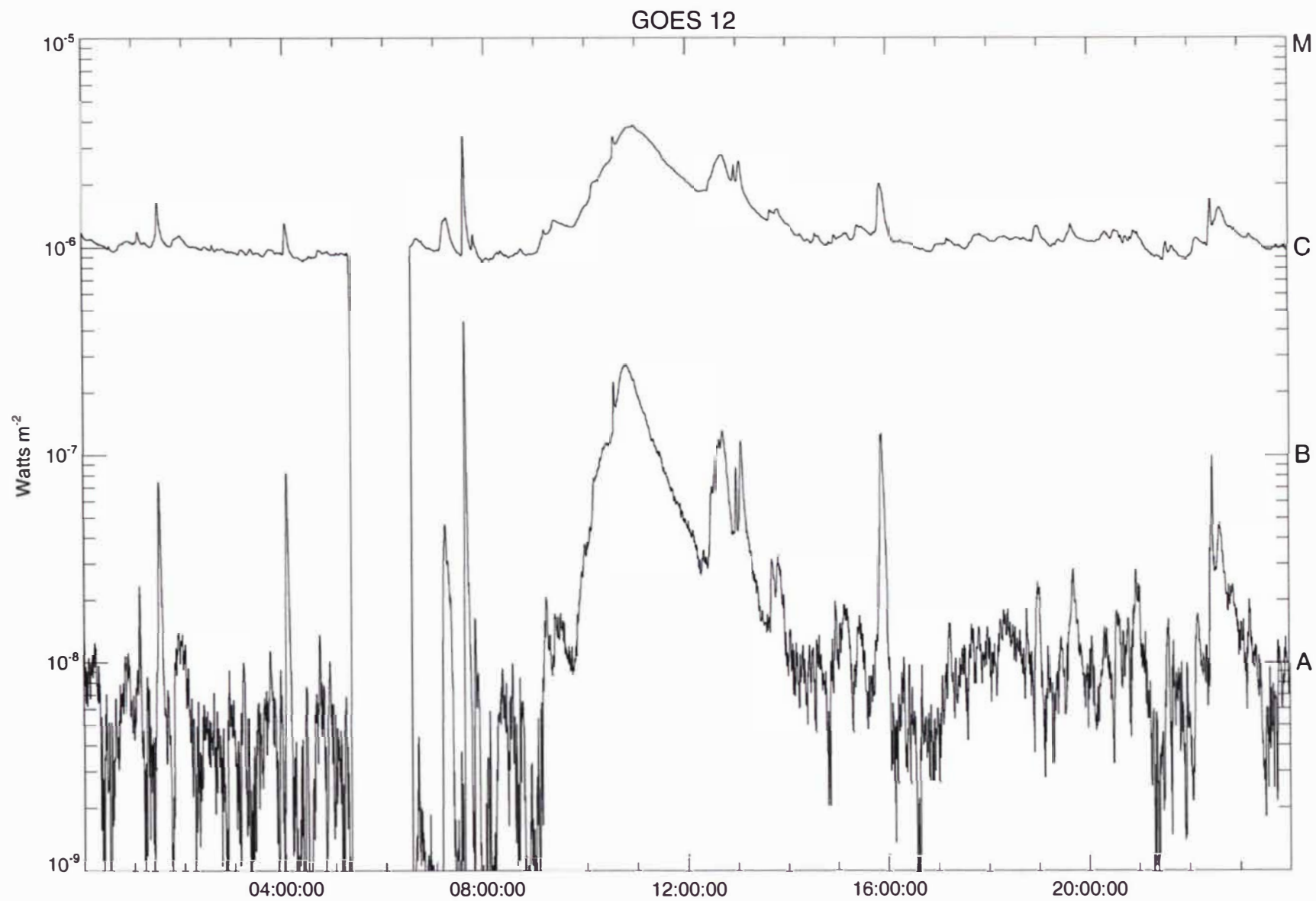
--Hans

On 9/19/11 8:28 AM, Arne Rau wrote:

> Hi Valentin,
>
> this location is also consistent with the non-detection by Fermi/GBM.
> The attached visibility plot (quick calculation from David Gruber,
> student here at MPE) demonstrates this. The hatched area is the one
> obscured by the Earth.
>
> cheers,
A.
> Dear colleagues,
>>
>> We have triangulated the exceptionally intense GRB110918(A) to a
>> preliminary Konus-SPI-ACS annulus centered at RA(2000)=17.616 deg (01h
>> 10m 28s) Dec(2000)=+13.028 deg (+13d 01' 40"), whose radius is 42.107
>> +/- 0.359 deg(3 sigma).
>> This annulus may be improved.
>> Whole annulus is outside the IBIS FoV.
>>
>>
>> Valentin
>>
>>

--
Dr. Hans A. Krimm
Universities Space Research Association
CRESST and NASA Goddard Space Flight Center
Code 661, ASD
Greenbelt, MD 20771
USA
301-286-6955
fax 301-286-0677

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



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

Plot created: 11/09/21, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

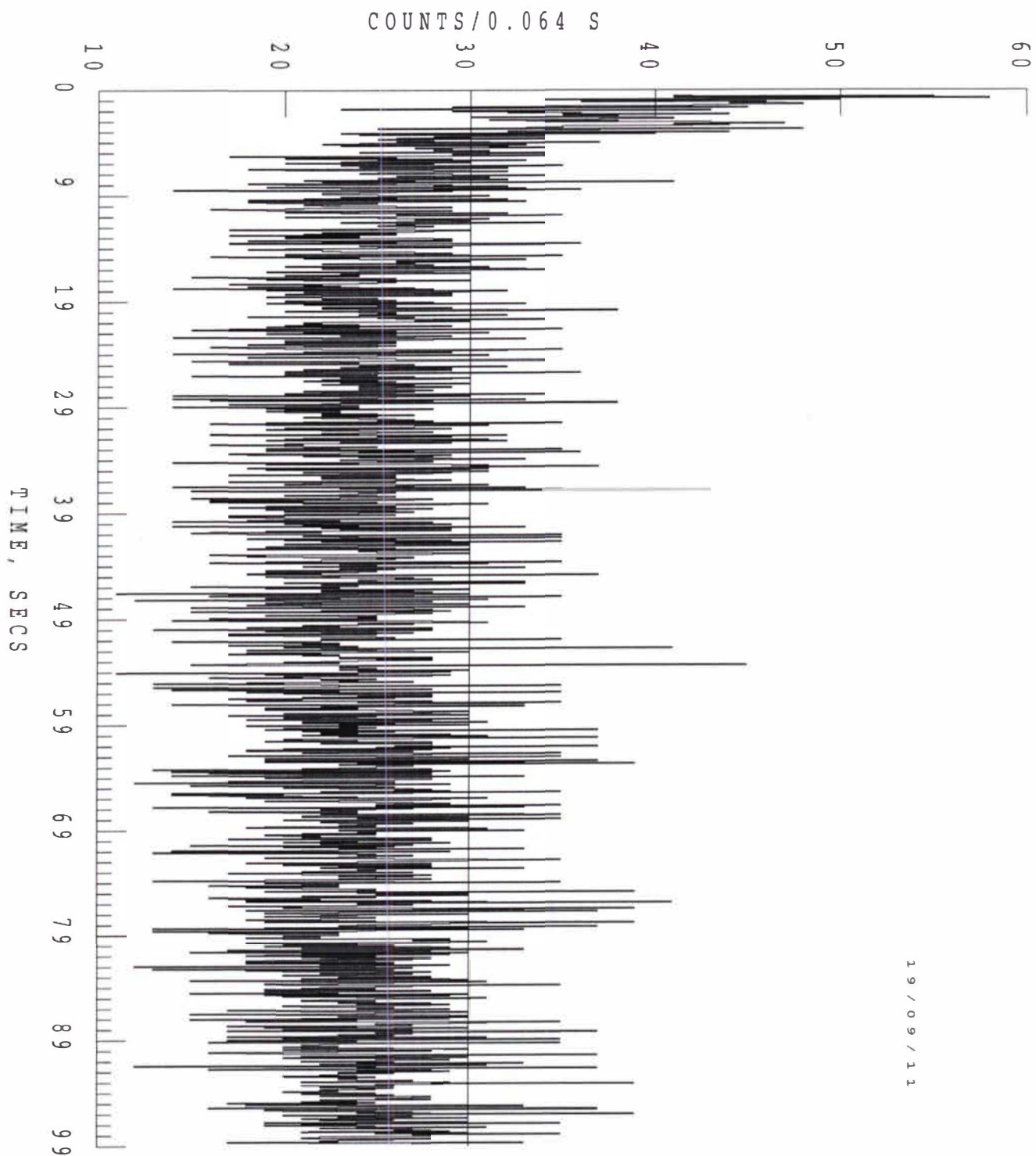
19/09/11

27816.201

07:43:36

A

50 - 200 keV



KONUS HRES 20110919 27816

TRIGGER TIME: 19/09/11 DOY 262 Julian 2455824.82194 UT = 07.727 07:43:36 (27816.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

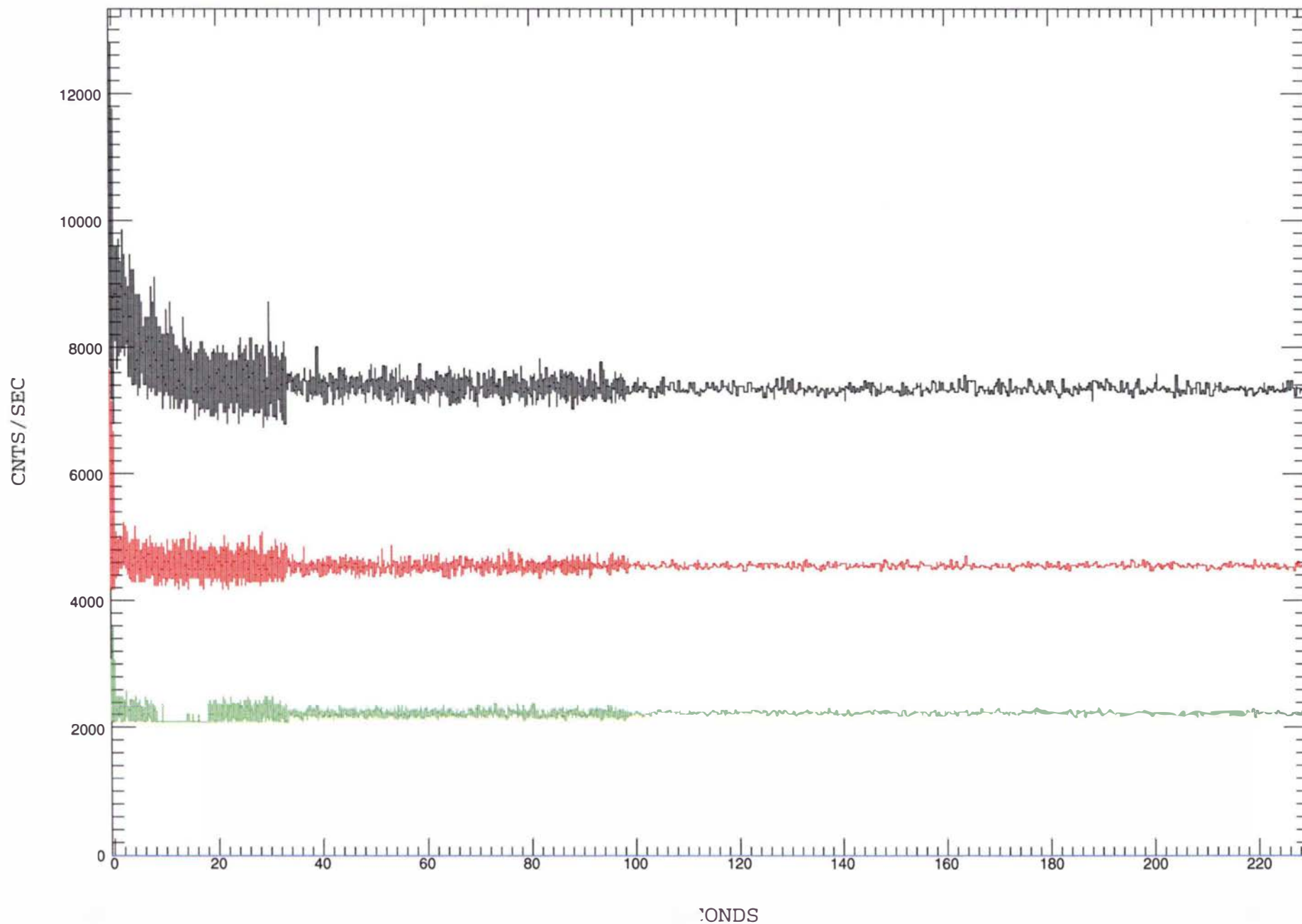
Chan 4 : [> 10 MeV]

Channel 1 + 6300

Channel 2 + 4200

Channel 3 + 2100

Channel 4 + 0



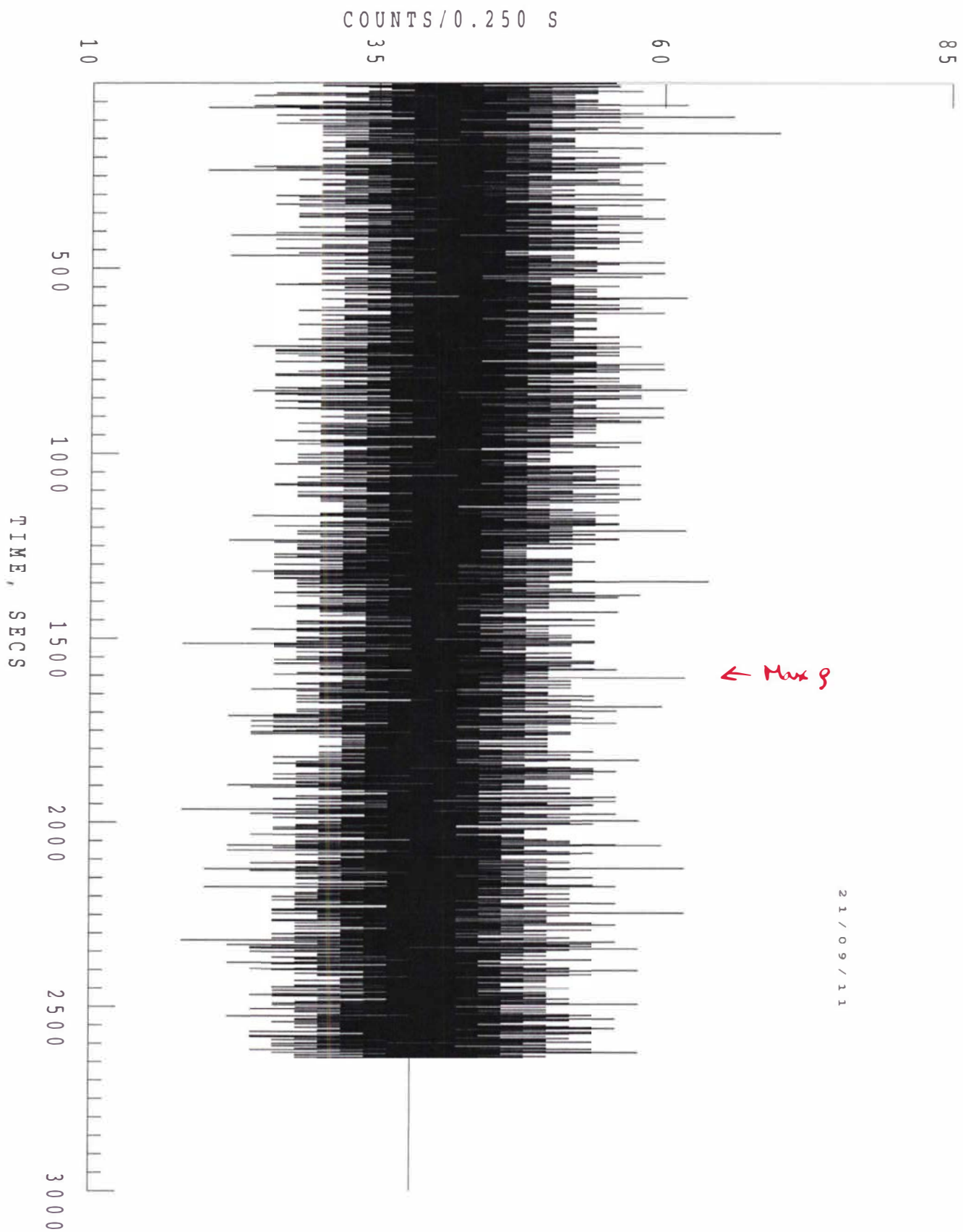
MS01

19/09/11

26483.839

A

50 - 3000 keV



KONUS2

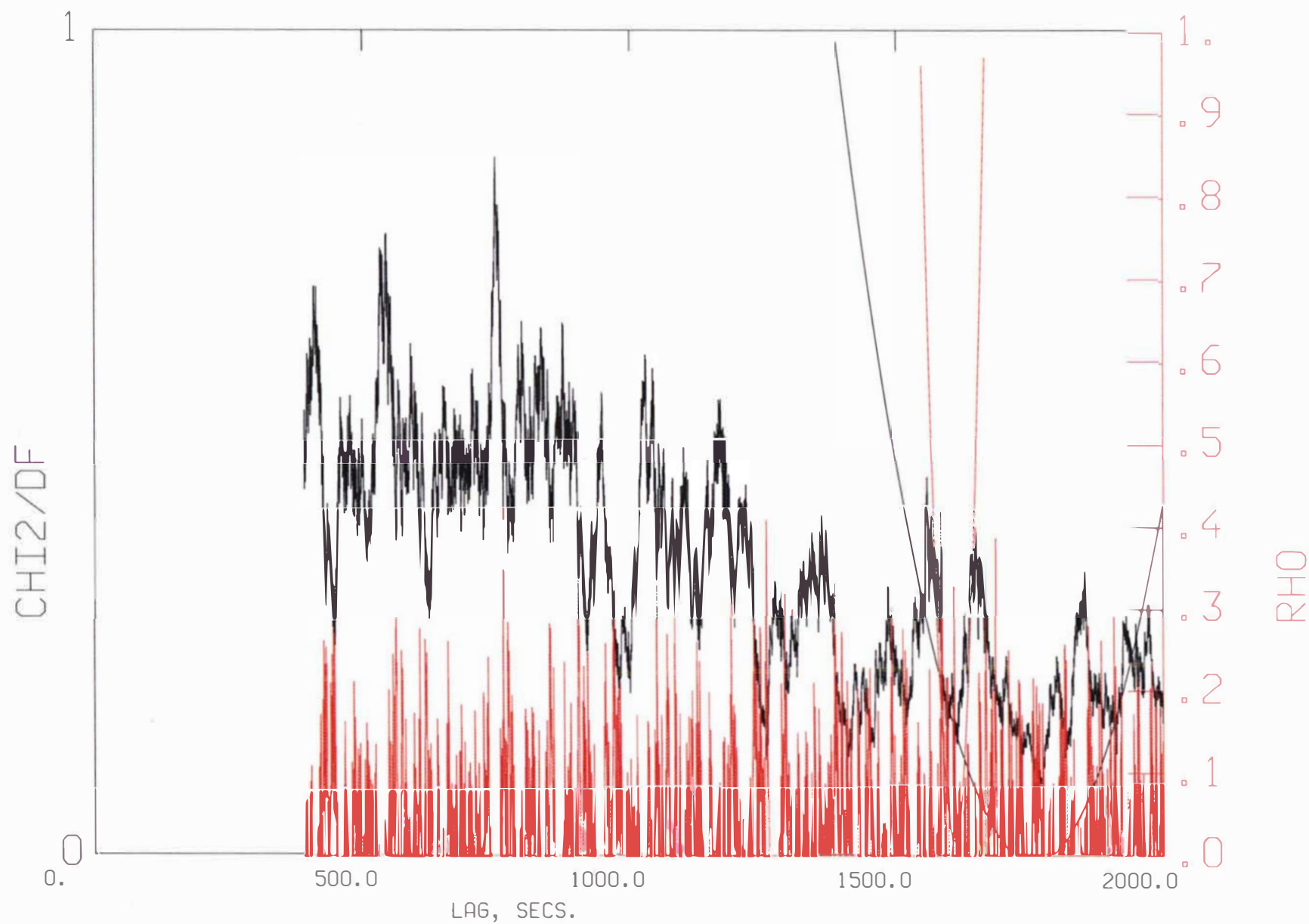
-MS01 HEND

CORRELATION

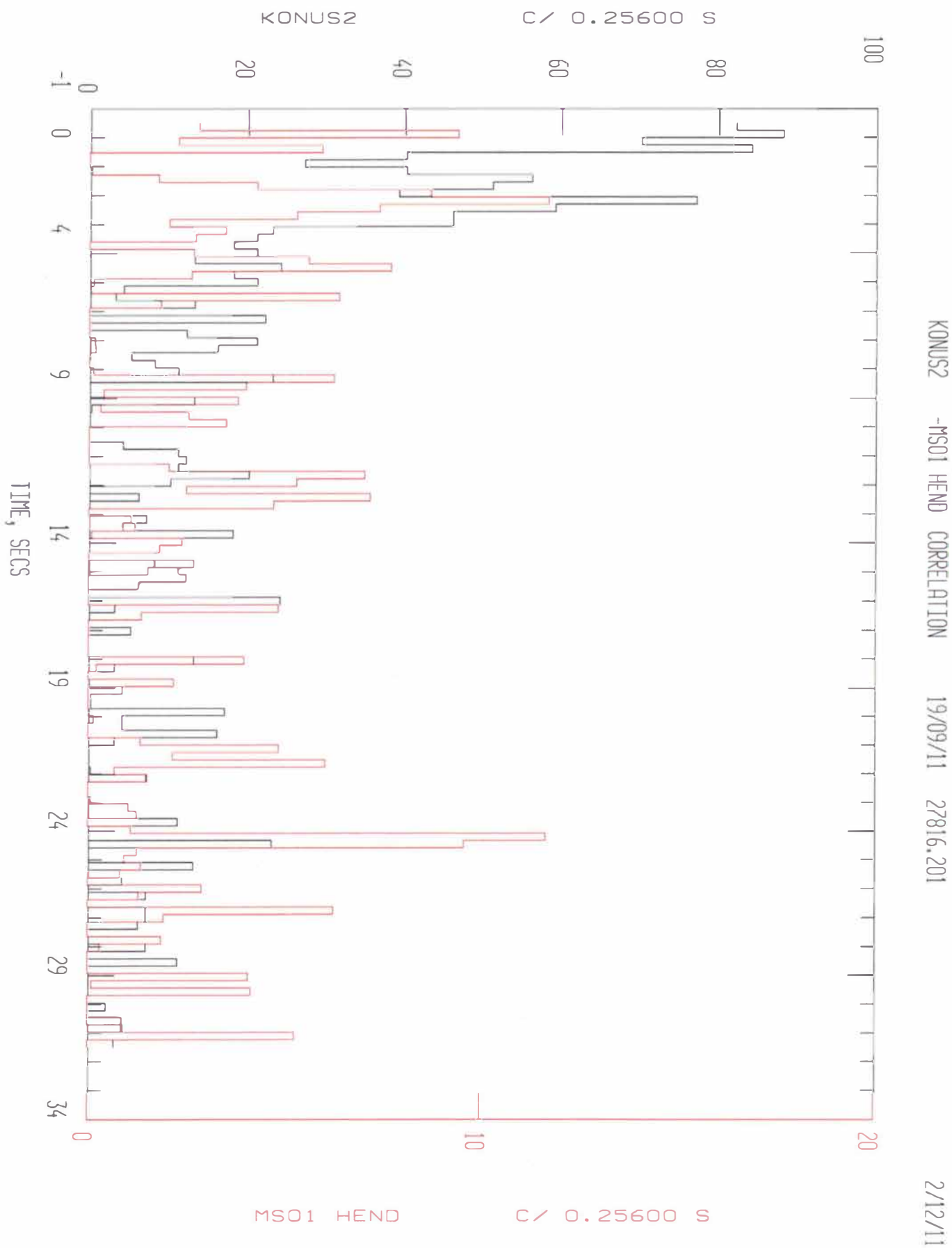
19/09/11

27816.201

2/12/11



A



From williams@gammaburst.ssl.berkeley.edu Sat Sep 24 23:02:43 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Sat, 24 Sep 2011 23:02:10 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20110919_27816
X-Ucb-Scan-Signature: 497784b7e5b689d84d09fcdbc98d6f8acd7502b4
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 24-Sep-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

Subject: [lpn] BAT lightcurve for trigger at 110919_0743

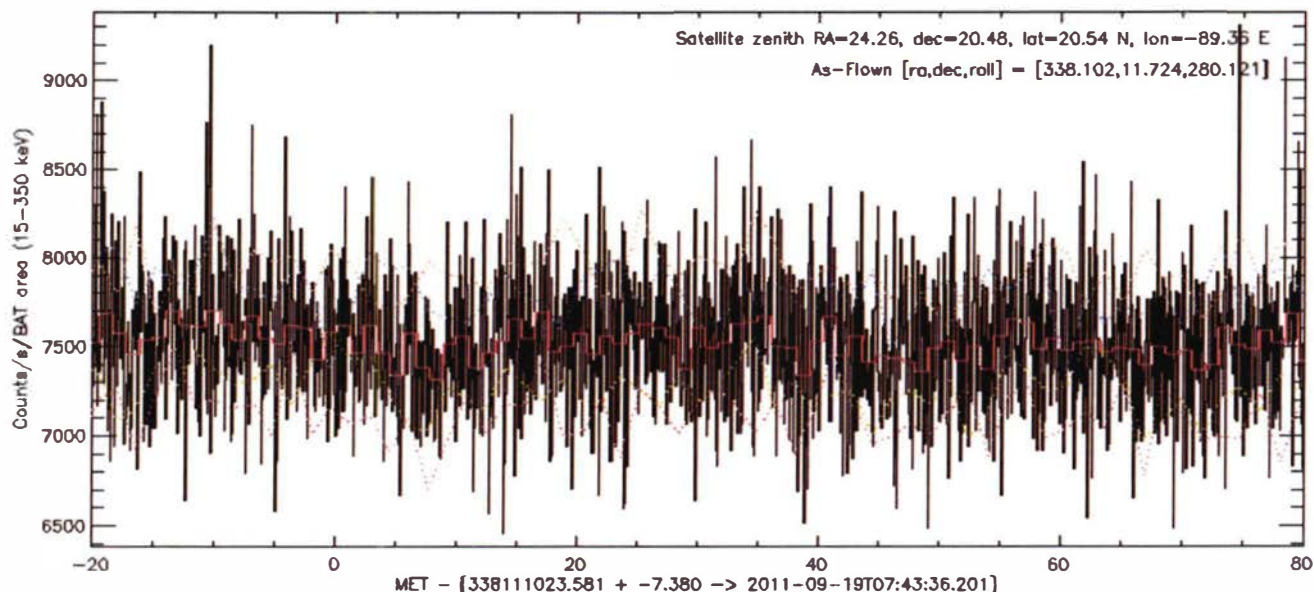
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 19 Sep 2011 19:19:08 -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/110919_0743.png



```
% /usr/local/bin/swinfo -o 338111023.581
Time(MET + UTC -> UT):      338111023.581 + -7.380 -> 2011-09-19T07:43:36.201
Swift Zenith(RA,dec):       24.26, 20.48
Swift Location(lon,lat,alt): -89.36 E, 20.54 N, 587 km
Obs Sequence Number:        00091094003
Obs Target Name:             CTA102
Obs Date and Times:          2011-09-19 07:25:54 - 07:53:49
Obs Pointing (ra,dec,roll):  338.102, 11.724, 280.12
```

--
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/110919_0743.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110919_0743_bat64ms_ipn

/tmp/110919_0743_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

Date: Jul 21 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?

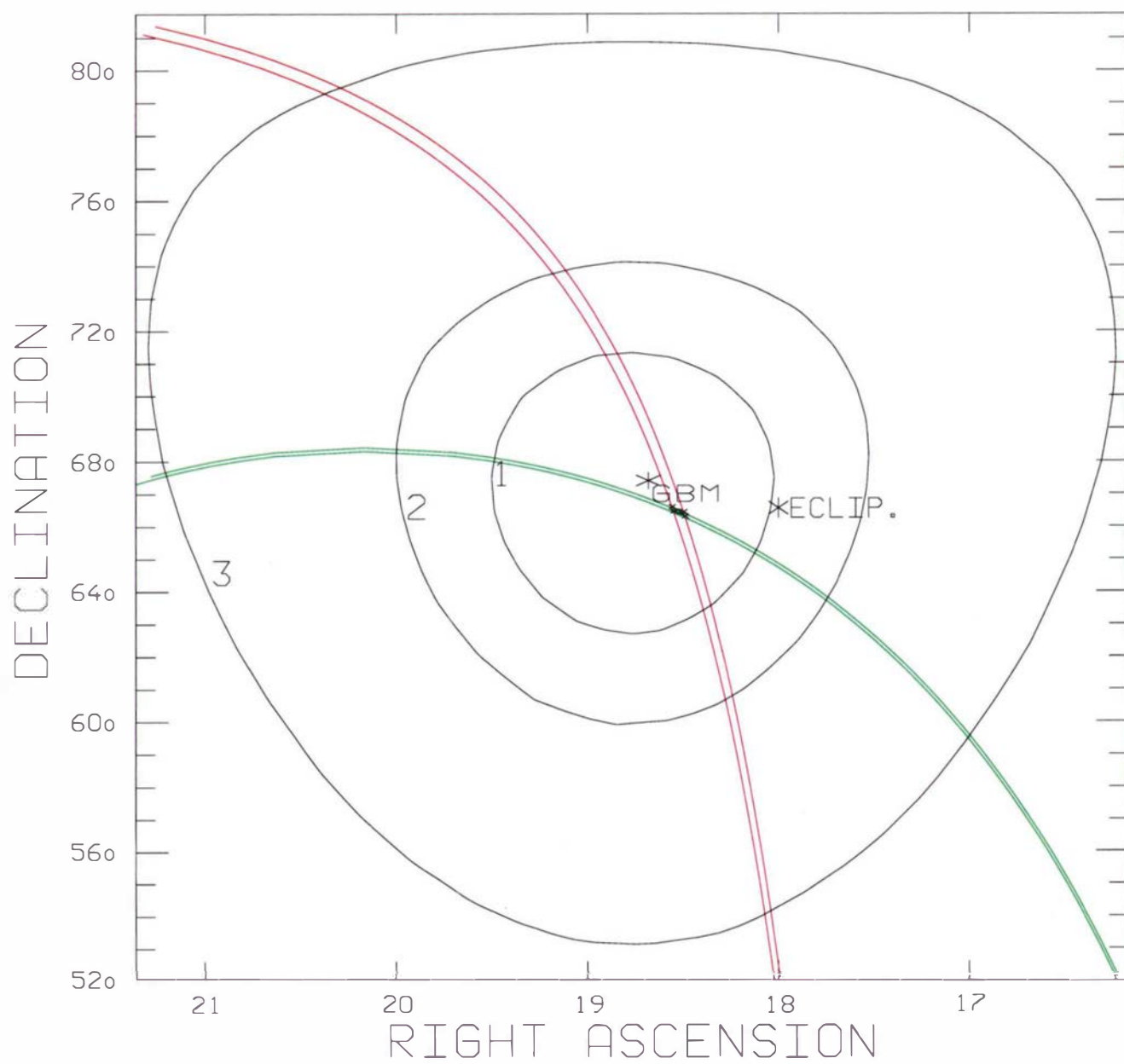
6. For 3 or More Spacecraft events

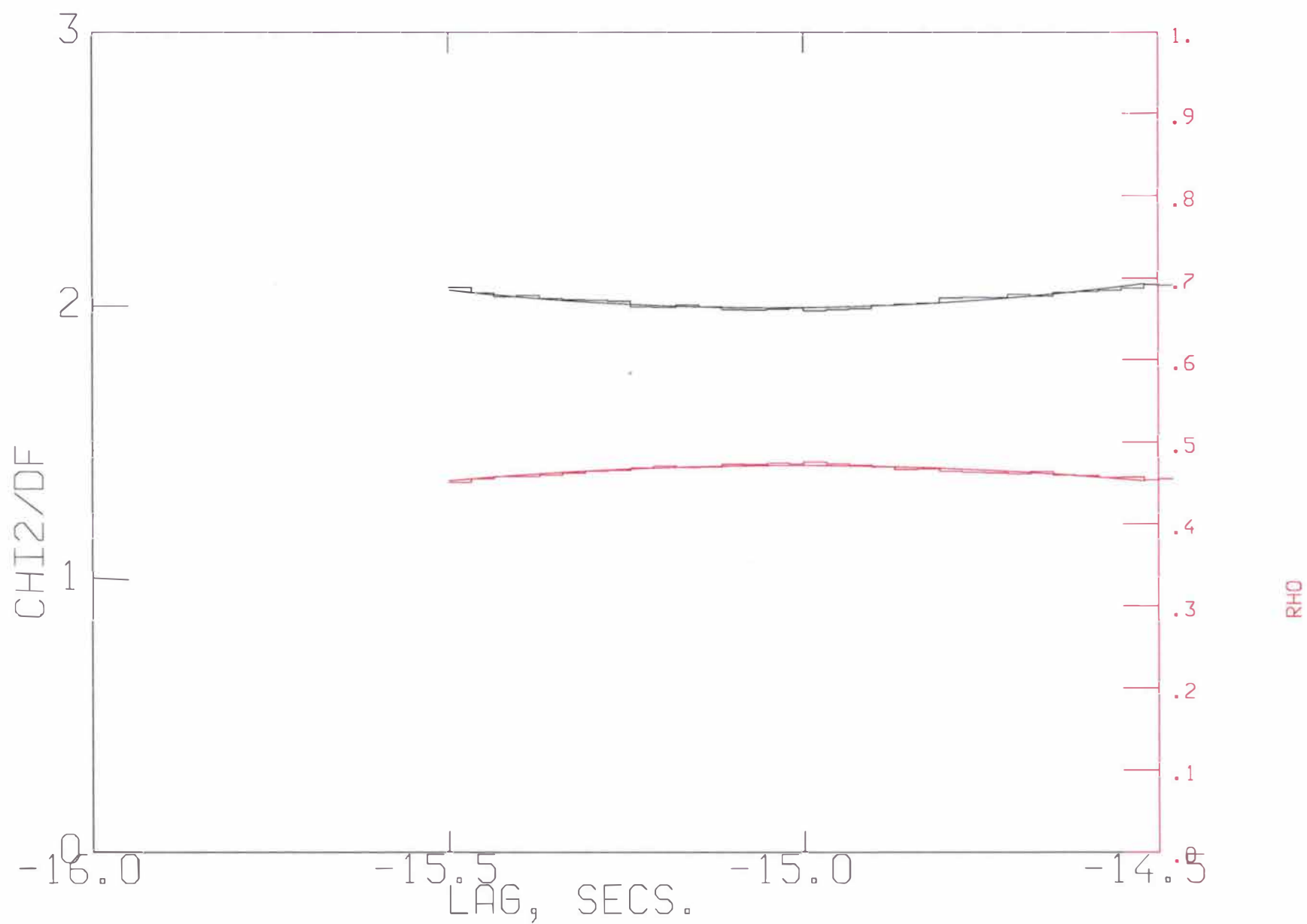
- ☐ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

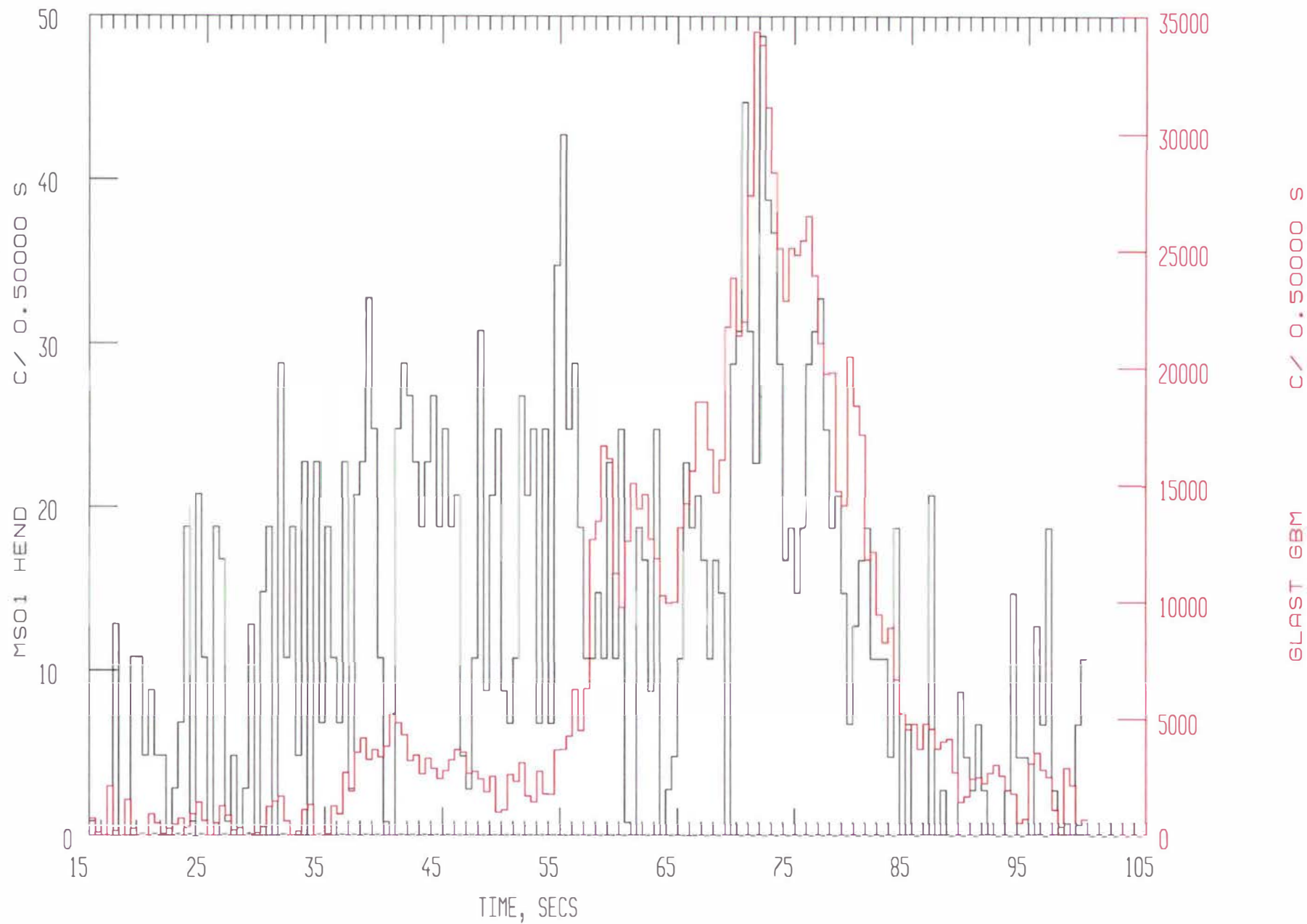
7. For INTEGRAL events

- ☐ 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-ipn1c.pl>)

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







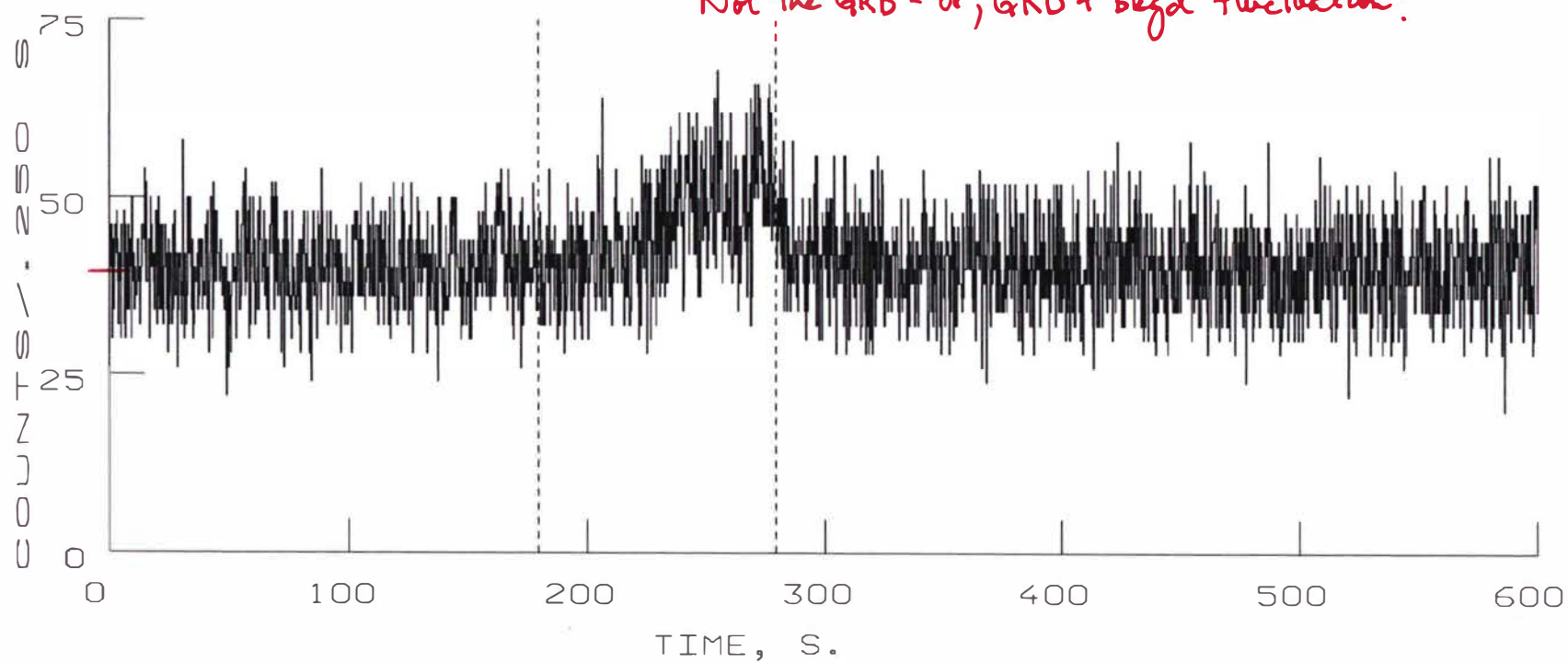
MS01 HEND

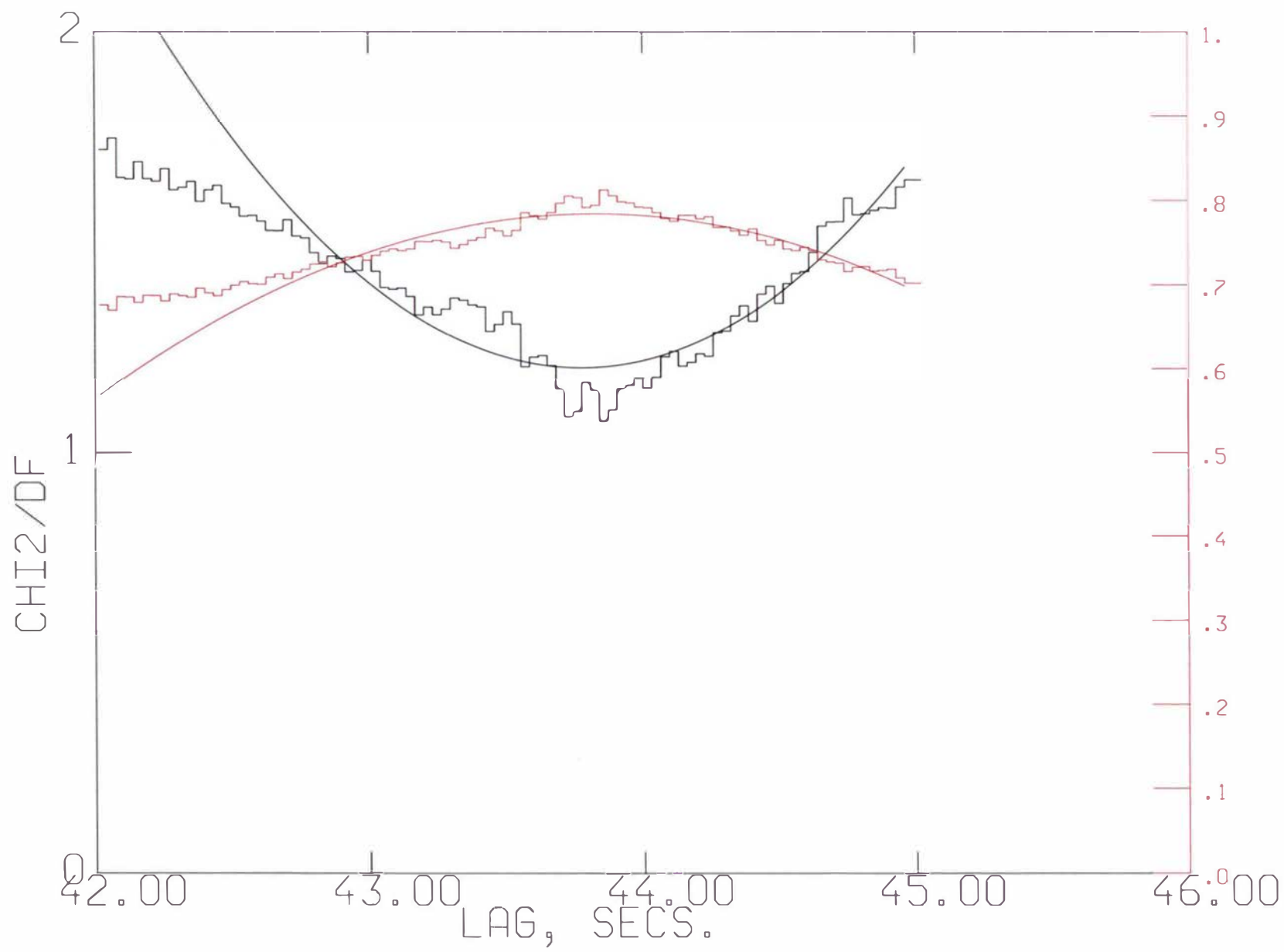
24/07/2015

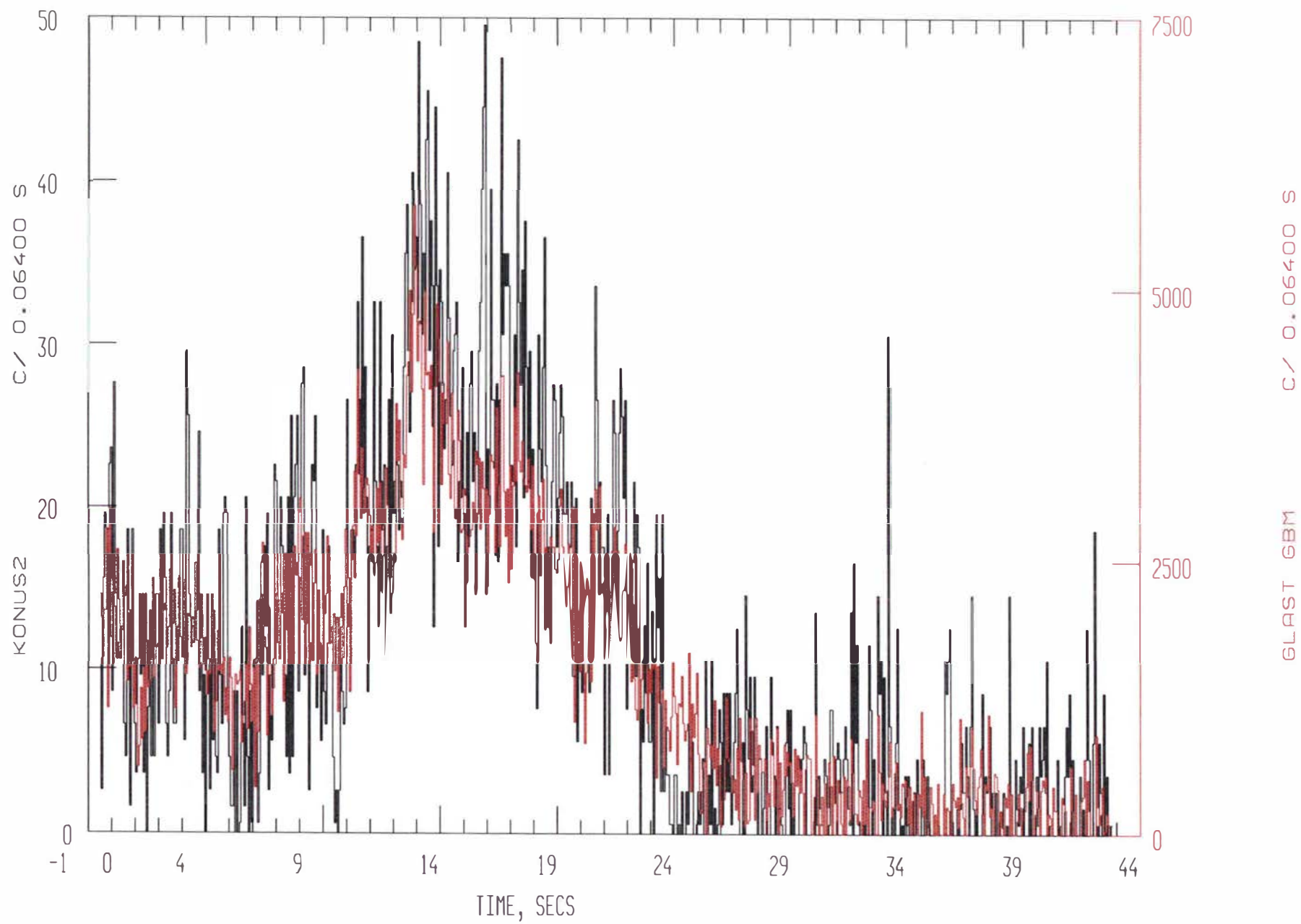
19/09/2011 54503.352 s

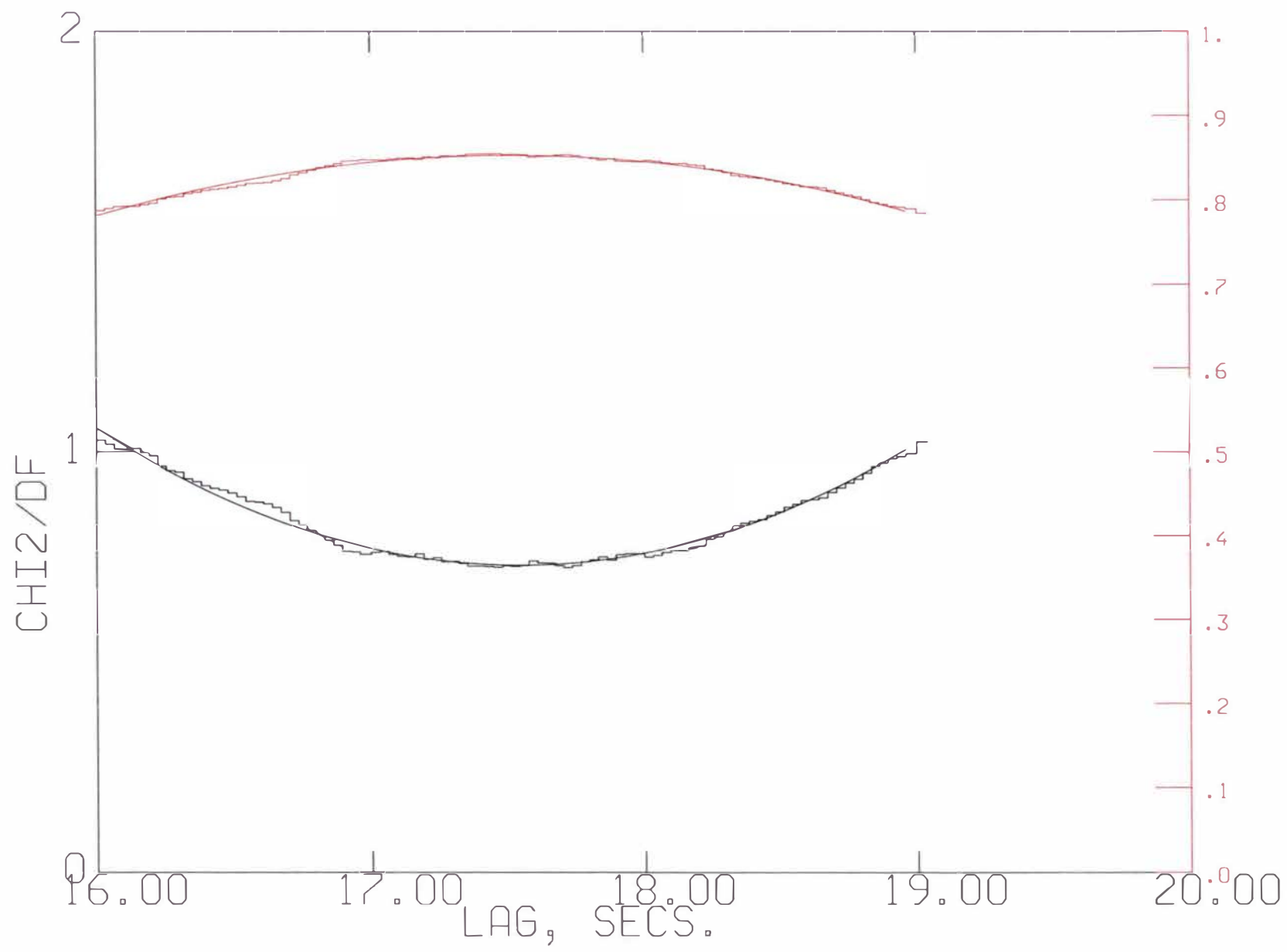
50-3000 keV

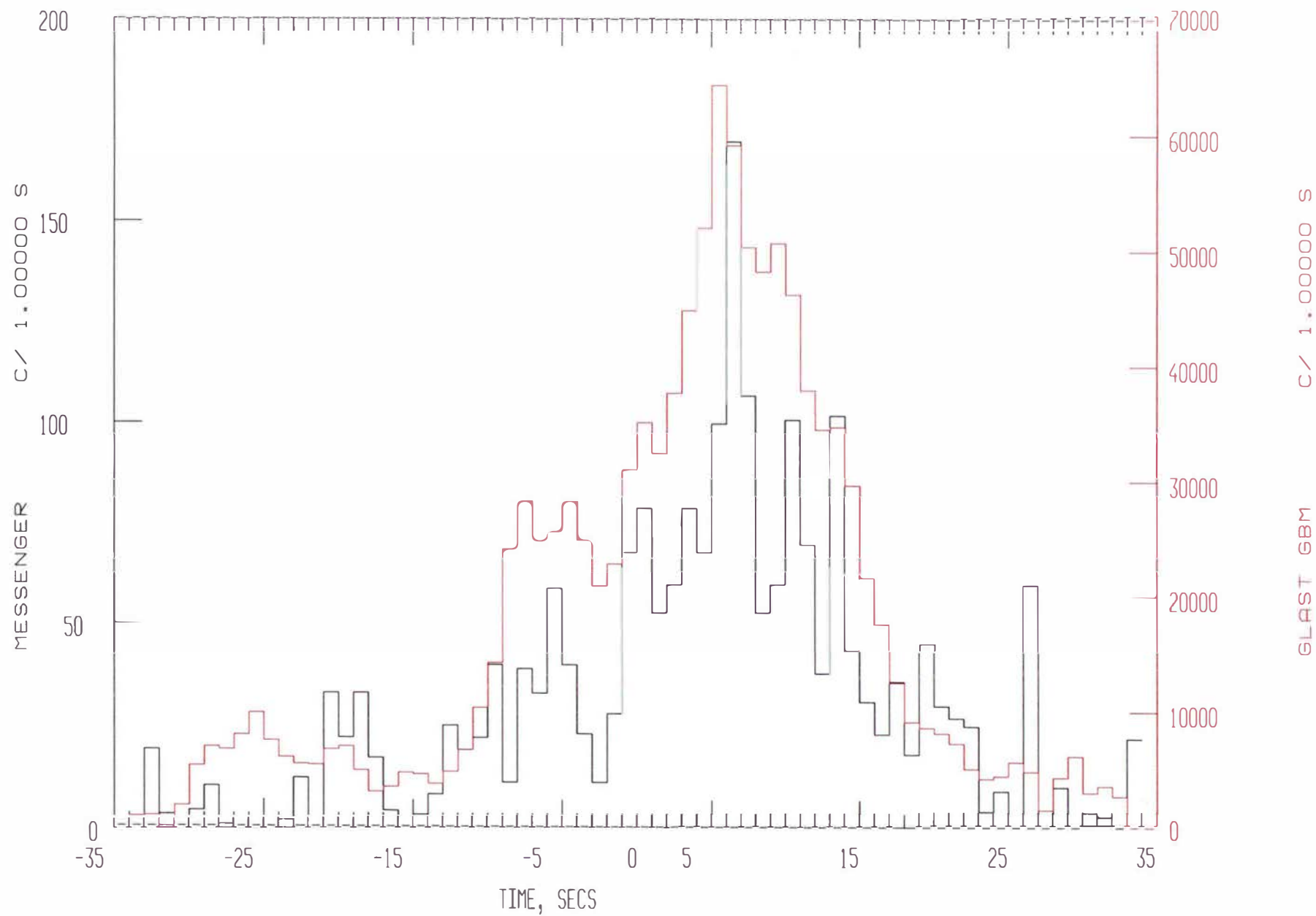
N= 10 M=**
>4.0 SIGMA FLUCTUATIONS











KONUS2

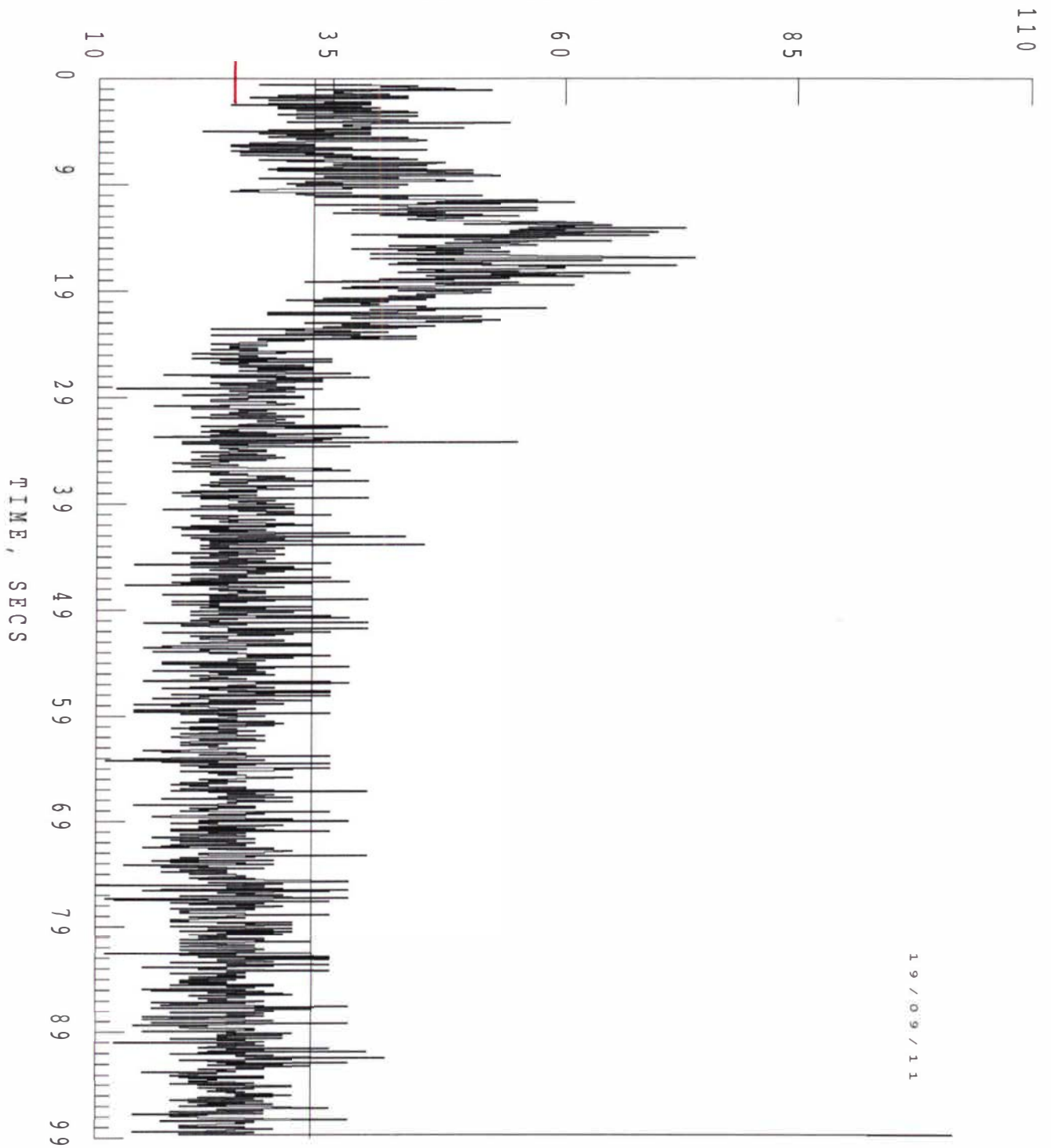
19/09/11

54753.252

B

50 - 200 keV

COUNTS/0.064 S



B

KONUS HRES 20110919 54753

TRIGGER TIME: 19/09/11 DOY 262 Julian 2455825.13372 UT = 15.209 15:12:33 (54753.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

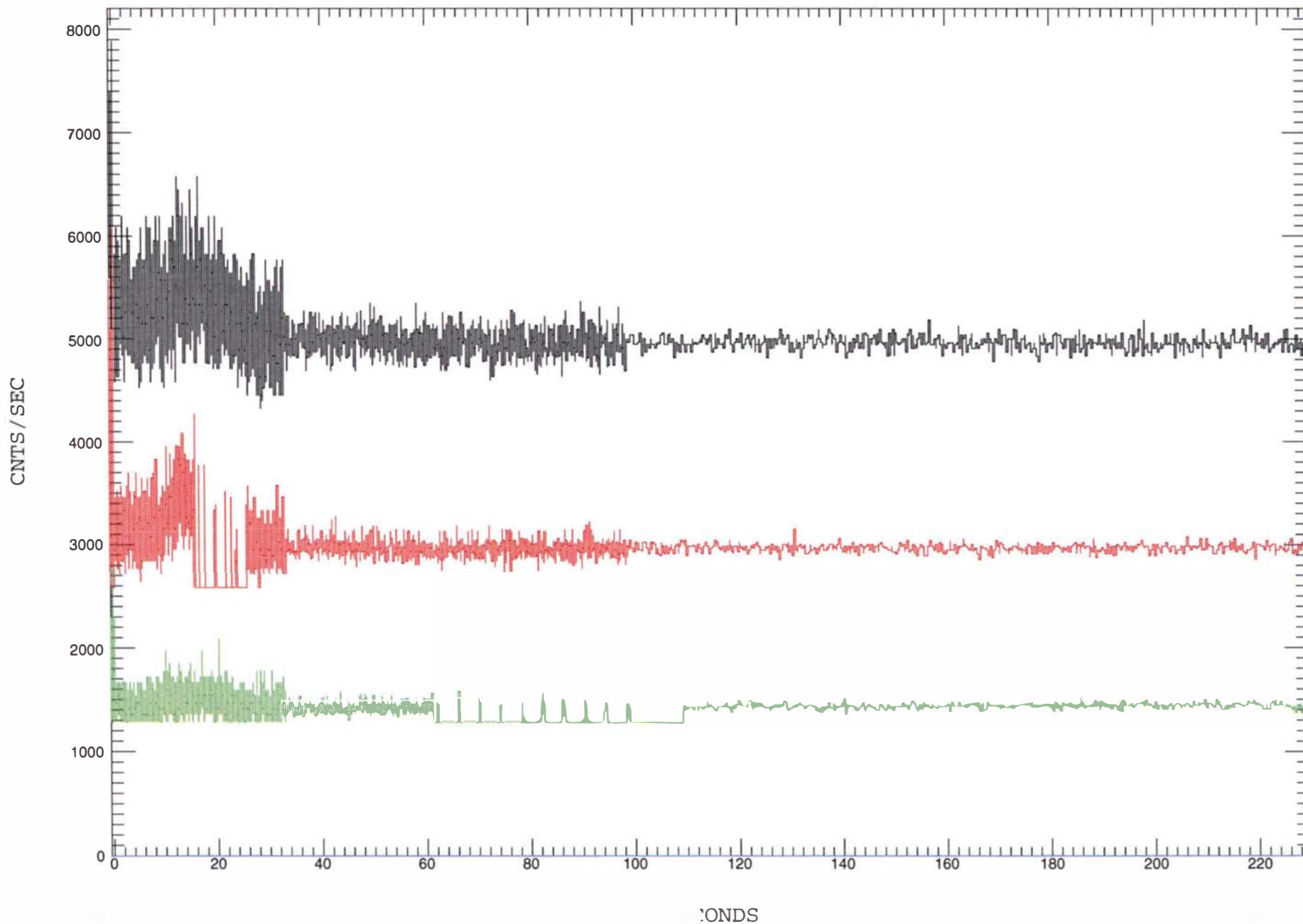
Chan 4 : [> 10 MeV]

Channel 1 + 3900

Channel 2 + 2600

Channel 3 + 1300

Channel 4 + 0

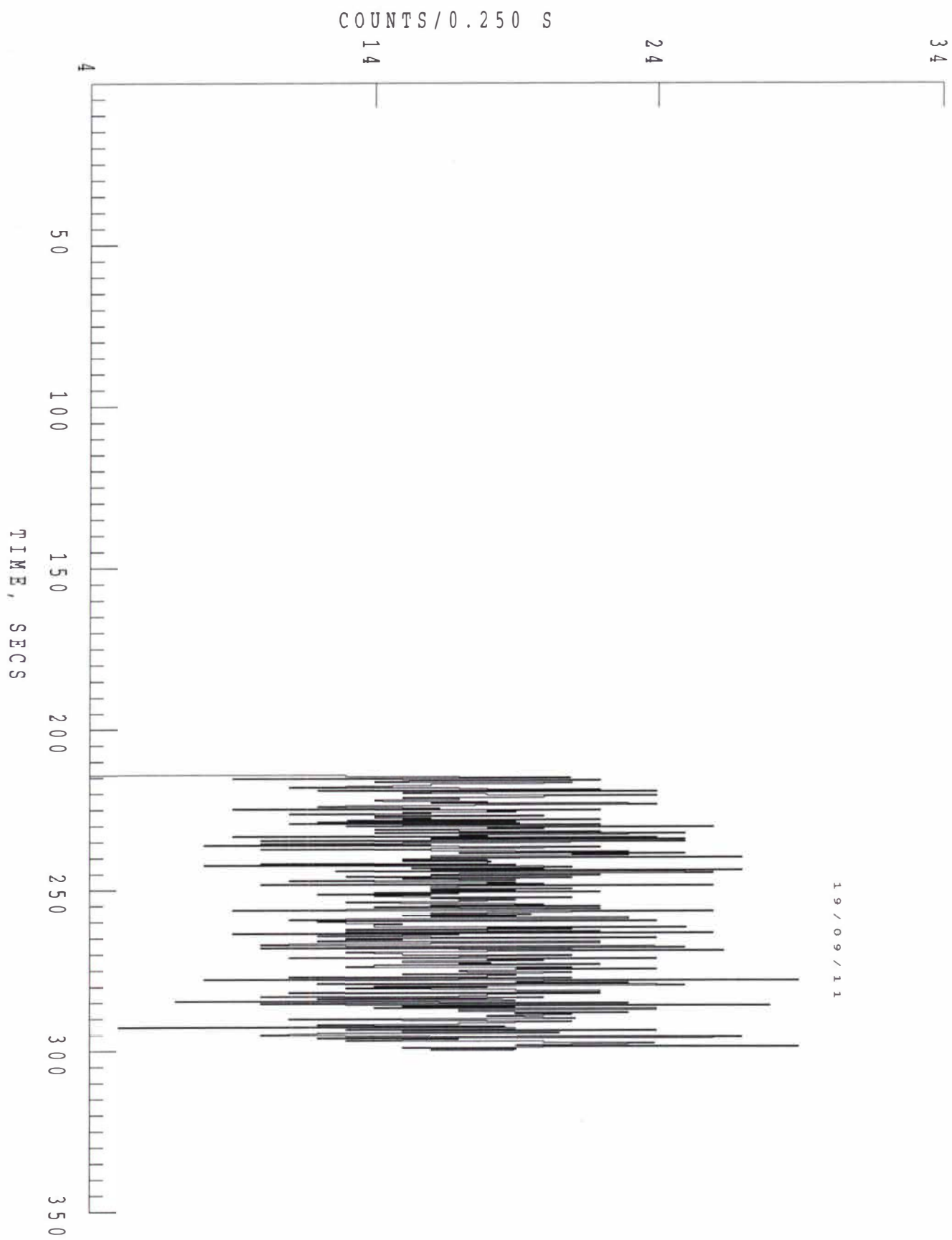


HESSI

19/09/11 54601.000 (SUZAKU_20110919_54751)

B

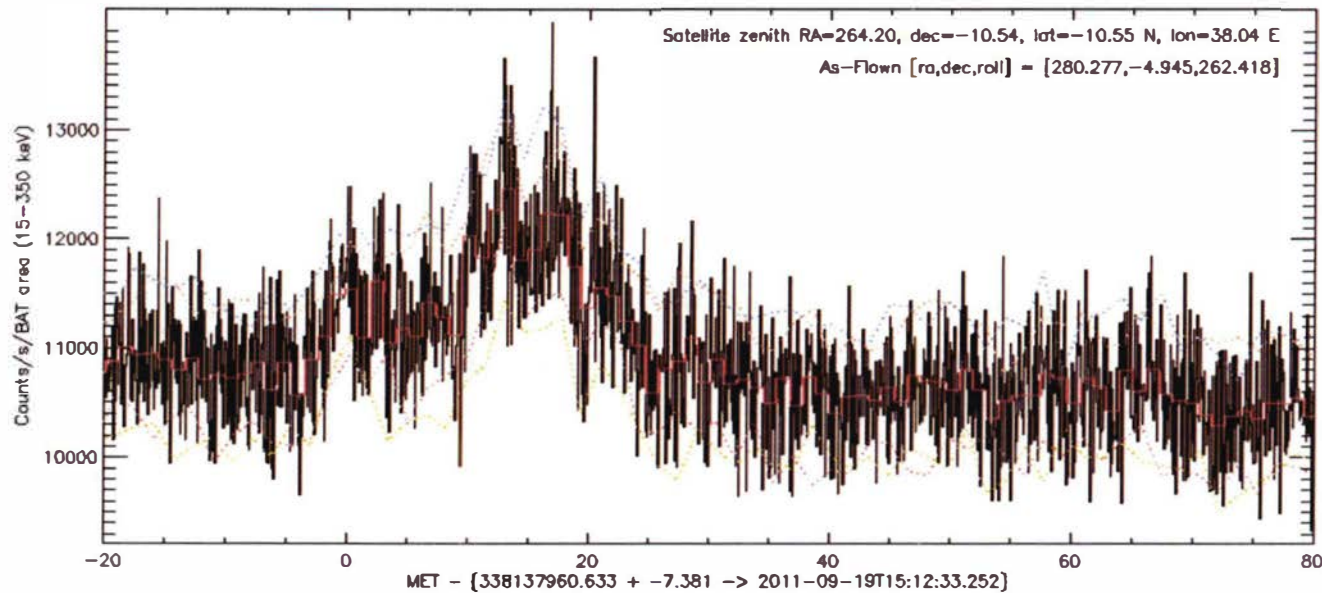
25- 150 keV



Subject: [Ipn] BAT lightcurve for trigger at 110919_1512
From: palmer+automatic_lightcurve@lanl.gov
Date: Mon, 19 Sep 2011 19:19:09 -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/110919_1512.png



```
% /usr/local/bin/swinfo -o 338137960.633
Time(MET + UTCF -> UT): 338137960.633 + -7.381 -> 2011-09-19T15:12:33.252
Swift Zenith(RA,dec): 264.20, -10.54
Swift Location(lon,lat,alt): 38.04 E, -10.55 N, 590 km
Obs Sequence Number: 00031863009
Obs Target Name: 1E 1841-045
Obs Date and Times: 2011-09-19 15:05:54 - 15:35:50
Obs Pointing(ra,dec,roll): 280.277, -4.945, 262.42
```

--
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/110919_1512_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110919_1512.png

/tmp/110919_1512.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

B

02/12/11

MESSENGER

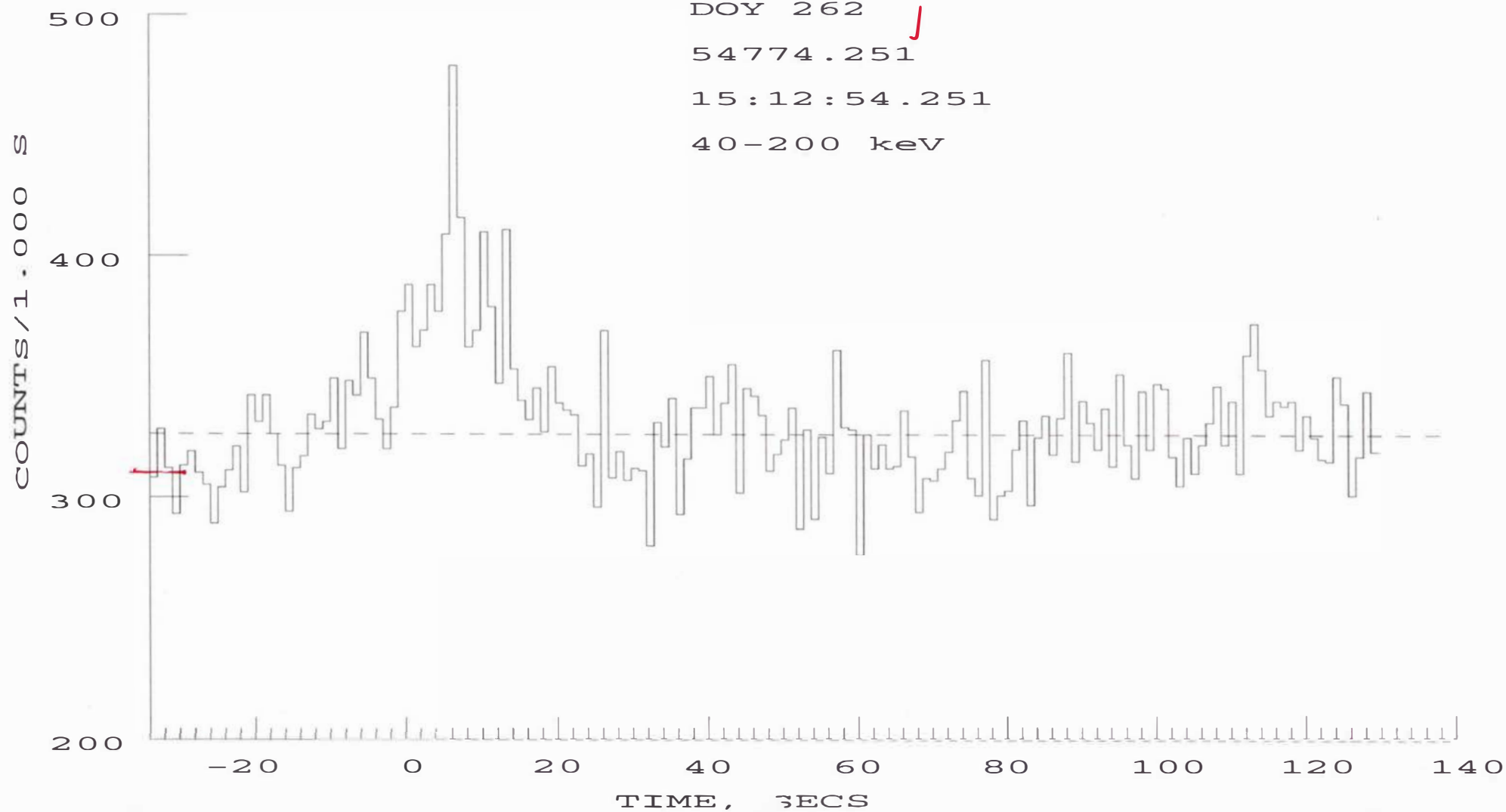
19/09/11

DOY 262

54774.251

15:12:54.251

40-200 keV



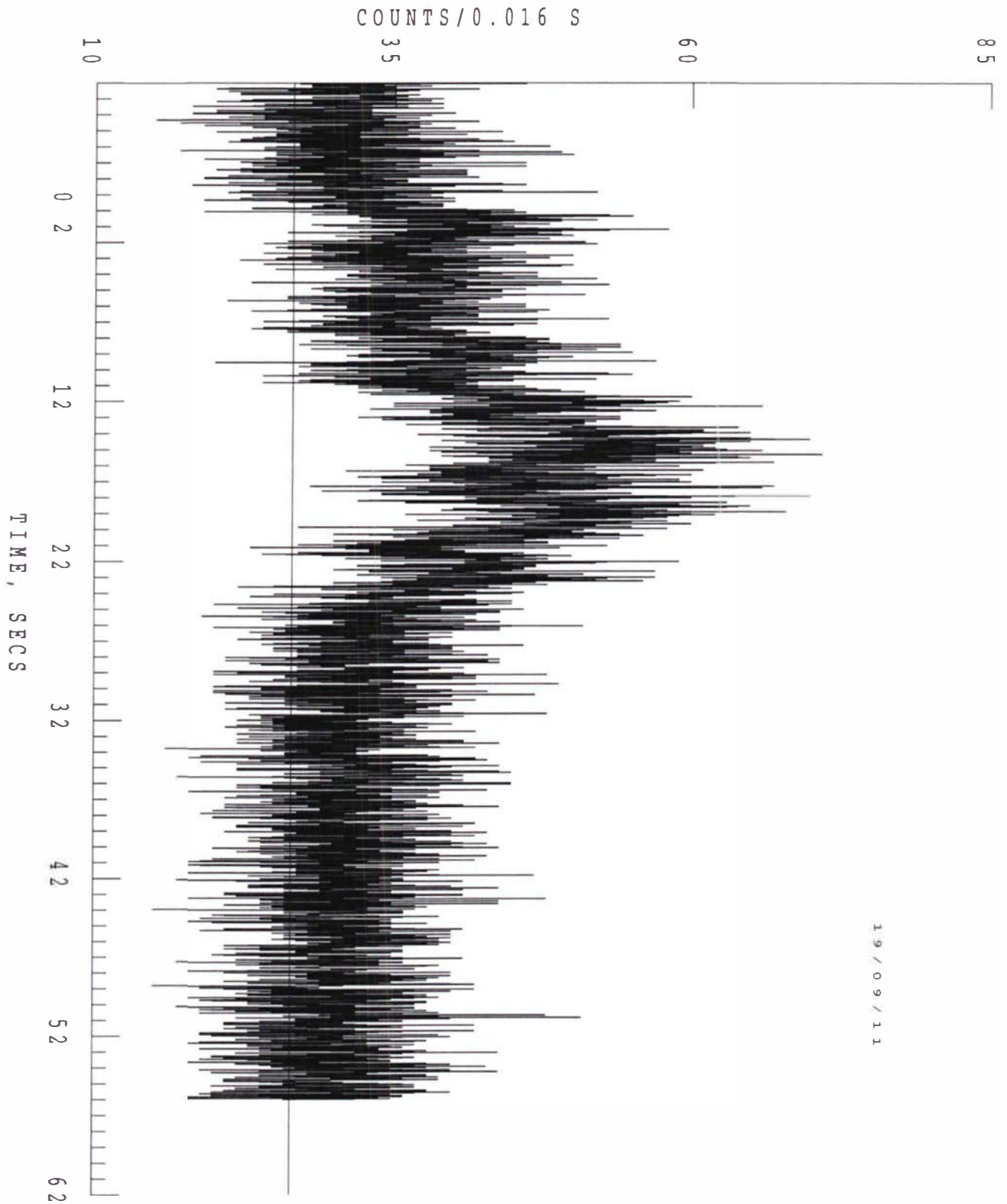
SUZAKU

19/09/11

54751.598

B

50 - 240 keV



GLAST

19/09/11

54735.784

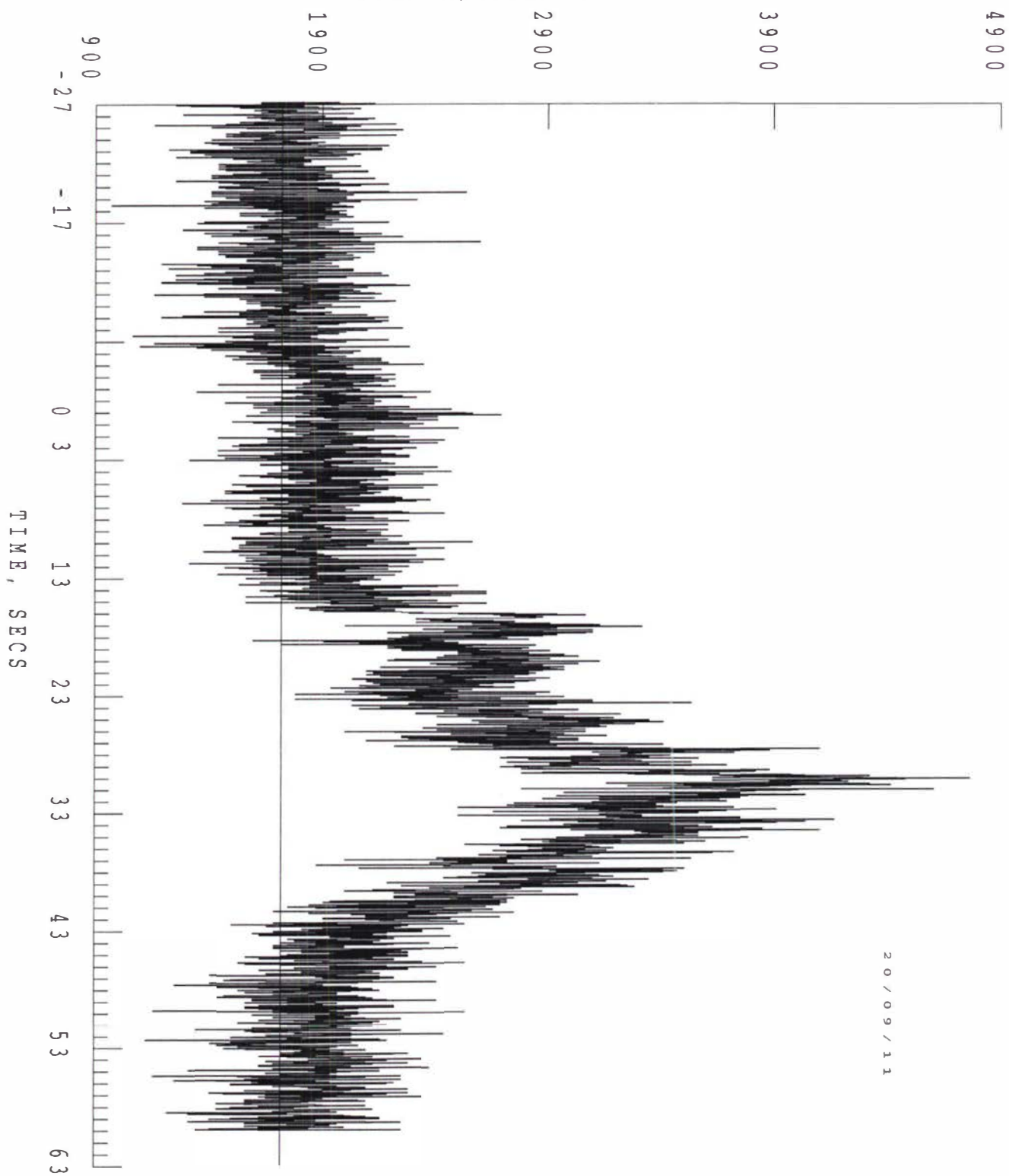
15:12:15

B

26- 293 keV

279.97 66.43 1.0

COUNTS/0.032 S



SUZAKU

19/09/11

59164.098

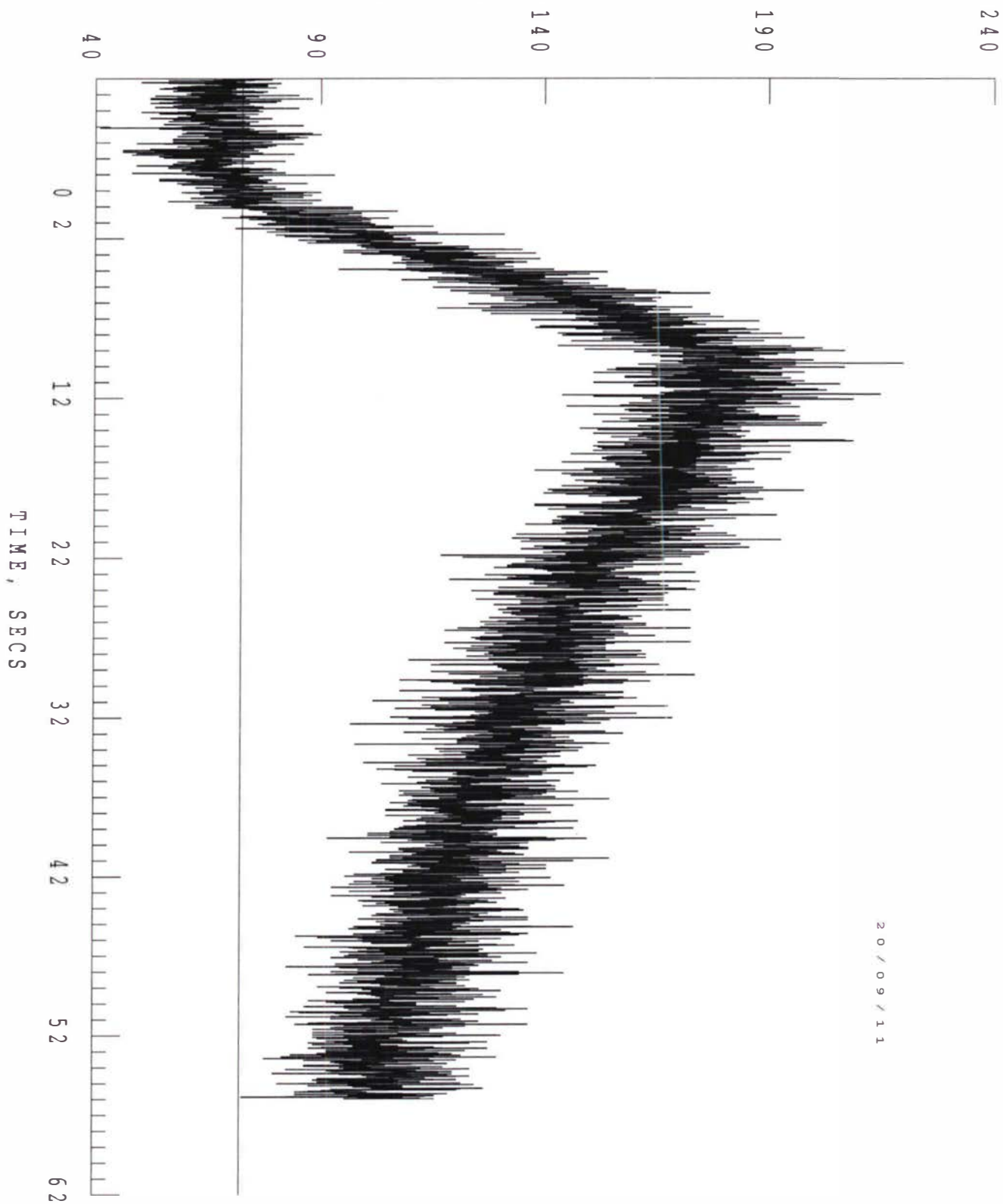
C

50 - 240 keV

16:26:04

Not in Suzaku list

COUNTS/0.016 S



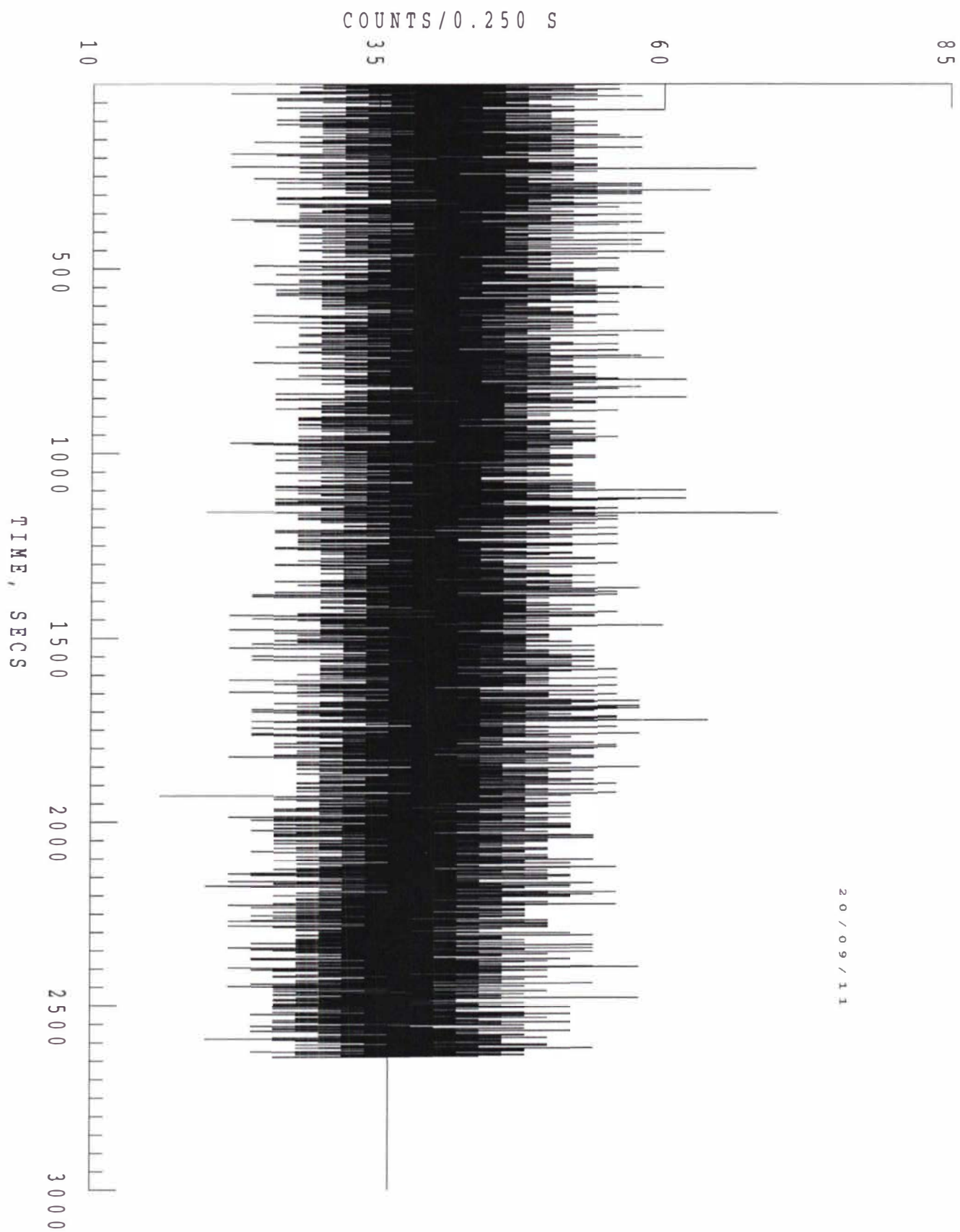
MS01

19/09/11

57803.305

50 - 3000 keV

C

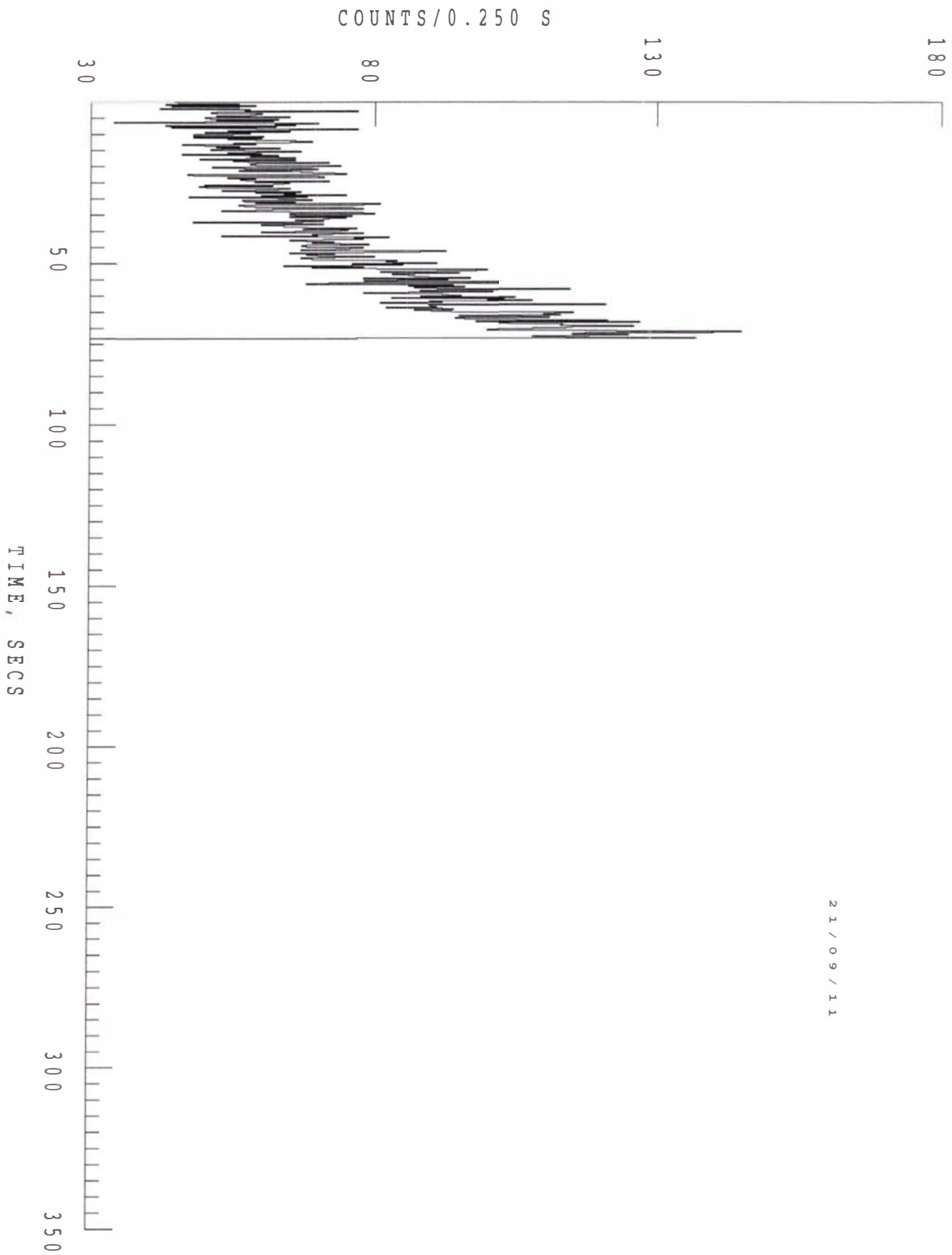


HESSI

19/09/11 59014.000 (SUZAKU_20110919_59164)

C

25- 150 keV

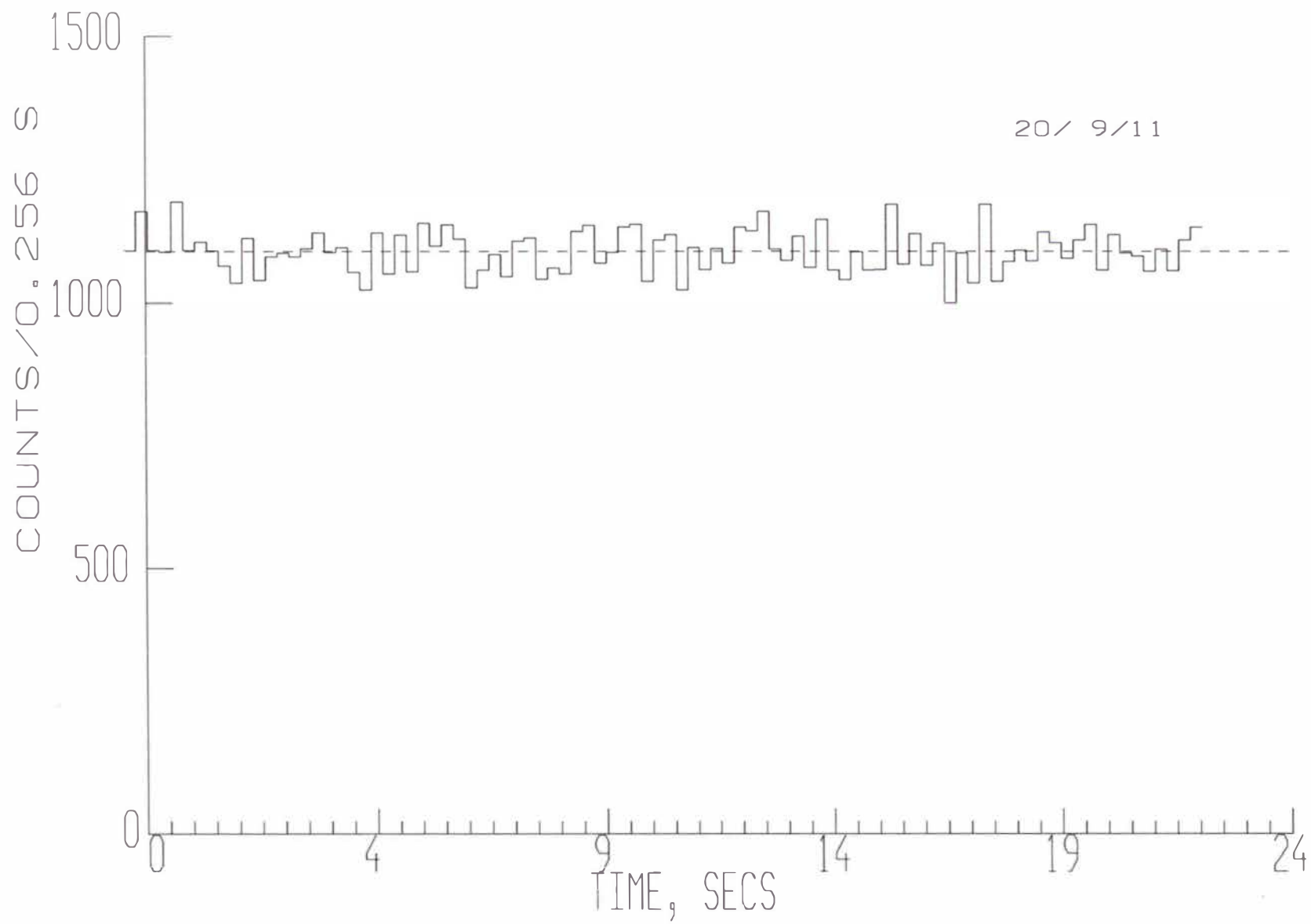


From vxw@capella2.gsfc.nasa.gov Mon Sep 19 14:17:49 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Mon, 19 Sep 2011 17:19:56 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: e5184dd4073e577d2c12865ba981c0d0a223e52a
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
NOTICE_DATE: Mon 19 Sep 11 21:19:55 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 503525, Seg_Num: 0
GRB_RA: 251.752d {+16h 47m 00s} (J2000),
251.966d {+16h 47m 52s} (current),
250.840d {+16h 43m 22s} (1950)
GRB_DEC: -45.843d {-45d 50' 33"} (J2000),
-45.863d {-45d 51' 47"} (current),
-45.754d {-45d 45' 12"} (1950)
GRB_DATE: 15823 TJD; 262 DOY; 11/09/19
GRB_TIME: 76571.52 SOD {21:16:11.52} UT
TRIGGER_INDEX: 10409
GRB_PHI: -167.74 [deg]
GRB_THETA: 10.33 [deg]
DELTA_TIME: 29.00 [sec]
TRIGGER_DUR: 0.064 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 13.96 [sigma]
MAGE_SIGNIF: 7.03 [sigma]
LC_URL: sw00503525000msb.lc
SUN_POSTN: 176.87d {+11h 47m 28s} +1.36d {+01d 21' 26"}
SUN_DIST: 80.68 [deg] Sun_angle= -5.0 [hr] (East of Sun)
MOON_POSTN: 77.76d {+05h 11m 01s} +22.82d {+22d 49' 04"}
MOON_DIST: 156.48 [deg]
MOON_ILLUM: 57 [%]
GAL_COORDS: 339.55, -0.39 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 256.26, -23.27 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS: The next comments were copied from the BAT_POS Notice:
COMMENTS: This is a rate trigger.
COMMENTS: A point_source was found.
COMMENTS: This does not match any source in the on-board catalog.
COMMENTS: This does not match any source in the ground catalog.
COMMENTS: This is a GRB.
COMMENTS: This trigger occurred at longitude,latitude = 223.06,-19.13 [de

PSR J1647-4552
(Magnetar)

SWIFT 19/09/11 76571.530
25- 100 keV

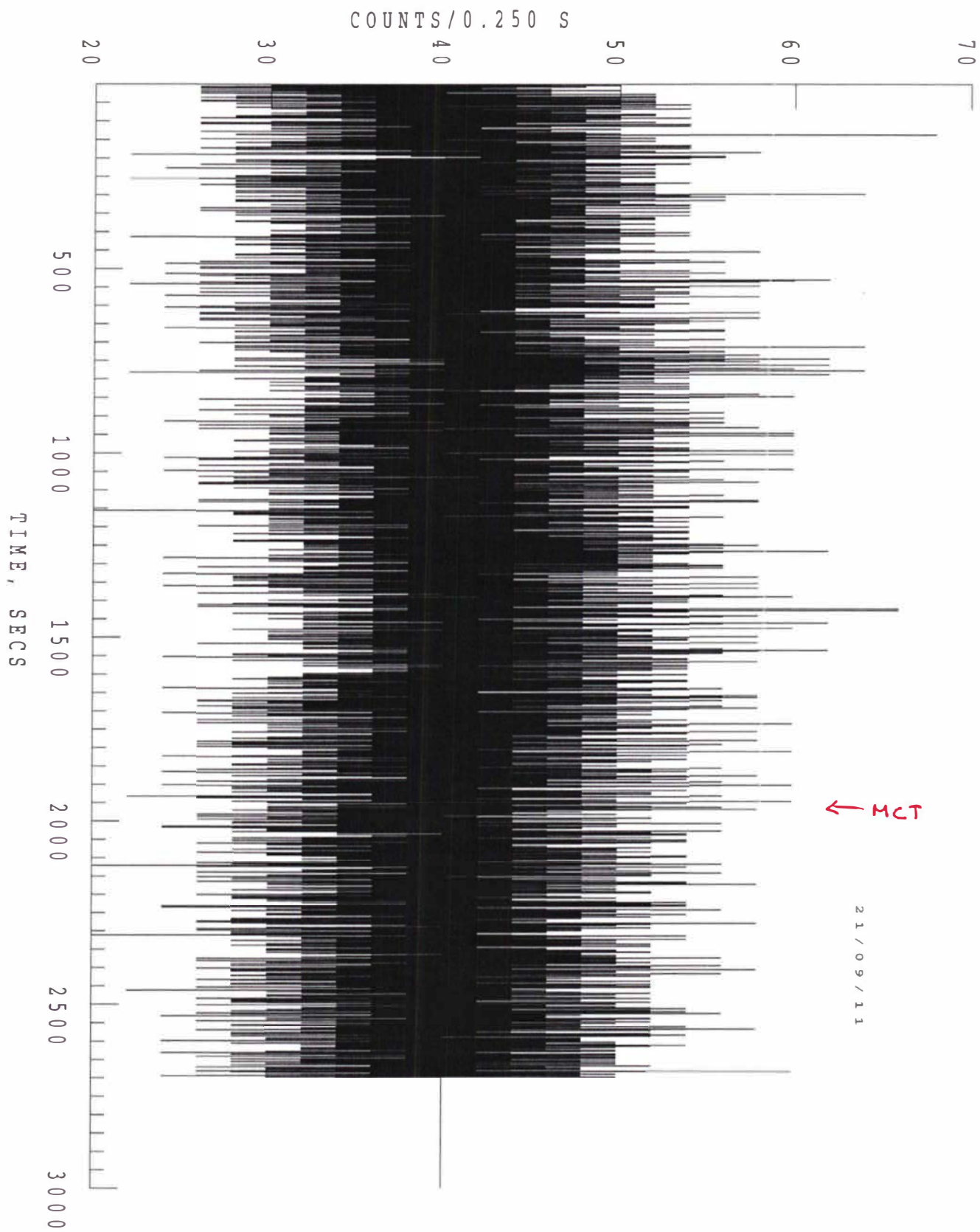


MS01

19/09/11

75202.998

50 - 3000 keV

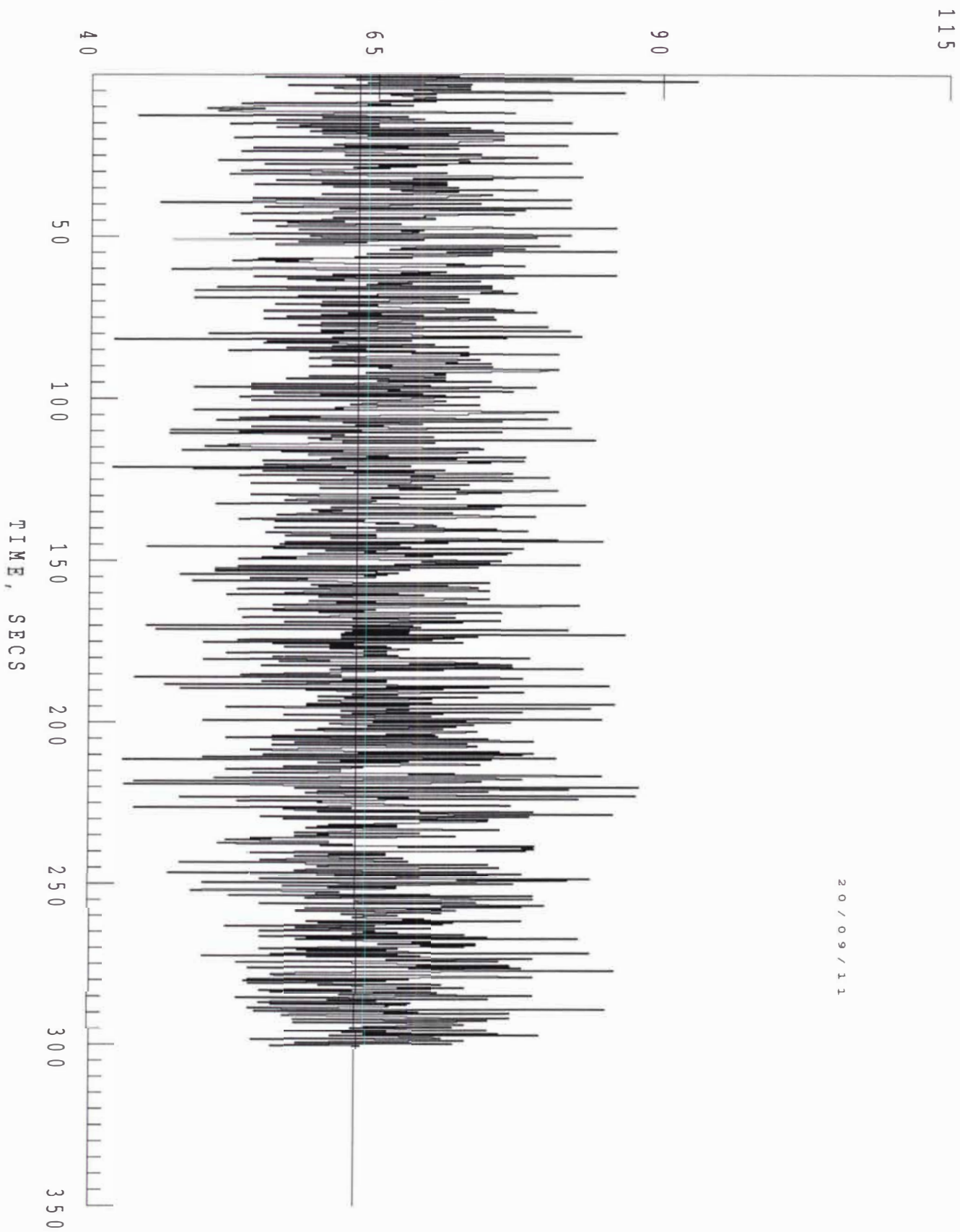


HESSI

19/09/11 76420.000 (SWIFT_20110919_76571)

25- 150 keV

COUNTS/0.250 S



From vxw@capella2.gsfc.nasa.gov Mon Sep 19 14:32:10 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Mon, 19 Sep 2011 17:34:16 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 5509542be49ed262267d346f7af98ef765d3bcc7
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
NOTICE_DATE: Mon 19 Sep 11 21:33:48 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 503526, Seg_Num: 0
GRB_RA: 251.782d {+16h 47m 08s} (J2000),
251.997d {+16h 47m 59s} (current),
250.871d {+16h 43m 29s} (1950)
GRB_DEC: -45.872d {-45d 52' 19"} (J2000),
-45.892d {-45d 53' 32"} (current),
-45.783d {-45d 46' 58"} (1950)
GRB_DATE: 15823 TJD; 262 DOY; 11/09/19
GRB_TIME: 77144.30 SOD {21:25:44.30} UT
TRIGGER_INDEX: 10209
GRB_PHI: 142.69 [deg]
GRB_THETA: 0.04 [deg]
DELTA_TIME: 31.00 [sec]
TRIGGER_DUR: 0.016 [sec]
SOLN_STATUS: 0xD
RATE_SIGNIF: 21.51 [sigma]
MAGE_SIGNIF: 9.58 [sigma]
LC_URL: sw00503526000msb.lc
SUN_POSTN: 176.88d {+11h 47m 30s} +1.35d {+01d 21' 13"}
SUN_DIST: 80.69 [deg] Sun_angle= -5.0 [hr] (East of Sun)
MOON_POSTN: 77.88d {+05h 11m 32s} +22.82d {+22d 49' 02"}
MOON_DIST: 156.43 [deg]
MOON_ILLUM: 57 [%]
GAL_COORDS: 339.54, -0.43 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 256.29, -23.30 [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 matches a source in the on-board catalog.
COMMENTS: This does not match any source in the ground catalog.
COMMENTS: This is not a GRB.
COMMENTS: This trigger occurred at longitude,latitude = 258.22,-19.76 [de

PSR J1647-4552

From gcnirc@capella2.gsfc.nasa.gov Mon Sep 19 14:36:54 2011
X-Barracuda-Envelope-From: gcnirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcnirc@capella2.gsfc.nasa.gov>
Subject: Swift detection of short bursts from PSR J1647-4552
To: khurley@ssl.berkeley.edu
Date: Mon, 19 Sep 2011 17:39:01 -0400 (EDT)
X-Ucb-Scan-Signature: 5a41ed5a0be0ec5901eb2be4a73efcb8e3c8d601
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: 12359
SUBJECT: Swift detection of short bursts from PSR J1647-4552
DATE: 11/09/19 21:39:00 GMT
FROM: David Burrows at PSU/Swift <burrows@astro.psu.edu>

W. H. Baumgartner (GSFC/UMBC), D. N. Burrows (PSU),
J. R. Cummings (NASA/UMBC), N. Gehrels (NASA/GSFC), C. Gronwall (PSU),
S. T. Holland (CRESST/USRA/GSFC), J. A. Kennea (PSU),
V. Mangano (INAF-IASFPA), C. B. Markwardt (NASA/GSFC),
F. E. Marshall (NASA/GSFC), J. L. Racusin (NASA/GSFC),
B. Sbarufatti (INAF-OAB/IASFPA), E. Sonbas (GSFC/USRA/Adiyaman Univ.)
and T. N. Ukwatta (MSU) report on behalf of the Swift Team:

At 21:16:11 UT, the Swift Burst Alert Telescope (BAT) triggered and located PSR J1647-4552 (trigger=503525). Swift slewed immediately to the position. Approximately ten minutes later (21:25:44 UT), BAT triggered again on same position (trigger=503526). The first BAT on-board calculated location is RA, Dec 251.752, -45.843 which is

RA(J2000) = 16h 47m 00s

Dec(J2000) = -45d 50' 33"

with an uncertainty of 3 arcmin (radius, 90% containment, including systematic uncertainty). The BAT light curve of the first trigger (503525) showed a single-peaked structure with a duration of about 0.25 sec. The peak count rate was ~2500 counts/sec (15-350 keV), at ~0 sec after the trigger. The second burst had a similar burst intensity and time profile.

The XRT began observing the field at 21:17:07.5 UT, 56.0 seconds after the BAT trigger. Using promptly downlinked data we find an X-ray source located at RA, Dec 251.79387, -45.87095 which is equivalent to:

RA(J2000) = 16h 47m 10.53s

Dec(J2000) = -45d 52' 15.4"

with an uncertainty of 3.9 arcseconds (radius, 90% containment). This location is 145 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>. This position is 3.5 arcseconds from that of a known X-ray source: CXOU J164710.2-455216/PSR J1647-4552, a known magnetar (e.g. Woods et al., 2011, ApJ, 726, 37).

A power-law fit to a spectrum formed from promptly downlinked event data gives a column density in excess of the Galactic value ($1.88 \times 10^{22} \text{ cm}^{-2}$, Kalberla et al. 2005), with an excess column of $2.5^{+2.00}_{-1.60} \times 10^{22} \text{ cm}^{-2}$ (90% confidence).

UVOT took a finding chart exposure of 150 seconds with the White filter starting 60 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 none of the XRT error circle. The 8'x8' region for the list of sources generated

on-board covers 100% of the XRT error circle. No correction has been made for the large, but uncertain extinction expected.

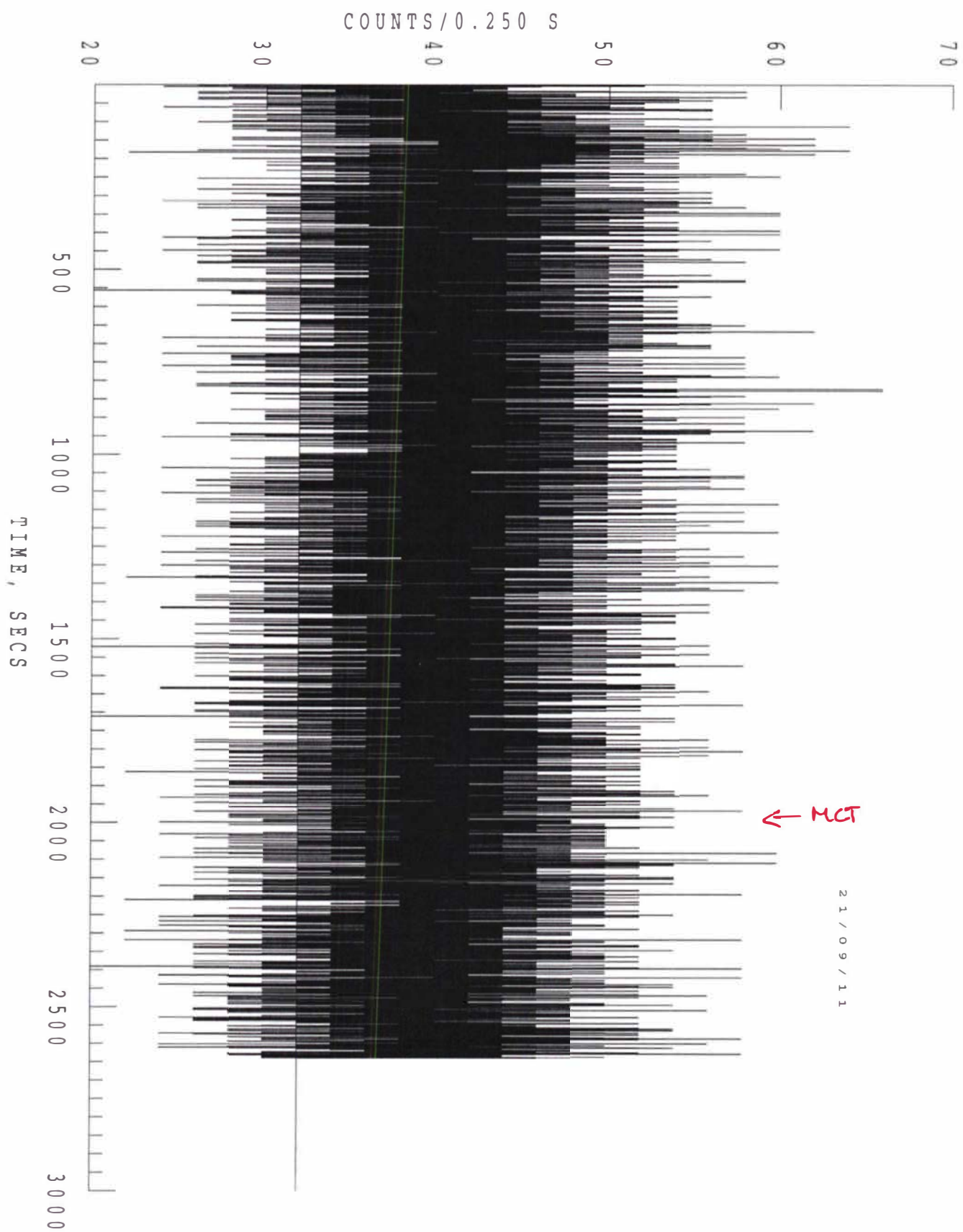
It appears that this PSR is entering an SGR-like phase of activity.

MS01

19/09/11

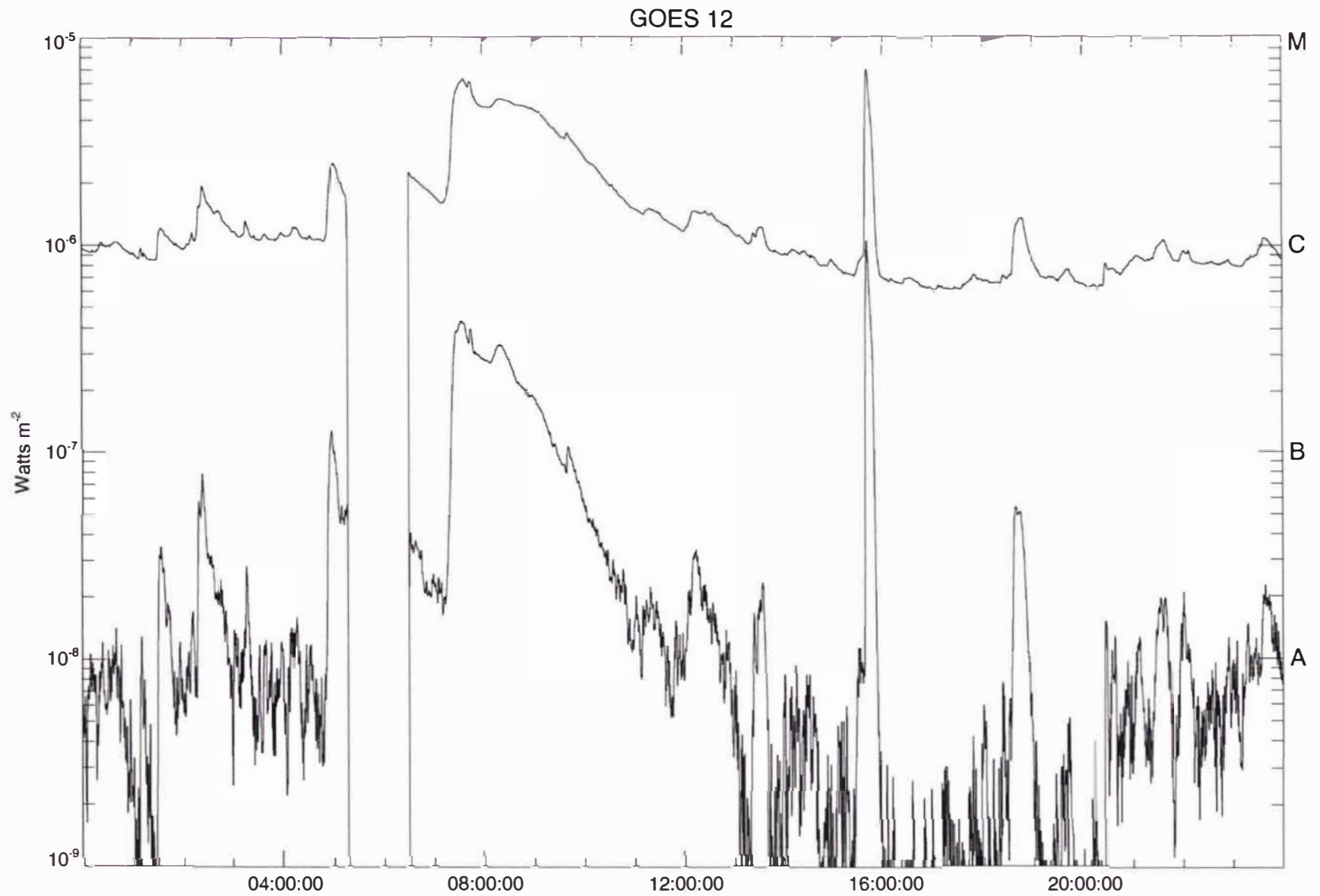
75802.993

50 - 3000 keV



From williams@gammaburst.ssl.berkeley.edu Sat Sep 24 23:04:43 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Sat, 24 Sep 2011 23:04:10 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for SWIFT 20110919 77144
X-Ucb-Scan-Signature: 8dcccfab3f496fe97818cb2613dbbbc36862829
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 24-Sep-2011 23:05:50.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
No Eclipse
Time Range Partially in non-SAA data gap
No Data Available For This Time Range
Do Not Retry



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

Plot created: 11/09/22, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

20/09/11

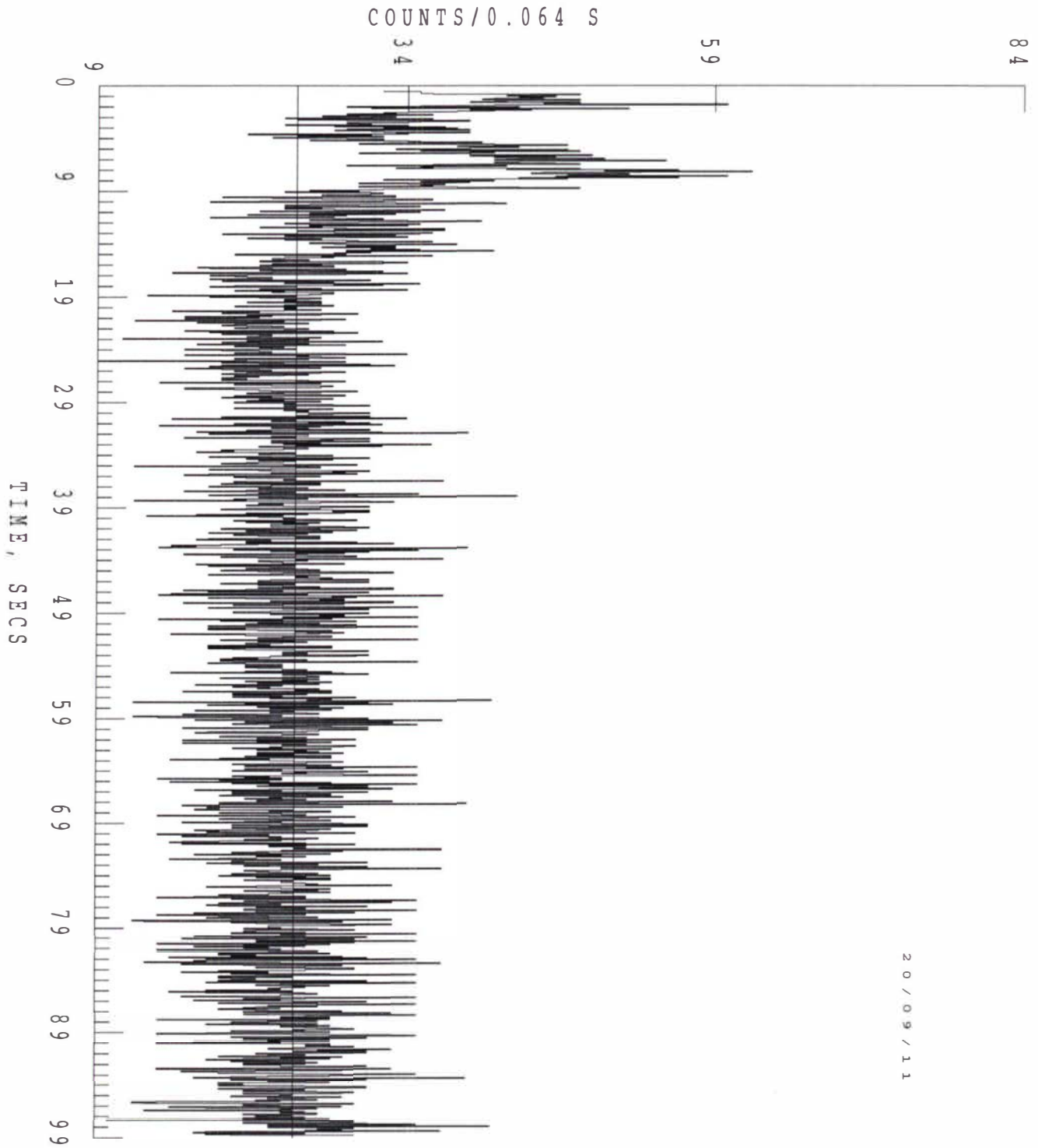
24486.021

06:48:06

A

50 - 200 keV

Solar



KONUS HRES 20110920 24486

TRIGGER TIME: 20/09/11 DOY 263 Julian 2455825.78340 UT = 06.802 06:48:06 (24486.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

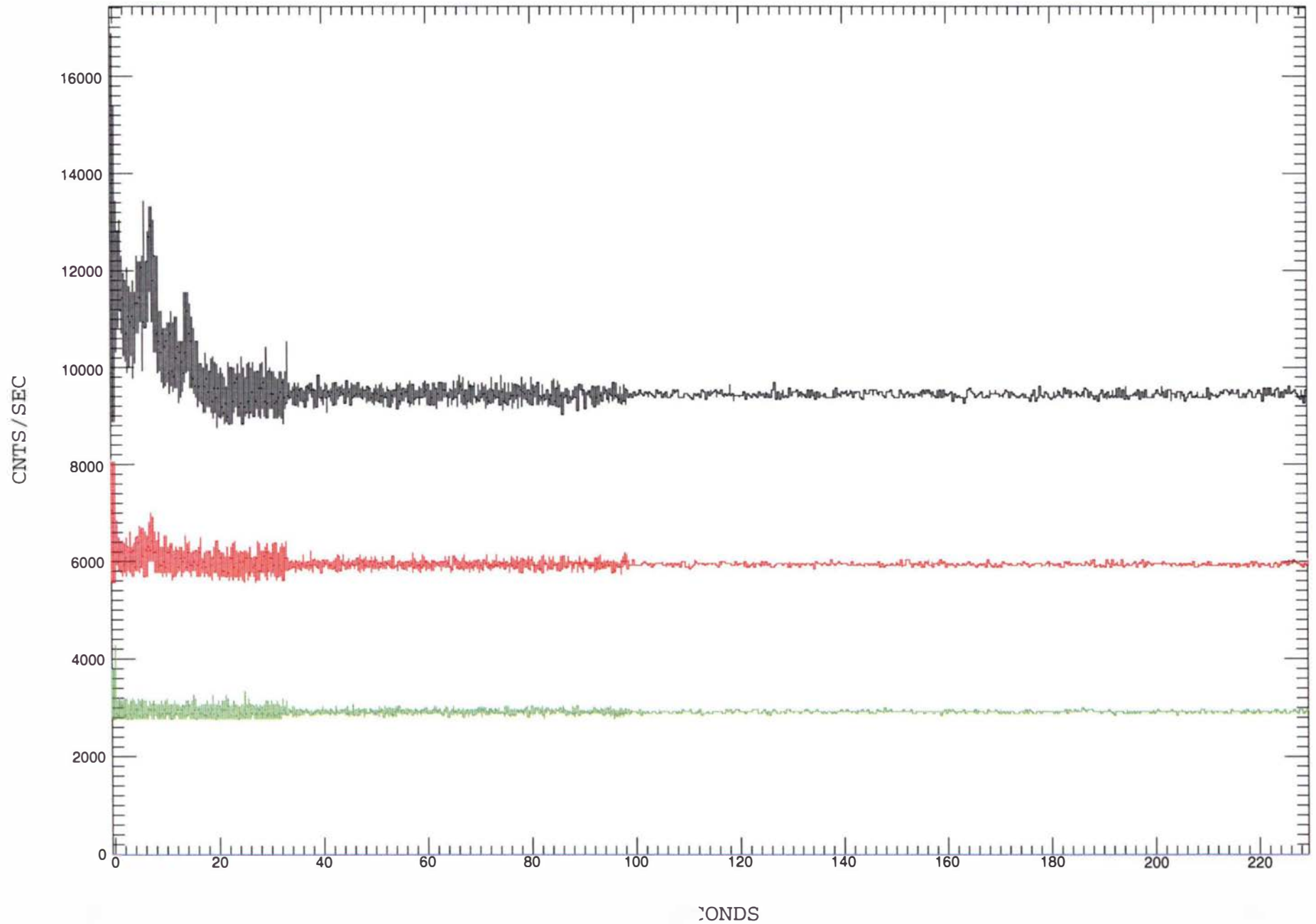
Chan 4 : [> 10 MeV]

Channel 1 + 8400

Channel 2 + 5600

Channel 3 + 2800

Channel 4 + 0



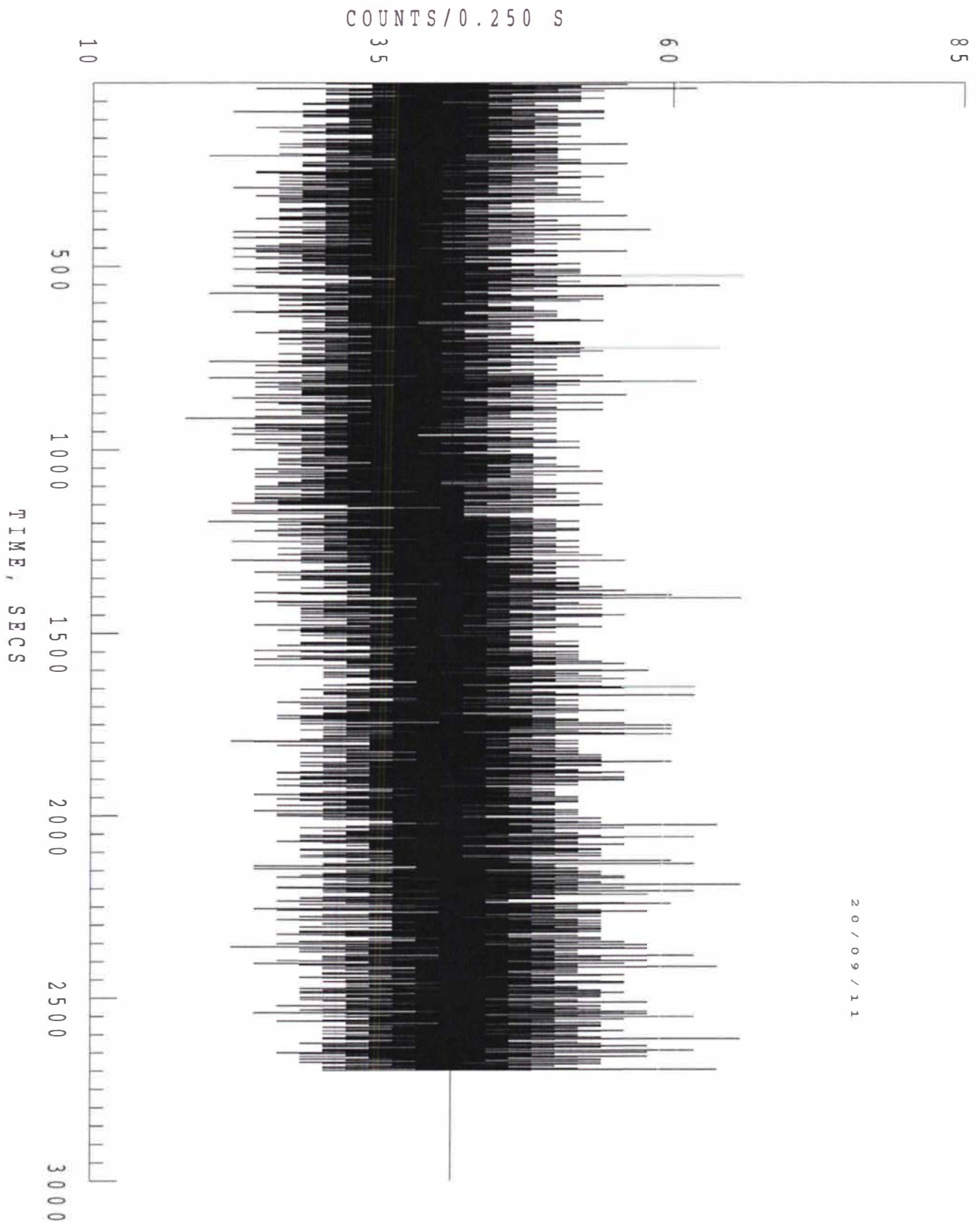
MS01

20/09/11

23122.412

A

50 - 3000 keV



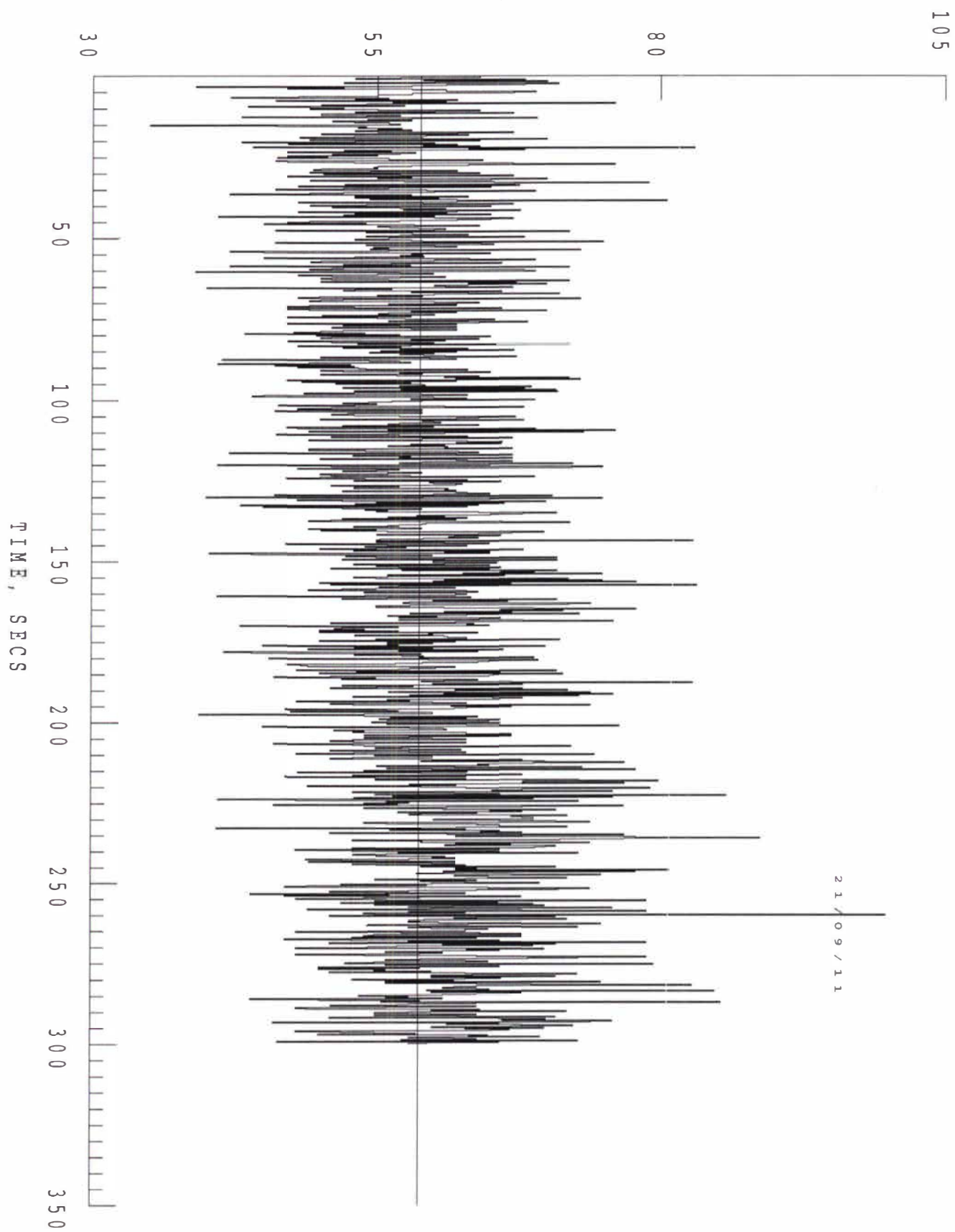
HESSI

20/09/11 24336.000 (KONUS2_20110920_24486)

A

25- 150 keV

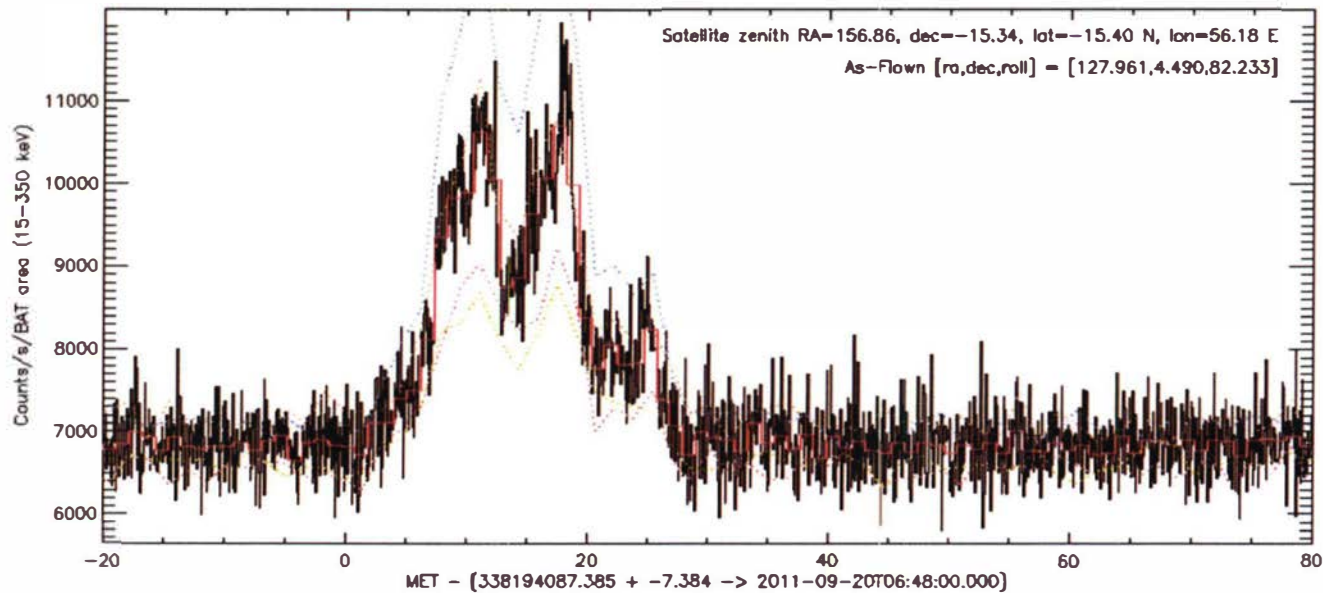
COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 110920_0648
From: palmer+automatic_lightcurve@lanl.gov
Date: Tue, 20 Sep 2011 19:53:29 -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/110920_0648.png



```
% /usr/local/bin/swinfo -o 338194087.384
Time(MET + UTCF -> UT):      338194087.385 + -7.384 -> 2011-09-20T06:48:00.000
Swift Zenith(RA,dec):        156.86, -15.34
Swift Location(lon,lat,alt):  56.18 E, -15.40 N, 577 km
Obs Sequence Number:         00038144001
Obs Target Name:              HB89 0829+046
Obs Date and Times:          2011-09-20 06:37:18 - 06:49:53
Obs Pointing(ra,dec,roll):    127.961, 4.490, 82.23
```

--
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/110920_0648_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110920_0648.png

/tmp/110920_0648.png	Content-Type: image/png Content-Encoding: base64
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Part 1.4	Content-Type: text/plain
	Content-Encoding: 7bit

Part 1.5

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

Date: Jul 22 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?

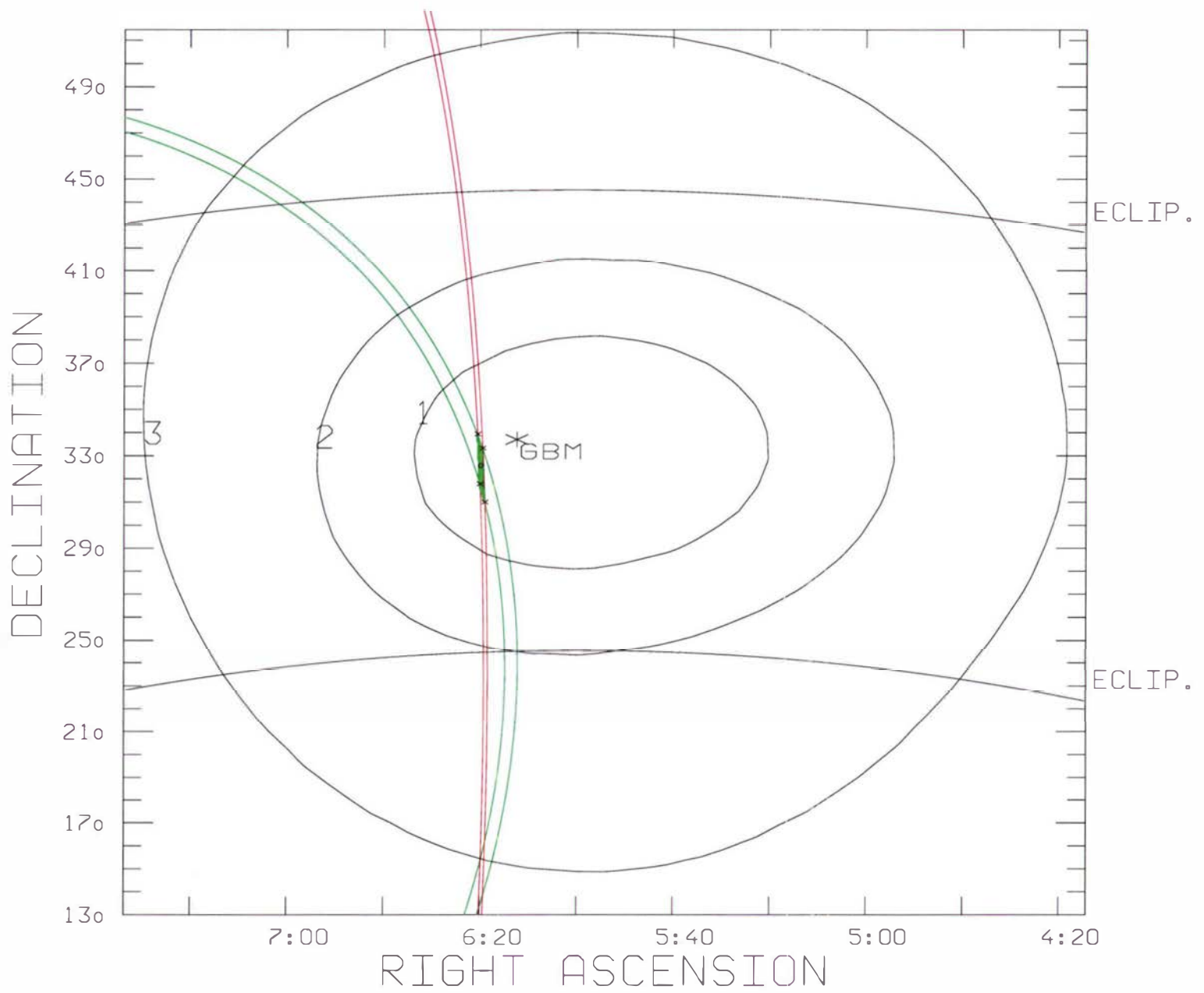
7. For INTEGRAL events

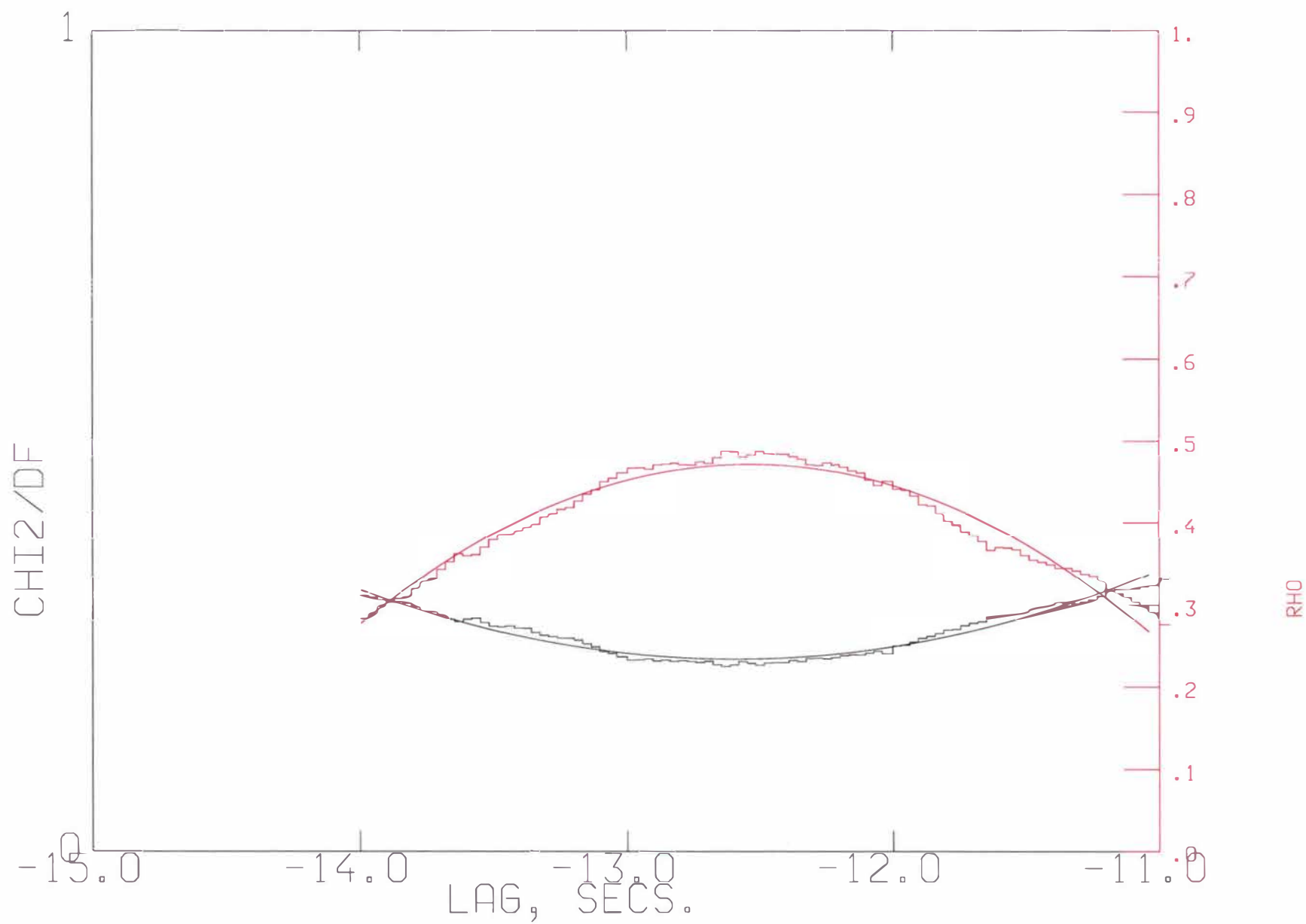
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

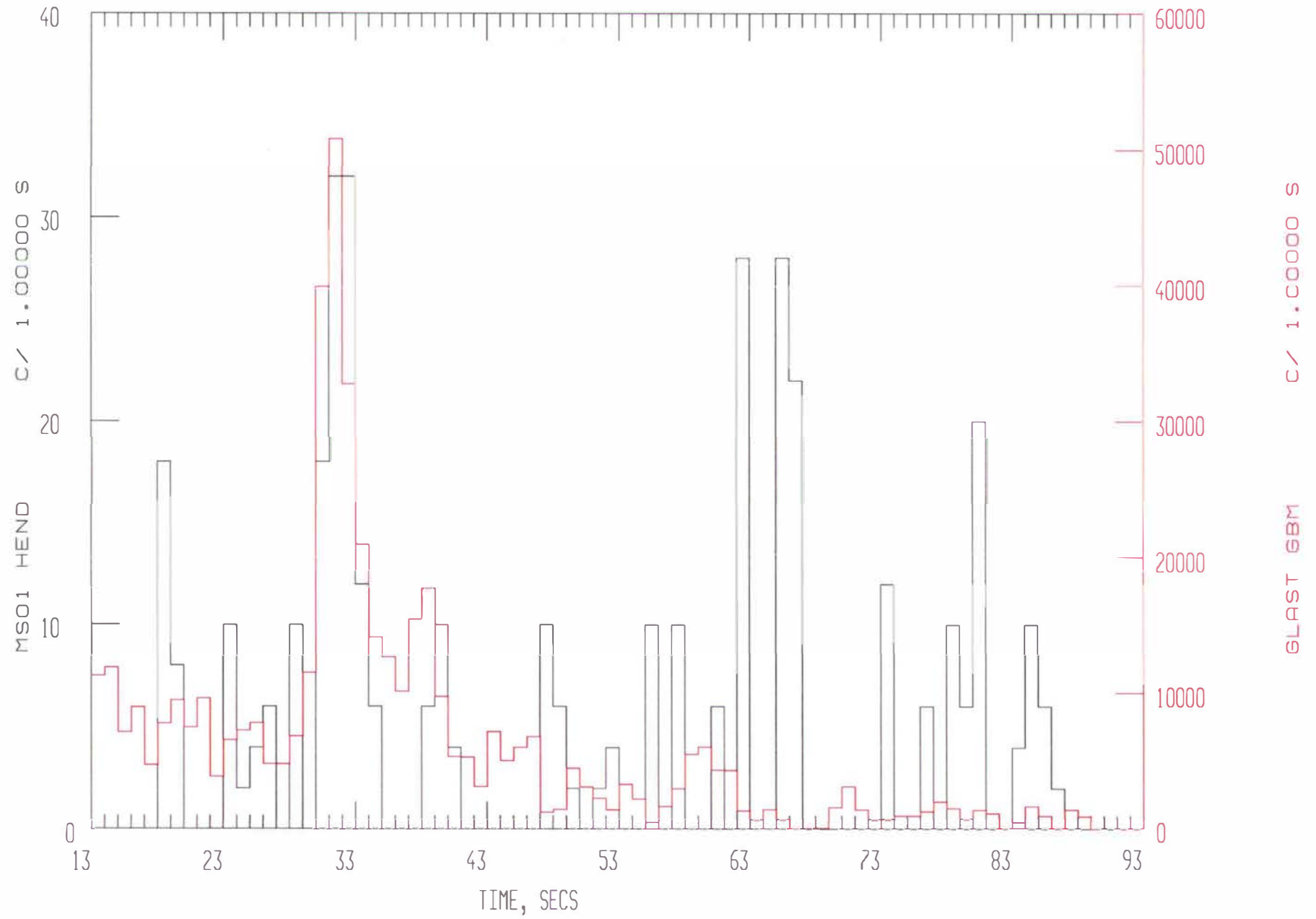
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

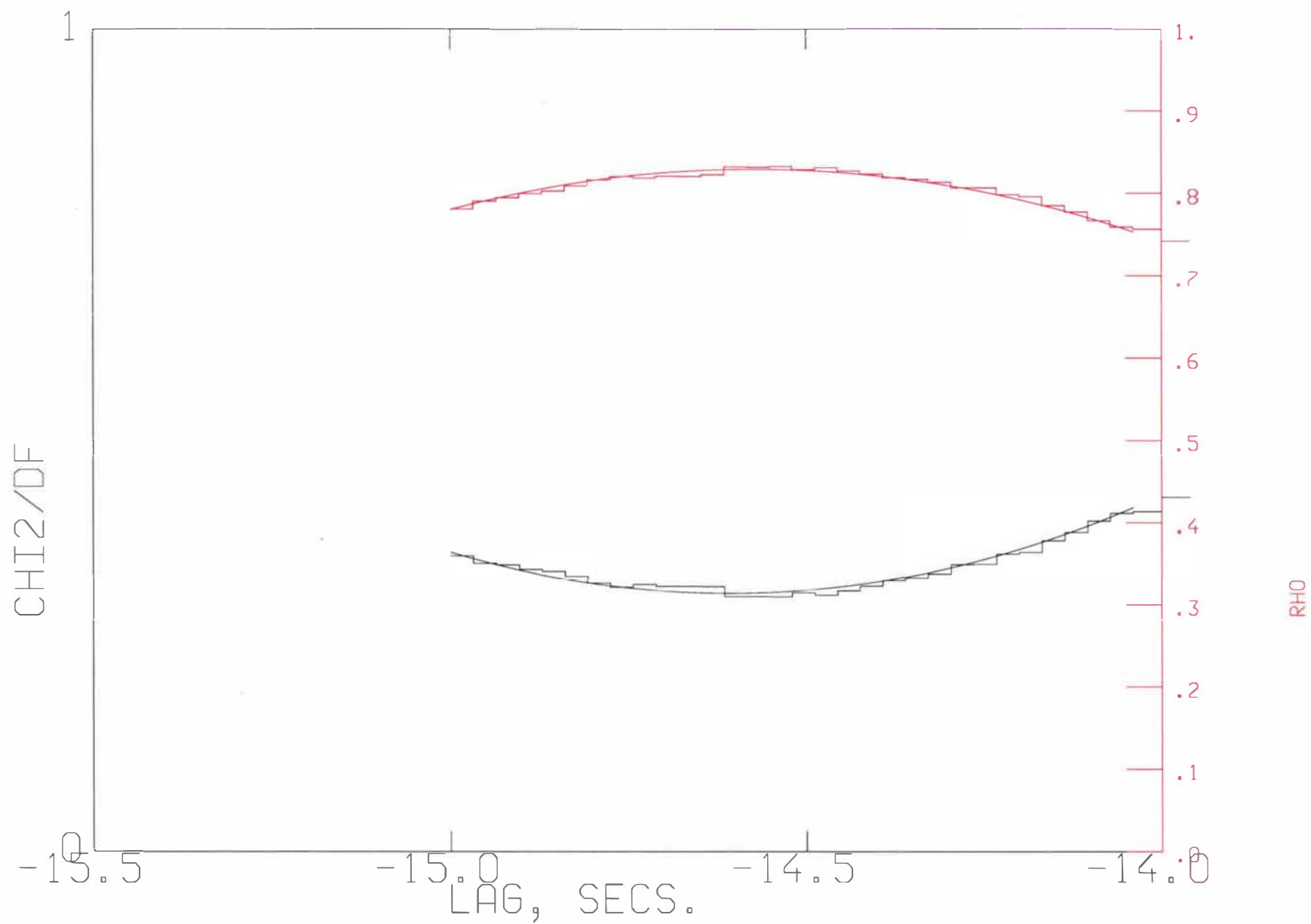
GRB110920 ~29236 S

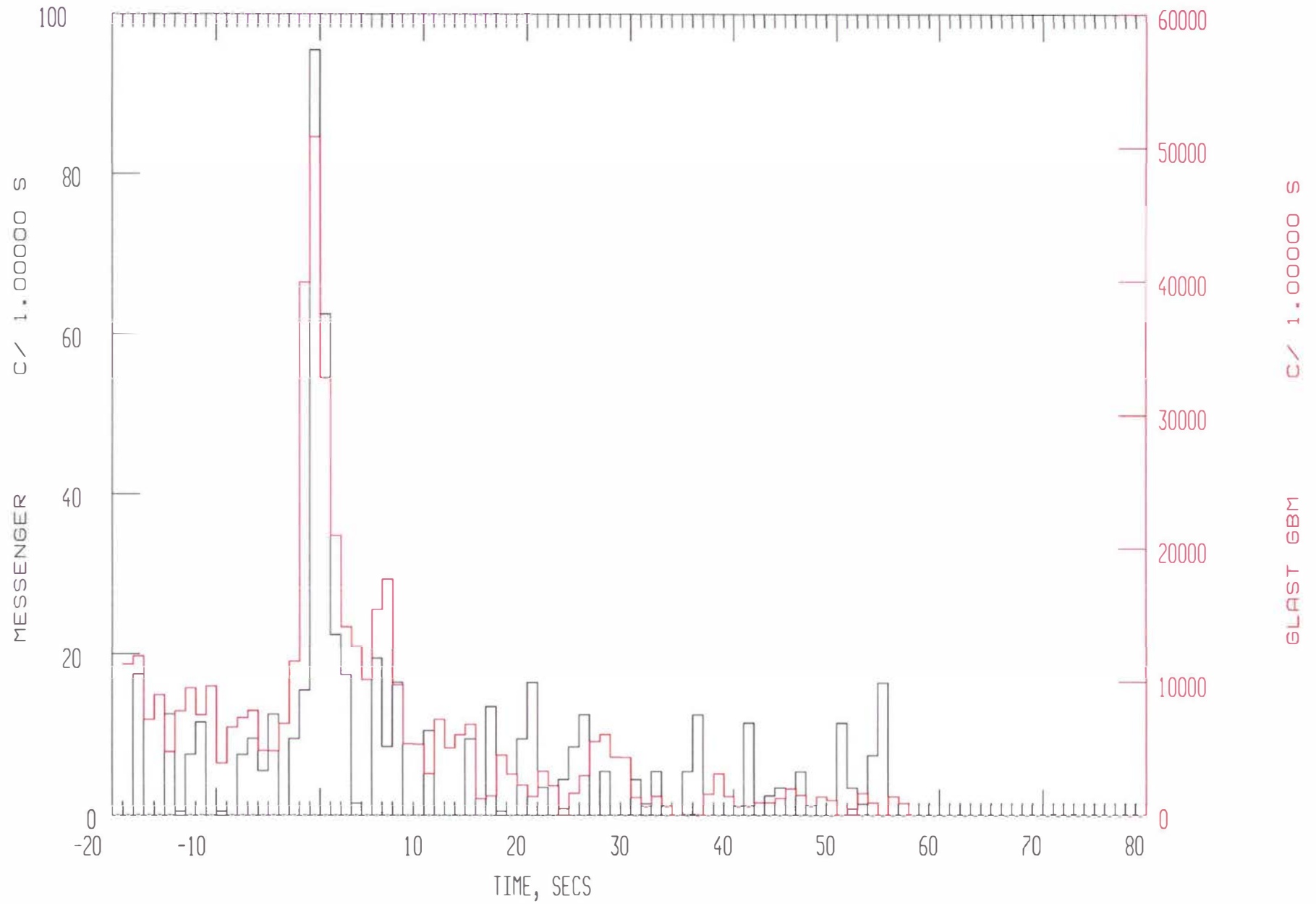
22/07/2016











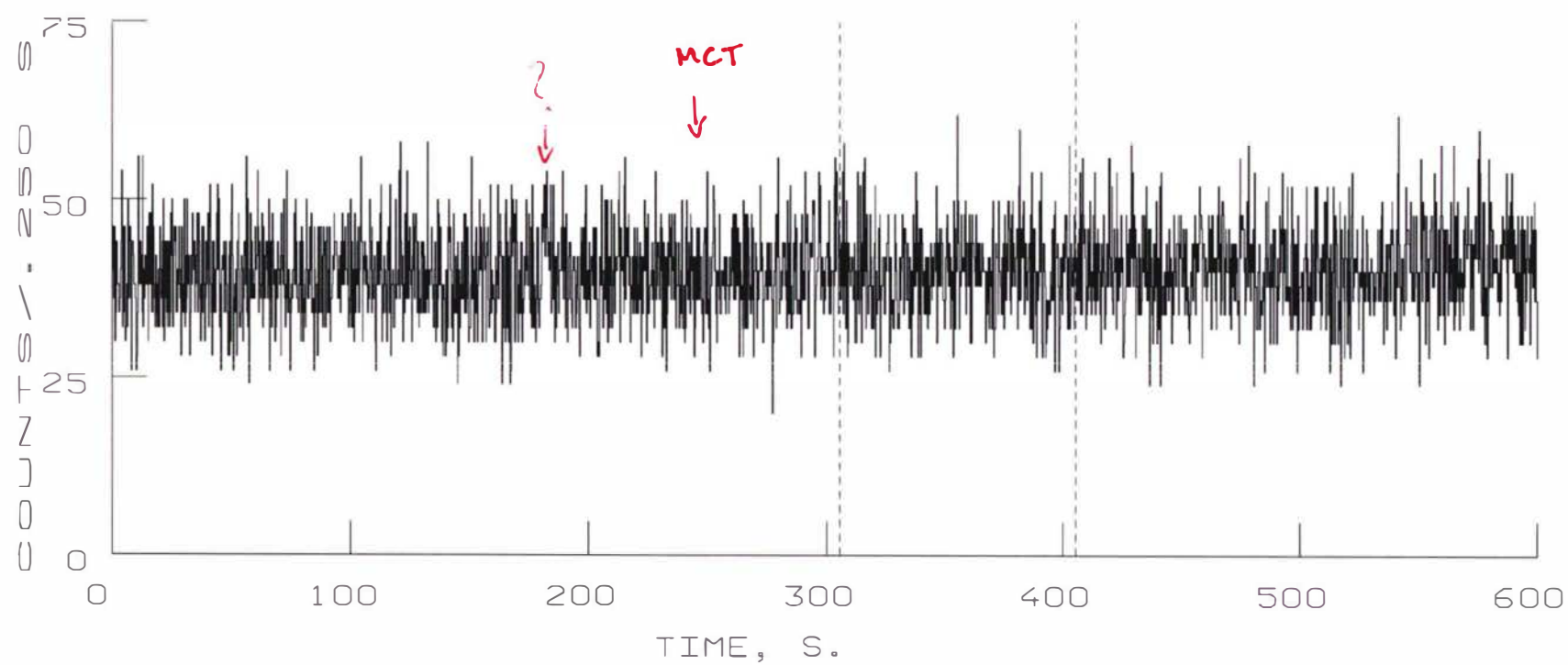
MS01 HEND

22/07/2016

20/09/2011 28222.314 s

50-3000 keV

MAXIMUM



GLAST

20/09/11

29236.410

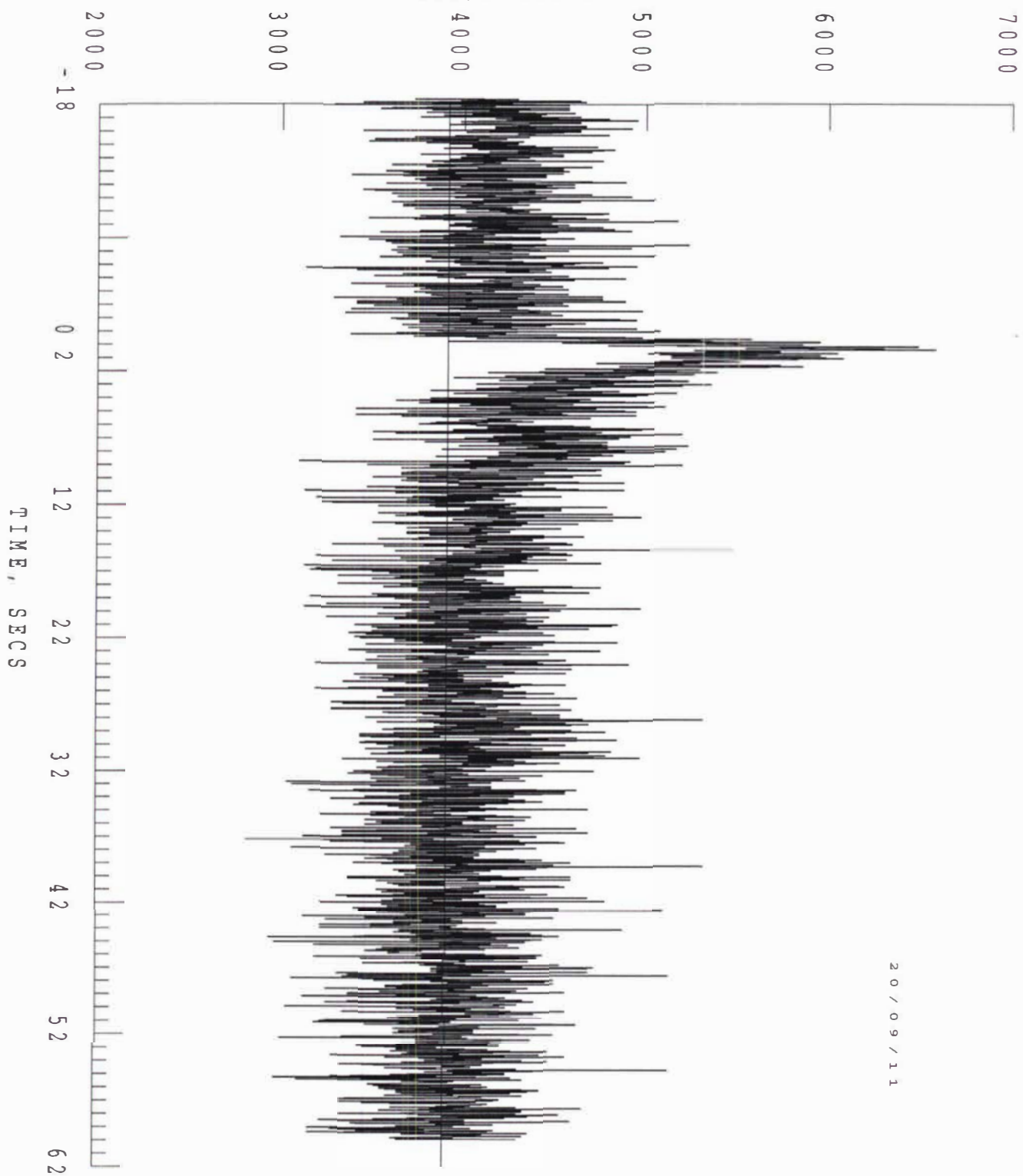
08:07:16

B

26- 293 keV

87.57 38.76 5.0

COUNTS/0.032 S



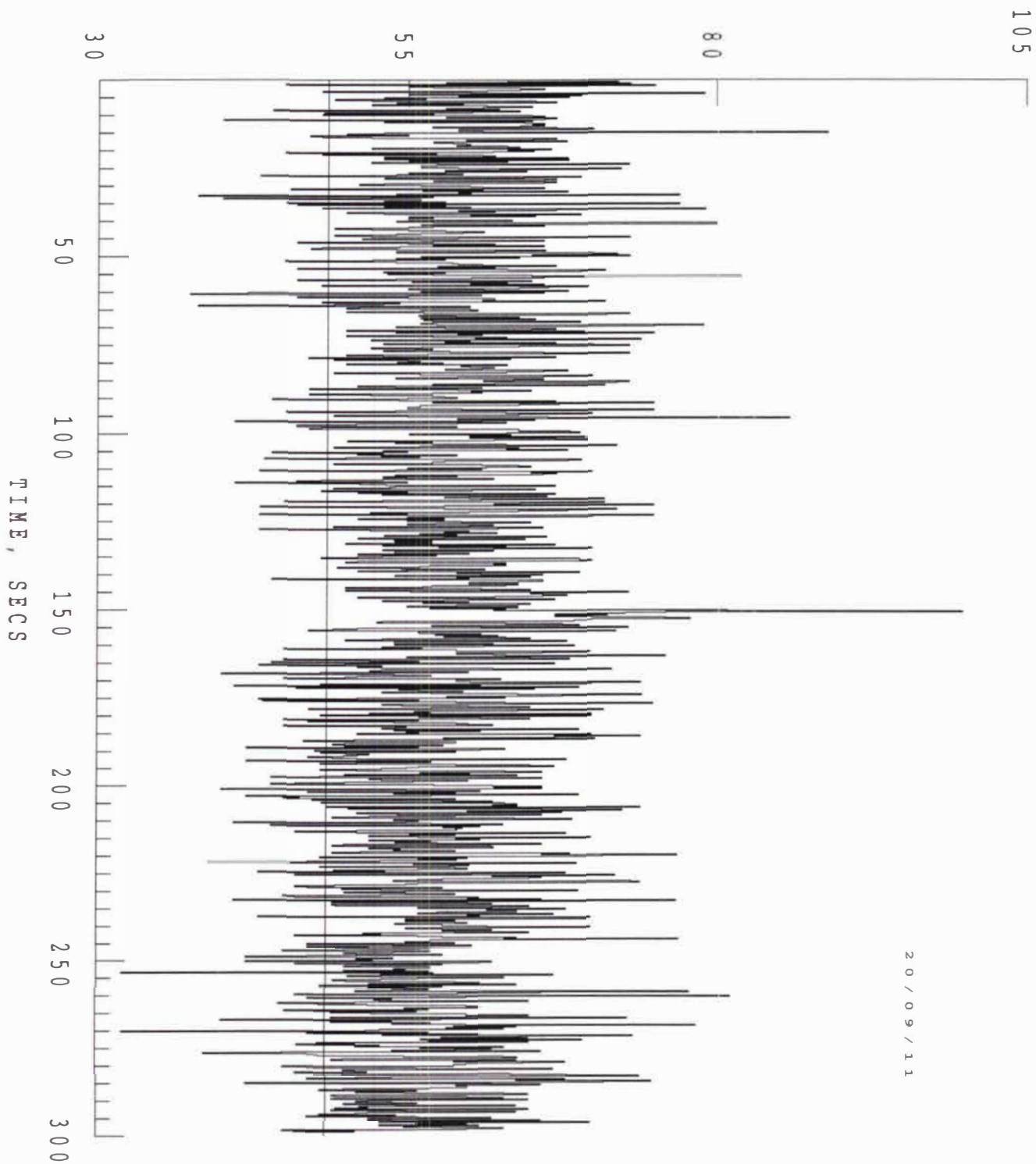
HESSI

20/09/11 29086.000 (GLAST_20110920_29236)

AD

25 - 150 keV

COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 110920_0807

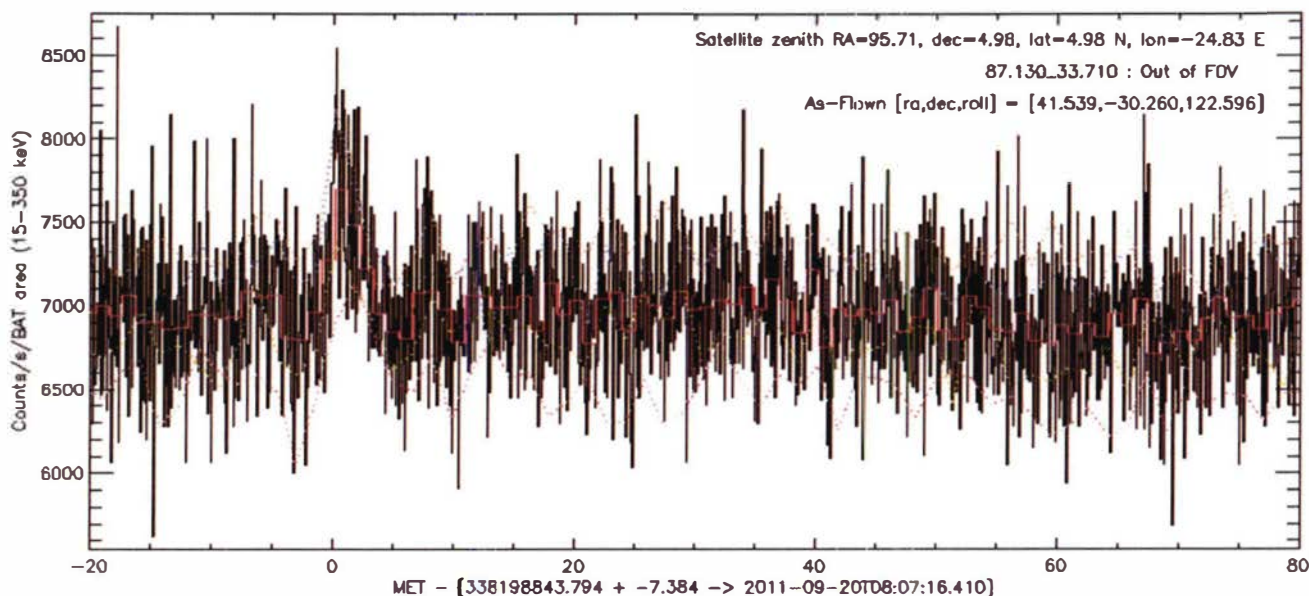
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 20 Sep 2011 06:42:30 -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/110920_0807.png



```
% /usr/local/bin/swinfo -o 338198843.794 -s 87.083_33.667
Time(MET + UTCF -> UT): 338198843.794 + -7.384 -> 2011-09-20T08:07:16.410
Swift Zenith(RA,dec): 95.71, 4.98
Swift Location(lon,lat,alt): -24.83 E, 4.98 N, 579 km
Obs Sequence Number: 00045597002
Obs Target Name: NGC 1097
Obs Date and Times: 2011-09-20 08:05:54 - 08:13:49
Obs Pointing(ra,dec,roll): 41.539, -30.260, 122.60
87.083_33.667_imageloc (boresight_dist, angle): (77, -175)
87.083_33.667_exposure (cm^2 cos adjusted): 0
87.083_33.667_altitude: 84 (up)
```

```
% /usr/local/bin/swinfo -o 338198843.794 -s 87.130_33.710
Time(MET + UTCF -> UT): 338198843.794 + -7.384 -> 2011-09-20T08:07:16.410
Swift Zenith(RA,dec): 95.71, 4.98
Swift Location(lon,lat,alt): -24.83 E, 4.98 N, 579 km
Obs Sequence Number: 00045597002
Obs Target Name: NGC 1097
Obs Date and Times: 2011-09-20 08:05:54 - 08:13:49
Obs Pointing(ra,dec,roll): 41.539, -30.260, 122.60
87.130_33.710_imageloc (boresight_dist, angle): (77, -175)
87.130_33.710_exposure (cm^2 cos adjusted): 0
87.130_33.710_altitude: 84 (up)
```

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

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

/tmp/110920_0807.png Content-Type: image/png

Content-Encoding: base64

/tmp/110920_0807_bat64ms_ipn

/tmp/110920_0807_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

02/12/11

MESSENGER

20/09/11

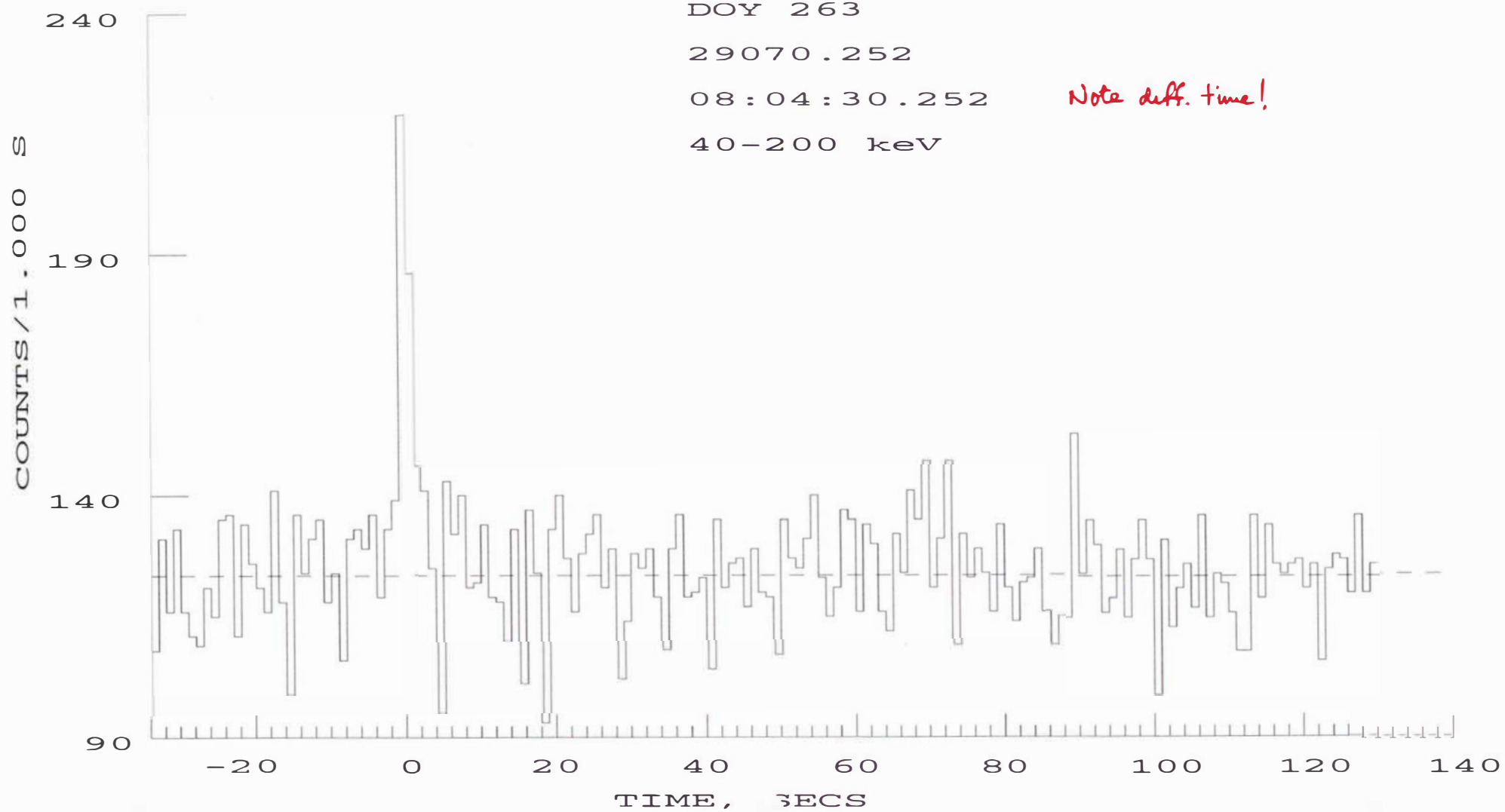
DOY 263

29070.252

08:04:30.252

40-200 keV

Note diff. time!



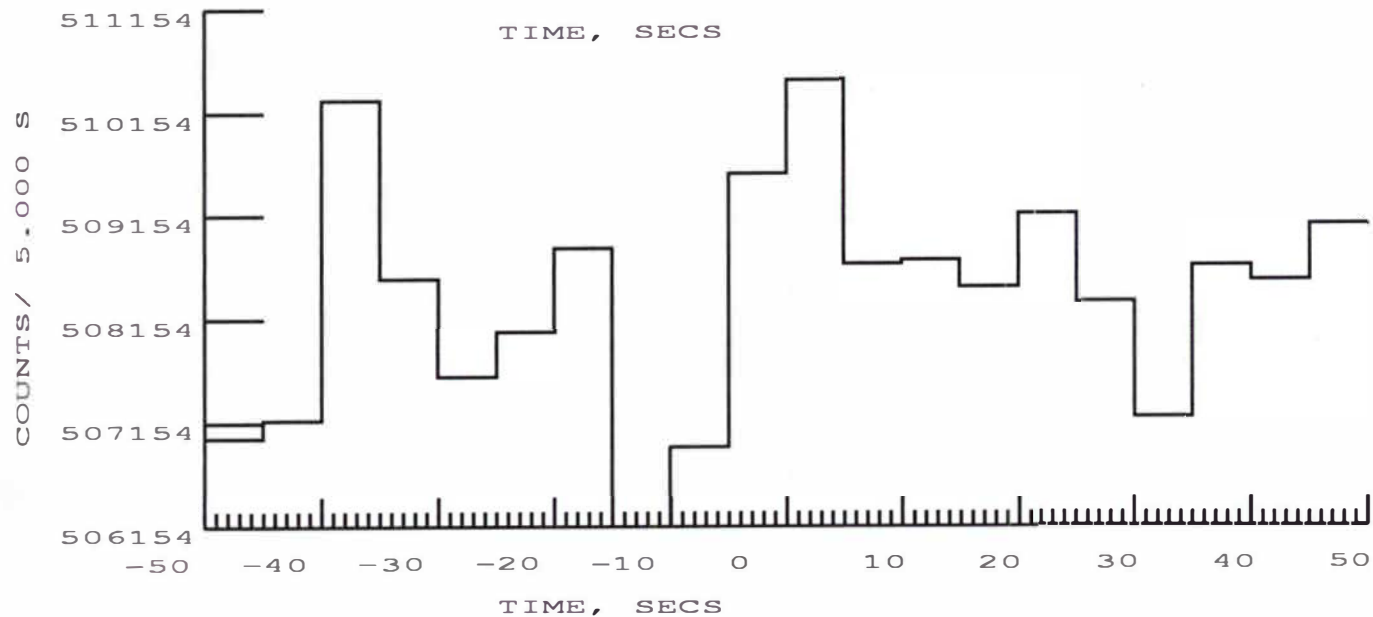
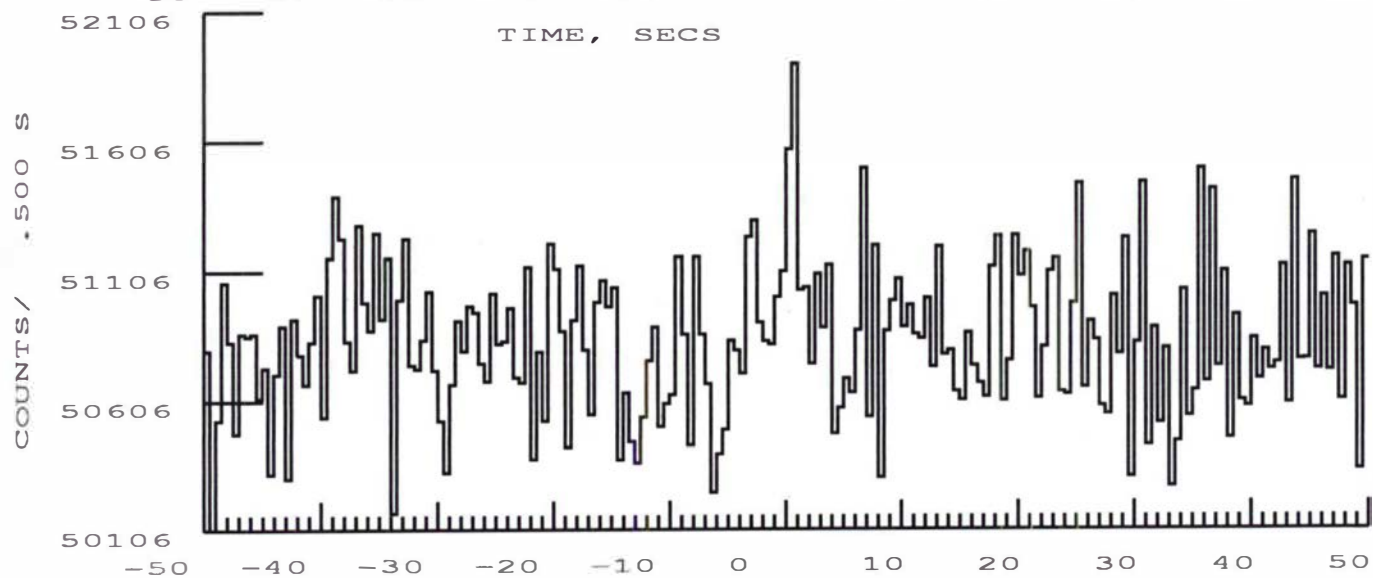
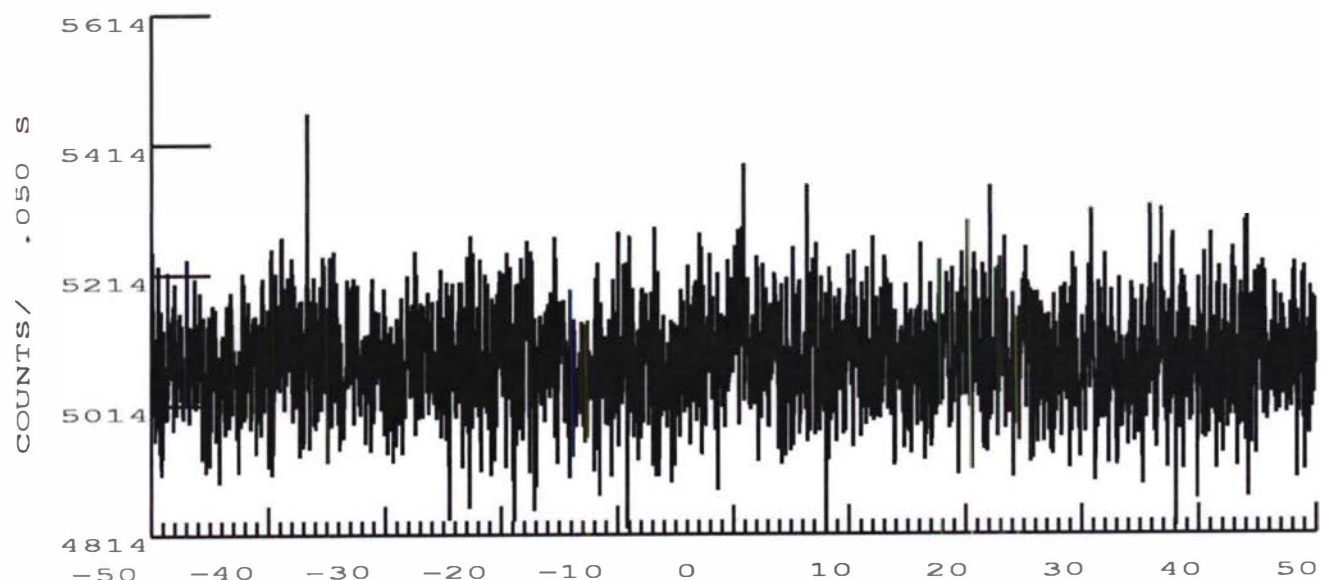
INTEGRAL

20/09/11

29236.000

08:07:16.0

20/01/14



B

08/08/11

MESSENGER

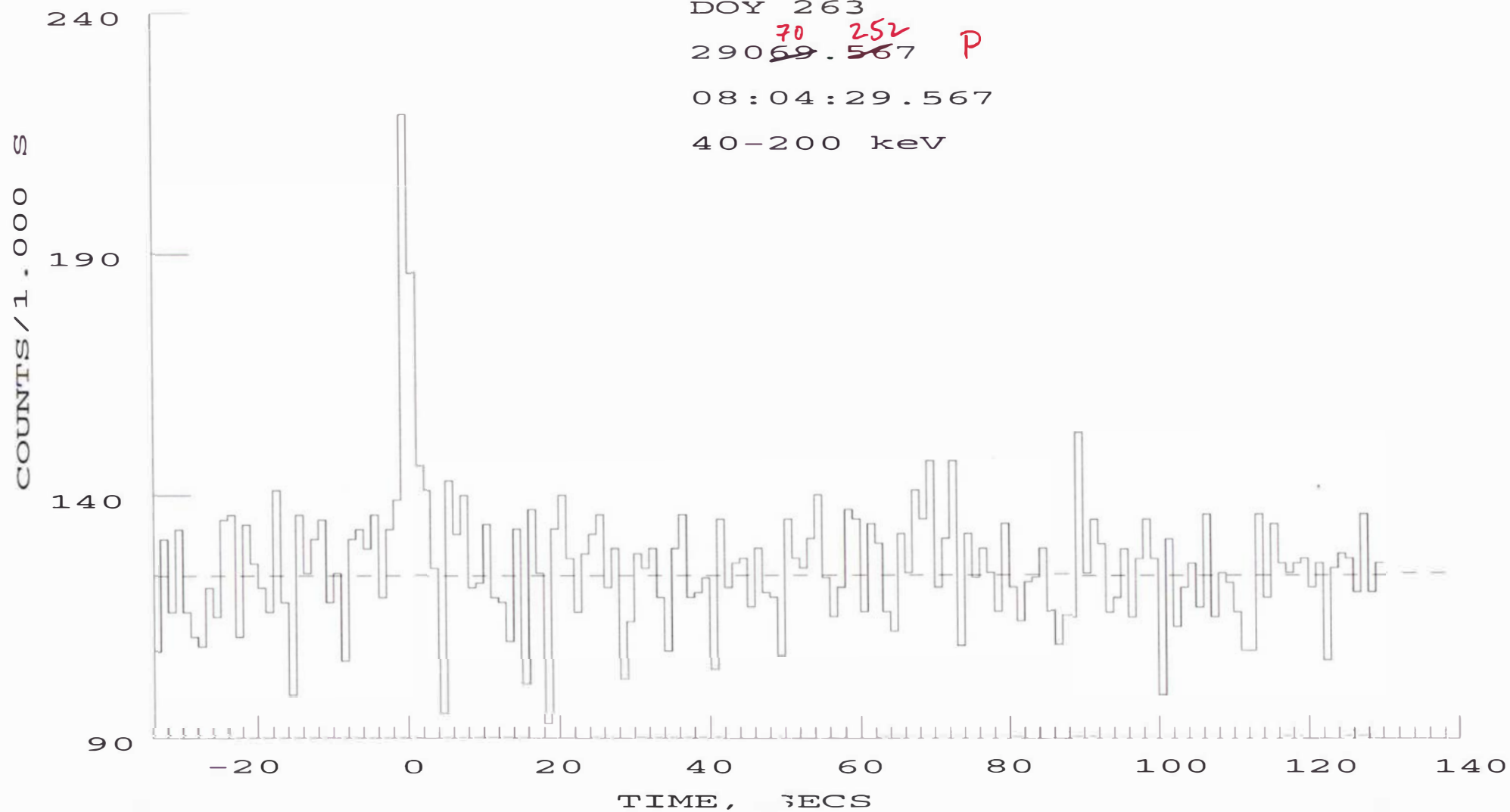
20/09/11

DOY 263

290⁷⁰~~69~~.²⁵²~~567~~ P

08:04:29.567

40-200 keV



INTEGRAL

20/09/11

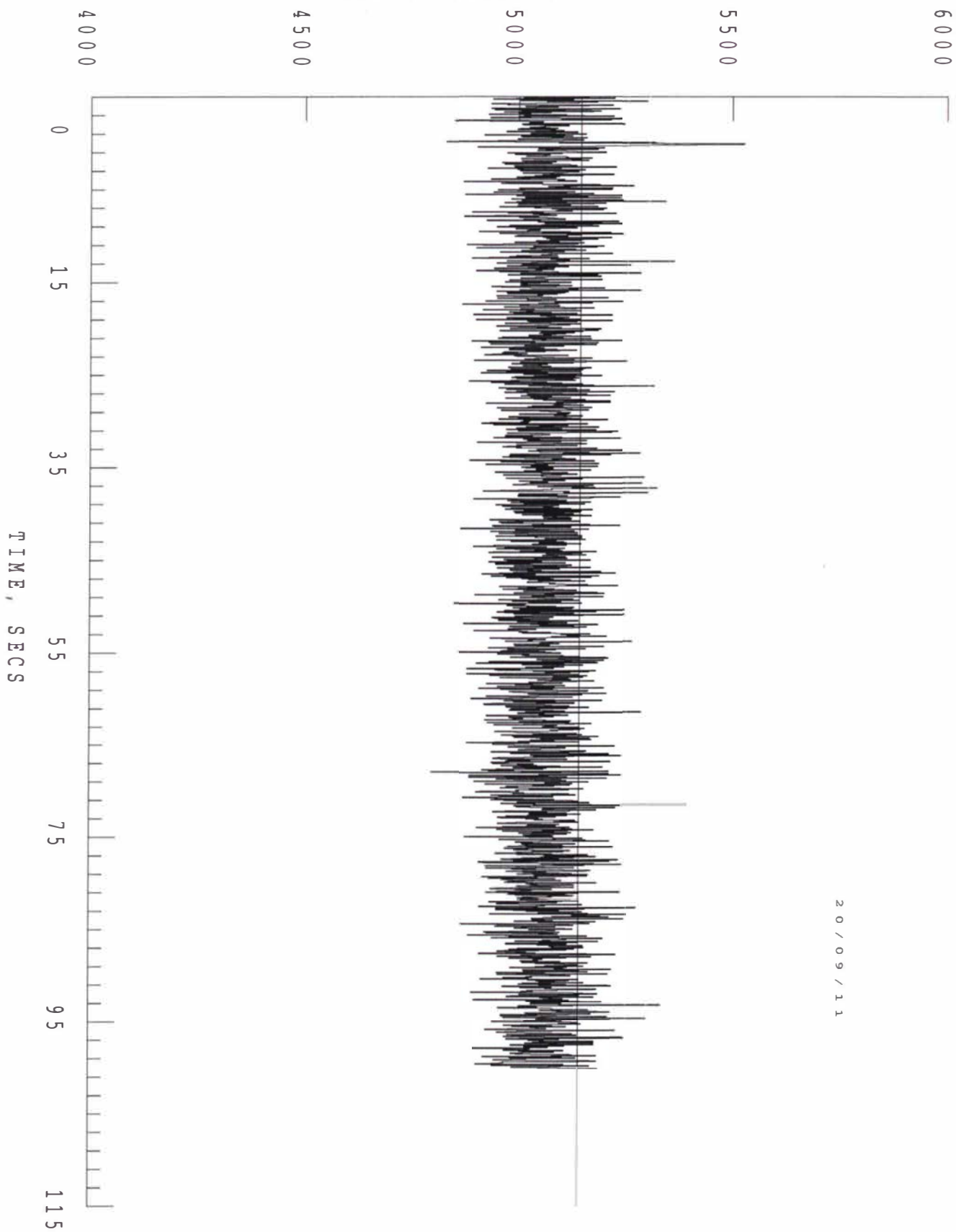
40980.548

BC

100-10000 keV

11:23:00

COUNTS/0.050 S



20/09/11

MS01

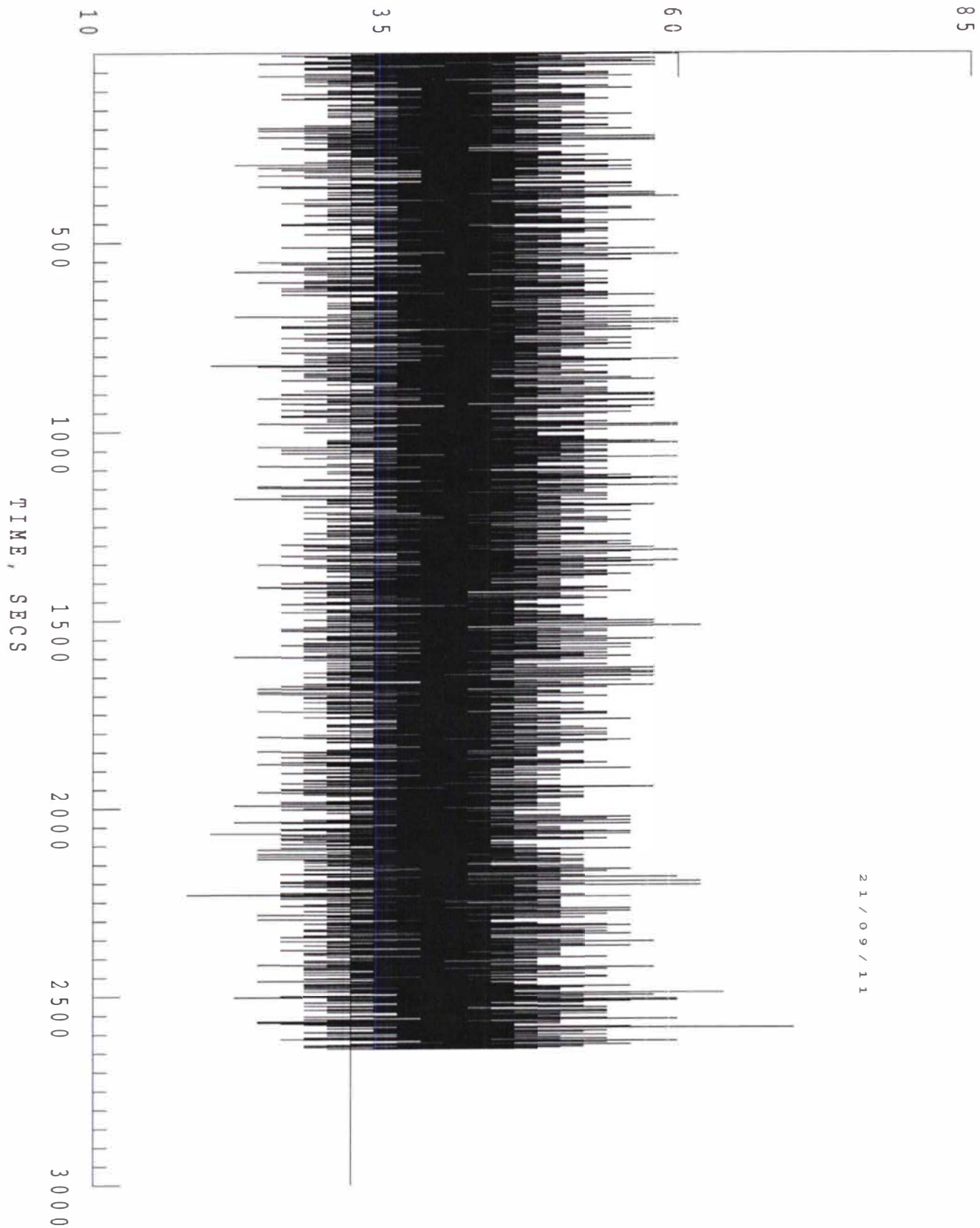
20/09/11

39622.127

50 - 3000 keV

C

COUNTS/0.250 S



21/09/11

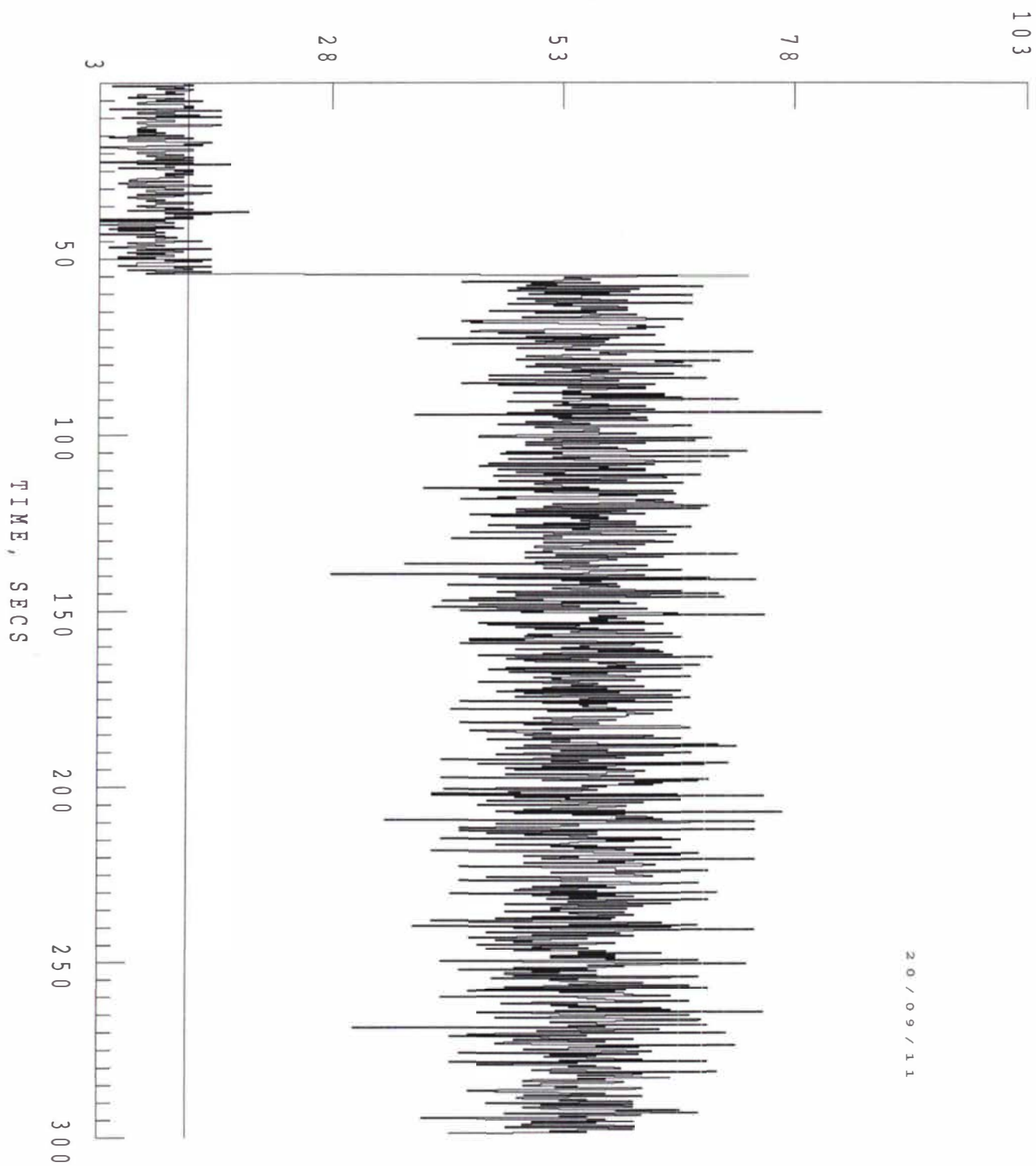
HESSI

20/09/11 40830.000 (INTEGRAL_20110920_40980)

BC

25 - 150 keV

COUNTS/0.250 S

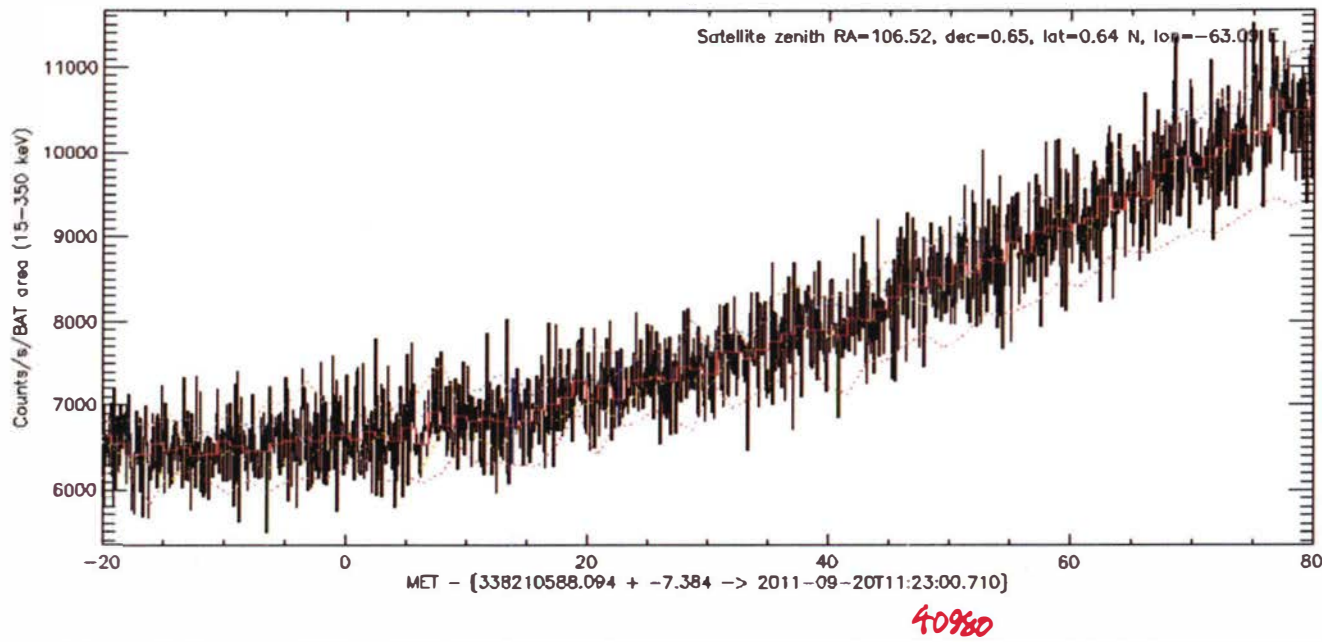


C

Subject: [Ipn] BAT lightcurve for trigger at 110920_1123
From: palmer+automatic_lightcurve@lanl.gov
Date: Tue, 20 Sep 2011 13:29:58 -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/110920_1123.png



```
% /usr/local/bin/swinfo -o 338210588.094
Time(MET + UTCF -> UT):      338210588.094 + -7.384 -> 2011-09-20T11:23:00.710
Swift Zenith(RA,dec):        106.52, 0.65
Swift Location(lon,lat,alt):  -63.09 E, 0.64 N, 578 km
```

--
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/110920_1123_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110920_1123.png

/tmp/110920_1123.png	Content-Type: image/png Content-Encoding: base64
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Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
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Part 1.5

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

Date: Jul 22 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)?
- ☒ 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?

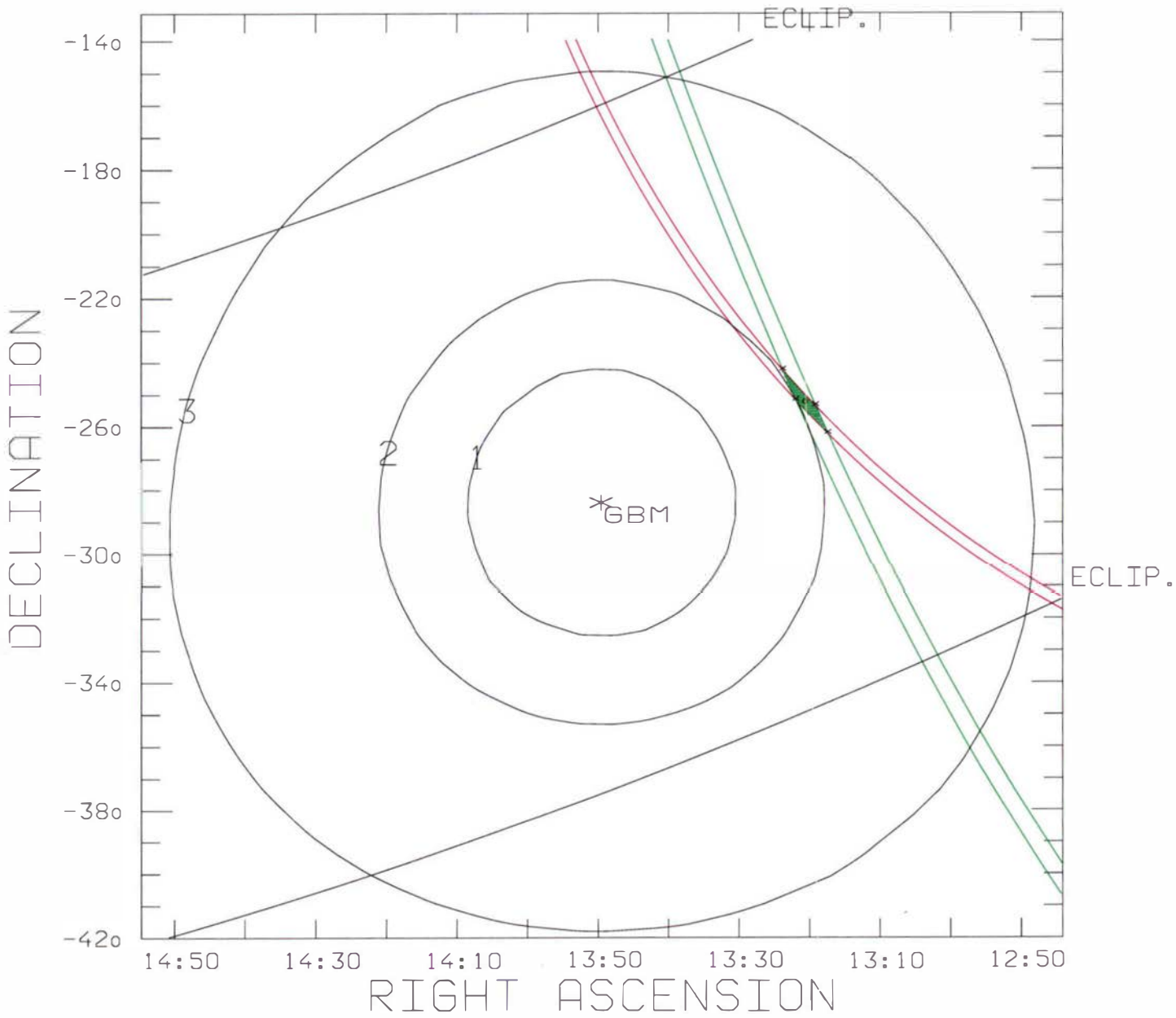
6. For 3 or More Spacecraft events

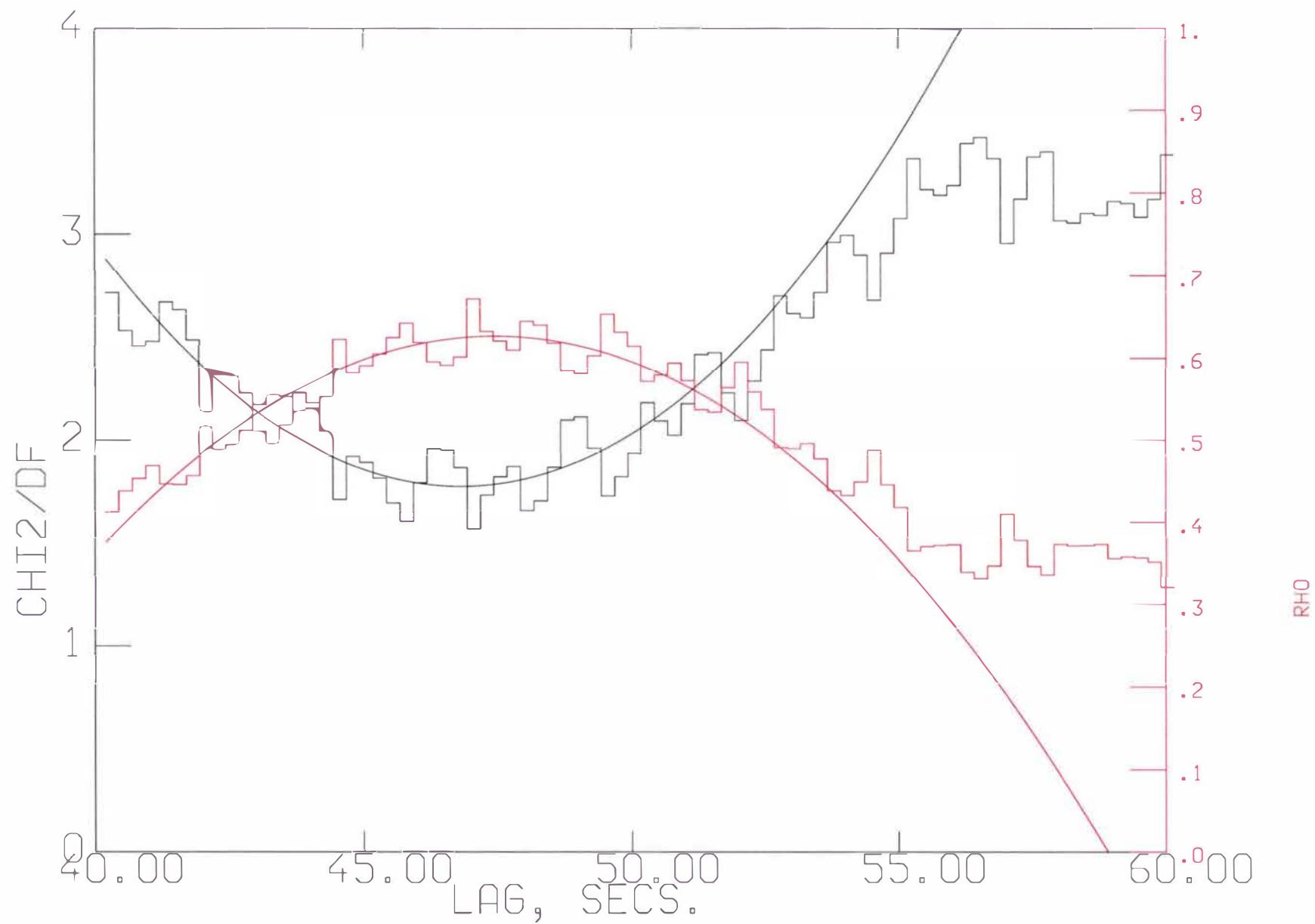
- ☐ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

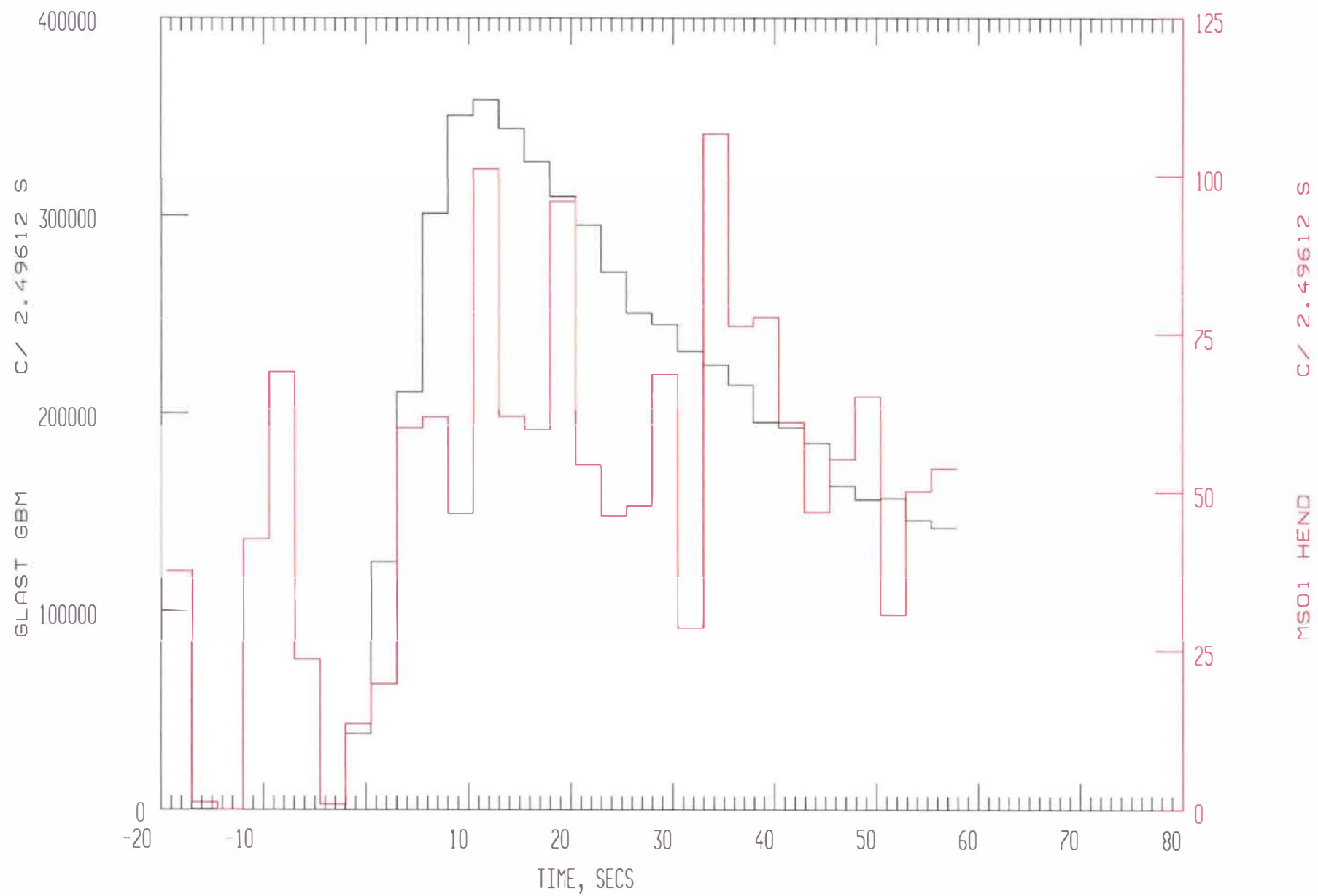
7. For INTEGRAL events

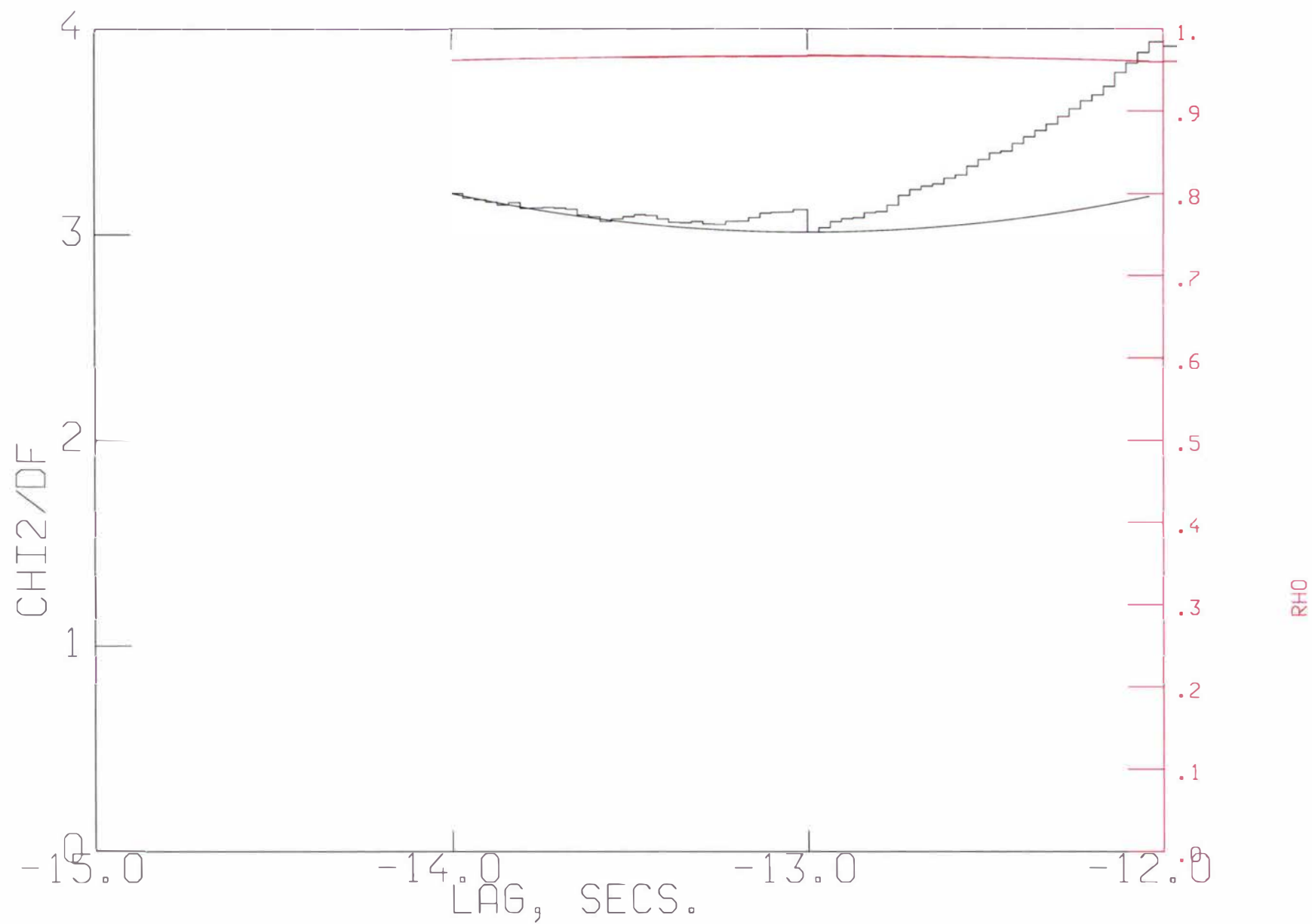
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

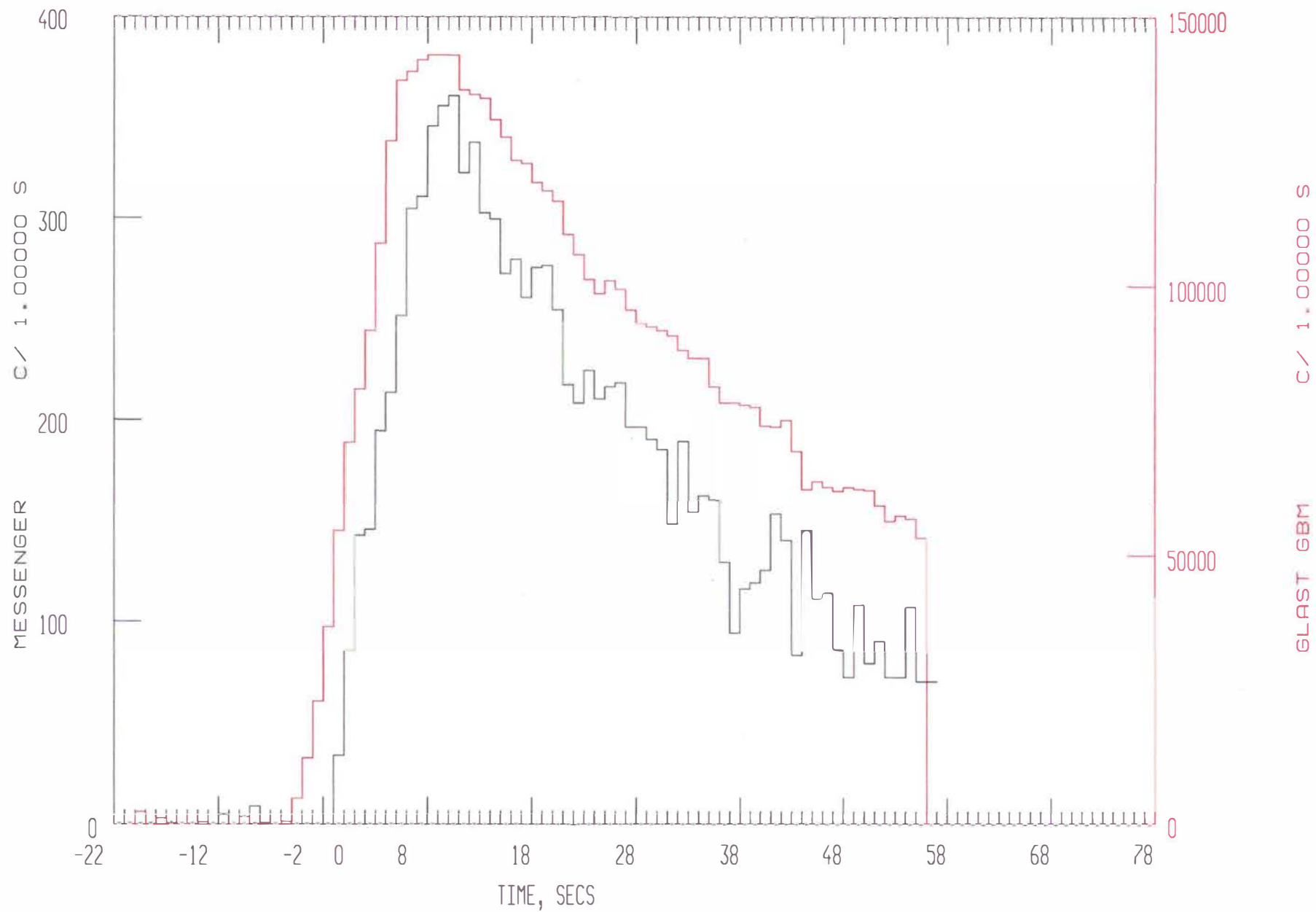
☒ ACCESS and MBL4 databases updated, with identical times?











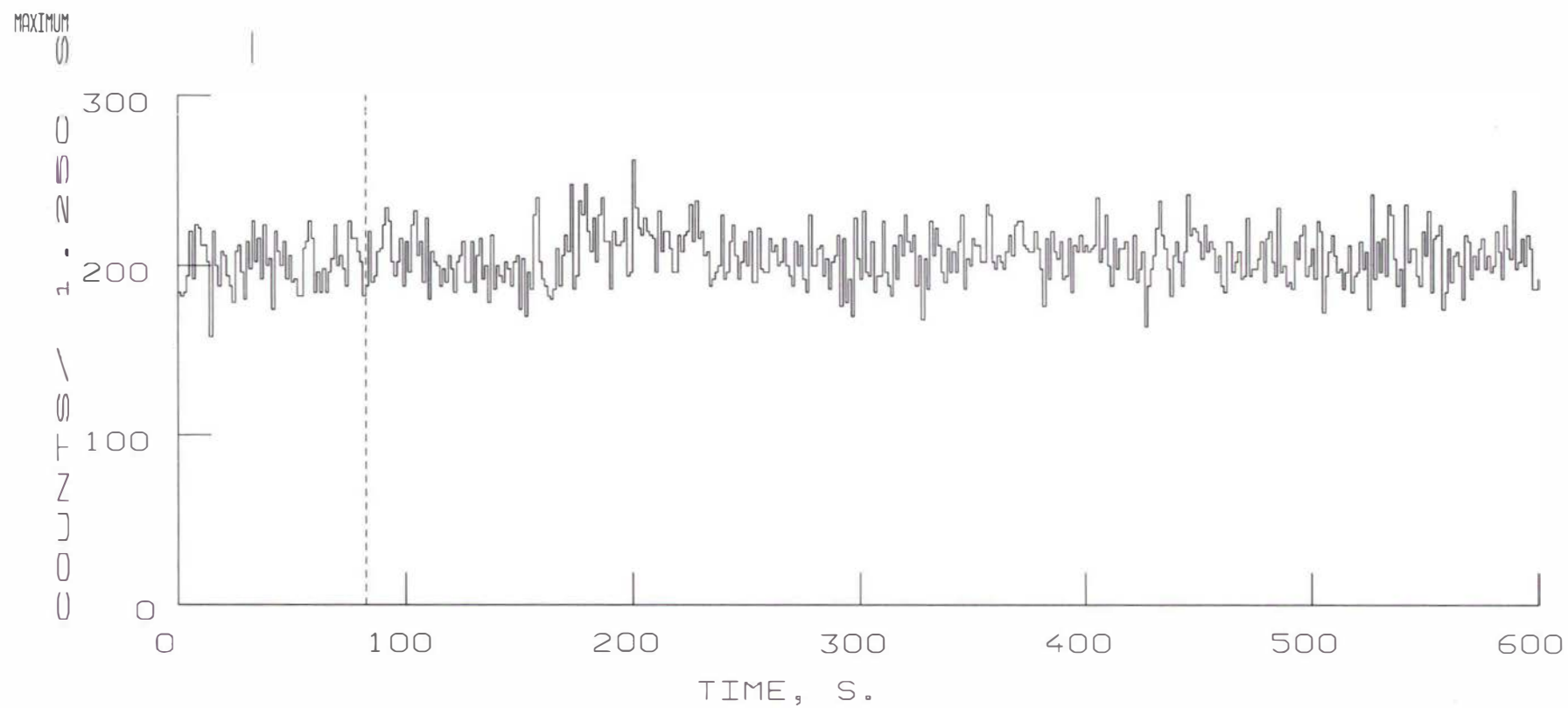
MS01 HEND

22/07/2016

20/09/2011 46942.012 s

0.250 S INTERVALS REGROUPED BY 5

50-3000 keV



KONUS1

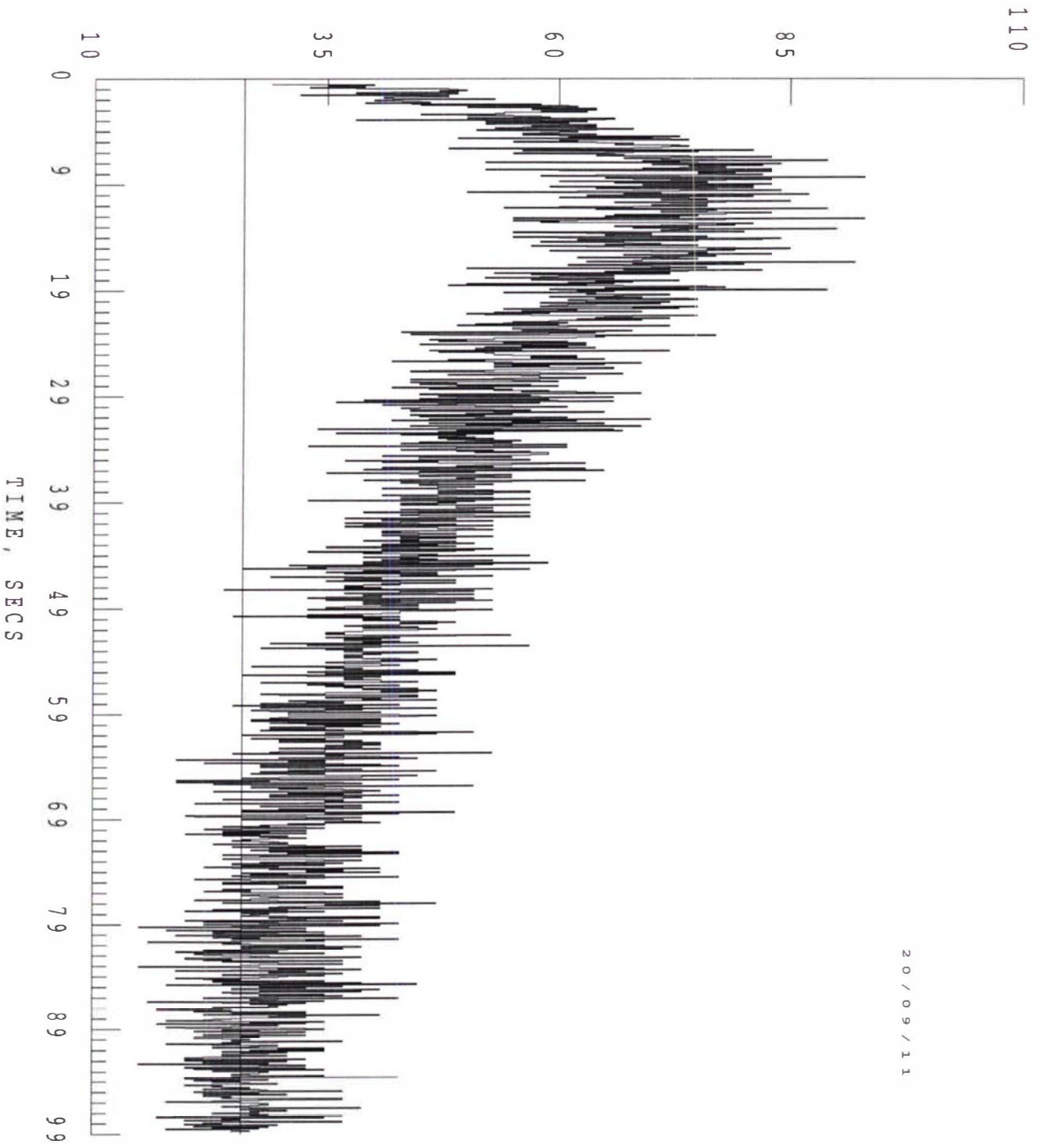
20/09/11

47140.707

D

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20110920 47140

TRIGGER TIME: 20/09/11 DOY 263 Julian 2455826.04560 UT = 13.094 13:05:40 (47140.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

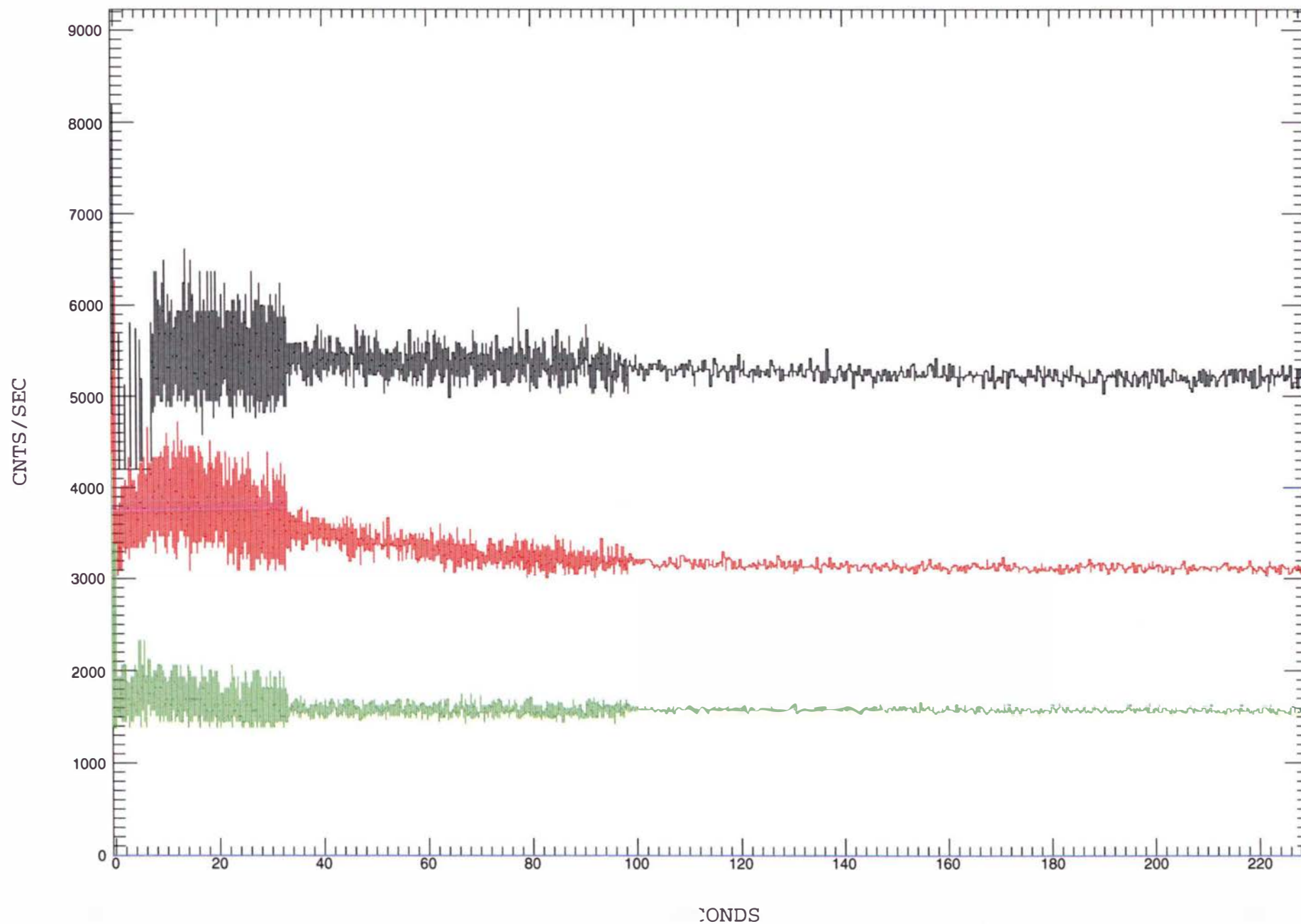
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



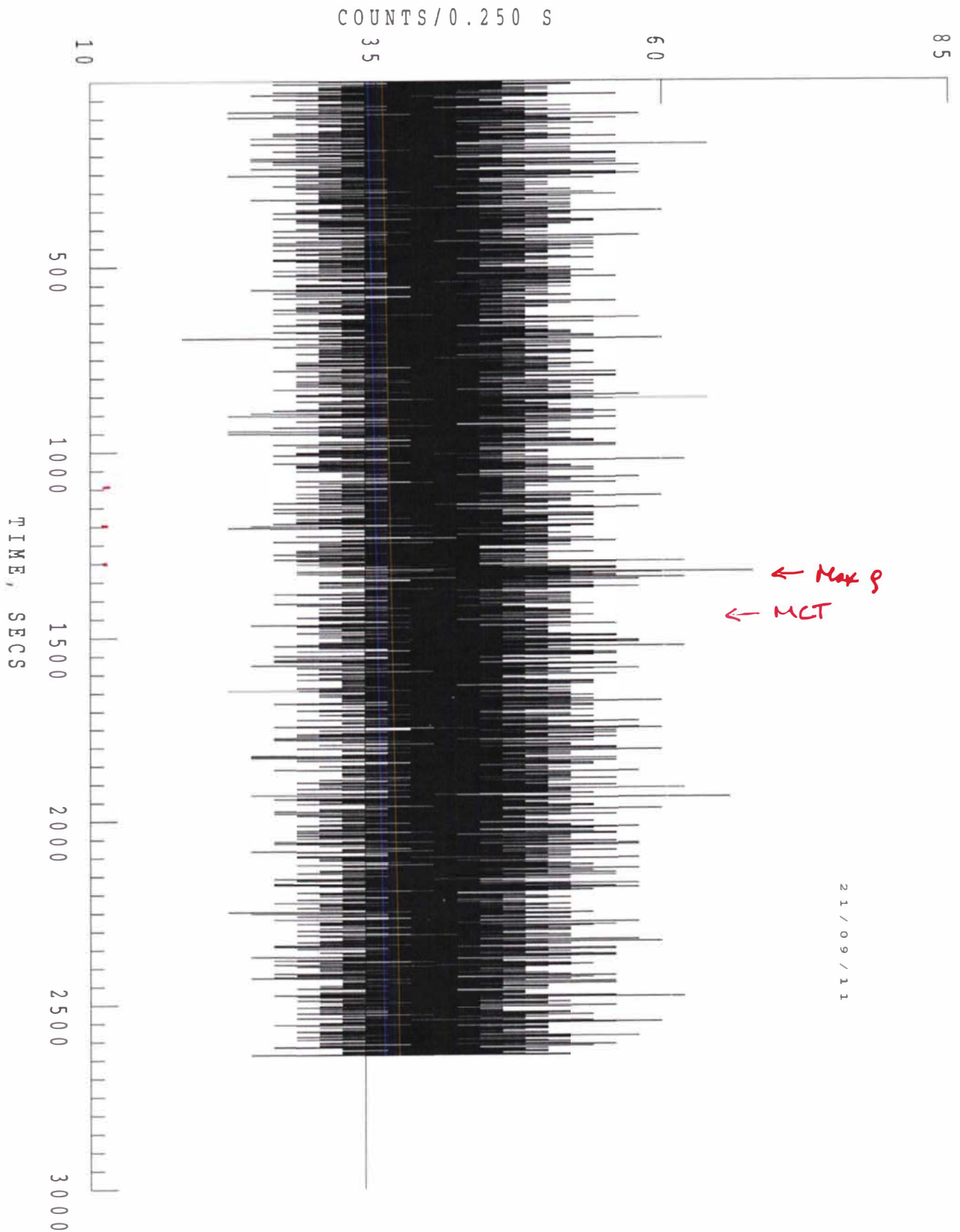
MS01

20/09/11

45802.022

D

50 - 3000 keV



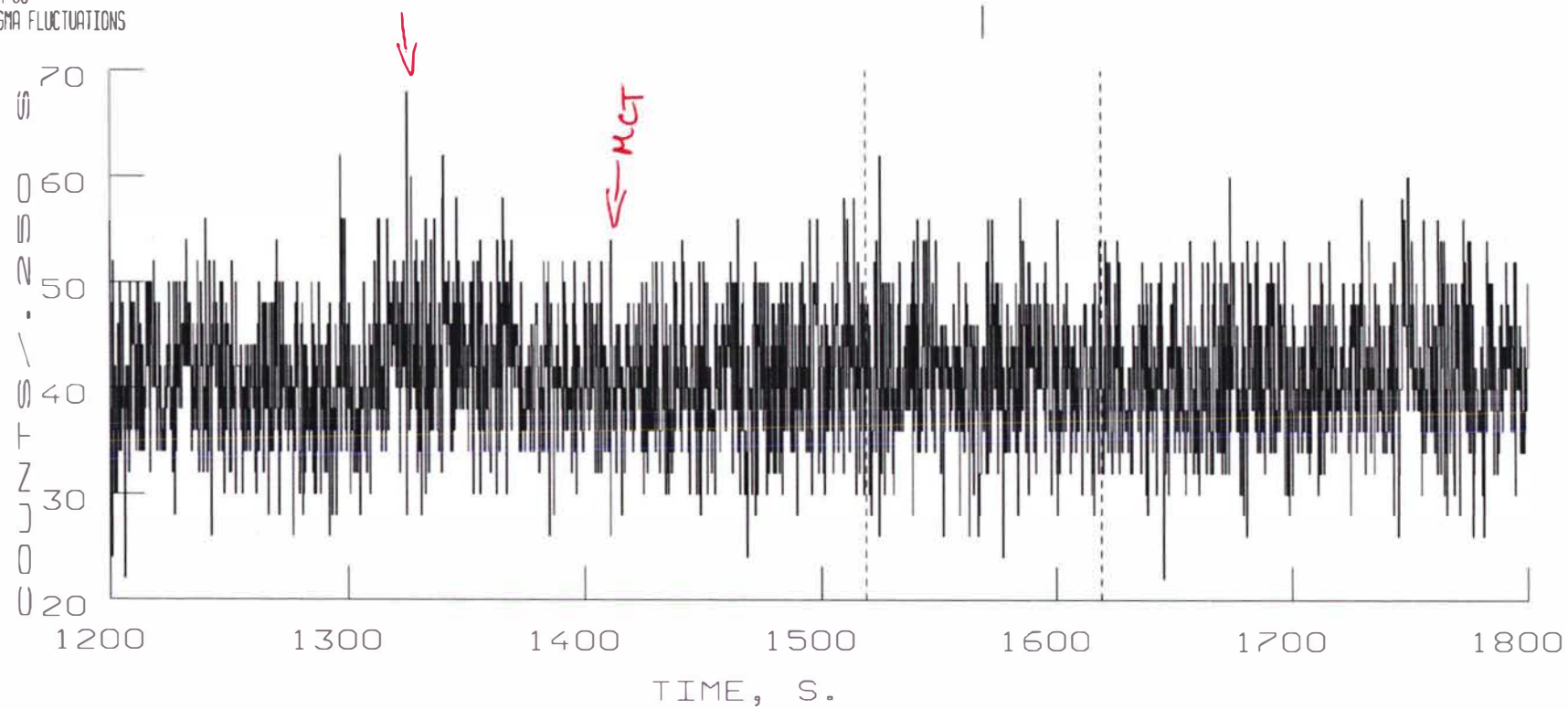
MS01 HEND

28/04/2014

20/09/2011 45802.023 s

50-3000 keV

N=10 M=80
>4.0 SIGMA FLUCTUATIONS

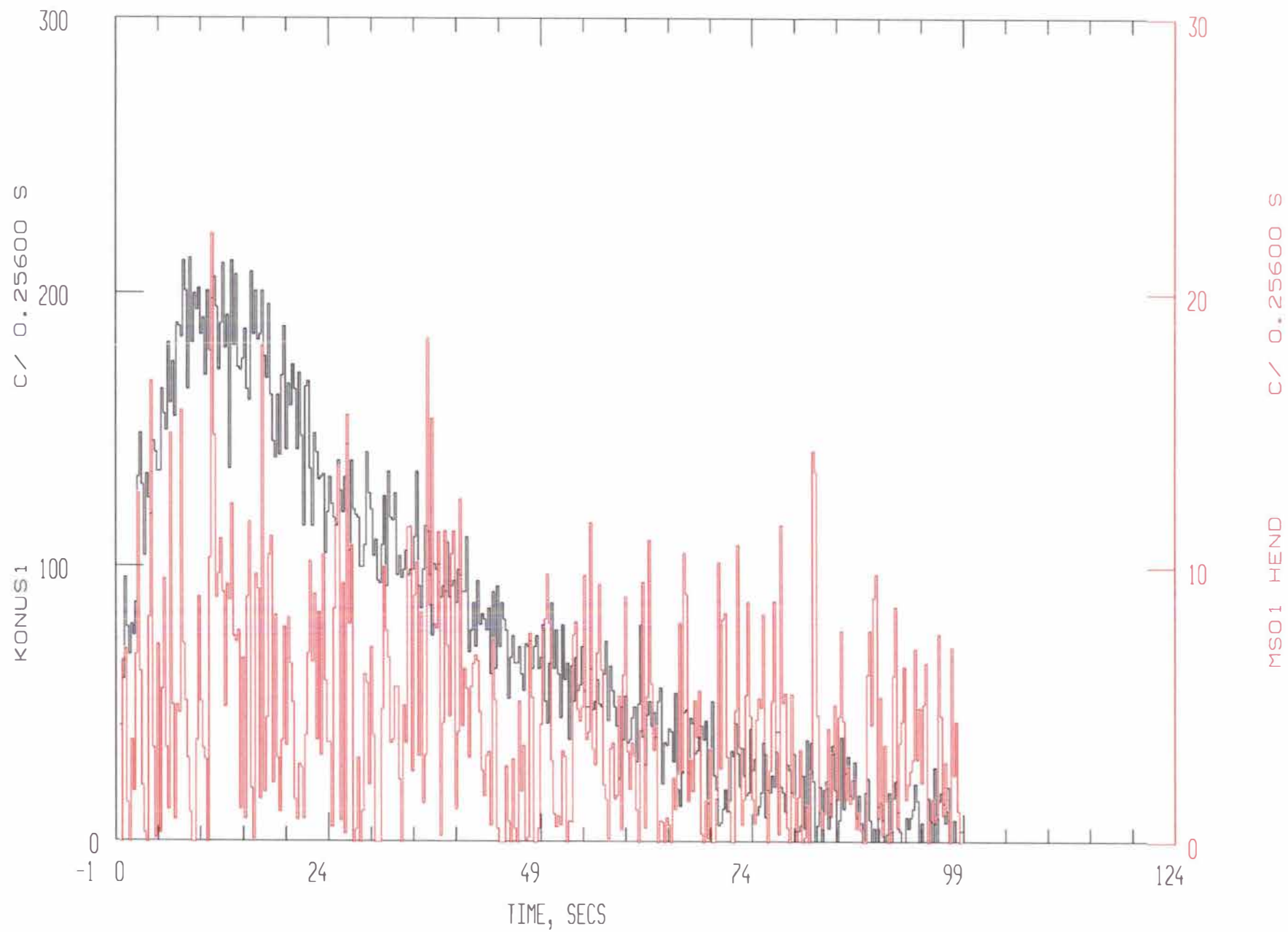


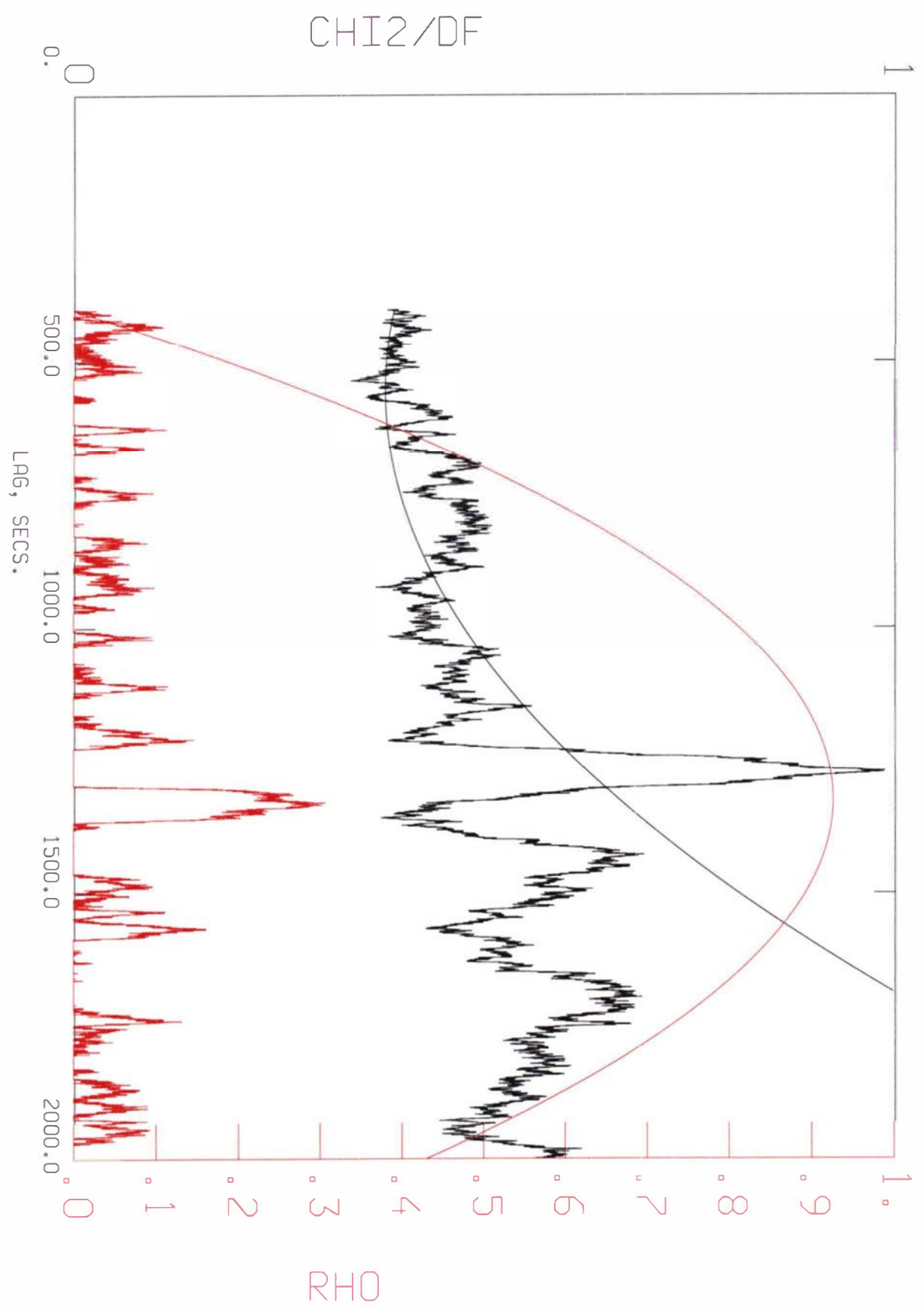
D

KONUS1 -MS01 HEND CORRELATION

20/09/11 47140.707

21/ 9/11



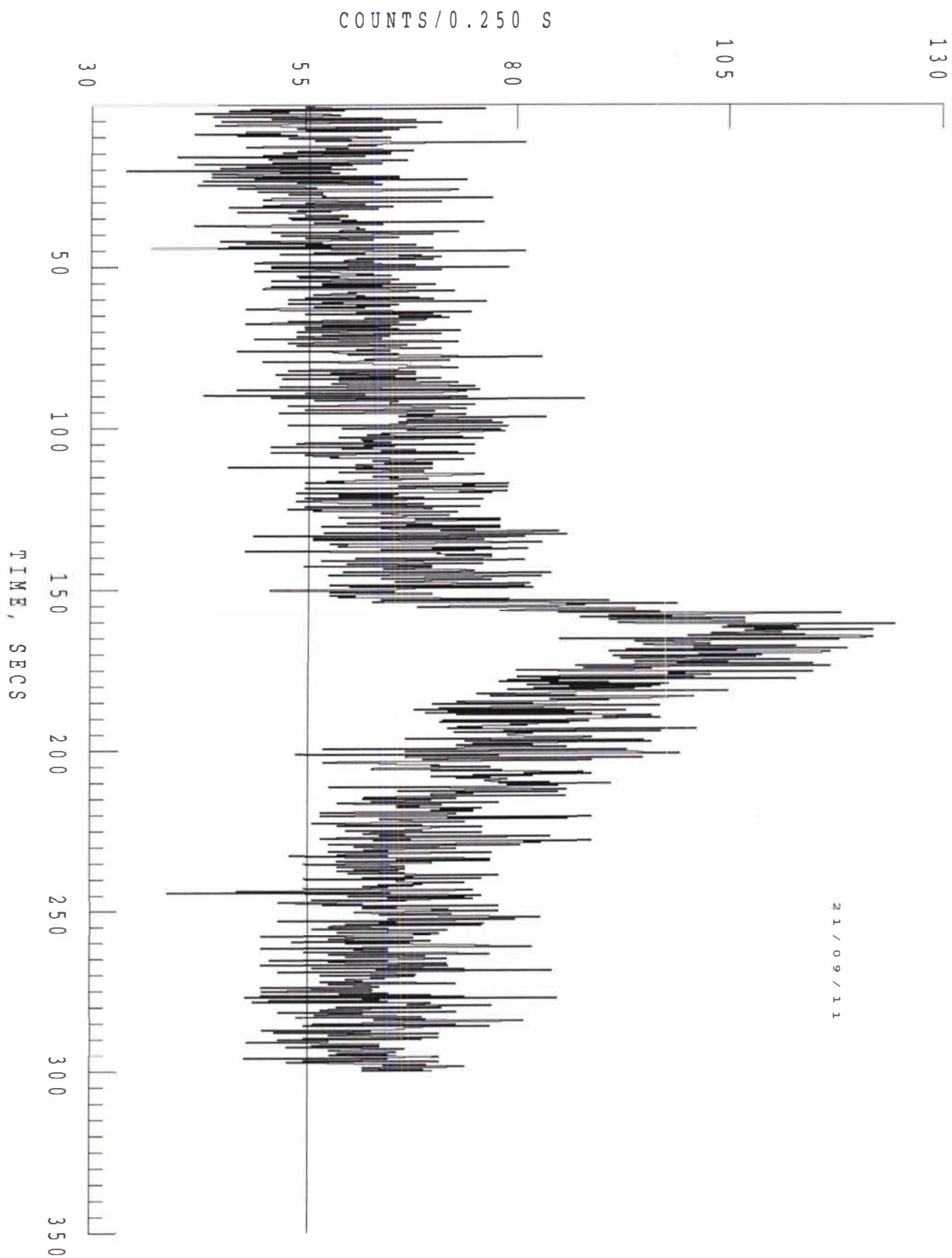


HESSI

20/09/11 46990.000 (KONUS1_20110920_47140)

D

25- 150 keV



INTEGRAL

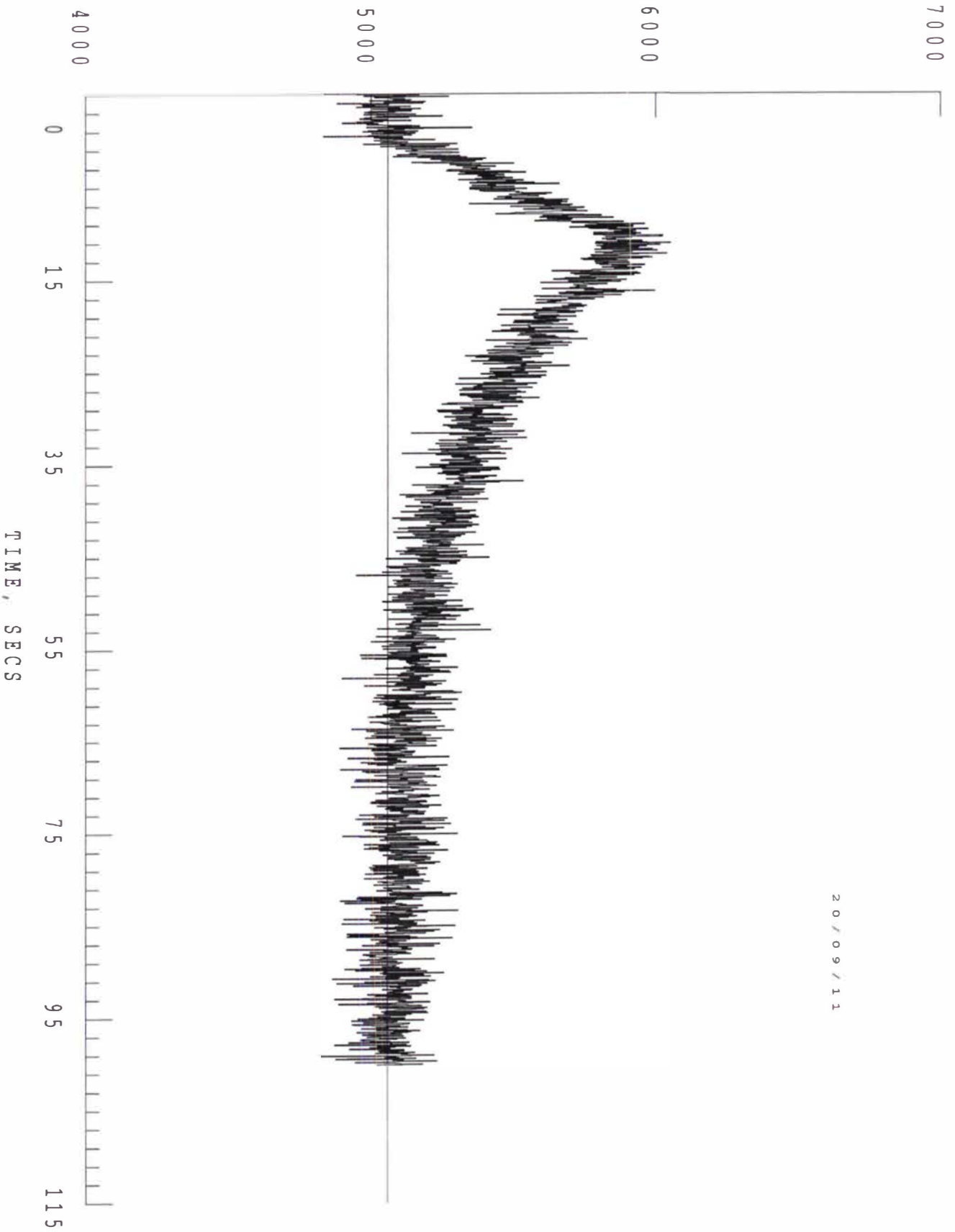
20/09/11

47141.500

ED

100-10000 keV

COUNTS/0.050 S



Subject: [Ipn] BAT lightcurve for trigger at 110920_1305

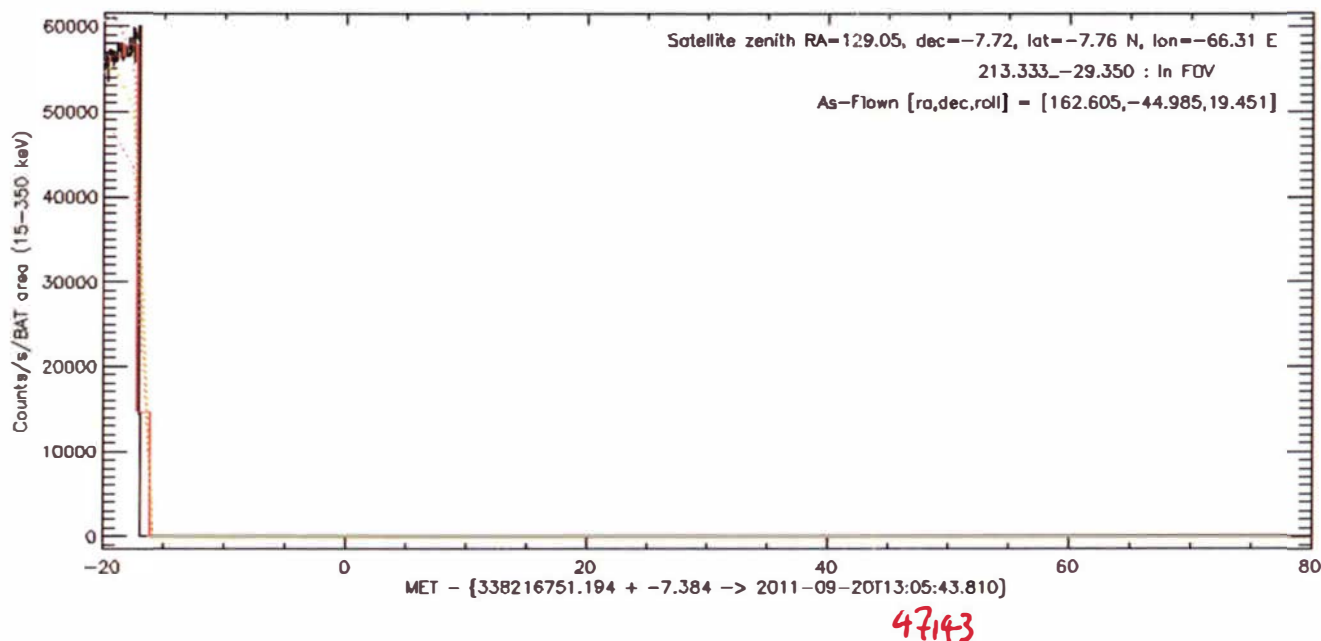
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 20 Sep 2011 13:29:58 -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/110920_1305.png



```
% /usr/local/bin/swinfo -o 338216749.064
Time(MET + UTCF -> UT): 338216749.064 + -7.384 -> 2011-09-20T13:05:41.680
Swift Zenith(RA,dec): 128.93, -7.68
Swift Location(lon,lat,alt): -66.42 E, -7.72 N, 577 km
Obs Sequence Number: 00074303043
Obs Target Name: saa-cold-263-02
Obs Date and Times: 2011-09-20 13:02:54 - 13:29:52
Obs Pointing(ra,dec,roll): 162.605, -44.985, 19.45
```

```
% /usr/local/bin/swinfo -o 338216751.194 -s 202.640 -26.030
Time(MET + UTCF -> UT): 338216751.194 + -7.384 -> 2011-09-20T13:05:43.810
Swift Zenith(RA,dec): 129.05, -7.72
Swift Location(lon,lat,alt): -66.31 E, -7.76 N, 577 km
Obs Sequence Number: 00074303043
Obs Target Name: saa-cold-263-02
Obs Date and Times: 2011-09-20 13:02:54 - 13:29:52
Obs Pointing(ra,dec,roll): 162.605, -44.985, 19.45
202.640 -26.030_imageloc (boresight_dist, angle): (37, -36)
202.640 -26.030_exposure (cm2 cos adjusted): 2504
202.640 -26.030_altitude: 42 (up)
```

```
% /usr/local/bin/swinfo -o 338216751.194 -s 202.950 -39.633
Time(MET + UTCF -> UT): 338216751.194 + -7.384 -> 2011-09-20T13:05:43.810
Swift Zenith(RA,dec): 129.05, -7.72
Swift Location(lon,lat,alt): -66.31 E, -7.76 N, 577 km
Obs Sequence Number: 00074303043
Obs Target Name: saa-cold-263-02
Obs Date and Times: 2011-09-20 13:02:54 - 13:29:52
Obs Pointing(ra,dec,roll): 162.605, -44.985, 19.45
202.950 -39.633_imageloc (boresight_dist, angle): (30, -15)
202.950 -39.633_exposure (cm2 cos adjusted): 3731
202.950 -39.633_altitude: 41 (up)
```

```
% /usr/local/bin/swinfo -o 338216751.194 -s 203.780 -25.790
Time(MET + UTCF -> UT): 338216751.194 + -7.384 -> 2011-09-20T13:05:43.810
Swift Zenith(RA,dec): 129.05, -7.72
Swift Location(lon,lat,alt): -66.31 E, -7.76 N, 577 km
Obs Sequence Number: 00074303043
Obs Target Name: saa-cold-263-02
```

[Ipn] BAT lightcurve for trigger at 110920_1305

```
Obs Date and Times:      2011-09-20   13:02:54 - 13:29:52
Obs Pointing(ra,dec,roll): 162.605, -44.985, 19.45
203.780_-25.790_imageloc (boresight_dist, angle): (38, -36)
203.780_-25.790_exposure (cm² cos adjusted): 2403
203.780_-25.790_altitude: 41 (up)

% /usr/local/bin/swinfo -o 338216751.194 -s 204.900_-25.590
Time(MET + UTCF -> UT):   338216751.194 + -7.384 -> 2011-09-20T13:05:43.810
Swift Zenith(RA,dec):     129.05, -7.72
Swift Location(lon,lat,alt): -66.31 E, -7.76 N, 577 km
Obs Sequence Number:      00074303043
Obs Target Name:          saa-cold-263-02
Obs Date and Times:      2011-09-20   13:02:54 - 13:29:52
Obs Pointing(ra,dec,roll): 162.605, -44.985, 19.45
204.900_-25.590_imageloc (boresight_dist, angle): (39, -35)
204.900_-25.590_exposure (cm² cos adjusted): 2294
204.900_-25.590_altitude: 40 (up)

% /usr/local/bin/swinfo -o 338216751.194 -s 213.083_-29.633
Time(MET + UTCF -> UT):   338216751.194 + -7.384 -> 2011-09-20T13:05:43.810
Swift Zenith(RA,dec):     129.05, -7.72
Swift Location(lon,lat,alt): -66.31 E, -7.76 N, 577 km
Obs Sequence Number:      00074303043
Obs Target Name:          saa-cold-263-02
Obs Date and Times:      2011-09-20   13:02:54 - 13:29:52
Obs Pointing(ra,dec,roll): 162.605, -44.985, 19.45
213.083_-29.633_imageloc (boresight_dist, angle): (42, -23)
213.083_-29.633_exposure (cm² cos adjusted): 2258
213.083_-29.633_altitude: 32 (up)

% /usr/local/bin/swinfo -o 338216751.194 -s 213.333_-29.350
Time(MET + UTCF -> UT):   338216751.194 + -7.384 -> 2011-09-20T13:05:43.810
Swift Zenith(RA,dec):     129.05, -7.72
Swift Location(lon,lat,alt): -66.31 E, -7.76 N, 577 km
Obs Sequence Number:      00074303043
Obs Target Name:          saa-cold-263-02
Obs Date and Times:      2011-09-20   13:02:54 - 13:29:52
Obs Pointing(ra,dec,roll): 162.605, -44.985, 19.45
213.333_-29.350_imageloc (boresight_dist, angle): (43, -23)
213.333_-29.350_exposure (cm² cos adjusted): 2201
213.333_-29.350_altitude: 32 (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/110920_1305.png

Content-Type: image/png

Content-Encoding: base64

/tmp/110920_1305_bat64ms_ipn

/tmp/110920_1305_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

D

From ipn-bounces@ssl.berkeley.edu Wed Sep 21 05:34:15 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Wed, 21 Sep 2011 08:36:19 -0400
From: Hans Krimm <hans.krimm@nasa.gov>
To: "Valentin Pal'shin" <val@mail.ioffe.ru>
Cc: IPN <ipn@ssl.berkeley.edu>
Subject: Re: [Ipn] very long GRB 110920(A) (=Fermi/GBM trigger 338216745)
X-Ucb-Scan-Signature: 67677477f575600125e1a13161ef5ddc7be7a12c
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='RCVD_IN_DNSWL_MED -2.3,
RP_MATCHES_RCVD -0.504'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Hi Valentin:

It looks like Swift went into the SAA just before the Konus trigger.

--Hans

On 9/21/11 6:32 AM, Valentin Pal'shin wrote:

> Here is the figure.

>

> Valentin

>

>> A very long, rather hard GRB triggered Konus-Wind at 2011-09-20

>> T0(KW)=47140.707 s UT (13:05:40.707) (corresponds to the Fermi/GBM

>> trigger 338216745). See the attached figure

>> The burst light curve shows a single pulse with a duration of ~250 s

>> (duration strongly depends on energy band). The source of the burst is

>> in the southern ecliptic at rather low ecliptic latitude.

>

> Any other detections?

>>

>> Best wishes,

>>

>> Valentin

>>

--

Dr. Hans A. Krimm
Universities Space Research Association
CRESST and NASA Goddard Space Flight Center
Code 661, ASD
Greenbelt, MD 20771
USA
301-286-6955
fax 301-286-0677

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

02/12/11

MESSENGER

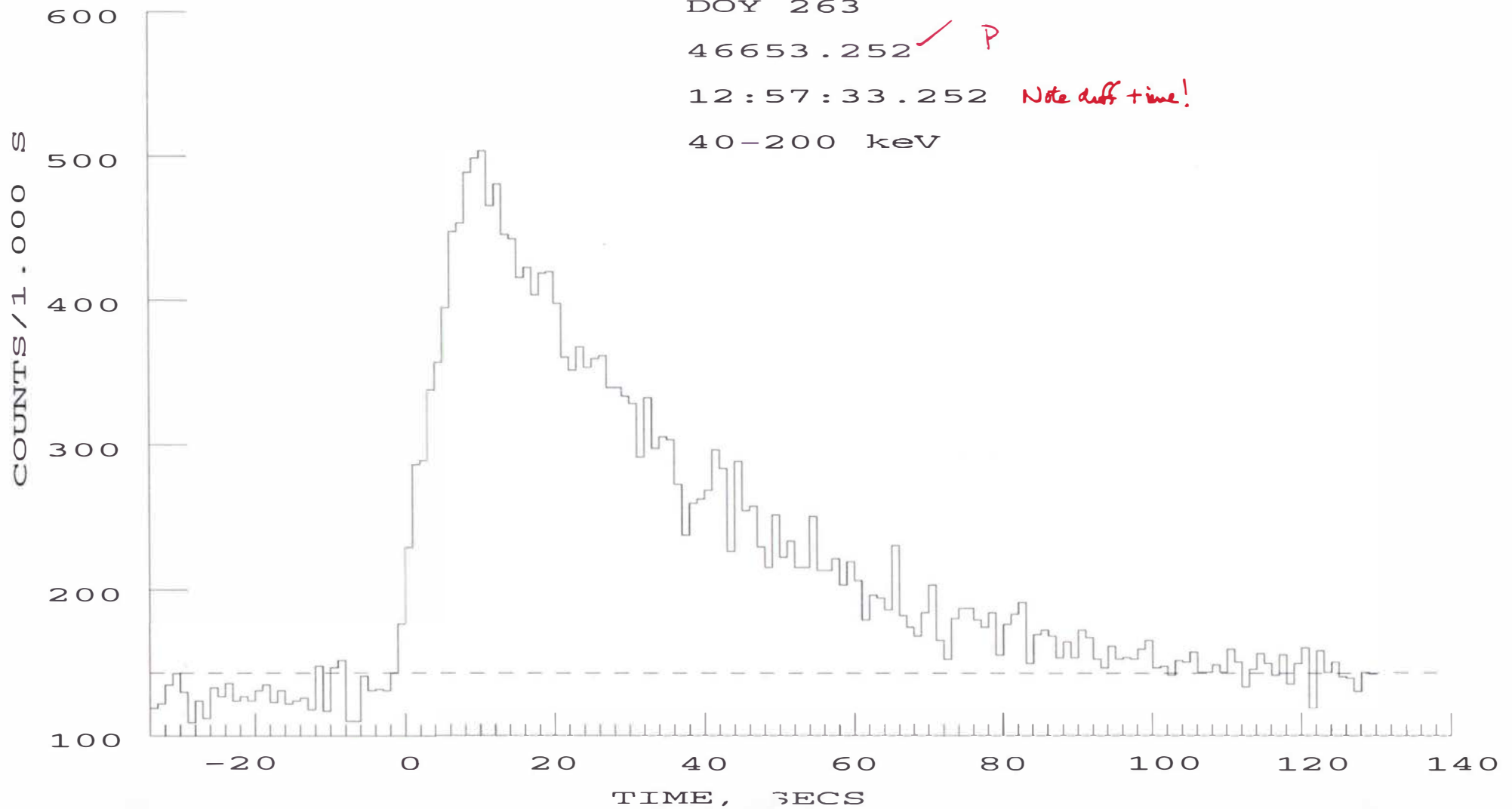
20/09/11

DOY 263

46653.252 ✓ P

12:57:33.252 *Note diff + time!*

40-200 keV



D

08/08/11

MESSENGER

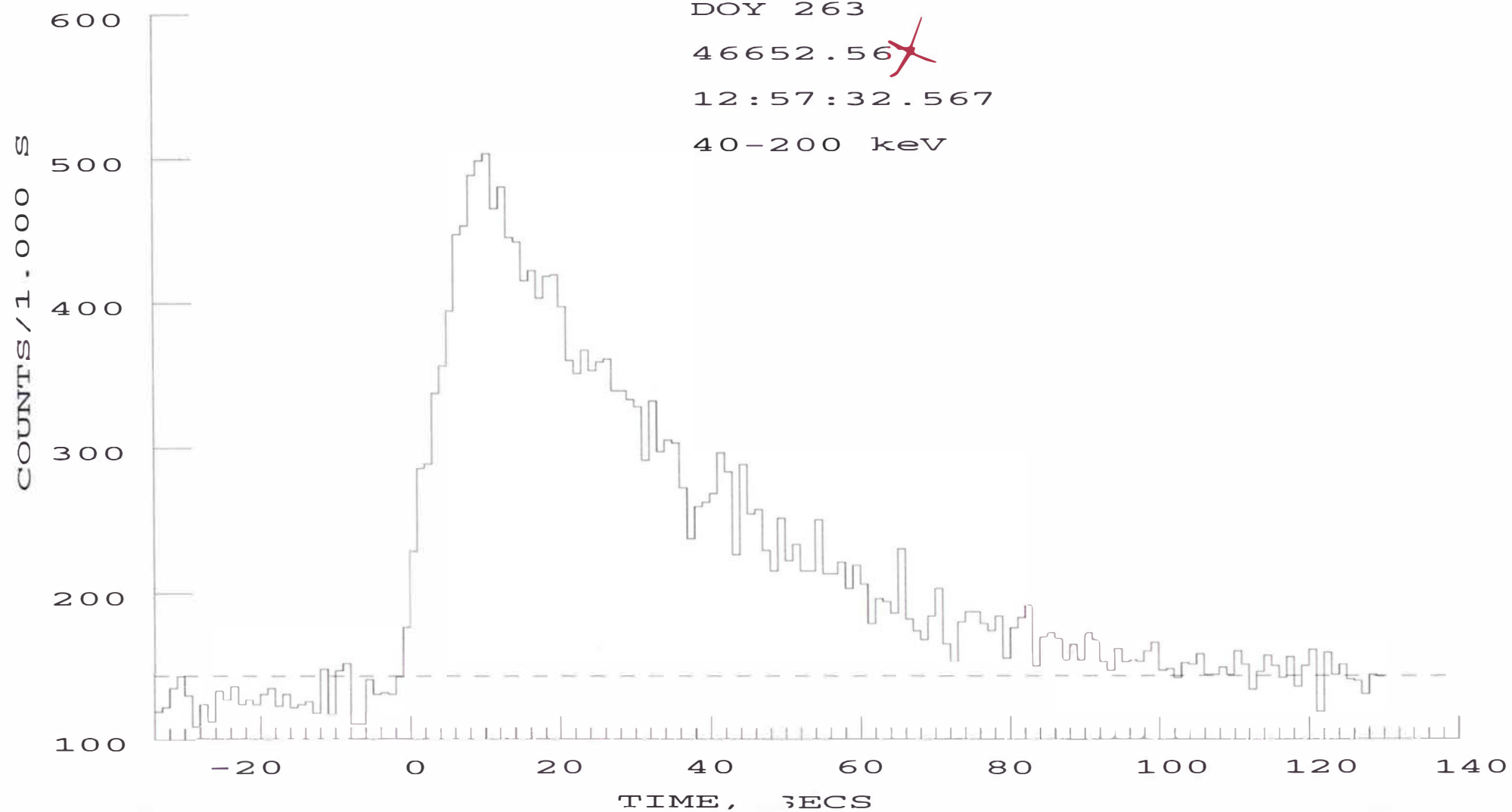
20/09/11

DOY 263

46652.56

12:57:32.567

40-200 keV



SUZAKU

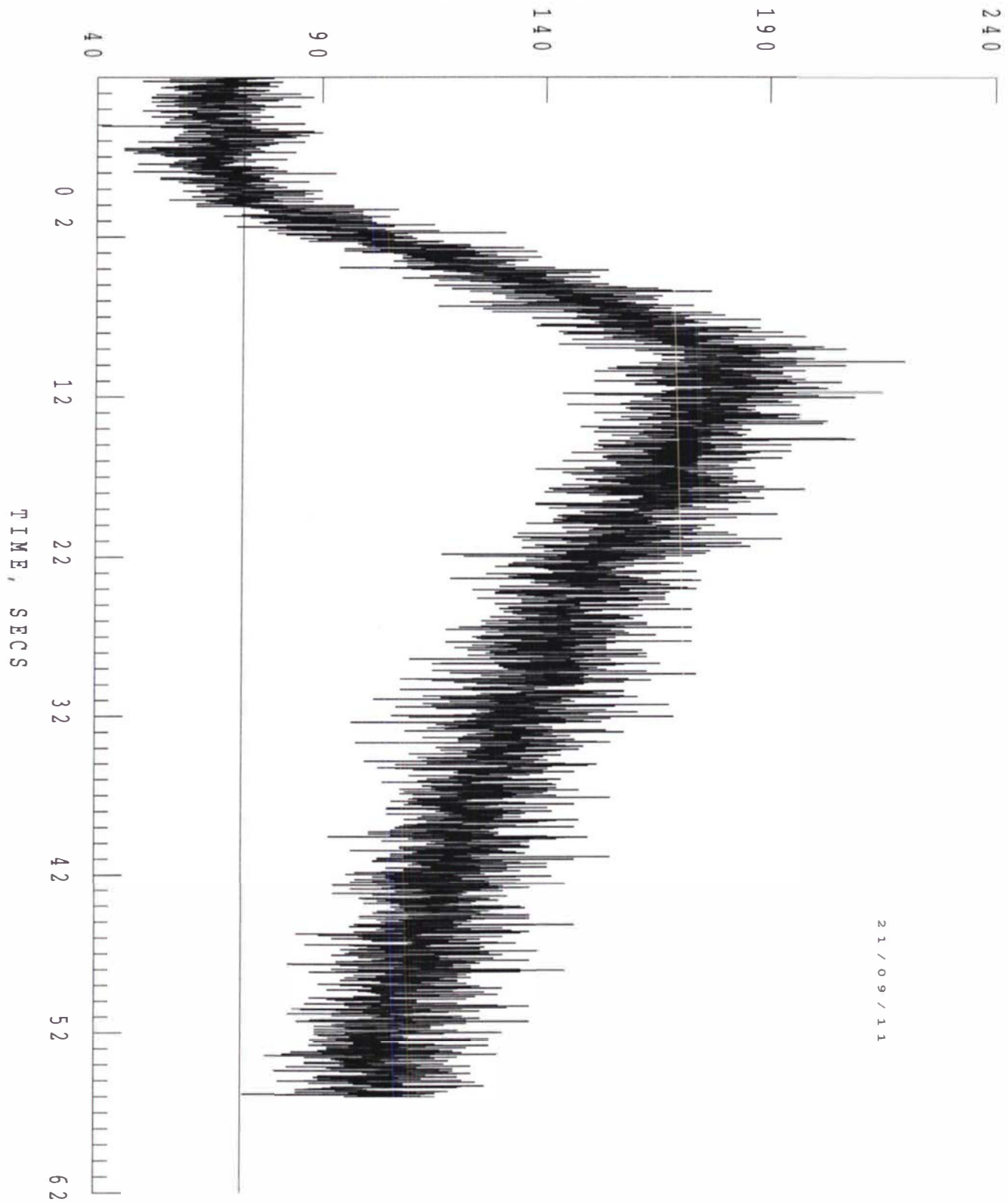
20/09/11

47143.087

D

50 - 240 keV

COUNTS/0.016 S



D

GLAST

20/09/11

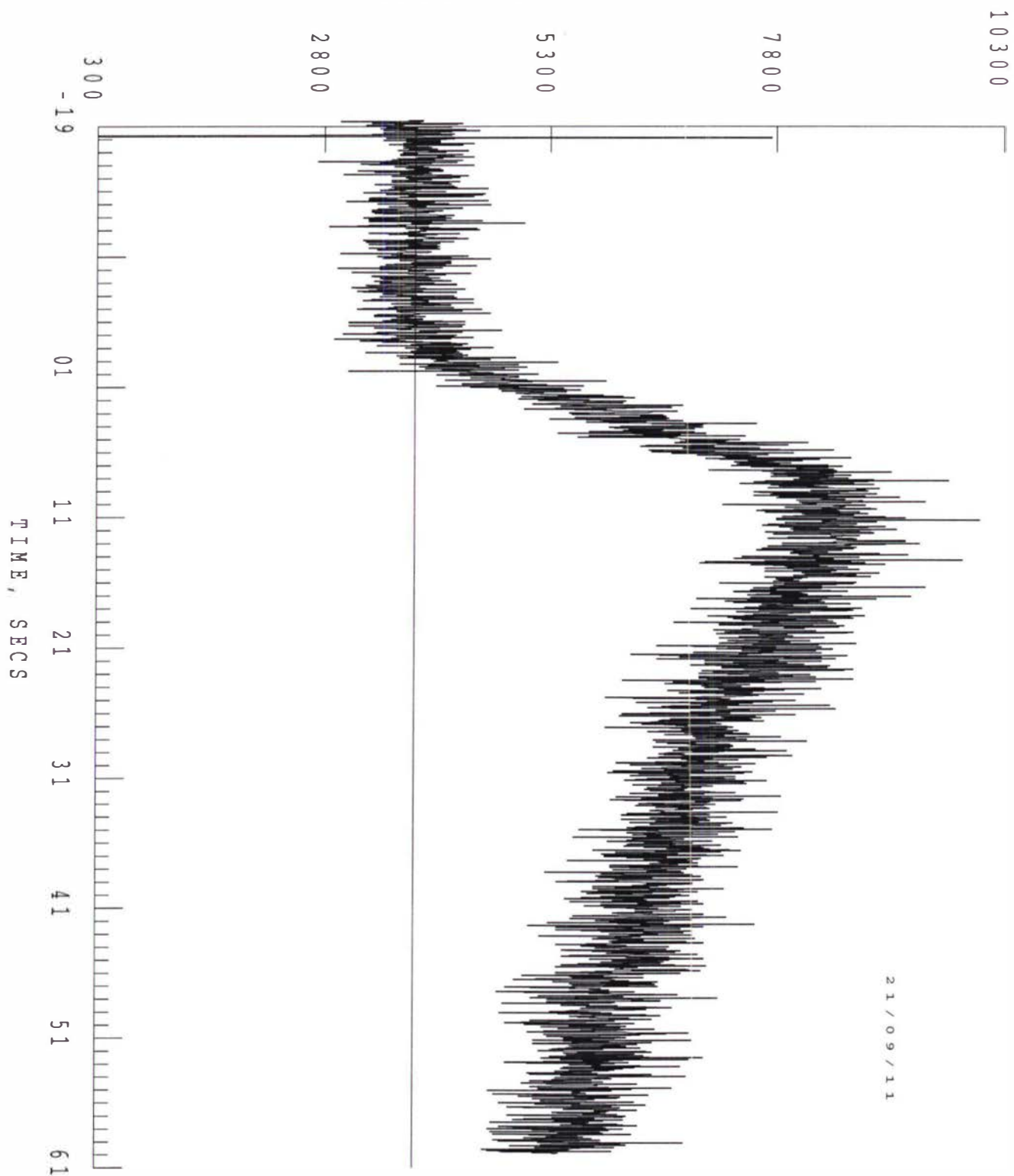
47143.812

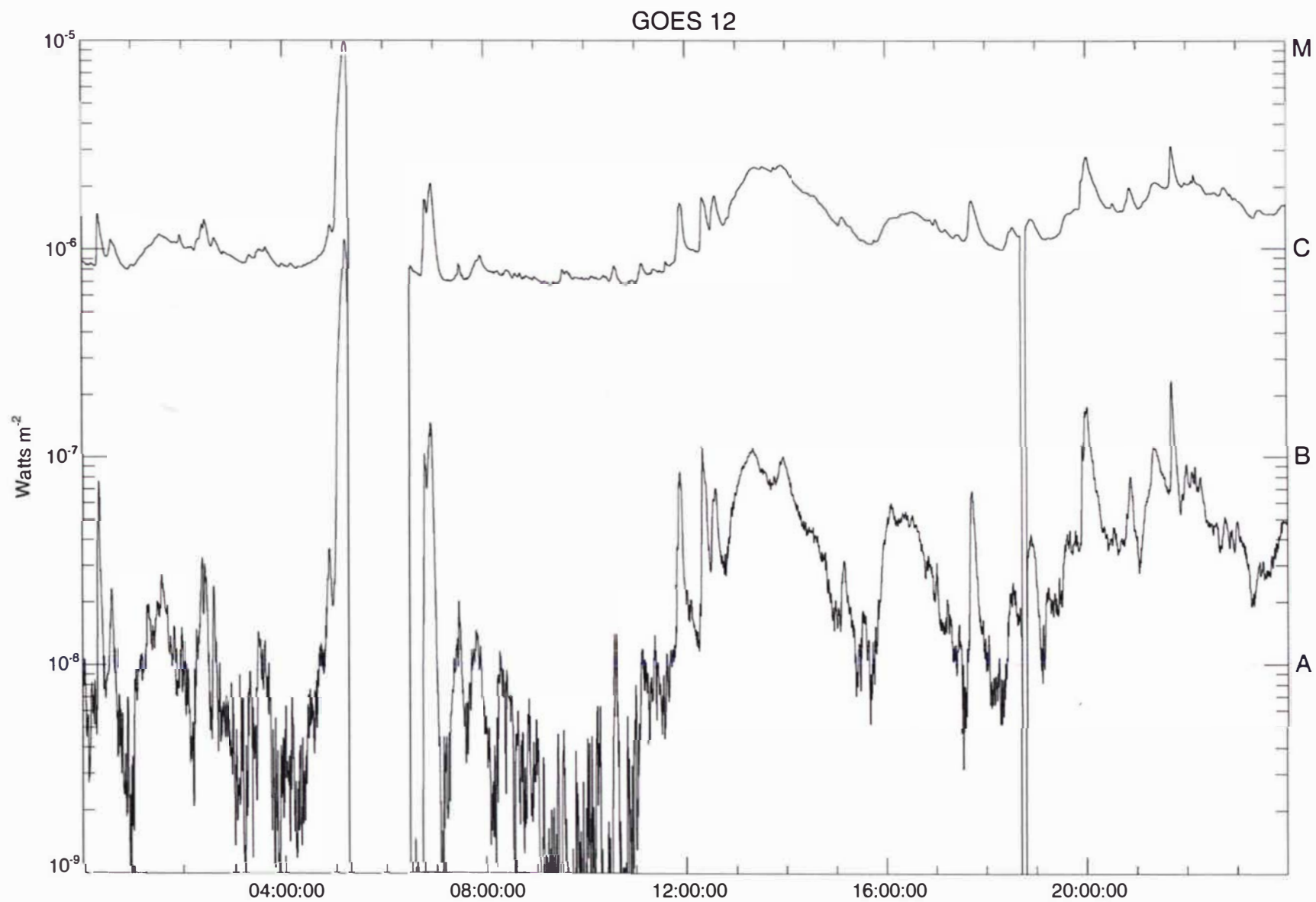
13:05:43

26- 293 keV

209.82 -26.44 1.0

COUNTS/0.032 S





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

Plot created: 11/09/23, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

22/09/11

MESSENGER

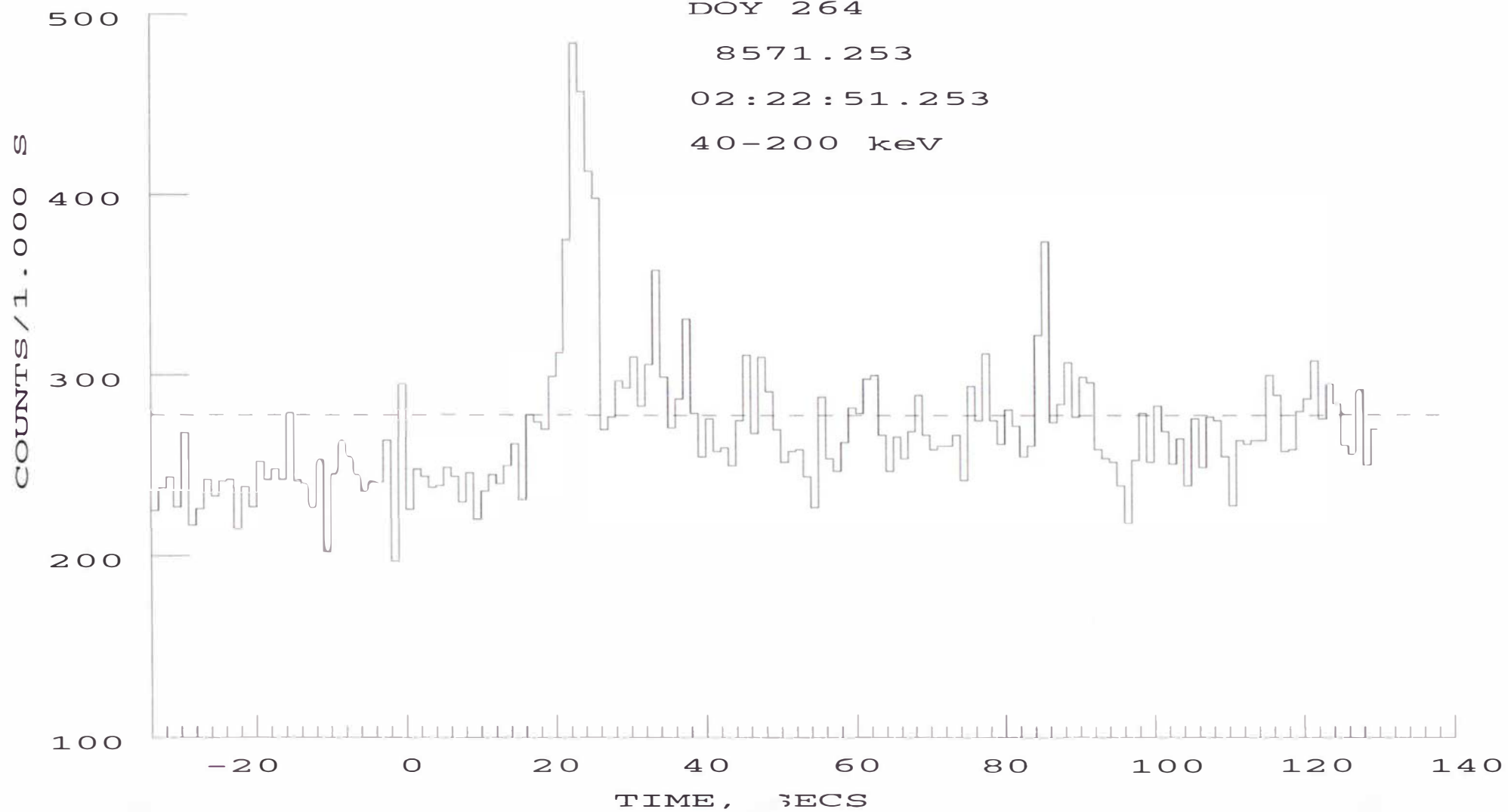
21/09/11

DOY 264

8571.253

02:22:51.253

40-200 keV



22/09/11

MESSENGER

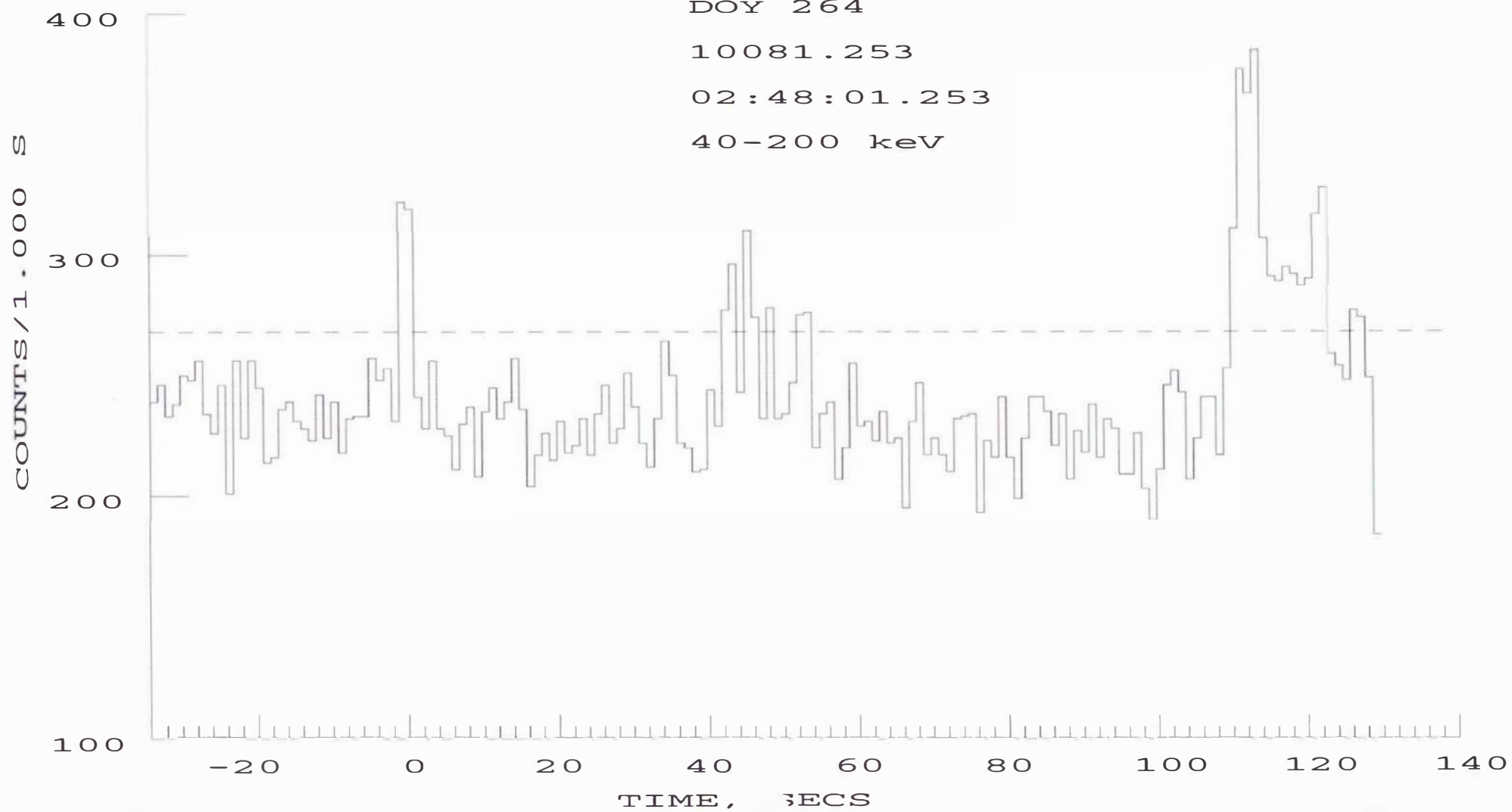
21/09/11

DOY 264

10081.253

02:48:01.253

40-200 keV



22/09/11

MESSENGER

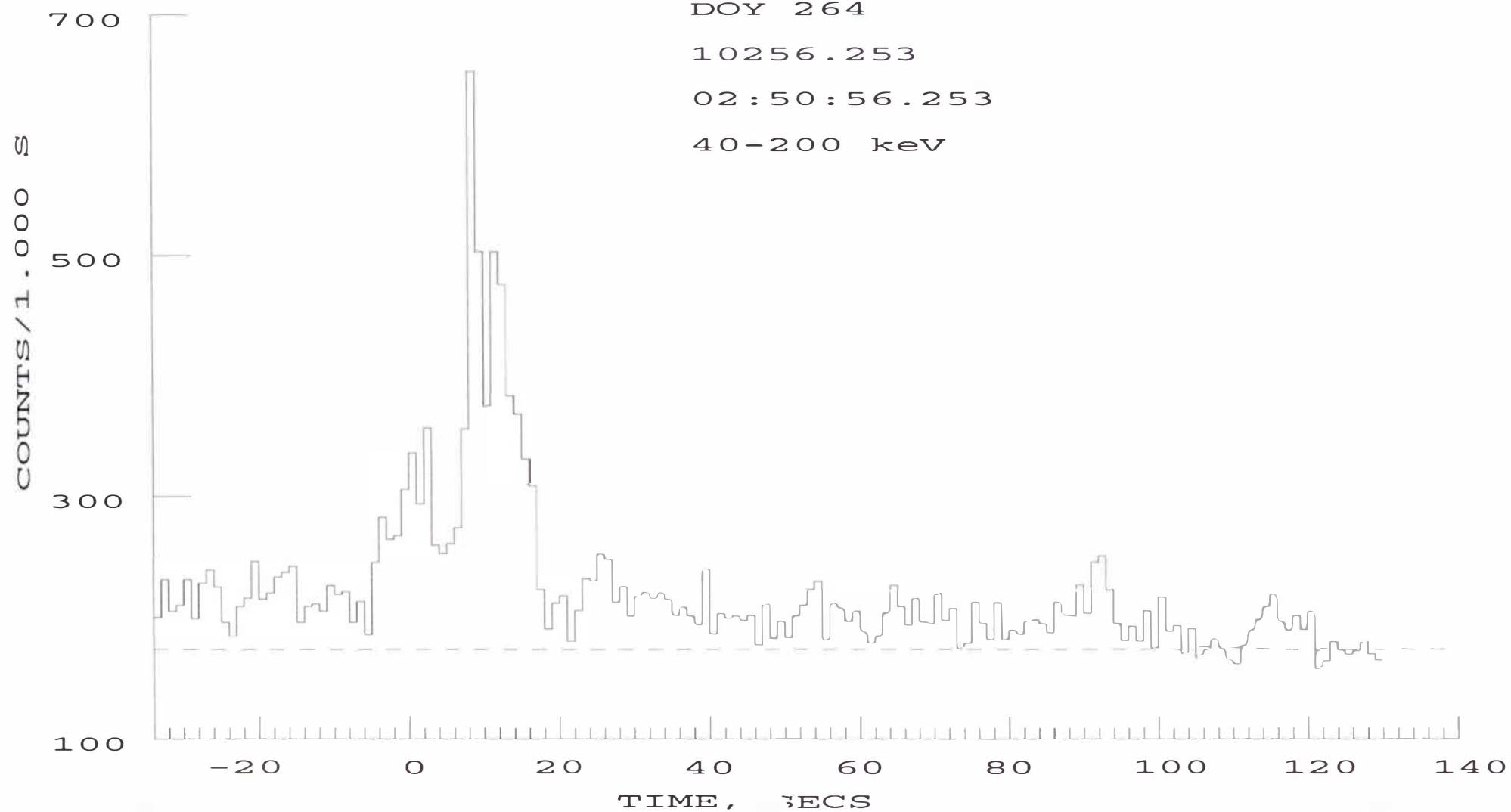
21/09/11

DOY 264

10256.253

02:50:56.253

40-200 keV



22/09/11

MESSENGER

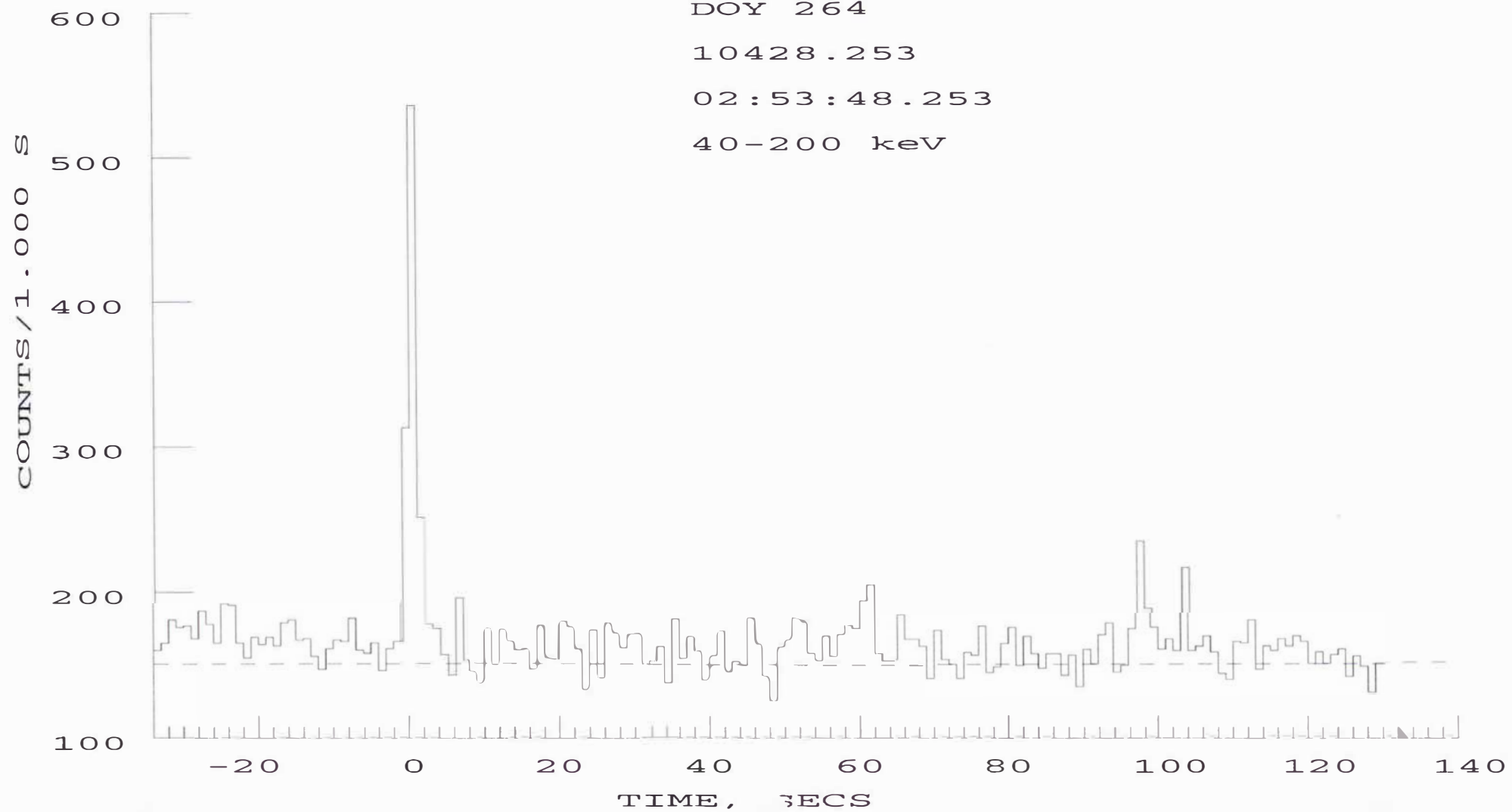
21/09/11

DOY 264

10428.253

02:53:48.253

40-200 keV



GLAST

21/09/11

38328.202

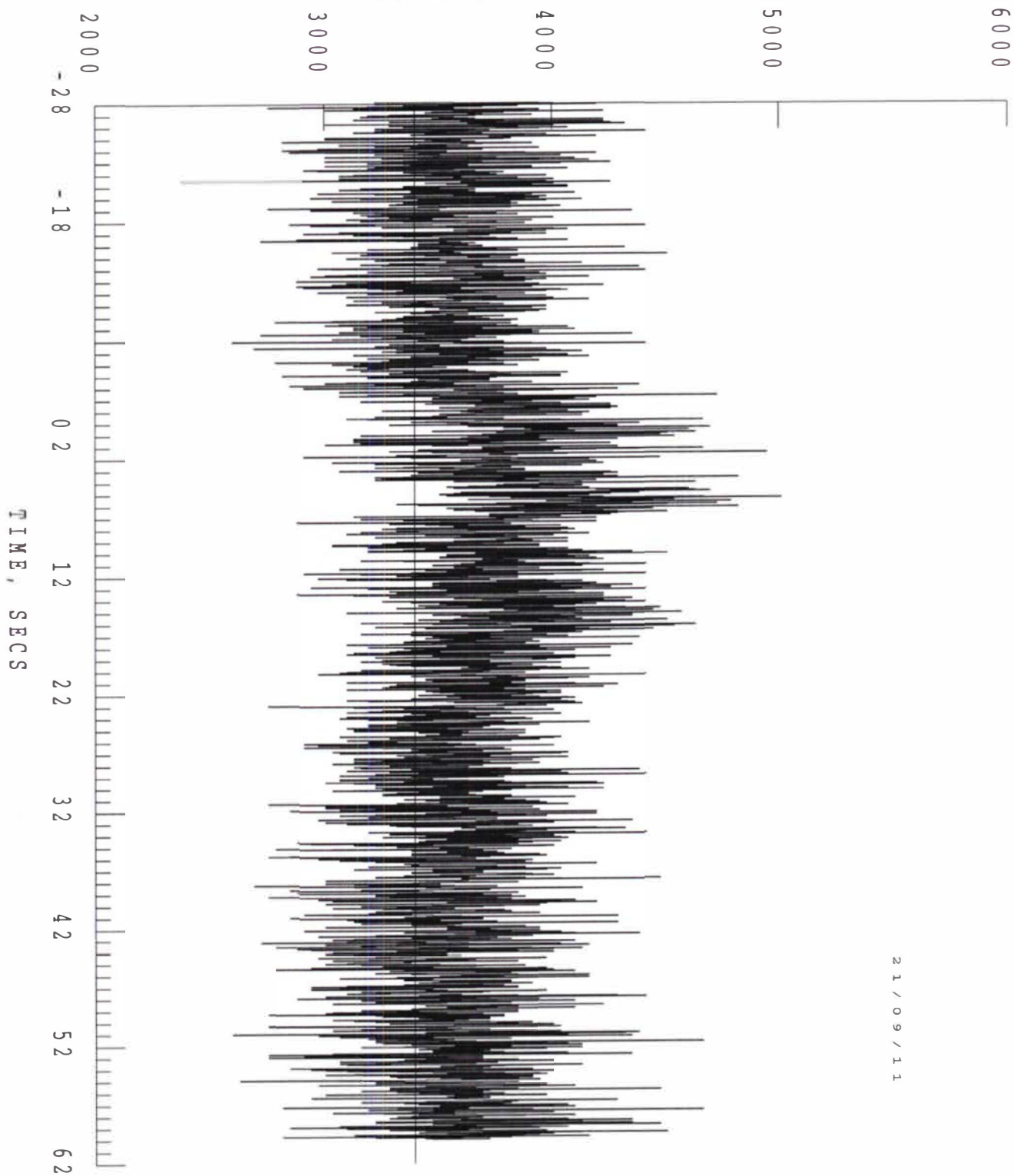
10:38:48

A

26- 293 keV

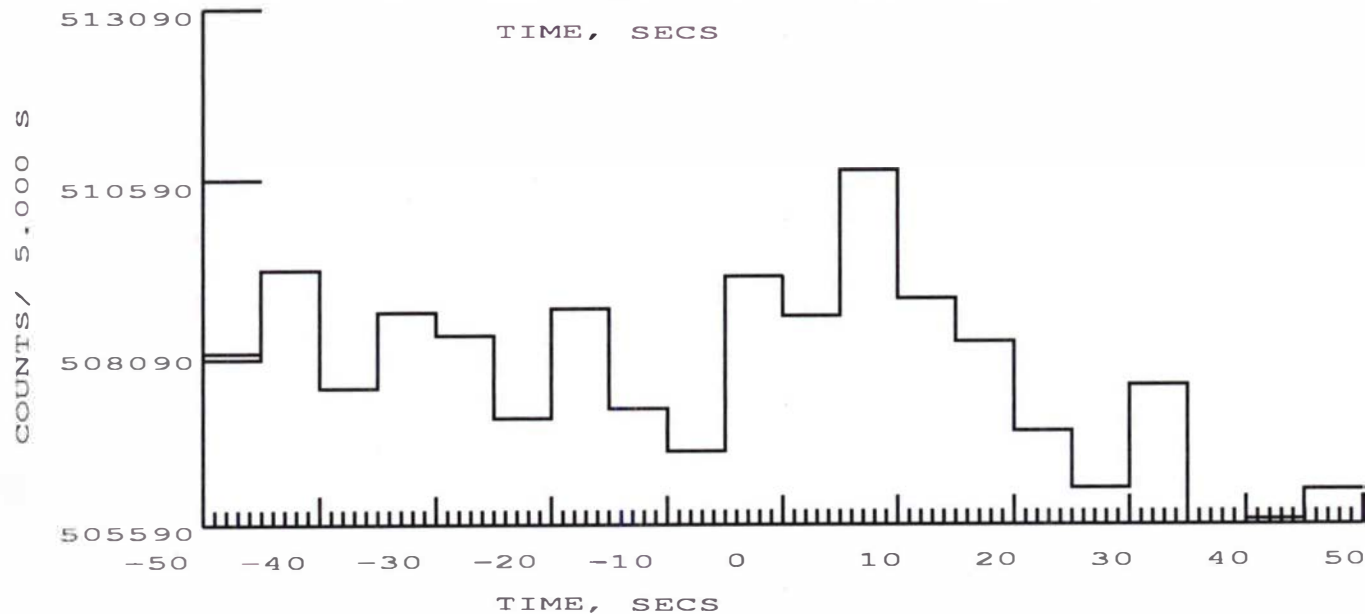
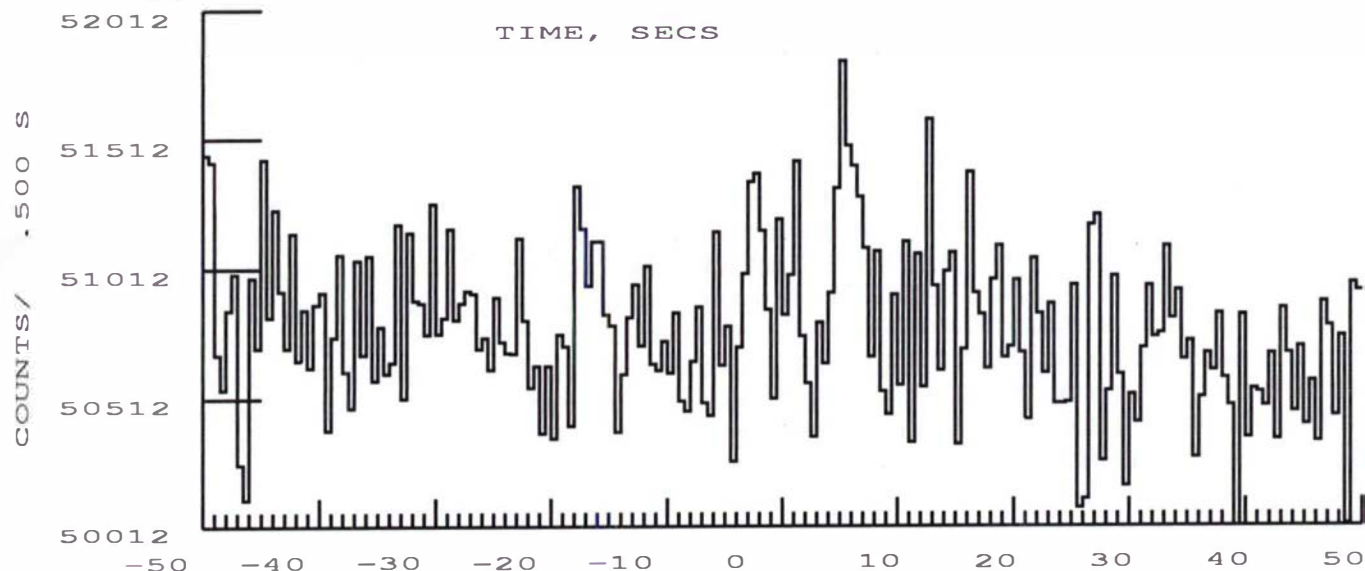
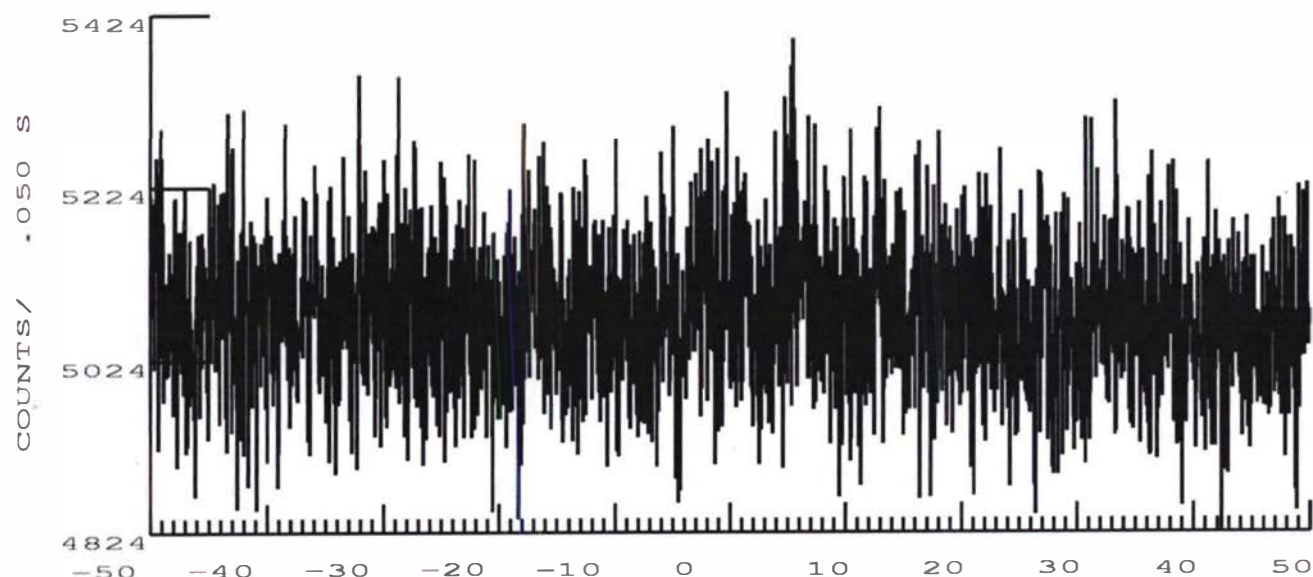
6.09 -4.17 7.31

COUNTS/0.032 S



A

INTEGRAL 21/09/11 38328.000 10:38:48.0 20/01/14



From williams@gammaburst.ssl.berkeley.edu Mon Sep 26 23:02:49 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 26 Sep 2011 23:02:15 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GLAST_20110921_38328
X-Ucb-Scan-Signature: 991484b05080665c06dda395f9b69e5364f43934
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 26-Sep-2011 23:03:59.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [Ipn] BAT lightcurve for trigger at 110921_1038

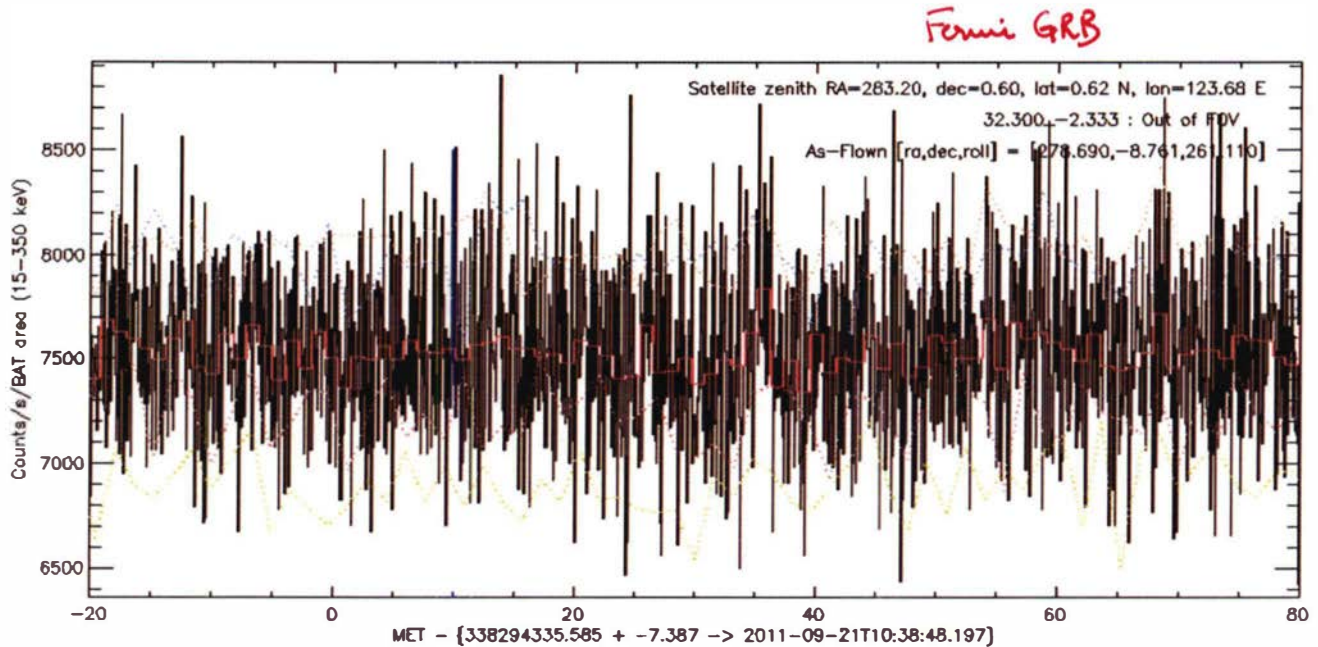
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 21 Sep 2011 08:19:13 -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/110921_1038.png



```
% /usr/local/bin/swinfo -o 338294335.583
Time(MET + UTCF -> UT): 338294335.584 + -7.387 -> 2011-09-21T10:38:48.196
Swift Zenith(RA,dec): 283.20, 0.60
Swift Location(lon,lat,alt): 123.68 E, 0.62 N, 590 km
Obs Sequence Number: 00032097003
Obs Target Name: Swift J1834.9-0846
Obs Date and Times: 2011-09-21 10:28:54 - 10:58:50
Obs Pointing(ra,dec,roll): 278.690, -8.761, 261.11
```

```
% /usr/local/bin/swinfo -o 338294335.583 -s 19.020_13.490
Time(MET + UTCF -> UT): 338294335.584 + -7.387 -> 2011-09-21T10:38:48.196
Swift Zenith(RA,dec): 283.20, 0.60
Swift Location(lon,lat,alt): 123.68 E, 0.62 N, 590 km
Obs Sequence Number: 00032097003
Obs Target Name: Swift J1834.9-0846
Obs Date and Times: 2011-09-21 10:28:54 - 10:58:50
Obs Pointing(ra,dec,roll): 278.690, -8.761, 261.11
19.020_13.490_imageloc (boresight_dist, angle): (102, 87)
19.020_13.490_exposure (cm2 cos adjusted): 0
19.020_13.490_altitude: 18 (depressed but unattenuated)
```

```
% /usr/local/bin/swinfo -o 338294335.584
Time(MET + UTCF -> UT): 338294335.585 + -7.387 -> 2011-09-21T10:38:48.197
Swift Zenith(RA,dec): 283.20, 0.60
Swift Location(lon,lat,alt): 123.68 E, 0.62 N, 590 km
```

```
% /usr/local/bin/swinfo -o 338294335.584 -s 32.300_-2.333
Time(MET + UTCF -> UT): 338294335.585 + -7.387 -> 2011-09-21T10:38:48.197
Swift Zenith(RA,dec): 283.20, 0.60
Swift Location(lon,lat,alt): 123.68 E, 0.62 N, 590 km
Obs Sequence Number: 00032097003
Obs Target Name: Swift J1834.9-0846
Obs Date and Times: 2011-09-21 10:28:54 - 10:58:50
Obs Pointing(ra,dec,roll): 278.690, -8.761, 261.11
32.300_-2.333_imageloc (boresight_dist, angle): (113, 105)
32.300_-2.333_exposure (cm2 cos adjusted): 0
32.300_-2.333_altitude: 5 (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/110921_1038.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110921_1038_bat64ms_ipn

/tmp/110921_1038_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
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MS01

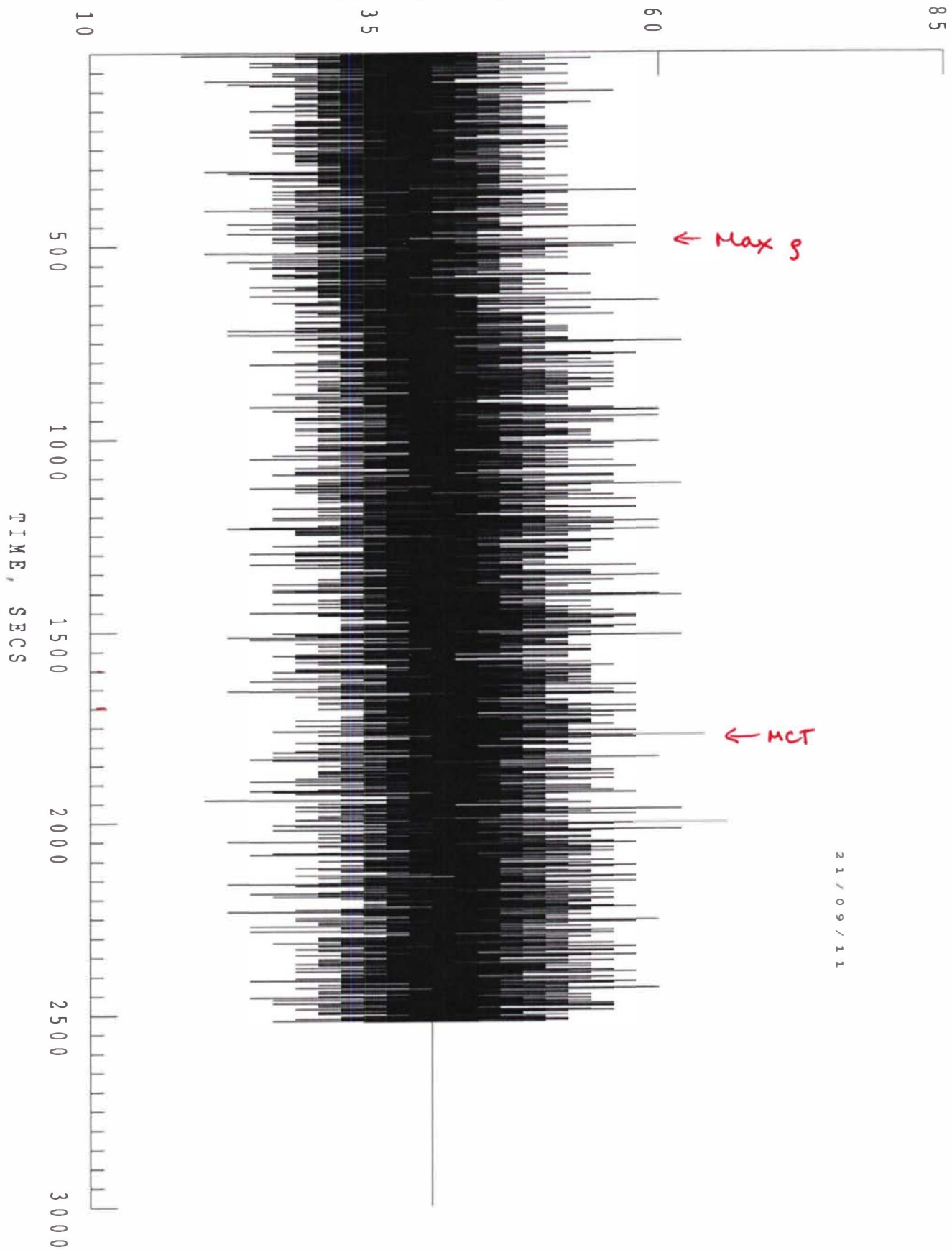
21/09/11

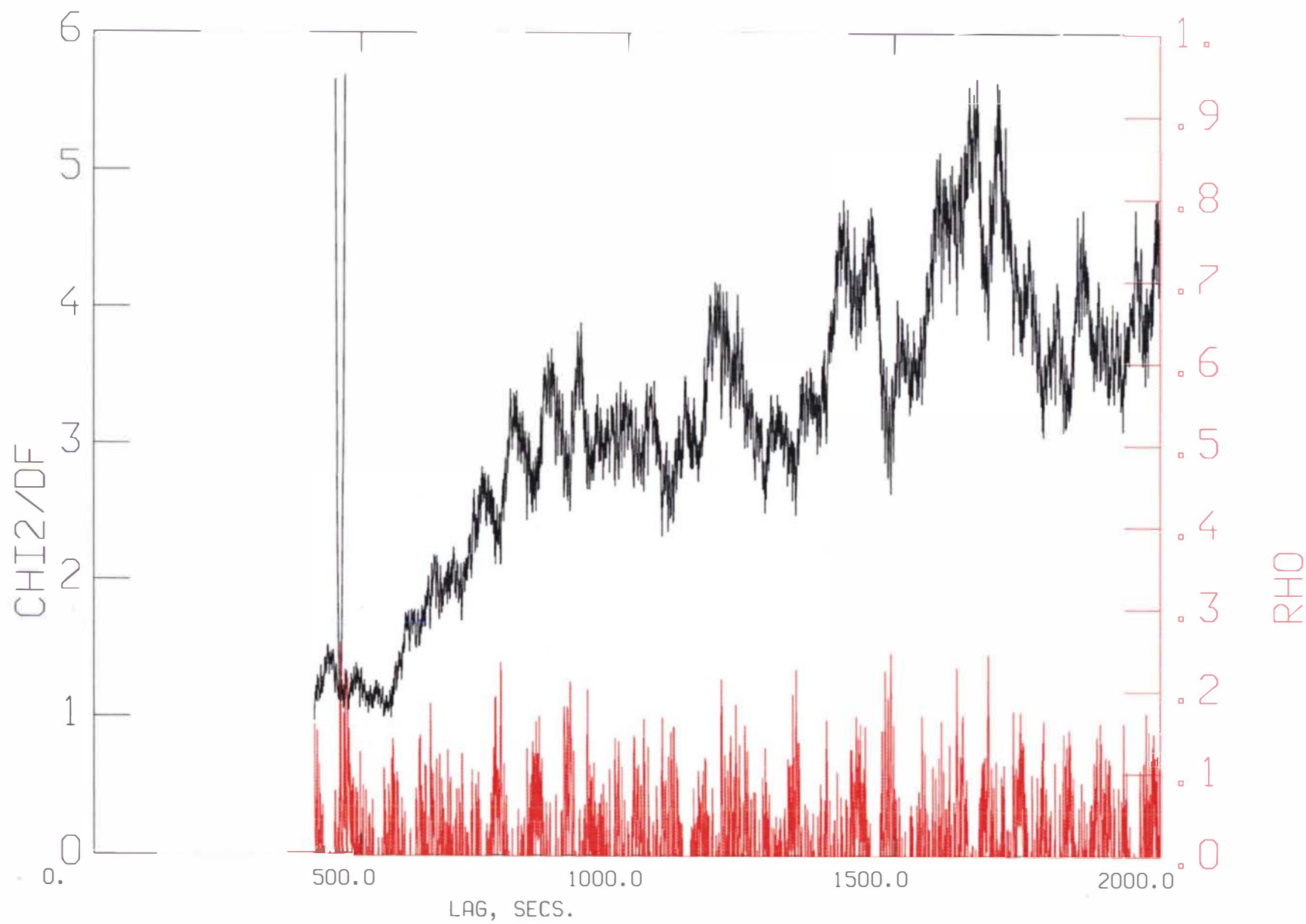
36980.683

A

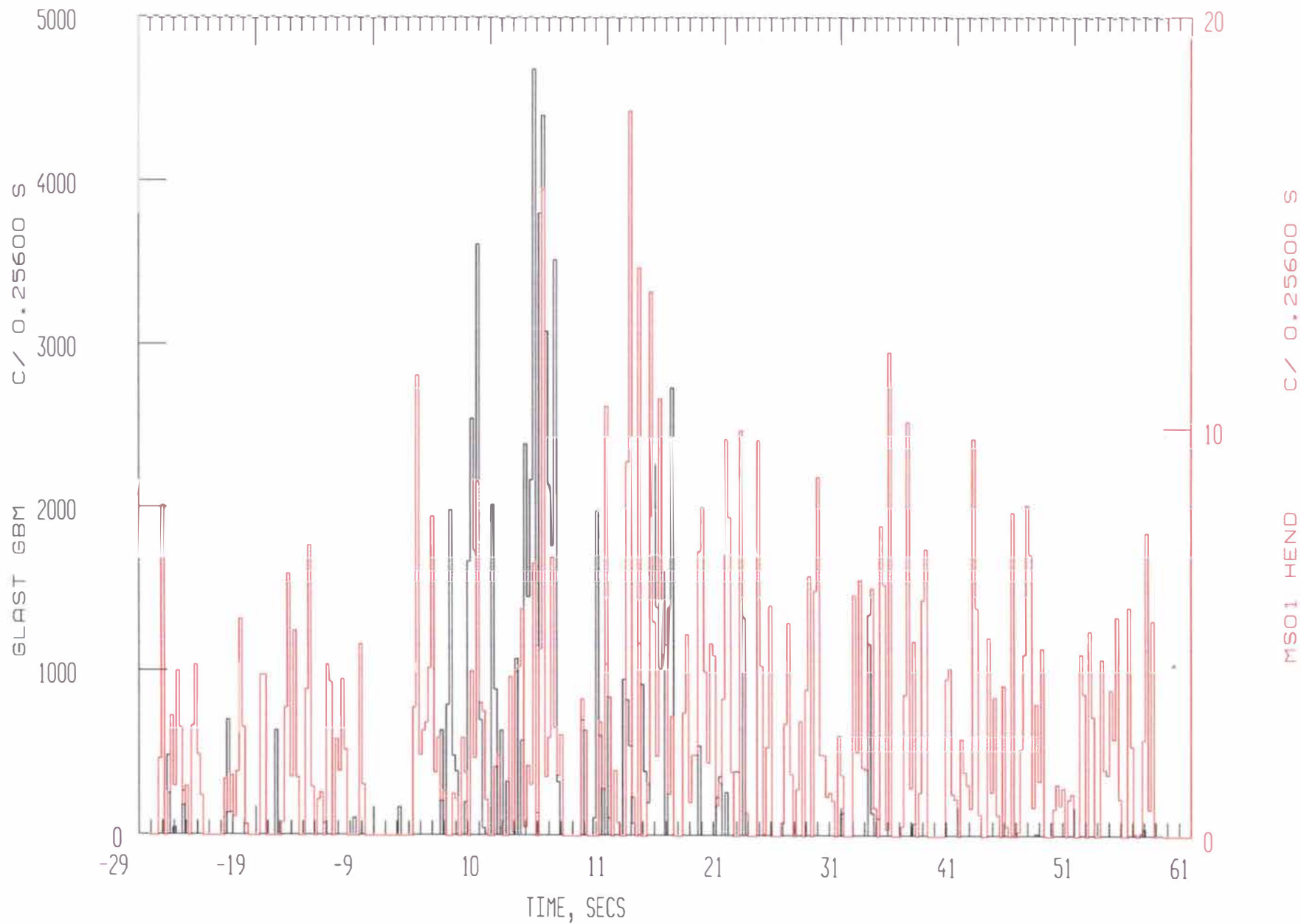
50 - 3000 keV

COUNTS/0.250 S





A



KONUS2

21/09/11

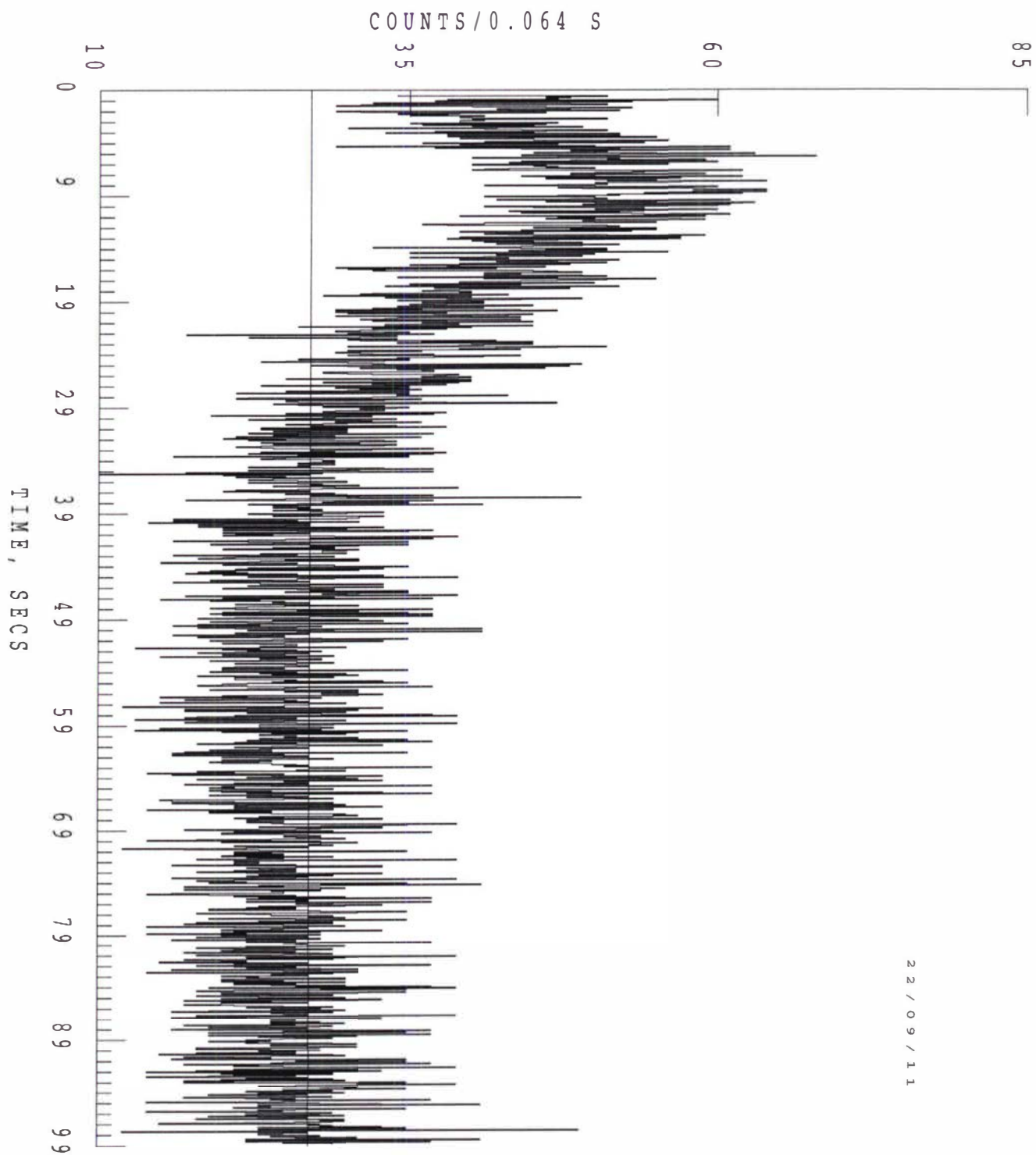
43644.166

12:07:24

B

50 - 200 keV

Solar



B

KONUS HRES 20110921 43644

TRIGGER TIME: 21/09/11 DOY 264 Julian 2455827.00514 UT = 12.123 12:07:24 (43644.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

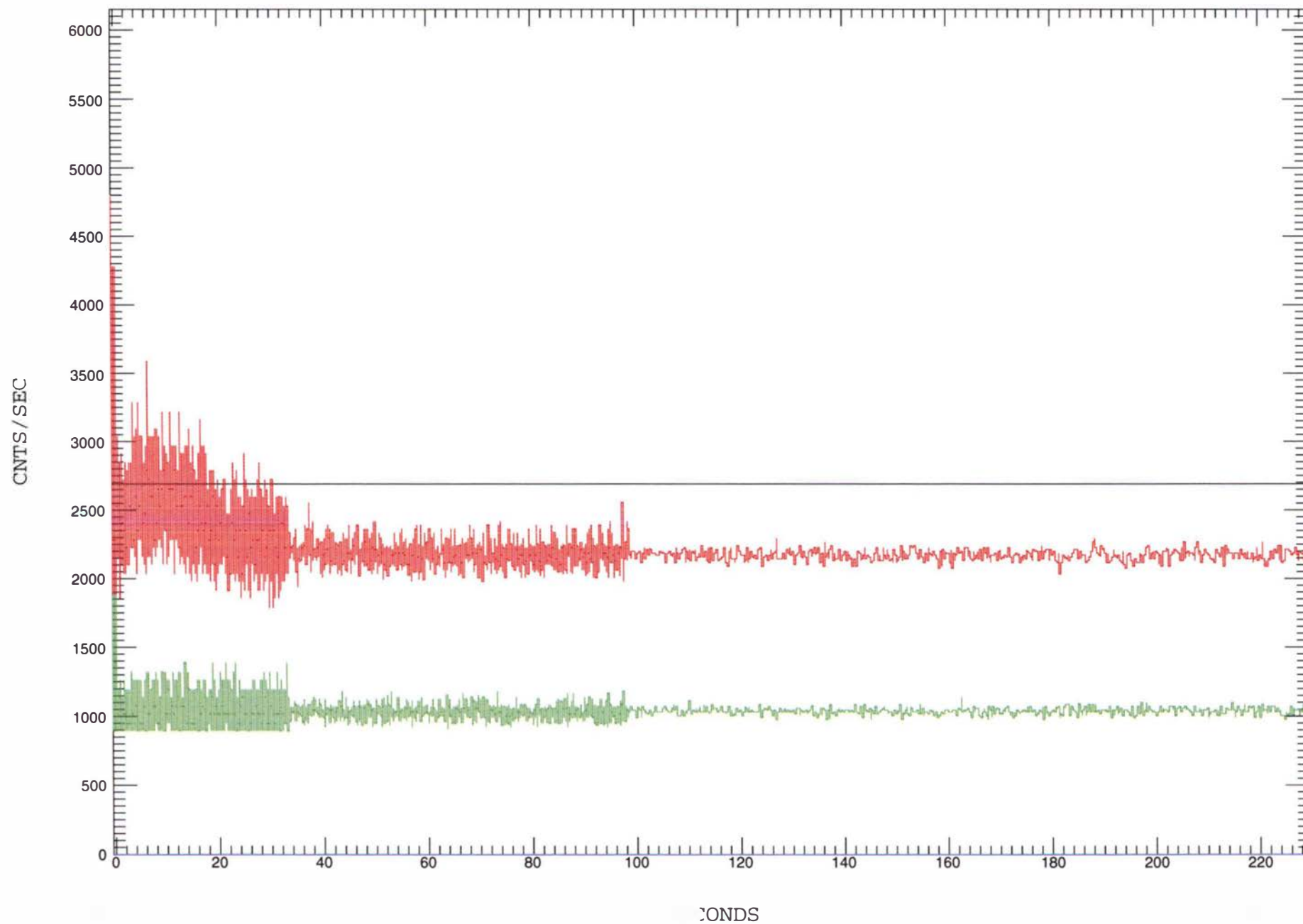
Chan 4 : [> 10 MeV]

Channel 1 + 2700

Channel 2 + 1800

Channel 3 + 900

Channel 4 + 0



13

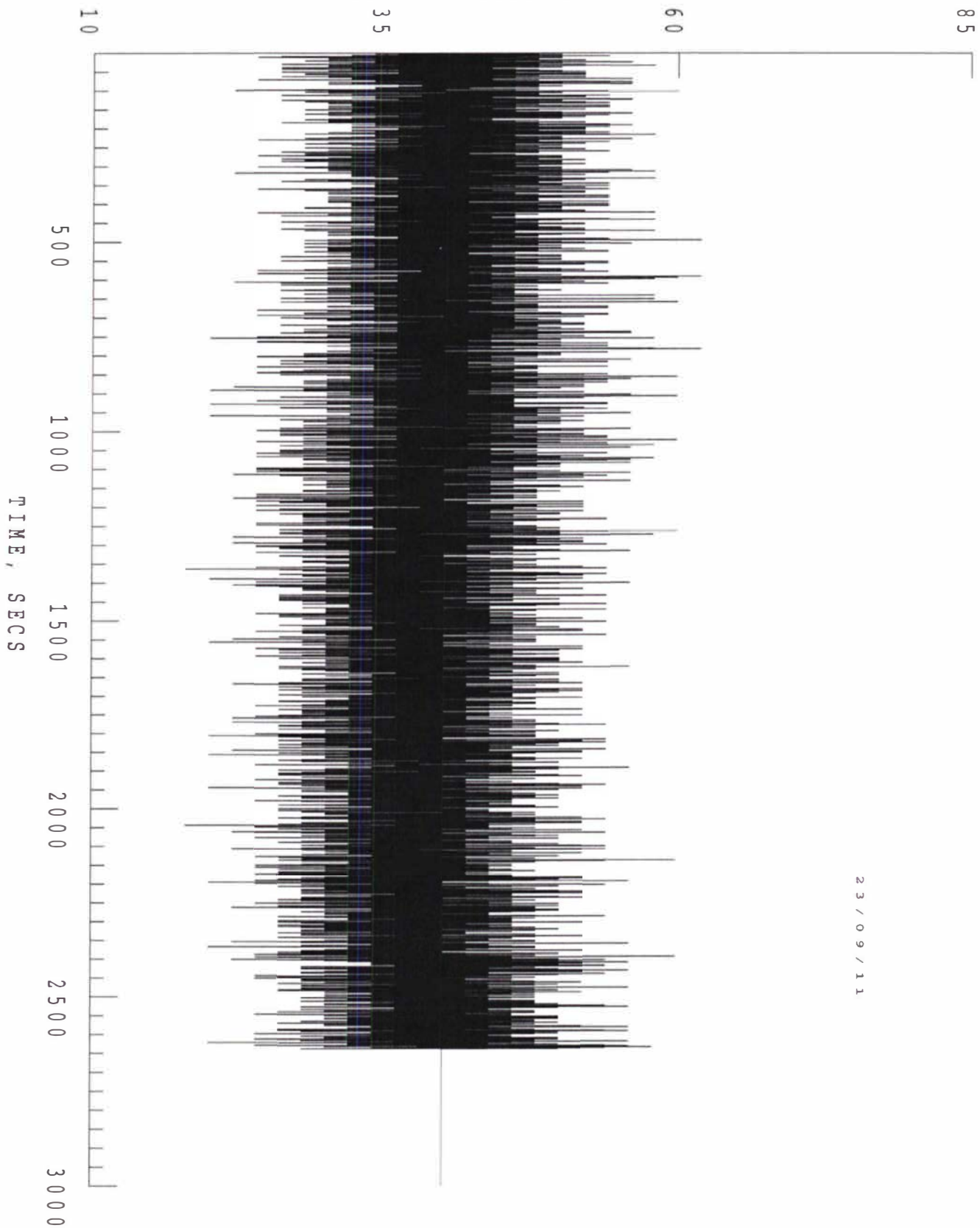
MS01

21/09/11

42320.597

50 - 3000 keV

COUNTS/0.250 S



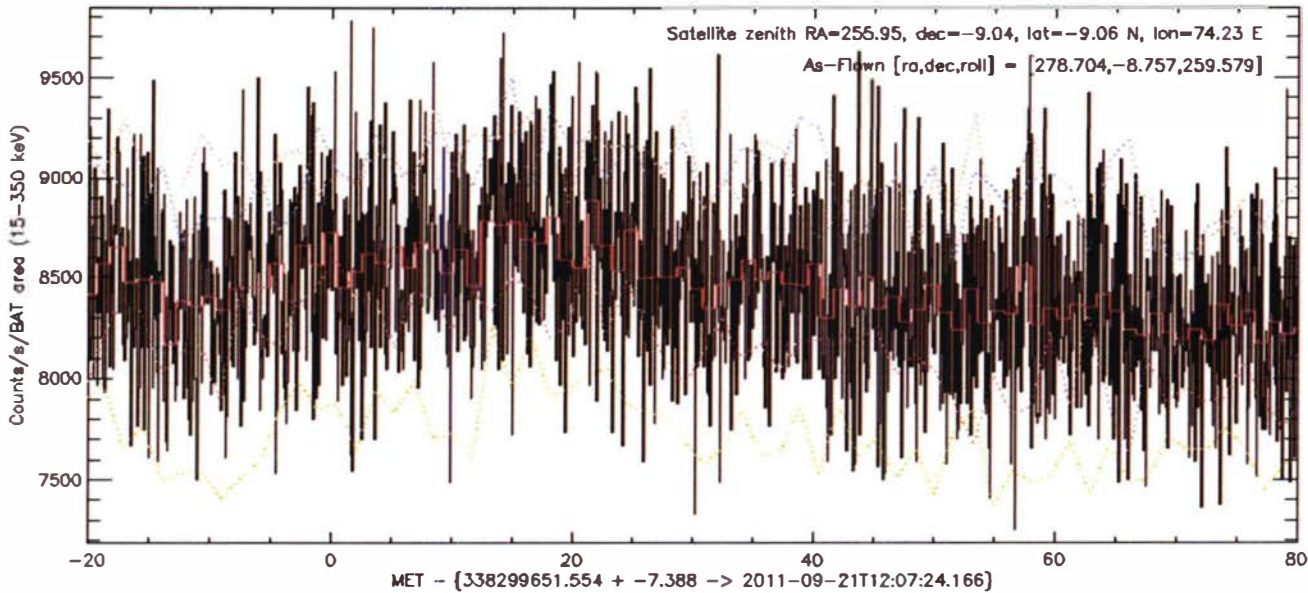
From williams@gammaburst.ssl.berkeley.edu Mon Sep 26 23:04:48 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 26 Sep 2011 23:04:15 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for KONUS2_20110921_43644
X-Ucb-Scan-Signature: 61c24f83c77180c25ddb14c0f4977194bcaf6fc1
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 26-Sep-2011 23:05:56.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [Ipn] BAT lightcurve for trigger at 110921_1207
From: palmer+automatic_lightcurve@lanl.gov
Date: Thu, 22 Sep 2011 20:29:31 -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/110921_1207.png



```
% /usr/local/bin/swinfo -o 338299651.554
Time(MET + UTCF -> UT):      338299651.554 + -7.388 -> 2011-09-21T12:07:24.166
Swift Zenith(RA,dec):        255.95, -9.04
Swift Location(lon,lat,alt):  74.23 E, -9.06 N, 587 km
Obs Sequence Number:         00032097003
Obs Target Name:              Swift J1834.9-0846
Obs Date and Times:           2011-09-21 12:04:54 - 12:34:50
Obs Pointing(ra,dec,roll):    278.704, -8.757, 259.58
```

--
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/110921_1207.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110921_1207_bat64ms_ipn

/tmp/110921_1207_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

From vxw@capella2.gsfc.nasa.gov Wed Sep 21 06:53:02 2011
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
Date: Wed, 21 Sep 2011 09:55:14 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 44a0a49315ef60d1693d70dab2c8d0164a259af7
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
NOTICE_DATE: Wed 21 Sep 11 13:55:13 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 503652, Seg_Num: 0
GRB_RA: 294.078d {+19h 36m 19s} (J2000),
294.184d {+19h 36m 44s} (current),
293.624d {+19h 34m 30s} (1950)
GRB_DEC: +36.377d {+36d 22' 36"} (J2000),
+36.403d {+36d 24' 13"} (current),
+36.264d {+36d 15' 51"} (1950)
GRB_DATE: 15825 TJD; 264 DOY; 11/09/21
GRB_TIME: 49880.16 SOD {13:51:20.16} UT
TRIGGER_INDEX: 303
GRB_PHI: 22.87 [deg]
GRB_THETA: 47.39 [deg]
DELTA_TIME: 45.00 [sec]
TRIGGER_DUR: 4.096 [sec]
SOLN_STATUS: 0x3
RATE_SIGNIF: 15.03 [sigma]
MAGE_SIGNIF: 9.66 [sigma]
C_URL: sw00503652000msb.lc
SUN_POSTN: 178.38d {+11h 53m 32s} +0.70d {+00d 42' 02"}
SUN_DIST: 110.06 [deg] Sun_angle= -7.7 [hr] (East of Sun)
MOON_POSTN: 100.69d {+06h 42m 46s} +21.07d {+21d 04' 23"}
MOON_DIST: 121.13 [deg]
MOON_ILLUM: 40 [%]
GAL_COORDS: 70.12, 7.53 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 306.84, 56.78 [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 = 76.68,1.54 [deg].

EC

48s

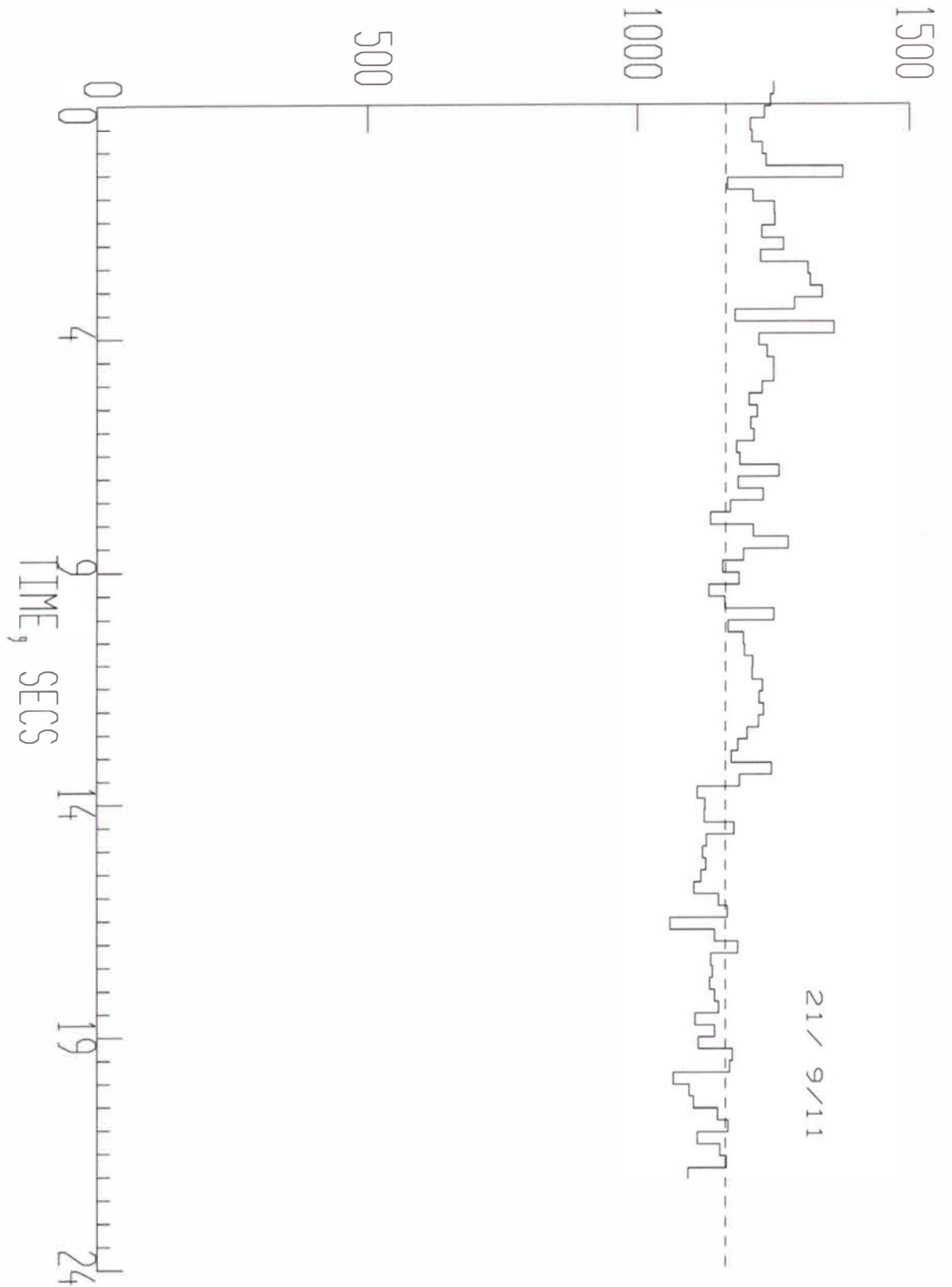
$2.4 \times 10^{-6} \text{ erg cm}^{-2}$

.2 phot/cm²s

BC

SWIFT 21/09/11 49880.164
25- 100 keV

COUNTS/0.256 S



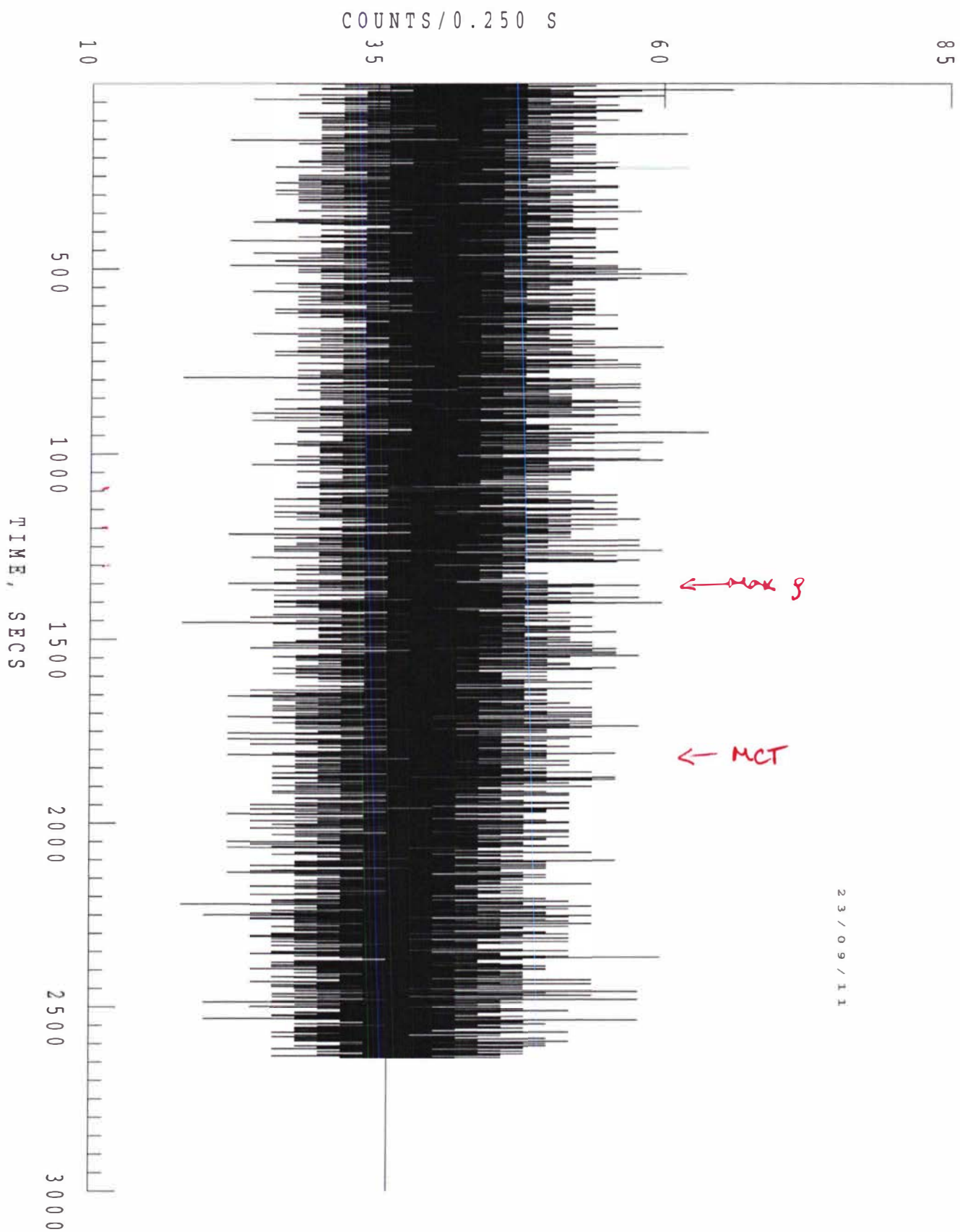
MS01

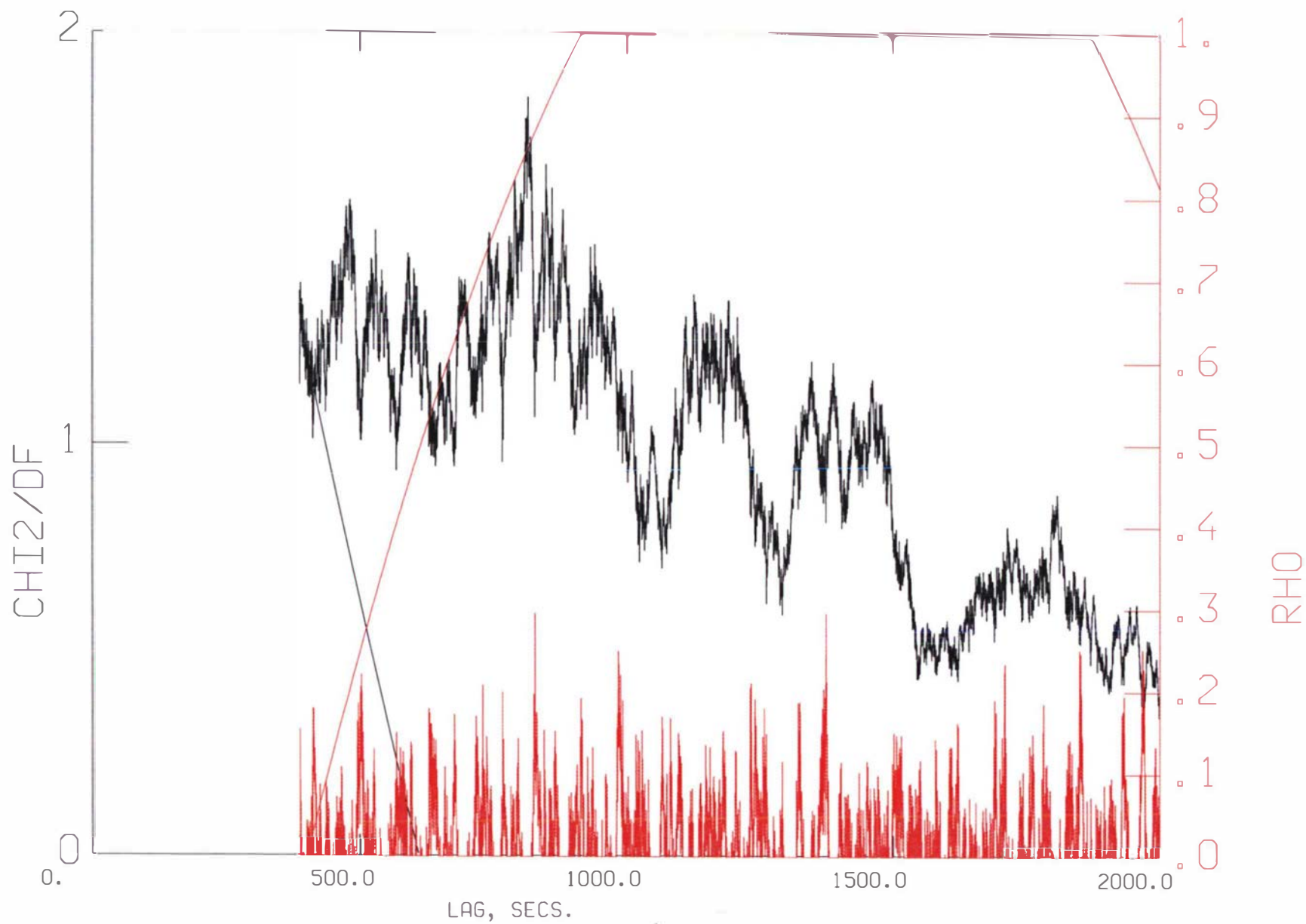
21/09/11

48560.478

C

50 - 3000 keV

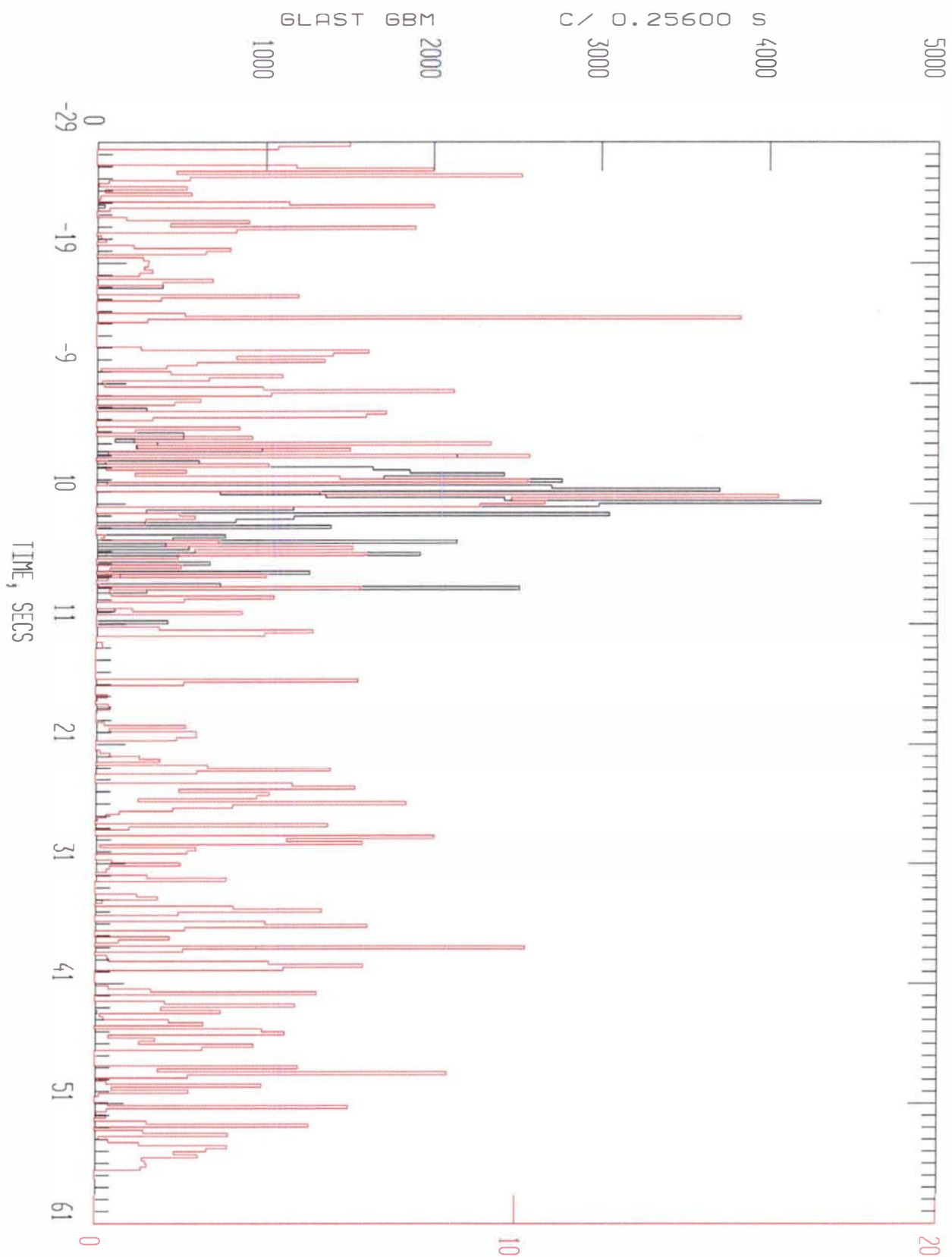




C

GLAST GBM -MS01 HEND CORRELATION 21/09/11 49882.571

2/12/11



C

From williams@gammaburst.ssl.berkeley.edu Mon Sep 26 23:06:44 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 26 Sep 2011 23:06:10 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for INTEGRAL 20110921_49880
X-Ucb-Scan-Signature: ad22bb0d6e9db94d1d08d4751f42630355a931fb
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 26-Sep-2011 23:07:54.00
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

BC

Subject: [lpn] BAT lightcurve for trigger at 110921_1351

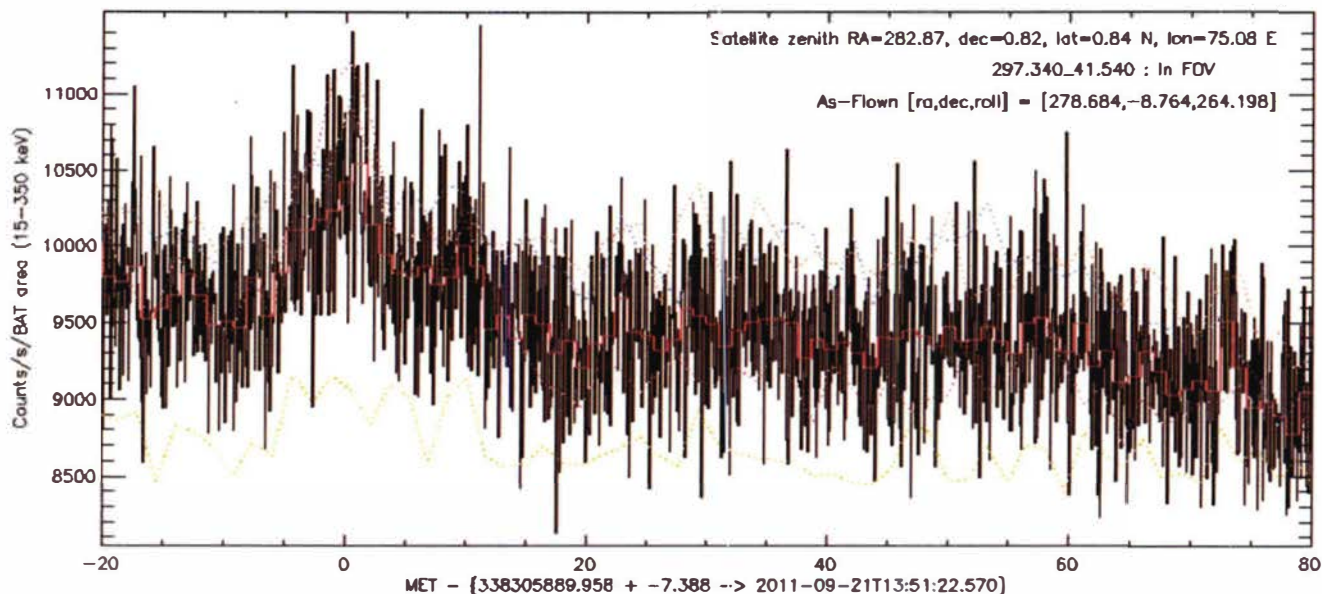
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 22 Sep 2011 09:42:26 -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/110921_1351.png



```
% /usr/local/bin/swinfo -o 338305889.958 -s 296.600_47.850
Time(MET + UTCF -> UT): 338305889.958 + -7.388 --> 2011-09-21T13:51:22.570
Swift Zenith(RA,dec): 282.87, 0.82
Swift Location(lon,lat,alt): 75.08 E, 0.84 N, 590 km
Obs Sequence Number: 00032097003
Obs Target Name: Swift J1834.9-0846
Obs Date and Times: 2011-09-21 13:40:54 - 13:51:55
Obs Pointing(ra,dec,roll): 278.684, -8.764, 264.20
296.600_47.850_imageloc (boresight_dist, angle): (59, 20)
296.600_47.850_exposure (cm^2 cos adjusted): 7
296.600_47.850_altitude: 65 (up)

% /usr/local/bin/swinfo -o 338305889.958 -s 297.340_41.540
Time(MET + UTCF -> UT): 338305889.958 + -7.388 --> 2011-09-21T13:51:22.570
Swift Zenith(RA,dec): 282.87, 0.82
Swift Location(lon,lat,alt): 75.08 E, 0.84 N, 590 km
Obs Sequence Number: 00032097003
Obs Target Name: Swift J1834.9-0846
Obs Date and Times: 2011-09-21 13:40:54 - 13:51:55
Obs Pointing(ra,dec,roll): 278.684, -8.764, 264.20
297.340_41.540_imageloc (boresight_dist, angle): (53, 23)
297.340_41.540_exposure (cm^2 cos adjusted): 279
297.340_41.540_altitude: 71 (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/110921_1351.png Content-Type: image/png

Content-Encoding: base64

/tmp/110921_1351_bat64ms_ipn

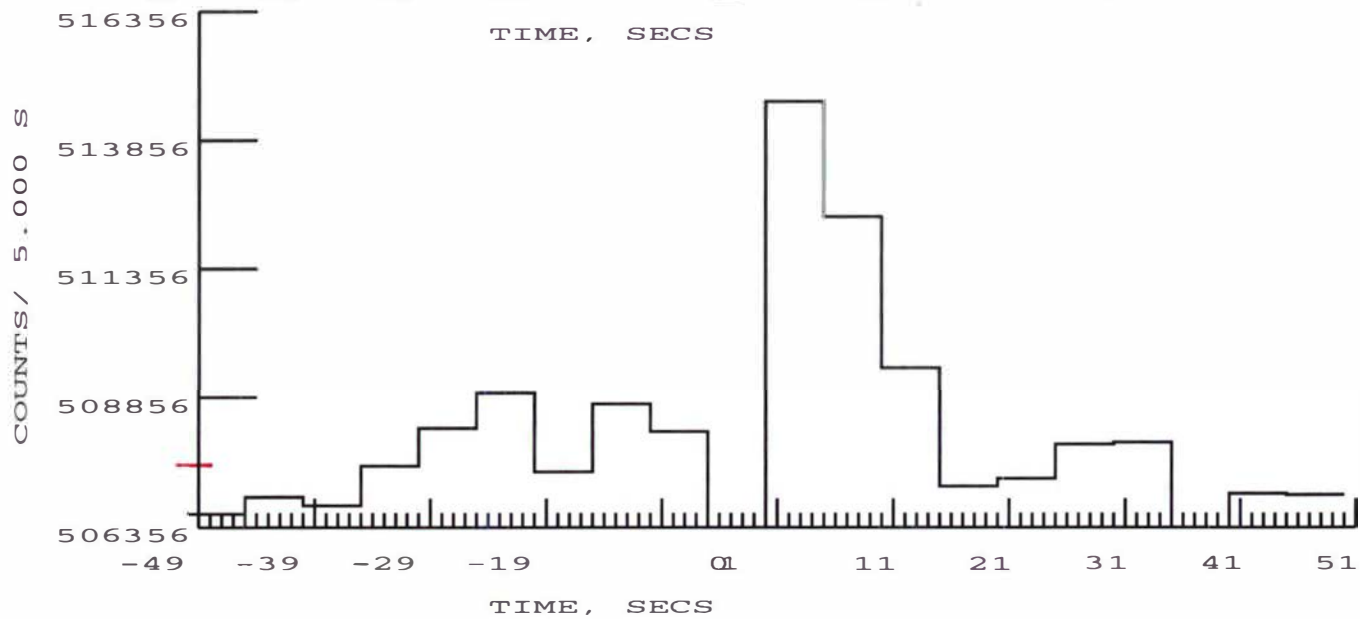
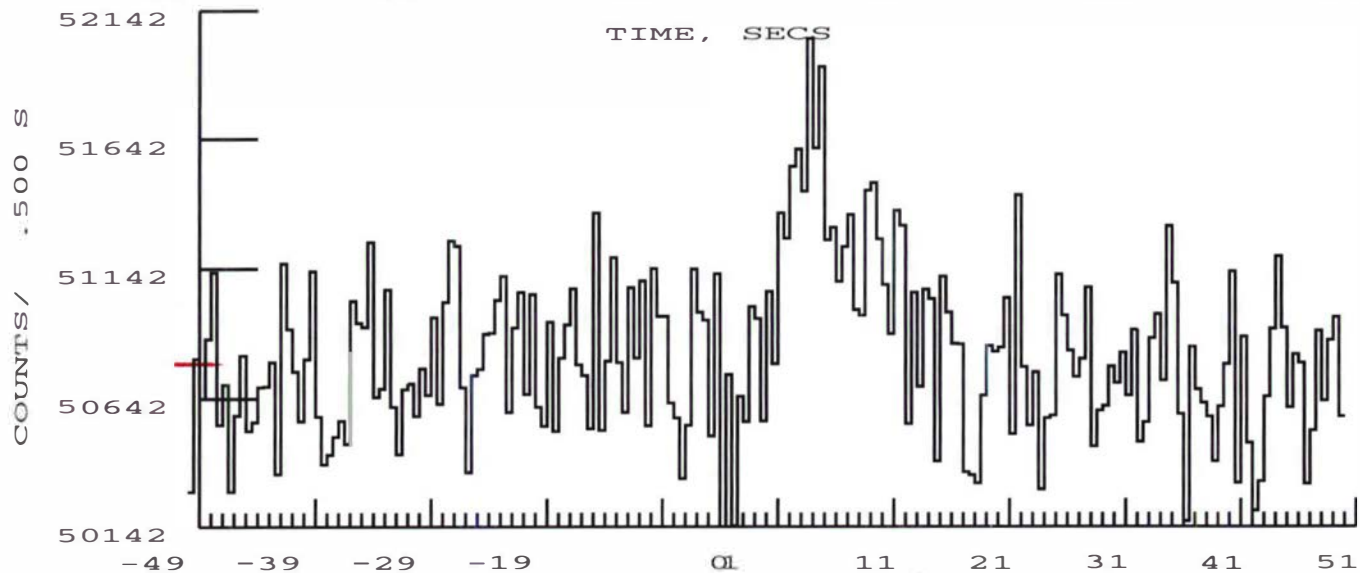
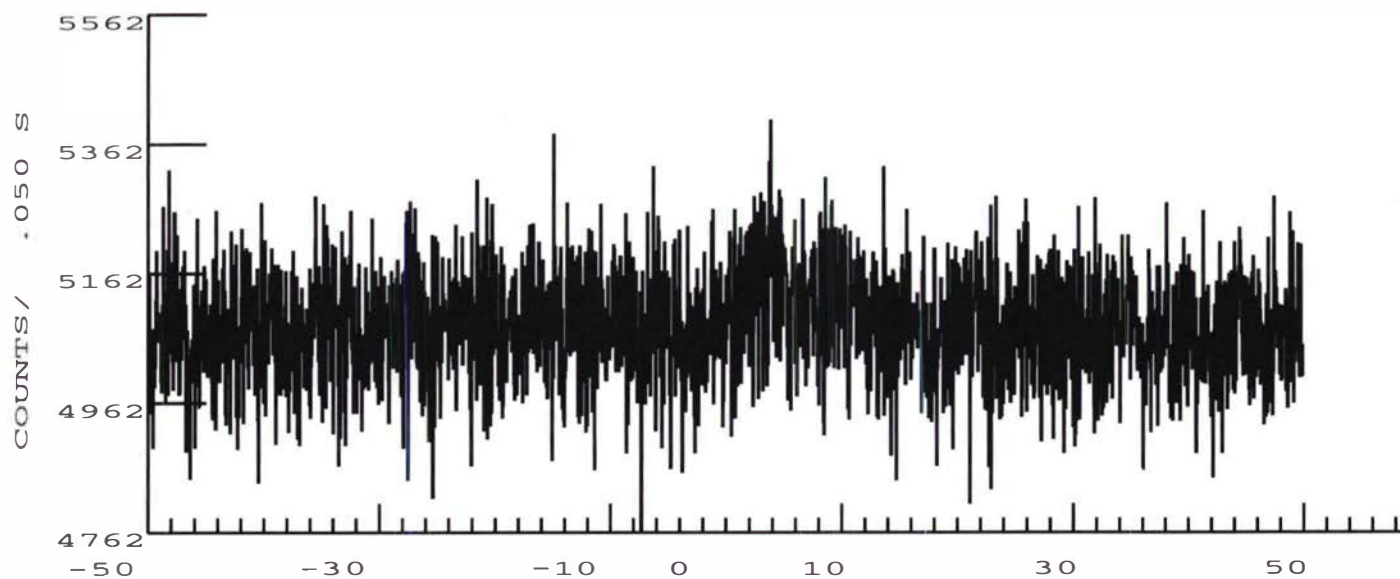
/tmp/110921_1351_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

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

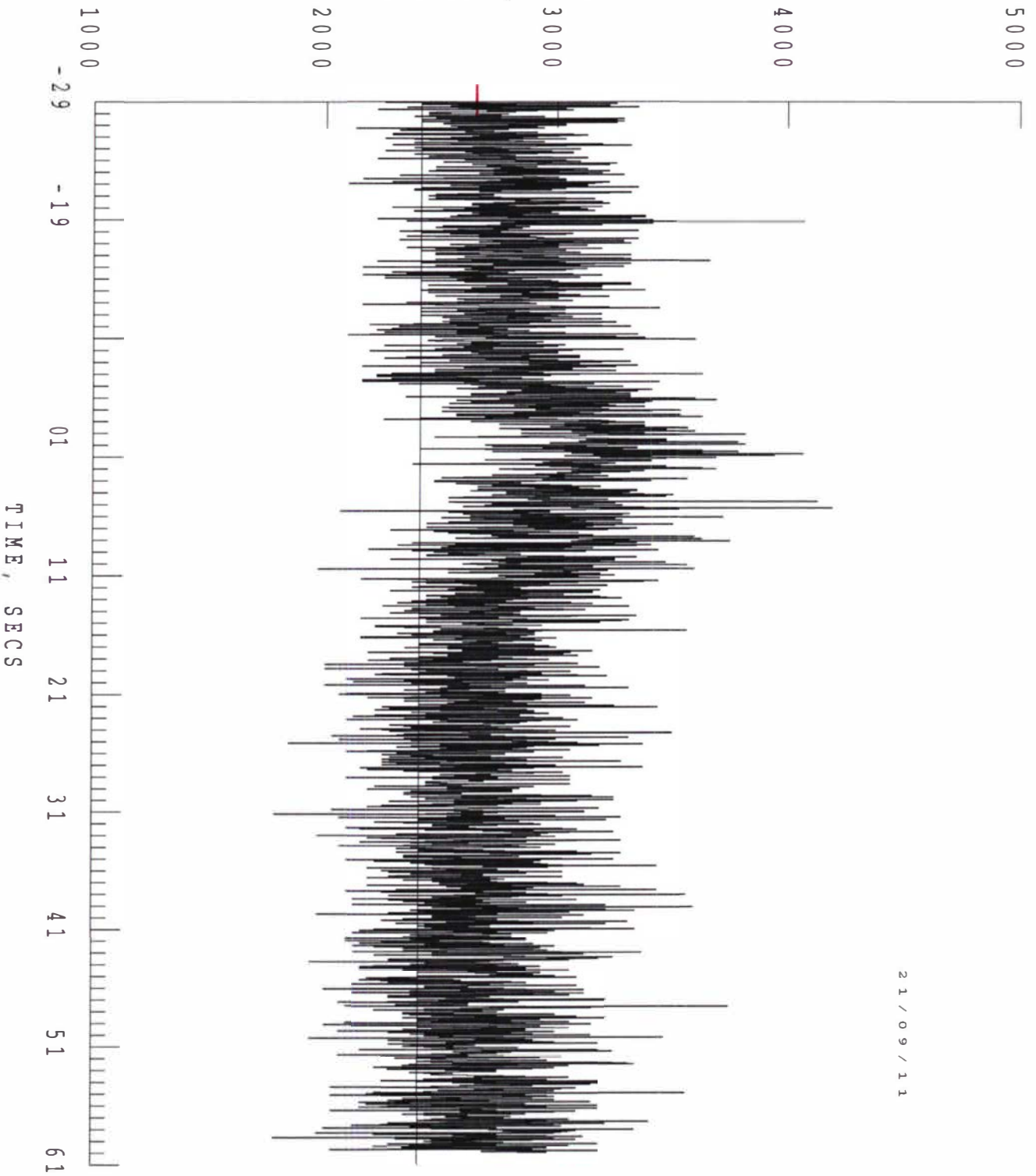
21/09/11

49882.571

2

26- 293 keV

COUNTS/0.032 S



Date: Jul 22 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/PS_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?

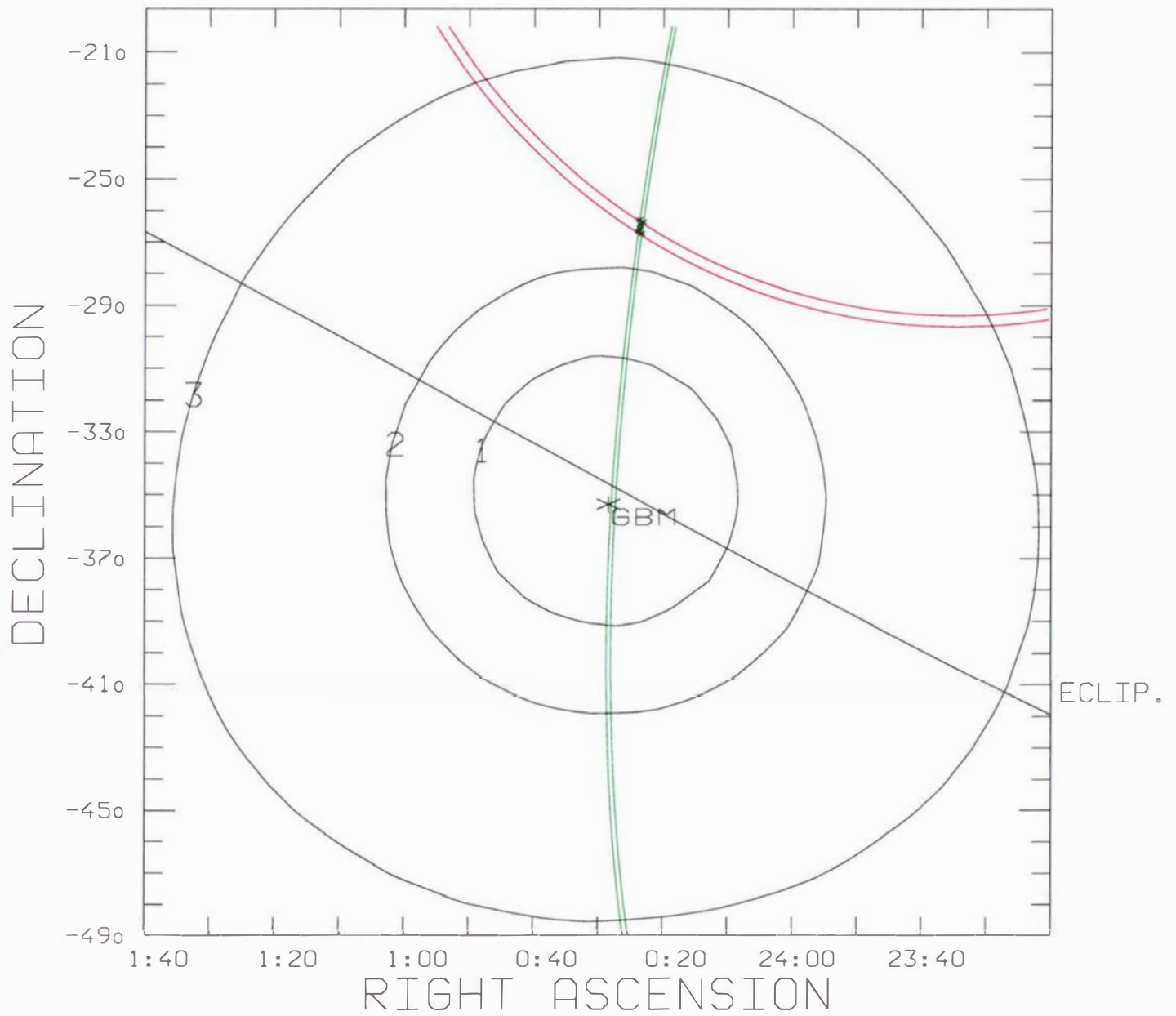
7. For INTEGRAL events

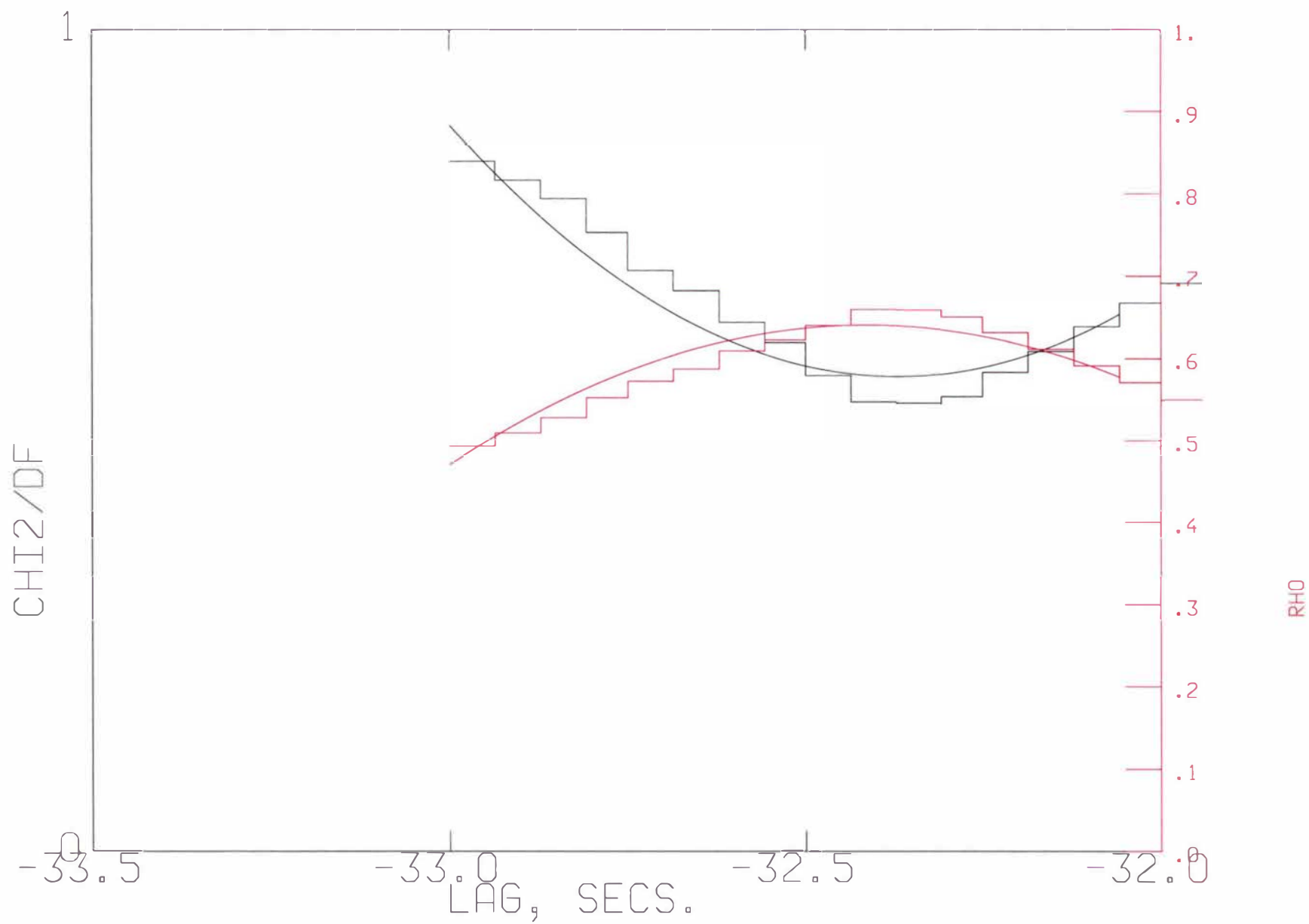
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

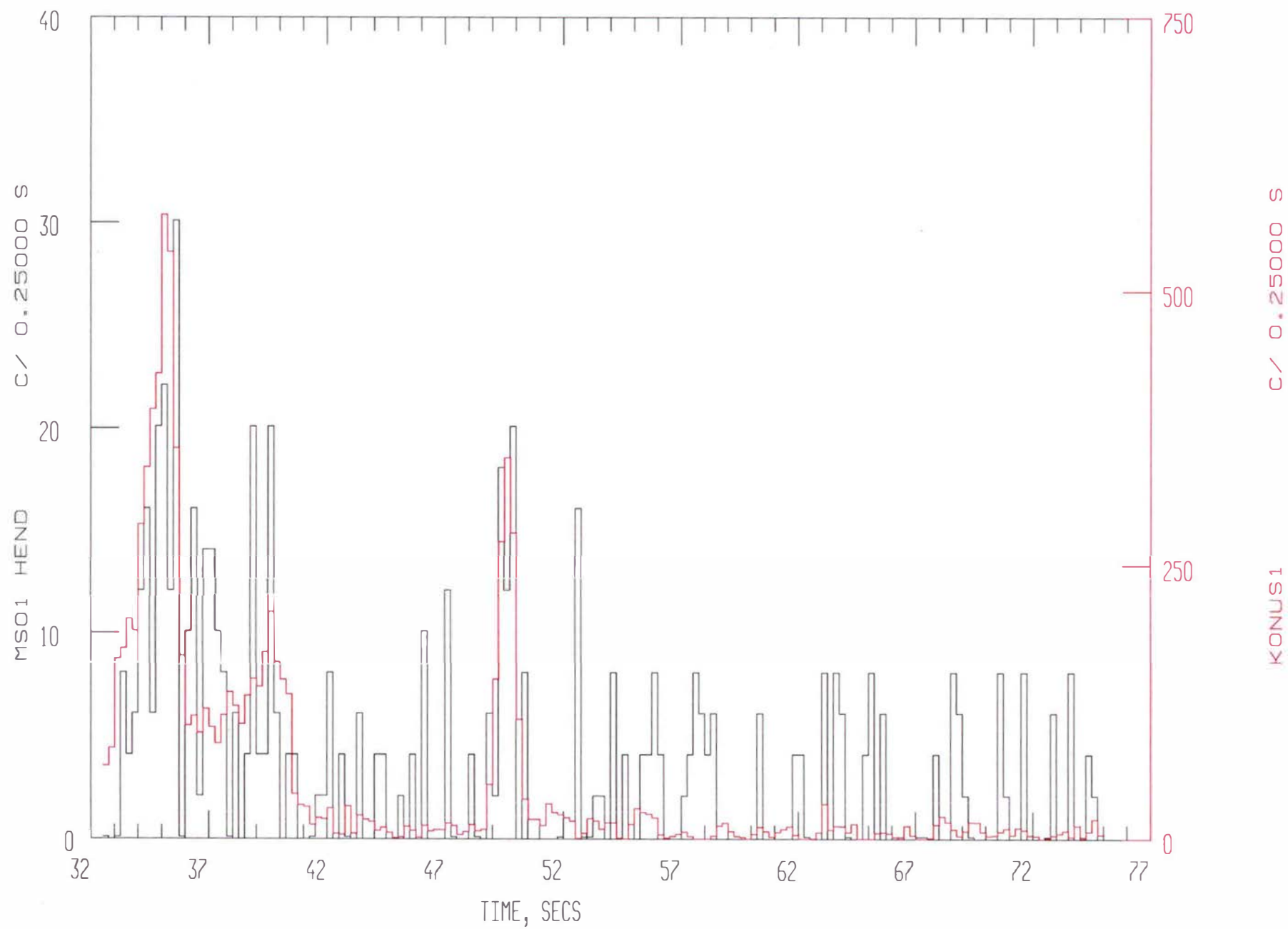
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

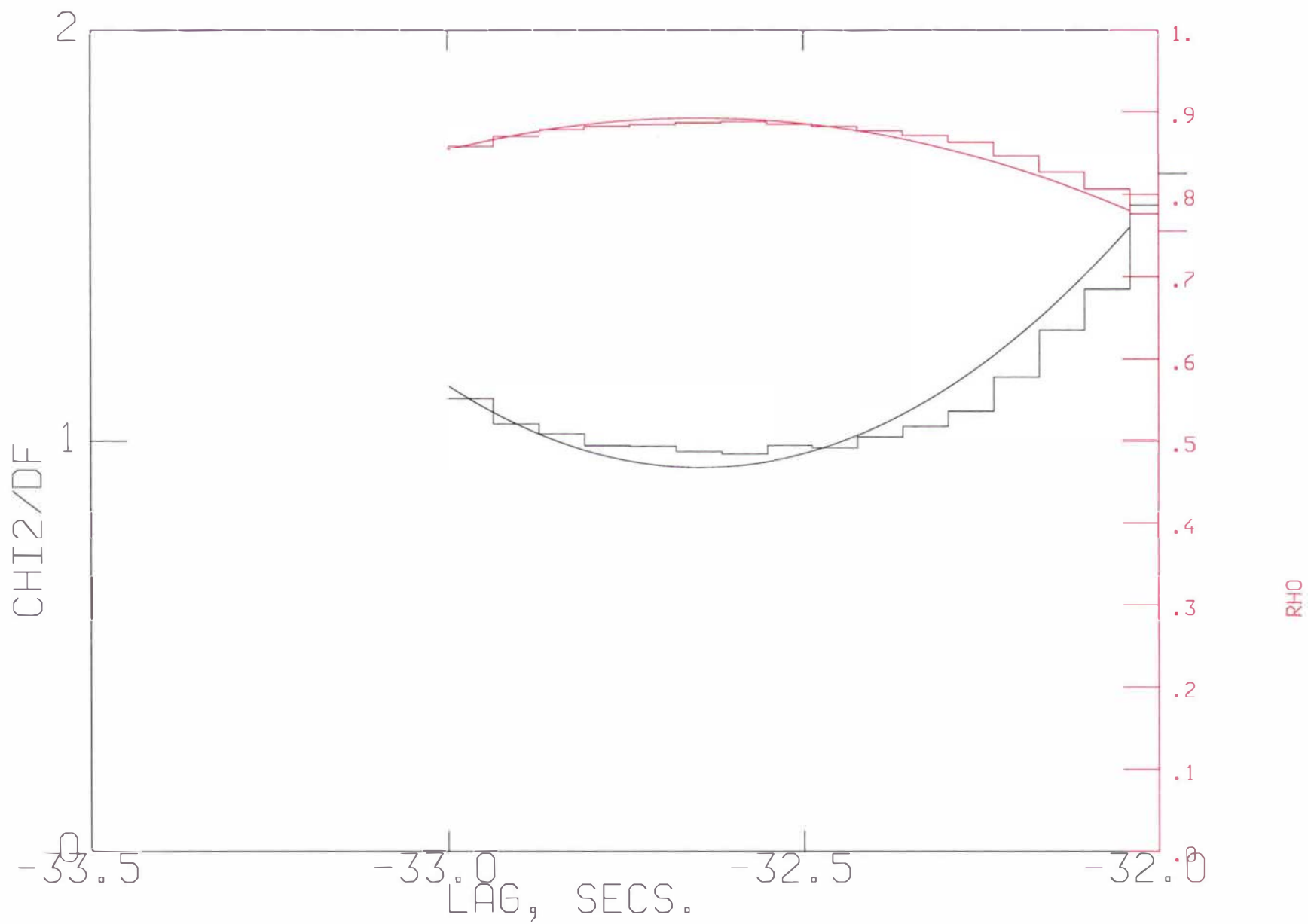
GRB110921 ~78765 S

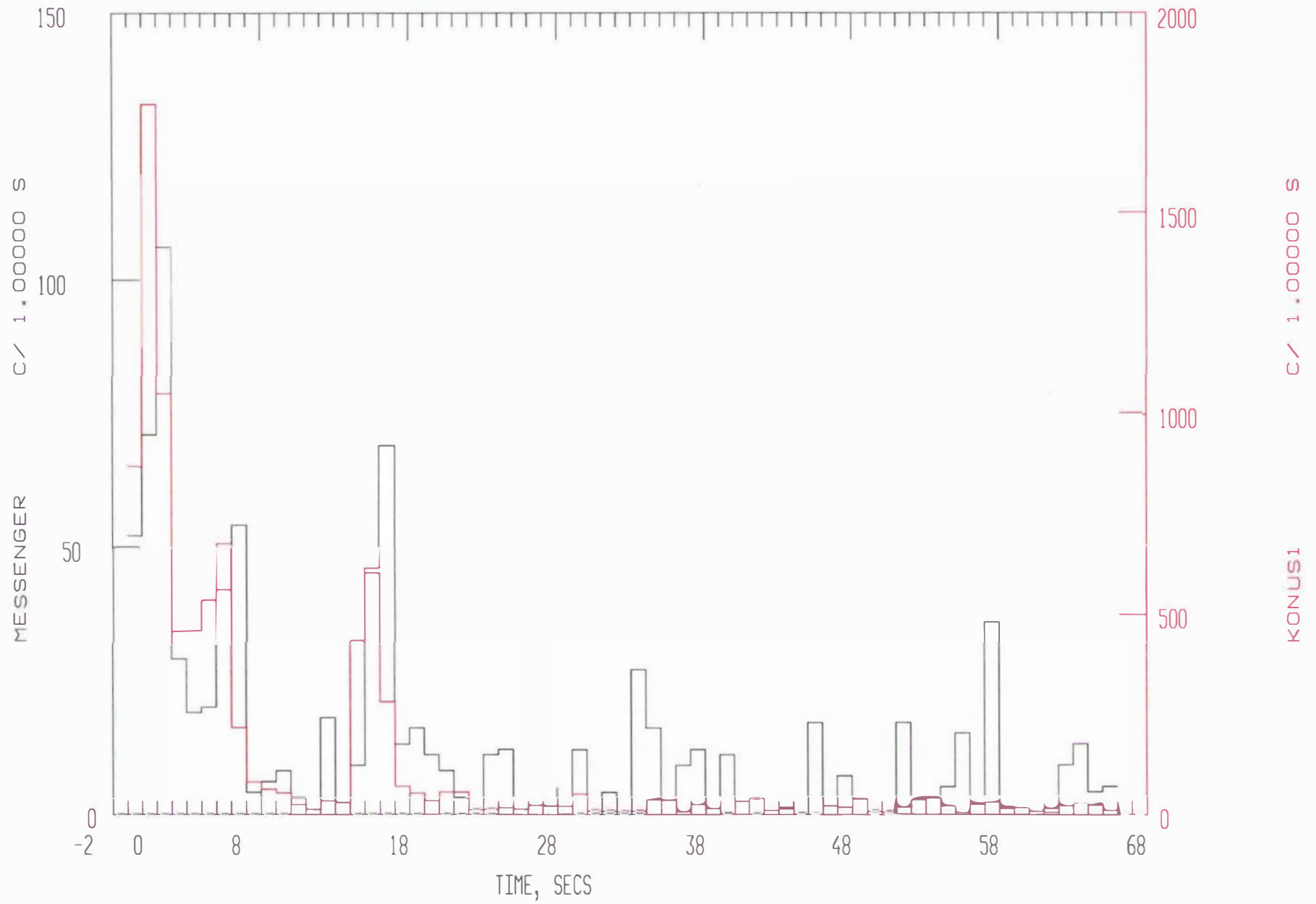
22/07/2016











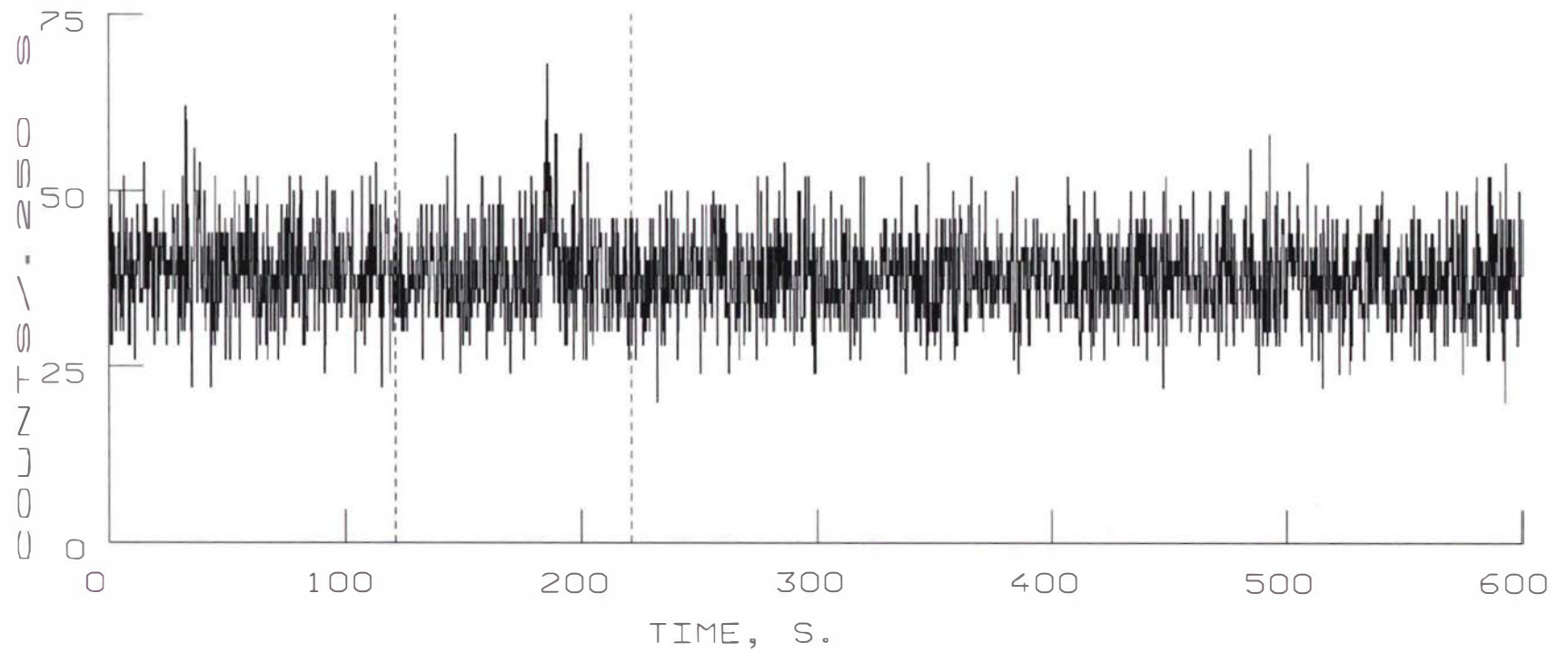
MS01 HEND

22/07/2016

21/09/2011 79099.961 s

50-3000 keV

N= 10 M=60
>4.0 SIGMA FLUCTUATIONS



KONUS1

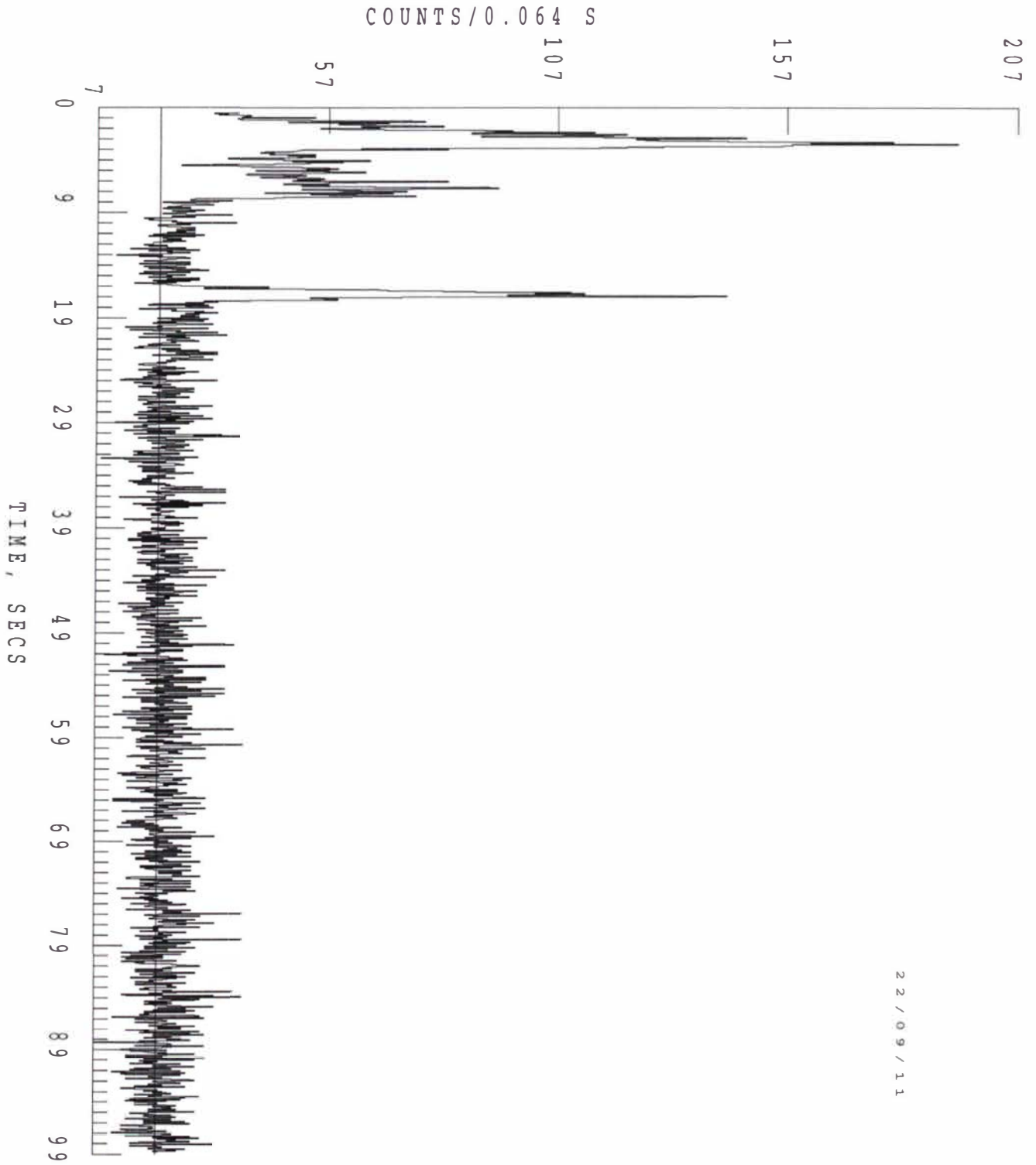
21/09/11

78769.788

21:52:49



50 - 200 keV



KONUS HRES 20110921 78769

TRIGGER TIME: 21/09/11 DOY 264 Julian 2455827.41168 UT = 21.880 21:52:49 (78769.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

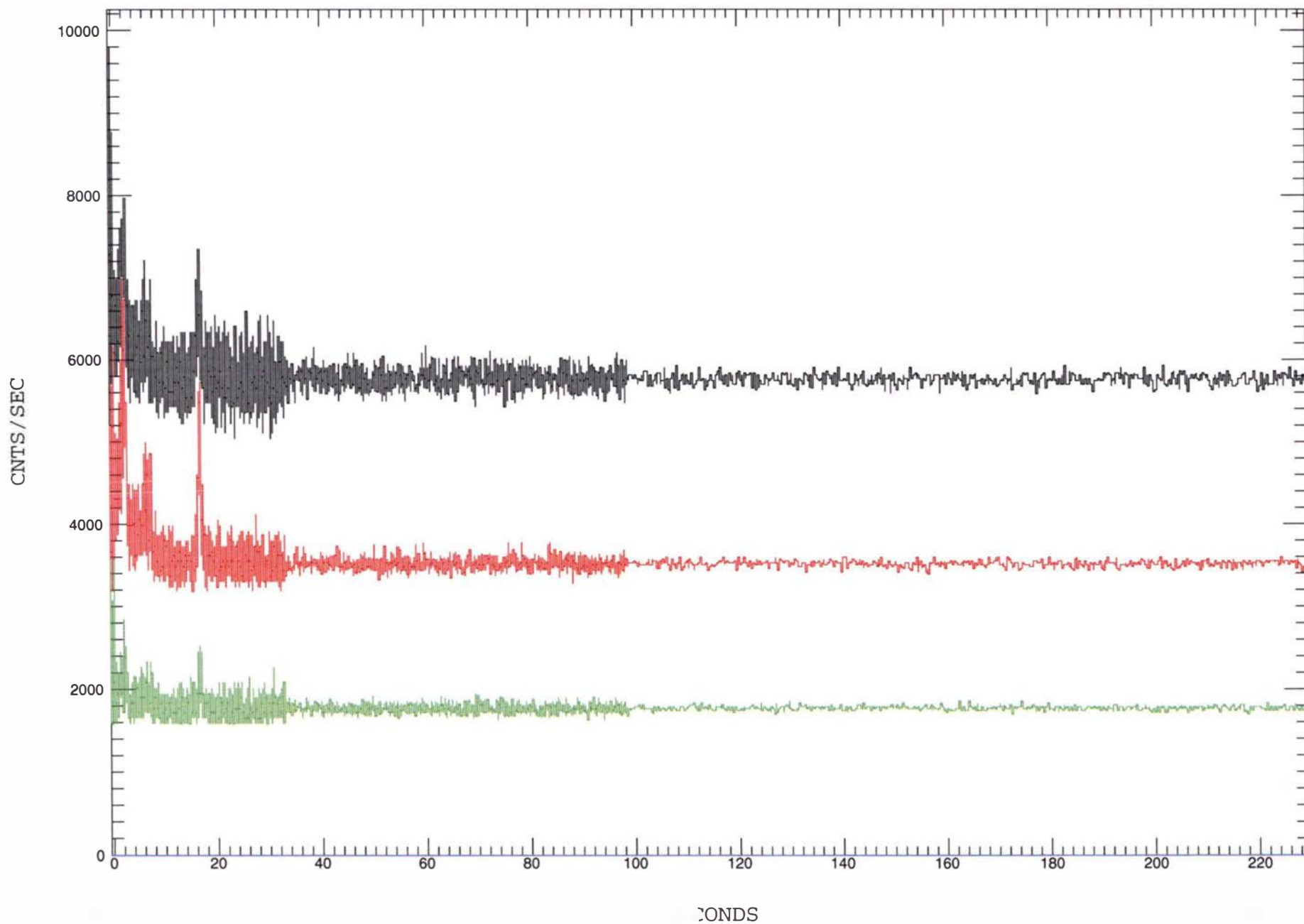
Chan 4 : [> 10 MeV]

Channel 1 + 4800

Channel 2 + 3200

Channel 3 + 1600

Channel 4 + 0



MS01

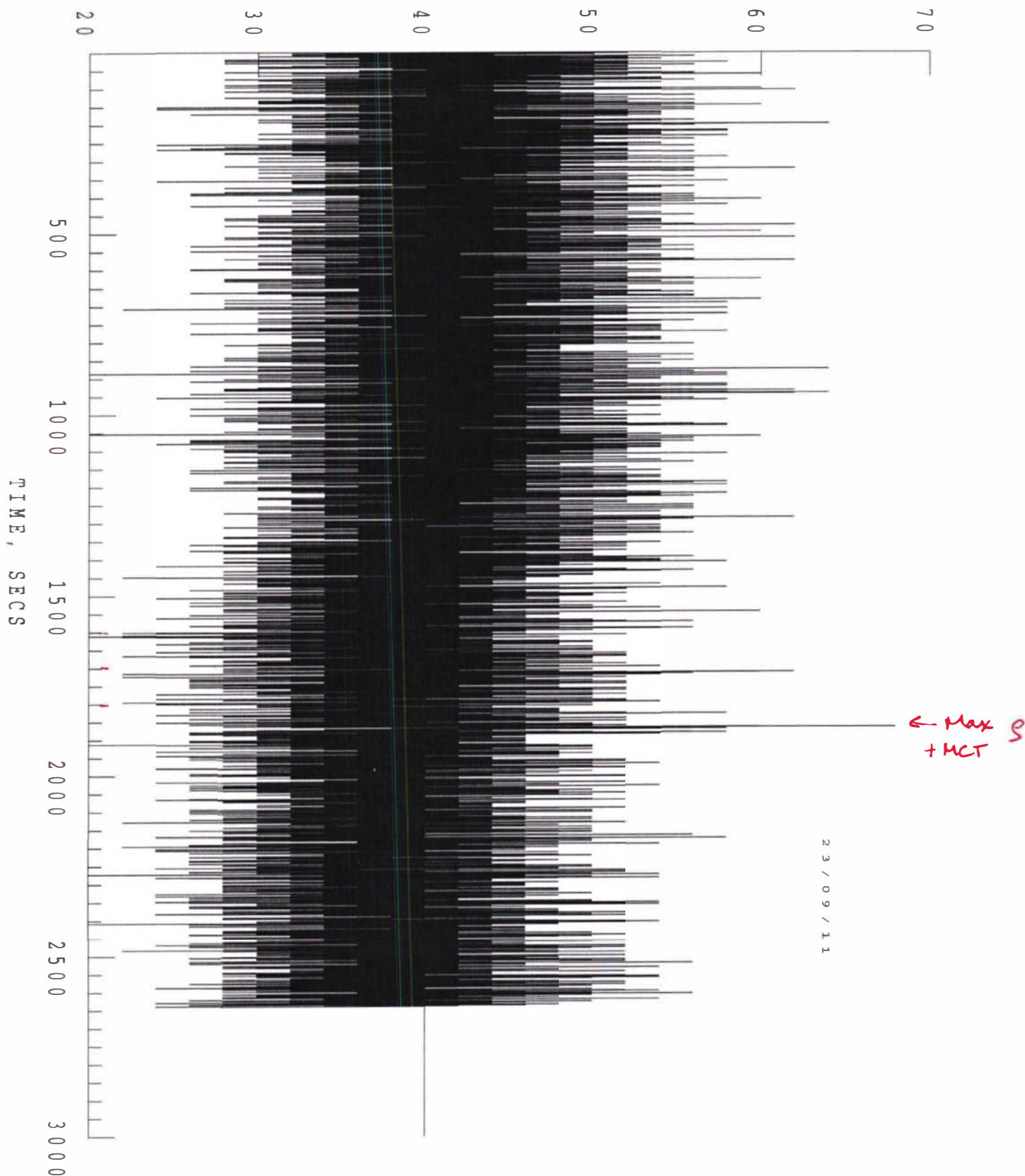
21/09/11

77419.984

①

50 - 3000 keV

COUNTS/0.250 S



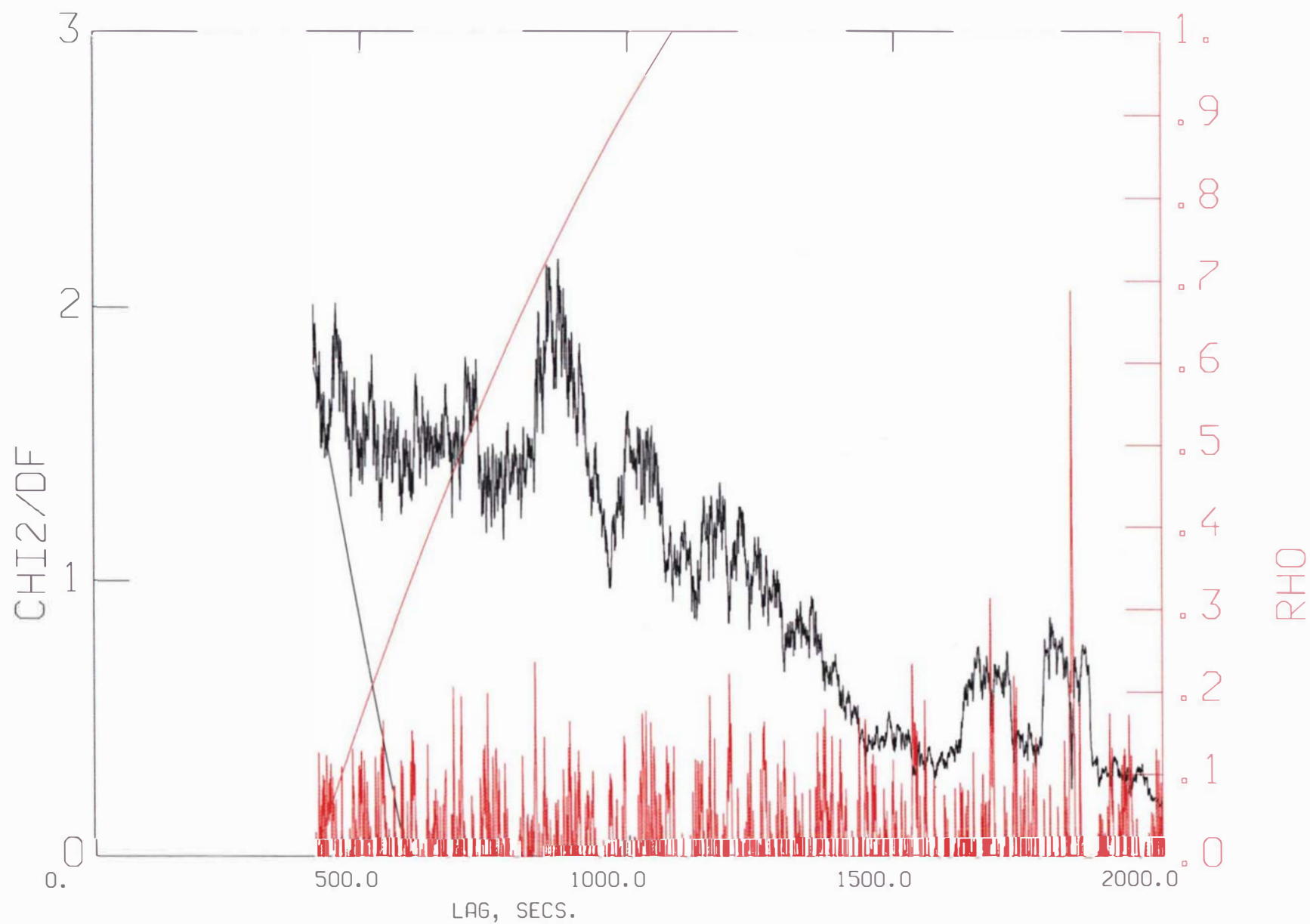
A

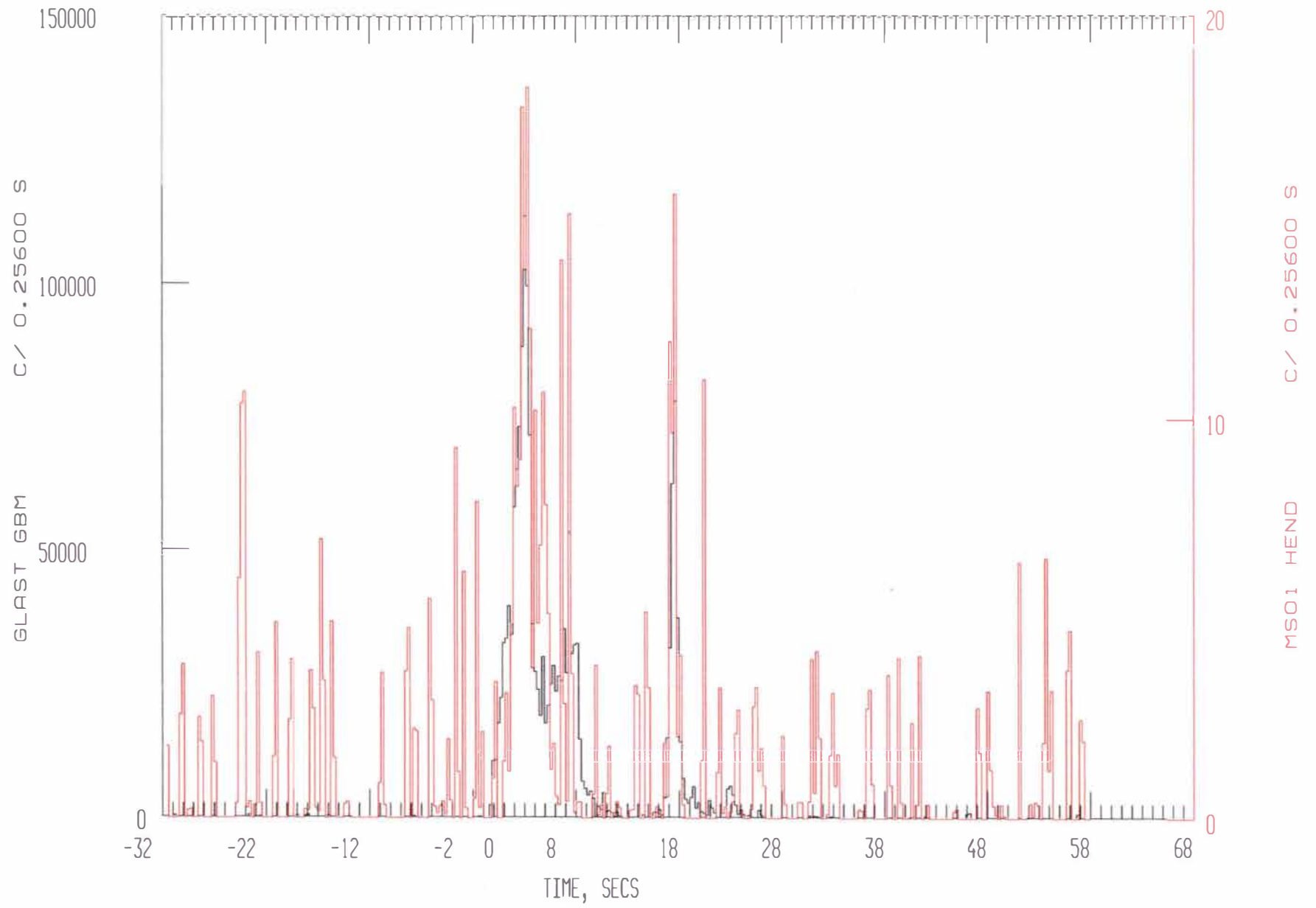
GLAST GBM -MS01 HEND CORRELATION

21/09/11

78765.092

2/12/11





D

From williams@gammaburst.ssl.berkeley.edu Mon Sep 26 23:12:27 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Mon, 26 Sep 2011 23:11:54 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_INTEGRAL_20110921_78763
X-Ucb-Scan-Signature: b644ad4f1c7807d324d3dcb85a2d2e2bc75fc41
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 26-Sep-2011 23:13:34.00
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

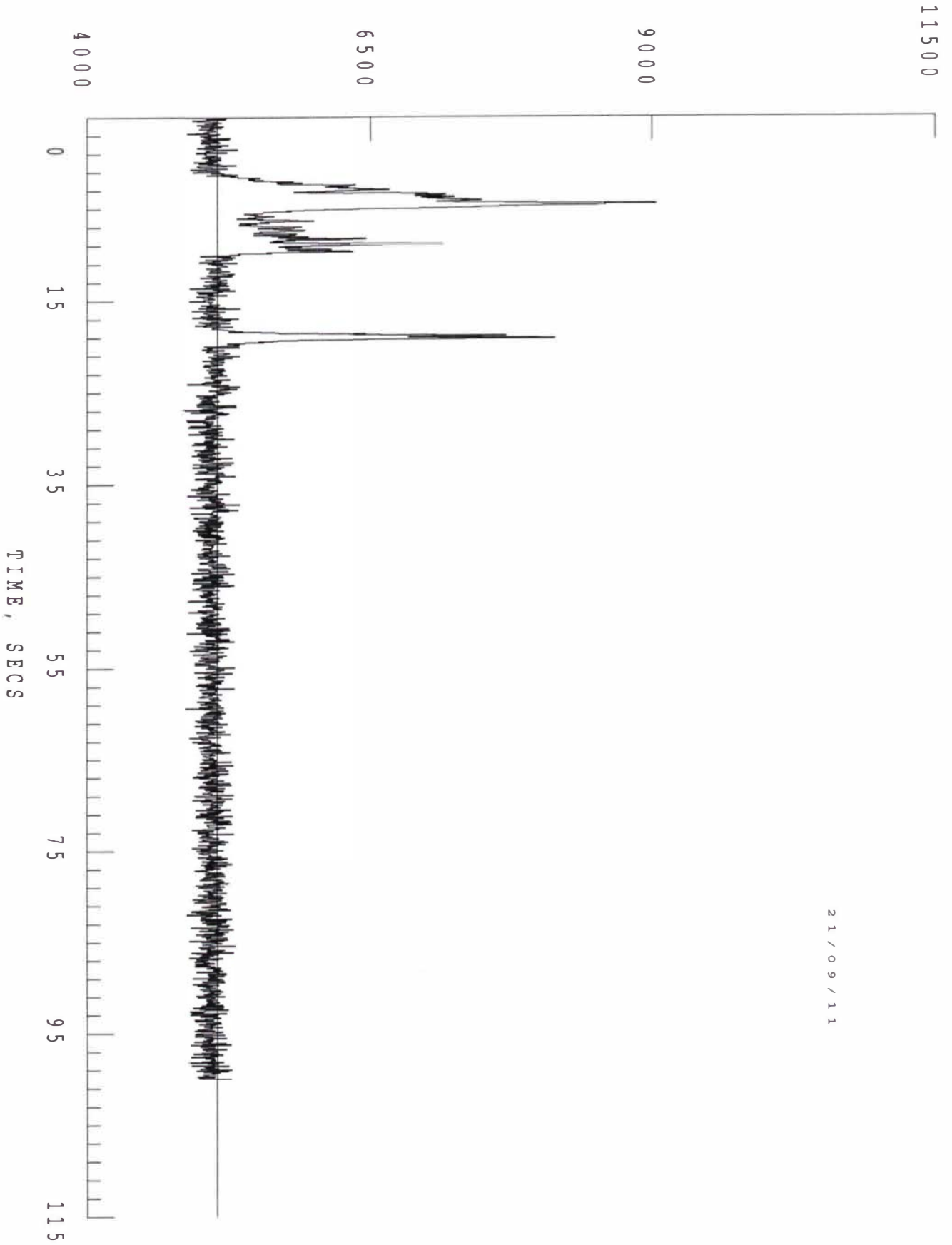
INTEGRAL

21/09/11

78763.710

100-10000 keV

COUNTS/0.050 S

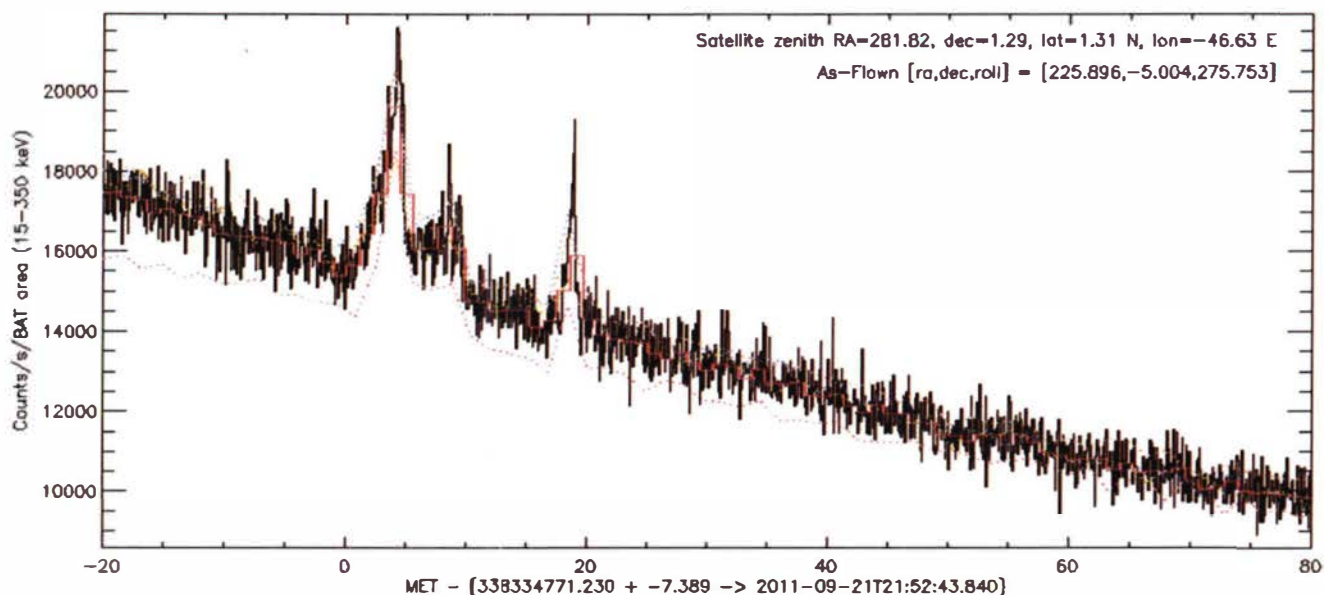




Subject: [lbn] Fwd: BAT lightcurve for trigger at 110921_2152
 From: David Palmer <palmer@lanl.gov>
 Date: Thu, 22 Sep 2011 09:13:13 -0600
 To: IPN <ipn@ssl.berkeley.edu>

The available data cut off about T+10 when the first lightcurve went out, so here's the rest of it.

110921_2152.png



Begin forwarded message:

From: palmer+automatic_lightcurve@lanl.gov
 Date: 2011-09-21 10:23:28 PM MDT
 To: ghm-ba@mpg.de, ipn@ssl.berkeley.edu, dmpalmer@gmail.com, ekipp@lanl.gov, bat_team@bigbang.gsfc.nasa.gov,
palmer+automatic_lightcurve@lanl.gov
 Subject: [lbn] BAT lightcurve for trigger at 110921_2152

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

```
% /usr/local/bin/swinfo -o 338334771.229
Time(MET + UTC -> UT):      338334771.229 + -7.389 -> 2011-09-21T21:52:43.840
Swift Zenith(RA,dec):      281.82, 1.29
Swift Location(lon,lat,alt): -46.63 E, 1.31 N, 590 km
Obs Sequence Number:      00074310017
Obs Target Name:          saa-cold-264-08
Obs Date and Times:       2011-09-21  21:38:54 - 21:52:52
Obs Pointing(ra,dec,roll): 225.896, -5.004, 275.75

% /usr/local/bin/swinfo -o 338334772.479 -s 10.133 -48.083
Time(MET + UTC -> UT):      338334772.479 + -7.389 -> 2011-09-21T21:52:45.090
Swift Zenith(RA,dec):      281.94, 1.34
Swift Location(lon,lat,alt): -46.53 E, 1.35 N, 590 km
Obs Sequence Number:      00074310017
Obs Target Name:          saa-cold-264-08
Obs Date and Times:       2011-09-21  21:38:54 - 21:52:52
Obs Pointing(ra,dec,roll): 225.896, -5.004, 275.75
10.133_-48.083_imageloc (boresight_dist, angle): (118, 148)
10.133_-48.083_exposure (cm^2 cos adjusted): 0
10.133_-48.083_altitude: 24 (up)

% /usr/local/bin/swinfo -o 338334772.479 -s 3.517 -51.367
Time(MET + UTC -> UT):      338334772.479 + -7.389 -> 2011-09-21T21:52:45.090
Swift Zenith(RA,dec):      281.94, 1.34
```

```
Swift Location(lon,lat,alt): -46.53 E, 1.35 N, 590 km
Obs Sequence Number: 00074310017
Obs Target Name: saa-cold-264-08
Obs Date and Times: 2011-09-21 21:38:54 - 21:52:52
Obs Pointing(ra,dec,roll): 225.896, -5.004, 275.75
3.517_-51.367_imageloc (boresight_dist, angle): (113, 147)
3.517_-51.367_exposure (cm^2 cos adjusted): 0
3.517_-51.367_altitude: 28 (up)

% /usr/local/bin/swinfo -o 338334772.479 -s 7.030_-35.290
Time(MET + UTCF -> UT): 338334772.479 + -7.389 -> 2011-09-21T21:52:45.090
Swift Zenith(RA,dec): 281.94, 1.34
Swift Location(lon,lat,alt): -46.53 E, 1.35 N, 590 km
Obs Sequence Number: 00074310017
Obs Target Name: saa-cold-264-08
Obs Date and Times: 2011-09-21 21:38:54 - 21:52:52
Obs Pointing(ra,dec,roll): 225.896, -5.004, 275.75
7.030_-35.290_imageloc (boresight_dist, angle): (126, 135)
7.030_-35.290_exposure (cm^2 cos adjusted): 0
7.030_-35.290_altitude: 27 (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>

--
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>

110921_2152.png	Content-Type: image/png
	Content-Encoding: base64

Part 1.3

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

110921_2152_bat64ms_ipn

110921_2152_bat64ms_ipn	Content-Type: application/octet-stream
	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: [lpn] BAT lightcurve for trigger at 110921_2152

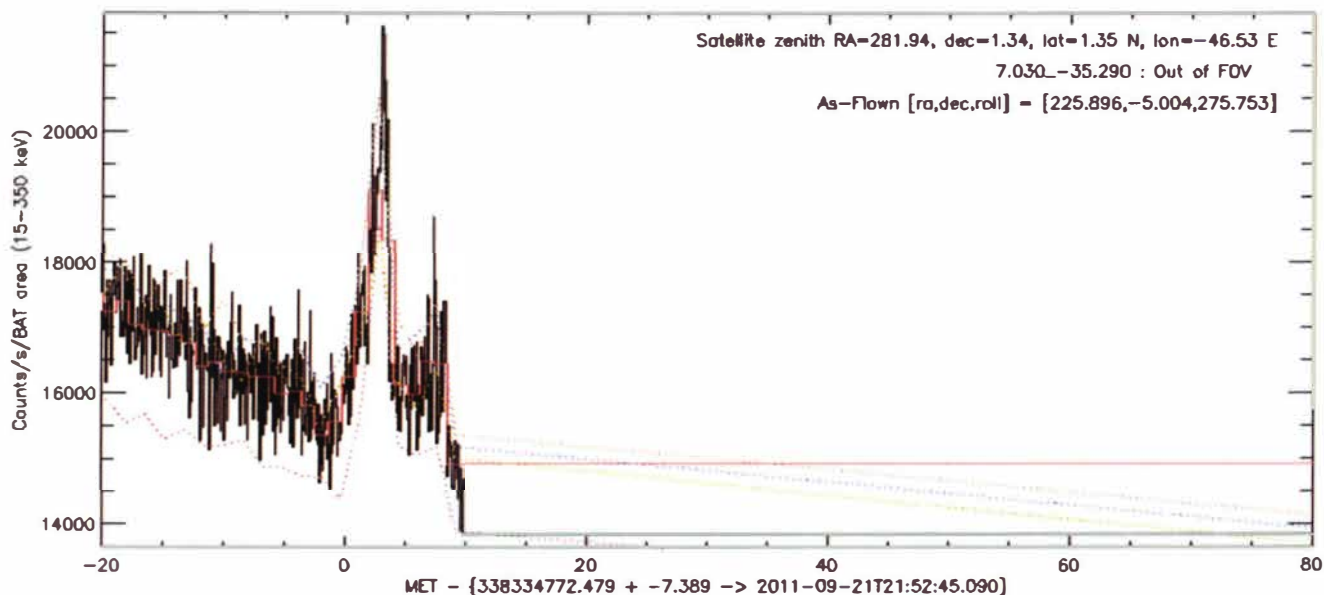
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 21 Sep 2011 22:23:28 -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/110921_2152.png



```
% /usr/local/bin/swinfo -o 338334771.229
Time(MET + UTCF -> UT): 338334771.229 + -7.389 -> 2011-09-21T21:52:43.840
Swift Zenith(RA,dec): 281.82, 1.29
Swift Location(lon,lat,alt): -46.63 E, 1.31 N, 590 km
Obs Sequence Number: 00074310017
Obs Target Name: saa-cold-264-08
Obs Date and Times: 2011-09-21 21:38:54 - 21:52:52
Obs Pointing(ra,dec,roll): 225.896, -5.004, 275.75
```

```
% /usr/local/bin/swinfo -o 338334772.479 -s 10.133 -48.083
Time(MET + UTCF -> UT): 338334772.479 + -7.389 -> 2011-09-21T21:52:45.090
Swift Zenith(RA,dec): 281.94, 1.34
Swift Location(lon,lat,alt): -46.53 E, 1.35 N, 590 km
Obs Sequence Number: 00074310017
Obs Target Name: saa-cold-264-08
Obs Date and Times: 2011-09-21 21:38:54 - 21:52:52
Obs Pointing(ra,dec,roll): 225.896, -5.004, 275.75
10.133-48.083_imageloc (boresight_dist, angle): (118, 148)
10.133-48.083_exposure (cm² cos adjusted): 0
10.133-48.083_altitude: 24 (up)
```

```
% /usr/local/bin/swinfo -o 338334772.479 -s 3.517 -51.367
Time(MET + UTCF -> UT): 338334772.479 + -7.389 -> 2011-09-21T21:52:45.090
Swift Zenith(RA,dec): 281.94, 1.34
Swift Location(lon,lat,alt): -46.53 E, 1.35 N, 590 km
Obs Sequence Number: 00074310017
Obs Target Name: saa-cold-264-08
Obs Date and Times: 2011-09-21 21:38:54 - 21:52:52
Obs Pointing(ra,dec,roll): 225.896, -5.004, 275.75
3.517-51.367_imageloc (boresight_dist, angle): (113, 147)
3.517-51.367_exposure (cm² cos adjusted): 0
3.517-51.367_altitude: 28 (up)
```

```
% /usr/local/bin/swinfo -o 338334772.479 -s 7.030 -35.290
Time(MET + UTCF -> UT): 338334772.479 + -7.389 -> 2011-09-21T21:52:45.090
Swift Zenith(RA,dec): 281.94, 1.34
Swift Location(lon,lat,alt): -46.53 E, 1.35 N, 590 km
Obs Sequence Number: 00074310017
Obs Target Name: saa-cold-264-08
```

[Ipn] BAT lightcurve for trigger at 110921_2152

Obs Date and Times: 2011-09-21 21:38:54 - 21:52:52
Obs Pointing(ra,dec,roll): 225.896, -5.004, 275.75
7.030_-35.290_imageloc (boresight_dist, angle): (126, 135)
7.030_-35.290_exposure (cm² cos adjusted): 0
7.030_-35.290_altitude: 27 (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/110921_2152_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

/tmp/110921_2152.png

/tmp/110921_2152.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

DE

22/09/11

MESSENGER

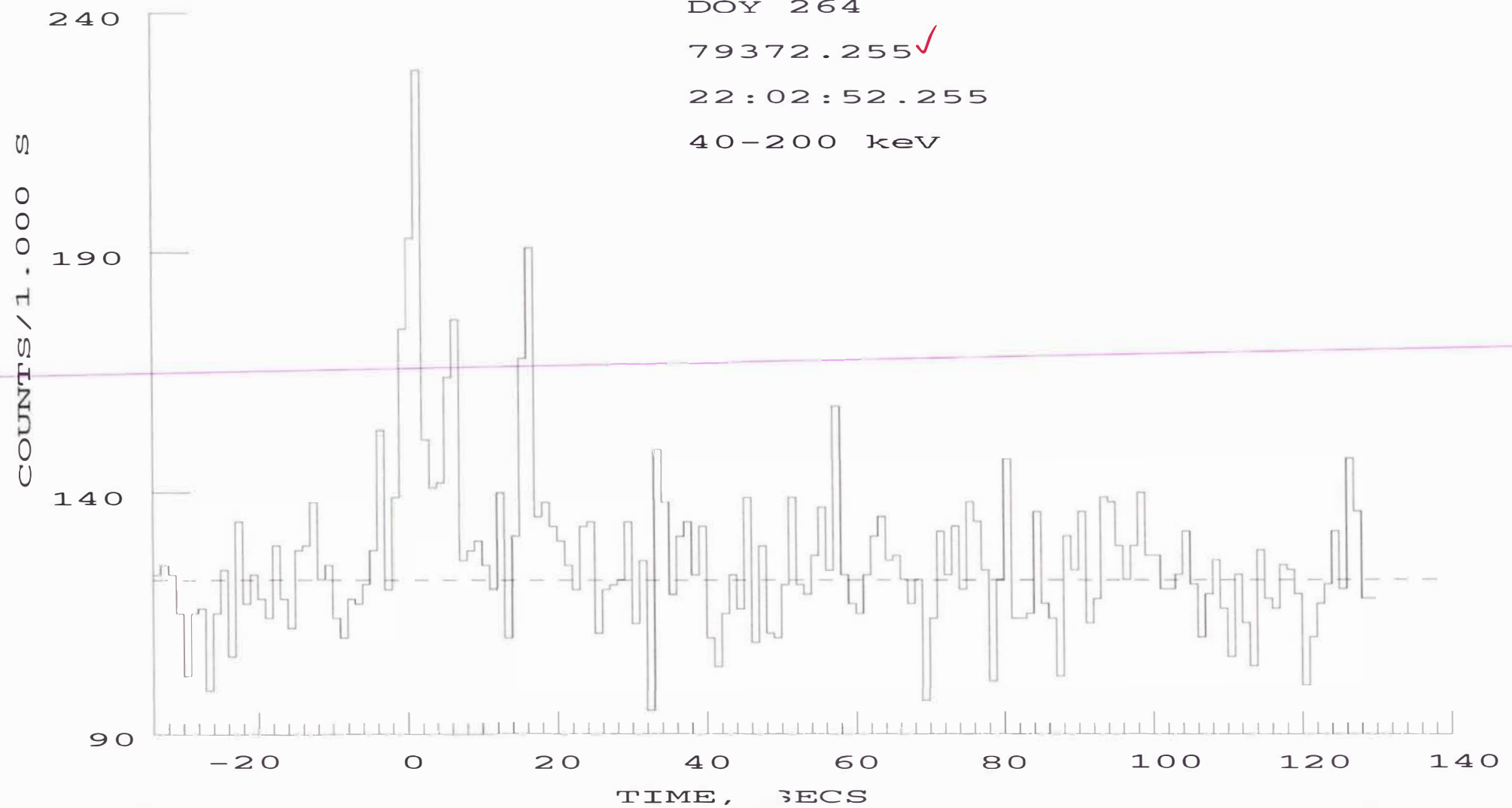
21/09/11

DOY 264

79372.255 ✓

22:02:52.255

40-200 keV



GLAST

21/09/11

78765.092

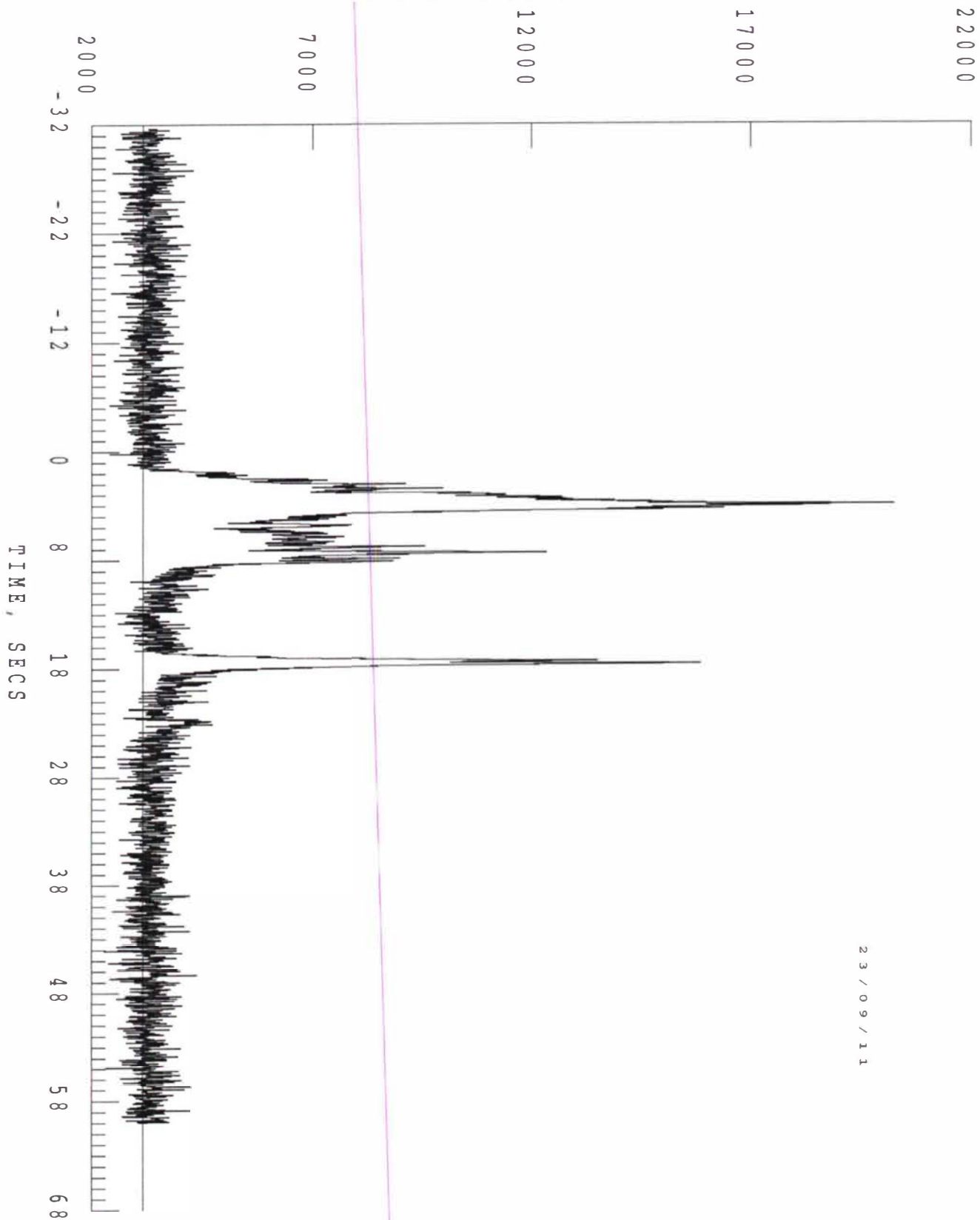
21:52:45

ED

26- 293 keV

17.97 -26.25 1.0

COUNTS/0.032 S



D

From gcncirc@capella2.gsfc.nasa.gov Fri Sep 23 14:32:24 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GCN for GRB 110921B
To: khurley@ssl.berkeley.edu
Date: Fri, 23 Sep 2011 17:34:06 -0400 (EDT)
X-Ucb-Scan-Signature: f7cf7ad7e31fbc837e4dfb4588fc459feaaf4b59
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: 12390
SUBJECT: GCN for GRB 110921B
DATE: 11/09/23 21:34:05 GMT
FROM: Peter Jenke at MSFC <pjenke@aol.com>

Peter Jenke (MSFC)/ Sylvain Guiriec (UAH)
report on behalf of the Fermi GBM Team:

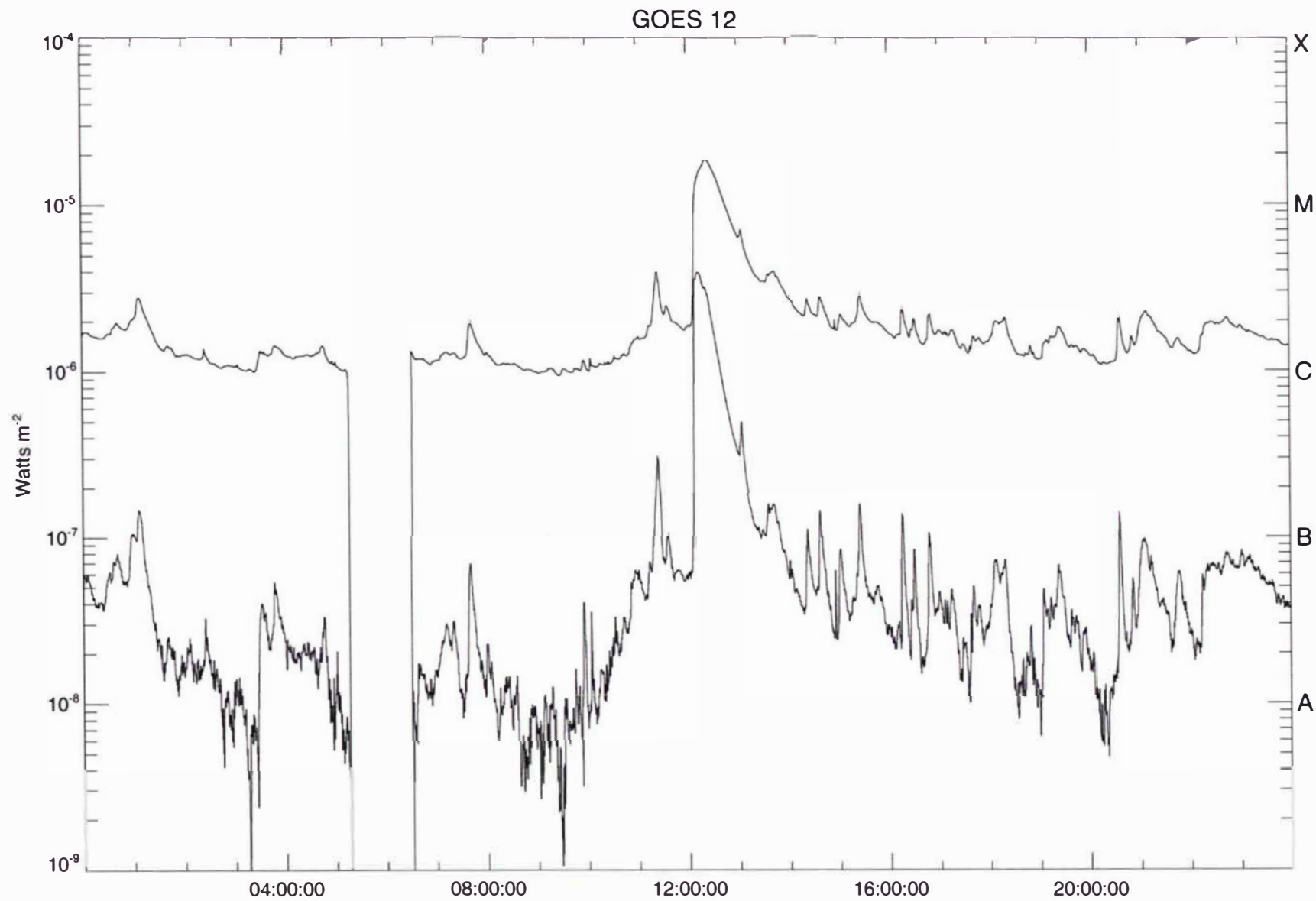
"At 21:52:45.09 UT on 21 09 2011, the Fermi Gamma-Ray Burst Monitor triggered and located GRB 110921B (trigger 338334767 / 110921.912).

The on-ground calculated location, using the GBM trigger data, is RA = 17.95, DEC = -27.74 (J2000 degrees, equivalent to 01 h 11.8 m, -27 d 44.4 m'), with an uncertainty of 1.0 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 Fermi LAT boresight is 36.00 degrees.

The GBM light curve shows two main peaks with the first being double peaked. Moreover, this burst was bright enough to result in a Fermi spacecraft autonomous rapid repoint (ARR) maneuver. The burst had a duration (T90) of about 17 s (50-300 keV). The time-averaged spectrum from T0+0.003 s to T0+23.552 s is adequately fit by a Band function with Epeak = 513.0 +/- 31.3 keV, alpha = -0.95 +/- 0.02, and beta = -2.23 +/- 0.10 (Chi squared 695.1 for 494 d.o.f.).

The event fluence (10-1000 keV) in this time interval is (3.881 +/- 0.054)E-05 erg/cm^2. The peak photon flux measured starting from T0+0.003 s in the 10-1000 keV band is 7.558 +/- 0.068 ph/s/cm^2.

The spectral analysis results presented above are preliminary; final results will be published in the GBM GRB Catalog."



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

Plot created: 11/09/24, 0834

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Sample average = 10

KONUS2

22/09/11

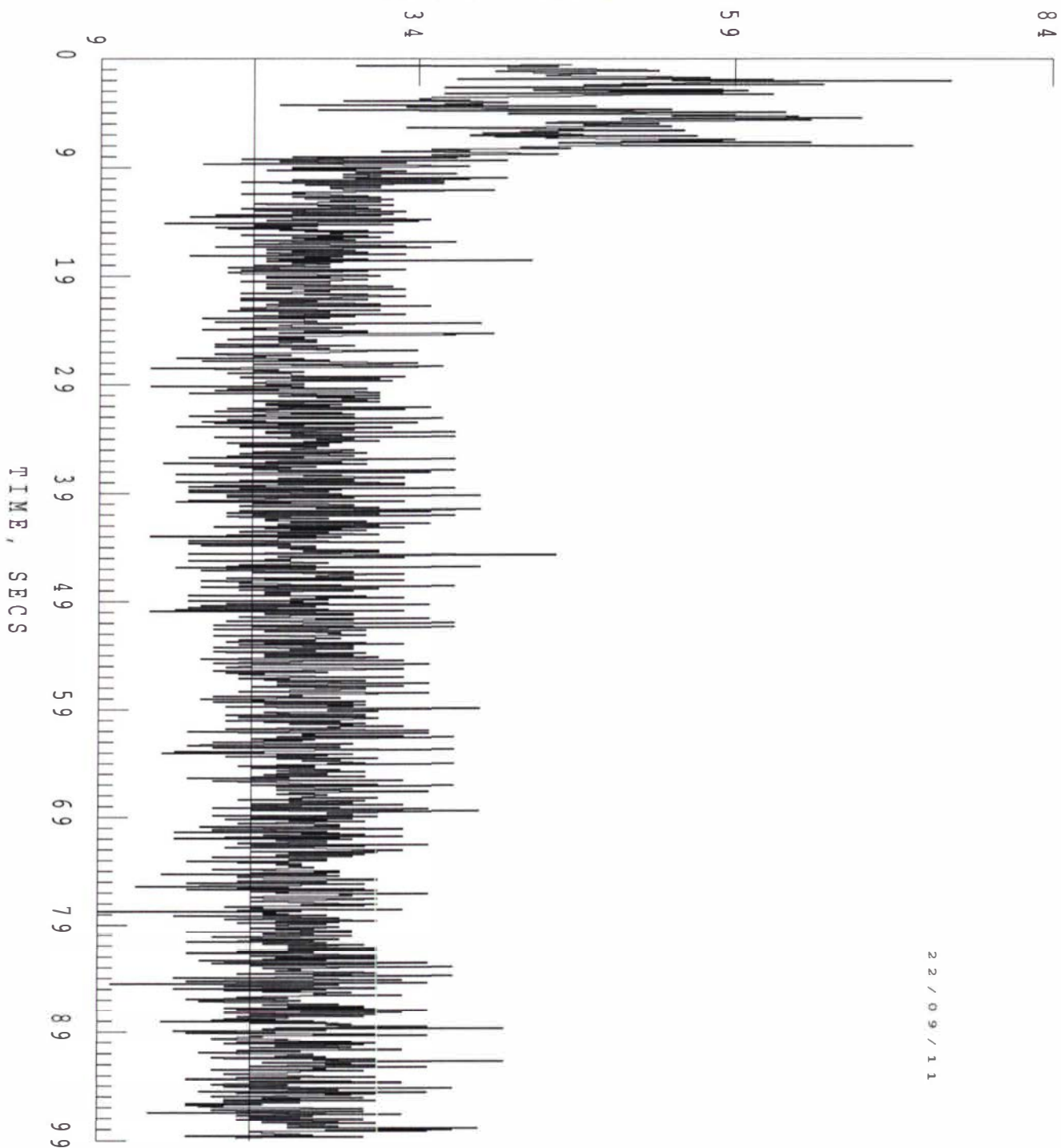
16061.276

A

50 - 200 keV

Solar

COUNTS/0.064 S



A

KONUS HRES 20110922 16061

TRIGGER TIME: 22/09/11 DOY 265 Julian 2455827.68589 UT = 04.461 04:27:41 (16061.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

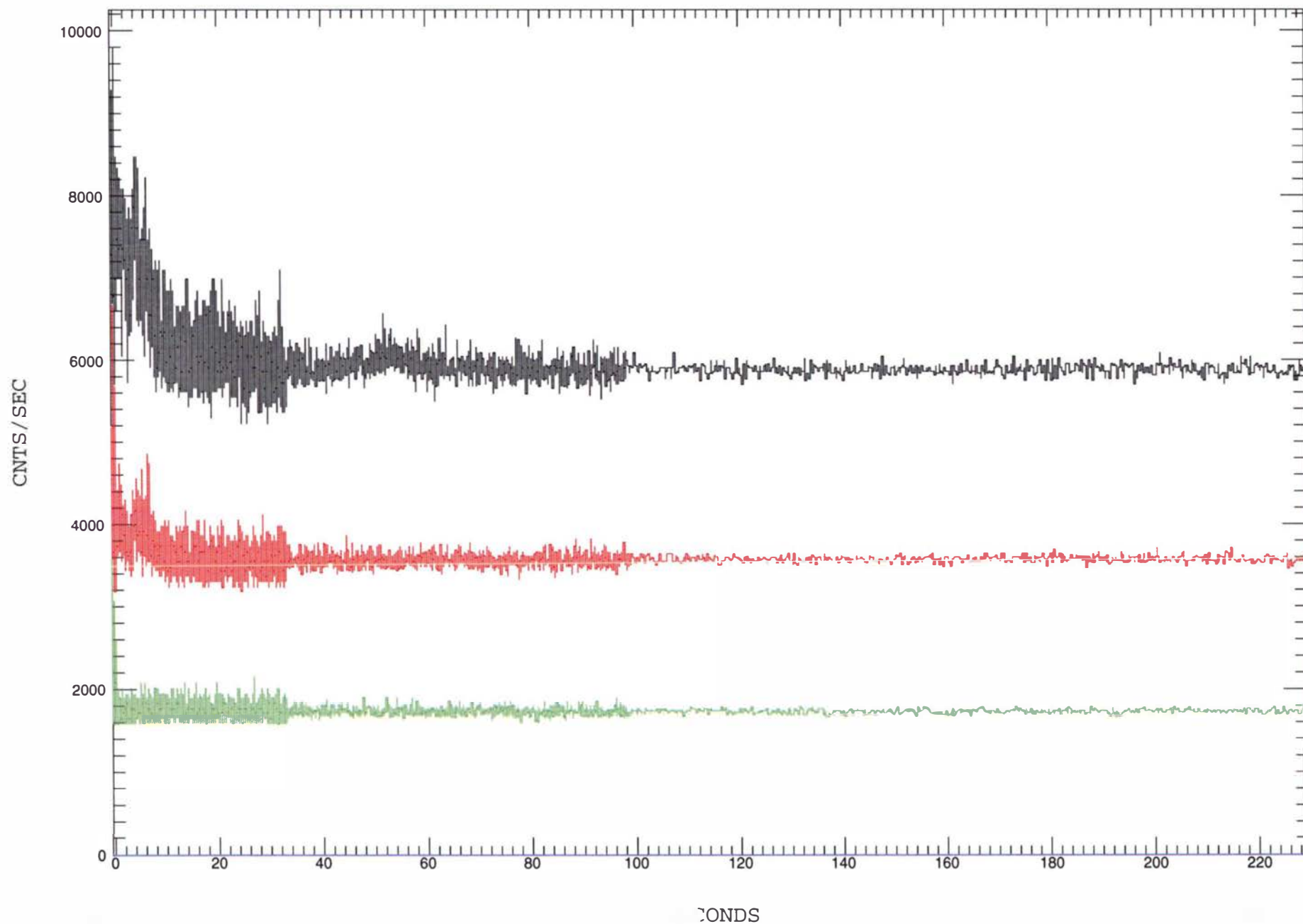
Chan 4 : [> 10 MeV]

Channel 1 + 4800

Channel 2 + 3200

Channel 3 + 1600

Channel 4 + 0



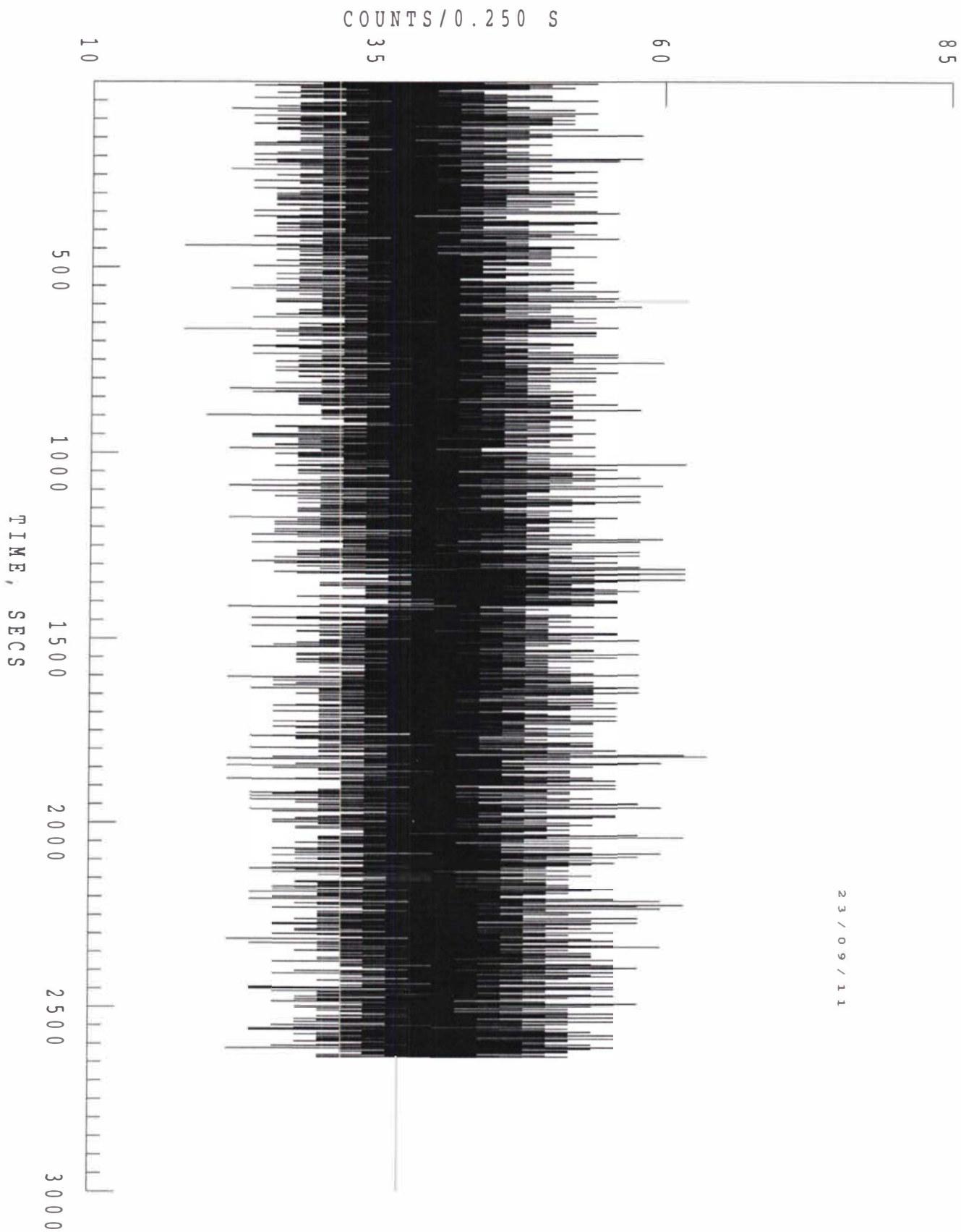
MS01

22/09/11

14719.581

A

50 - 3000 keV

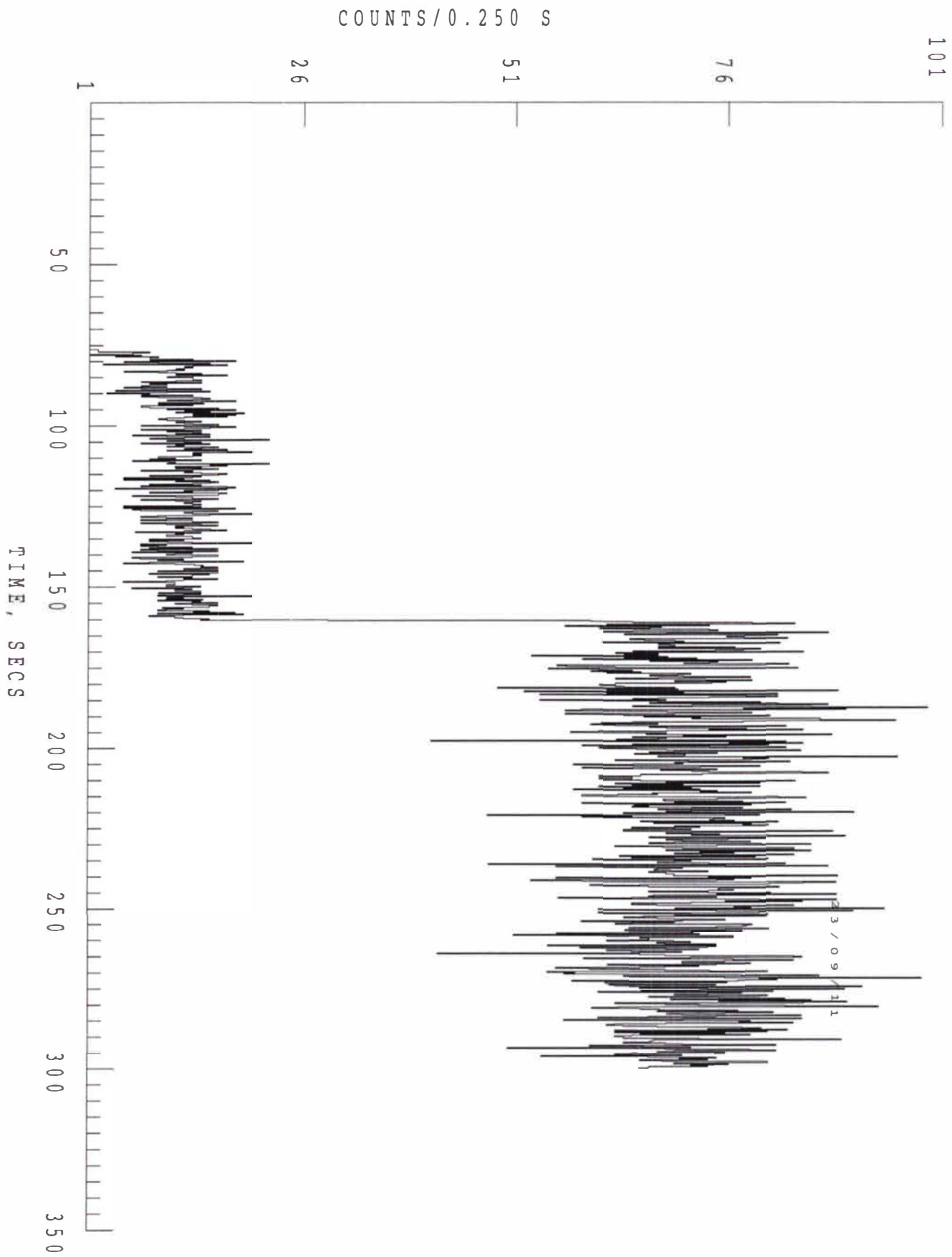


HESSI

22/09/11 15911.000 (KONUS2_20110922_16061)

A

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110922_0427

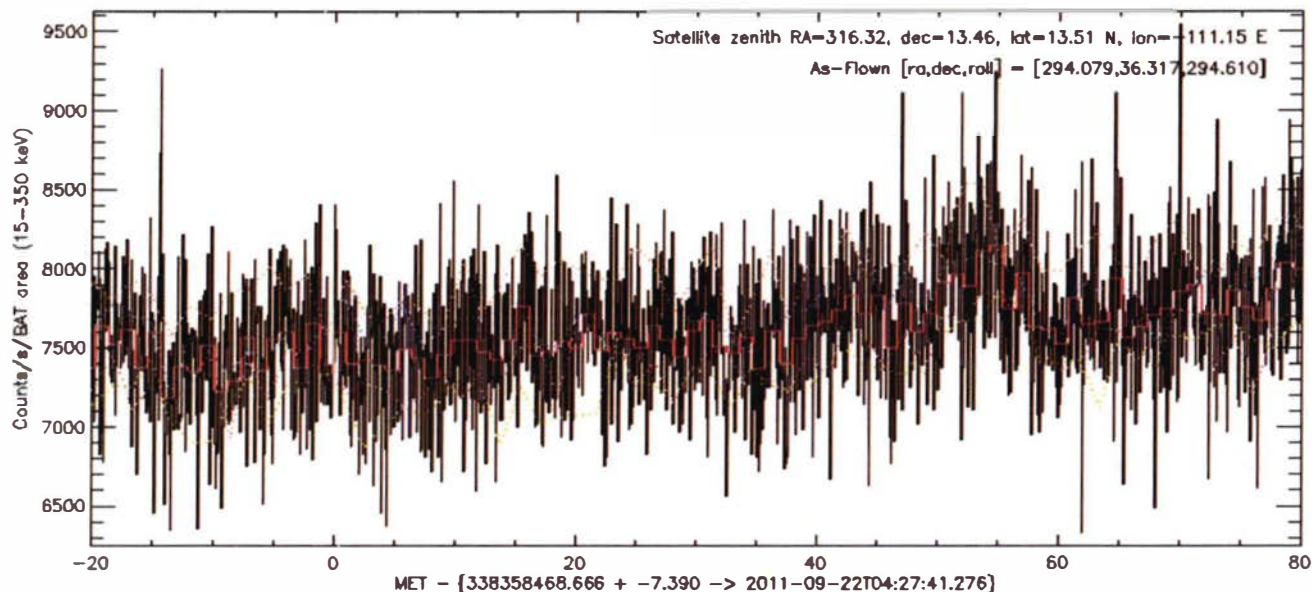
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 22 Sep 2011 08:40:15 -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/110922_0427.png



```
% /usr/local/bin/swinfo -o 338358468.666
Time(MET + UTCF -> UT):      338358468.666 + -7.390 -> 2011-09-22T04:27:41.276
Swift Zenith(RA,dec):        316.32, 13.46
Swift Location(lon,lat,alt):  -111.15 E, 13.51 N, 592 km
Obs Sequence Number:         00503652003
Obs Target Name:              GRB 110921A
Obs Date and Times:          2011-09-22 04:10:53 - 04:31:50
Obs Pointing(ra,dec,roll):    294.079, 36.317, 294.61
```

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

/tmp/110922_0427.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110922_0427_bat64ms_ipn

/tmp/110922_0427_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

KONUS2

22/09/11

38539.918

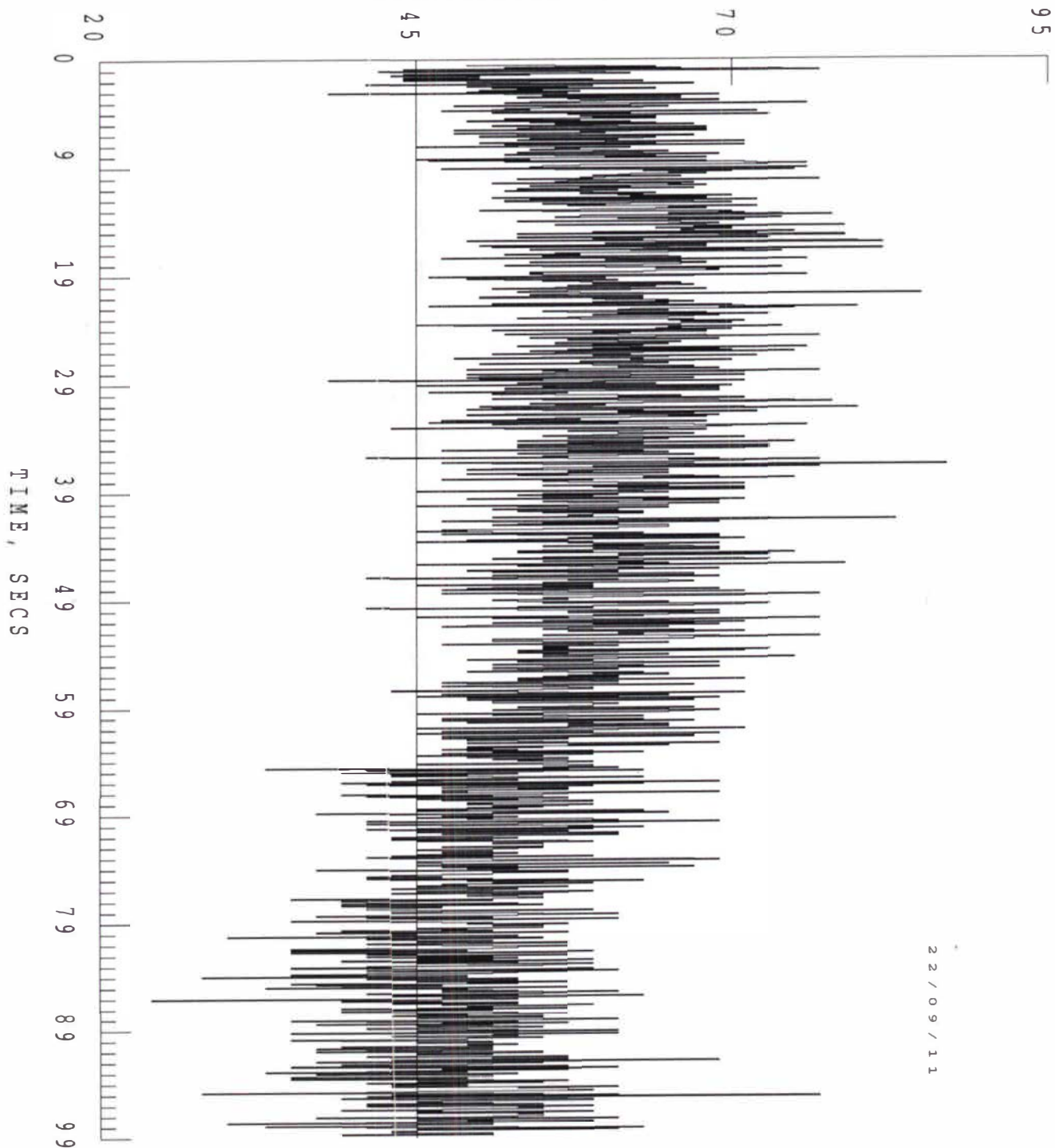
10:42:19

B

50 - 200 keV

Solar

COUNTS/0.064 S



B

KONUS HRES 20110922 38539

TRIGGER TIME: 22/09/11 DOY 265 Julian 2455827.94605 UT = 10.705 10:42:19 (38539.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

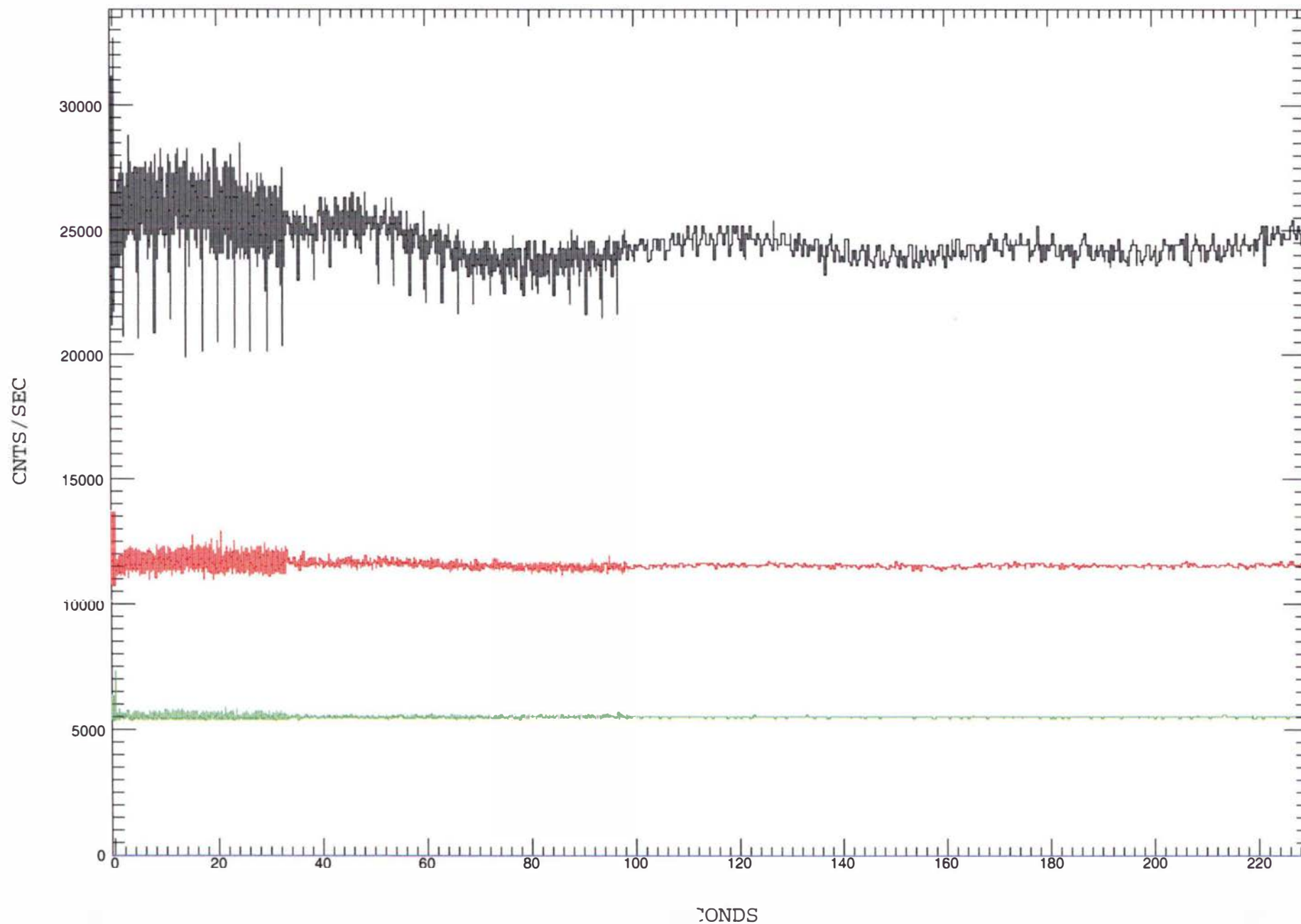
Chan 4 : [> 10 MeV]

Channel 1 + 16200

Channel 2 + 10800

Channel 3 + 5400

Channel 4 + 0



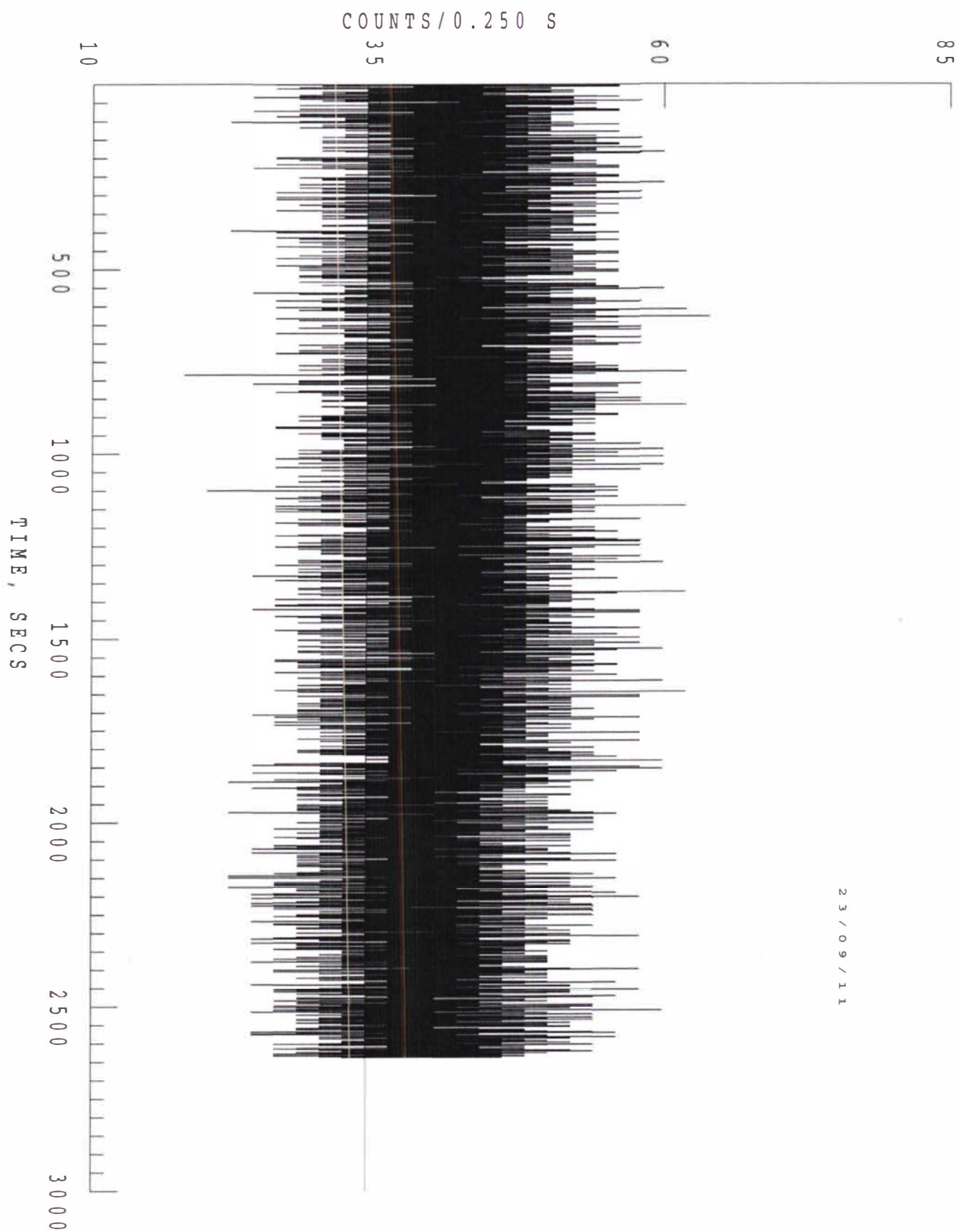
MS01

22/09/11

37219.194

B

50 - 3000 keV



B

From williams@gammaburst.ssl.berkeley.edu Tue Sep 27 23:03:13 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 27 Sep 2011 23:02:40 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20110922_38539
X-Ucb-Scan-Signature: 363935b7f243adf5026b441fable526e30c74388
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-Sep-2011 23:04:19.00
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 110922_1042

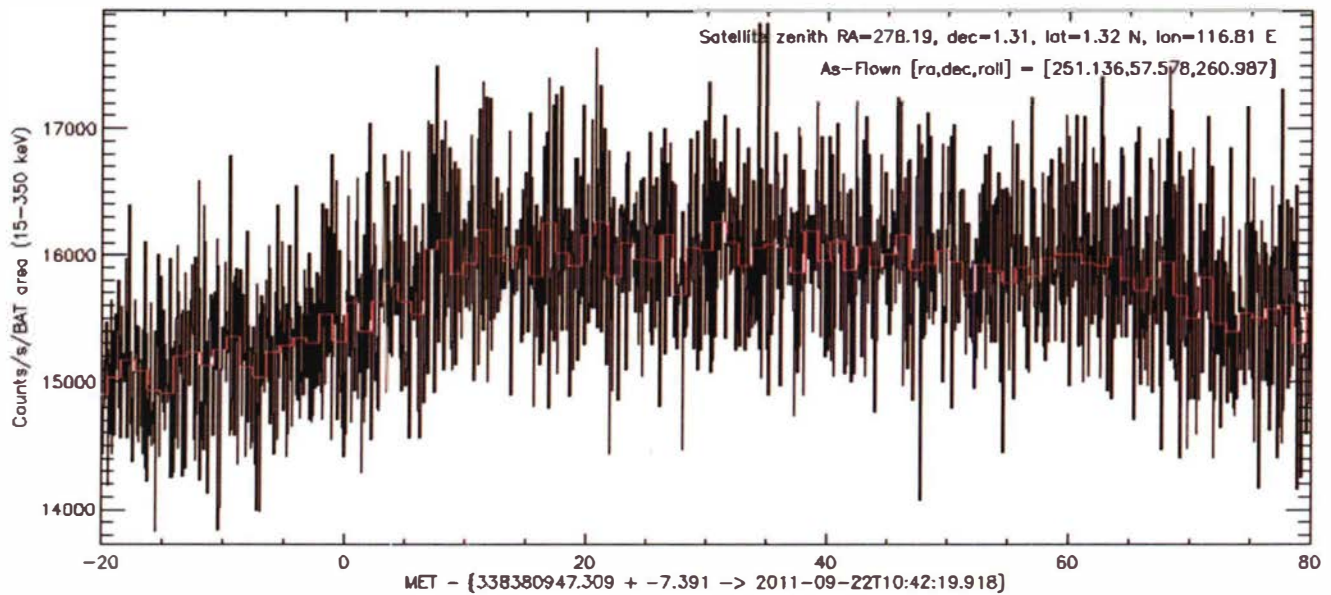
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 22 Sep 2011 20:29:31 -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/110922_1042.png



```
% /usr/local/bin/swinfo -o 338380947.309
Time(MET + UTC -> UT):      338380947.309 + -7.391 -> 2011-09-22T10:42:19.918
Swift Zenith(RA,dec):       278.19, 1.31
Swift Location(lon,lat,alt): 116.81 E, 1.32 N, 589 km
Obs Sequence Number:        00031955180
Obs Target Name:             Swift J164449.3+573451
Obs Date and Times:          2011-09-22 10:34:54 - 10:44:52
Obs Pointing(ra,dec,roll):   251.136, 57.578, 260.99
```

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

/tmp/110922_1042.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110922_1042_bat64ms_ipn

/tmp/110922_1042_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

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

SUZAKU

22/09/11

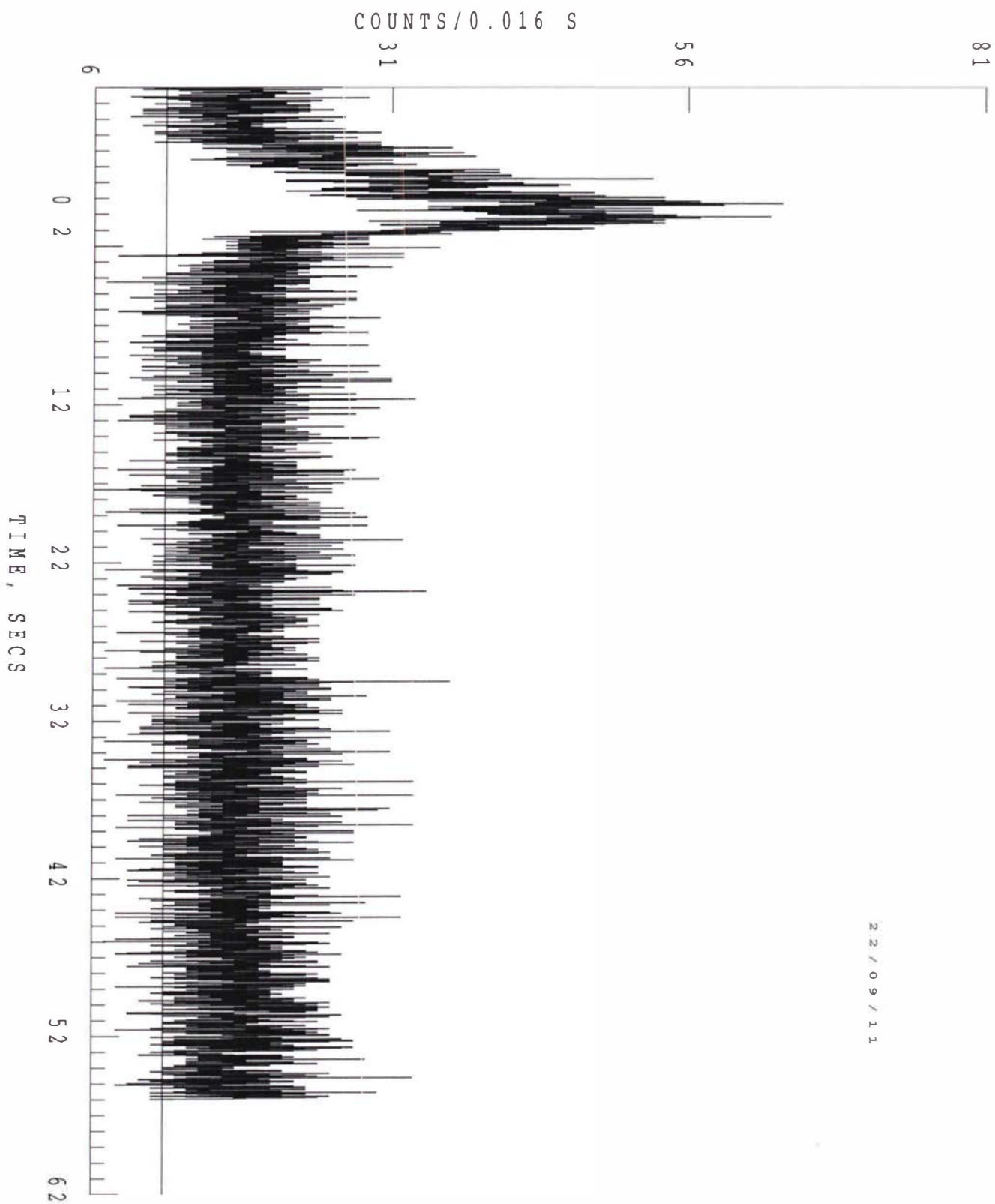
43125.561

11:58:45

C

50 - 240 keV

Solar?



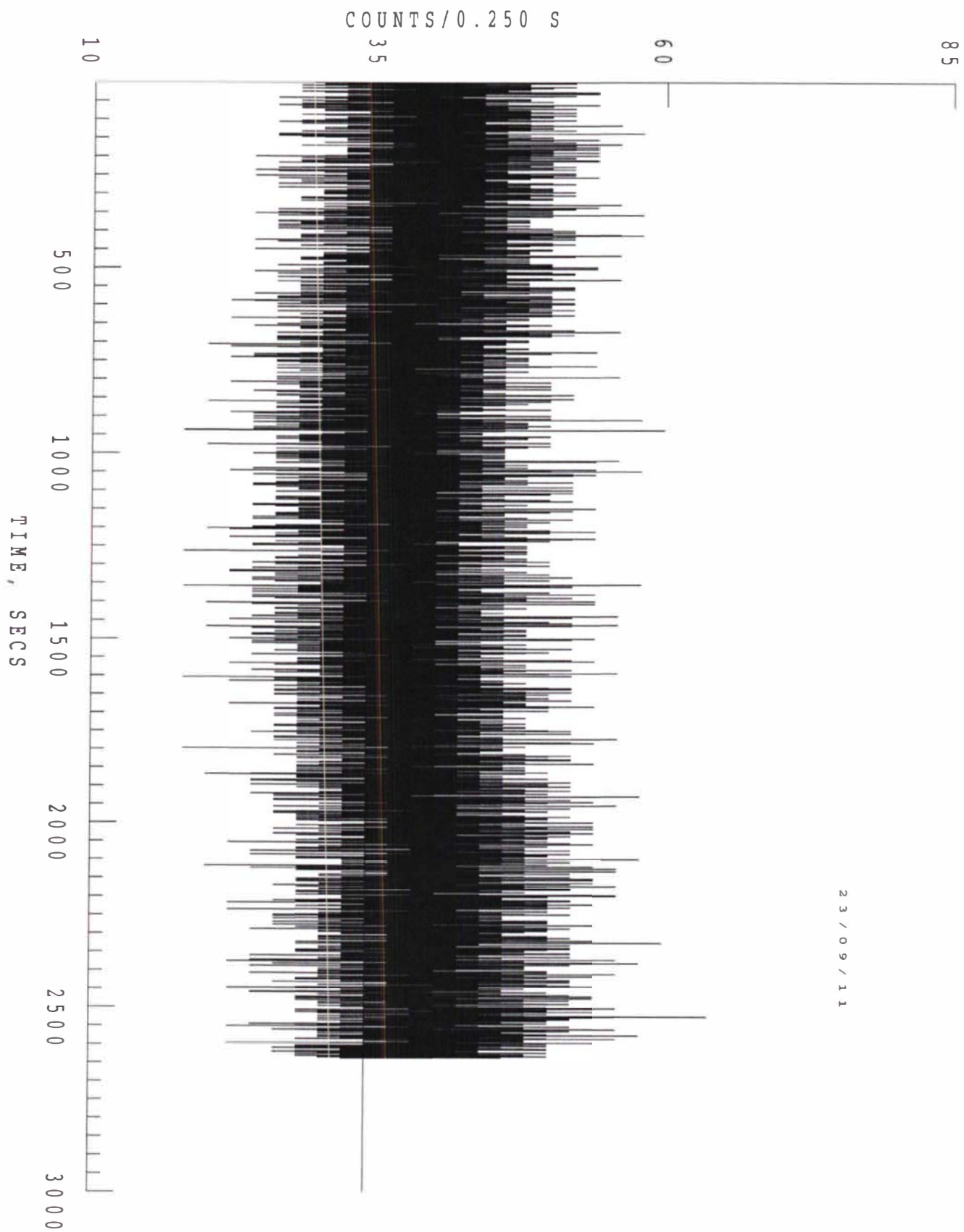
MS01

22/09/11

41779.115

C

50 - 3000 keV



J

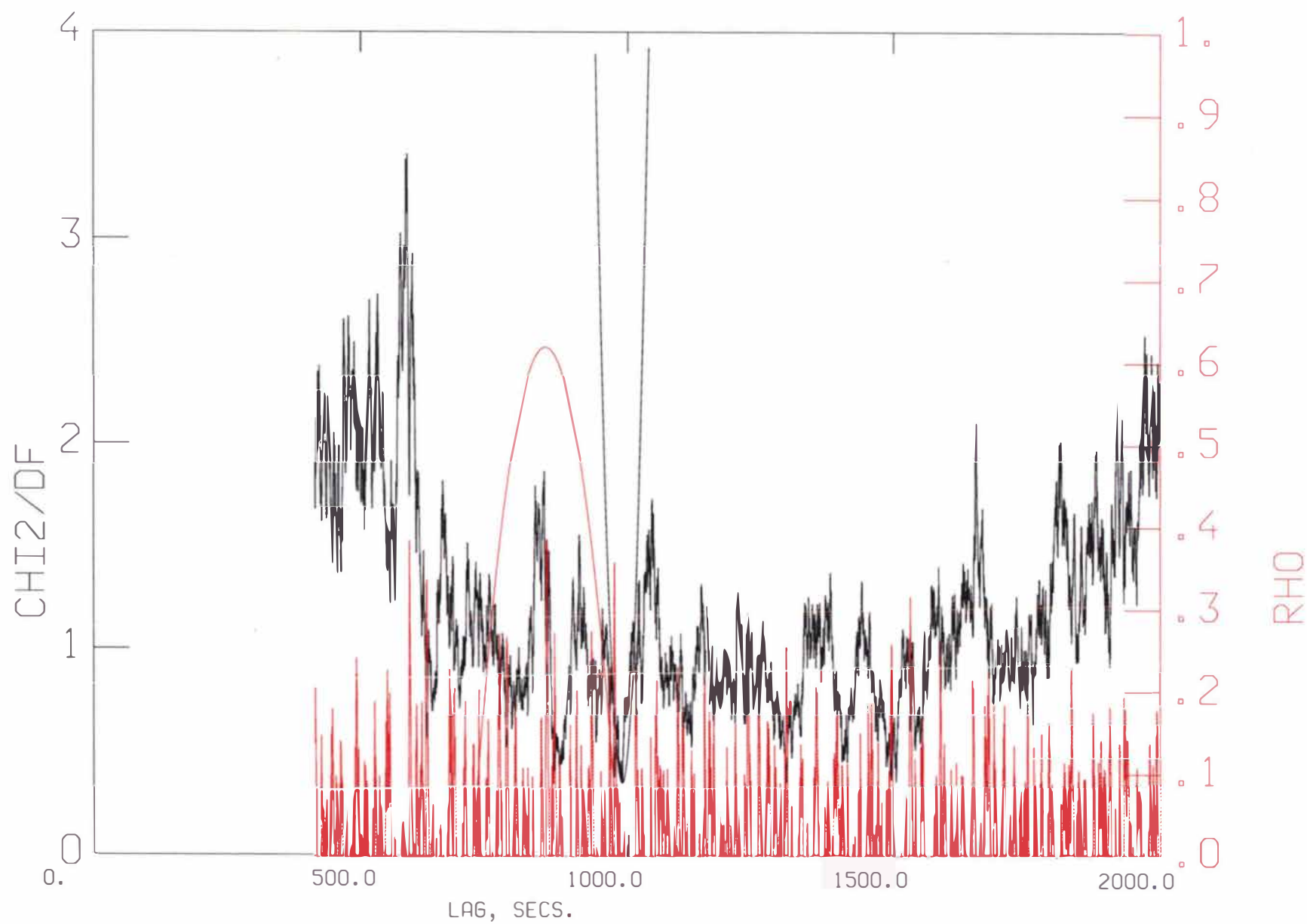
SUZAKU

-MS01 HEND CORRELATION

22/09/11

43125.561

5/12/11

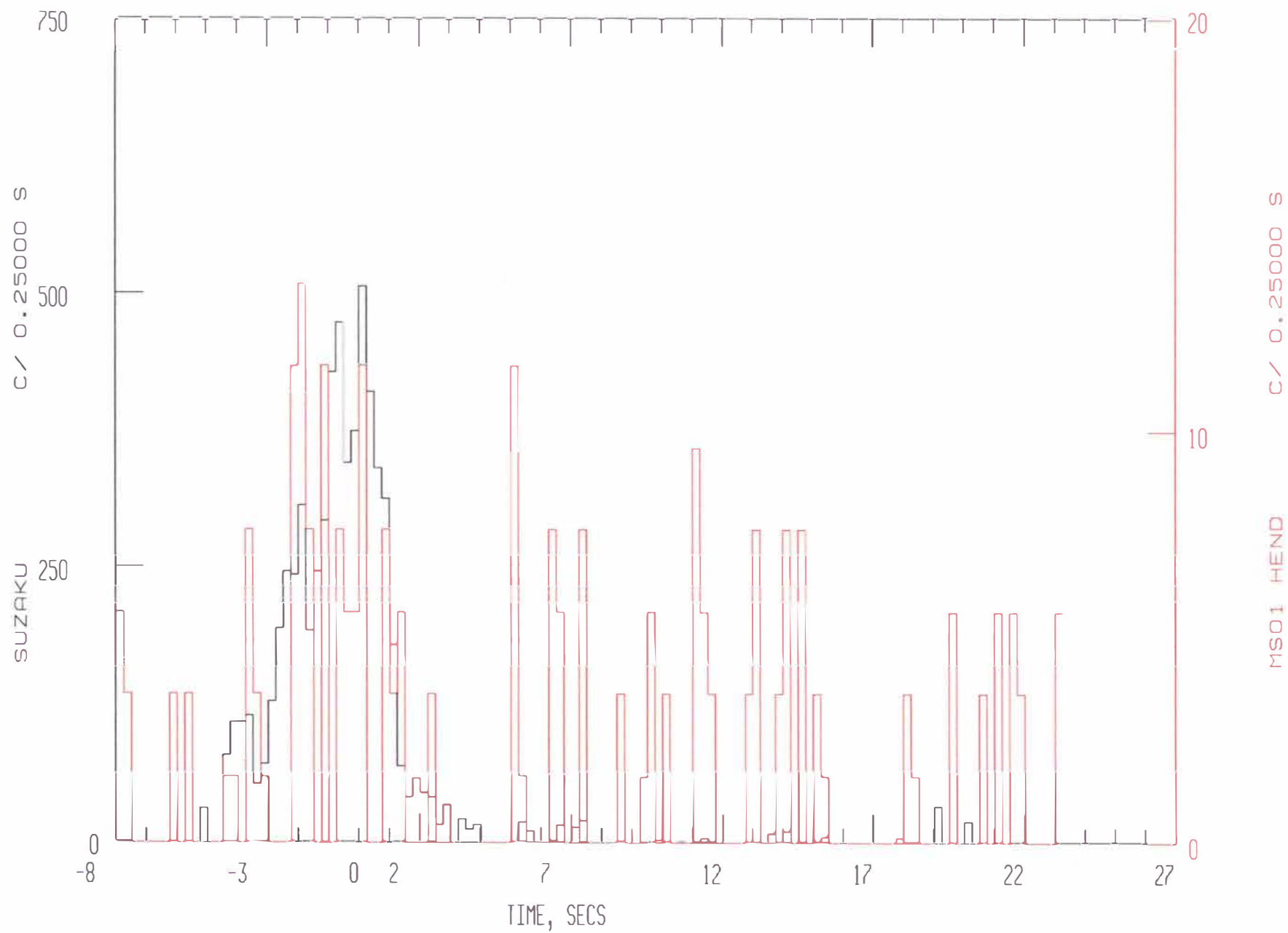


J

SUZAKU -MS01 HEND CORRELATION

22/09/11 43125.561

5/12/11

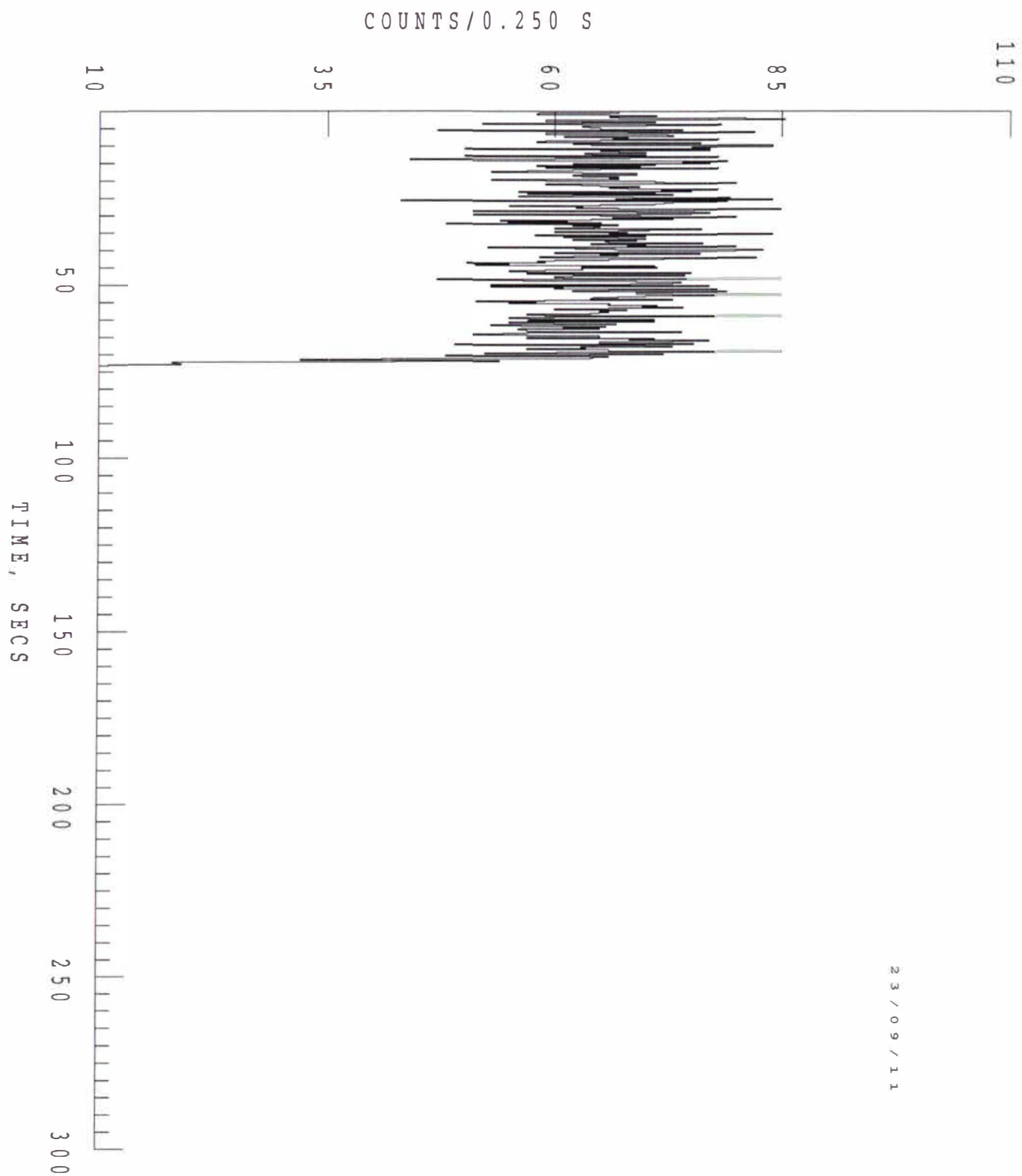


HESSI

22/09/11 42975.000 (SUZAKU_20110922_43125)

C

25- 150 keV



Subject: [Ipn] BAT lightcurve for trigger at 110922_1628

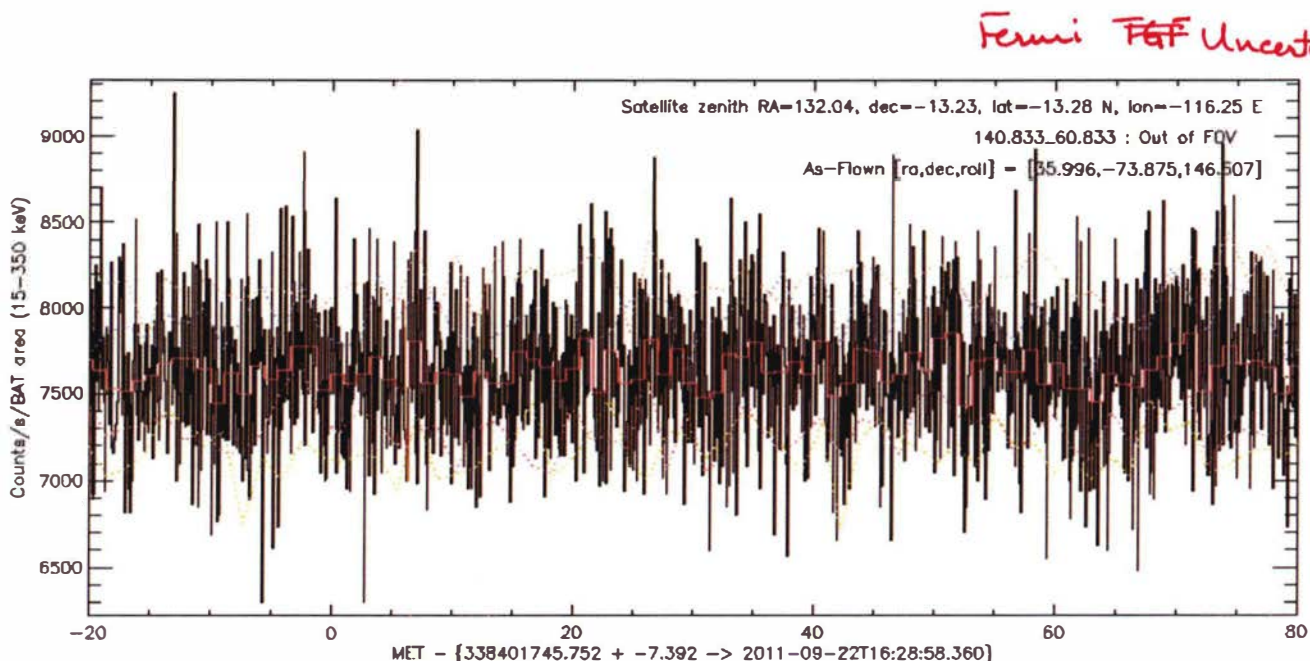
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 22 Sep 2011 13:55:39 -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/110922_1628.png



```
% /usr/local/bin/swinfo -o 338401745.752 -s 140.833_60.833
Time(MET + UTC -> UT):      338401745.752 + -7.392 -> 2011-09-22T16:28:58.360
Swift Zenith(RA,dec):       132.04, -13.23
Swift Location(lon,lat,alt): -116.25 E, -13.28 N, 578 km
Obs Sequence Number:        00040723001
Obs Target Name:             Harris-mb06
Obs Date and Times:          2011-09-22 16:24:54 - 16:35:50
Obs Pointing(ra,dec,roll):   35.996, -73.875, 146.61
140.833_60.833_imageloc (boresight_dist, angle): (151, -161)
140.833_60.833_exposure (cm^2 cos adjusted): 0
140.833_60.833_altitude: 39 (up)
```

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

/tmp/110922_1628_bat64ms_ipn

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

/tmp/110922_1628.png

/tmp/110922_1628.png

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

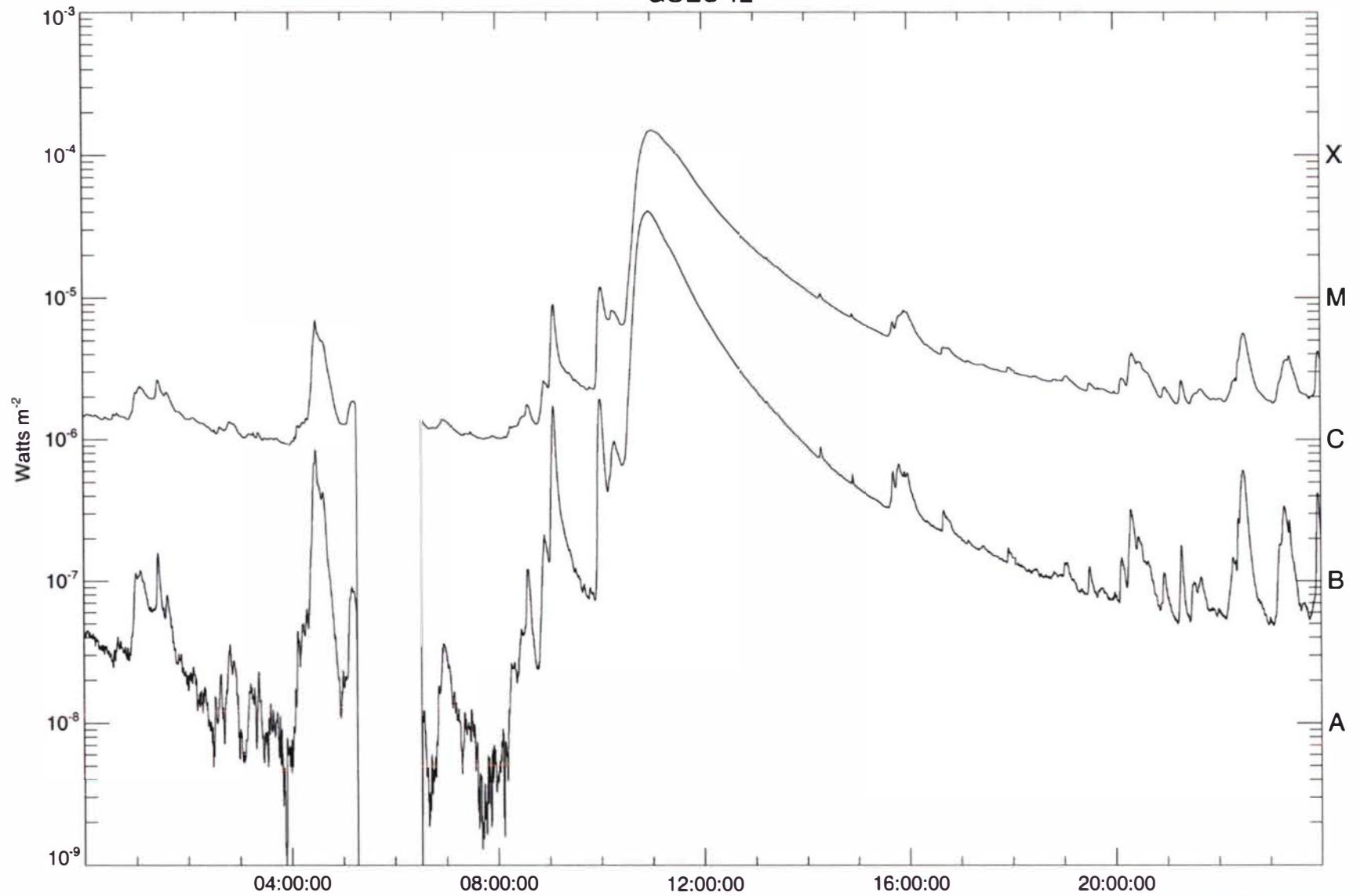
Part 1.4

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

Part 1.5

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

GOES 12



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

Plot created: 11/09/25, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

23/09/11

22317.148

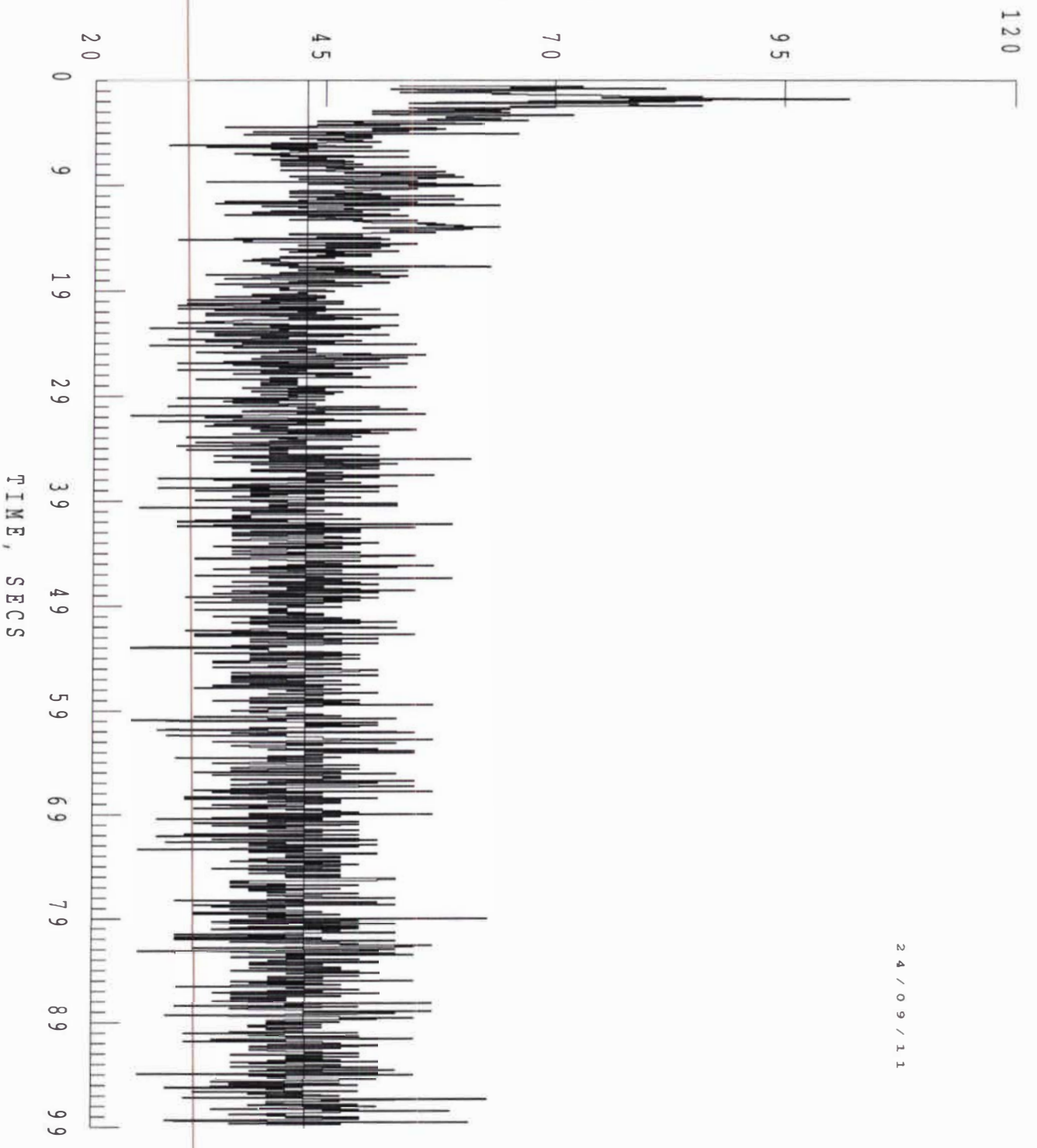
06:11:57

A

50 - 200 keV

Solar 

COUNTS/0.064 S



24/09/11

KONUS HRES 20110923 22317

TRIGGER TIME: 23/09/11 DOY 266 Julian 2455828.75830 UT = 06.199 06:11:57 (22317.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

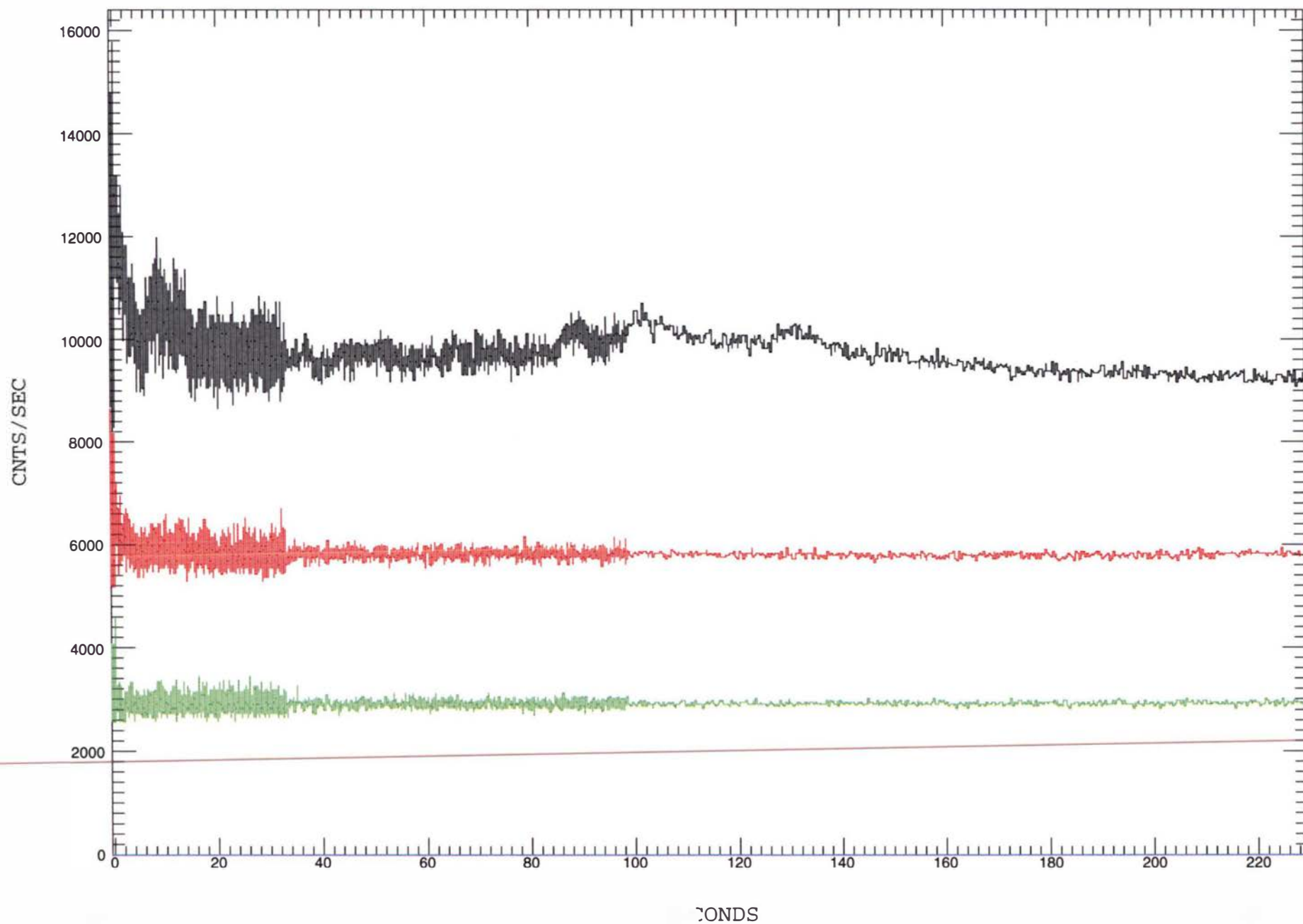
Chan 4 : [> 10 MeV]

Channel 1 + 7800

Channel 2 + 5200

Channel 3 + 2600

Channel 4 + 0



MS01

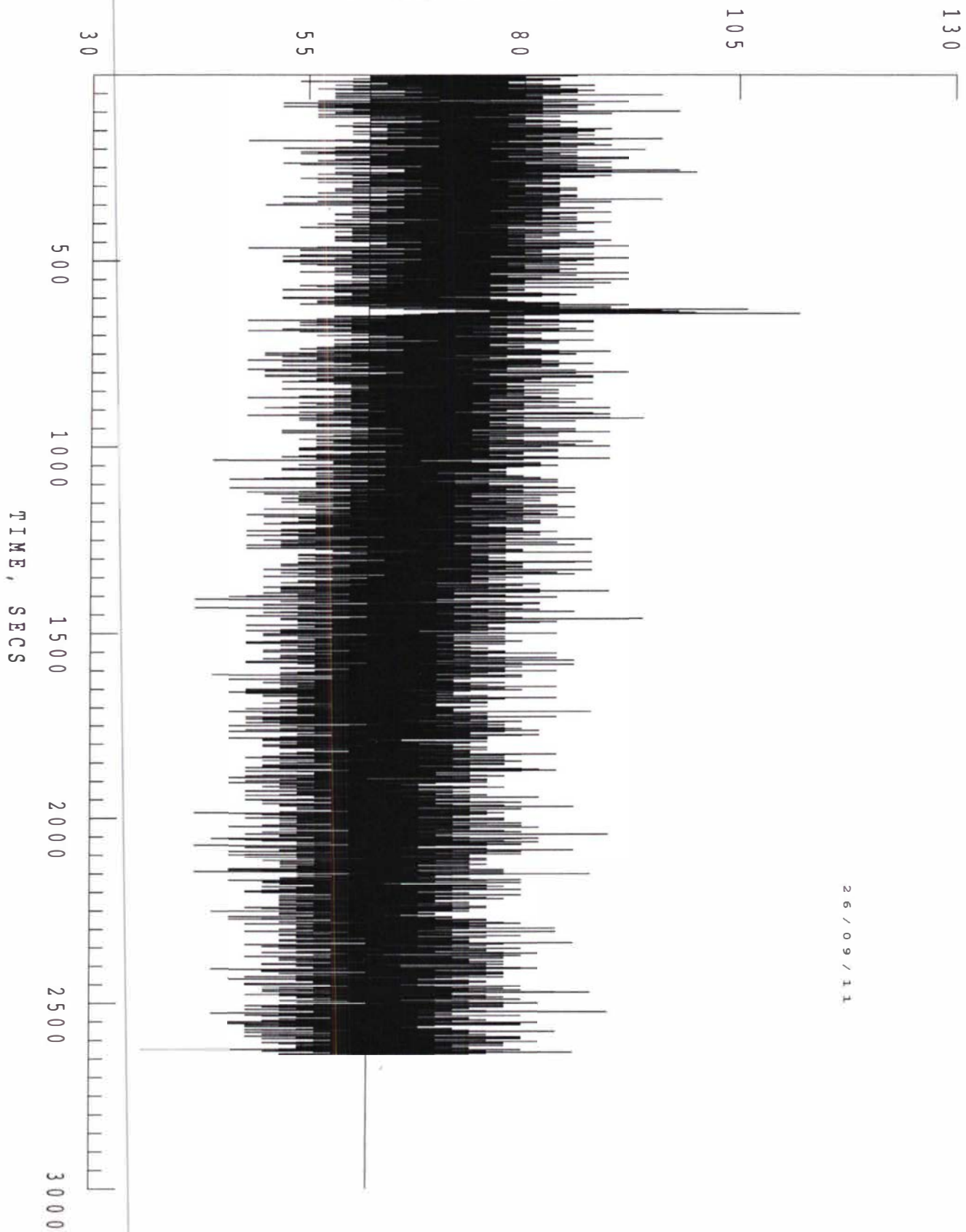
23/09/11

20957.977

A

50 - 3000 keV

COUNTS/0.250 S



26/09/11

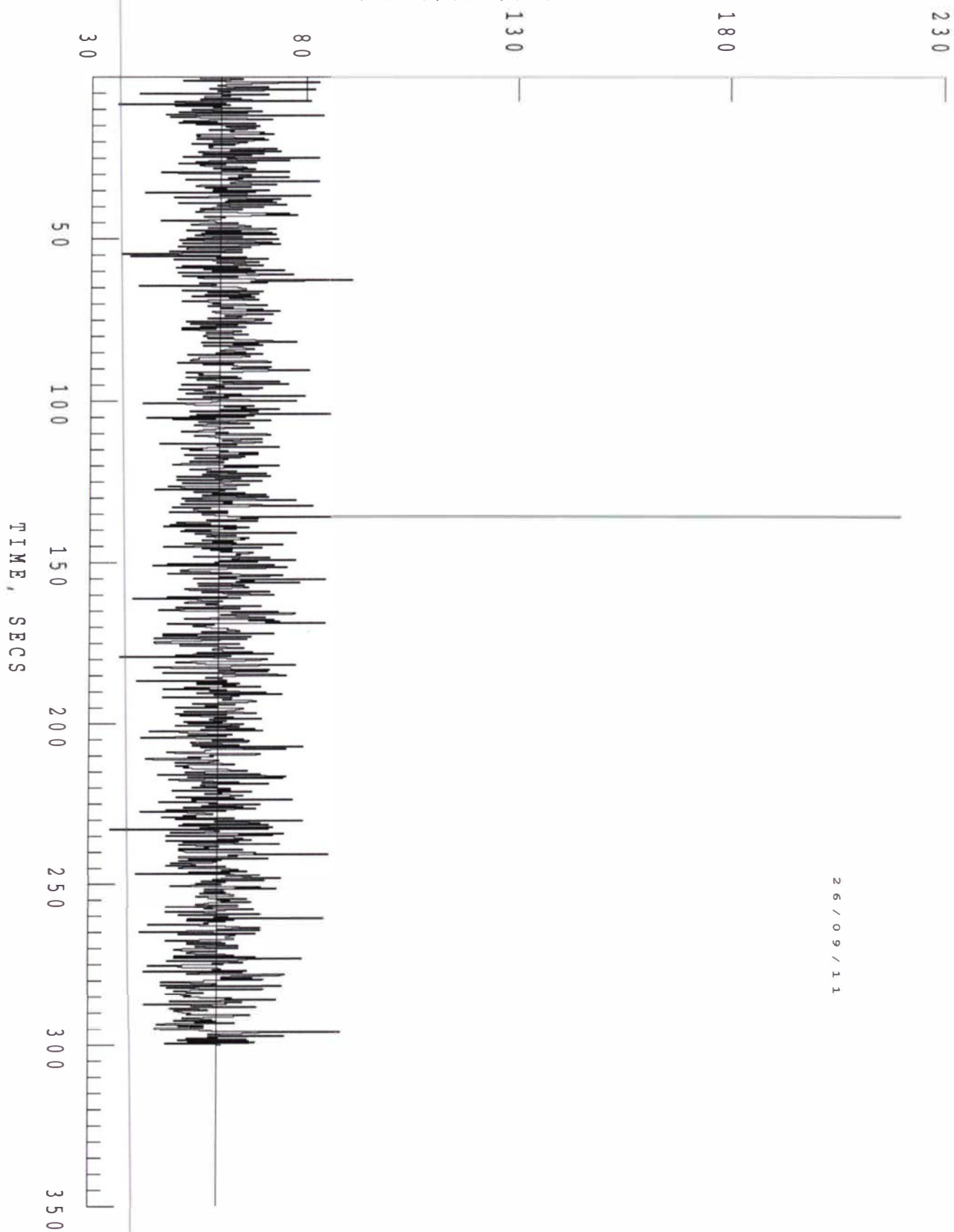
HESSI

23/09/11 22167.000 (KONUS2_20110923_22317)

A

25- 150 keV

COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 110923_0611

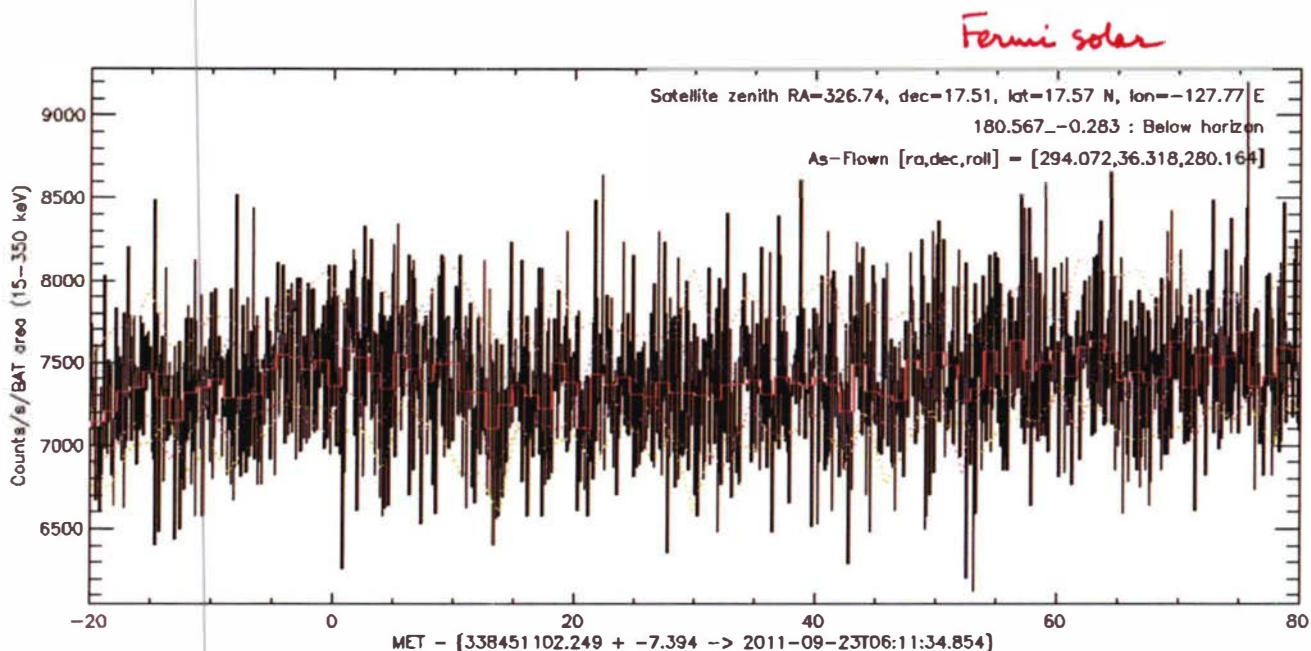
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 23 Sep 2011 02:32:45 -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

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/tmp/110923_0611.png



```
% /usr/local/bin/swinfo -o 338451102.248 -s 140.000 -42.467
Time(MET + UTCF -> UT): 338451102.249 + -7.394 -> 2011-09-23T06:11:34.854
Swift Zenith(RA,dec): 326.74, 17.51
Swift Location(lon,lat,alt): -127.77 E, 17.57 N, 591 km
Obs Sequence Number: 00503652004
Obs Target Name: GRB 110921A
Obs Date and Times: 2011-09-23 05:56:54 - 06:18:14
Obs Pointing(ra,dec,roll): 294.072, 36.318, 280.16
140.000_-42.467_imageloc (boresight_dist, angle): (159, -125)
140.000_-42.467_exposure (cm^2 cos adjusted): 0
140.000_-42.467_altitude: -41 (down)
```

```
% /usr/local/bin/swinfo -o 338451102.248 -s 172.983 -1.400
Time(MET + UTCF -> UT): 338451102.249 + -7.394 -> 2011-09-23T06:11:34.854
Swift Zenith(RA,dec): 326.74, 17.51
Swift Location(lon,lat,alt): -127.77 E, 17.57 N, 591 km
Obs Sequence Number: 00503652004
Obs Target Name: GRB 110921A
Obs Date and Times: 2011-09-23 05:56:54 - 06:18:14
Obs Pointing(ra,dec,roll): 294.072, 36.318, 280.16
172.983_-1.400_imageloc (boresight_dist, angle): (115, -82)
172.983_-1.400_exposure (cm^2 cos adjusted): 0
172.983_-1.400_altitude: -36 (down)
```

```
% /usr/local/bin/swinfo -o 338451102.248 -s 176.717 2.617
Time(MET + UTCF -> UT): 338451102.249 + -7.394 -> 2011-09-23T06:11:34.854
Swift Zenith(RA,dec): 326.74, 17.51
Swift Location(lon,lat,alt): -127.77 E, 17.57 N, 591 km
Obs Sequence Number: 00503652004
Obs Target Name: GRB 110921A
Obs Date and Times: 2011-09-23 05:56:54 - 06:18:14
Obs Pointing(ra,dec,roll): 294.072, 36.318, 280.16
176.717 2.617_imageloc (boresight_dist, angle): (110, -81)
176.717 2.617_exposure (cm^2 cos adjusted): 0
176.717 2.617_altitude: -30 (down)
```

```
% /usr/local/bin/swinfo -o 338451102.248 -s 180.183 0.000
Time(MET + UTCF -> UT): 338451102.249 + -7.394 -> 2011-09-23T06:11:34.854
Swift Zenith(RA,dec): 326.74, 17.51
```

```
Swift Location(lon,lat,alt): -127.77 E, 17.57 N, 591 km
Obs Sequence Number: 00503652004
Obs Target Name: GRB 110921A
Obs Date and Times: 2011-09-23 05:56:54 - 06:18:14
Obs Pointing(ra,dec,roll): 294.072, 36.318, 280.16
180.183_0.000_imageloc (boresight_dist, angle): (109, -85)
180.183_0.000_exposure (cm^2 cos adjusted): 0
180.183_0.000_altitude: -29 (down)

% /usr/local/bin/swinfo -o 338451102.248 -s 180.567 -0.283
Time(MET + UTCF -> UT): 338451102.249 + -7.394 -> 2011-09-23T06:11:34.854
Swift Zenith(RA,dec): 326.74, 17.51
Swift Location(lon,lat,alt): -127.77 E, 17.57 N, 591 km
Obs Sequence Number: 00503652004
Obs Target Name: GRB 110921A
Obs Date and Times: 2011-09-23 05:56:54 - 06:18:14
Obs Pointing(ra,dec,roll): 294.072, 36.318, 280.16
180.567_-0.283_imageloc (boresight_dist, angle): (109, -86)
180.567_-0.283_exposure (cm^2 cos adjusted): 0
180.567_-0.283_altitude: -29 (down)
```

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

/tmp/110923_0611.png

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

/tmp/110923_0611_bat64ms_lpn

/tmp/110923_0611_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

MS01

23/09/11

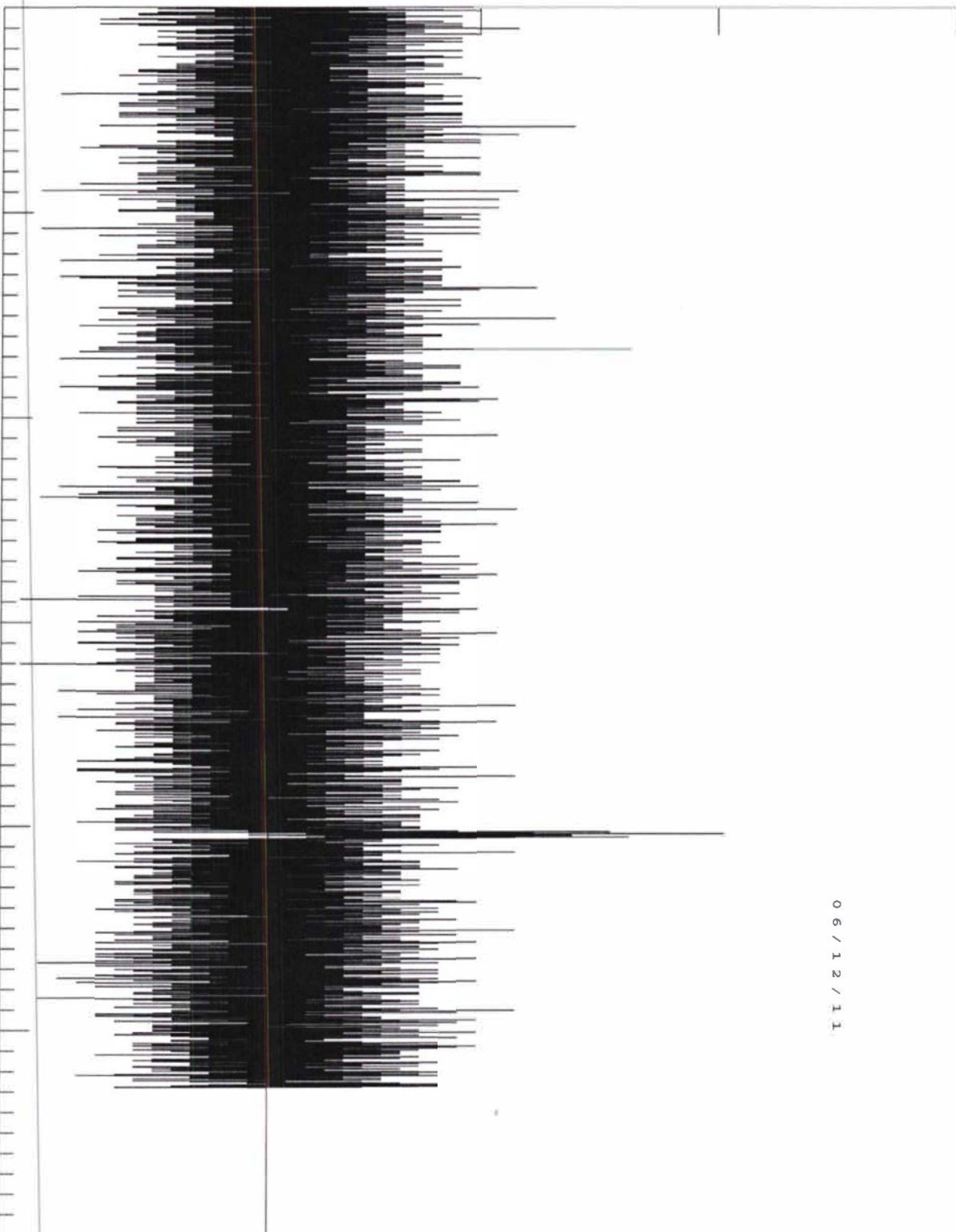
33797.765

50 - 3000 keV

COUNTS/0.250 S

140
115
90
65
40

TIME, SECS
40
500
1000
1500
2000
2500
3000



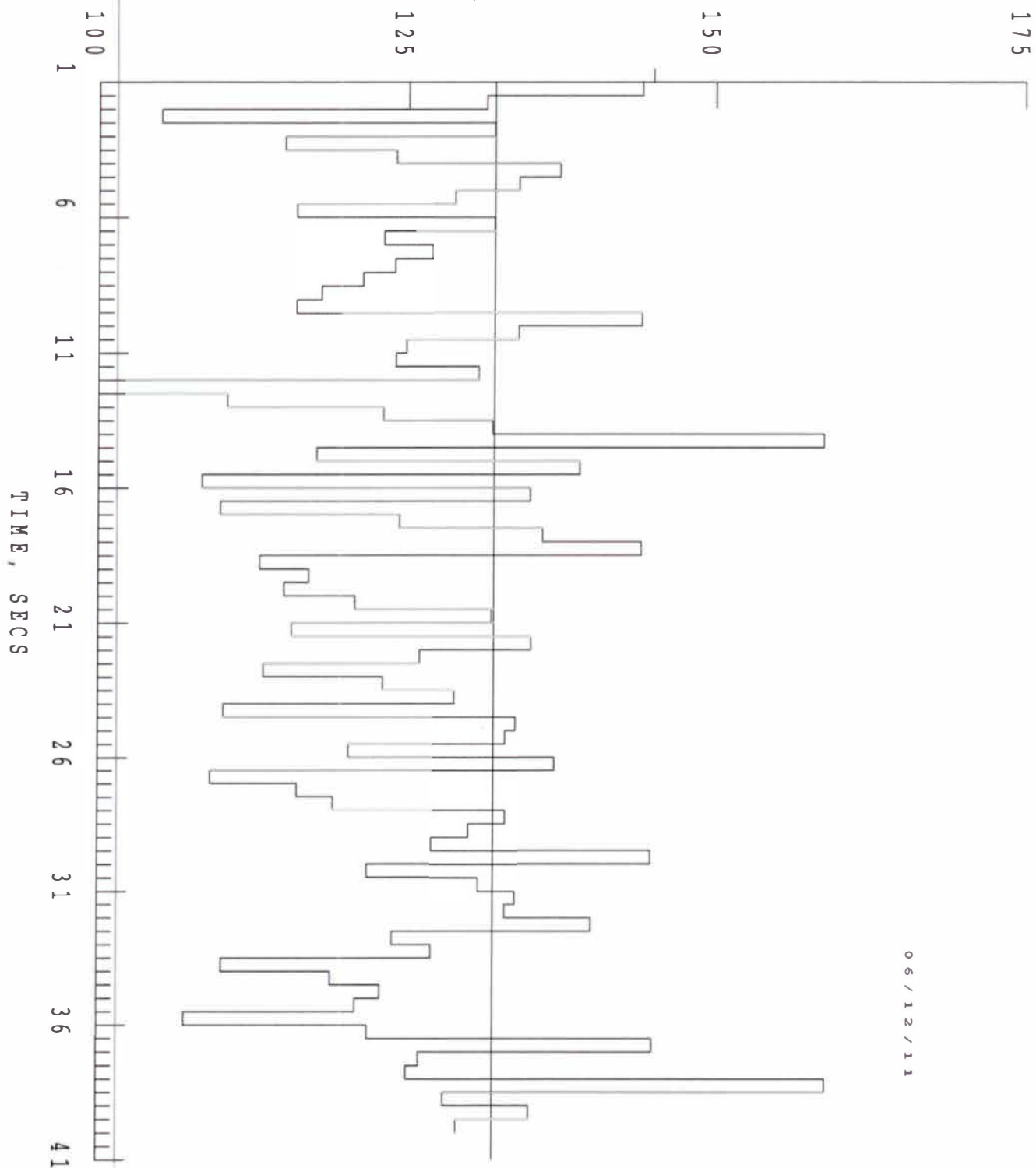
06/12/11

HESSI

23/09/11 35132.000 (SUZAKU_RI_20110923_35152)

25- 150 keV

COUNTS/0.500 S



06/12/11

SUZAKU

23/09/11

41563.550

11:32:43

B

50 - 240 keV

Earth is at 24.8, -19.01

Sun is at 179.6, 0.1

Earth-Sun-Sun $L = 148^\circ$

COUNTS/0.016 S

20

45

70

95

Fermi position is 191.35, -29.02,
34.5
(29.4° from Sun)

0 2

12

22

32

42

52

62

TIME, SECS

23/09/11

MS01

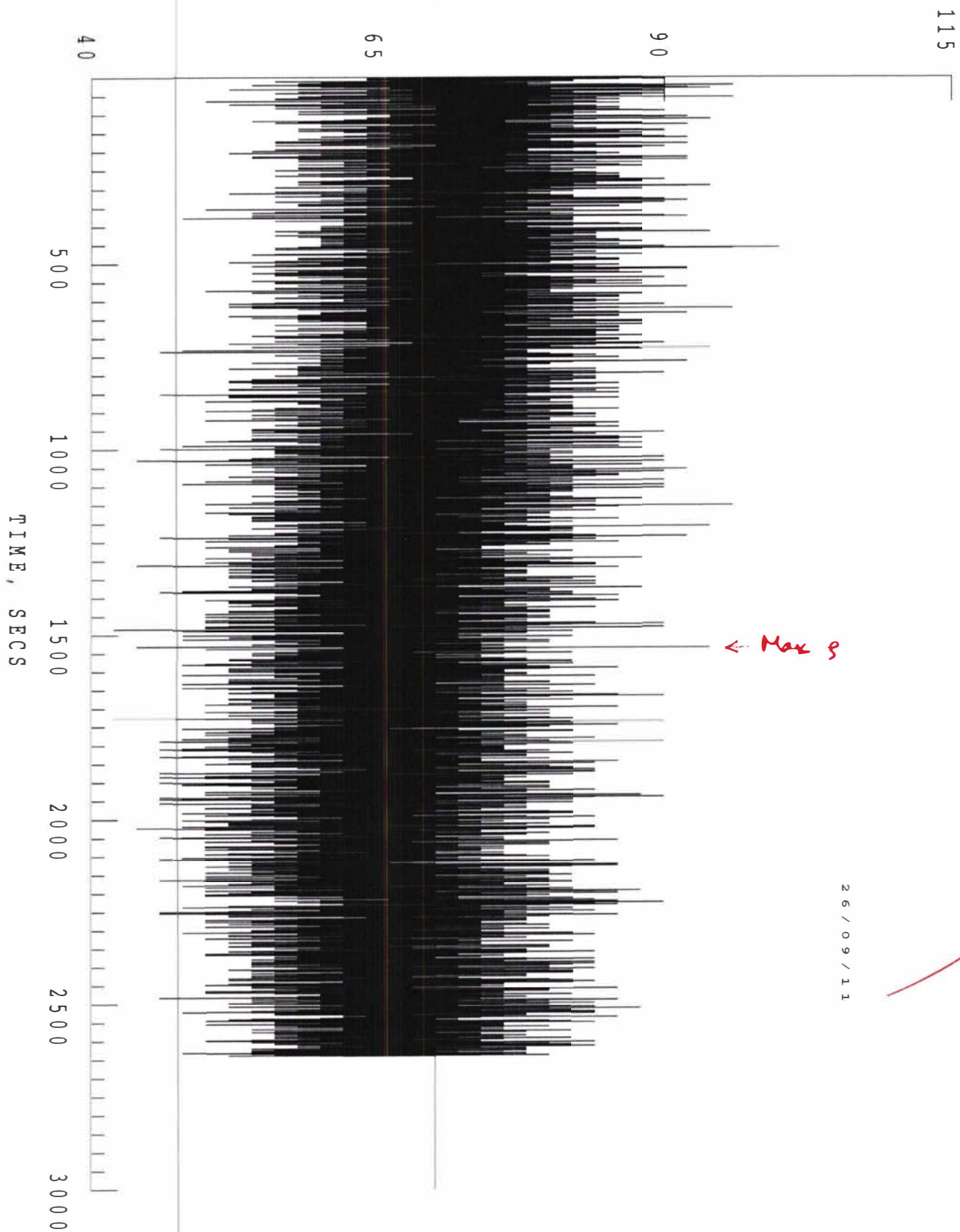
23/09/11

40217.648

B

50 - 3000 keV

COUNTS/0.250 S





SUZAKU

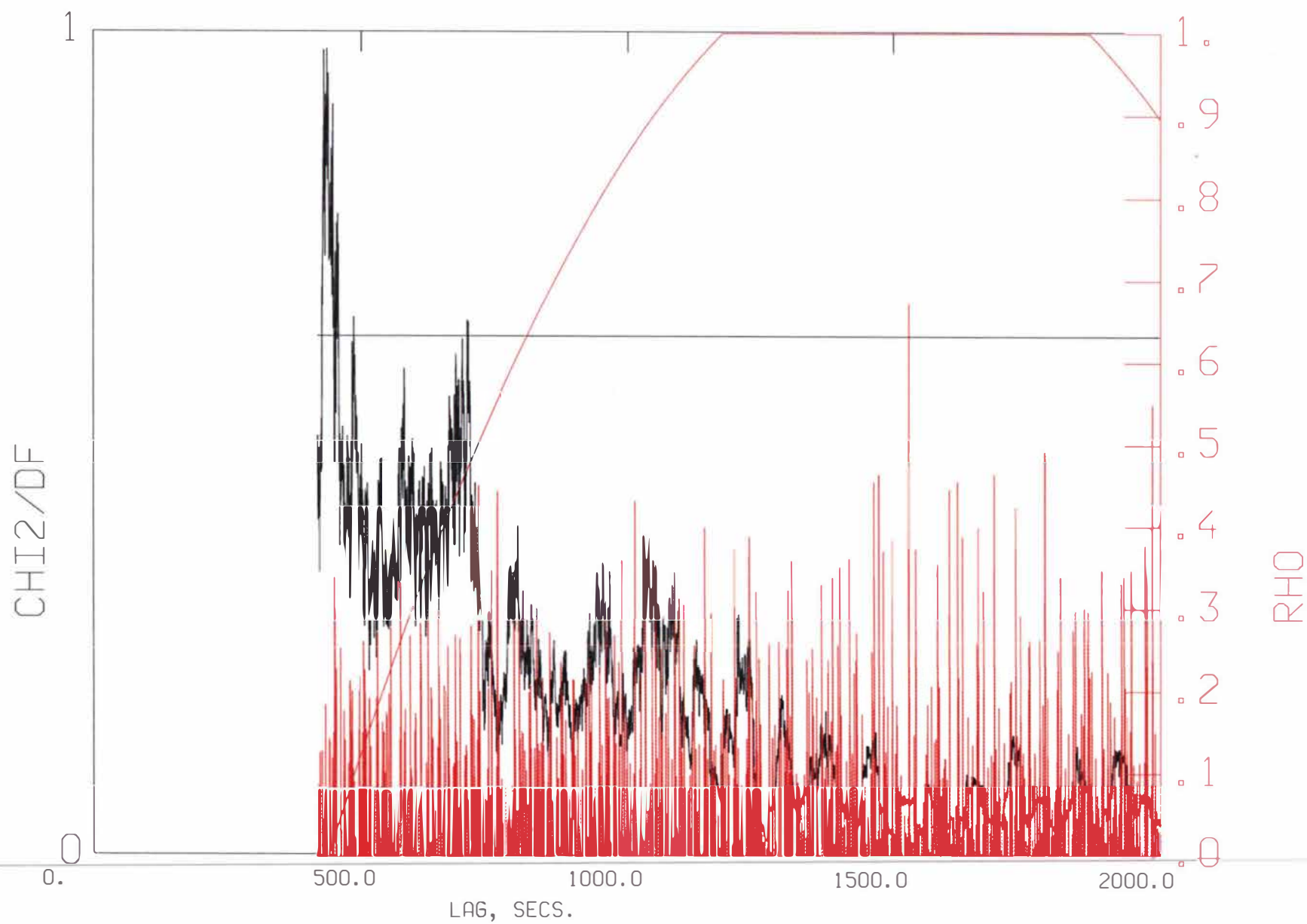
-MS01 HEND

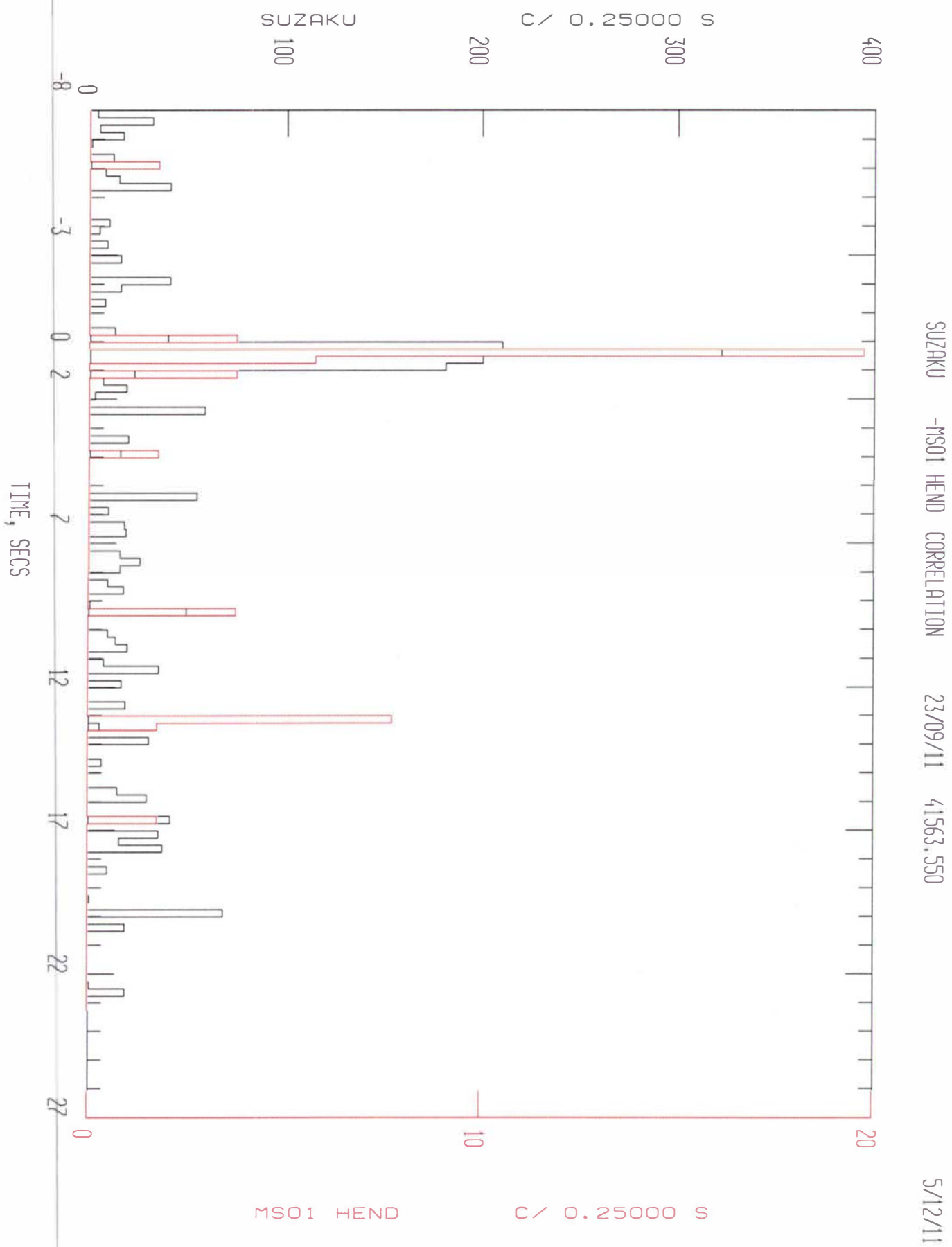
CORRELATION

23/09/11

41563.550

5/12/11





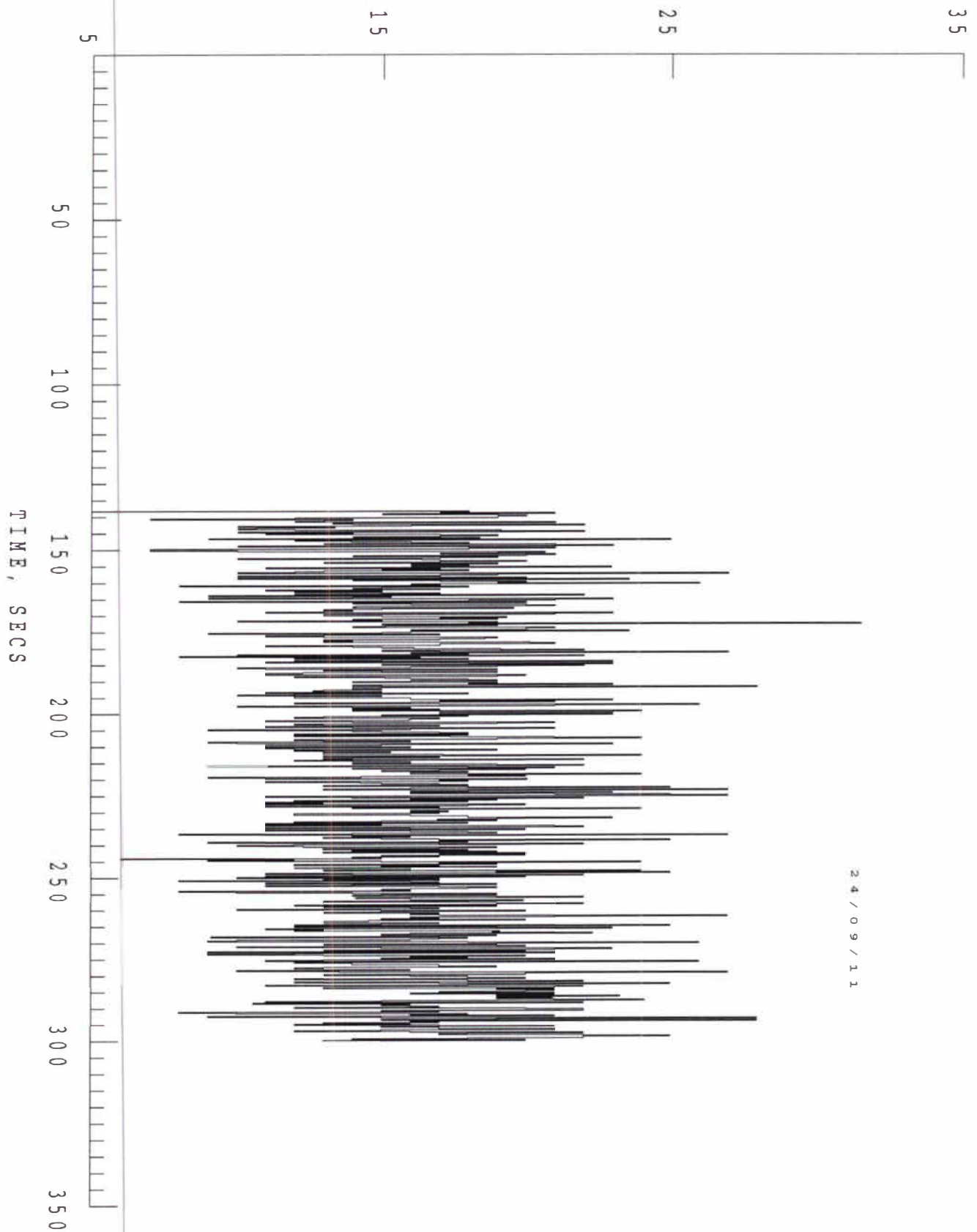
HESSI

23/09/11 41413.000 (SUZAKU_20110923_41563)

25- 150 keV

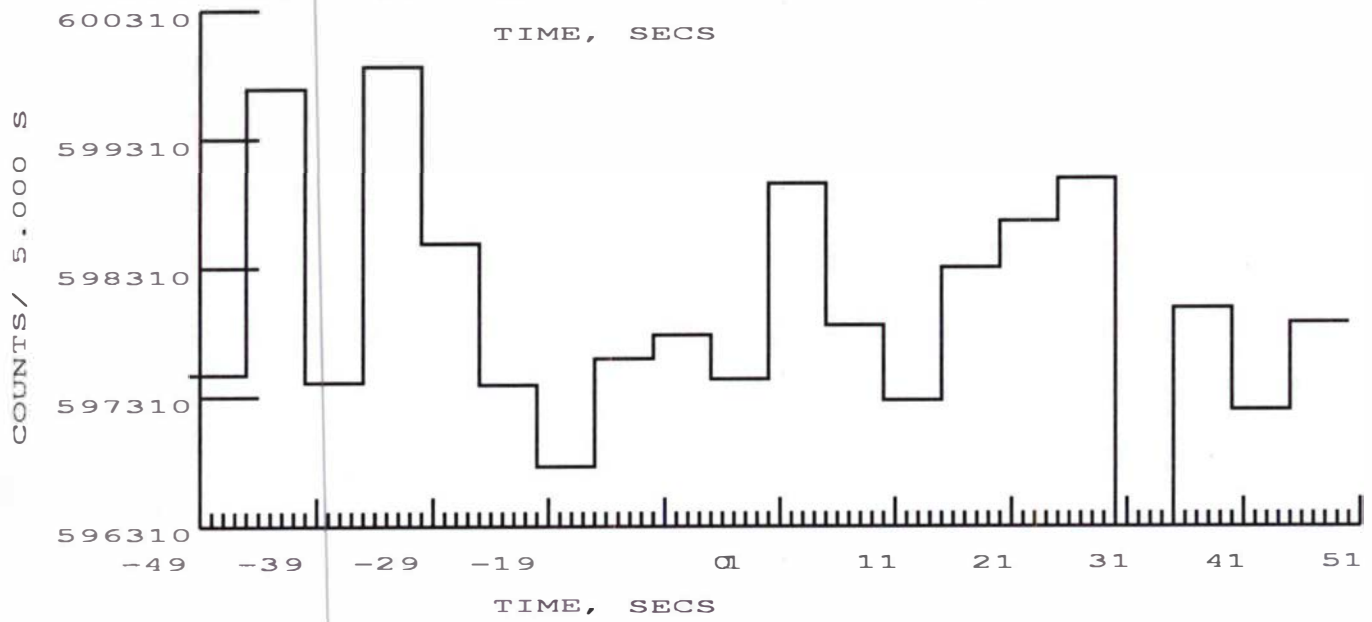
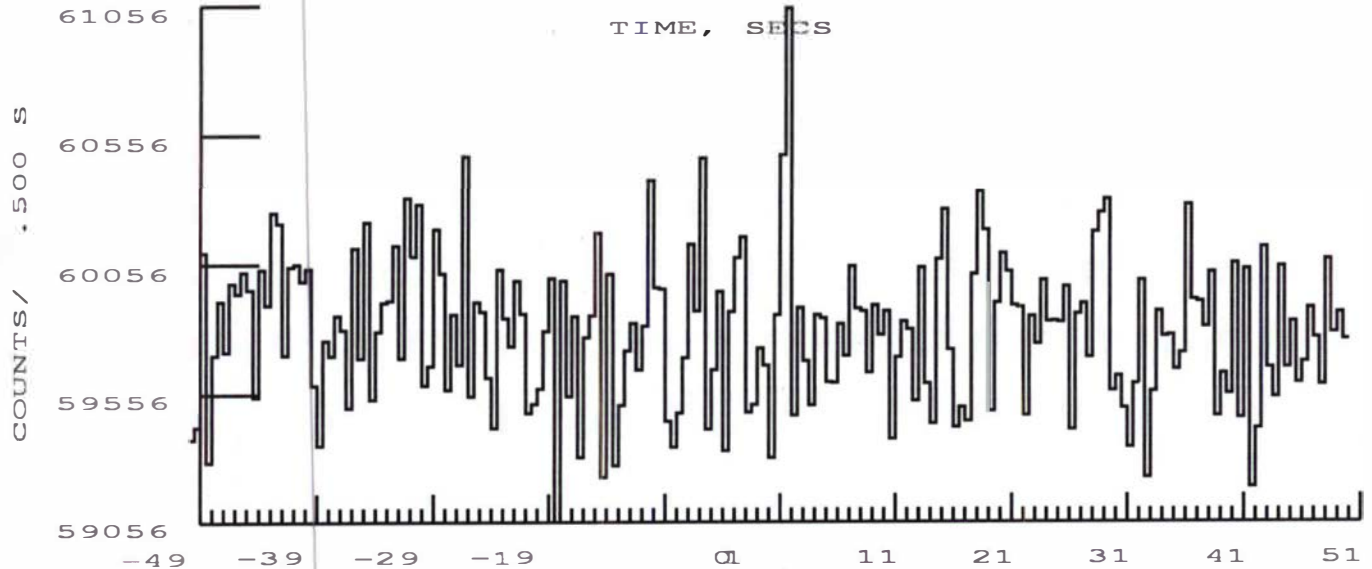
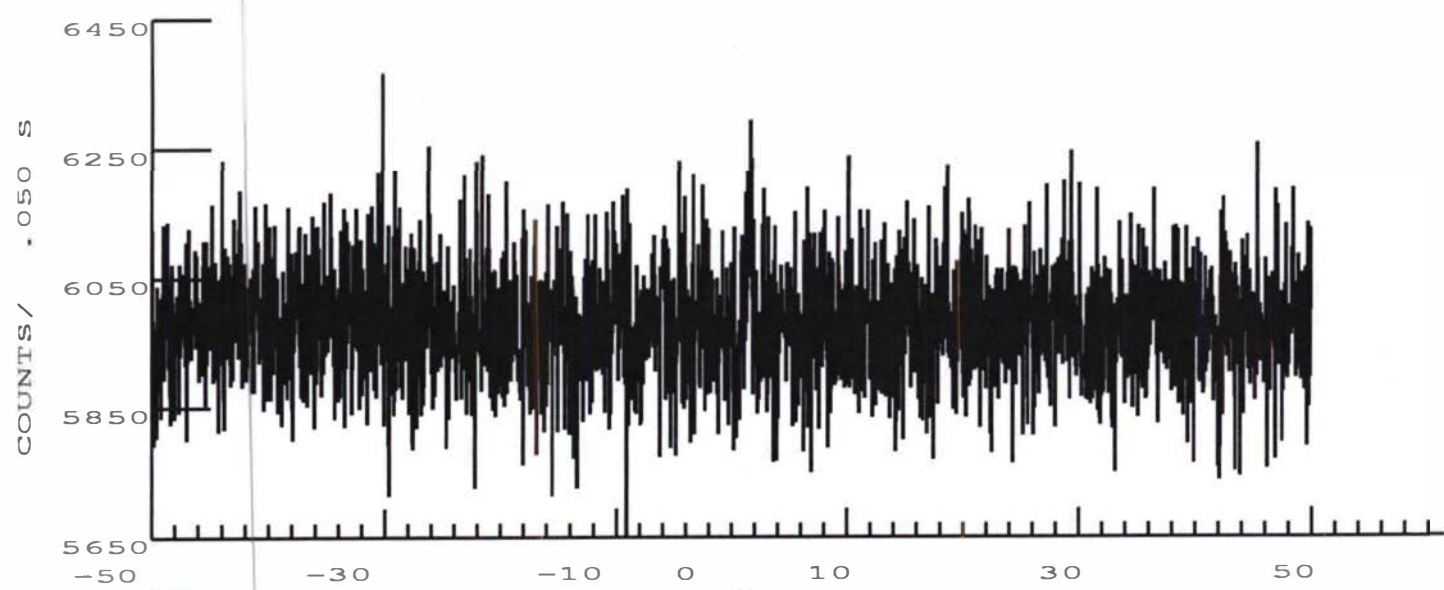
B

COUNTS/0.250 S



B

INTEGRAL 23/09/11 41563.000 11:32:43.0 20/01/14



Subject: [lpn] BAT lightcurve for trigger at 110923_1132

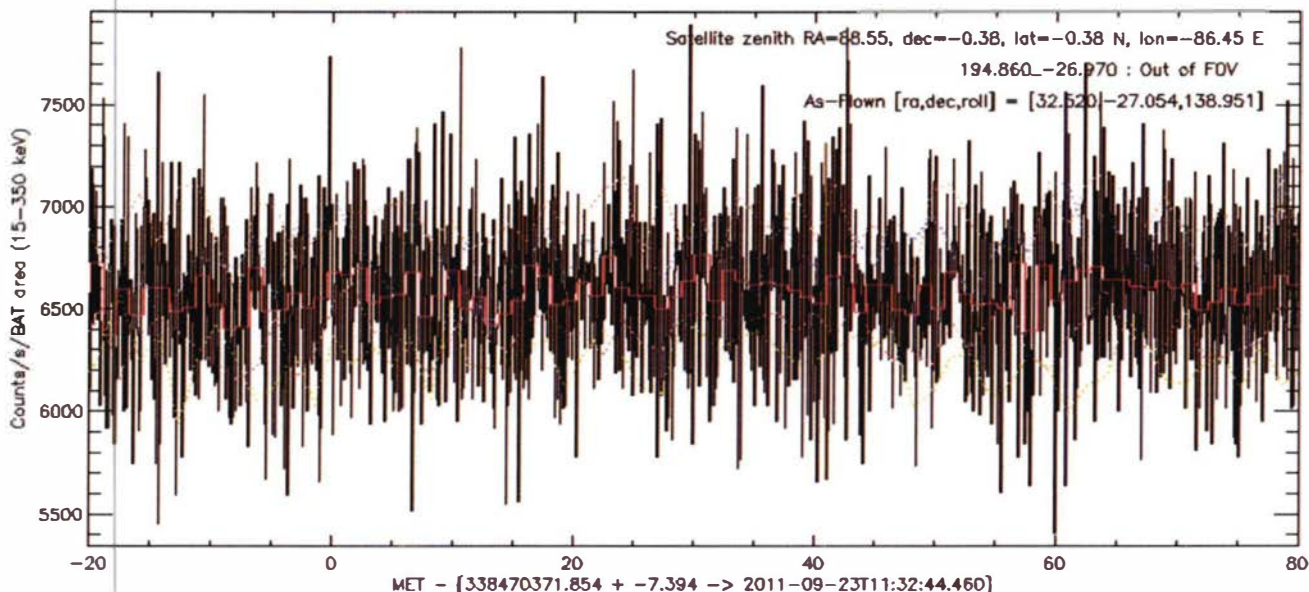
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 23 Sep 2011 08:31:41 -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/110923_1132.png



```
% /usr/local/bin/swinfo -o 338470371.854 -s 191.350 -27.067
Time(MET + UTC -> UT):      338470371.854 + -7.394 -> 2011-09-23T11:32:44.460
Swift Zenith(RA,dec):      88.55, -0.38
Swift Location(lon,lat,alt): -86.45 E, -0.38 N, 583 km
Obs Sequence Number:      00020187005
Obs Target Name:          GRB 110918A
Obs Date and Times:       2011-09-23 11:25:54 - 11:34:51
Obs Pointing(ra,dec,roll): 32.520, -27.054, 138.95
191.350_-27.067_imageloc (boresight_dist, angle): (122, -71)
191.350_-27.067_exposure (cm^2 cos adjusted): 0
191.350_-27.067_altitude: 12 (depressed but unattenuated)
```

```
% /usr/local/bin/swinfo -o 338470371.854 -s 194.860 -26.970
Time(MET + UTC -> UT):      338470371.854 + -7.394 -> 2011-09-23T11:32:44.460
Swift Zenith(RA,dec):      88.55, -0.38
Swift Location(lon,lat,alt): -86.45 E, -0.38 N, 583 km
Obs Sequence Number:      00020187005
Obs Target Name:          GRB 110918A
Obs Date and Times:       2011-09-23 11:25:54 - 11:34:51
Obs Pointing(ra,dec,roll): 32.520, -27.054, 138.95
194.860_-26.970_imageloc (boresight_dist, angle): (123, -68)
194.860_-26.970_exposure (cm^2 cos adjusted): 0
194.860_-26.970_altitude: 9 (depressed but unattenuated)
```

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

/tmp/110923_1132.png Content-Type: image/png

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

/tmp/110923_1132_bat64ms_ipn

/tmp/110923_1132_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 gcncirc@capella2.gsfc.nasa.gov Mon Sep 26 08:28:36 2011
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: Fermi GBM triggers 110923481, 110924391 and 110925200 are not GRBs
o: khurley@ssl.berkeley.edu
Date: Mon, 26 Sep 2011 11:30:38 -0400 (EDT)
X-Ucb-Scan-Signature: 0e8119b7d4476a9fb4292676ef349d217c06d371
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: 12393
SUBJECT: Fermi GBM triggers 110923481, 110924391 and 110925200 are not GRBs
DATE: 11/09/26 15:30:37 GMT
FROM: Suzanne Foley at MPE <sfoley@mpe.mpg.de>

S. Foley (MPE) and S. Xiong (UAH)
report on behalf of the Fermi GBM Team:

"The Fermi Gamma-ray Burst Monitor (GBM) triggers 338548960 (110924391) at 09:22:38.40 UT on 24 September 2011 and 338618869 (110925200) at 04:47:47.46 UT on 25 September 2011, tentatively classified as GRBs, are in fact due to solar flares. Trigger 338470366 (110923481) at 11:32:44.46 UT on 23 September 2011 is too weak to classify reliably."

41564

07/12/11

MESSENGER

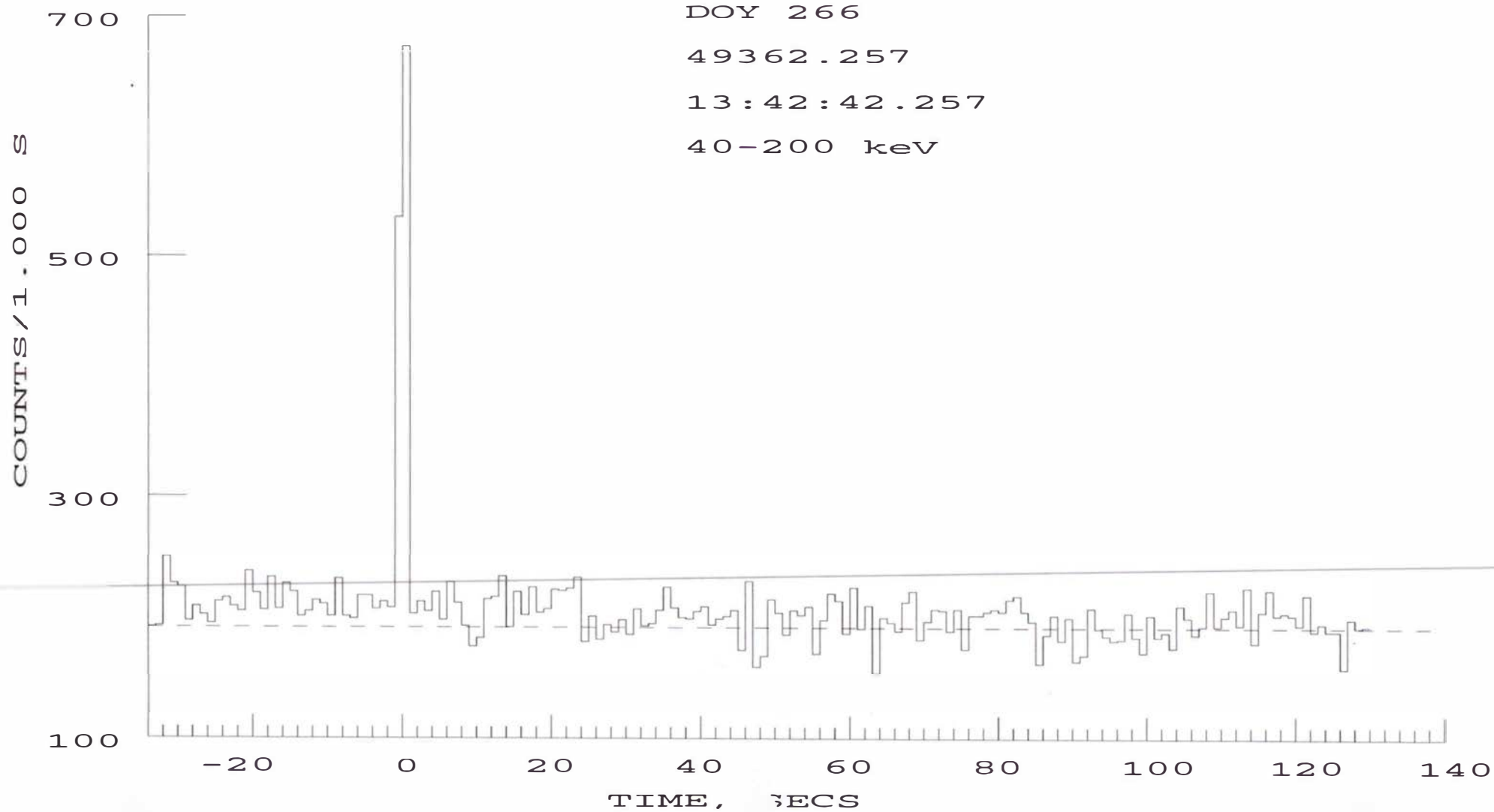
23/09/11

DOY 266

49362.257

13:42:42.257

40-200 keV



Date: Jul 26 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?

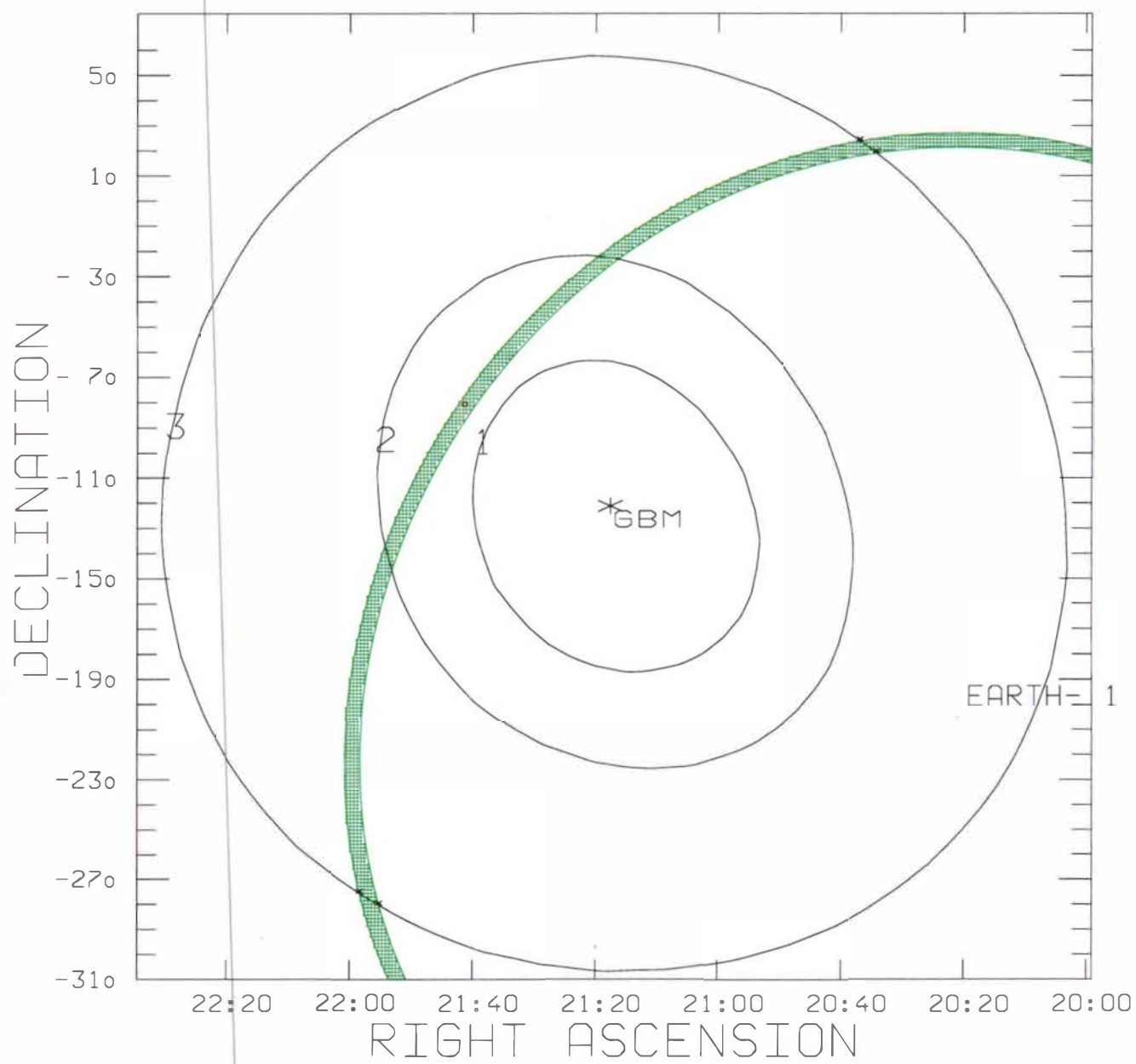
7. For INTEGRAL events

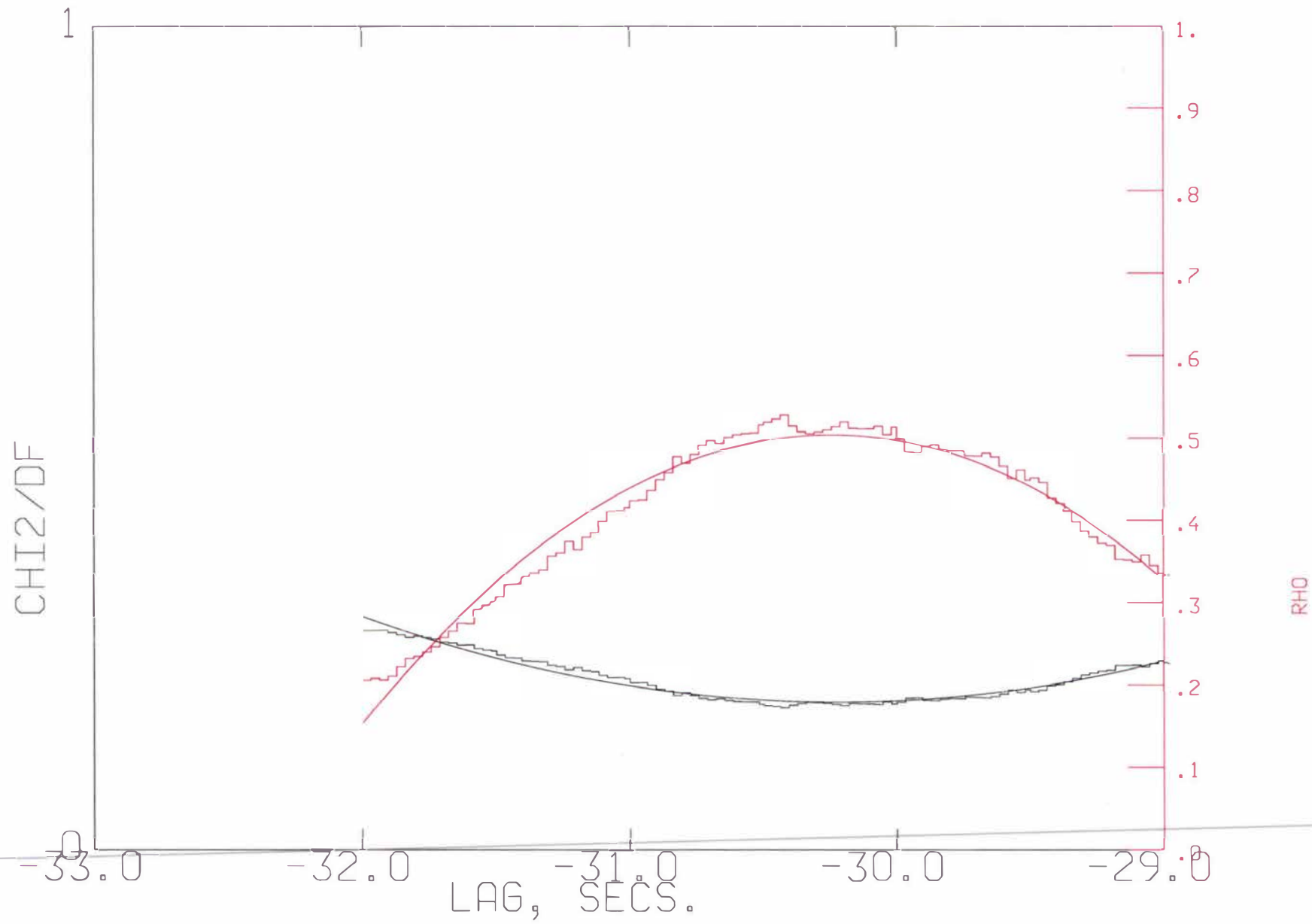
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

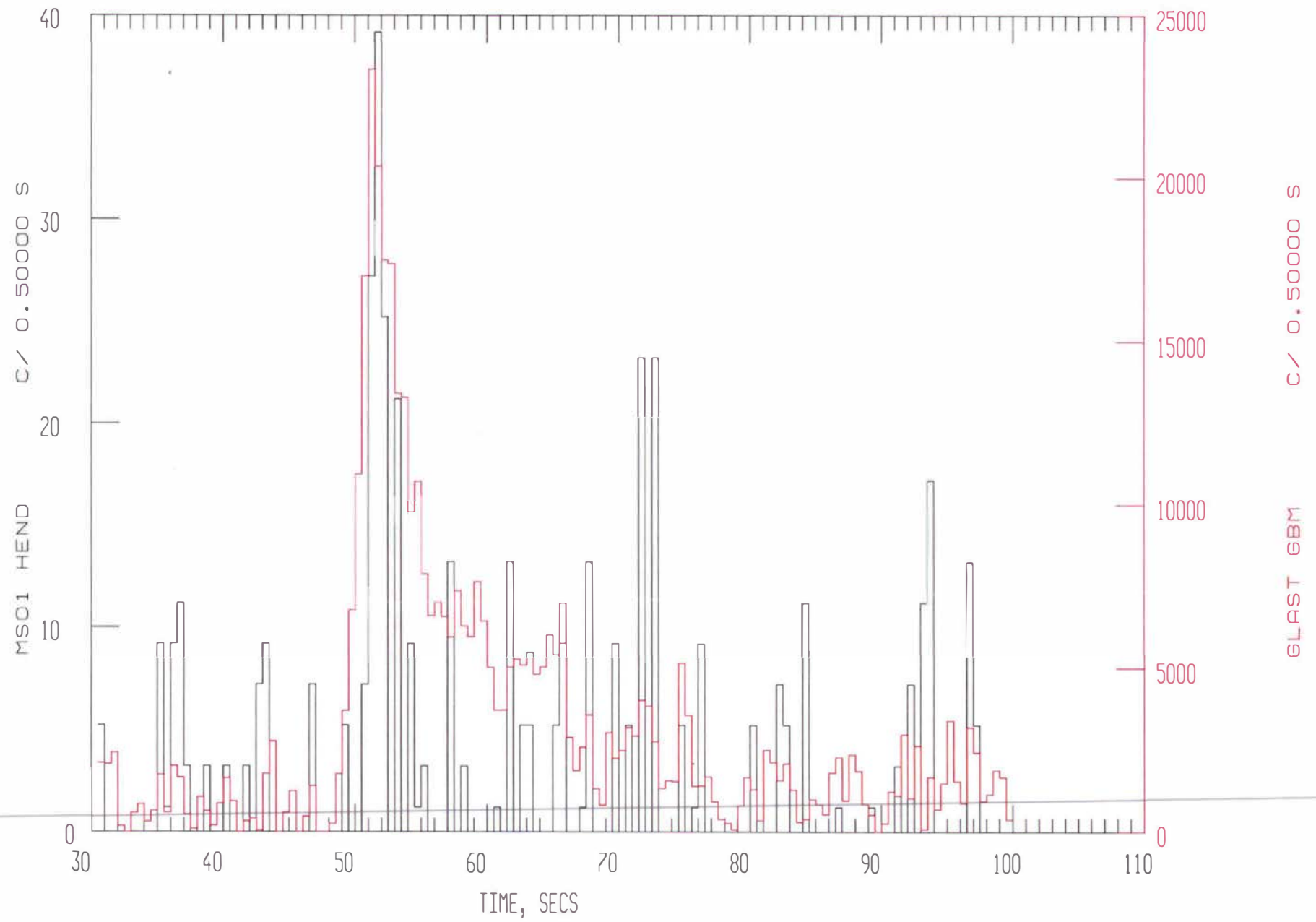
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

GRB110923 ~72067 S

26/07/2016







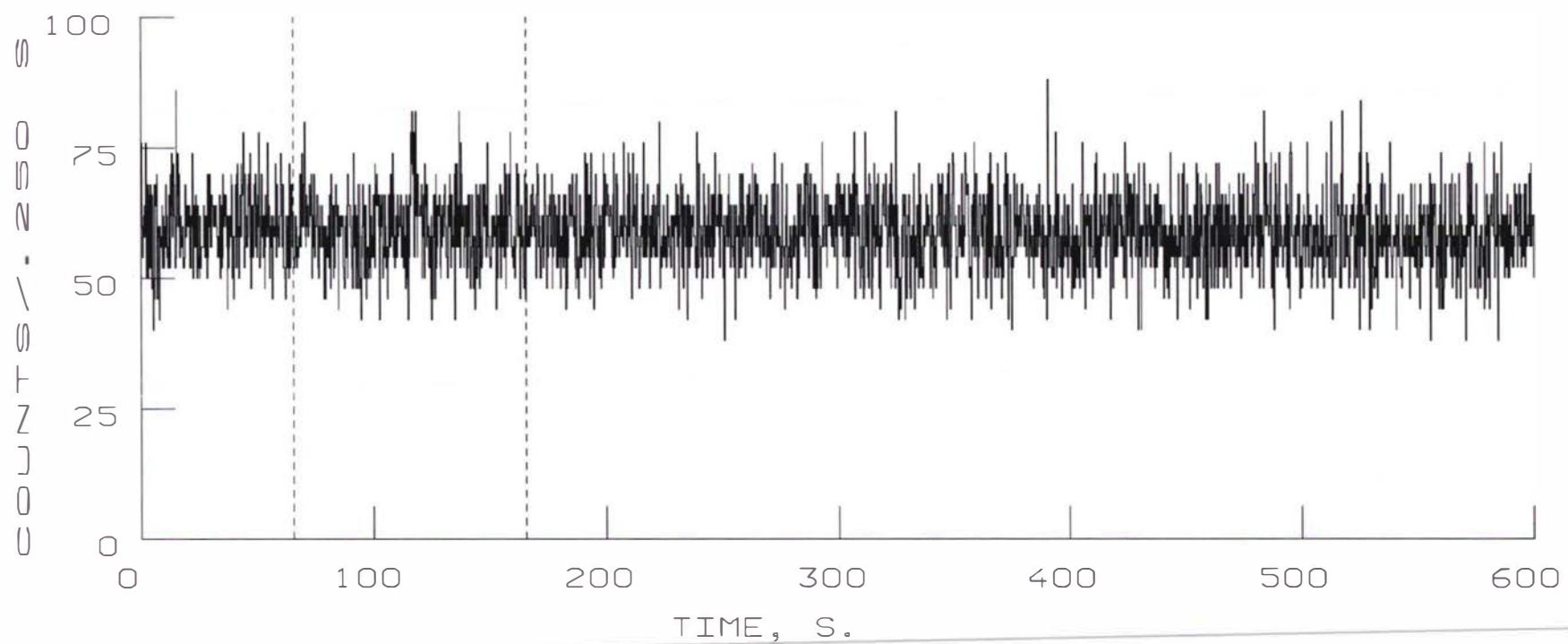
MS01 HEND

26/07/2016

23/09/2011 72857.086 s

50-3000 keV

N= 10 M=20
>4.0 SIGMA FLUCTUATIONS



C

GLAST

23/09/11

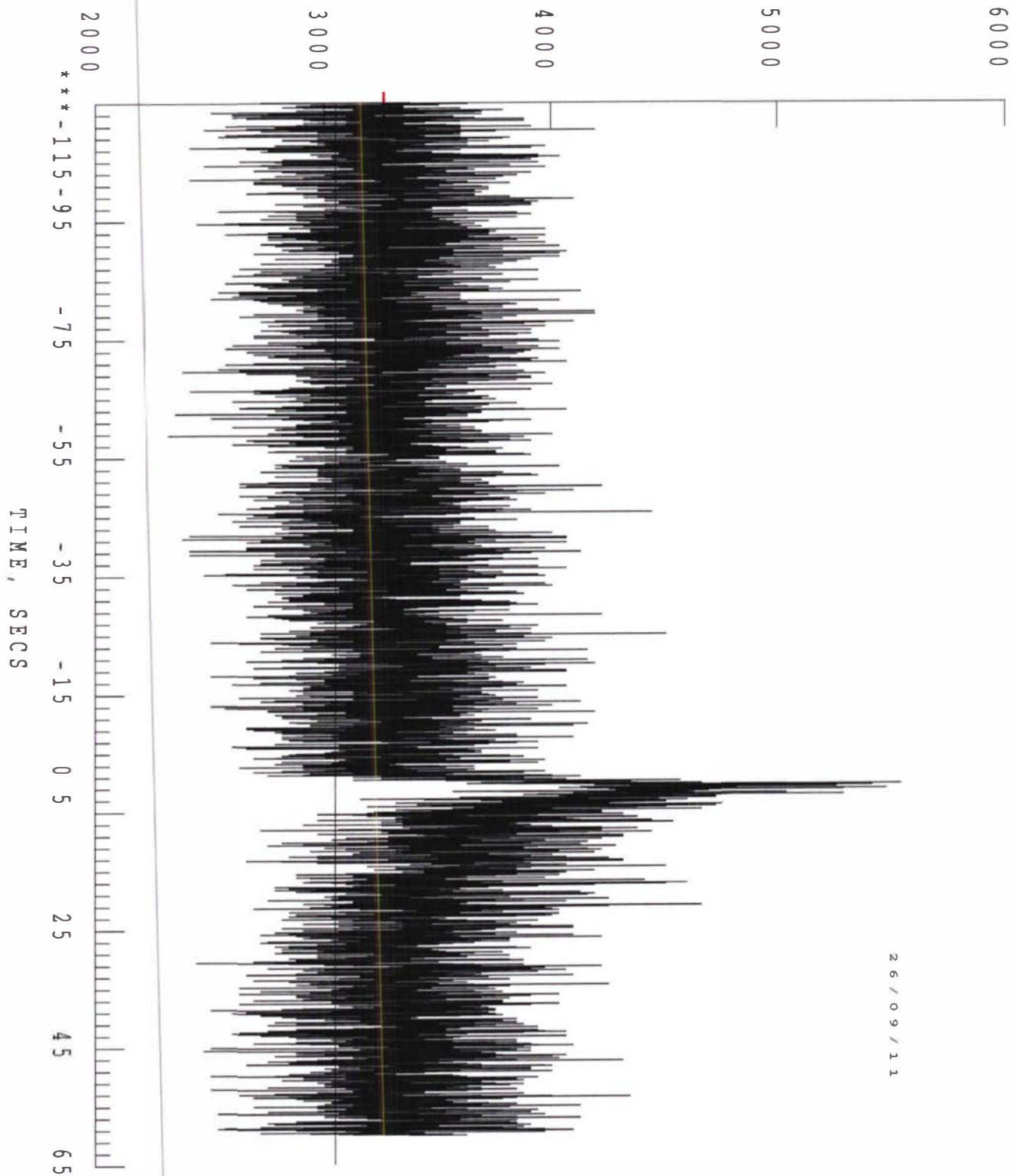
72118.134

20:01:58

26 - 293 keV

323.4 -9.11 3.69

COUNTS/0.032 S



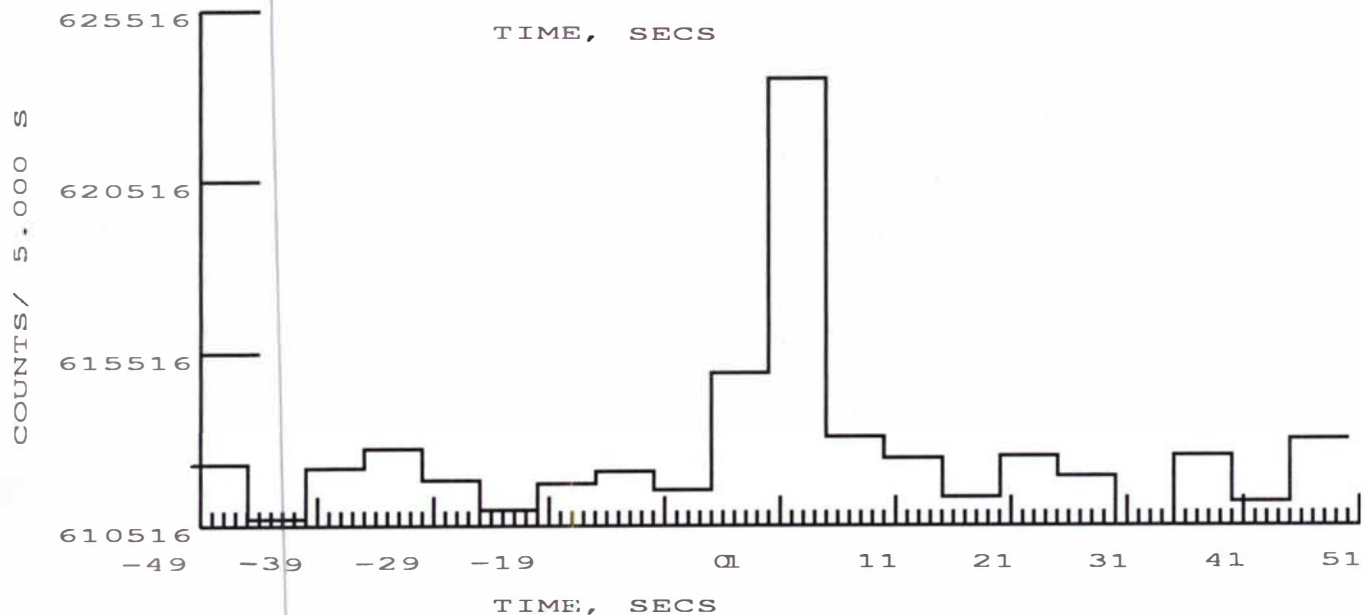
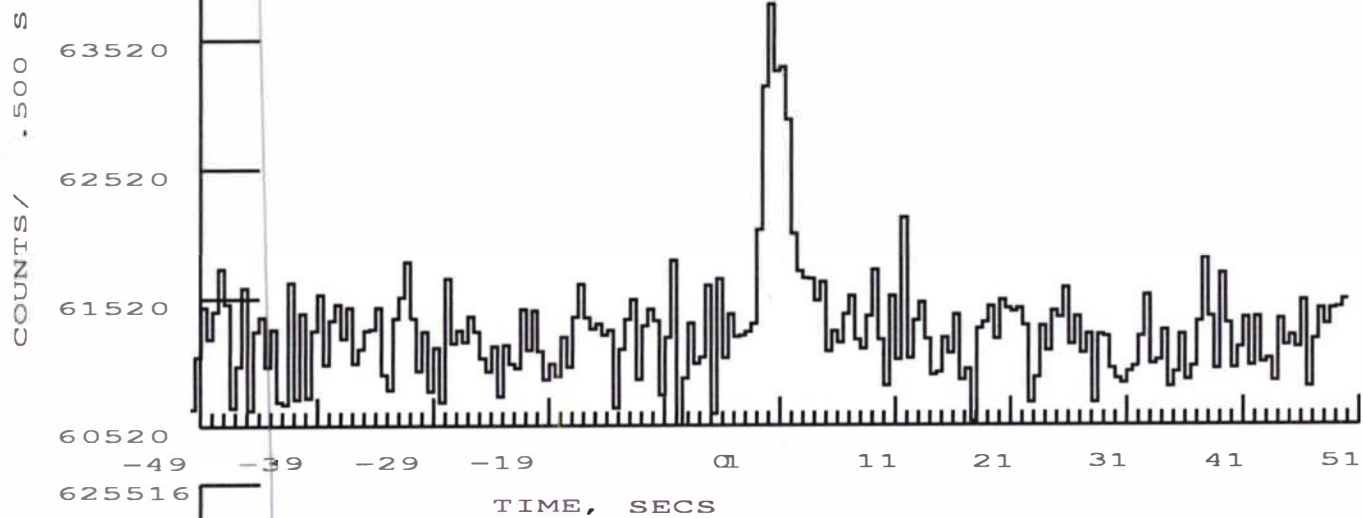
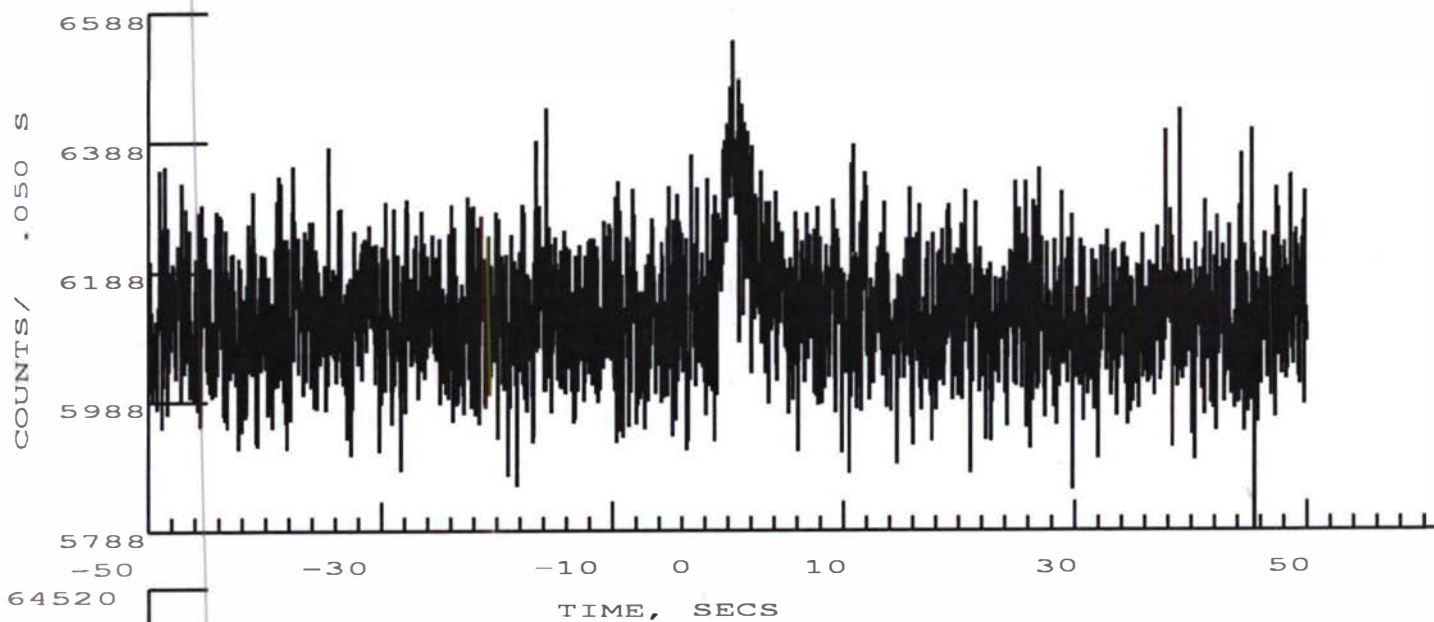
INTEGRAL

23/09/11

72118.000

20:01:58.0

20/01/14



C

From williams@gammaburst.ssl.berkeley.edu Wed Sep 28 23:03:56 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Wed, 28 Sep 2011 23:03:23 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI_data_for GLAST 20110923_72118
X-Ucb-Scan-Signature: 8c482ef9370f82f05e21d3d5efd50e533d5bea7a
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 28-Sep-2011 23:05:07.00
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: [lpn] BAT lightcurve for trigger at 110923_2001

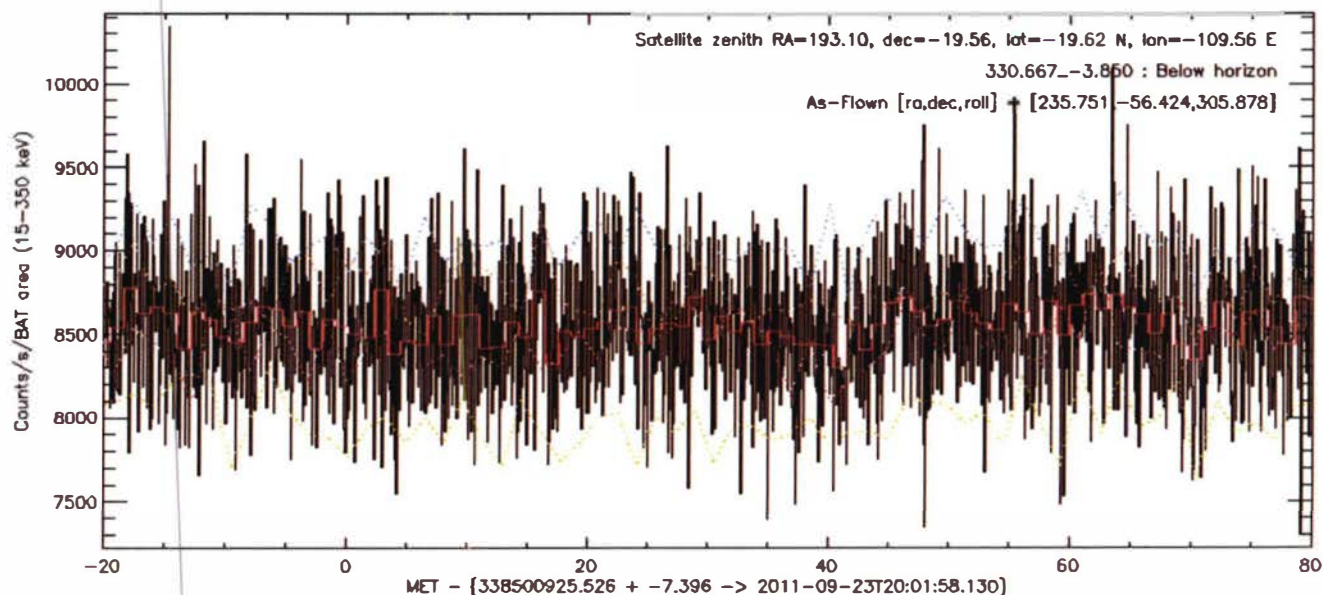
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 23 Sep 2011 20:42:33 -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/110923_2001.png



```
% /usr/local/bin/swinfo -o 338500925.526 -s 323.360 -14.500
Time(MET + UTCF -> UT): 338500925.526 + -7.396 -> 2011-09-23T20:01:58.130
Swift Zenith(RA,dec): 193.10, -19.56
Swift Location(lon,lat,alt): -109.56 E, -19.62 N, 578 km
Obs Sequence Number: 00031986062
Obs Target Name: MAXI J1543-564
Obs Date and Times: 2011-09-23 19:47:54 - 20:06:49
Obs Pointing(ra,dec,roll): 235.751, -56.424, 305.88
323.360_-14.500_imageloc (boresight_dist, angle): (77, 60)
323.360_-14.500_exposure (cm^2 cos adjusted): 0
323.360_-14.500_altitude: -7 (down)
```

```
% /usr/local/bin/swinfo -o 338500925.526 -s 330.667 -3.850
Time(MET + UTCF -> UT): 338500925.526 + -7.396 -> 2011-09-23T20:01:58.130
Swift Zenith(RA,dec): 193.10, -19.56
Swift Location(lon,lat,alt): -109.56 E, -19.62 N, 578 km
Obs Sequence Number: 00031986062
Obs Target Name: MAXI J1543-564
Obs Date and Times: 2011-09-23 19:47:54 - 20:06:49
Obs Pointing(ra,dec,roll): 235.751, -56.424, 305.88
330.667_-3.850_imageloc (boresight_dist, angle): (90, 60)
330.667_-3.850_exposure (cm^2 cos adjusted): 0
330.667_-3.850_altitude: -19 (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/110923_2001_bat64ms_ipn Content-Type: application/octet-stream

Content-Encoding: base64

/tmp/110923_2001.png

/tmp/110923_2001.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: Sep 21 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)?
- ☒ 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

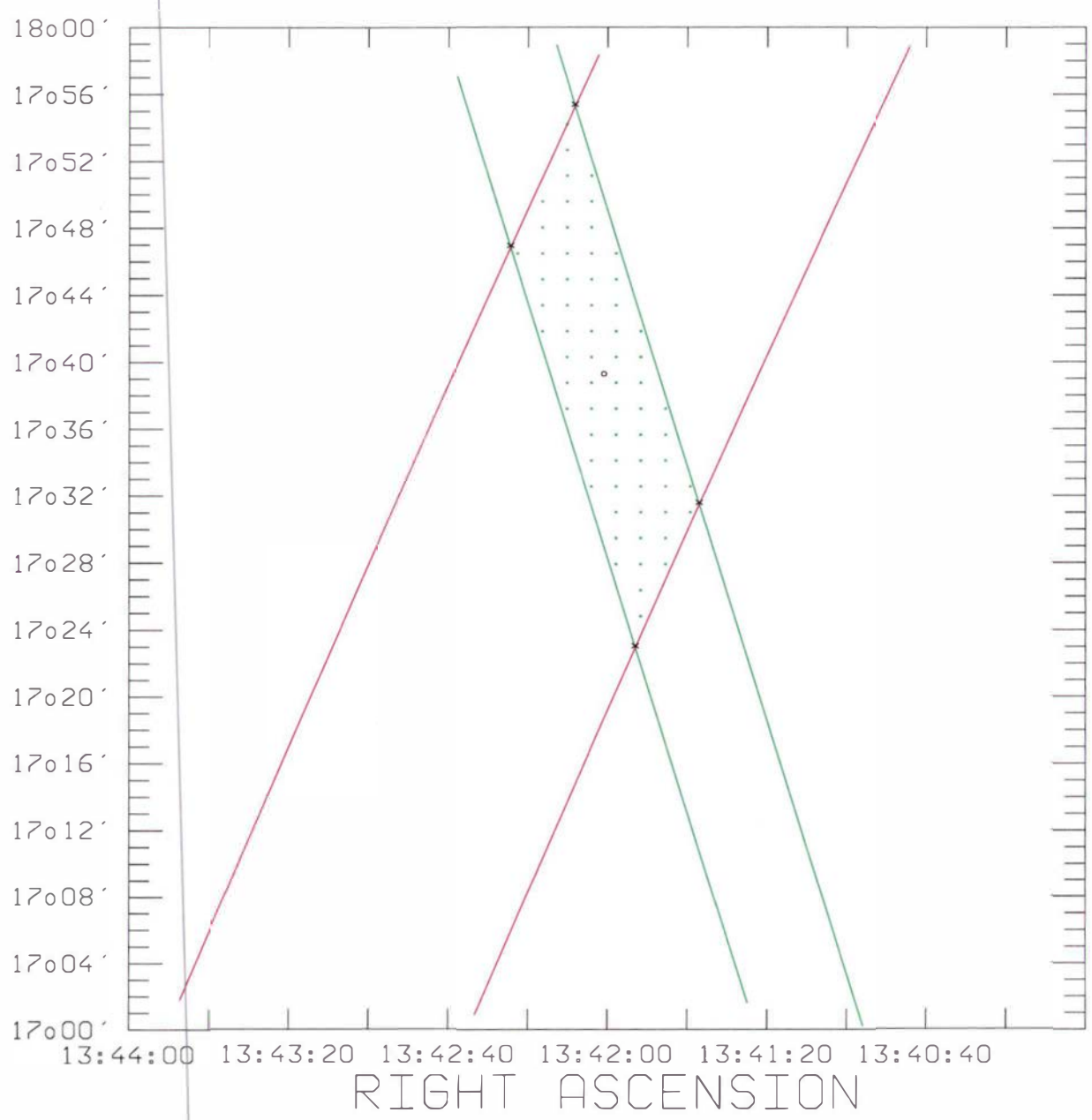
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

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

GRB110923 ~83280 S

21/09/201

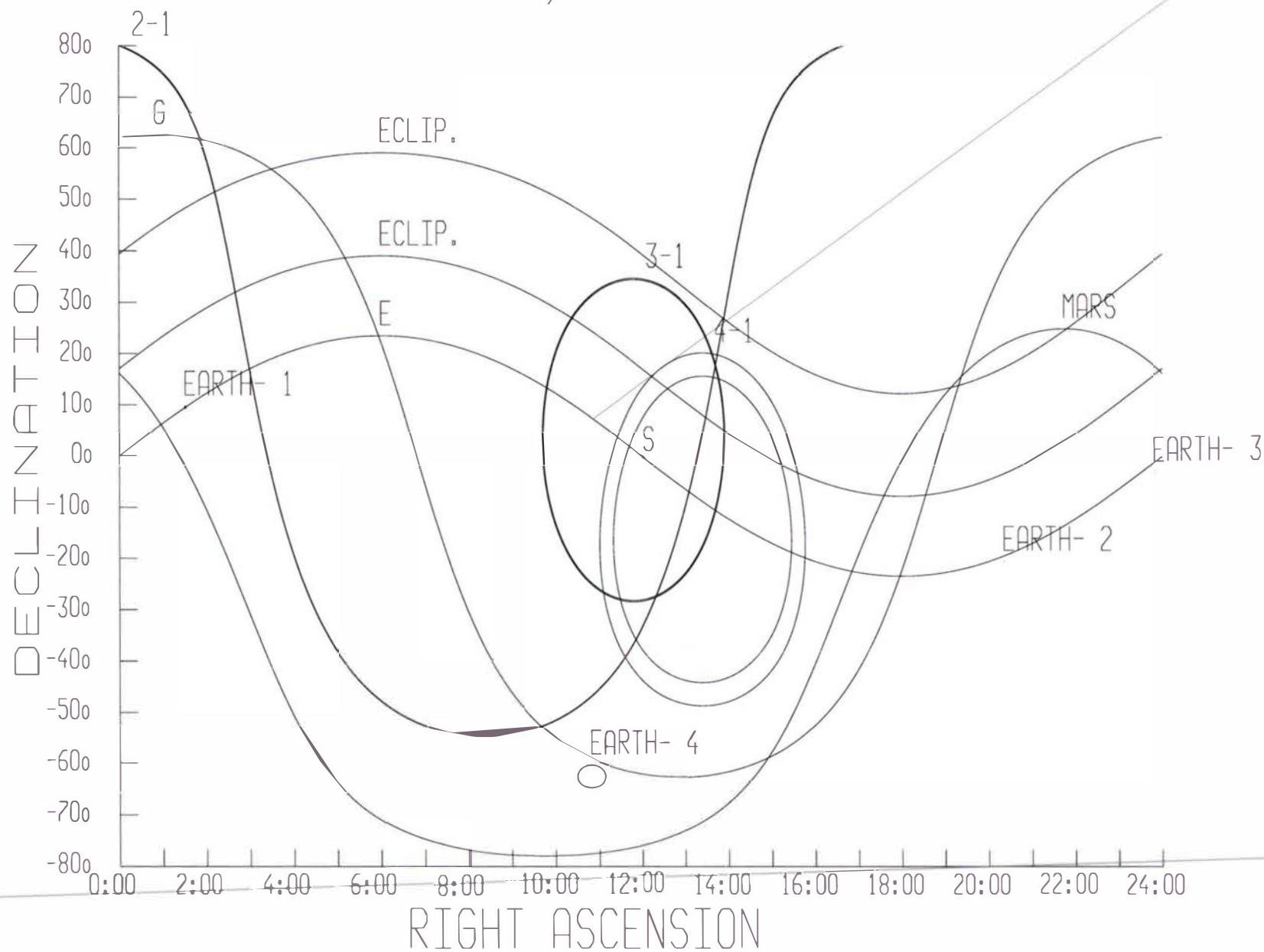
DECLINATION

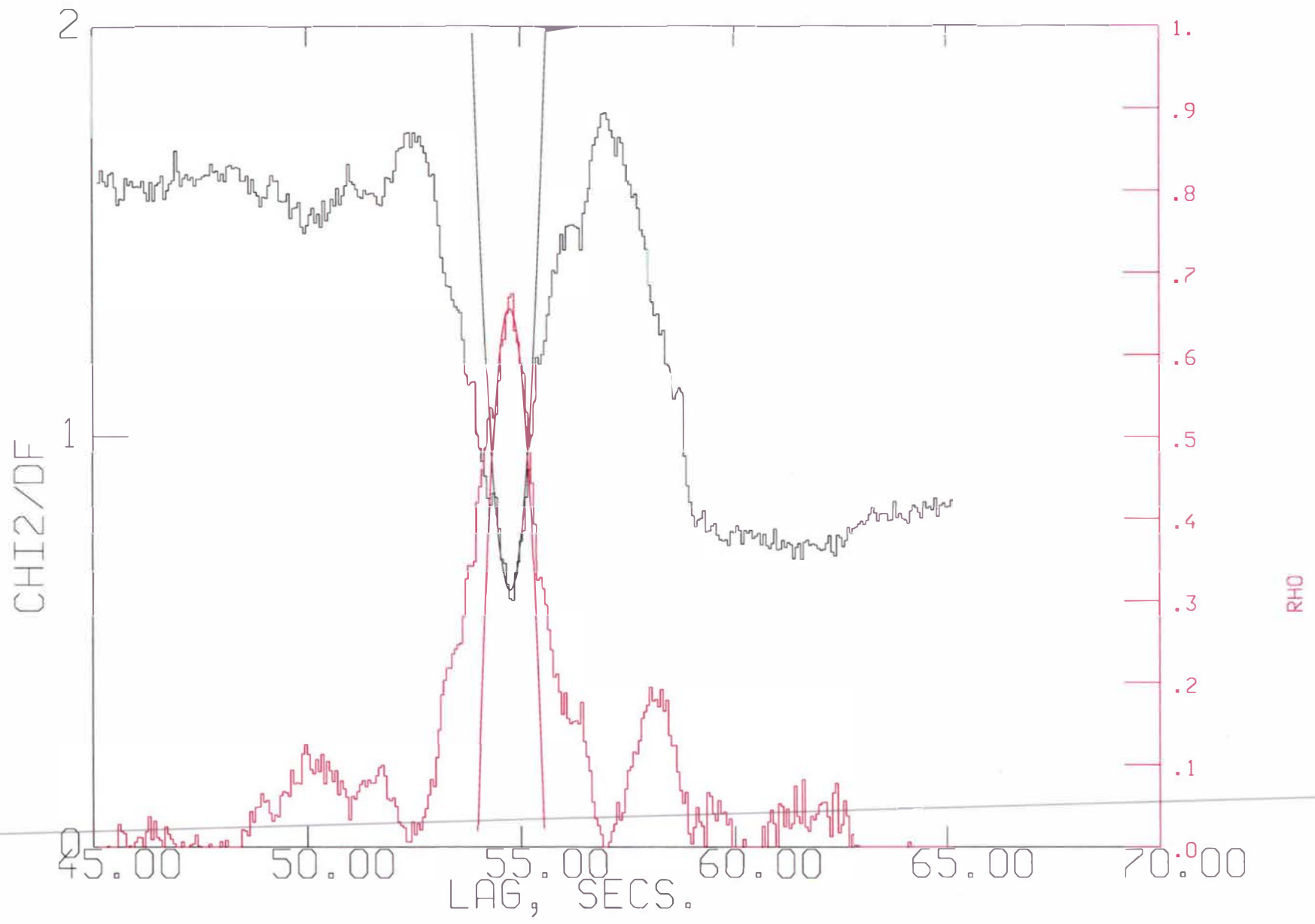


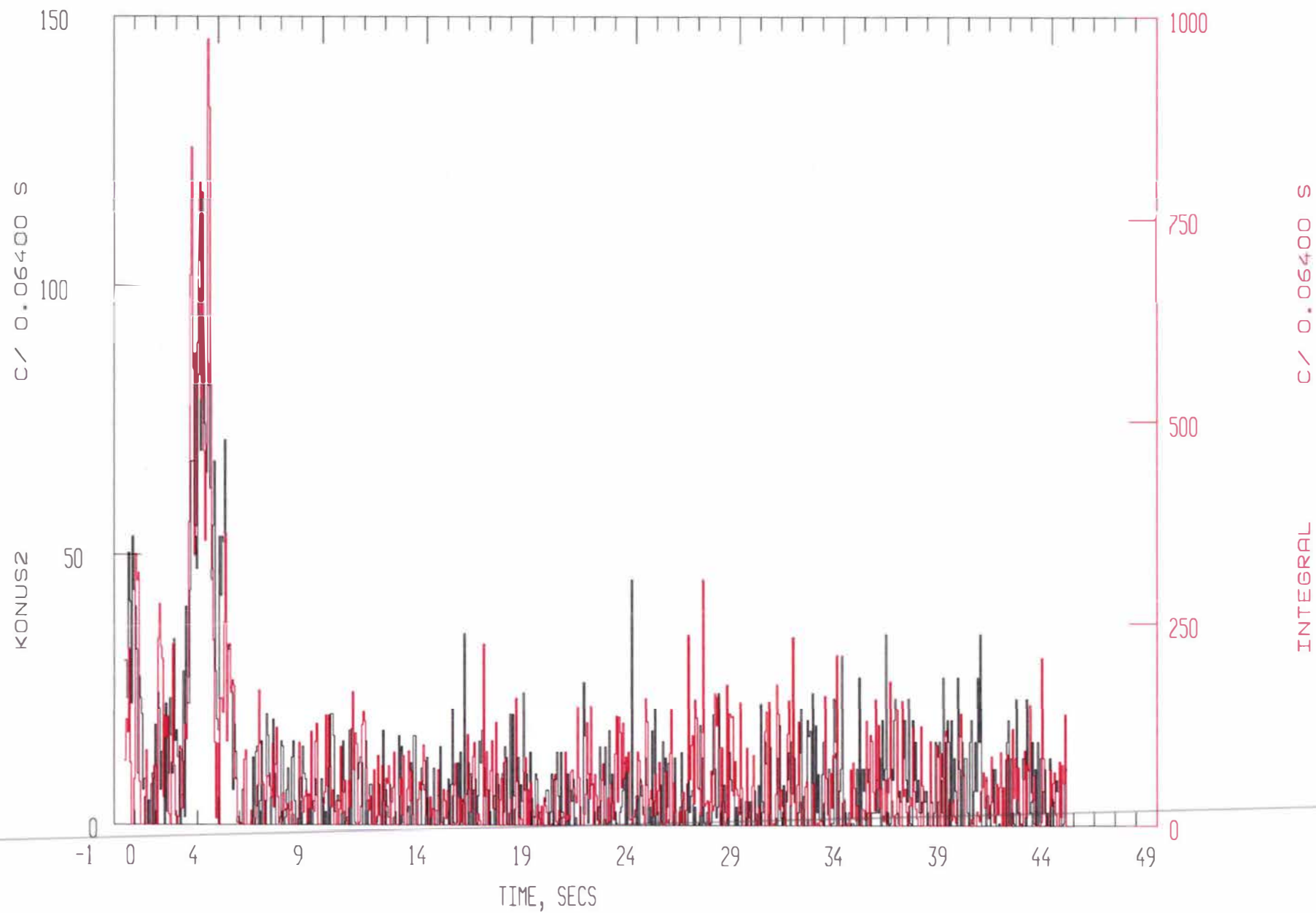
EVENT OF SEP 23, 2011 23:07

21/09/2016

NIM = 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 4 INTEGRAL

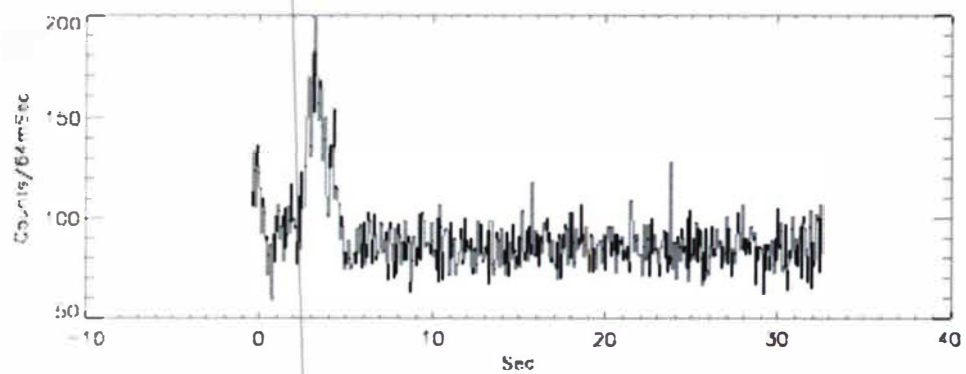






GCN/KONUS
GRB20110923 23:07:55.666 UT

50-200keV



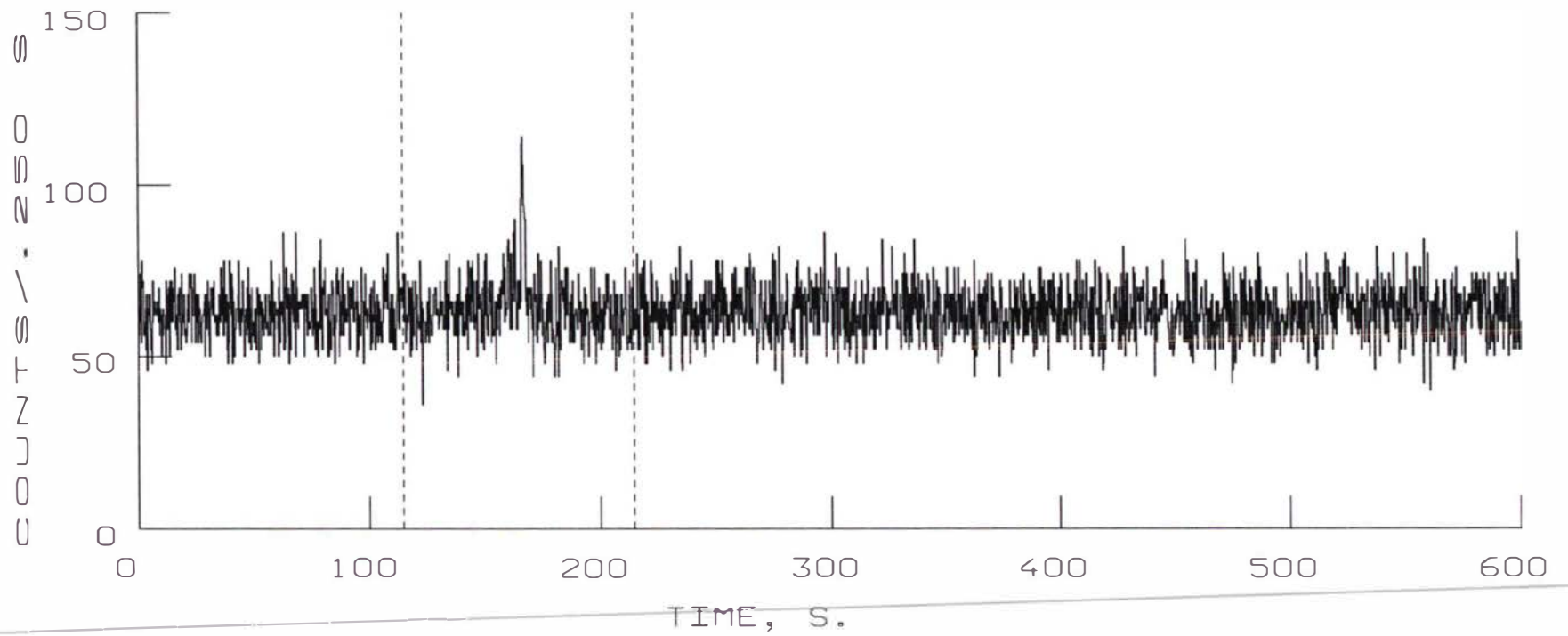
MS01 HEND

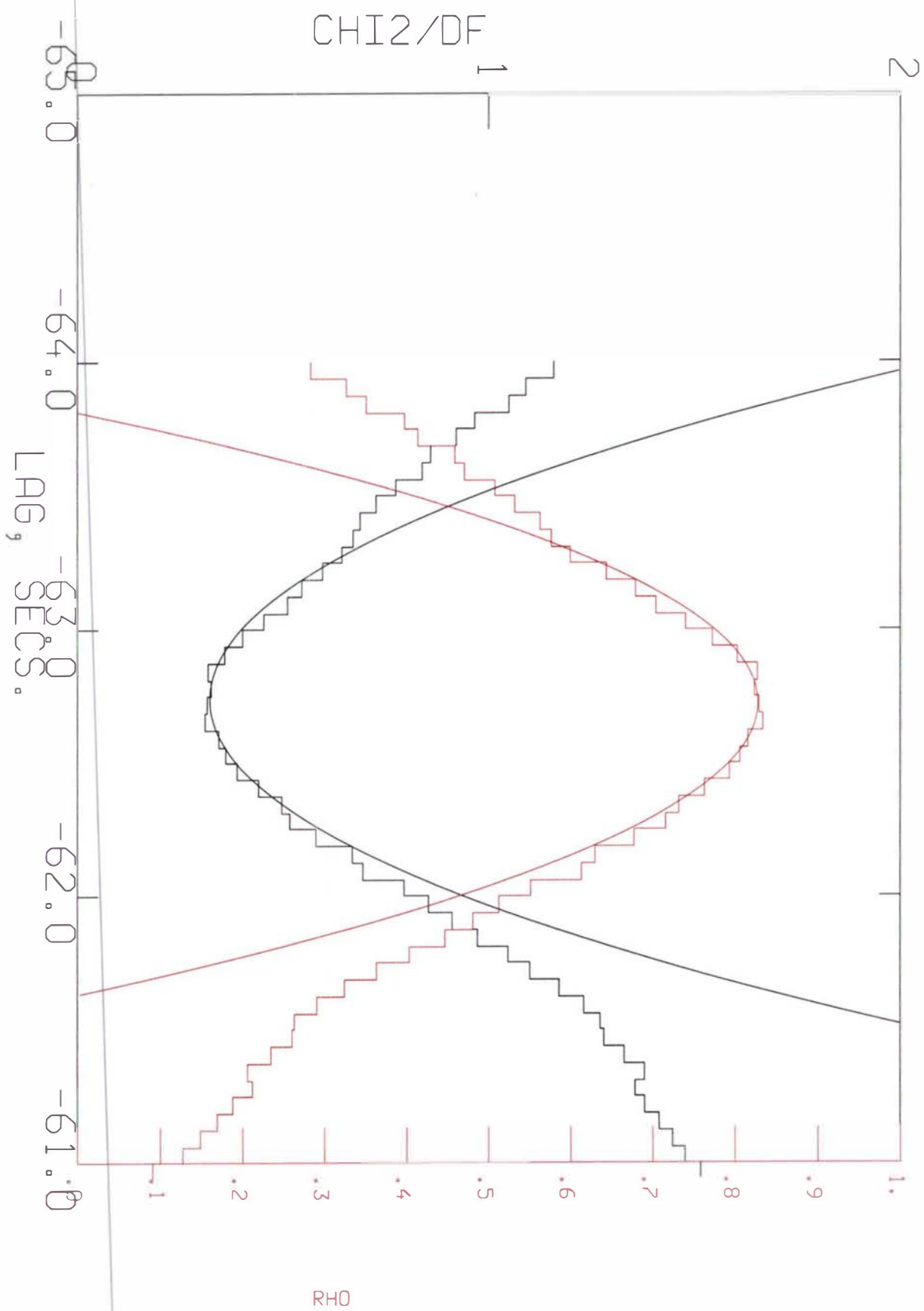
24/07/2015

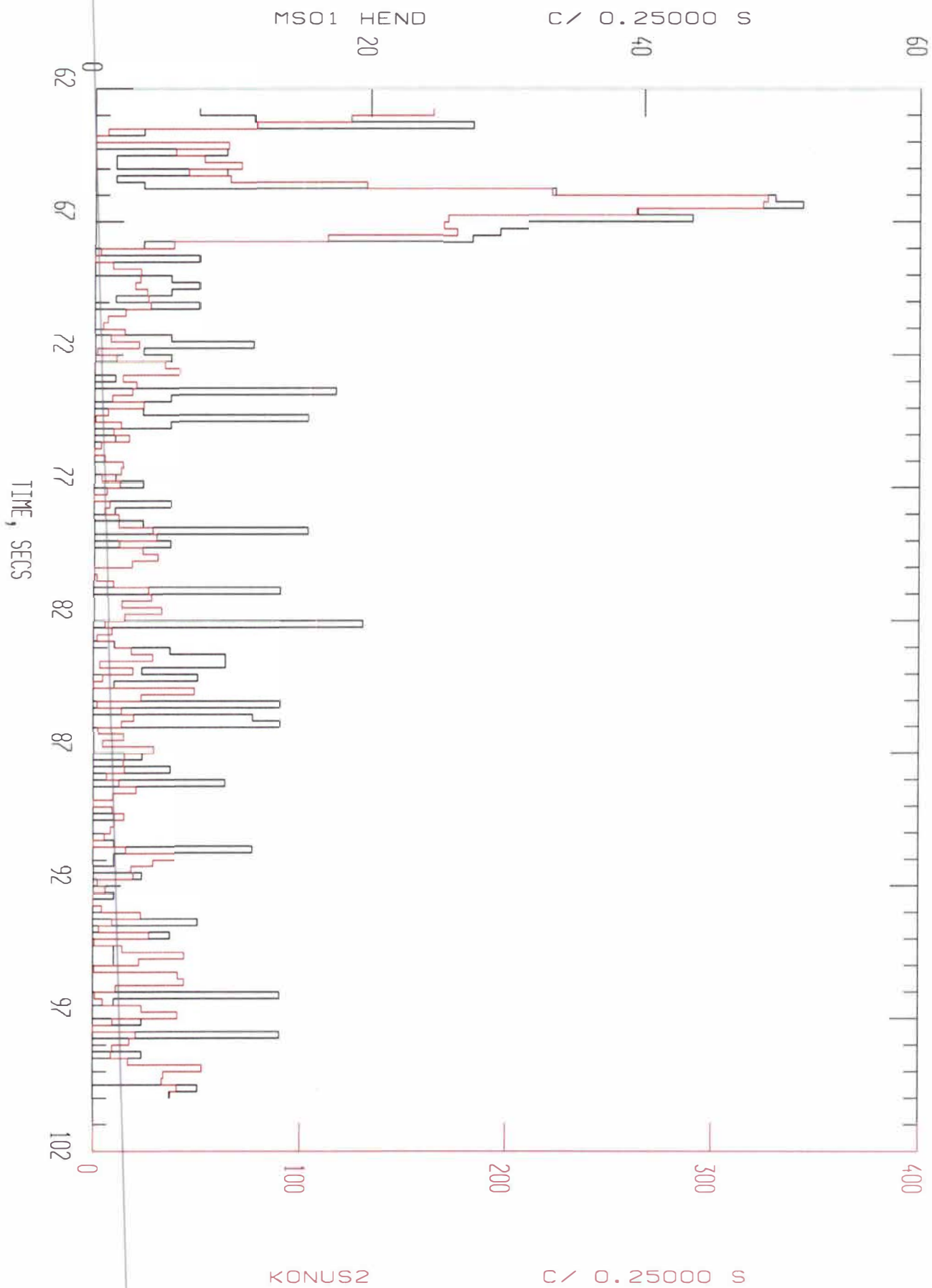
23/09/2011 82876.922 s

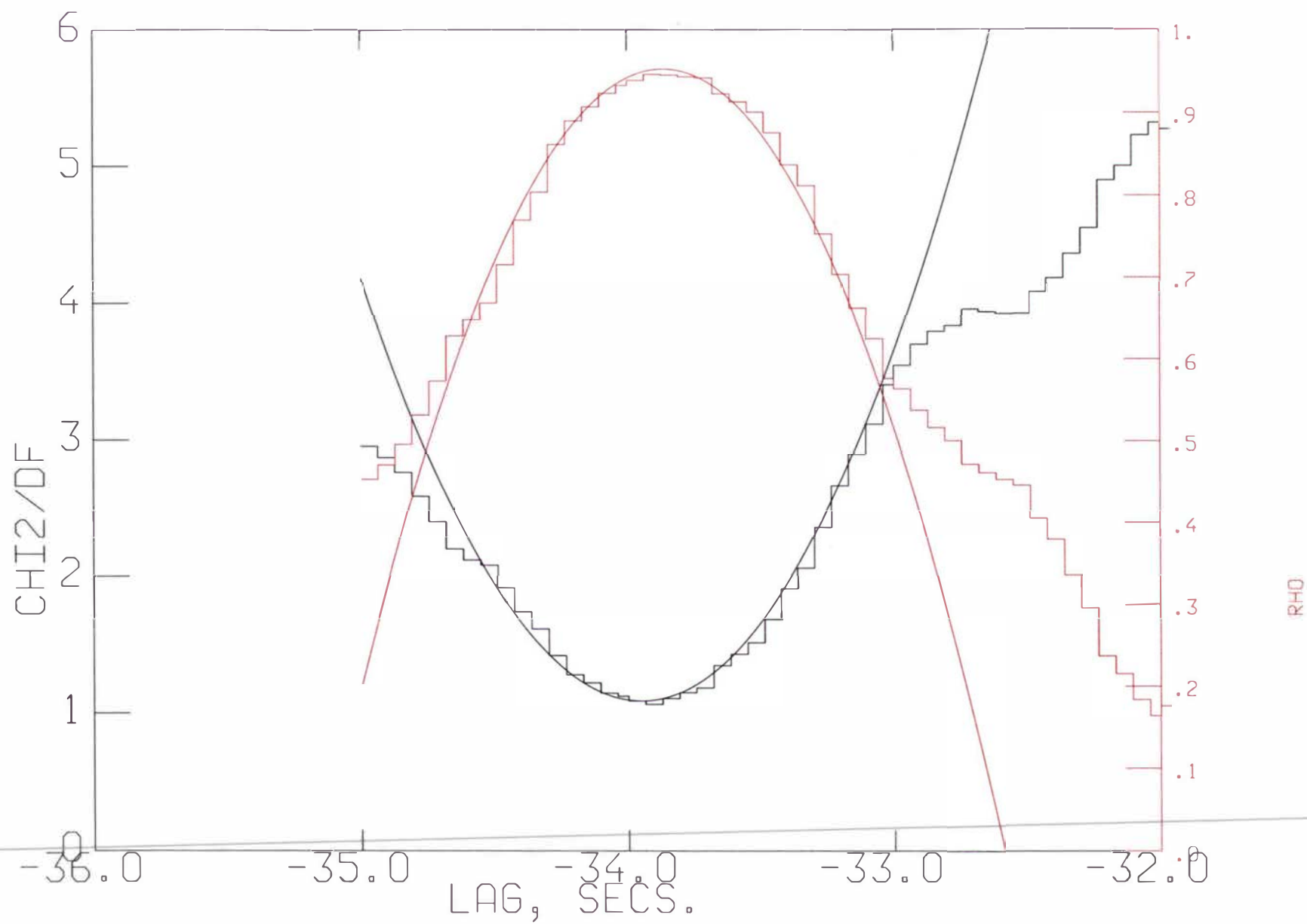
50-3000 keV

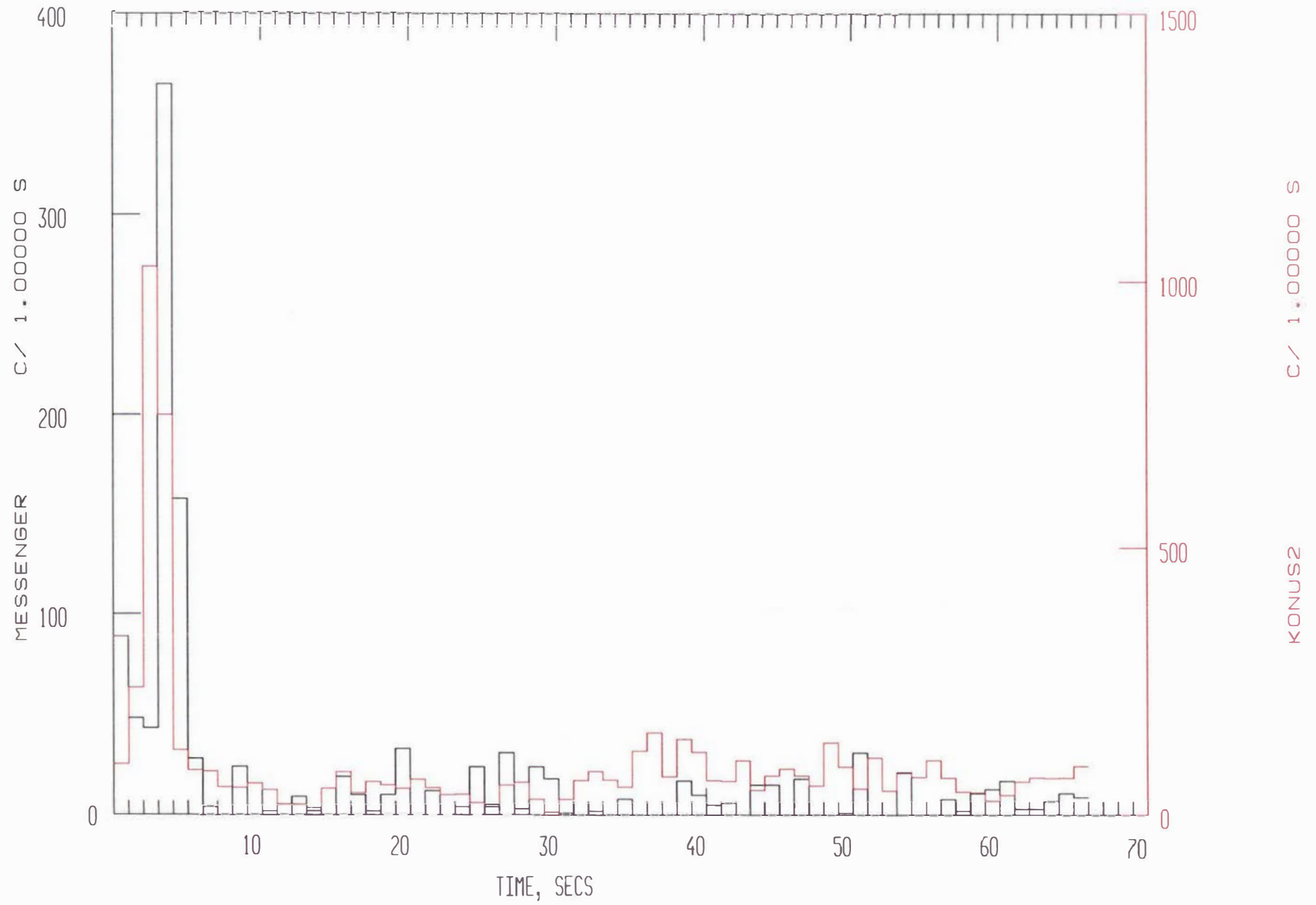
N= 10 M=12
24.0 SIGMA FLUCTUATIONS











D

From williams@gammaburst.ssl.berkeley.edu Tue Dec 6 15:02:21 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 6 Dec 2011 14:57:09 -0800 (PST)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS_TRIG_20110923_83275
X-Ucb-Scan-Signature: 06091872c8504b1f7f5948f81c376a3fe675bdb2
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -1.201'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 6-Dec-2011 15:01:04.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.100000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry



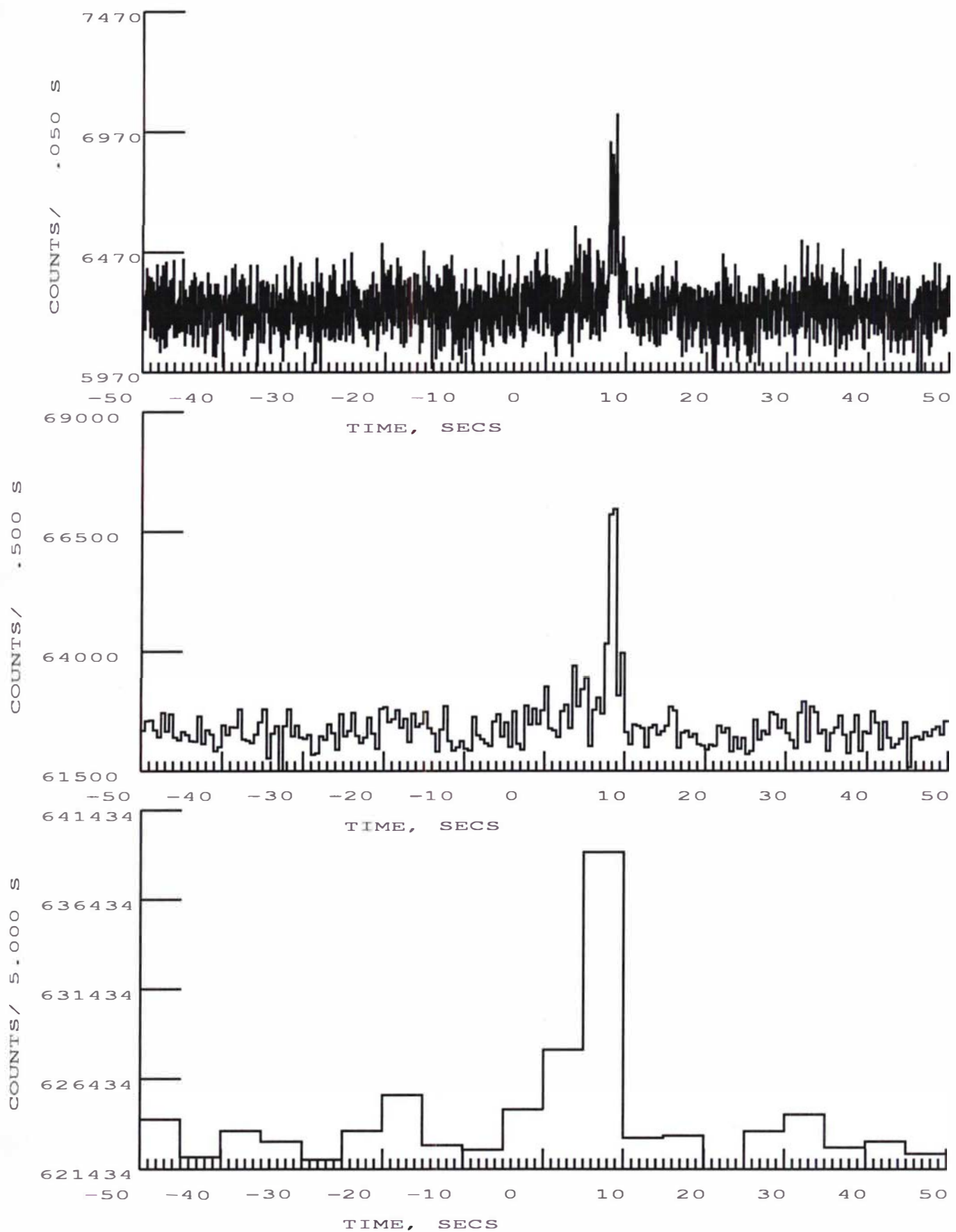
INTEGRAL

23/09/11

83275.000

23:07:55.0

20/01/14



D

07/12/11

MESSENGER

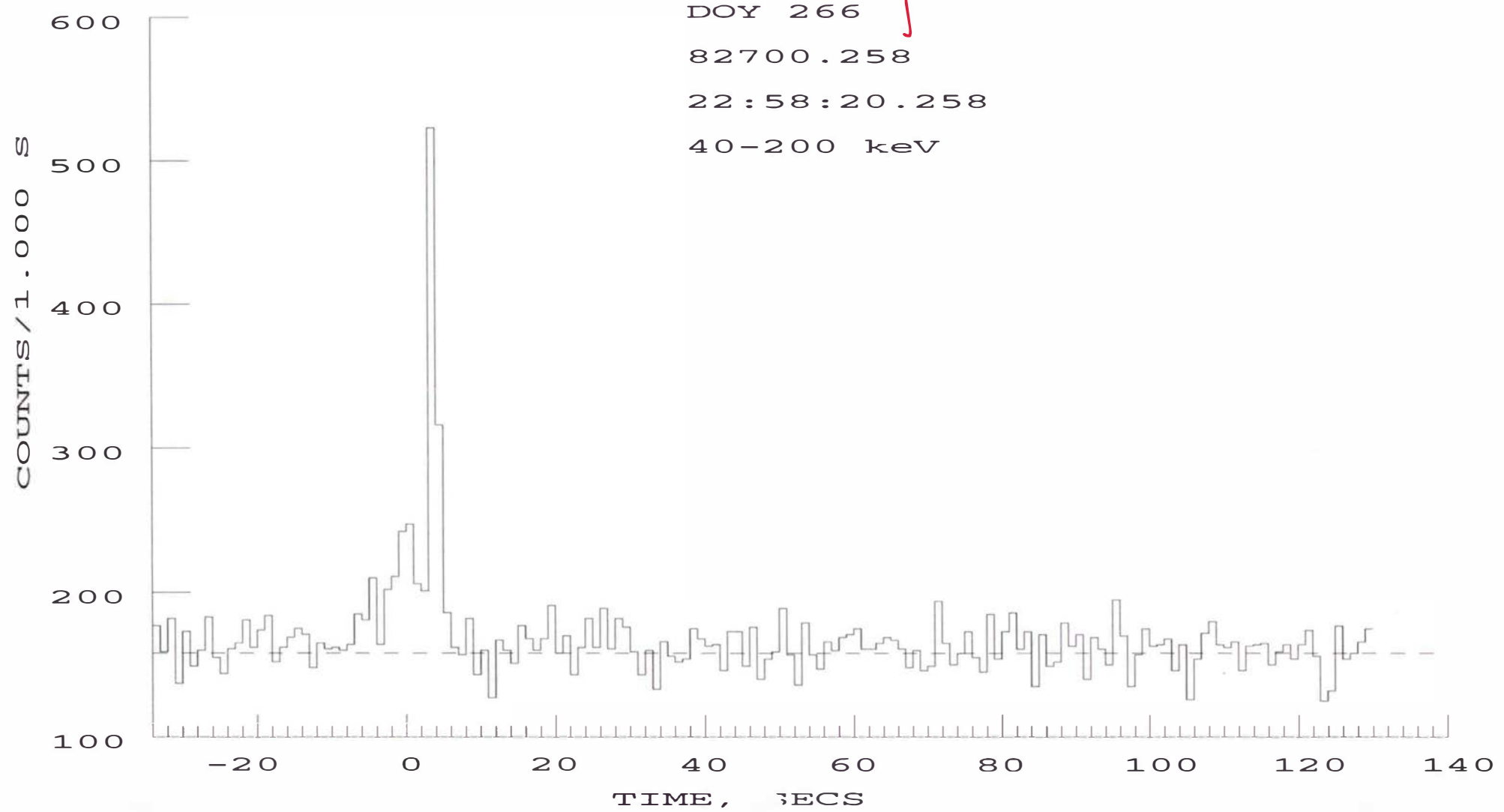
23/09/11 2

DOY 266 J

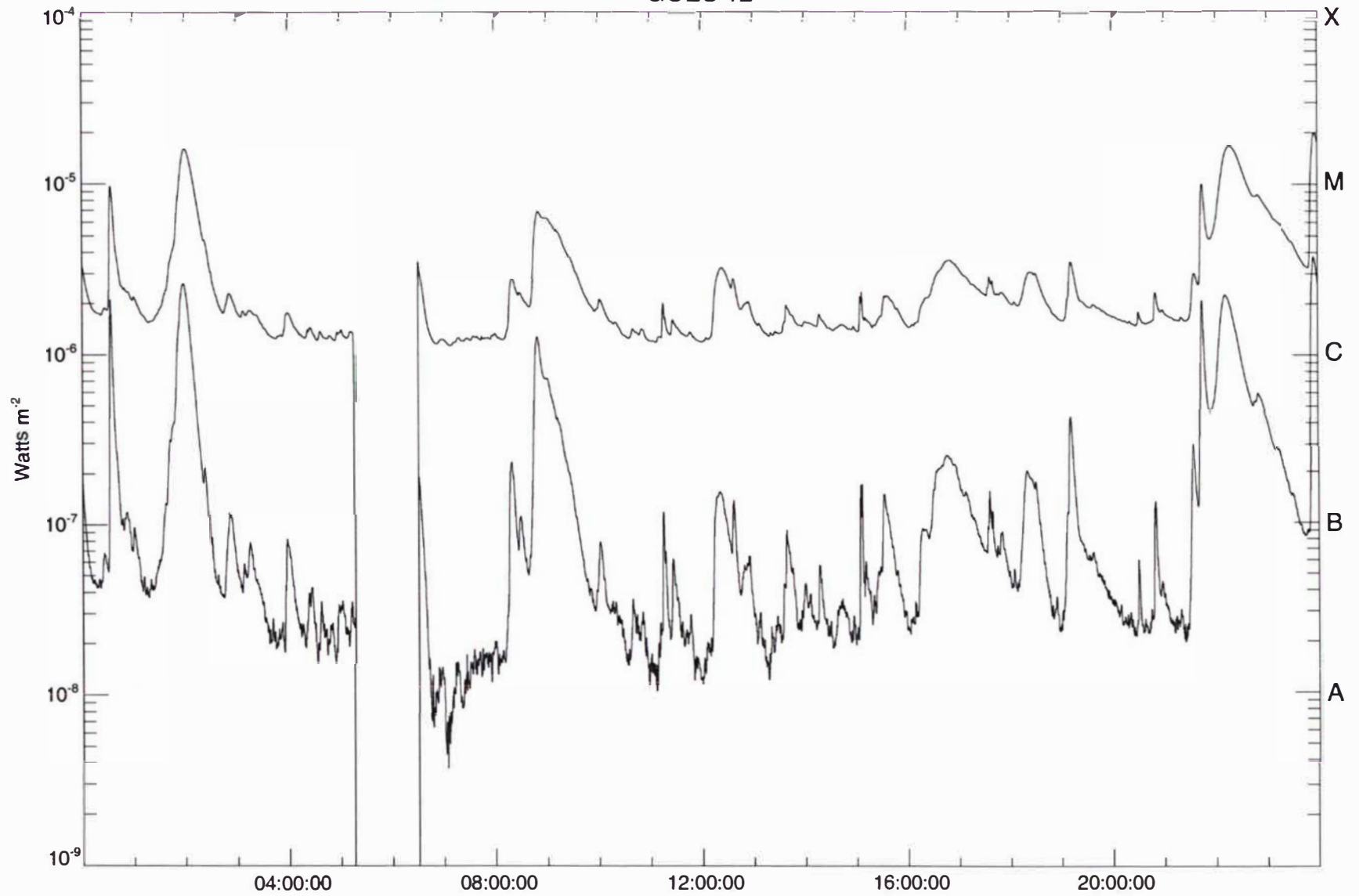
82700.258

22:58:20.258

40-200 keV



GOES 12



Data Start: 11/09/23, 0000:09

Plot created: 11/09/26, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

24/09/11

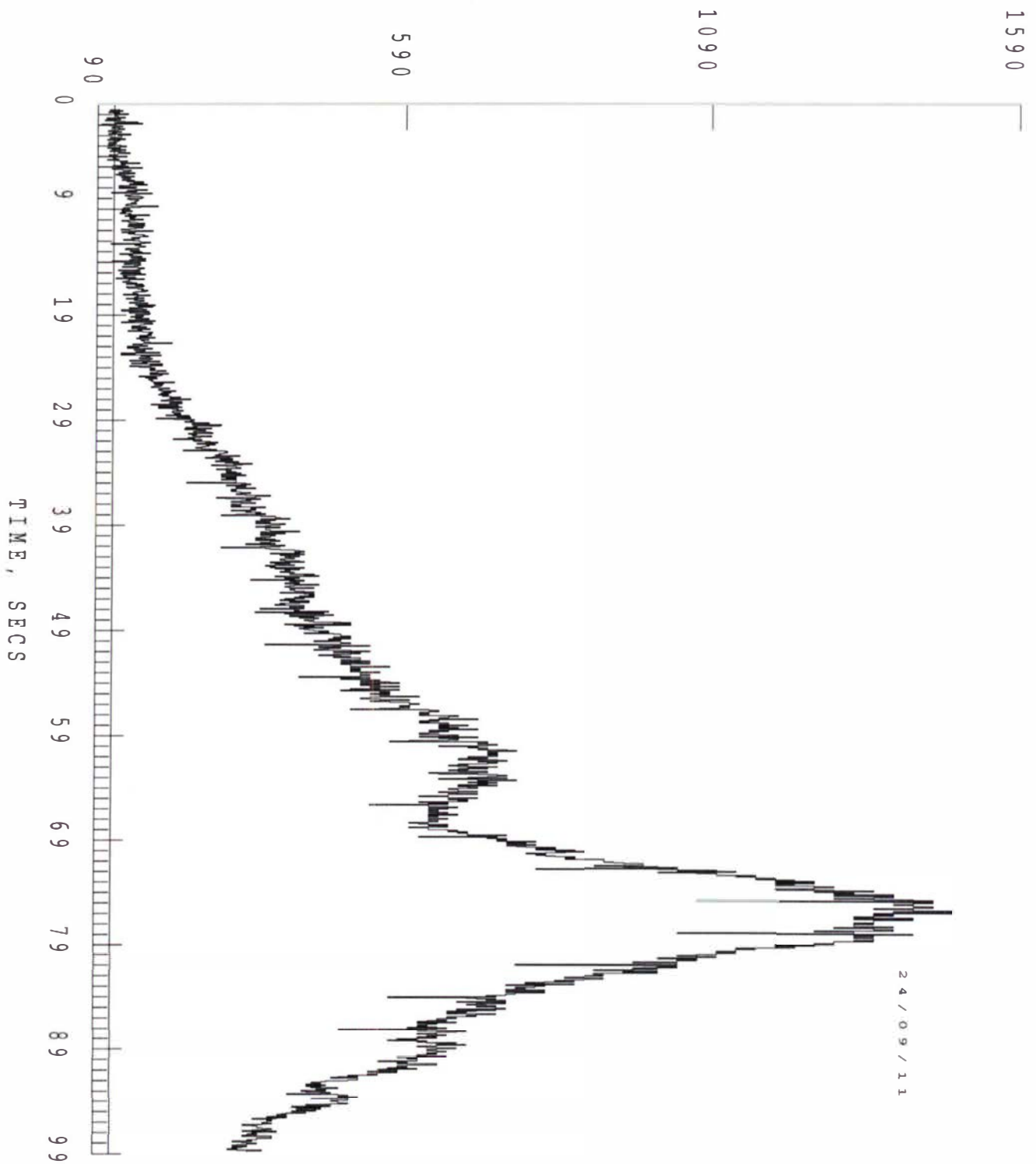
34503.350

09:35:03

50 - 200 keV

Solar

COUNTS/0.064 S



KONUS HRES 20110924 34503

TRIGGER TIME: 24/09/11 DOY 267 Julian 2455829.89934 UT = 09.584 09:35:03 (34503.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

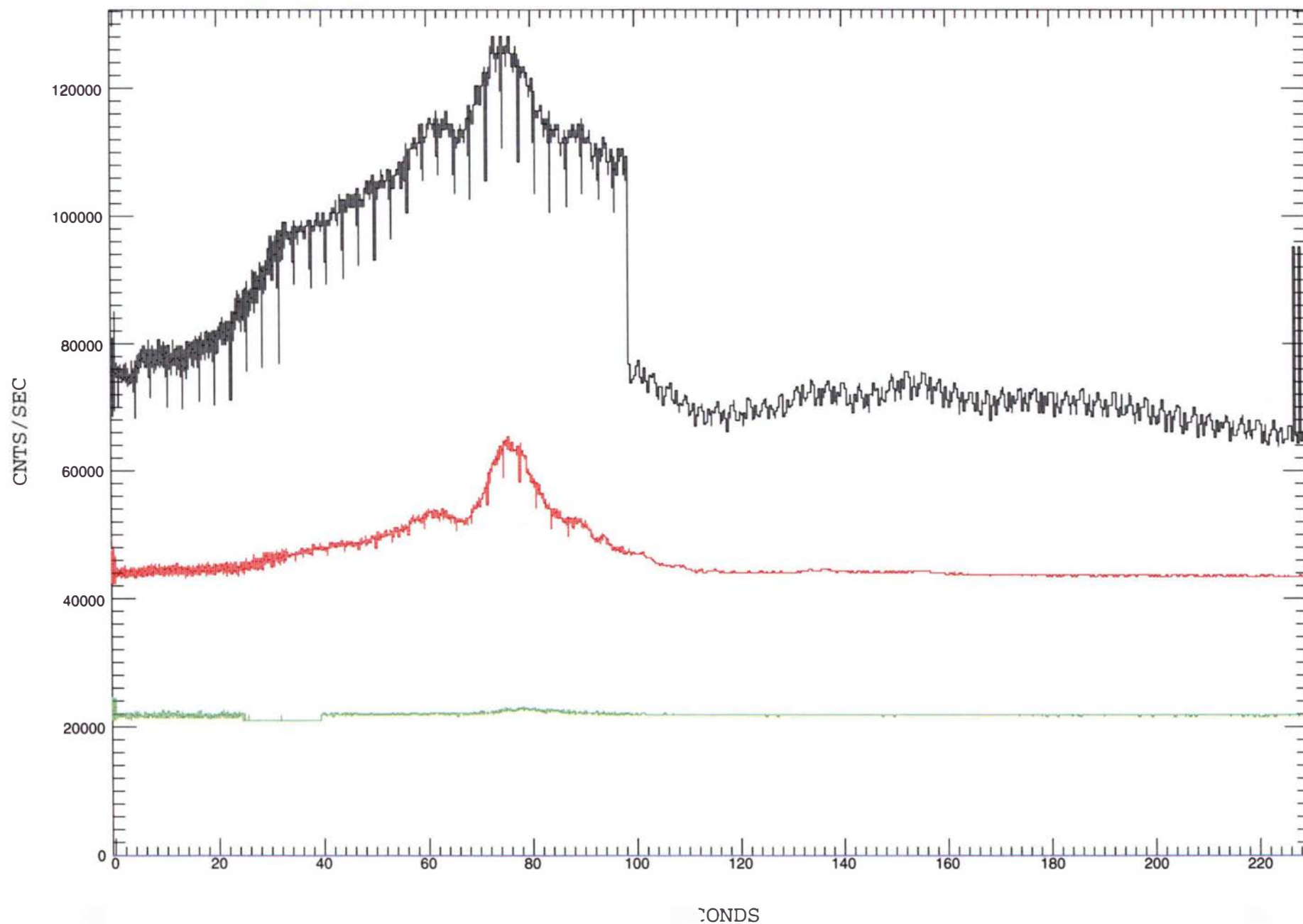
Chan 4 : [> 10 MeV]

Channel 1 + 63600

Channel 2 + 42400

Channel 3 + 21200

Channel 4 + 0



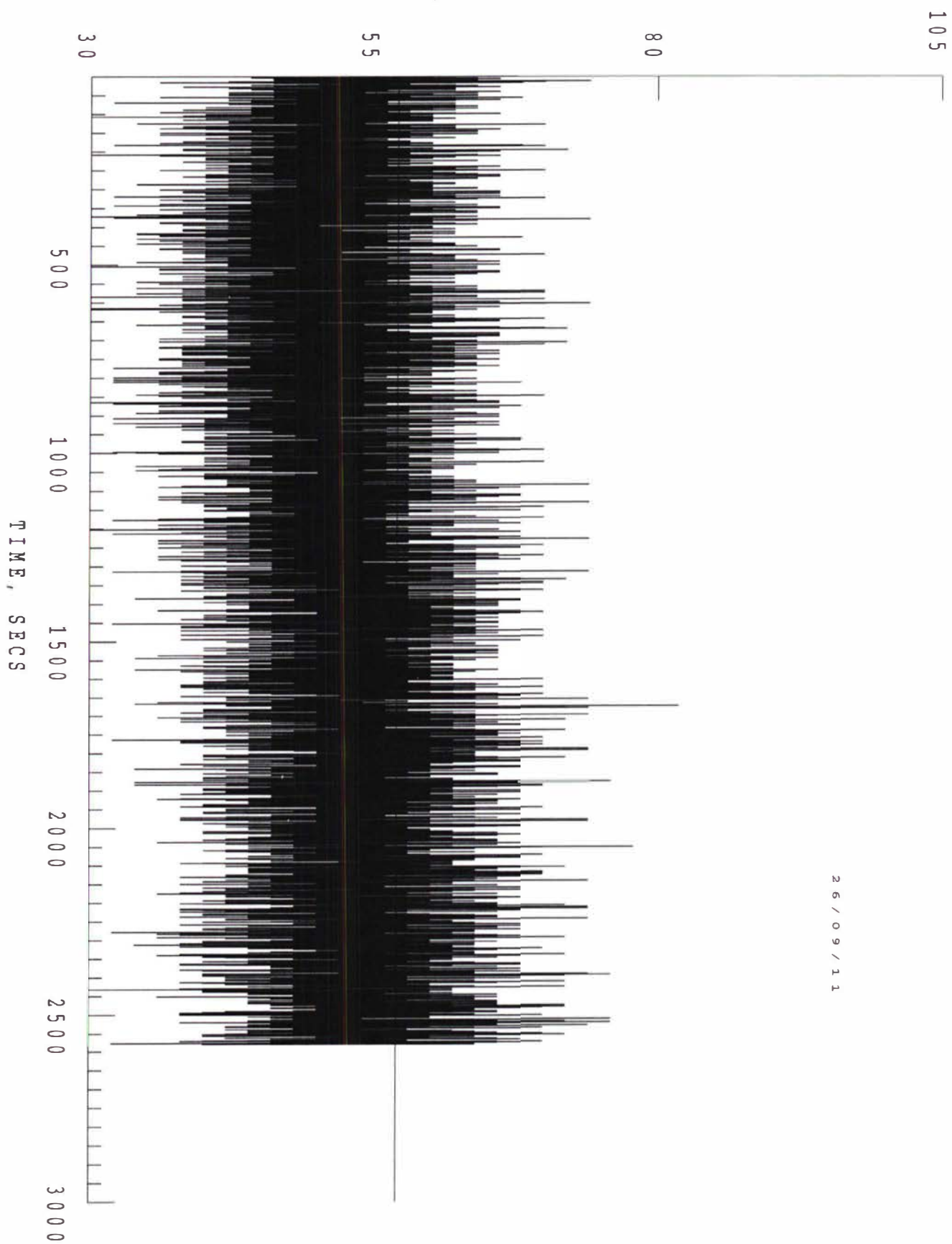
MS01

24/09/11

33196.279

50 - 3000 keV

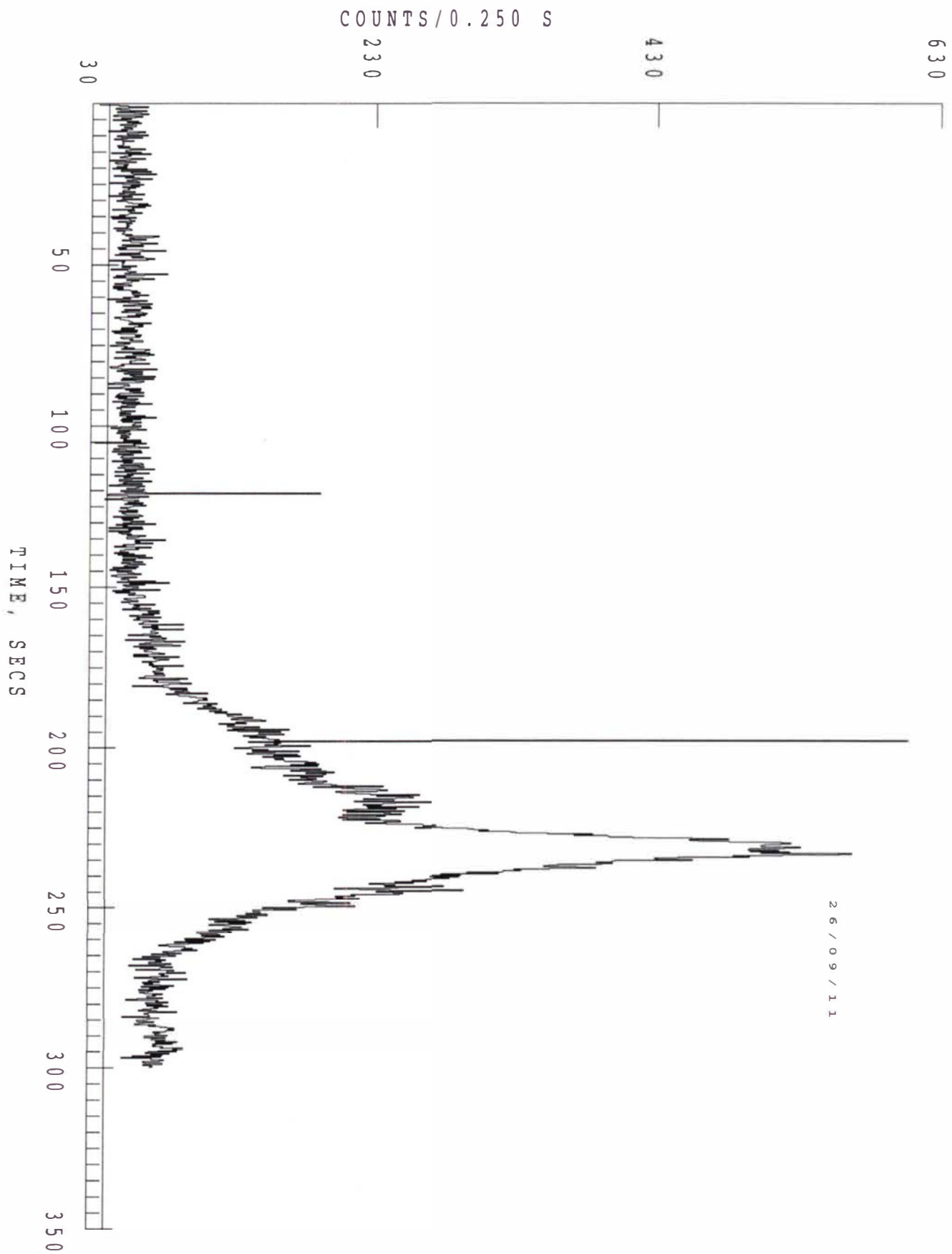
COUNTS/0.250 S



HESSI

24/09/11 34353.000 (KONUS2_20110924_34503)

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 110924_0934

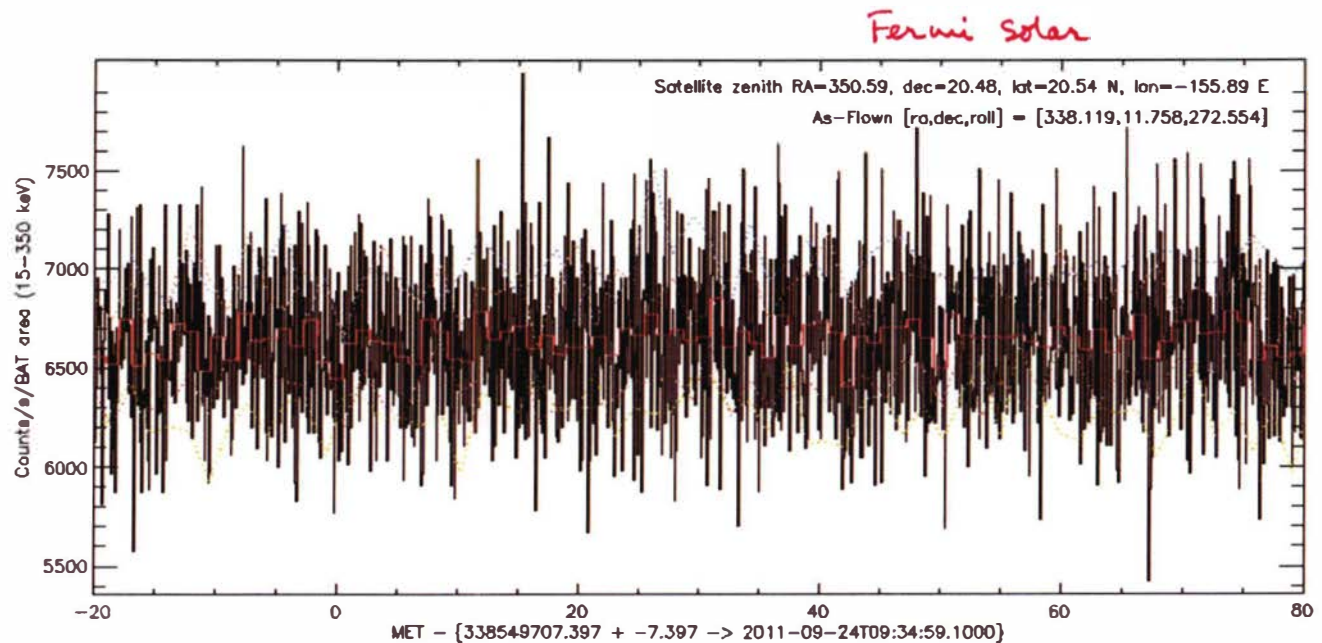
From: palmer+automatic_lightcurve@lanl.gov

Date: Sat, 24 Sep 2011 18:06:54 -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/110924_0934.png



```
% /usr/local/bin/swinfo -o 338549707.397
Time (MET + UTC -> UT):      338549707.397 + -7.397 -> 2011-09-24T09:34:59.1000
Swift Zenith (RA,dec):       350.59, 20.48
Swift Location (lon,lat,alt): -155.89 E, 20.54 N, 591 km
Obs Sequence Number:         00091094008
Obs Target Name:              CTA102
Obs Date and Times:          2011-09-24 09:21:31 - 09:48:51
Obs Pointing (ra,dec,roll):   338.119, 11.758, 272.55
```

--
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/110924_0934.png	Content-Type: image/png Content-Encoding: base64
----------------------	---

/tmp/110924_0934_bat64ms_ipn

/tmp/110924_0934_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

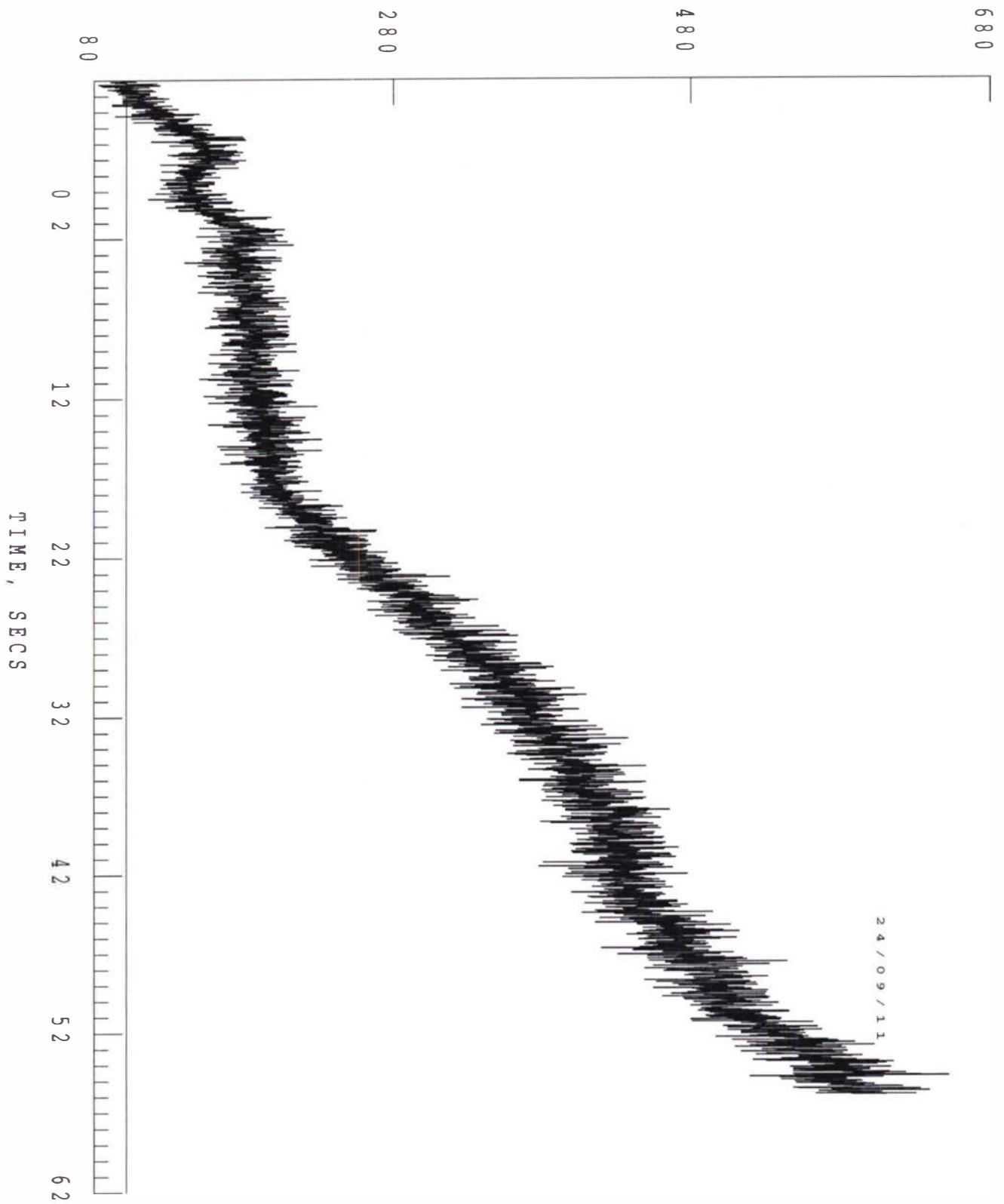
SUZAKU

24/09/11

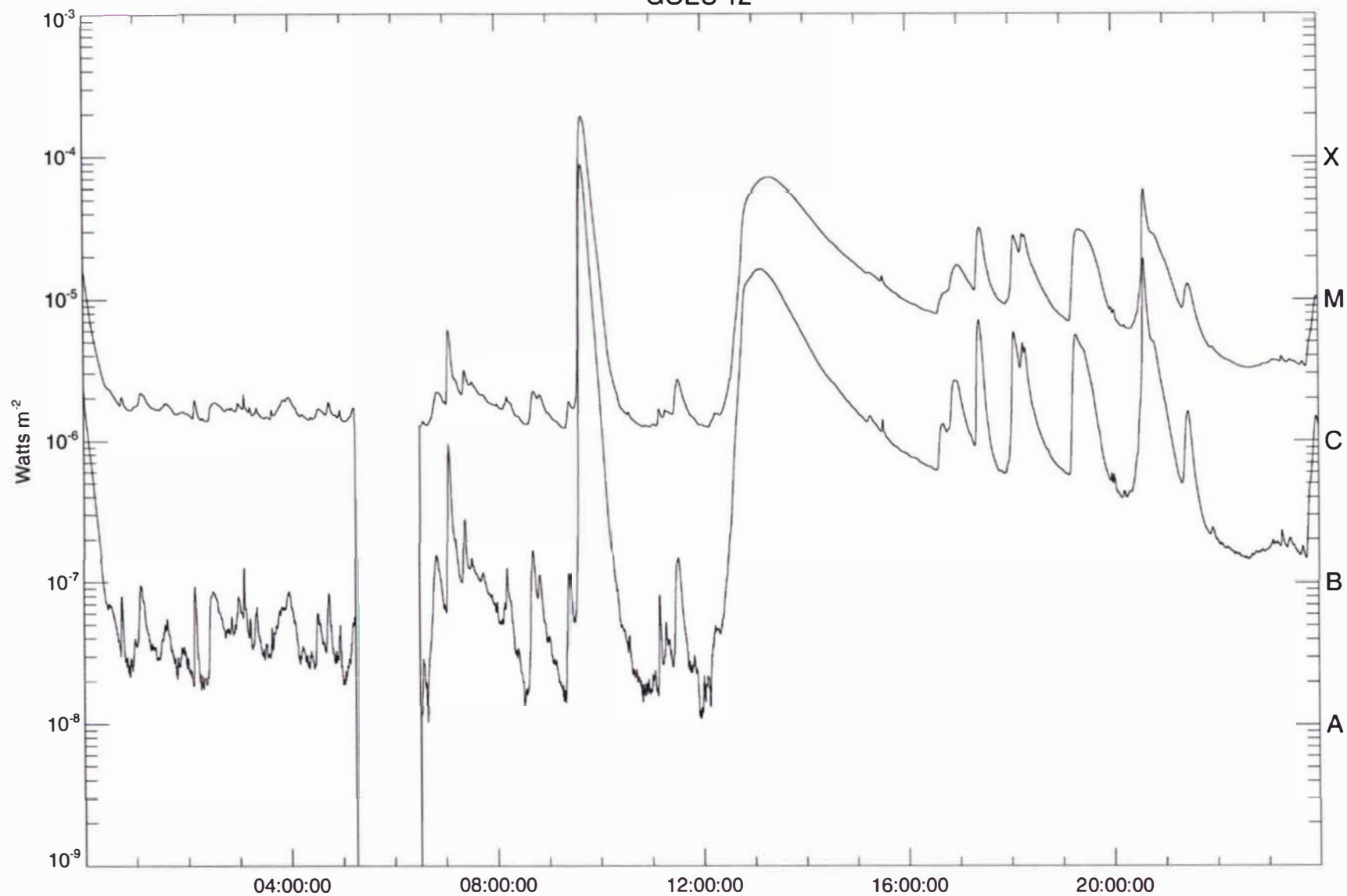
34512.537

50 - 240 keV

COUNTS/0.016 S



GOES 12



Data Start: 11/09/24, 0000:09

Plot created: 11/09/27, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

KONUS2

25/09/11

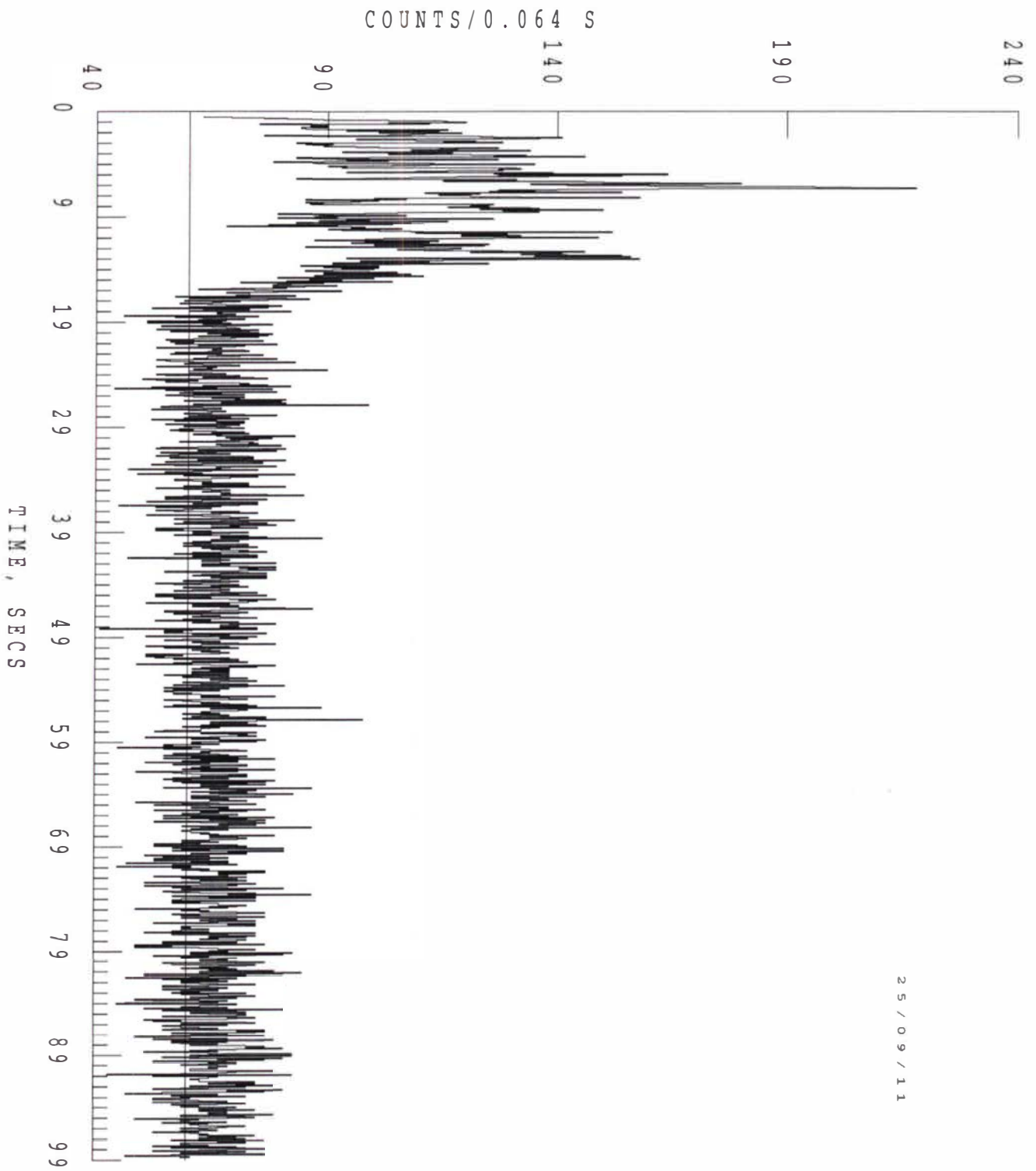
31647.406

08:47:27

A

50 - 200 keV

Solar



KONUS HRES 20110925 31647

TRIGGER TIME: 25/09/11 DOY 268 Julian 2455830.86628 UT = 08.791 08:47:27 (31647.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

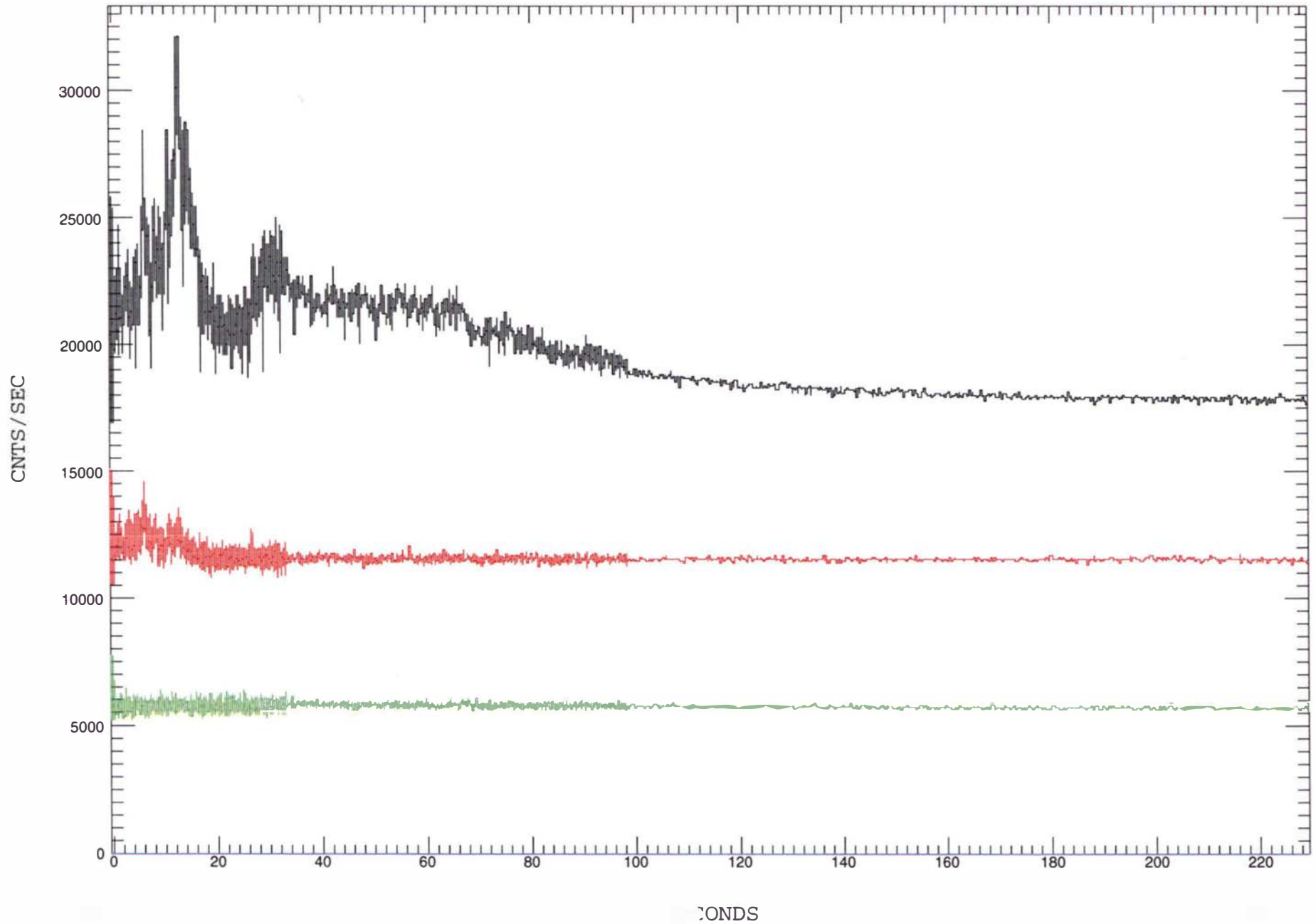
Chan 4 : [> 10 MeV]

Channel 1 + 15900

Channel 2 + 10600

Channel 3 + 5300

Channel 4 + 0



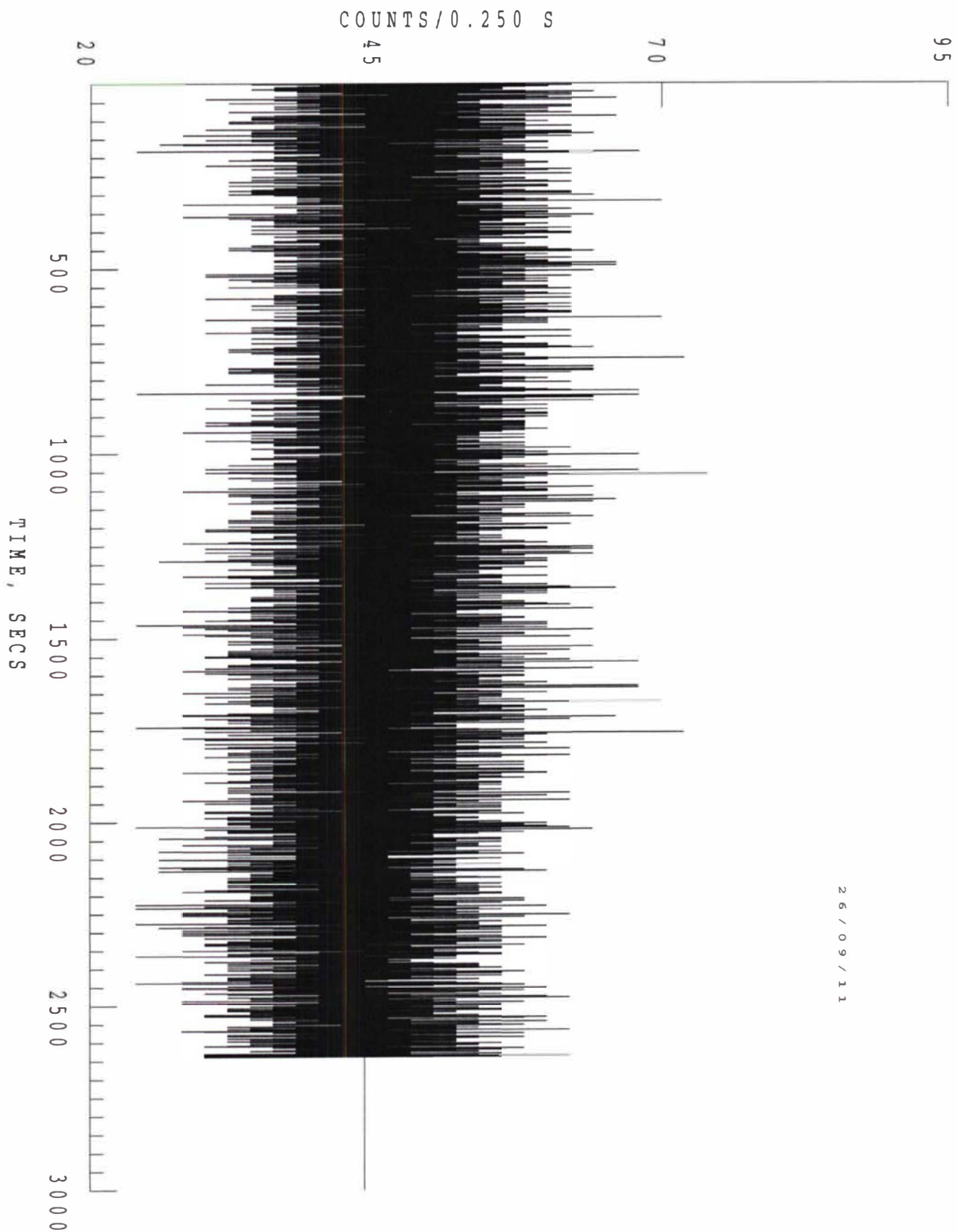
MS01

25/09/11

30314.843

A

50 - 3000 keV



From williams@gammaburst.ssl.berkeley.edu Fri Sep 30 23:03:19 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Fri, 30 Sep 2011 23:02:48 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu

Subject: No RHessi_data_for_KONUS2_20110925_31647

X-Ucb-Scan-Signature: 3924ff8b56dd77aa568ed8b407b426de35708434

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

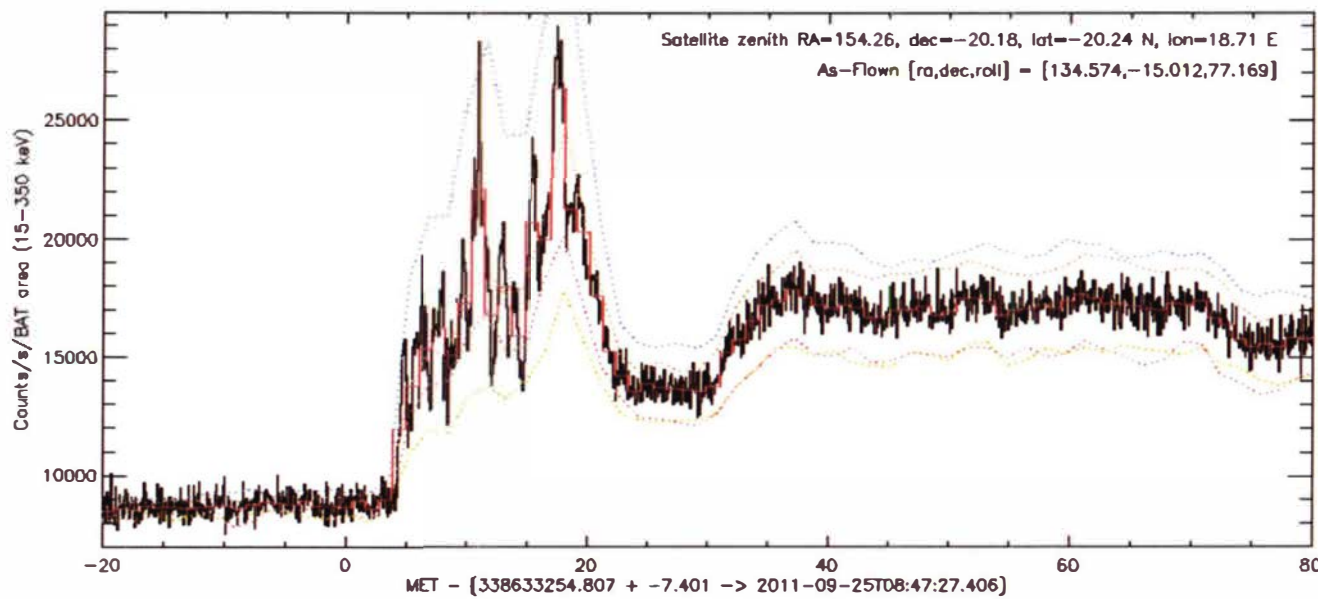
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 30-Sep-2011 23:04:35.00
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 110925_0847
From: palmer+automatic_lightcurve@lanl.gov
Date: Sun, 25 Sep 2011 17:49:16 -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/110925_0847.png



```
% /usr/local/bin/swinfo -o 338633254.807
Time(MET + UTCF -> UT): 338633254.807 + -7.401 -> 2011-09-25T08:47:27.406
Swift Zenith(RA,dec): 154.26, -20.18
Swift Location(lon,lat,alt): 18.71 E, -20.24 N, 578 km
Obs Sequence Number: 00074317032
Obs Target Name: saa-cold-268-01
Obs Date and Times: 2011-09-25 08:24:54 - 08:49:50
Obs Pointing(ra,dec,roll): 134.574, -15.012, 77.17
```

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/110925_0847.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110925_0847_bat64ms_ipn

/tmp/110925_0847_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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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 26 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/scik/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?

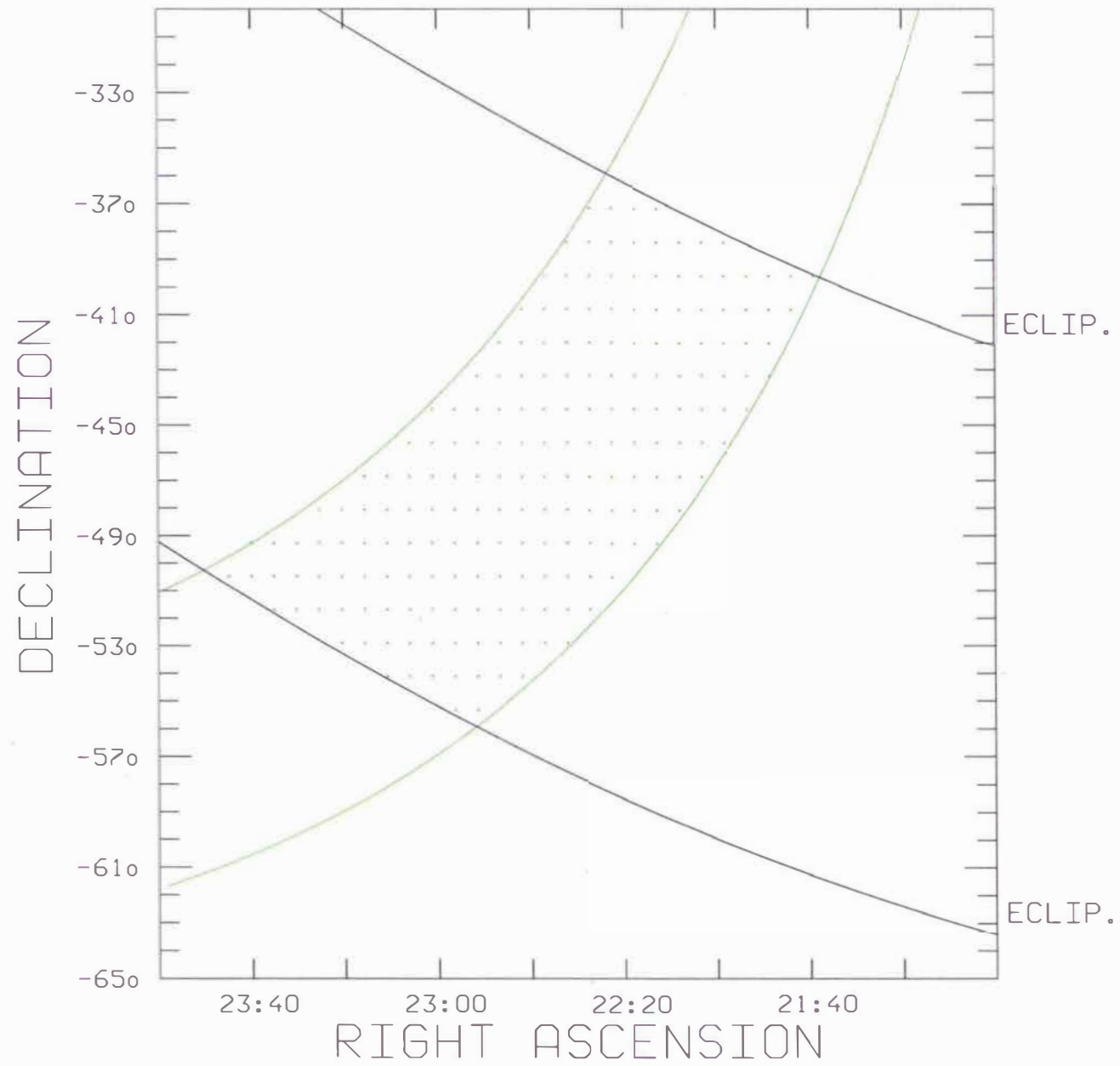
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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-ipncl.pl>)

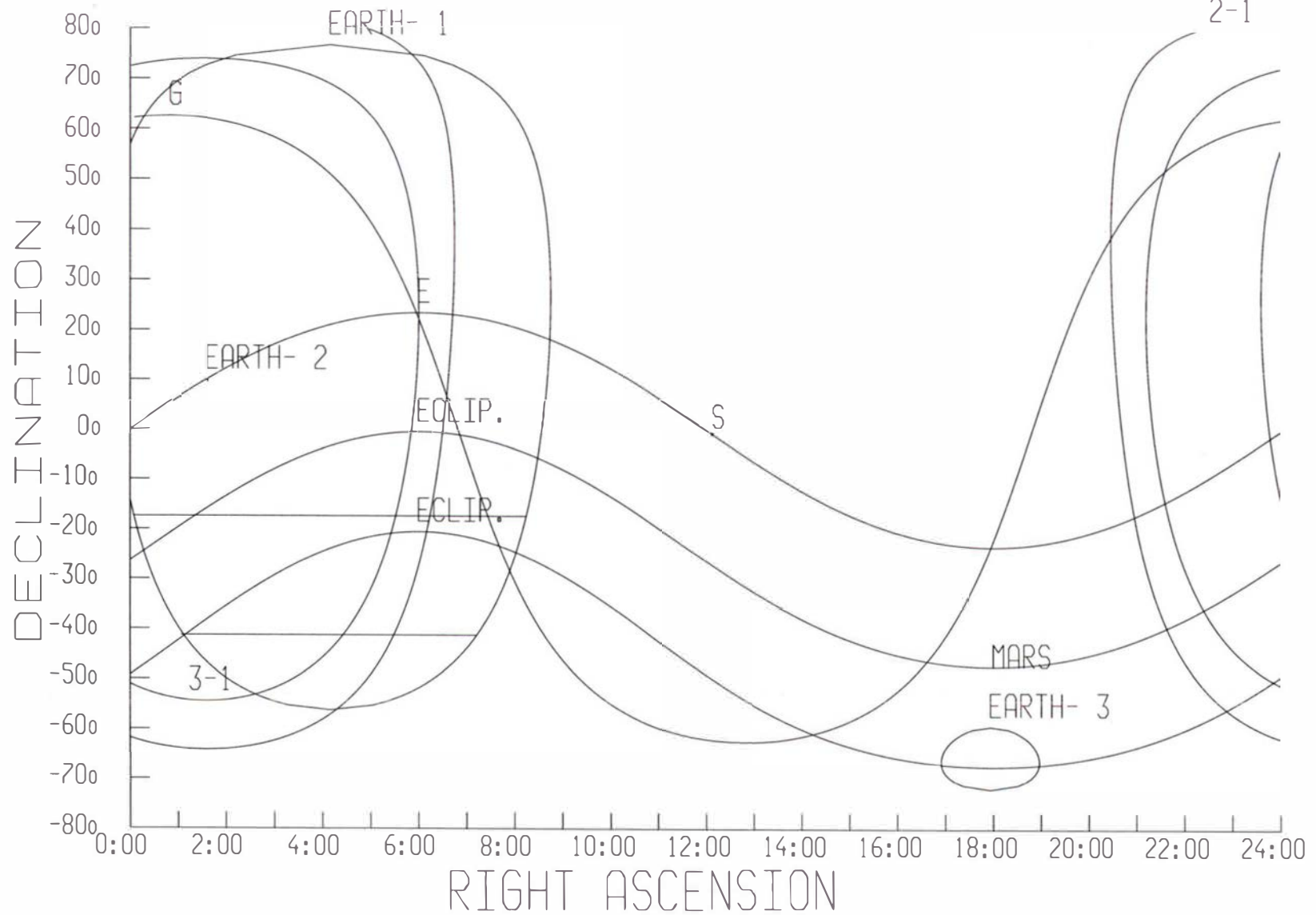
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

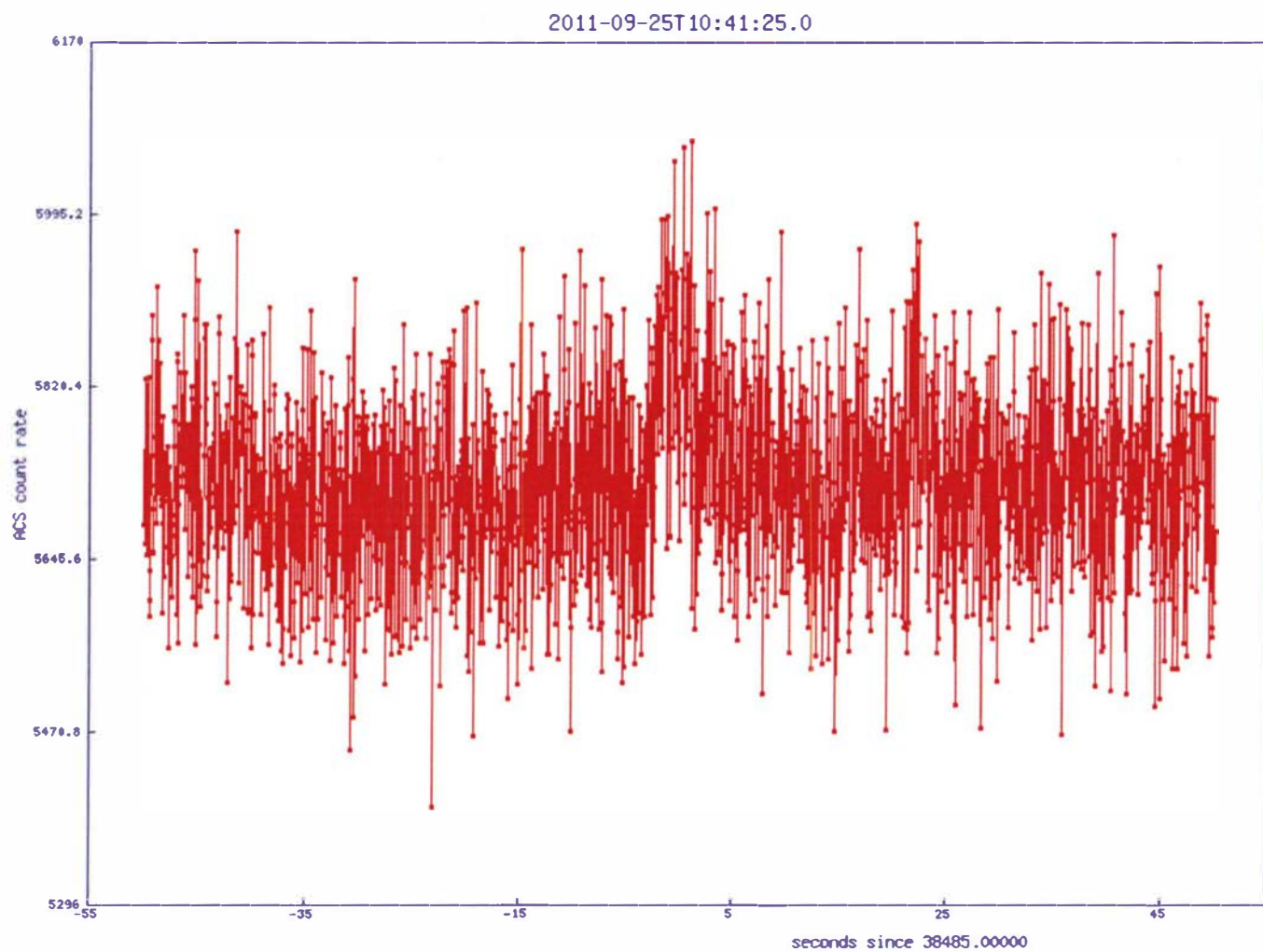


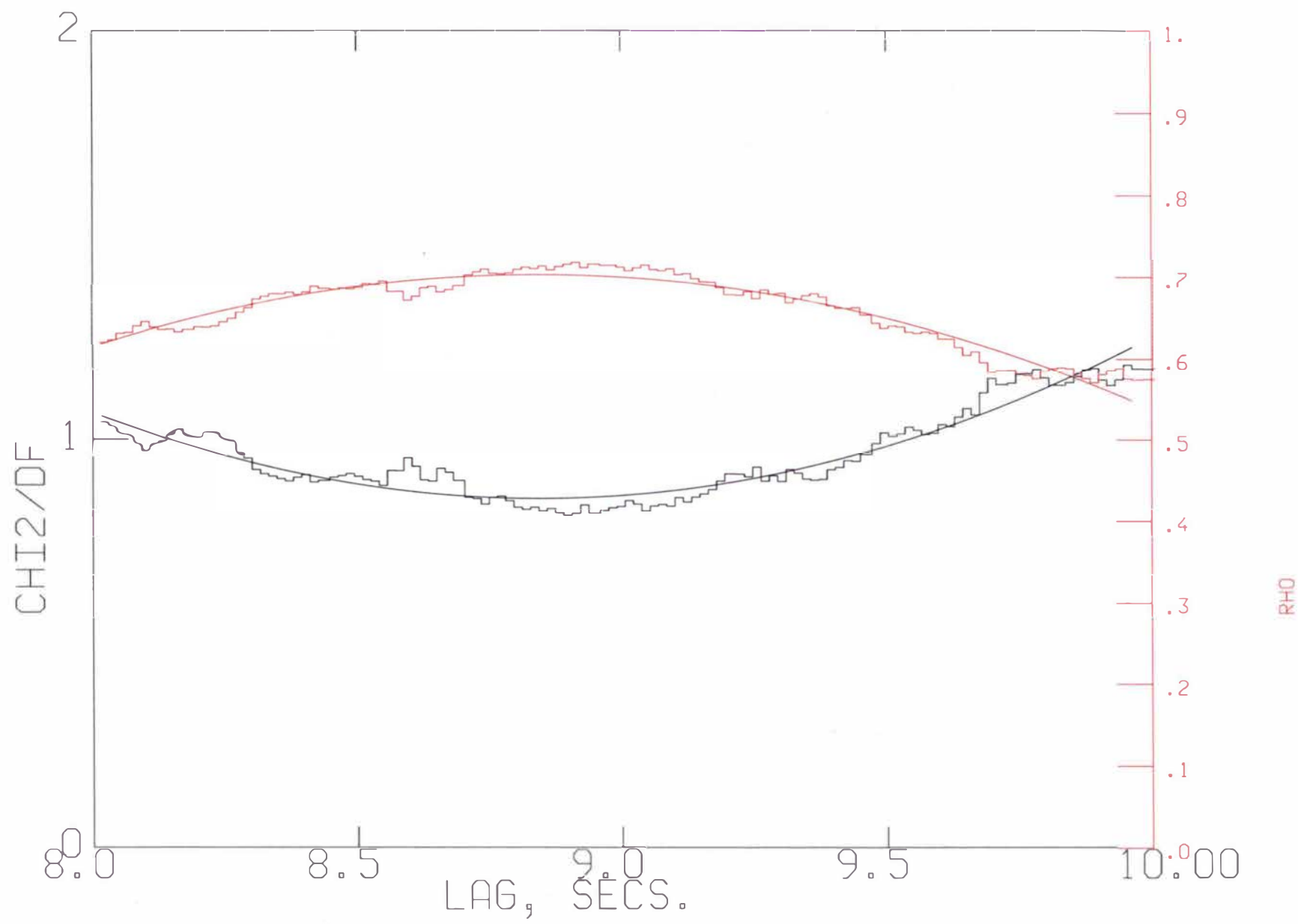
EVENT OF SEP 25, 2011 10:41

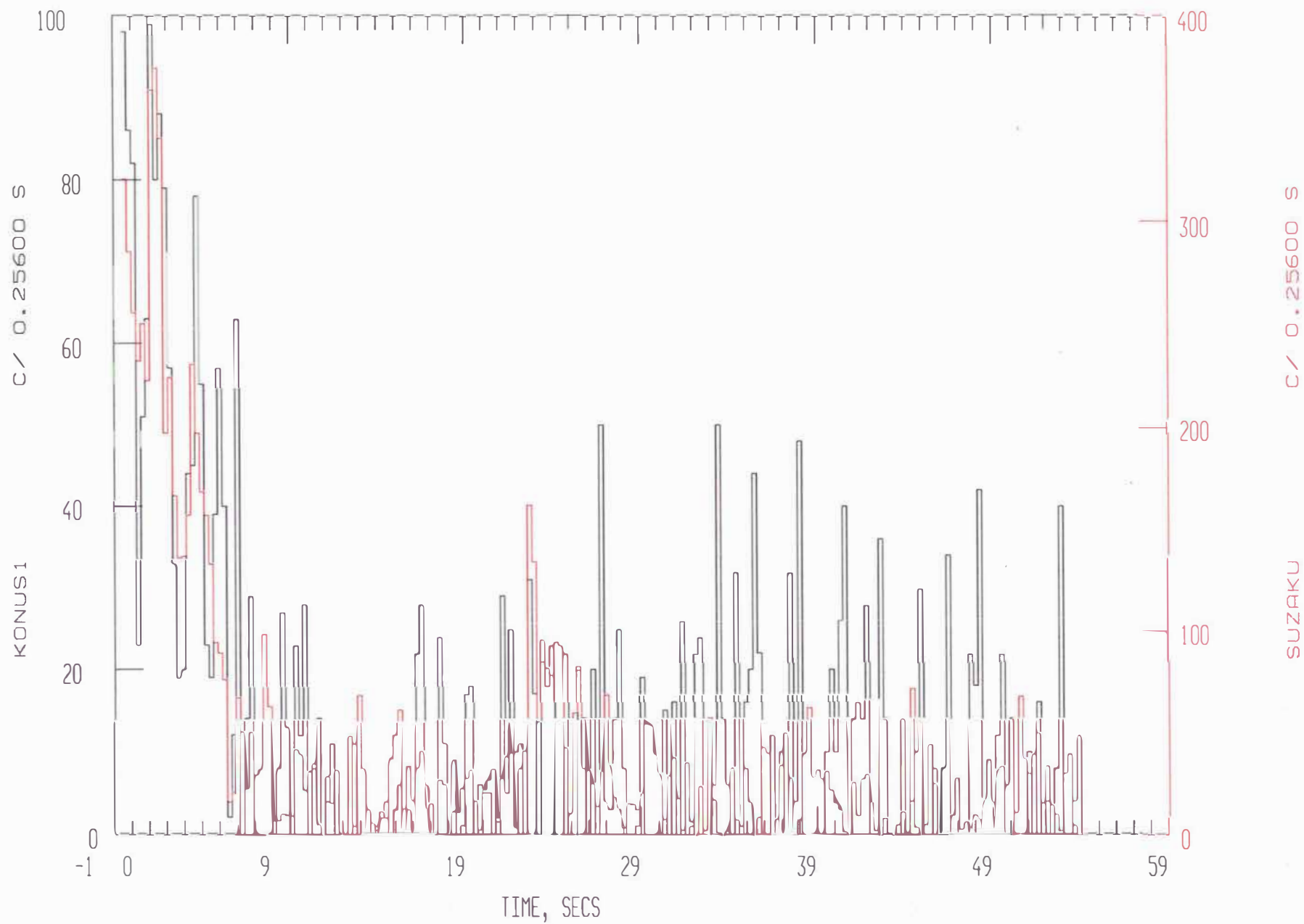
26/03/2013

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









26/ 3/13

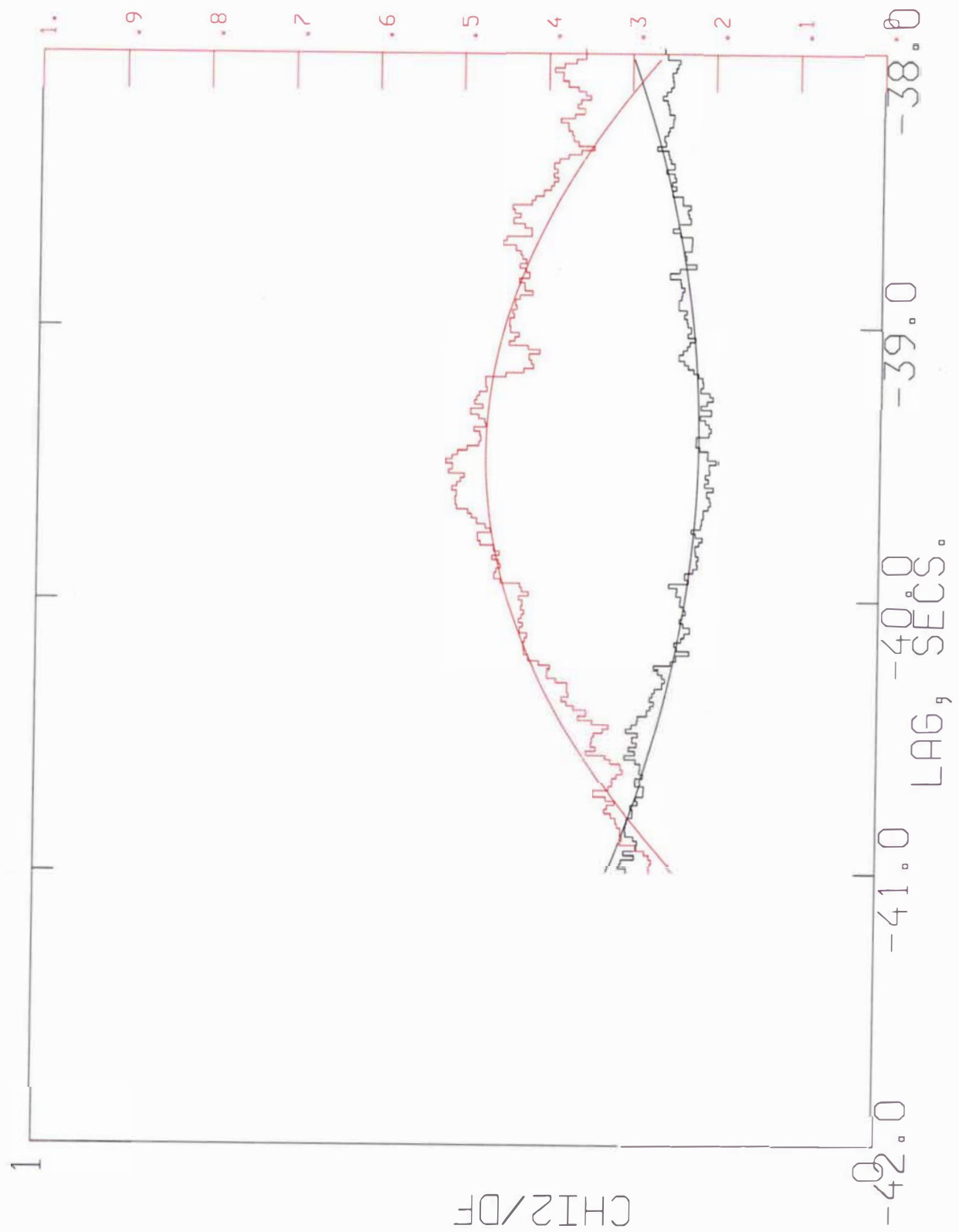
38485.000

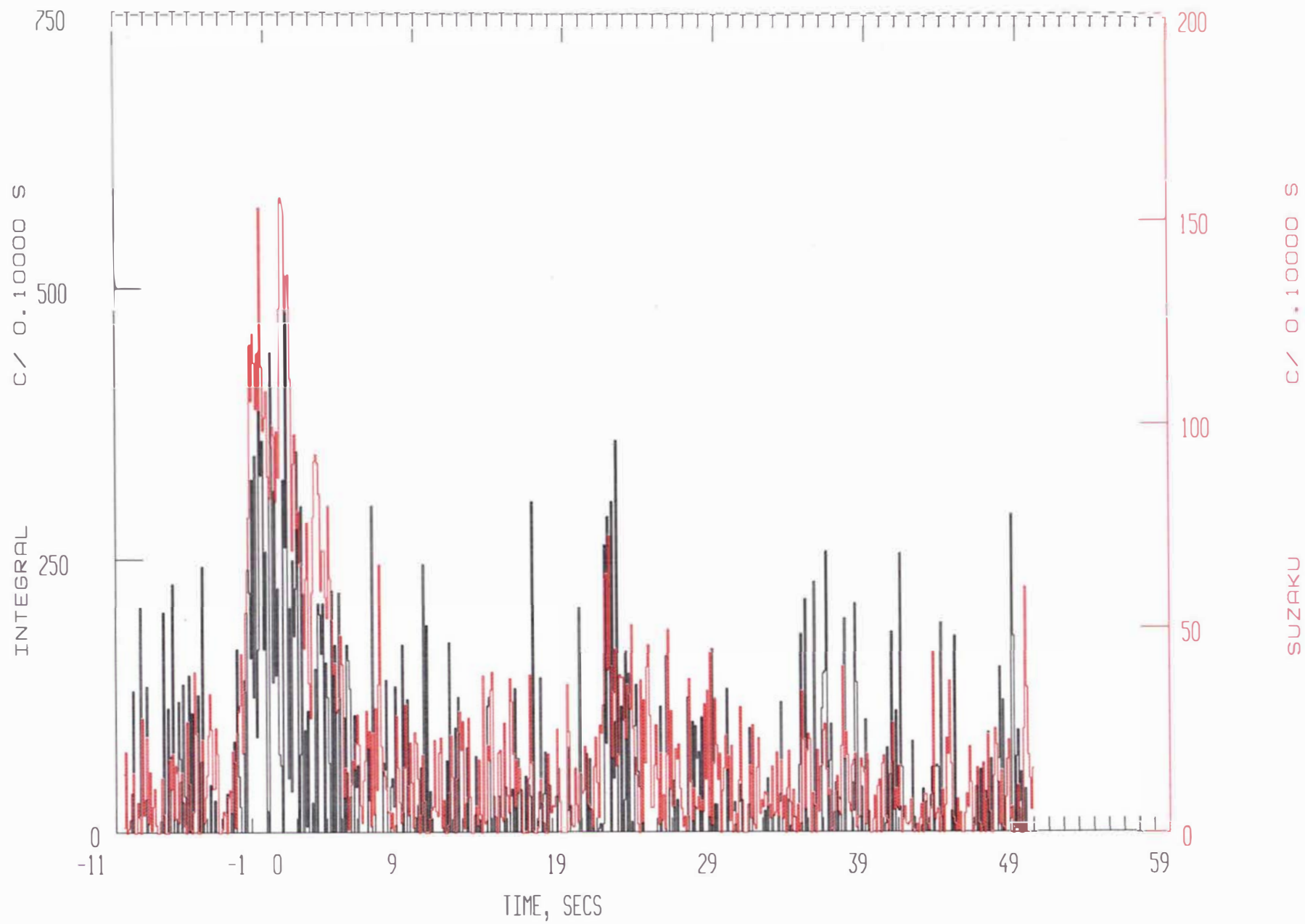
25/09/11

CORRELATION

-SUZAKU

INTEGRAL





KONUS1

25/09/11

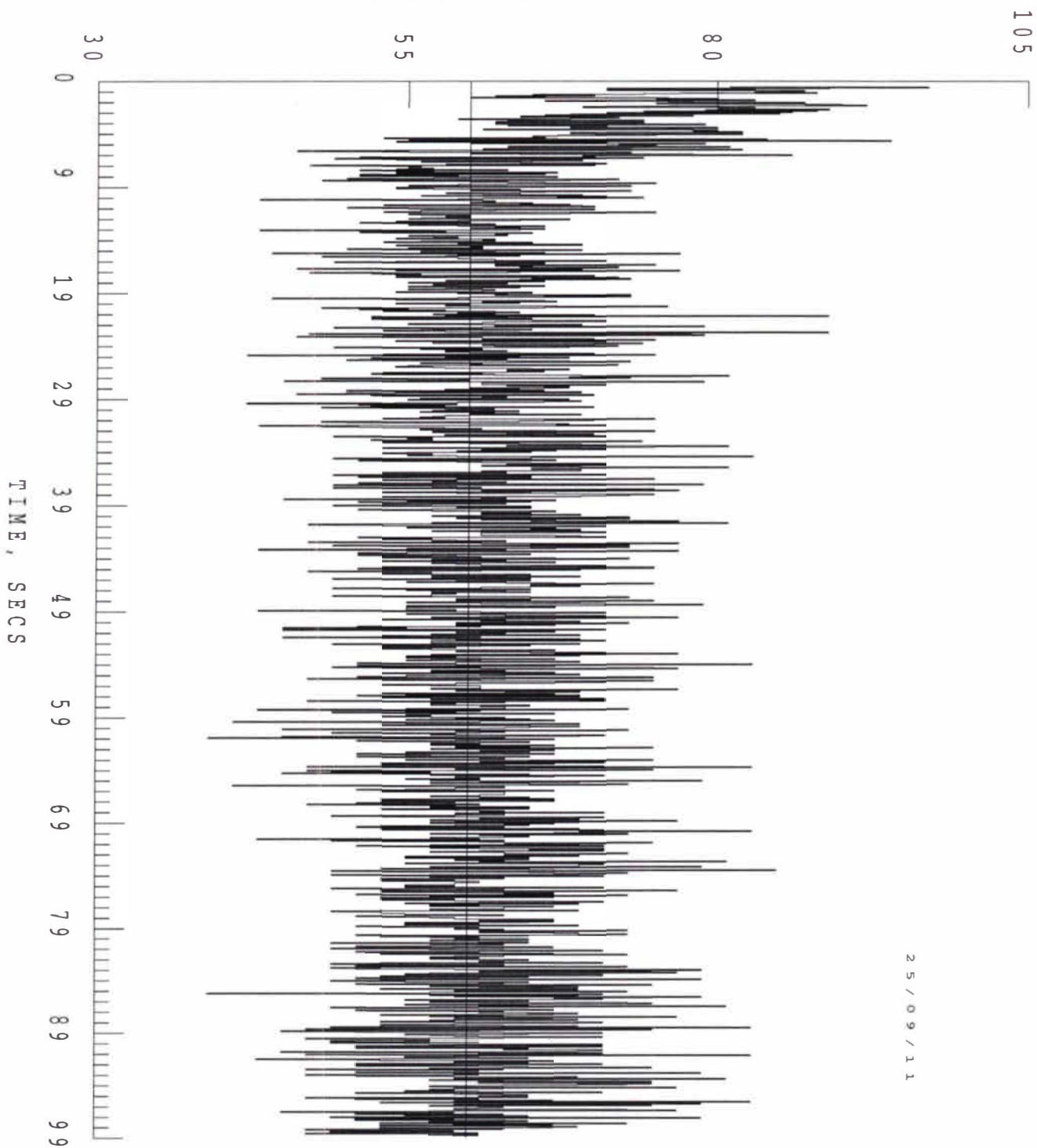
38485.784

B

50 - 200 keV

10:41:25

COUNTS/0.064 S



KONUS HRES 20110925 38485

TRIGGER TIME: 25/09/11 DOY 268 Julian 2455830.94543 UT = 10.690 10:41:25 (38485.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

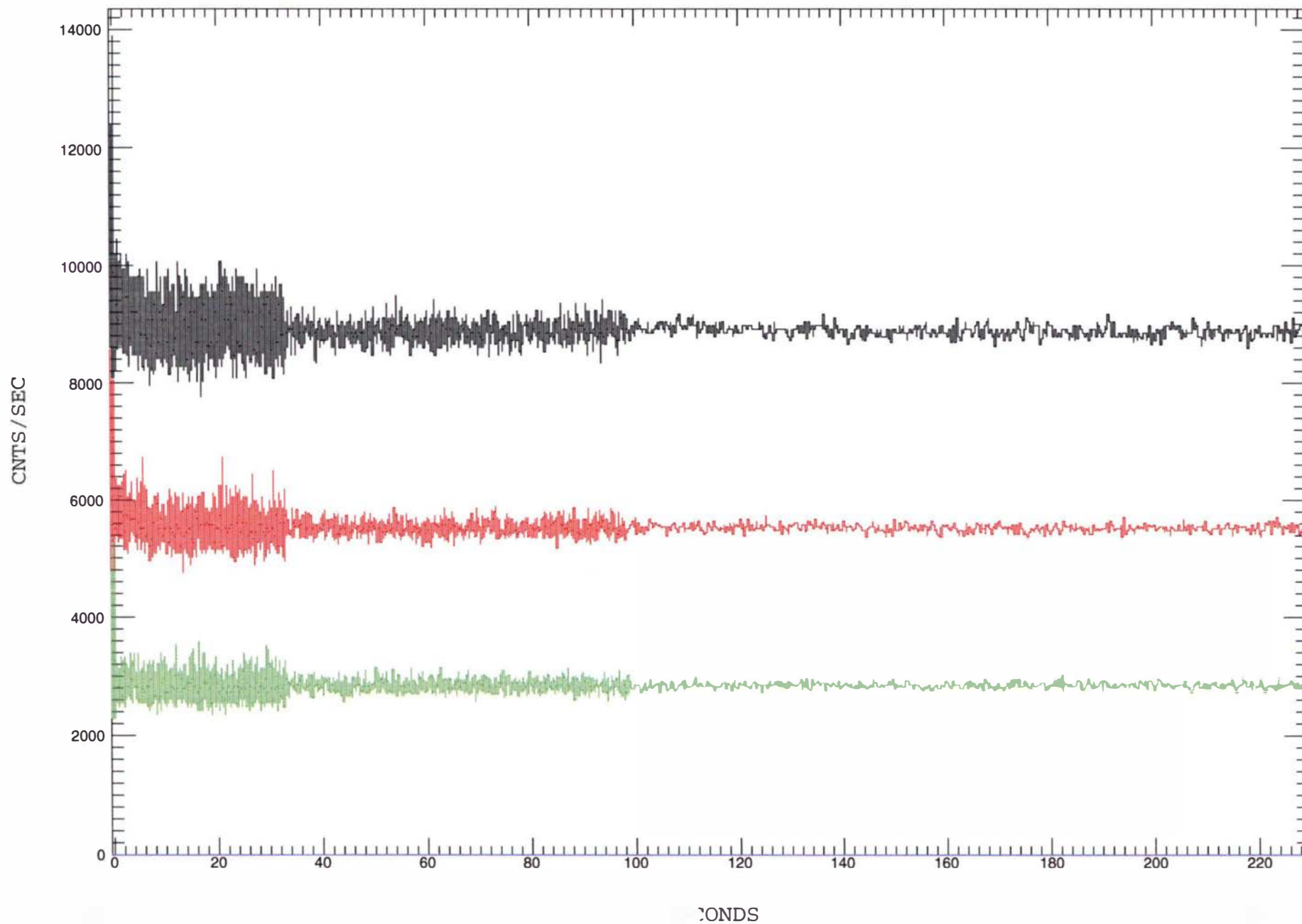
Chan 4 : [> 10 MeV]

Channel 1 + 6900

Channel 2 + 4600

Channel 3 + 2300

Channel 4 + 0



MS01

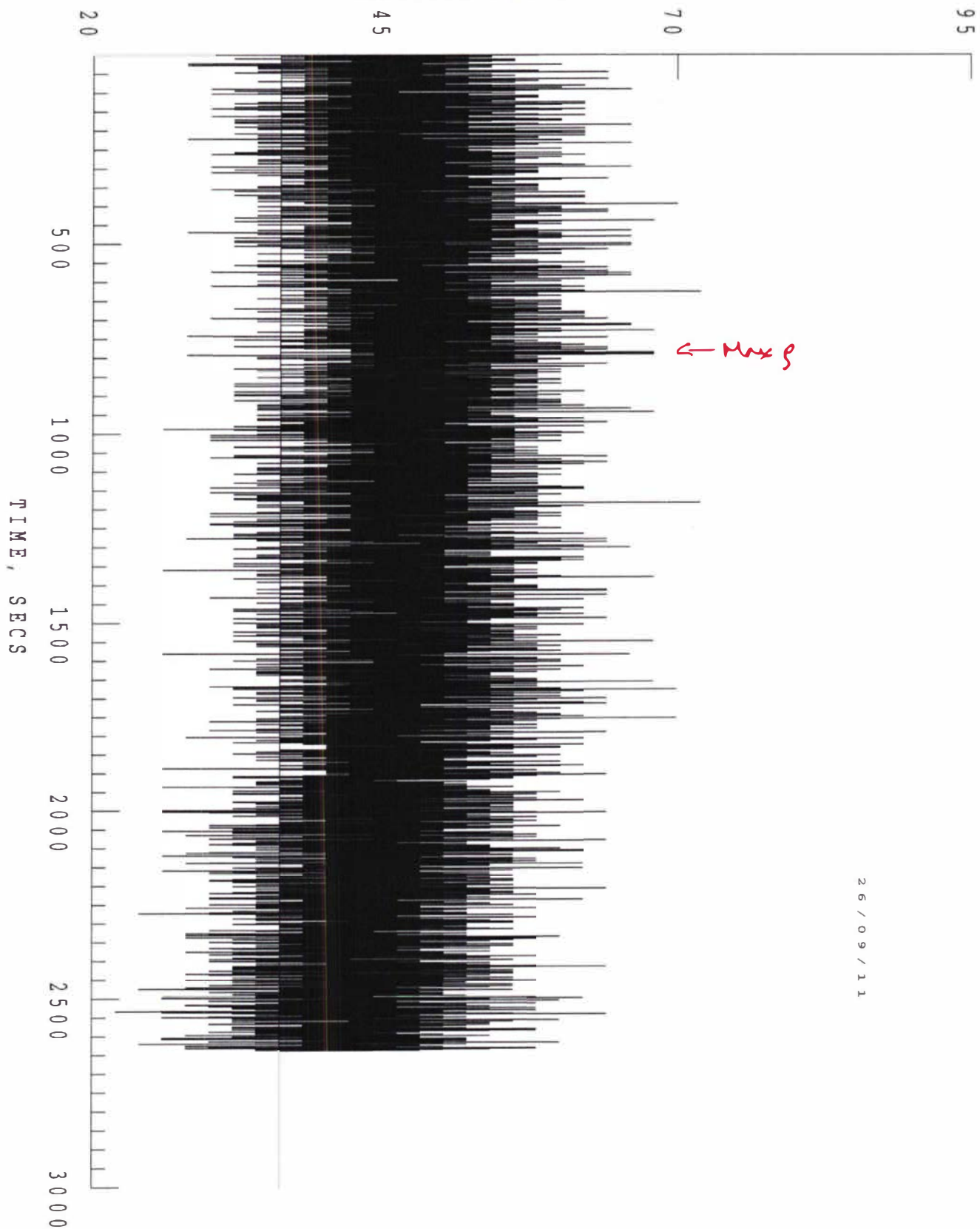
25/09/11

37154.721

B

50 - 3000 keV

COUNTS/0.250 S



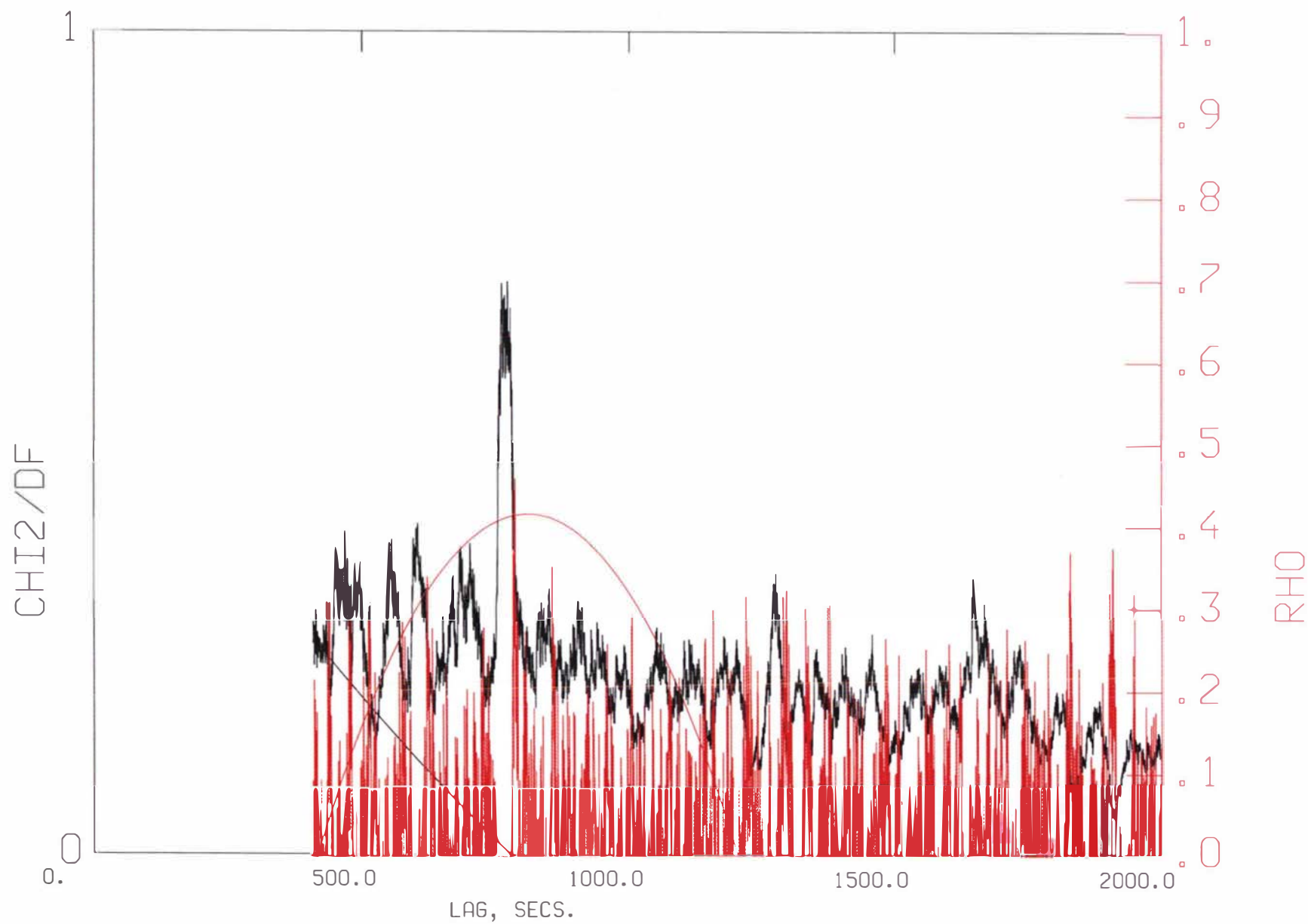
KONUS1

-MS01 HEND CORRELATION

25/09/11

38485.784

5/12/11

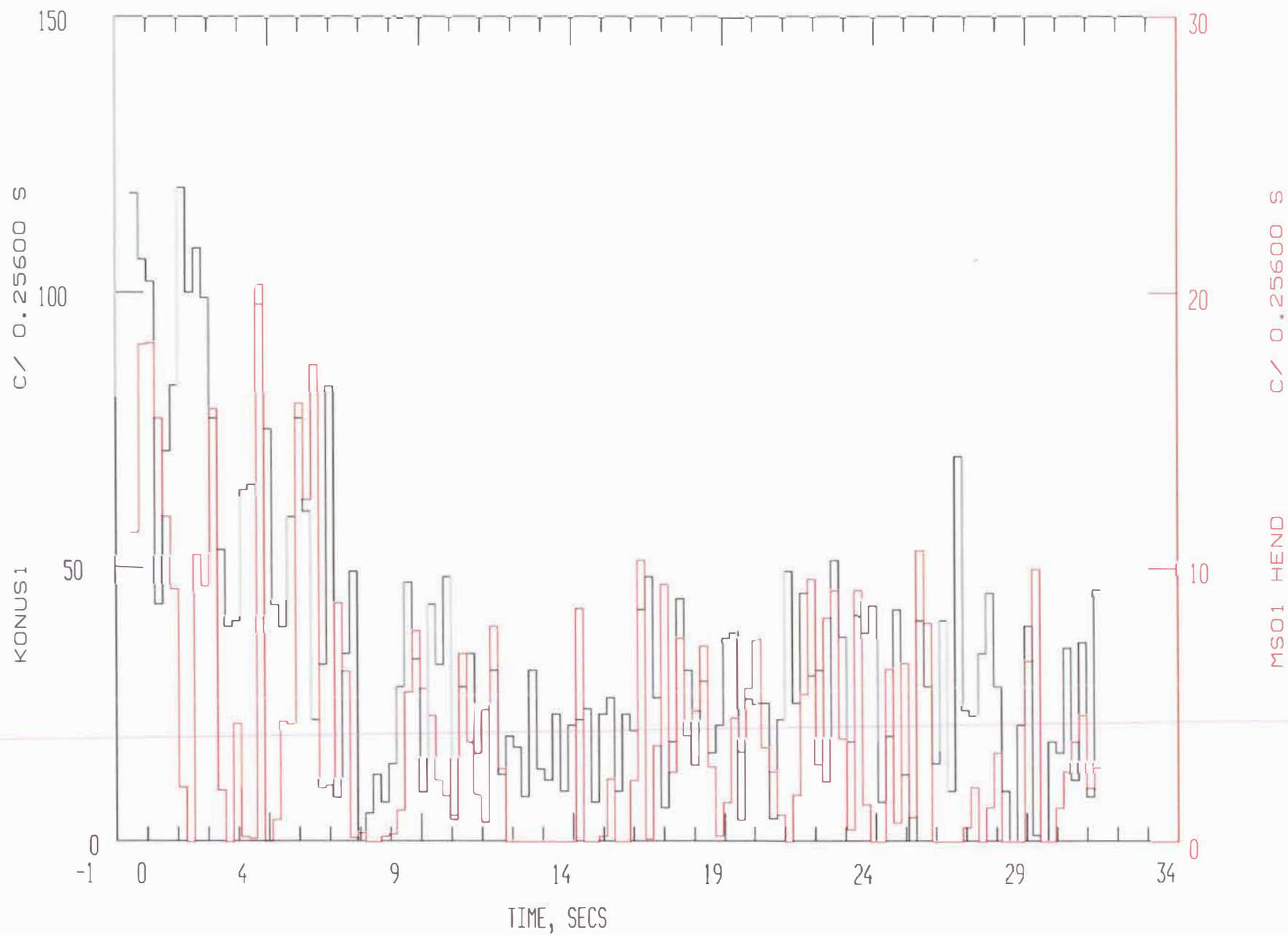


B

KONUS1 -MSO1 HEND CORRELATION

25/09/11 38485.784

5/12/11



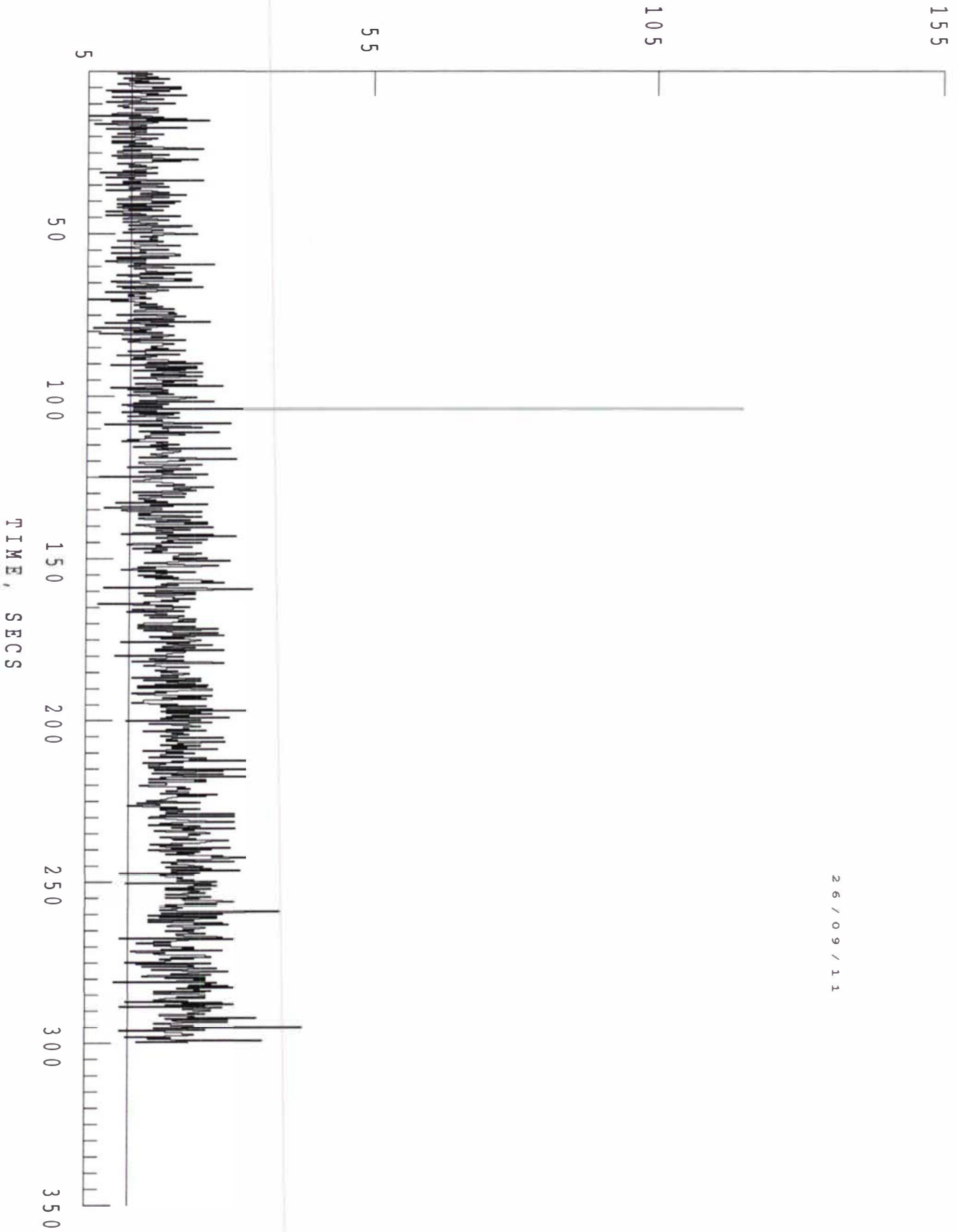
HESSI

25/09/11 38335.000 (KONUS1_20110925_38485)

B

25 - 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 110925_1041

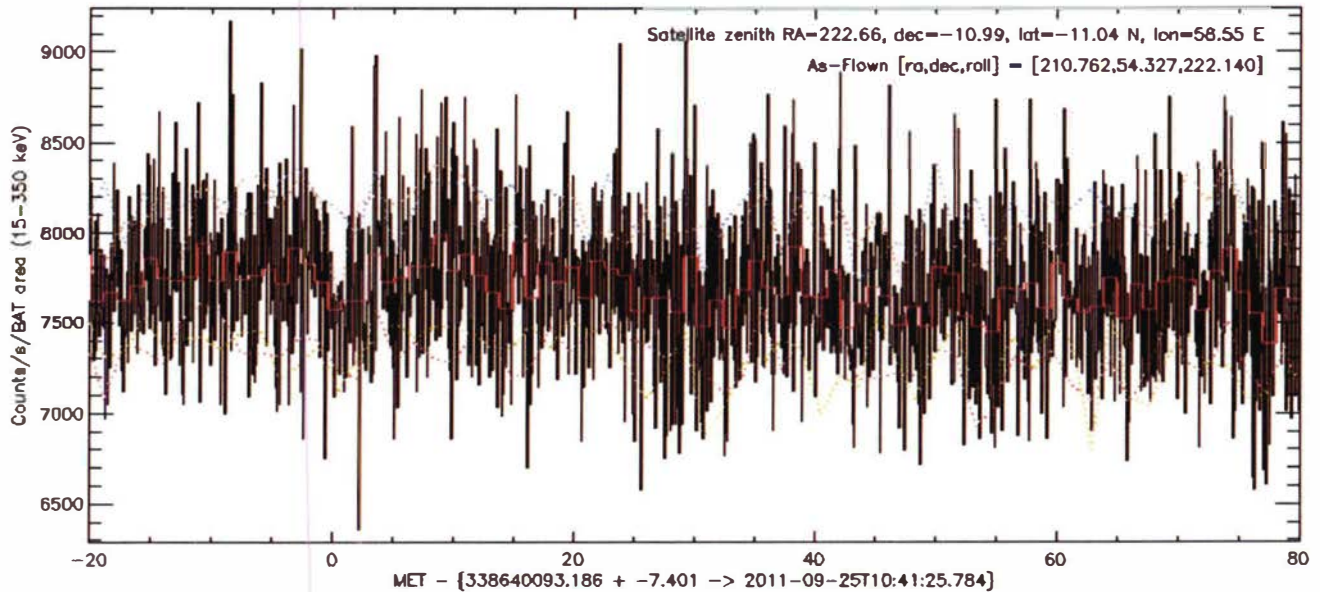
From: palmer+automatic_lightcurve@lanl.gov

Date: Sun, 25 Sep 2011 17:49:16 -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/110925_1041.png



```
% /usr/local/bin/swinfo -o 338640093.185
Time(MET + UTCF -> UT): 338640093.186 + -7.401 -> 2011-09-25T10:41:25.784
Swift Zenith(RA,dec): 222.66, -10.99
Swift Location(lon,lat,alt): 58.55 E, -11.04 N, 579 km
Obs Sequence Number: 00032081046
Obs Target Name: PTF11kly
Obs Date and Times: 2011-09-25 10:30:54 - 10:53:53
Obs Pointing(ra,dec,roll): 210.762, 54.327, 222.14
```

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/110925_1041_bat64ms_ipn

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

/tmp/110925_1041.png

/tmp/110925_1041.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 yamaoka@phys.aoyama.ac.jp Wed Nov 23 18:51:39 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Thu, 24 Nov 2011 11:55:43 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: Kevin Hurley <khurley@ssl.berkeley.edu>
Cc: yamaoka@phys.aoyama.ac.jp
Subject: Re: Suzaku event on September 25
X-Ucb-Scan-Signature: e442d6bb2df1d7f8e7779b0c134f14494c3c2e31
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,

This one has an incorrect time. The correct time is
* 2011-09-25 10:41:22.523 25 Konus

Best wishes,
Kazu

On Wed, 23 Nov 2011 11:04:59 -0800 (PST)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear Kazu,
>
> There is a trigger at 59182 s on September 25 2011 which is not in your
> list. What do you think it is?
>
> Kevin

--

Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>

SUZAKU

25/09/11

59182.522

~~16:26:22~~

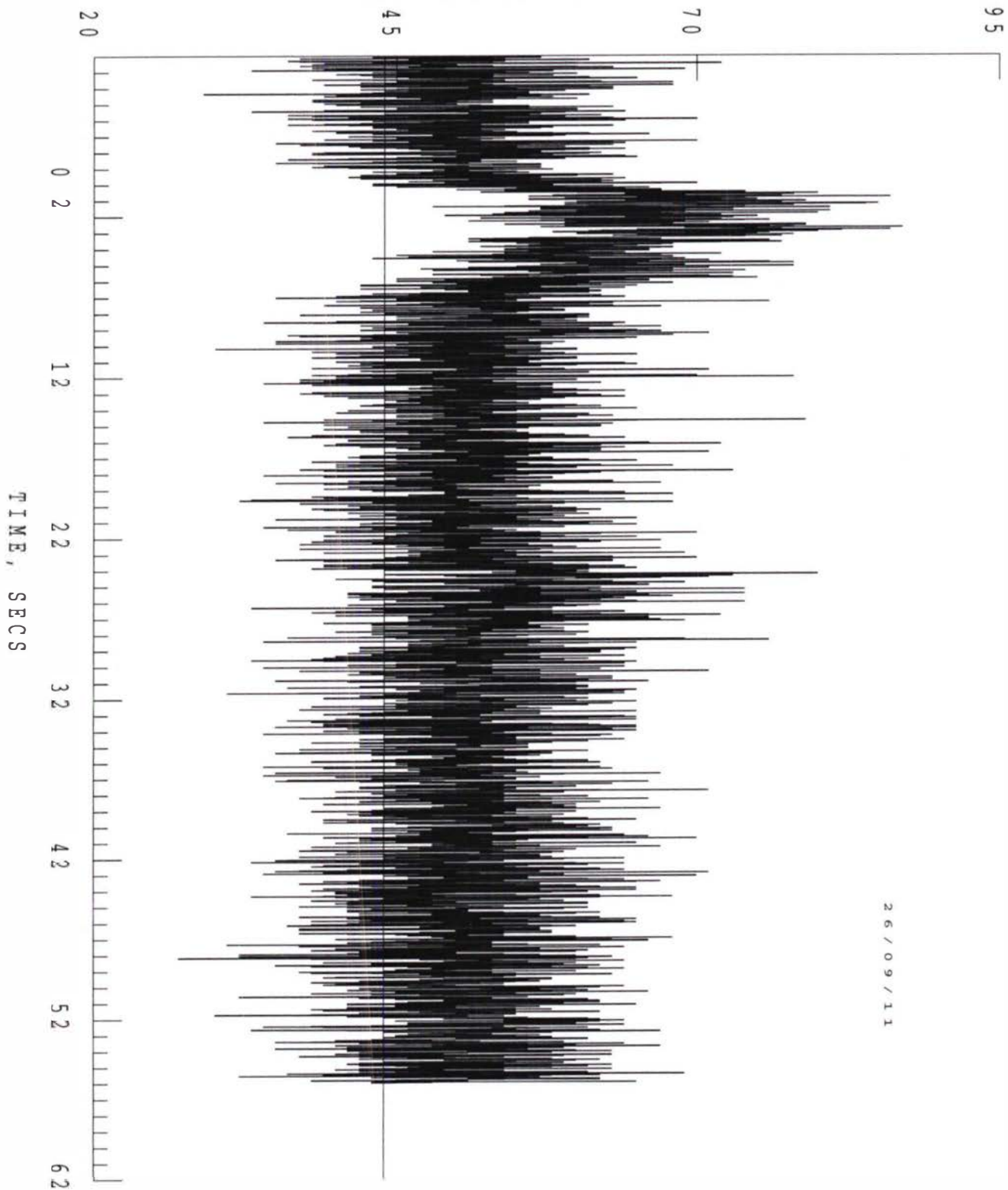
f

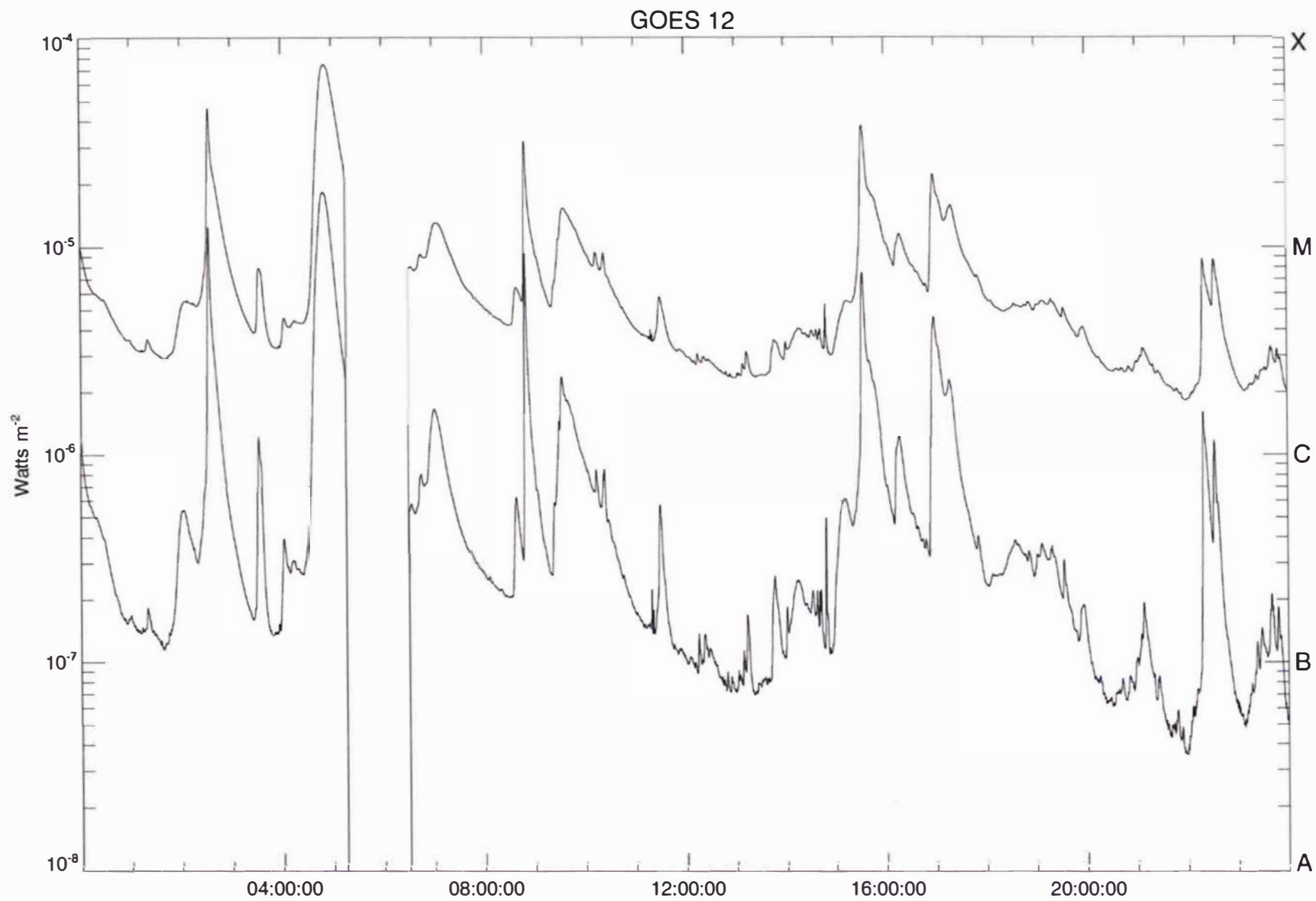
50 - 240 keV

10:41:22

B

COUNTS/0.016 S





Data Start: 11/09/25, 0000:09

Plot created: 11/09/28, 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 26 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?

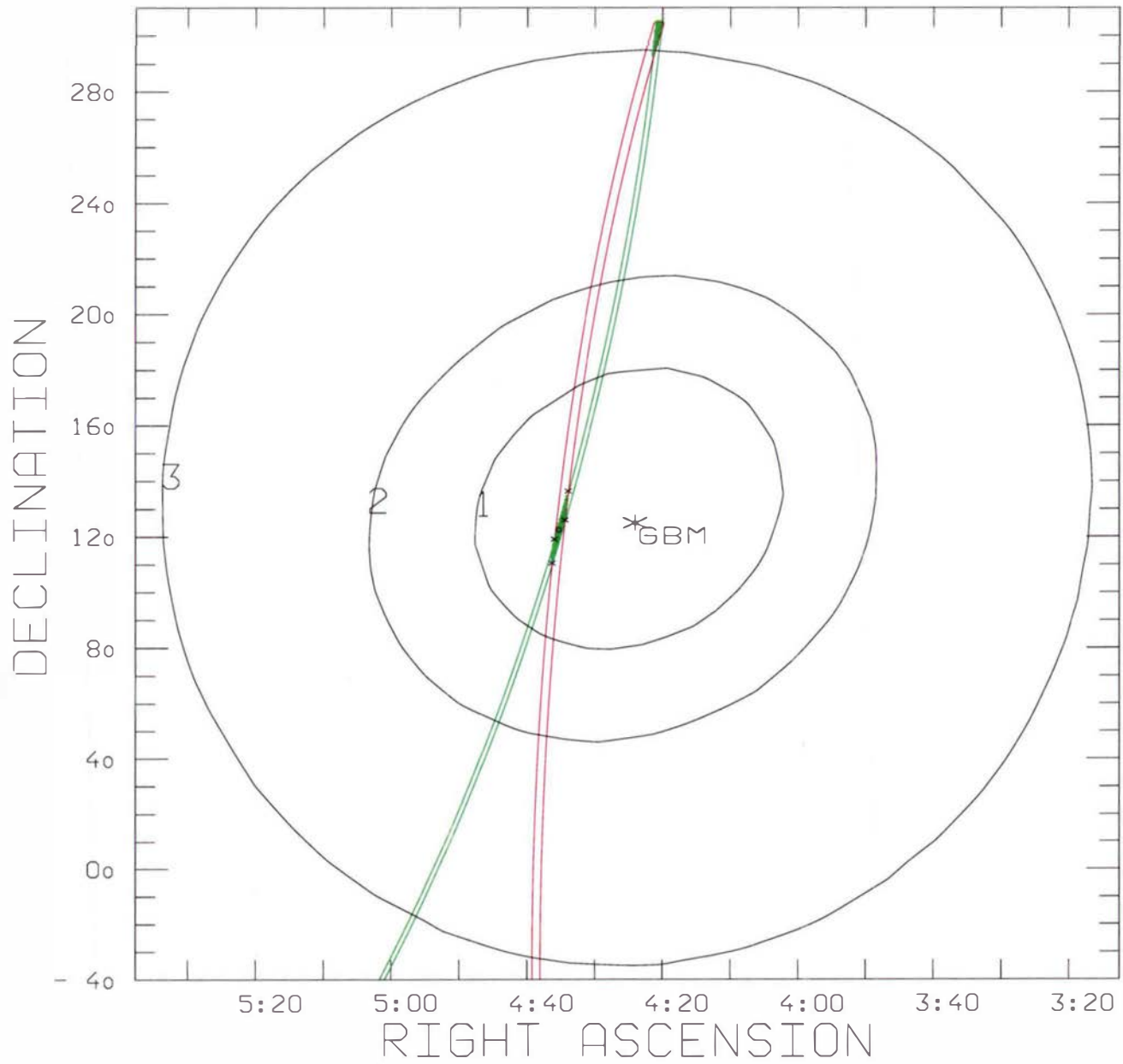
7. For INTEGRAL events

- ☐ 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?

GRB110926 ~09216 S

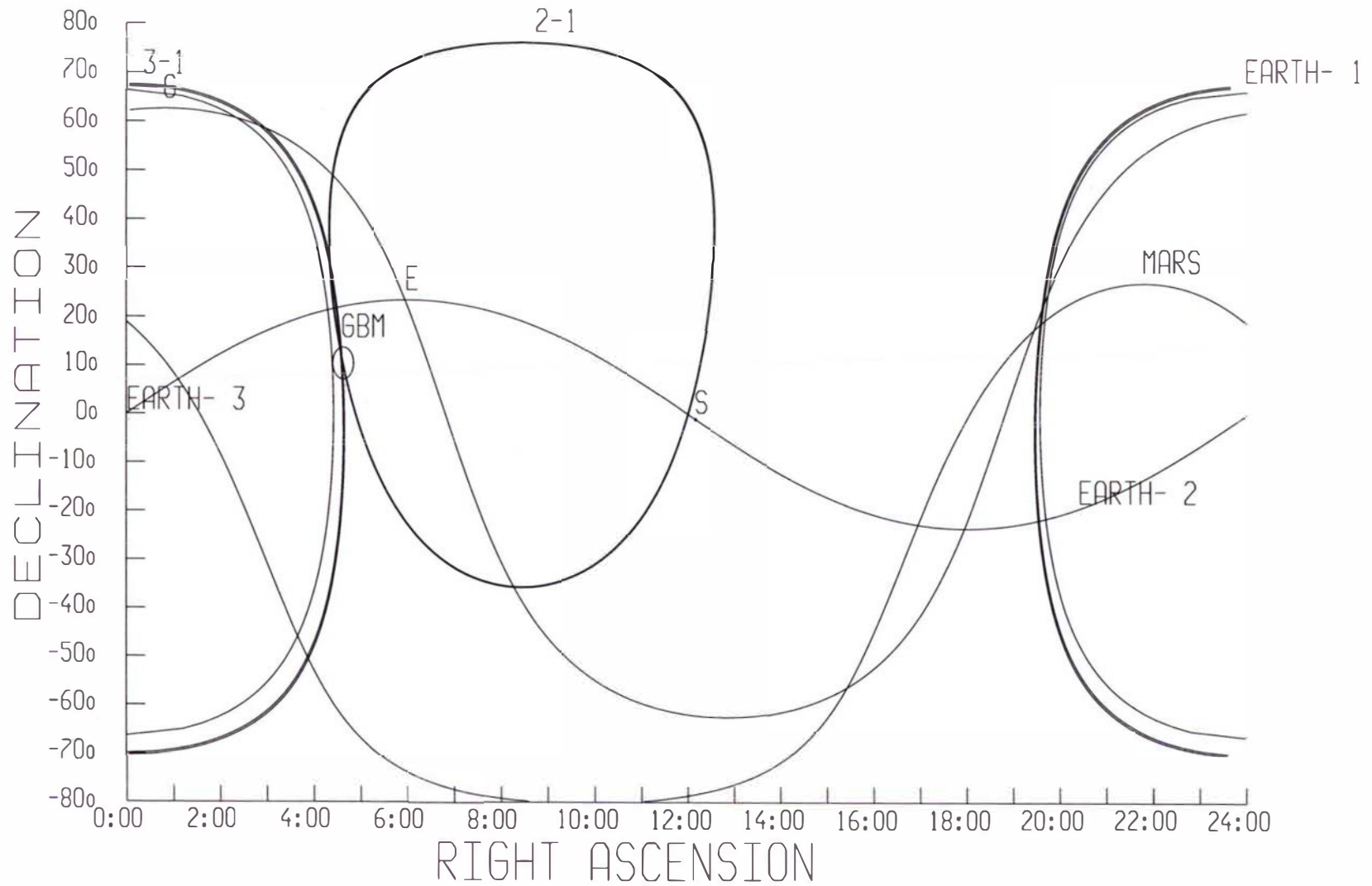
26/07/2016



EVENT OF SEP 26, 2011 2:33

24/07/2015

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



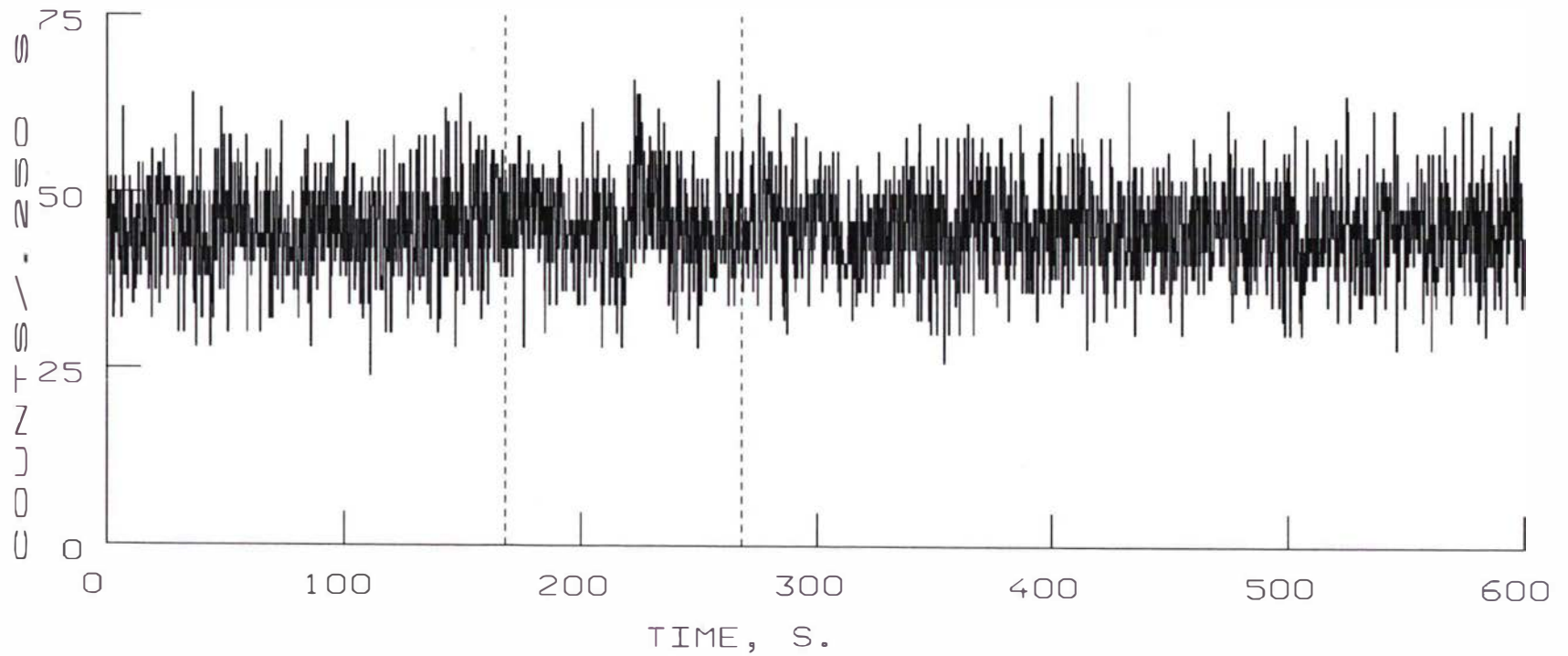
MS01 HEND

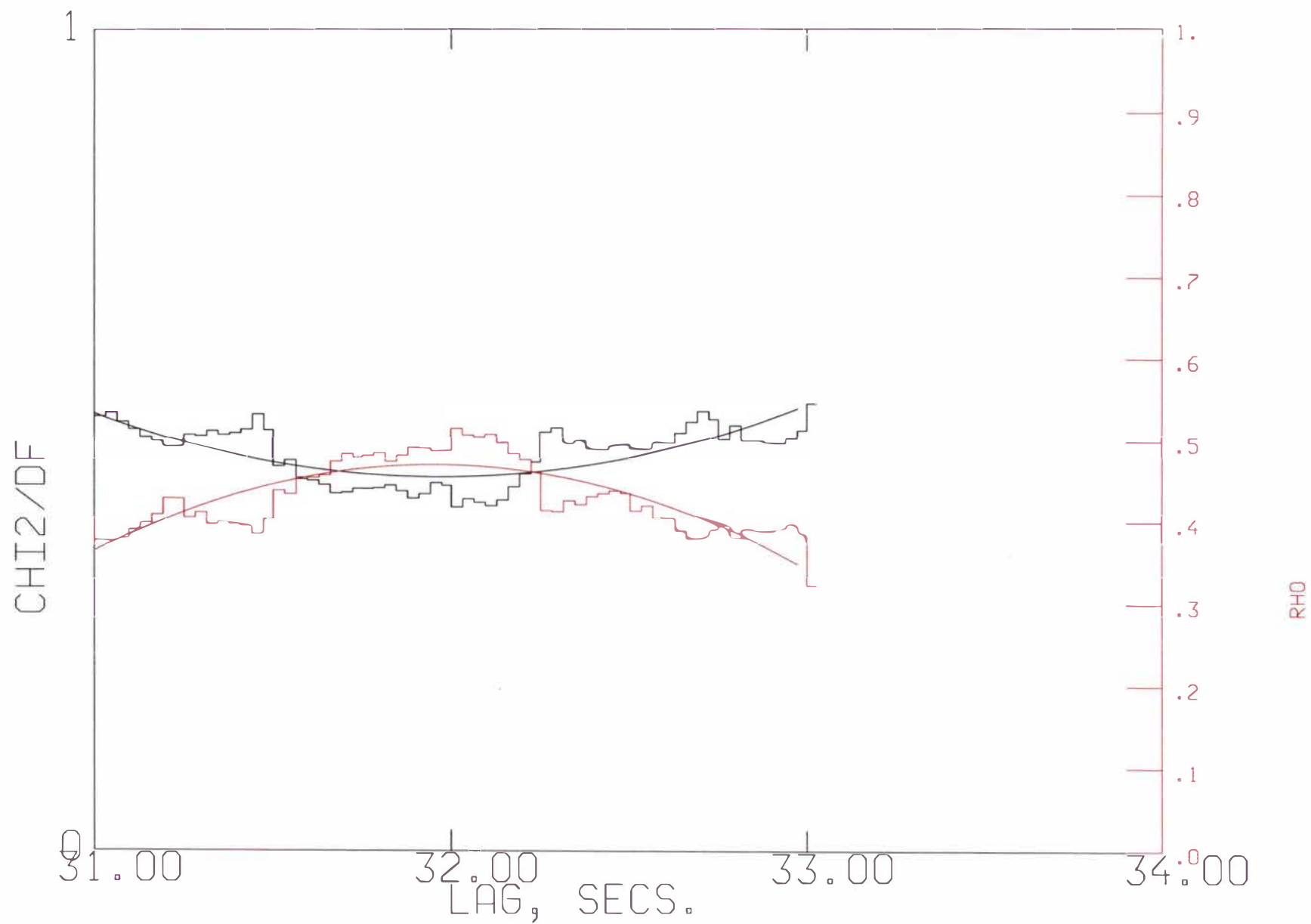
24/07/2015

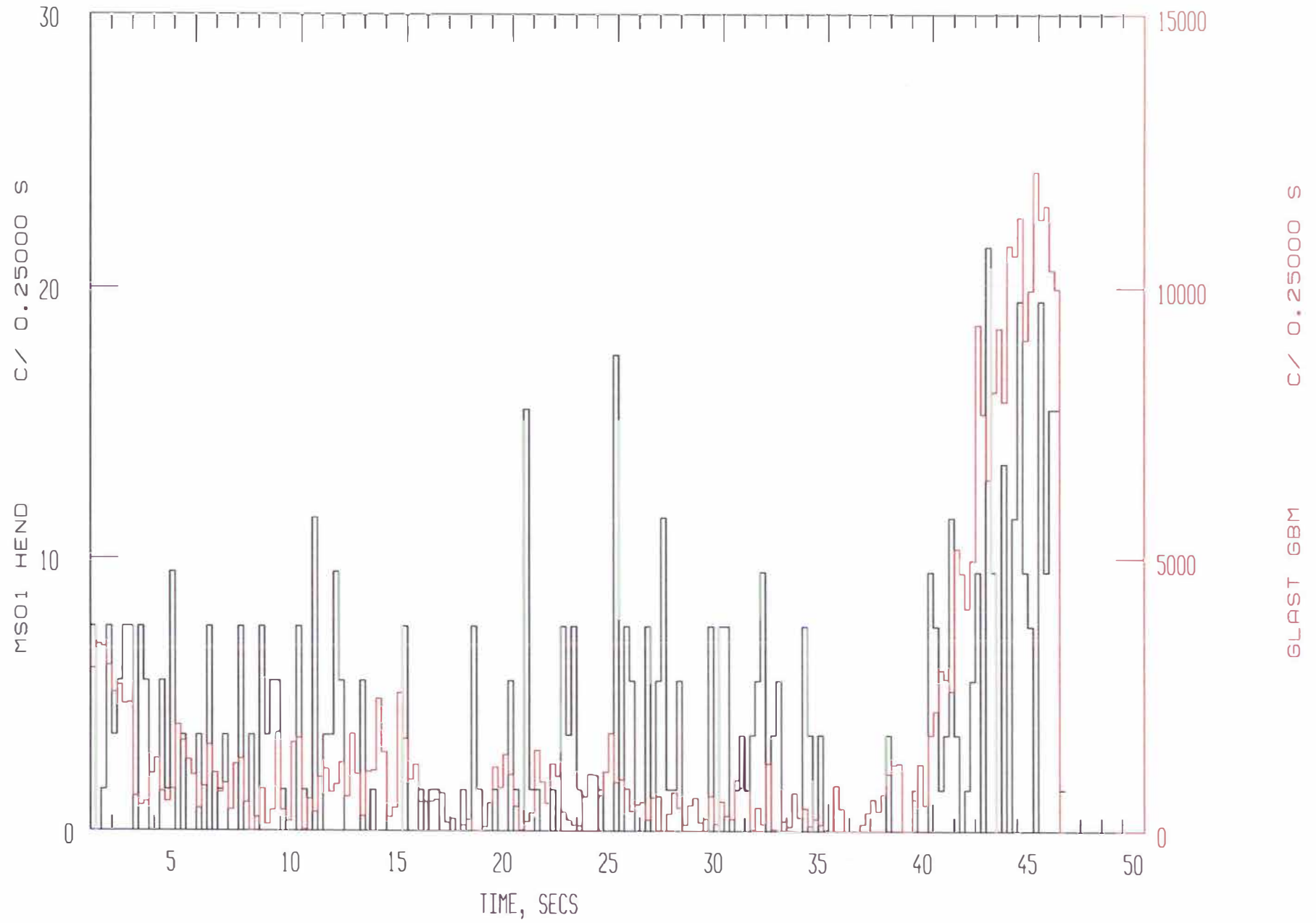
26/09/2011 8533.727 s

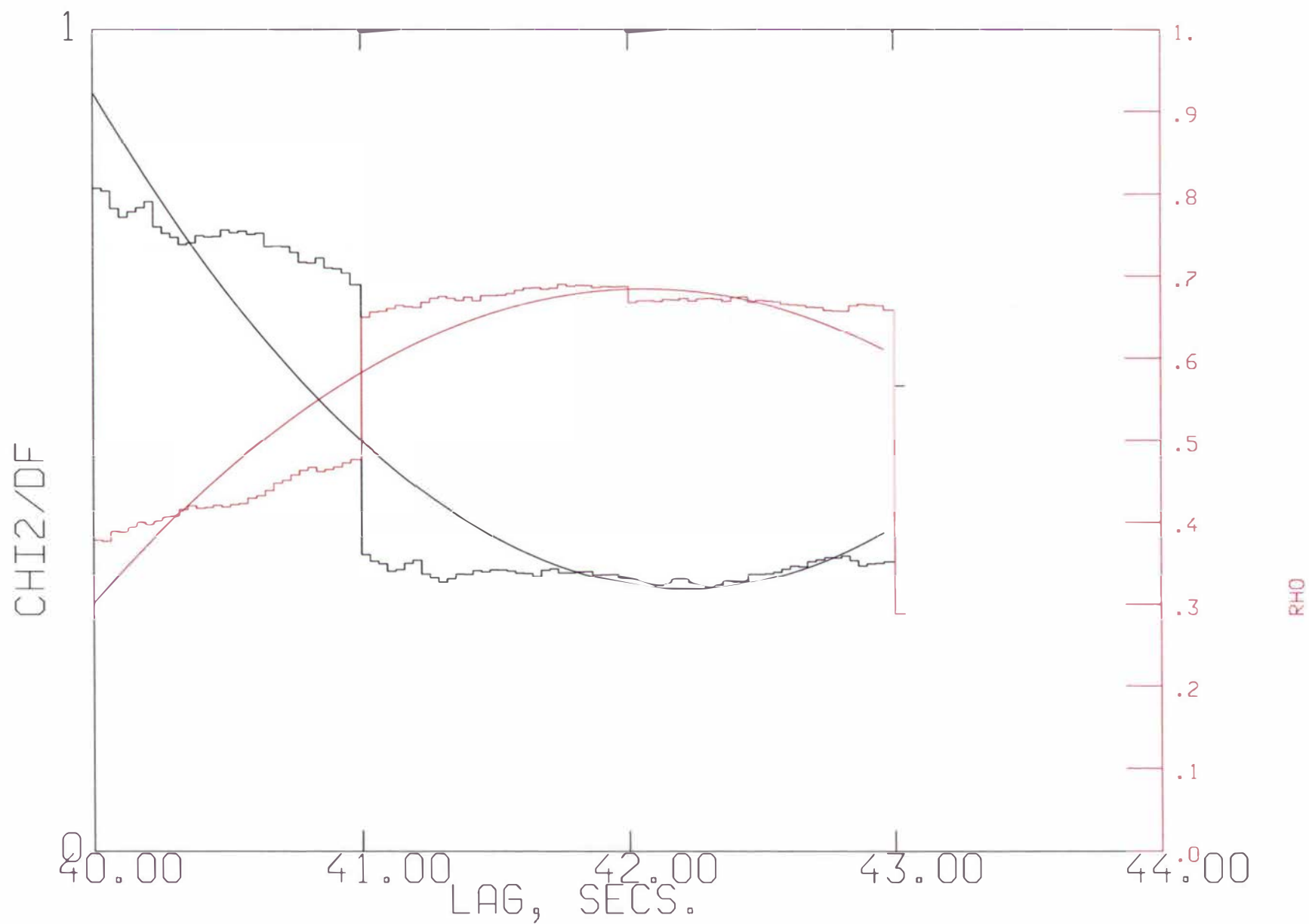
50-3000 keV

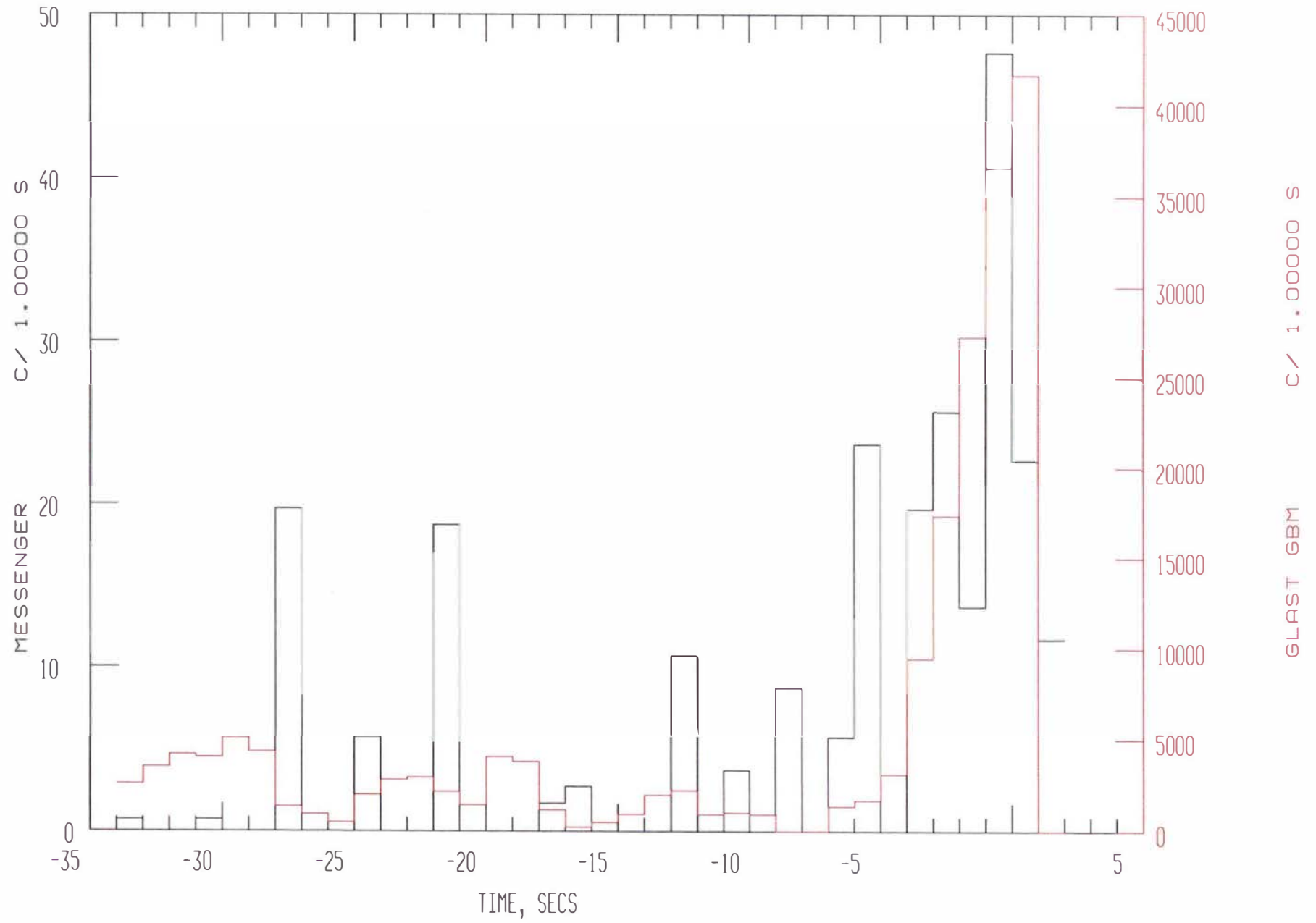
N= 10 M=**
>4.0 SIGMA FLUCTUATIONS











GLAST

26/09/11

9216.644

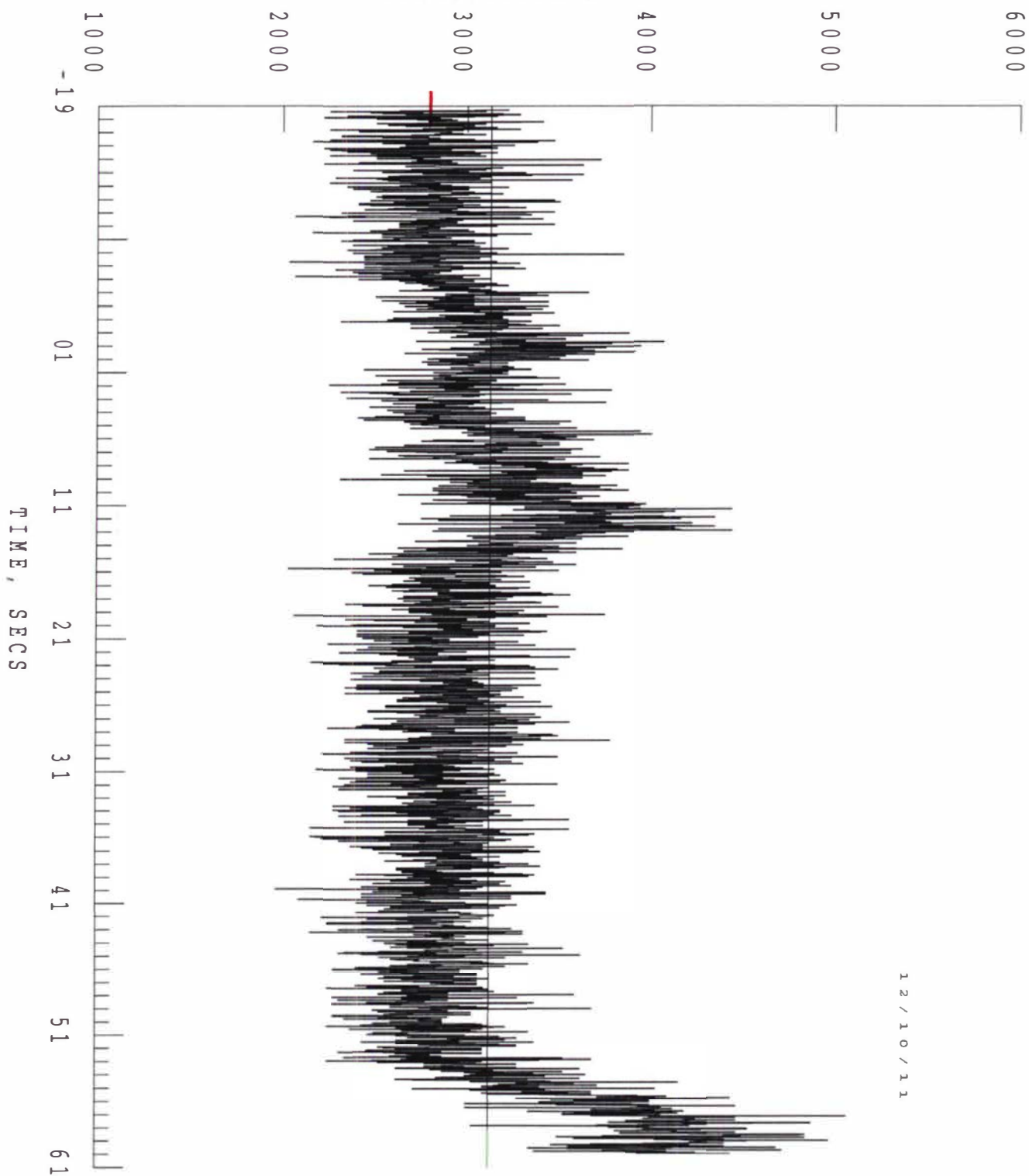
02:33:36

A

26- 293 keV

69.44 10.43 3.27

COUNTS/0.032 S



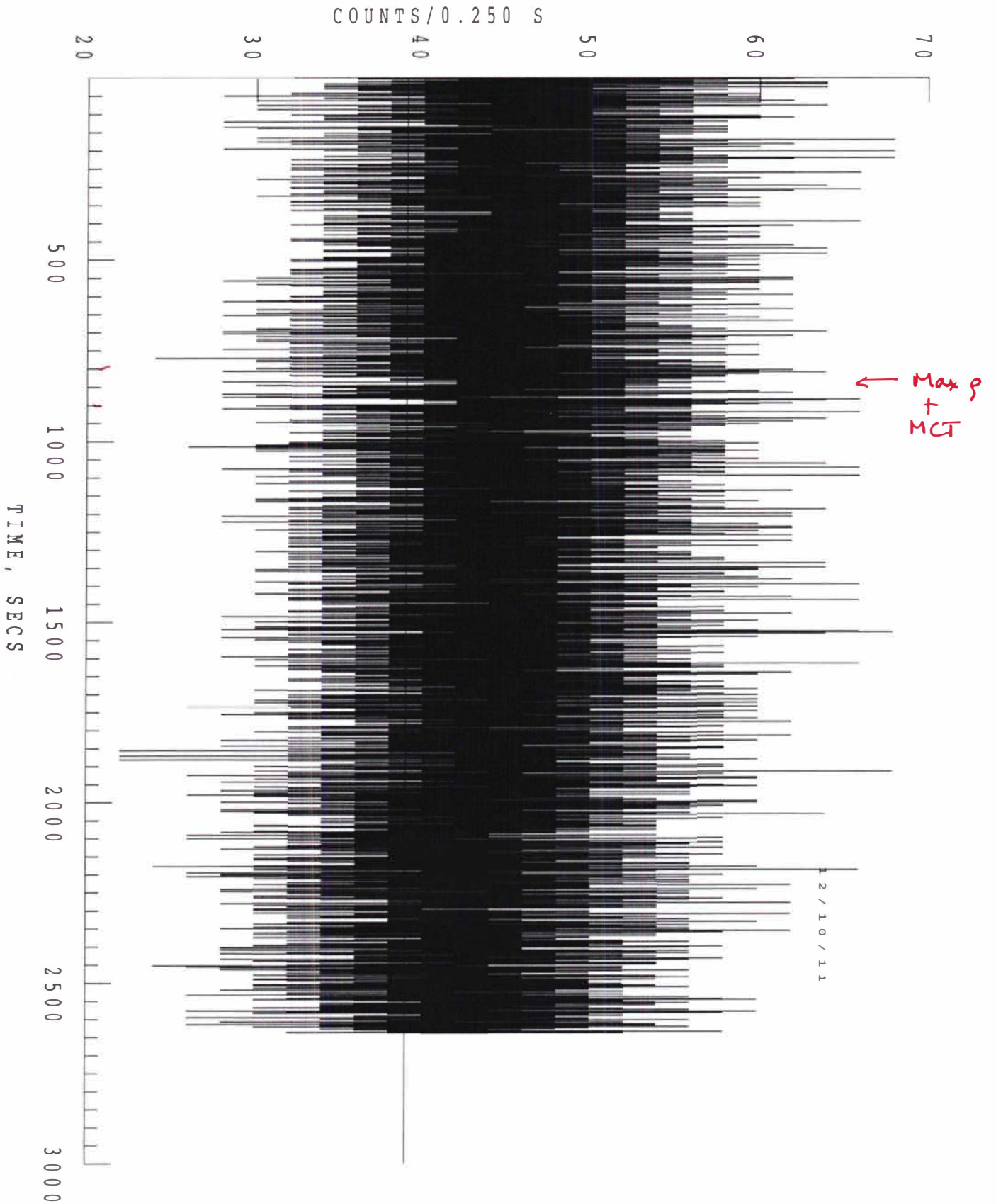
MS01

26/09/11

7873.732

A

50 - 3000 keV



A

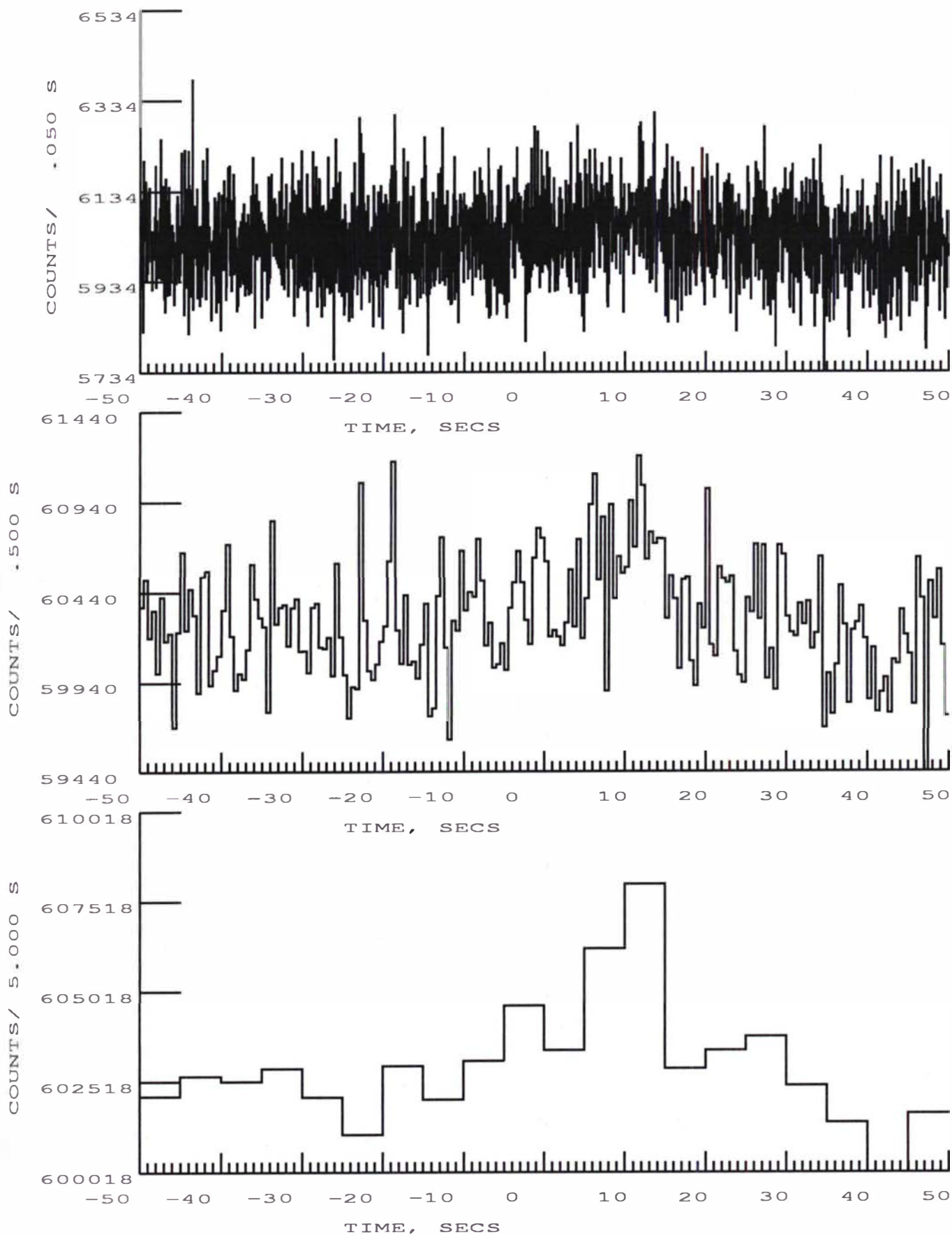
INTEGRAL

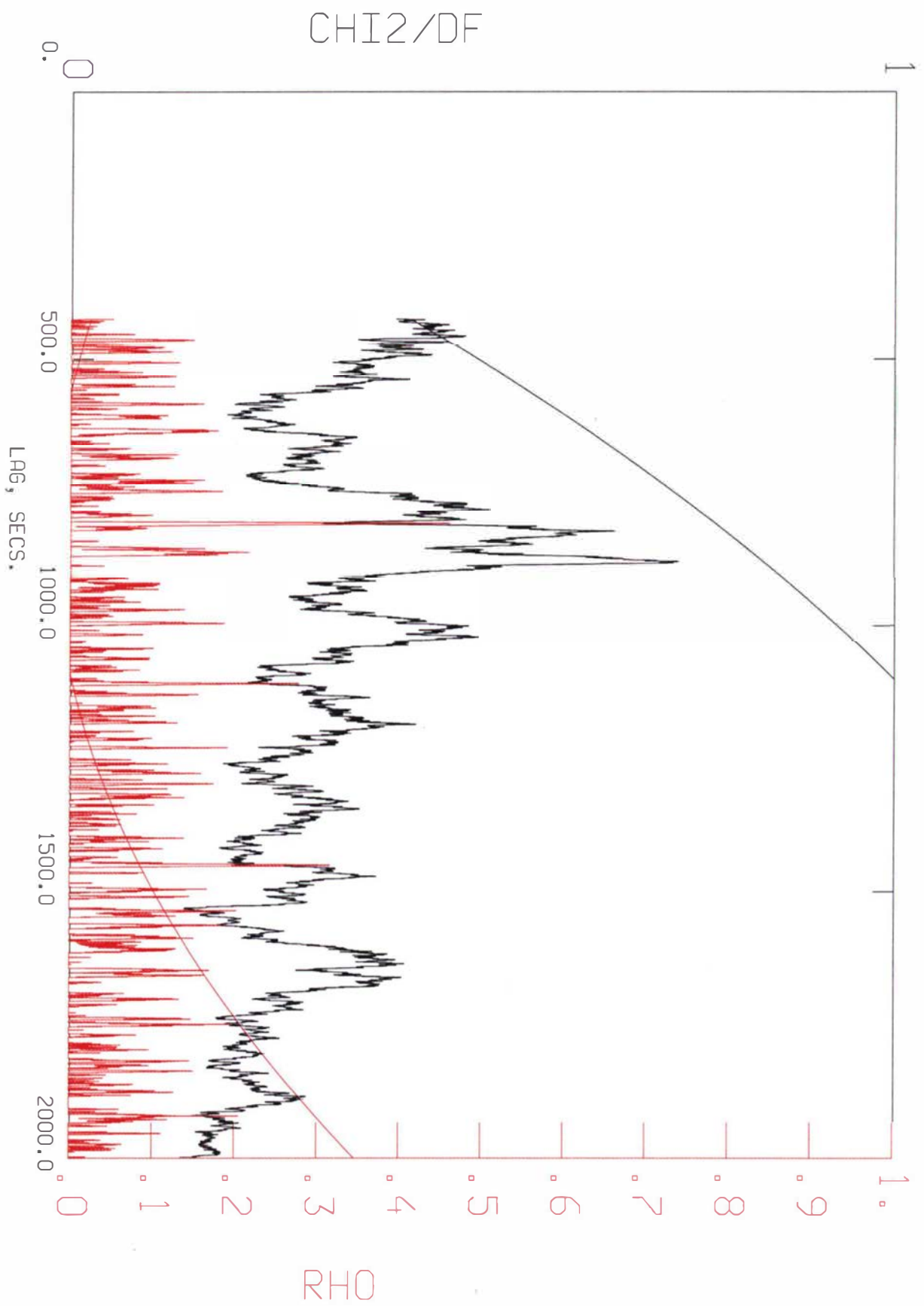
26/09/11

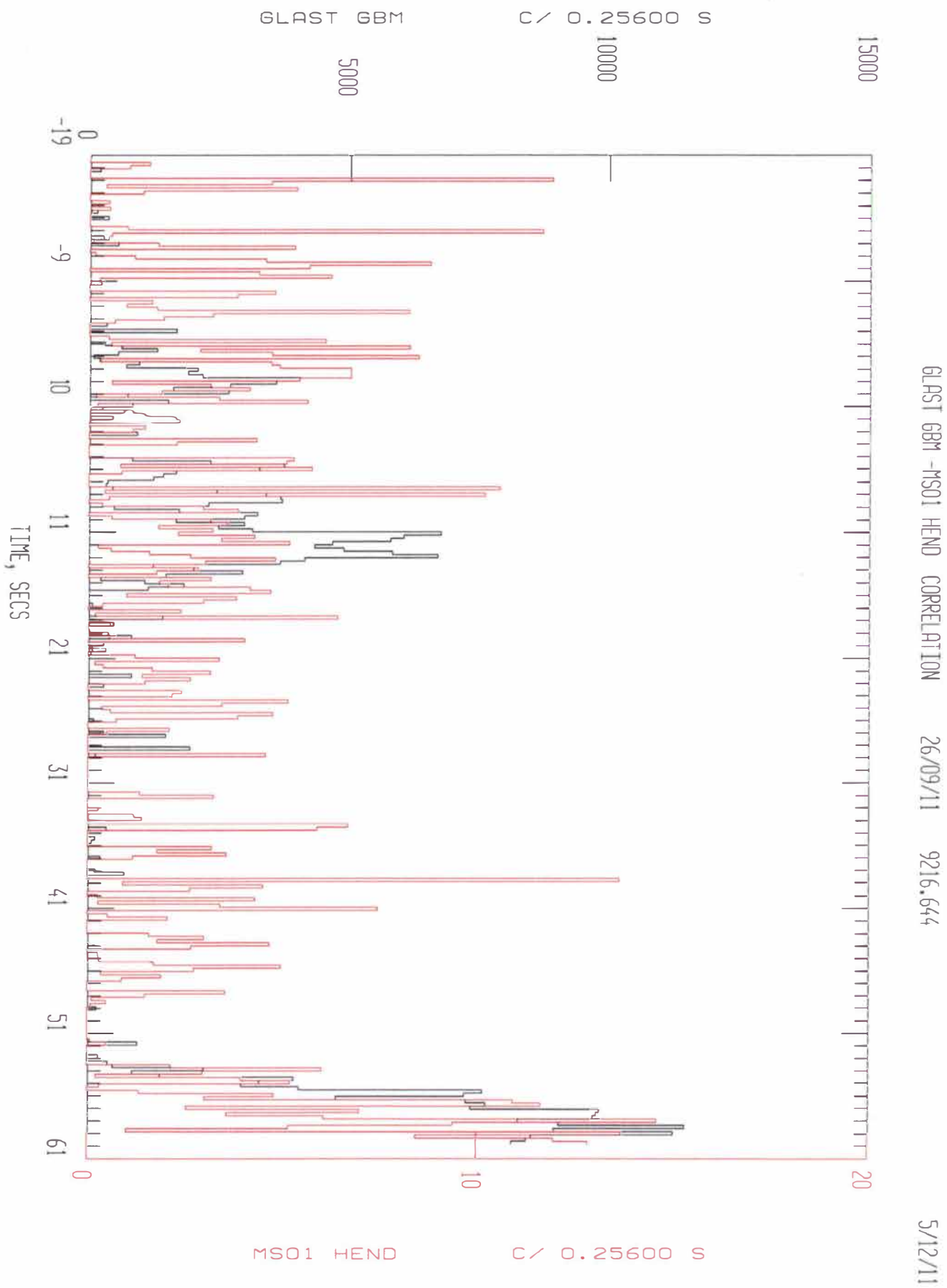
9216.000

02:33:36.0

20/01/14







From williams@gammaburst.ssl.berkeley.edu Wed Oct 12 11:27:33 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Wed, 12 Oct 2011 11:27:02 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for GLAST 20110926_09216
X-Ucb-Scan-Signature: 05c06d21215d2a205b2e6b19e84e77375146e897
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 12-Oct-2011 11:29:11.00
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 110926_0233

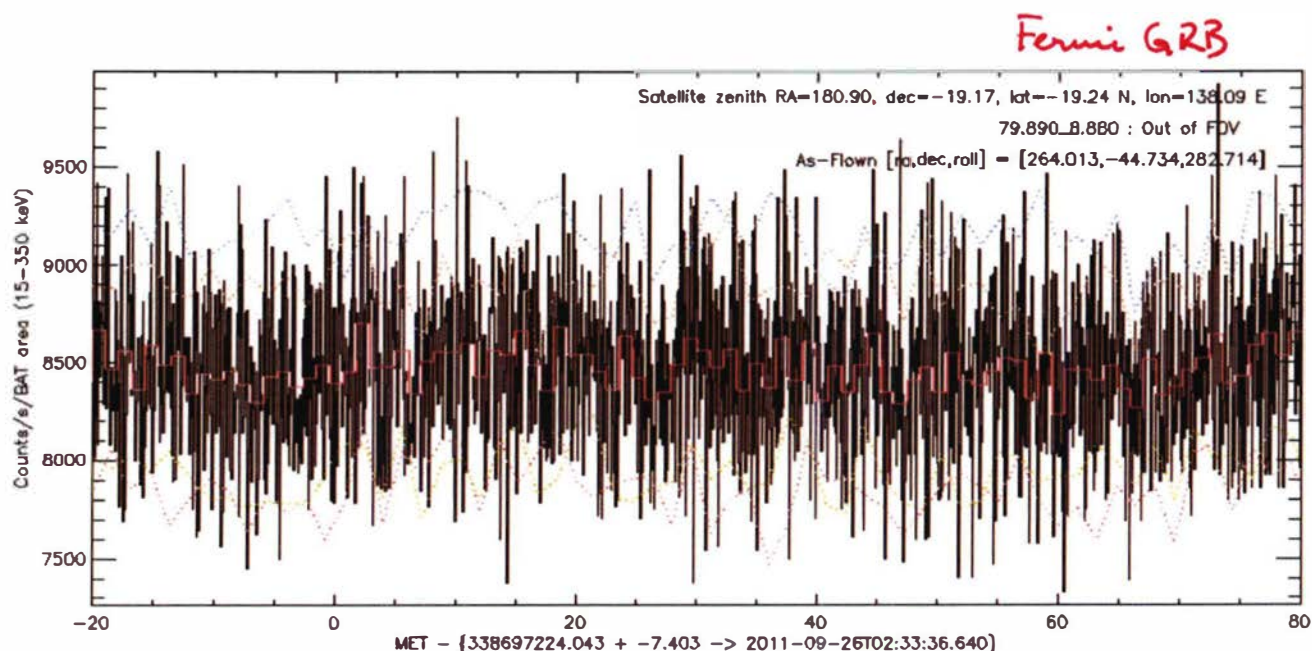
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 26 Sep 2011 01:41:27 -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/110926_0233.png



```
% /usr/local/bin/swinfo -o 338697224.043 -s 63.480_11.860
Time(MET + UTCF -> UT): 338697224.043 + -7.403 -> 2011-09-26T02:33:36.640
Swift Zenith(RA,dec): 180.90, -19.17
Swift Location(lon,lat,alt): 138.09 E, -19.24 N, 577 km
Obs Sequence Number: 00032072023
Obs Target Name: IGR J1736.1-4441
Obs Date and Times: 2011-09-26 02:29:54 - 02:40:50
Obs Pointing(ra,dec,roll): 264.013, -44.734, 282.71
63.480_11.860_imageloc (boresight_dist, angle): (143, 133)
63.480_11.860_exposure (cm^2 cos adjusted): 0
63.480_11.860_altitude: -6 (down)
```

```
% /usr/local/bin/swinfo -o 338697224.043 -s 63.730_8.830
Time(MET + UTCF -> UT): 338697224.043 + -7.403 -> 2011-09-26T02:33:36.640
Swift Zenith(RA,dec): 180.90, -19.17
Swift Location(lon,lat,alt): 138.09 E, -19.24 N, 577 km
Obs Sequence Number: 00032072023
Obs Target Name: IGR J1736.1-4441
Obs Date and Times: 2011-09-26 02:29:54 - 02:40:50
Obs Pointing(ra,dec,roll): 264.013, -44.734, 282.71
63.730_8.830_imageloc (boresight_dist, angle): (140, 135)
63.730_8.830_exposure (cm^2 cos adjusted): 0
63.730_8.830_altitude: -5 (down)
```

```
% /usr/local/bin/swinfo -o 338697224.043 -s 69.090_6.370
Time(MET + UTCF -> UT): 338697224.043 + -7.403 -> 2011-09-26T02:33:36.640
Swift Zenith(RA,dec): 180.90, -19.17
Swift Location(lon,lat,alt): 138.09 E, -19.24 N, 577 km
Obs Sequence Number: 00032072023
Obs Target Name: IGR J1736.1-4441
Obs Date and Times: 2011-09-26 02:29:54 - 02:40:50
Obs Pointing(ra,dec,roll): 264.013, -44.734, 282.71
69.090_6.370_imageloc (boresight_dist, angle): (139, 144)
69.090_6.370_exposure (cm^2 cos adjusted): 0
69.090_6.370_altitude: 1 (attenuated by atmosphere at 41 km)
```

```
% /usr/local/bin/swinfo -o 338697224.043 -s 70.650_13.183
Time(MET + UTCF -> UT): 338697224.043 + -7.403 -> 2011-09-26T02:33:36.640
Swift Zenith(RA,dec): 180.90, -19.17
```

```
Swift Location(lon,lat,alt): 138.09 E, -19.24 N, 577 km
Obs Sequence Number: 00032072023
Obs Target Name: IGR J1736.1-4441
Obs Date and Times: 2011-09-26 02:29:54 - 02:40:50
Obs Pointing(ra,dec,roll): 264.013, -44.734, 282.71
70.650_13.183_imageloc (boresight_dist, angle): (146, 143)
70.650_13.183_exposure (cm² cos adjusted): 0
70.650_13.183_altitude: 0 (attenuated by atmosphere at 17 km)

% /usr/local/bin/swinfo -o 338697224.043 -s 72.617_20.650
Time(MET + UTCF -> UT): 338697224.043 + -7.403 -> 2011-09-26T02:33:36.640
Swift Zenith(RA,dec): 180.90, -19.17
Swift Location(lon,lat,alt): 138.09 E, -19.24 N, 577 km
Obs Sequence Number: 00032072023
Obs Target Name: IGR J1736.1-4441
Obs Date and Times: 2011-09-26 02:29:54 - 02:40:50
Obs Pointing(ra,dec,roll): 264.013, -44.734, 282.71
72.617_20.650_imageloc (boresight_dist, angle): (154, 142)
72.617_20.650_exposure (cm² cos adjusted): 0
72.617_20.650_altitude: 0 (attenuated by atmosphere at 17 km)

% /usr/local/bin/swinfo -o 338697224.043 -s 74.500_15.317
Time(MET + UTCF -> UT): 338697224.043 + -7.403 -> 2011-09-26T02:33:36.640
Swift Zenith(RA,dec): 180.90, -19.17
Swift Location(lon,lat,alt): 138.09 E, -19.24 N, 577 km
Obs Sequence Number: 00032072023
Obs Target Name: IGR J1736.1-4441
Obs Date and Times: 2011-09-26 02:29:54 - 02:40:50
Obs Pointing(ra,dec,roll): 264.013, -44.734, 282.71
74.500_15.317_imageloc (boresight_dist, angle): (150, 149)
74.500_15.317_exposure (cm² cos adjusted): 0
74.500_15.317_altitude: 3 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 338697224.043 -s 77.000_7.070
Time(MET + UTCF -> UT): 338697224.043 + -7.403 -> 2011-09-26T02:33:36.640
Swift Zenith(RA,dec): 180.90, -19.17
Swift Location(lon,lat,alt): 138.09 E, -19.24 N, 577 km
Obs Sequence Number: 00032072023
Obs Target Name: IGR J1736.1-4441
Obs Date and Times: 2011-09-26 02:29:54 - 02:40:50
Obs Pointing(ra,dec,roll): 264.013, -44.734, 282.71
77.000_7.070_imageloc (boresight_dist, angle): (142, 156)
77.000_7.070_exposure (cm² cos adjusted): 0
77.000_7.070_altitude: 8 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 338697224.043 -s 78.283_12.550
Time(MET + UTCF -> UT): 338697224.043 + -7.403 -> 2011-09-26T02:33:36.640
Swift Zenith(RA,dec): 180.90, -19.17
Swift Location(lon,lat,alt): 138.09 E, -19.24 N, 577 km
Obs Sequence Number: 00032072023
Obs Target Name: IGR J1736.1-4441
Obs Date and Times: 2011-09-26 02:29:54 - 02:40:50
Obs Pointing(ra,dec,roll): 264.013, -44.734, 282.71
78.283_12.550_imageloc (boresight_dist, angle): (147, 157)
78.283_12.550_exposure (cm² cos adjusted): 0
78.283_12.550_altitude: 8 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 338697224.043 -s 79.890_8.880
Time(MET + UTCF -> UT): 338697224.043 + -7.403 -> 2011-09-26T02:33:36.640
Swift Zenith(RA,dec): 180.90, -19.17
Swift Location(lon,lat,alt): 138.09 E, -19.24 N, 577 km
Obs Sequence Number: 00032072023
Obs Target Name: IGR J1736.1-4441
Obs Date and Times: 2011-09-26 02:29:54 - 02:40:50
Obs Pointing(ra,dec,roll): 264.013, -44.734, 282.71
79.890_8.880_imageloc (boresight_dist, angle): (144, 160)
79.890_8.880_exposure (cm² cos adjusted): 0
79.890_8.880_altitude: 10 (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/110926_0233_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

/tmp/110926_0233.png

/tmp/110926_0233.png	Content-Type: image/png
	Content-Encoding: base64

A

05/12/11

MESSENGER

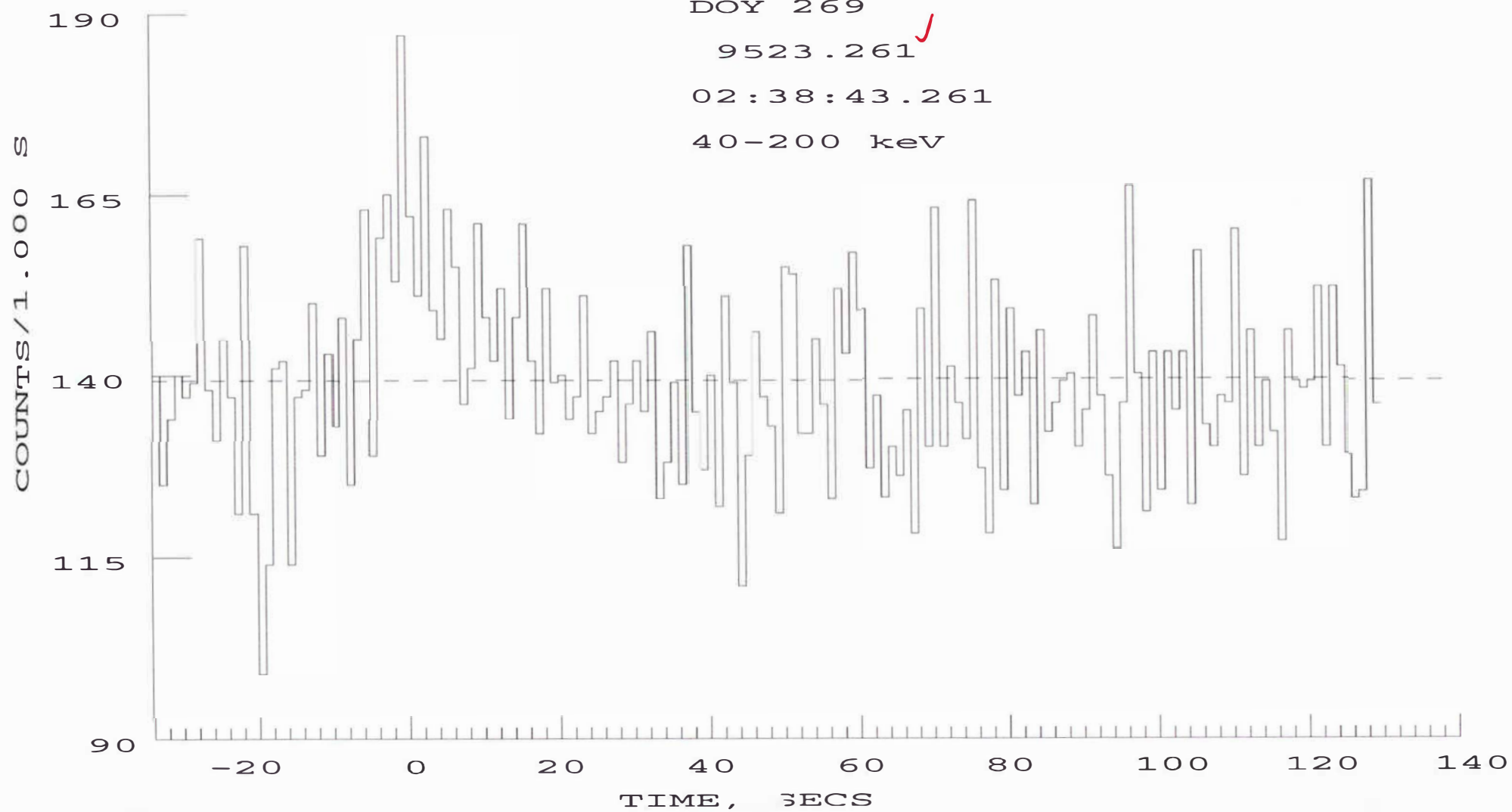
26/09/11

DOY 269

9523.261

02:38:43.261

40-200 keV



KONUS2

26/09/11

18373.838

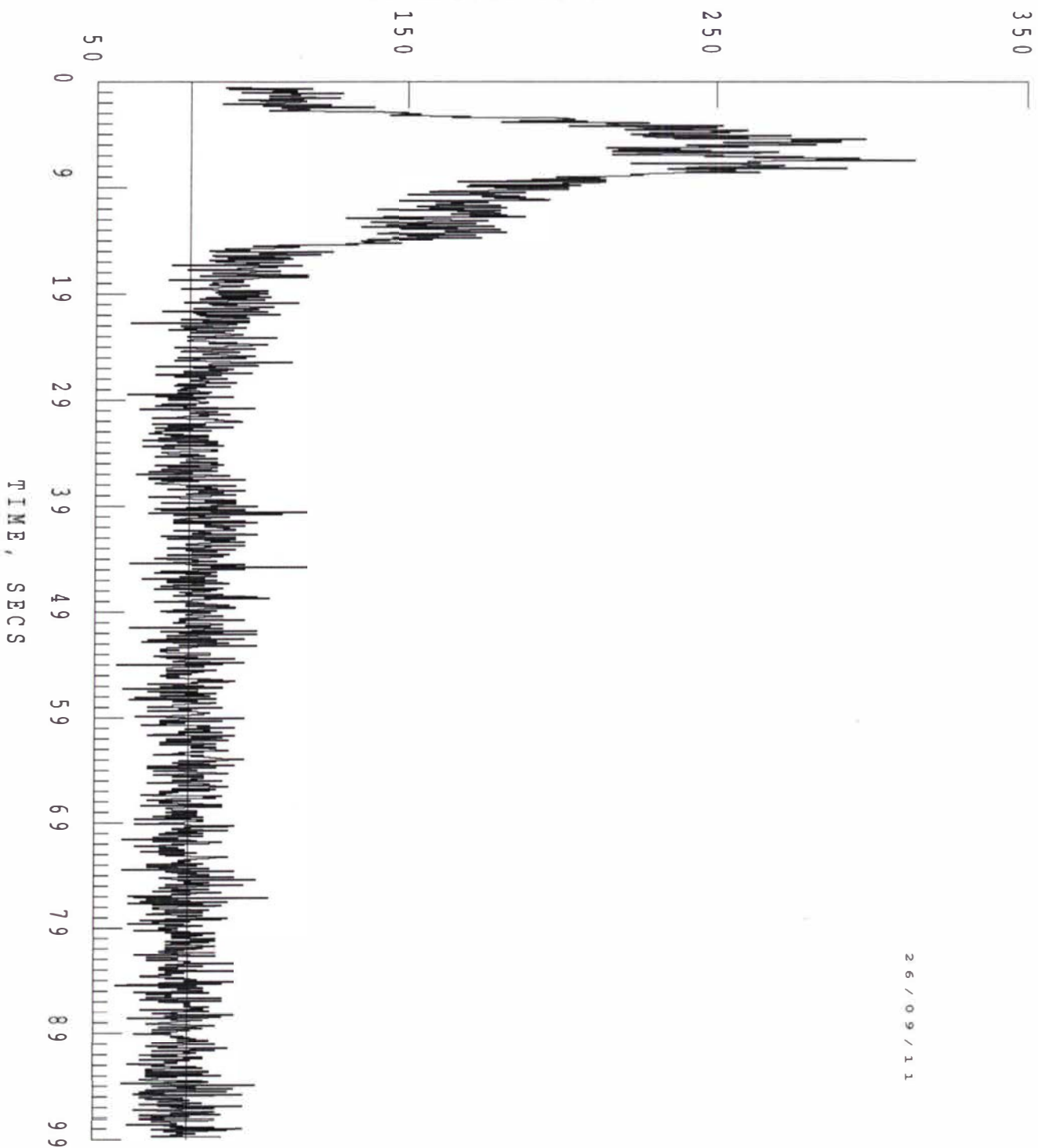
05:06:13

B

50 - 200 keV

Solar

COUNTS/0.064 S



B

KONUS HRES 20110926 18373

TRIGGER TIME: 26/09/11 DOY 269 Julian 2455831.71265 UT = 05.104 05:06:13 (18373.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

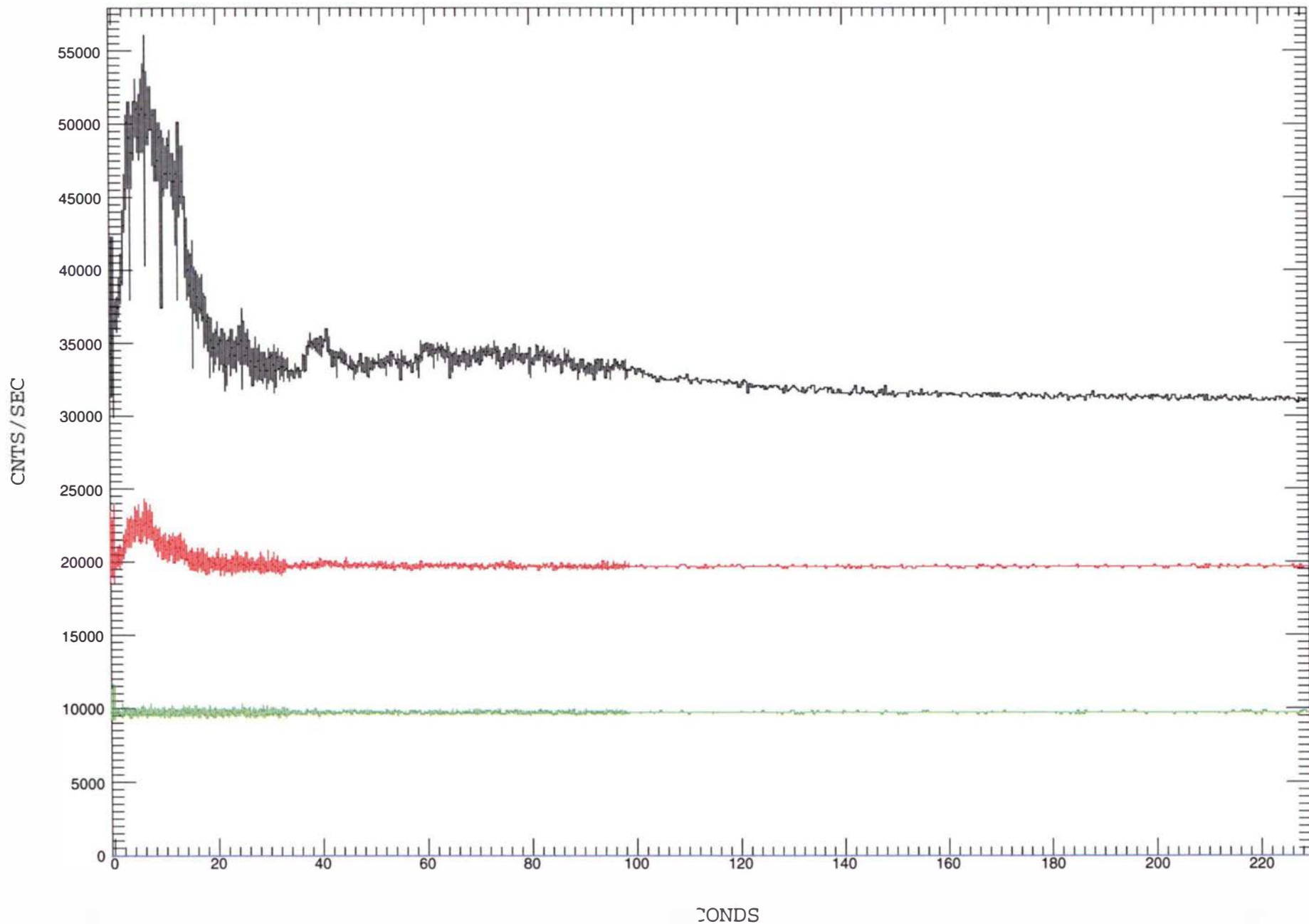
Chan 4 : [> 10 MeV]

Channel 1 + 27900

Channel 2 + 18600

Channel 3 + 9300

Channel 4 + 0



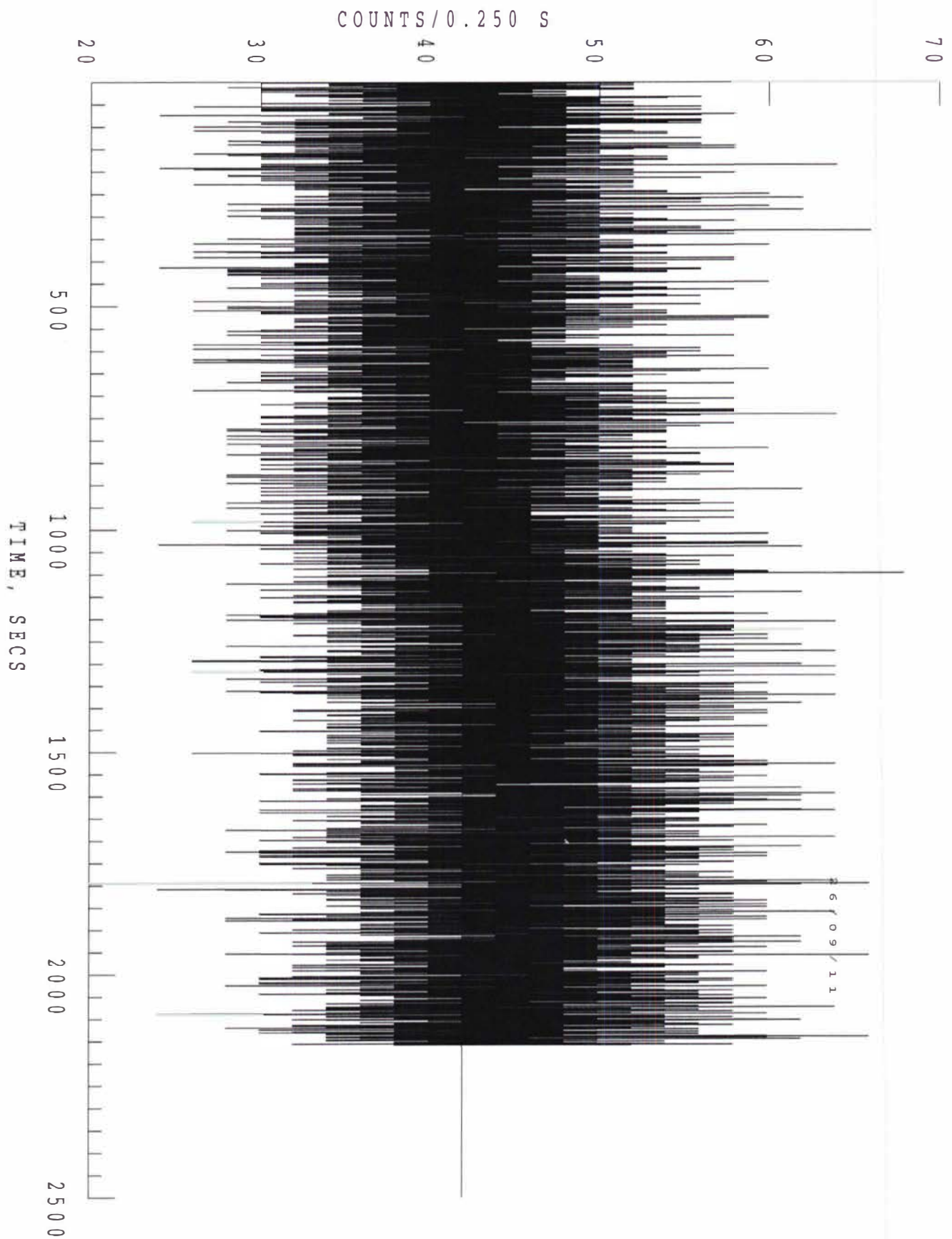
B

MS01

26/09/11

17053.581

50 - 3000 keV



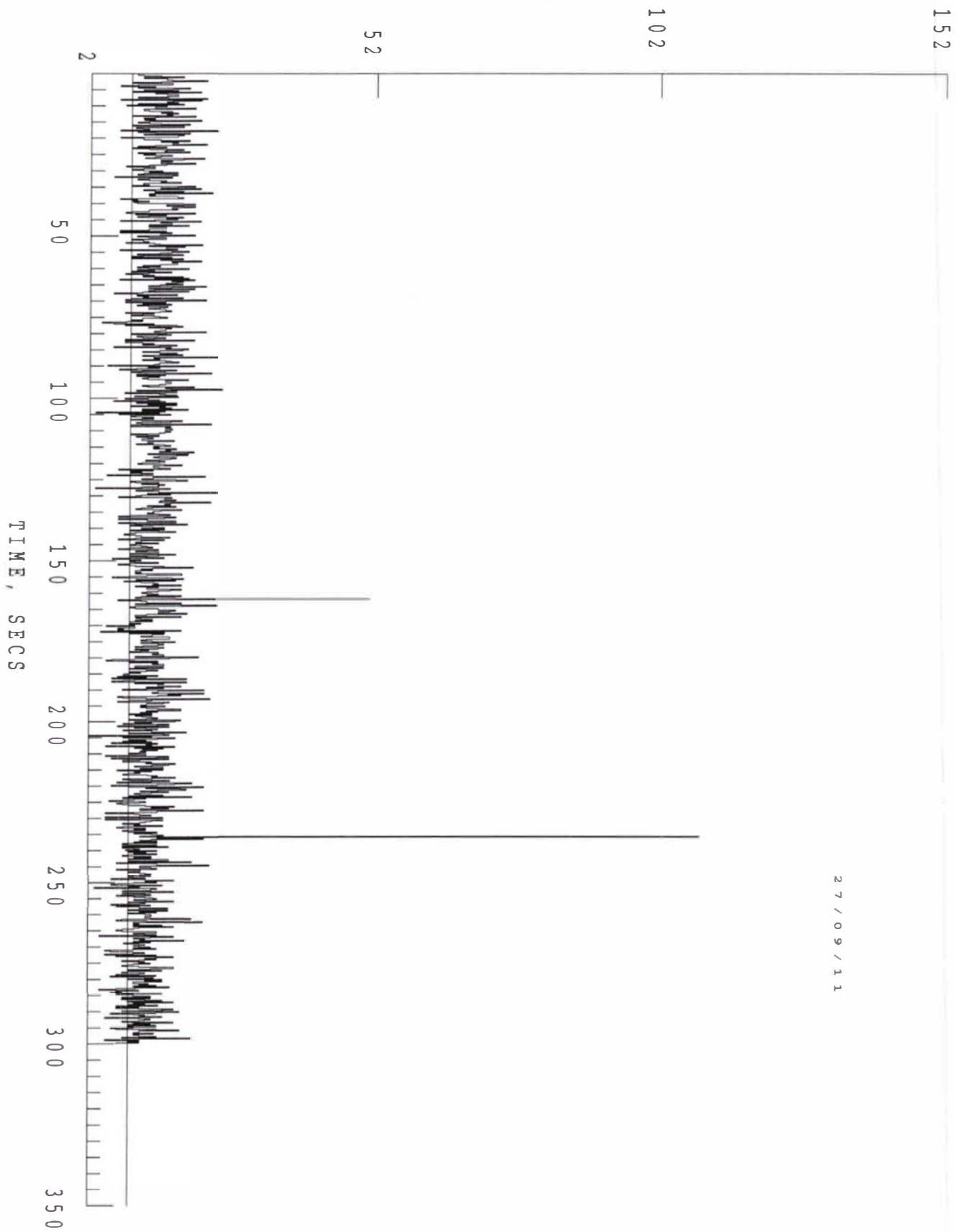
HESSI

26/09/11 18223.000 (KONUS2_20110926_18373)

B

25- 150 keV

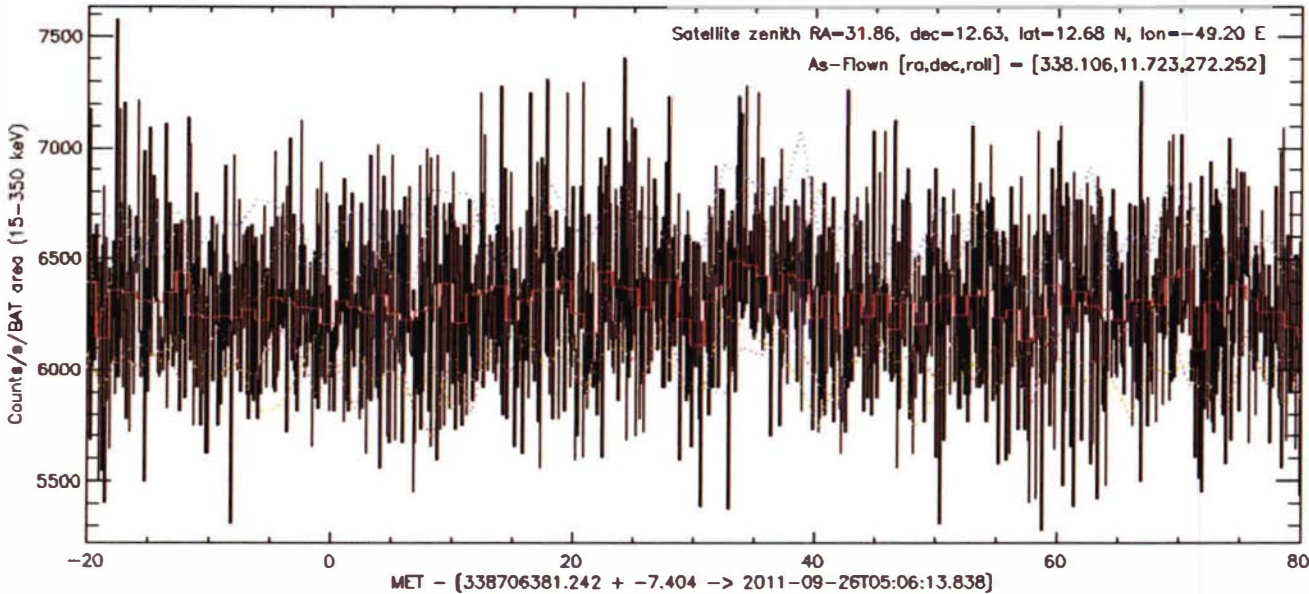
COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 110926_0506
From: palmer+automatic_lightcurve@lanl.gov
Date: Mon, 26 Sep 2011 05:15:48 -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/110926_0506.png



```
% /usr/local/bin/swinfo -o 338706381.242
Time(MET + UTCF -> UT): 338706381.242 + -7.404 -> 2011-09-26T05:06:13.838
Swift Zenith(RA,dec): 31.86, 12.63
Swift Location(lon,lat,alt): -49.20 E, 12.68 N, 591 km
Obs Sequence Number: 00091094010
Obs Target Name: CTA102
Obs Date and Times: 2011-09-26 04:59:54 - 05:13:53
Obs Pointing(ra,dec,roll): 338.106, 11.723, 272.25
```

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

/tmp/110926_0506_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110926_0506.png

/tmp/110926_0506.png	Content-Type: image/png Content-Encoding: base64
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Part 1.4	Content-Type:	text/plain
	Content-Encoding:	7bit

Part 1.5

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

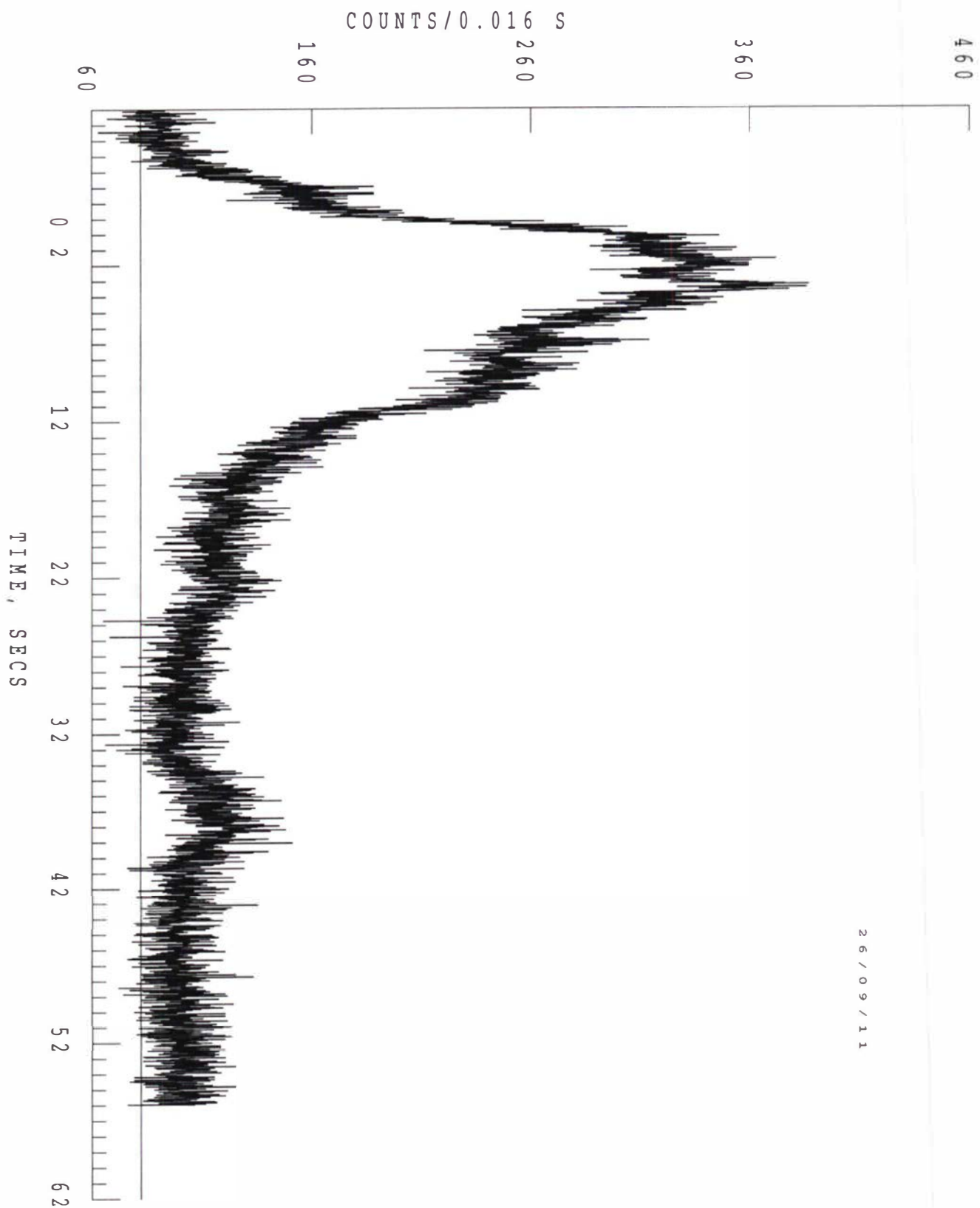
B

SUZAKU

26/09/11

18381.516

50 - 240 keV



SUZAKU

26/09/11

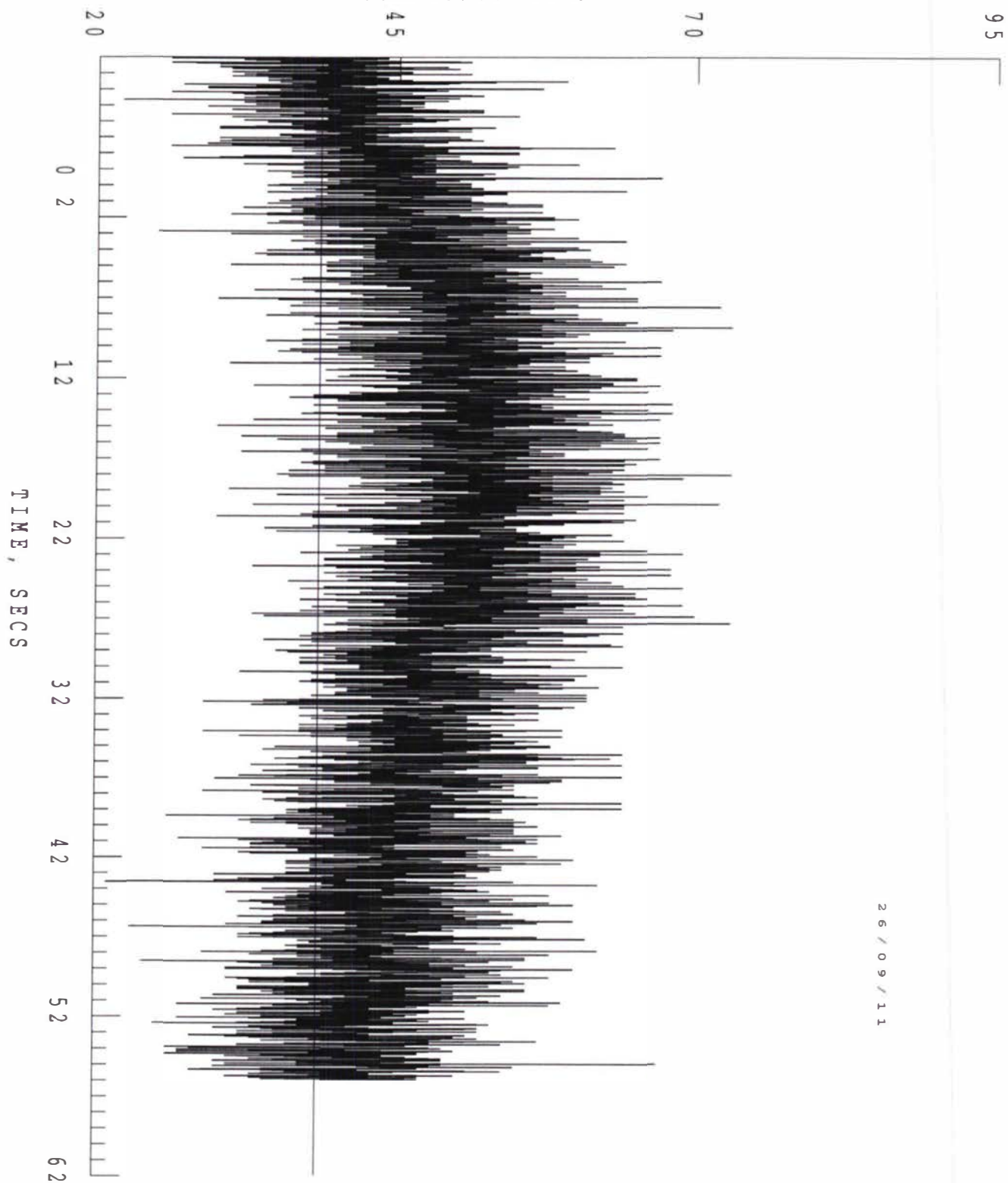
45357.512

12:35:57

C

50 - 240 keV

COUNTS/0.016 S



26 / 09 / 11

MS01

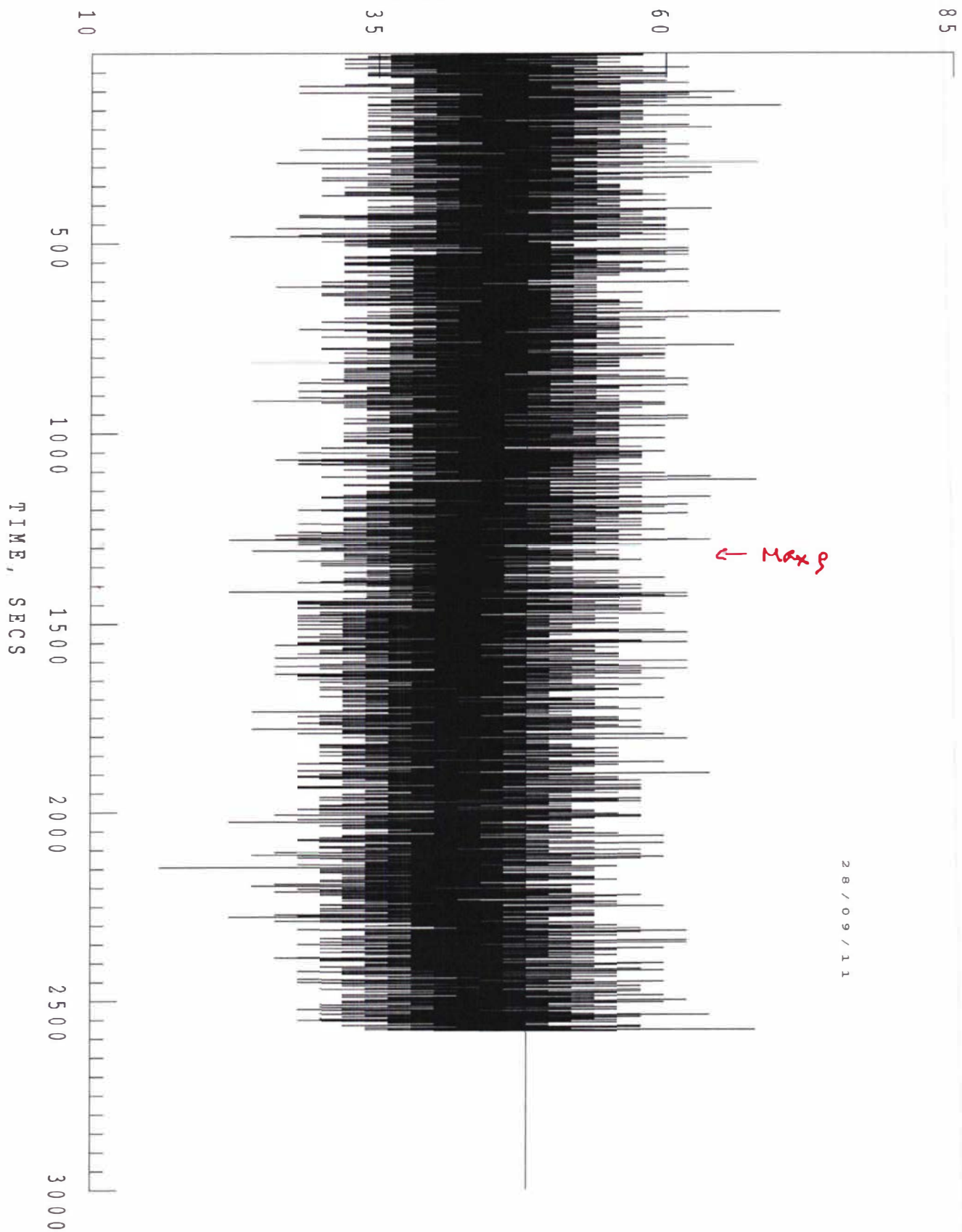
26/09/11

44053.105

50- 3000 keV

C

COUNTS/0.250 S





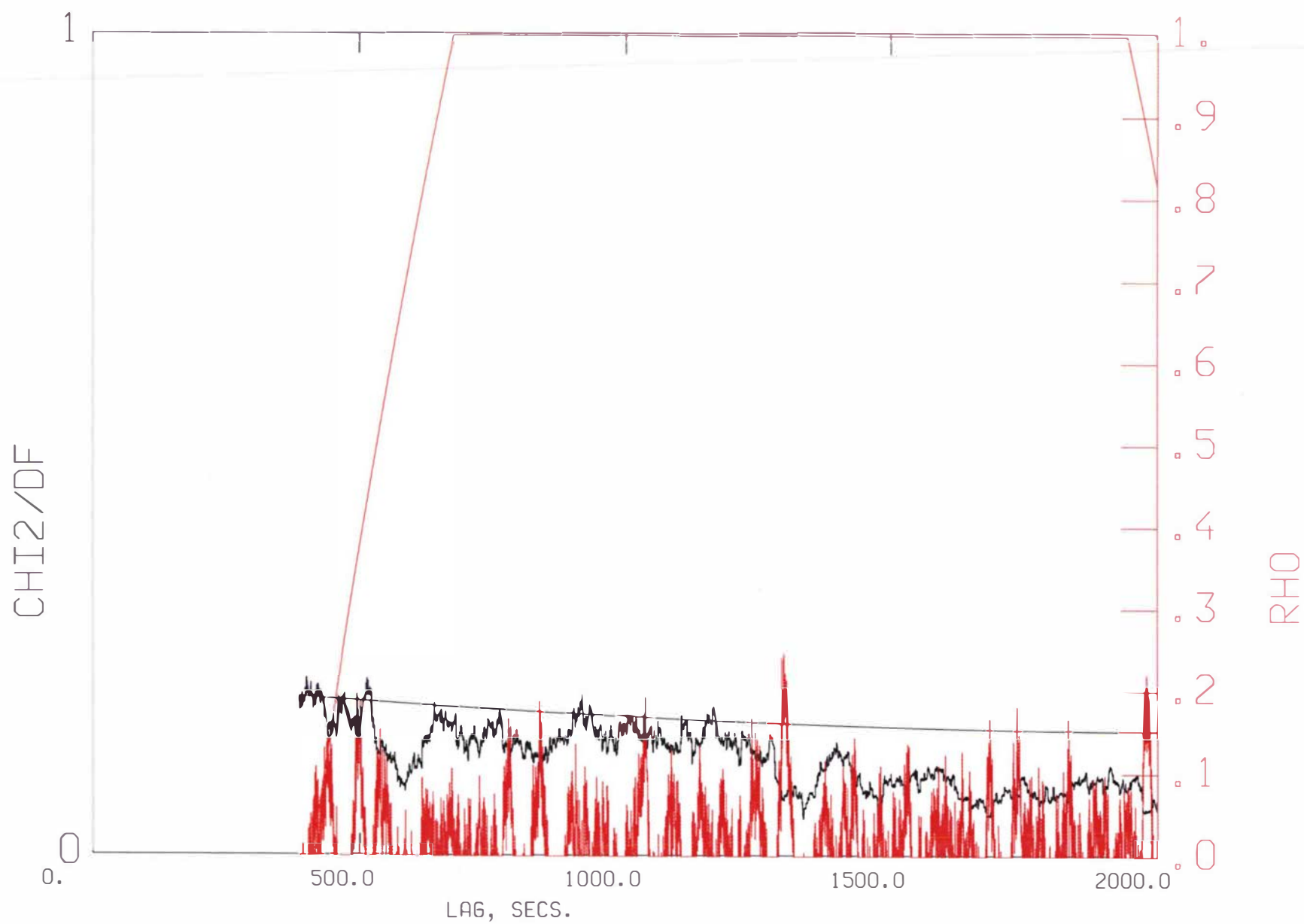
SUZAKU

-MS01 HEND CORRELATION

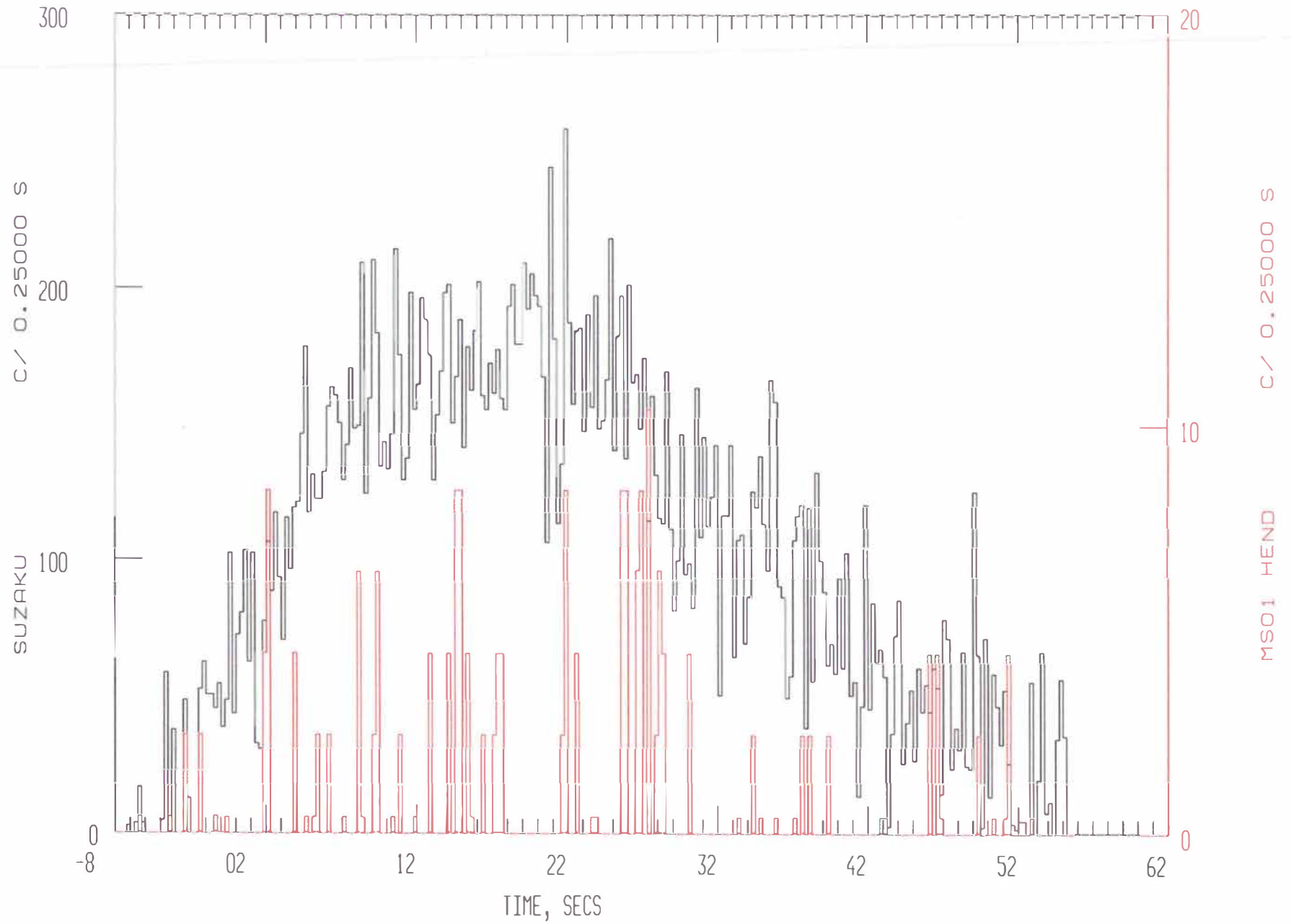
26/09/11

45357.512

5/12/11



J



C

From williams@gammaburst.ssl.berkeley.edu Tue Sep 27 13:27:43 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 27 Sep 2011 13:27:05 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI_data_for_SUZAKU_20110926_45357
X-Ucb-Scan-Signature: 9b1ce7539d44607e70d354d9dc67e4b647d73194
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-Sep-2011 13:28:49.00
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

[lpn] BAT lightcurve for trigger at 110926_1957

Subject: [lpn] BAT lightcurve for trigger at 110926_1957

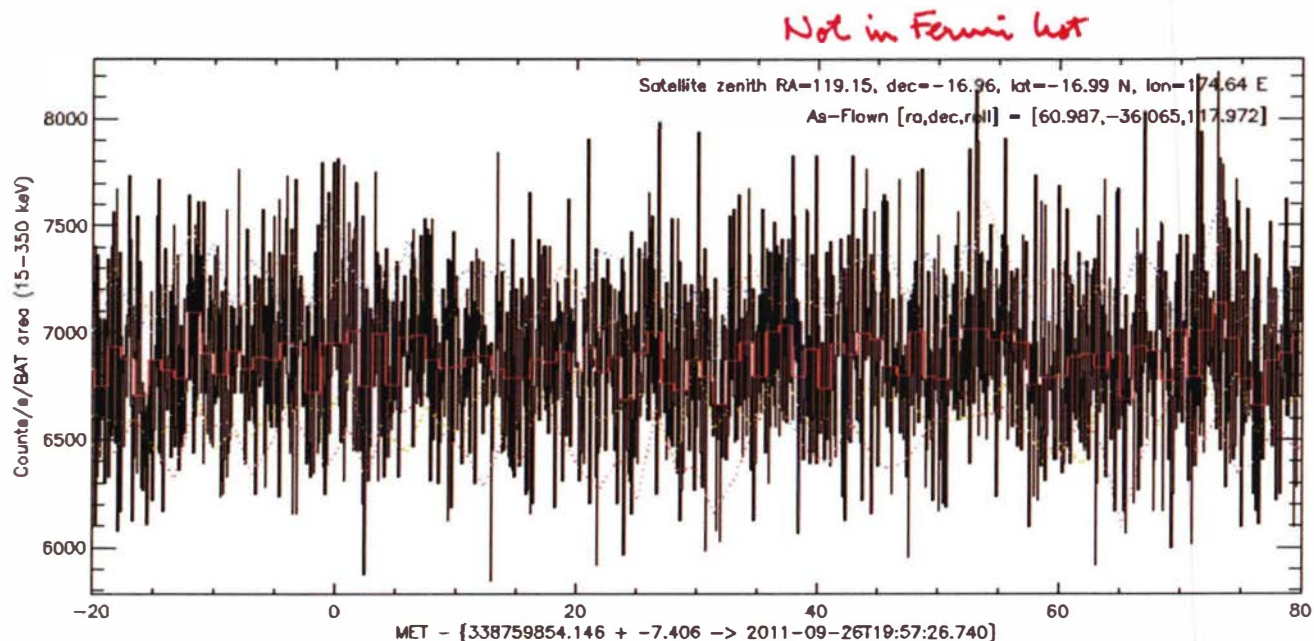
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 26 Sep 2011 19:17:19 -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

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/tmp/110926_1957.png



```
% /usr/local/bin/swinfo -o 338759854.146
Time(MET + UTC -> UT):      338759854.146 + -7.406 -> 2011-09-26T19:57:26.740
Swift Zenith(RA,dec):       119.15, -16.96
Swift Location(lon,lat,alt): 174.64 E, -16.99 N, 583 km
Obs Sequence Number:        00036504009
Obs Target Name:             PKS 0402-362 (MS 0402.0-3613)
Obs Date and Times:          2011-09-26 19:45:54 - 20:02:50
Obs Pointing(ra,dec,roll):   60.987, -36.065, 117.97
```

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

/tmp/110926_1957.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110926_1957_bat64ms_ipn

/tmp/110926_1957_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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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

26/09/11

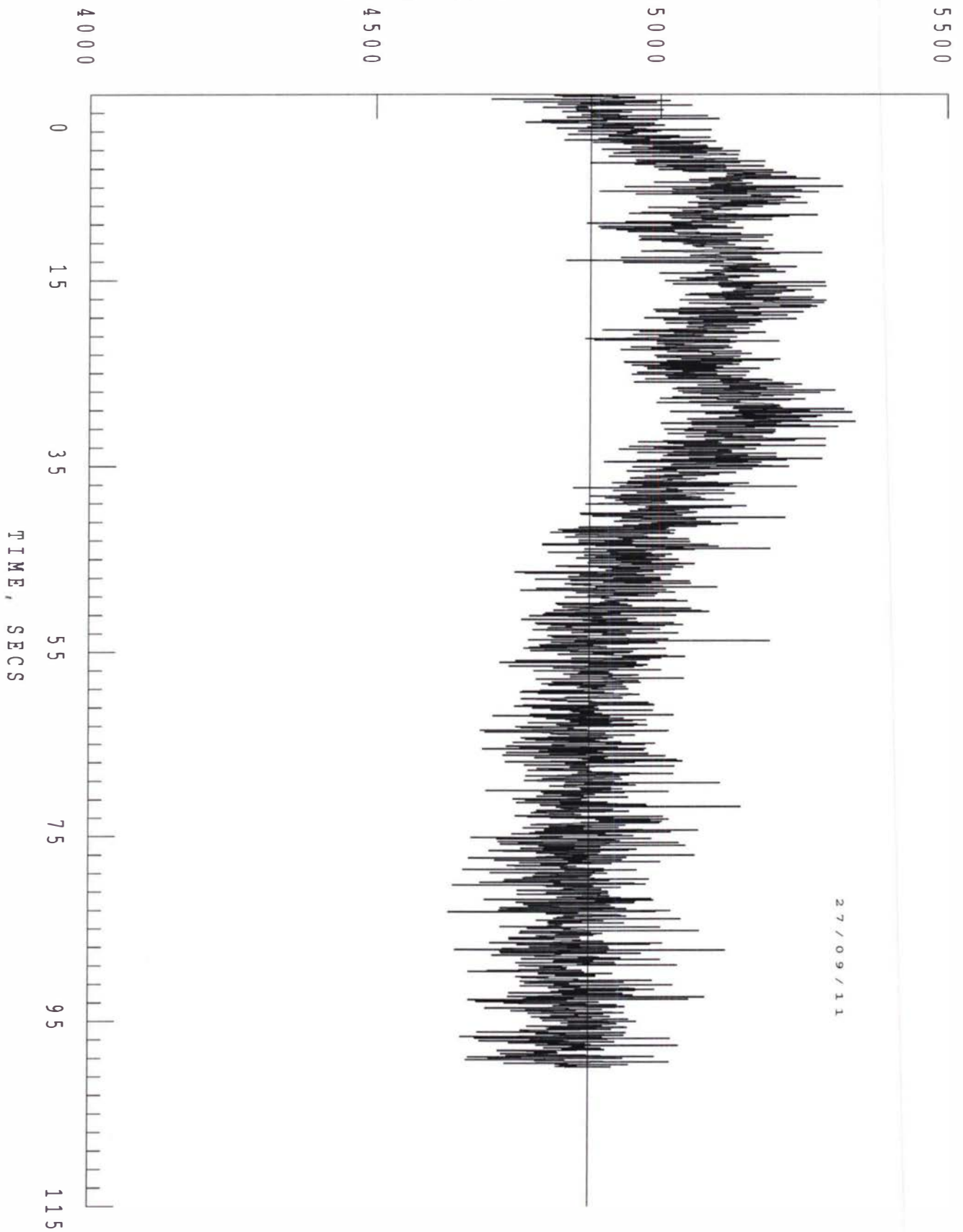
73013.916

20:16:53

D

100-10000 keV

COUNTS/0.050 S



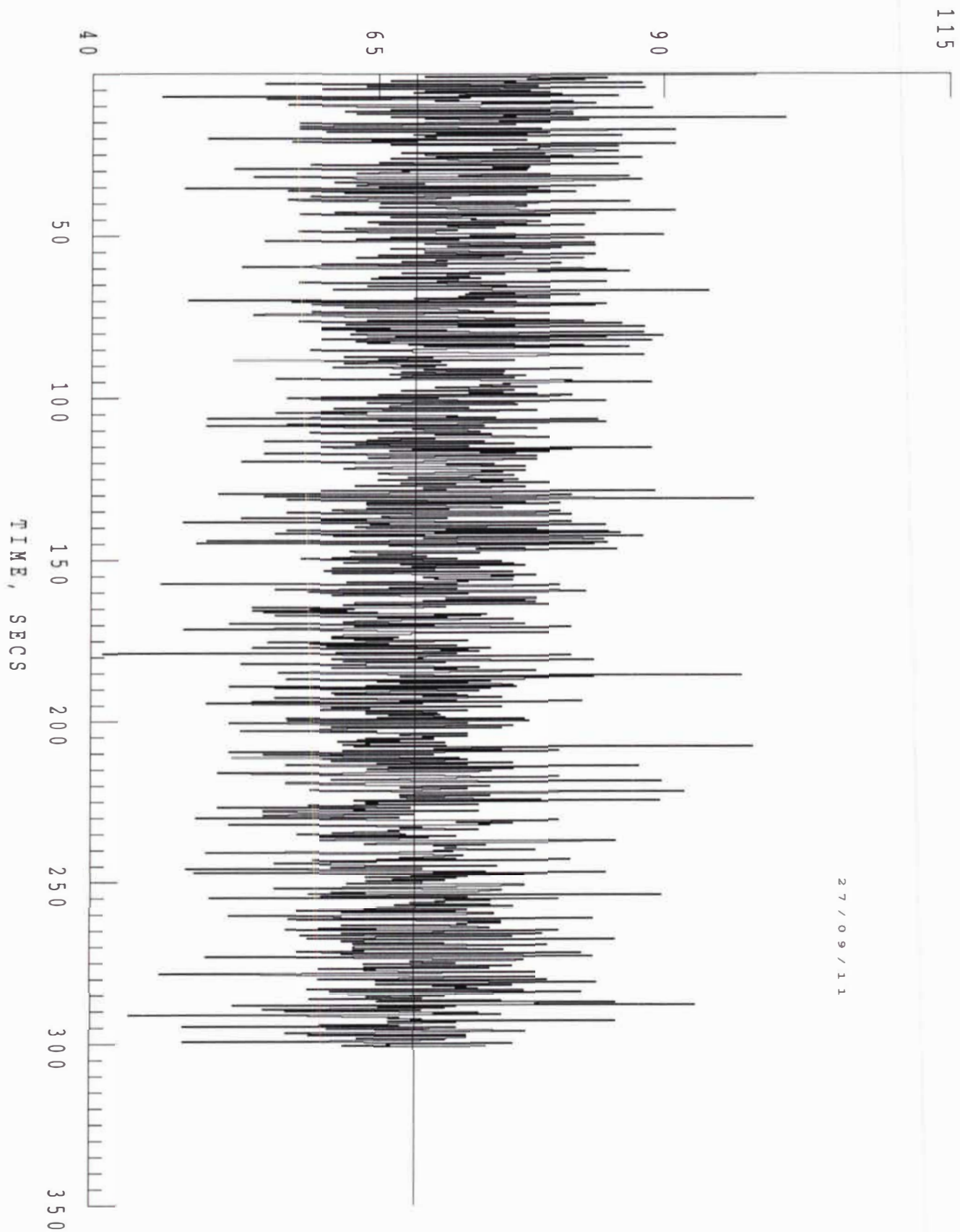
HESSI

26/09/11 72862.000 (INTEGRAL_20110926_73013)

D

25- 150 keV

COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 110926_2016

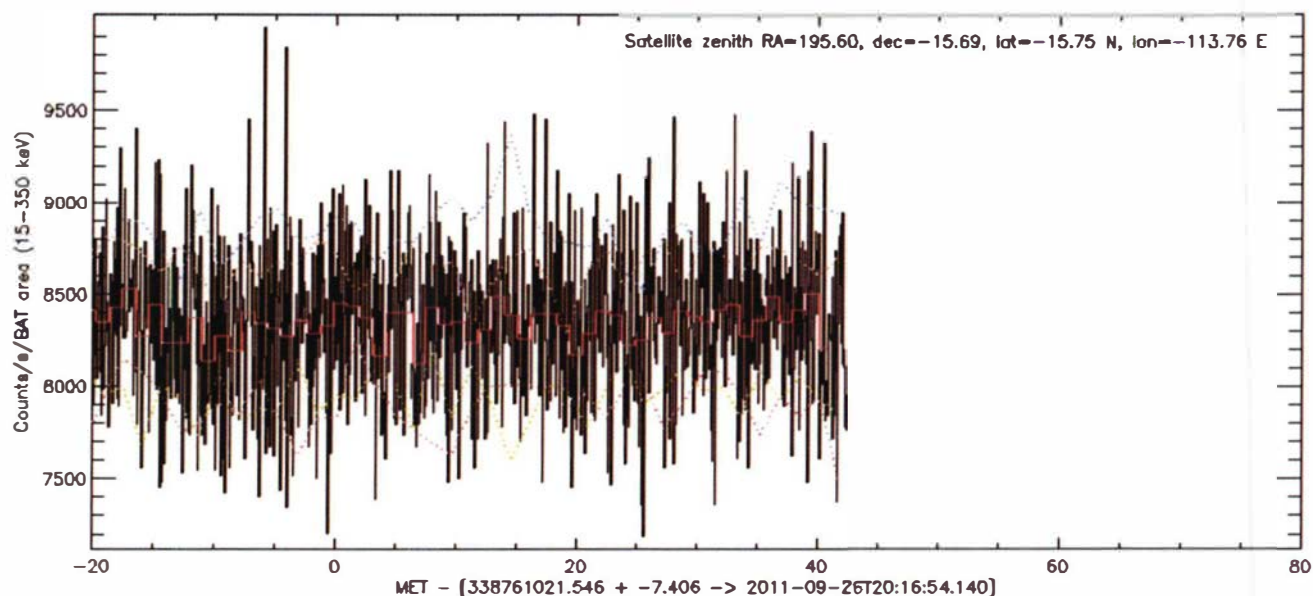
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 26 Sep 2011 19:17:20 -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

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/tmp/110926_2016.png



```
% /usr/local/bin/swinfo -o 338761021.546
Time(MET + UTCF -> UT):      338761021.546 + -7.406 -> 2011-09-26T20:16:54.140
Swift Zenith(RA,dec):        195.60, -15.69
Swift Location(lon,lat,alt):  -113.76 E, -15.75 N, 577 km
```

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

/tmp/110926_2016.png

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

/tmp/110926_2016_bat64ms_ipn

/tmp/110926_2016_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

1

Subject: [lbn] BAT lightcurve for trigger at 110926_2030

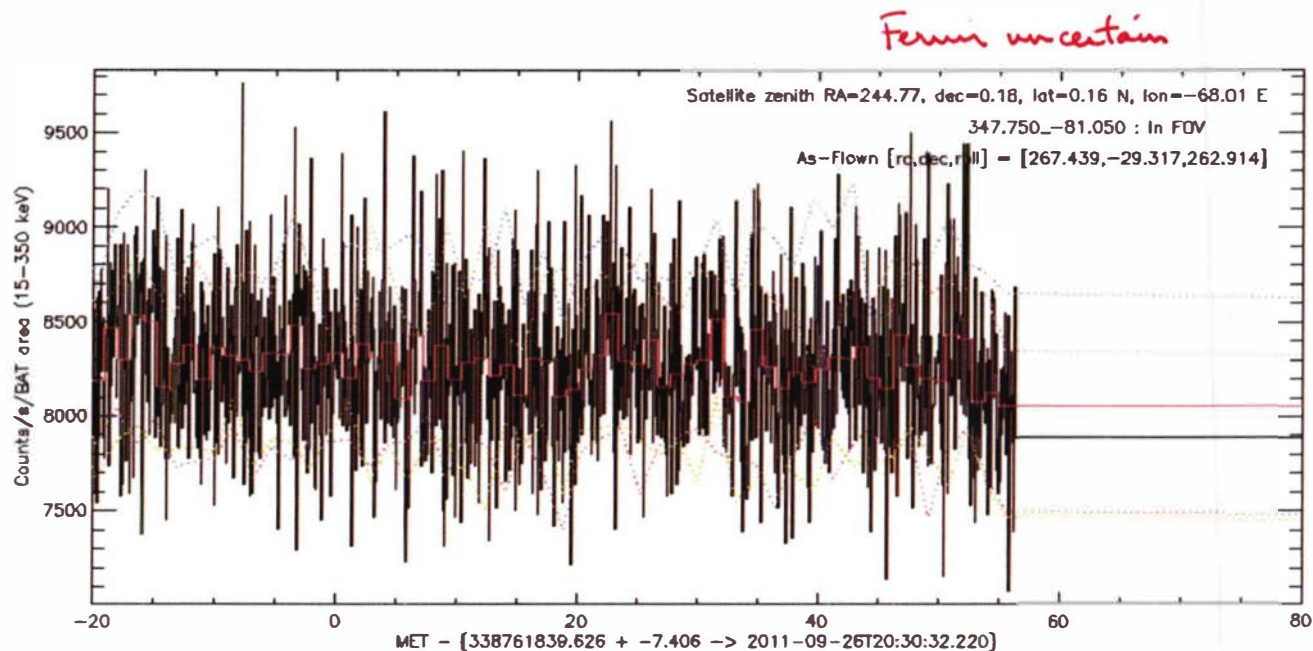
From: palmer+automatic_lightcurve@lanl.gov

Date: Mon, 26 Sep 2011 21:21:01 -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/110926_2030.png



```
% /usr/local/bin/swinfo -o 338761839.626 -s 300.450_-51.967
Time(MET + UTCF -> UT): 338761839.626 + -7.406 -> 2011-09-26T20:30:32.220
Swift Zenith(RA,dec): 244.77, 0.18
Swift Location(lon,lat,alt): -68.01 E, 0.16 N, 580 km
Obs Sequence Number: 00032099032
Obs Target Name: IGR J17498-2921
Obs Date and Times: 2011-09-26 20:24:54 - 20:54:50
Obs Pointing(ra,dec,roll): 267.439, -29.317, 262.91
300.450_-51.967_imageloc (boresight_dist, angle): (33, 149)
300.450_-51.967_exposure (cm^2 cos adjusted): 2562
300.450_-51.967_altitude: 44 (up)
```

```
% /usr/local/bin/swinfo -o 338761839.626 -s 344.083_-80.550
Time(MET + UTCF -> UT): 338761839.626 + -7.406 -> 2011-09-26T20:30:32.220
Swift Zenith(RA,dec): 244.77, 0.18
Swift Location(lon,lat,alt): -68.01 E, 0.16 N, 580 km
Obs Sequence Number: 00032099032
Obs Target Name: IGR J17498-2921
Obs Date and Times: 2011-09-26 20:24:54 - 20:54:50
Obs Pointing(ra,dec,roll): 267.439, -29.317, 262.91
344.083_-80.550_imageloc (boresight_dist, angle): (59, 176)
344.083_-80.550_exposure (cm^2 cos adjusted): 143
344.083_-80.550_altitude: 22 (depressed but unattenuated)
```

```
% /usr/local/bin/swinfo -o 338761839.626 -s 345.667_-80.767
Time(MET + UTCF -> UT): 338761839.626 + -7.406 -> 2011-09-26T20:30:32.220
Swift Zenith(RA,dec): 244.77, 0.18
Swift Location(lon,lat,alt): -68.01 E, 0.16 N, 580 km
Obs Sequence Number: 00032099032
Obs Target Name: IGR J17498-2921
Obs Date and Times: 2011-09-26 20:24:54 - 20:54:50
Obs Pointing(ra,dec,roll): 267.439, -29.317, 262.91
345.667_-80.767_imageloc (boresight_dist, angle): (59, 177)
345.667_-80.767_exposure (cm^2 cos adjusted): 124
345.667_-80.767_altitude: 22 (depressed but unattenuated)
```

```
% /usr/local/bin/swinfo -o 338761839.626 -s 346.467_-80.883
Time(MET + UTCF -> UT): 338761839.626 + -7.406 -> 2011-09-26T20:30:32.220
Swift Zenith(RA,dec): 244.77, 0.18
```

[ipn] BAT lightcurve for trigger at 110926_2030

```
Swift Location(lon,lat,alt): -68.01 E, 0.16 N, 580 km
Obs Sequence Number: 00032099032
Obs Target Name: IGR J17498-2921
Obs Date and Times: 2011-09-26 20:24:54 - 20:54:50
Obs Pointing(ra,dec,roll): 267.439, -29.317, 262.91
346.467_-80.883_imageloc (boresight_dist, angle): (59, 177)
346.467_-80.883_exposure (cm^2 cos adjusted): 114
346.467_-80.883_altitude: 22 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 338761839.626 -s 347.750 -81.050
Time(MET + UTCF -> UT): 338761839.626 + -7.406 -> 2011-09-26T20:30:32.220
Swift Zenith(RA,dec): 244.77, 0.18
Swift Location(lon,lat,alt): -68.01 E, 0.16 N, 580 km
Obs Sequence Number: 00032099032
Obs Target Name: IGR J17498-2921
Obs Date and Times: 2011-09-26 20:24:54 - 20:54:50
Obs Pointing(ra,dec,roll): 267.439, -29.317, 262.91
347.750_-81.050_imageloc (boresight_dist, angle): (60, 177)
347.750_-81.050_exposure (cm^2 cos adjusted): 100
347.750_-81.050_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/110926_2030.png	Content-Type: image/png
	Content-Encoding: base64

/tmp/110926_2030_bat64ms_ipn

/tmp/110926_2030_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

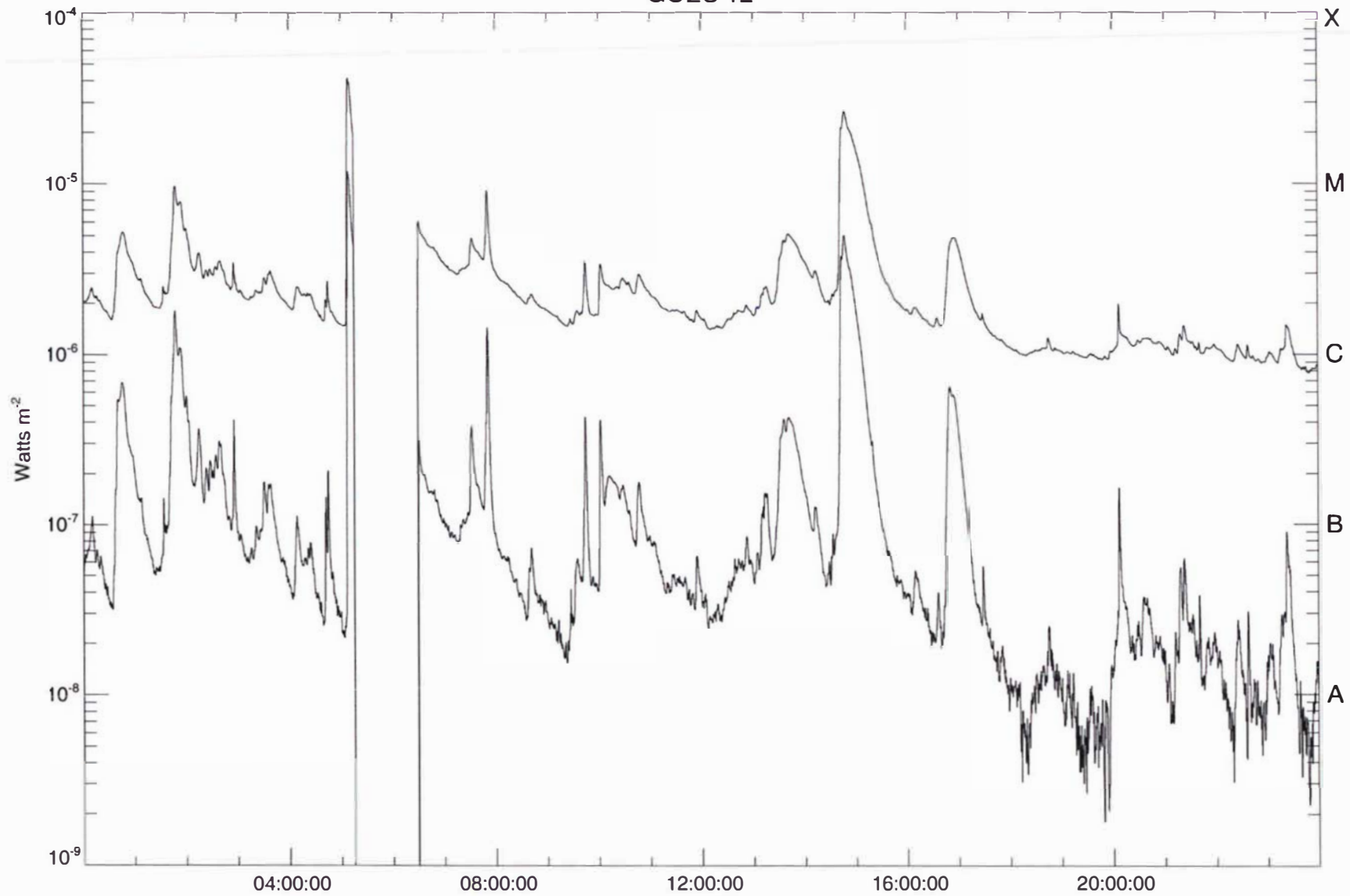
Part 1.4

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: 11/09/26, 0000:09

Plot created: 11/09/29, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

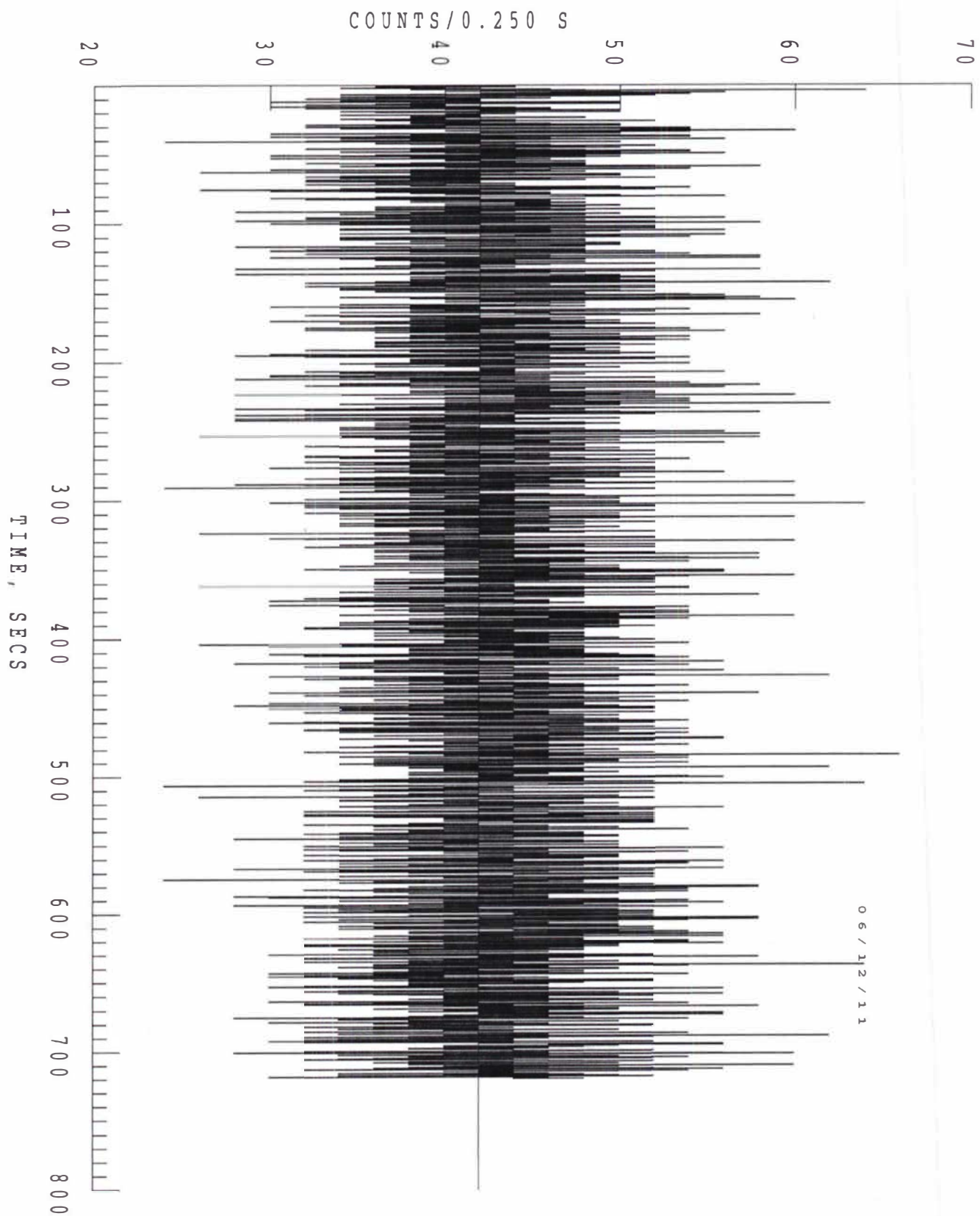
Sample average = 10

MS01

27/09/11

32291.814

50 - 3000 keV



From williams@gammaburst.ssl.berkeley.edu Tue Dec 6 15:04:02 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 6 Dec 2011 14:59:01 -0800 (PST)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for SUZAKU TRI 20110927 31716
X-Ucb-Scan-Signature: 08f60200ff5c1098b7b4a036d2aad7ba2c6e24d0
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -1.201'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 6-Dec-2011 15:02:55.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0500000
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 110927_2333

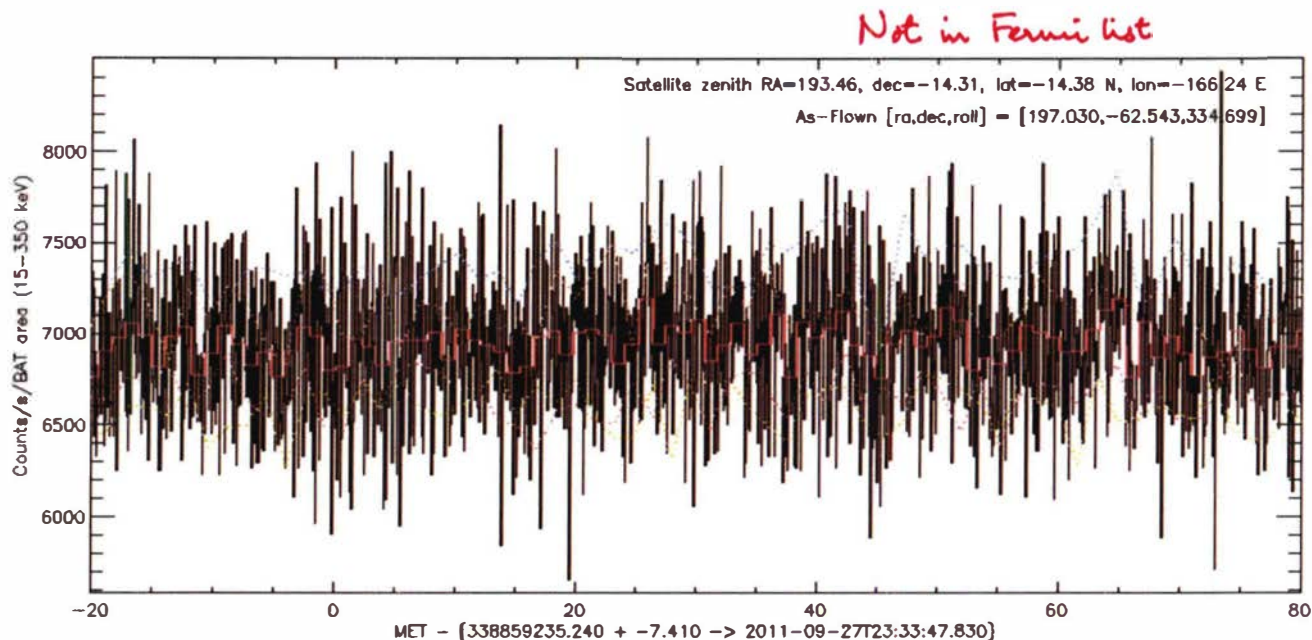
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 27 Sep 2011 21:36:17 -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

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/tmp/110927_2333.png



```
% /usr/local/bin/swinfo -o 338859235.240
Time(MET + UTC -> UT):      338859235.240 + -7.410 -> 2011-09-27T23:33:47.830
Swift Zenith(RA,dec):      193.46, -14.31
Swift Location(lon,lat,alt): -166.24 E, -14.38 N, 577 km
Obs Sequence Number:      00042145001
Obs Target Name:          swift_gal_survey_122
Obs Date and Times:        2011-09-27 23:26:54 - 23:35:52
Obs Pointing(ra,dec,roll): 197.030, -62.543, 334.70
```

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/110927_2333_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110927_2333.png

/tmp/110927_2333.png	Content-Type: image/png Content-Encoding: base64
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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 110927_2349

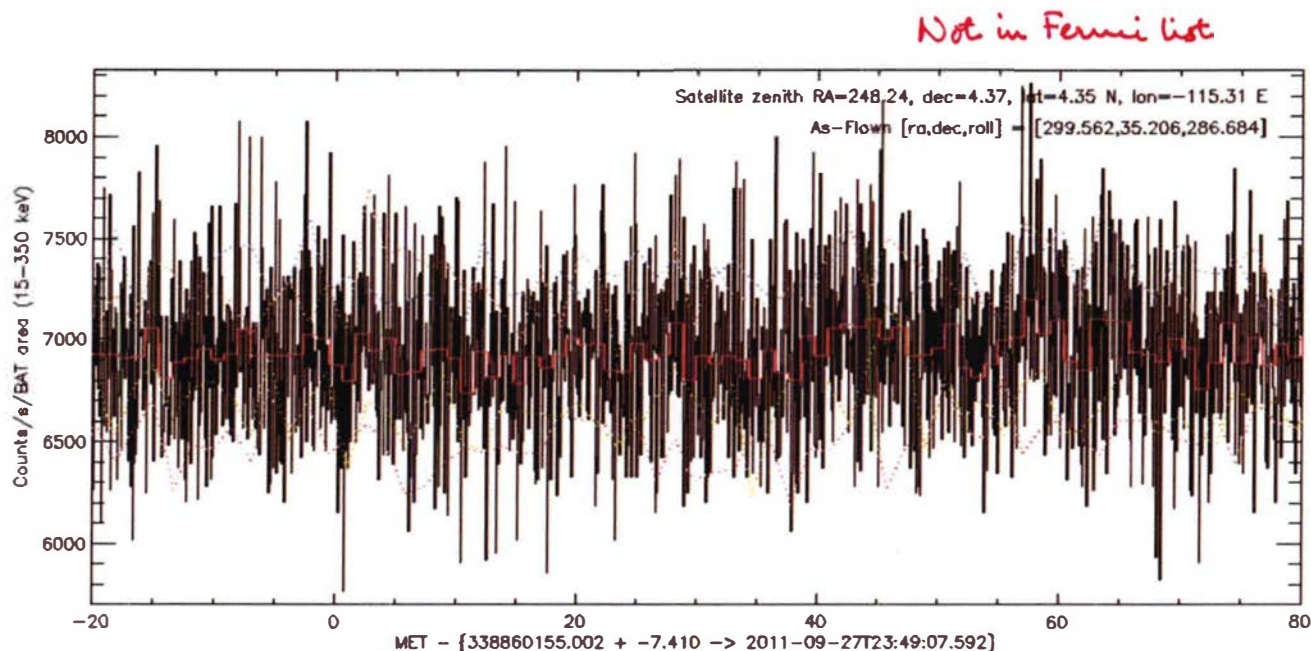
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 28 Sep 2011 01:36:48 -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/110927_2349.png



```
% /usr/local/bin/swinfo -o 338860155.002
Time(MET + UTC -> UT):      338860155.002 + -7.410 -> 2011-09-27T23:49:07.592
Swift Zenith(RA,dec):       248.24, 4.37
Swift Location(lon,lat,alt): -115.31 E, 4.35 N, 579 km
Obs Sequence Number:        00031651012
Obs Target Name:            Cygnus X-1
Obs Date and Times:         2011-09-27 23:45:54 - 23:59:50
Obs Pointing(ra,dec,roll):  299.562, 35.206, 286.68
```

--
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/110927_2349.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110927_2349_bat64ms_ipn

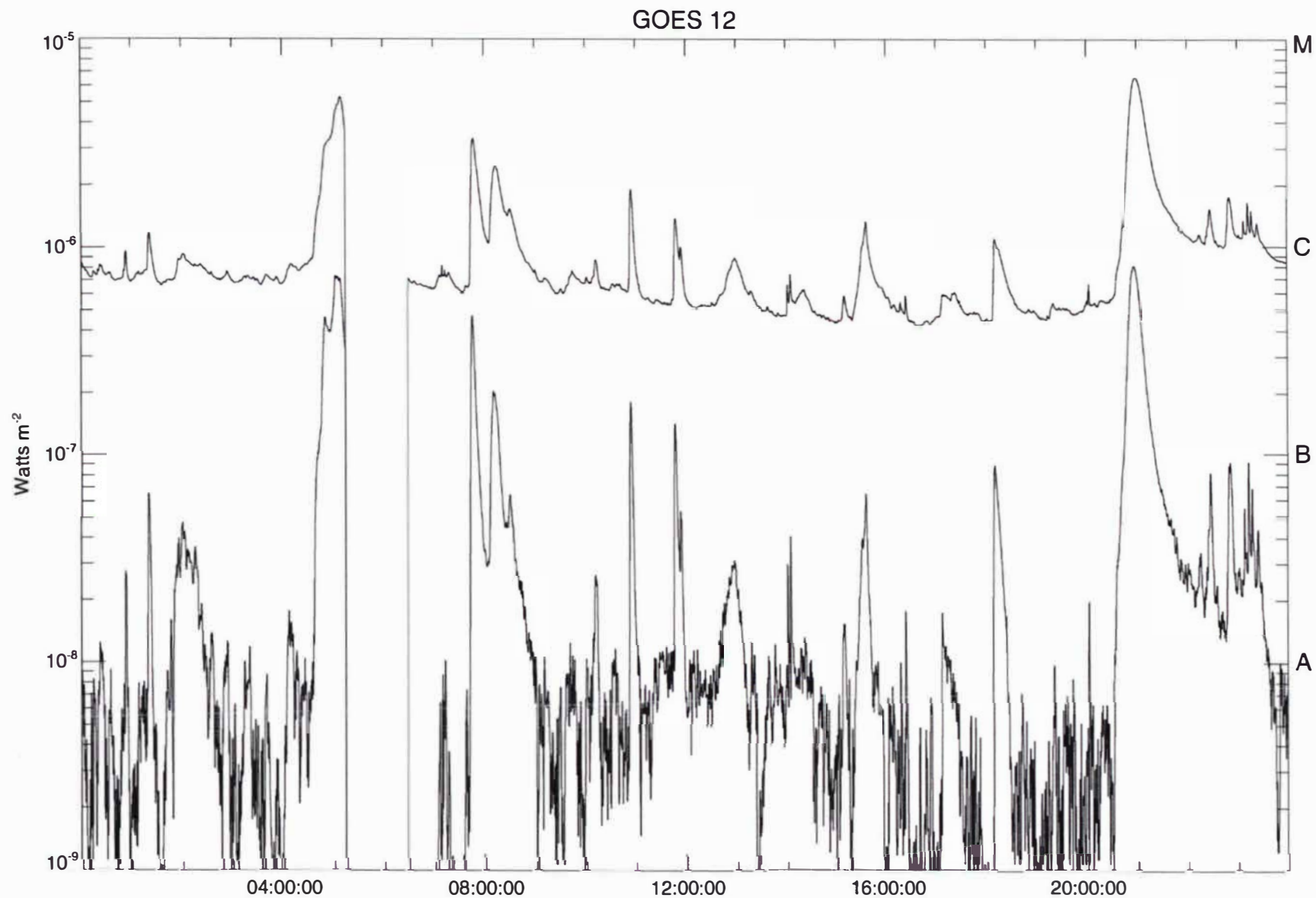
/tmp/110927_2349_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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Part 1.4

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: 11/09/27, 0000:09

Plot created: 11/09/30, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: [Ipn] BAT lightcurve for trigger at 110928_0058

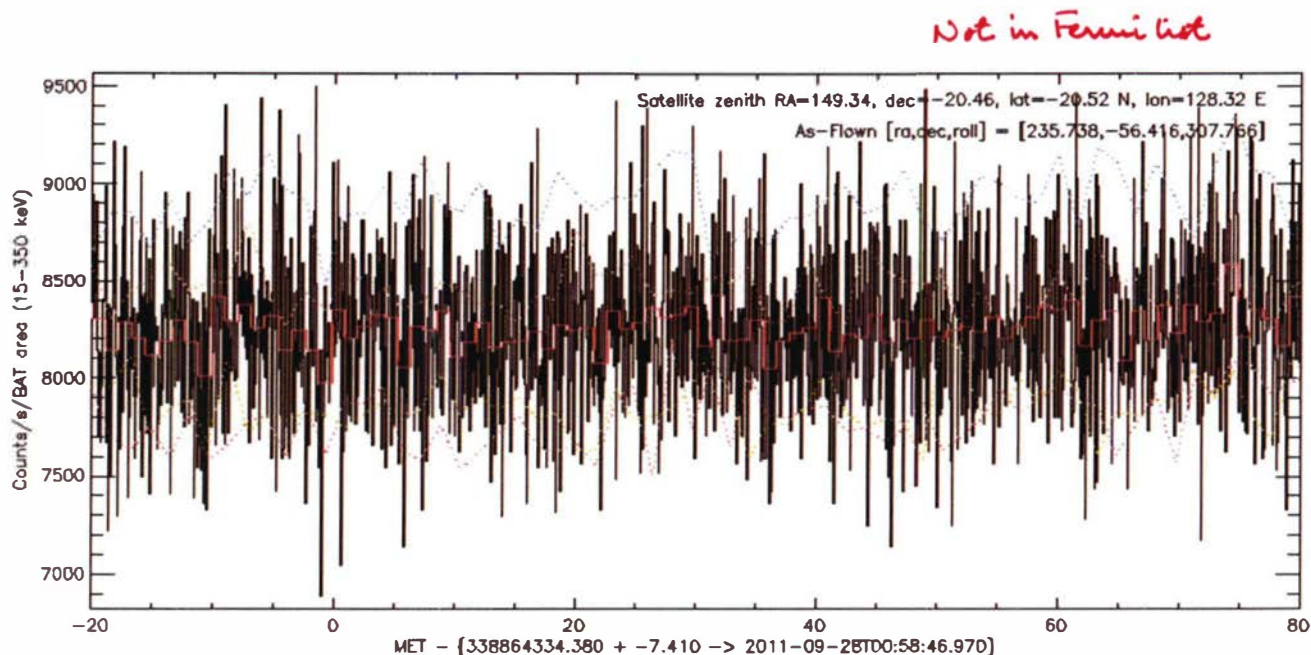
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 27 Sep 2011 22:37:03 -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/110928_0058.png



```
% /usr/local/bin/swinfo -o 338864334.380
Time(MET + UTCF -> UT):      338864334.380 + -7.410 -> 2011-09-28T00:58:46.970
Swift Zenith(RA,dec):        149.34, -20.46
Swift Location(lon,lat,alt):  128.32 E, -20.52 N, 580 km
Obs Sequence Number:         00031986067
Obs Target Name:              MAXI J1543-564
Obs Date and Times:          2011-09-28 00:54:54 - 01:11:49
Obs Pointing(ra,dec,roll):   235.738, -56.416, 307.77
```

--
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/110928_0058.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110928_0058_bat64ms_ipn

/tmp/110928_0058_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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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 110928_0116

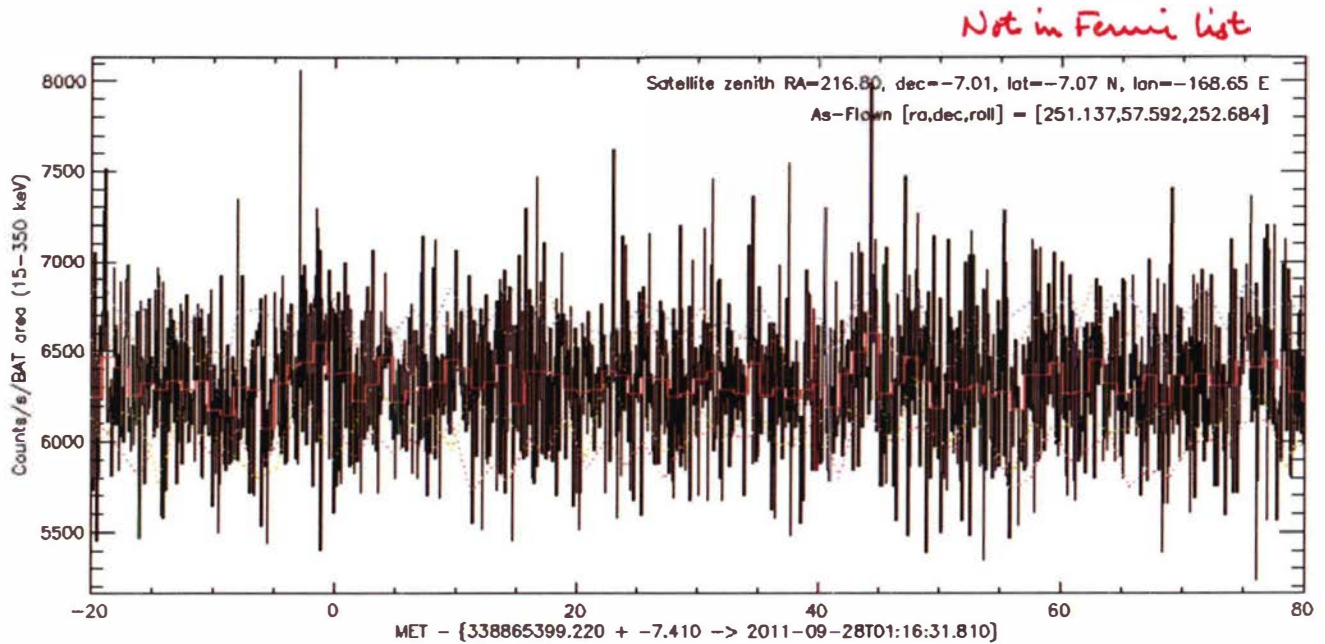
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 27 Sep 2011 22:37:03 -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/110928_0116.png



```
% /usr/local/bin/swinfo -o 338865399.220
Time(MET + UTCF -> UT):      338865399.220 + -7.410 -> 2011-09-28T01:16:31.810
Swift Zenith(RA,dec):        216.80, -7.01
Swift Location(lon,lat,alt):  -168.65 E, -7.07 N, 577 km
Obs Sequence Number:         00031955186
Obs Target Name:             Swift J164449.3+573451
Obs Date and Times:          2011-09-28 01:11:54 - 01:21:48
Obs Pointing(ra,dec,roll):   251.137, 57.592, 252.68
```

--
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/110928_0116.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110928_0116_bat64ms_ipn

/tmp/110928_0116_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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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 110928_0138

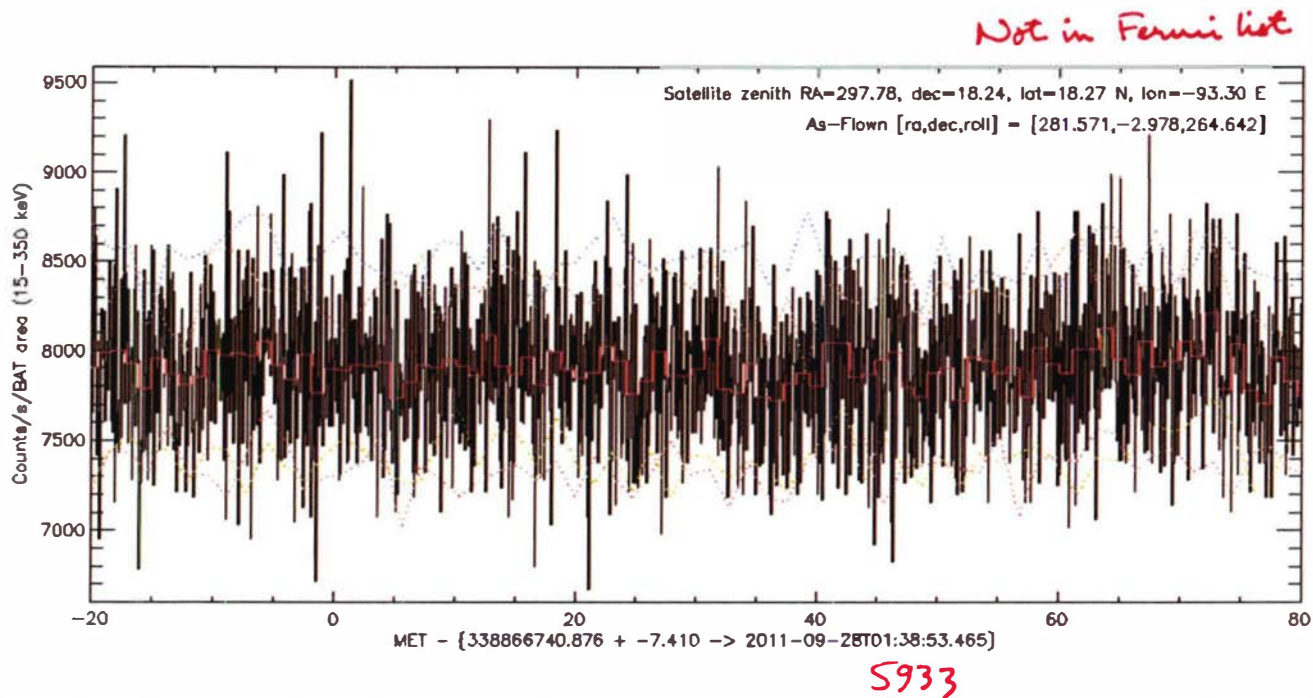
From: palmer+automatic_lightcurve@lanl.gov

Date: Tue, 27 Sep 2011 22:37:03 -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/110928_0138.png



```
% /usr/local/bin/swinfo -o 338866740.875
Time(MET + UTCF -> UT):      338866740.876 + -7.410 -> 2011-09-28T01:38:53.465
Swift Zenith(RA,dec):        297.78, 18.24
Swift Location(lon,lat,alt):  -93.30 E, 18.27 N, 585 km
Obs Sequence Number:         00032031005
Obs Target Name:              PSR J1846-0258
Obs Date and Times:          2011-09-28 01:33:54 - 01:54:53
Obs Pointing(ra,dec,roll):    281.571, -2.978, 264.64
```

--
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/110928_0138.png	Content-Type: image/png Content-Encoding: base64
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/tmp/110928_0138_bat64ms_ipn

/tmp/110928_0138_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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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

From vxw@capella2.gsfc.nasa.gov Tue Sep 27 18:52:53 2011
 X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
 Date: Tue, 27 Sep 2011 21:55:13 -0400
 From: Bacodine <vxw@capella2.gsfc.nasa.gov>
 To: khurley@ssl.berkeley.edu
 Subject: GCN/SWIFT BAT LIGHTCURVE
 X-Ucb-Scan-Signature: 6ab73898ald816eba329309a256f641f91add66f
 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

NOTICE_DATE: Wed 28 Sep 11 01:55:11 UT

NOTICE_TYPE: Swift-BAT GRB Lightcurve

TRIGGER_NUM: 504215, Seg_Num: 0

GRB_RA: 257.755d {+17h 11m 01s} (J2000),
 257.858d {+17h 11m 26s} (current),
 257.316d {+17h 09m 16s} (1950)

GRB_DEC: +36.570d {+36d 34' 13"} (J2000),
 +36.556d {+36d 33' 23"} (current),
 +36.630d {+36d 37' 49"} (1950)

GRB_DATE: 15832 TJD; 271 DOY; 11/09/28

GRB_TIME: 6691.78 SOD {01:51:31.78} UT

TRIGGER_INDEX: 490

GRB_PHI: -21.57 [deg]

GRB_THETA: 45.33 [deg]

DELTA_TIME: 0.00 [sec]

TRIGGER_DUR: 8.192 [sec]

SOLN_STATUS: 0x3

RATE_SIGNIF: 8.54 [sigma]

MAGE_SIGNIF: 7.03 [sigma]

C_URL: sw00504215000msb.lc

SUN_POSTN: 184.23d {+12h 16m 54s} -1.83d {-01d 49' 46"}
 SUN_DIST: 78.04 [deg] Sun_angle= -4.9 [hr] (East of Sun)

MOON_POSTN: 190.31d {+12h 41m 15s} -9.34d {-09d 20' 15"}
 MOON_DIST: 78.11 [deg]

MOON_ILLUM: 1 [%]

GAL_COORDS: 60.20, 35.10 [deg] galactic lon,lat of the burst (or transient)

ECL_COORDS: 250.58, 59.19 [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.

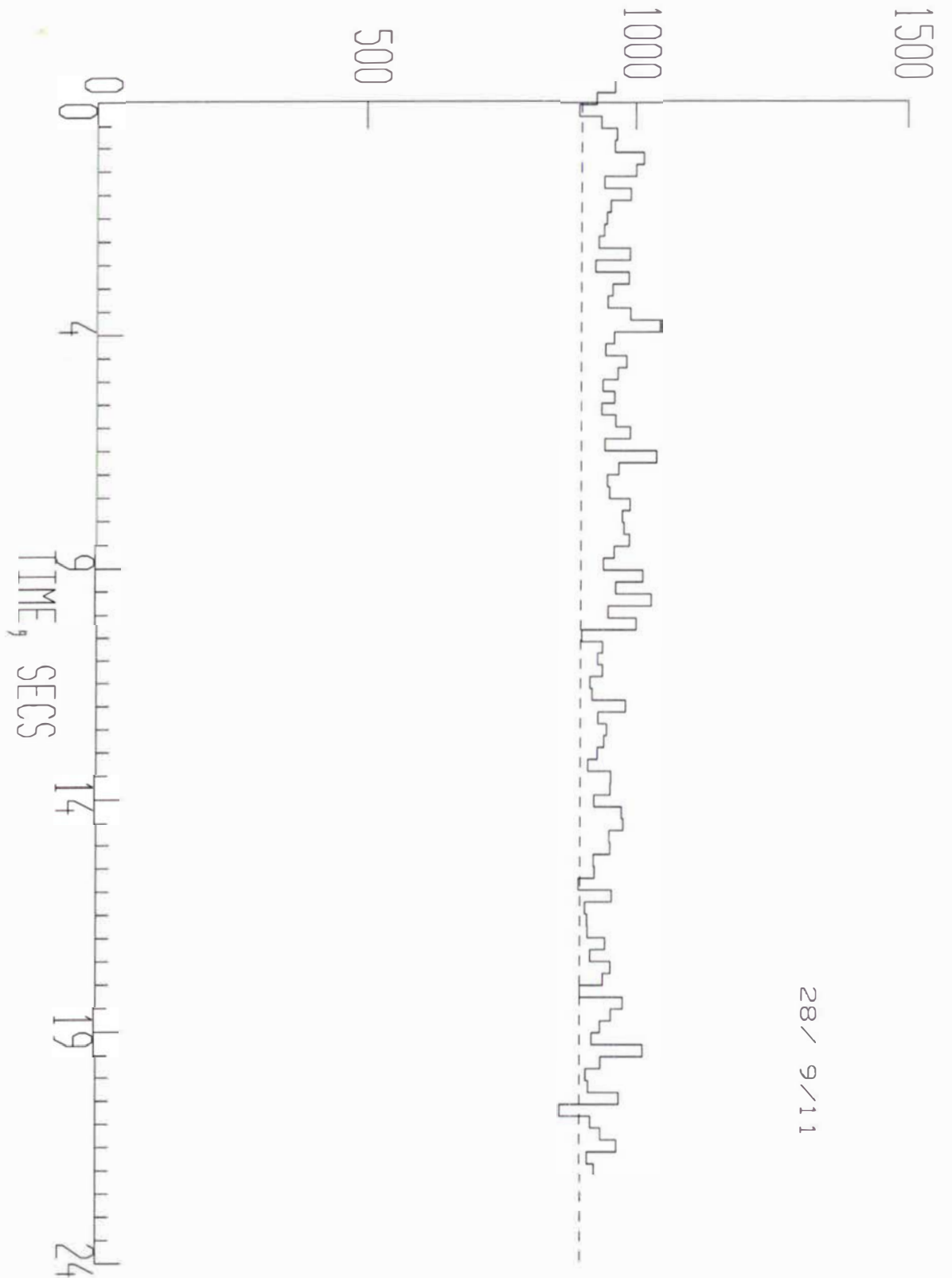
COMMENTS: This trigger occurred at longitude,latitude = 317.83,18.45 [deg]

26.7s

 $6.9 \times 10^{-7} \text{ erg cm}^{-2}$ 0.9 phot/cm² s

SWIFT 28/09/11 6691.790
25- 100 keV

COUNTS/0.256 S



28 / 9 / 11

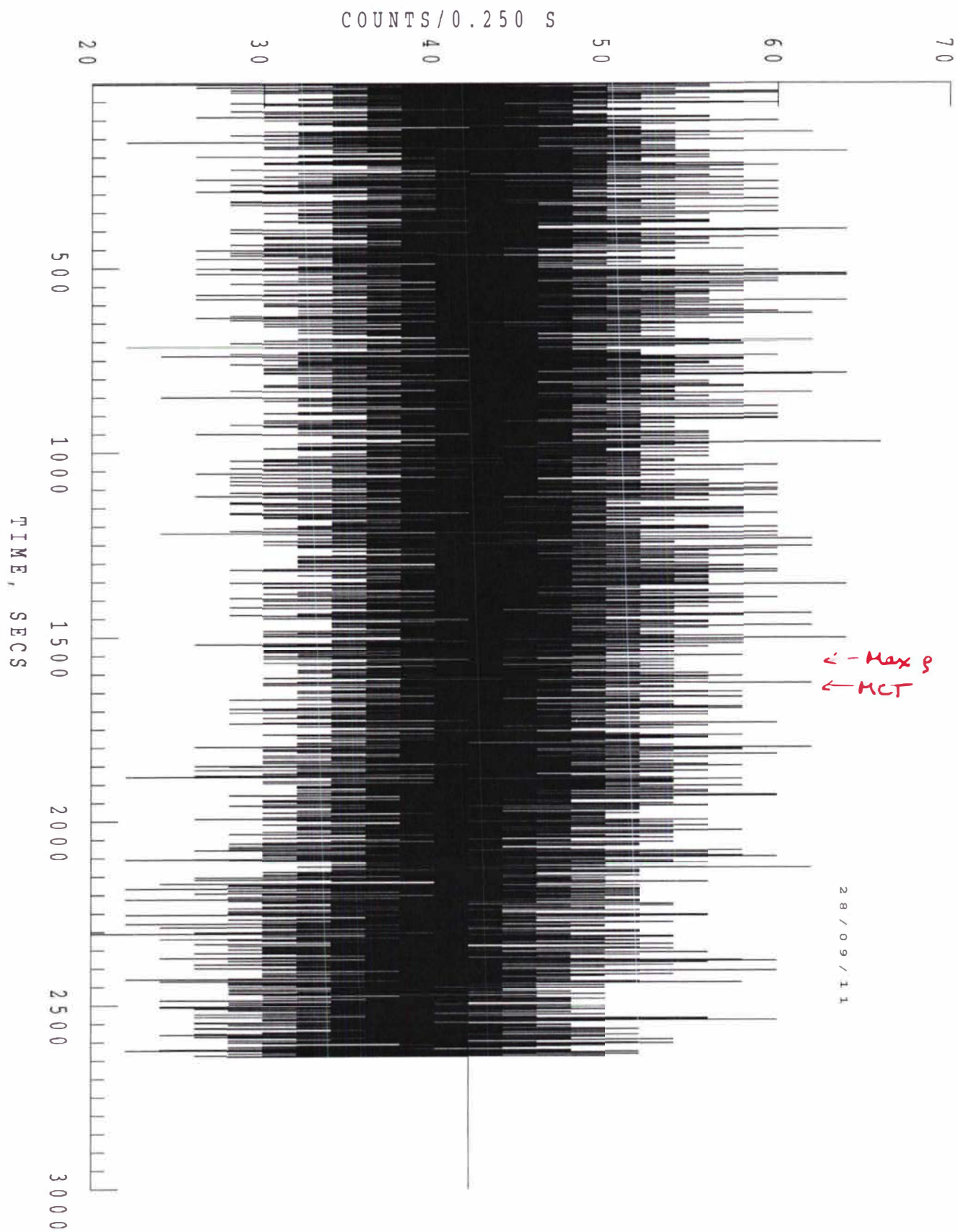
MS01

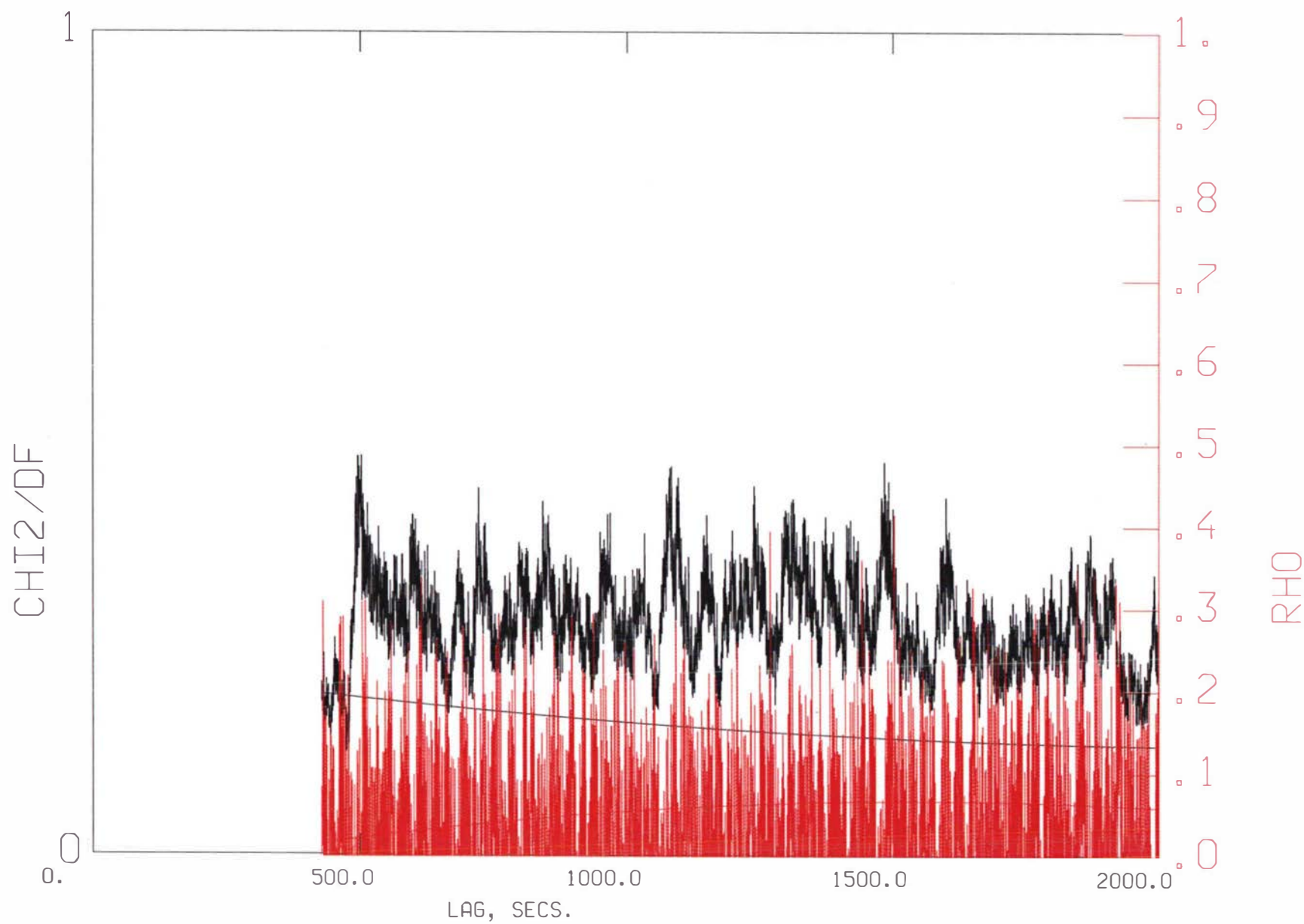
28/09/11

5350.779

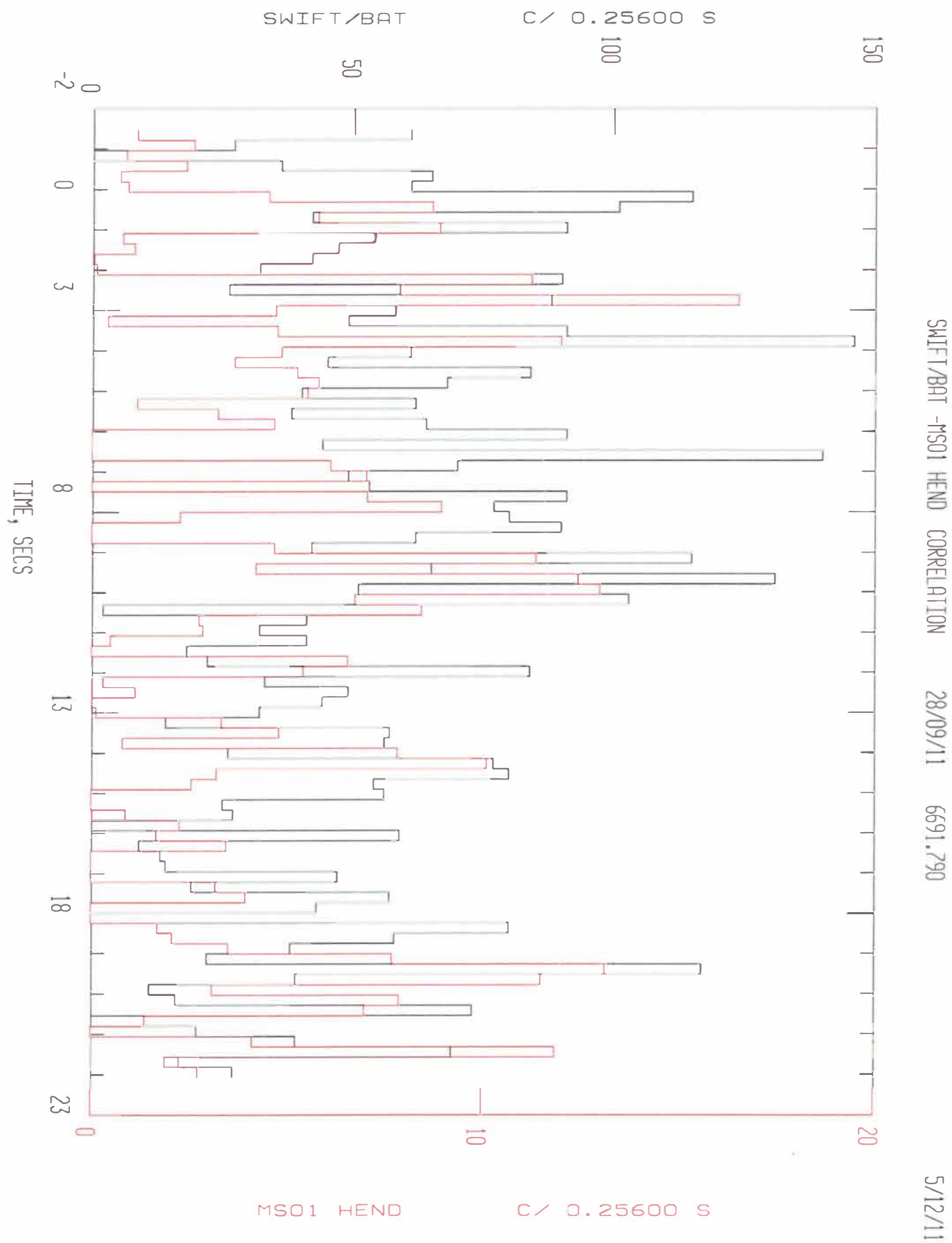
A

50 - 3000 keV





A



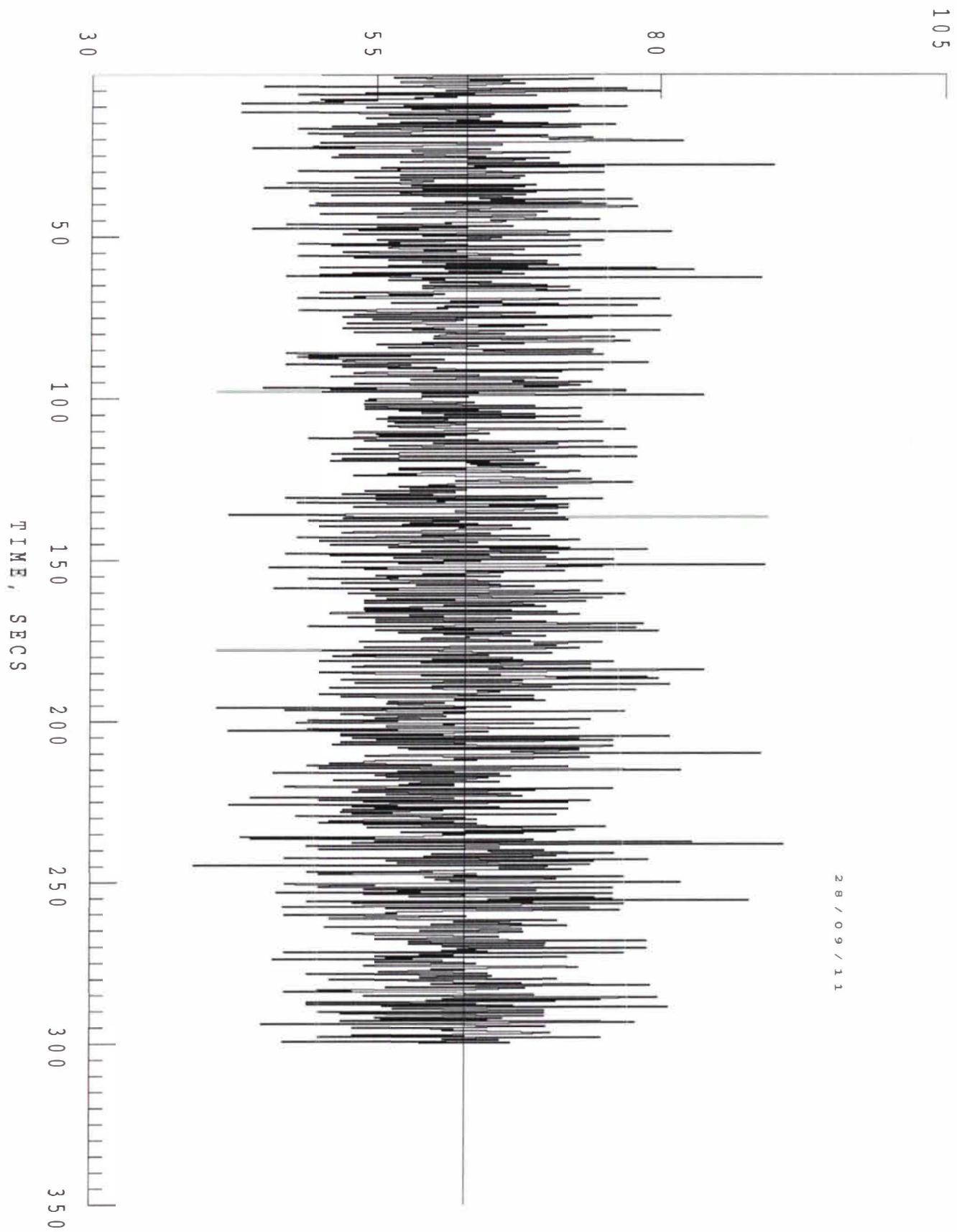
HESSI

28/09/11 6541.000 (SWIFT_20110928_06691)

A

25- 150 keV

COUNTS/0.250 S

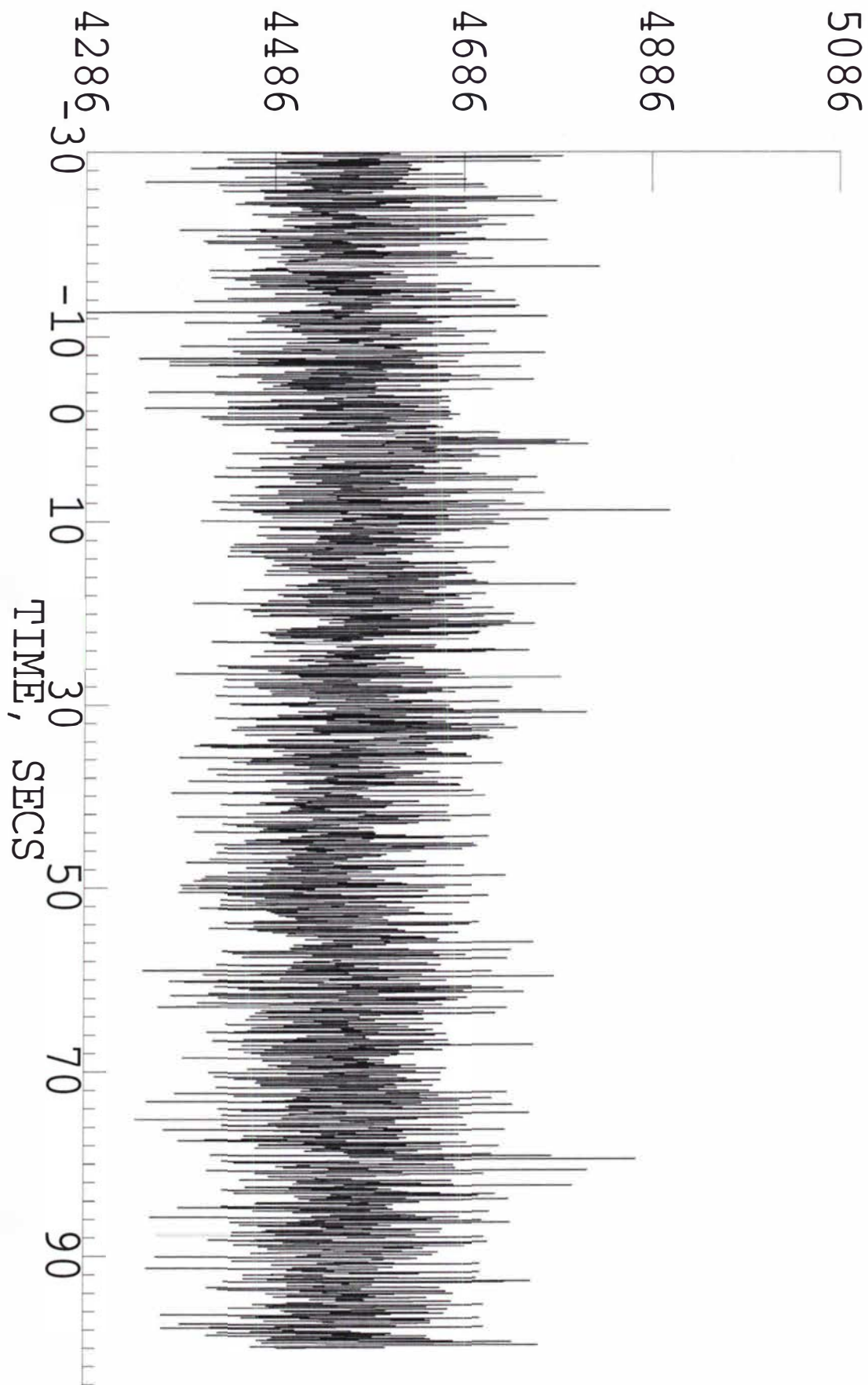


INTEGRAL 28/09/11 6691.015 01:51:31.0

A

100-10000 keV

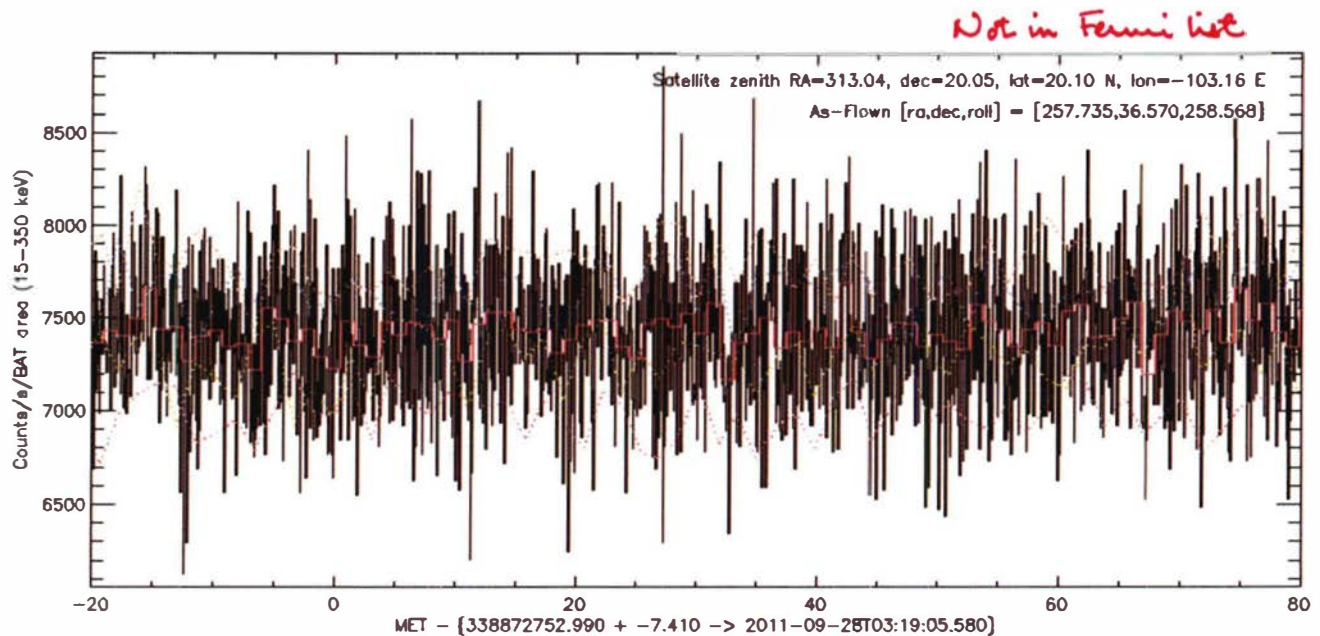
COUNTS/ .050 S



Subject: [Ipn] BAT lightcurve for trigger at 110928_0319
From: palmer+automatic_lightcurve@lanl.gov
Date: Wed, 28 Sep 2011 01:07:09 -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/110928_0319.png



```
% /usr/local/bin/swinfo -o 338872752.990
Time(MET + UTC -> UT):      338872752.990 + -7.410 -> 2011-09-28T03:19:05.580
Swift Zenith(RA,dec):       313.04, 20.05
Swift Location(lon,lat,alt): -103.16 E, 20.10 N, 587 km
Obs Sequence Number:        00504215000
Obs Target Name:             N/A
Obs Date and Times:          2011-09-28 02:44:12 - 03:29:12
Obs Pointing(ra,dec,roll):   257.735, 36.570, 258.57
```

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

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

/tmp/110928_0319_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110928_0319.png

/tmp/110928_0319.png	Content-Type: image/png Content-Encoding: base64
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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 110928_0349

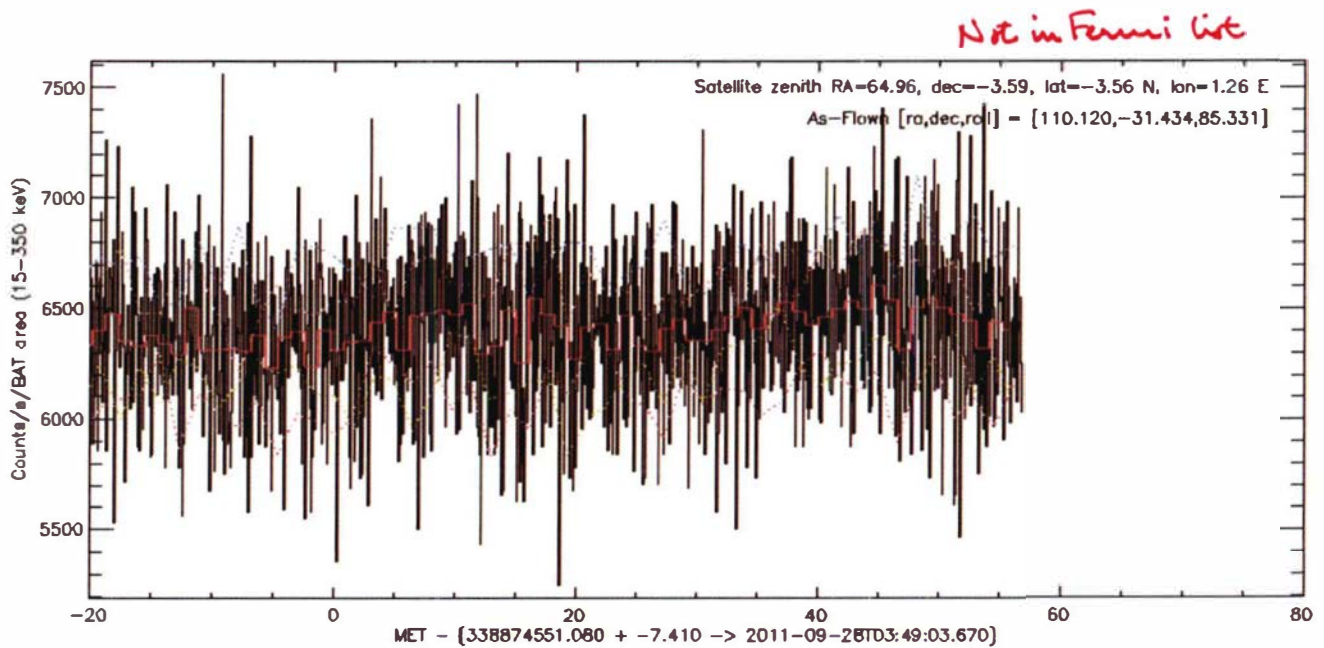
From: palmer+automatic_lightcurve@lanl.gov

Date: Wed, 28 Sep 2011 01:07:09 -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/110928_0349.png



```
% /usr/local/bin/swinfo -o 338874551.080
Time(MET + UTC -> UT):      338874551.080 + -7.410 -> 2011-09-28T03:49:03.670
Swift Zenith(RA,dec):       64.96, -3.59
Swift Location(lon,lat,alt): 1.26 E, -3.56 N, 591 km
Obs Sequence Number:        00032036008
Obs Target Name:            RX J0720.4-3125
Obs Date and Times:         2011-09-28 03:47:54 - 04:06:50
Obs Pointing(ra,dec,roll):  110.120, -31.434, 85.33
```

--
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/110928_0349_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110928_0349.png

/tmp/110928_0349.png	Content-Type: image/png Content-Encoding: base64
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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: Jul 26 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?

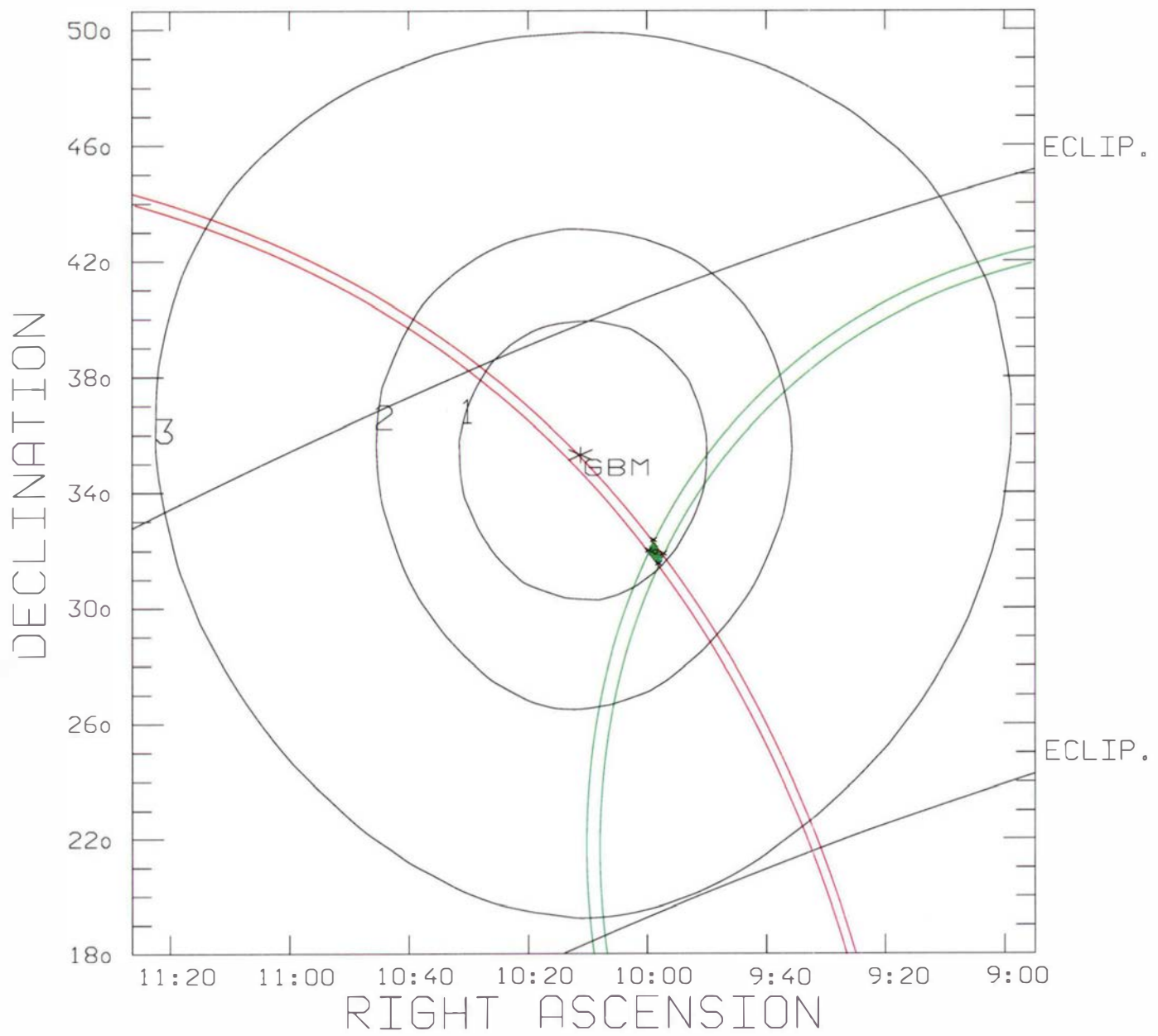
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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-ipn1c.pl>)

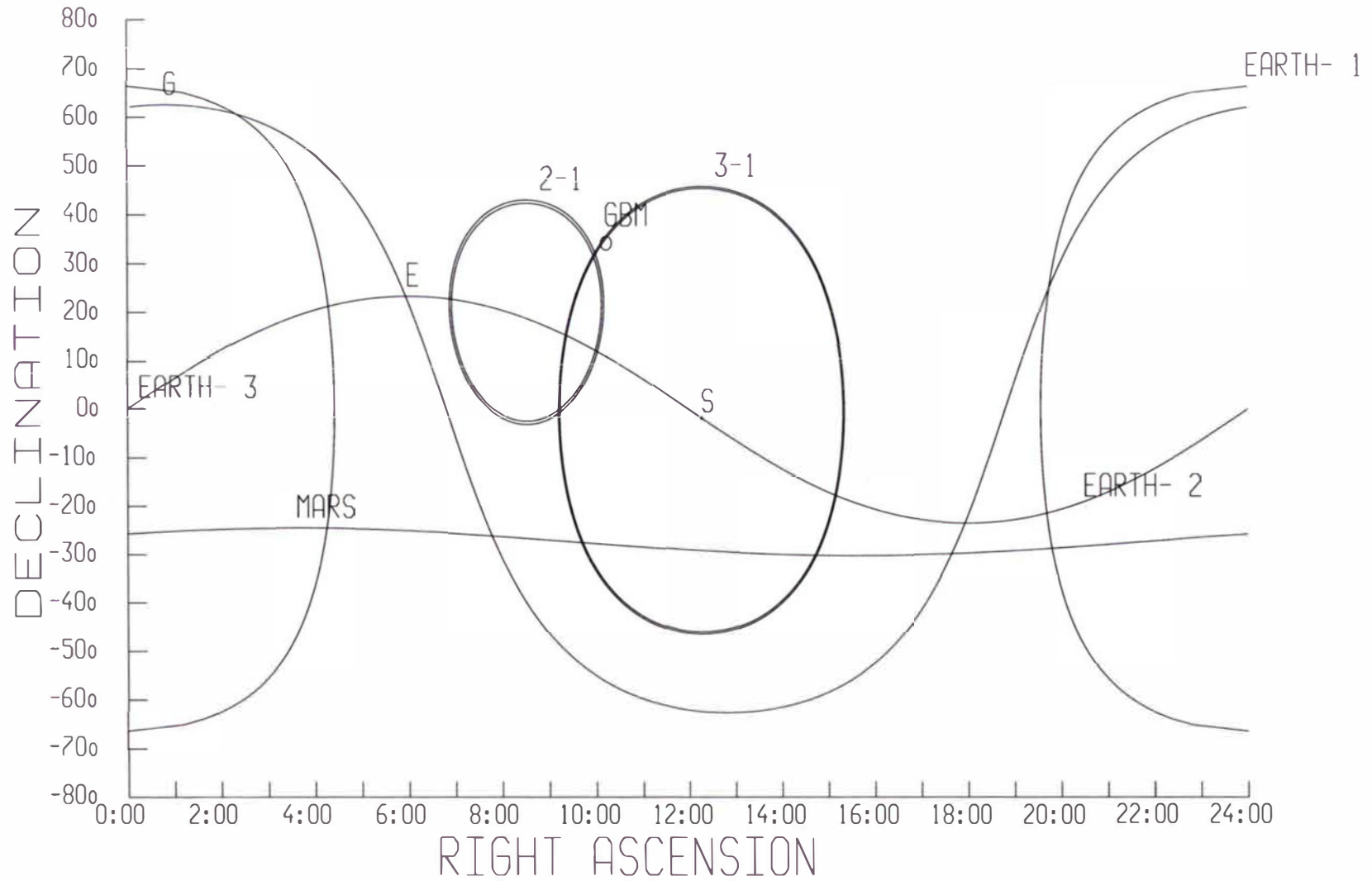
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

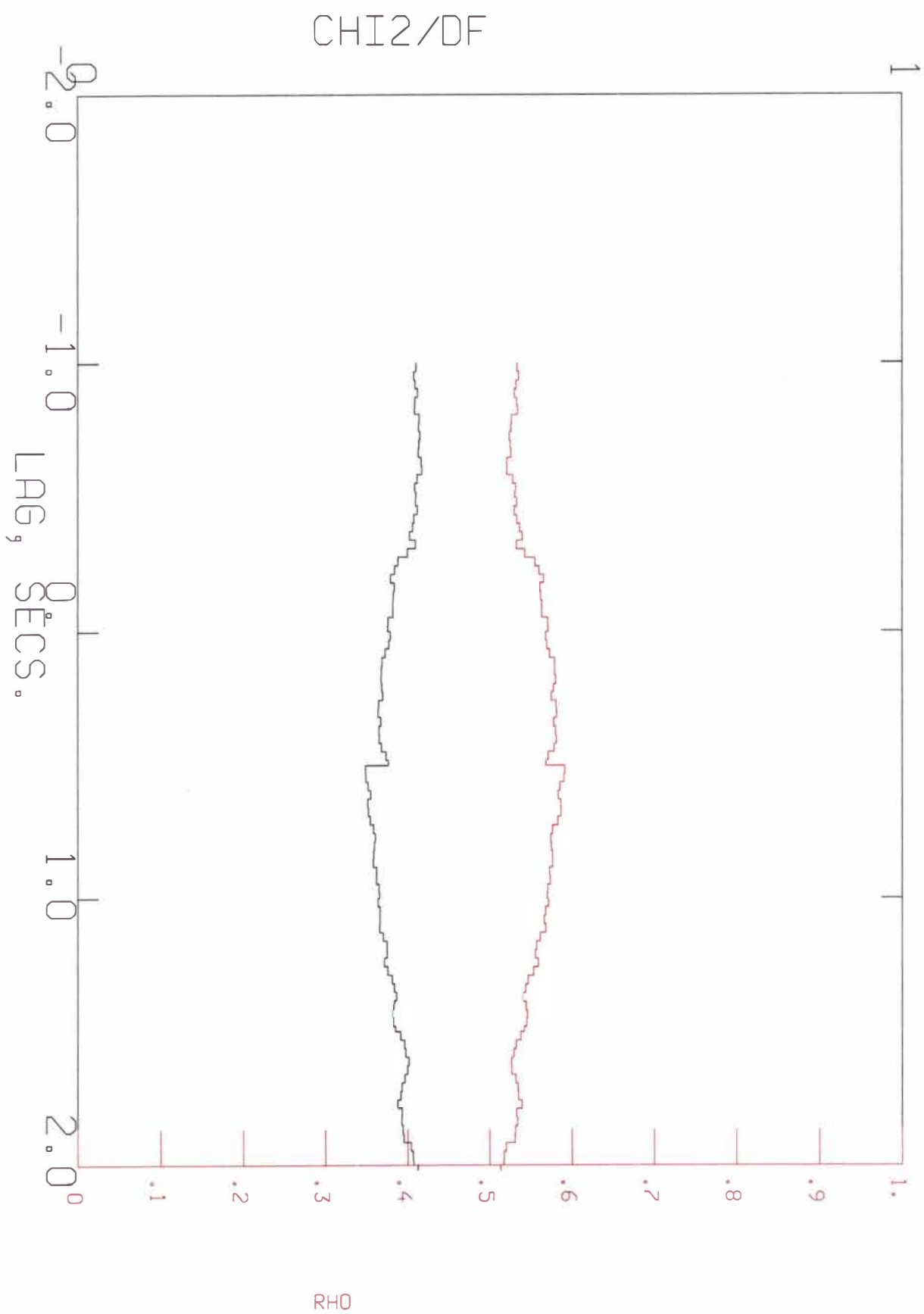


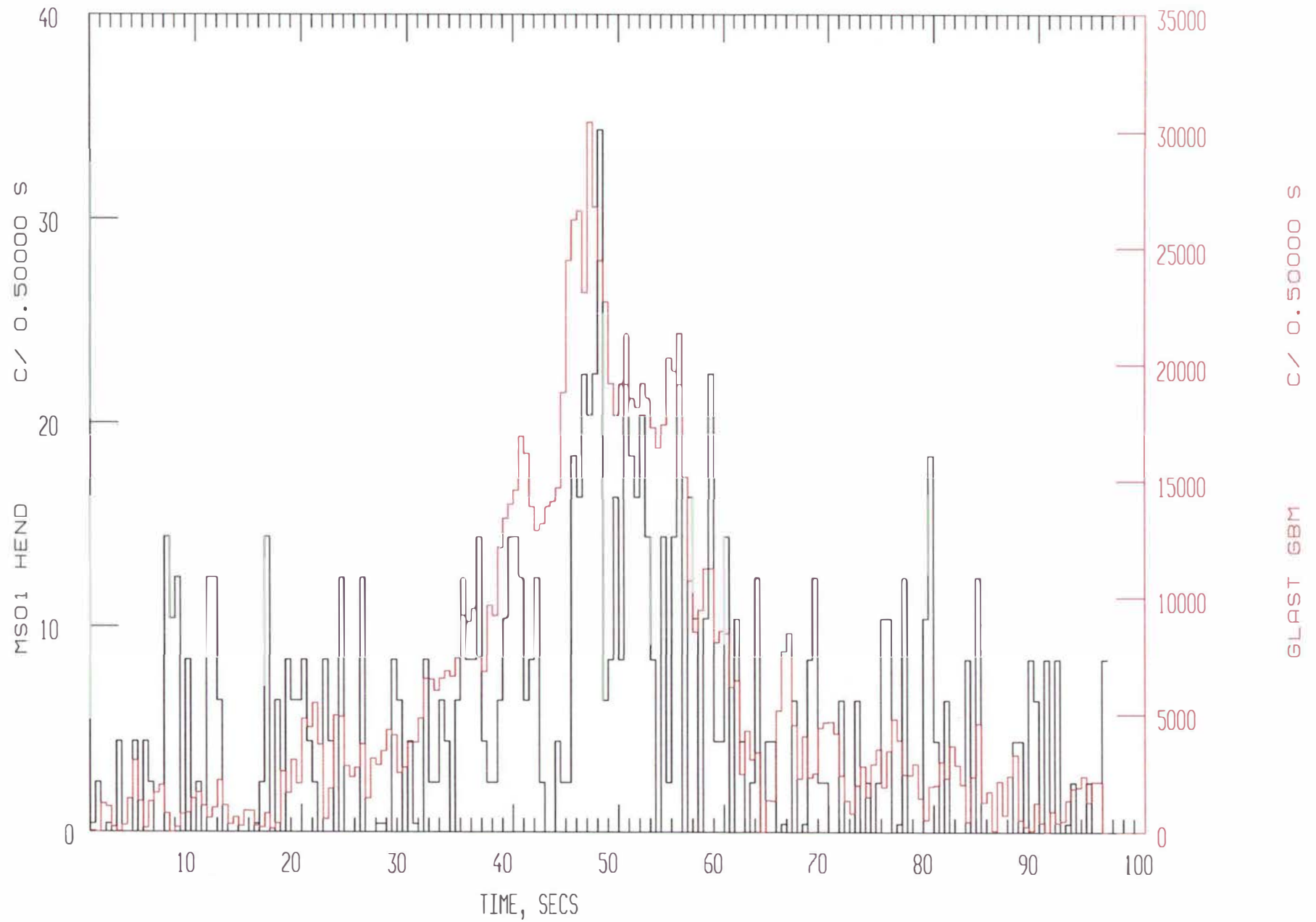
EVENT OF SEP 28, 2011 4:19

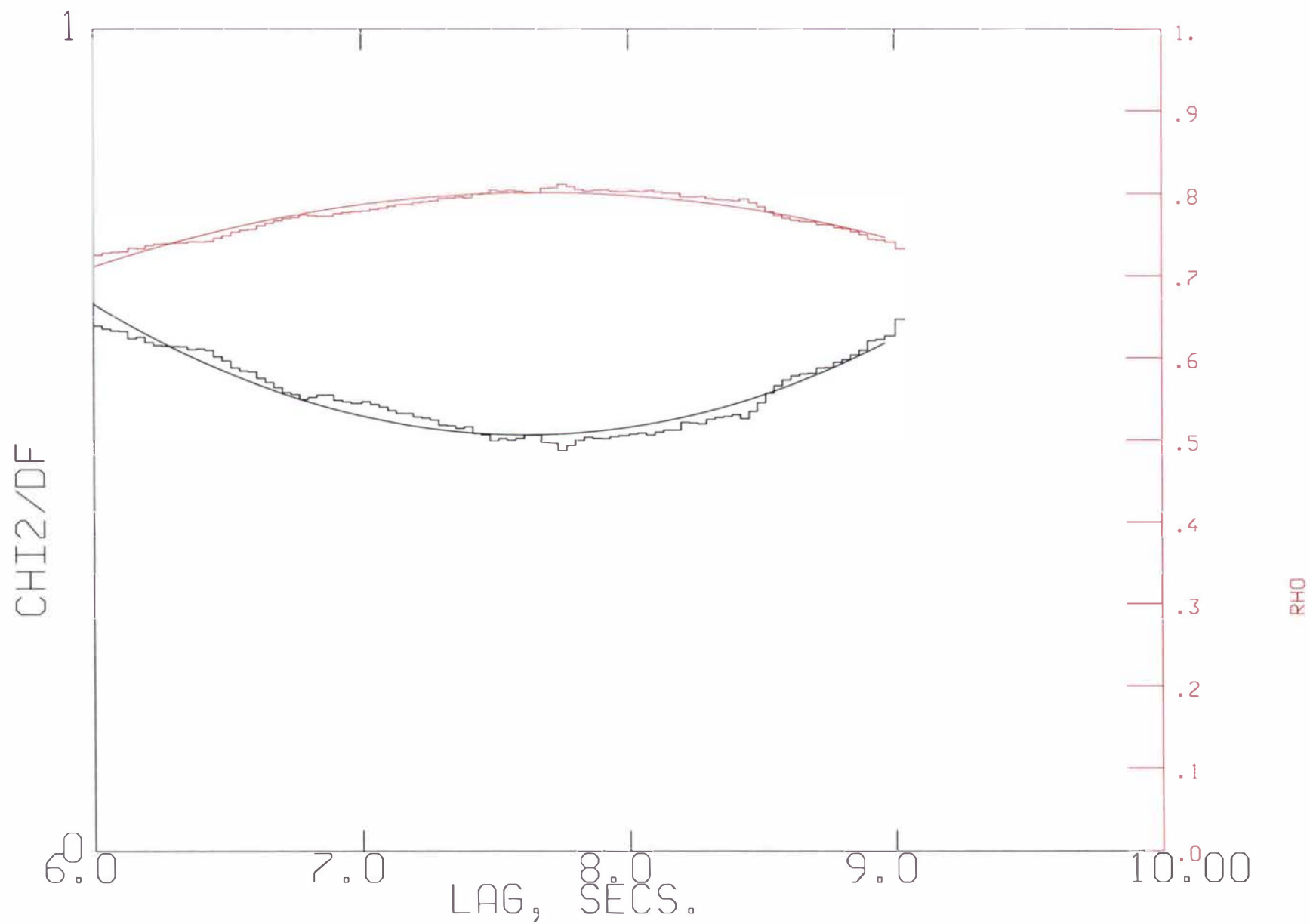
24/07/2015

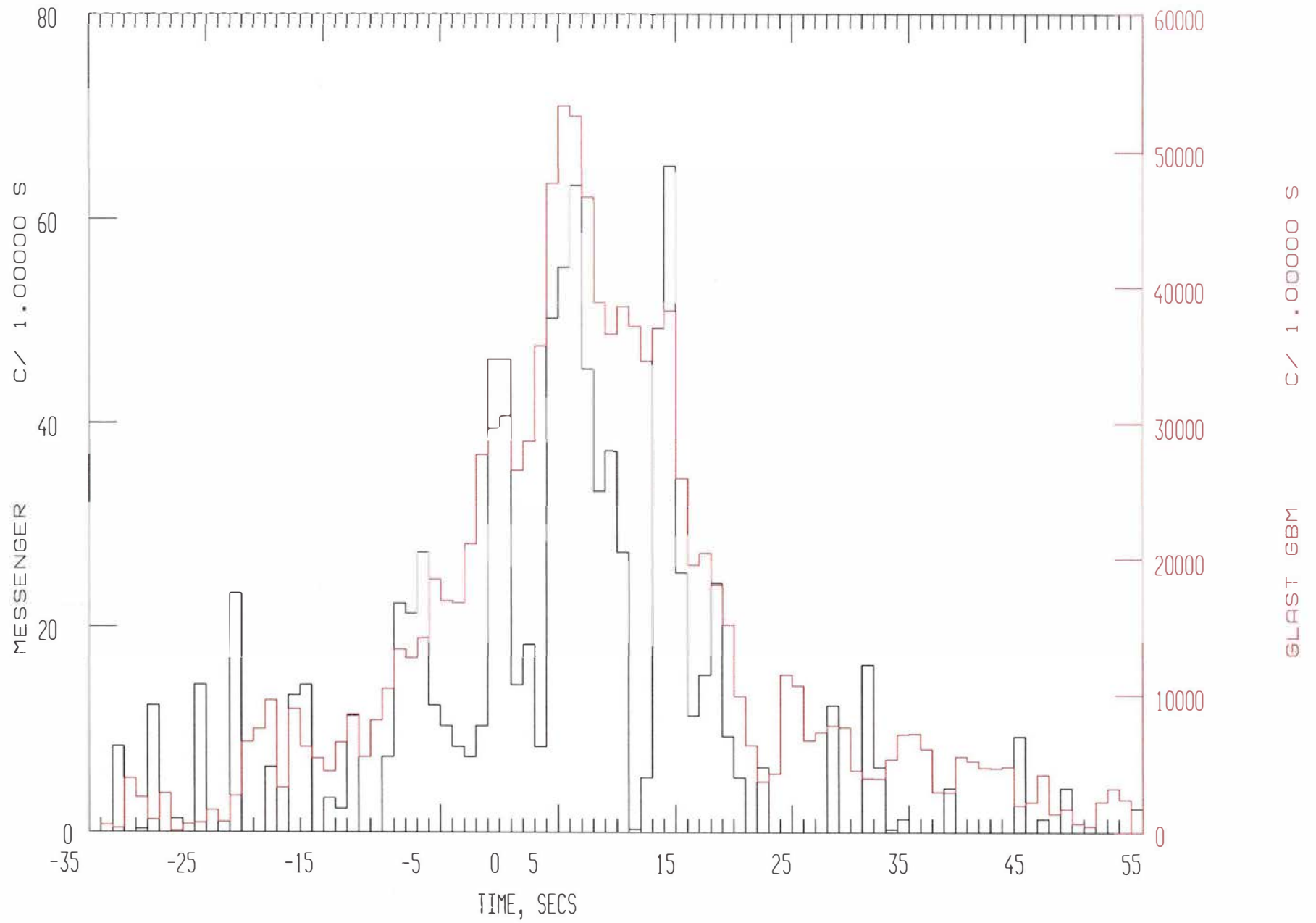
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 FERMI 2 MO 3 MESSENGER











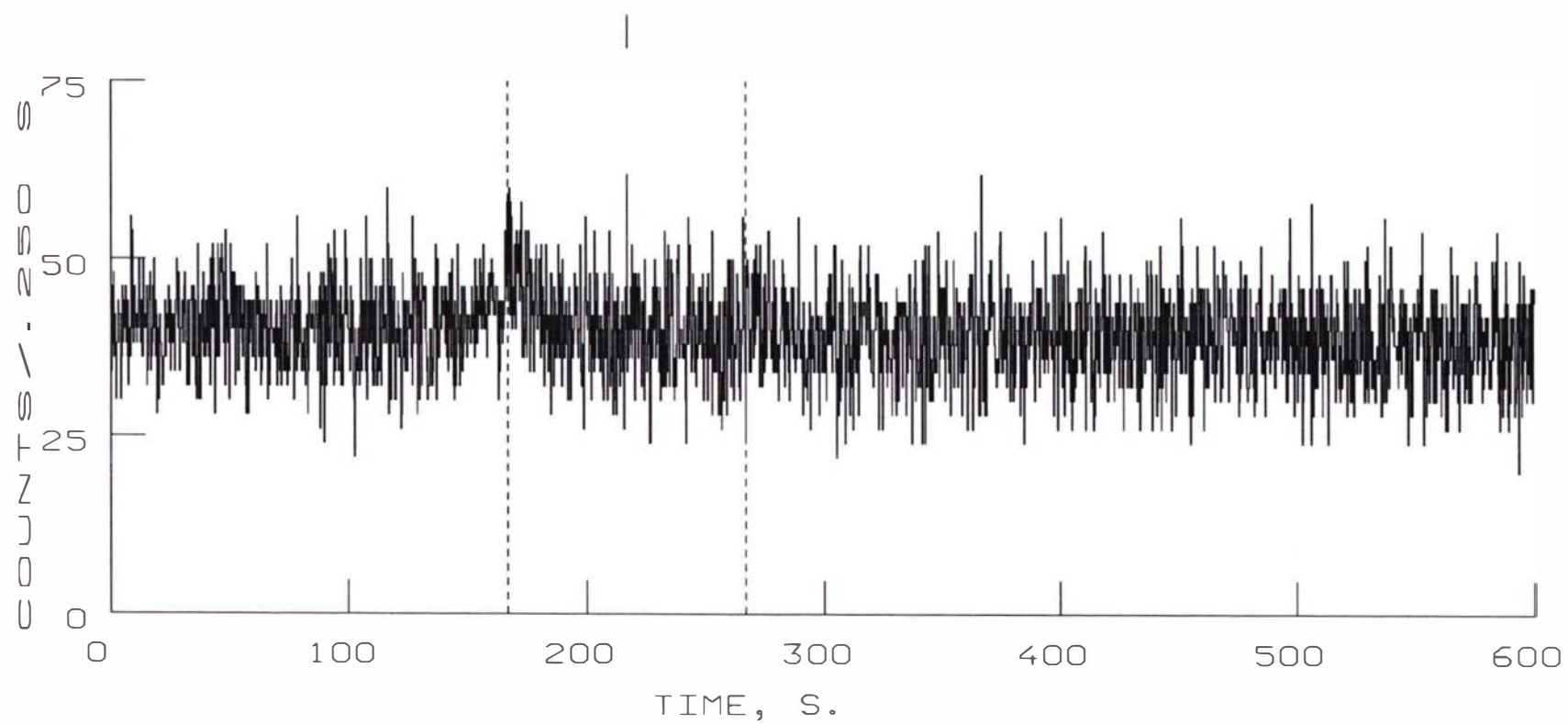
MS01 HEND

24/07/2015

28/09/2011 14590.555 s

50-3000 keV

MAXIMUM



13

GLAST

28/09/11

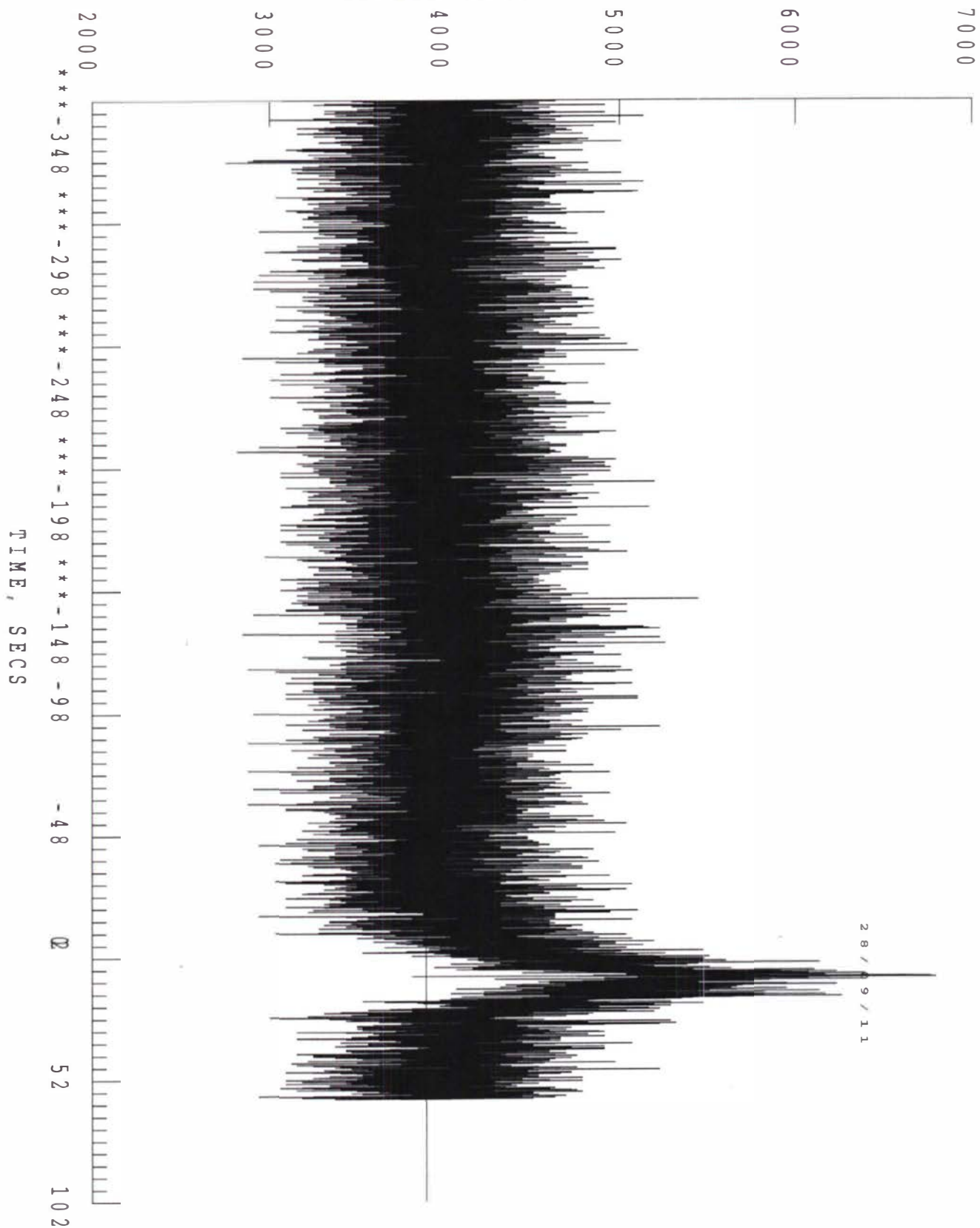
15591.410

04:19:51

26- 293 keV

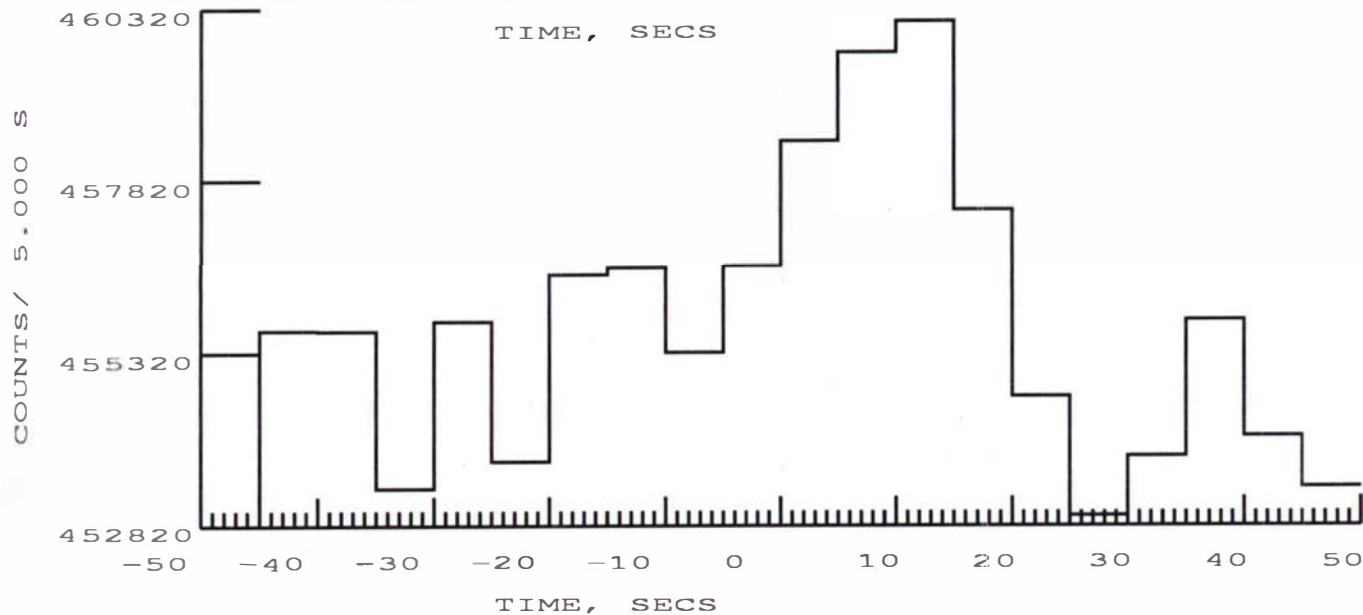
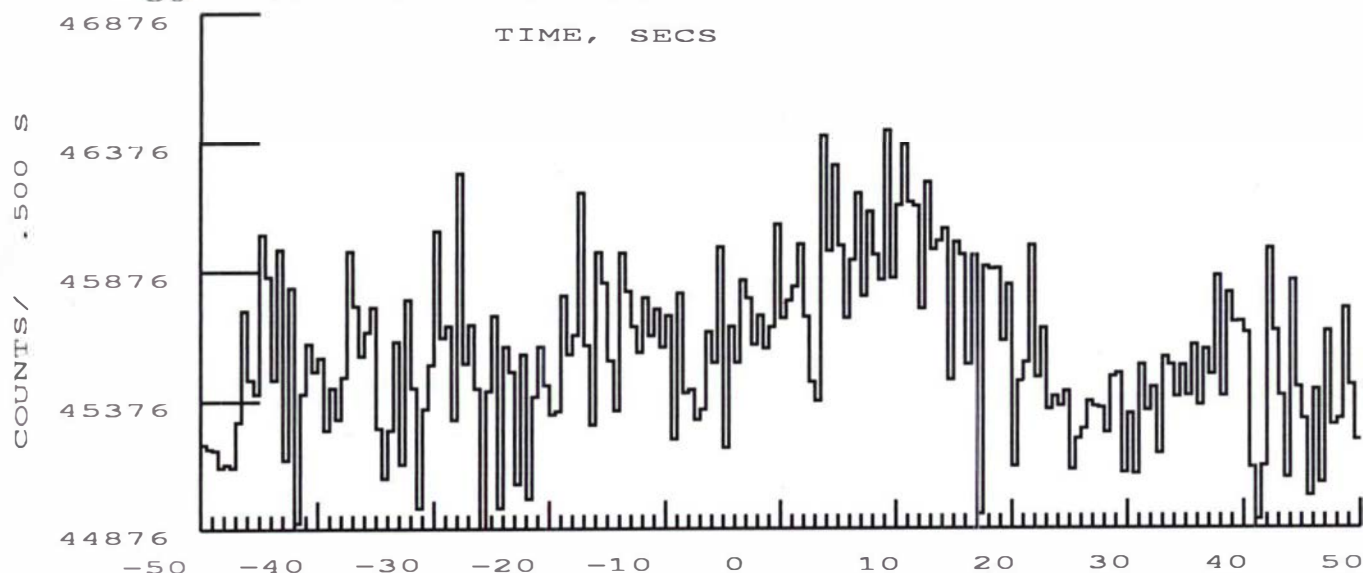
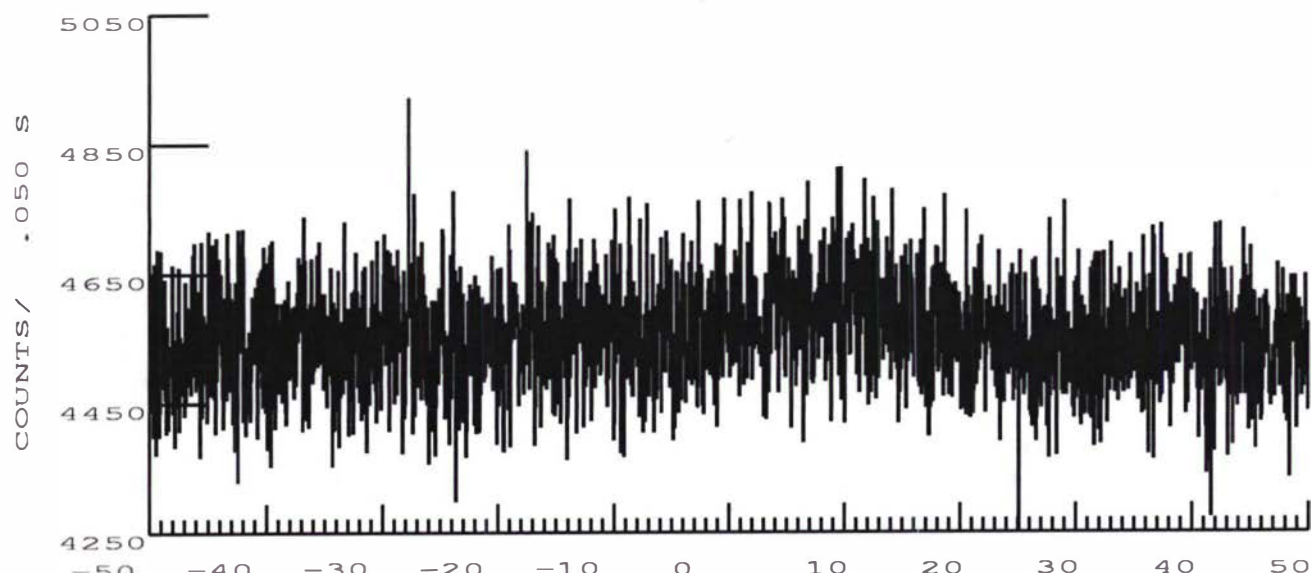
153.4 34.29 1.42

COUNTS/0.032 S



B

INTEGRAL 28/09/11 15591.000 04:19:51.0 20/01/14



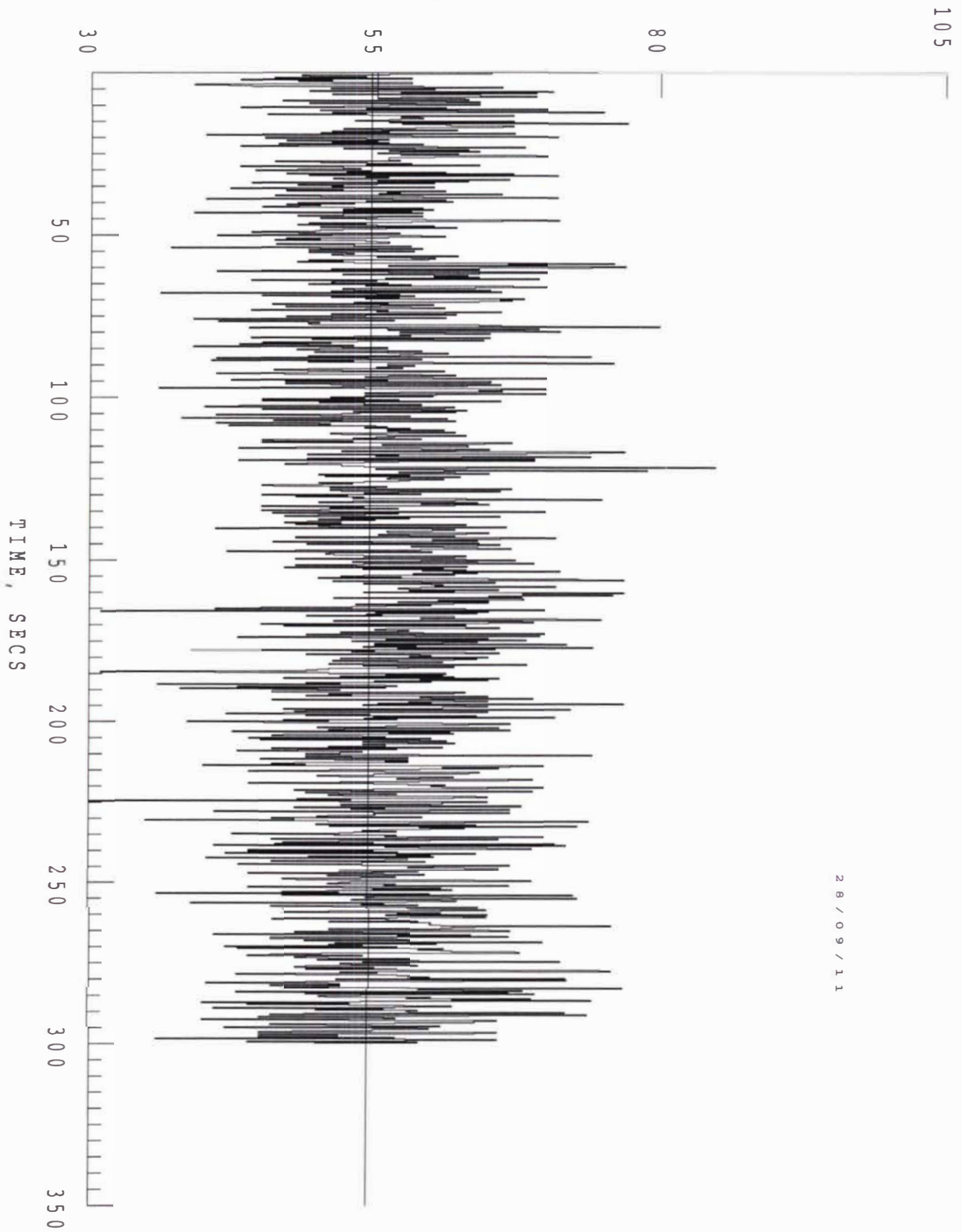
HESSI

28/09/11 15441.000 (GLAST_20110928_15591)

B

25- 150 keV

COUNTS/0.250 S



B

05/12/11

MESSENGER

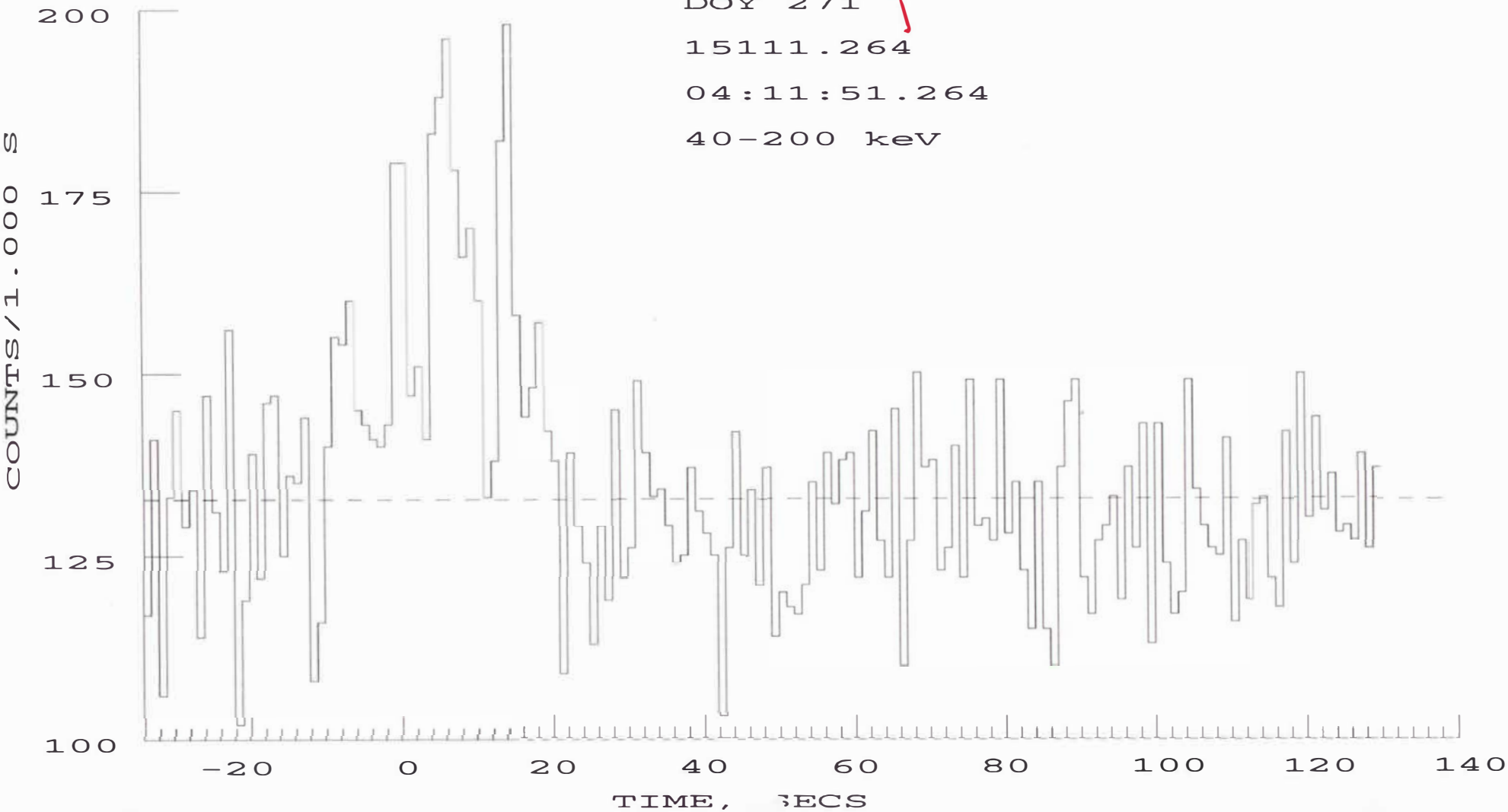
28/09/11

DOY 271

15111.264

04:11:51.264

40-200 keV



KONUS2

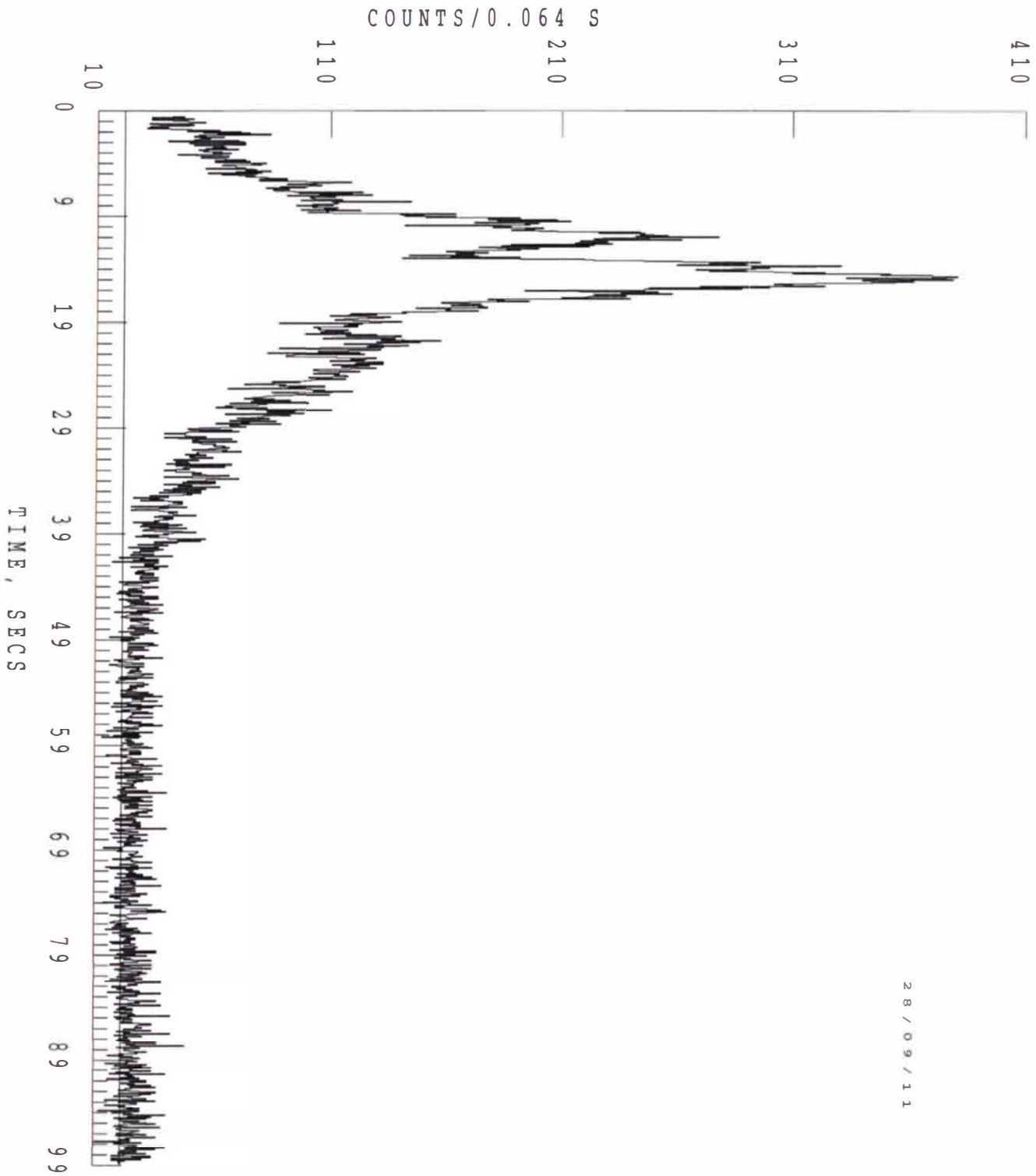
28/09/11

44942.043

C

50 - 200 keV

Solar



KONUS HRES 20110928 44942

TRIGGER TIME: 28/09/11 DOY 271 Julian 2455834.02016 UT = 12.484 12:29:02 (44942.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

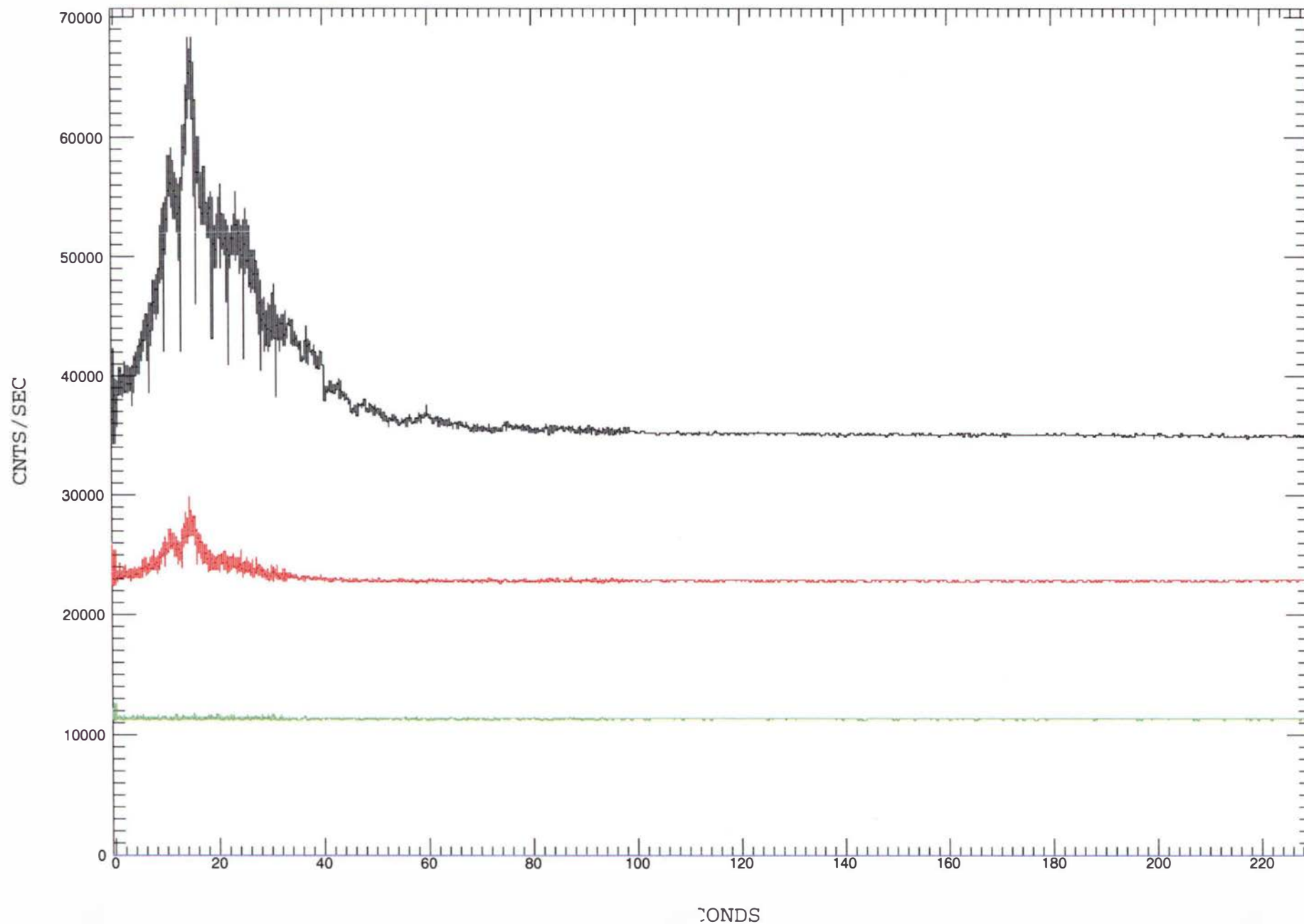
Chan 4 : [> 10 MeV]

Channel 1 + 33900

Channel 2 + 22600

Channel 3 + 11300

Channel 4 + 0



MS01

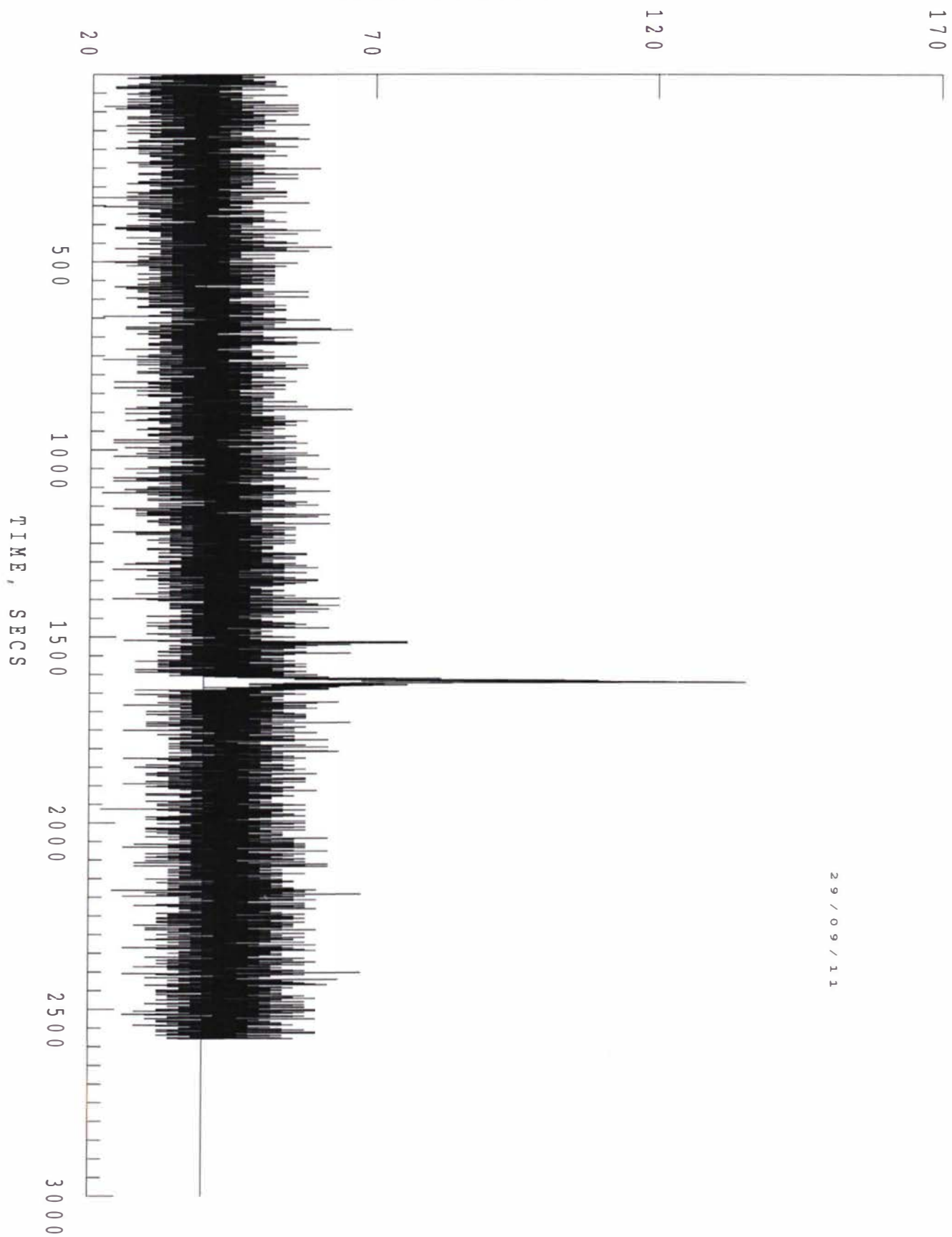
28/09/11

43630.040

c

50 - 3000 keV

COUNTS/0.250 S



C

From williams@gammaburst.ssl.berkeley.edu Wed Sep 28 12:57:38 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Wed, 28 Sep 2011 12:57:04 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI_data_for_KONUS2_20110928_44942
X-Ucb-Scan-Signature: 375c81dc84a116796433be87d427e633c065acd0
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 28-Sep-2011 12:58:47.00
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

SUZAKU

~~27/09/11~~ ~~65820.498~~ ~~28/09/11~~ 12:29:12

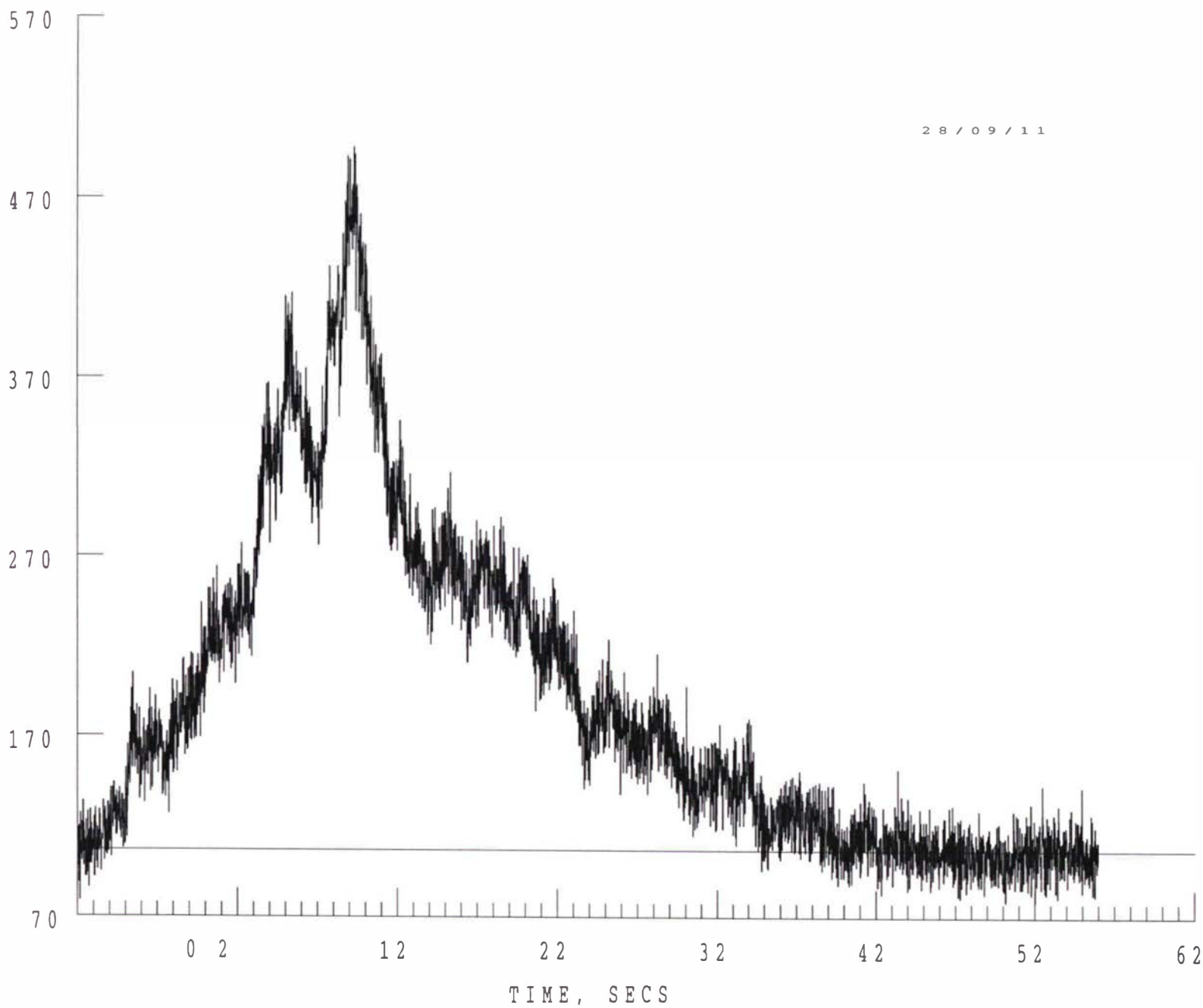
50- 240 keV

~~18:13:00~~

Solar

~~Not in Suzaku list~~

COUNTS/0.016 S



C

From yamaoka@phys.aoyama.ac.jp Mon Dec 5 10:33:42 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Tue, 6 Dec 2011 03:33:33 +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: GRB110927
X-Ucb-Scan-Signature: ele888fb533b082e9653627483820eebe866eadc
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,

The correct time for this burst data is 2011-09-28 12:29:12.488.
It corresponds to the solar flare.

Best wishes,
Kazu

On Mon, 5 Dec 2011 10:07:21 -0800 (PST)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear Kazu,
>
> I have triggered data for a burst on September 27, 2011
> at 65820, but it is not on your list. Is the time correct?
> Do you think it is cosmic?
>
> Kevin

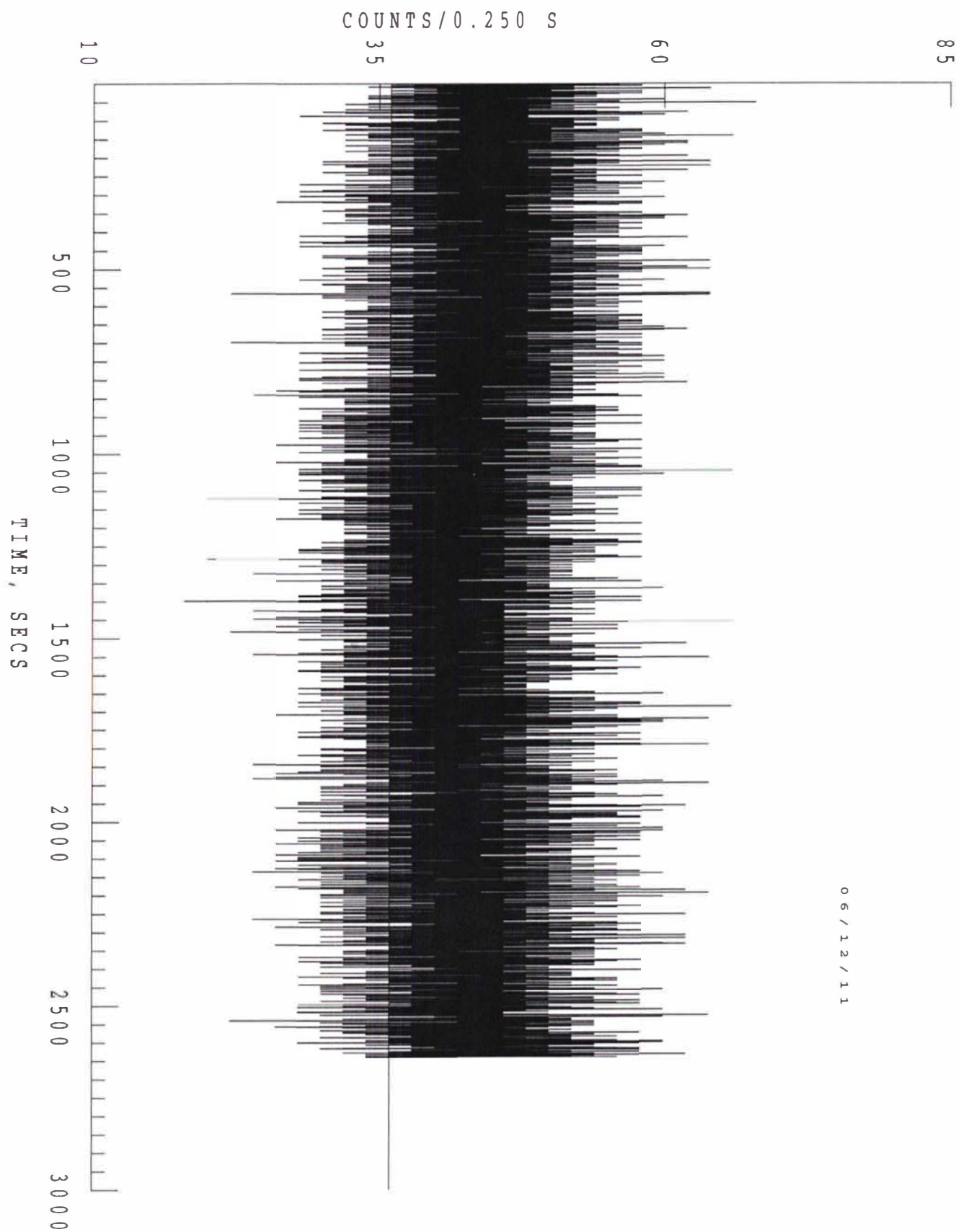
--
Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>

MS01

28/09/11

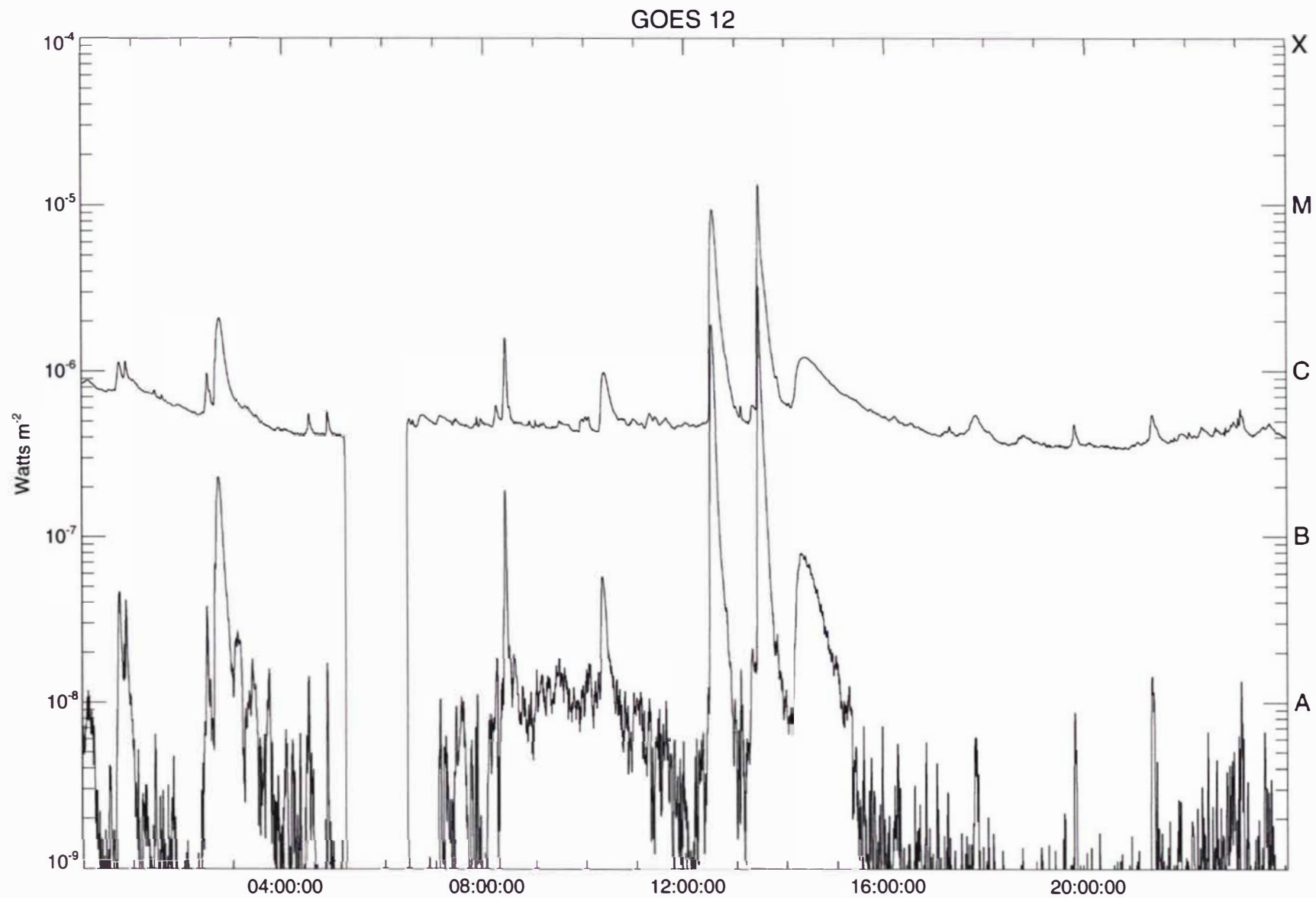
52989.886

50 - 3000 keV



From williams@gammaburst.ssl.berkeley.edu Tue Dec 6 15:05:53 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 6 Dec 2011 15:00:51 -0800 (PST)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_RI_20110928_54324
X-Ucb-Scan-Signature: d74306ccb0d30042cd4fbbcaa516f5cc20ca5540
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
RP_MATCHES_RCVD -1.201'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 6-Dec-2011 15:04:47.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 1.00000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry



Data Start: 11/09/28, 0000:09

Plot created: 11/10/01, 0836

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: Jul 26 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)?
- ☐ 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?

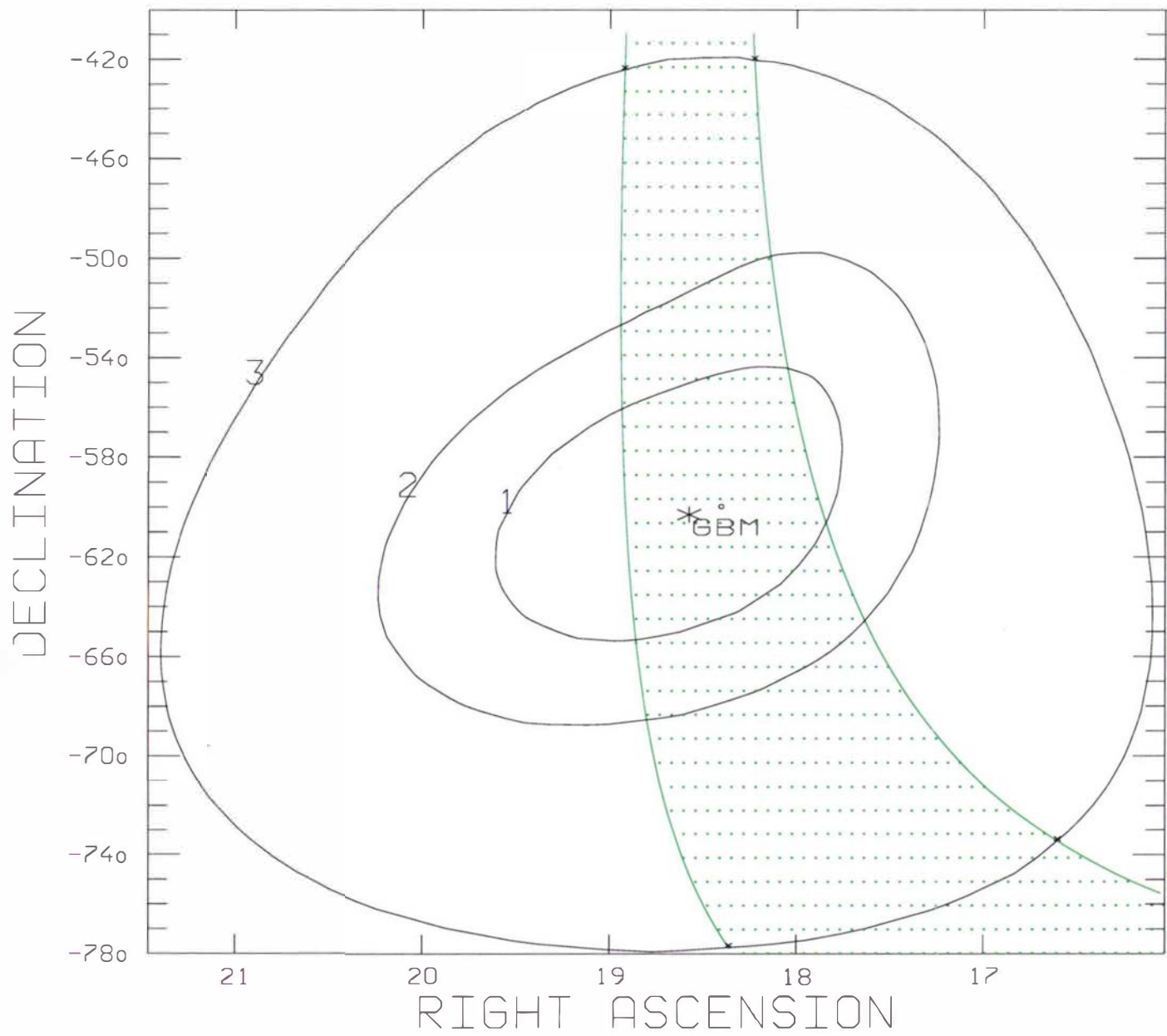
6. For 3 or More Spacecraft events

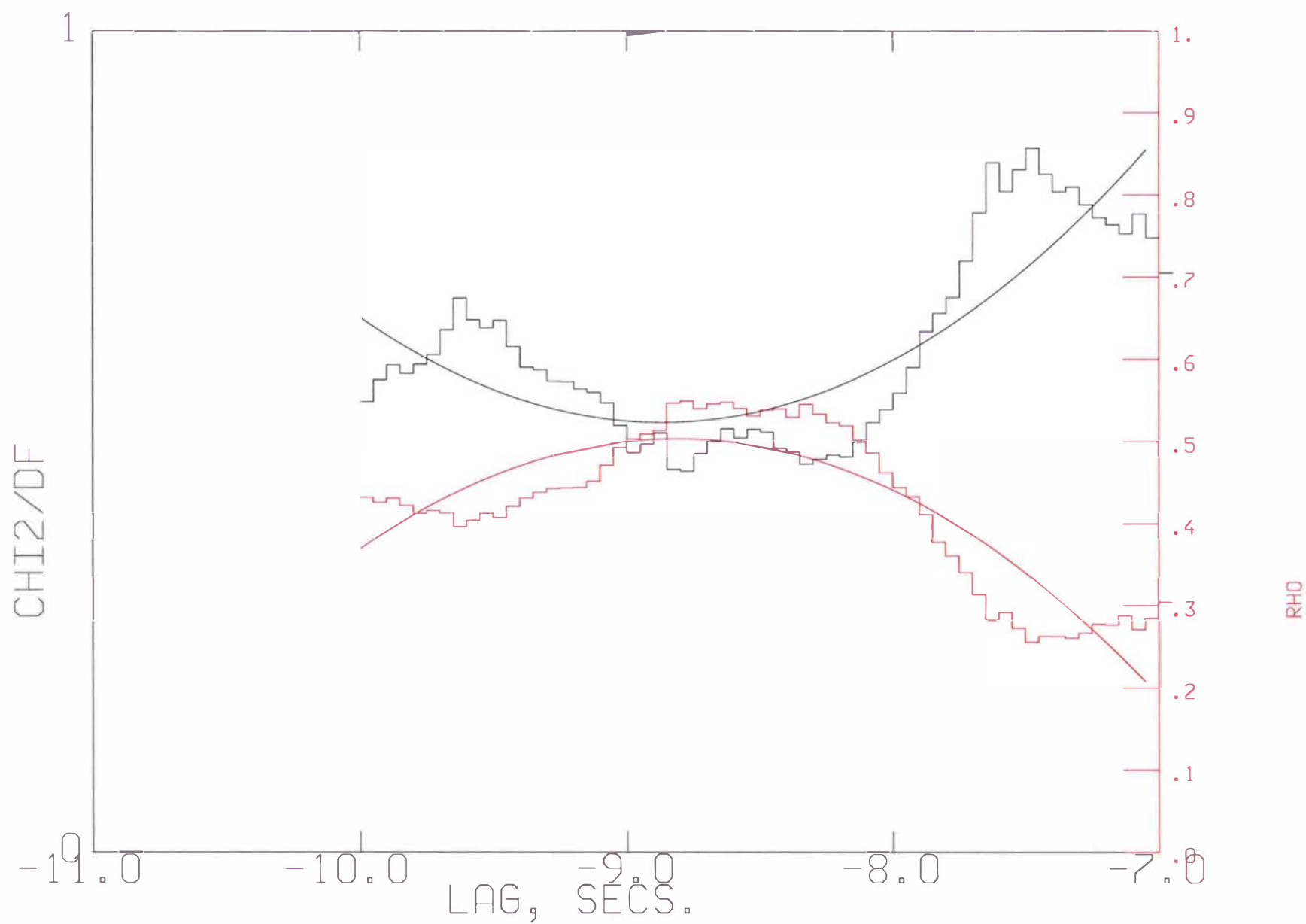
- ☐ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

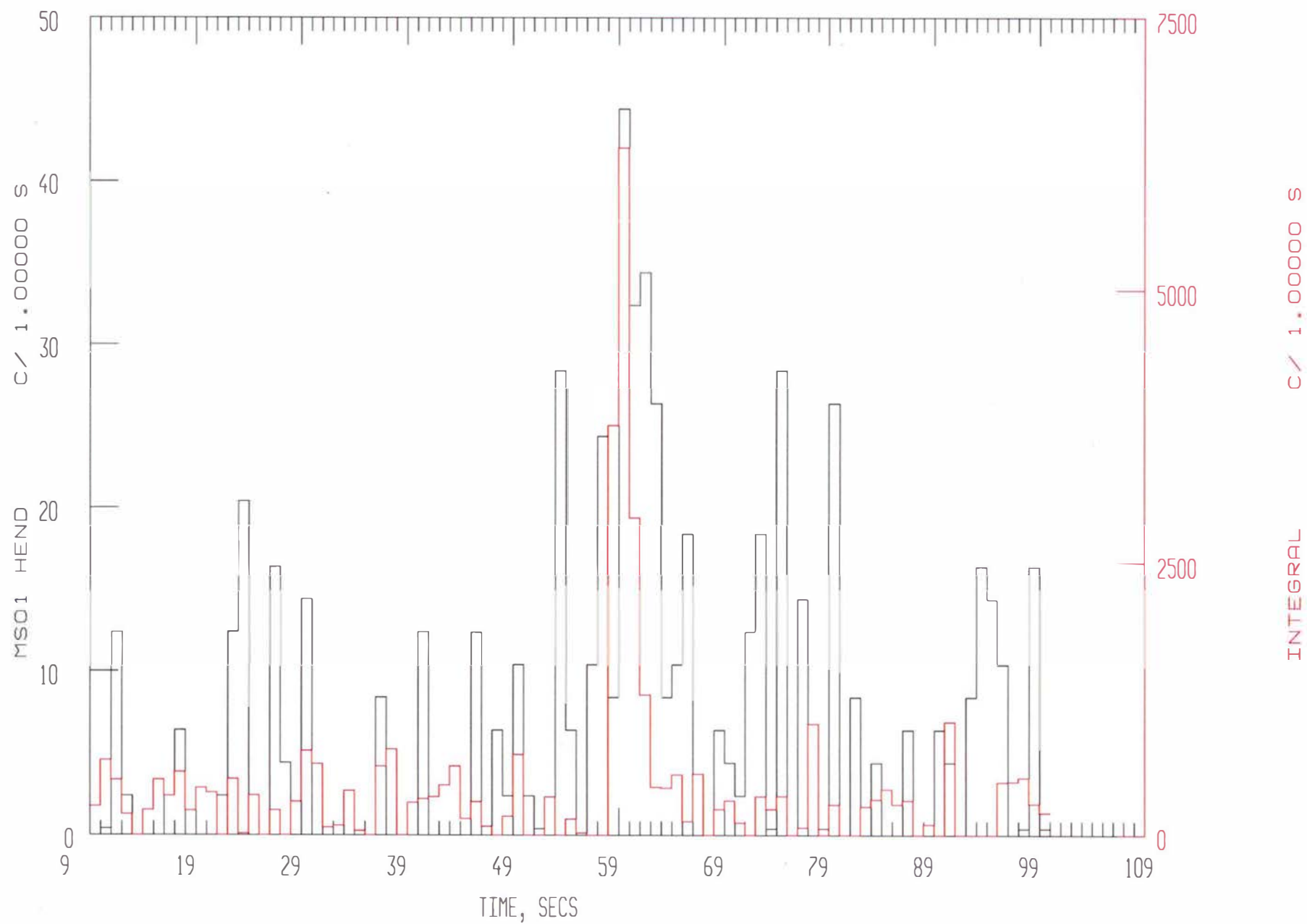
7. For INTEGRAL events

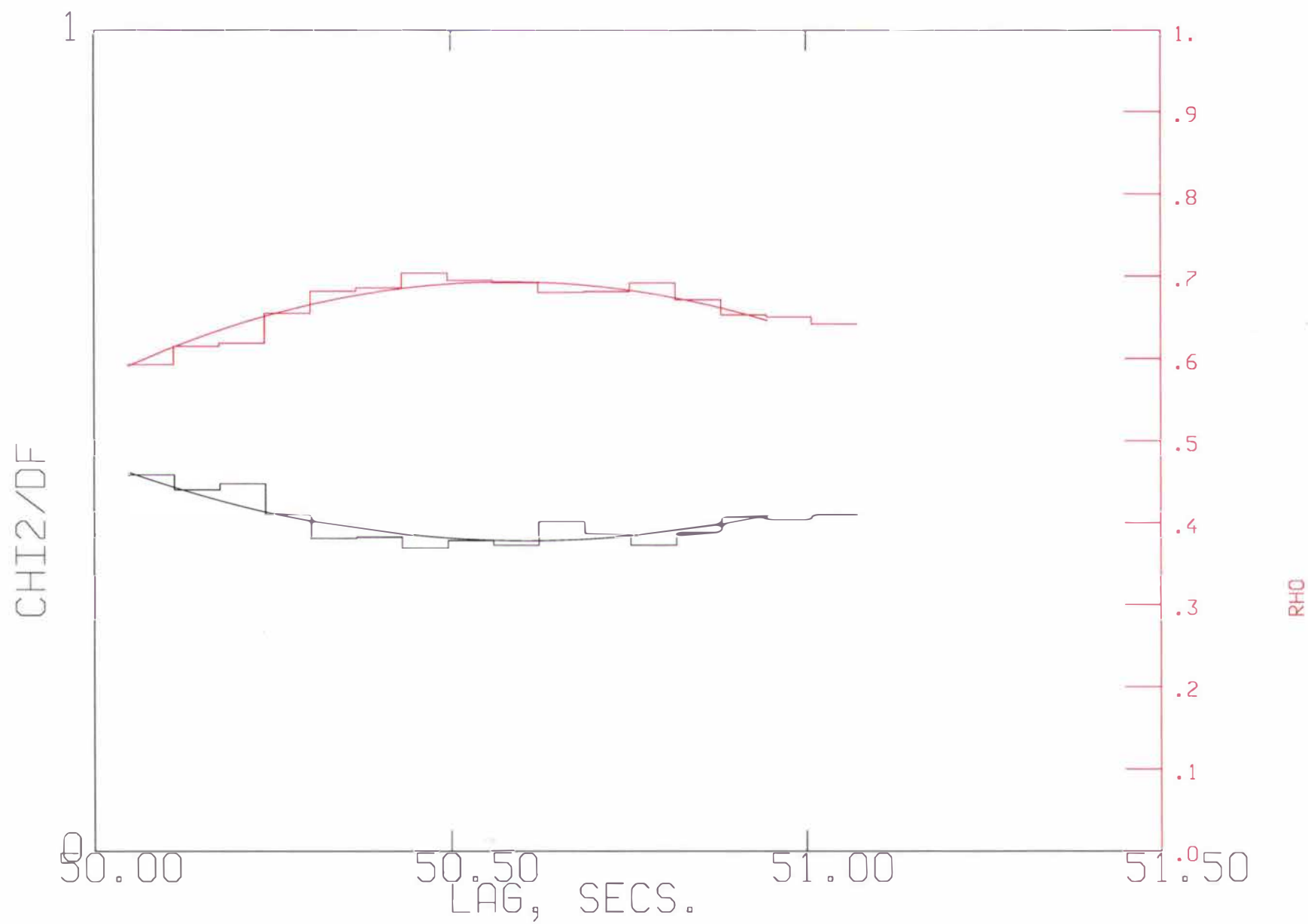
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

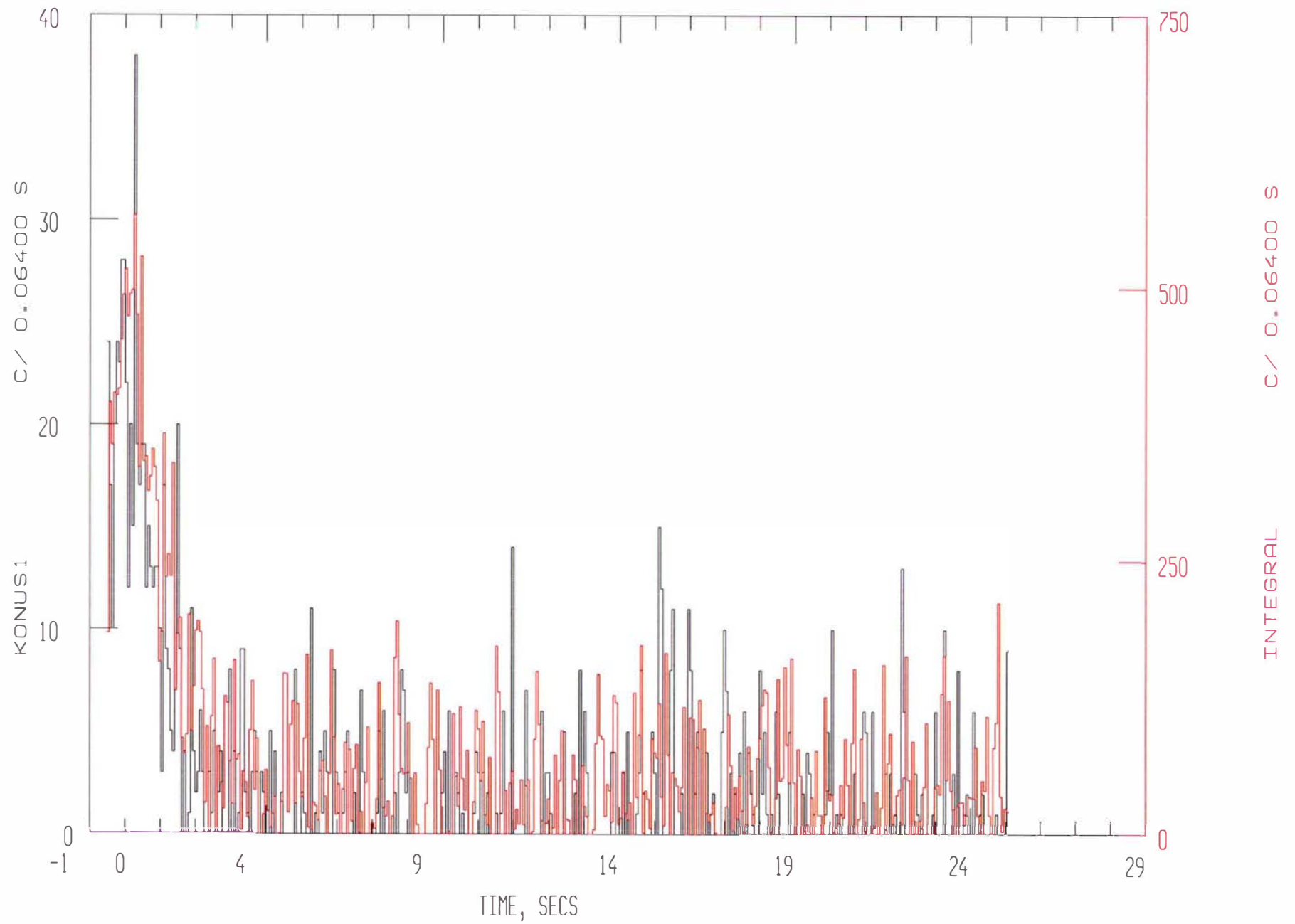
-
- ☒ ACCESS and MBL4 databases updated, with identical times?











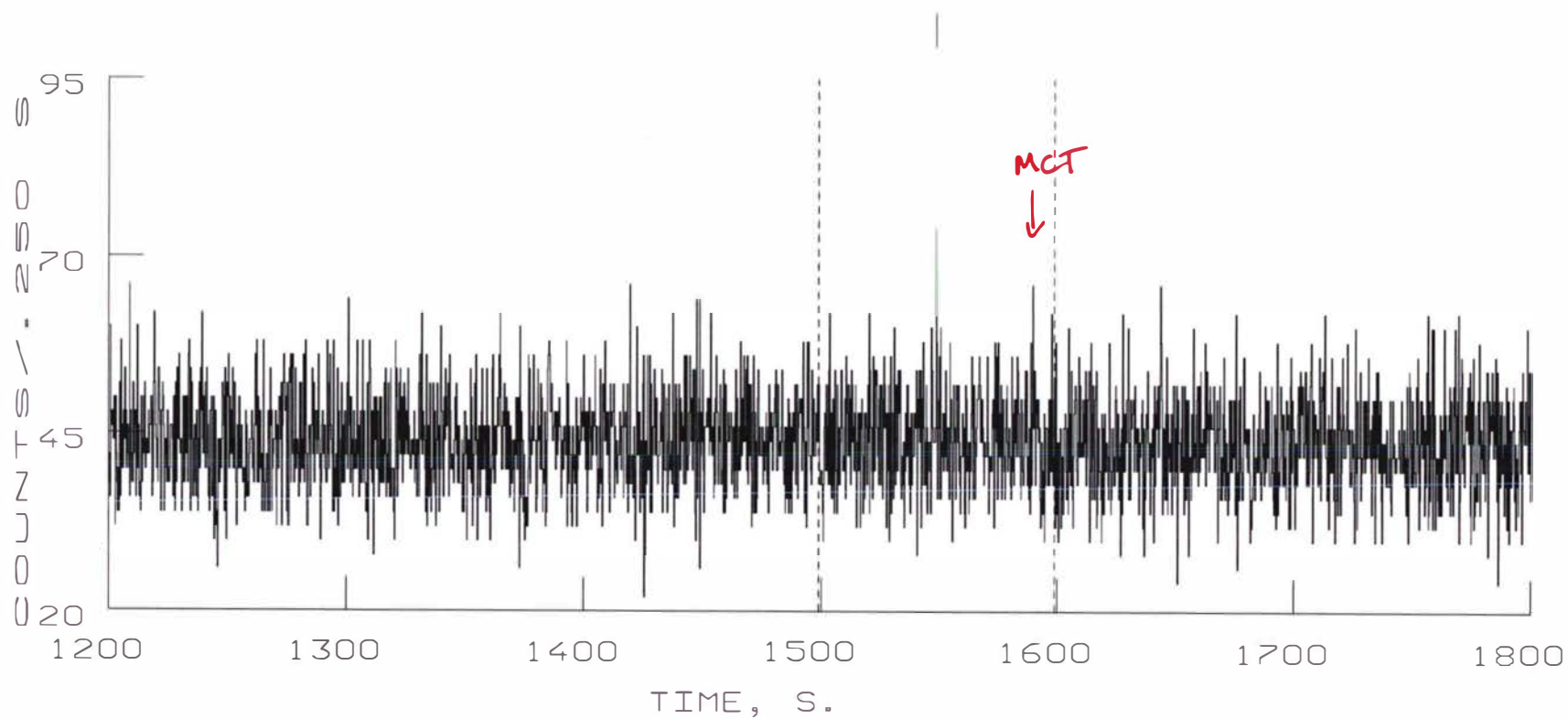
MS01 HEND

26/07/2016

29/09/2011 15189.037 s

50-3000 keV

MAXIMUM



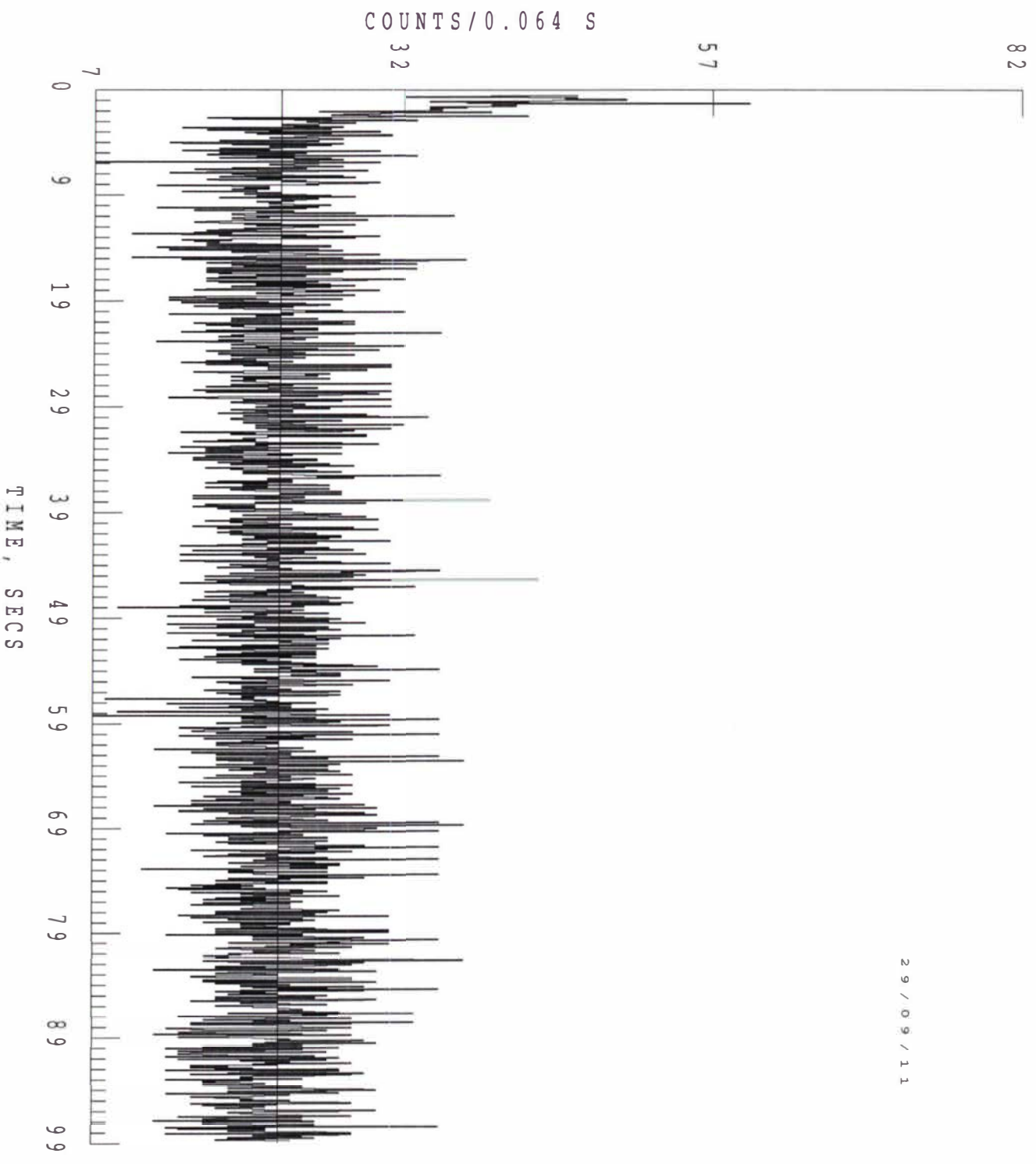
KONUS1

29/09/11

16131.990

A

50 - 200 keV



29/09/11

A

KONUS HRES 20110929 16130

TRIGGER TIME: 29/09/11 DOY 272 Julian 2455834.68670 UT = 04.481 04:28:50 (16131.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

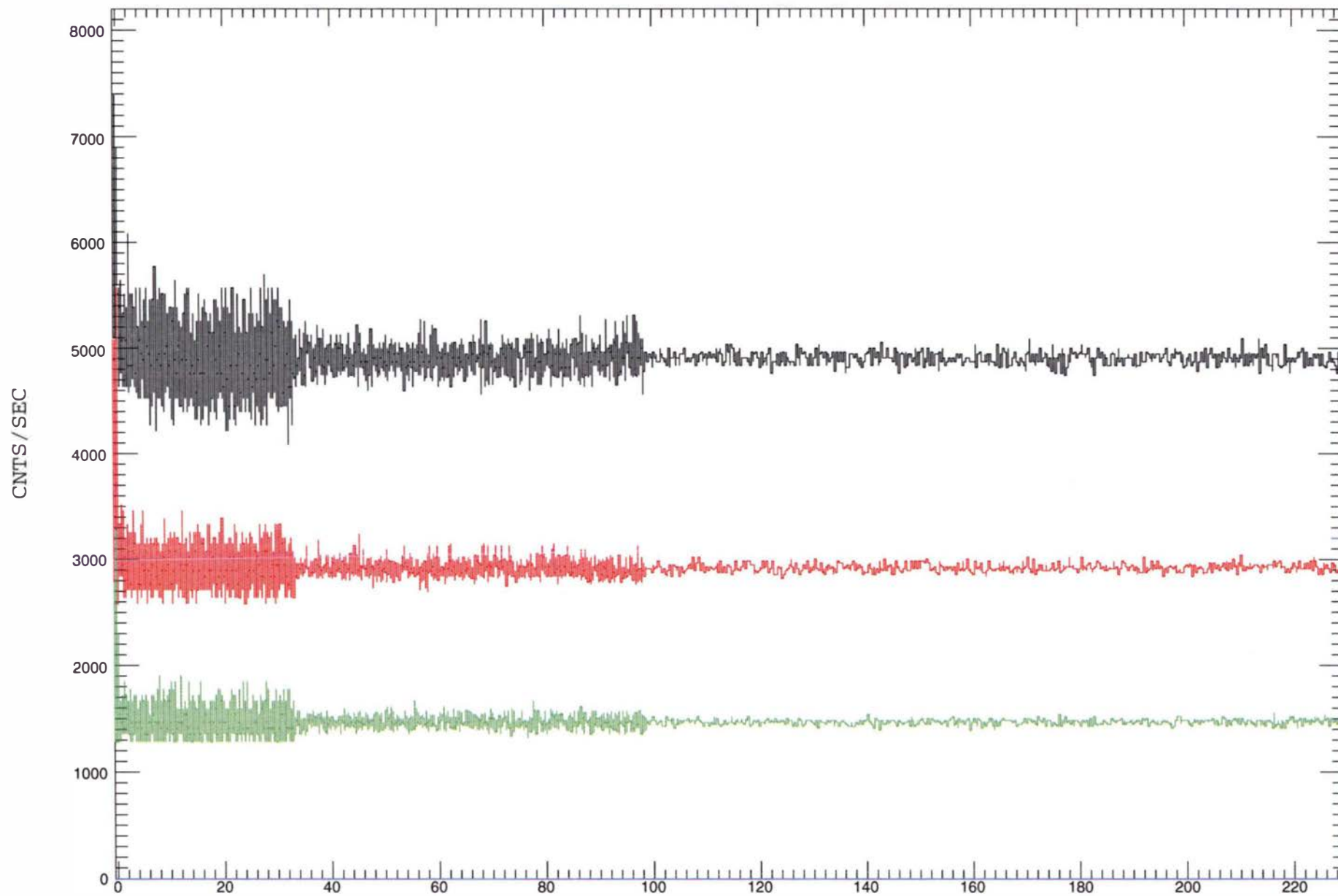
Chan 4 : [> 10 MeV]

Channel 1 + 3900

Channel 2 + 2600

Channel 3 + 1300

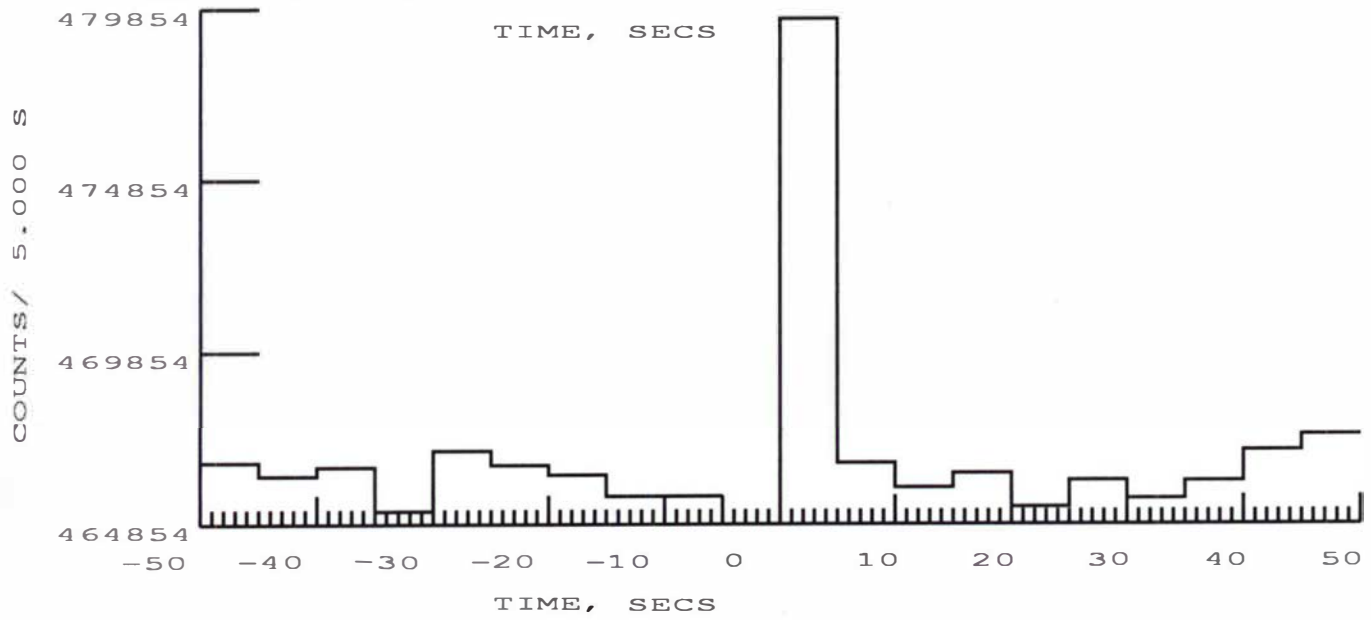
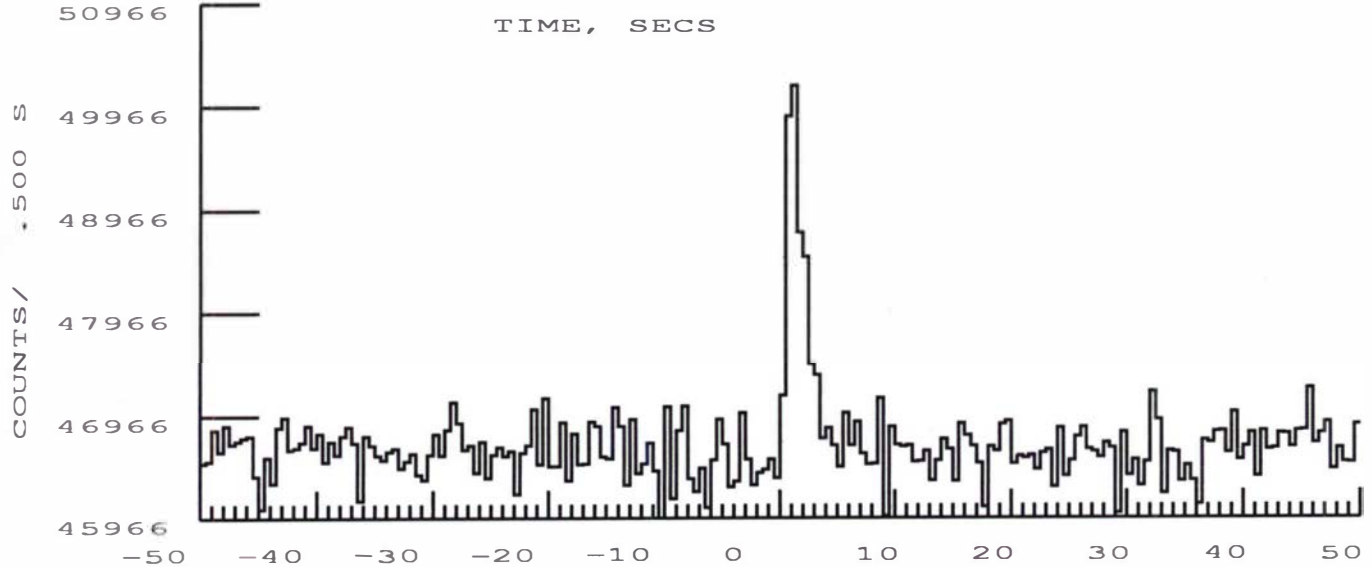
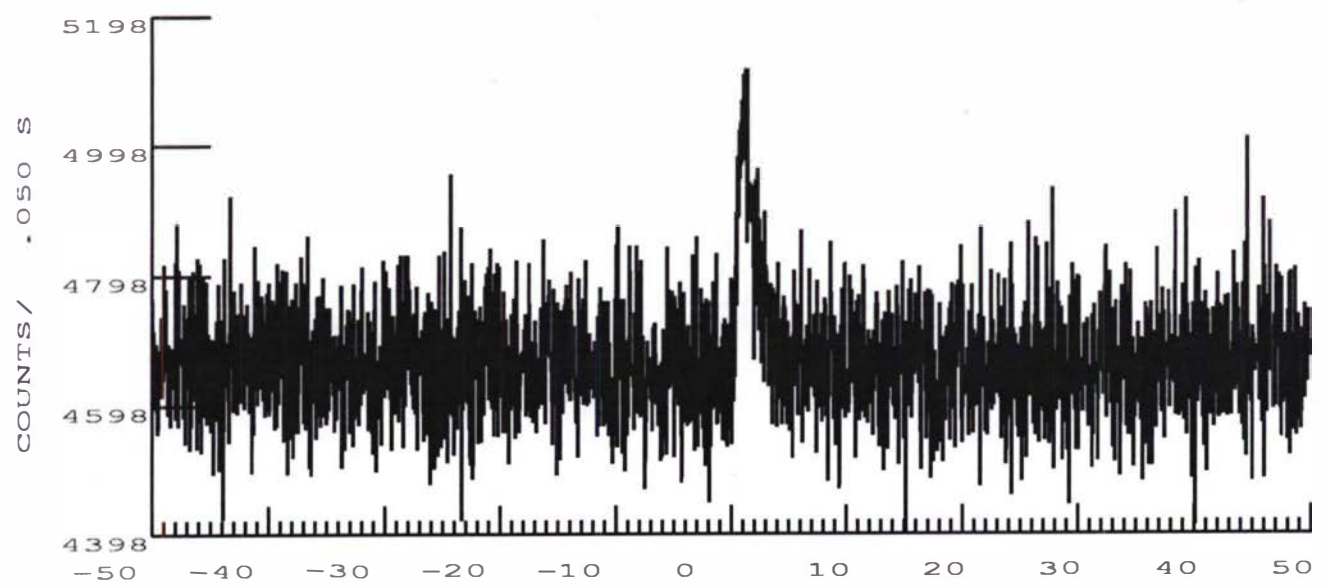
Channel 4 + 0



CONDS

A

INTEGRAL 29/09/11 16133.000 04:28:53.0 20/01/14

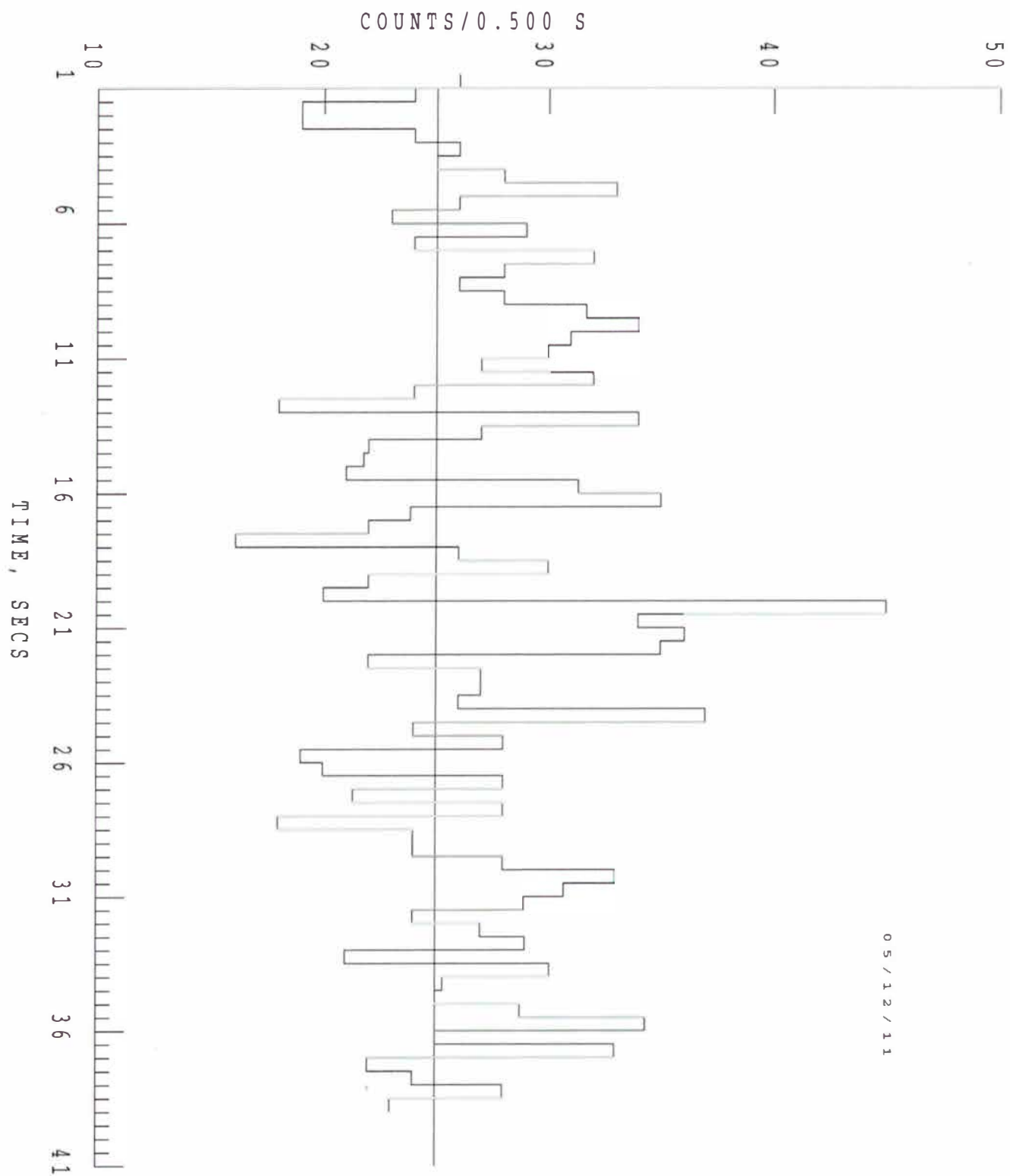


A

HESSI

29/09/11 16113.000 (FERMI_20110929_16133)

25- 150 keV





Subject: [Ipn] BAT lightcurve for trigger at 110929_0428

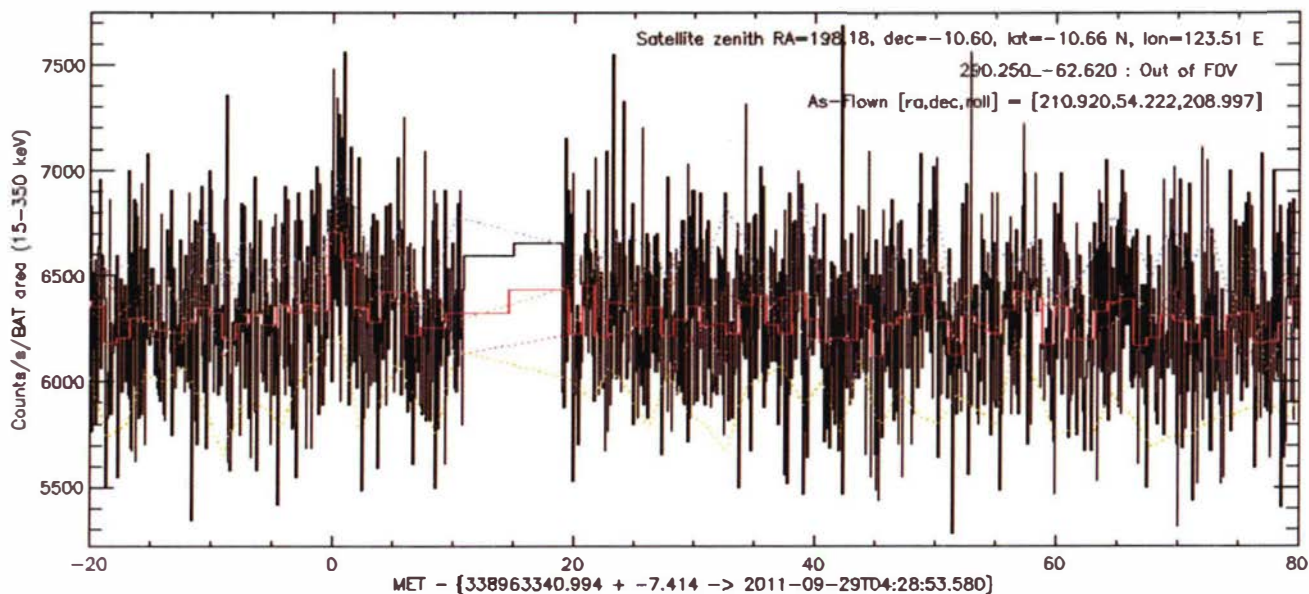
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 29 Sep 2011 03:49:20 -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/110929_0428.png



```
% /usr/local/bin/swinfo -o 338963340.994 -s 261.417 -61.350
Time(MET + UTCF -> UT): 338963340.994 + -7.414 -> 2011-09-29T04:28:53.580
Swift Zenith(RA,dec): 198.18, -10.60
Swift Location(lon,lat,alt): 123.51 E, -10.66 N, 577 km
Obs Sequence Number: 00032101004
Obs Target Name: PTF11kly
Obs Date and Times: 2011-09-29 04:24:54 - 04:50:51
Obs Pointing(ra,dec,roll): 210.920, 54.222, 209.00
261.417_-61.350_imageloc (boresight_dist, angle): (122, -145)
261.417_-61.350_exposure (cm^2 cos adjusted): 0
261.417_-61.350_altitude: 45 (up)
```

```
% /usr/local/bin/swinfo -o 338963340.994 -s 290.250 -62.620
Time(MET + UTCF -> UT): 338963340.994 + -7.414 -> 2011-09-29T04:28:53.580
Swift Zenith(RA,dec): 198.18, -10.60
Swift Location(lon,lat,alt): 123.51 E, -10.66 N, 577 km
Obs Sequence Number: 00032101004
Obs Target Name: PTF11kly
Obs Date and Times: 2011-09-29 04:24:54 - 04:50:51
Obs Pointing(ra,dec,roll): 210.920, 54.222, 209.00
290.250_-62.620_imageloc (boresight_dist, angle): (132, -157)
290.250_-62.620_exposure (cm^2 cos adjusted): 0
290.250_-62.620_altitude: 32 (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/110929_0428_bat64ms_ipn

Content-Type: application/octet-stream

Content-Encoding: base64

/tmp/110929_0428.png

/tmp/110929_0428.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

X

05/12/11

MESSENGER

29/09/11

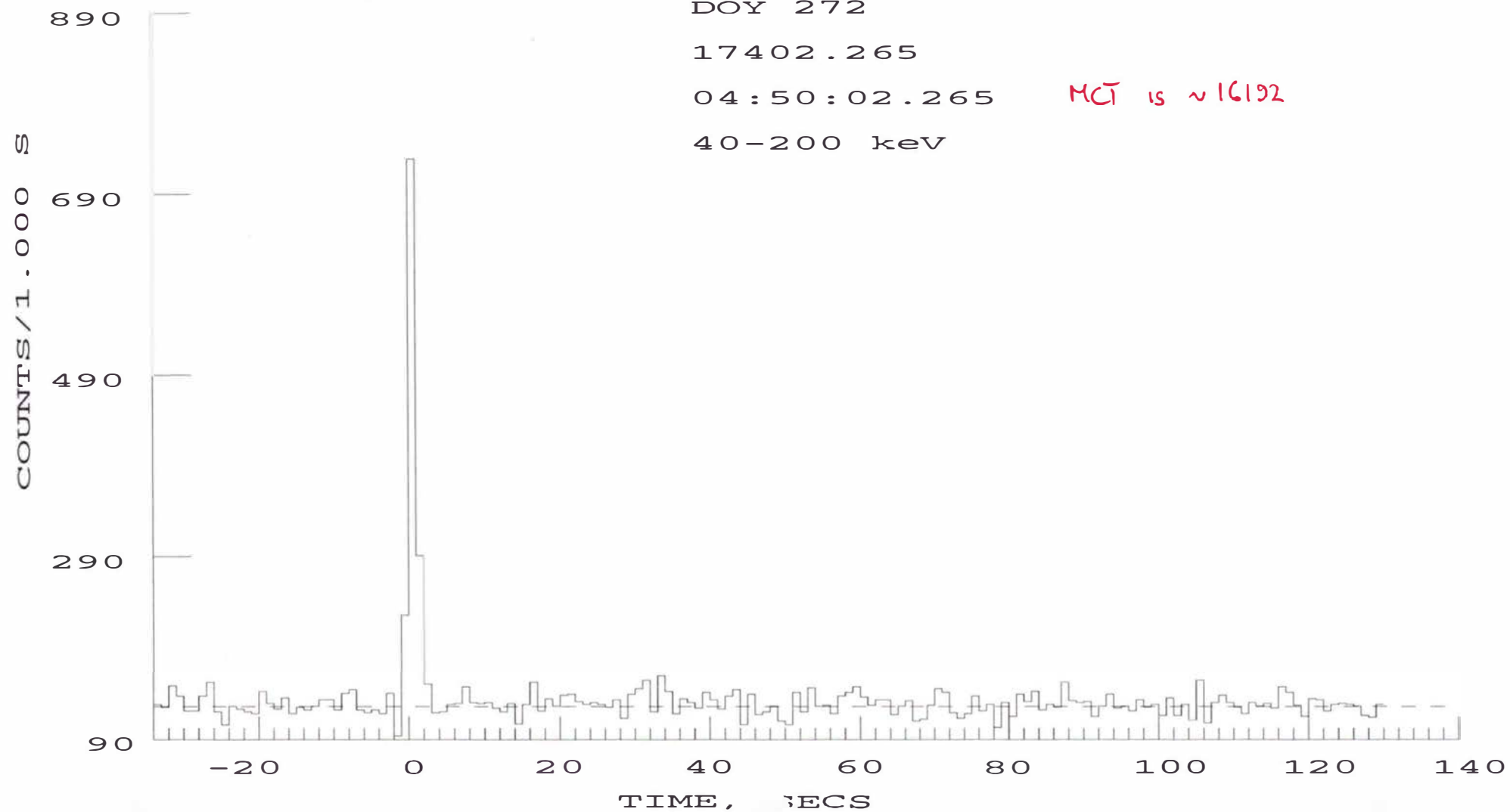
DOY 272

17402.265

04:50:02.265

40-200 keV

MCT is ~16192



A

From ipn-bounces@ssl.berkeley.edu Fri Sep 30 21:38:46 2011
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
Date: Sat, 1 Oct 2011 13:39:21 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: Dmitry Svinkin <svinkin@mail.ioffe.ru>
Cc: IPN <ipn@ssl.berkeley.edu>
Subject: Re: [Ipn] IPN triangulation of GRB 110929(A) (Konus-GBM annulus)
X-Ucb-Scan-Signature: b9f9cf7d6148296a7f6450f0c8d516f5d9a79a8c
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 Dmitry,

Thank you for your localization.

Could you give us the trigger time and light curve plot (or duration) when you report on the localization ?

I first misjudged that your GRB (2011-09-29 04:28:51 UT) and David's GRB (2011-09-29 04:57:34) were the same because the time is close.

The Konus-Fermi GRB was not detected by Suzaku WAM.

Best wishes,
Kazu

On Fri, 30 Sep 2011 16:53:06 +0400
Dmitry Svinkin <svinkin@mail.ioffe.ru> wrote:

> Dear colleagues,
>
> We have triangulated GRB 110929(A) (Fermi/GBM trigger 338963335) to a
> Konus-GBM annulus centered at RA(2000)=207.203 deg (13h 48m 49s)
> Dec(2000)=-10.438 deg (-10d 26' 15"), whose radius is 69.437 !^ 4.21
> deg (3 sigma).
>
> The GBM localization RA, Dec, ERR RAD = 288.190, -62.210, 4.03 deg is
> consistent wit the Konus-GBM annulus (see the attached figure).
>
> Best wishes,
>
> Dmitry
>

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

A

GLAST

29/09/11

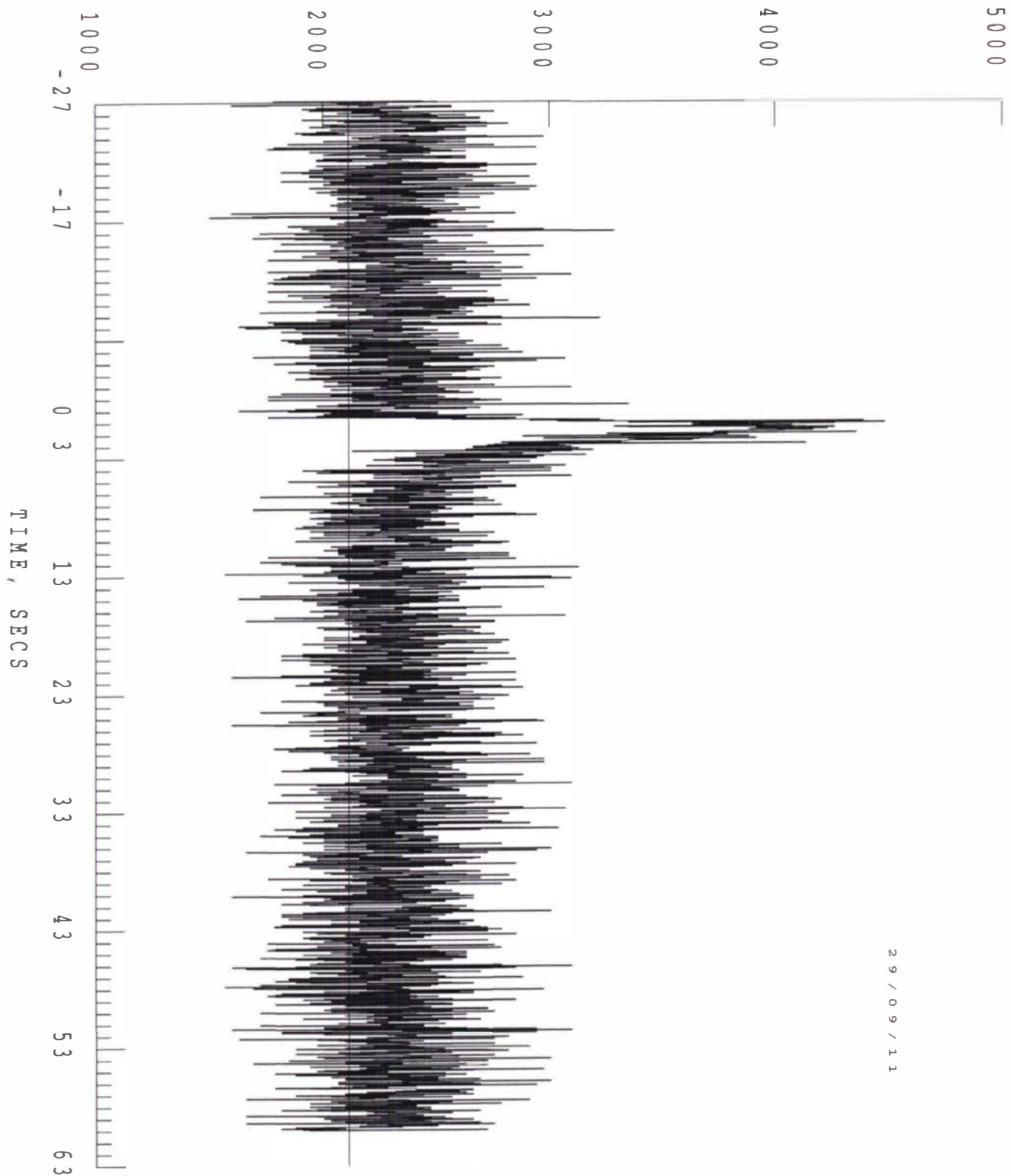
16133.585

04:28:53

26- 293 keV

288.19 -61.79 4.03

COUNTS/0.032 S



B

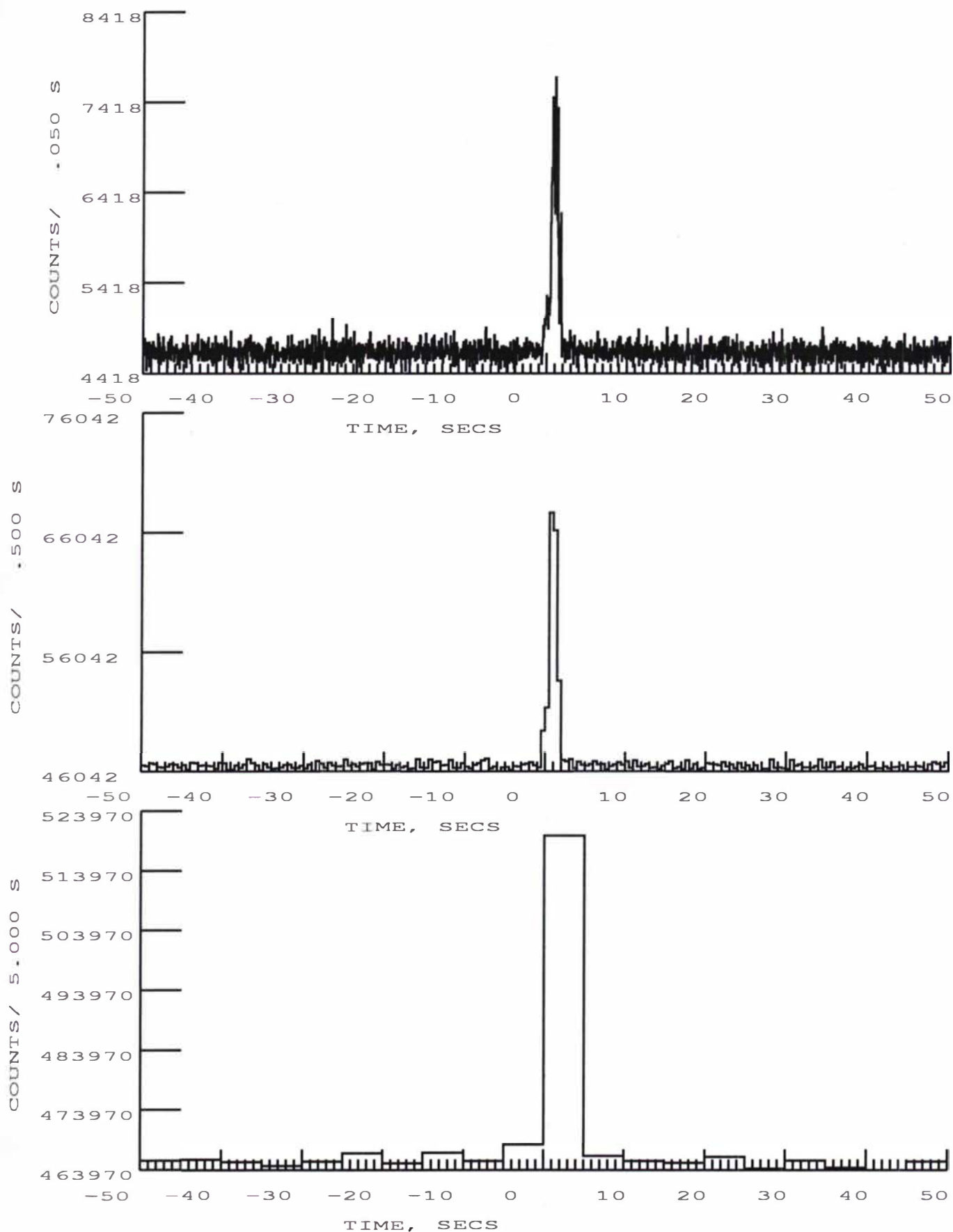
INTEGRAL

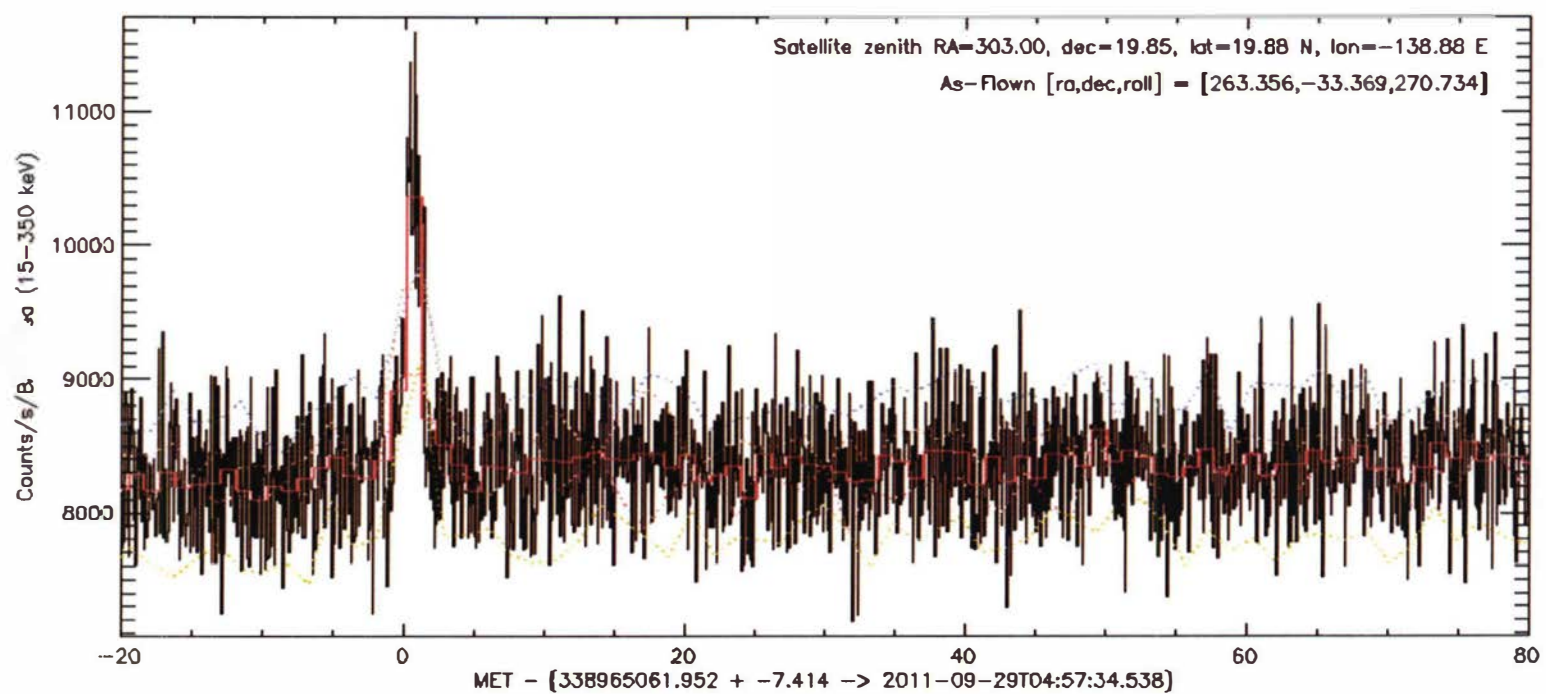
29/09/11

17854.000

04:57:34.0

20/01/14





17854

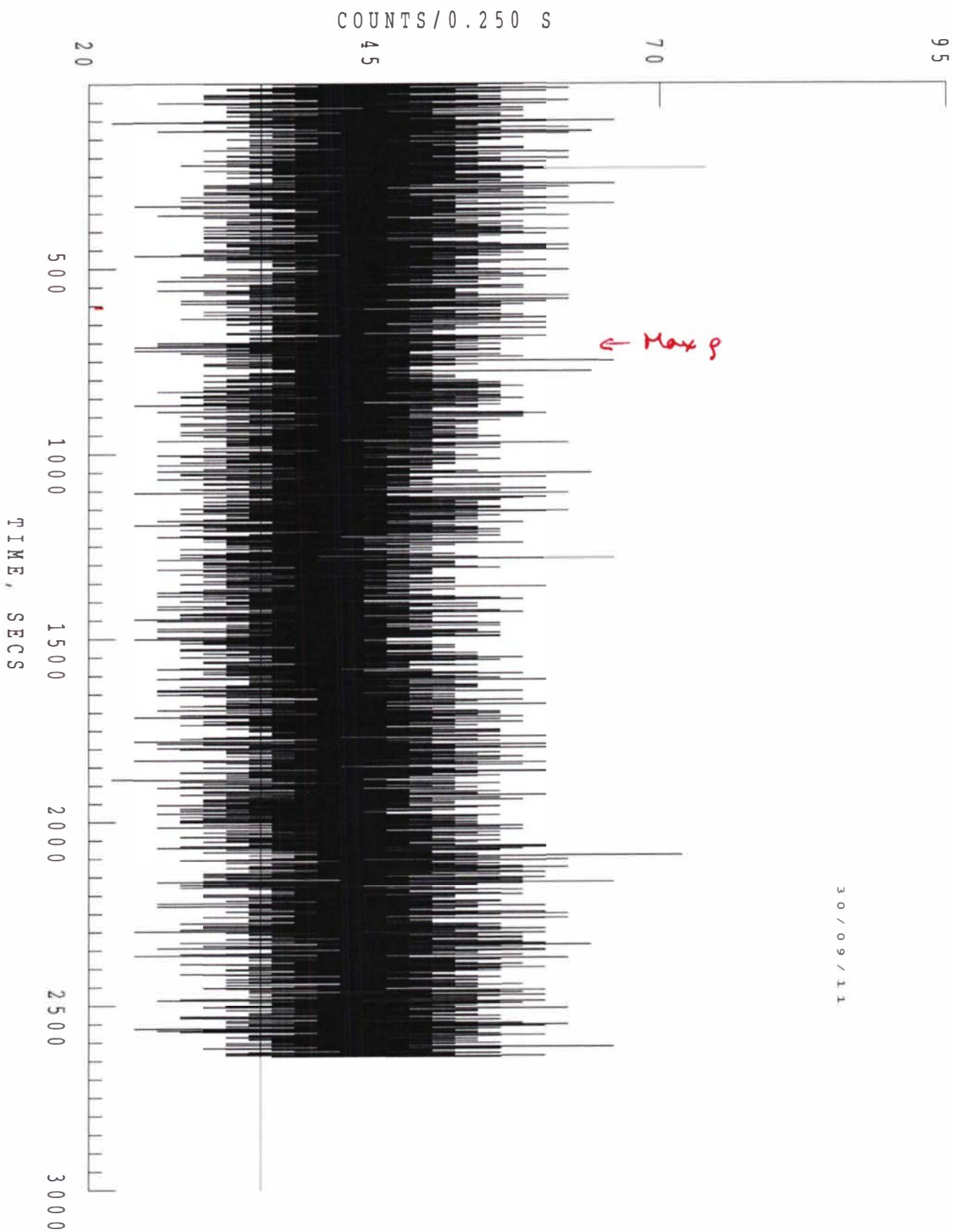
MS01

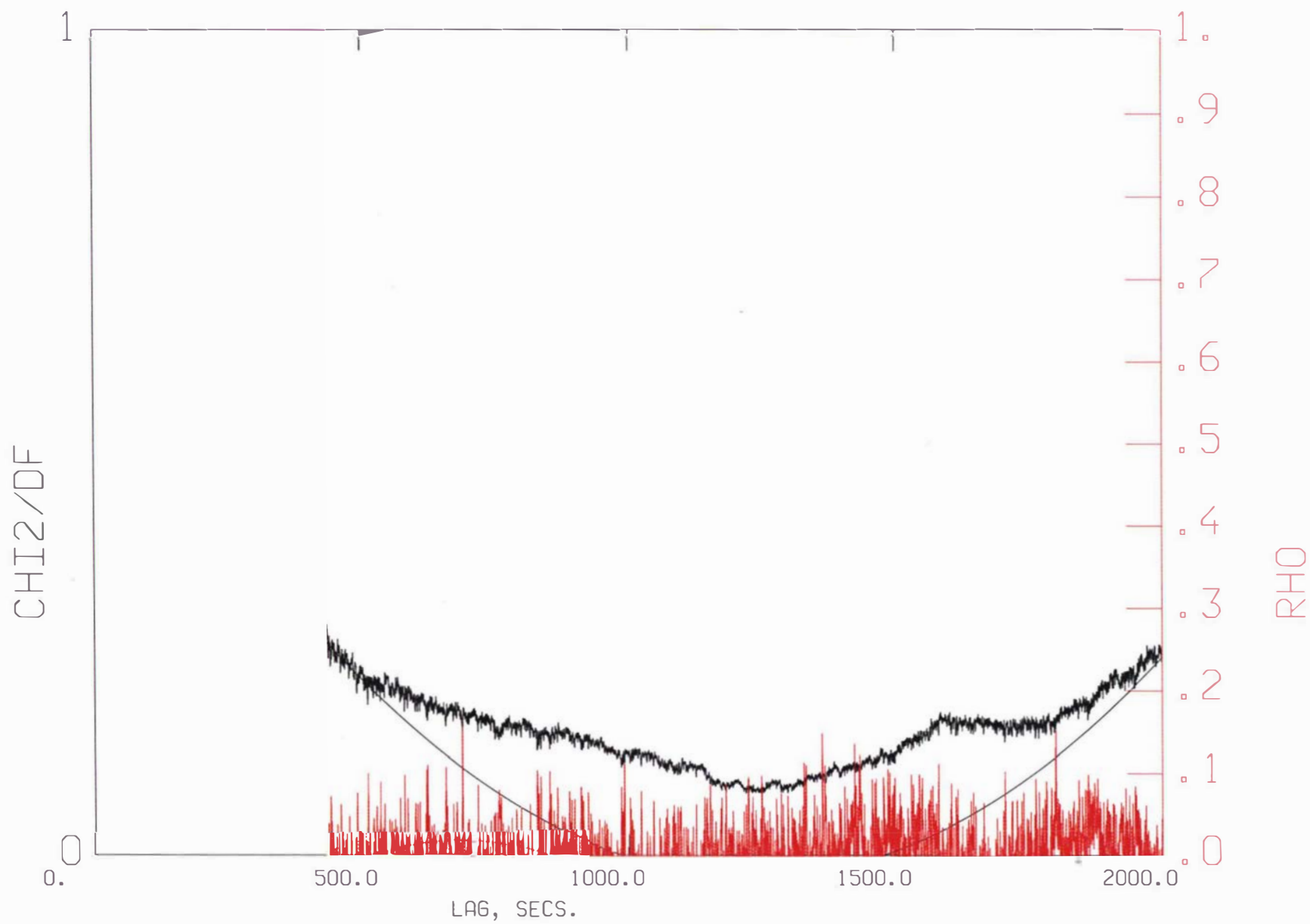
29/09/11

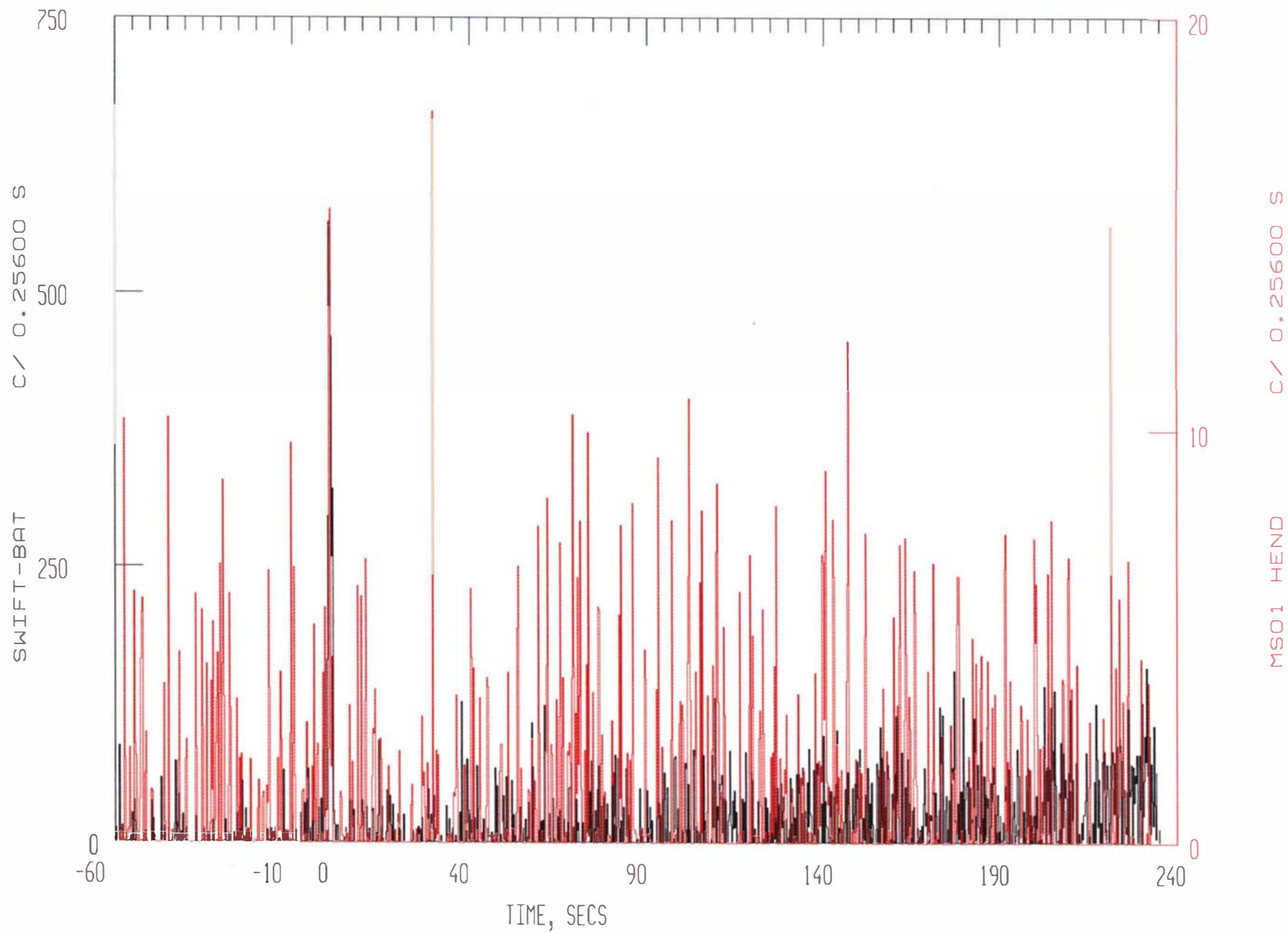
16509.015

B

50 - 3000 keV





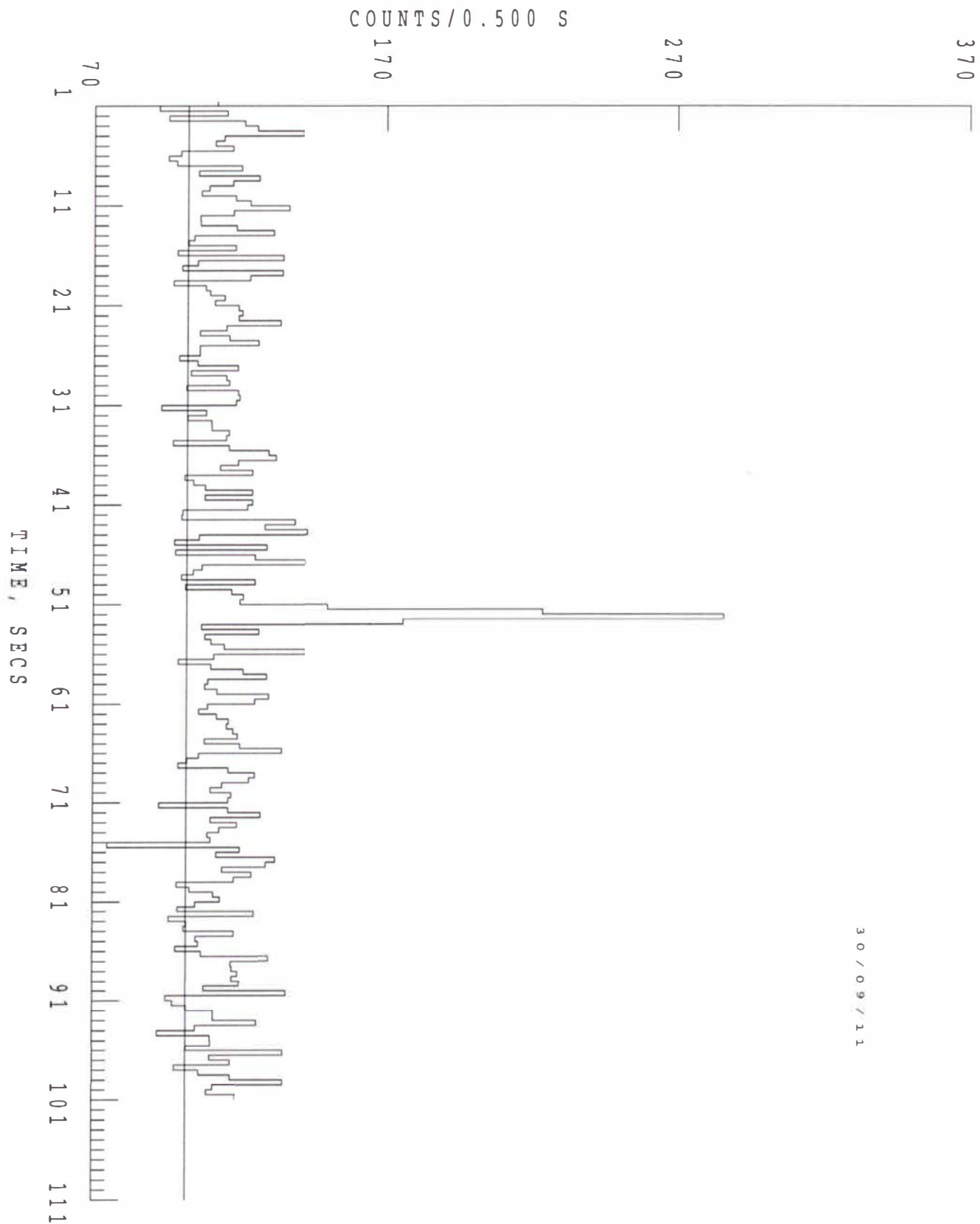


HESSI

29/09/11 17803.000 (SWIFT_20110929_17854)

B

25- 150 keV



SUZAKU

29/09/11

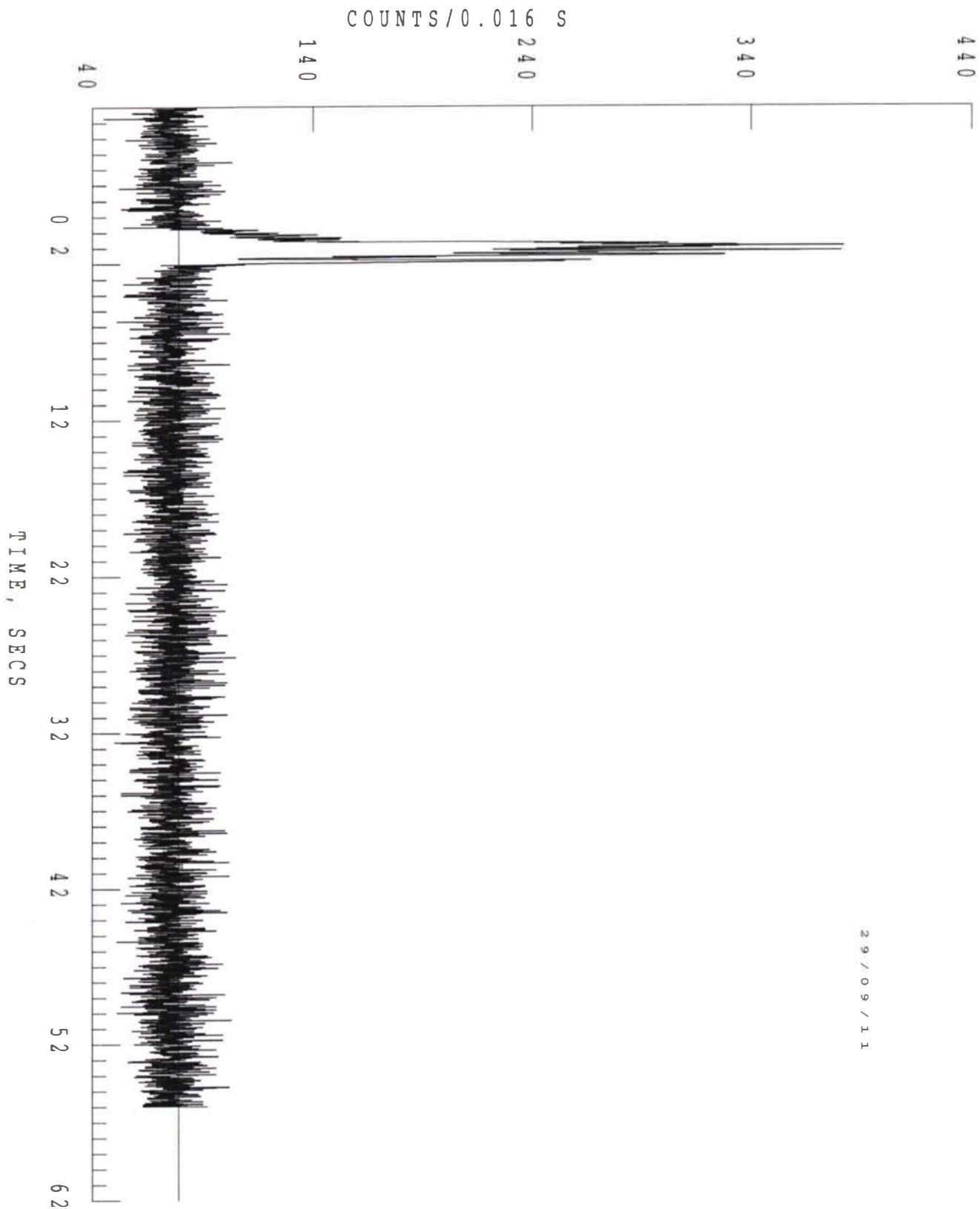
~~53797.977~~ ~~14:56:37~~

ED

50 - 240 keV

04:57:34

B



B

From yamaoka@phys.aoyama.ac.jp Wed Nov 23 18:54:25 2011
X-Barracuda-Envelope-From: yamaoka@phys.aoyama.ac.jp
Date: Thu, 24 Nov 2011 11:58:33 +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: Suzaku event on September 29
X-Ucb-Scan-Signature: 8461d267730de80aa04717ad9412af58577a822c
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,

This one also has an incorrect time. The correct time is
* 2011-09-29 04:57:33.981 1.7 BAT(o),RHESSI

Best wishes,
Kazu

On Wed, 23 Nov 2011 11:17:59 -0800 (PST)
Kevin Hurley <khurley@ssl.berkeley.edu> wrote:

> Dear Kazu,
>
> There is a trigger on September 29 2011 at 53797 s which looks cosmic,
> but is not on your list. What do you think it is?
>
> Kevin

--

Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>

From ipn-bounces@ssl.berkeley.edu Fri Sep 30 21:43:43 2011
 X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
 Date: Sat, 1 Oct 2011 13:42:55 +0900
 From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
 To: 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 out-of-field burst at 4:57 UT
 X-Ucb-Scan-Signature: be729a7fc577e25a5b198082f6e5ac35bf9f21df
 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 David,

This burst triggered the Suzaku WAM
 on 2011-9-29 04:57:33.980.

Best wishes,
 Kazu

On Thu, 29 Sep 2011 13:32:24 -0600
 David Palmer <palmer@lanl.gov> wrote:

```
> Possible out-of-field burst at 4:57:34.538 .    Nothing seen in images.
>
> % /usr/local/bin/swinfo  -o 338965061.952
> Time(MET + UTCF -> UT):      338965061.952 + -7.414 -> 2011-09-29T04:57:34.53
> Swift Zenith(RA,dec):        303.00, 19.85
> Swift Location(lon,lat,alt):  -138.88 E, 19.88 N, 584 km
> Obs Sequence Number:         00031360014
> Obs Target Name:             The Rapid Burster
> Obs Date and Times:          2011-09-29  04:50:54 - 05:02:53
> Obs Pointing(ra,dec,roll):   263.356, -33.369, 270.73
>
>
```

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

Subject: [lpn] BAT lightcurve for trigger at 110929_0817

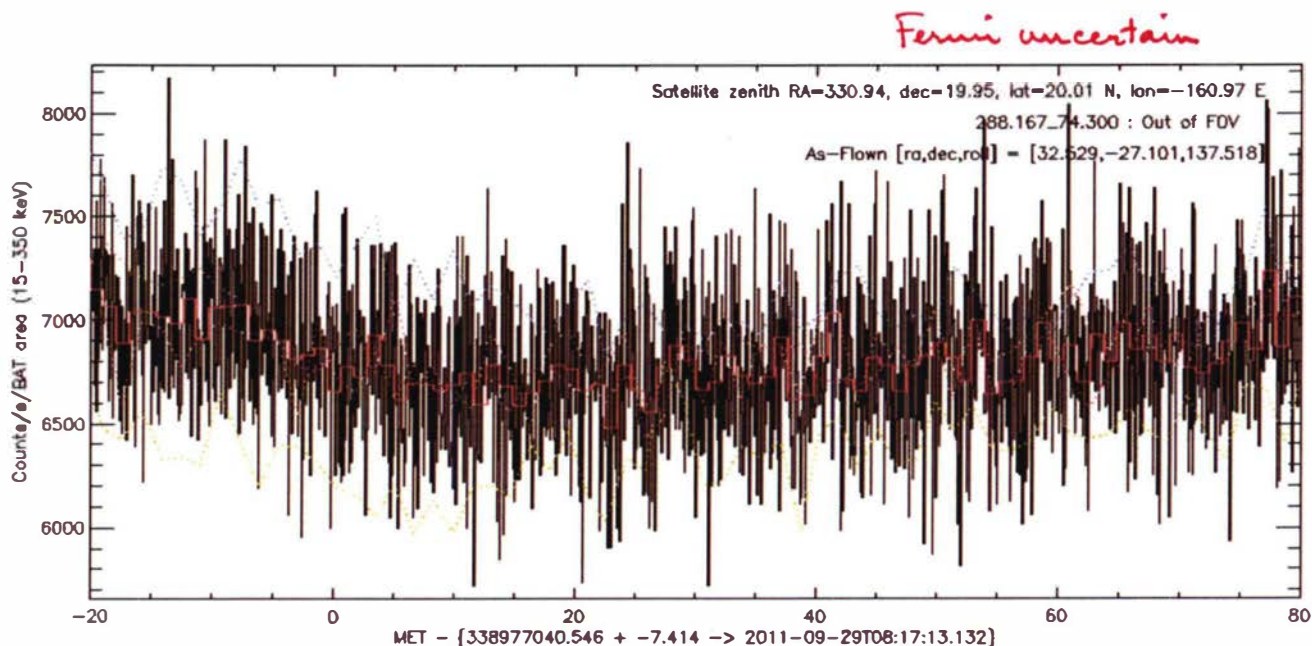
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 29 Sep 2011 05:50:36 -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/110929_0817.png



```
% /usr/local/bin/swinfo -o 338977040.546 -s 284.717_76.733
Time(MET + UTCF -> UT): 338977040.546 + -7.414 -> 2011-09-29T08:17:13.132
Swift Zenith(RA,dec): 330.94, 19.95
Swift Location(lon,lat,alt): -160.97 E, 20.01 N, 588 km
Obs Sequence Number: 00020187012
Obs Target Name: GRB 110918A
Obs Date and Times: 2011-09-29 08:15:54 - 08:29:49
Obs Pointing(ra,dec,roll): 32.529, -27.101, 137.52
284.717_76.733_imageloc (boresight_dist, angle): (120, 118)
284.717_76.733_exposure (cm^2 cos adjusted): 0
284.717_76.733_altitude: 52 (up)

% /usr/local/bin/swinfo -o 338977040.546 -s 285.550_76.183
Time(MET + UTCF -> UT): 338977040.546 + -7.414 -> 2011-09-29T08:17:13.132
Swift Zenith(RA,dec): 330.94, 19.95
Swift Location(lon,lat,alt): -160.97 E, 20.01 N, 588 km
Obs Sequence Number: 00020187012
Obs Target Name: GRB 110918A
Obs Date and Times: 2011-09-29 08:15:54 - 08:29:49
Obs Pointing(ra,dec,roll): 32.529, -27.101, 137.52
285.550_76.183_imageloc (boresight_dist, angle): (120, 117)
285.550_76.183_exposure (cm^2 cos adjusted): 0
285.550_76.183_altitude: 53 (up)

% /usr/local/bin/swinfo -o 338977040.546 -s 286.217_75.717
Time(MET + UTCF -> UT): 338977040.546 + -7.414 -> 2011-09-29T08:17:13.132
Swift Zenith(RA,dec): 330.94, 19.95
Swift Location(lon,lat,alt): -160.97 E, 20.01 N, 588 km
Obs Sequence Number: 00020187012
Obs Target Name: GRB 110918A
Obs Date and Times: 2011-09-29 08:15:54 - 08:29:49
Obs Pointing(ra,dec,roll): 32.529, -27.101, 137.52
286.217_75.717_imageloc (boresight_dist, angle): (120, 117)
286.217_75.717_exposure (cm^2 cos adjusted): 0
286.217_75.717_altitude: 53 (up)

% /usr/local/bin/swinfo -o 338977040.546 -s 287.100_75.083
Time(MET + UTCF -> UT): 338977040.546 + -7.414 -> 2011-09-29T08:17:13.132
Swift Zenith(RA,dec): 330.94, 19.95
```

[Ipn] BAT lightcurve for trigger at 110929_0817

```
Swift Location(lon,lat,alt): -160.97 E, 20.01 N, 588 km
Obs Sequence Number: 00020187012
Obs Target Name: GRB 110918A
Obs Date and Times: 2011-09-29 08:15:54 - 08:29:49
Obs Pointing(ra,dec,roll): 32.529, -27.101, 137.52
287.100_75.083_imageloc (boresight_dist, angle): (120, 116)
287.100_75.083_exposure (cm^2 cos adjusted): 0
287.100_75.083_altitude: 54 (up)

% /usr/local/bin/swinfo -o 338977040.546 -s 288.167_74.300
Time(MET + UTCF -> UT): 338977040.546 + -7.414 -> 2011-09-29T08:17:13.132
Swift Zenith(RA,dec): 330.94, 19.95
Swift Location(lon,lat,alt): -160.97 E, 20.01 N, 588 km
Obs Sequence Number: 00020187012
Obs Target Name: GRB 110918A
Obs Date and Times: 2011-09-29 08:15:54 - 08:29:49
Obs Pointing(ra,dec,roll): 32.529, -27.101, 137.52
288.167_74.300_imageloc (boresight_dist, angle): (120, 115)
288.167_74.300_exposure (cm^2 cos adjusted): 0
288.167_74.300_altitude: 55 (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/110929_0817.png

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

/tmp/110929_0817_bat64ms_ipn

/tmp/110929_0817_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 110929_0636

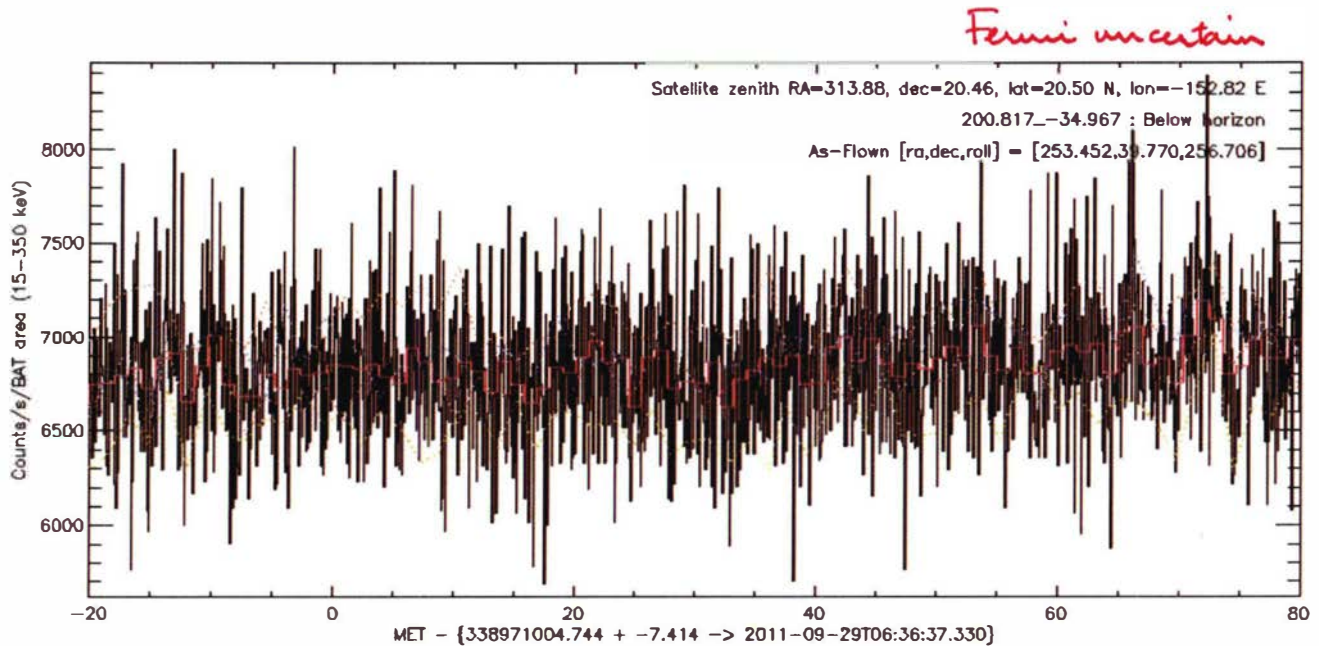
From: palmer+automatic_lightcurve@lanl.gov

Date: Thu, 29 Sep 2011 03:49:21 -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/110929_0636.png



```
% /usr/local/bin/swinfo -o 338971004.744 -s 187.233_-42.350
Time(MET + UTCF -> UT): 338971004.744 + -7.414 -> 2011-09-29T06:36:37.330
Swift Zenith(RA,dec): 313.88, 20.46
Swift Location(lon,lat,alt): -152.82 E, 20.50 N, 586 km
Obs Sequence Number: 00091138031
Obs Target Name: MRK501
Obs Date and Times: 2011-09-29 06:19:54 - 06:39:48
Obs Pointing(ra,dec,roll): 253.452, 39.770, 256.71
187.233_-42.350_imageloc (boresight_dist, angle): (102, -123)
187.233_-42.350_exposure (cm^2 cos adjusted): 0
187.233_-42.350_altitude: -17 (down)

% /usr/local/bin/swinfo -o 338971004.744 -s 192.383_-38.300
Time(MET + UTCF -> UT): 338971004.744 + -7.414 -> 2011-09-29T06:36:37.330
Swift Zenith(RA,dec): 313.88, 20.46
Swift Location(lon,lat,alt): -152.82 E, 20.50 N, 586 km
Obs Sequence Number: 00091138031
Obs Target Name: MRK501
Obs Date and Times: 2011-09-29 06:19:54 - 06:39:48
Obs Pointing(ra,dec,roll): 253.452, 39.770, 256.71
192.383_-38.300_imageloc (boresight_dist, angle): (96, -123)
192.383_-38.300_exposure (cm^2 cos adjusted): 0
192.383_-38.300_altitude: -13 (down)

% /usr/local/bin/swinfo -o 338971004.744 -s 193.233_-38.383
Time(MET + UTCF -> UT): 338971004.744 + -7.414 -> 2011-09-29T06:36:37.330
Swift Zenith(RA,dec): 313.88, 20.46
Swift Location(lon,lat,alt): -152.82 E, 20.50 N, 586 km
Obs Sequence Number: 00091138031
Obs Target Name: MRK501
Obs Date and Times: 2011-09-29 06:19:54 - 06:39:48
Obs Pointing(ra,dec,roll): 253.452, 39.770, 256.71
193.233_-38.383_imageloc (boresight_dist, angle): (96, -124)
193.233_-38.383_exposure (cm^2 cos adjusted): 0
193.233_-38.383_altitude: -13 (down)

% /usr/local/bin/swinfo -o 338971004.744 -s 197.200_-33.967
Time(MET + UTCF -> UT): 338971004.744 + -7.414 -> 2011-09-29T06:36:37.330
Swift Zenith(RA,dec): 313.88, 20.46
```

[Ipn] BAT lightcurve for trigger at 110929_0636

```
Swift Location(lon,lat,alt): -152.82 E, 20.50 N, 586 km
Obs Sequence Number: 00091138031
Obs Target Name: MRK501
Obs Date and Times: 2011-09-29 06:19:54 - 06:39:48
Obs Pointing(ra,dec,roll): 253.452, 39.770, 256.71
197.200_-33.967_imageloc (boresight_dist, angle): (90, -123)
197.200_-33.967_exposure (cm2 cos adjusted): 0
197.200_-33.967_altitude: -9 (down)

% /usr/local/bin/swinfo -o 338971004.744 -s 200.817_-34.967
Time(MET + UTCF -> UT): 338971004.744 + -7.414 -> 2011-09-29T06:36:37.330
Swift Zenith(RA,dec): 313.88, 20.46
Swift Location(lon,lat,alt): -152.82 E, 20.50 N, 586 km
Obs Sequence Number: 00091138031
Obs Target Name: MRK501
Obs Date and Times: 2011-09-29 06:19:54 - 06:39:48
Obs Pointing(ra,dec,roll): 253.452, 39.770, 256.71
200.817_-34.967_imageloc (boresight_dist, angle): (89, -126)
200.817_-34.967_exposure (cm2 cos adjusted): 0
200.817_-34.967_altitude: -6 (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/110929_0636_bat64ms_ipn	Content-Type: application/octet-stream
	Content-Encoding: base64

/tmp/110929_0636.png

/tmp/110929_0636.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

KONUS2

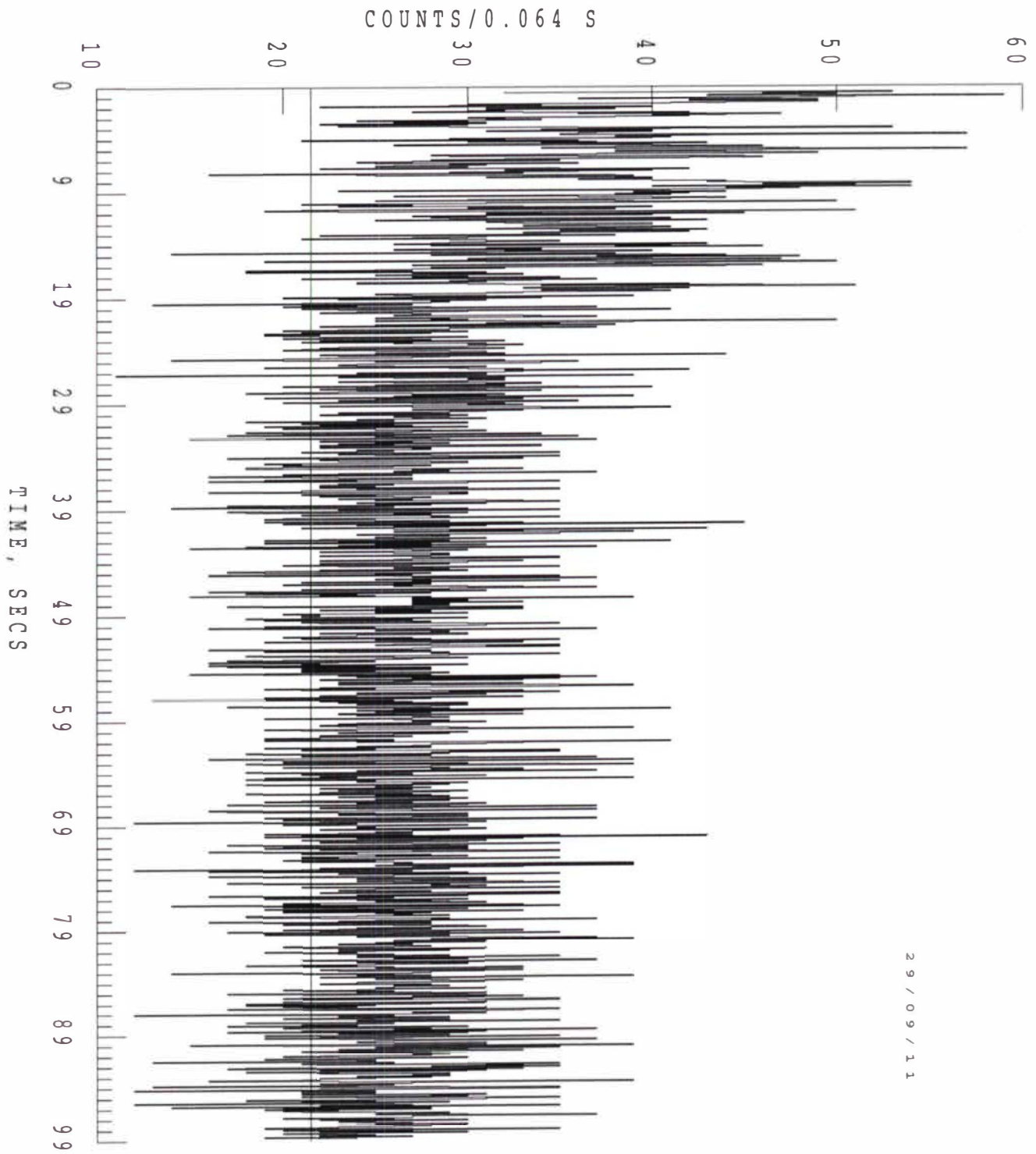
29/09/11

24237.484

06:43:57

BC

50 - 200 keV



KONUS HRES 20110929 24237

TRIGGER TIME: 29/09/11 DOY 272 Julian 2455834.78052 UT = 06.732 06:43:57 (24237.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

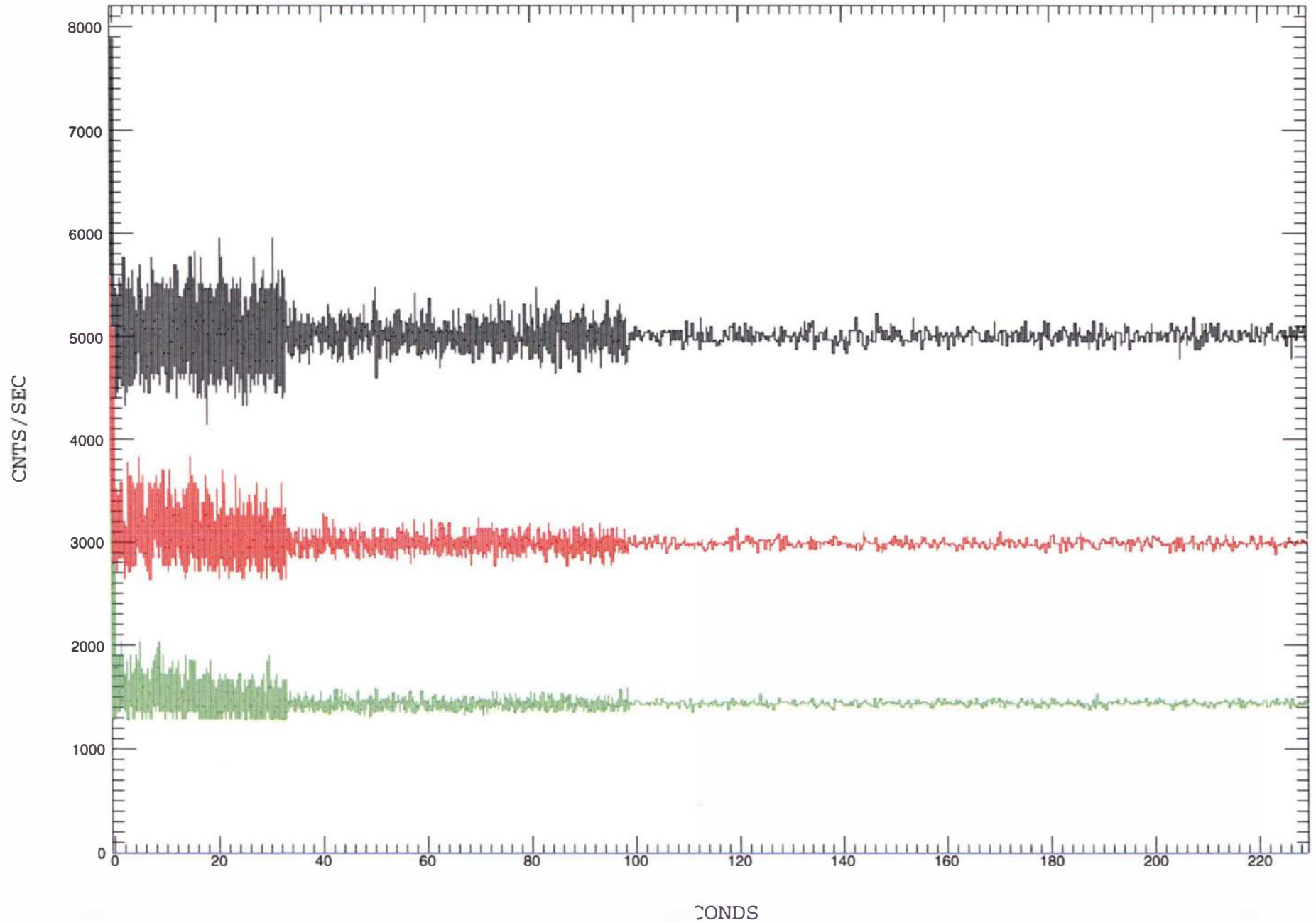
Chan 4 : [> 10 MeV]

Channel 1 + 3900

Channel 2 + 2600

Channel 3 + 1300

Channel 4 + 0



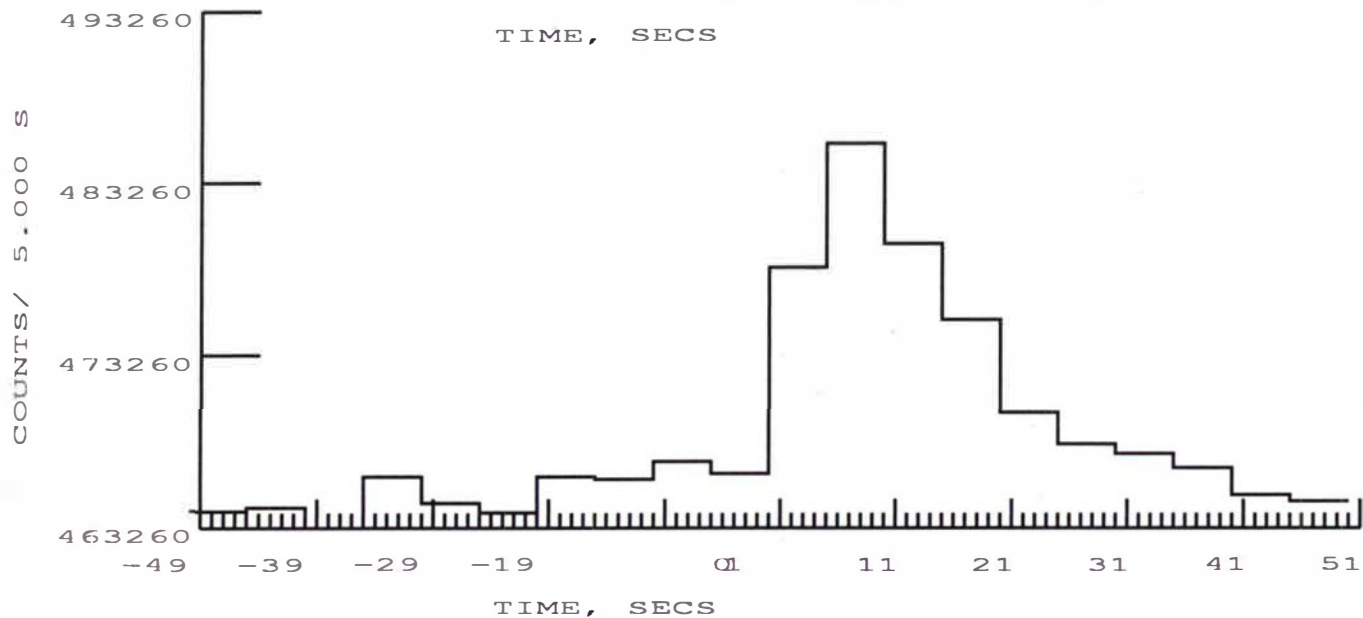
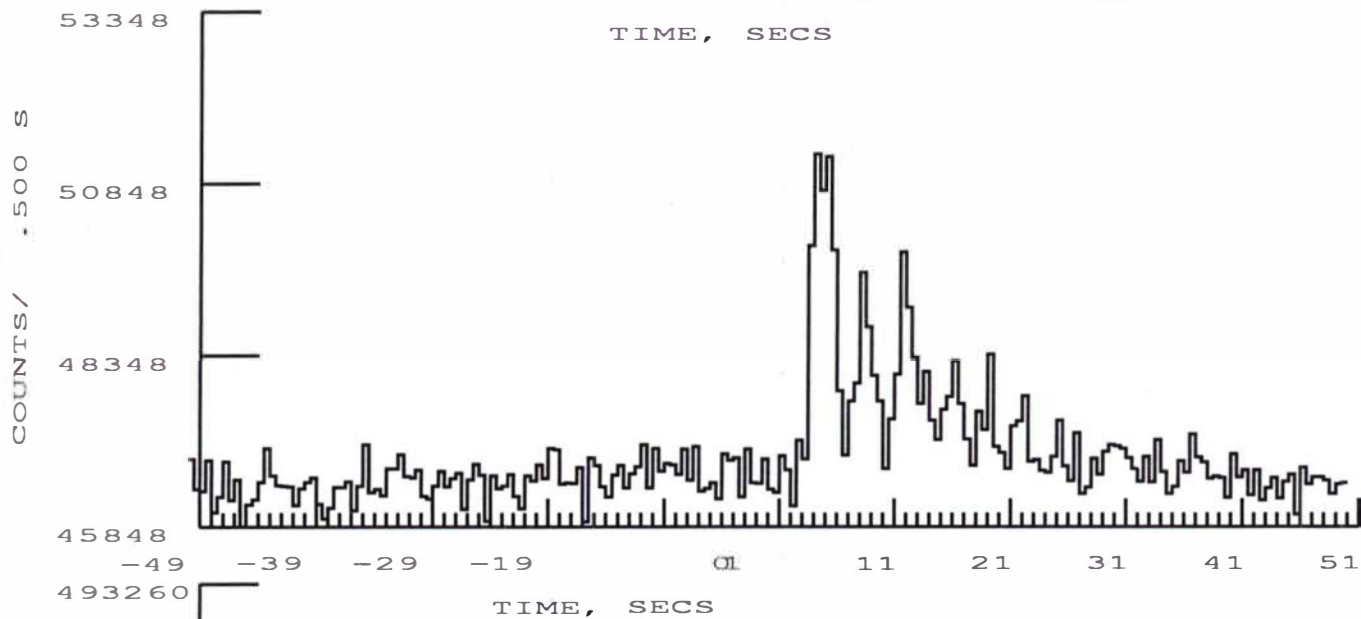
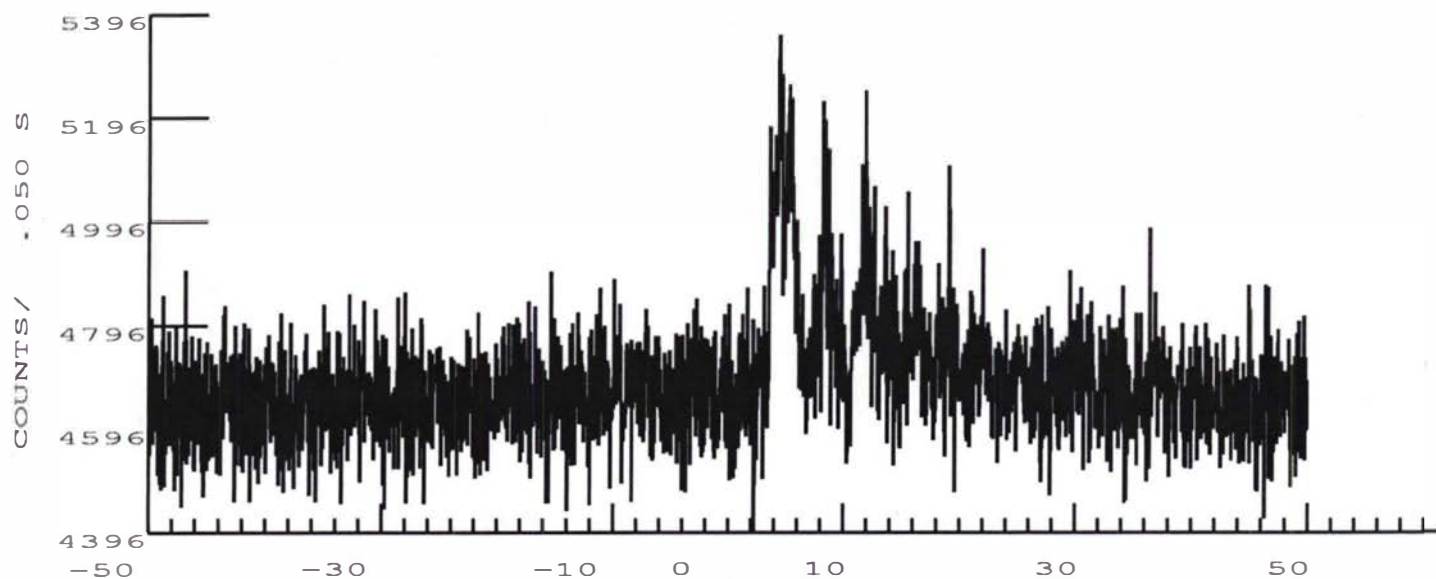
INTEGRAL

29/09/11

24237.000

06:43:57.0

20/01/14





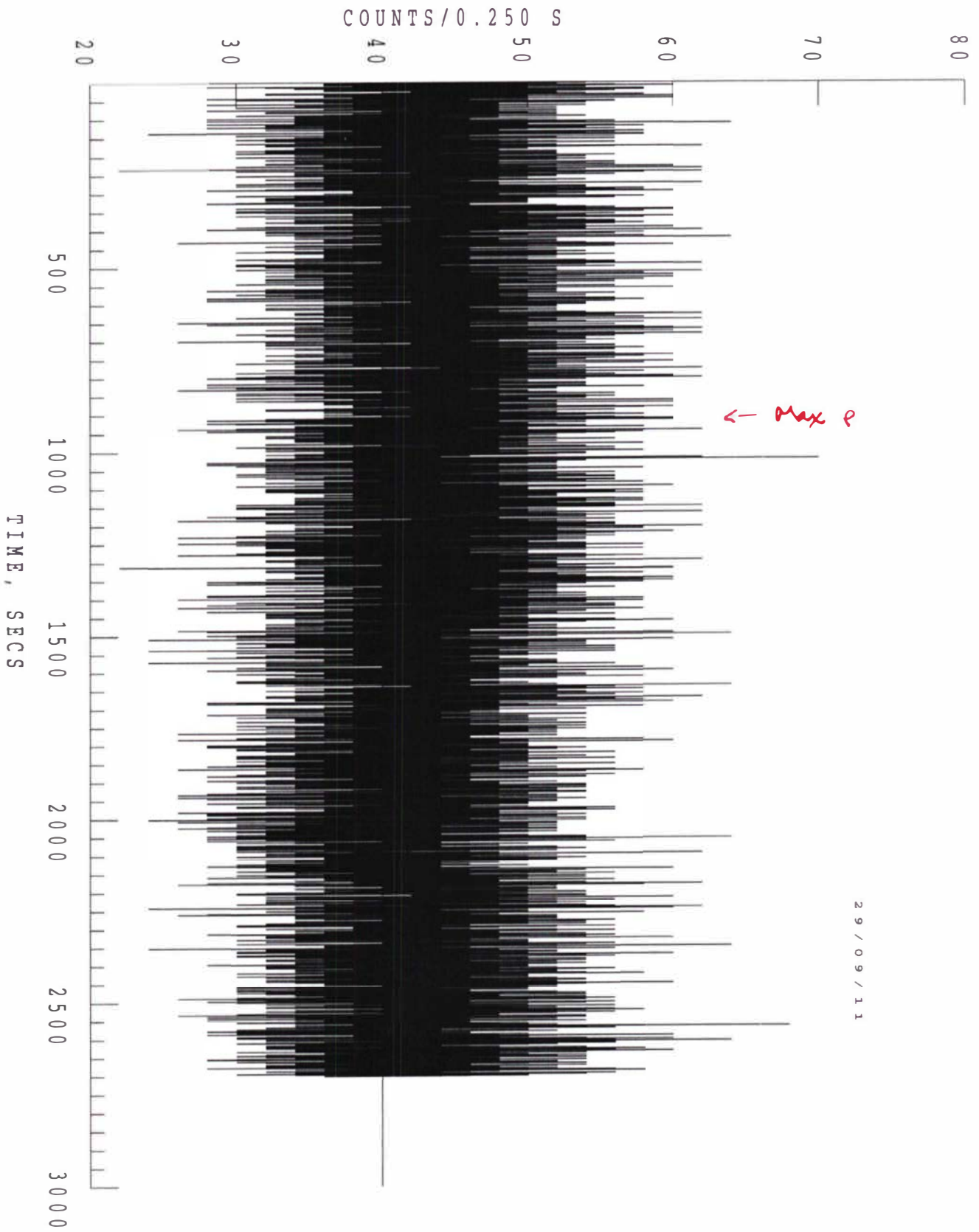
8C

MS01

29/09/11

22868.910

50 - 3000 keV



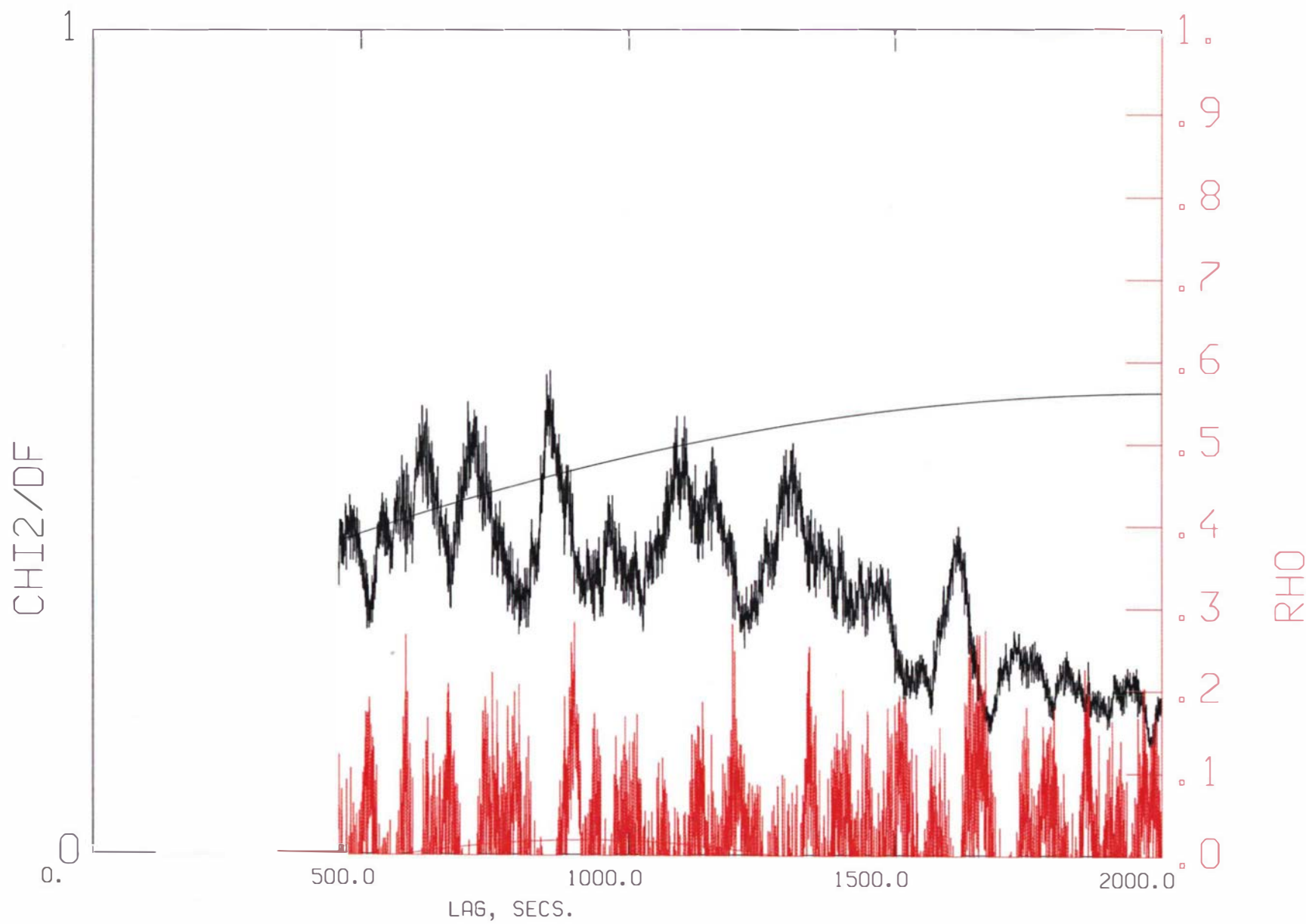
KONUS2

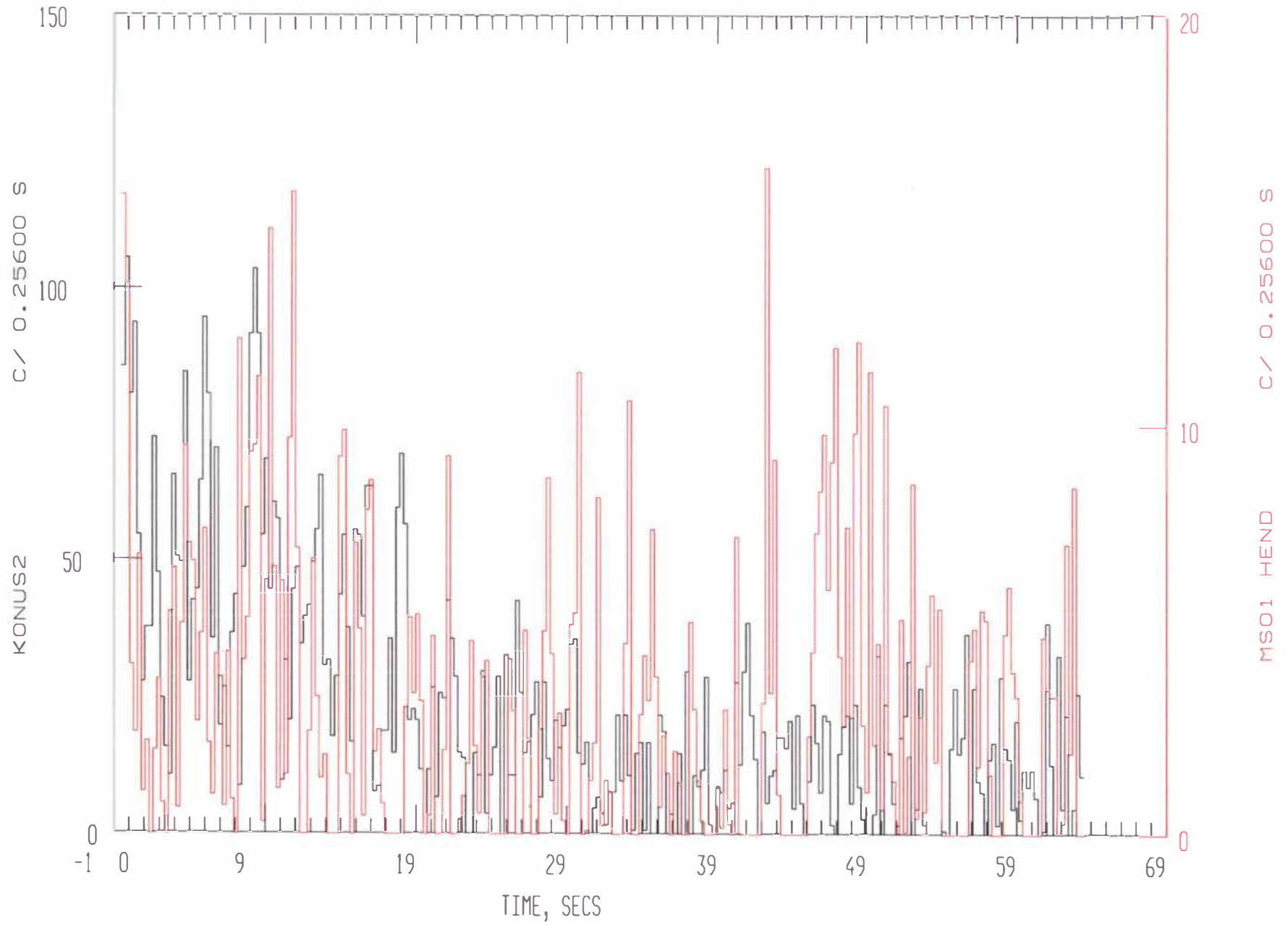
-MS01 HEND CORRELATION

29/09/11

24237.484

5/12/11



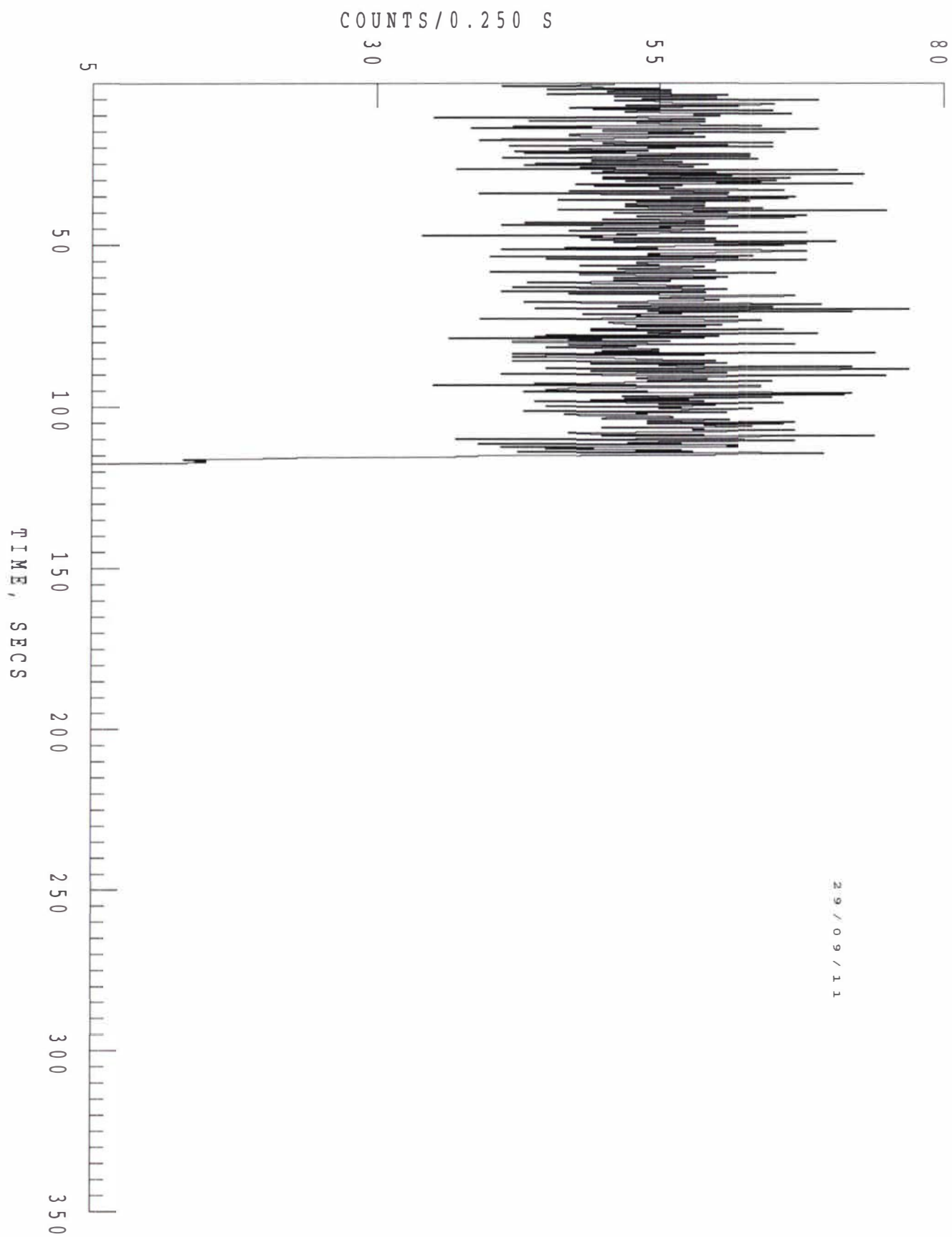


HESSI

29/09/11 24087.000 (KONUS2_20110929_24237)

EC

25- 150 keV

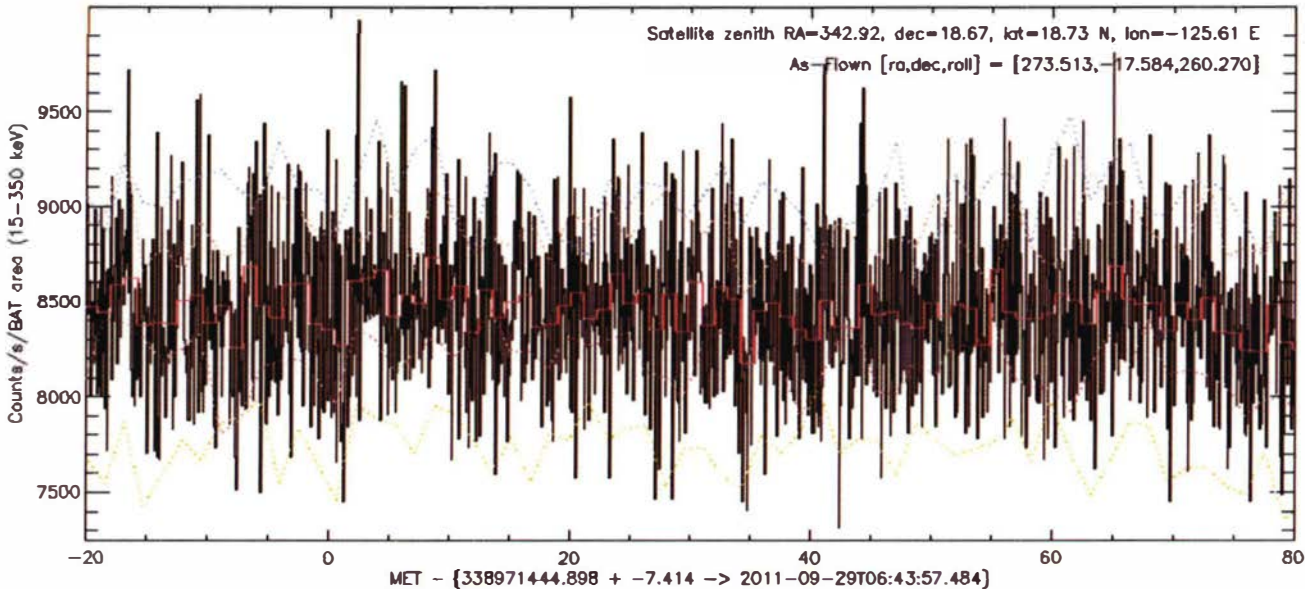




Subject: [Ipn] BAT lightcurve for trigger at 110929_0643
From: palmer+automatic_lightcurve@lanl.gov
Date: Thu, 29 Sep 2011 12:17:47 -0600 (MDT)
To: gbm-ba@mpe.mpg.de, ipn@ssl.berkeley.edu, dmopalmer@gmail.com, mkippen@lanl.gov, bat_team@bigbang.gsfc.nasa.gov, palmer+automatic_lightcurve@lanl.gov

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

/tmp/110929_0643.png



```
% /usr/local/bin/swinfo -o 338971444.898
Time(MET + UTC -> UT):      338971444.898 + -7.414 -> 2011-09-29T06:43:57.484
Swift Zenith(RA,dec):      342.92, 18.67
Swift Location(lon,lat,alt): -125.61 E, 18.73 N, 589 km
Obs Sequence Number:      00041807002
Obs Target Name:          1FGL J1814.0-1736c
Obs Date and Times:       2011-09-29 06:39:53 - 06:44:52
Obs Pointing(ra,dec,roll): 273.513, -17.584, 260.27
```

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/110929_0643_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
------------------------------	--

/tmp/110929_0643.png

/tmp/110929_0643.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

C

05/12/11

MESSENGER

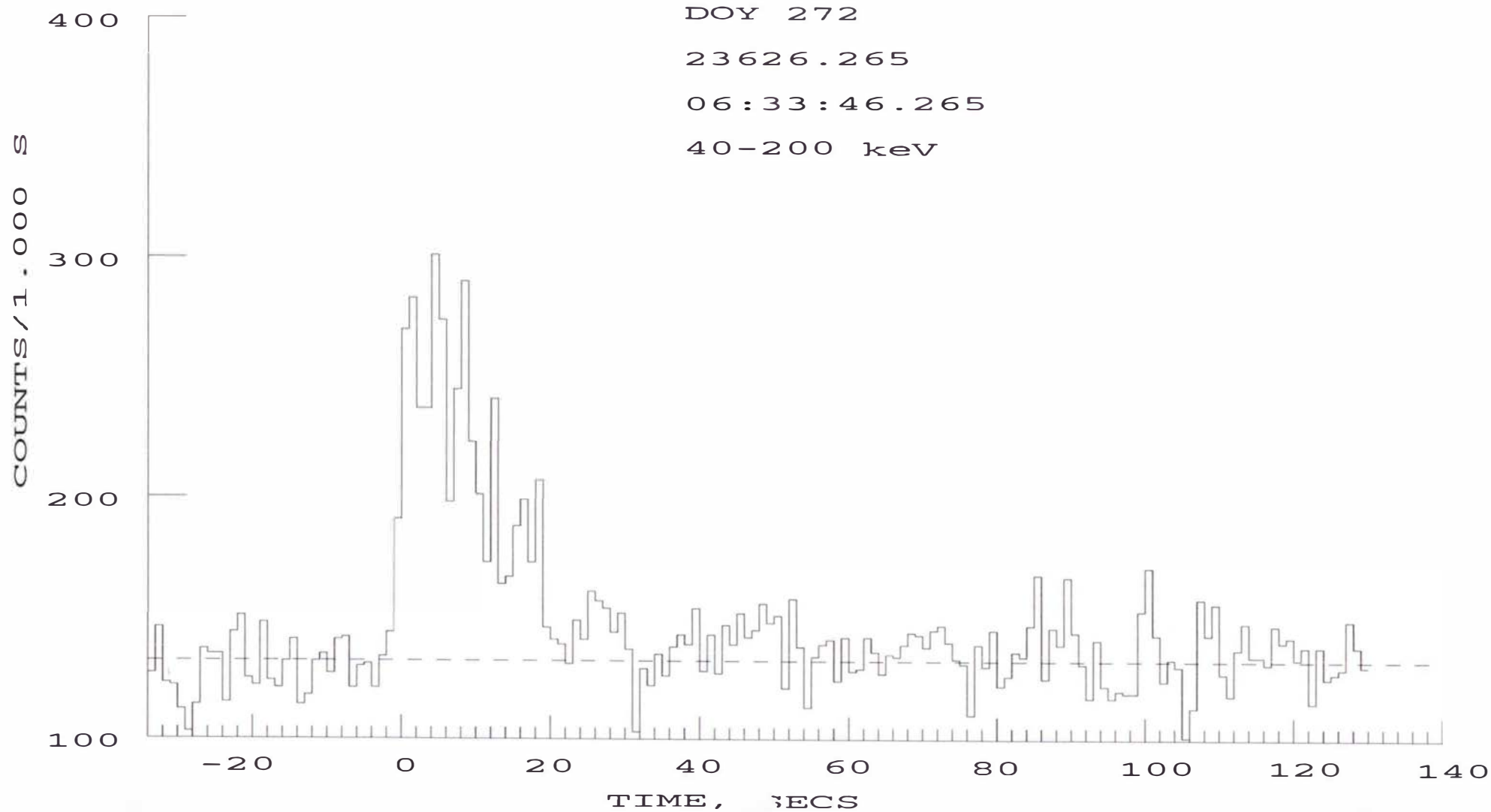
29/09/11

DOY 272

23626.265

06:33:46.265

40-200 keV



Date: Apr 5 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/scik/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?

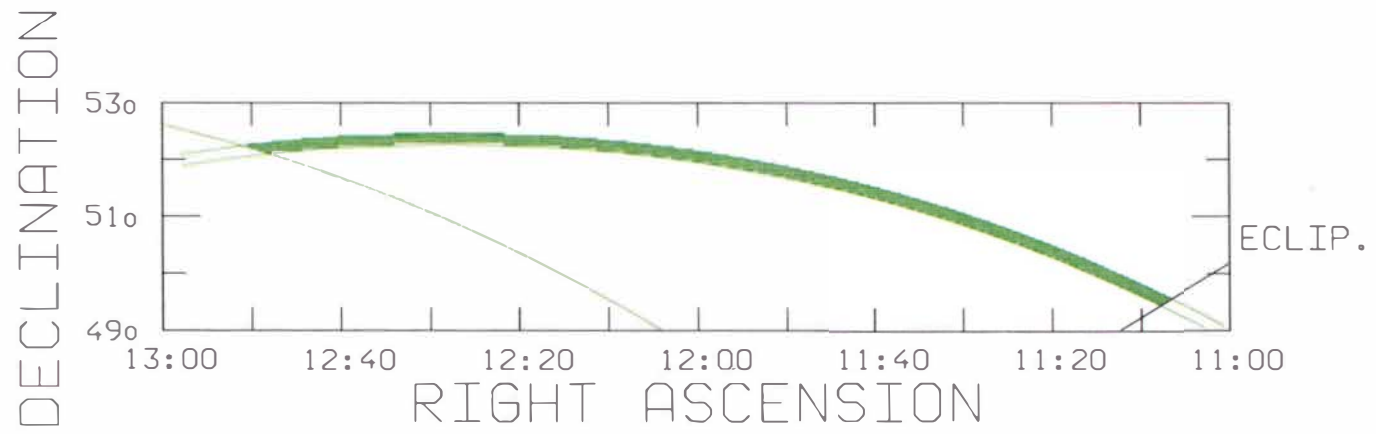
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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>)

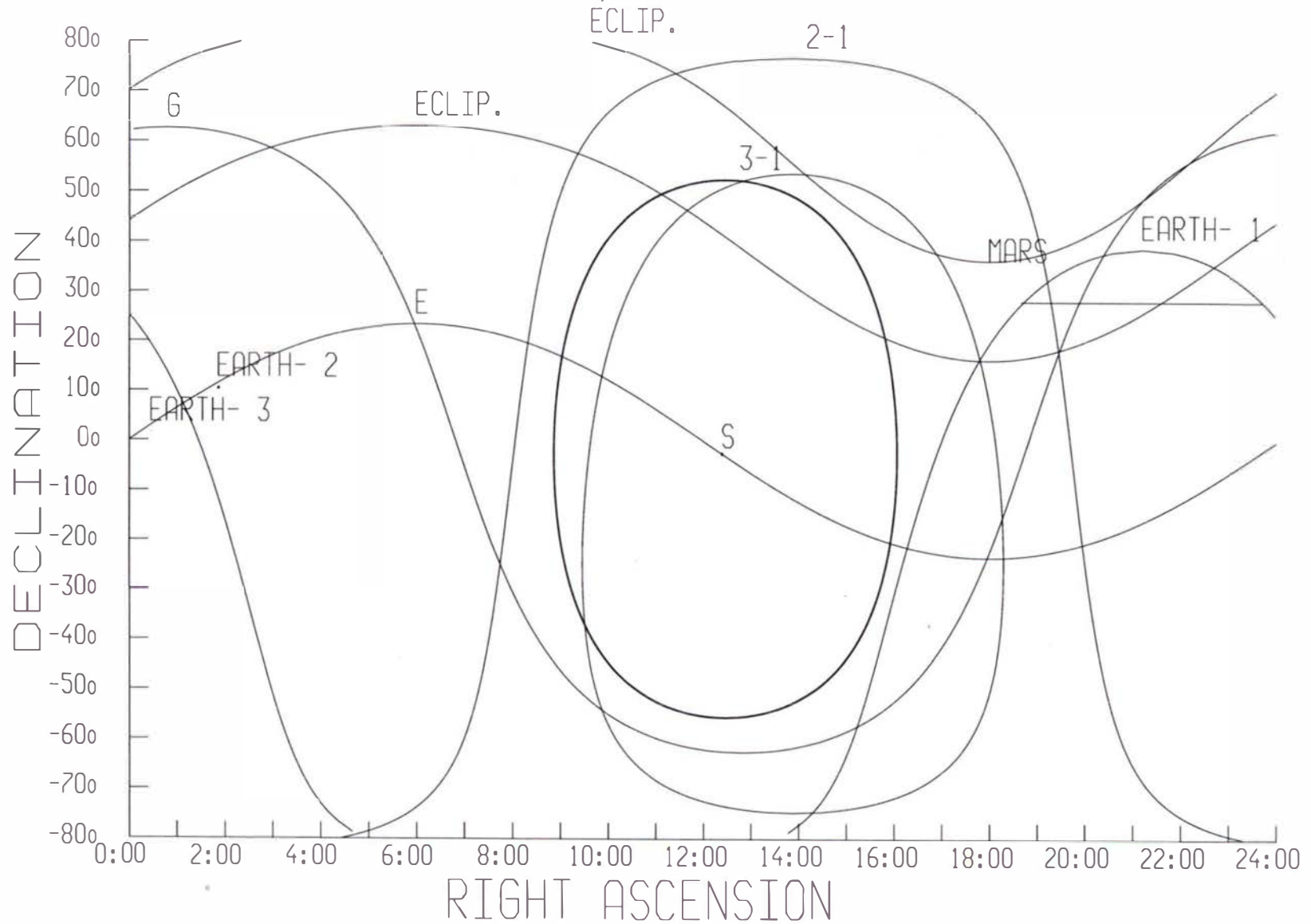
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

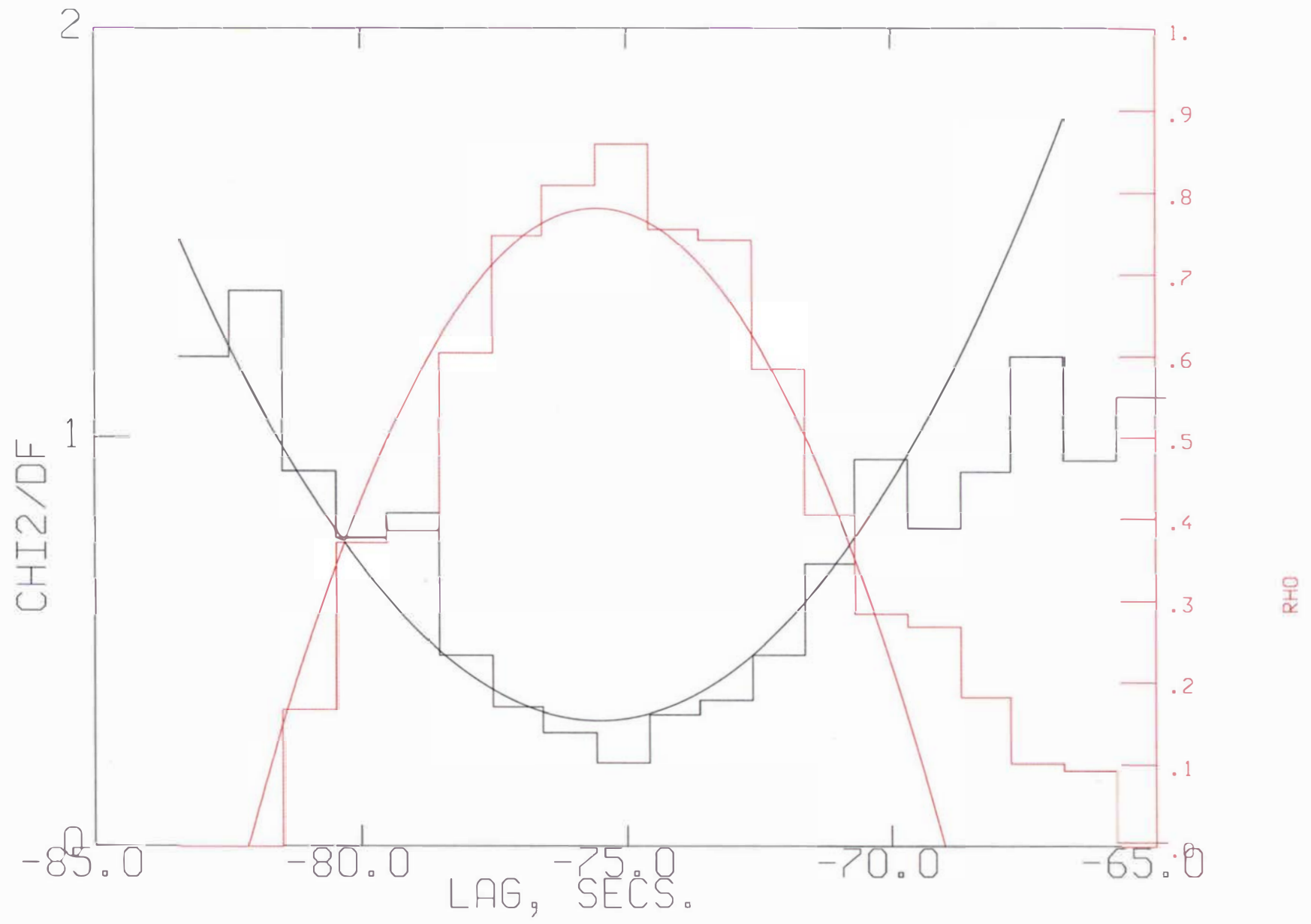


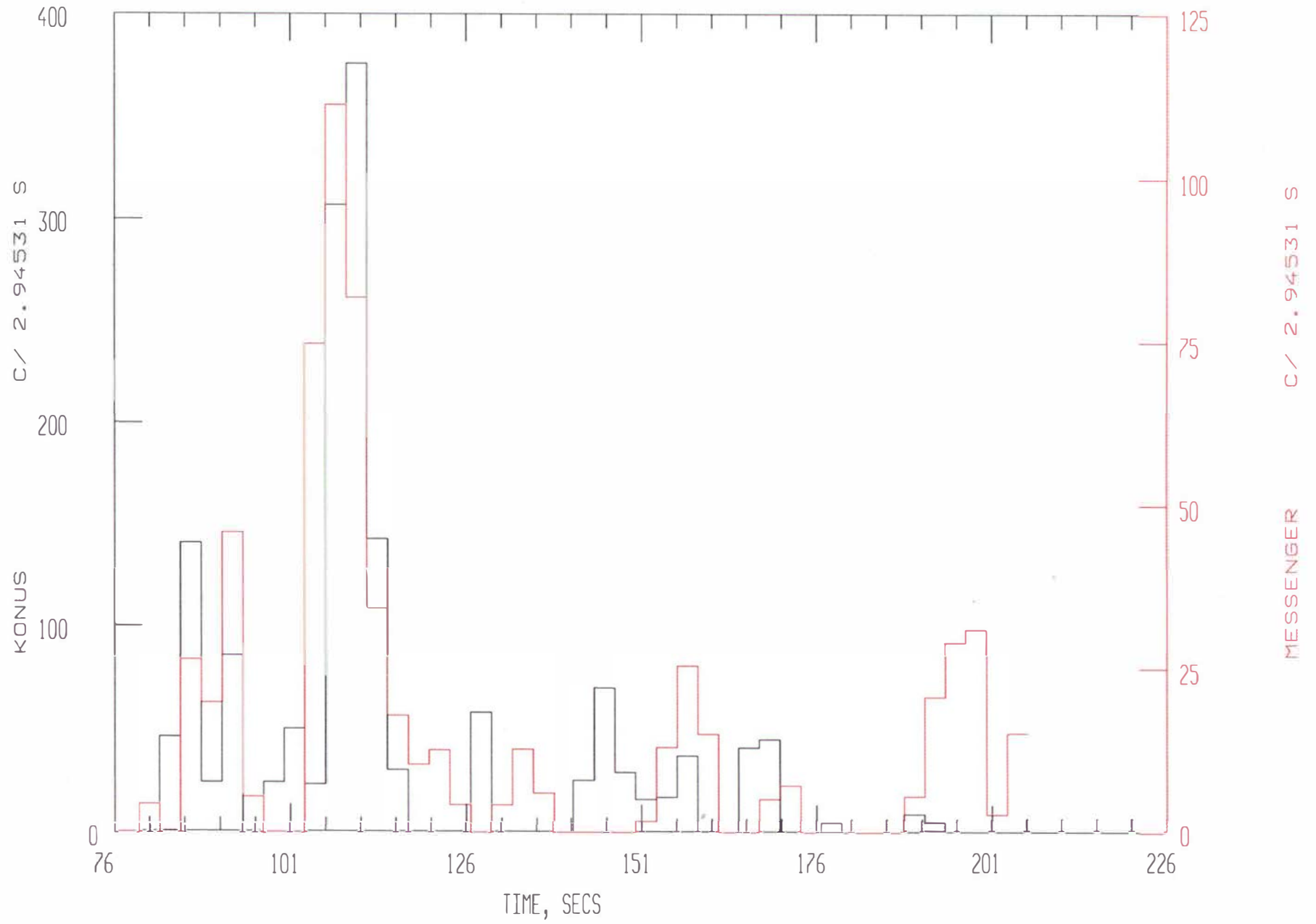
EVENT OF SEP 29, 2011 20:32

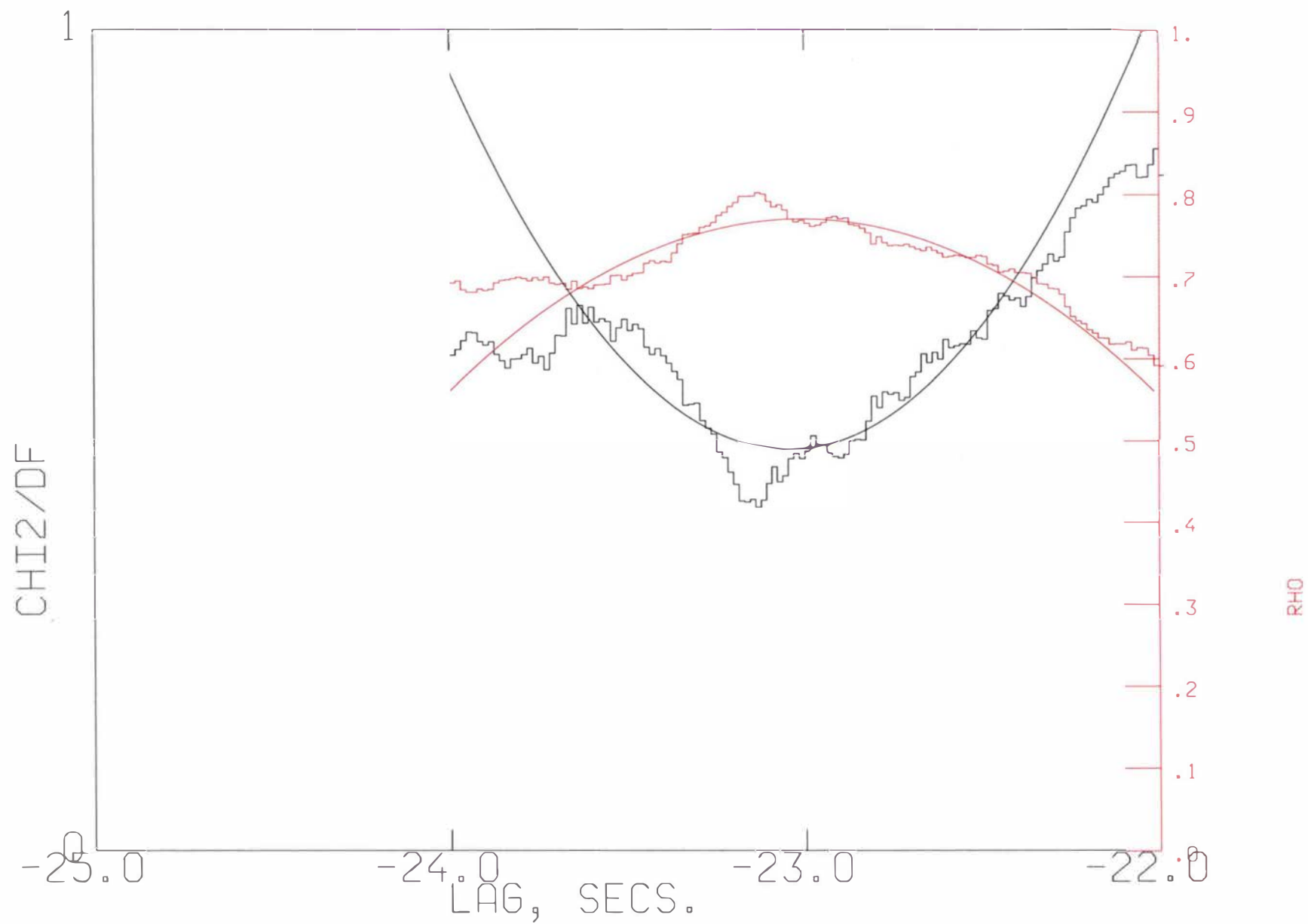
05/04/2013

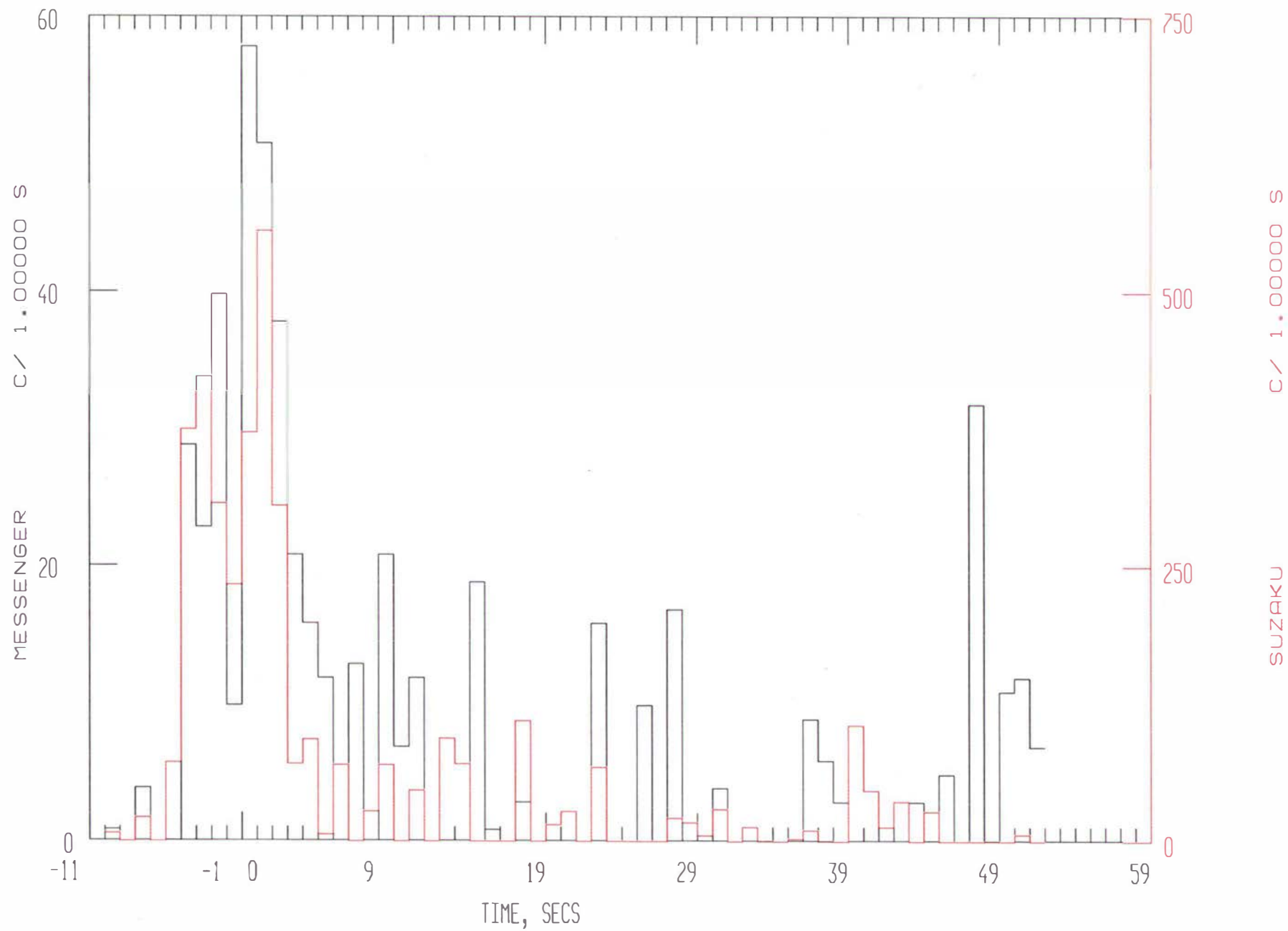
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN
1 SUZAKU
E=ECLIPTIC
2 KONUS
G= GALACTIC EQUATOR
3 MESSENGER







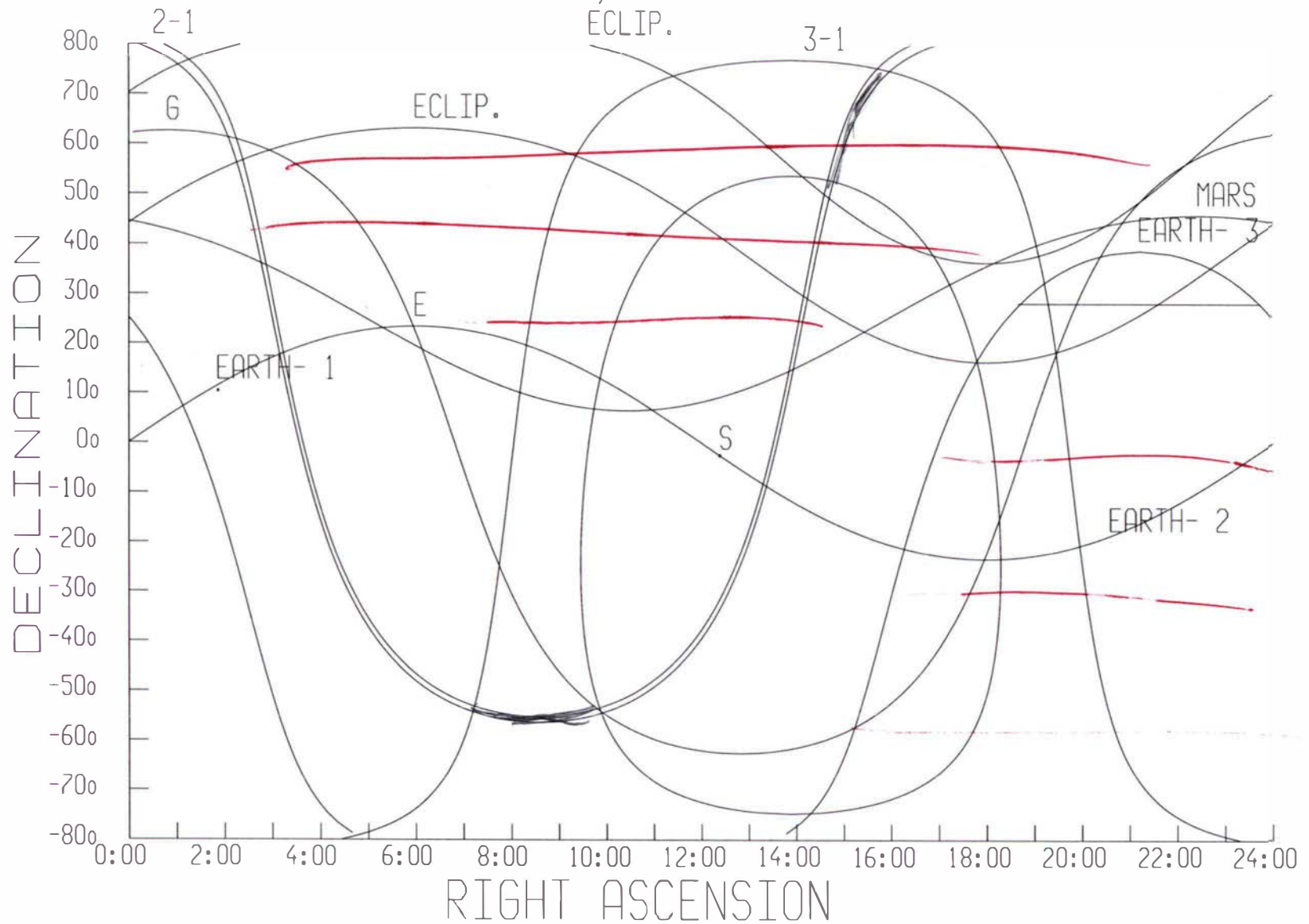


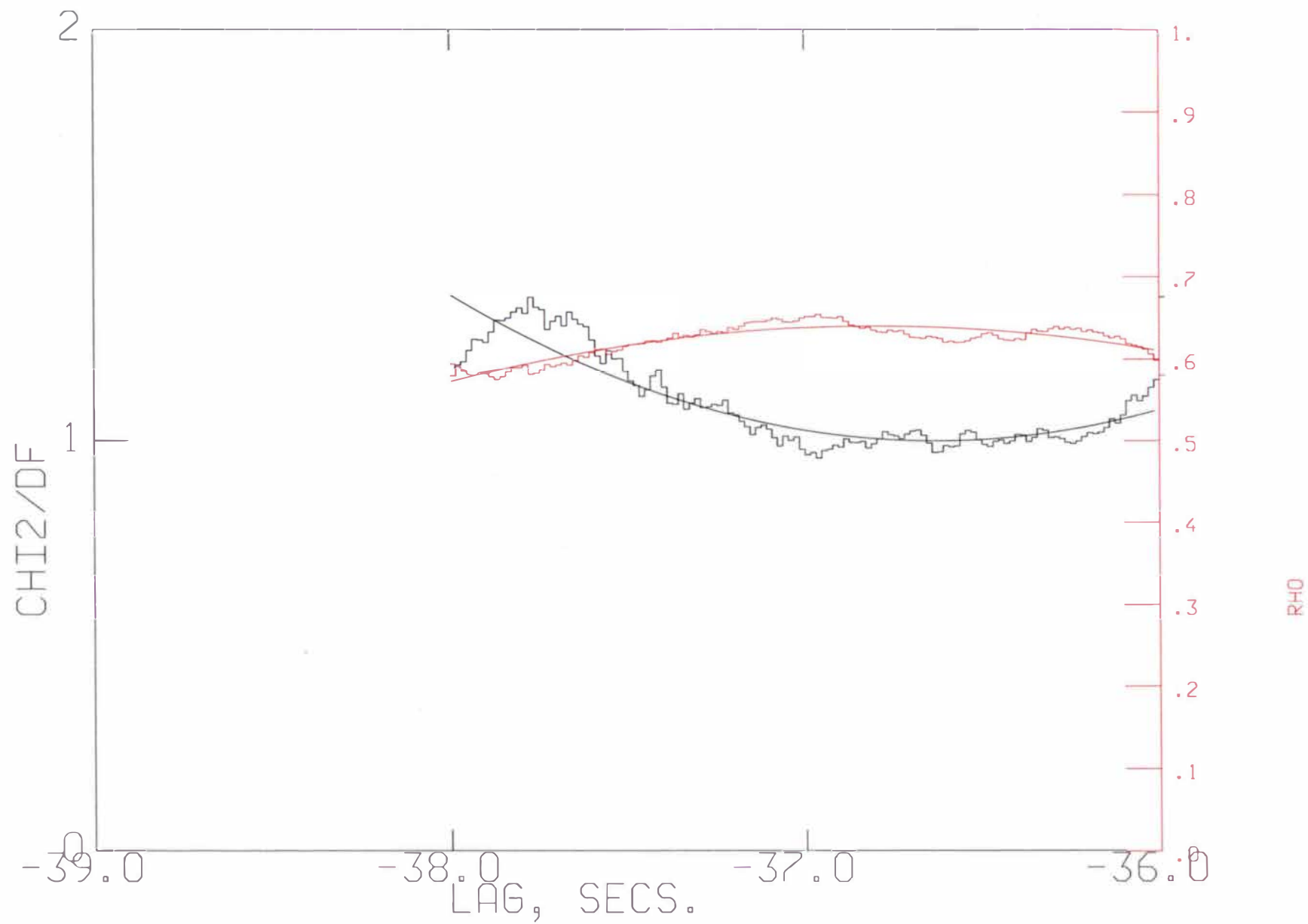


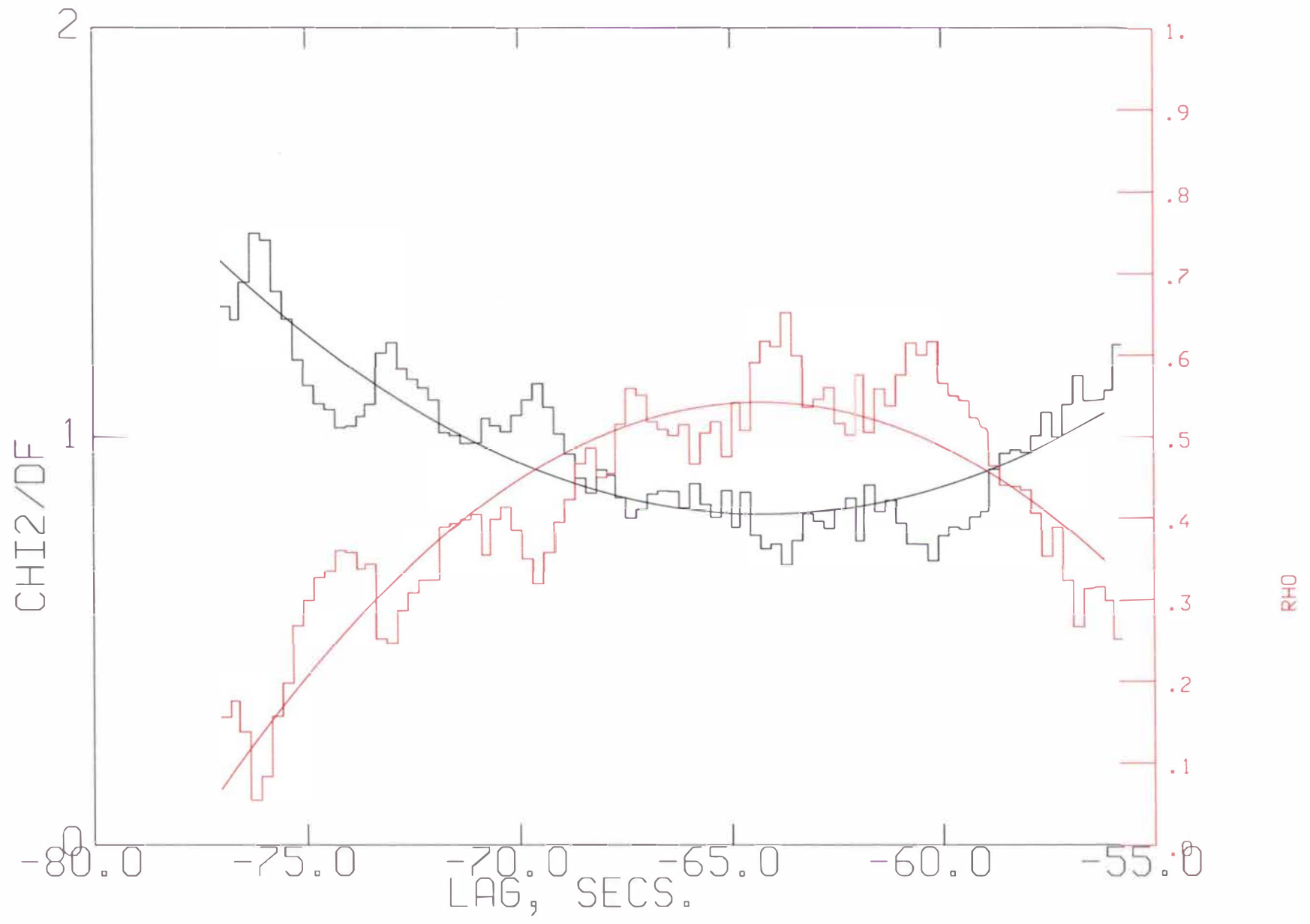
EVENT OF SEP 29, 2011 20:31

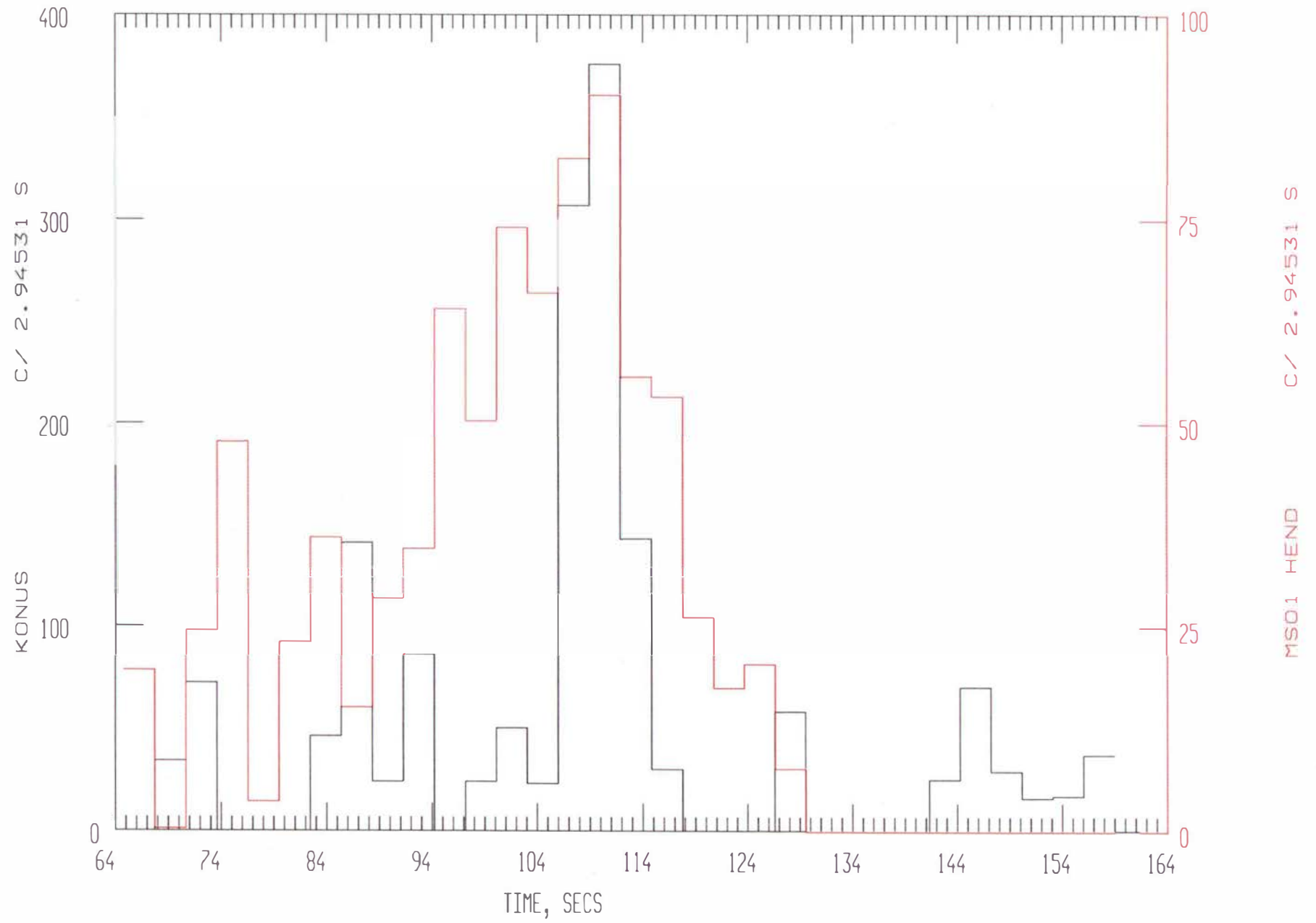
05/04/2013

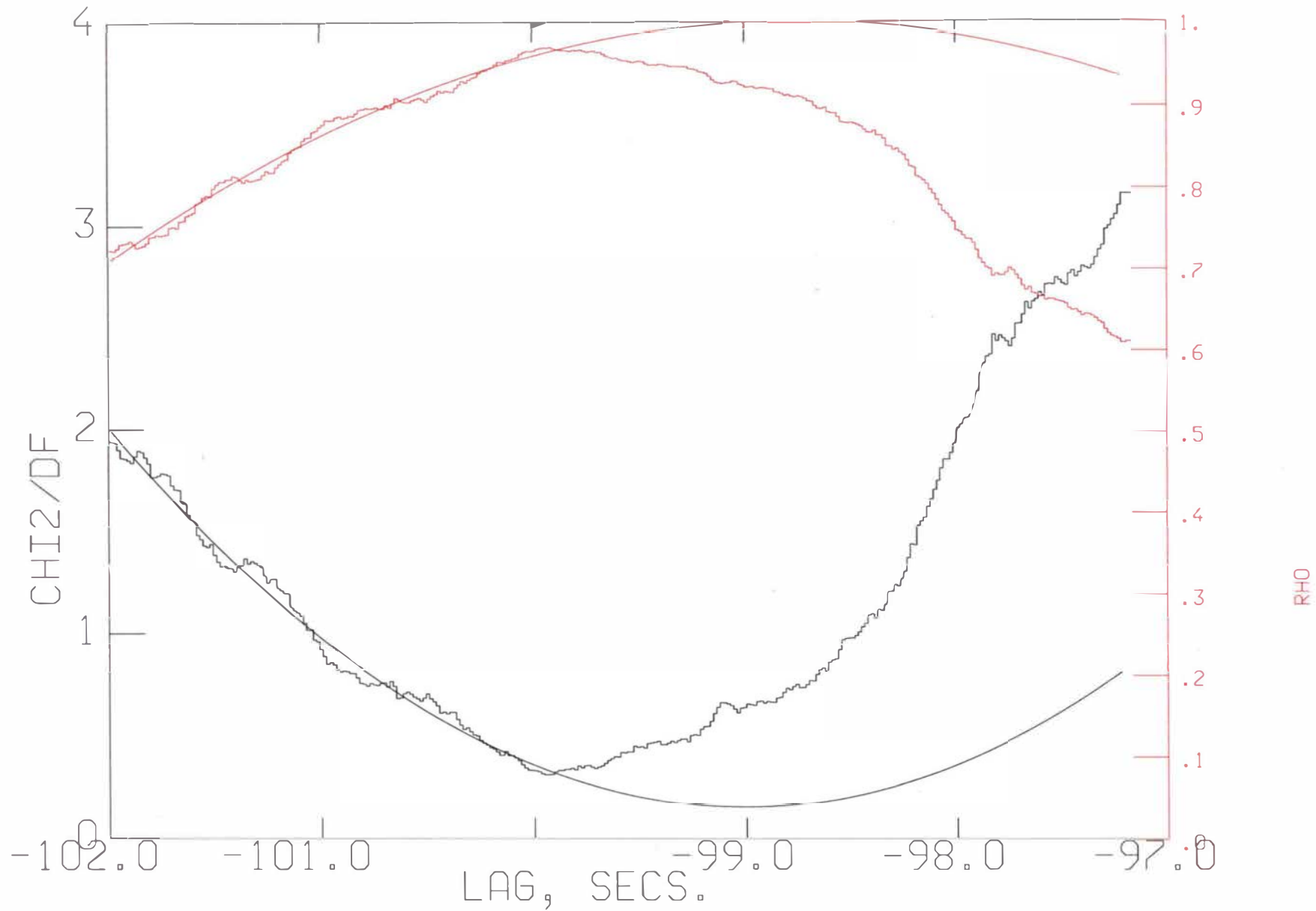
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS 2 MO 3 SUZAKU

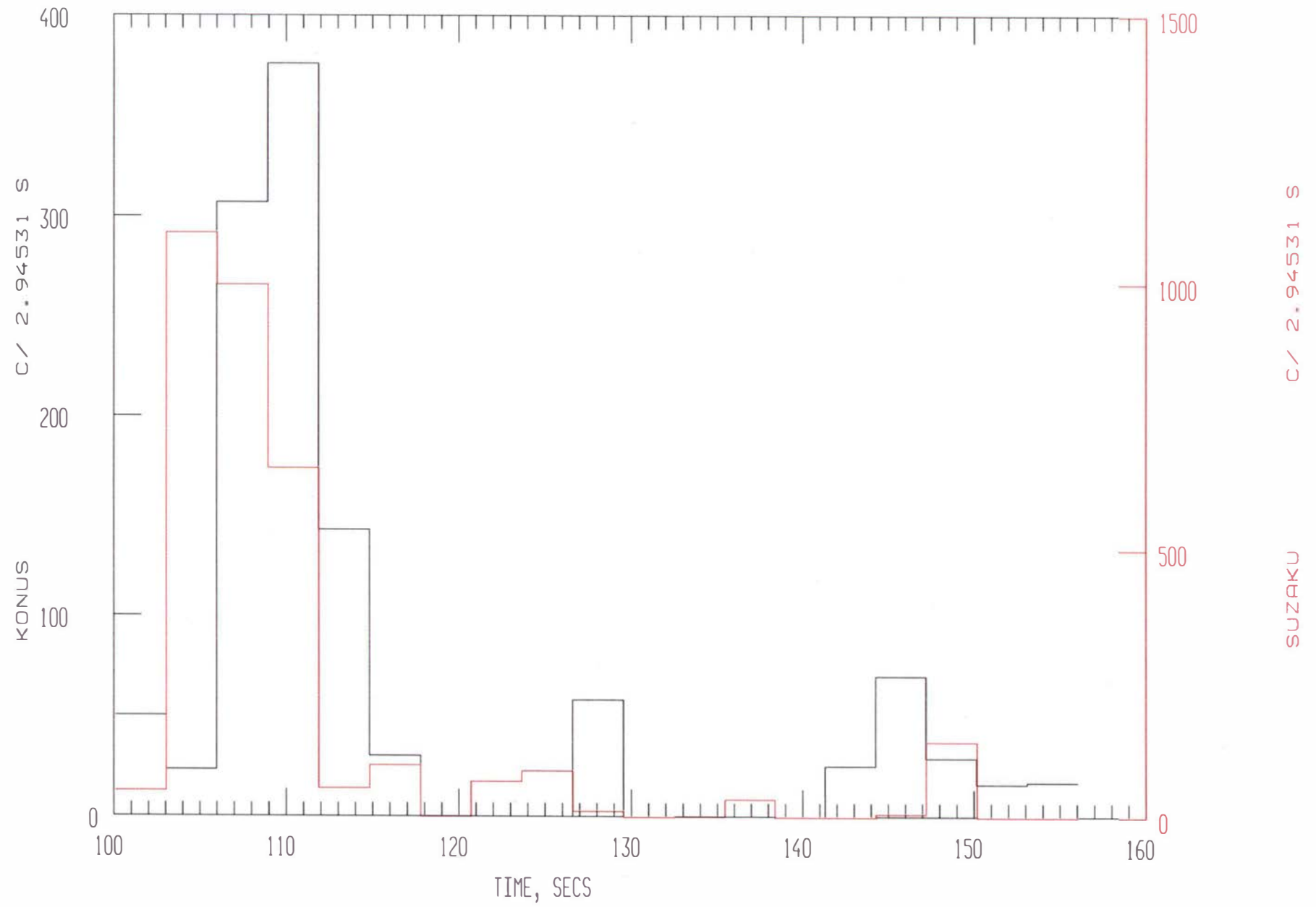












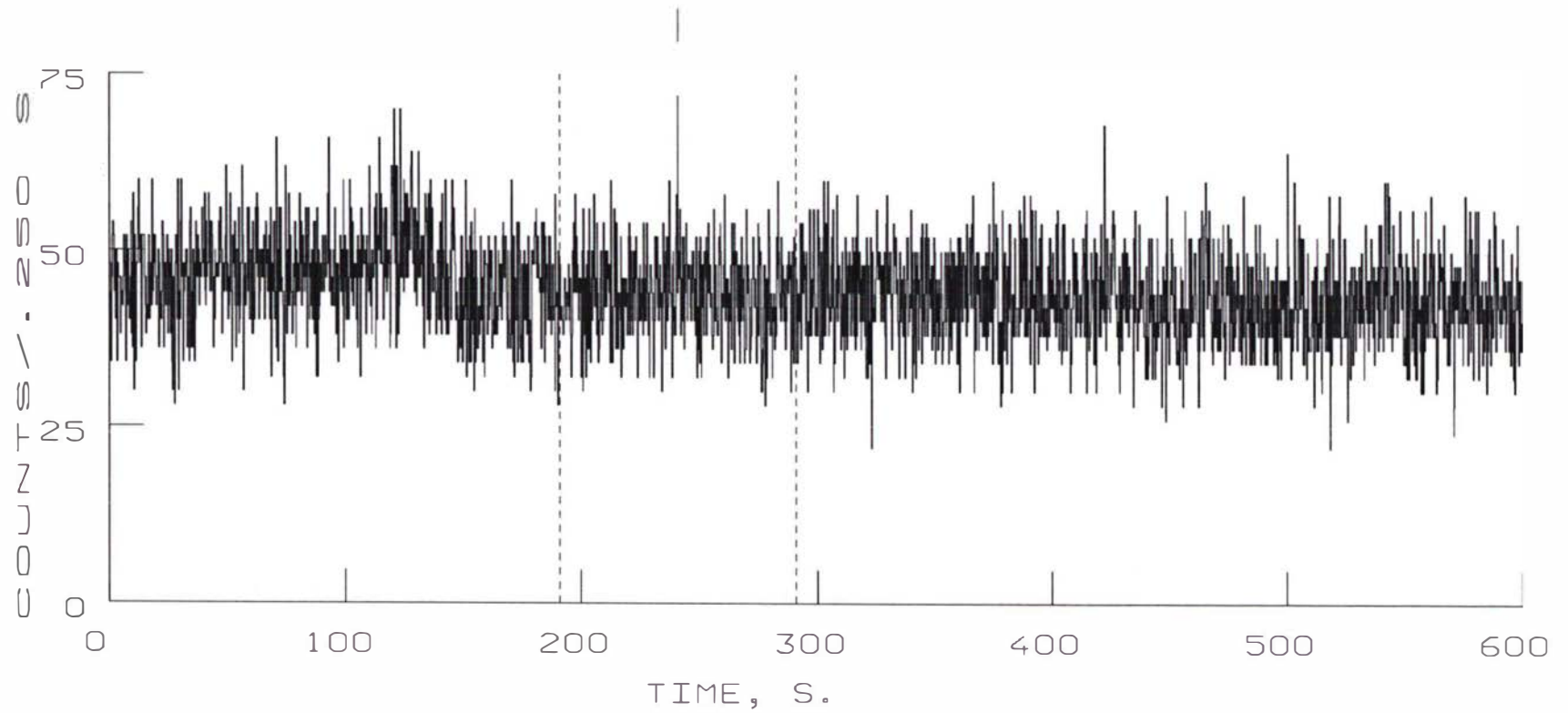
MS01 HEND

05/04/2013

29/09/2011 73628.016 s

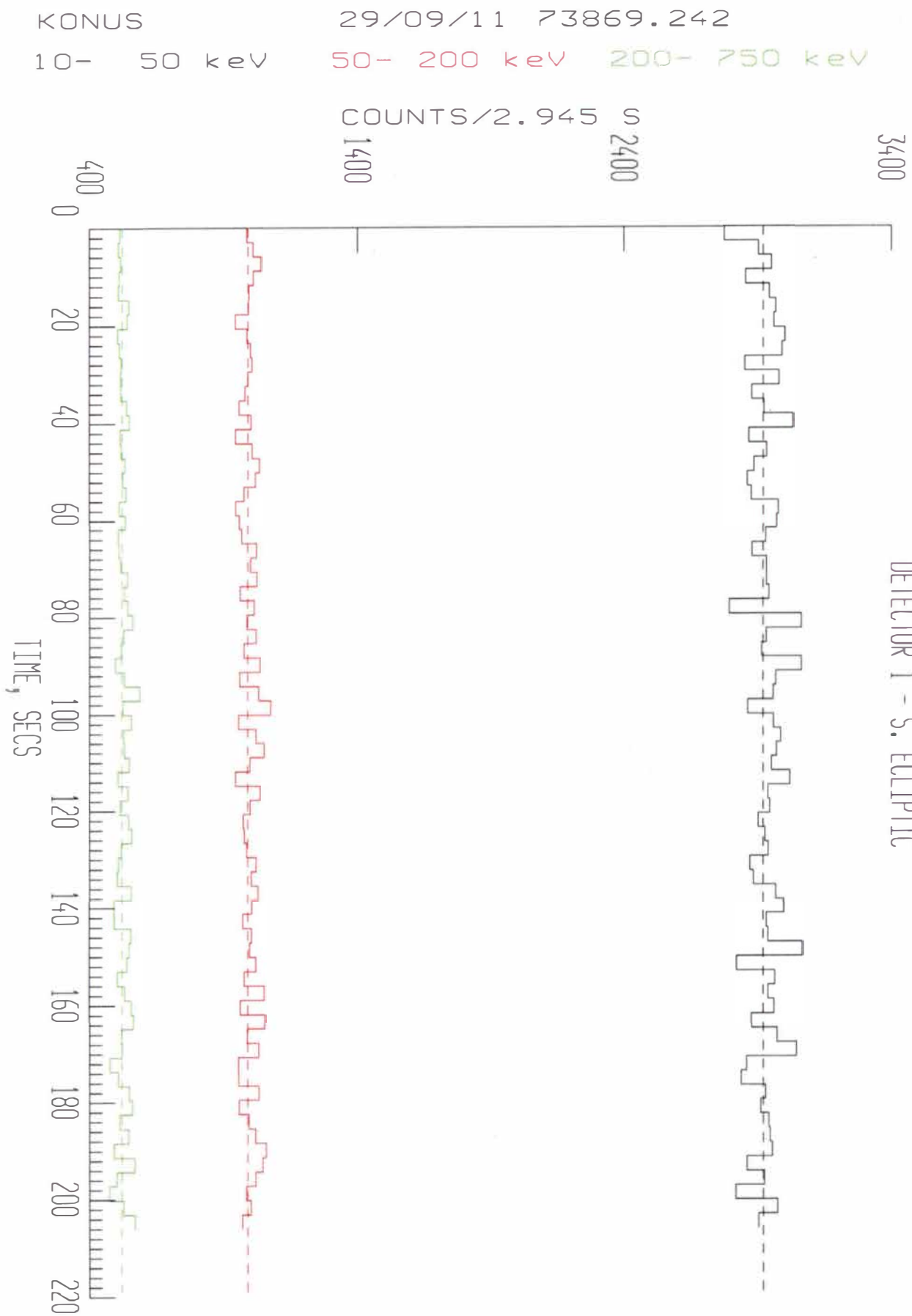
50-3000 keV

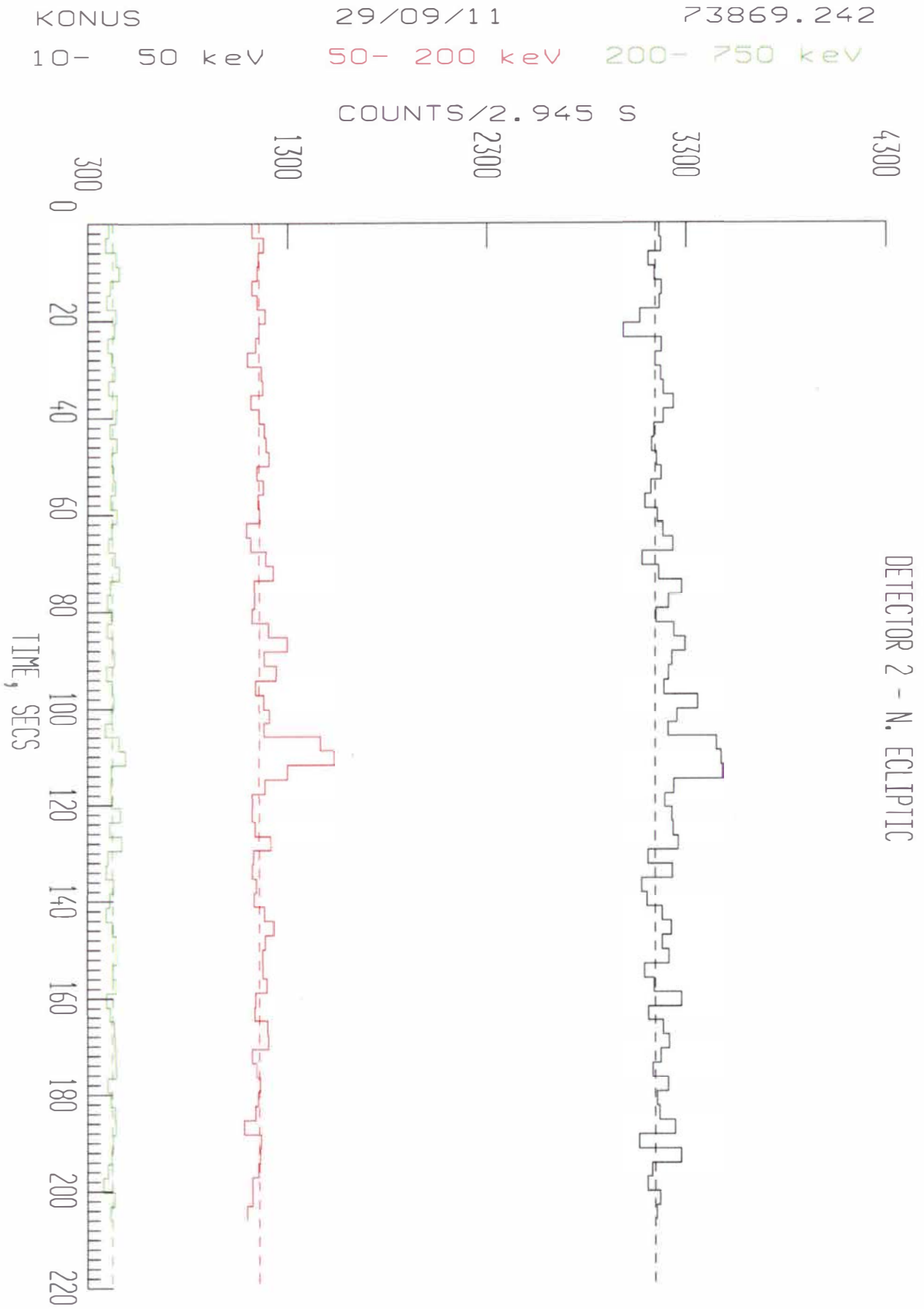
MAXIMUM

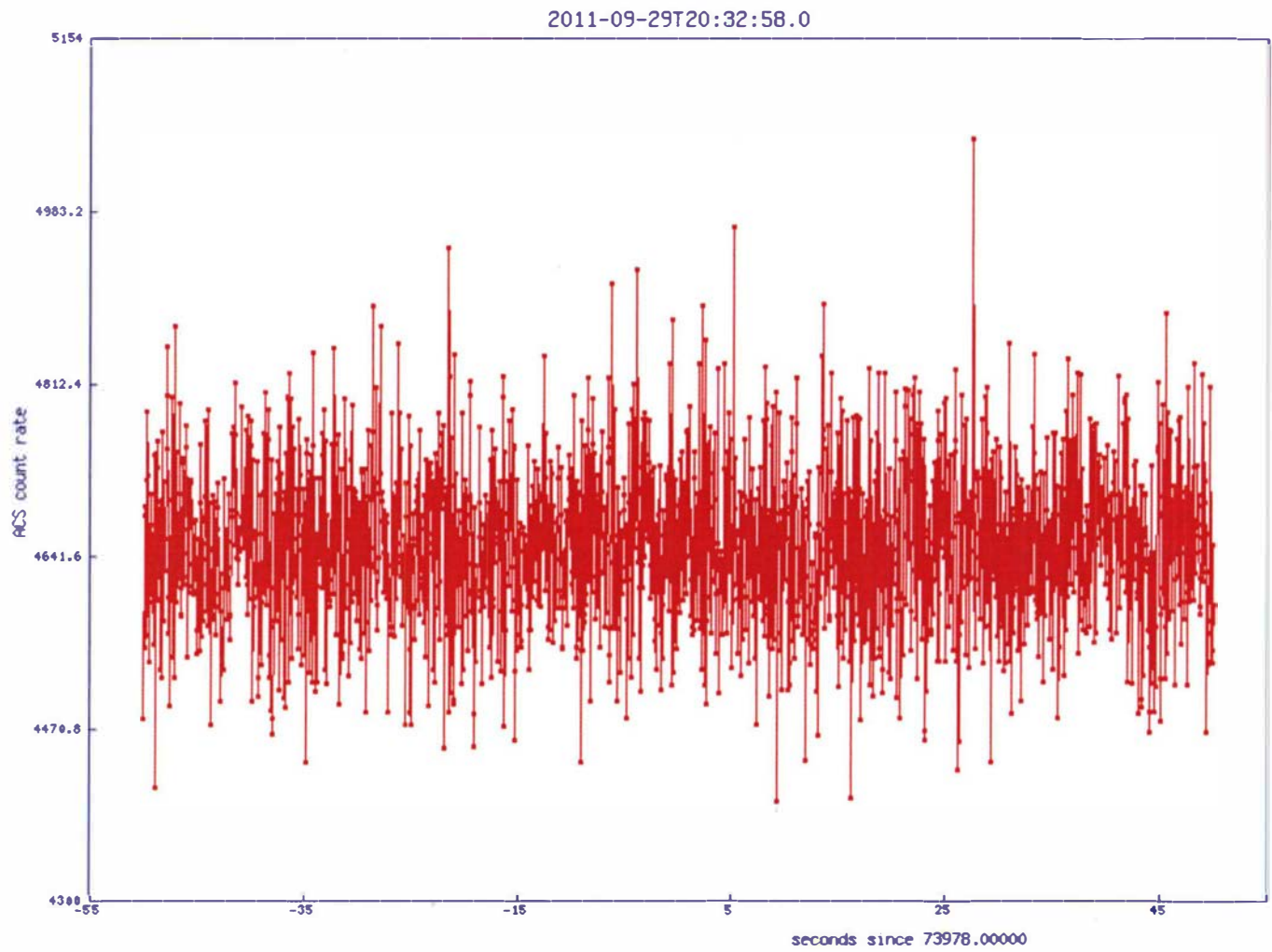


05/04/2013

DETECTOR 1 - S. ECLIPSE







SUZAKU

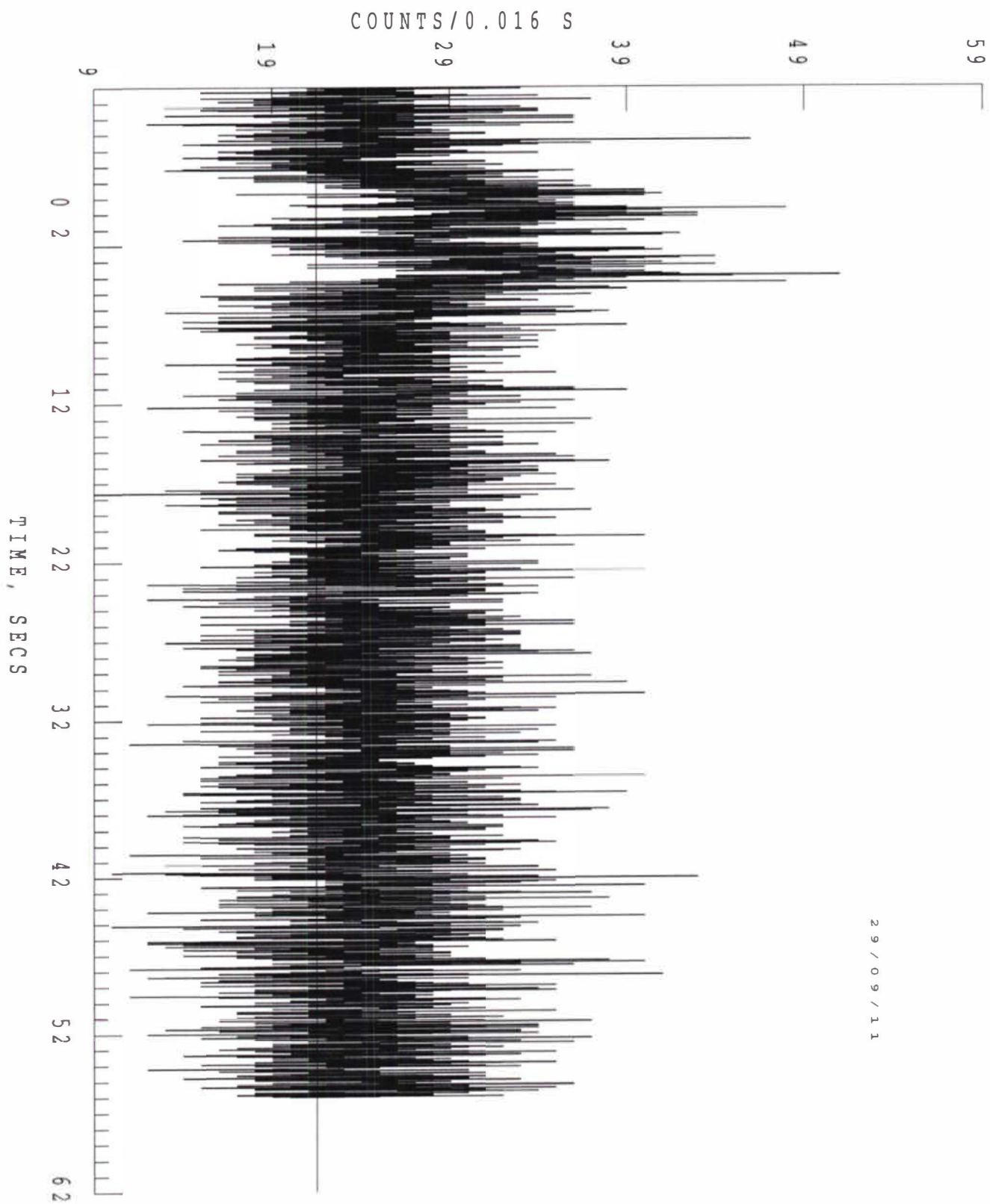
29/09/11

73978.473

20:32:58

BE

50 - 240 keV



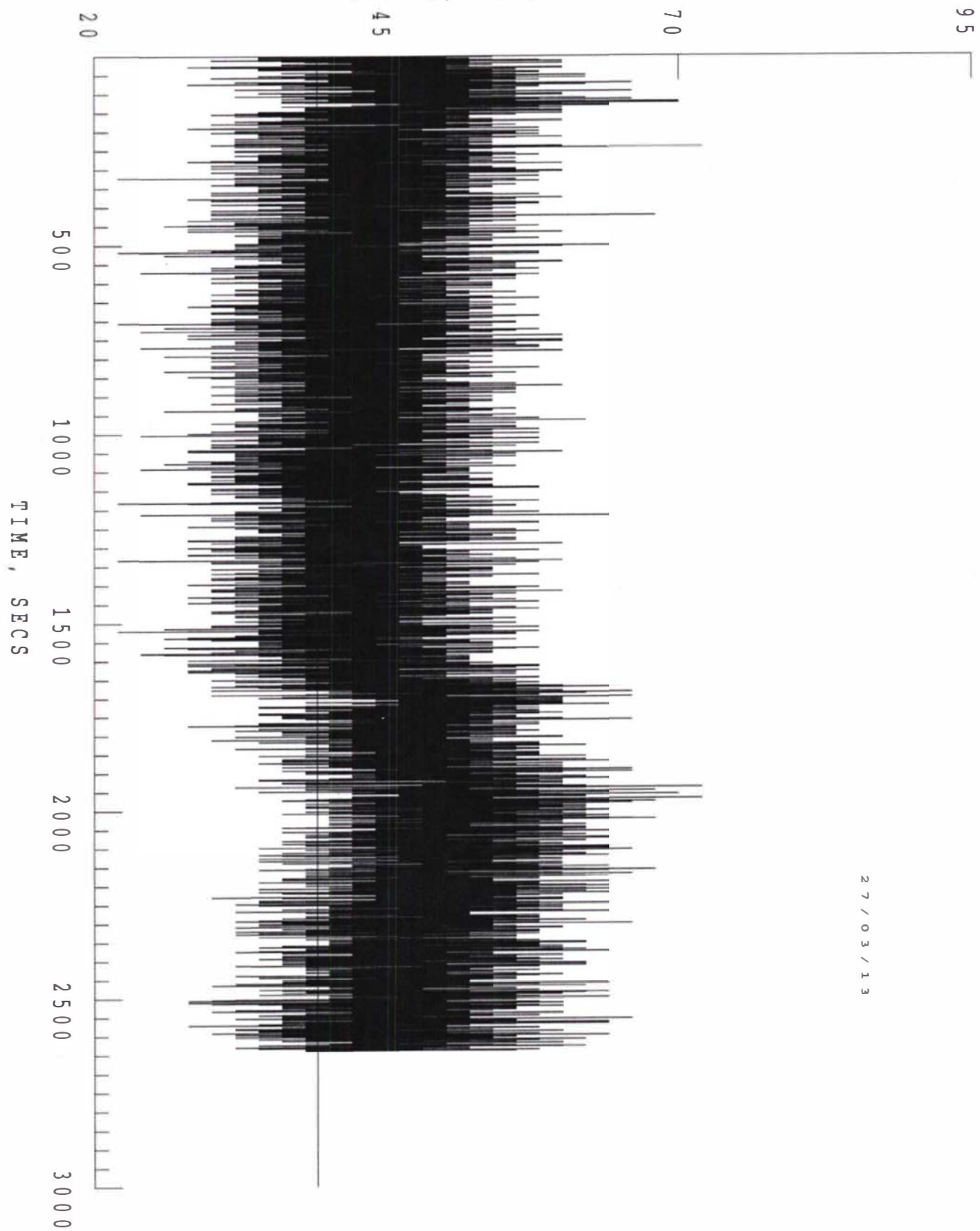
MS01

29/09/11

73628.018

50 - 3000 keV

COUNTS/0.250 S



27/03/13

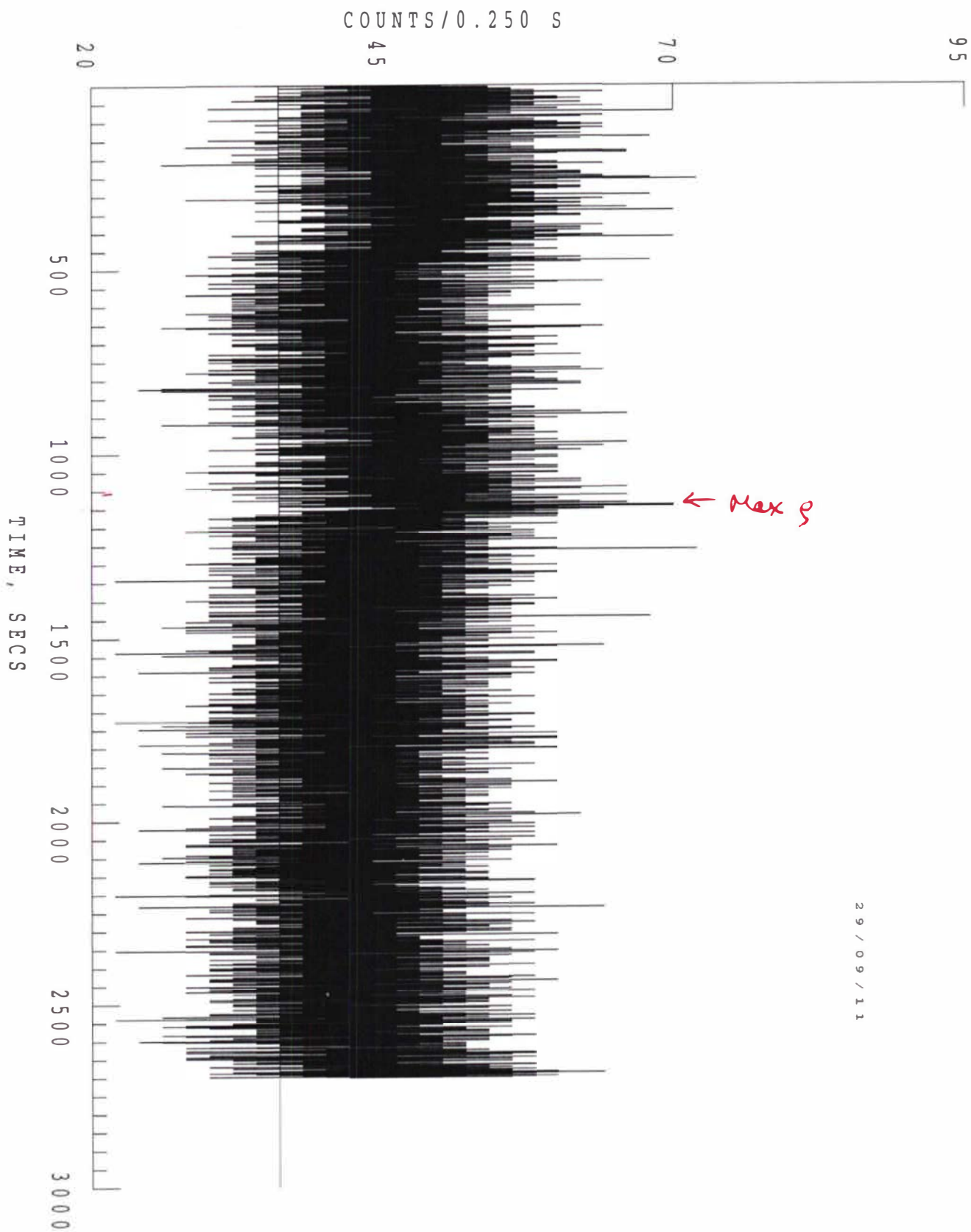
MS01

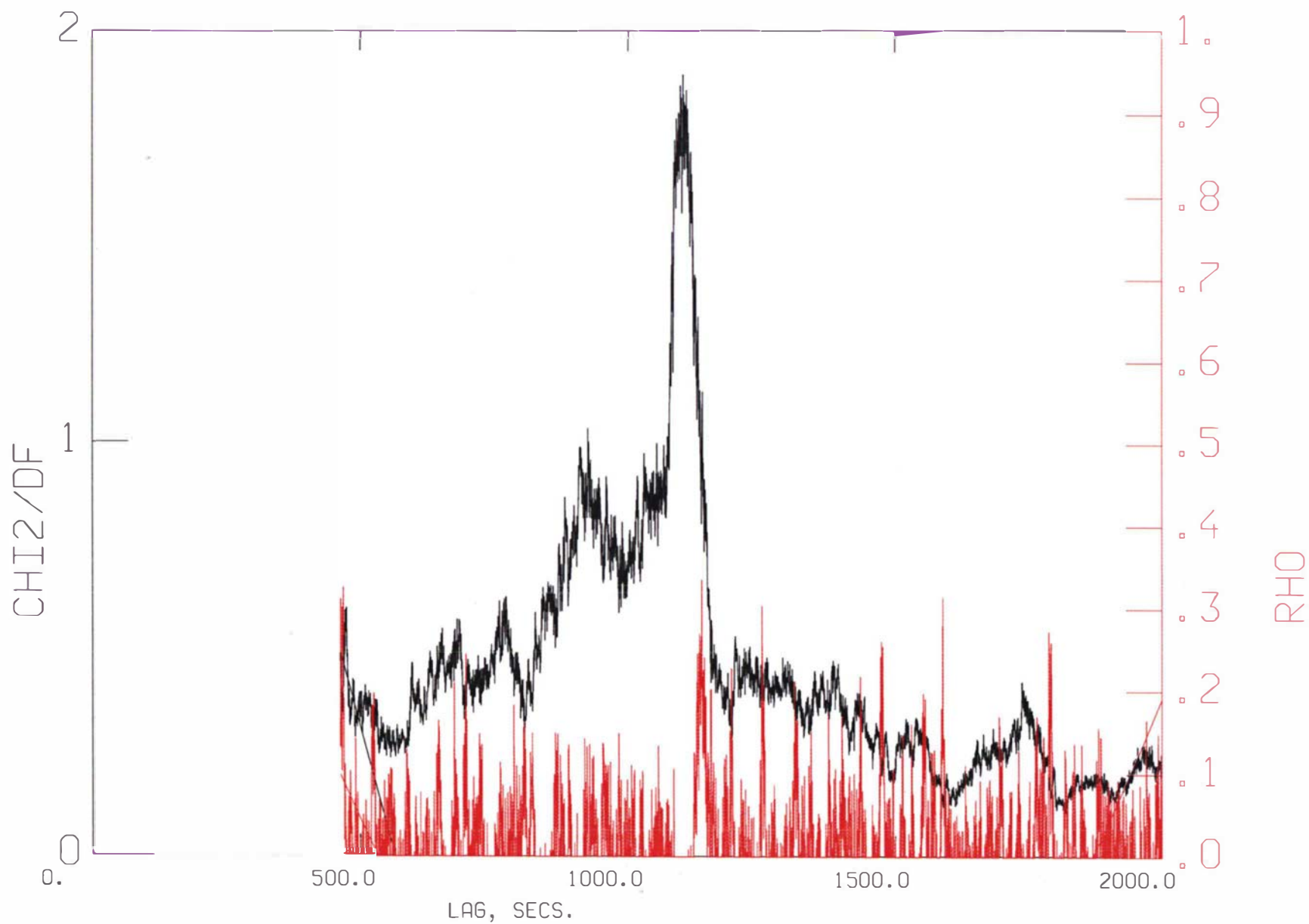
29/09/11

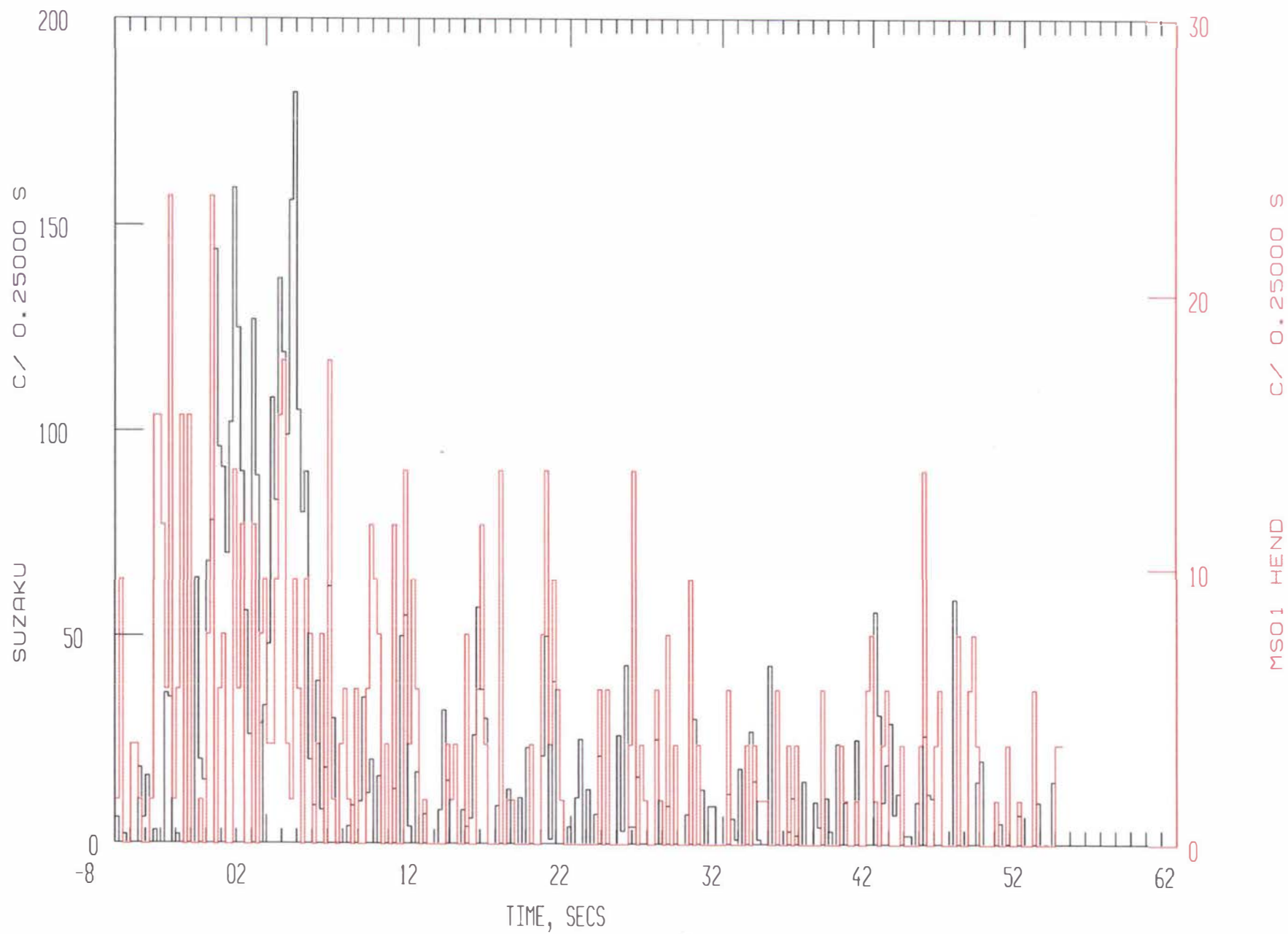
72608.038

3E

50 - 3000 keV







From williams@gammaburst.ssl.berkeley.edu Tue Oct 4 23:04:29 2011
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
Date: Tue, 4 Oct 2011 23:03:58 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for SUZAKU 20110929_73978
X-Ucb-Scan-Signature: e2d1dba88a4ddef4cf0886135641d8017b3feb1b
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 23:05:56.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
No Eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

E

05/12/11

MESSENGER

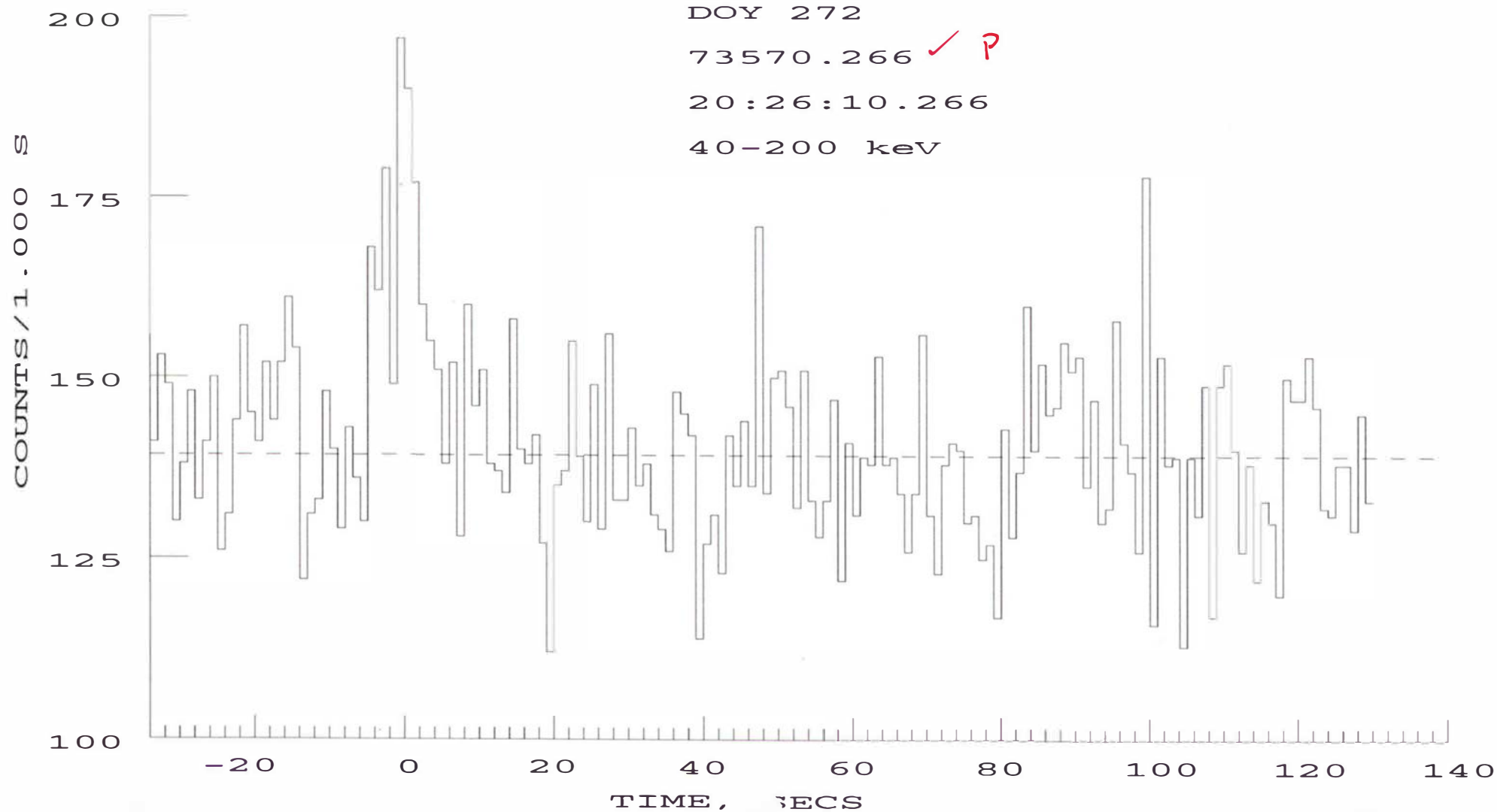
29/09/11

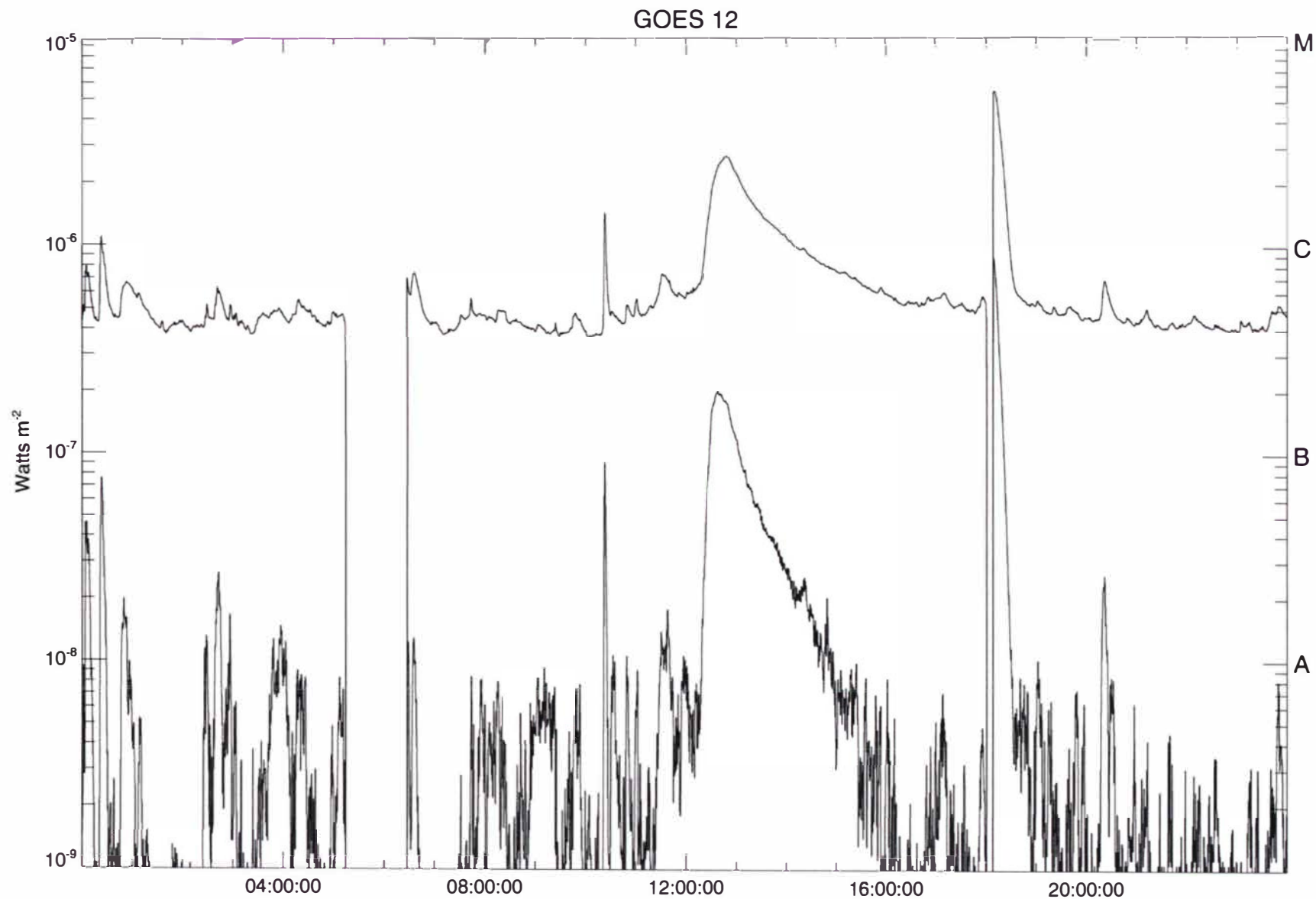
DOY 272

73570.266 ✓ P

20:26:10.266

40-200 keV





Data Start: 11/09/29, 0000:09

Plot created: 11/10/02, 0834

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

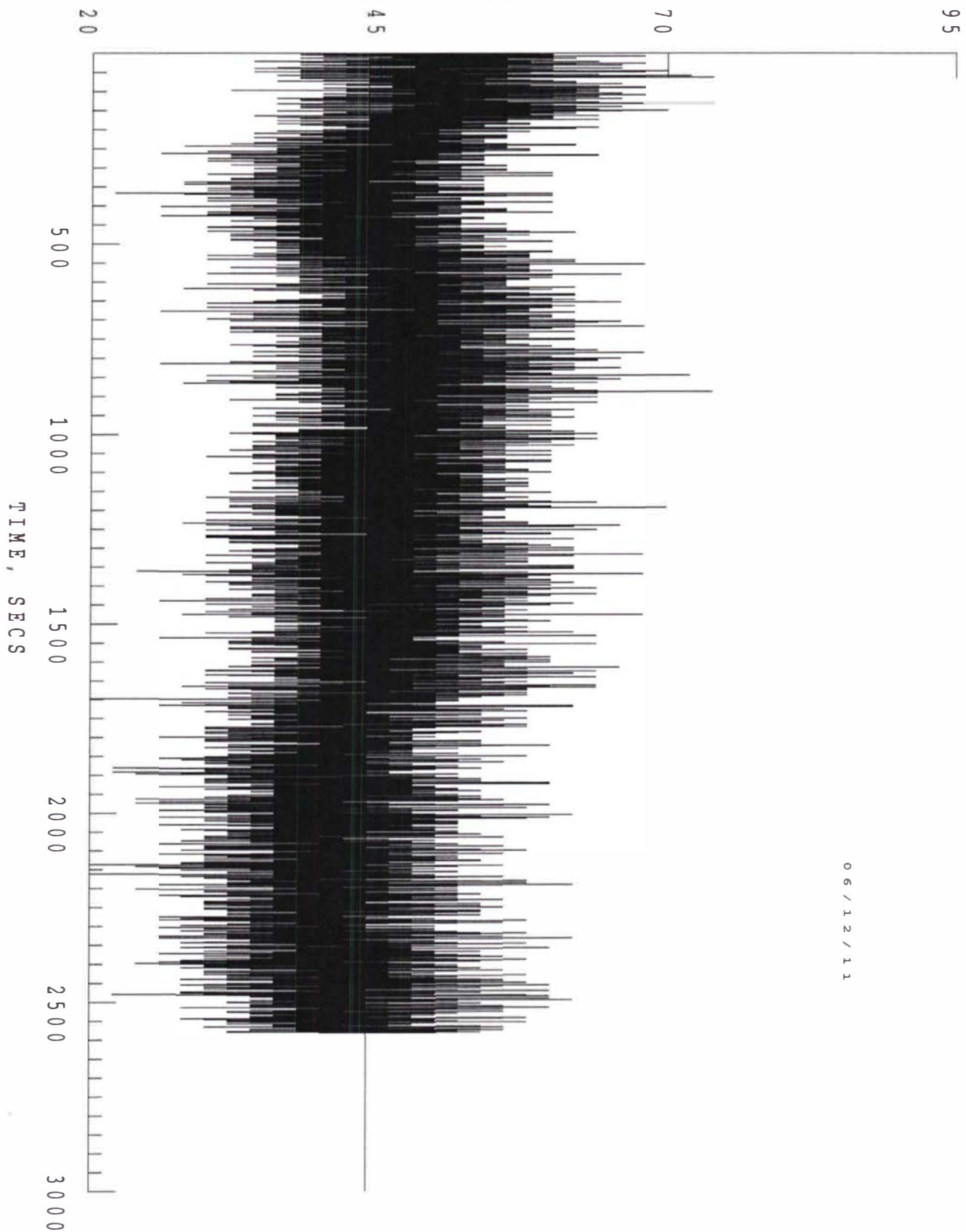
MS01

30/09/11

25147.364

50 - 3000 keV

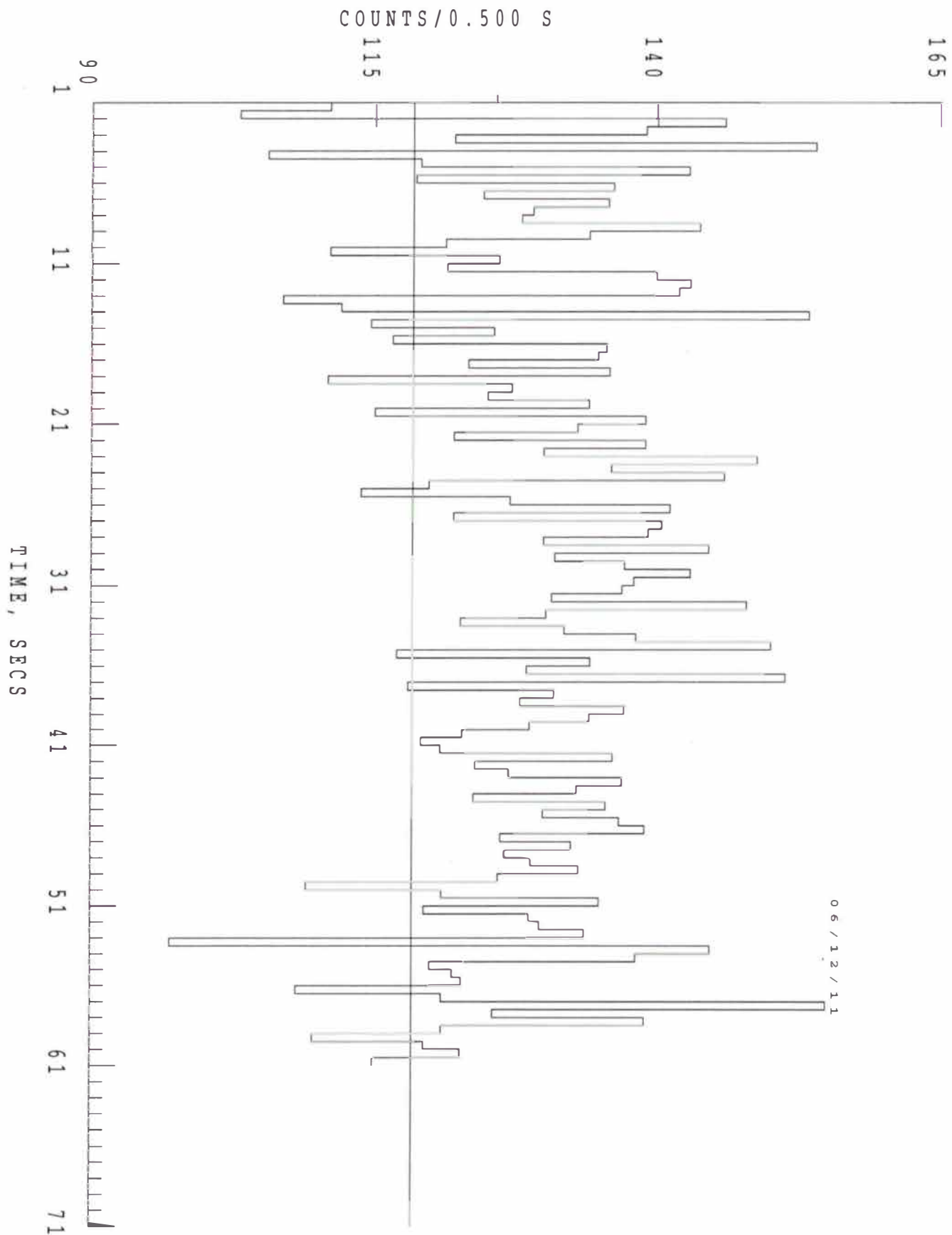
COUNTS/0.250 S



HESSI

30/09/11 26434.000 (KONUS_RI_20110930_26465)

50- 200 keV



GLAST

30/09/11

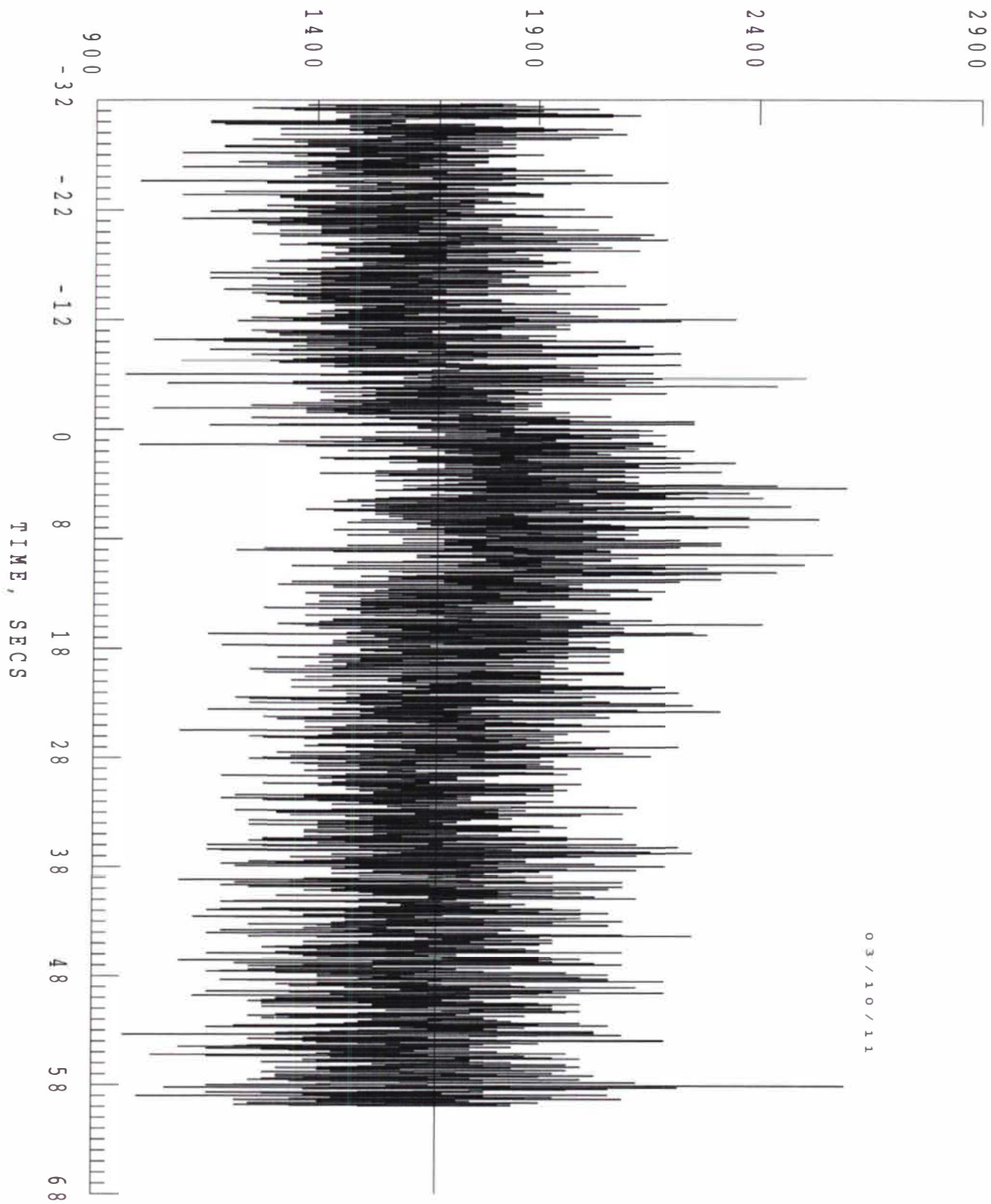
48751.189

13:32:31

26- 293 keV

187.31 -52.34 5.05

COUNTS/0.032 S

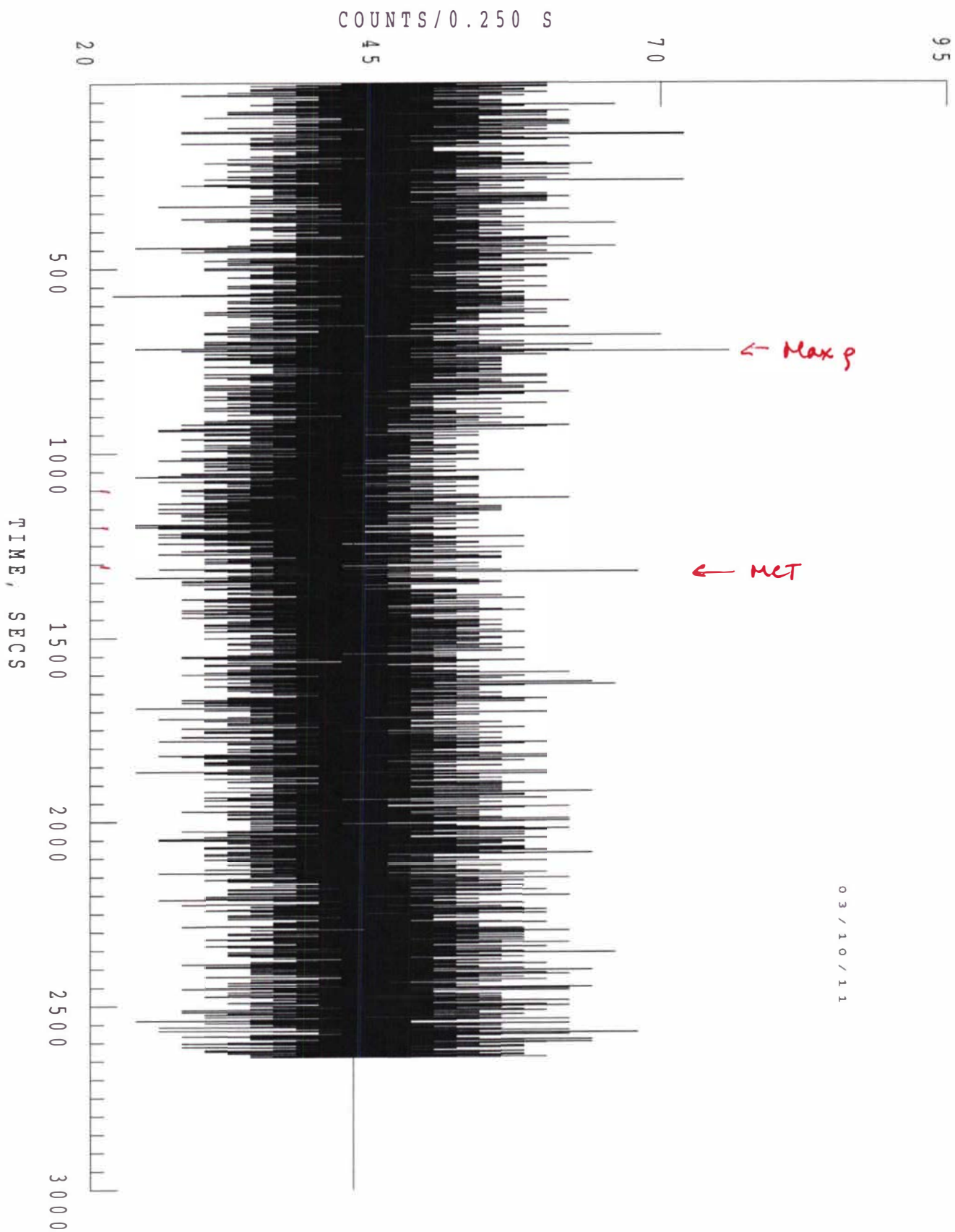


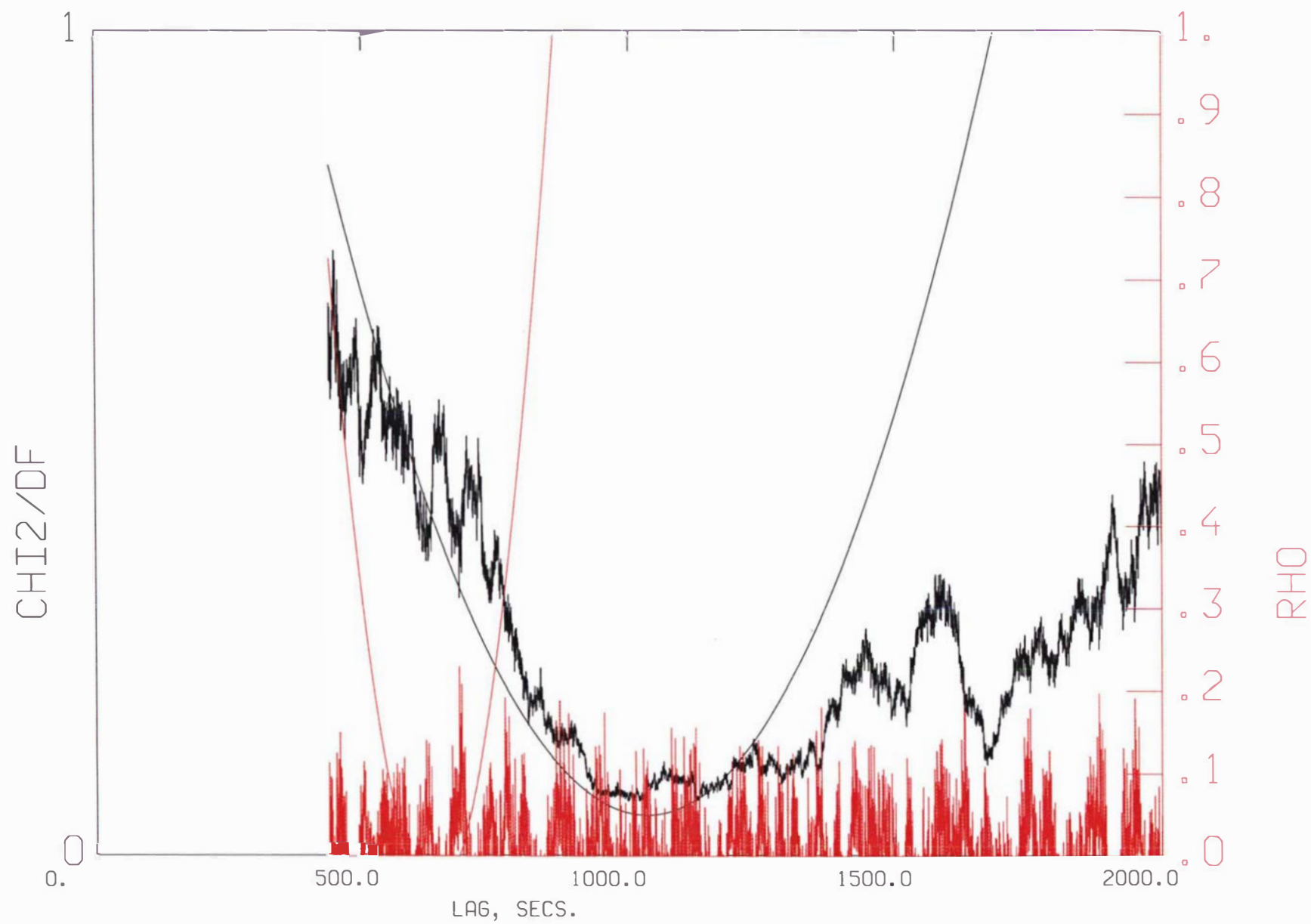
MS01

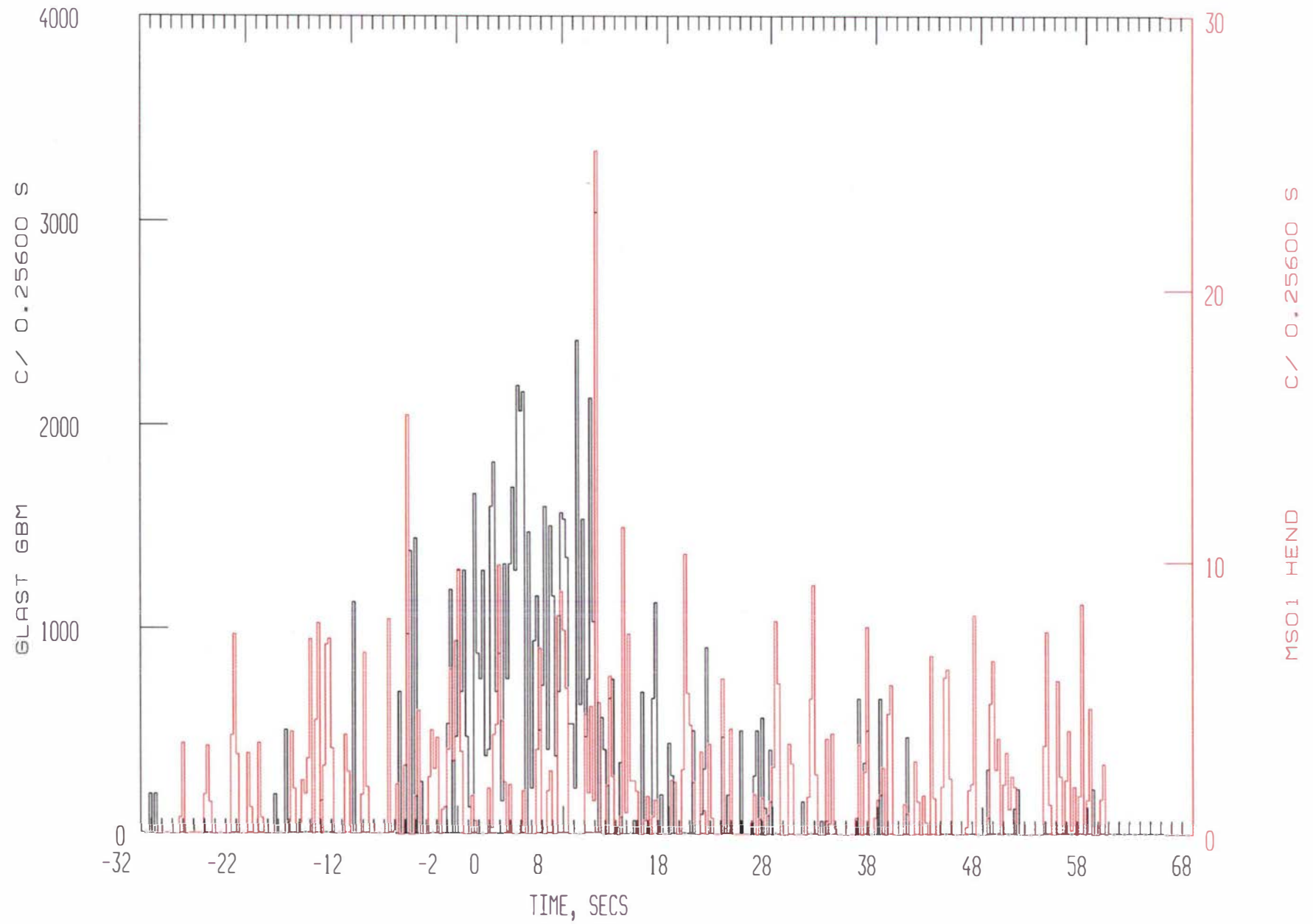
30/09/11

47406.974

50 - 3000 keV







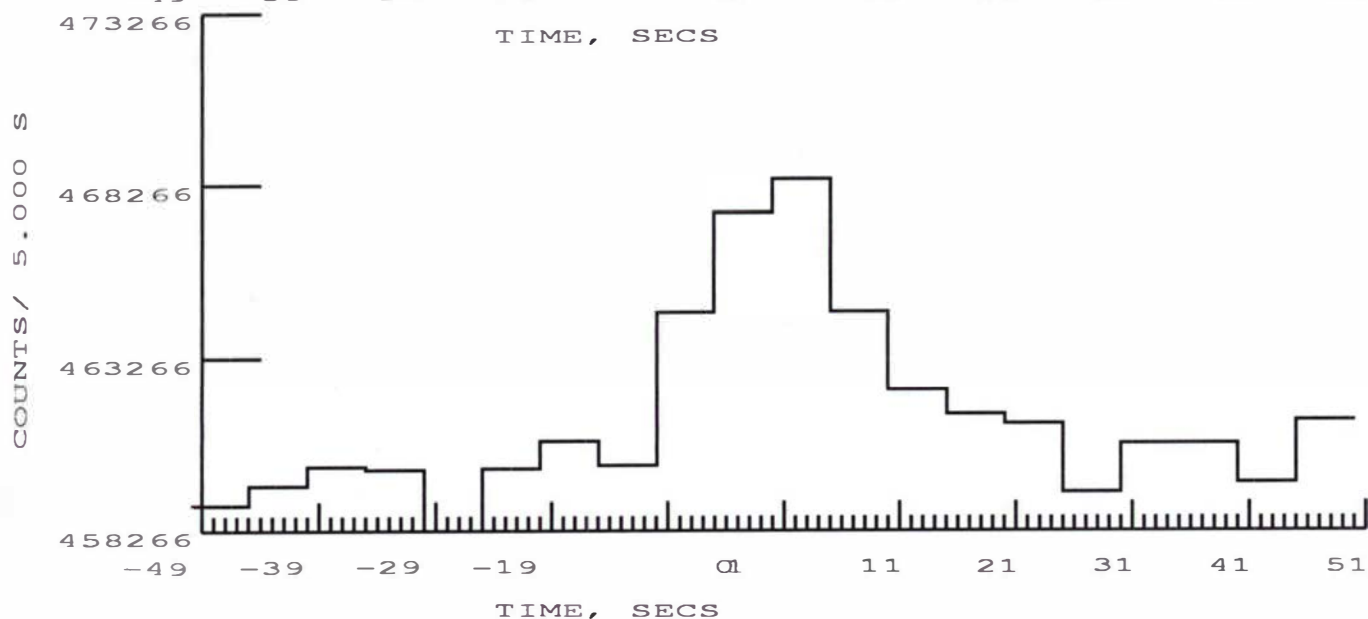
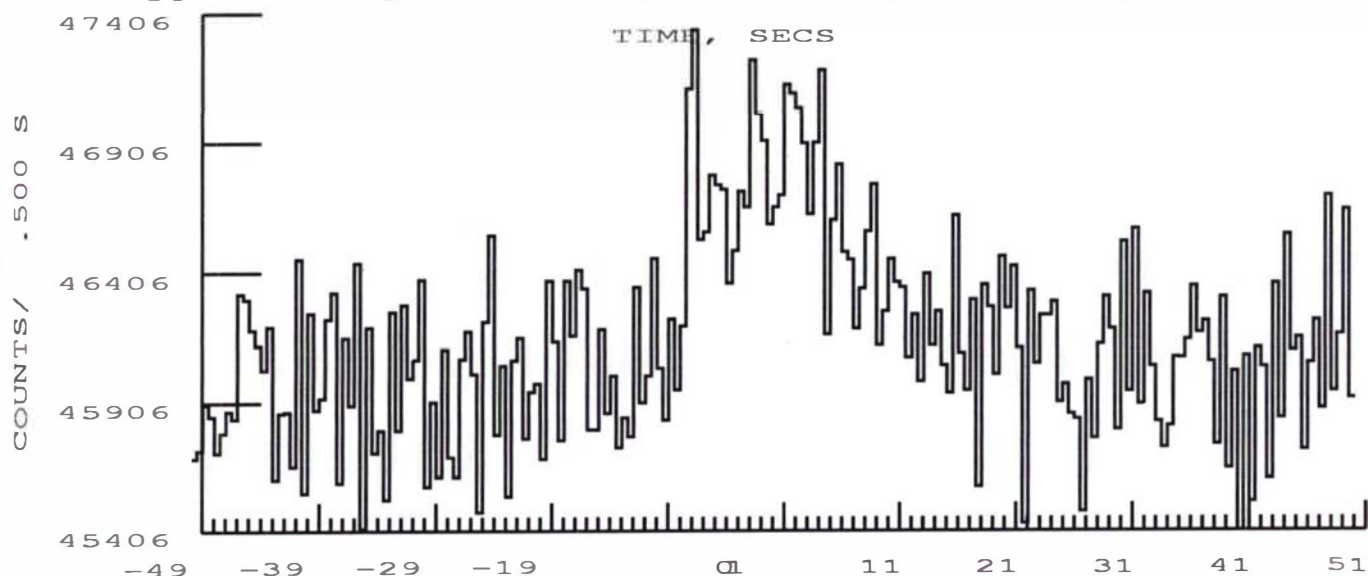
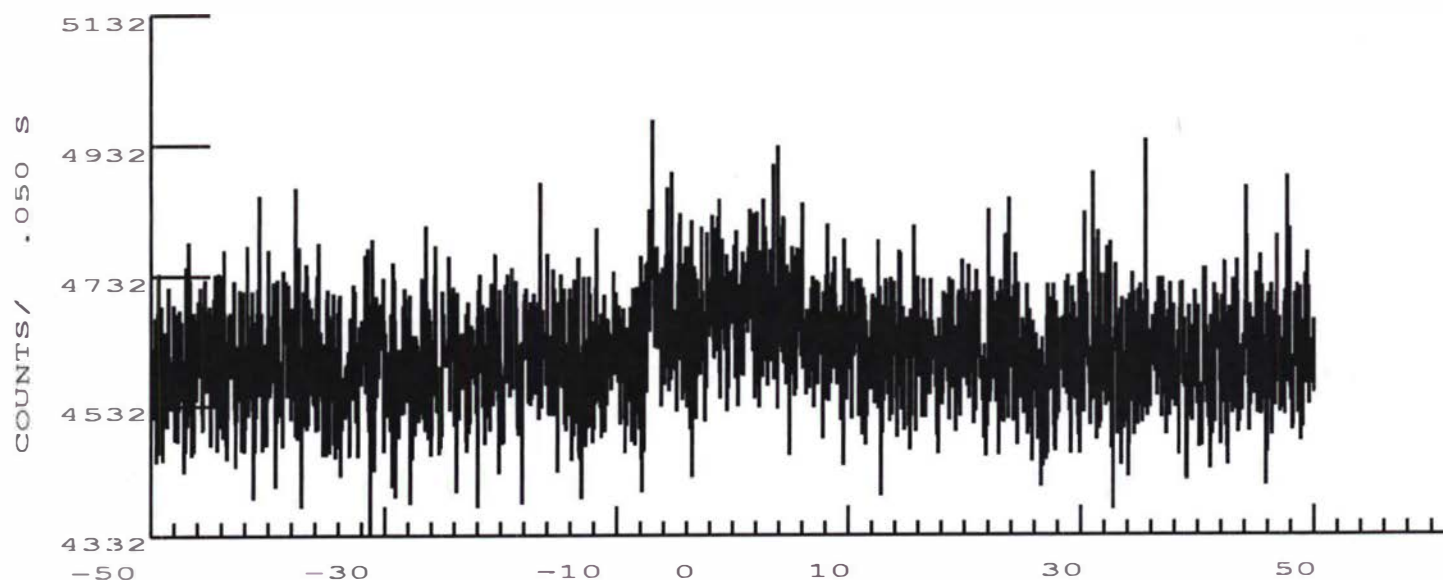
INTEGRAL

30/09/11

48751.000

13:32:31.0

20/01/14

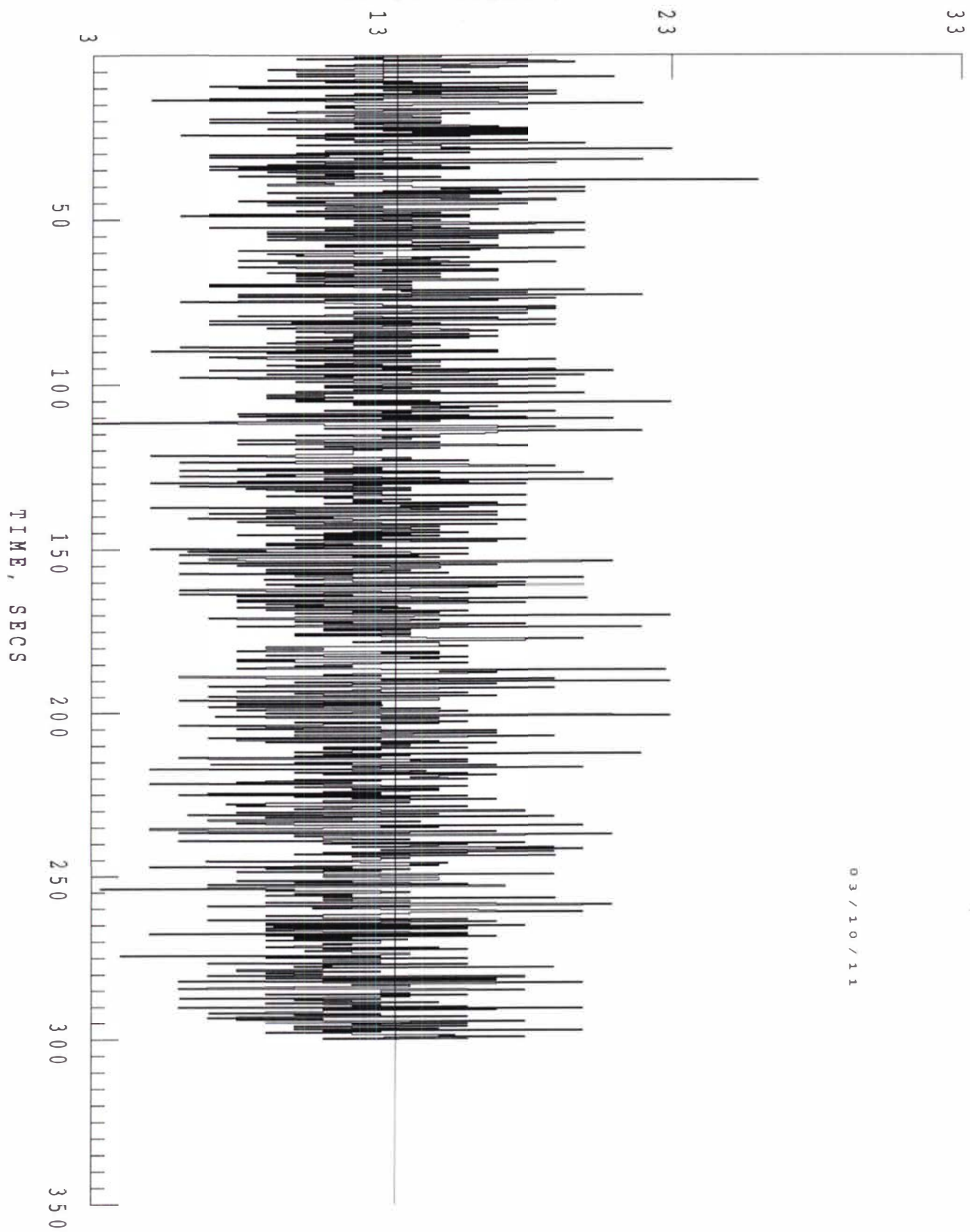


HESSI

30/09/11 48601.000 (GLAST_20110930_48751)

25- 150 keV

COUNTS/0.250 S



Subject: [lpn] BAT lightcurve for trigger at 110930_1332

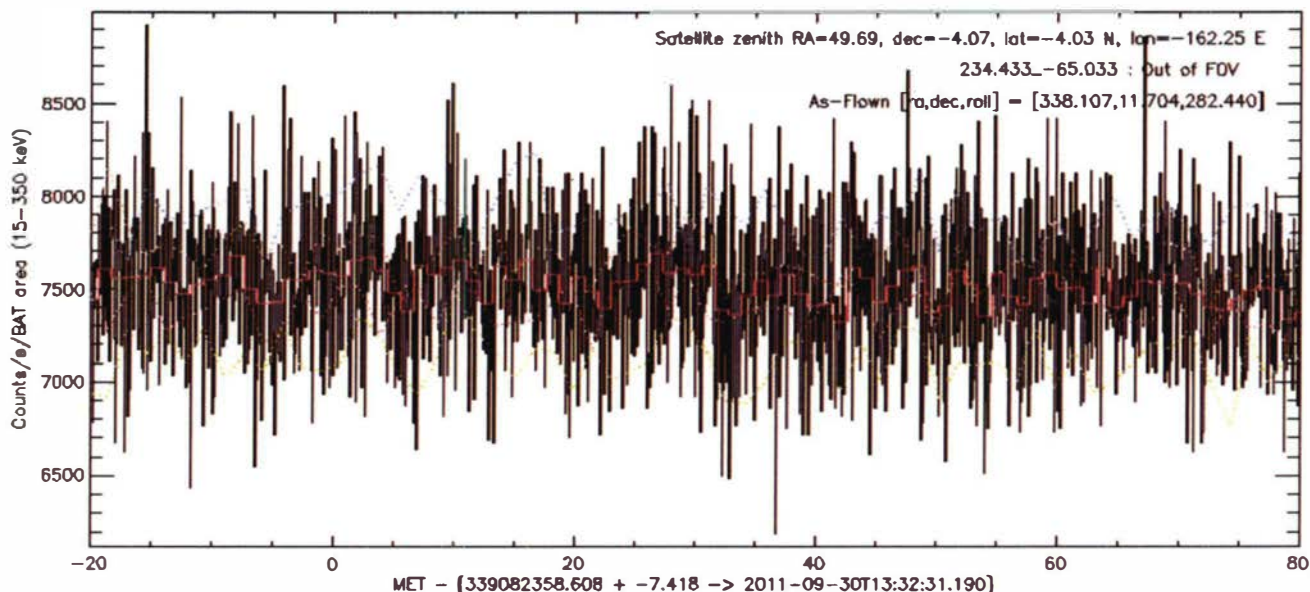
From: palmer+automatic_lightcurve@lanl.gov

Date: Fri, 30 Sep 2011 11:38:17 -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/110930_1332.png



```
% /usr/local/bin/swinfo -o 339082358.608
Time(MET + UTC -> UT): 339082358.608 + -7.418 -> 2011-09-30T13:32:31.190
Swift Zenith(RA,dec): 49.69, -4.07
Swift Location(lon,lat,alt): -162.25 E, -4.03 N, 594 km
Obs Sequence Number: 00091094014
Obs Target Name: CTA102
Obs Date and Times: 2011-09-30 13:28:54 - 13:34:53
Obs Pointing(ra,dec,roll): 338.107, 11.704, 282.44

% /usr/local/bin/swinfo -o 339082358.608 -s 183.660 -56.750
Time(MET + UTC -> UT): 339082358.608 + -7.418 -> 2011-09-30T13:32:31.190
Swift Zenith(RA,dec): 49.69, -4.07
Swift Location(lon,lat,alt): -162.25 E, -4.03 N, 594 km
Obs Sequence Number: 00091094014
Obs Target Name: CTA102
Obs Date and Times: 2011-09-30 13:28:54 - 13:34:53
Obs Pointing(ra,dec,roll): 338.107, 11.704, 282.44
183.660 -56.750_imageloc (boresight_dist, angle): (131, -174)
183.660 -56.750_exposure (cm^2 cos adjusted): 0
183.660 -56.750_altitude: 5 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 339082358.608 -s 199.920 -61.410
Time(MET + UTC -> UT): 339082358.608 + -7.418 -> 2011-09-30T13:32:31.190
Swift Zenith(RA,dec): 49.69, -4.07
Swift Location(lon,lat,alt): -162.25 E, -4.03 N, 594 km
Obs Sequence Number: 00091094014
Obs Target Name: CTA102
Obs Date and Times: 2011-09-30 13:28:54 - 13:34:53
Obs Pointing(ra,dec,roll): 338.107, 11.704, 282.44
199.920 -61.410_imageloc (boresight_dist, angle): (122, -170)
199.920 -61.410_exposure (cm^2 cos adjusted): 0
199.920 -61.410_altitude: 3 (depressed but unattenuated)

% /usr/local/bin/swinfo -o 339082358.608 -s 234.433 -65.033
Time(MET + UTC -> UT): 339082358.608 + -7.418 -> 2011-09-30T13:32:31.190
Swift Zenith(RA,dec): 49.69, -4.07
Swift Location(lon,lat,alt): -162.25 E, -4.03 N, 594 km
Obs Sequence Number: 00091094014
Obs Target Name: CTA102
```

Obs Date and Times: 2011-09-30 13:28:54 - 13:34:53
Obs Pointing(ra,dec,roll): 338.107, 11.704, 282.44
234.433_-65.033_imageloc (boresight_dist, angle): (106, -167)
234.433_-65.033_exposure (cm² cos adjusted): 0
234.433_-65.033_altitude: 3 (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/110930_1332_bat64ms_ipn	Content-Type: application/octet-stream Content-Encoding: base64
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/tmp/110930_1332.png

/tmp/110930_1332.png	Content-Type: image/png Content-Encoding: base64
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Part 1.4

Part 1.4	Content-Type: text/plain Content-Encoding: 7bit
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Part 1.5

Part 1.5	Content-Type: text/plain Content-Encoding: 7bit
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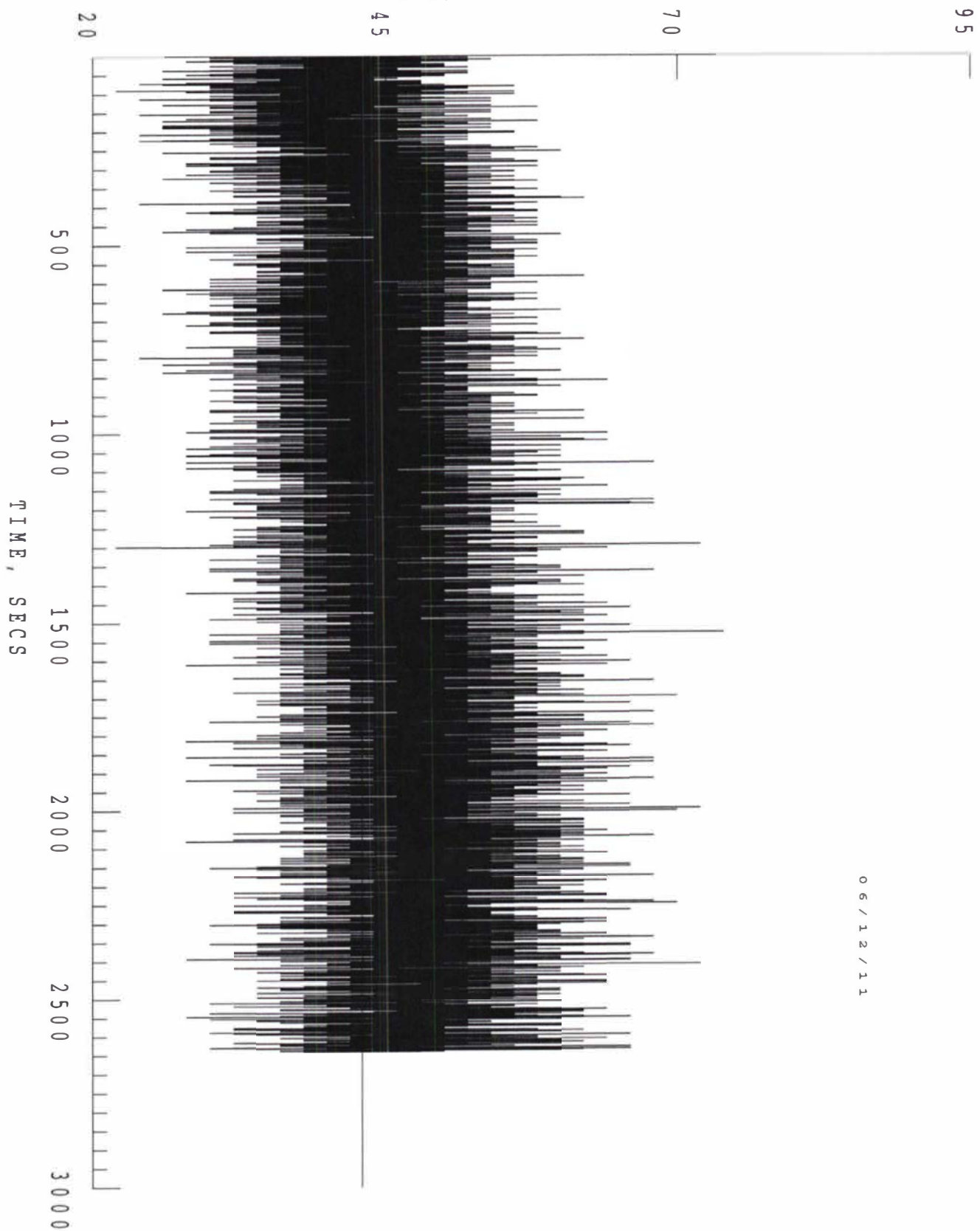
MS01

30/09/11

58986.780

50 - 3000 keV

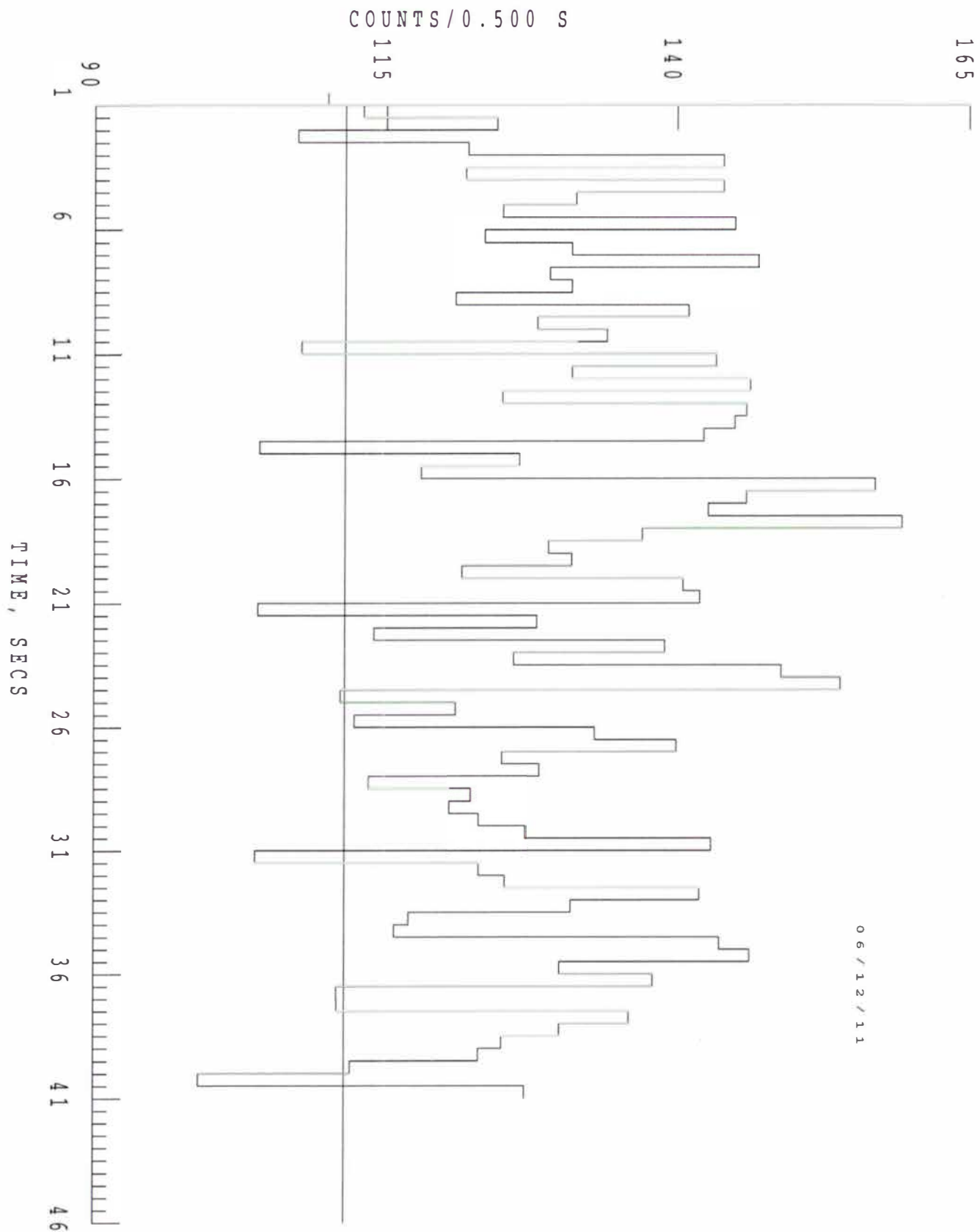
COUNTS/0.250 S



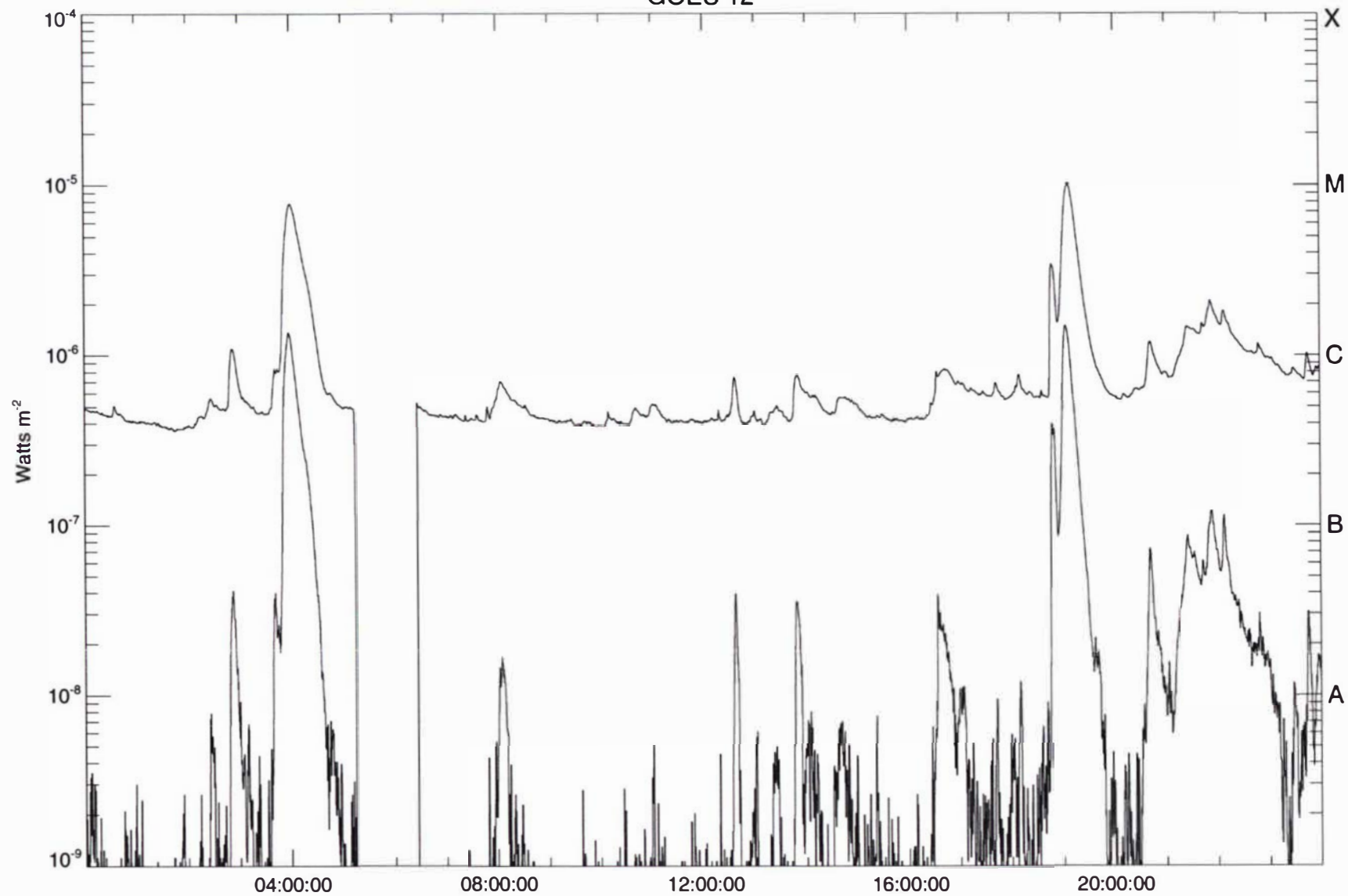
HESSI

30/09/11 60320.000 (SUZAKU_RI_20110930_60341)

25- 150 keV



GOES 12



Data Start: 11/09/30, 0000:09

Plot created: 11/10/03, 0834

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Sample average = 10