

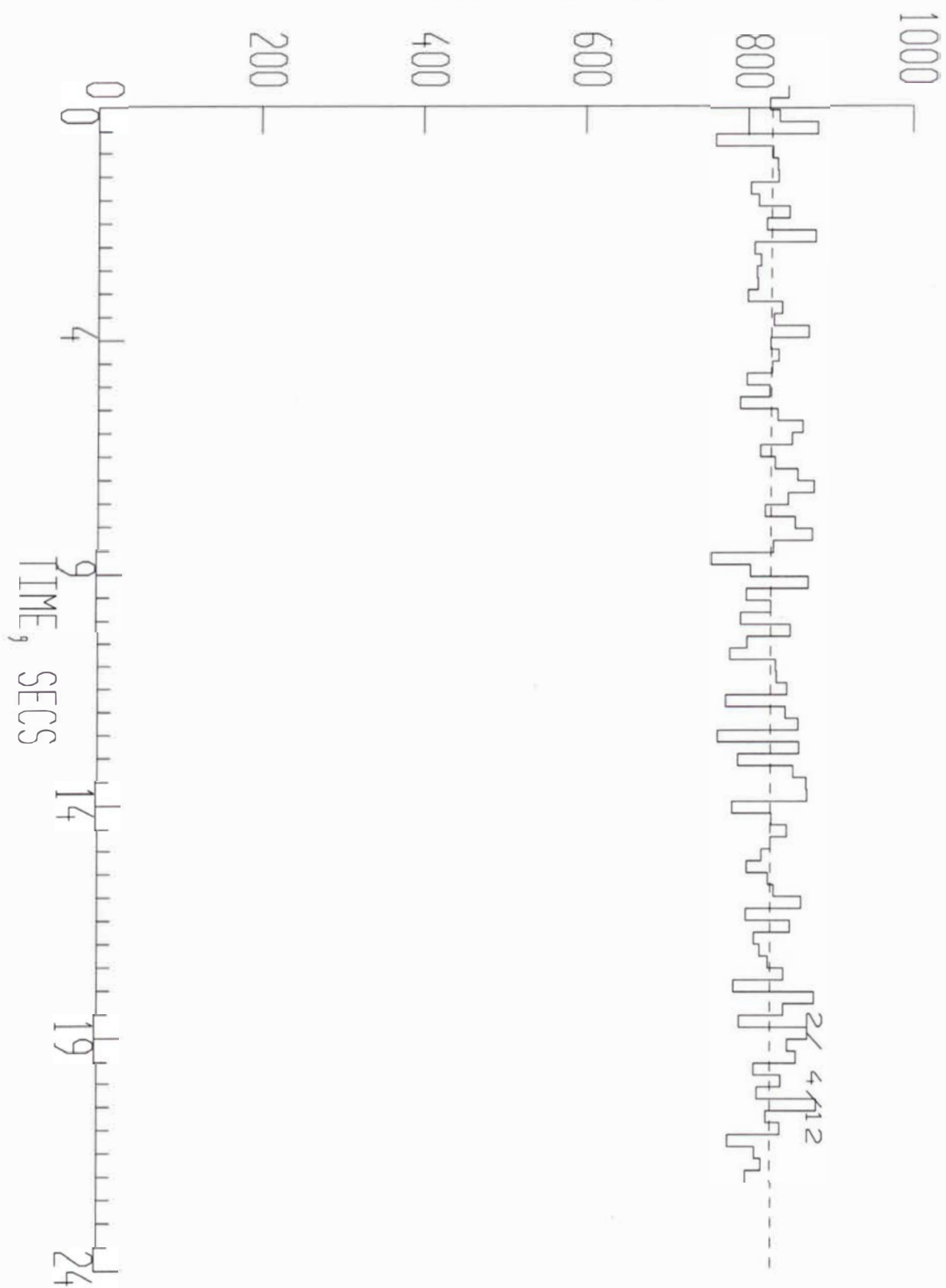
From vxw@capella2.gsfc.nasa.gov Sat Mar 31 22:29:32 2012
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.144
X-Barracuda-Apparent-Source-IP: 128.183.96.236
X-Barracuda-RBL-IP: 128.183.96.236
Date: Sun, 1 Apr 2012 01:30:08 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT_BAT_LIGHTCURVE
X-Ucb-Scan-Signature: 0211648f8a6375f469882cba8090e097110557ed
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Sun 01 Apr 12 05:28:17 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 519043, Seg_Num: 0
GRB_RA: 58.068d {+03h 52m 16s} (J2000),
58.207d {+03h 52m 50s} (current),
57.503d {+03h 50m 01s} (1950)
GRB_DEC: -17.671d {-17d 40' 15"} (J2000),
-17.635d {-17d 38' 05"} (current),
-17.819d {-17d 49' 09"} (1950)
GRB_DATE: 16018 TJD; 92 DOY; 12/04/01
GRB_TIME: 19455.94 SOD {05:24:15.94} UT
TRIGGER_INDEX: 20000
GRB_PHI: 141.11 [deg]
GRB_THETA: 1.79 [deg]
DELTA_TIME: 0.00 [sec]
TRIGGER_DUR: 64.000 [sec]
SOLN_STATUS: 0x13
RATE_SIGNIF: 0.00 [sigma]
IMAGE_SIGNIF: 7.99 [sigma]
LC_URL: sw00519043000msb.lc
SUN_POSTN: 10.94d {+00h 43m 45s} +4.70d {+04d 42' 06"}
SUN_DIST: 51.71 [deg] Sun angle= -3.2 [hr] (East of Sun)
MOON_POSTN: 119.49d {+07h 57m 57s} +16.53d {+16d 32' 05"}
MOON_DIST: 69.34 [deg]
MOON_ILLUM: 64 [%]
GAL_COORDS: 209.89,-47.38 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 50.95,-36.88 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS: The next comments were copied from the BAT_POS Notice:
COMMENTS: This is an image trigger.
COMMENTS: A point_source was found.
COMMENTS: This does not match any source in the on-board catalog.
COMMENTS: This does not match any source in the ground catalog.
COMMENTS: This is a GRB.
COMMENTS: This trigger occurred at longitude,latitude = 119.20,-1.34 [deg]

~180 s
 $9.1 \times 10^{-7} \text{ erg cm}^{-2}$
~12 phot/cm²s

SWIFT 01/04/12 19455.946
25- 100 keV

COUNTS/0.256 S



MS01

01/04/12

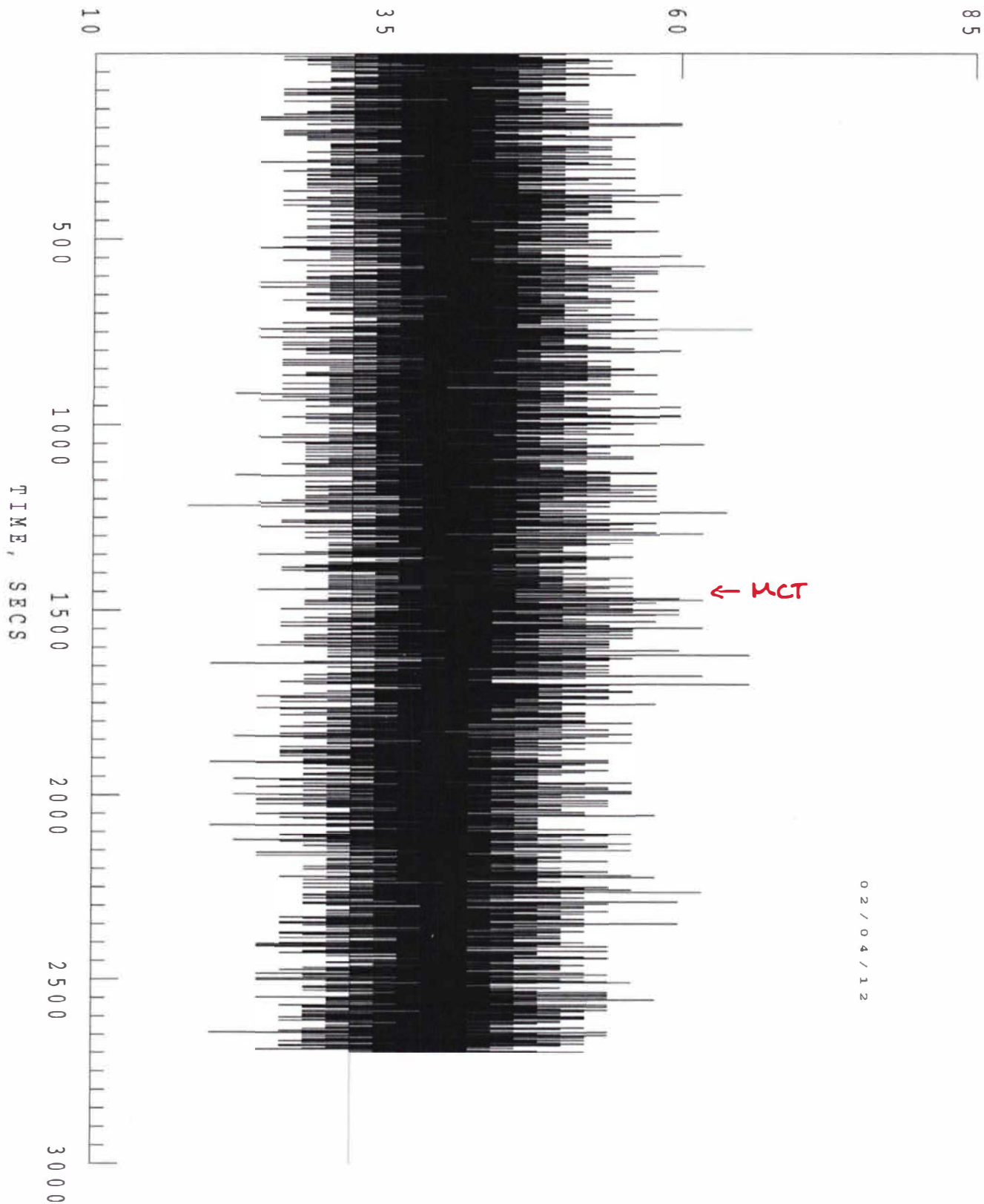
18086.736

50 - 3000 keV

$\angle \text{GRB}/\text{Mars} = 153^\circ$

Unocculted

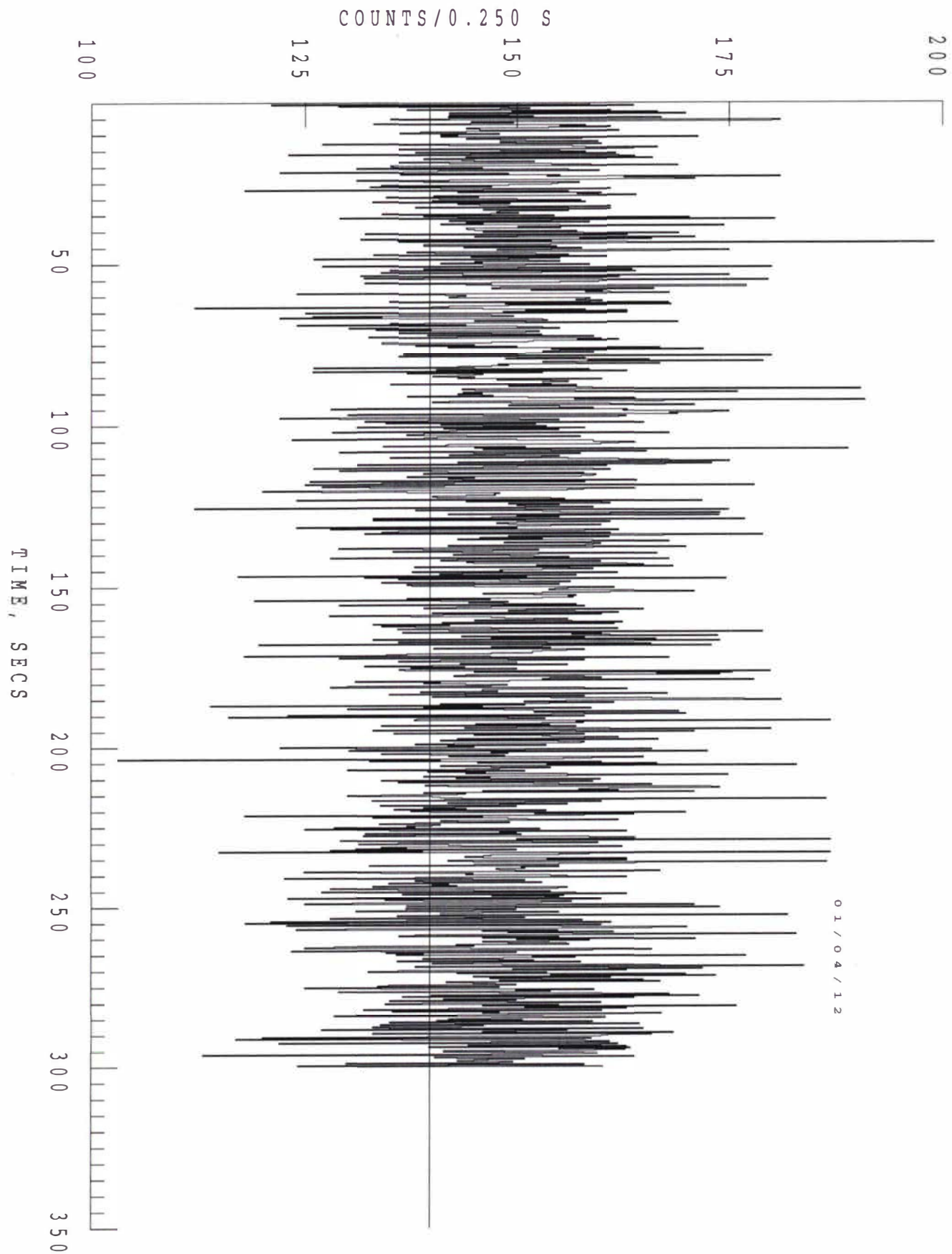
COUNTS/0.250 S



HESSI

01/04/12 19305.000 (SWIFT_20120401_19455)

25- 150 keV



Subject: [Ipn] BAT lightcurve for trigger at 120401_2012

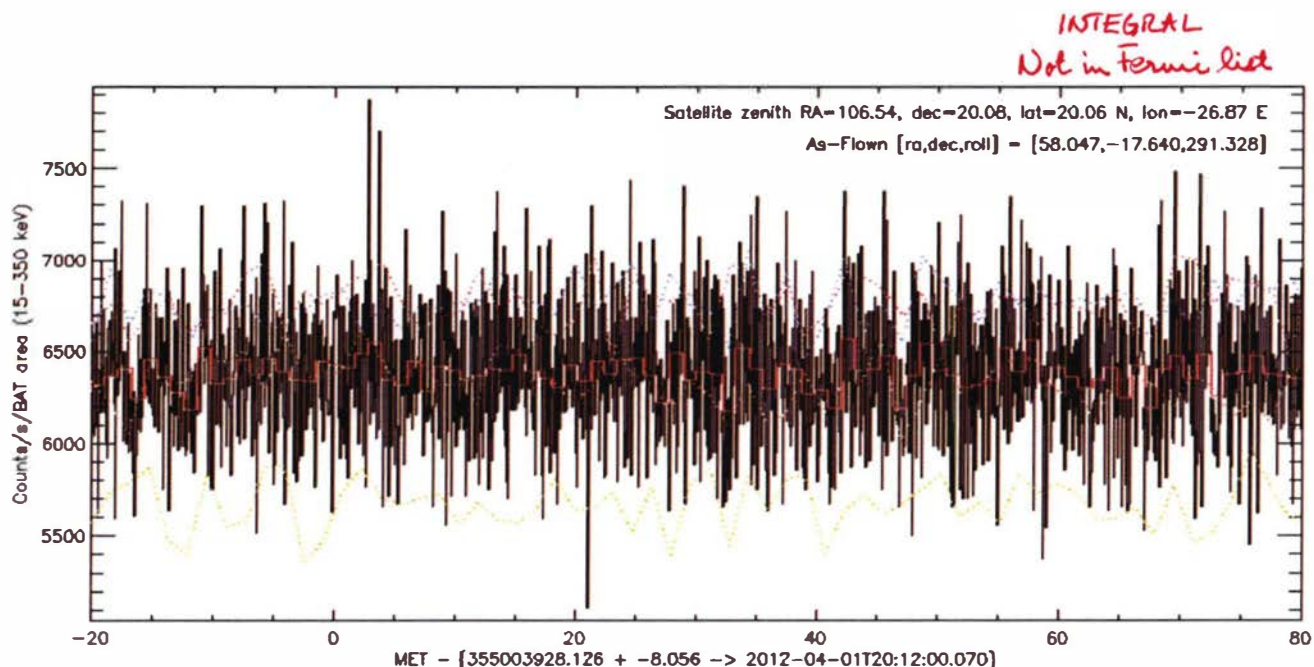
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/1/2012 5:29 PM

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/120401_2012.png



```
% /usr/local/bin/swinfo -o 355003928.126
Time(MET + UTC -> UT):      355003928.126 + -8.056 -> 2012-04-01T20:12:00.070
Swift Zenith(RA,dec):       106.54, 20.08
Swift Location(lon,lat,alt): -26.87 E, 20.06 N, 571 km
Obs Sequence Number:        00519043001
Obs Target Name:             N/A
Obs Date and Times:          2012-04-01 19:34:19 - 20:19:06
Obs Pointing(ra,dec,roll):   58.047, -17.640, 291.33
```

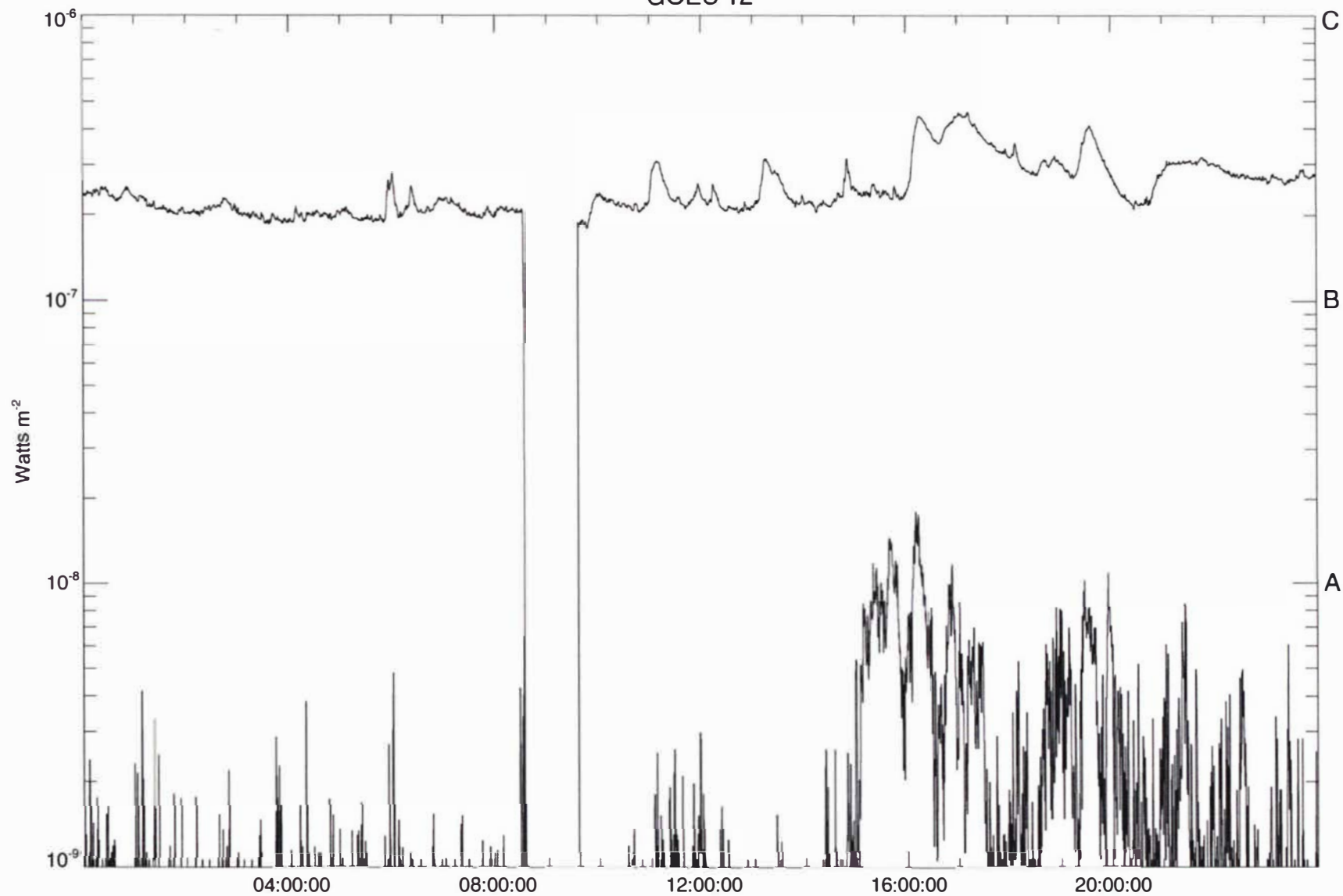
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

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

Attachments:

/tmp/120401_2012.png	22.1 KB
/tmp/120401_2012_bat64ms_ipn	87.0 KB

GOES 12



Data Start: 12/04/01, 0000:09

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 12/04/04, 0842

Sample average = 10

GLAST

02/04/12

57840.758

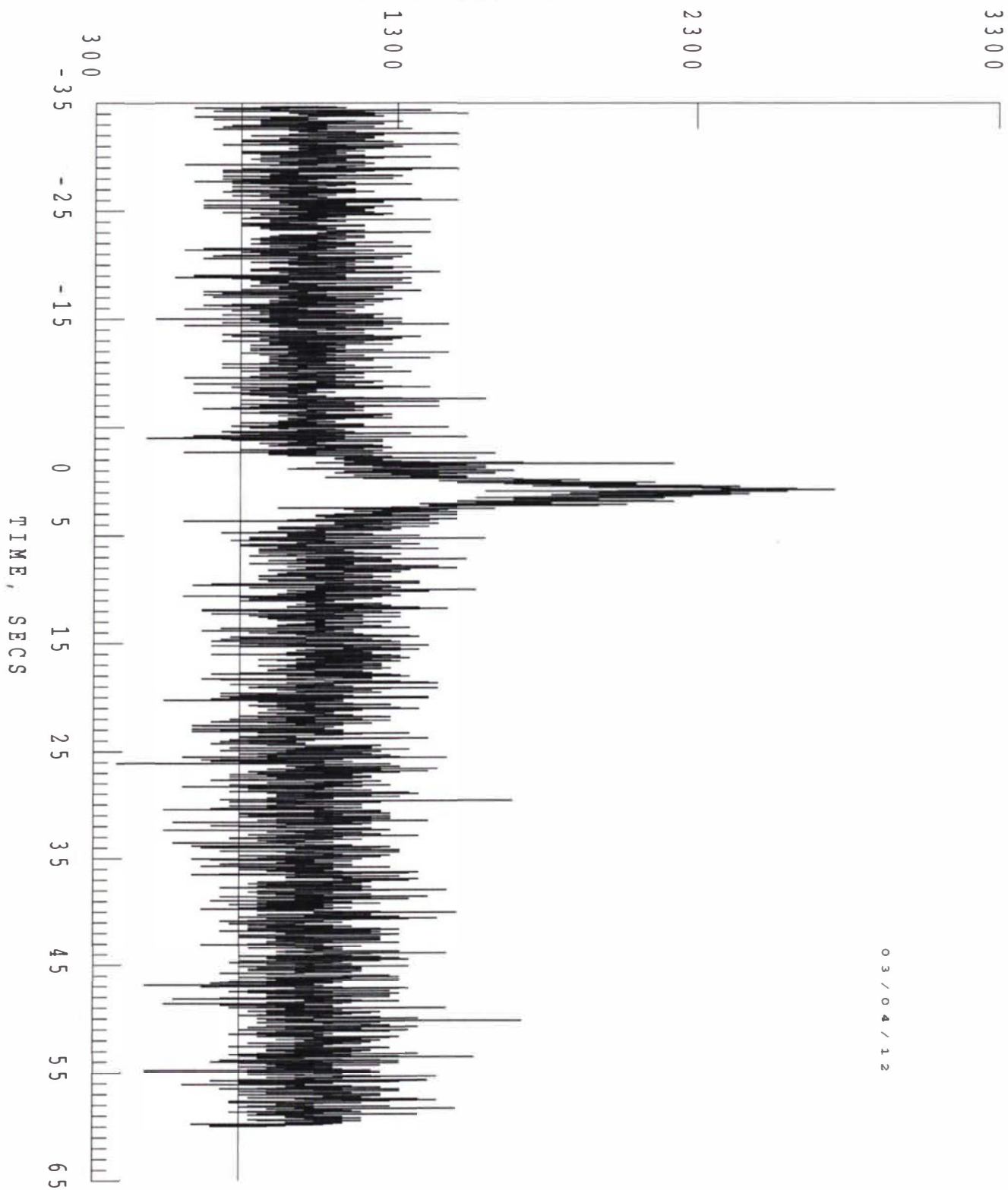
16:04:00

A

26 - 293 keV

223.73 -9.6 2.61

COUNTS/0.032 S



MS01

02/04/12

56484.491

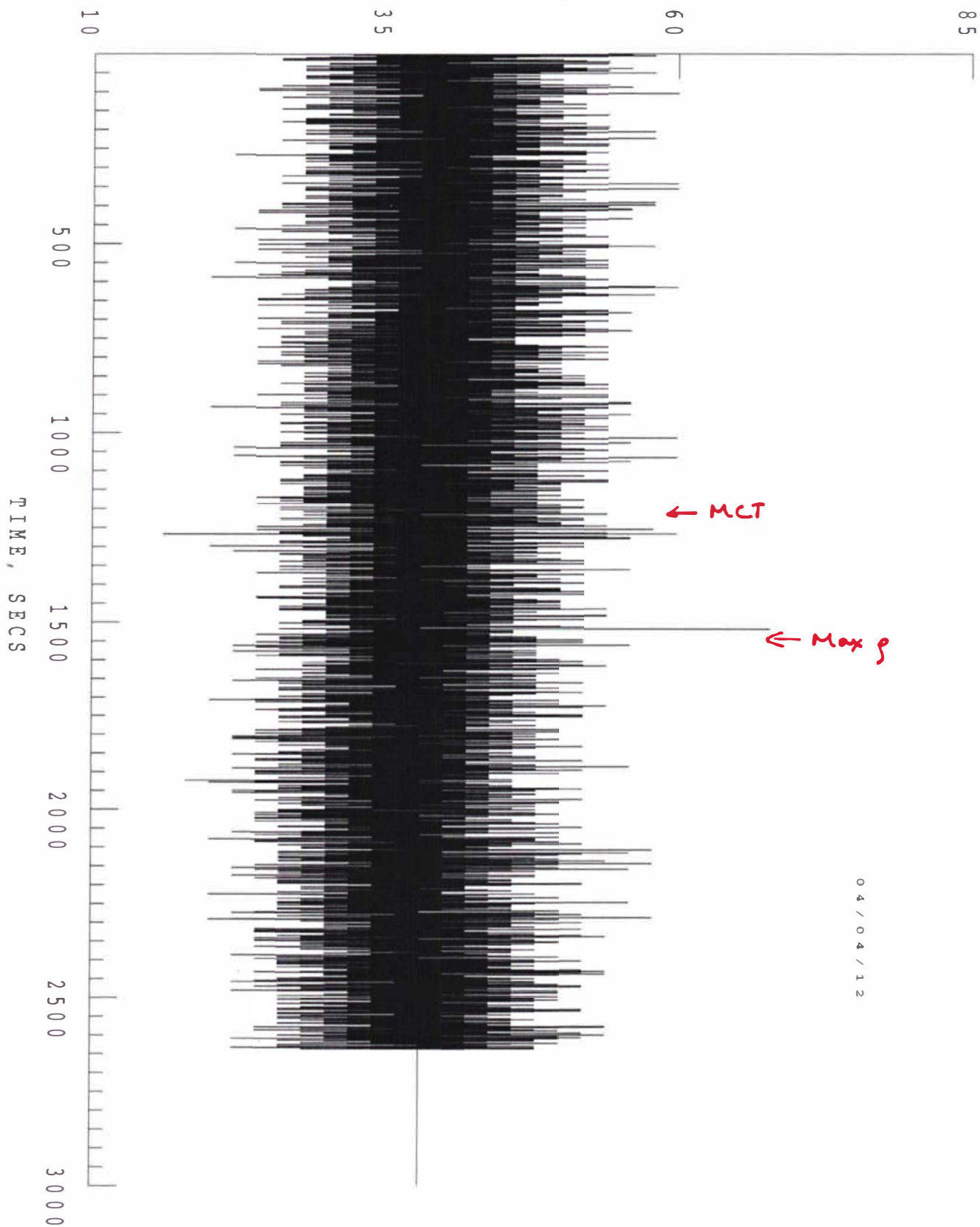
A

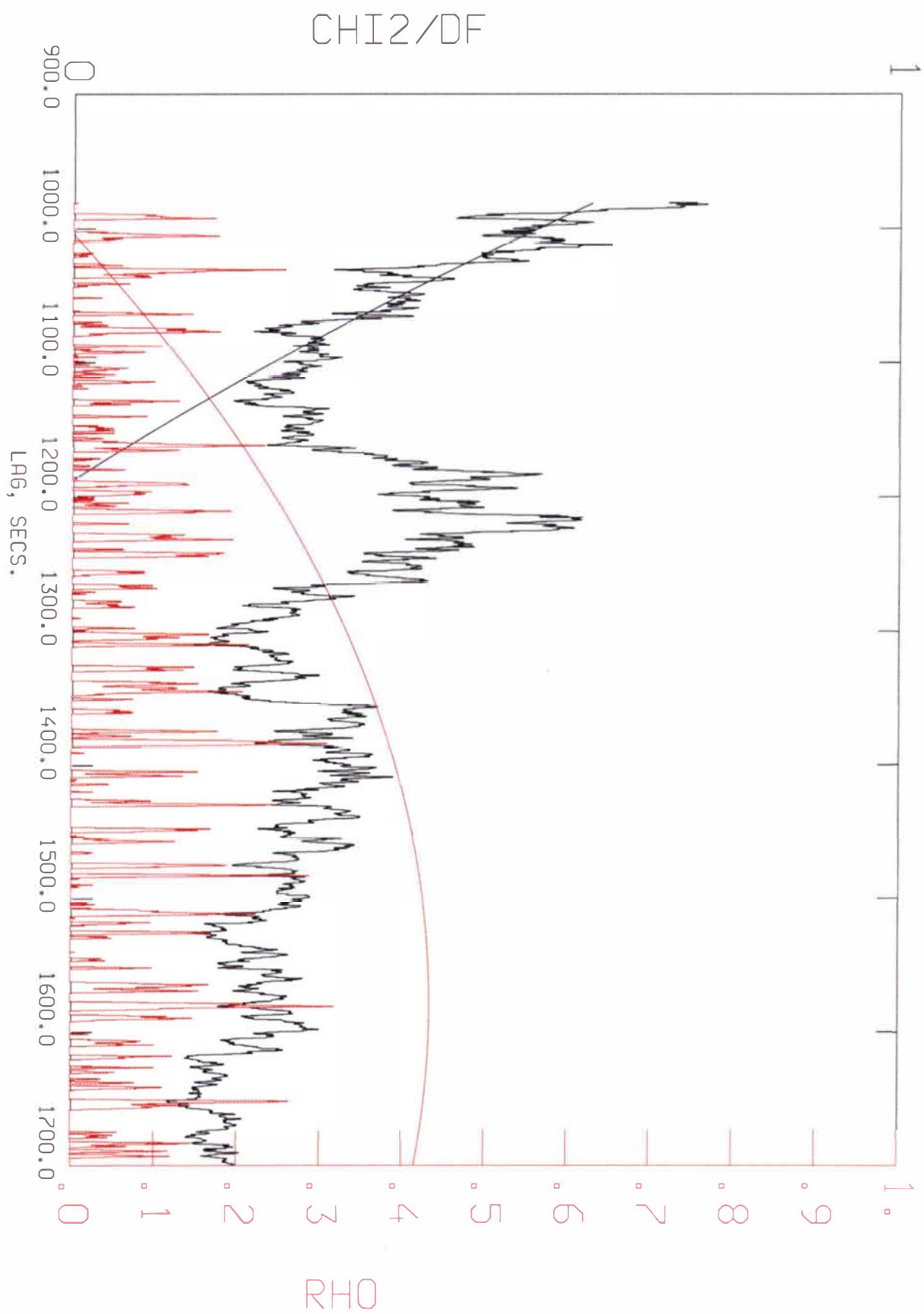
50 - 3000 keV

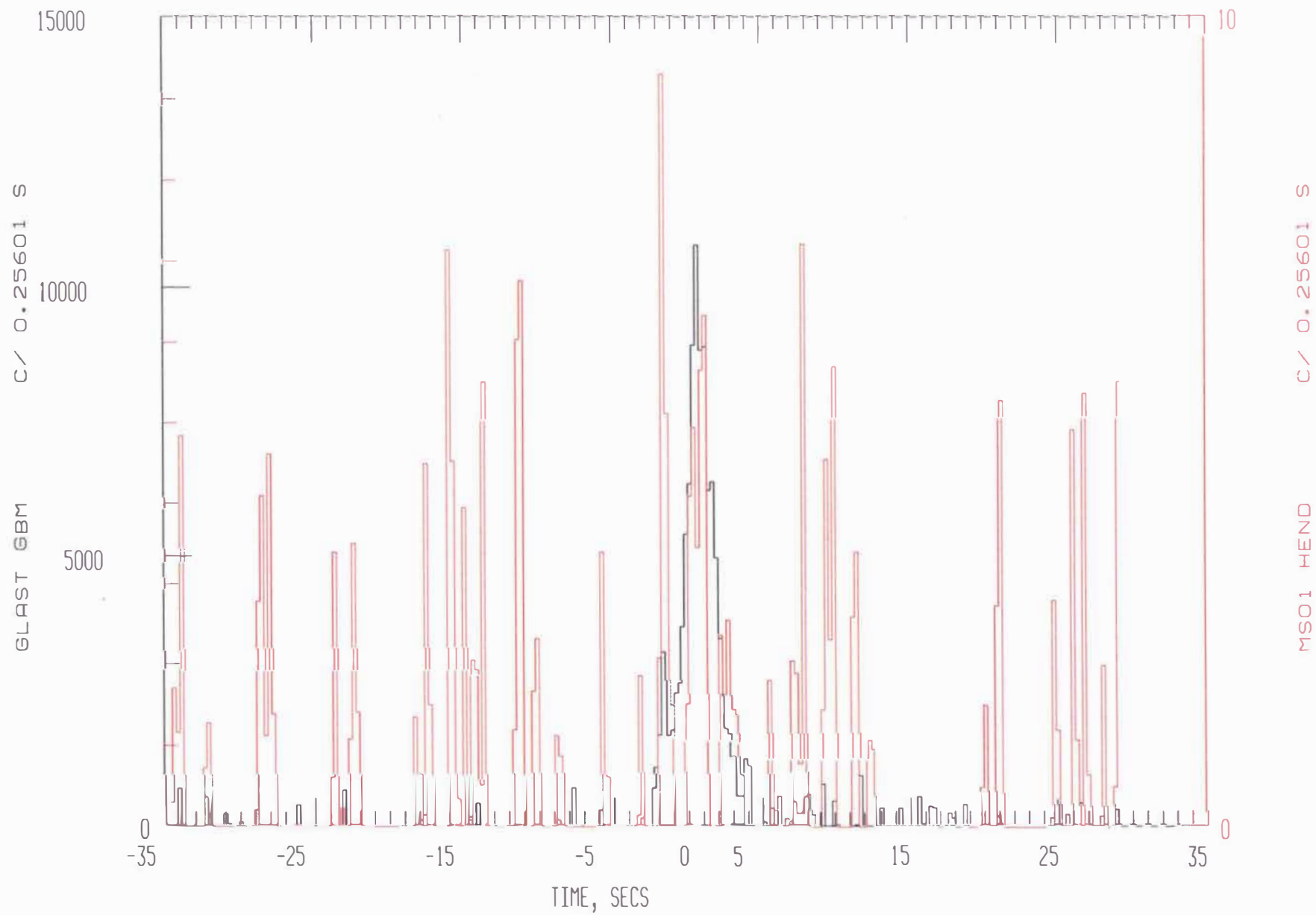
$\angle \text{GRB}/\text{O}/\text{M} = 116^\circ$

Unocculted

COUNTS/0.250 S





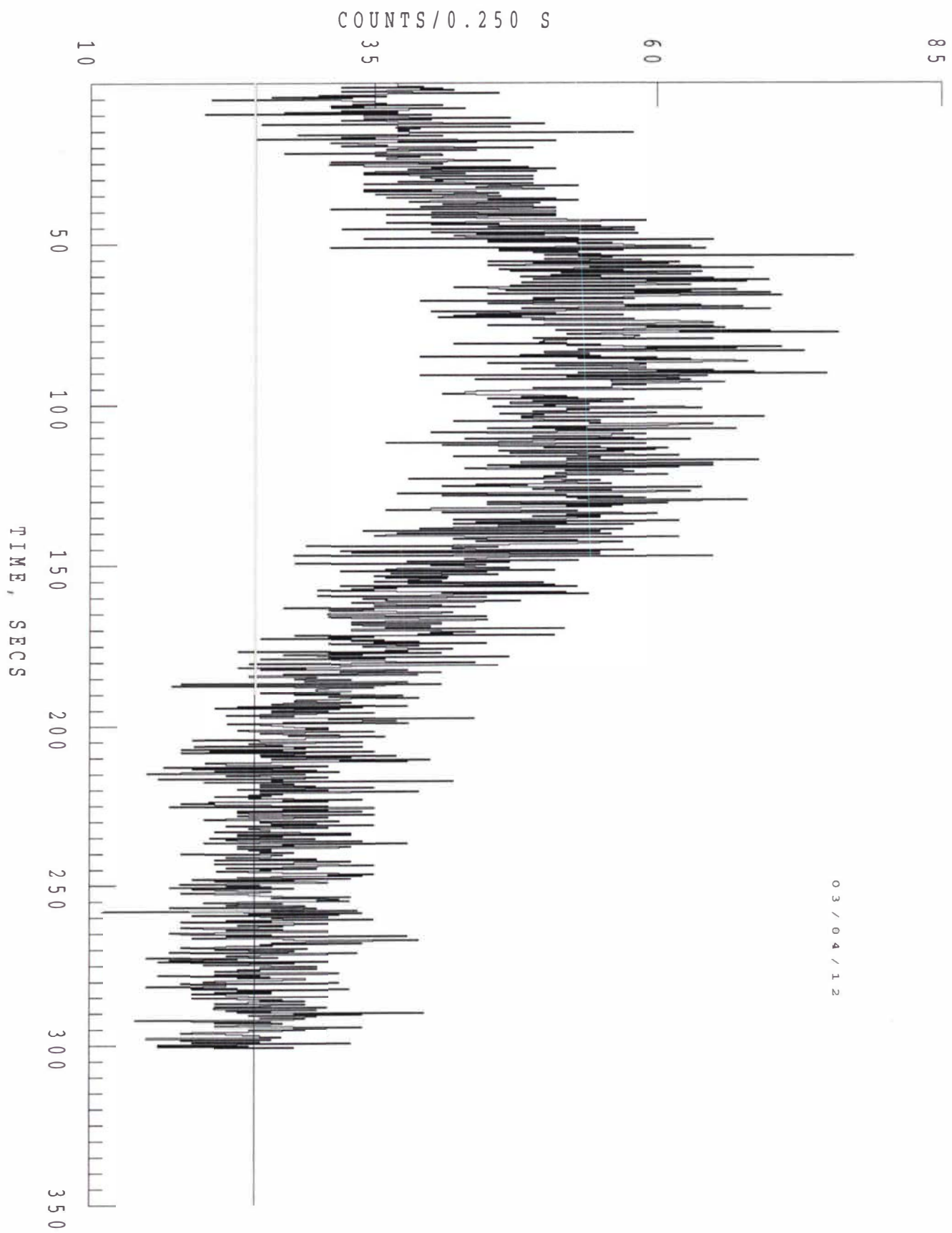


A

HESSI

02/04/12 57689.000 (GLAST_20120402_57840)

25- 150 keV

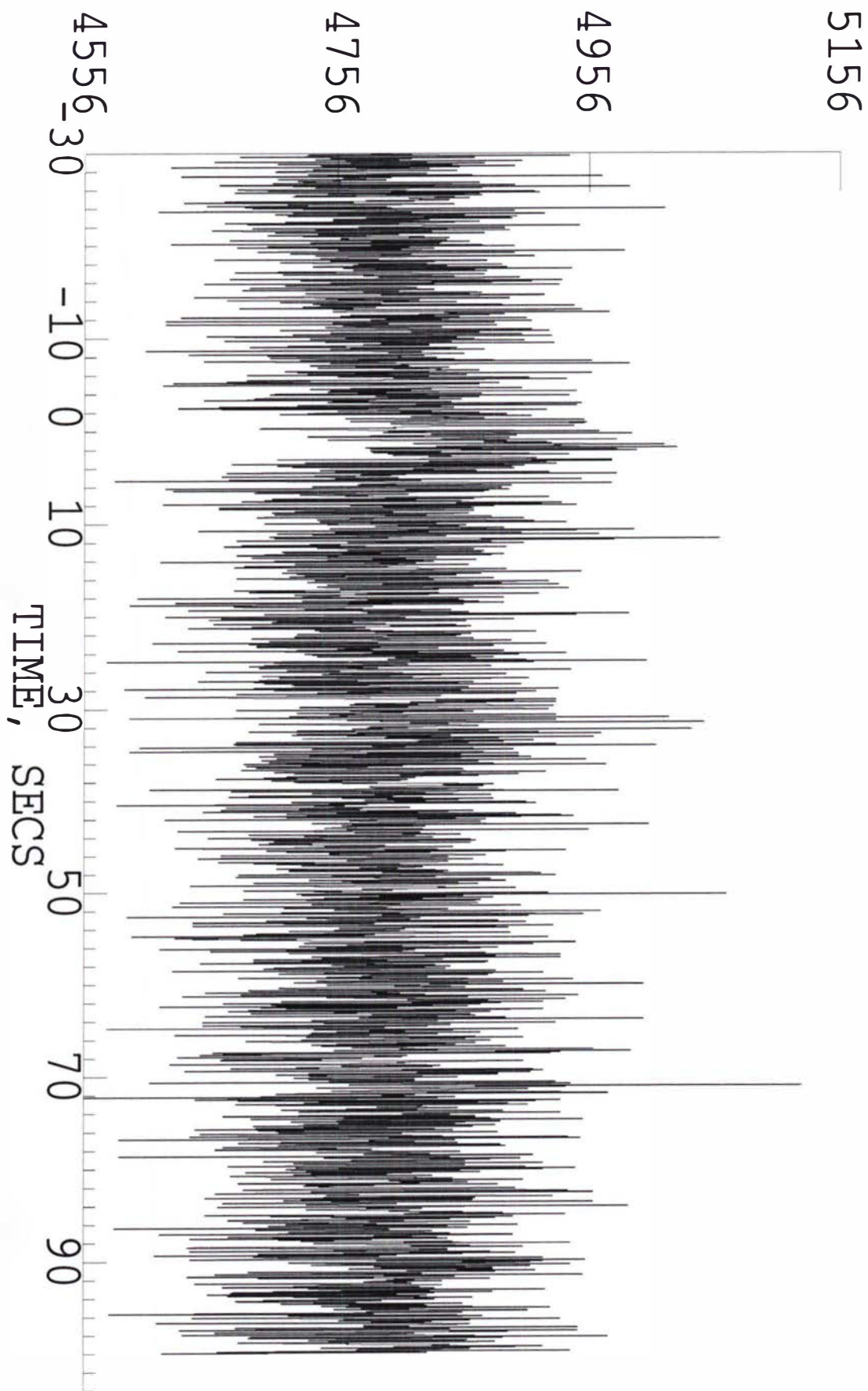


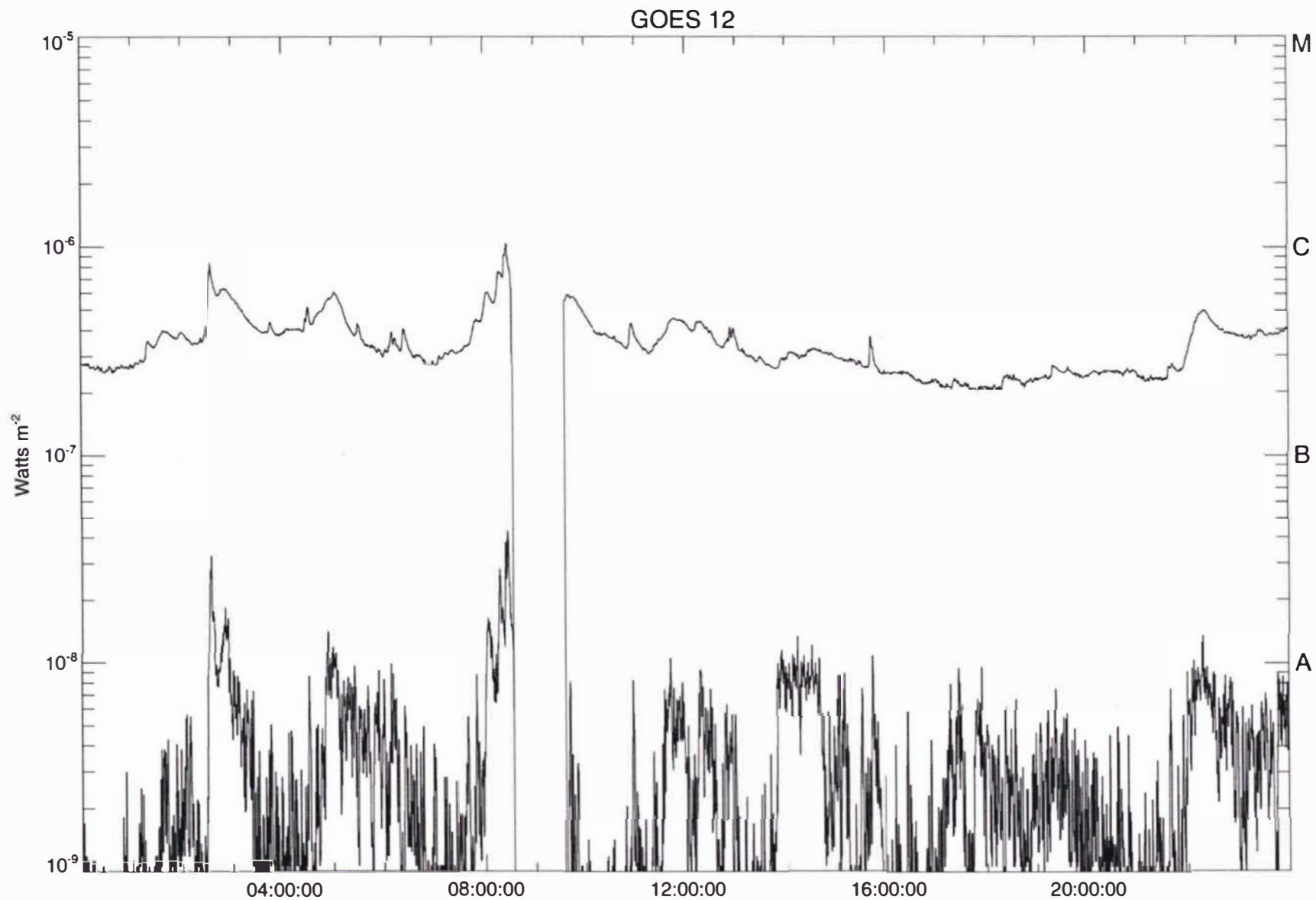
INTEGRAL 02/04/12 57840.018 16:04:00.0

A

100-10000 keV

COUNTS/ .050 S





Data Start: 12/04/02, 0000:09

Plot created: 12/04/05, 0842

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

A

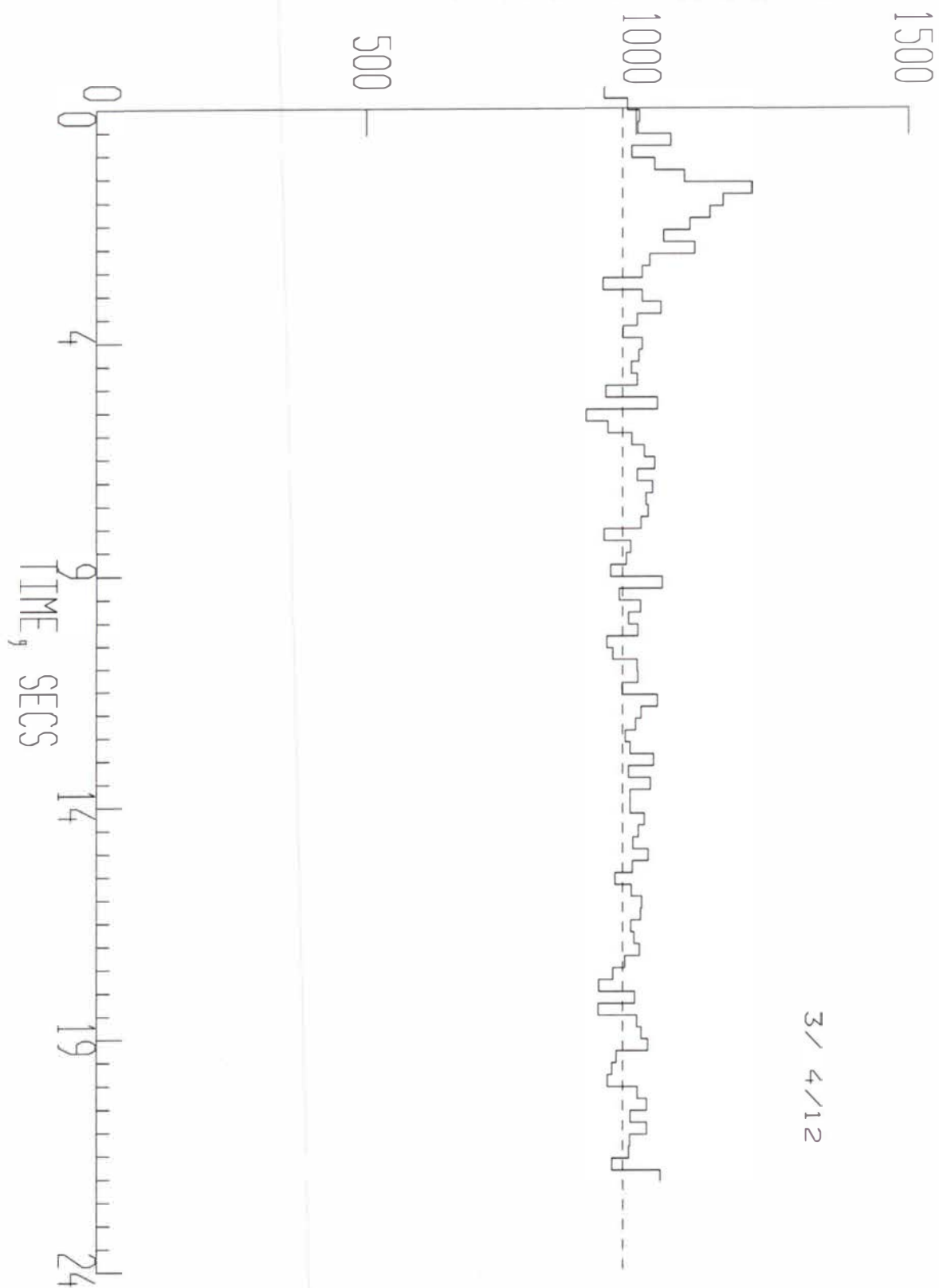
From vxw@capella2.gsfc.nasa.gov Mon Apr 2 18:18:01 2012
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.142
X-Barracuda-Apparent-Source-IP: 128.183.96.236
X-Barracuda-RBL-IP: 128.183.96.236
Date: Mon, 2 Apr 2012 21:17:59 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 7e668d8adb4cee12b2911e017de82ccadde70db0
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Tue 03 Apr 12 01:17:25 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 519211, Seg Num: 0
GRB_RA: 42.459d {+02h 49m 50s} (J2000),
42.655d {+02h 50m 37s} (current),
41.660d {+02h 46m 38s} (1950)
GRB_DEC: +40.466d {+40d 27' 57"} (J2000),
+40.516d {+40d 30' 58"} (current),
+40.259d {+40d 15' 33"} (1950)
GRB_DATE: 16020 TJD; 94 DOY; 12/04/03
GRB_TIME: 3923.58 SOD {01:05:23.58} UT
TRIGGER_INDEX: 146
GRB_PHI: -48.72 [deg]
GRB_THETA: 33.29 [deg]
DELTA_TIME: -43.00 [sec]
TRIGGER_DUR: 1.024 [sec]
COLN_STATUS: 0x3
RATE_SIGNIF: 9.38 [sigma]
IMAGE_SIGNIF: 7.42 [sigma]
LC_URL: sw00519211000msb.lc
SUN_POSTN: 12.60d {+00h 50m 25s} +5.40d {+05d 24' 10"}
SUN_DIST: 44.25 [deg] Sun_angle= -2.0 [hr] (East of Sun)
MOON_POSTN: 143.46d {+09h 33m 51s} +9.24d {+09d 14' 09"}
MOON_DIST: 92.09 [deg]
MOON_ILLUM: 82 [%]
GAL_COORDS: 146.07, -17.03 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 52.42, 23.03 [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 = 258.44,20.49 [deg]

7000
2.4 x 10⁻⁷ erg/cm²
1.25 s
10⁻⁷ erg/cm²
1.1 phot/cm²s

SWIFT 03/04/12 3923.588
25- 100 keV

COUNTS/0.256 S



MS01

03/04/12

2603.892

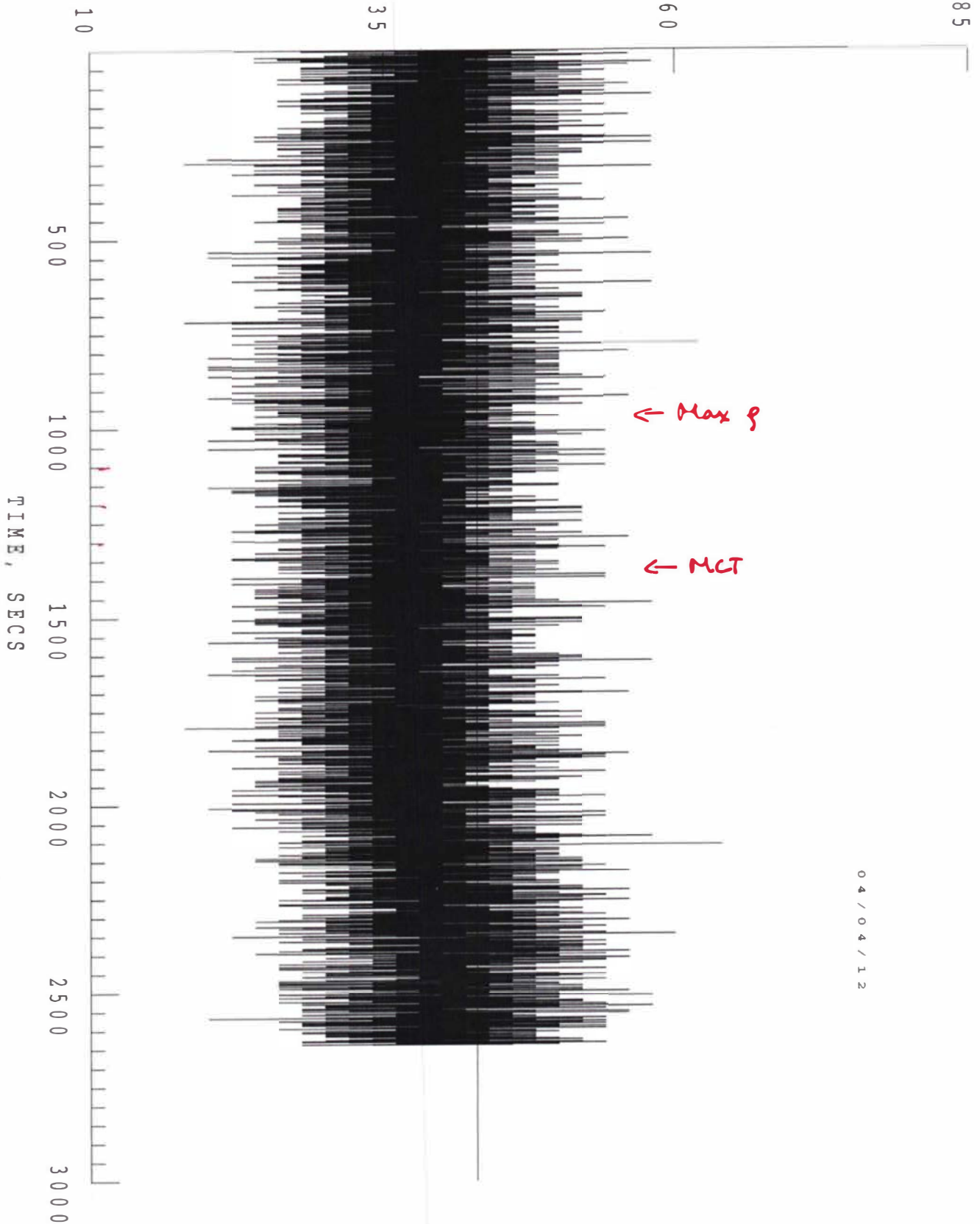
A

50 - 3000 keV

$\angle \text{GRB}/O/M = 61^\circ$

Prob. occulted

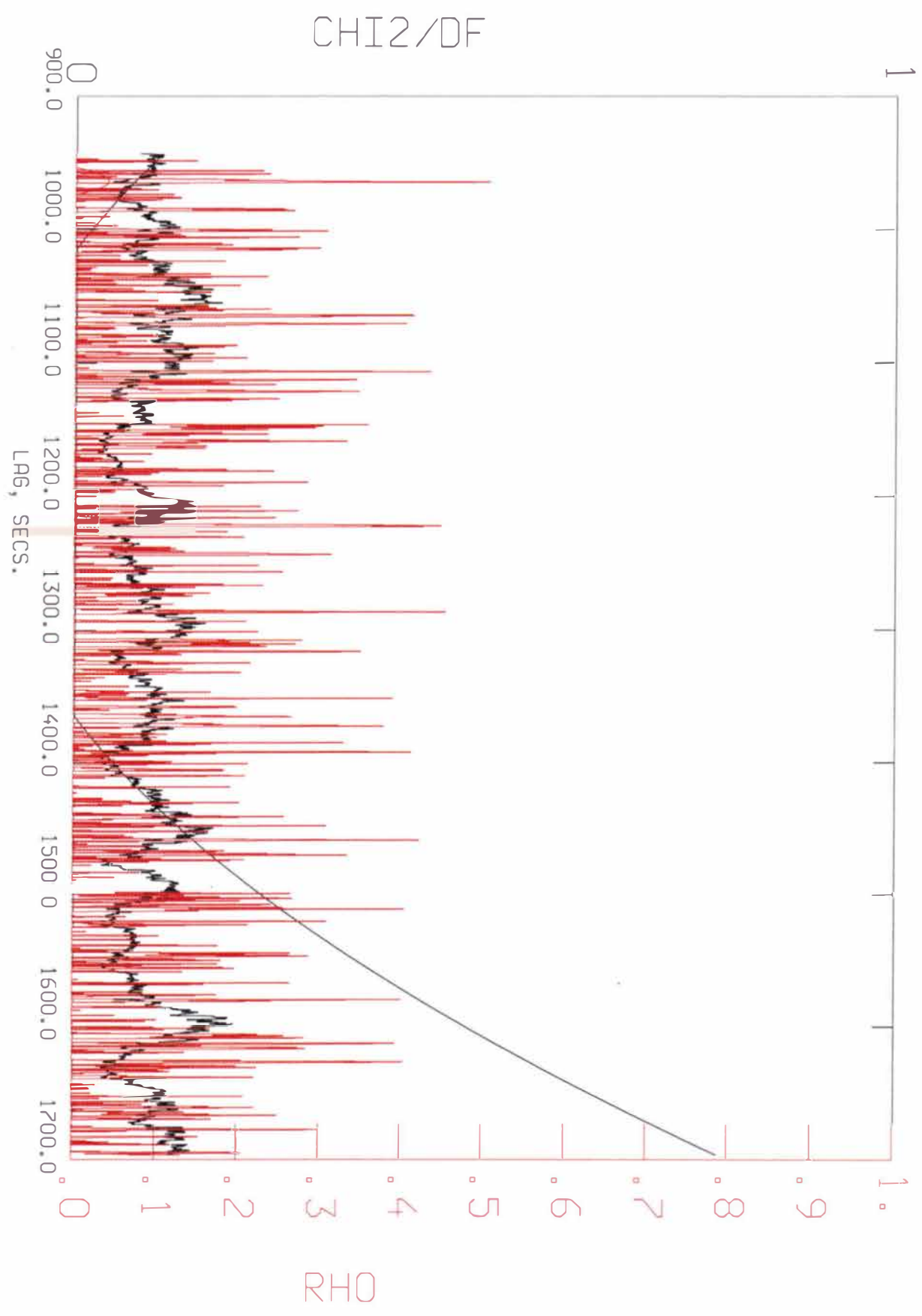
COUNTS/0.250 S



A

SWIFT/BAT -MS01 HEND CORRELATION 03/04/12 3923.588

13/ 7/12



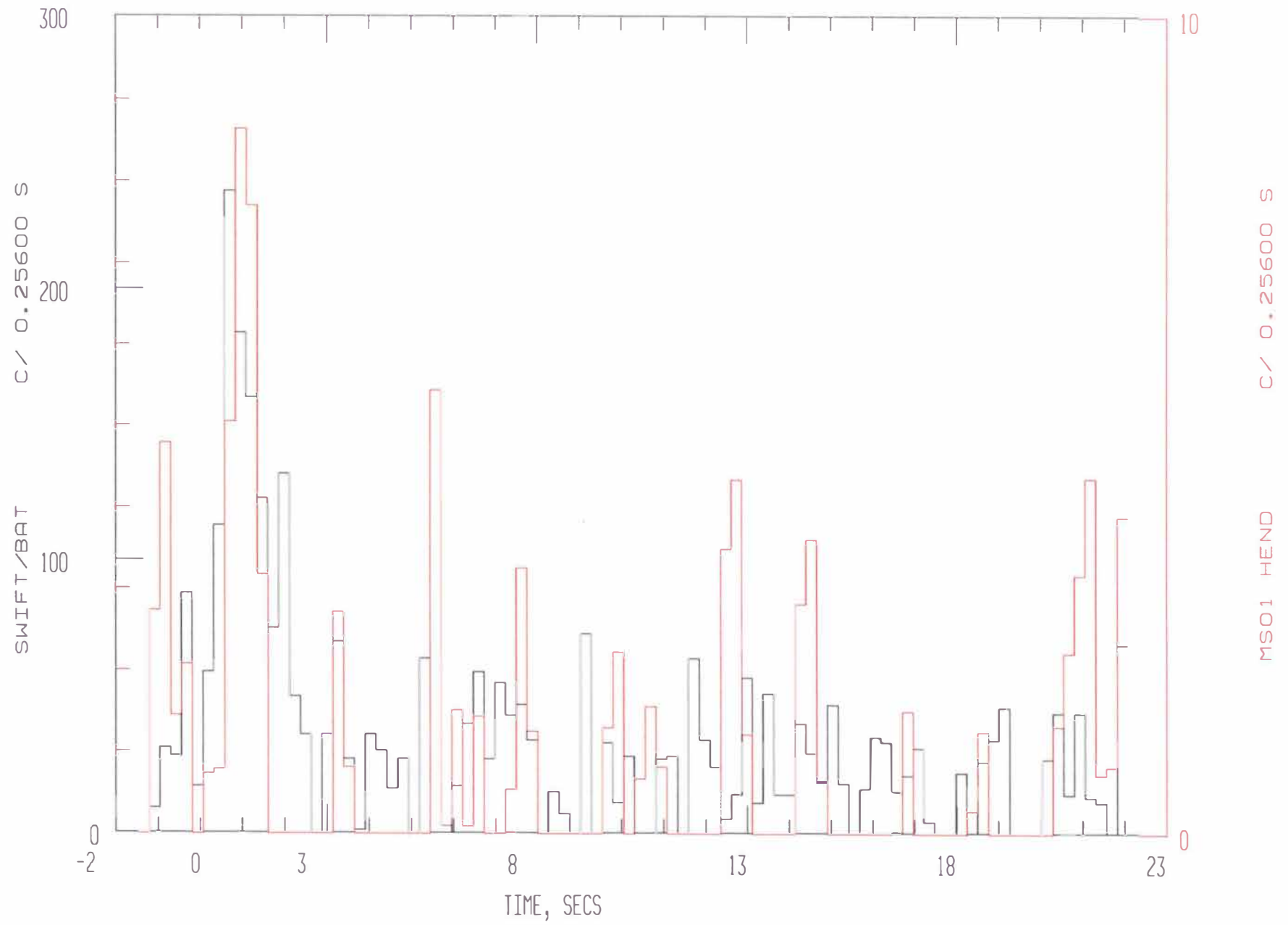
A

SWIFT/BAT -MS01 HEND CORRELATION

03/04/12

3923.588

13/ 7/12



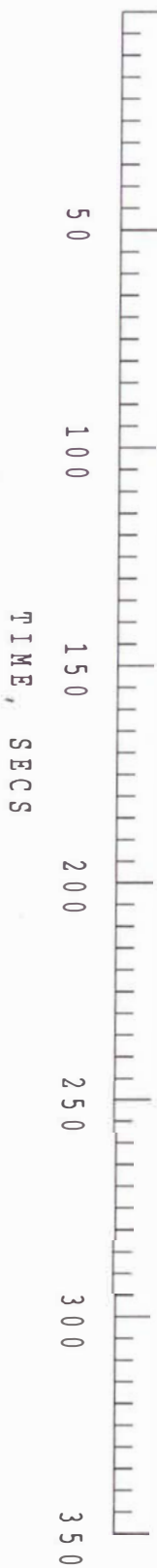
HESSI

03/04/12 3773.000 (SWIFT_20120403_03923)

A

25- 150 keV

COUNTS/0.250 S



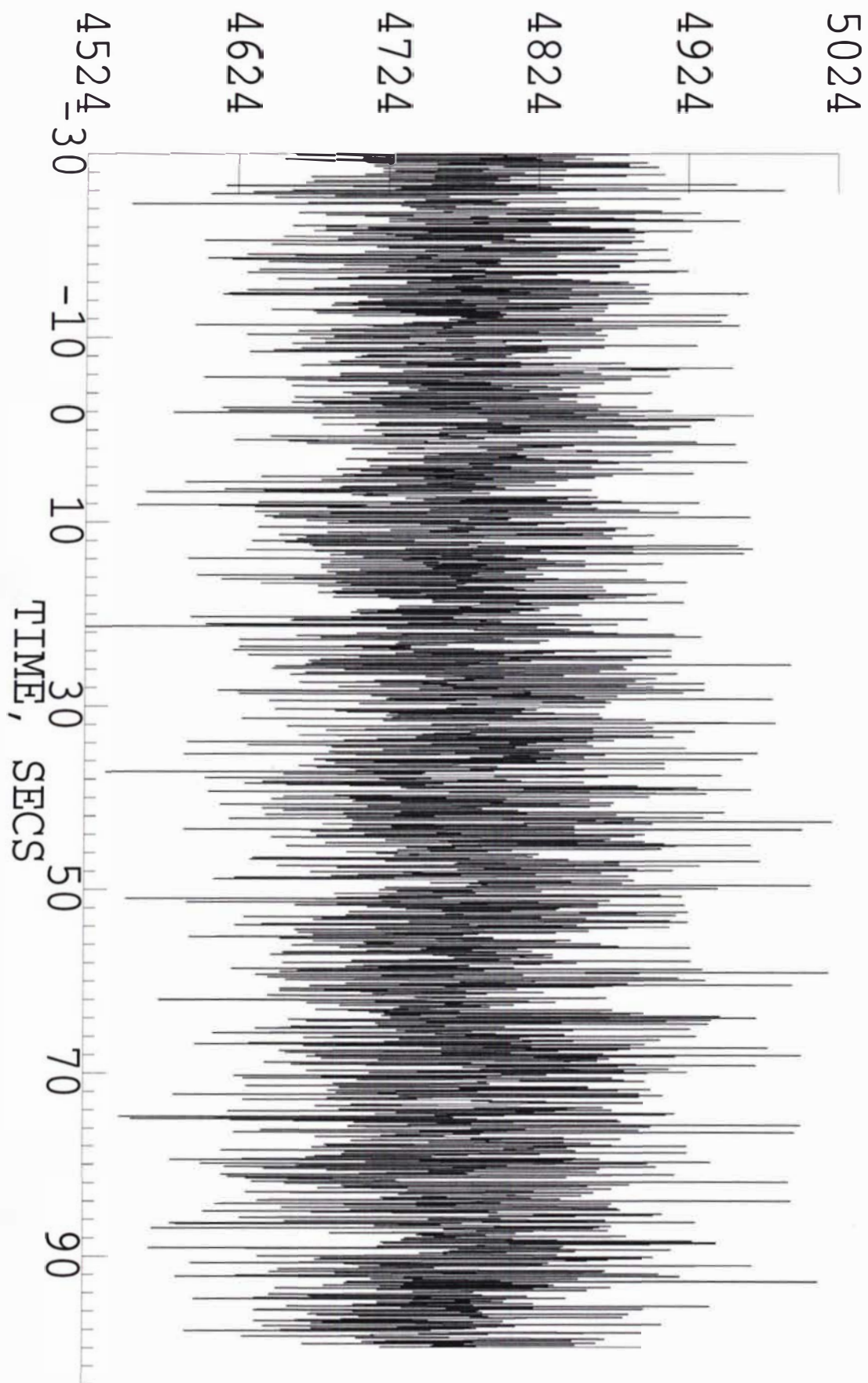
03/04/12

INTEGRAL 03/04/12 3923.592 01:05:23.5

A

100-10000 keV

COUNTS/ .050 S



From vxw@capella2.gsfc.nasa.gov Tue Apr 3 13:49:40 2012
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
-Barracuda-Apparent-Source-IP: 128.183.96.236
-Barracuda-RBL-IP: 128.183.96.236
Date: Tue, 3 Apr 2012 16:49:39 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: b25804bf4fe06b0d425dfbee8269f54a1481036f
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Tue 03 Apr 12 20:49:01 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 519256, Seg_Num: 0
GRB_RA: 54.809d {+03h 39m 14s} (J2000),
51.782d {+03h 27m 08s} (current),
69.773d {+04h 39m 06s} (1950)
GRB_DEC: -89.037d {-89d 02' 12"} (J2000),
-88.996d {-88d 59' 45"} (current),
-89.171d {-89d 10' 14"} (1950)
GRB_DATE: 16020 TJD; 94 DOY; 12/04/03
GRB_TIME: 74036.48 SOD {20:33:56.48} UT
TRIGGER_INDEX: 473
GRB_PHI: -115.89 [deg]
GRB_THETA: 30.63 [deg]
DELTA_TIME: 25.00 [sec]
RIGGER_DUR: 2.048 [sec]
COLN_STATUS: 0x3
RATE_SIGNIF: 13.00 [sigma]
IMAGE_SIGNIF: 7.17 [sigma]
LC_URL: sw00519256000msb.lc
SUN_POSTN: 13.35d {+00h 53m 23s} +5.71d {+05d 42' 49"}
SUN_DIST: 94.93 [deg] Sun_angle= -2.6 [hr] (East of Sun)
MOON_POSTN: 154.22d {+10h 16m 52s} +5.24d {+05d 14' 17"}
MOON_DIST: 95.45 [deg]
MOON_ILLUM: 88 [%]
GAL_COORDS: 302.21, -27.84 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 271.44, -67.34 [deg] ecliptic lon,lat of the burst (or transient)
COMMENTS: SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS: The next comments were copied from the BAT_POS Notice:
COMMENTS: This is 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 = 16.56,13.21 [deg]

B

7.3s

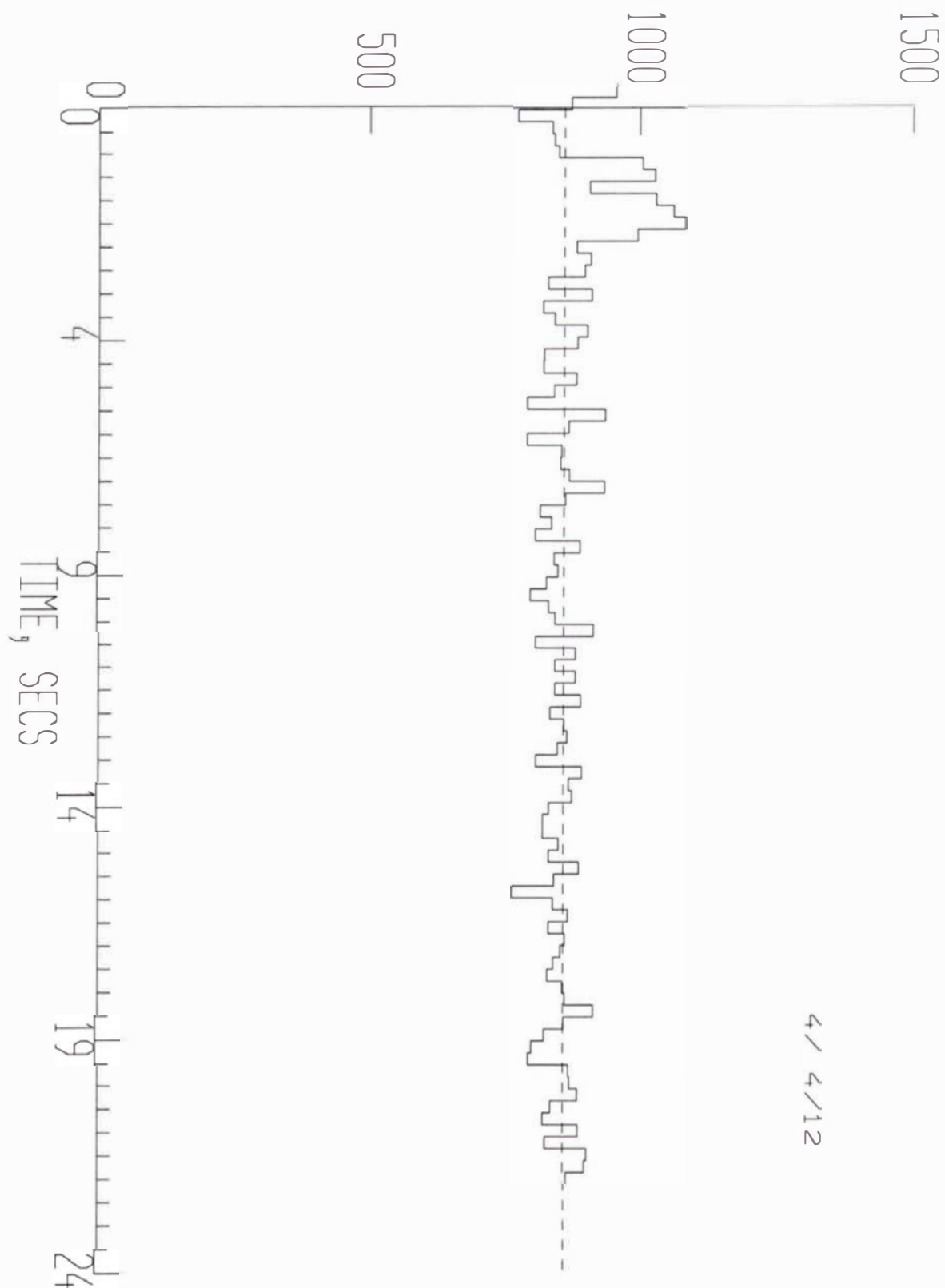
$2.1 \times 10^{-7} \text{ erg cm}^{-2}$

0.9 photon $\text{cm}^{-2} \text{ s}^{-1}$

SWIFT 03/04/12 74036.481

25- 100 keV

COUNTS/0.256 S



4 / 4 / 12

MS01

03/04/12

72682.634

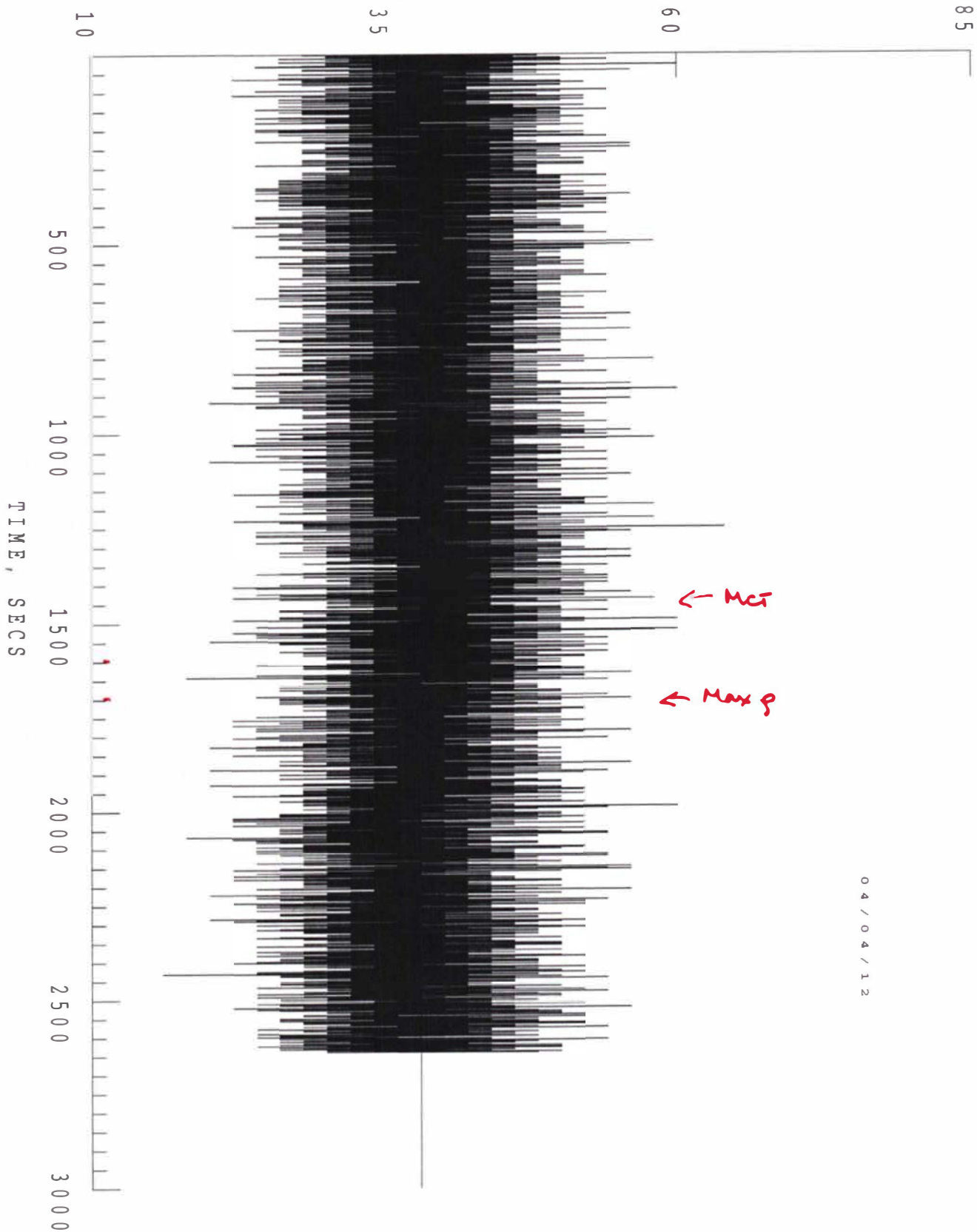
B

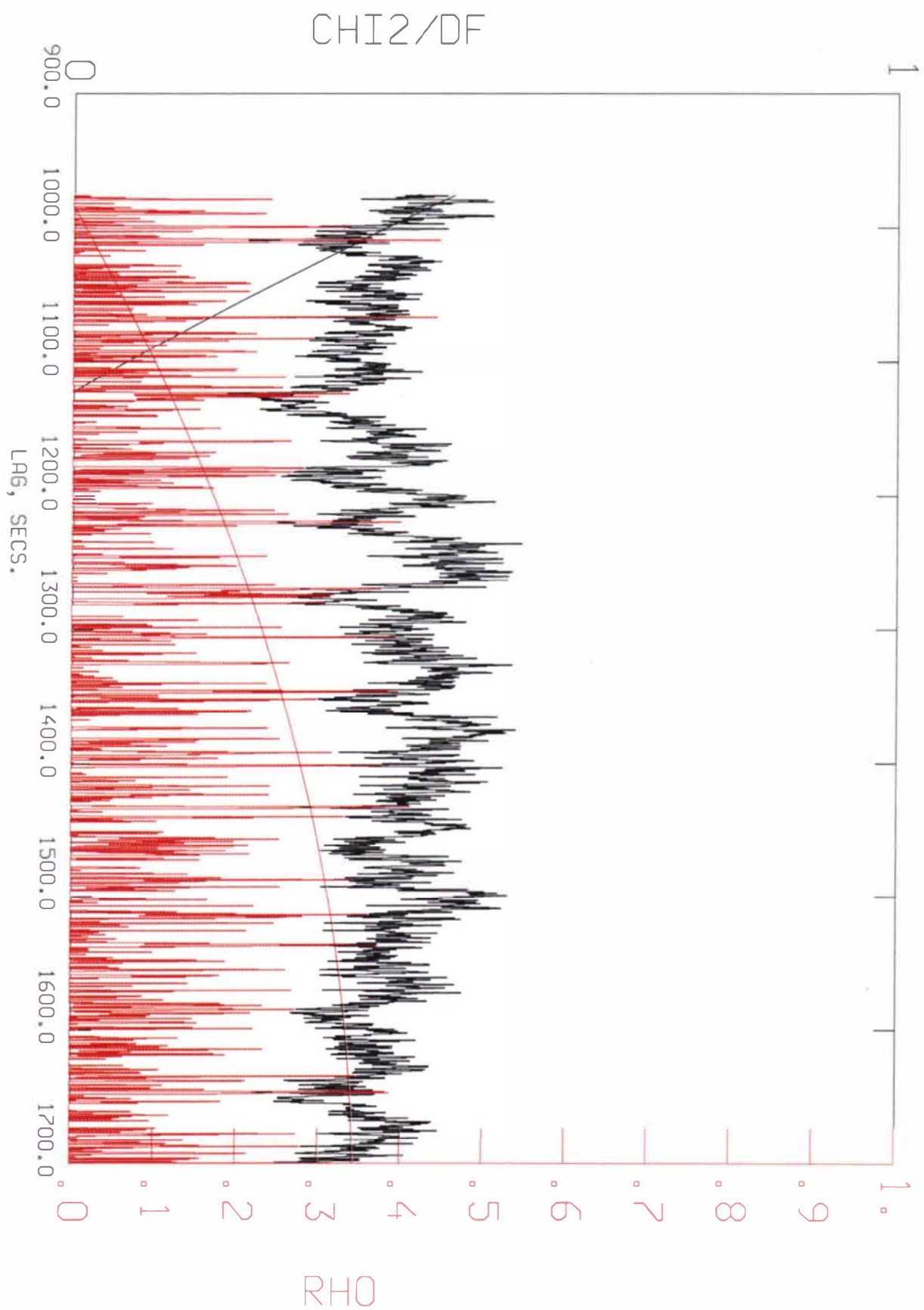
50 - 3000 keV

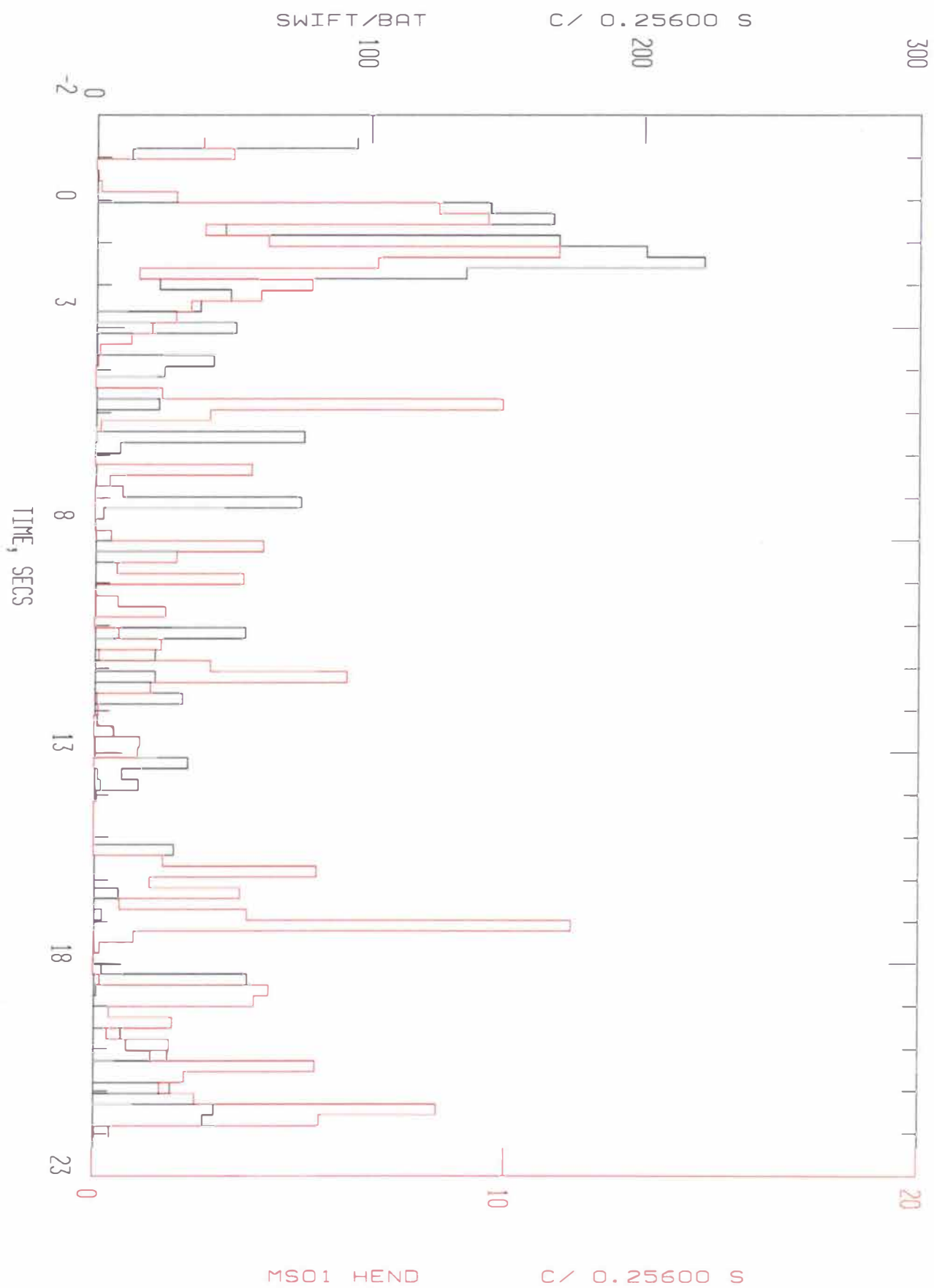
$\angle \text{GRB}/\text{O}/\text{M} = 109^\circ$

Unocculted

COUNTS/0.250 S





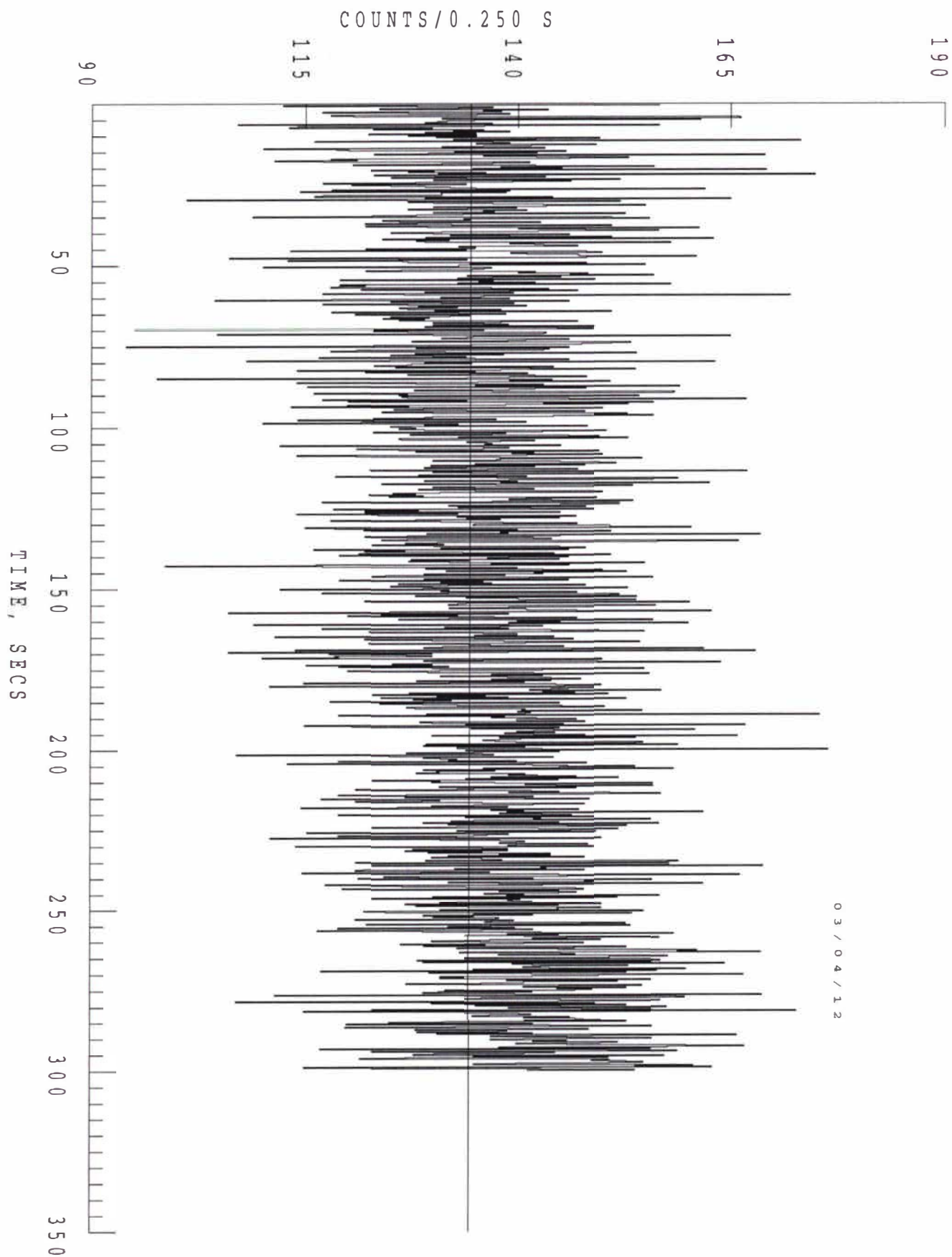


B

HESSI

03/04/12 73886.000 (SWIFT_20120403_74036)

25- 150 keV

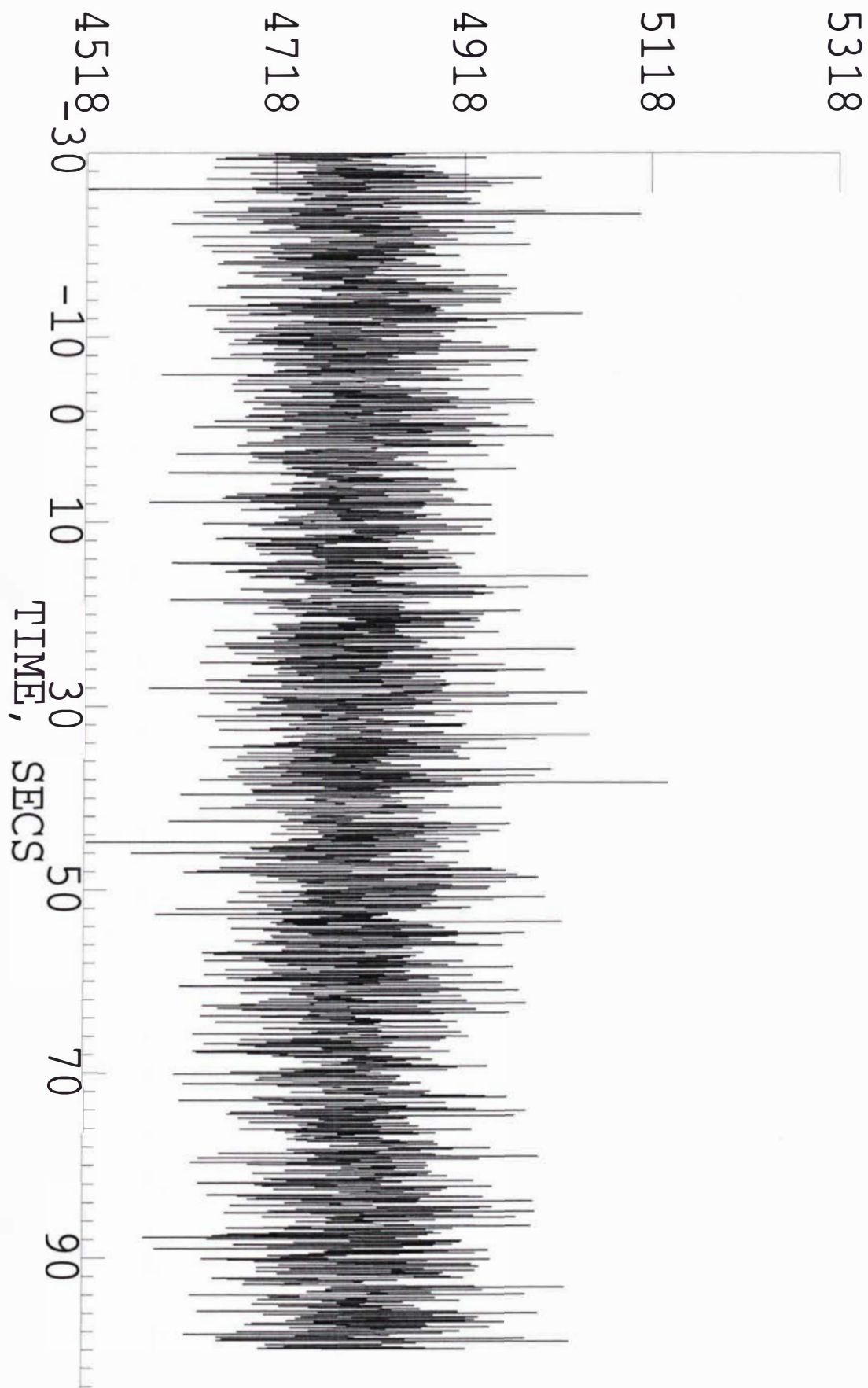


INTEGRAL 03/04/12 74036.493 20:33:56.4

B

100-10000 keV

COUNTS/ .050 S



Subject: [lpn] BAT lightcurve for trigger at 120403_2033

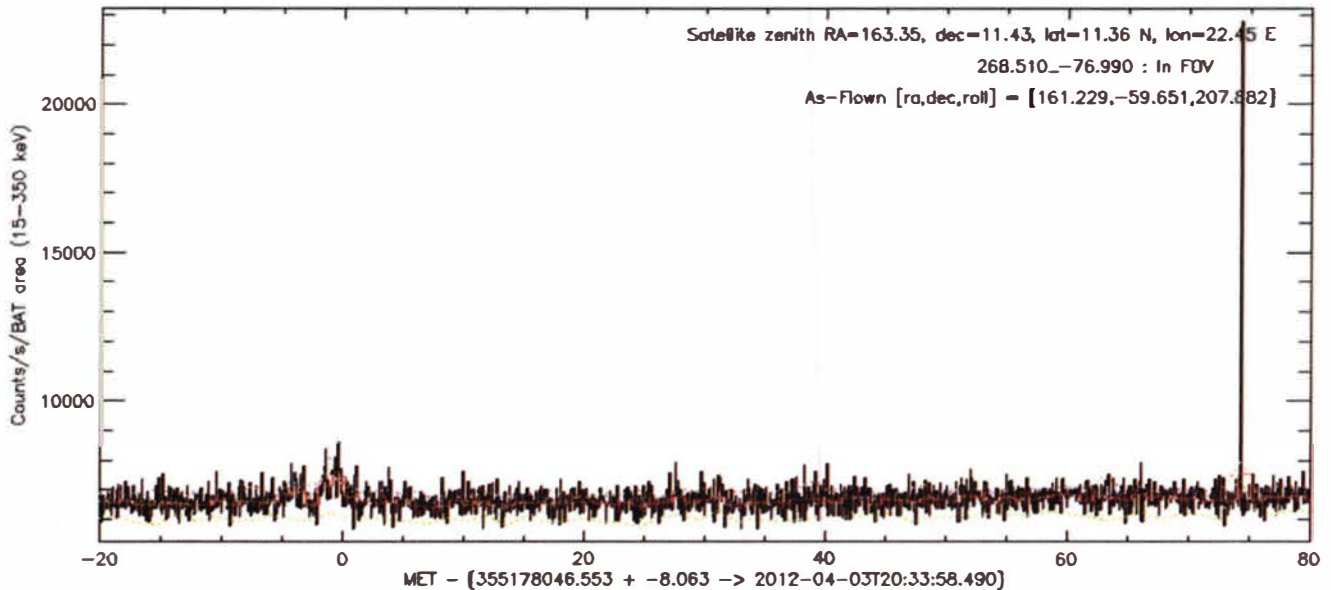
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/3/2012 7:38 PM

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/120403_2033.png



```
% /usr/local/bin/swinfo -o 355178046.553 -s 268.510_-76.990
Time(MET + UTCF -> UT):      355178046.553 + -8.063 -> 2012-04-03T20:33:58.490
Swift Zenith(RA,dec):        163.35, 11.43
Swift Location(lon,lat,alt):  22.45 E, 11.36 N, 570 km
Obs Sequence Number:         00091395001
Obs Target Name:              ETA CAR
Obs Date and Times:           2012-04-03 20:26:53 - 20:44:50
Obs Pointing(ra,dec,roll):    161.229, -59.651, 207.88
268.510_-76.990_imageloc (boresight_dist, angle): (36, -139)
268.510_-76.990_exposure (cm² cos adjusted): 2400
268.510_-76.990_altitude: 9 (depressed but unattenuated)
```

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

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

Attachments:

/tmp/120403_2033.png	11.8 KB
/tmp/120403_2033_bat64ms_ipn	87.1 KB

B

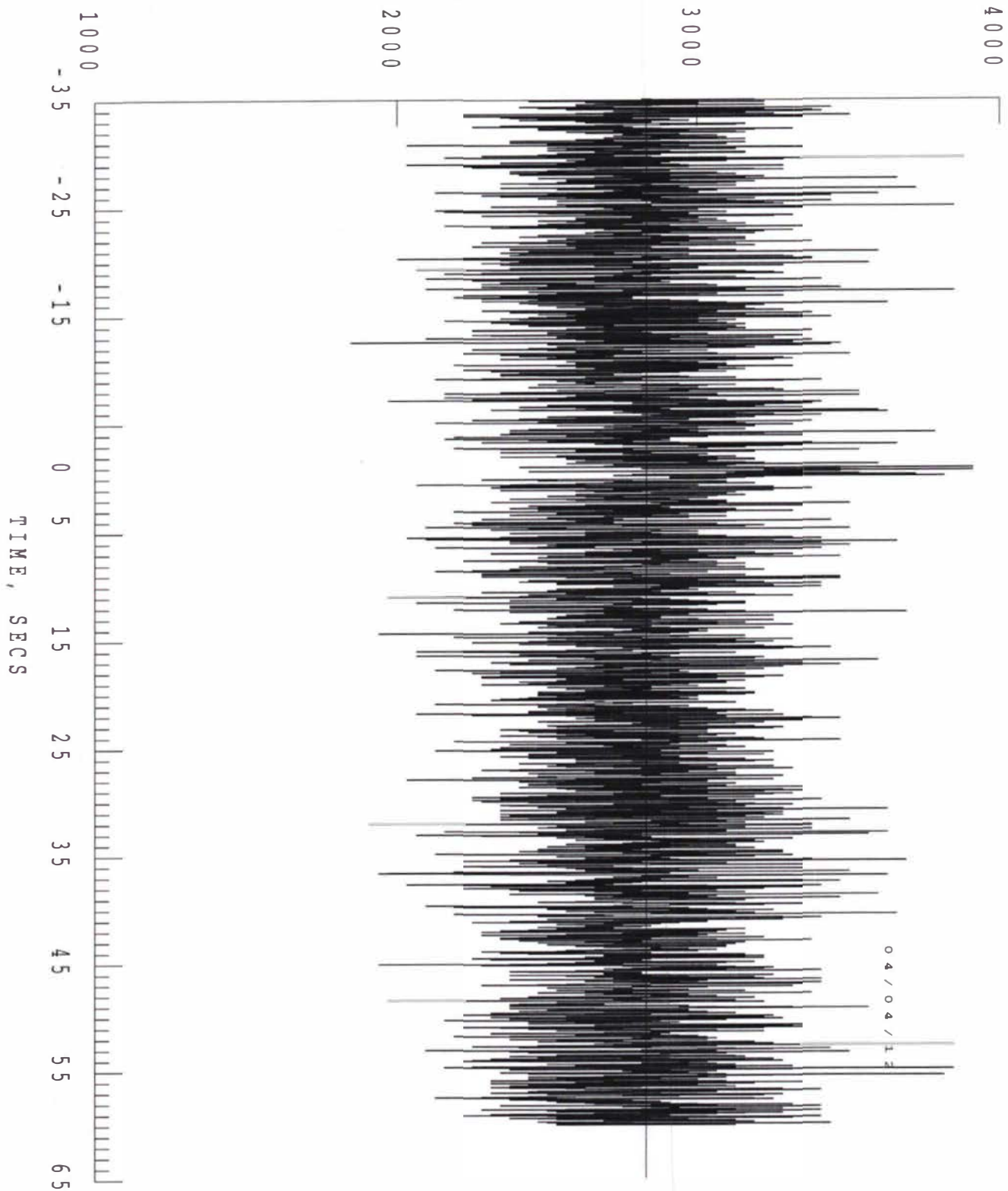
GLAST

03/04/12

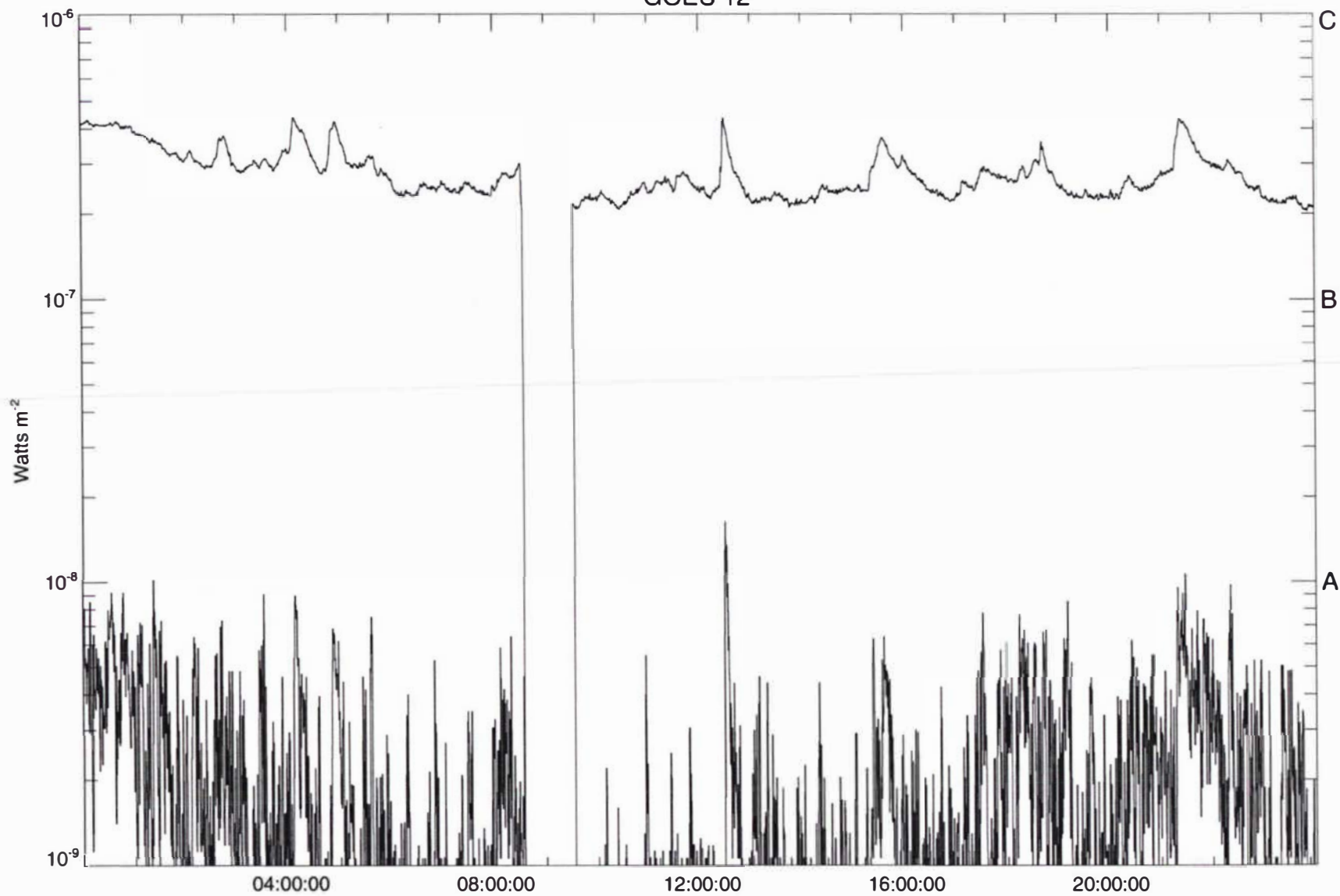
74038.493

26- 293 keV

COUNTS/0.032 S



GOES 12



Data Start: 12/04/03, 0000:10

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 12/04/06, 0839

Sample average = 10

From vxw@capella2.gsfc.nasa.gov Wed Apr 4 05:56:10 2012
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.147
"-Barracuda-Apparent-Source-IP: 128.183.96.236
-Barracuda-RBL-IP: 128.183.96.236
Date: Wed, 4 Apr 2012 08:56:06 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 3fc0016f5109f697994af808c735137e5c6264e8
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Wed 04 Apr 12 12:54:50 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 519380, Seg Num: 0
GRB_RA: 235.012d {+15h 40m 03s} (J2000),
235.156d {+15h 40m 37s} (current),
234.423d {+15h 37m 42s} (1950)
GRB_DEC: +12.882d {+12d 52' 54"} (J2000),
+12.843d {+12d 50' 34"} (current),
+13.043d {+13d 02' 33"} (1950)
GRB_DATE: 16021 TJD; 95 DOY; 12/04/04
GRB_TIME: 46262.39 SOD {12:51:02.39} UT
TRIGGER_INDEX: 298
GRB_PHI: -175.82 [deg]
GRB_THETA: 41.69 [deg]
DELTA_TIME: -5.00 [sec]
TRIGGER_DUR: 4.096 [sec]
COLN_STATUS: 0x3
RATE_SIGNIF: 9.11 [sigma]
IMAGE_SIGNIF: 11.42 [sigma]
LC_URL: sw00519380000msb.lc
SUN_POSTN: 13.96d {+00h 55m 50s} +5.97d {+05d 58' 08"}
SUN_DIST: 134.95 [deg] Sun_angle= 9.3 [hr] (West of Sun)
MOON_POSTN: 163.17d {+10h 52m 41s} +1.72d {+01d 43' 01"}
MOON_DIST: 72.06 [deg]
MOON_ILLUM: 93 [%]
GAL_COORDS: 21.60, 48.15 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 229.05, 31.48 [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 = 189.91,-8.91 [deg]

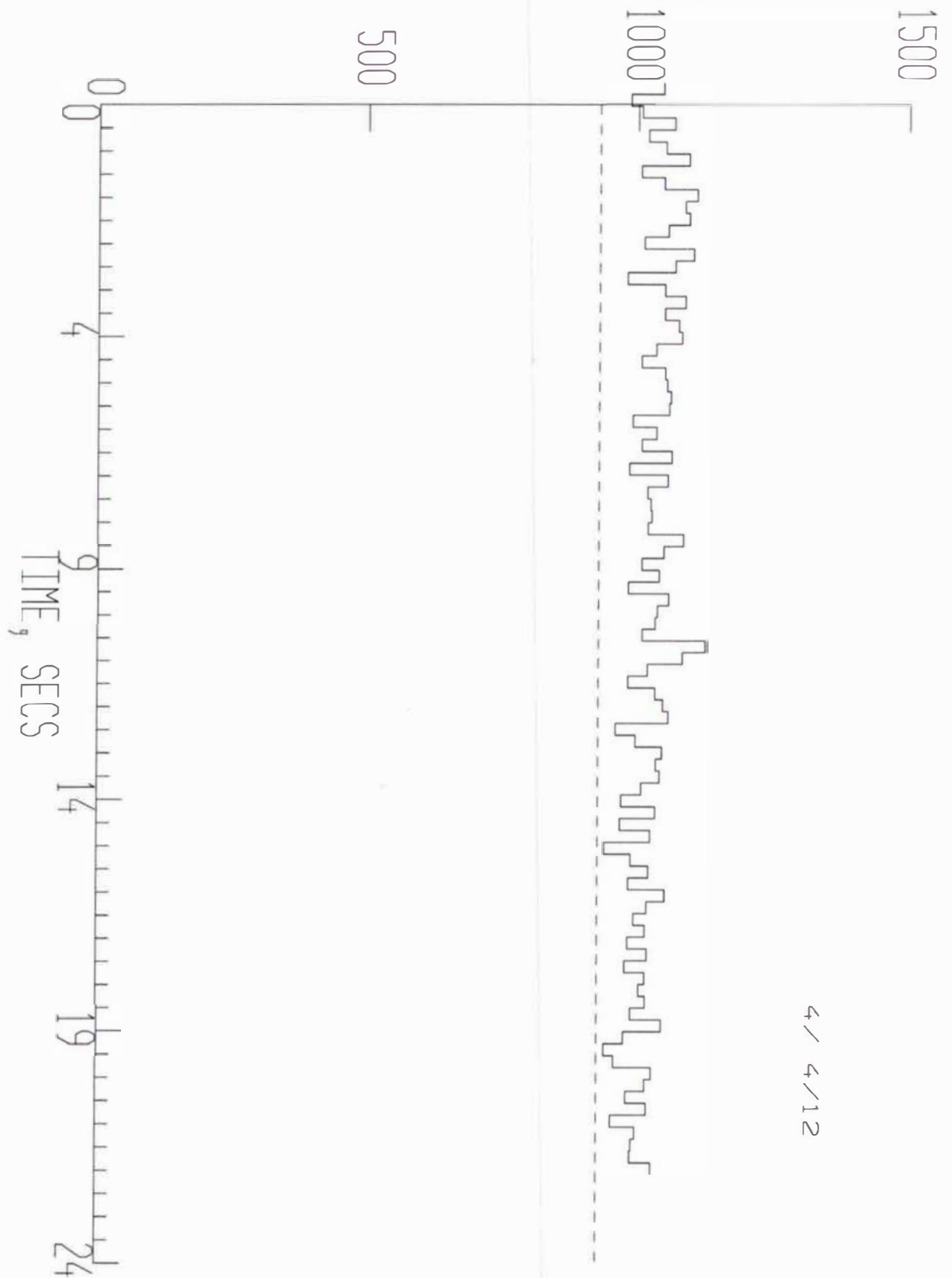
38.7s

$1.6 \times 10^{-6} \text{ erg cm}^{-2}$

1.2 pho_t/cm²s

SWIFT 04/04/12 46262.399
25- 100 keV

COUNTS/0.256 S



4 / 4/12

MS01

04/04/12

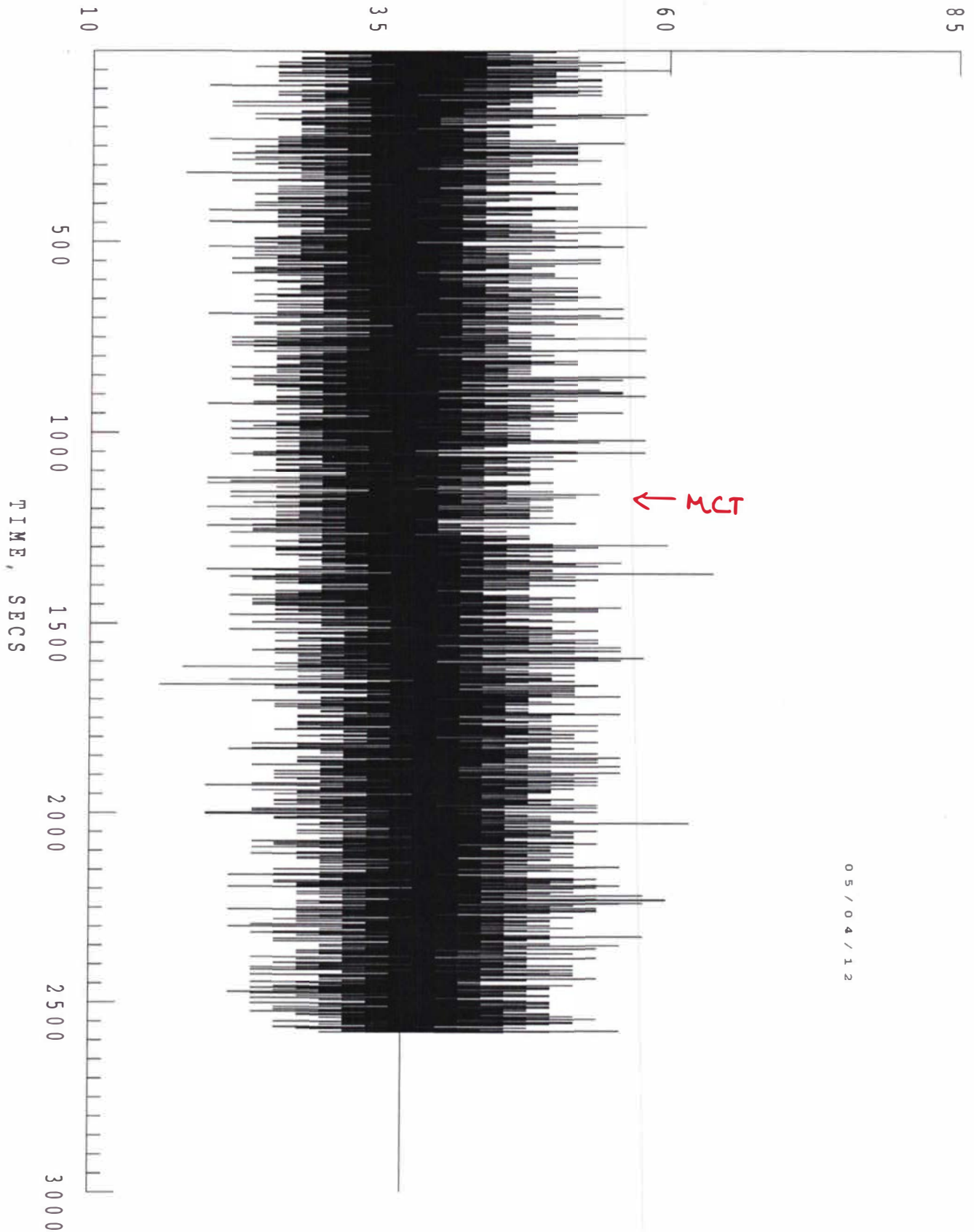
44961.578

50 - 3000 keV

$\angle \text{GRB}/O/M = 97^\circ$

Unocculted

COUNTS/0.250 S



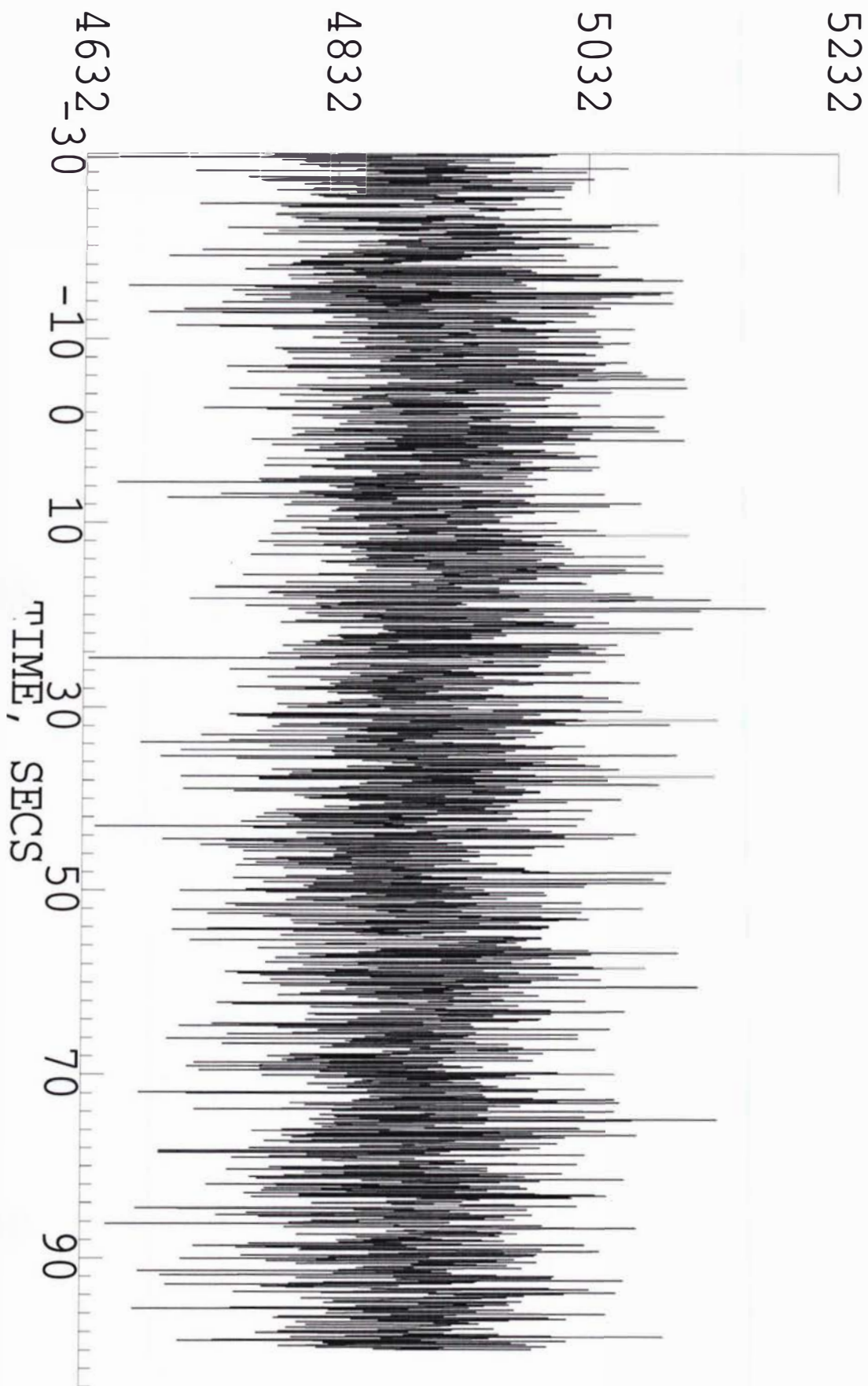
From williams@gammaburst.ssl.berkeley.edu Mon Apr 9 23:10:43 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.142
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Mon, 9 Apr 2012 23:02:00 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for SWIFT 20120404 46262
X-Ucb-Scan-Signature: 9faab3b048c00442b89eff7c4f0621c9b1916da5
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

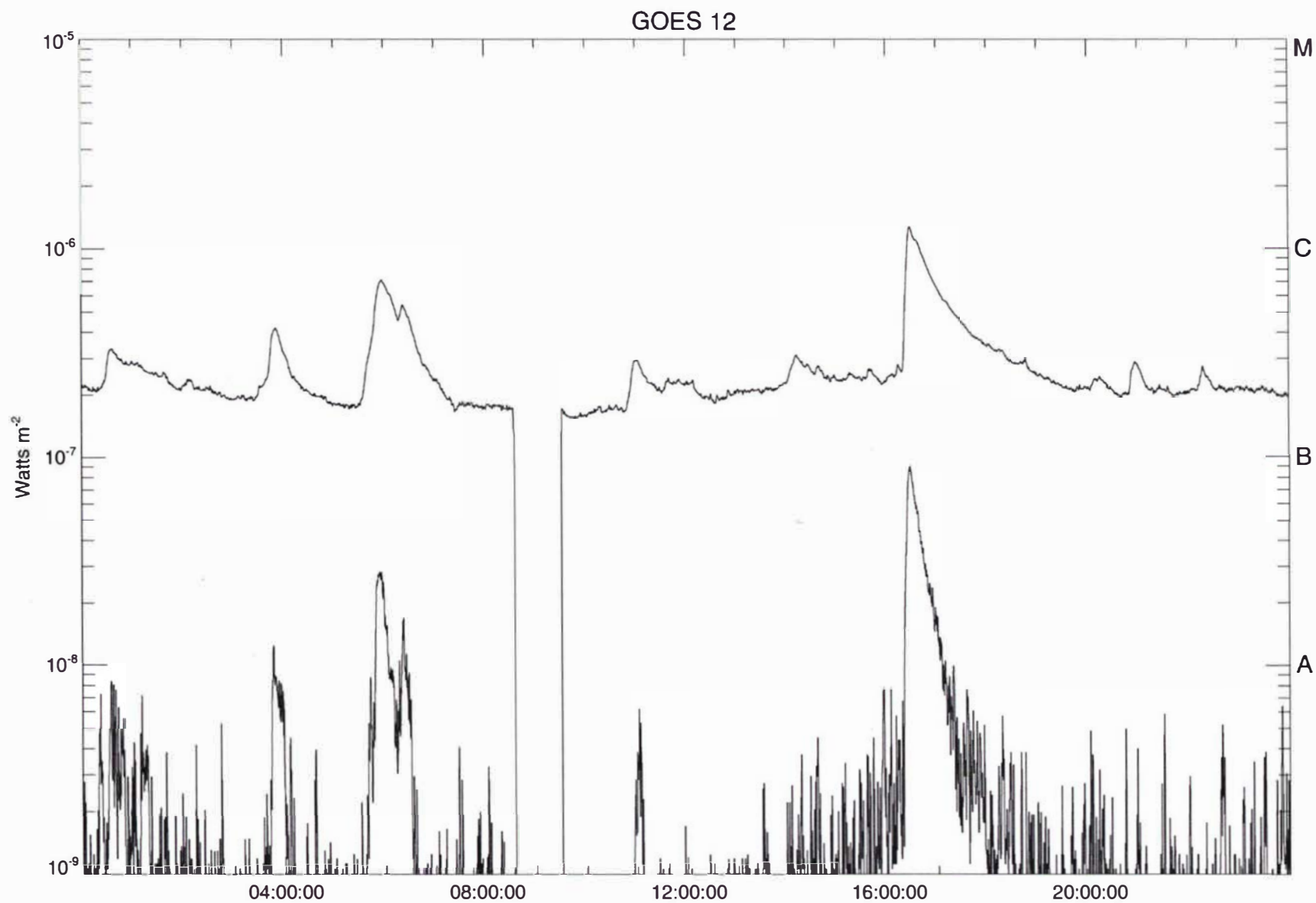
HESSI 25 to 150 keV Counts
Created 9-Apr-2012 23:09:37.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
No Eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

INTEGRAL 04/04/12 46262.389 12:51:02.3

100-10000 keV

COUNTS/ .050 S





Data Start: 12/04/04, 0000:10

Plot created: 12/04/07, 0841

Channel

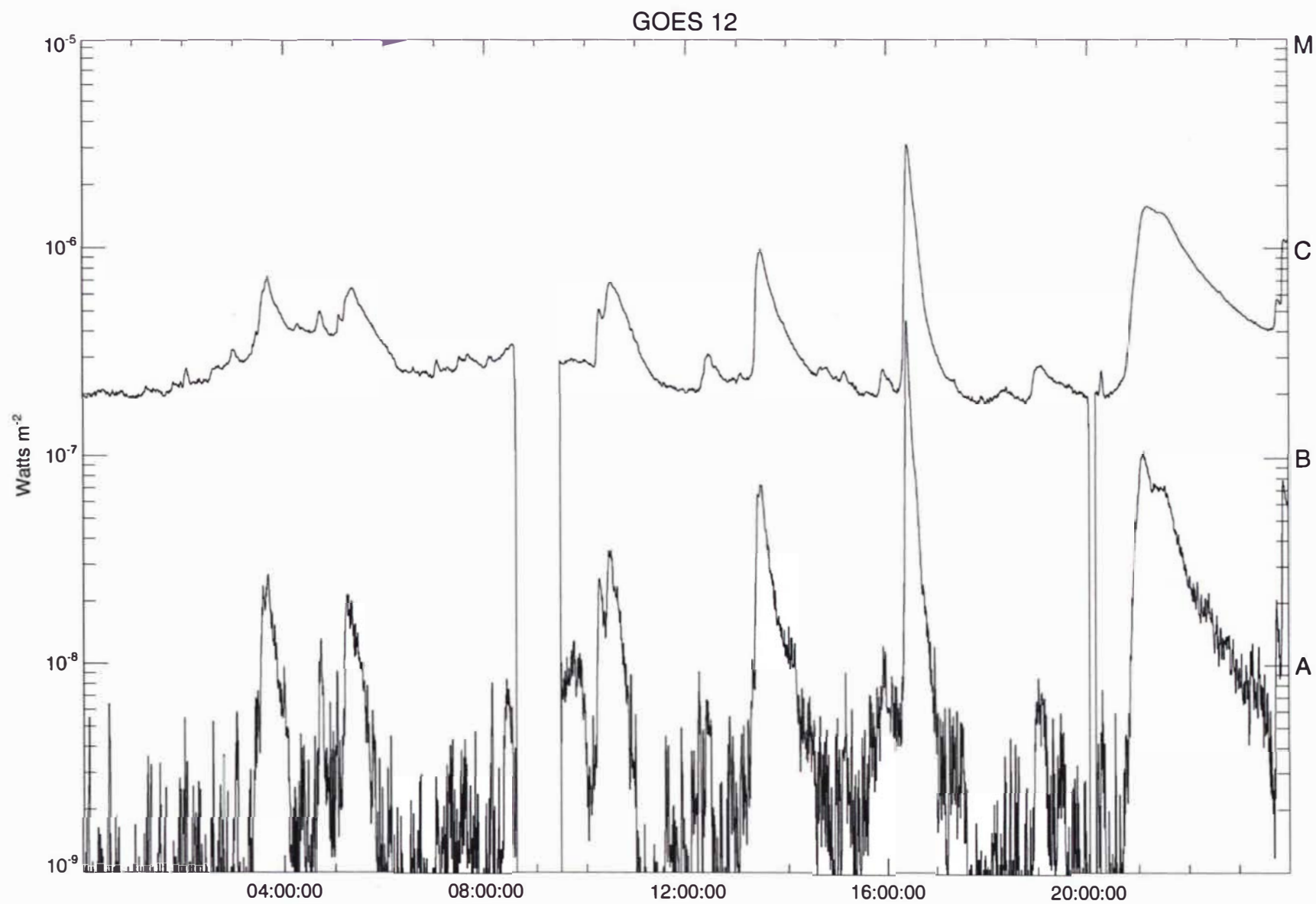
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10



Data Start: 12/04/05, 0000:10

Plot created: 12/04/08, 0841

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 120406_0524

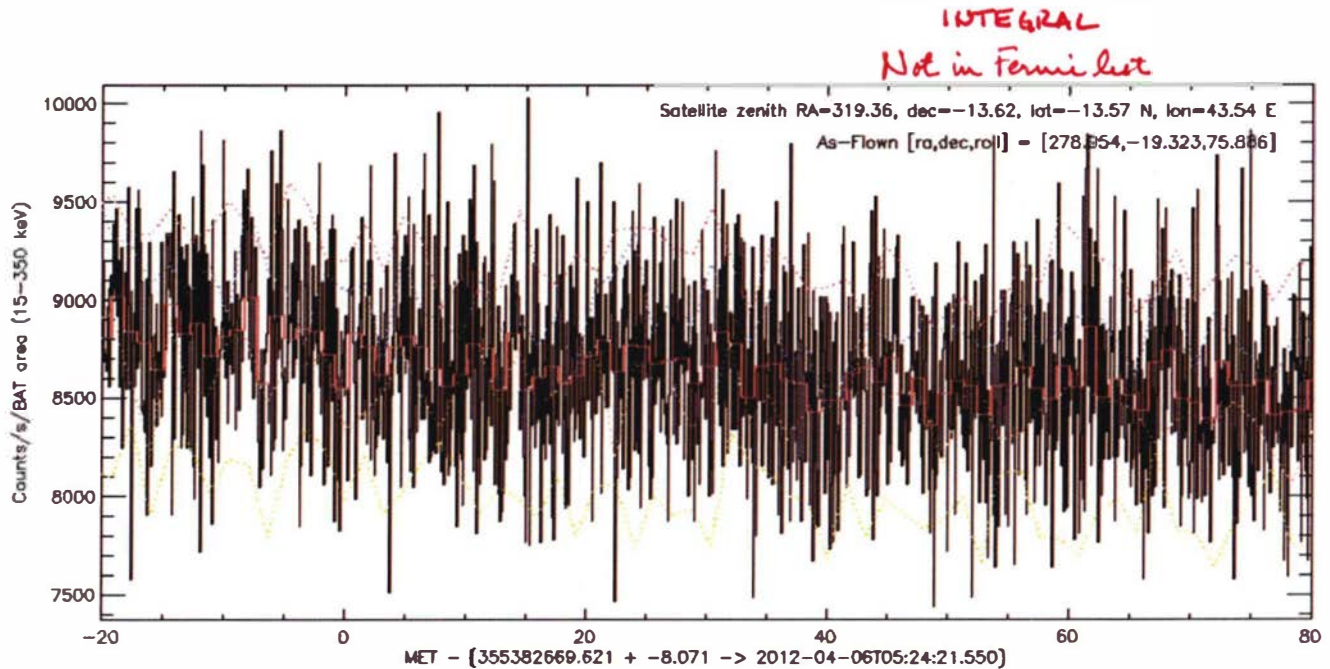
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/6/2012 2:11 AM

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/120406_0524.png



```
% /usr/local/bin/swinfo -o 355382669.621
Time(MET + UTC -> UT): 355382669.621 + -8.071 -> 2012-04-06T05:24:21.550
Swift Zenith(RA,dec): 319.36, -13.62
Swift Location(lon,lat,alt): 43.54 E, -13.57 N, 591 km
Obs Sequence Number: 00032308008
Obs Target Name: MAXI J1836-194
Obs Date and Times: 2012-04-06 05:22:53 - 05:35:50
Obs Pointing(ra,dec,roll): 278.954, -19.323, 75.89
```

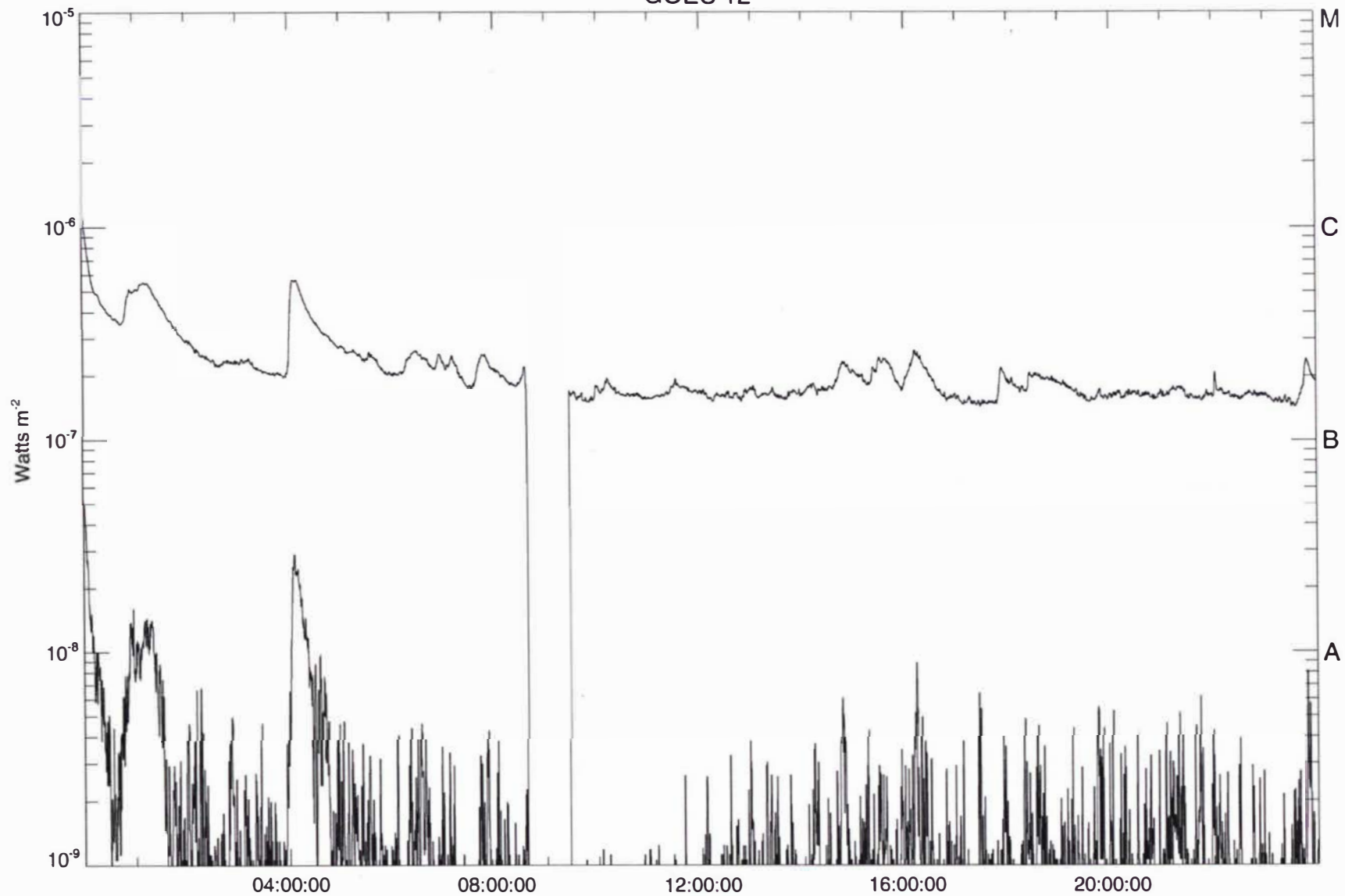
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

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

Attachments:

/tmp/120406_0524.png	25.4 KB
/tmp/120406_0524_bat64ms_ipn	87.0 KB

GOES 12



Data Start: 12/04/06, 0000:10

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 12/04/09, 0841

Sample average = 10

SUZAKU

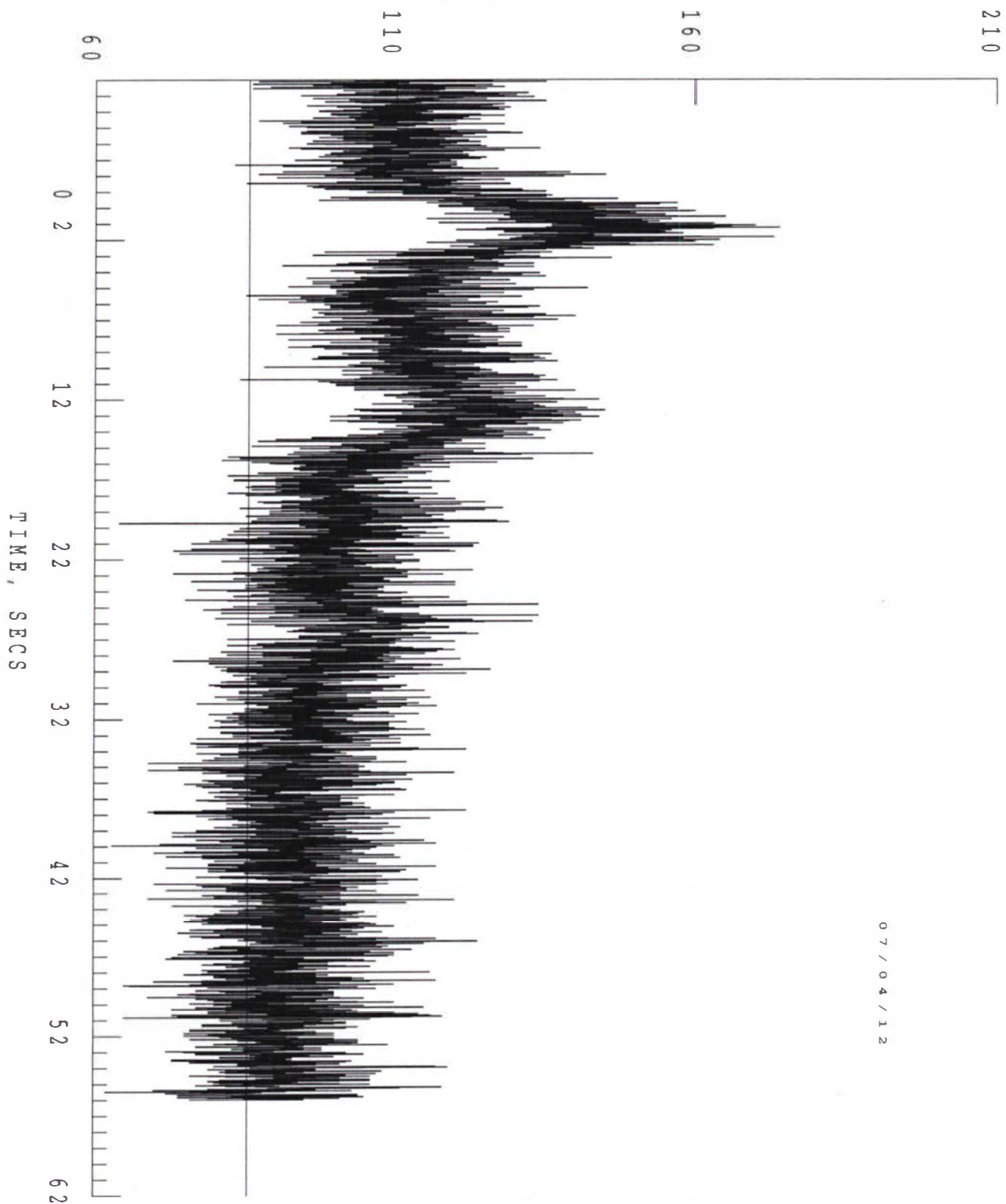
07/04/12

61480.759

Not in Suzaku list

50 - 240 keV

COUNTS/0.016 S



07/04/12

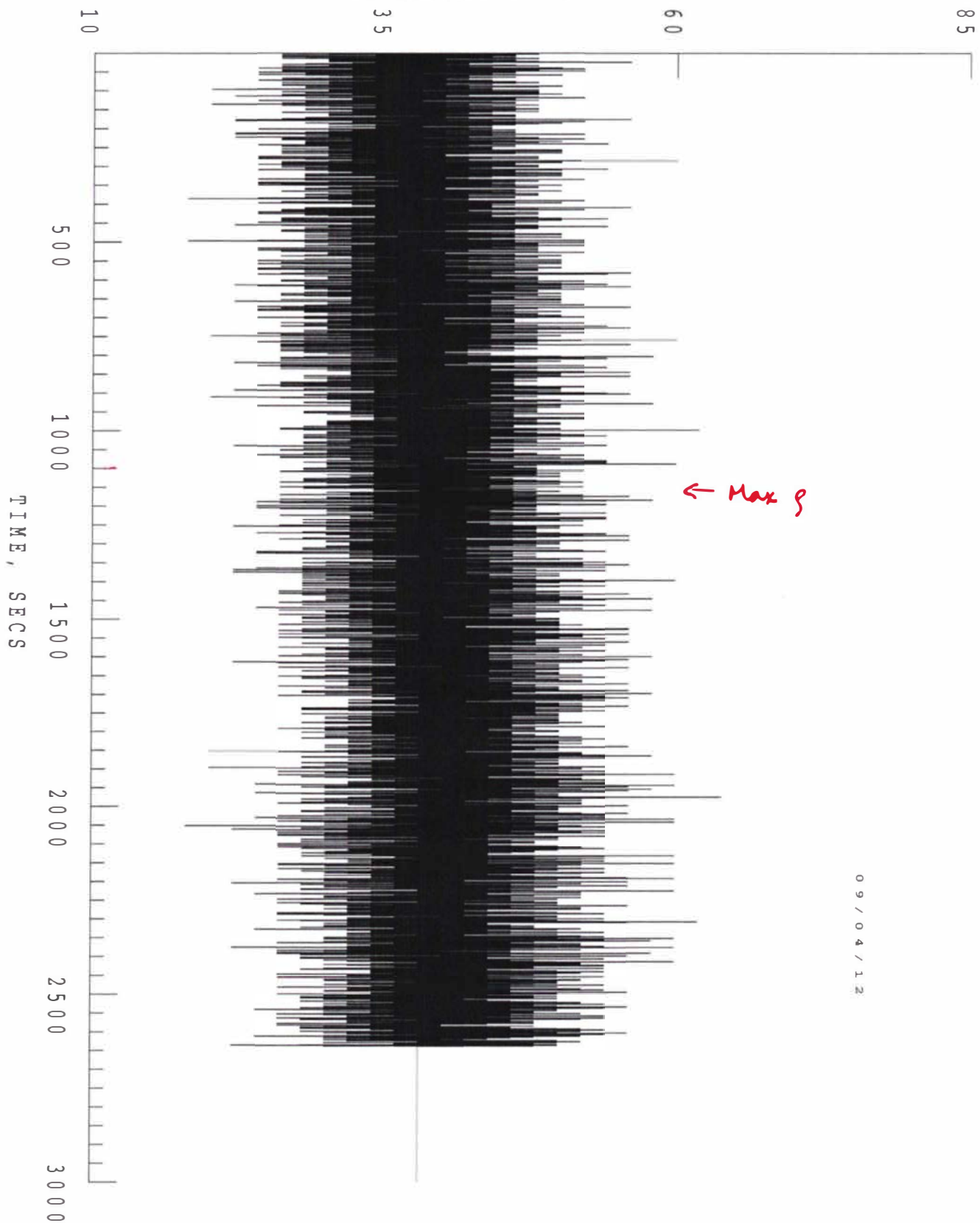
MS01

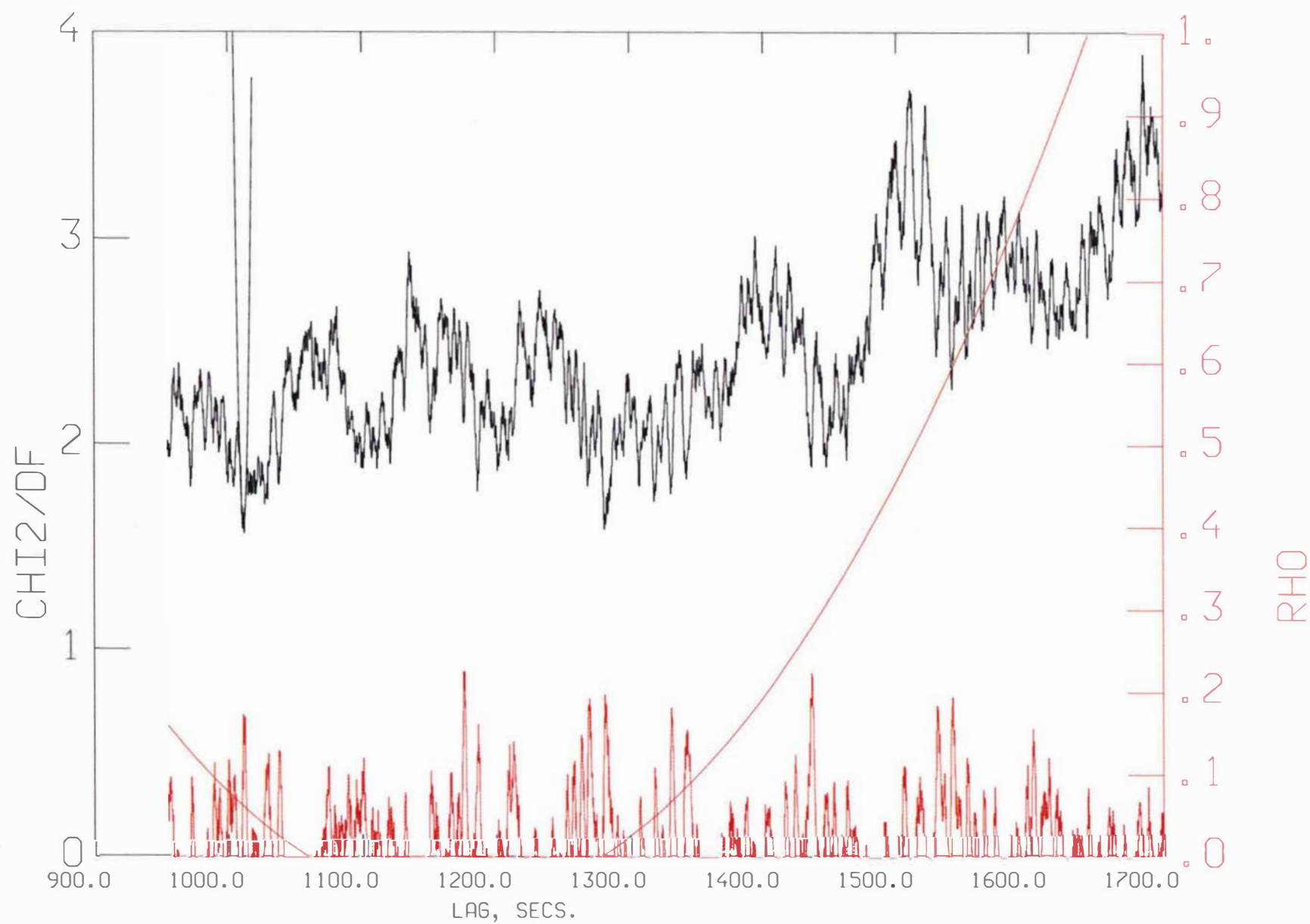
07/04/12

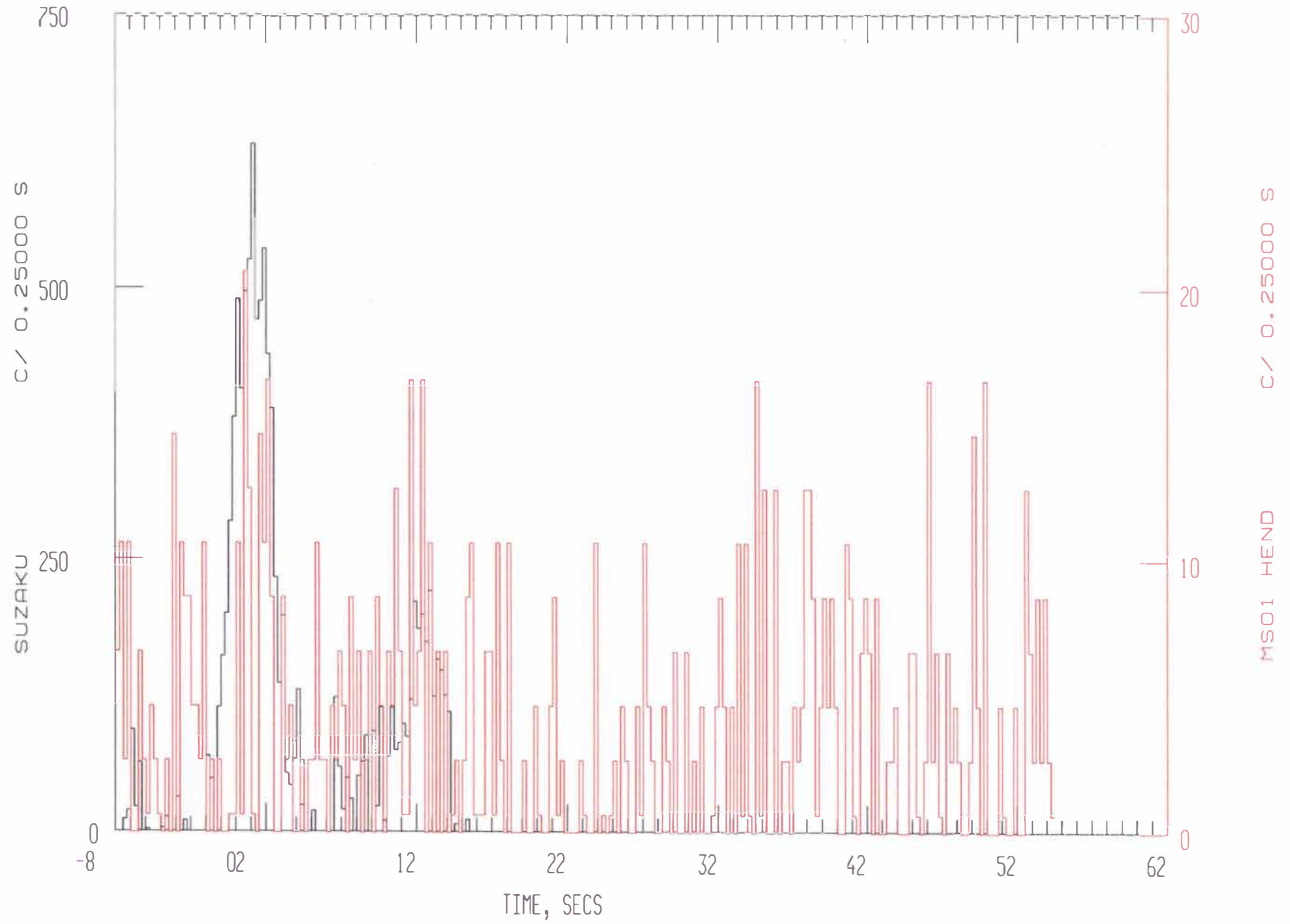
60136.904

50 - 3000 keV

COUNTS/0.250 S





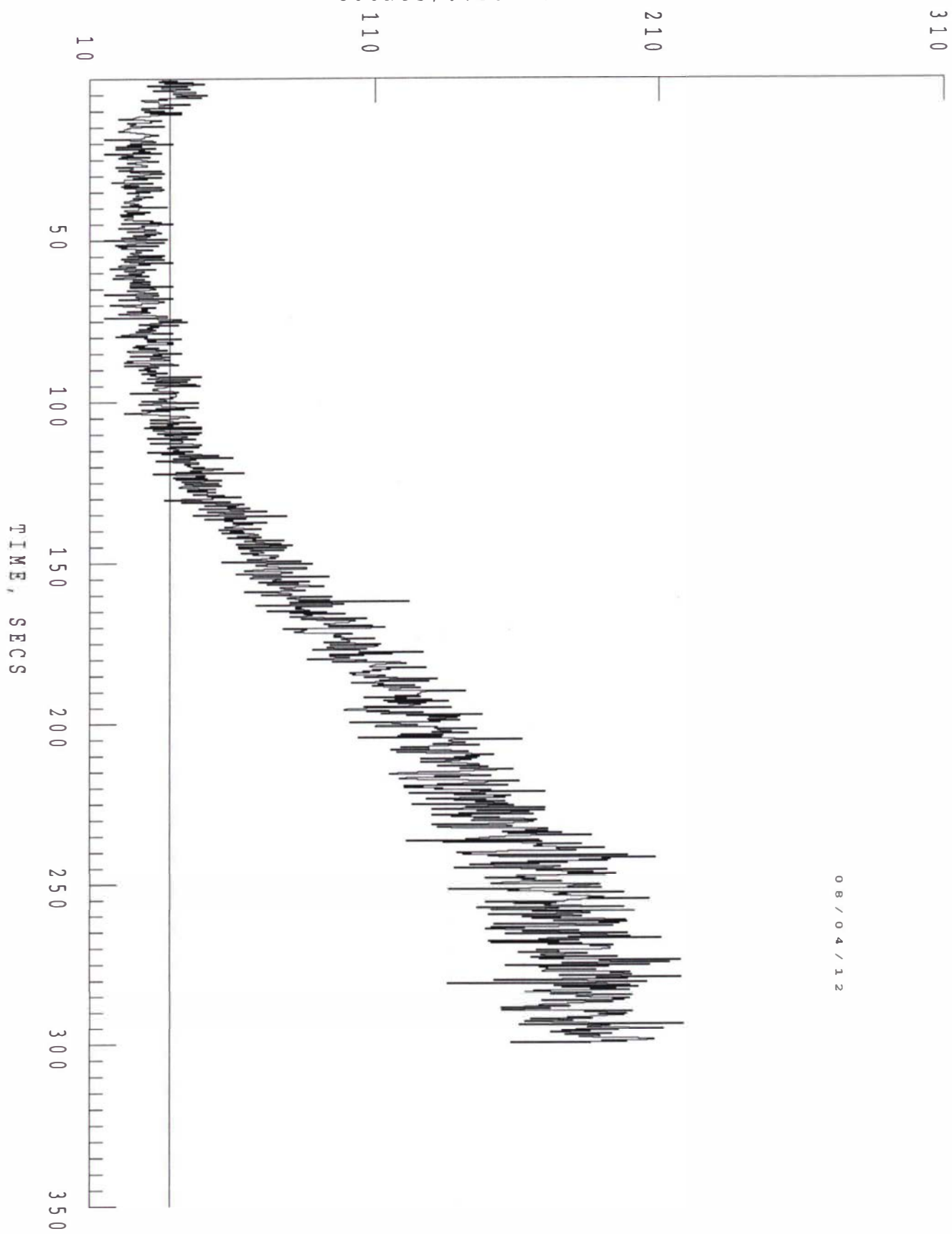


HESSI

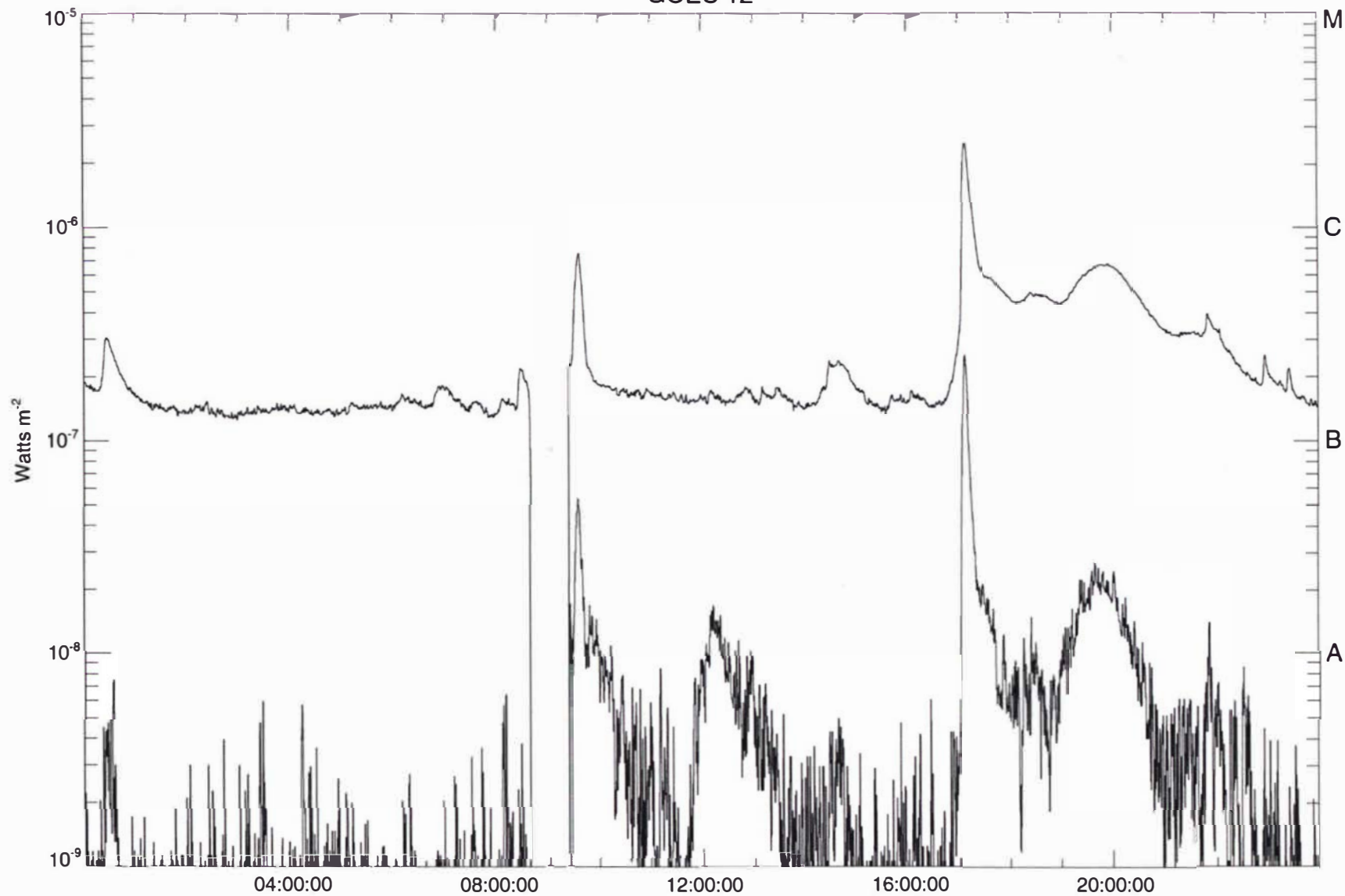
07/04/12 61330.000 (SUZAKU_20120407_61480)

25- 150 keV

COUNTS/0.250 S



GOES 12



Data Start: 12/04/07, 0000:10

Plot created: 12/04/10, 0843

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: [lpn] BAT lightcurve for trigger at 120408_0703

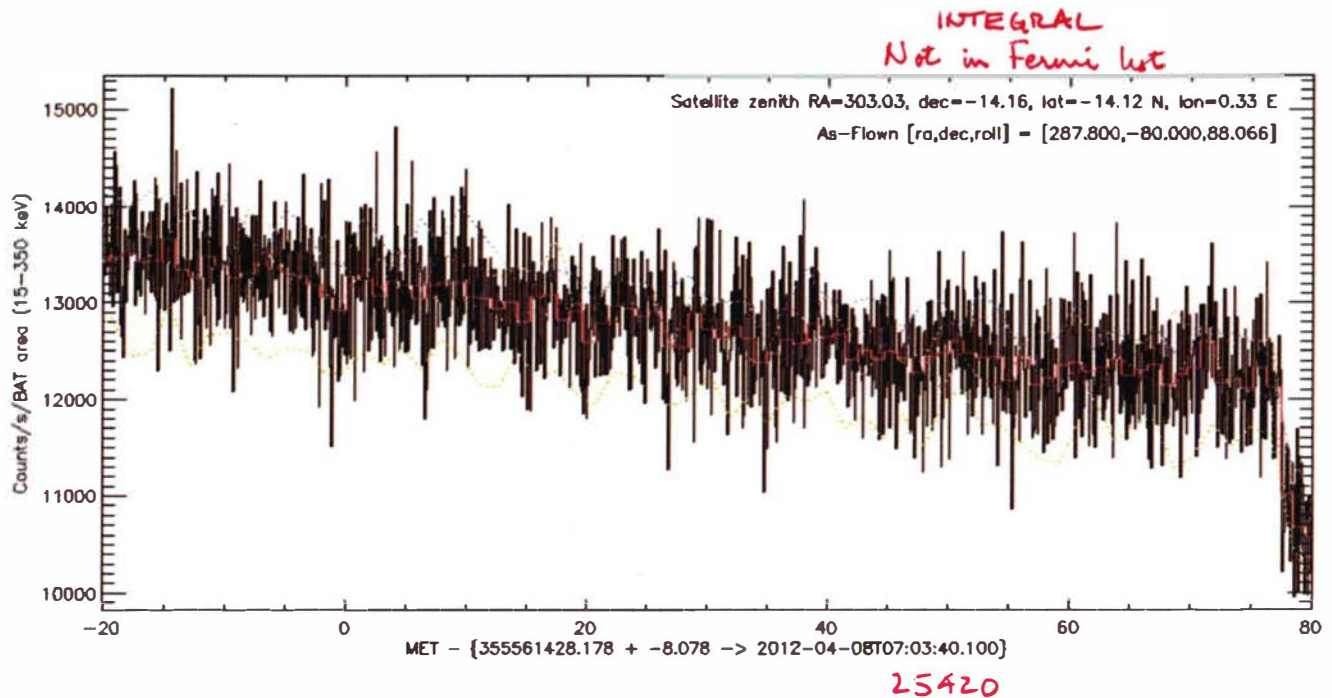
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/9/2012 4:25 PM

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/120408_0703.png



```
% /usr/local/bin/swinfo -o 355561428.178
Time(MET + UTC -> UT): 355561428.178 + -8.078 -> 2012-04-08T07:03:40.100
Swift Zenith(RA,dec): 303.03, -14.16
Swift Location(lon,lat,alt): 0.33 E, -14.12 N, 587 km
Obs Sequence Number: 00074157055
Obs Target Name: saa-cold-99-04
Obs Date and Times: 2012-04-08 06:37:53 - 07:04:51
Obs Pointing(ra,dec,roll): 287.800, -80.000, 88.07
```

--
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>

Attachments:

/tmp/120408_0703.png	19.8 KB
/tmp/120408_0703_bat64ms_ipn	87.1 KB

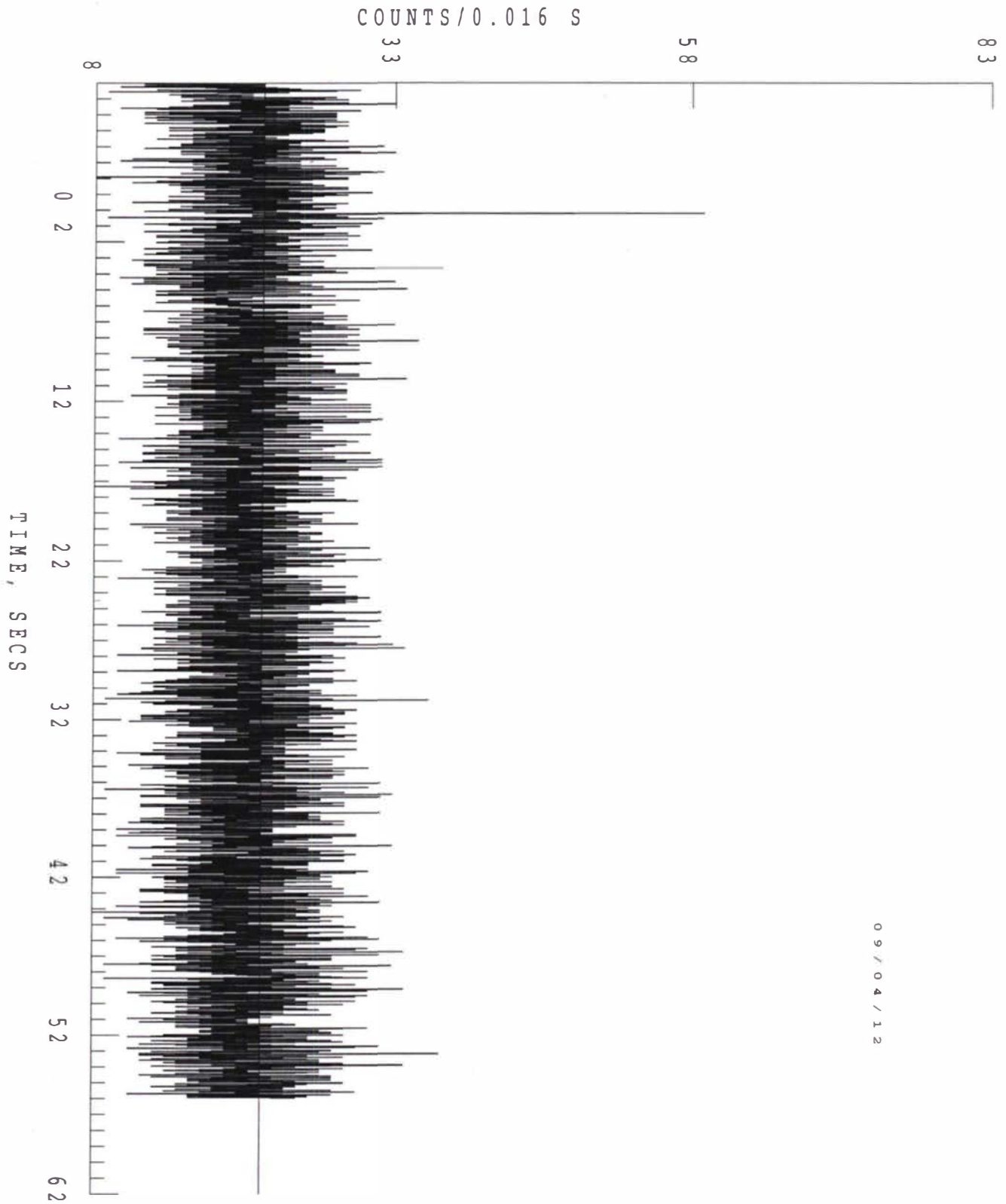
SUZAKU

08/04/12

75751.741

Not in Suzaku list

50 - 240 keV



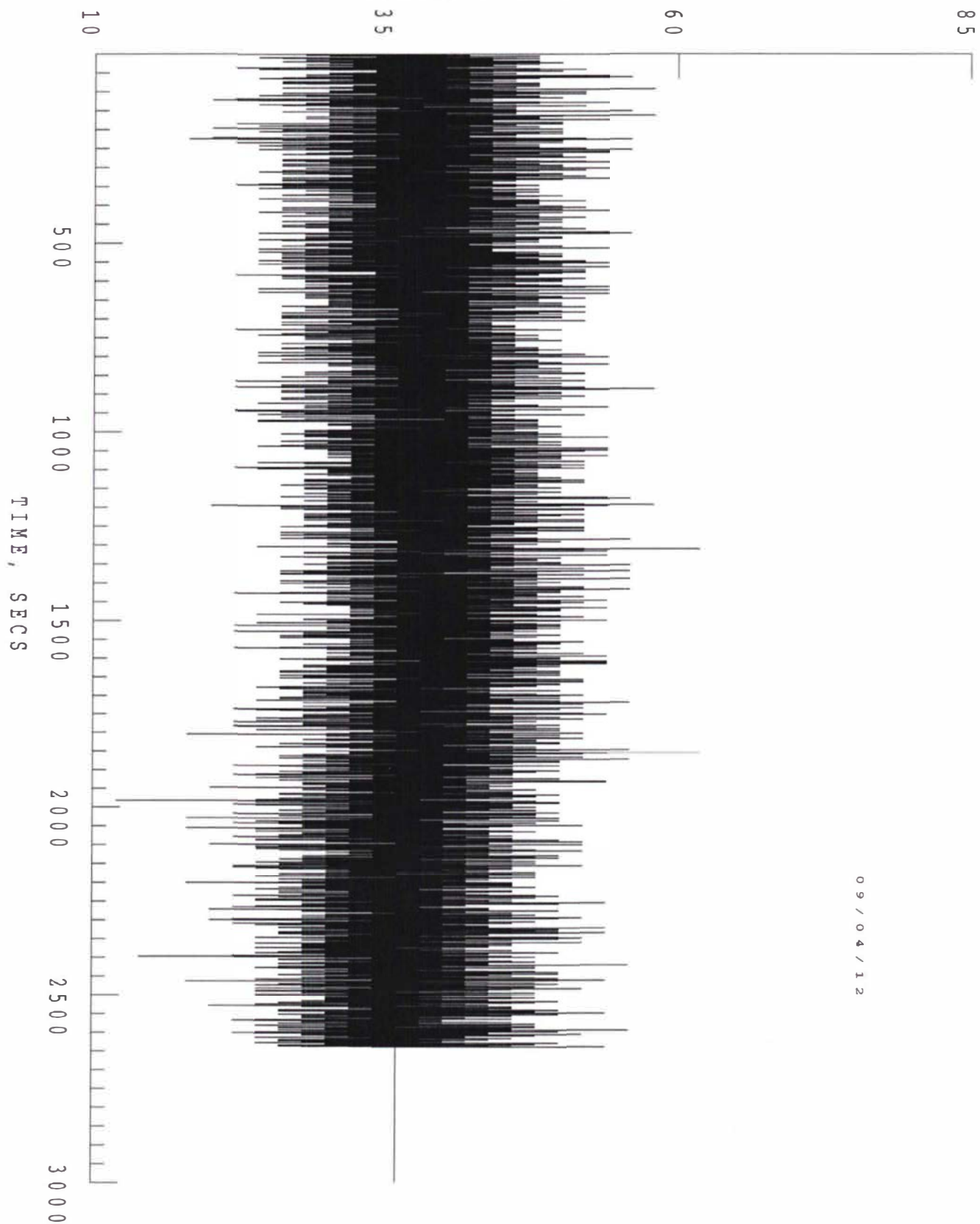
MS01

08/04/12

74415.342

50 - 3000 keV

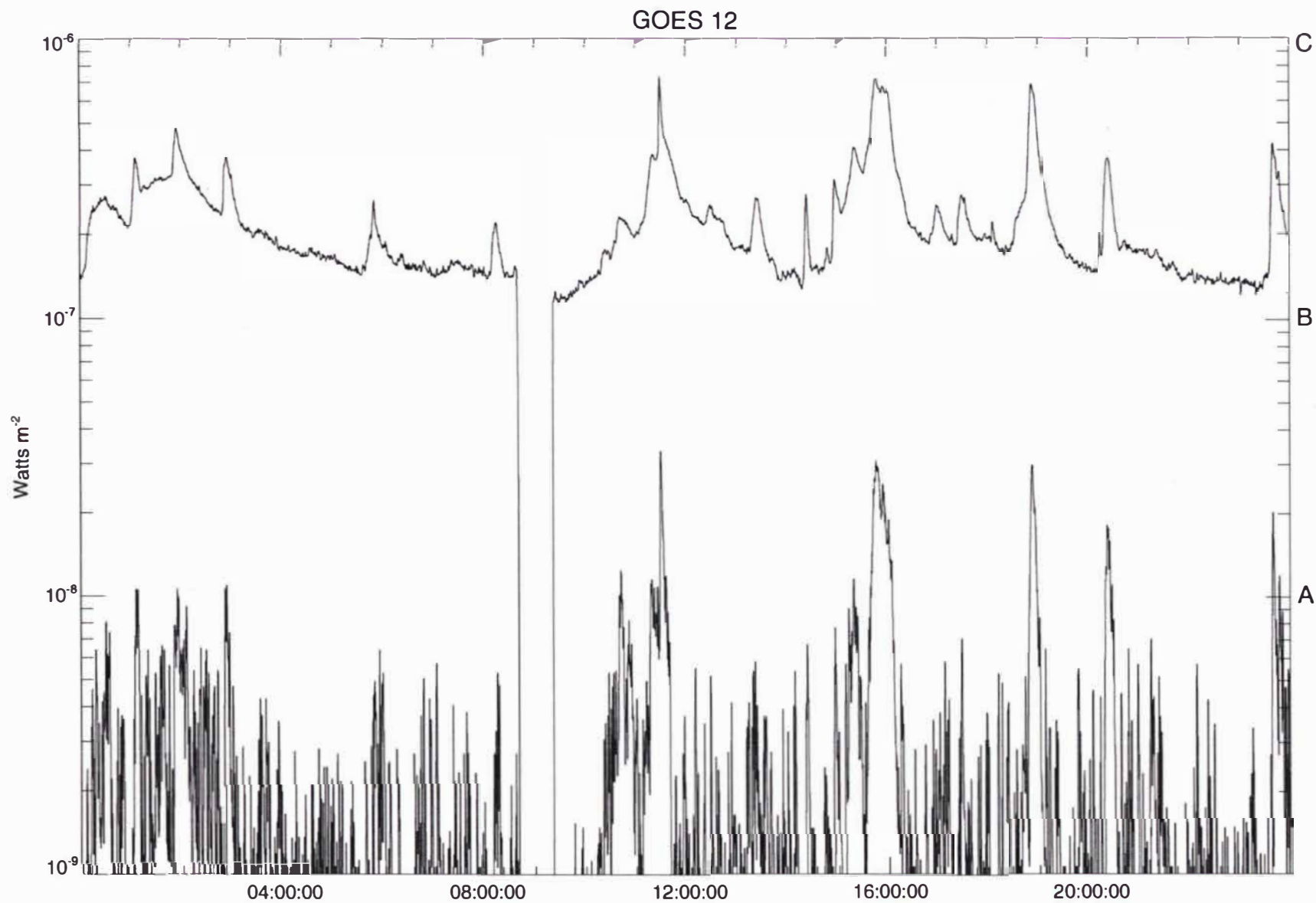
COUNTS/0.250 S



09/04/12

From williams@gammaburst.ssl.berkeley.edu Fri Apr 13 23:10:46 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.144
~Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Fri, 13 Apr 2012 23:02:02 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_20120408_75751
X-Ucb-Scan-Signature: 8246251ddfabca17c7ffff11c41ce9a75e370637b
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 13-Apr-2012 23:09:50.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Time_Range Partially in SAA
Full time range in eclipse
Time Range Partially in non-SAA data gap
No Data Available For This Time Range
Do Not Retry



Data Start: 12/04/08, 0000:10

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 12/04/11, 0843

Sample average = 10

Date: Apr 8 2013 + 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/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?

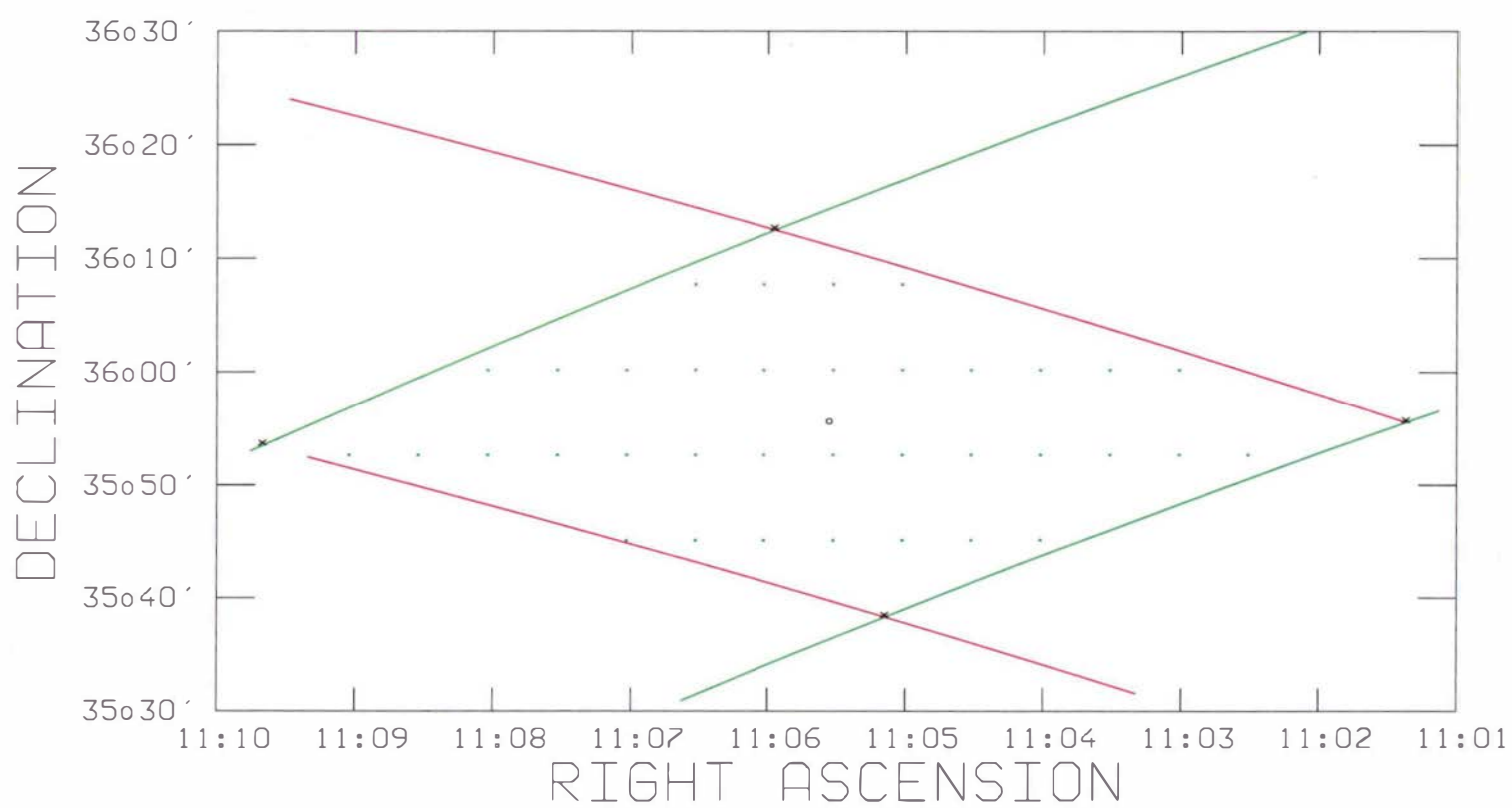
6. For 3 or More Spacecraft events

- ☒ $\Sigma 3\Delta t$'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-ipncl.pl>)

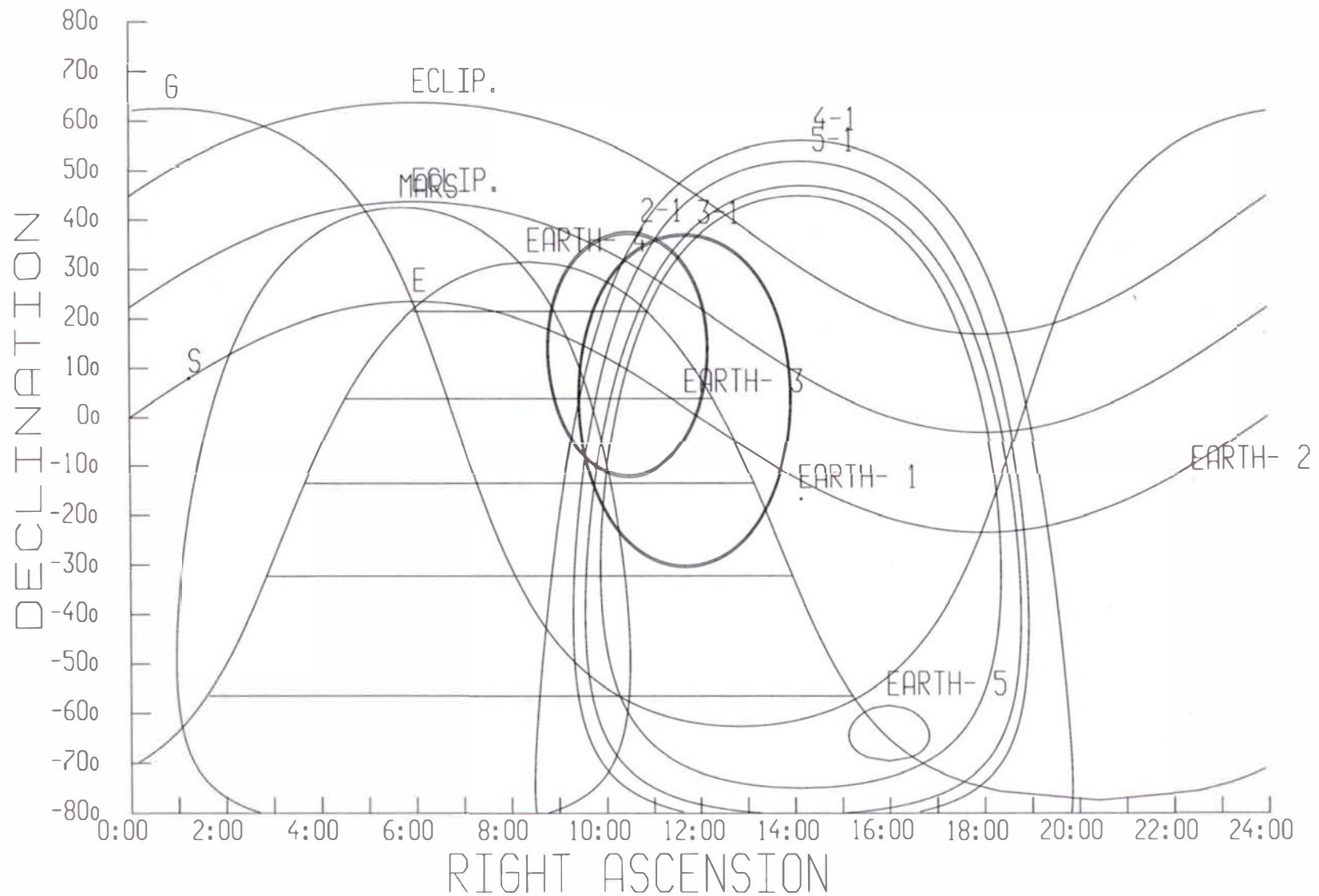
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

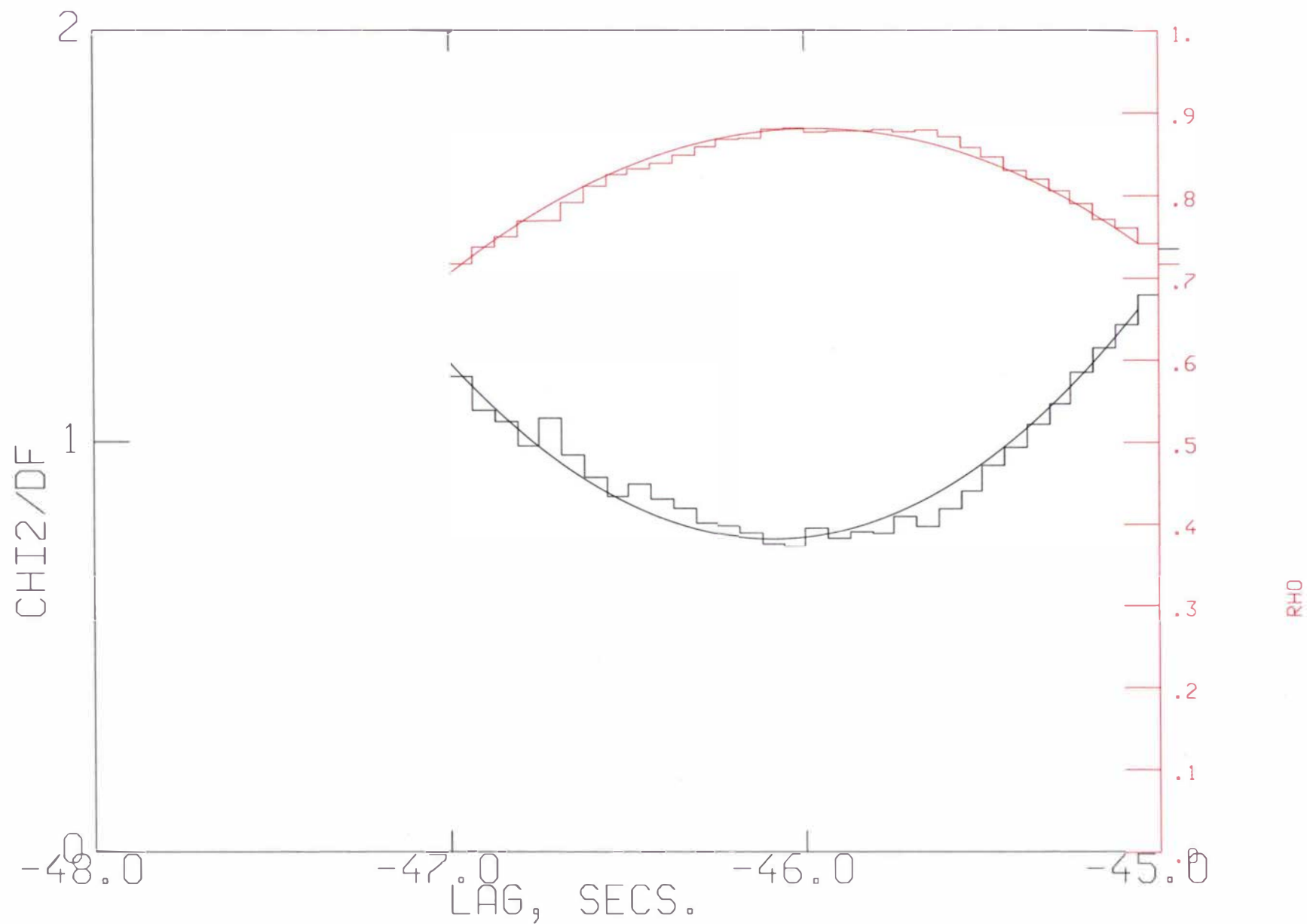


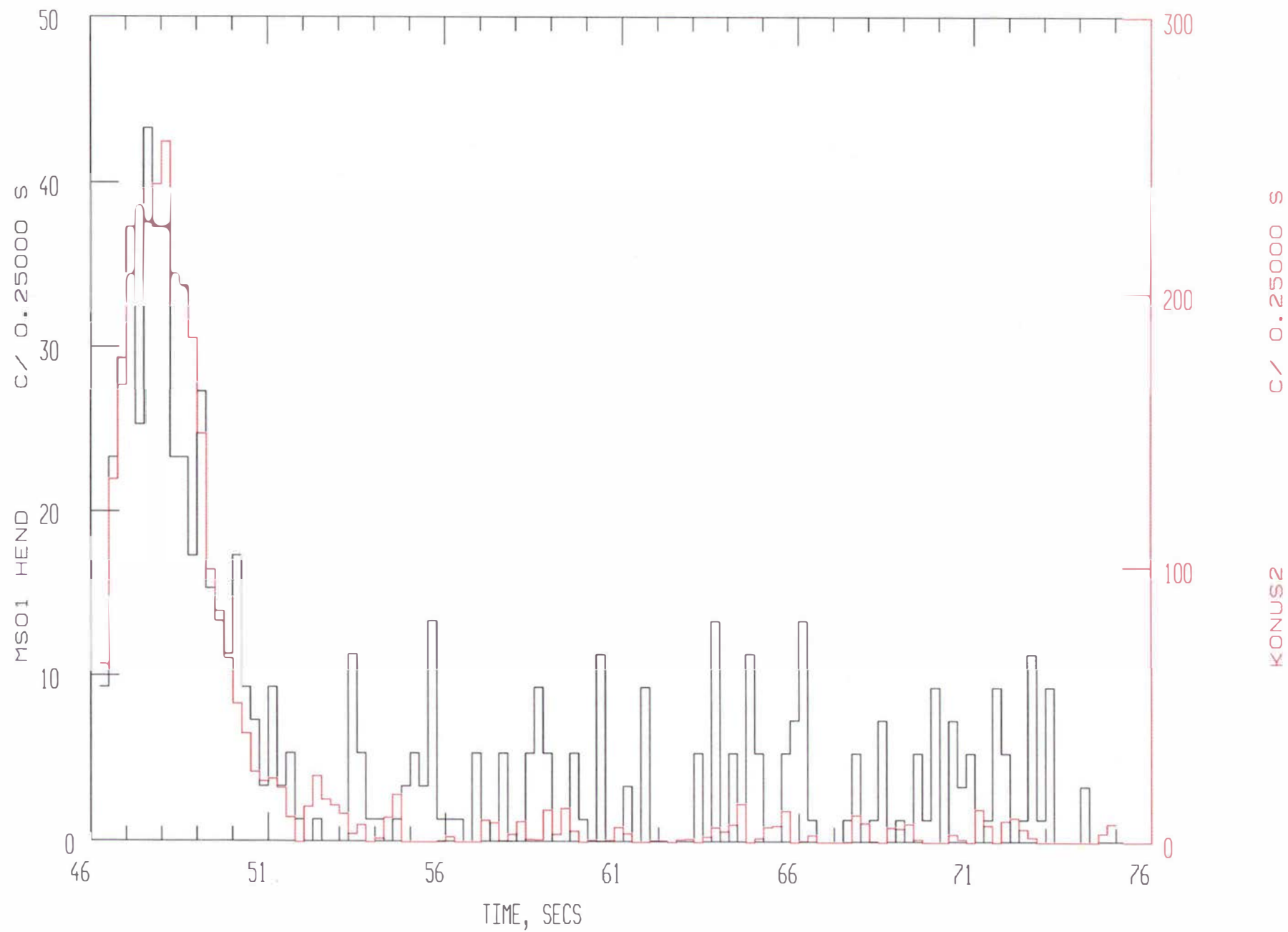
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS2 2 MO 3 MESSENGER 4 HESSI 5 INTEGRAL

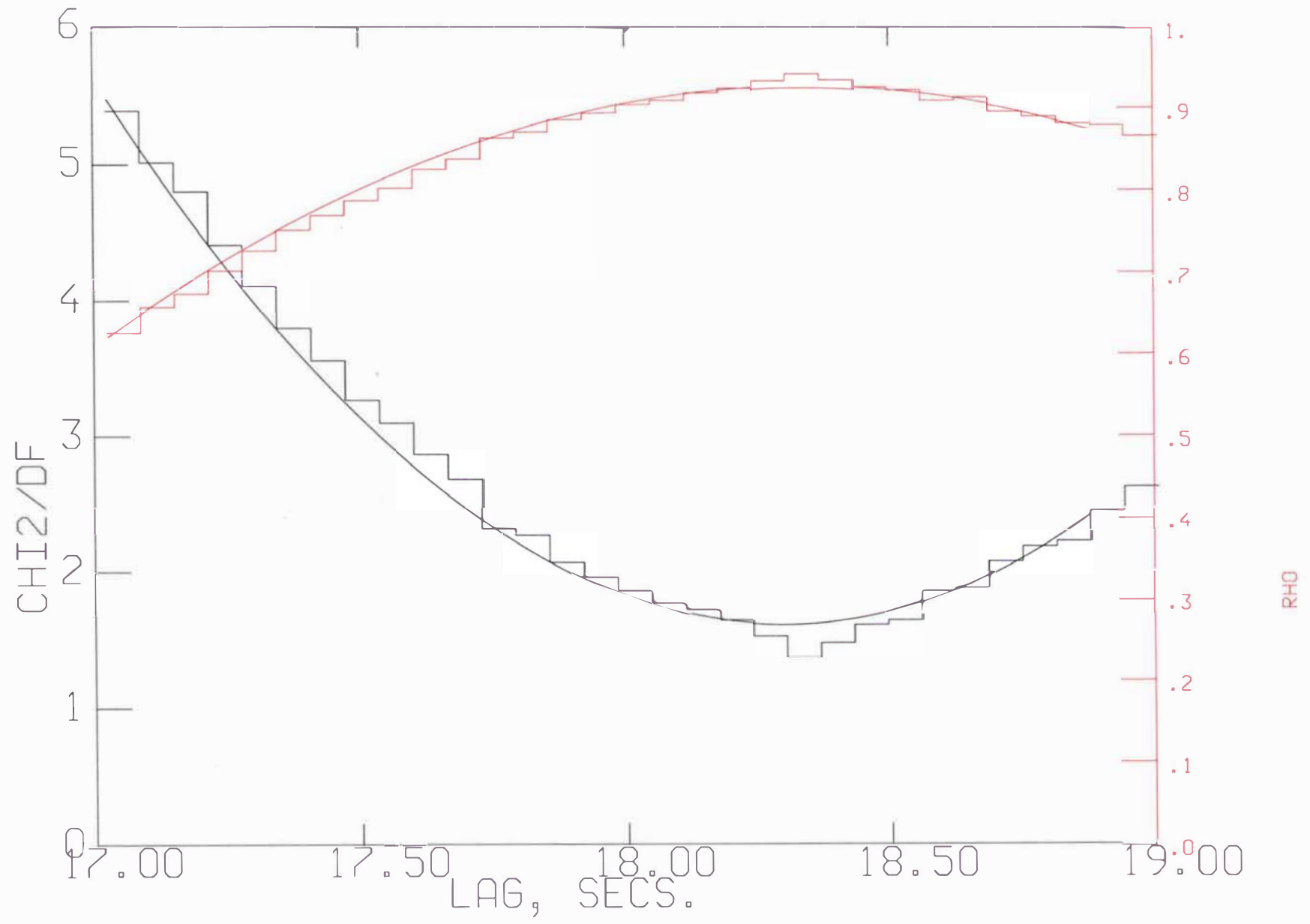
EVENT OF APR 9, 2012 19:56

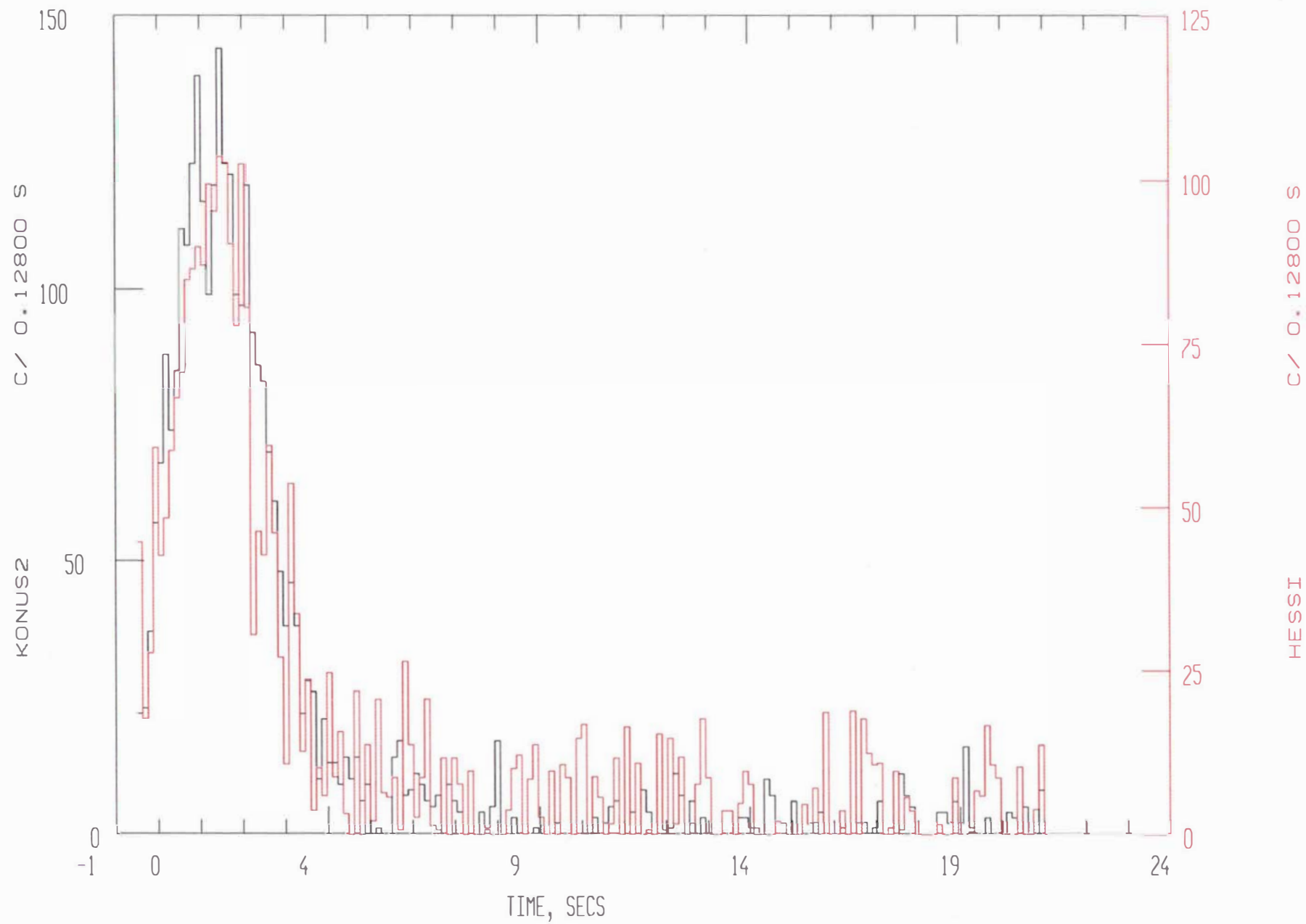
08/04/2013

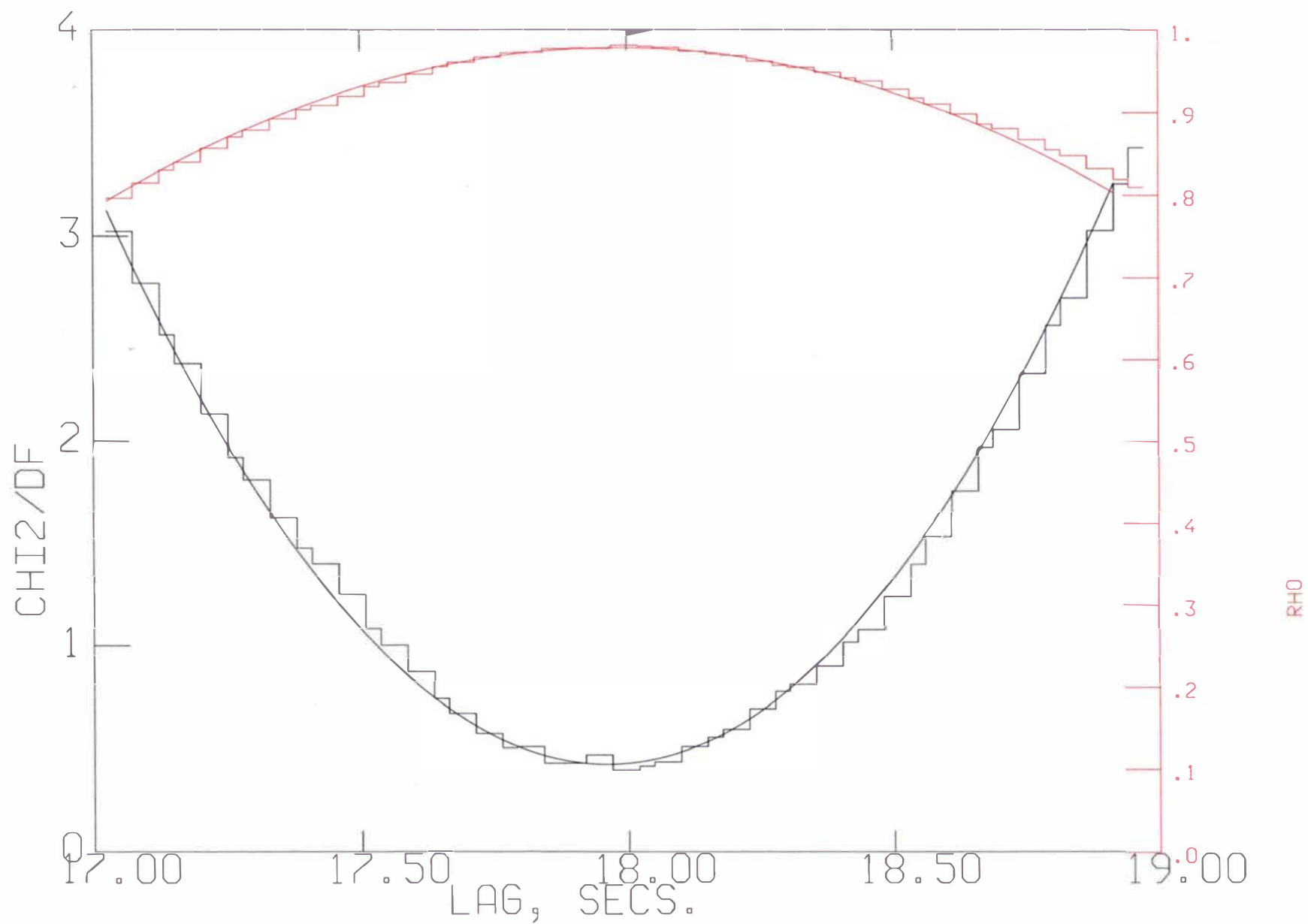


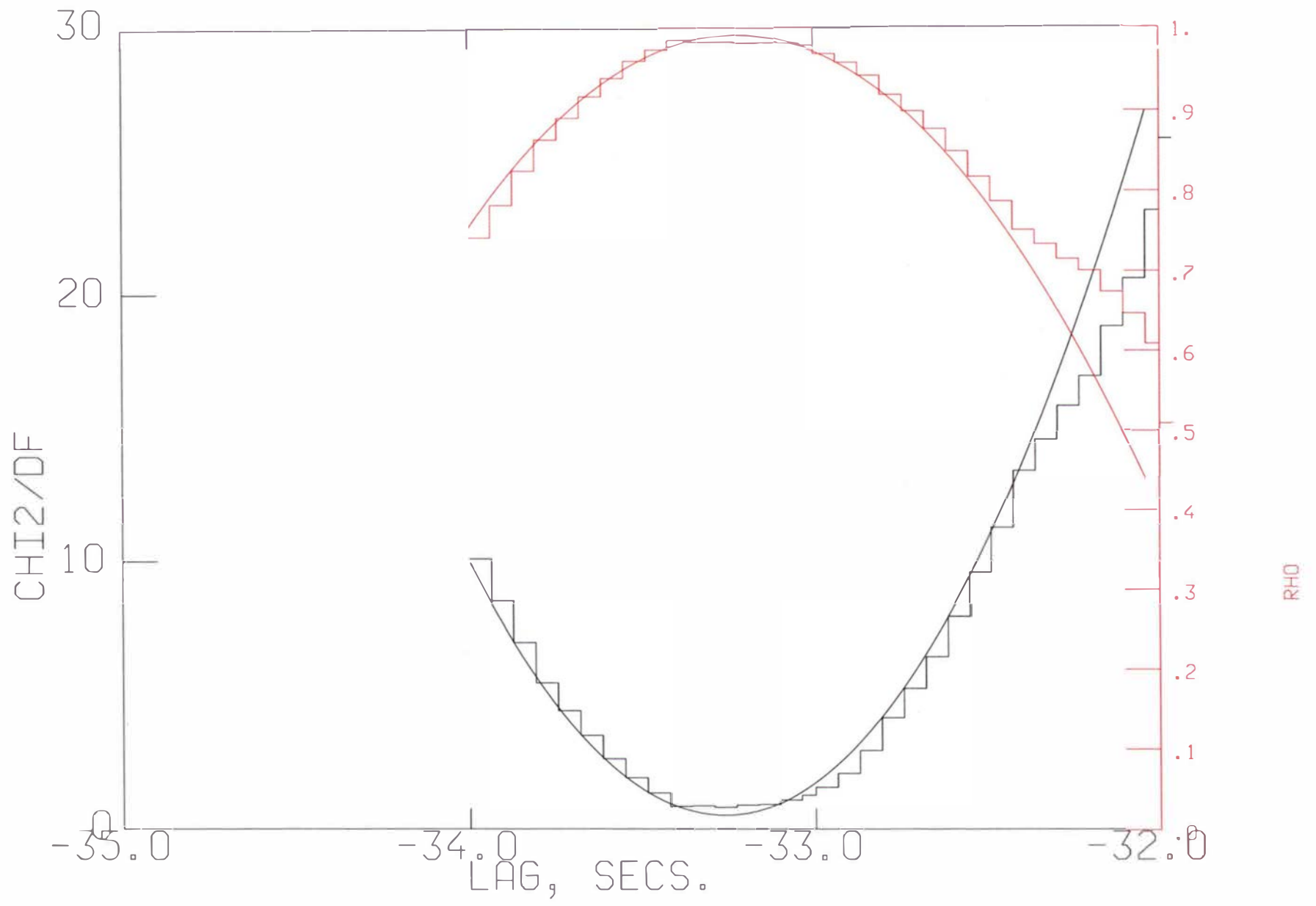


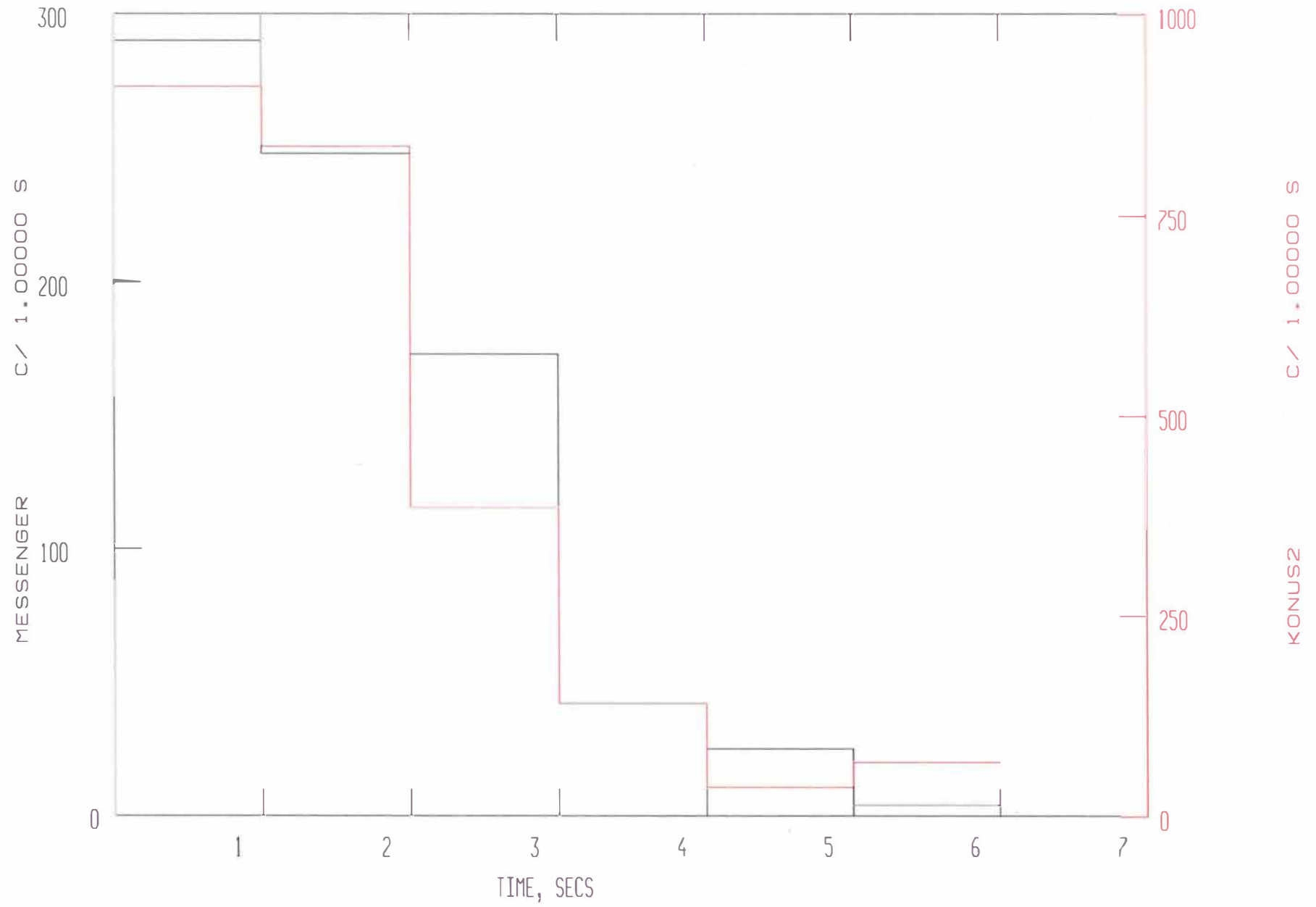


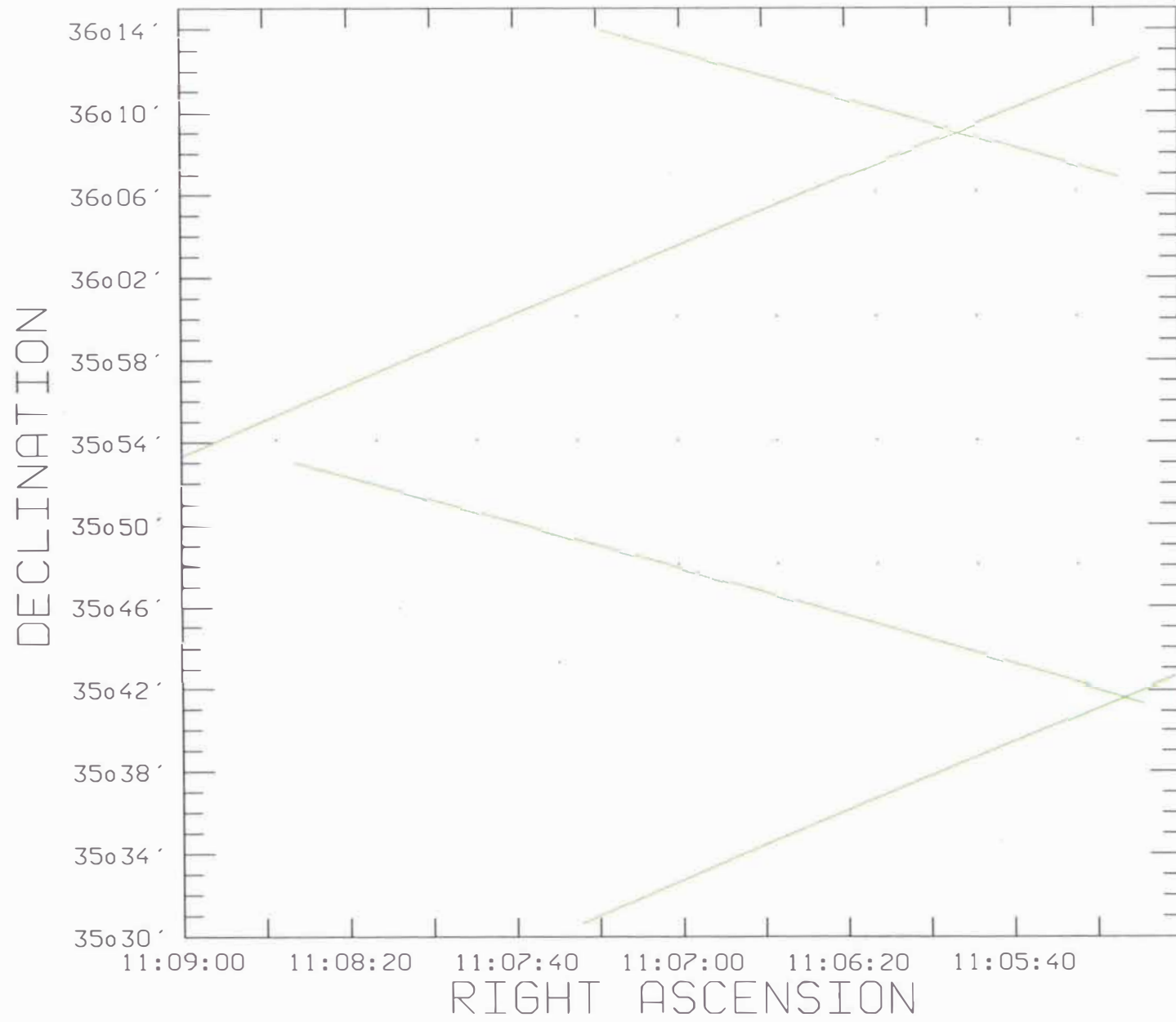


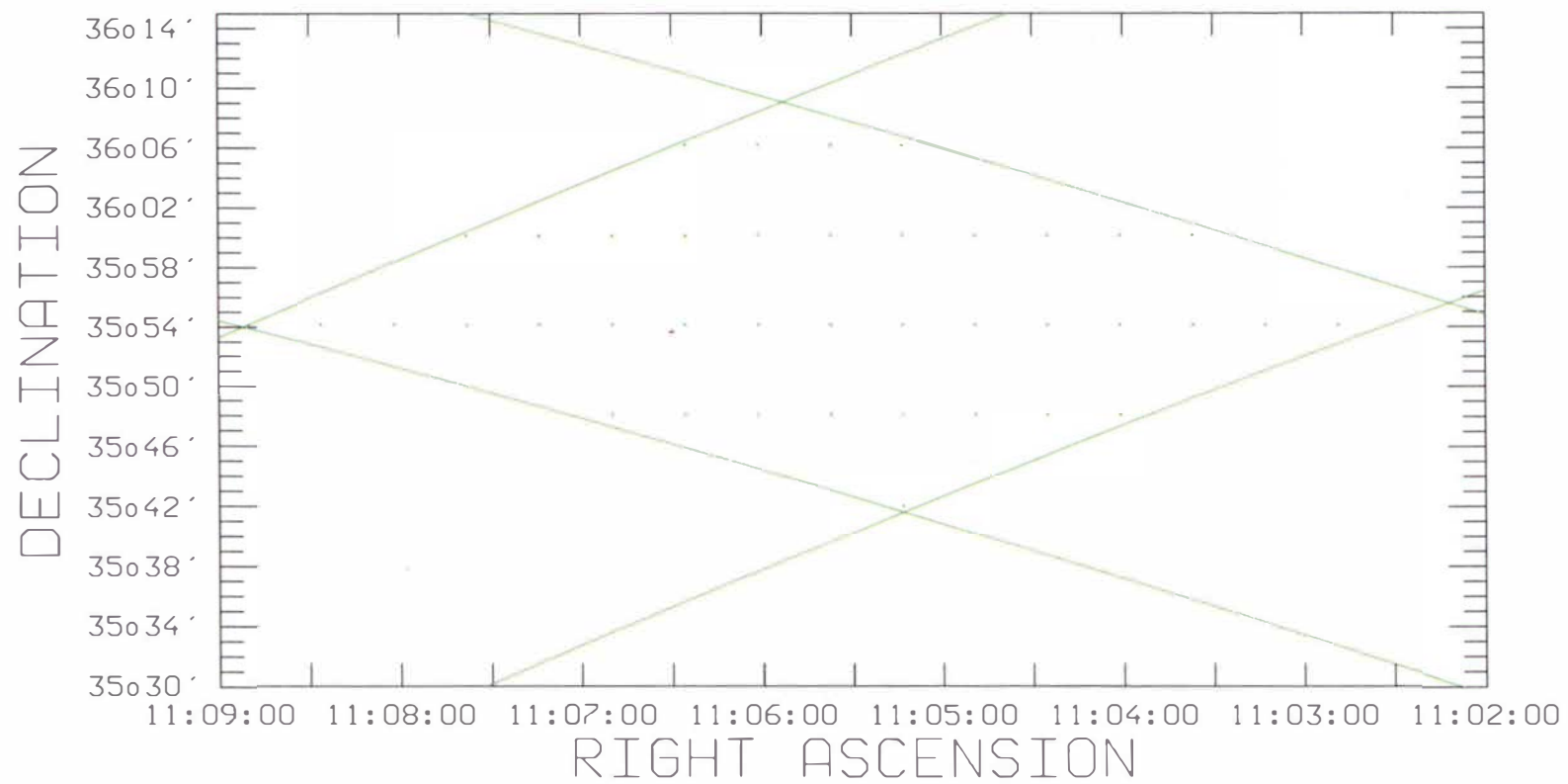












KONUS2

09/04/12

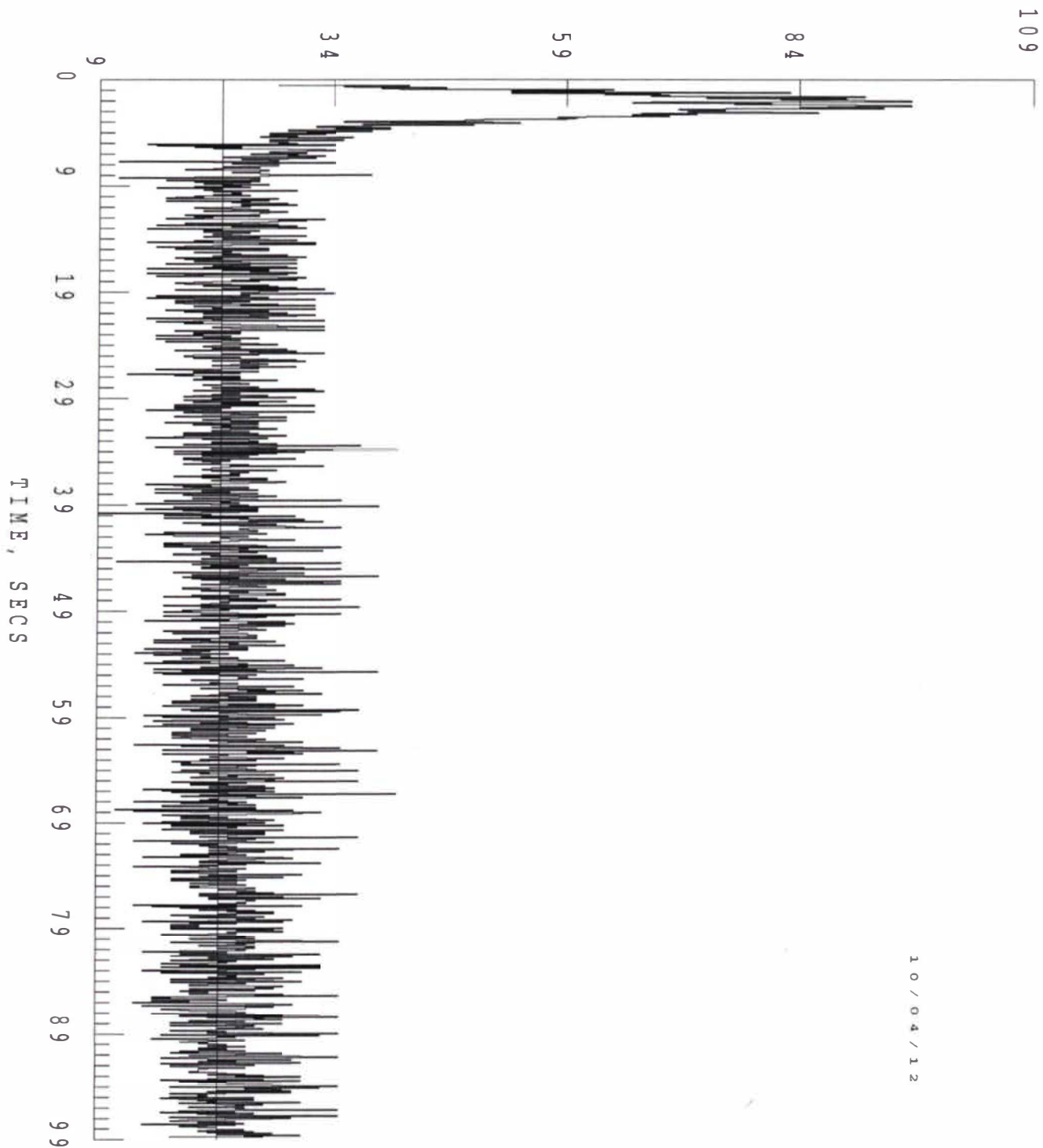
71782.857

19:56:22

50 - 200 keV

G23

COUNTS/0.064 S



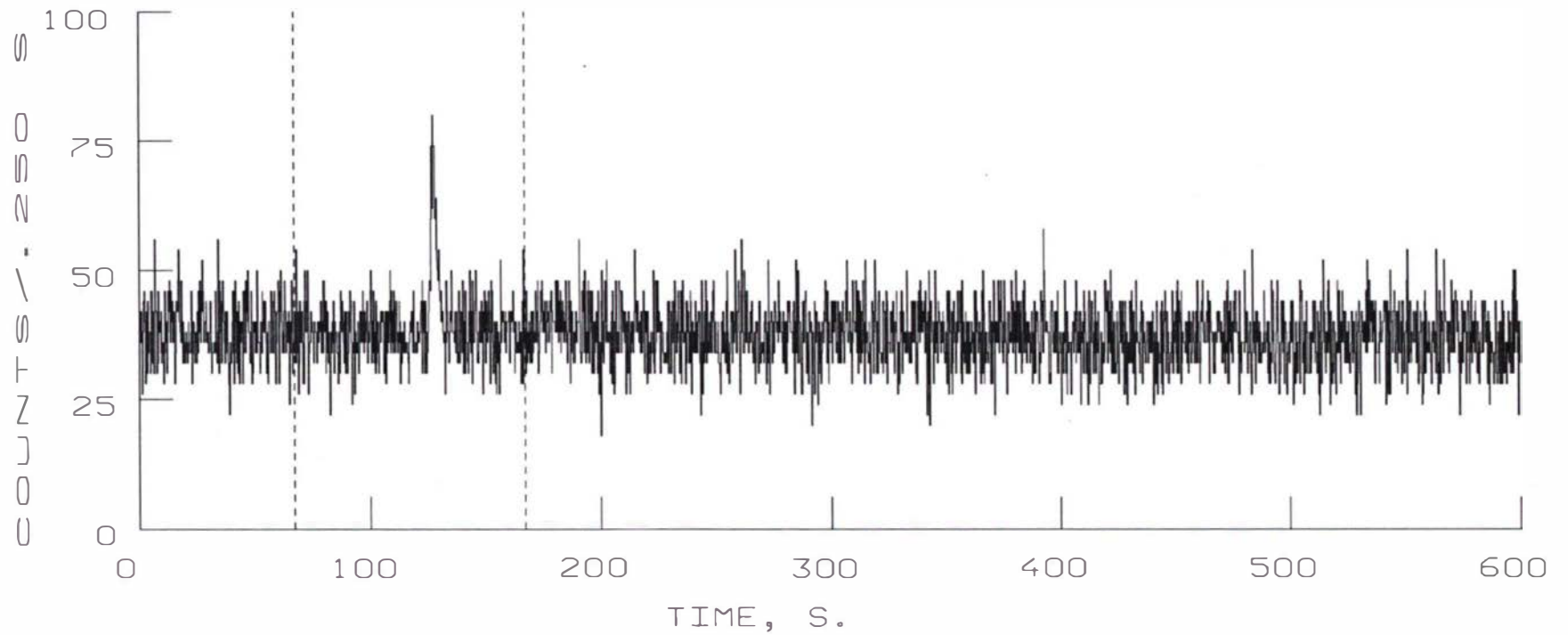
MS01 HEND

08/04/2013

09/04/2012 71293.828 s

50-3000 keV

N=10 M=80
>4.0 SIGMA FLUCTUATIONS

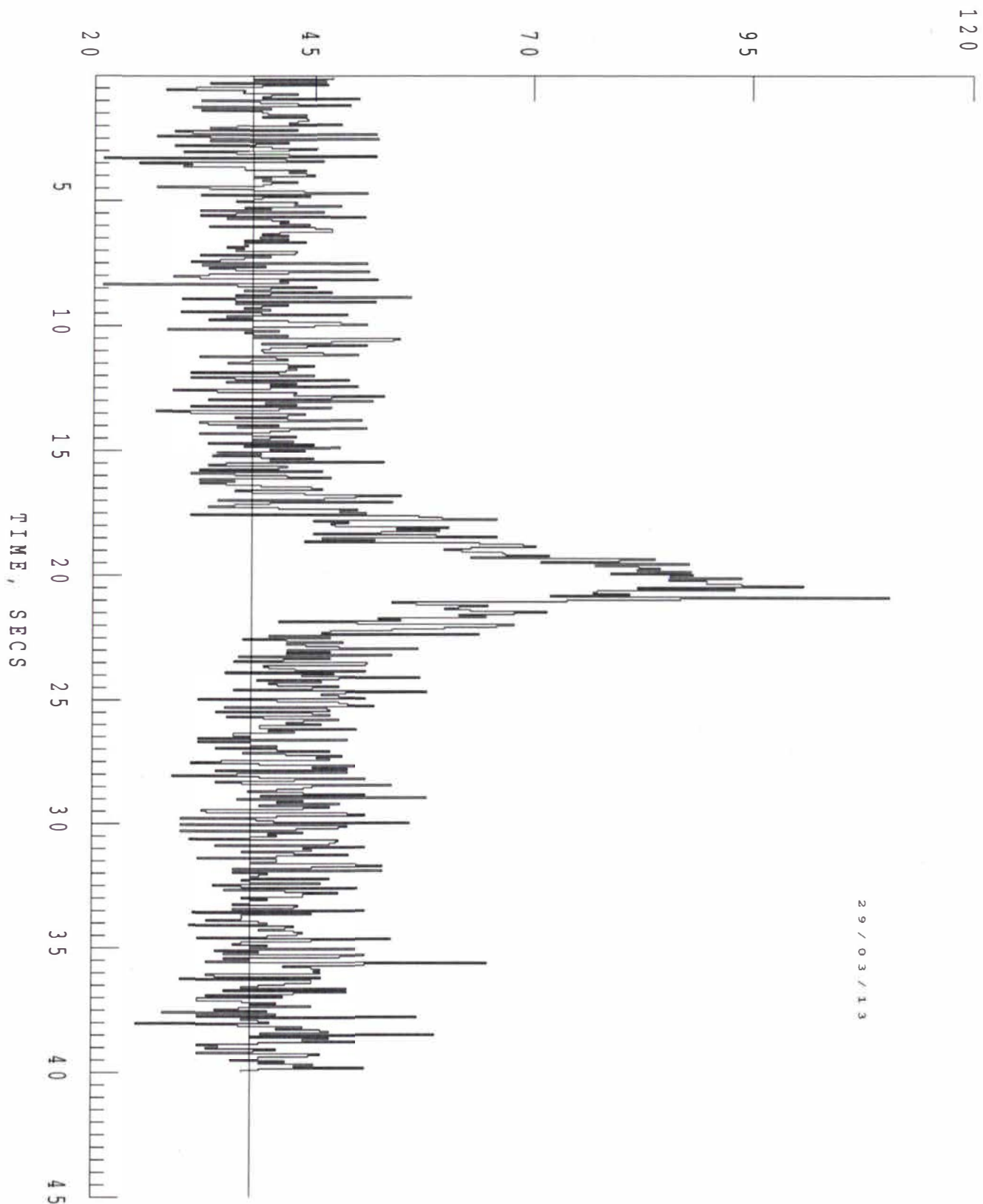


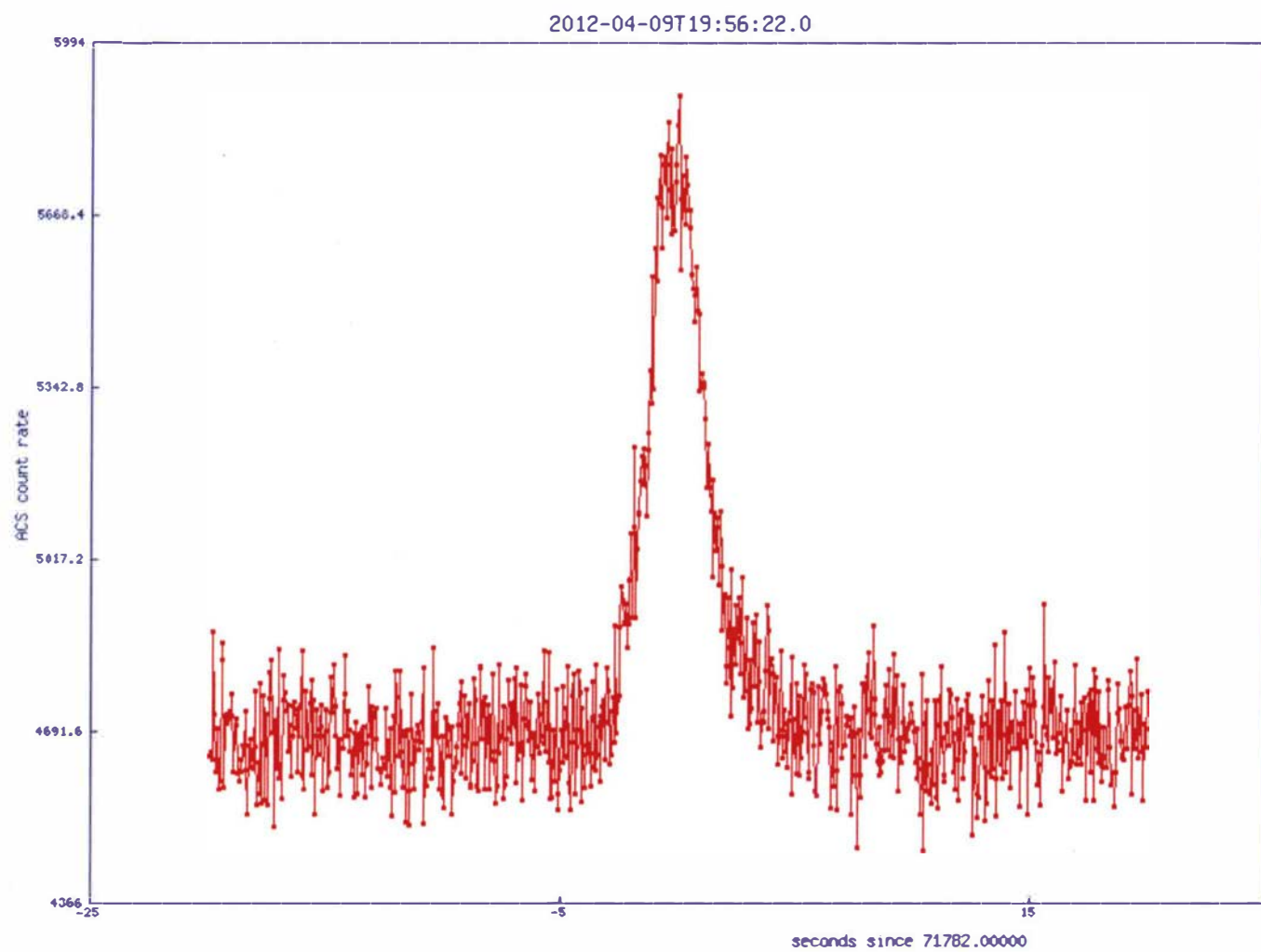
HESSI

09/04/12 71762.000 (KONUS_20120409_71782)

50- 200 keV

COUNTS/0.064 S





Subject: [Ipn] BAT lightcurve for trigger at 120409_1956

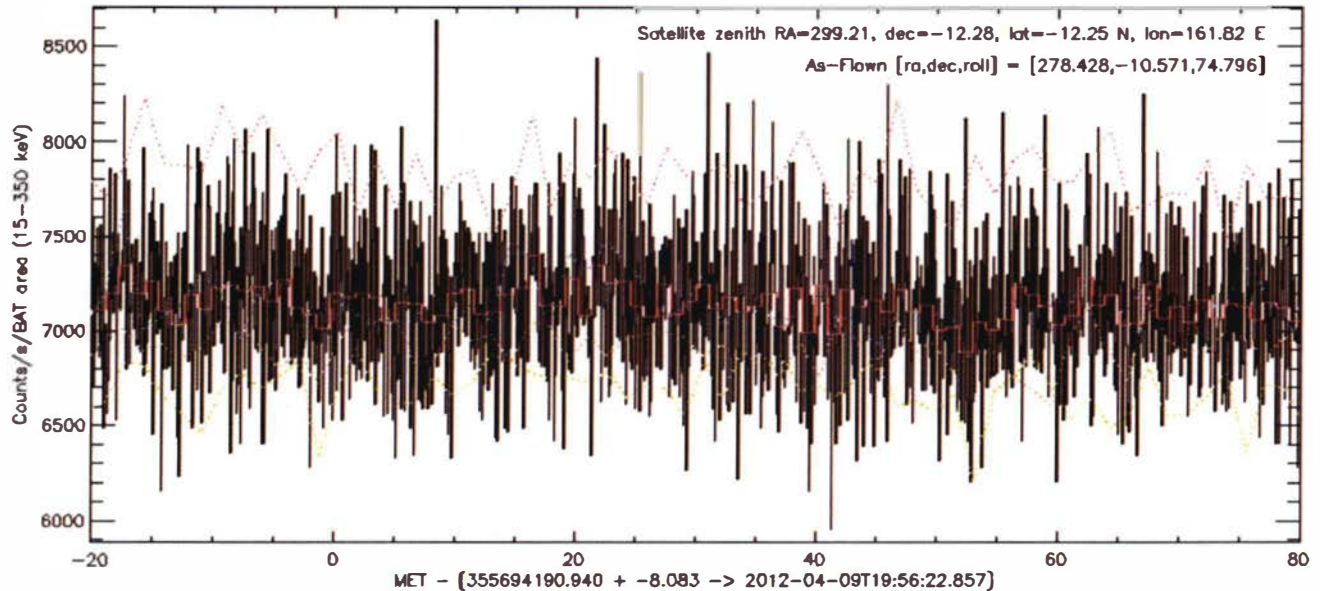
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/11/2012 3:16 PM

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/120409_1956.png



```
% /usr/local/bin/swinfo -o 355694190.940
Time(MET + UTCF -> UT): 355694190.940 + -8.083 -> 2012-04-09T19:56:22.857
Swift Zenith(RA,dec): 299.21, -12.28
Swift Location(lon,lat,alt): 161.82 E, -12.25 N, 585 km
Obs Sequence Number: 00053600090
Obs Target Name: SNR G21.5-0.9
Obs Date and Times: 2012-04-09 19:45:53 - 19:59:49
Obs Pointing(ra,dec,roll): 278.428, -10.571, 74.80
```

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

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

Attachments:

/tmp/120409_1956.png	22.8 KB
/tmp/120409_1956_bat64ms_ipn	87.1 KB

16/07/12

MESSENGER

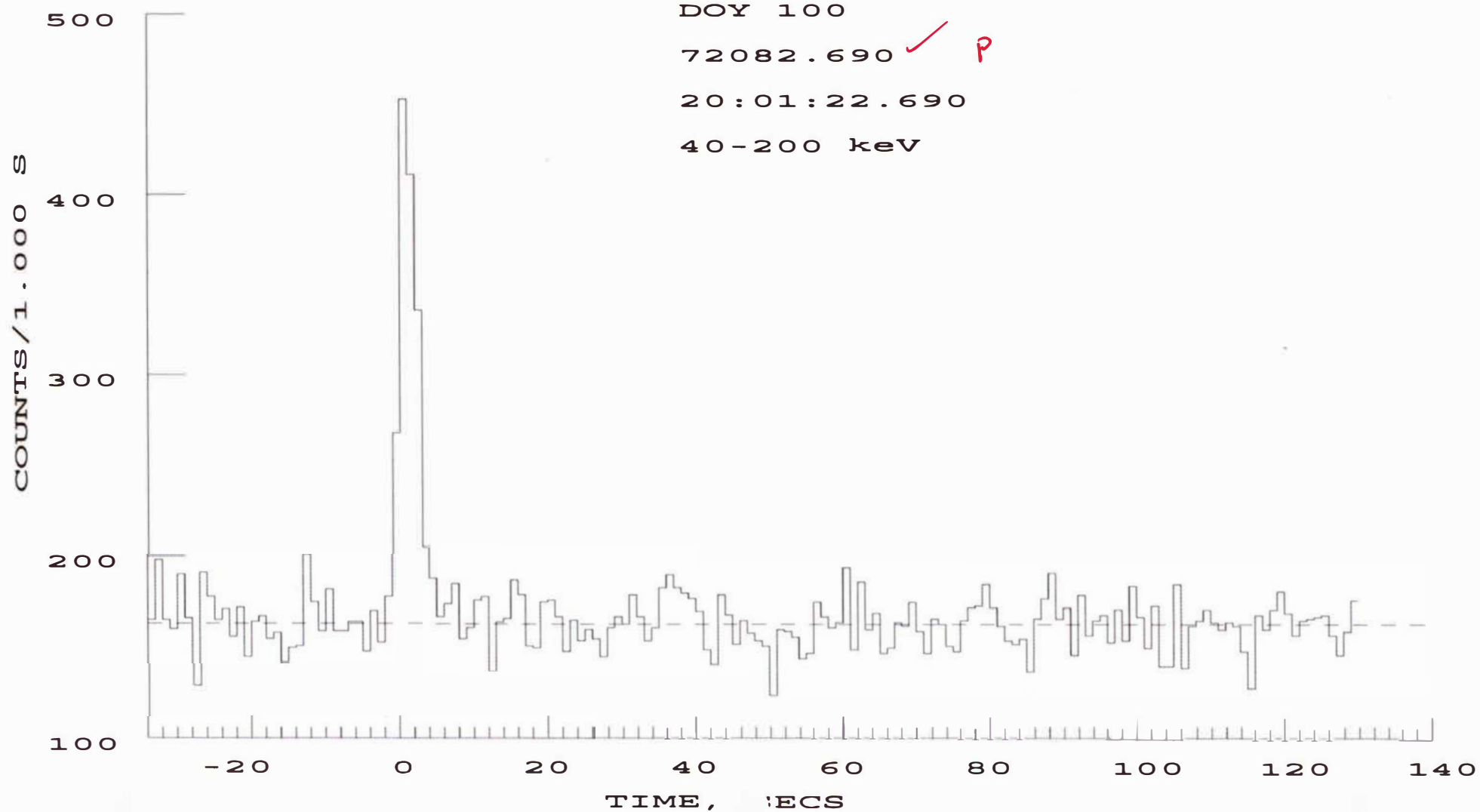
09/04/12

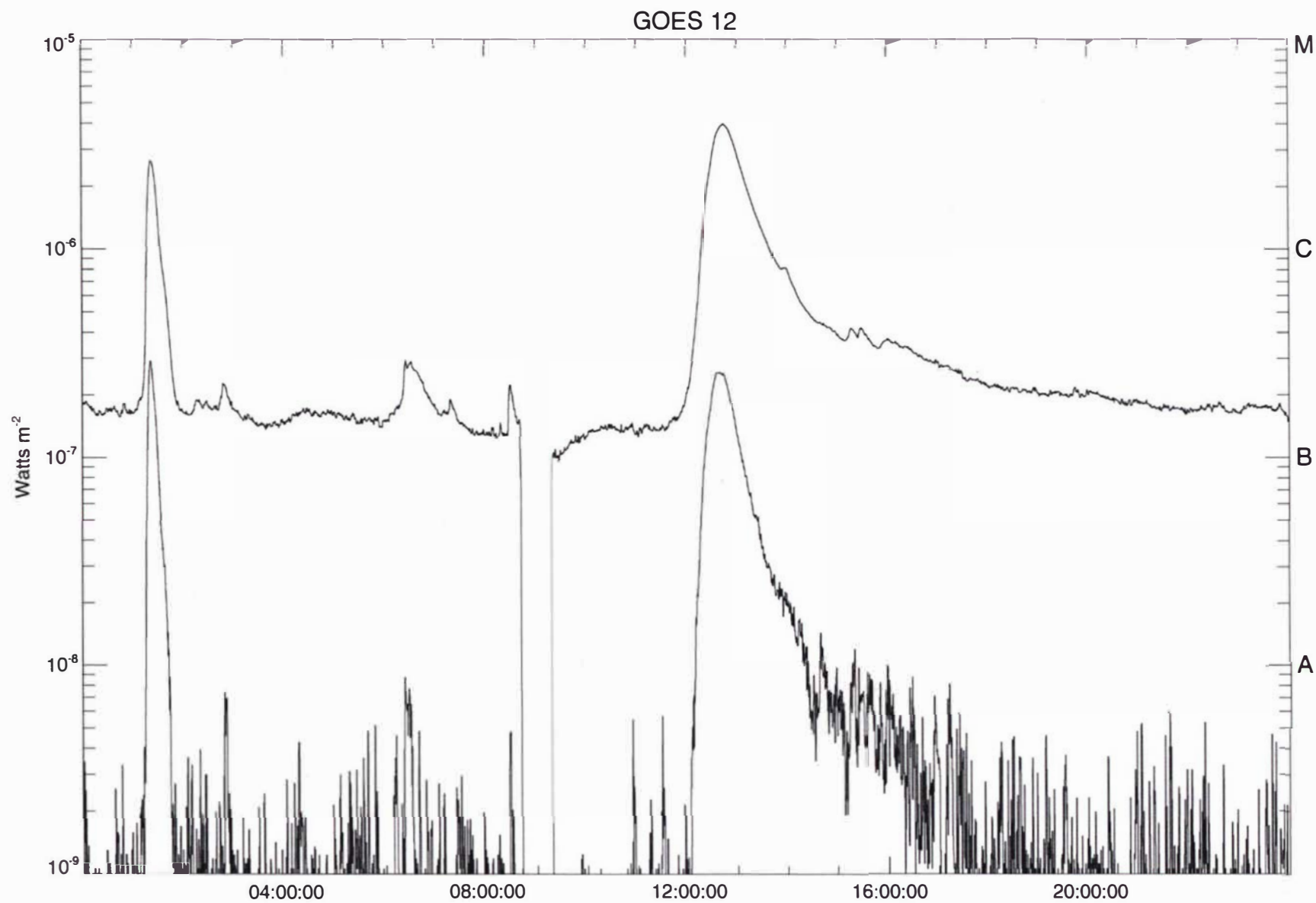
DOY 100

72082.690 ✓ P

20:01:22.690

40-200 keV





Data Start: 12/04/09, 0000:10

Plot created: 12/04/12, 0843

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

SUZAKU

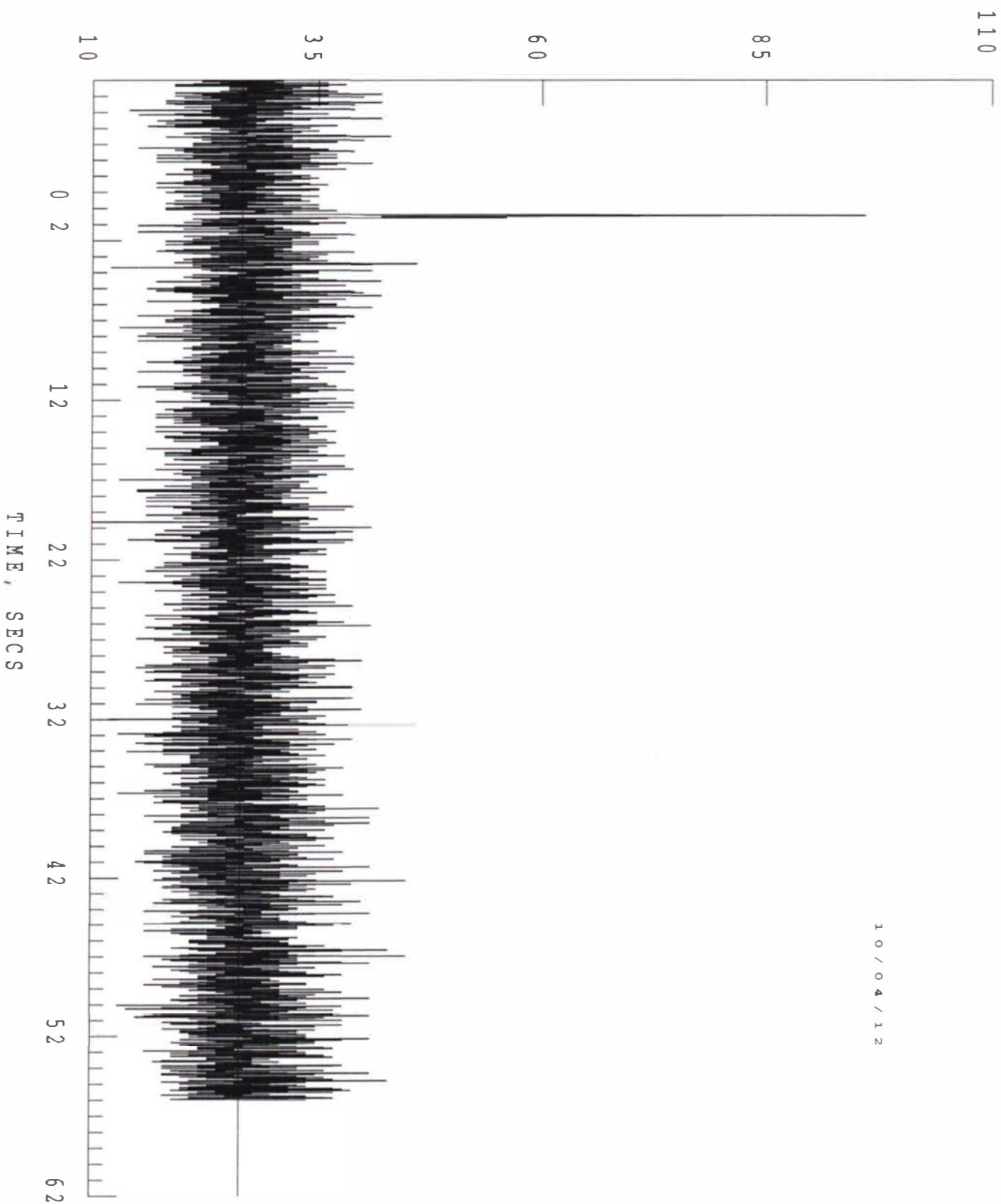
10/04/12

50519.719

14:01:59

50 - 240 keV

COUNTS/0.016 S



Subject: Suzaku/WAM TRN AUTOMATIC SEARCH: ae20120410_0335_0155_hxd_wam.uff

From: aetouban@astro.isas.jaxa.jp (Astro-E2 USC Duty Scientist)

Date: 4/10/2012 7:24 PM

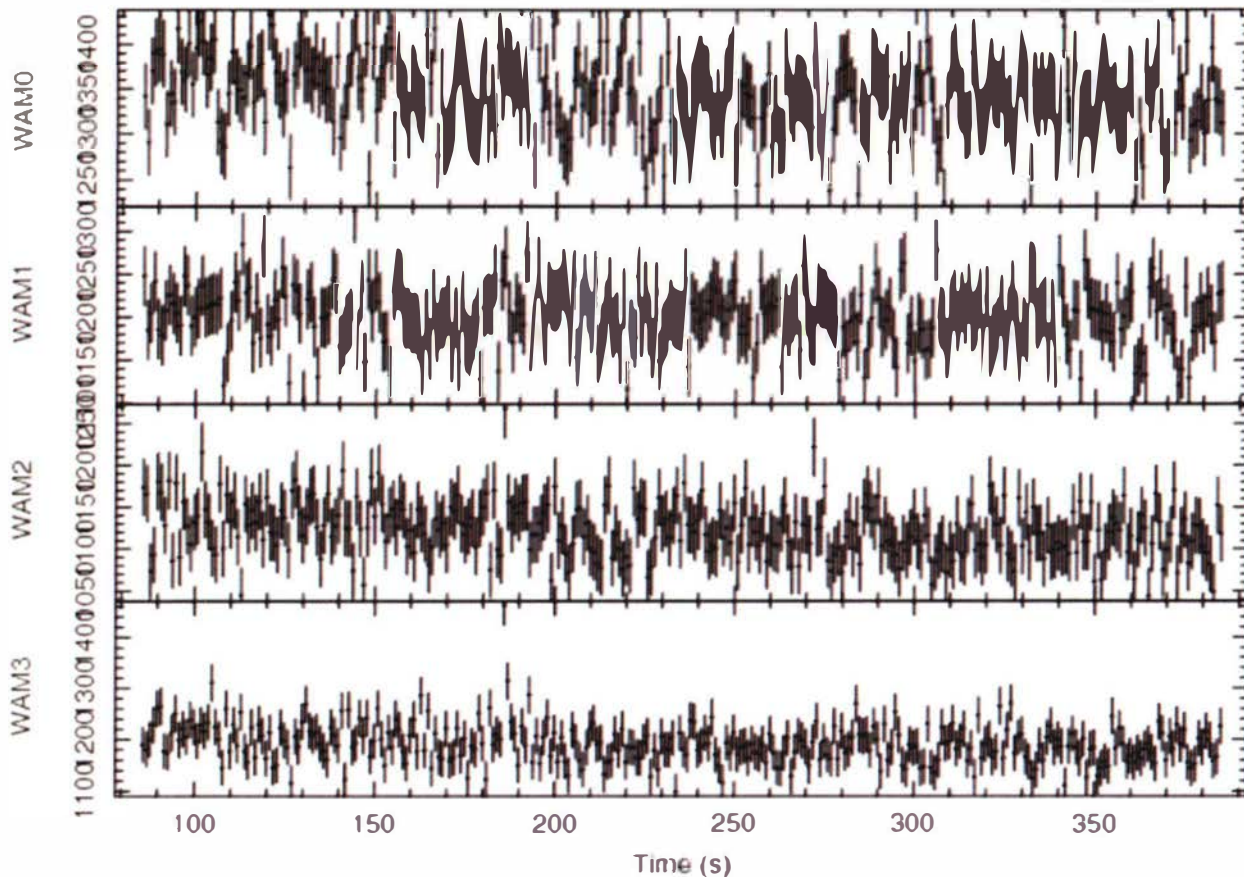
To: hxd-grb@astro.isas.jaxa.jp, khurley@ssl.berkeley.edu, val@mail.ioffe.ru

2012-04-10 14:01:59 3.8738172121971583e+08 7.5

2012-04-10 14:26:12 3.8738317421943051e+08 6.1

TRN AUTOMATIC SEARCH 2012-04-10 14:01:59 50519

Bin time: 1.000 s



Start Time 16027 14:01:25.904 Stop Time 16027 14:06:24.904

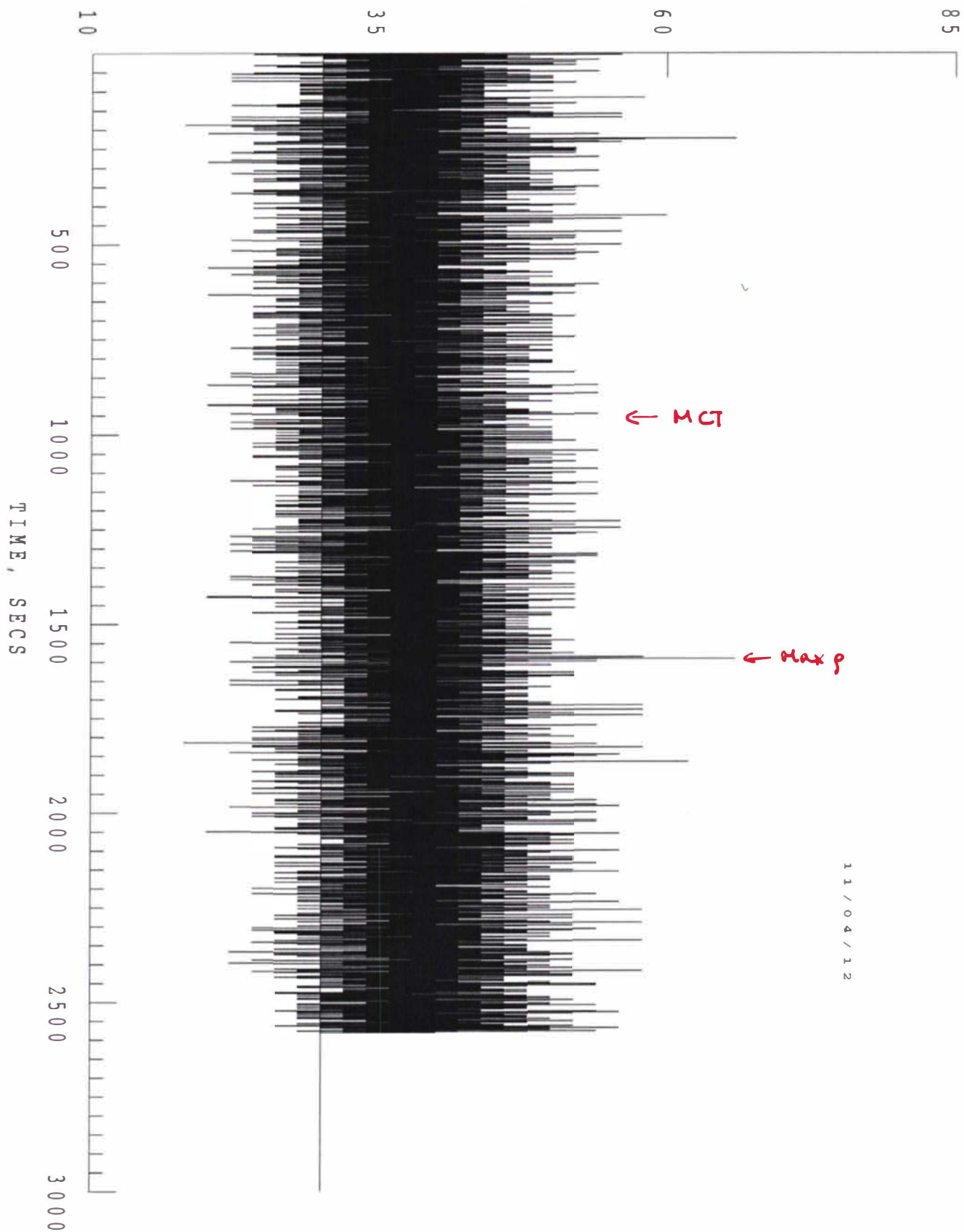
MS01

10/04/12

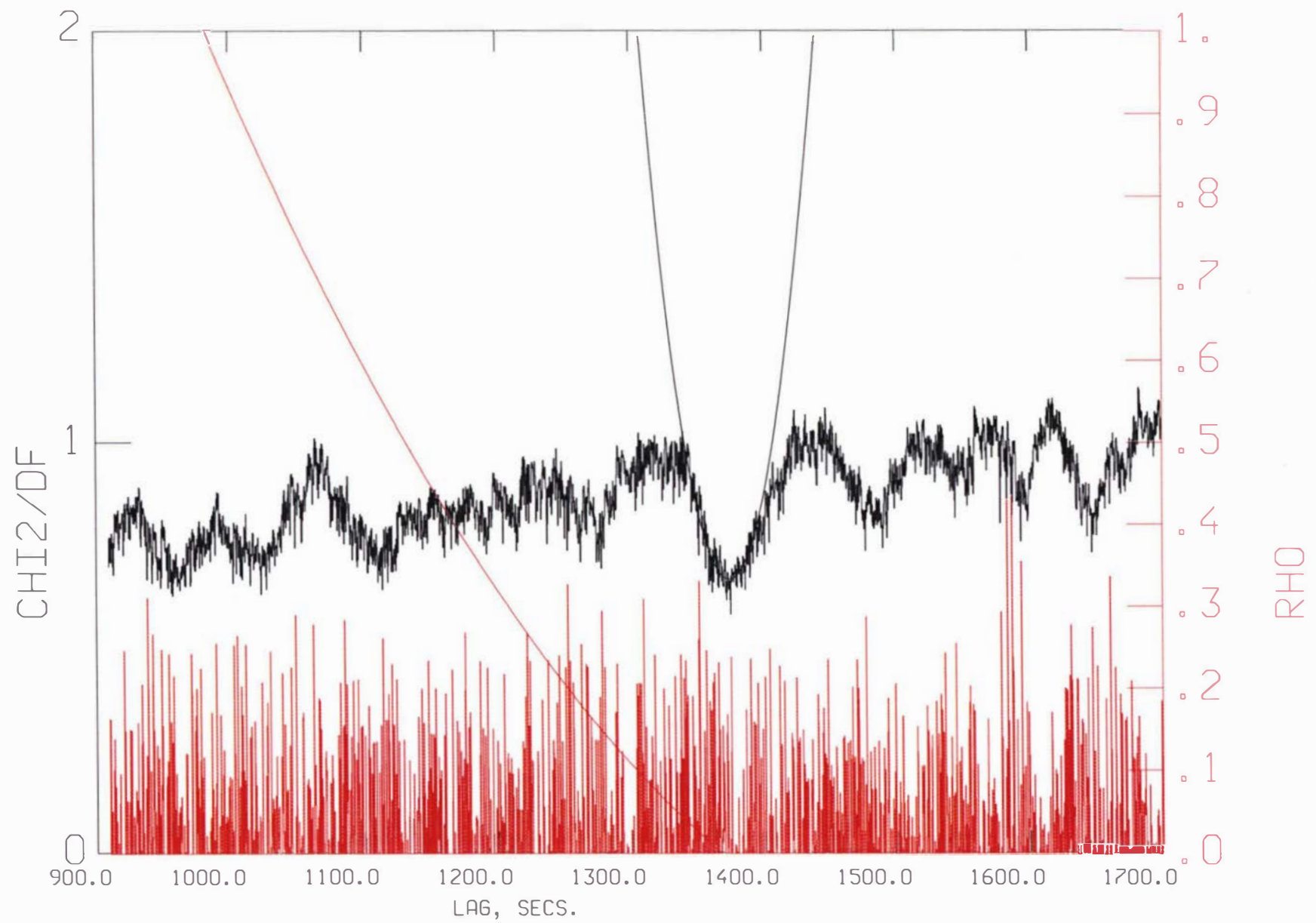
49212.686

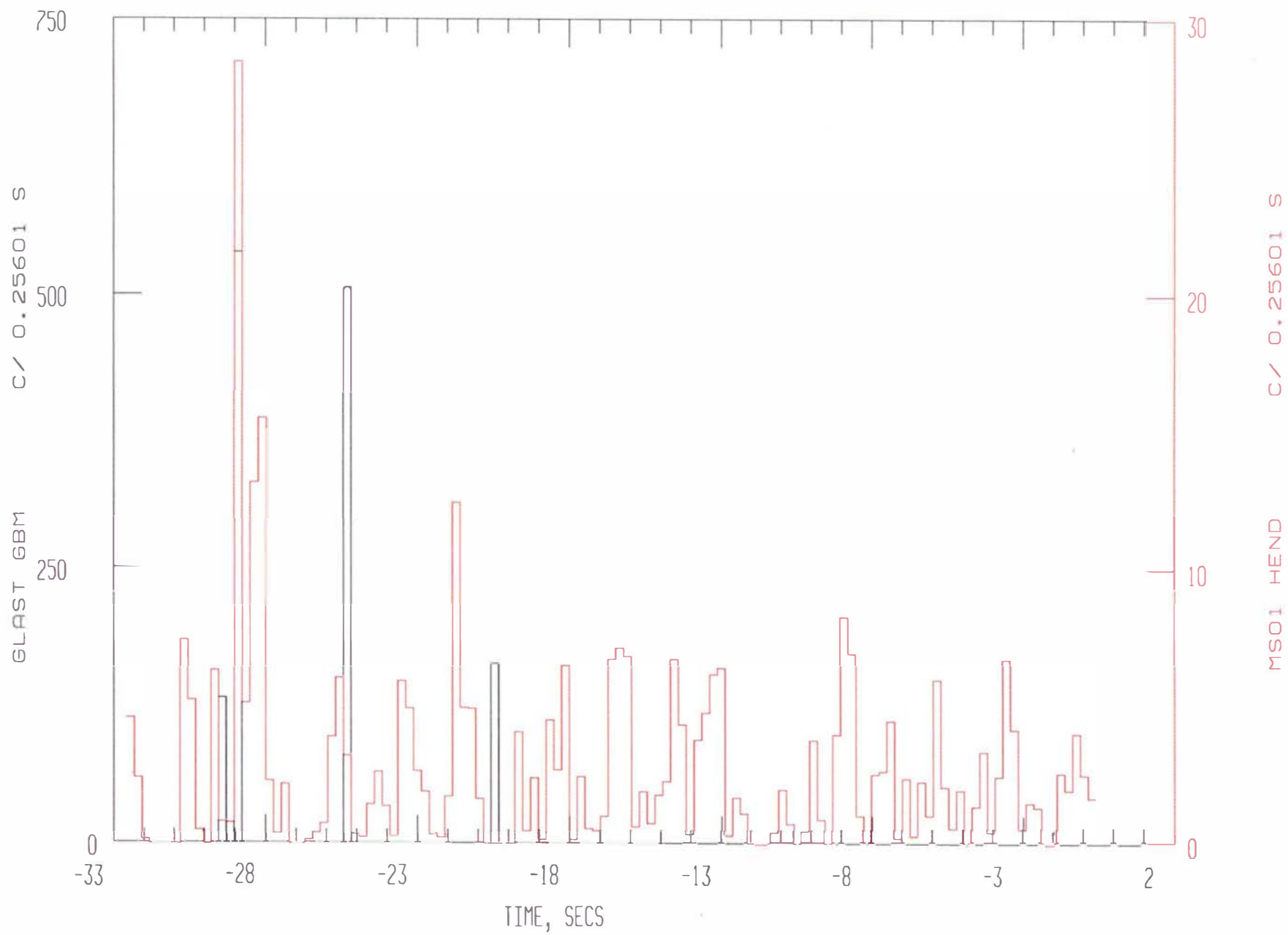
50 - 3000 keV

COUNTS/0.250 S



11/04/12





From ipn-bounces@ssl.berkeley.edu Thu Apr 12 04:41:16 2012
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.142
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.147.252
X-Barracuda-RBL-IP: 128.32.147.252
Date: Thu, 12 Apr 2012 15:41:08 +0400
From: Dmitry Svinkin <svinkin@mail.ioffe.ru>
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
To: "ipn@ssl.berkeley.edu" <ipn@ssl.berkeley.edu>
Cc: Volodymyr Savchenko <Volodymyr.Savchenko@unige.ch>
Subject: Re: [Ipn] BAT lightcurve for trigger at 120410_1402
X-Ucb-Scan-Signature: e5f2628dd0e9b3f93c77a845aa9b01dlca0eda98
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear colleagues,

This burst wasn't detected by Konus-Wind in trigger mode.

Sorry for the delayed response, I am out of the office.

Dmitry

On 12.04.2012 14:58, Kevin Hurley wrote:

> Dear Jay,

>

> We don't seem to have it on MESSENGER. Odyssey might have a weak
> detection, but I can't tell for sure (on travel).

> Kevin

>

> Jay Cummings wrote:

>> There is a possible source, <1% coded, on the edge of a BAT image.

>>

>> RA = 112.349 Dec=-8.793

>>

>> The coding is so extreme that I think it is not reliable enough to request a

>>

>> On 4/11/12 7:09 AM, Volodymyr Savchenko wrote:

>>

>>> Dear colleagues,

>>>

>>> This burst is quite bright in the SPI-ACS (though it was not detected
>>> automatically).

>>>

>>> Given also GBM and BAT detections could the triangulation be appropriate?..

>>>

>>> http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=201

>>>

>>> Best Regards

>>> Volodymyr

>>>

>> On 10/04/12 23:43, palmer+automatic_lightcurve@lanl.gov wrote:

>>

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

>>>>

>>>>

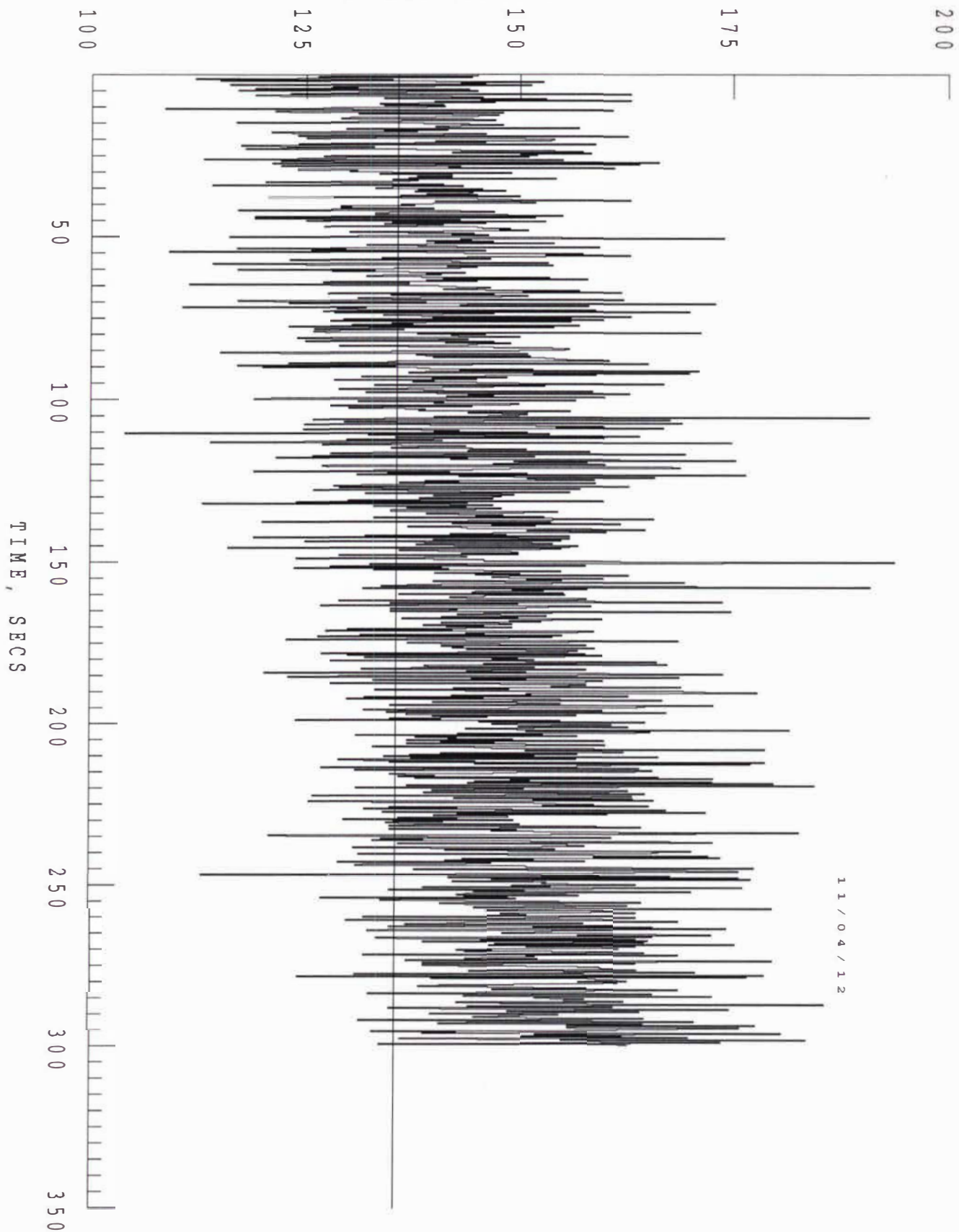
>>>>

HESSI

10/04/12 50370.000 (INTEGRAL_20120410_50520)

25- 150 keV

COUNTS/0.250 S



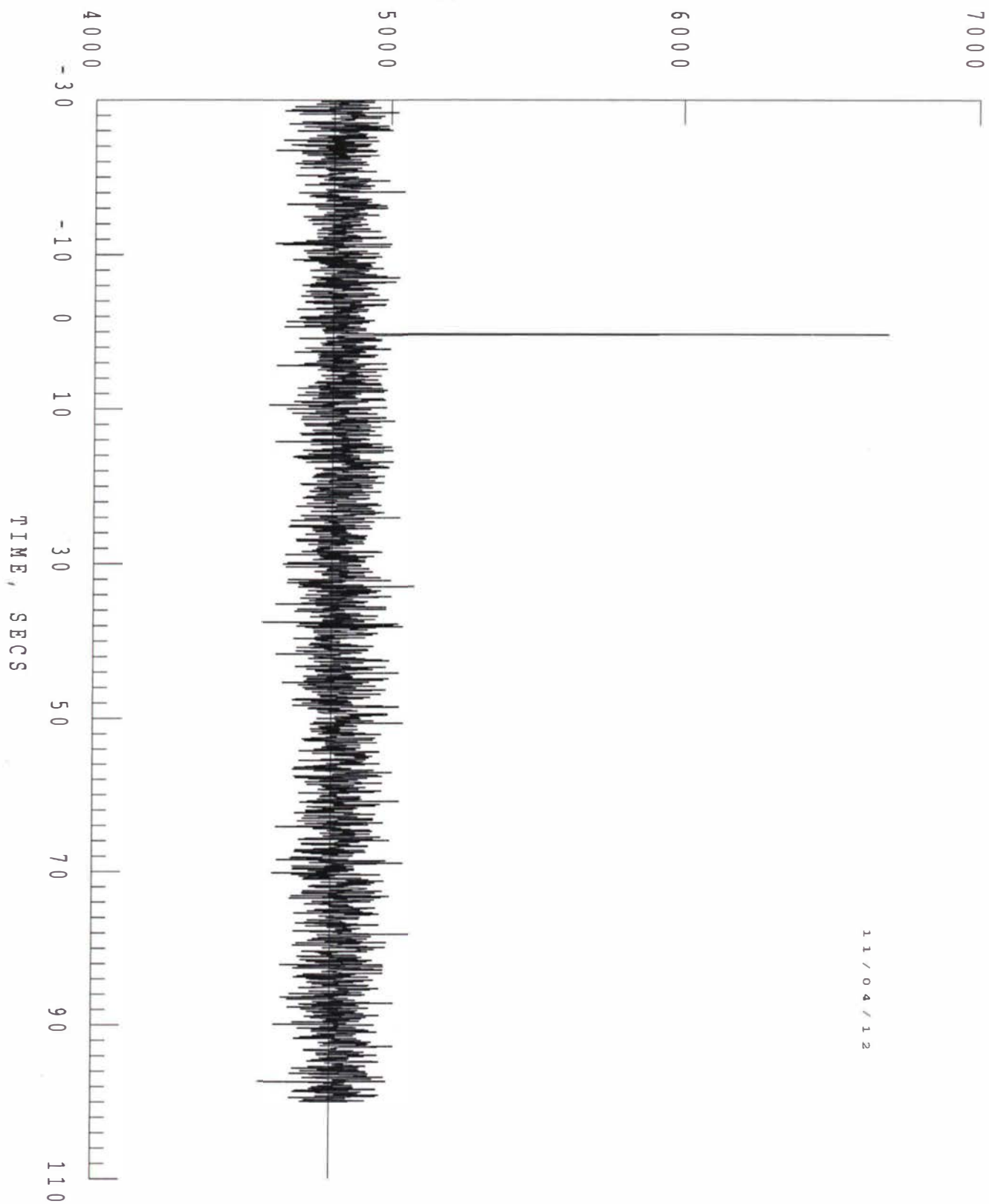
INTEGRAL

10/04/12

50520.184

100-10000 keV

COUNTS/0.050 S



11/04/12

Subject: [Ipn] BAT lightcurve for trigger at 120410_1402

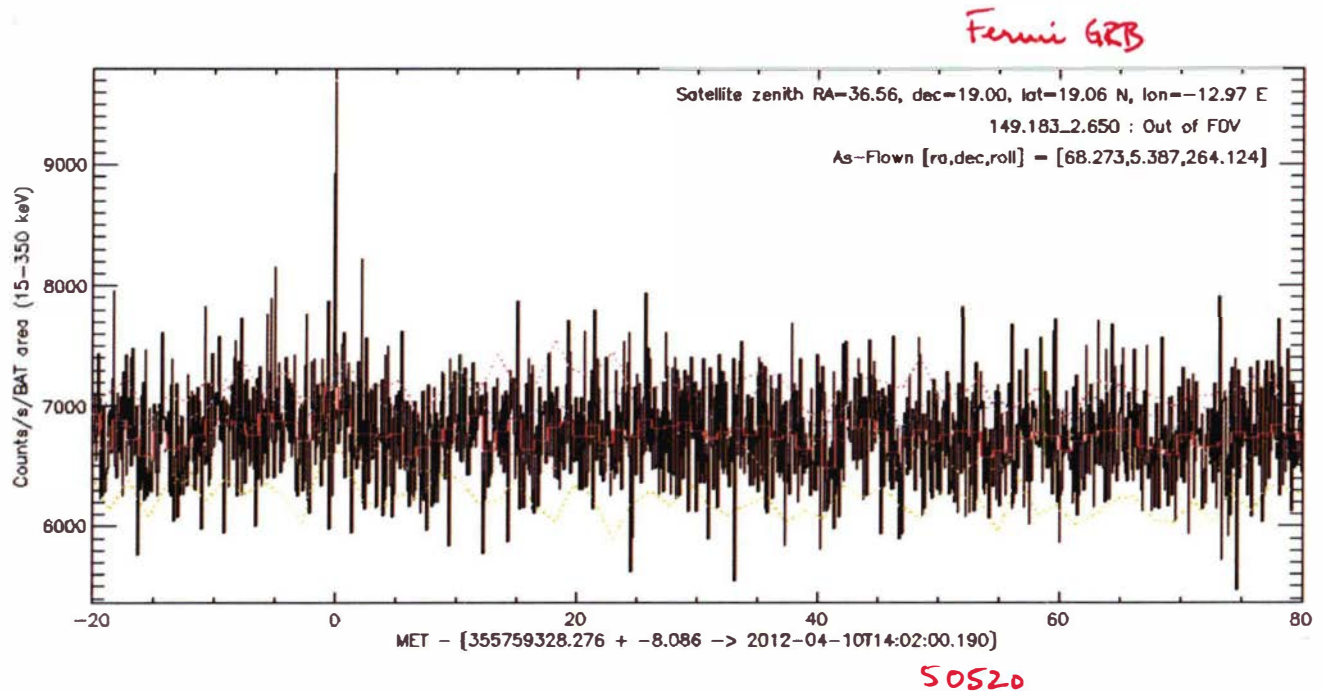
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/10/2012 2:43 PM

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/120410_1402.png



```
% /usr/local/bin/swinfo -o 355759328.276 -s 149.183_2.650
Time(MET + UTC -> UT):      355759328.276 + -8.086 -> 2012-04-10T14:02:00.190
Swift Zenith(RA,dec):       36.56, 19.00
Swift Location(lon,lat,alt): -12.97 E, 19.06 N, 588 km
Obs Sequence Number:        00091444003
Obs Target Name:             3C120
Obs Date and Times:          2012-04-10 13:51:53 - 14:14:50
Obs Pointing(ra,dec,roll):   68.273, 5.387, 264.12
149.183_2.650_imageloc (boresight_dist, angle): (81, 94)
149.183_2.650_exposure (cm^2 cos adjusted): 0
149.183_2.650_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

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

Attachments:

/tmp/120410_1402.png	19.8 KB
/tmp/120410_1402_bat64ms_ipn	87.1 KB

GLAST

10/04/12

50520.192

14:02:00

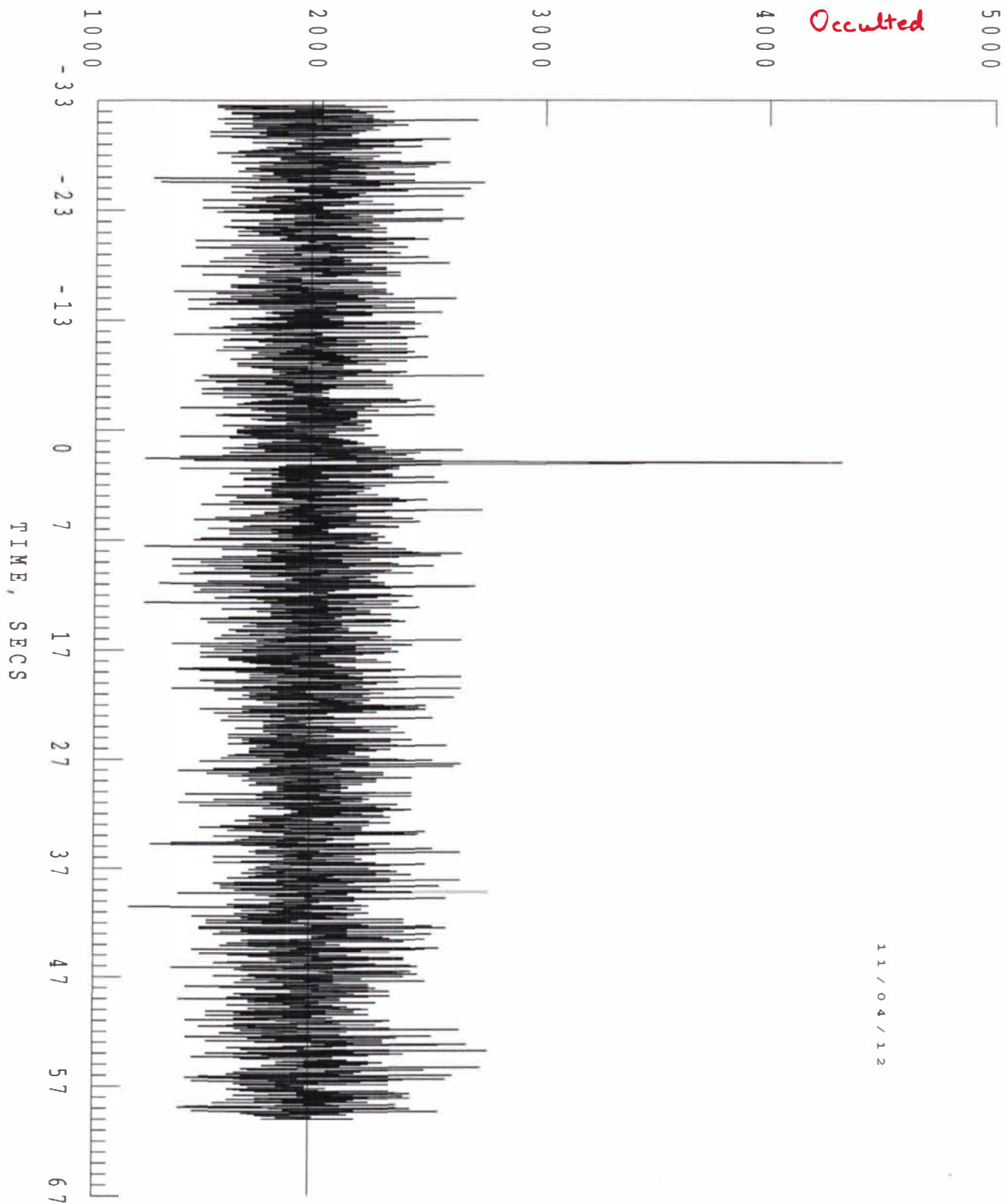
26 - 293 keV

159.63, -17.0, 8.6

COUNTS/0.032 S

$\angle \text{GRB}/n = 41.7^\circ$

Occulted



From vxw@capella2.gsfc.nasa.gov Tue Apr 10 16:12:21 2012
X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.144
X-Barracuda-Apparent-Source-IP: 128.183.96.236
X-Barracuda-RBL-IP: 128.183.96.236
Date: Tue, 10 Apr 2012 19:12:30 -0400
From: Bacodine <vxw@capella2.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
Subject: GCN/SWIFT BAT LIGHTCURVE
X-Ucb-Scan-Signature: 6adca0571a214e1e1a615a103780e985aaf40e39
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN/SWIFT NOTICE
NOTICE_DATE: Tue 10 Apr 12 23:12:28 UT
NOTICE_TYPE: Swift-BAT GRB Lightcurve
TRIGGER_NUM: 519868, Seg Num: 0
GRB_RA: 272.153d {+18h 08m 37s} (J2000),
272.336d {+18h 09m 21s} (current),
271.409d {+18h 05m 38s} (1950)
GRB_DEC: -20.410d {-20d 24' 35"} (J2000),
-20.407d {-20d 24' 26"} (current),
-20.419d {-20d 25' 07"} (1950)
GRB_DATE: 16027 TJD; 101 DOY; 12/04/10
GRB_TIME: 83313.20 SOD {23:08:33.20} UT
TRIGGER_INDEX: 10413
GRB_PHI: 174.55 [deg]
GRB_THETA: 51.23 [deg]
DELTA_TIME: 30.00 [sec]
TRIGGER_DUR: 0.064 [sec]
COLN_STATUS: 0x10D
RATE_SIGNIF: 109.45 [sigma]
IMAGE_SIGNIF: 16.31 [sigma]
LC_URL: sw00519868000msb.lc
SUN_POSTN: 19.85d {+01h 19m 24s} +8.37d {+08d 22' 23"}
SUN_DIST: 109.26 [deg] Sun_angle= 7.2 [hr] (West of Sun)
MOON_POSTN: 258.53d {+17h 14m 07s} -21.97d {-21d 58' 04"}
MOON_DIST: 12.96 [deg]
MOON_ILLUM: 77 [%]
GAL_COORDS: 9.99, -0.23 [deg] galactic lon,lat of the burst (or transient)
ECL_COORDS: 272.02, 3.01 [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: SGR1806-20, delt
COMMENTS: This is not a GRB.
COMMENTS: This trigger occurred at longitude,latitude = 98.26,-14.02 [deg]

From gcncirc@capella2.gsfc.nasa.gov Tue Apr 10 16:23:21 2012
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
"-Barracuda-Apparent-Source-IP: 128.183.96.236
-Barracuda-RBL-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: Trigger 519868: Swift detection of SGR1806-20
To: khurley@ssl.berkeley.edu
Date: Tue, 10 Apr 2012 19:23:09 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Ucb-Scan-Signature: f01e7aee998d76c05bee8007b0dc4d6ca8a3d1ad
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 13237
SUBJECT: Trigger 519868: Swift detection of SGR1806-20
DATE: 12/04/10 23:23:06 GMT
FROM: Scott Barthelmy at NASA/GSFC <scott@milkyway.gsfc.nasa.gov>

S. D. Barthelmy (GSFC), P. D'Avanzo (INAF-OAB),
N. Gehrels (NASA/GSFC), E. A. Hoveston (PSU),
C. B. Markwardt (NASA/GSFC) and B. Sbarufatti (INAF-OAB/PSU) report on
behalf of the Swift Team:

At 23:08:33 UT, the Swift Burst Alert Telescope (BAT) triggered and
located an outburst from SGR1806-20 (trigger=519868). Swift did not slew because
of the Moon observing constraint. The BAT on-board calculated location is
RA, Dec 272.153, -20.410 which is

RA(J2000) = 18h 08m 37s
Dec(J2000) = -20d 24' 35"

with an uncertainty of 3 arcmin (radius, 90% containment, including
systematic uncertainty). The BAT light curve shows a single spike
with a duration of about 0.2 sec. The peak count rate
was ~13,000 counts/sec (15-350 keV), at ~0 sec after the trigger.

Due to an observing constraint Swift will be unable to observe this
field with the XRT and UVOT instruments until 12 April at 14:00 UT.

From gcncirc@capella2.gsfc.nasa.gov Wed Apr 11 05:36:23 2012
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.147
-Barracuda-Apparent-Source-IP: 128.183.96.236
-Barracuda-RBL-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: SGR1806-20, Swift-BAT refined analysis (Trigger 519868)
To: khurley@ssl.berkeley.edu
Date: Wed, 11 Apr 2012 08:36:05 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Ucb-Scan-Signature: 78c8a9907a3d642e0cde6e9753b040074f2f4c17
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 13239
SUBJECT: SGR1806-20, Swift-BAT refined analysis (Trigger 519868)
DATE: 12/04/11 12:36:01 GMT
FROM: Scott Barthelmy at NASA/GSFC <scott@lheamail.gsfc.nasa.gov>

S. D. Barthelmy (GSFC), W. H. Baumgartner (GSFC/UMBC), J. R. Cummings (GSFC/UMBC)
E. E. Fenimore (LANL), N. Gehrels (GSFC), H. A. Krimm (GSFC/USRA),
C. B. Markwardt (GSFC), D. M. Palmer (LANL), T. Sakamoto (GSFC/UMBC),
G. Sato (ISAS), M. Stamatikos (OSU), J. Tueller (GSFC), T. N. Ukwatta (MSU)
(i.e. the Swift-BAT team):

Using the data set from T-239 to T+963 sec from recent telemetry downlinks,
we report further analysis of the outburst from SGR1806-20 (trigger #519868)
(Barthelmy, et al., GCN Circ. 13237). The BAT ground-calculated position is
A, Dec = 272.163, -20.405 deg, which is
RA(J2000) = 18h 08m 39.1s
Dec(J2000) = -20d 24' 19.0"
with an uncertainty of 1.3 arcmin, (radius, sys+stat, 90% containment).
The partial coding was 16%.

The mask-weighted light curve shows a single spike starting at $\sim T-0.002$ sec,
peaking at $\sim T+0.003$ sec, and ending at $\sim T+0.15$ sec with a tail out to $\sim T+0.4$ sec
T90 (15-350 keV) is 0.77 ± 0.32 sec (estimated error including systematics).

The time-averaged spectrum from T-0.06 to T+0.96 sec is best fit by a simple
power-law model. The power law index of the time-averaged spectrum is
 2.77 ± 0.15 . The fluence in the 15-150 keV band is $5.1 \pm 0.4 \times 10^{-7}$ erg/cm².
The 1-sec peak photon flux measured from T-0.08 sec in the 15-150 keV band
is 10.7 ± 0.9 ph/cm²/sec. All the quoted errors are at the 90% confidence
level.

The results of the batgrbproduct analysis are available at
http://gcn.gsfc.nasa.gov/notices_s/519868/BA/

MS01

10/04/12

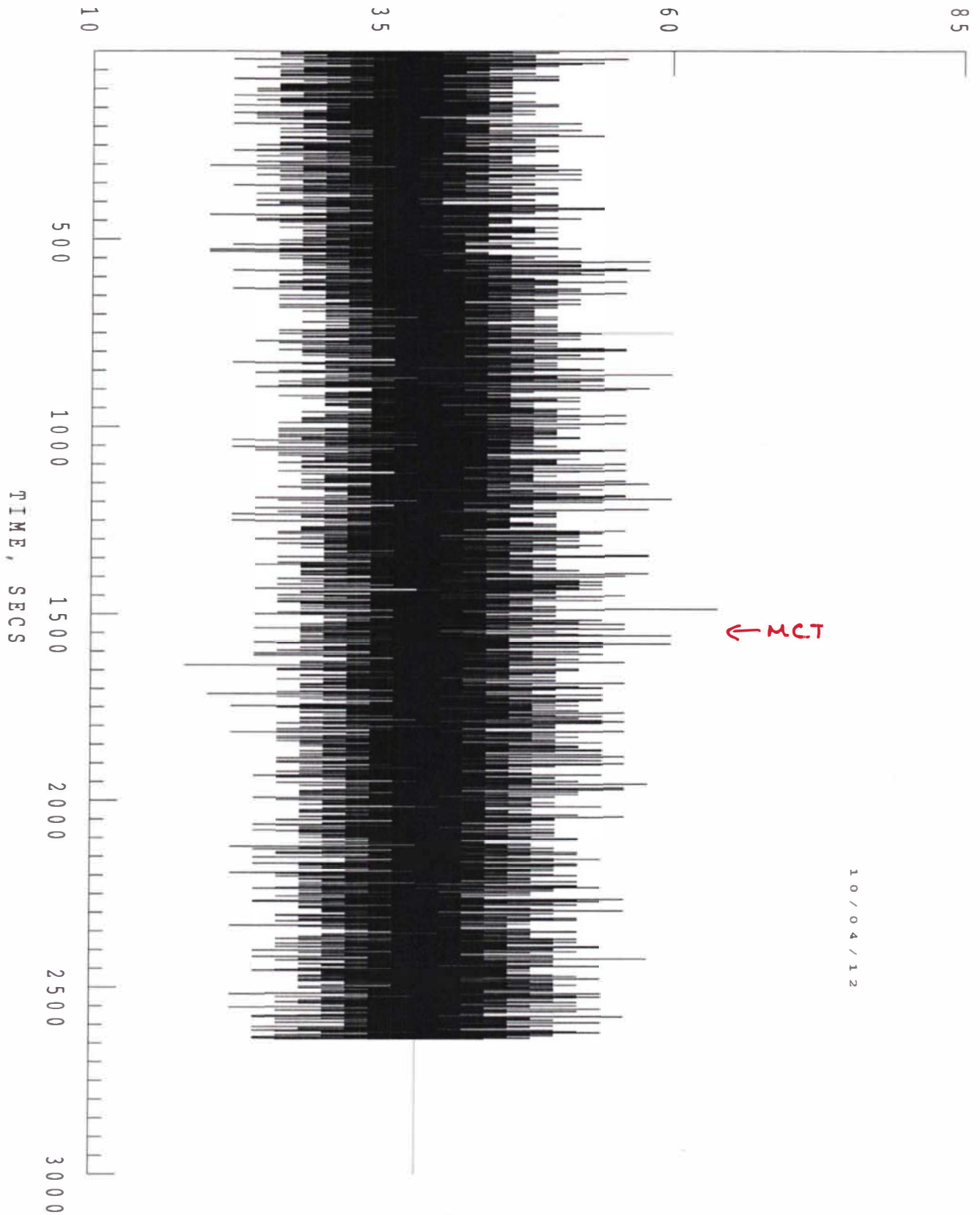
81972.086

50 - 3000 keV

$\angle \text{GRB}/O/M = 149.5^\circ$

Unocculted

COUNTS/0.250 S

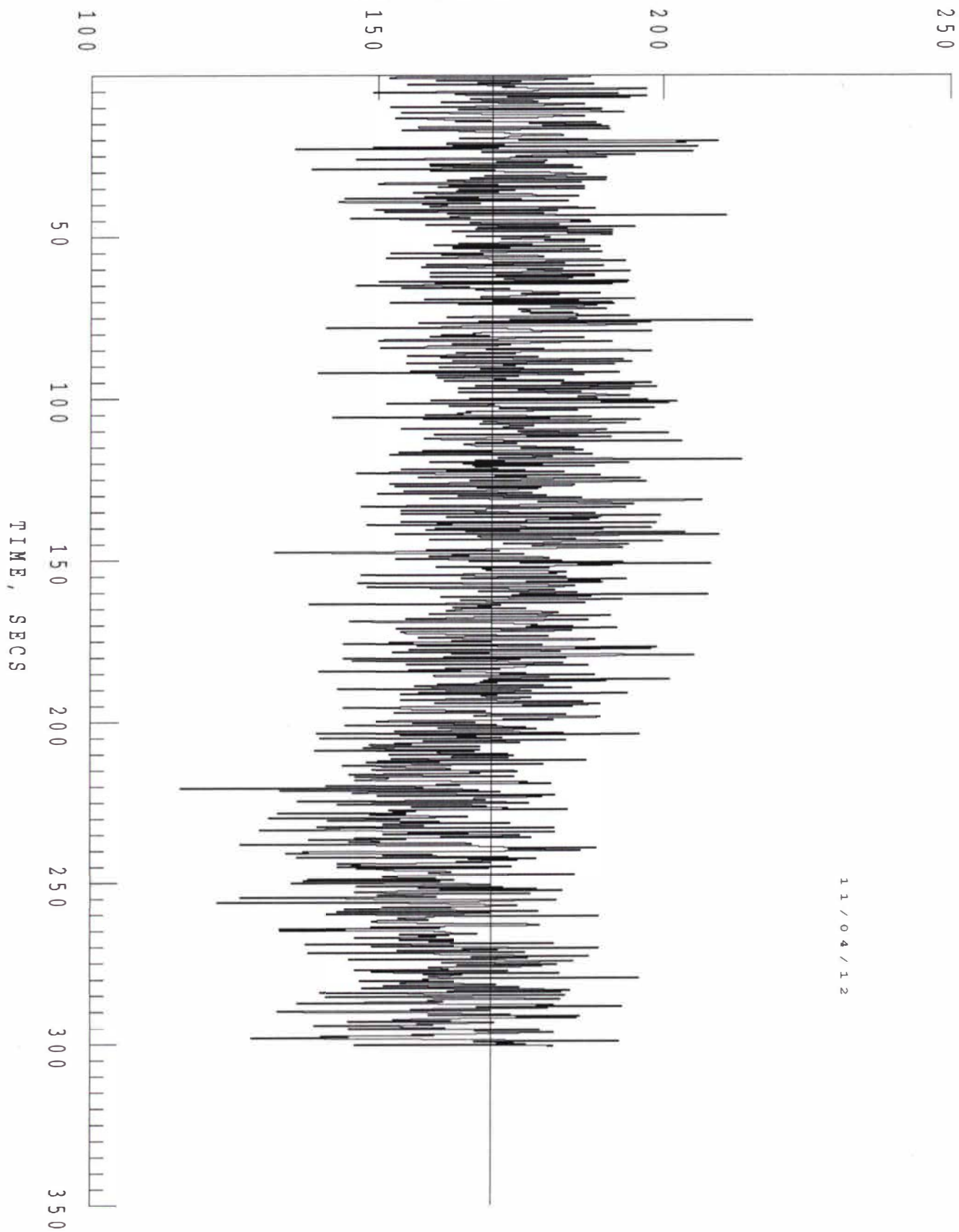


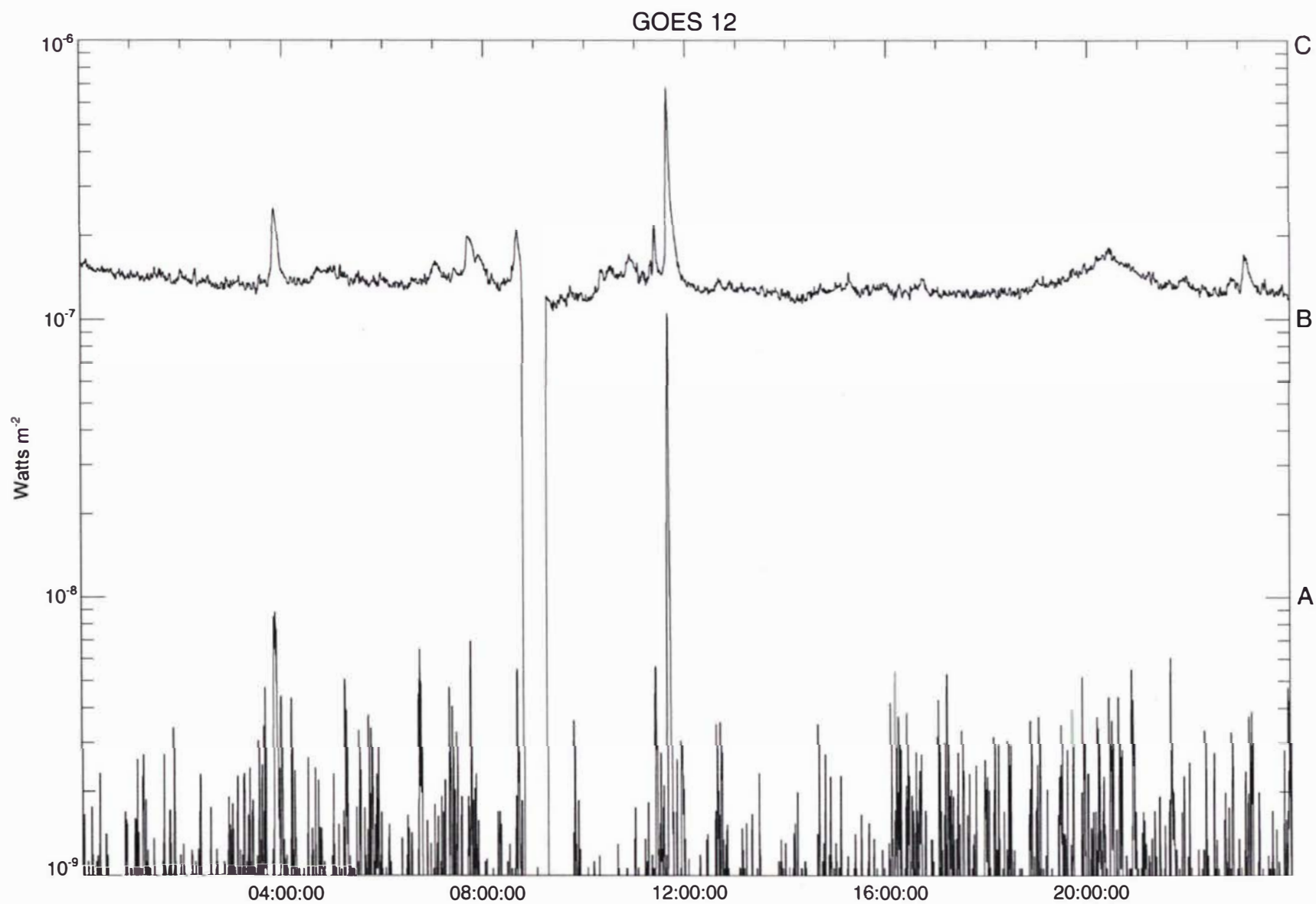
HESSI

10/04/12 83162.000 (SWIFT_20120410_83313)

25- 150 keV

COUNTS/0.250 S





Data Start: 12/04/10, 0000:10

Plot created: 12/04/13, 0839

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: Apr 8 2013

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

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

2. AGILE Data

- ☐ 1 second timing error corrected?

3. MESSENGER Data

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

4. For Konus events

- ☒ Konus ecliptic latitude used with latest calibration?

5. For Odyssey events

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

6. For 3 or More Spacecraft events

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

7. For INTEGRAL events

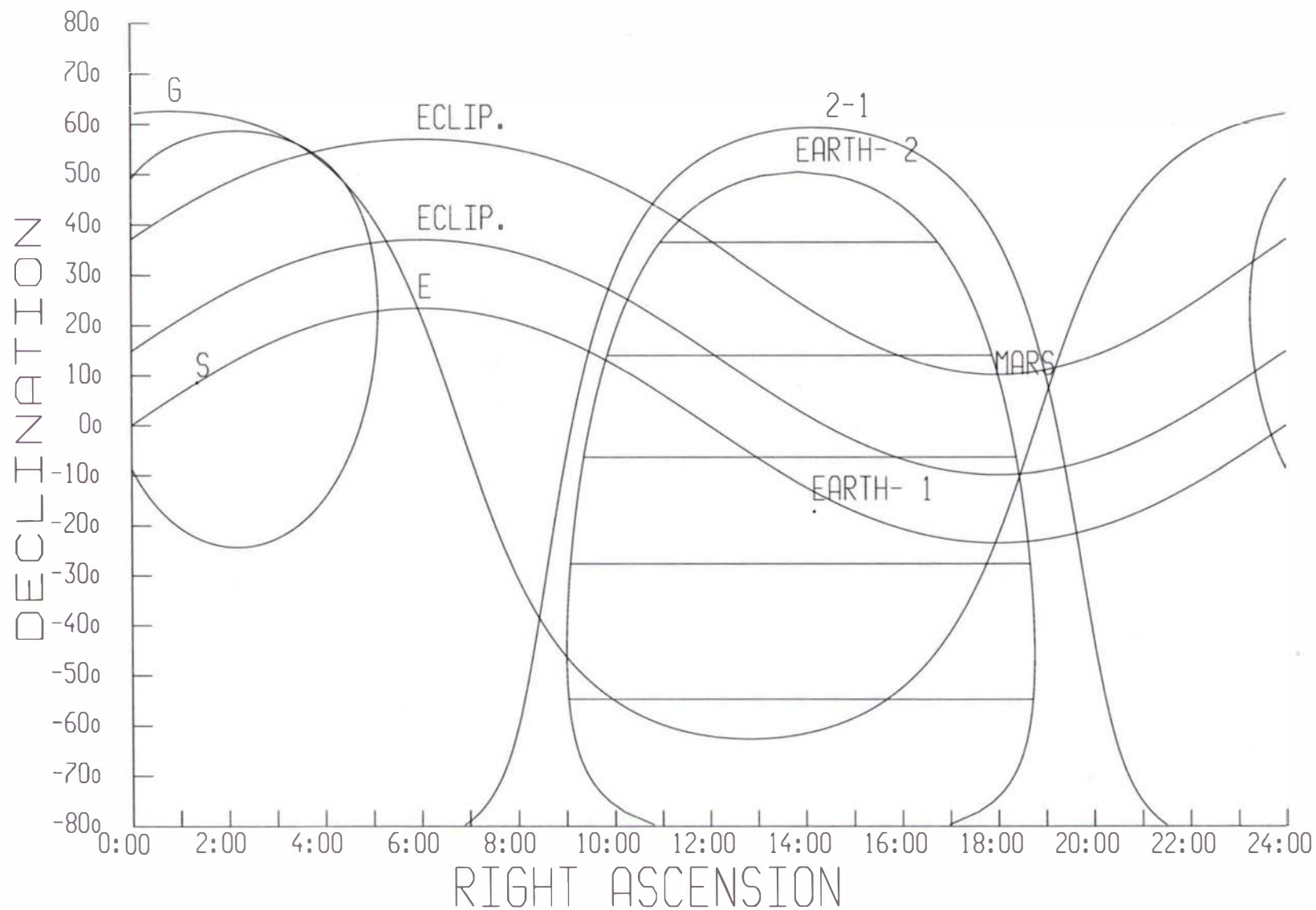
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

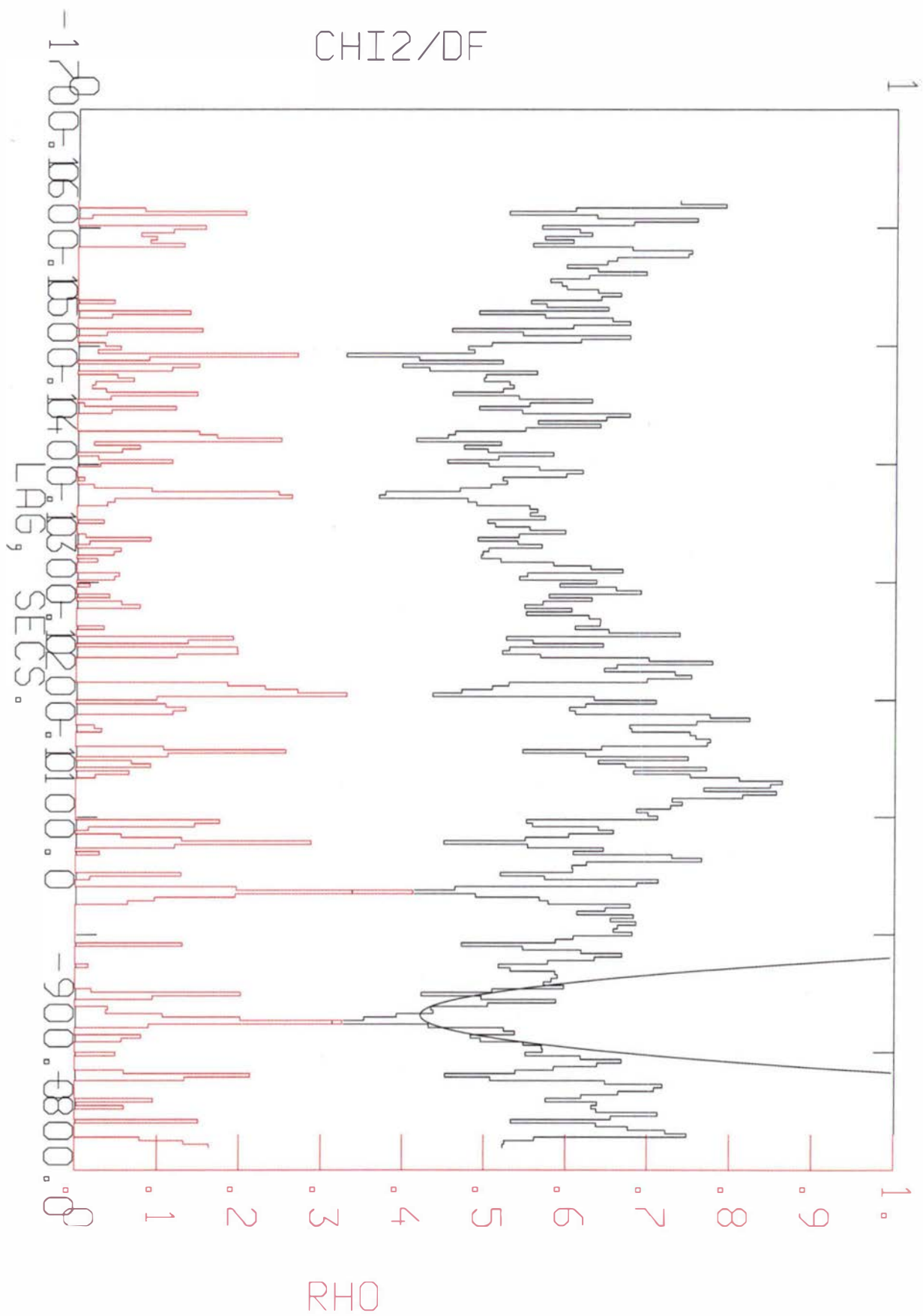
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

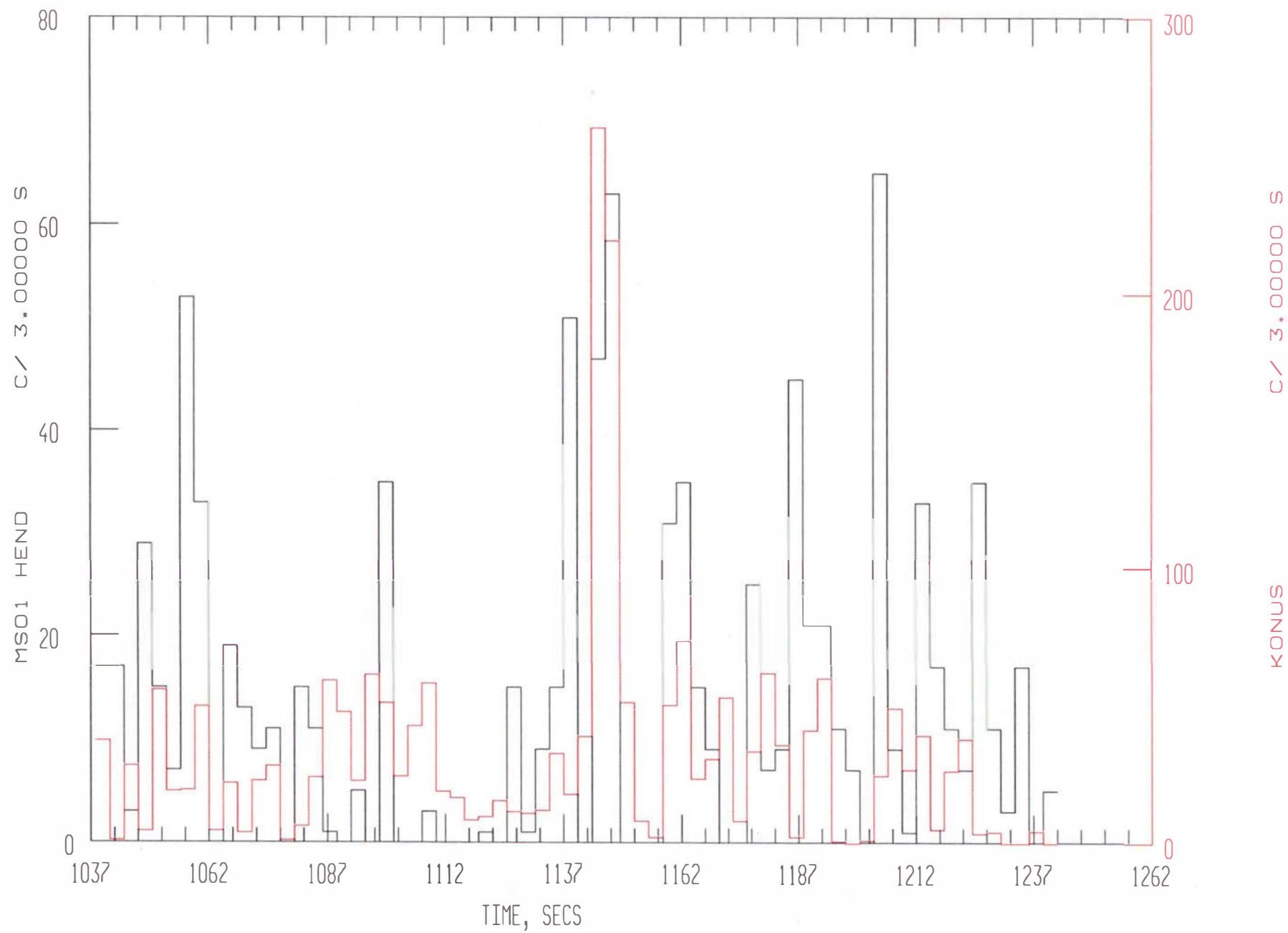
EVENT OF APR 11, 2012 12:03

08/04/2013

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







KONUS

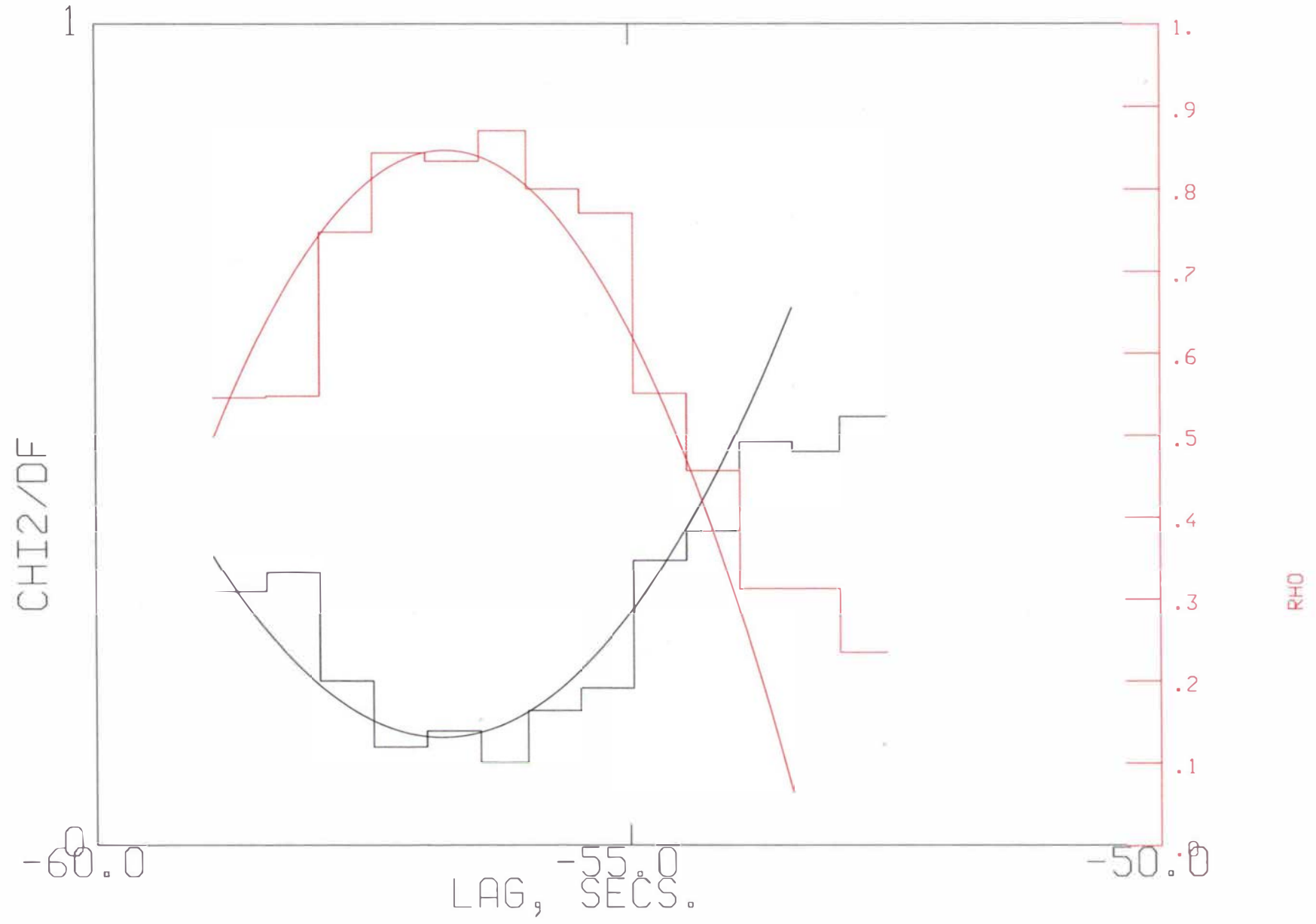
-HESSI

CORRELATION

11/04/12

43414.945

8/ 4/13



KONUS

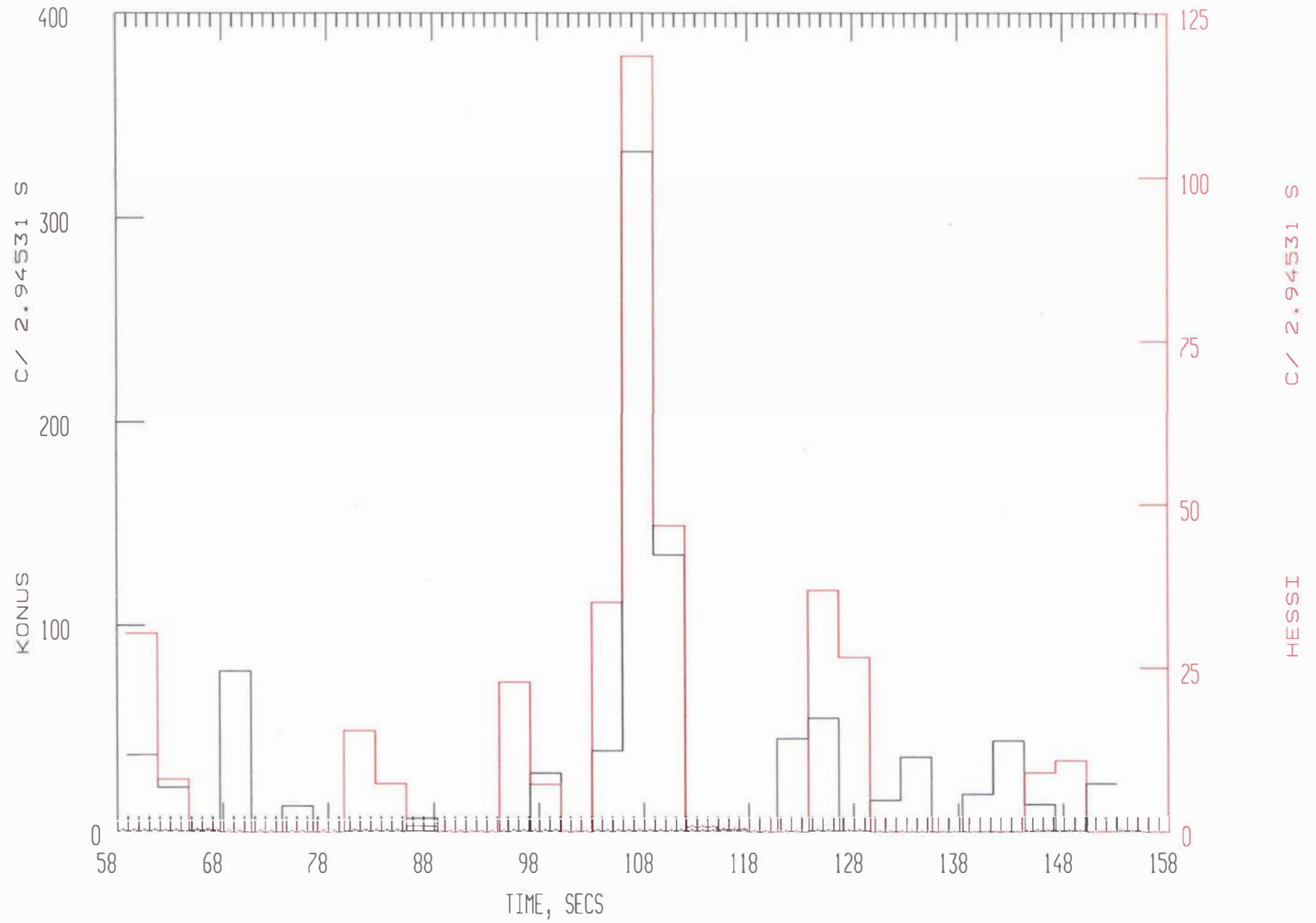
-HESSI

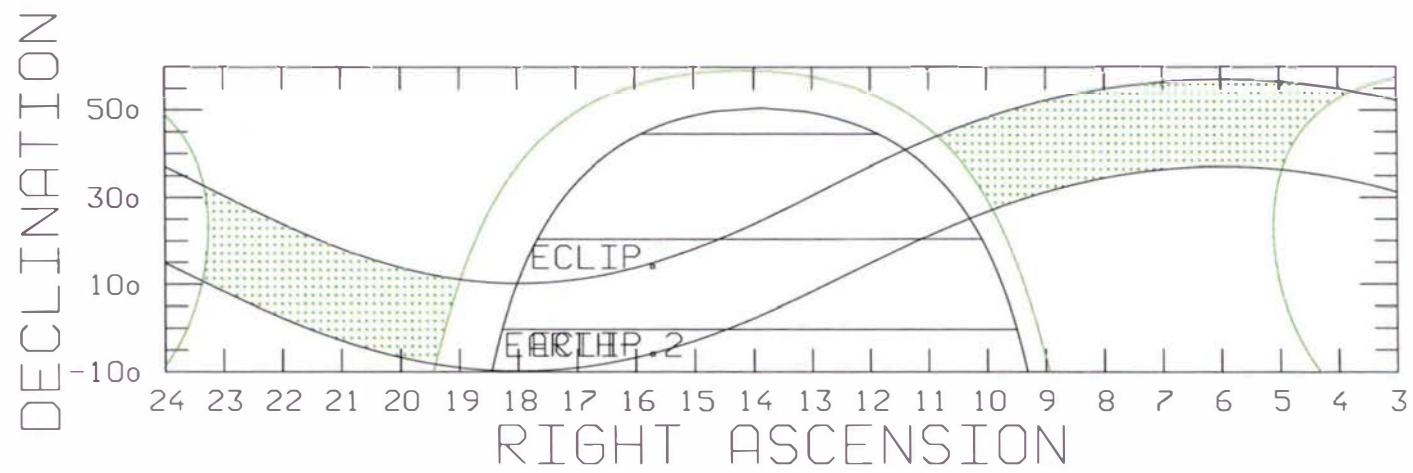
CORRELATION

11/04/12

43414.945

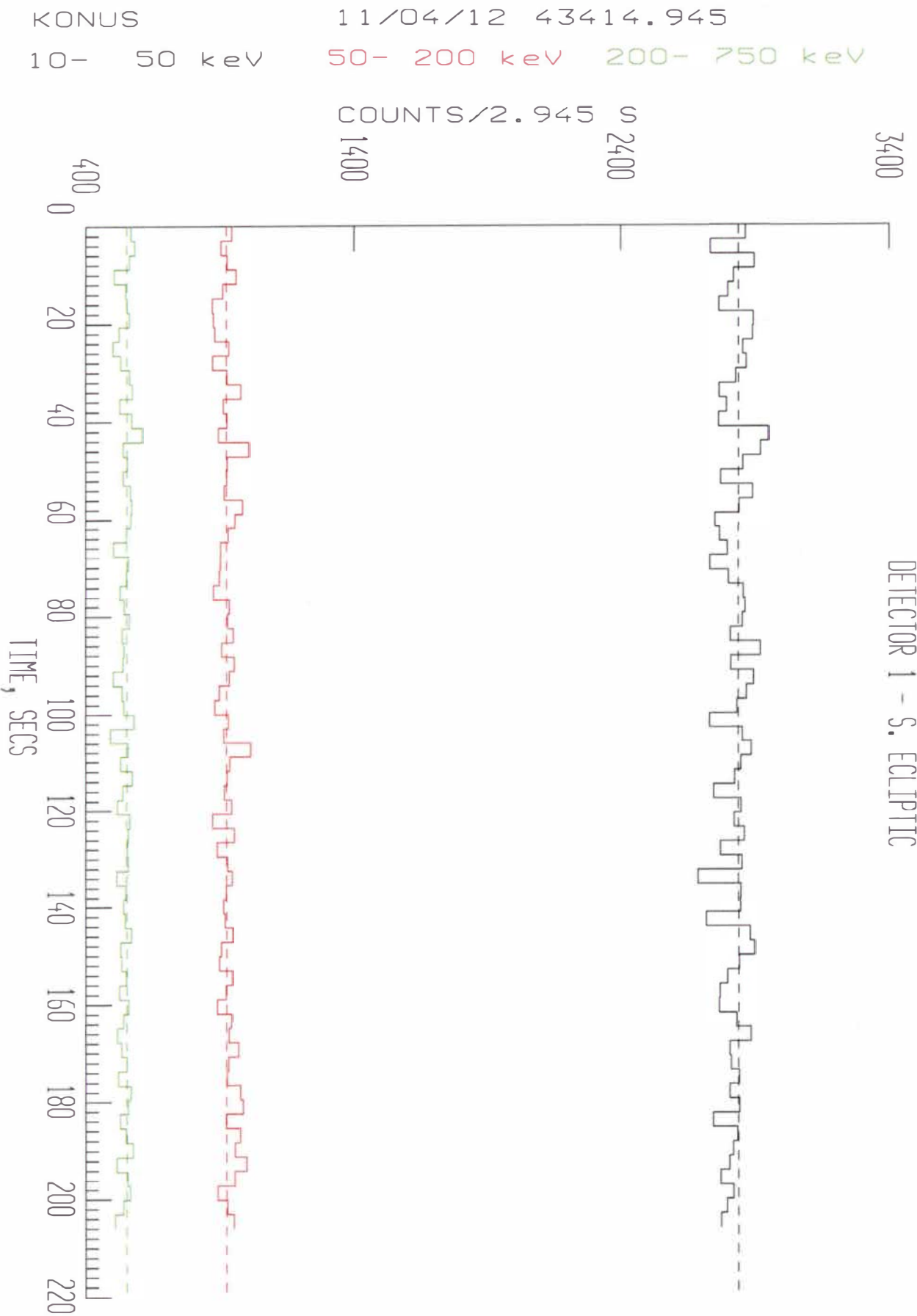
8/ 4/13





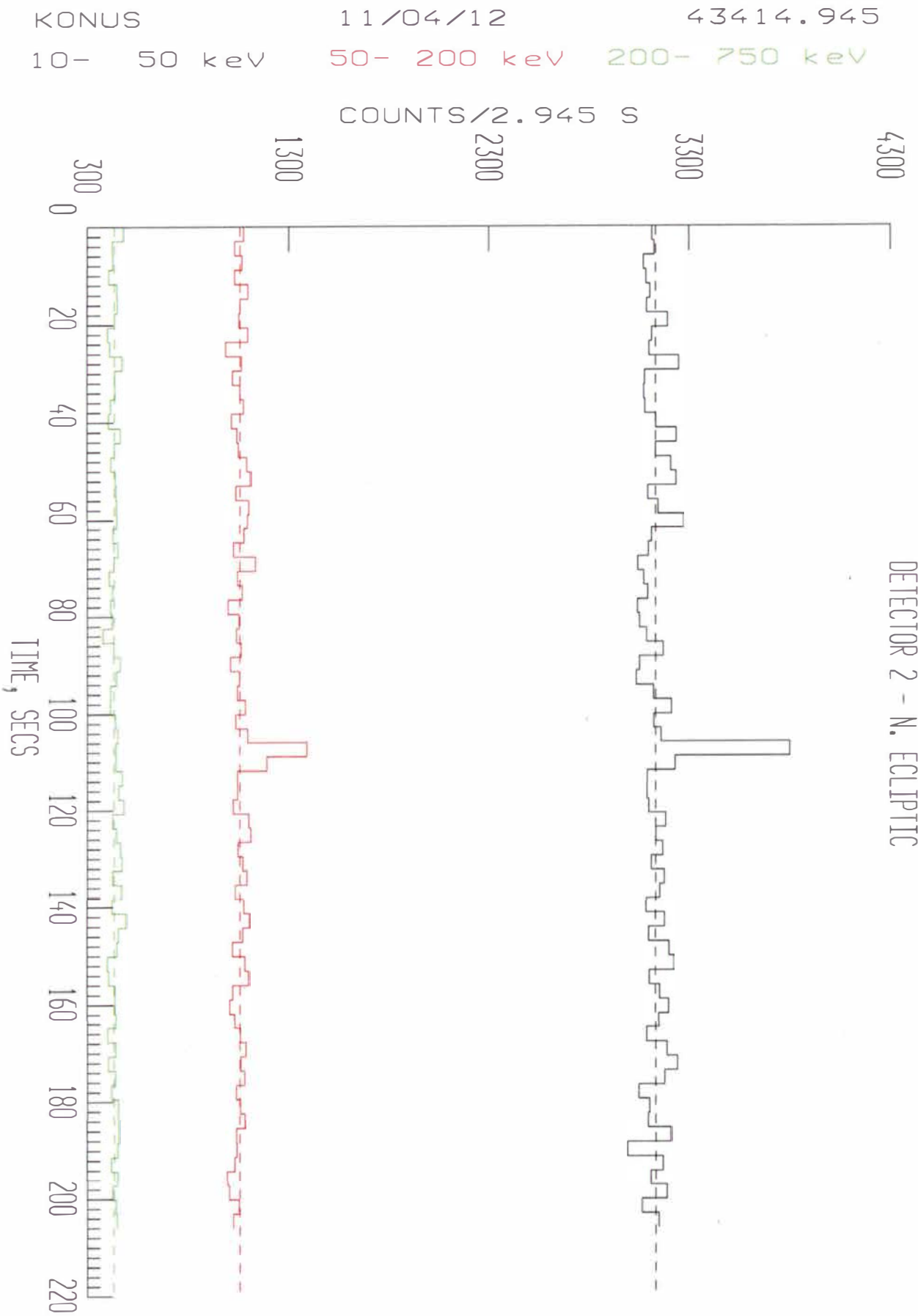
08/04/2013

DETECTOR 1 - S. ECLIP TIC



08/04/2013

DETECTOR 2 - N. ECLIPITIC



MS01

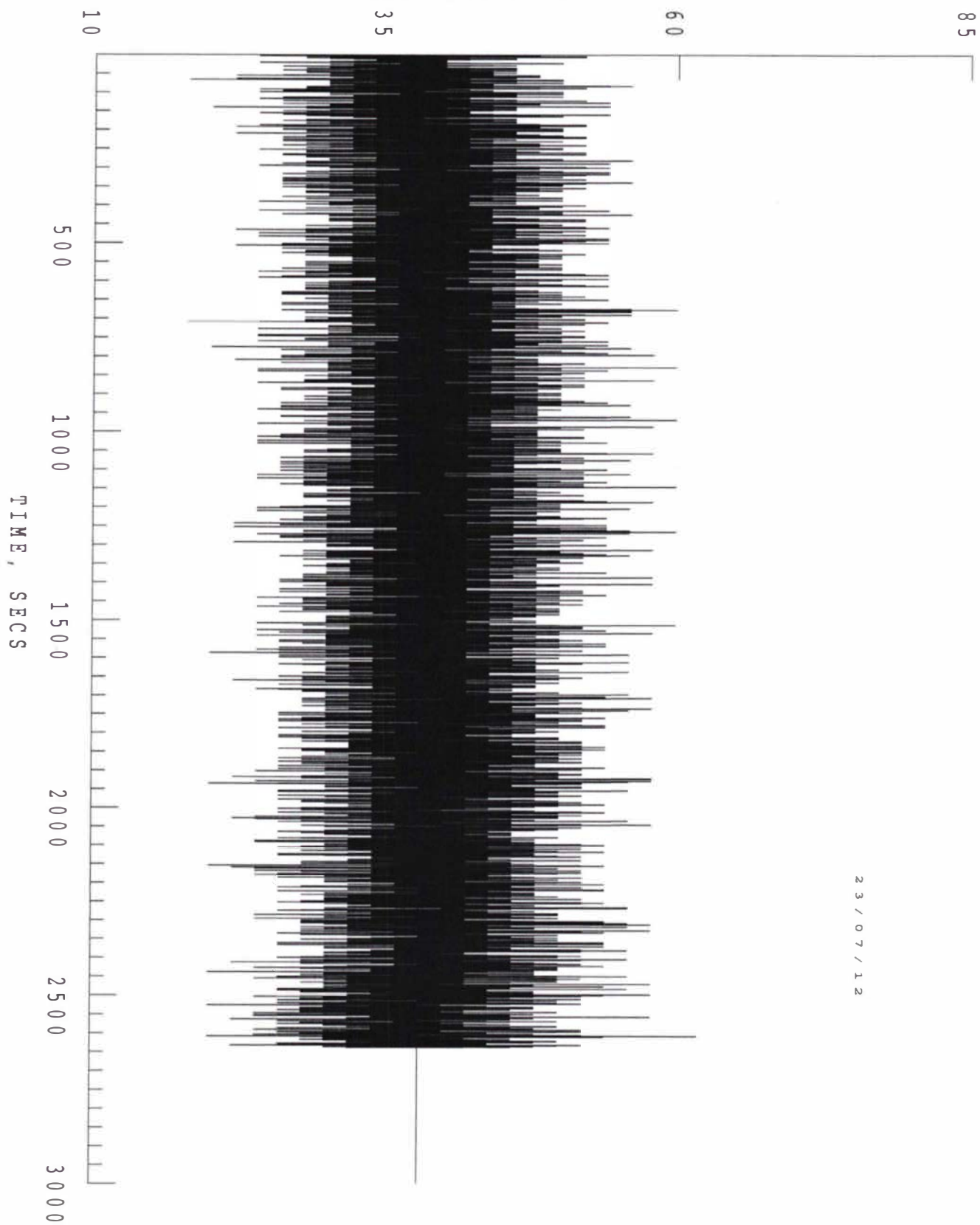
11/04/12

42191.243

A

50 - 3000 keV

COUNTS/0.250 S



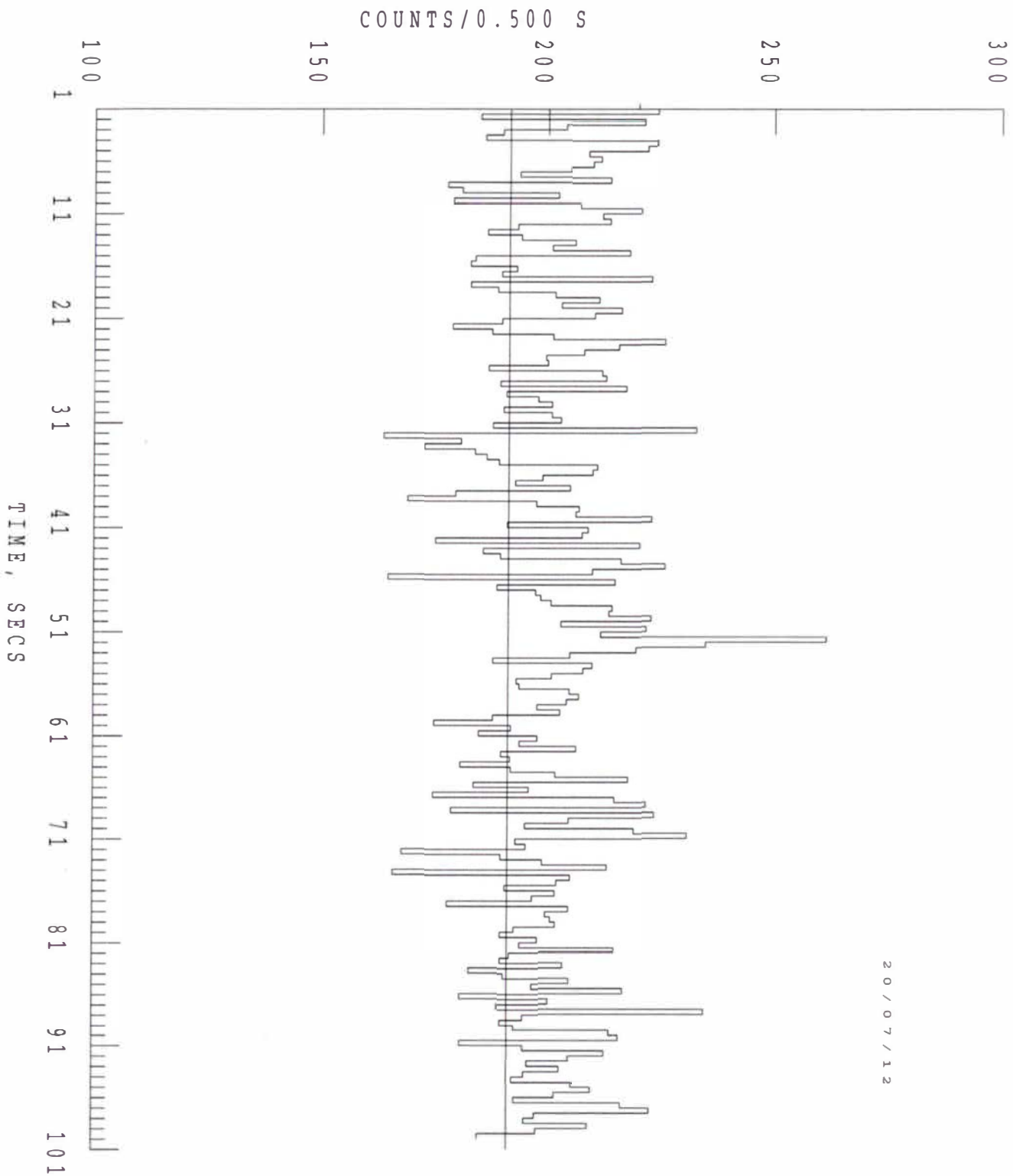
23 / 07 / 12

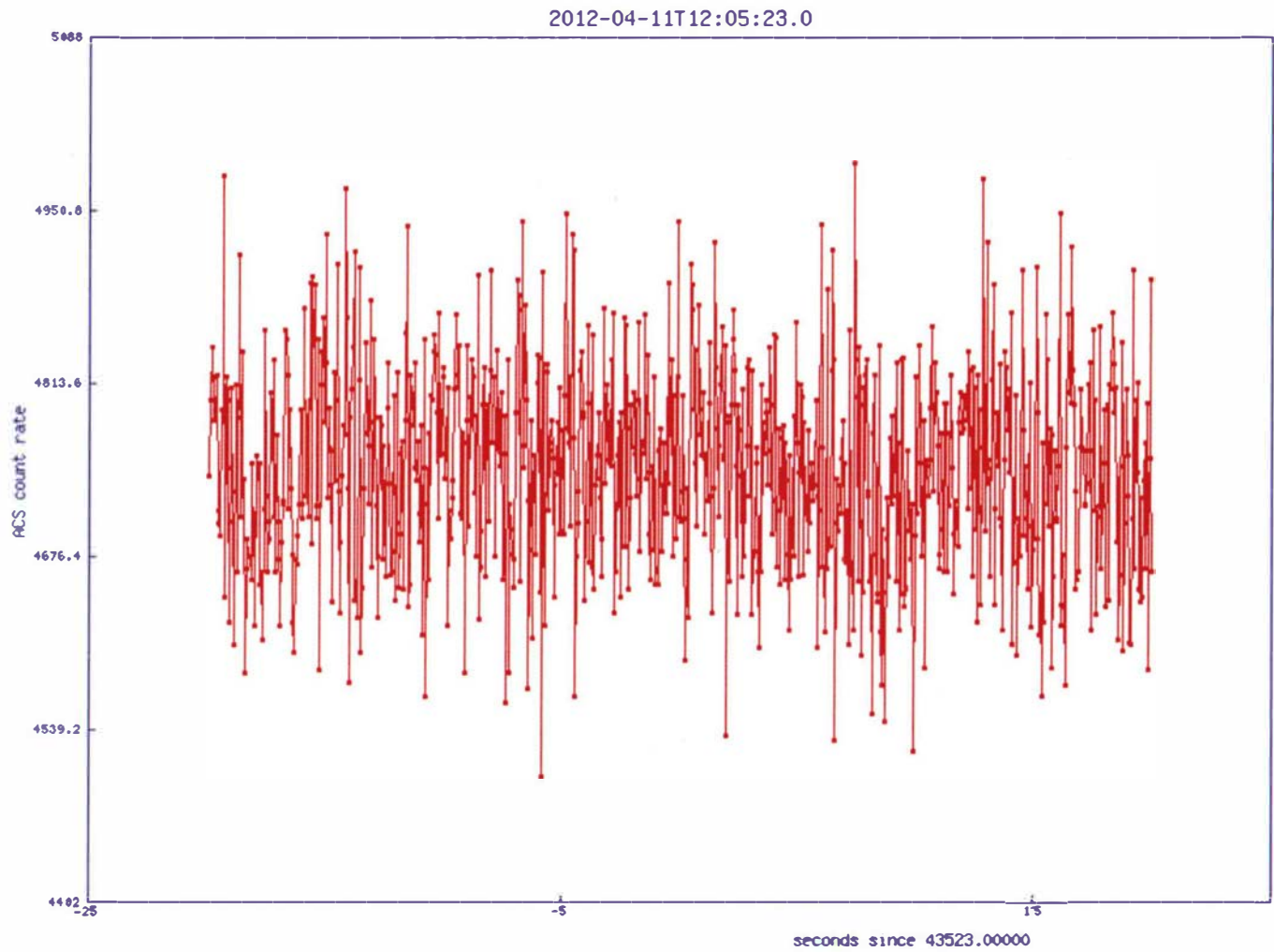
HESSI

11/04/12 43473.000 (KONUS_RI_20120411_43523)

A

25- 150 keV





INTEGRAL

11/04/12

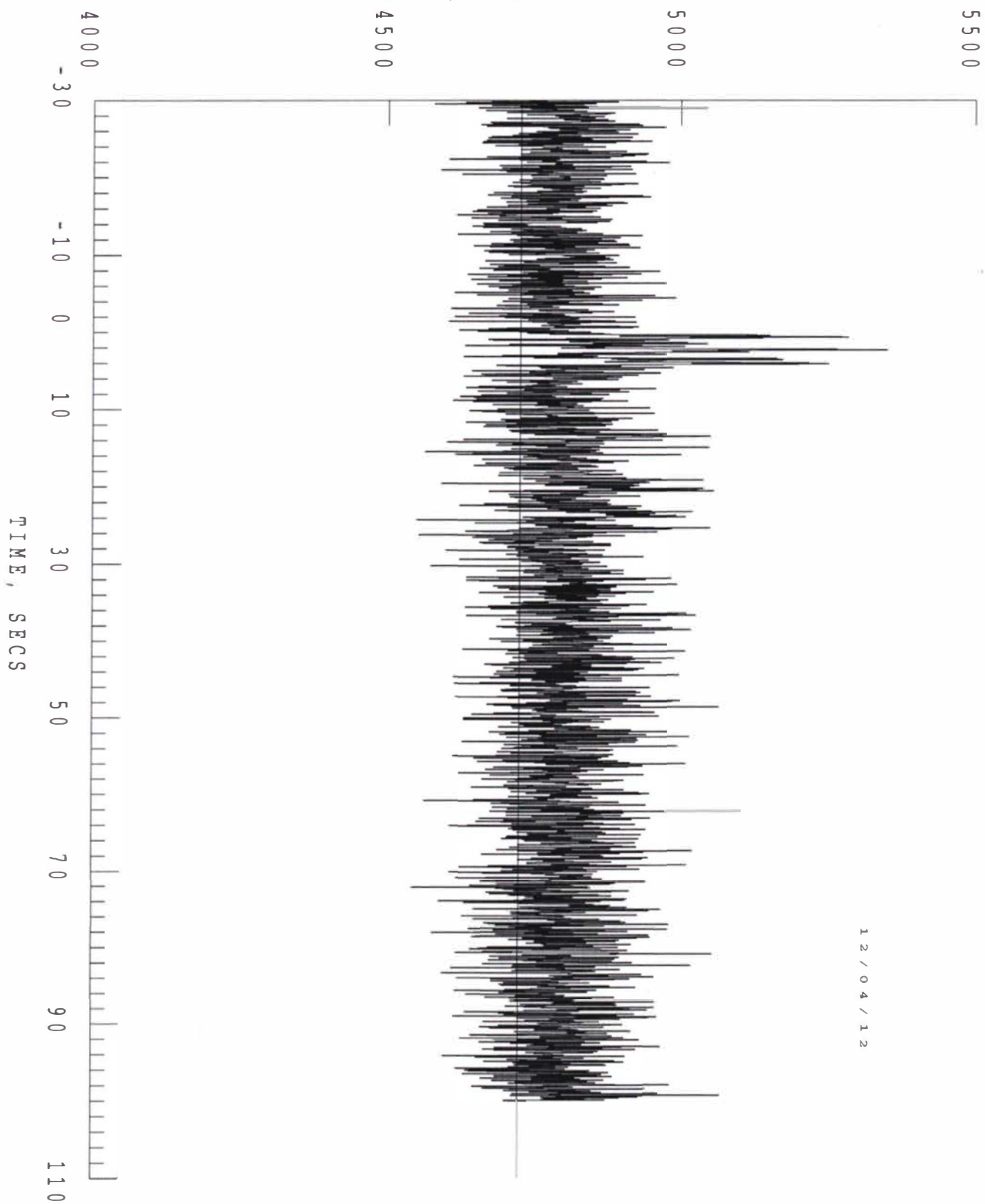
79945.007

22:12:25

B

100-10000 keV

COUNTS/0.050 S



B

From williams@gammaburst.ssl.berkeley.edu Thu Apr 12 09:08:33 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.145
~Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Thu, 12 Apr 2012 08:59:46 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_INTEGRAL_20120411_79945
X-Ucb-Scan-Signature: 6f69dc771d1fa6bf47924dba645d08511f891d50
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 12-Apr-2012 09:07:29.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [Ipn] BAT lightcurve for trigger at 120411_2212

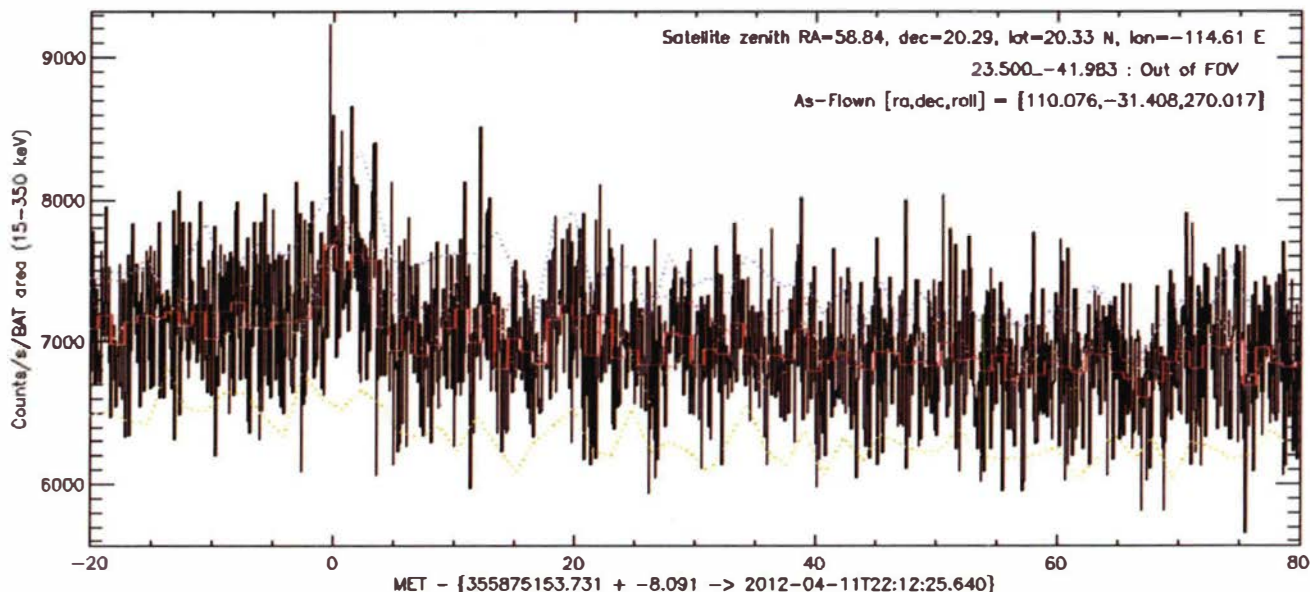
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/11/2012 8:20 PM

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/120411_2212.png



```
% /usr/local/bin/swinfo -o 355875153.731 -s 23.500_-41.983
Time(MET + UTCF -> UT): 355875153.731 + -8.091 -> 2012-04-11T22:12:25.640
Swift Zenith(RA,dec): 58.84, 20.29
Swift Location(lon,lat,alt): -114.61 E, 20.33 N, 587 km
Obs Sequence Number: 00032036030
Obs Target Name: RX J0720.4-3125
Obs Date and Times: 2012-04-11 22:09:53 - 22:30:49
Obs Pointing(ra,dec,roll): 110.076, -31.408, 270.02
23.500_-41.983_imageloc (boresight_dist, angle): (67, -126)
23.500_-41.983_exposure (cm^2 cos adjusted): 0
23.500_-41.983_altitude: 43 (up)
```

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

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

Attachments:

/tmp/120411_2212_bat64ms_ipn

87.1 KB

/tmp/120411_2212.png

21.0 KB

B

Subject: Re: [Ipn] BAT lightcurve for trigger at 120411_2212
From: Volodymyr Savchenko <Volodymyr.Savchenko@unige.ch>
Date: 4/12/2012 5:19 AM
To: ipn@ssl.berkeley.edu

It does, however, resemble the SPI-ACS lightcurve (see attached figure).

http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-04-11T22-12-25.00-00000-00000-0

Cheers
Volodymyr

On 12/04/12 13:56, Jay Cummings wrote:

The variation in this BAT lightcurve is probably due to a slew, not to the Fermi event 355875147.

Regards,
Jay

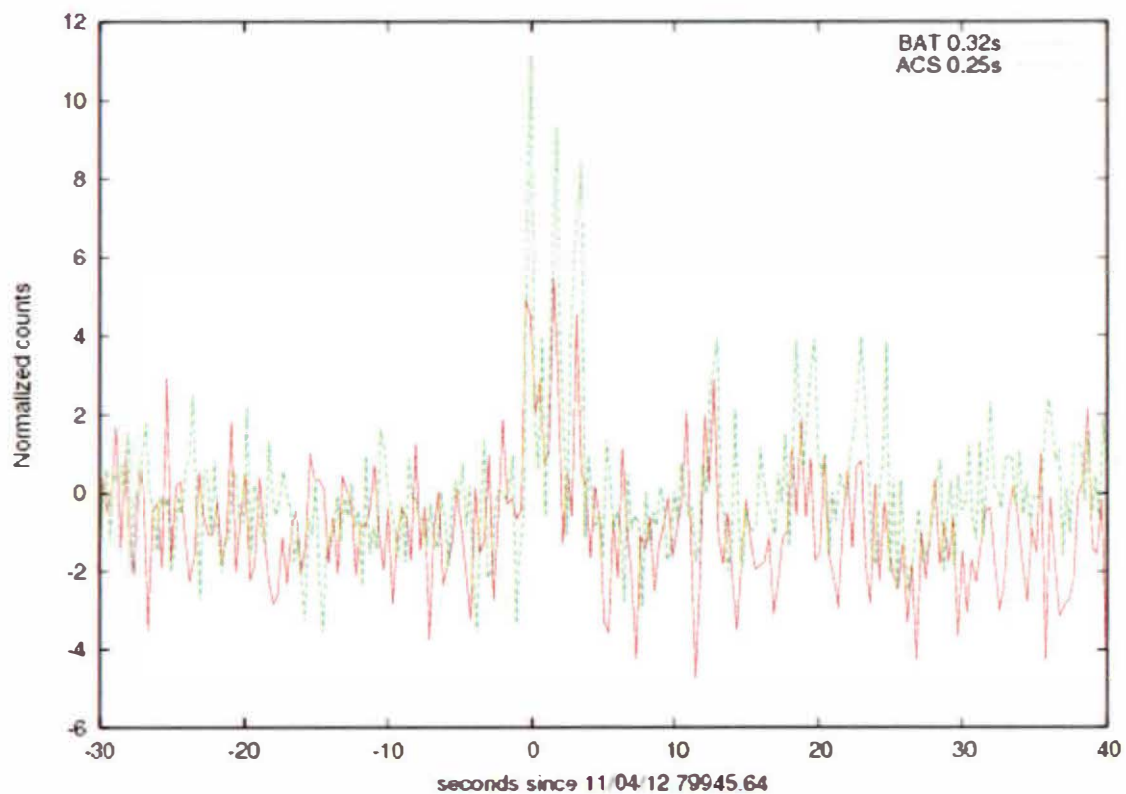
On 4/11/12 11:20 PM, palmer+automatic_lightcurve@lanl.gov wrote:

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

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

batacs.png

Re: [Ipn] BAT lightcurve for trigger at 120411_2212



[Volodymyr Savchenko <volodymyr.savchenko@unige.ch>](mailto:volodymyr.savchenko@unige.ch)

INTEGRAL Project

ISDC Data Centre for Astrophysics

Ipn mailing list

Ipno@ssl.berkeley.edu

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

Attachments:

batacs.png

63.0 KB

MS01 HEND

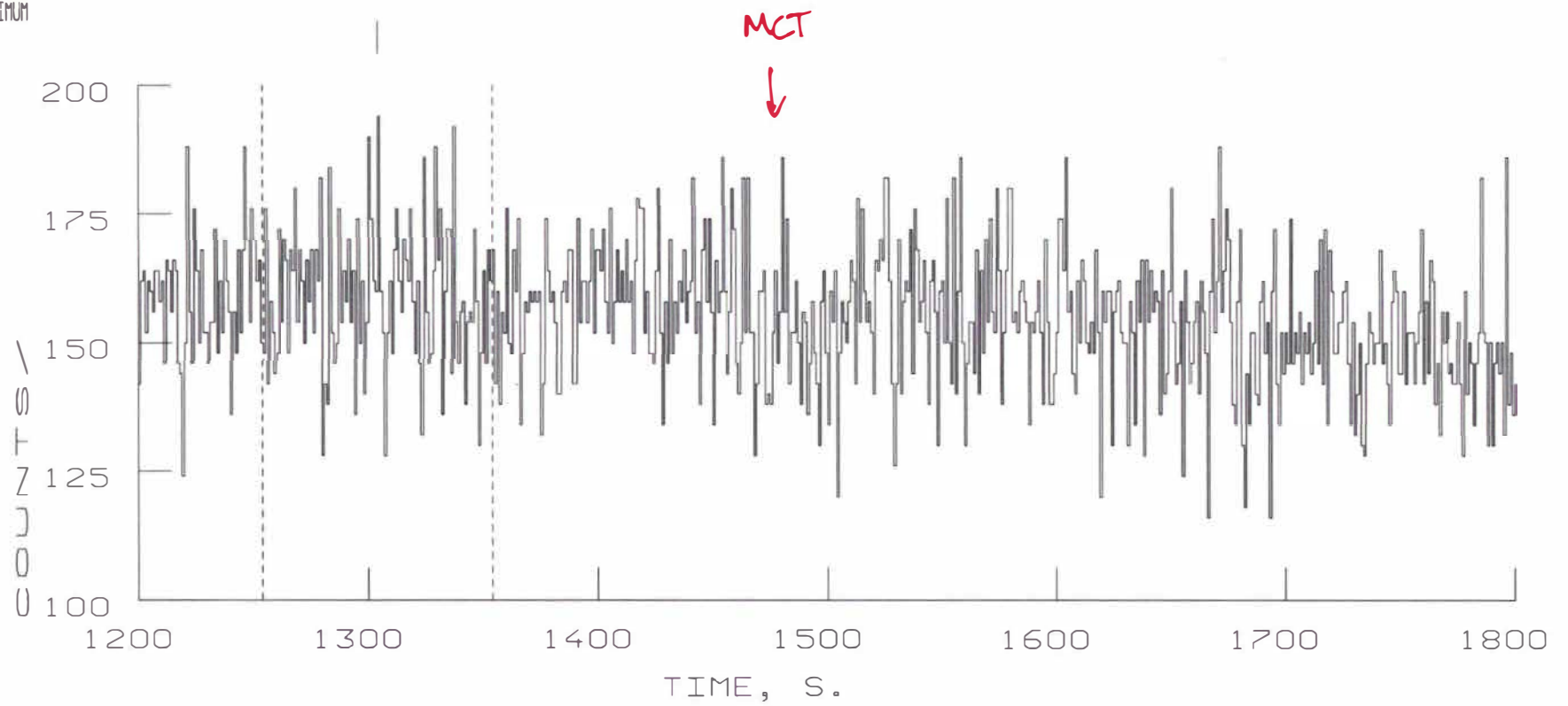
08/08/2016

11/04/2012 78610.594 s

0.250 S INTERVALS REGROUPED BY 4

50-3000 keV

MAXIMUM



GLAST

11/04/12

79945.650

22:12:25

B

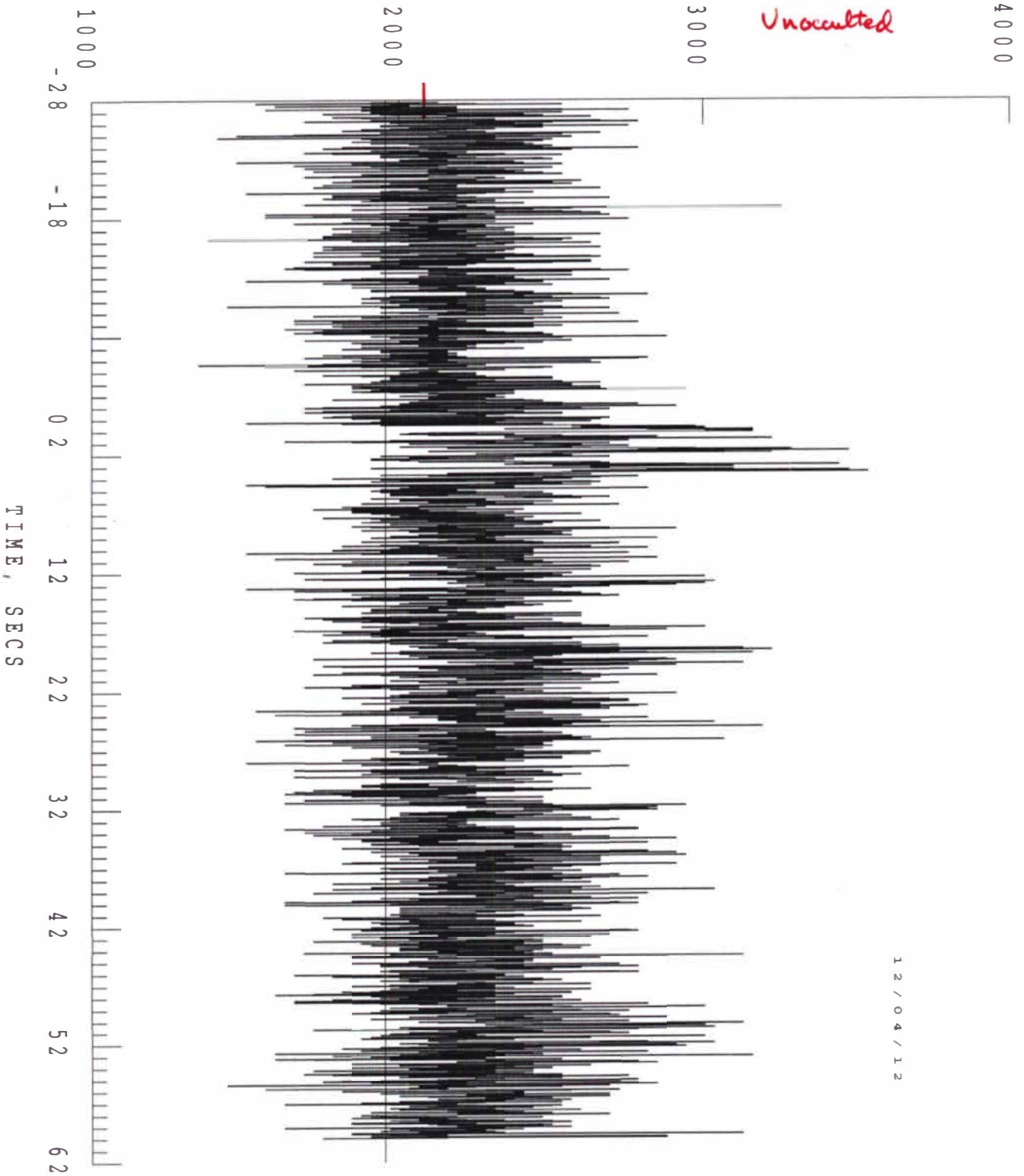
26- 293 keV

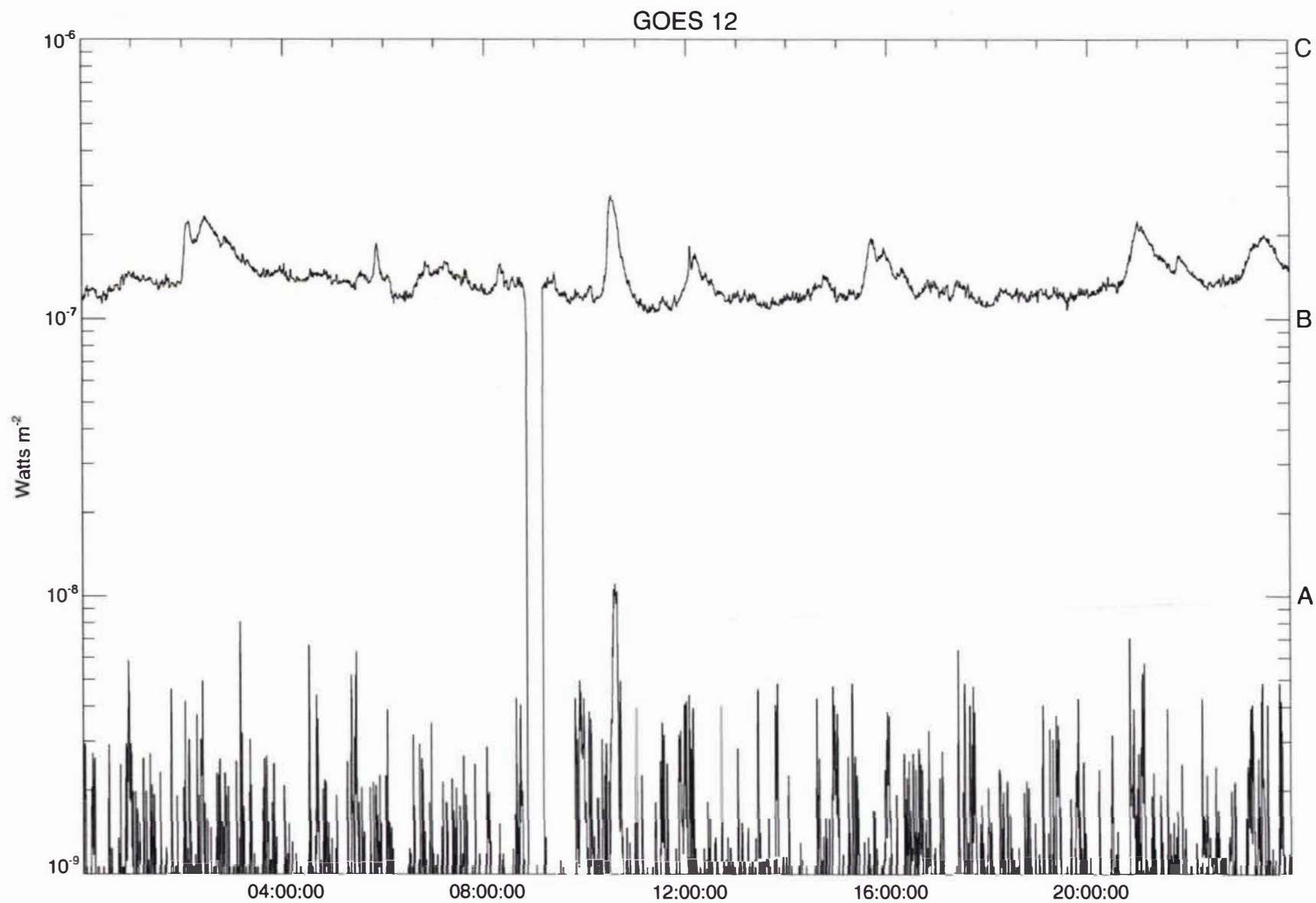
38.07, -6.76, 8.45

COUNTS/0.032 S

$\angle$ G12B/O/M = 122.2°

Unoculted





Data Start: 12/04/11, 0000:10

Plot created: 12/04/14, 0840

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

GLAST

12/04/12

4722.148

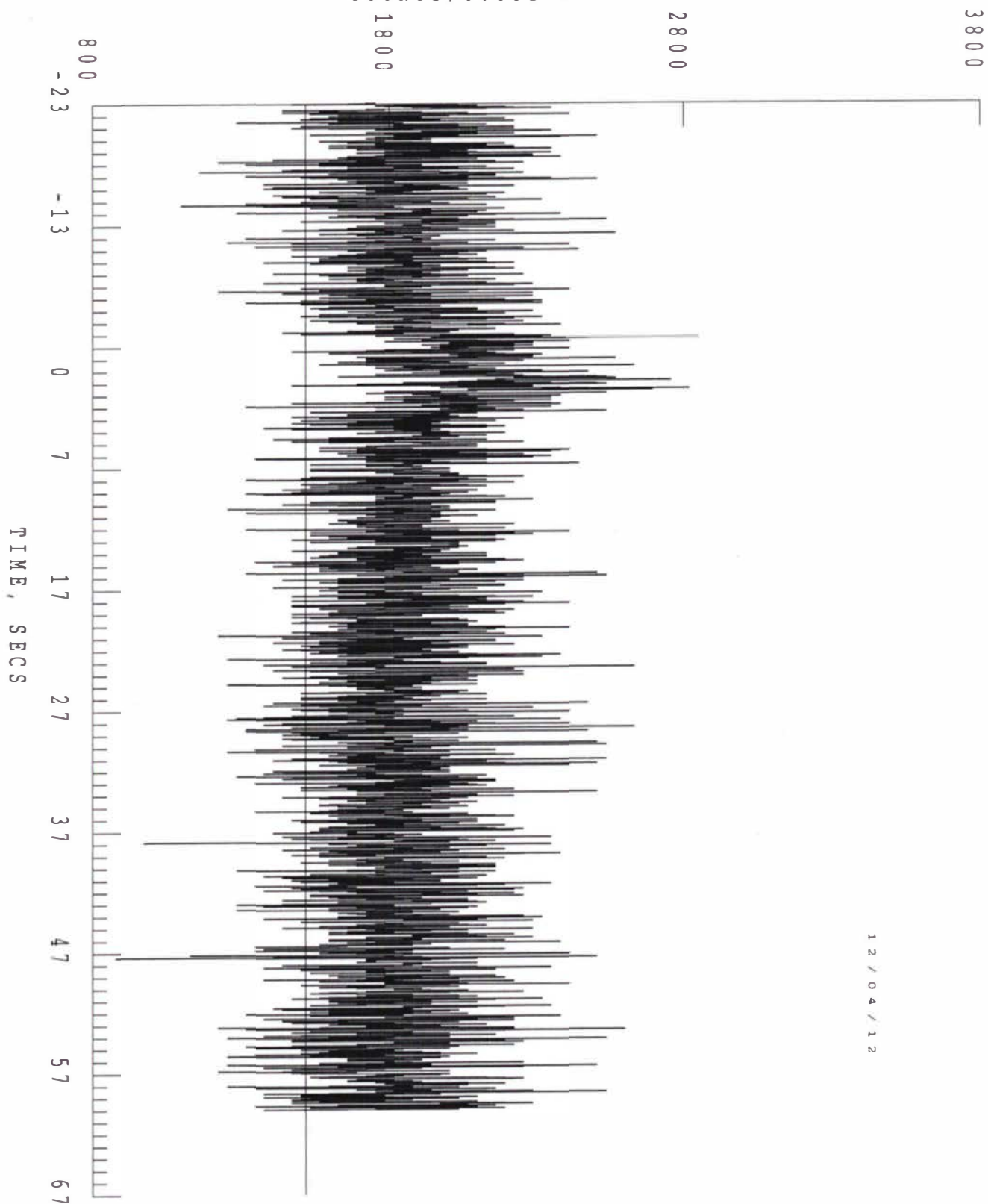
01:18:42

A

26- 293 keV

29.44, -23.33, 13.47

COUNTS/0.032 S



A

MS01

12/04/12

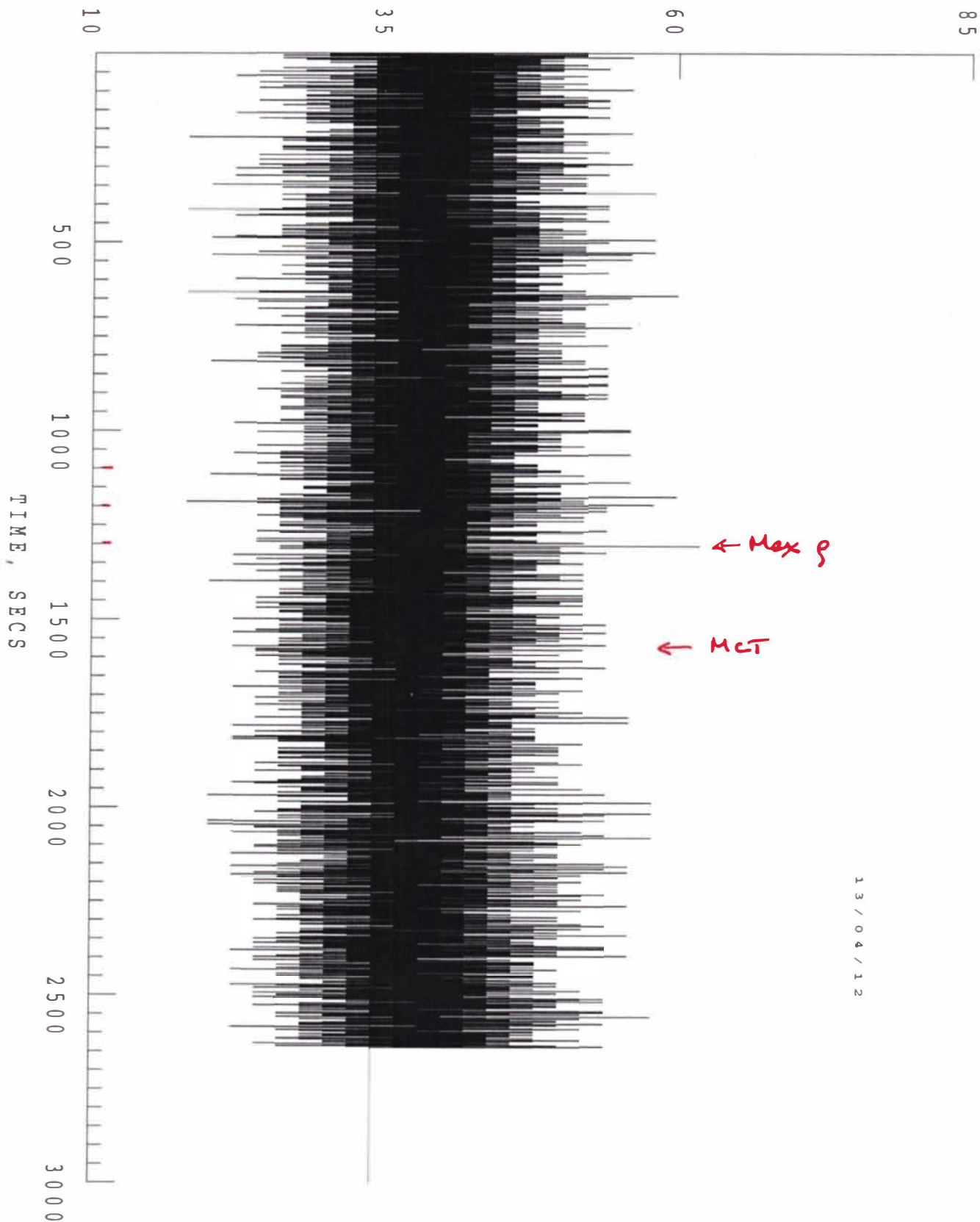
3370.400

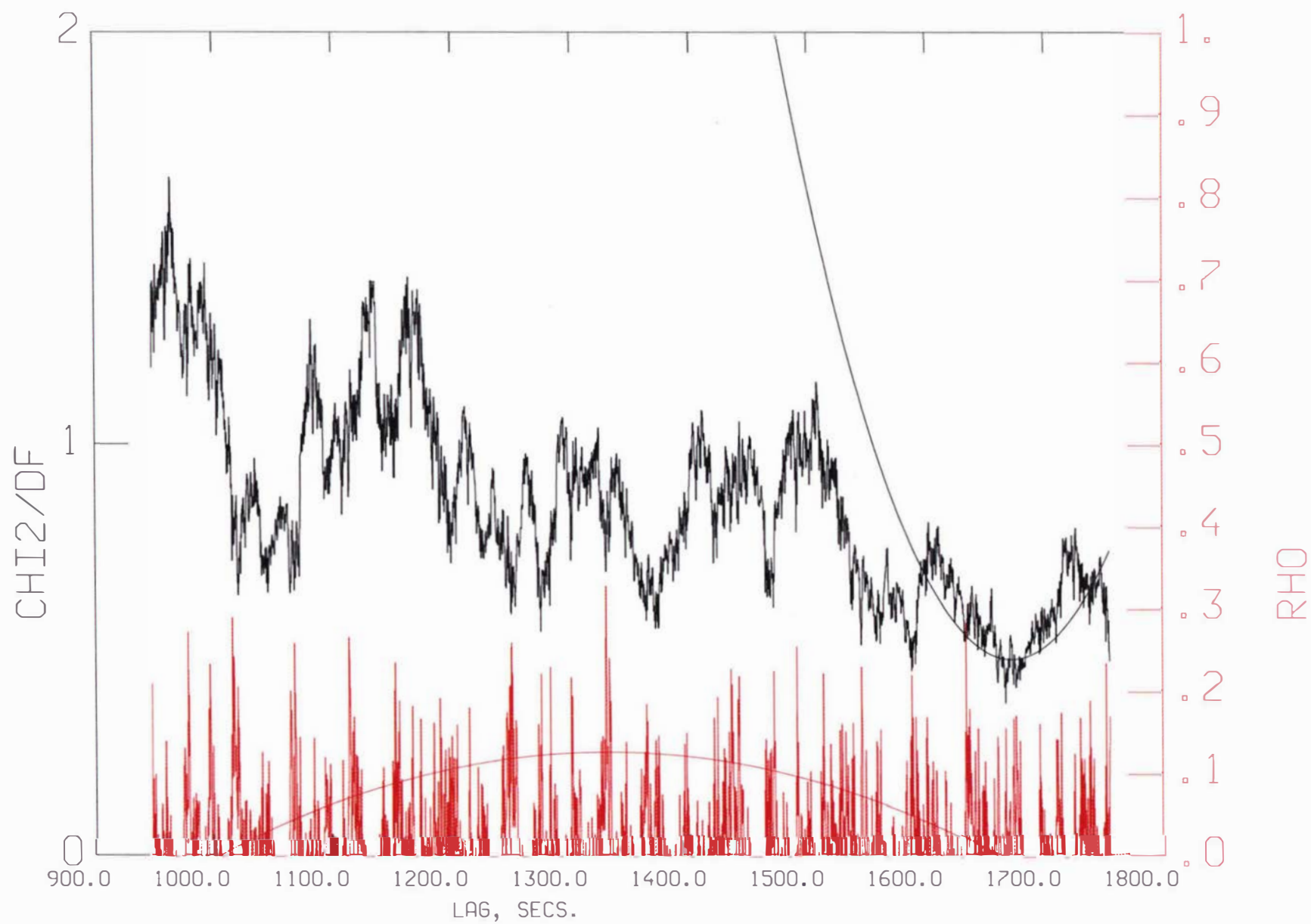
50 - 3000 keV

$\angle \text{GRB}/\text{O}/\text{M} = 73^\circ$

Un occulted

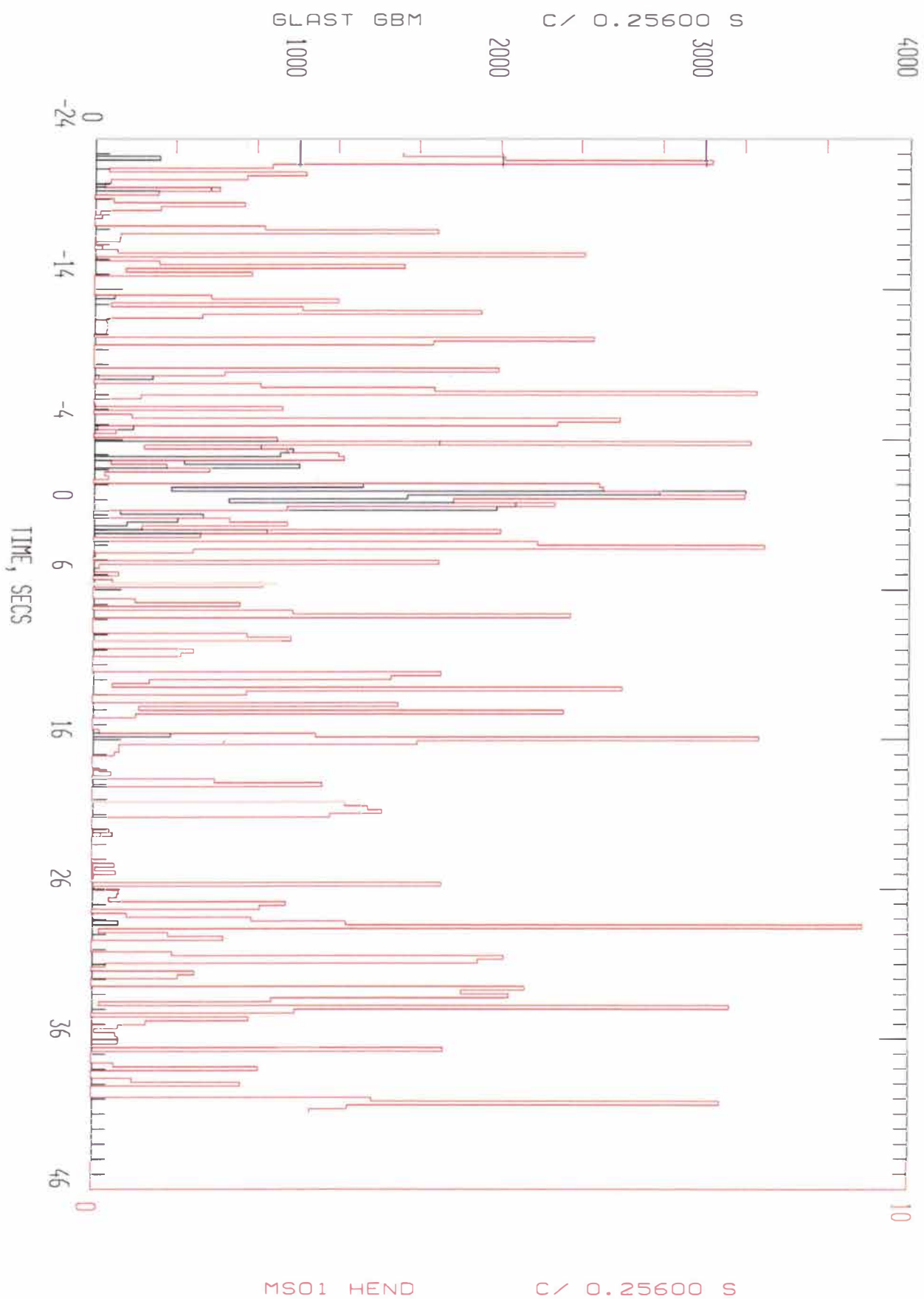
COUNTS/0.250 S





GLAST GBM - MS01 HEND CORRELATION 12/04/12 4222.148

17 / 7/12



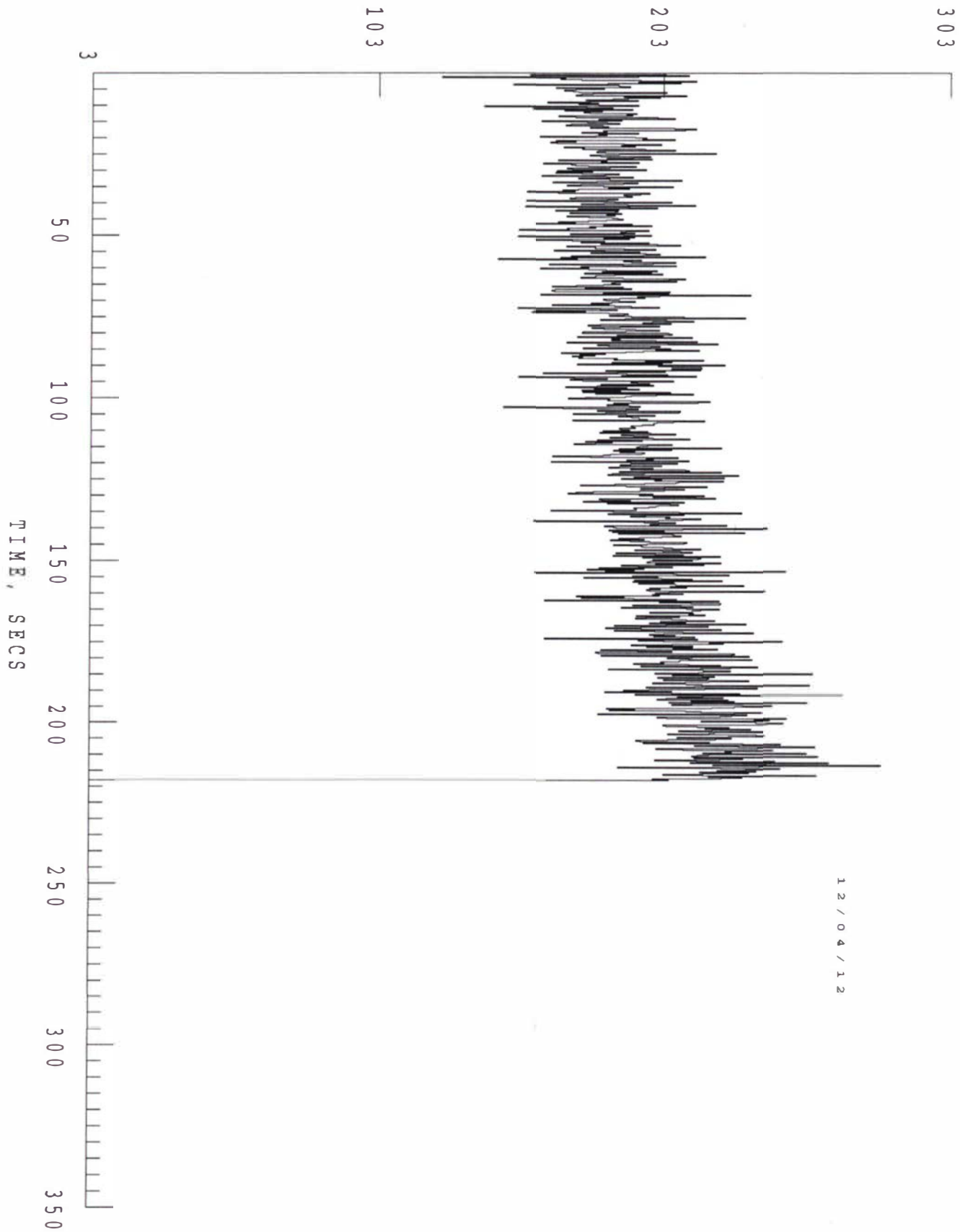
HESSI

12/04/12 4572.000 (GLAST_20120412_04722)

A

25- 150 keV

COUNTS/0.250 S

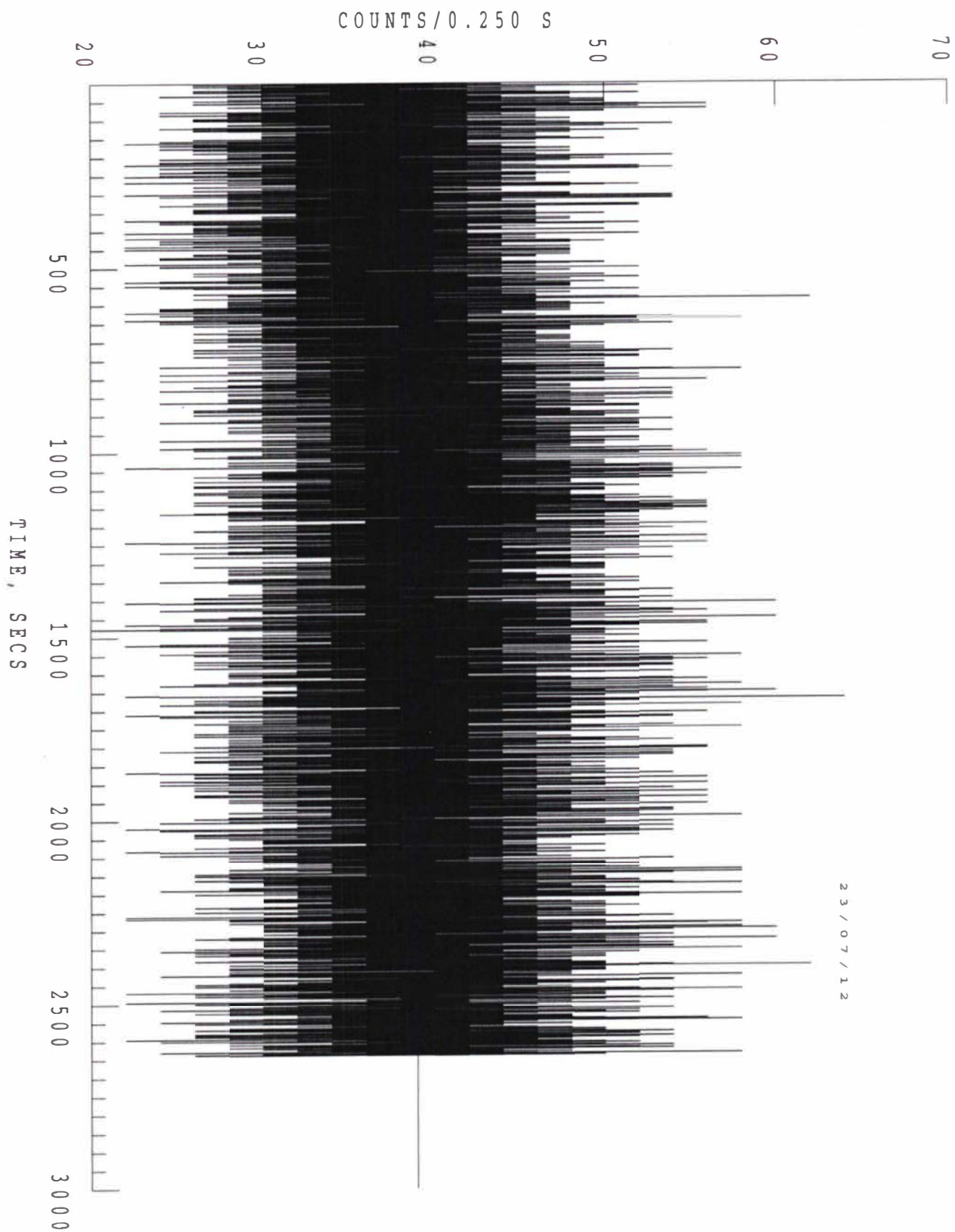


MS01

12/04/12

51309.533

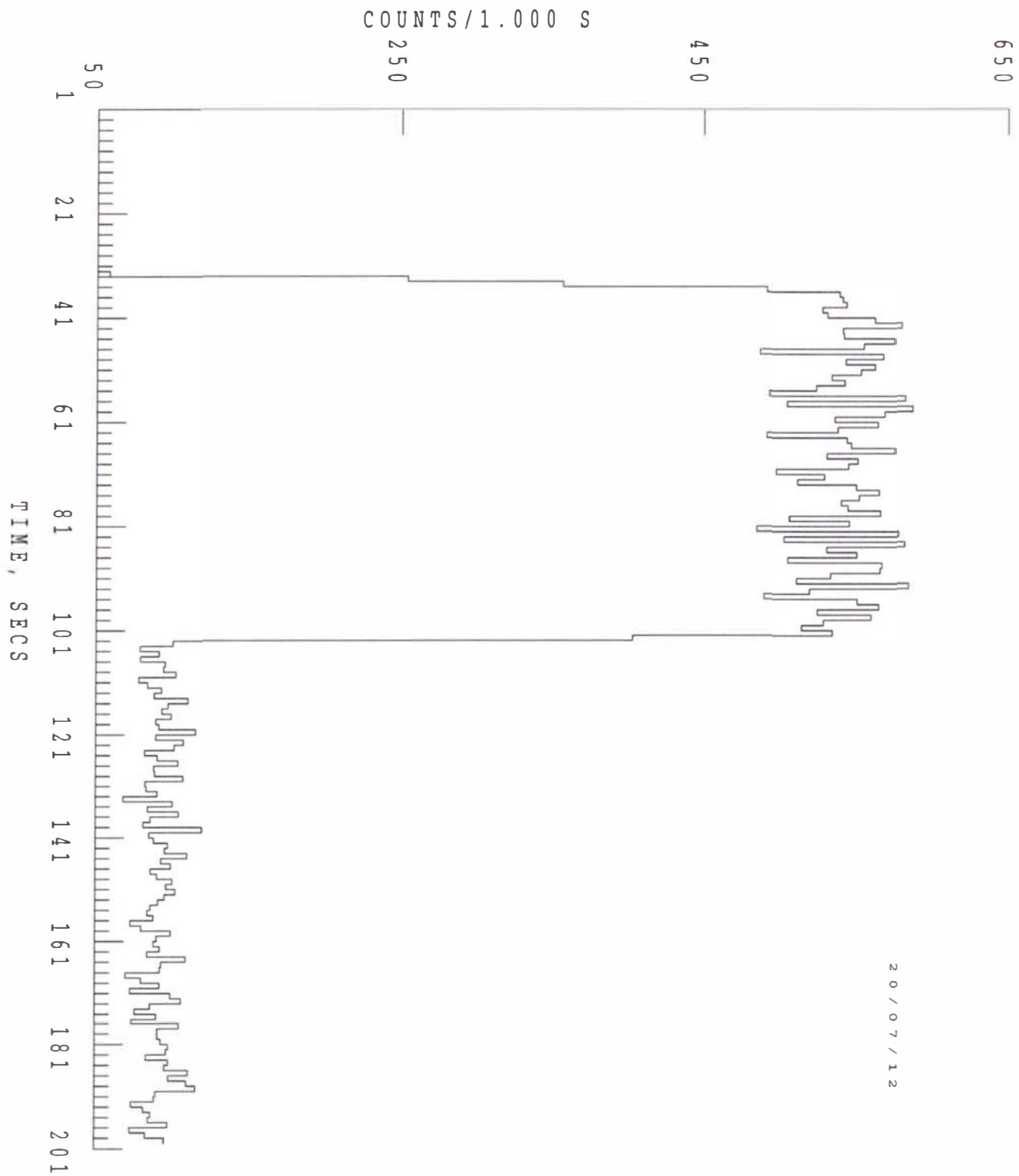
50 - 3000 keV



HESSI

12/04/12 52533.000 (SUZAKU_RI_20120412_52633)

25- 150 keV



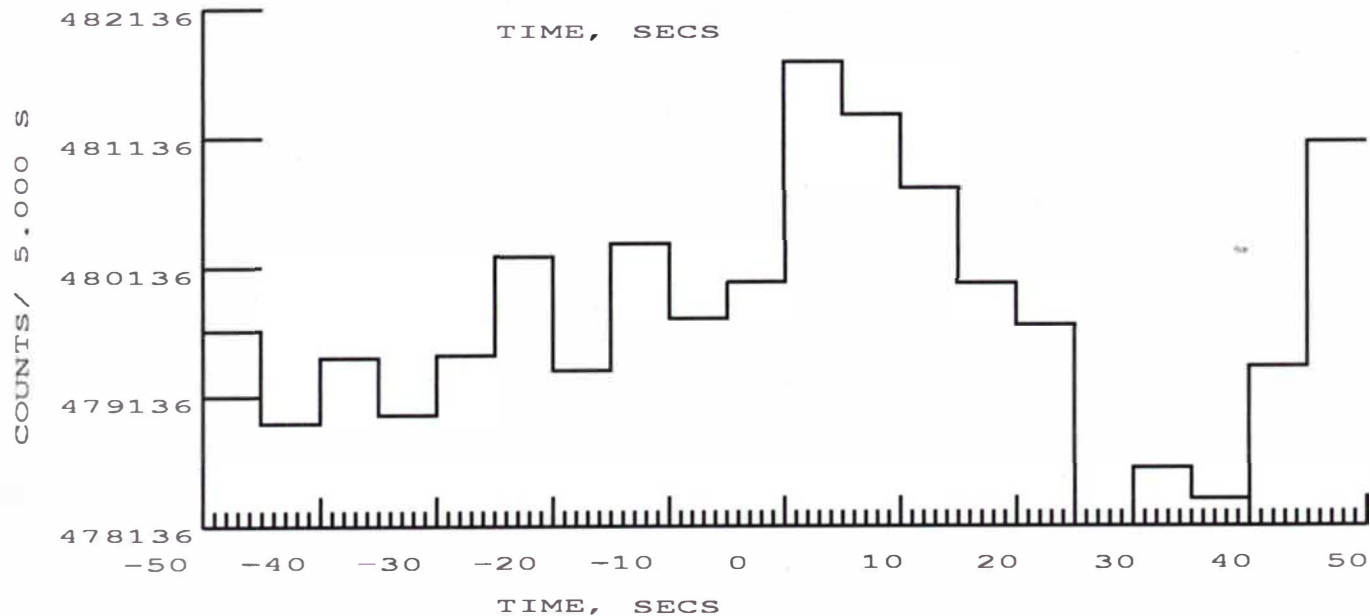
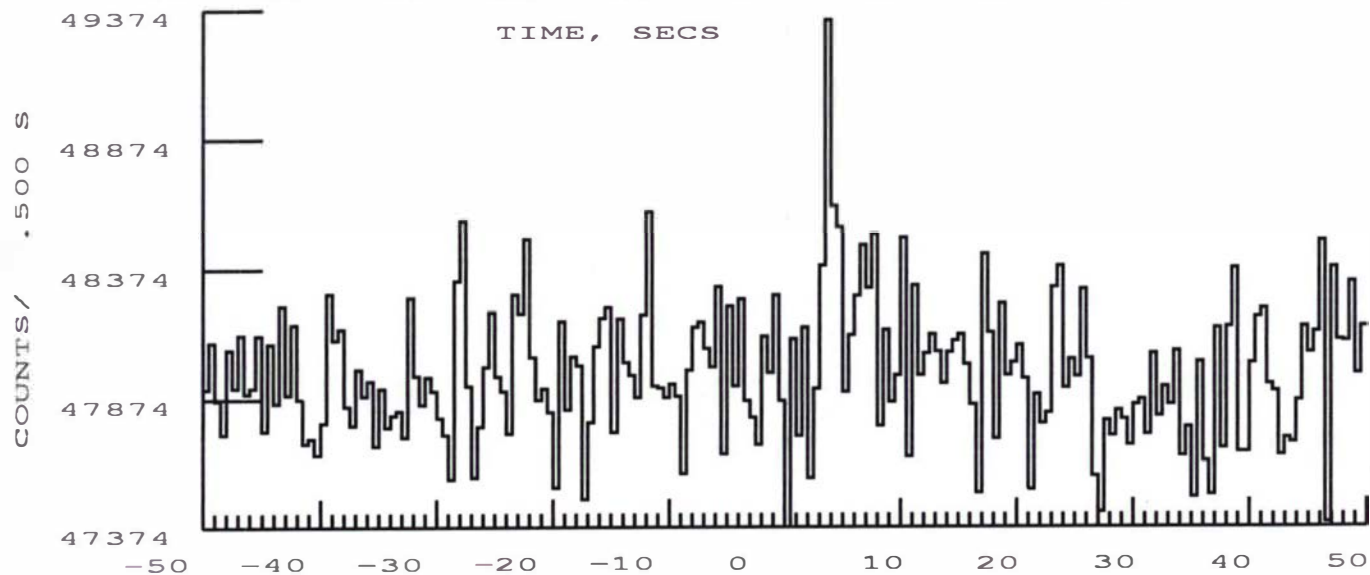
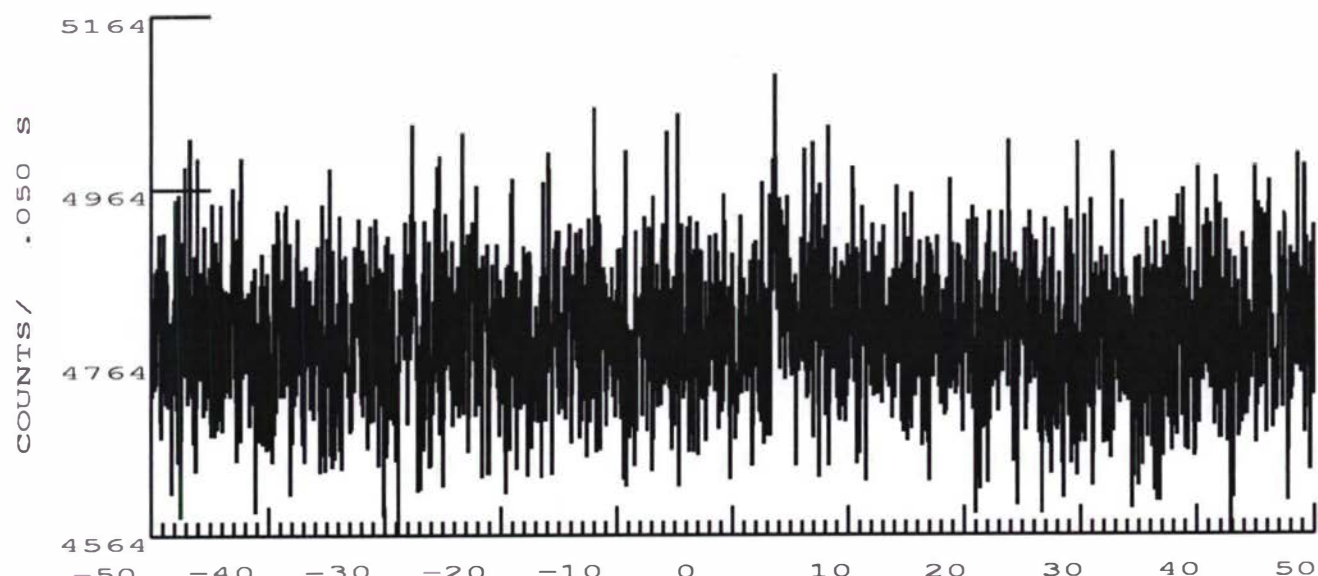
INTEGRAL

12/04/12

52633.000

14:37:13.0

22/01/14



GLAST

12/04/12

79480.564

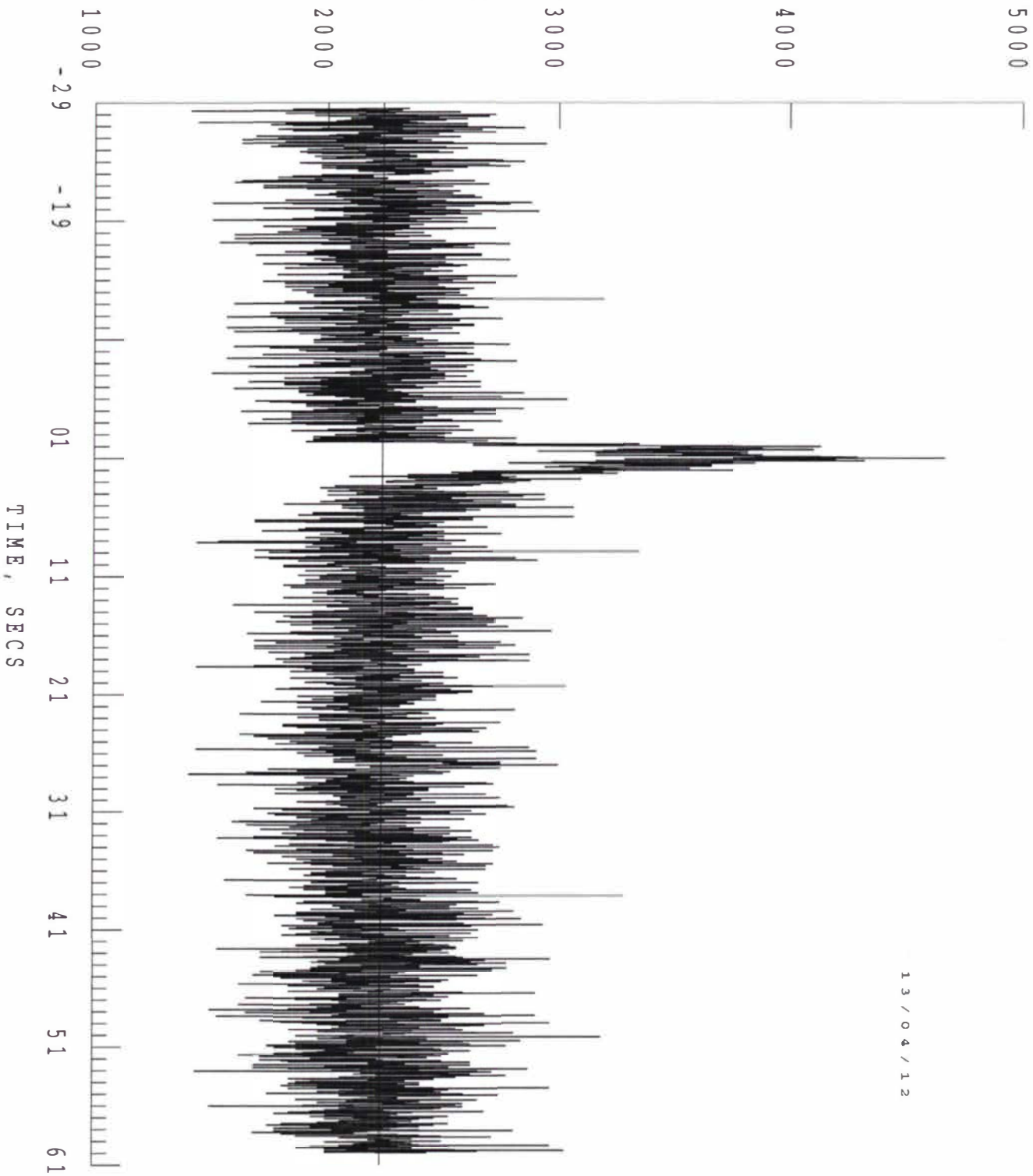
22:04:40

13

26 - 293 keV

38.91, 7.06, 2.8

COUNTS/0.032 S



MS01

12/04/12

78129.057

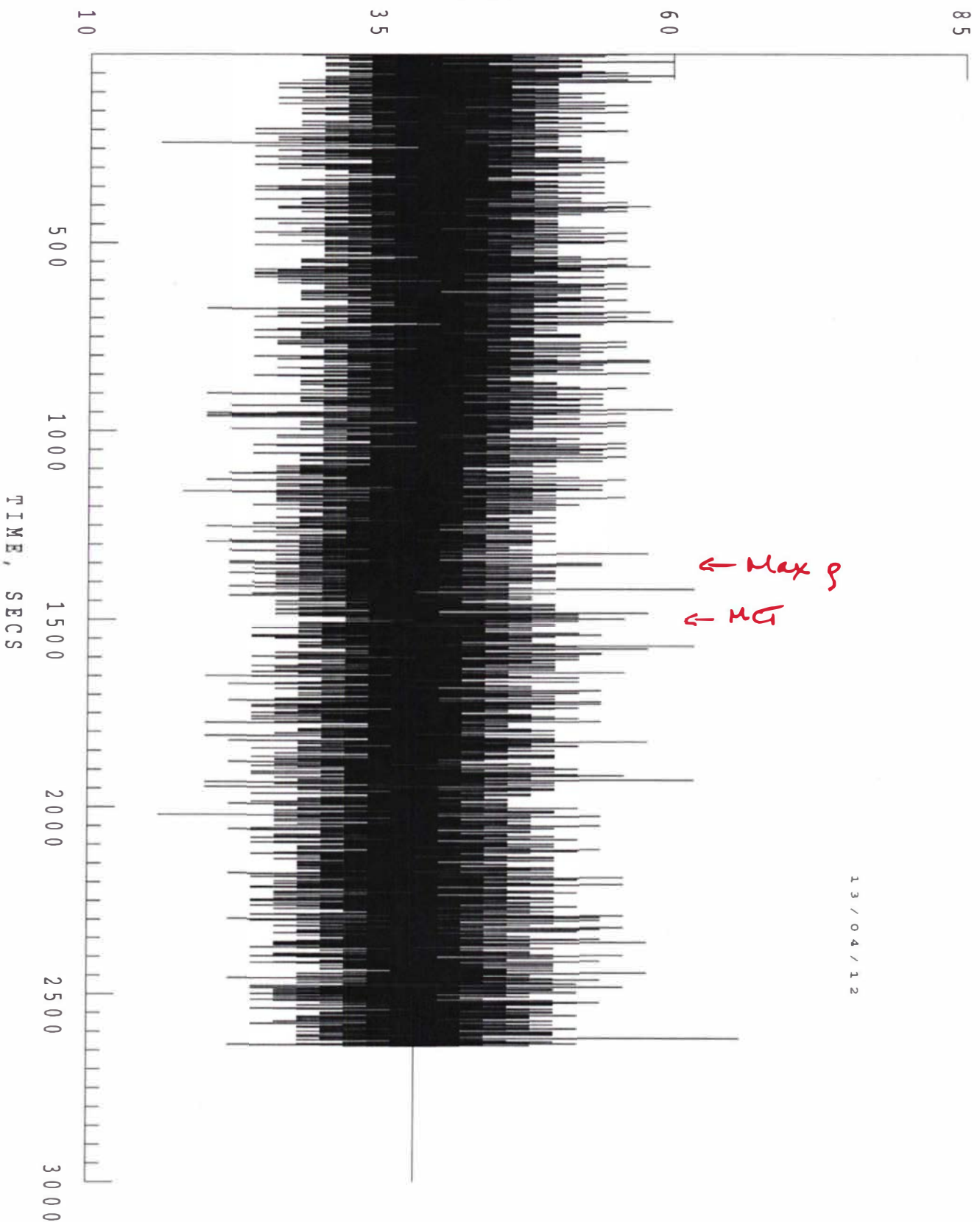
B

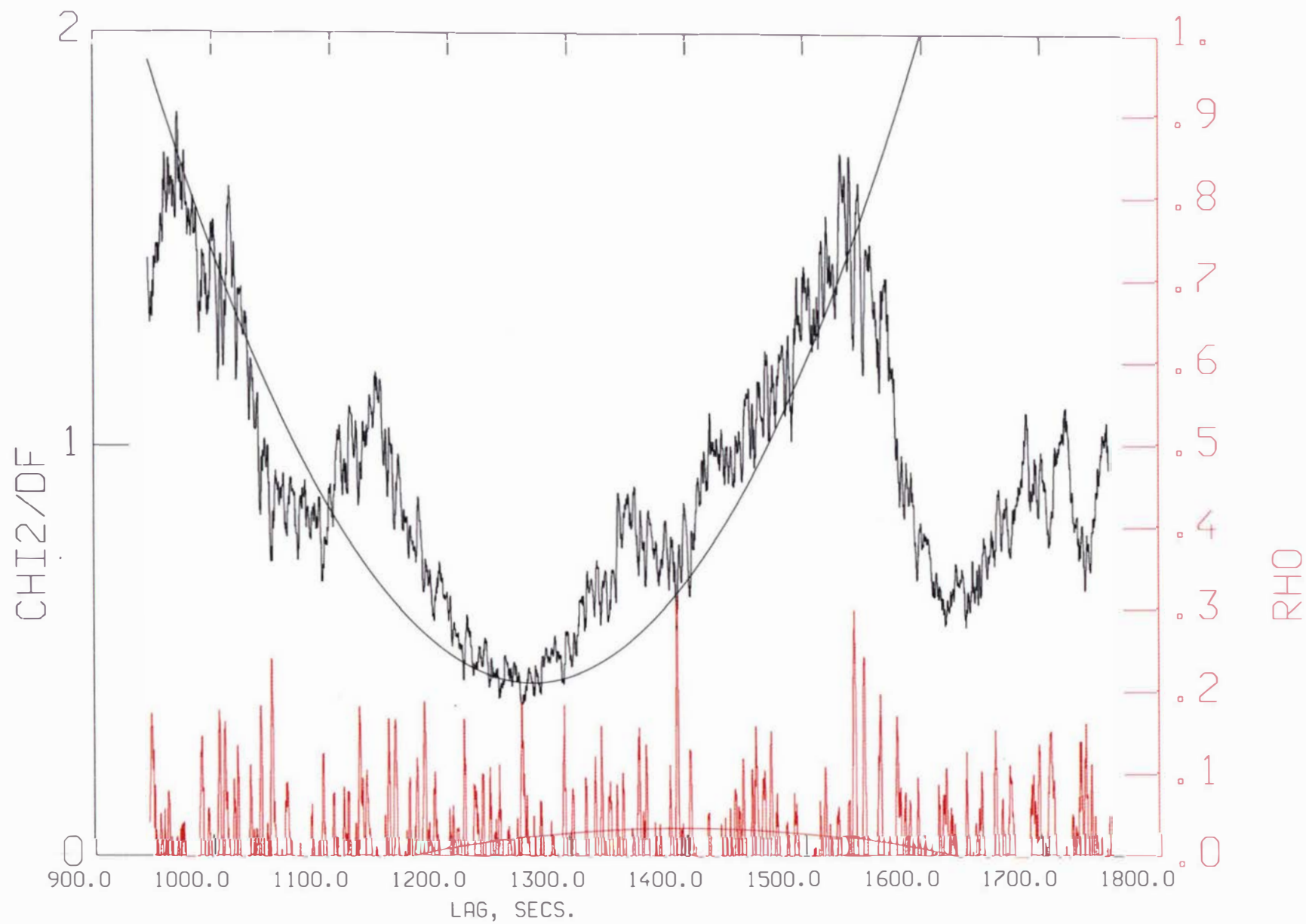
50 - 3000 keV

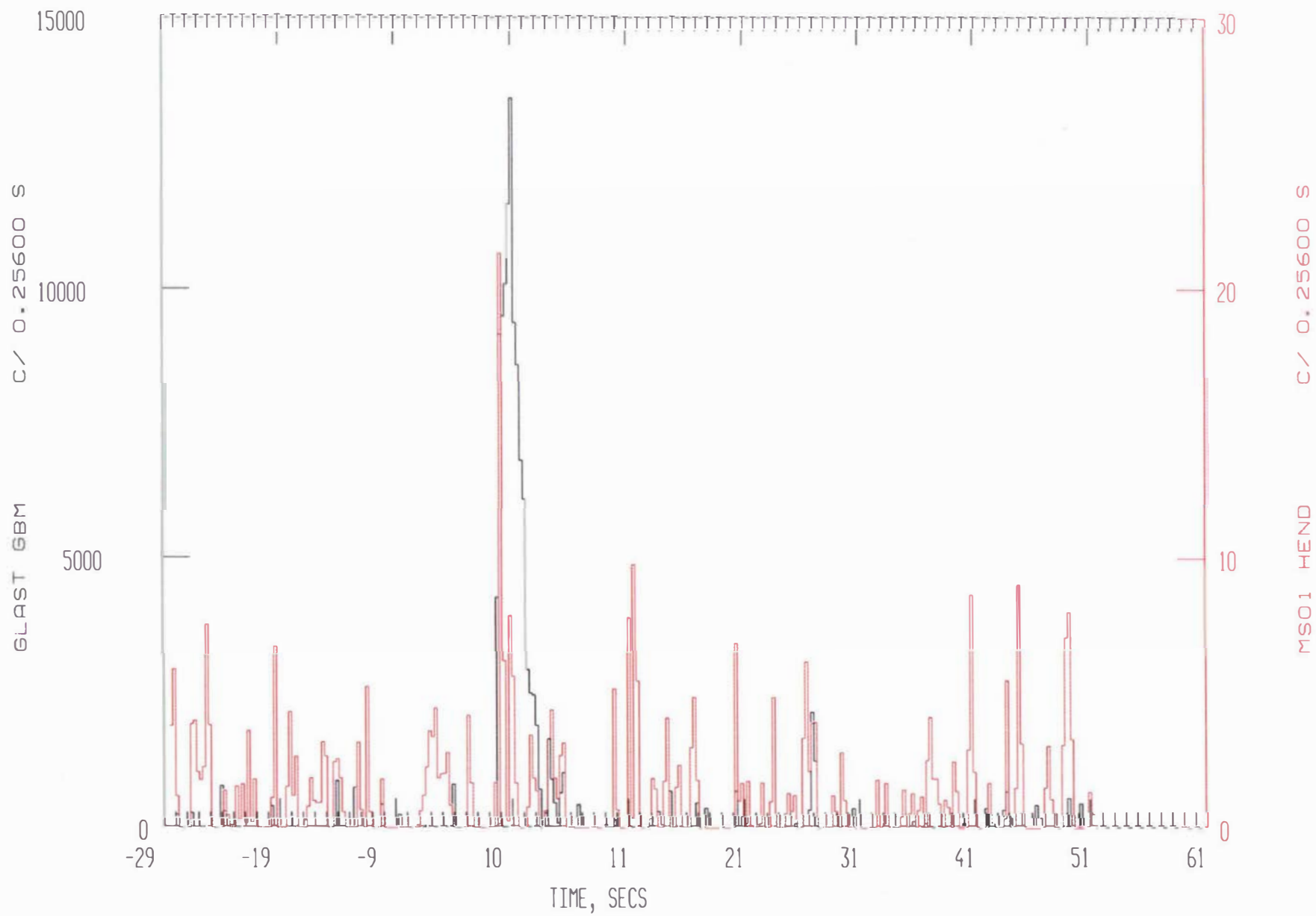
$\angle \text{GRB}/\text{O/M} = 88^\circ$

Unoccluded

COUNTS/0.250 S







From williams@gammaburst.ssl.berkeley.edu Fri Apr 13 13:35:42 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.143
~Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Fri, 13 Apr 2012 13:26:57 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_GLAST_20120412_79480
X-Ucb-Scan-Signature: 2317346aa939fe39ef89afce9b68d4ec57b7a763
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 13-Apr-2012 13:34:43.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Time Range Partially in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

B

Subject: [lpn] BAT lightcurve for trigger at 120412_2204

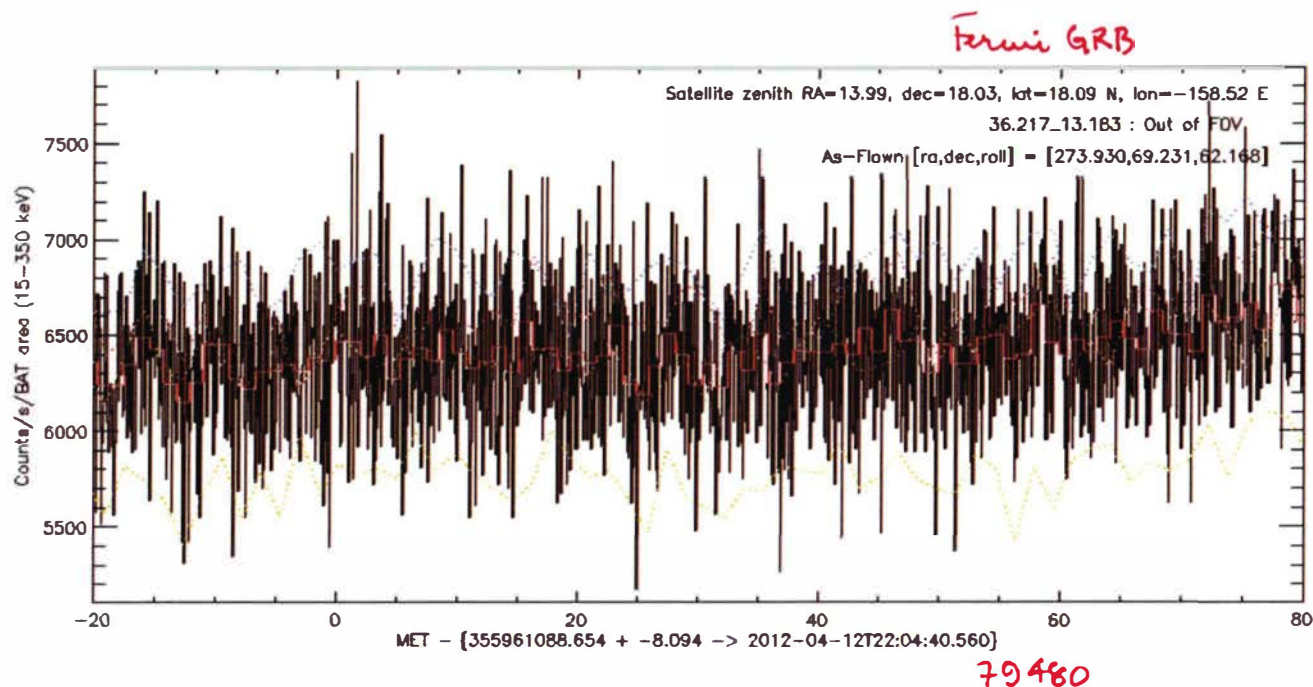
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/12/2012 8:08 PM

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/120412_2204.png



```
% /usr/local/bin/swinfo -o 355961088.654 -s 36.217_13.183
Time(MET + UTC -> UT):      355961088.654 + -8.094 -> 2012-04-12T22:04:40.560
Swift Zenith(RA,dec):       13.99, 18.03
Swift Location(lon,lat,alt): -158.52 E, 18.09 N, 588 km
Obs Sequence Number:        00518626010
Obs Target Name:             GRB 120326A
Obs Date and Times:          2012-04-12 21:47:53 - 22:09:49
Obs Pointing(ra,dec,roll):   273.930, 69.231, 62.17
36.217_13.183_imageloc (boresight_dist, angle): (88, -97)
36.217_13.183_exposure (cm^2 cos adjusted): 0
36.217_13.183_altitude: 92 (up)
```

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

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

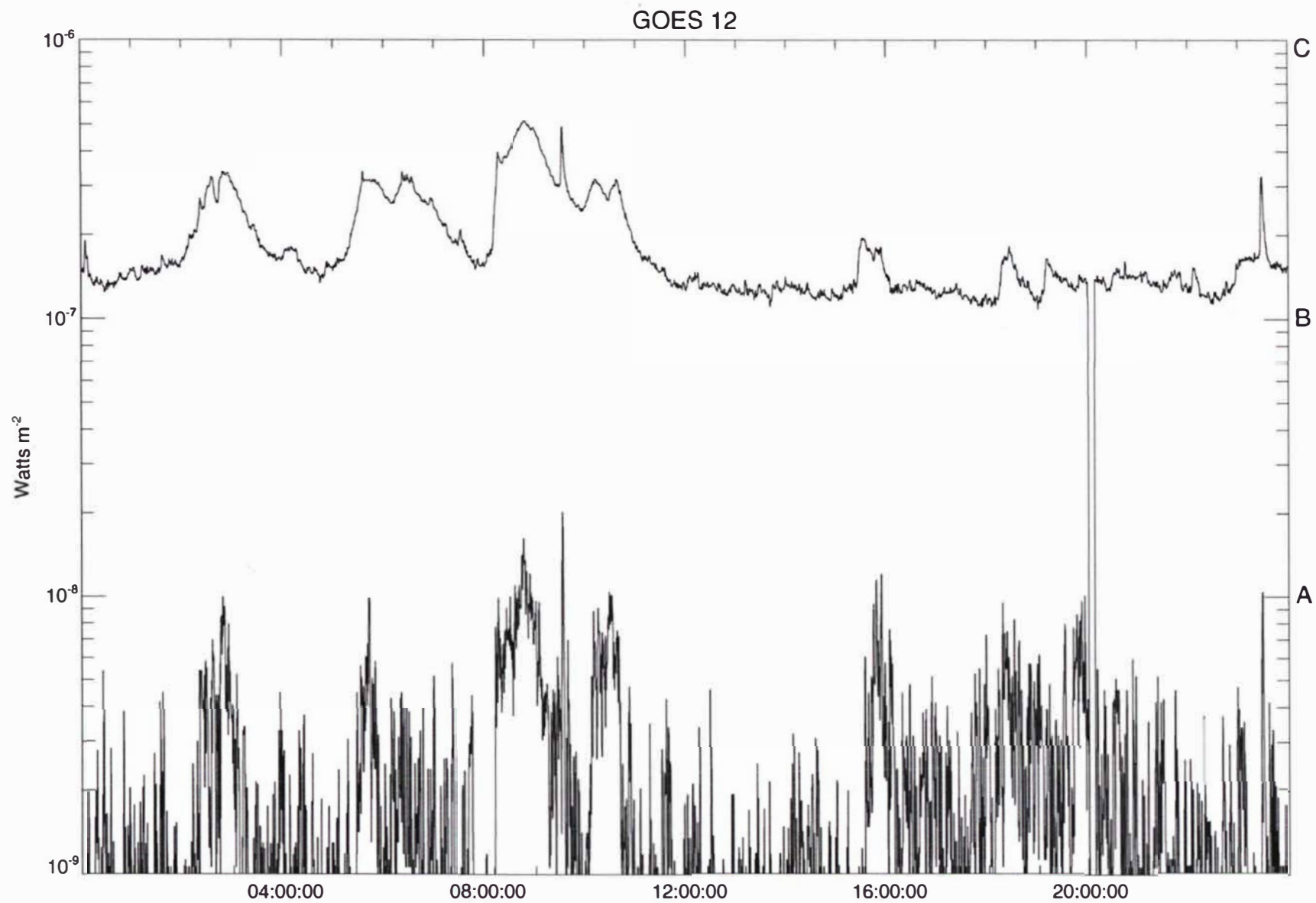
Attachments:

/tmp/120412_2204_bat64ms_ipn

87.1 KB

/tmp/120412_2204.png

22.7 KB



Data Start: 12/04/12, 0000:10

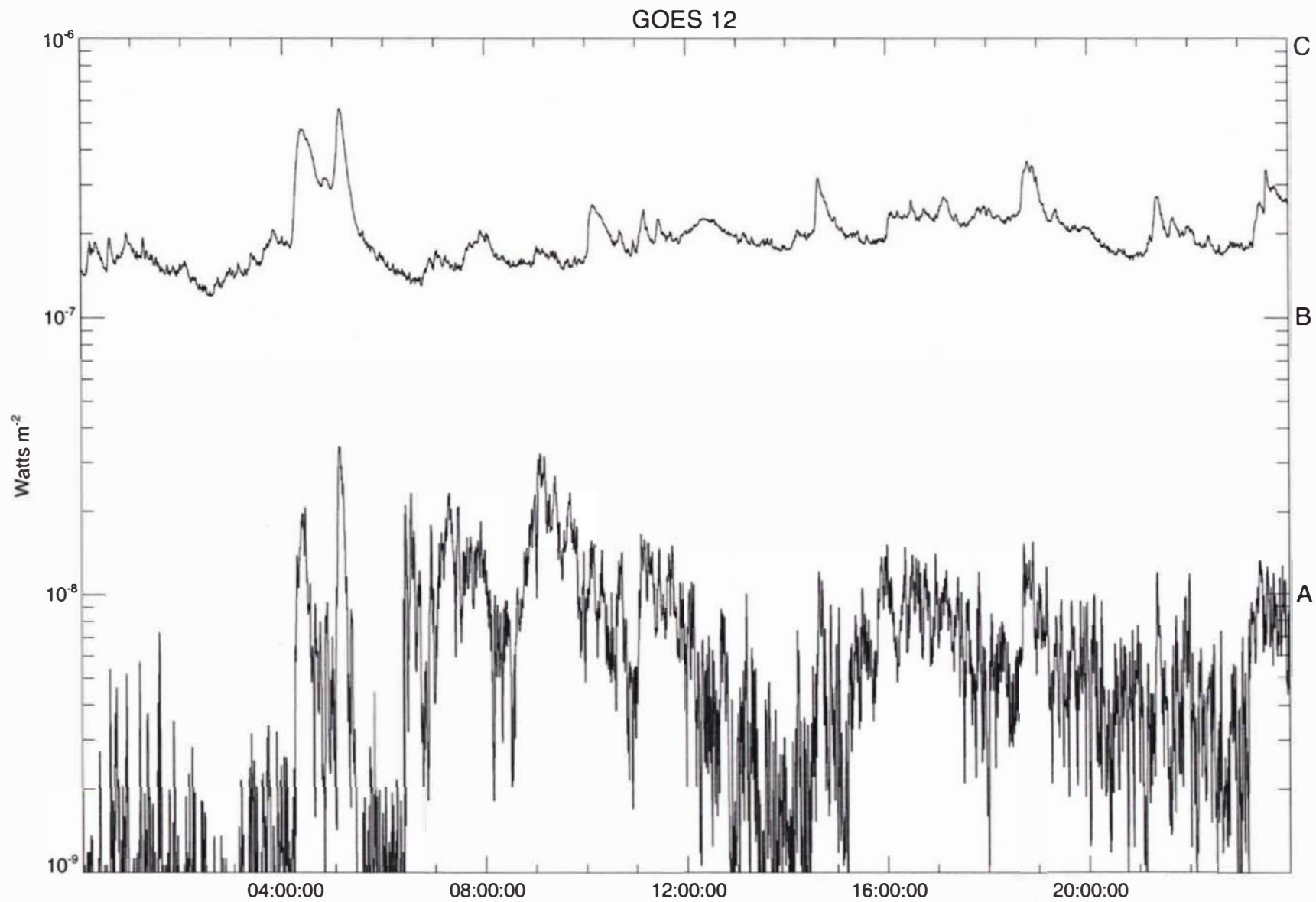
Plot created: 12/04/15, 0842

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Sample average = 10



Data Start: 12/04/13, 0000:10

Plot created: 12/04/16, 0840

Channel

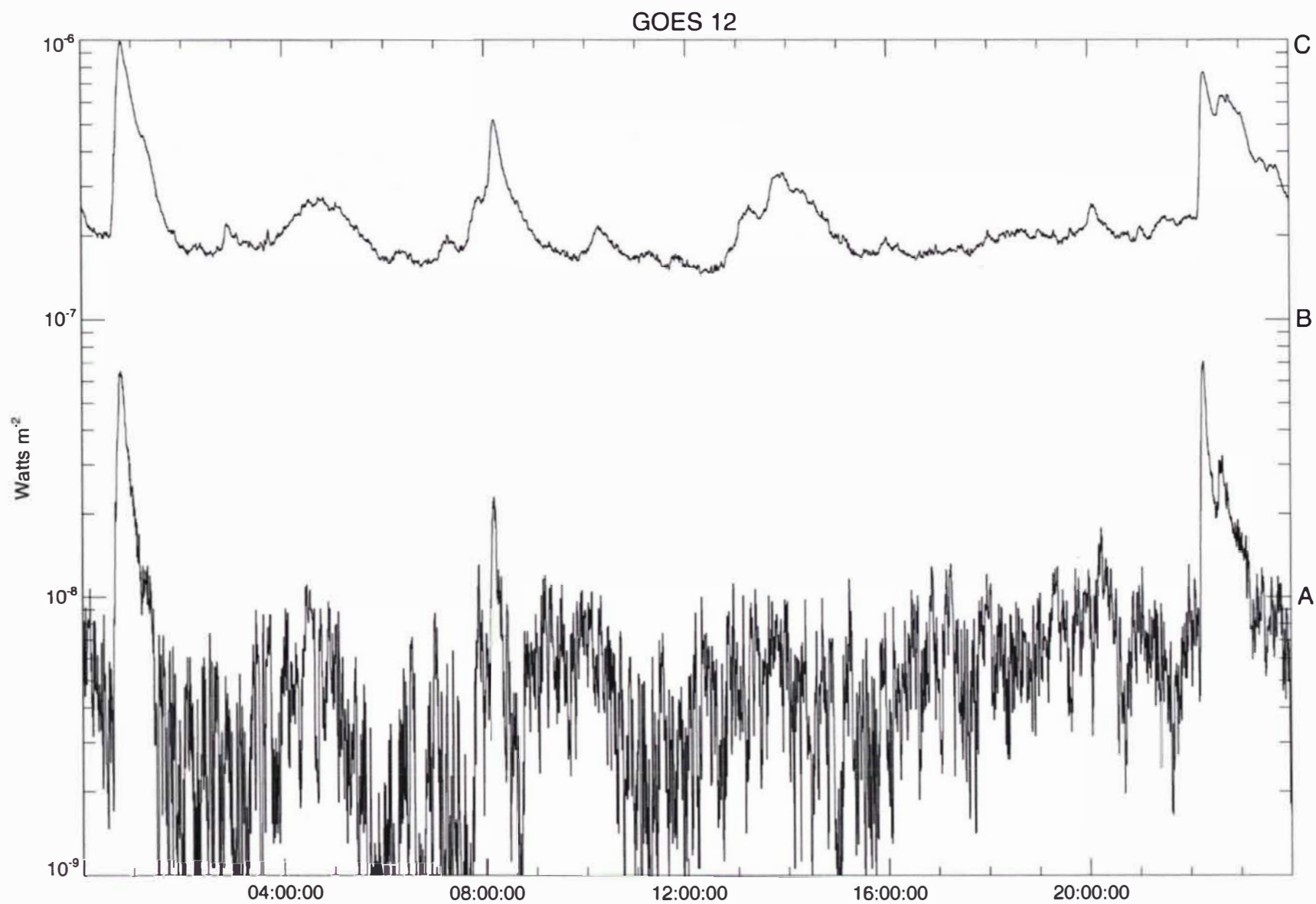
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10



Data Start: 12/04/14, 0000:10

Plot created: 12/04/17, 0839

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: RE: MESSENGER data
From: "Goldsten, John" <John.Goldsten@jhuapl.edu>
Date: 4/23/2012 10:14 AM
To: Kevin Hurley <khurley@ssl.berkeley.edu>
CC: "Ensor, Susan L." <Susan.Ensor@jhuapl.edu>

Hi Kevin,

As far as I know, access to the EDR files via the SOC has not changed since we entered the extended mission phase, but perhaps Susan can comment. I have had no trouble getting into the SOC with the usual password.

Perhaps the problem is that the NS high voltage was disabled from approximately April 15-21 to accommodate the spacecraft engine burn to shorten the orbit about Mercury from 12 to 8 hr. This would explain why you wouldn't see any GAB records from DOY 108-111.

Regards,
John

-----Original Message-----

From: Kevin Hurley [<mailto:khurley@ssl.berkeley.edu>]
Sent: Monday, April 23, 2012 12:31 PM
To: Goldsten, John; khurley@ssl.berkeley.edu
Subject: MESSENGER data

Dear John,

I have not been able to get into the MESSENGER server for several days now. Has there been a password change?

Kevin

Date: Aug 8 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?

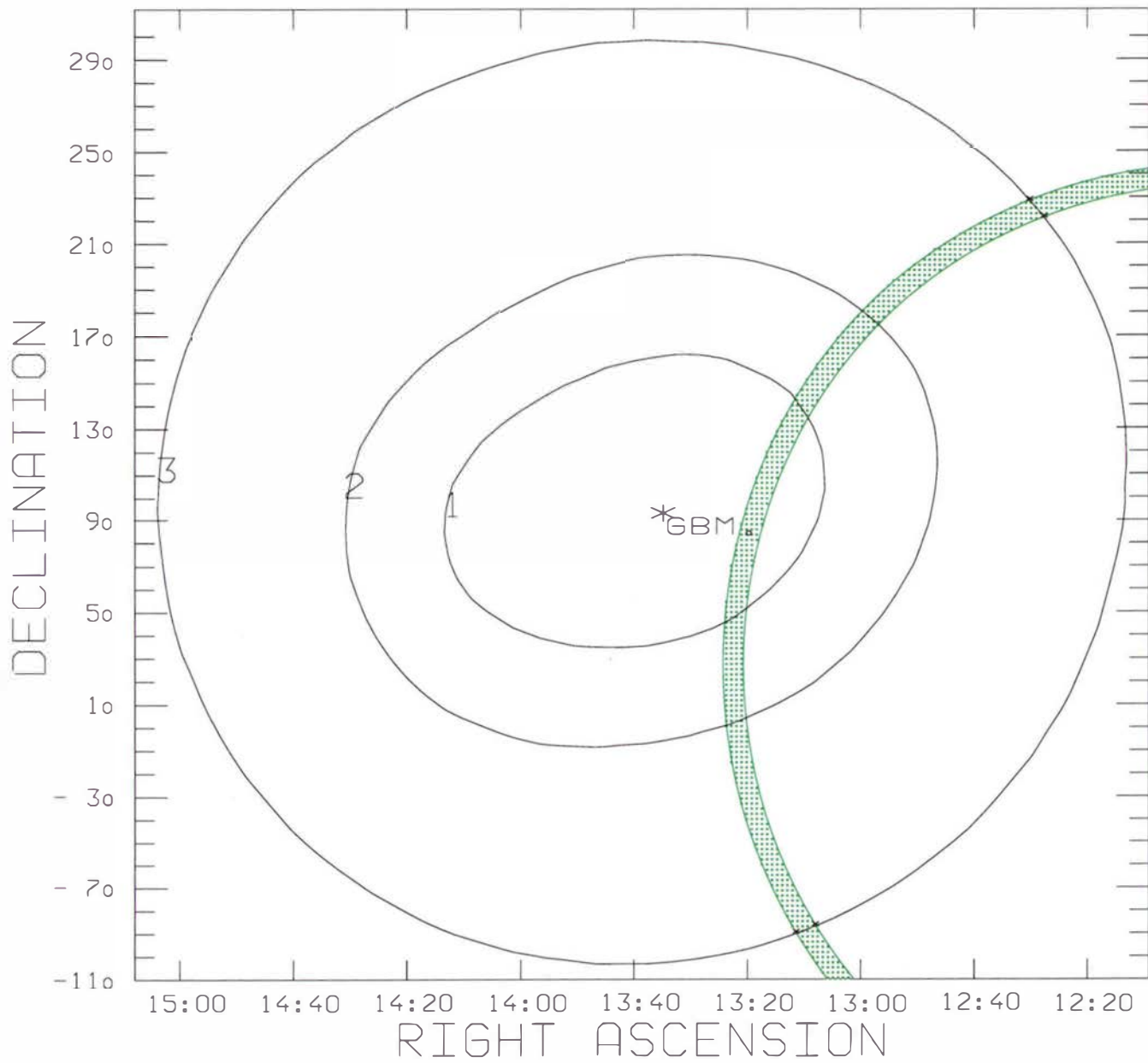
7. For INTEGRAL events

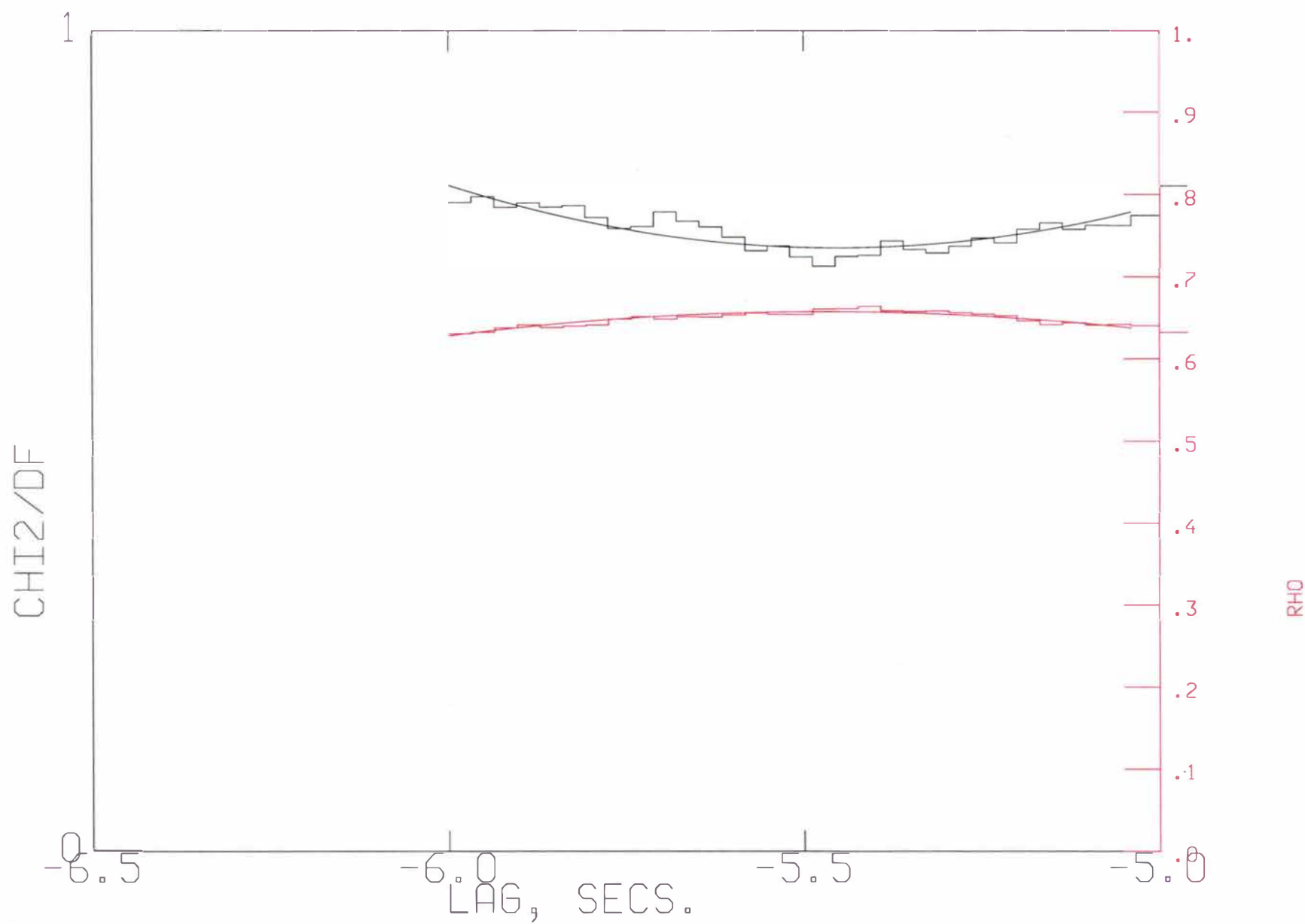
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

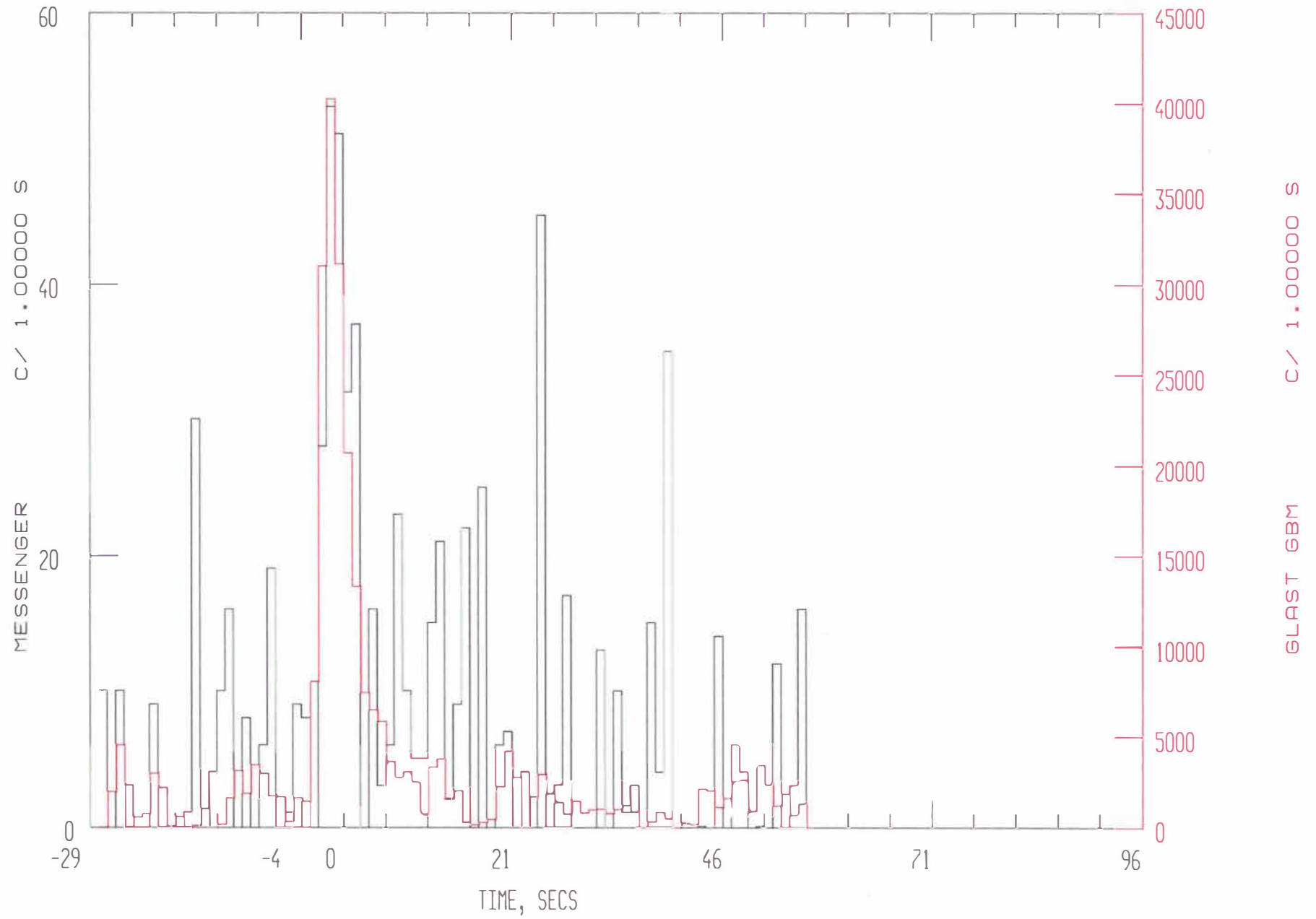
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

GRB120415 ~06598 S

08/08/2016







GLAST

15/04/12

6597.682

01:49:57

A

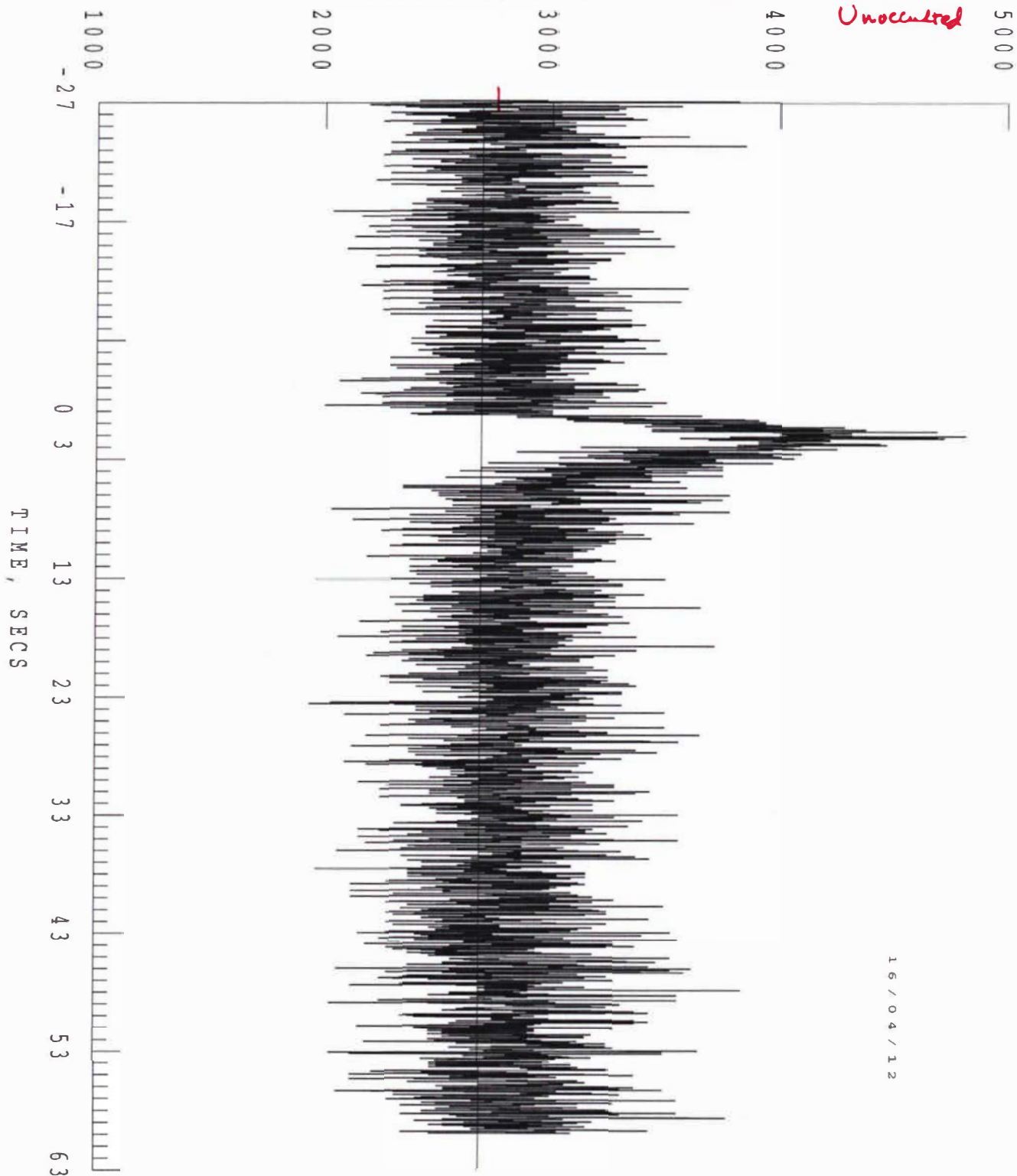
26- 293 keV

213.54, 16.73, 4.36

COUNTS/0.032 S

$L_{GRB/O/H} = 111.6^\circ$

Unoccluded



MS01

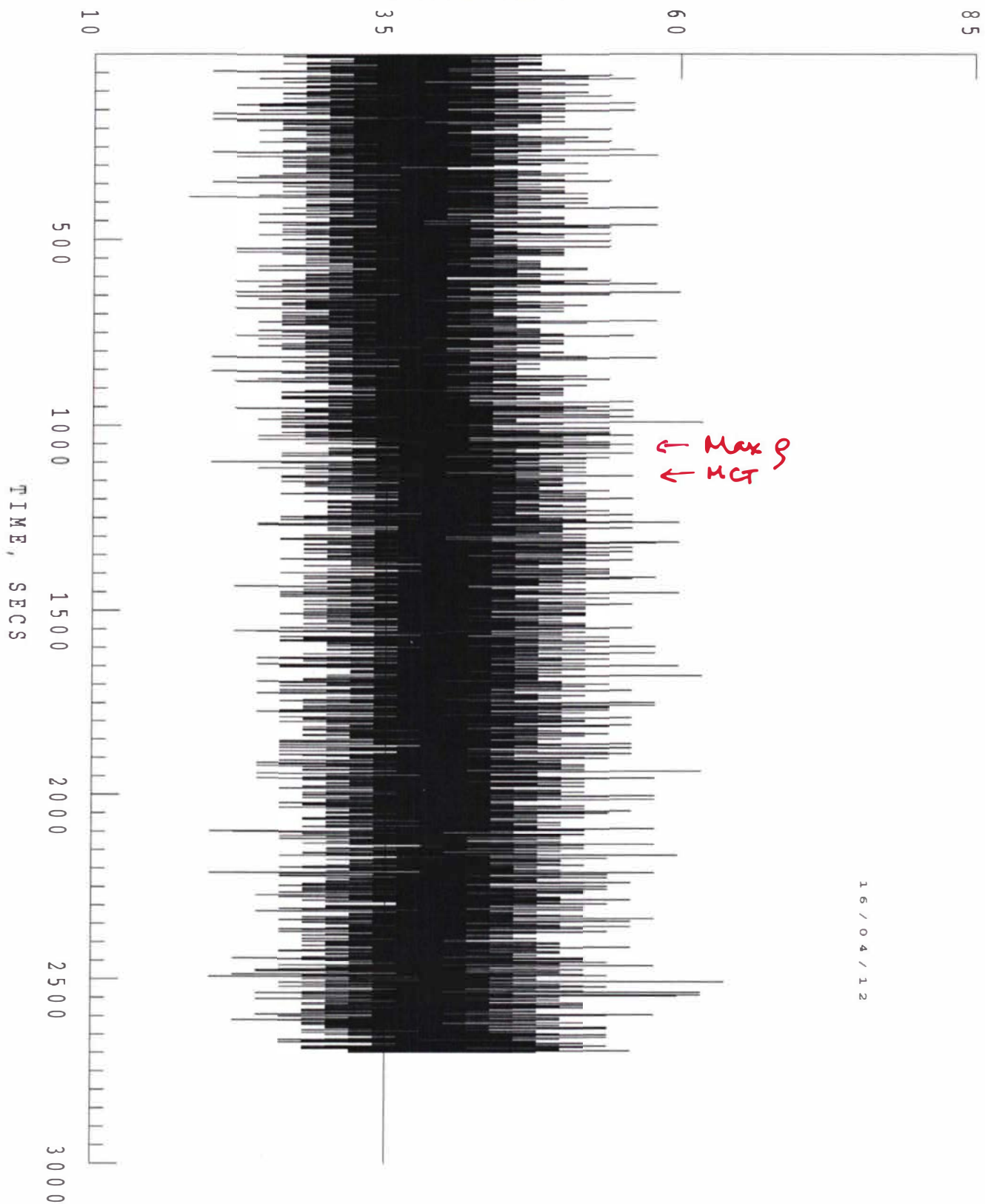
15/04/12

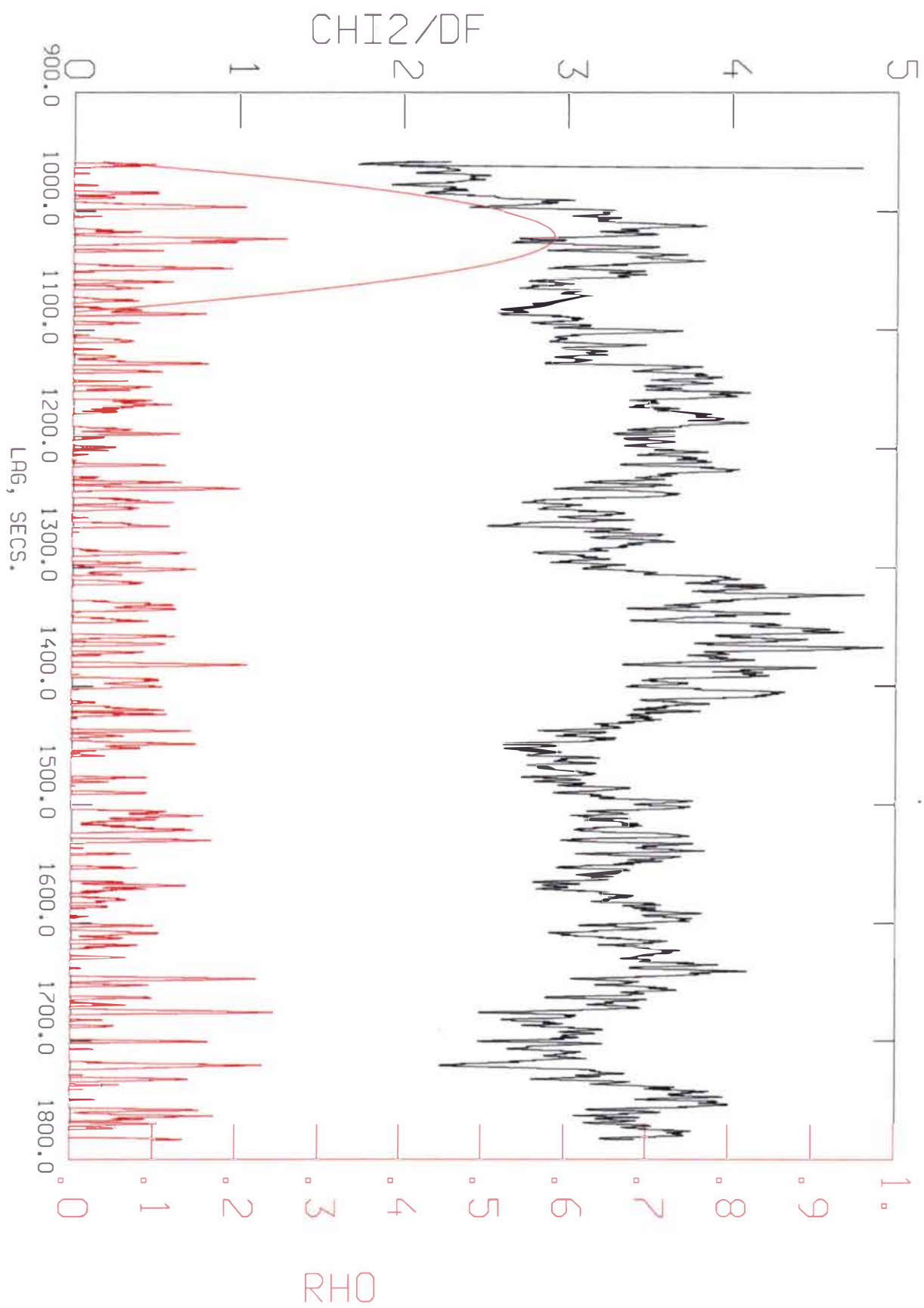
5227.192

A

50 - 3000 keV

COUNTS/0.250 S





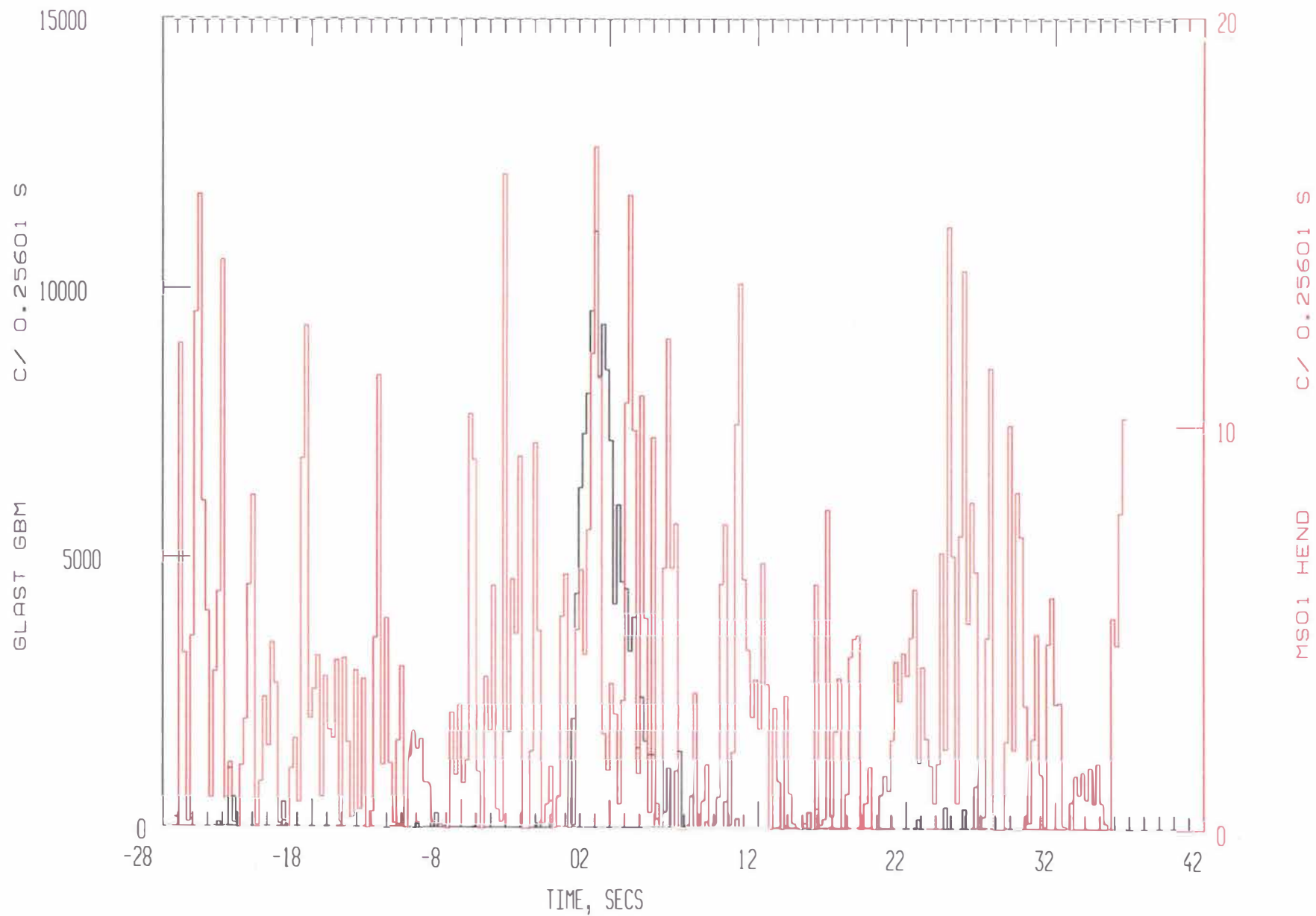
A

GLAST GBM -MSO1 HEND CORRELATION

15/04/12

6597.682

17/ 7/12

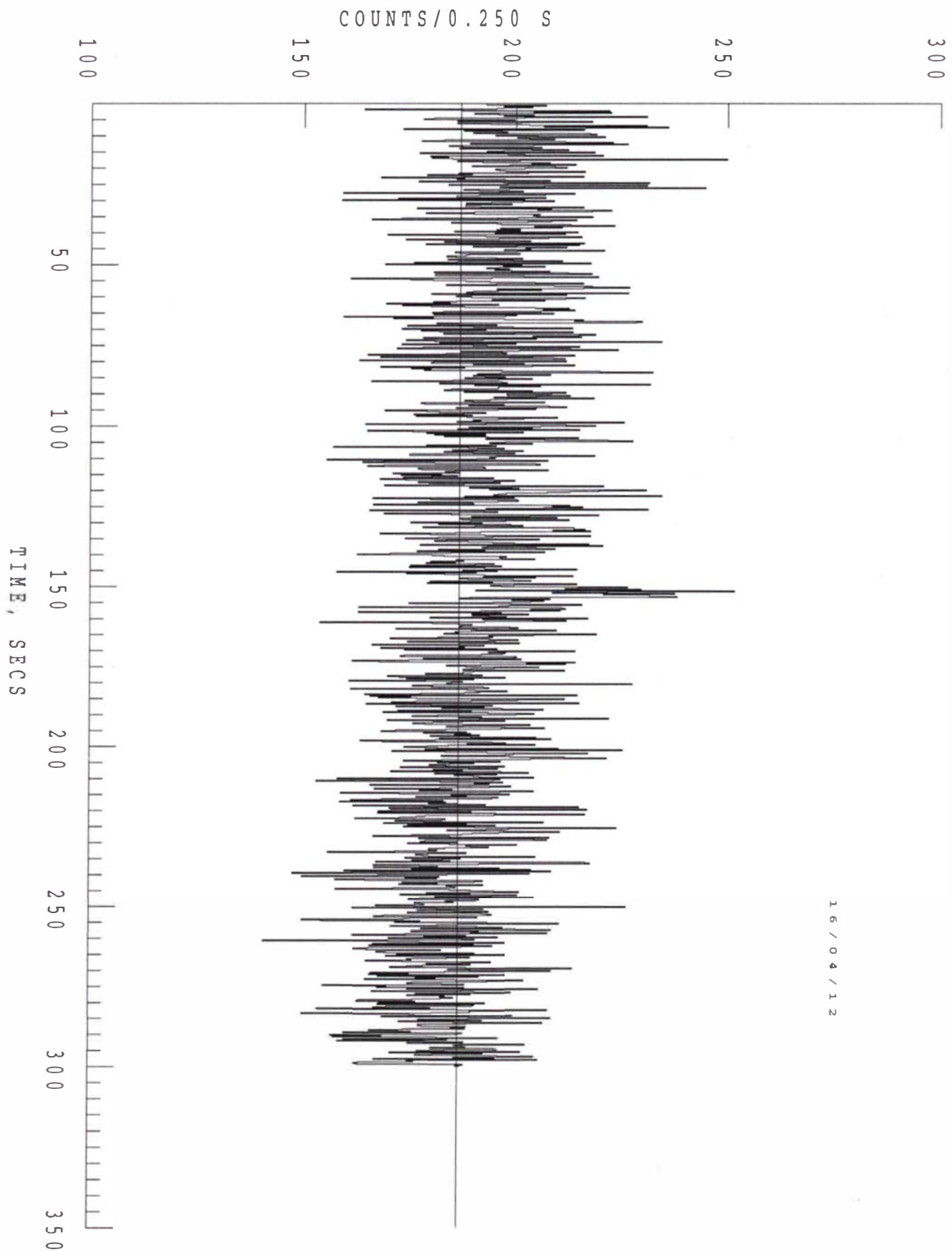


HESSI

15/04/12 6447.000 (GLAST_20120415_06597)

A

25- 150 keV

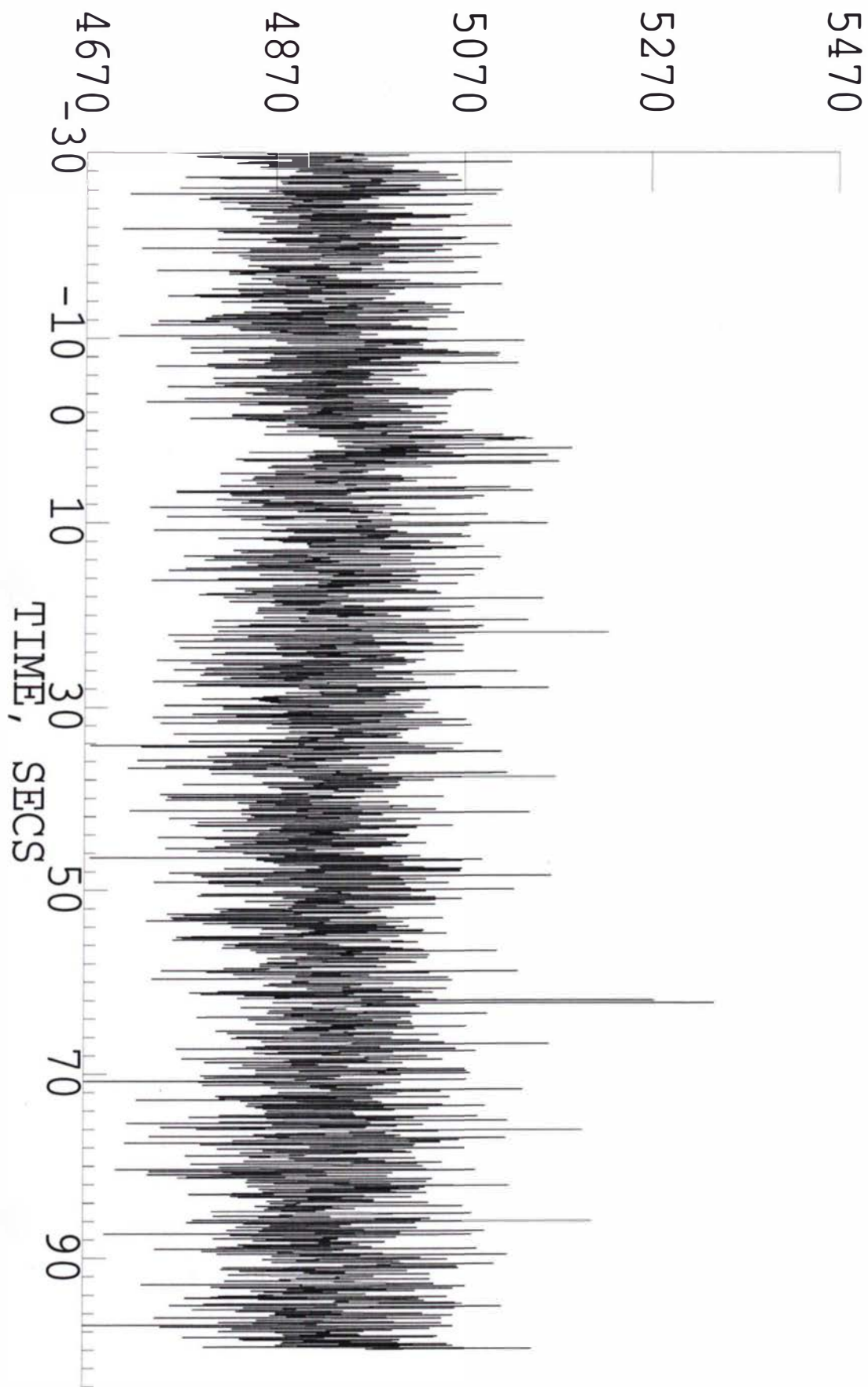


INTEGRAL 15/04/12 6597.023 01:49:57.0

A

100-10000 keV

COUNTS/ .050 S



Subject: [Ipn] BAT lightcurve for trigger at 120415_0149

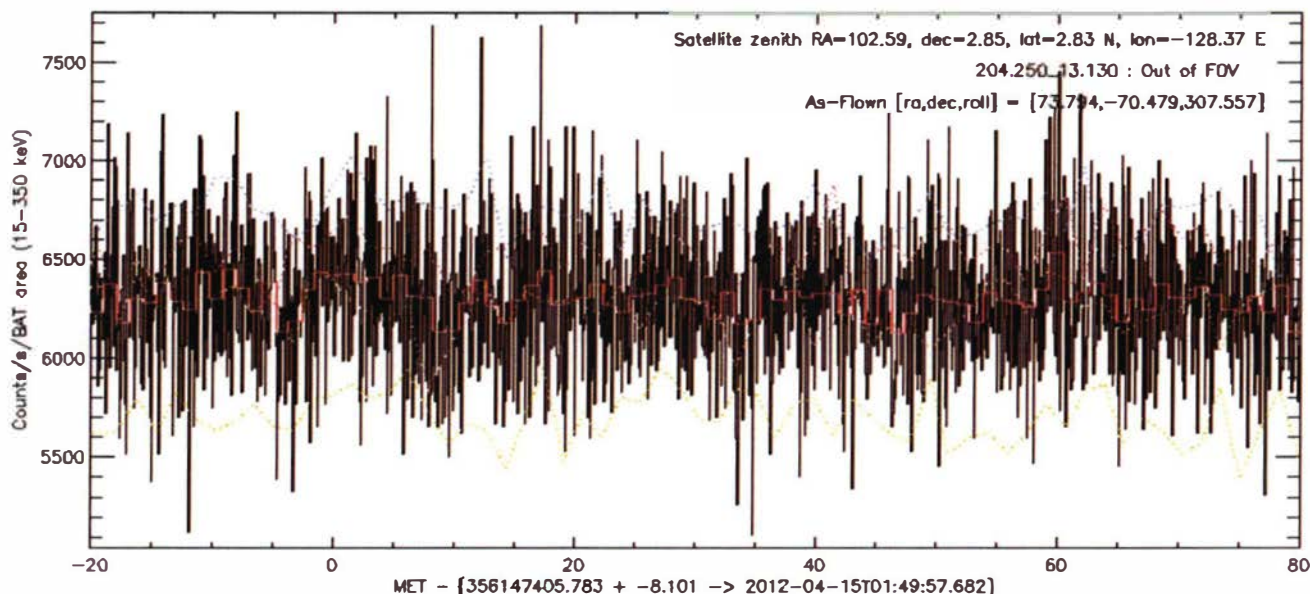
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/14/2012 9:29 PM

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/120415_0149.png



```
% /usr/local/bin/swinfo -o 356147405.783 -s 204.250_13.130
Time(MET + UTC -> UT):      356147405.783 + -8.101 -> 2012-04-15T01:49:57.682
Swift Zenith(RA,dec):       102.59, 2.85
Swift Location(lon,lat,alt): -128.37 E, 2.83 N, 587 km
Obs Sequence Number:        00032326007
Obs Target Name:             Nova LMC 2012
Obs Date and Times:          2012-04-15 01:44:53 - 01:59:52
Obs Pointing(ra,dec,roll):   73.794, -70.479, 307.56
204.250_13.130_imageloc (boresight_dist, angle): (115, 87)
204.250_13.130_exposure (cm^2 cos adjusted): 0
204.250_13.130_altitude: 13 (depressed but unattenuated)
```

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

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

Attachments:

/tmp/120415_0149_bat64ms_ipn	87.1 KB
/tmp/120415_0149.png	22.6 KB

A

17/07/12

MESSENGER

15/04/12

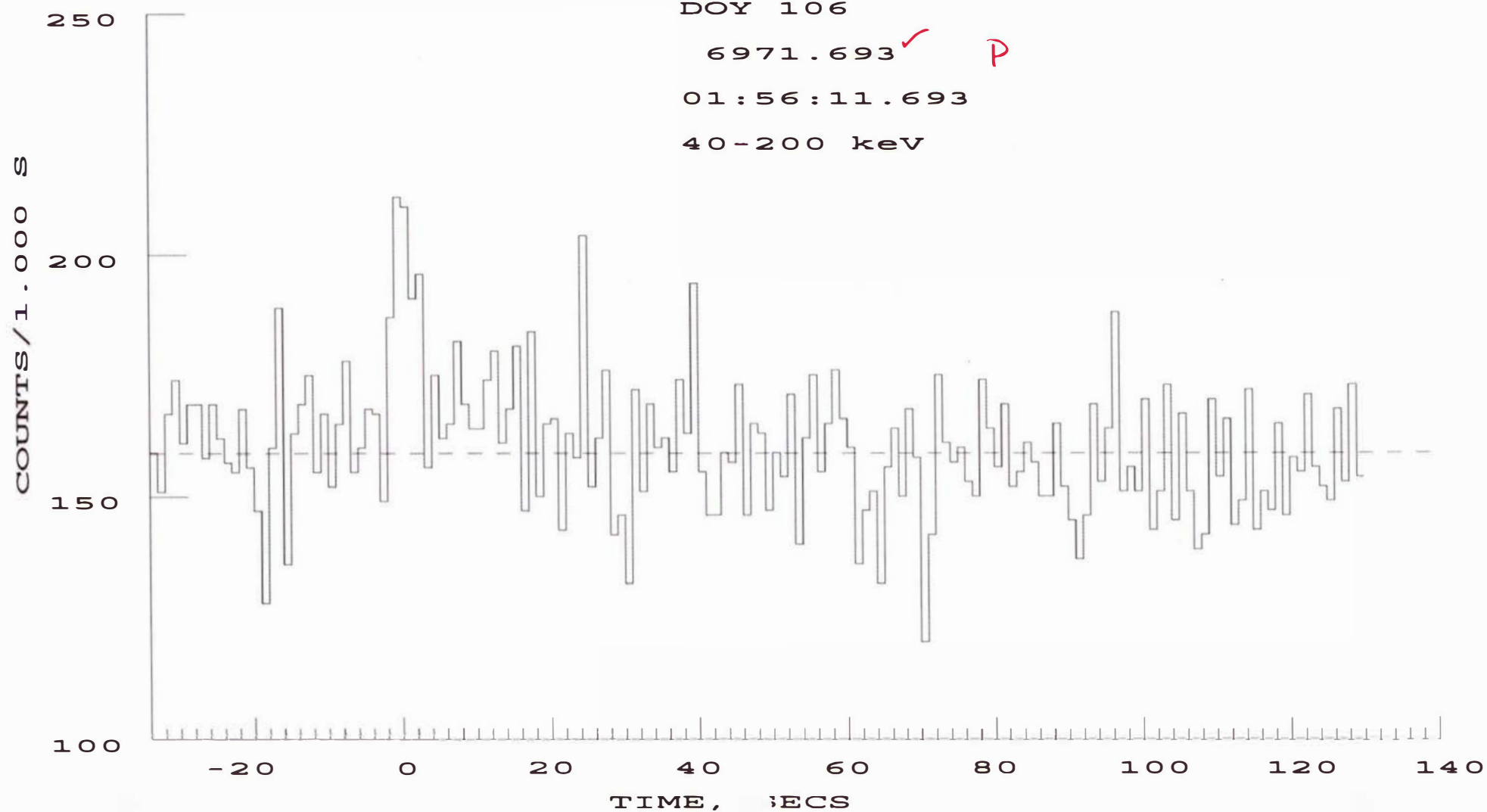
DOY 106

6971.693 ✓

P

01:56:11.693

40-200 keV



Subject: Suzaku/WAM TRN AUTOMATIC SEARCH: ae20120414_2351_2346_hxd_wam.uff

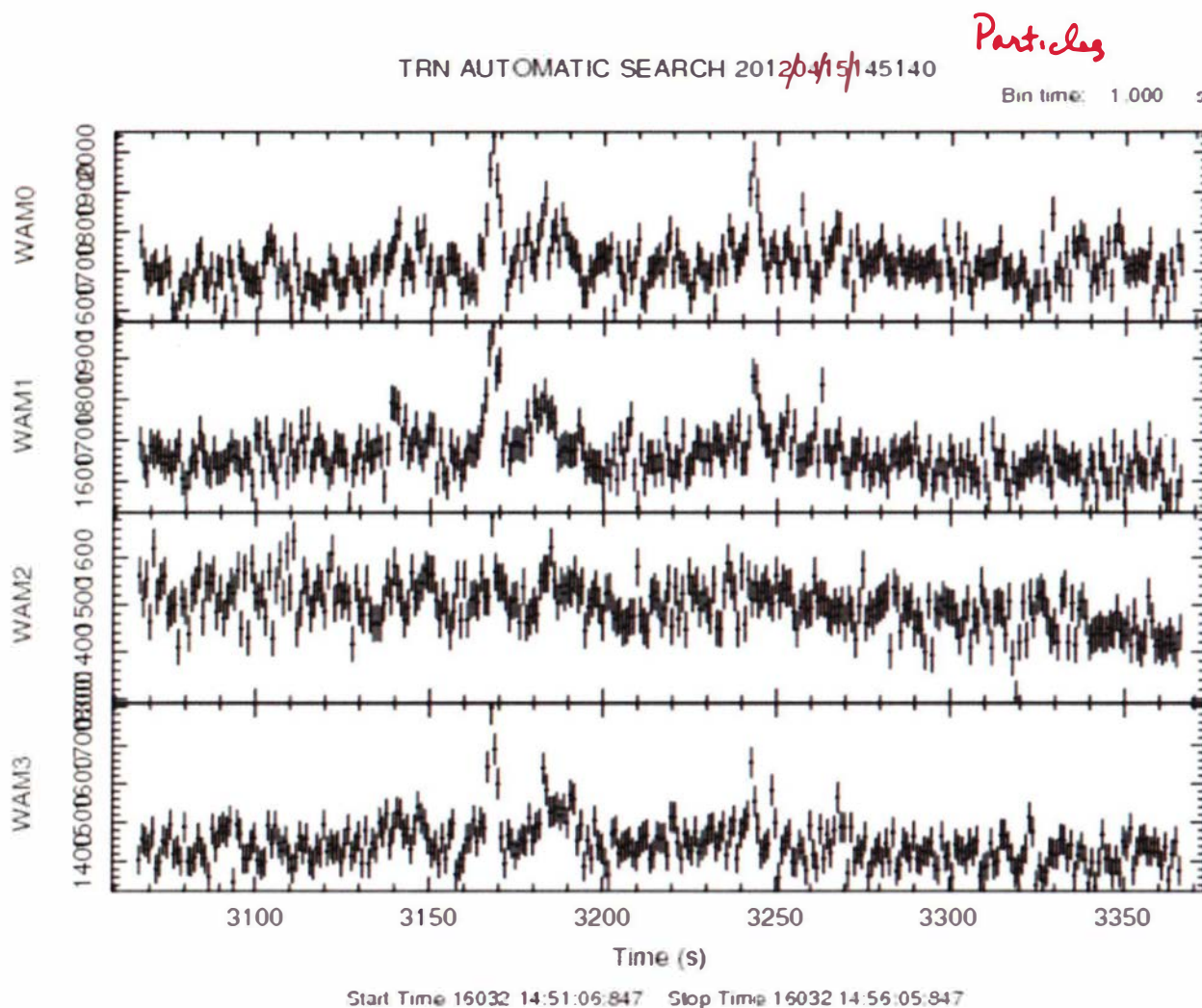
From: aetouban@astro.isas.jaxa.jp (Astro-E2 USC Duty Scientist)

Date: 4/16/2012 5:01 PM

To: hxd-grb@astro.isas.jaxa.jp, khurley@ssl.berkeley.edu, val@mail.ioffe.ru

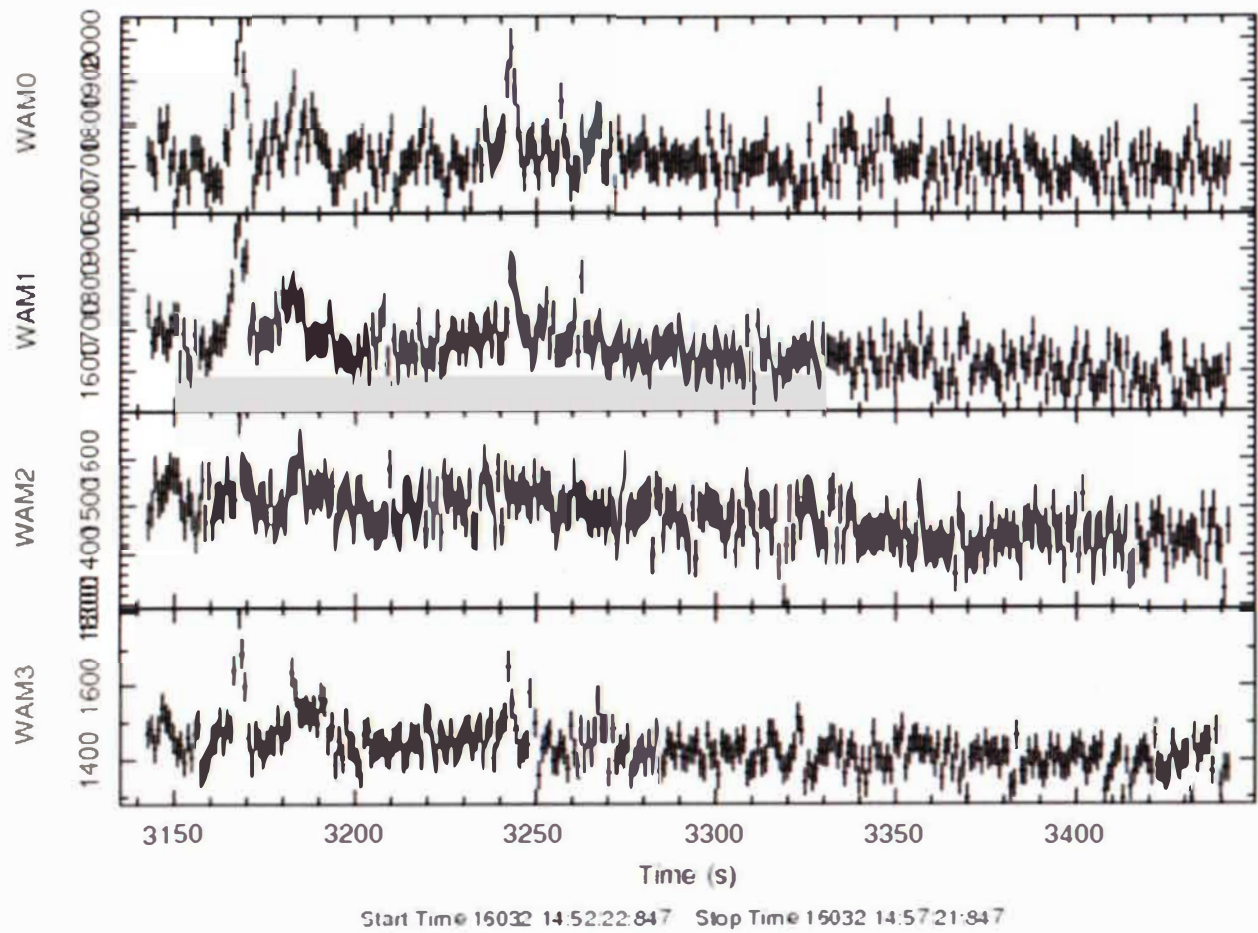
2012-04-15 14:51:40 3.8781670216261482e+08 5.6

2012-04-15 14:52:56 3.8781677816260350e+08 5.0



TRN AUTOMATIC SEARCH 20120414 15145256

Bin time: 1.000 s



GLAST

15/04/12

77021.026

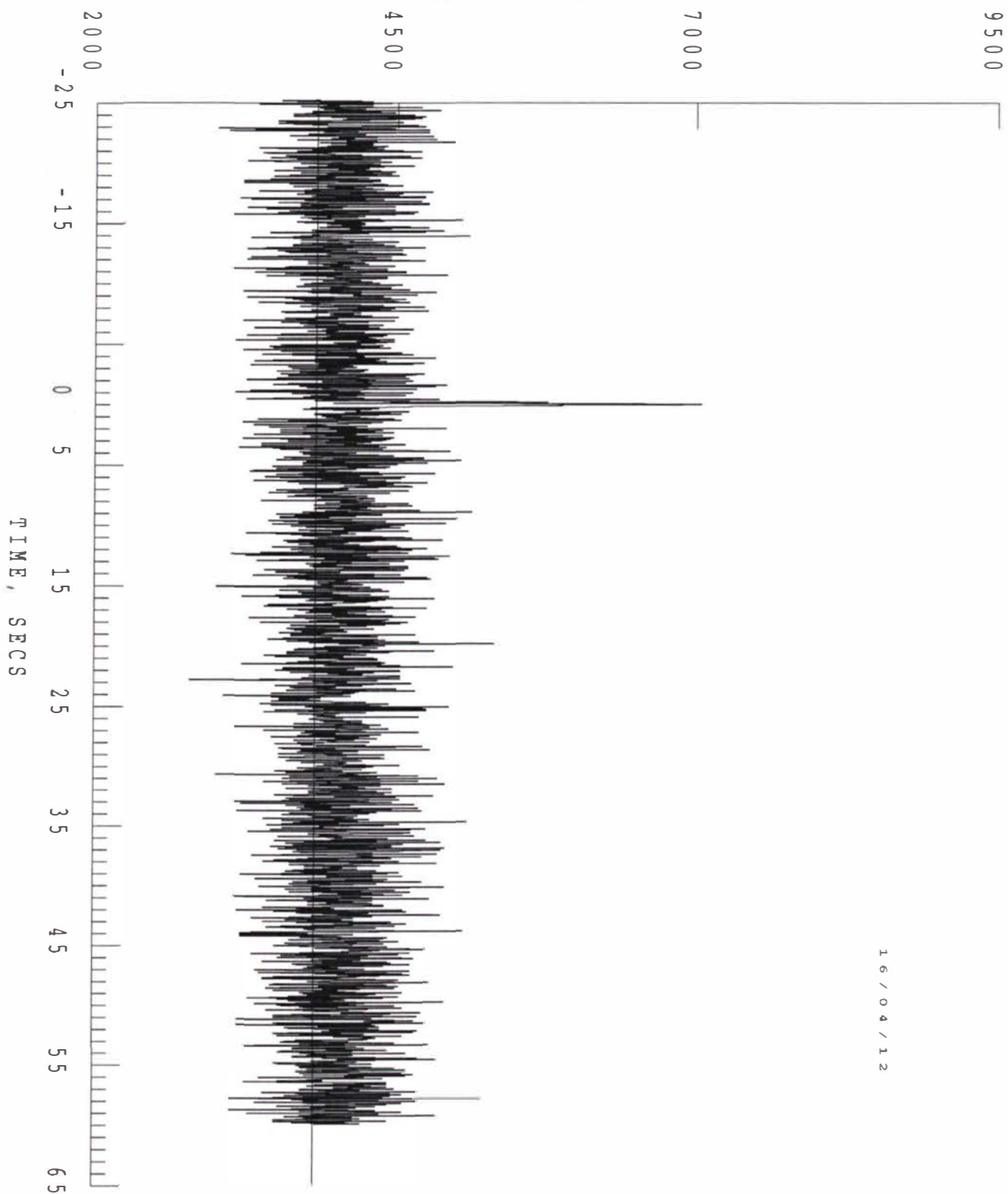
21:23:41

8C

26 - 293 keV

190.69, 4.91, 6.88

COUNTS/0.032 S



MS01

15/04/12

75665.934

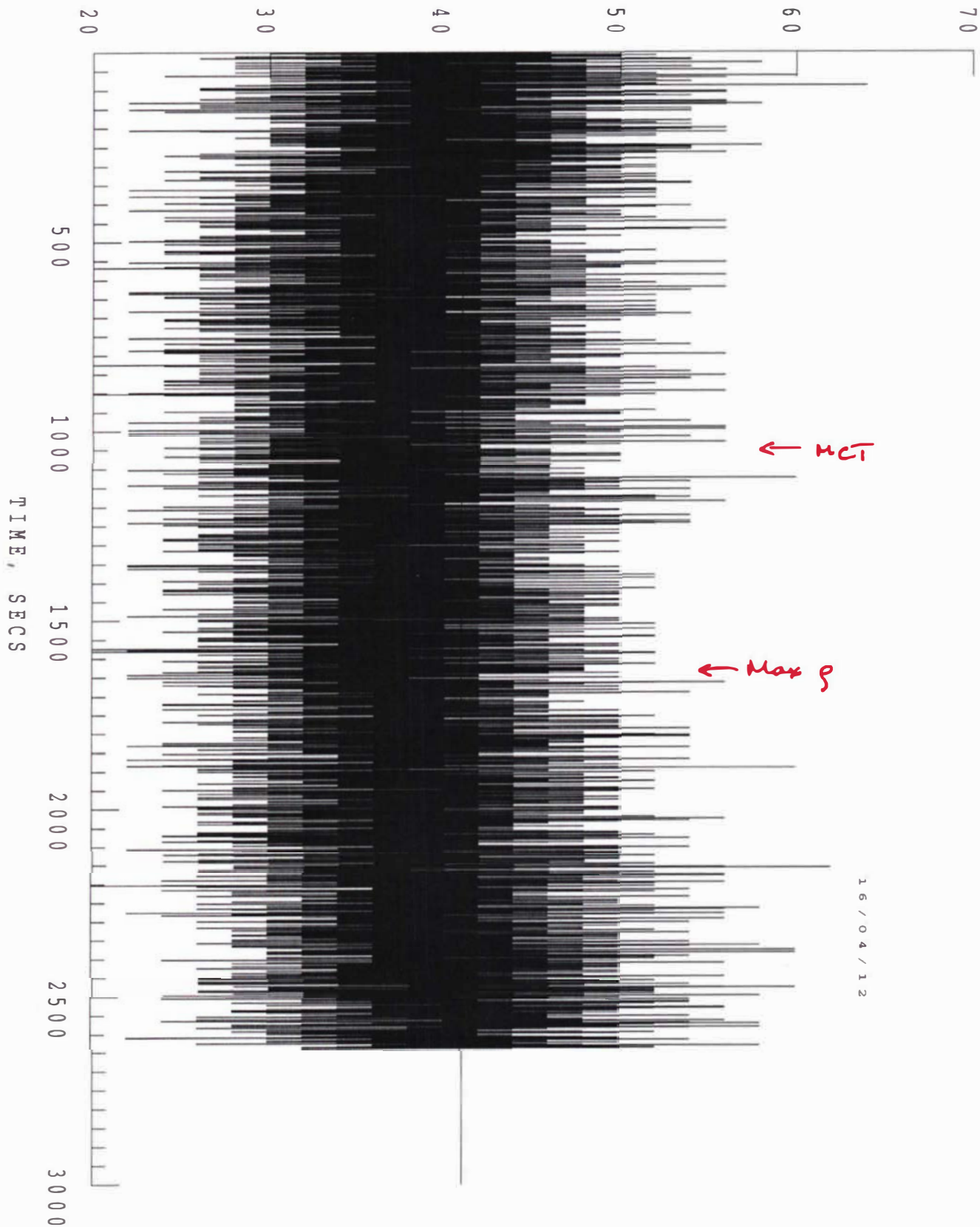
BC

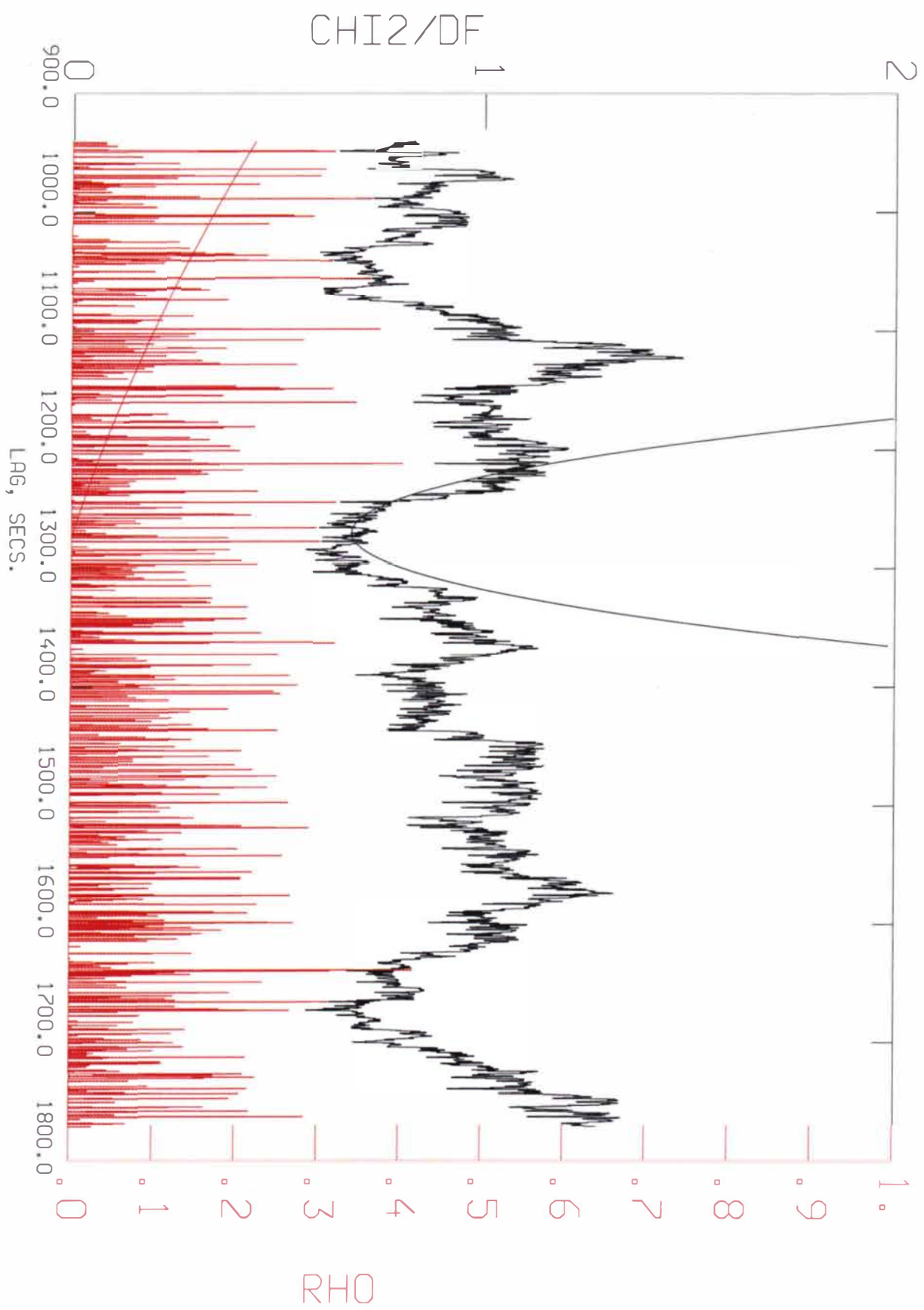
50 - 3000 keV

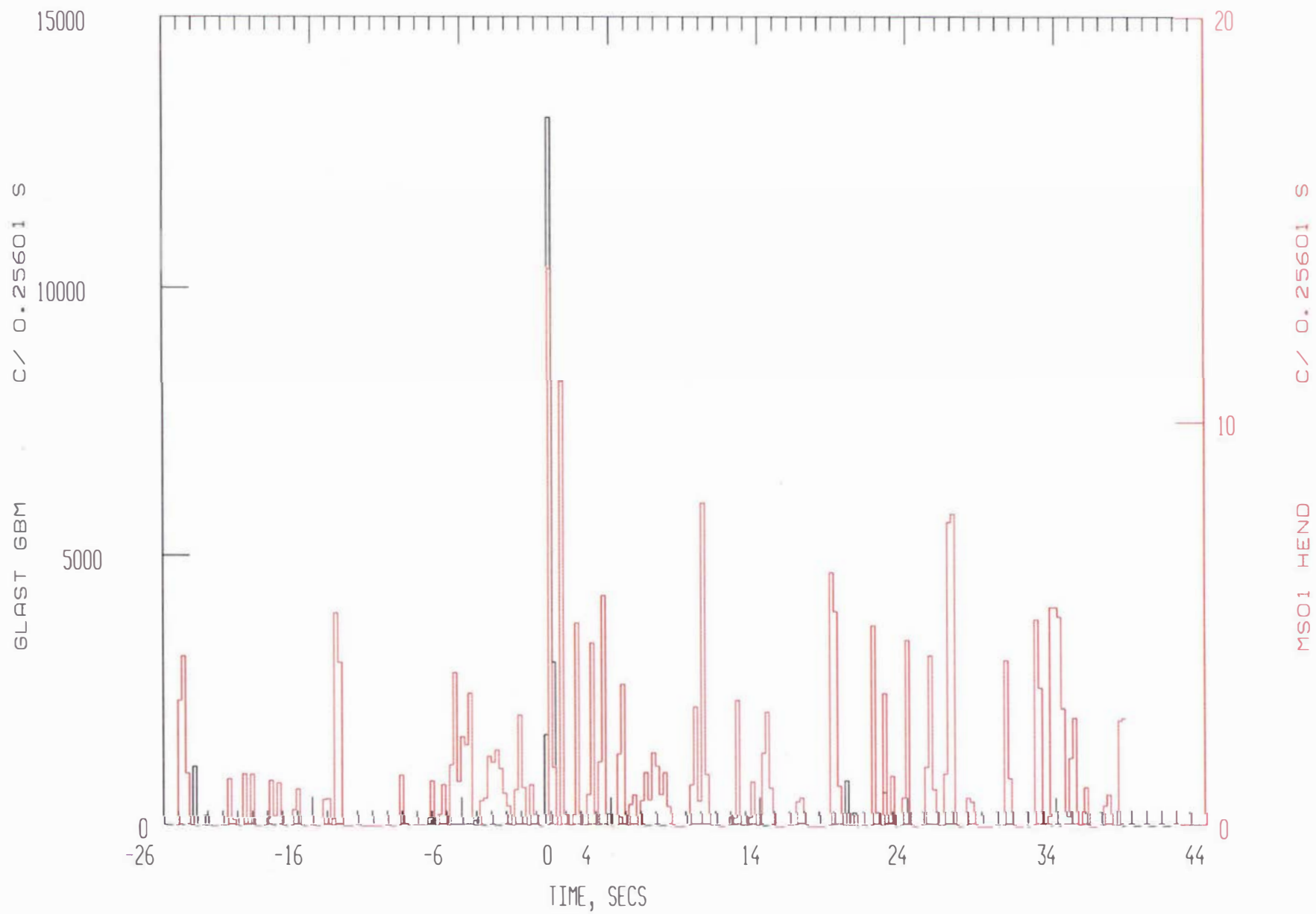
$\angle \text{GRB}/O/M = 104.5^\circ$

Unoccluded

COUNTS/0.250 S







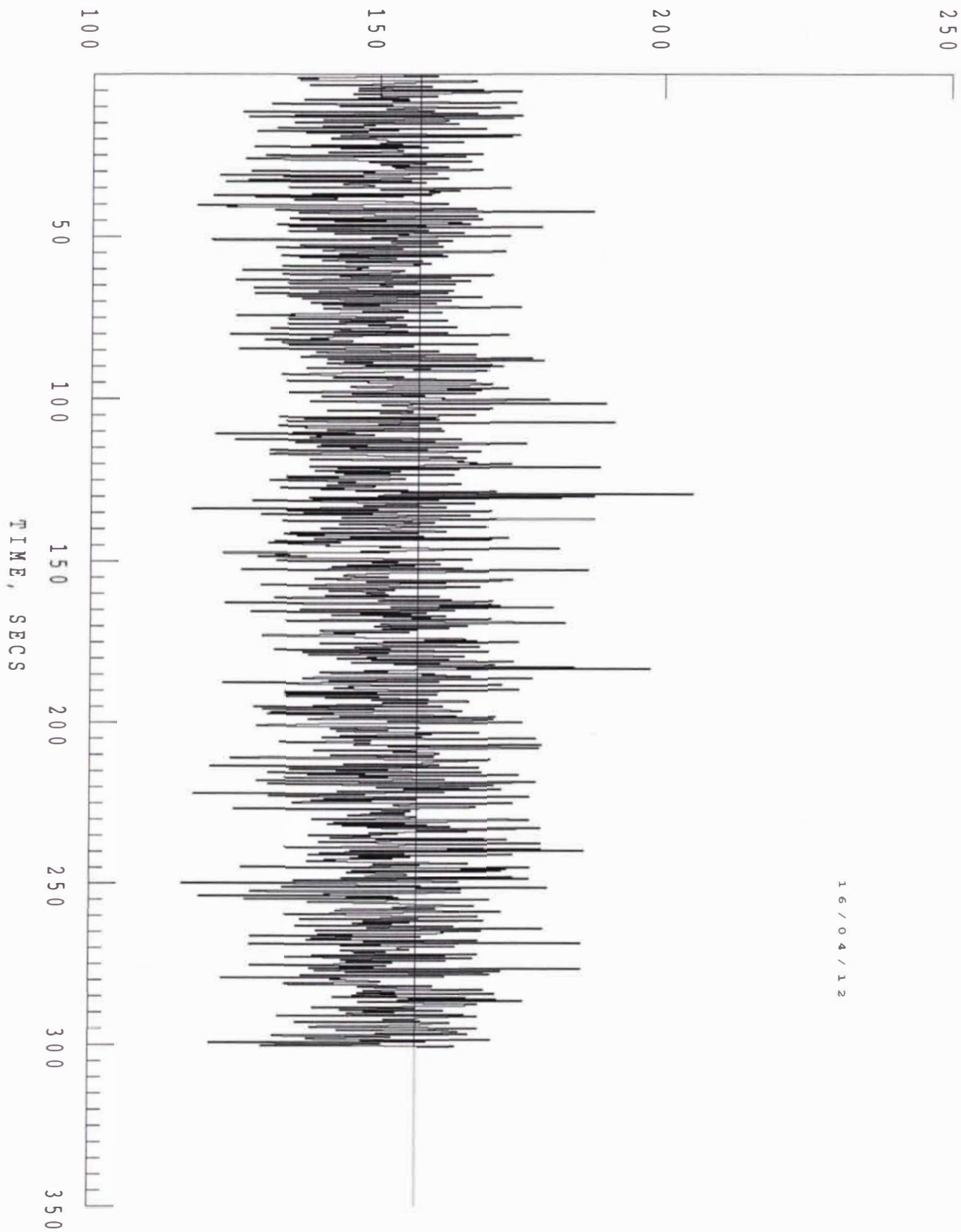
HESSI

15/04/12 76870.000 (INTEGRAL_20120415_77021)

BC

25- 150 keV

COUNTS/0.250 S



INTEGRAL

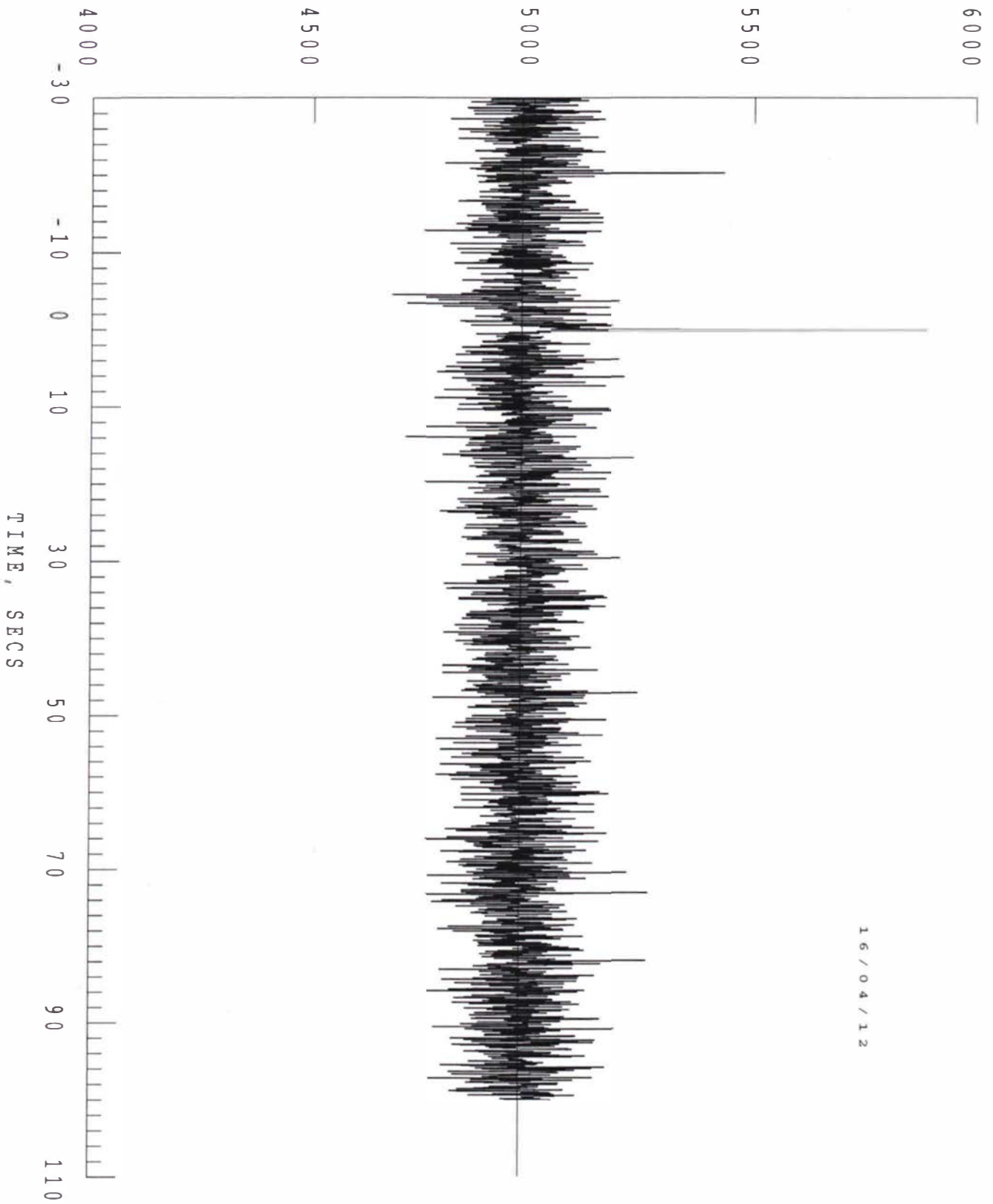
15/04/12

77021.015

BC

100-10000 keV

COUNTS/0.050 S



16/04/12

c

Subject: [Ipn] BAT lightcurve for trigger at 120415_2123

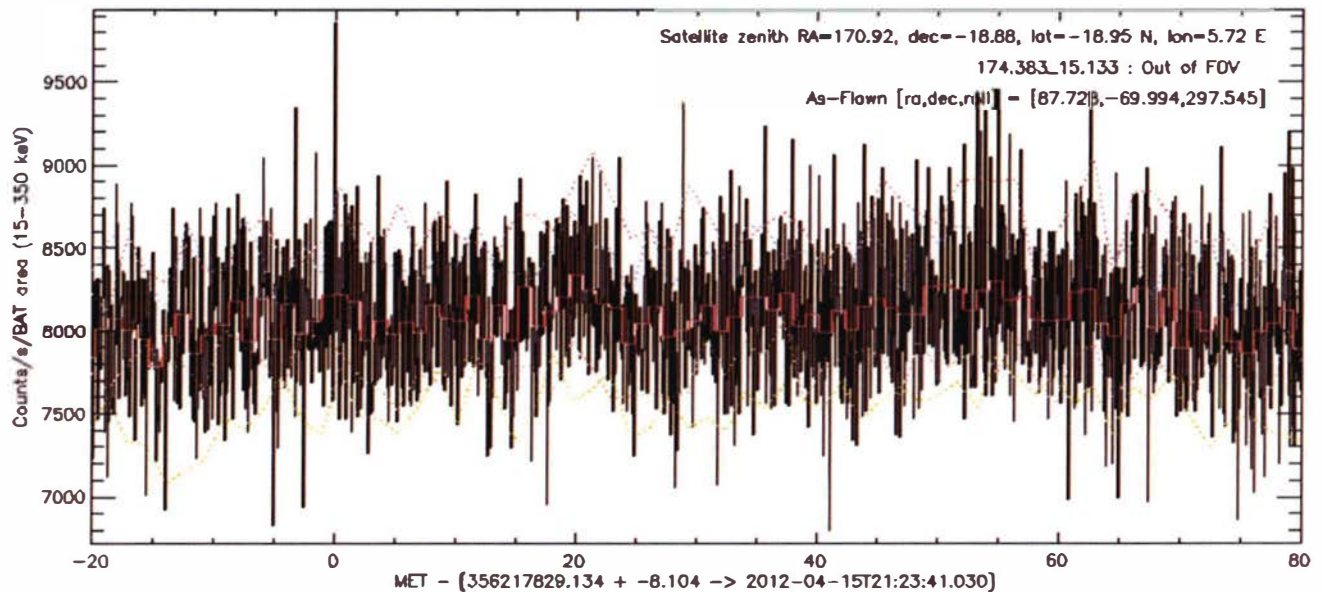
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/15/2012 6:33 PM

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/120415_2123.png



```
% /usr/local/bin/swinfo -o 356217829.134 -s 174.383_15.133
Time(MET + UTCF -> UT): 356217829.134 + -8.104 -> 2012-04-15T21:23:41.030
Swift Zenith(RA,dec): 170.92, -18.88
Swift Location(lon,lat,alt): 5.72 E, -18.95 N, 579 km
Obs Sequence Number: 00074336041
Obs Target Name: saa-cold-106-07
Obs Date and Times: 2012-04-15 21:03:52 - 21:26:49
Obs Pointing(ra,dec,roll): 87.728, -69.994, 297.55
174.383_15.133_imageloc (boresight_dist, angle): (103, 54)
174.383_15.133_exposure (cm^2 cos adjusted): 0
174.383_15.133_altitude: 79 (up)
```

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

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

Attachments:

/tmp/120415_2123.png	23.2 KB
/tmp/120415_2123_bat64ms_ipn	87.1 KB

GLAST

15/04/12

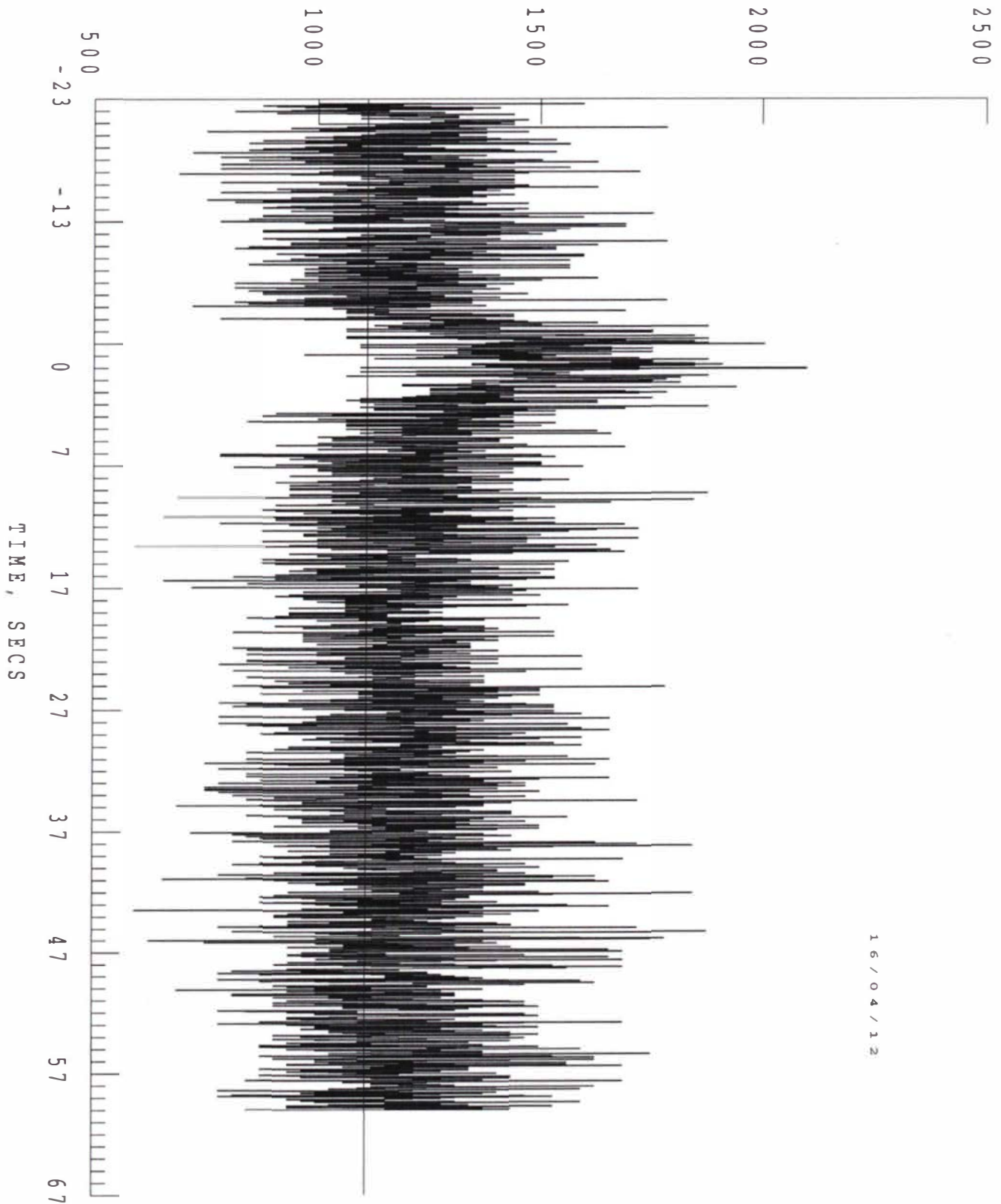
82759.133 22:59:19

ReD

26- 293 keV

150.460, 61.27, 4.96

COUNTS/0.032 S



MS01

15/04/12

81425.826

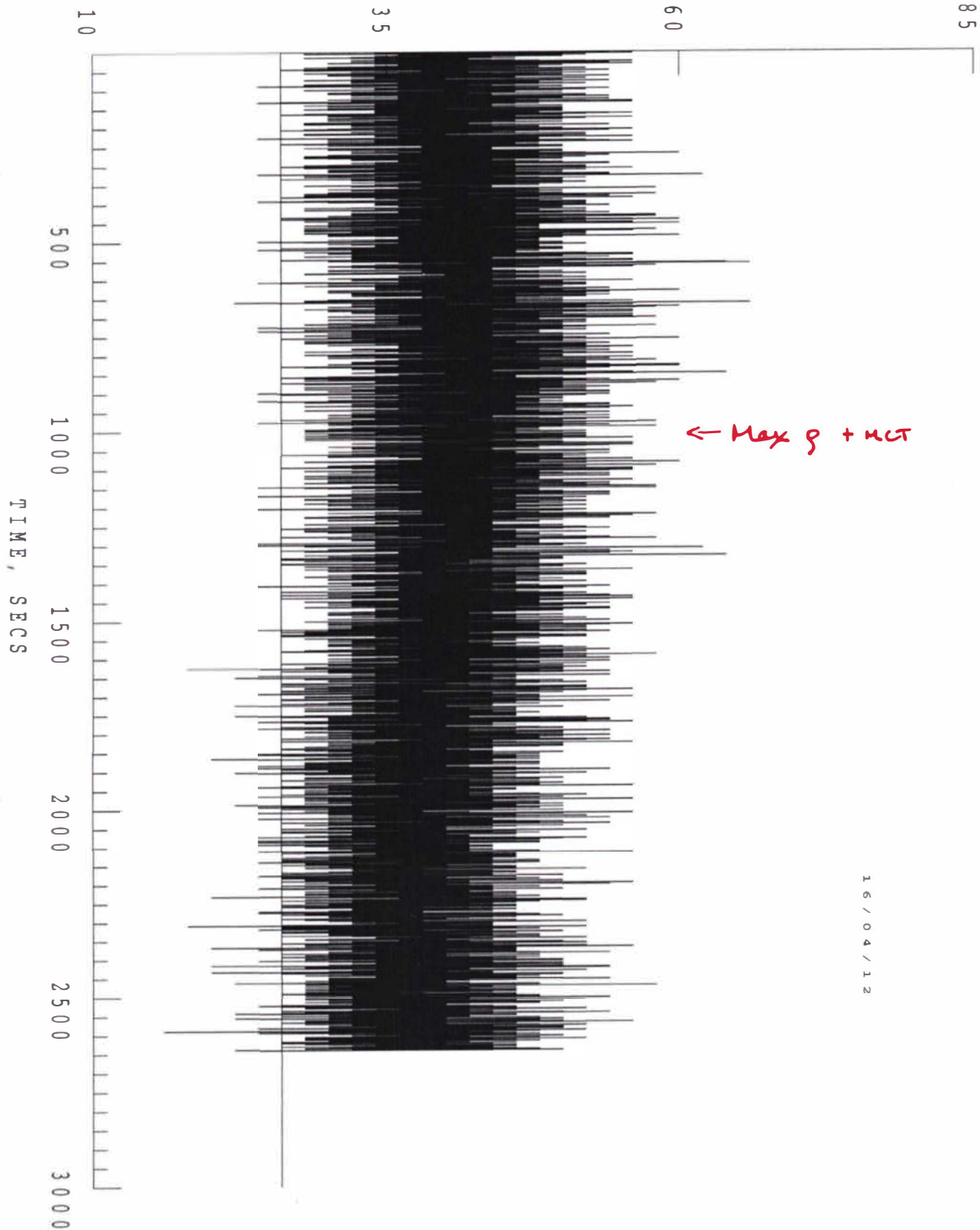
det D

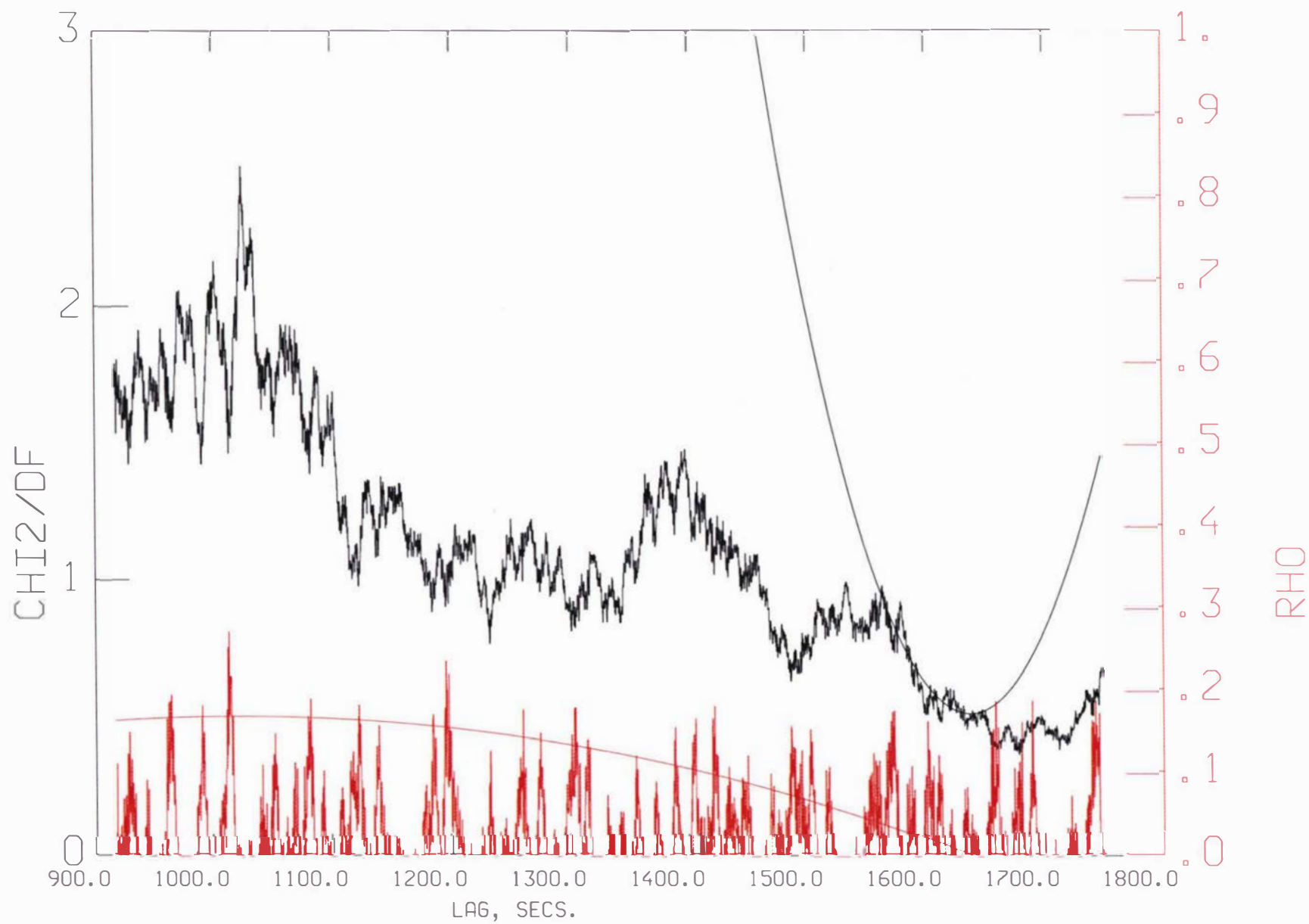
50 - 3000 keV

$\angle \text{GRB}/\text{O}/\text{M} = 94^\circ$

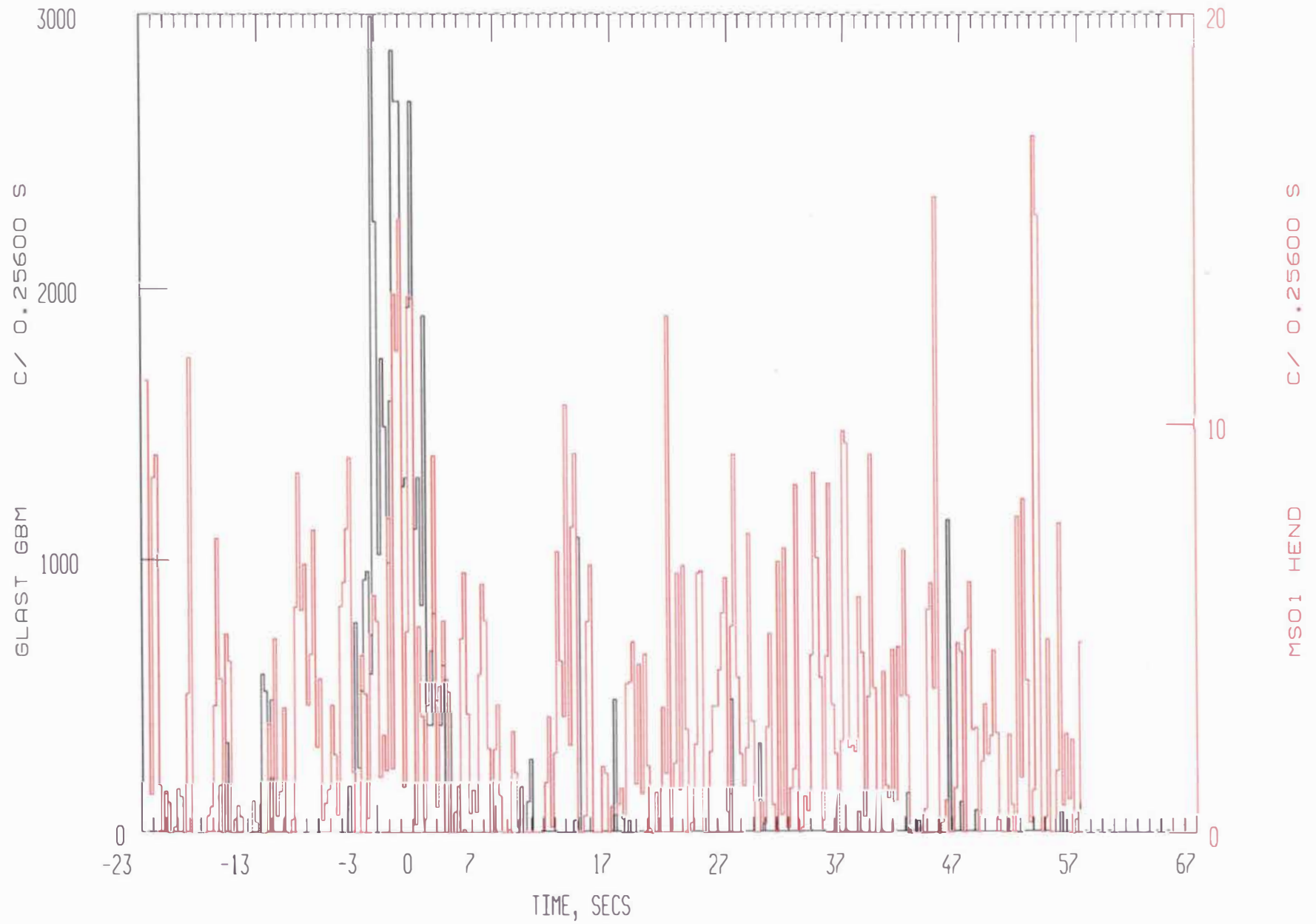
Unocculted

COUNTS/0.250 S





D

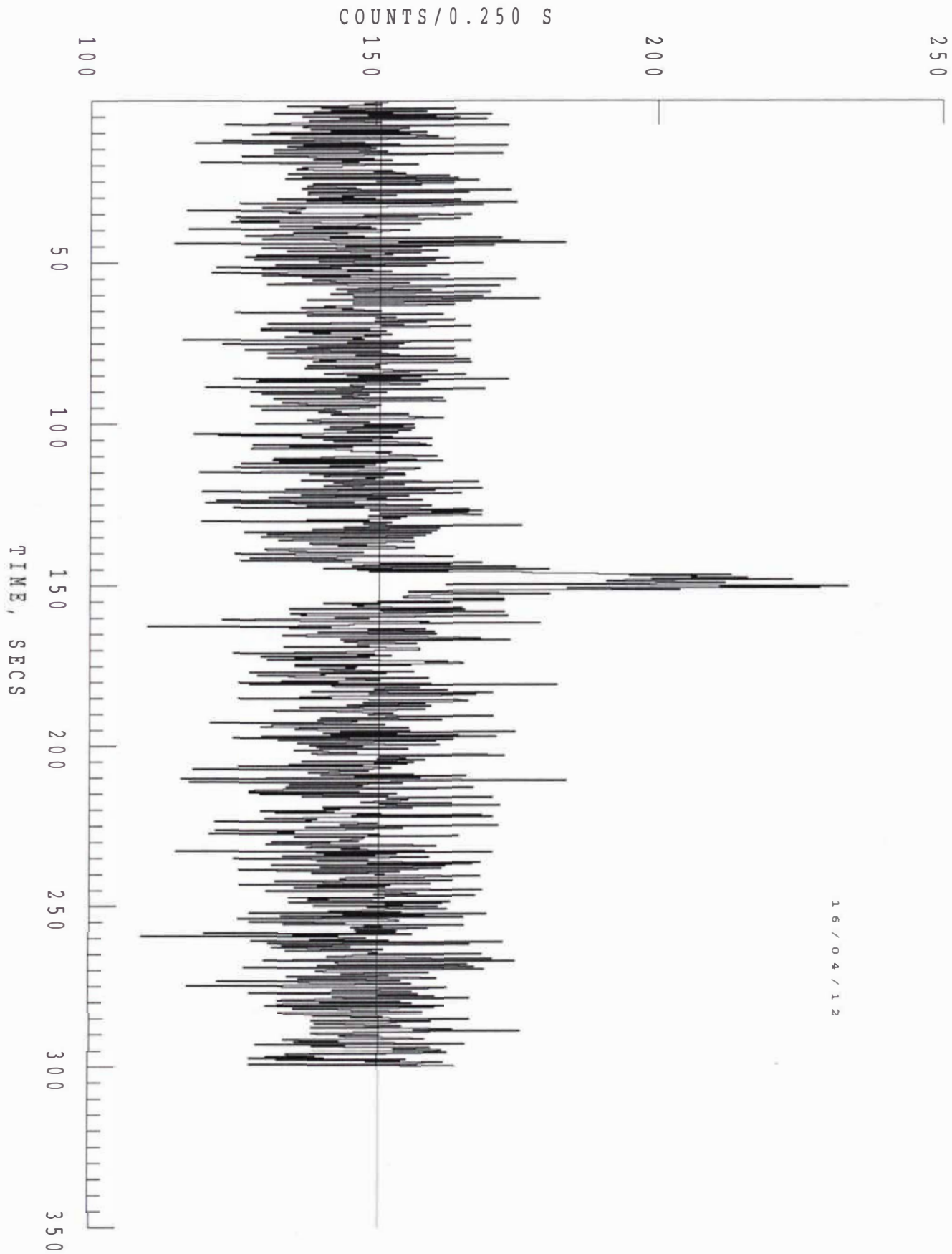


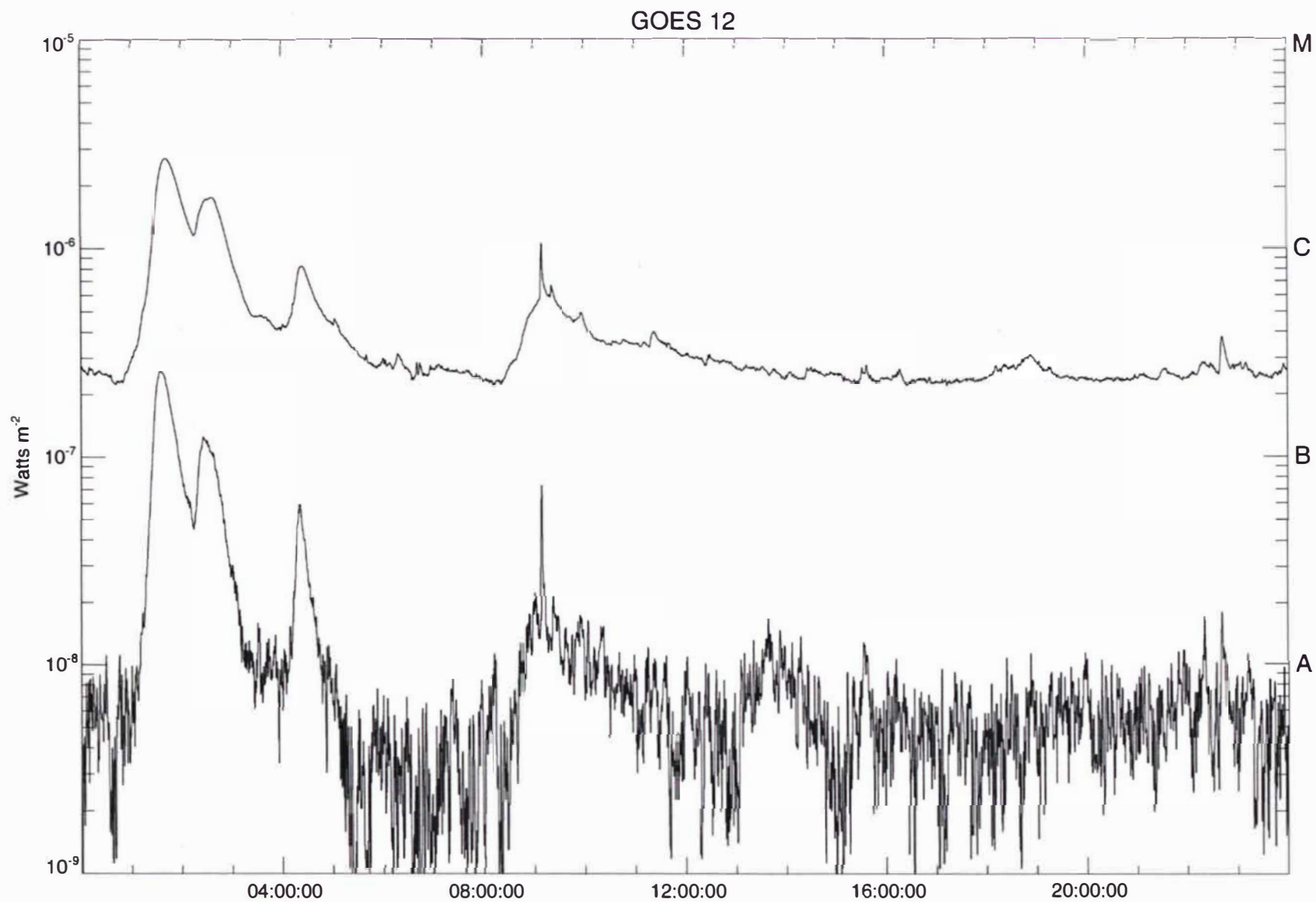
HESSI

15/04/12 82609.000 (GLAST_20120415_82759)

25- 150 keV

ED





Data Start: 12/04/15, 0000:10

Plot created: 12/04/18, 0842

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: RE: MESSENGER data
From: "Goldsten, John" <John.Goldsten@jhuapl.edu>
Date: 4/23/2012 10:14 AM
To: Kevin Hurley <khurley@ssl.berkeley.edu>
CC: "Ensor, Susan L." <Susan.Ensor@jhuapl.edu>

Hi Kevin,

As far as I know, access to the EDR files via the SOC has not changed since we entered the extended mission phase, but perhaps Susan can comment. I have had no trouble getting into the SOC with the usual password.

Perhaps the problem is that the NS high voltage was disabled from approximately April 15-21 to accommodate the spacecraft engine burn to shorten the orbit about Mercury from 12 to 8 hr. This would explain why you wouldn't see any GAB records from DOY 108-111.

Regards,
John

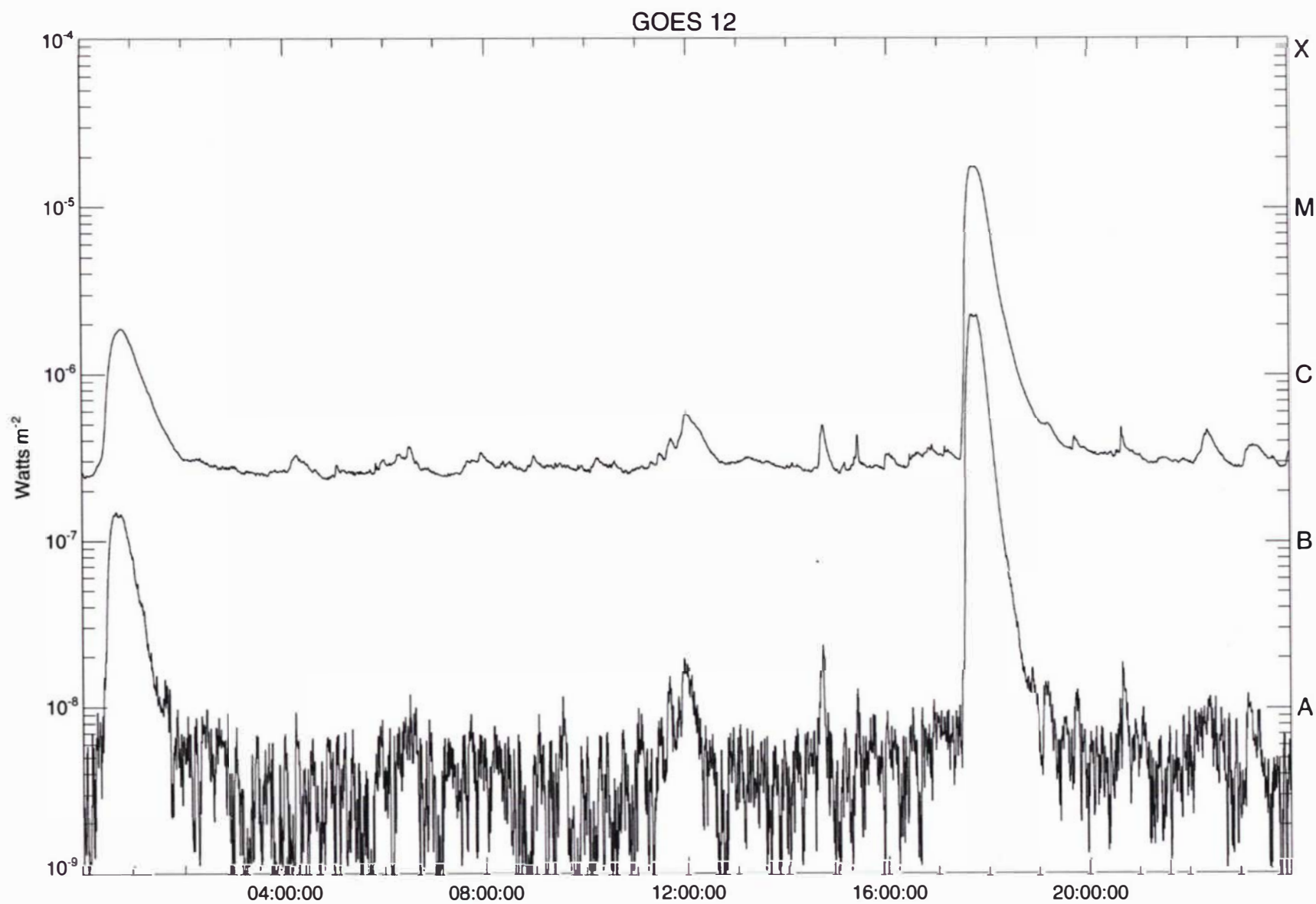
-----Original Message-----

From: Kevin Hurley [<mailto:khurley@ssl.berkeley.edu>]
Sent: Monday, April 23, 2012 12:31 PM
To: Goldsten, John; khurley@ssl.berkeley.edu
Subject: MESSENGER data

Dear John,

I have not been able to get into the MESSENGER server for several days now. Has there been a password change?

Kevin



Data Start: 12/04/16, 0000:10

Plot created: 12/04/19, 0843

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: RE: MESSENGER data
From: "Goldsten, John" <John.Goldsten@jhuapl.edu>
Date: 4/23/2012 10:14 AM
To: Kevin Hurley <khurley@ssl.berkeley.edu>
CC: "Ensor, Susan L." <Susan.Ensor@jhuapl.edu>

Hi Kevin,

As far as I know, access to the EDR files via the SOC has not changed since we entered the extended mission phase, but perhaps Susan can comment. I have had no trouble getting into the SOC with the usual password.

Perhaps the problem is that the NS high voltage was disabled from approximately April 15-21 to accommodate the spacecraft engine burn to shorten the orbit about Mercury from 12 to 8 hr. This would explain why you wouldn't see any GAB records from DOY 108-111.

Regards,
John

-----Original Message-----

From: Kevin Hurley [<mailto:khurley@ssl.berkeley.edu>]
Sent: Monday, April 23, 2012 12:31 PM
To: Goldsten, John; khurley@ssl.berkeley.edu
Subject: MESSENGER data

Dear John,

I have not been able to get into the MESSENGER server for several days now. Has there been a password change?

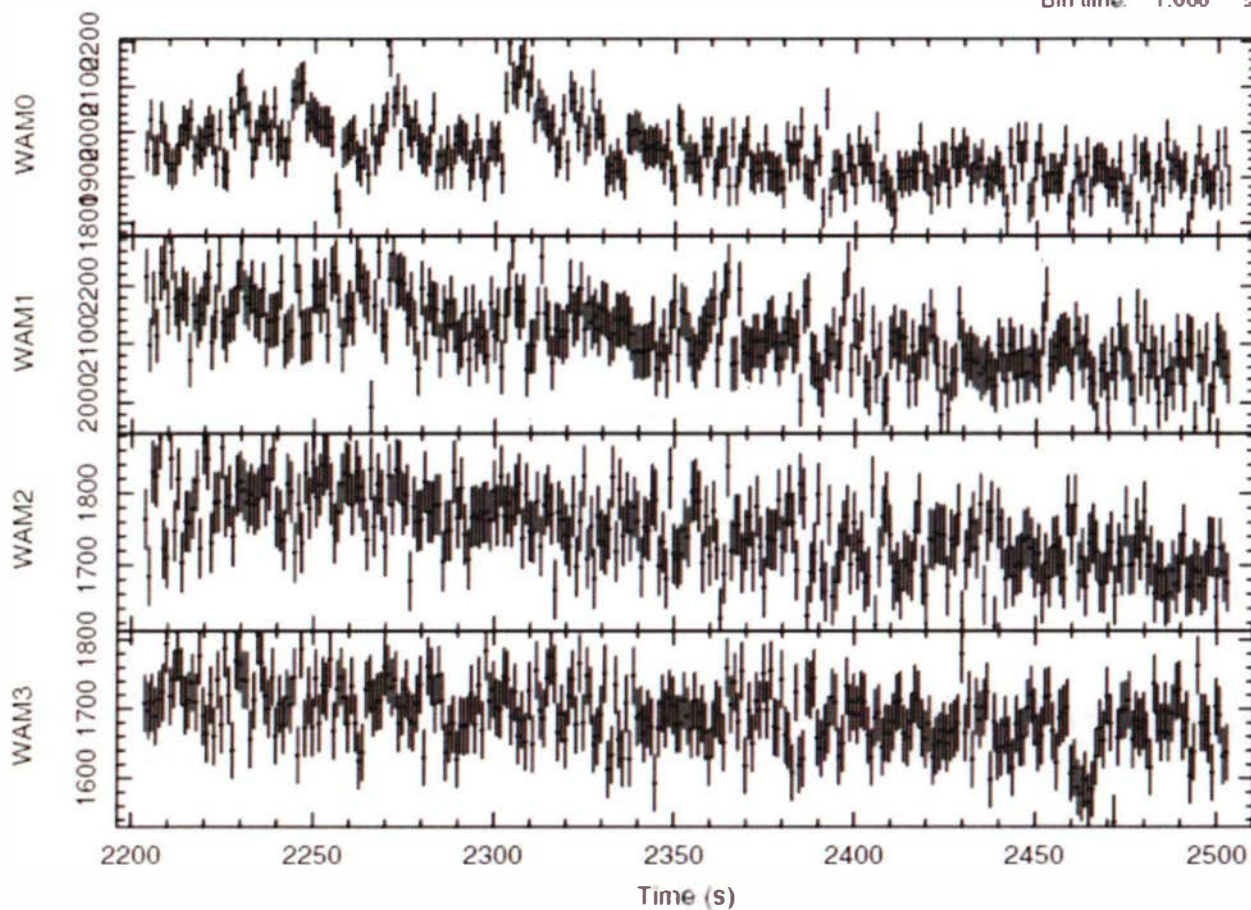
Kevin

A

TRN AUTOMATIC SEARCH 20120417 63717

59837 Solar?

Bin time: 1.000 s

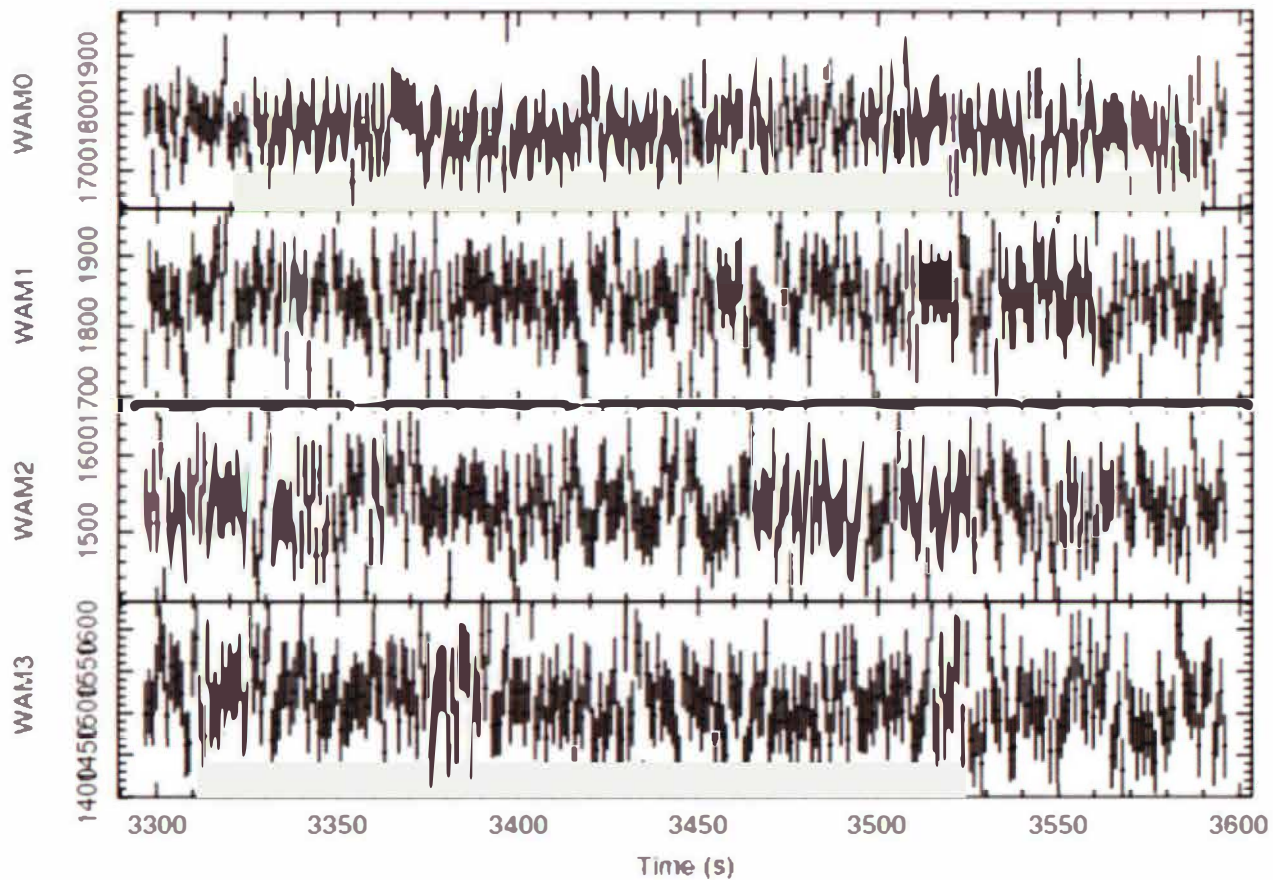


Start Time 16034 16:36:43.820 Stop Time 16034 16:41:42.820

Not in Suzaku List

TRN AUTOMATIC SEARCH 20120417165530

Bin time: 1.000 s



Start Time 16034 16:54:56.820 Stop Time 16034 16:59:55.820

INTEGRAL

17/04/12

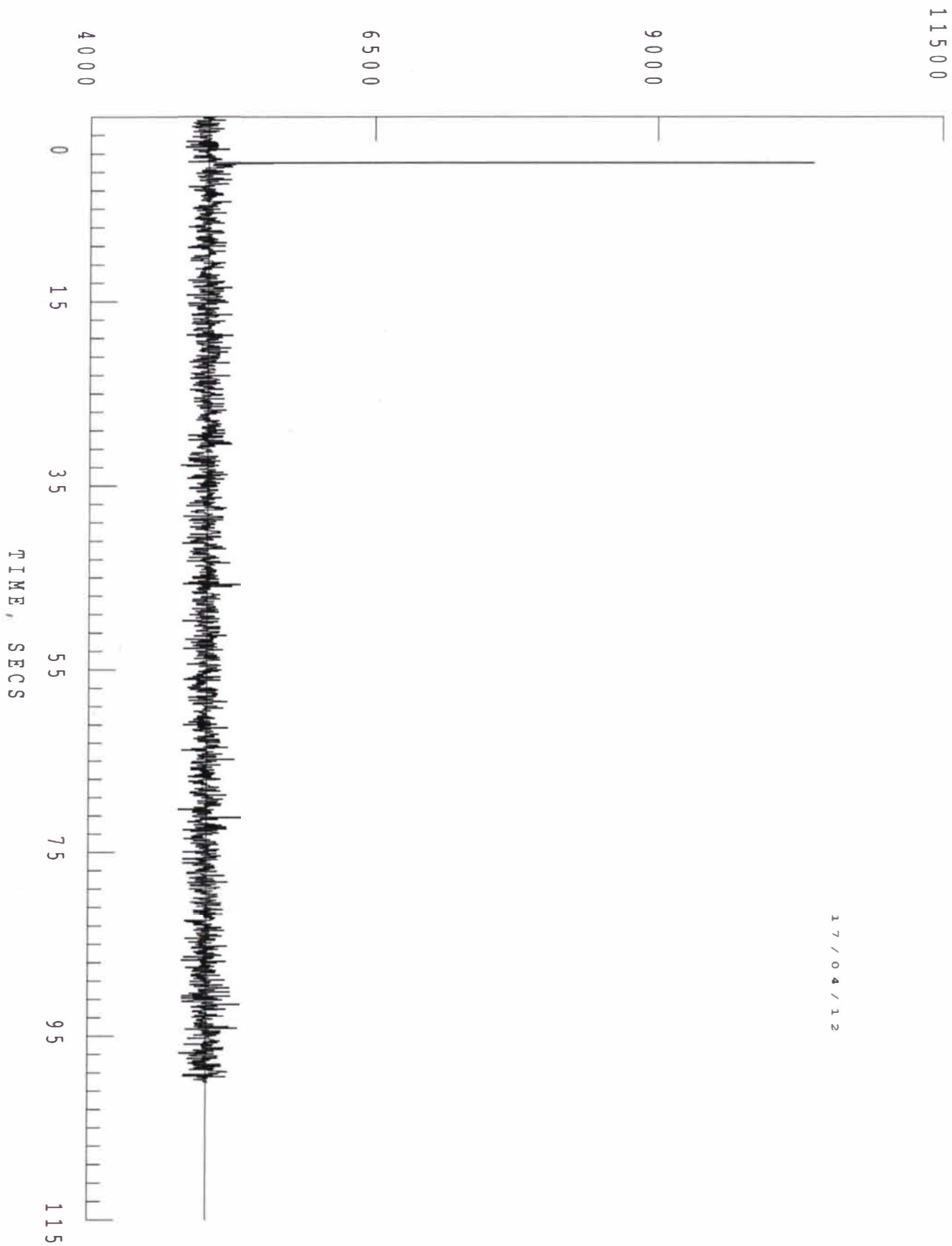
83875.982

23:17:55

C

100-10000 keV

COUNTS/0.050 S



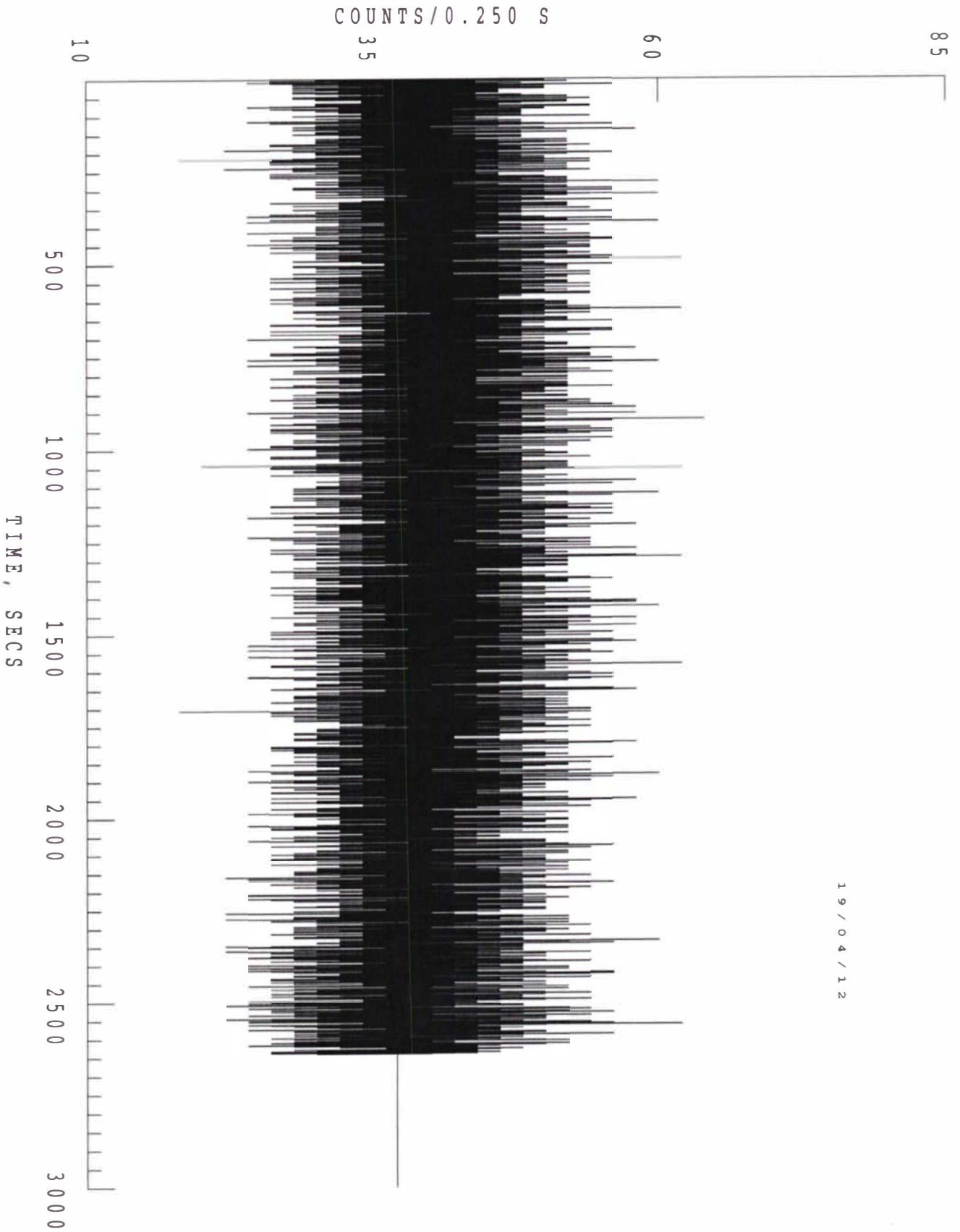
MS01

17/04/12

82562.696

C

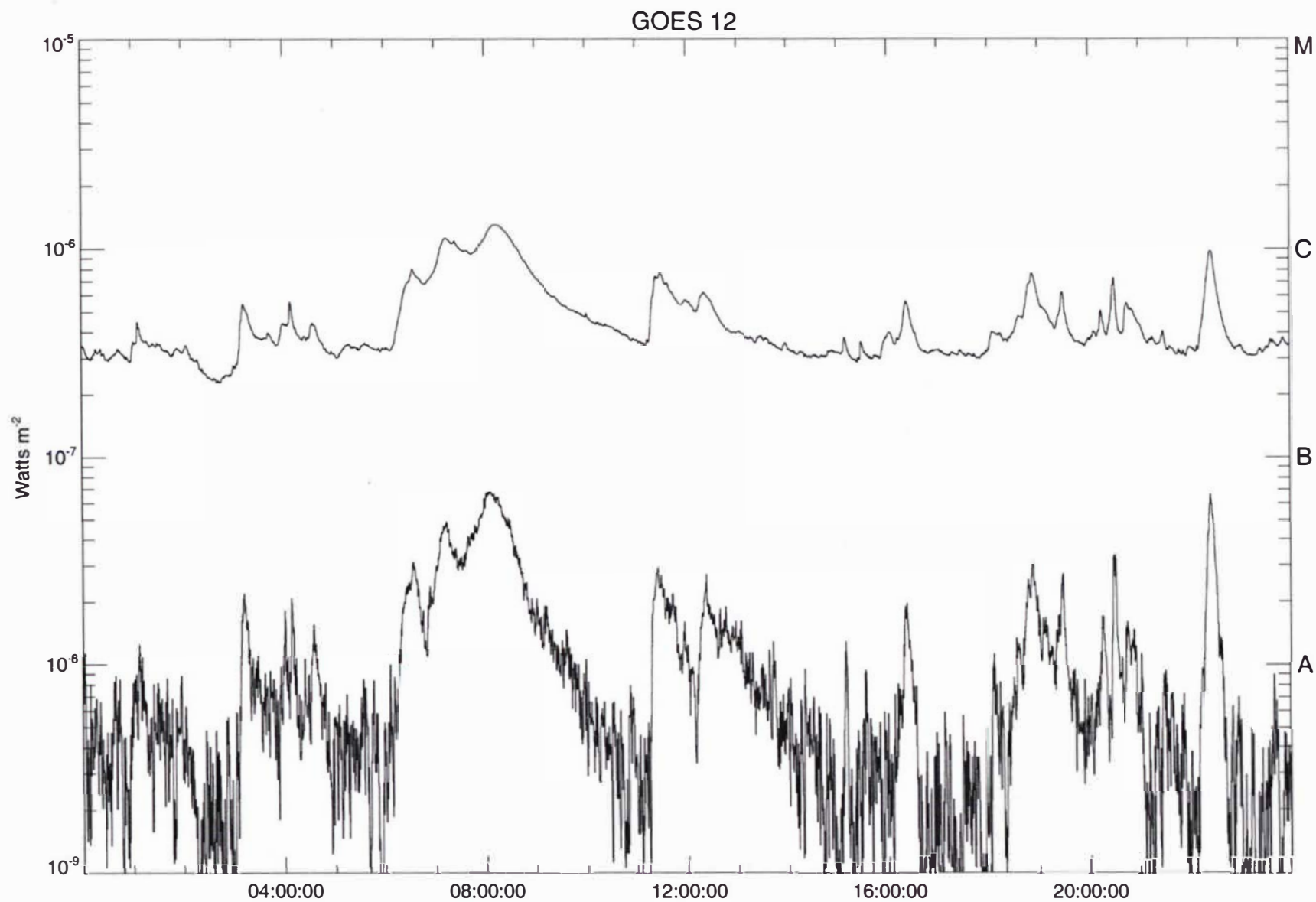
50 - 3000 keV



C

From williams@gammaburst.ssl.berkeley.edu Mon Apr 23 23:10:55 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.142
"-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Mon, 23 Apr 2012 23:02:10 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_INTEGRAL_20120417_83875
X-Ucb-Scan-Signature: 39ed6f63bcc041835fc1764bc74533609079d6e0
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 23-Apr-2012 23:10:14.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Time_Range Partially in SAA
Full time range in eclipse
Time Range Partially in non-SAA data gap
No Data Available For This Time Range
Do Not Retry



Data Start: 12/04/17, 0000:10

Plot created: 12/04/20, 0840

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: RE: MESSENGER data
From: "Goldsten, John" <John.Goldsten@jhuapl.edu>
Date: 4/23/2012 10:14 AM
To: Kevin Hurley <khurley@ssl.berkeley.edu>
CC: "Ensor, Susan L." <Susan.Ensor@jhuapl.edu>

Hi Kevin,

As far as I know, access to the EDR files via the SOC has not changed since we entered the extended mission phase, but perhaps Susan can comment. I have had no trouble getting into the SOC with the usual password.

Perhaps the problem is that the NS high voltage was disabled from approximately April 15-21 to accommodate the spacecraft engine burn to shorten the orbit about Mercury from 12 to 8 hr. This would explain why you wouldn't see any GAB records from DOY 108-111.

Regards,
John

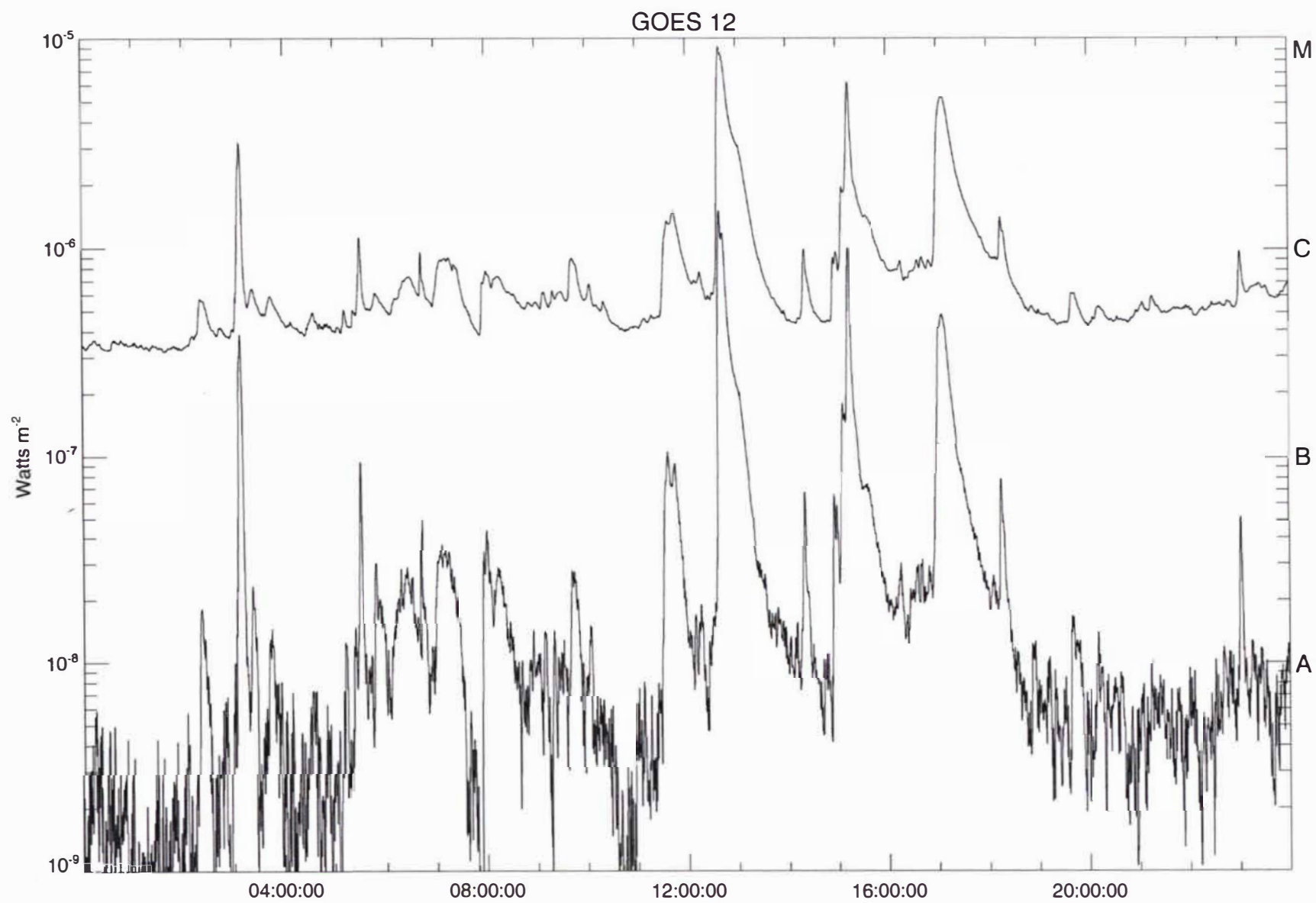
-----Original Message-----

From: Kevin Hurley [<mailto:khurley@ssl.berkeley.edu>]
Sent: Monday, April 23, 2012 12:31 PM
To: Goldsten, John; khurley@ssl.berkeley.edu
Subject: MESSENGER data

Dear John,

I have not been able to get into the MESSENGER server for several days now. Has there been a password change?

Kevin



Data Start: 12/04/18, 0000:10

Plot created: 12/04/21, 0842

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Subject: RE: MESSENGER data

From: "Goldsten, John" <John.Goldsten@jhuapl.edu>

Date: 4/23/2012 10:14 AM

To: Kevin Hurley <khurley@ssl.berkeley.edu>

CC: "Ensor, Susan L." <Susan.Ensor@jhuapl.edu>

Hi Kevin,

As far as I know, access to the EDR files via the SOC has not changed since we entered the extended mission phase, but perhaps Susan can comment. I have had no trouble getting into the SOC with the usual password.

Perhaps the problem is that the NS high voltage was disabled from approximately April 15-21 to accommodate the spacecraft engine burn to shorten the orbit about Mercury from 12 to 8 hr. This would explain why you wouldn't see any GAB records from DOY 108-111.

Regards,
John

-----Original Message-----

From: Kevin Hurley [<mailto:khurley@ssl.berkeley.edu>]

Sent: Monday, April 23, 2012 12:31 PM

To: Goldsten, John; khurley@ssl.berkeley.edu

Subject: MESSENGER data

Dear John,

I have not been able to get into the MESSENGER server for several days now. Has there been a password change?

Kevin

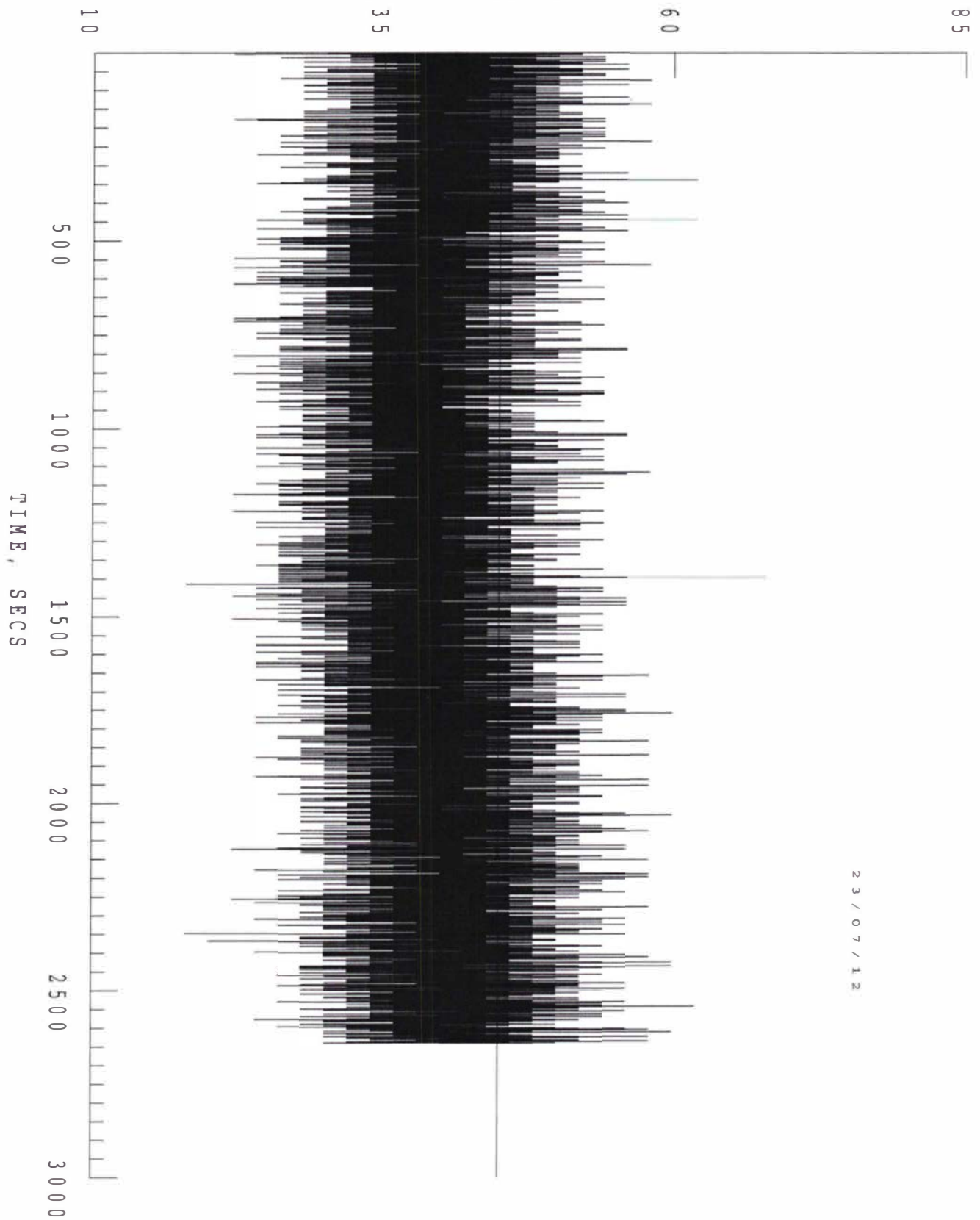
MS01

19/04/12

7320.941

50 - 3000 keV

COUNTS/0.250 S



23 / 07 / 12

From williams@gammaburst.ssl.berkeley.edu Fri Jul 20 11:09:19 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.142
-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Fri, 20 Jul 2012 10:57:10 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_SUZAKU_RI_20120419_08656
X-Ucb-Scan-Signature: cede398f1265d854f6661a9fe150281edb2060fe
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 20-Jul-2012 11:07:56.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 1.00000
Time Range Partially in SAA
Full time range in eclipse
Time Range Partially in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

INTEGRAL

19/04/12

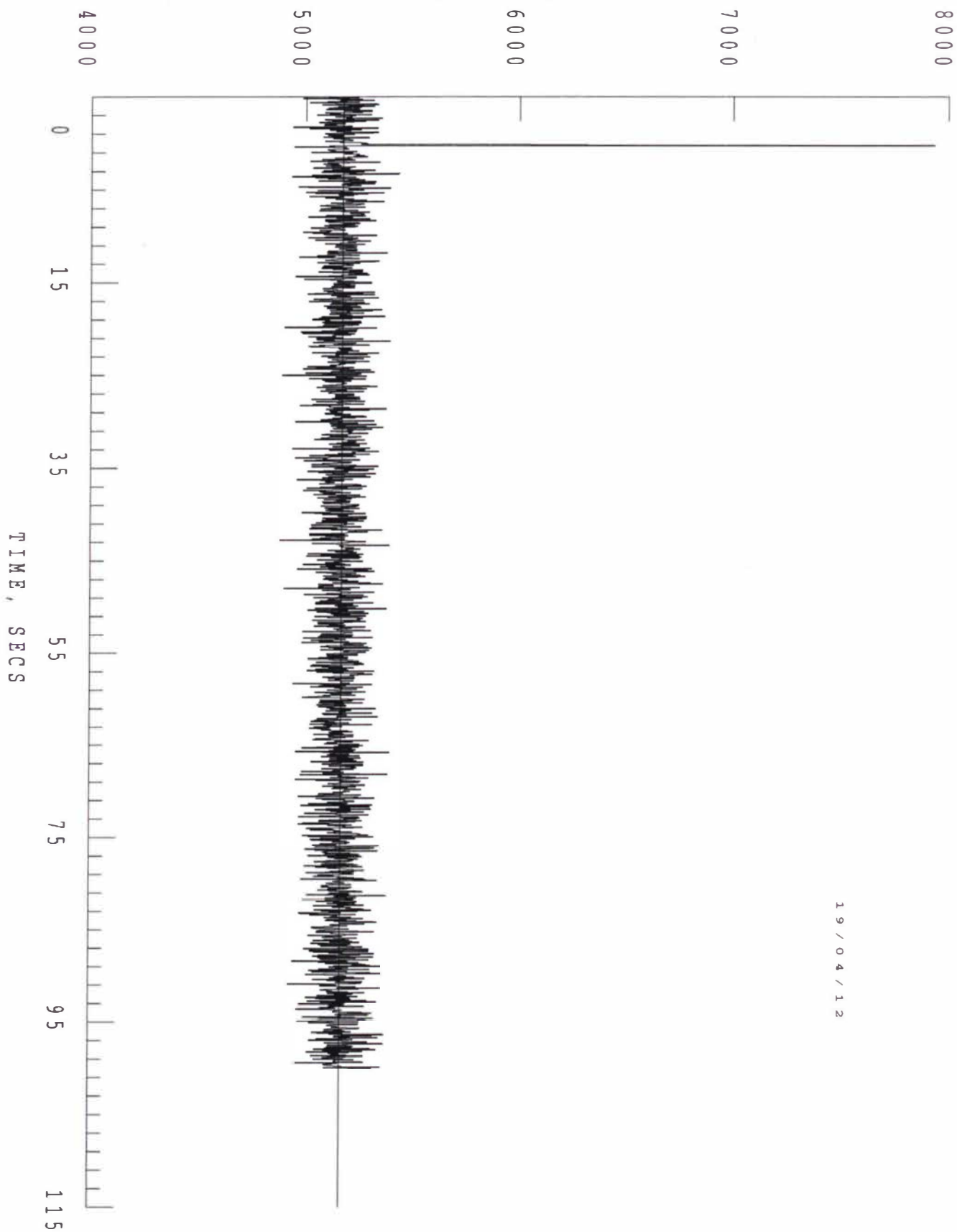
43390.567

12:03:10

A

100-10000 keV

COUNTS/0.050 S



From ipn-bounces@ssl.berkeley.edu Fri Apr 20 01:34:45 2012
 X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
 X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
 -Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
 -Barracuda-Apparent-Source-IP: 128.32.147.252
 X-Barracuda-RBL-IP: 128.32.147.252
 Date: Fri, 20 Apr 2012 12:28:32 +0400
 From: "Valentin Pal'shin" <val@mail.ioffe.ru>
 X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
 To: Volodymyr Savchenko <Volodymyr.Savchenko@unige.ch>
 Cc: ipn@ssl.berkeley.edu
 Subject: Re: [Ipn] Three SGRB + LGRB in 90 minutes
 X-Ucb-Scan-Signature: 7e83c6c37d2f82d724aad3d1c1d1655eb184ca2c
 X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
 X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Volodymyr,

Konus-Wind saw nothing around these times (including 2012-04-19T15-15-31.9331-05944-11152-0). Since there there was also no any GBM or WAM trigger and there is nothing in the BAT lc sent by David, I doubt these events are GRBs or SGR bursts, but rather they are due to particles (if they had been SGR bursts, they should have produced strong response in soft energy ranges (KW, GBM) and have been seen at least in the KW bg data)

Best wishes,

Valentin

> Dear colleagues,
 >
 > Today 2012-04-19, 12:03-13:38 the SPI-ACS detected 3 short GRBs:
 >
 > http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
 >
 > http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
 >
 > http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
 >
 > Additionally, ISGRI detected a long GRB 120419A during the same period -
 > at 12:56:25.
 > This one happened was during the period of the ACS burst sequence (no
 > more ISGRI triggers), and the ACS itself sees nothing at the time of the
 > ISGRI burst.
 > So that probably this one is just coincidence (funny, the time between
 > every pair of the bursts is quite close to 30 minutes).
 >
 > Still, the random chance of 3 short bursts in 90 minutes is pretty low:
 > ~5e-8.
 > I am wandering if that's an SGR and if it can be triangulated...
 >
 > I shall check the ACS for more bursts once the data is ready (matter of
 > hours).
 >
 > Are there any other detections?
 >
 > Cheers
 > Volodymyr

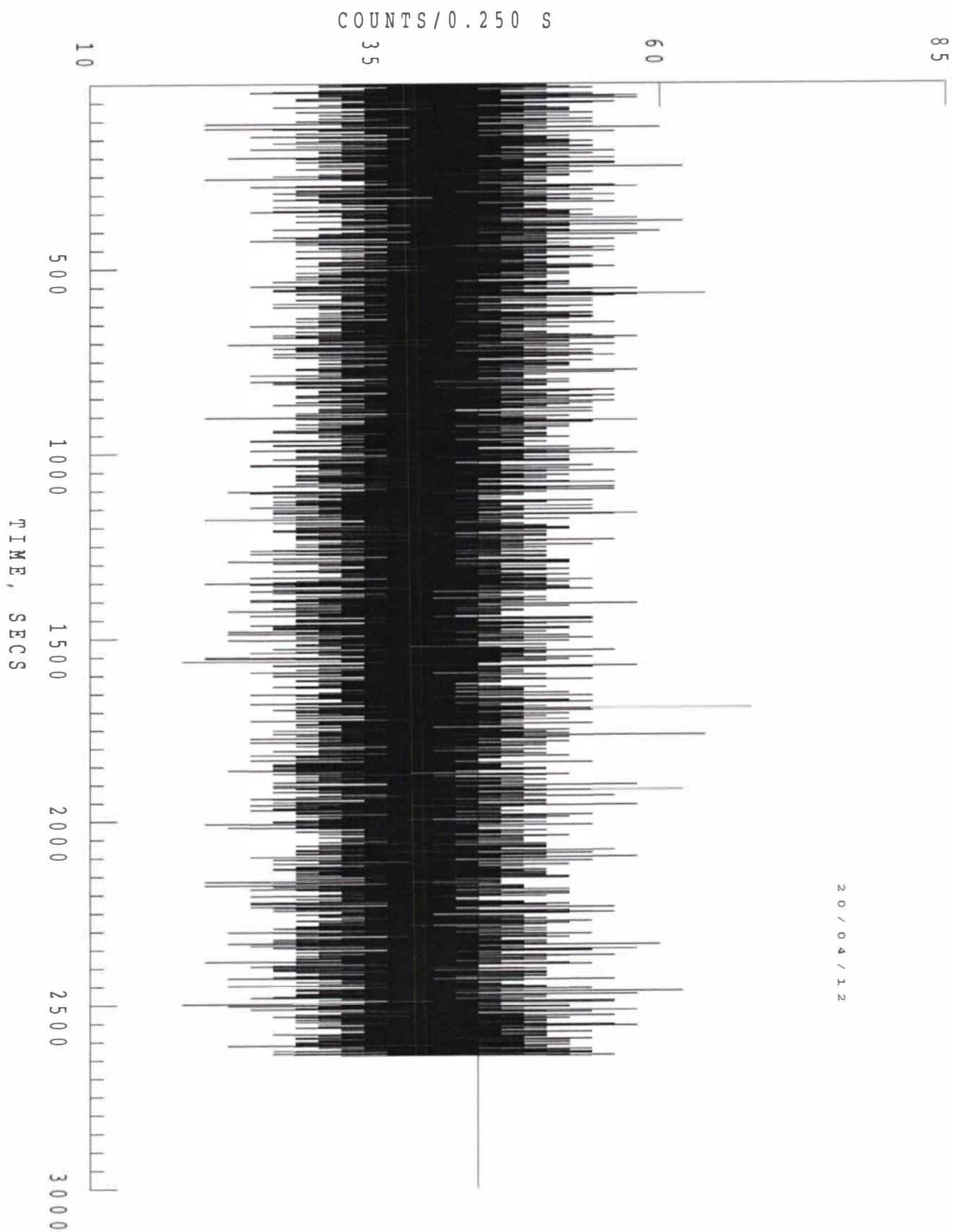
A

MS01

19/04/12

42060.317

50 - 3000 keV



From williams@gammaburst.ssl.berkeley.edu Tue Apr 24 23:10:43 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Tue, 24 Apr 2012 23:02:02 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for INTEGRAL_20120419_43390
X-Ucb-Scan-Signature: e6a473654ac0b2df0d1954c26e0cf8b8c119dde1
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 24-Apr-2012 23:10:08.00
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 120419_1203

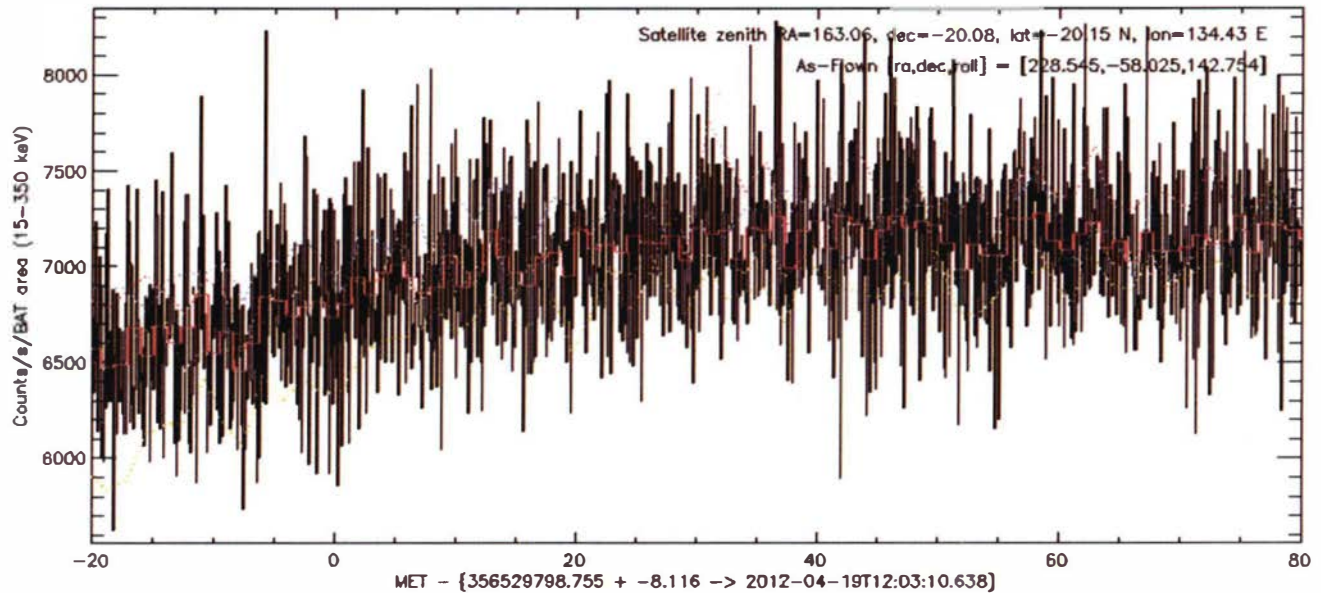
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/19/2012 9:47 AM

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/120419_1203.png



```
% /usr/local/bin/swinfo -o 356529798.754
Time(MET + UTCF -> UT): 356529798.755 + -8.116 -> 2012-04-19T12:03:10.638
Swift Zenith(RA,dec): 163.06, -20.08
Swift Location(lon,lat,alt): 134.43 E, -20.15 N, 586 km
Obs Sequence Number: 00042553001
Obs Target Name: swift_gal_survey_530
Obs Date and Times: 2012-04-19 12:00:53 - 12:11:51
Obs Pointing(ra,dec,roll): 228.545, -58.025, 142.75
```

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

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

Attachments:

/tmp/120419_1203.png	21.9 KB
/tmp/120419_1203_bat64ms_ipn	87.0 KB

B

INTEGRAL

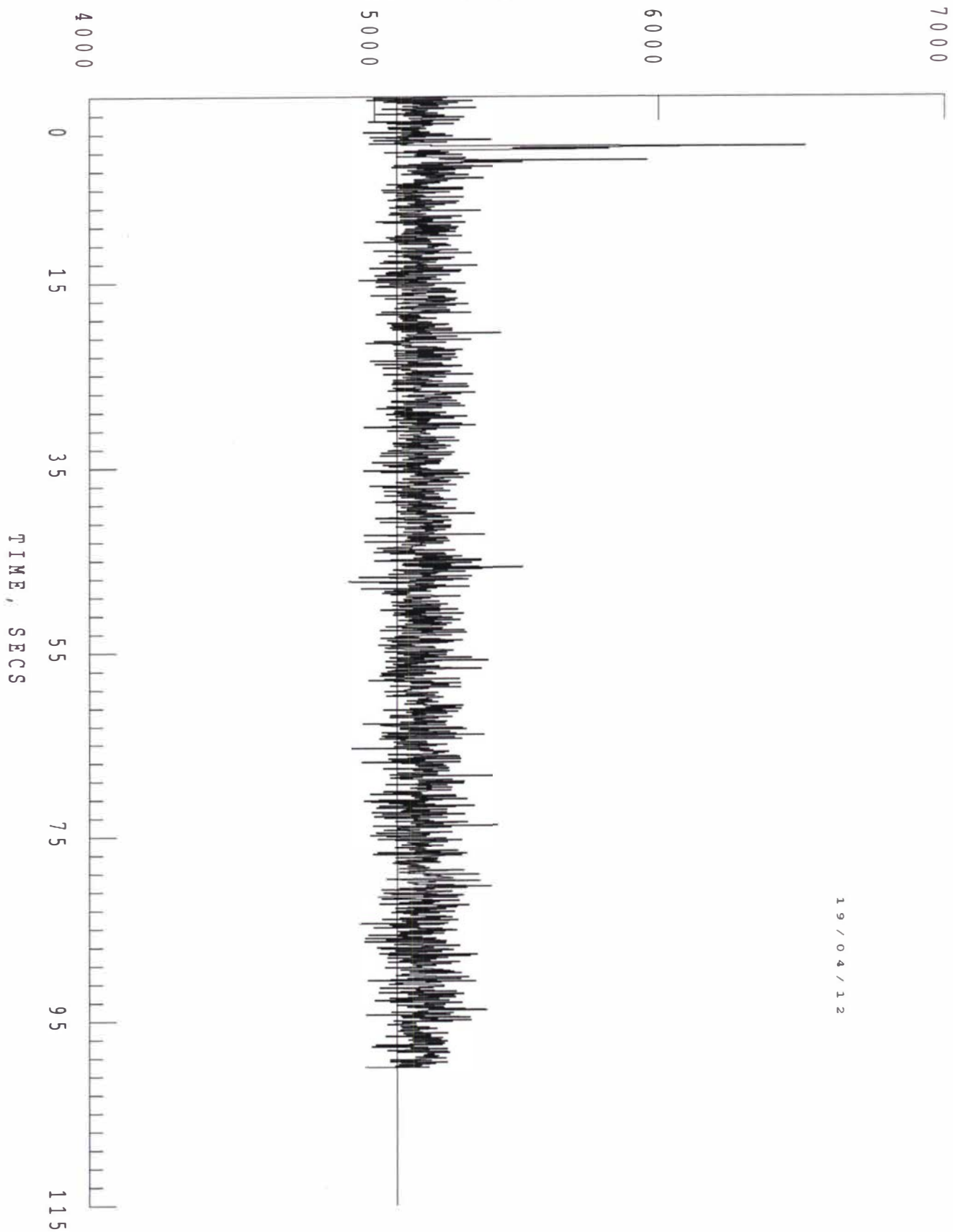
19/04/12

45374.070

12:36:14

100-10000 keV

COUNTS/0.050 S



B

From ipn-bounces@ssl.berkeley.edu Fri Apr 20 01:34:45 2012
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.147.252
X-Barracuda-RBL-IP: 128.32.147.252
Date: Fri, 20 Apr 2012 12:28:32 +0400
From: "Valentin Pal'shin" <val@mail.ioffe.ru>
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
To: Volodymyr Savchenko <Volodymyr.Savchenko@unige.ch>
Cc: ipn@ssl.berkeley.edu
Subject: Re: [Ipn] Three SGRB + LGRB in 90 minutes
X-Ucb-Scan-Signature: 7e83c6c37d2f82d724aad3d1c1d1655eb184ca2c
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Volodymyr,

Konus-Wind saw nothing around these times (including 2012-04-19T15-15-31.9331-05944-11152-0). Since there there was also no any GBM or WAM trigger and there is nothing in the BAT lc sent by David, I doubt these events are GRBs or SGR bursts, but rather they are due to particles (if they had been SGR bursts, they should have produced strong response in soft energy ranges (KW, GBM) and have been seen at least in the KW bg data)

Best wishes,

Valentin

> Dear colleagues,
>
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> http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
>
> http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
>
> http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
>
> Additionally, ISGRI detected a long GRB 120419A during the same period -
> at 12:56:25.
> This one happened was during the period of the ACS burst sequence (no
> more ISGRI triggers), and the ACS itself sees nothing at the time of the
> ISGRI burst.
> So that probably this one is just coincidence (funny, the time between
> every pair of the bursts is quite close to 30 minutes).
>
> Still, the random chance of 3 short bursts in 90 minutes is pretty low:
> $\sim 5e-8$.
> I am wandering if that's an SGR and if it can be triangulated...
>
> I shall check the ACS for more bursts once the data is ready (matter of
> hours).
>
> Are there any other detections?
>
> Cheers
> Volodymyr

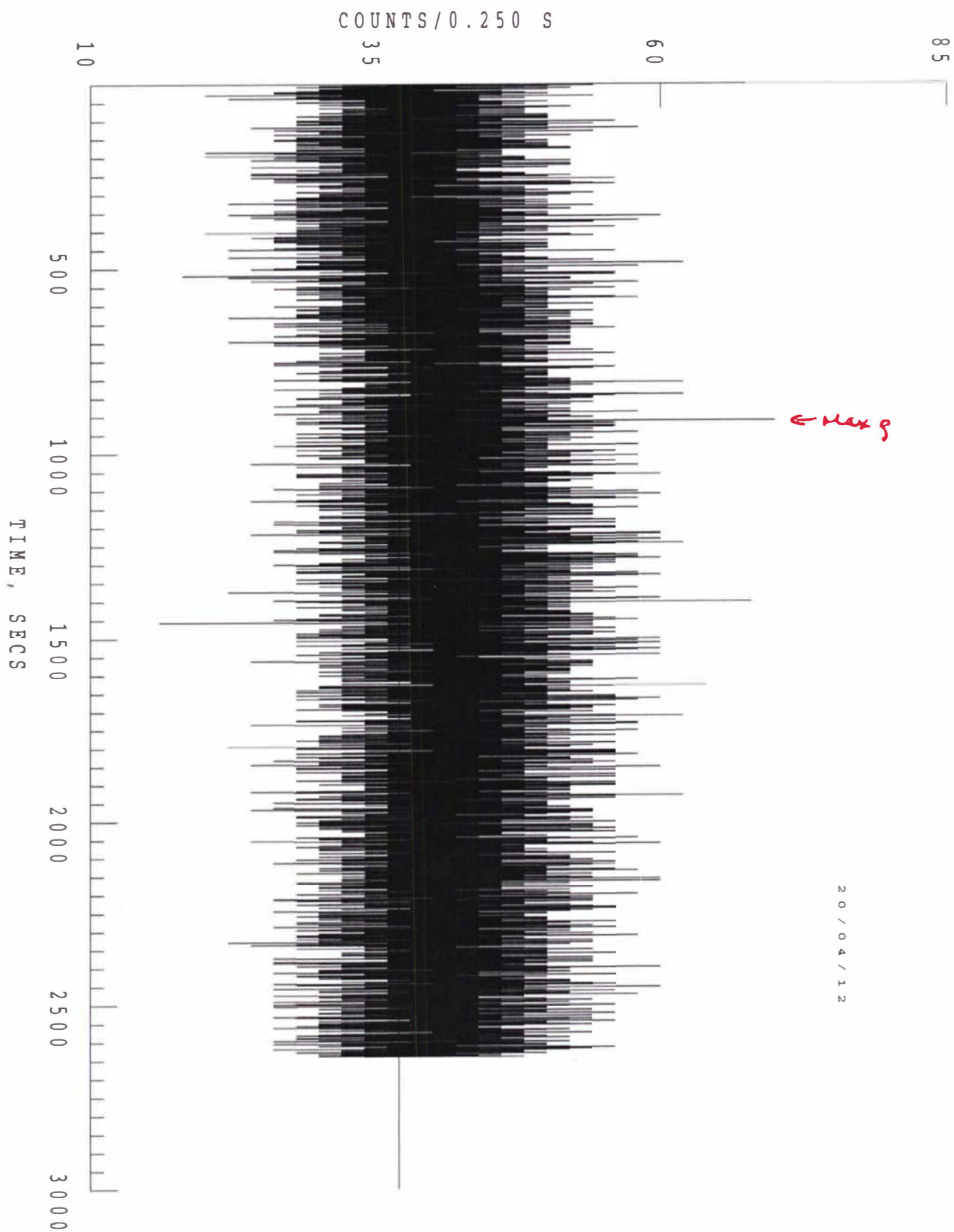
B

MS01

19/04/12

44040.277

50 - 3000 keV



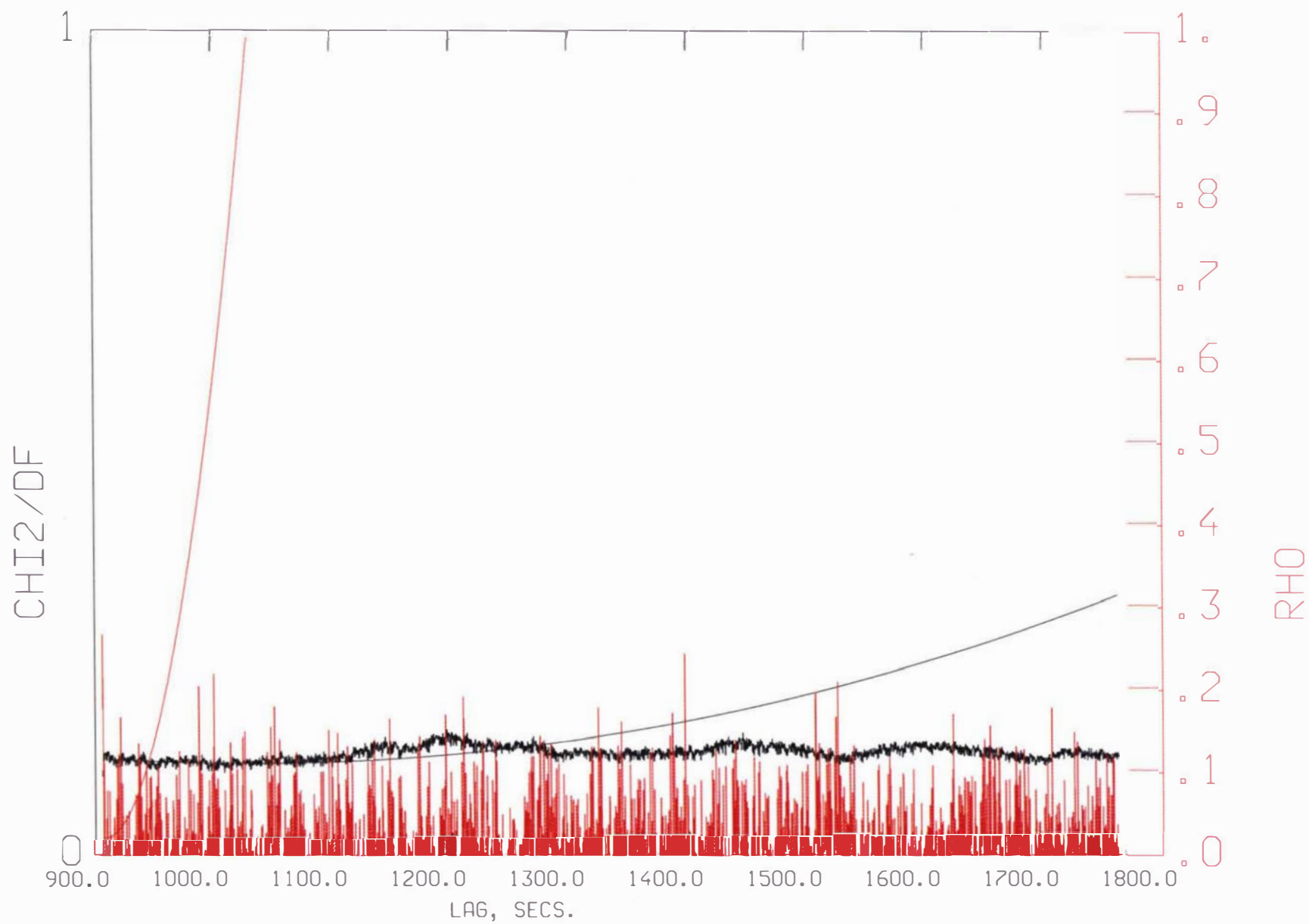
04-13

INTEGRAL -MS01 HEND CORRELATION

19/04/12

45374.070

17/ 7/12

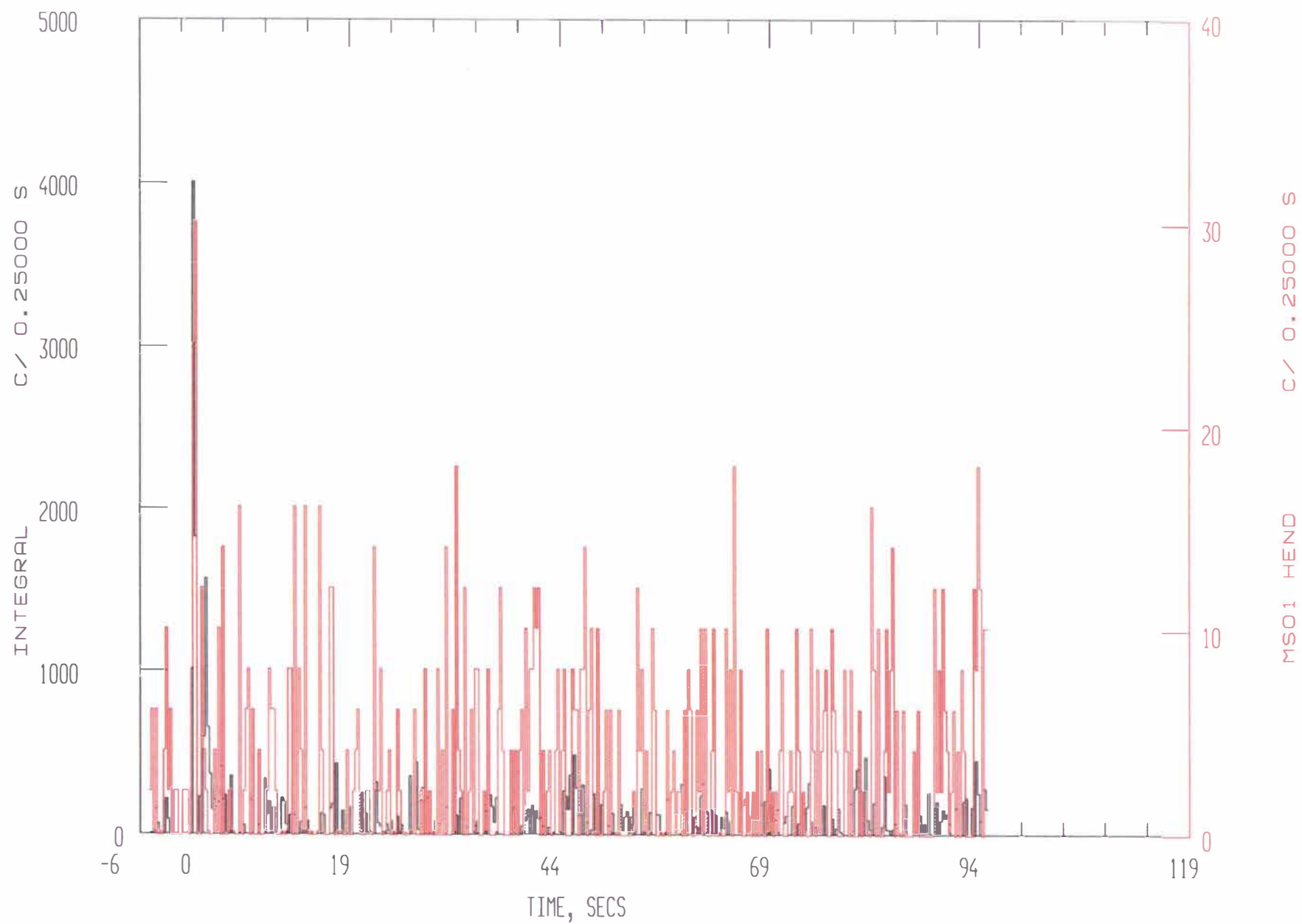


EB

INTEGRAL -MS01 HEND CORRELATION

19/04/12 45374.070

17/ 7/12

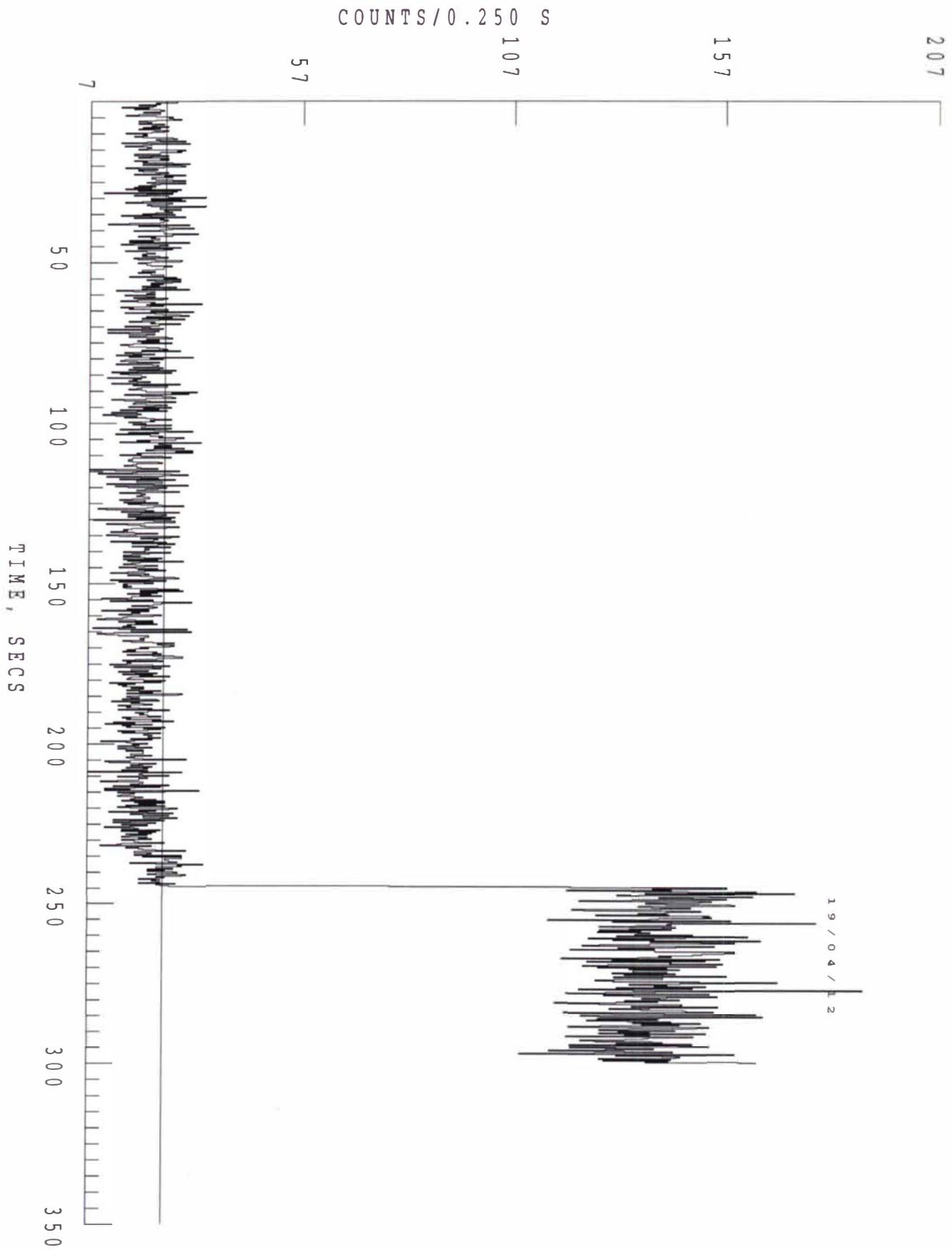


HESSI

19/04/12 45224.000 (INTEGRAL_20120419_45374)

B

25 - 150 keV



Subject: [lpn] BAT lightcurve for trigger at 120419_1236

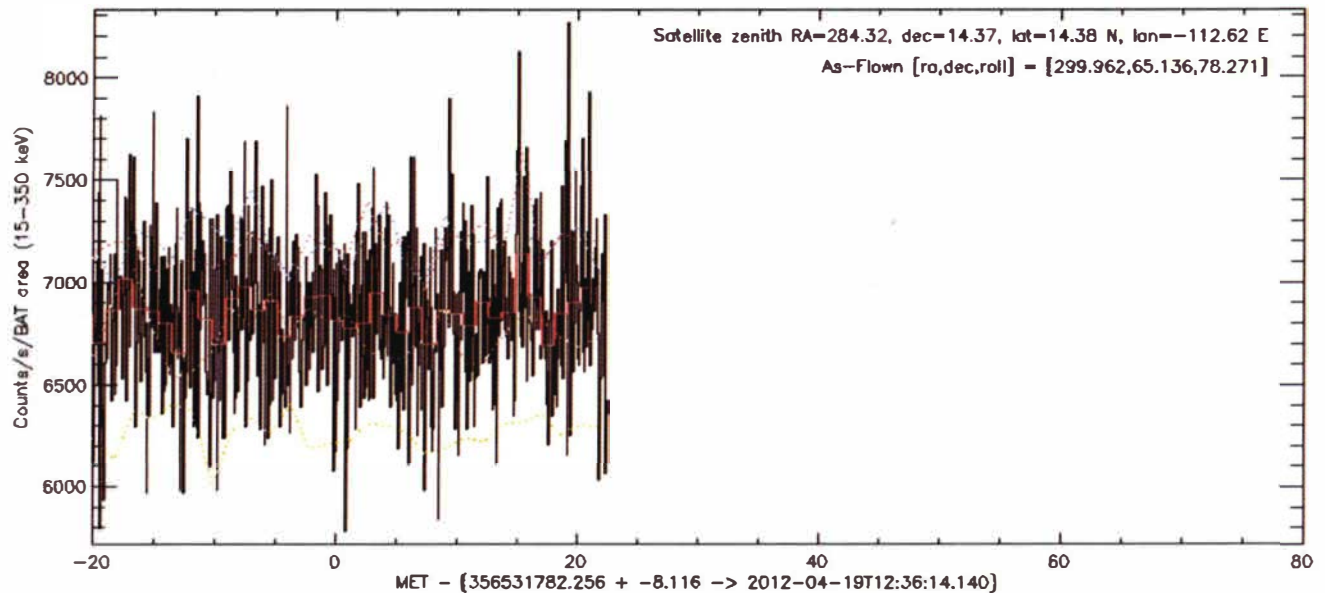
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/19/2012 8:46 AM

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/120419_1236.png



45374

```
% /usr/local/bin/swinfo -o 356531782.256
Time(MET + UTC -> UT):      356531782.256 + -8.116 -> 2012-04-19T12:36:14.140
Swift Zenith(RA,dec):       284.32, 14.37
Swift Location(lon,lat,alt): -112.62 E, 14.38 N, 570 km
Obs Sequence Number:        00035025075
Obs Target Name:             1ES1959+650
Obs Date and Times:          2012-04-19 12:17:15 - 12:36:34
Obs Pointing(ra,dec,roll):   299.962, 65.136, 78.27
```

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

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

Attachments:

/tmp/120419_1236.png	12.6 KB
/tmp/120419_1236_bat64ms_ipn	24.0 KB

From gcncirc@capella2.gsfc.nasa.gov Thu Apr 19 07:10:28 2012
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.144
X-Barracuda-Apparent-Source-IP: 128.183.96.236
X-Barracuda-RBL-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 120419A: A long GRB detected by INTEGRAL
To: khurley@ssl.berkeley.edu
Date: Thu, 19 Apr 2012 10:10:25 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Ucb-Scan-Signature: 02150ae3bf1021408031dd1b3c9b8cc82e9be601
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 13241
SUBJECT: GRB 120419A: A long GRB detected by INTEGRAL
DATE: 12/04/19 14:10:21 GMT
FROM: Sandro Mereghetti at IASF/CNR <sandro@iasf-milano.inaf.it>

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

a long gamma ray burst lasting about 20 s has been detected by IBAS in the IBIS/ISGRI data at 12:56:25 UT of April 19

46585

Its refined coordinates (J2000) are:

RA: 187.4024 [degrees]

EC: -63.017 [degrees]

with an uncertainty of 2.5 arcmin (90% c.l.).

A preliminary analysis gives a 20-200 keV fluence of about 2×10^{-7} erg/cm² and a peak flux of about 0.4 ph/cm² s (1 s integration time)

A plot of the light curve will be posted at

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

MS01

19/04/12

45240.255

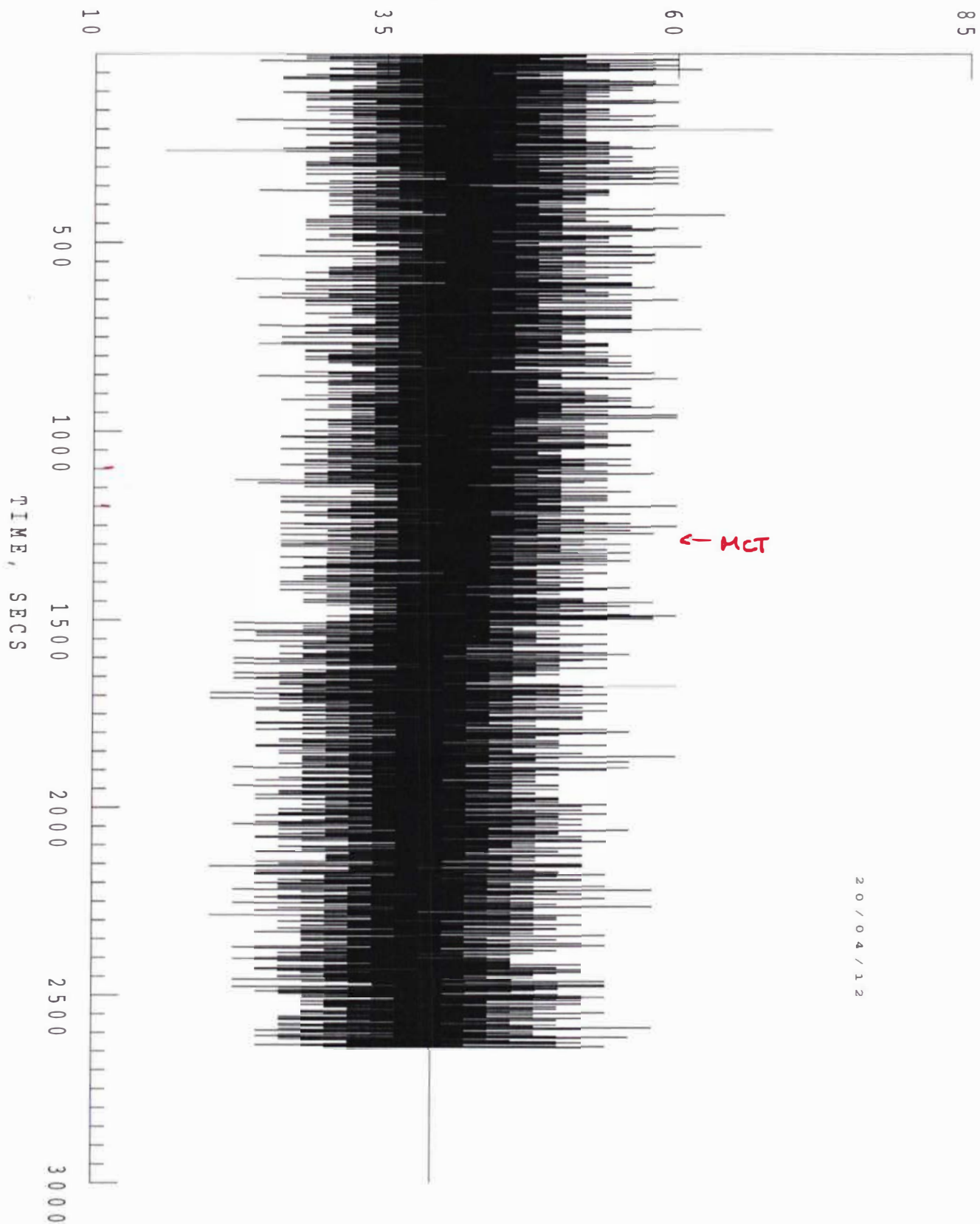
C

50 - 3000 keV

$\angle \text{GRB}/O/M = 124^\circ$

Unocculted

COUNTS/0.250 S



From williams@gammaburst.ssl.berkeley.edu Fri Apr 20 10:05:44 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
"-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Fri, 20 Apr 2012 09:57:02 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_INTEGRAL_20120419_46585
X-Ucb-Scan-Signature: e98056b337a4359b938b366ff9b4acfl82291c
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

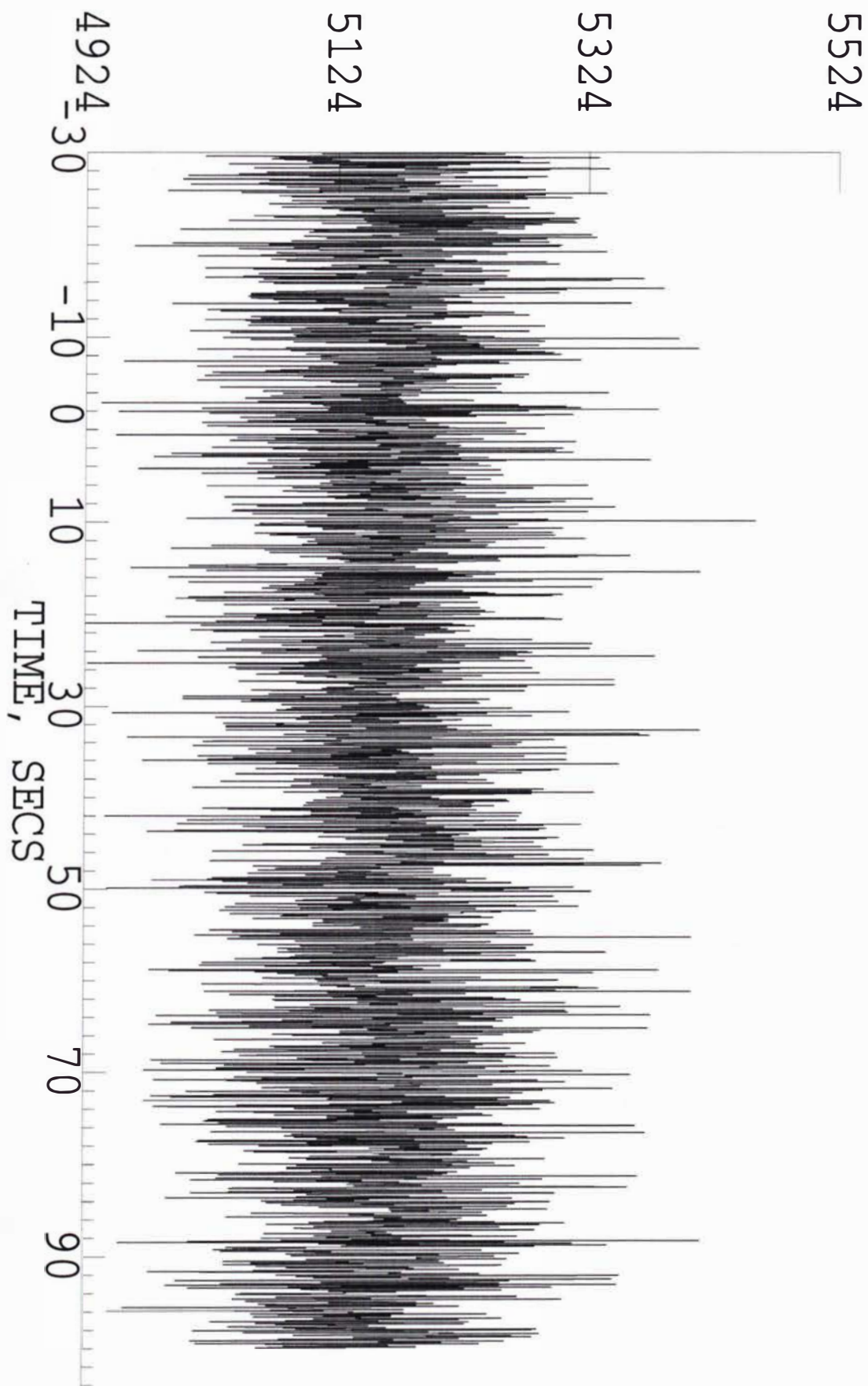
HESSI 25 to 150 keV Counts
Created 20-Apr-2012 10:05:01.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 1.00000
Full time range in SAA
No Eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

INTEGRAL 19/04/12 46585.022 12:56:25.0

C

100-10000 keV

COUNTS/ .050 S





IBIS Light Curve

Short Description

Results

[INTEGRAL GRB Table](#)

[IBAS Alerts Page](#)

Updated in REAL TIME!

News

User Info :

[IBAS Alerts Distribution Systems](#)

[How to receive IBAS Alerts](#)

[Types of Alerts](#)

[Localization Accuracy](#)

[Sensitivity and GRB](#)

[Significance](#)

[Optical Monitoring Camera](#)

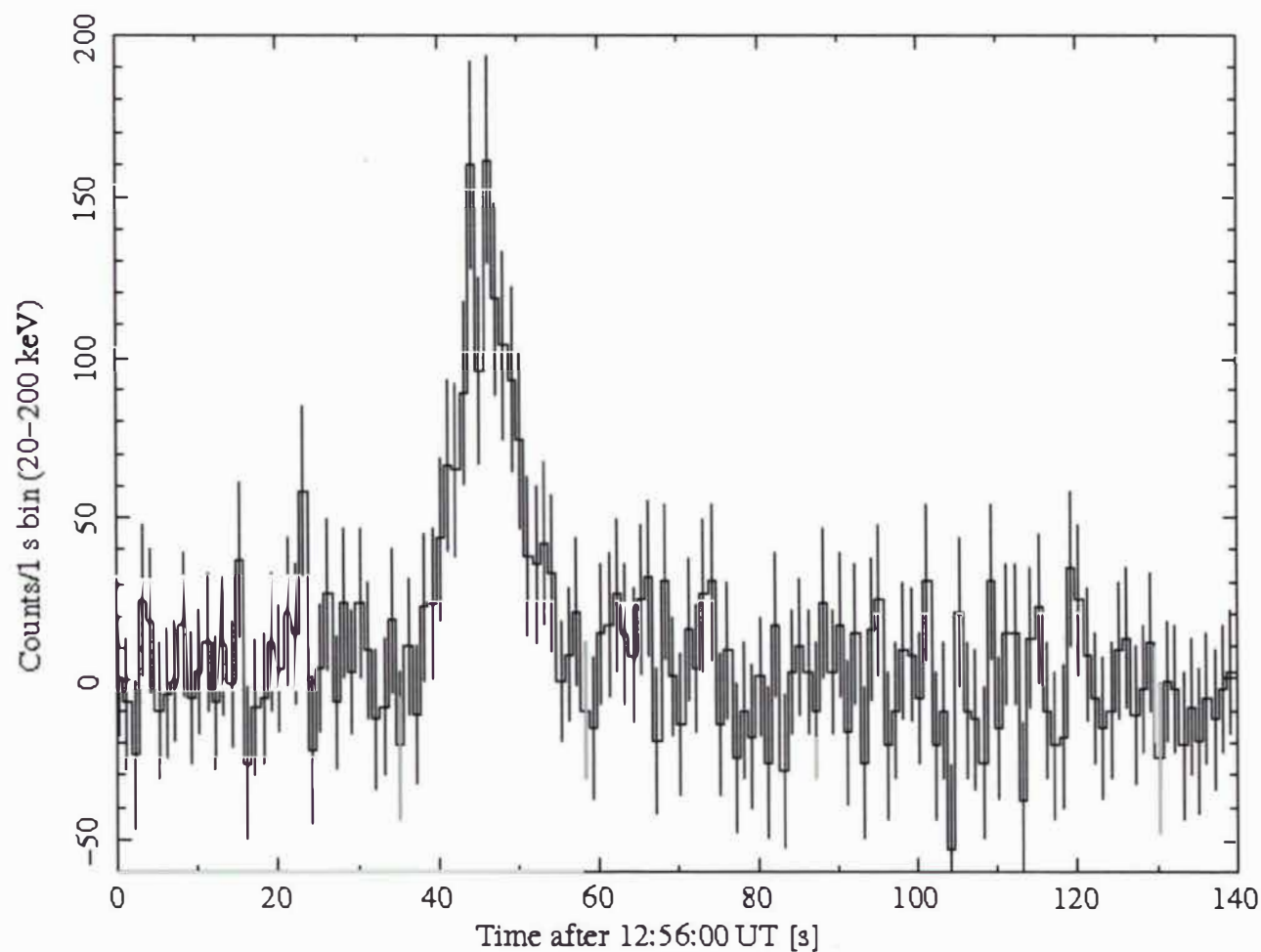
External Links :

[ISDC](#)

[INTEGRAL](#)

[ESA](#)

GRB 120419A - INTEGRAL IBIS Light Curve





Subject: [lpn] BAT lightcurve for trigger at 120419_1256

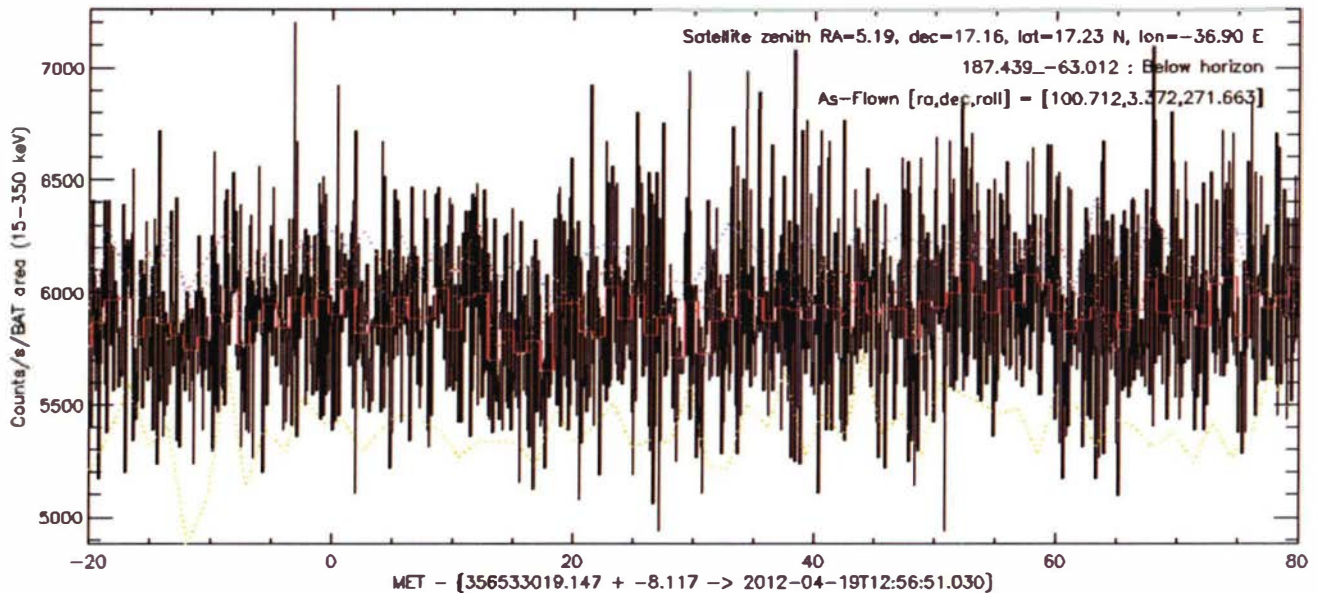
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/19/2012 10:18 AM

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/120419_1256.png



```
% /usr/local/bin/swinfo -o 356533019.147 -s 187.439_-63.012
Time(MET + UTC -> UT):      356533019.147 + -8.117 -> 2012-04-19T12:56:51.030
Swift Zenith(RA,dec):       5.19, 17.16
Swift Location(lon,lat,alt): -36.90 E, 17.23 N, 579 km
Obs Sequence Number:        00047165002
Obs Target Name:            2FGL J0642.9+0319
Obs Date and Times:         2012-04-19 12:55:53 - 13:10:48
Obs Pointing(ra,dec,roll):  100.712, 3.372, 271.66
187.439_-63.012_imageloc (boresight_dist, angle): (92, 151)
187.439_-63.012_exposure (cm^2 cos adjusted): 0
187.439_-63.012_altitude: -21 (down)
```

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

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

Attachments:

/tmp/120419_1256_bat64ms_ipn	87.1 KB
/tmp/120419_1256.png	23.3 KB

Subject: [Ipn] BAT lightcurve for trigger at 120419_1257

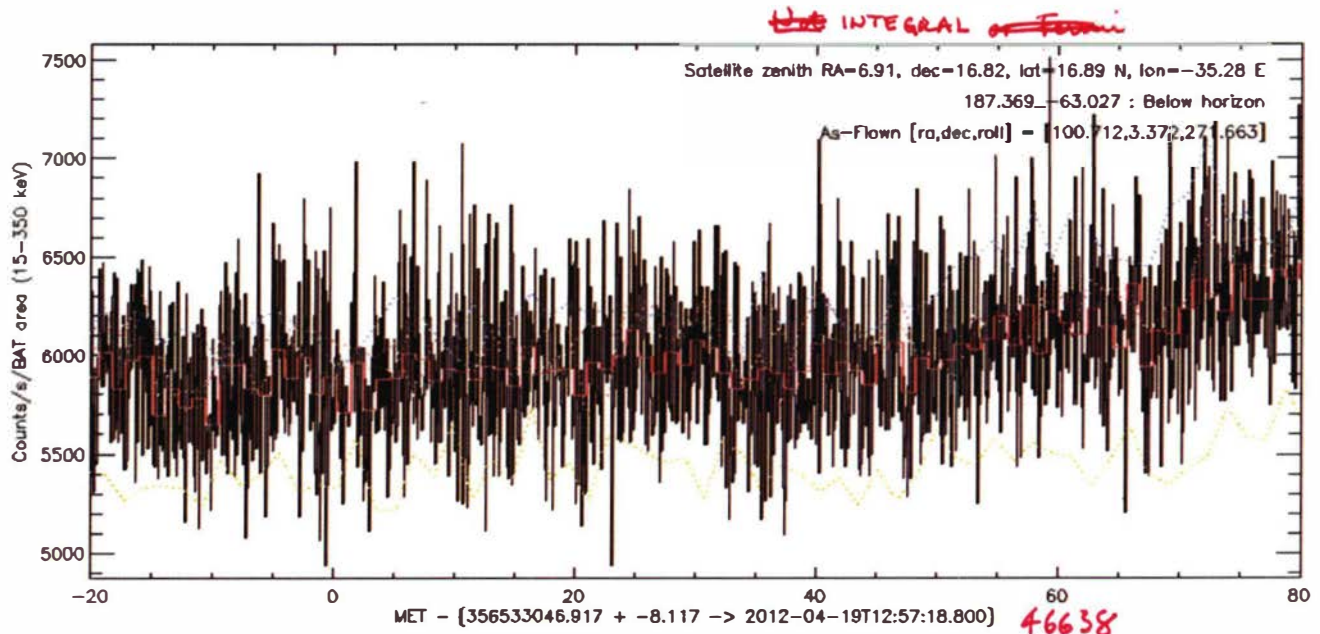
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/19/2012 10:19 AM

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/120419_1257.png



```
% /usr/local/bin/swinfo -o 356533046.917 -s 187.369_-63.027
Time(MET + UTCF -> UT):      356533046.917 + -8.117 -> 2012-04-19T12:57:18.800
Swift Zenith(RA,dec):        6.91, 16.82
Swift Location(lon,lat,alt):  -35.28 E, 16.89 N, 580 km
Obs Sequence Number:         00047165002
Obs Target Name:              2FGL J0642.9+0319
Obs Date and Times:           2012-04-19 12:55:53 - 13:10:48
Obs Pointing(ra,dec,roll):    100.712, 3.372, 271.66
187.369_-63.027_imageloc (boresight_dist, angle): (91, 151)
187.369_-63.027_exposure (cm2 cos adjusted): 0
187.369_-63.027_altitude: -20 (down)
```

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

Attachments:

/tmp/120419_1257_bat64ms_ipn

87.1 KB

/tmp/120419_1257.png

21.9 KB

INTEGRAL

19/04/12

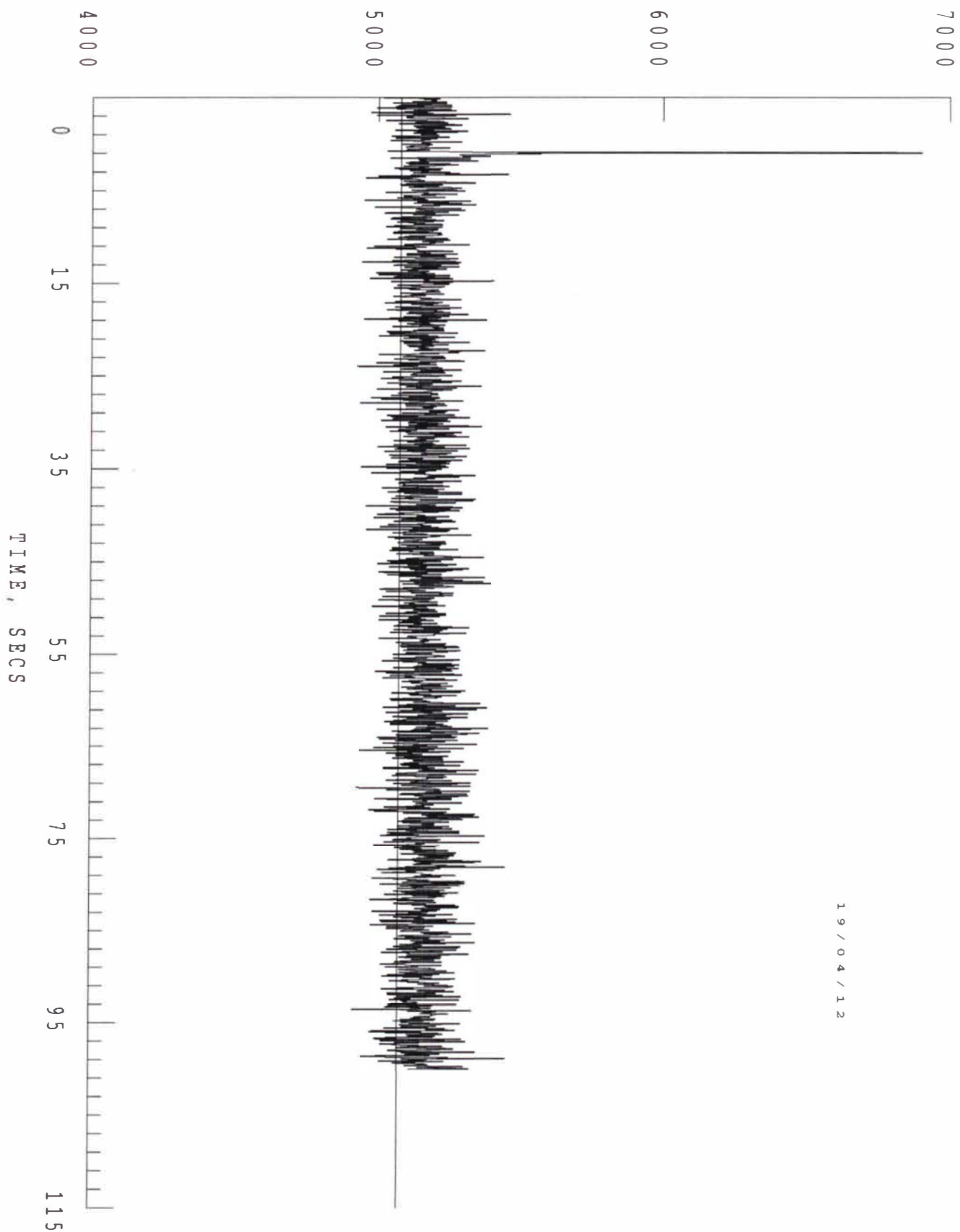
49081.875

13:38:01



100-10000 keV

COUNTS/0.050 S



From ipn-bounces@ssl.berkeley.edu Fri Apr 20 01:34:45 2012
 X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
 X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
 X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
 X-Barracuda-Apparent-Source-IP: 128.32.147.252
 X-Barracuda-RBL-IP: 128.32.147.252
 Date: Fri, 20 Apr 2012 12:28:32 +0400
 From: "Valentin Pal'shin" <val@mail.ioffe.ru>
 X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
 To: Volodymyr Savchenko <Volodymyr.Savchenko@unige.ch>
 Cc: ipn@ssl.berkeley.edu
 Subject: Re: [Ipn] Three SGRB + LGRB in 90 minutes
 X-Ucb-Scan-Signature: 7e83c6c37d2f82d724aad3d1c1d1655eb184ca2c
 X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
 X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Volodymyr,

Konus-Wind saw nothing around these times (including 2012-04-19T15-15-31.9331-05944-11152-0). Since there there was also no any GBM or WAM trigger and there is nothing in the BAT lc sent by David, I doubt these events are GRBs or SGR bursts, but rather they are due to particles (if they had been SGR bursts, they should have produced strong response in soft energy ranges (KW, GBM) and have been seen at least in the KW bg data)

Best wishes,

Valentin

> Dear colleagues,
 >
 > Today 2012-04-19, 12:03-13:38 the SPI-ACS detected 3 short GRBs:
 >
 > http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
 >
 > http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
 >
 > http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
 >
 > Additionally, ISGRI detected a long GRB 120419A during the same period -
 > at 12:56:25.
 > This one happened was during the period of the ACS burst sequence (no
 > more ISGRI triggers), and the ACS itself sees nothing at the time of the
 > ISGRI burst.
 > So that probably this one is just coincidence (funny, the time between
 > every pair of the bursts is quite close to 30 minutes).
 >
 > Still, the random chance of 3 short bursts in 90 minutes is pretty low:
 > ~5e-8.
 > I am wandering if that's an SGR and if it can be triangulated...
 >
 > I shall check the ACS for more bursts once the data is ready (matter of
 > hours).
 >
 > Are there any other detections?
 >
 > Cheers
 > Volodymyr

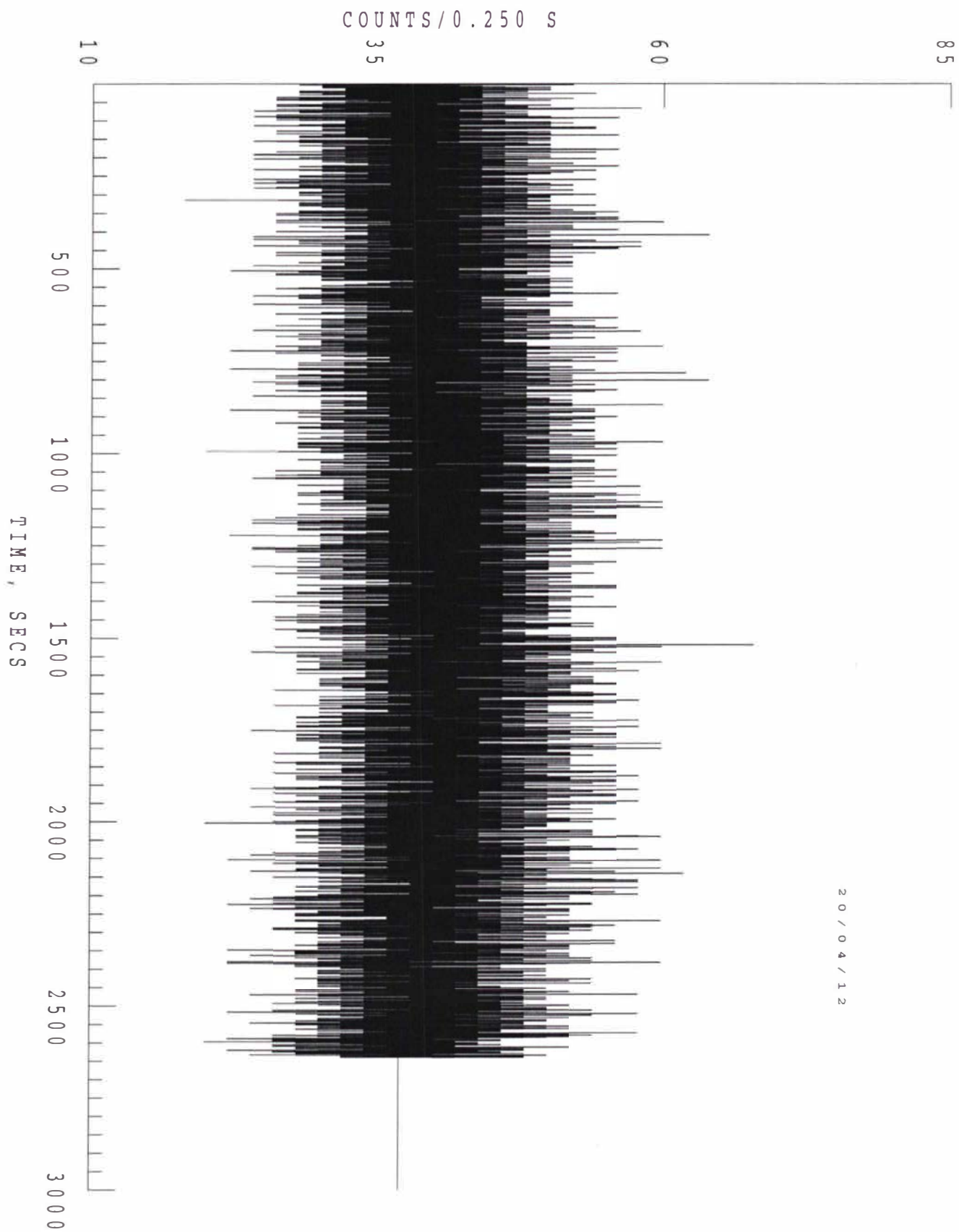
MS01

19/04/12

47760.210

D

50 - 3000 keV



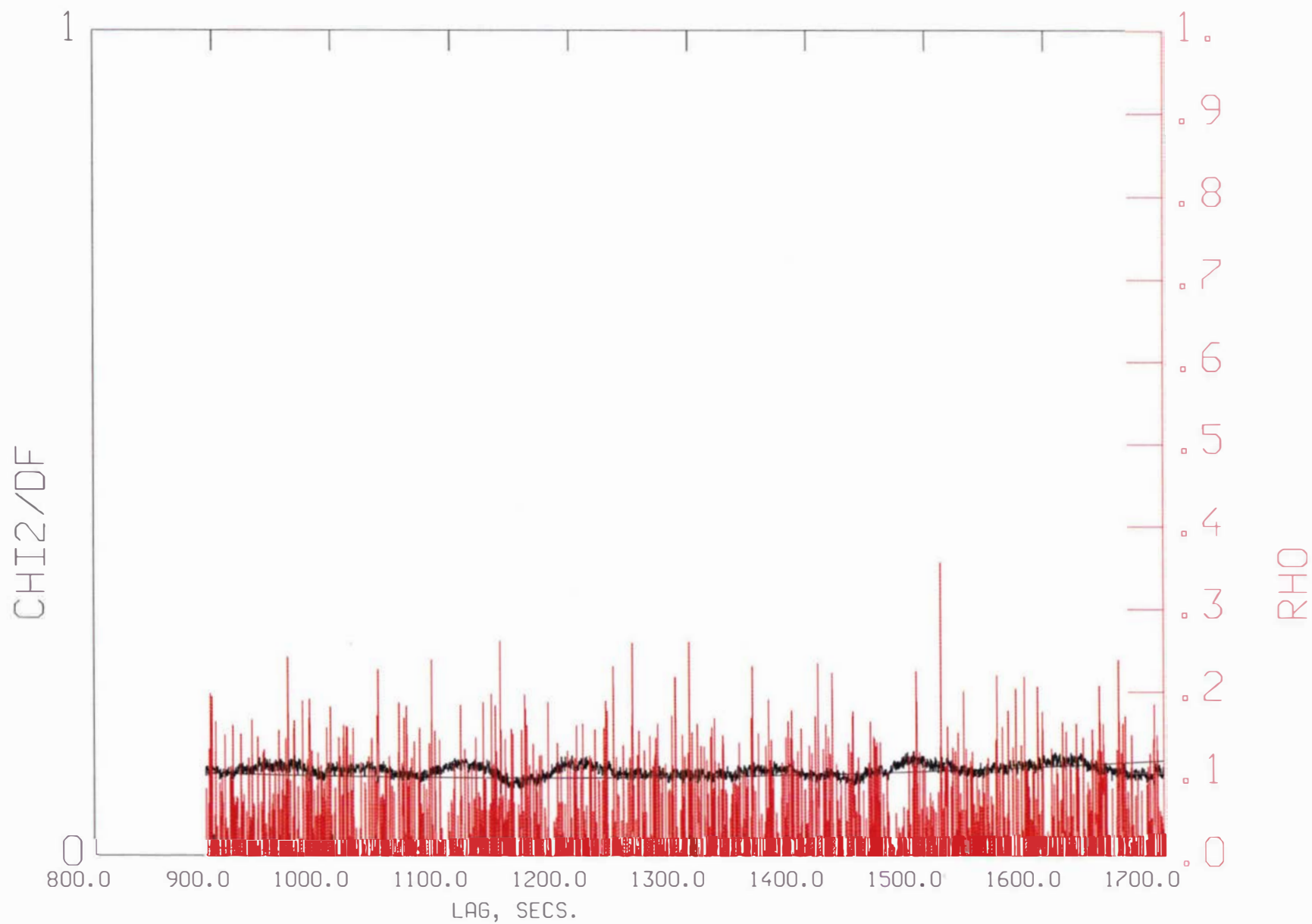
A

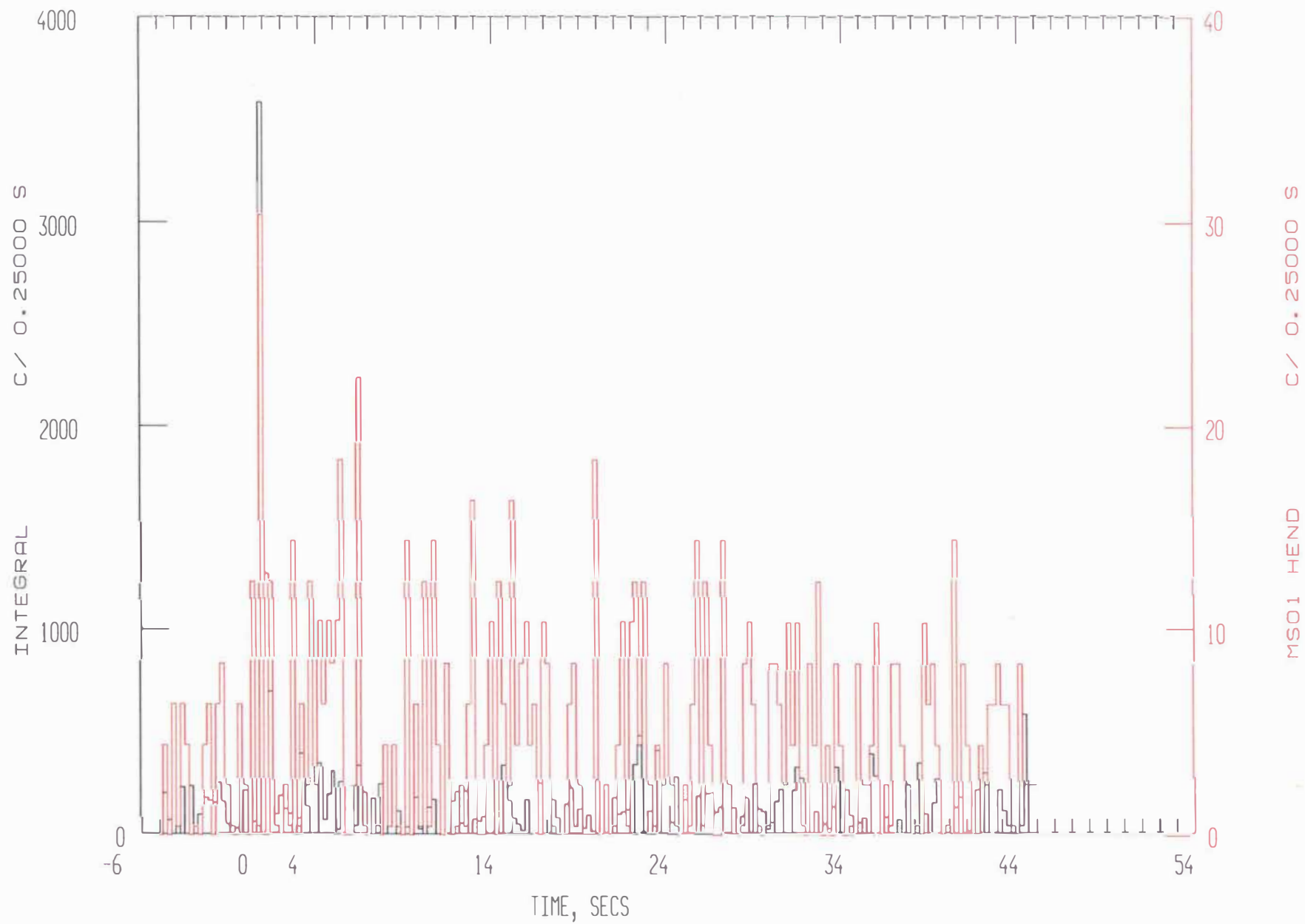
INTEGRAL -MS01 HEND CORRELATION

19/04/12

49081.875

17/ 7/12





D

From williams@gammaburst.ssl.berkeley.edu Tue Apr 24 23:12:31 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.142
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Tue, 24 Apr 2012 23:03:52 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for INTEGRAL 20120419_49081
X-Ucb-Scan-Signature: b233e040d1981b801472e442ec3969819c7e7a80
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 24-Apr-2012 23:11:58.00
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 120419_1338

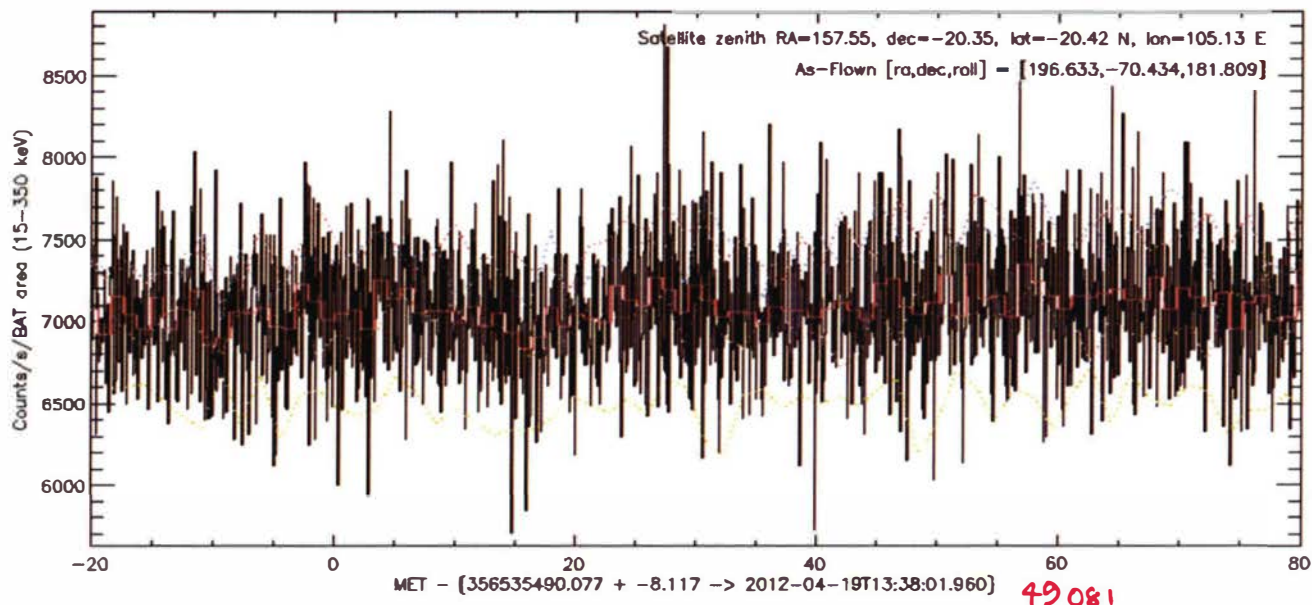
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/19/2012 10:19 AM

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/120419_1338.png



```
% /usr/local/bin/swinfo -o 356535490.077
Time(MET + UTC -> UT): 356535490.077 + -8.117 -> 2012-04-19T13:38:01.960
Swift Zenith(RA,dec): 157.55, -20.35
Swift Location(lon,lat,alt): 105.13 E, -20.42 N, 587 km
Obs Sequence Number: 00032339009
Obs Target Name: MAXI J1305-704
Obs Date and Times: 2012-04-19 13:16:50 - 14:00:45
Obs Pointing(ra,dec,roll): 196.633, -70.434, 181.81
```

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

Attachments:

/tmp/120419_1338_bat64ms_ipn	87.1 KB
/tmp/120419_1338.png	22.1 KB

INTEGRAL

19/04/12

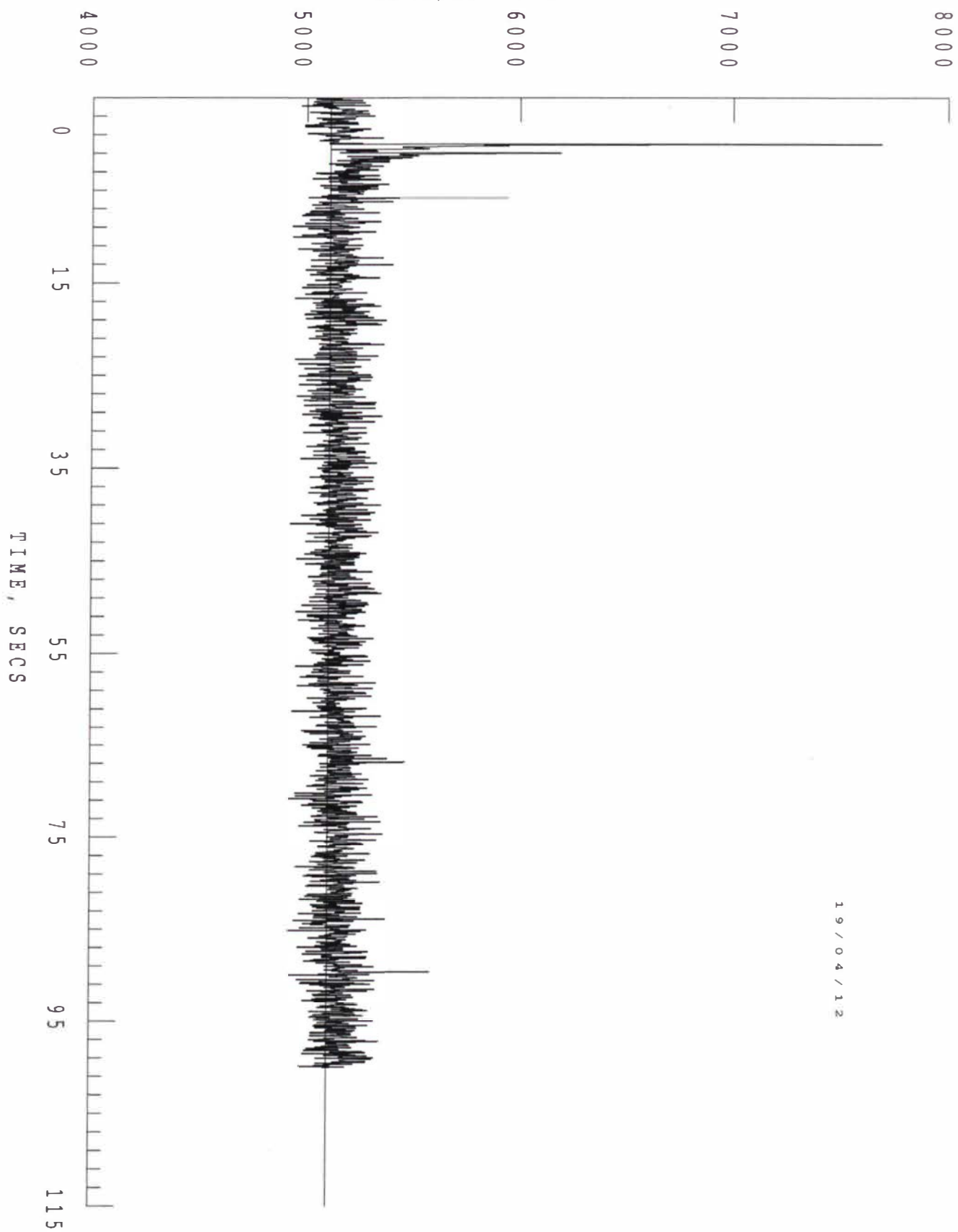
54931.933

15:15:31

DE

100-10000 keV

COUNTS/0.050 S



From ipn-bounces@ssl.berkeley.edu Fri Apr 20 01:34:45 2012
 X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
 X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
 X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
 X-Barracuda-Apparent-Source-IP: 128.32.147.252
 X-Barracuda-RBL-IP: 128.32.147.252
 Date: Fri, 20 Apr 2012 12:28:32 +0400
 From: "Valentin Pal'shin" <val@mail.ioffe.ru>
 X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
 To: Volodymyr Savchenko <Volodymyr.Savchenko@unige.ch>
 Cc: ipn@ssl.berkeley.edu
 Subject: Re: [Ipn] Three SGRB + LGRB in 90 minutes
 X-Ucb-Scan-Signature: 7e83c6c37d2f82d724aad3d1c1d1655eb184ca2c
 X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
 X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Volodymyr,

Konus-Wind saw nothing around these times (including 2012-04-19T15-15-31.9331-05944-11152-0). Since there there was also no any GBM or WAM trigger and there is nothing in the BAT lc sent by David, I doubt these events are GRBs or SGR bursts, but rather they are due to particles (if they had been SGR bursts, they should have produced strong response in soft energy ranges (KW, GBM) and have been seen at least in the KW bg data)

Best wishes,

Valentin

> Dear colleagues,
 >
 > Today 2012-04-19, 12:03-13:38 the SPI-ACS detected 3 short GRBs:
 >
 > http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
 >
 > http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
 >
 > http://www.isdc.unige.ch/integral/ibas/cgi-bin/ibas_acs_web.cgi/?trigger=2012-
 >
 > Additionally, ISGRI detected a long GRB 120419A during the same period -
 > at 12:56:25.
 > This one happened was during the period of the ACS burst sequence (no
 > more ISGRI triggers), and the ACS itself sees nothing at the time of the
 > ISGRI burst.
 > So that probably this one is just coincidence (funny, the time between
 > every pair of the bursts is quite close to 30 minutes).
 >
 > Still, the random chance of 3 short bursts in 90 minutes is pretty low:
 > ~5e-8.
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 >
 > I shall check the ACS for more bursts once the data is ready (matter of
 > hours).
 >
 > Are there any other detections?
 >
 > Cheers
 > Volodymyr

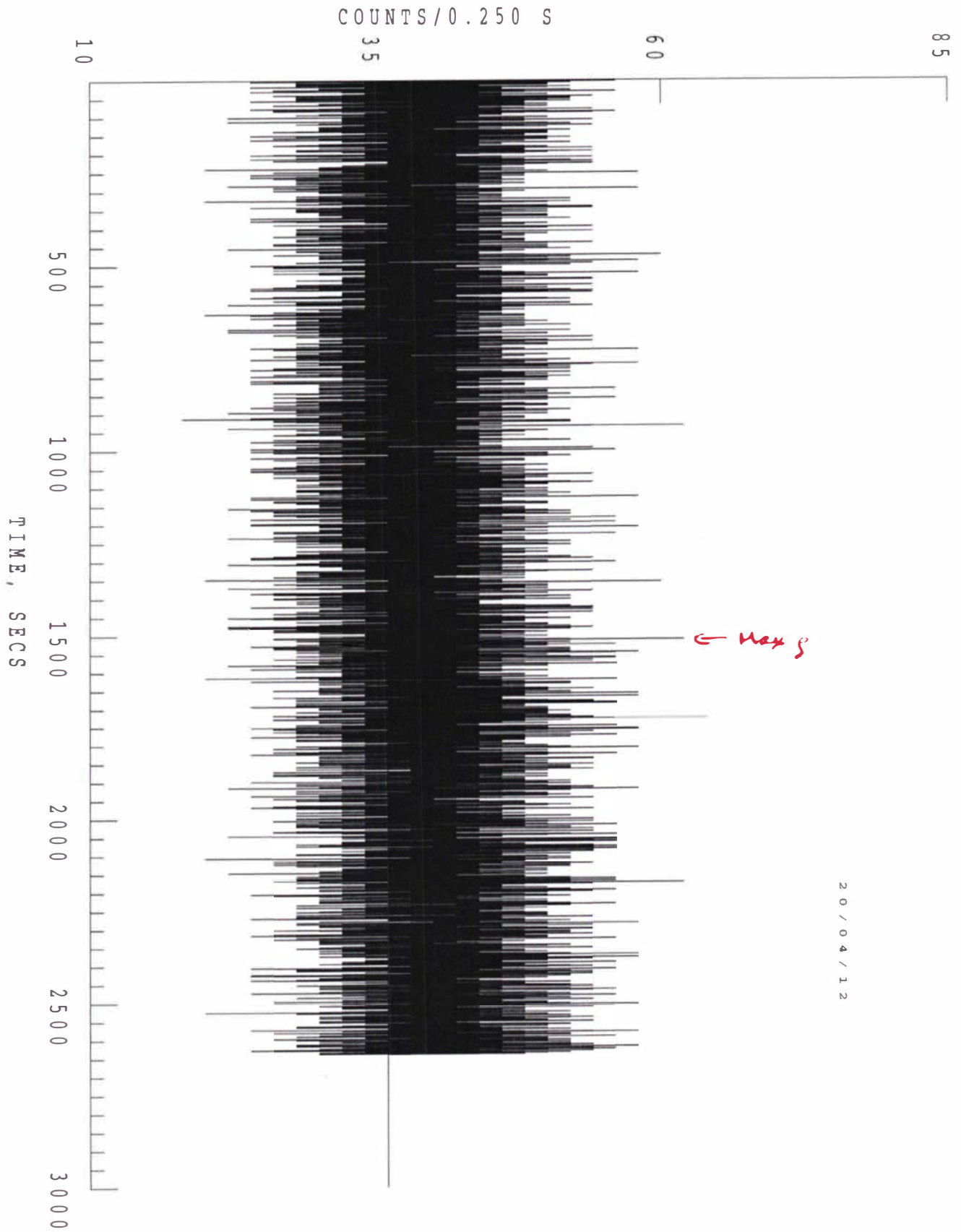
MS01

19/04/12

53580.106

E

50 - 3000 keV



E

From williams@gammaburst.ssl.berkeley.edu Tue Apr 24 23:14:25 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.145
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Tue, 24 Apr 2012 23:05:41 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_INTEGRAL_20120419_54931
X-Ucb-Scan-Signature: ee70127add49d54a7133df61f4523be2920f0a49
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 24-Apr-2012 23:13:48.00
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 120419_1515

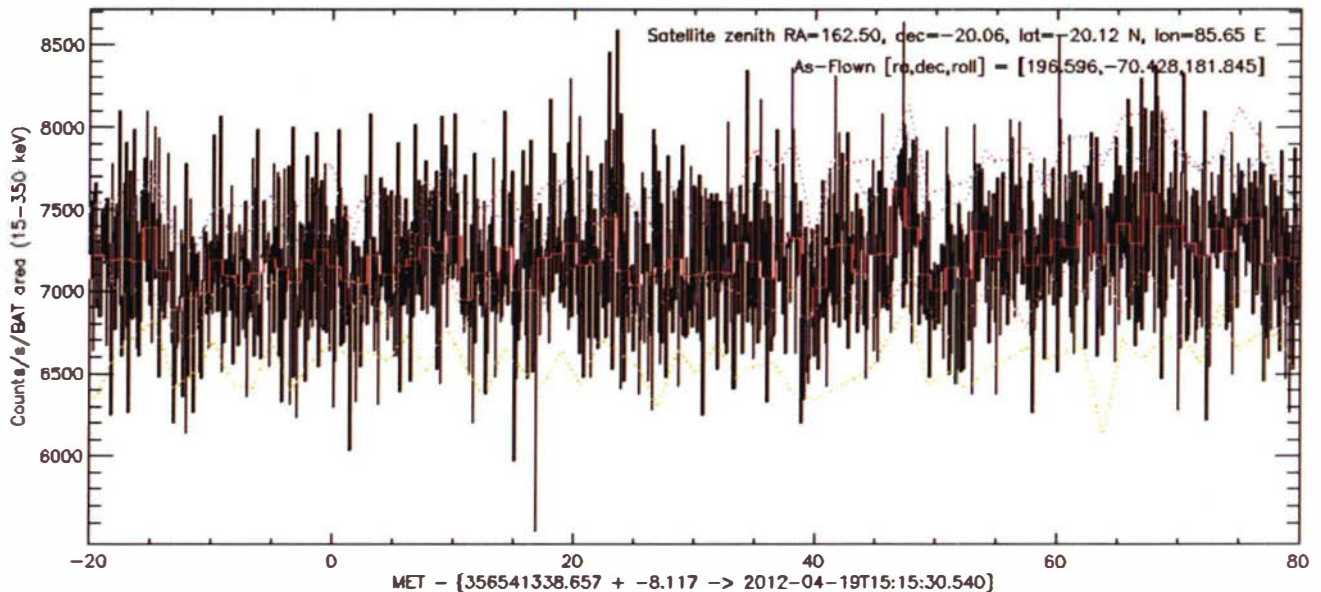
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/19/2012 11:49 AM

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/120419_1515.png



```
% /usr/local/bin/swinfo -o 356541338.657
Time(MET + UTC -> UT): 356541338.657 + -8.117 -> 2012-04-19T15:15:30.540
Swift Zenith(RA,dec): 162.50, -20.06
Swift Location(lon,lat,alt): 85.65 E, -20.12 N, 586 km
Obs Sequence Number: 00032339009
Obs Target Name: MAXI J1305-704
Obs Date and Times: 2012-04-19 14:53:23 - 15:36:56
Obs Pointing(ra,dec,roll): 196.596, -70.428, 181.84
```

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

Attachments:

/tmp/120419_1515_bat64ms_ipn	87.0 KB
/tmp/120419_1515.png	22.2 KB

INTEGRAL

19/04/12

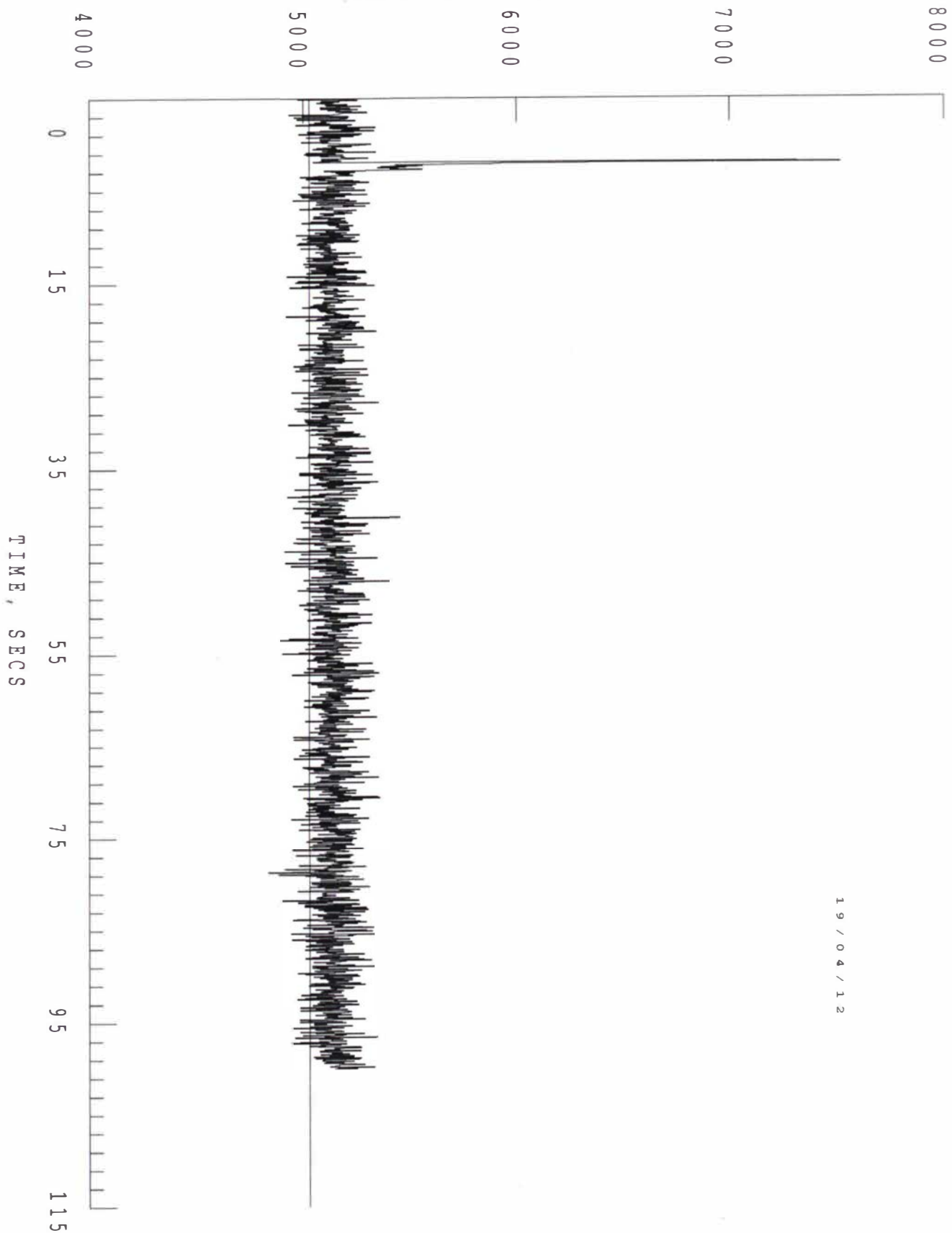
61648.691

17:07:28

EF

100-10000 keV

COUNTS/0.050 S



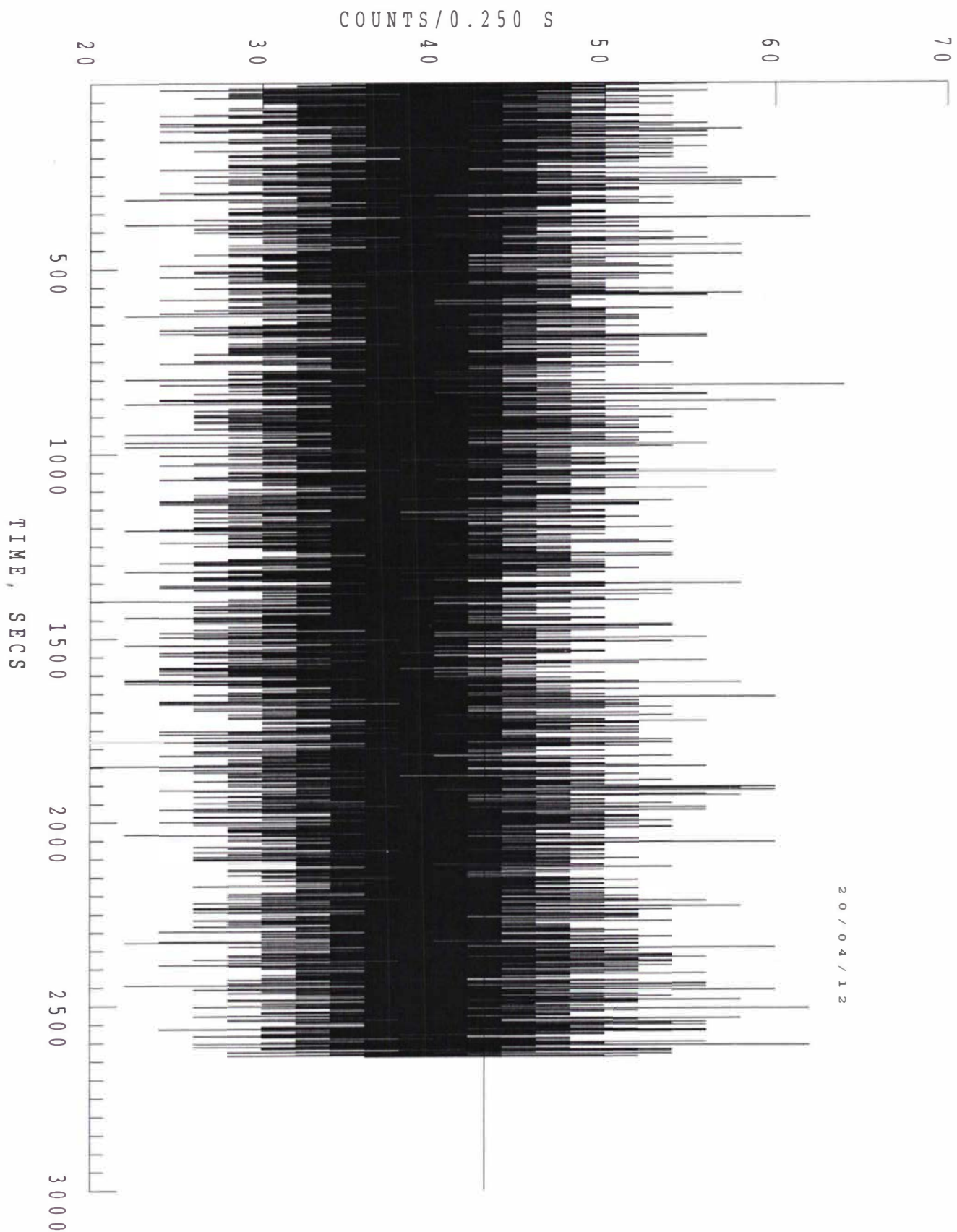
MS01

19/04/12

60299.977

50 - 3000 keV

20/04/12

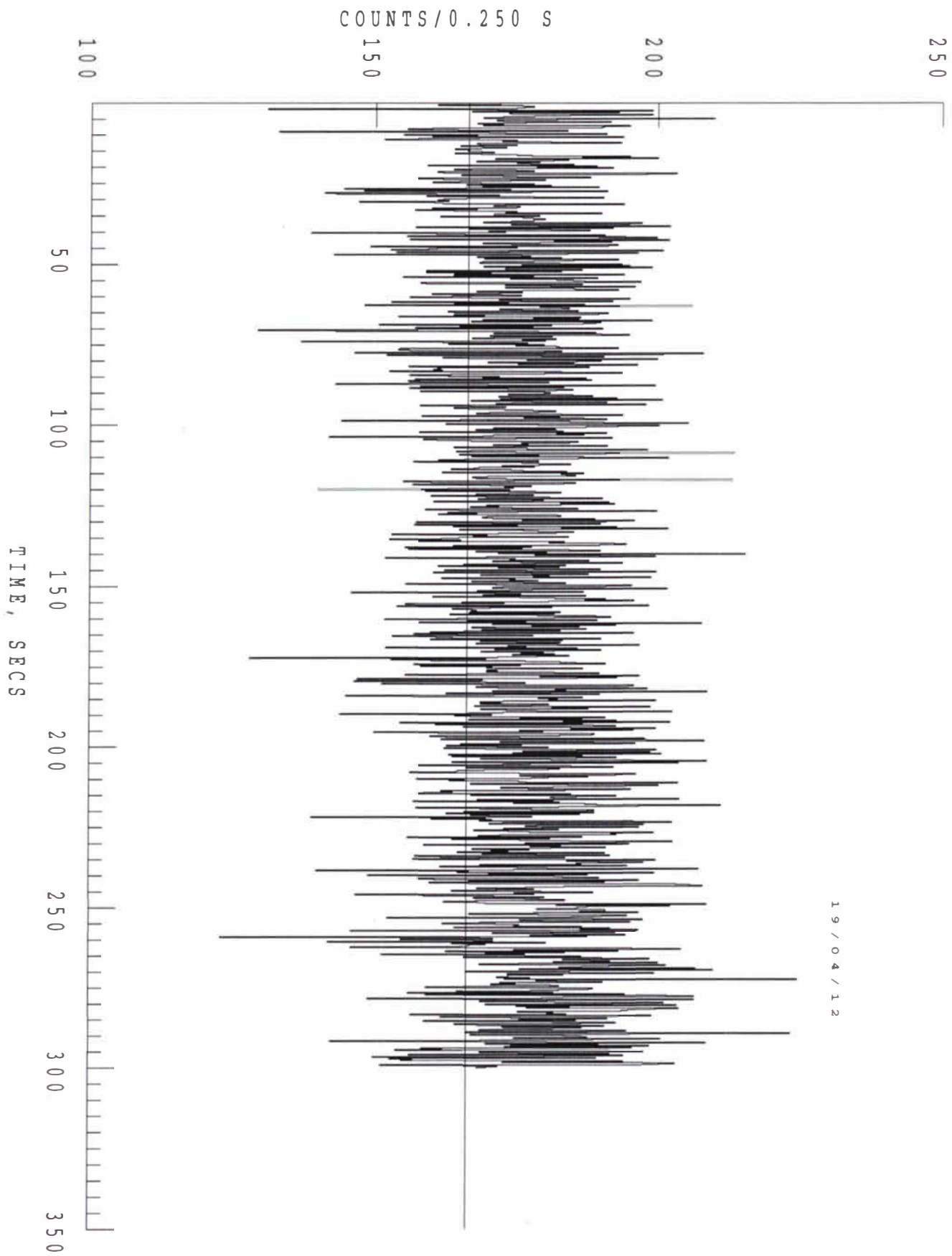


HESSI

19/04/12 61498.000 (INTEGRAL_20120419_61648)

25- 150 keV

U



Subject: [Ipn] BAT lightcurve for trigger at 120419_1707

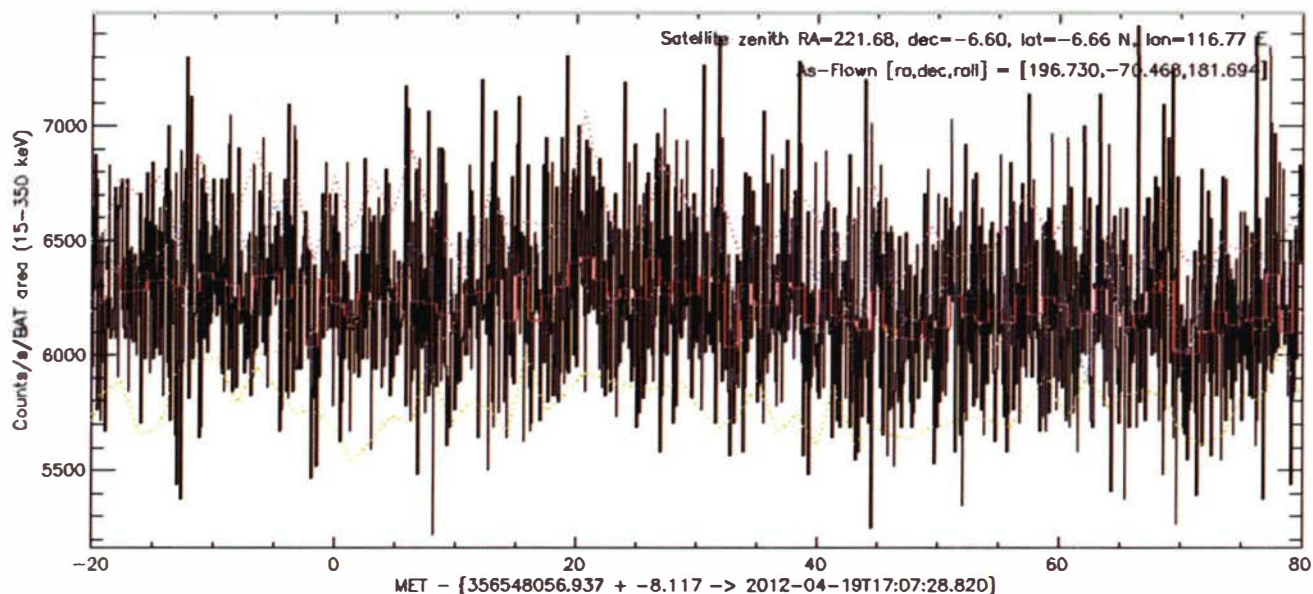
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/19/2012 1:21 PM

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/120419_1707.png



```
% /usr/local/bin/swinfo -o 356548056.937
Time(MET + UTCF -> UT): 356548056.937 + -8.117 -> 2012-04-19T17:07:28.820
Swift Zenith(RA,dec): 221.68, -6.60
Swift Location(lon,lat,alt): 116.77 E, -6.66 N, 576 km
Obs Sequence Number: 00032339009
Obs Target Name: MAXI J1305-704
Obs Date and Times: 2012-04-19 16:29:34 - 17:13:09
Obs Pointing(ra,dec,roll): 196.730, -70.468, 181.69
```

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

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

Attachments:

/tmp/120419_1707_bat64ms_ipn	87.0 KB
/tmp/120419_1707.png	24.4 KB

INTEGRAL

19/04/12

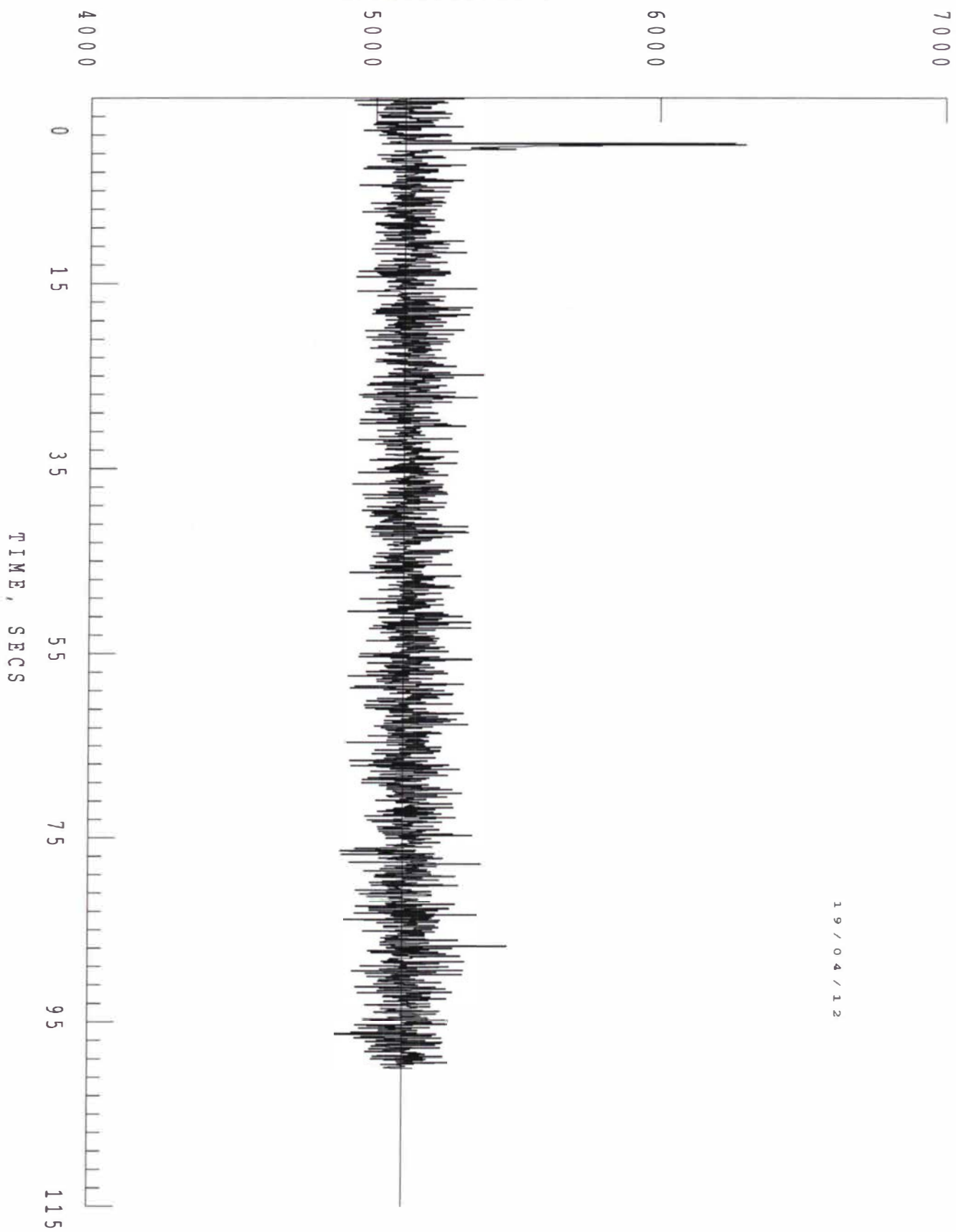
70198.699

19:29:58

E 6

100-10000 keV

COUNTS/0.050 S



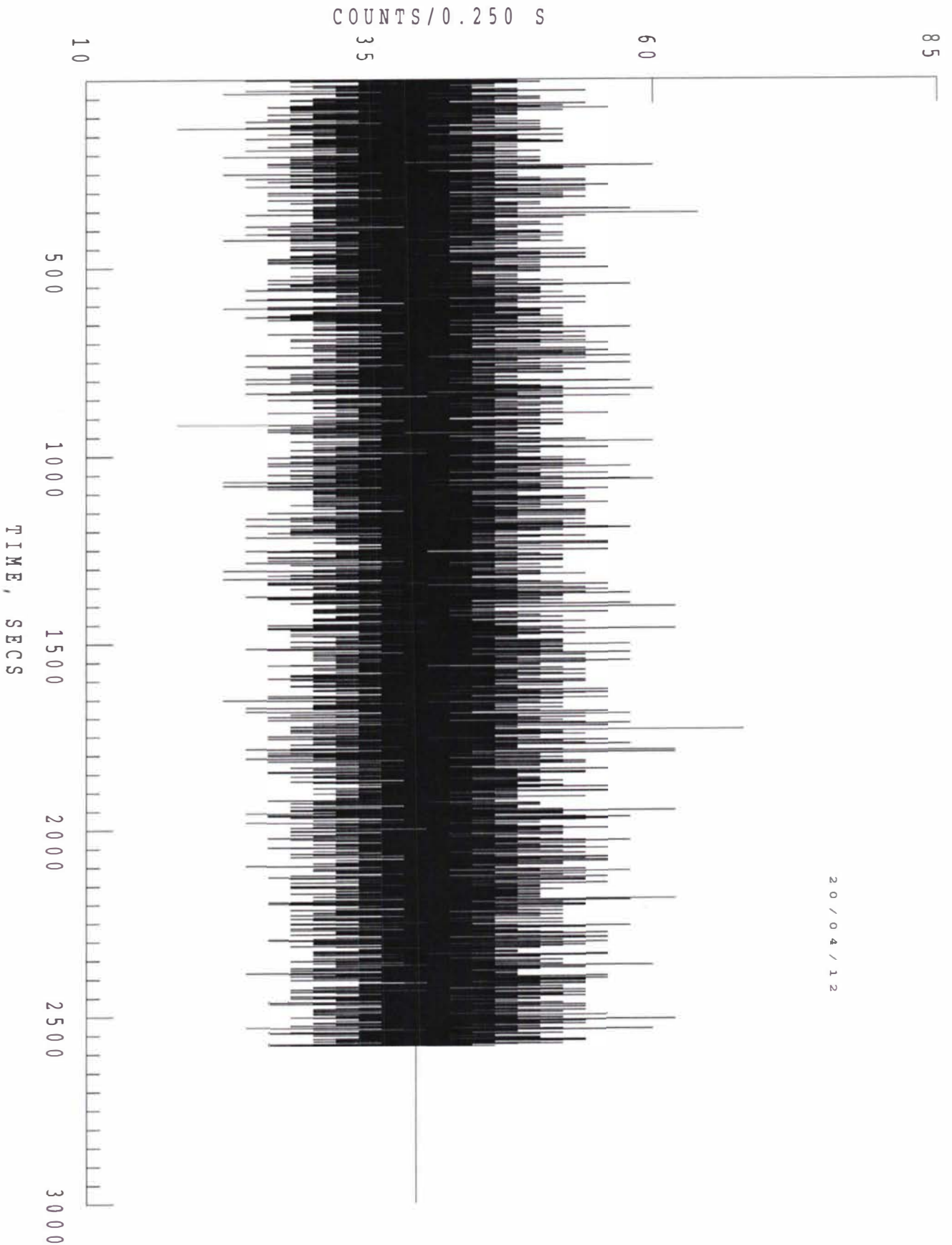
MS01

19/04/12

68879.825

6

50 - 3000 keV



6

From williams@gammaburst.ssl.berkeley.edu Thu Apr 19 18:05:35 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.147
-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Thu, 19 Apr 2012 17:56:53 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for INTEGRAL 20120419 70198
X-Ucb-Scan-Signature: c13077a7e36e4ee1116705ab76f3dc71b0b6409d
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T RP MATCHES RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 19-Apr-2012 18:04:53.00
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

Subject: [Ipn] BAT lightcurve for trigger at 120419_1929

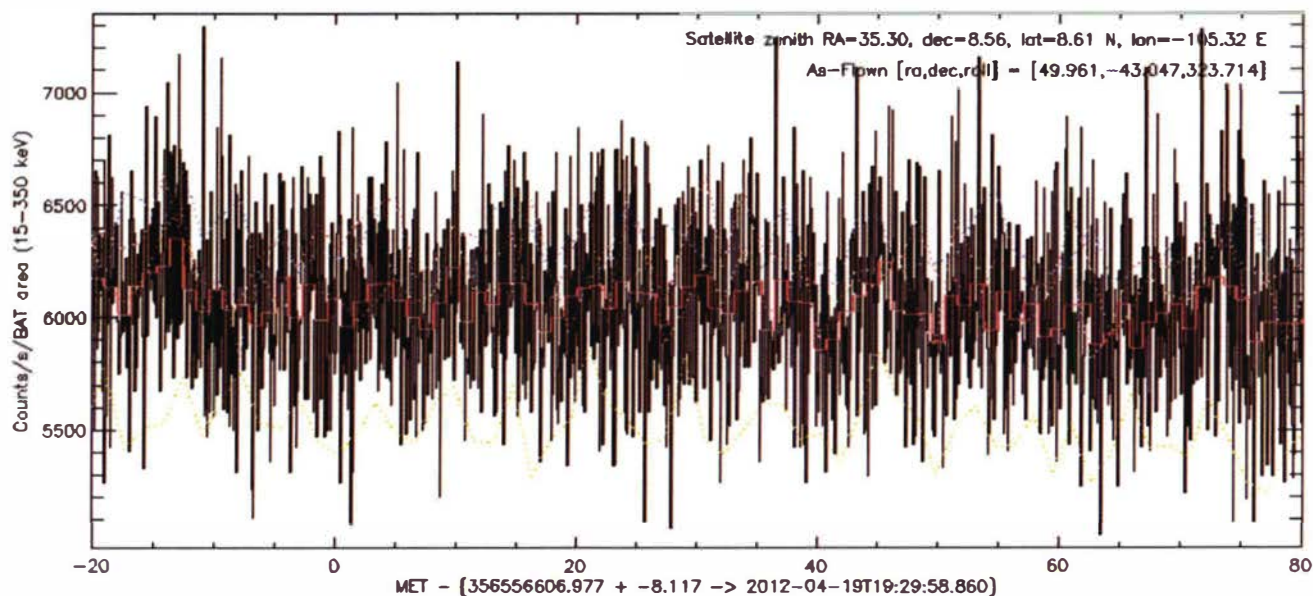
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/19/2012 4:08 PM

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/120419_1929.png



```
% /usr/local/bin/swinfo -o 356556606.977
Time(MET + UTC -> UT):      356556606.977 + -8.117 -> 2012-04-19T19:29:58.860
Swift Zenith(RA,dec):       35.30, 8.56
Swift Location(lon,lat,alt): -105.32 E, 8.61 N, 585 km
Obs Sequence Number:        00091391002
Obs Target Name:             HD20794
Obs Date and Times:          2012-04-19 19:13:53 - 19:35:50
Obs Pointing(ra,dec,roll):   49.961, -43.047, 323.71
```

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

Attachments:

/tmp/120419_1929_bat64ms_ipn	87.1 KB
/tmp/120419_1929.png	24.2 KB

INTEGRAL

19/04/12

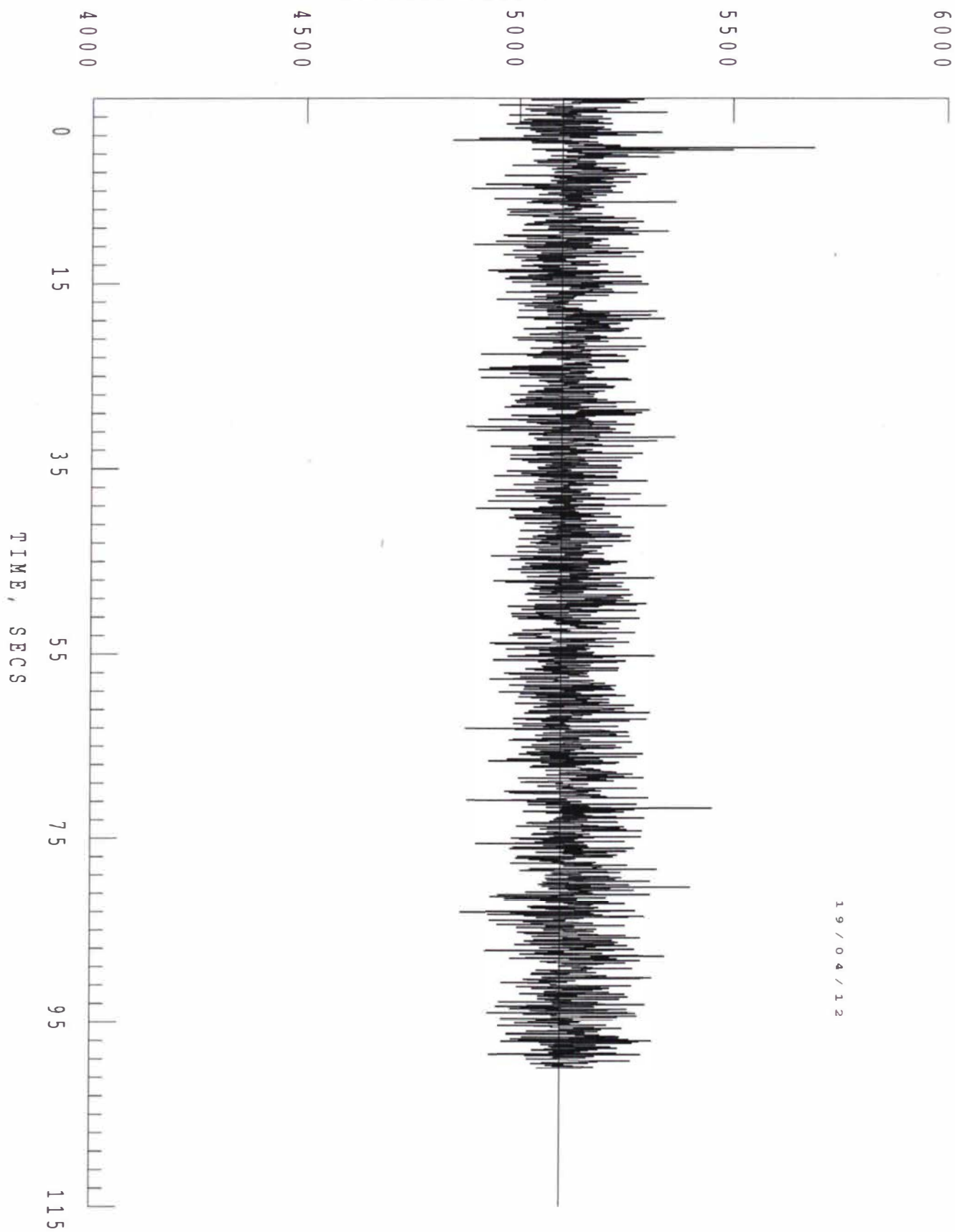
71206.450

19:46:46

BH

100-10000 keV

COUNTS/0.050 S

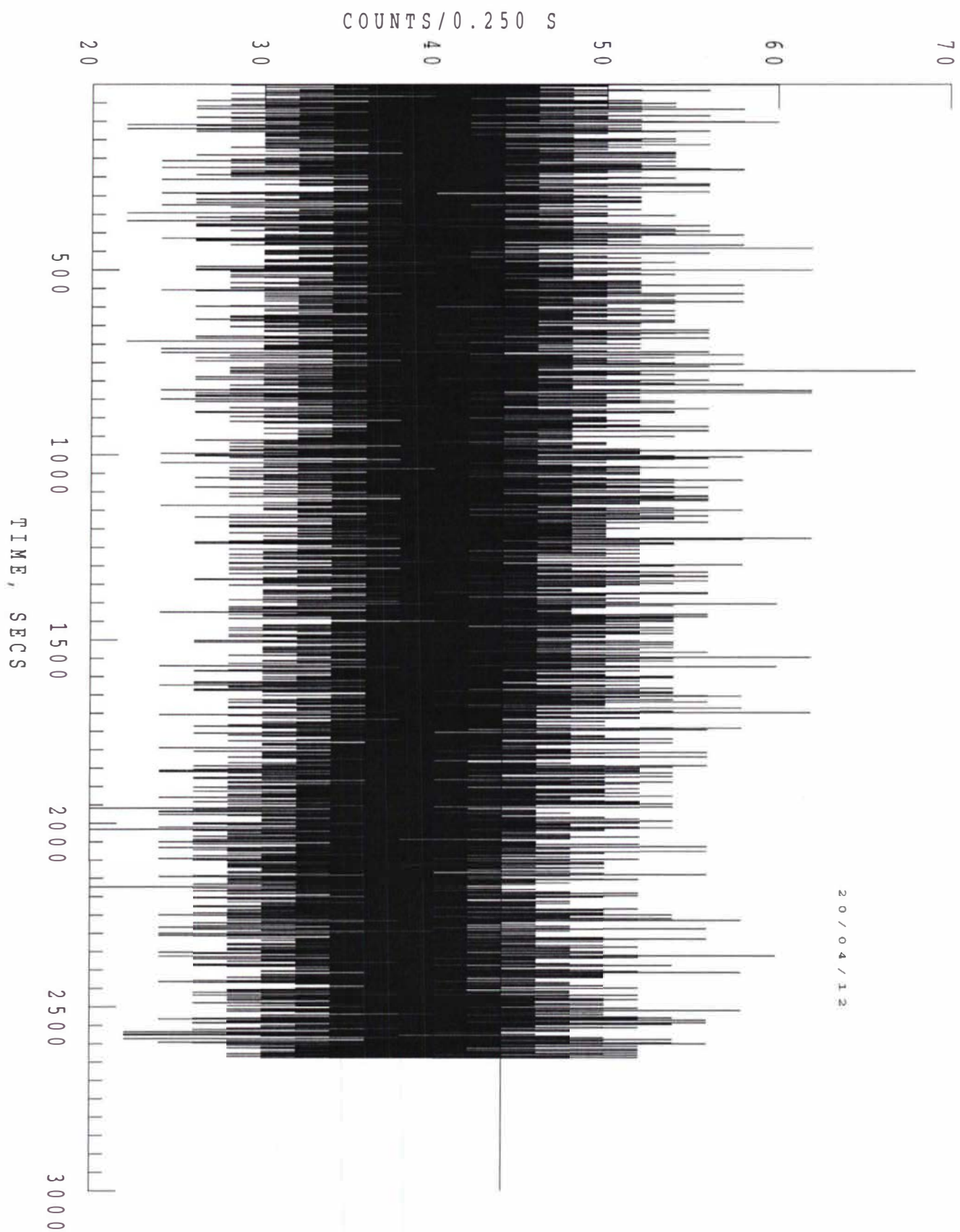


MS01

19/04/12

69839.804

50 - 3000 keV



From williams@gammaburst.ssl.berkeley.edu Tue Apr 24 23:16:23 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Tue, 24 Apr 2012 23:07:37 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_INTEGRAL_20120419_71206
X-Ucb-Scan-Signature: 5ccfb00ddd925fe380a3fac1bea8c780f9df0d27
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 24-Apr-2012 23:15:44.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Time Range Partially in SAA
Full time range in eclipse
Time Range Partially in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

I

INTEGRAL

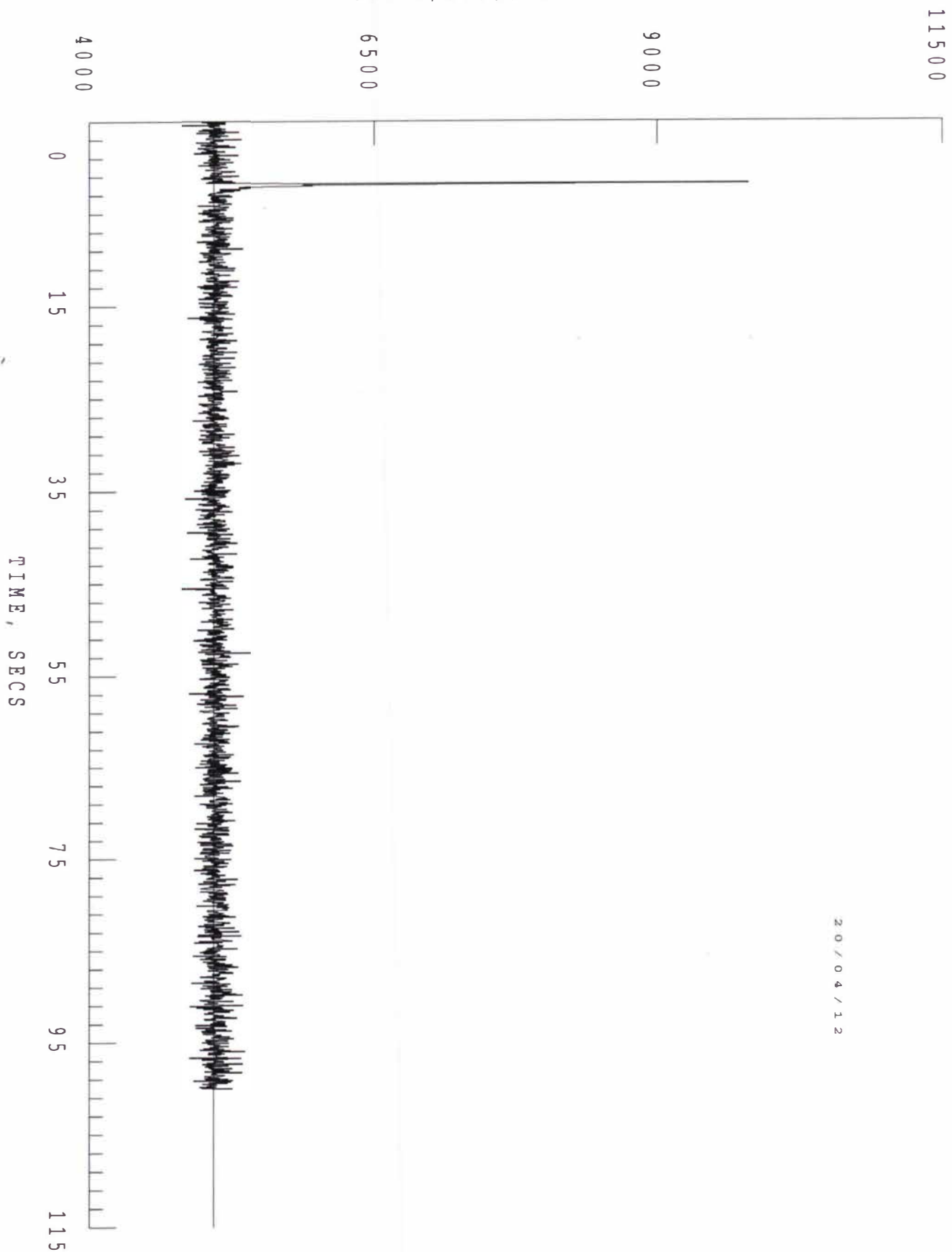
19/04/12

82726.106

22:58:46

100-10000 keV

COUNTS/0.050 S



MS01

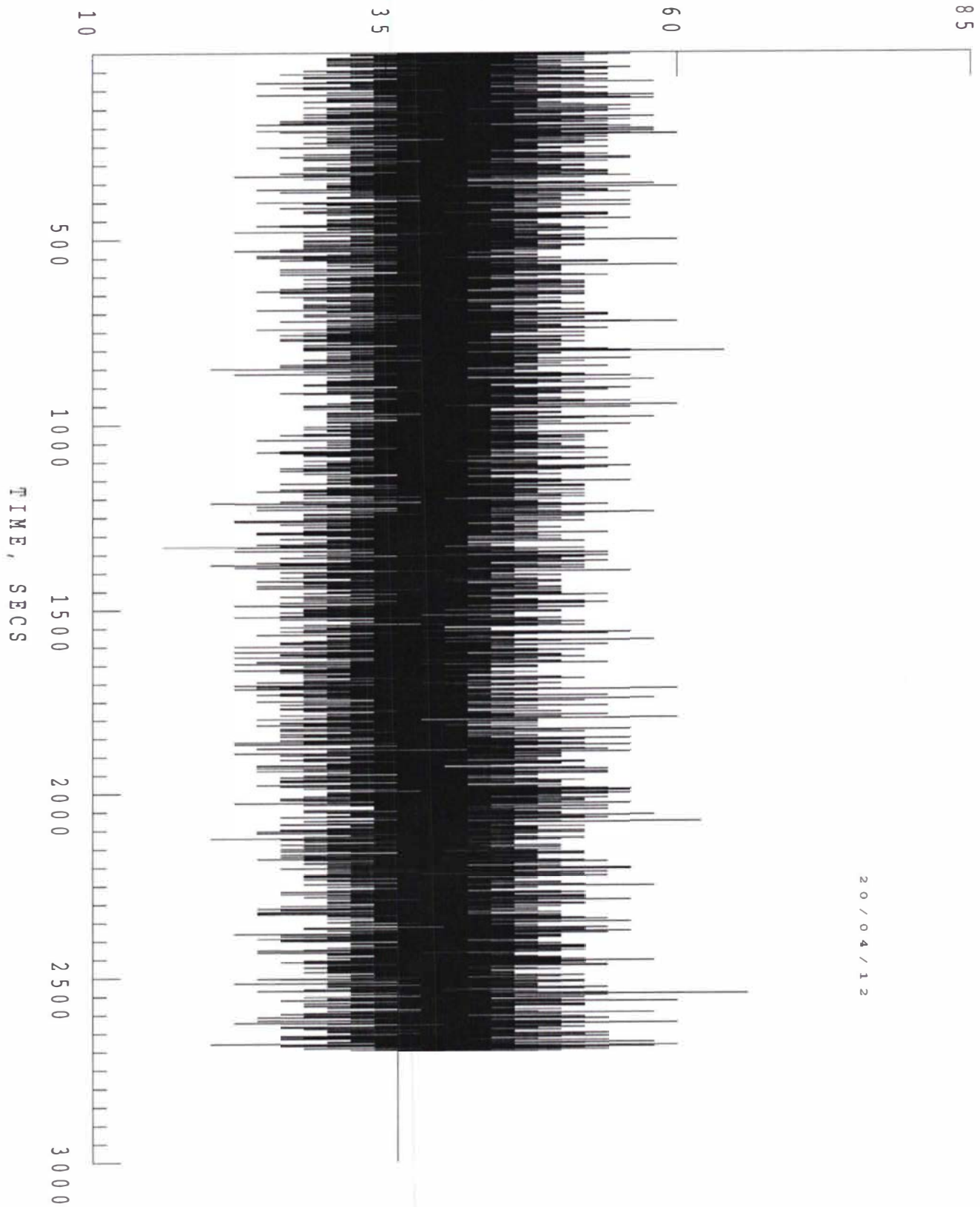
19/04/12

81359.608

H

50 - 3000 keV

COUNTS/0.250 S



20/04/12

From williams@gammaburst.ssl.berkeley.edu Fri Apr 20 07:05:55 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.145
-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Fri, 20 Apr 2012 06:57:08 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for INTEGRAL 20120419_82726
X-Ucb-Scan-Signature: 370d7cea4db9e21559f4a093d138b2943d3c3073
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 20-Apr-2012 07:05:09.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

Subject: [Ipn] BAT lightcurve for trigger at 120419_2258

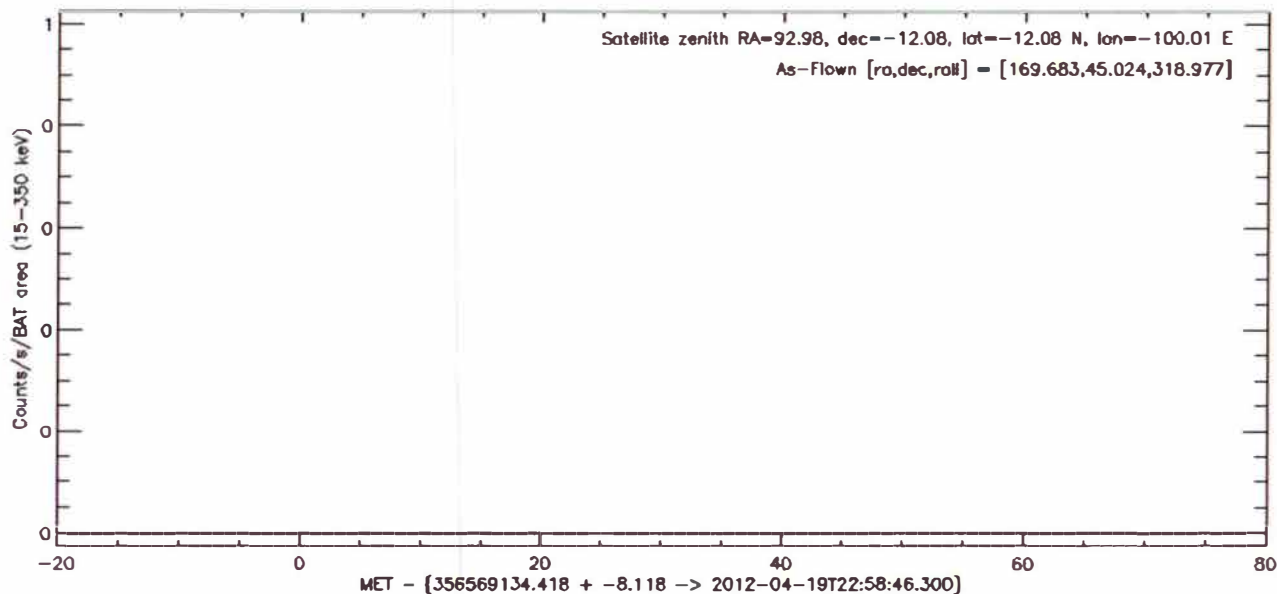
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 8:26 AM

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/120419_2258.png



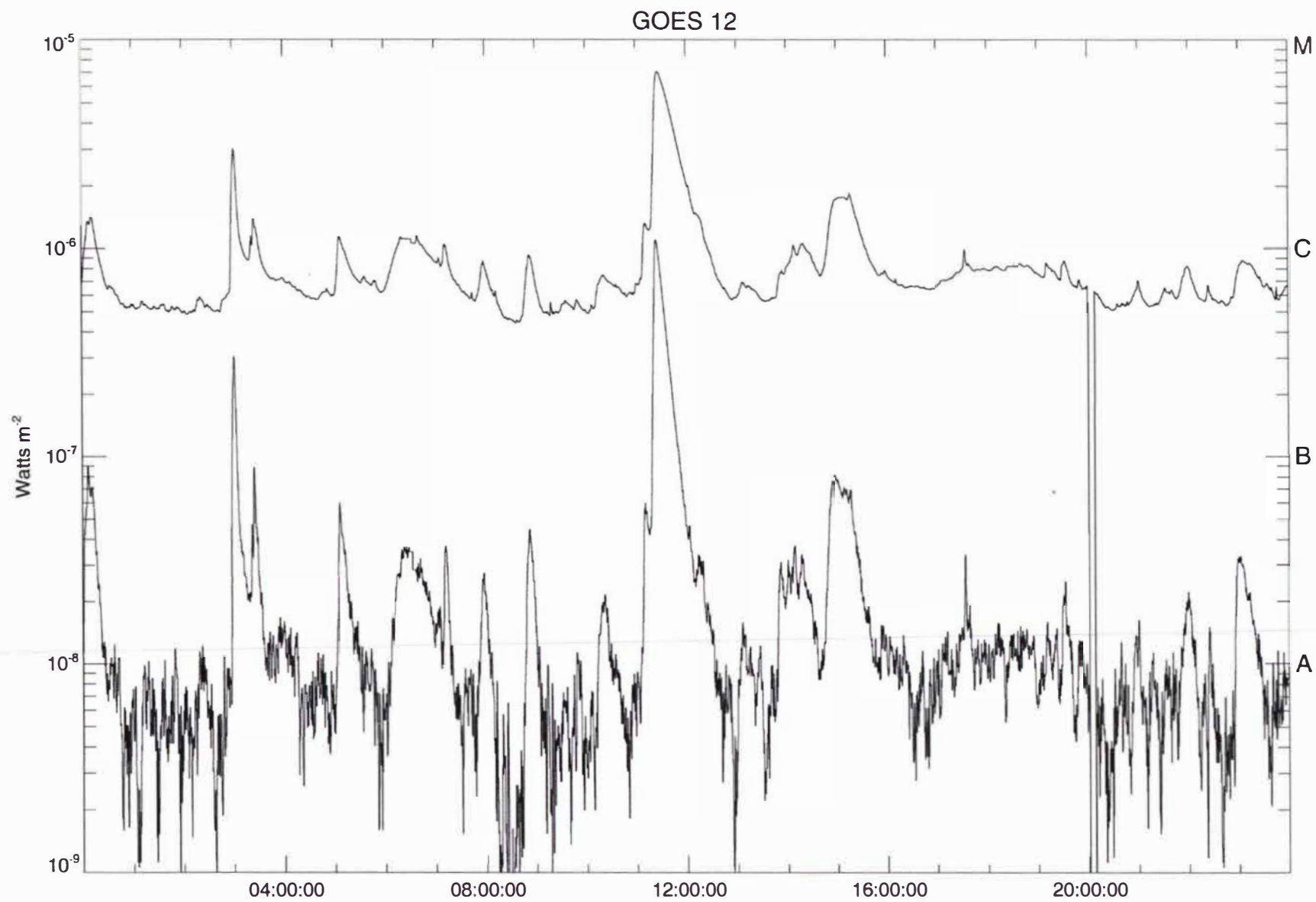
```
% /usr/local/bin/swinfo -o 356569134.418
Time(MET + UTC -> UT):      356569134.418 + -8.118 -> 2012-04-19T22:58:46.300
Swift Zenith(RA,dec):       92.98, -12.08
Swift Location(lon,lat,alt): -100.01 E, -12.08 N, 592 km
Obs Sequence Number:        00074968016
Obs Target Name:            saa-cold-110-08
Obs Date and Times:         2012-04-19 22:53:53 - 23:22:48
Obs Pointing(ra,dec,roll):  169.683, 45.024, 318.98
```

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

Attachments:

/tmp/120419_2258.png	5.5 KB
/tmp/120419_2258_bat64ms_ipn	87.1 KB



Data Start: 12/04/19, 0000:10

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 12/04/22, 0840

Sample average = 10

Subject: RE: MESSENGER data
From: "Goldsten, John" <John.Goldsten@jhuapl.edu>
Date: 4/23/2012 10:14 AM
To: Kevin Hurley <khurley@ssl.berkeley.edu>
CC: "Ensor, Susan L." <Susan.Ensor@jhuapl.edu>

Hi Kevin,

As far as I know, access to the EDR files via the SOC has not changed since we entered the extended mission phase, but perhaps Susan can comment. I have had no trouble getting into the SOC with the usual password.

Perhaps the problem is that the NS high voltage was disabled from approximately April 15-21 to accommodate the spacecraft engine burn to shorten the orbit about Mercury from 12 to 8 hr. This would explain why you wouldn't see any GAB records from DOY 108-111.

Regards,
John

-----Original Message-----

From: Kevin Hurley [<mailto:khurley@ssl.berkeley.edu>]
Sent: Monday, April 23, 2012 12:31 PM
To: Goldsten, John; khurley@ssl.berkeley.edu
Subject: MESSENGER data

Dear John,

I have not been able to get into the MESSENGER server for several days now. Has there been a password change?

Kevin

Subject: [Ipn] BAT lightcurve for trigger at 120420_0016

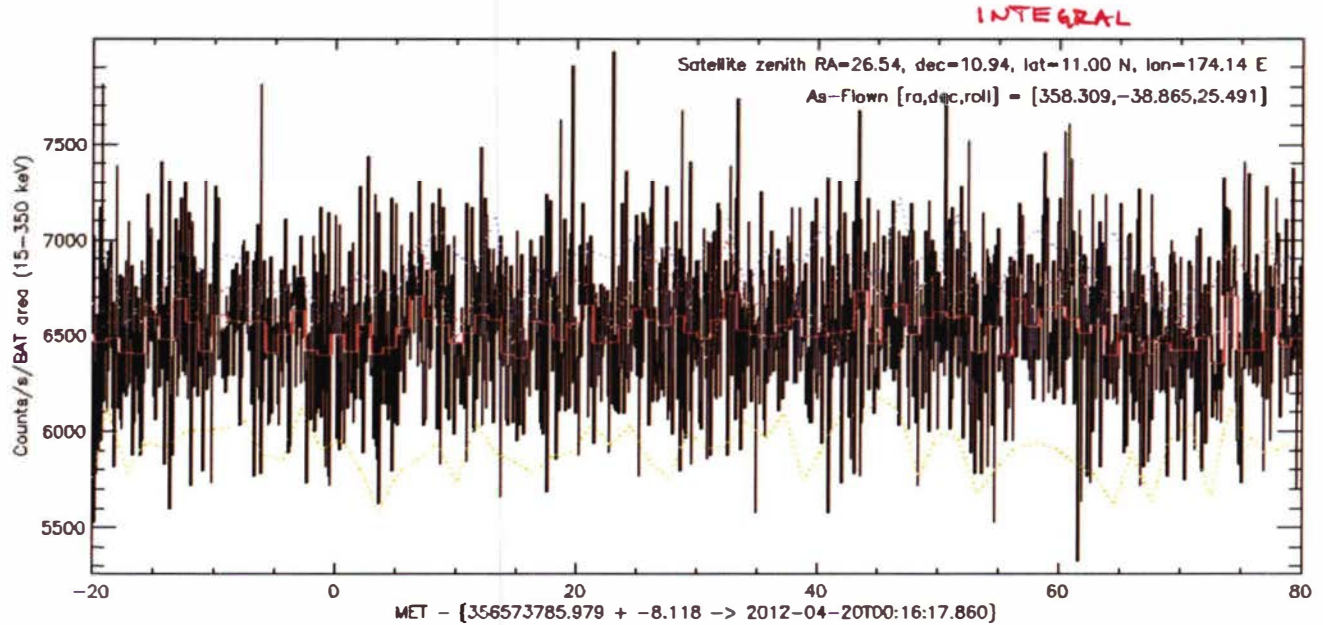
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 8:59 AM

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/120420_0016.png



```
% /usr/local/bin/swinfo -o 356573785.978
Time(MET + UTC -> UT): 356573785.979 + -8.118 -> 2012-04-20T00:16:17.860
Swift Zenith(RA,dec): 26.54, 10.94
Swift Location(lon,lat,alt): 174.14 E, 11.00 N, 583 km
Obs Sequence Number: 00091409002
Obs Target Name: BW SCL
Obs Date and Times: 2012-04-19 23:59:53 - 00:20:50
Obs Pointing(ra,dec,roll): 358.309, -38.865, 25.49
```

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Attachments:

/tmp/120420_0016_bat64ms_ipn	87.0 KB
/tmp/120420_0016.png	21.9 KB

GLAST

20/04/12

21487.257

05:58:07

A

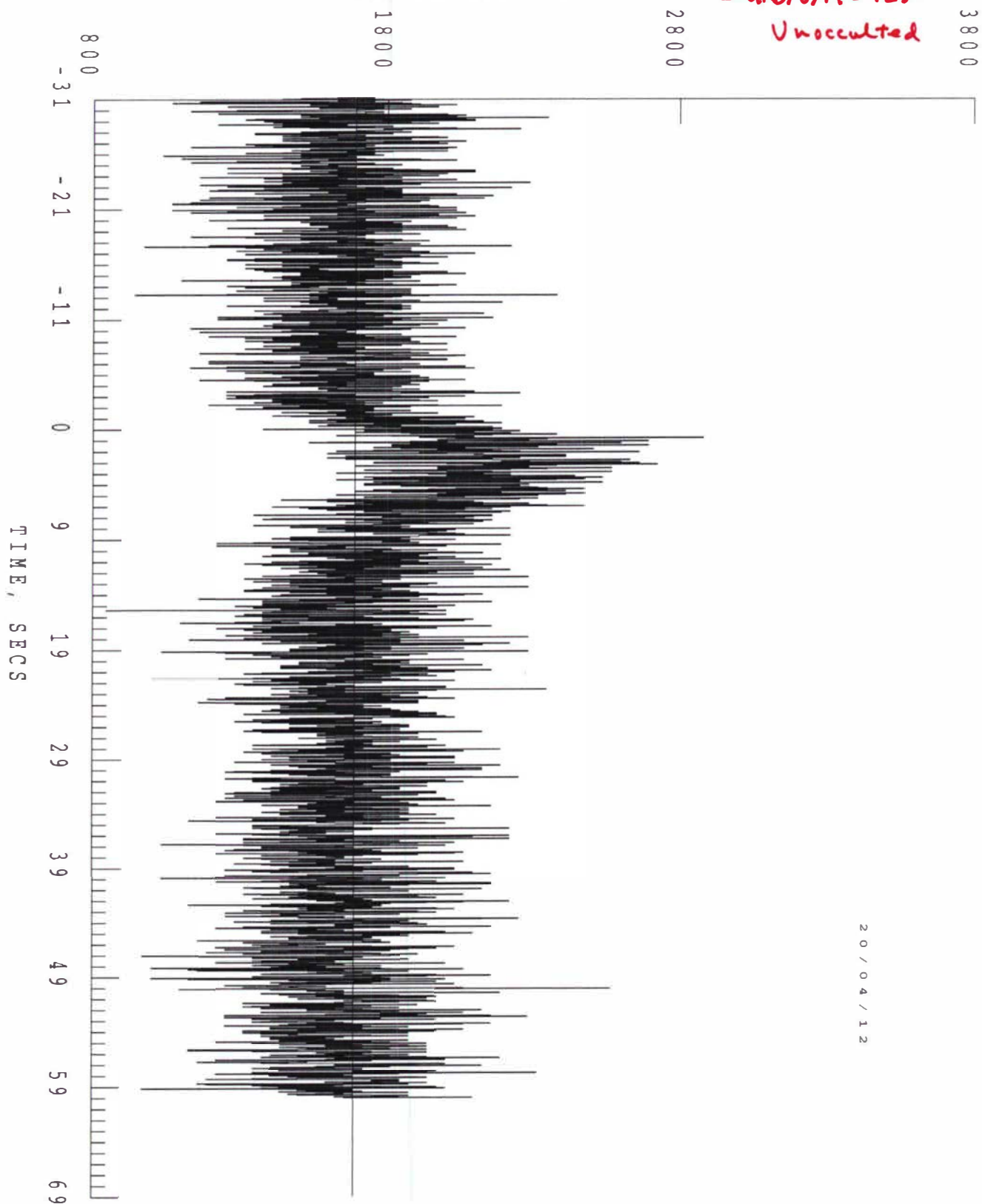
26- 293 keV

47.89, -51.81, 5.44

COUNTS/0.032 S

LGRB/0/M = 129°

Unocculted



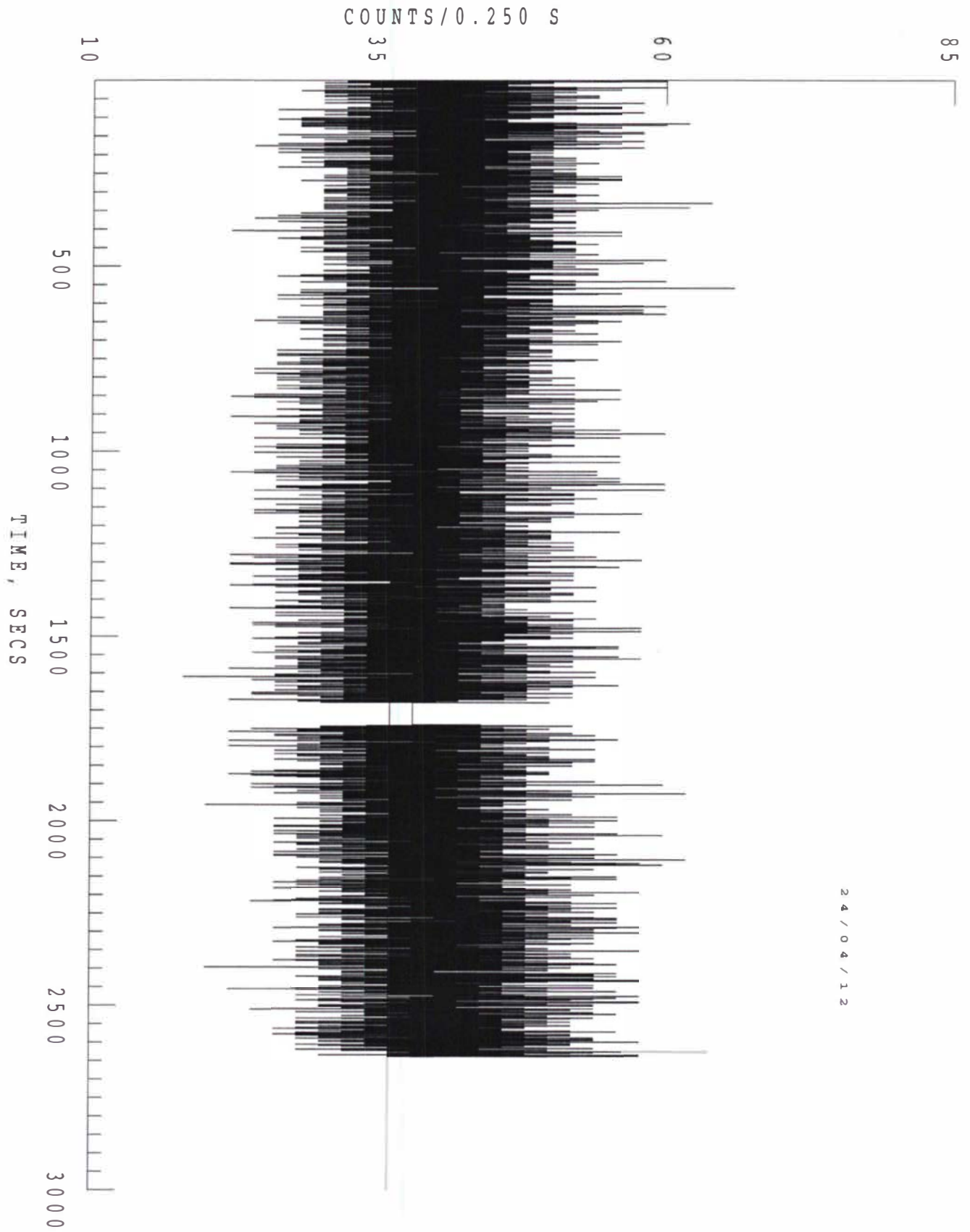
MS01

20/04/12

20159.152

A

50 - 3000 keV



A

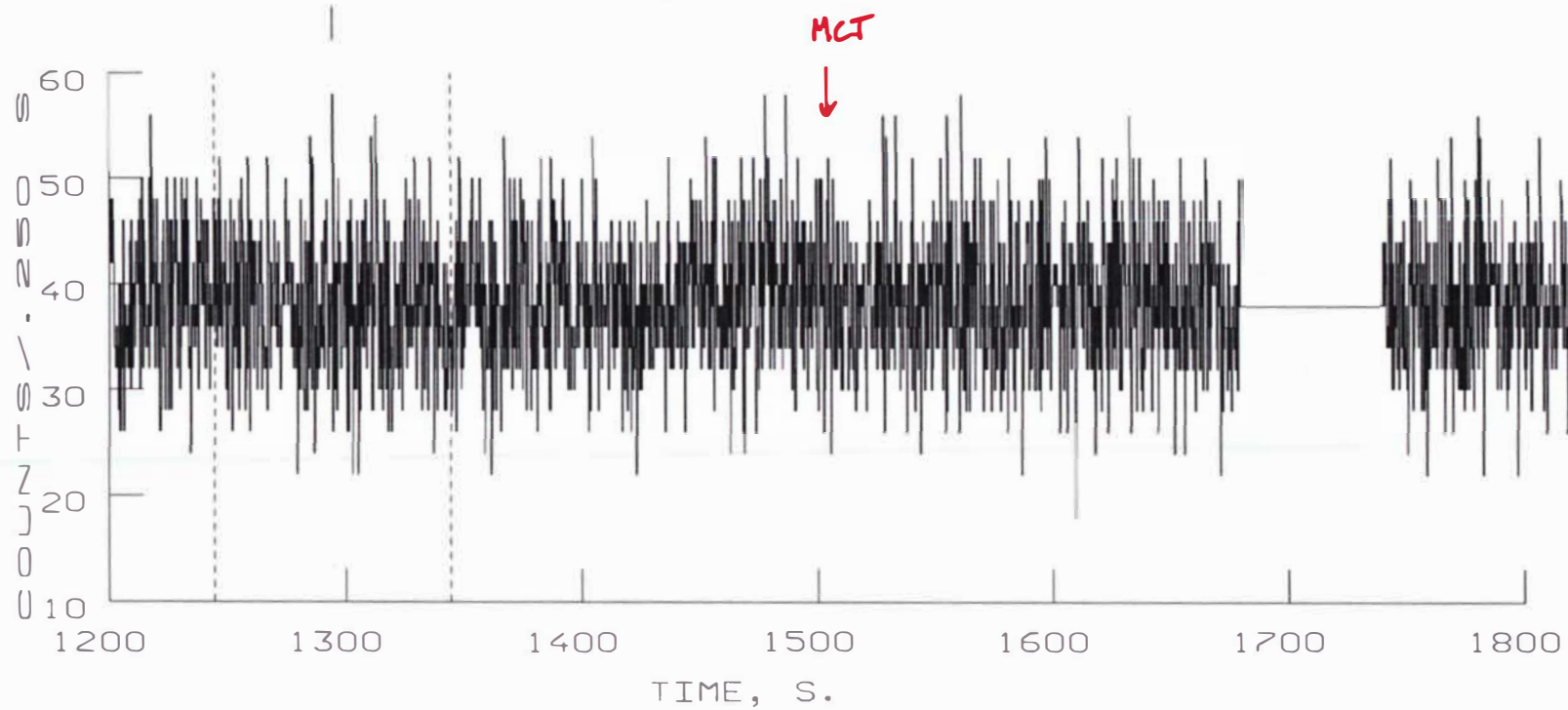
MS01 HEND

19/07/2012

20/04/2012 20159.152 s

50-3000 keV

MAXIMUM



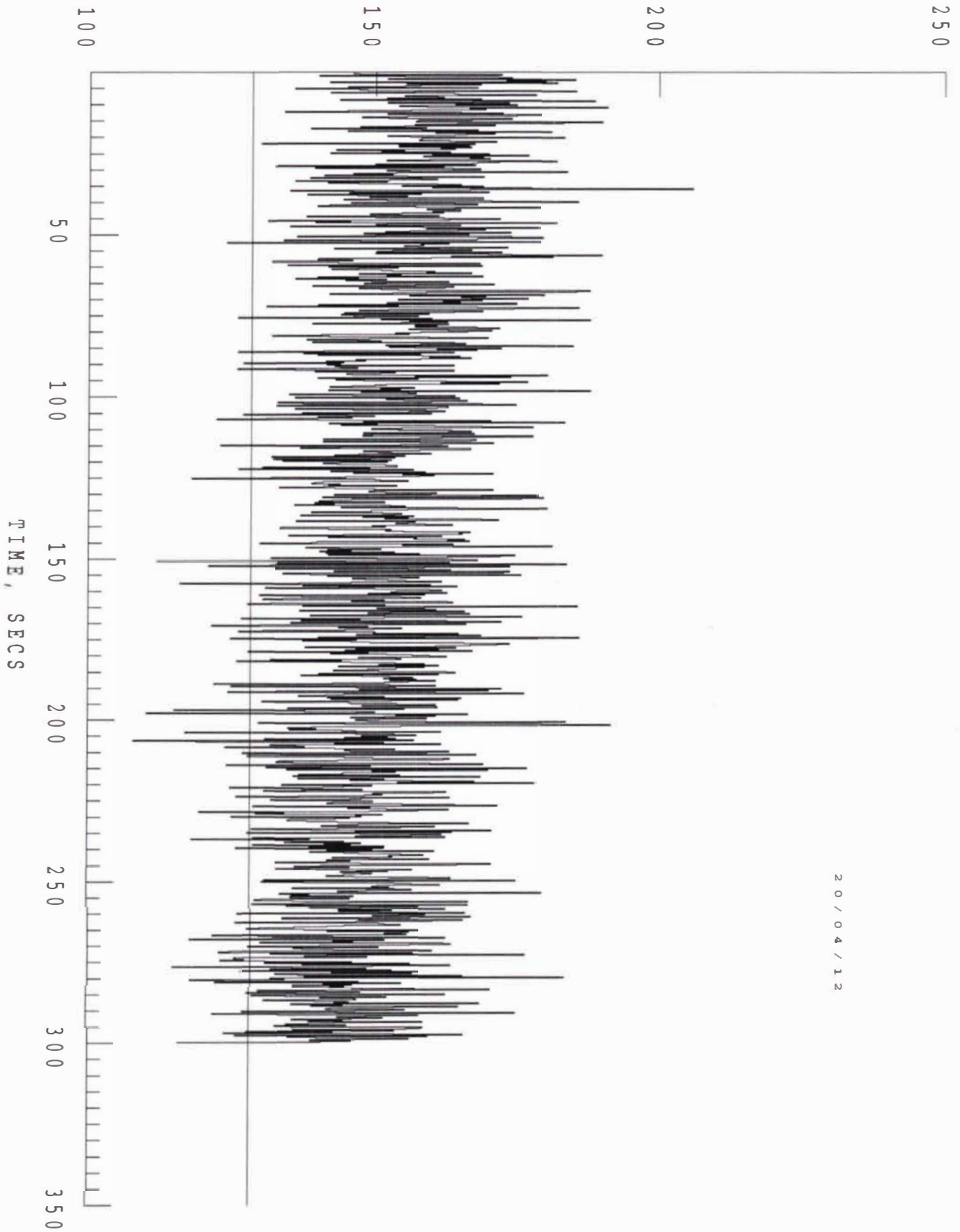
HESSI

20/04/12 21337.000 (GLAST_20120420_21487)

A

25- 150 keV

COUNTS/0.250 S



Subject: [Ipn] BAT lightcurve for trigger at 120420_0558

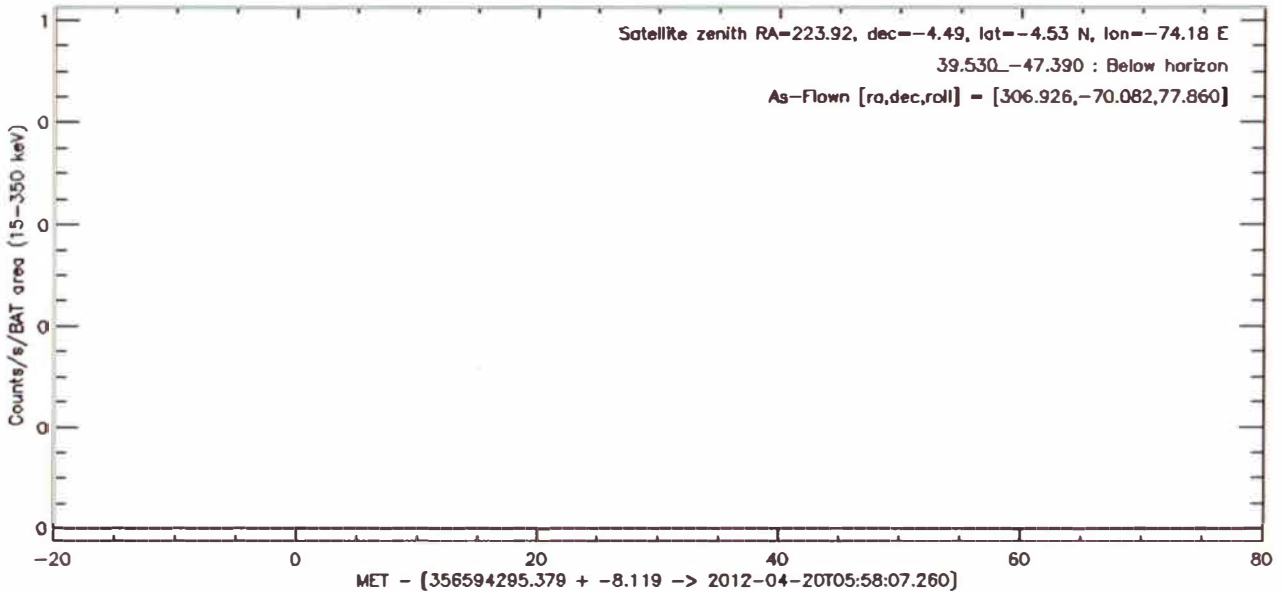
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 8:59 AM

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/120420_0558.png



```
% /usr/local/bin/swinfo -o 356594295.379 -s 39.530-47.390
Time(MET + UTCF -> UT):      356594295.379 + -8.119 -> 2012-04-20T05:58:07.260
Swift Zenith(RA,dec):        223.92, -4.49
Swift Location(lon,lat,alt):  -74.18 E, -4.53 N, 576 km
Obs Sequence Number:         00074331043
Obs Target Name:              saa-cold-111-03
Obs Date and Times:           2012-04-20 05:44:53 - 06:02:50
Obs Pointing(ra,dec,roll):    306.926, -70.082, 77.86
39.530-47.390_imageloc (boresight_dist, angle): (47, -55)
39.530-47.390_exposure (cm² cos adjusted): 364
39.530-47.390_altitude: -15 (down)
```

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

Attachments:

/tmp/120420_0558.png	5.9 KB
/tmp/120420_0558_bat64ms_ipn	87.1 KB

Date: Mar 29 2013

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

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

2. AGILE Data

- ☐ 1 second timing error corrected?

3. MESSENGER Data

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

4. For Konus events

- ☒ Konus ecliptic latitude used with latest calibration?

5. For Odyssey events

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

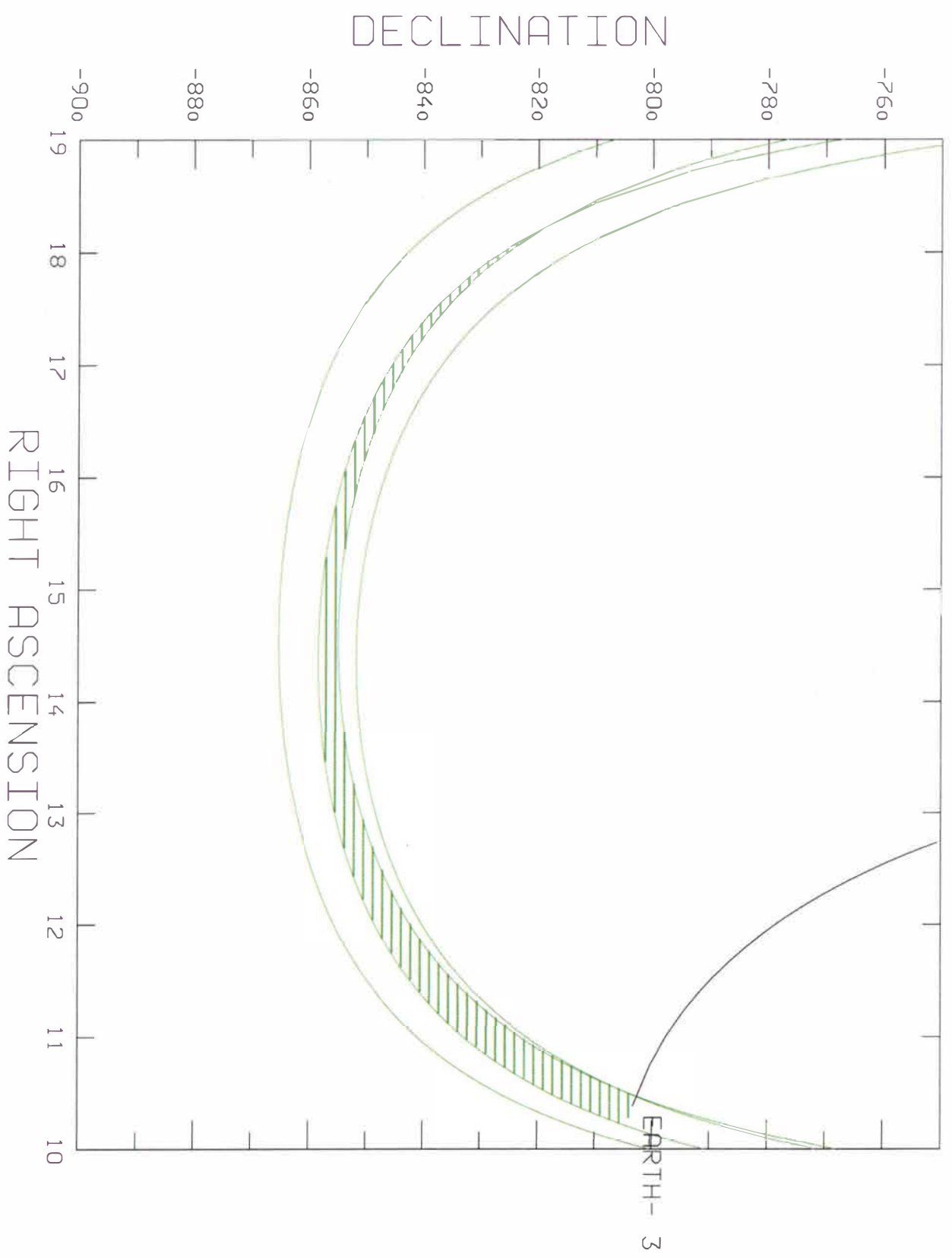
6. For 3 or More Spacecraft events

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

7. For INTEGRAL events

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

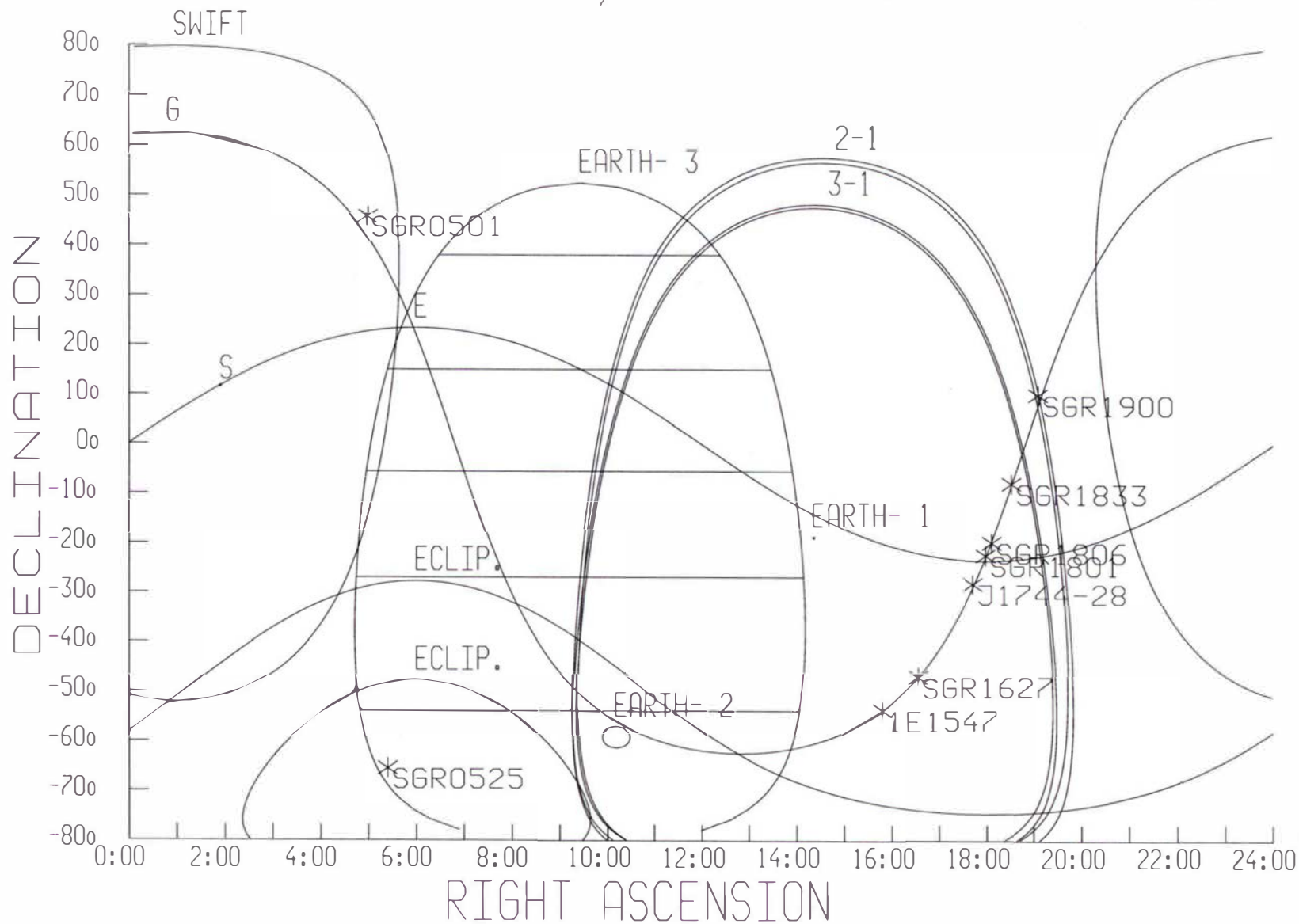
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

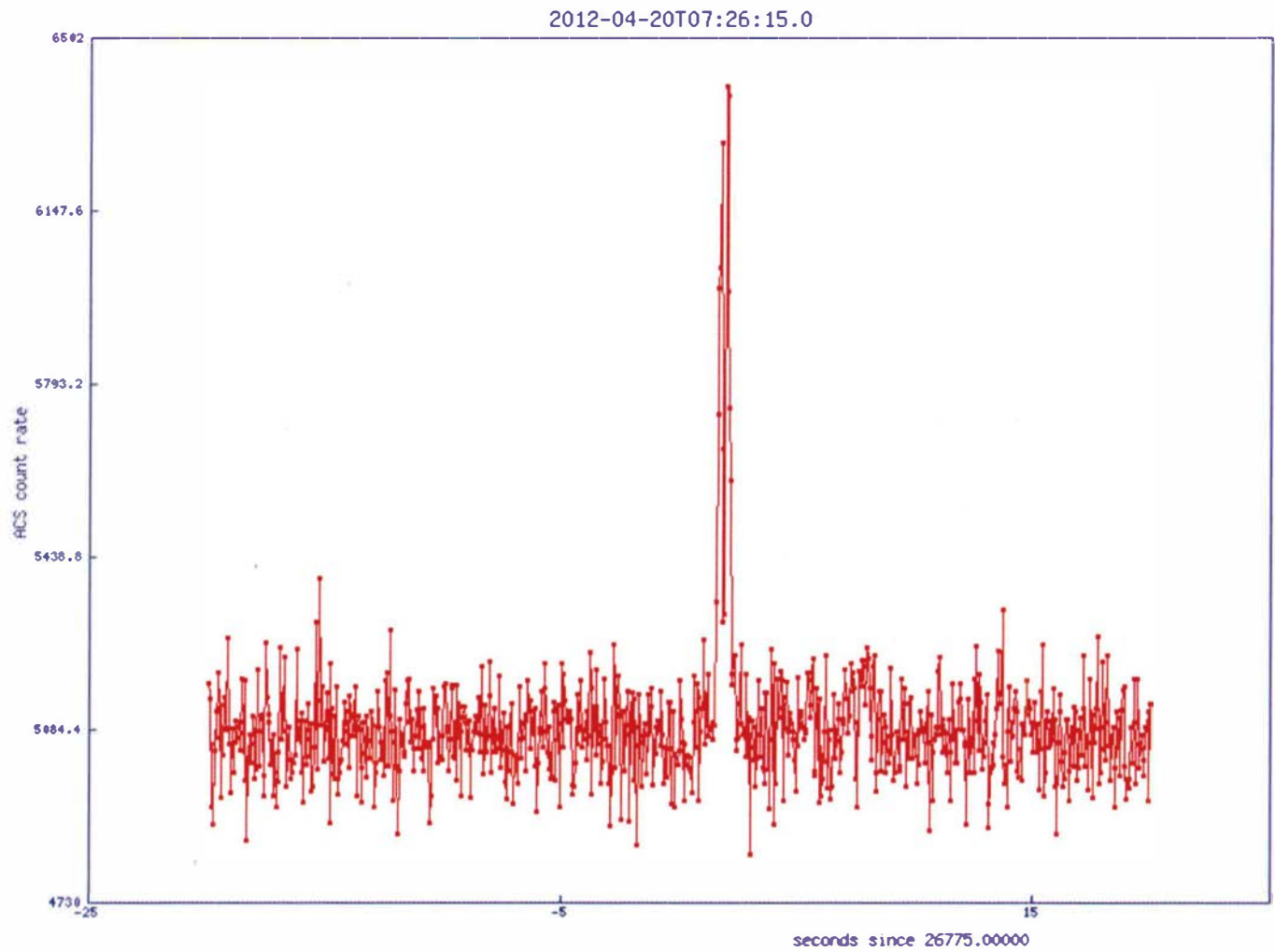


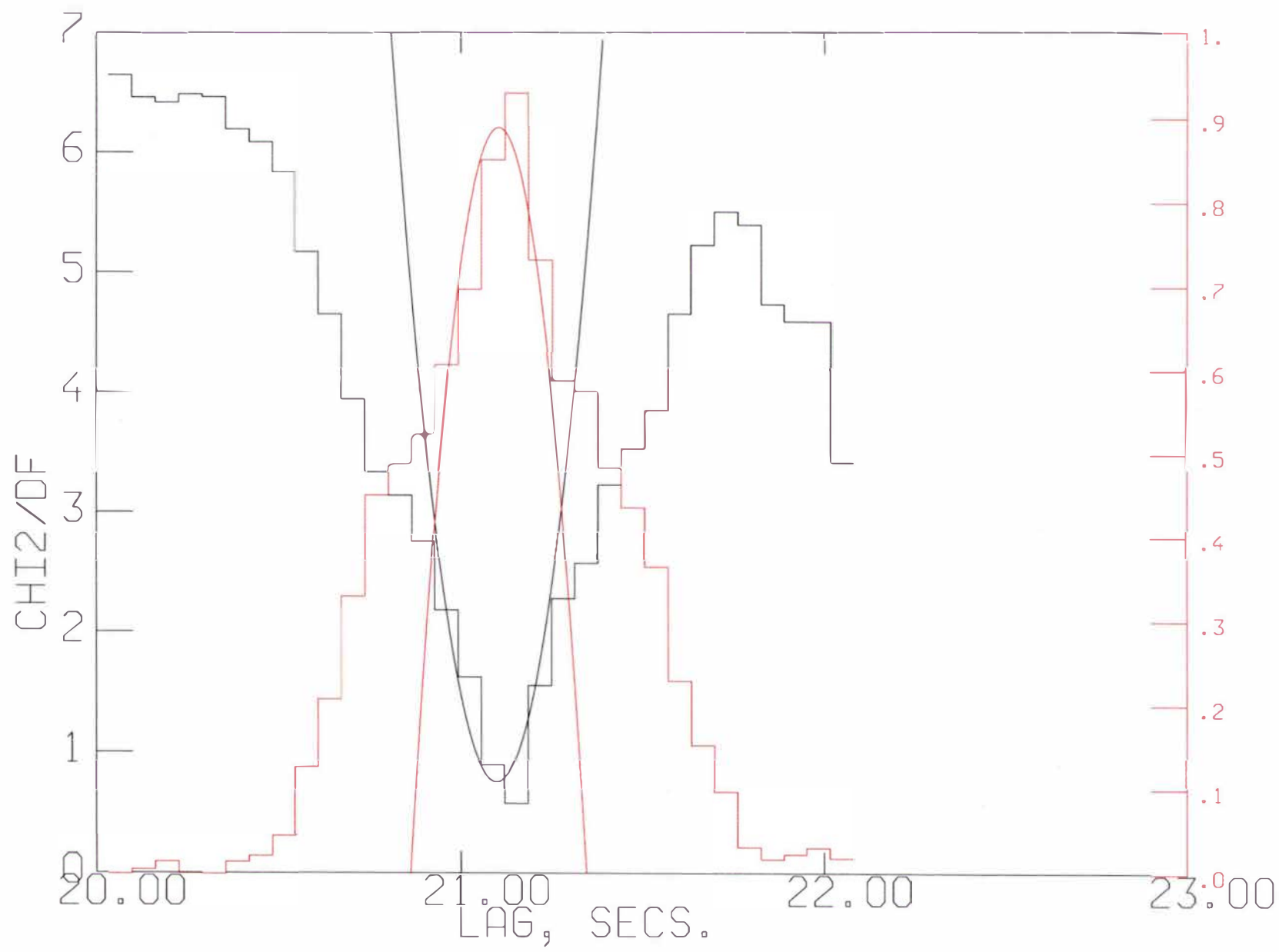
EVENT OF APR 20, 2012 7:26

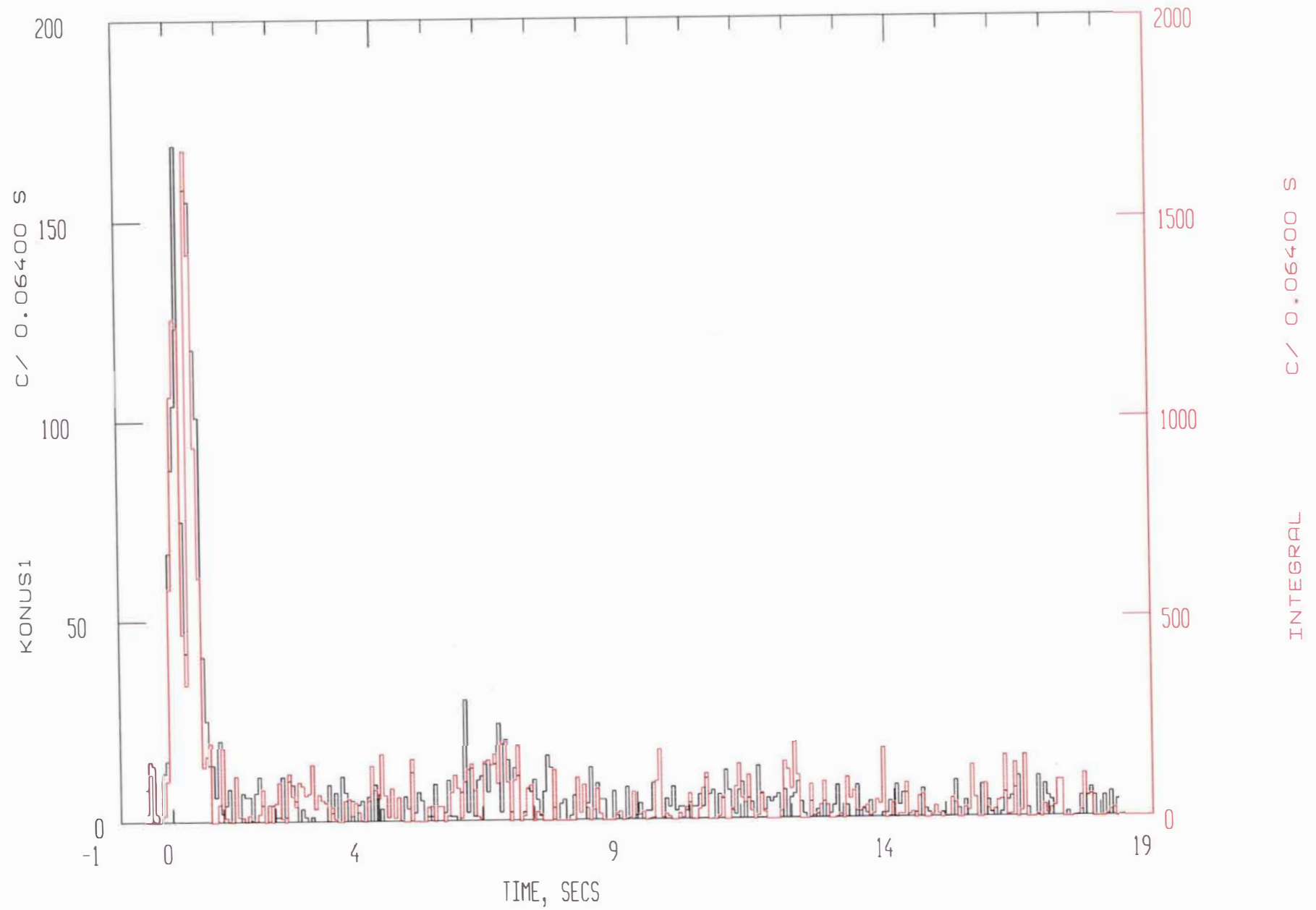
29/03/2013

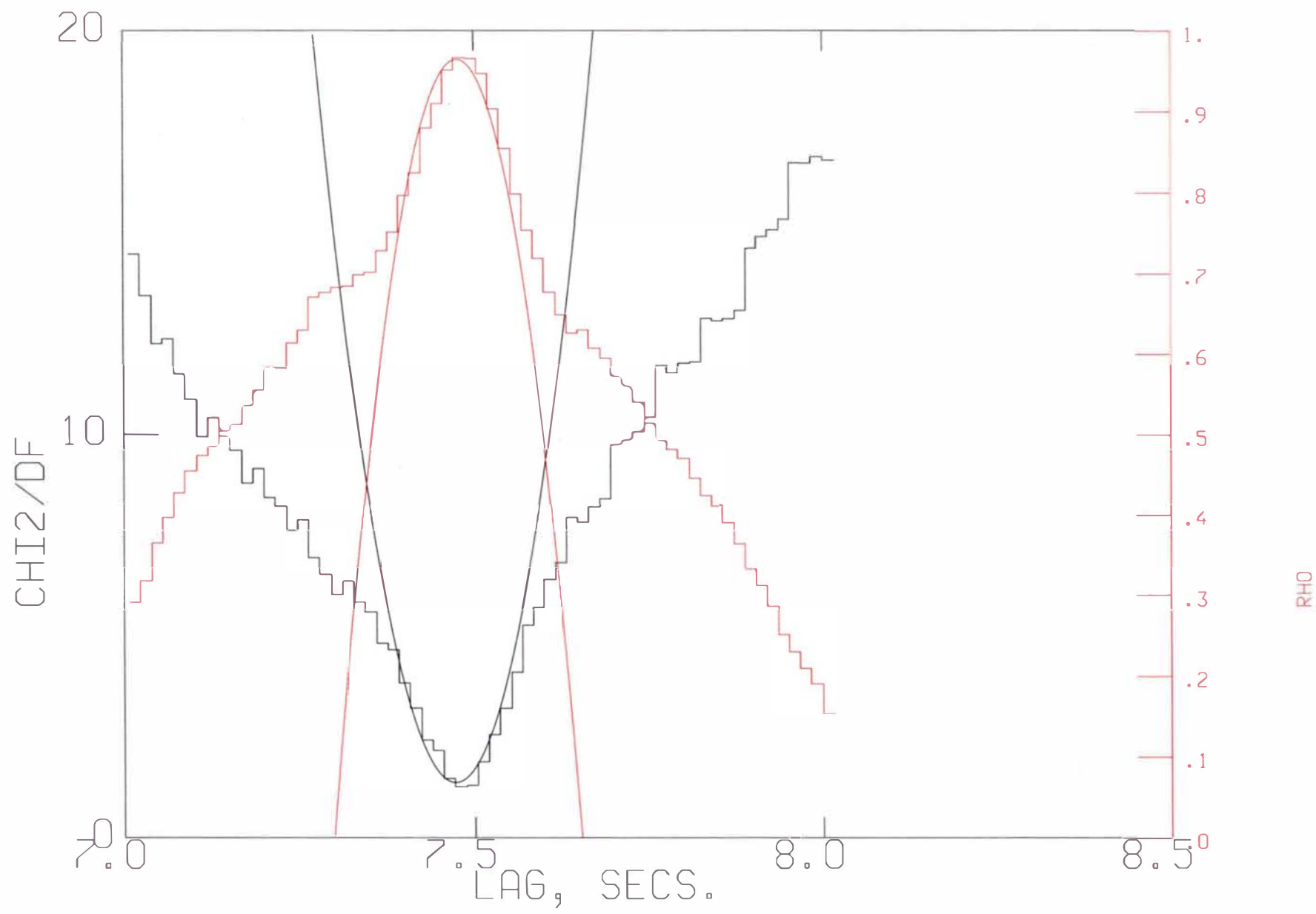
N-N = CORRELATION BETWEEN SATELLITES N AND N
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN
 E=ECLIPTIC
 G=GALACTIC EQUATOR
 1 KONUS1 2 INTEGRAL 3 SUZAKU

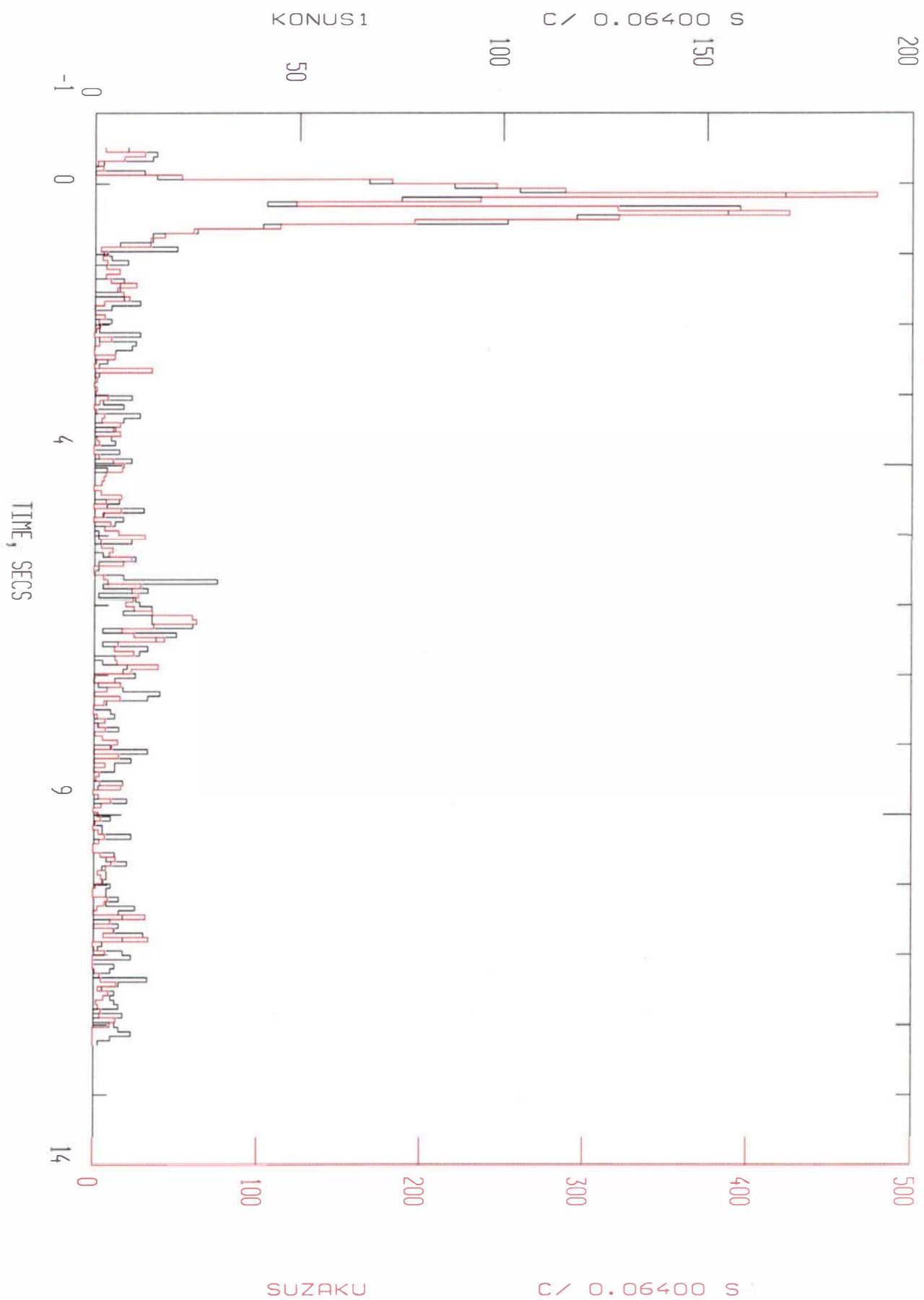












KONUS1

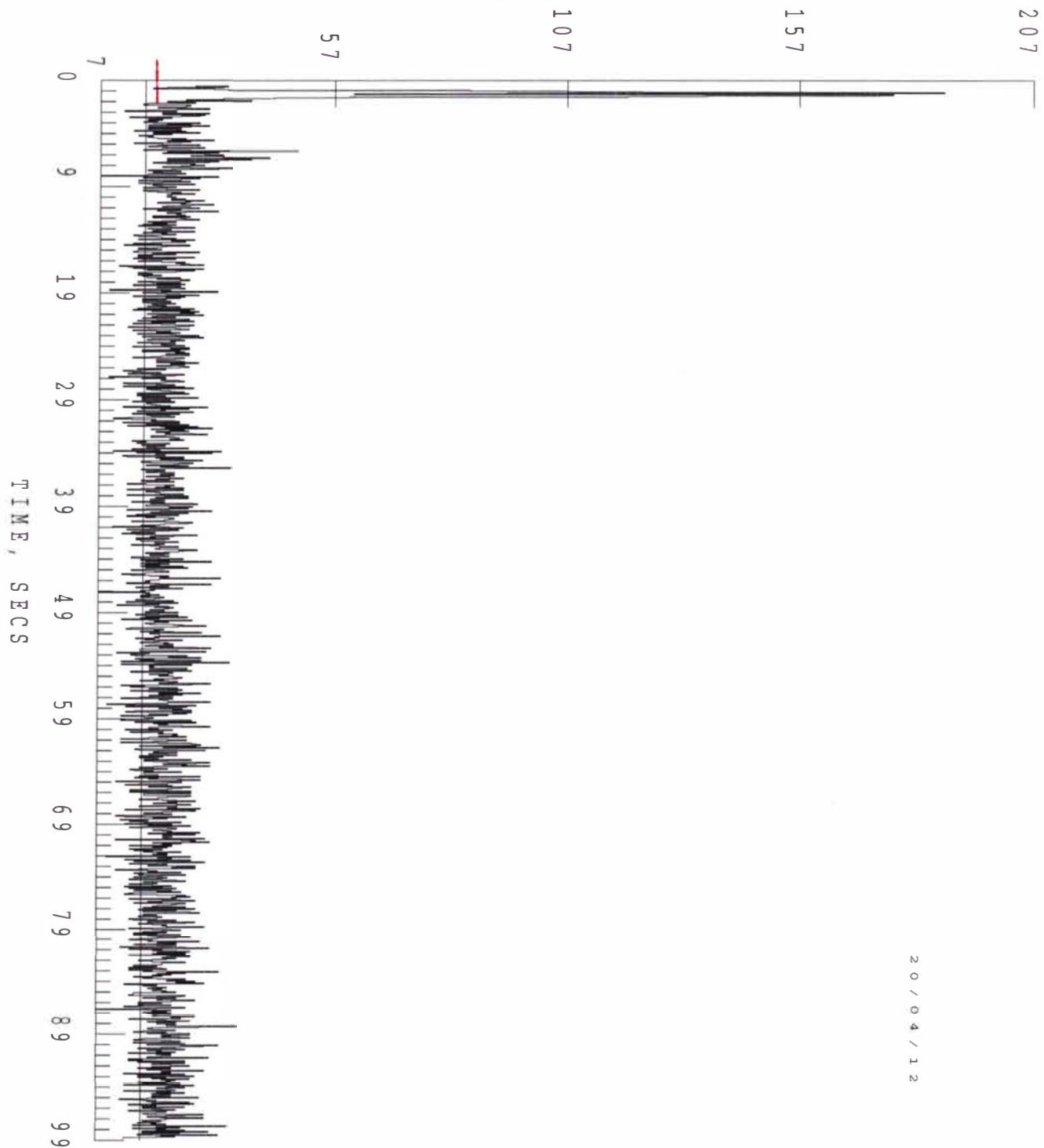
20/04/12

26778.304

B

50 - 200 keV

COUNTS/0.064 S



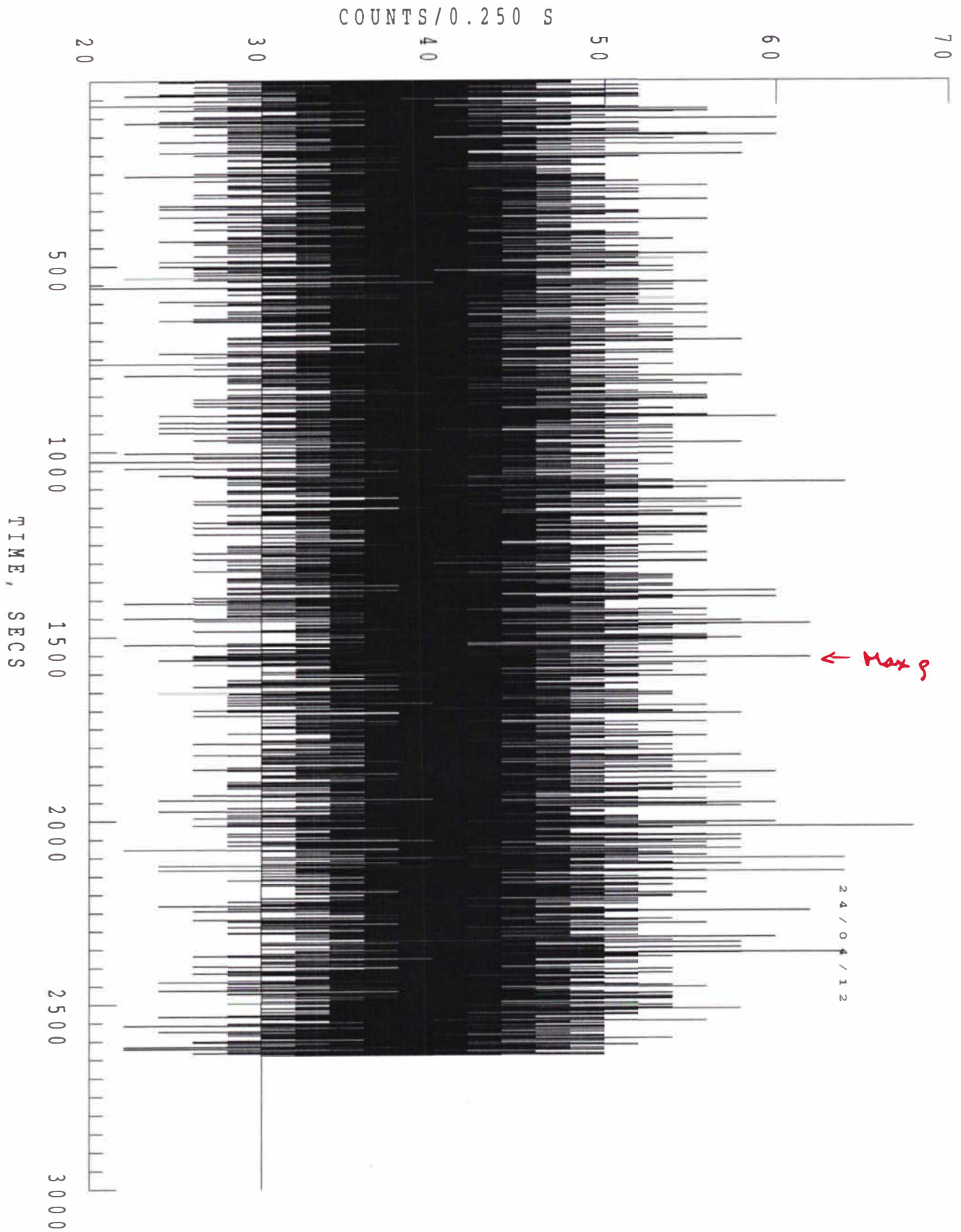
MS01

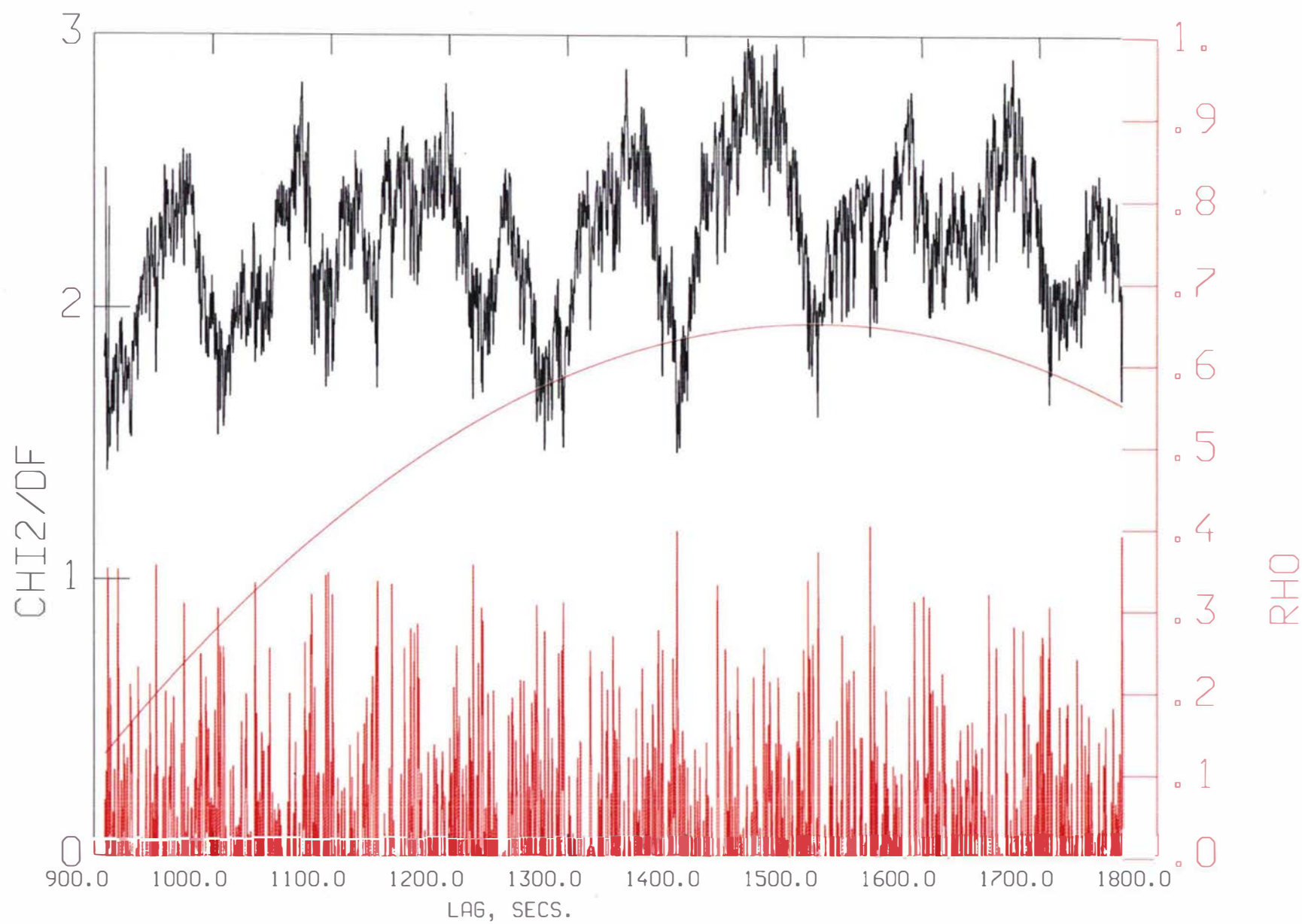
20/04/12

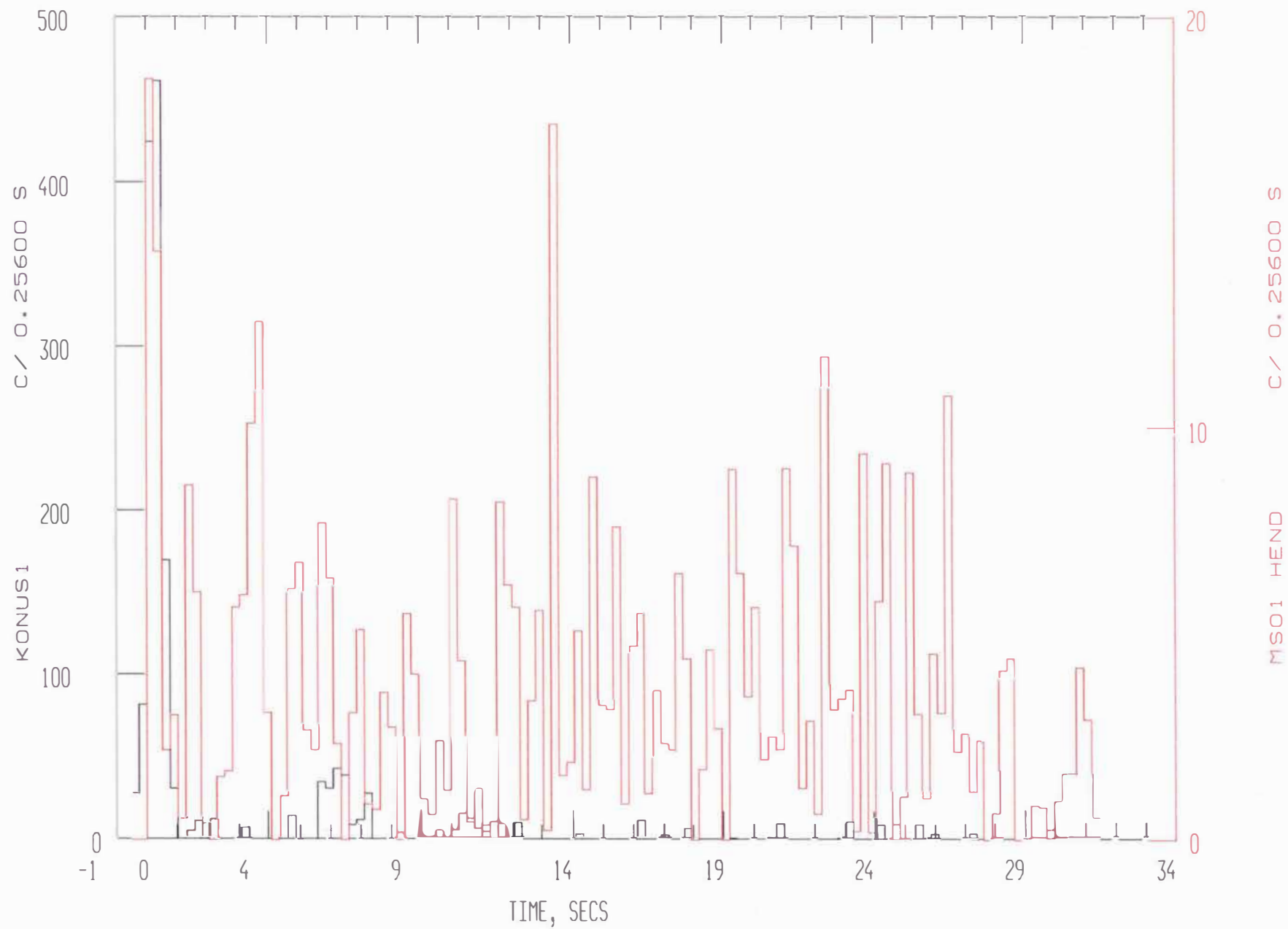
25439.048

B

50 - 3000 keV







SUZAKU

20/04/12

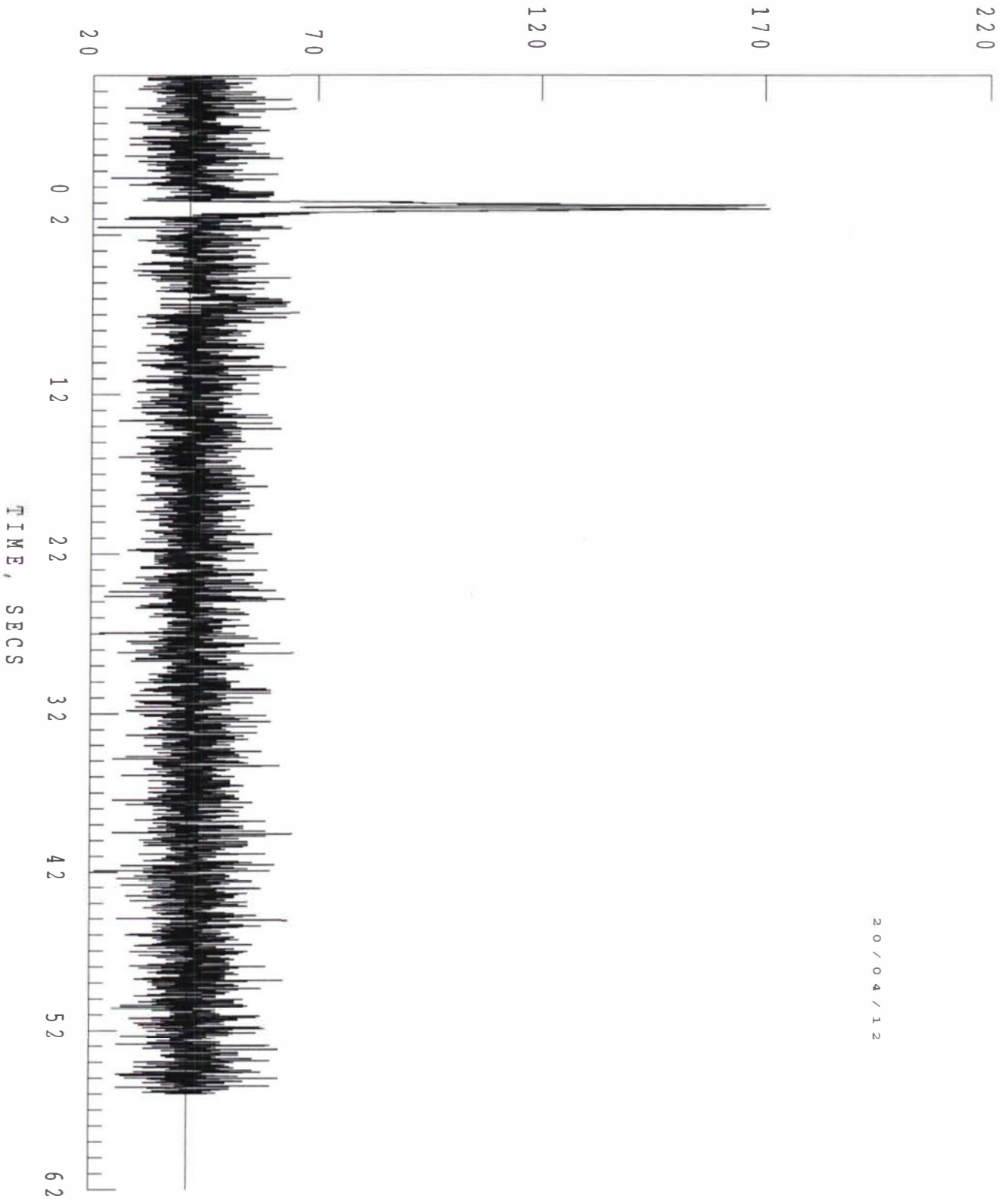
26776.097

07:26:16

B

50 - 240 keV

COUNTS/0.016 S



Subject: Suzaku/WAM TRN AUTOMATIC SEARCH: ae20120419_2146_2147_hxd_wam.uff

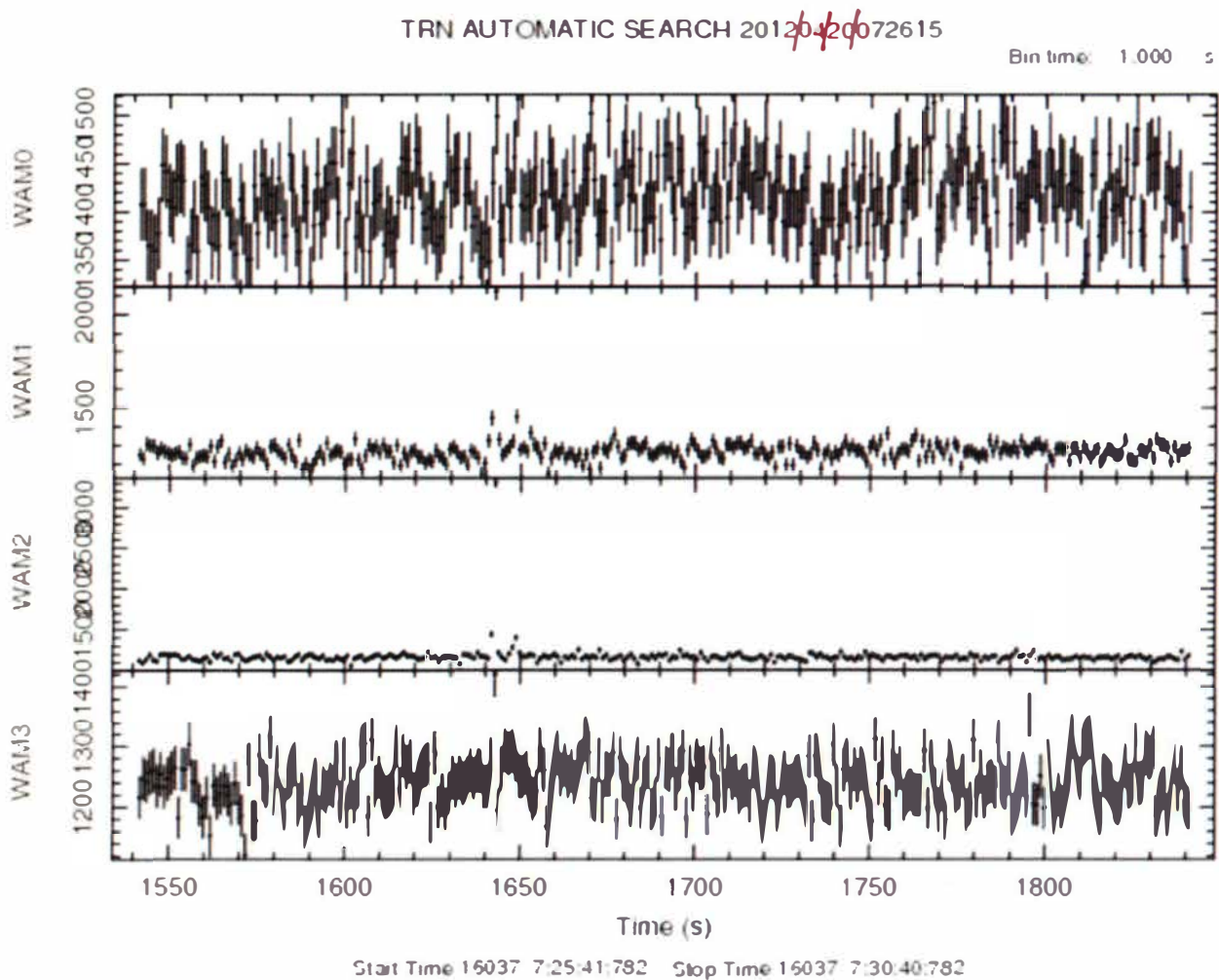
From: aetouban@astro.isas.jaxa.jp (Astro-E2 USC Duty Scientist)

Date: 4/20/2012 3:04 PM

To: hxd-grb@astro.isas.jaxa.jp, khurley@ssl.berkeley.edu, val@mail.ioffe.ru

2012-04-20 07:26:15 3.8822197709833091e+08 5.9

2012-04-20 11:43:17 3.8823739909444439e+08 5.1

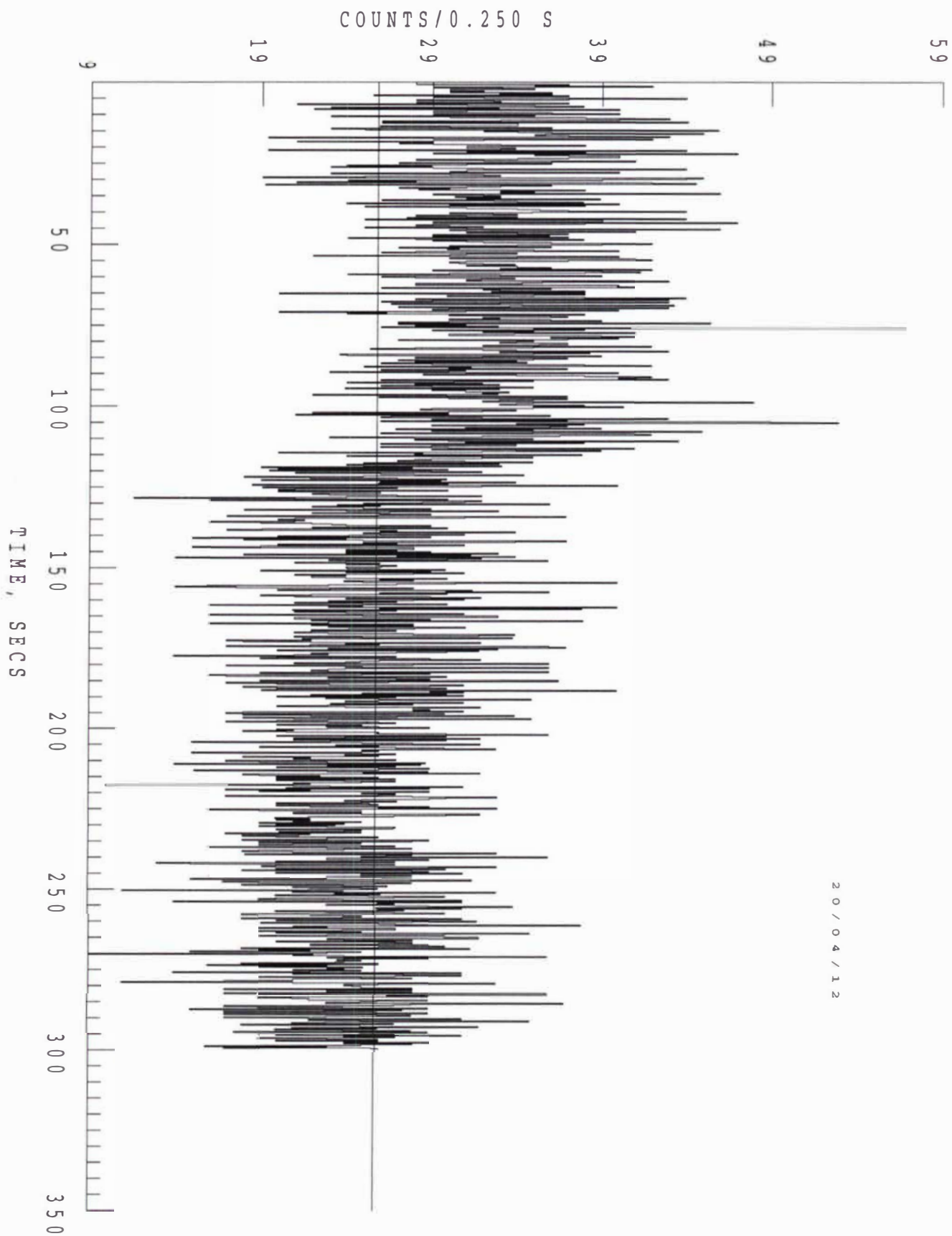


HESSI

20/04/12 26626.000 (SUZAKU_20120420_26776)

3

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 120420_0726

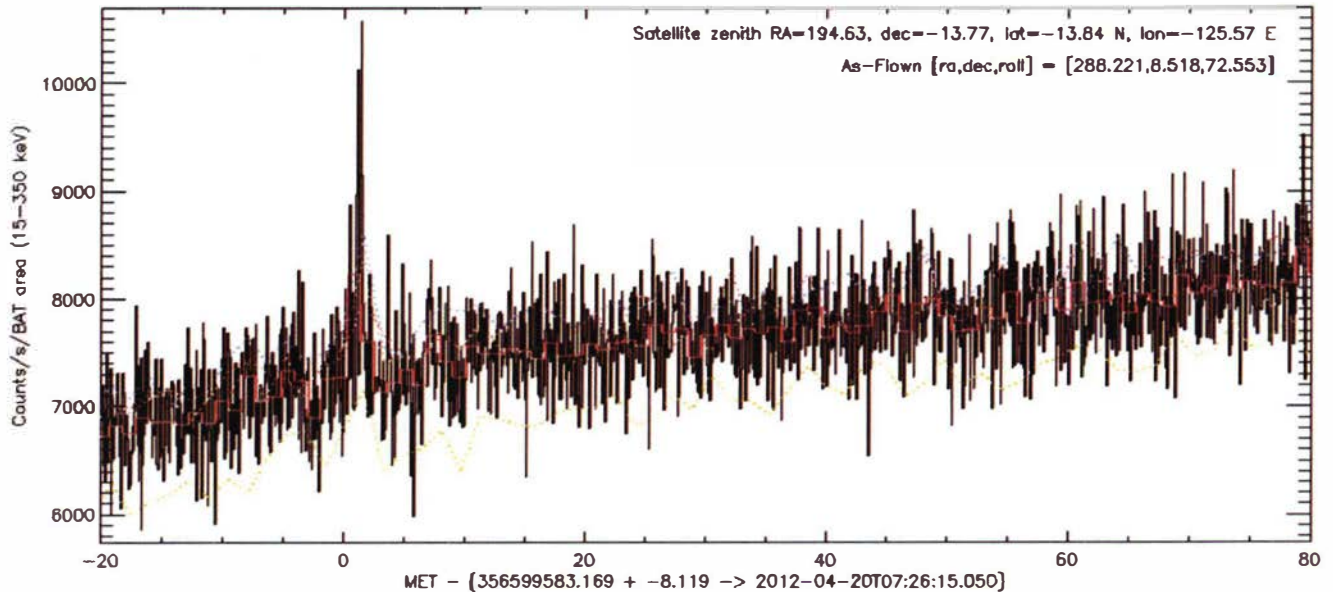
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 9:01 AM

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/120420_0726.png



```
% /usr/local/bin/swinfo -o 356599583.169
Time(MET + UTC -> UT):      356599583.169 + -8.119 -> 2012-04-20T07:26:15.050
Swift Zenith(RA,dec):       194.63, -13.77
Swift Location(lon,lat,alt): -125.57 E, -13.84 N, 581 km
Obs Sequence Number:        00044820001
Obs Target Name:            swift_gal_survey_2597
Obs Date and Times:         2012-04-20 07:23:53 - 07:34:48
Obs Pointing(ra,dec,roll):  288.221, 8.518, 72.55
```

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

Attachments:

/tmp/120420_0726.png	19.0 KB
/tmp/120420_0726_bat64ms_ipn	87.1 KB

Subject: [Ipn] BAT lightcurve for trigger at 120420_0933

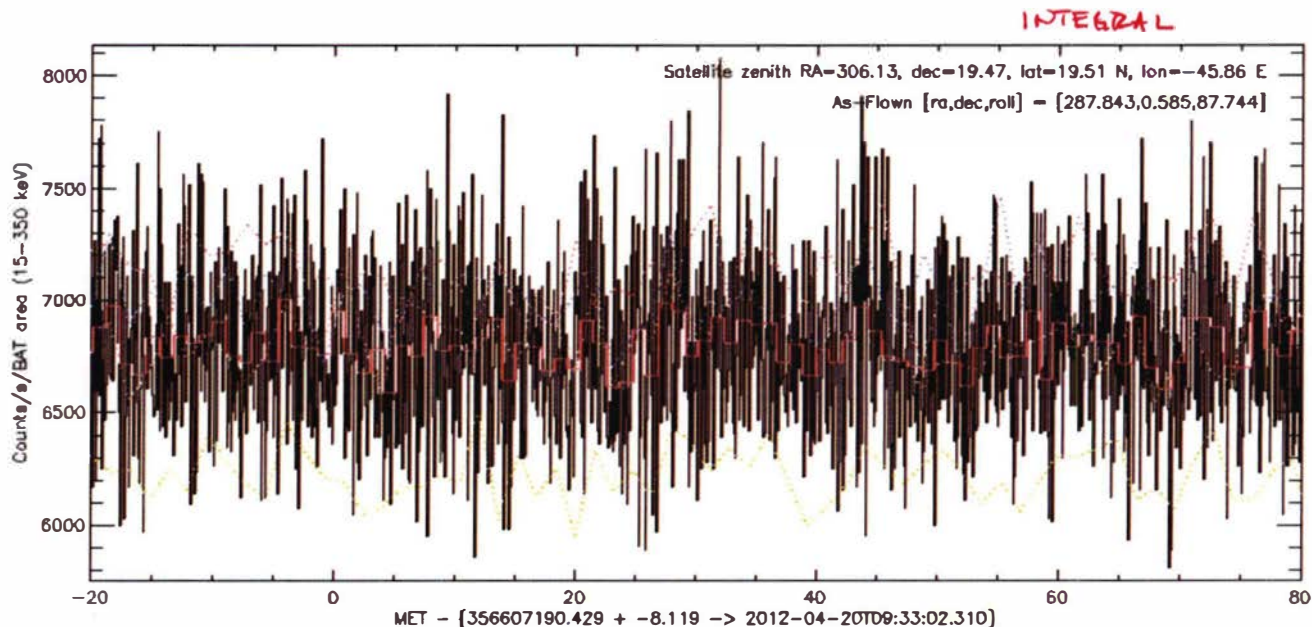
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 9:01 AM

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/120420_0933.png



```
% /usr/local/bin/swinfo -o 356607190.429
Time(MET + UTC -> UT):      356607190.429 + -8.119 -> 2012-04-20T09:33:02.310
Swift Zenith(RA,dec):       306.13, 19.47
Swift Location(lon,lat,alt): -45.86 E, 19.51 N, 570 km
Obs Sequence Number:        00031766046
Obs Target Name:            Aql X-1
Obs Date and Times:         2012-04-20   09:10:53 - 09:40:51
Obs Pointing(ra,dec,roll):  287.843, 0.585, 87.74
```

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

Attachments:

/tmp/120420_0933_bat64ms_ipn	87.1 KB
/tmp/120420_0933.png	24.1 KB

Subject: [Ipn] BAT lightcurve for trigger at 120420_1047

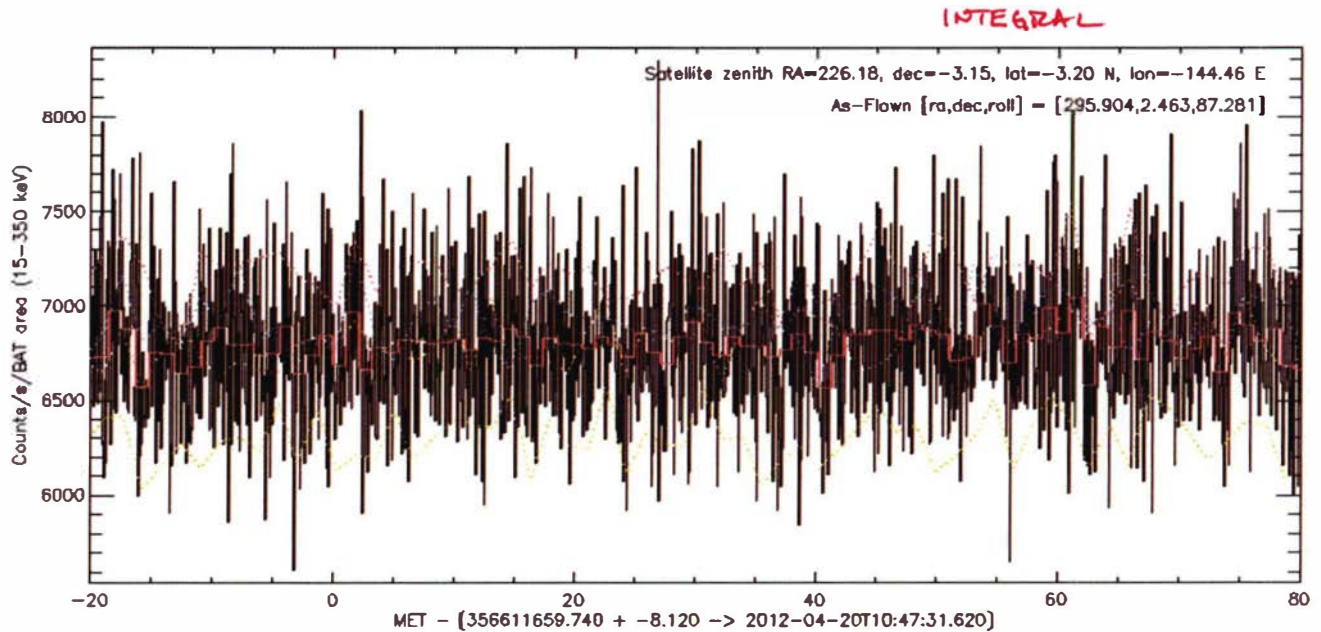
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 9:02 AM

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/120420_1047.png



```
% /usr/local/bin/swinfo -o 356611659.740
Time(MET + UTCF -> UT): 356611659.740 + -8.120 -> 2012-04-20T10:47:31.620
Swift Zenith(RA,dec): 226.18, -3.15
Swift Location(lon,lat,alt): -144.46 E, -3.20 N, 575 km
Obs Sequence Number: 00032437001
Obs Target Name: Swift J1943.4+0228
Obs Date and Times: 2012-04-20 10:44:53 - 11:14:51
Obs Pointing(ra,dec,roll): 295.904, 2.463, 87.28
```

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

Attachments:

/tmp/120420_1047_bat64ms_ipn	87.1 KB
/tmp/120420_1047.png	23.2 KB

Subject: [Ipn] BAT lightcurve for trigger at 120420_1058

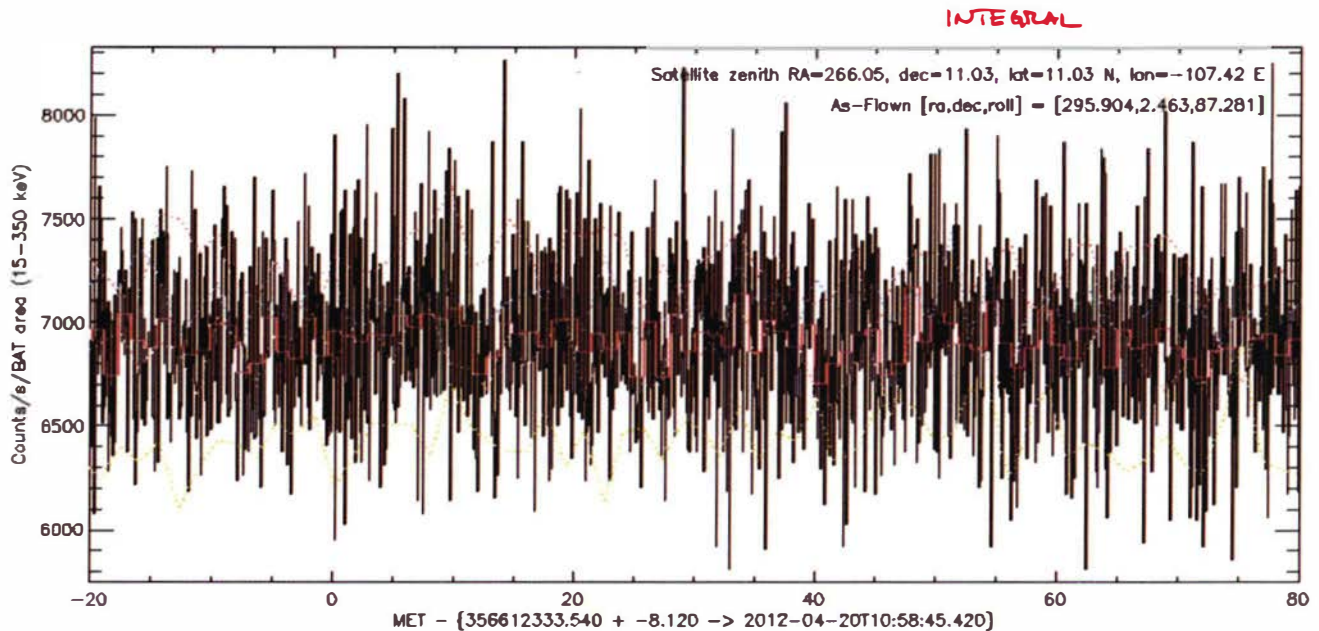
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 9:02 AM

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/120420_1058.png



```
% /usr/local/bin/swinfo -o 356612333.540
Time(MET + UTC -> UT):      356612333.540 + -8.120 -> 2012-04-20T10:58:45.420
Swift Zenith(RA,dec):       266.05, 11.03
Swift Location(lon,lat,alt): -107.42 E, 11.03 N, 570 km
Obs Sequence Number:        00032437001
Obs Target Name:             Swift J1943.4+0228
Obs Date and Times:          2012-04-20 10:44:53 - 11:14:51
Obs Pointing(ra,dec,roll):   295.904, 2.463, 87.28
```

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

Attachments:

/tmp/120420_1058_bat64ms_ipn	87.0 KB
/tmp/120420_1058.png	24.3 KB

Subject: [Ipn] BAT lightcurve for trigger at 120420_1127

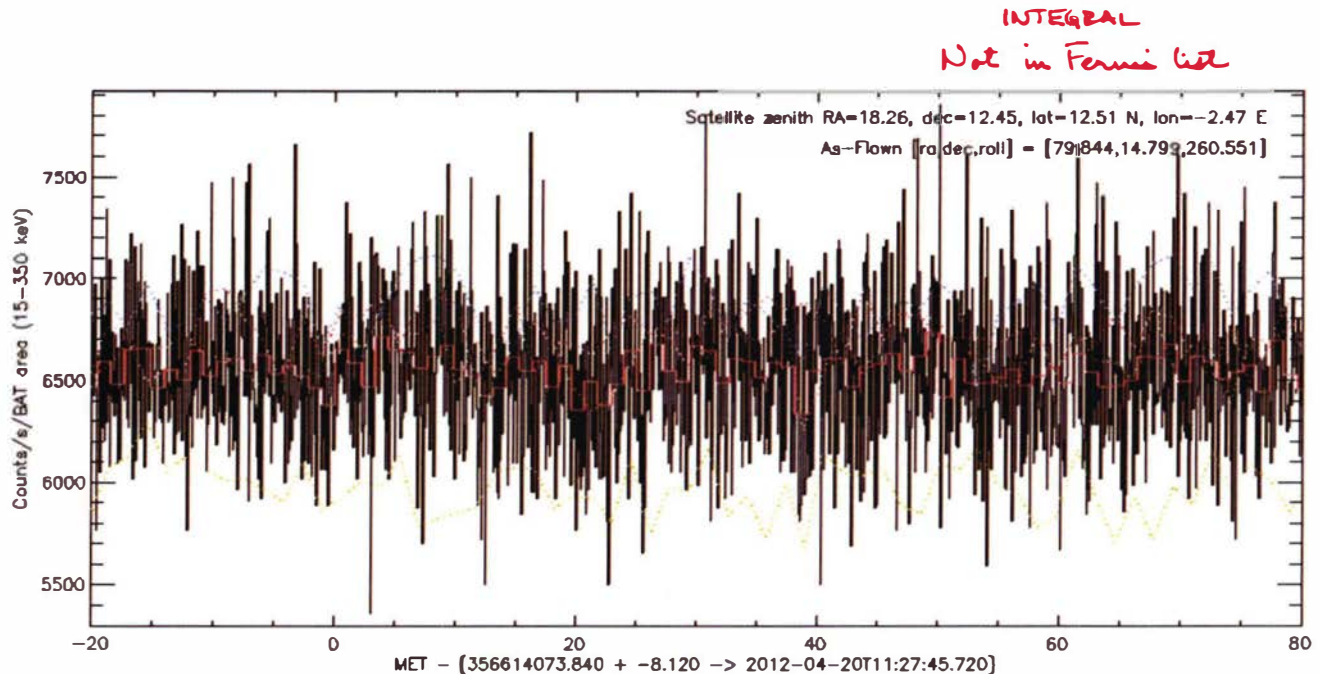
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 9:02 AM

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/120420_1127.png



```
% /usr/local/bin/swinfo -o 356614073.840
Time(MET + UTCF -> UT): 356614073.840 + -8.120 -> 2012-04-20T11:27:45.720
Swift Zenith(RA,dec): 18.26, 12.45
Swift Location(lon,lat,alt): -2.47 E, 12.51 N, 581 km
Obs Sequence Number: 00045856001
Obs Target Name: SA 121
Obs Date and Times: 2012-04-20 11:14:53 - 11:38:52
Obs Pointing(ra,dec,roll): 79.844, 14.799, 260.55
```

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

Attachments:

/tmp/120420_1127_bat64ms_ipn	87.0 KB
/tmp/120420_1127.png	22.3 KB

Subject: [Ipn] BAT lightcurve for trigger at 120420_1219

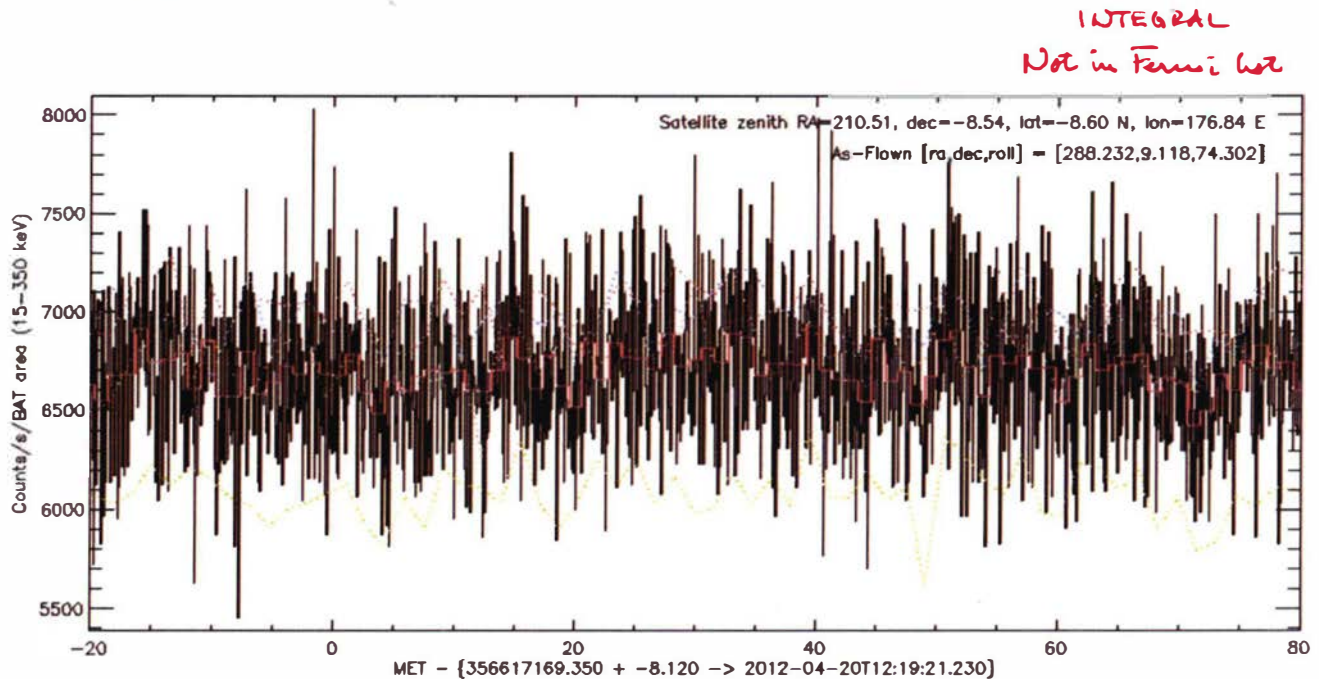
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 9:02 AM

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/120420_1219.png



```
% /usr/local/bin/swinfo -o 356617169.350
Time(MET + UTC -> UT): 356617169.350 + -8.120 -> 2012-04-20T12:19:21.230
Swift Zenith(RA,dec): 210.51, -8.54
Swift Location(lon,lat,alt): 176.84 E, -8.60 N, 578 km
Obs Sequence Number: 00044833001
Obs Target Name: swift_gal_survey_2610
Obs Date and Times: 2012-04-20 12:16:53 - 12:21:51
Obs Pointing(ra,dec,roll): 288.232, 9.118, 74.30
```

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

Attachments:

/tmp/120420_1219.png	22.7 KB
/tmp/120420_1219_bat64ms_ipn	87.1 KB

Subject: [Ipn] BAT lightcurve for trigger at 120420_1235

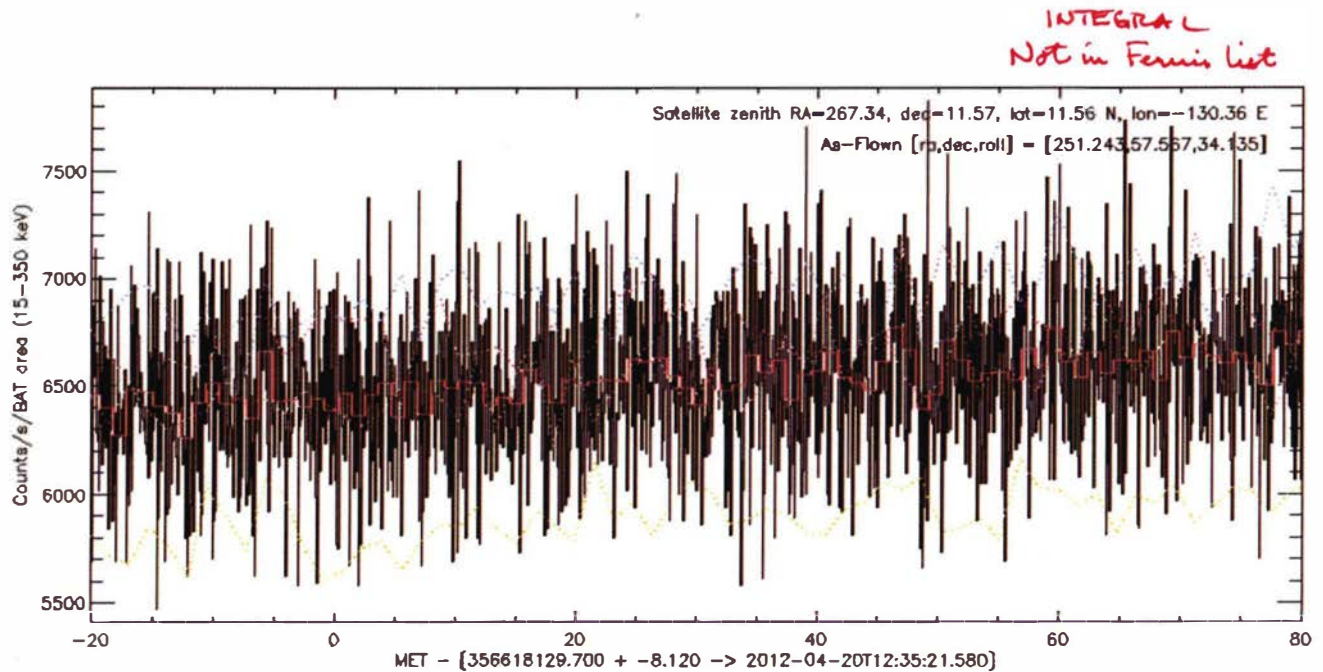
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 9:33 AM

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/120420_1235.png



```
% /usr/local/bin/swinfo -o 356618129.700
Time(MET + UTC -> UT): 356618129.700 + -8.120 -> 2012-04-20T12:35:21.580
Swift Zenith(RA,dec): 267.34, 11.57
Swift Location(lon,lat,alt): -130.36 E, 11.56 N, 570 km
Obs Sequence Number: 00032200133
Obs Target Name: Swift J164449.3+573451
Obs Date and Times: 2012-04-20 12:21:53 - 12:40:52
Obs Pointing(ra,dec,roll): 251.243, 57.567, 34.13
```

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

Attachments:

/tmp/120420_1235_bat64ms_ipn	87.0 KB
/tmp/120420_1235.png	23.5 KB

Subject: [Ipn] BAT lightcurve for trigger at 120420_1302

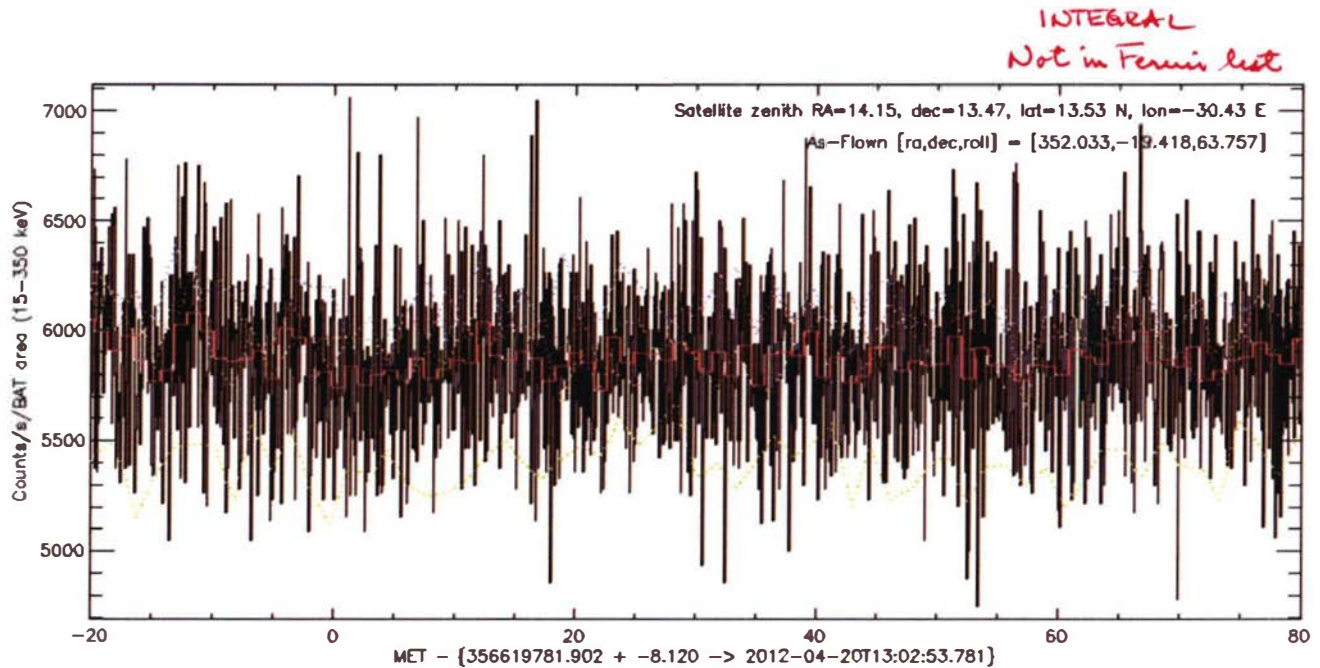
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 9:33 AM

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/120420_1302.png



```
% /usr/local/bin/swinfo -o 356619781.901
Time(MET + UTCF -> UT): 356619781.902 + -8.120 -> 2012-04-20T13:02:53.781
Swift Zenith(RA,dec): 14.15, 13.47
Swift Location(lon,lat,alt): -30.43 E, 13.53 N, 580 km
Obs Sequence Number: 00039524002
Obs Target Name: CRATES J2327-1924
Obs Date and Times: 2012-04-20 12:40:53 - 13:10:47
Obs Pointing(ra,dec,roll): 352.033, -19.418, 63.76
```

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

Attachments:

/tmp/120420_1302.png	23.2 KB
/tmp/120420_1302_bat64ms_ipn	87.1 KB

Subject: [lpn] BAT lightcurve for trigger at 120420_1908

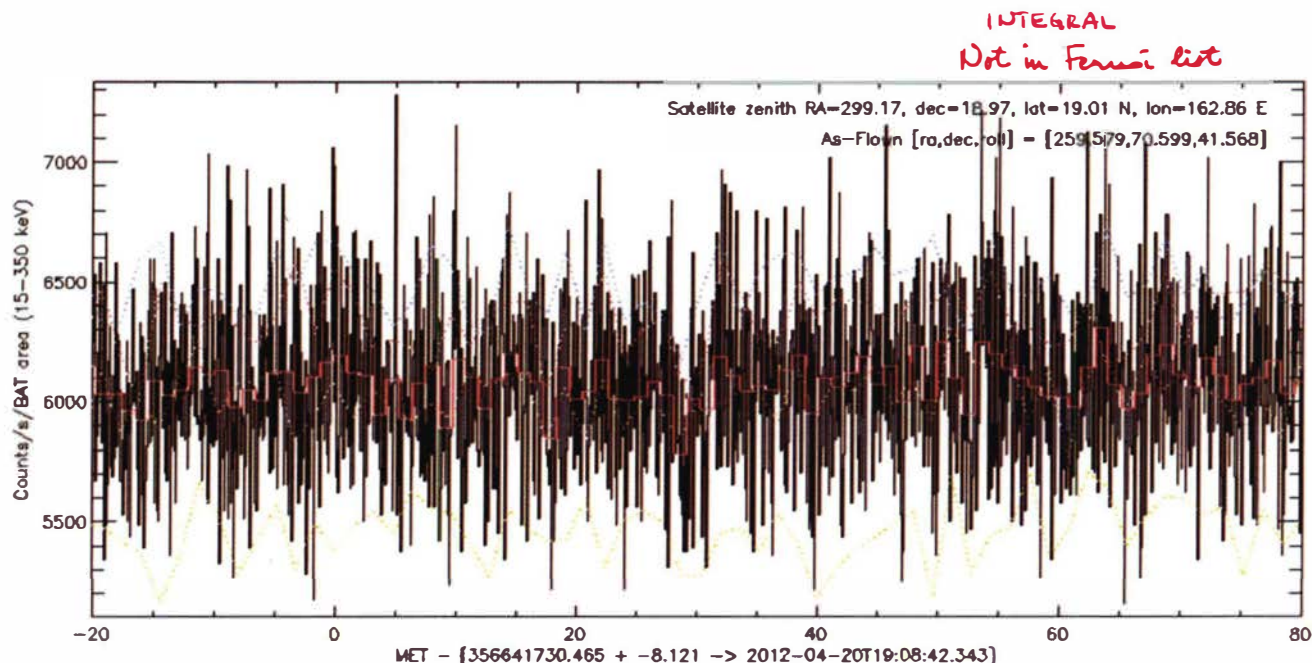
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 3:32 PM

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/120420_1908.png



```
% /usr/local/bin/swinfo -o 356641730.464
Time(MET + UTC -> UT):      356641730.465 + -8.121 -> 2012-04-20T19:08:42.343
Swift Zenith(RA,dec):       299.17, 18.97
Swift Location(lon,lat,alt): 162.86 E, 19.01 N, 570 km
Obs Sequence Number:        00048115009
Obs Target Name:            NEP 1330
Obs Date and Times:         2012-04-20 19:04:53 - 19:09:50
Obs Pointing(ra,dec,roll):  259.579, 70.599, 41.57
```

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

Attachments:

/tmp/120420_1908.png	24.7 KB
/tmp/120420_1908_bat64ms_ipn	87.0 KB

GLAST

20/04/12

74113.070

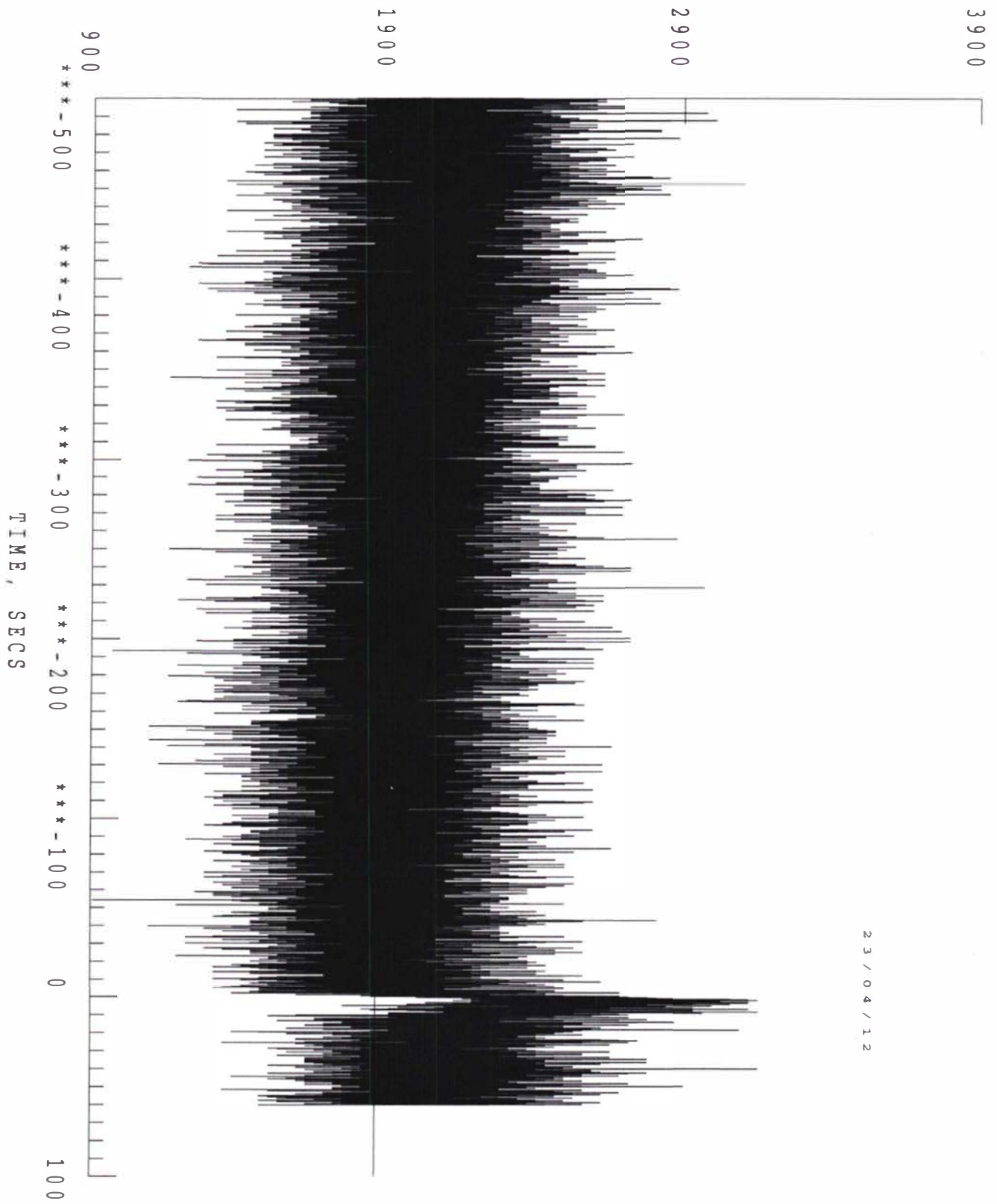
20:35:13

D

26 - 293 keV

109.26, 10.76, 1.11

COUNTS/0.032 S



23 / 04 / 12

D

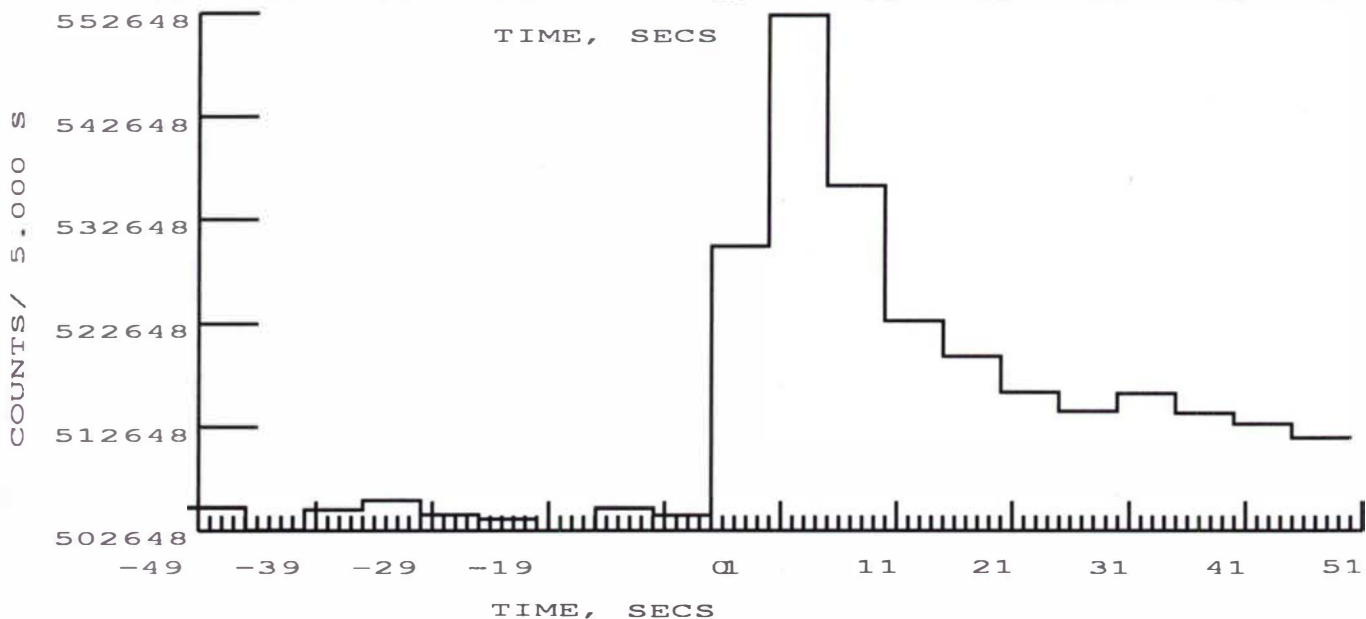
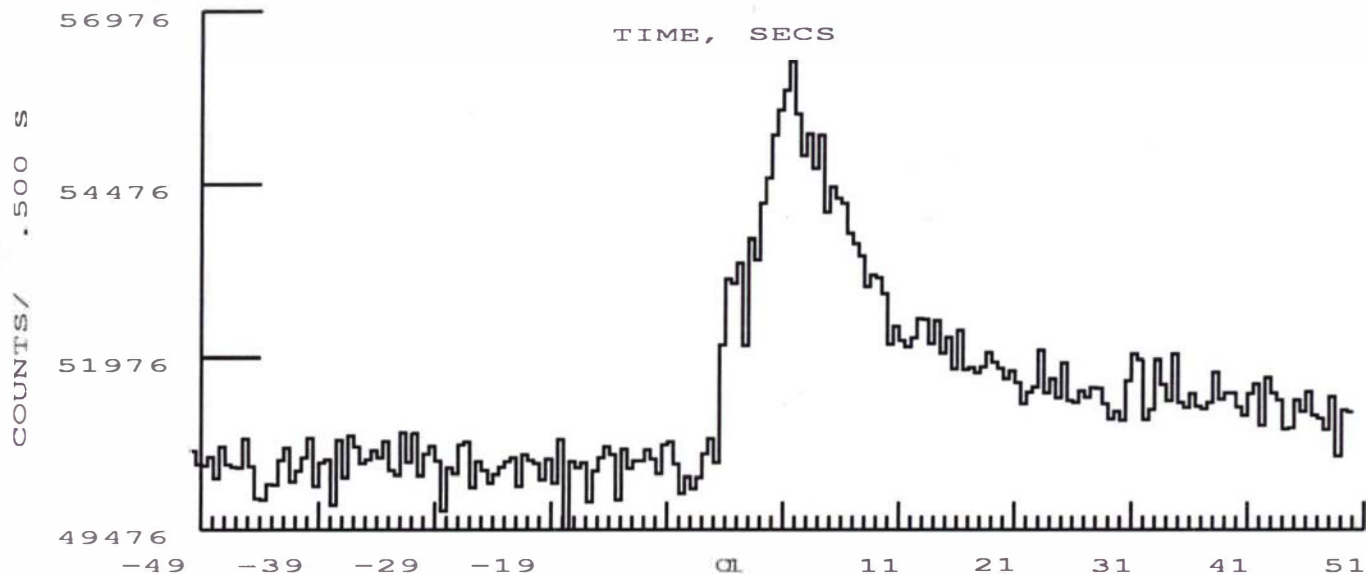
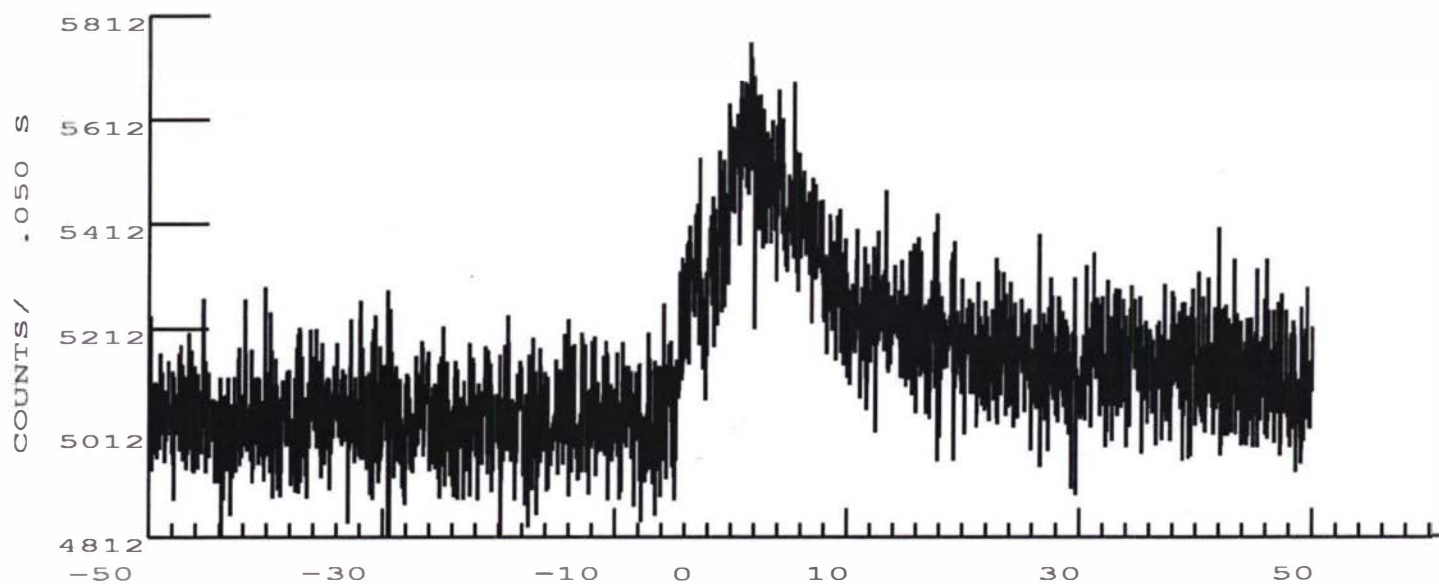
INTEGRAL

20/04/12

74113.000

20:35:13.0

22/01/14



MS01

20/04/12

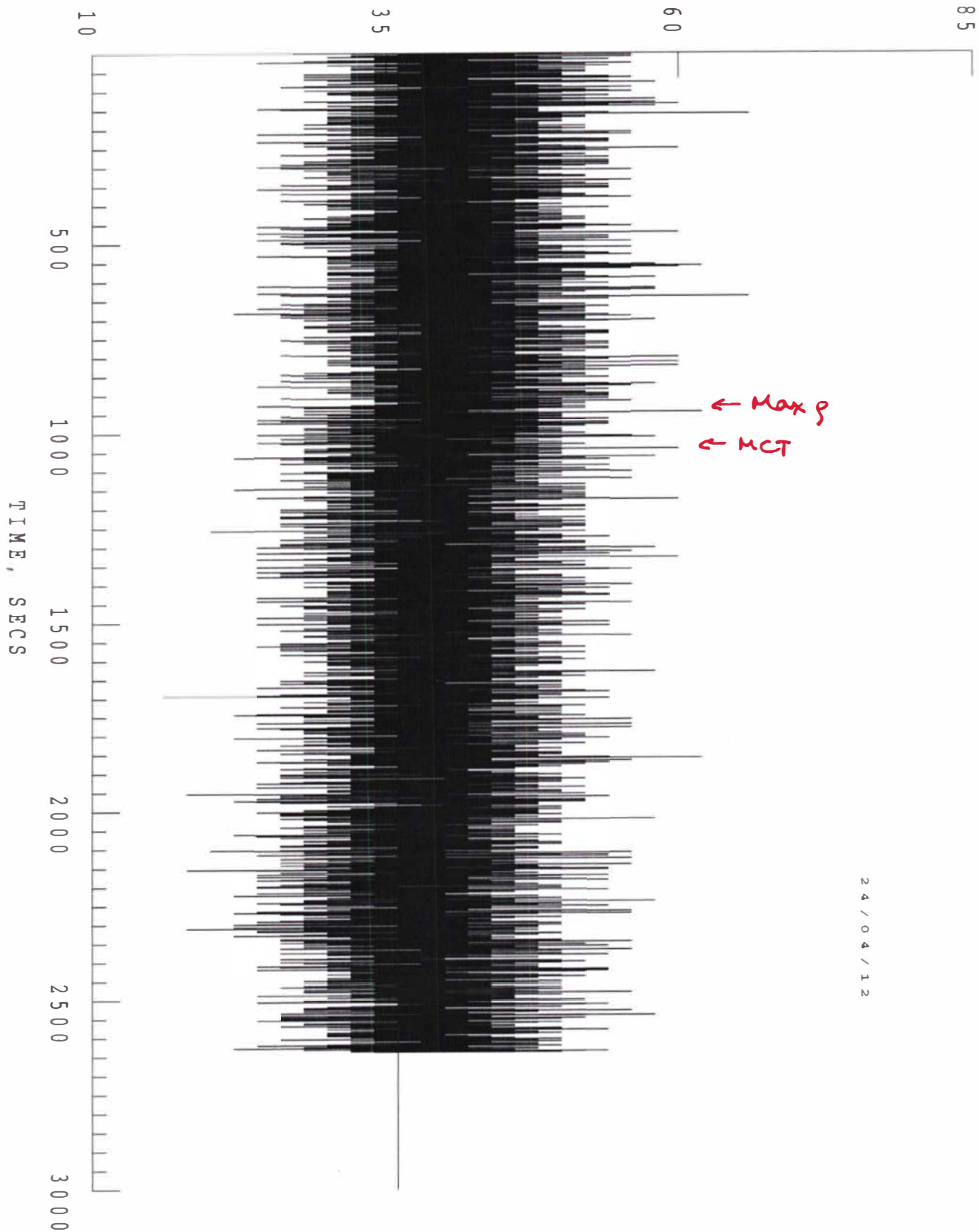
72778.248

50 - 3000 keV

$L_{\text{GRB}/O/M} = 33^\circ$

Occulted

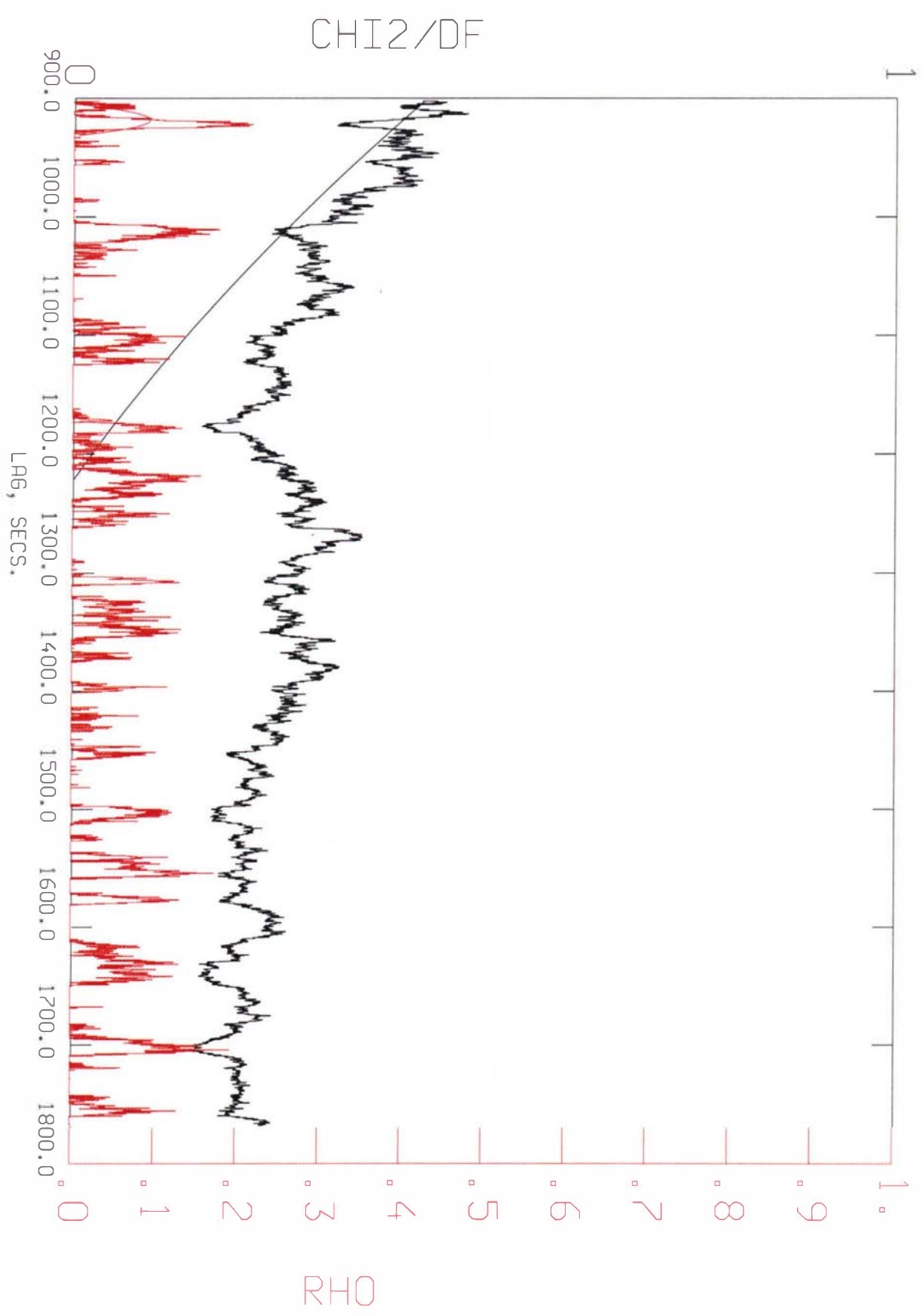
COUNTS/0.250 S



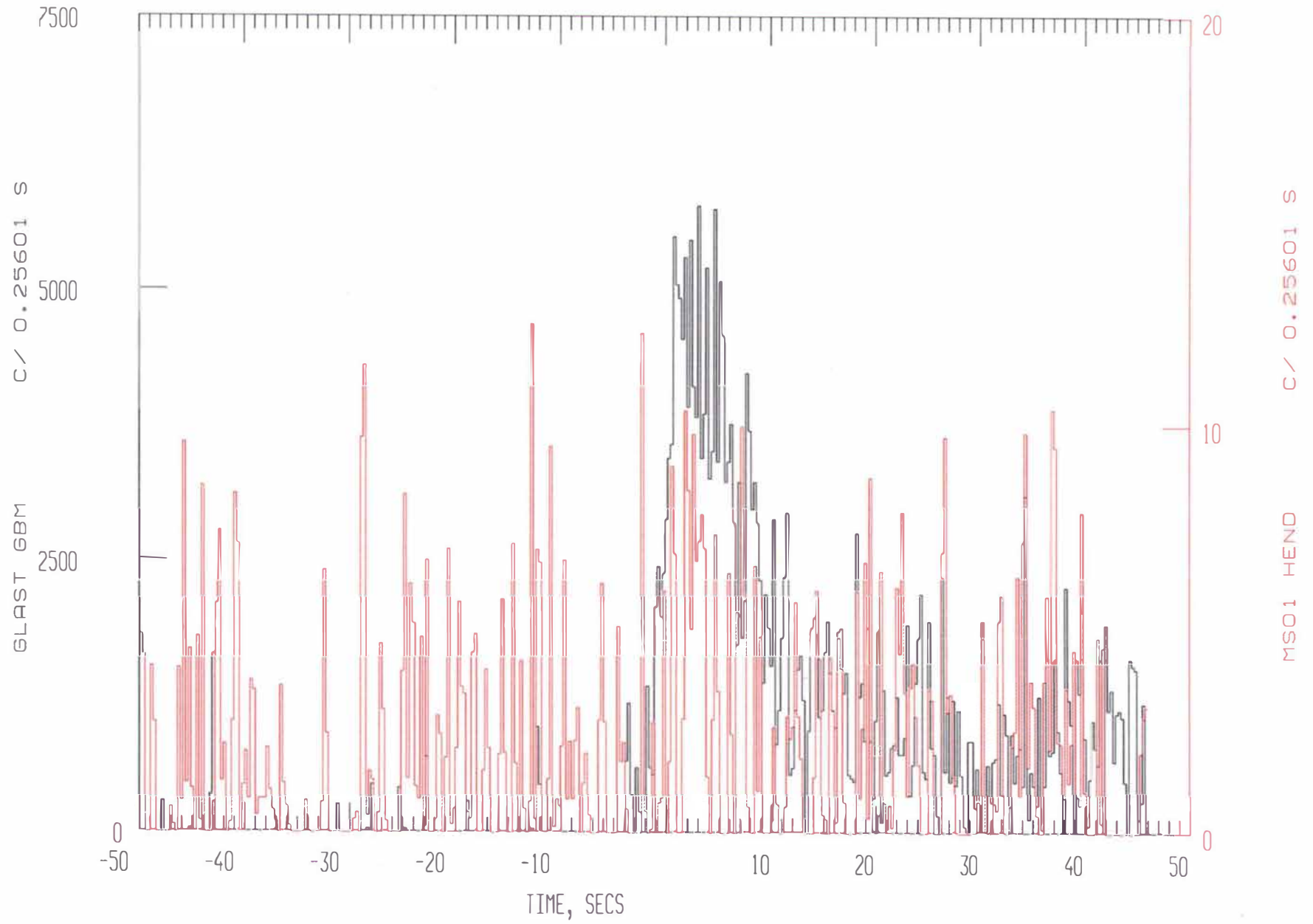
D

GLAST GBM -MS01 HEND CORRELATION 20/04/12 74113.070

18/ 7/12



A

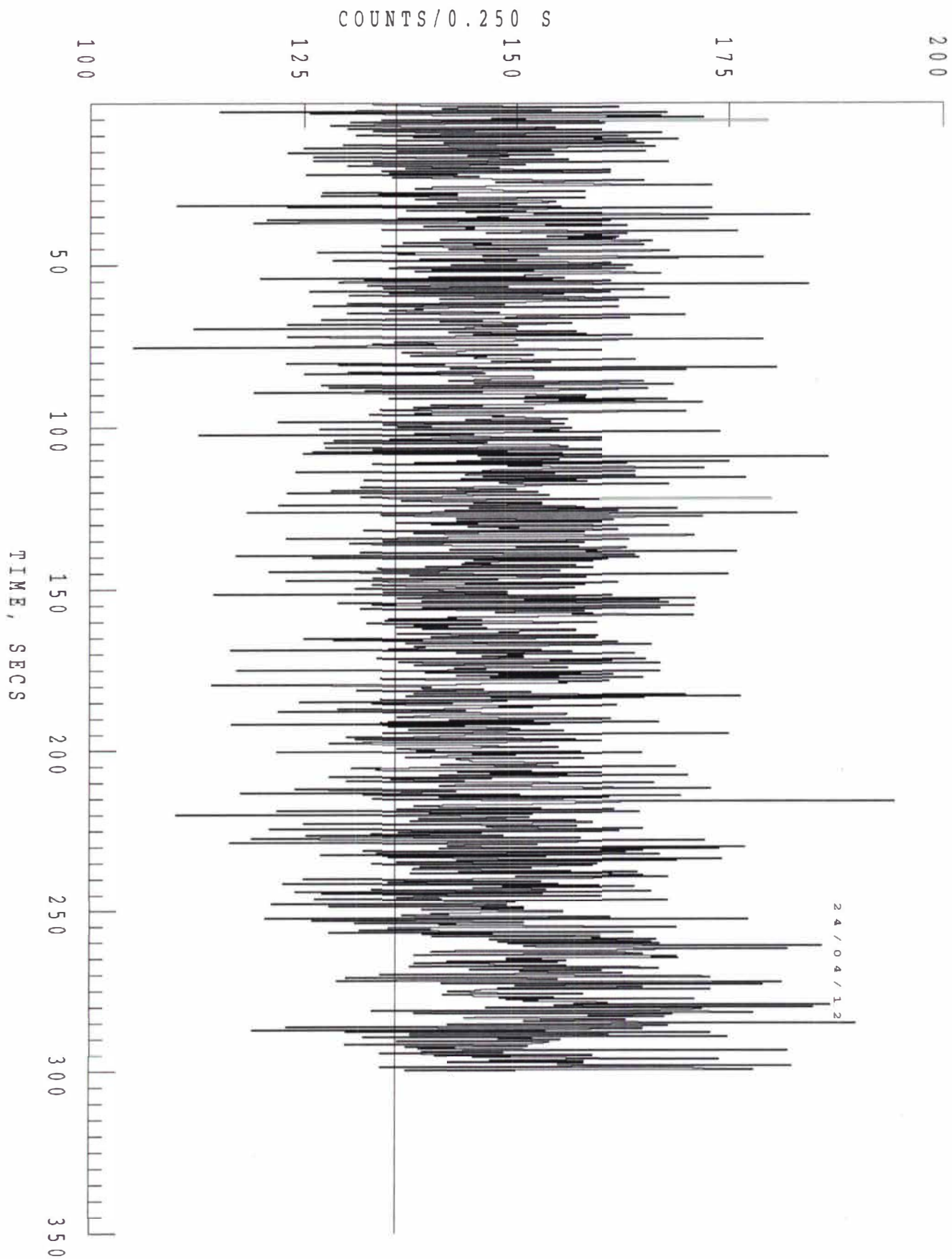


HESSI

20/04/12 73963.000 (GLAST_20120420_74113)

D

25- 150 keV



Subject: [lpr] BAT lightcurve for trigger at 120420_2035

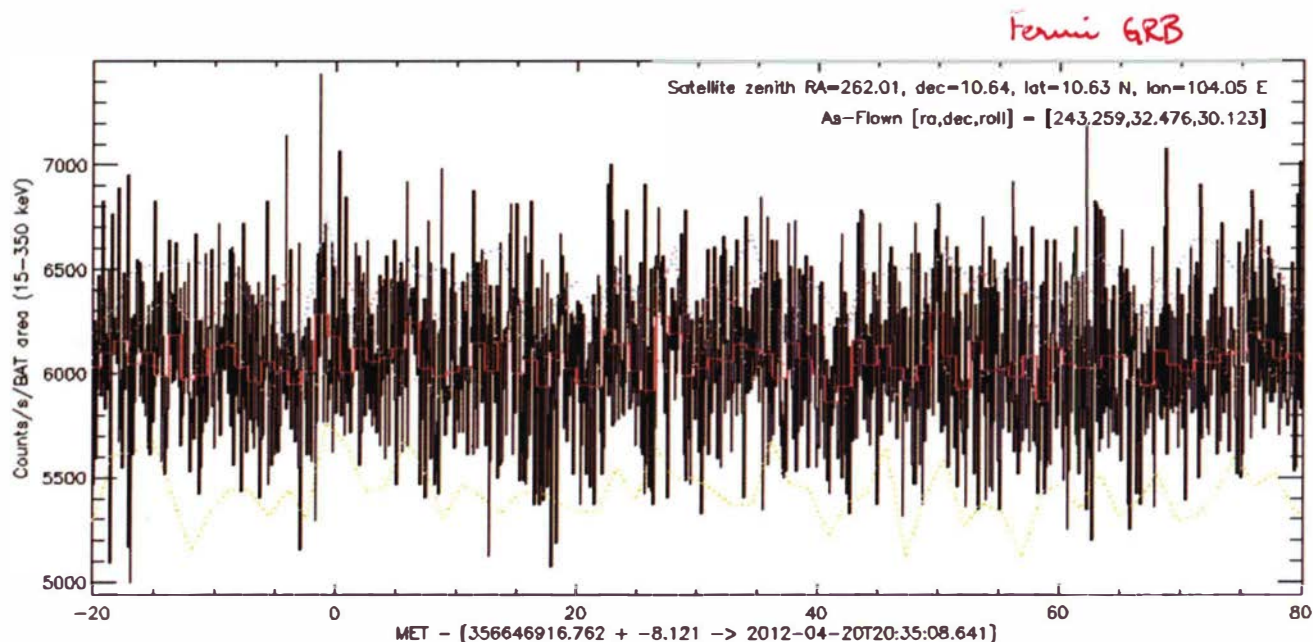
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 5:12 PM

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/120420_2035.png



```
% /usr/local/bin/swinfo -o 356646916.762
Time(MET + UTC -> UT): 356646916.762 + -8.121 -> 2012-04-20T20:35:08.641
Swift Zenith(RA,dec): 262.01, 10.64
Swift Location(lon,lat,alt): 104.05 E, 10.63 N, 570 km
Obs Sequence Number: 00032440001
Obs Target Name: N/A
Obs Date and Times: 2012-04-20 20:07:26 - 20:43:23
Obs Pointing(ra,dec,roll): 243.259, 32.476, 30.12
```

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

Attachments:

/tmp/120420_2035.png	22.7 KB
/tmp/120420_2035_bat64ms_ipn	87.1 KB

Subject: [lpn] BAT lightcurve for trigger at 120420_2337

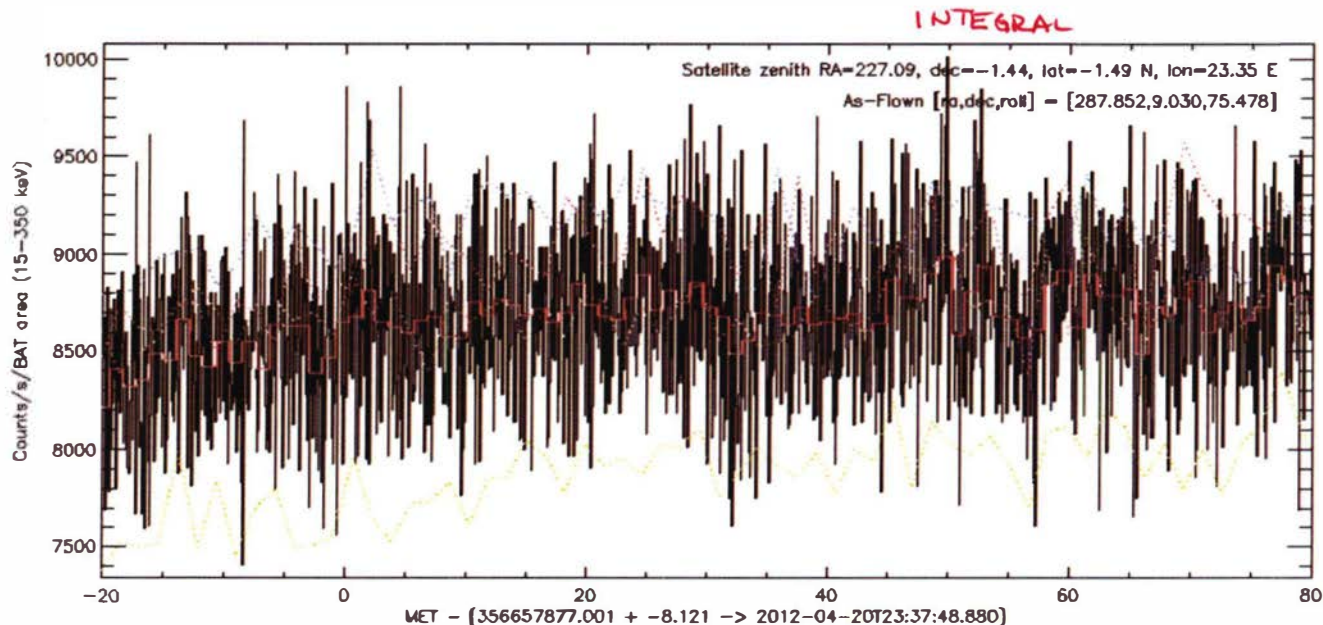
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/20/2012 7:44 PM

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/120420_2337.png



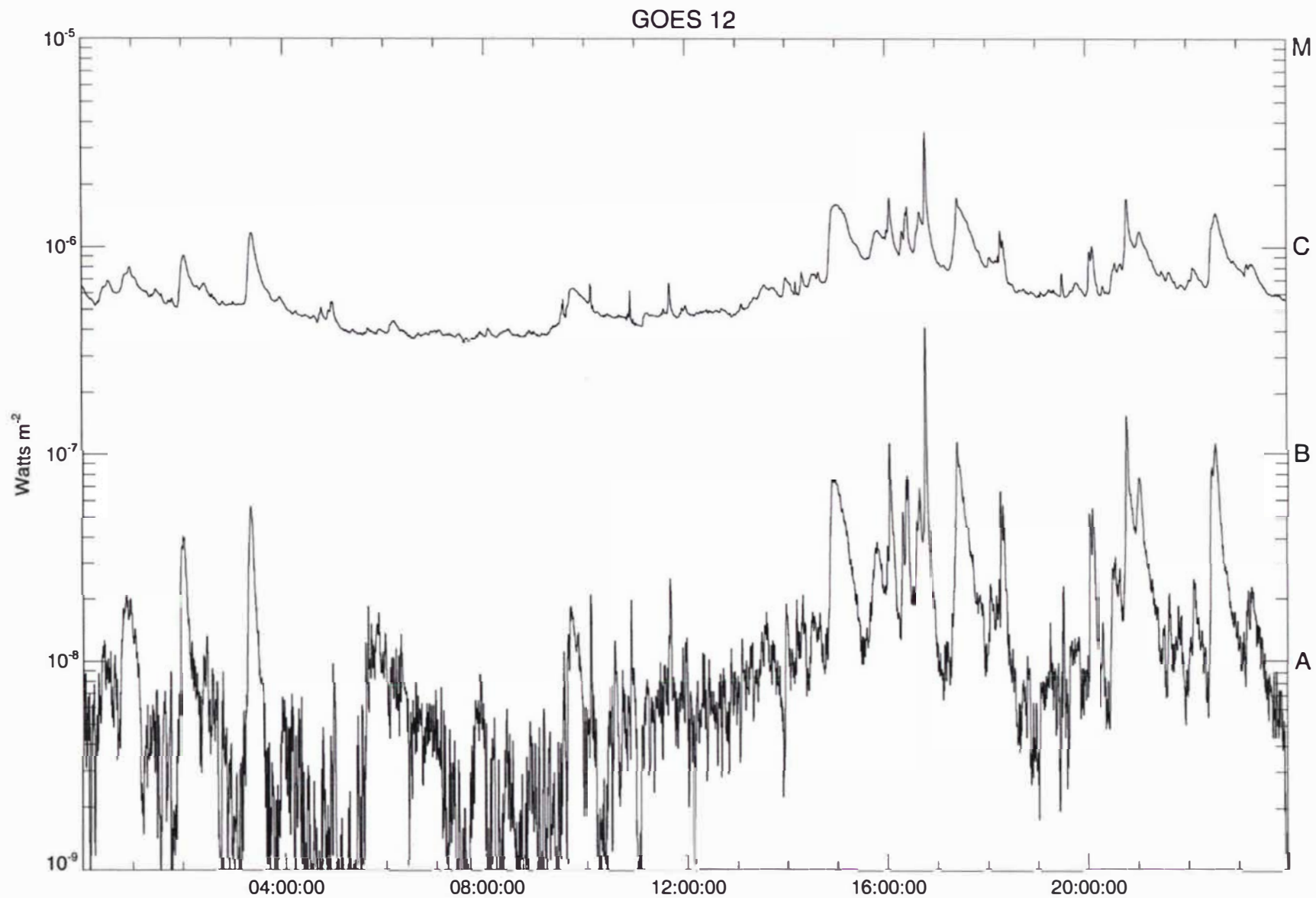
```
% /usr/local/bin/swinfo -o 356657877.001
Time(MET + UTC -> UT):      356657877.001 + -8.121 -> 2012-04-20T23:37:48.880
Swift Zenith(RA,dec):       227.09, -1.44
Swift Location(lon,lat,alt): 23.35 E, -1.49 N, 575 km
Obs Sequence Number:        00044825001
Obs Target Name:             swift_gal_survey_2602
Obs Date and Times:          2012-04-20 23:35:41 - 23:38:27
Obs Pointing(ra,dec,roll):   287.852, 9.030, 75.48
```

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

Attachments:

/tmp/120420_2337.png	23.8 KB
/tmp/120420_2337_bat64ms_ipn	87.1 KB



Data Start: 12/04/20, 0000:10

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 12/04/23, 0840

Sample average = 10

Subject: RE: MESSENGER data
From: "Goldsten, John" <John.Goldsten@jhuapl.edu>
Date: 4/23/2012 10:14 AM
To: Kevin Hurley <khurley@ssl.berkeley.edu>
CC: "Ensor, Susan L." <Susan.Ensor@jhuapl.edu>

Hi Kevin,

As far as I know, access to the EDR files via the SOC has not changed since we entered the extended mission phase, but perhaps Susan can comment. I have had no trouble getting into the SOC with the usual password.

Perhaps the problem is that the NS high voltage was disabled from approximately April 15-21 to accommodate the spacecraft engine burn to shorten the orbit about Mercury from 12 to 8 hr. This would explain why you wouldn't see any GAB records from DOY 108-111.

Regards,
John

-----Original Message-----

From: Kevin Hurley [<mailto:khurley@ssl.berkeley.edu>]
Sent: Monday, April 23, 2012 12:31 PM
To: Goldsten, John; khurley@ssl.berkeley.edu
Subject: MESSENGER data

Dear John,

I have not been able to get into the MESSENGER server for several days now. Has there been a password change?

Kevin

Subject: [lpr] BAT lightcurve for trigger at 120421_0628

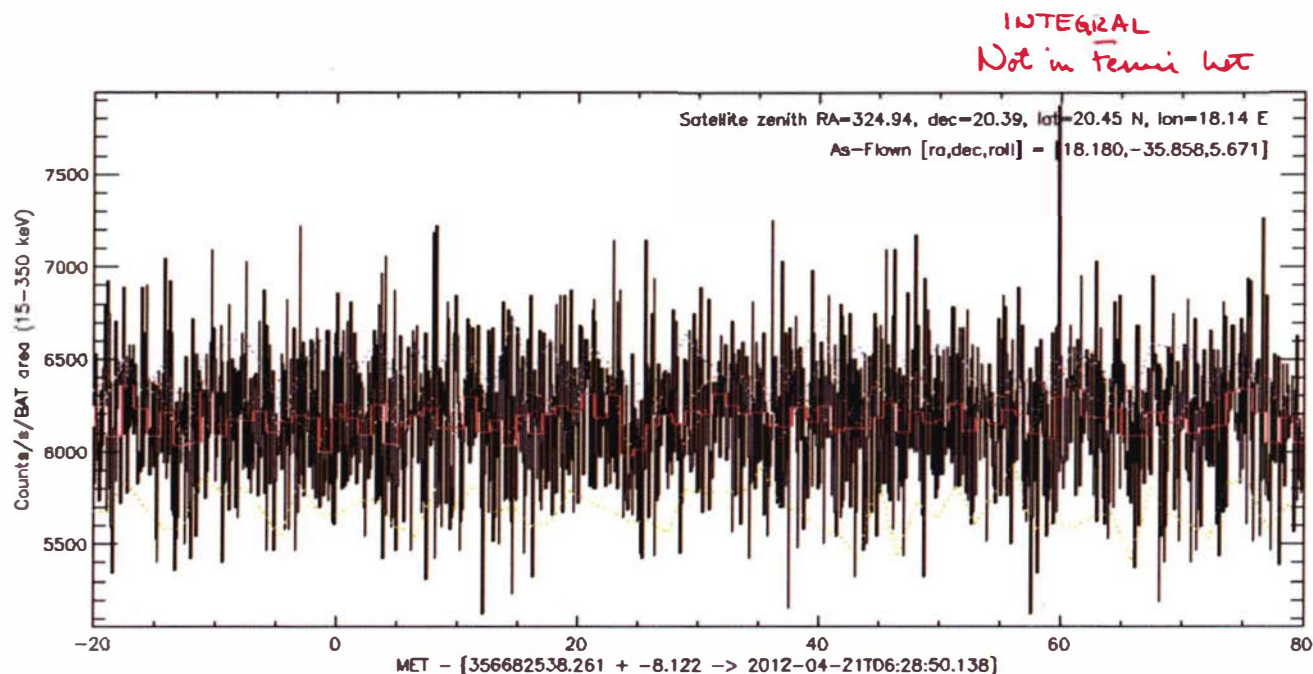
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/21/2012 5:20 AM

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/120421_0628.png



```
% /usr/local/bin/swinfo -o 356682538.260
Time(MET + UTC -> UT): 356682538.261 + -8.122 -> 2012-04-21T06:28:50.138
Swift Zenith(RA,dec): 324.94, 20.39
Swift Location(lon,lat,alt): 18.14 E, 20.45 N, 571 km
Obs Sequence Number: 00046403002
Obs Target Name: PMN J0112-3552
Obs Date and Times: 2012-04-21 06:23:53 - 06:53:48
Obs Pointing(ra,dec,roll): 18.180, -35.858, 5.67
```

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

Attachments:

/tmp/120421_0628.png	21.5 KB
/tmp/120421_0628_bat64ms_ipn	87.1 KB

From gncirc@capella2.gsfc.nasa.gov Fri May 4 10:50:56 2012
X-Barracuda-Envelope-From: gncirc@capella2.gsfc.nasa.gov
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.147
X-Barracuda-Apparent-Source-IP: 128.183.96.236
X-Barracuda-RBL-IP: 128.183.96.236
From: GCN Circulars <gncirc@capella2.gsfc.nasa.gov>
Subject: Fermi/GBM detection of a burst from the magnetar 1E 2259+5
To: khurley@ssl.berkeley.edu
Date: Fri, 4 May 2012 13:51:35 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-MIME-Autoconverted: from 8bit to quoted-printable by capella2.gsfc.nasa.gov id
X-Ucb-Scan-Signature: b9f7e58c22fe3c30409adeb2e090915585ddc4df
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='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

TITLE: GCN CIRCULAR
NUMBER: 13280
SUBJECT: Fermi/GBM detection of a burst from the magnetar 1E 2259+5
DATE: 12/05/04 17:51:15 GMT
FROM: Chryssa Kouveliotou at MSFC <chryssa.kouveliotou@nasa.gov>

S. Foley (UCD), C. Kouveliotou (NASA/MSFC), Y. Kaneko (Sabanci University) and Andrew Collazzi (NASA/ORAU) report on behalf of the Fermi/GBM Team:

á 27863
At 08:17:43.71 UT on 21 April 2012, the Fermi Gamma-Ray Burst Monitor triggered on a short, soft event very similar to an SGR burst (trigger 356689065/120421346).

*L GRB/O/M = 102°
Unocculted*

The on-ground calculated location is RA = 357.0, DEC = 40.0 (J2000 degrees, equivalent to 23h 48 m, 40d 00'), with an uncertainty of 12 degrees (radius, 1-sigma containment, statistical only; there is additionally 2 to 3 degrees). This location is consistent with 1E 2259+586, albeit with a large error radius.

á
The event had a duration of ~ 40 ms (20-100 keV) and was equally well fit either with an OTTB function of kT=85+-17 keV or with a single blackbody spectrum of kT=17+-1 keV. These results are preliminary.

á
Untriggered event searches between April 18-24, 2012 (+- 3 days around the trigger time) did not reveal any additional bursts at the same significance level from the same direction.

á
Given the recent report by Archibald et al. (ATel 4080, 2012) about the detection of a flux increase of 1E 2259+586 with Swift, we suggest that this magnetar source was indeed the origin of the GBM burst.

á
Further observations of the source in multiple wavelengths are encouraged.

Subject: [Ipn] BAT lightcurve for trigger at 120421_0817

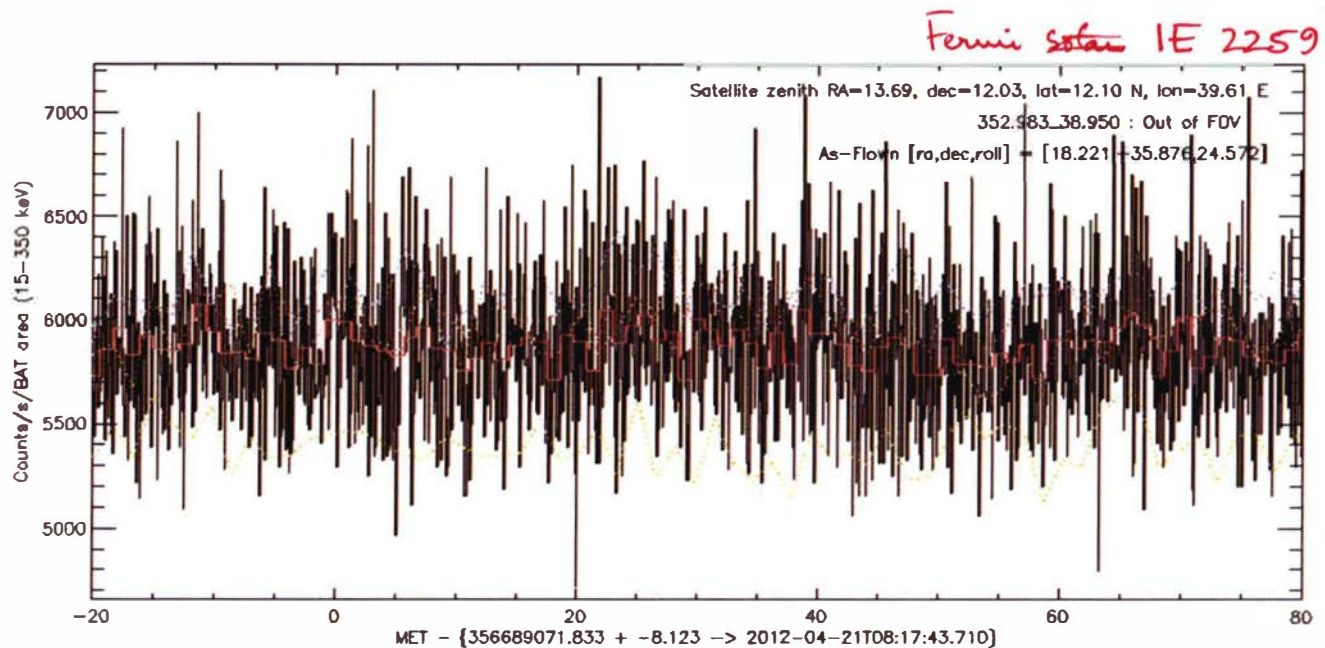
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/22/2012 3:45 AM

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/120421_0817.png



```
% /usr/local/bin/swinfo -o 356689071.833 -s 352.983_38.950
Time(MET + UTC -> UT): 356689071.833 + -8.123 -> 2012-04-21T08:17:43.710
Swift Zenith(RA,dec): 13.69, 12.03
Swift Location(lon,lat,alt): 39.61 E, 12.10 N, 580 km
Obs Sequence Number: 00046403002
Obs Target Name: PMN J0112-3552
Obs Date and Times: 2012-04-21 07:59:53 - 08:29:51
Obs Pointing(ra,dec,roll): 18.221, -35.876, 24.57
352.983_38.950_imageloc (boresight_dist, angle): (78, -134)
352.983_38.950_exposure (cm^2 cos adjusted): 0
352.983_38.950_altitude: 81 (up)
```

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

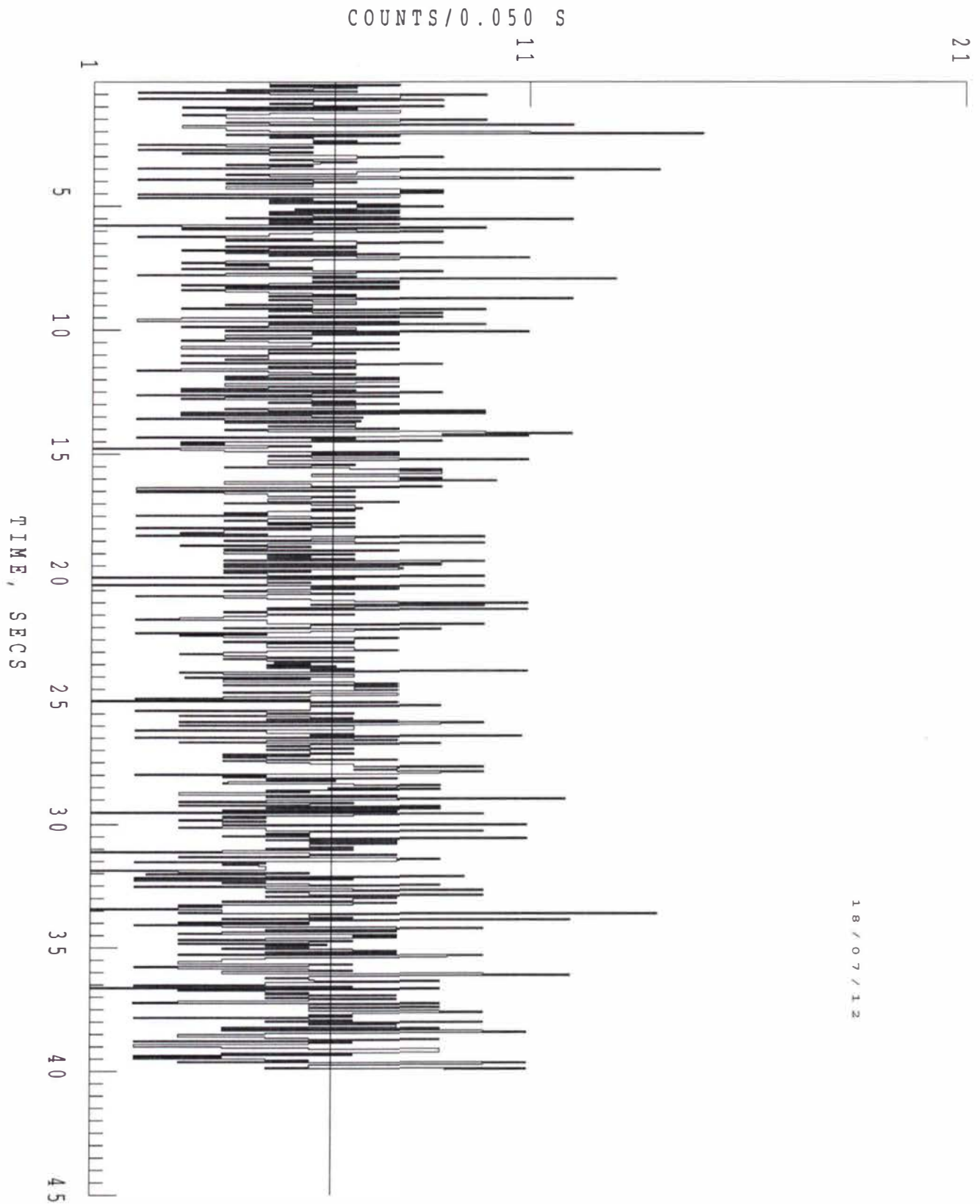
Attachments:

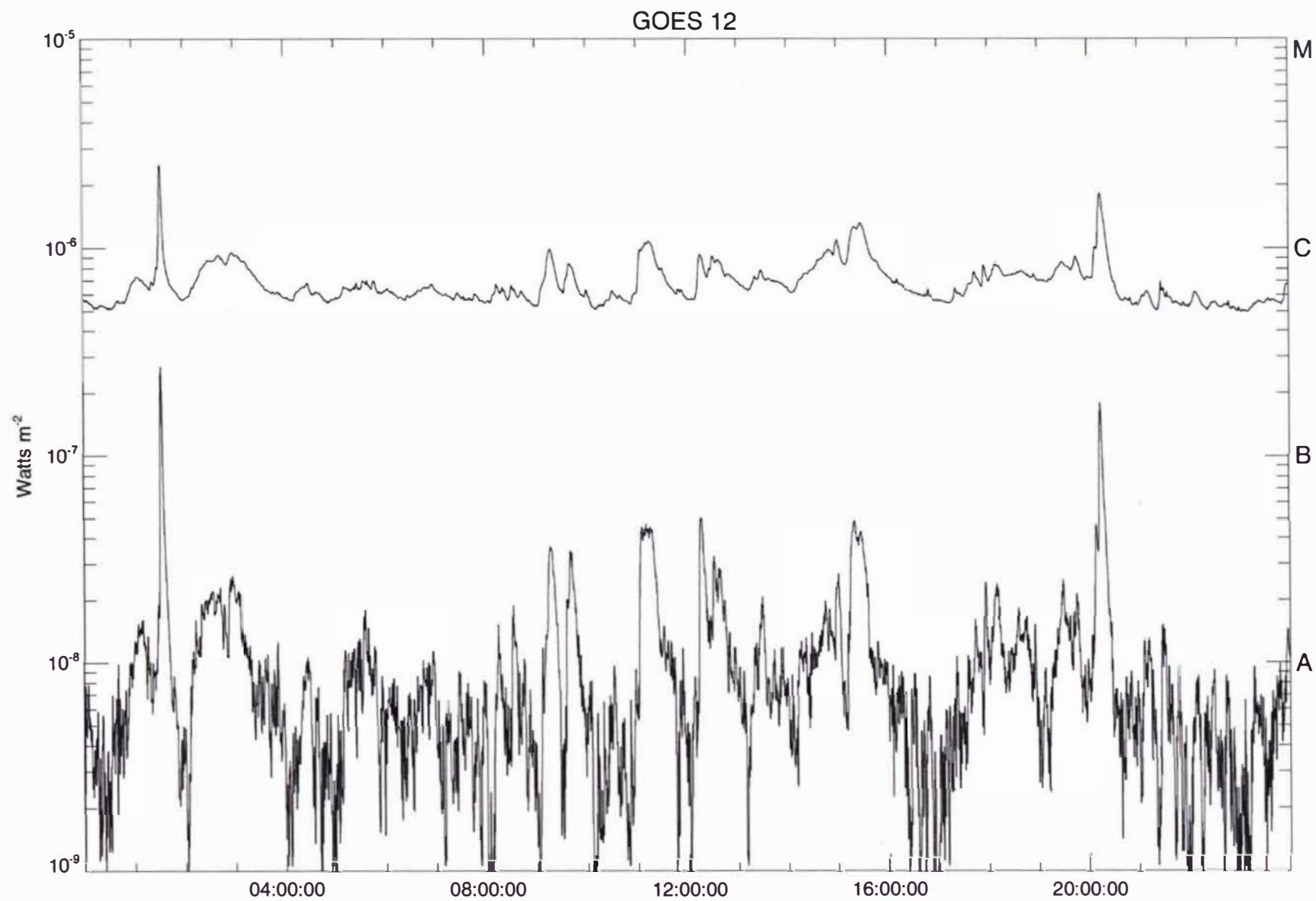
/tmp/120421_0817.png	23.0 KB
/tmp/120421_0817_bat64ms_ipn	87.1 KB

HESSI

21/04/12 29843.000 (FERMI_20120421_29863)

25- 150 keV





Data Start: 12/04/21, 0000:10

Plot created: 12/04/24, 0840

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

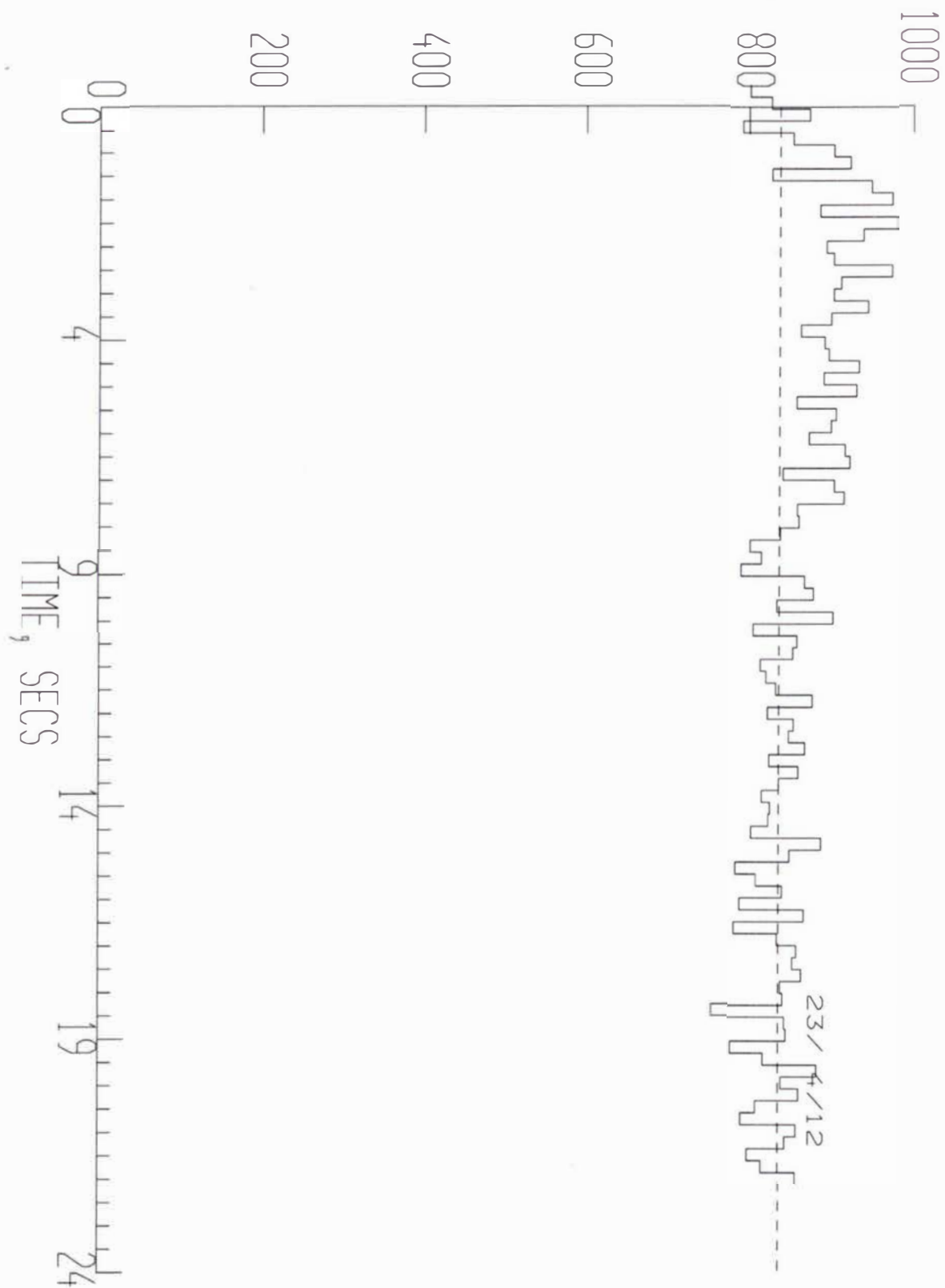
From vxw@capella2.gsfc.nasa.gov Sun Apr 22 00:16:36 2012
 X-Barracuda-Envelope-From: vxw@capella2.gsfc.nasa.gov
 X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
 X-Barracuda-Apparent-Source-IP: 128.183.96.236
 X-Barracuda-RBL-IP: 128.183.96.236
 Date: Sun, 22 Apr 2012 03:17:12 -0400
 From: Bacodine <vxw@capella2.gsfc.nasa.gov>
 To: khurley@ssl.berkeley.edu
 Subject: GCN/SWIFT BAT LIGHTCURVE
 X-Ucb-Scan-Signature: c5b8606b82c9b2709c9f85ae93ea846133c180d6
 X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
 X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE:	GCN/SWIFT NOTICE	
NOTICE_DATE:	Sun 22 Apr 12 07:15:43 UT	
NOTICE_TYPE:	Swift-BAT GRB Lightcurve	5.35 s
TRIGGER_NUM:	520658, Seg_Num: 0	$2.3 \times 10^{-7} \text{ erg cm}^{-2}$
GRB_RA:	136.929d {+09h 07m 43s} (J2000), 137.098d {+09h 08m 24s} (current), 136.240d {+09h 04m 58s} (1950)	0.6 phot/cm ² s
GRB_DEC:	+14.006d {+14d 00' 23"} (J2000), +13.956d {+13d 57' 23"} (current), +14.209d {+14d 12' 31"} (1950)	
GRB_DATE:	16039 TJD; 113 DOY; 12/04/22	
GRB_TIME:	25923.64 SOD {07:12:03.64} UT	
TRIGGER_INDEX:	298	
GRB_PHI:	-110.99 [deg]	
GRB_THETA:	23.54 [deg]	
DELTA_TIME:	-56.00 [sec]	
TRIGGER_DUR:	4.096 [sec]	
COLN_STATUS:	0x3	
RATE_SIGNIF:	11.83 [sigma]	
IMAGE_SIGNIF:	8.33 [sigma]	
LC_URL:	sw00520658000msb.lc	
SUN_POSTN:	30.37d {+02h 01m 28s} +12.36d {+12d 21' 42"}}	
SUN_DIST:	102.78 [deg] Sun_angle= -7.1 [hr] (East of Sun)	
MOON_POSTN:	40.25d {+02h 40m 59s} +17.65d {+17d 38' 46"}}	
MOON_DIST:	92.13 [deg]	
MOON_ILLUM:	1 [%]	
GAL_COORDS:	215.24, 36.45 [deg] galactic lon,lat of the burst (or transient	
ECL_COORDS:	135.19, -2.38 [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 = 180.72,-19.45 [de	

SWIFT 22/04/12 25923.648

25- 100 keV

COUNTS/0.256 S



MS01

22/04/12

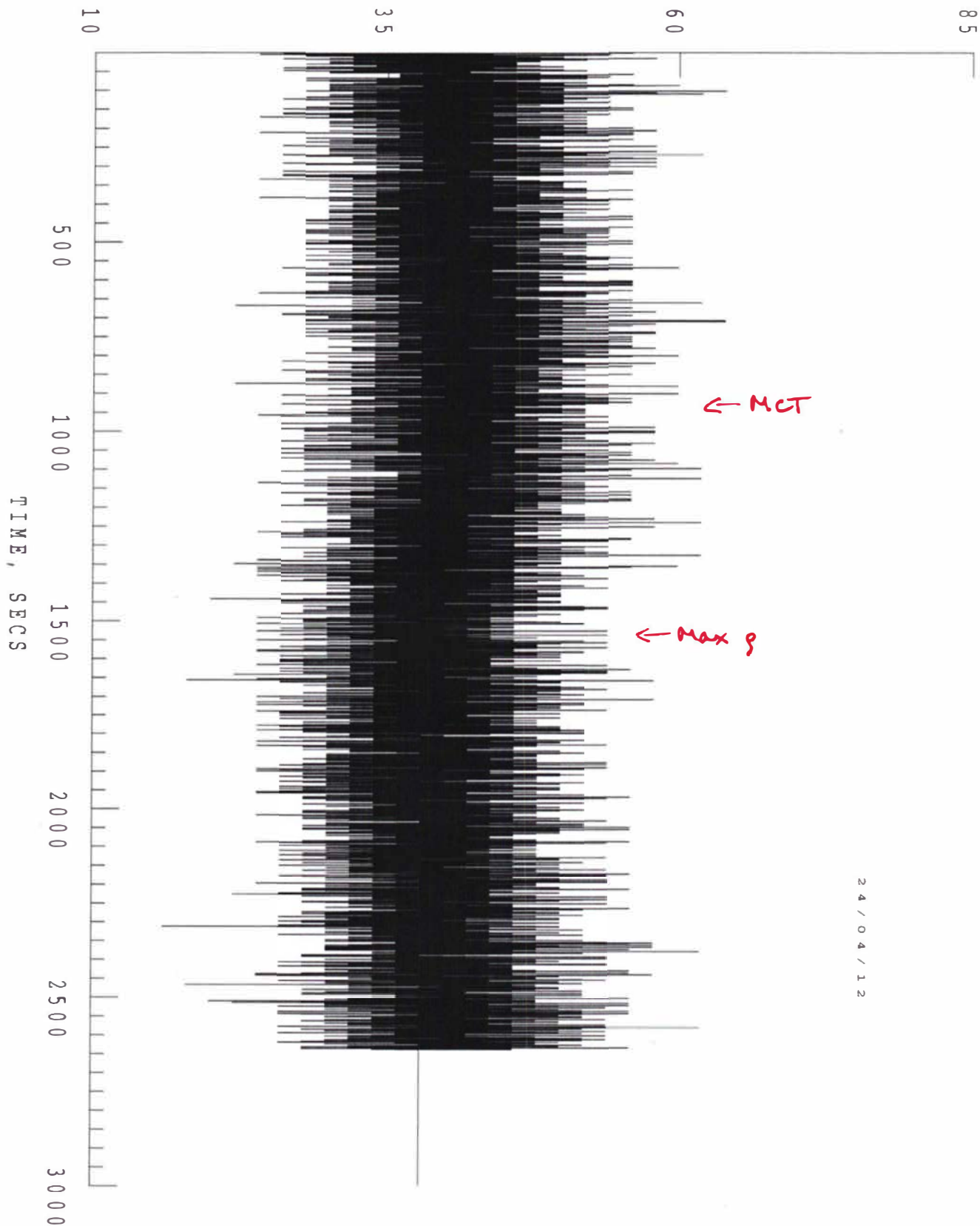
24596.040

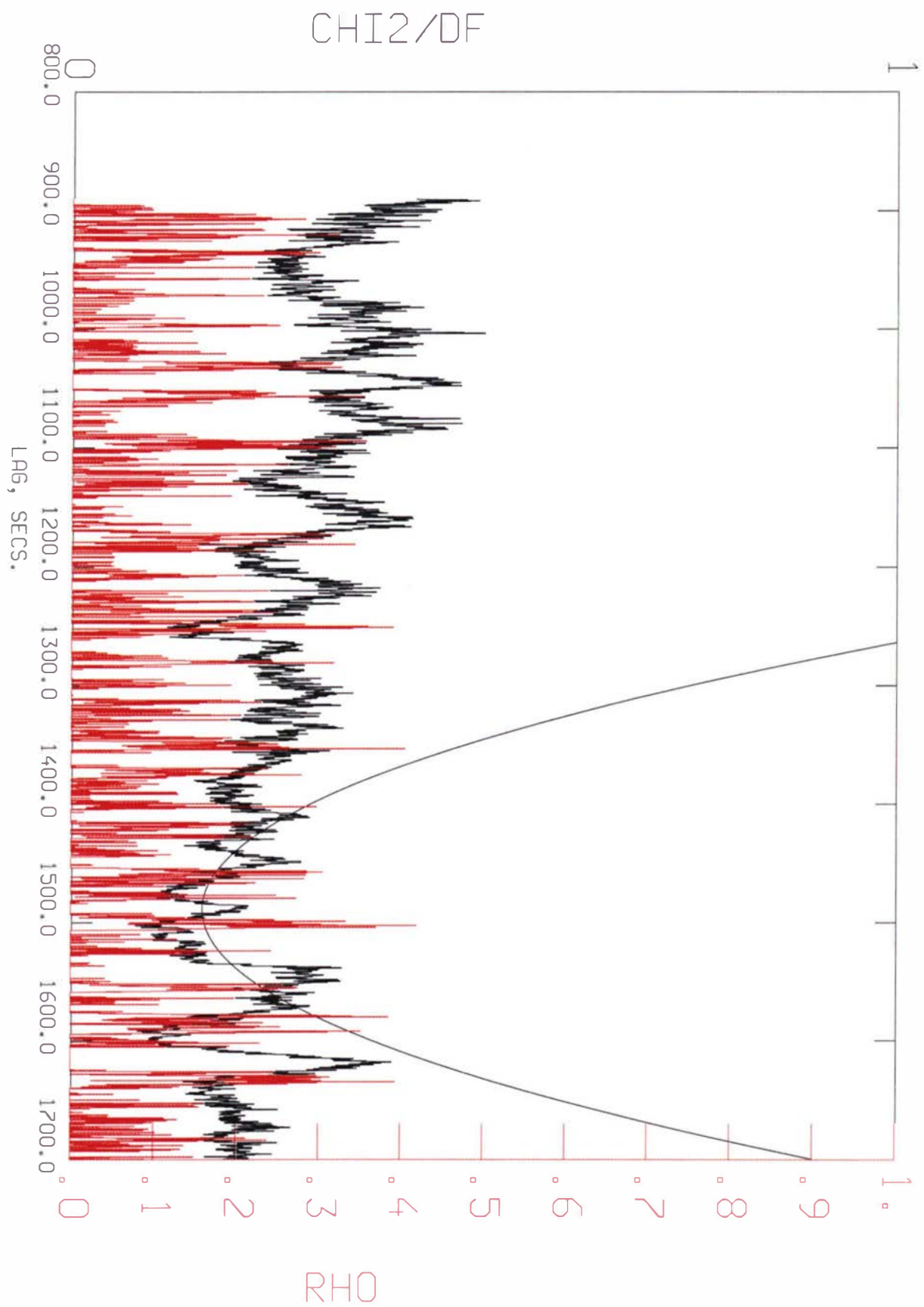
50 - 3000 keV

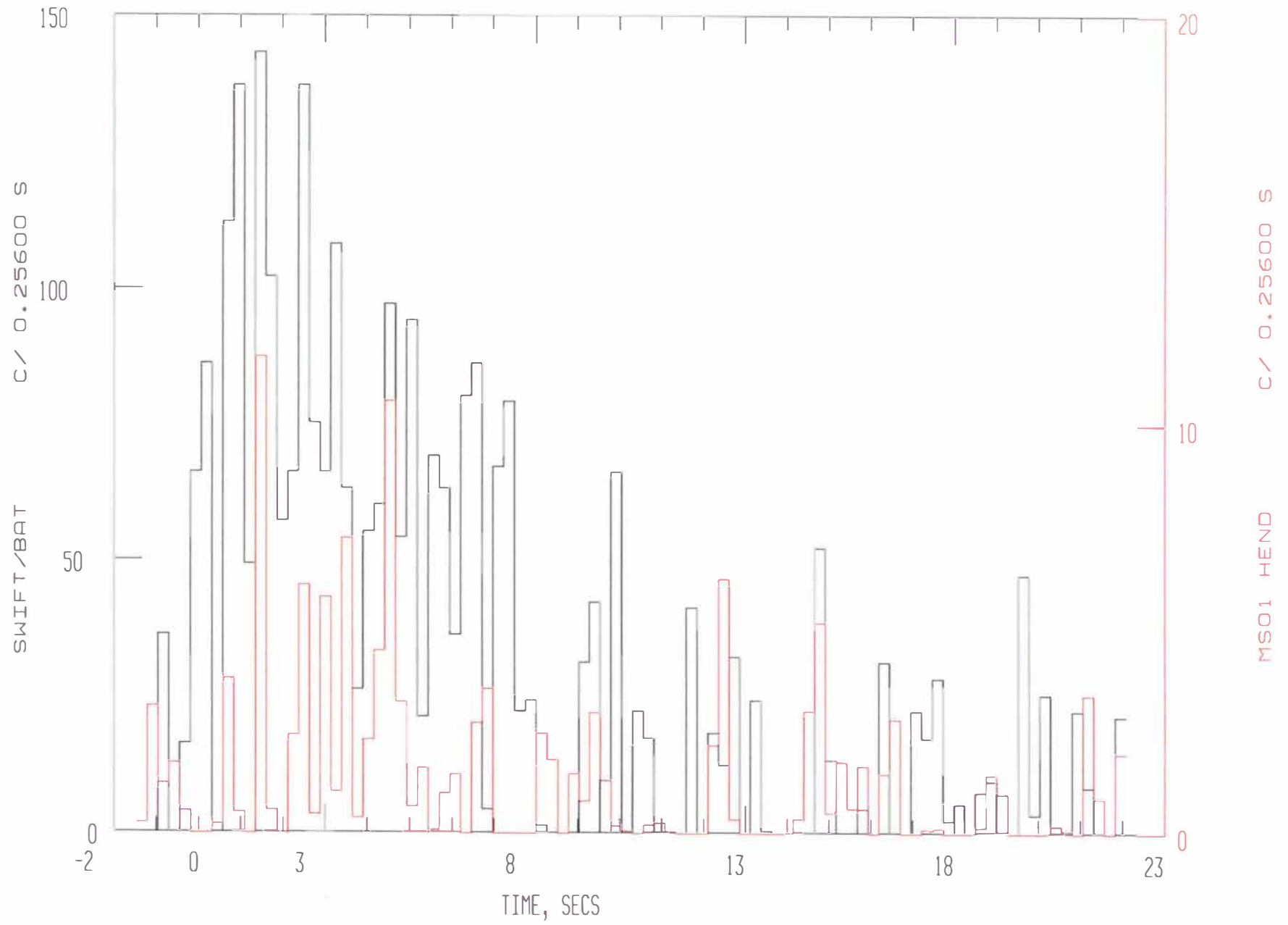
$L_{\text{GRB}/0/M} = 124^\circ$

Unocculted

COUNTS/0.250 S



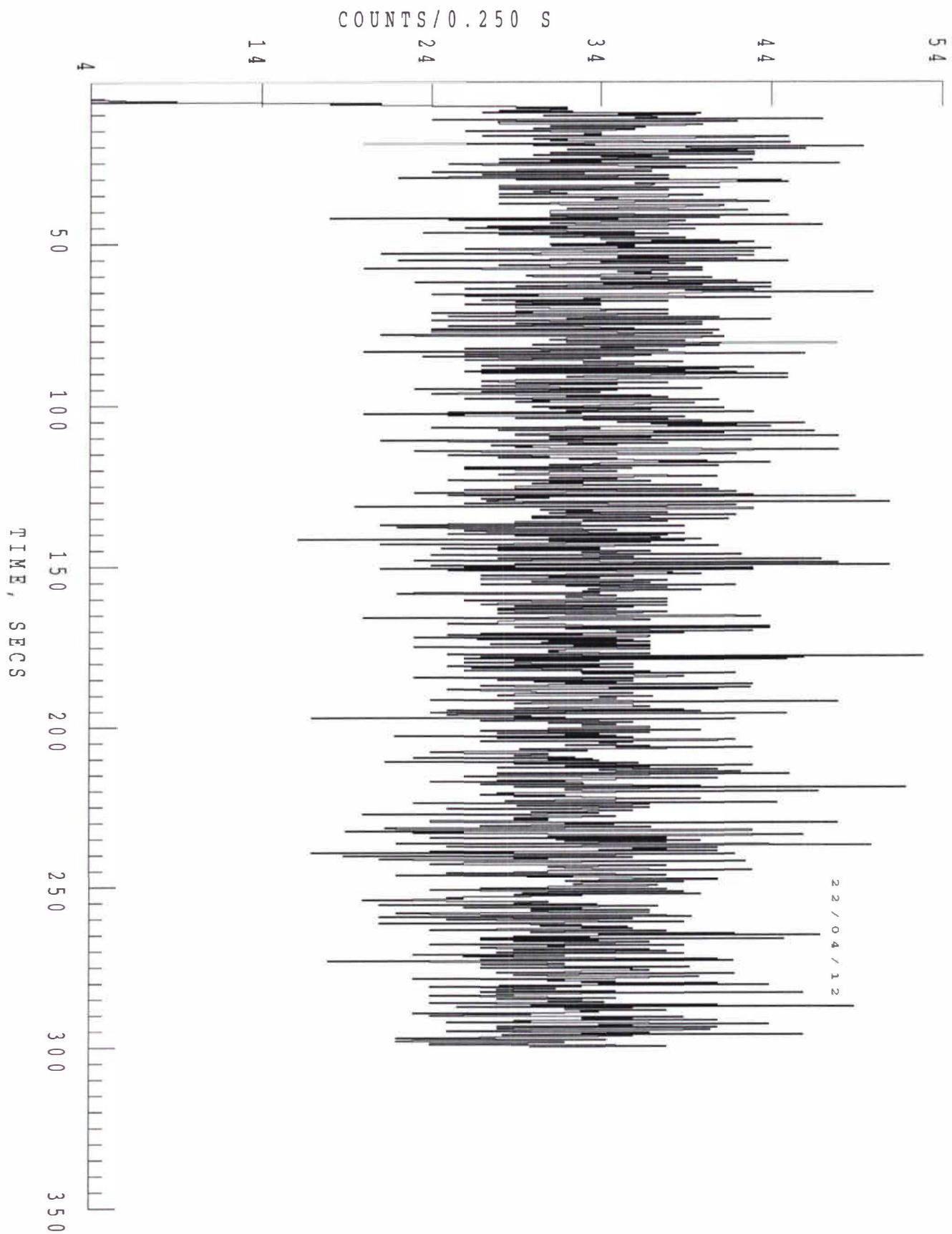




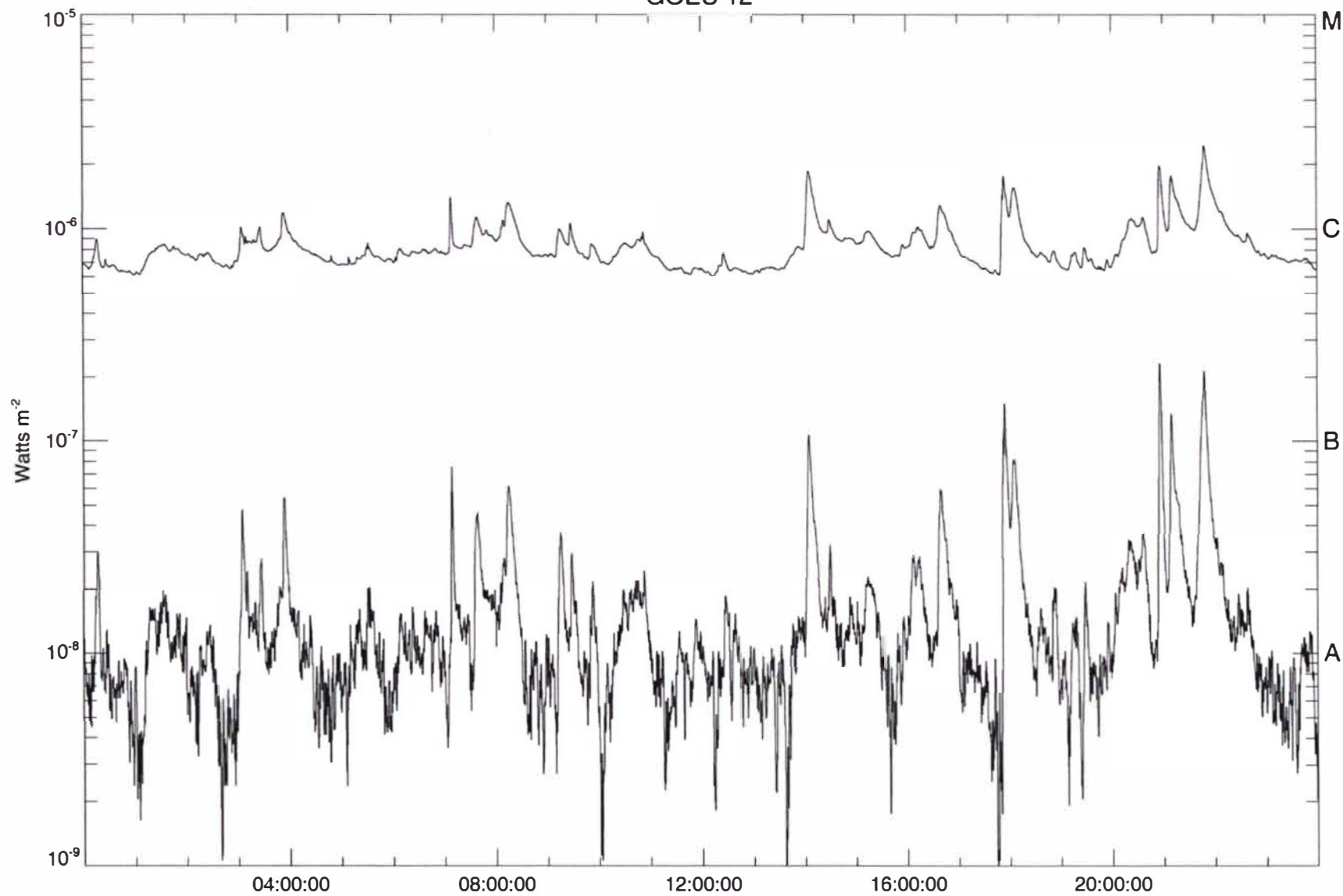
HESSI

22/04/12 25773.000 (SWIFT_20120422_25923)

25- 150 keV



GOES 12



Data Start: 12/04/22, 0000:10

Plot created: 12/04/25, 0840

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 120423_0825

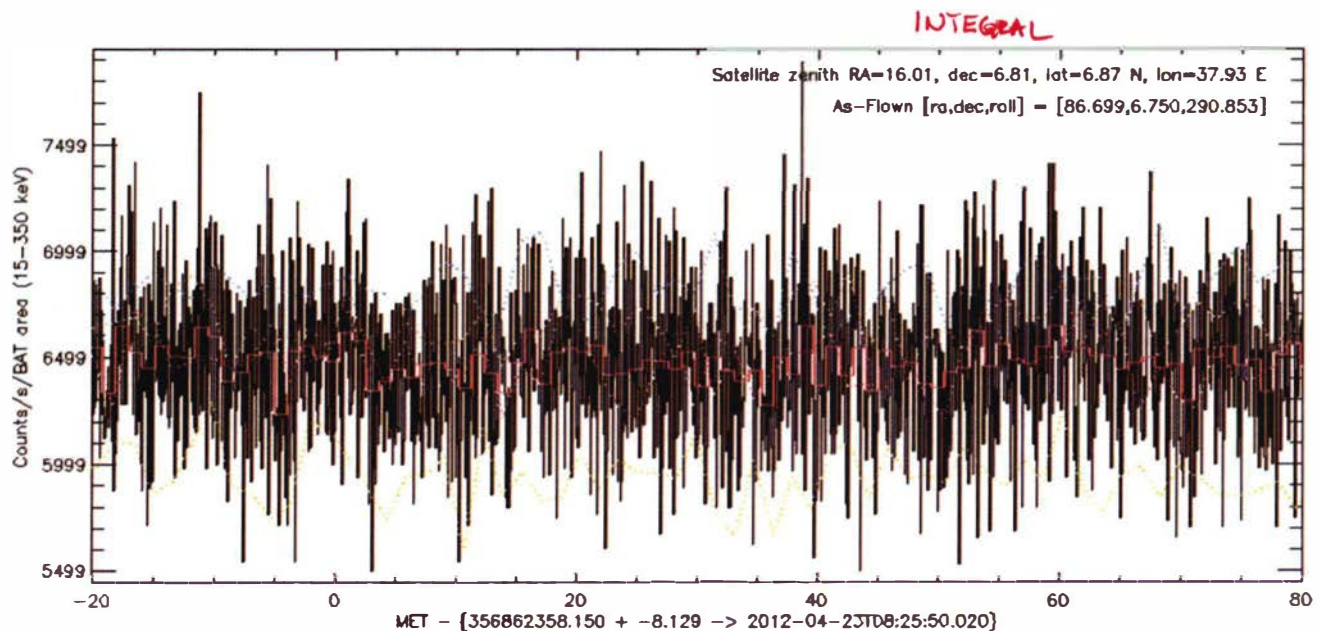
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/23/2012 2:25 PM

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/120423_0825.png



```
% /usr/local/bin/swinfo -o 356862358.149
Time(MET + UTC -> UT):      356862358.150 + -8.129 -> 2012-04-23T08:25:50.020
Swift Zenith(RA,dec):       16.01, 6.81
Swift Location(lon,lat,alt): 37.93 E, 6.87 N, 579 km
Obs Sequence Number:        00091484003
Obs Target Name:            STHA 55
Obs Date and Times:         2012-04-23 08:16:53 - 08:36:52
Obs Pointing(ra,dec,roll):  86.699, 6.750, 290.85
```

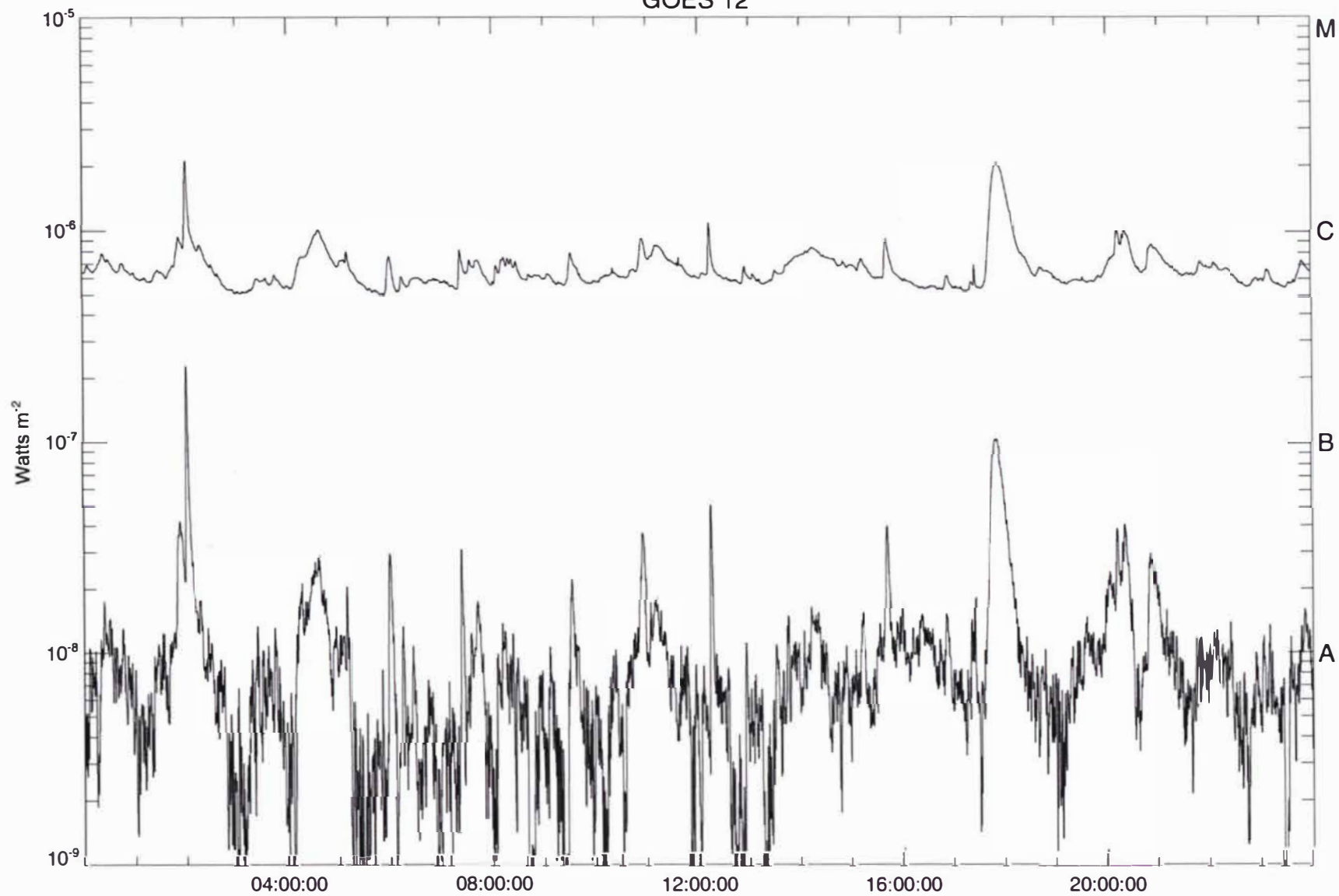
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
TSPA -- Automatically generated plot of publicly-available scientific data

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

Attachments:

/tmp/120423_0825.png	23.3 KB
/tmp/120423_0825_bat64ms_ipn	87.1 KB

GOES 12



Data Start: 12/04/23, 0000:10

Plot created: 12/04/26, 0844

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

SUZAKU

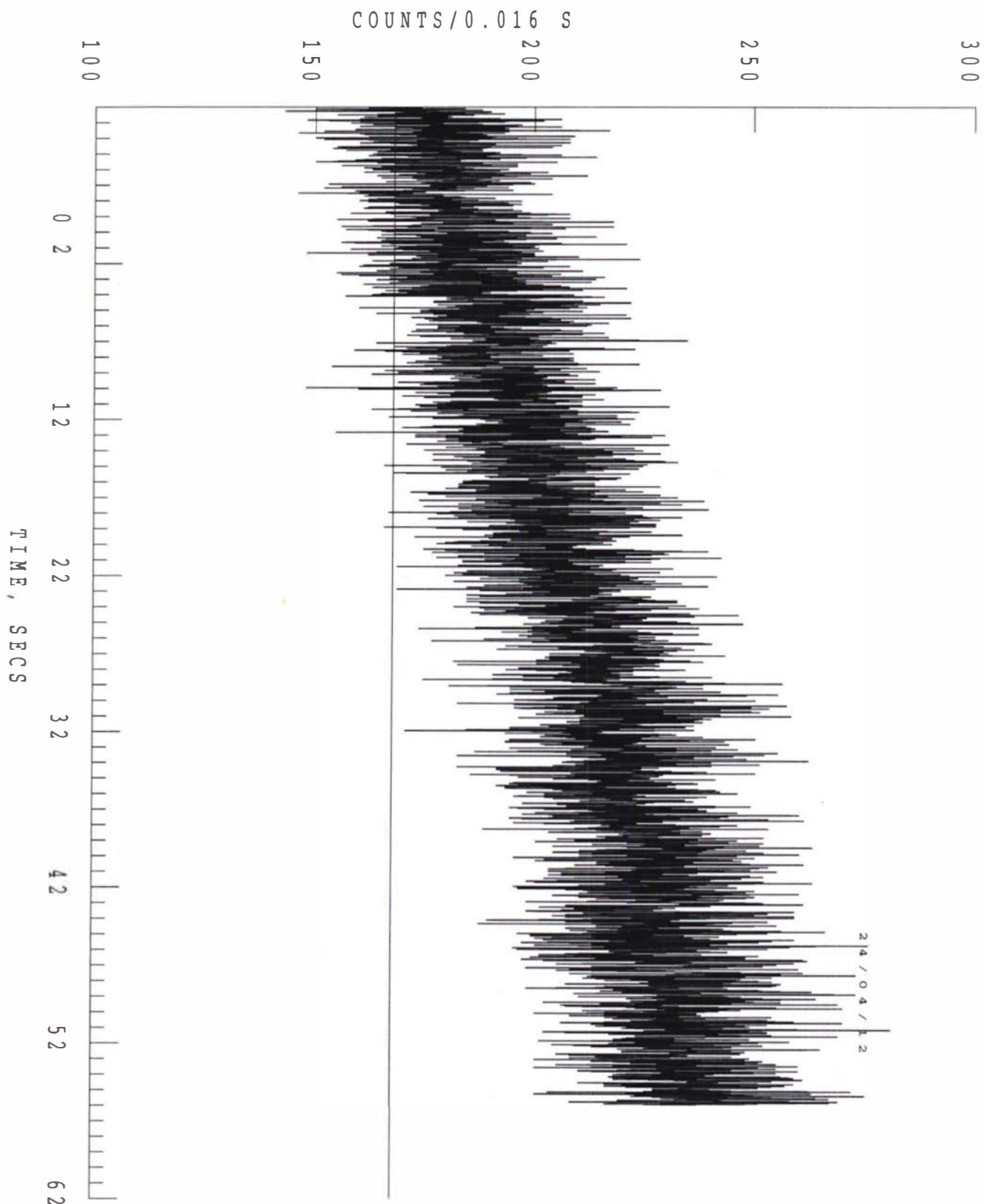
24/04/12

24187.534

06:43:07

50 - 240 keV

Particles



From williams@gammaburst.ssl.berkeley.edu Sun Apr 29 23:10:41 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.147
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Sun, 29 Apr 2012 23:02:02 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for SUZAKU 20120424_24187
X-Ucb-Scan-Signature: 425a7b51865d18488d302460d21b09ff6e1c8a32
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 29-Apr-2012 23:10:17.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.250000
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

From gcncirc@capella2.gsfc.nasa.gov Wed Apr 25 05:00:02 2012
X-Barracuda-Envelope-From: gcncirc@capella2.gsfc.nasa.gov
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.147
X-Barracuda-Apparent-Source-IP: 128.183.96.236
X-Barracuda-RBL-IP: 128.183.96.236
From: GCN Circulars <gcncirc@capella2.gsfc.nasa.gov>
Subject: GRB 120424A: MAXI/GSC detection of a burst
To: khurley@ssl.berkeley.edu
Date: Wed, 25 Apr 2012 08:00:18 -0400 (EDT)
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Ucb-Scan-Signature: 7a073e7bc2248afbc5ce50baf6466c816a40286e
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

TITLE: GCN CIRCULAR
NUMBER: 13261
SUBJECT: GRB 120424A: MAXI/GSC detection of a burst
DATE: 12/04/25 12:00:14 GMT
FROM: Motoko Suzuki at RIKEN <motoko@crab.riken.jp>

MCT 60739

LGRB/O/M=85°

Unocculted

M. Serino, T. Yamamoto, T. Mihara, M. Sugizaki, M. Matsuoka (RIKEN),
S. Ueno, H. Tomida, S. Nakahira, M. Ishikawa (JAXA),
N. Kawai, M. Morii, R. Usui, K. Ishikawa (Tokyo Tech),
A. Yoshida (AGU),
H. Tsunemi, M. Kimura (Osaka U.),
H. Negoro, M. Nakajima, M. Asada, H. Sakakibara, N. Serita (Nihon U.),
Y. Ueda, K. Hiroi, M. Shidatsu, R. Sato (Kyoto U.),
Y. Tsuboi, M. Higa (Chuo U.),
M. Yamauchi, Y. Nishimura, T. Hanayama, K. Yoshidome (Miyazaki U.),
Y. Yamaoka (Waseda U.)
Report on behalf of the MAXI team:

60434

At the scan transit centered at UT 2012-04-24 16:47:14,
MAXI/GSC detected a short X-ray transient lasting about 34 seconds
within the 40 seconds triangular transit response of MAXI/GSC.
Judging from its high galactic latitude (-80deg) and spectral hardness ratio,
this transient is probably a gamma-ray burst.

Assuming that the source flux was constant over the transit,
we obtain the source position at

(R.A., Dec) = (+23.985deg, -29.879deg) = (01 35 56.40, -29 52 44.0) (J2000)

which has a statistical uncertainty of 16 arcmin at the 90% confidence limit
and an additional systematic uncertainty of 6 arcmin (90% containment radius).

The preliminary flux (4-10 keV) of the source was 170 +/- 30 mCrab.

There was no significant detection at the transit location in the
next orbit (92 min after the detection) with an upper limit of 20 mCrab.
Unfortunately the source position went out of view of the MAXI/GSC sky
coverage at 2012/04/23 22:20, the upper limit at that time was 20 mCrab.
There is no known bright X-ray source at the detected position.

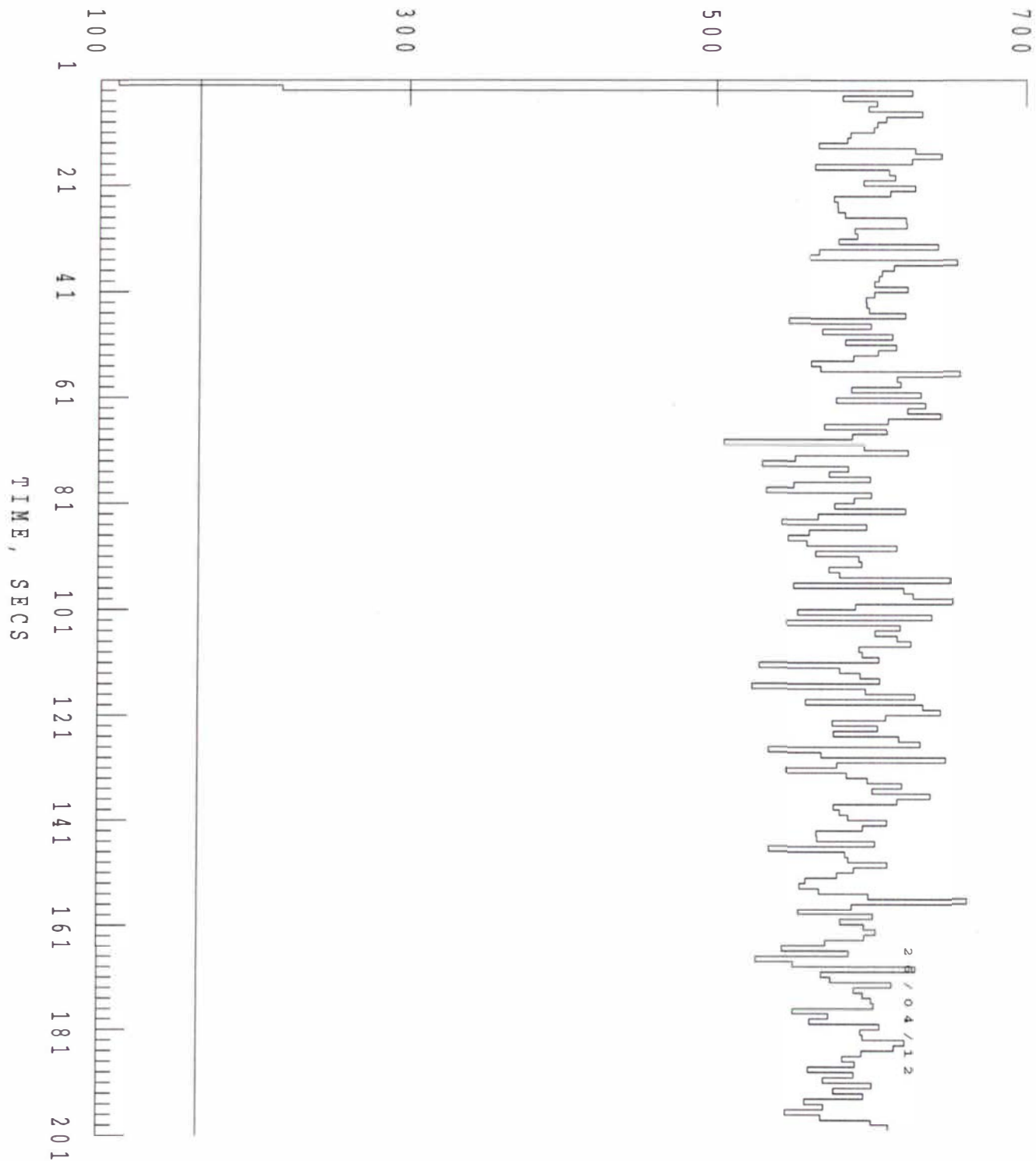
Follow-up observations are encouraged.

HESSI

24/04/12 60334.000 (MAXI_20120424_60434)

25- 150 keV

COUNTS/1.000 S

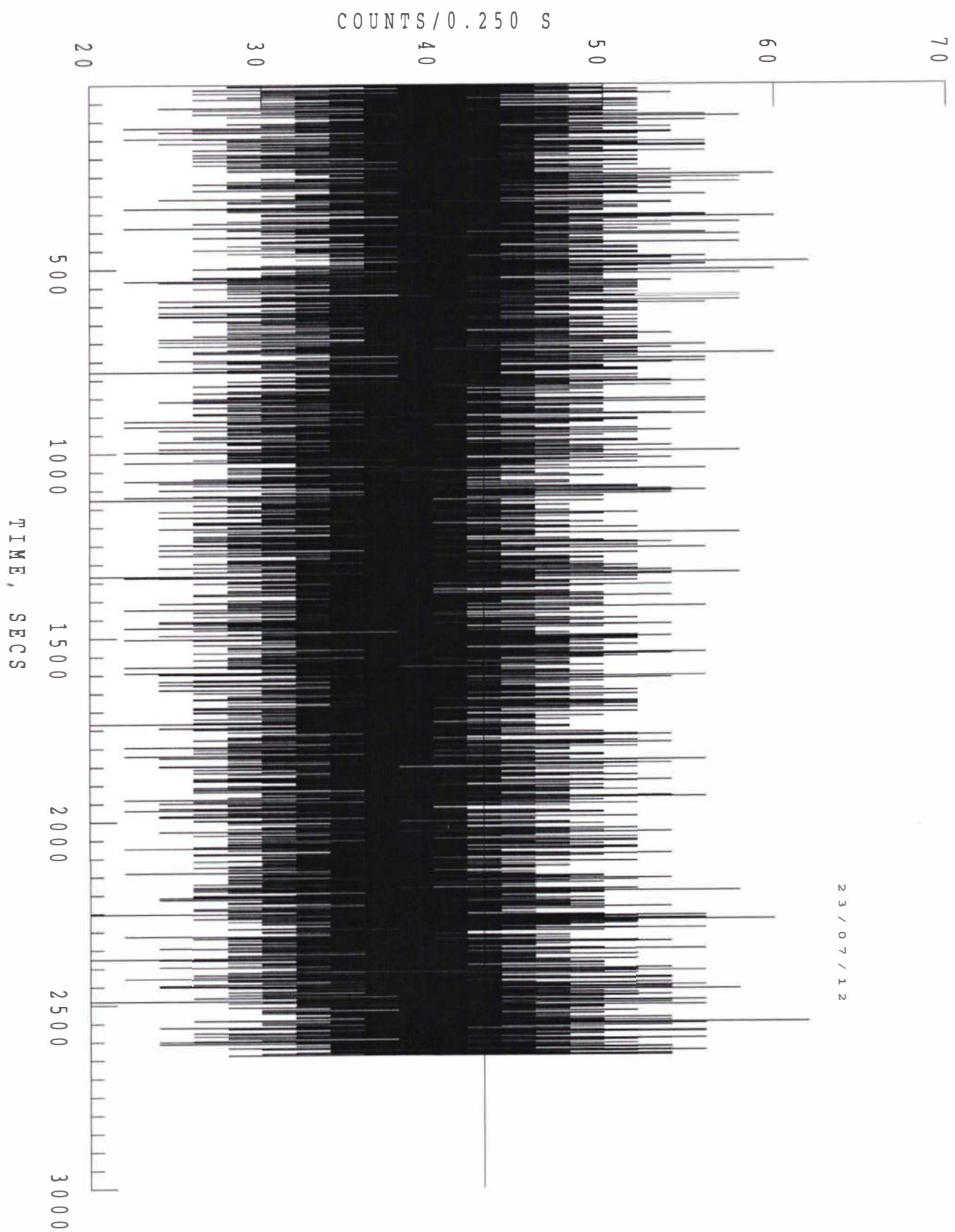


MS01

25/04/12

471.775

50 - 3000 keV



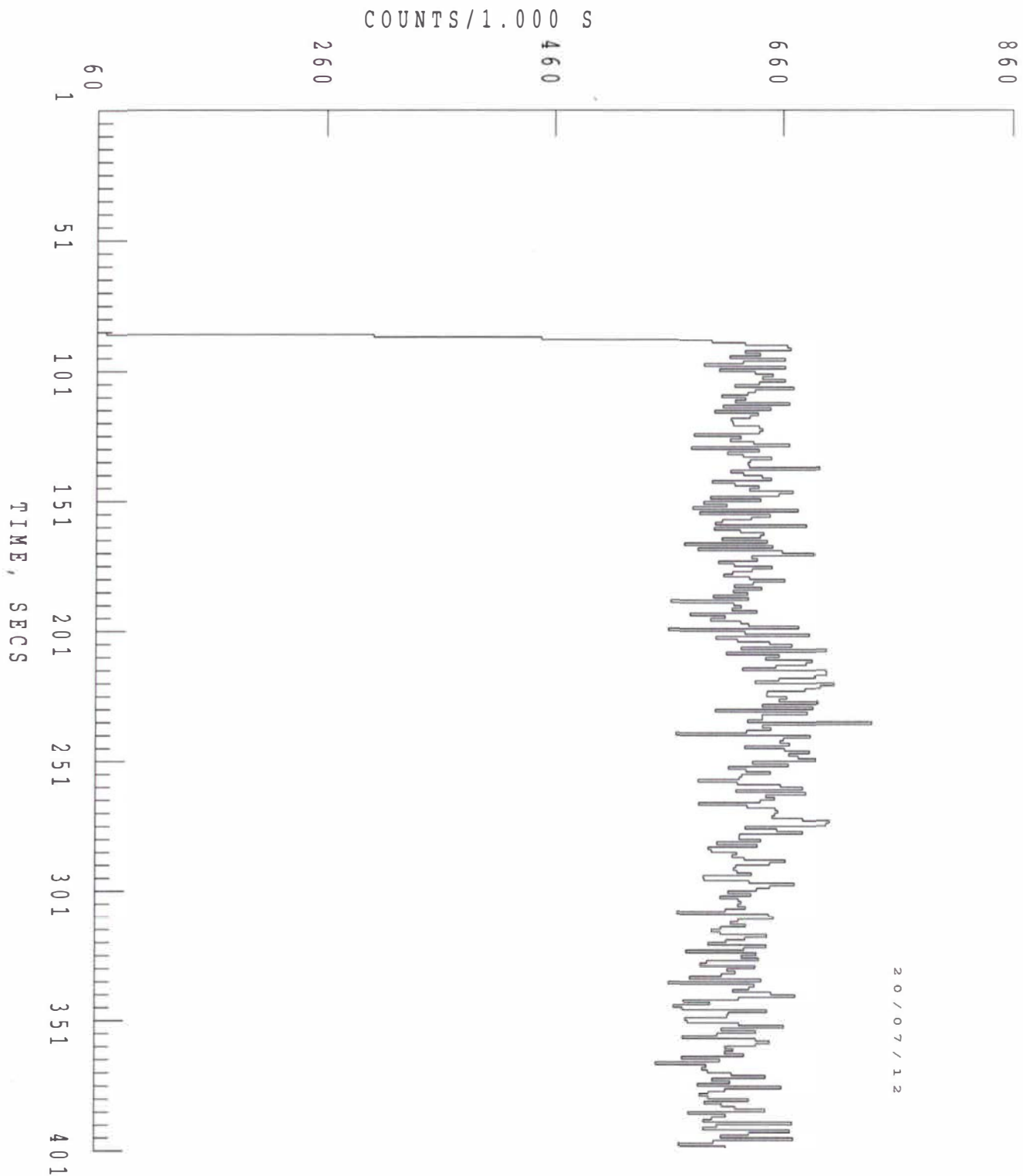
HESSI

25/04/12

1628.000

(KONUS_RI_20120425_01828)

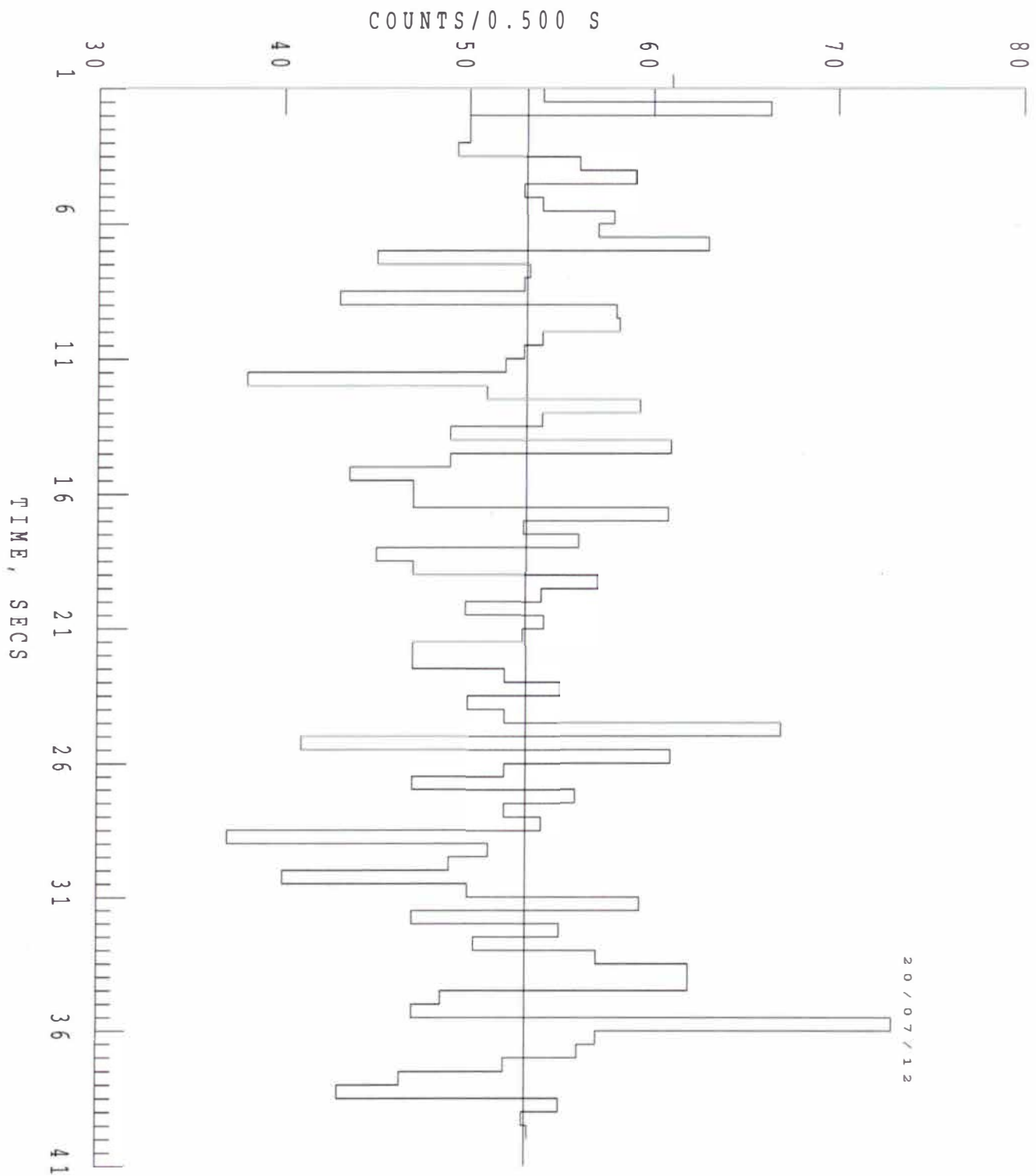
25 - 150 keV



HESSI

25/04/12 13209.000 (SUZAKU_RI_20120425_13229)

25- 150 keV



Subject: [Ipn] BAT lightcurve for trigger at 120425_0949

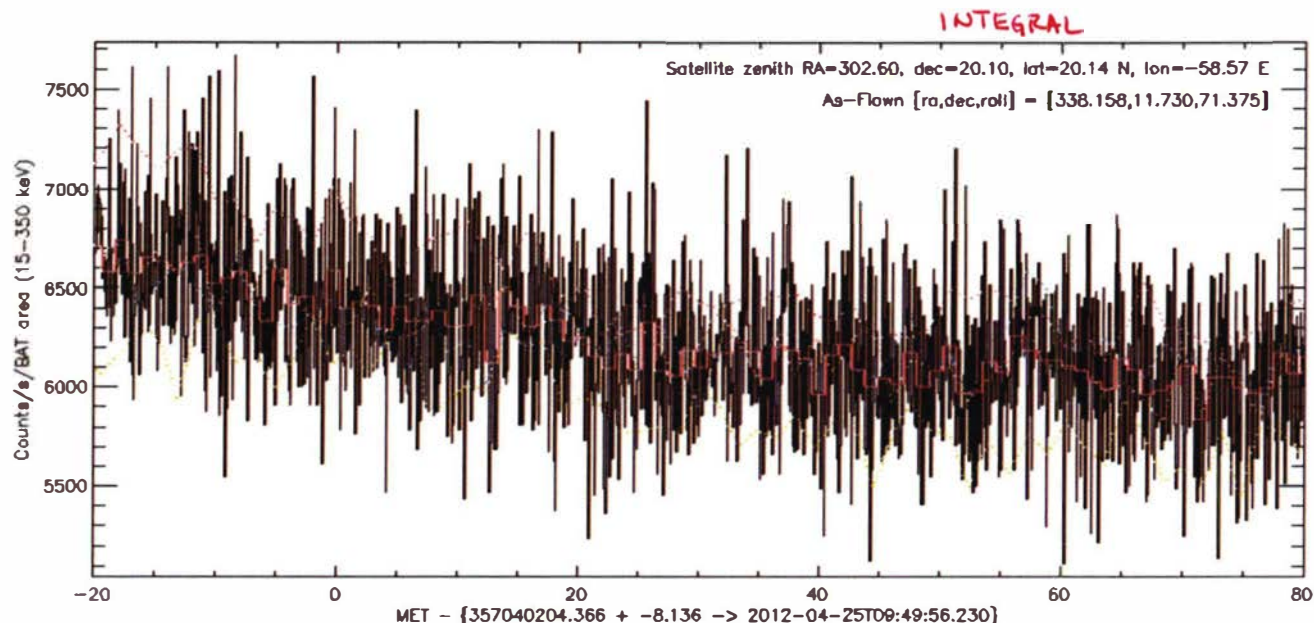
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/25/2012 7:20 AM

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/120425_0949.png



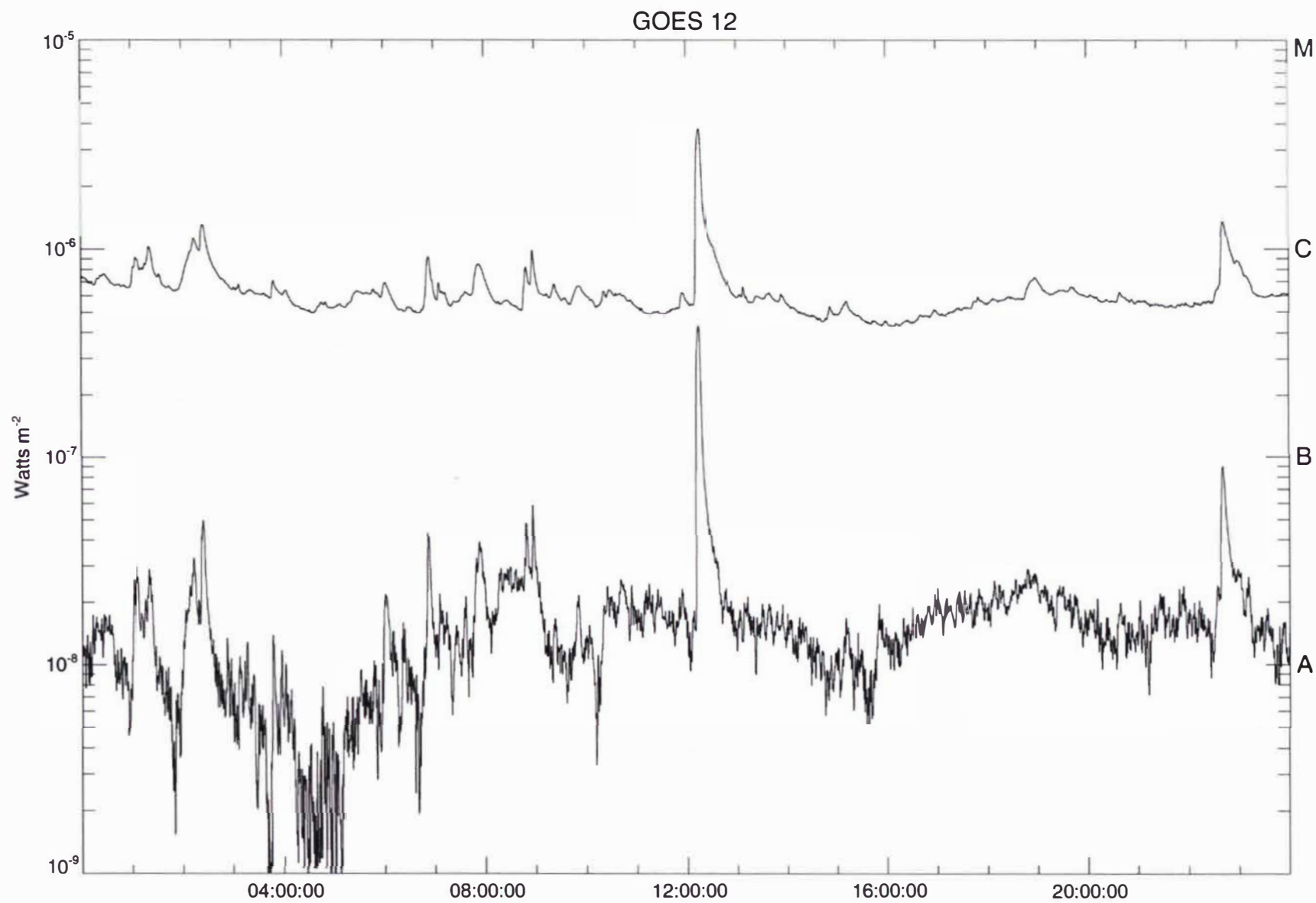
```
% /usr/local/bin/swinfo -o 357040204.366
Time(MET + UTC -> UT): 357040204.366 + -8.136 -> 2012-04-25T09:49:56.230
Swift Zenith(RA,dec): 302.60, 20.10
Swift Location(lon,lat,alt): -58.57 E, 20.14 N, 569 km
Obs Sequence Number: 00036401011
Obs Target Name: 2cmXB2230+114
Obs Date and Times: 2012-04-25 09:48:53 - 10:07:52
Obs Pointing(ra,dec,roll): 338.158, 11.730, 71.38
```

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

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

Attachments:

/tmp/120425_0949.png	22.5 KB
/tmp/120425_0949_bat64ms_ipn	87.1 KB



Data Start: 12/04/25, 0000:10

Plot created: 12/04/28, 0840

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: 8 Aug 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?

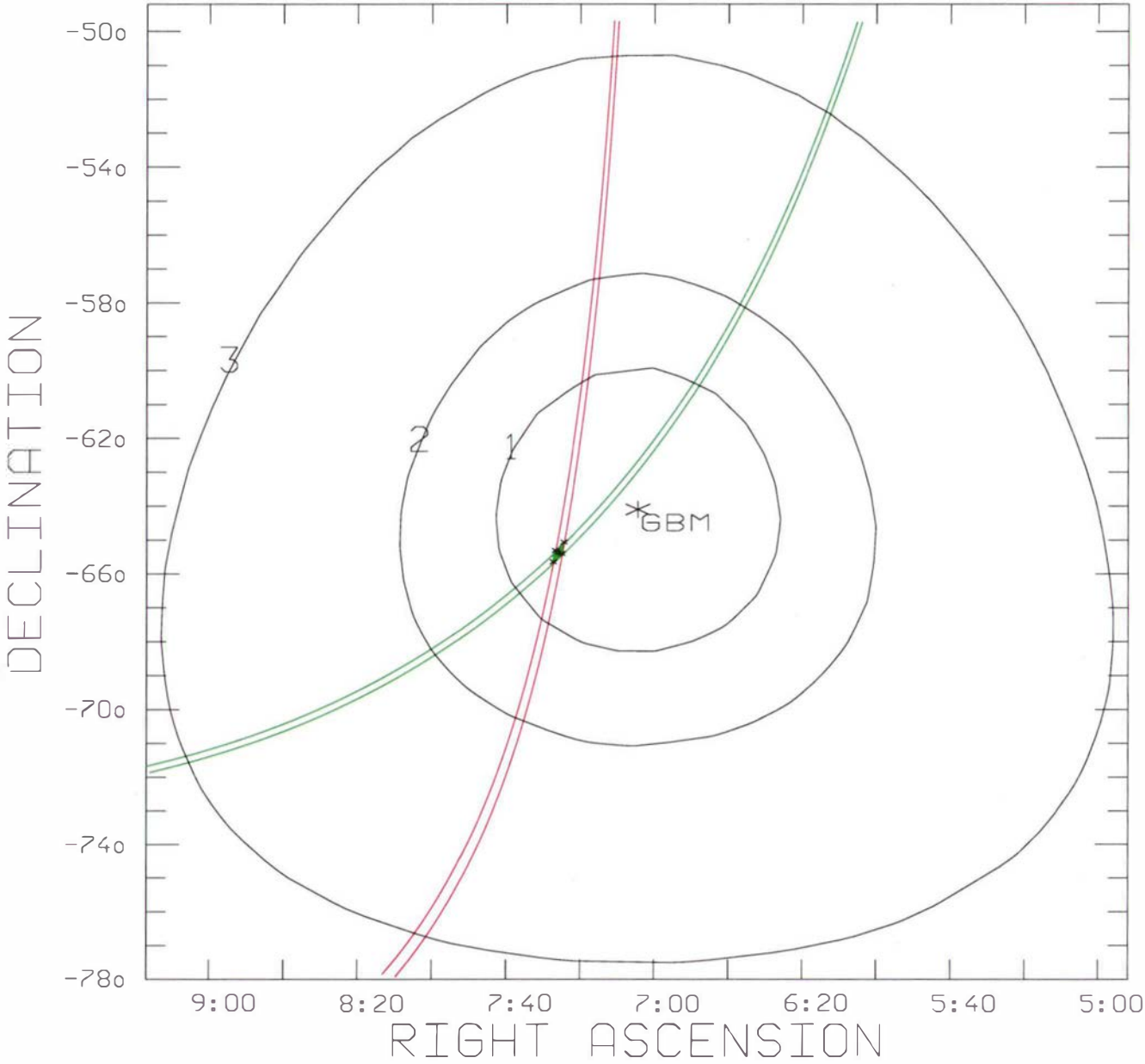
6. For 3 or More Spacecraft events

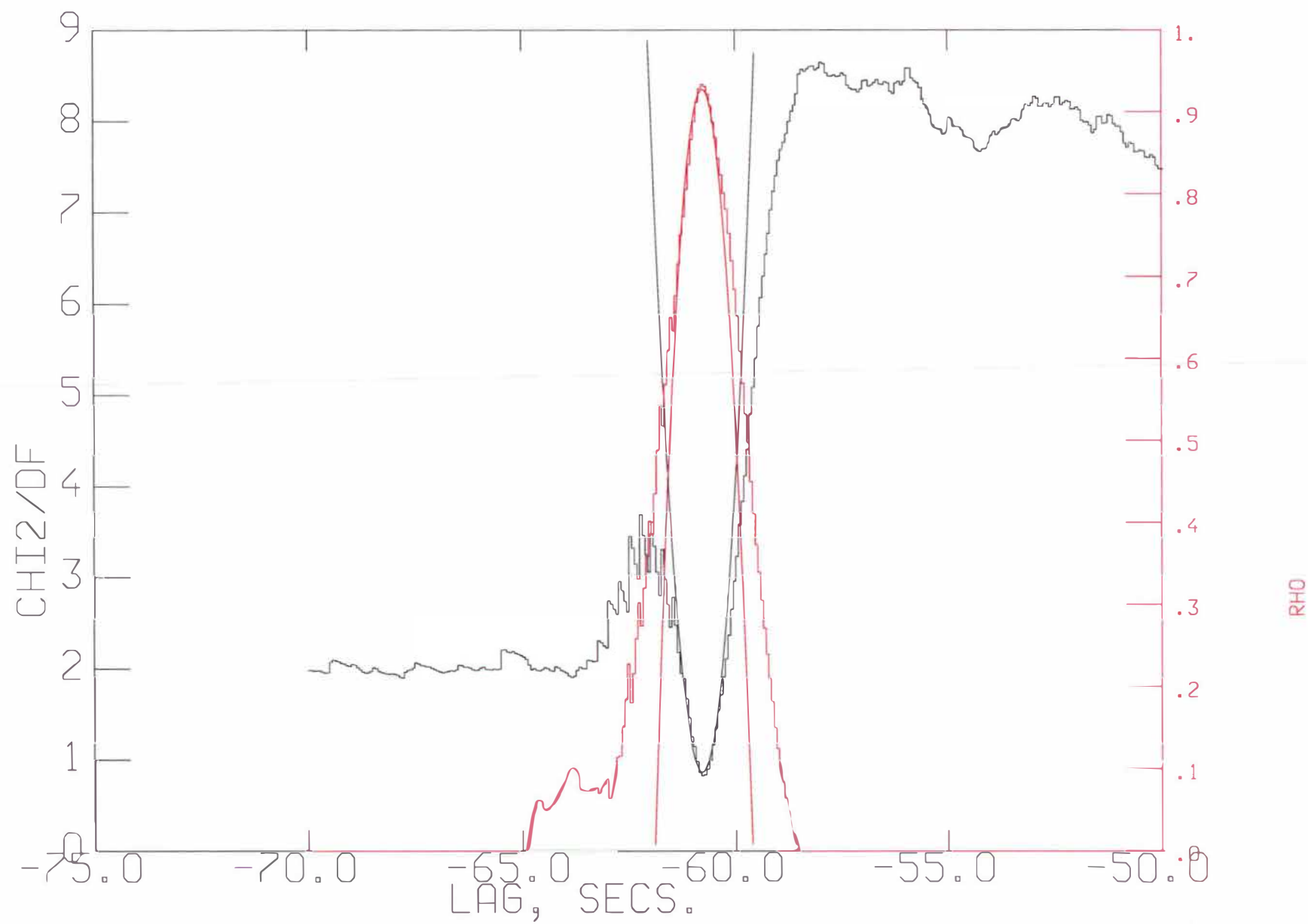
- ☐ $\Sigma 3\Delta t$'s calculated, and/or BMAPSUM executed?

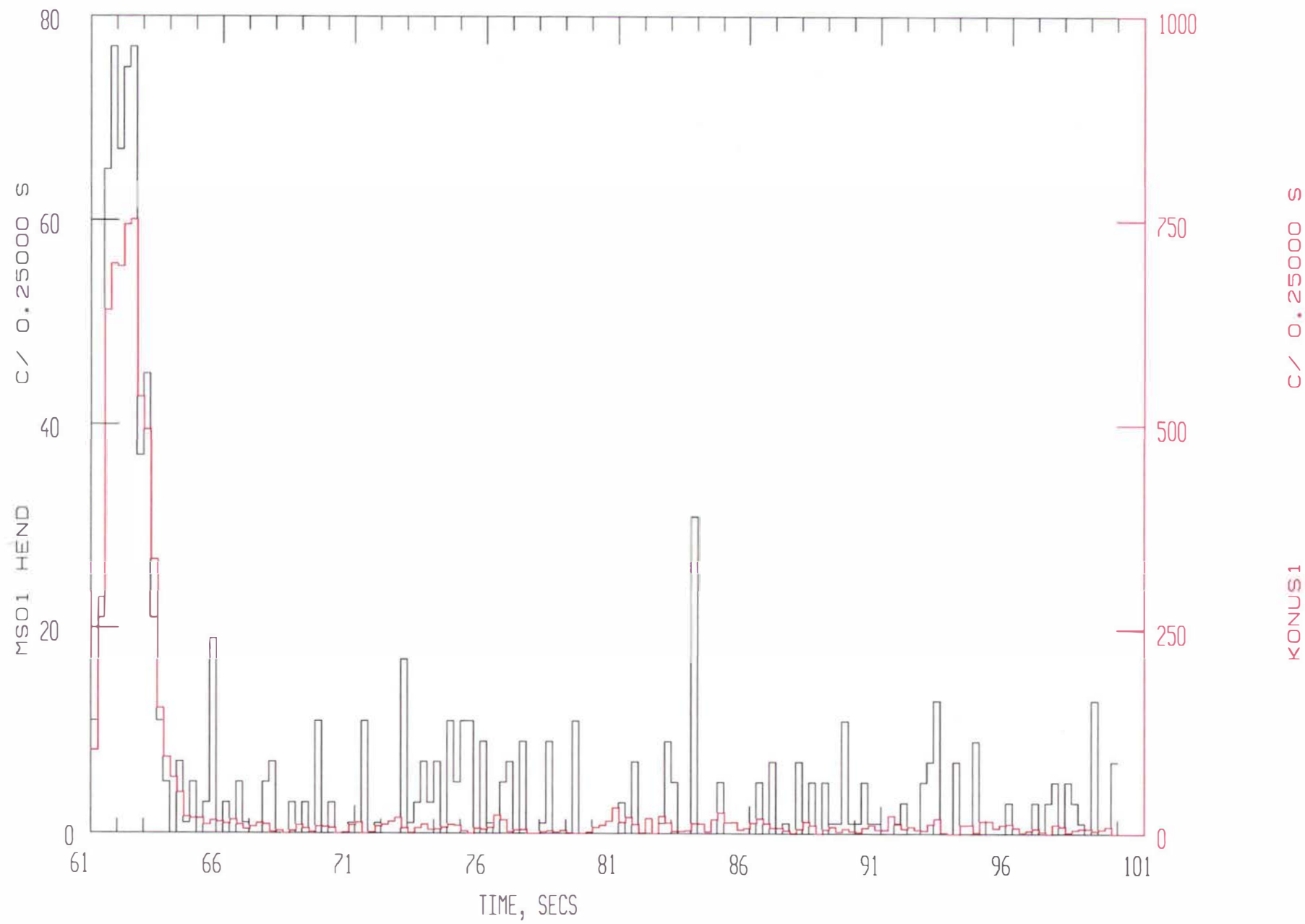
7. For INTEGRAL events

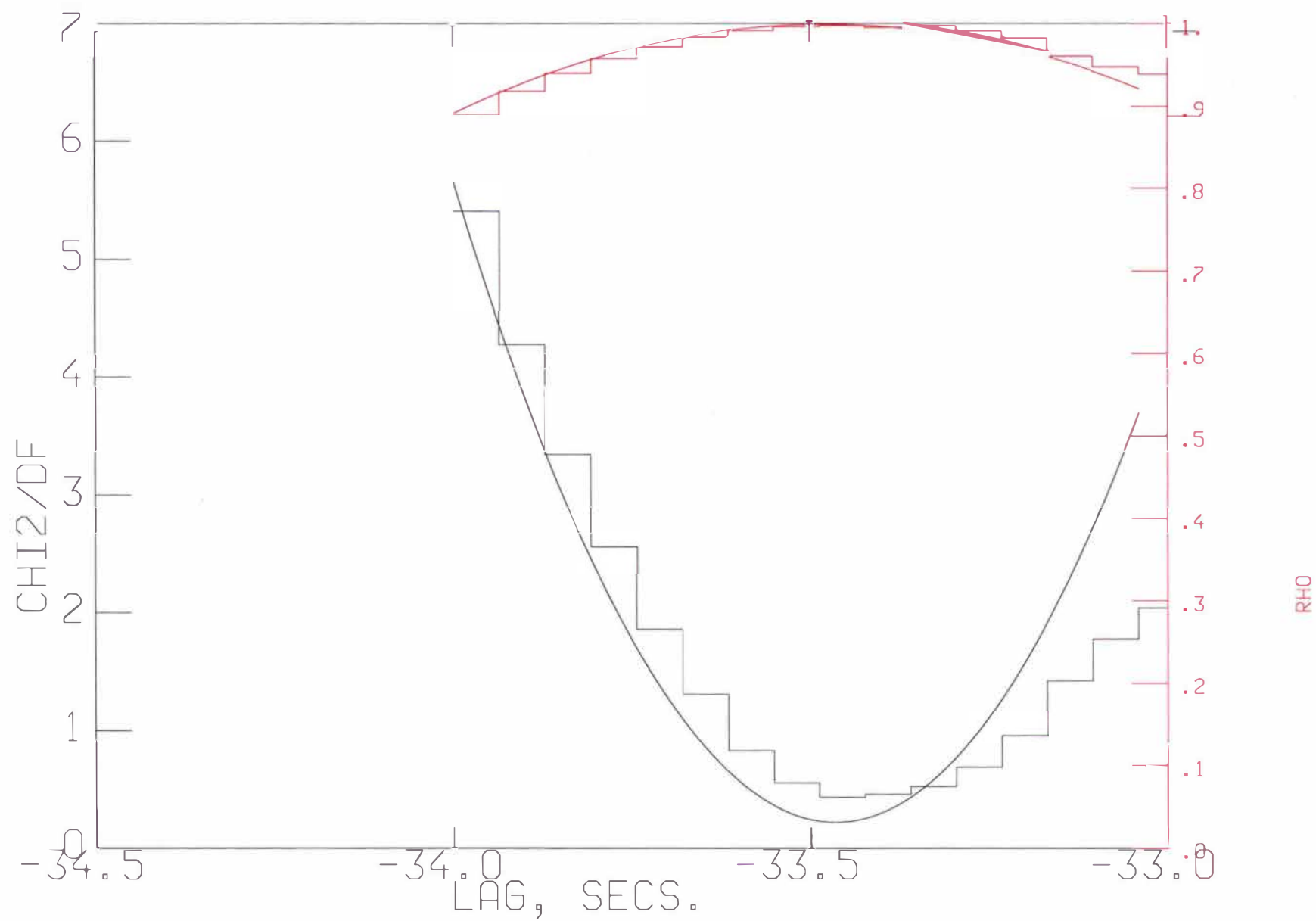
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

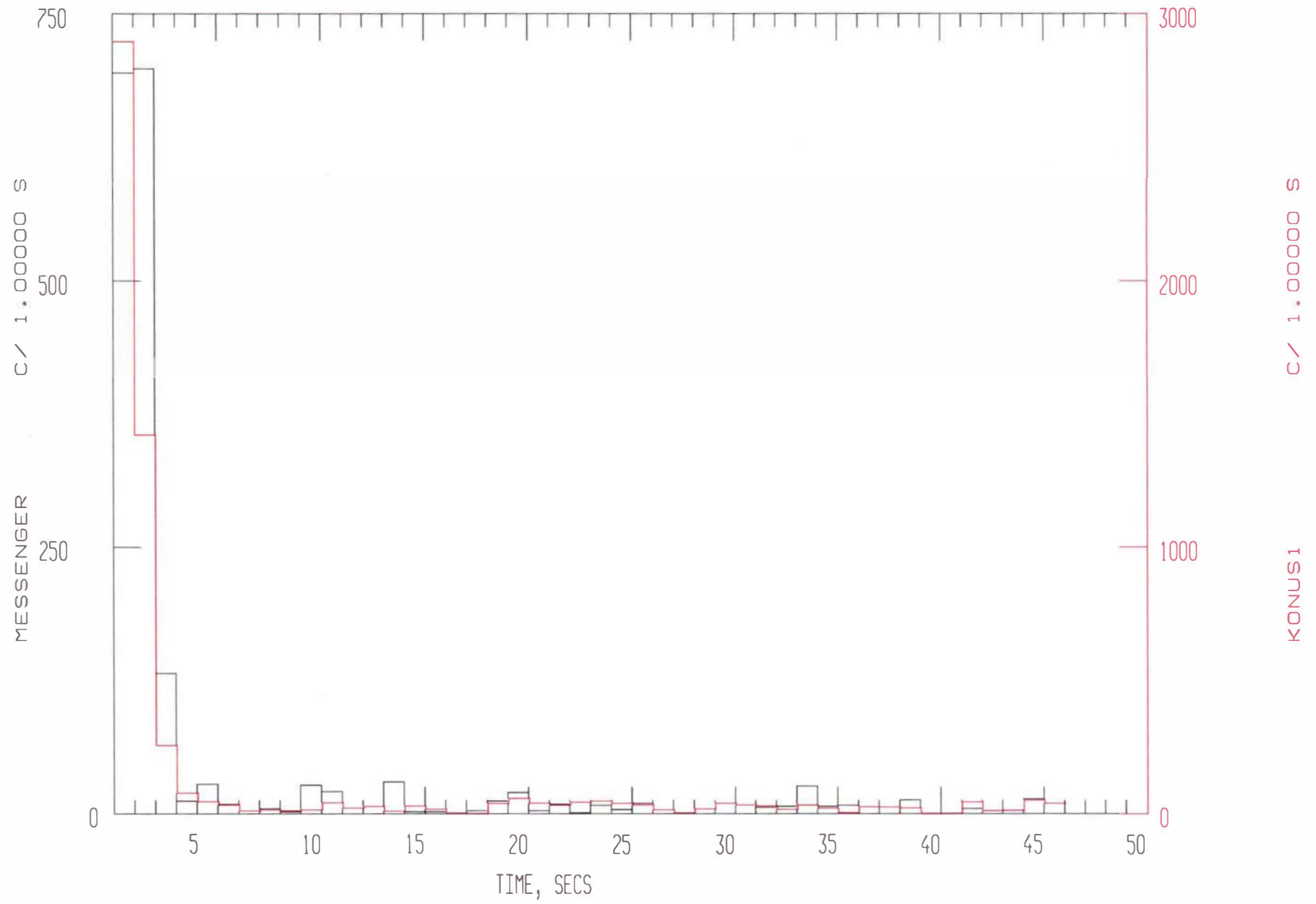
-
- ☒ ACCESS and MBL4 databases updated, with identical times?











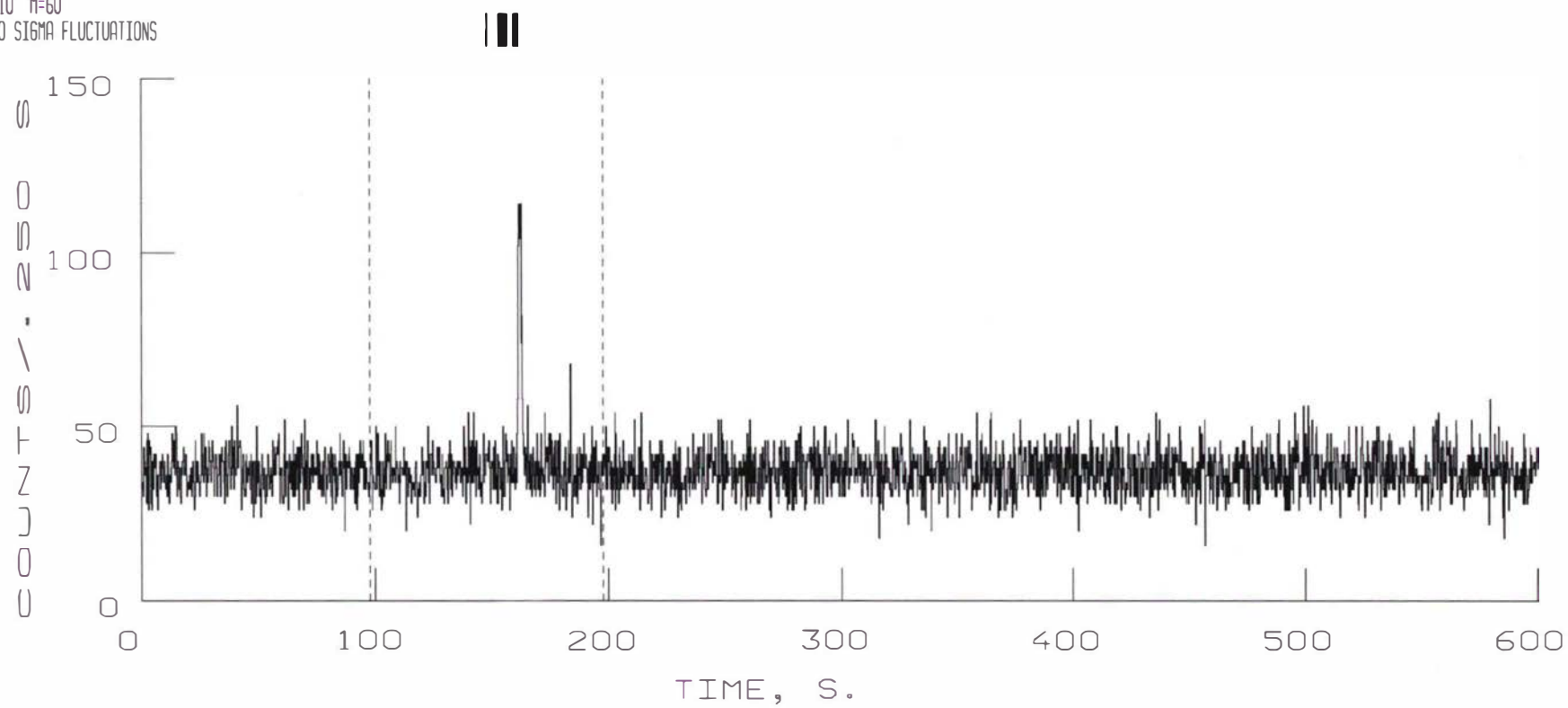
MS01 HEND

08/08/2016

26/04/2012 7550.097 s

50-3000 keV

N= 10 M=60
>4.0 SIGMA FLUCTUATIONS



KONUS1

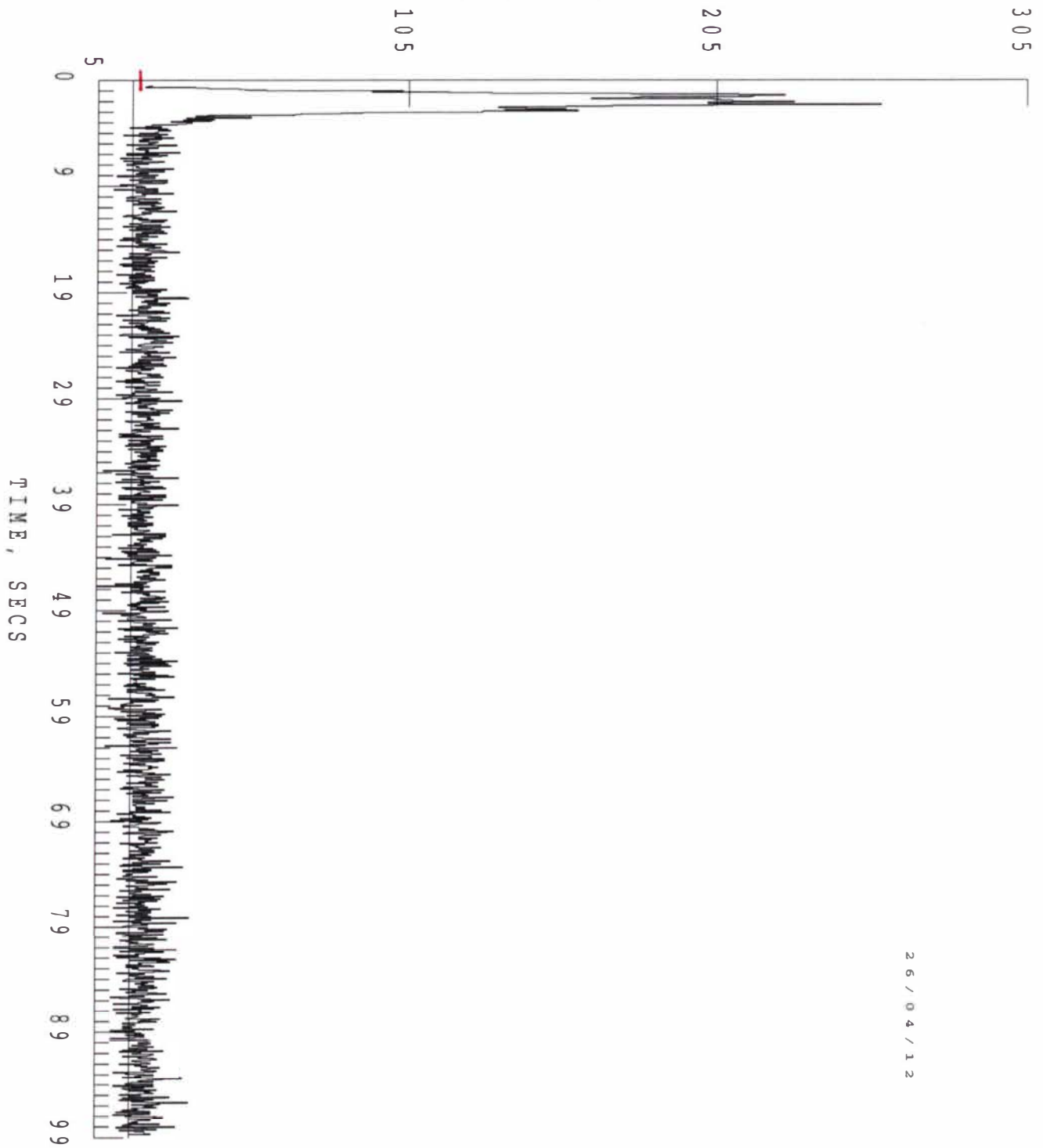
26/04/12

7755.610

A

50 - 200 keV

COUNTS/0.064 S



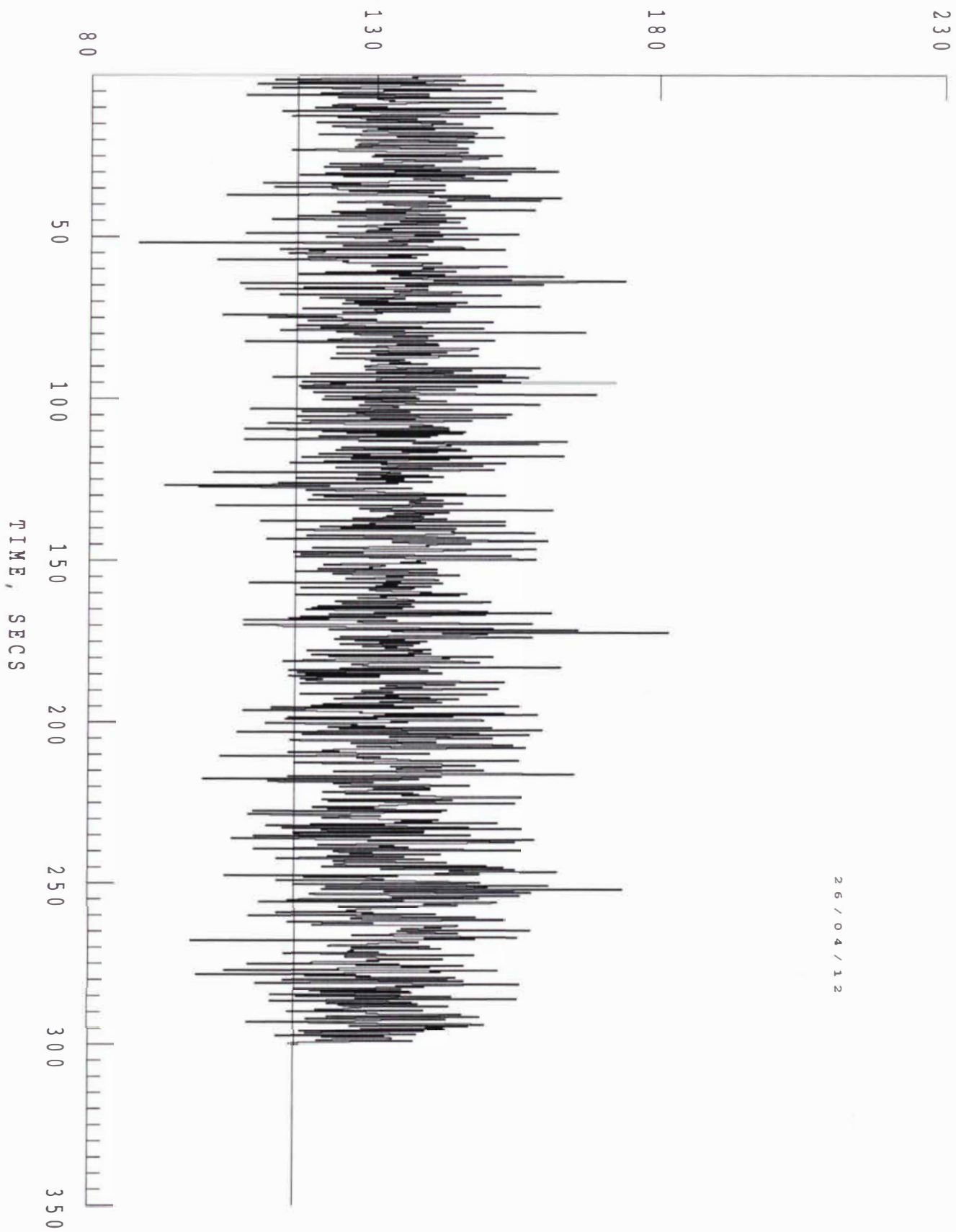
HESSI

26/04/12 7604.000 (GLAST_20120426_07754)

A

25- 150 keV

COUNTS/0.250 S



A

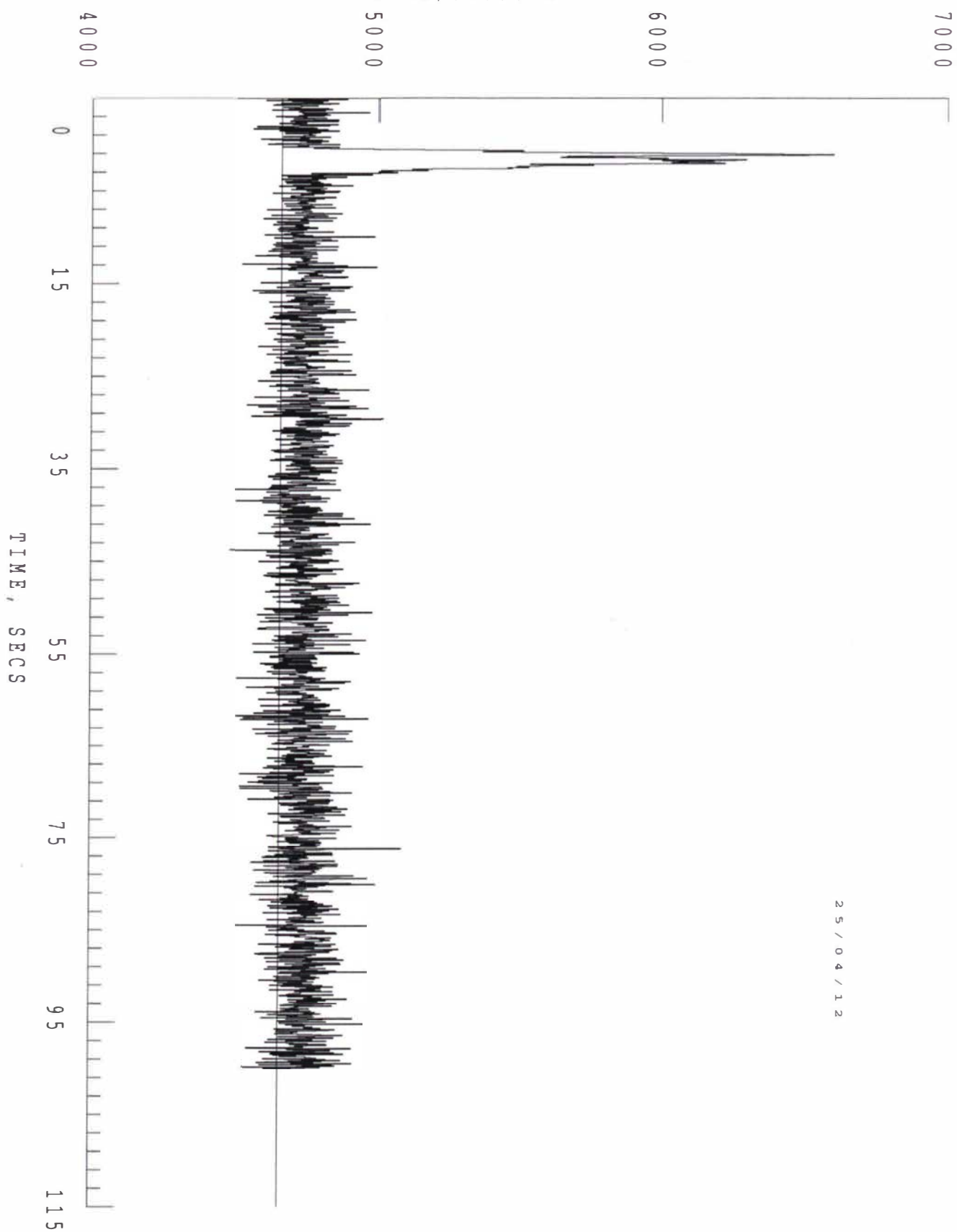
INTEGRAL

26/04/12

7754.250

100-10000 keV

COUNTS/0.050 S



Subject: [lpn] BAT lightcurve for trigger at 120426_0209

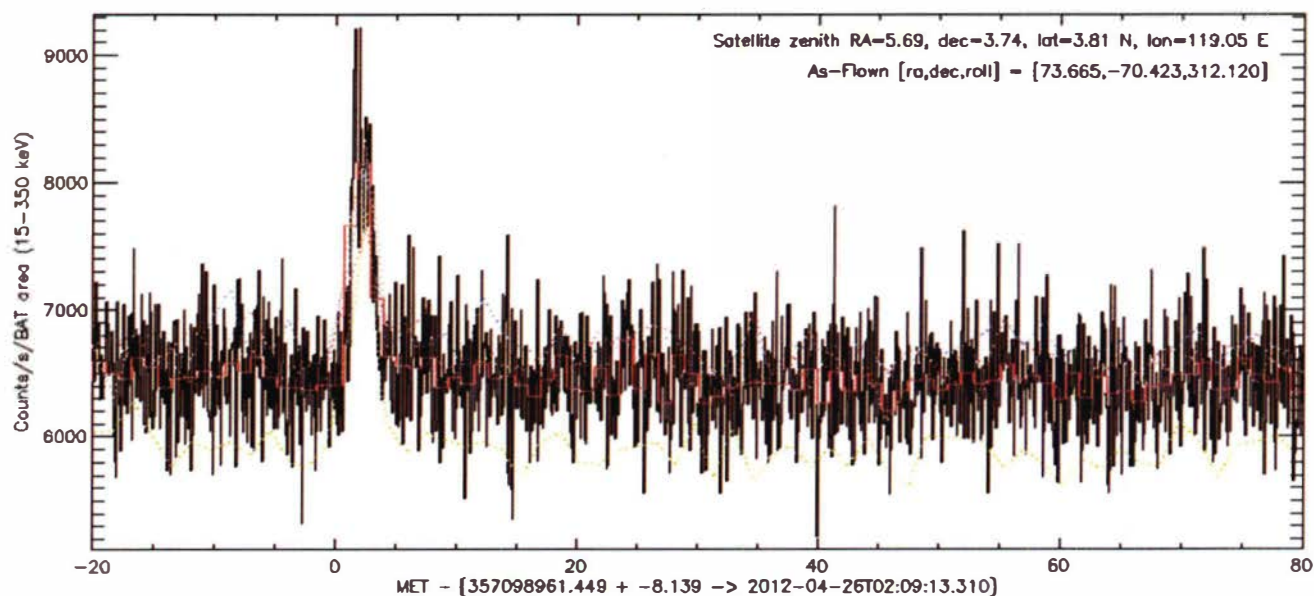
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/26/2012 4:02 AM

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/120426_0209.png



```
% /usr/local/bin/swinfo -o 357098961.449
Time(MET + UTC -> UT): 357098961.449 + -8.139 -> 2012-04-26T02:09:13.310
Swift Zenith(RA,dec): 5.69, 3.74
Swift Location(lon,lat,alt): 119.05 E, 3.81 N, 576 km
Obs Sequence Number: 00032326024
Obs Target Name: Nova LMC 2012
Obs Date and Times: 2012-04-26 02:08:52 - 02:27:51
Obs Pointing(ra,dec,roll): 73.665, -70.423, 312.12
```

--
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>

Attachments:

/tmp/120426_0209_bat64ms_ipn	87.0 KB
/tmp/120426_0209.png	19.8 KB

A

19/07/12

MESSENGER

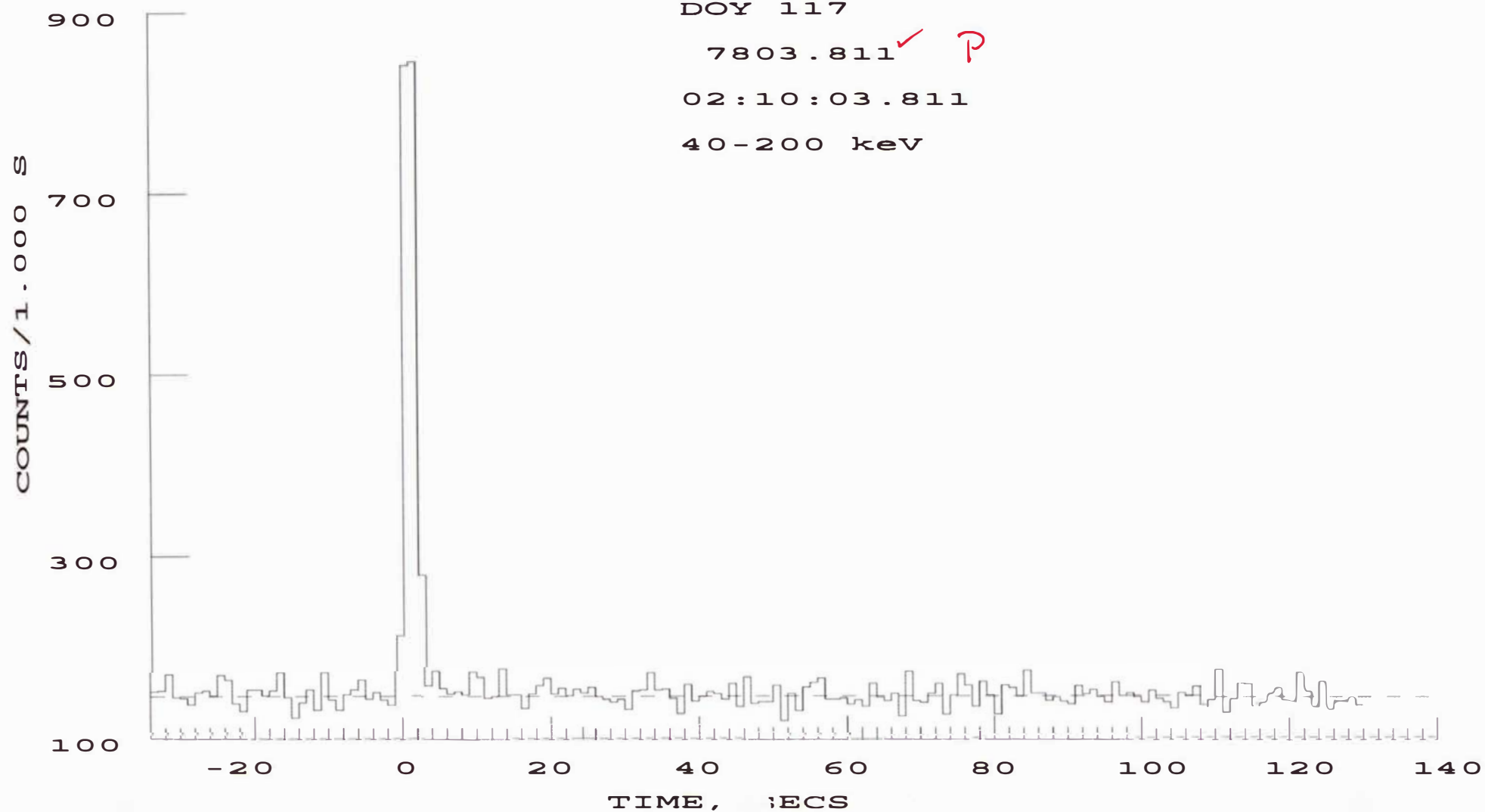
26/04/12

DOY 117

7803.811 ✓ P

02:10:03.811

40-200 keV



A

From ipn-bounces@ssl.berkeley.edu Fri Apr 27 18:59:37 2012
X-Barracuda-Envelope-From: ipn-bounces@ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.146
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.147.252
X-Barracuda-RBL-IP: 128.32.147.252
Date: Sat, 28 Apr 2012 10:59:51 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
To: "Valentin Pal'shin" <val@mail.ioffe.ru>
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
Cc: IPN <ipn@ssl.berkeley.edu>
Subject: Re: [Ipn] bright GRB 120426(A) (=Fermi/GBM trigger 357098956)
X-Ucb-Scan-Signature: 4b8bc524640aabf180dacc8bf8f9ff5bc7684cf8
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

Dear Val and all,

Suzaku saw nothing at this time.

Best wishes,
Kazu

On Thu, 26 Apr 2012 12:18:09 +0400
"Valentin Pal'shin" <val@mail.ioffe.ru> wrote:

> Dear colleagues,
>
> A bright GRB has been detected by Fermi (GBM), INTEGRAL (SPI-ACS), and
> Konus-Wind so far - see the attached figure (at the moment we have
> incomplete KW data, so it is the GBM data shown in the three KW energy
> ranges). The KW trigger time T0(KW)=07755.610 s UT (02:09:15.610).
>
> Any other detections?
>
> Valentin
>
> --
> Valentin Pal'shin
>
> Laboratory for Experimental Astrophysics
> Ioffe Physical Technical Institute
> Russian Academy of Sciences
> 26 Polytekhnicheskaya, St Petersburg 194021,
> Russian Federation
>
> email: val@mail.ioffe.ru
> Tel: (7)-812-2927177
> Fax: (7)-812-2971963
>

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

GLAST

26/04/12

7754.331

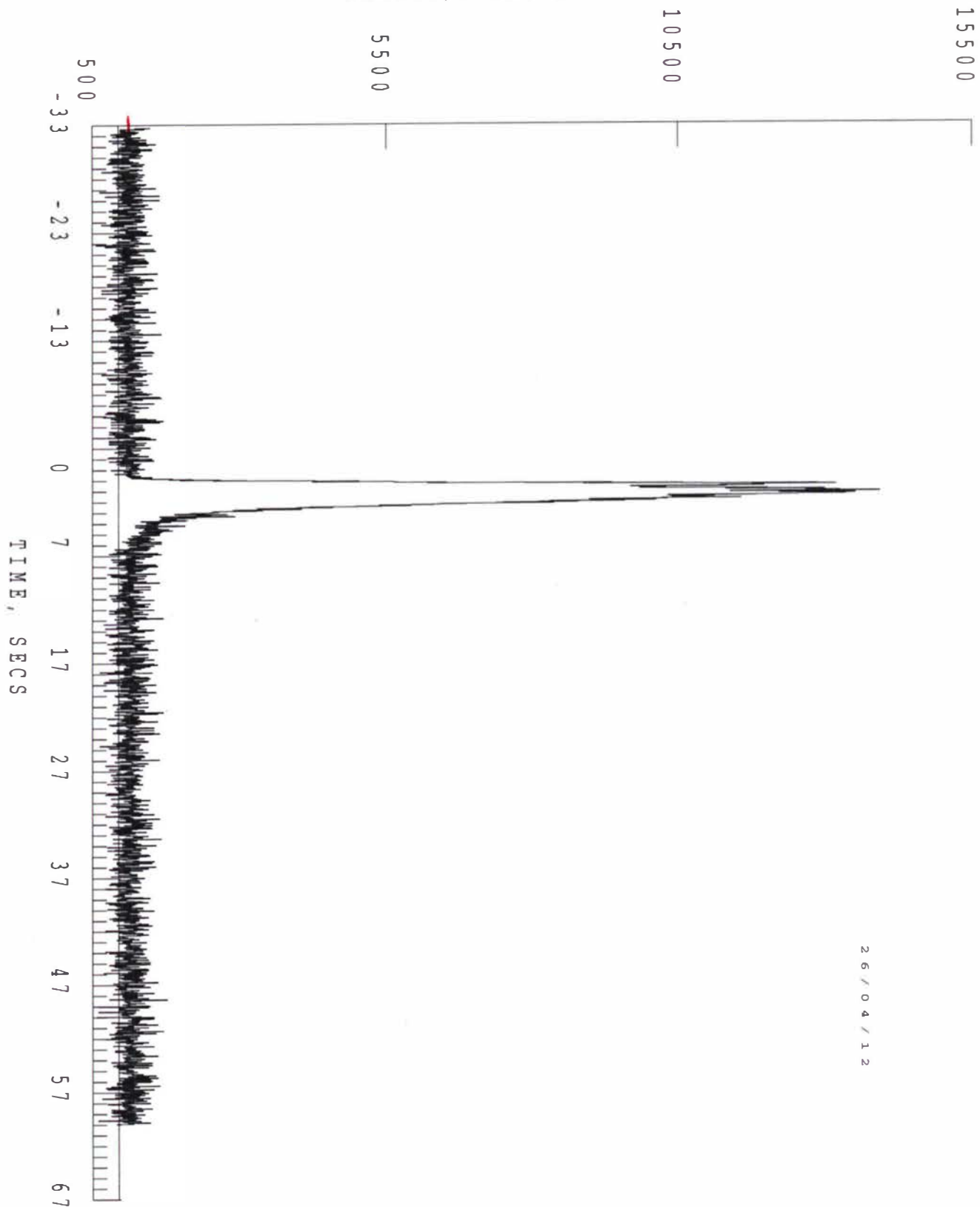
02:09:14

A

26- 293 keV

111.537, -64.37, 0.35

COUNTS/0.032 S



GLAST

26/04/12

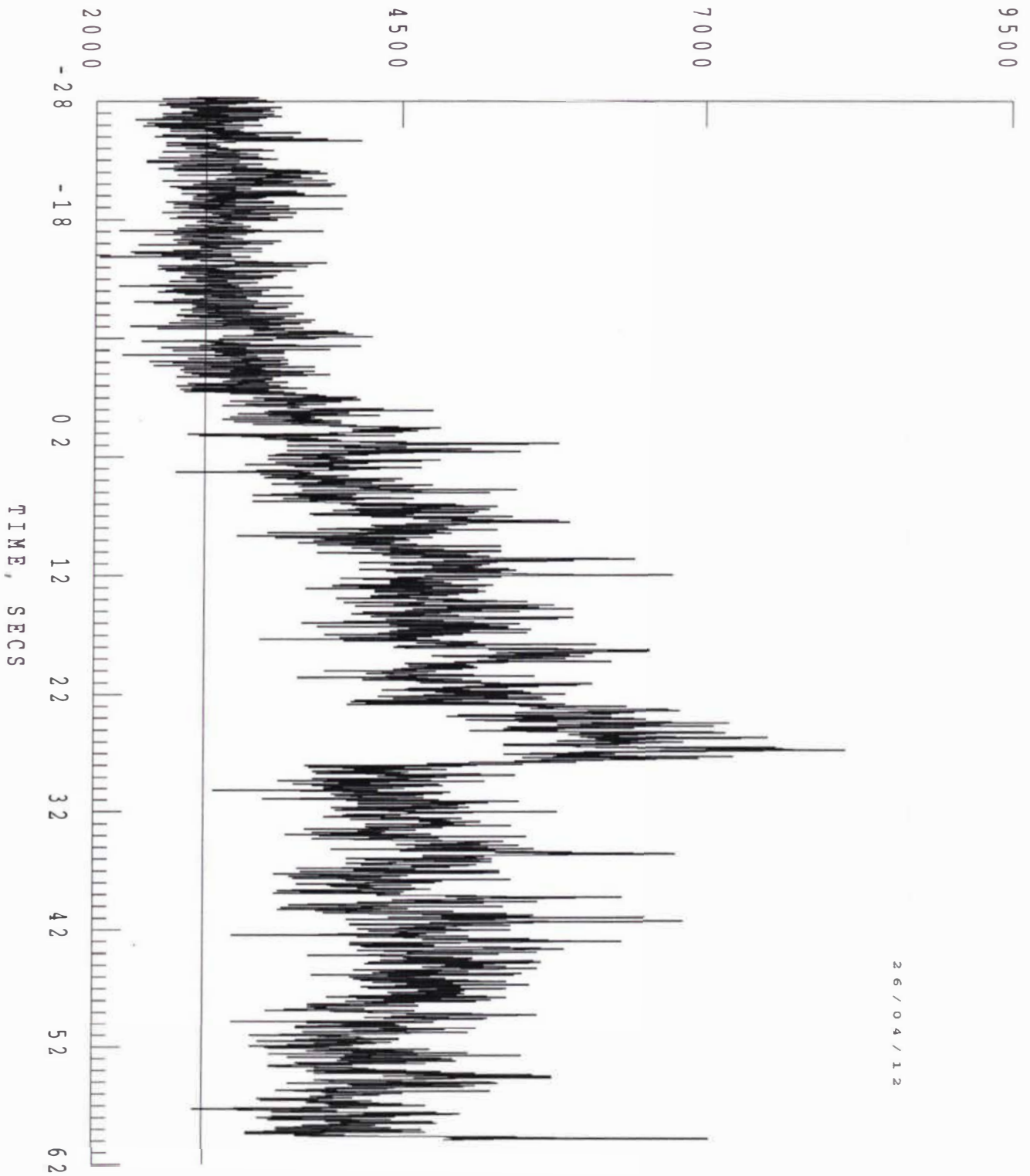
11674.420

B

26 - 293 keV

Particles

COUNTS/0.032 S



MS01

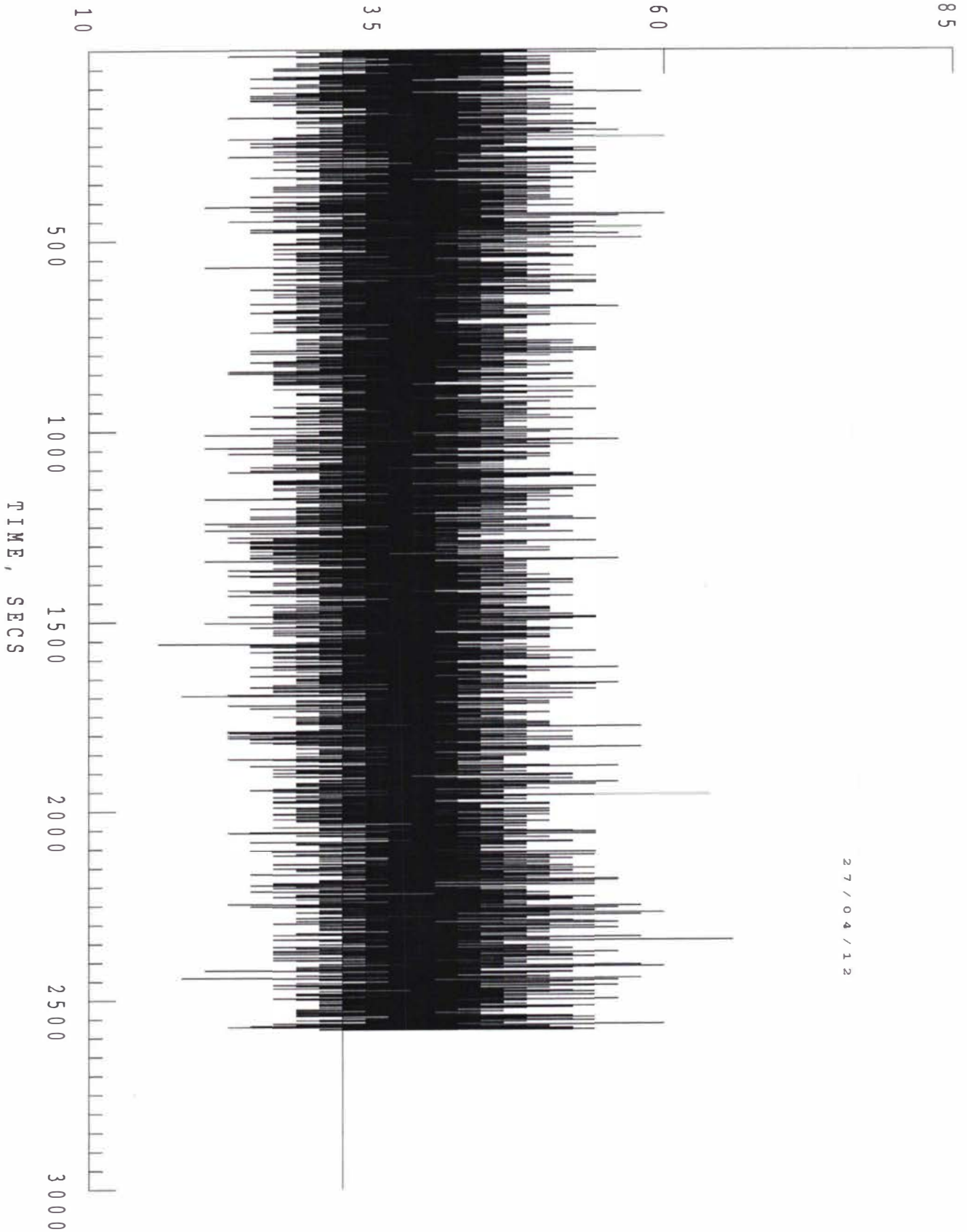
26/04/12

10370.049

B

50 - 3000 keV

COUNTS/0.250 S

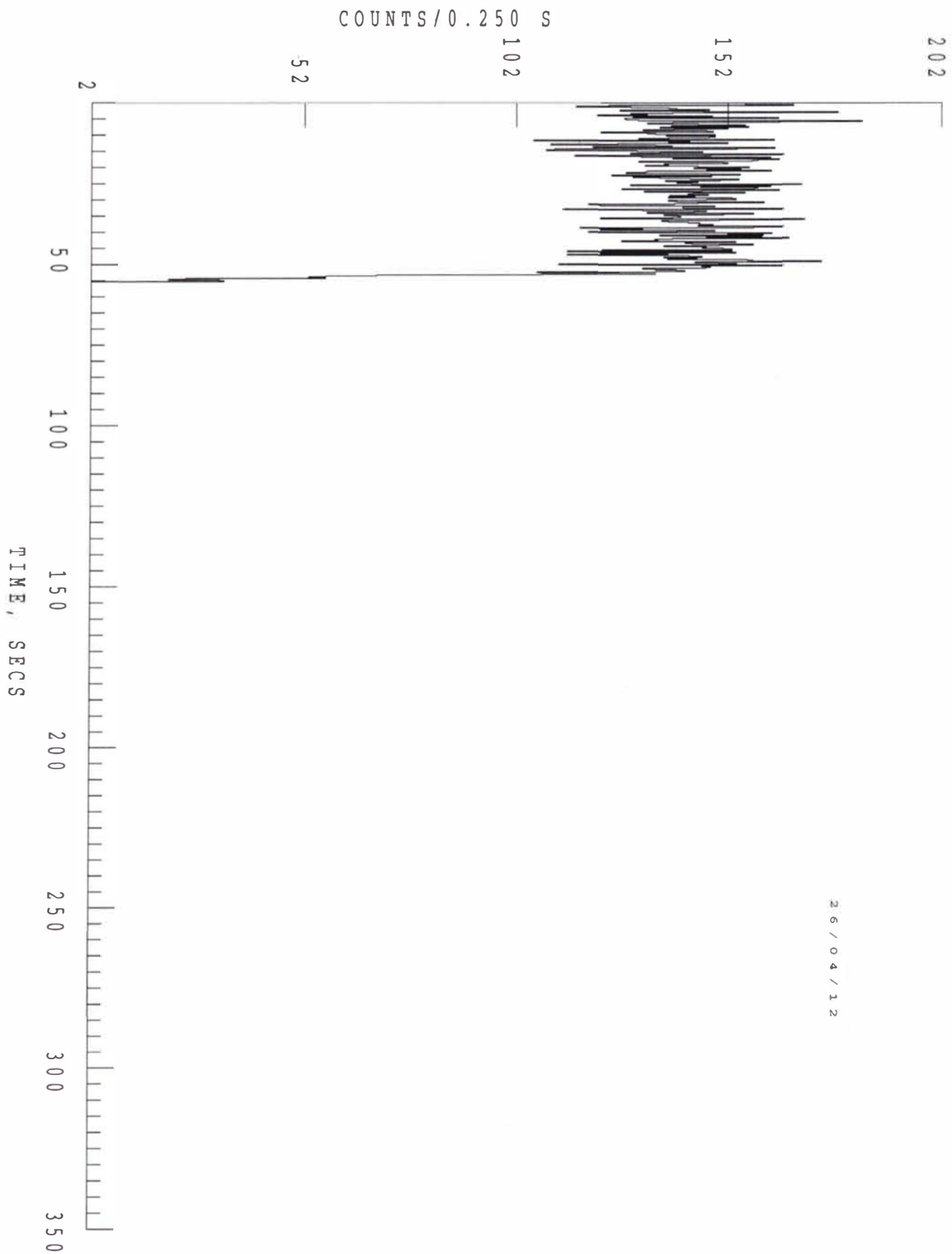


B

HESSI

26/04/12 11524.000 (GLAST_20120426_11674)

25- 150 keV



Subject: [lpn] BAT lightcurve for trigger at 120426_0314

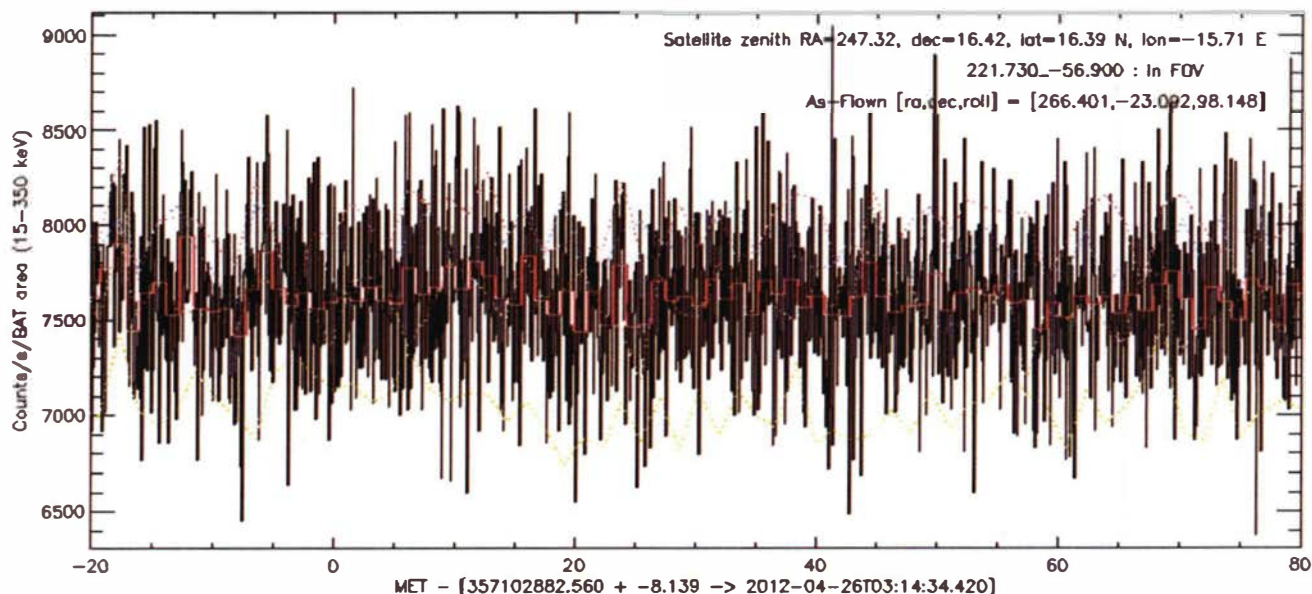
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/26/2012 9:36 AM

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/120426_0314.png



```
% /usr/local/bin/swinfo -o 357102882.559 -s 221.730_-56.900
Time(MET + UTC -> UT):      357102882.560 + -8.139 -> 2012-04-26T03:14:34.420
Swift Zenith(RA,dec):       247.32, 16.42
Swift Location(lon,lat,alt): -15.71 E, 16.39 N, 574 km
Obs Sequence Number:        00032443002
Obs Target Name:            PNV J17452791-2305213
Obs Date and Times:         2012-04-26 03:11:53 - 03:29:49
Obs Pointing(ra,dec,roll):  266.401, -23.092, 98.15
221.730_-56.900_imageloc (boresight_dist, angle): (47, 24)
221.730_-56.900_exposure (cm^2 cos adjusted): 959
221.730_-56.900_altitude: 37 (up)
```

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

Attachments:

/tmp/120426_0314.png	24.0 KB
/tmp/120426_0314_bat64ms_ipn	87.0 KB

GLAST

26/04/12

50542.355

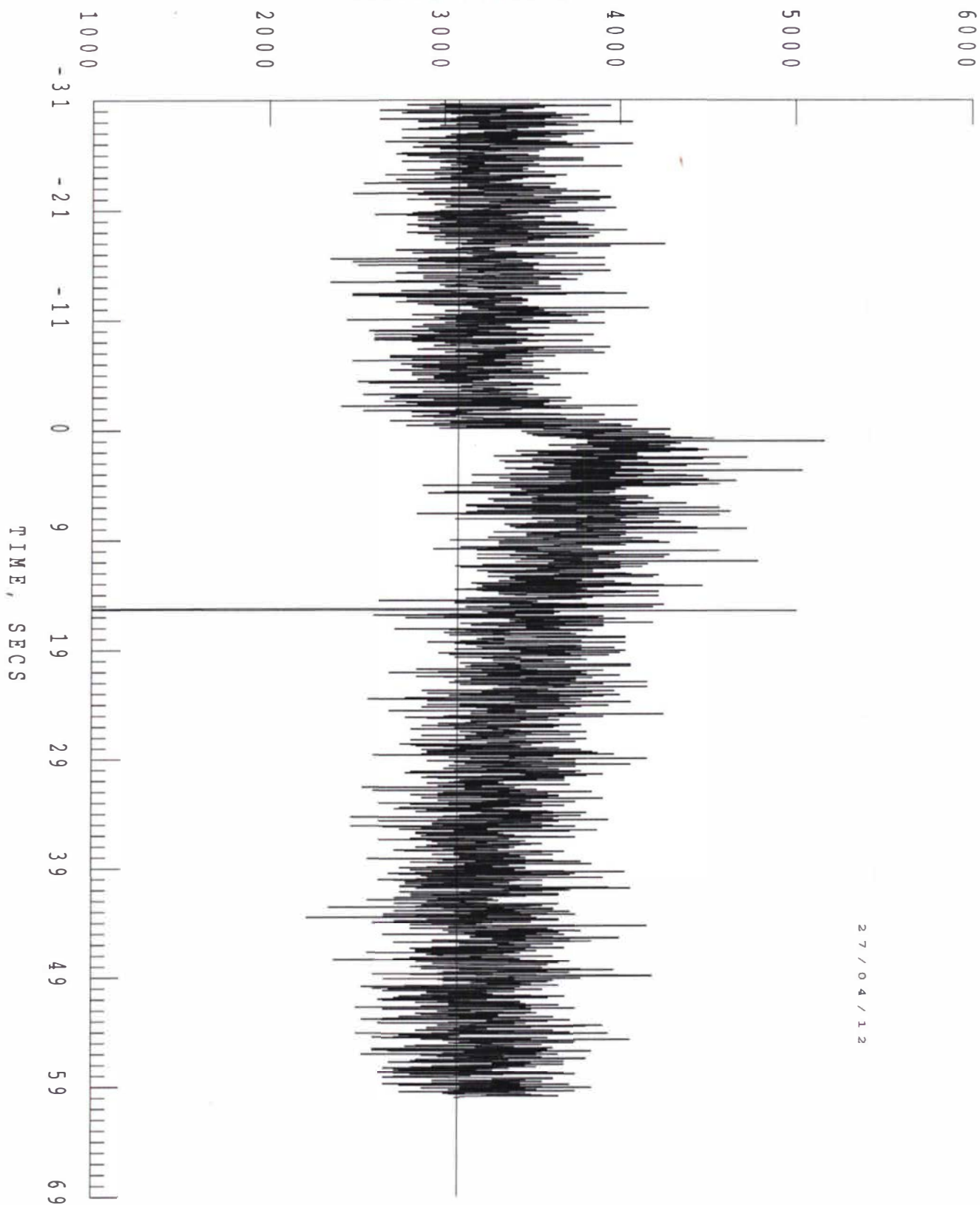
14:02:22

C

26- 293 keV

285.49, -12.32, 3.83

COUNTS/0.032 S



27/04/12

MS01

26/04/12

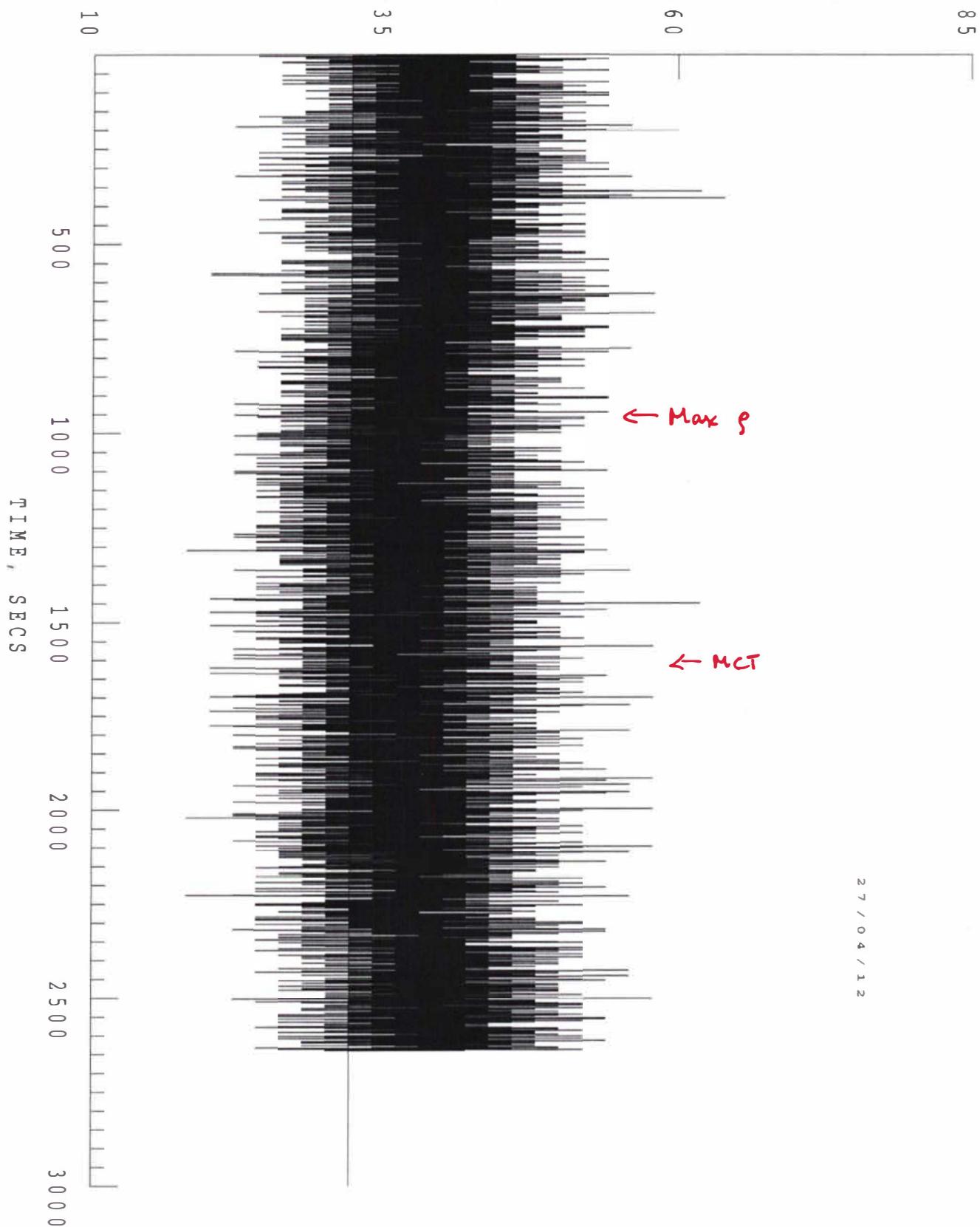
49189.356

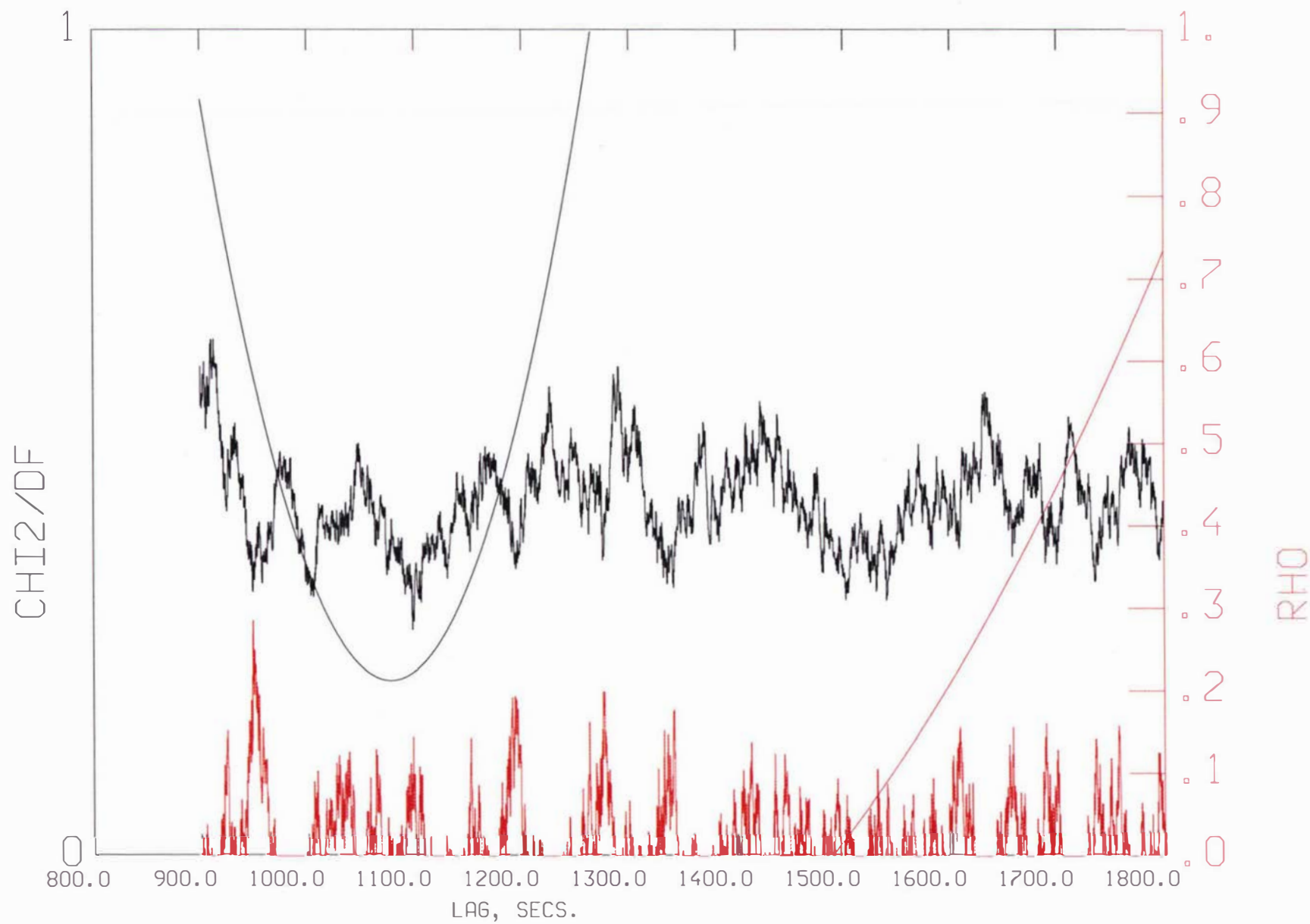
C

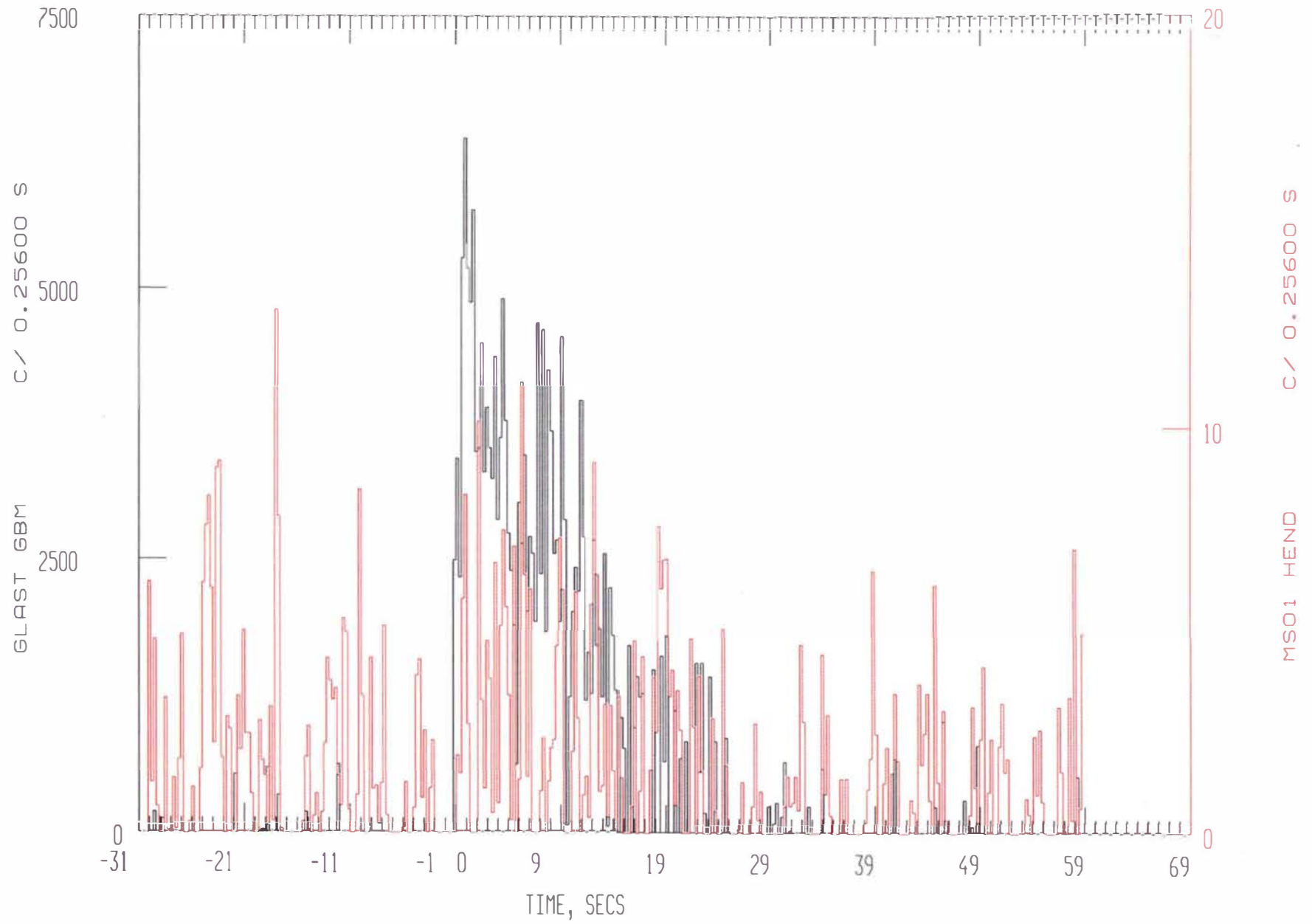
50 - 3000 keV

Unoculted

COUNTS/0.250 S





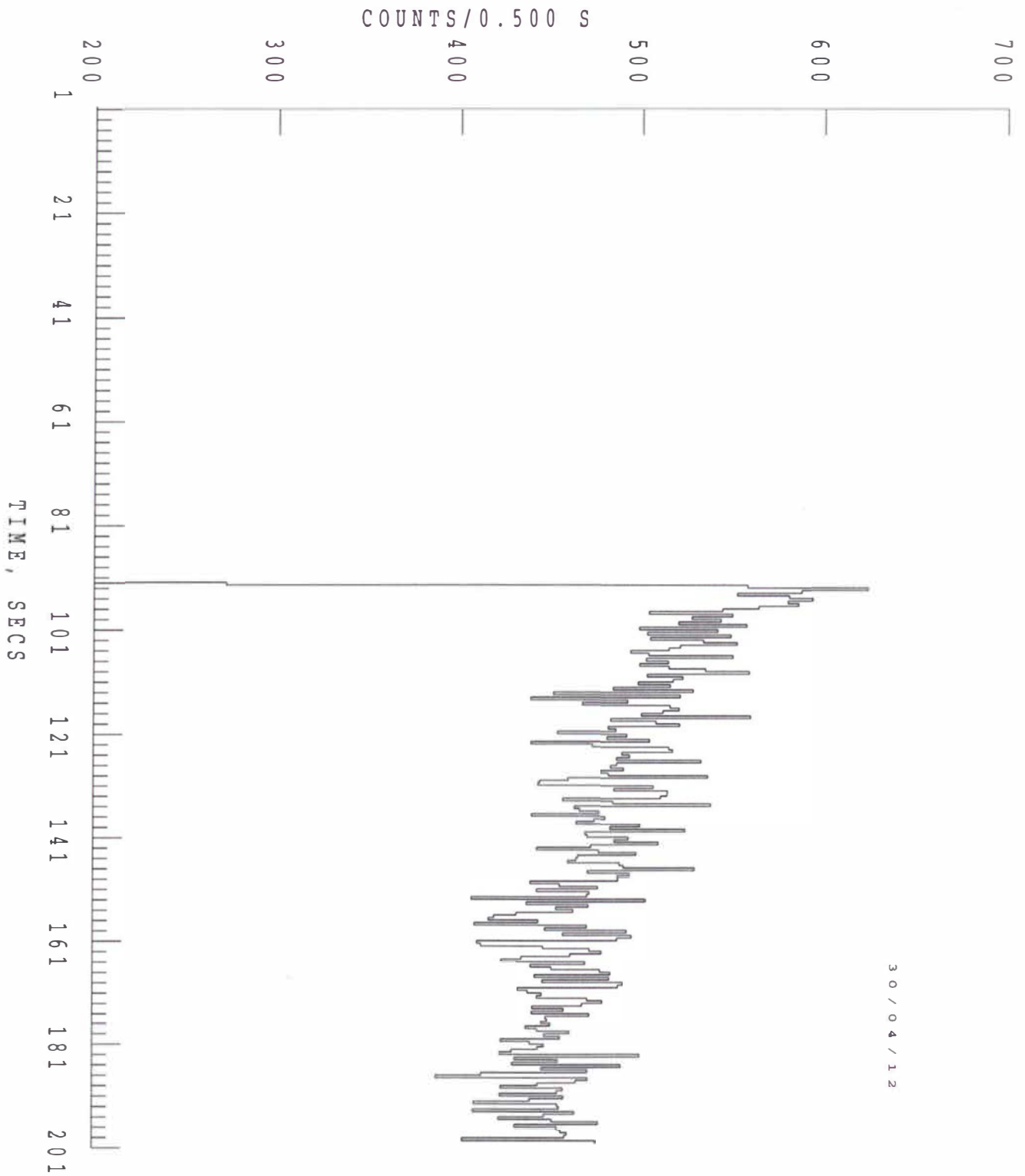


HESSI

26/04/12 50442.000 (FERMI_20120426_50542)

25- 150 keV

C



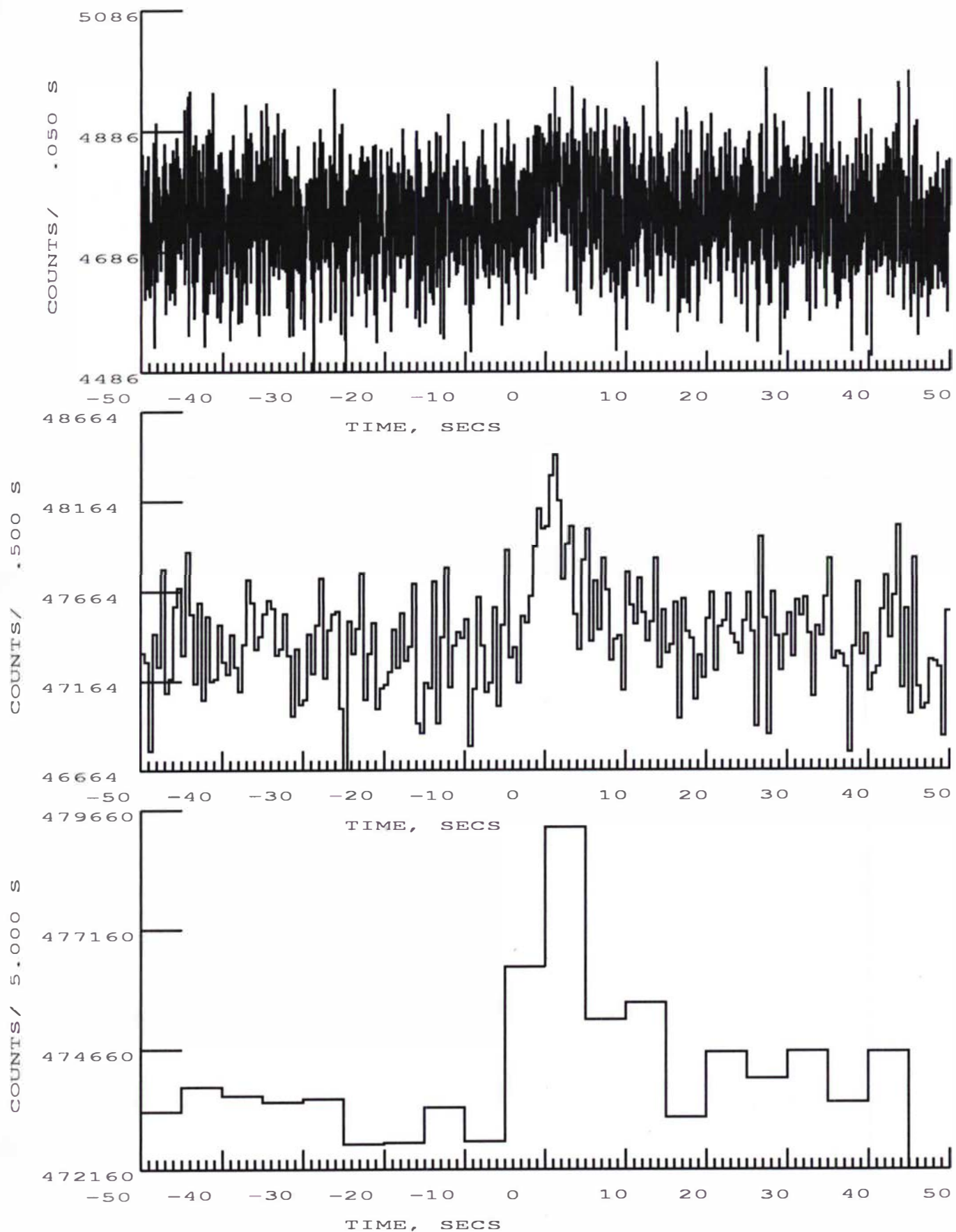
INTEGRAL

26/04/12

50542.000

14:02:22.0

22/01/14



C

Subject: [lpn] BAT lightcurve for trigger at 120426_1402

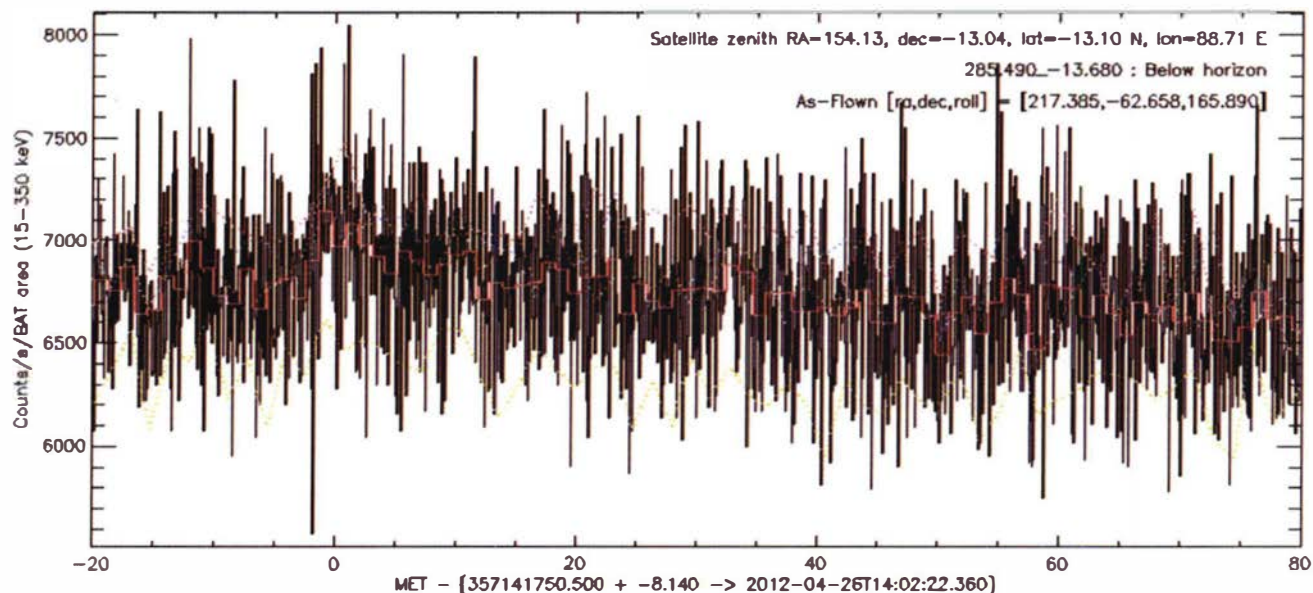
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/26/2012 12:38 PM

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/120426_1402.png



```
% /usr/local/bin/swinfo -o 357141750.500 -s 285.490_-13.680
Time(MET + UTCF -> UT):      357141750.500 + -8.140 -> 2012-04-26T14:02:22.360
Swift Zenith(RA,dec):        154.13, -13.04
Swift Location(lon,lat,alt):   88.71 E, -13.10 N, 591 km
Obs Sequence Number:          00031676012
Obs Target Name:               Proxima Cen
Obs Date and Times:            2012-04-26 13:51:53 - 14:12:49
Obs Pointing(ra,dec,roll):     217.385, -62.658, 165.89
285.490_-13.680_imageloc (boresight_dist, angle): (68, -179)
285.490_-13.680_exposure (cm2 cos adjusted): 0
285.490_-13.680_altitude: -11 (down)
```

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

Attachments:

/tmp/120426_1402.png	23.5 KB
/tmp/120426_1402_bat64ms_ipn	87.0 KB

Subject: [lpn] BAT lightcurve for trigger at 120426_1706

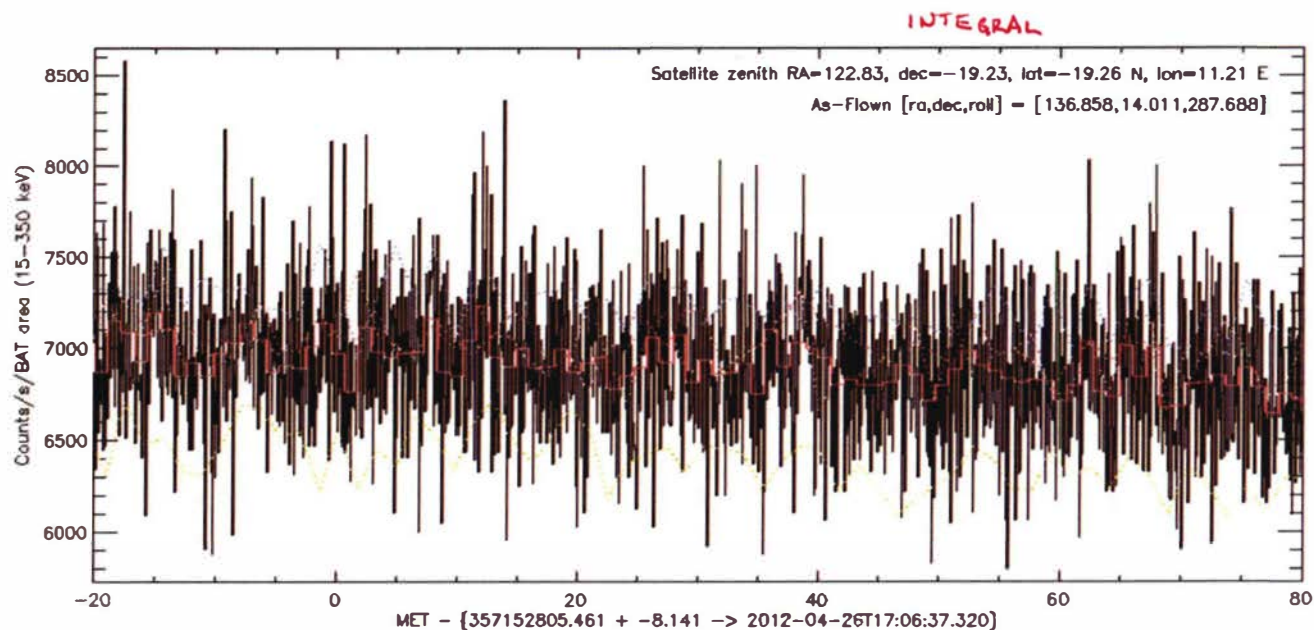
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/26/2012 9:20 PM

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/120426_1706.png



```
% /usr/local/bin/swinfo -o 357152805.461
Time(MET + UTC -> UT):      357152805.461 + -8.141 -> 2012-04-26T17:06:37.320
Swift Zenith(RA,dec):       122.83, -19.23
Swift Location(lon,lat,alt): 11.21 E, -19.26 N, 593 km
Obs Sequence Number:        00520658007
Obs Target Name:            GRB 120422A
Obs Date and Times:         2012-04-26 17:02:53 - 17:08:17
Obs Pointing(ra,dec,roll):  136.858, 14.011, 287.69
```

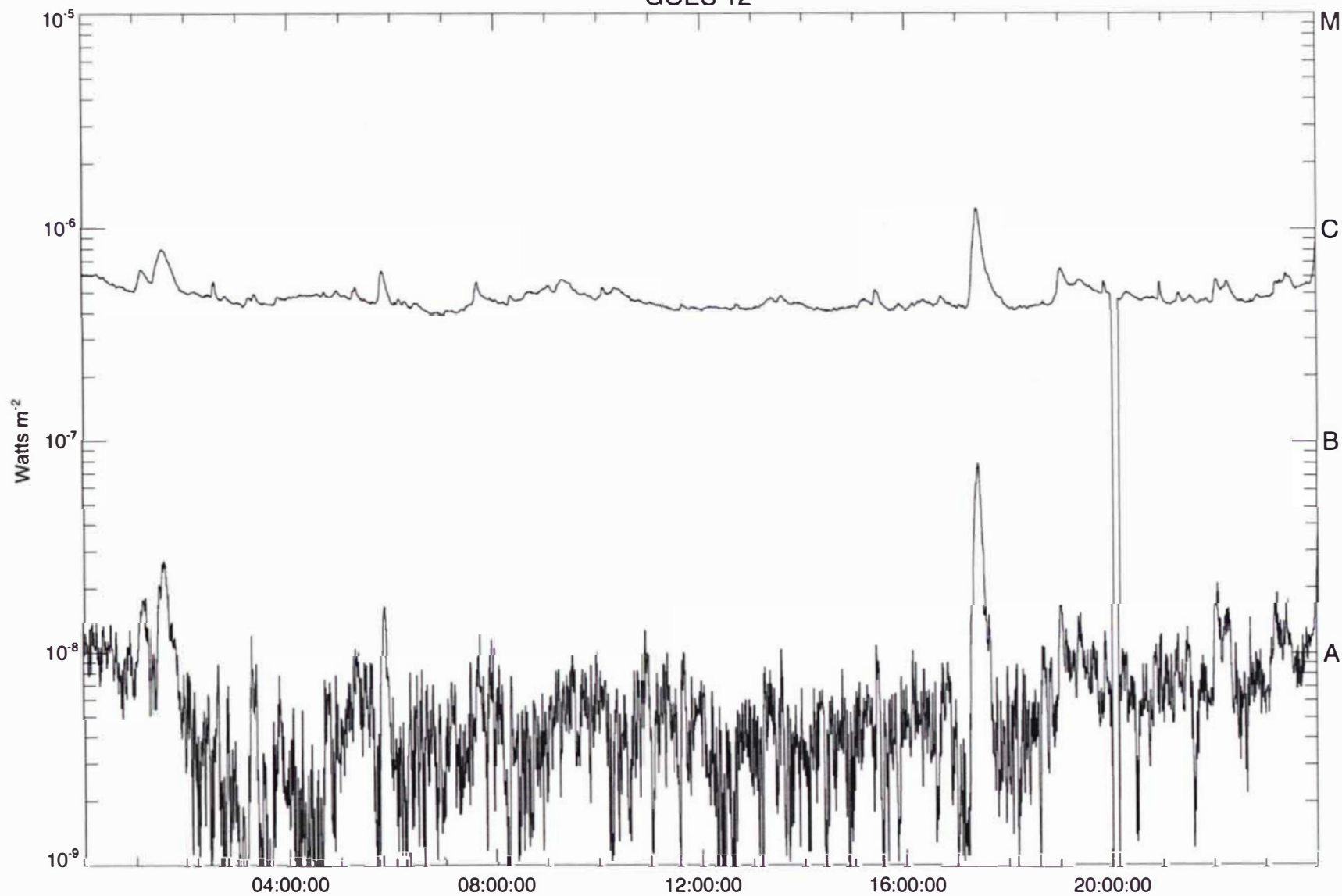
--
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)
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lpn mailing list
lpn@ssl.berkeley.edu
<http://lists.ssl.berkeley.edu/mailman/listinfo/lpn>

Attachments:

/tmp/120426_1706_bat64ms_ipn	87.1 KB
/tmp/120426_1706.png	22.4 KB

GOES 12



Data Start: 12/04/26, 0000:10

Plot created: 12/04/29, 0845

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

Date: 8 Aug 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?

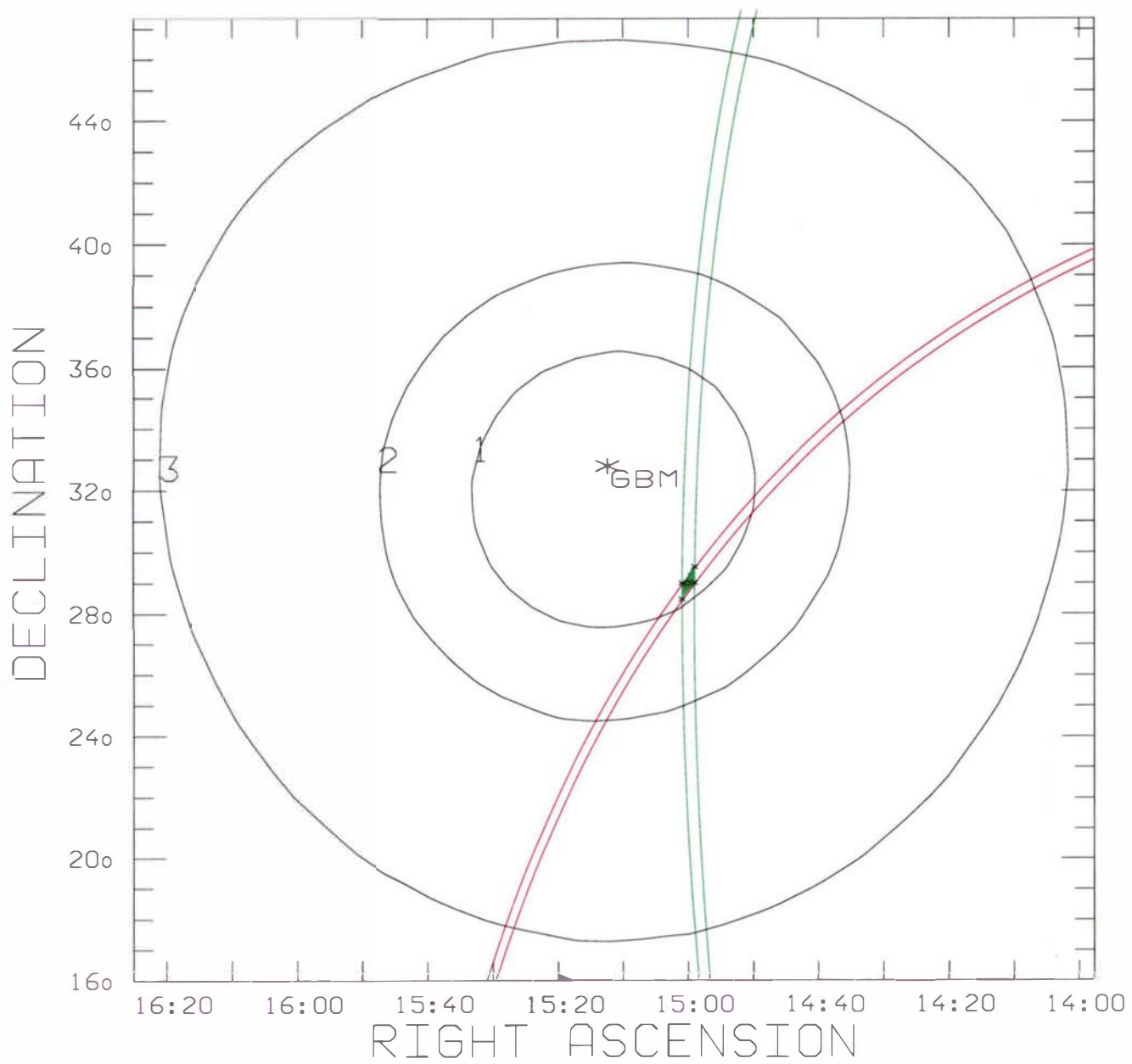
7. For INTEGRAL events

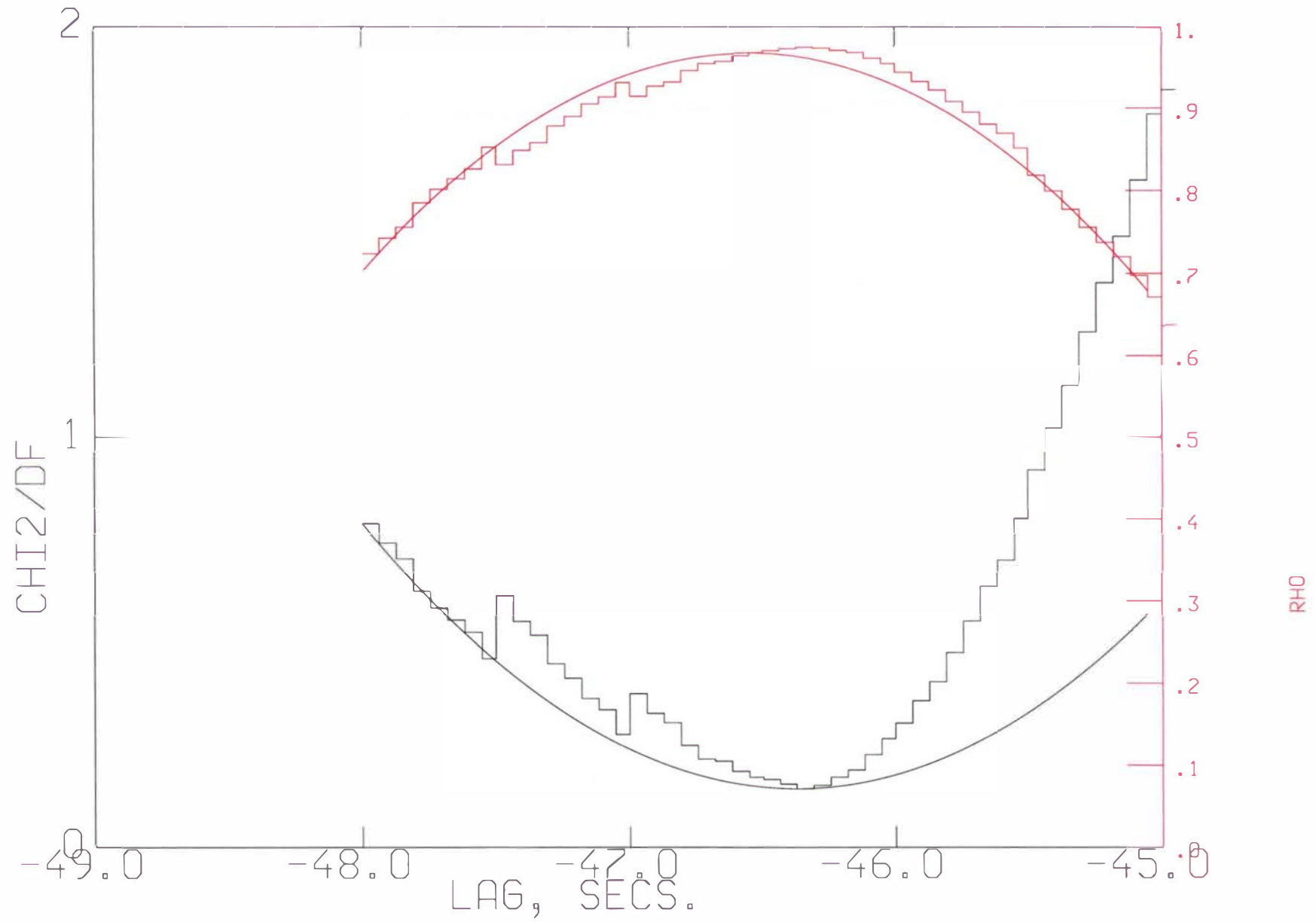
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?
- ☐ Hand-extracted data used (record starts at -30.000 s)?
-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

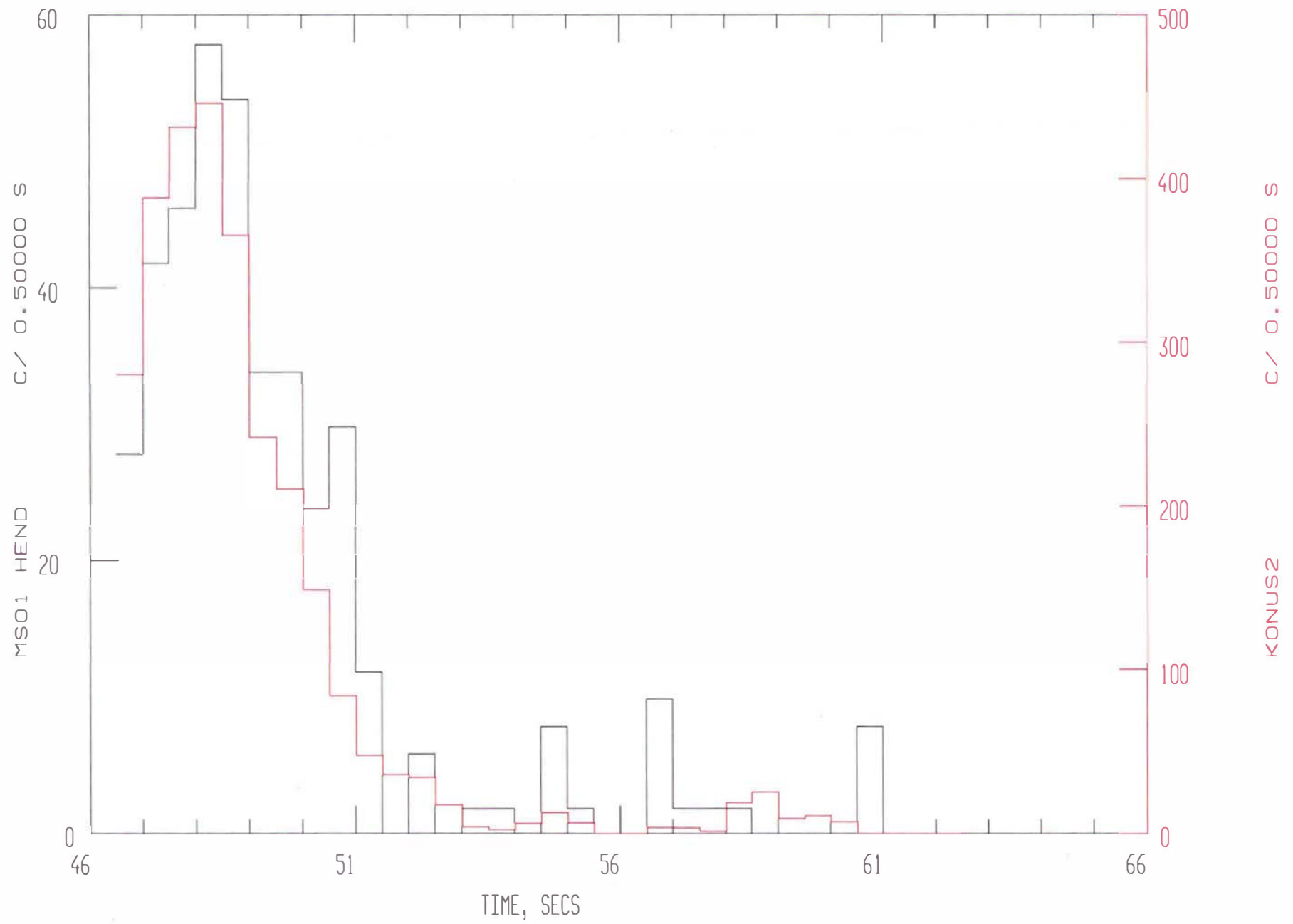
-
- ☒ ACCESS and MBL4 databases updated, with identical times?

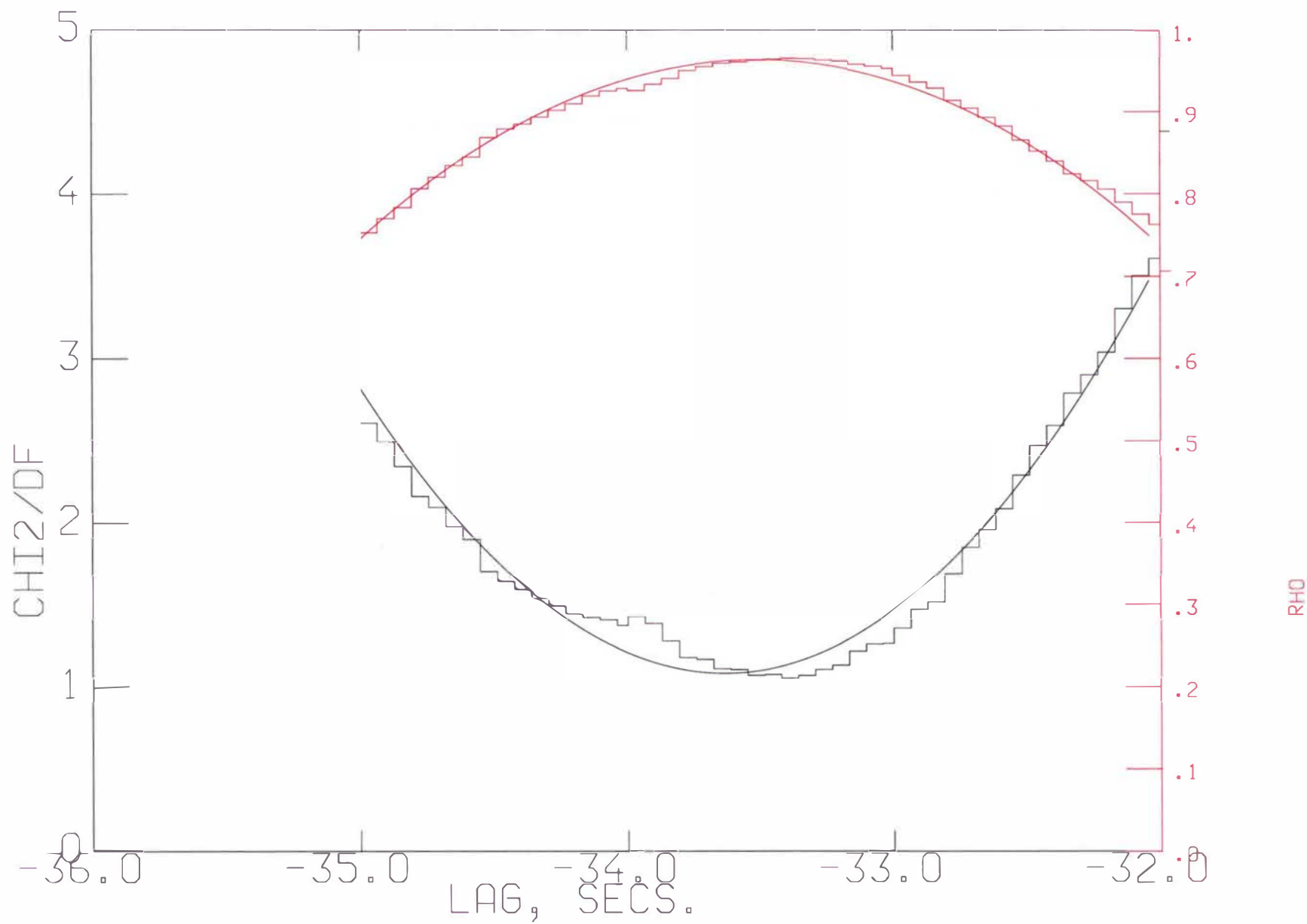
GRB120427 ~04647 S

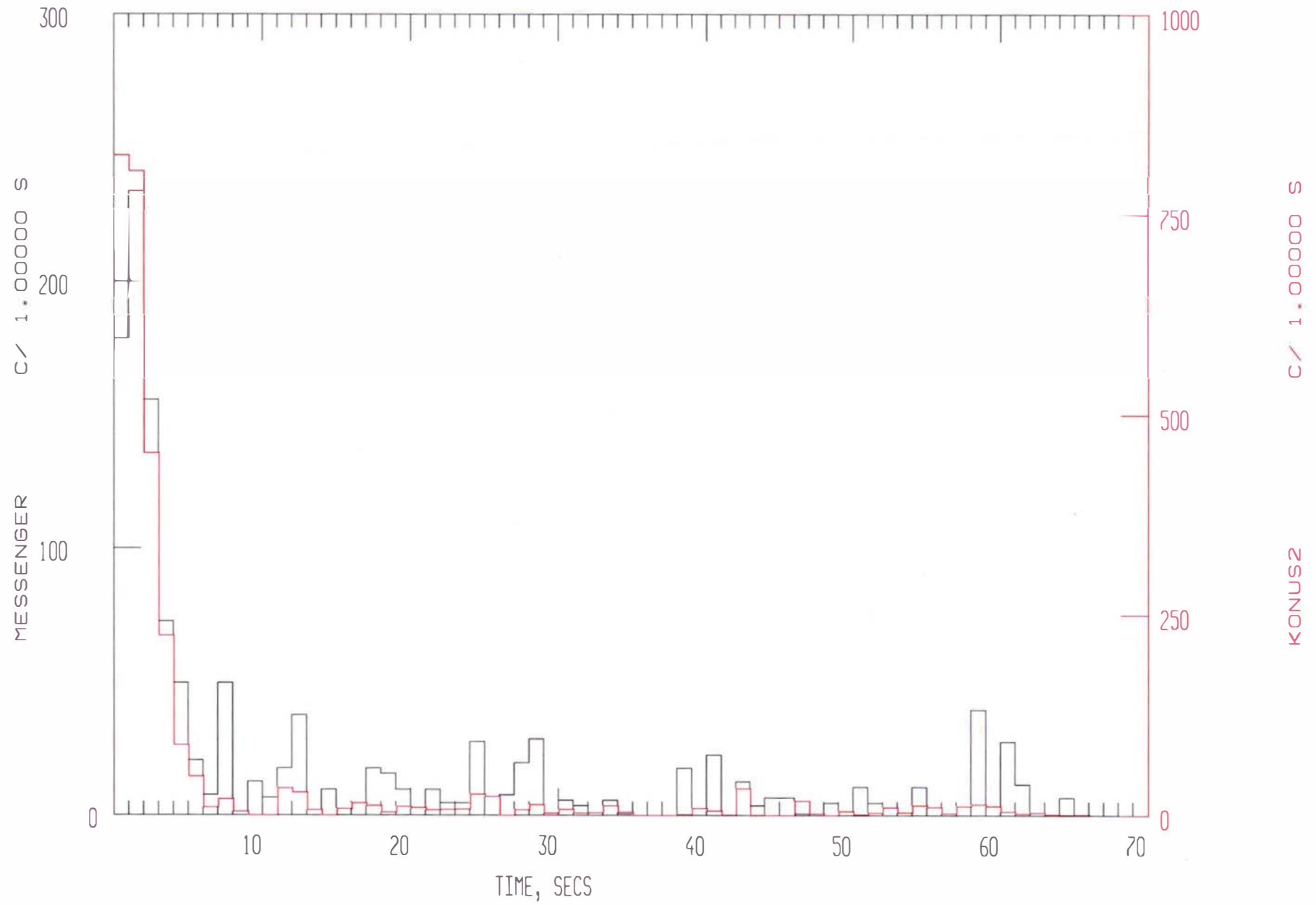
08/08/2016











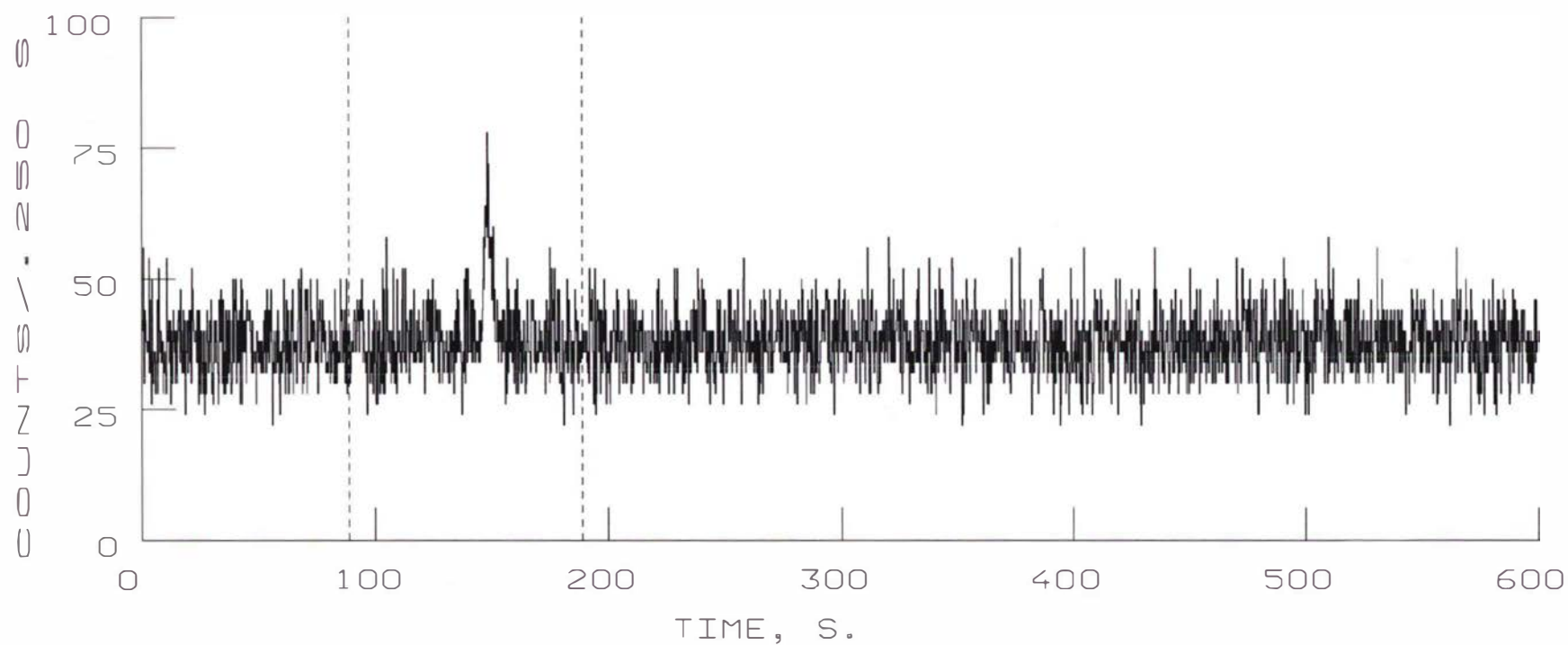
MS01 HEND

08/08/2016

27/04/2012 4308.604 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



KONUS2

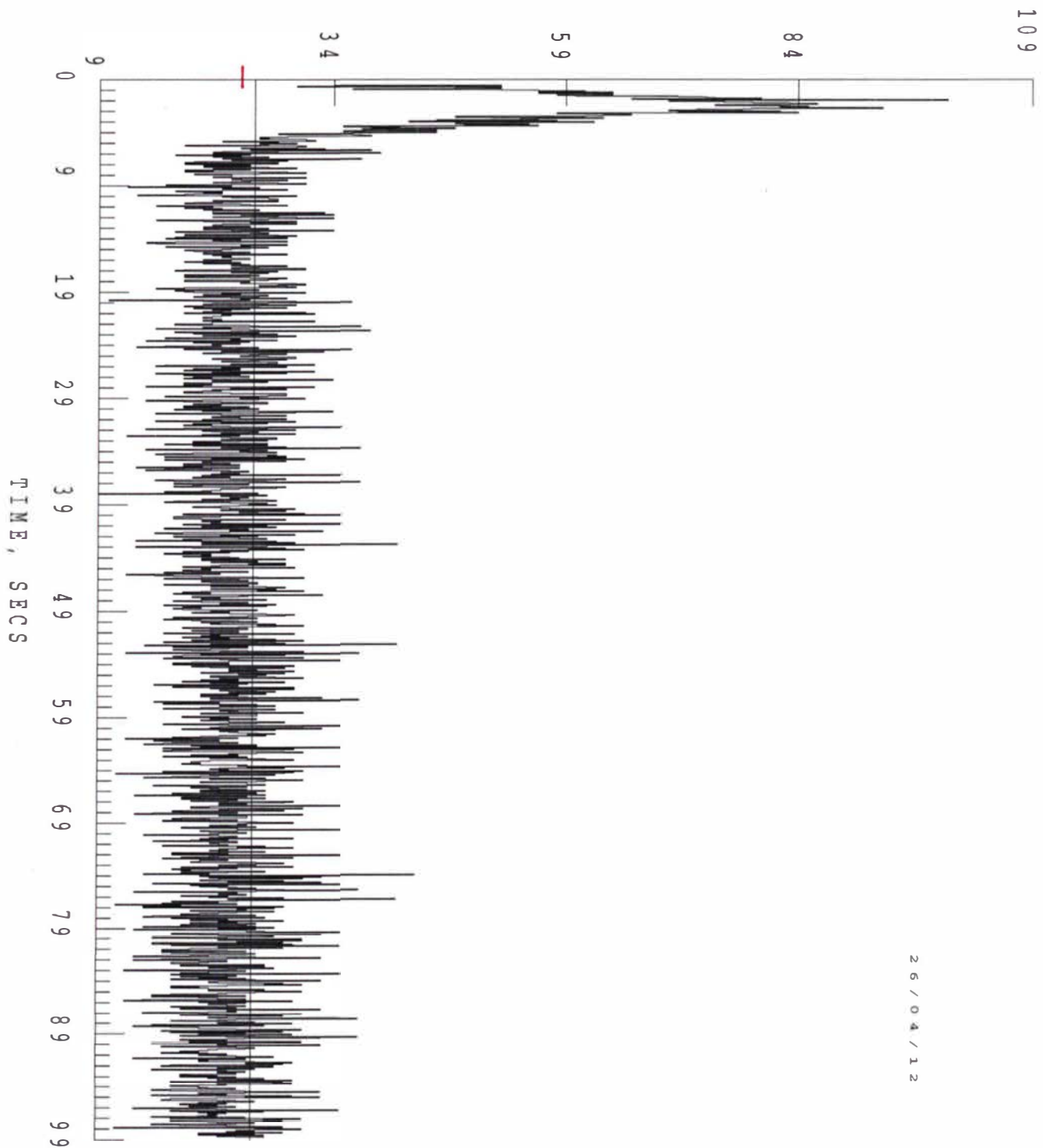
27/04/12

4651.927

50 - 200 keV

A

COUNTS/0.064 S



26/04/12

MS01

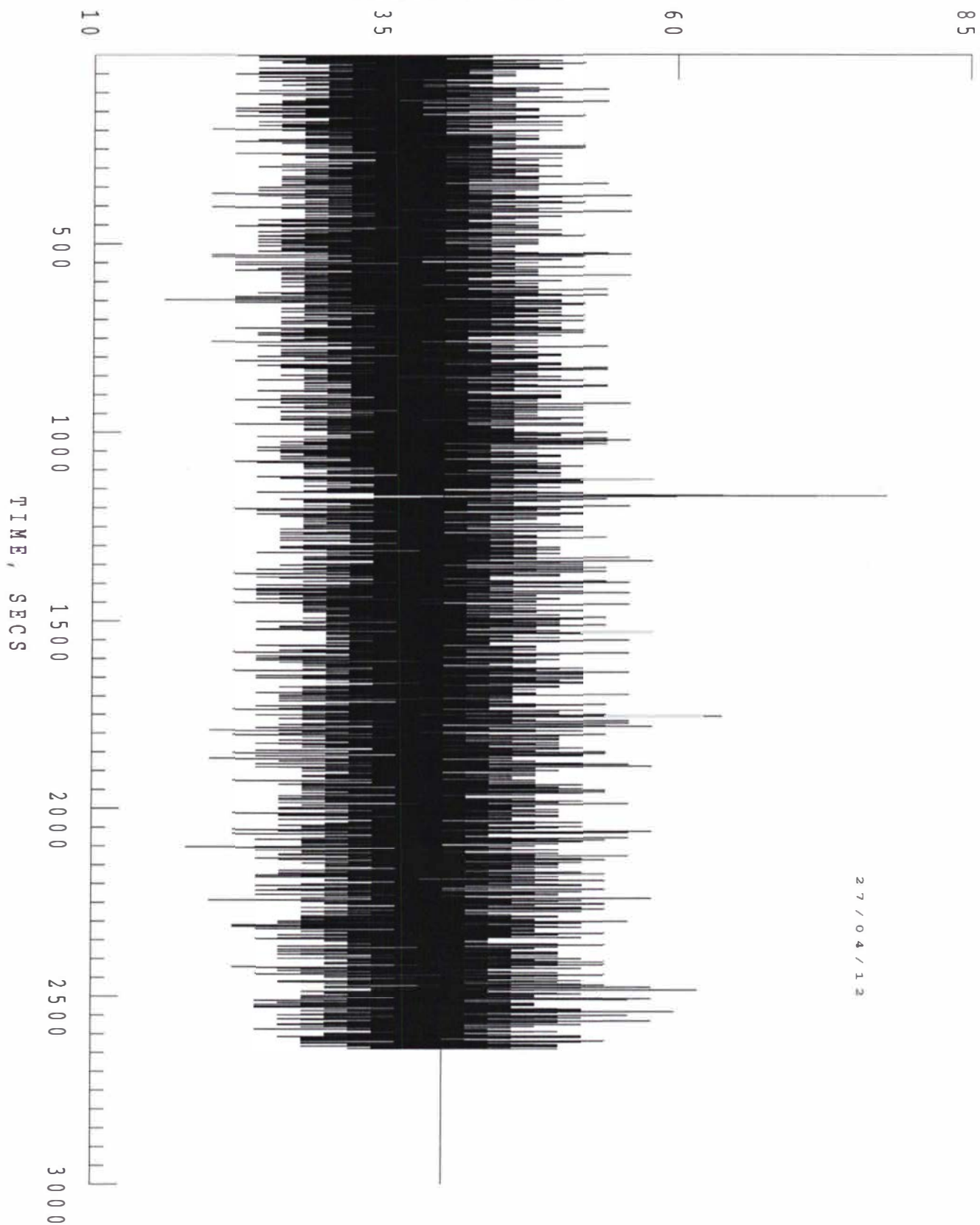
27/04/12

3288.625

A

50 - 3000 keV

COUNTS/0.250 S



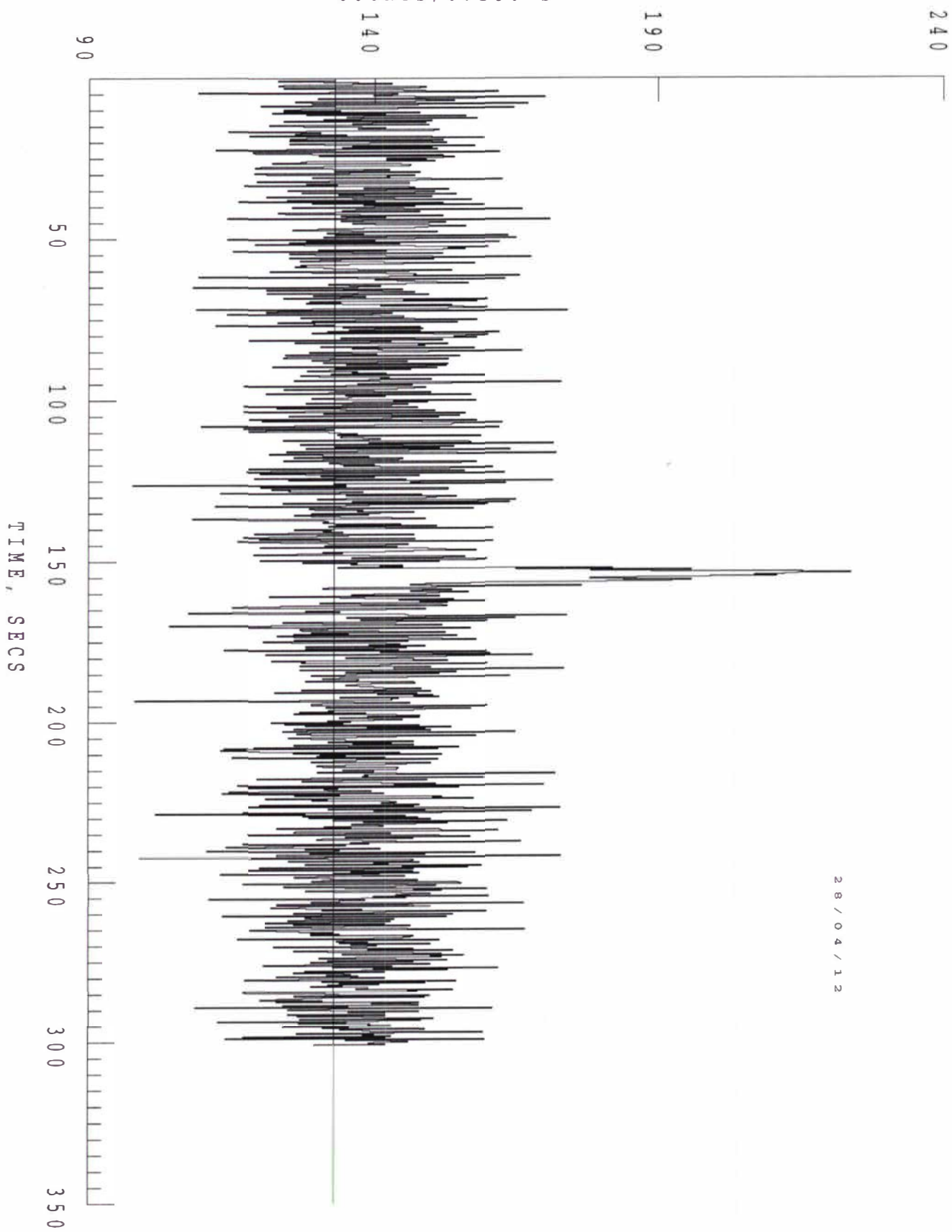
HESSI

27/04/12 4496.000 (SUZAKU_20120427_04647)

A

25 - 150 keV

COUNTS/0.250 S



INTEGRAL

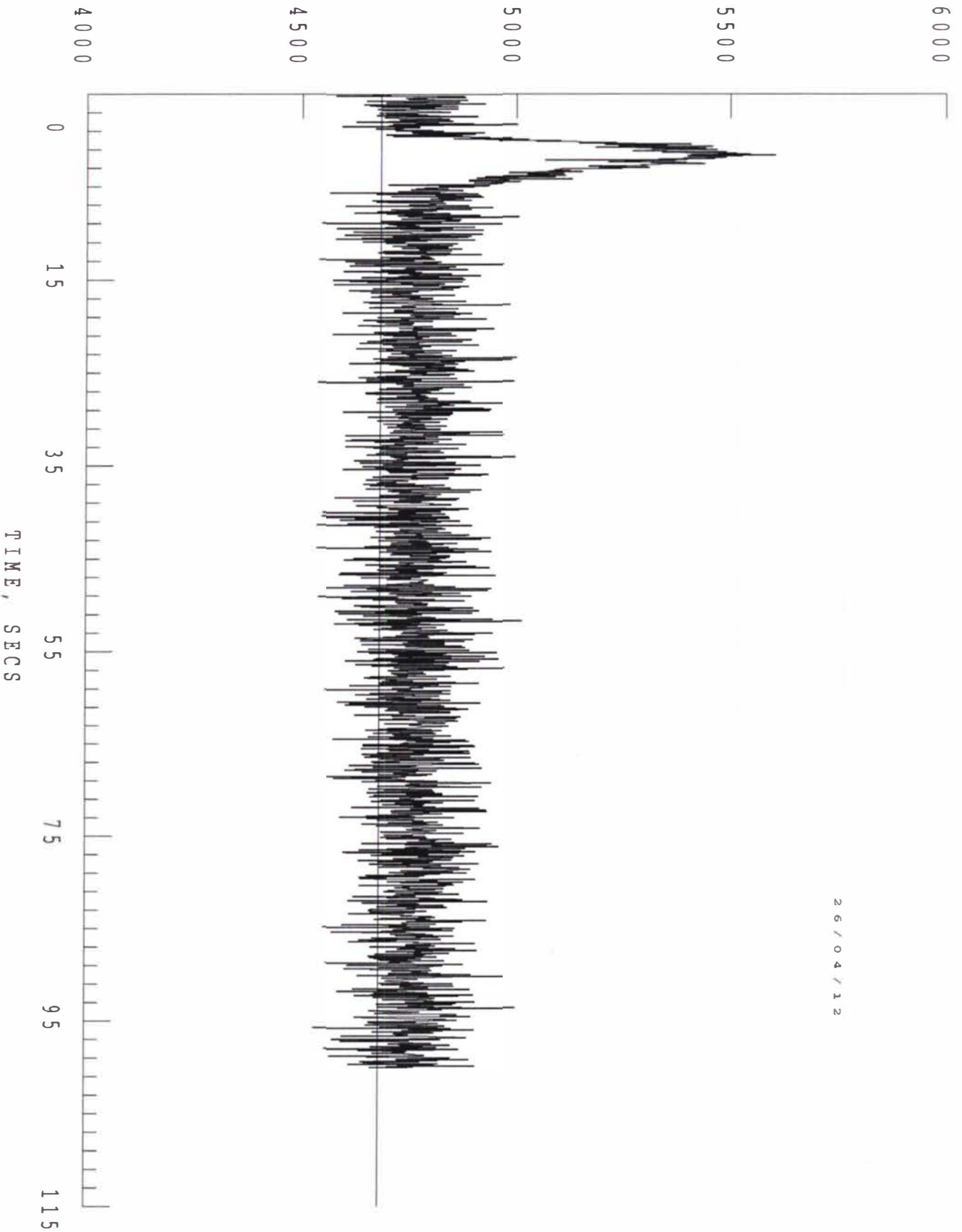
27/04/12

4647.658

A

100-10000 keV

COUNTS/0.050 S



Subject: [lpn] BAT lightcurve for trigger at 120427_0117

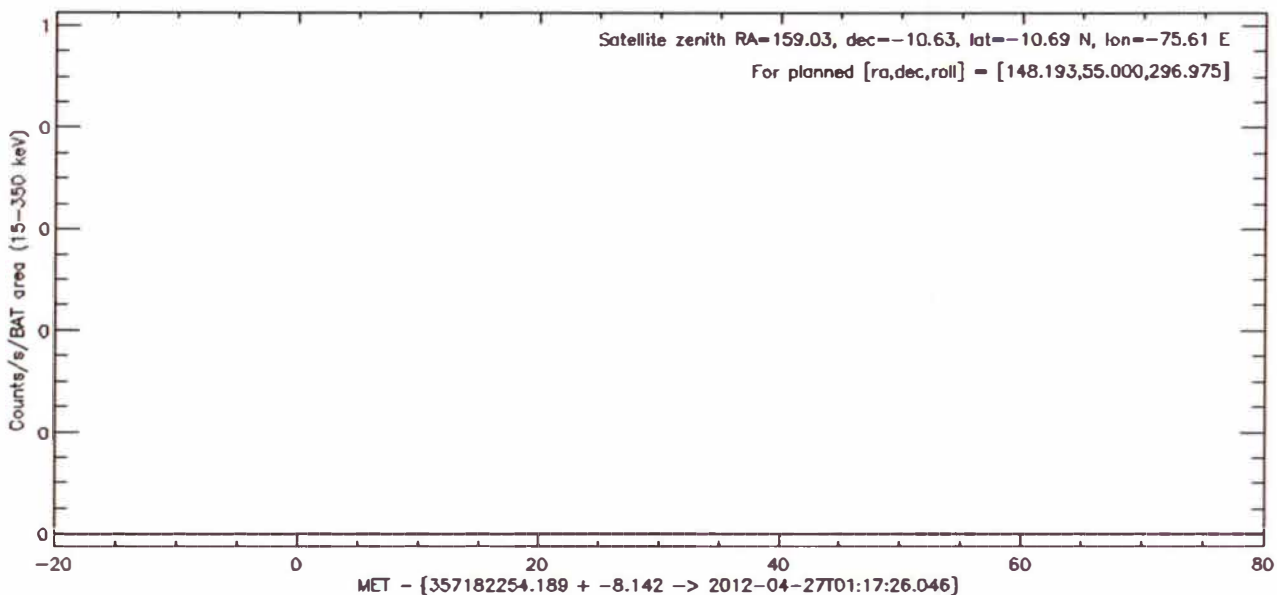
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/27/2012 2:25 AM

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/120427_0117.png



```
% /usr/local/bin/swinfo -o 357182254.188
Time(MET + UTC -> UT):      357182254.189 + -8.142 -> 2012-04-27T01:17:26.046
Swift Zenith(RA,dec):       159.03, -10.63
Swift Location(lon,lat,alt): -75.61 E, -10.69 N, 591 km
Obs Sequence Number:        00074863011
Obs Target Name:             saa-cold-118-00 (planned)
Obs Date and Times:          2012-04-27 01:04:51 - 01:25:51
Obs Pointing(ra,dec,roll):   148.193, 55.000, 296.98
```

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

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

Attachments:

/tmp/120427_0117_bat64ms_ipn	87.0 KB
/tmp/120427_0117.png	5.5 KB

A

19/07/12

MESSENGER

27/04/12

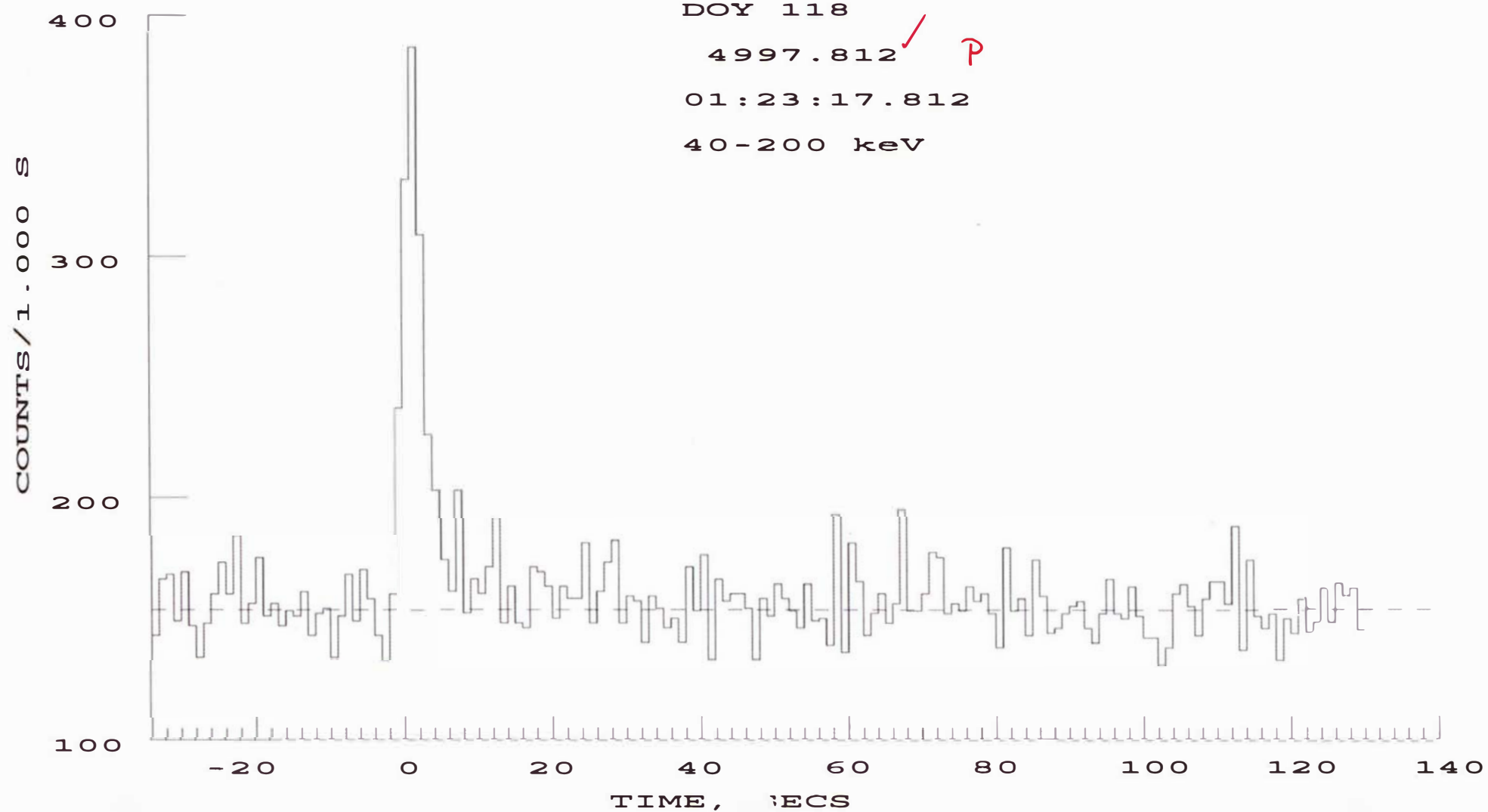
DOY 118

4997.812 ✓

P

01:23:17.812

40-200 keV



Subject: Suzaku/WAM TRN AUTOMATIC SEARCH: ae20120426_1751_1753_hxd_wam.uff

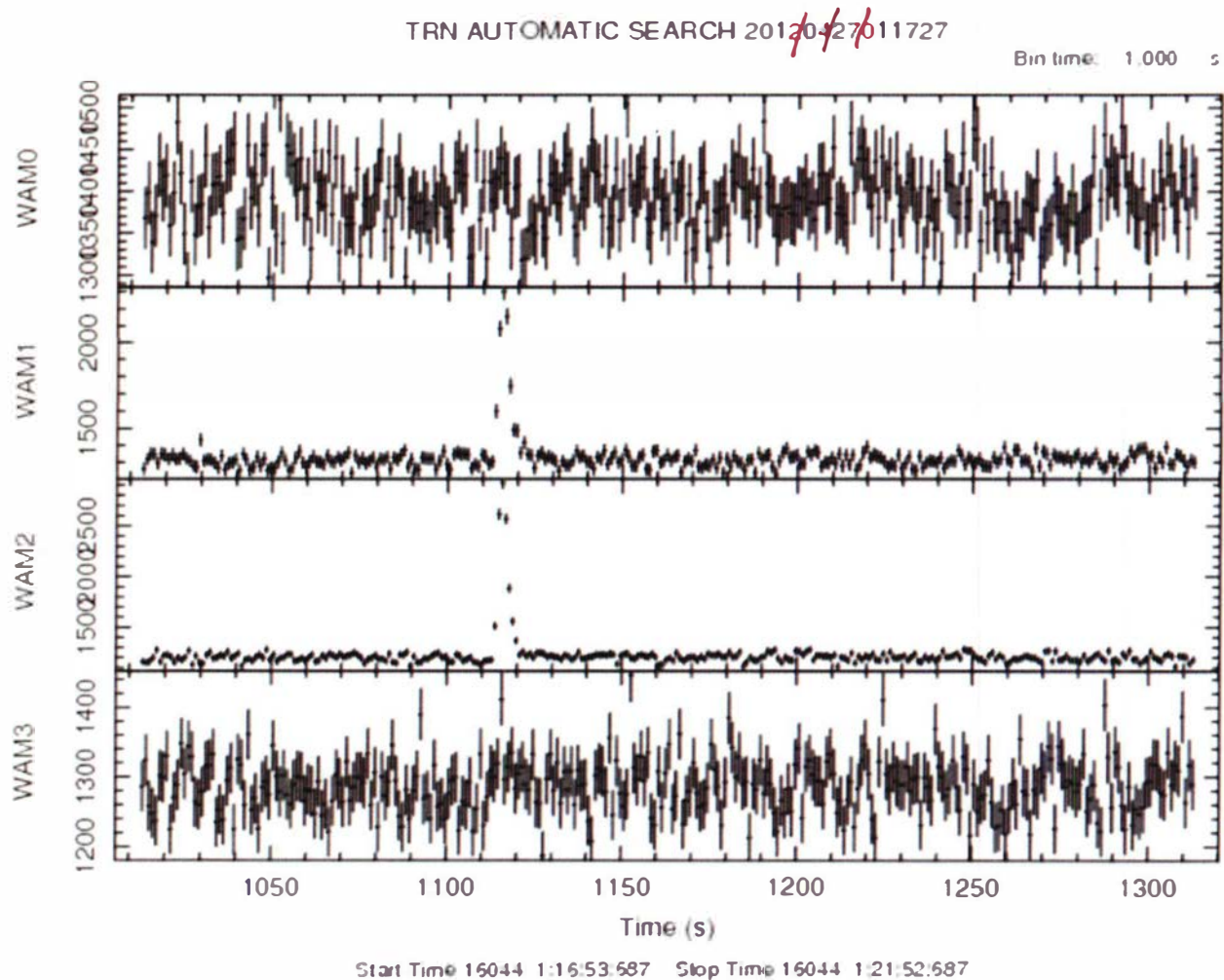
From: aetouban@astro.isas.jaxa.jp (Astro-E2 USC Duty Scientist)

Date: 4/27/2012 11:08 AM

To: hxd-grb@astro.isas.jaxa.jp, khurley@ssl.berkeley.edu, val@mail.ioffe.ru

2012-04-27 01:17:27 3.8880464900298154e+08 10.2

2012-04-27 04:19:54 3.8881559600095487e+08 5.3



GLAST

27/04/12

4647.791

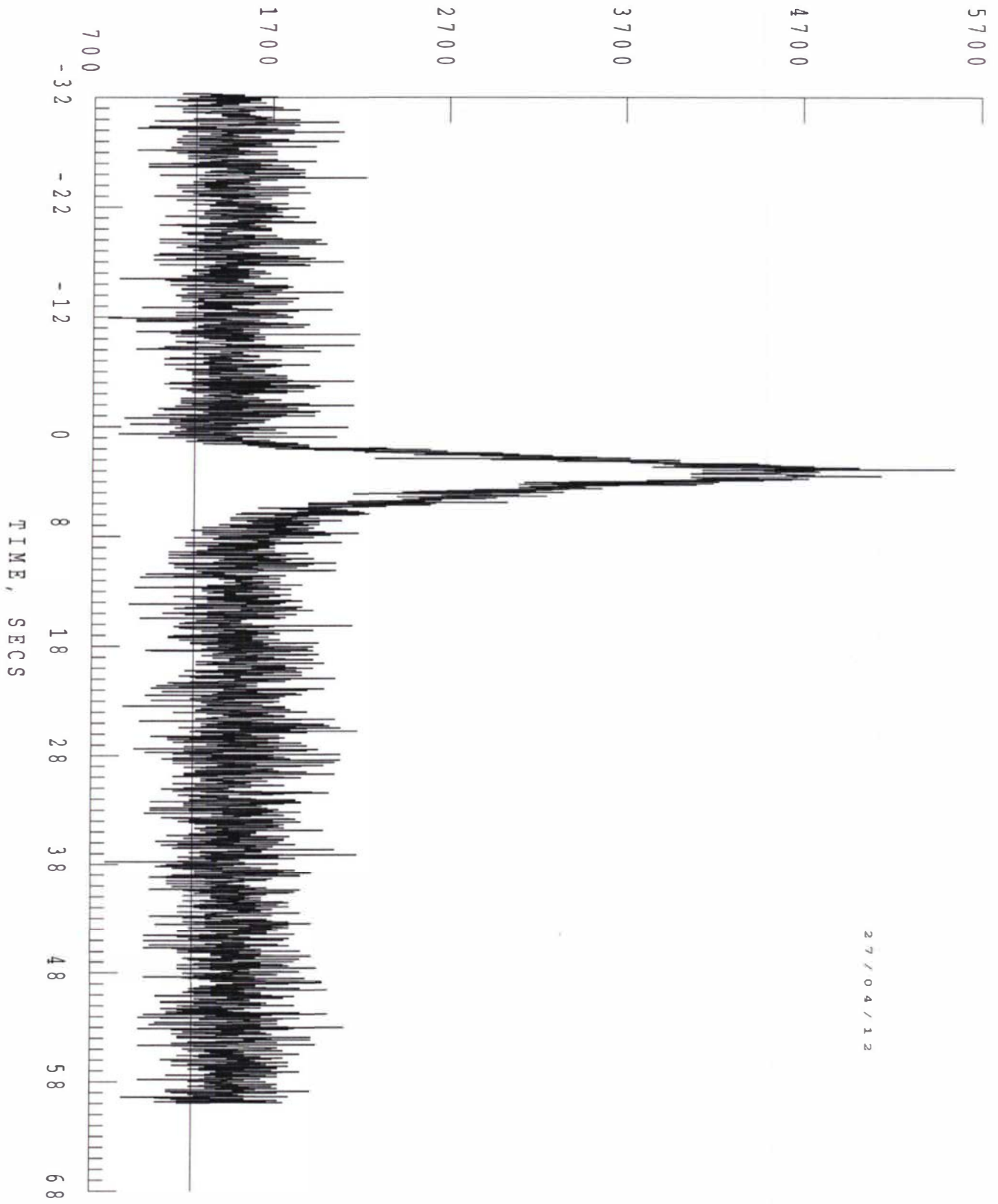
01:17:27

A

26- 293 keV

224.935, 29.31, 0.31

COUNTS/0.032 S



27/04/12

B

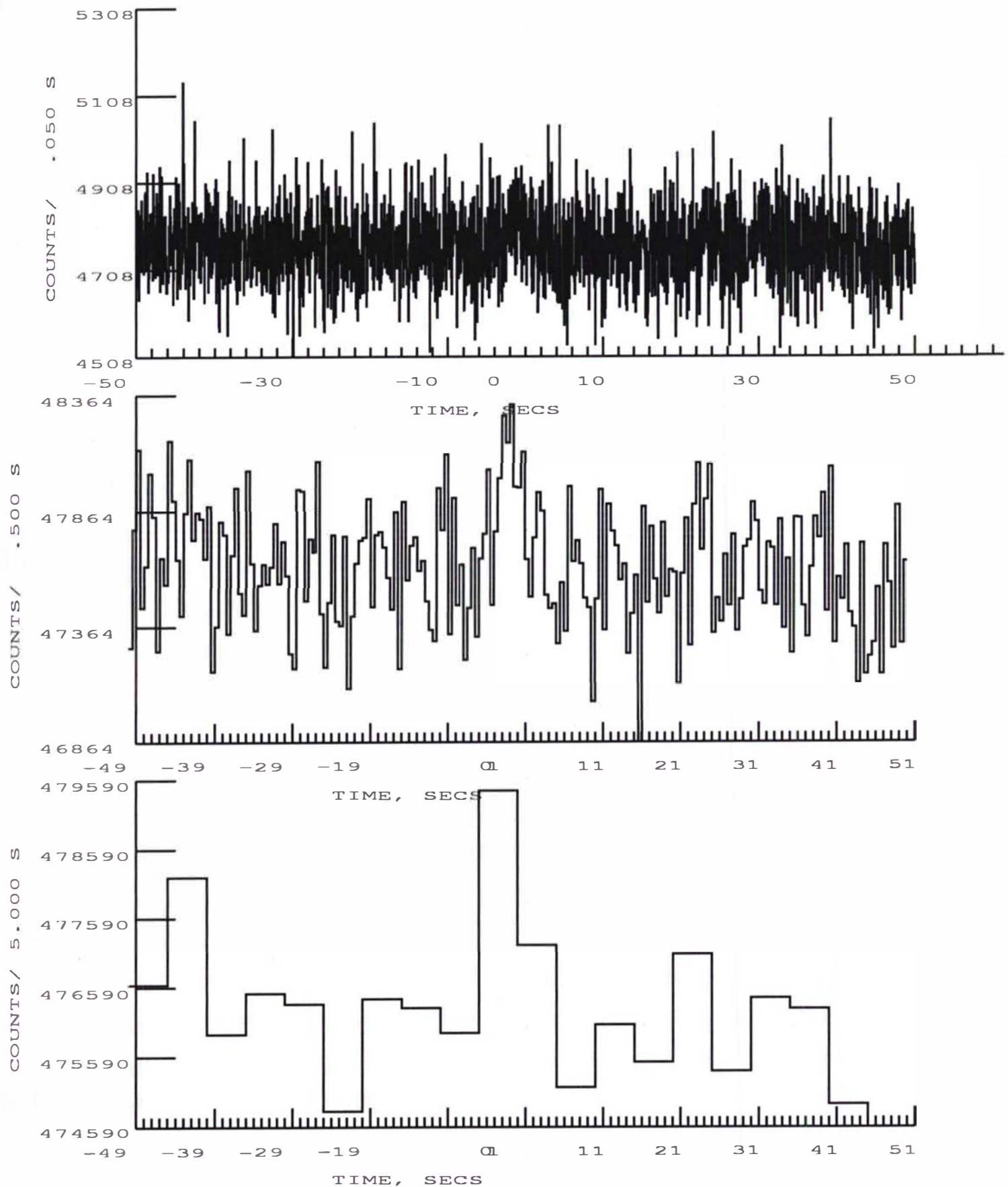
INTEGRAL

27/04/12

13237.000

03:40:37.0

22/01/14



B

Subject: [lbn] BAT lightcurve for trigger at 120427_0340

From: palmer+automatic_lightcurve@lanl.gov

Date: 4/27/2012 2:29 AM

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

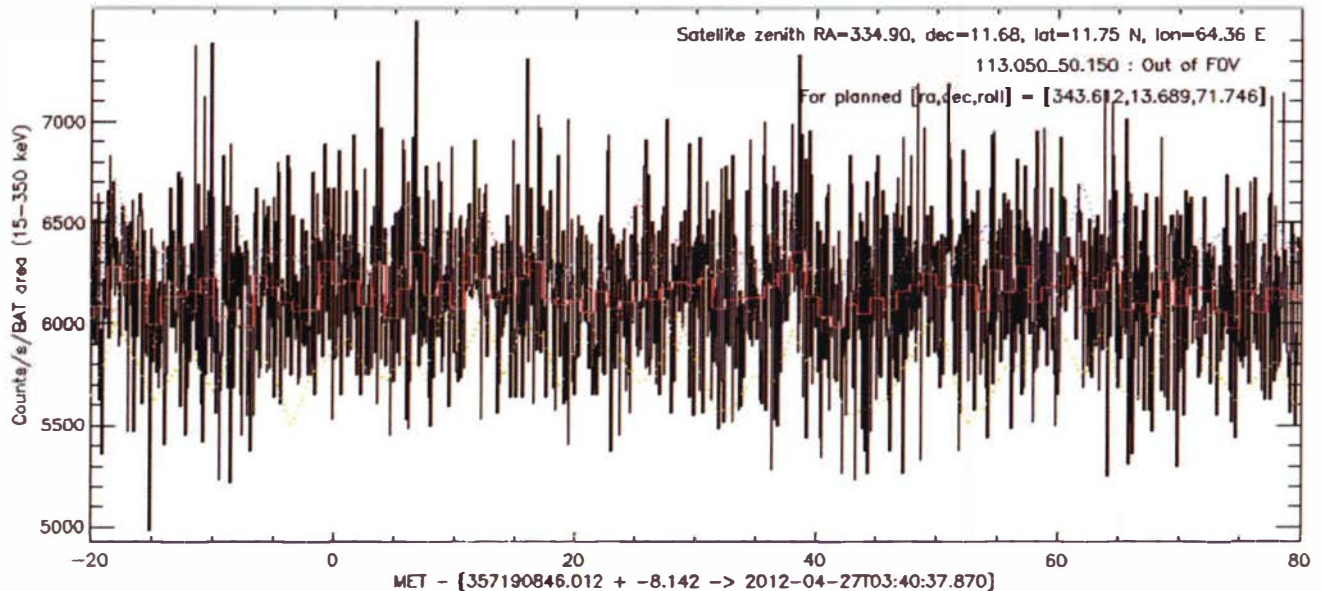
*****THIS IS AN AUTOMATICALLY GENERATED MESSAGE*****

/tmp/120427_0340.png

03:40:37

114.7, 50.21, 26.65

Fermi GRB



13 237

```
% /usr/local/bin/swinfo -o 357190846.012 -s 113.050_50.150
Time(MET + UTCF -> UT):      357190846.012 + -8.142 -> 2012-04-27T03:40:37.870
Swift Zenith(RA,dec):        334.90, 11.68
Swift Location(lon,lat,alt):  64.36 E, 11.75 N, 571 km
Obs Sequence Number:         00040469002
Obs Target Name:              CLASS J2254+1341 (planned)
Obs Date and Times:           2012-04-27 03:30:51 - 03:49:51
Obs Pointing(ra,dec,roll):    343.612, 13.689, 71.75
113.050_50.150_imageloc (boresight_dist, angle): (102, -131)
113.050_50.150_exposure (cm^2 cos adjusted): 0
113.050_50.150_altitude: 5 (depressed but unattenuated)
```

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

Attachments:

/tmp/120427_0340.png	23.2 KB
/tmp/120427_0340_bat64ms_ipn	87.0 KB

MS01

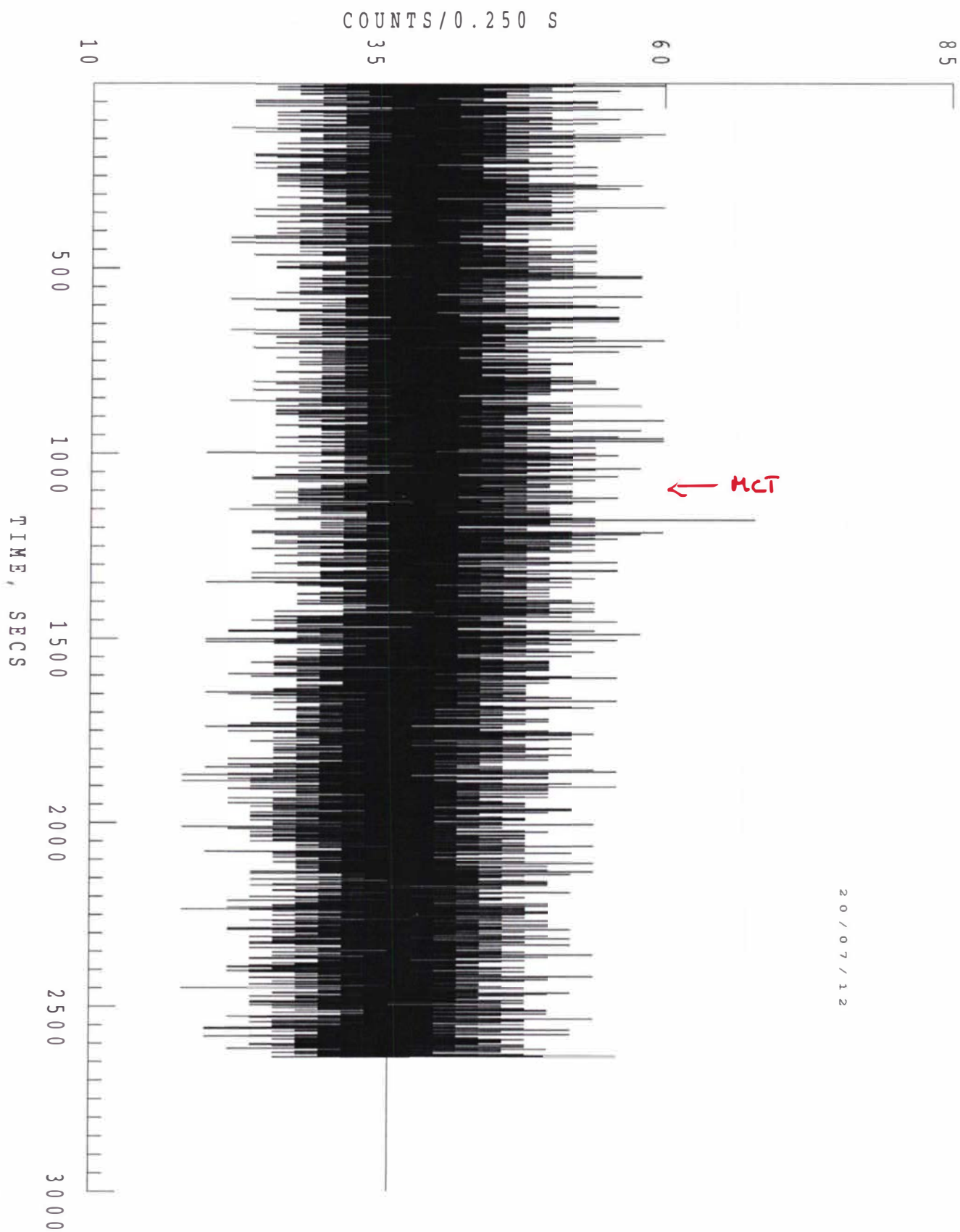
27/04/12

11868.474

B

50 - 3000 keV

Unoccluded

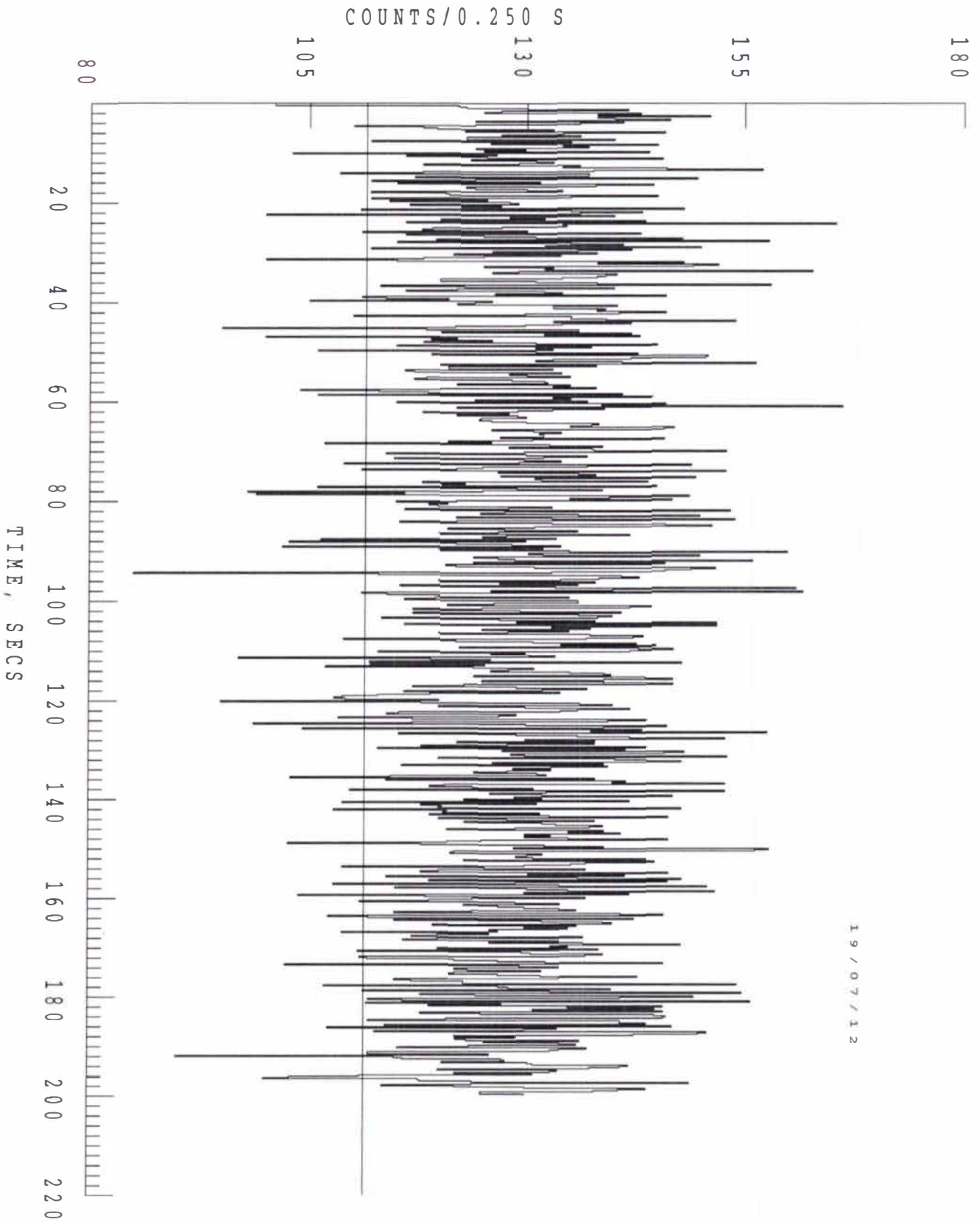


HESSI

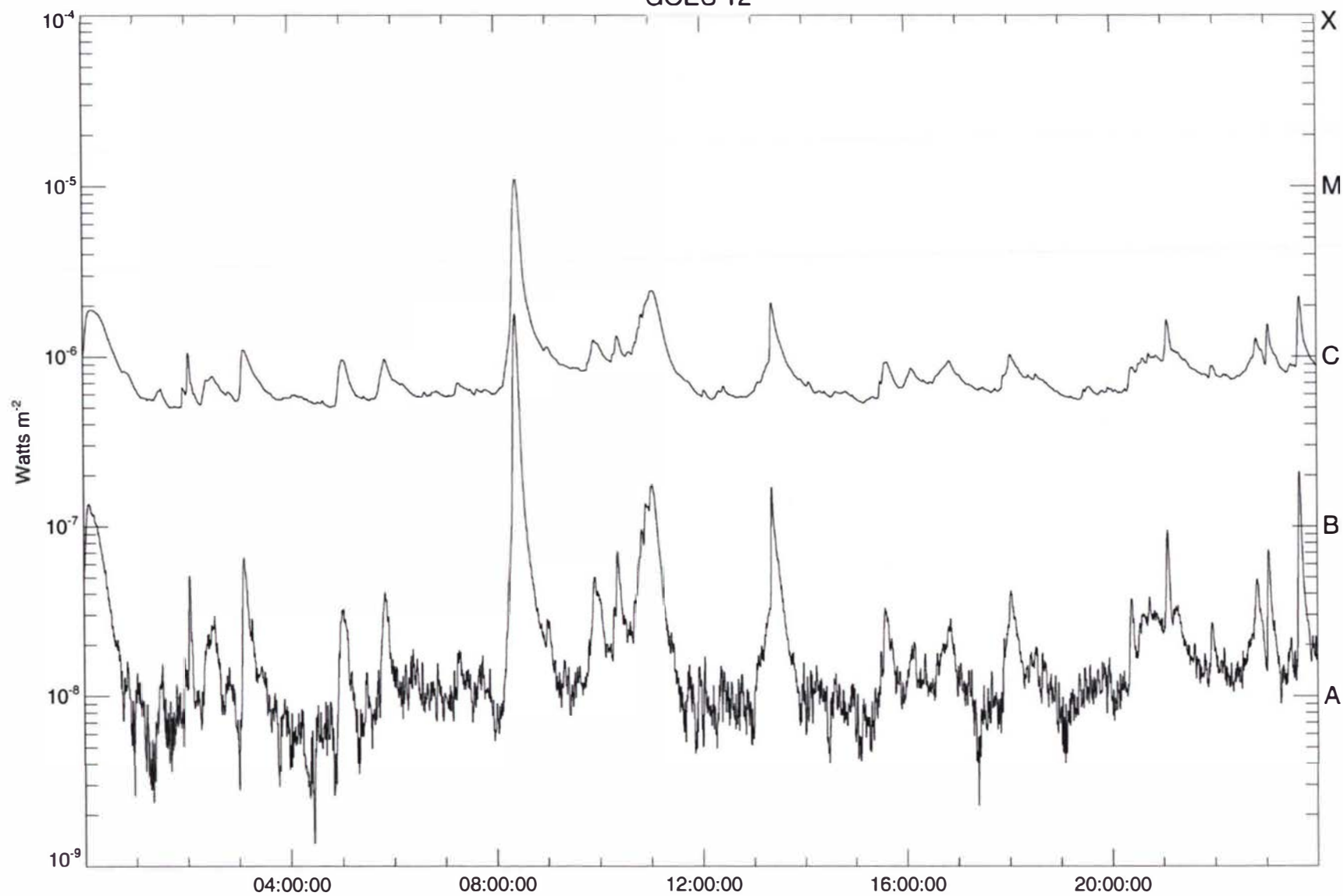
27/04/12 13137.000 (FERMI_20120427_13237)

B

25- 150 keV



GOES 12



Data Start: 12/04/27, 0000:10

Plot created: 12/04/30, 0841

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

A

24/07/12

MESSENGER

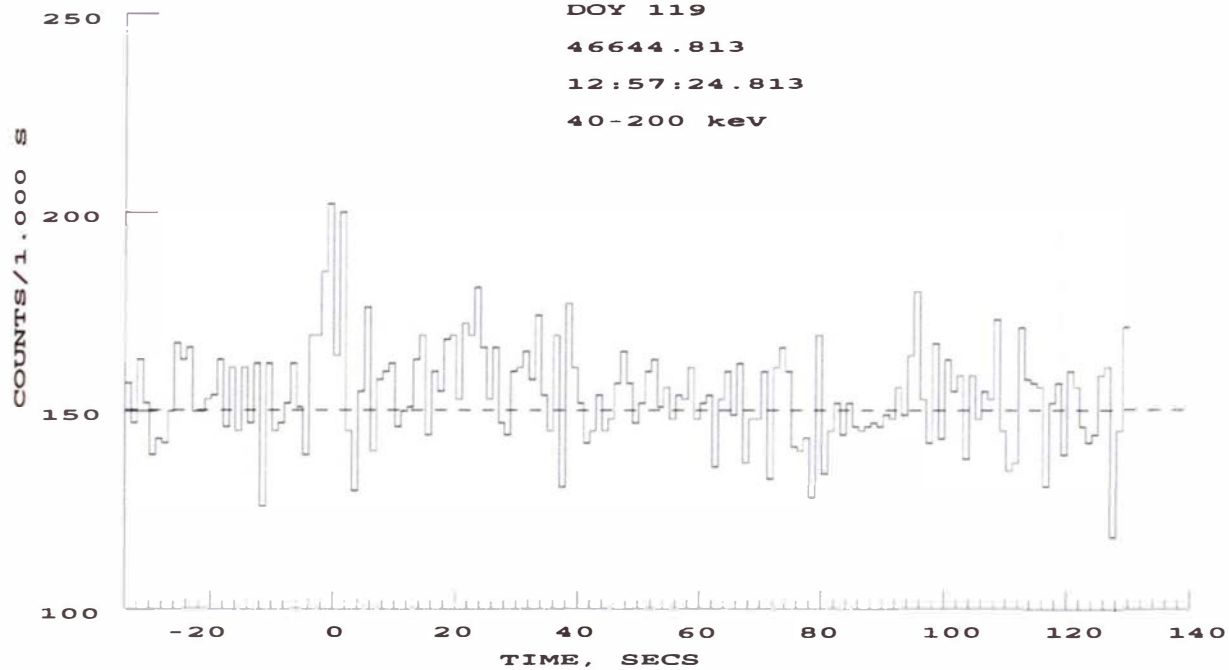
28/04/12

DOY 119

46644.813

12:57:24.813

40-200 keV



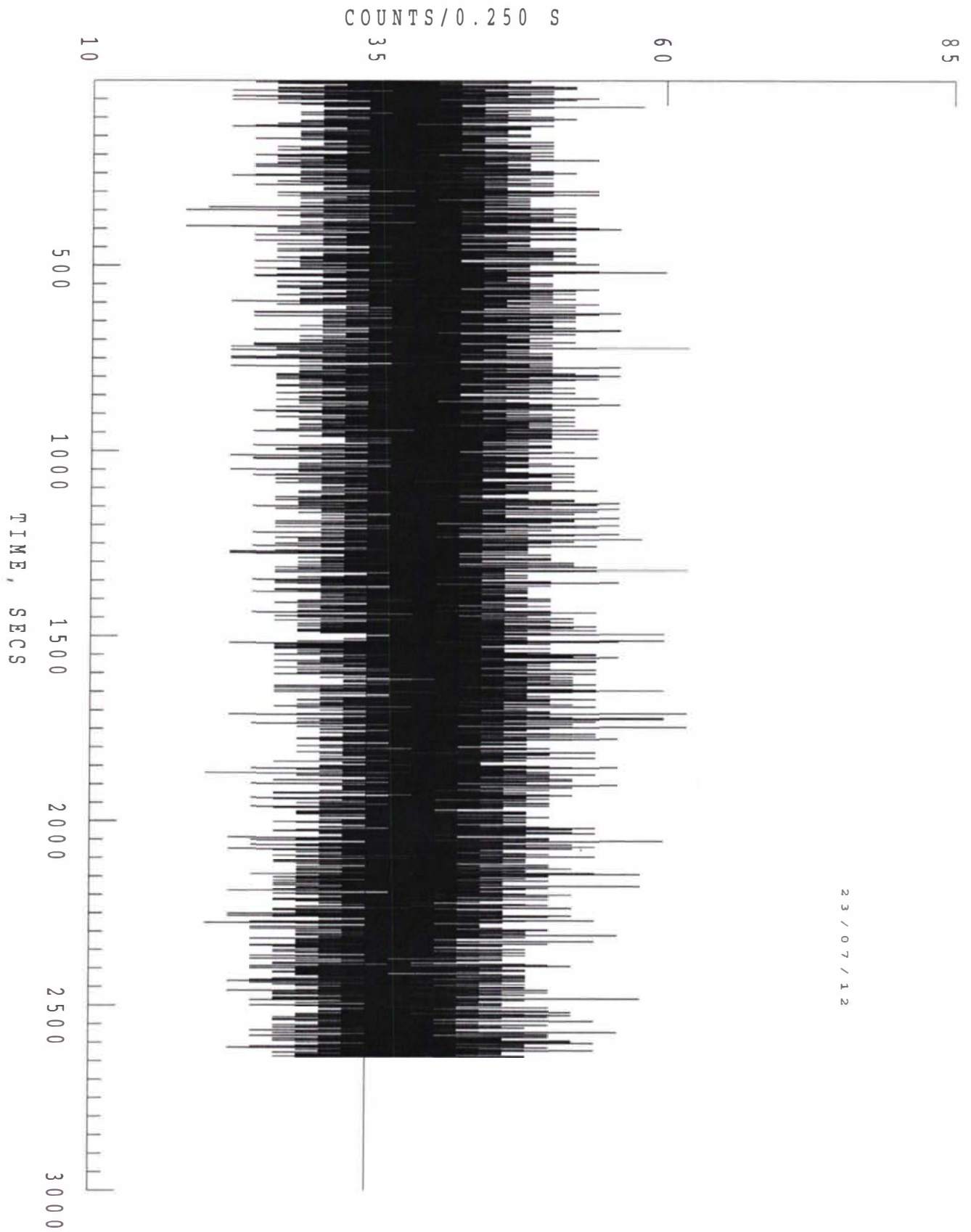
MS01

28/04/12

45766.551

A

50 - 3000 keV

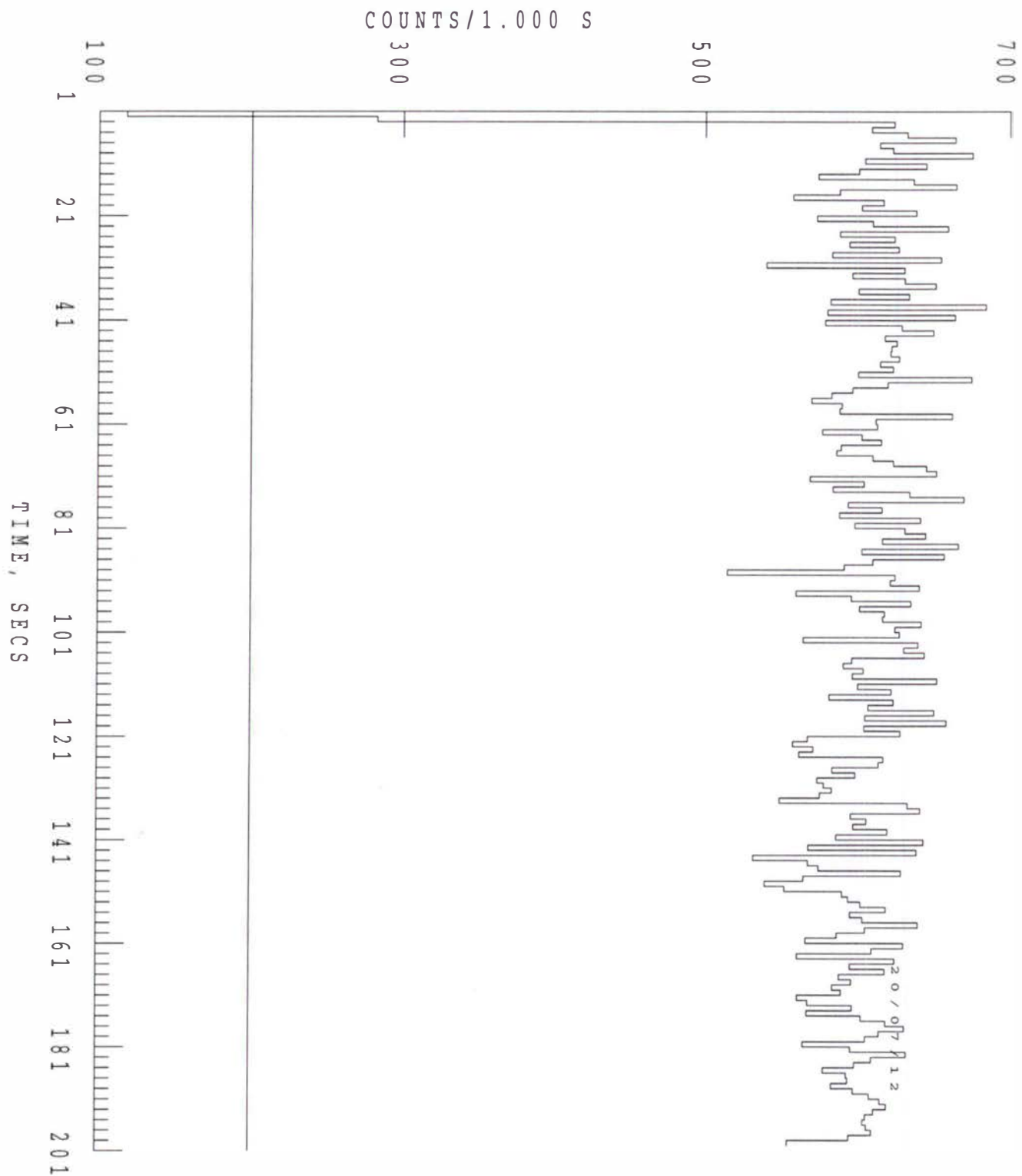


HESSI

28/04/12 47009.000 (SUZAKU_RI_20120428_47109)

A

25- 150 keV



Date: Apr 8 2013 + Sep 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)? 12
- ☒ 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?

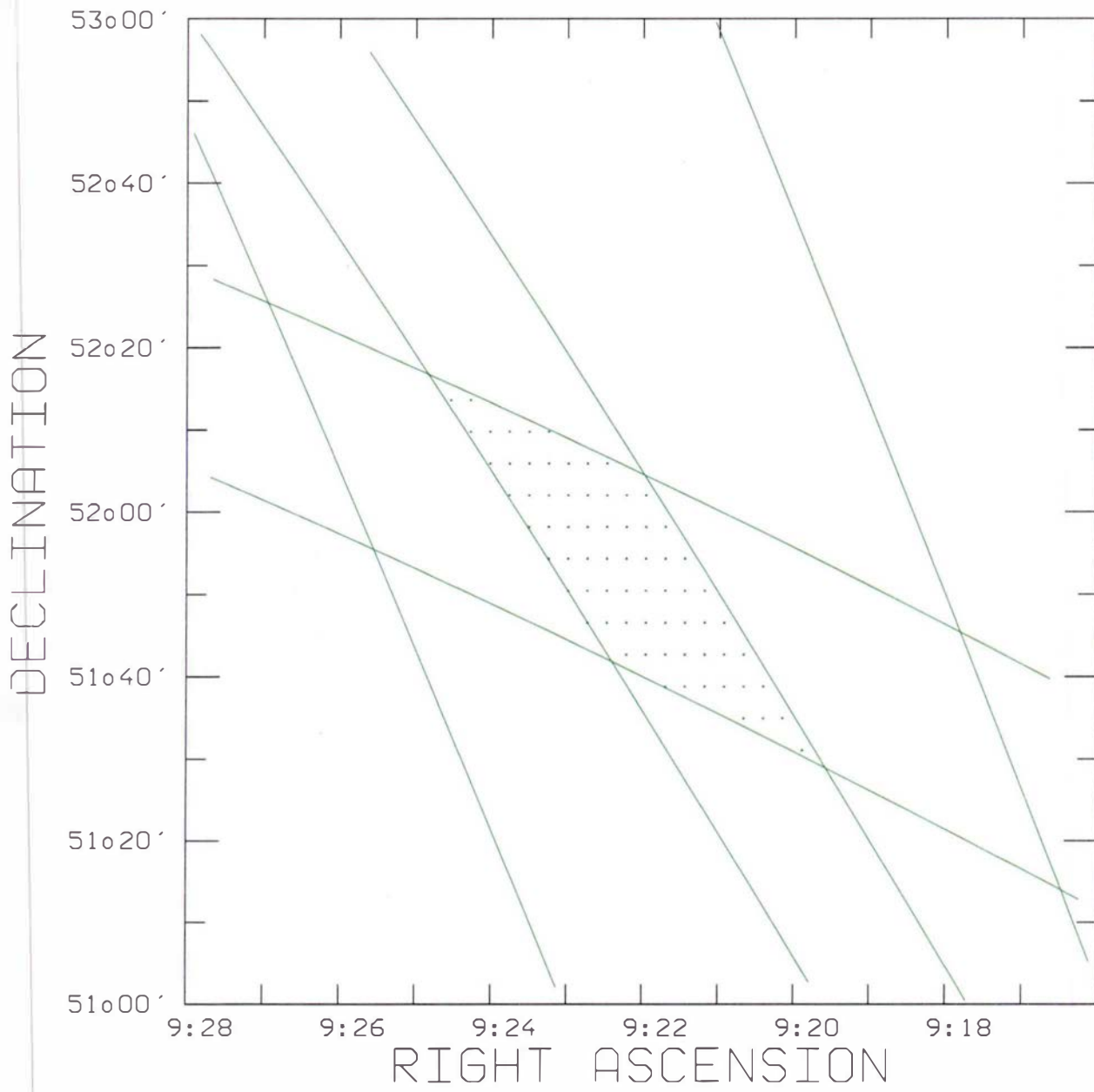
7. For INTEGRAL events

- ☐ 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?

GRB120428 ~62779 S

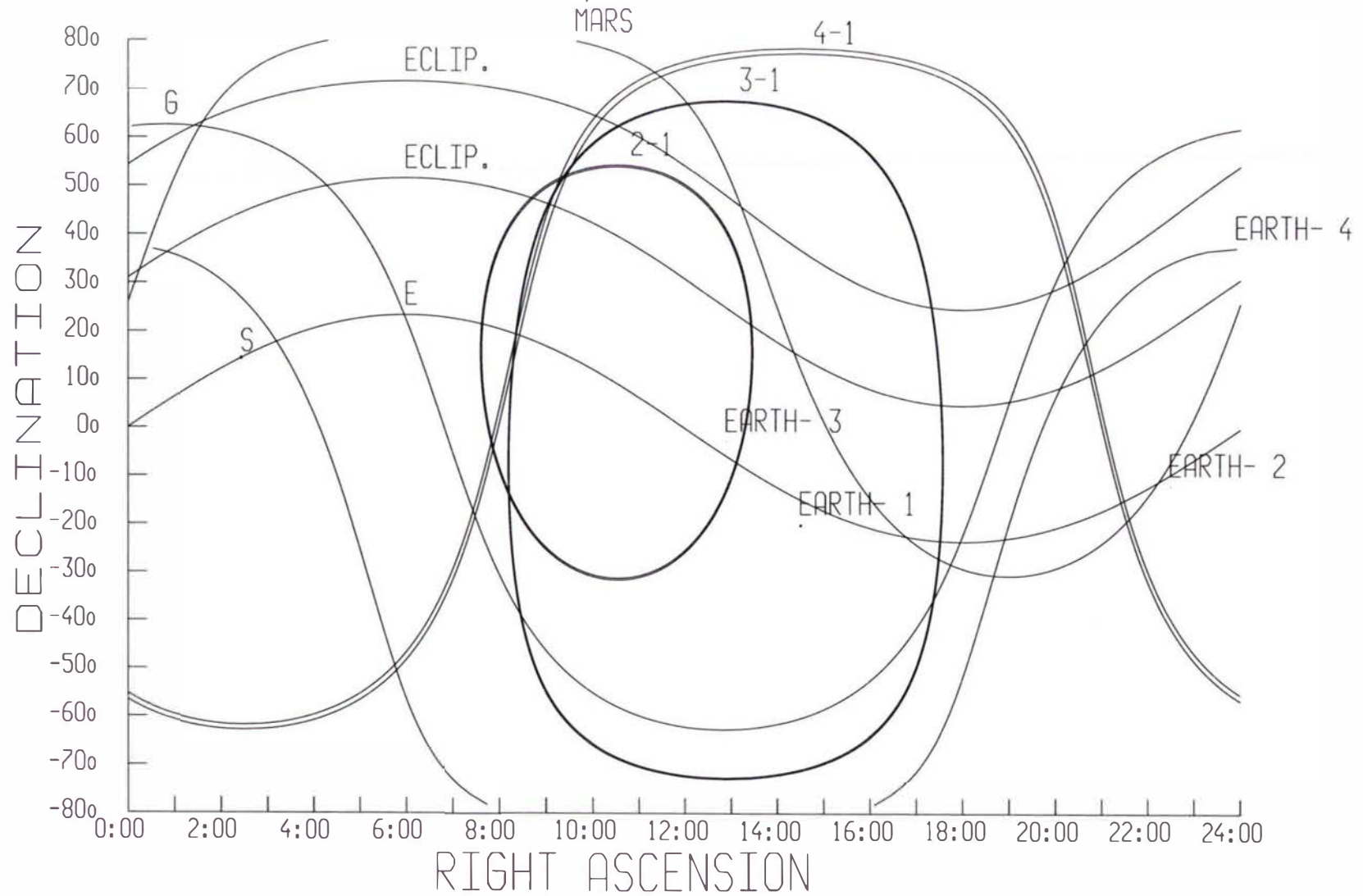
05/08/20

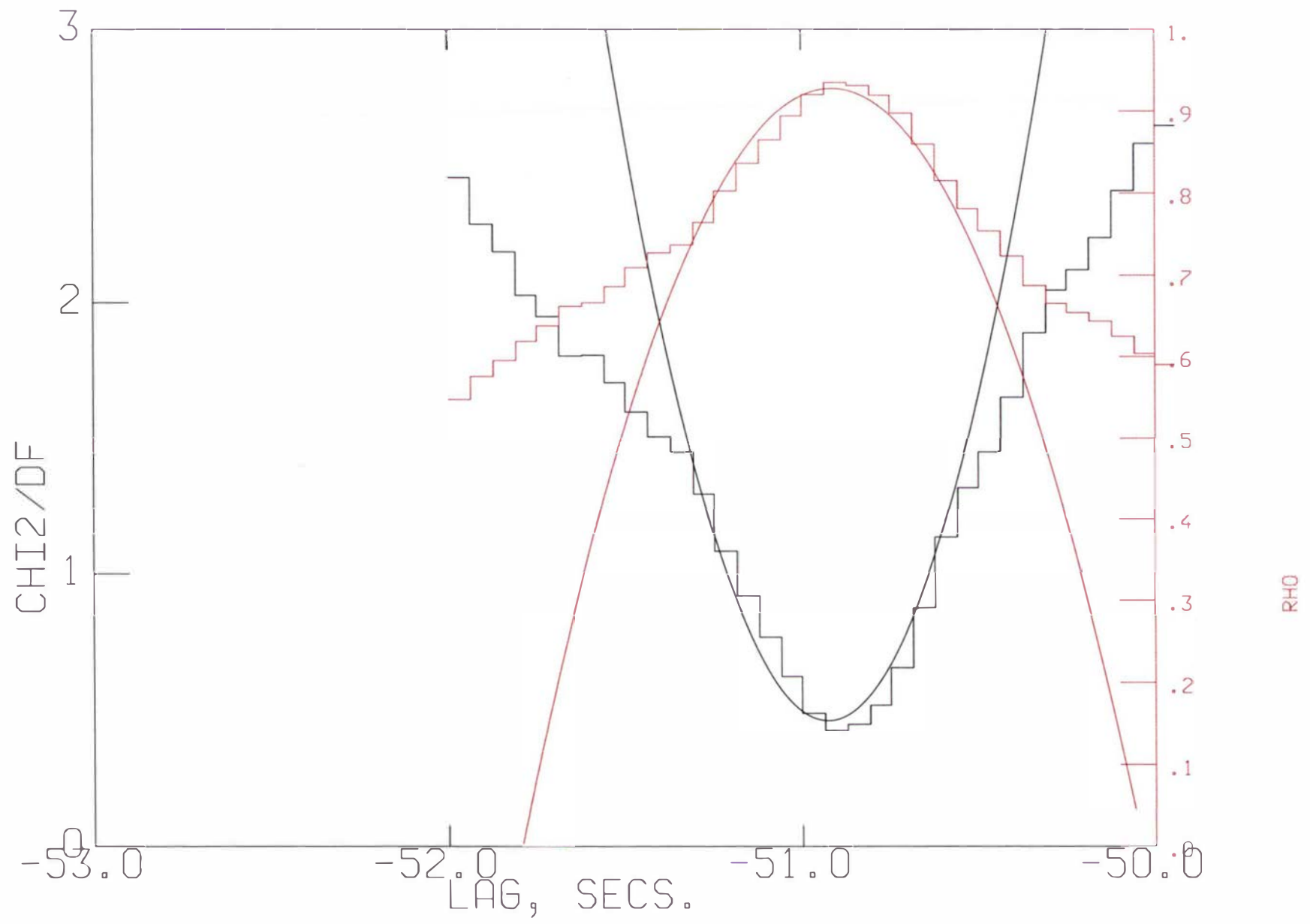


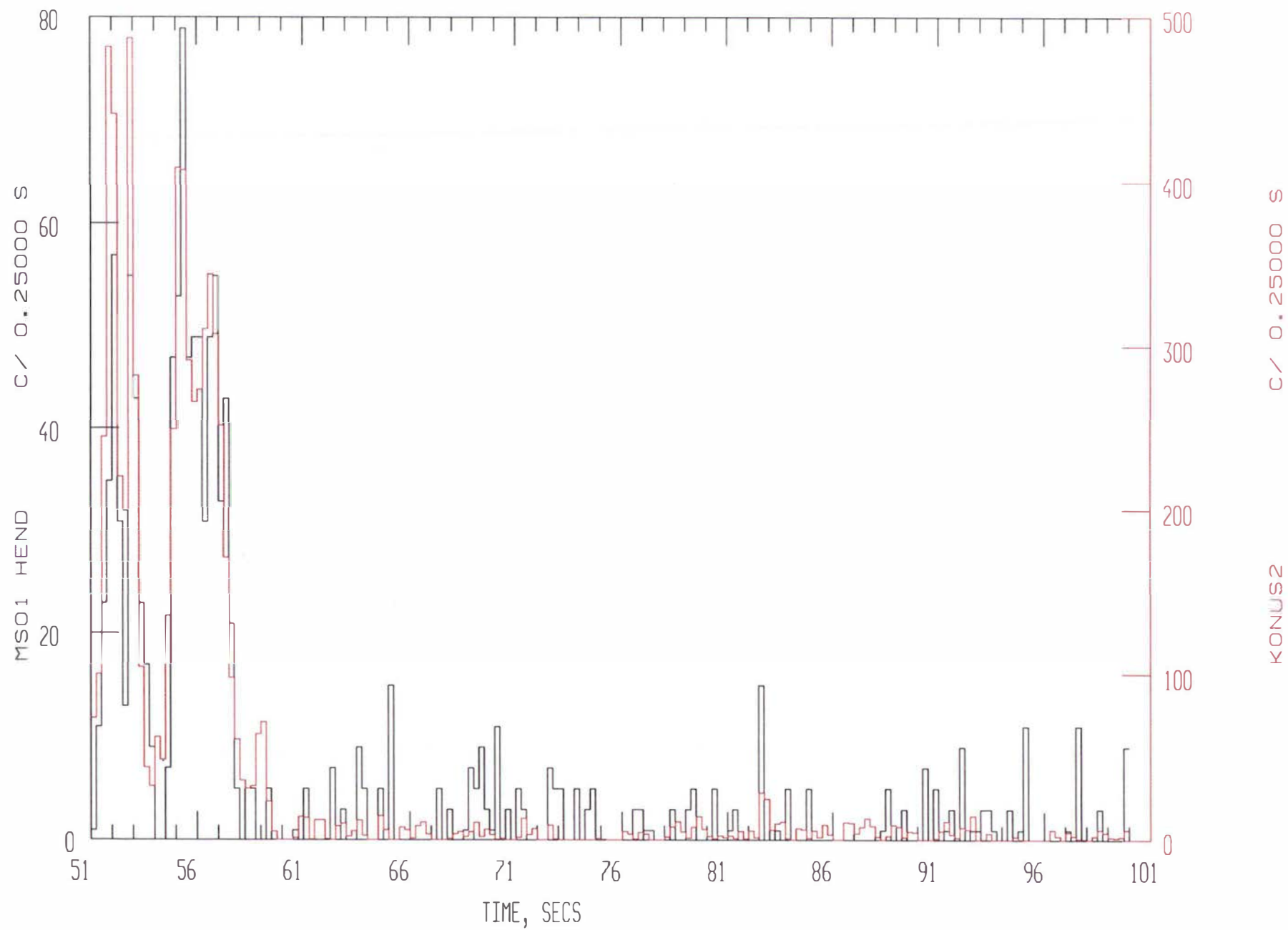
EVENT OF APR 28, 2012 17:26

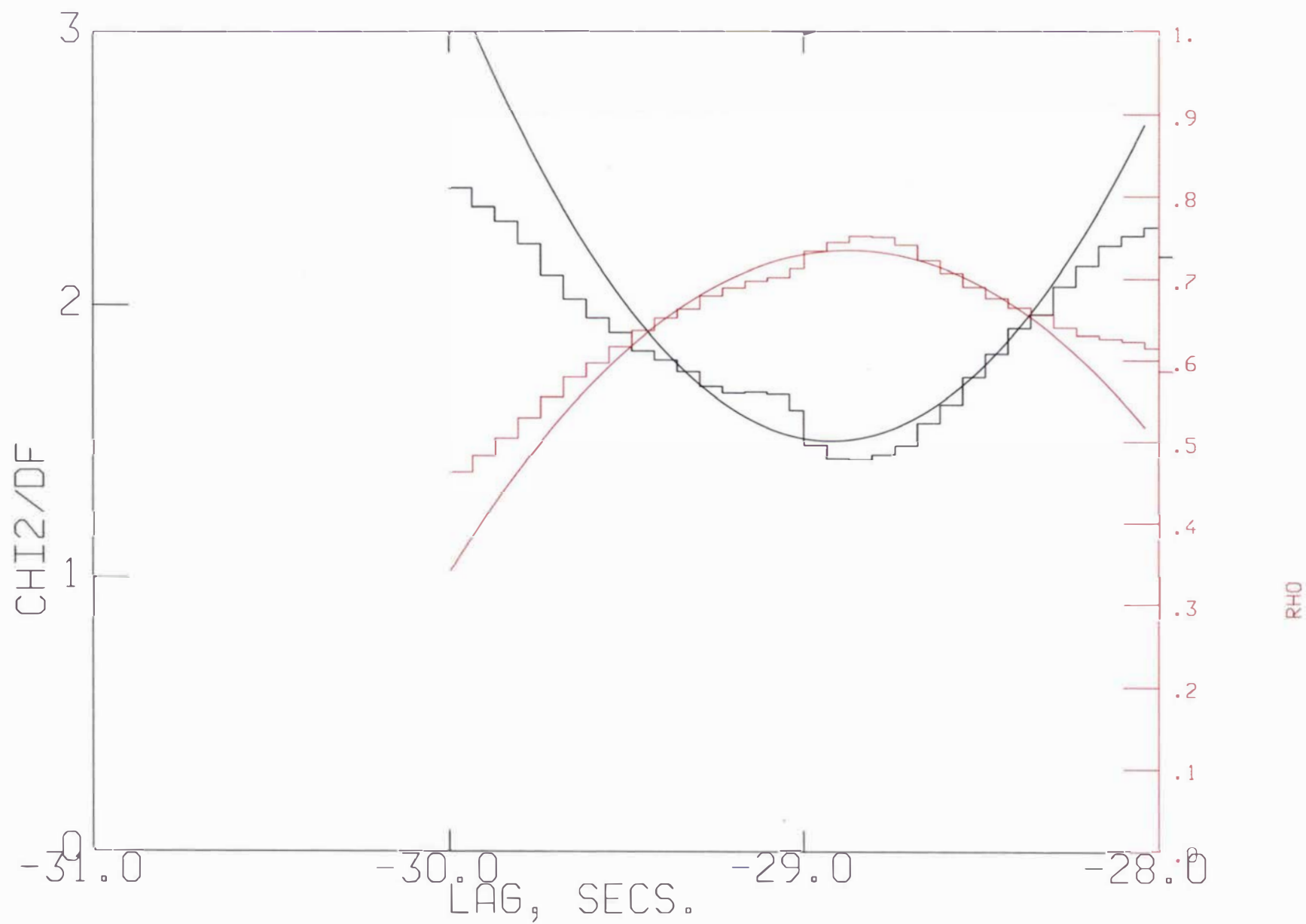
05/08/2015

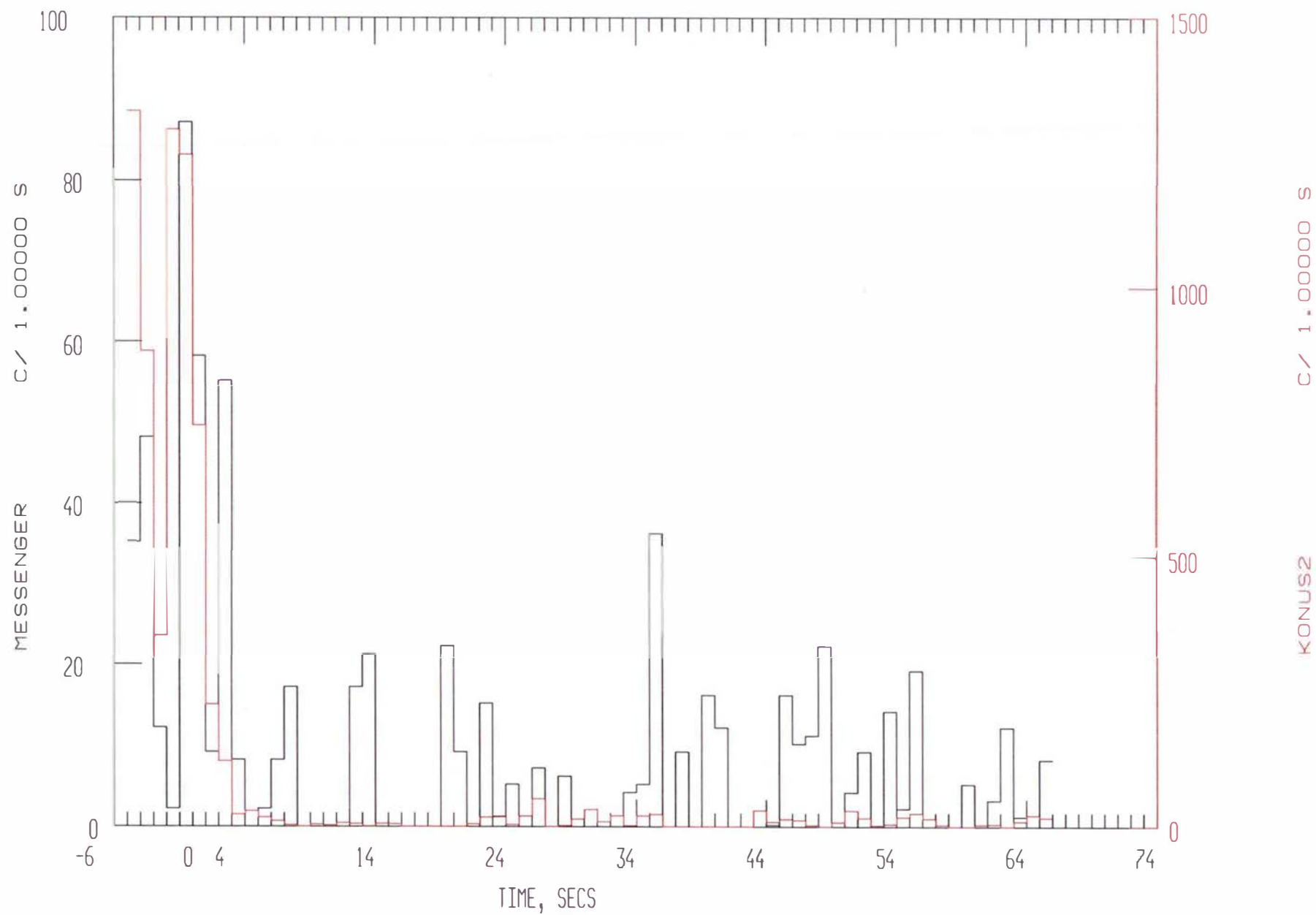
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 KONUS2 2 MO 3 MESSENGER 4 SUZAKU

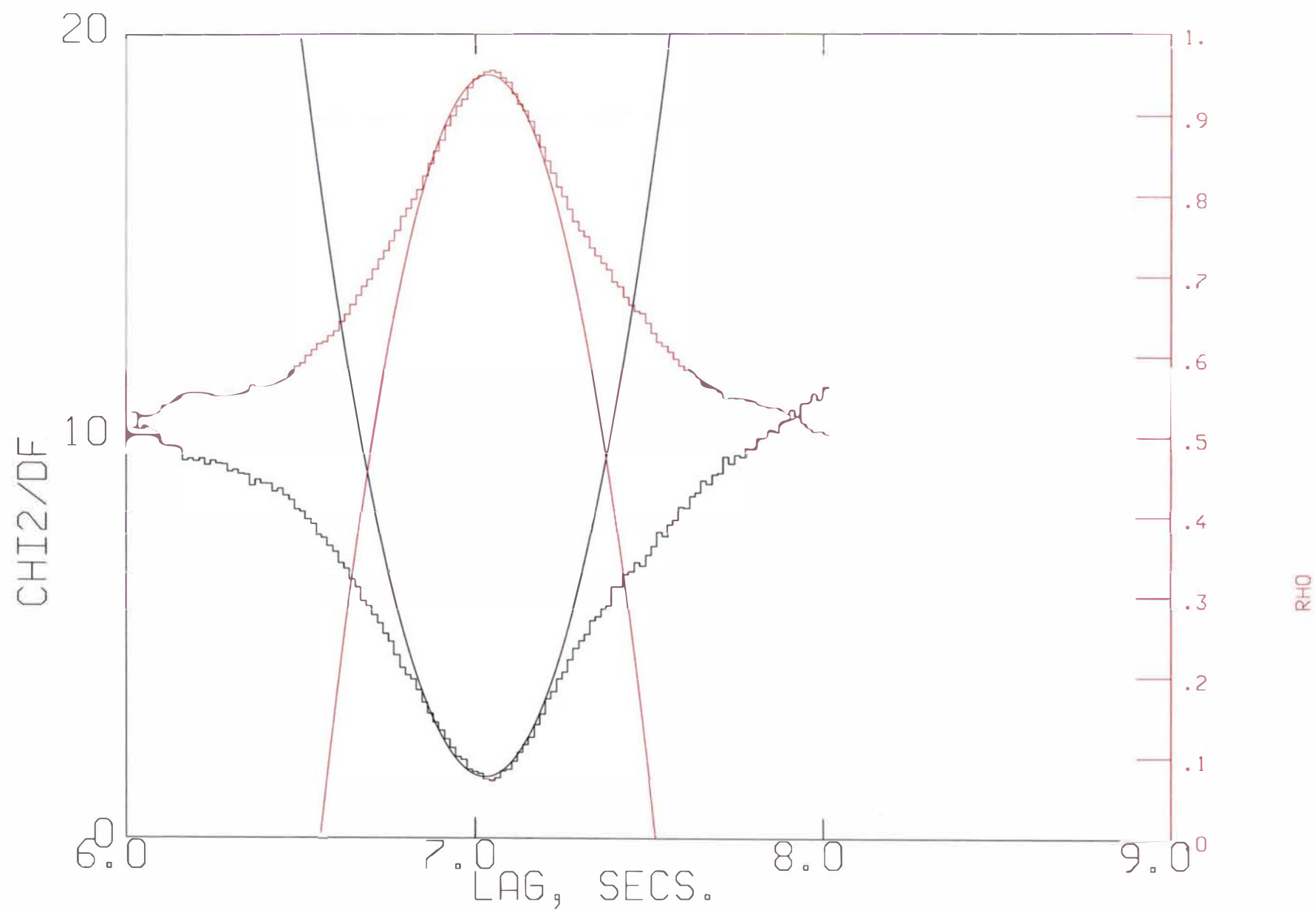


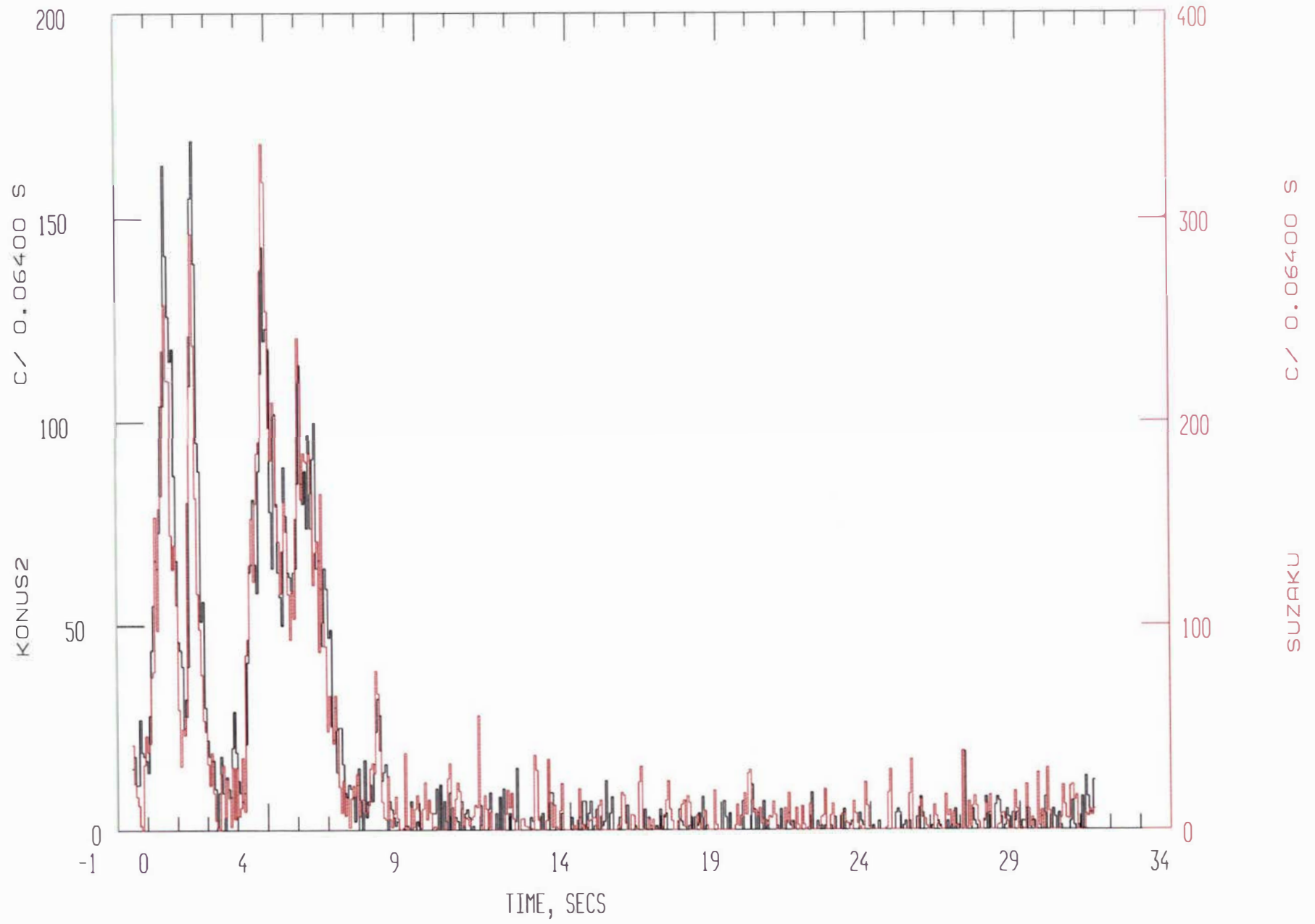








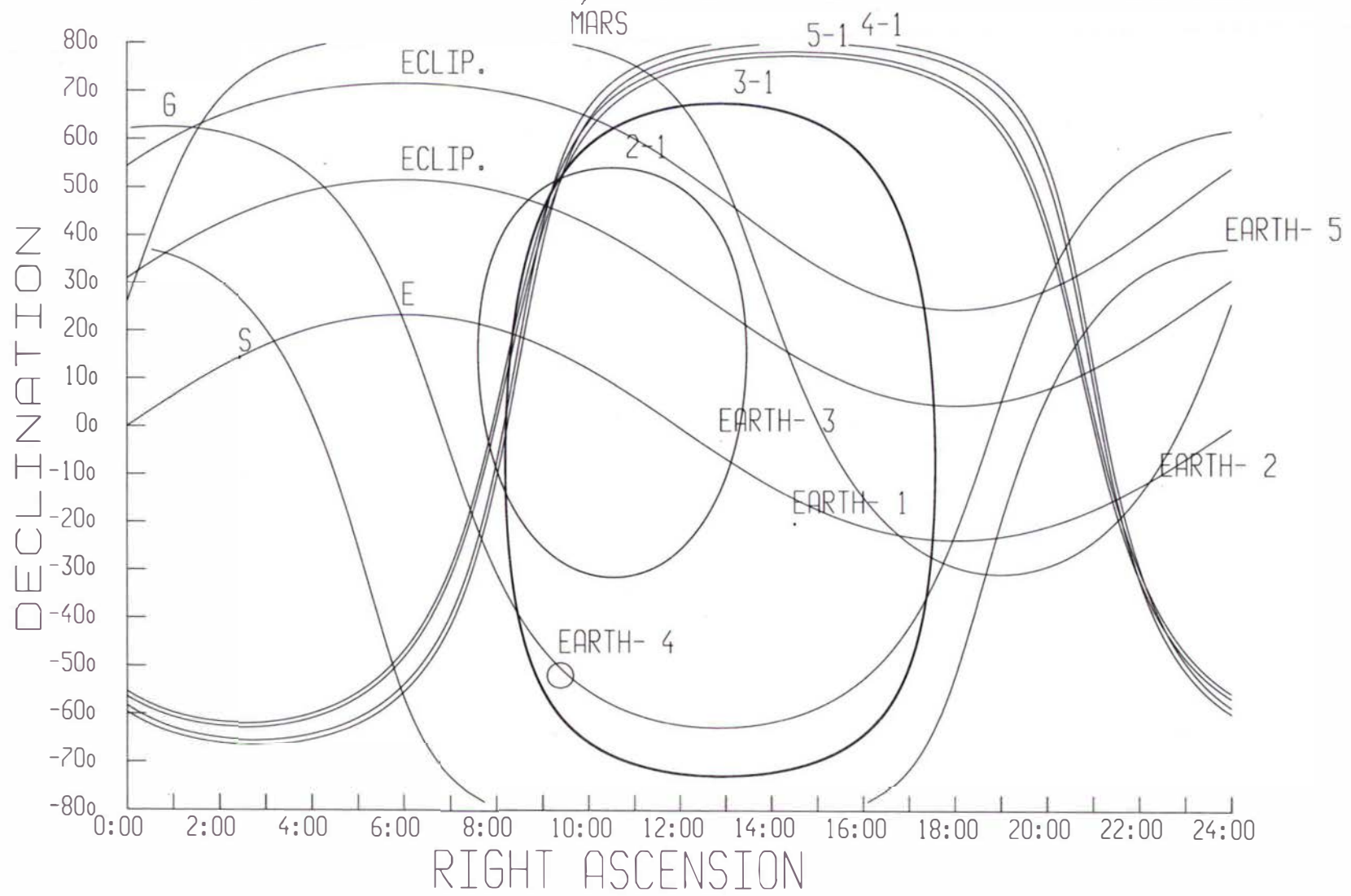


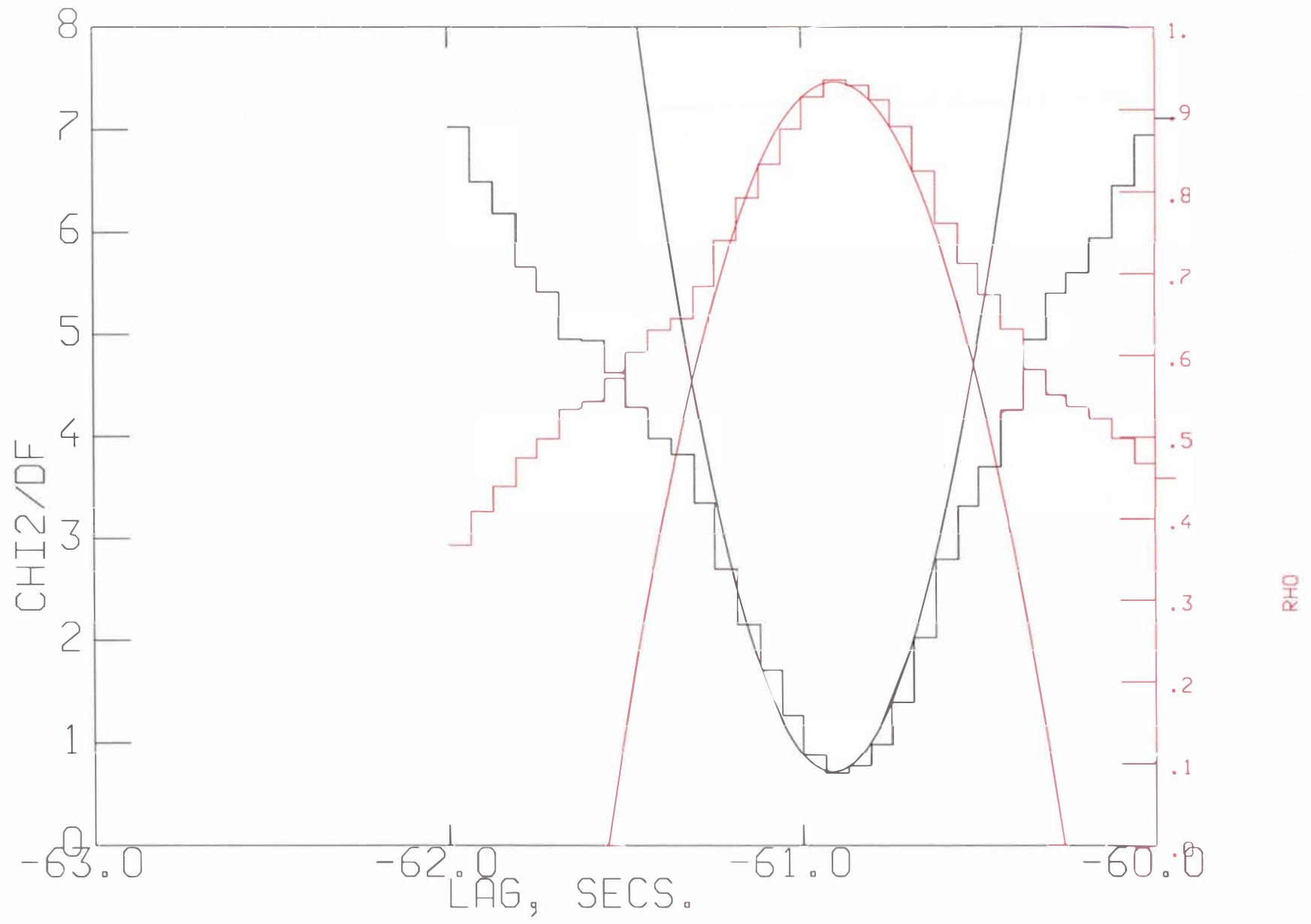


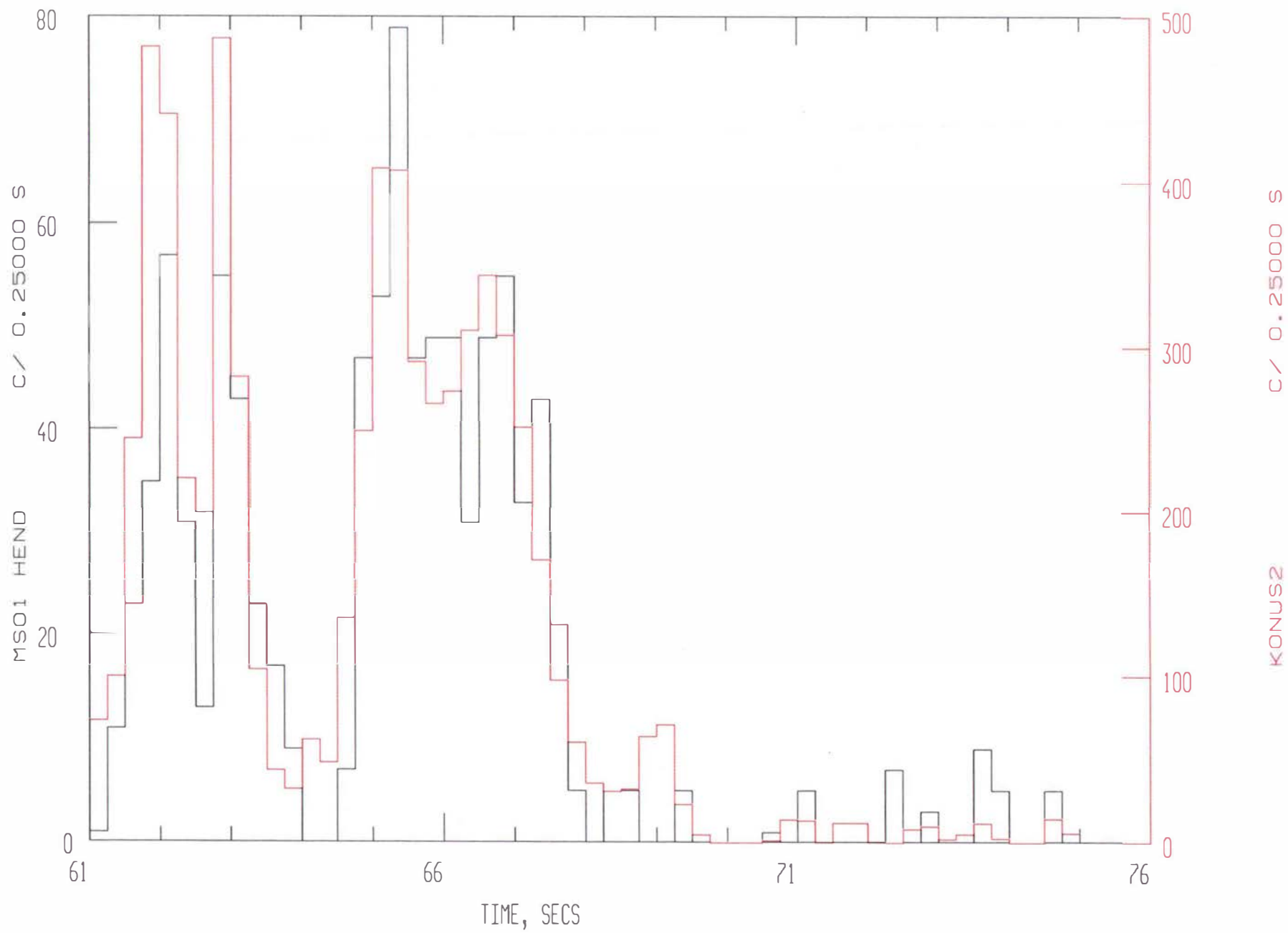
N-M = CORRELATION BETWEEN SATELLITES N AND M
 EARTH-N = EARTH AS SEEN FROM SATELLITE N
 S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
 1 KONUS2 2 MO 3 MESSENGER 4 INTEGRAL 5 SUZAKU

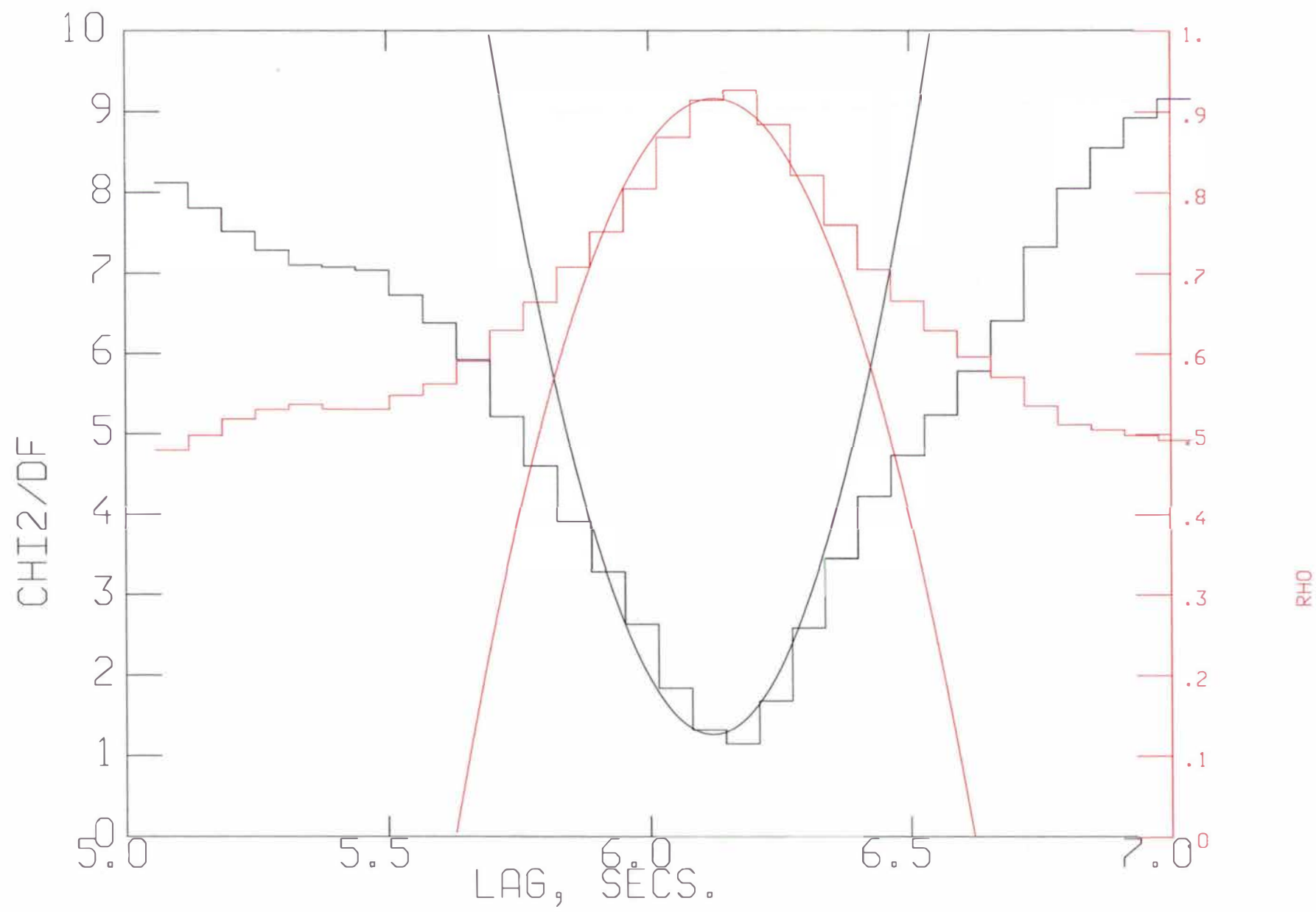
EVENT OF APR 28, 2012 17:26

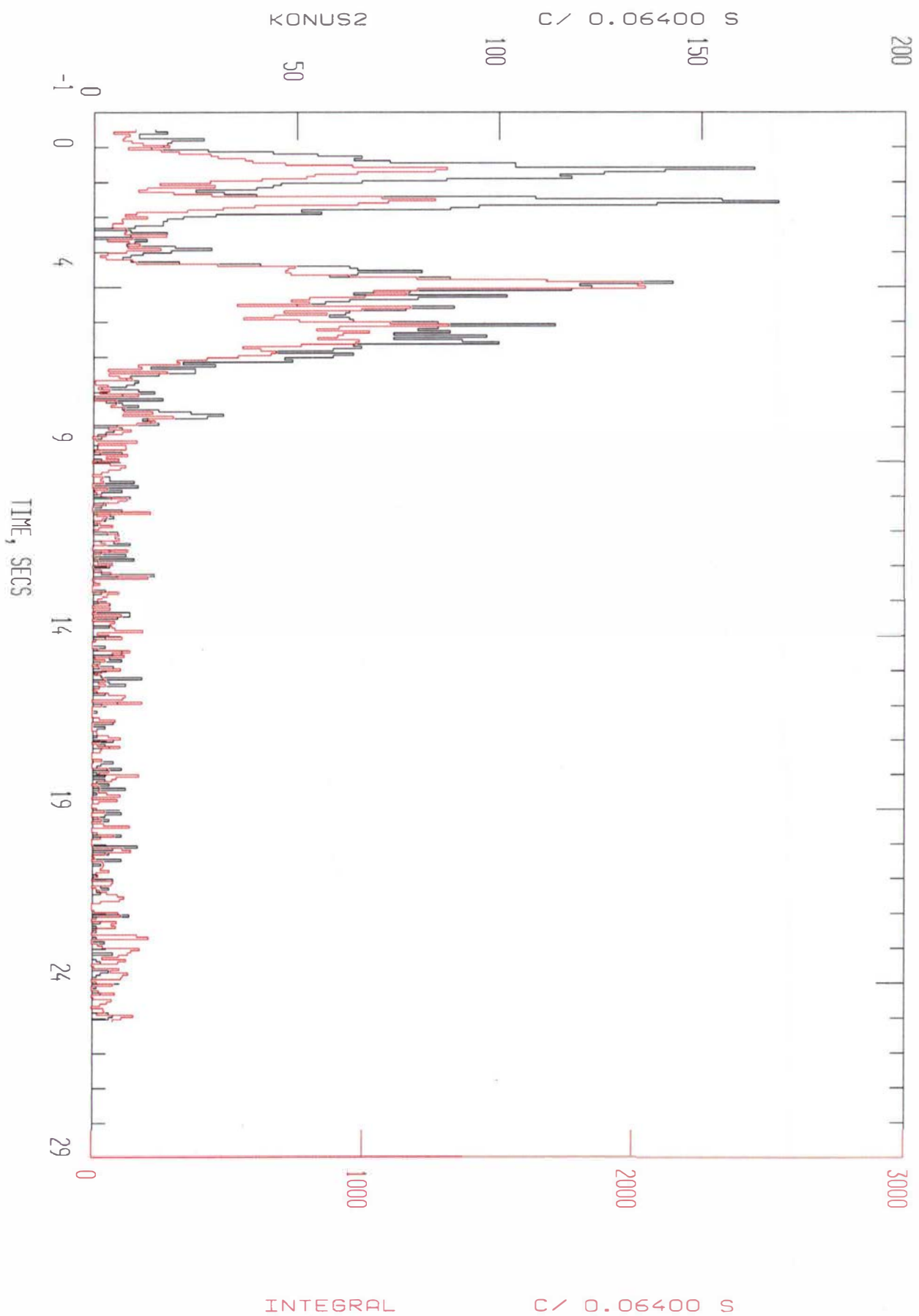
08/04/2013

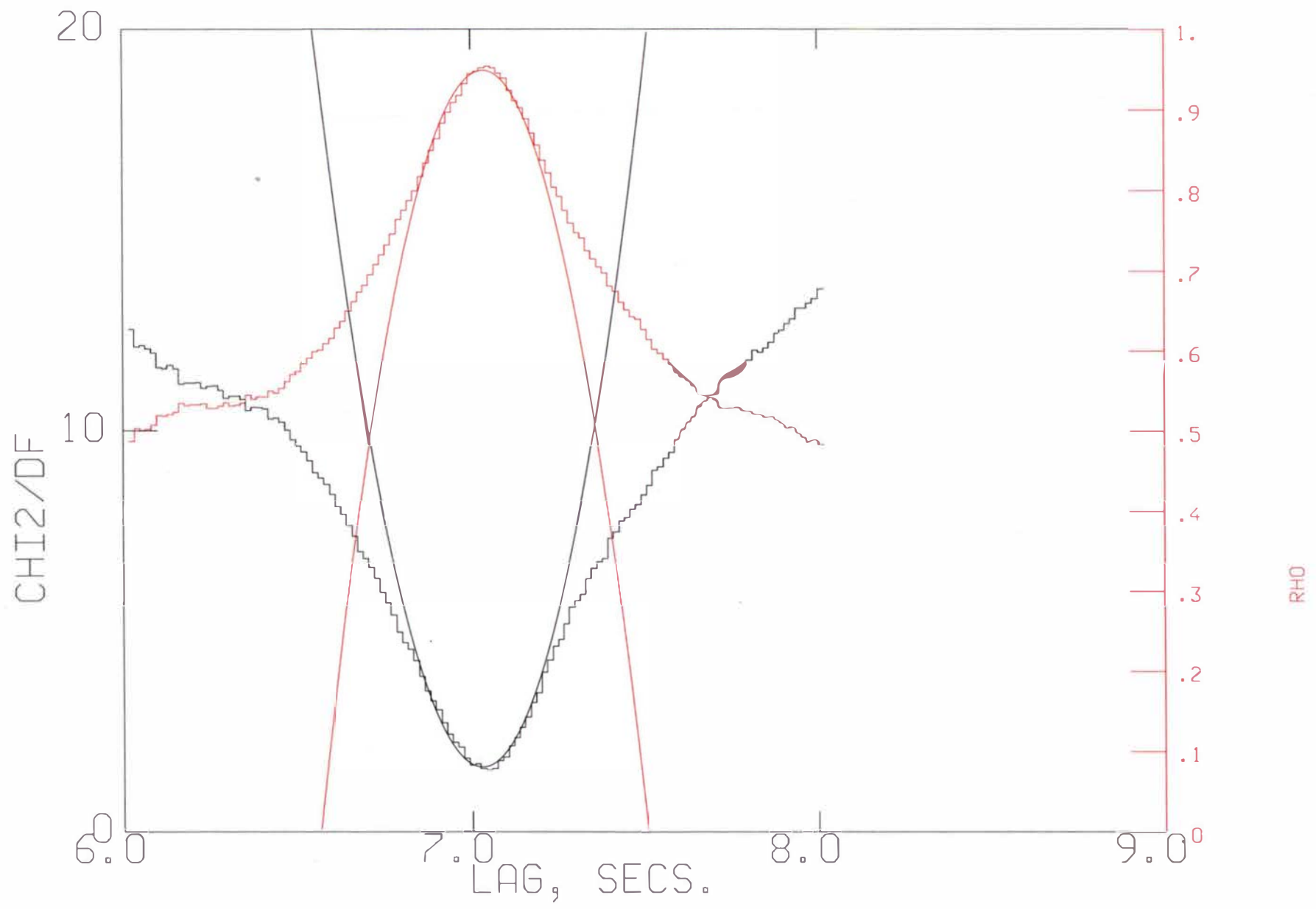


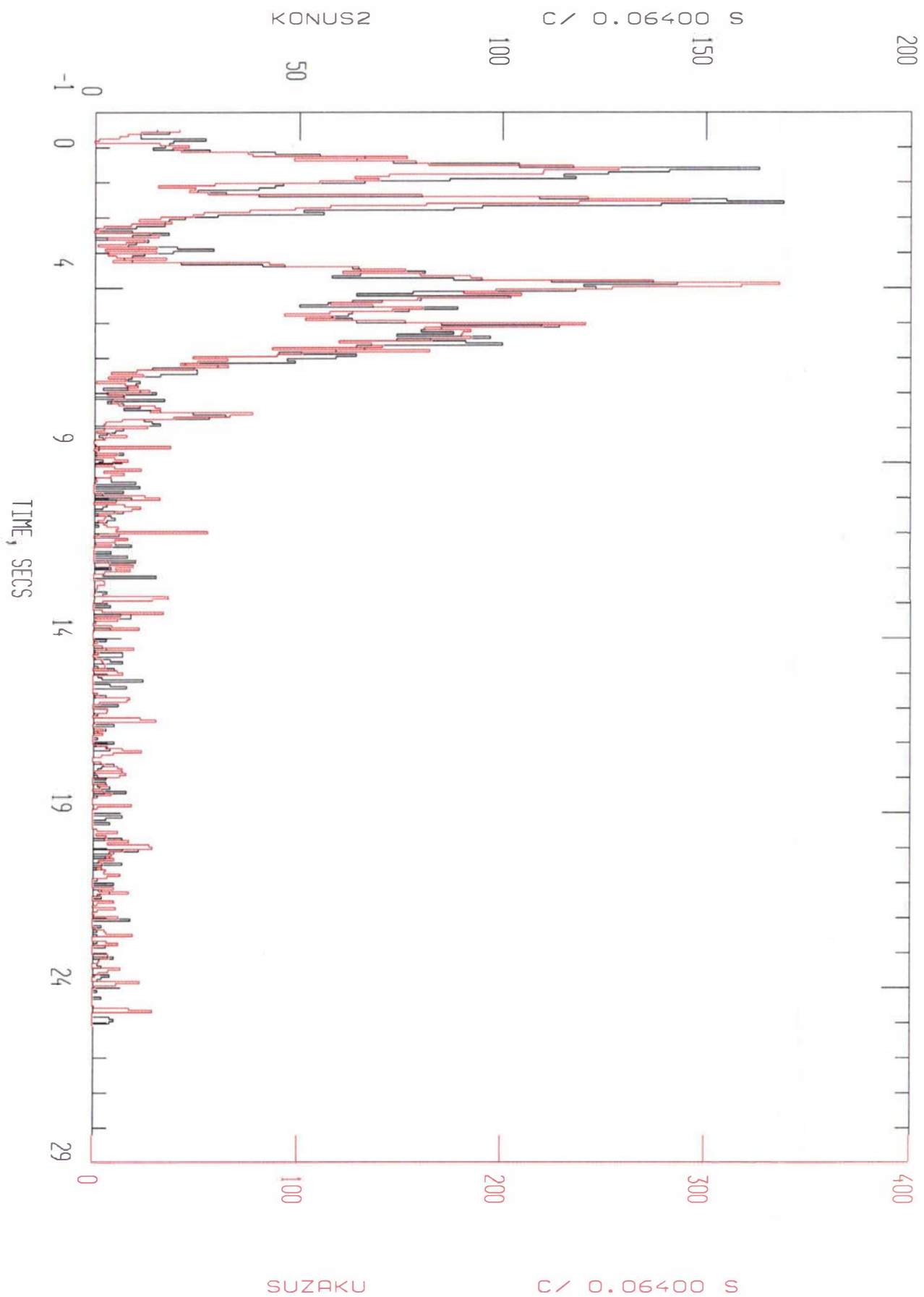


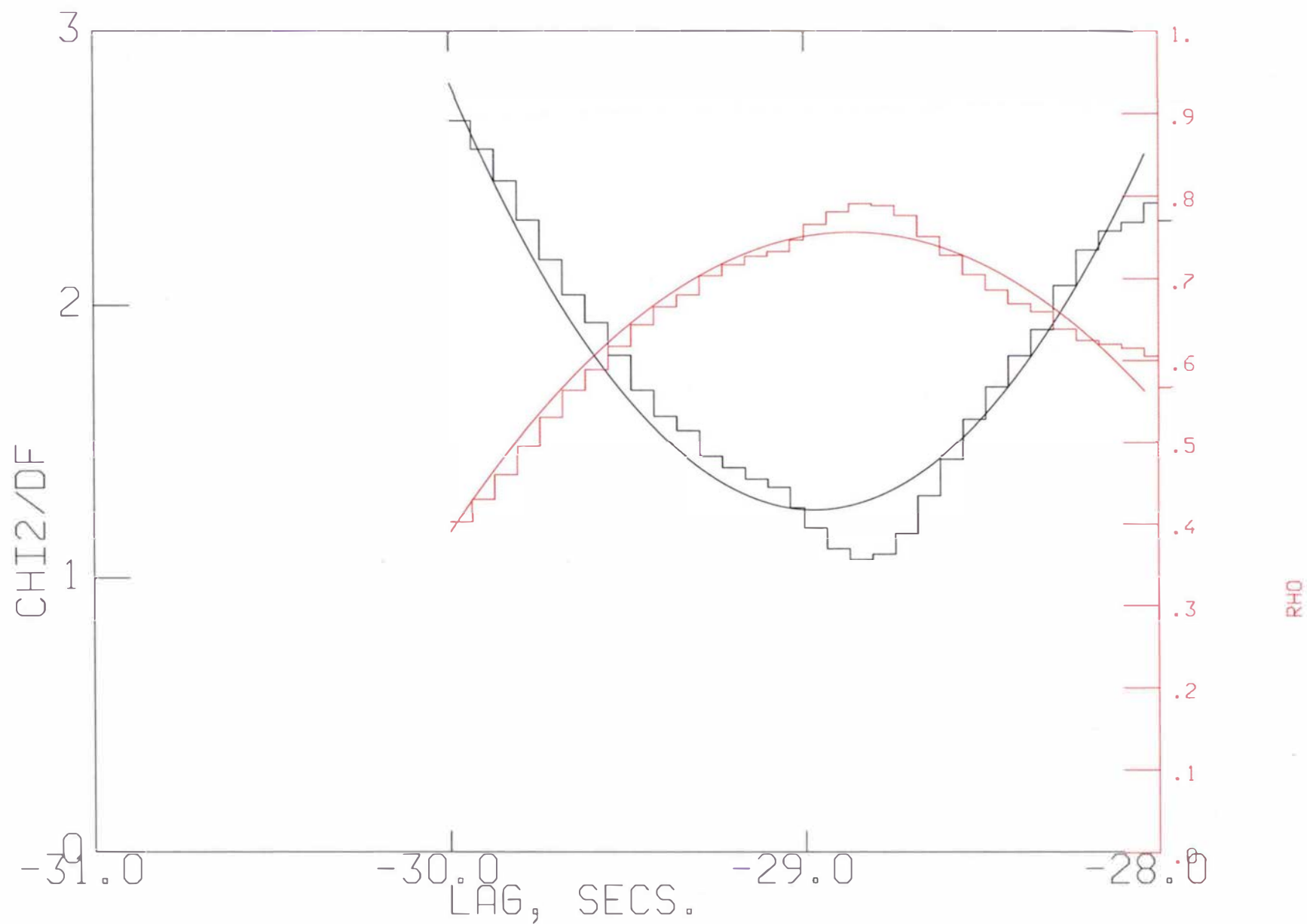


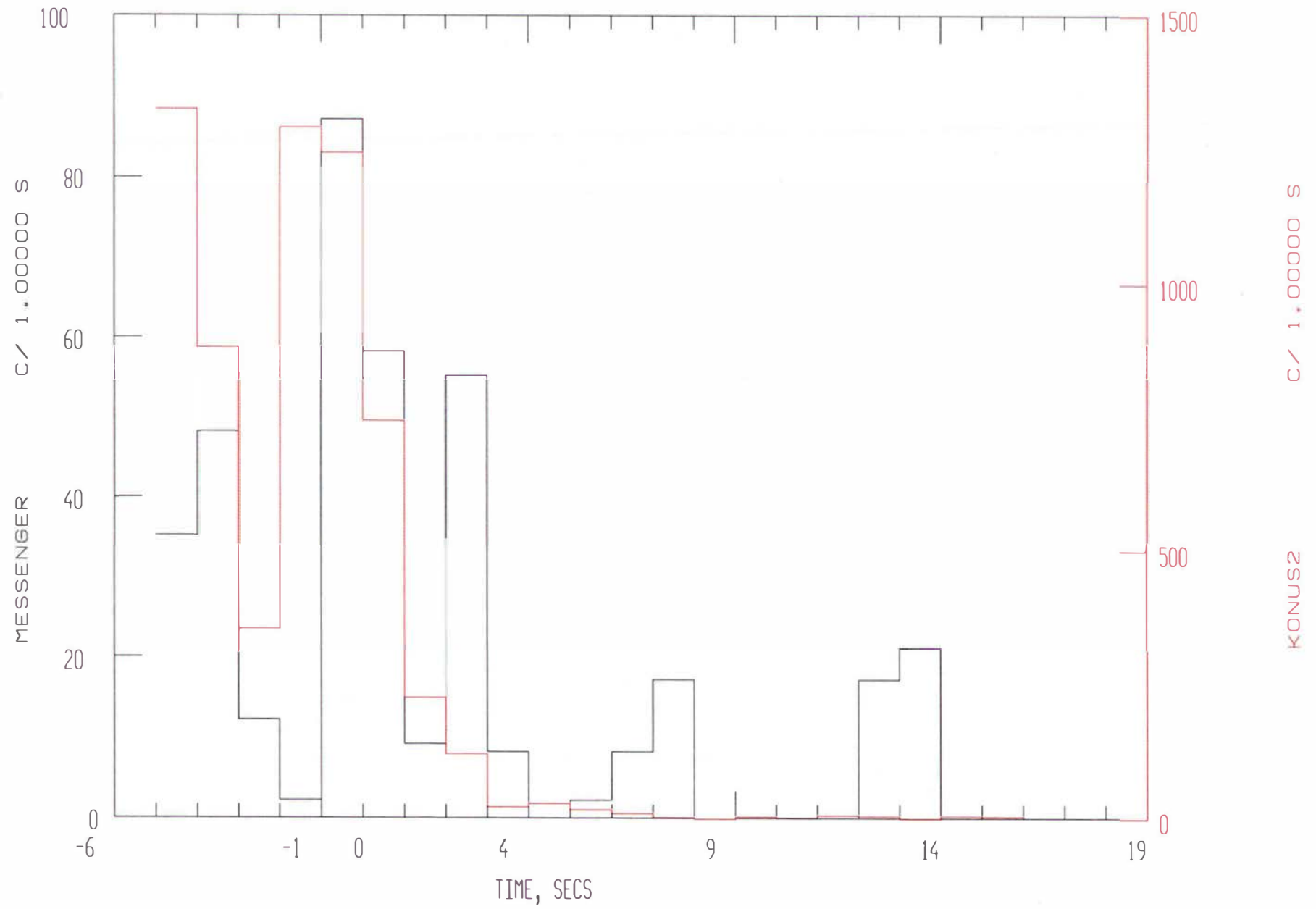












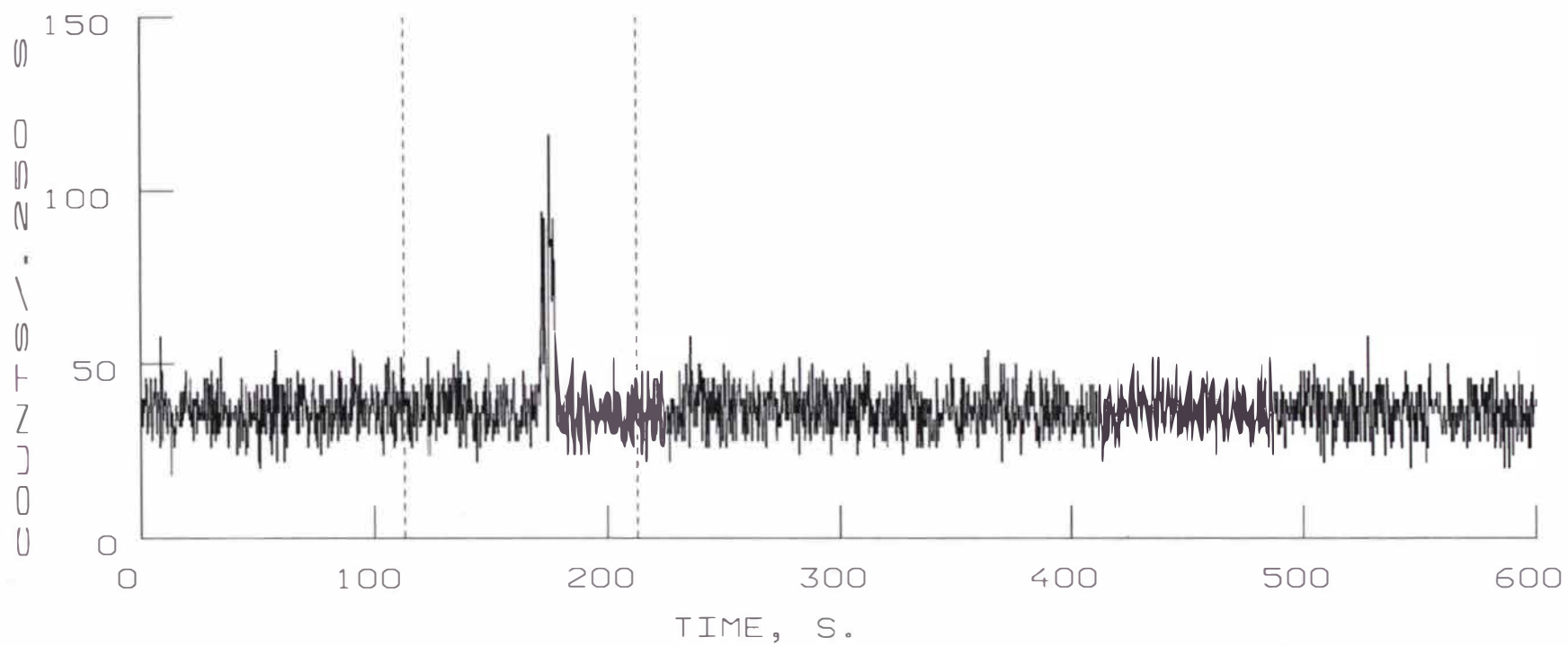
MS01 HEND

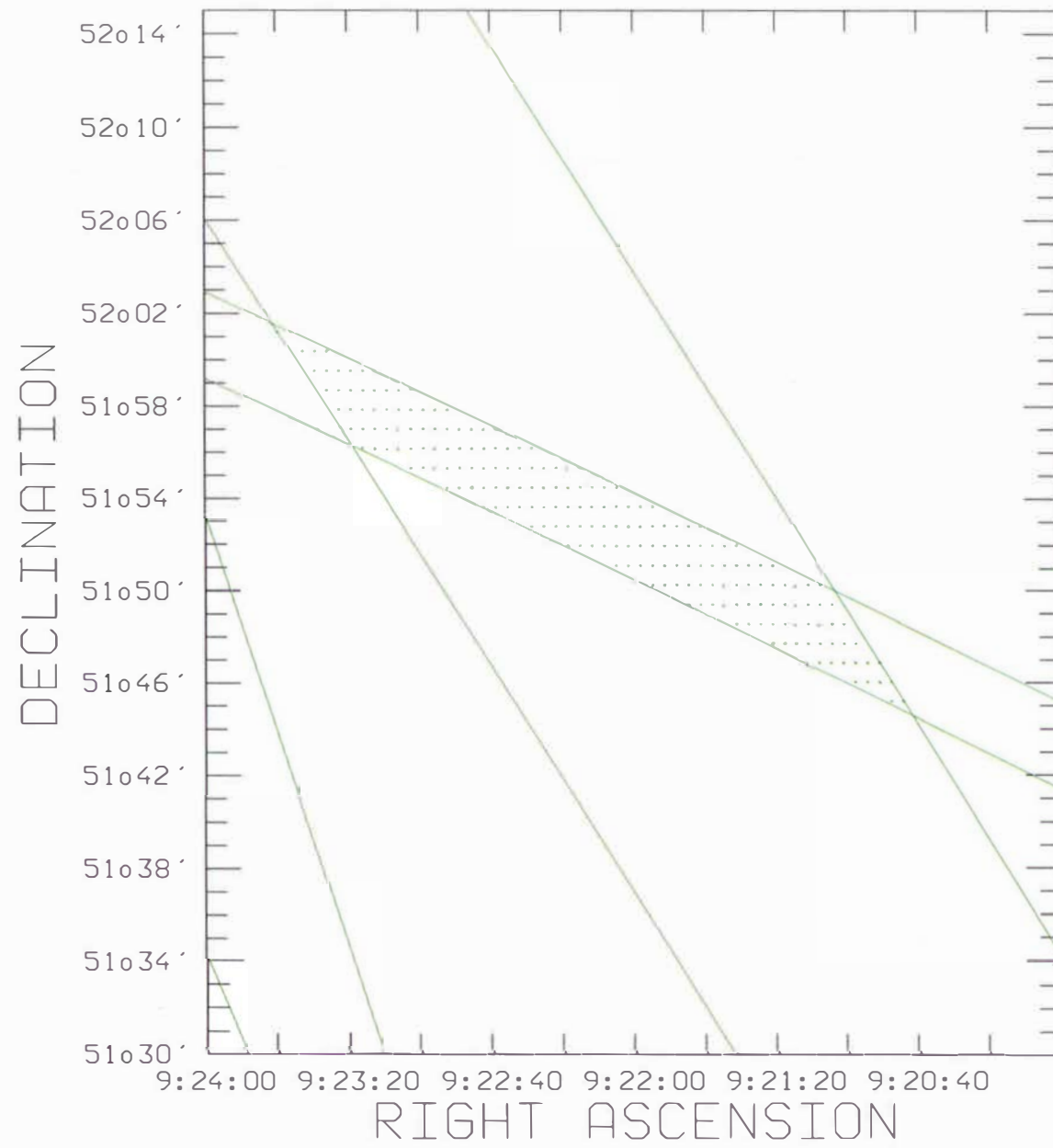
08/04/2013

28/04/2012 62266.262 s

50-3000 keV

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS





B

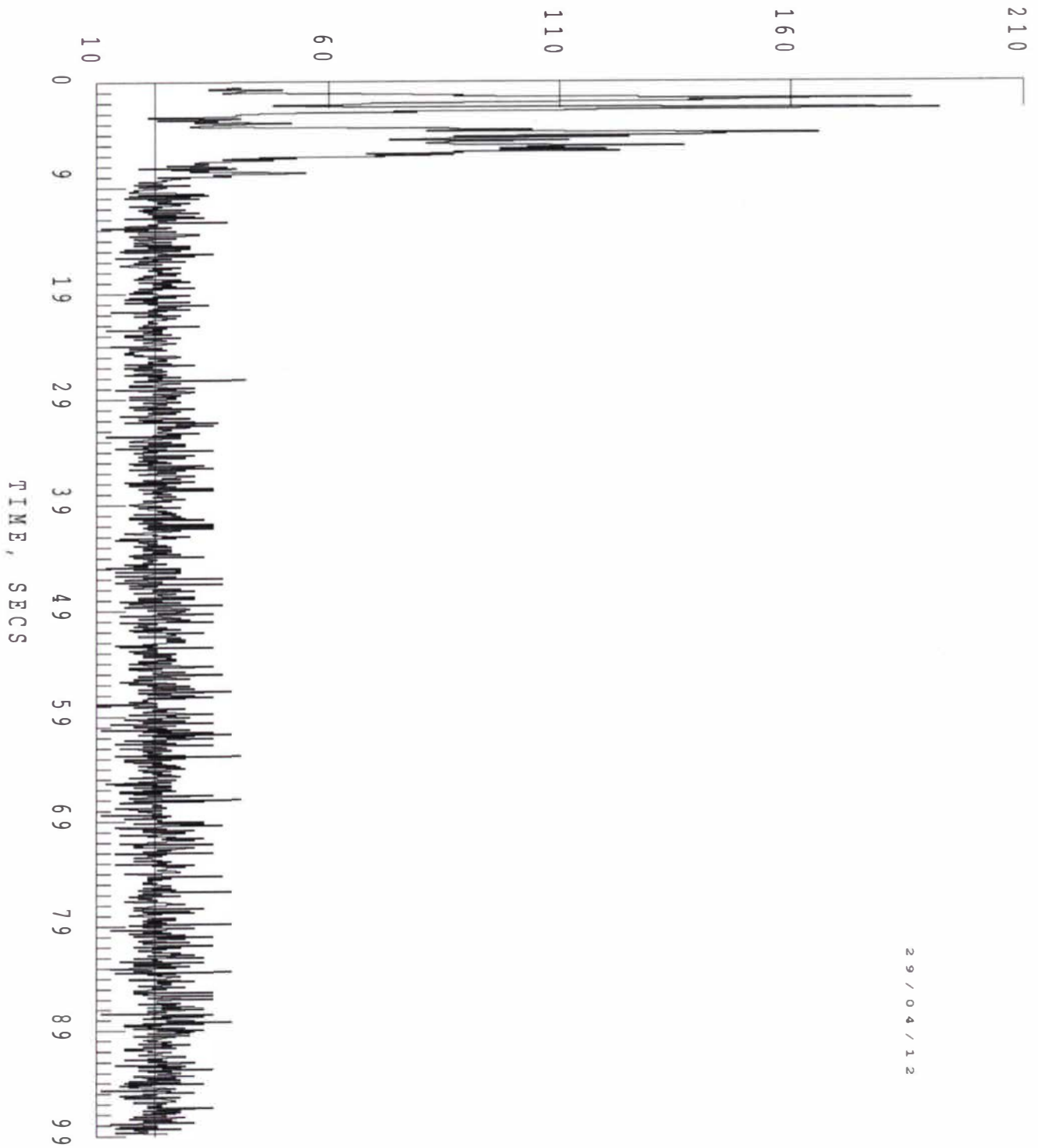
KONUS2

28/04/12

62778.281

50 - 200 keV

COUNTS/0.064 S



B

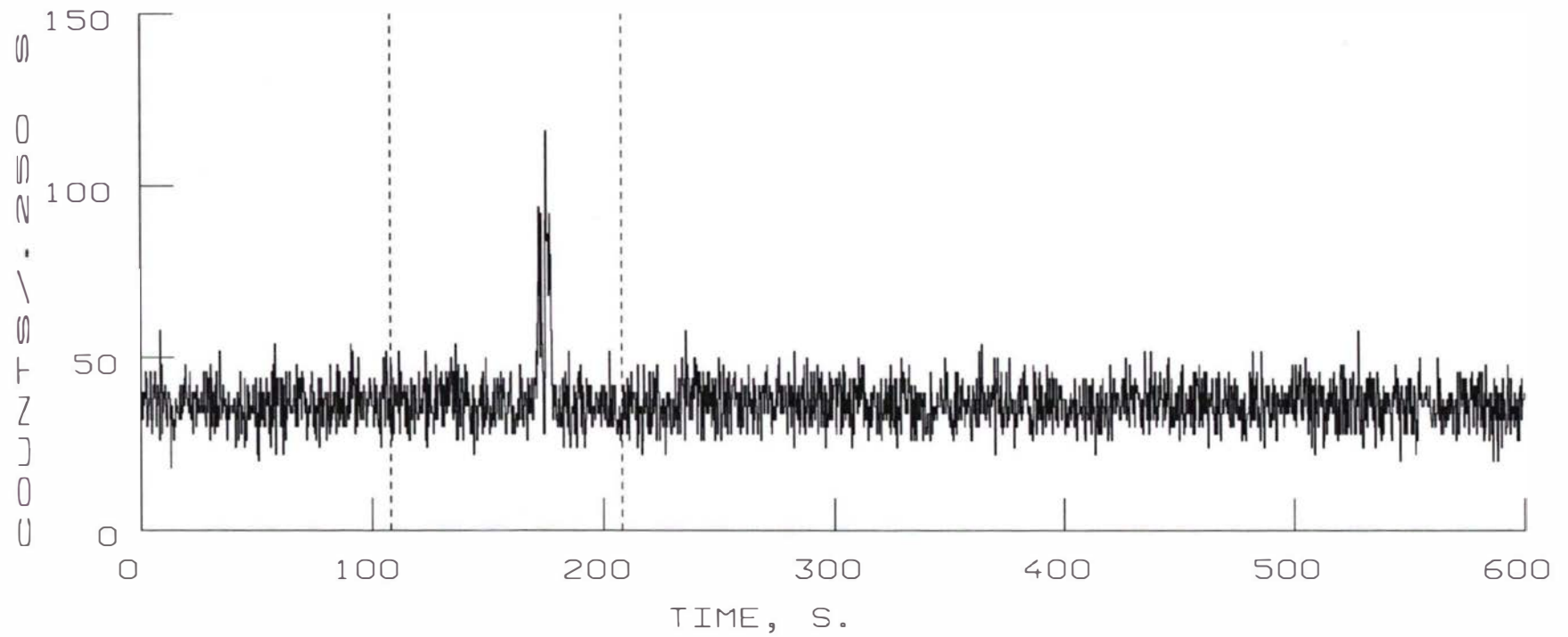
MS01 HEND

05/08/2015

28/04/2012 62266.262 s

50-3000 keV

N= 10 M=80
>4.0 SIGMA FLUCTUATIONS

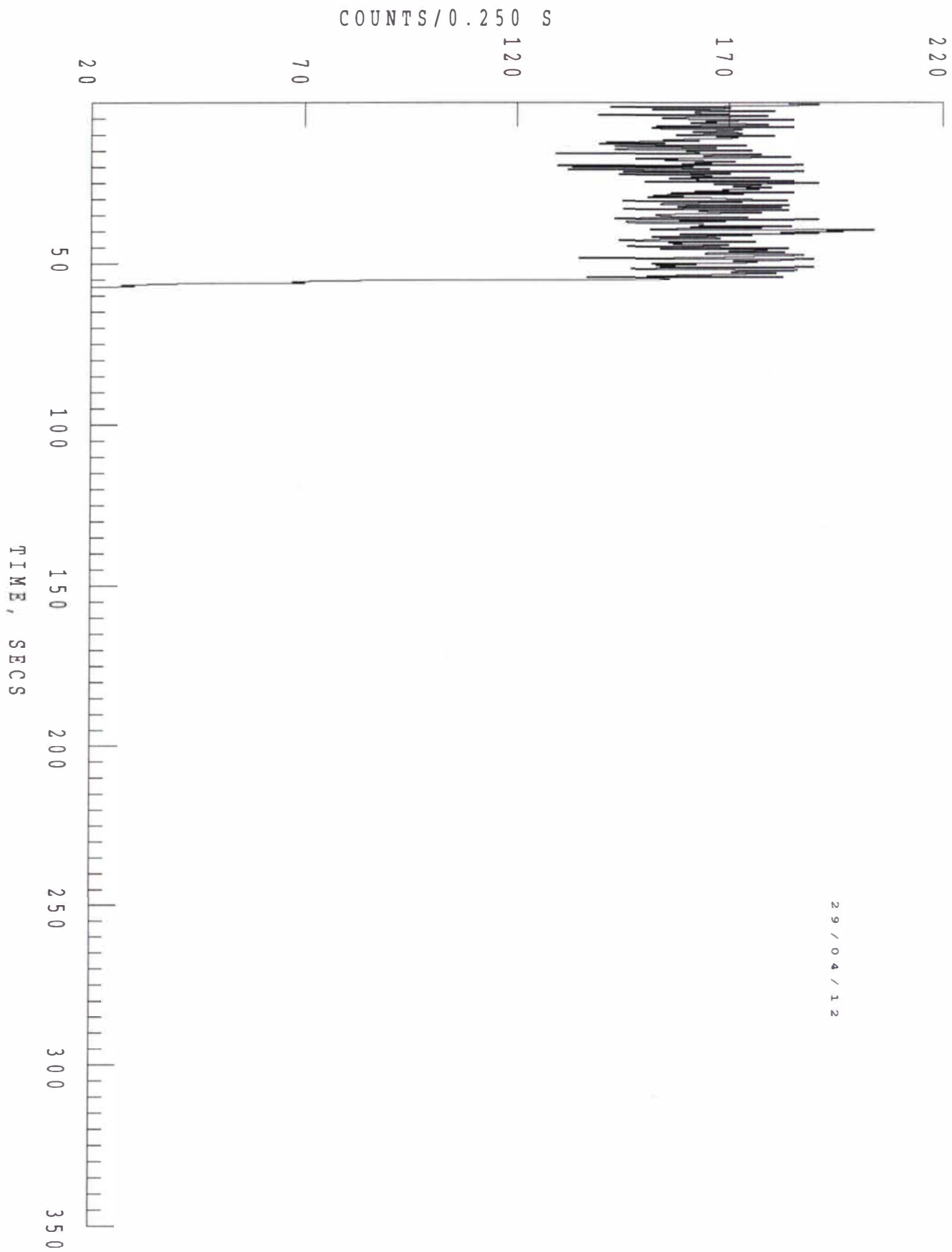


HESSI

28/04/12 62627.000 (KONUS2_20120428_62778)

B

25- 150 keV



B

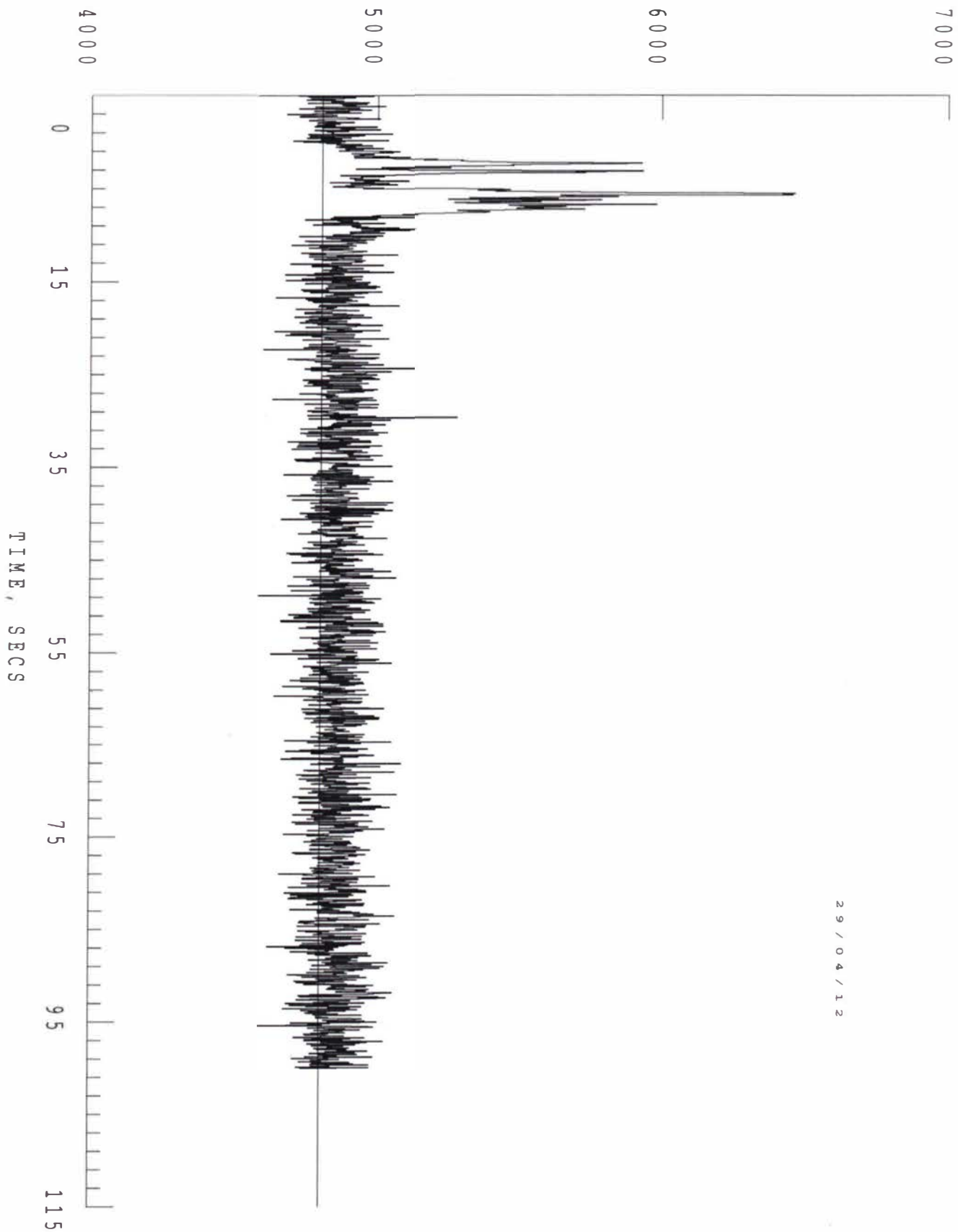
INTEGRAL

28/04/12

62777.324

100-10000 keV

COUNTS/0.050 S



B

Subject: [lpn] BAT lightcurve for trigger at 120428_1726

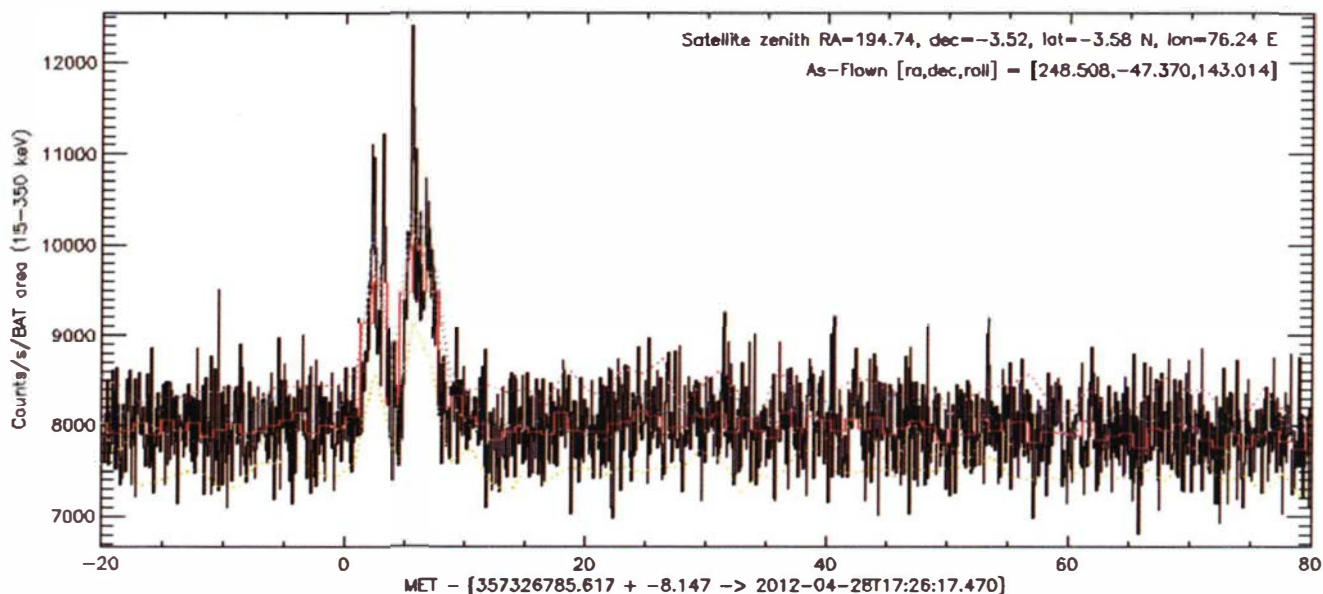
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/29/2012 11:17 PM

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/120428_1726.png



```
% /usr/local/bin/swinfo -o 357326785.617
Time(MET + UTC -> UT):      357326785.617 + -8.147 -> 2012-04-28T17:26:17.470
Swift Zenith(RA,dec):       194.74, -3.52
Swift Location(lon,lat,alt): 76.24 E, -3.58 N, 584 km
Obs Sequence Number:        00521085001
Obs Target Name:             N/A
Obs Date and Times:          2012-04-28 17:15:38 - 17:55:51
Obs Pointing(ra,dec,roll):   248.508, -47.370, 143.01
```

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

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

Attachments:

/tmp/120428_1726_bat64ms_ipn

87.1 KB

/tmp/120428_1726.png

18.7 KB

B

19/07/12

MESSENGER

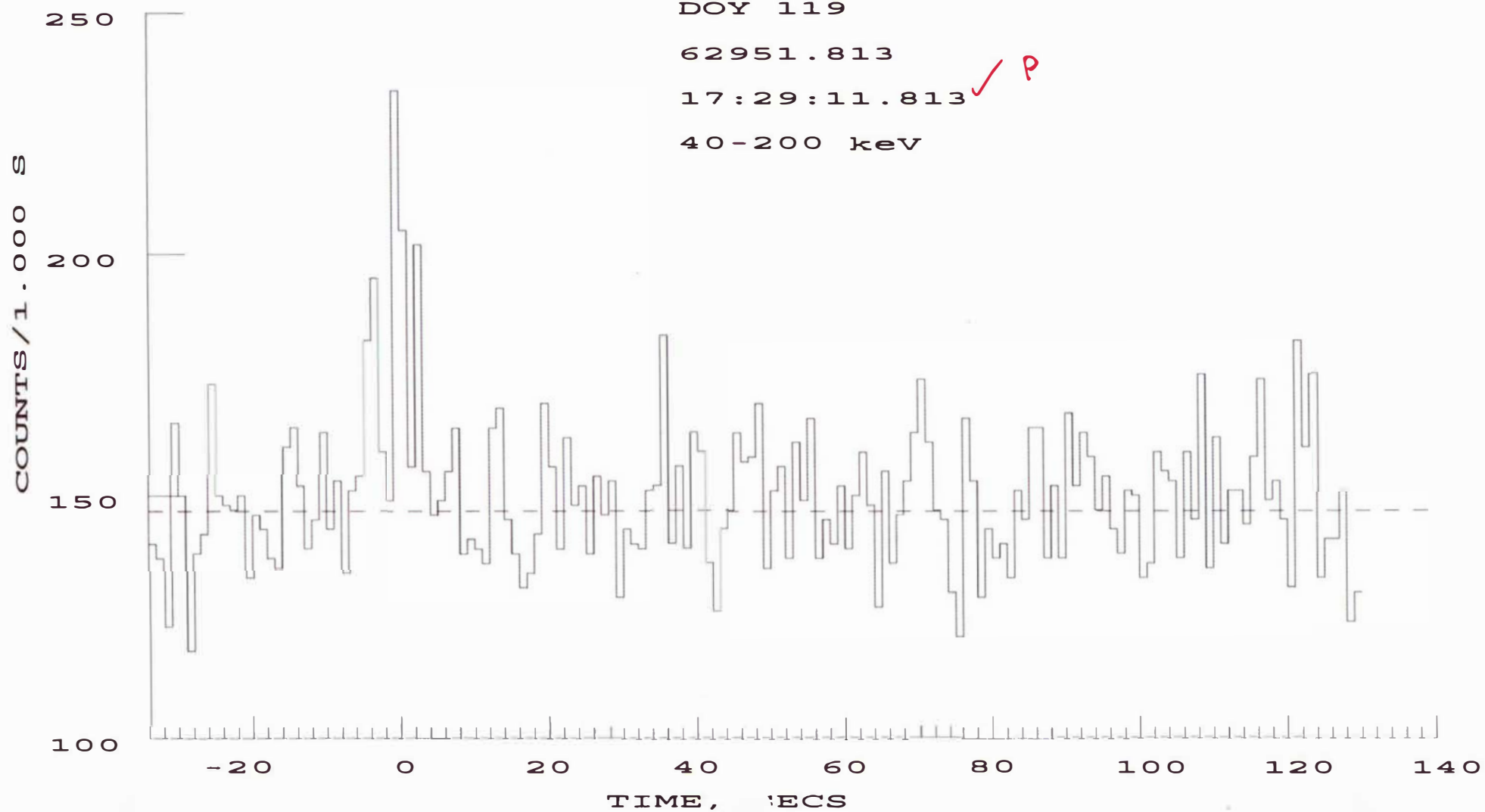
28/04/12

DOY 119

62951.813

17:29:11.813 ✓ P

40-200 keV



SUZAKU

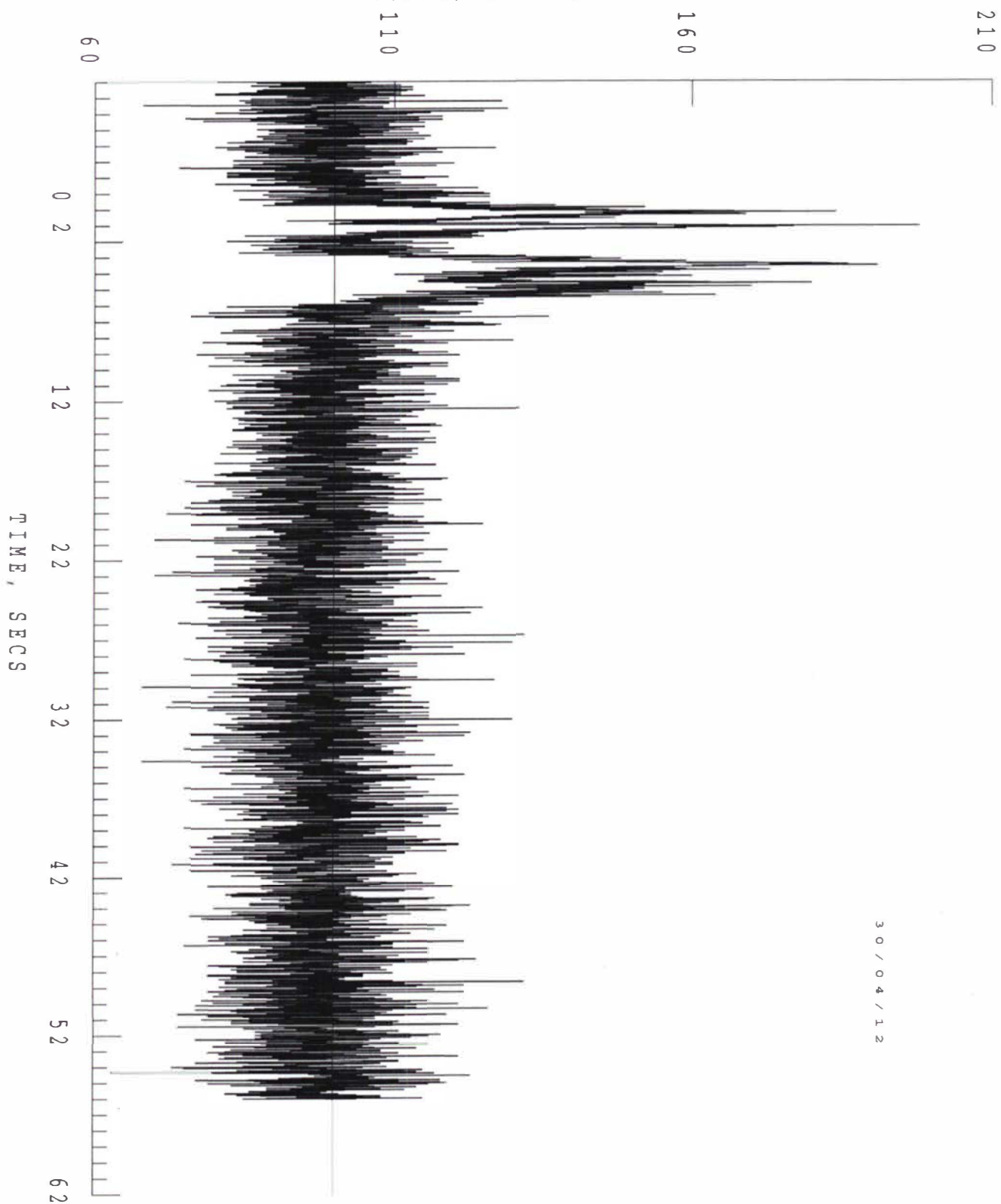
28/04/12

62779.483 17:26:19

B

50 - 240 keV

COUNTS/0.016 S



Date: Apr 10 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?

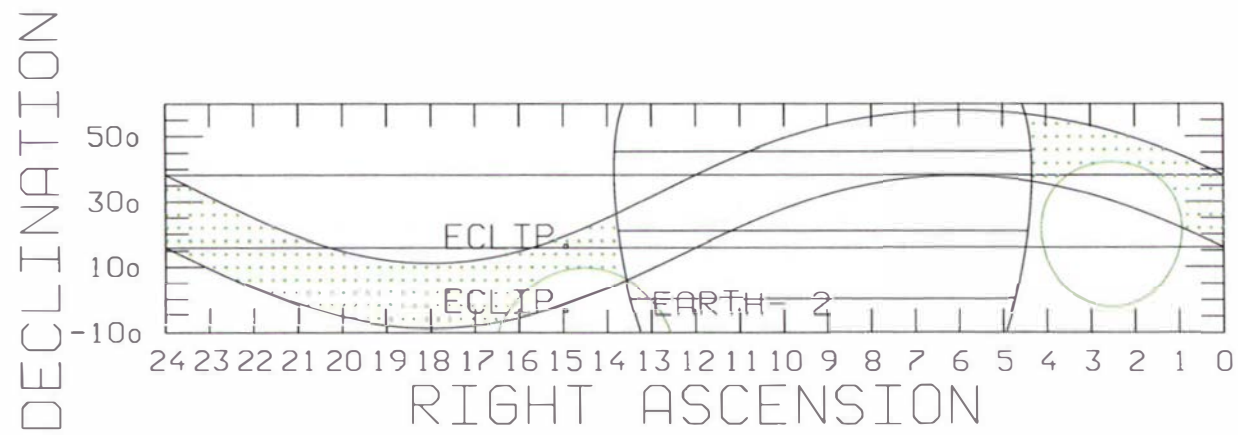
6. For 3 or More Spacecraft events

- ☐ $\Sigma 3\Delta t$'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-ipncl.pl>)

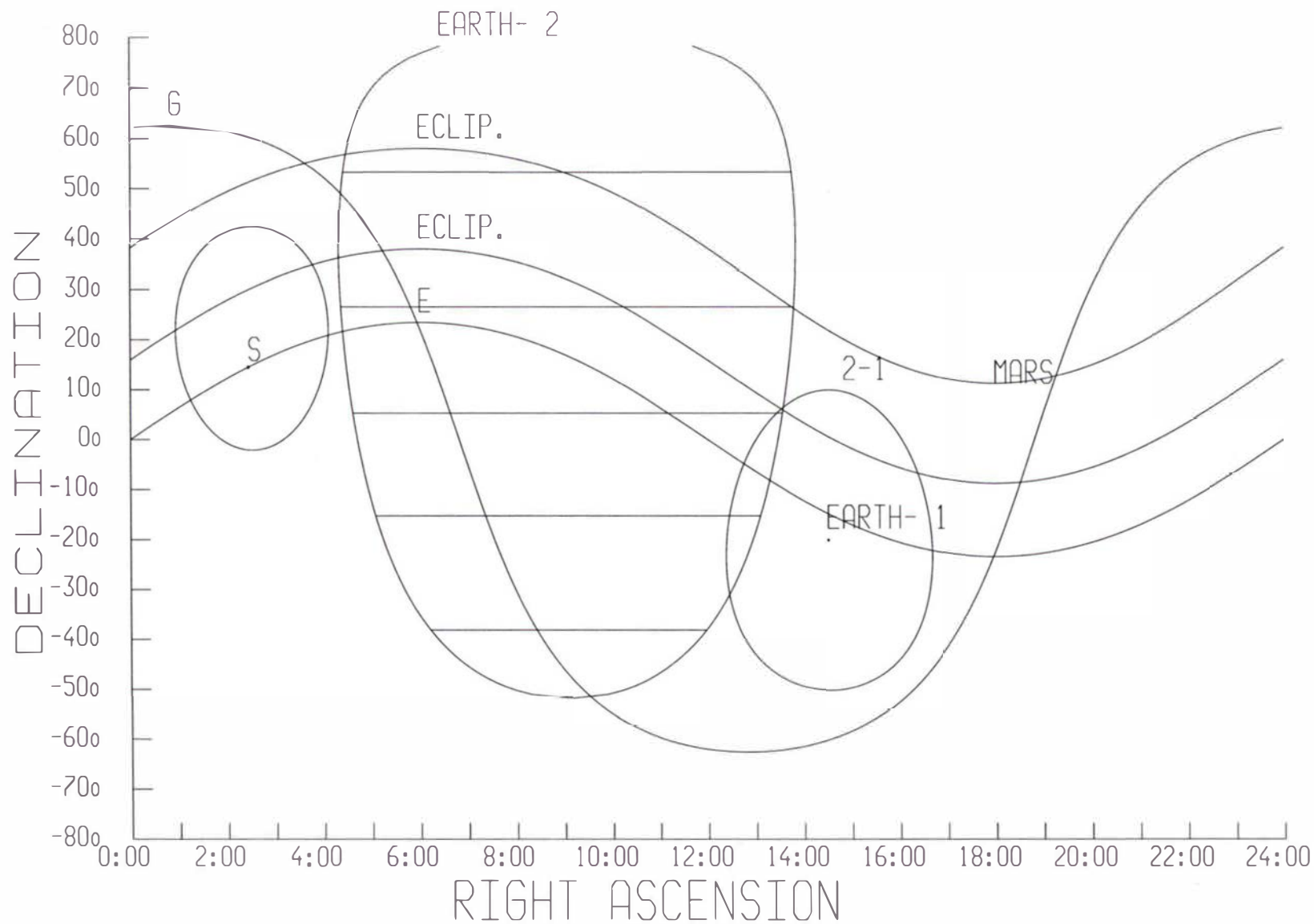
☒ ACCESS and MBL4 databases updated, with identical times?

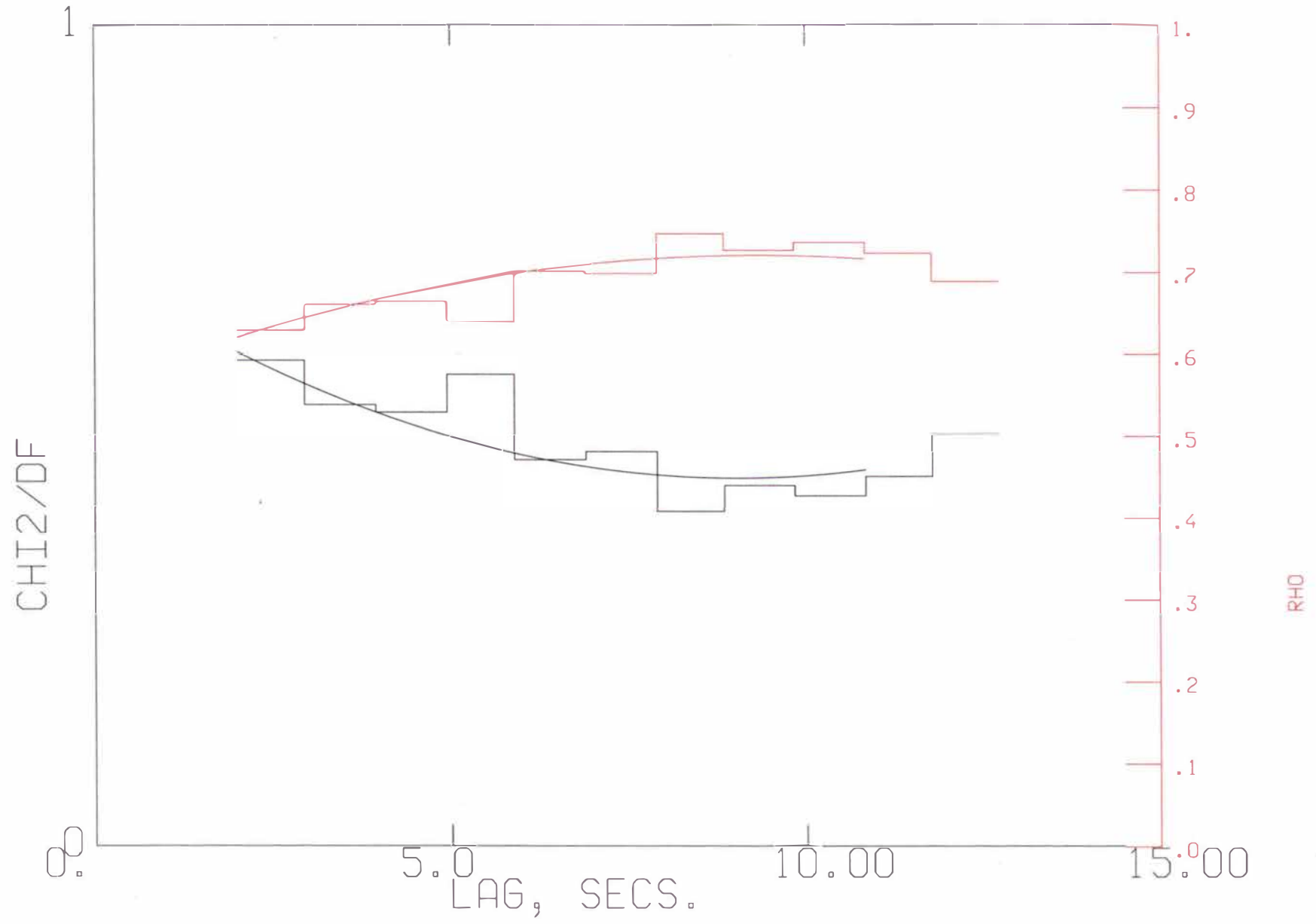


EVENT OF APR 28, 2012 22:48

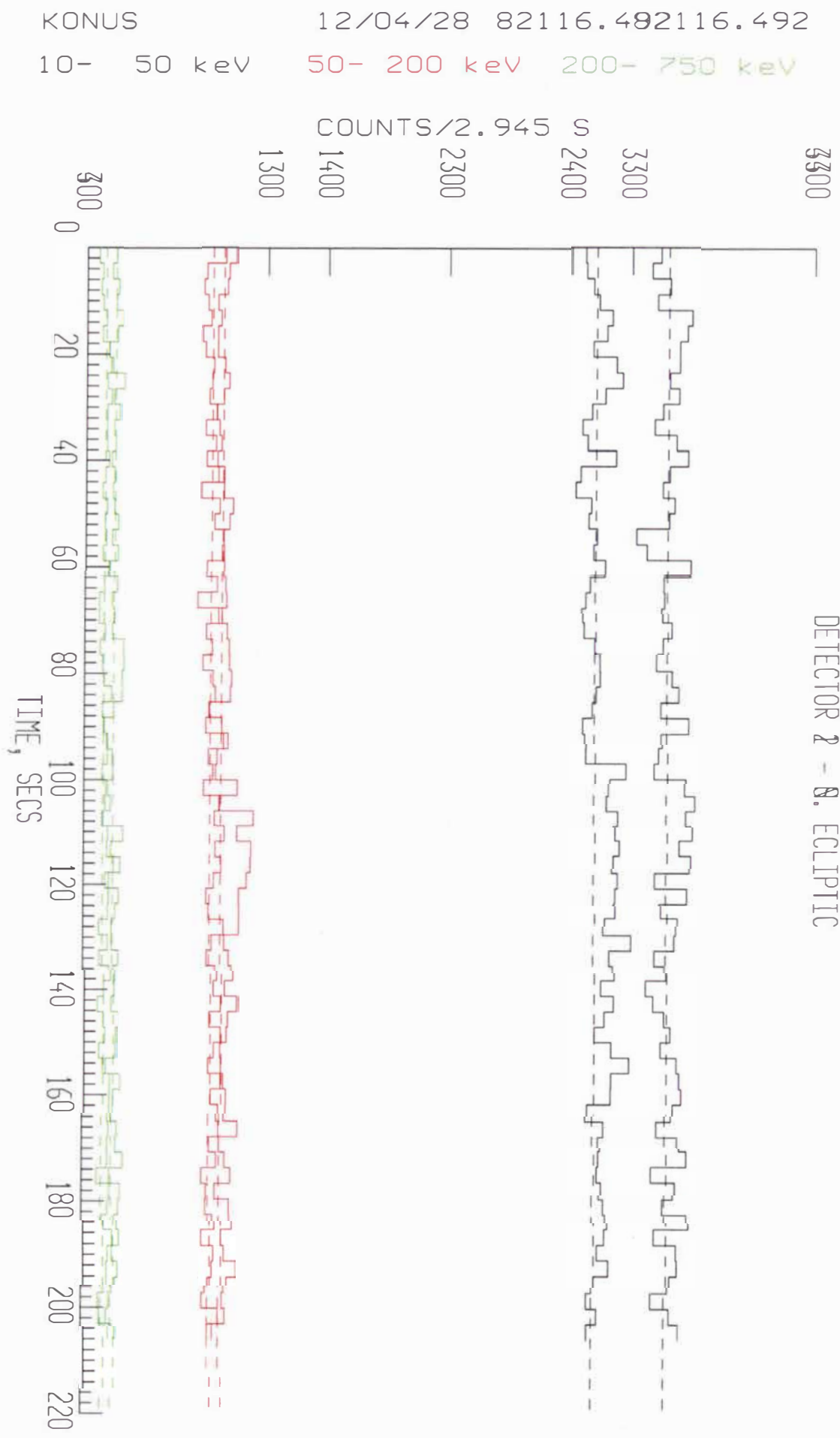
10/04/2013

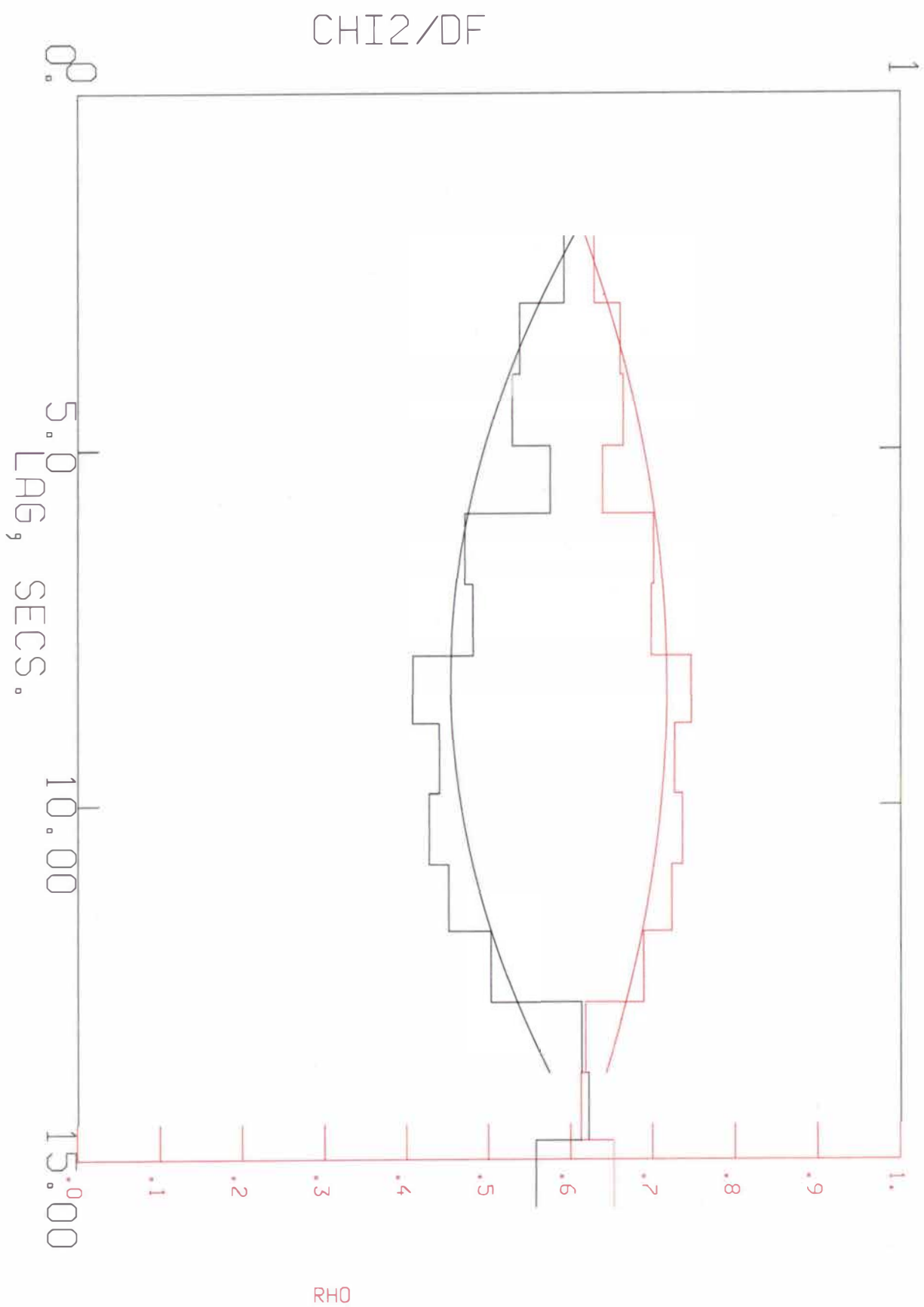
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN
1 KONUS
E=ECLIPTIC
2 SUZAKU
G=GALACTIC EQUATOR





DETECTOR 2 - 0. ECLIPSE





KONUS

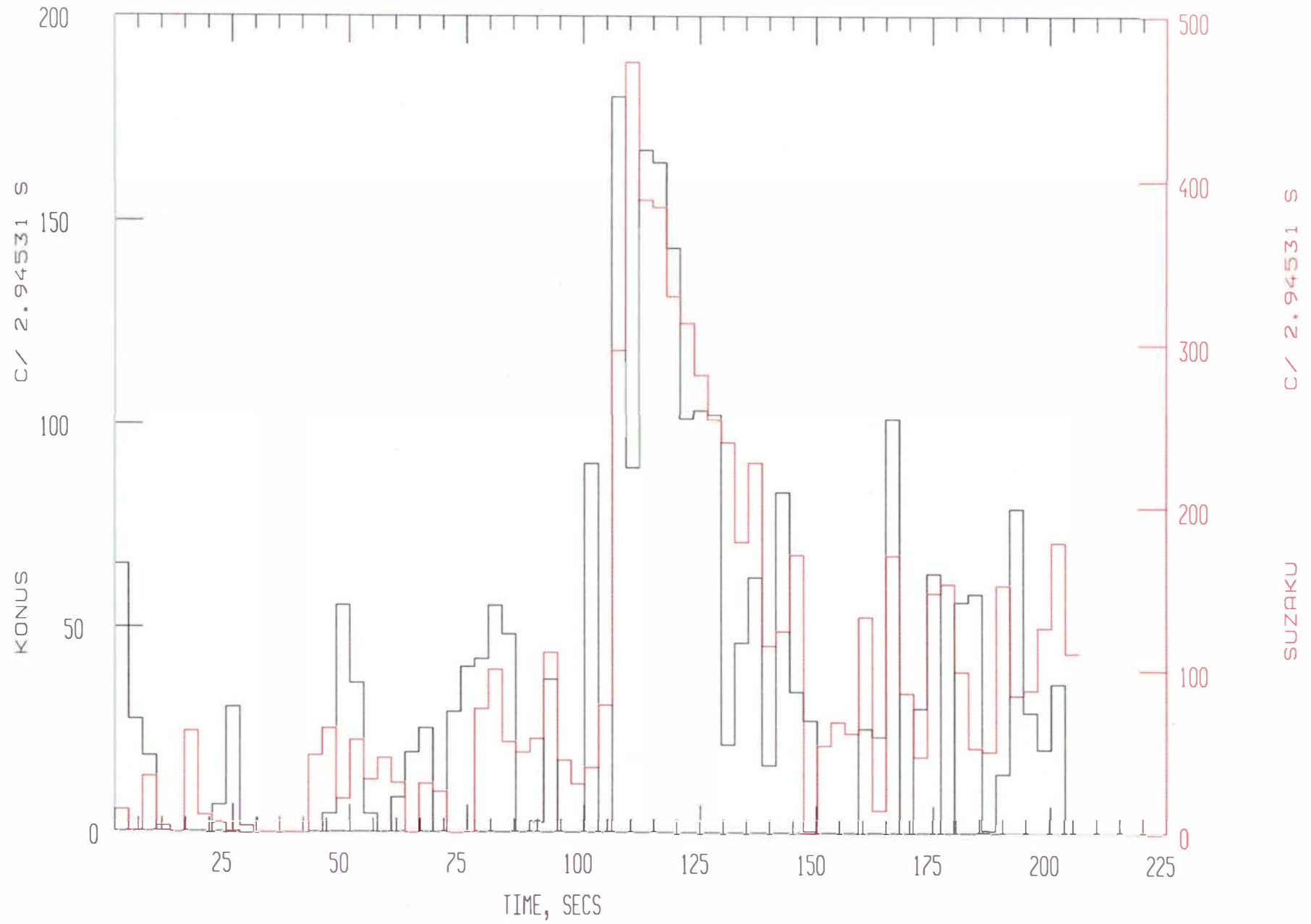
-SUZAKU

CORRELATION

28/04/12

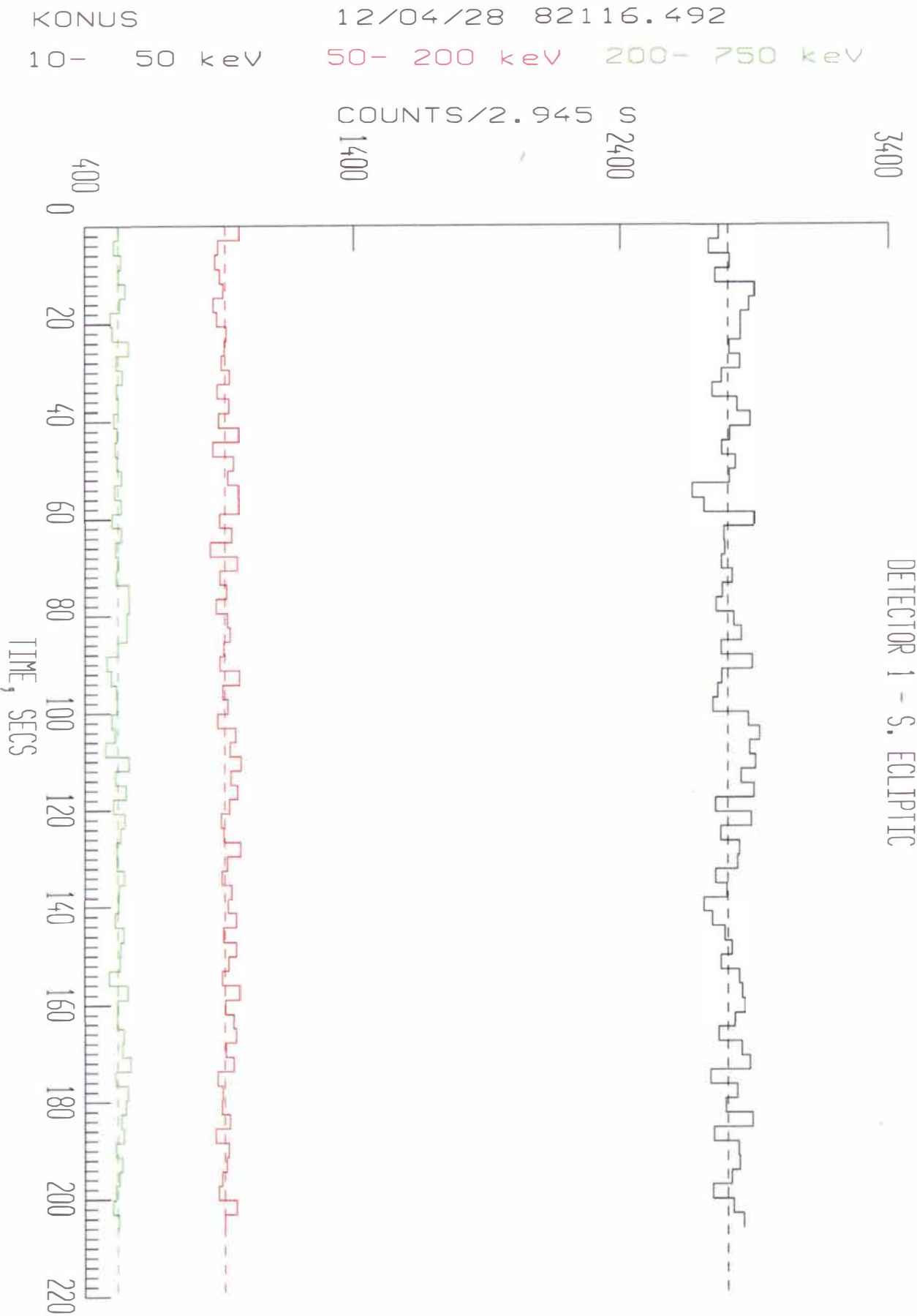
82116.492

10/ 4/13



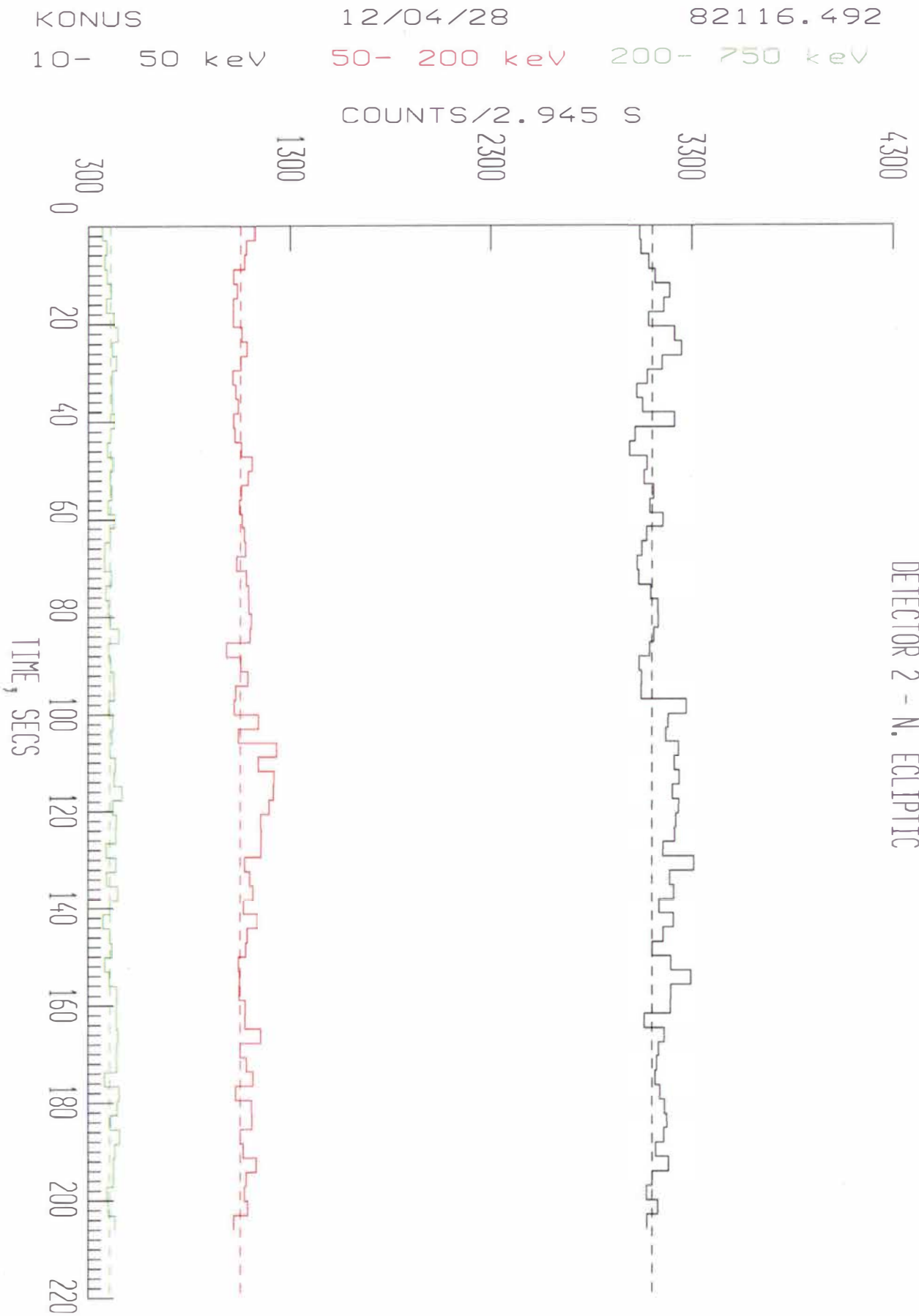
10/04/2013

DETECTOR 1 - S. ECLIPSE



10/04/2013

DETECTOR 2 - N. ECLIPIC



Subject: Suzaku/WAM TRN AUTOMATIC SEARCH: ae20120428_1742_1738_hxd_wam.uff

From: aetouban@astro.isas.jaxa.jp (Astro-E2 USC Duty Scientist)

Date: 4/30/2012 11:03 AM

To: hxd-grb@astro.isas.jaxa.jp, khurley@ssl.berkeley.edu, val@mail.ioffe.ru

2012-04-28 22:50:08 3.8896861098180425e+08 5.6

2012-04-29 19:55:47 3.8904454996993285e+08 8.6

2012-04-30 04:33:51 3.8907563396507359e+08 5.1

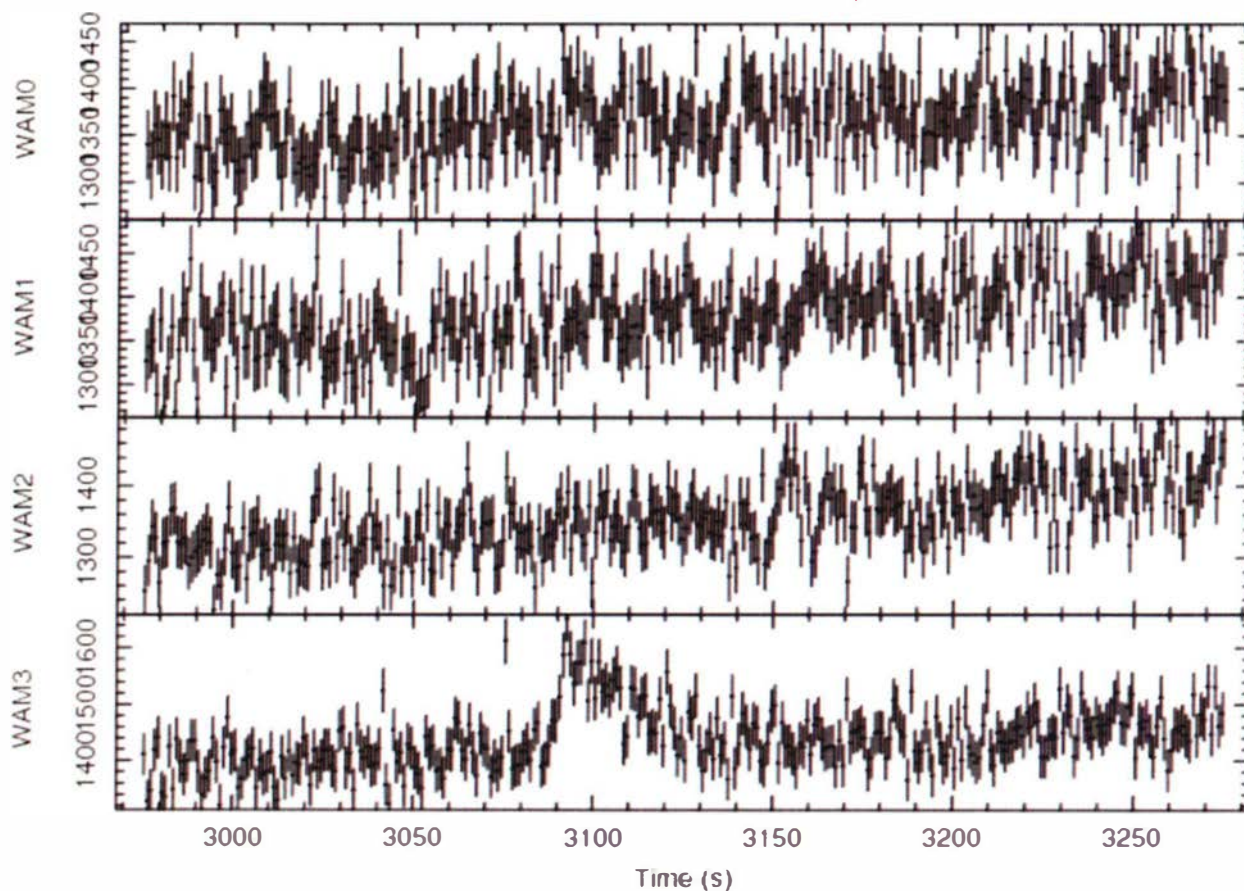
2012-04-30 04:34:03 3.8907564596507168e+08 5.3

Candidate GRB 45,

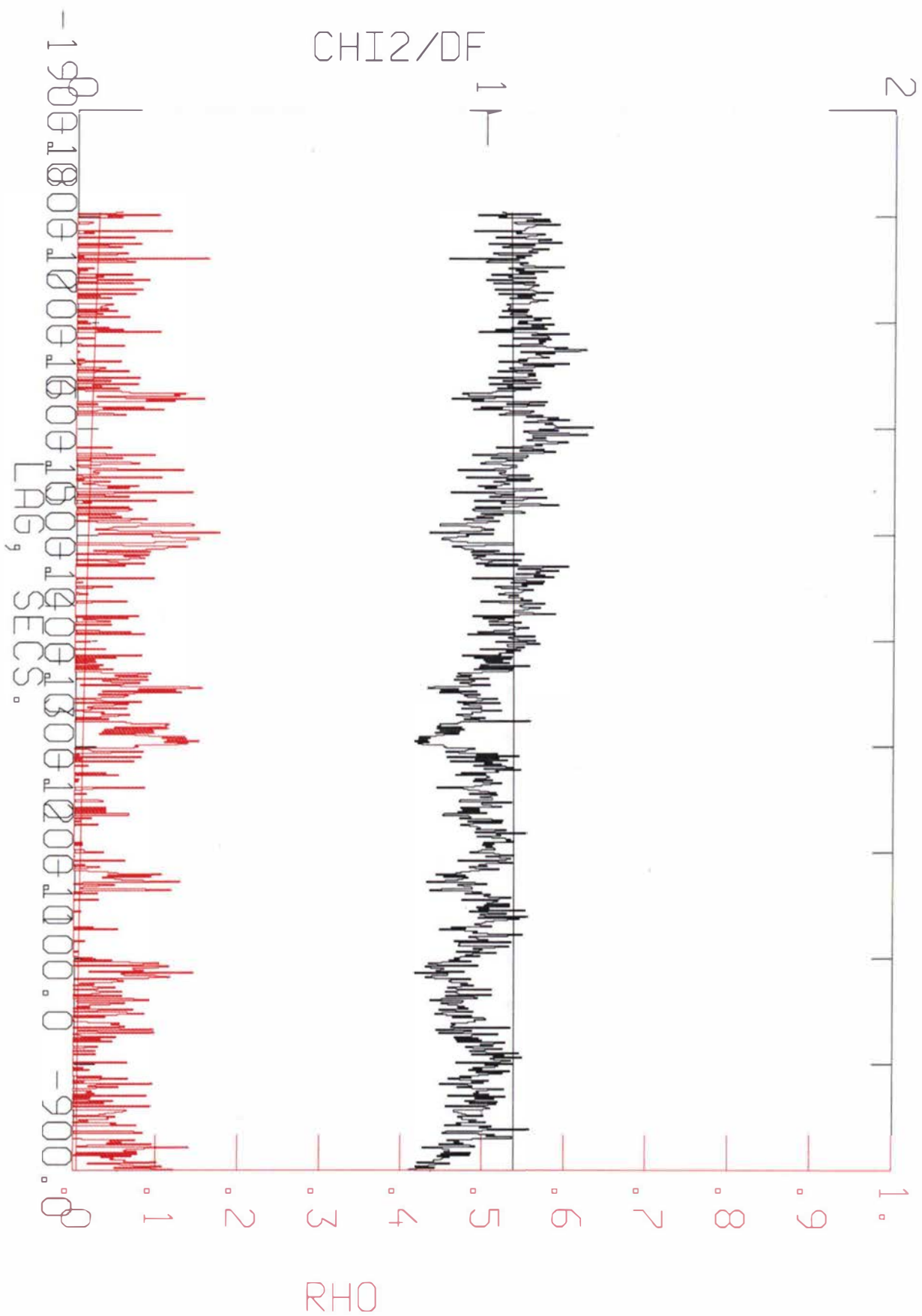
82208

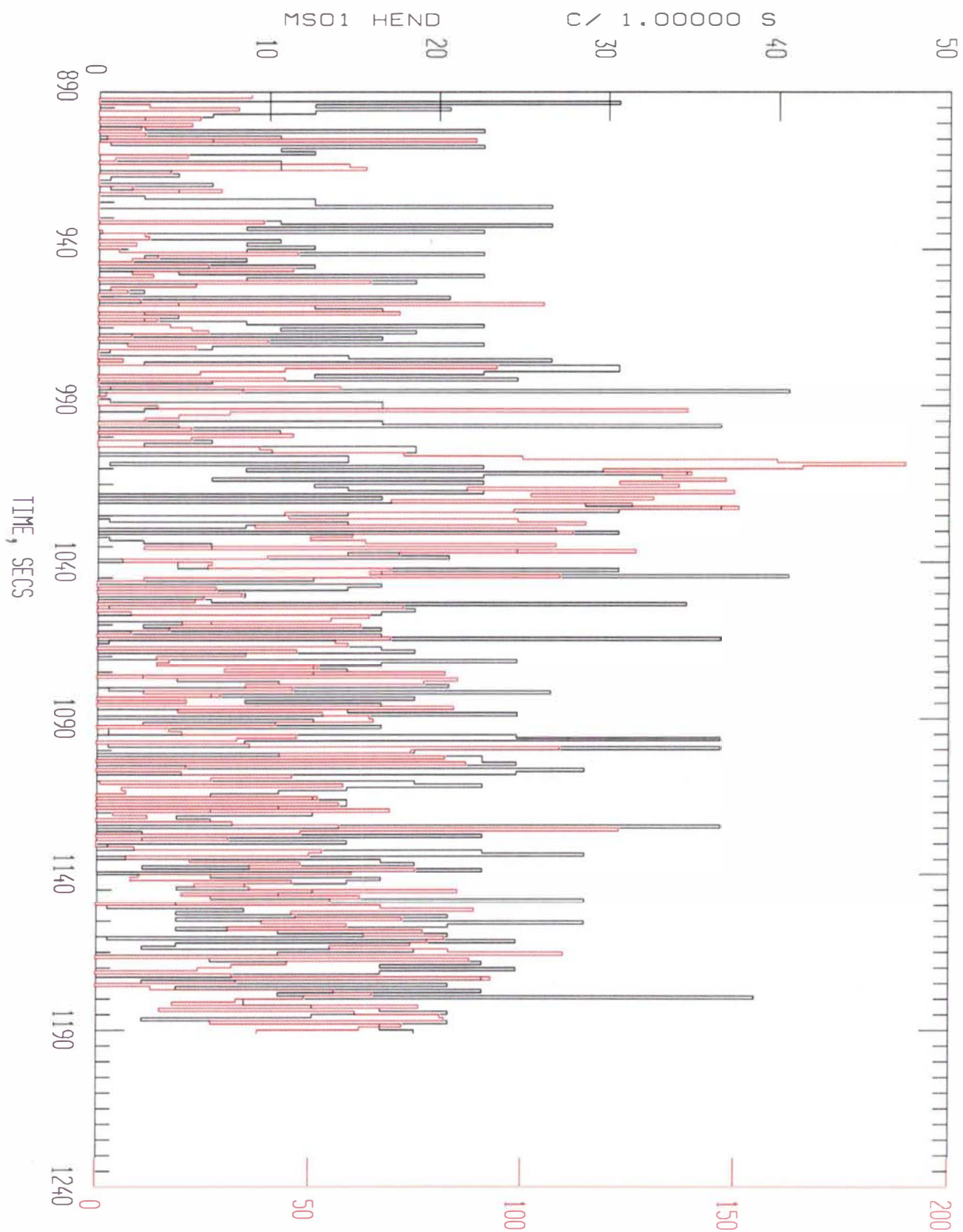
TRN AUTOMATIC SEARCH 2012/04/28 225008

Bin time: 1.000 s



Start Time 16045 22:49:35.666 Stop Time 16045 22:54:34.666





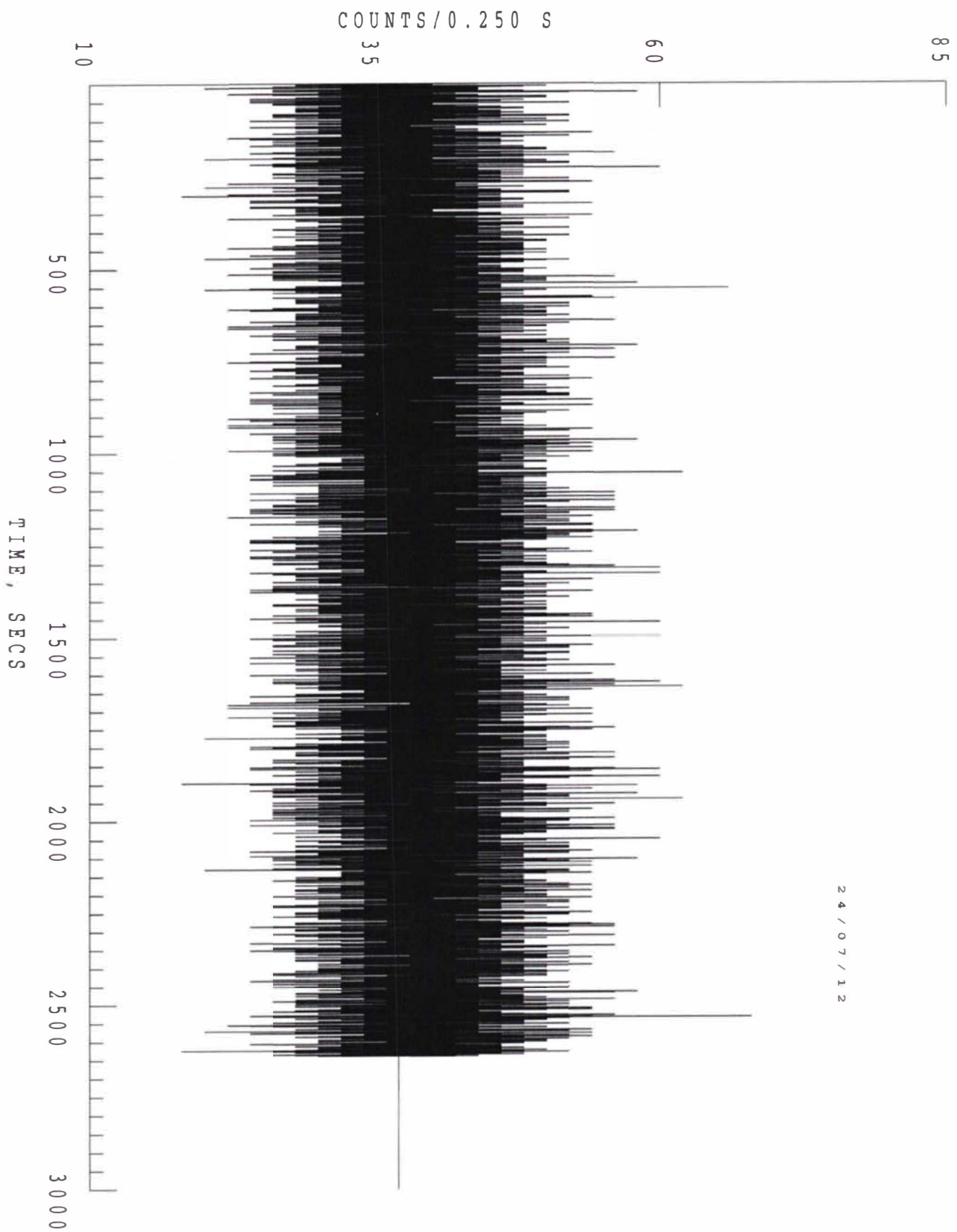
MS01

28/04/12

80865.920

50 - 3000 keV

C



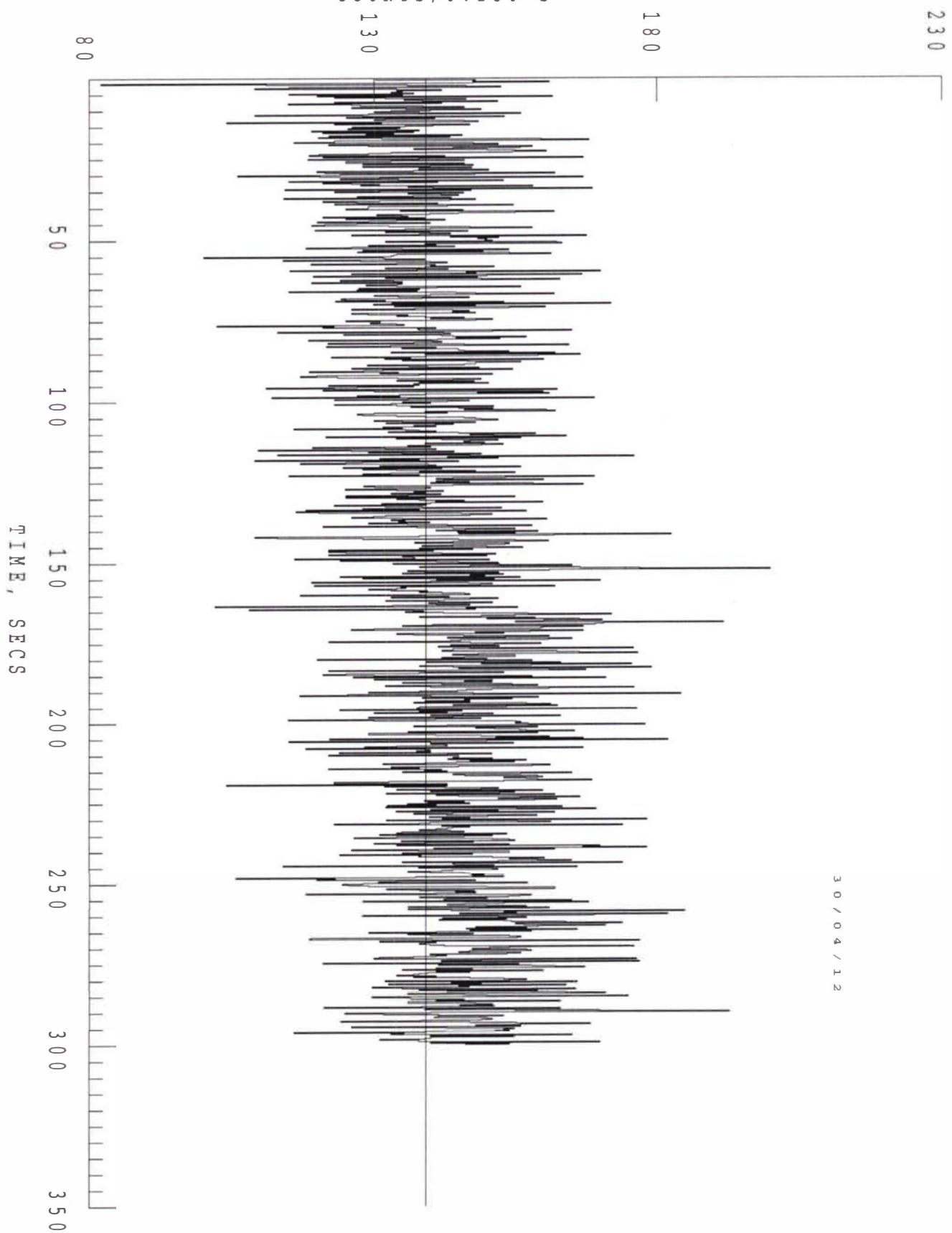
HESSI

28/04/12 82058.000 (SUZAKU_20120428_82208)

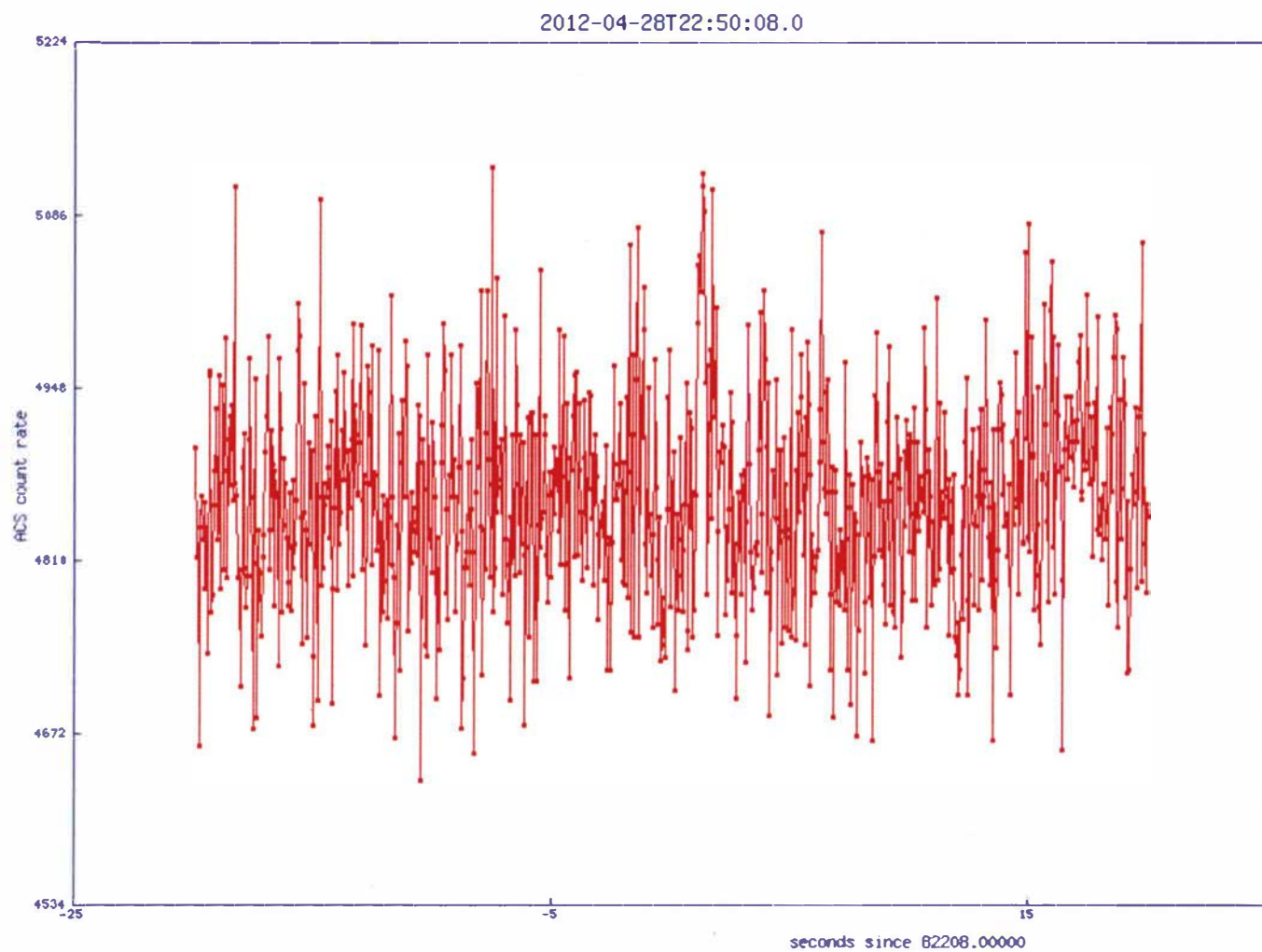
C

25- 150 keV

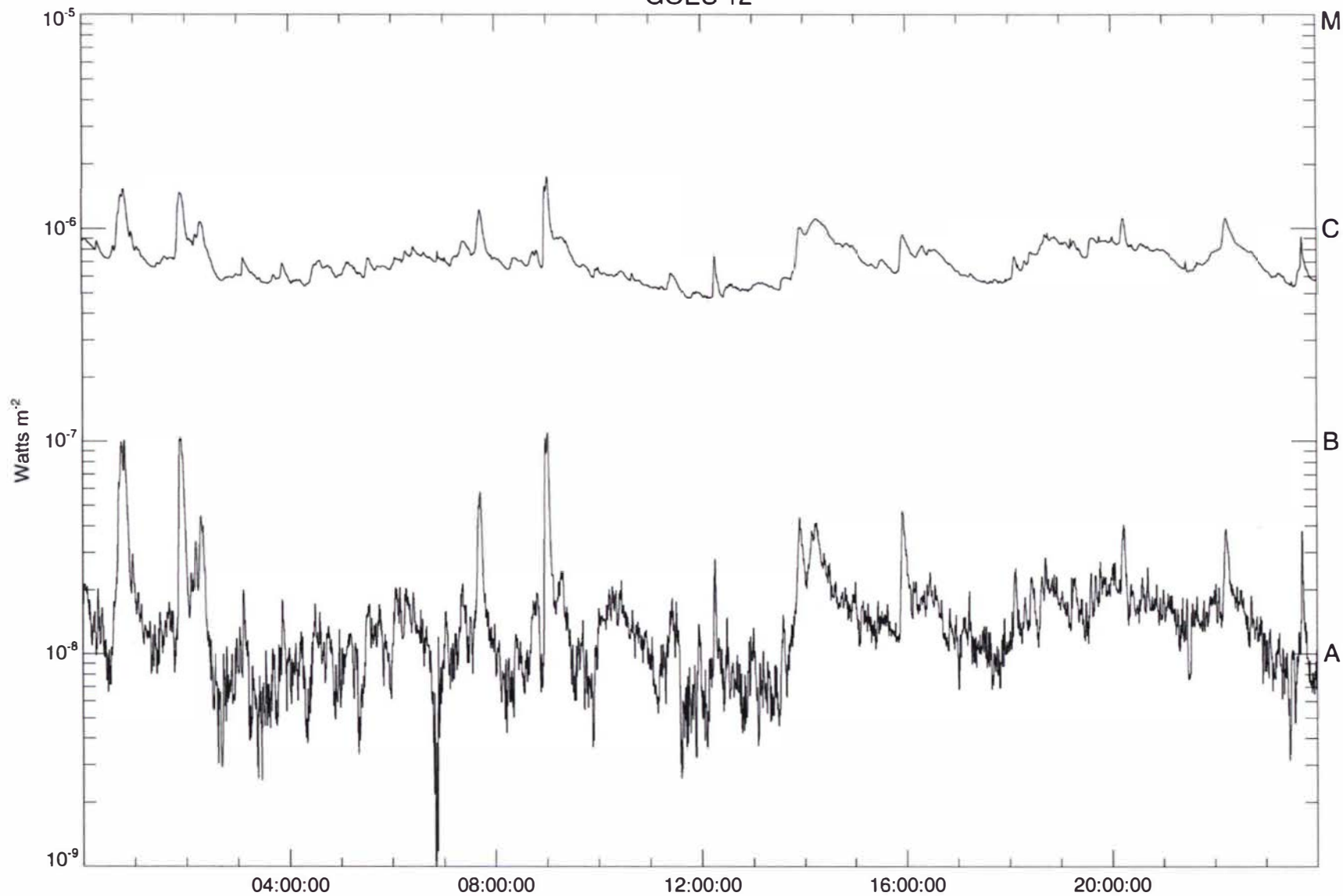
COUNTS/0.250 S



C



GOES 12



Data Start: 12/04/28, 0000:10

Plot created: 12/05/01, 0840

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

GLAST

29/04/12

247.264

00:04:07

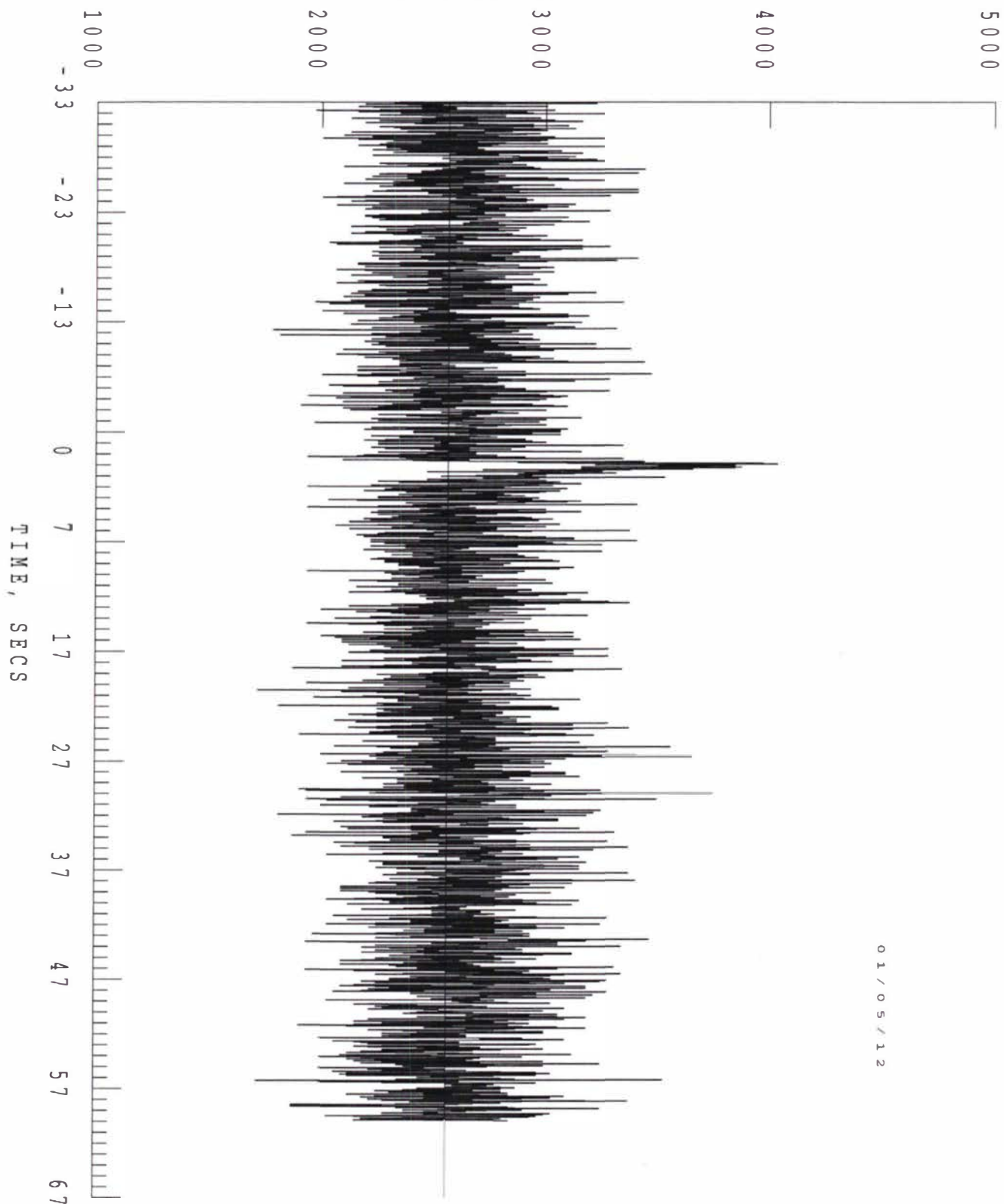
A

26- 293 keV

165.98, -7.24, 15.4

Unoccluded MCT = 86214

COUNTS/0.032 S



A

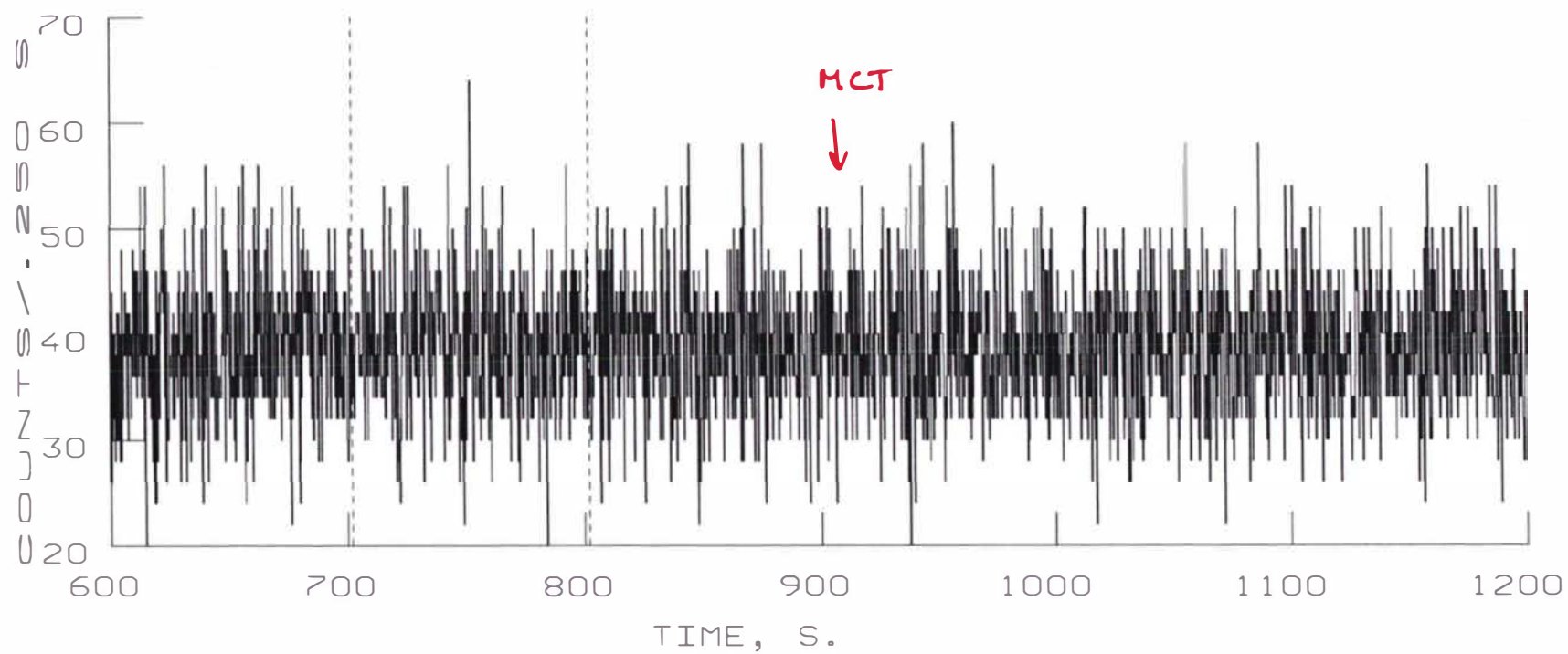
MS01 HEND

20/07/2012

28/04/2012 85305.852 s

50-3000 keV

MAXIMUM



HESSI

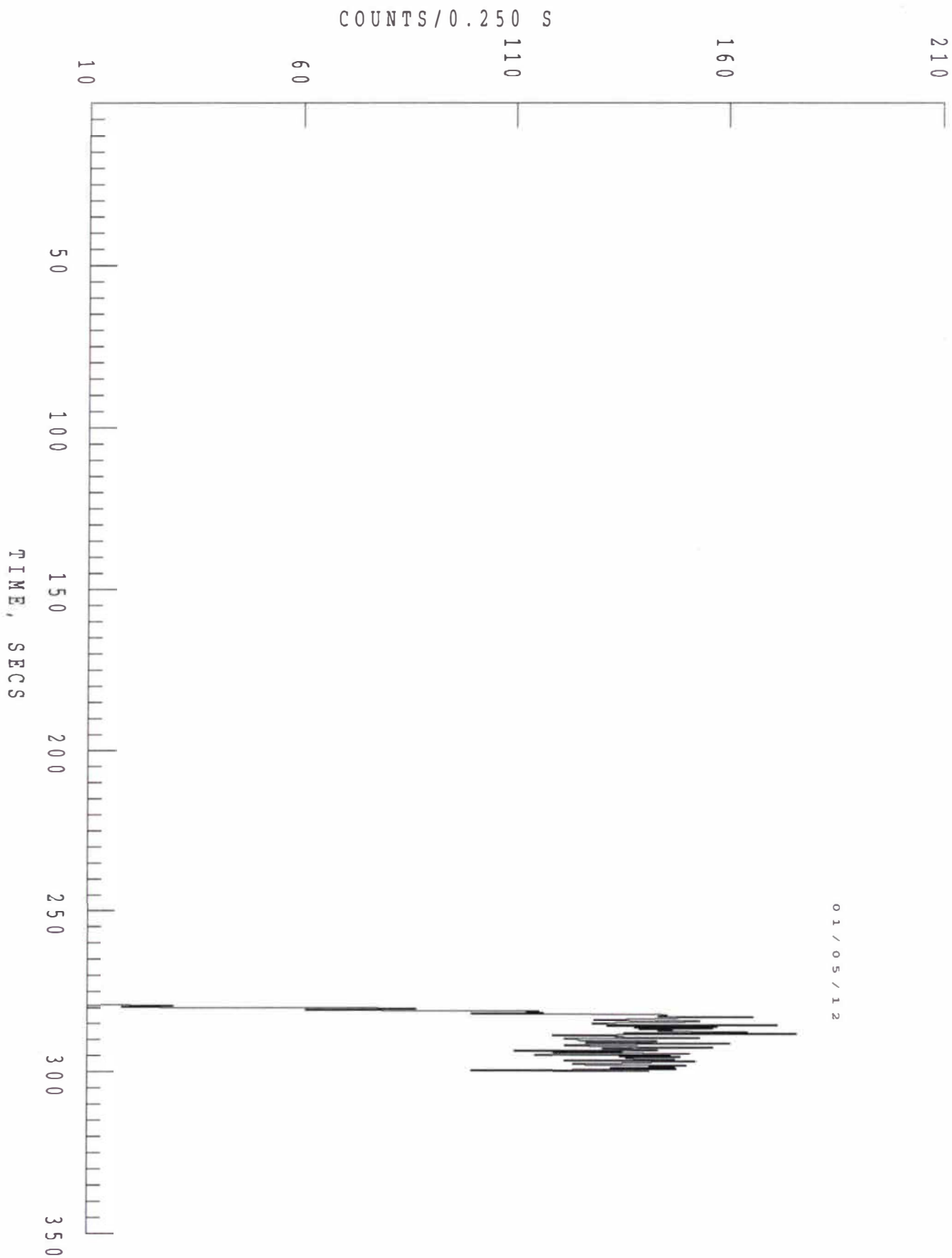
29/04/12

97.000

(GLAST_20120429_00247)

A ~~24~~

25- 150 keV



INTEGRAL

29/04/12

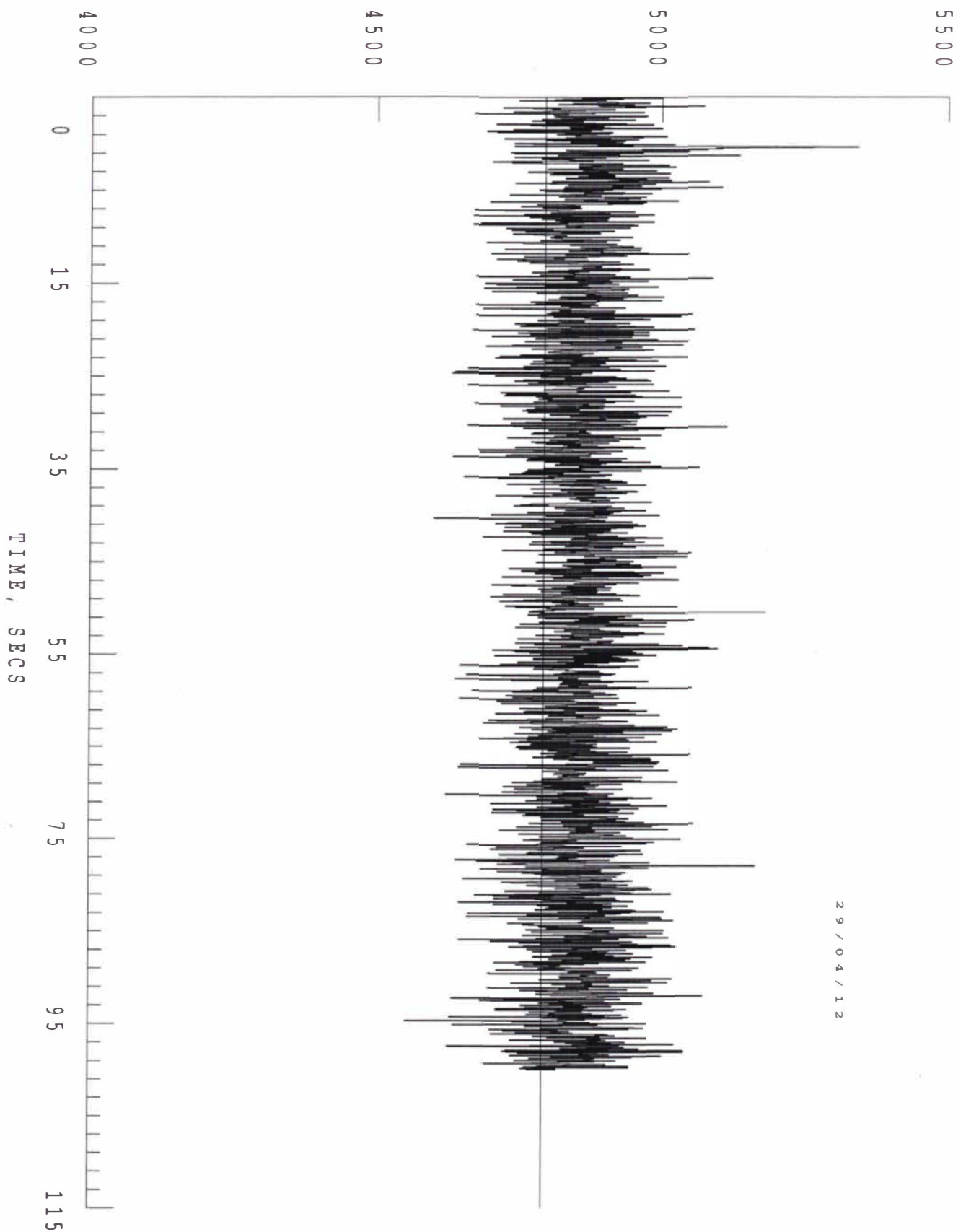
41882.955

11:38:02

AB

100-10000 keV

COUNTS/0.050 S



MS01

29/04/12

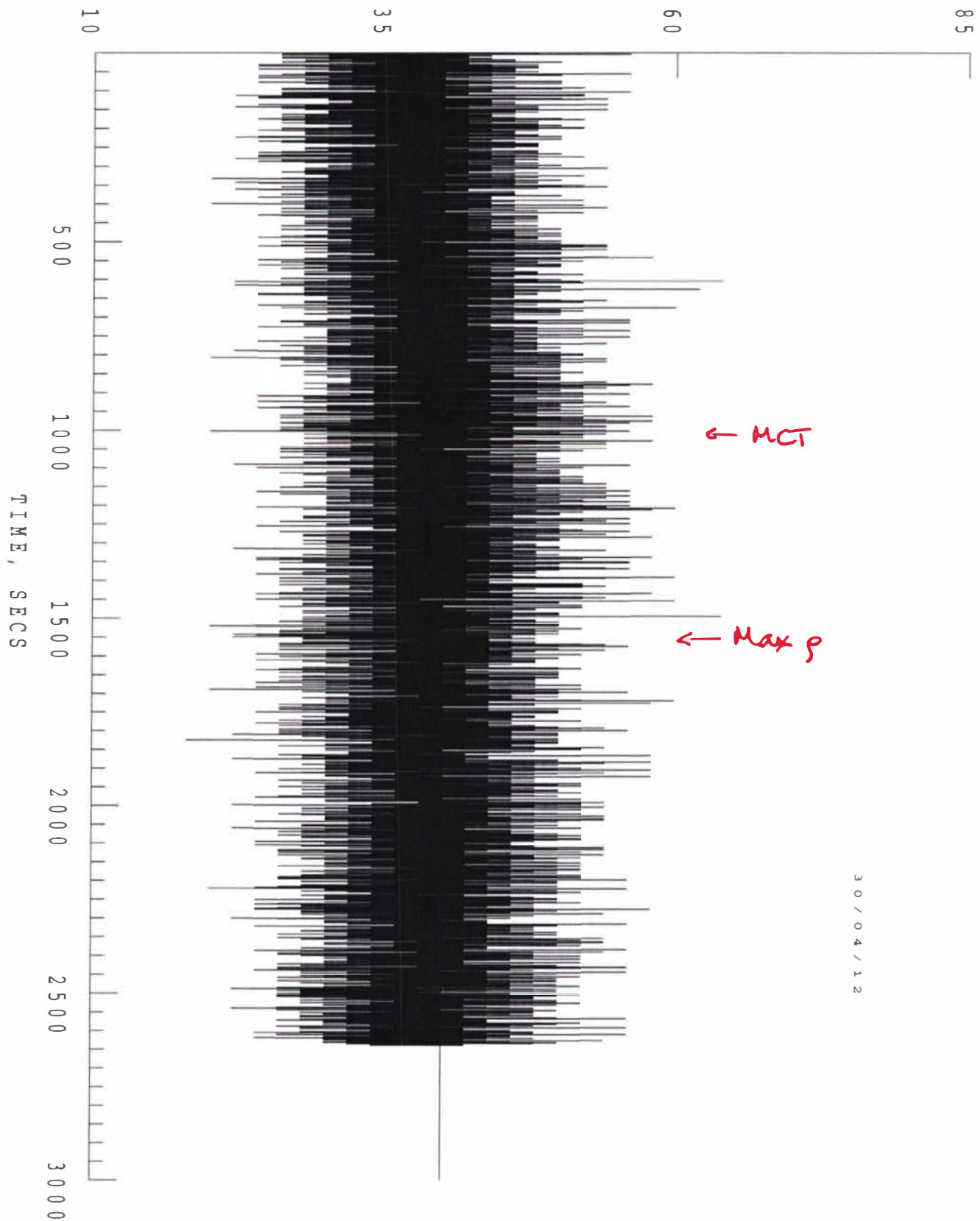
40545.100

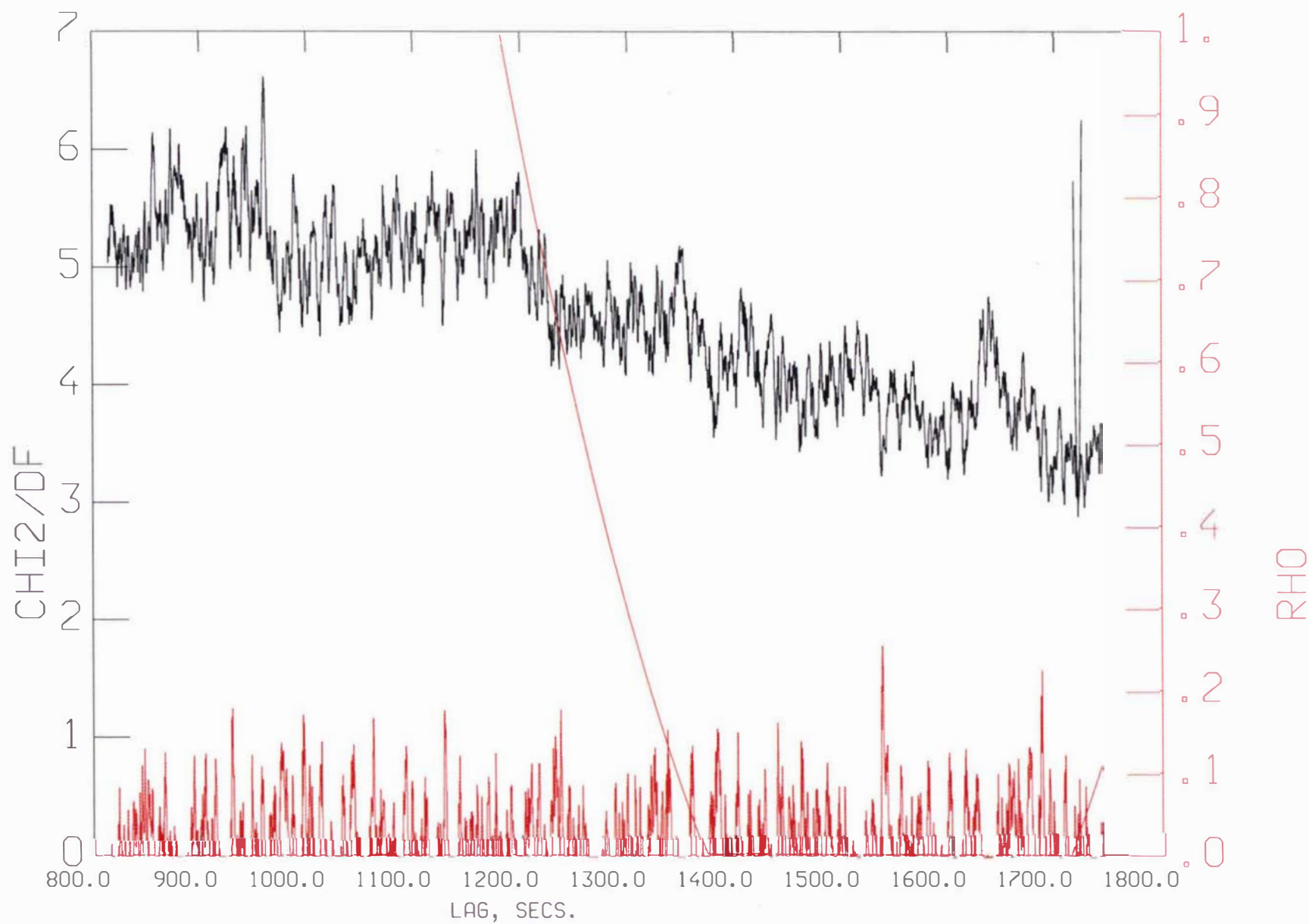
B

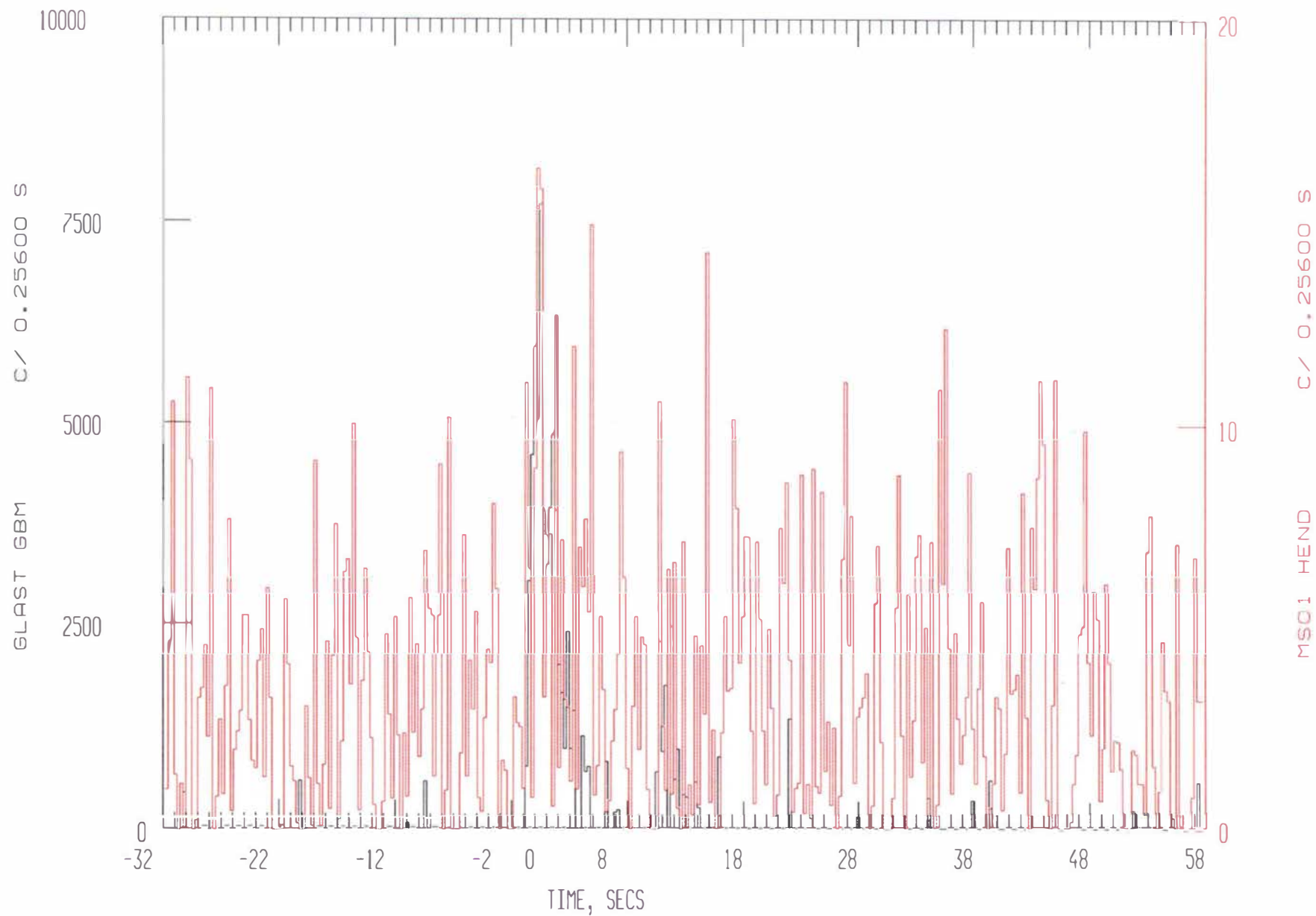
50 - 3000 keV

Unocculted

COUNTS/0.250 S







43

From williams@gammaburst.ssl.berkeley.edu Mon Apr 30 03:05:41 2012
X-Barracuda-Envelope-From: williams@gammaburst.ssl.berkeley.edu
X-Barracuda-RBL-Trusted-Forwarder: 169.229.218.144
X-Barracuda-User-Whitelist: khurley@mx.ssl.berkeley.edu
X-Barracuda-Apparent-Source-IP: 128.32.13.253
X-Barracuda-RBL-IP: 128.32.13.253
Date: Mon, 30 Apr 2012 02:57:02 -0700 (PDT)
From: Roger Williams <williams@gammaburst.ssl.berkeley.edu>
To: khurley@ssl.berkeley.edu
Subject: No RHESSI data for INTEGRAL 20120429_41882
X-Ucb-Scan-Signature: 021abb3ea69b5d240b33daf22b18e8581f5d6f2a
X-Ucb-Spam: Gauge=IIIIIII, Probability=7%, Report='ALL_TRUSTED -1,
T_RP_MATCHES_RCVD -0.01'
X-Ucb-Notice: This message has been processed by a spam tagging system.

HESSI 25 to 150 keV Counts
Created 30-Apr-2012 03:05:19.00
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

AB

Subject: [lbn] BAT lightcurve for trigger at 120429_1137

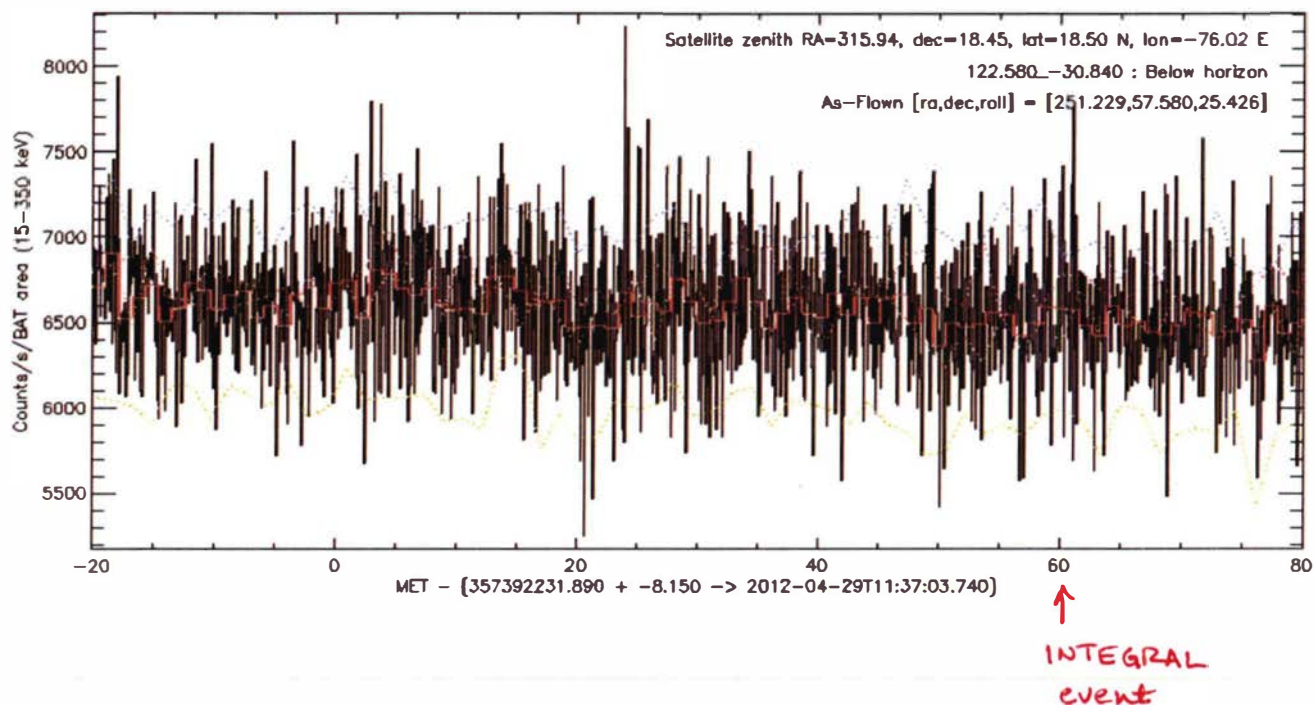
From: palmer+automatic_lightcurve@lanl.gov

Date: 4/30/2012 8:20 AM

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/120429_1137.png



```
% /usr/local/bin/swinfo -o 357392231.890 -s 122.580_-30.840
Time(MET + UTCF -> UT):      357392231.890 + -8.150 -> 2012-04-29T11:37:03.740
Swift Zenith(RA,dec):        315.94, 18.45
Swift Location(lon,lat,alt):  -76.02 E, 18.50 N, 569 km
Obs Sequence Number:         00032200142
Obs Target Name:              Swift J164449.3+573451
Obs Date and Times:           2012-04-29 11:25:53 - 11:43:49
Obs Pointing(ra,dec,roll):    251.229, 57.580, 25.43
122.580_-30.840_imageloc (boresight_dist, angle): (136, 169)
122.580_-30.840_exposure (cm^2 cos adjusted): 0
122.580_-30.840_altitude: -49 (down)
```

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

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

Attachments:

/tmp/120429_1137.png

21.7 KB

/tmp/120429_1137_bat64ms_ipn

87.1 KB

GLAST

29/04/12

41823.736

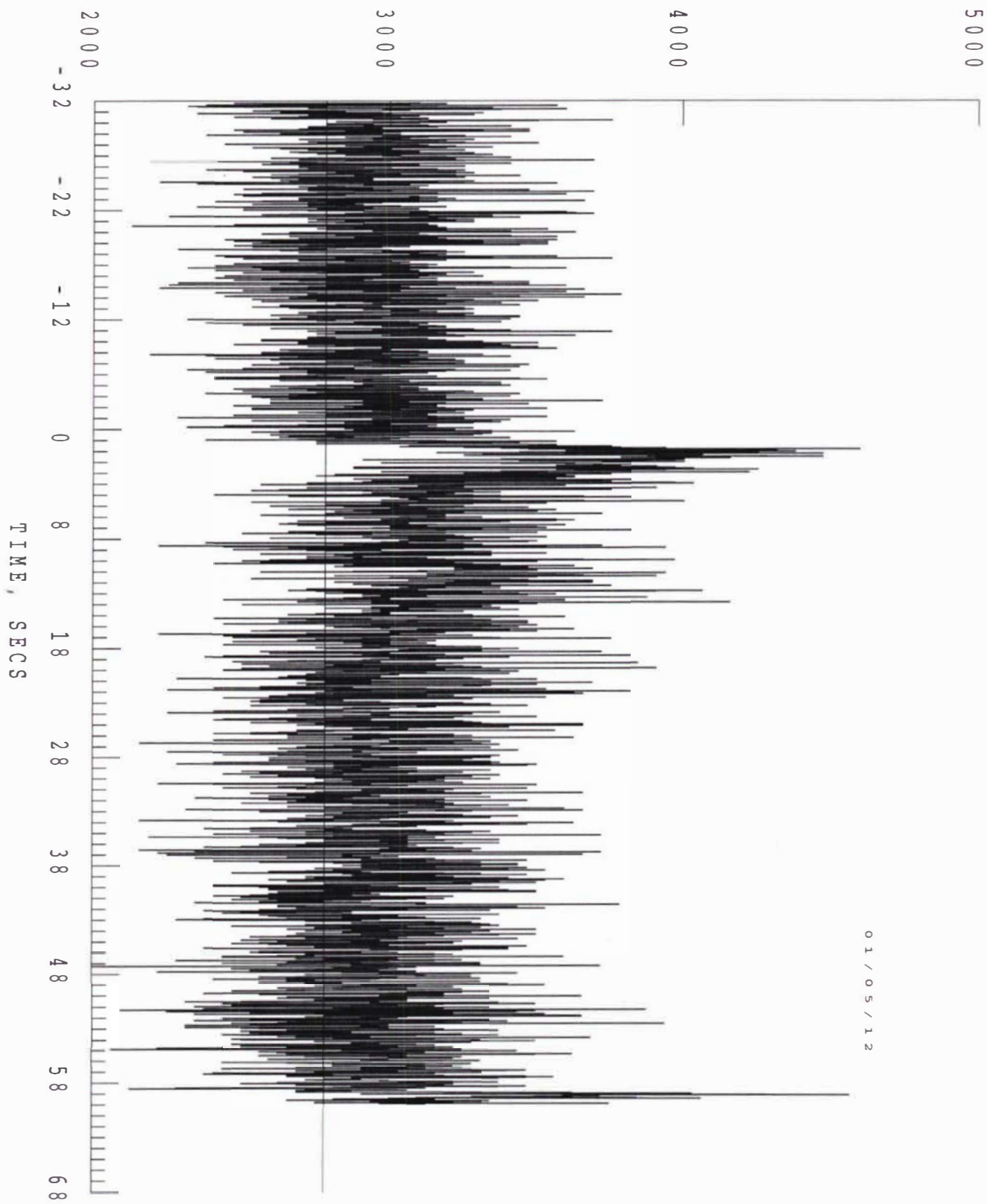
11:37:03

13

26 - 293 keV

133.04, -31.77, 5.34

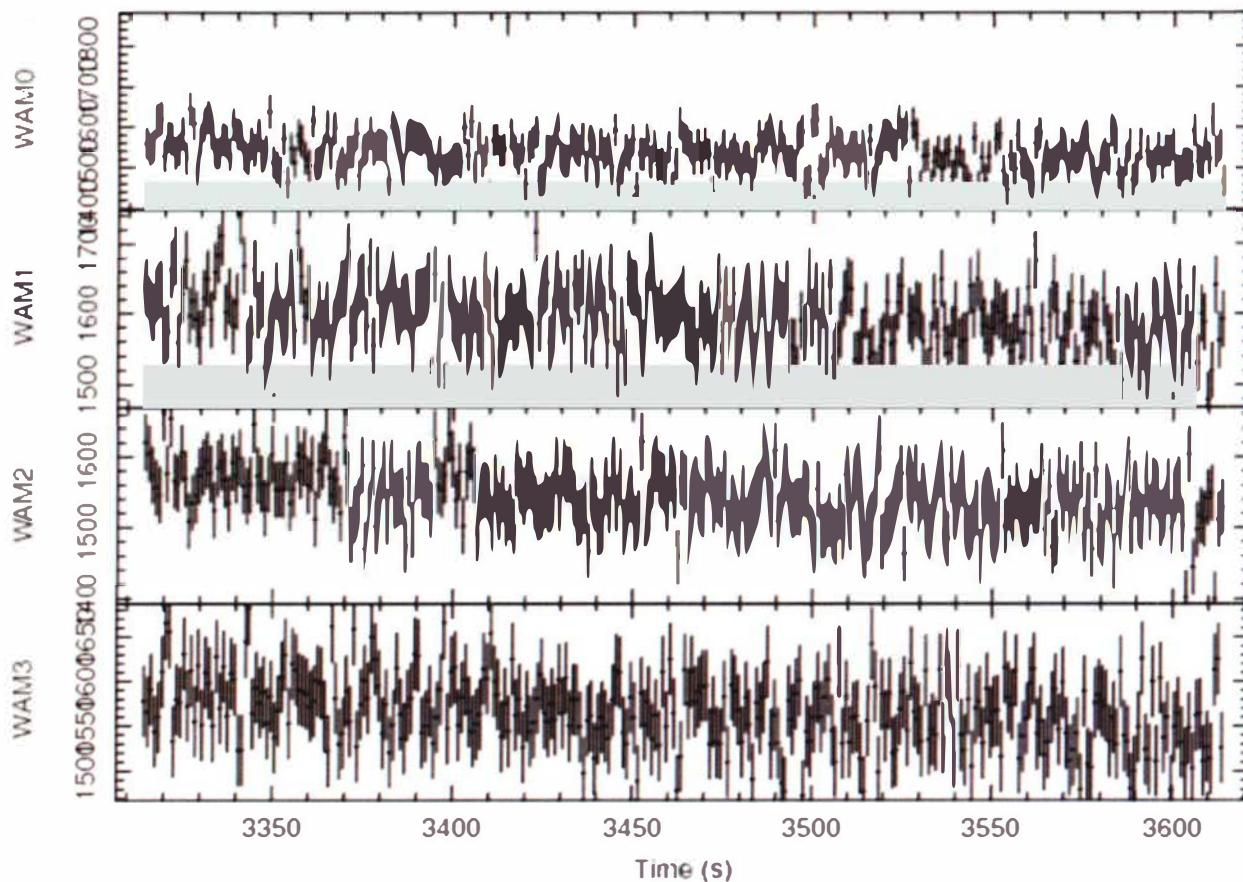
COUNTS/0.032 S



TRN AUTOMATIC SEARCH 20120429 195547

Candidate GRB 1s.
19:55:48 71748

Bin time: 1.000 s



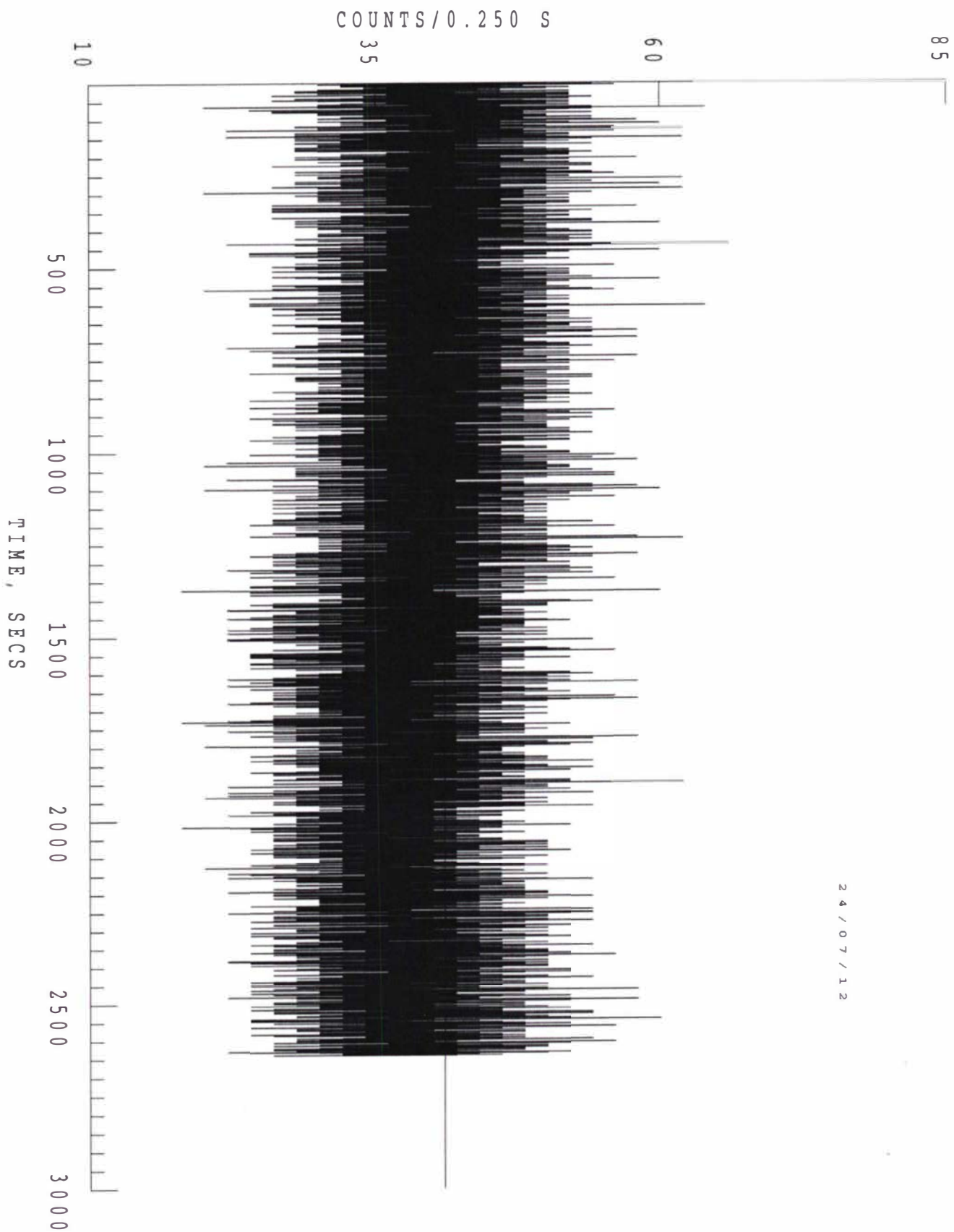
Start Time 16046 19:55:14.654 Stop Time 16046 20:00:13.654

MS01

29/04/12

70424.812

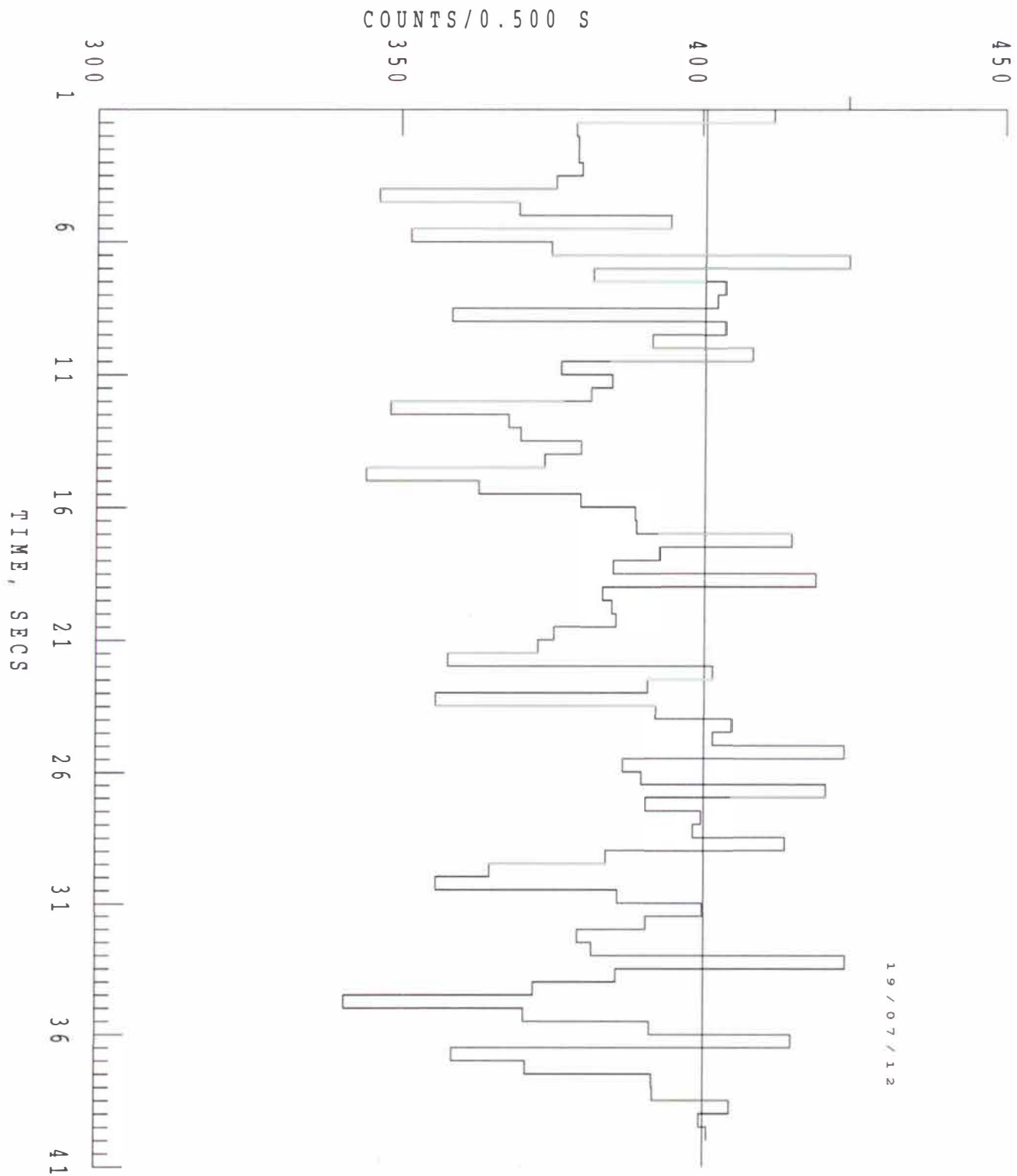
50 - 3000 keV

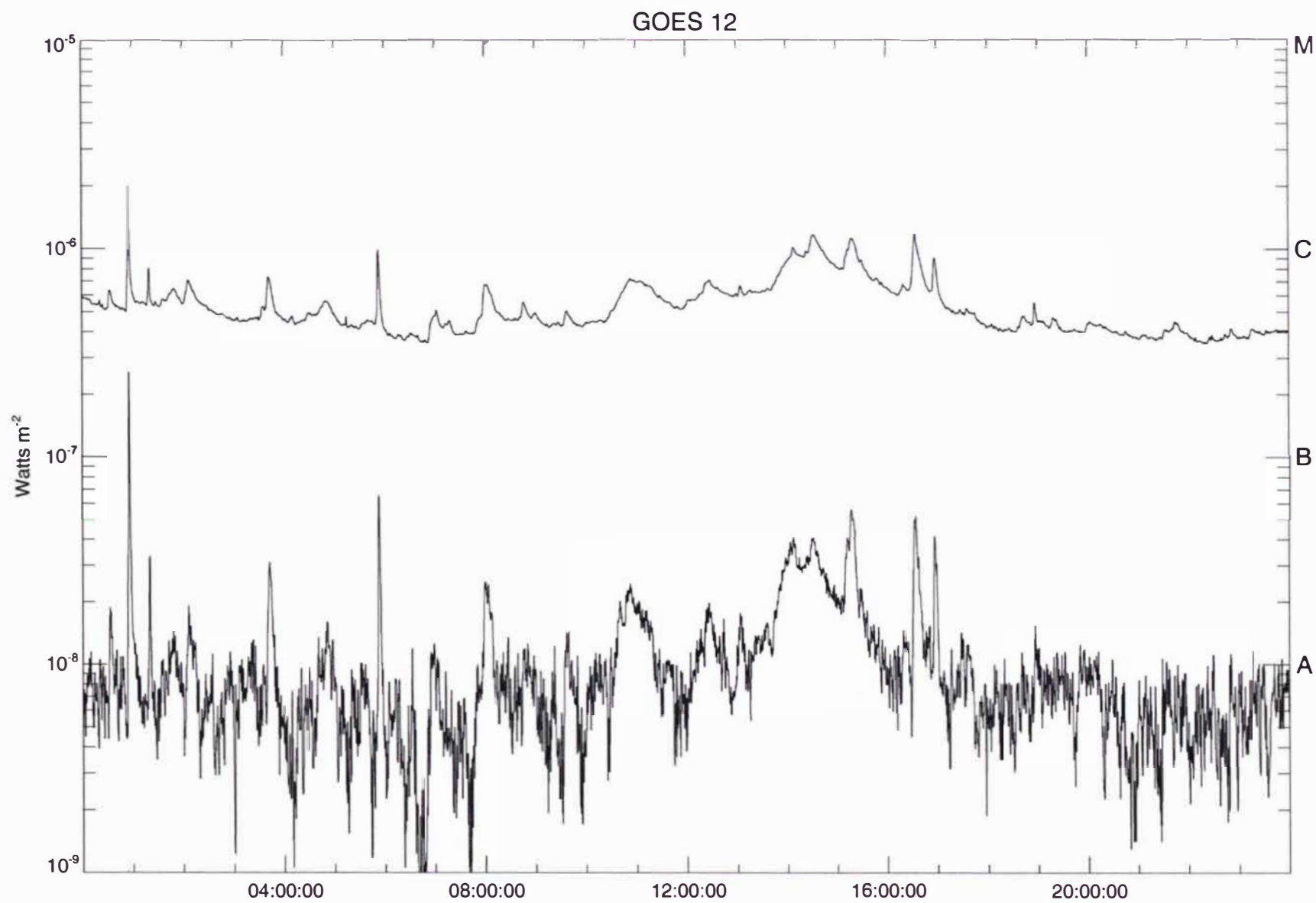


HESSI

29/04/12 71728.000 (SUZAKU_RI_20120429_71748)

25- 150 keV





Data Start: 12/04/29, 0000:10

Plot created: 12/05/02, 0840

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10

GLAST

30/04/12

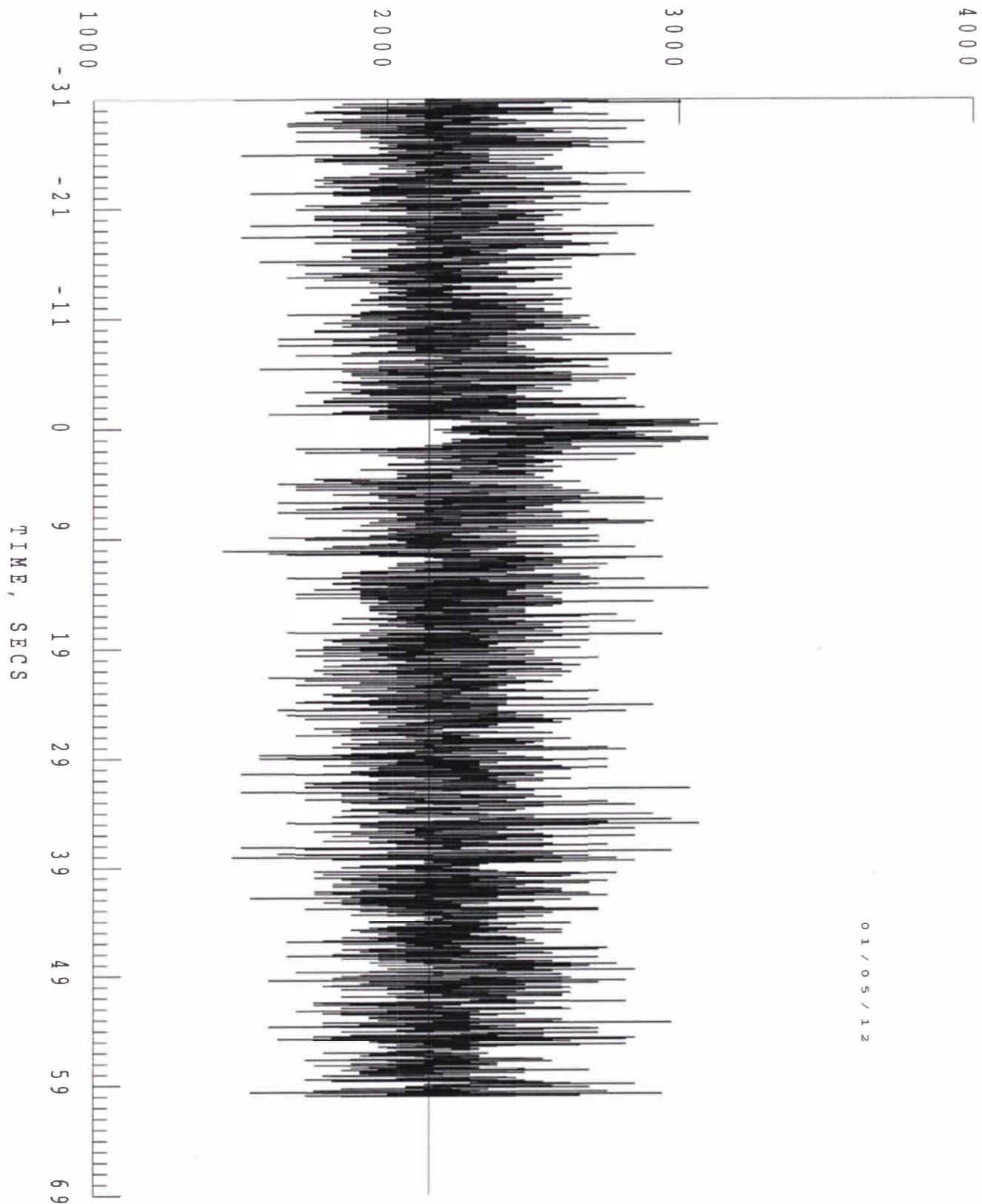
84643.349

23:30:43

26 - 293 keV

47.25, 18.52, 5.75

COUNTS/0.032 S



MS01

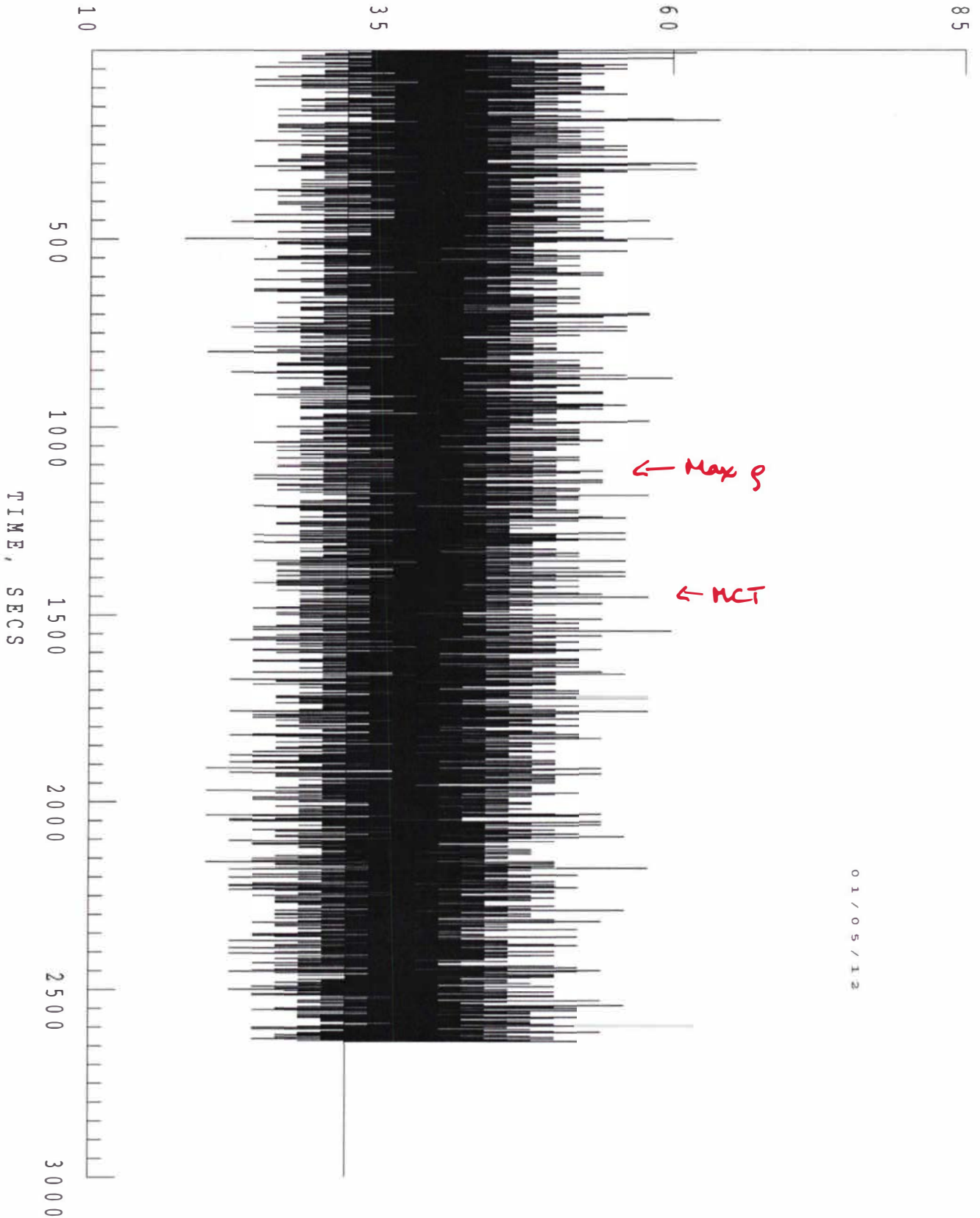
30/04/12

83323.020

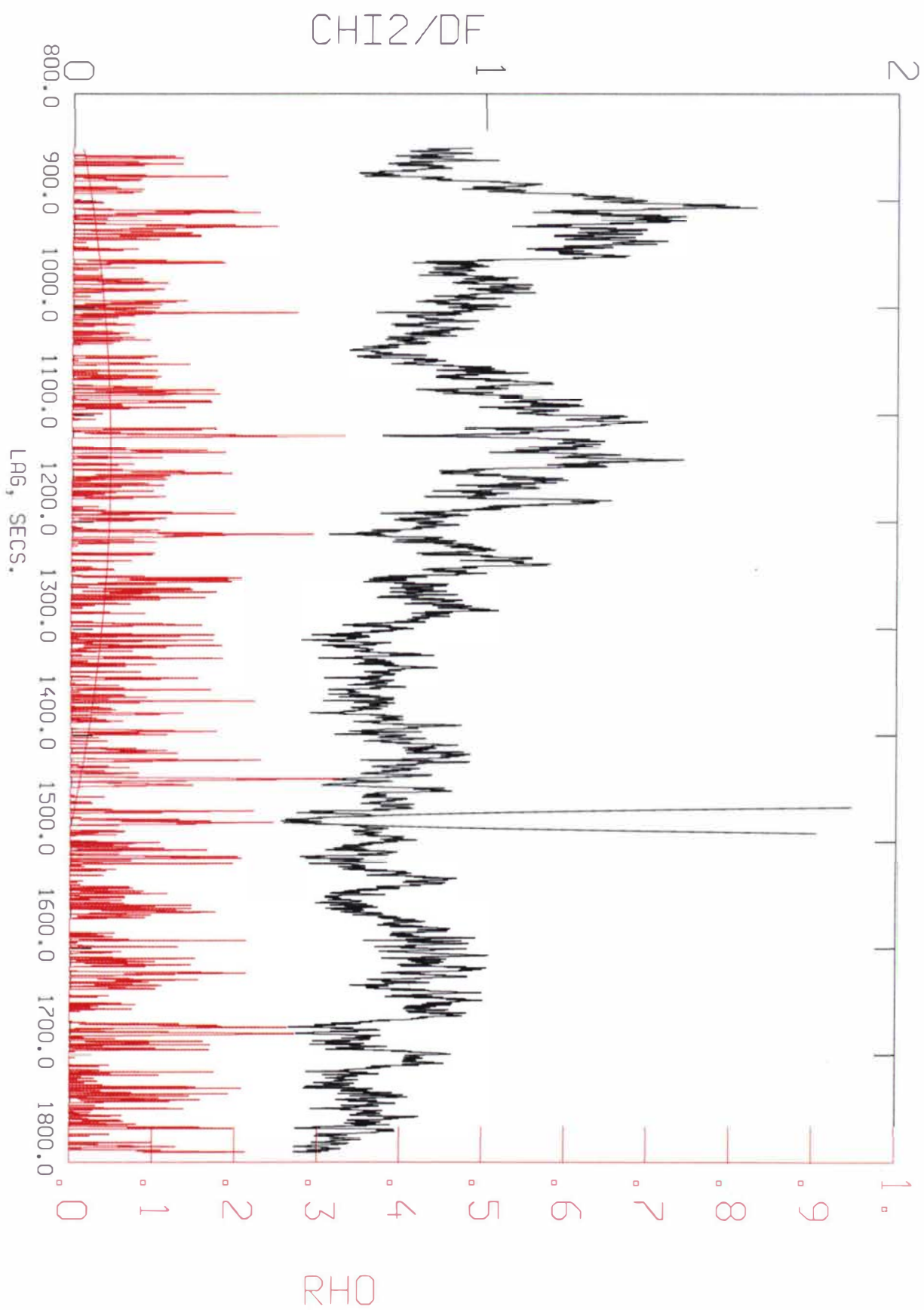
50 - 3000 keV

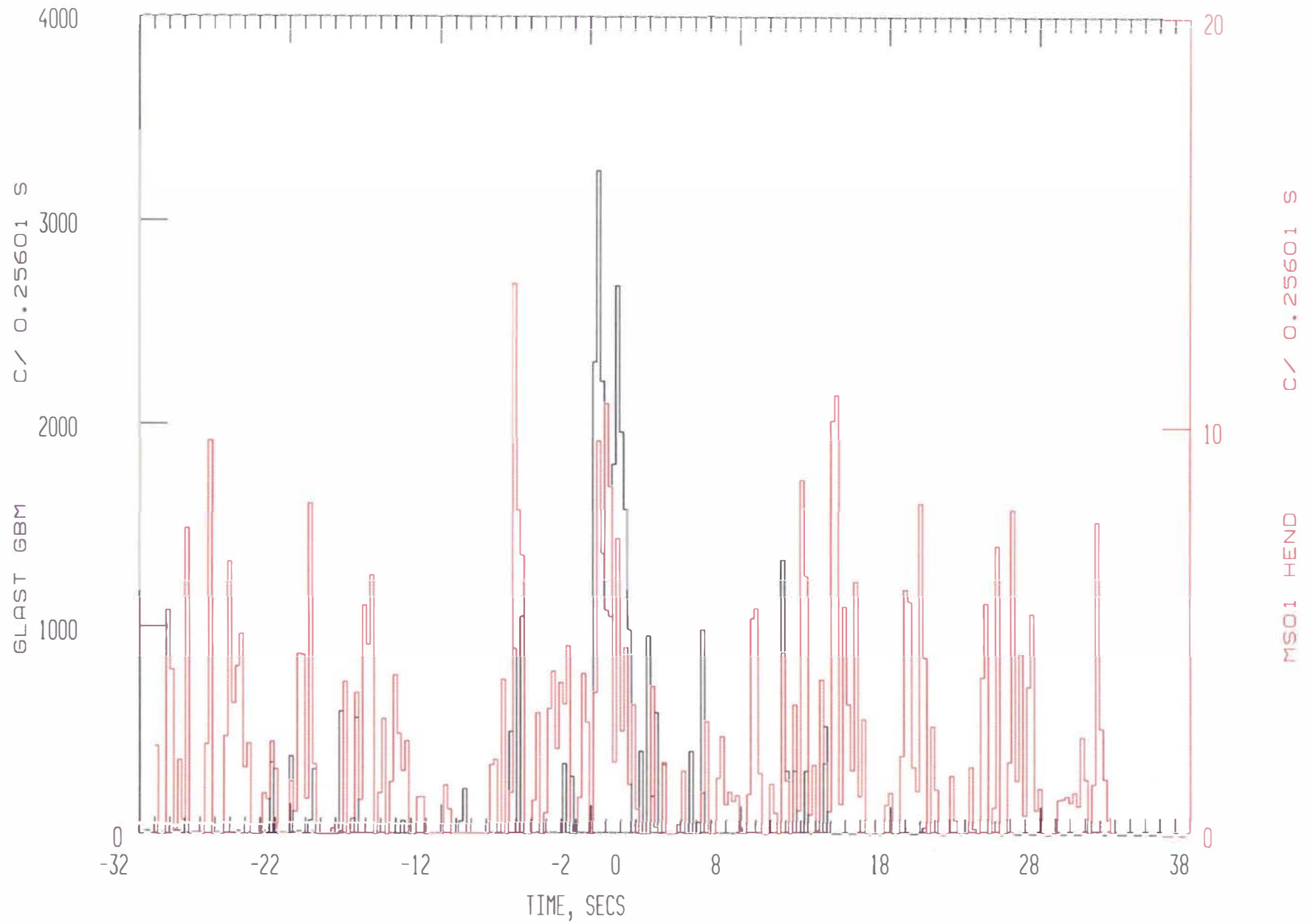
Unocculted

COUNTS/0.250 S



01/05/12

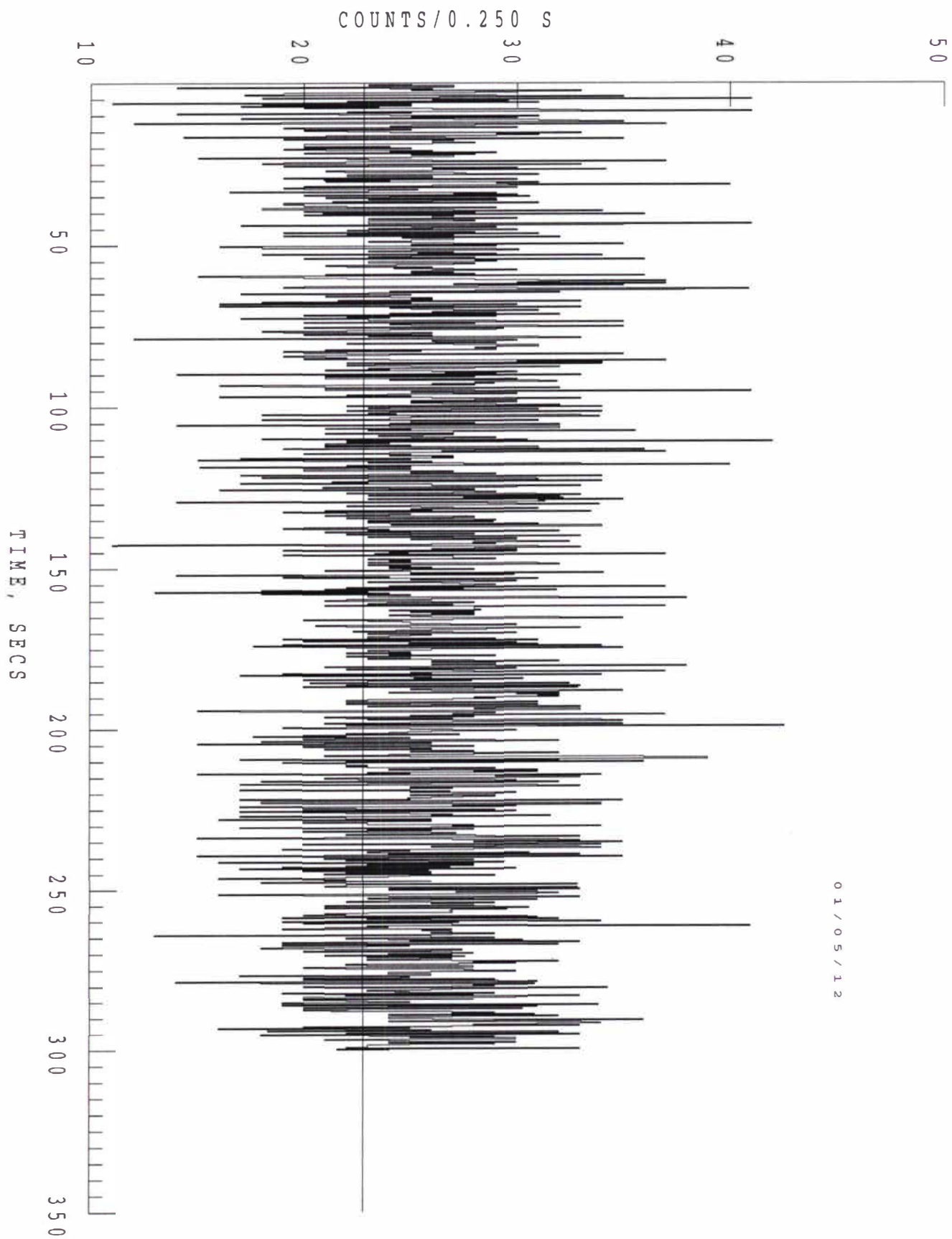




HESSI

30/04/12 84493.000 (GLAST_20120430_84643)

25- 150 keV

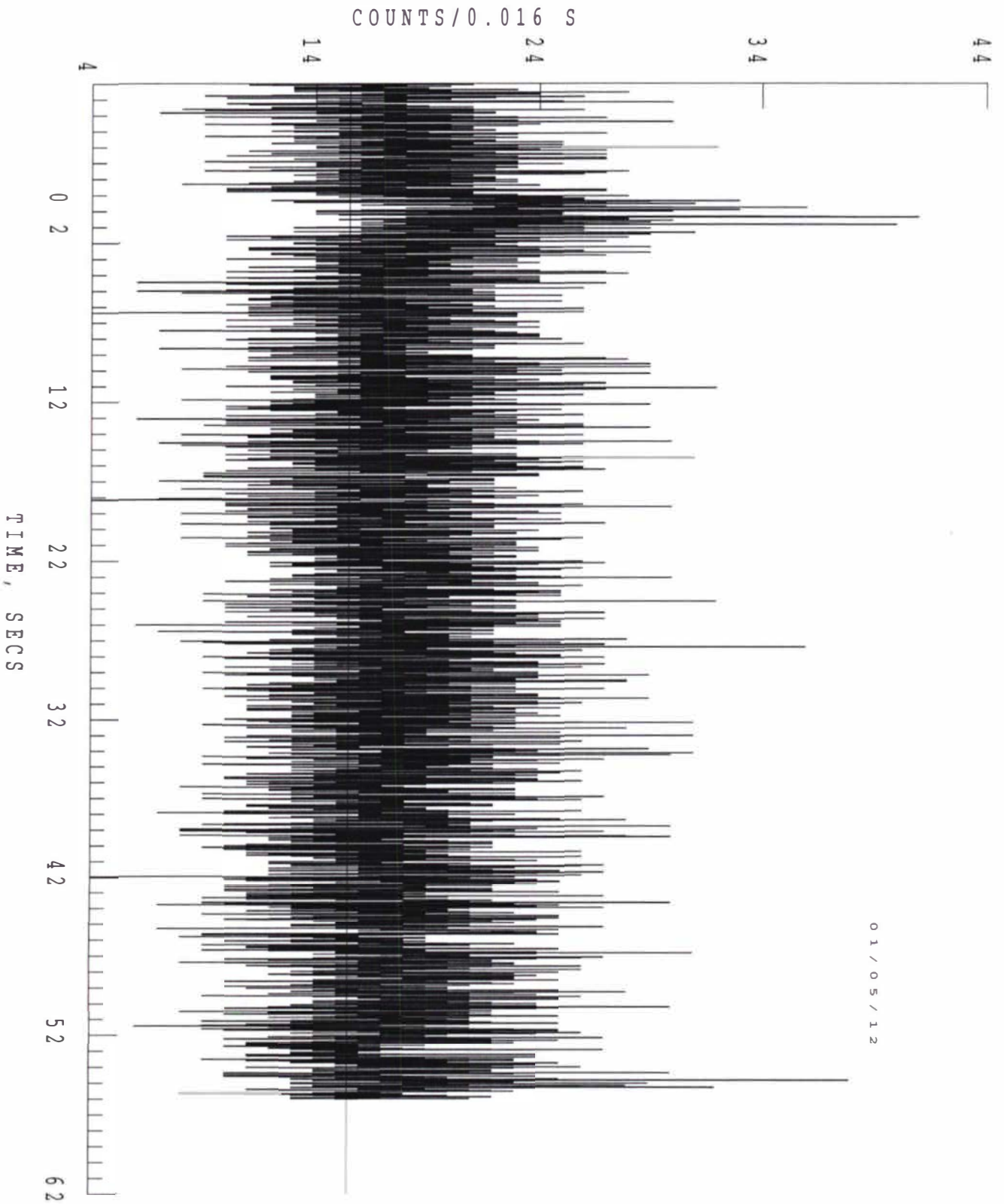


SUZAKU

30/04/12

84642.454

50 - 240 keV



Subject: Suzaku/WAM TRN AUTOMATIC SEARCH: ae20120430_1734_1554_hxd_wam.uff

From: aetouban@astro.isas.jaxa.jp (Astro-E2 USC Duty Scientist)

Date: 5/1/2012 9:12 AM

To: hxd-grb@astro.isas.jaxa.jp, khurley@ssl.berkeley.edu, val@mail.ioffe.ru

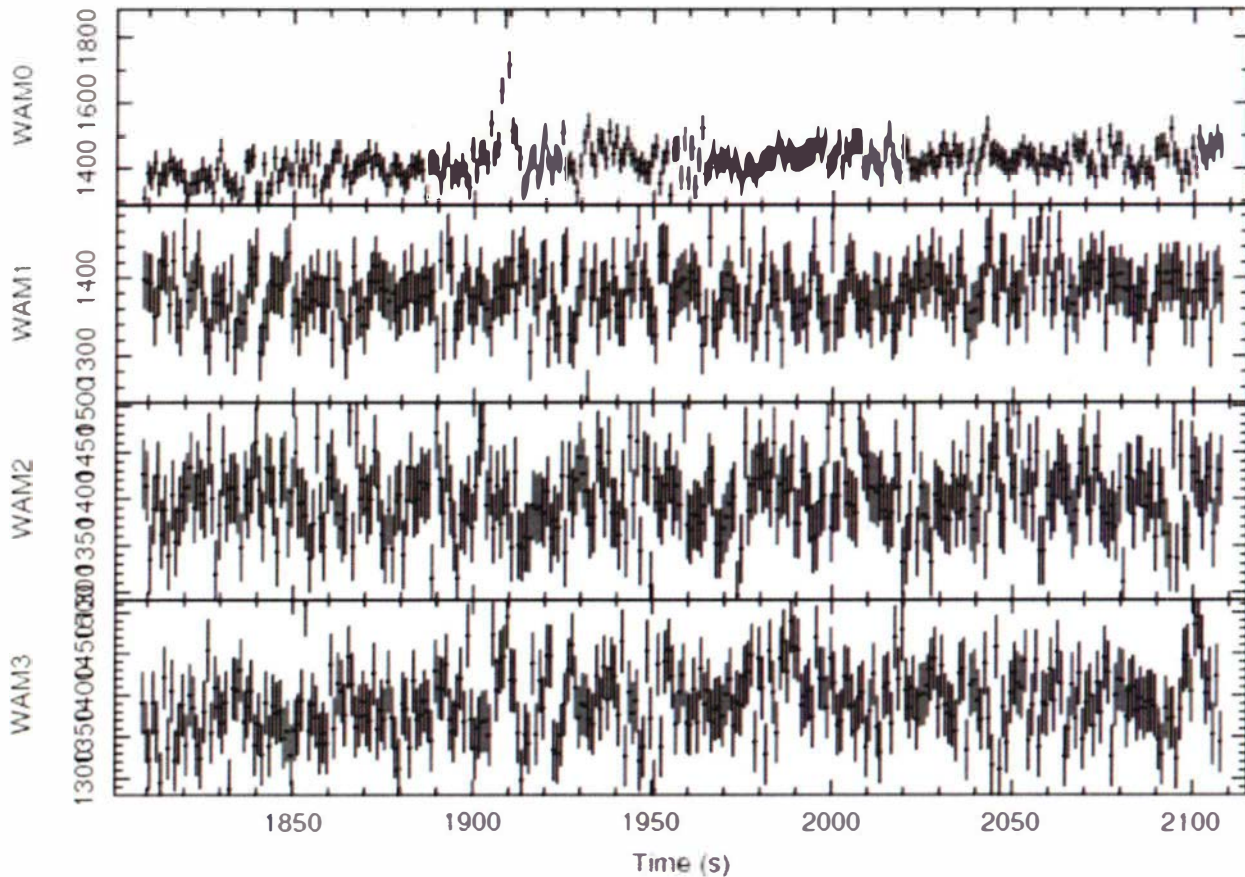
2012-04-30 23:30:41 3.8914384395689660e+08 10.3

2012-05-01 06:11:44 3.8916790695229590e+08 5.0

2012-05-01 06:12:33 3.8916795595228654e+08 6.7

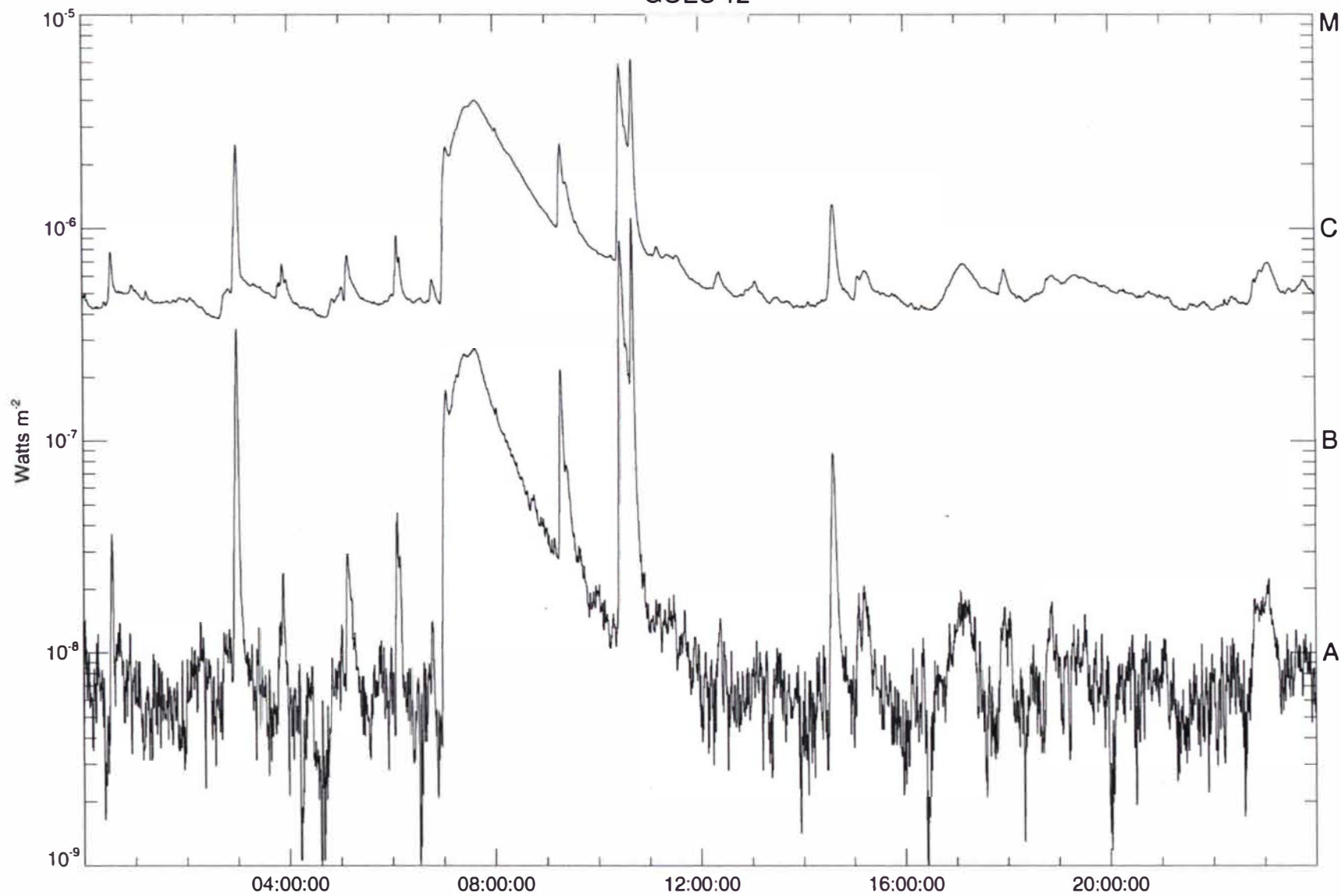
TRN AUTOMATIC SEARCH 2012-04-30 23:30:41

Bin time: 1.000 s



Start Time 16047 23:30:08.641 Stop Time 16047 23:35:07.641

GOES 12



Data Start: 12/04/30, 0000:10

Plot created: 12/05/03, 0841

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10