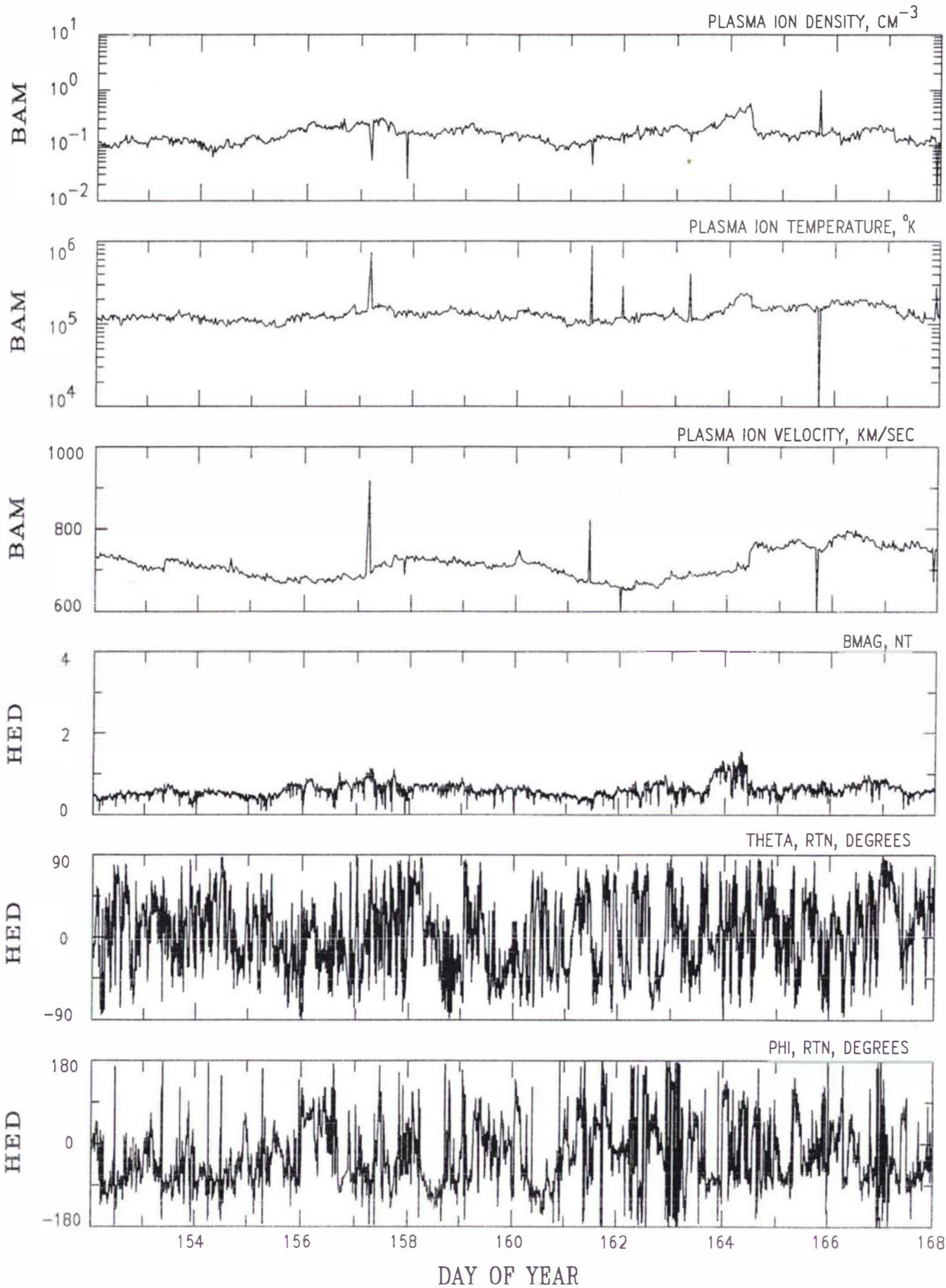
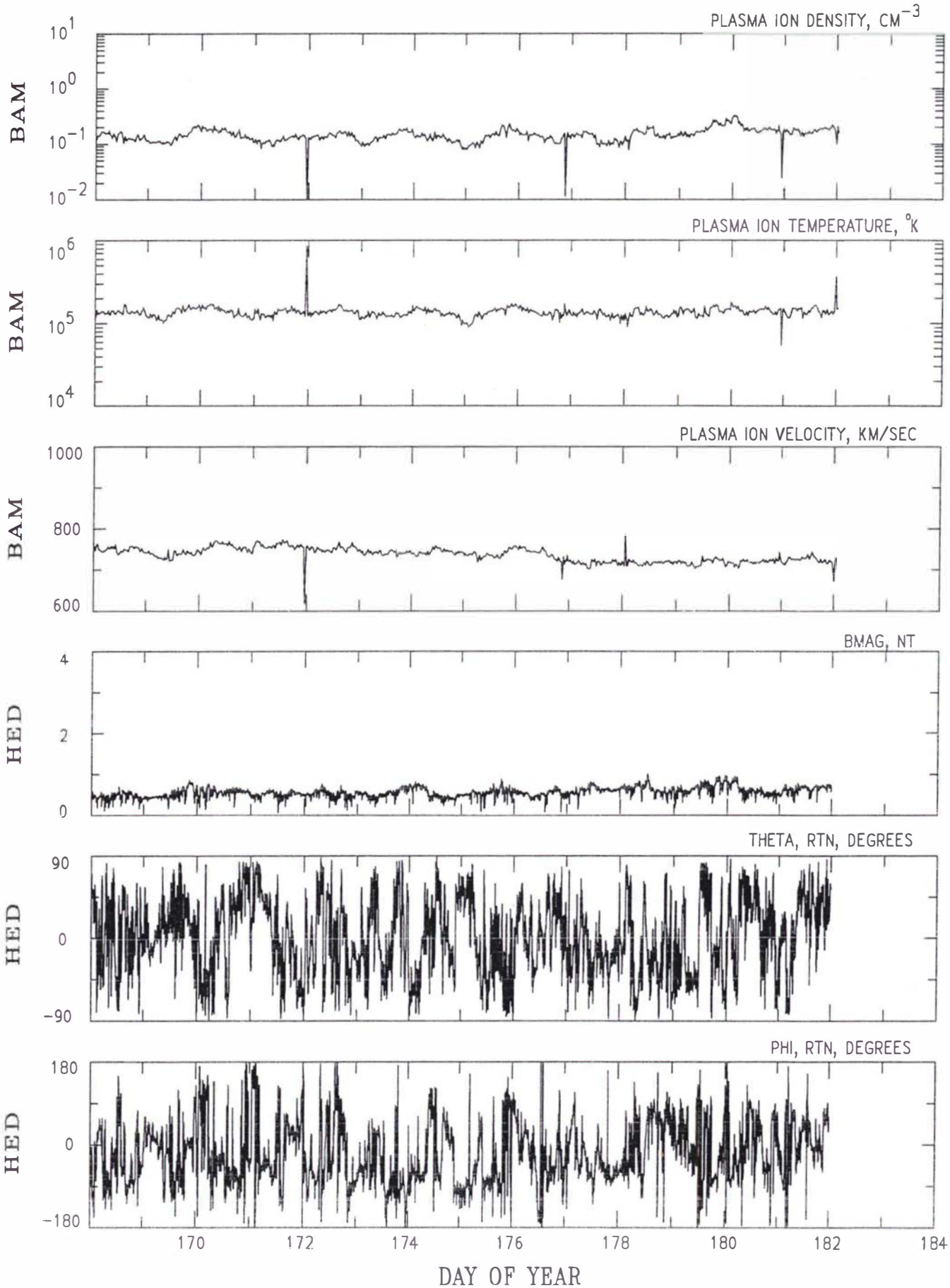
ULYSSES CDR – SOLAR WIND PLASMA AND MAGNETIC FIELD

06 152 JUN 1 00:00:00.000 – 06 168 JUN 17 00:00:00.000



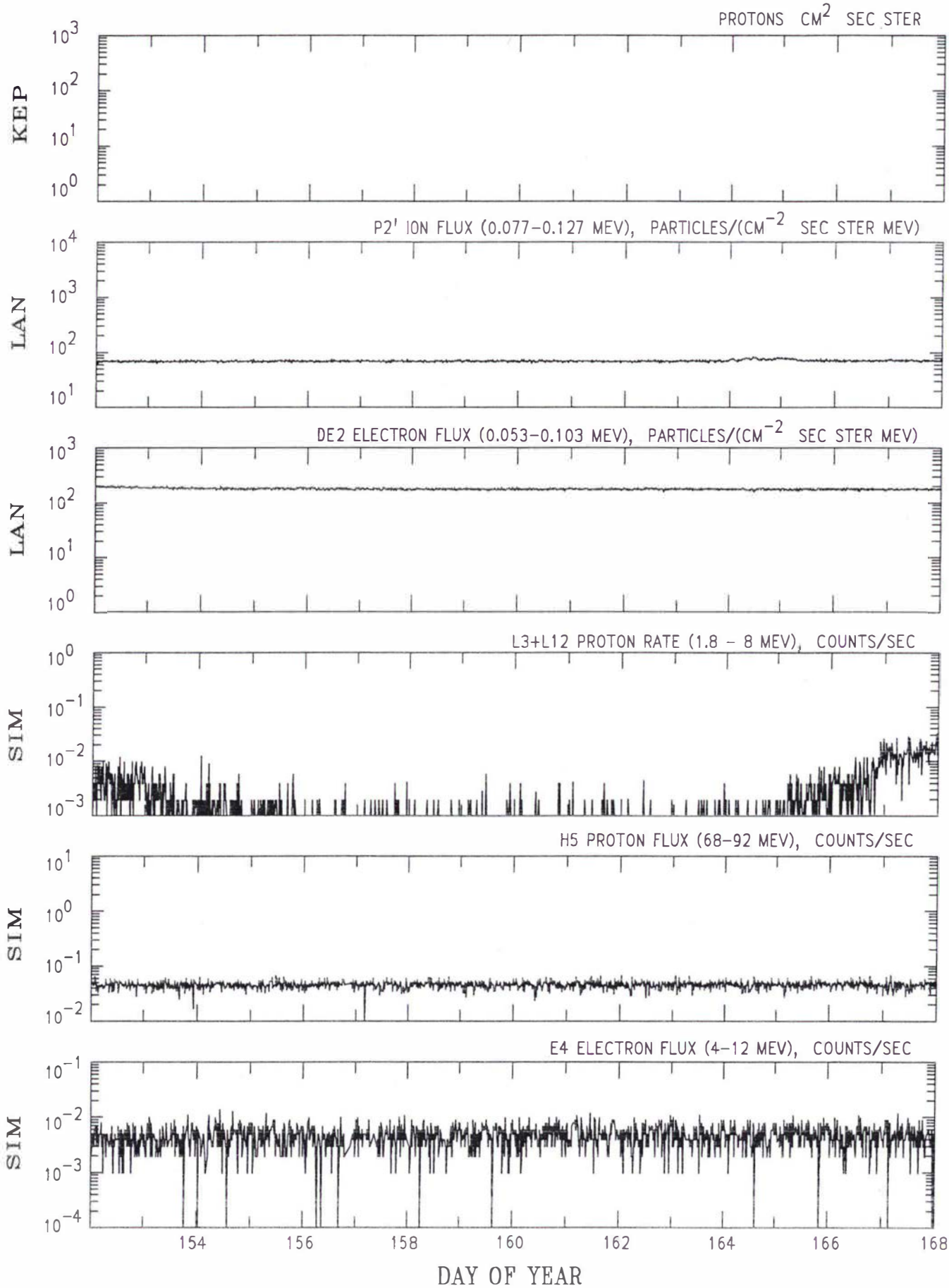
ULYSSES CDR – SOLAR WIND PLASMA AND MAGNETIC FIELD

06 168 JUN 17 00:00:00.000 – 06 184 JUL 3 00:00:00.000



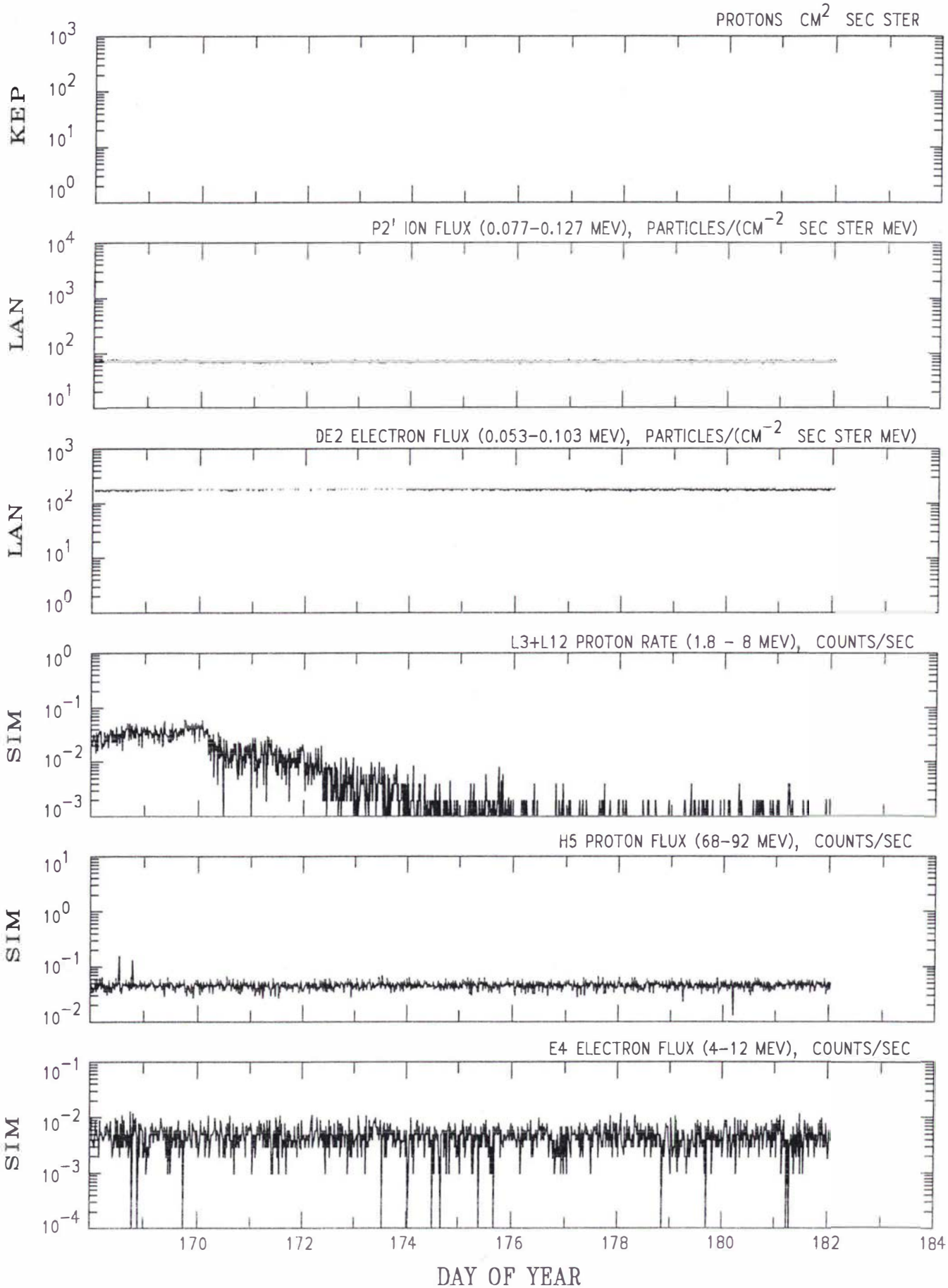
ULYSSES CDR - ENERGETIC PARTICLES, LOW ENERGY IONS AND COSMIC RAY

06 152 JUN 1 00:00:00.000 - 06 168 JUN 17 00:00:00.000



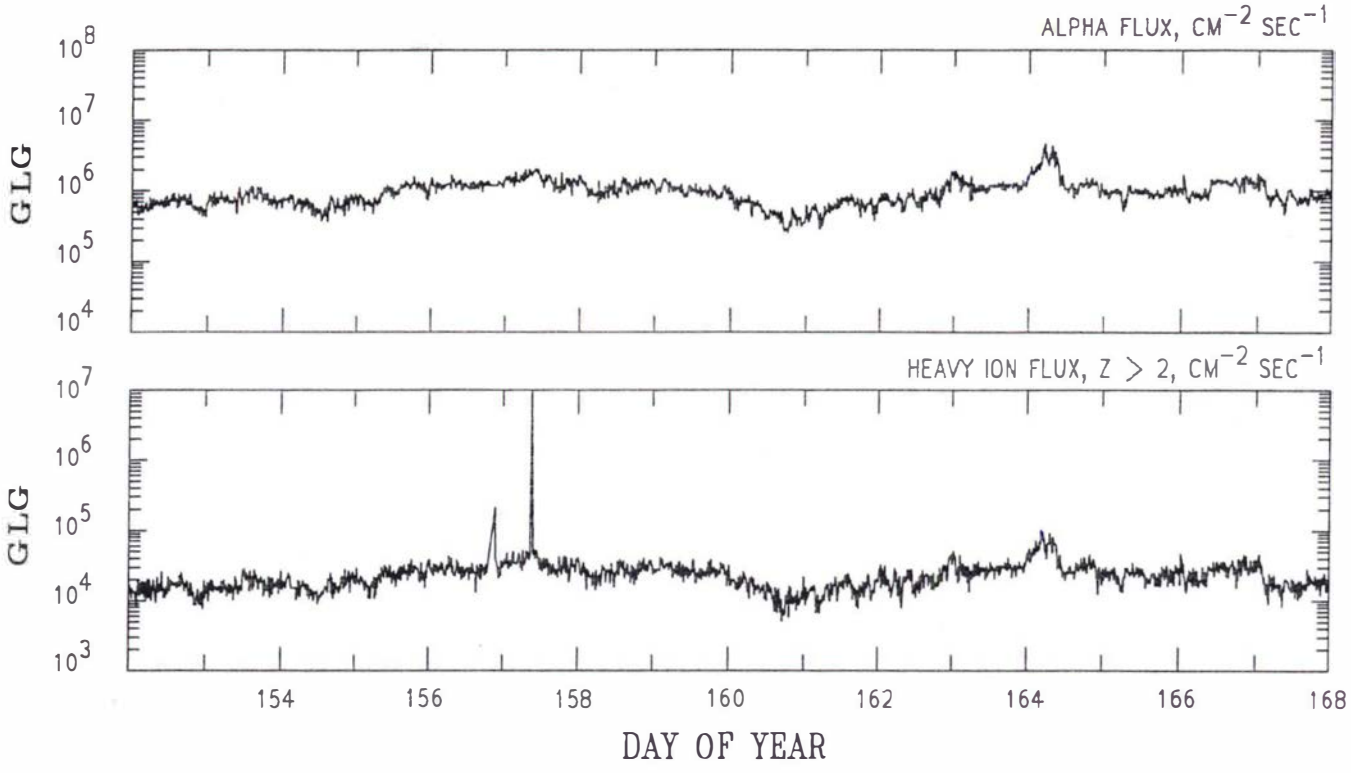
ULYSSES CDR – ENERGETIC PARTICLES, LOW ENERGY IONS AND COSMIC RAY

06 168 JUN 17 00:00:00.000 – 06 184 JUL 3 00:00:00.000



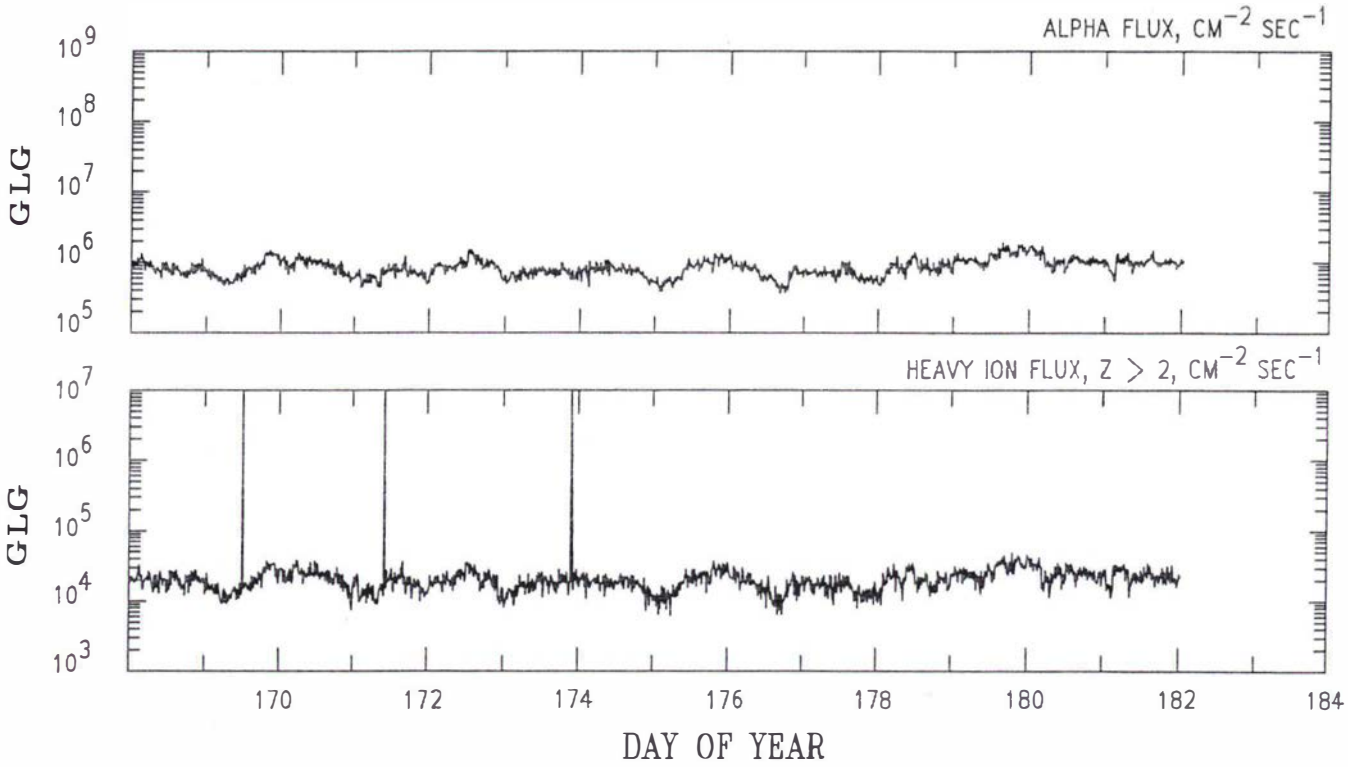
ULYSSES CDR – SOLAR WIND ION COMPOSITION

06 152 JUN 1 00:00:00.000 – 06 168 JUN 17 00:00:00.000



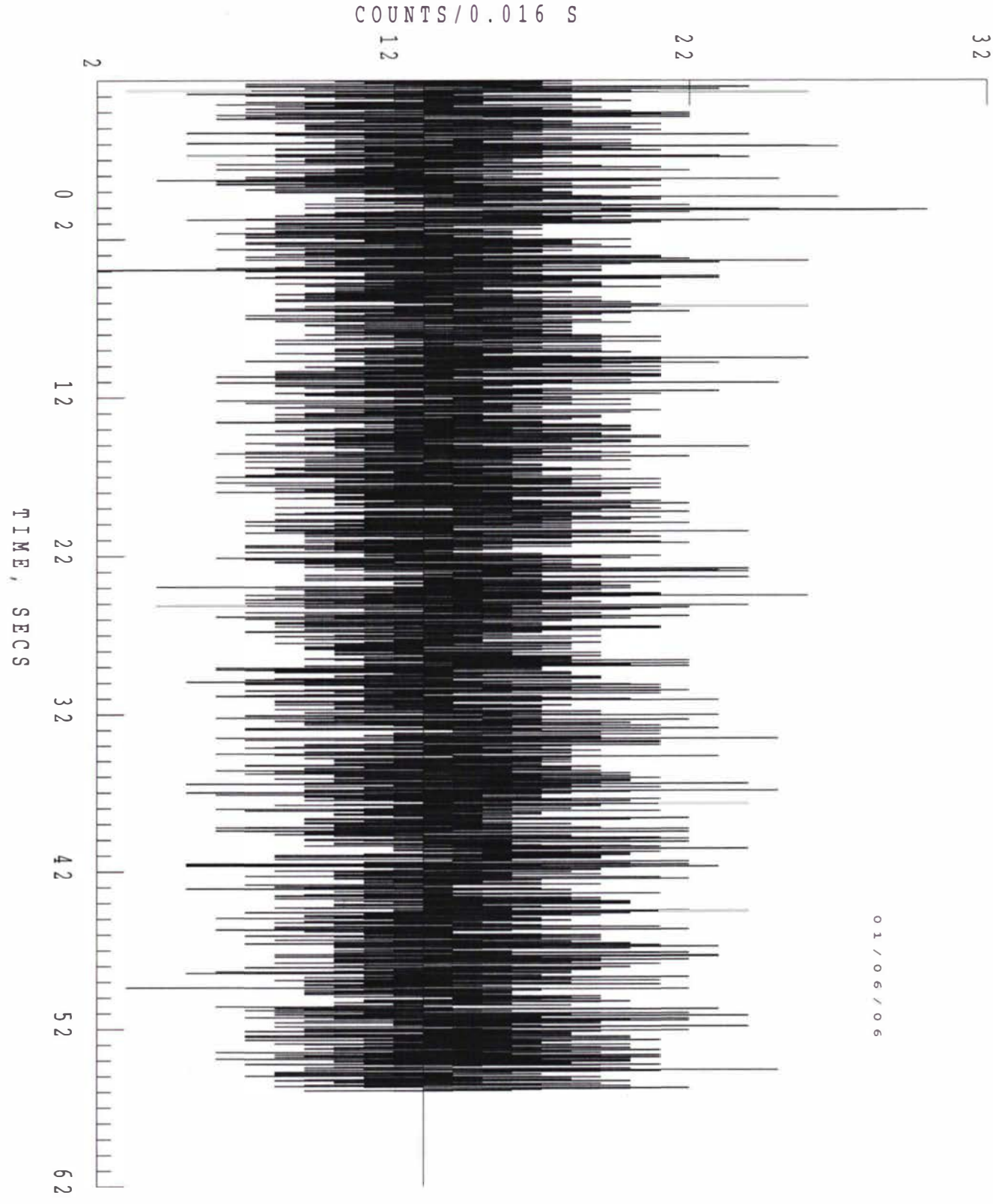
ULYSSES CDR – SOLAR WIND ION COMPOSITION

06 168 JUN 17 00:00:00.000 – 06 184 JUL 3 00:00:00.000

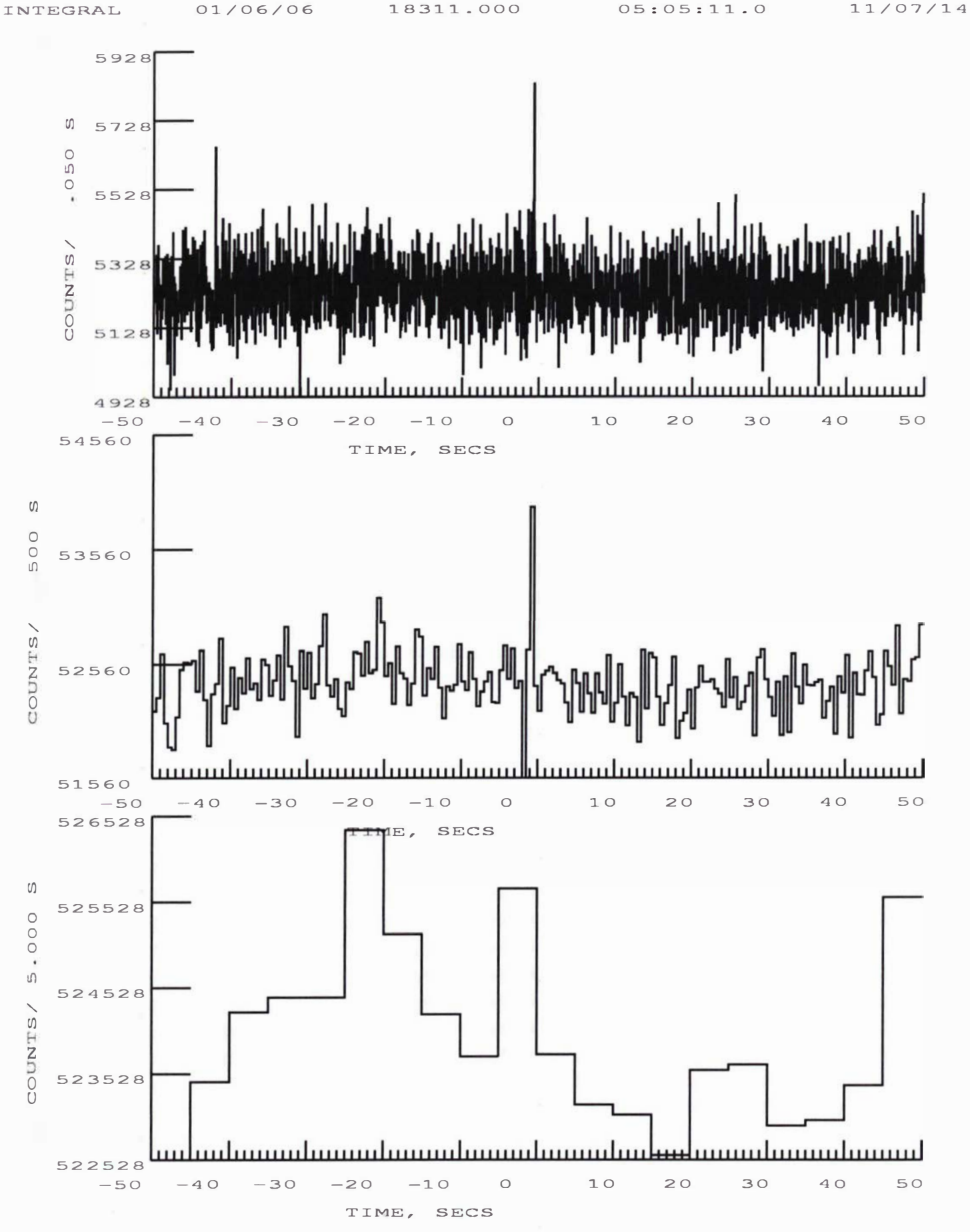


SUZAKU 01/06/06 18311.674 A

50- 240 keV 05:05:11



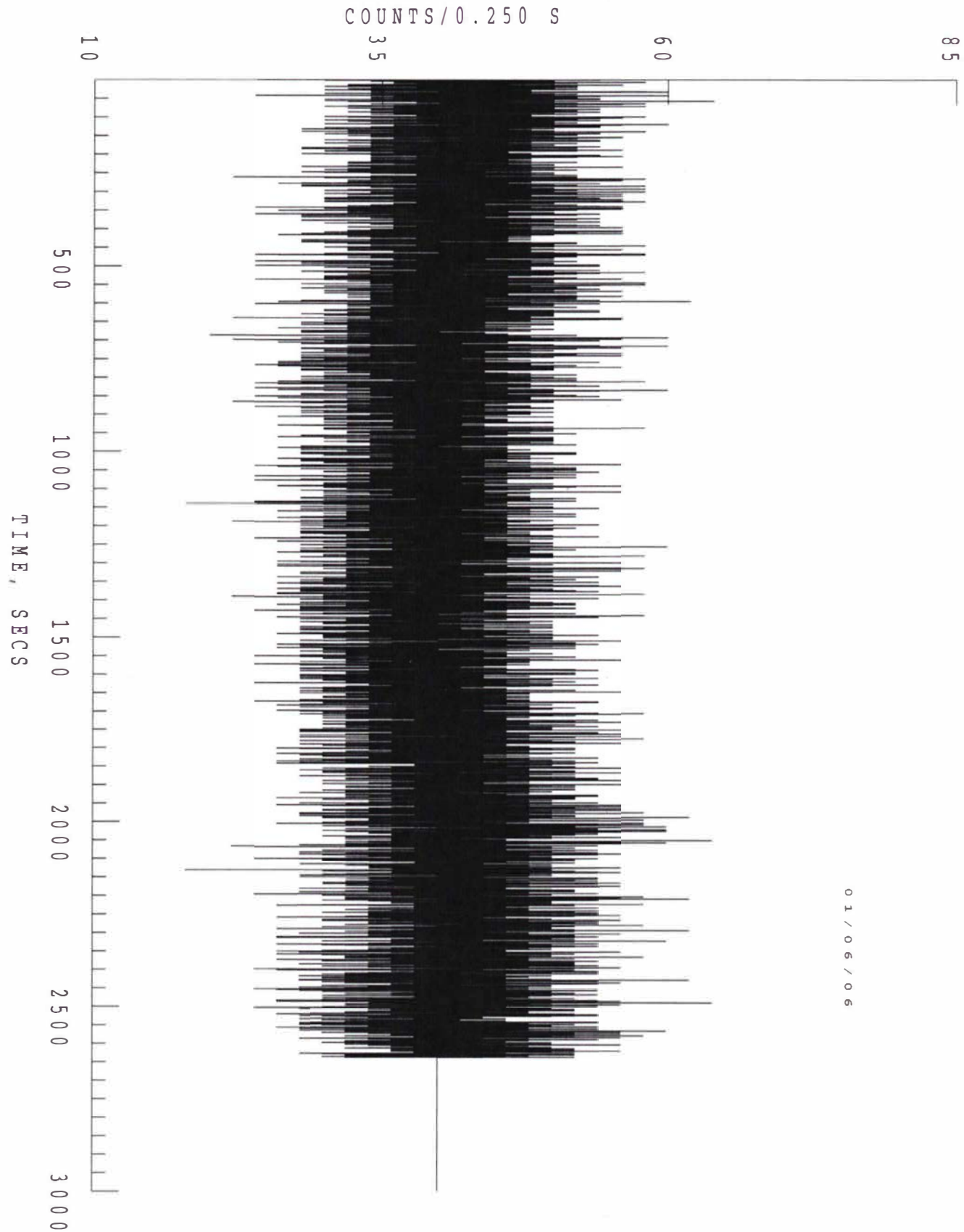
A


INTEGRAL 01/06/06 18311.000 05:05:11.0 11/07/14
COUNTS/ .050 S
5928
5728
5528
5328
5128
4928
−50 −40 −30 −20 −10 0 10 20 30 40 50
TIME, SECS
COUNTS/ .500 S
54560
53560
52560
51560
−50 −40 −30 −20 −10 0 10 20 30 40 50
TIME, SECS
COUNTS/ 5.000 S
526528
525528
524528
523528
522528
−50 −40 −30 −20 −10 0 10 20 30 40 50
TIME, SECS

MS01 01/06/06 16991.677

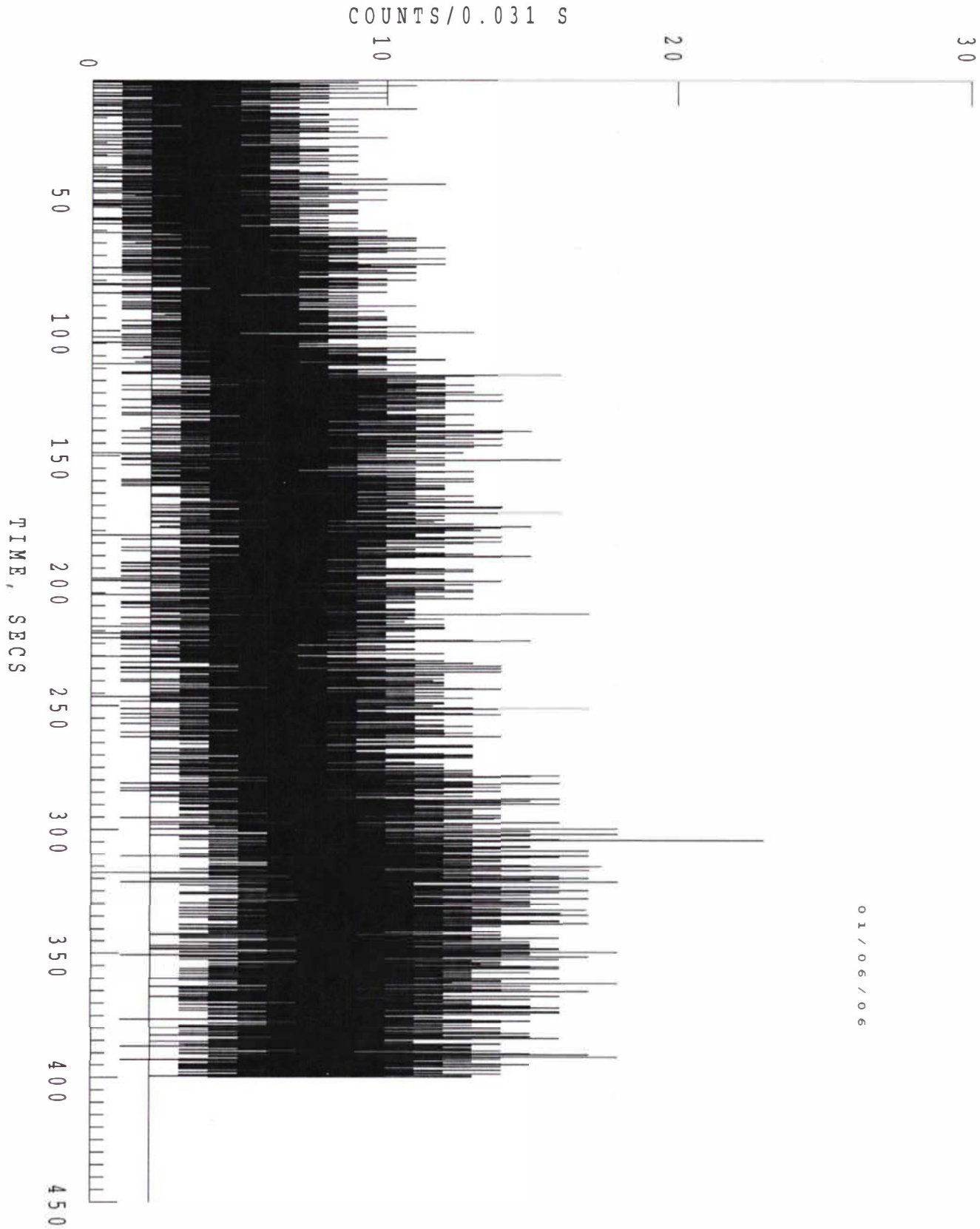
A

50- 3000 keV



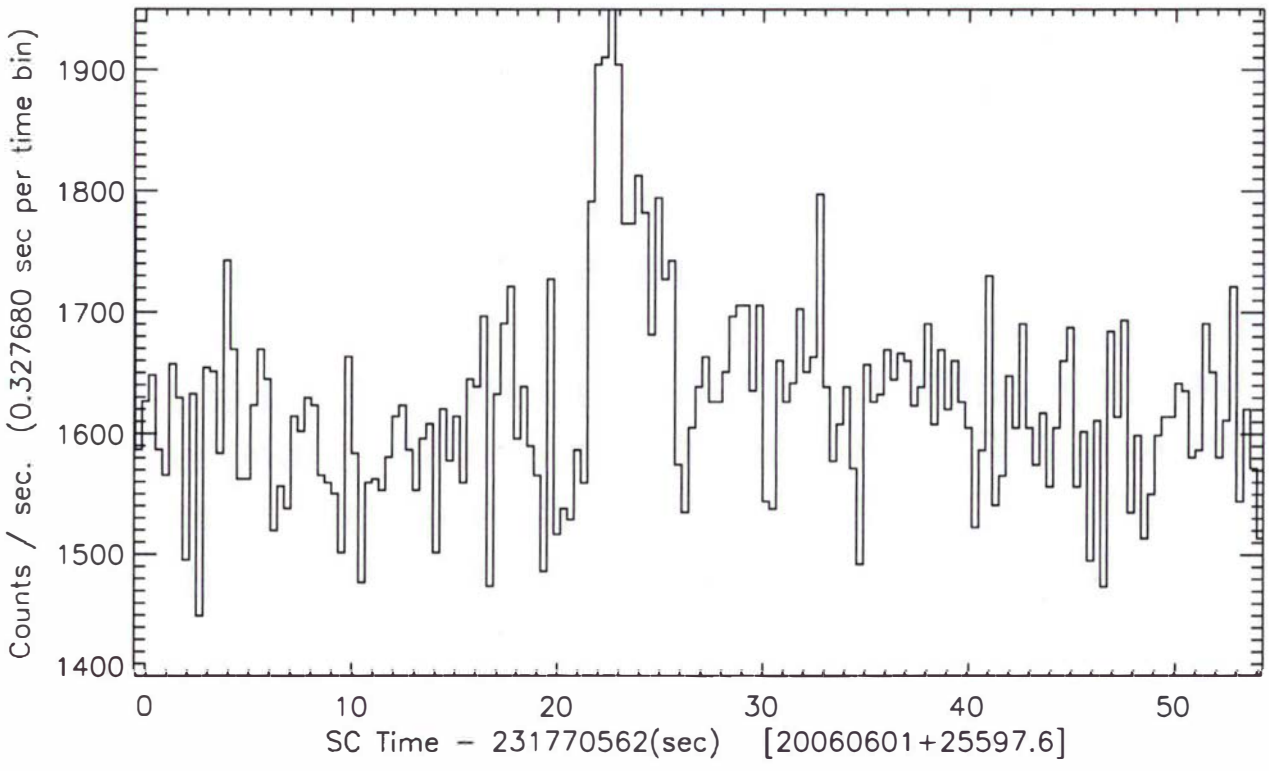
HESSI 01/06/06 18111.000 (SUZAKU_20060601_18311) A

25- 150 keV



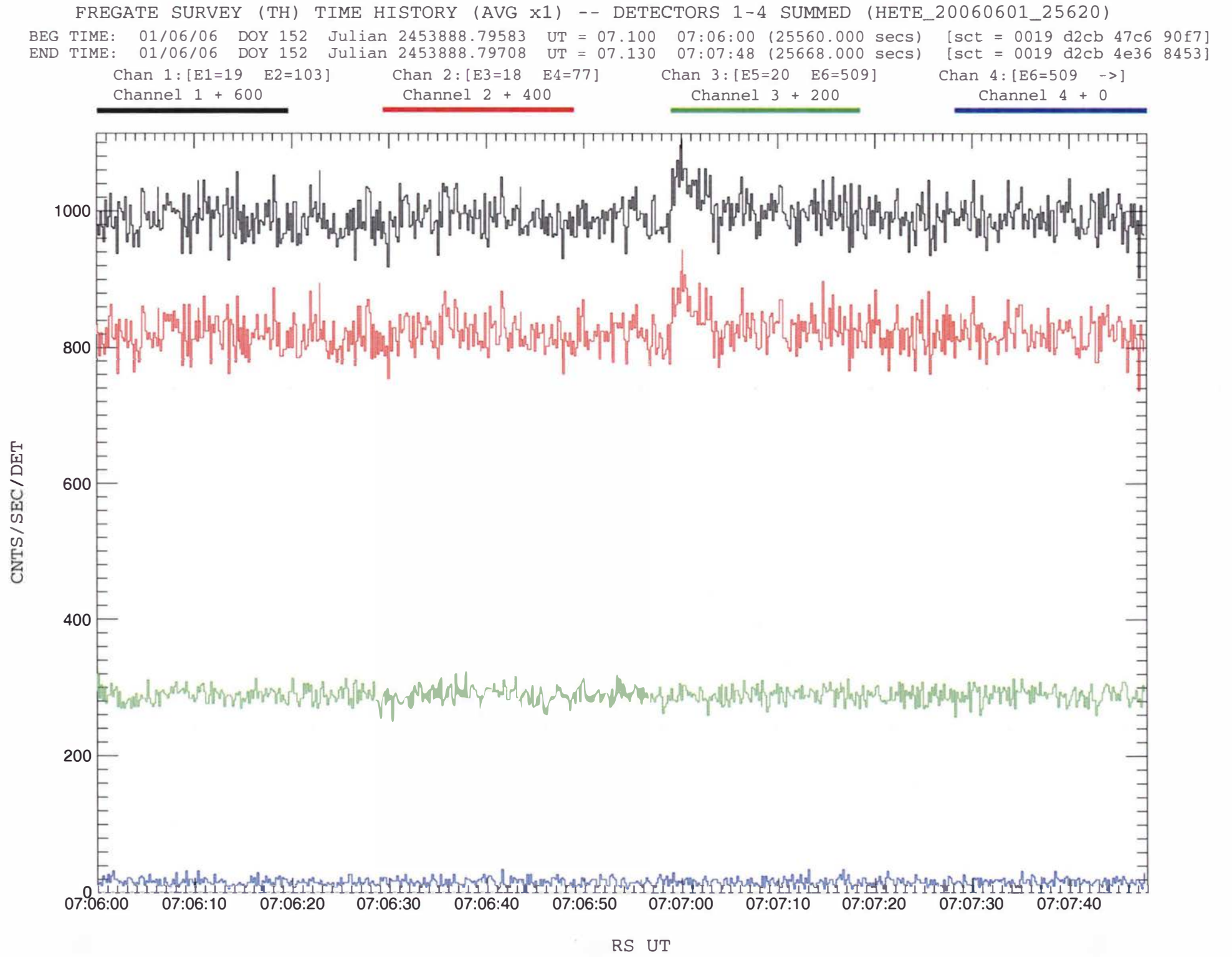
B

25620 s 07:07:00



D1: 1000 - D2: 1000 - D3: 1000 - D4: 1000

From : /home/atteia/ffl/thcat_data/thcat_0605_3101.ipp (IPPs 0 a 10136)


FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (HETE_20060601_25620)
BEG TIME: 01/06/06 DOY 152 Julian 2453888.79583 UT = 07.100 07:06:00 (25560.000 secs) [sct = 0019 d2cb 47c6 90f7]
END TIME: 01/06/06 DOY 152 Julian 2453888.79708 UT = 07.130 07:07:48 (25668.000 secs) [sct = 0019 d2cb 4e36 8453]
Chan 1:[E1=19 E2=103]
Channel 1 + 600
Chan 2:[E3=18 E4=77]
Channel 2 + 400
Chan 3:[E5=20 E6=509]
Channel 3 + 200
Chan 4:[E6=509 ->]
Channel 4 + 0
CNTS/SEC/DET
1000
800
600
400
200
0
07:06:00
07:06:10
07:06:20
07:06:30
07:06:40
07:06:50
07:07:00
07:07:10
07:07:20
07:07:30
07:07:40
RS UT

B

```
From atteia@ast.obs-mip.fr Fri Sep  8 09:38:43 2006
X-ASG-Debug-ID: 1157733584-620700590000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: mail.ast.obs-mip.fr[195.83.21.1]
X-Barracuda-Start-Time: 1157733584
Date: Fri, 08 Sep 2006 18:39:30 +0200
From: Jean Luc Atteia <atteia@ast.obs-mip.fr>
User-Agent: Mozilla Thunderbird 1.0.8-1.4.1 (X11/20060420)
X-Accept-Language: en-us, en
MIME-Version: 1.0
To: Kevin Hurley <khurley@ssl.berkeley.edu>, atteia@ast.obs-mip.fr
X-ASG-Orig-Subj: Re: FREGATE events: June 2006
Subject: Re: FREGATE events: June 2006
Content-Transfer-Encoding: 7bit
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-ASG-Whitelist: Sender (Per-User)

Bonjour Kevin,

Il a l'air reel, mais je pense que c'est un XRB, comme il y en a
des montagnes en juin. Est-ce que tu as une raison de penser
que ca n'est pas un XRB ?

Amities,

JL

Kevin Hurley wrote:

 Bonjour Jean-Luc,

>Est-ce que l'evenement du 1 juin a 25620 est cosmique?
>
>Amities
>
>Kevin
>
>
>
>>From atteia@ast.obs-mip.fr Fri Sep  1 05:12:25 2006
>>X-ASG-Debug-ID: 1157112806-018b00140000-LqZNIK
>>X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
>>X-Barracuda-Connect: mail.ast.obs-mip.fr[195.83.21.1]
>>X-Barracuda-Start-Time: 1157112806
>>Date: Fri, 01 Sep 2006 14:13:22 +0200
>>From: Jean Luc Atteia <atteia@ast.obs-mip.fr>
>>User-Agent: Mozilla Thunderbird 1.0.8-1.4.1 (X11/20060420)
>>X-Accept-Language: en-us, en
>>MIME-Version: 1.0
>>To: Kevin Hurley <khurley@ssl.berkeley.edu>,
>>        Jean Luc Atteia <atteia@ast.obs-mip.fr>
>>X-ASG-Orig-Subj: FREGATE events: June 2006
>>Subject: FREGATE events: June 2006
>>Content-Transfer-Encoding: 7bit
>>X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
 >X-ASG-Whitelist: Sender (Per-User)
>>
>>A FAIRE:
>>--------
>>
```

B

```
From owner-hete-science@space.mit.edu Thu Jun  1 03:15:31 2006
X-ASG-Debug-ID: 1149156951-161a00120000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
`-Barracuda-Connect: SPACE.MIT.EDU[18.75.0.10]
 -Barracuda-Start-Time: 1149156951
Date: Thu, 01 Jun 2006 12:15:18 +0200
From: Jean Luc Atteia <atteia@ast.obs-mip.fr>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.7.13) Gecko/20060414 Re
X-Accept-Language: en-us, en
MIME-Version: 1.0
To: HETE Science Team <hete-science@space.mit.edu>
X-ASG-Orig-Subj: [hete-science] [Fwd: Trigger Notice 3 20060601_064021]
Subject: [hete-science] [Fwd: Trigger Notice 3 20060601_064021]
X-MajorDomo-List: hete-science
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-ASG-Whitelist: Sender (Per-User)

This is another real event, but not seen in the WXM...

Regards,

JL

Return-Path: <hops@space.mit.edu>
Received: from murder ([unix socket])
         by mail.ast.obs-mip.fr (Cyrus v2.2.12-Invoca-RPM-2.2.12-3.RHEL4.1) with
         Thu, 01 Jun 2006 11:12:55 +0200
X-Sieve: CMU Sieve 2.2
Received: from localhost (mail [127.0.0.1])
        by mail.ast.obs-mip.fr (Postfix) with ESMTP id 1AA1C2EC6BE
        for <atteia@ast.obs-mip.fr>; Thu,  1 Jun 2006 11:12:55 +0200 (CEST)
Received: from mail.ast.obs-mip.fr ([127.0.0.1])
 by localhost (mail.ast.obs-mip.fr [127.0.0.1]) (amavisd-new, port 10024)
 with ESMTP id 05686-04 for <atteia@ast.obs-mip.fr>;
 Thu,  1 Jun 2006 11:12:51 +0200 (CEST)
Received: from space.mit.edu (SPACE.MIT.EDU [18.75.0.10])
        by mail.ast.obs-mip.fr (Postfix) with ESMTP
        for <atteia@ast.obs-mip.fr>; Thu,  1 Jun 2006 11:12:51 +0200 (CEST)
Received: from moe.mit.edu (moe.mit.edu [18.75.0.144])
        by space.mit.edu (8.13.6/8.13.6/csr-4.0.5) with ESMTP id k519Cfjq018591;
        Thu, 1 Jun 2006 05:12:41 -0400 (EDT)
Received: (from hops@localhost)
        by moe.mit.edu (8.9.3p3/csr-2.4c) id FAA12722;
        Thu, 1 Jun 2006 05:12:41 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
Message-Id: <200606010912.FAA12722@moe.mit.edu>
Subject: Trigger Notice 3 20060601_064021
To: nrbutler@space.mit.edu (Nat Butler),
        roland@space.mit.edu (Roland Vanderspek), carlo@oddjob.uchicago.edu,
        torii@crab.riken.go.jp, graziella.pizzichini@bo.iasf.cnr.it,
        grr@space.mit.edu (George R. Ricker), rosalia@galassi.org,
        jsvilla@space.mit.edu (Joel Villasenor), jgj@ssl.berkeley.edu,
        atteia@ast.obs-mip.fr
Date: Thu, 1 Jun 2006 09:12:41 +0000 (GMT)
X-Mailer: ELM [version 2.4ME+ PL25 (25)]
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
X-Virus-Scanned: amavisd-new at ast.obs-mip.fr
```

B

```
UTC:    20060601_070700.140000
GPS:    833180834.140000
Burst: GRB060601+25620.140000
 ET:    231770584.529674
 ase at time 833180834.140000 is 0.277
POSITION:  172.45 deg E, 0.45 N, 585.16 km:  closest station is Bldg806

Score=3 ; Trigger(s):
GAM Ch 2 at GPS 833180834.140 s, 1.960 s duration, SNR=7.94
THG Ch 2 at GPS 833180834.570 s, 2.460 s duration, SNR=7.72
GAM Ch 1 at GPS 833180834.790 s, 2.620 s duration, SNR=8.58
GAM Ch 2 at GPS 833180834.790 s, 2.620 s duration, SNR=8.26
GAM Ch 1 at GPS 833180835.120 s, 3.280 s duration, SNR=8.49
GAM Ch 1 at GPS 833180835.285 s, 4.250 s duration, SNR=9.94
GAM Ch 2 at GPS 833180835.285 s, 4.250 s duration, SNR=9.62
THX Ch 4 at GPS 833180835.545 s, 6.150 s duration, SNR=6.43
THG Ch 1 at GPS 833180835.800 s, 4.920 s duration, SNR=9.06
THX Ch 2 at GPS 833180836.160 s, 7.360 s duration, SNR=6.79
THX Ch 2 at GPS 833180836.160 s, 7.380 s duration, SNR=5.74
THX Ch 4 at GPS 833180836.160 s, 7.360 s duration, SNR=7.60
THG Ch 1 at GPS 833180836.415 s, 6.130 s duration, SNR=11.79
THG Ch 2 at GPS 833180836.415 s, 6.130 s duration, SNR=9.51
POS Ch 4 at GPS 833180841.060 s, 22.140 s duration, SNR=5.52

The THG A event dis-favors a quadratic background model at       8.3093383 sigma
Signal is in THX at       4.0828868 sigma confidence.
Signal is in THG A at       8.3093383 sigma confidence.
Signal is in THG C at       1.5719003 sigma confidence.

 ==== WXM coarse location (~20 arcmin error) is:
   Theta      F_good     SNR_Image  SNR_LC
X: 22.77      0.99       8.55       6.57
Y: -21.06     0.40       0.00       0.00
=====
(Ra,Dec) = ( 273.647,  -32.282) = (18h14m35s.2, -32o16'55")
Estimated Error Radius: 192.59 arcmin
Using aspect 833180834.3 70.631 57.075 89.323 (dt=-6.76)
       0 X-ray source(s) is (are) within 1 degrees.

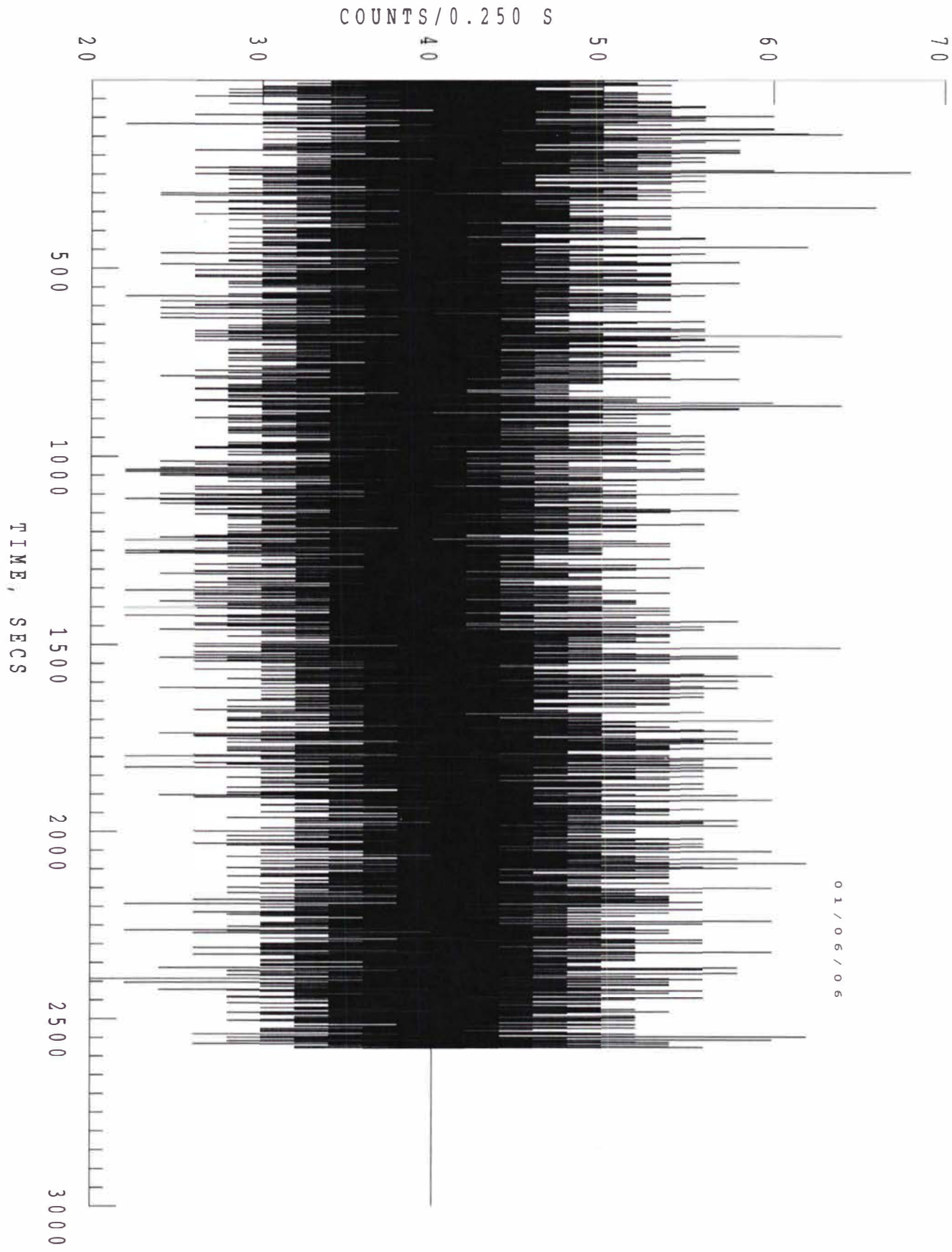

See:
 /nfs/flash/d1/HETE/Untriggered/UBID_29020
 http://benz.mit.edu:611/Ops/trigger_summary/ALL20060601_064021.html
 $HETE_OPS/commands/ops/GroundTriggering.proc

---
Trigger Score System
  0. Weak Trigger
  1. Fregate Only
  2. WXM Only or (Fregate A and Fregate C)
  3. WXM and Fregate A
  4. WXM and Fregate A and Fregate C
```

MS01 01/06/06 24311.516

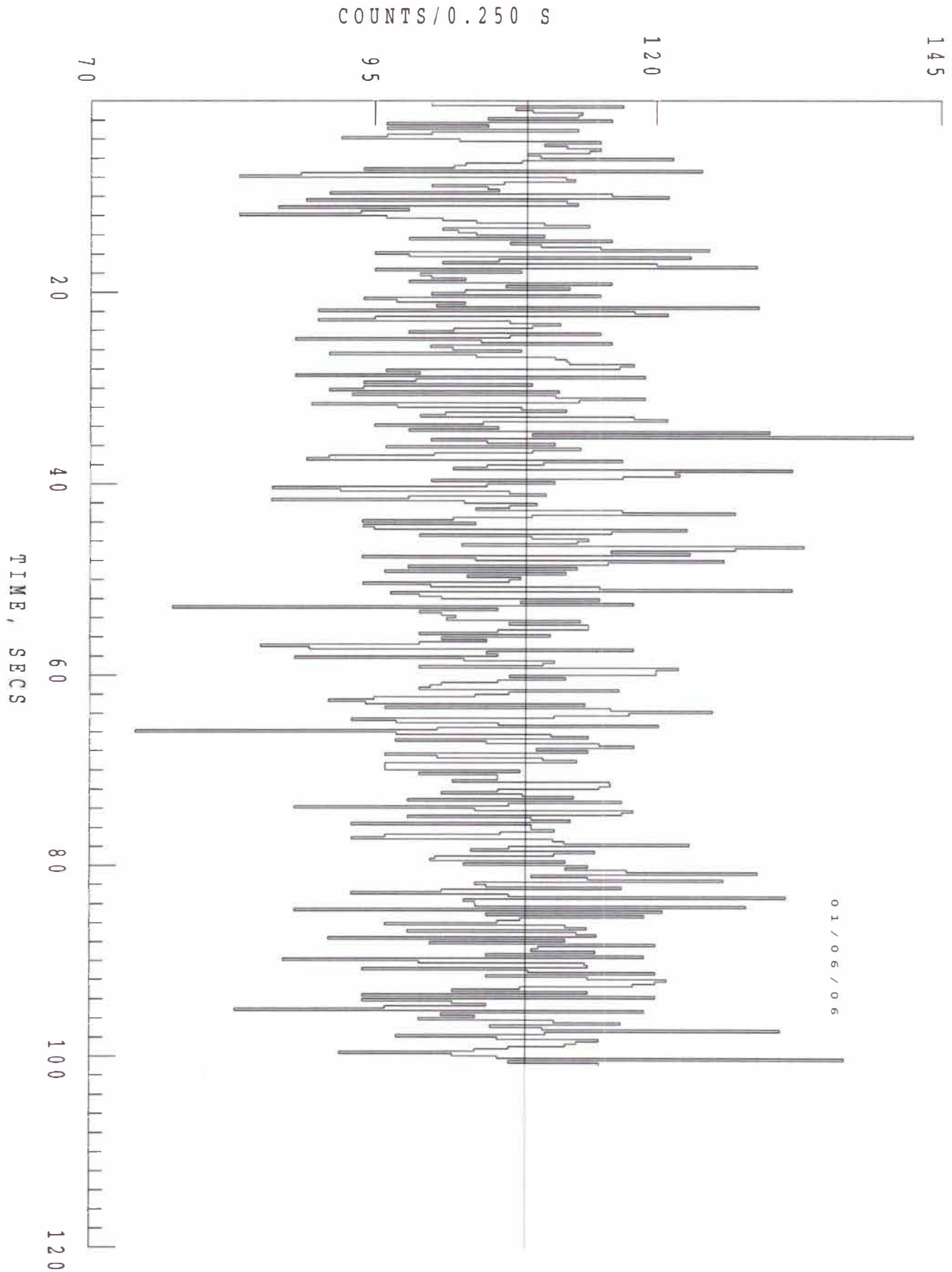
B

50- 3000 keV



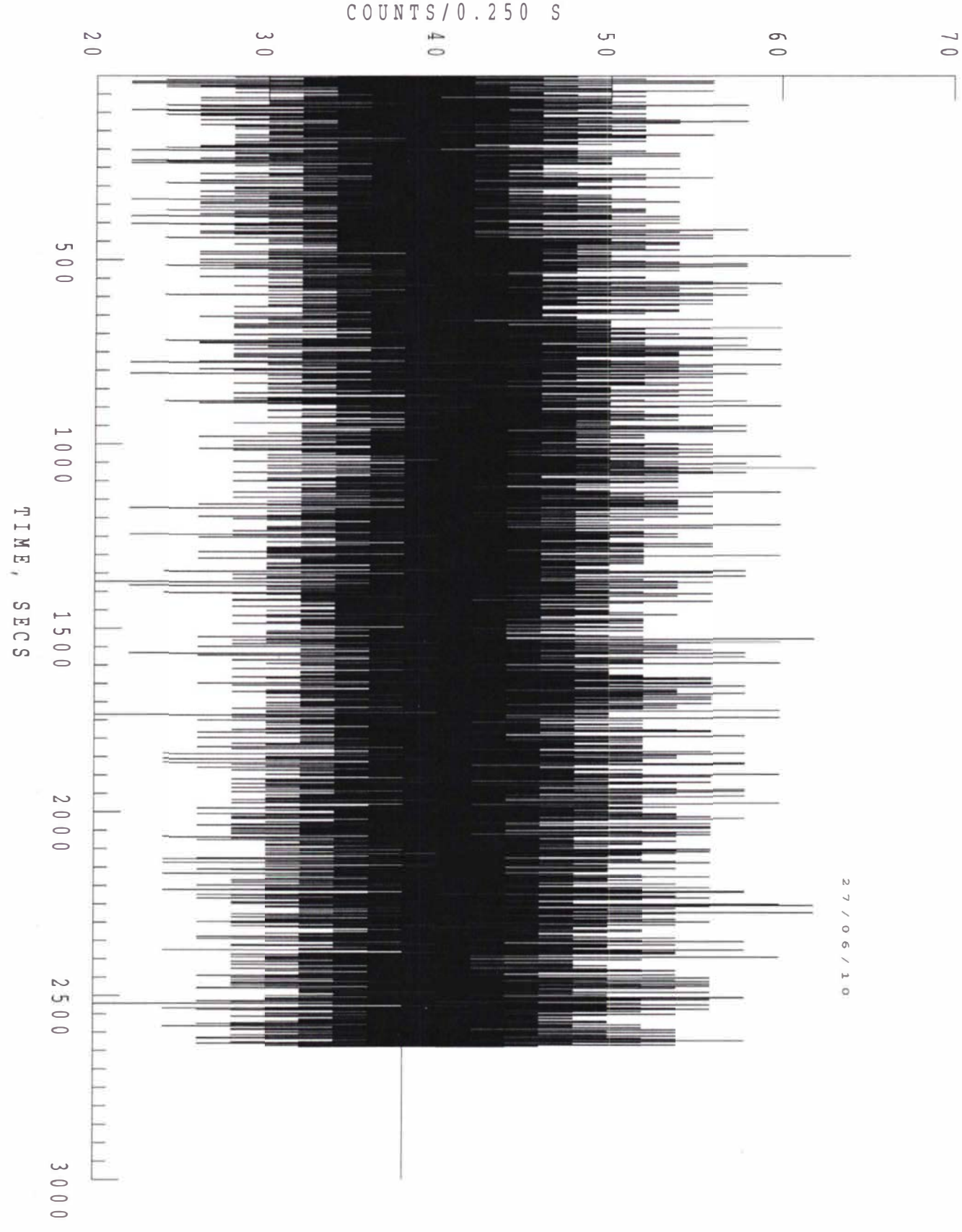
HESSI 01/06/06 25569.000 (HETE_20060601_25620) B

25- 150 keV



MS01 01/06/06 25330.475 Konus RI

50- 3000 keV



From williams@penelope.ssl.berkeley.edu Fri Jun 25 15:10:54 2010
X-Barracuda-Envelope-From: williams@penelope.ssl.berkeley.edu
Date: Fri, 25 Jun 2010 15:27:07 -0700 (PDT)
From: williams@penelope.ssl.berkeley.edu
To: khurley@ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS_RI_20060601_26691

HESSI 50 to 200 keV Counts
Created 25-Jun-2010 15:12:16.00
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

Date: Oct 29 2010

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

☑ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

2. AGILE Data

☐ 1 second timing error corrected?

3. MESSENGER Data

☐ Coarse or Precision oscillator (C or P bronte.jhuapl.edu/spice/kernels/sclk/timekeeping/OPS_TIME_ENGR.txt)?

☐ Timing checked after ~ 1 week?

4. For Konus events

☐ Konus ecliptic latitude used with latest calibration?

5. For Odyssey events

☐ Was CHECKMO run to eliminate data gaps?

☐ Did the Odyssey ephemeris correspond to the event time? (When there is data in the database, the ephemeris is for the start of record, usually ~1320 s prior to the request time; when there is no data in the database, the ephemeris is for the request time in the e-mail, so the request time in mosearch should be equal to the GRB time. Note that the time in the return e-mail will be ~1320 s prior to the time requested, in the line "no HEND data…")

☐ Was Mars-blocking used?

☐ For cruise phase data (April – October 2001), was the updated data used? (Old data has timing errors). For later data, was timing checked after ~1 week?

☐ GRS database searched for triggered data? Database data between August 2005 and January 2006 should be re-extracted, due to timing errors. (E-mailed data should be OK).

☐ GRS and HEND data cross-correlated to check timing?

6. For 3 or More Spacecraft events

☐ Σ 3Δt's calculated, and/or BMAPSUM executed?

7. For INTEGRAL events

☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?

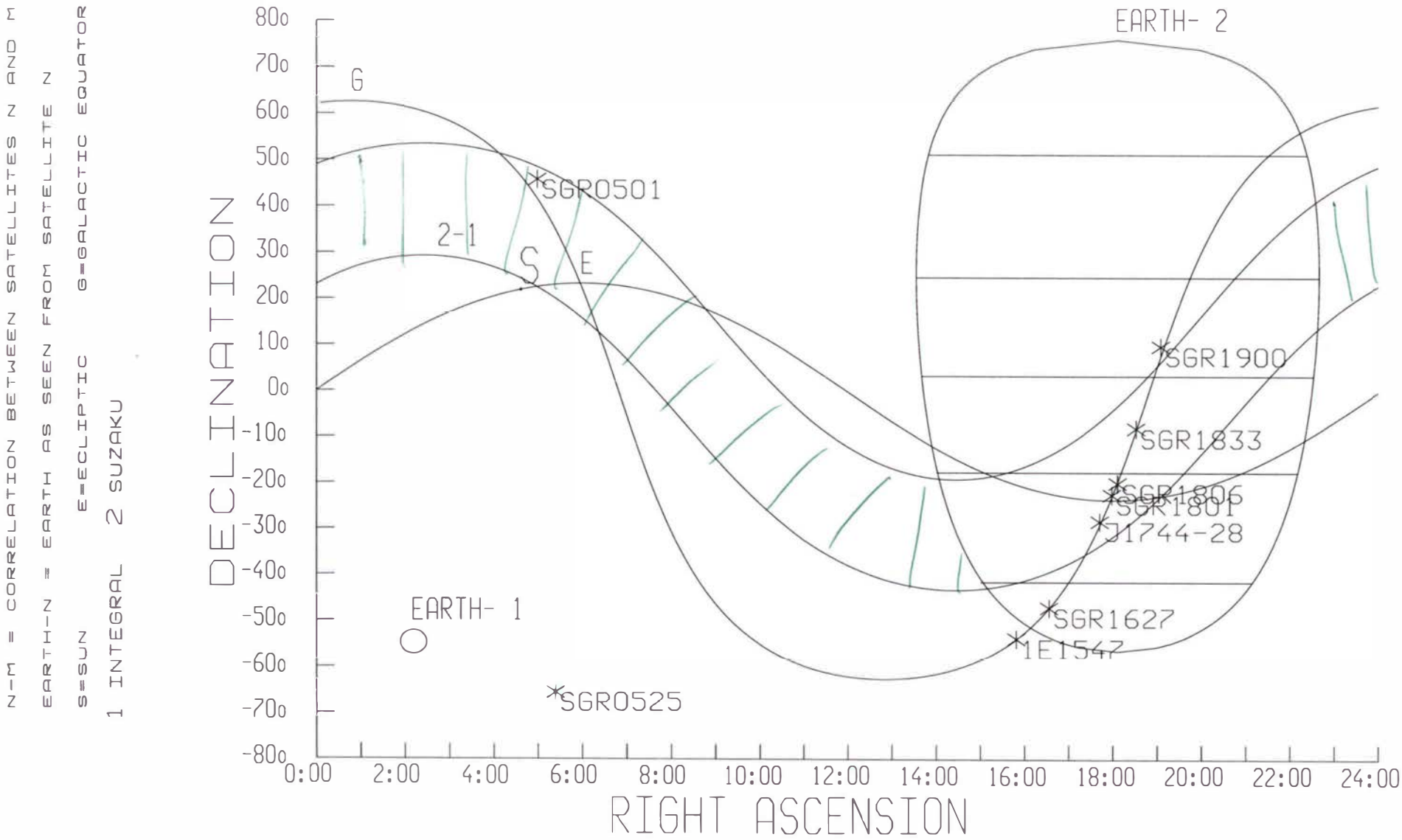
☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?

☐ Updated ephemeris used for bursts prior to September 30, 2003?

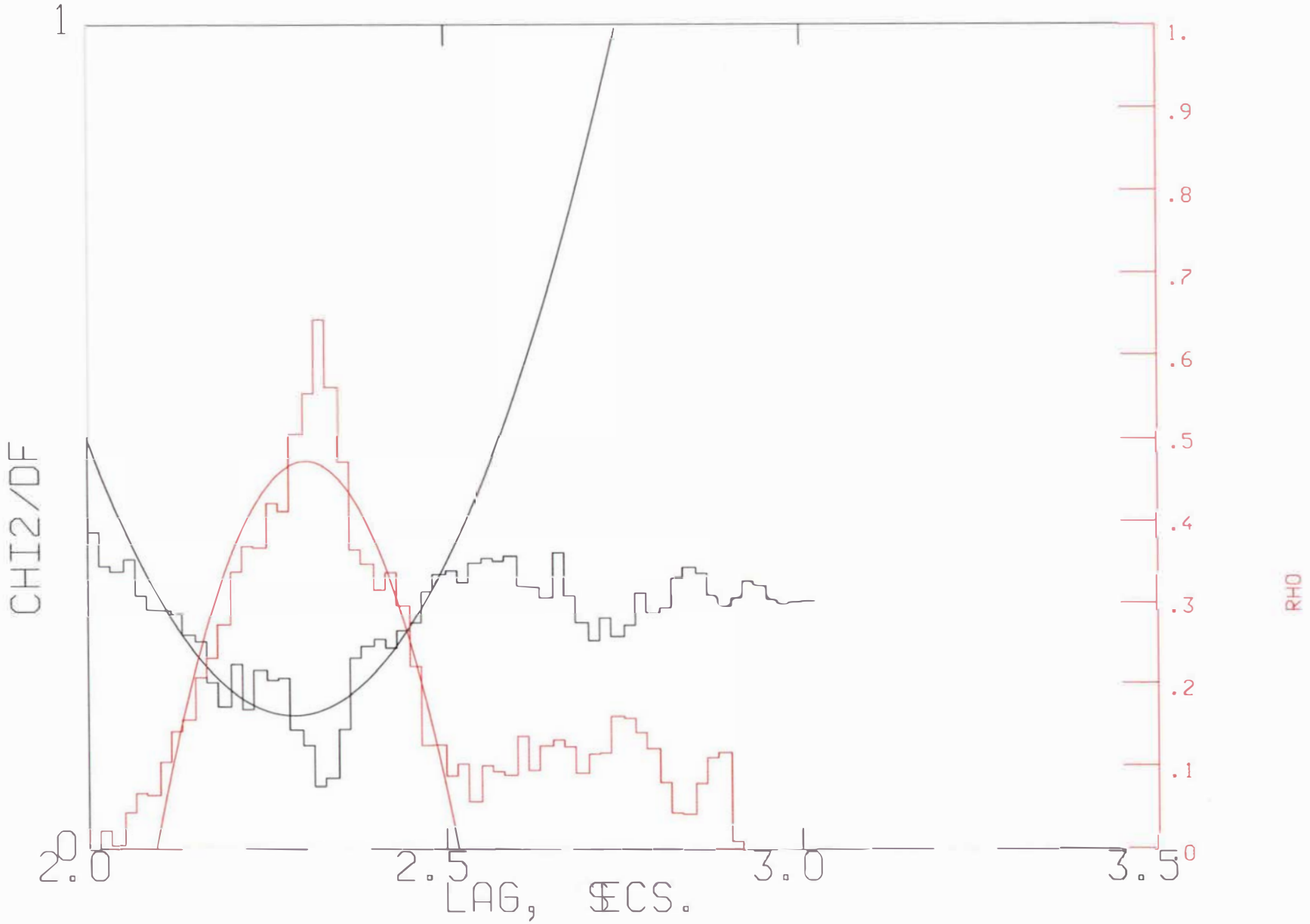
☑ ACCESS and MBL4 databases updated, with identical times?

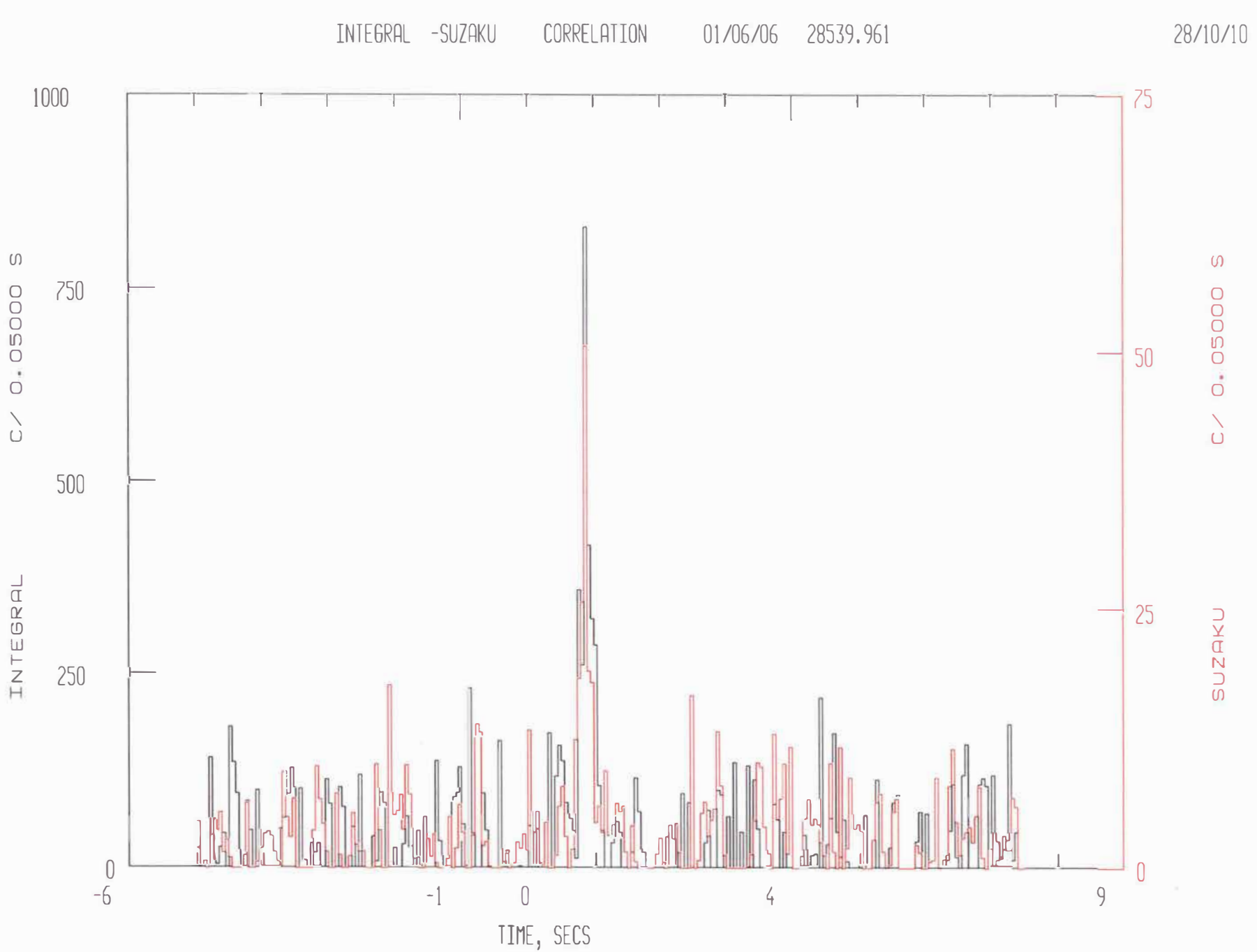
EVENT OF JUN 1, 2006 7:55

28/10/2010



INTEGRAL -SUZAKU CORRELATION 01/06/06 28539.961

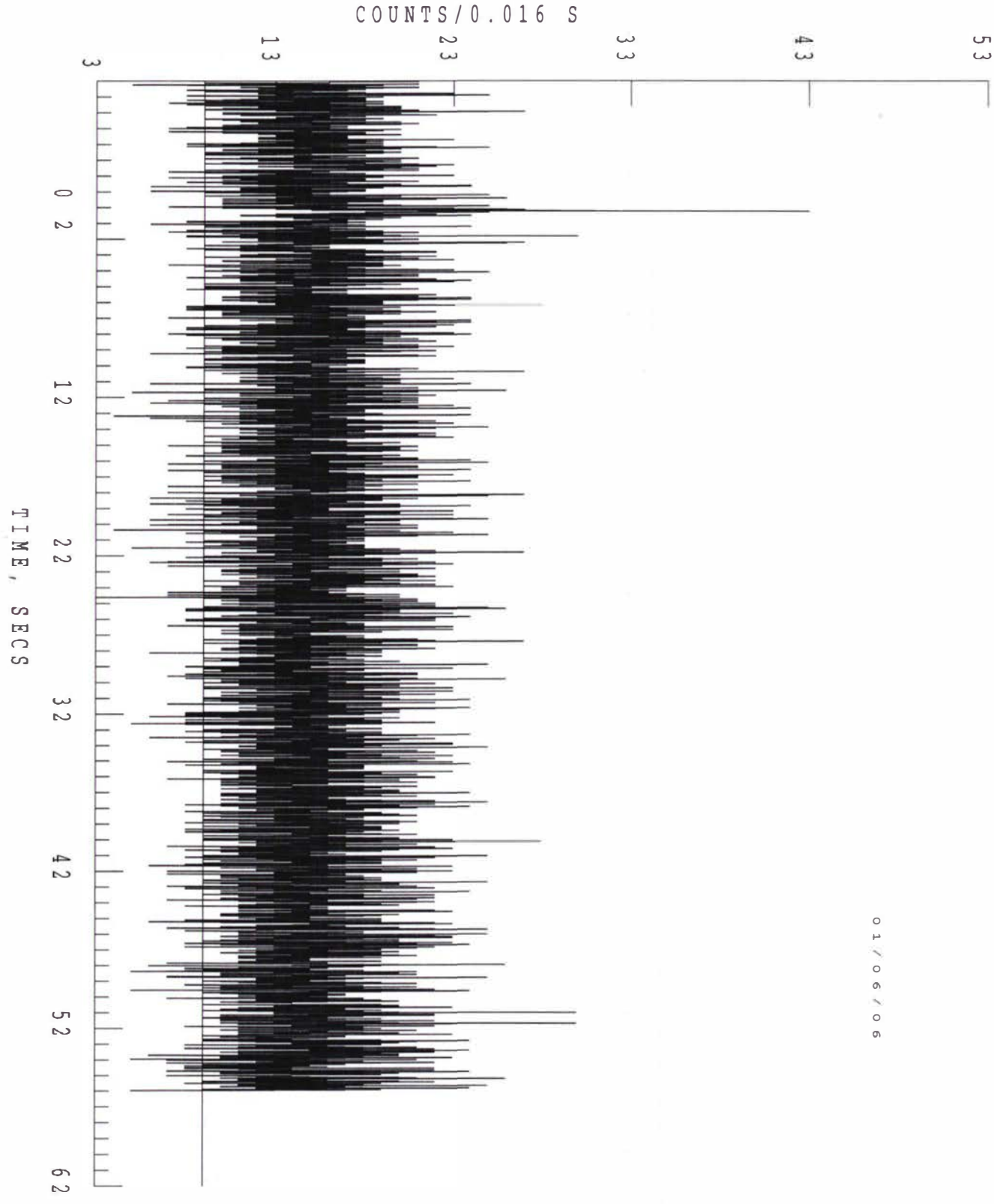



INTEGRAL -SUZAKU CORRELATION 01/06/06 28539.961 28/10/10
1000
750
500
250
0
C/ 0.05000 S
INTEGRAL
75
50
25
0
C/ 0.05000 S
SUZAKU
-6
-1
0
4
9
TIME, SECS

SUZAKU 01/06/06 28~~541.674~~ C

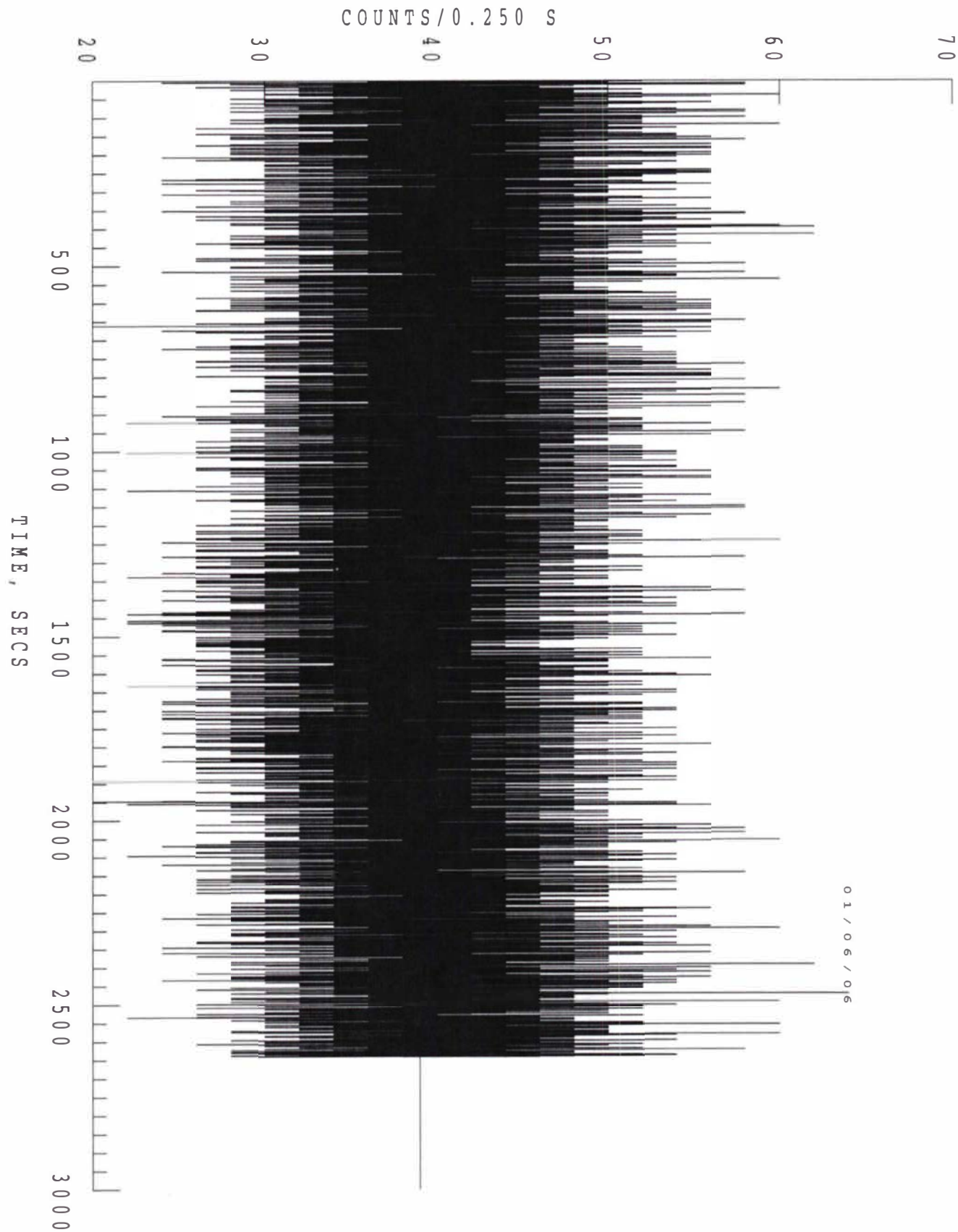
50- 240 keV ~~07:55:41~~

Old time - ~~off~~ by 1 s

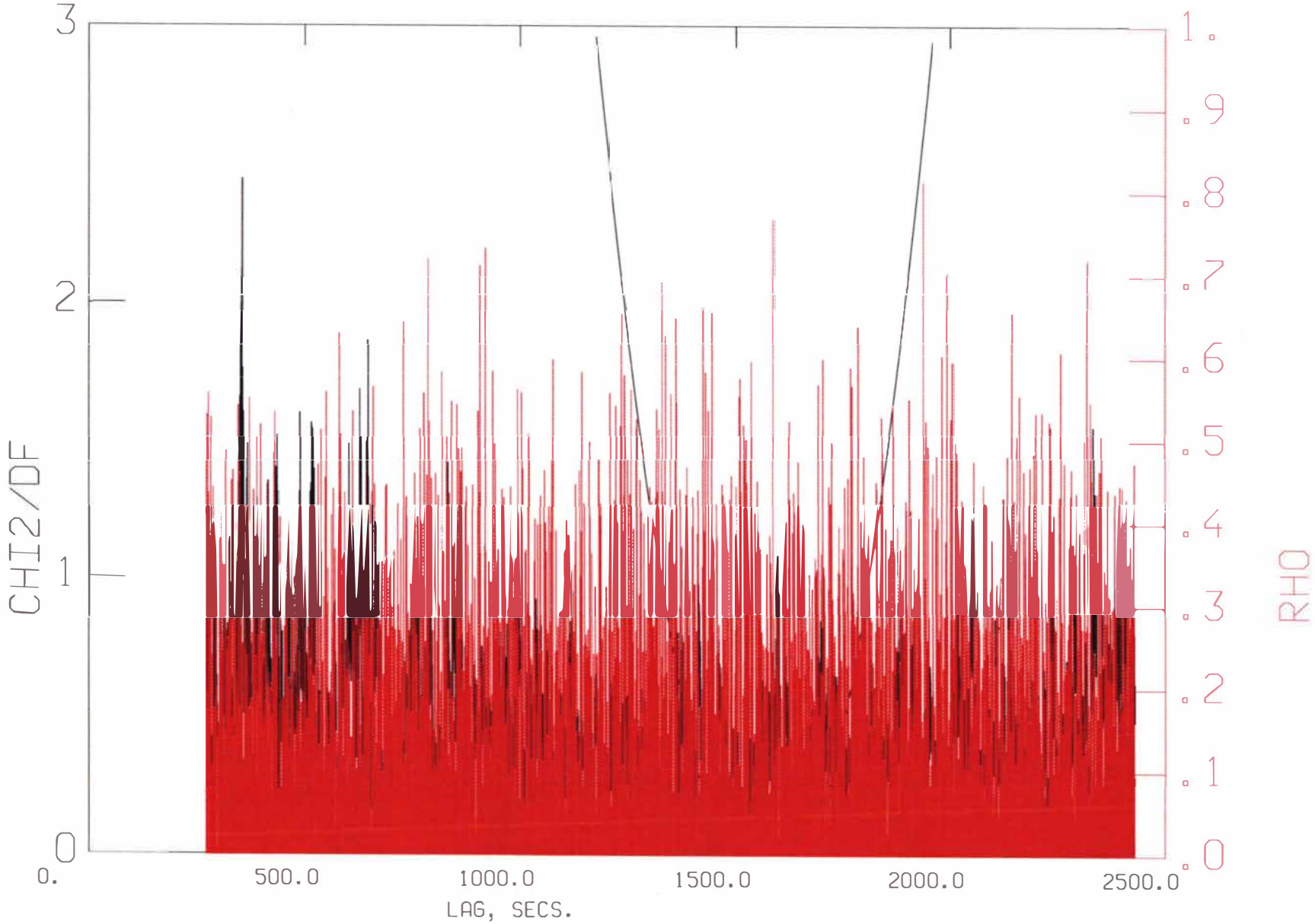


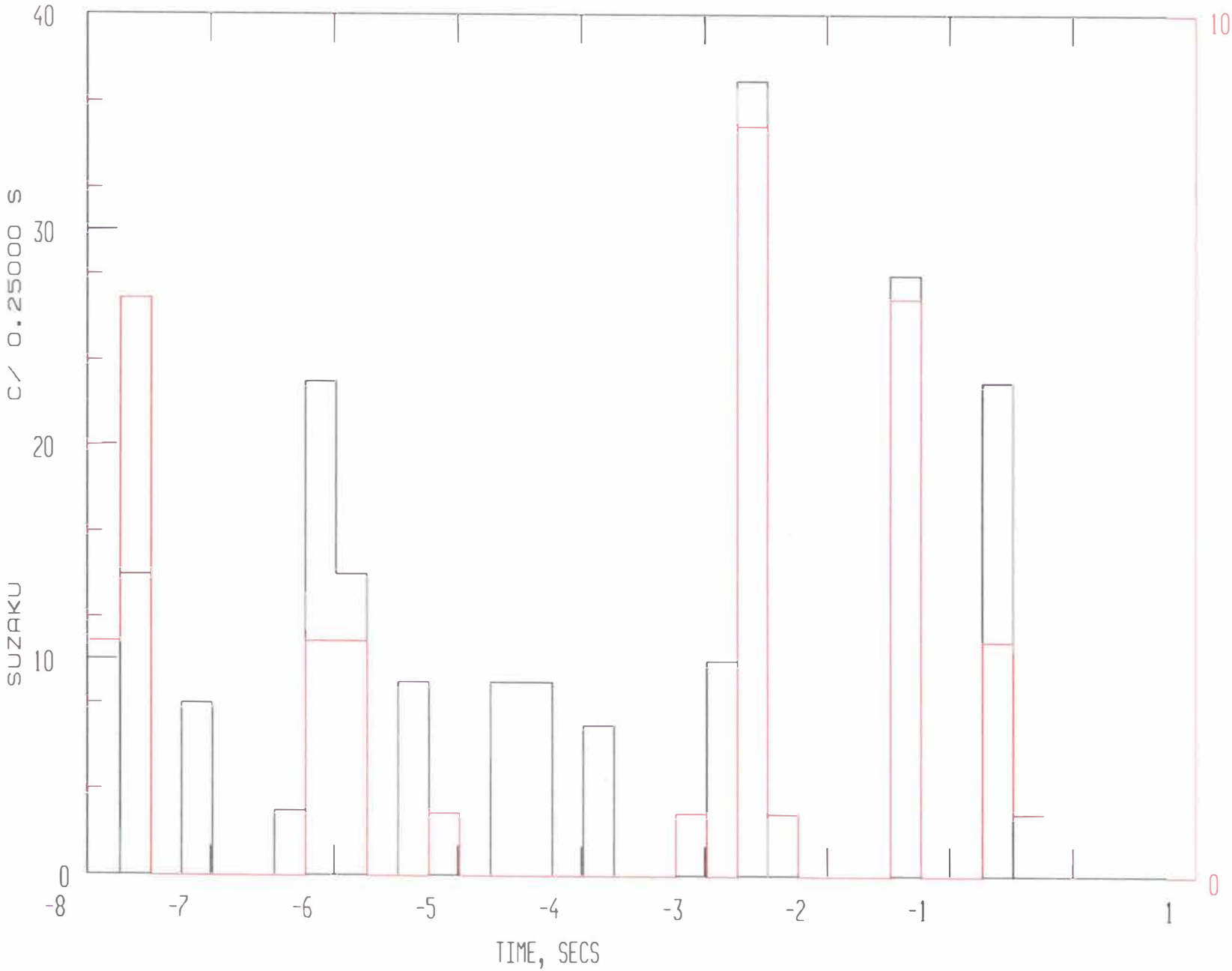
MS01 01/06/06 27191.458

50- 3000 keV

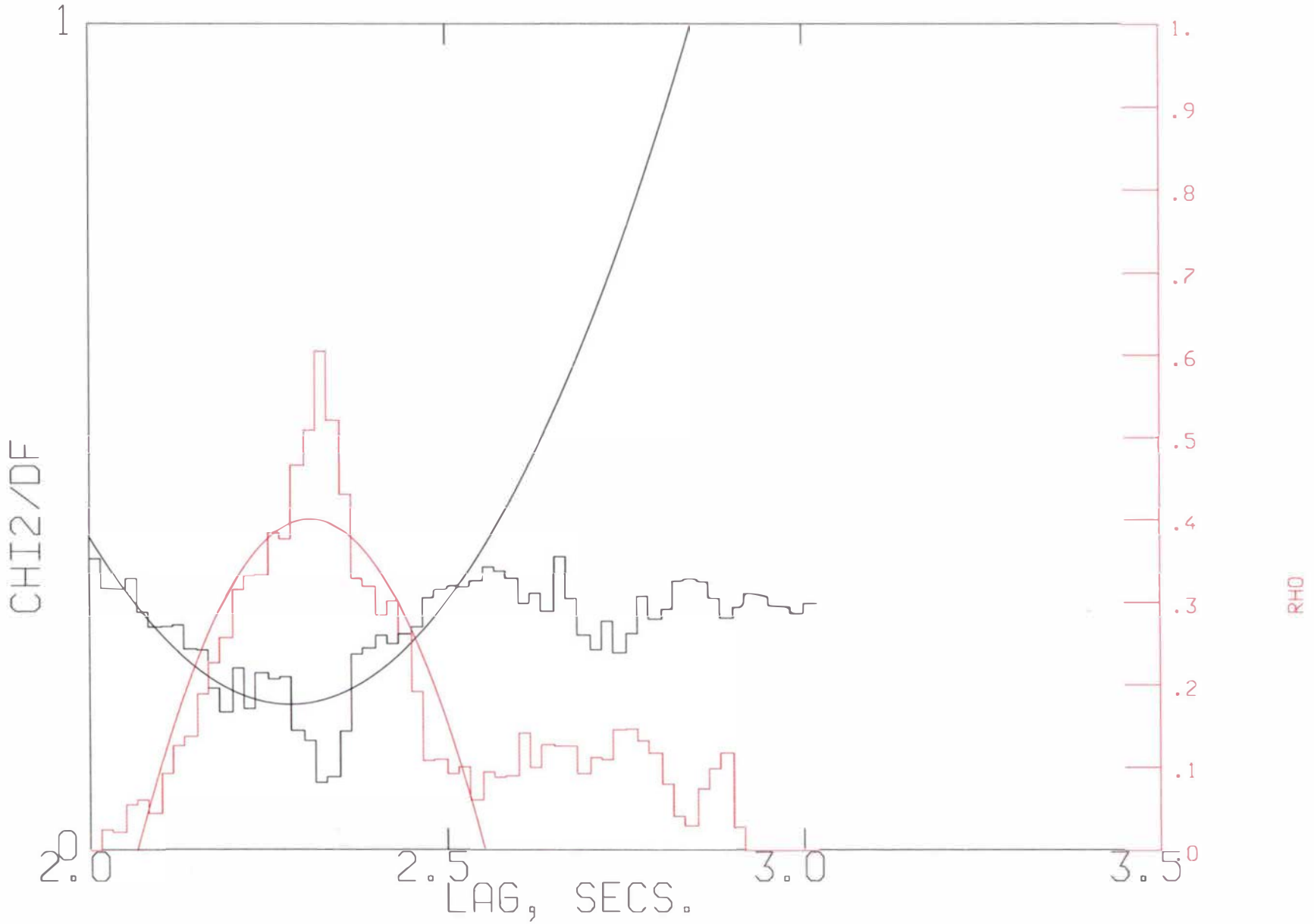


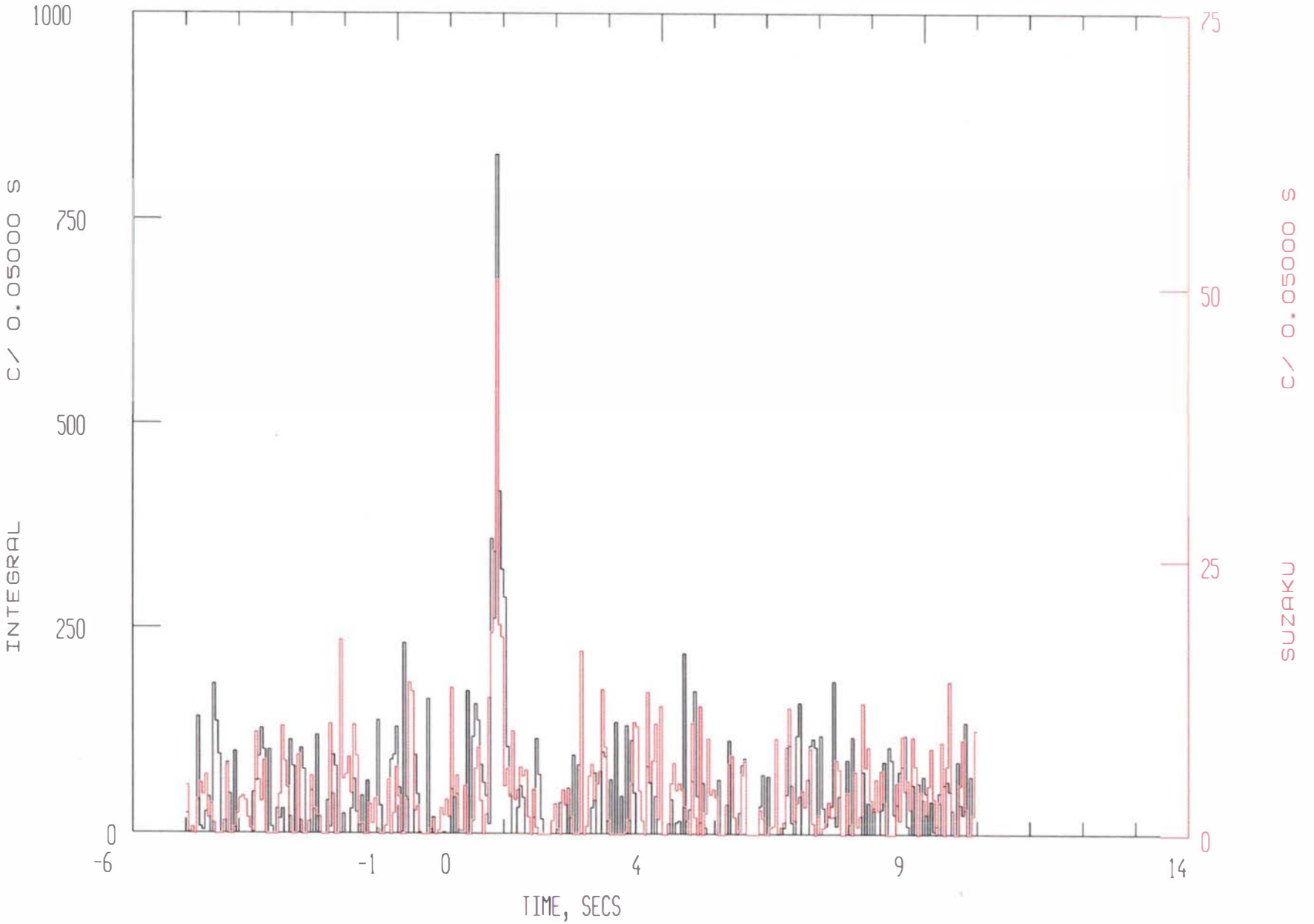
SUZAKU -MSO1 HEND CORRELATION 01/06/06 28541.674




40
30
20
10
0
C/ 0.25000 S
SUZAKU
10
0
C/ 0.25000 S
MSO1 HEND
-8
-7
-6
-5
-4
-3
-2
-1
1
TIME, SECS

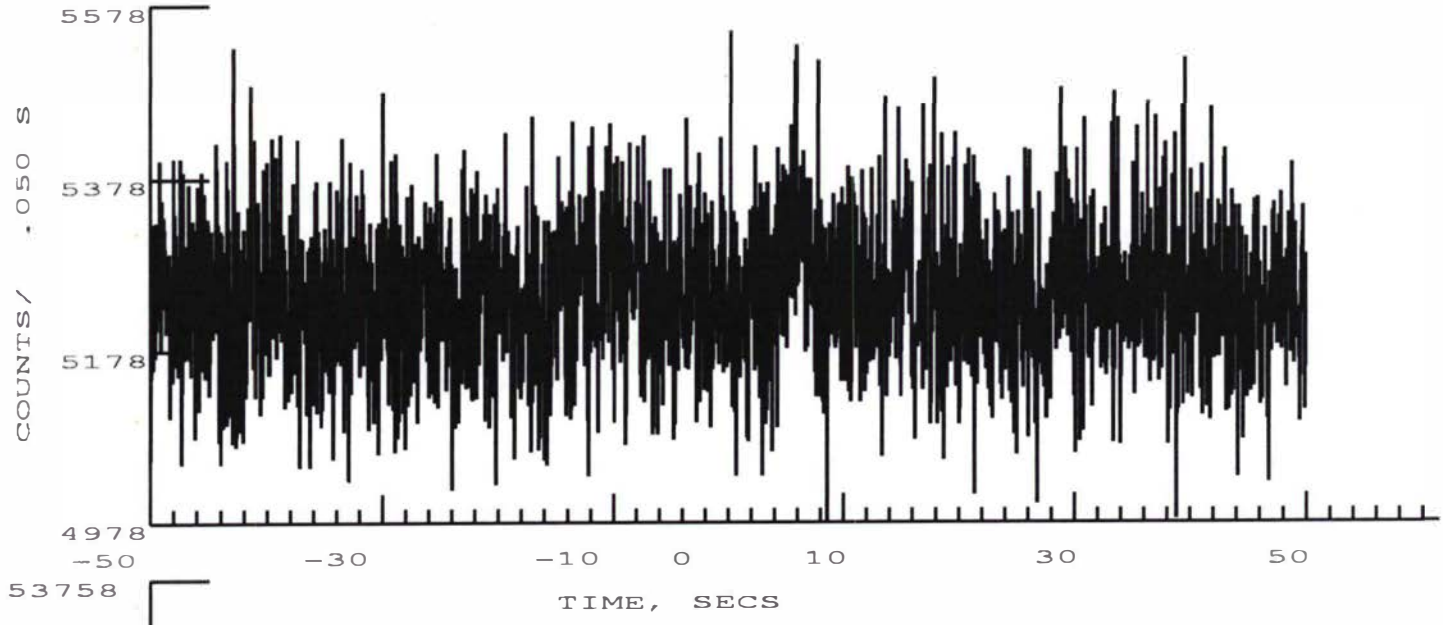
INTEGRAL -SUZAKU CORRELATION 01/06/06 28539.961

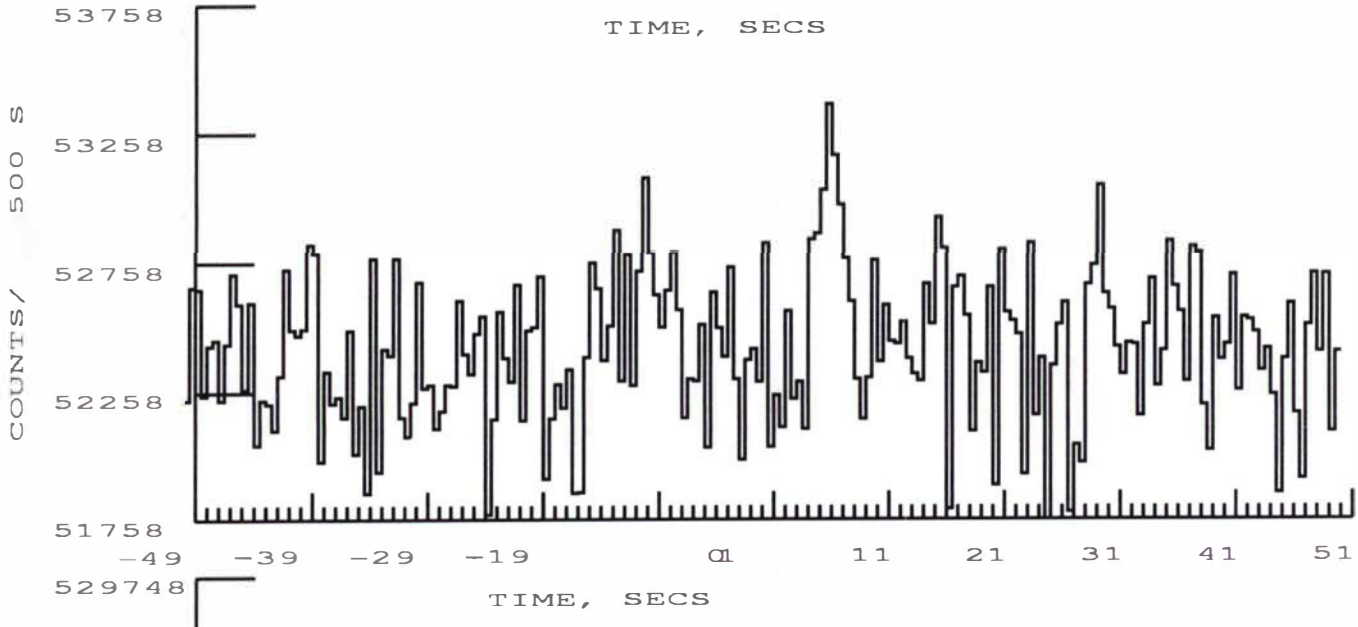


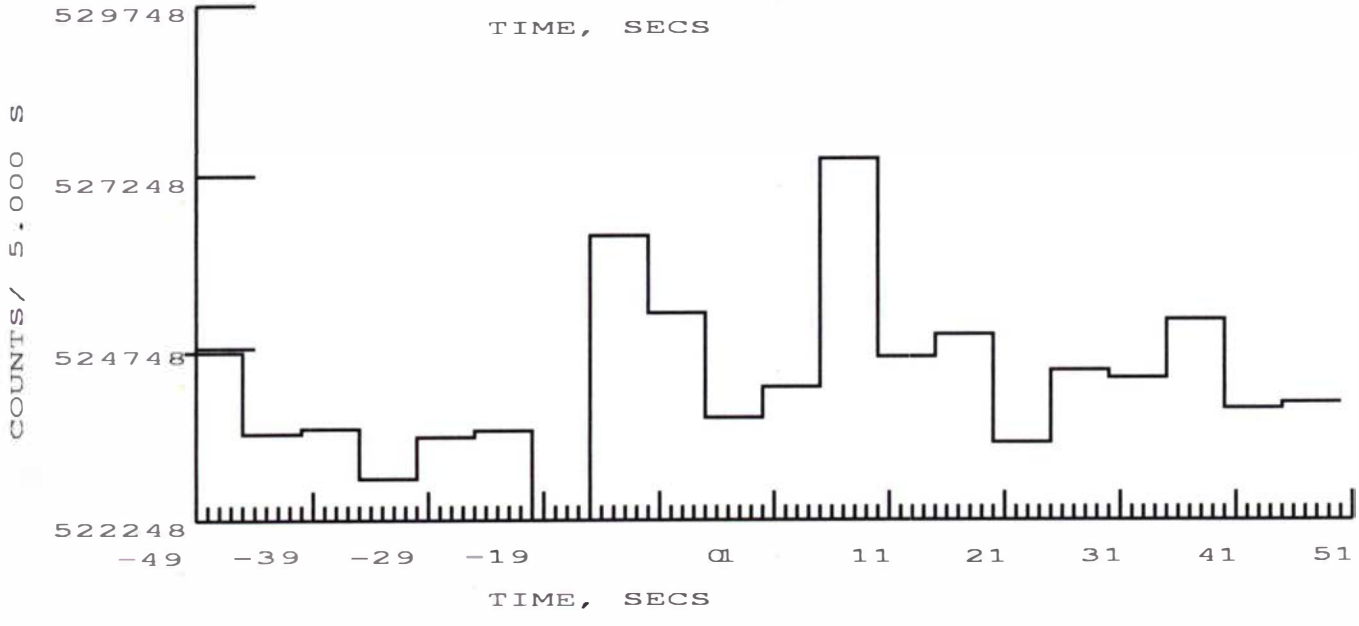

1000
750
500
250
0
C/ 0.05000 S
INTEGRAL
75
50
25
0
C/ 0.05000 S
SUZAKU
-6
-1
0
4
9
14
TIME, SECS

C

INTEGRAL 01/06/06 26691.000 07:24:51.0 11/07/14



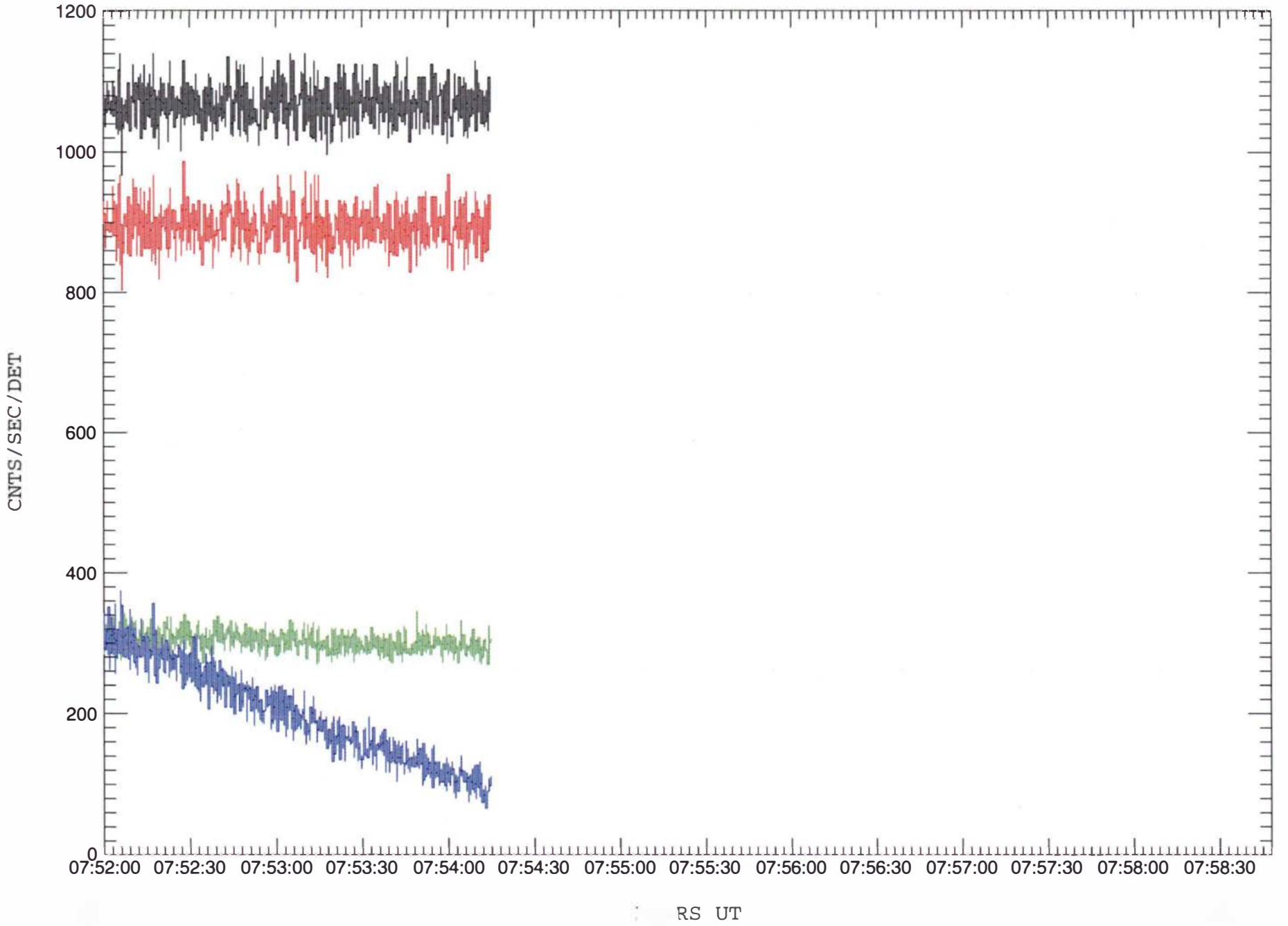




FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (INTEGRAL_20060601_28539)

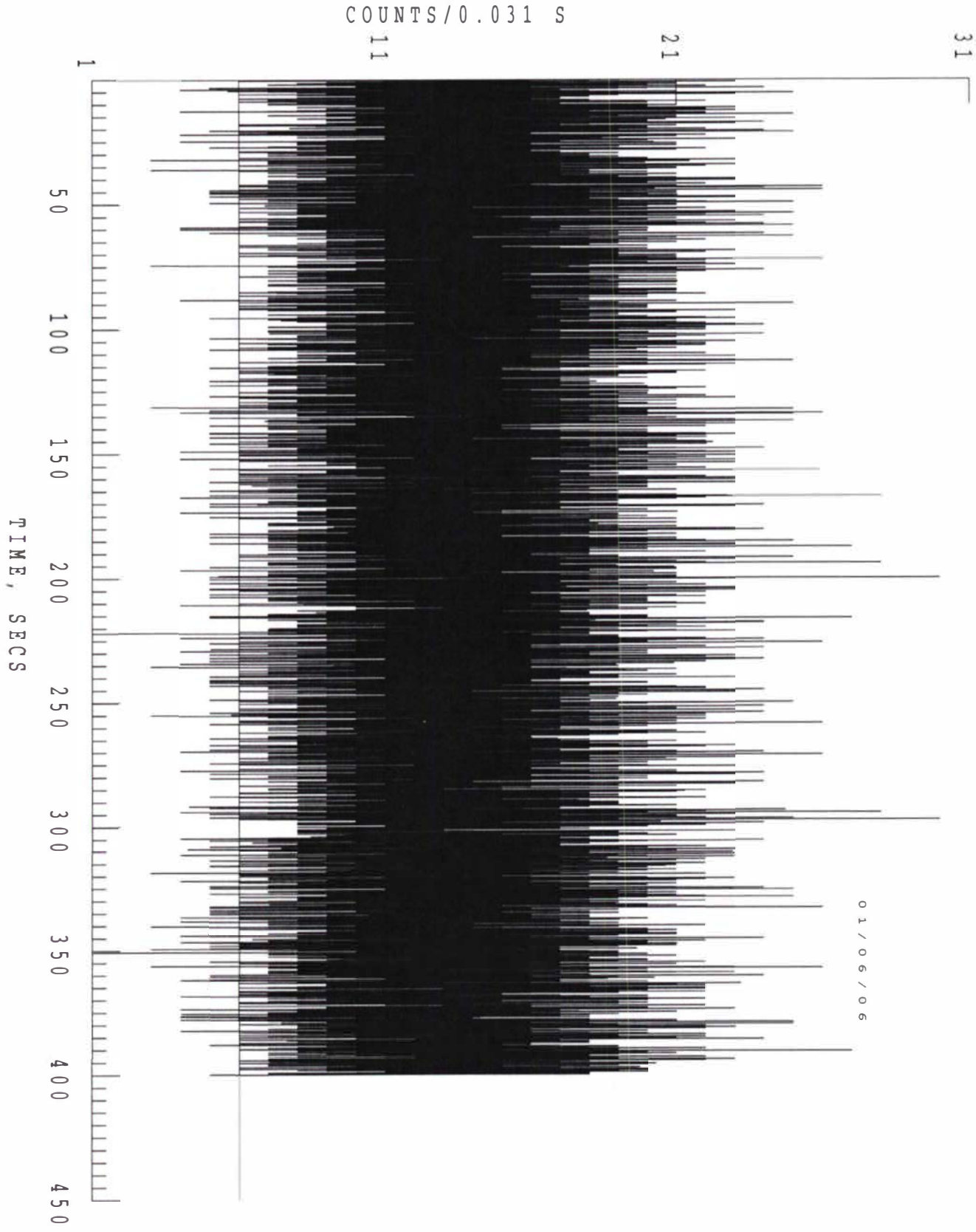
BEG TIME: 01/06/06 DOY 152 Julian 2453888.82792 UT = 07.870 07:52:12 (28332.000 secs) [sct = 0019 d2cb ecff f731]
END TIME: 01/06/06 DOY 152 Julian 2453888.83250 UT = 07.980 07:58:48 (28728.000 secs) [sct = 0019 d2cc 049a 7383]

Chan 1:[E1=19 E2=103] Channel 1 + 600
Chan 2:[E3=18 E4=77] Channel 2 + 400
Chan 3:[E5=19 E6=510] Channel 3 + 200
Chan 4:[E6=510 ->] Channel 4 + 0



HESSI 01/06/06 28341.000 (SUZAKU_20060601_28541)

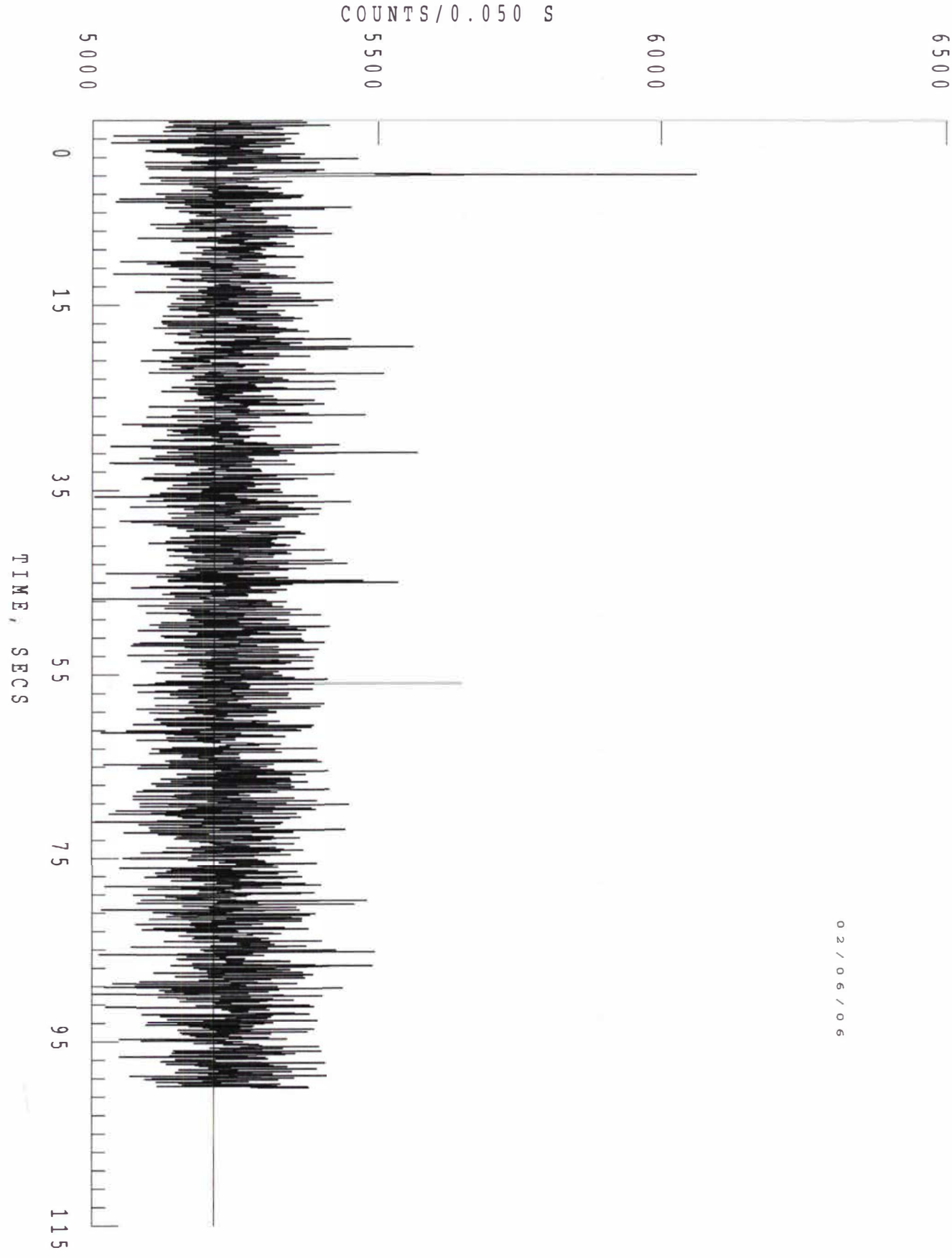
25- 150 keV



C

INTEGRAL 01/06/06 28539.961

100-10000 keV 07:55:39.961



Date: Jul 2 '10

D

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

□ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

2. AGILE Data

□ 1 second timing error corrected?

3. MESSENGER Data

□ Coarse or fine oscillator?

□ 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)

□ 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

□ Σ 3Δt'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?

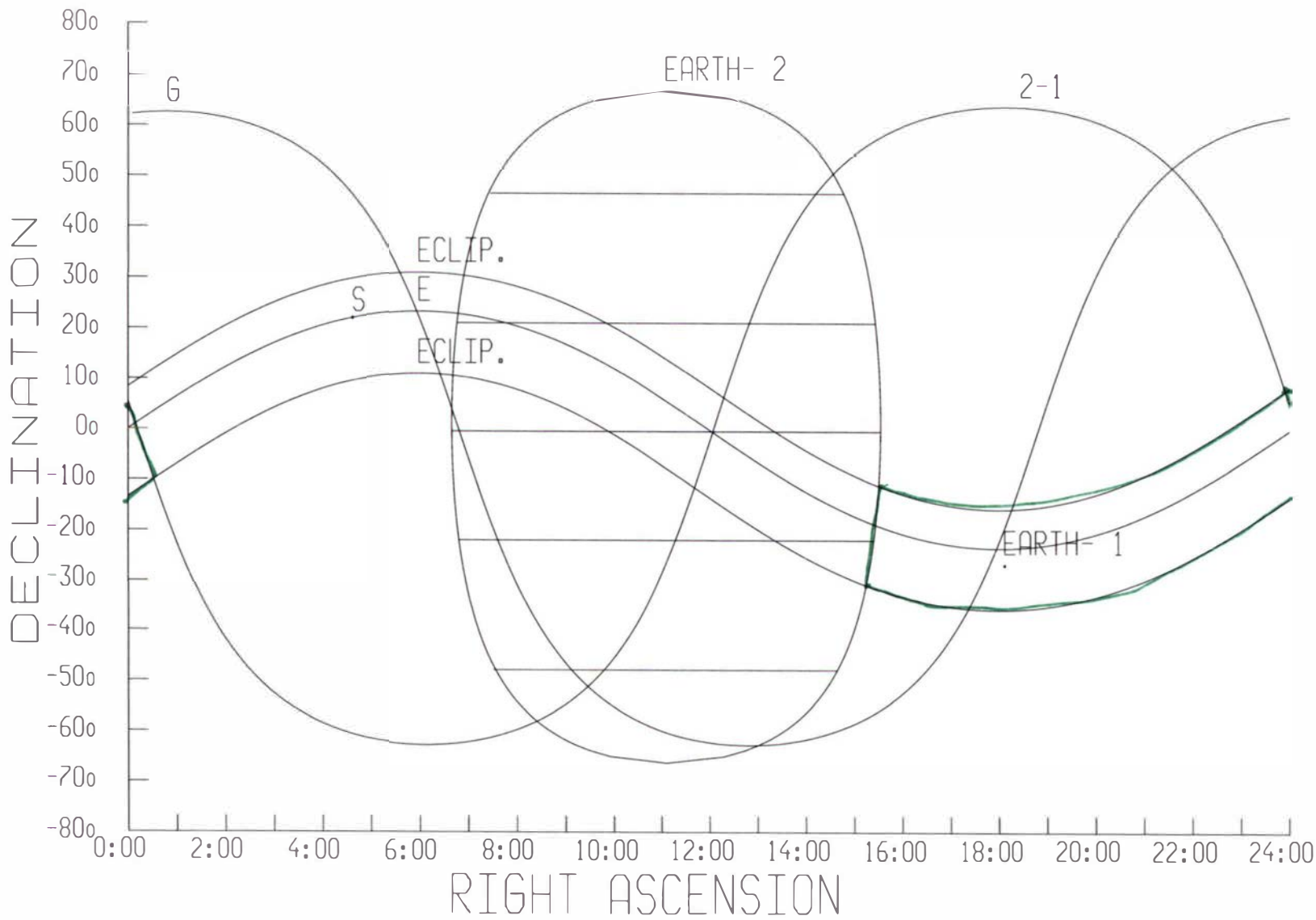
□ Updated ephemeris used for bursts prior to September 30, 2003?

☑ ACCESS and MBL4 databases updated, with identical times?

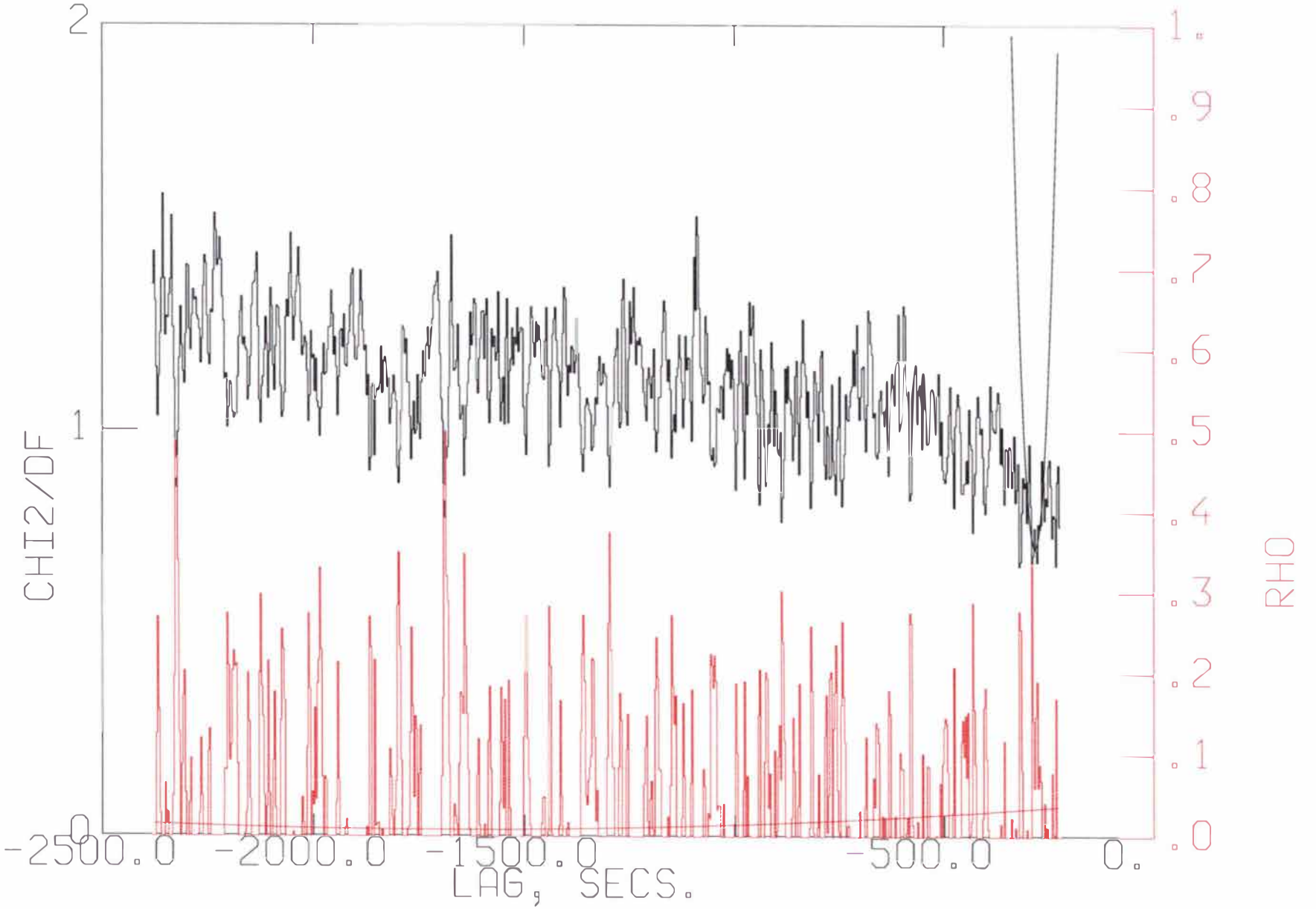
EVENT OF JUN 1, 2006 10:21

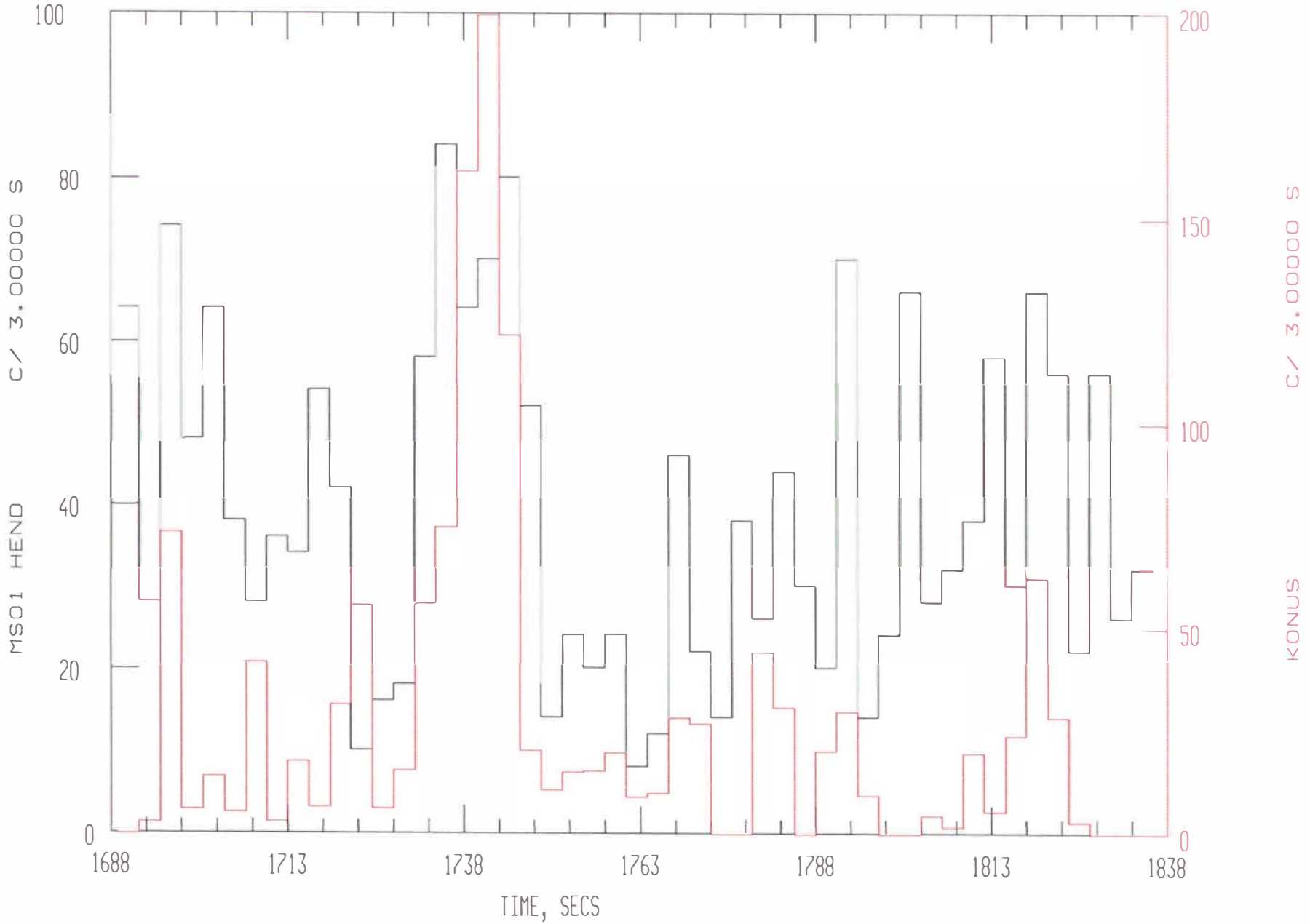
02/07/2010

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

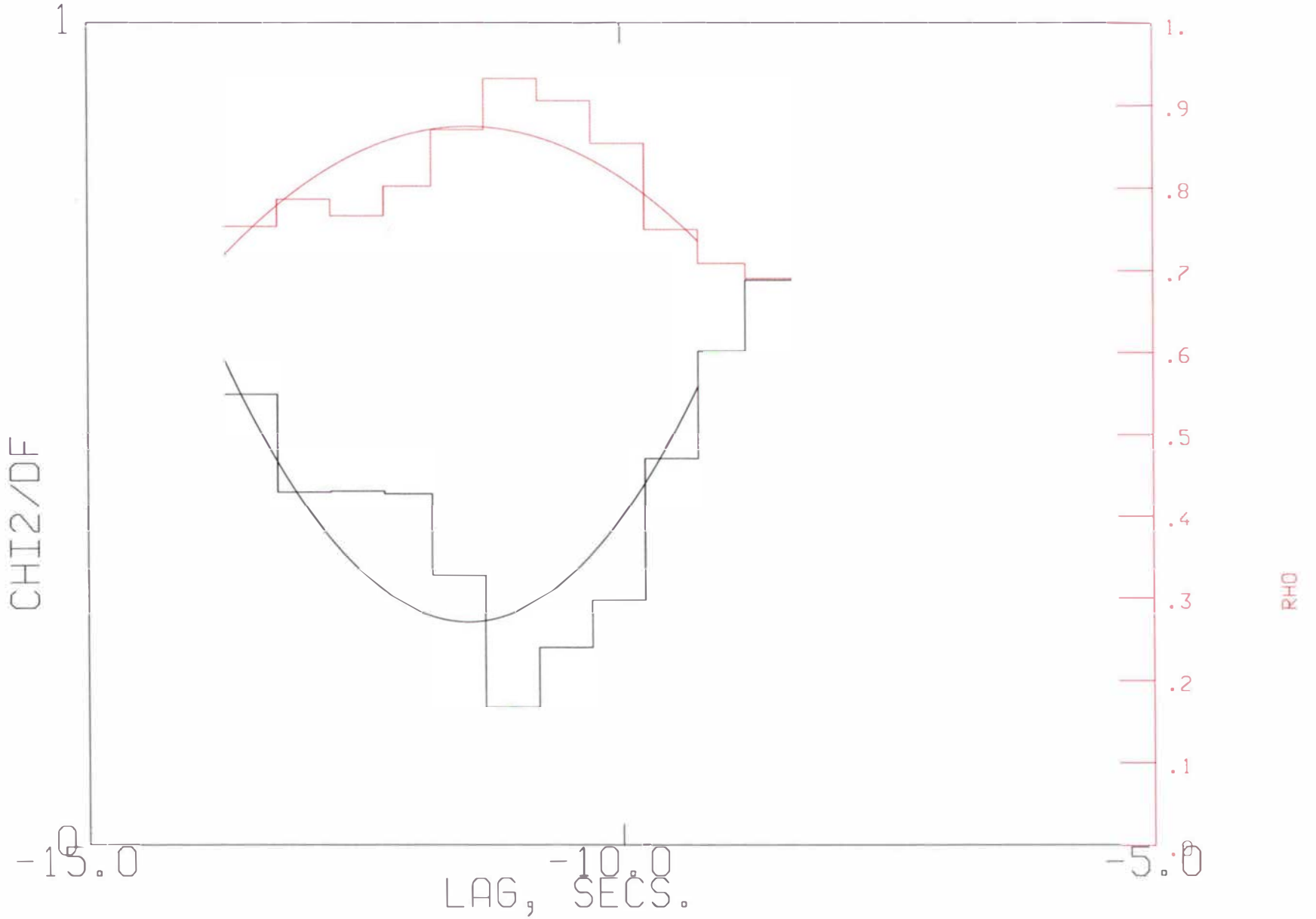


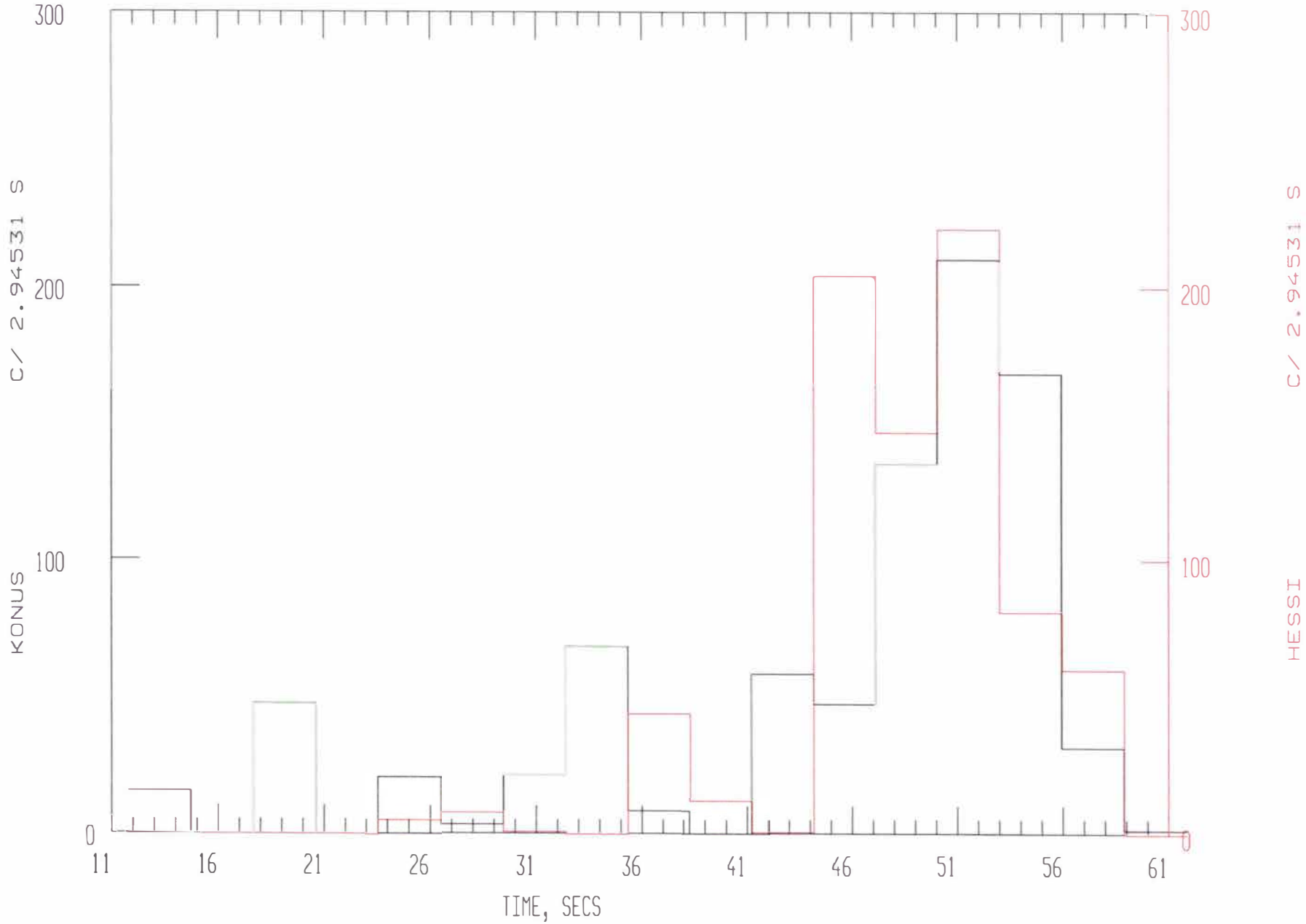
MS01 HEND -KONUS CORRELATION 01/06/06 36010.279

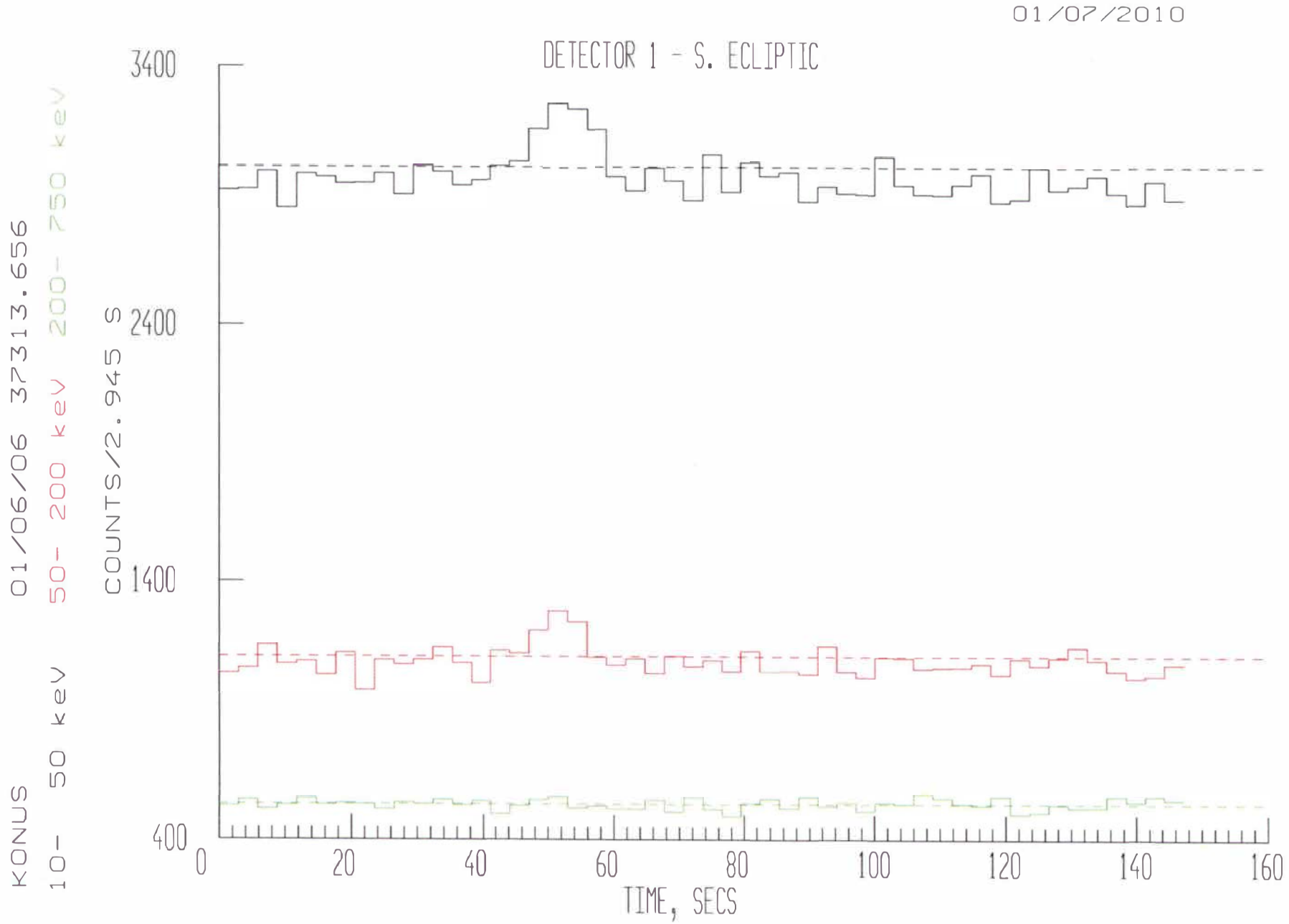



100
80
60
40
20
0
MS01 HEND C/ 3.00000 S
200
150
100
50
0
KONUS C/ 3.00000 S
1688
1713
1738
1763
1788
1813
1838
TIME, SECS

KONUS -HESSI CORRELATION 01/06/06 37313.656

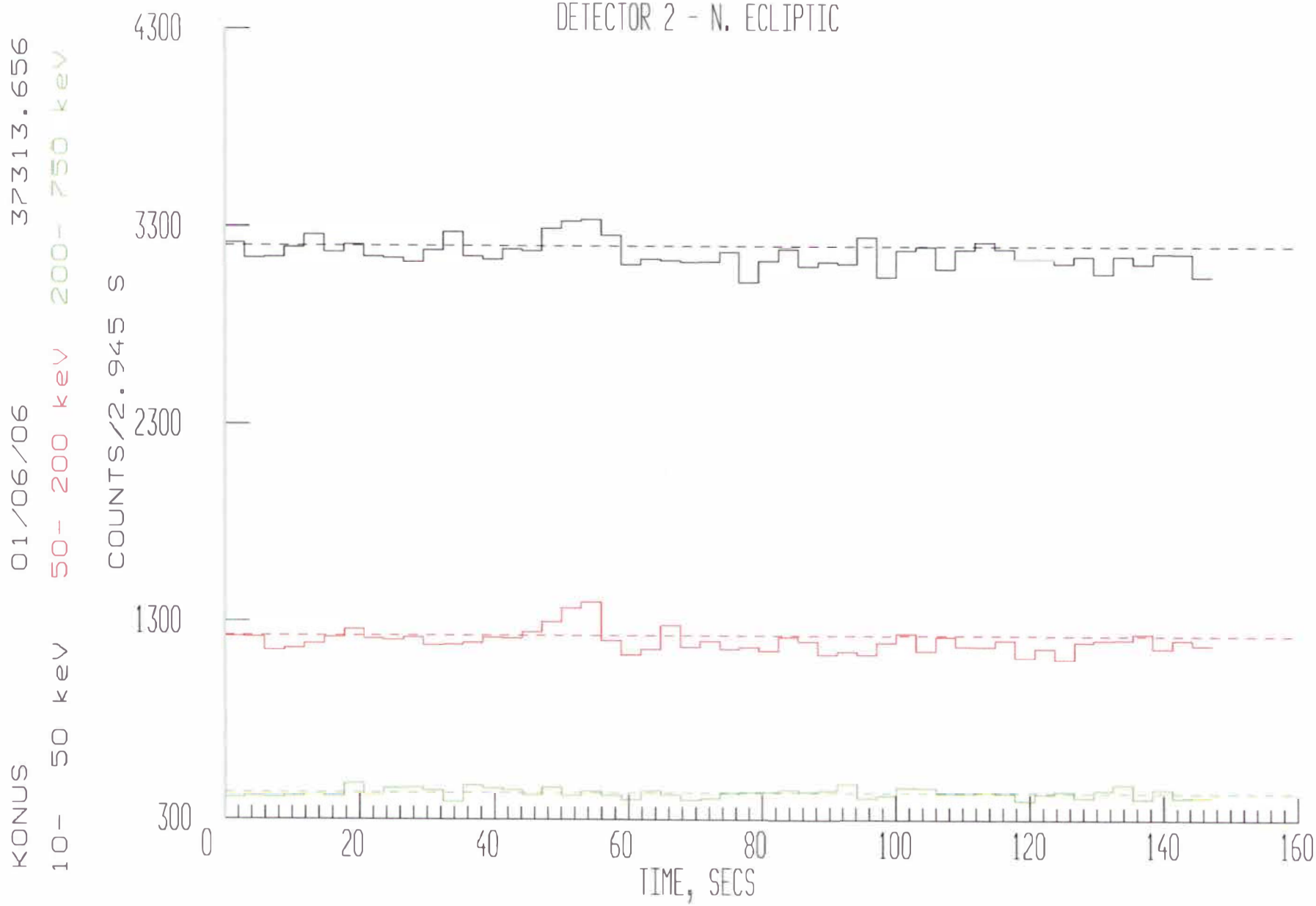



300
200
100
0
C/ 2.94531 S
KONUS
300
200
100
0
C/ 2.94531 S
HESSI
11
16
21
26
31
36
41
46
51
56
61
TIME, SECS


01/07/2010
DETECTOR 1 - S. ECLIPTIC
KONUS 01/06/06 327313.656
10- 50 keV 50- 200 keV 200- 750 keV
COUNTS/2.945 S
3400
2400
1400
400
0
20
40
60
80
100
120
140
160
TIME, SECS

A

01/07/2010

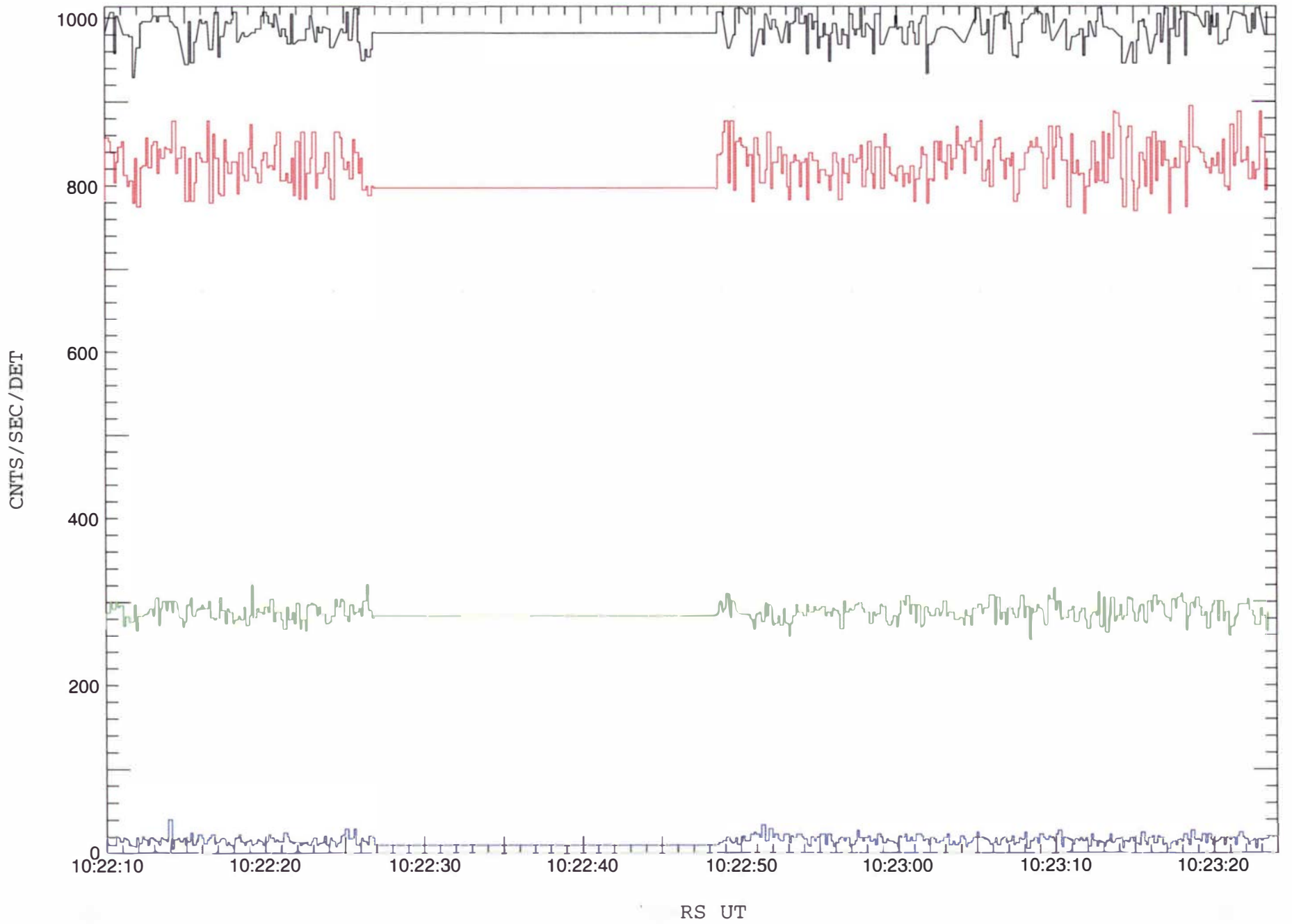

DETECTOR 2 - N. ECLIPTIC
KONUS
10- 50 keV
50- 200 keV
200- 750 keV
01/06/06
37313.656
COUNTS/2.945 S
4300
3300
2300
1300
300
0
20
40
60
80
100
120
140
160
TIME, SECS

A

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS_RI_20060601_37362)

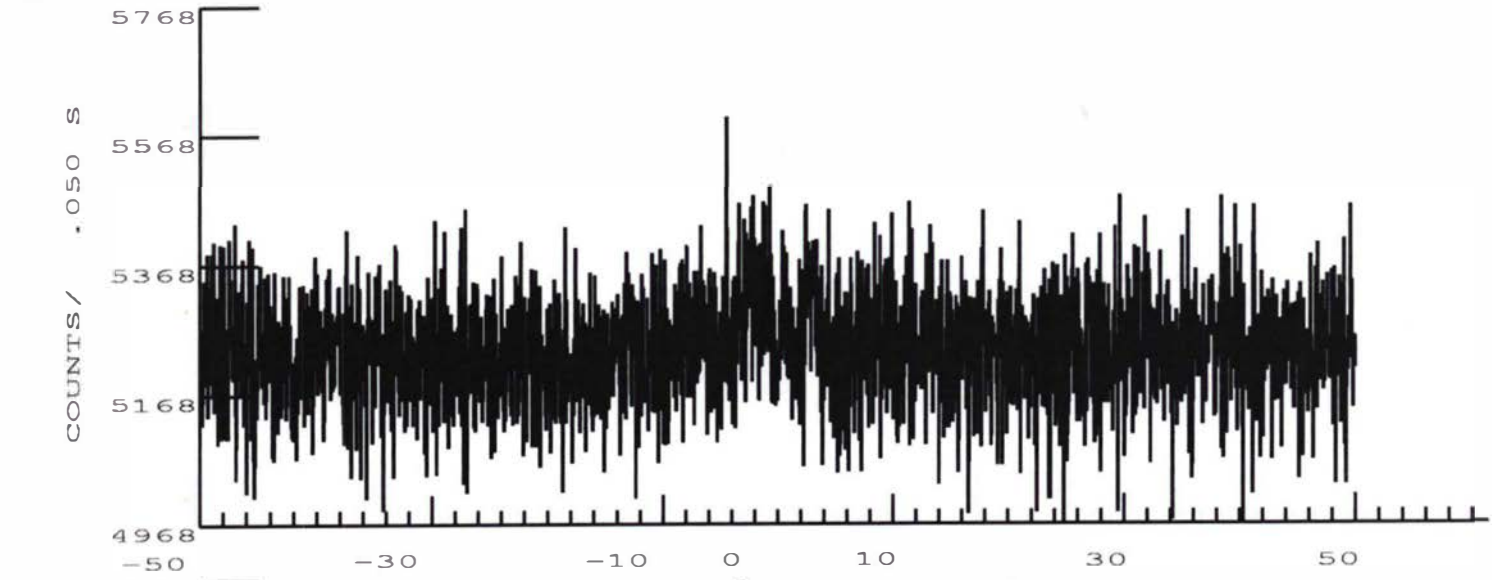
BEG TIME: 01/06/06 DOY 152 Julian 2453888.93208 UT = 10.370 10:22:12 (37332.000 secs) [sct = 0019 d2ce 0571 2f26]
END TIME: 01/06/06 DOY 152 Julian 2453888.93292 UT = 10.390 10:23:24 (37404.000 secs) [sct = 0019 d2ce 09bb d163]

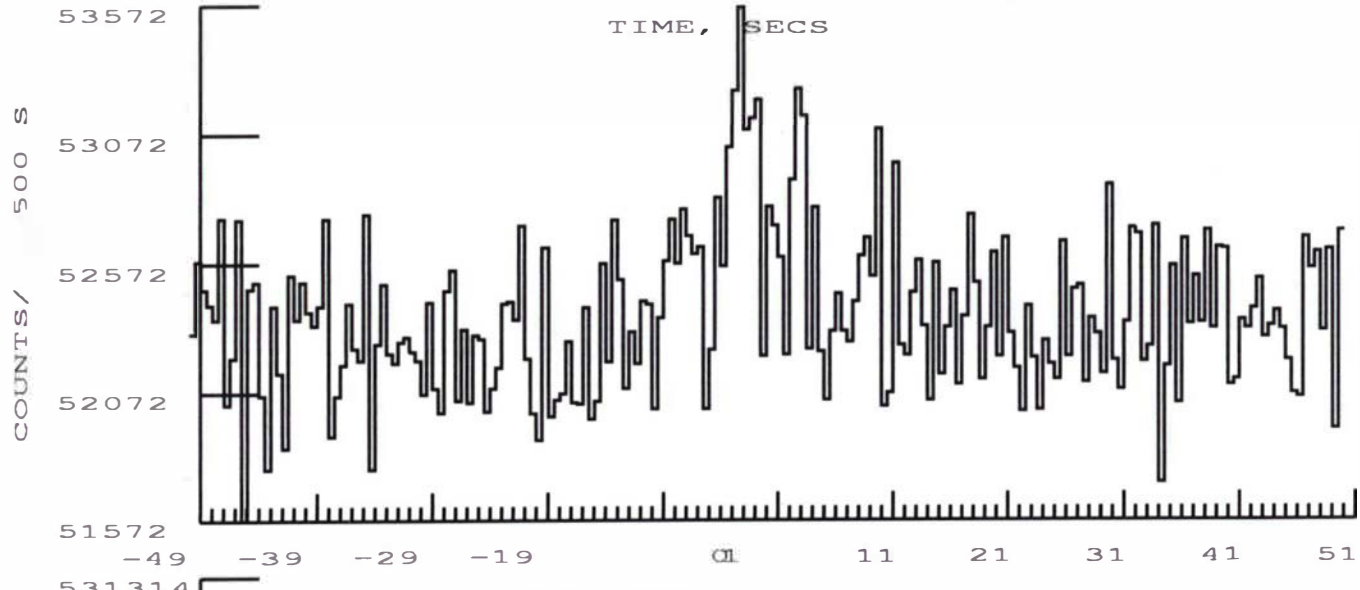
Chan 1:[E1=19 E2=103] Channel 1 + 600
Chan 2:[E3=18 E4=77] Channel 2 + 400
Chan 3:[E5=20 E6=509] Channel 3 + 200
Chan 4:[E6=509 ->] Channel 4 + 0

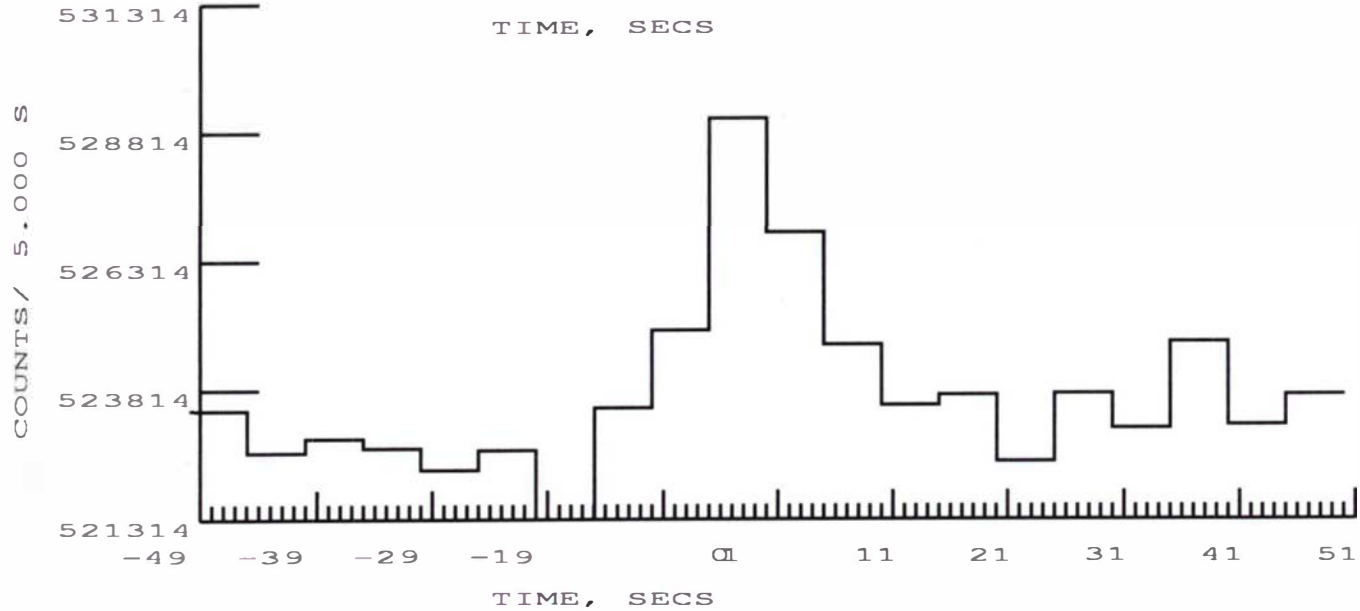


D

INTEGRAL 01/06/06 37362.000 10:22:42.0 11/07/14

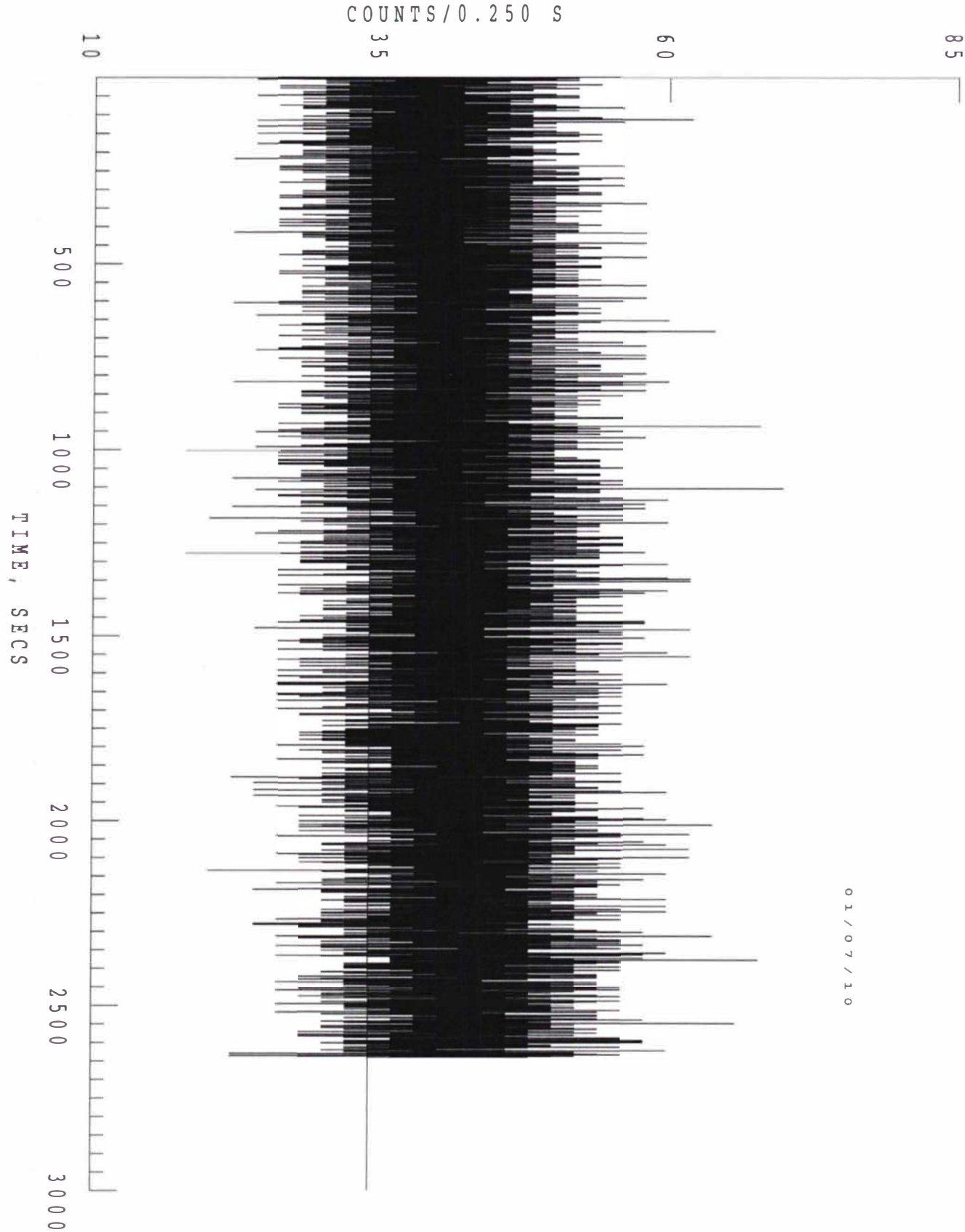




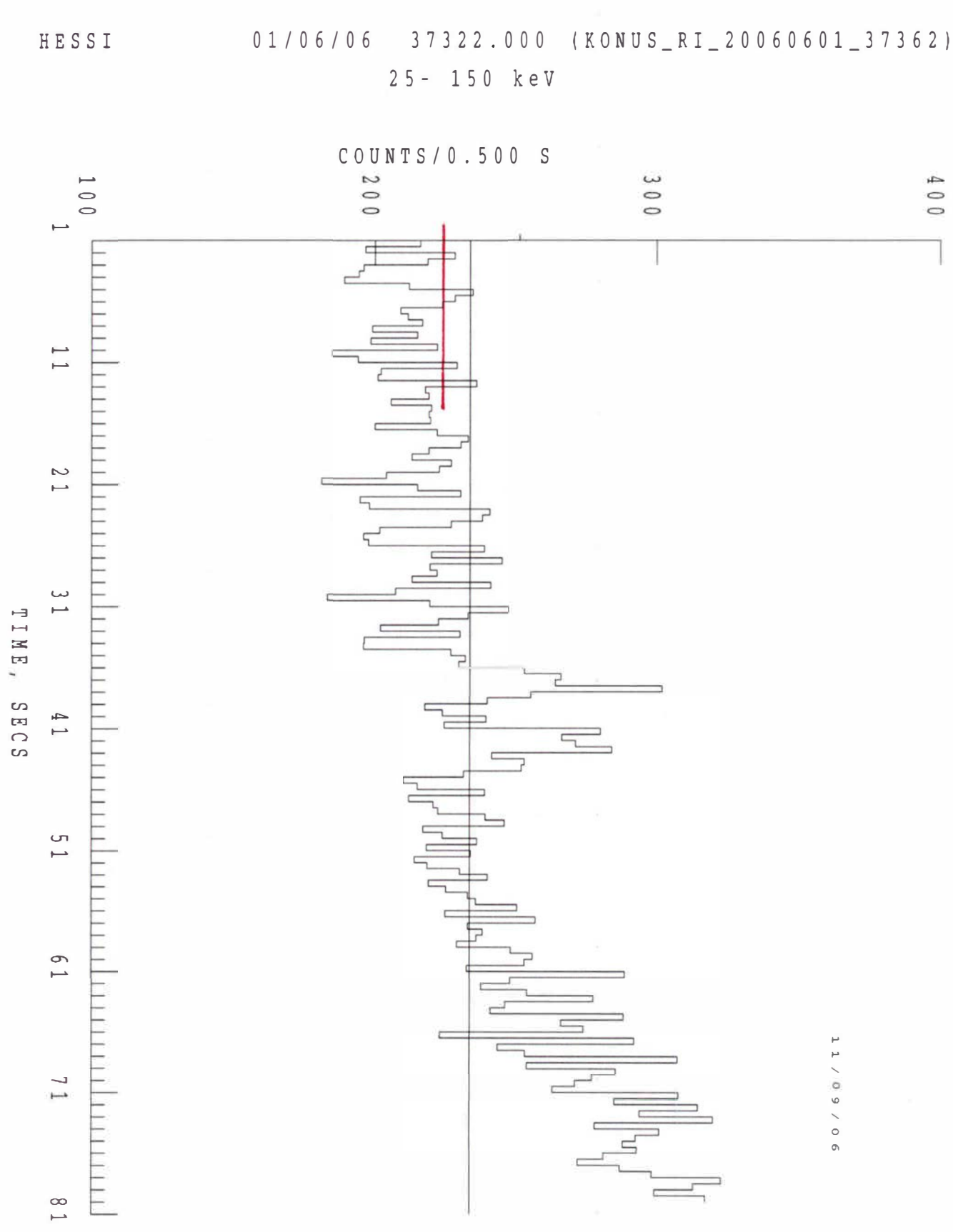


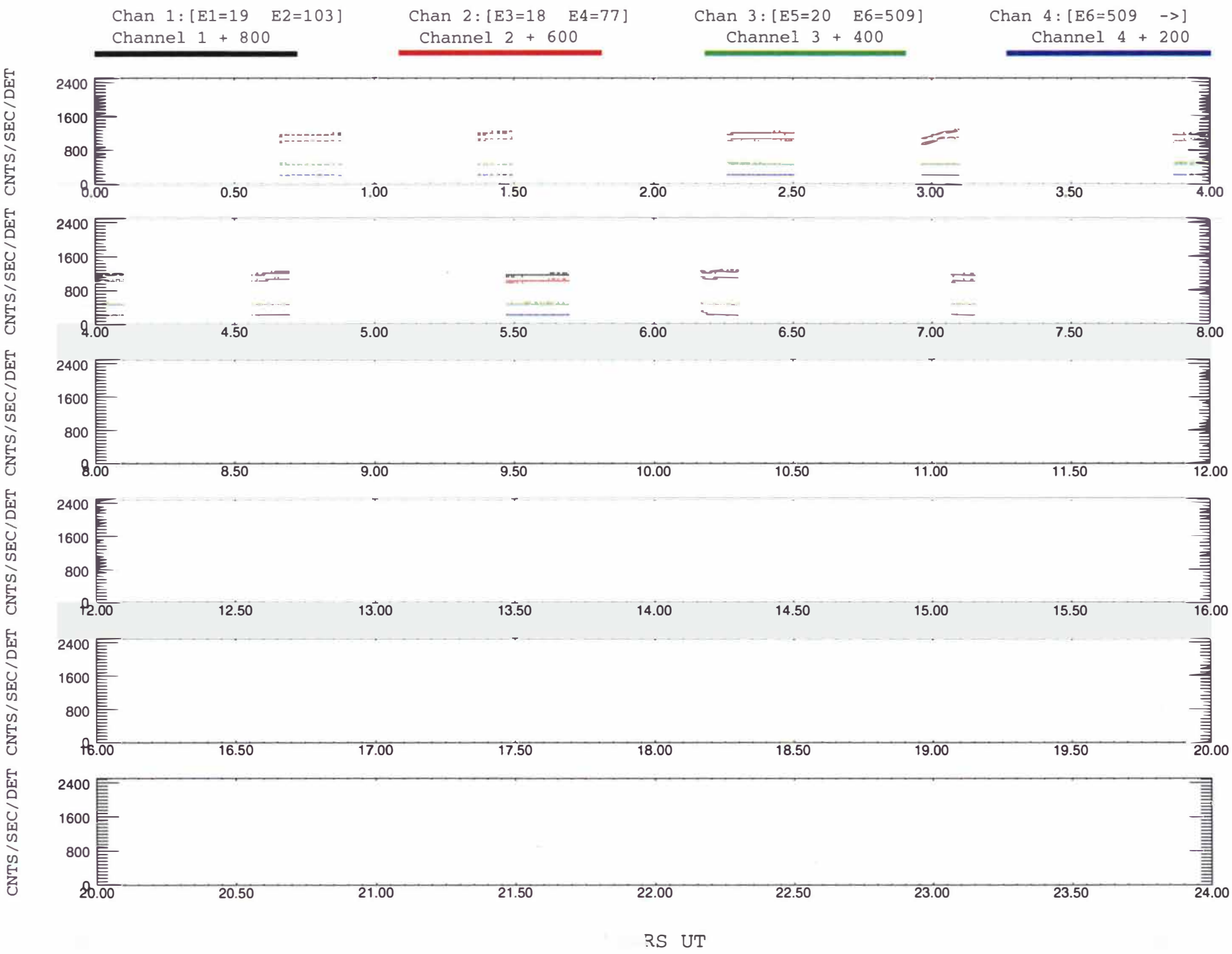
MS01 01/06/06 36010.279

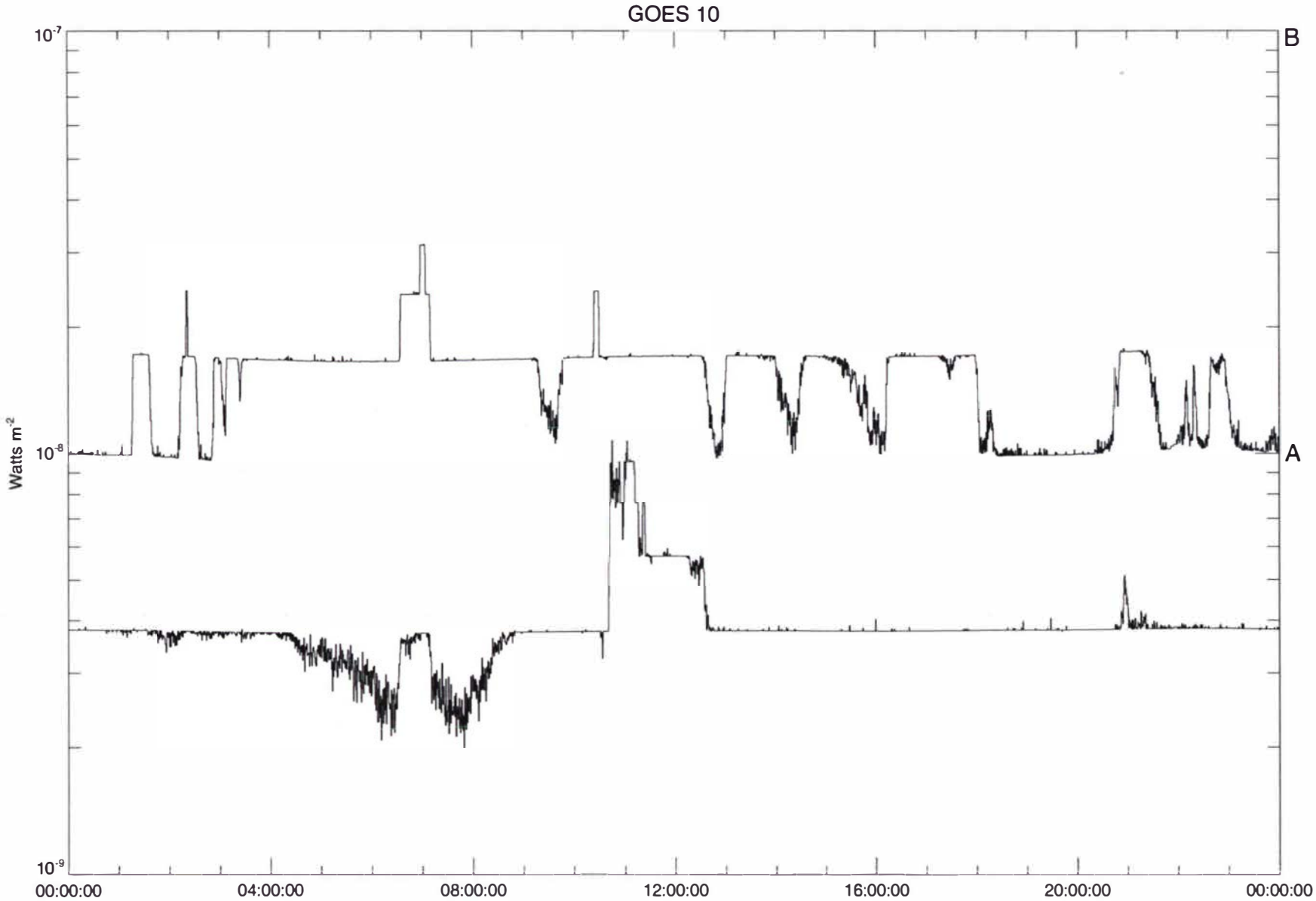
50- 3000 keV



D


HESSI 01/06/06 37322.000 (KONUS_RI_20060601_37362)
25- 150 keV
COUNTS/0.500 S
100
200
300
400
1
11
21
31
41
51
61
71
81
TIME, SECS
11/09/06


FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED
01/06/06 DOY 152 Julian 2453888.50000 [est. sct = 0019 d2c5 5447 95e3]
Chan 1:[E1=19 E2=103]
Channel 1 + 800
Chan 2:[E3=18 E4=77]
Channel 2 + 600
Chan 3:[E5=20 E6=509]
Channel 3 + 400
Chan 4:[E6=509 ->]
Channel 4 + 200
CNTS/SEC/DET
2400
1600
800
0
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
10.50
11.00
11.50
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00
16.50
17.00
17.50
18.00
18.50
19.00
19.50
20.00
20.50
21.00
21.50
22.00
22.50
23.00
23.50
24.00
RS UT



Data Start: 06/06/01, 0000:00 Plot created: 06/06/04, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

Date: Jun 28 '10

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

☐ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

2. AGILE Data

☐ 1 second timing error corrected?

3. MESSENGER Data

☐ Coarse or fine oscillator?

☐ 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)

☐ 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

☐ Σ 3Δt'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?

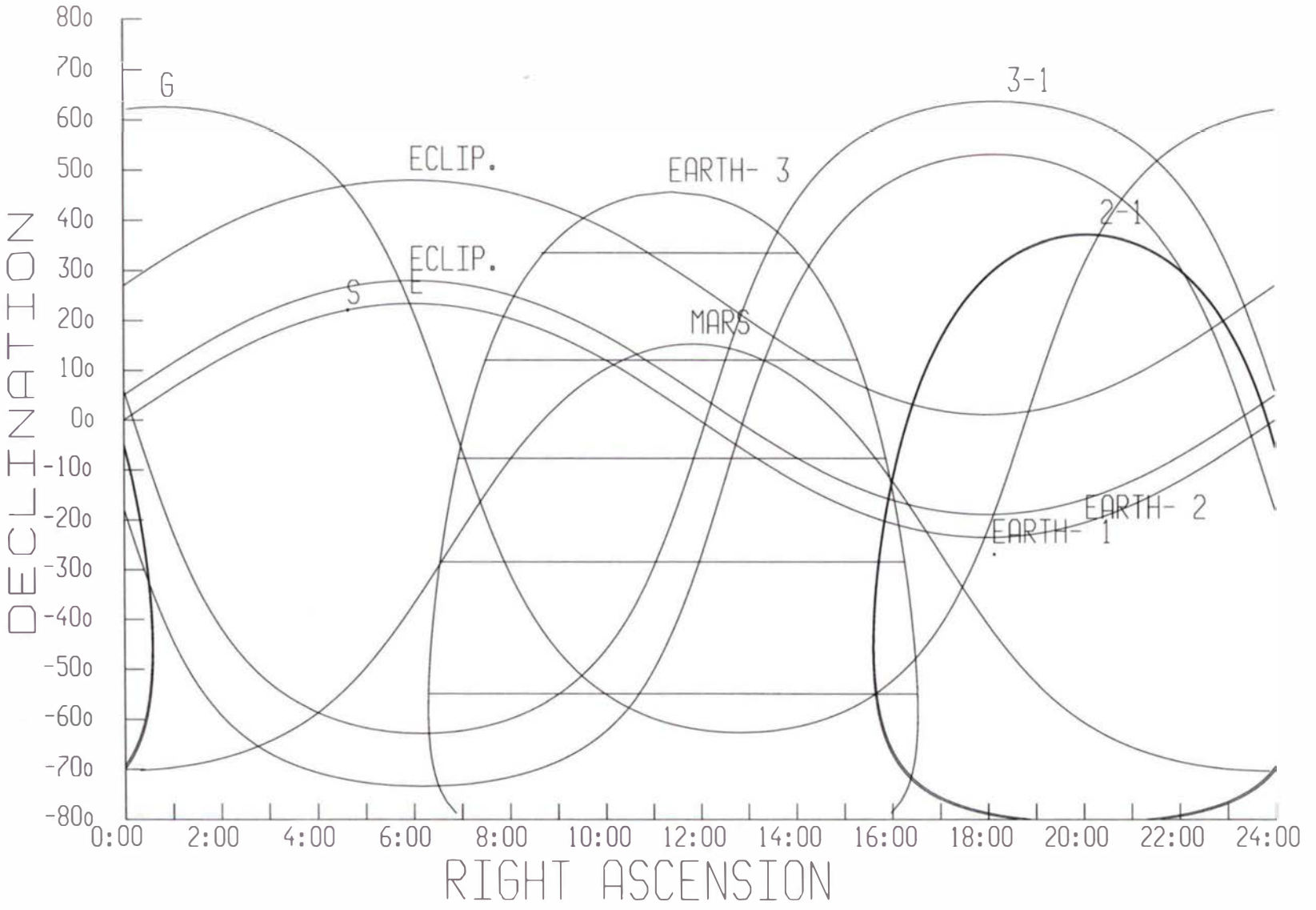
☐ Updated ephemeris used for bursts prior to September 30, 2003?

☑ ACCESS and MBL4 databases updated, with identical times?

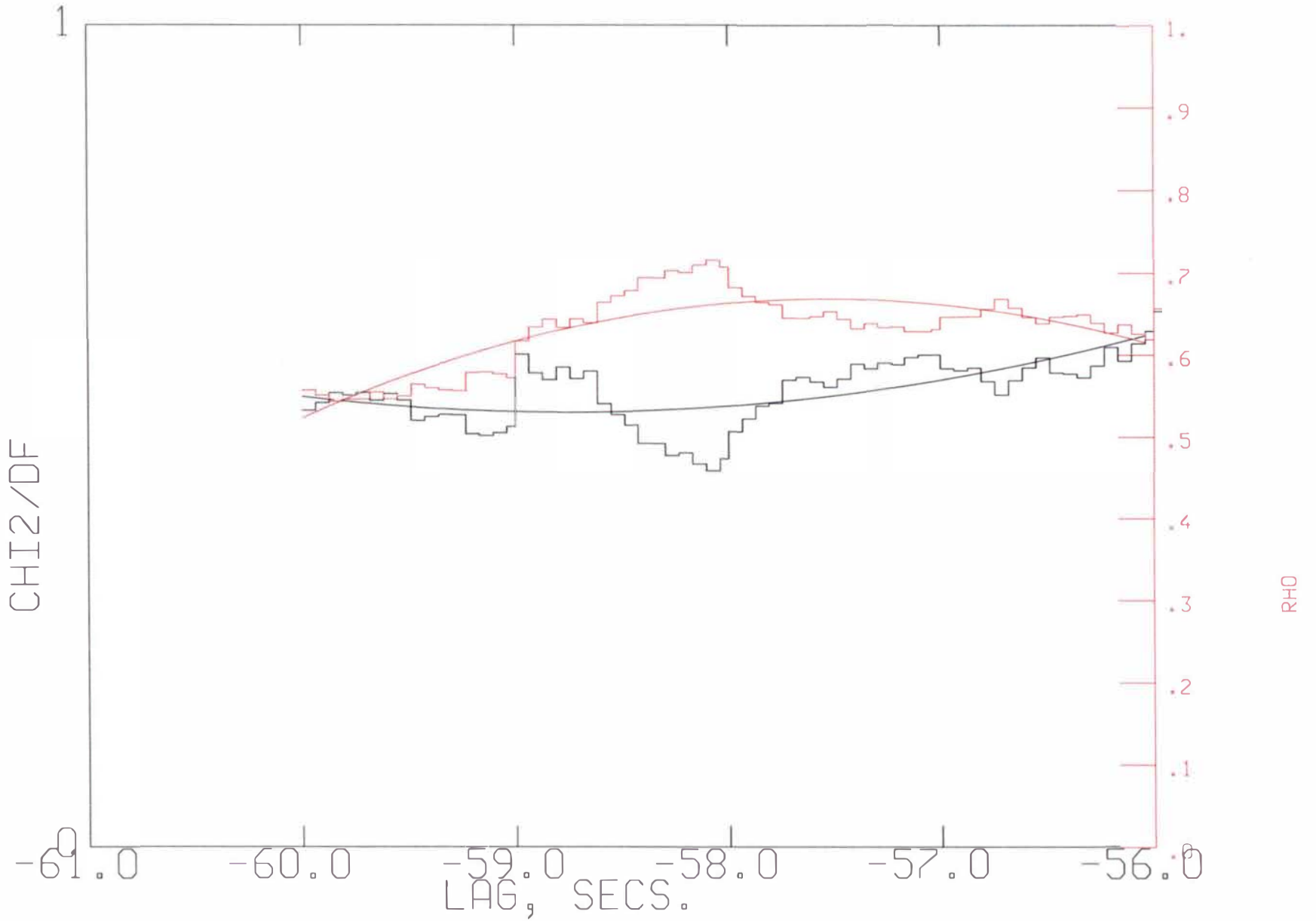
EVENT OF JUN 2, 2006 1:48

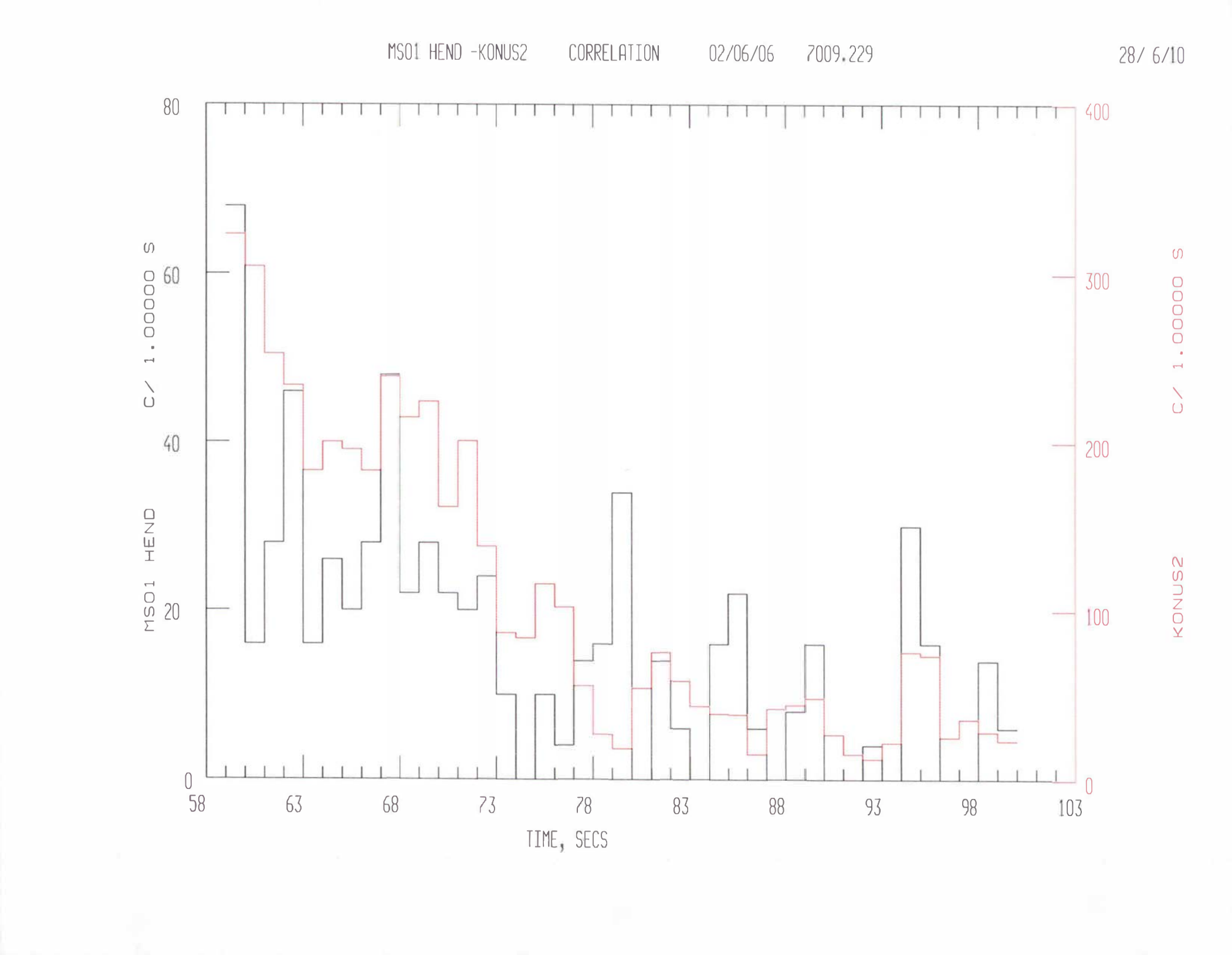
28/06/2010

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 SWIFT

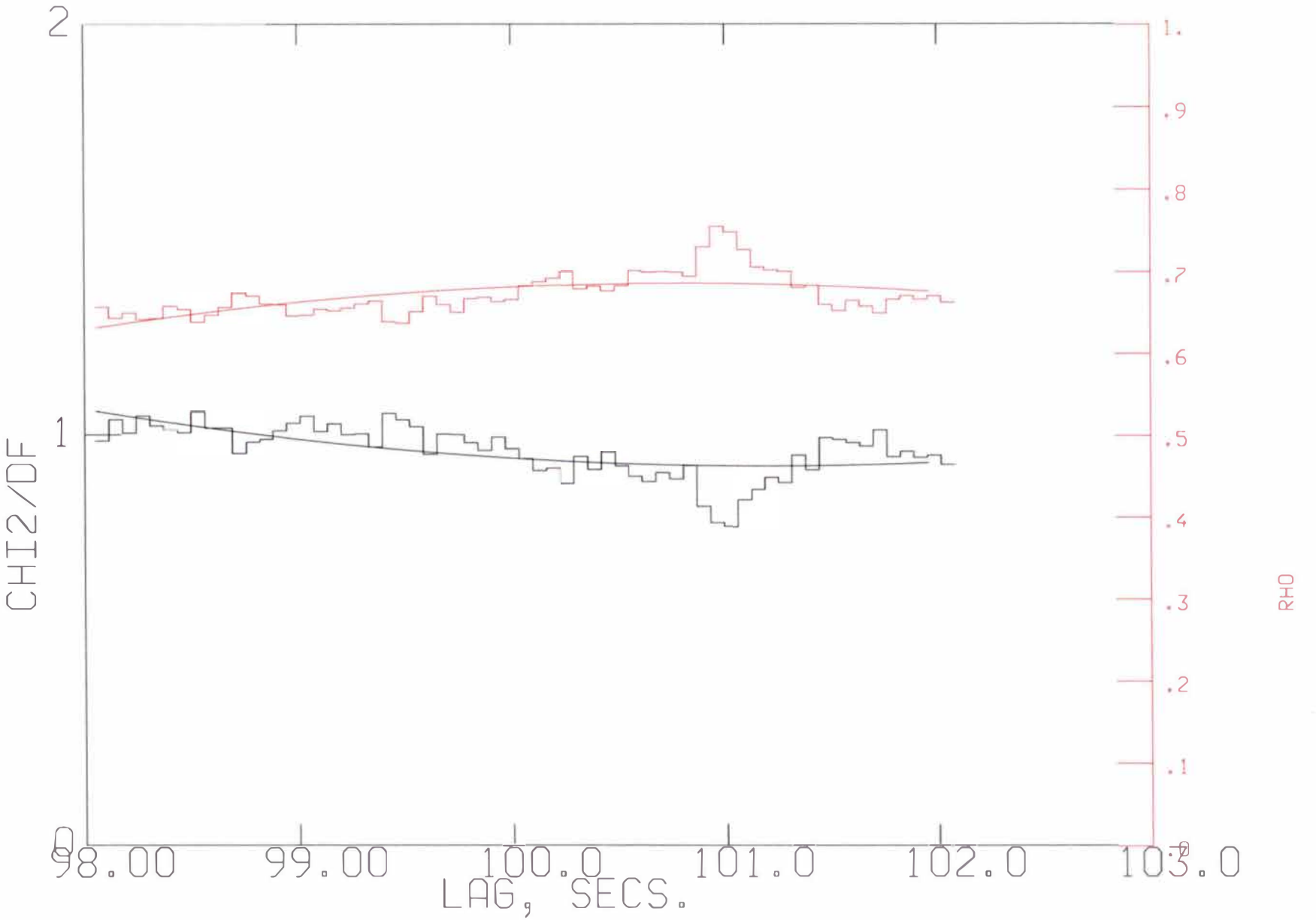


MSO1 HEND -KONUS2 CORRELATION 02/06/06 7009.229




MS01 HEND -KONUS2 CORRELATION 02/06/06 7009.229 28/ 6/10
80
60
40
20
0
C/ 1.00000 S
MS01 HEND
400
300
200
100
0
C/ 1.00000 S
KONUS2
58
63
68
73
78
83
88
93
98
103
TIME, SECS

KONUS2 -SWIFT-BAT CORRELATION 02/06/06 6511.421

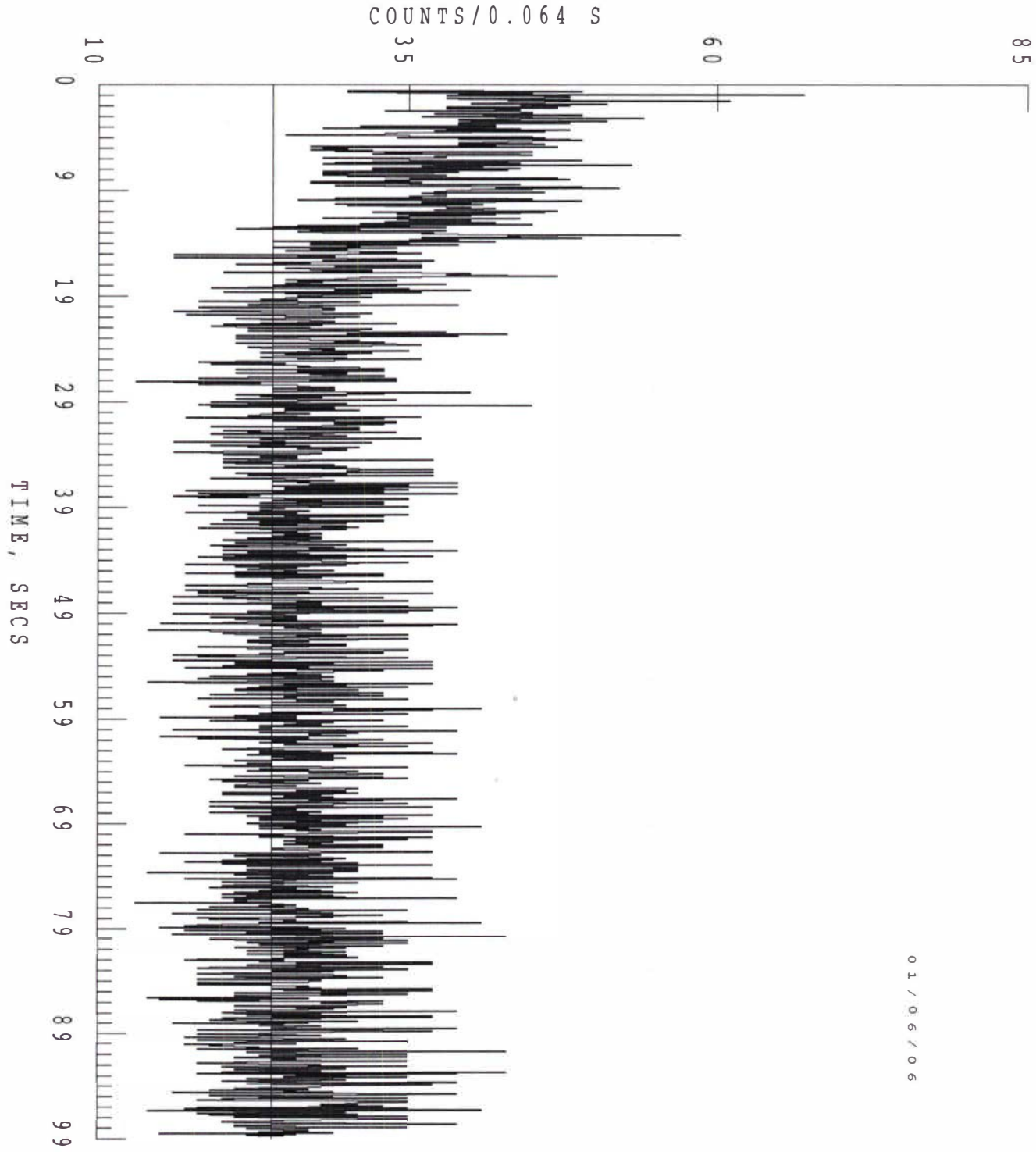


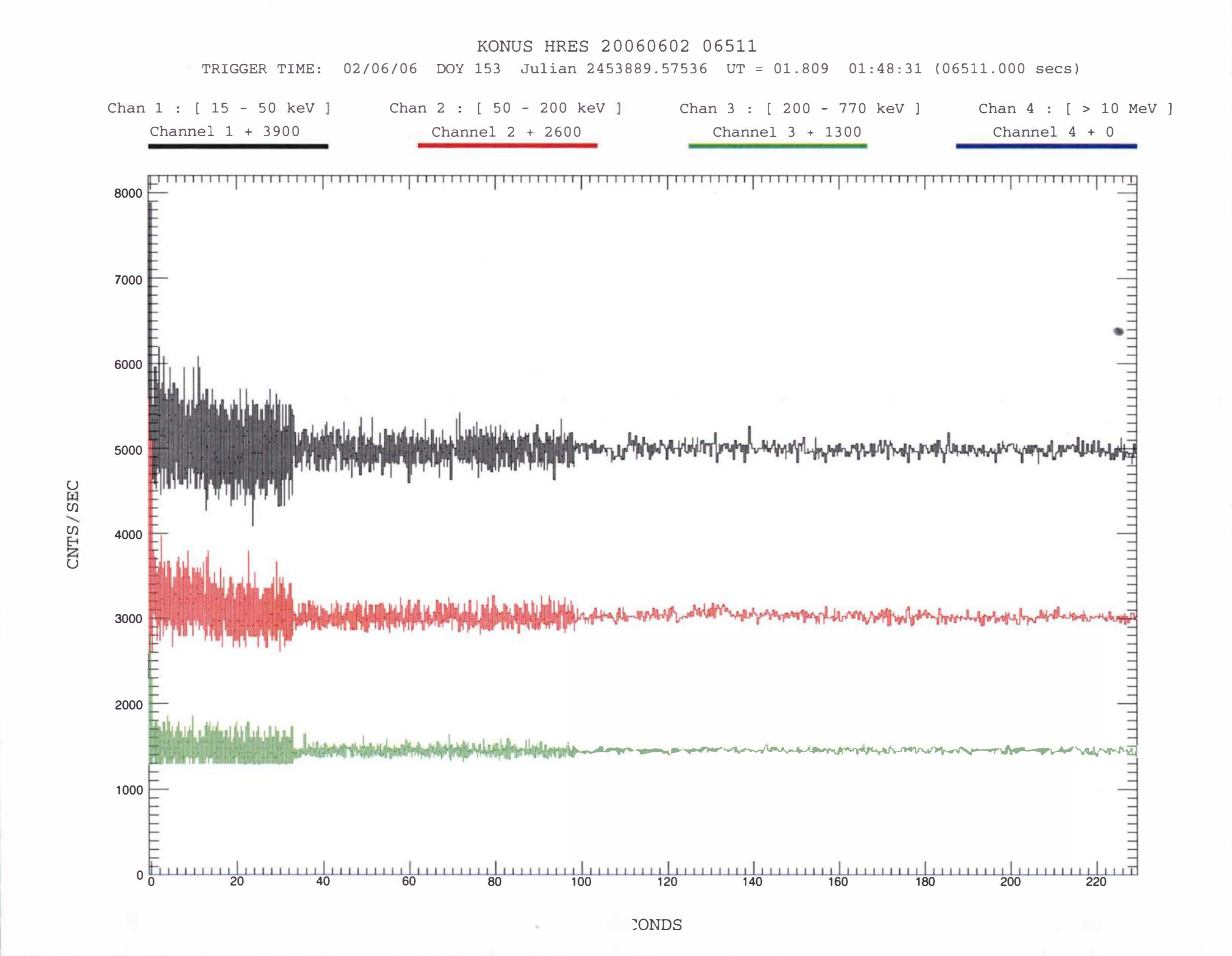
KONUS2 -SWIFT-BAT CORRELATION 02/06/06 6511.421

28/ 6/10

KONUS2 02/06/06 6511.421

50- 200 keV 01:48:31



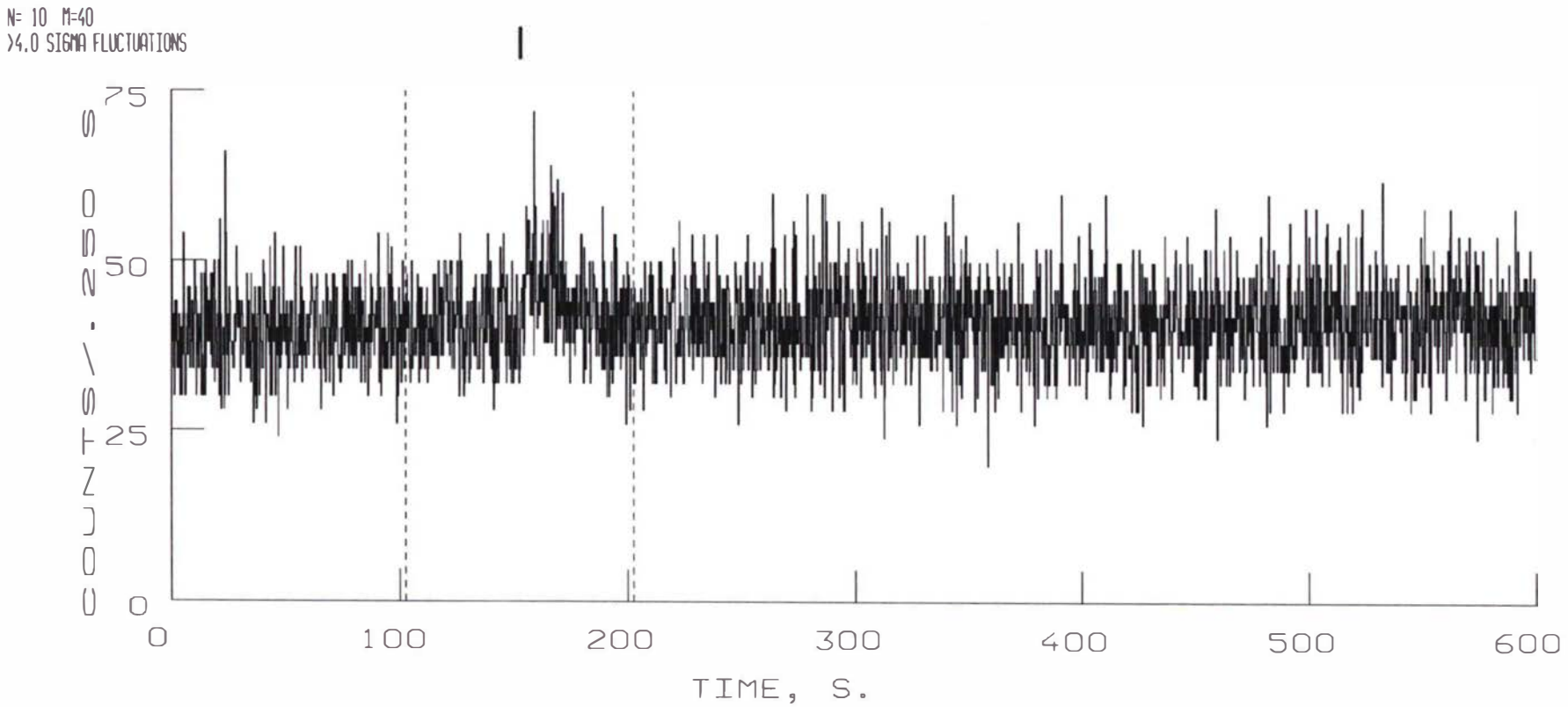

KONUS HRES 20060602 06511
TRIGGER TIME: 02/06/06 DOY 153 Julian 2453889.57536 UT = 01.809 01:48:31 (06511.000 secs)
Chan 1 : [15 - 50 keV]
Channel 1 + 3900
Chan 2 : [50 - 200 keV]
Channel 2 + 2600
Chan 3 : [200 - 770 keV]
Channel 3 + 1300
Chan 4 : [> 10 MeV]
Channel 4 + 0
CNTS / SEC
8000
7000
6000
5000
4000
3000
2000
1000
0
0
20
40
60
80
100
120
140
160
180
200
220
CONDS

MS01 HEND

28/06/2010

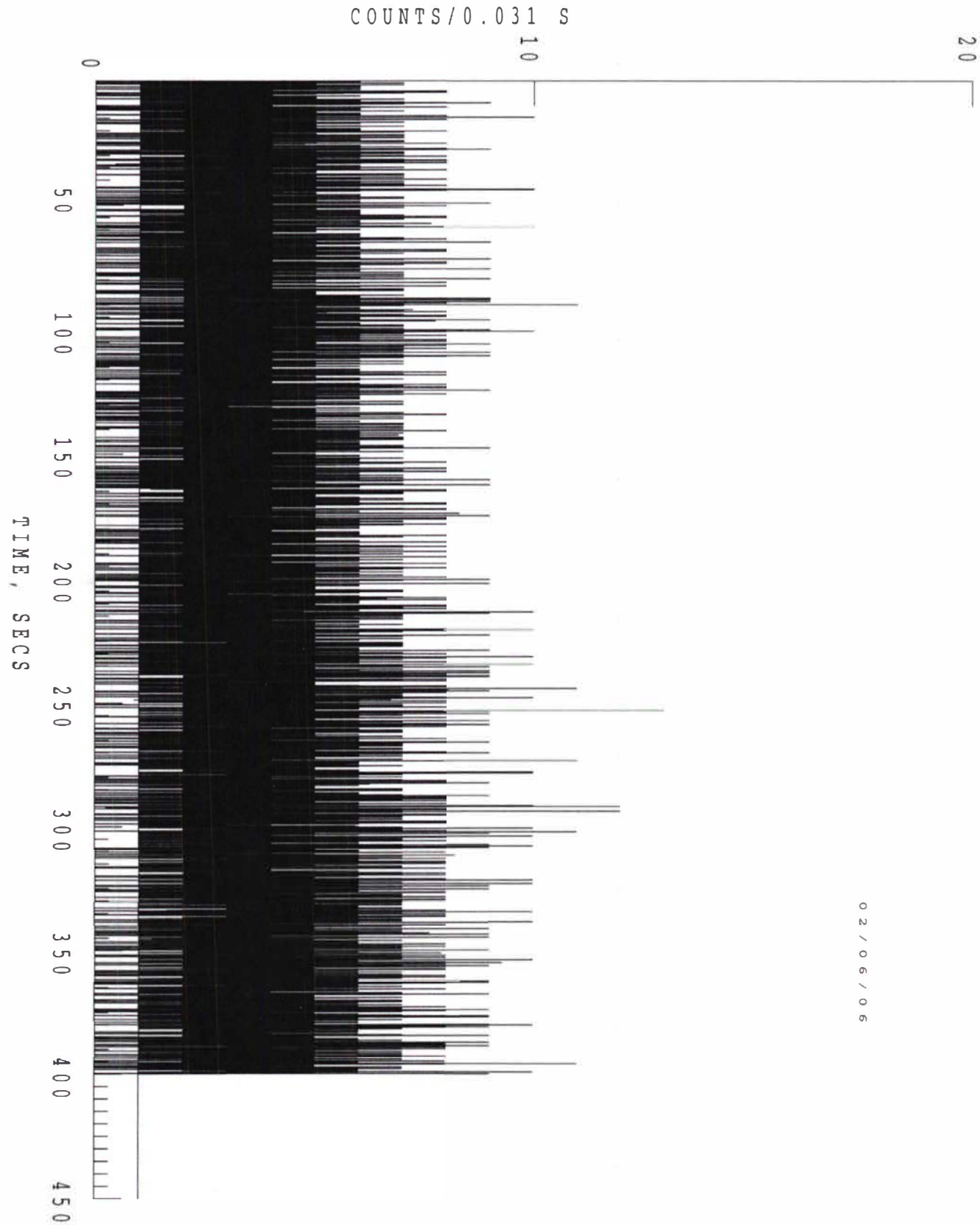
02/06/2006 6909.229 s

50-3000 keV

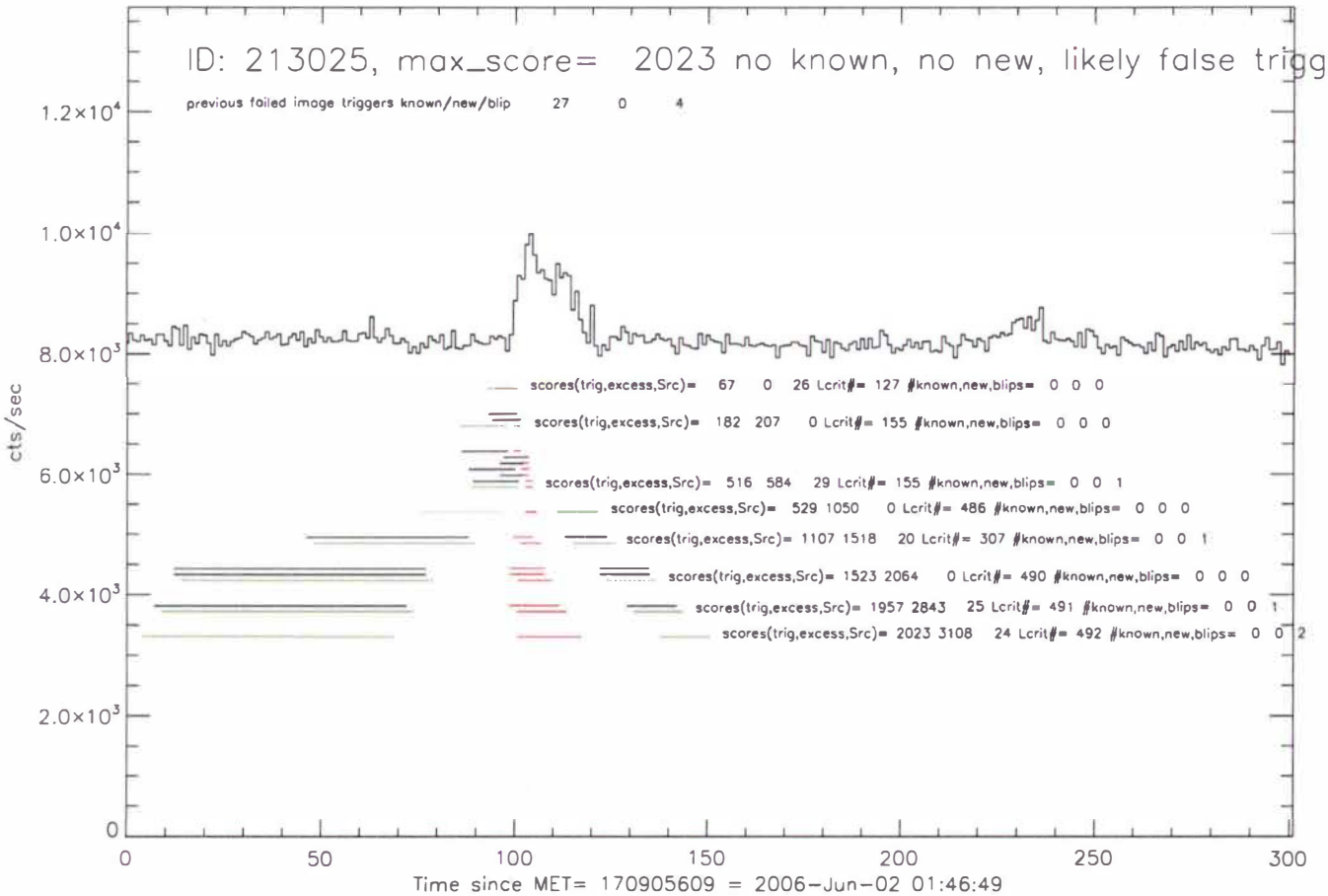


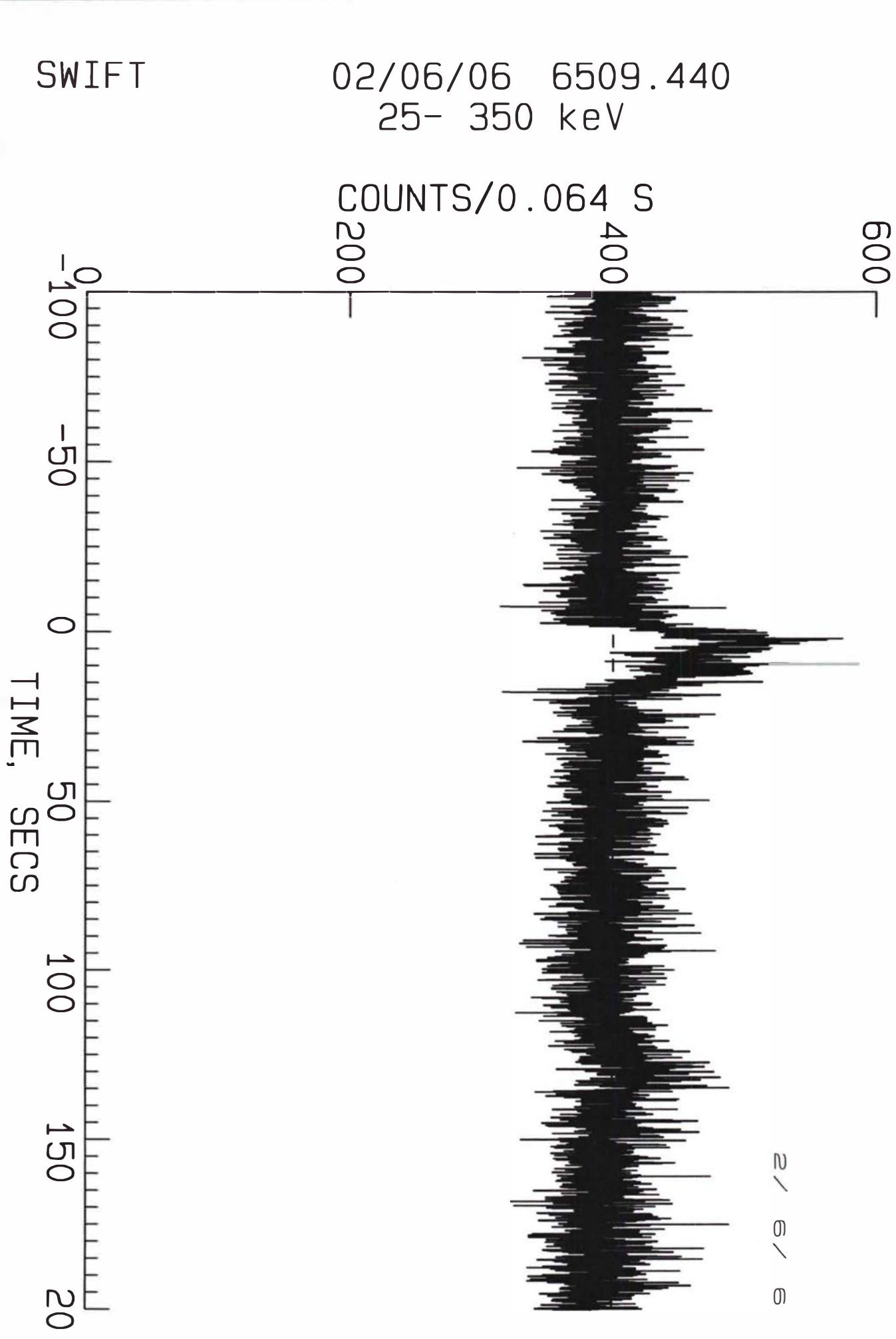
HESSI 02/06/06 6311.000 (KONUS2_20060602_06511)

25- 150 keV



0650gs


ID: 213025, max_score= 2023 no known, no new, likely false trigger
previous failed image triggers known/new/blip 27 0 4
scores(trig,excess,Src)= 67 0 26 Lcrit#= 127 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 182 207 0 Lcrit#= 155 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 516 584 29 Lcrit#= 155 #known,new,blips= 0 0 1
scores(trig,excess,Src)= 529 1050 0 Lcrit#= 486 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 1107 1518 20 Lcrit#= 307 #known,new,blips= 0 0 1
scores(trig,excess,Src)= 1523 2064 0 Lcrit#= 490 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 1957 2843 25 Lcrit#= 491 #known,new,blips= 0 0 1
scores(trig,excess,Src)= 2023 3108 24 Lcrit#= 492 #known,new,blips= 0 0 2
cts/sec
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
0
50
100
150
200
250
300
Time since MET= 170905609 = 2006-Jun-02 01:46:49


SWIFT
02/06/06 6509.440
25- 350 keV
COUNTS/0.064 S
0
200
400
600
-100
-50
0
50
100
150
200
TIME, SECS
2/6/6

From yamaoka@phys.aoyama.ac.jp Fri Jun 2 11:23:43 2006
X-ASG-Debug-ID: 1149272642-389b00350000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: scmailgw2.scop.aoyama.ac.jp[133.2.251.195]
X-Barracuda-Start-Time: 1149272642
To: val@mail.ioffe.ru
Cc: khurley@ssl.berkeley.edu, jayc@milkyway.gsfc.nasa.gov,
roland@space.mit.edu, golen@mail.ioffe.ru,
krimm@milkyway.gsfc.nasa.gov, ohno@hirax7.hepl.hiroshima-u.ac.jp
Cc: yamaoka@phys.aoyama.ac.jp, news-hxd-ipn@amalthea.phys.s.u-tokyo.ac.jp
X-ASG-Orig-Subj: Re: long GRB detected by Konus-Wind today = GRB060602
Subject: Re: long GRB detected by Konus-Wind today = GRB060602
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
Date: Sat, 03 Jun 2006 03:22:27 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
X-Dispatcher: imput version 20000228(IM140)
X-Barracuda-Bayes: INNOCENT GLOBAL 0.0609 1.0000 -1.6319
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-Barracuda-Spam-Report: Code version 3.02, rules version 3.0.13977
Rule breakdown below pts rule name description
---- ---------------------- --

Dear Valentin,

We cannot see any clear signals around this time.

Best regards,
Kazu
on behalf of the WAM team

From: Val <val@mail.ioffe.ru>
Subject: long GRB detected by Konus-Wind today = GRB060602
Date: Fri, 02 Jun 2006 19:35:51 +0400
Message-ID: <44805AD7.5090204@mail.ioffe.ru>

> Dear colleagues,
>
> A long GRB triggered Konus-Wind at 2006-06-02 T0=6511.421 s UT
> (01:48:31.421).
> The burst shows two pulses. The first pulse has a duration of ~20 s,
> the second weaker pulse starts at T-T0 ~125 sec and has a duration
> of ~9 sec. There is no apparent emission between these pulses.
> The source of the burst is in the north ecliptic
> hemisphere.
>
> Any other detections?
>
> Best wishes,
>
> Valentin
>
> --

Valentin Pal'shin
>
> Ioffe Physico-Technical Institute
> Laboratory for Experimental Astrophysics
> 26 Polytekhnicheskaya, St Petersburg 194021,

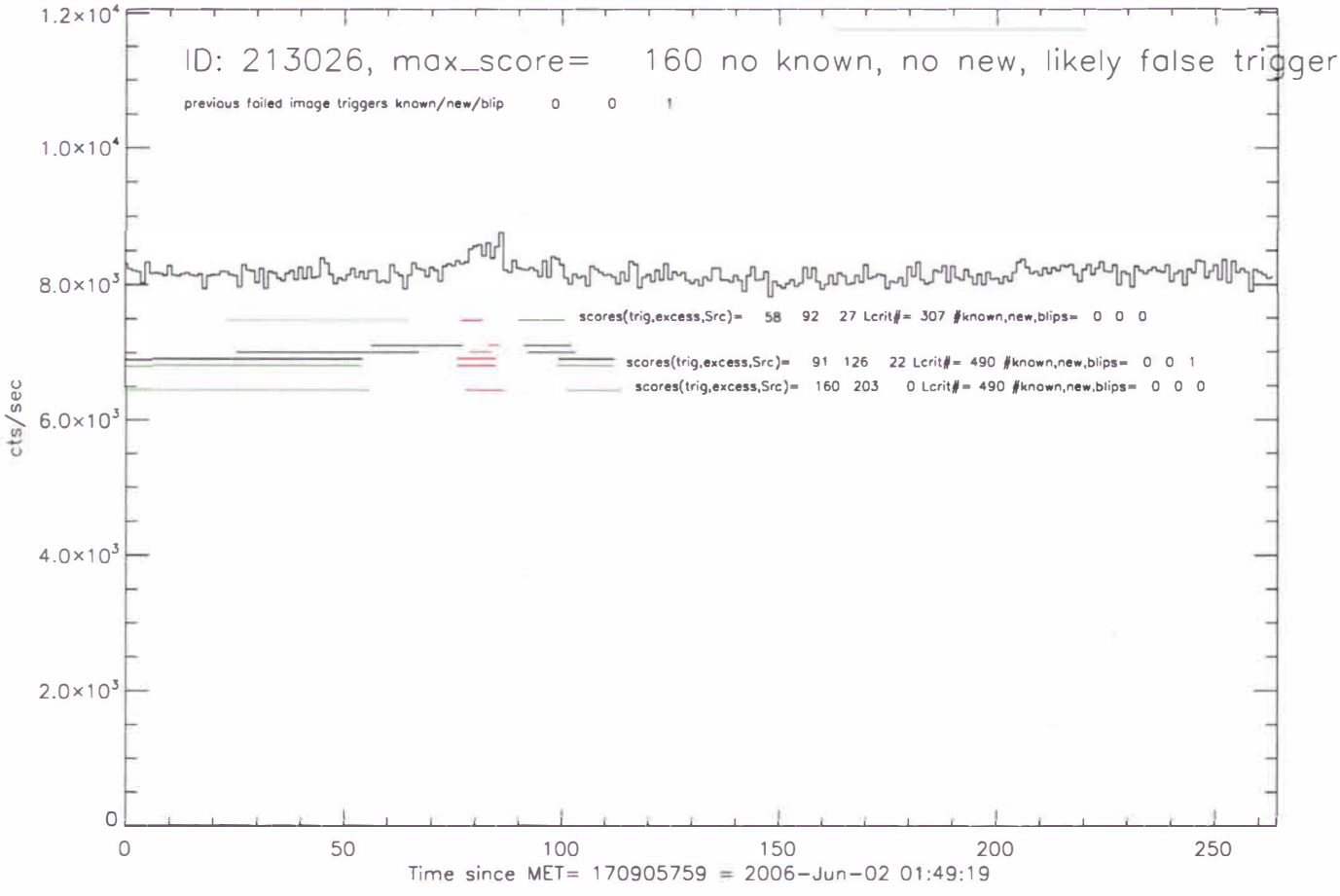
From palmer@lanl.gov Fri Jun 2 09:17:41 2006
X-ASG-Debug-ID: 1149265081-0343000b0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: mailwasher.lanl.gov[192.65.95.54]
X-Barracuda-Start-Time: 1149265081
Mime-Version: 1.0
Date: Fri, 2 Jun 2006 10:18:01 -0600
To: craigm@milkyway.gsfc.nasa.gov, derek@milkyway.gsfc.nasa.gov,
dmpalmer@mac.com, efenimore@lanl.gov, gehrels@gsfc.nasa.gov,
jayc@milkyway.gsfc.nasa.gov, koss@milkyway.gsfc.nasa.gov,
krimm@milkyway.gsfc.nasa.gov, lmb@milkyway.gsfc.nasa.gov,
"Kassandra M. Mclean" <kmclean@lanl.gov>, palmer@lanl.gov,
parsons@milkyway.gsfc.nasa.gov, scott@milkyway.gsfc.nasa.gov,
tueller@milkyway.gsfc.nasa.gov, michael@milkyway.gsfc.nasa.gov
From: David Palmer <palmer@lanl.gov>
X-ASG-Orig-Subj: 15 hour-old out-of-FOV burst Daily report 20060602 -- Part A
Subject: 15 hour-old out-of-FOV burst Daily report 20060602 -- Part A
Cc: Kevin Hurley <khurley@ssl.berkeley.edu>,
ohno@hirax7.hepl.hiroshima-u.ac.jp, yamaoka@phys.aoyama.ac.jp,
news-hxd-ipn@amalthea.phys.s.u-tokyo.ac.jp
X-PMX-Version: 4.7.1.128075
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

B

Probable out-of-FOV burst, 15k counts in 16 seconds and then a second
peak a minute later.
Trigger #213025 at 170905771 -> 2006-06-02 01:49:31
Trigger #213026 at 170905835 -> 2006-06-02 01:50:35 6635
while pointing at [348.872, -59.185 78.885]

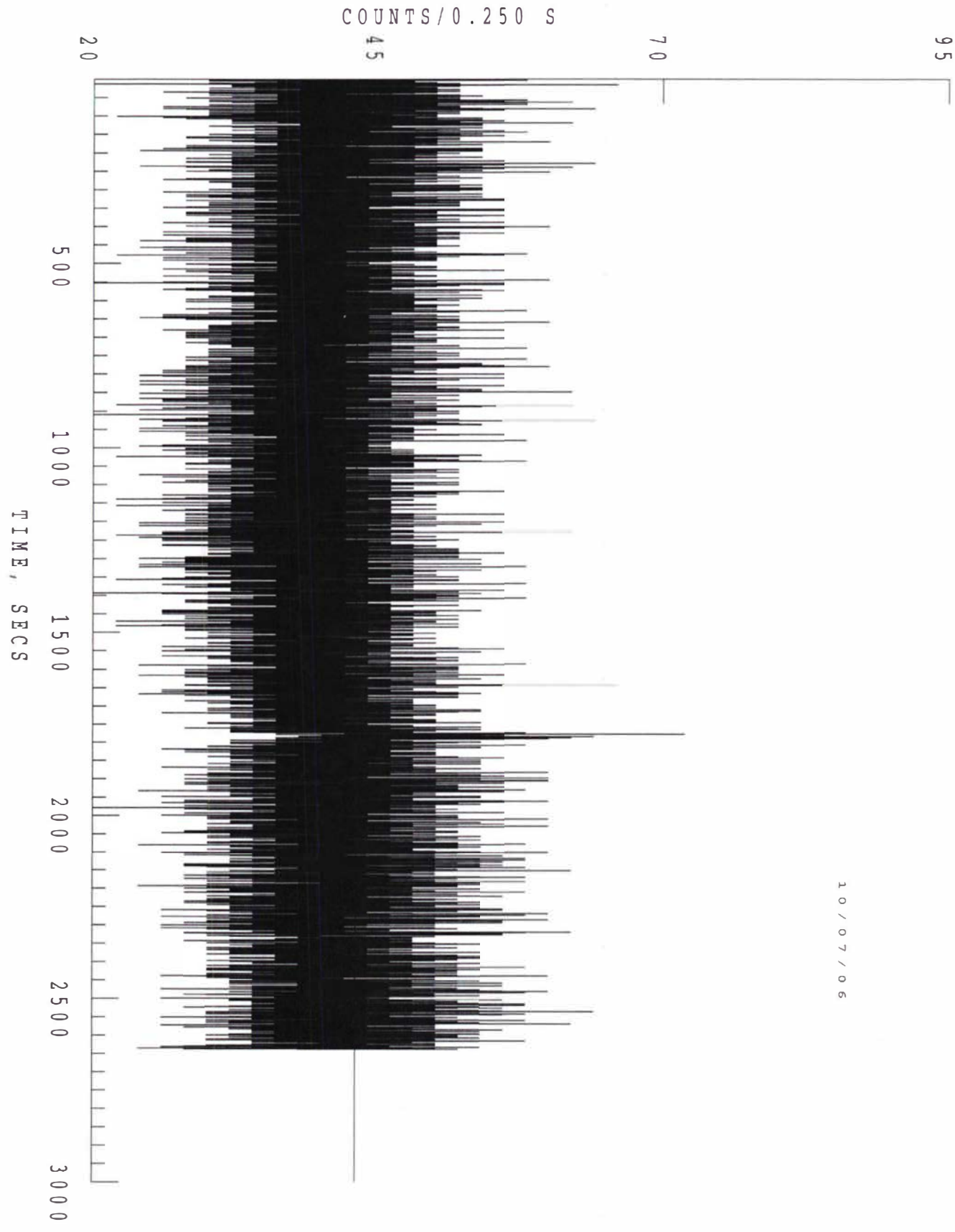
David Palmer palmer@lanl.gov (505)665-6863 (voice) (505)665-4414 (fax)

06639s B


ID: 213026, max_score= 160 no known, no new, likely false trigger
previous failed image triggers known/new/blip 0 0 1
scores(trig,excess,Src)= 58 92 27 Lcrit#= 307 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 91 126 22 Lcrit#= 490 #known,new,blips= 0 0 1
scores(trig,excess,Src)= 160 203 0 Lcrit#= 490 #known,new,blips= 0 0 0
cts/sec
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
0
50
100
150
200
250
Time since MET= 170905759 = 2006-Jun-02 01:49:19

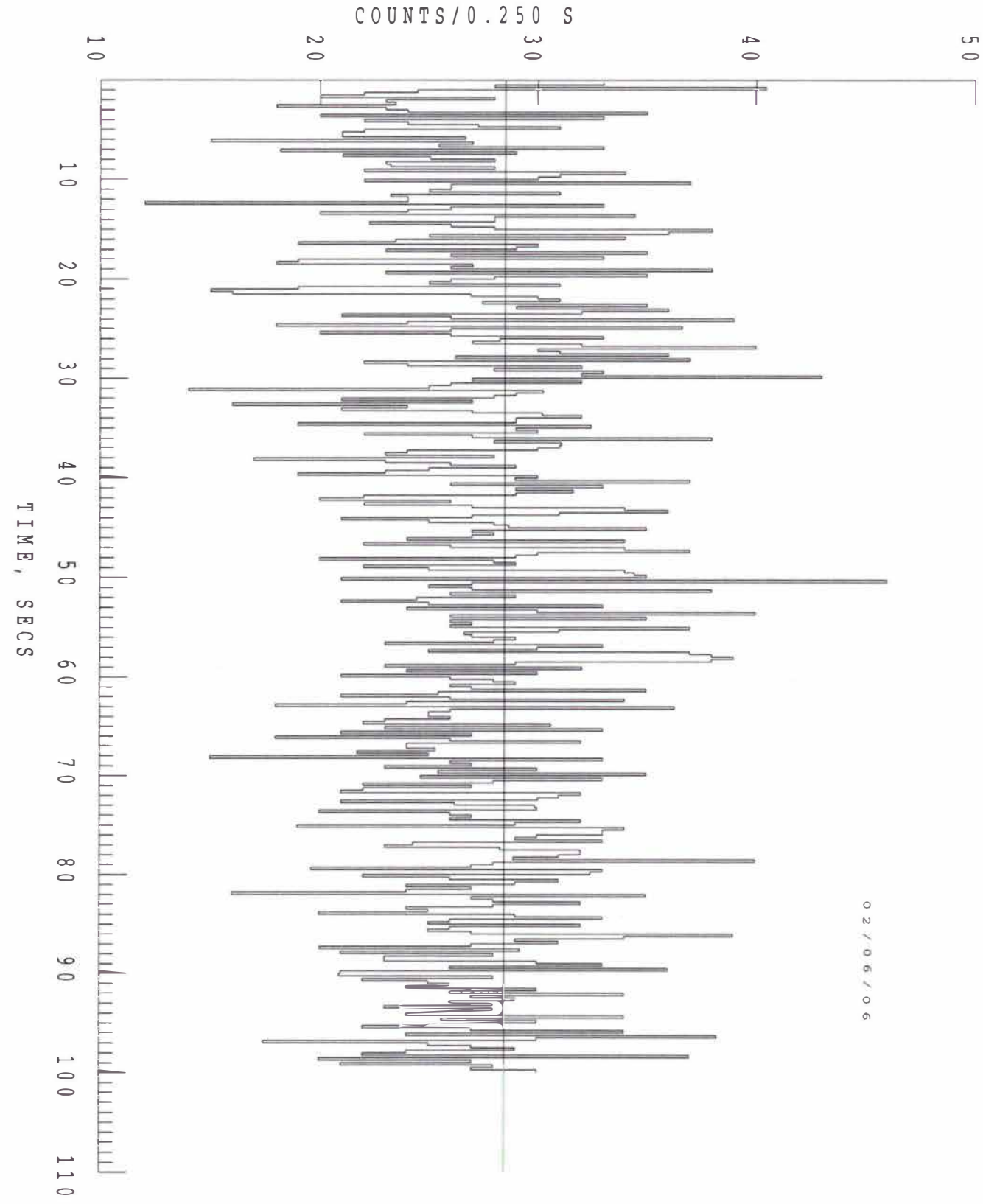
MS01 02/06/06 5289.258

50- 3000 keV



HESSI 02/06/06 6589.000 (swift_20060602_06639)

25- 150 keV



C

```
From owner-hete-science@space.mit.edu Fri Jun  2 05:39:15 2006
X-ASG-Debug-ID: 1149251969-22ff00490000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
 -Barracuda-Connect: SPACE.MIT.EDU[18.75.0.10]
 -Barracuda-Start-Time: 1149251969
Date: Fri, 2 Jun 2006 08:39:01 -0400
From: "Geoffrey B. Crew" <gbc@space.mit.edu>
To: Jean Luc Atteia <atteia@ast.obs-mip.fr>
Cc: HETE Science Team <hete-science@space.mit.edu>
X-ASG-Orig-Subj: Re: [hete-science] another event
Subject: Re: [hete-science] another event
Mime-Version: 1.0
Content-Disposition: inline
User-Agent: Mutt/1.4i
X-MajorDomo-List: hete-science
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-ASG-Whitelist: Sender (Per-User)

On Fri, Jun 02, 2006 at 10:09:07AM +0200, Jean Luc Atteia wrote:
> Hello,
>
> There is another event today (06/02) at 14395 sec UT.
>
> It's soft and probably an XRB, it is also seen in the WXM, so we may
> have a localization. can you do an UBID please ?
>
> Thank you,

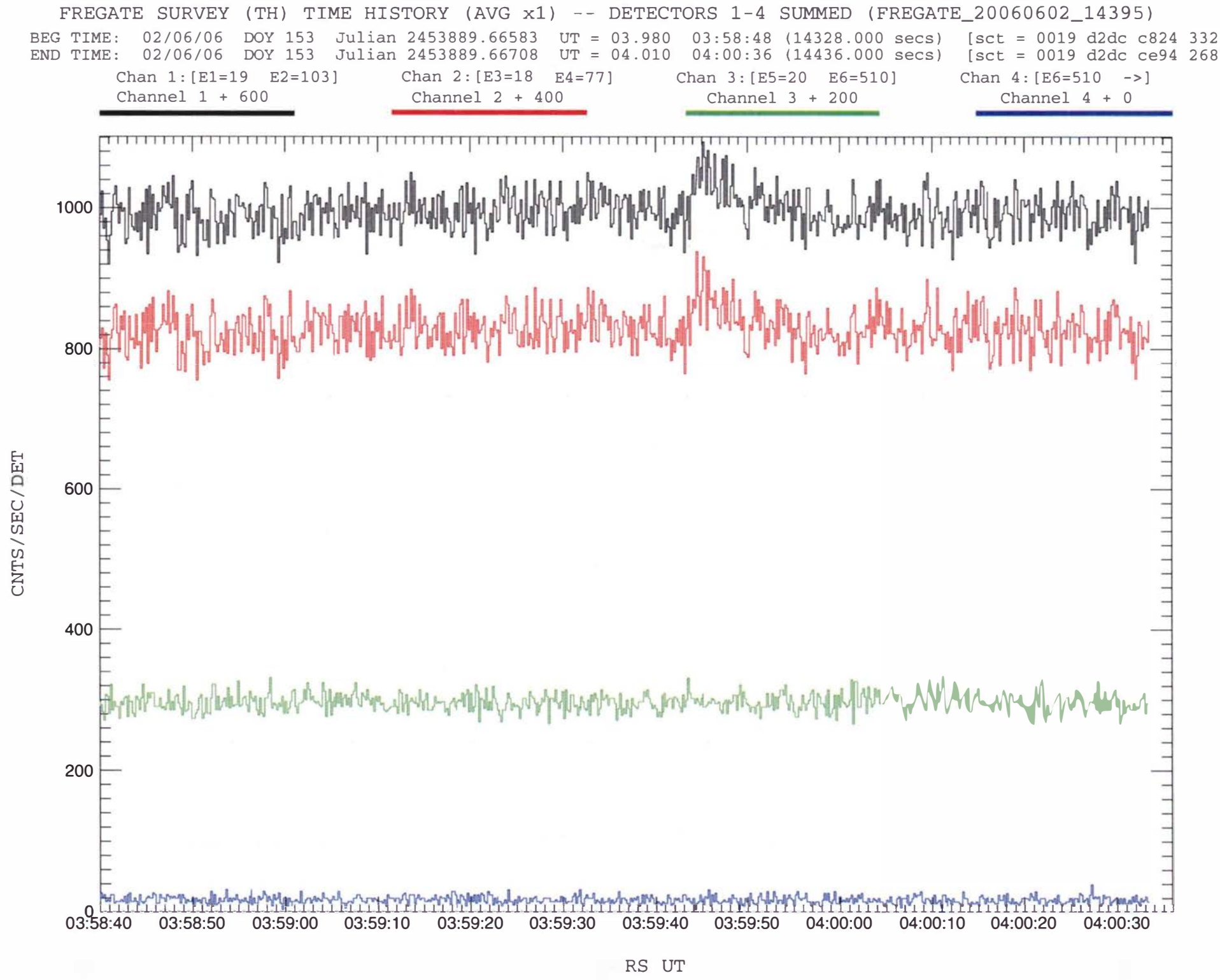
Creating burst directory ./UBID_11678
 or Jl
.ri Jun  2 12:26:33 2006
===== WXM coarse location (~20 arcmin error) is:
   Theta       F_good     SNR_Image  SNR_LC
   X: 23.24      0.97        8.14       7.61
   Y: -37.23     0.28        3.25       1.02
=====
(Ra,Dec) = ( 292.324,  -26.490) = (19h29m17s.7, -26o29'24")

I've also created
Creating burst directory ./UBID_11677
something the robot found.
Fri Jun  2 12:15:19 2006
#PGS_driver:  MDAlert has ISSUES with 20060602_115454S
#PGS_driver:  Processing for 20060602_115454S complete
===== WXM coarse location (~20 arcmin error) is:
   Theta       F_good     SNR_Image  SNR_LC
   X: 19.47      1.00       46.64      15.88
   Y: 6.78       1.00       22.00      20.14
=====
(Ra,Dec) = ( 244.693,  -29.113) = (16h18m46s.3, -29o06'47")

go nuts, folks.

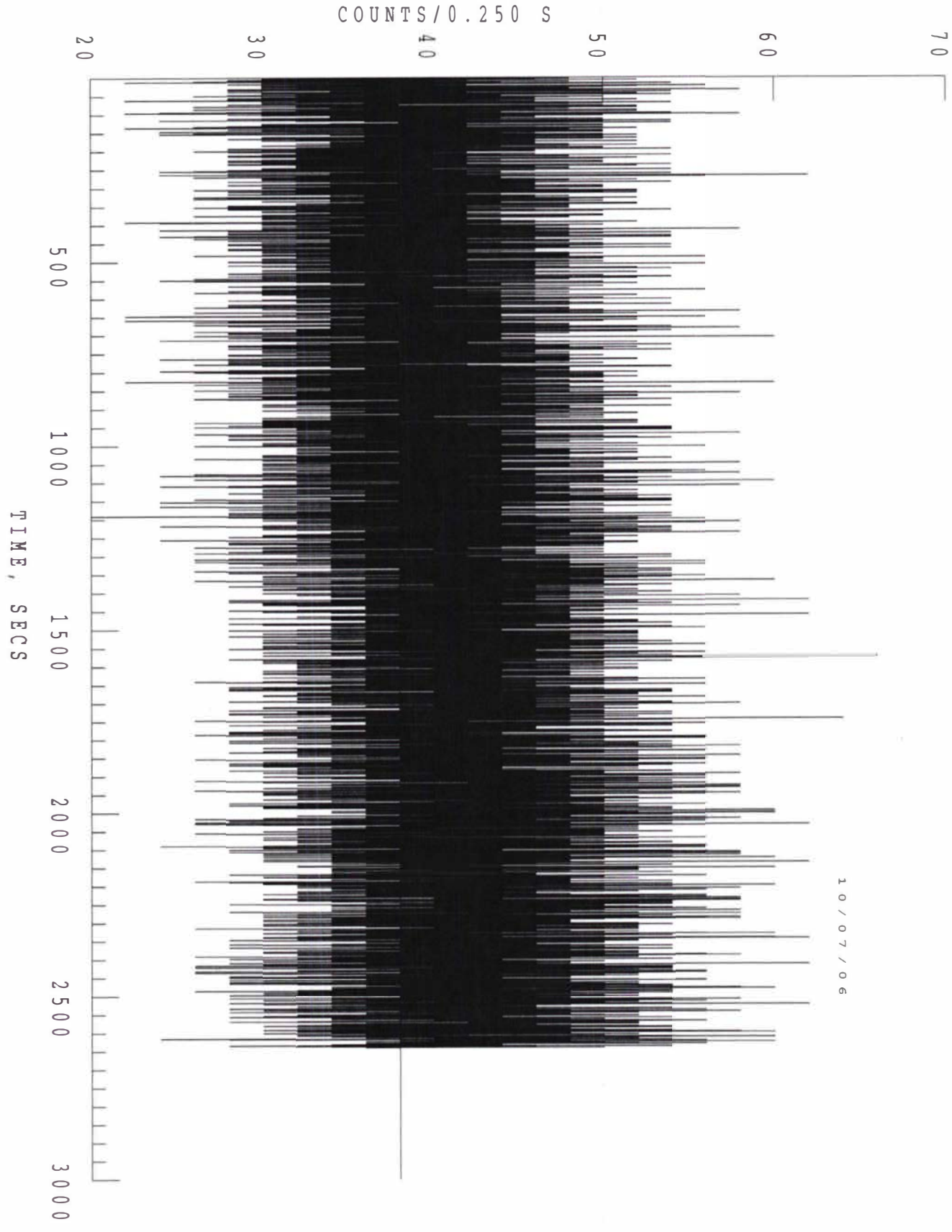
--

                Geoff
                gbc@space.mit.edu
```


FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (FREGATE_20060602_14395)
BEG TIME: 02/06/06 DOY 153 Julian 2453889.66583 UT = 03.980 03:58:48 (14328.000 secs) [sct = 0019 d2dc c824 3329]
END TIME: 02/06/06 DOY 153 Julian 2453889.66708 UT = 04.010 04:00:36 (14436.000 secs) [sct = 0019 d2dc ce94 2687]
Chan 1:[E1=19 E2=103]
Channel 1 + 600
Chan 2:[E3=18 E4=77]
Channel 2 + 400
Chan 3:[E5=20 E6=510]
Channel 3 + 200
Chan 4:[E6=510 ->]
Channel 4 + 0
CNTS/SEC/DET
1000
800
600
400
200
0
03:58:40
03:58:50
03:59:00
03:59:10
03:59:20
03:59:30
03:59:40
03:59:50
04:00:00
04:00:10
04:00:20
04:00:30
RS UT

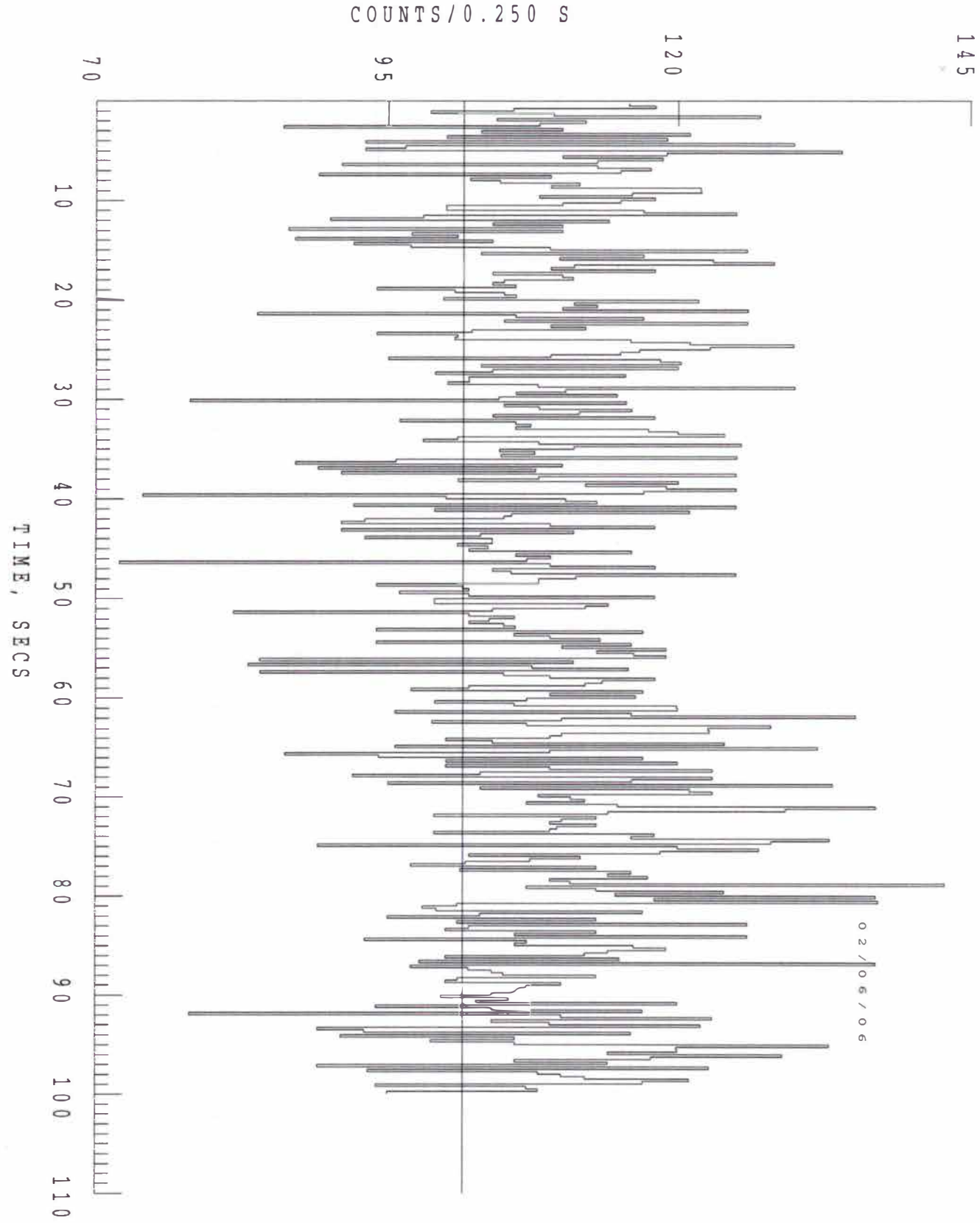
MS01 02/06/06 13029.122

50- 3000 keV



HESSI 02/06/06 14345.000 (FREGATE_20060602_14395)

25- 150 keV



D

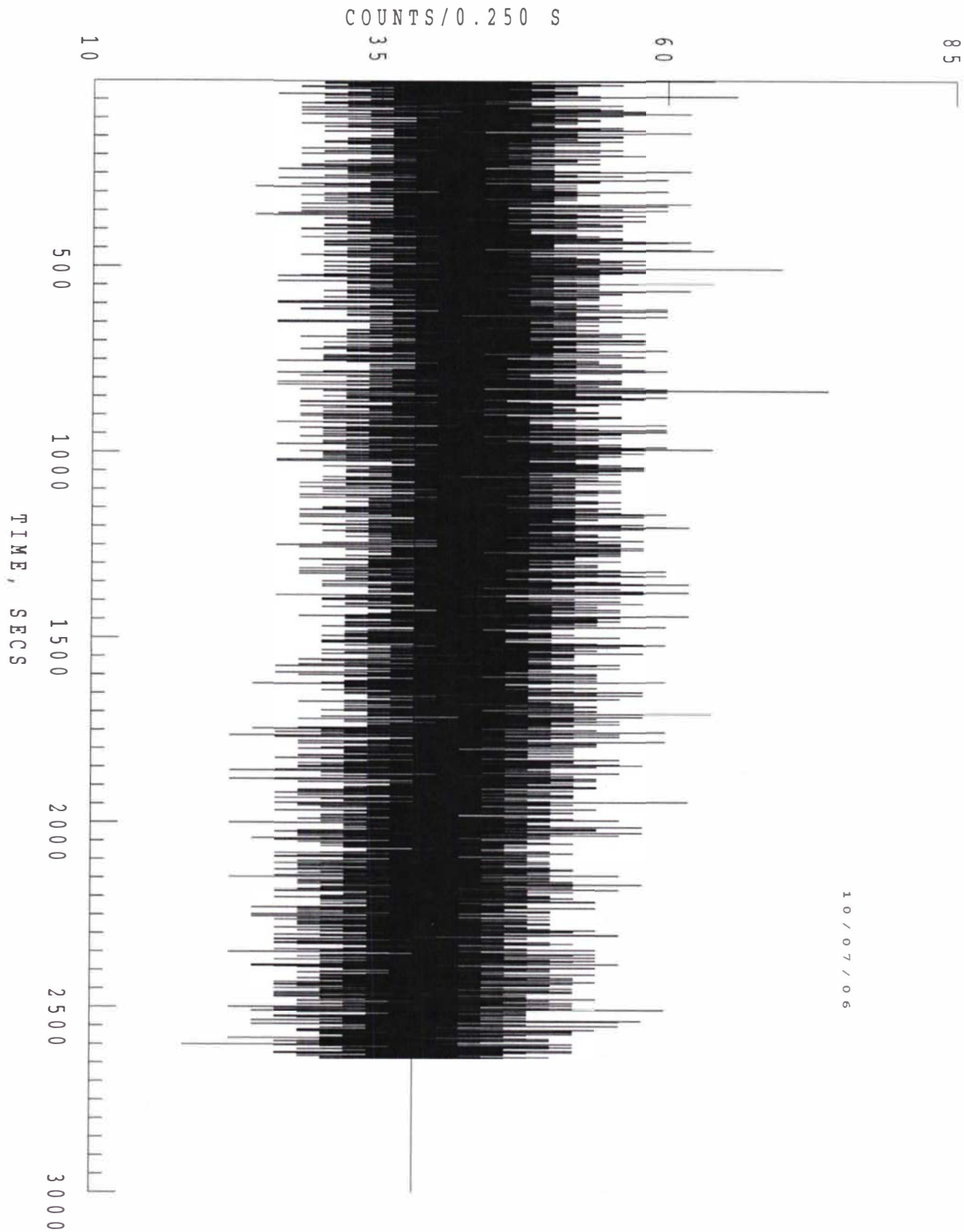
```
From vxw@capella.gsfc.nasa.gov Fri Jun  2 07:19:31 2006
X-ASG-Debug-ID: 1149257992-4fc500240000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: capella.gsfc.nasa.gov[128.183.16.187]
X-Barracuda-Start-Time: 1149257992
X-ASG-Whitelist:  Sender
Date: Fri, 2 Jun 2006 10:19:51 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: GCN/HETE_POSITION
Subject: GCN/HETE_POSITION
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

TITLE:           GCN/HETE BURST POSITION NOTICE
NOTICE_DATE:     Fri 02 Jun 06 14:18:57 UT
NOTICE_TYPE:     HETE S/C_Alert
TRIGGER_NUM:     4075,   Seq_Num: 1
GRB_DATE:        13888 TJD;   153 DOY;   06/06/02
GRB_TIME:        51533.65 SOD {14:18:53.65} UT
TRIGGER_SOURCE:  Trigger on the 25-400 keV band.
GAMMA_RATE:      150  [cnts/s]  on a 0.160 [sec] timescale
SC_LONG:         232 [deg East]
SUN_POSTN:        70.41d {+04h 41m 38s}  +22.22d {+22d 12' 58"}
MOON_POSTN:      150.34d {+10h 01m 21s}  +15.16d {+15d 09' 47"}
MOON_ILLUM:      37 [%]
COMMENTS:        No s/c ACS pointing info available yet.
COMMENTS:        Probable GRB.
```

SGR ?

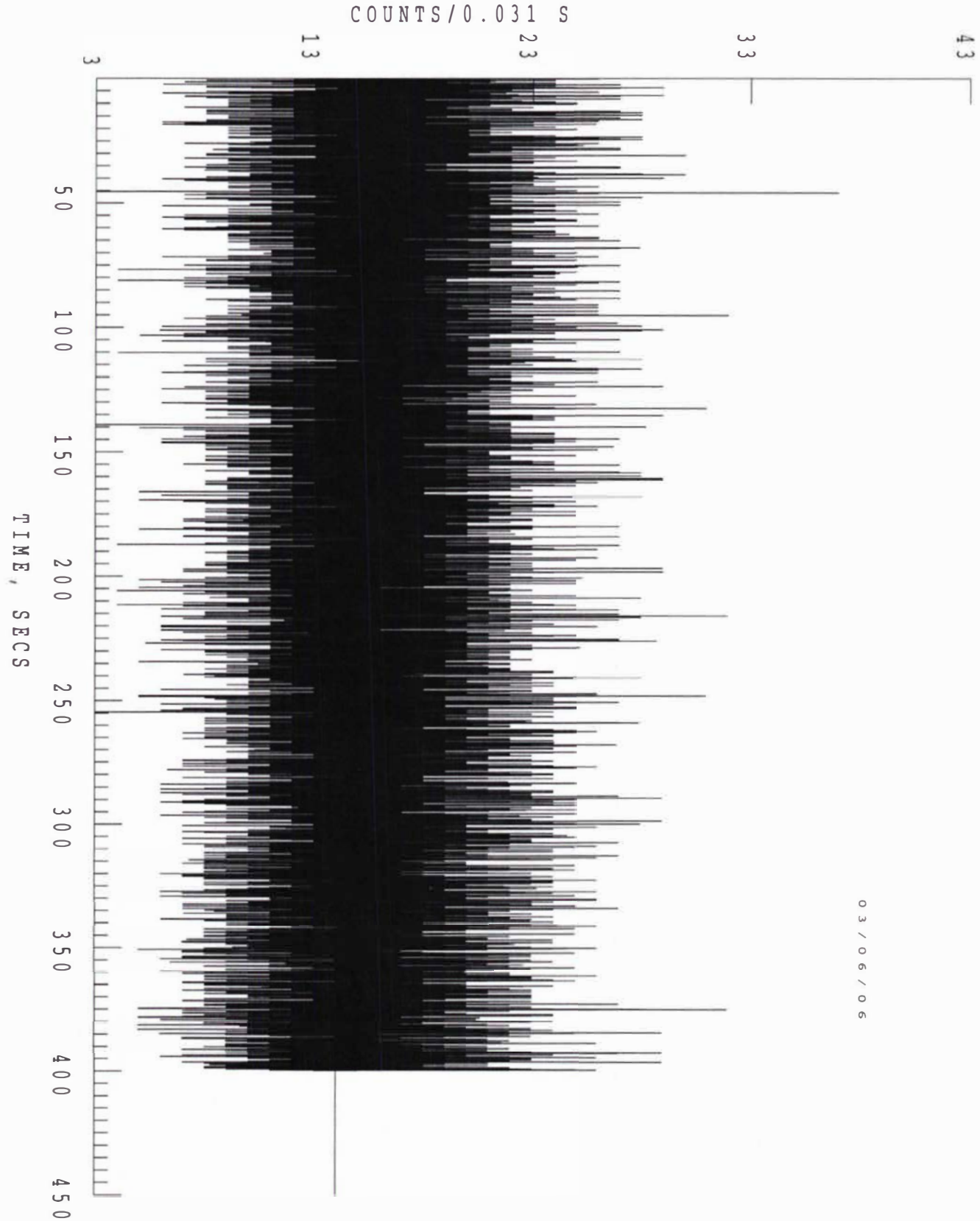
MS01 02/06/06 50168.443

50- 3000 keV



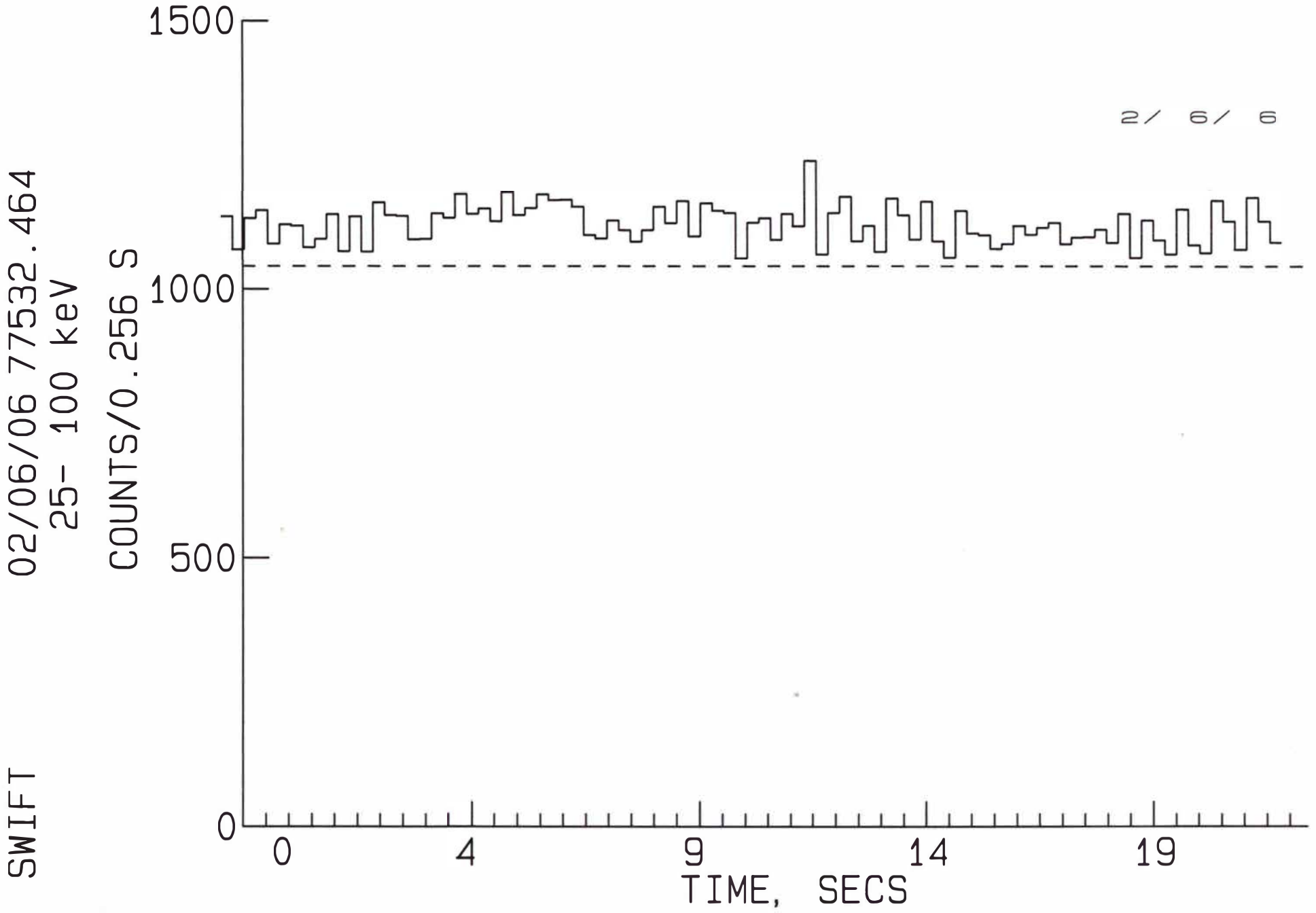
HESSI 02/06/06 51333.000 (GHETE_4075_1_20060602_51533)

25- 150 keV



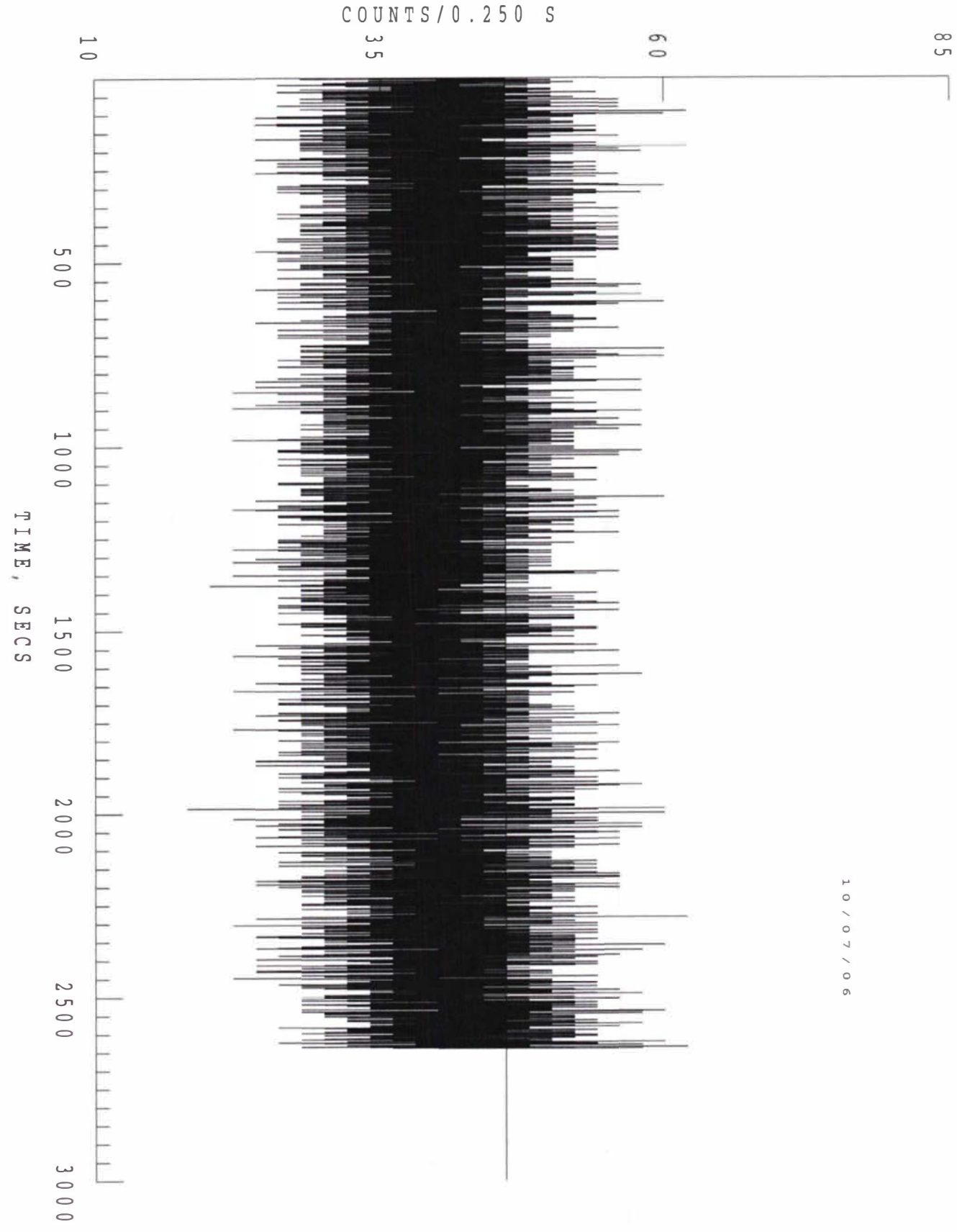
```
From vxw@capella.gsfc.nasa.gov Fri Jun  2 14:36:11 2006
X-ASG-Debug-ID: 1149284192-0a7500090000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: capella.gsfc.nasa.gov[128.183.16.187]
X-Barracuda-Start-Time: 1149284192
X-ASG-Whitelist:  Sender
Date: Fri, 2 Jun 2006 17:36:32 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: GCN/SWIFT_BAT_LIGHTCURVE
Subject: GCN/SWIFT_BAT_LIGHTCURVE
Mime-Version: 1.0
Content-Disposition: inline
User-Agent: Mutt/1.4.2.1i
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

TITLE:            GCN/SWIFT NOTICE
NOTICE_DATE:      Fri 02 Jun 06 21:35:58 UT
NOTICE_TYPE:      Swift-BAT GRB Lightcurve
TRIGGER_NUM:      213180,    Seg_Num: 0
GRB_RA:           149.576d {+09h 58m 18s} (J2000),
                  149.658d {+09h 58m 38s} (current),
                  148.934d {+09h 55m 44s} (1950)
GRB_DEC:           +0.323d {+00d 19' 23"} (J2000),
                   +0.292d {+00d 17' 32"} (current),
                   +0.562d {+00d 33' 44"} (1950)
GRB_DATE:         13888 TJD;   153 DOY;   06/06/02
GRB_TIME:         77532.46 SOD {21:32:12.46} UT
TRIGGER_INDEX:    491
 RB_PHI:           -7.71 [deg]
,RB_THETA:         44.53 [deg]
DELTA_TIME:       71.00 [sec]
TRIGGER_DUR:      12.160 [sec]
SOLN_STATUS:      0x3
RATE_SIGNIF:      13.11 [sigma]
IMAGE_SIGNIF:     7.58 [sigma]
LC_URL:           sw00213180000msb.lc
SUN_POSTN:         70.72d {+04h 42m 52s}  +22.25d {+22d 15' 17"}
SUN_DIST:          79.66 [deg]   Sun_angle= -5.3 [hr] (East of Sun)
MOON_POSTN:       153.72d {+10h 14m 52s}  +13.65d {+13d 38' 60"}
MOON_DIST:         13.95 [deg]
MOON_ILLUM:       40 [%]
GAL_COORDS:       238.43, 40.58 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS:       151.57,-11.32 [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 = 239.32,-3.24 [deg
```


SWIFT
02/06/06 77532.464
25- 100 keV
COUNTS/0.256 S
1500
1000
500
0
0
4
9
14
19
TIME, SECS
2/ 6/ 6

MS01 02/06/06 76207.964

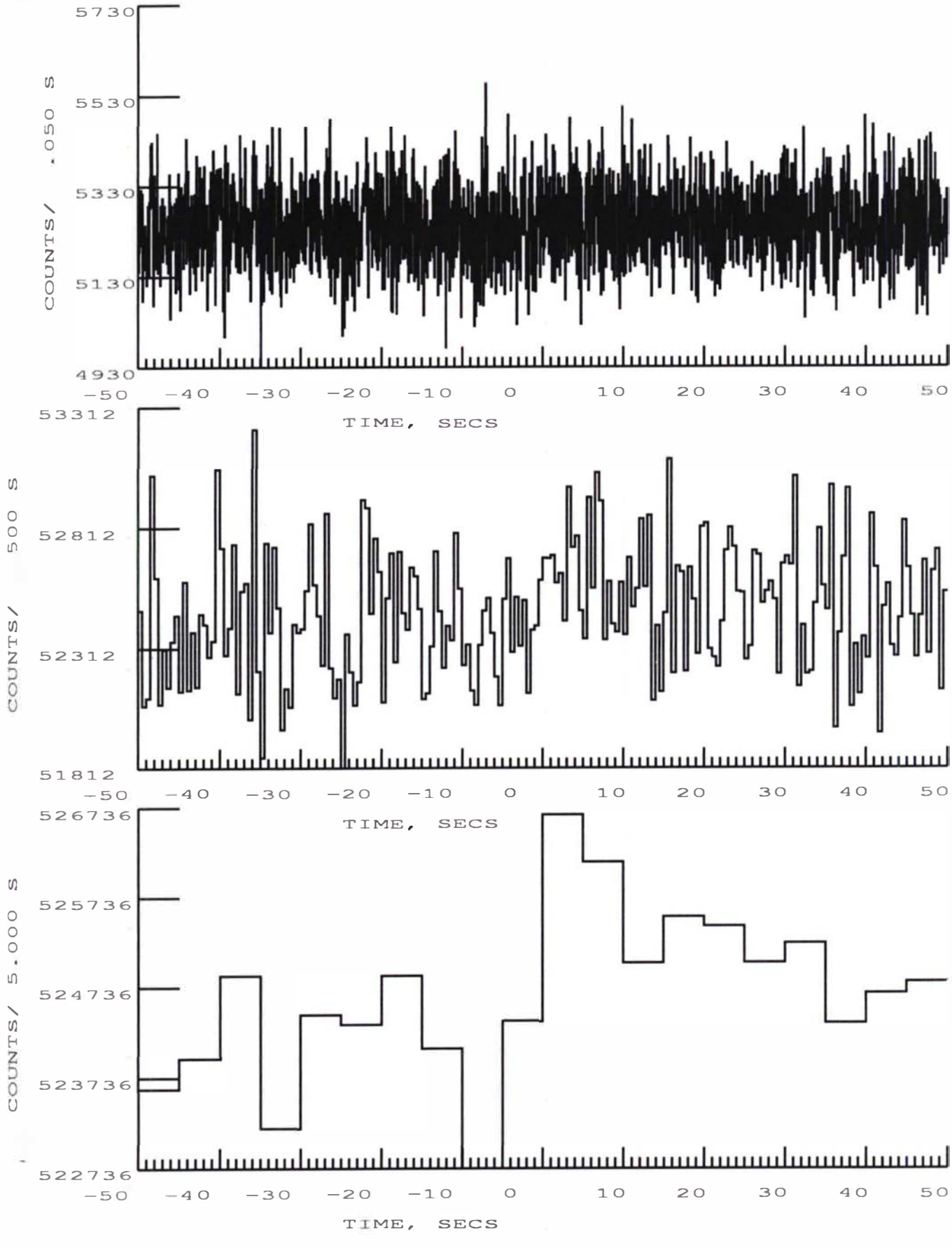
50- 3000 keV



10/07/06

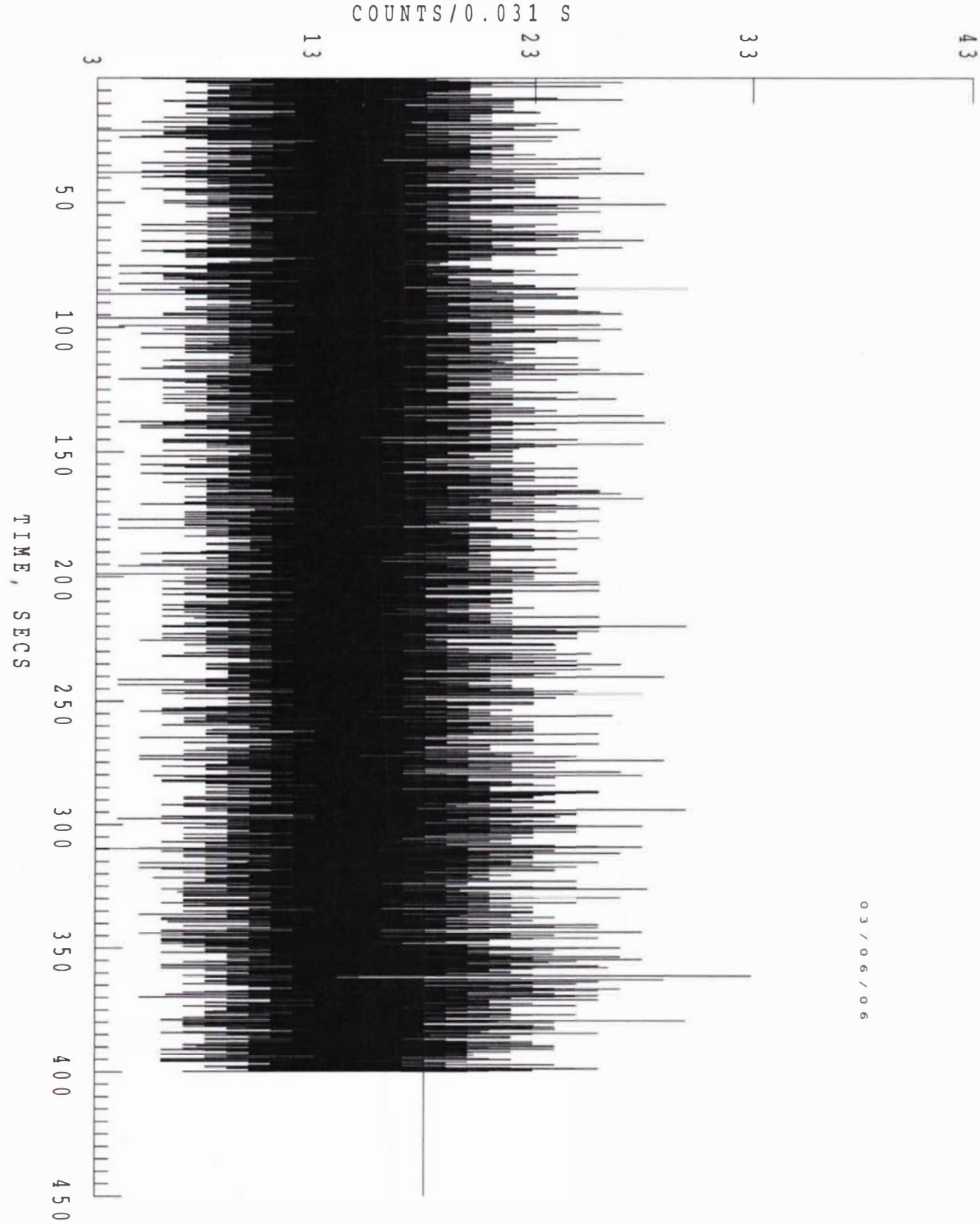
E

INTEGRAL 02/06/06 77532.000 21:32:12.0 11/07/14



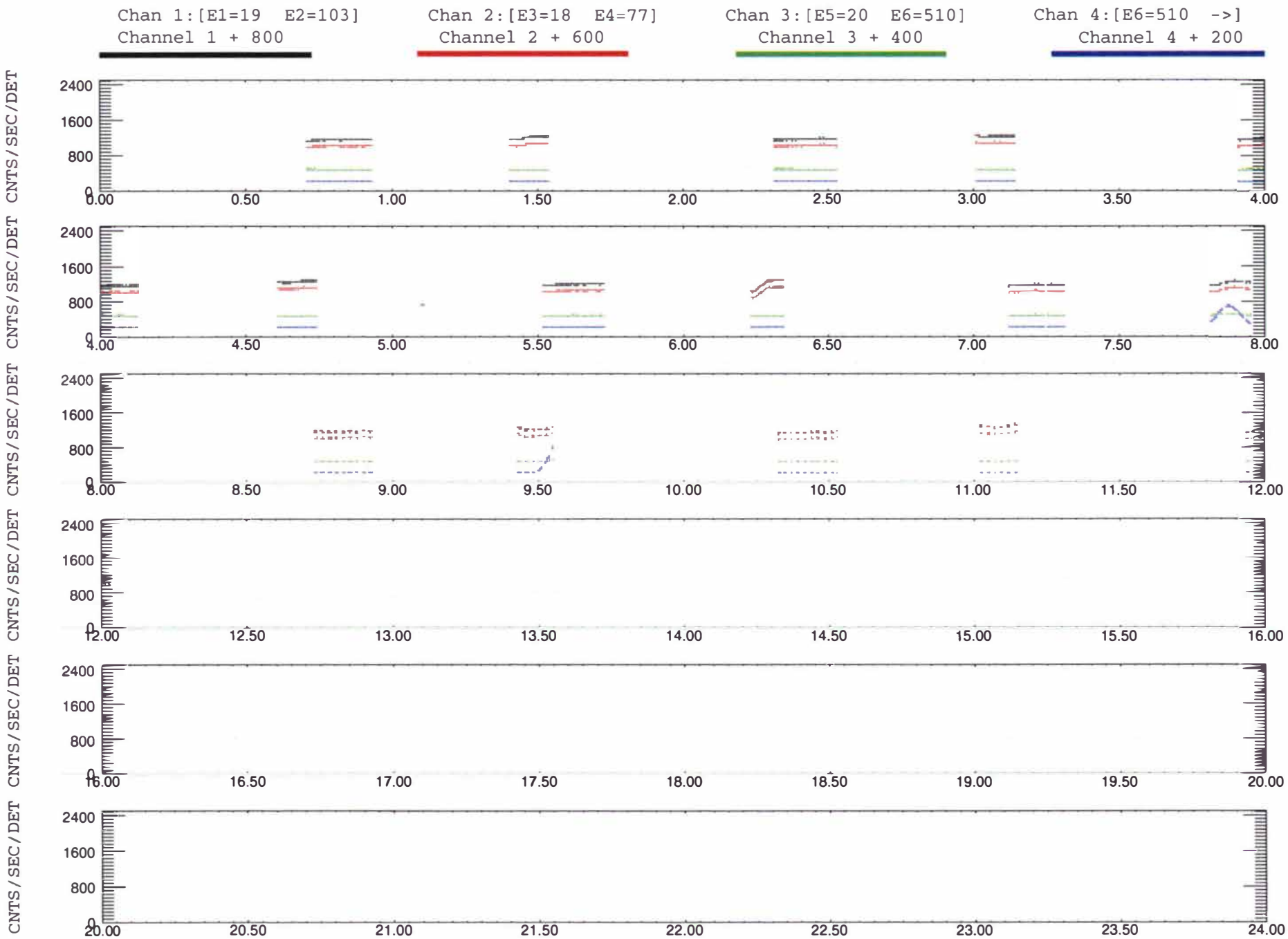
HESSI 02/06/06 77332.000 (GSwift-BAT_213180_0_20060602_

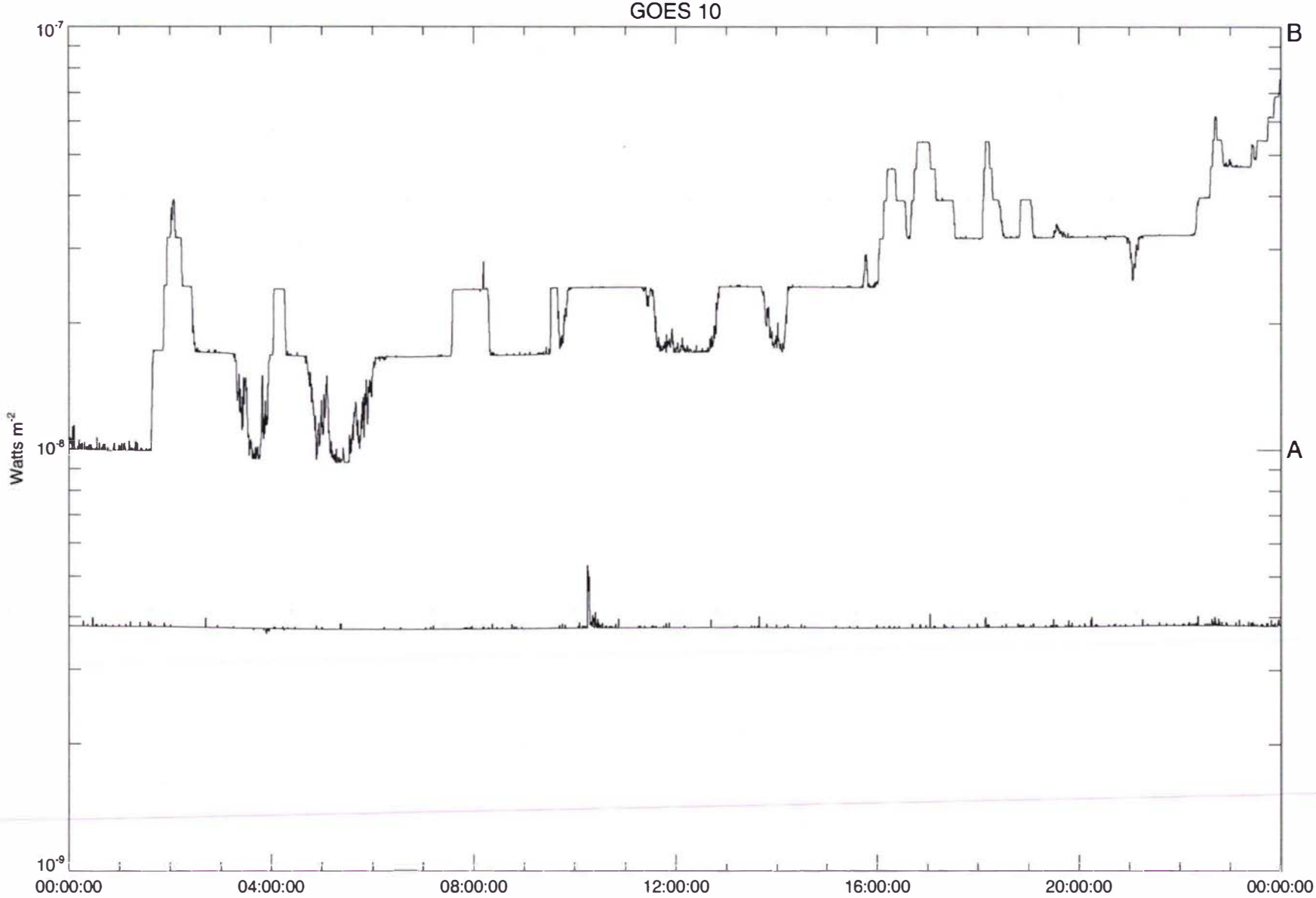
25- 150 keV



FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED

02/06/06 DOY 153 Julian 2453889.50000 [est. sct = 0019 d2d9 7220 1579]





Data Start: 06/06/02, 0000:00 Plot created: 06/06/05, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

Date: 01 Jul '10

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

☐ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

2. AGILE Data

☐ 1 second timing error corrected?

3. MESSENGER Data

☐ Coarse or fine oscillator?

☐ 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)

☐ 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

☐ Σ 3Δt'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?

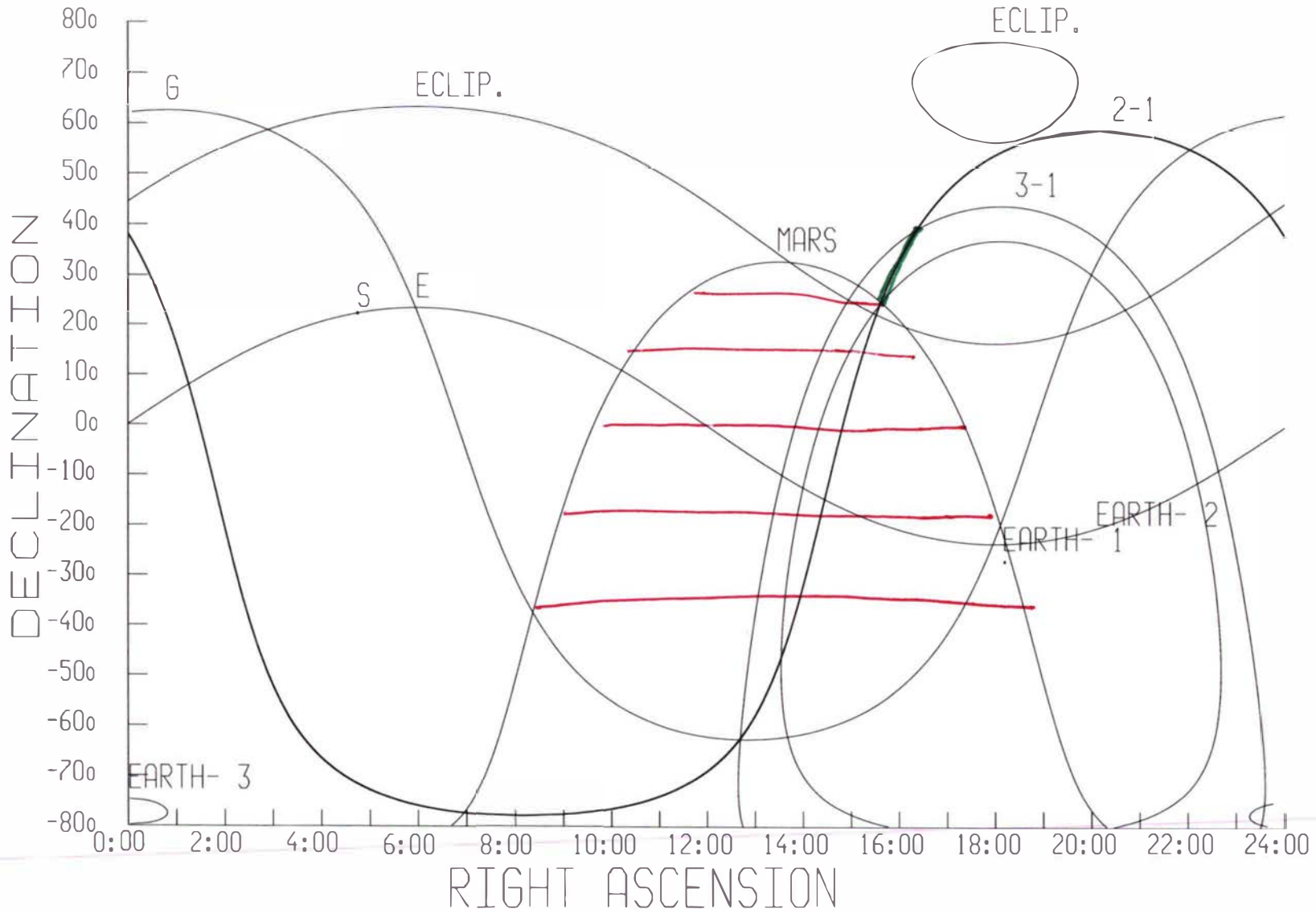
☐ Updated ephemeris used for bursts prior to September 30, 2003?

☑ ACCESS and MBL4 databases updated, with identical times?

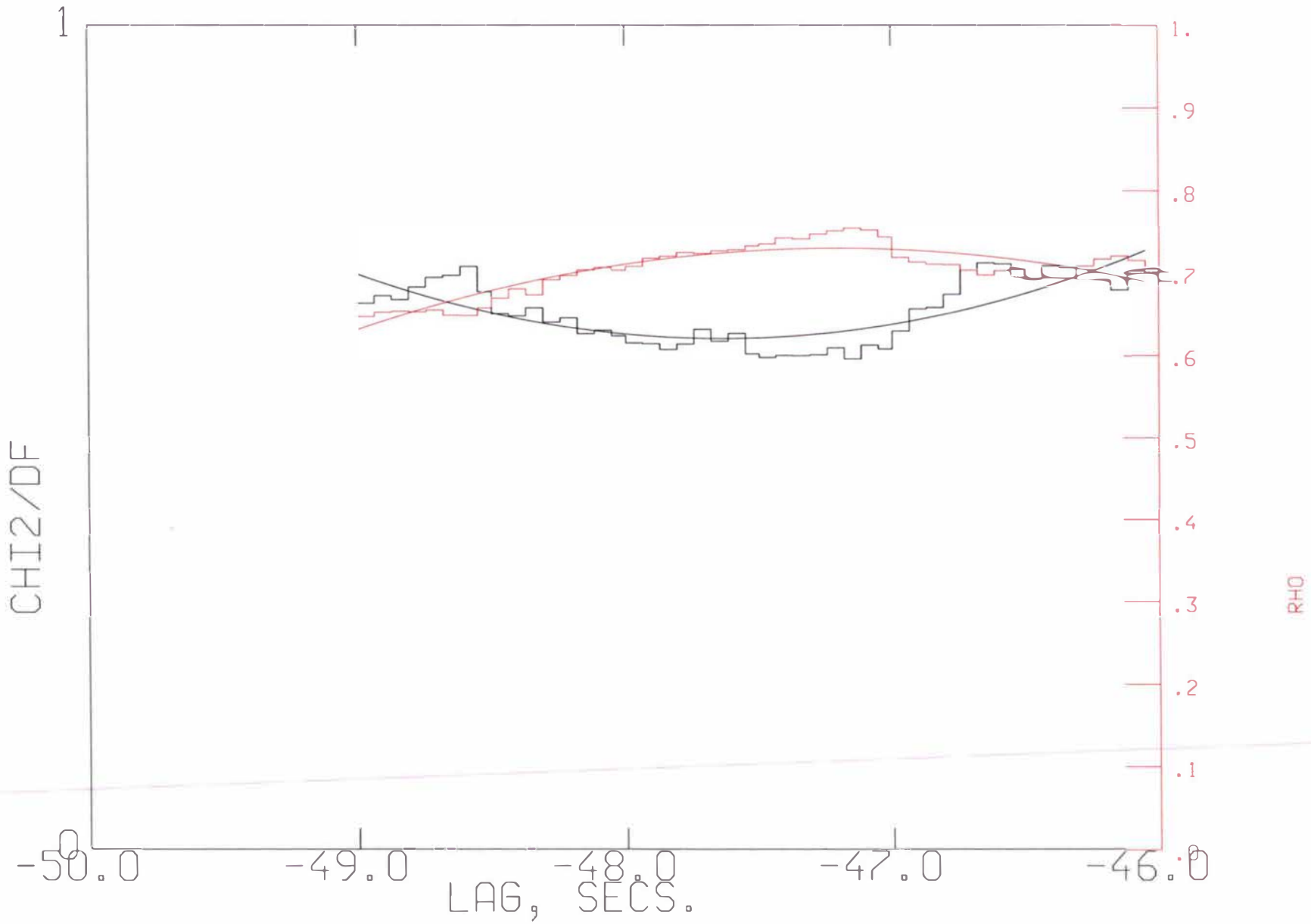
EVENT OF JUN 3, 2006 7:41

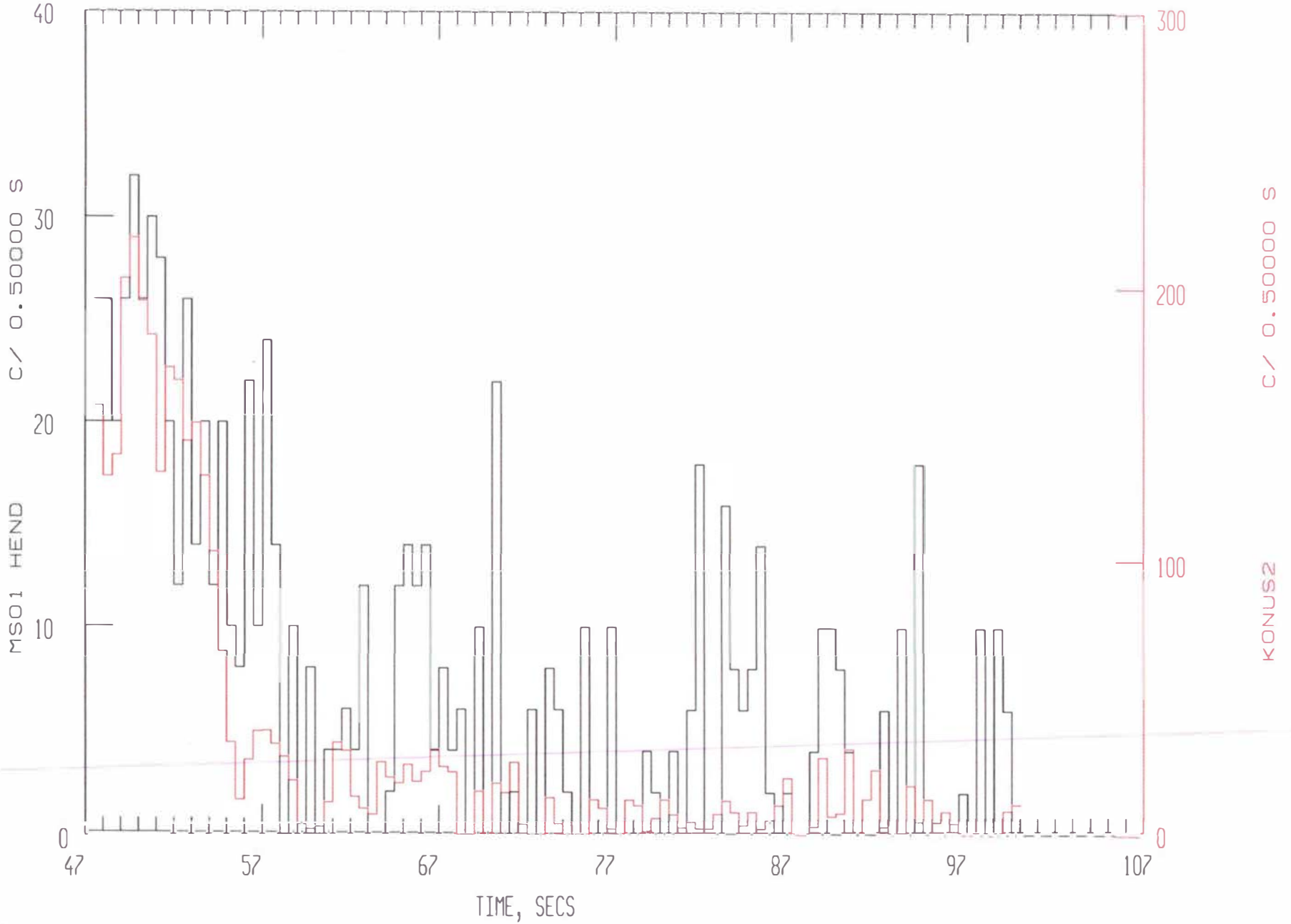
01/07/2010

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 INTEGRAL

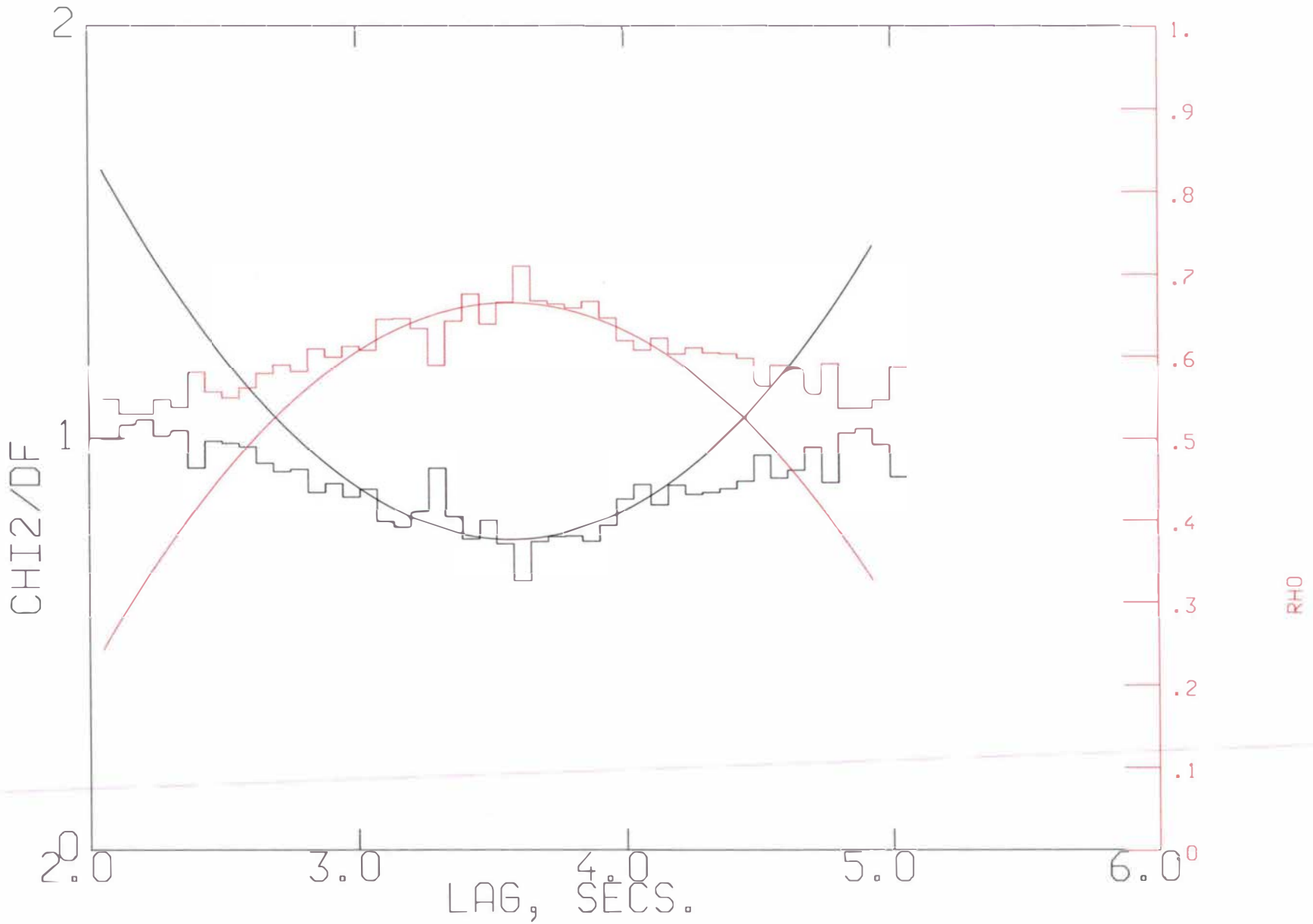


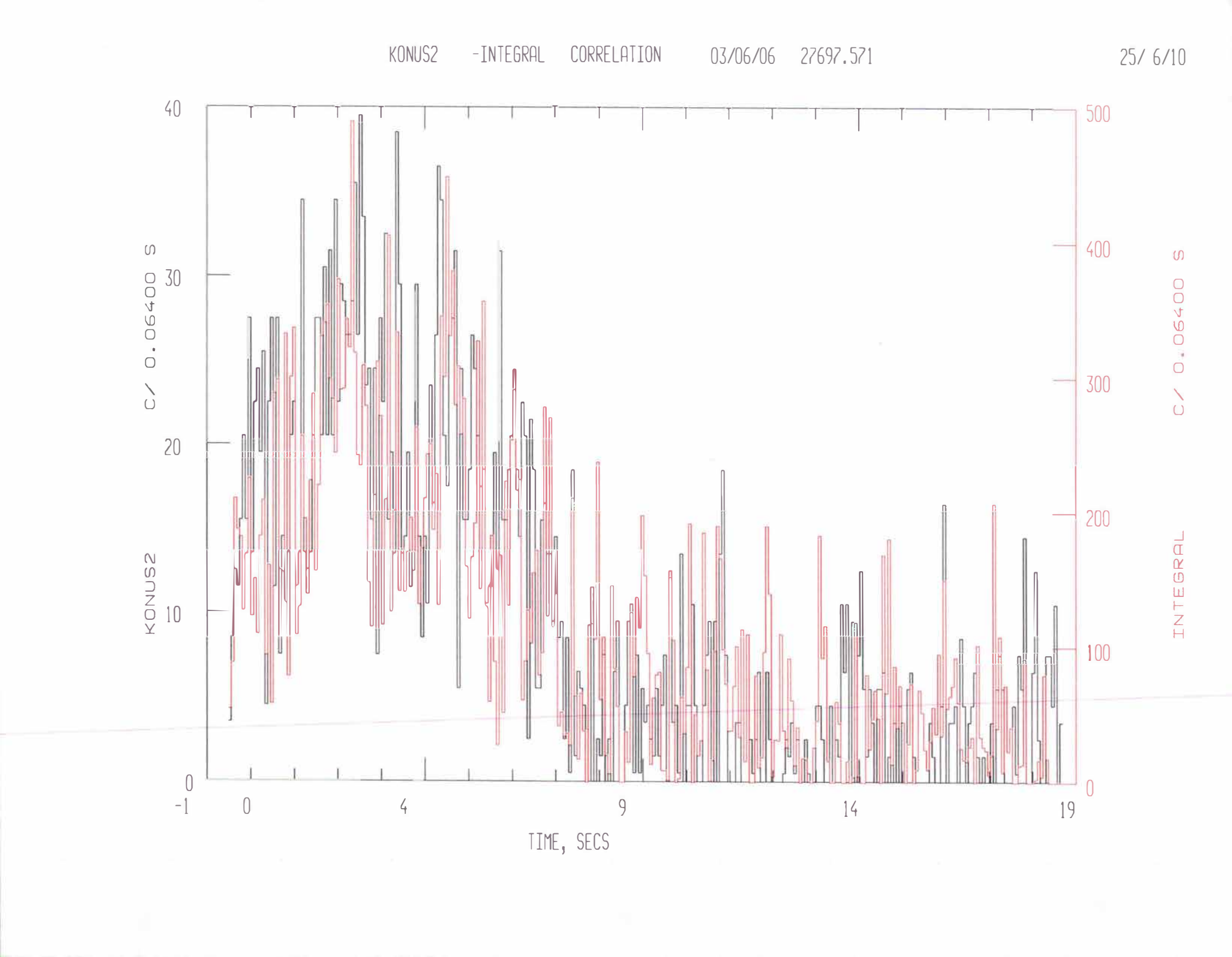
MSO1 HEND -KONUS2 CORRELATION 03/06/06 27827.278




40
30
20
10
0
C/ 0.50000 S
MS01 HEND
300
200
100
0
C/ 0.50000 S
KONUS2
47
57
67
77
87
97
107
TIME, SECS

KONUS2 -INTEGRAL CORRELATION 03/06/06 27697.571



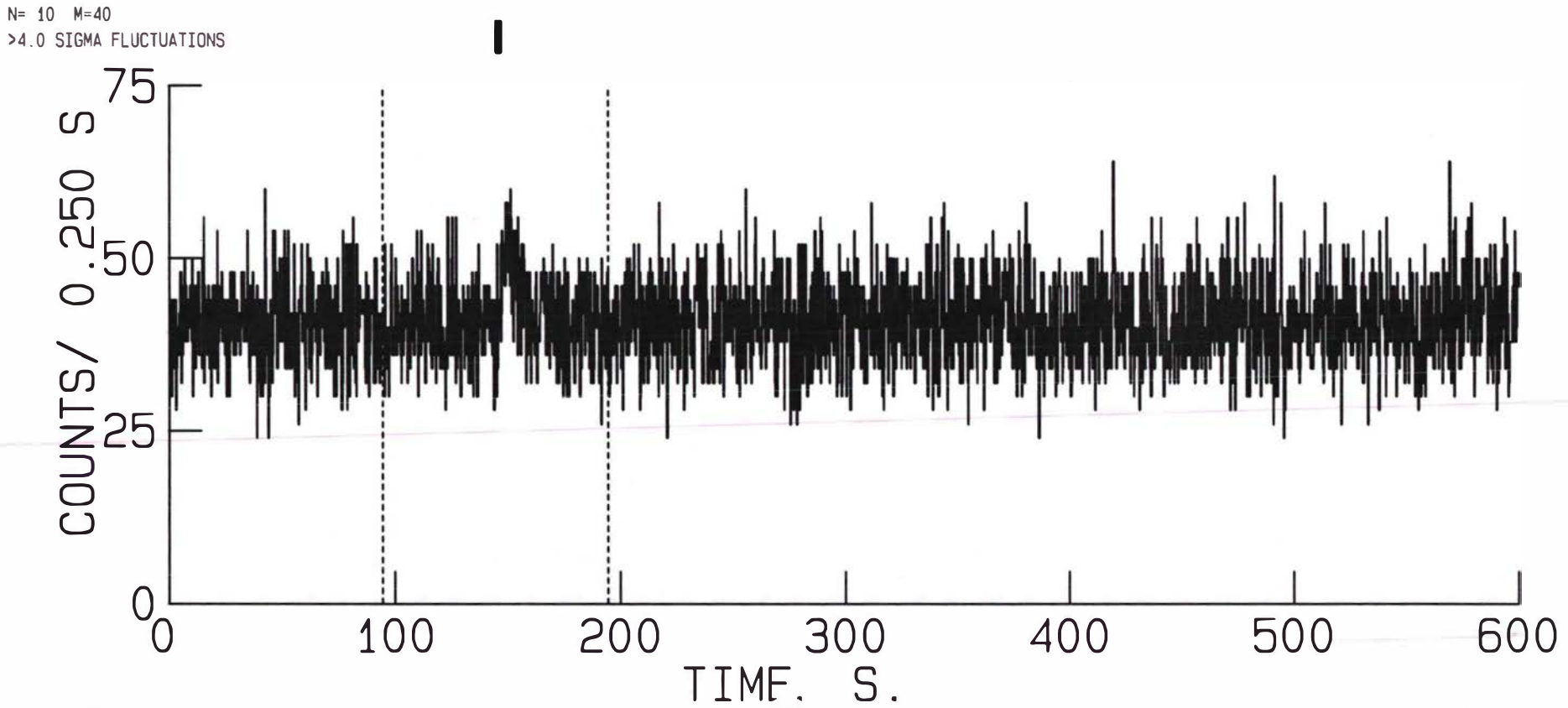

KONUS2 -INTEGRAL CORRELATION 03/06/06 27697.571
25/ 6/10
KONUS2
C/ 0.06400 S
INTEGRAL
C/ 0.06400 S
TIME, SECS
0
10
20
30
40
100
200
300
400
500
-1
0
4
9
14
19

MS01 HEND

13/07/06

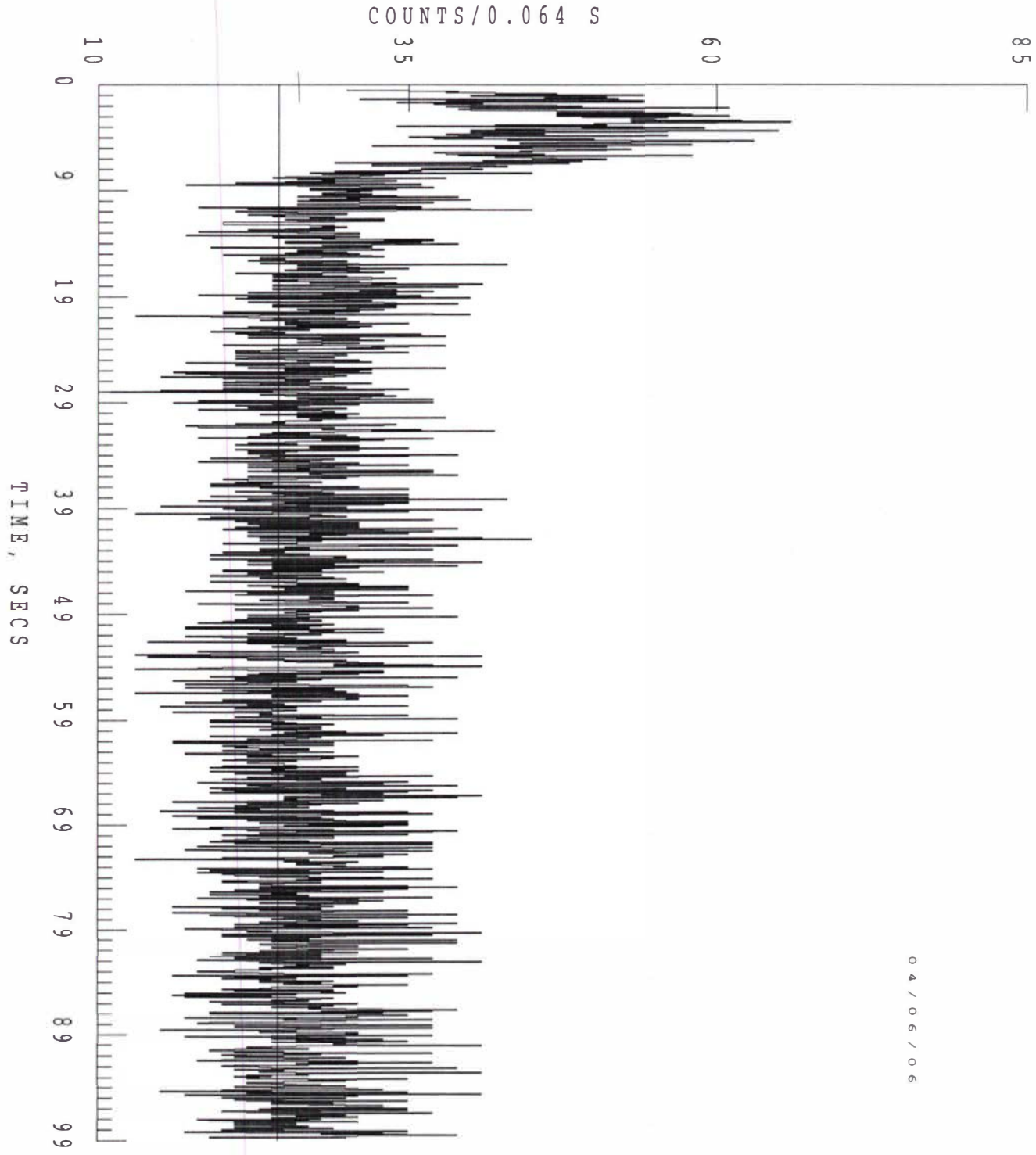
03/06/06 27727.279 s

50-3000 keV



KONUS2 03/06/06 27697.571

50- 200 keV 07:41:37



04/06/06

KONUS HRES 20060603 27697

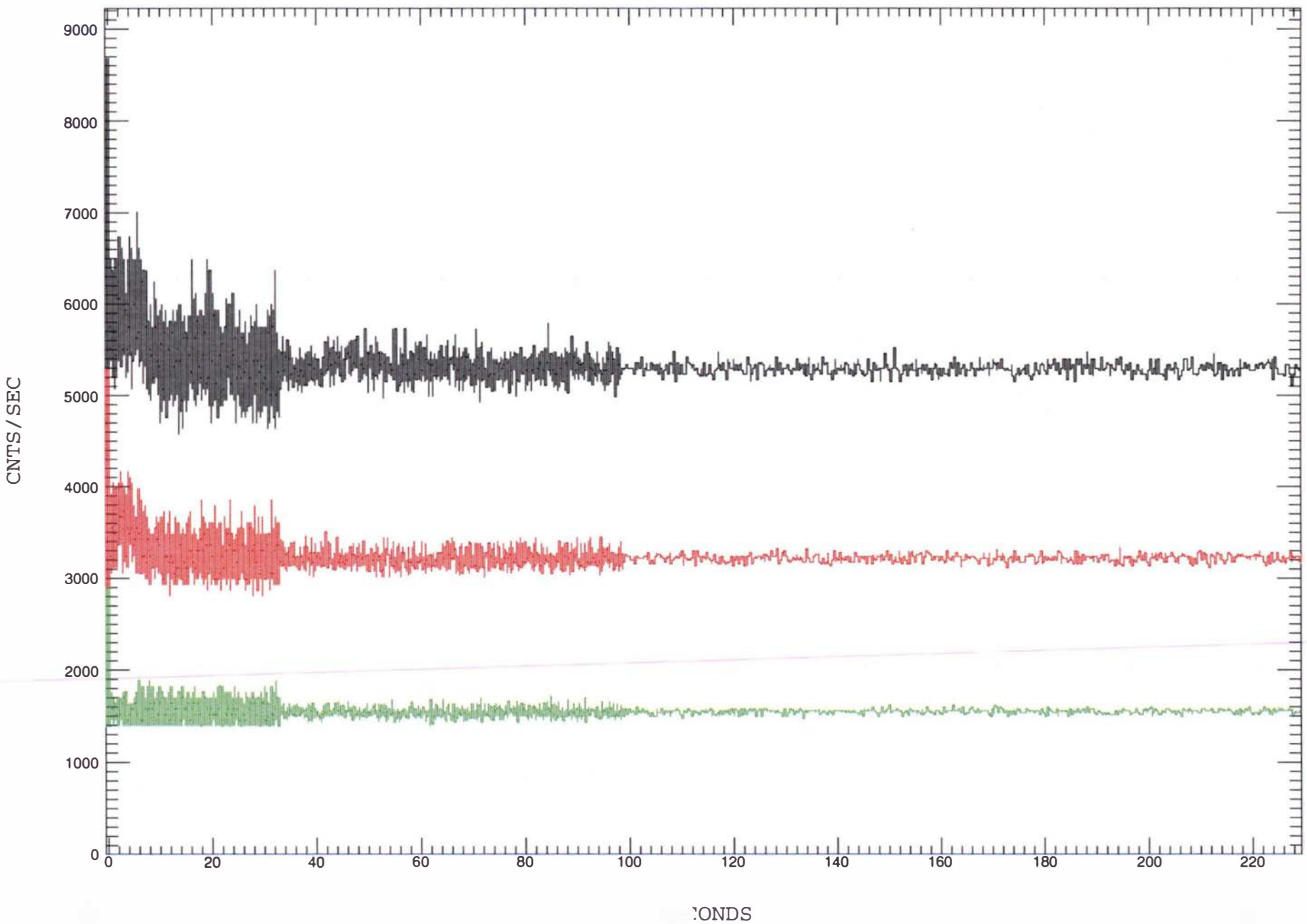
TRIGGER TIME: 03/06/06 DOY 154 Julian 2453890.82057 UT = 07.694 07:41:37 (27697.000 secs)

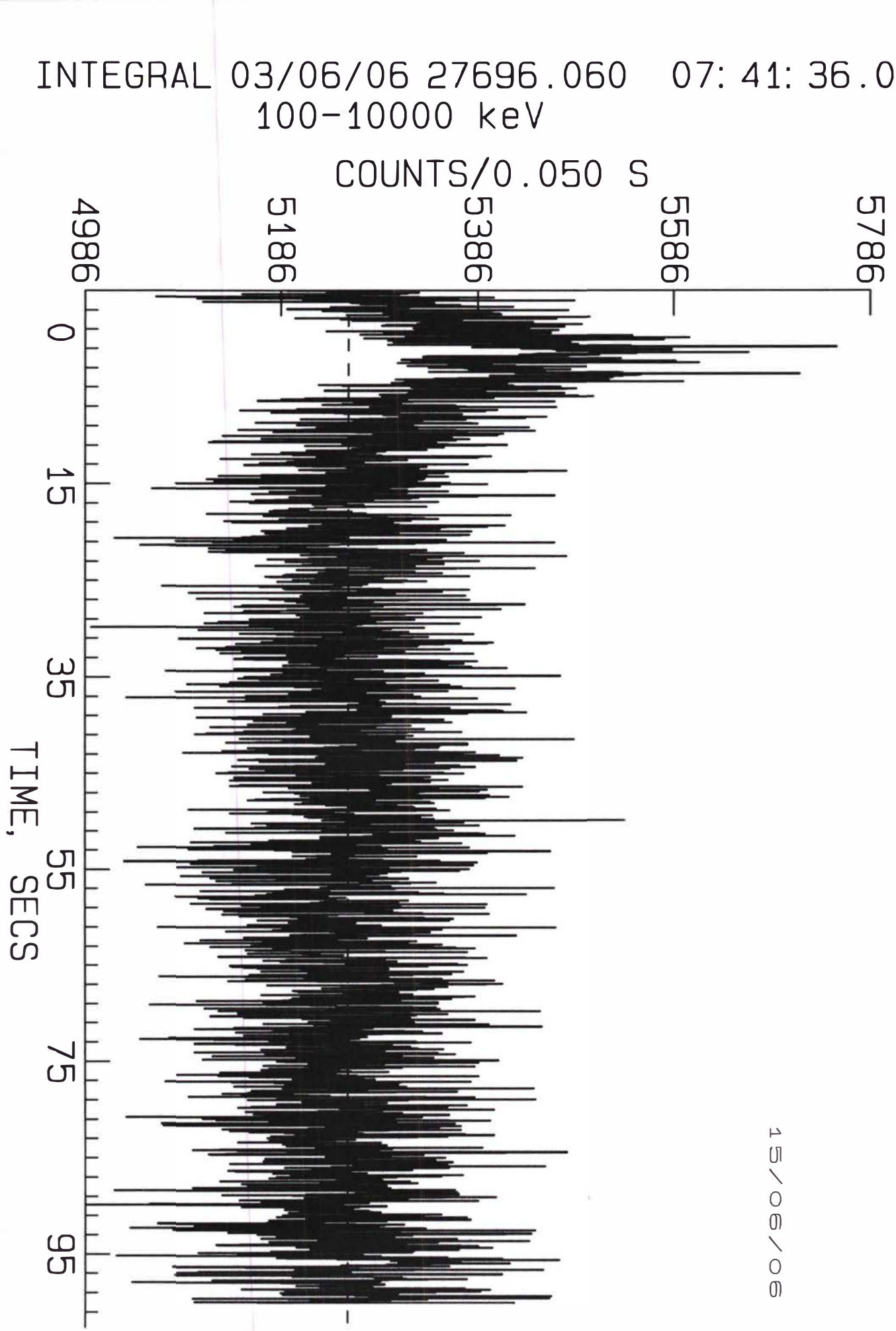
Chan 1 : [15 - 50 keV] Channel 1 + 4200

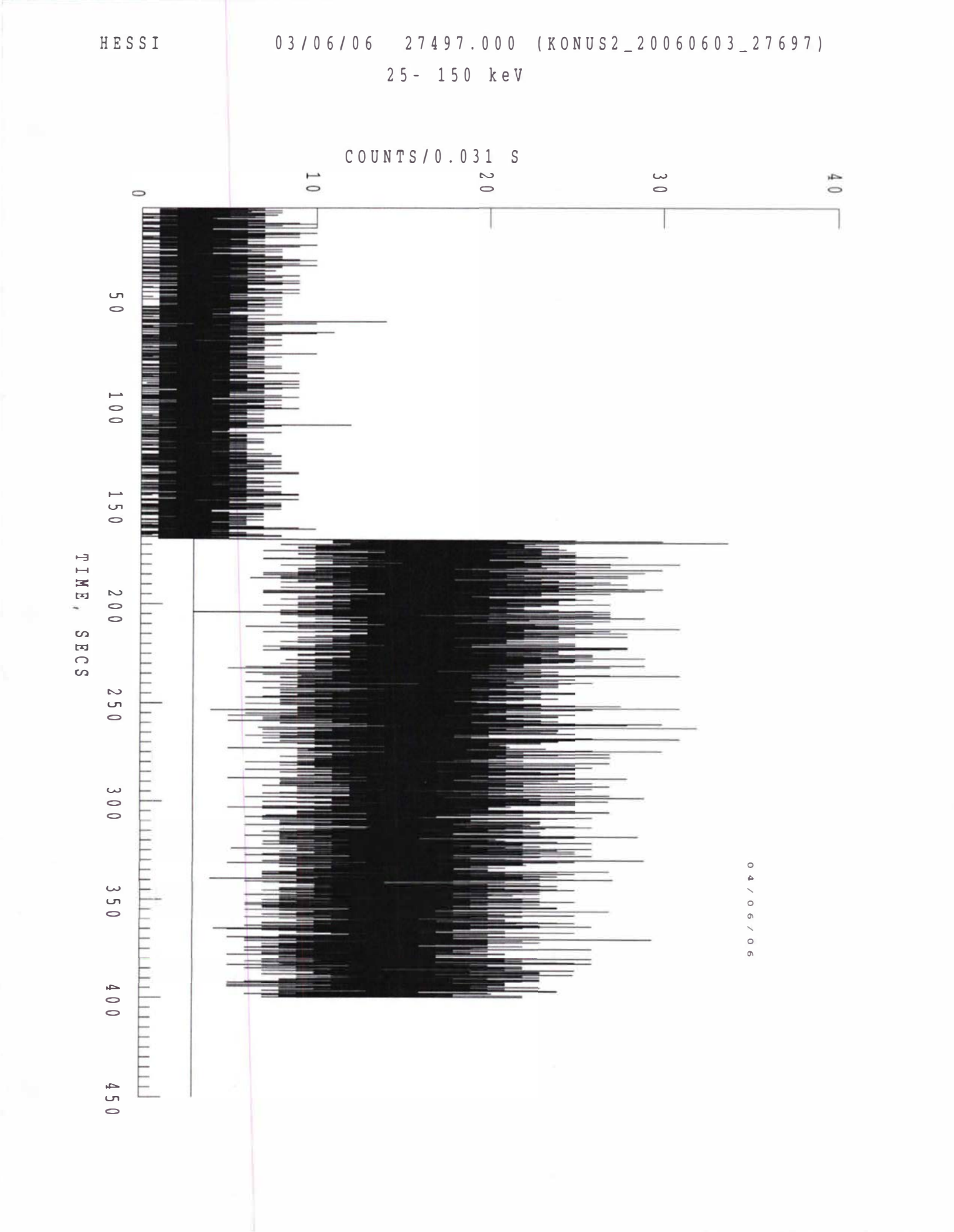
Chan 2 : [50 - 200 keV] Channel 2 + 2800

Chan 3 : [200 - 770 keV] Channel 3 + 1400

Chan 4 : [> 10 MeV] Channel 4 + 0




INTEGRAL 03/06/06 27696.060 07: 41: 36.0
100-10000 keV
COUNTS/0.050 S
4986
5186
5386
5586
5786
0
15
35
55
75
95
TIME, SECS
15/06/06

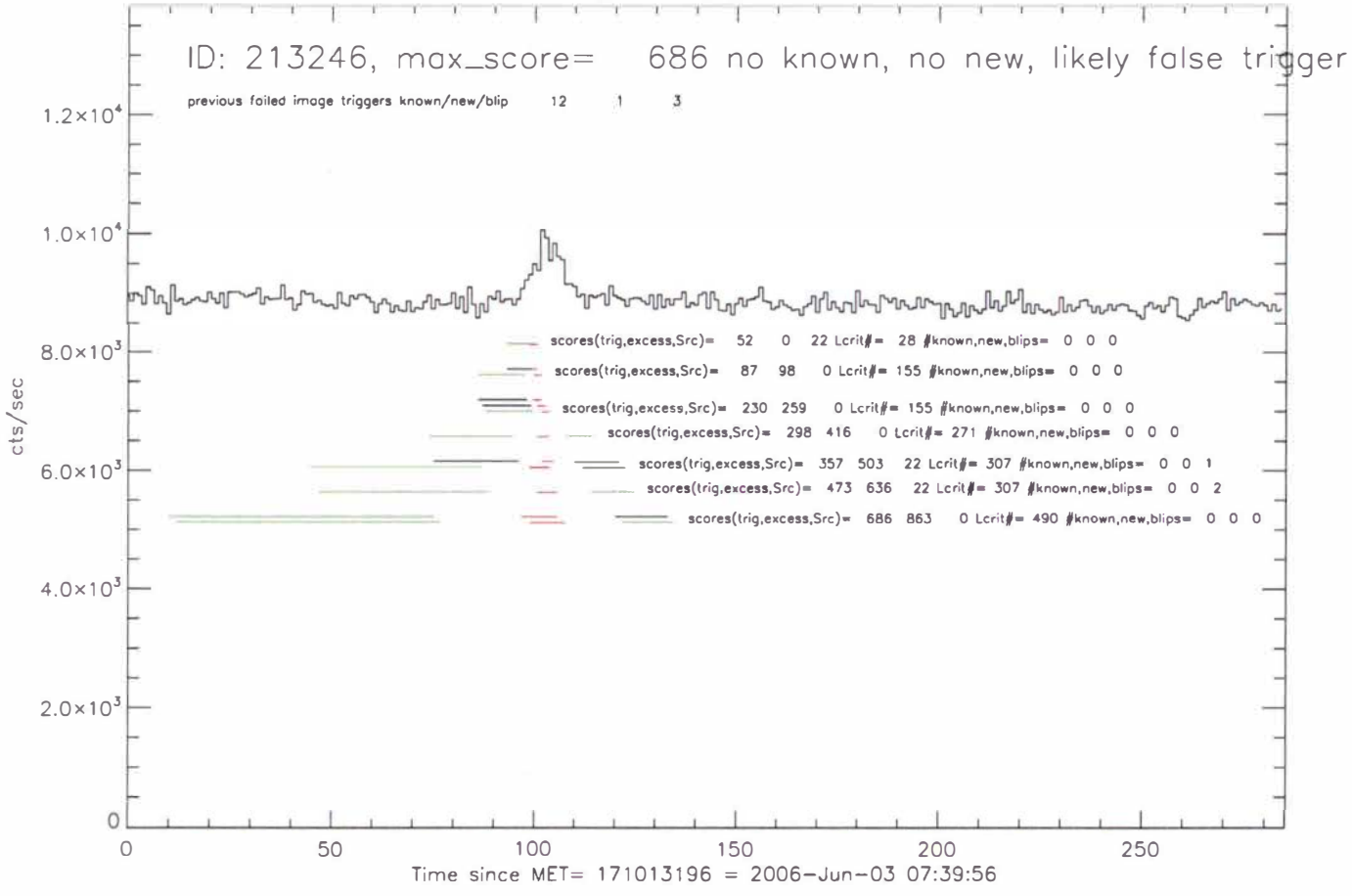

HESSI
03/06/06 27497.000 (KONUS2_20060603_27697)
25- 150 keV
COUNTS/0.031 S
0
10
20
30
40
50
100
150
200
250
300
350
400
450
TIME, SECS
04/06/06

SWIFT

03/06/06 27695.087
25- 350 keV

12/ 6/ 6

Swift


ID: 213246, max_score= 686 no known, no new, likely false trigger
previous failed image triggers known/new/blip 12 1 3
scores(trig,excess,Src)= 52 0 22 Lcrit#= 28 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 87 98 0 Lcrit#= 155 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 230 259 0 Lcrit#= 155 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 298 416 0 Lcrit#= 271 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 357 503 22 Lcrit#= 307 #known,new,blips= 0 0 1
scores(trig,excess,Src)= 473 636 22 Lcrit#= 307 #known,new,blips= 0 0 2
scores(trig,excess,Src)= 686 863 0 Lcrit#= 490 #known,new,blips= 0 0 0
cts/sec
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
0
50
100
150
200
250
Time since MET= 171013196 = 2006-Jun-03 07:39:56

From yamaoka@phys.aoyama.ac.jp Sun Jun 4 17:03:53 2006
X-ASG-Debug-ID: 1149465851-09bd00780000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: scmailgw2.scop.aoyama.ac.jp[133.2.251.195]
X-Barracuda-Start-Time: 1149465851
To: val@mail.ioffe.ru
Cc: khurley@ssl.berkeley.edu, jayc@milkyway.gsfc.nasa.gov,
        roland@space.mit.edu, ohno@hirax7.hepl.hiroshima-u.ac.jp,
        krimm@milkyway.gsfc.nasa.gov, golen@mail.ioffe.ru
Cc: news-hxd-ipn@amalthea.phys.s.u-tokyo.ac.jp, yamaoka@phys.aoyama.ac.jp
X-ASG-Orig-Subj: Re: long soft GRB detected by Konus-Wind on June 3
Subject: Re: long soft GRB detected by Konus-Wind on June 3
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
Date: Mon, 05 Jun 2006 09:02:45 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
X-Dispatcher: imput version 20000228(IM140)
X-Barracuda-Bayes: INNOCENT GLOBAL 0.0027 1.0000 -2.0035
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-Barracuda-Spam-Report: Code version 3.02, rules version 3.0.14132
        Rule breakdown below pts rule name   description
        ---- ---------------------- --

Dear Valentin,

We cannot find any increase in the WAM data.

Best regards,
Kazu
on behalf of the WAM team

From: "val" <val@mail.ioffe.ru>
Subject: long soft GRB detected by Konus-Wind on June 3
Date: Mon, 5 Jun 2006 01:32:49 +0400
Message-ID: <001901c6881e$70e77050$a6e055c2@home>

> Dear colleagues,
>
> A long soft GRB triggered Konus-Wind
> at 2006-06-03 T0=27697.571 s UT (07:41:37.571).
> The burst light curve shows the main pulse with a duration of ~12 sec
> and additional weaker softer pulses seen up to ~T0+55 sec.
> The source of the burst is in the north ecliptic hemisphere
> near the north ecliptic pole.
> The burst is rather unusual for the Konus-Wind GRBs:
> 1) there is no emission in the G3 energy range (300-1160 keV), i.e.
> for the main pulse the G3/G2 ratio is ~0.02 +/- 0.02.
> 2) There is no emission in S1 detector, i.e. S1/S2 ratio is near 0.
>
> Any other detections?
>
>
> Best wishes,

  Valentin
>
>

From dsmith@scipp.ucsc.edu Fri Jul 7 21:25:14 2006
X-ASG-Debug-ID: 1152332751-142e00270000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
-Barracuda-Connect: scipp.ucsc.edu[128.114.130.20]
-Barracuda-Start-Time: 1152332751
X-ASG-Whitelist: Sender
Date: Fri, 7 Jul 2006 21:23:59 -0700 (PDT)
From: David Smith <dsmith@scipp.ucsc.edu>
To: khurley@ssl.berkeley.edu
cc: mccarthy@ess.washington.edu
X-ASG-Orig-Subj: Sweden plots (fwd)
Subject: Sweden plots (fwd)
MIME-Version: 1.0
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

Hi, Kevin,
Know of any GRB at this time?
Thanks very much,
David

---------- Forwarded message ----------
Date: Fri, 7 Jul 2006 17:12:51 -0700 (PDT)
From: Michael McCarthy <mccarthy@ess.washington.edu>
To: George Parks <parks@ssl.berkeley.edu>
Cc: David Smith <dsmith@scipp.ucsc.edu>,
Robyn M. Millan <Robyn.M.Millan@Dartmouth.EDU>,
Michael Kokorowski <mkoko@ess.washington.edu>,
Bob Holzworth <bobholz@ess.washington.edu>,
John Glen Sample <jsample@ssl.berkeley.edu>,
Leslie A. Woodger <Leslie.A.Woodger@Dartmouth.EDU>
Subject: Sweden plots

Robyn has cleaned the data from the Sweden flight, and I have taken
a quick look at the x-ray fluxes. Some new plots are available at

http://www.ess.washington.edu/Space/SpaceExp/Balloon/Sweden06/

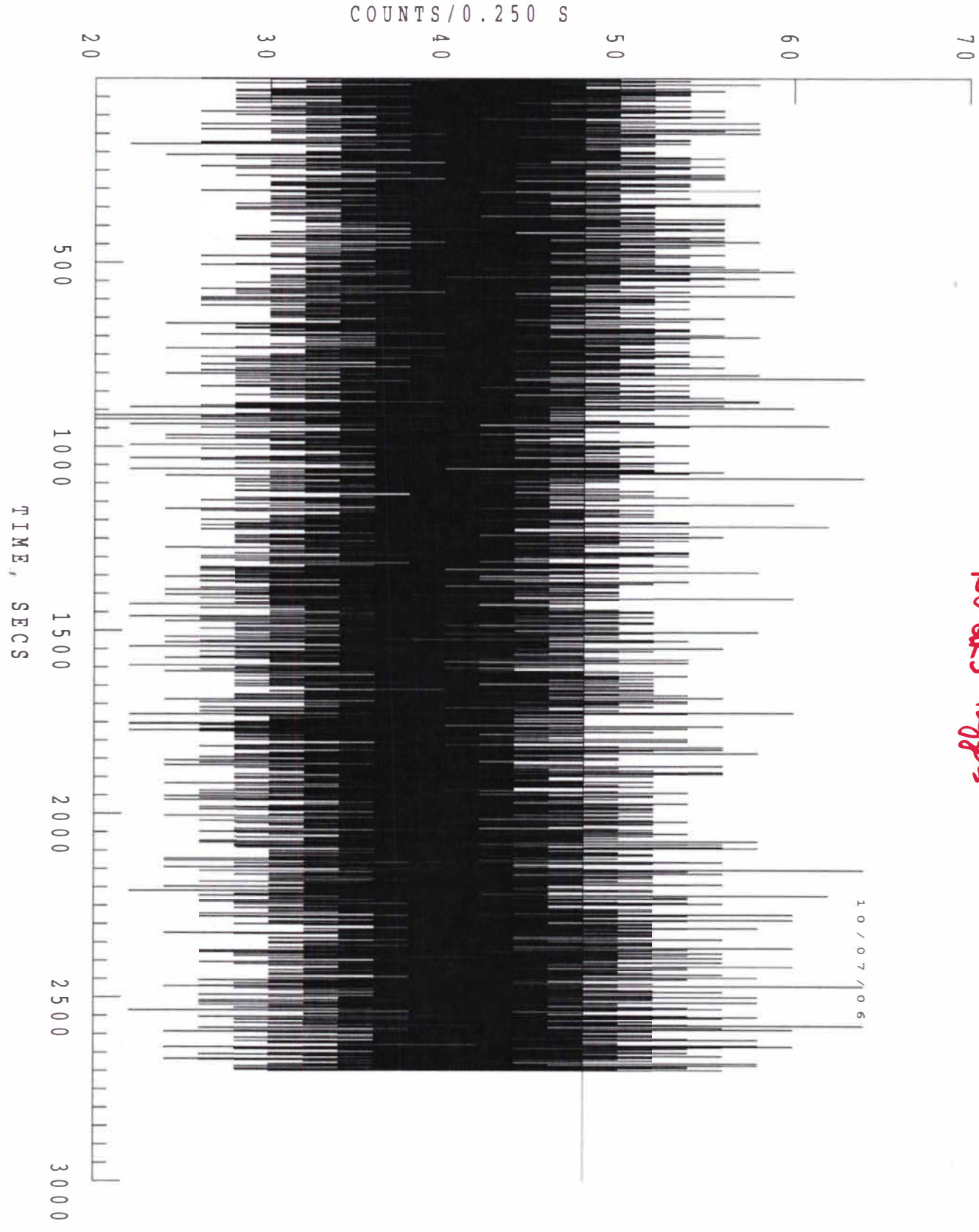
It looks like there was activity during the ascent and some isolated
events in the middle of the flight.

On 3Jun at about 22:13 something curious happened. It's either noise, such
as a HV discharge, or an unusual quick burst of radiation.

--Michael

MS01 03/06/06 78606.345

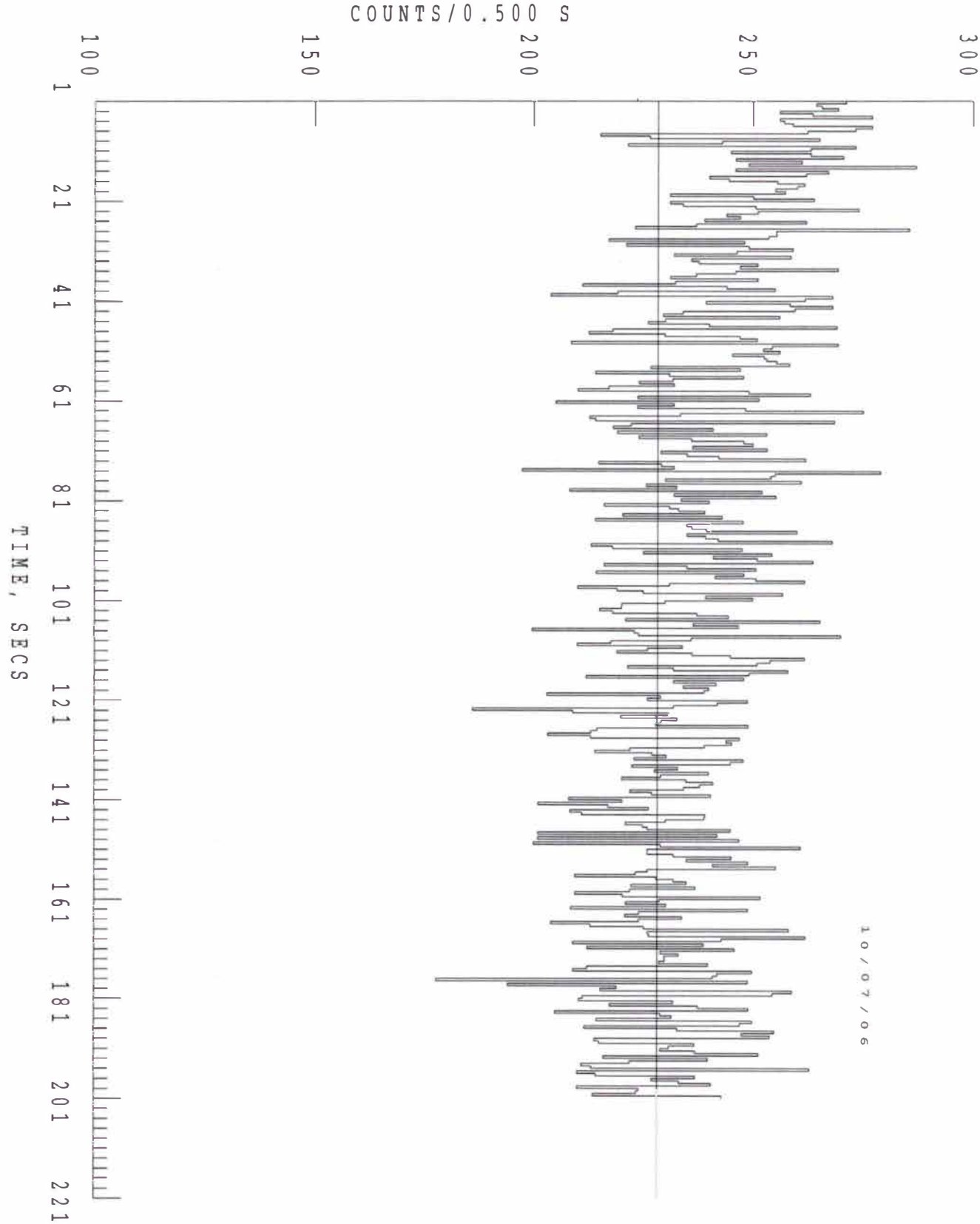
50- 3000 keV

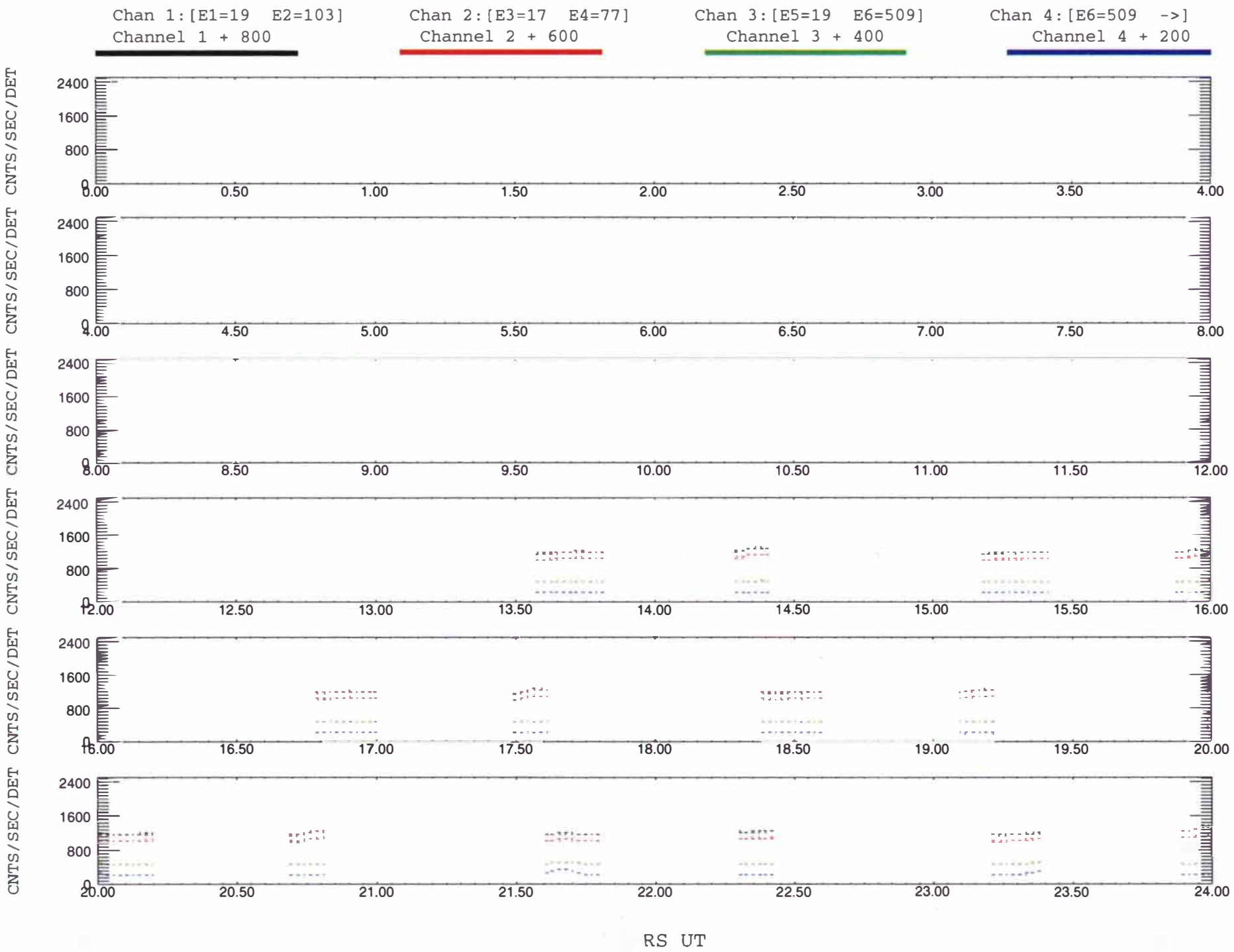


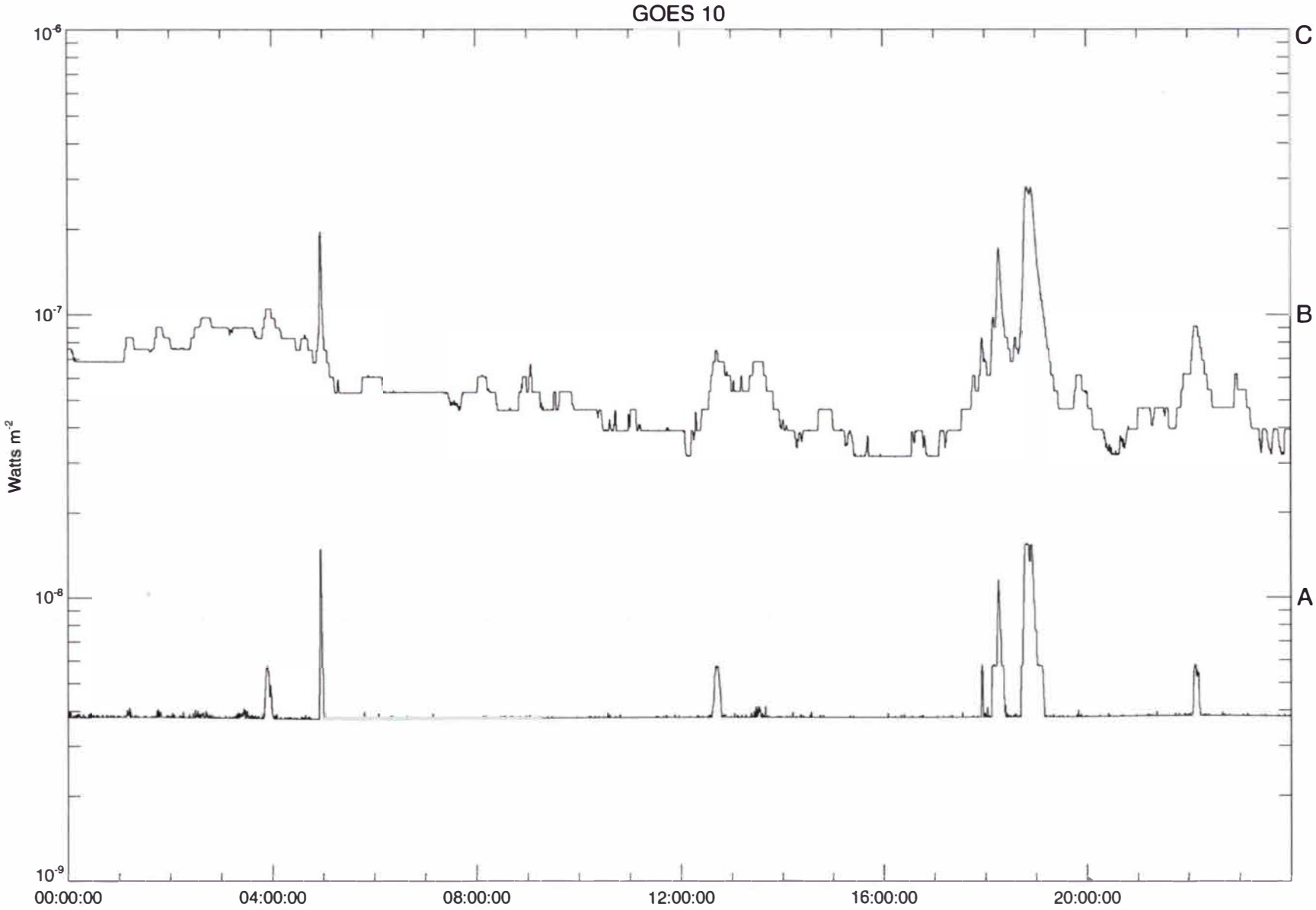
NO GRS triggers

HESSI 03/06/06 79879.000 (balloon_20060603_79980)

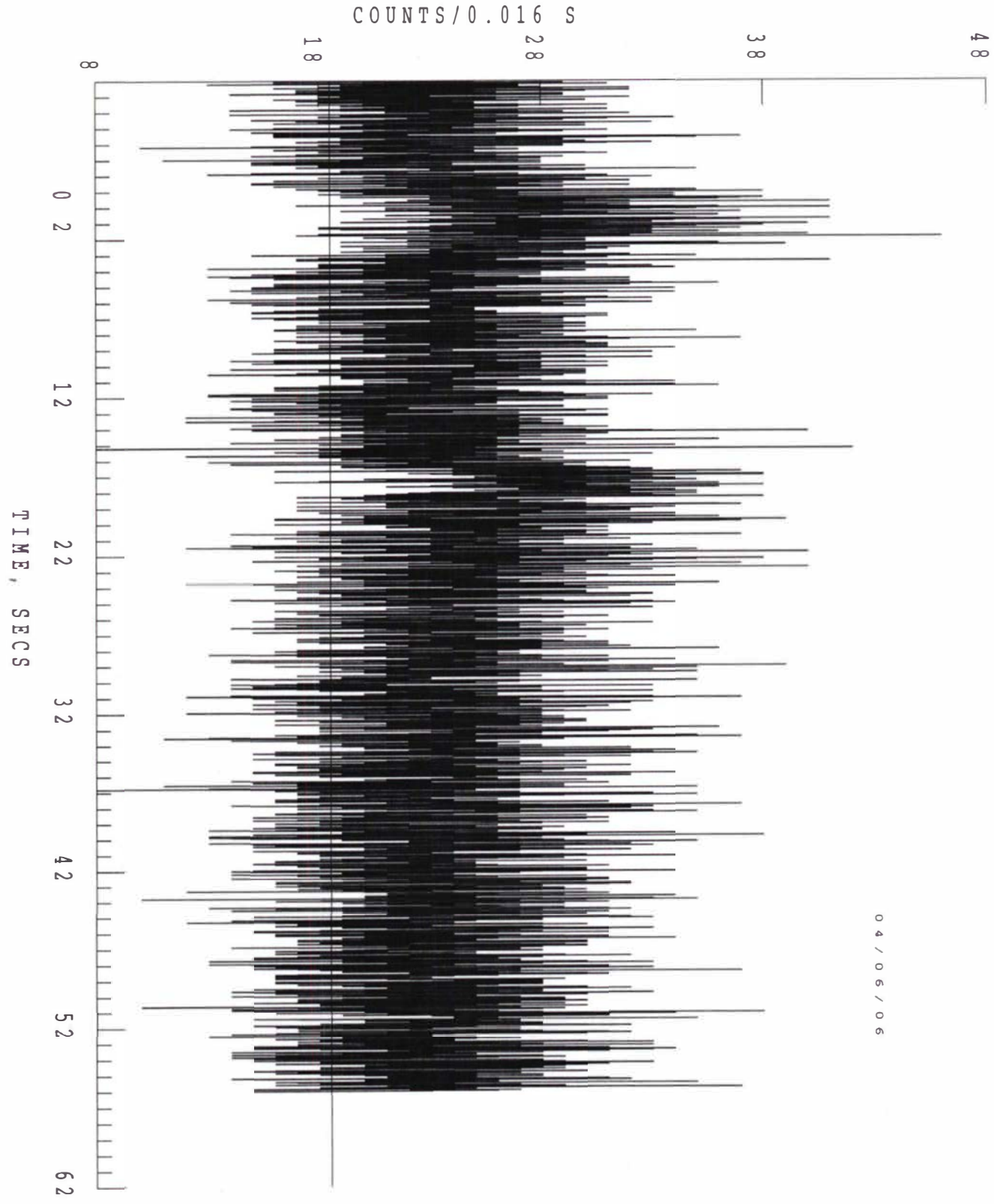
25- 150 keV



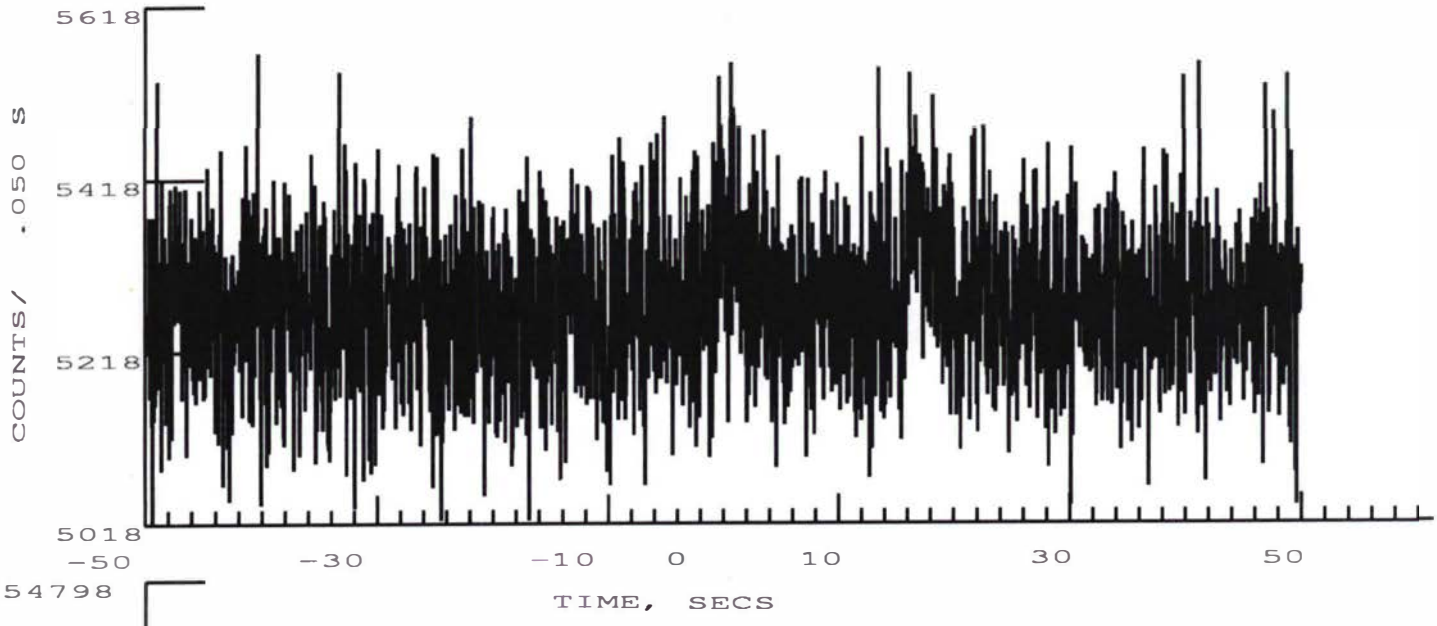

FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED
03/06/06 DOY 154 Julian 2453890.50000 [est. sct = 0019 d2ed 8ff8 950d]
Chan 1:[E1=19 E2=103]
Channel 1 + 800
Chan 2:[E3=17 E4=77]
Channel 2 + 600
Chan 3:[E5=19 E6=509]
Channel 3 + 400
Chan 4:[E6=509 ->]
Channel 4 + 200
CNTS/SEC/DET
2400
1600
800
0
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.00
8.50
9.00
9.50
10.00
10.50
11.00
11.50
12.00
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00
16.00
16.50
17.00
17.50
18.00
18.50
19.00
19.50
20.00
20.00
20.50
21.00
21.50
22.00
22.50
23.00
23.50
24.00
RS UT

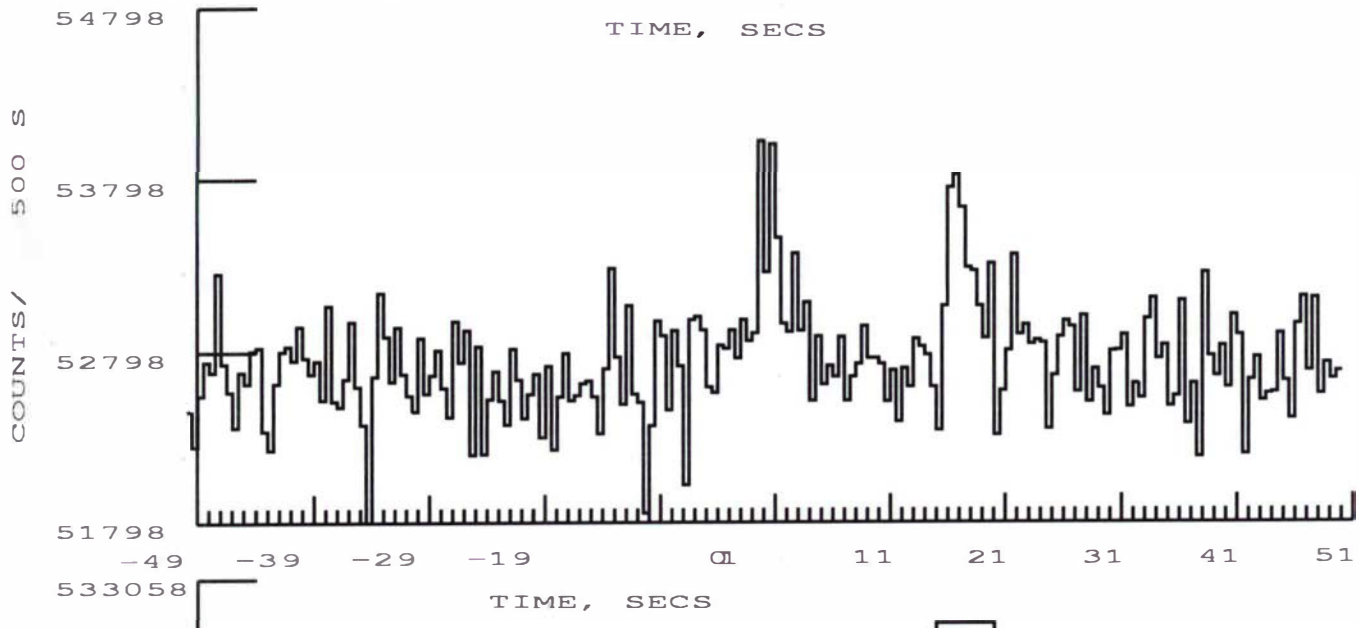


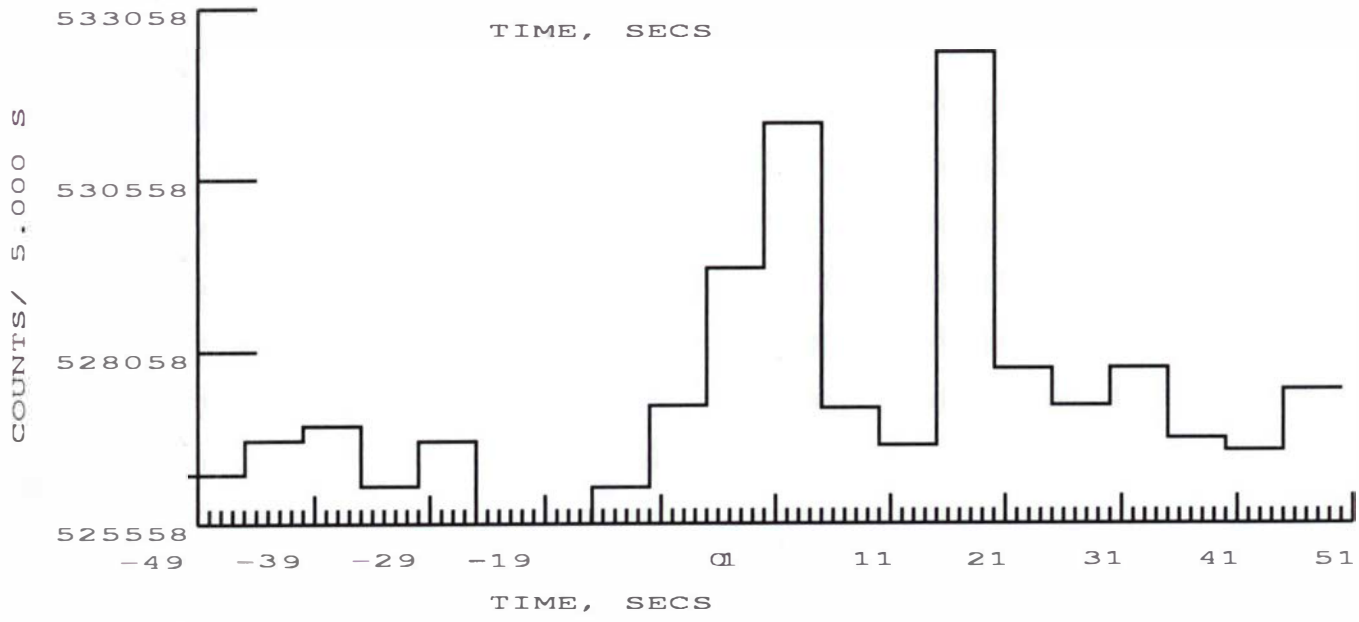
Data Start: 06/06/03, 0000:00 Plot created: 06/06/06, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10


SUZAKU
04/06/06
11706.641
50- 240 keV
03:15:06
COUNTS/0.016 S
8
18
28
38
48
0
2
12
22
32
42
52
62
TIME, SECS
04/06/06

INTEGRAL 04/06/06 11706.000 03:15:06.0 11/07/14

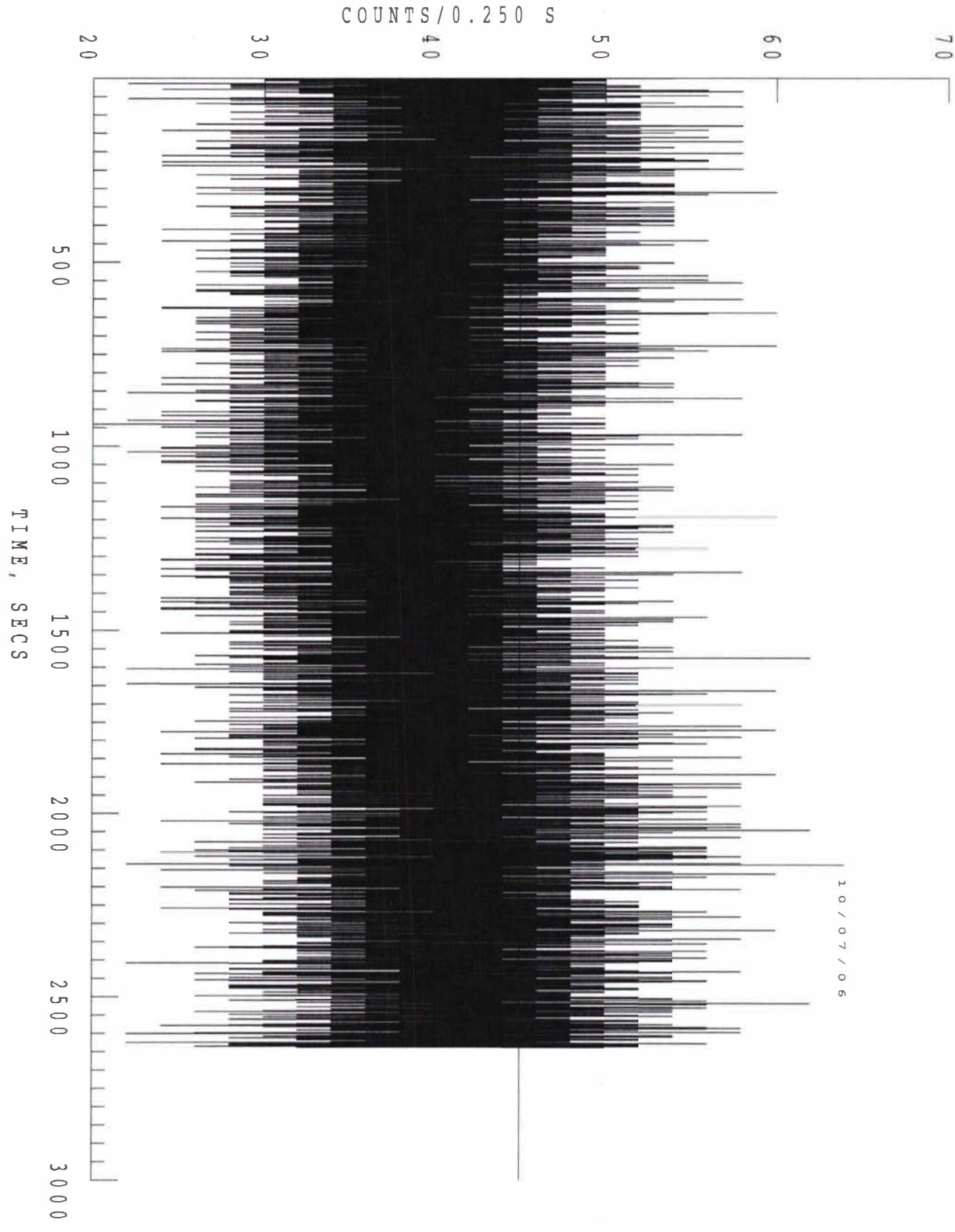


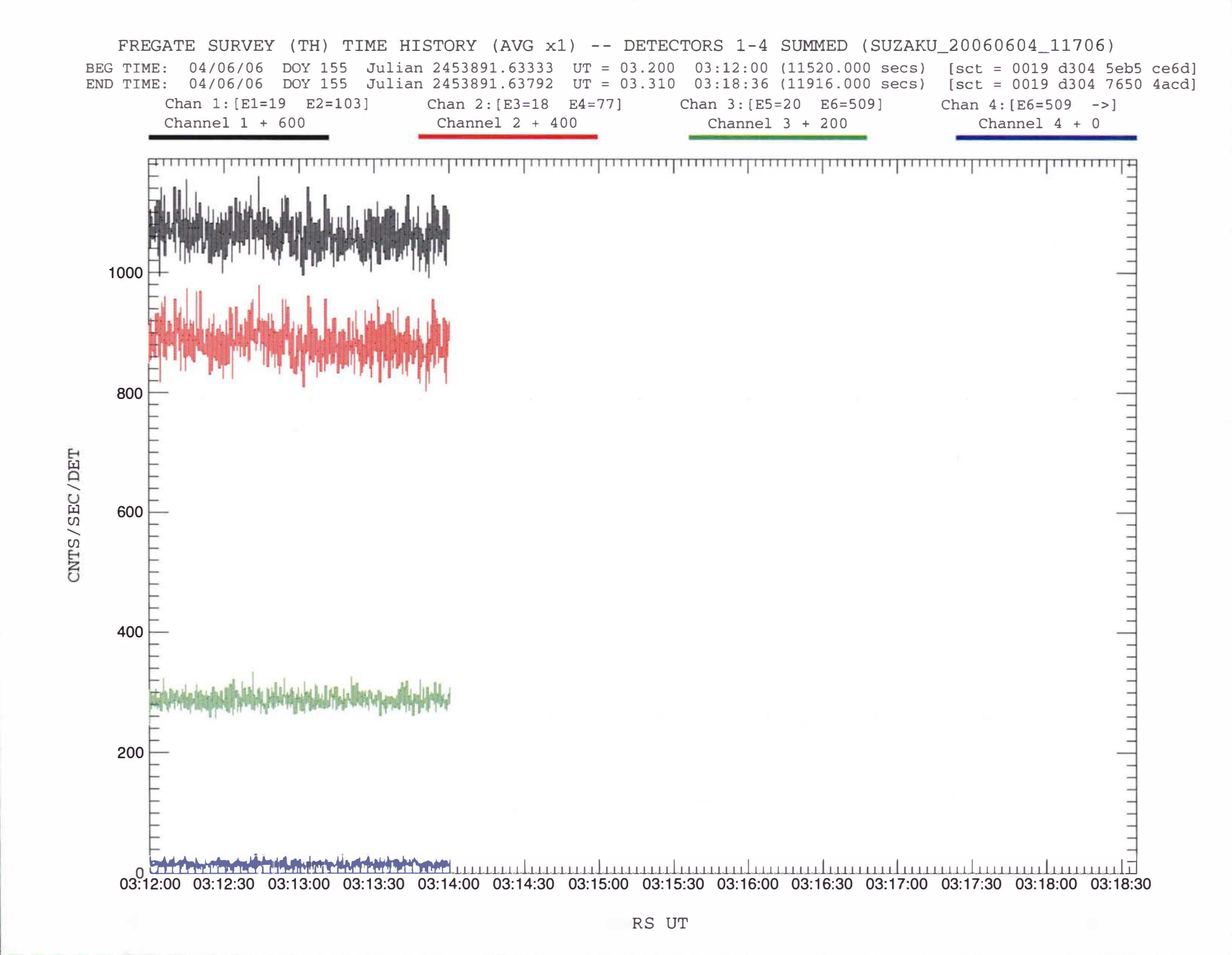




MS01 04/06/06 10386.018

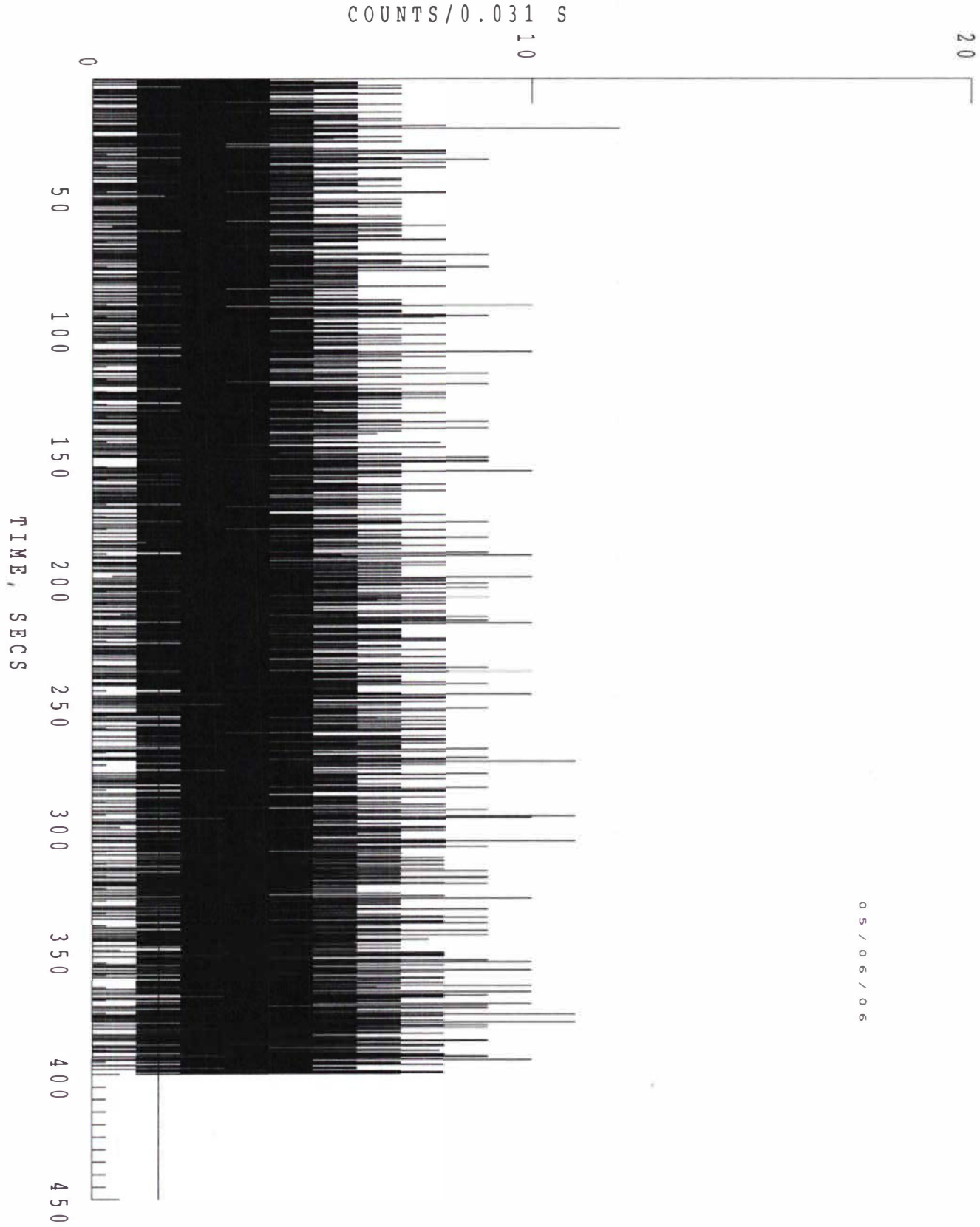
50- 3000 keV

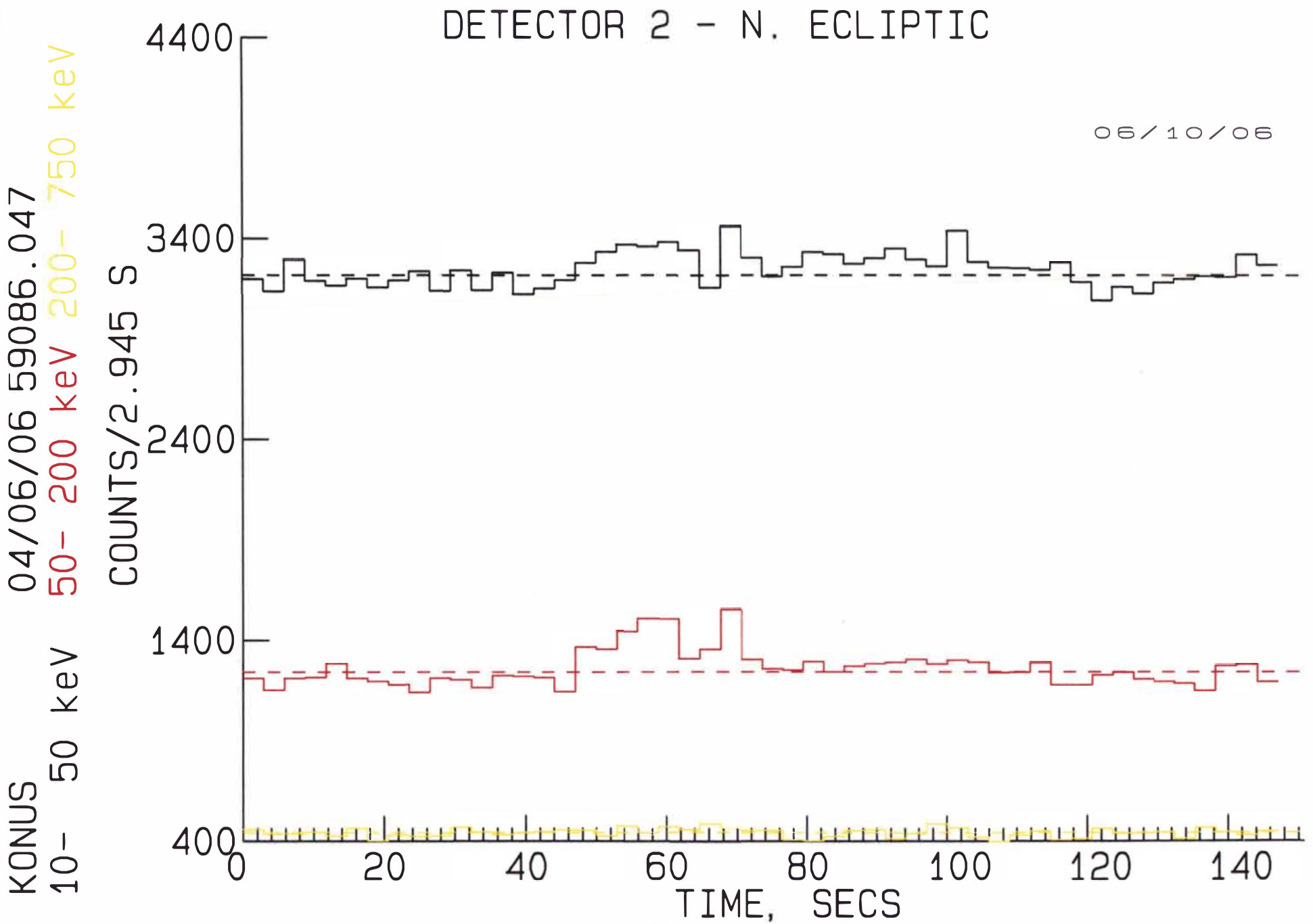



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (SUZAKU_20060604_11706)
BEG TIME: 04/06/06 DOY 155 Julian 2453891.63333 UT = 03.200 03:12:00 (11520.000 secs) [sct = 0019 d304 5eb5 ce6d]
END TIME: 04/06/06 DOY 155 Julian 2453891.63792 UT = 03.310 03:18:36 (11916.000 secs) [sct = 0019 d304 7650 4acd]
Chan 1:[E1=19 E2=103]
Channel 1 + 600
Chan 2:[E3=18 E4=77]
Channel 2 + 400
Chan 3:[E5=20 E6=509]
Channel 3 + 200
Chan 4:[E6=509 ->]
Channel 4 + 0
CNTS/SEC/DET
0
200
400
600
800
1000
03:12:00
03:12:30
03:13:00
03:13:30
03:14:00
03:14:30
03:15:00
03:15:30
03:16:00
03:16:30
03:17:00
03:17:30
03:18:00
03:18:30
RS UT

HESSI 04/06/06 11506.000 (SUZAKU_20060604_11706)

25- 150 keV




DETECTOR 2 - N. ECLIPTIC
06/10/06
KONUS
10- 50 keV
50- 200 keV
200- 750 keV
04/06/06 59086.047
COUNTS/2.945 S
4400
3400
2400
1400
400
0
20
40
60
80
100
120
140
TIME, SECS

Date: June 28 2010

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

□ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

2. AGILE Data

□ 1 second timing error corrected?

3. MESSENGER Data

□ Coarse or fine oscillator?

□ 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)

□ 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

□ Σ 3Δt'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?

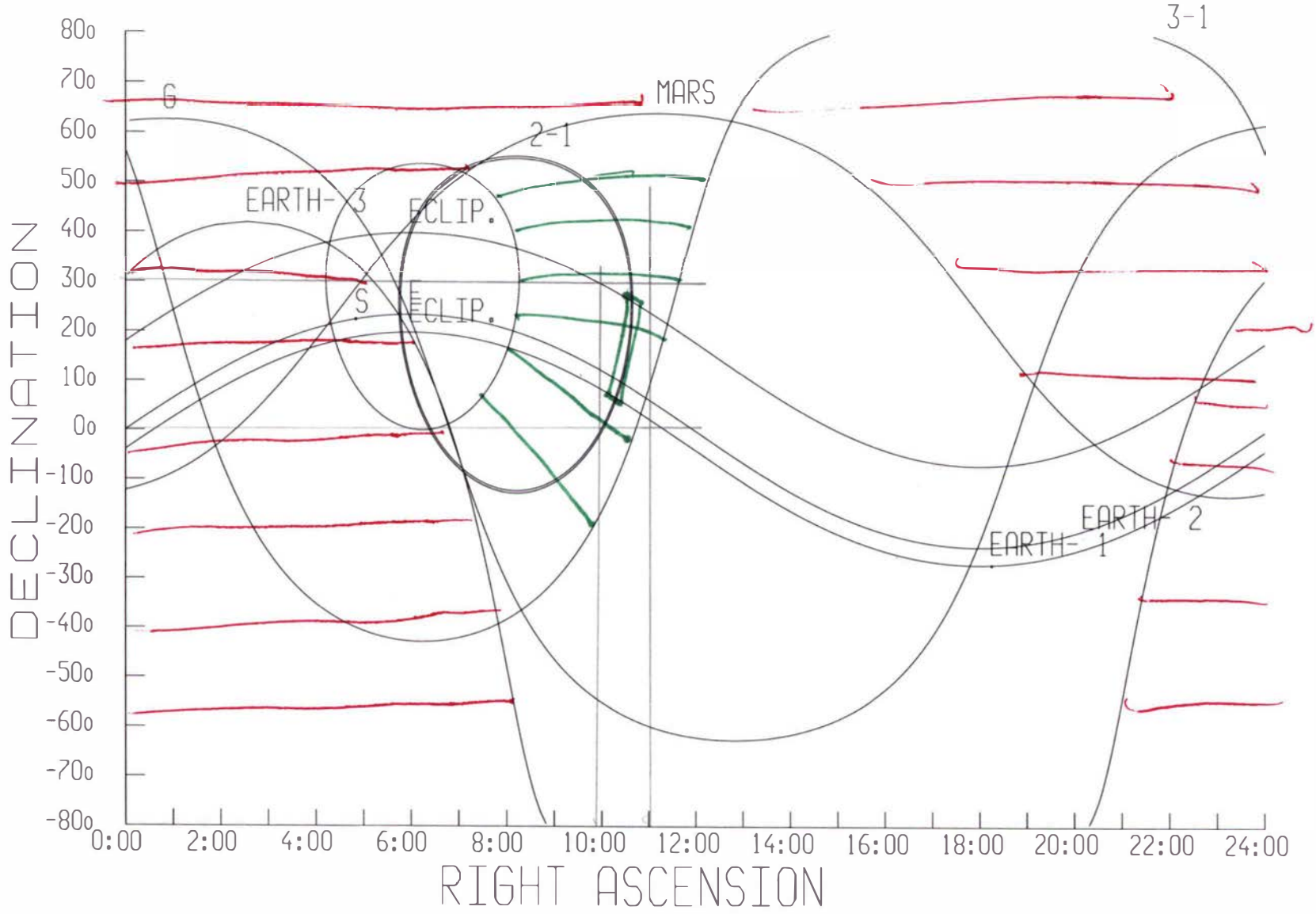
□ Updated ephemeris used for bursts prior to September 30, 2003?

☑ ACCESS and MBL4 databases updated, with identical times?

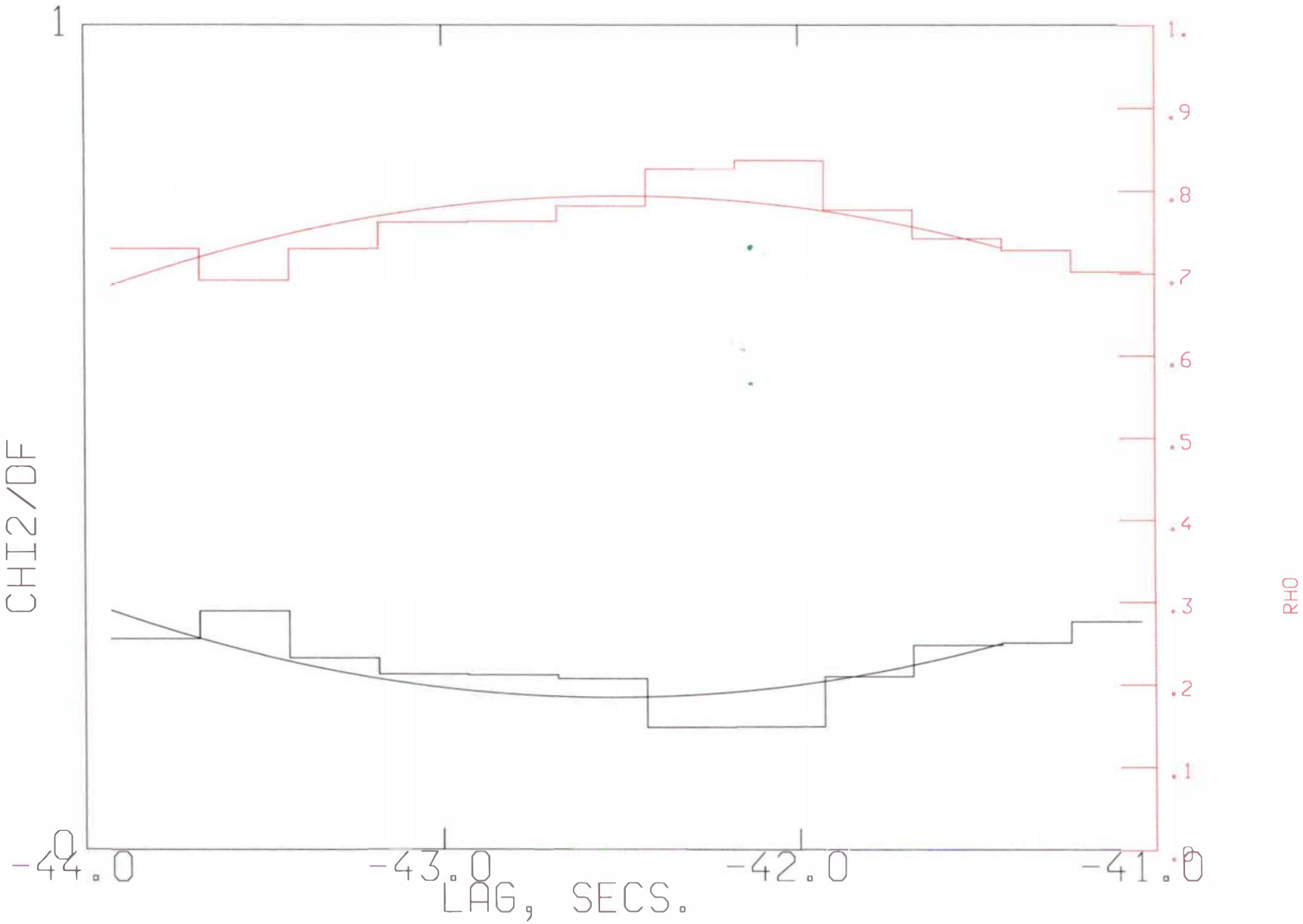
EVENT OF JUN 4, 2006 16:24

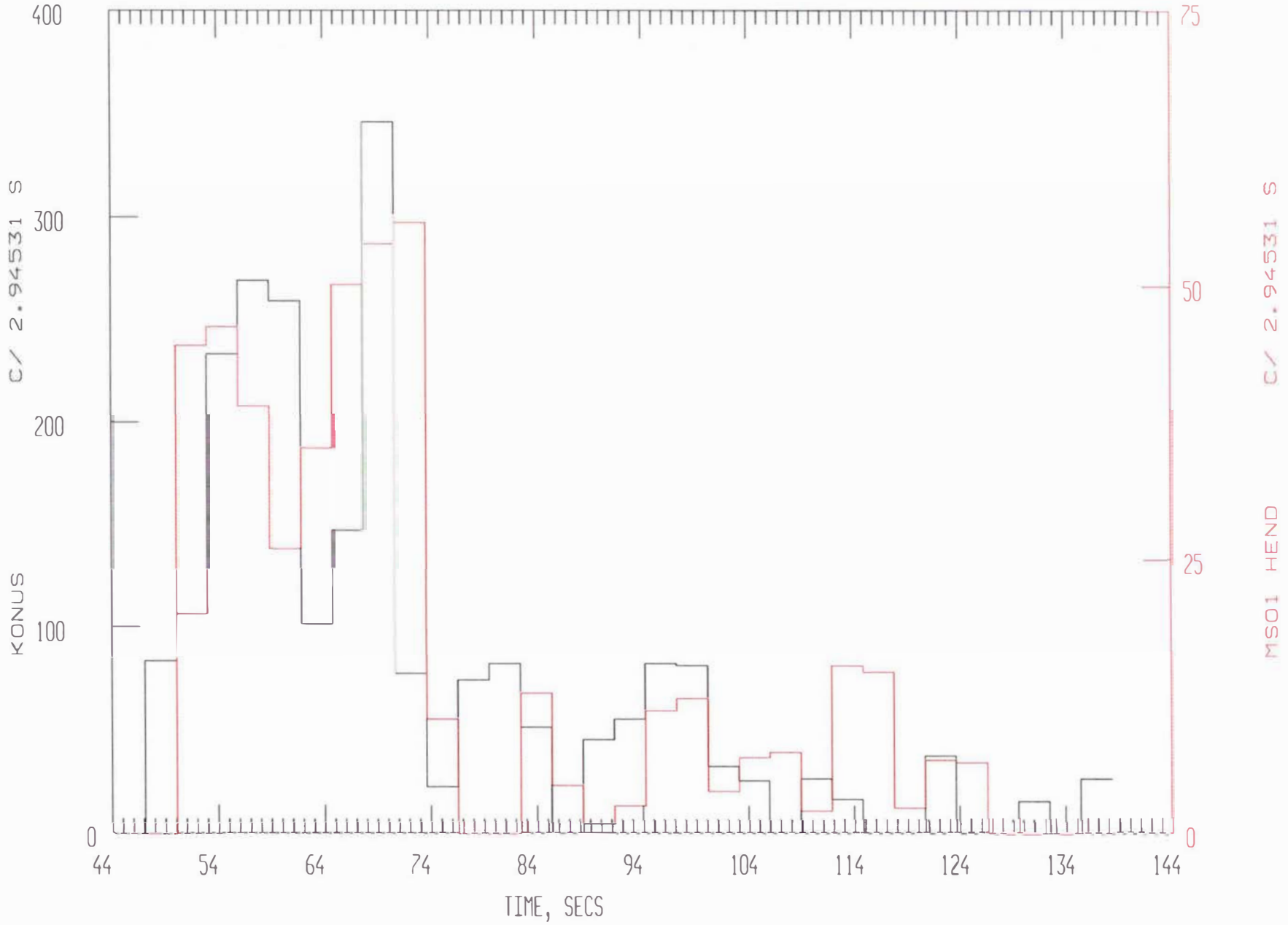
28/06/2010

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

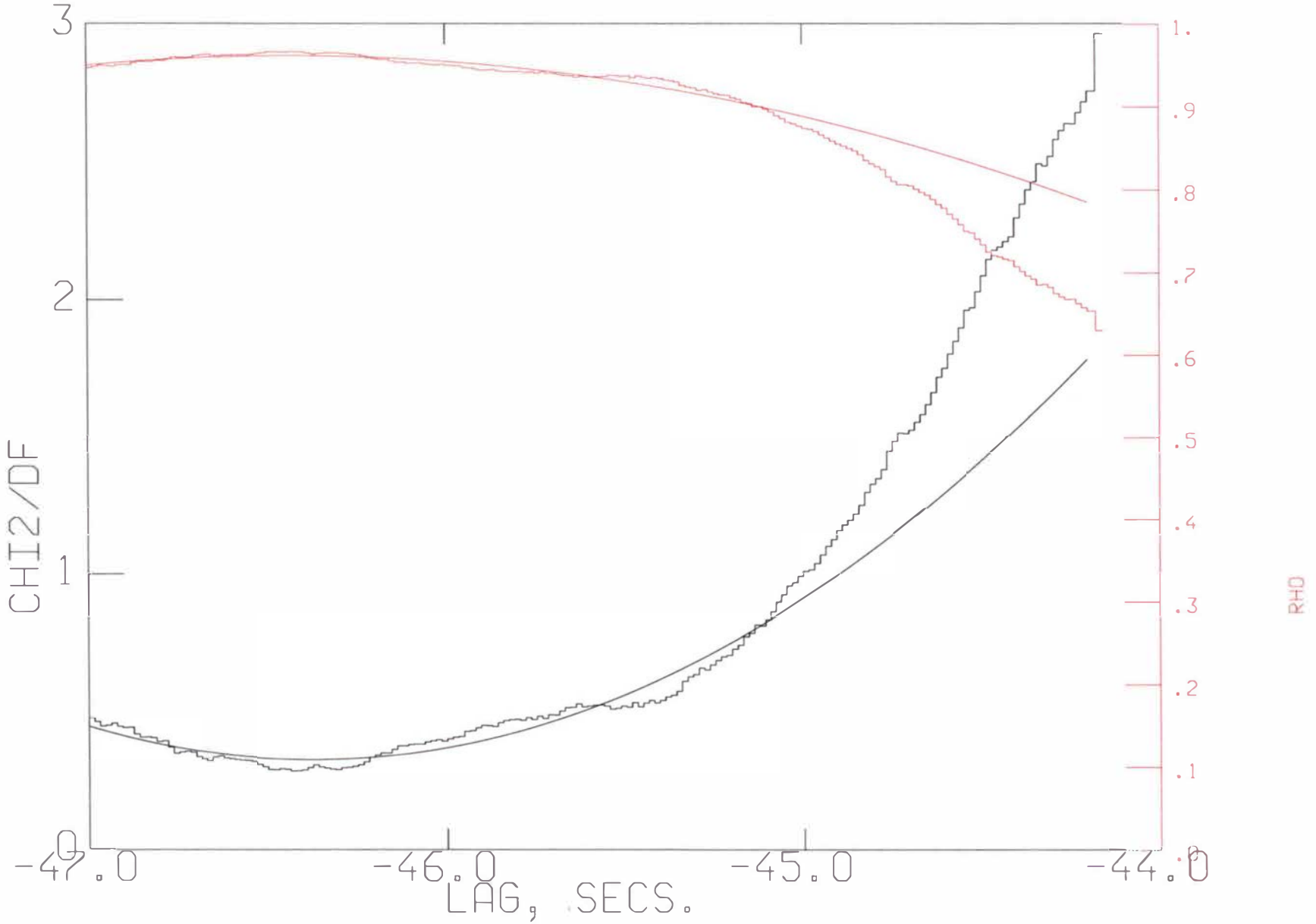


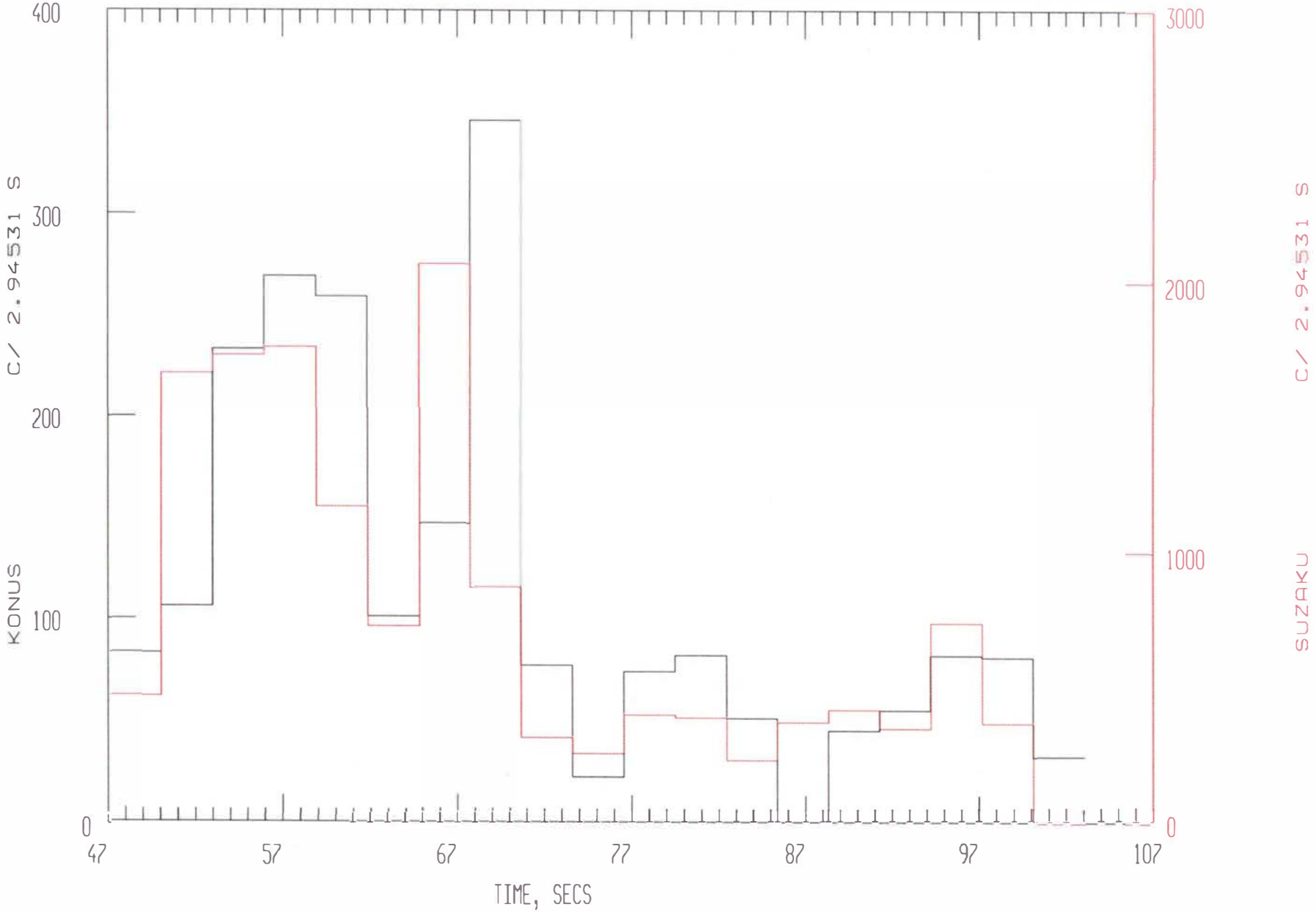
KONUS -MS01 HEND CORRELATION 04/06/06 59086.047




400
300
200
100
0
C/ 2.94531 S
KONUS
75
50
25
0
C/ 2.94531 S
MSO1 HEND
44
54
64
74
84
94
104
114
124
134
144
TIME, SECS

KONUS -SUZAKU CORRELATION 04/06/06 59086.047



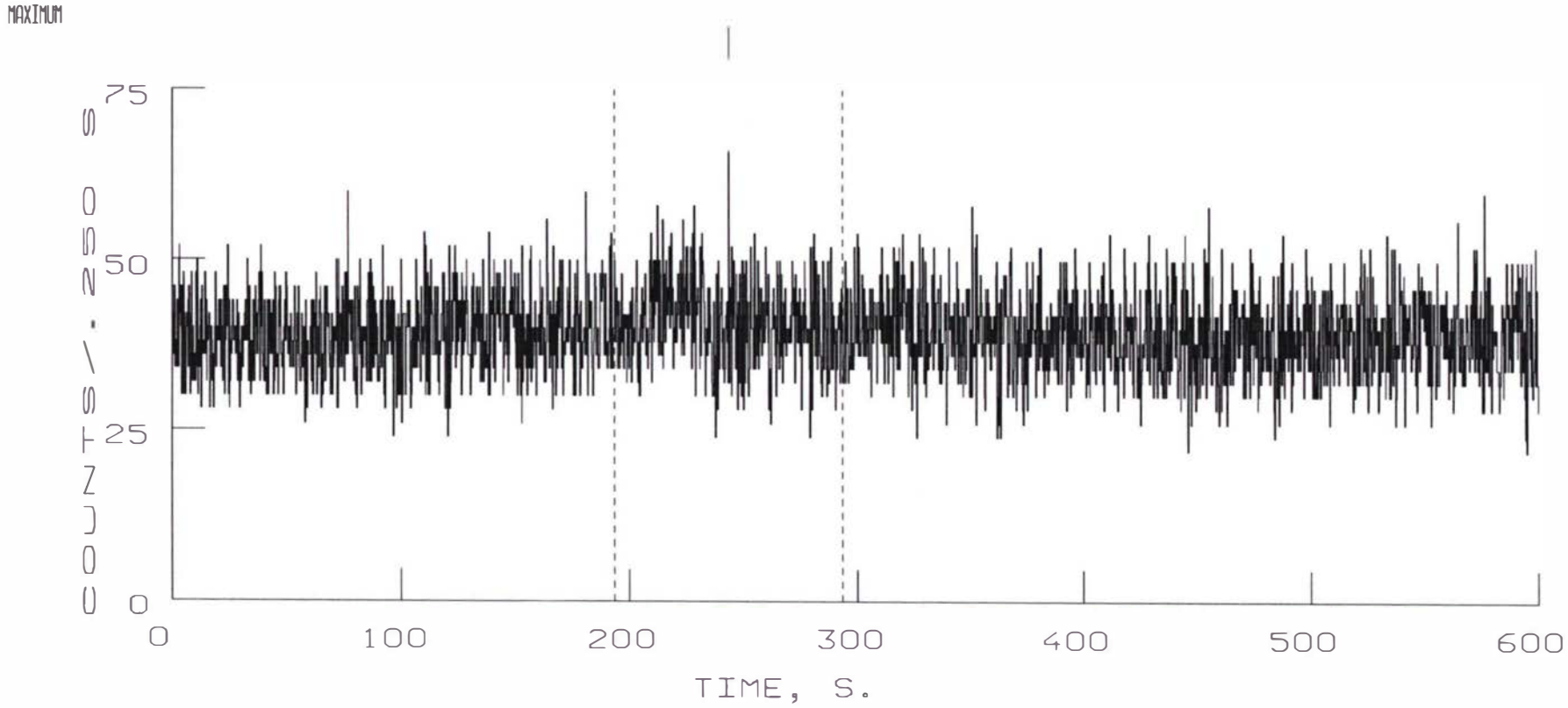

400
300
200
100
0
C/ 2.94531 S
KONUS
3000
2000
1000
0
C/ 2.94531 S
SUZAKU
47
57
67
77
87
97
107
TIME, SECS

MSO1 HEND

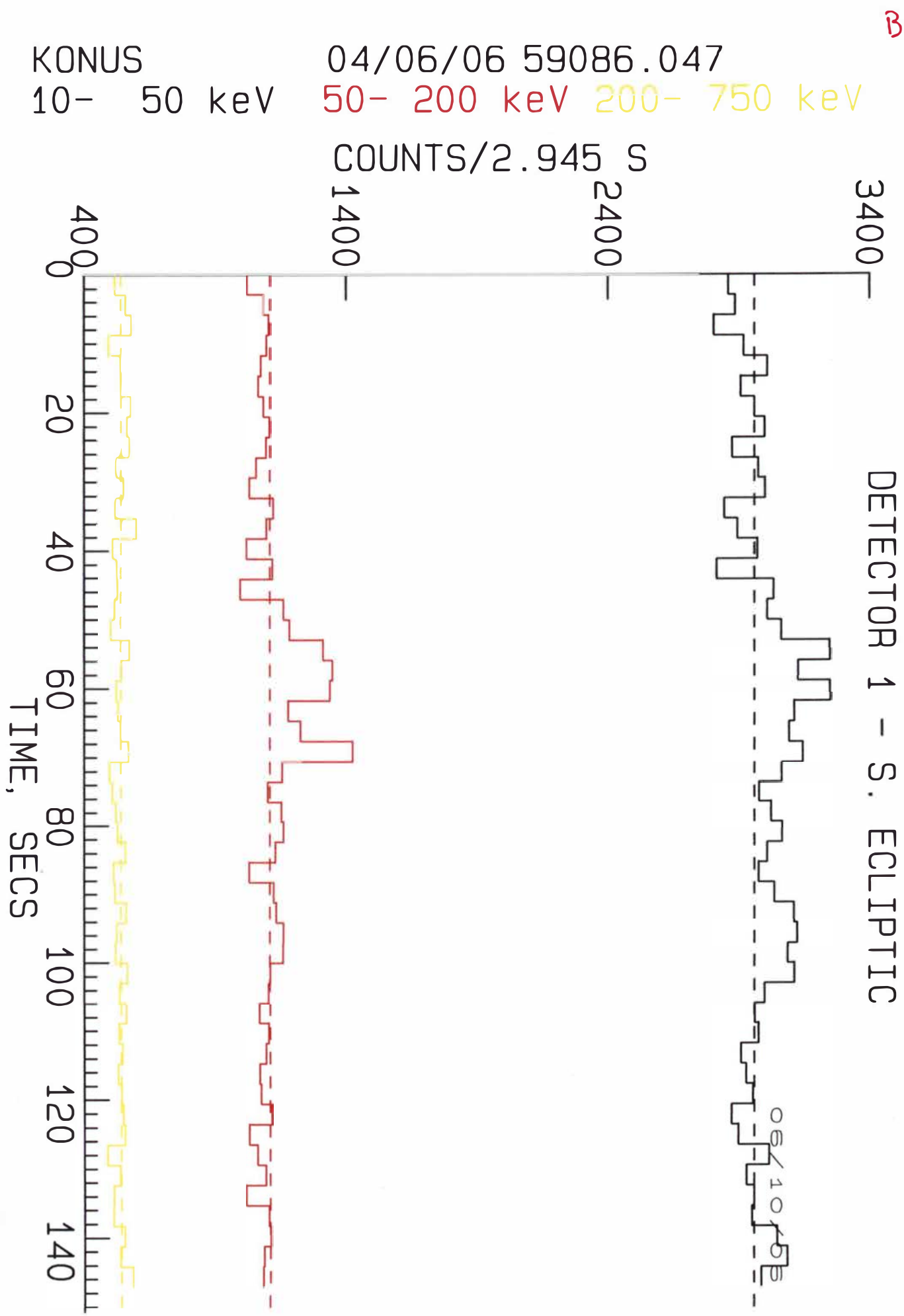
28/06/2010

04/06/2006 58025.152 s

50-3000 keV

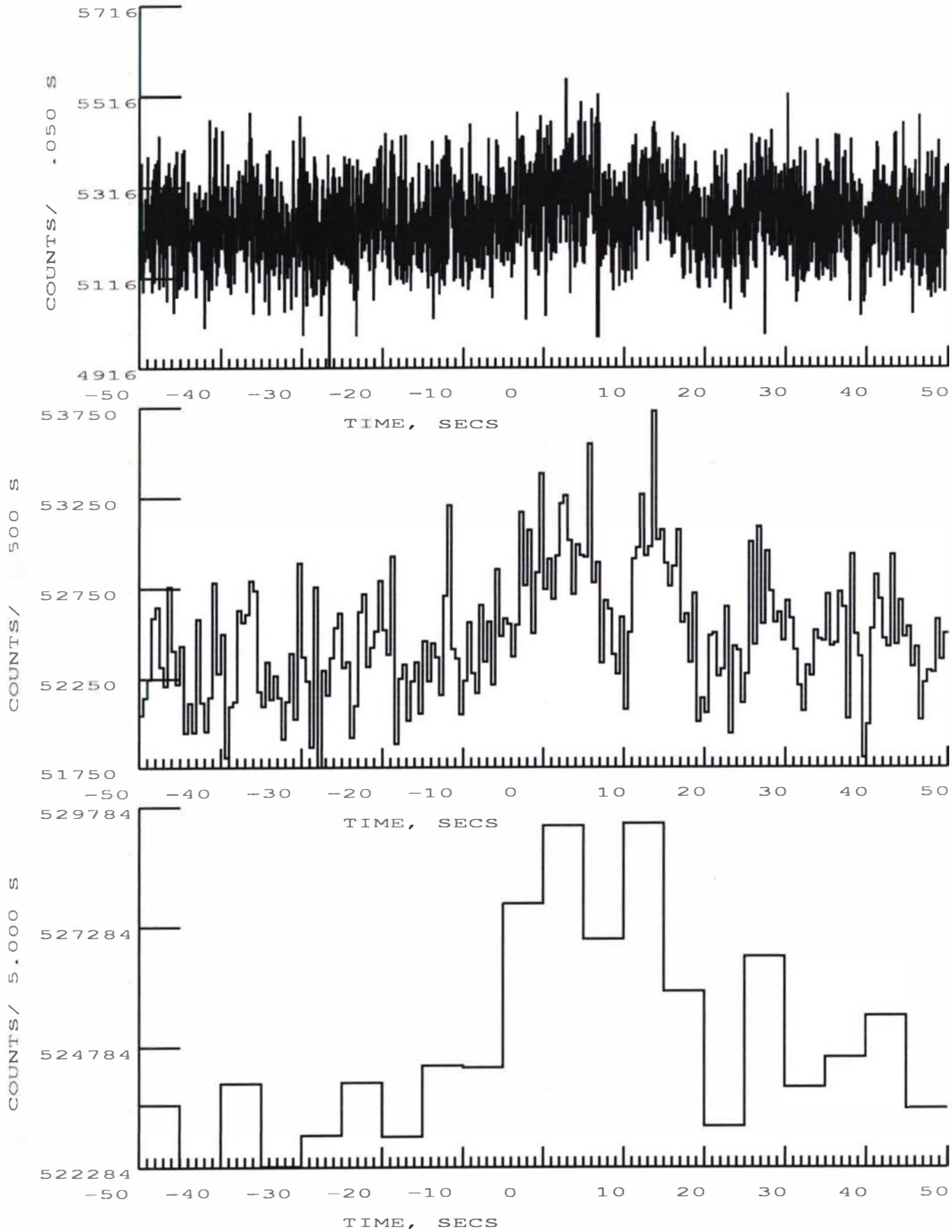


B


KONUS
04/06/06 59086.047
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.945 S
0
1400
2400
3400
0
20
40
60
80
100
120
140
TIME, SECS
DETECTOR 1 - S. ECLIPTIC
06/10/05

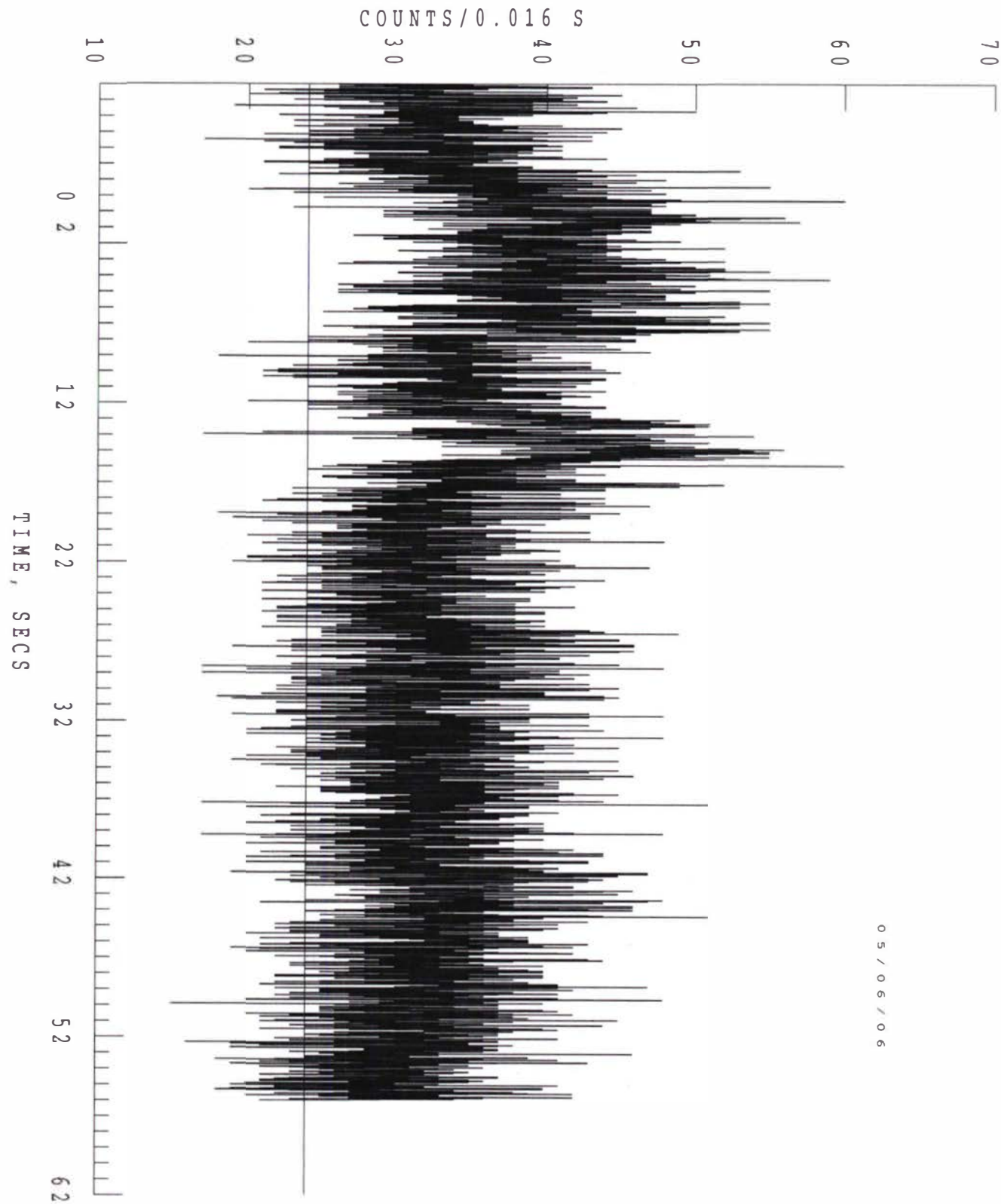
B

INTEGRAL 04/06/06 59144.000 16:25:44.0 11/07/14



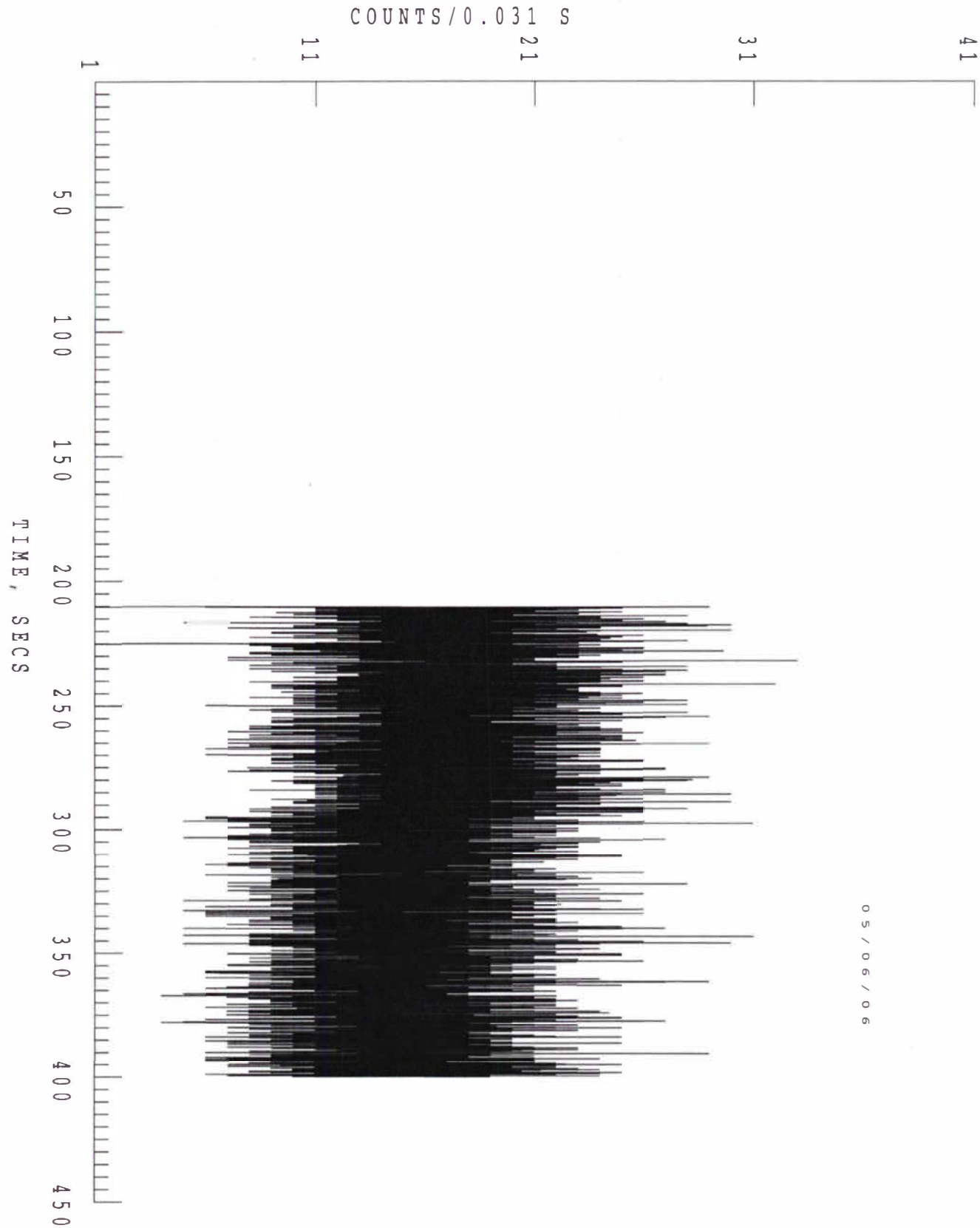
SUZAKU 04/06/06 59144.134 B

50- 240 keV 16:25:44



HESSI 04/06/06 58944.000 (SUZAKU_20060604_59144) B

25- 150 keV



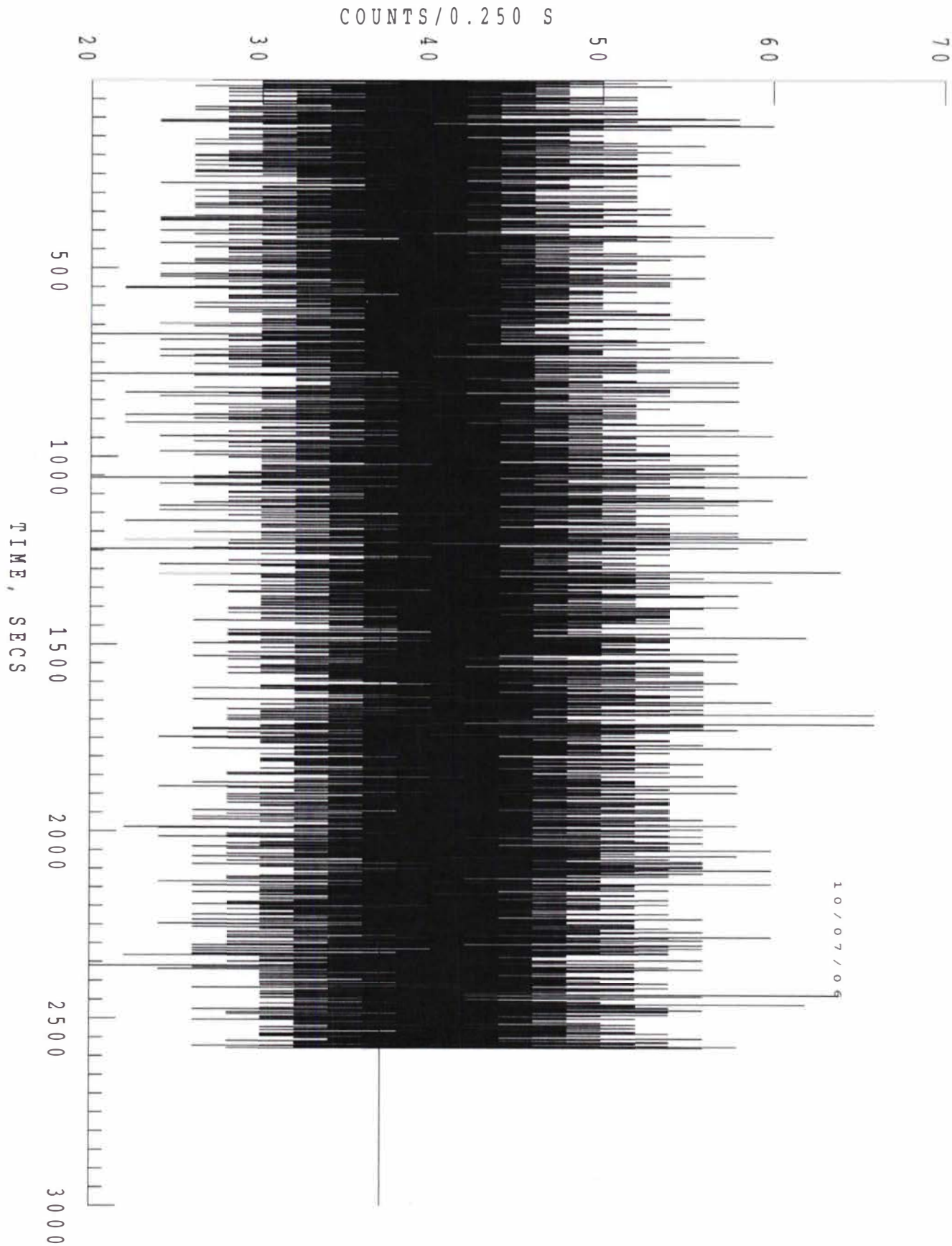
C

```
From vxw@capella.gsfc.nasa.gov Sun Jun  4 11:24:21 2006
X-ASG-Debug-ID: 1149445483-13d8002d0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: capella.gsfc.nasa.gov[128.183.16.187]
X-Barracuda-Start-Time: 1149445483
X-ASG-Whitelist:  Sender
Date: Sun, 4 Jun 2006 14:24:42 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: GCN/SWIFT_BAT_LIGHTCURVE
Subject: GCN/SWIFT_BAT_LIGHTCURVE
Mime-Version: 1.0
Content-Disposition: inline
User-Agent: Mutt/1.4.2.1i
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

TITLE:            GCN/SWIFT NOTICE
NOTICE_DATE:      Sun 04 Jun 06 18:24:06 UT
NOTICE_TYPE:      Swift-BAT GRB Lightcurve
TRIGGER_NUM:      213486,    Seg_Num: 0
GRB_RA:           337.242d {+22h 28m 58s} (J2000),
                  337.327d {+22h 29m 18s} (current),
                  336.580d {+22h 26m 19s} (1950)
GRB_DEC:          -10.905d {-10d 54' 17"} (J2000),
                  -10.872d {-10d 52' 18"} (current),
                  -11.161d {-11d 09' 39"} (1950)
GRB_DATE:         13890 TJD;   155 DOY;   06/06/04
GRB_TIME:         65940.01 SOD {18:19:00.01} UT
TRIGGER_INDEX:    448
 RB_PHI:          148.85 [deg]
GRB_THETA:         25.12 [deg]
DELTA_TIME:       -44.00 [sec]
TRIGGER_DUR:      4.096 [sec]
SOLN_STATUS:      0x83
RATE_SIGNIF:      12.48 [sigma]
IMAGE_SIGNIF:     6.78 [sigma]
LC_URL:           sw00213486000msb.lc
SUN_POSTN:         72.64d {+04h 50m 33s}  +22.48d {+22d 28' 42"}
SUN_DIST:          98.98 [deg]   Sun_angle= 6.4 [hr] (West of Sun)
MOON_POSTN:       173.63d {+11h 34m 32s}   +3.63d {+03d 37' 32"}
MOON_DIST:        162.29 [deg]
MOON_ILLUM:       58 [%]
GAL_COORDS:        51.82,-52.82 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS:       334.92, -1.29 [deg] ecliptic lon,lat of the burst (or transient
COMMENTS:         SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS:         The next comments were copied from the BAT_POS Notice:
COMMENTS:         This is a rate trigger.
COMMENTS:         A point_source was found.
COMMENTS:         This does not match any source in the on-board catalog.
COMMENTS:         This does not match any source in the ground catalog.
COMMENTS:         This is a GRB.
COMMENTS:         Since the IMAGE_SIGNIF is less than 7 sigma, this is a question
COMMENTS:         This trigger occurred at longitude,latitude = 239.29,8.97 [deg]
```

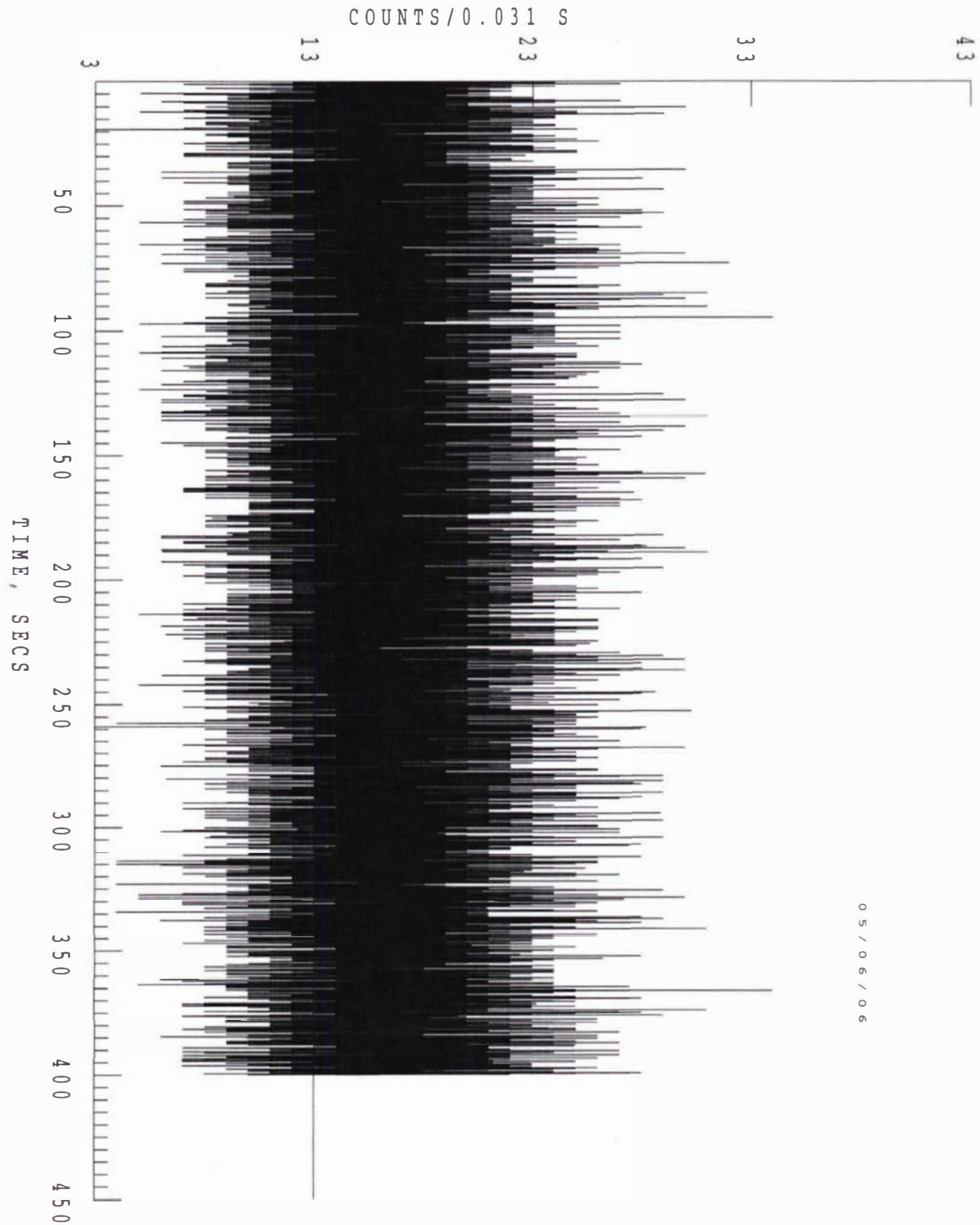
MS01 04/06/06 64625.029

50- 3000 keV



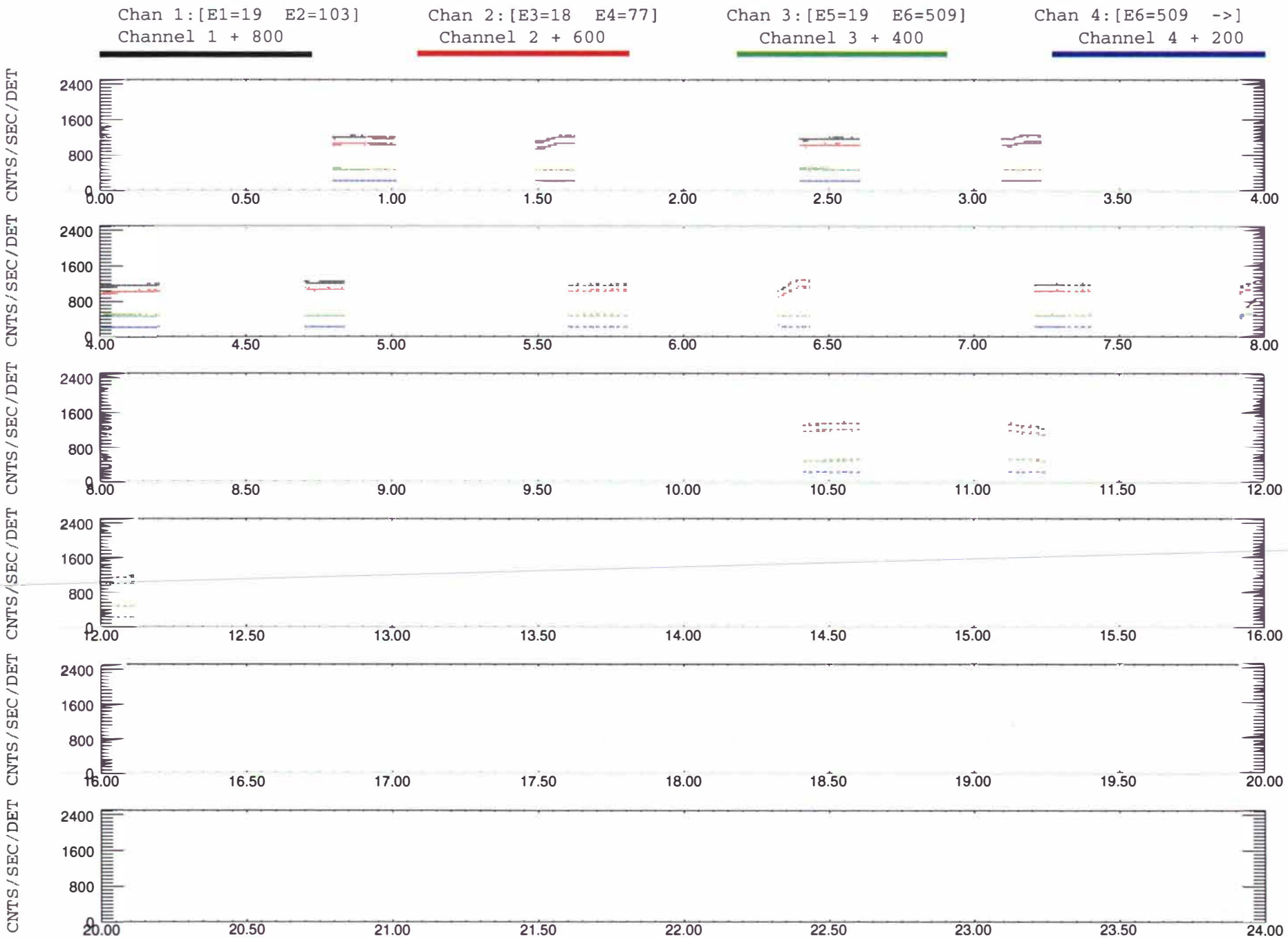
HESSI 04/06/06 65740.000 (GSwift-BAT_213486_0_20060604_

25- 150 keV



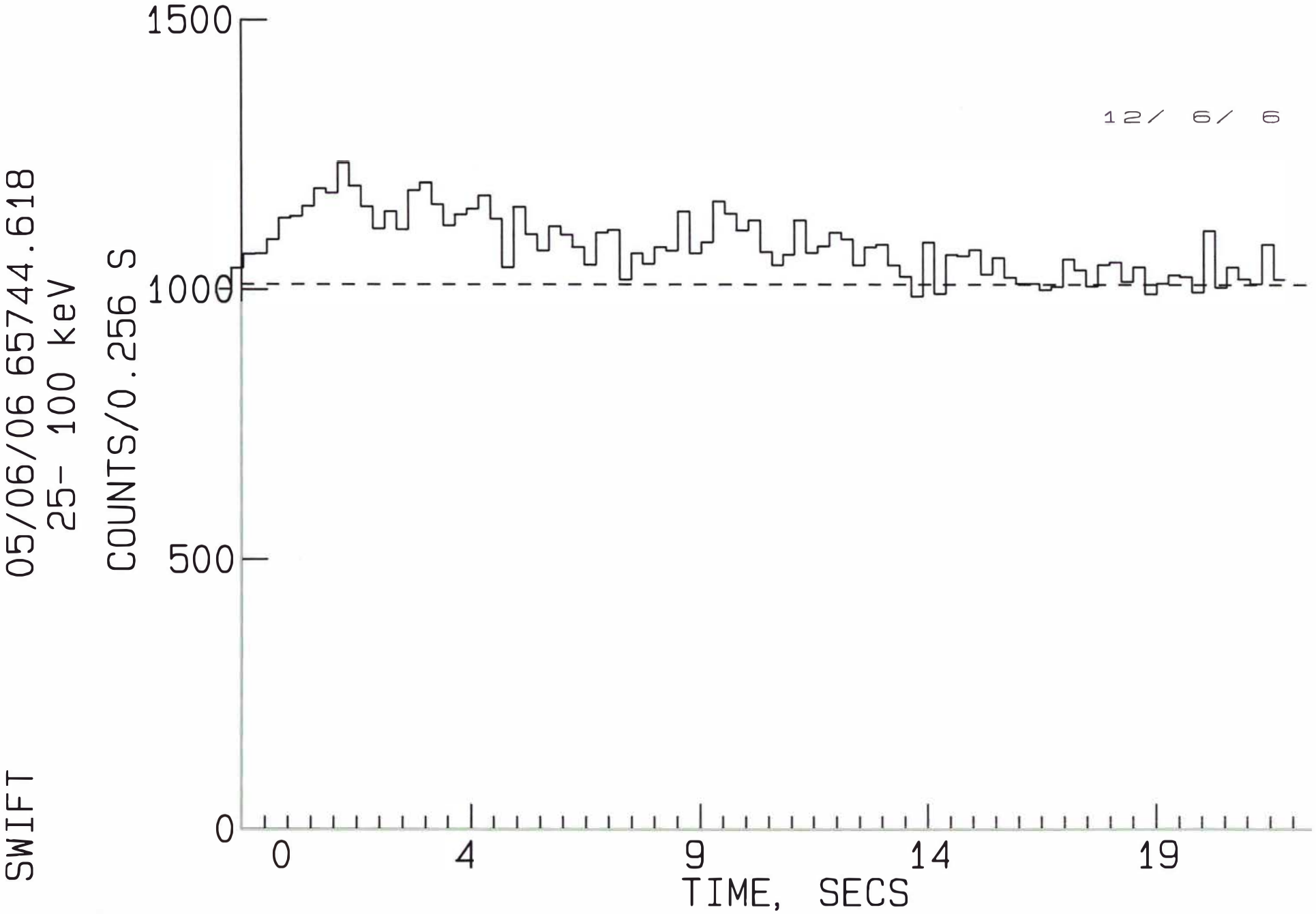
FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED

04/06/06 DOY 155 Julian 2453891.50000 [est. sct = 0019 d301 b010 666d]



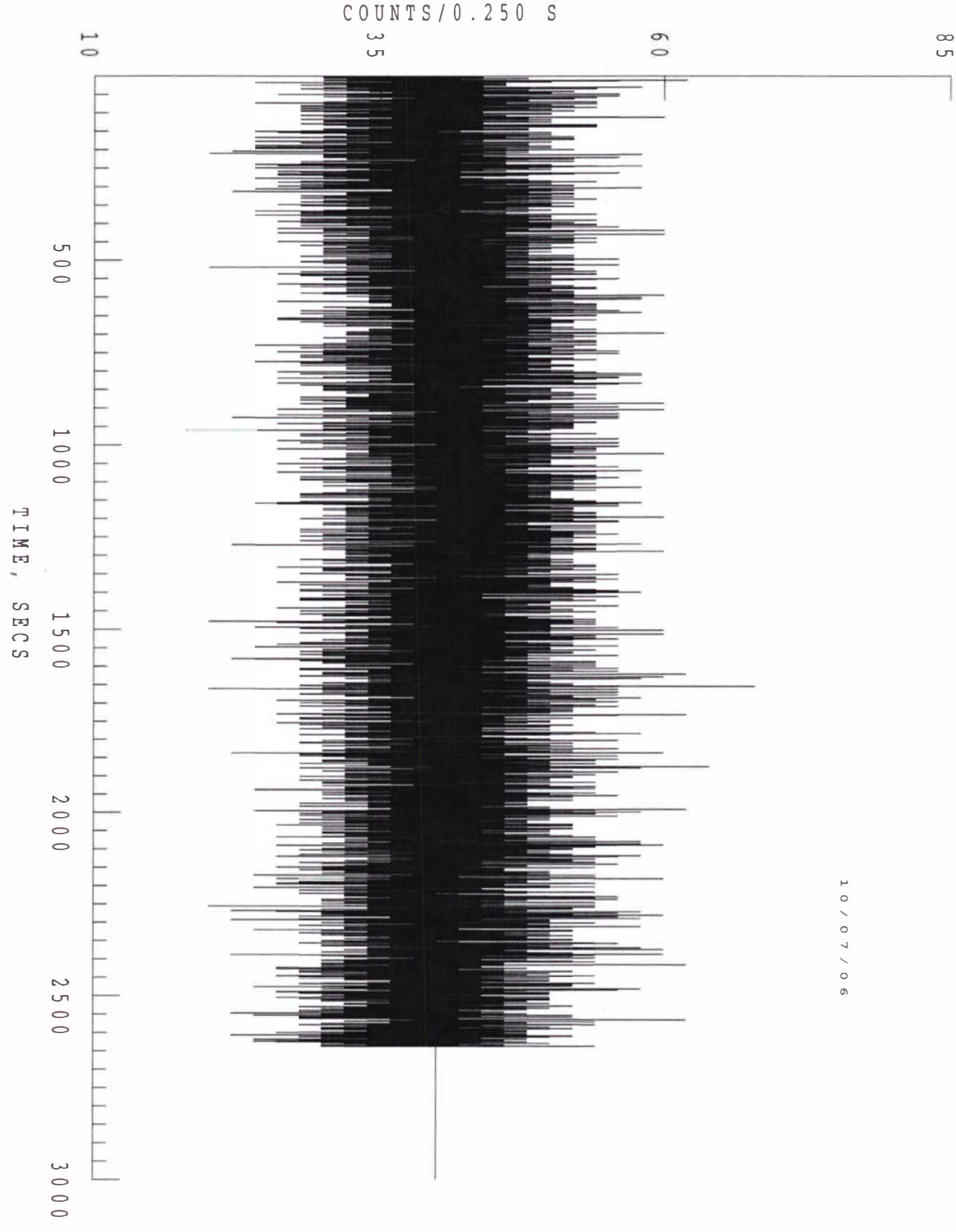
```
From vxw@capella.gsfc.nasa.gov Mon Jun  5 11:25:07 2006
X-ASG-Debug-ID: 1149531927-5cca00470000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: capella.gsfc.nasa.gov[128.183.16.187]
X-Barracuda-Start-Time: 1149531927
X-ASG-Whitelist:  Sender
Date: Mon, 5 Jun 2006 14:21:24 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: GCN/SWIFT_BAT_LIGHTCURVE
Subject: GCN/SWIFT_BAT_LIGHTCURVE
Mime-Version: 1.0
Content-Disposition: inline
User-Agent: Mutt/1.4.2.1i
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

TITLE:            GCN/SWIFT NOTICE
NOTICE_DATE:      Mon 05 Jun 06 18:20:43 UT
NOTICE_TYPE:      Swift-BAT GRB Lightcurve
TRIGGER_NUM:      213630,   Seg_Num: 0
GRB_RA:           322.144d {+21h 28m 35s} (J2000),
                  322.228d {+21h 28m 55s} (current),
                  321.485d {+21h 25m 56s} (1950)
GRB_DEC:           -6.060d {-06d 03' 36"} (J2000),
                   -6.032d {-06d 01' 54"} (current),
                   -6.279d {-06d 16' 44"} (1950)
GRB_DATE:         13891 TJD;   156 DOY;   06/06/05
GRB_TIME:         65744.61 SOD {18:15:44.61} UT
TRIGGER_INDEX:    474
 RB_PHI:          128.05 [deg]
GRB_THETA:         15.76 [deg]
DELTA_TIME:       -24.00 [sec]
TRIGGER_DUR:      3.072 [sec]
SOLN_STATUS:      0x3
RATE_SIGNIF:      15.90 [sigma]
IMAGE_SIGNIF:     7.96 [sigma]
LC_URL:           sw00213630000msb.lc
SUN_POSTN:         73.66d {+04h 54m 39s}  +22.59d {+22d 35' 18"}
SUN_DIST:         112.08 [deg]   Sun_angle= 7.4 [hr] (West of Sun)
MOON_POSTN:       184.07d {+12h 16m 16s}   -2.01d {-02d 00' 32"}
MOON_DIST:        137.46 [deg]
MOON_ILLUM:       67 [%]
GAL_COORDS:        47.02,-37.48 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS:       322.53,  8.39 [deg] ecliptic lon,lat of the burst (or transient
COMMENTS:         SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS:         The next comments were copied from the BAT_POS Notice:
COMMENTS:         This is a rate trigger.
COMMENTS:         A point_source was found.
COMMENTS:         This does not match any source in the on-board catalog.
COMMENTS:         This does not match any source in the ground catalog.
COMMENTS:         This is a GRB.
COMMENTS:         This trigger occurred at longitude,latitude = 203.98,16.69 [deg
```


SWIFT
05/06/06 65744.618
25- 100 keV
COUNTS/0.256 S
1500
1000
500
0
0
4
9
14
19
TIME, SECS
12/ 6/ 6

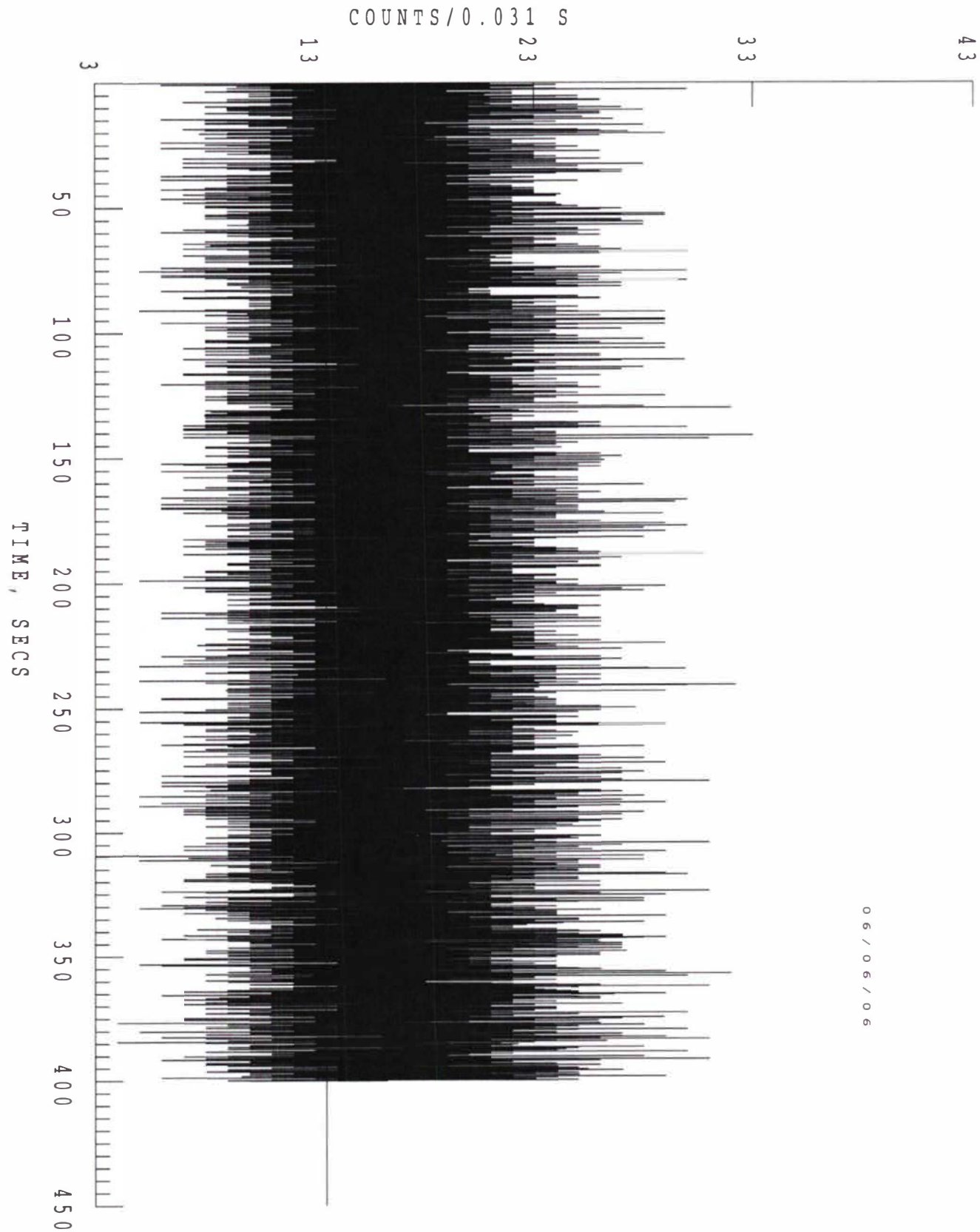
MS01 05/06/06 64383.458

50- 3000 keV



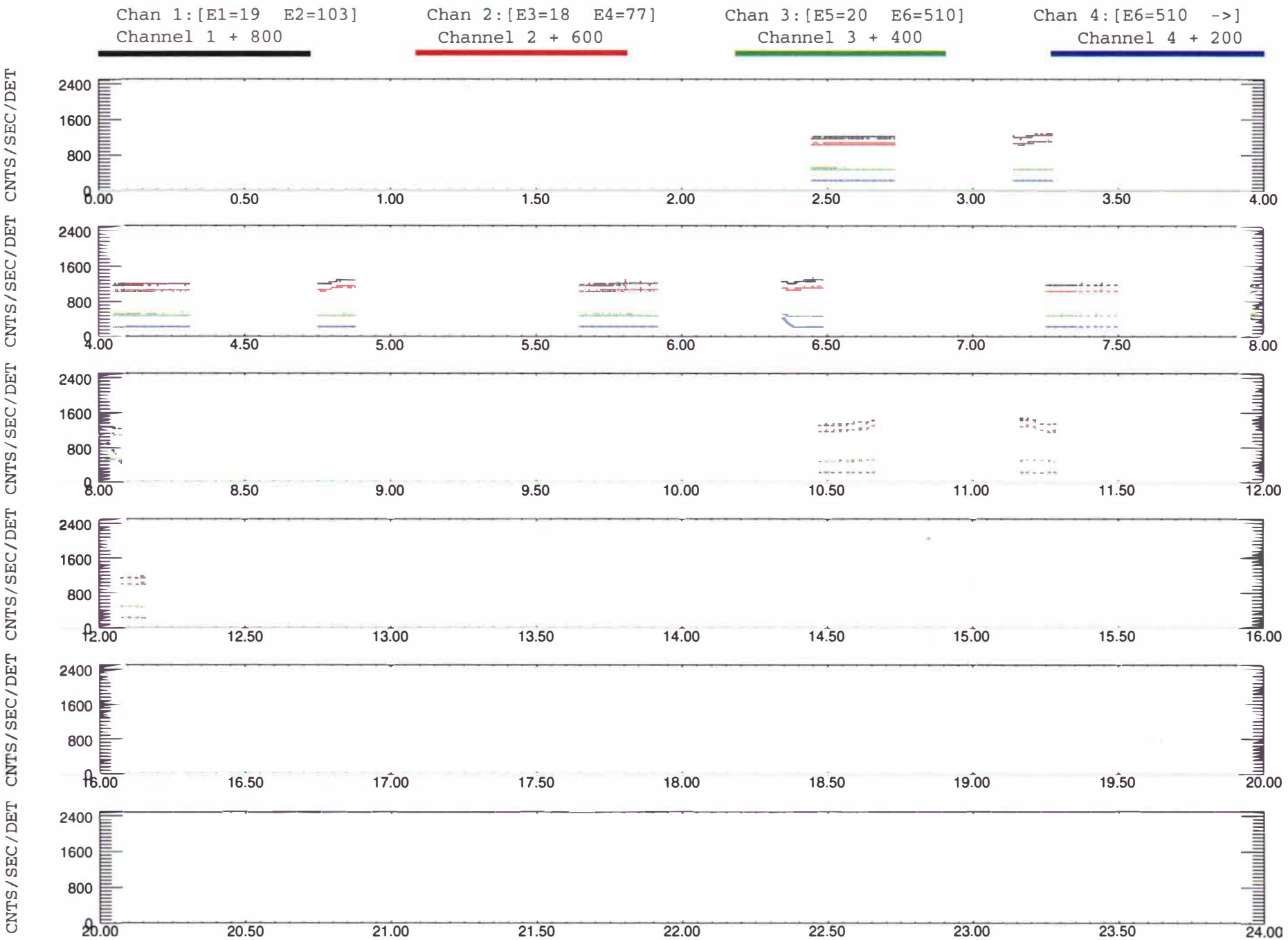
HESSI 05/06/06 65544.000 (GSwift-BAT_213630_0_20060605_

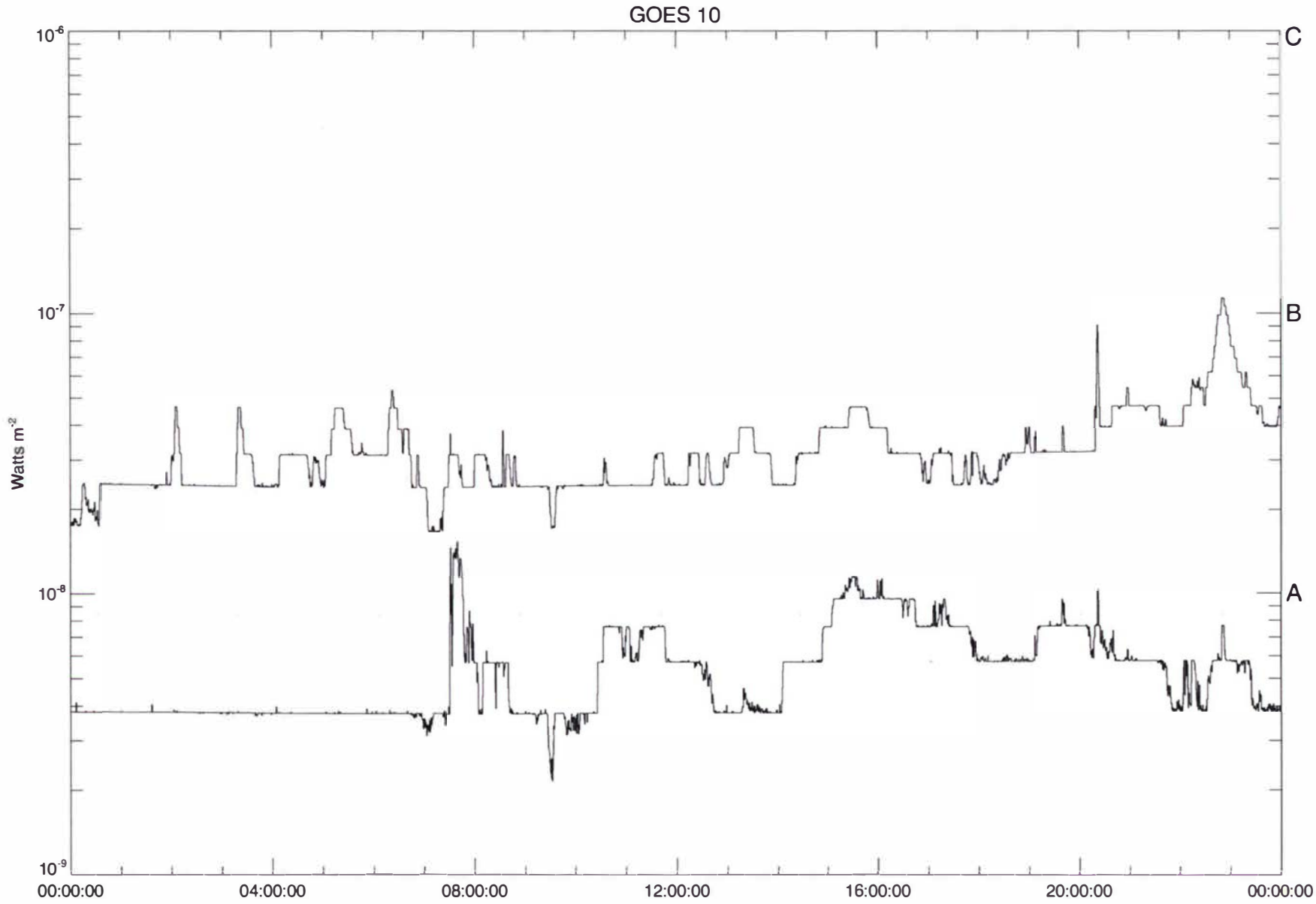
25- 150 keV



FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED

05/06/06 DOY 156 Julian 2453892.50000 [est. sct = 0019 d315 ce49 fc15]





Data Start: 06/06/06, 0000:00
Plot created: 06/06/09, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

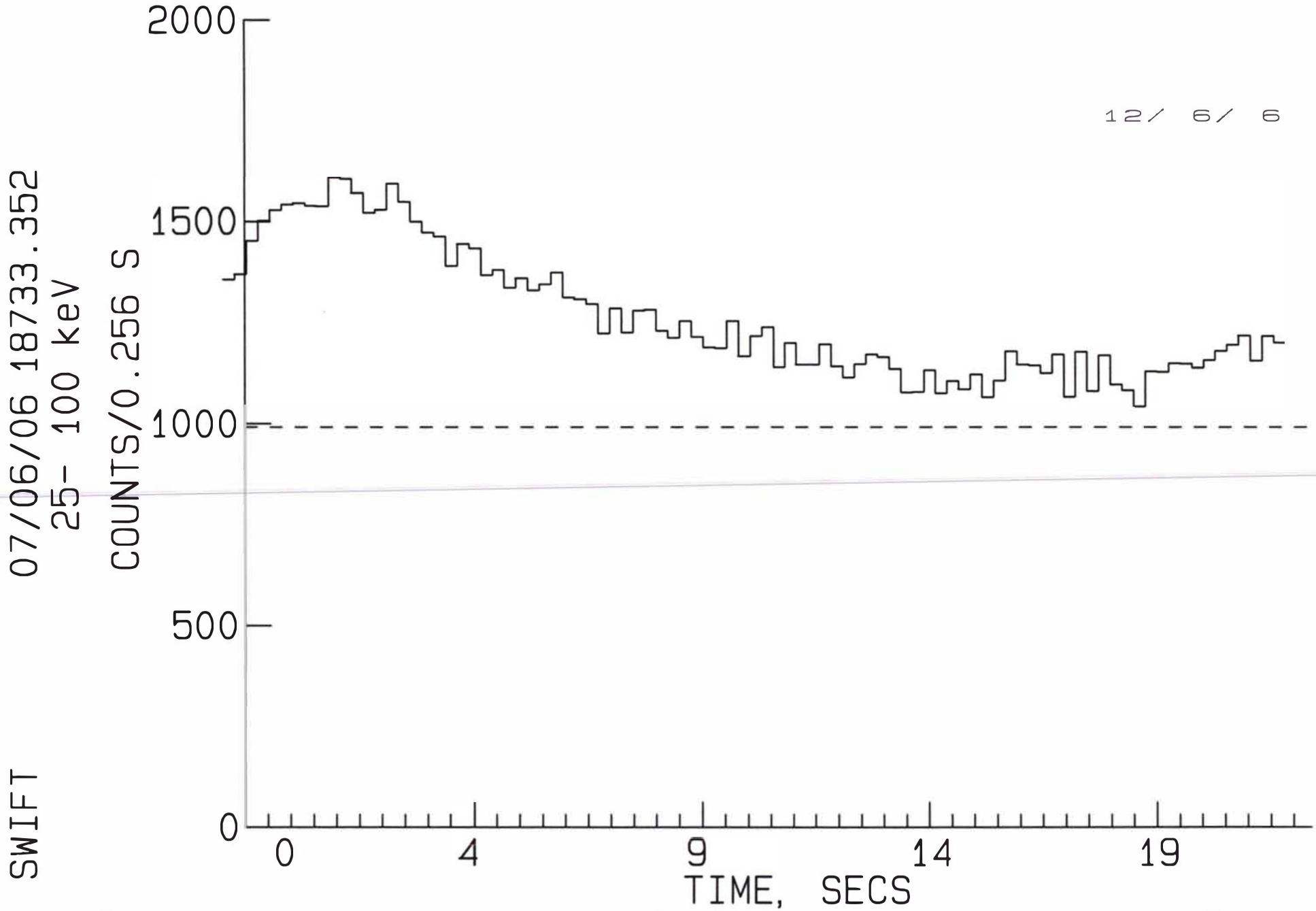
A

```
From vxw@capella.gsfc.nasa.gov Tue Jun  6 22:24:19 2006
X-ASG-Debug-ID: 1149657882-62b0002f0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
 -Barracuda-Connect: capella.gsfc.nasa.gov[128.183.16.187]
 -Barracuda-Start-Time: 1149657882
X-ASG-Whitelist:  Sender
Date: Wed, 7 Jun 2006 01:18:15 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: GCN/SWIFT_BAT_LIGHTCURVE
Subject: GCN/SWIFT_BAT_LIGHTCURVE
Mime-Version: 1.0
Content-Disposition: inline
User-Agent: Mutt/1.4.2.1i
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

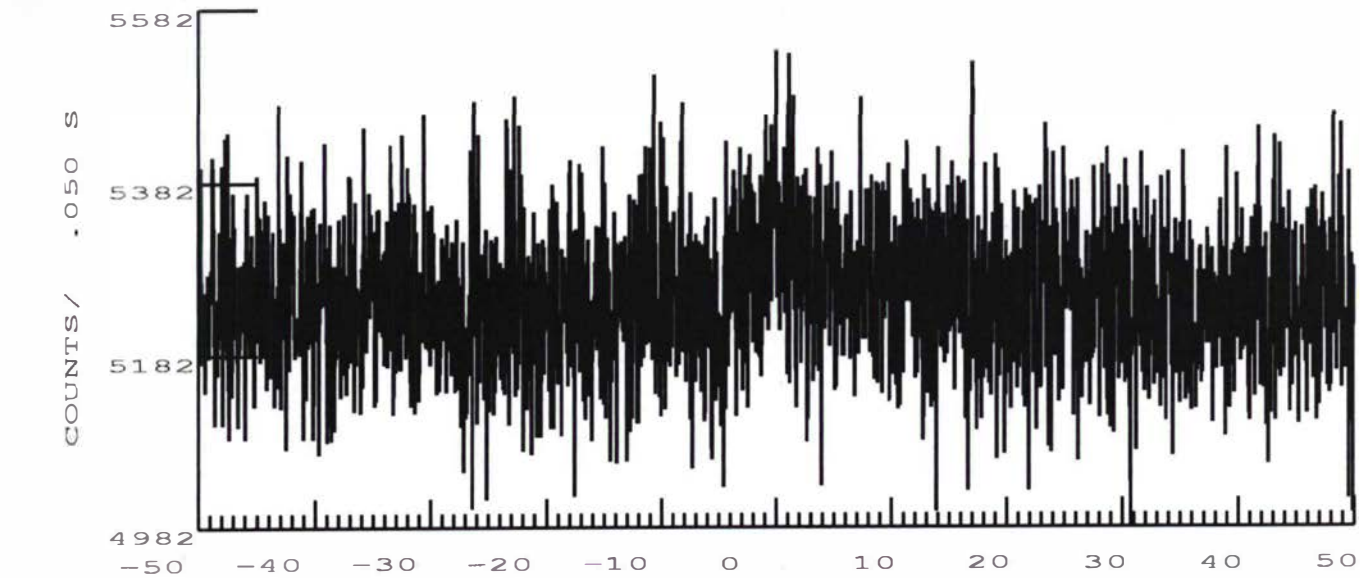
TITLE:            GCN/SWIFT NOTICE
NOTICE_DATE:      Wed 07 Jun 06 05:17:29 UT
NOTICE_TYPE:      Swift-BAT GRB Lightcurve
TRIGGER_NUM:      213823,   Seg_Num: 0
GRB_RA:           329.712d {+21h 58m 51s} (J2000),
                  329.802d {+21h 59m 12s} (current),
                  329.012d {+21h 56m 03s} (1950)
GRB_DEC:          -22.506d {-22d 30' 20"} (J2000),
                  -22.475d {-22d 28' 28"} (current),
                  -22.745d {-22d 44' 42"} (1950)
GRB_DATE:         13893 TJD;   158 DOY;   06/06/07
GRB_TIME:         18733.35 SOD {05:12:13.35} UT
TRIGGER_INDEX:    146
 RB_PHI:           -9.30 [deg]
GRB_THETA:         17.95 [deg]
DELTA_TIME:       -18.00 [sec]
TRIGGER_DUR:      1.024 [sec]
SOLN_STATUS:      0x3
RATE_SIGNIF:      32.61 [sigma]
IMAGE_SIGNIF:     14.77 [sigma]
LC_URL:           sw00213823000msb.lc
SUN_POSTN:         75.17d {+05h 00m 40s}  +22.74d {+22d 44' 14"}
SUN_DIST:         111.93 [deg]   Sun_angle= 7.0 [hr] (West of Sun)
MOON_POSTN:       199.76d {+13h 19m 01s}  -10.20d {-10d 11' 46"}
MOON_DIST:        121.16 [deg]
MOON_ILLUM:       79 [%]
GAL_COORDS:        29.91,-50.75 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS:       323.99, -9.55 [deg] ecliptic lon,lat of the burst (or transient
COMMENTS:         SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS:         The next comments were copied from the BAT_POS Notice:
COMMENTS:         This is a rate trigger.
COMMENTS:         A point_source was found.
COMMENTS:         This does not match any source in the on-board catalog.
COMMENTS:         This does not match any source in the ground catalog.
COMMENTS:         This is a GRB.
COMMENTS:         This trigger occurred at longitude,latitude = 300.19,13.06 [deg
```

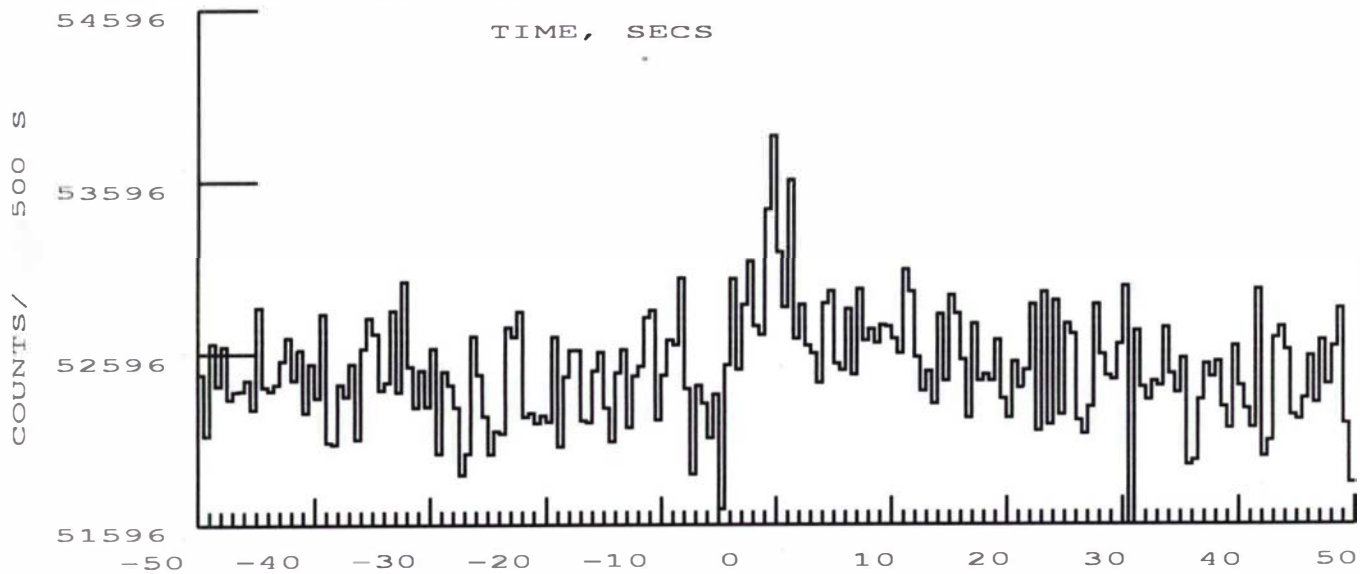
100 s
2.6×10^{-6} erg cm^{-2}
1.4 phot/cm^2 s

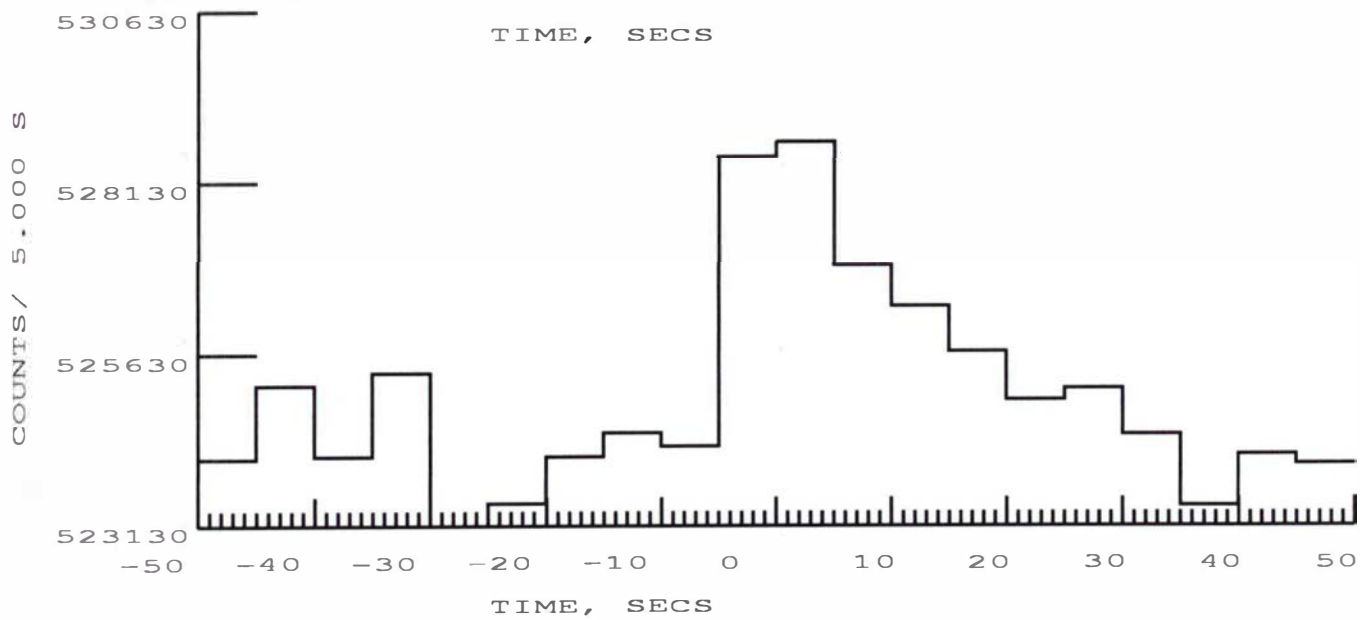
A


12/ 6/ 6
2000
1500
1000
500
0
0
4
9
14
19
TIME, SECS
SWIFT
07/06/06 18733.352
25- 100 keV
COUNTS/0.256 S

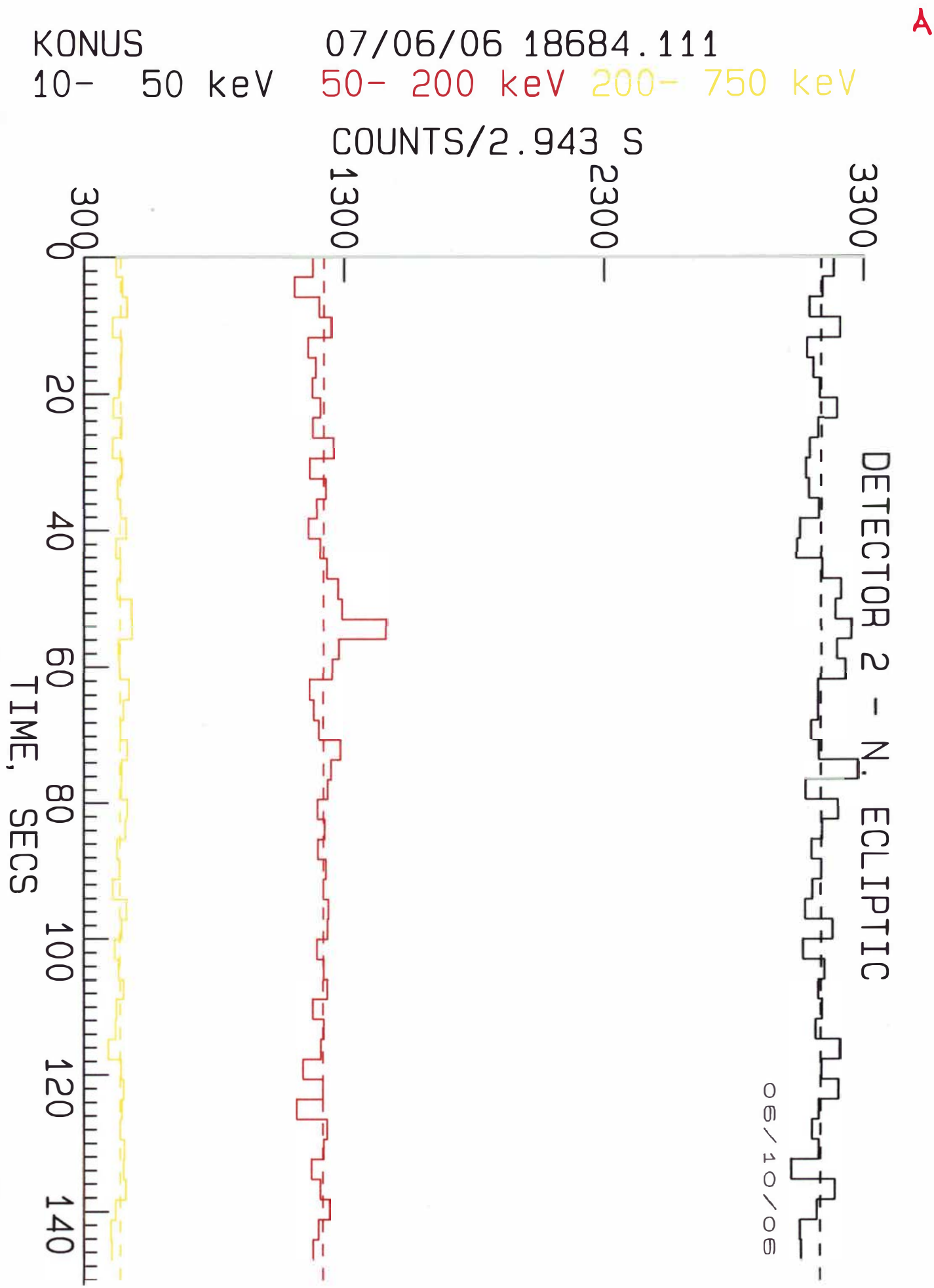
INTEGRAL 07/06/06 18733.000 05:12:13.0 11/07/14



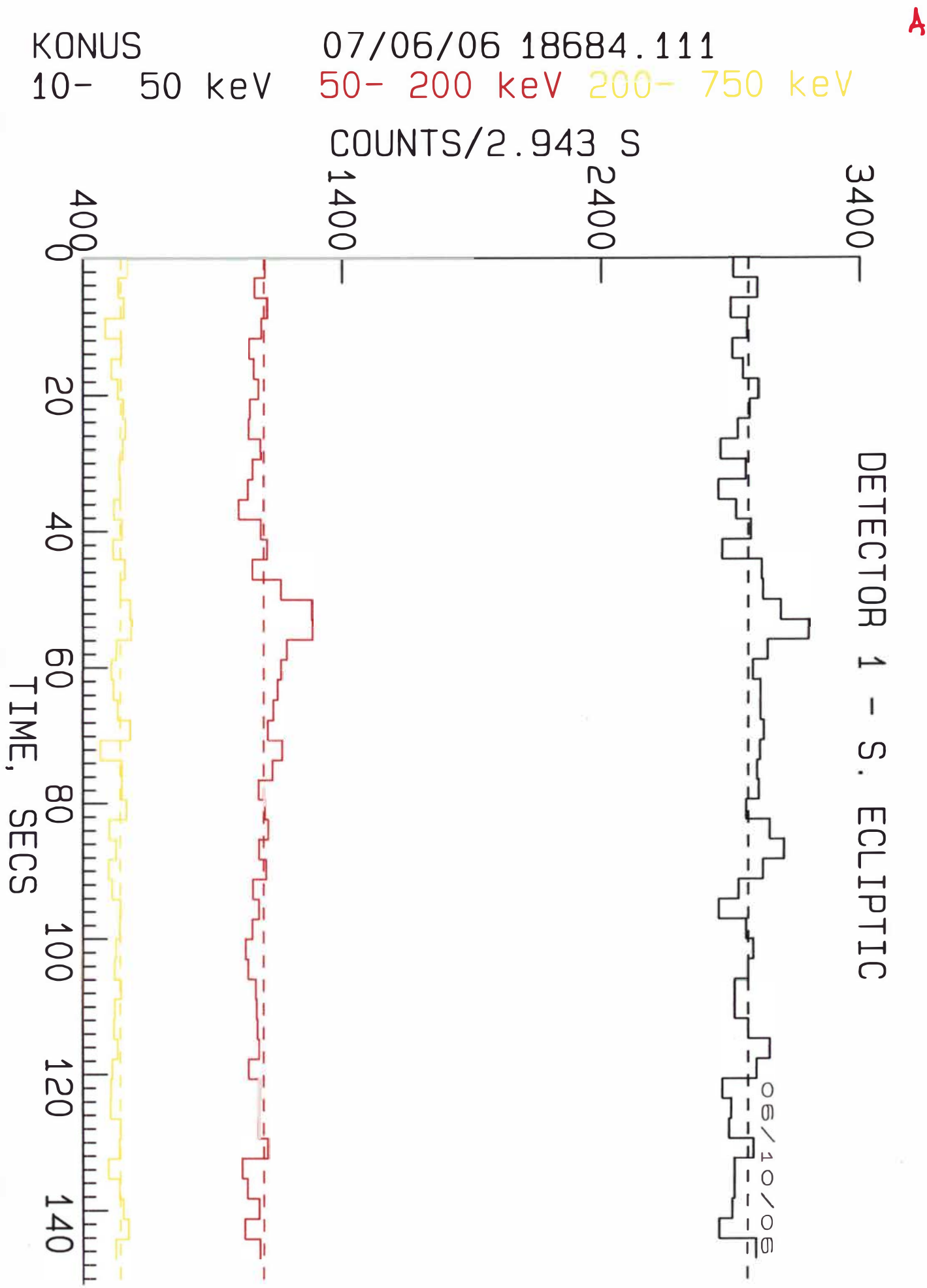




A


KONUS
07/06/06 18684.111
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.943 S
300
1300
2300
3300
0
20
40
60
80
100
120
140
TIME, SECS
DETECTOR 2 - N. ECLIPTIC
06/10/06

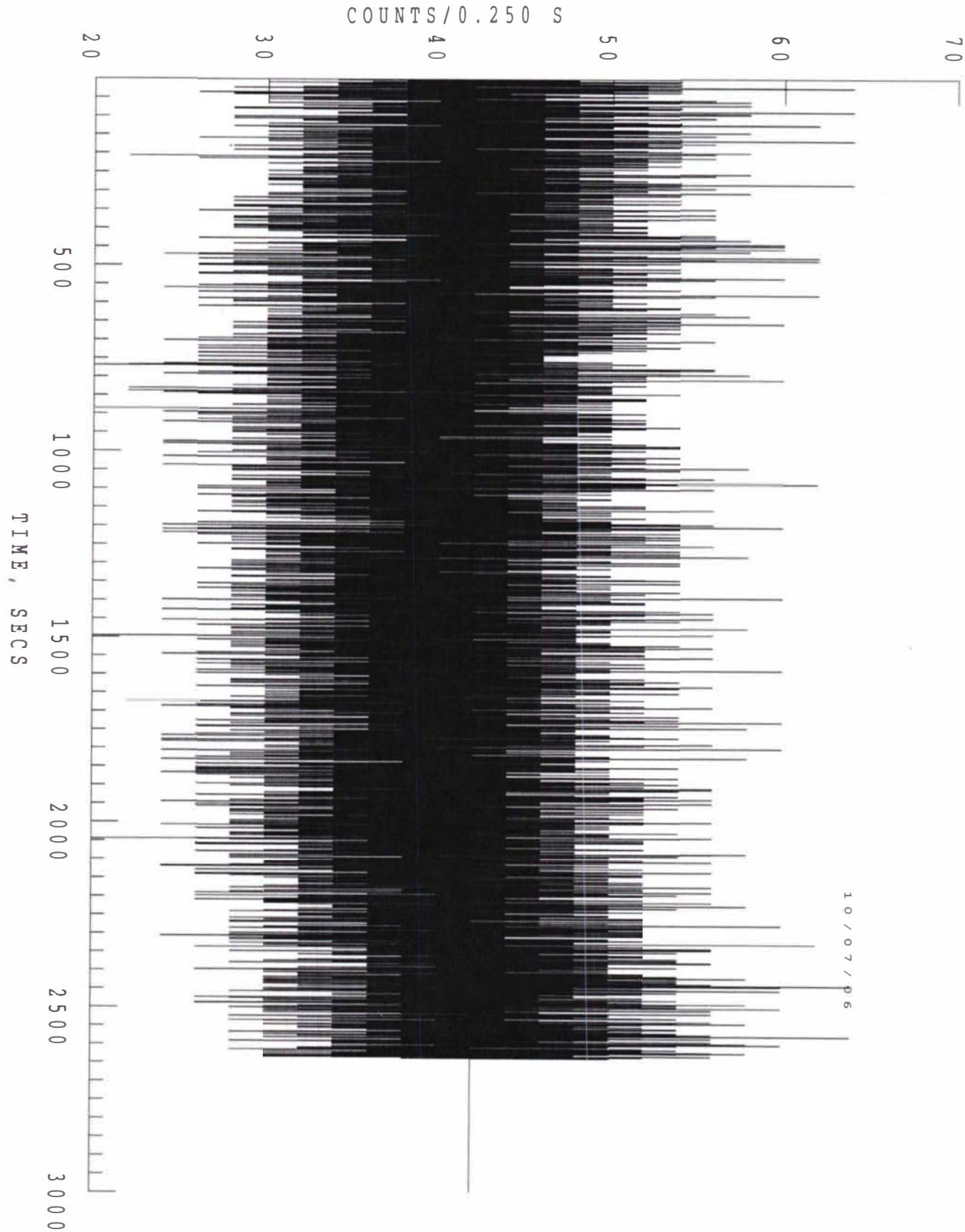
A


KONUS
07/06/06 18684.111
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.943 S
0
1400
2400
3400
20
40
60
80
100
120
140
TIME, SECS
DETECTOR 1 - S. ECLIPTIC
06/10/06

MS01 07/06/06 17401.163

A

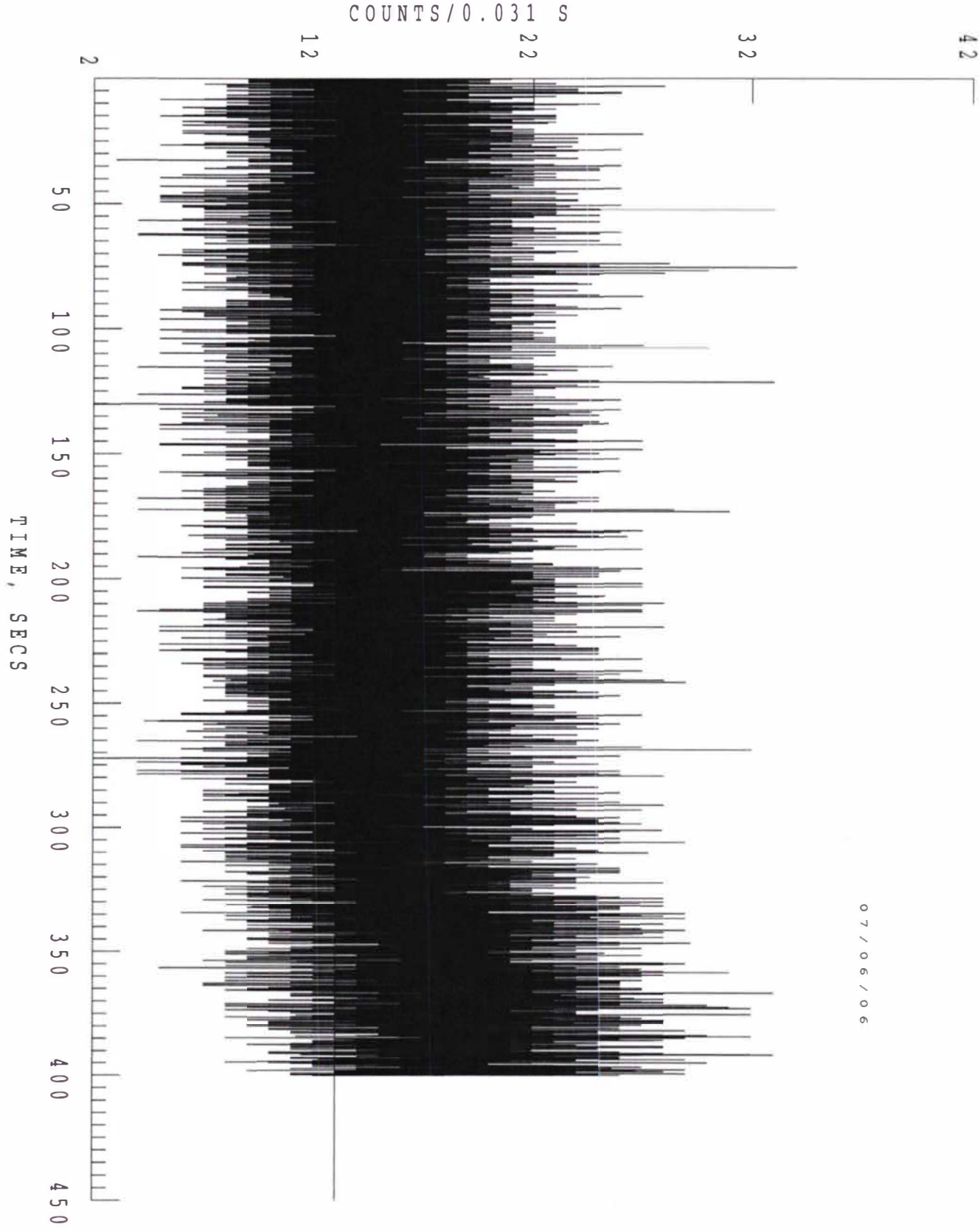
50- 3000 keV

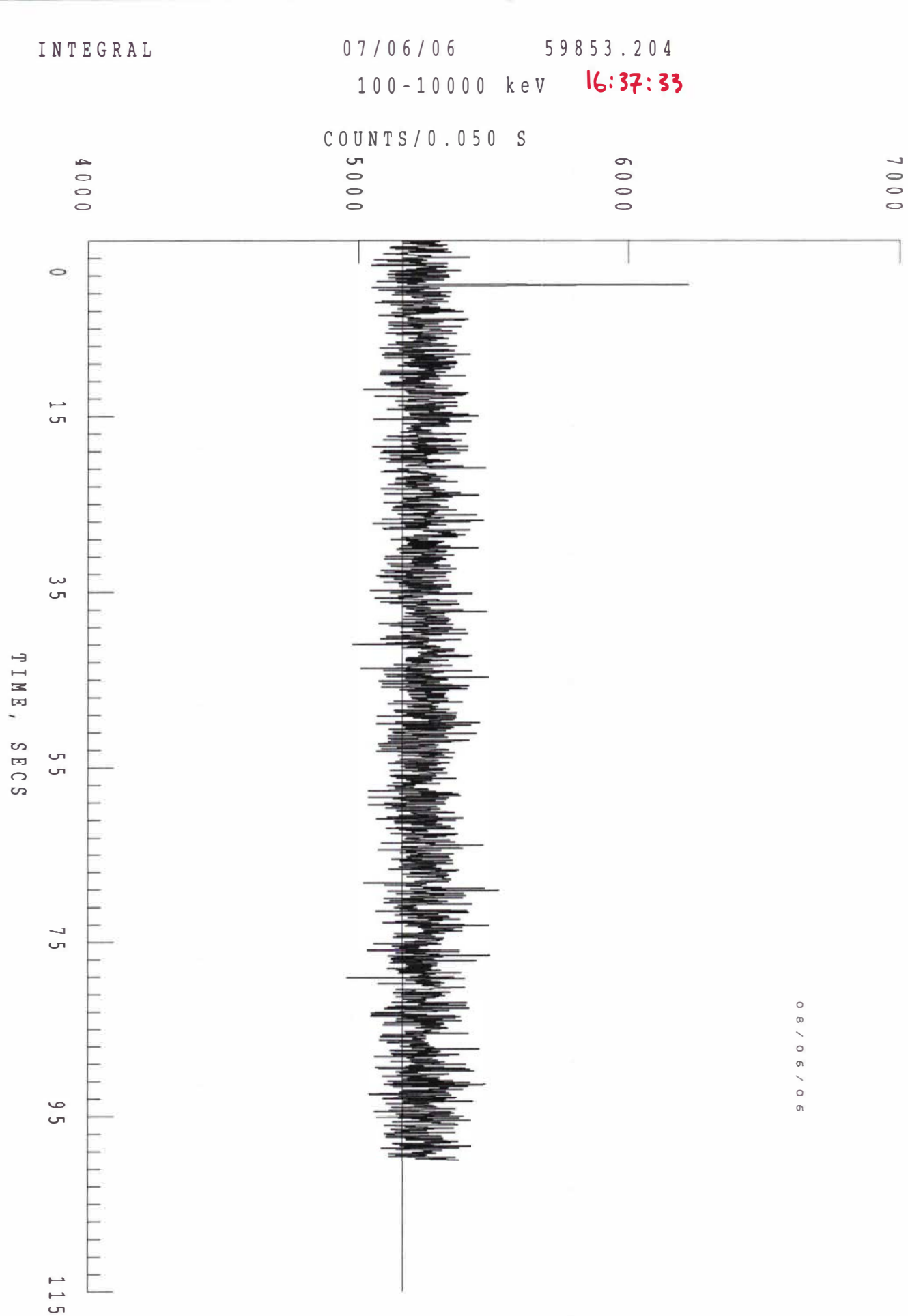


HESSI 07/06/06 · 18533.000 (GSwift-BAT_213823_0_20060607_

25- 150 keV

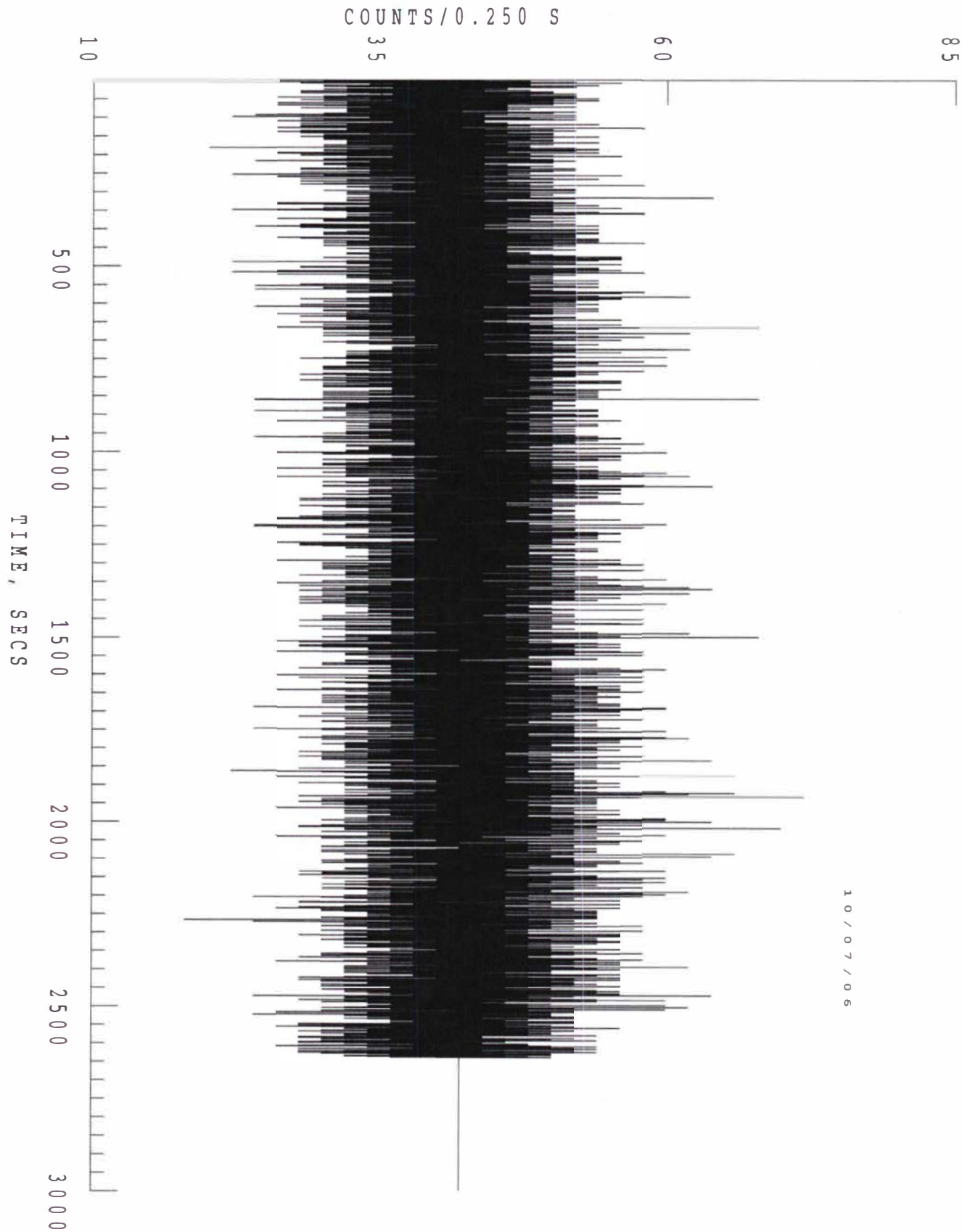
A

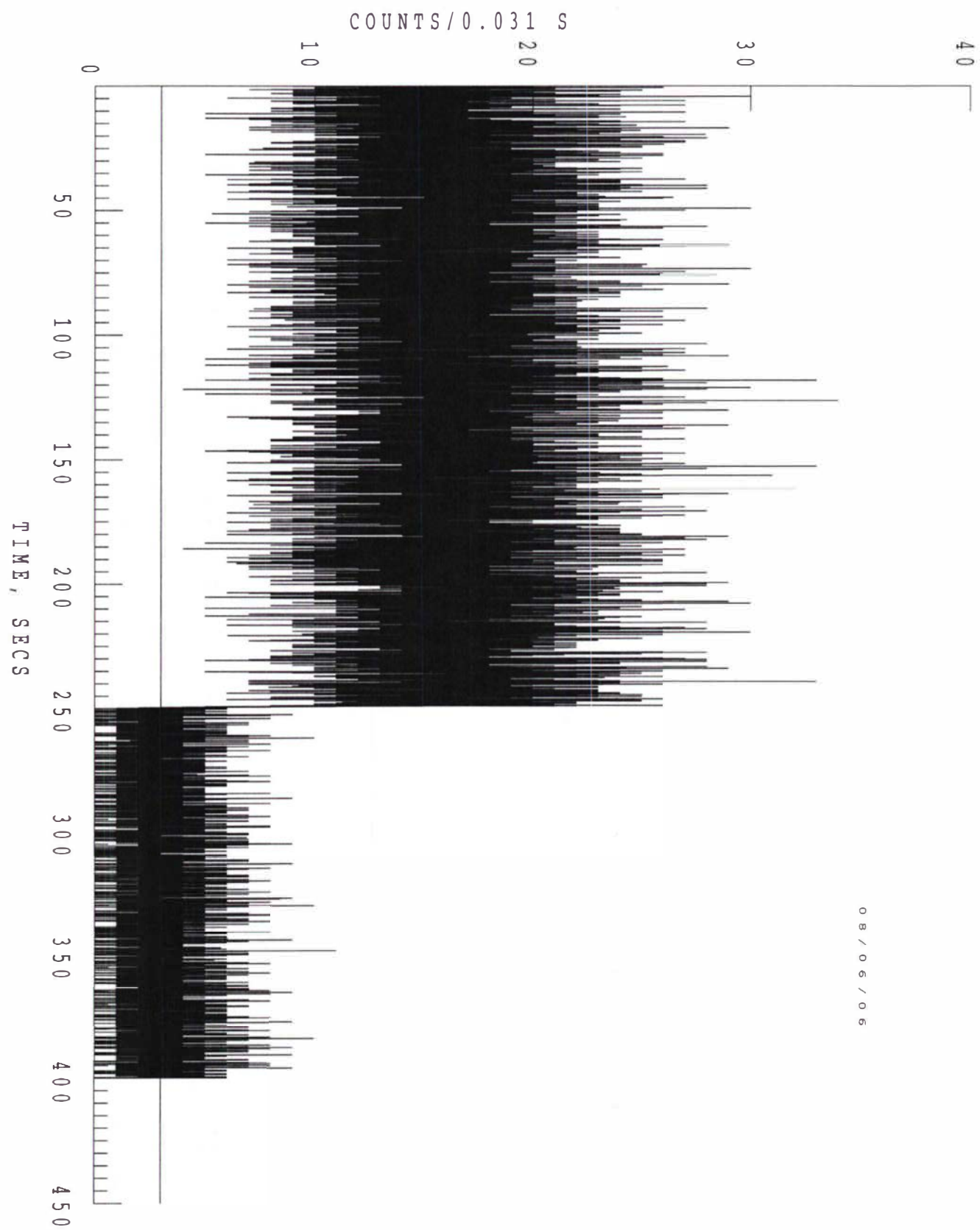


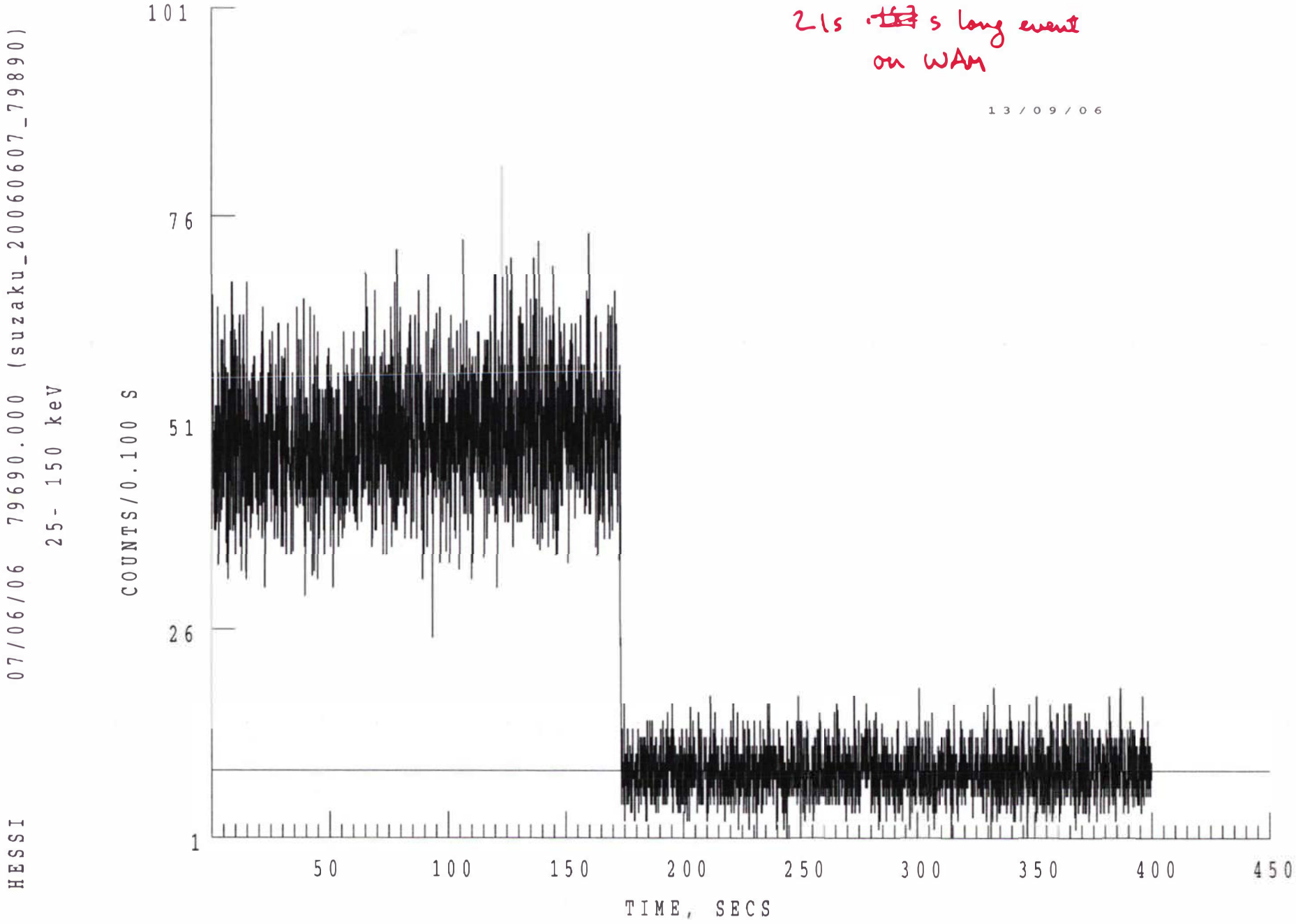

INTEGRAL
07/06/06
59853.204
100-10000 keV
16:37:33
COUNTS/0.050 S
4000
5000
6000
7000
0
15
35
55
75
95
115
TIME, SECS
08/06/06

MS01 07/06/06 58500.418

50- 3000 keV

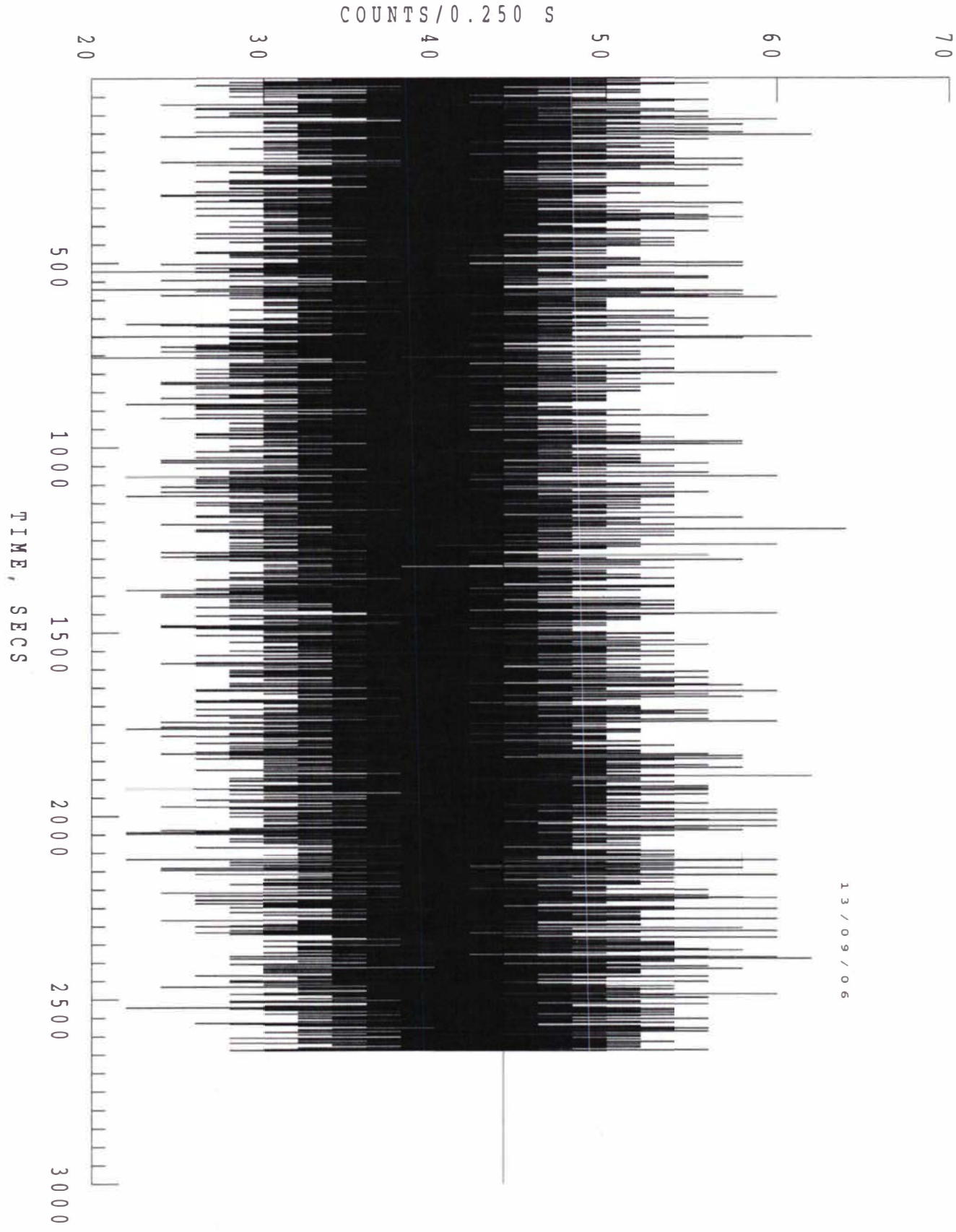



HESSI 07/06/06 59653.000 (INTEGRAL_20060607_59853)
25- 150 keV
COUNTS/0.031 S
0
10
20
30
40
50
100
150
200
250
300
350
400
450
TIME, SECS
08/06/06


21s ~~167~~ s long event
on WAM
13/09/06
HESSI 07/06/06 79690.000 (suzaku_20060607_79890)
25- 150 keV
COUNTS/0.100 S
101
76
51
26
1
50
100
150
200
250
300
350
400
450
TIME, SECS

MS01 07/06/06 78540.048

50- 3000 keV



B

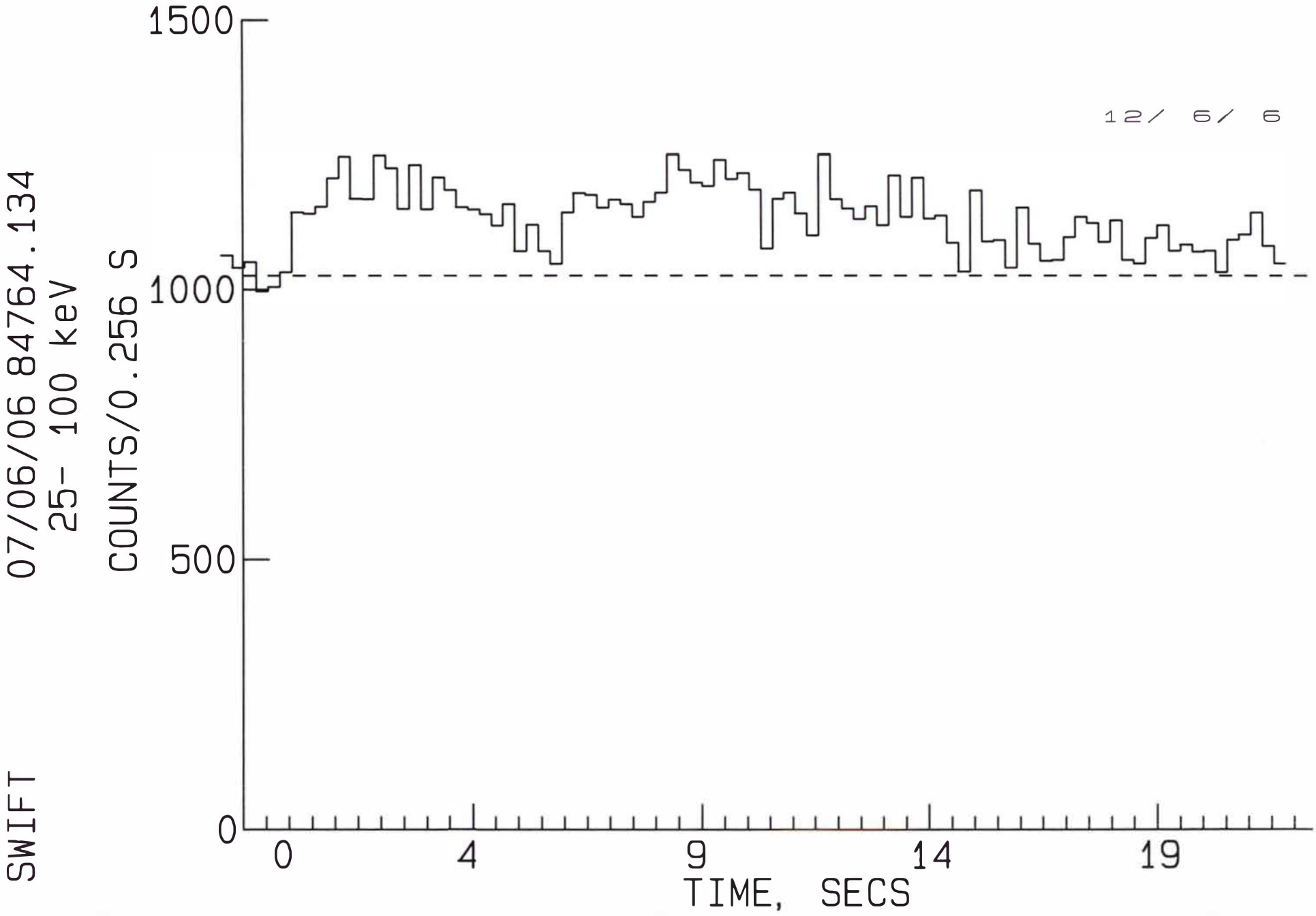
```
From vxw@capella.gsfc.nasa.gov Wed Jun  7 16:36:35 2006
X-ASG-Debug-ID: 1149723418-0f5e00310000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: capella.gsfc.nasa.gov[128.183.16.187]
X-Barracuda-Start-Time: 1149723418
X-ASG-Whitelist:  Sender
Date: Wed, 7 Jun 2006 19:36:58 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: GCN/SWIFT_BAT_LIGHTCURVE
Subject: GCN/SWIFT_BAT_LIGHTCURVE
Mime-Version: 1.0
Content-Disposition: inline
User-Agent: Mutt/1.4.2.1i
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

TITLE:            GCN/SWIFT NOTICE
NOTICE_DATE:      Wed 07 Jun 06 23:36:26 UT
NOTICE_TYPE:      Swift-BAT GRB Lightcurve
TRIGGER_NUM:      213934,    Seg_Num: 0
GRB_RA:            42.033d {+02h 48m 08s} (J2000),
                   42.122d {+02h 48m 29s} (current),
                   41.344d {+02h 45m 23s} (1950)
GRB_DEC:          +14.736d {+14d 44' 09"} (J2000),
                  +14.762d {+14d 45' 45"} (current),
                  +14.528d {+14d 31' 41"} (1950)
GRB_DATE:         13893 TJD;   158 DOY;   06/06/07
GRB_TIME:         84764.13 SOD {23:32:44.13} UT
TRIGGER_INDEX:    148
 RB_PHI:          -42.24 [deg]
GRB_THETA:         40.85 [deg]
DELTA_TIME:       -57.00 [sec]
TRIGGER_DUR:      1.024 [sec]
SOLN_STATUS:      0x3
RATE_SIGNIF:      12.88 [sigma]
IMAGE_SIGNIF:     7.37 [sigma]
LC_URL:           sw00213934000msb.lc
SUN_POSTN:         75.95d {+05h 03m 49s}  +22.81d {+22d 48' 35"}
SUN_DIST:          32.94 [deg]   Sun_angle= 2.3 [hr] (West of Sun)
MOON_POSTN:       208.45d {+13h 53m 48s}  -14.30d {-14d 18' 17"}
MOON_DIST:        166.76 [deg]
MOON_ILLUM:       85 [%]
GAL_COORDS:       160.57,-39.46 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS:        44.07, -1.39 [deg] ecliptic lon,lat of the burst (or transient
COMMENTS:         SWIFT-BAT GRB Lightcurve.
COMMENTS:
COMMENTS:         The next comments were copied from the BAT_POS Notice:
COMMENTS:         This is a rate trigger.
COMMENTS:         A point_source was found.
COMMENTS:         This does not match any source in the on-board catalog.
COMMENTS:         This does not match any source in the ground catalog.
COMMENTS:         This is a GRB.
COMMENTS:         This trigger occurred at longitude,latitude = 174.68,-5.17 [deg
```

31s

1.7×10^{-6} erg cm^{-2}

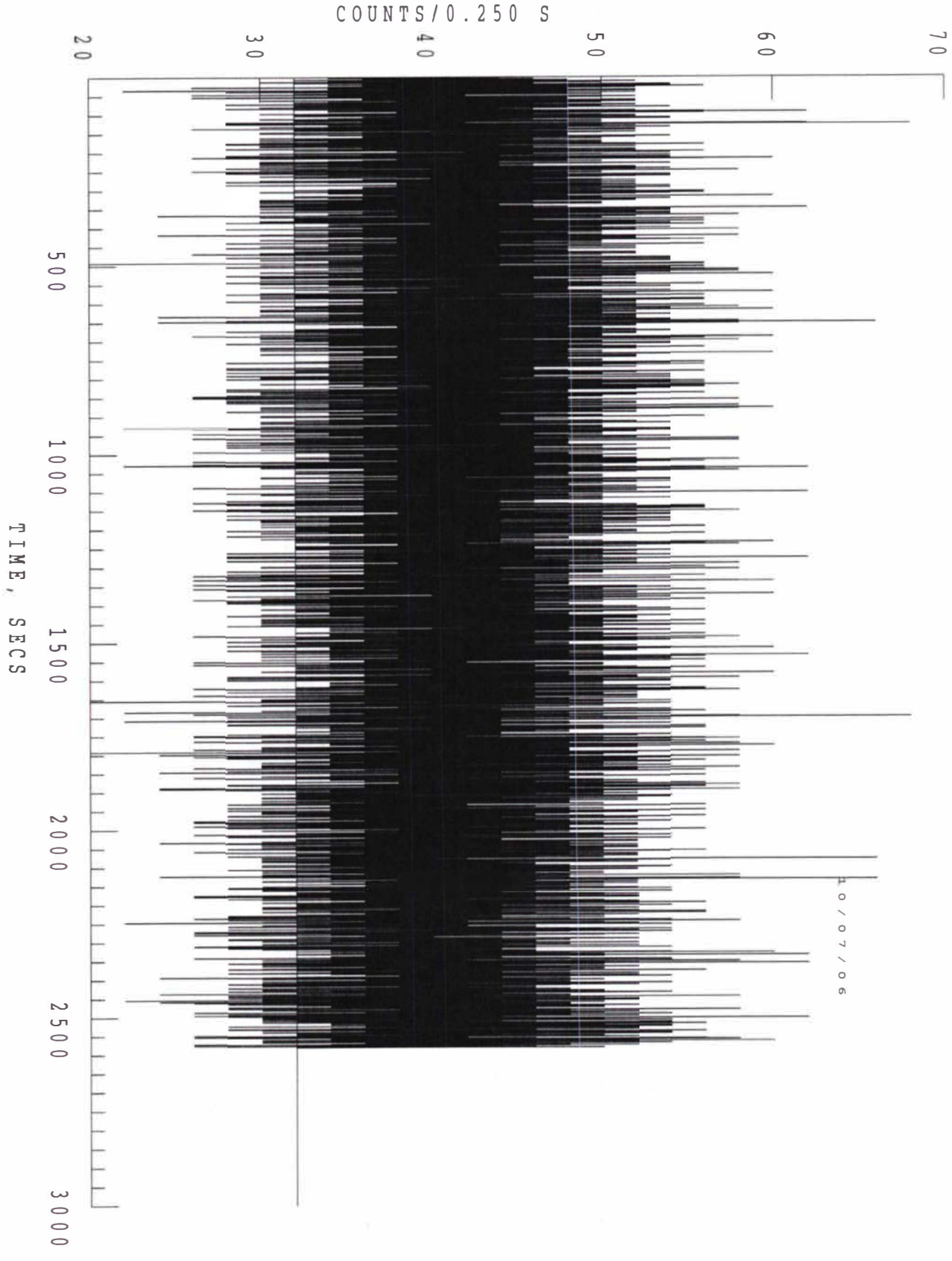
1.5 phot/cm^2 s


SWIFT
07/06/06 84764.134
25- 100 keV
COUNTS/0.256 S
1500
1000
500
0
0
4
9
14
19
TIME, SECS
12/ 6/ 6

MS01 07/06/06 83459.961

B

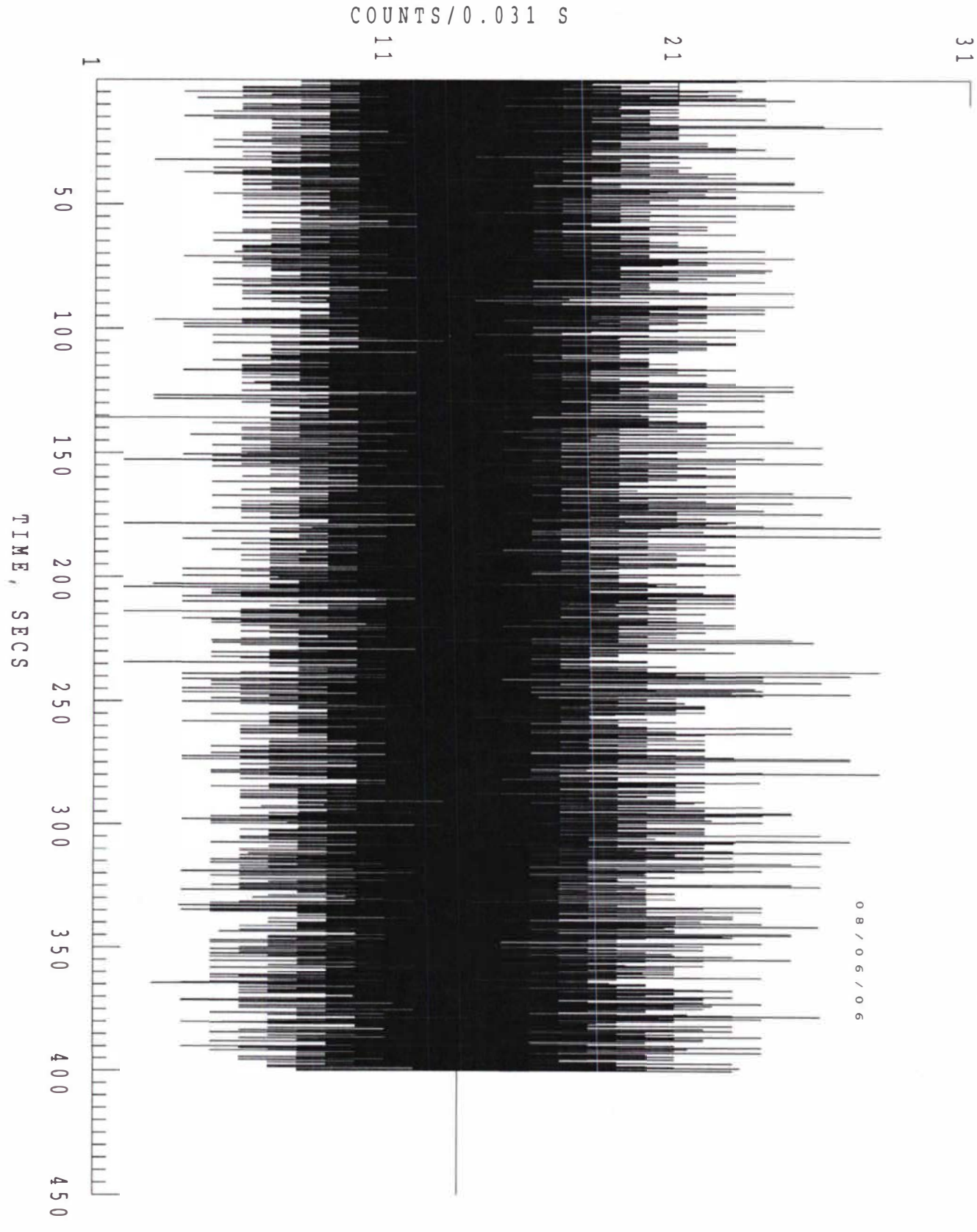
50- 3000 keV



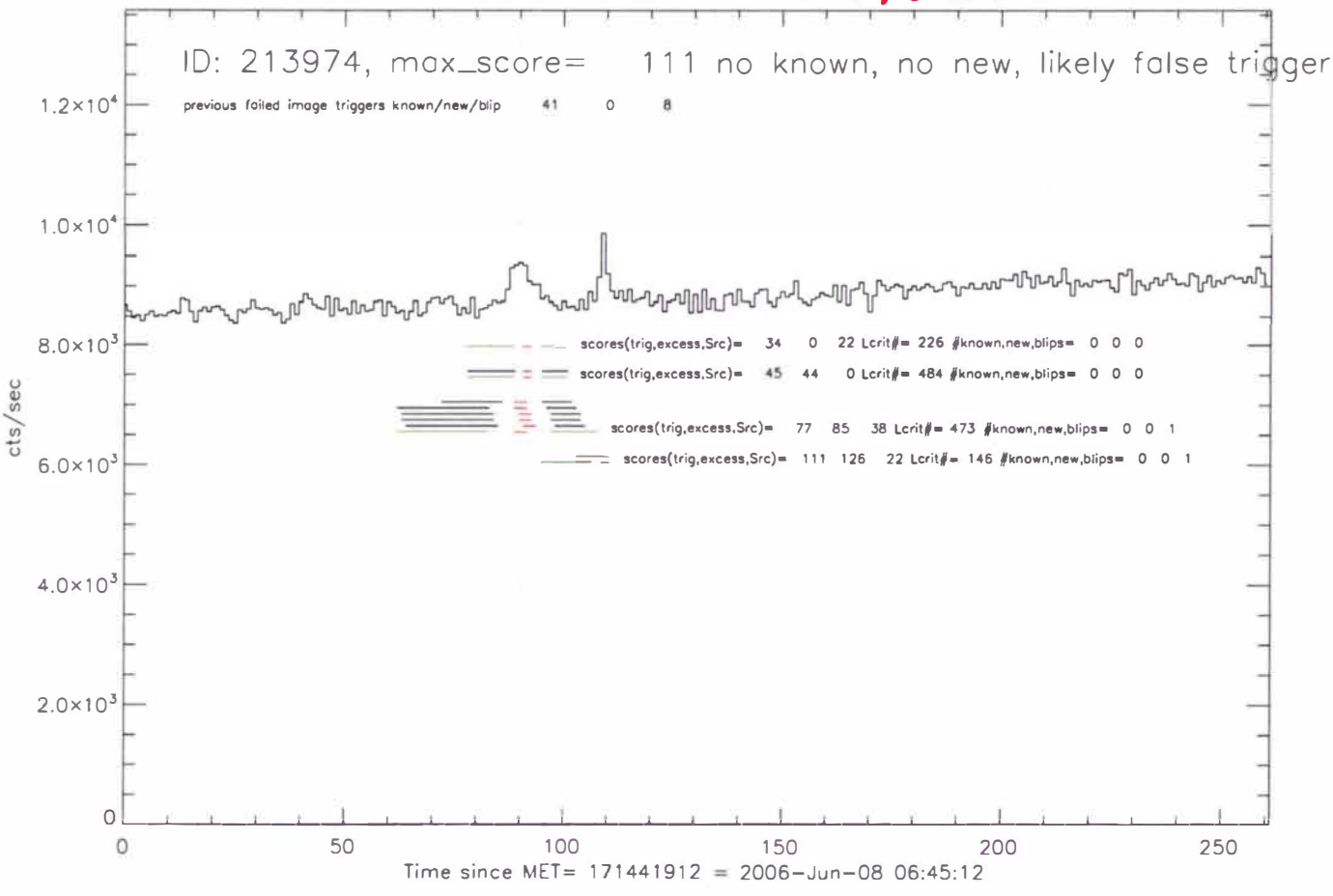
HESSI 07/06/06 84564.000 (GSwift-BAT_213934_0_20060607_

25- 150 keV

B

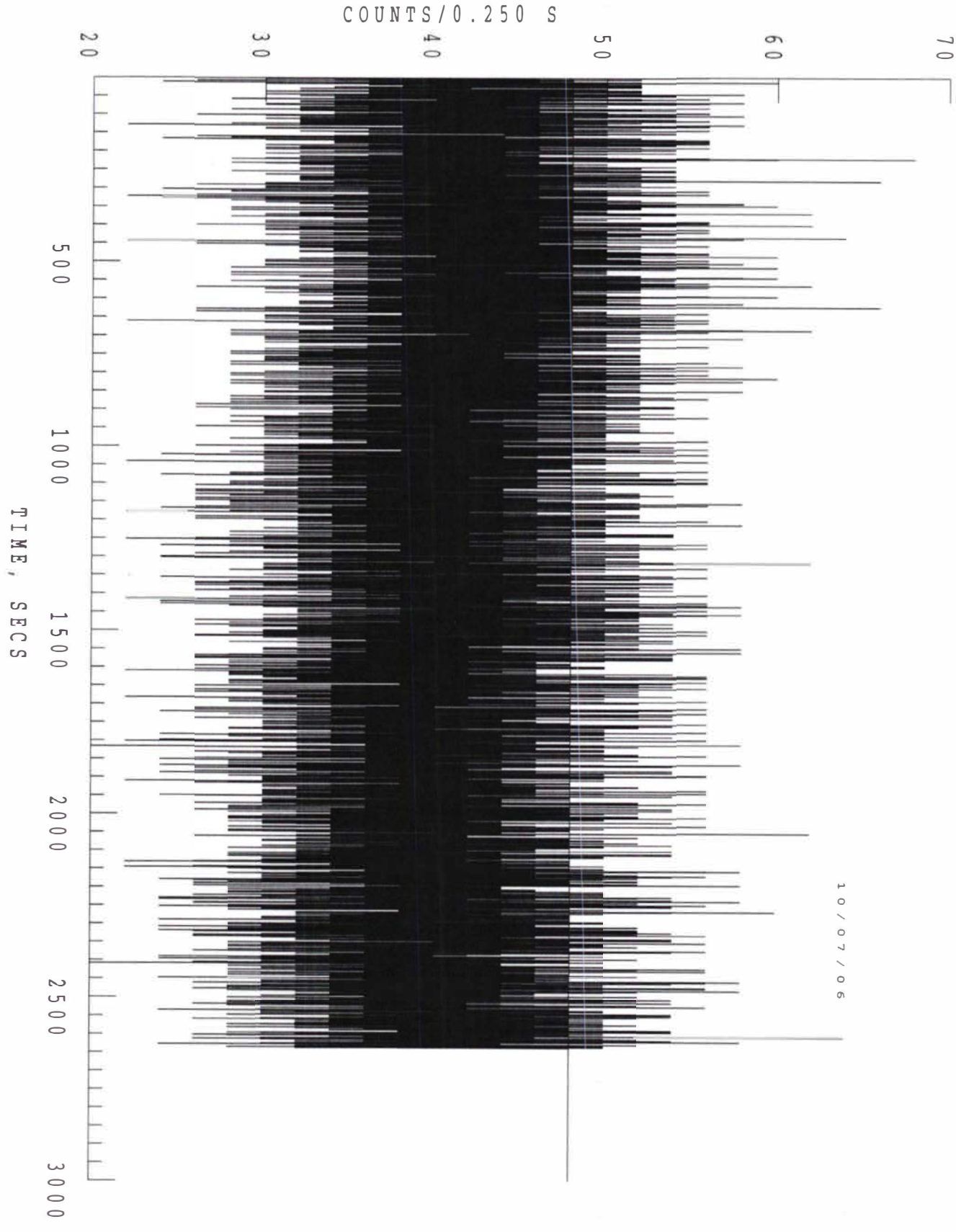


Swift 24402 s



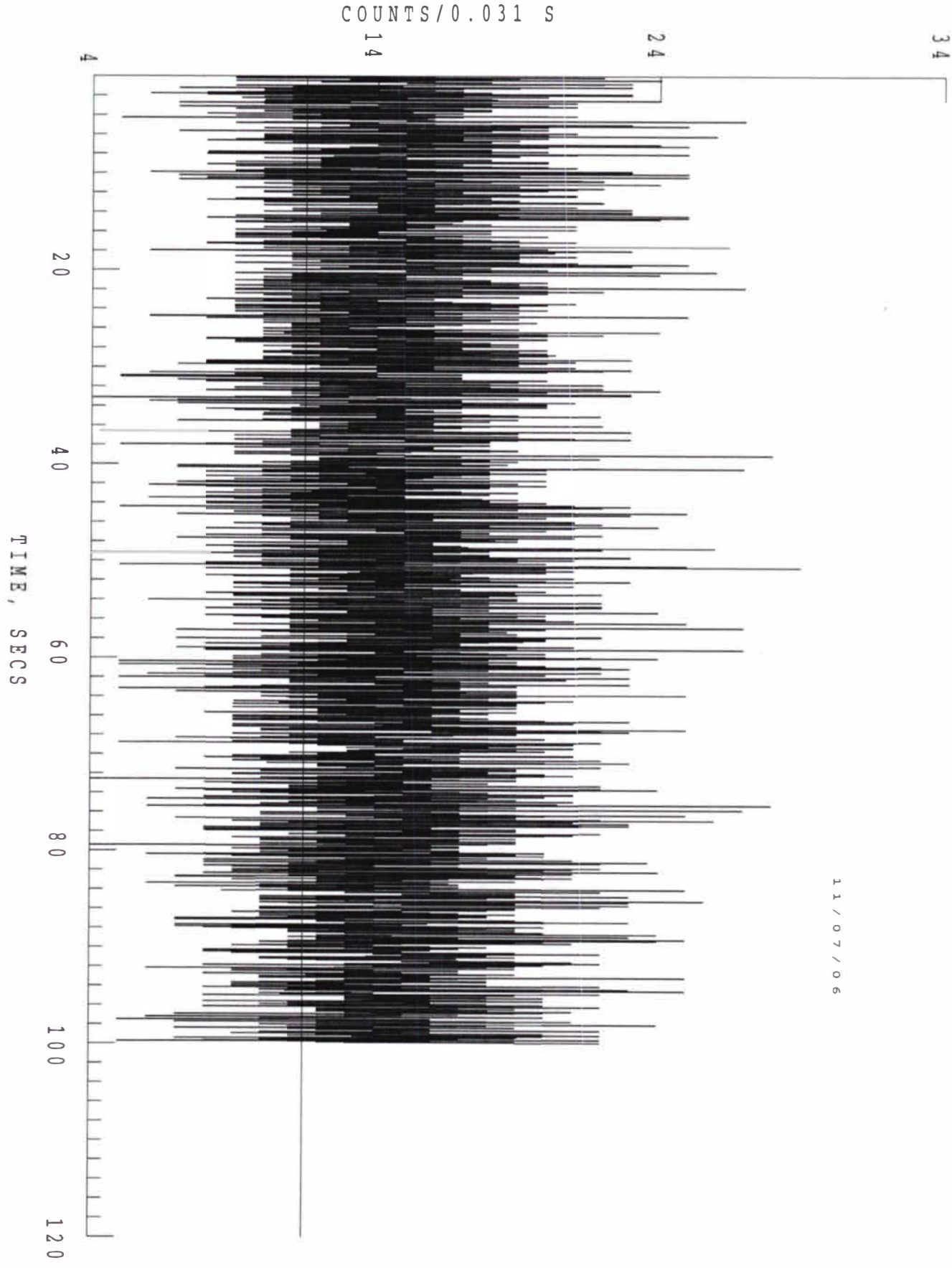
MS01 08/06/06 23039.492

50- 3000 keV



HESSI 08/06/06 24352.000 (20060608_24402)

25- 150 keV



From yamaoka@phys.aoyama.ac.jp Tue Jun 13 22:57:11 2006
X-ASG-Debug-ID: 1150264640-2dc1005f0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: scmailgw2.scop.aoyama.ac.jp[133.2.251.195]
X-Barracuda-Start-Time: 1150264640
To: palmer@lanl.gov
Cc: craigm@milkyway.gsfc.nasa.gov, derek@milkyway.gsfc.nasa.gov,
        dmpalmer@mac.com, efenimore@lanl.gov, gehrels@gsfc.nasa.gov,
        jayc@milkyway.gsfc.nasa.gov, koss@milkyway.gsfc.nasa.gov,
        krimm@milkyway.gsfc.nasa.gov, lmb@milkyway.gsfc.nasa.gov,
        kmclean@lanl.gov, parsons@milkyway.gsfc.nasa.gov,
        scott@milkyway.gsfc.nasa.gov, tueller@milkyway.gsfc.nasa.gov,
        michael@milkyway.gsfc.nasa.gov, khurley@ssl.berkeley.edu,
        news-hxd-ipn@amalthea.phys.s.u-tokyo.ac.jp,
        ohno@hirax7.hepl.hiroshima-u.ac.jp, val@mail.ioffe.ru
Cc: yamaoka@phys.aoyama.ac.jp
X-ASG-Orig-Subj: Re: Possible bursts in past week and half
Subject: Re: Possible bursts in past week and half
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
Date: Wed, 14 Jun 2006 14:57:09 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
X-Dispatcher: imput version 20000228(IM140)
X-Barracuda-Bayes: INNOCENT GLOBAL 0.2075 1.0000 -0.7884
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-Barracuda-Spam-Report: Code version 3.02, rules version 3.0.14778
        Rule breakdown below pts rule name   description
        ---- ---------------------- --

Dear David,

> Possible out-of-FOV burst 5k counts/8 seconds at 171013296 ->
> 2006-06-03 07:41:36 (trigger #213246) while pointing at [267.392,
> -28.147 107.513]

Detected by Konus.
No detections with the WAM.
It was discussed by Val as a huge flare of Cyg X-1.

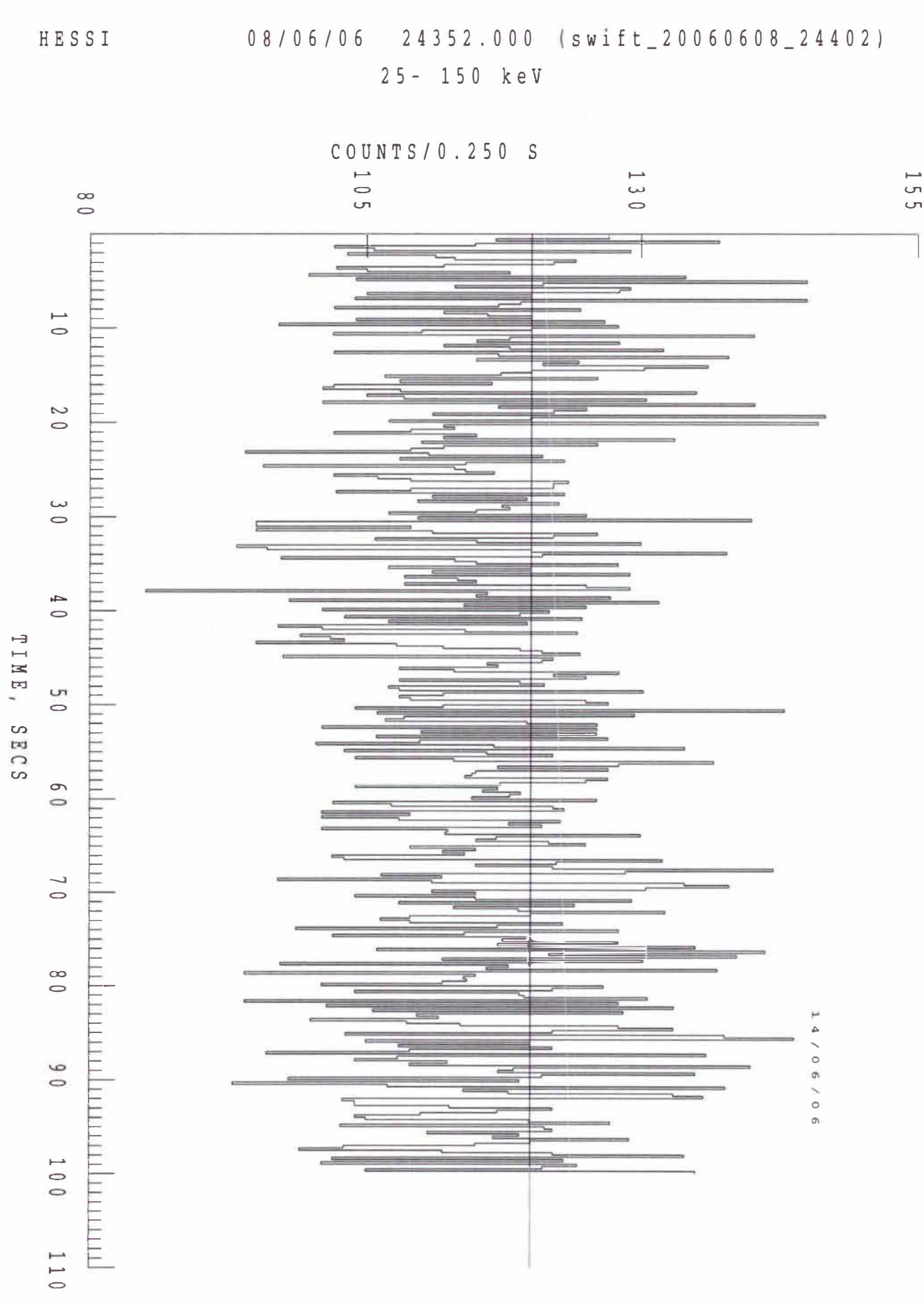
> Possible in-or-out-of-FOV burst double-peaked: 860/2s, 740/1s
> (trigger #213974) at 171442002 -> 2006-06-08 06:46:42 while pointing
> at [267.412, -28.161 103.498].
> 6.2 sigma blip found for first peak at (250.152,-65.848) with image
> intensity consistent with rate excess. Further analysis of event
> data can confirm or refute this.

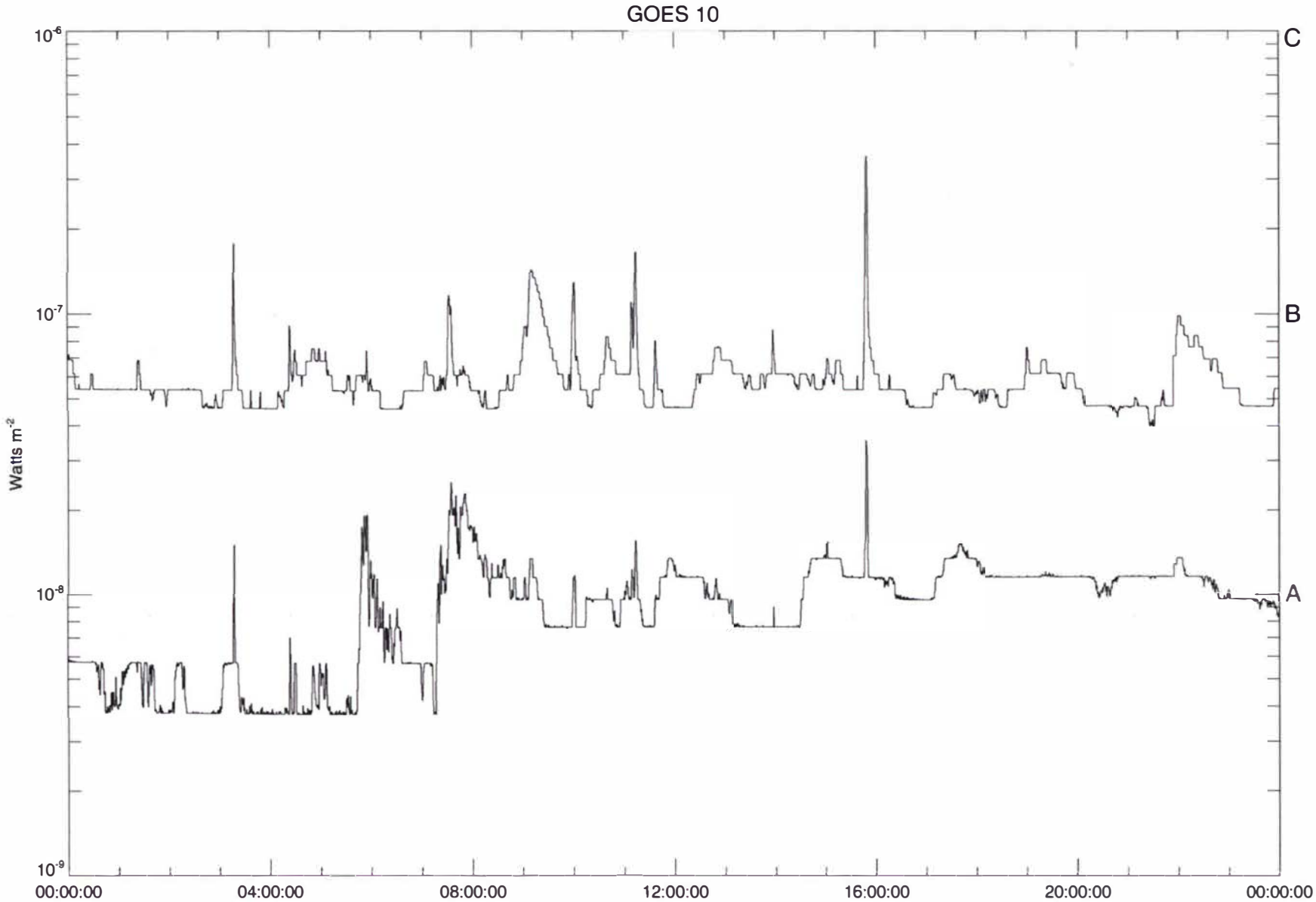
No detections with the WAM.

> Possible GRB during slew about 15 seconds long starting at 171782438
> -> 2006-06-12 05:20:38

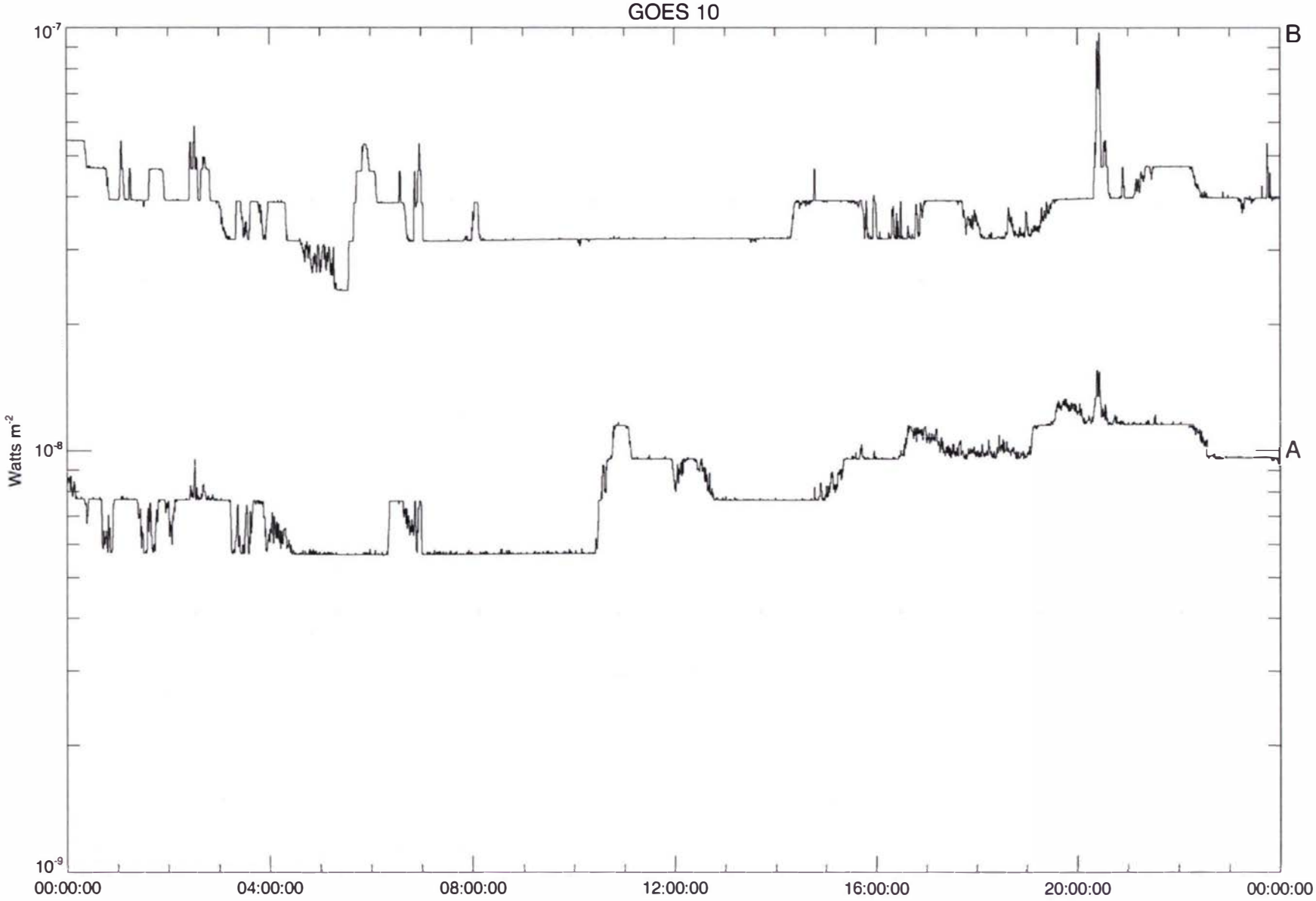
Detected by INTEGRAL SPI-ACS.
The WAM was off during the SAA.

Best regards,
Kazu
on behalf of the WAM team


HESSI 08/06/06 24352.000 (swift_20060608_24402)
25- 150 keV
COUNTS/0.250 S
80
105
130
155
10
20
30
40
50
60
70
80
90
100
110
TIME, SECS
14/06/06



Data Start: 06/06/08, 0000:00 Plot created: 06/06/11, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10



Data Start: 06/06/09, 0000:00 Plot created: 06/06/12, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

```
From vxw@capella.gsfc.nasa.gov Fri Jun  9 23:58:48 2006
X-ASG-Debug-ID: 1149922753-2dd0005d0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: capella.gsfc.nasa.gov[128.183.16.187]
X-Barracuda-Start-Time: 1149922753
X-ASG-Whitelist:  Sender
Date: Sat, 10 Jun 2006 02:59:12 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: GCN/SWIFT_BAT_LIGHTCURVE
Subject: GCN/SWIFT_BAT_LIGHTCURVE
Mime-Version: 1.0
Content-Disposition: inline
User-Agent: Mutt/1.4.2.1i
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

TITLE:            GCN/SWIFT NOTICE
NOTICE_DATE:      Sat 10 Jun 06 06:58:22 UT
NOTICE_TYPE:      Swift-BAT GRB Lightcurve
TRIGGER_NUM:      214277,   Seg_Num: 0
GRB_RA:           286.791d {+19h 07m 10s} (J2000),
                  286.868d {+19h 07m 28s} (current),
                  286.194d {+19h 04m 47s} (1950)
GRB_DEC:           +9.323d {+09d 19' 22"} (J2000),
                   +9.333d {+09d 19' 59"} (current),
                   +9.244d {+09d 14' 37"} (1950)
GRB_DATE:         13896 TJD;   161 DOY;   06/06/10
GRB_TIME:         24781.02 SOD {06:53:01.02} UT
TRIGGER_INDEX:    10313
 RB_PHI:          -169.38 [deg]
,RB_THETA:         41.92 [deg]
DELTA_TIME:       12.00 [sec]
TRIGGER_DUR:      0.032 [sec]
SOLN_STATUS:      0x103
RATE_SIGNIF:      11.31 [sigma]
IMAGE_SIGNIF:     7.24 [sigma]
LC_URL:           sw00214277000msb.lc
SUN_POSTN:         78.34d {+05h 13m 21s}  +23.00d {+23d 00' 18"}
SUN_DIST:         137.27 [deg]   Sun_angle= 10.1 [hr] (West of Sun)
MOON_POSTN:       237.99d {+15h 51m 58s}  -24.57d {-24d 34' 27"}
MOON_DIST:         58.48 [deg]
MOON_ILLUM:       98 [%]
GAL_COORDS:        43.01,  0.78 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS:       289.56, 31.63 [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 matches a source in the ground catalog: SGR1900+14,   delt
COMMENTS:         This is not a GRB.
COMMENTS:         This trigger occurred at longitude,latitude = 219.22,2.49 [deg]
```

SGR1900

From gcncirc@capella.gsfc.nasa.gov Sat Jun 10 15:08:55 2006
X-ASG-Debug-ID: 1149977360-266f000d0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
'-Barracuda-Connect: capella.gsfc.nasa.gov[128.183.16.187]
 -Barracuda-Start-Time: 1149977360
X-ASG-Whitelist: Sender
From: GCN Circulars <gcncirc@capella.gsfc.nasa.gov>
X-ASG-Orig-Subj: BAT Trigger #214277 is SGR 1900+14
Subject: BAT Trigger #214277 is SGR 1900+14
To: khurley@ssl.berkeley.edu
Date: Sat, 10 Jun 2006 18:09:20 -0400 (EDT)
Project: GCN (GRB Coordinates Network)
Phone: 301-286-3106 (voice) (-1684 fax)
Pager: 3013463733@mmode.com
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

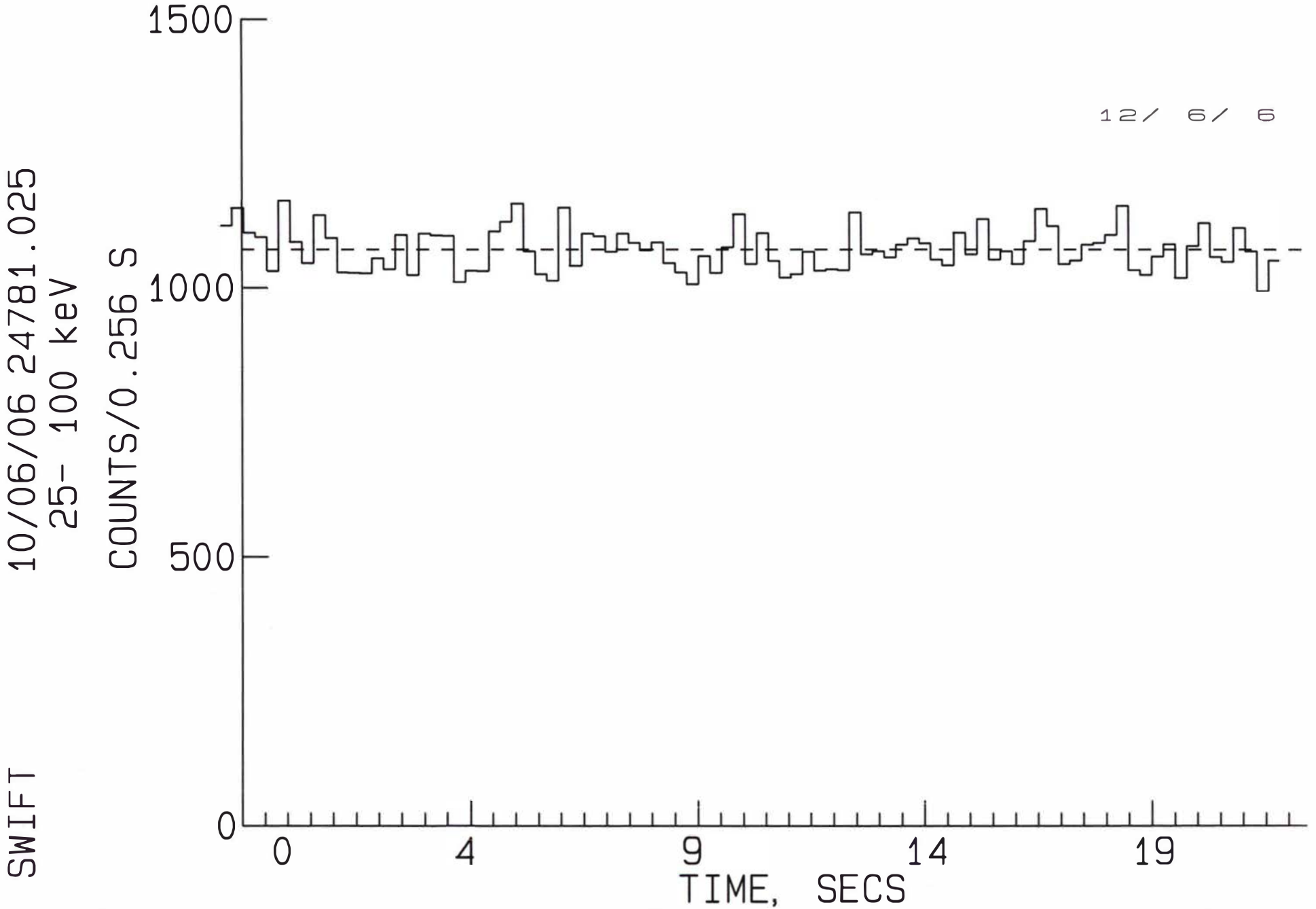
TITLE: GCN GRB OBSERVATION REPORT
NUMBER: 5250
SUBJECT: BAT Trigger #214277 is SGR 1900+14
DATE: 06/06/10 22:09:04 GMT
FROM: Jay R. Cummings at NASA/GSFC/Swift <jayc@milkyway.gsfc.nasa.gov>

J. R. Cummings (NASA/ORAU), G. Cusumano (INAF-IASFPA),
V. La Parola (INAF-IASFPA), K. M. McLean (LANL/UTD),
T. Mineo (INAF-IASFPA), G. Sato (GSFC/ISAS),
M. Stamatikos (NASA/ORAU) and E. Troja (INAF-IASFPA) report on behalf
of the Swift Team:

At 06:53:01 UT, the Swift Burst Alert Telescope (BAT) triggered and
located a short soft burst (trigger=214277). Swift slewed immediately
to the source. The BAT on-board calculated location is
RA,Dec 286.791, +9.323 {19h 07m 10s, +09d 19' 22"} (J2000)
with an uncertainty of 3 arcmin (radius, 90% containment, including
systematic uncertainty). The BAT light curve showed a single weak peak
with a duration of < 0.032 sec. The peak count rate was ~1500 counts/sec
(15-350 keV), at ~0 sec after the trigger.

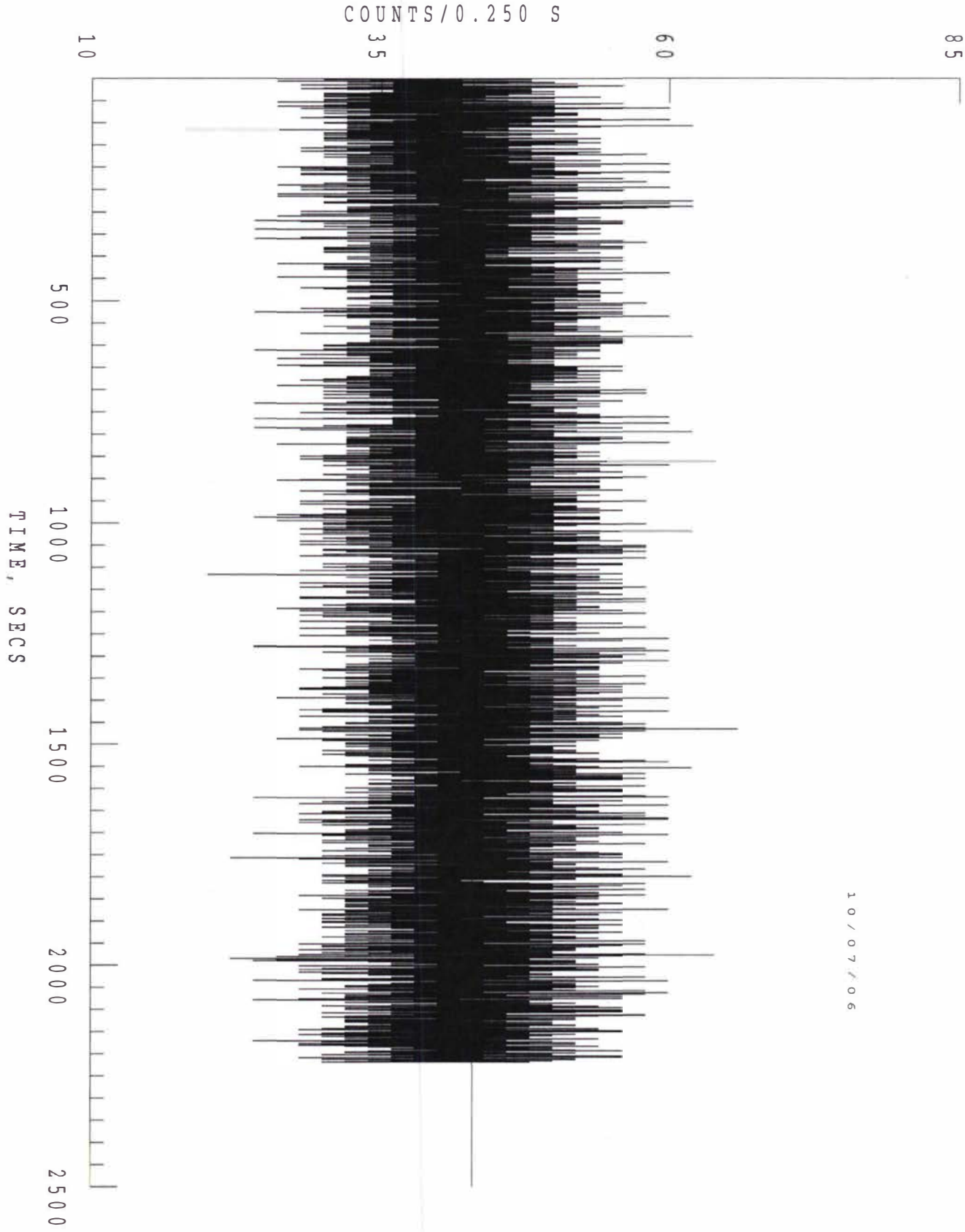
As stated in the GCN Notice corresponding to this trigger, the source is
coincident with SGR 1900+14. The short, soft emission is completely
consistent with the previous characteristics of the SGR. This is the
first BAT onboard detection of this source since 2006-04-14.

The XRT began taking data at 06:54:50 UT, 110 seconds after the BAT
trigger. XRT PC data of the first orbit (exposure 2264.7 s) shows
a source at the SGR position with a constant rate of (5.8+/-0.5)E-2 c/s
consistent with the quiescent state of the source. The source rate
corresponds to an unabsorbed (0.2-10 keV) flux of
(2.0+/-0.2)E-11 erg cm**-2 s**-1.


SWIFT
10/06/06 24781.025
25- 100 keV
COUNTS/0.256 S
1500
1000
500
0
0
4
9
14
19
TIME, SECS
12/ 6/ 6

MS01 10/06/06 23456.331

50- 3000 keV



10/07/06

From williams@sunspot.ssl.berkeley.edu Sat Jun 10 06:18:32 2006
X-ASG-Debug-ID: 1149945537-4ce500030000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
 -Barracuda-Connect: gammaburst.SSL.Berkeley.EDU[128.32.98.141]
 -Barracuda-Start-Time: 1149945537
Date: Sat, 10 Jun 2006 06:27:06 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: No_RHESSI_data_for_GSwift-BAT_214277_0_20060610_24780
Subject: No_RHESSI_data_for_GSwift-BAT_214277_0_20060610_24780
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-ASG-Whitelist: Sender (Per-User)

HESSI 25 to 150 keV Counts
Created 10-Jun-2006 06:17:37.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0312500
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

Date: Dec 21 2006

BURST TRIANGULATION CHECKLIST

1. Ulysses Data N/A

☐ Jim Schmidling's stat file correction applied?

☐ Final ephemeris used?

☐ Final, CDROM data used?

☐ Is the order of the data in CORREL such that a vernier is done on the data with the best time resolution?

2. For Konus events

☑ Konus ecliptic latitude used with latest calibration?

2. 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? No

☐ For cruise phase data (April – October 2001), was the updated data used? (Old data has timing errors) N/A

☑ 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?

2. For 3 or More Spacecraft events

☑ Σ 3Δt's calculated, and/or BMAPSUM executed?

3. 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?

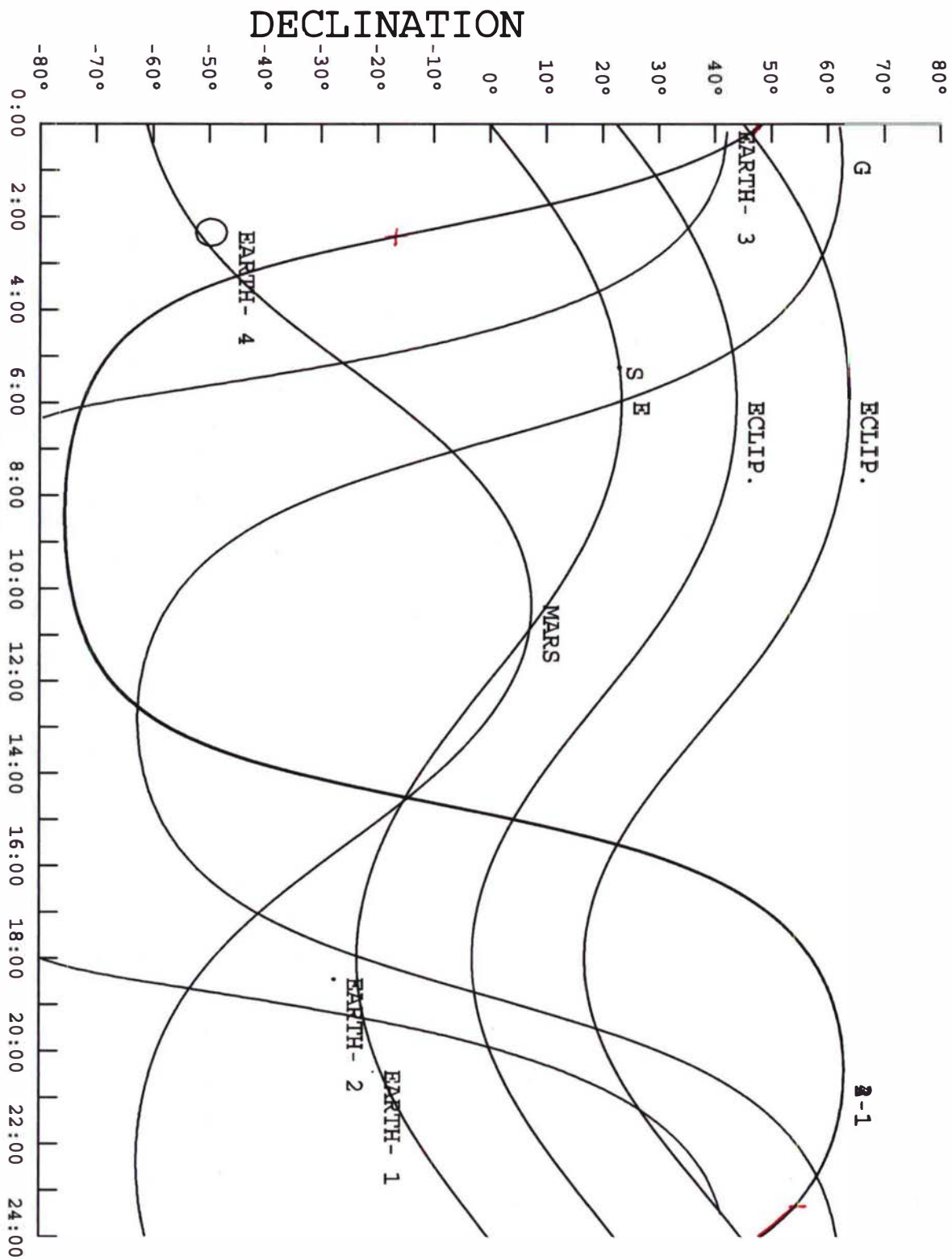
☑ ACCESS and MBL4 databases updated?

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

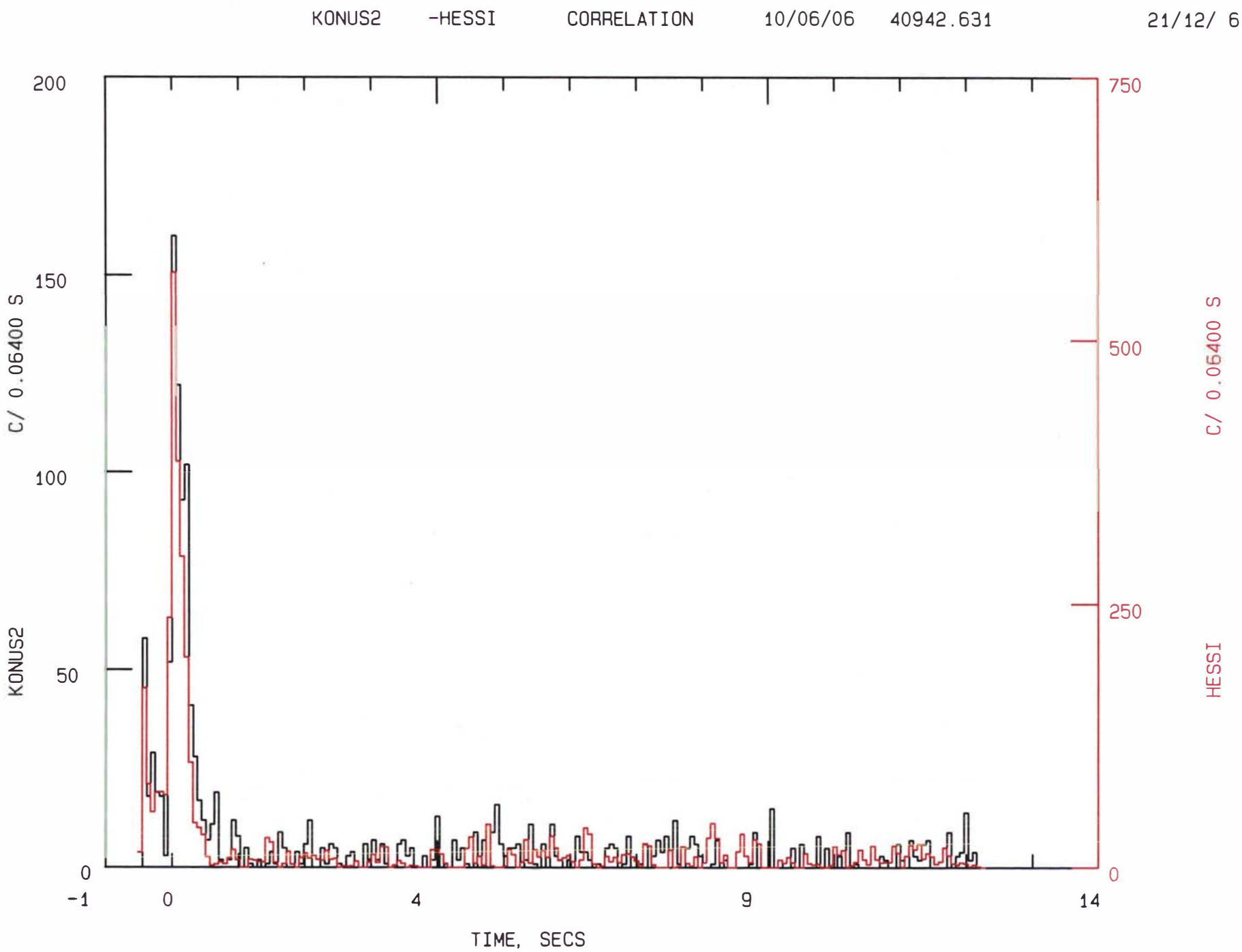
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR

1 MO 2 KONUS2 3 SUZAKU 4 INTEGRAL

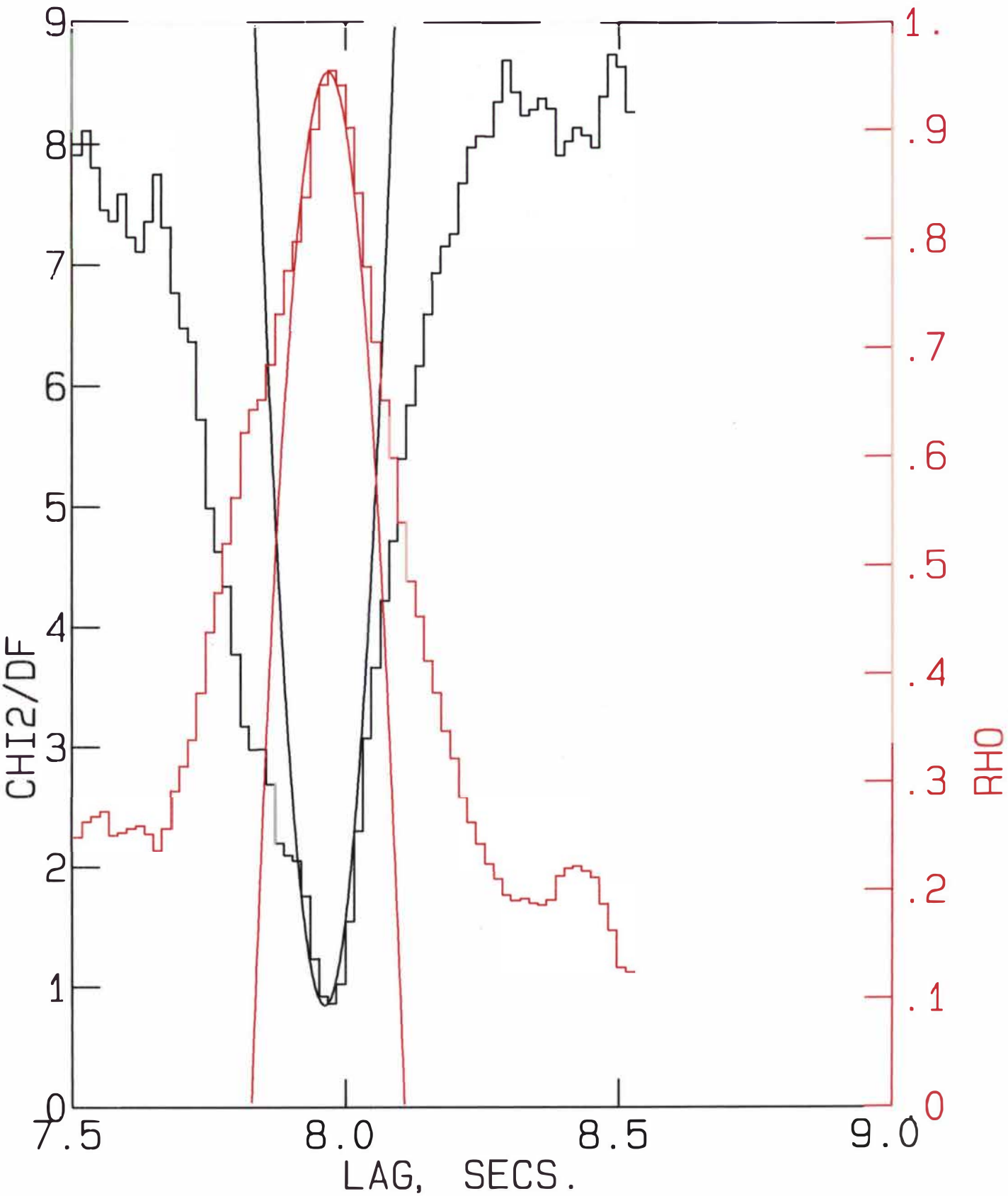


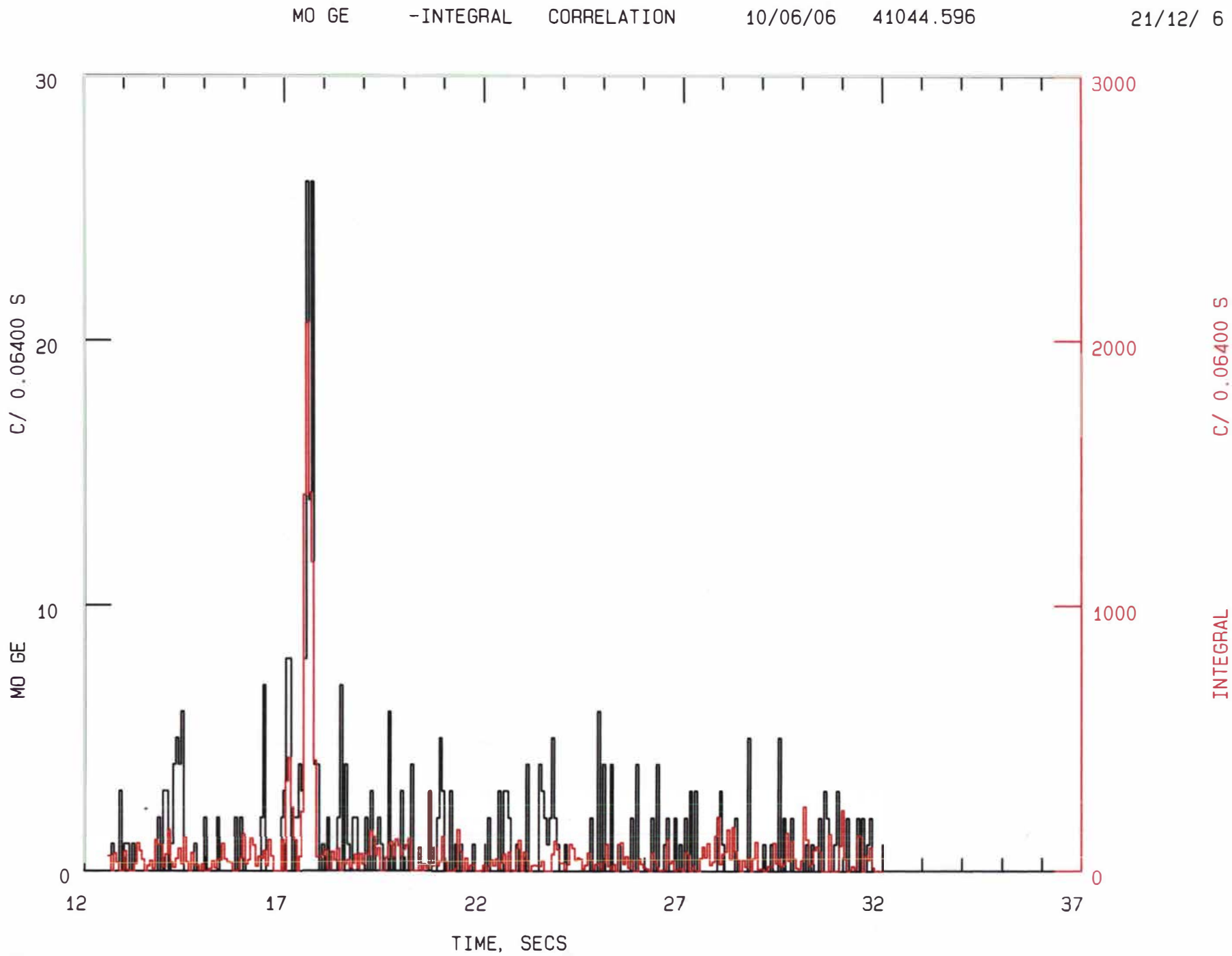
EVENT OF JUN 10, 2006 11:24

21/12/ 6

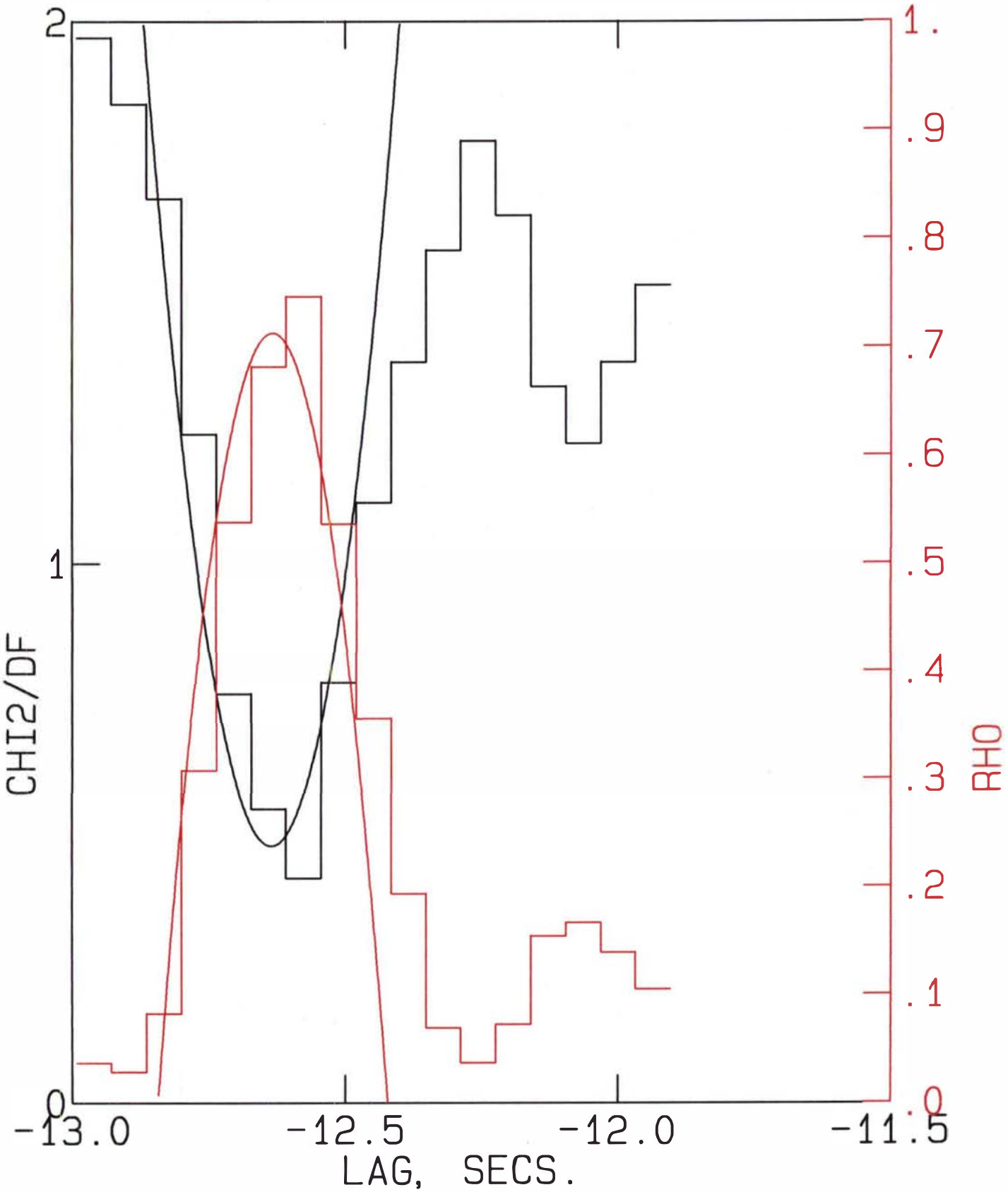

KONUS2 -HESSI CORRELATION 10/06/06 40942.631 21/12/ 6
200
150
100
50
0
C/ 0.06400 S
KONUS2
750
500
250
0
C/ 0.06400 S
HESSI
-1
0
4
9
14
TIME, SECS

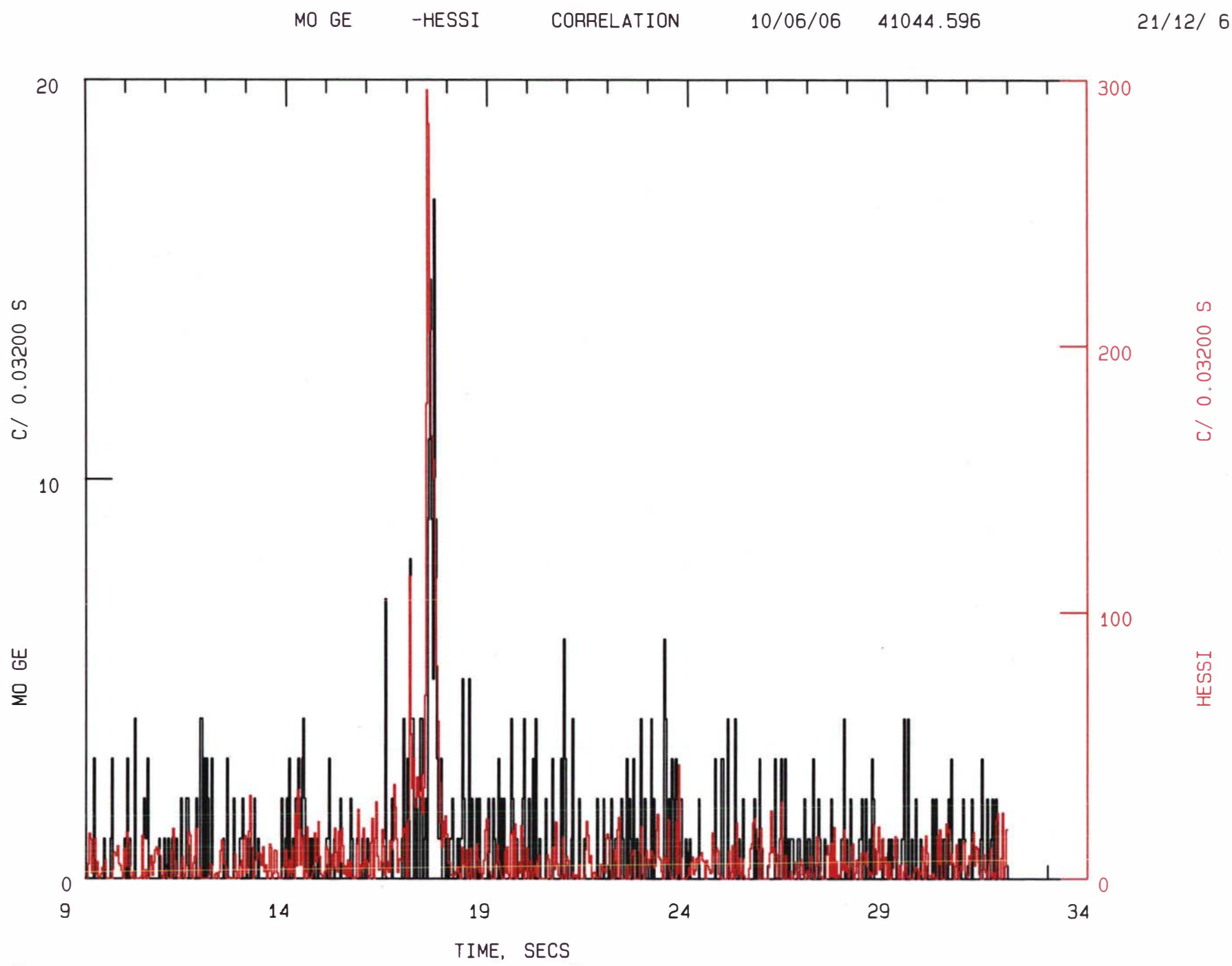
KONUS2 -HESSI CORRELATION 10/06/06 40942.631



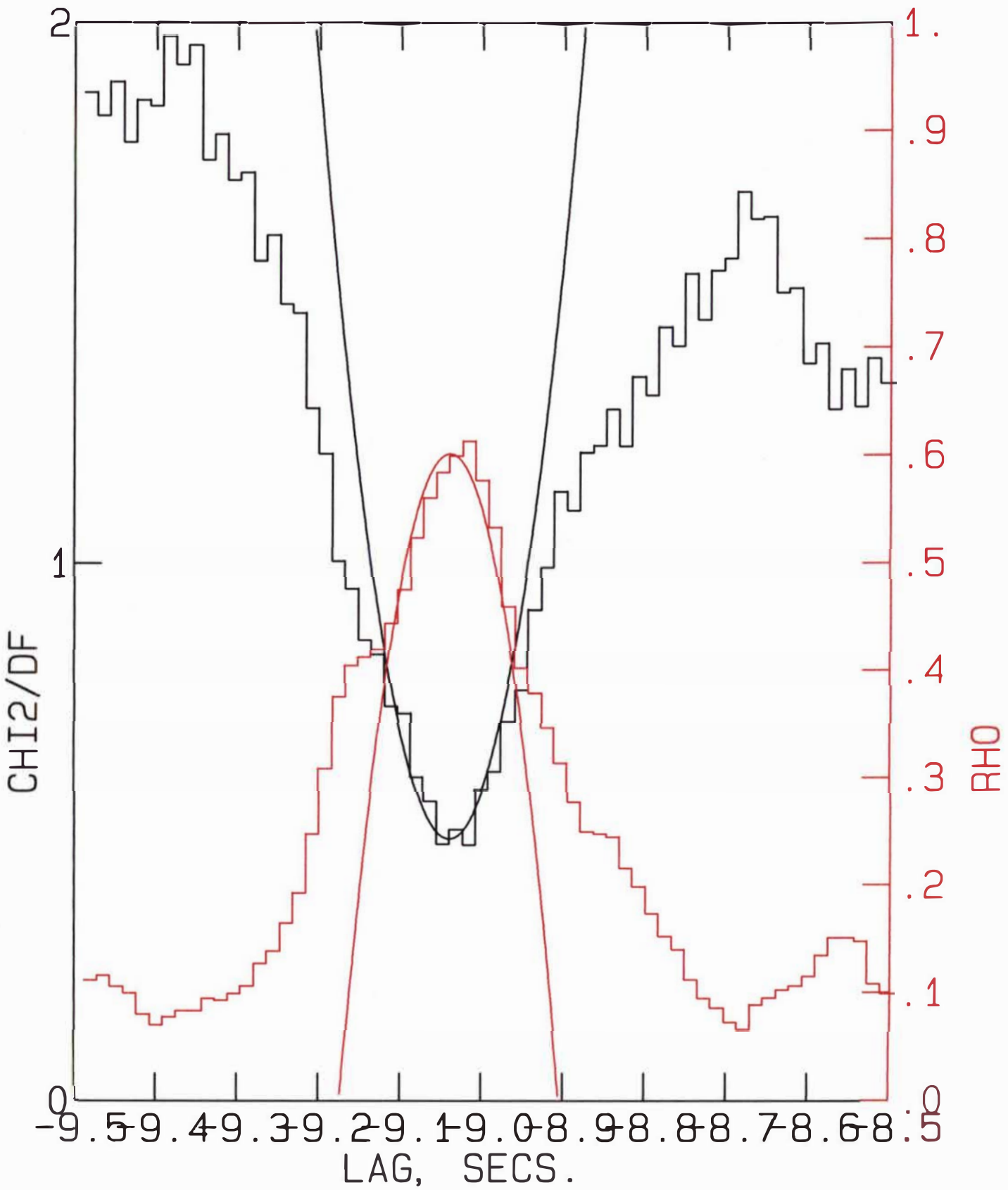

MO GE -INTEGRAL CORRELATION 10/06/06 41044.596 21/12/ 6
30
20
10
0
3000
2000
1000
0
C/ 0.06400 S
MO GE
C/ 0.06400 S
INTEGRAL
12
17
22
27
32
37
TIME, SECS

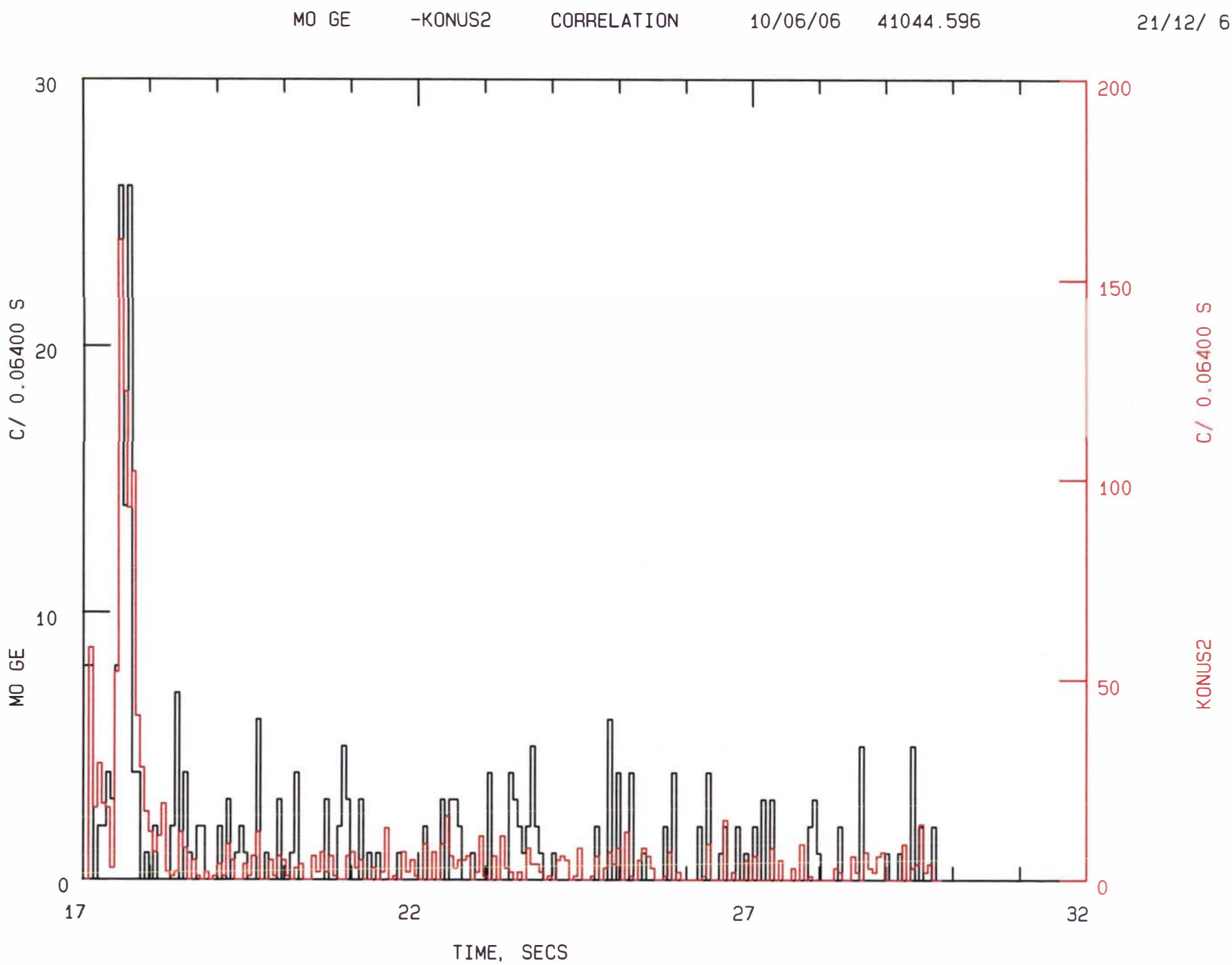
MO GE -INTEGRAL CORRELATION 10/06/06 41044.596



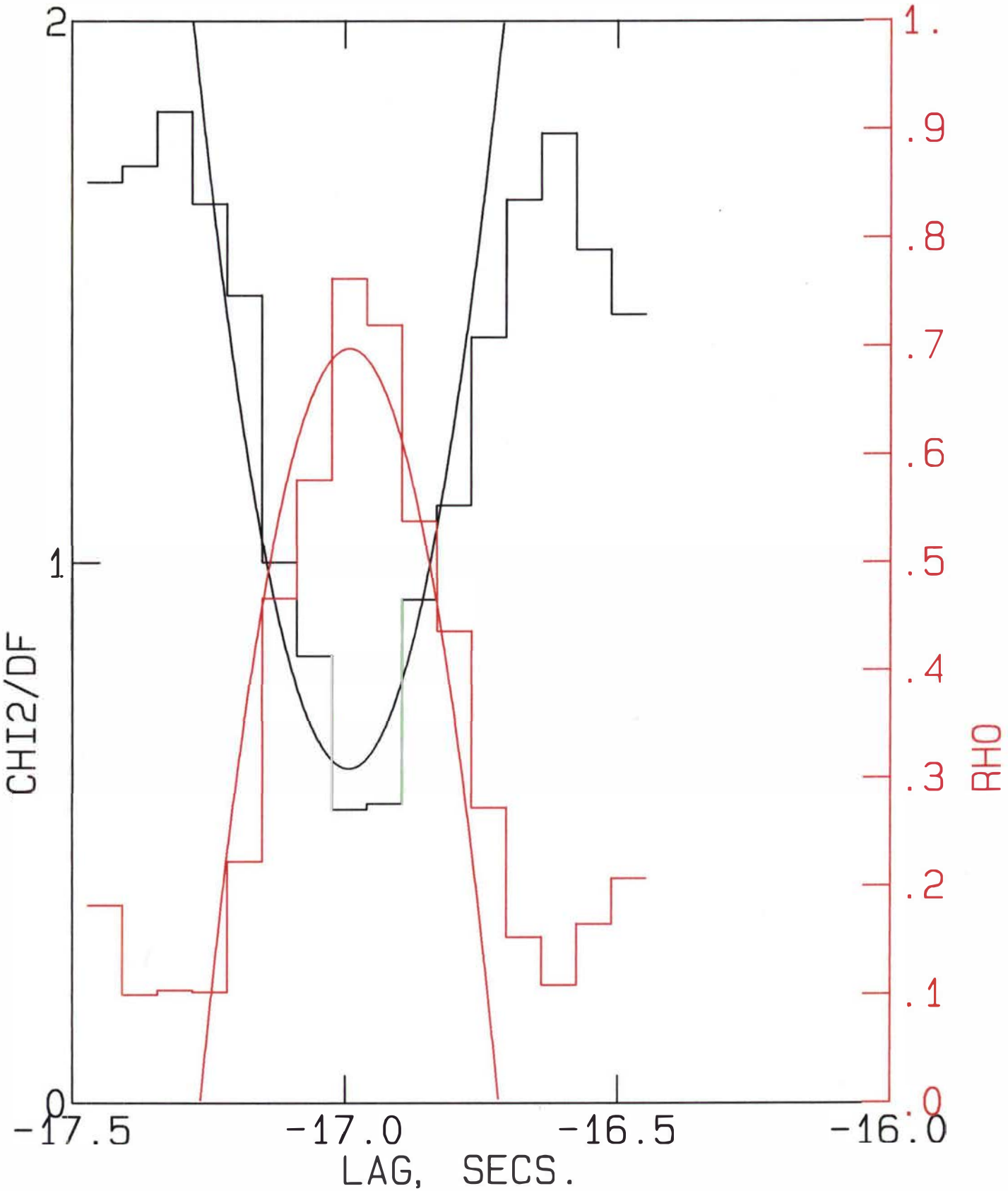

MO GE -HESSI CORRELATION 10/06/06 41044.596 21/12/ 6
20
10
0
C/ 0.03200 S
MO GE
300
200
100
0
C/ 0.03200 S
HESSI
9
14
19
24
29
34
TIME, SECS

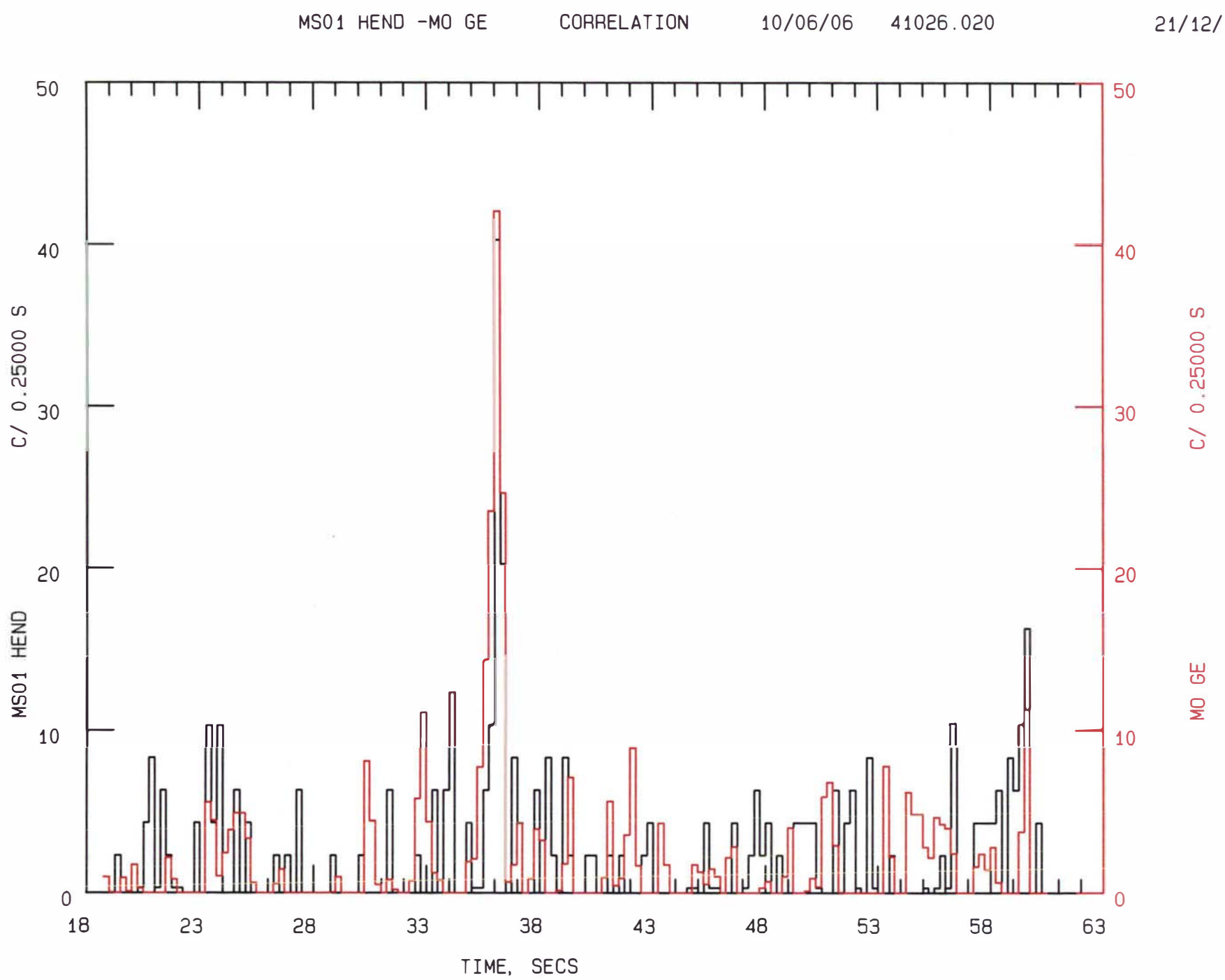
MO GE -HESSI CORRELATION 10/06/06 41044.596



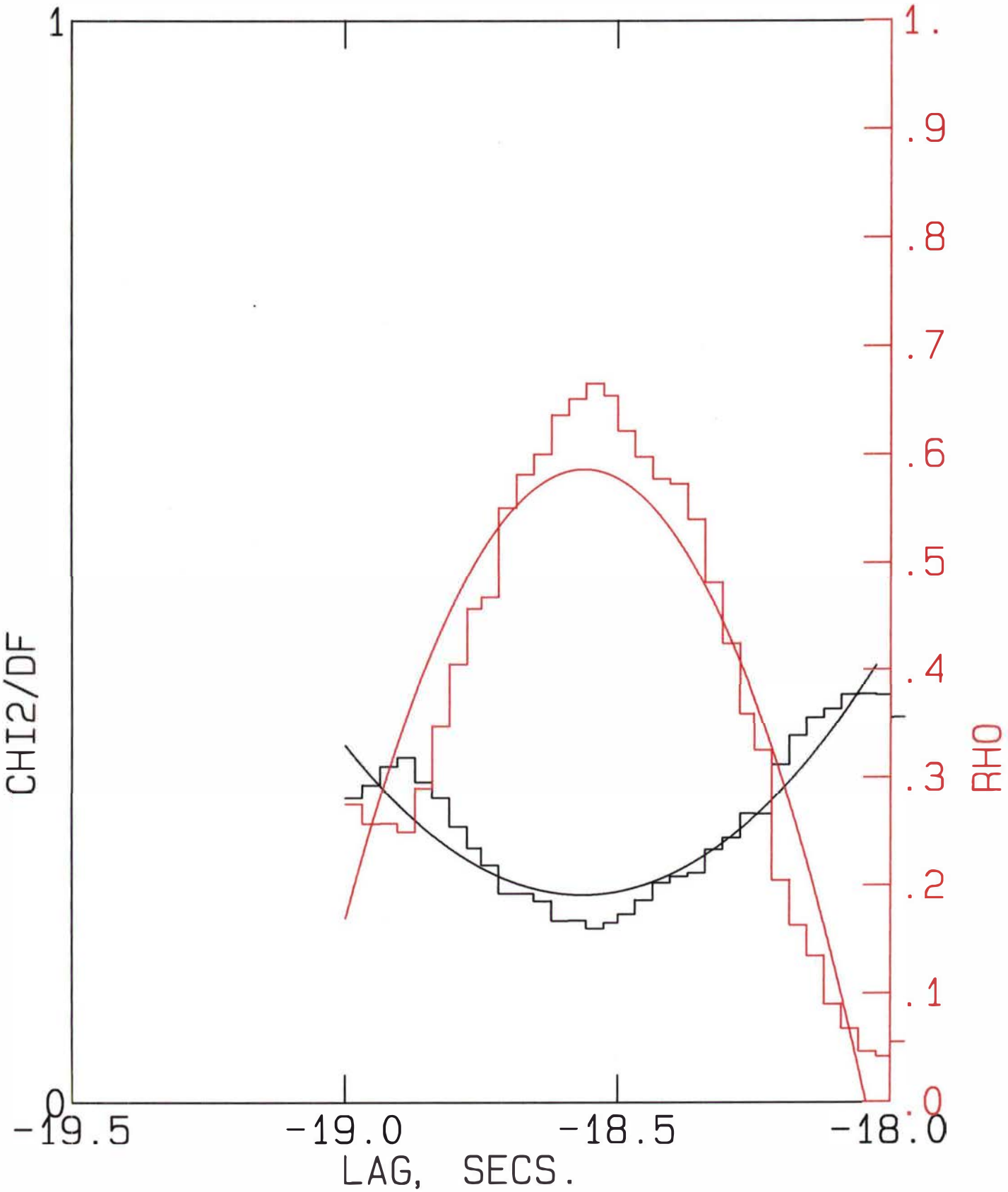

MO GE -KONUS2 CORRELATION 10/06/06 41044.596 21/12/ 6
30
20
10
0
C/ 0.06400 S
MO GE
200
150
100
50
0
C/ 0.06400 S
KONUS2
17
22
27
32
TIME, SECS

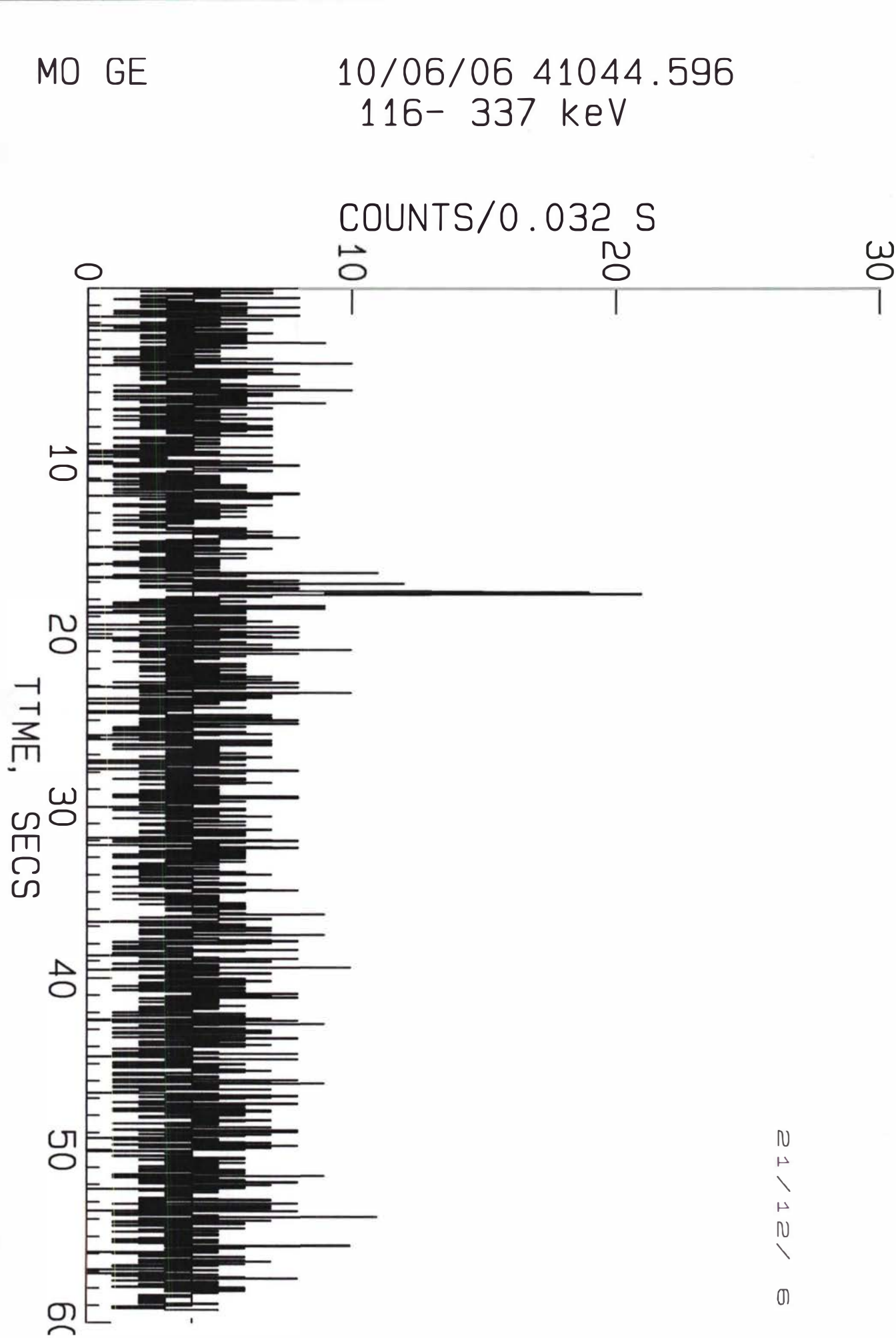
MO GE -KONUS2 CORRELATION 10/06/06 41044.596

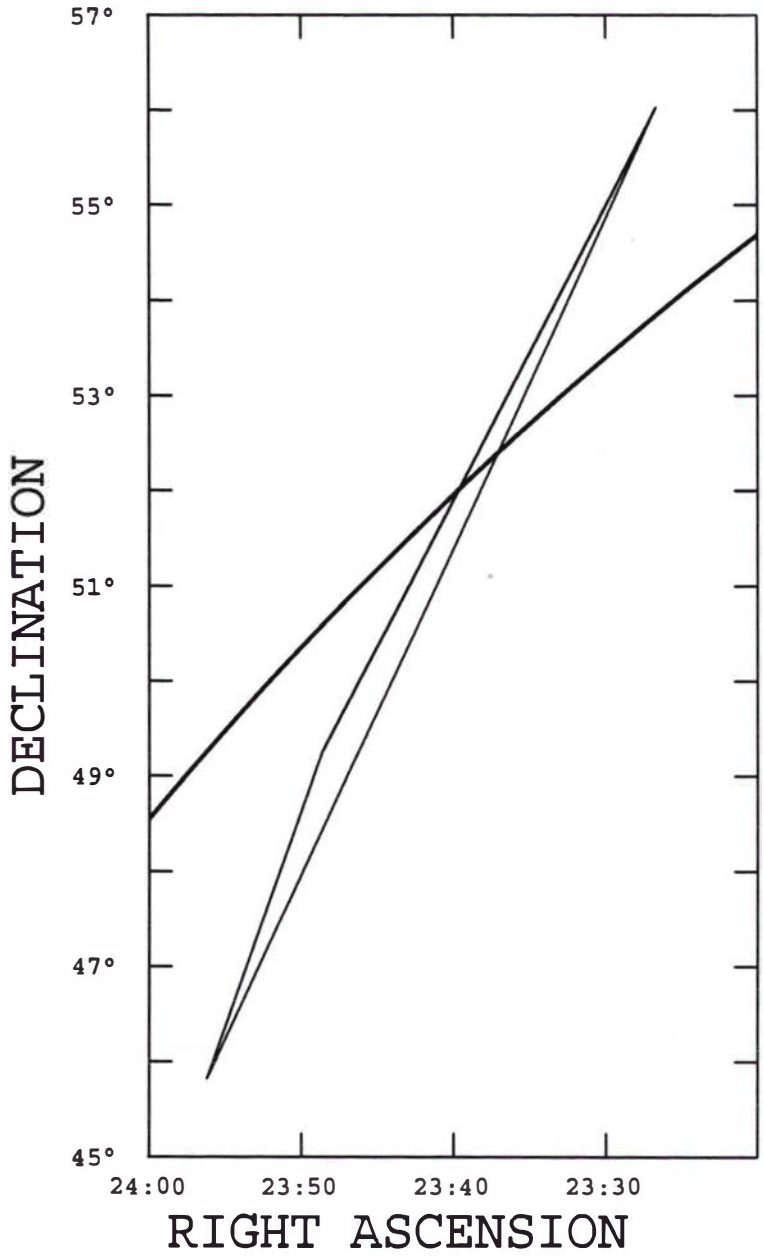



MS01 HEND -MO GE CORRELATION 10/06/06 41026.020 21/12/ 6
50
40
30
20
10
0
C/ 0.25000 S
MS01 HEND
18
23
28
33
38
43
48
53
58
63
TIME, SECS
MO GE

MS01 HEND -MO GE CORRELATION 10/06/06 41026.020



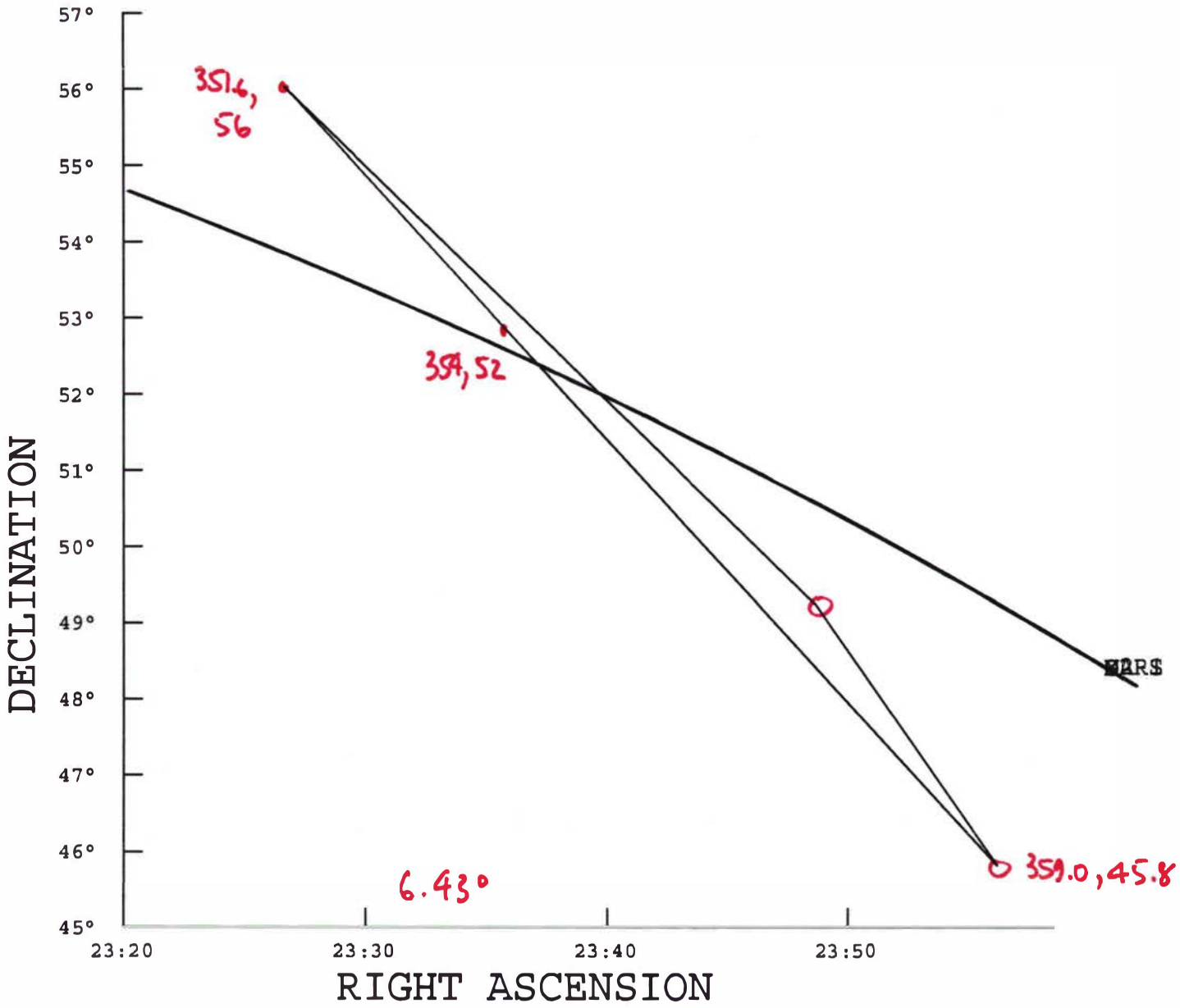

MO GE
10/06/06 41044.596
116- 337 keV
COUNTS/0.032 S
0
10
20
30
TIME, SECS
10
20
30
40
50
60

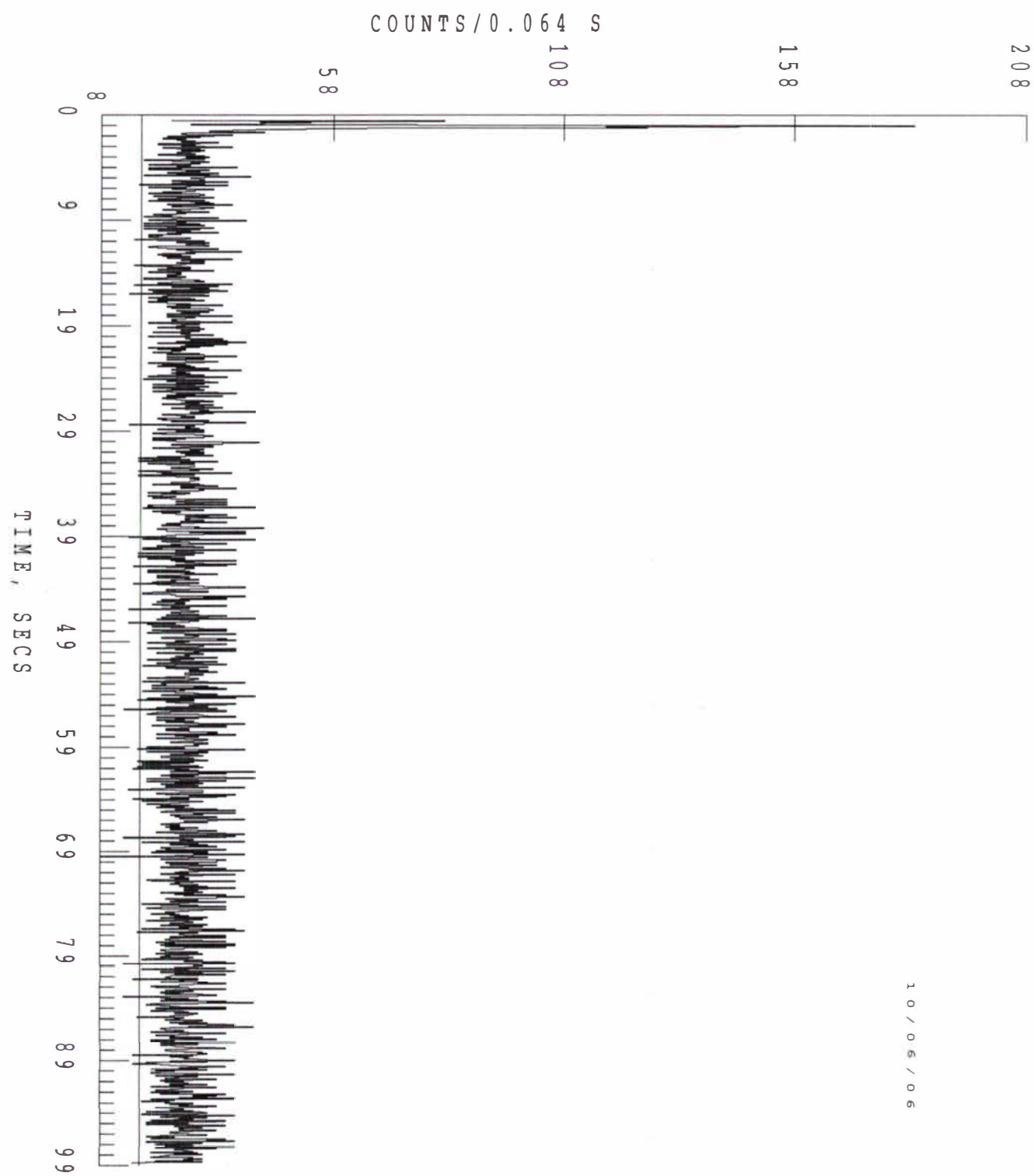

57°
55°
53°
51°
49°
47°
45°
DECLINATION
24:00
23:50
23:40
23:30
RIGHT ASCENSION

EVENT OF JUN 10, 2006 11:22

12/ 6/ 6

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




KONUS2
10/06/06
40942.631
50- 200 keV
11:22:22
COUNTS/0.064 S
8
58
108
158
208
0
9
19
29
39
49
59
69
79
89
99
TIME, SECS
10/06/06

KONUS HRES 20060610 40942

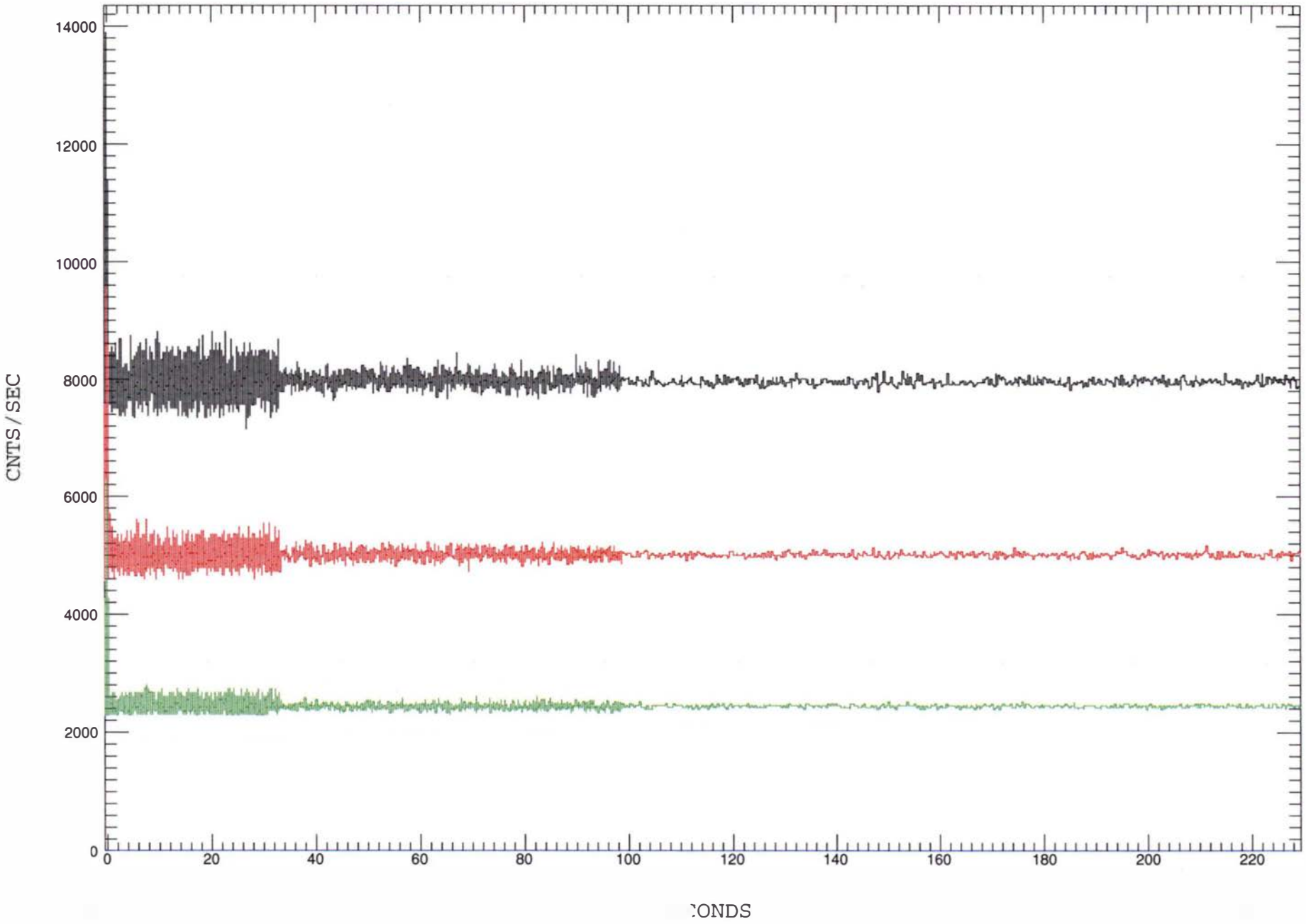
TRIGGER TIME: 10/06/06 DOY 161 Julian 2453897.97387 UT = 11.373 11:22:22 (40942.000 secs)

Chan 1 : [15 - 50 keV] Channel 1 + 6900

Chan 2 : [50 - 200 keV] Channel 2 + 4600

Chan 3 : [200 - 770 keV] Channel 3 + 2300

Chan 4 : [> 10 MeV] Channel 4 + 0

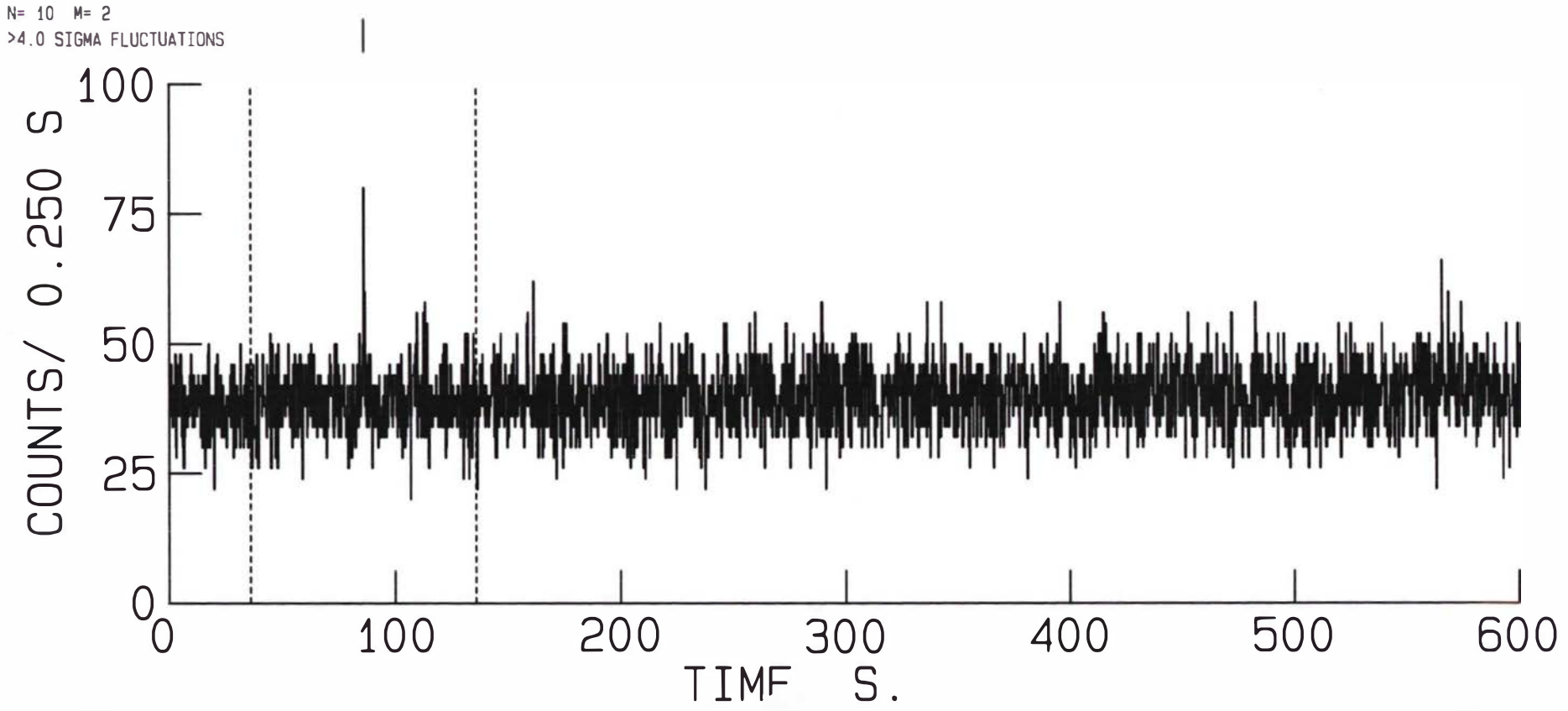


MS01 HEND

21/12/06

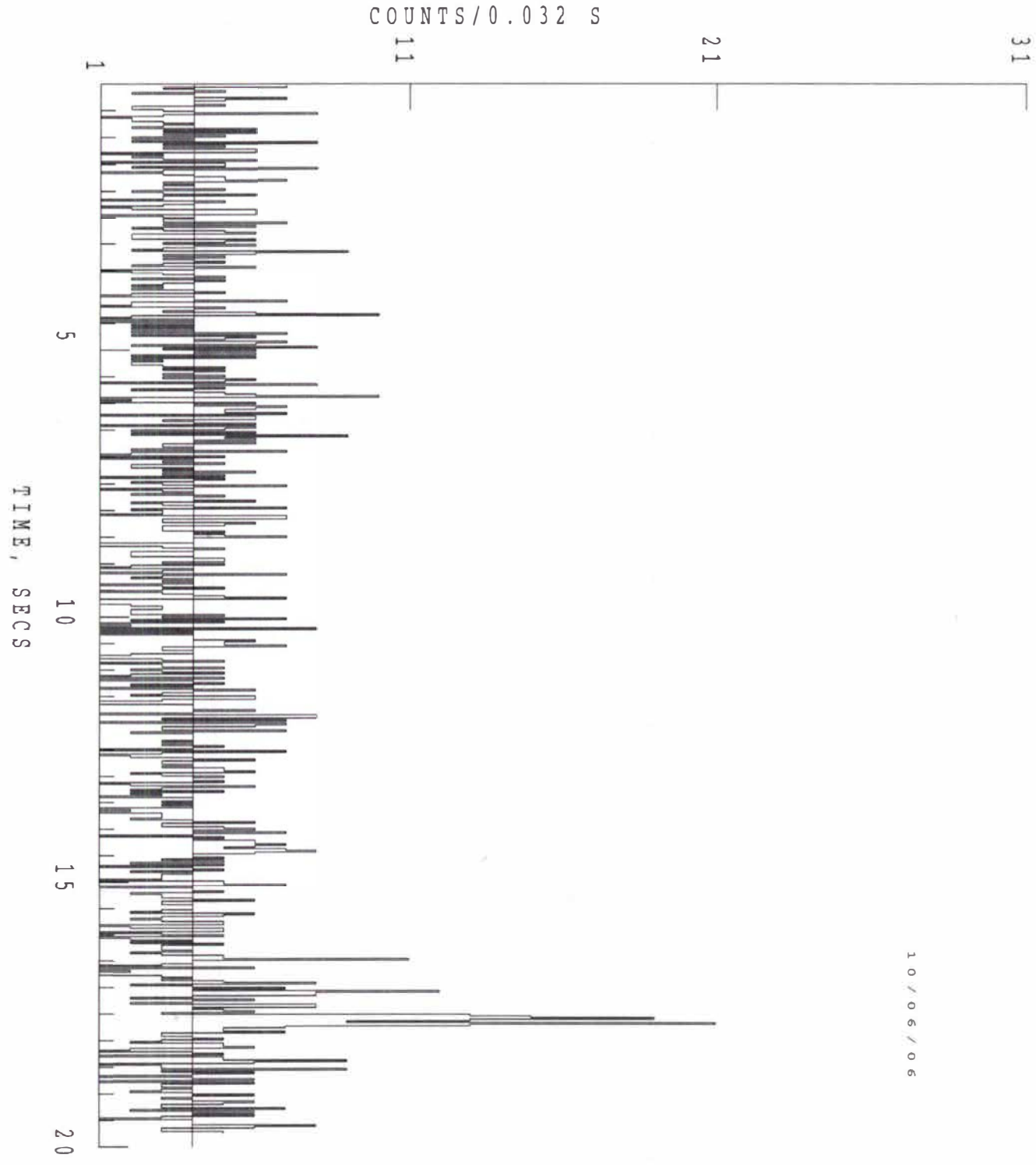
10/06/06 40976.020 s

50-3000 keV



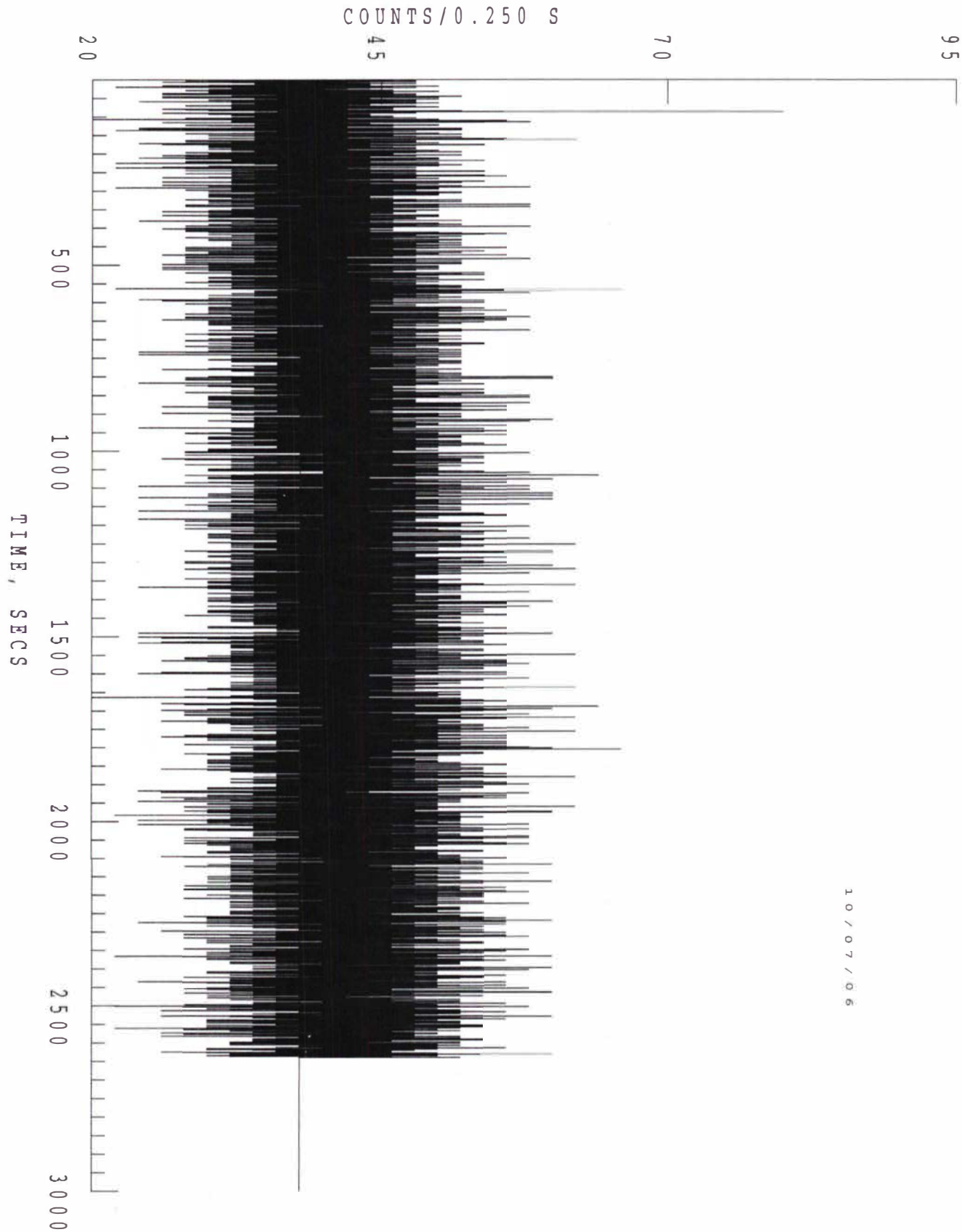
MO 10/06/06 41044.583 11:24:04

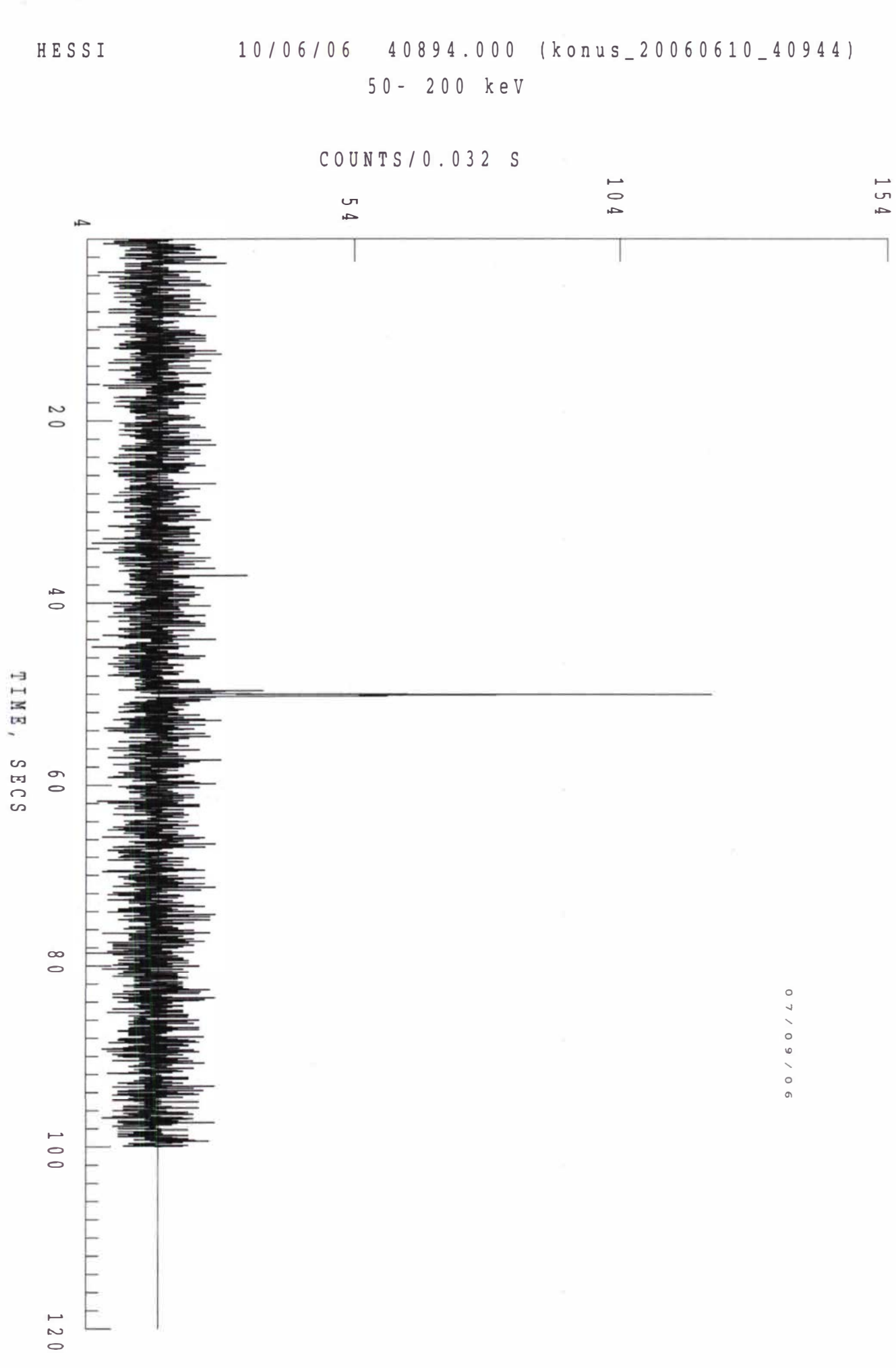
116- 337 keV

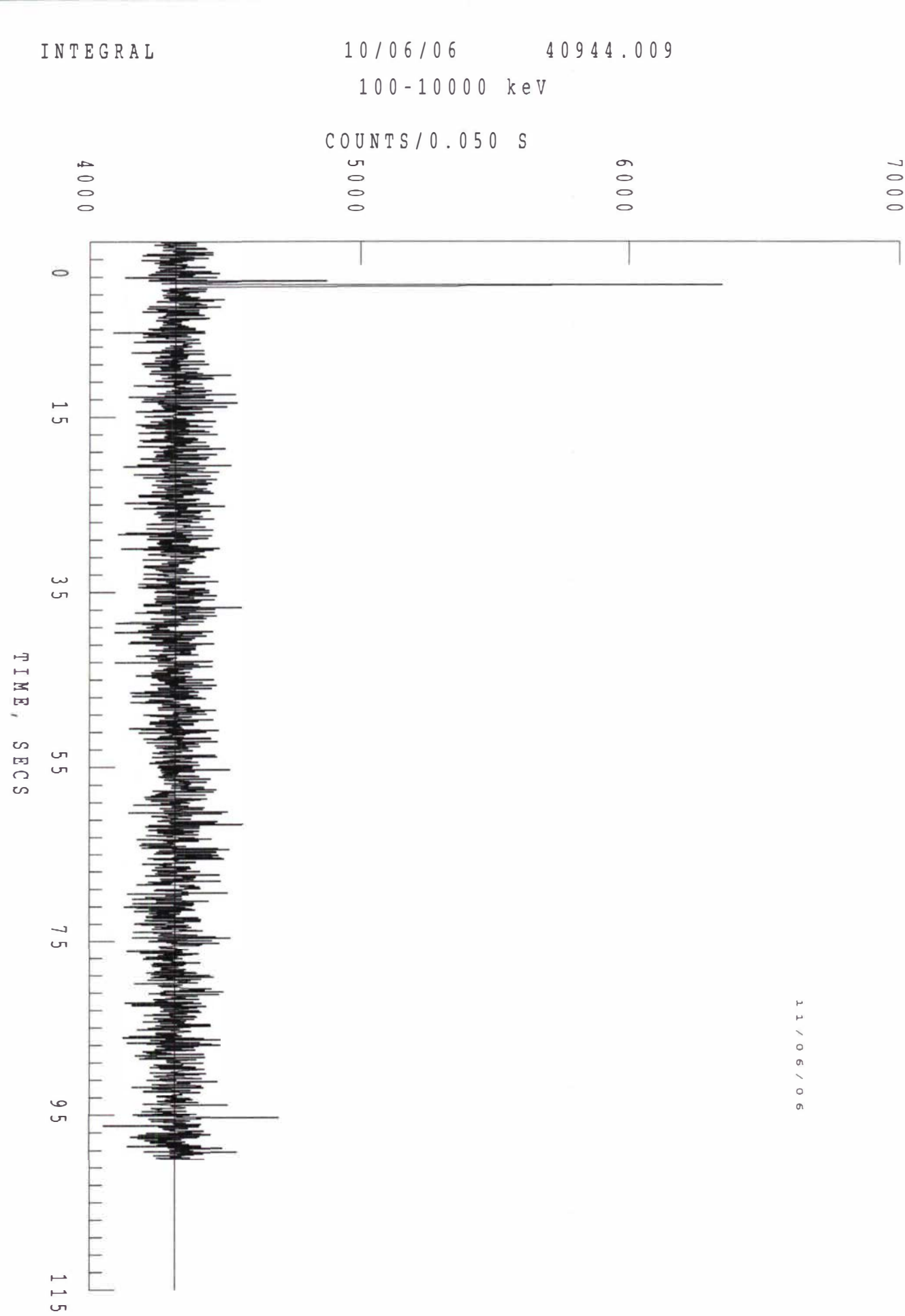


MS01 10/06/06 40976.020

50- 3000 keV




HESSI 10/06/06 40894.000 (konus_20060610_40944)
50- 200 keV
COUNTS/0.032 S
4
54
104
154
20
40
60
80
100
120
TIME, SECS
07/09/06


INTEGRAL
10/06/06
40944.009
100-10000 keV
COUNTS/0.050 S
4000
5000
6000
7000
0
15
35
55
75
95
115
TIME, SECS
11/06/06

From jayc@milkyway.gsfc.nasa.gov Sat Jun 10 22:13:09 2006
X-ASG-Debug-ID: 1150002807-437600120000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: milkyway.gsfc.nasa.gov[128.183.16.143]
X-Barracuda-Start-Time: 1150002807
X-ASG-Whitelist: Sender
Mime-Version: 1.0
X-Sender: jayc@lheapop.gsfc.nasa.gov
Date: Sun, 11 Jun 2006 01:11:45 -0400
To: "val" <val@mail.ioffe.ru>, "Kevin Hurley" <khurley@ssl.berkeley.edu>,
"Kazutaka Yamaoka" <yamaoka@phys.aoyama.ac.jp>,
"Roland Vanderspek" <roland@space.mit.edu>,
<ohno@hirax7.hepl.hiroshima-u.ac.jp>,
"Hans Krimm" <krimm@milkyway.gsfc.nasa.gov>,
"Sergey Golenetskii" <golen@mail.ioffe.ru>
From: Jay Cummings <jayc@milkyway.gsfc.nasa.gov>
X-ASG-Orig-Subj: A horrible mistake Re: short hard GRB 060610 (Konus-SPI-ACS annulus)
Subject: A horrible mistake Re: short hard GRB 060610 (Konus-SPI-ACS annulus)
Cc: "val" <val@mail.ioffe.ru>
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

I really blew it badly. The source I found was Vela X-1,
displaced because the Swift attitude was bad. I got Neil
to drag the FOT in on a Saturday evening for nothing.

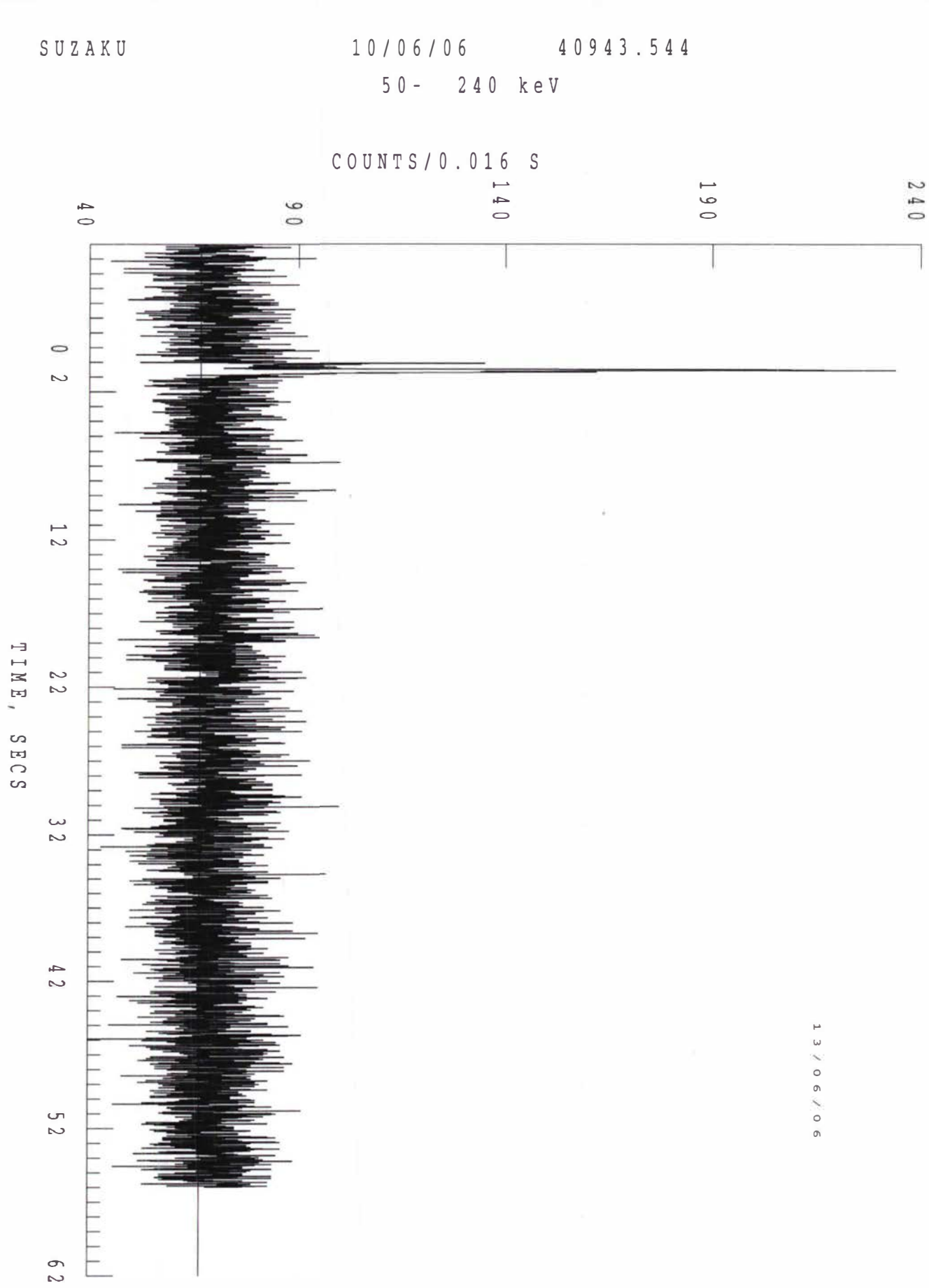
But then the question is, is the burst you all see from
Vela, or is it just an odd coincidence that the annulus
runs through it (or rather the displaced postion)?

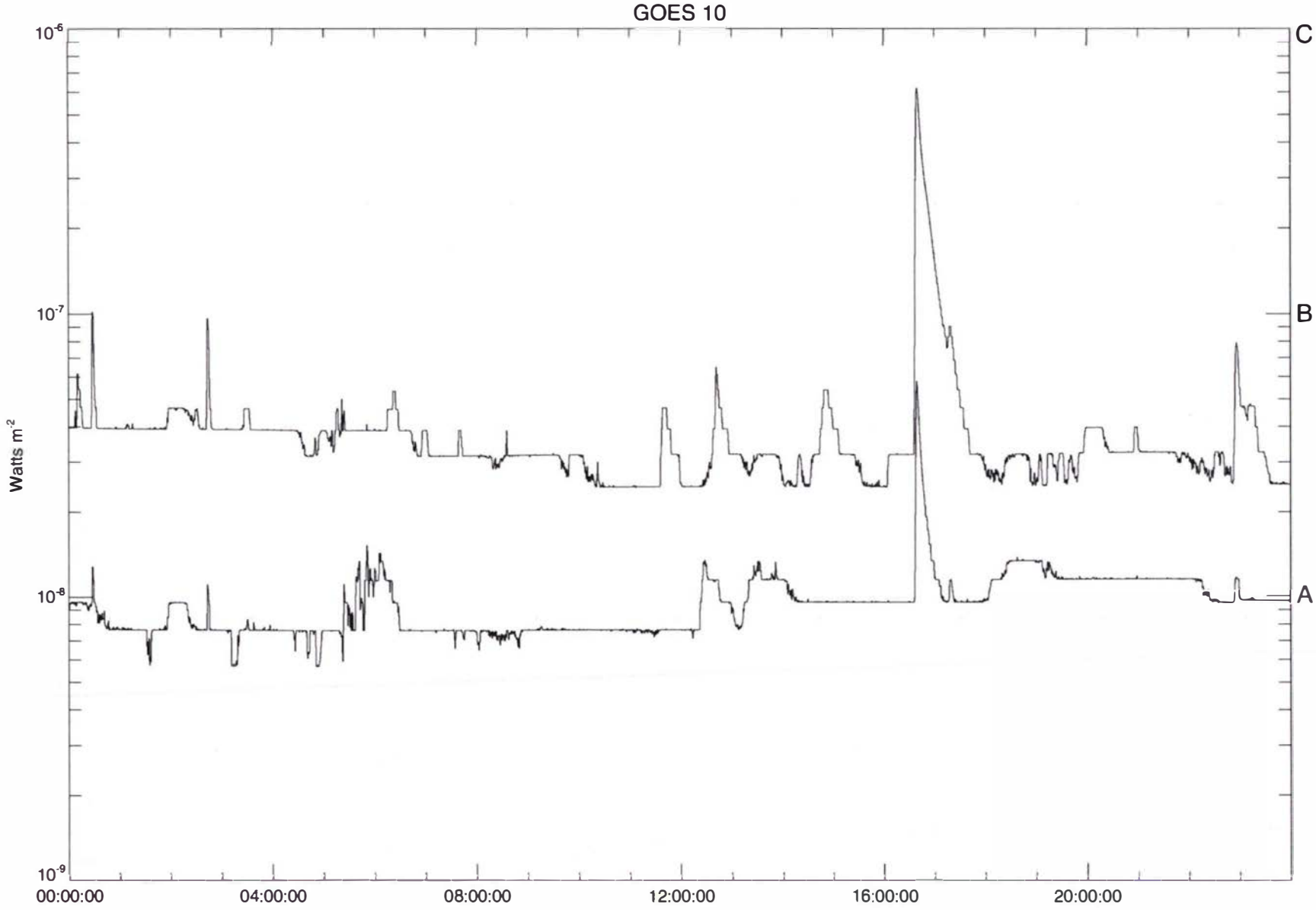
Since BAT did not see the same type of burst, I think the
most likely explanation is that it was a coincidence, and
the actual burst was below the horizon from Swift's position.

I give you my humble apologies for confusing the issue.

At 1:14 AM +0400 6/11/06, val wrote:
>Dear colleagues,
>
>We have triangulated the GRB 060610 to
>the Konus-SPI-ACS annulus centered at
>RA= 93.866 (06h 15m 28s) Dec=+23.764 (+23d 45' 49"),
>whose radius is 76.656 +/- 0.277 deg (3 sigma).
>
>Details:
>----------
>Konus-Wind:
>
>T0(K-W)=40942.631 s UT (11:22:22.631)
> RA=96.69774 deg Dec=27.50714 deg R=1662757 km
>
>INTEGRAL-SPI-ACS:
> T0(I)=40944.009 s UT (11:22:24.009)
> RA=214.97400 deg Dec=49.62000 deg R=131346 km

>dT(c-c) = 0.102 +/- 0.026 sec (3 sigma: 0.016 stat + 0.010 syst).
>dT = T0(I) - (T0(K-W) + dT(c-c)) = 1.276 +/- 0.026 sec(3 sigma)
>
>Distance between s/c is 1657478 km (=5.5288 light sec)


SUZAKU
10/06/06
40943.544
50- 240 keV
COUNTS/0.016 S
40
90
140
190
240
0
2
12
22
32
42
52
62
TIME, SECS
13/06/06

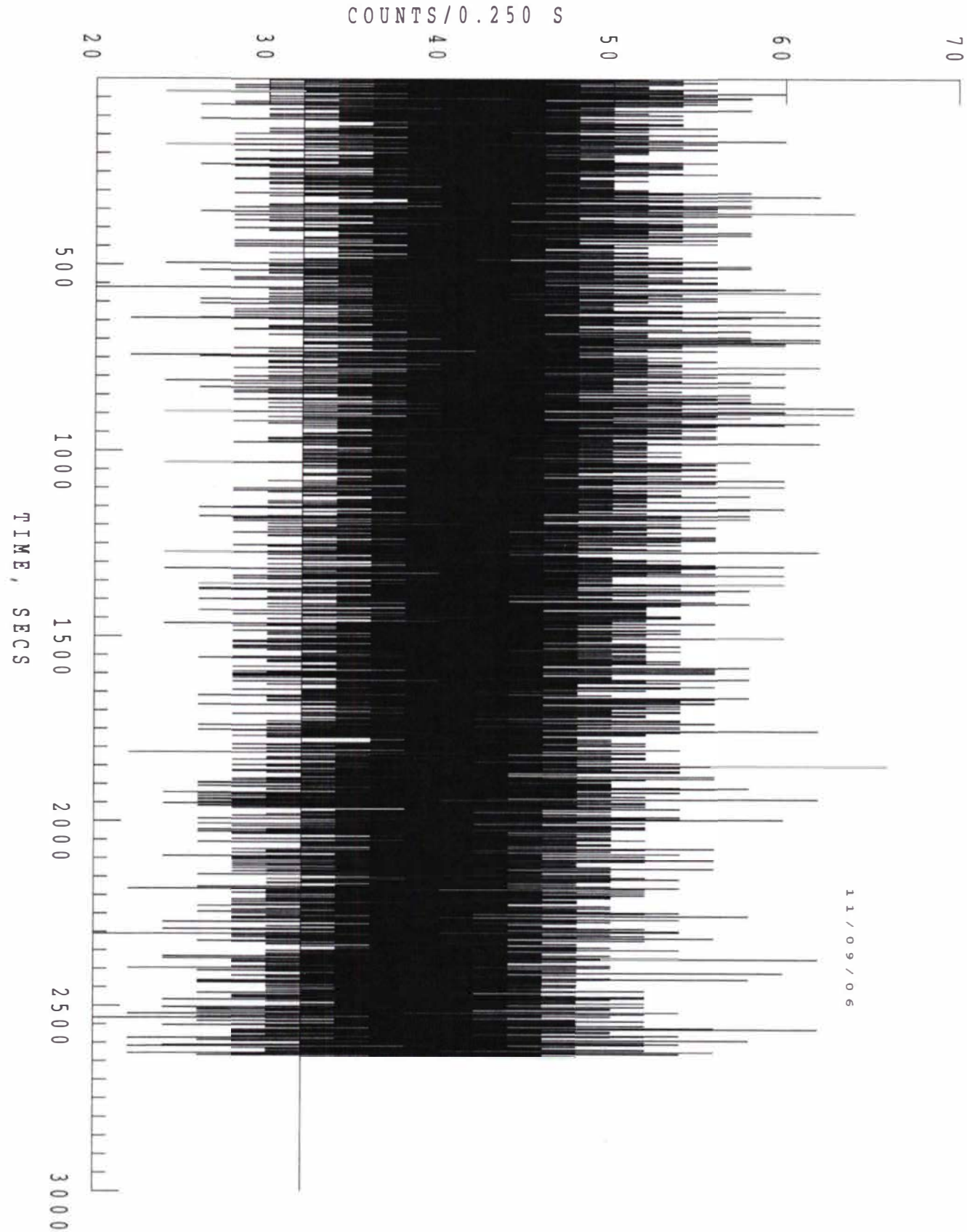


Data Start: 06/06/10, 0000:00 Plot created: 06/06/13, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

MS01 11/06/06 23094.772

50- 3000 keV

EL added to ACCESS

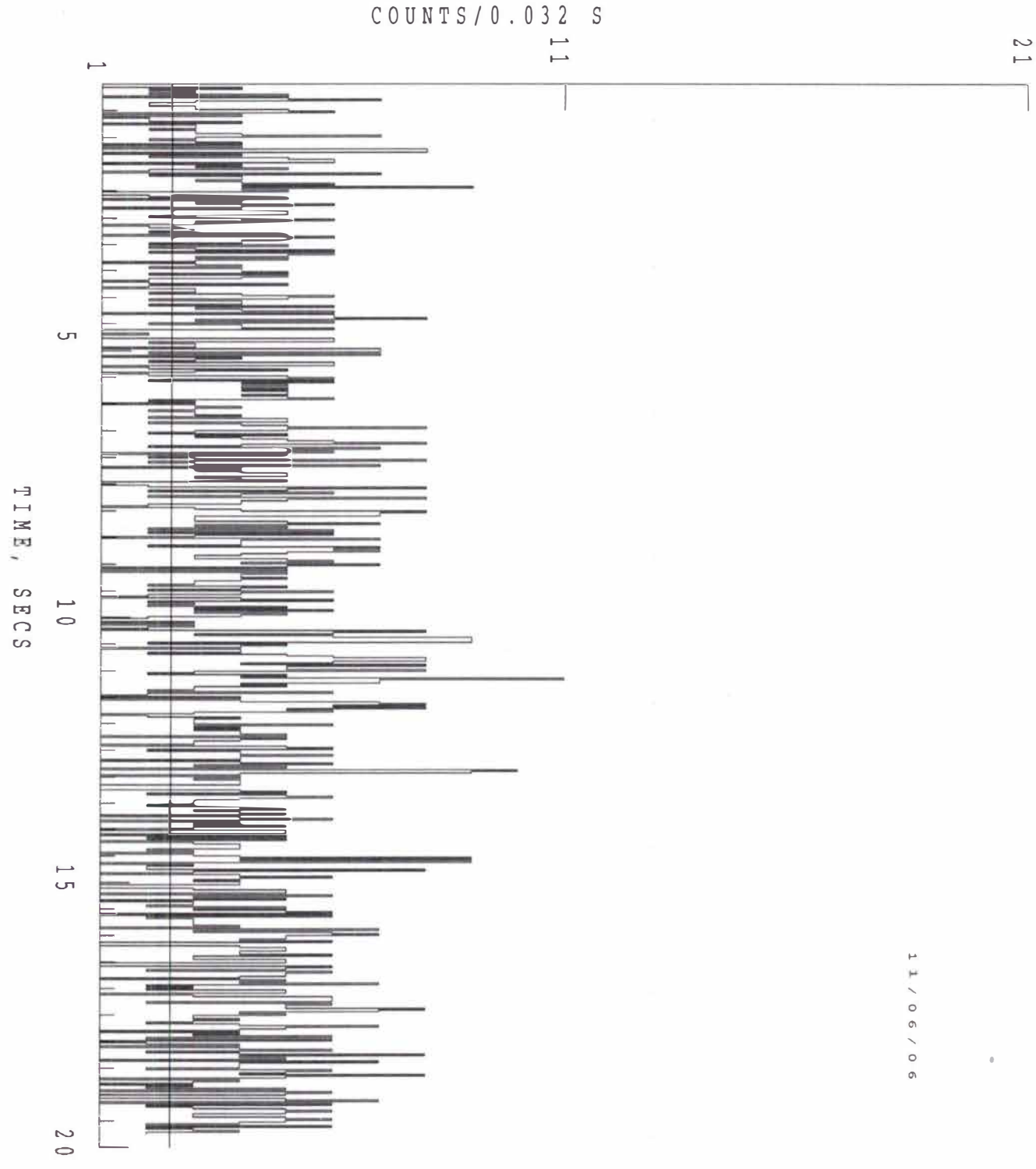


From williams@sunspot.ssl.berkeley.edu Mon Sep 11 13:52:04 2006
X-ASG-Debug-ID: 1158007988-01bc00240000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
 -Barracuda-Connect: gammaburst.ssl.berkeley.edu[128.32.98.141]
 -Barracuda-Start-Time: 1158007988
Date: Mon, 11 Sep 2006 14:01:43 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: No_RHESSI_data_for_KONUS_RI_20060611_24446
Subject: No_RHESSI_data_for_KONUS_RI_20060611_24446
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-ASG-Whitelist: Sender (Per-User)

HESSI 25 to 150 keV Counts
Created 11-Sep-2006 13:51:42.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 1.00000
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

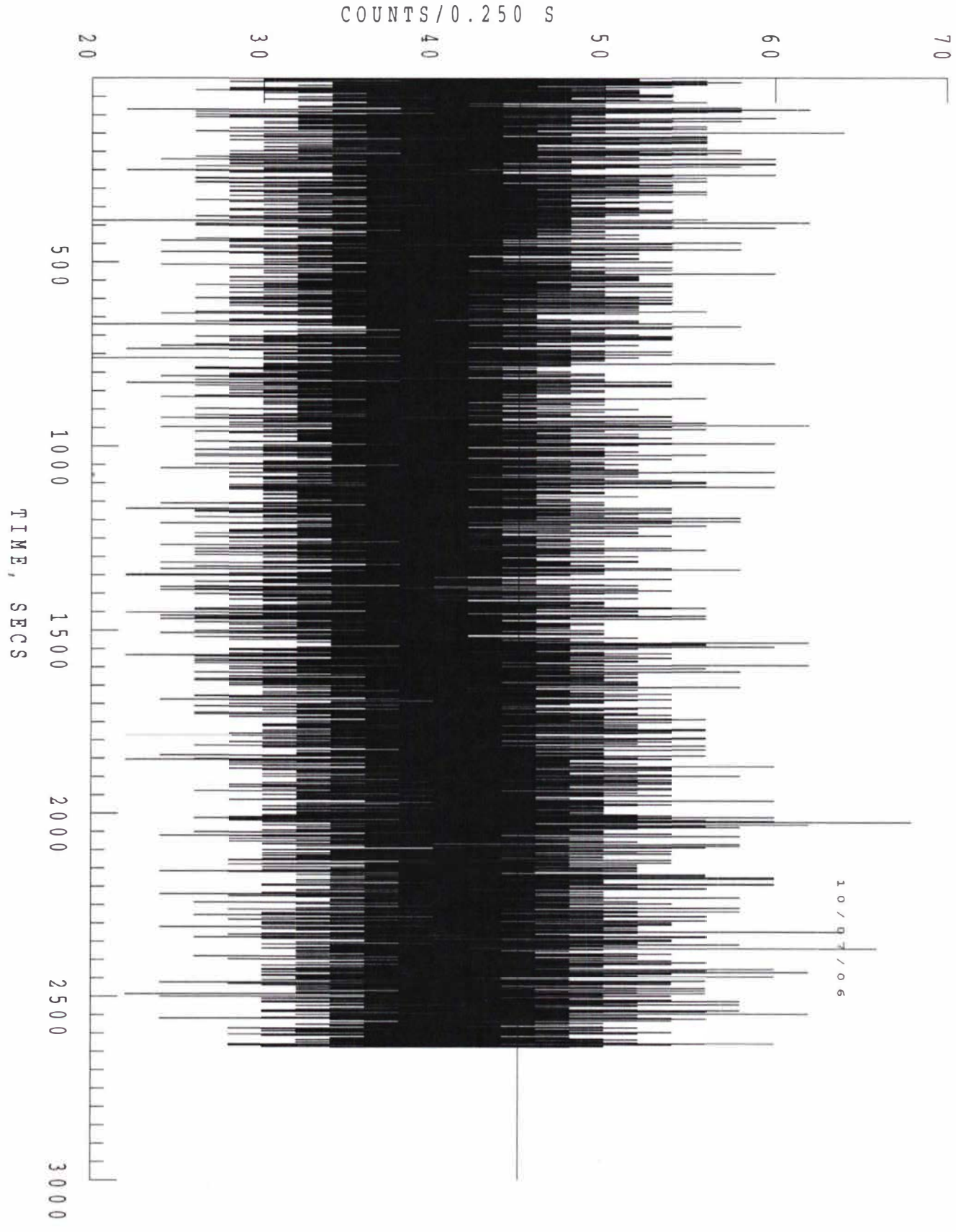
MO 11/06/06 57871.334

116- 337 keV



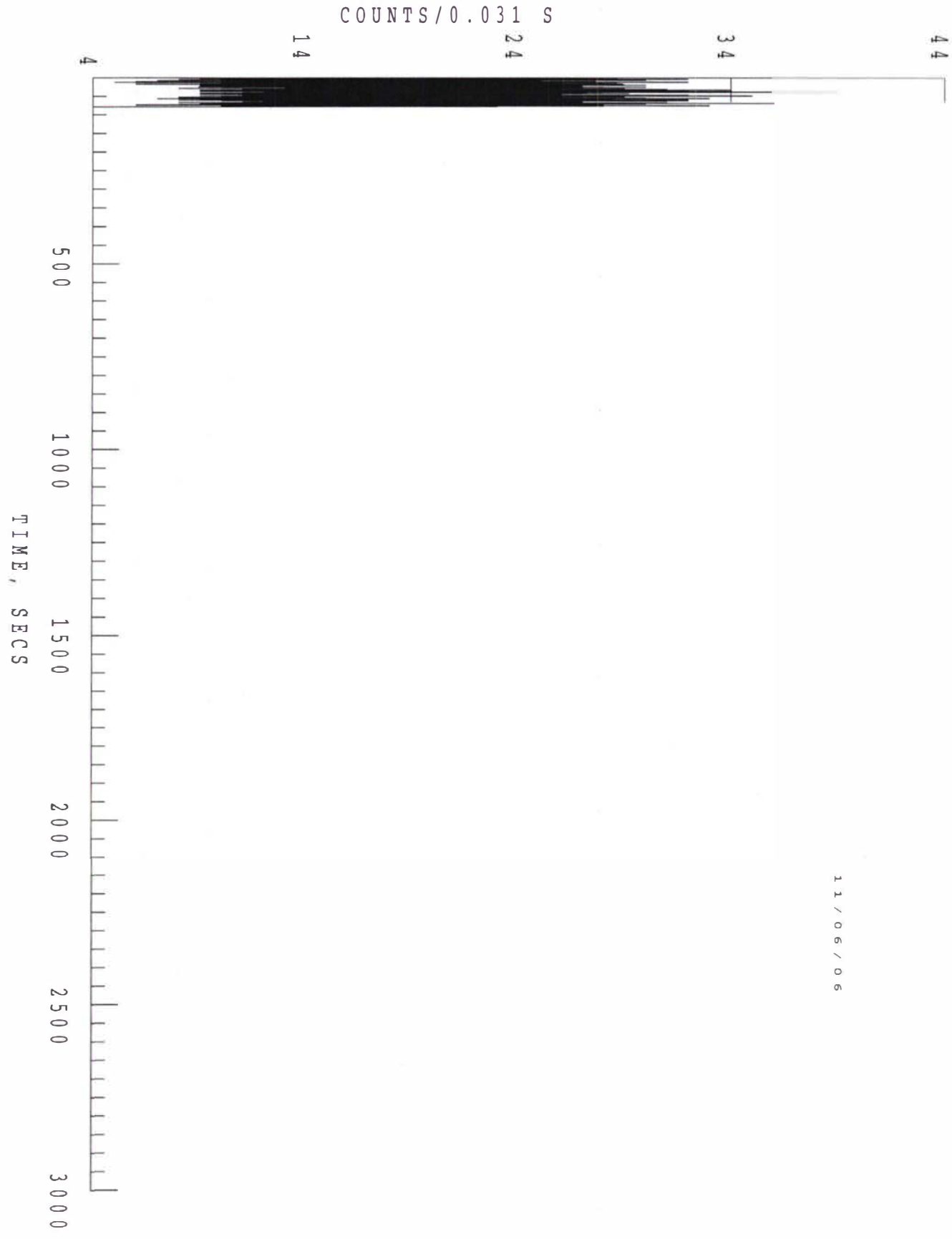
MS01 11/06/06 56514.161

50- 3000 keV

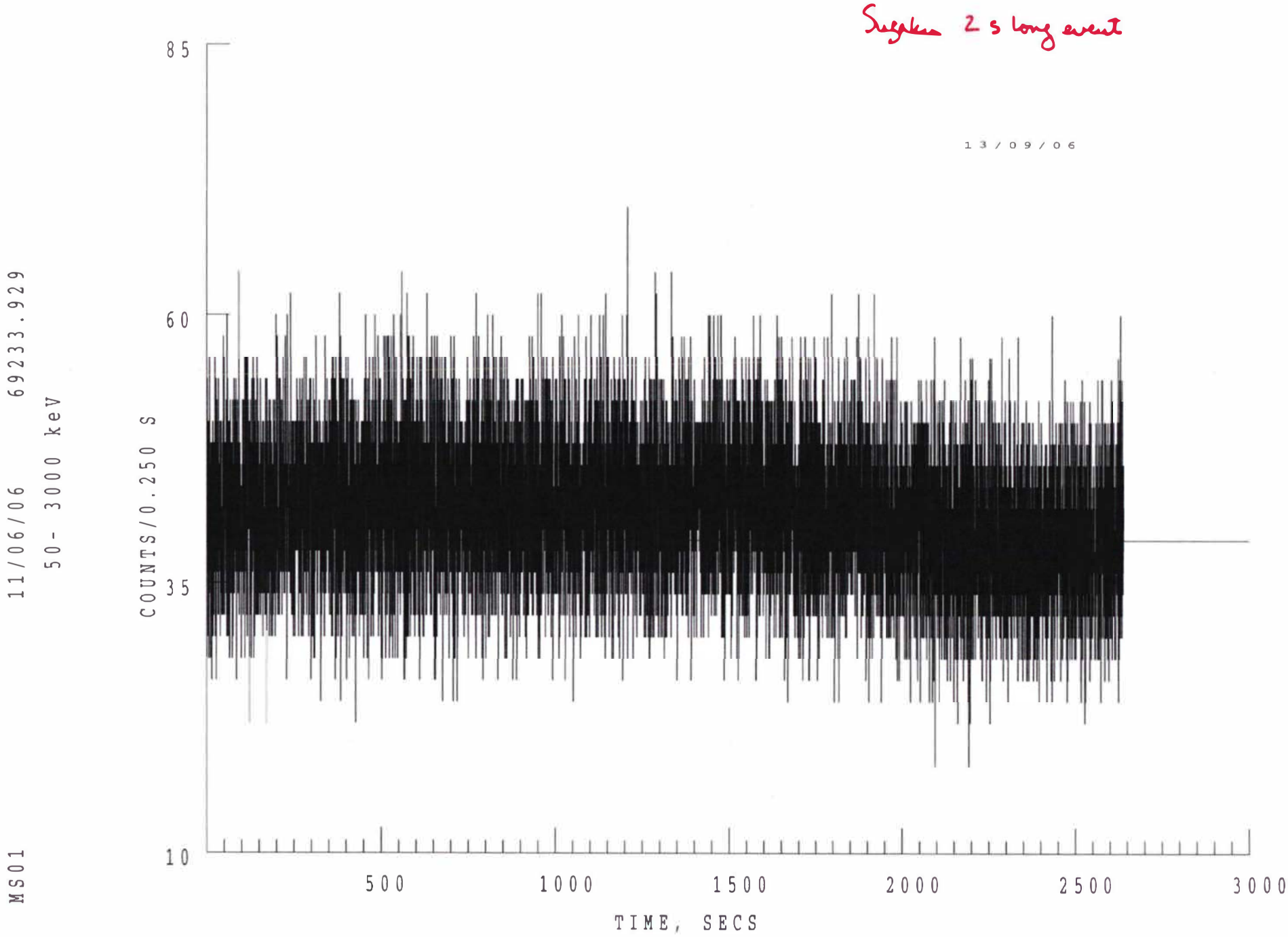


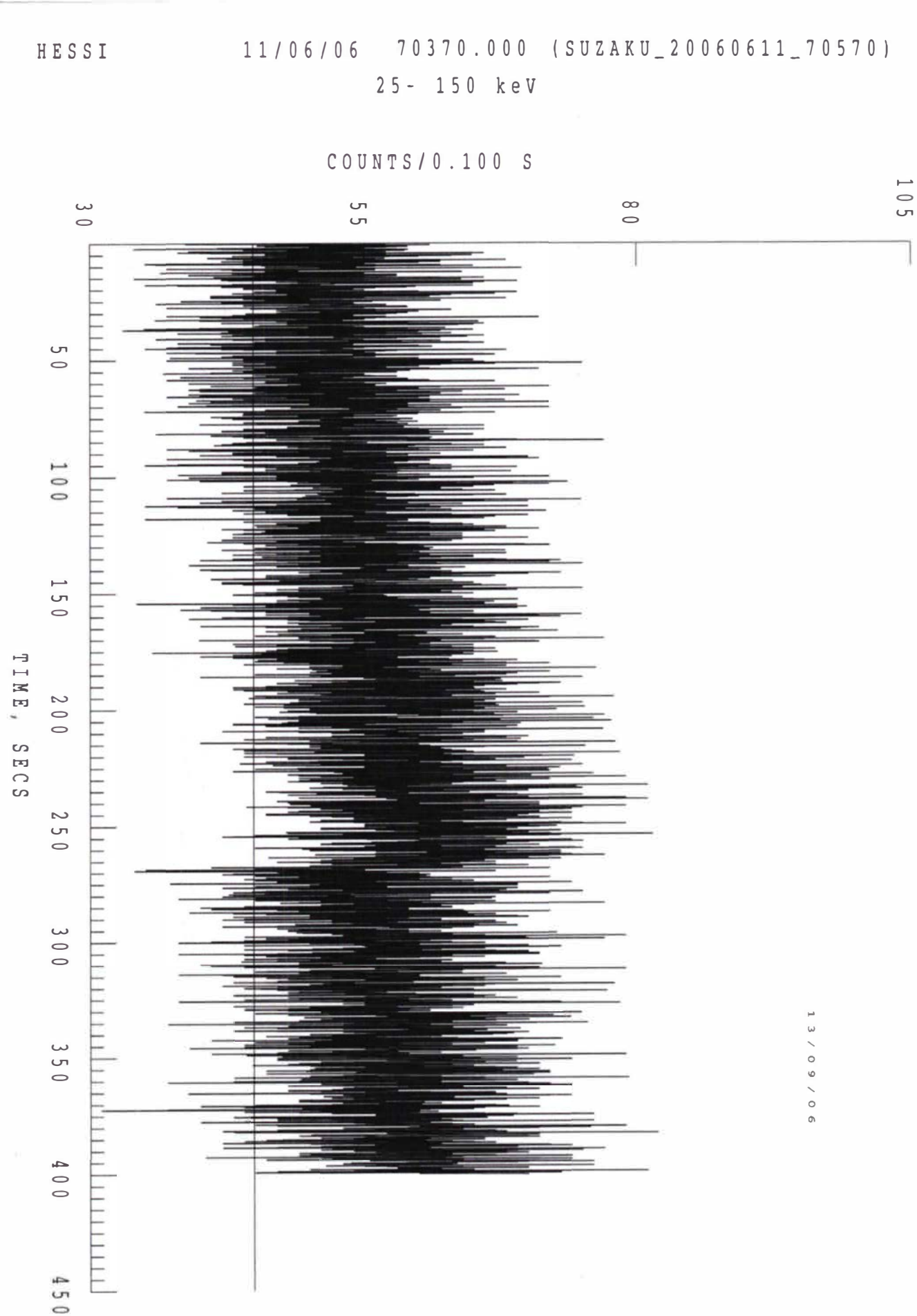
HESSI 11/06/06 56571.000 (MO_GE_20060611_57871)

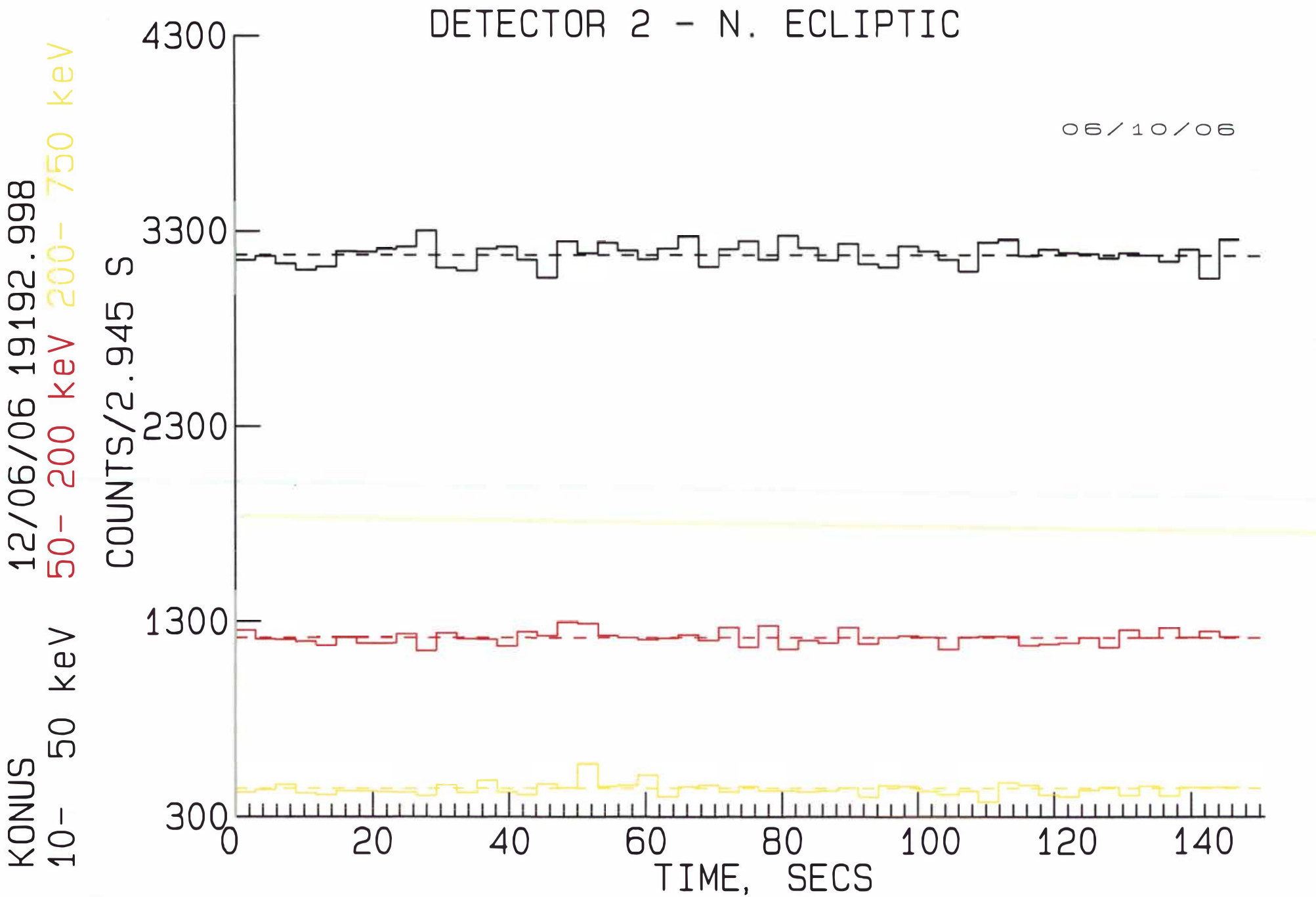
25- 150 keV

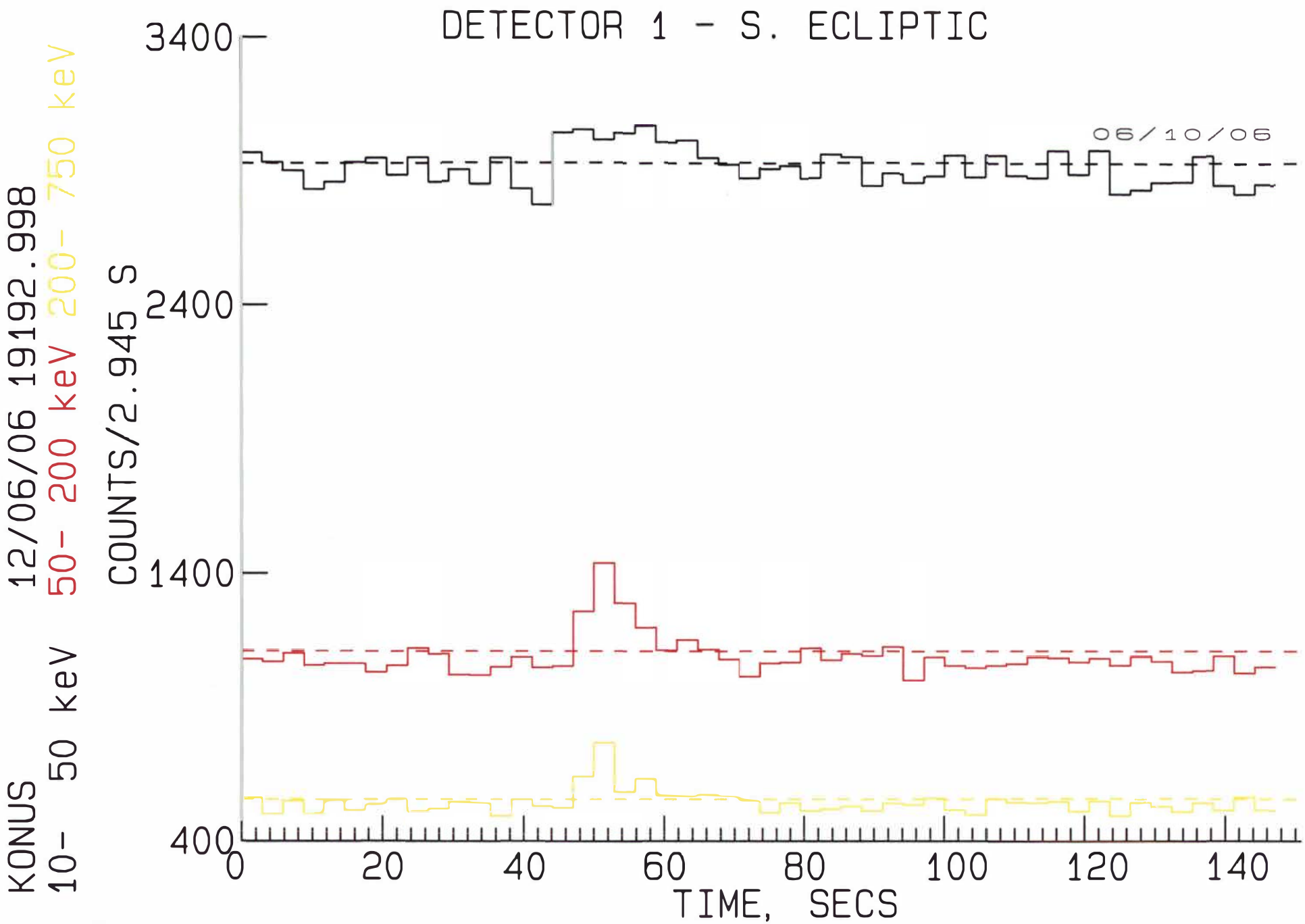


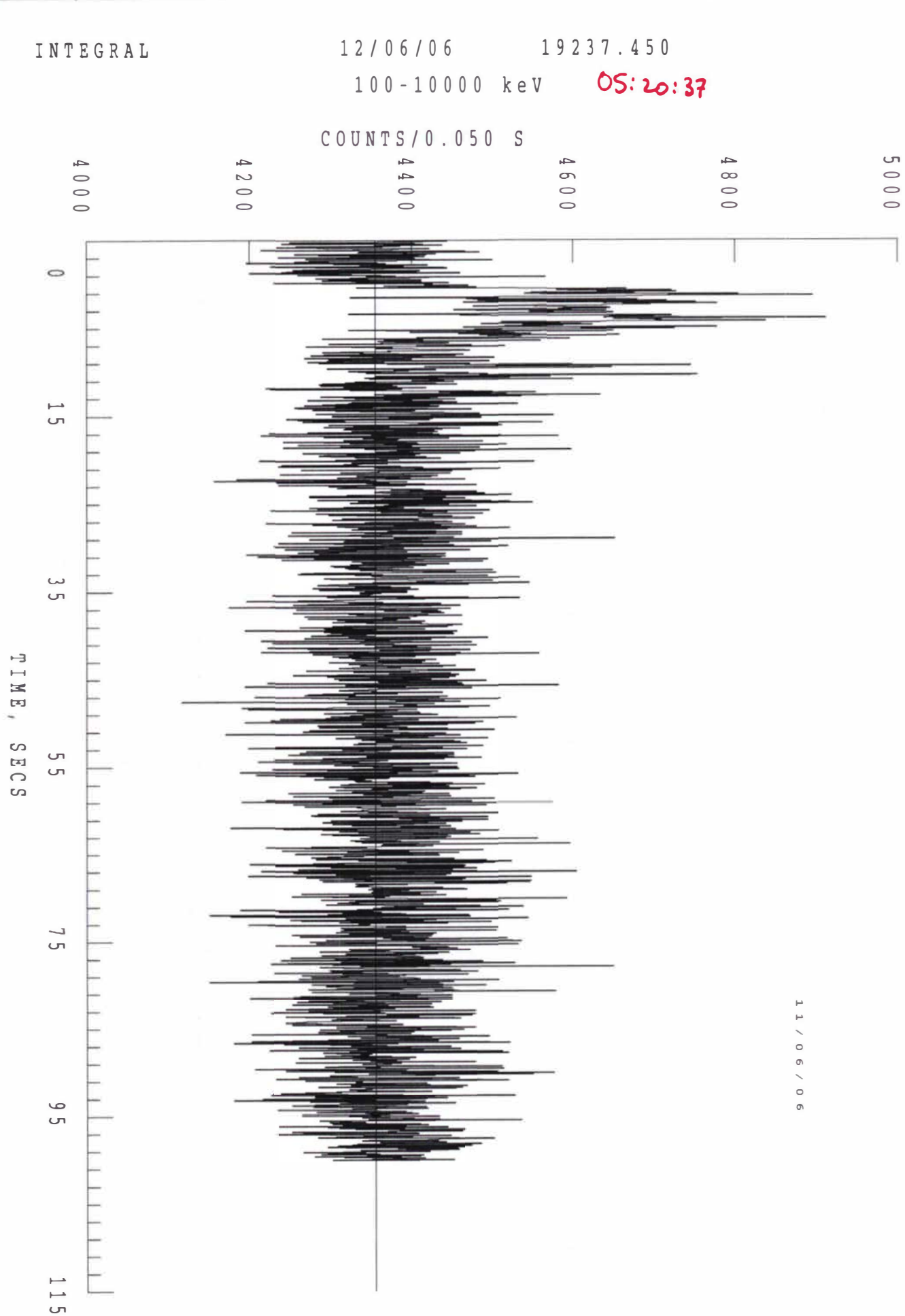
Sugden 2 s long event




HESSI 11/06/06 70370.000 (SUZAKU_20060611_70570)
25- 150 keV
COUNTS/0.100 S
30
55
80
105
50
100
150
200
250
300
350
400
450
TIME, SECS
13/09/06

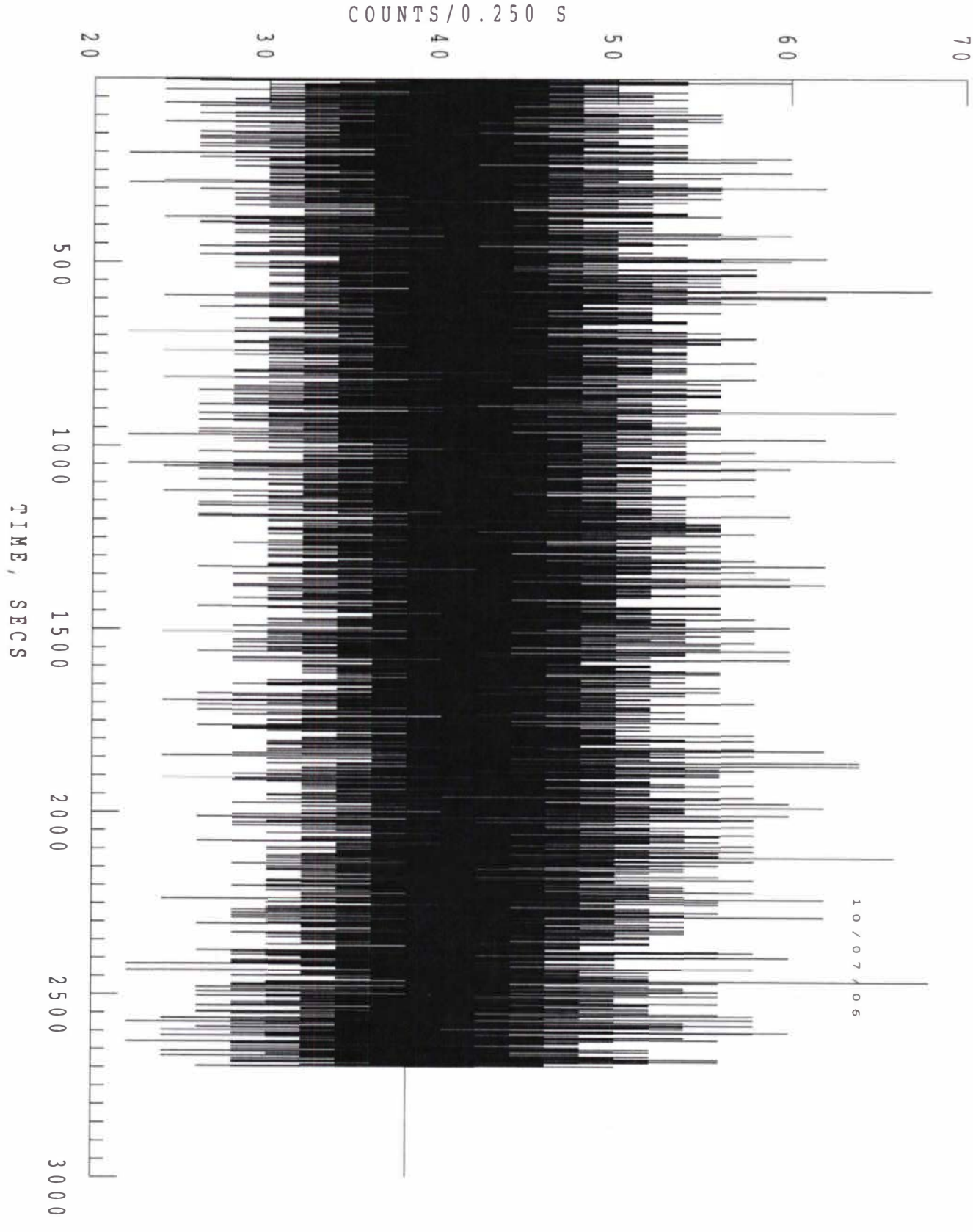

DETECTOR 2 - N. ECLIPTIC
06/10/06
KONUS
12/06/06 19192.998
10- 50 keV
50- 200 keV
200- 750 keV
COUNTS/2.945 S
4300
3300
2300
1300
300
0
20
40
60
80
100
120
140
TIME, SECS


DETECTOR 1 - S. ECLIPTIC
06/10/06
3400
2400
1400
400
0
20
40
60
80
100
120
140
TIME, SECS
COUNTS/2.945 S
KONUS 12/06/06 19192.998
10- 50 keV
50- 200 keV
200- 750 keV


INTEGRAL
12/06/06
19237.450
100-10000 keV
05:20:37
COUNTS/0.050 S
4000
4200
4400
4600
4800
5000
0
15
35
55
75
95
115
TIME, SECS
11/06/06

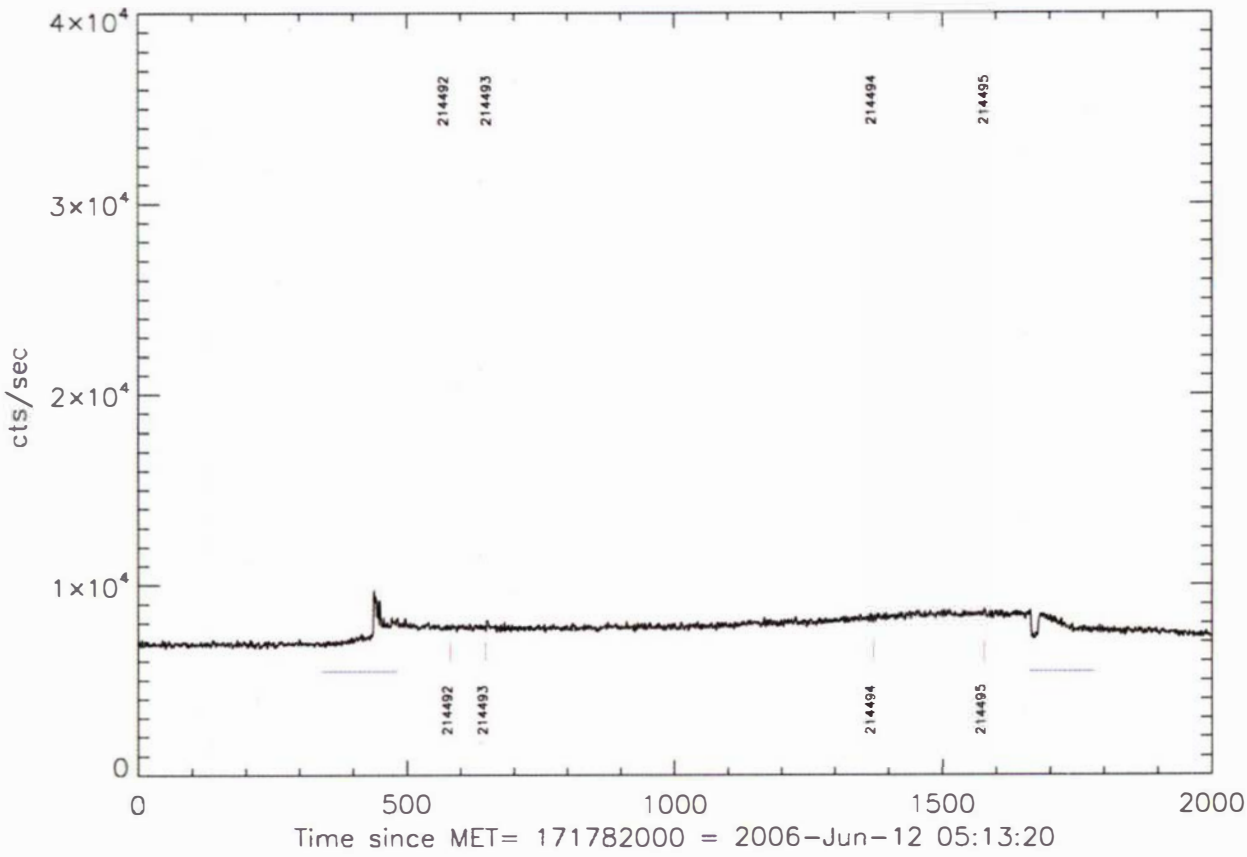
MS01 12/06/06 17873.292

50- 3000 keV



From williams@sunspot.ssl.berkeley.edu Mon Jun 12 06:21:32 2006
X-ASG-Debug-ID: 1150118518-53b0000f0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
 -Barracuda-Connect: gammaburst.SSL.Berkeley.EDU[128.32.98.141]
 -Barracuda-Start-Time: 1150118518
Date: Mon, 12 Jun 2006 06:30:09 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: No_RHESSI_data_for_INTEGRAL_20060612_19237
Subject: No_RHESSI_data_for_INTEGRAL_20060612_19237
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-ASG-Whitelist: Sender (Per-User)

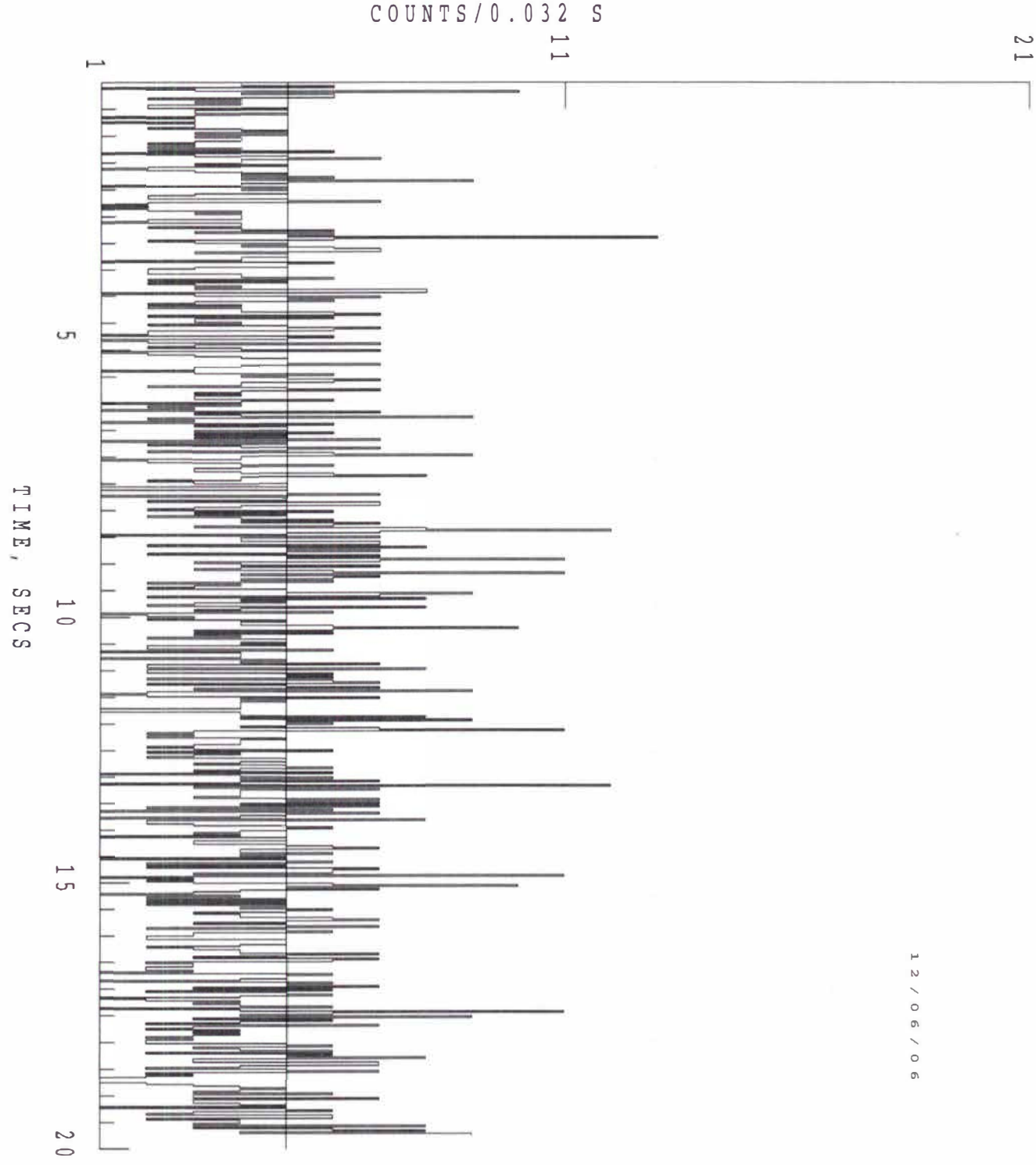
HESSI 25 to 150 keV Counts
Created 12-Jun-2006 06:20:35.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0312500
Full time range in SAA
No Eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry


4×10⁴
3×10⁴
2×10⁴
1×10⁴
0
cts/sec
214492
214493
214494
214495
0
500
1000
1500
2000
Time since MET= 171782000 = 2006-Jun-12 05:13:20

18800

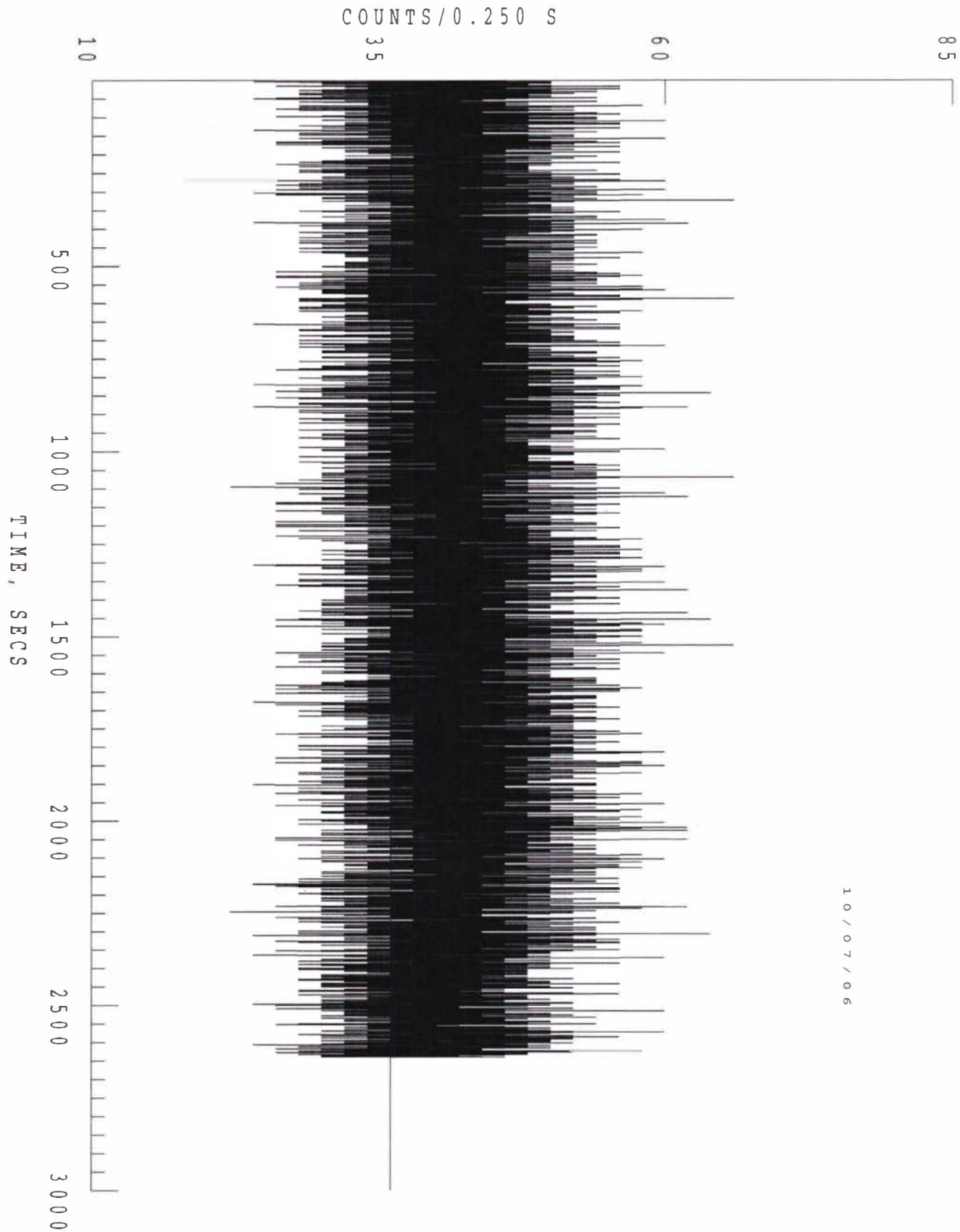
MO 12/06/06 54973.270

116- 337 keV



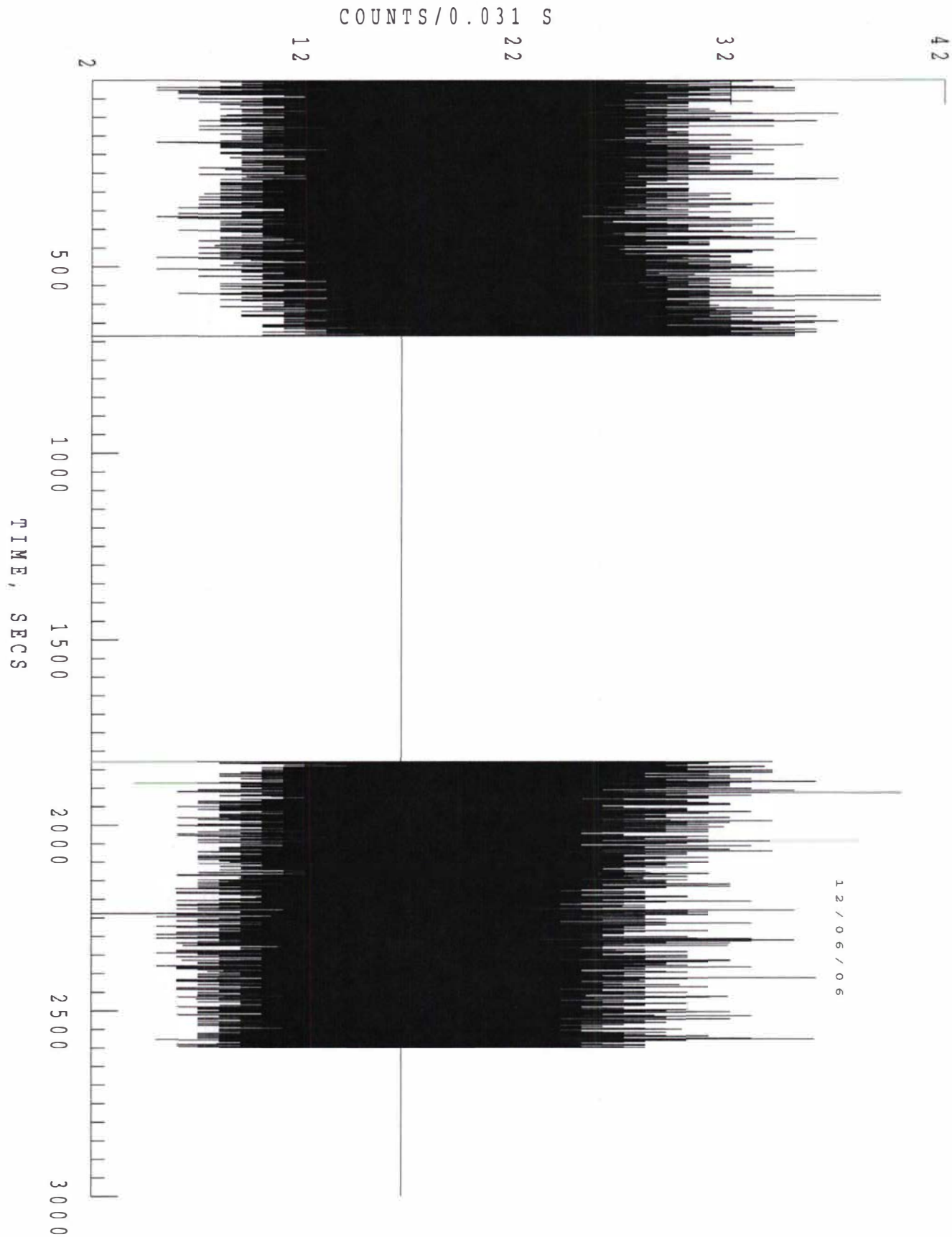
MS01 12/06/06 53632.640

50- 3000 keV



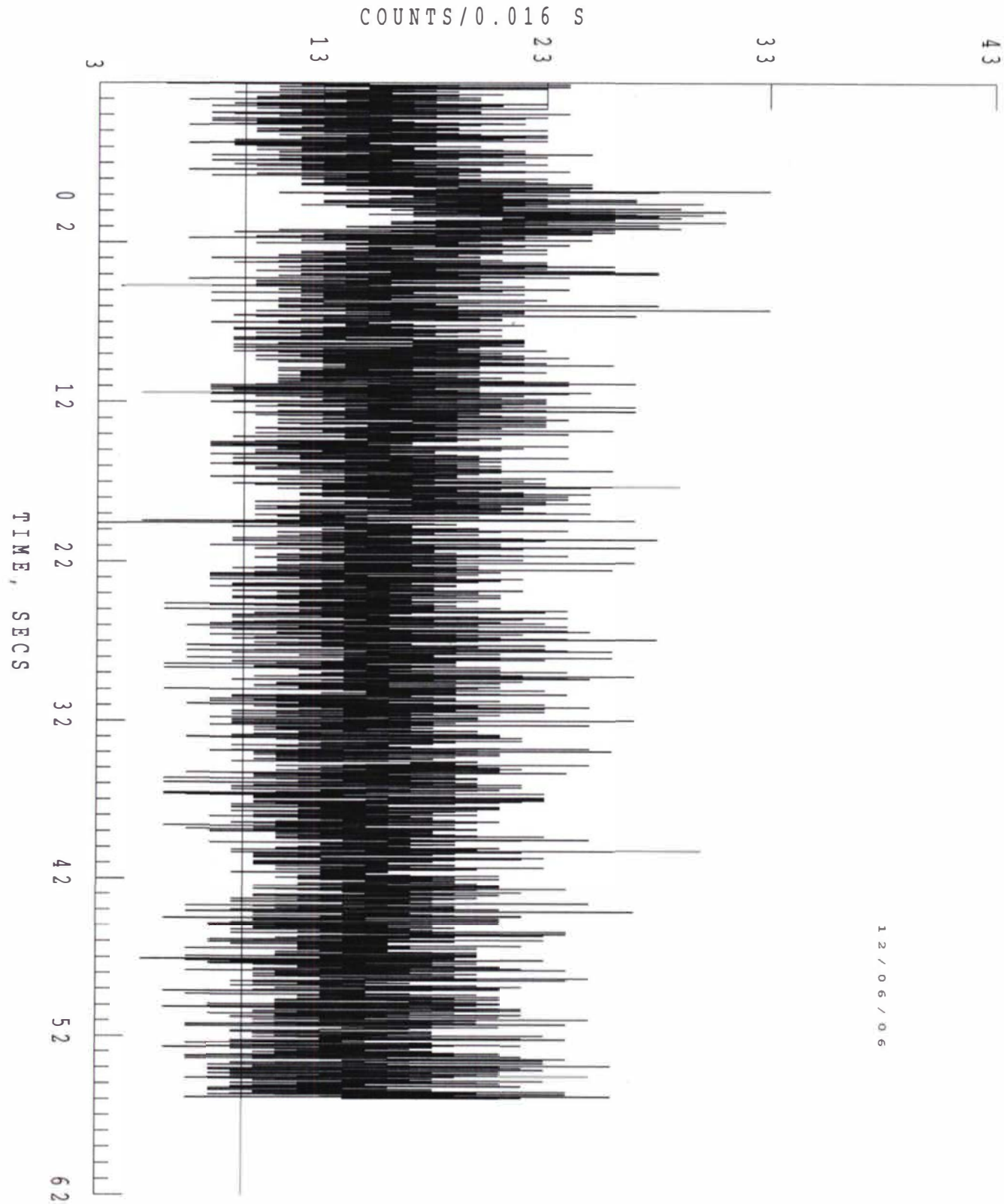
HESSI 12/06/06 53673.000 (MO_GE_20060612_54973)

25- 150 keV



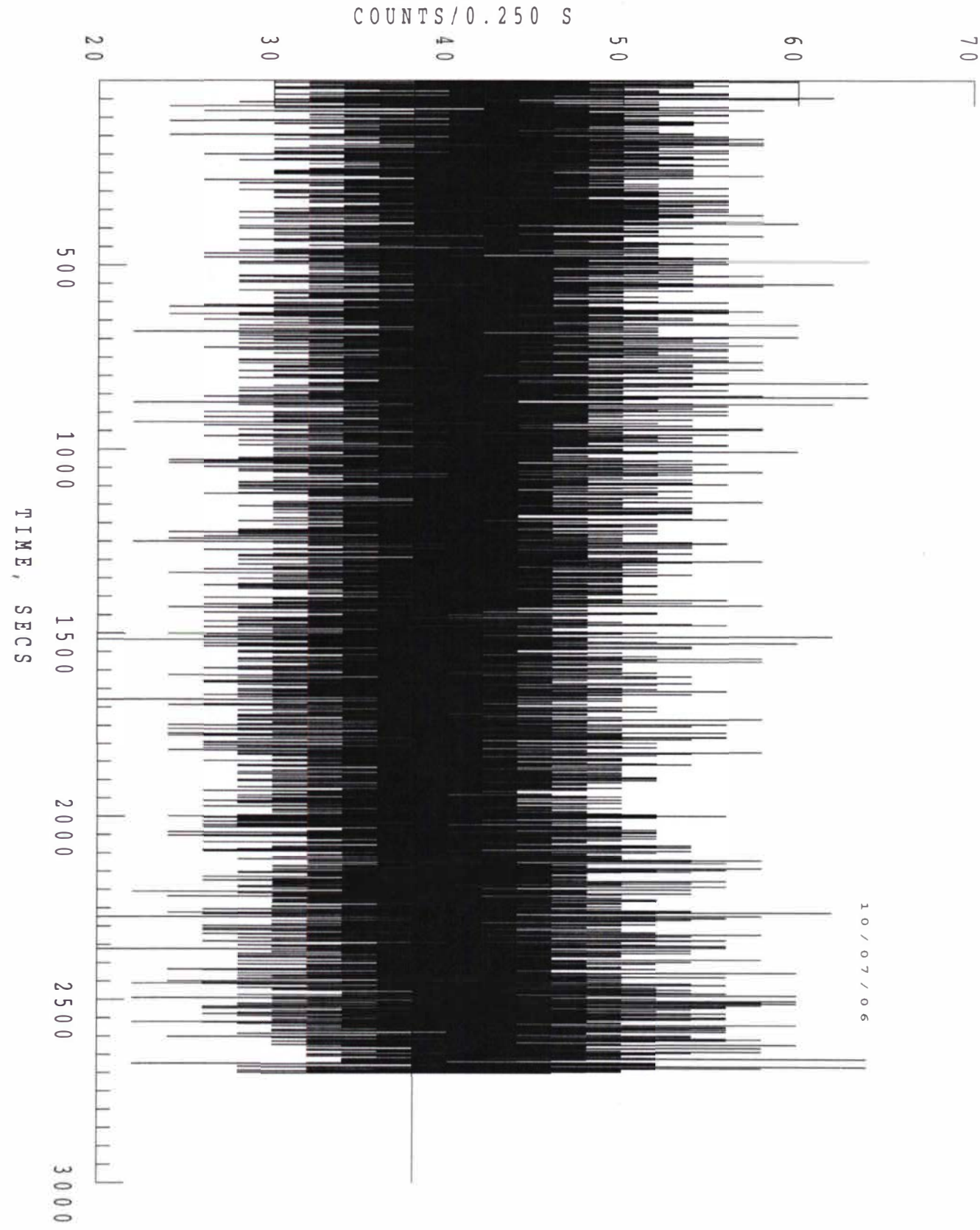
SUZAKU 12/06/06 81109.011

50- 240 keV 22:31:49



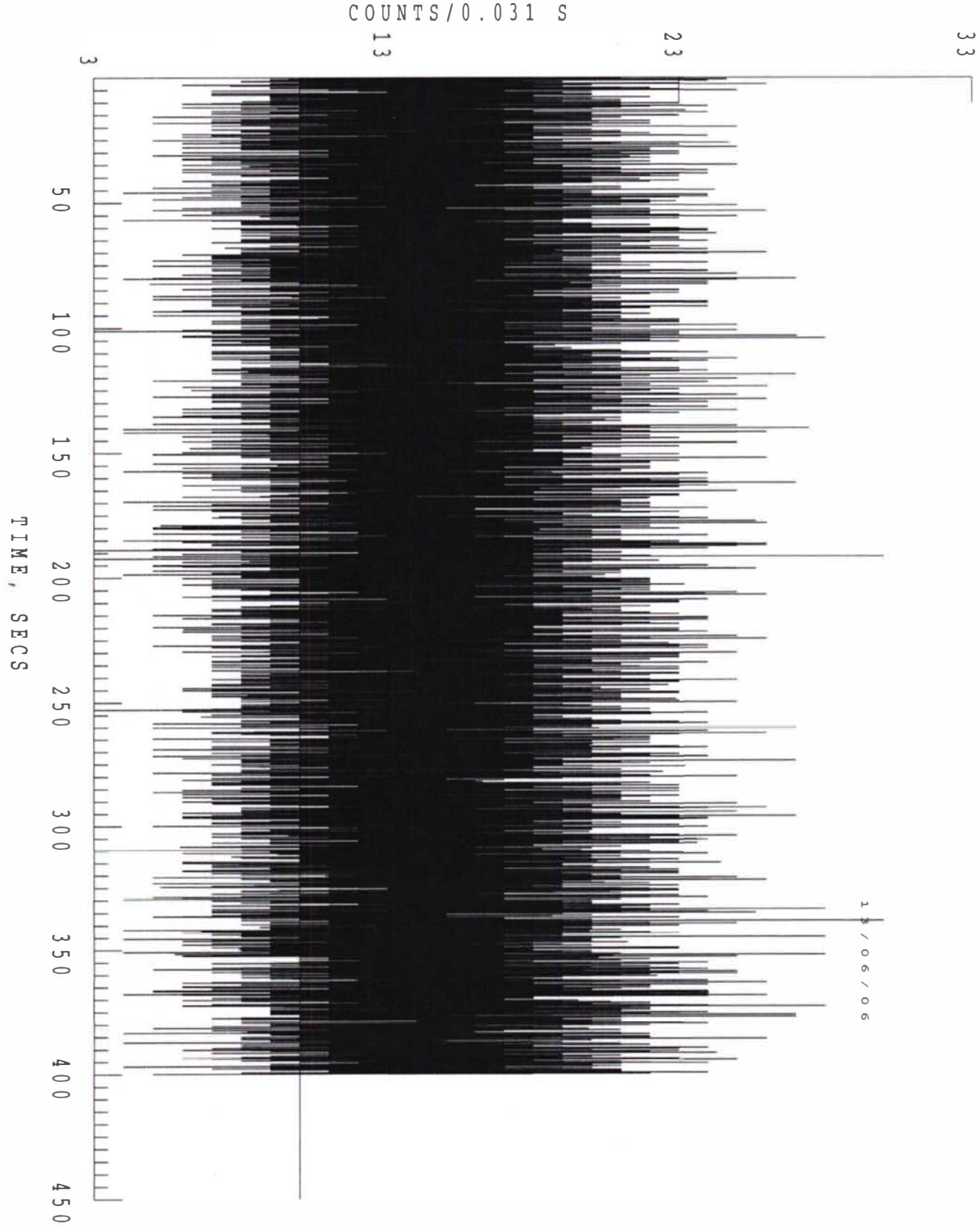
MS01 12/06/06 79732.161

50- 3000 keV



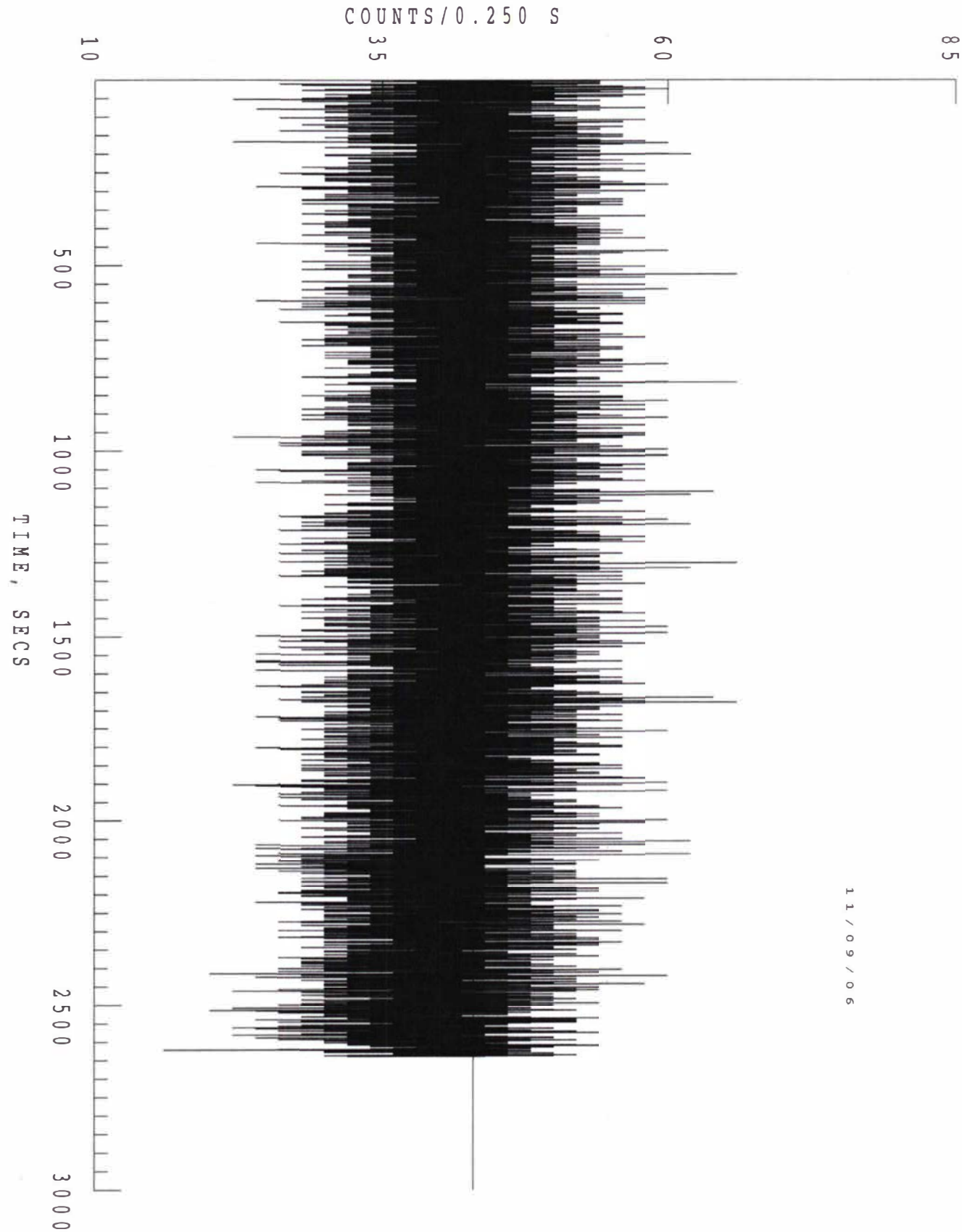
HESSI 12/06/06 80909.000 (SUZAKU_20060612_81109)

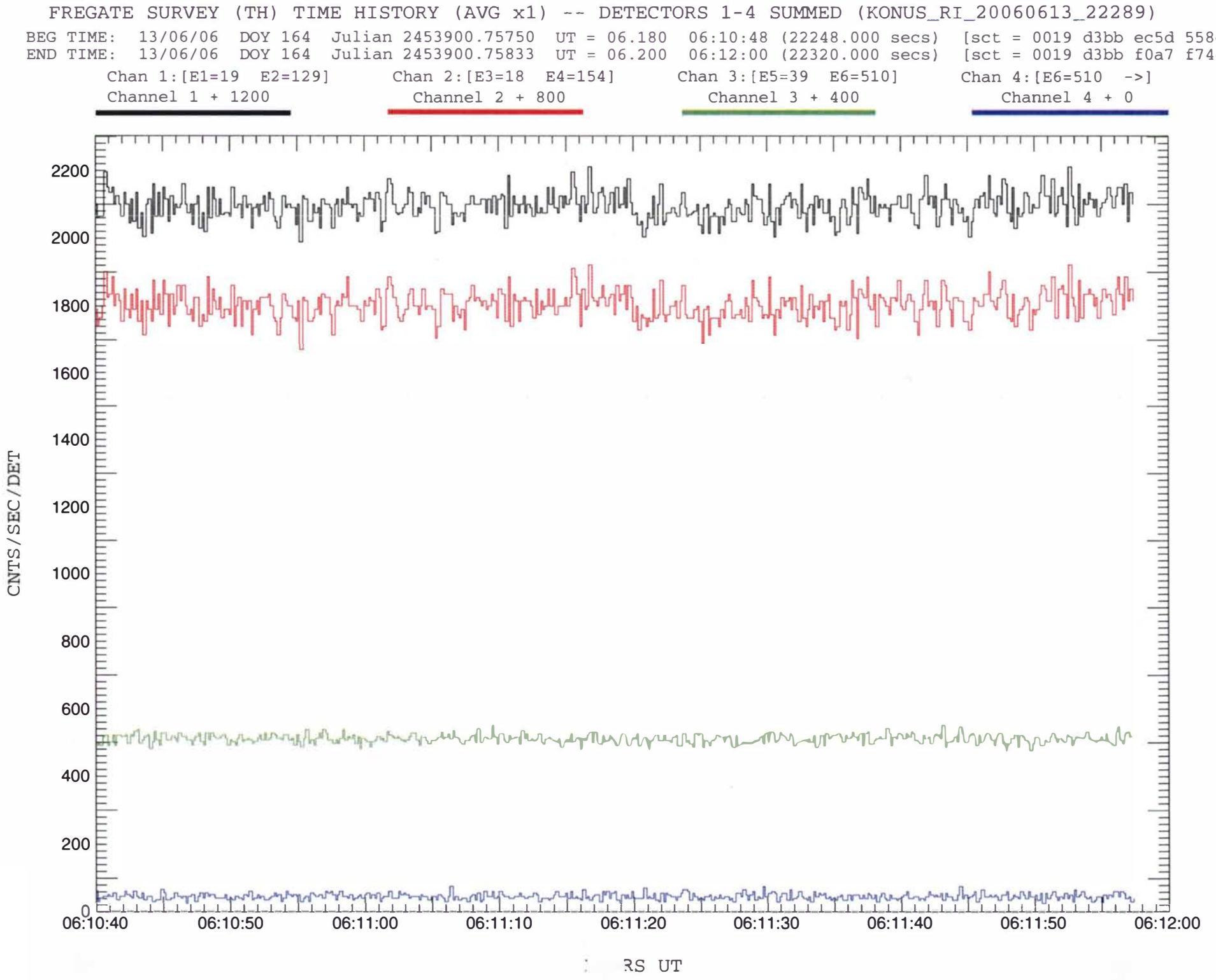
25- 150 keV



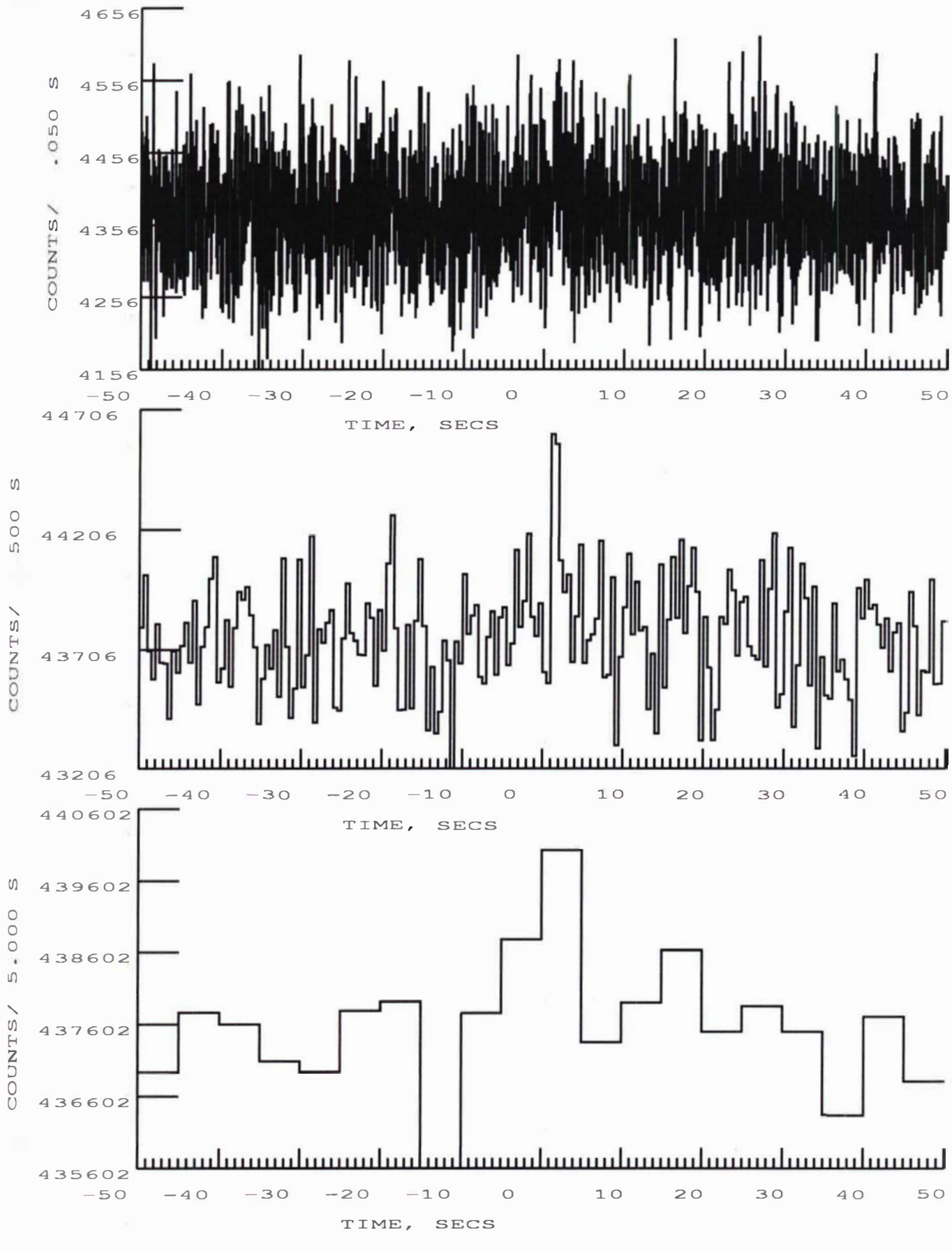
MS01 13/06/06 20931.659

50- 3000 keV



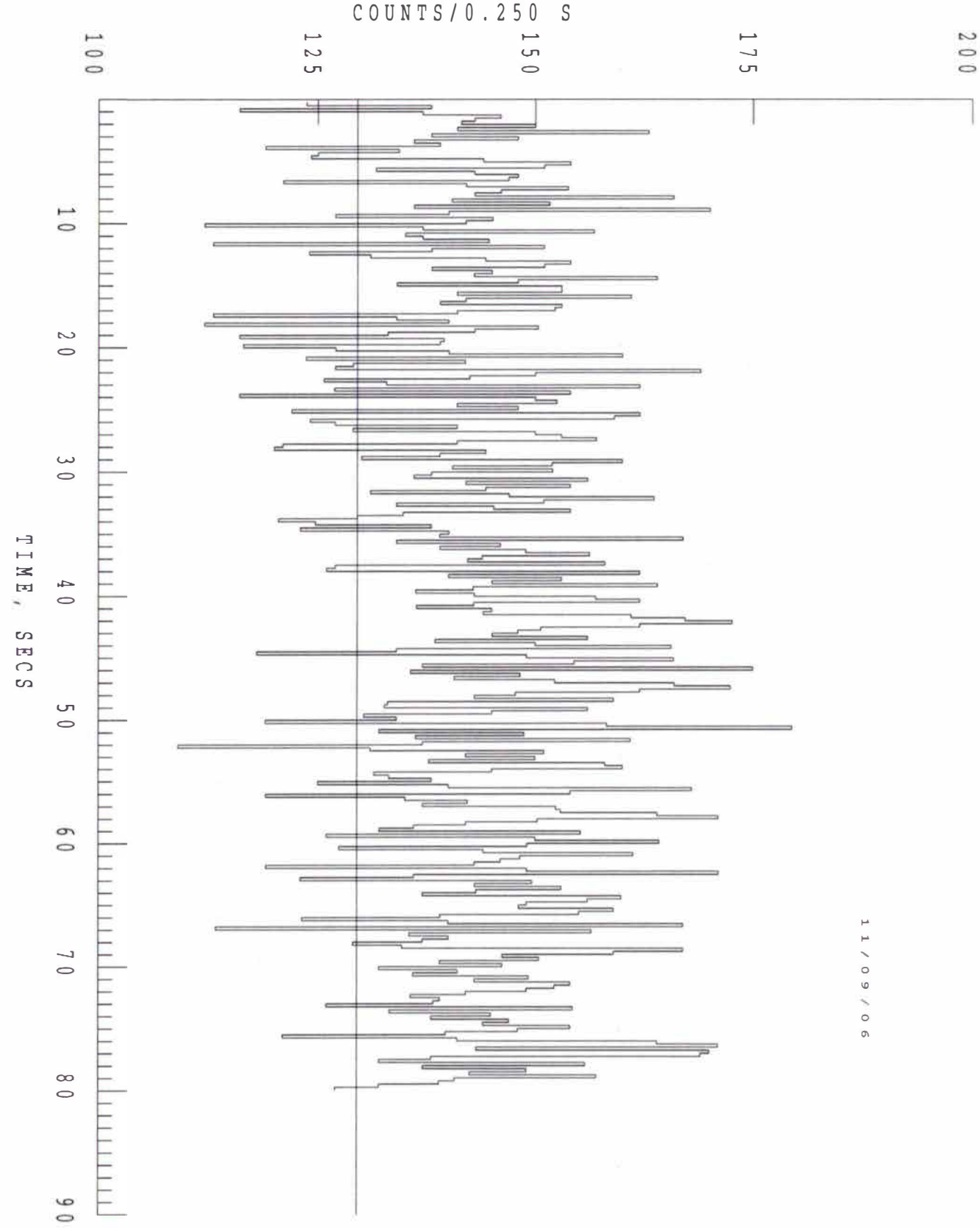

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS_RI_20060613_22289)
BEG TIME: 13/06/06 DOY 164 Julian 2453900.75750 UT = 06.180 06:10:48 (22248.000 secs) [sct = 0019 d3bb ec5d 558e]
END TIME: 13/06/06 DOY 164 Julian 2453900.75833 UT = 06.200 06:12:00 (22320.000 secs) [sct = 0019 d3bb f0a7 f74e]
Chan 1:[E1=19 E2=129]
Channel 1 + 1200
Chan 2:[E3=18 E4=154]
Channel 2 + 800
Chan 3:[E5=39 E6=510]
Channel 3 + 400
Chan 4:[E6=510 ->]
Channel 4 + 0
CNTS/SEC/DET
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
06:10:40
06:10:50
06:11:00
06:11:10
06:11:20
06:11:30
06:11:40
06:11:50
06:12:00
RS UT

INTEGRAL 13/06/06 22289.000 06:11:29.0 11/07/14



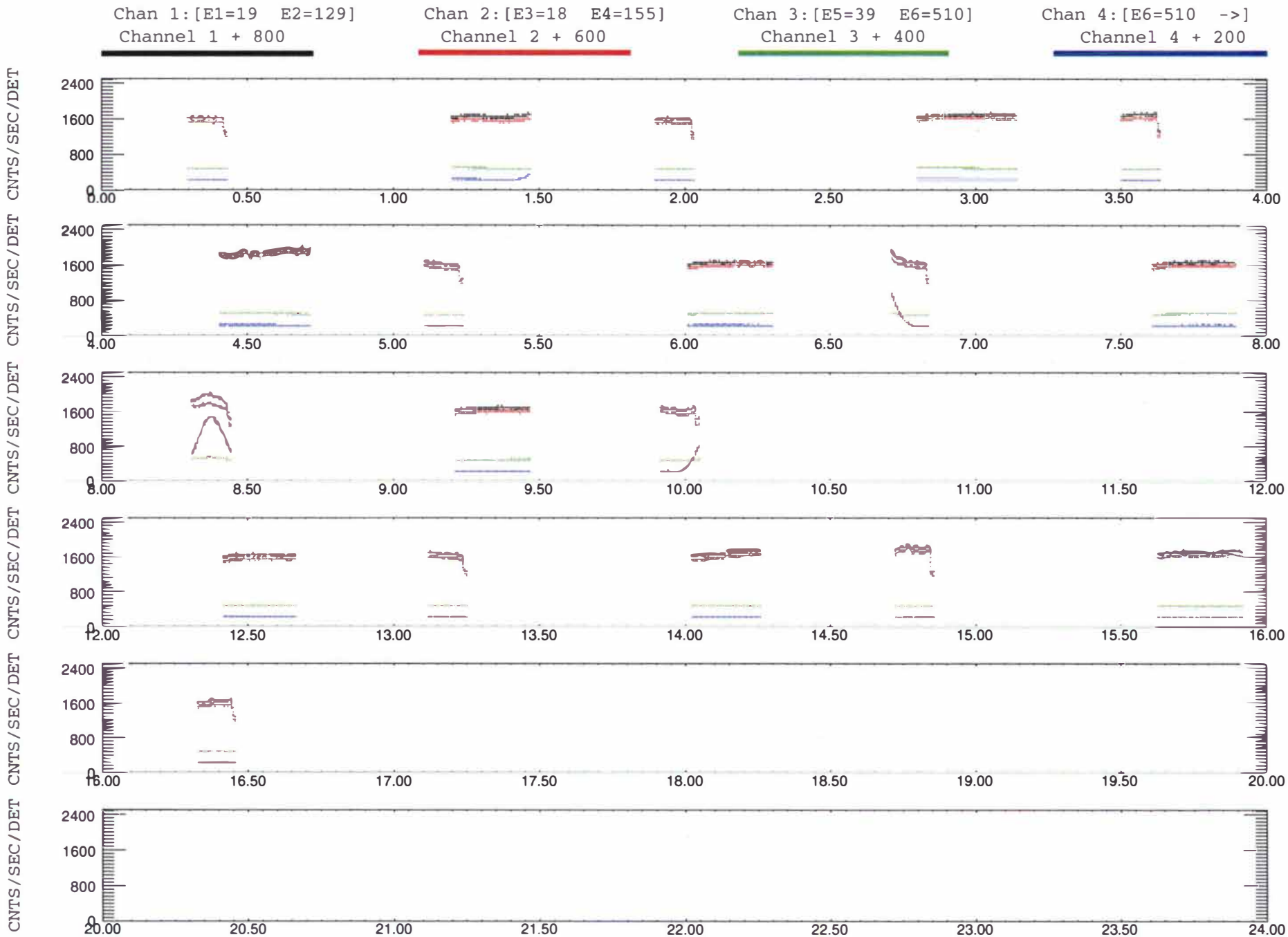
HESSI 13/06/06 22249.000 (KONUS_RI_20060613_22289)

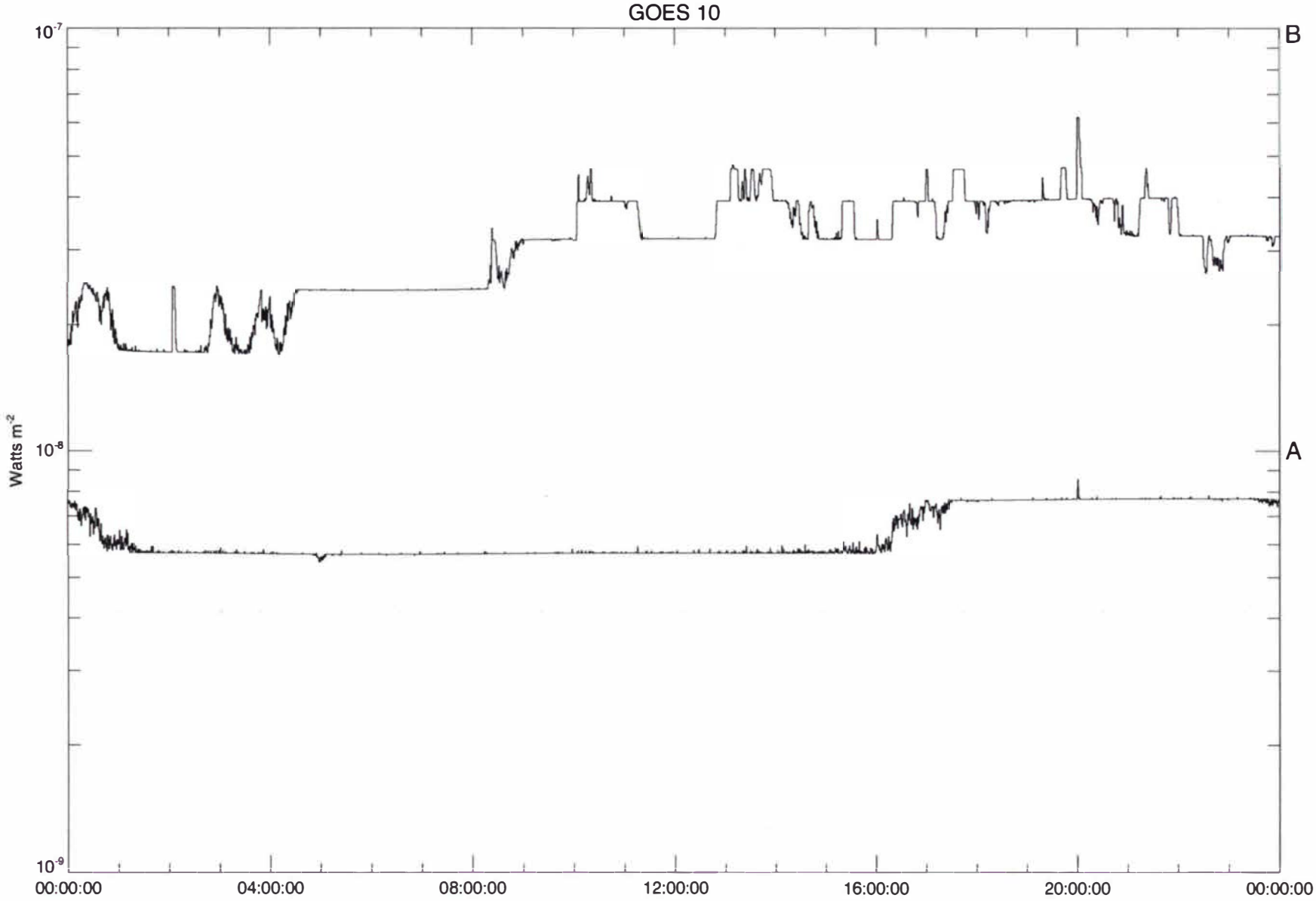
25- 150 keV



FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED

13/06/06 DOY 164 Julian 2453900.50000 [est. sct = 0019 d3b6 be48 1914]



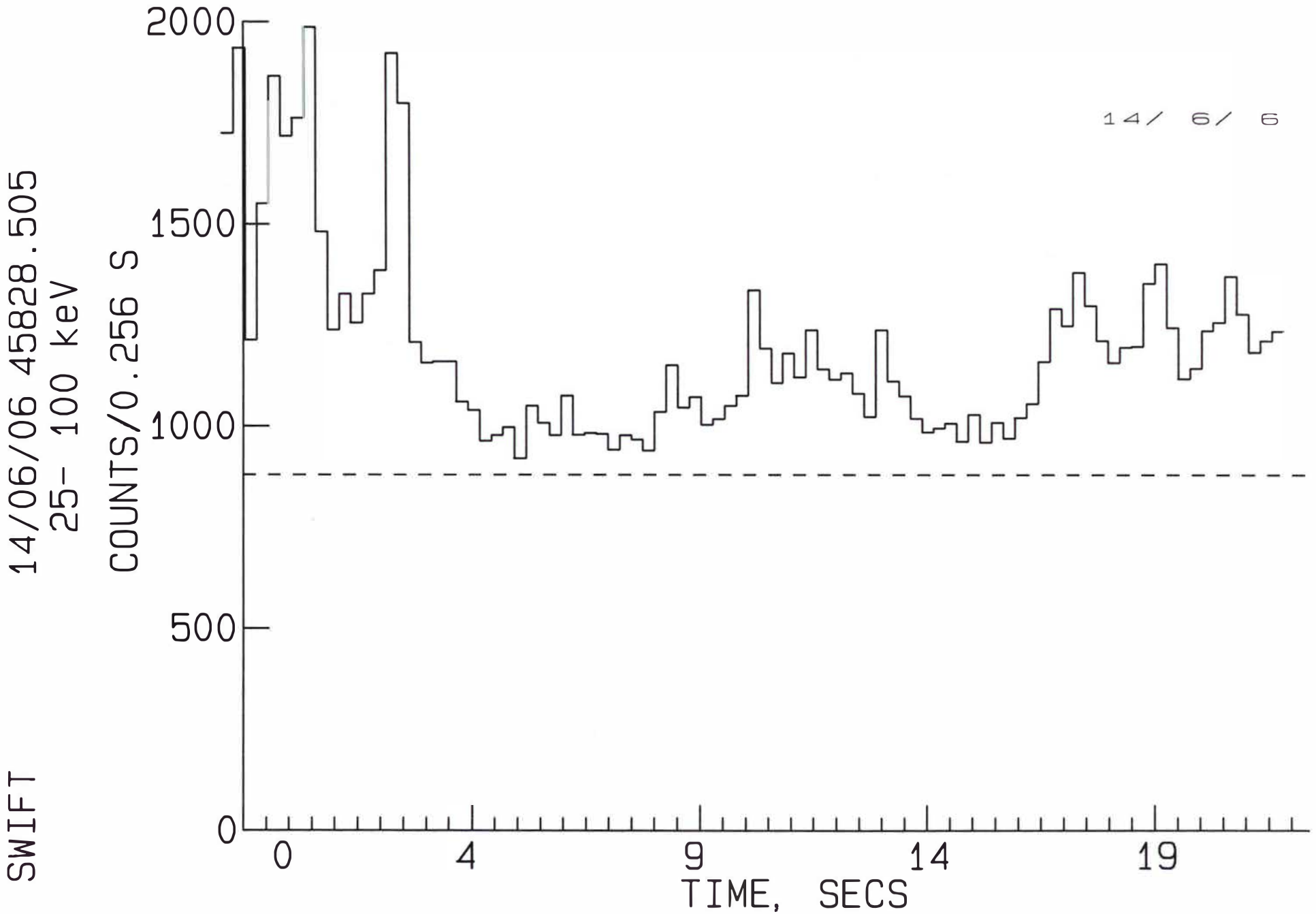


Data Start: 06/06/13, 0000:00 Plot created: 06/06/16, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

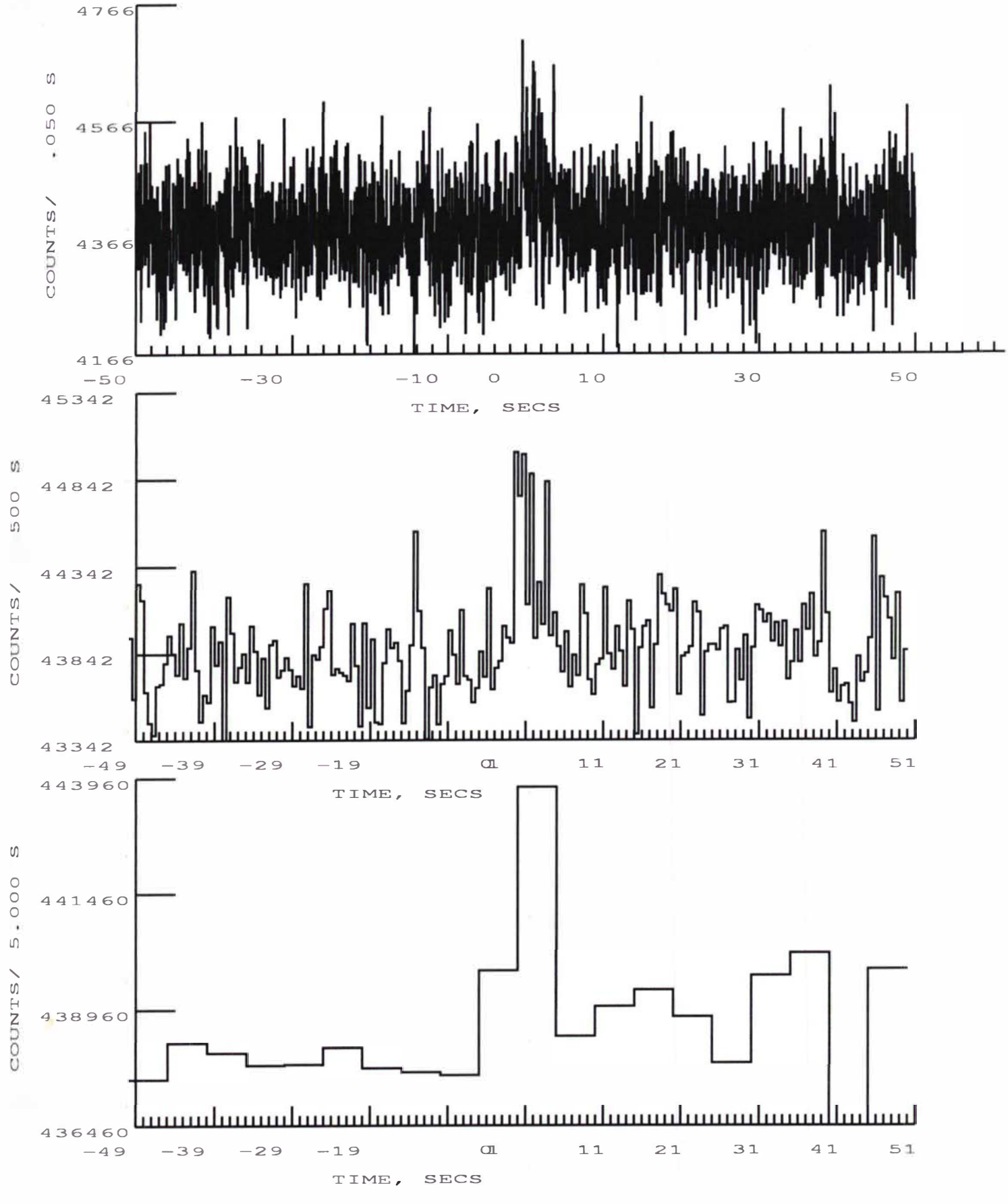
```
From vxw@capella.gsfc.nasa.gov Wed Jun 14 05:48:33 2006
X-ASG-Debug-ID: 1150289339-5bc200470000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: capella.gsfc.nasa.gov[128.183.16.187]
X-Barracuda-Start-Time: 1150289339
X-ASG-Whitelist:  Sender
Date: Wed, 14 Jun 2006 08:48:56 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: GCN/SWIFT_BAT_LIGHTCURVE
Subject: GCN/SWIFT_BAT_LIGHTCURVE
Mime-Version: 1.0
Content-Disposition: inline
User-Agent: Mutt/1.4.2.1i
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

TITLE:            GCN/SWIFT NOTICE
NOTICE_DATE:      Wed 14 Jun 06 12:48:09 UT
NOTICE_TYPE:      Swift-BAT GRB Lightcurve
TRIGGER_NUM:      214805,   Seg_Num: 0
GRB_RA:           320.862d {+21h 23m 27s} (J2000),
                  320.975d {+21h 23m 54s} (current),
                  319.985d {+21h 19m 56s} (1950)
GRB_DEC:          -53.034d {-53d 02' 02"} (J2000),
                  -53.006d {-53d 00' 21"} (current),
                  -53.249d {-53d 14' 54"} (1950)
GRB_DATE:         13900 TJD;   165 DOY;   06/06/14
GRB_TIME:         45828.50 SOD {12:43:48.50} UT
TRIGGER_INDEX:    151
 RB_PHI:           34.17 [deg]
 RB_THETA:         44.14 [deg]
DELTA_TIME:       64.00 [sec]
TRIGGER_DUR:      1.024 [sec]
SOLN_STATUS:      0x3
RATE_SIGNIF:      68.38 [sigma]
IMAGE_SIGNIF:     18.45 [sigma]
LC_URL:           sw00214805000msb.lc
SUN_POSTN:         82.74d {+05h 30m 57s}  +23.27d {+23d 16' 12"}
SUN_DIST:         127.34 [deg]   Sun_angle= 8.1 [hr] (West of Sun)
MOON_POSTN:       302.74d {+20h 10m 57s}  -24.58d {-24d 34' 44"}
MOON_DIST:         31.58 [deg]
MOON_ILLUM:       90 [%]
GAL_COORDS:       344.08,-43.94 [deg] galactic lon,lat of the burst (or transient
ECL_COORDS:       305.00,-35.60 [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 = 264.99,2.43 [deg]
```

102 s
2.17×10^{-5} erg cm^{-2}
11.6 phot/cm^2 s


SWIFT
14/06/06 45828.505
25- 100 keV
COUNTS/0.256 S
2000
1500
1000
500
0
0
4
9
14
19
TIME, SECS
14/ 6/ 6

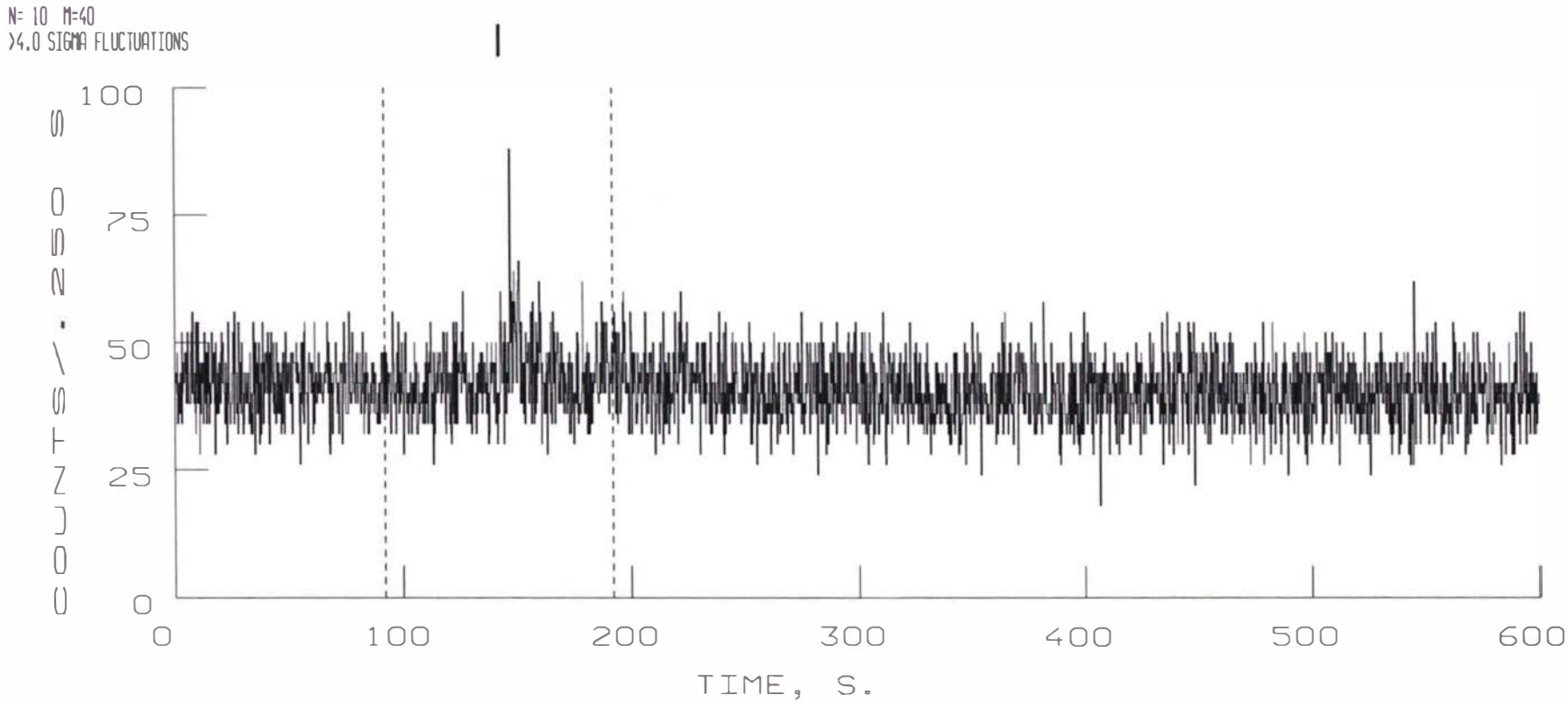
INTEGRAL 14/06/06 45828.000 12:43:48.0 11/07/14



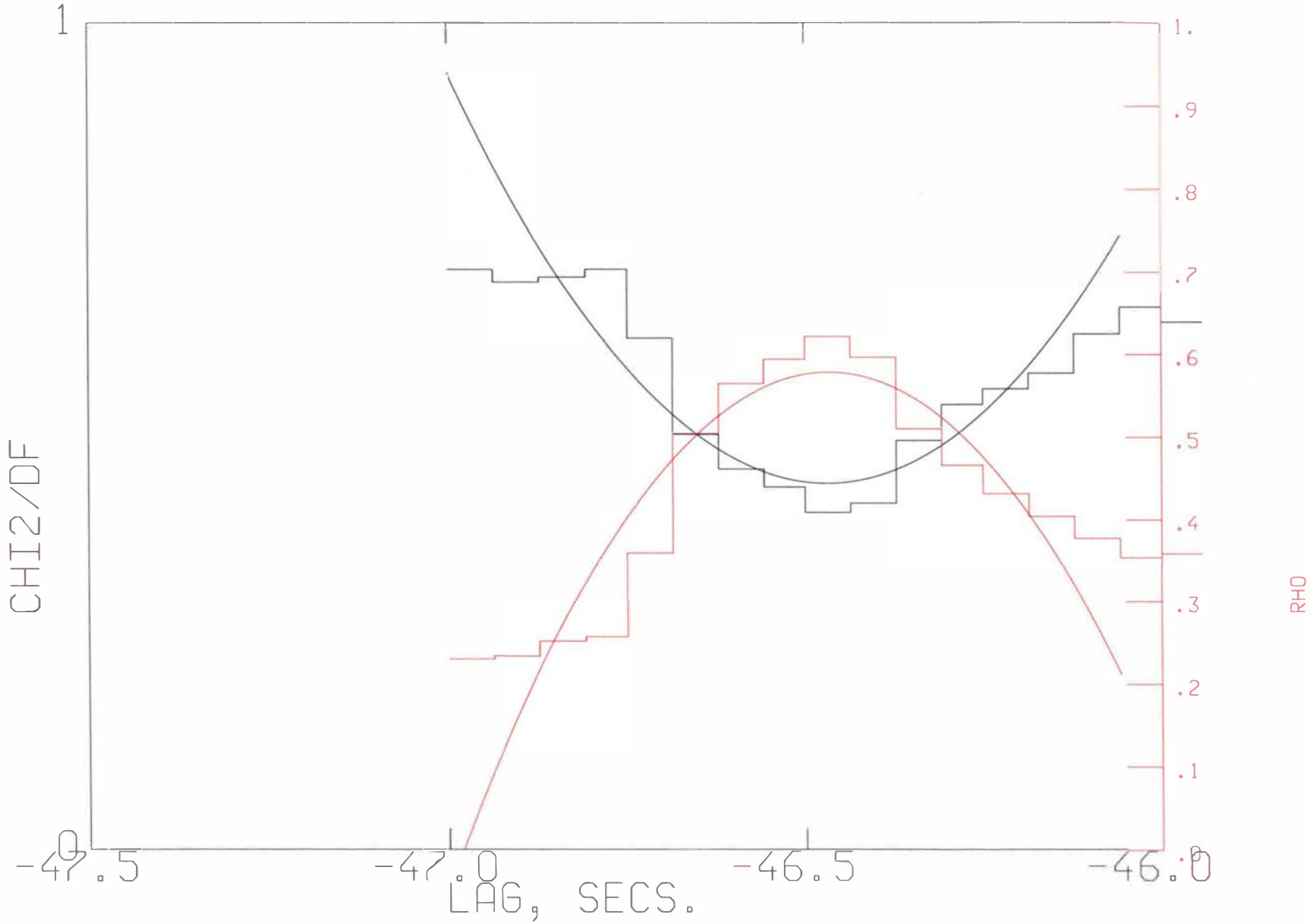
MS01 HEND 14/10/2011

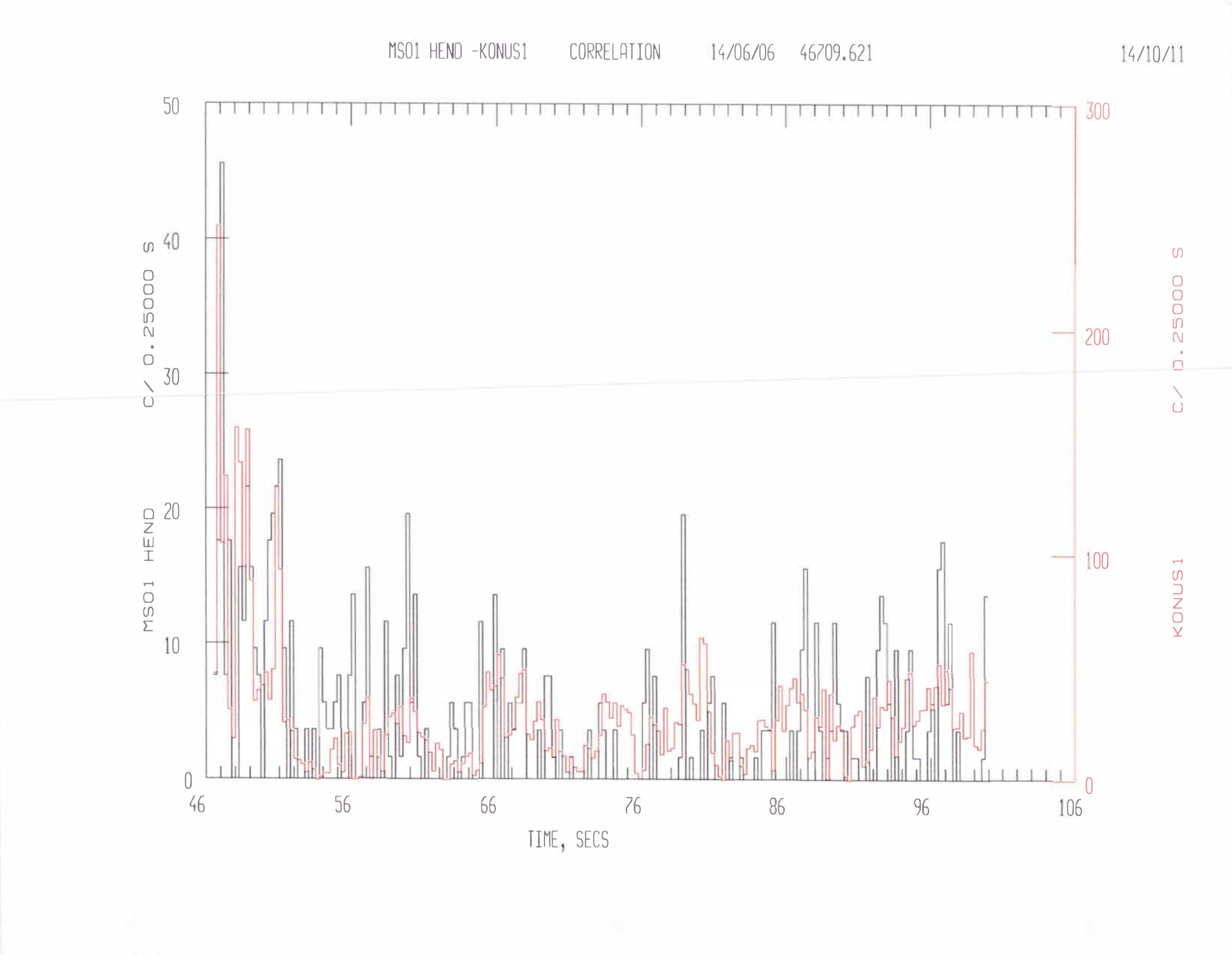
14/06/2006 46609.621 s

50-3000 keV



MS01 HEND -KONUS1 CORRELATION 14/06/06 46709.621

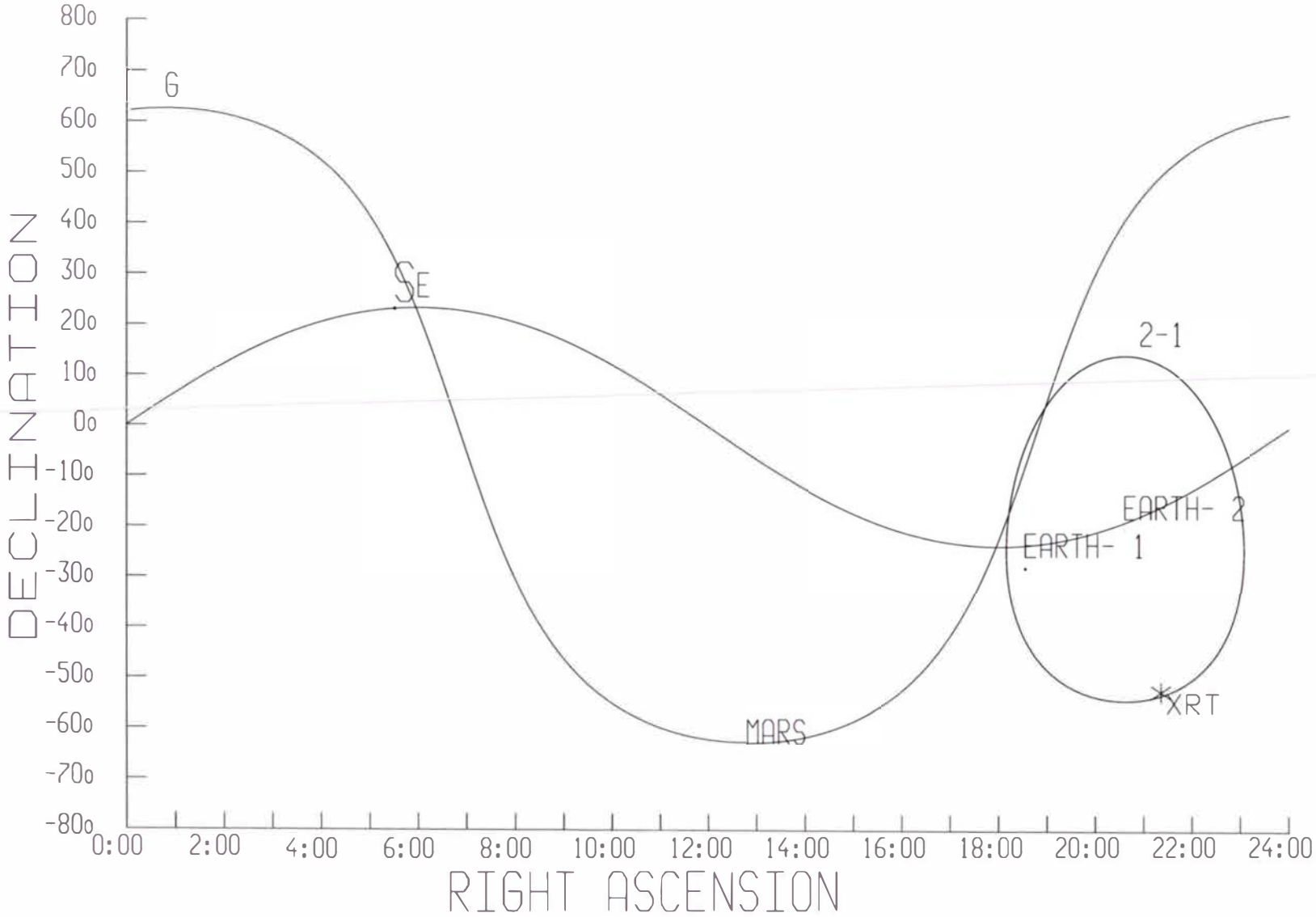


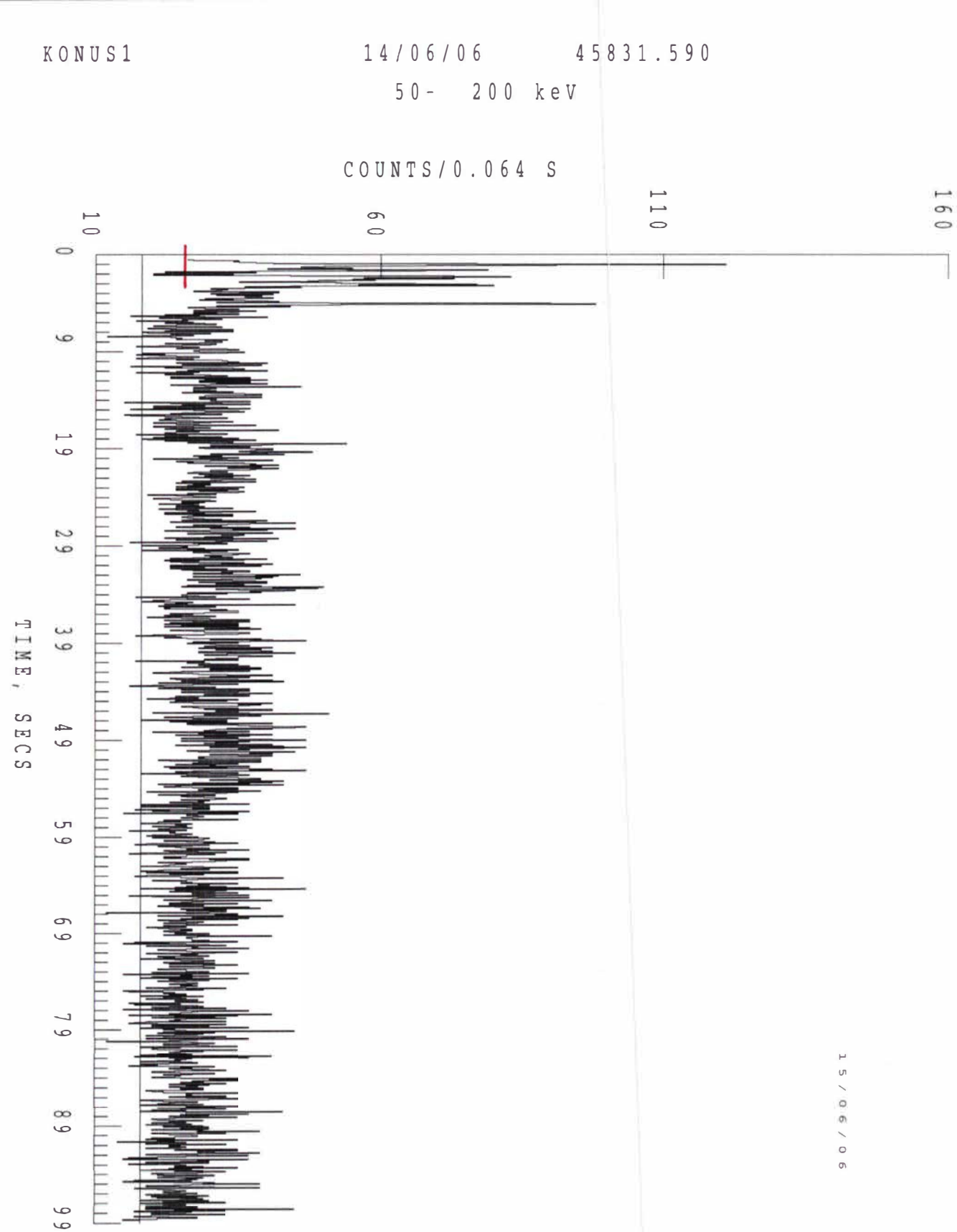

MS01 HEND -KONUS1 CORRELATION 14/06/06 46709.621
14/10/11
50
40
30
20
10
0
C/ 0.25000 S
MS01 HEND
300
200
100
0
C/ 0.25000 S
KONUS1
46
56
66
76
86
96
106
TIME, SECS

EVENT OF JUN 14, 2006 12:43

14/10/2011

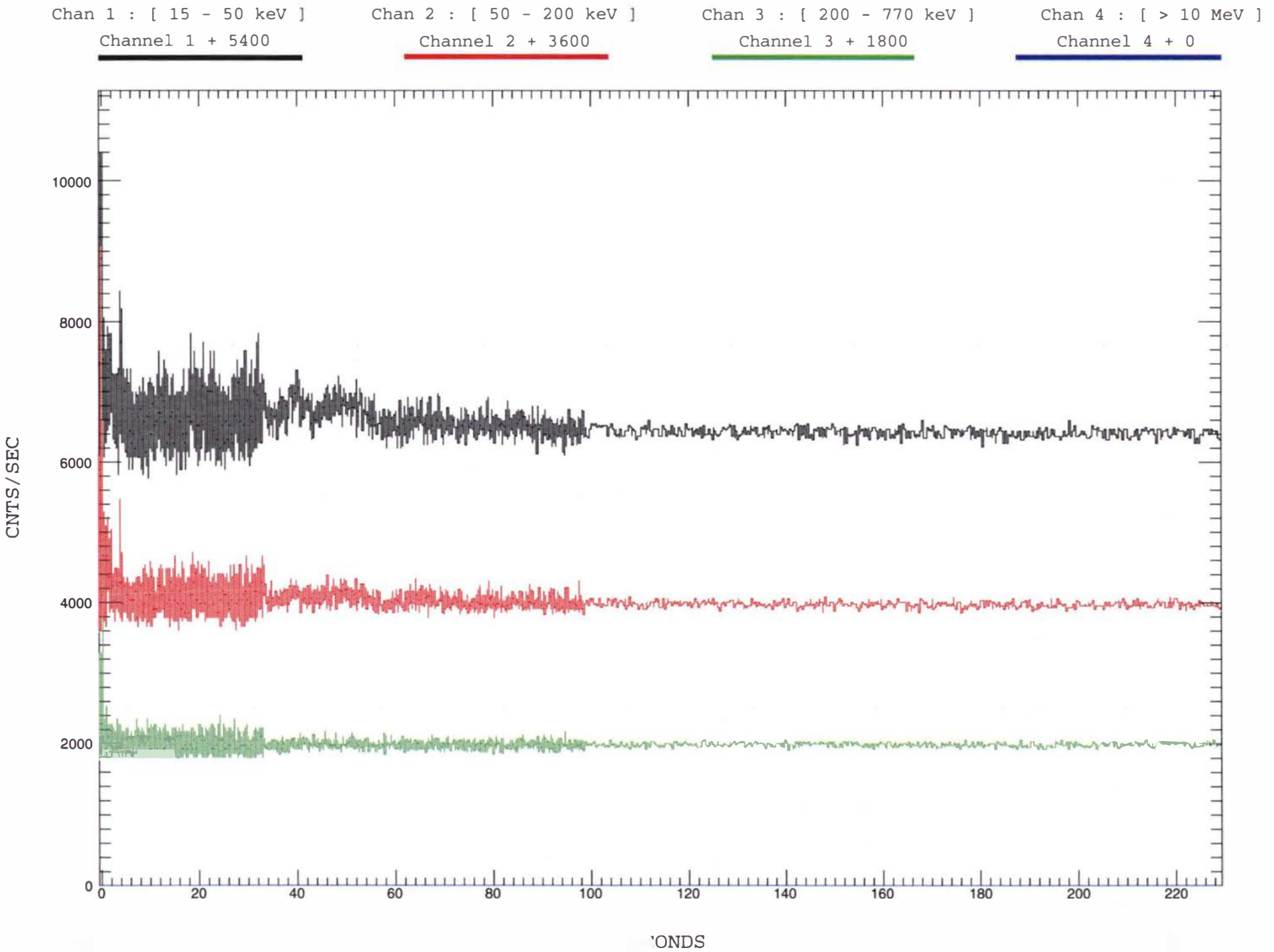
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 KONUS1 2 MO




KONUS1
14/06/06
45831.590
50- 200 keV
COUNTS/0.064 S
10
60
110
160
0
9
19
29
39
49
59
69
79
89
99
TIME, SECS
15/06/06

KONUS HRES 20060614 45831

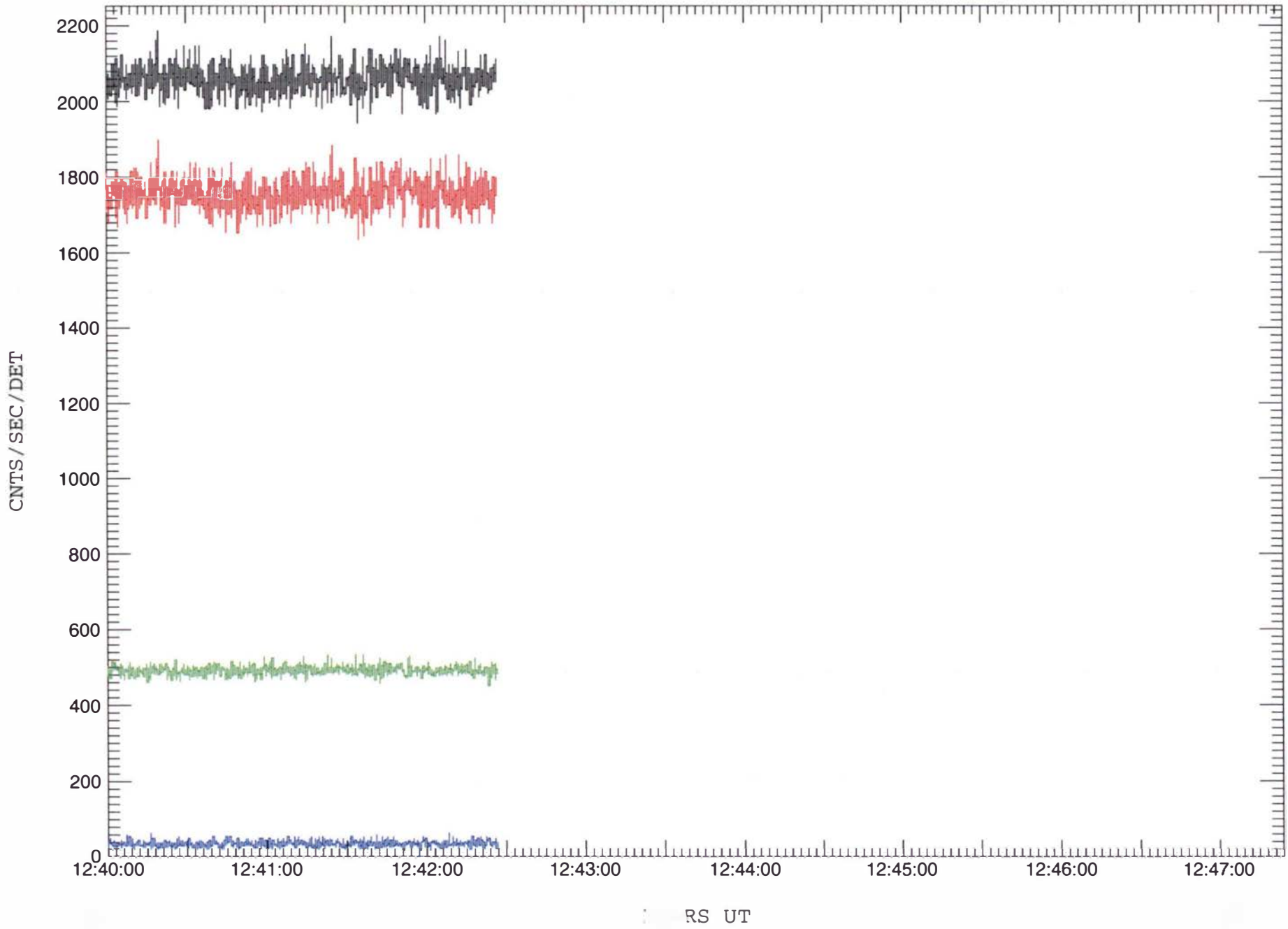
TRIGGER TIME: 14/06/06 DOY 165 Julian 2453902.03045 UT = 12.731 12:43:51 (45831.000 secs)

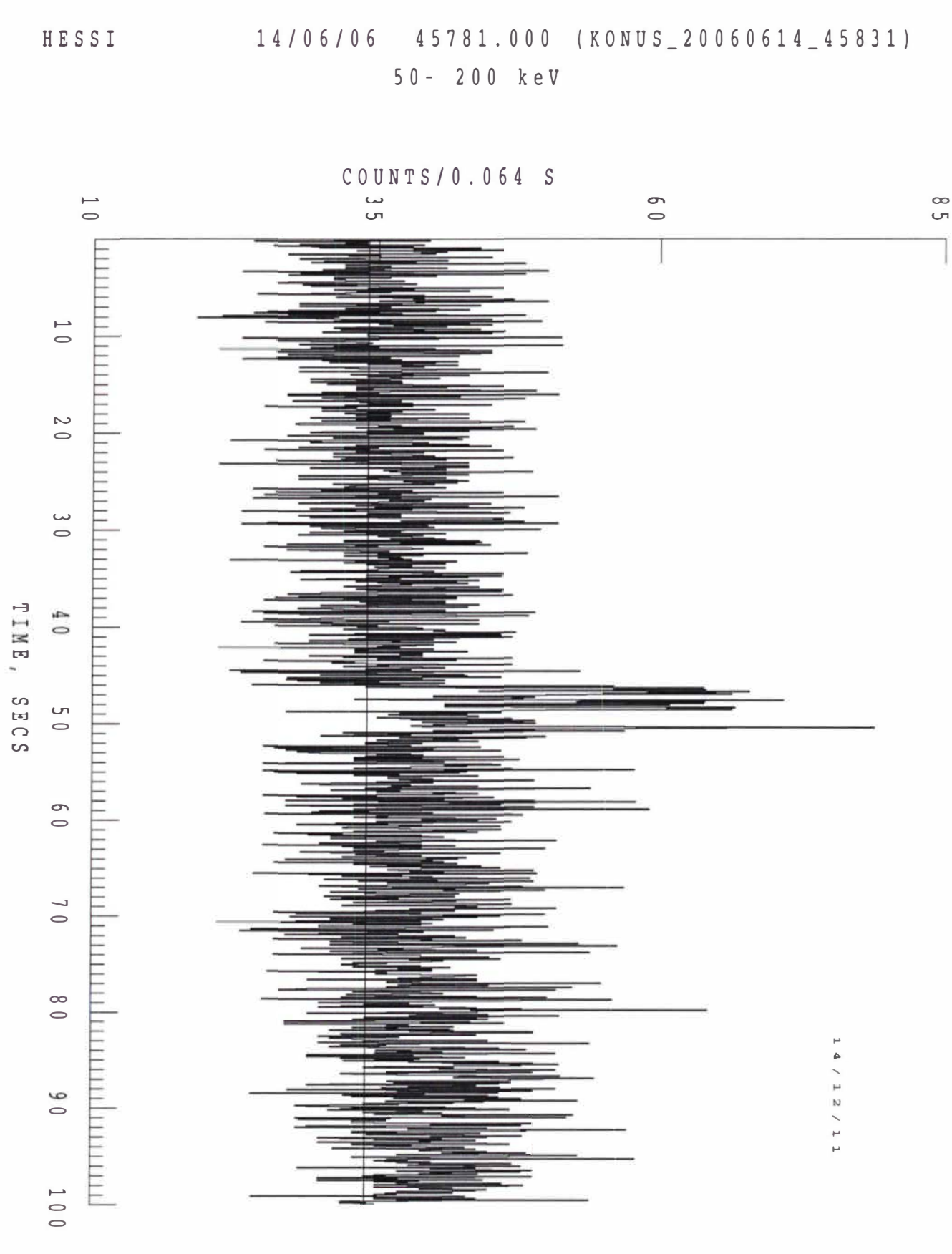


FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GSwift-BAT_214805_0_20060614_45828)

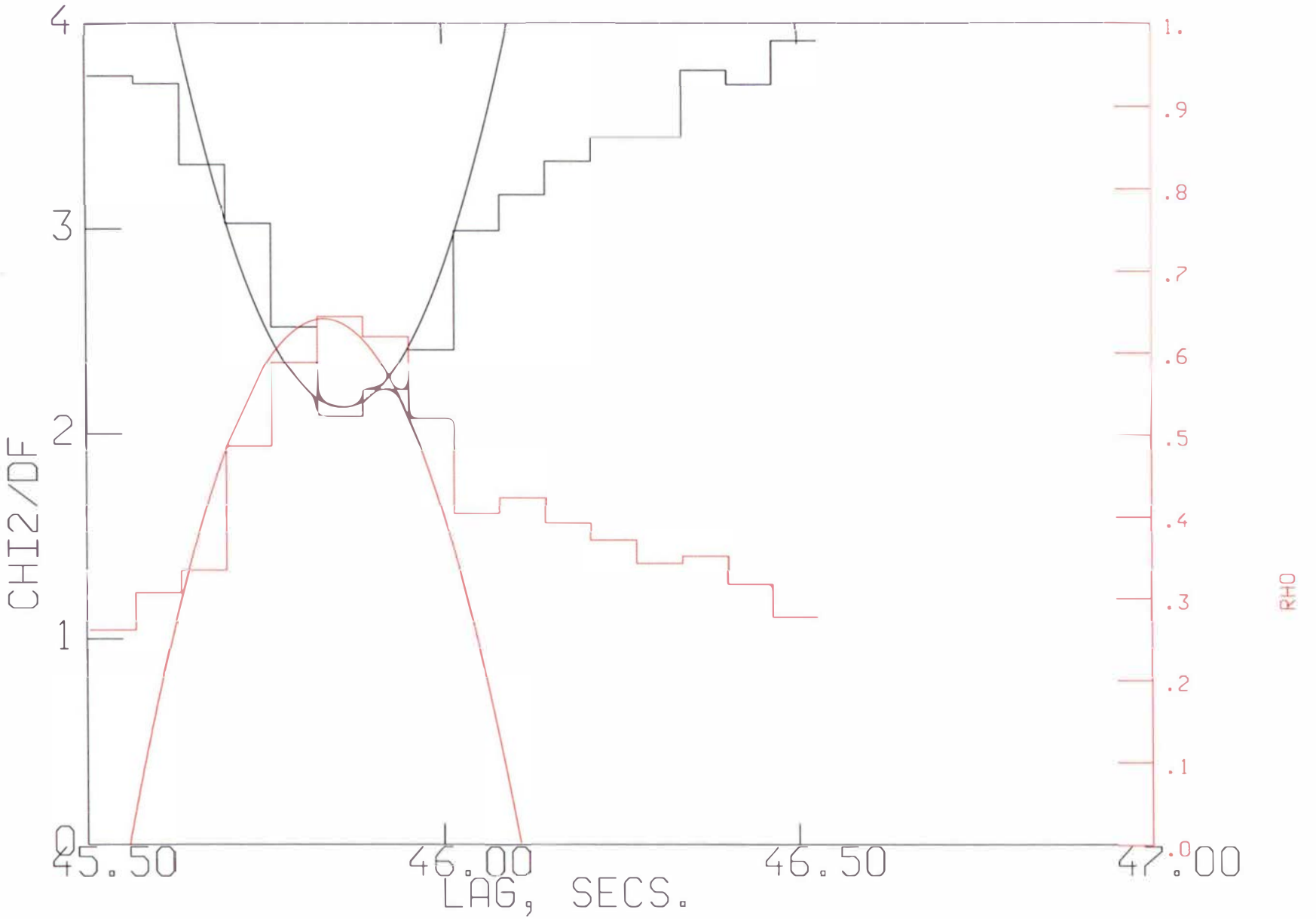
BEG TIME: 14/06/06 DOY 165 Julian 2453902.02792 UT = 12.670 12:40:12 (45612.000 secs) [sct = 0019 d3d5 7aed 26f9]
END TIME: 14/06/06 DOY 165 Julian 2453902.03292 UT = 12.790 12:47:24 (46044.000 secs) [sct = 0019 d3d5 94ac f45d]

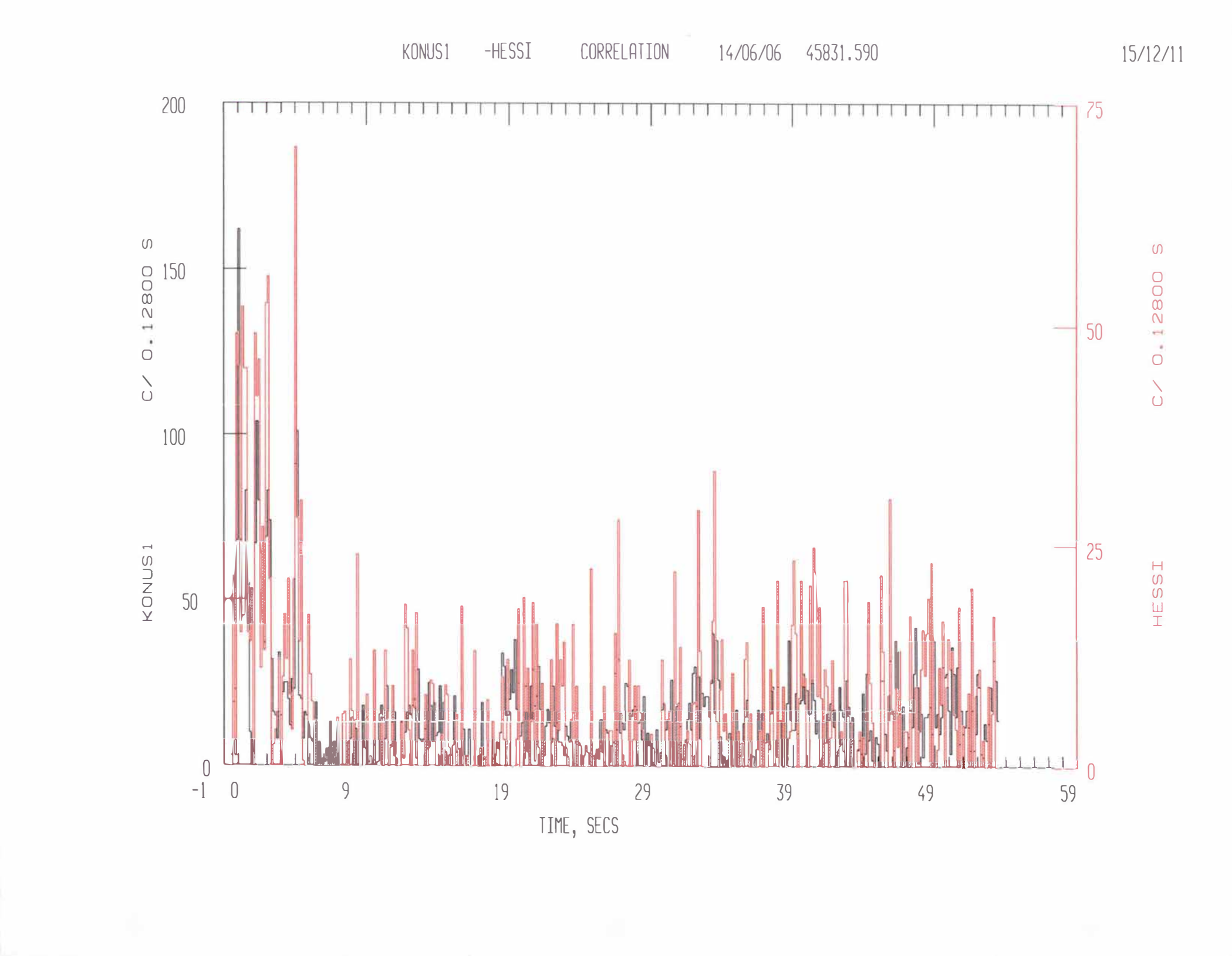
Chan 1:[E1=19 E2=129] Channel 1 + 1200
Chan 2:[E3=18 E4=154] Channel 2 + 800
Chan 3:[E5=39 E6=509] Channel 3 + 400
Chan 4:[E6=509 ->] Channel 4 + 0




HESSI 14/06/06 45781.000 (KONUS_20060614_45831)
50- 200 keV
COUNTS/0.064 S
10
35
60
85
10
20
30
40
50
60
70
80
90
100
TIME, SECS
14/12/11

KONUS1 -HESSI CORRELATION 14/06/06 45831.590

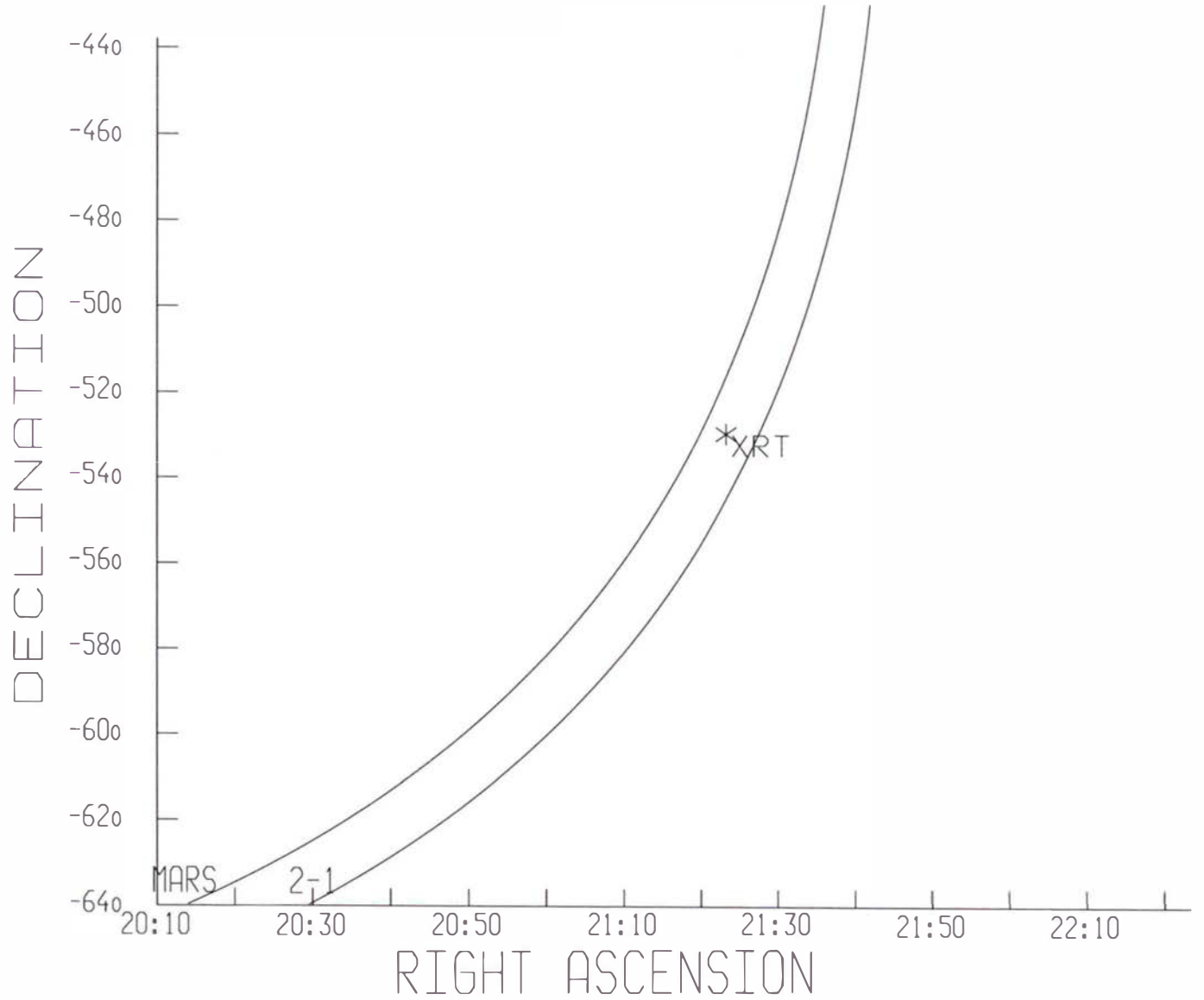



KONUS1 -HESSI CORRELATION 14/06/06 45831.590
15/12/11
200
150
100
50
0
-1
0
9
19
29
39
49
59
75
50
25
0
C/ 0.12800 S
KONUS1
C/ 0.12800 S
HESSI
TIME, SECS

EVENT OF JUN 14, 2006 12:43

15/12/2011

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



Date: Mar 16 2009

BURST TRIANGULATION CHECKLIST

1. Ulysses Data N/A

☐ Jim Schmidling's stat file correction applied?

☐ Final ephemeris used?

☐ Final, CDROM data used?

☐ Is the order of the data in CORREL such that a vernier is done on the data with the best time resolution?

2. For Konus events

☑ Konus ecliptic latitude used with latest calibration?

2. For Odyssey events N/A

☐ 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)

☐ 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?

2. For 3 or More Spacecraft events

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

3. 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?

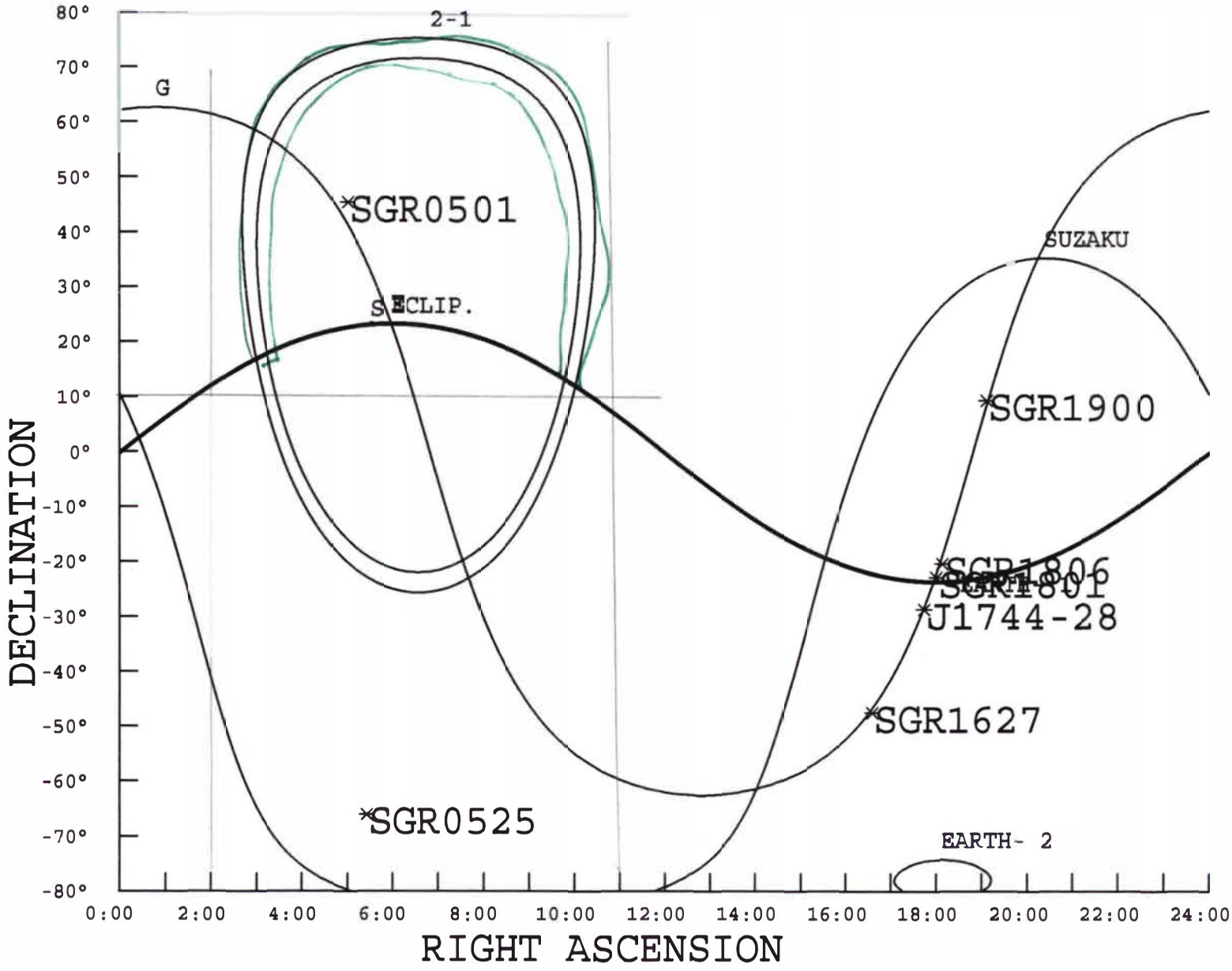
☐ Updated ephemeris used for bursts prior to September 30, 2003?

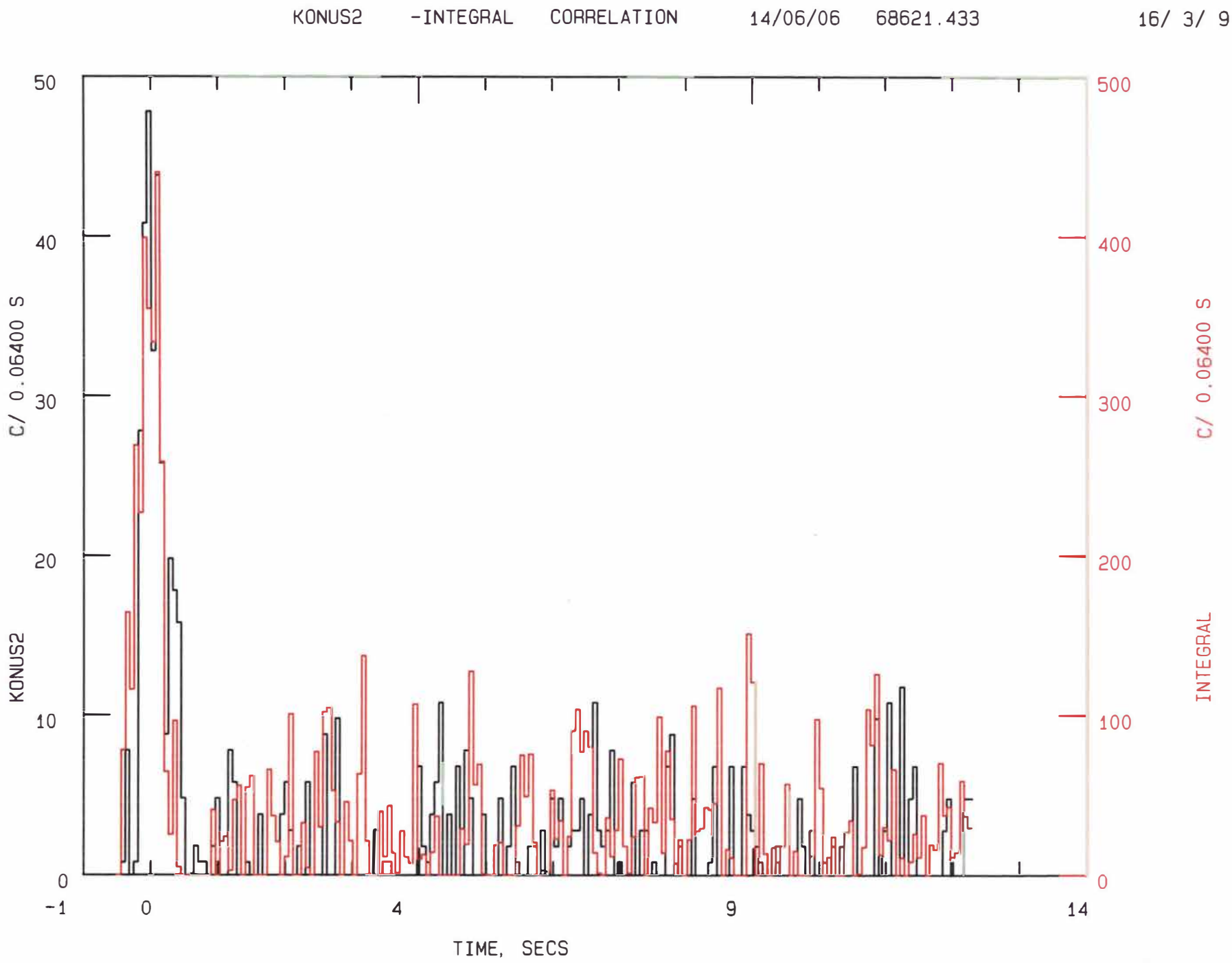
☑ ACCESS and MBL4 databases updated?

EVENT OF JUN 14, 2006 19:03

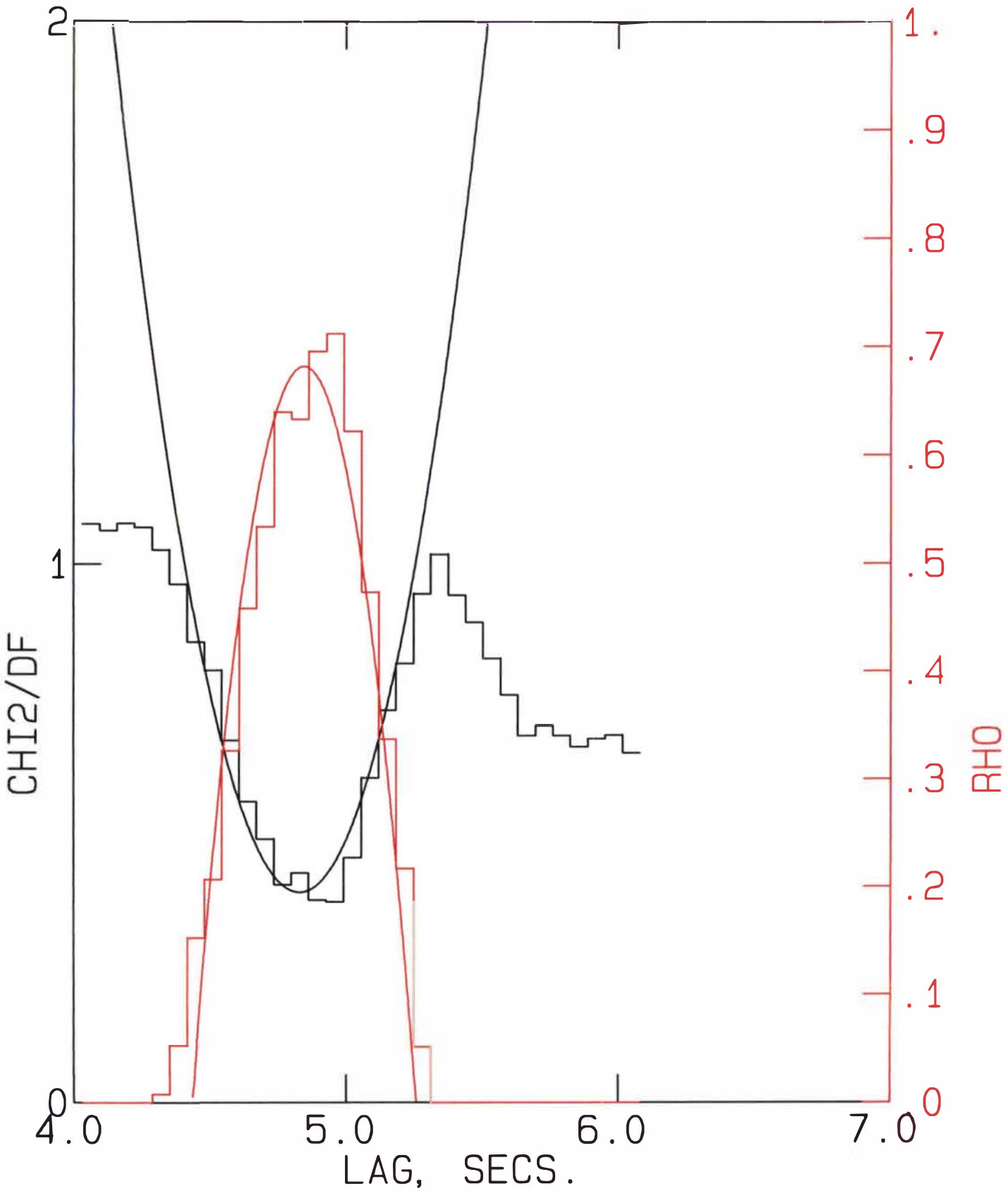
16/ 3/ 9

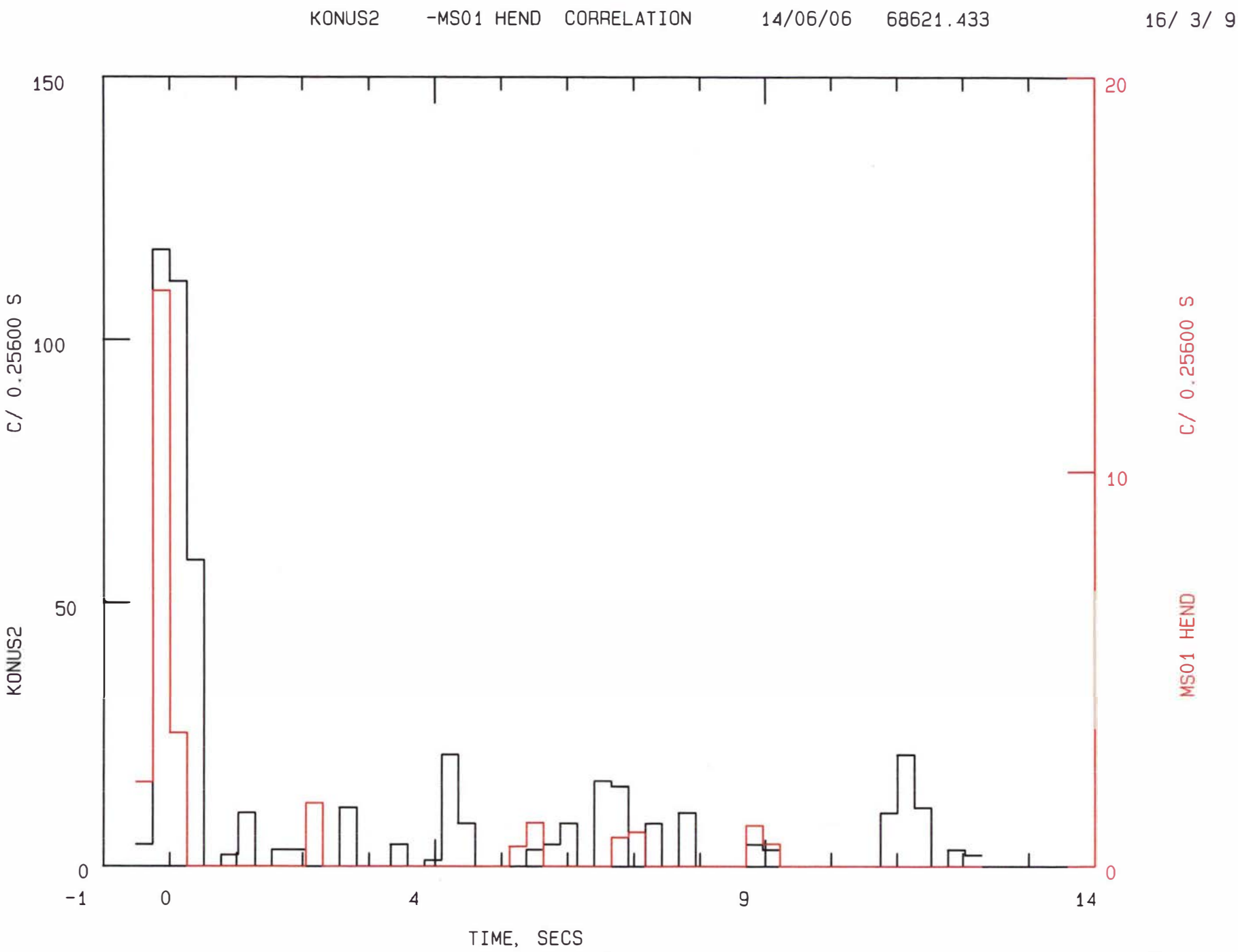
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 KONUS2 2 INTEGRAL



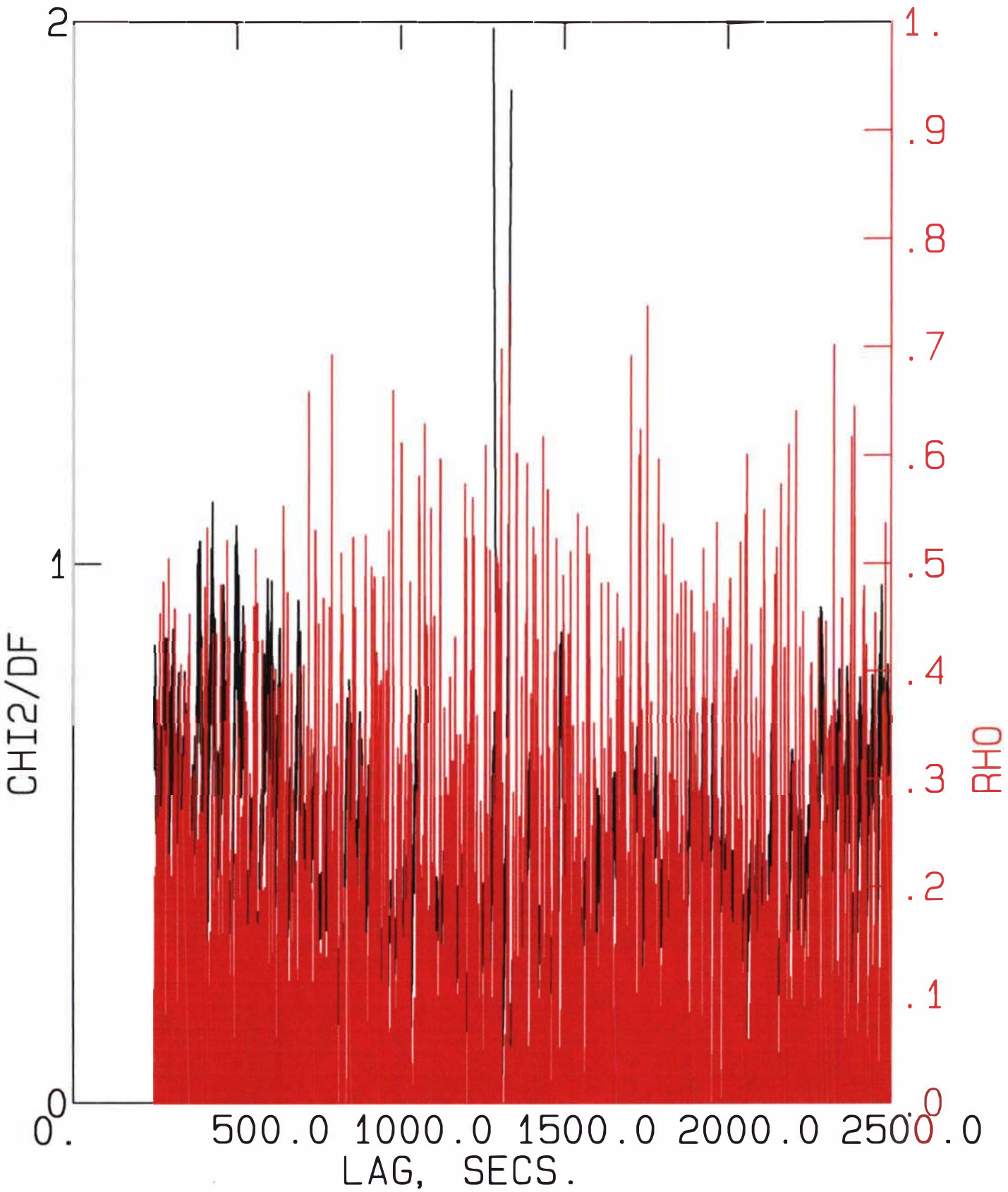

KONUS2 -INTEGRAL CORRELATION 14/06/06 68621.433 16/ 3/ 9
50
40
30
20
10
0
C/ 0.06400 S
KONUS2
500
400
300
200
100
0
C/ 0.06400 S
INTEGRAL
-1
0
4
9
14
TIME, SECS

KONUS2 -INTEGRAL CORRELATION 14/06/06 68621.433



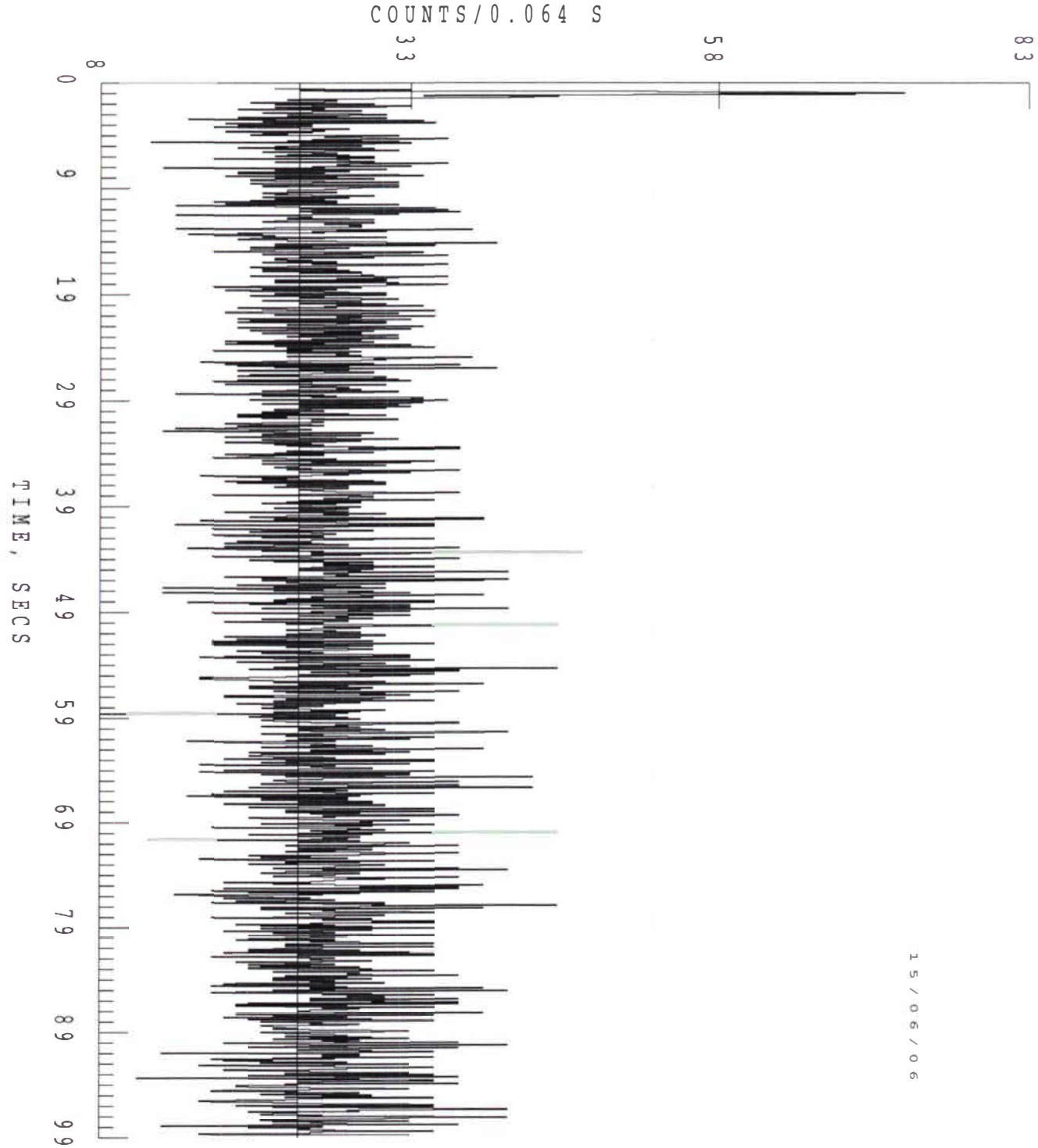

KONUS2 -MS01 HEND CORRELATION 14/06/06 68621.433 16/ 3/ 9
150
100
50
0
20
10
0
C/ 0.25600 S
KONUS2
C/ 0.25600 S
MS01 HEND
-1
0
4
9
14
TIME, SECS

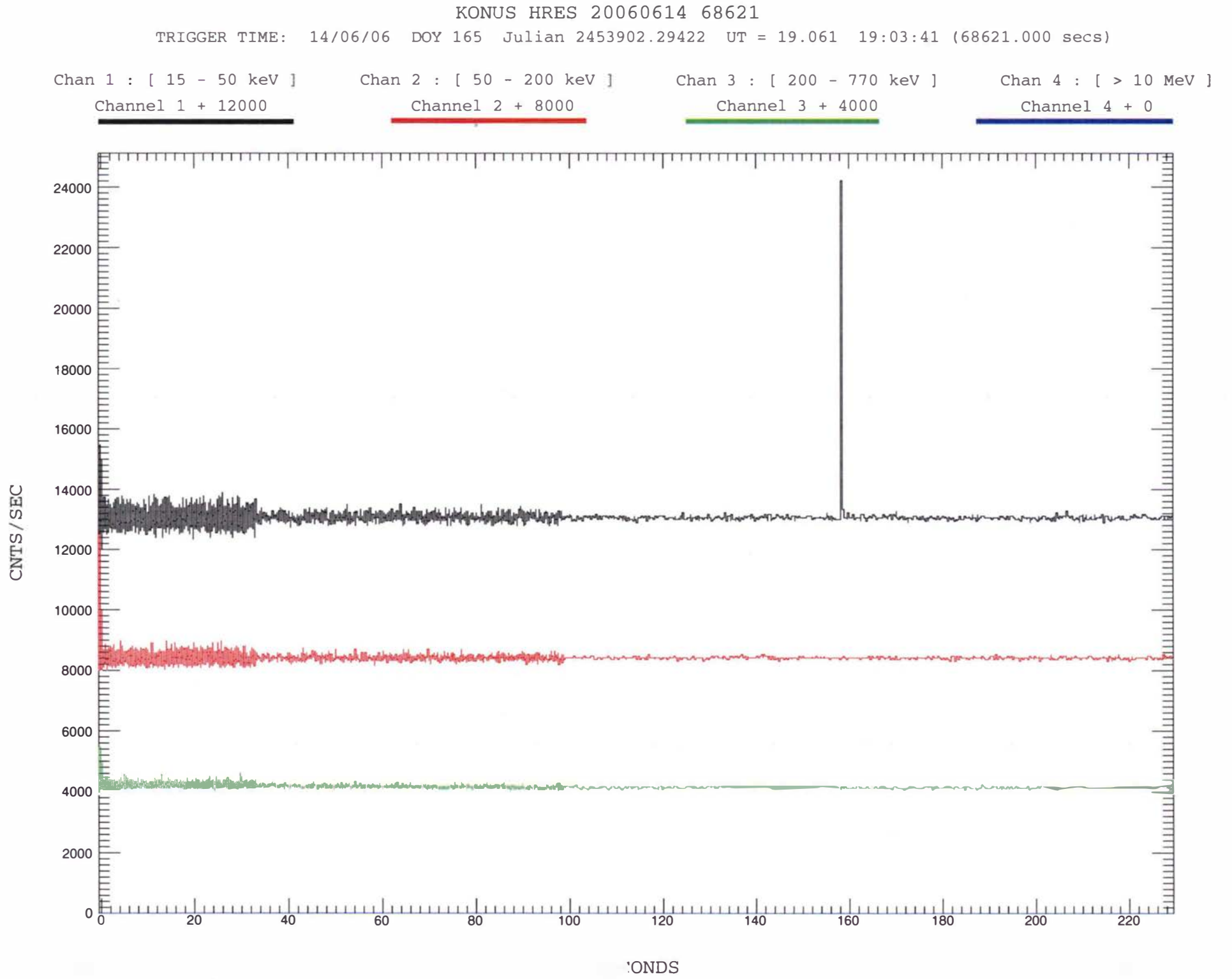
KONUS2 -MS01 HEND CORRELATION 14/06/06 68621.433



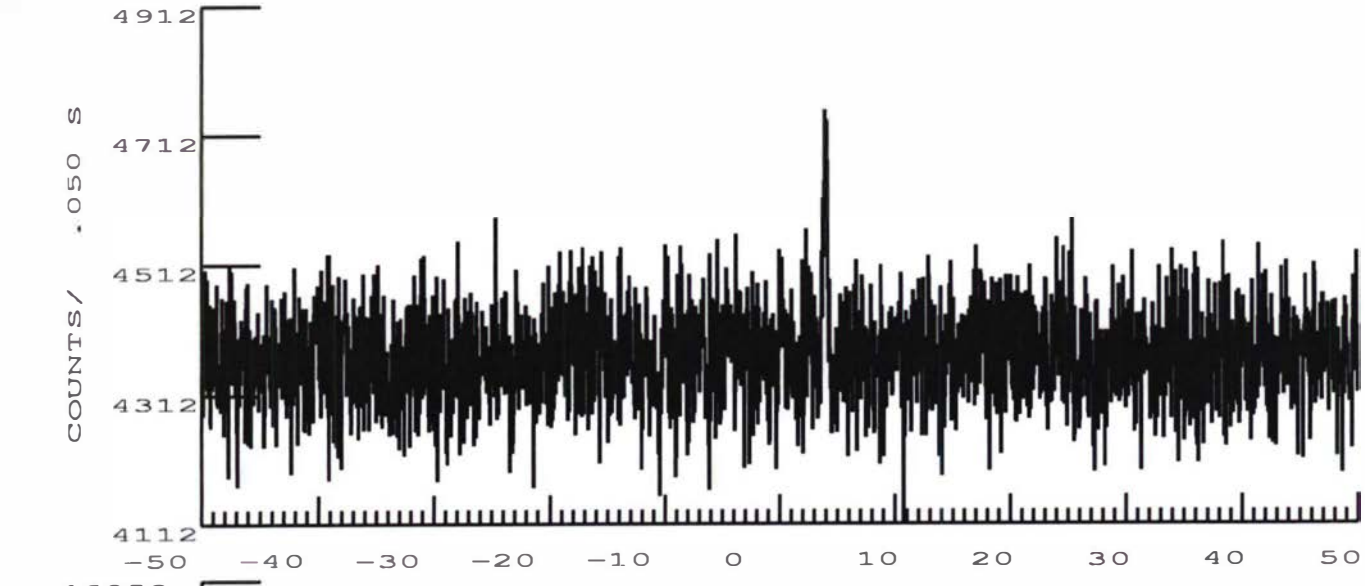
KONUS2 14/06/06 68621.433

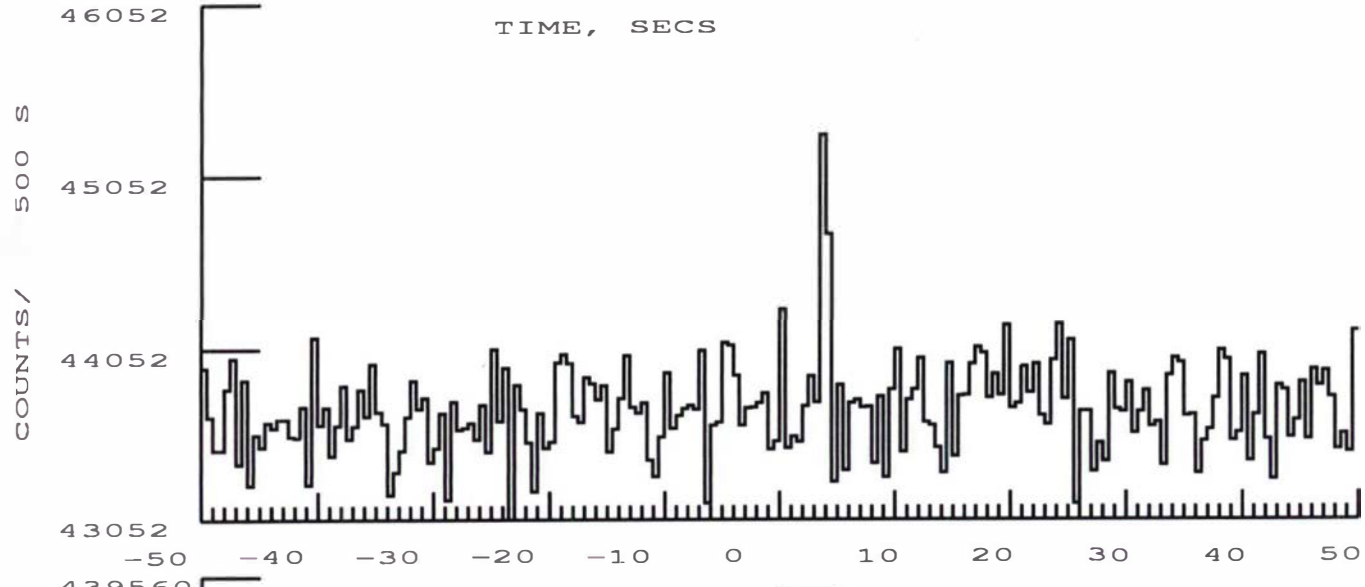
50- 200 keV 19:03:41

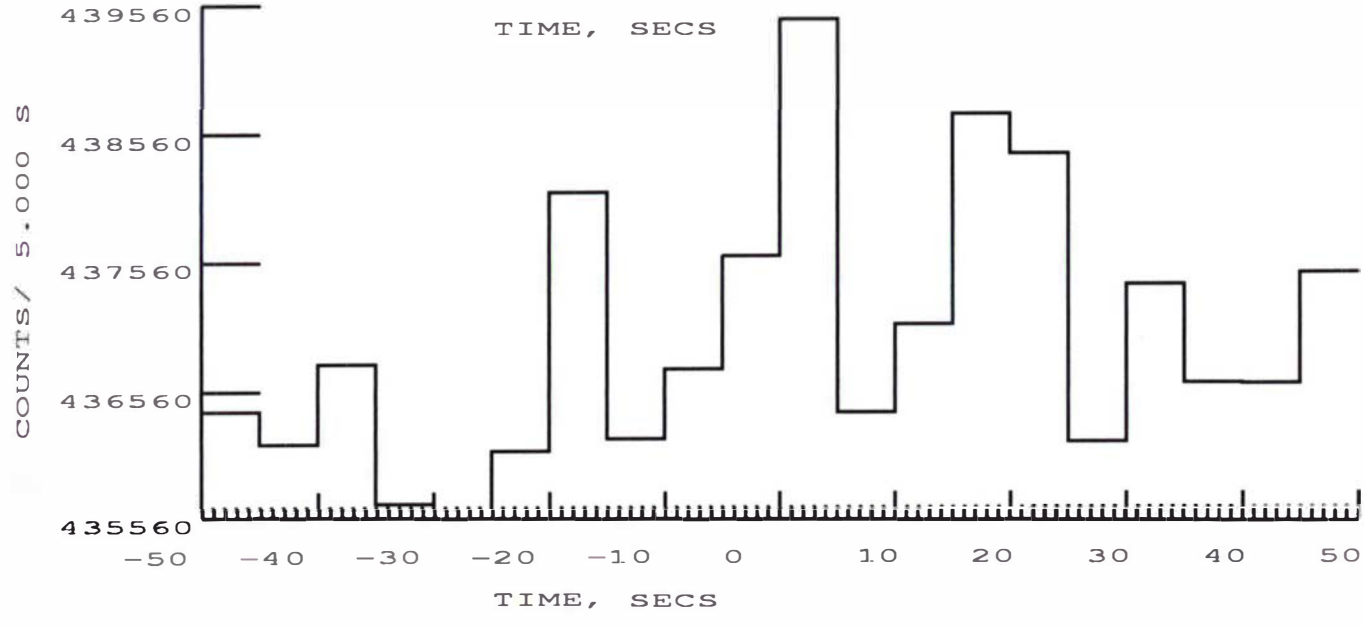



KONUS HRES 20060614 68621
TRIGGER TIME: 14/06/06 DOY 165 Julian 2453902.29422 UT = 19.061 19:03:41 (68621.000 secs)
Chan 1 : [15 - 50 keV]
Channel 1 + 12000
Chan 2 : [50 - 200 keV]
Channel 2 + 8000
Chan 3 : [200 - 770 keV]
Channel 3 + 4000
Chan 4 : [> 10 MeV]
Channel 4 + 0
CNTS/SEC
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
20
40
60
80
100
120
140
160
180
200
220
:ONDS

INTEGRAL 14/06/06 68621.000 19:03:41.0 02/09/15

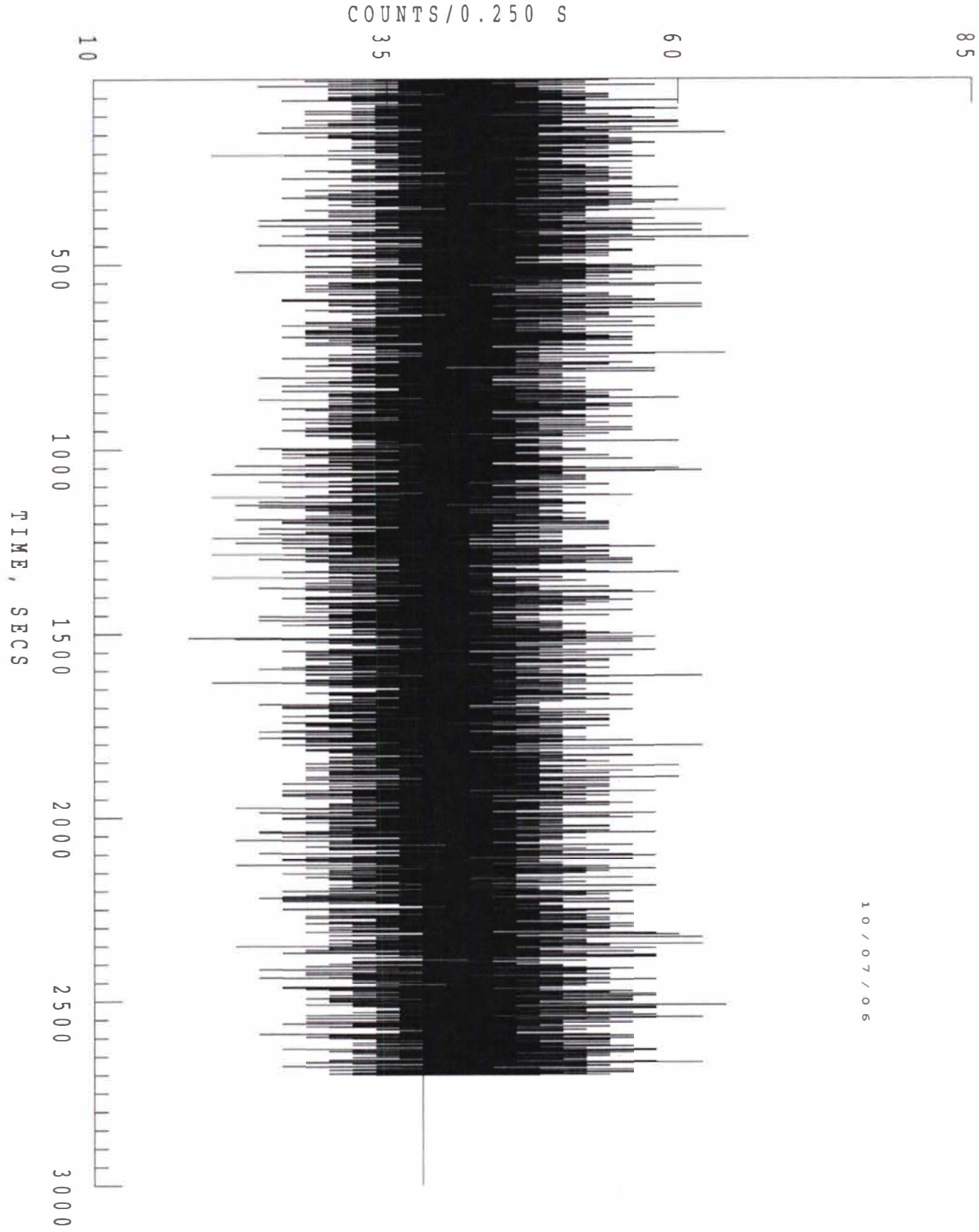


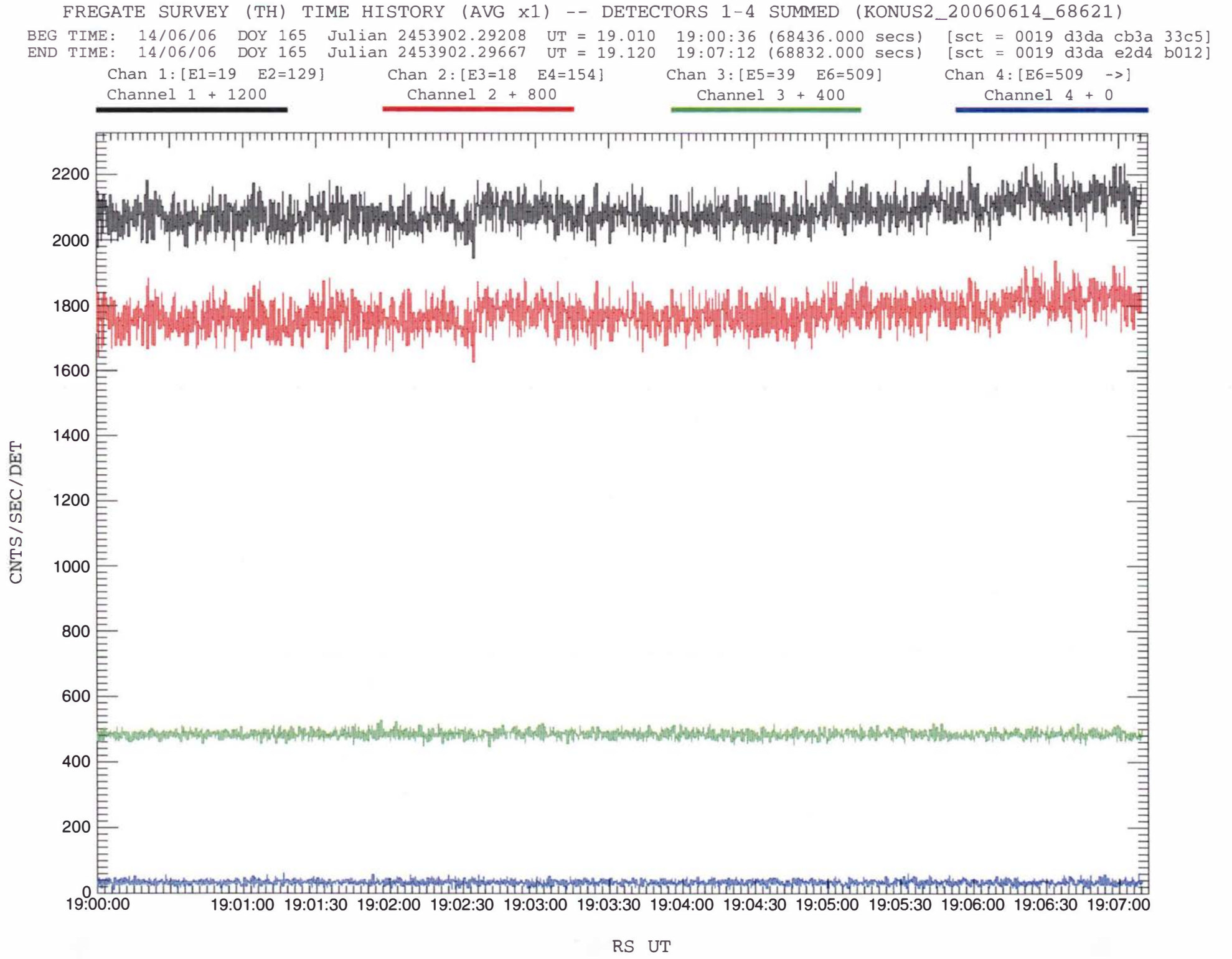




MS01 14/06/06 67249.248

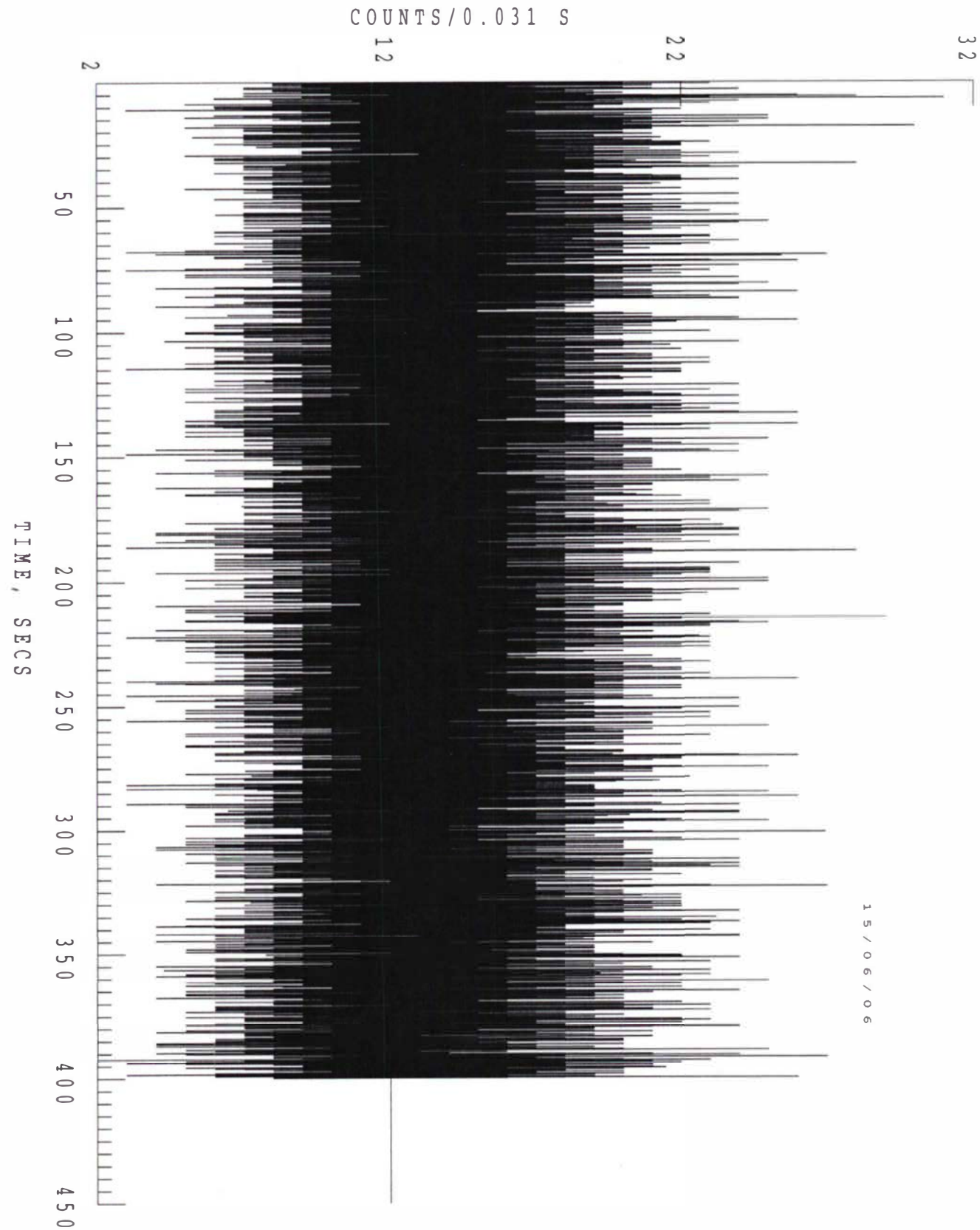
50- 3000 keV




FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20060614_68621)
BEG TIME: 14/06/06 DOY 165 Julian 2453902.29208 UT = 19.010 19:00:36 (68436.000 secs) [sct = 0019 d3da cb3a 33c5]
END TIME: 14/06/06 DOY 165 Julian 2453902.29667 UT = 19.120 19:07:12 (68832.000 secs) [sct = 0019 d3da e2d4 b012]
Chan 1:[E1=19 E2=129]
Channel 1 + 1200
Chan 2:[E3=18 E4=154]
Channel 2 + 800
Chan 3:[E5=39 E6=509]
Channel 3 + 400
Chan 4:[E6=509 ->]
Channel 4 + 0
CNTS/SEC/DET
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
19:00:00
19:01:00
19:01:30
19:02:00
19:02:30
19:03:00
19:03:30
19:04:00
19:04:30
19:05:00
19:05:30
19:06:00
19:06:30
19:07:00
RS UT

HESSI 14/06/06 68421.000 (KONUS2_20060614_68621)

25- 150 keV



From jayc@milkyway.gsfc.nasa.gov Thu Jun 15 15:17:15 2006
X-ASG-Debug-ID: 1150409863-1988003c0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: milkyway.gsfc.nasa.gov[128.183.16.143]
X-Barracuda-Start-Time: 1150409863
X-ASG-Whitelist: Sender
Mime-Version: 1.0
X-Sender: jayc@lheapop.gsfc.nasa.gov
Date: Thu, 15 Jun 2006 18:15:51 -0400
To: "val" <val@mail.ioffe.ru>, "Kevin Hurley" <khurley@ssl.berkeley.edu>,
"Kazutaka Yamaoka" <yamaoka@phys.aoyama.ac.jp>,
"Roland Vanderspek" <roland@space.mit.edu>,
<ohno@hirax7.hepl.hiroshima-u.ac.jp>,
"Hans Krimm" <krimm@milkyway.gsfc.nasa.gov>,
"Sergey Golenetskii" <golen@mail.ioffe.ru>
From: Jay Cummings <jayc@milkyway.gsfc.nasa.gov>
X-ASG-Orig-Subj: Re: short hard GRB 060614(B)
Subject: Re: short hard GRB 060614(B)
Cc: "val" <val@mail.ioffe.ru>
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

BAT sees nothing at this time.

At 1:56 AM +0400 6/16/06, val wrote:
>Dear colleagues,
>
>A short hard GRB triggered Konus-Wind
>at 2006-06-14 T0=68621.433 s UT (19:03:41.433).
The burst light curve shows a single pulse with a duration of ~0.6 sec.
The peak count rate is ~1200 cts/sec.
>The source of the burst is in the north ecliptic hemisphere.
>
>Any other detections?

--
Jay Cummings

From yamaoka@phys.aoyama.ac.jp Thu Jun 15 18:43:07 2006
X-ASG-Debug-ID: 1150422081-6cfd00310000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: scmailgw1.scop.aoyama.ac.jp[133.2.251.194]
X-Barracuda-Start-Time: 1150422081
To: val@mail.ioffe.ru
Cc: khurley@ssl.berkeley.edu, jayc@milkyway.gsfc.nasa.gov,
roland@space.mit.edu, ohno@hirax7.hepl.hiroshima-u.ac.jp,
krimm@milkyway.gsfc.nasa.gov, golen@mail.ioffe.ru
Cc: news-hxd-ipn@amalthea.phys.s.u-tokyo.ac.jp, yamaoka@phys.aoyama.ac.jp
X-ASG-Orig-Subj: Re: short hard GRB 060614(B)
Subject: Re: short hard GRB 060614(B)
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
Date: Fri, 16 Jun 2006 10:39:50 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
X-Dispatcher: imput version 20000228(IM140)
X-Barracuda-Bayes: INNOCENT GLOBAL 0.0317 1.0000 -1.8160
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-Barracuda-Spam-Report: Code version 3.02, rules version 3.0.14898
Rule breakdown below pts rule name description
---- ---------------------- --

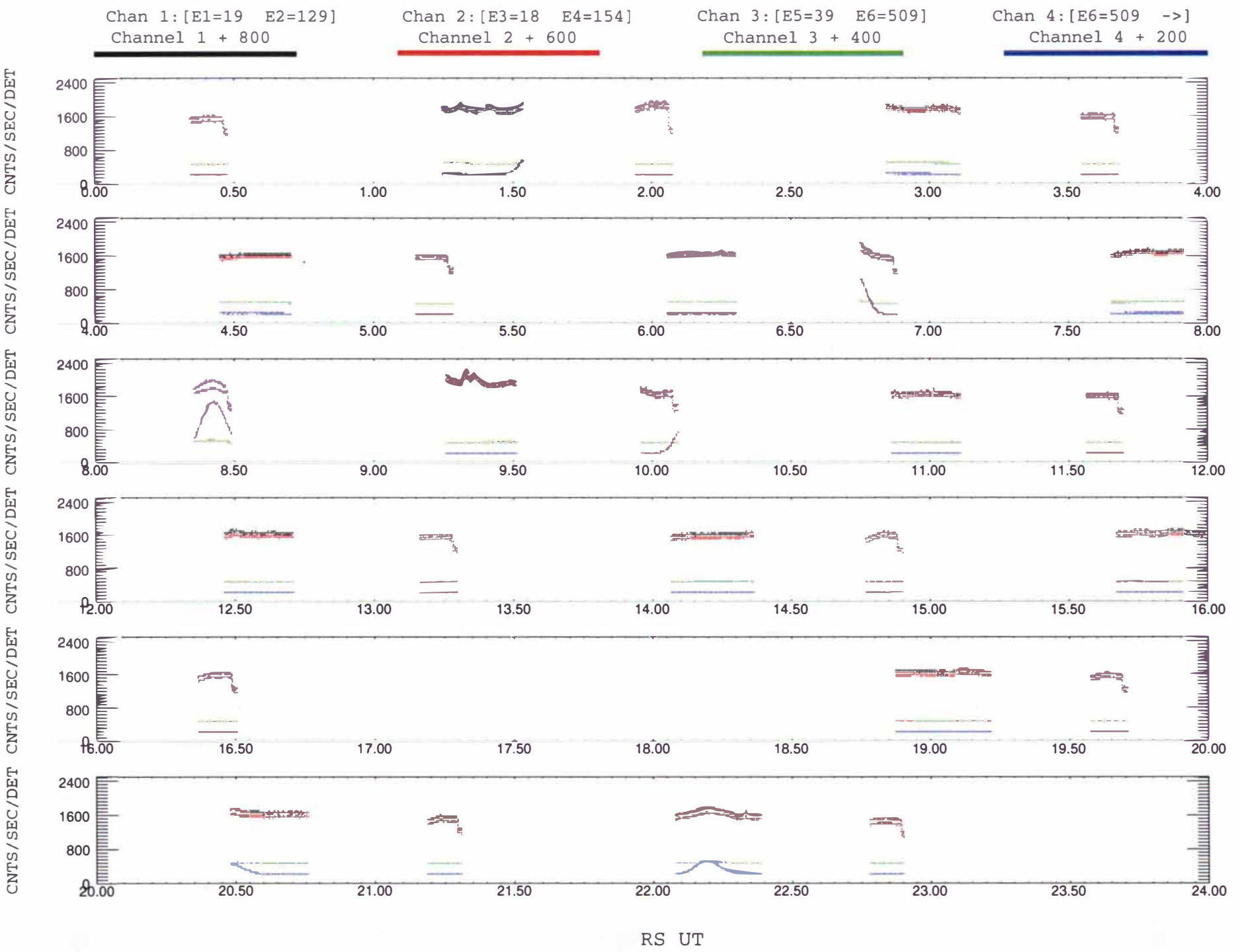
Dear Valentin,

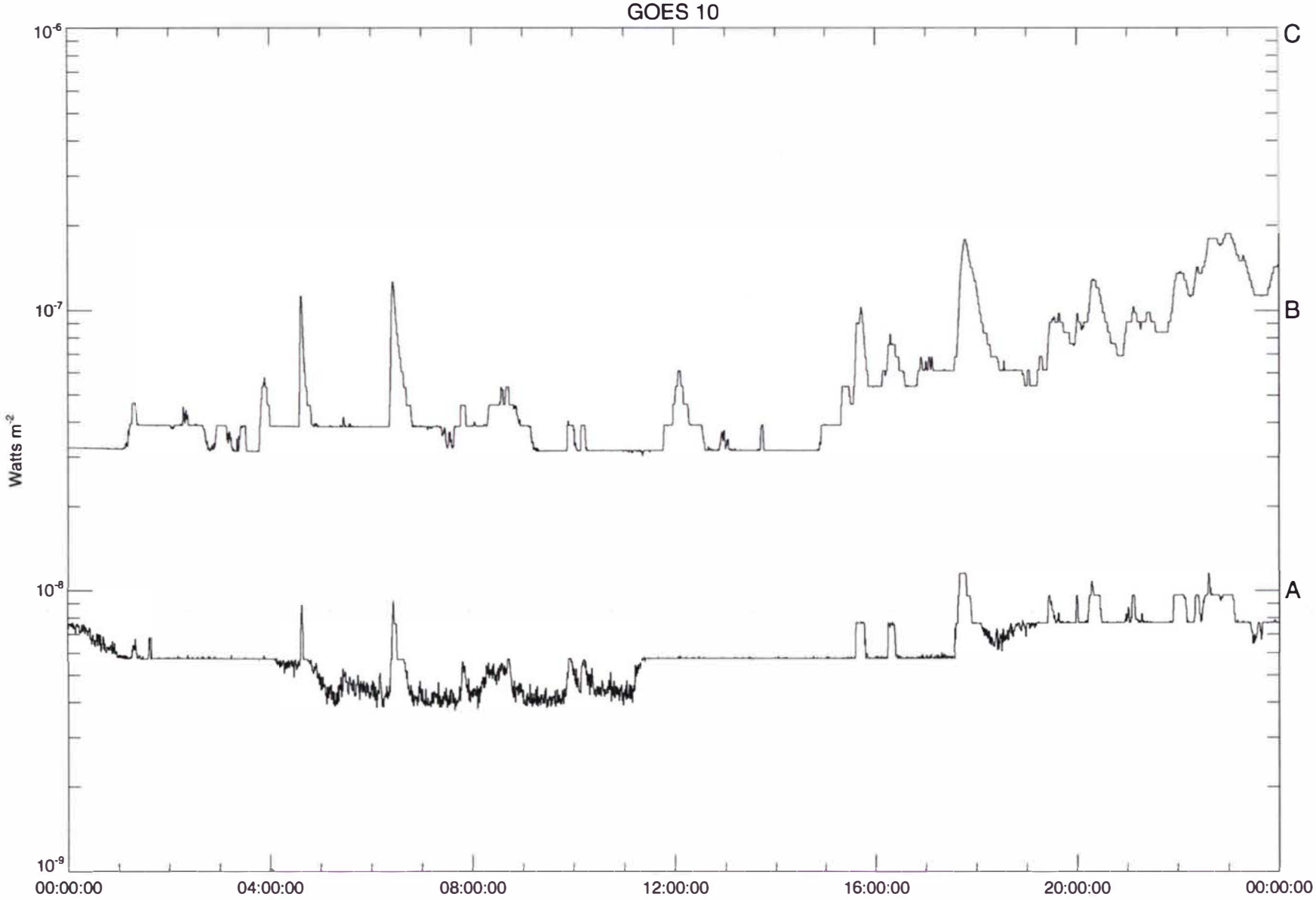
We can clearly see this event in the TRN data, but
not triggered because the status is already frozen.

Best regards,
Kazu
on behalf of the WAM team

From: "val" <val@mail.ioffe.ru>
Subject: short hard GRB 060614(B)
Date: Fri, 16 Jun 2006 01:56:56 +0400
Message-ID: <008301c690c6$a0dd7470$a2e055c2@home>

> Dear colleagues,
>
> A short hard GRB triggered Konus-Wind
> at 2006-06-14 T0=68621.433 s UT (19:03:41.433).
> The burst light curve shows a single pulse with a duration of ~0.6 sec.
> The peak count rate is ~1200 cts/sec.
> The source of the burst is in the north ecliptic hemisphere.
>
> Any other detections?
>
>


FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED
14/06/06 DOY 165 Julian 2453901.50000 [est. sct = 0019 d3ca dc3c b157]
Chan 1:[E1=19 E2=129]
Channel 1 + 800
Chan 2:[E3=18 E4=154]
Channel 2 + 600
Chan 3:[E5=39 E6=509]
Channel 3 + 400
Chan 4:[E6=509 ->]
Channel 4 + 200
CNTS/SEC/DET
2400
1600
800
0
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.00
8.50
9.00
9.50
10.00
10.50
11.00
11.50
12.00
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12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00
16.00
16.50
17.00
17.50
18.00
18.50
19.00
19.50
20.00
20.00
20.50
21.00
21.50
22.00
22.50
23.00
23.50
24.00
RS UT



Data Start: 06/06/14, 0000:00 Plot created: 06/06/17, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

Date: Jun 29 2010

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

☐ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

2. AGILE Data

☐ 1 second timing error corrected?

3. MESSENGER Data

☐ Coarse or fine oscillator?

☐ 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)

☐ 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

☐ Σ 3Δt'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?

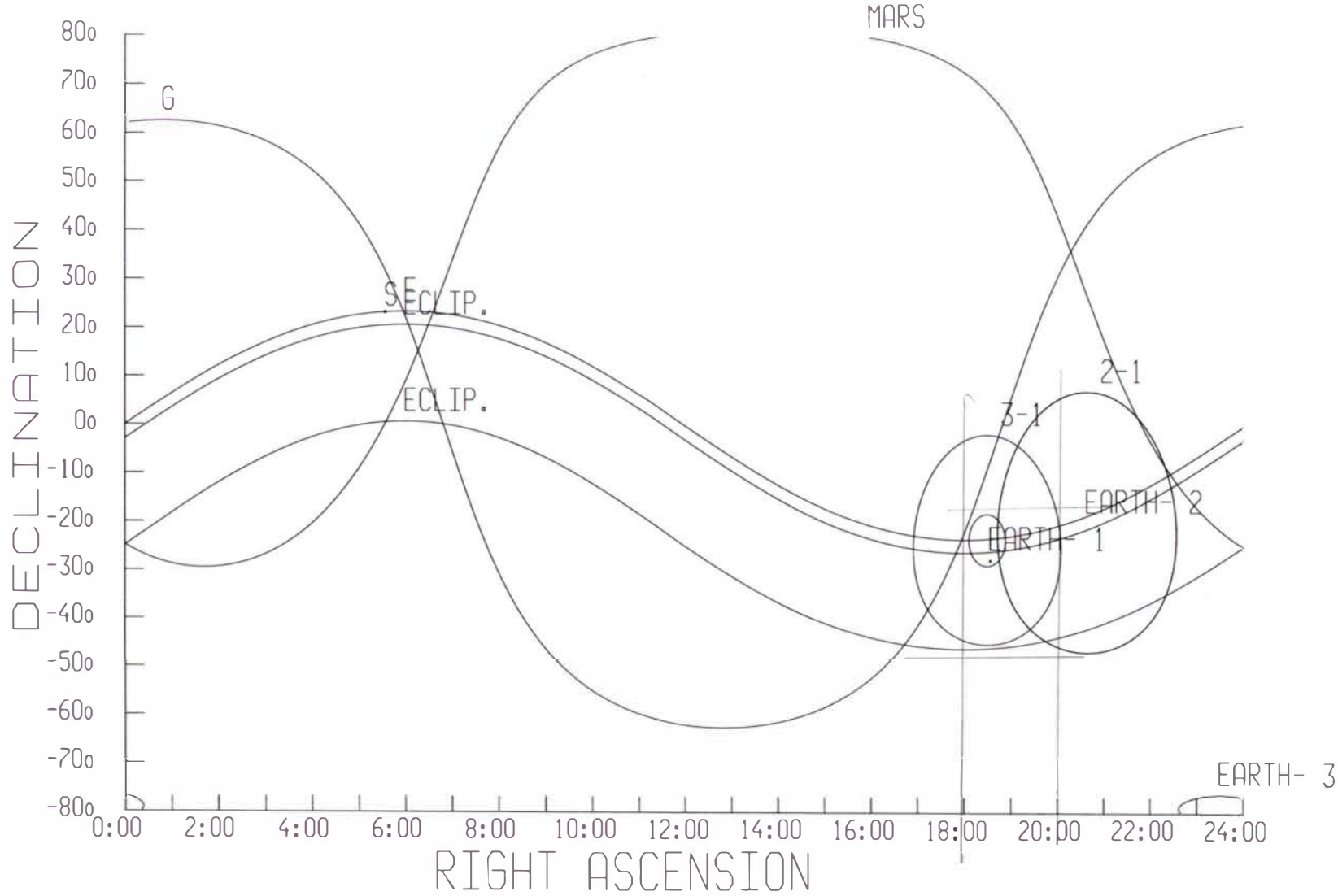
☐ Updated ephemeris used for bursts prior to September 30, 2003?

☑ ACCESS and MBL4 databases updated, with identical times?

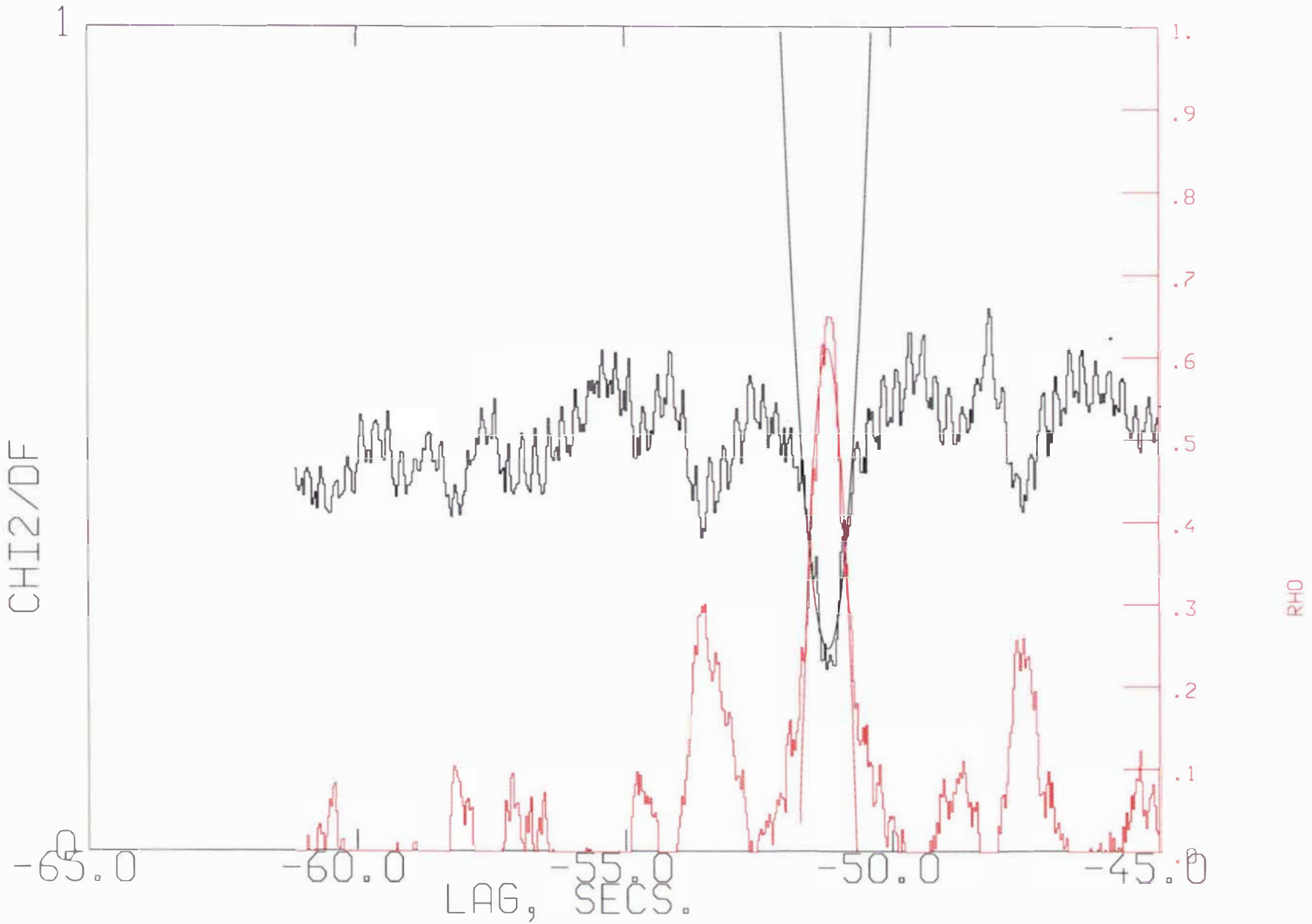
EVENT OF JUN 15, 2006 4:57

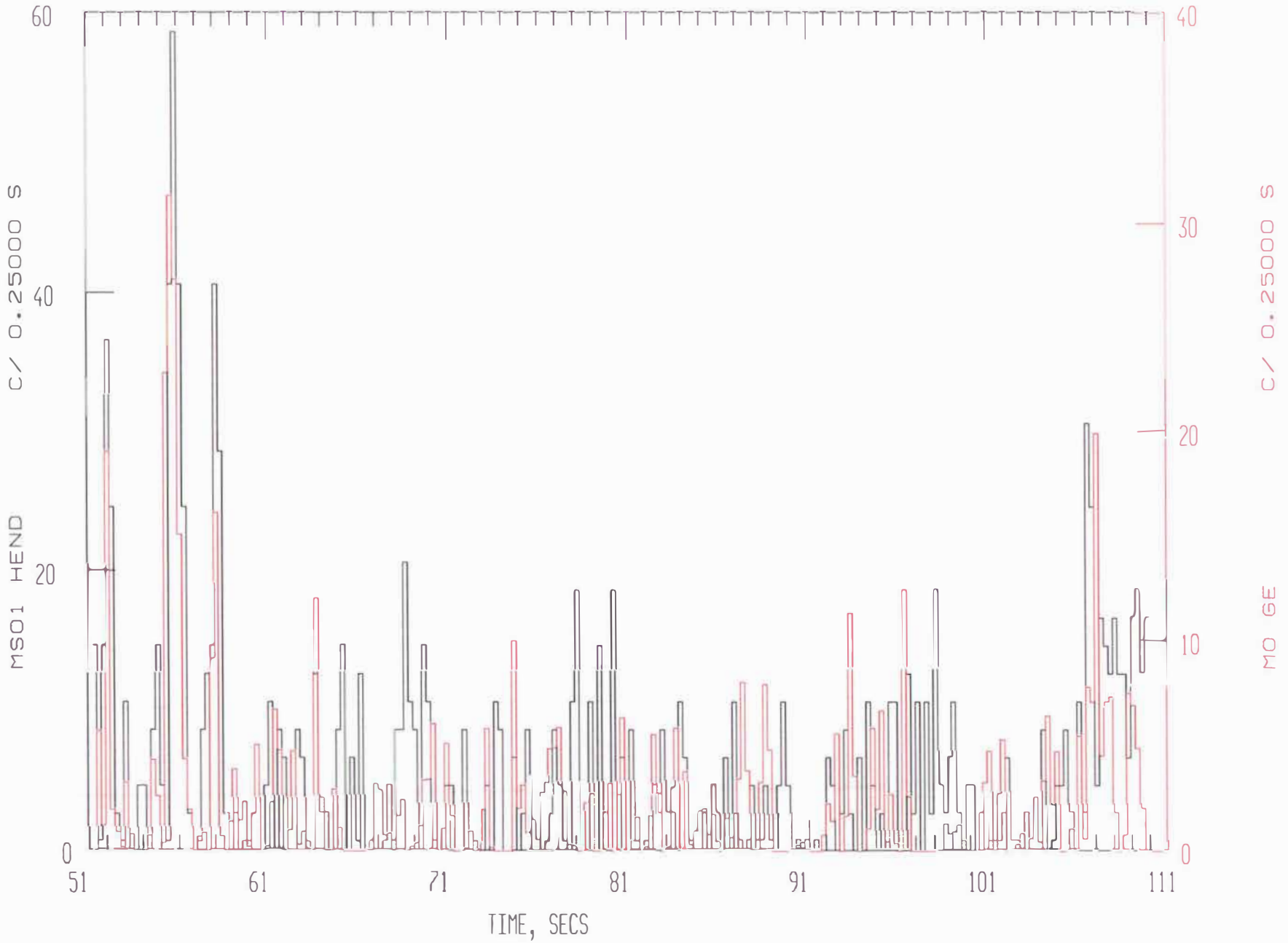
29/06/2010

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

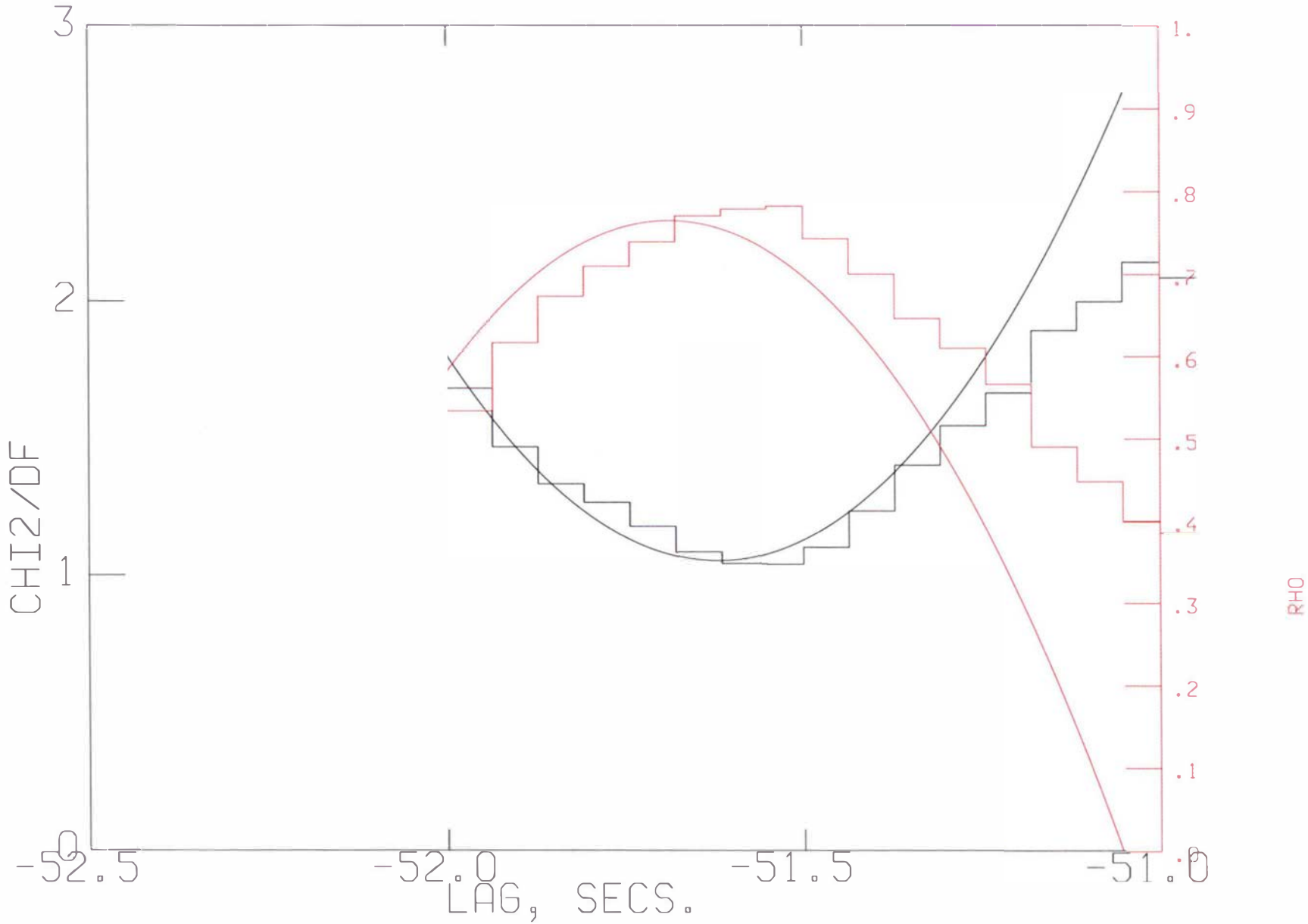


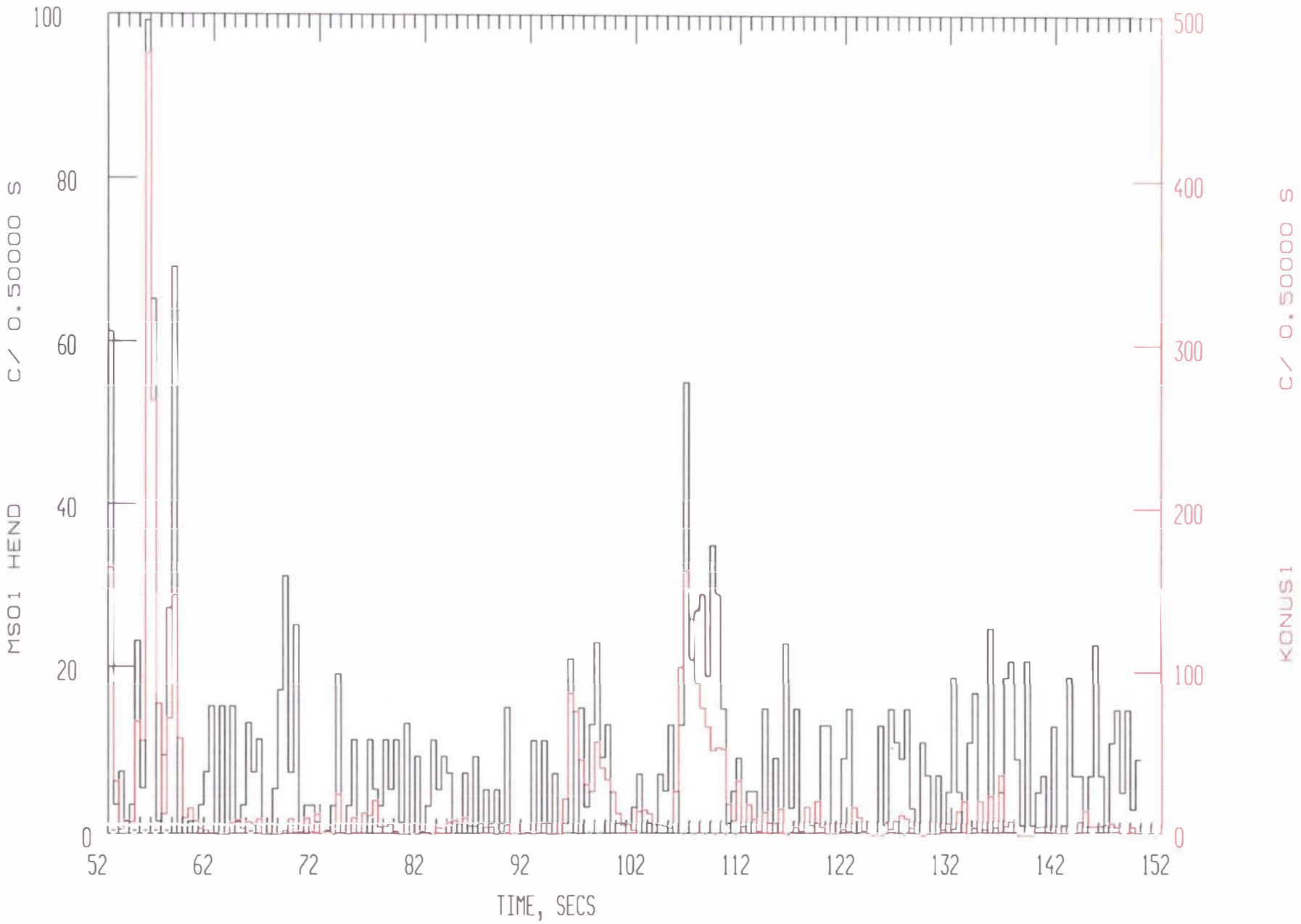
MSO1 HEND -MO GE CORRELATION 15/06/06 18768.557



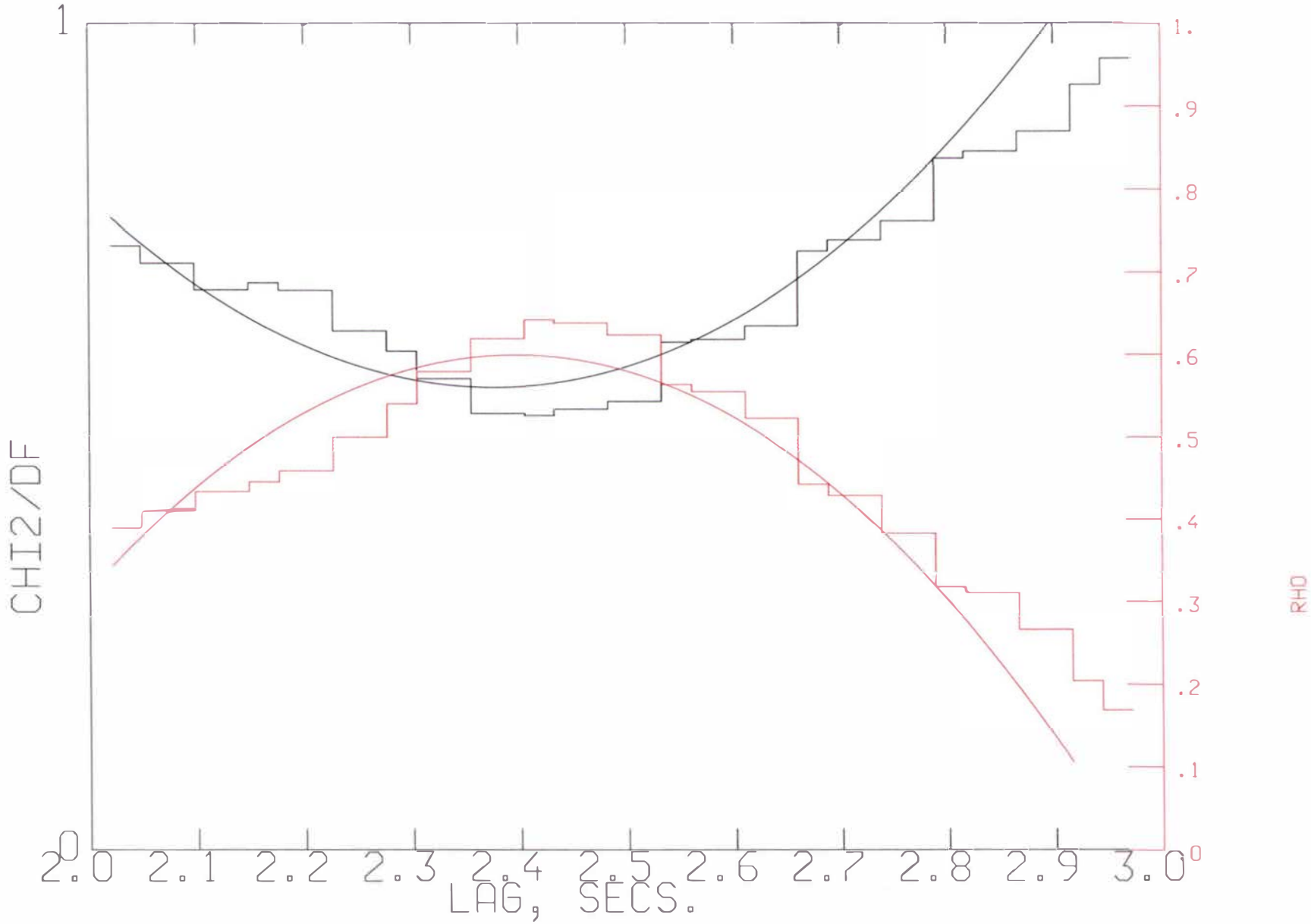

60
40
20
0
C/ 0.25000 S
MS01 HEND
40
30
20
10
0
C/ 0.25000 S
MO GE
51
61
71
81
91
101
111
TIME, SECS

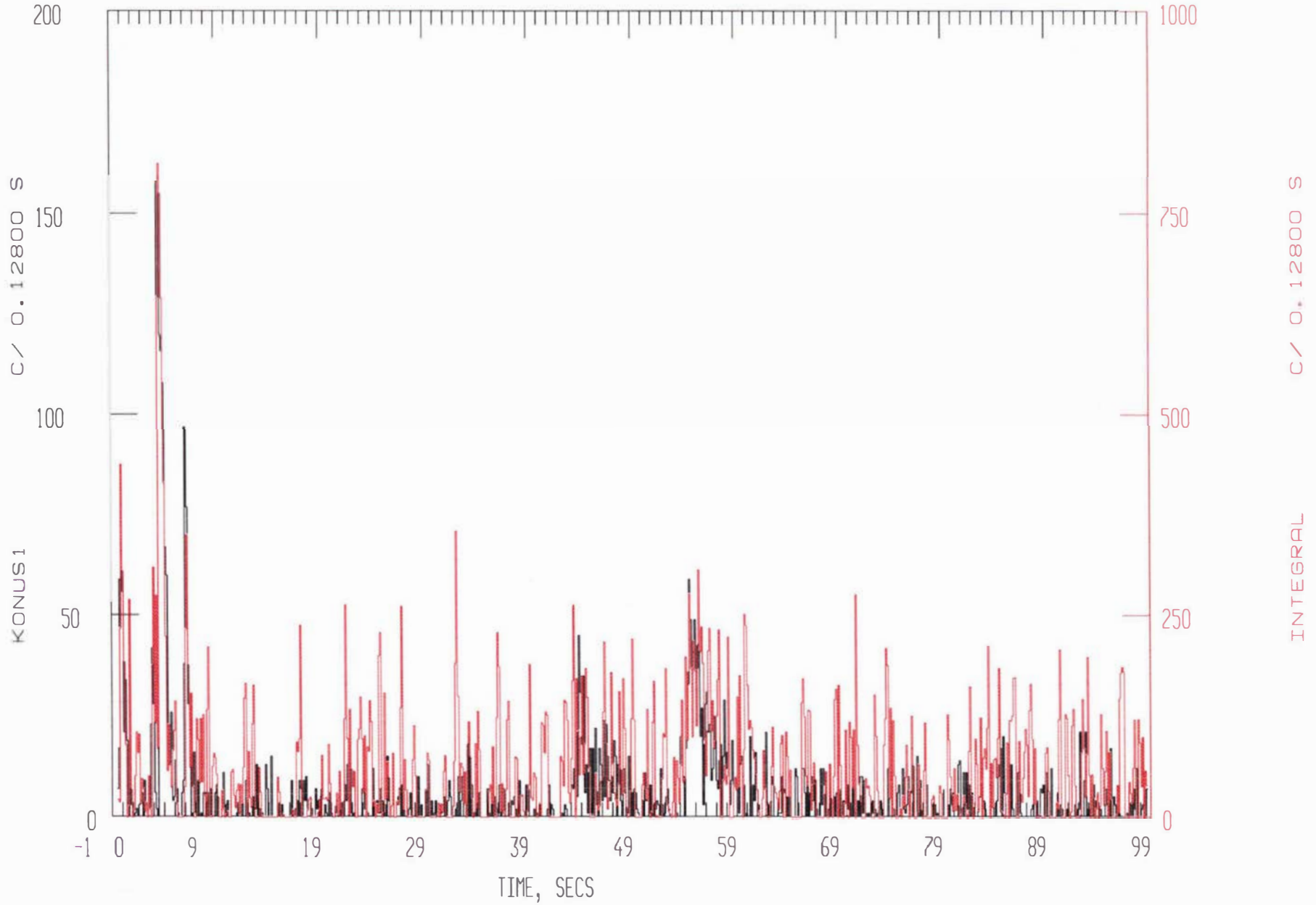
MS01 HEND -KONUS1 CORRELATION 15/06/06 18768.557




100
80
60
40
20
0
C/ 0.50000 S
MS01 HEND
500
400
300
200
100
0
C/ 0.50000 S
KONUS1
52
62
72
82
92
102
112
122
132
142
152
TIME, SECS

KONUS1 -INTEGRAL CORRELATION 15/06/06 17820.879

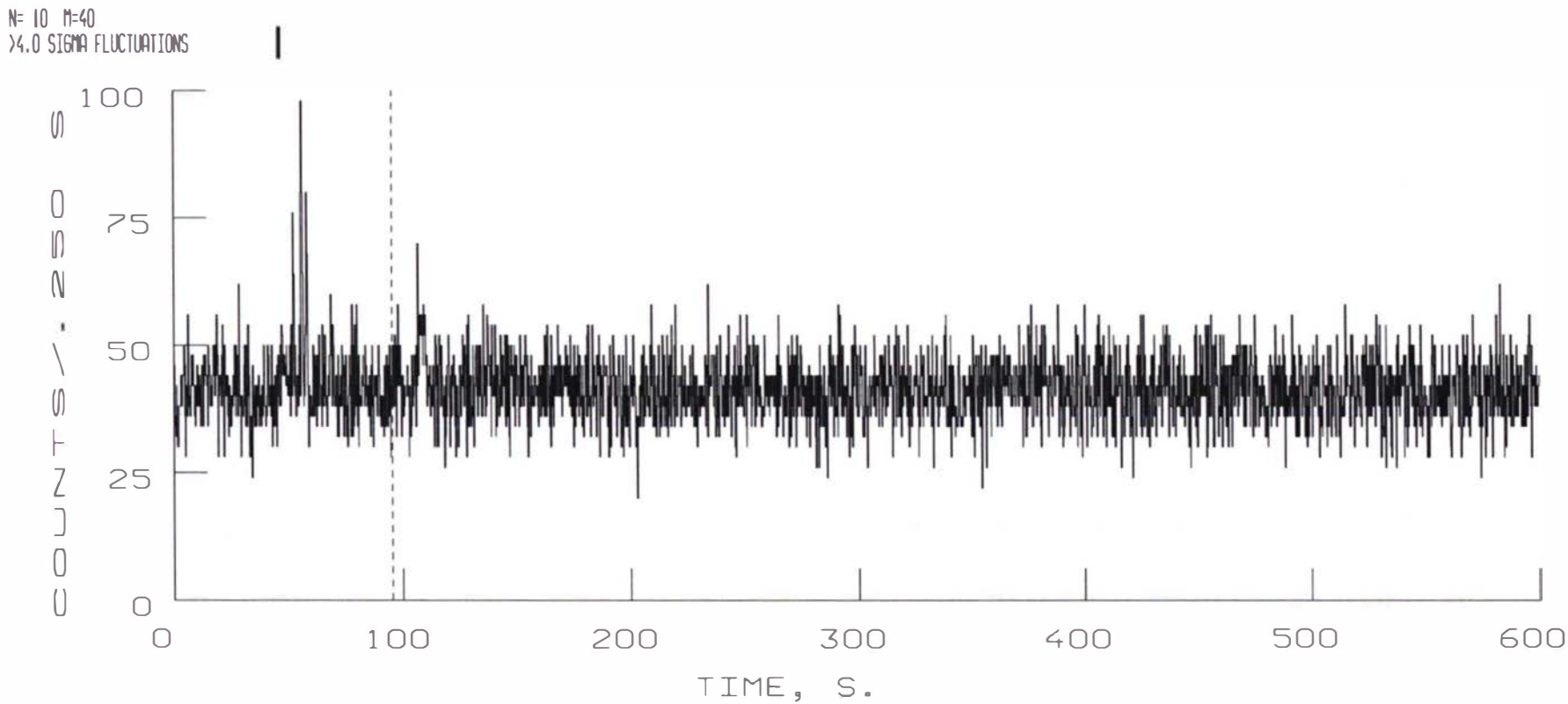


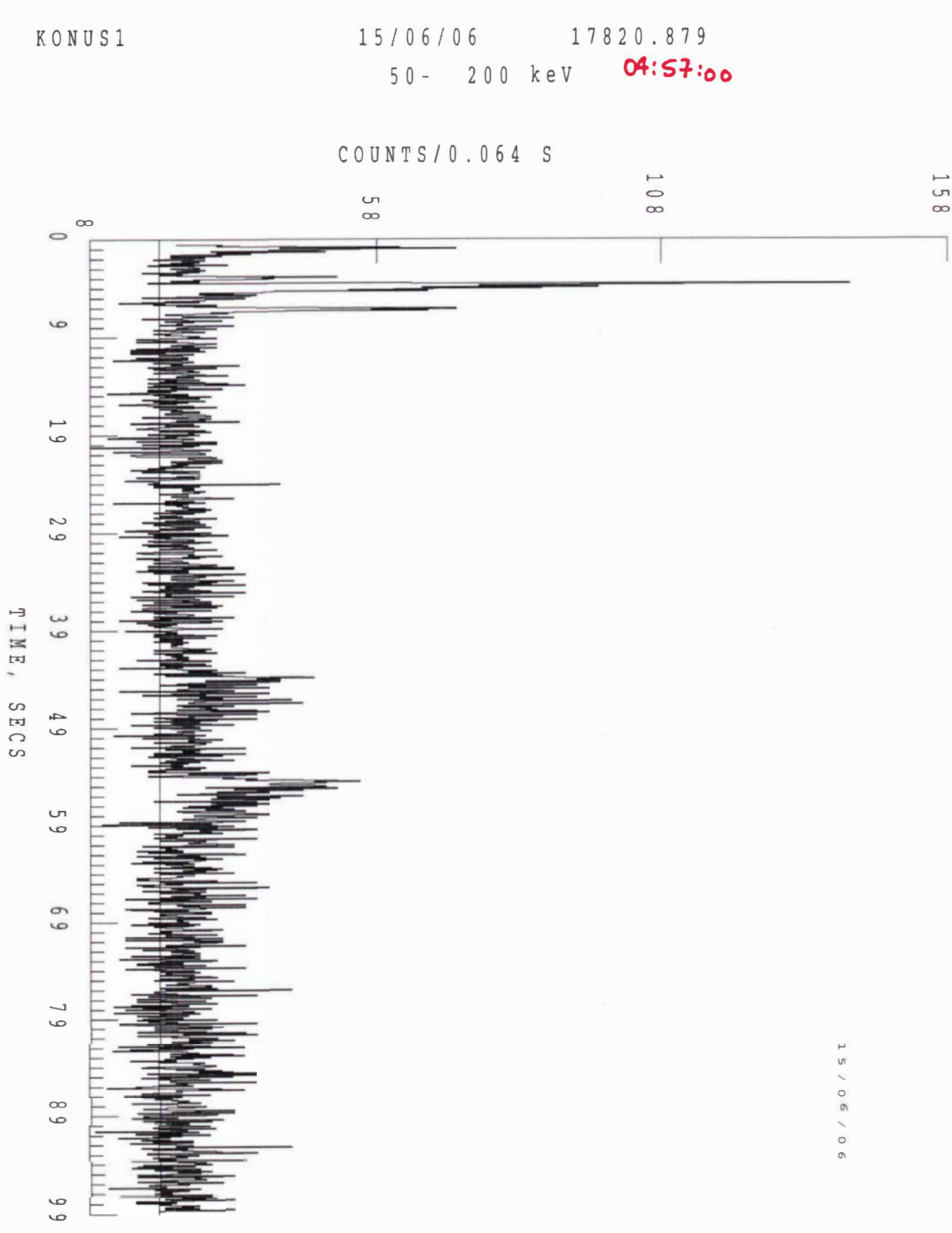

200
150
100
50
0
C/ 0.12800 S
KONUS1
1000
750
500
250
0
C/ 0.12800 S
INTEGRAL
-1
0
9
19
29
39
49
59
69
79
89
99
TIME, SECS

MS01 HEND 29/06/2010

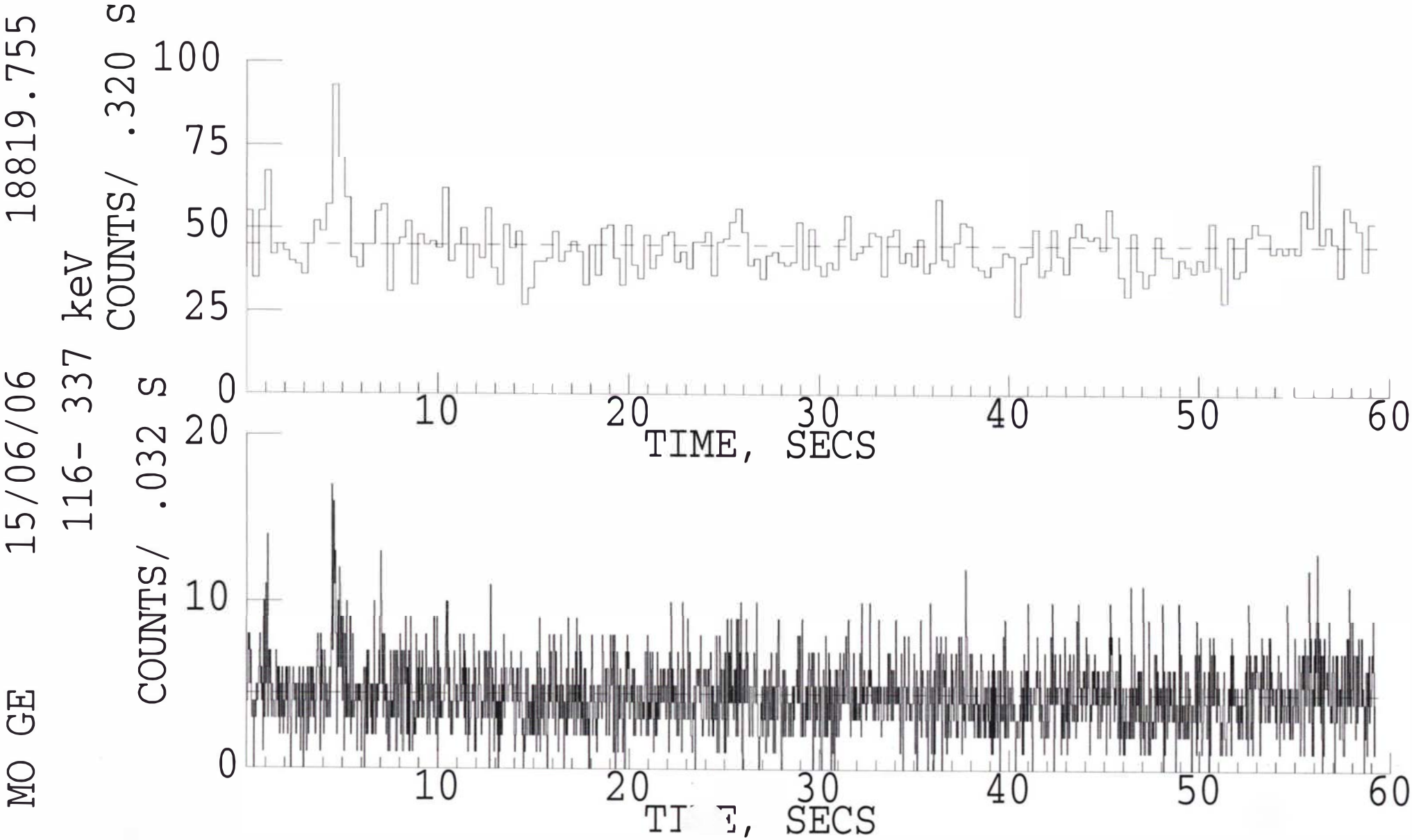
15/06/2006 18768.557 s

50-3000 keV




KONUS1
15/06/06
17820.879
50- 200 keV
04:57:00
COUNTS/0.064 S
8
58
108
158
0
9
19
29
39
49
59
69
79
89
99
TIME, SECS
15/06/06

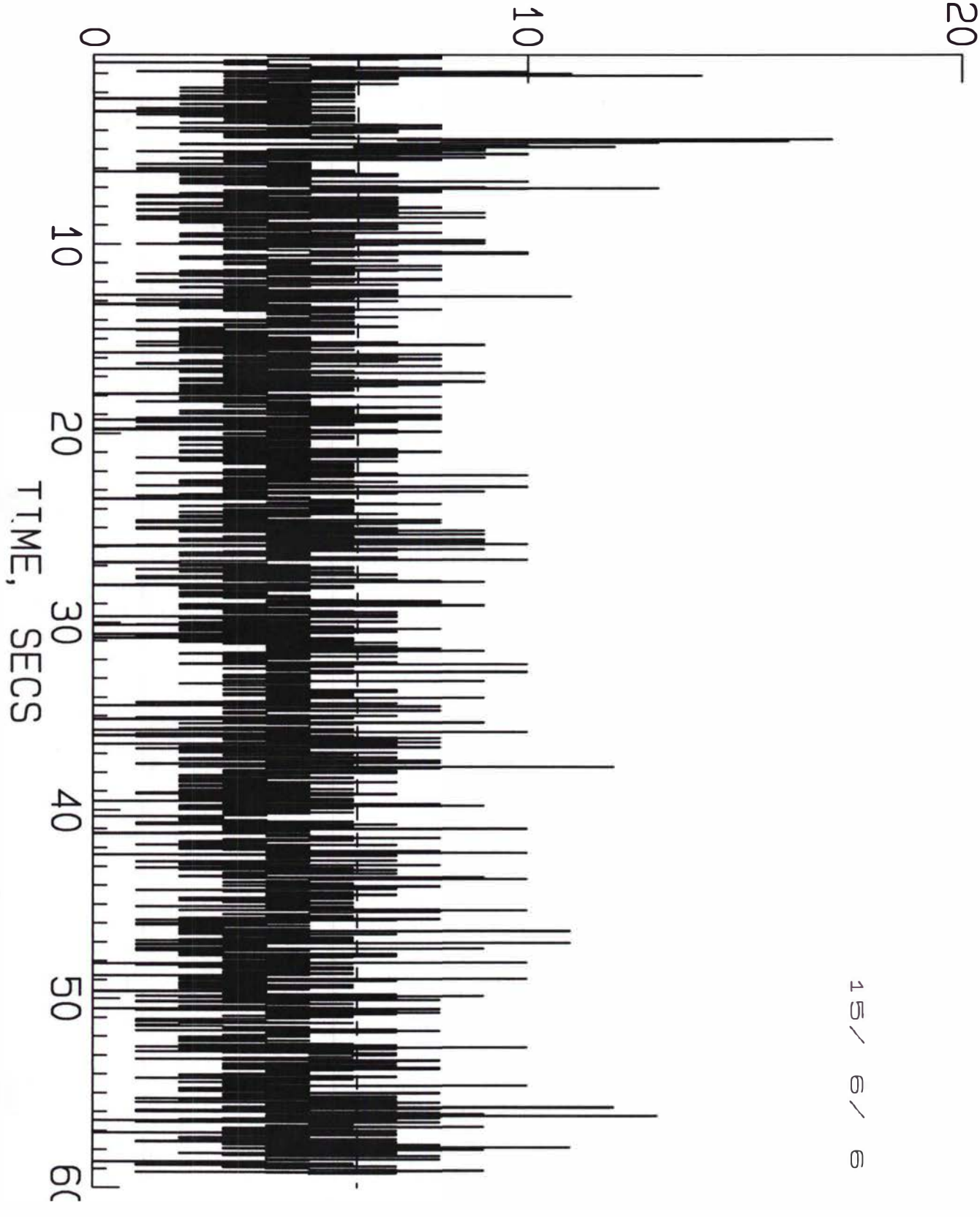
28/06/2010


MO GE 15/06/06 18819.755
116- 337 keV
COUNTS/ .320 S
100
75
50
25
0
10
20
30
40
50
60
TIME, SECS
COUNTS/ .032 S
20
10
0
10
20
30
40
50
60
TIME, SECS

MO GE

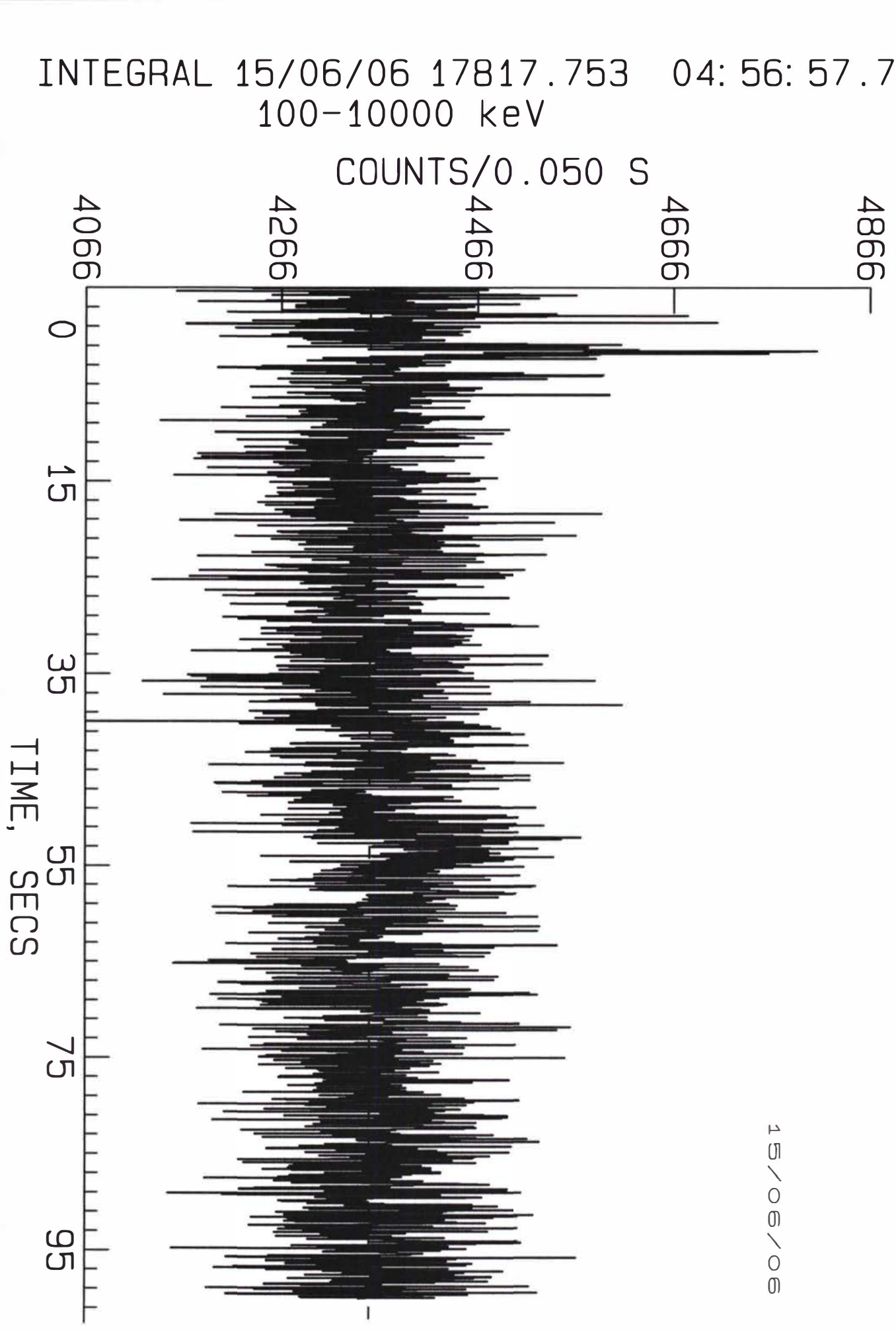
15/06/06 18819.741

116- 337 keV

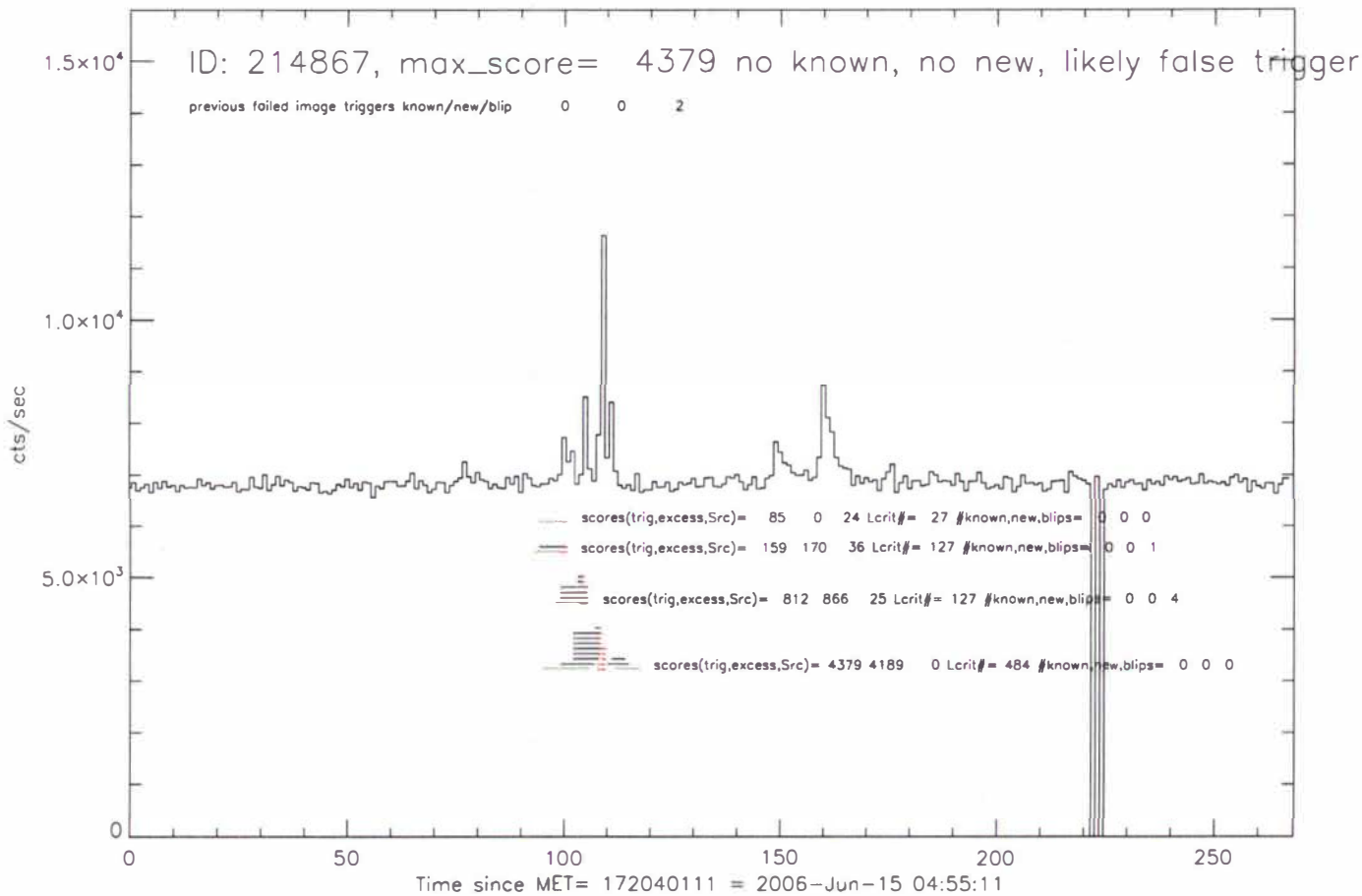


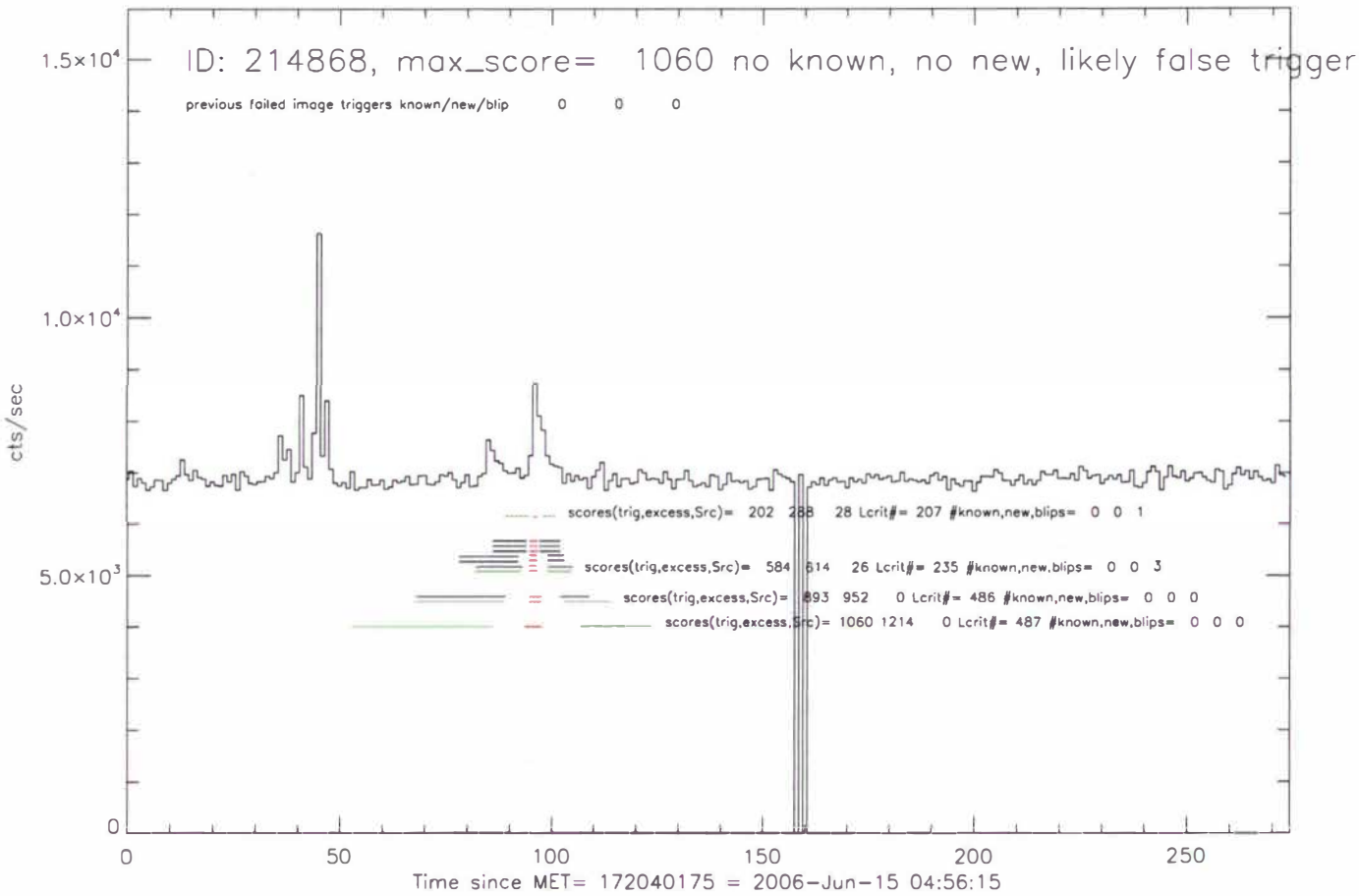
From williams@sunspot.ssl.berkeley.edu Thu Sep 7 12:17:27 2006
X-ASG-Debug-ID: 1157656711-163d001c0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: gammaburst.ssl.berkeley.edu[128.32.98.141]
X-Barracuda-Start-Time: 1157656711
Date: Thu, 7 Sep 2006 12:27:04 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: No_RHESSI_data_for_KONUS_20060615_17818
Subject: No_RHESSI_data_for_KONUS_20060615_17818
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-ASG-Whitelist: Sender (Per-User)

HESSI 50 to 200 keV Counts
Created 7-Sep-2006 12:17:13.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0320000
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry


INTEGRAL 15/06/06 17817.753 04:56:57.7
100-10000 keV
COUNTS/0.050 S
4066
4266
4466
4666
4866
0
15
35
55
75
95
TIME, SECS
15/06/06

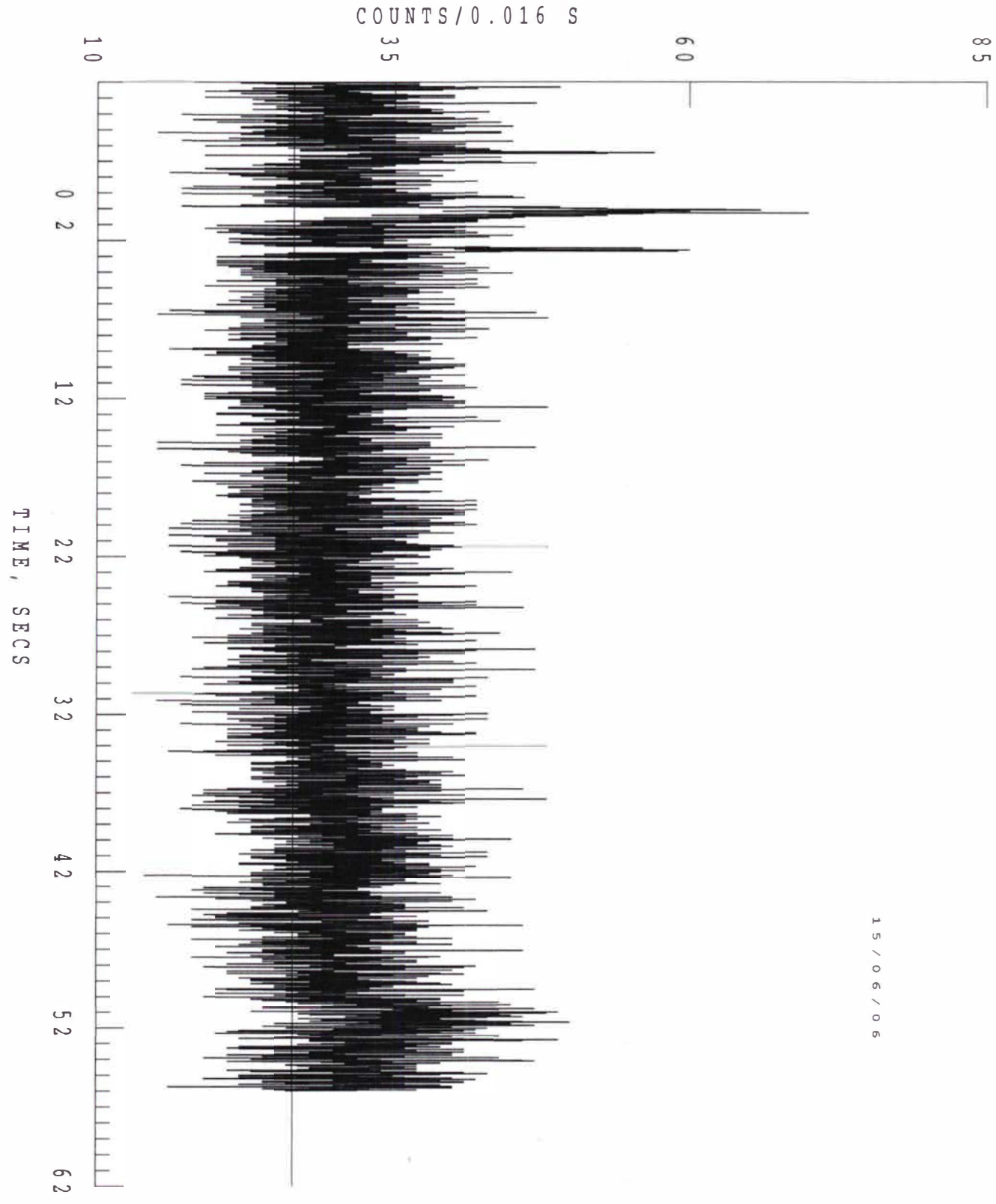
Swift


ID: 214867, max_score= 4379 no known, no new, likely false trigger
previous failed image triggers known/new/blip 0 0 2
scores(trig,excess,Src)= 85 0 24 Lcrit#= 27 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 159 170 36 Lcrit#= 127 #known,new,blips= 0 0 1
scores(trig,excess,Src)= 812 866 25 Lcrit#= 127 #known,new,blips= 0 0 4
scores(trig,excess,Src)= 4379 4189 0 Lcrit#= 484 #known,new,blips= 0 0 0
cts/sec
1.5×10⁴
1.0×10⁴
5.0×10³
0
0
50
100
150
200
250
Time since MET= 172040111 = 2006-Jun-15 04:55:11


ID: 214868, max_score= 1060 no known, no new, likely false trigger
previous failed image triggers known/new/blip 0 0 0
scores(trig,excess,Src)= 202 288 28 Lcrit#= 207 #known,new,blips= 0 0 1
scores(trig,excess,Src)= 584 814 26 Lcrit#= 235 #known,new,blips= 0 0 3
scores(trig,excess,Src)= 893 952 0 Lcrit#= 486 #known,new,blips= 0 0 0
scores(trig,excess,Src)= 1060 1214 0 Lcrit#= 487 #known,new,blips= 0 0 0
cts/sec
1.5×10⁴
1.0×10⁴
5.0×10³
0
0
50
100
150
200
250
Time since MET= 172040175 = 2006-Jun-15 04:56:15

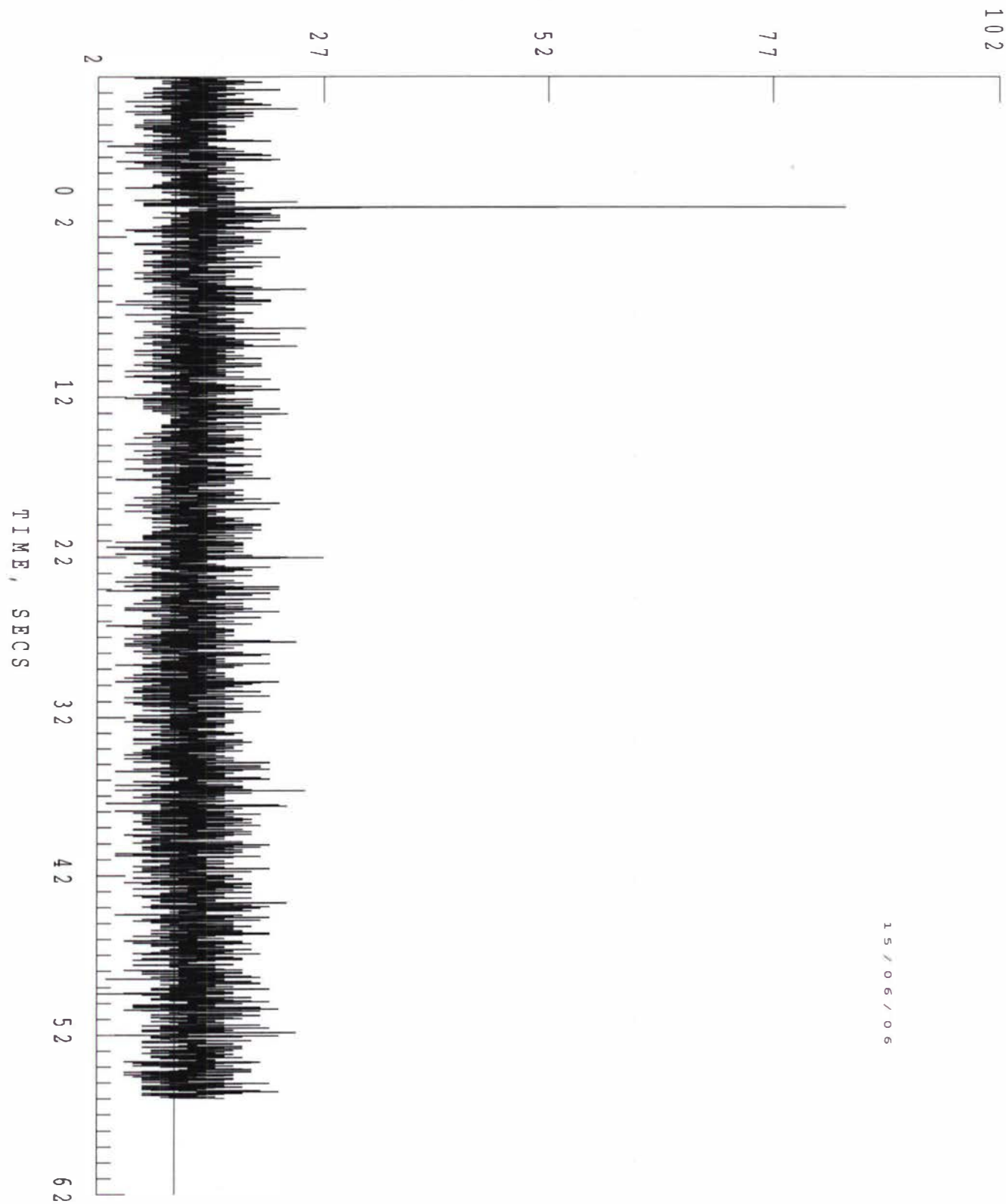
SUZAKU 15/06/06 17818.986

50- 240 keV



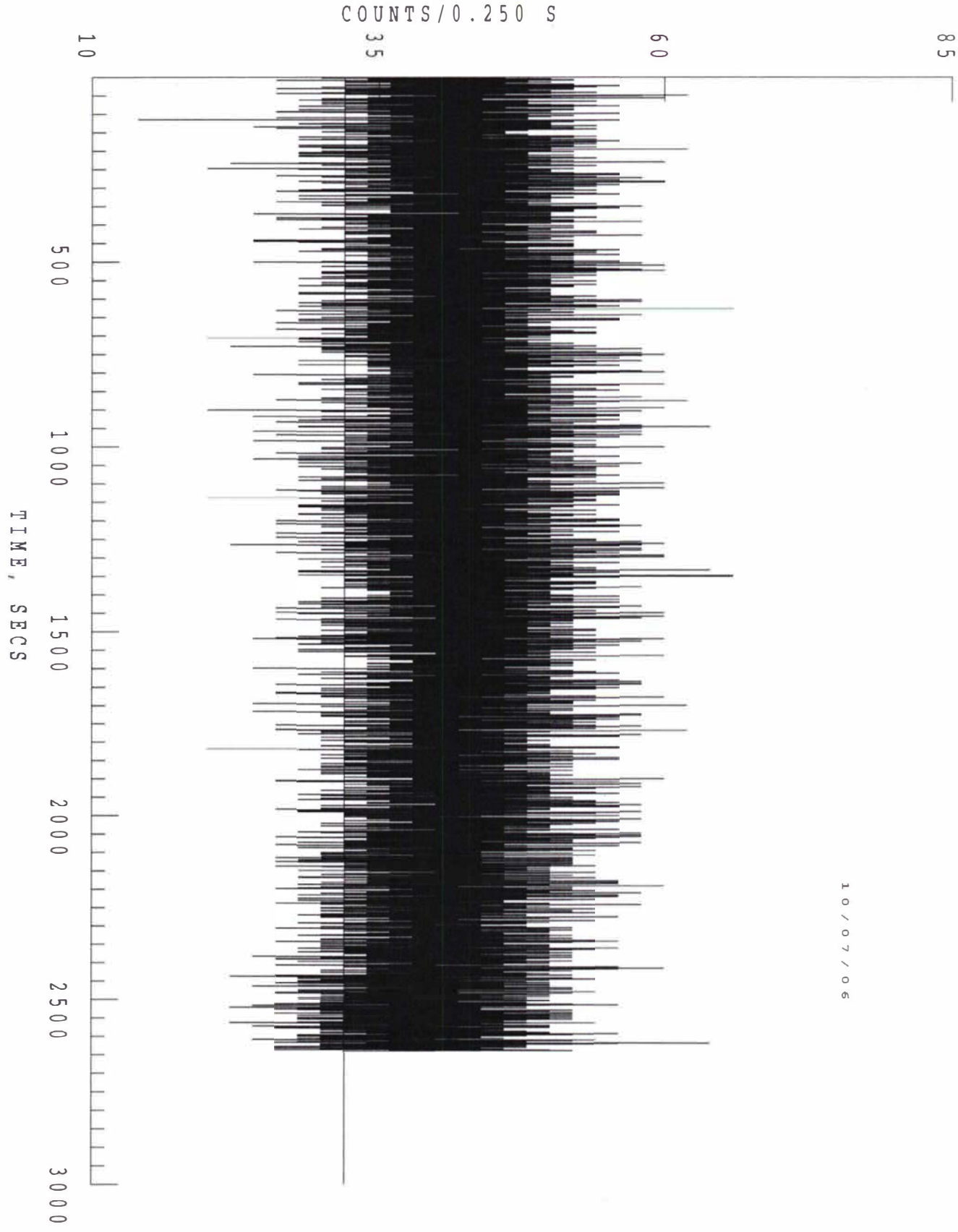
SUZAKU 15/06/06 66183.980

50- 240 keV 18:23:03



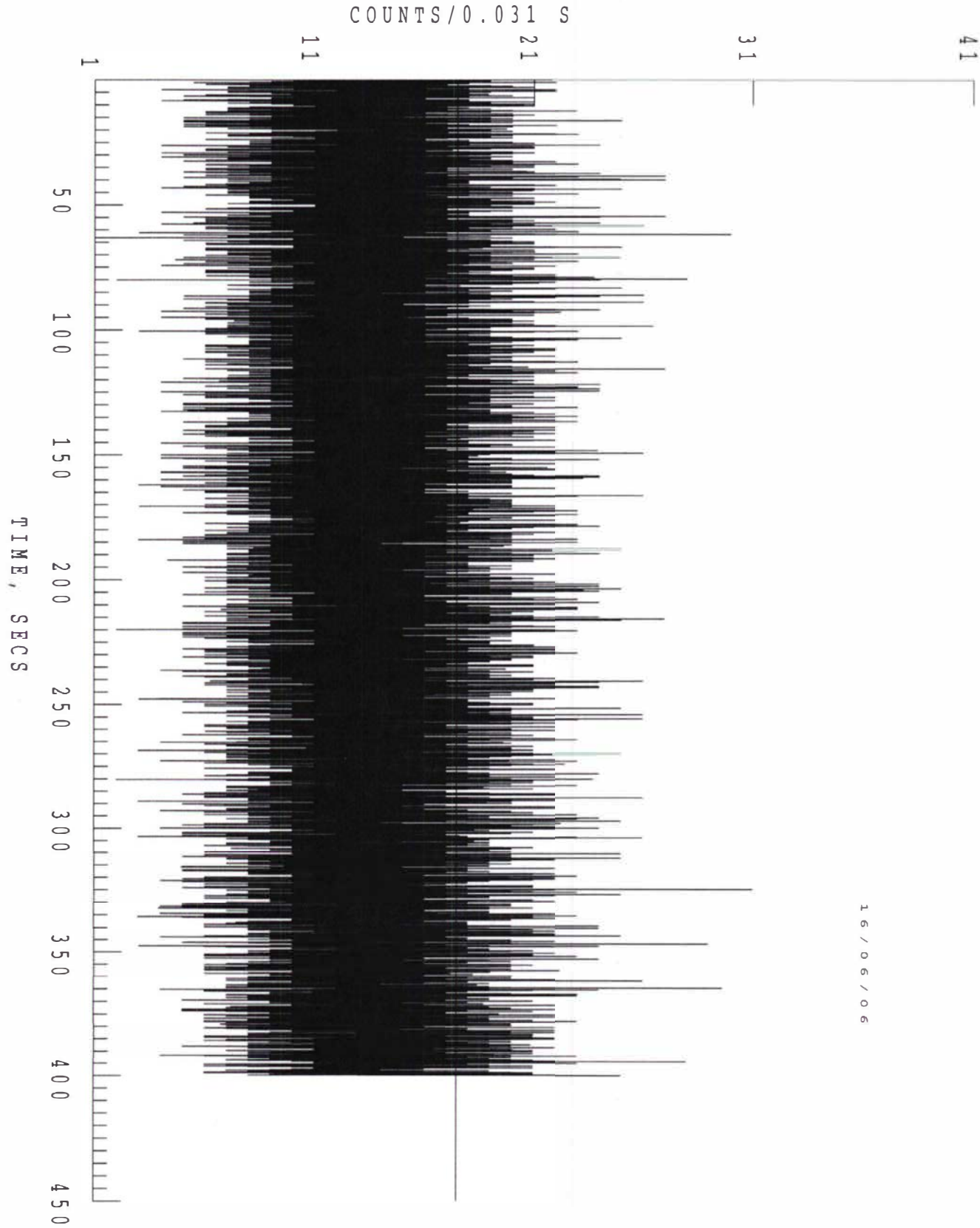
MS01 15/06/06 64847.723

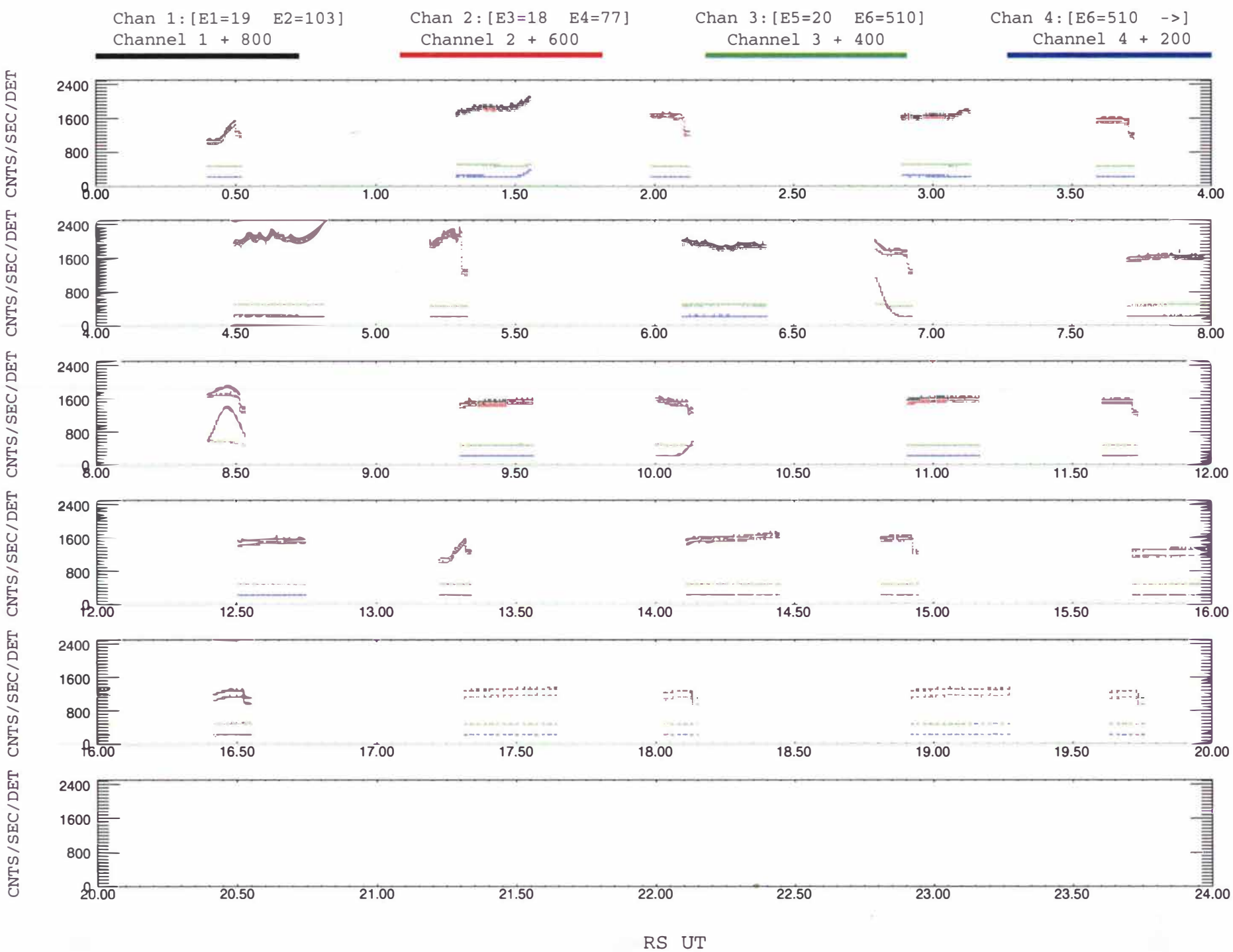
50- 3000 keV

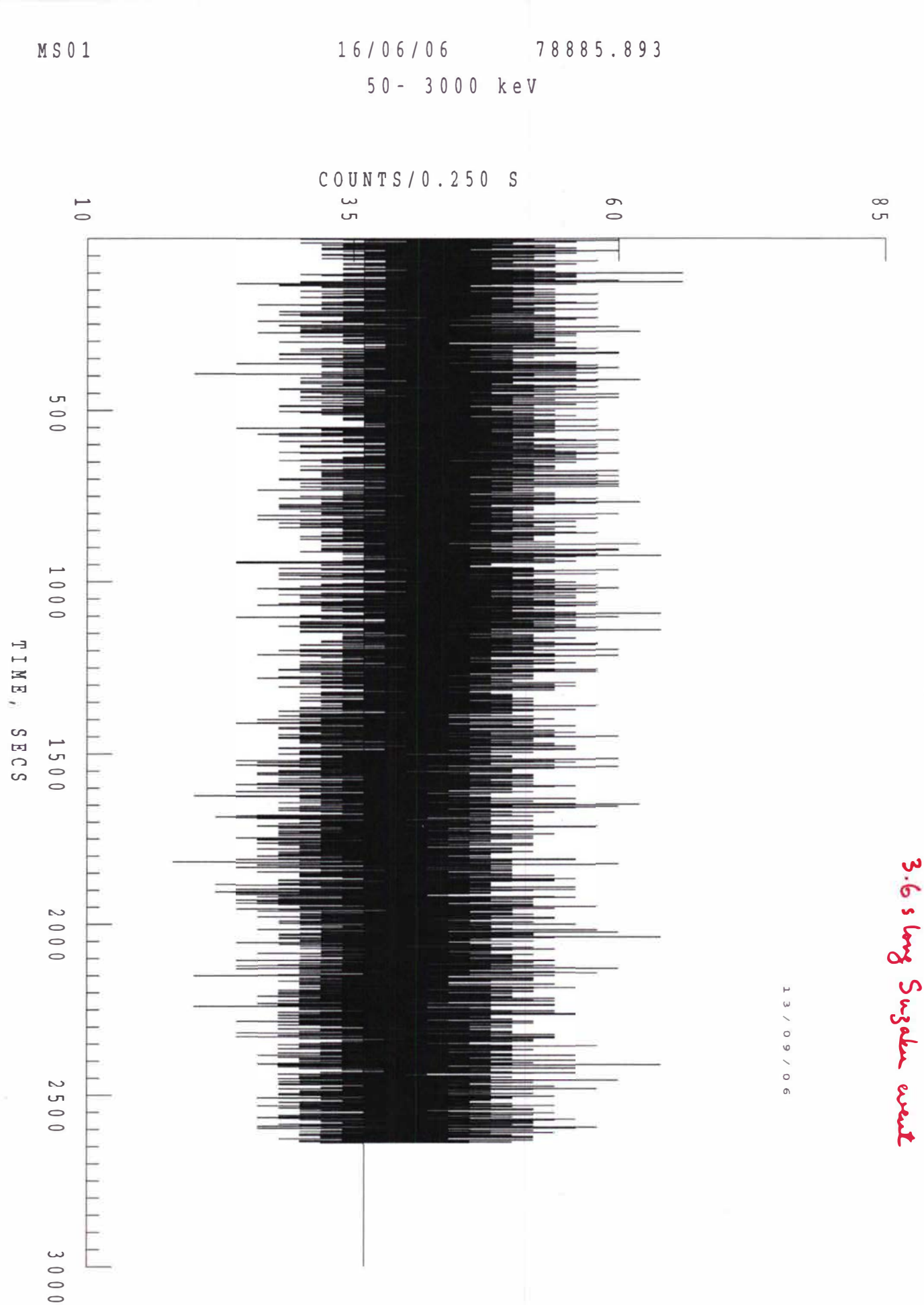


HESSI 15/06/06 65983.000 (SUZAKU_20060615_66183)

25- 150 keV



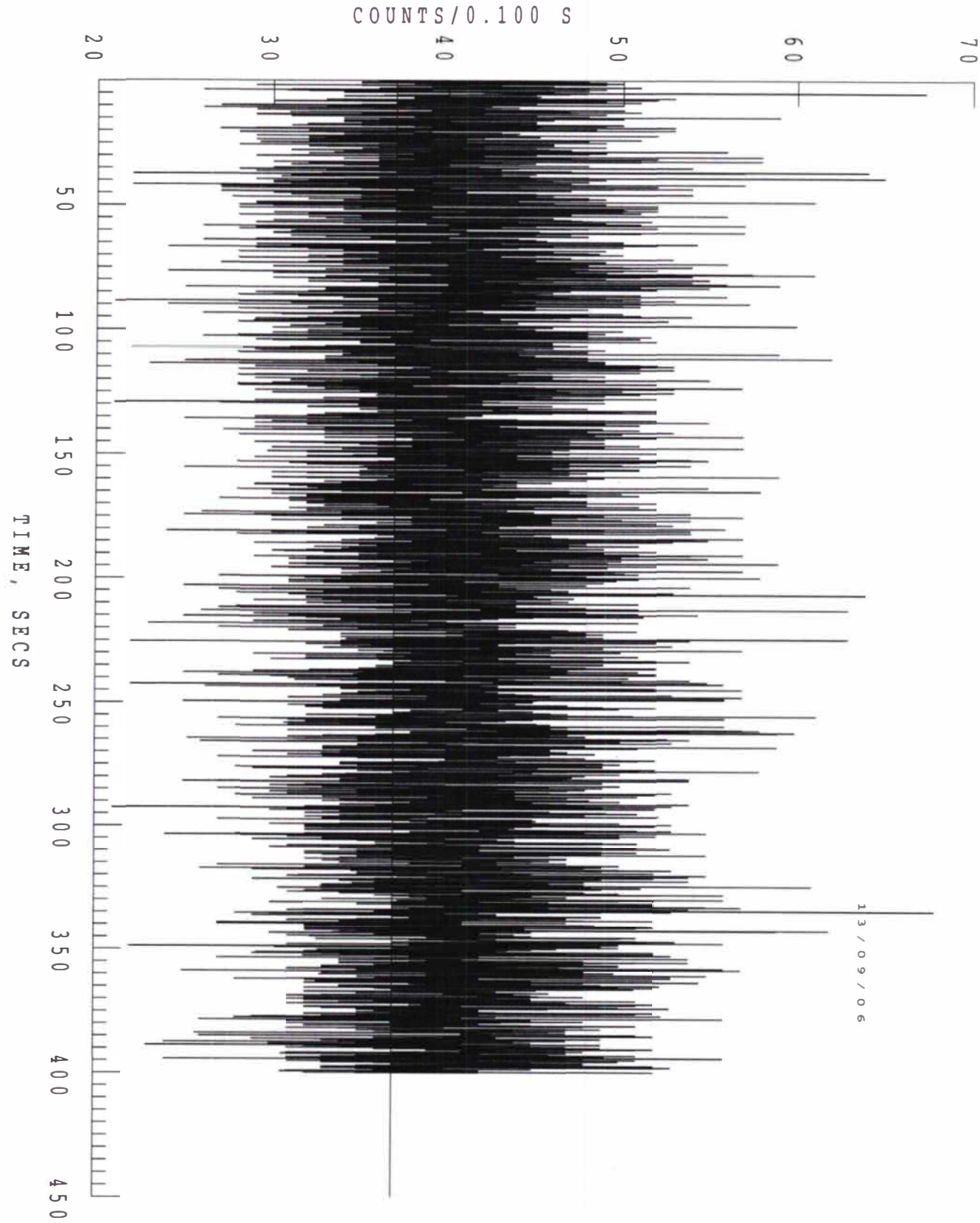

FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED
15/06/06 DOY 166 Julian 2453902.50000 [est. sct = 0019 d3de f9f7 51ef]
Chan 1:[E1=19 E2=103]
Channel 1 + 800
Chan 2:[E3=18 E4=77]
Channel 2 + 600
Chan 3:[E5=20 E6=510]
Channel 3 + 400
Chan 4:[E6=510 ->]
Channel 4 + 200
CNTS/SEC/DET
2400
1600
800
0
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.00
8.50
9.00
9.50
10.00
10.50
11.00
11.50
12.00
12.00
12.50
13.00
13.50
14.00
14.50
15.00
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16.00
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18.00
18.50
19.00
19.50
20.00
20.00
20.50
21.00
21.50
22.00
22.50
23.00
23.50
24.00
RS UT



3.6 s long Sugaku event

HESSI 16/06/06 80057.000 (SUZAKU_20060616_80257)

25- 150 keV



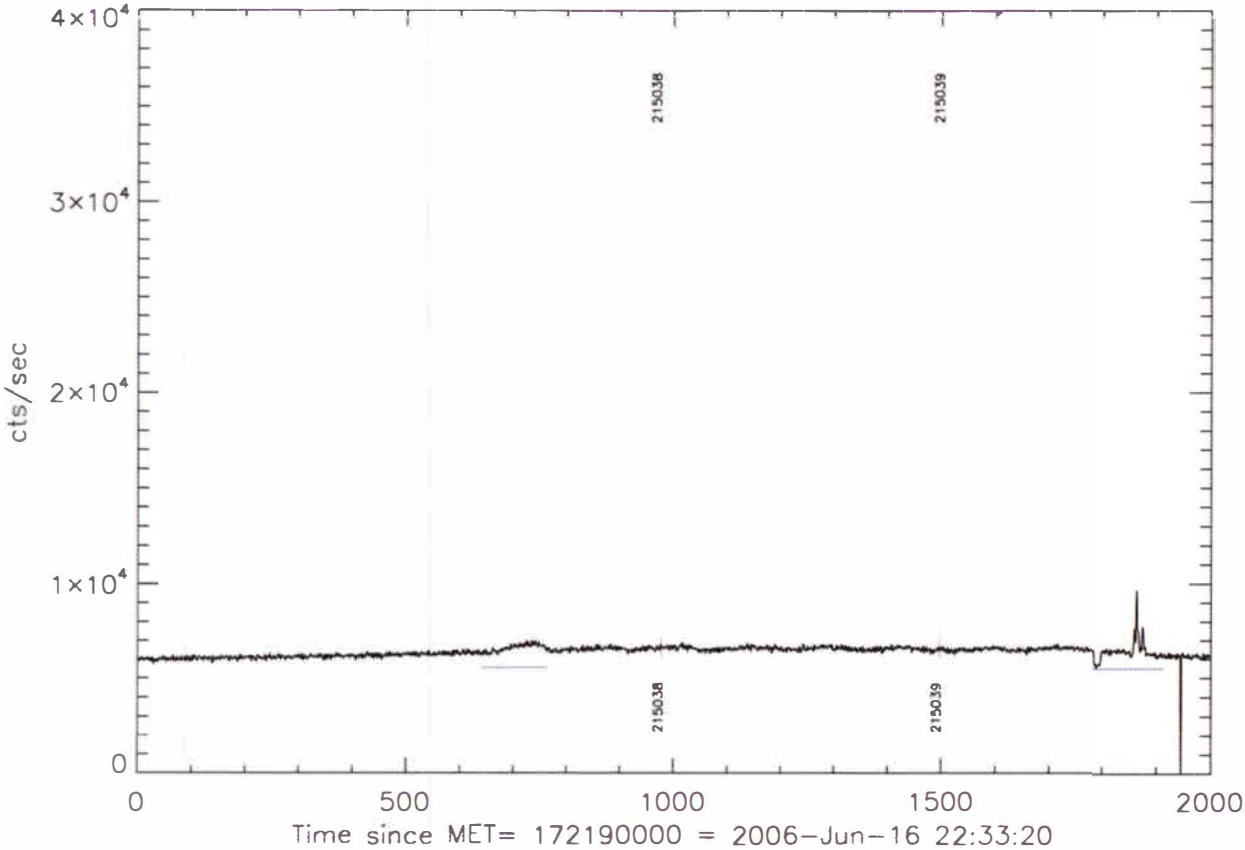
From palmer@lanl.gov Mon Jun 19 10:00:52 2006
X-ASG-Debug-ID: 1150736447-02b100670000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: mailwasher.lanl.gov[192.65.95.54]
X-Barracuda-Start-Time: 1150736447
Mime-Version: 1.0
Date: Mon, 19 Jun 2006 11:02:04 -0600
To: craigm@milkyway.gsfc.nasa.gov, derek@milkyway.gsfc.nasa.gov,
dmpalmer@mac.com, efenimore@lanl.gov, gehrels@gsfc.nasa.gov,
jayc@milkyway.gsfc.nasa.gov, koss@milkyway.gsfc.nasa.gov,
krimm@milkyway.gsfc.nasa.gov, lmb@milkyway.gsfc.nasa.gov,
"Kassandra M. Mclean" <kmclean@lanl.gov>,
michael@milkyway.gsfc.nasa.gov, palmer@lanl.gov,
parsons@milkyway.gsfc.nasa.gov, scott@milkyway.gsfc.nasa.gov,
tueller@milkyway.gsfc.nasa.gov, divas@milkyway.gsfc.nasa.gov
From: David Palmer <palmer@lanl.gov>
X-ASG-Orig-Subj: Daily report 20060619
Subject: Daily report 20060619
Cc: Kevin Hurley <khurley@ssl.berkeley.edu>,
news-hxd-ipn@amalthea.phys.s.u-tokyo.ac.jp,
ohno@hirax7.hepl.hiroshima-u.ac.jp, yamaoka@phys.aoyama.ac.jp,
val@mail.ioffe.ru
X-PMX-Version: 4.7.1.128075
X-Barracuda-Bayes: INNOCENT GLOBAL 0.0000 1.0000 -2.0210
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-Barracuda-Spam-Report: Code version 3.02, rules version 3.0.15099
Rule breakdown below pts rule name description
---- ---------------------- --
1.12 SUBJ_HAS_UNIQ_ID Subject contains a unique ID

~5 second long GRB (not triggered due to it being during a slew)
peaking around 172191864 -> 2006-06-16 23:04:24 at 3kcounts/s.

No obvious GRBs missed during the time the Goodrich Star Tracker was
out of lock. (2006-06-18 ~05:00-18T10:50).

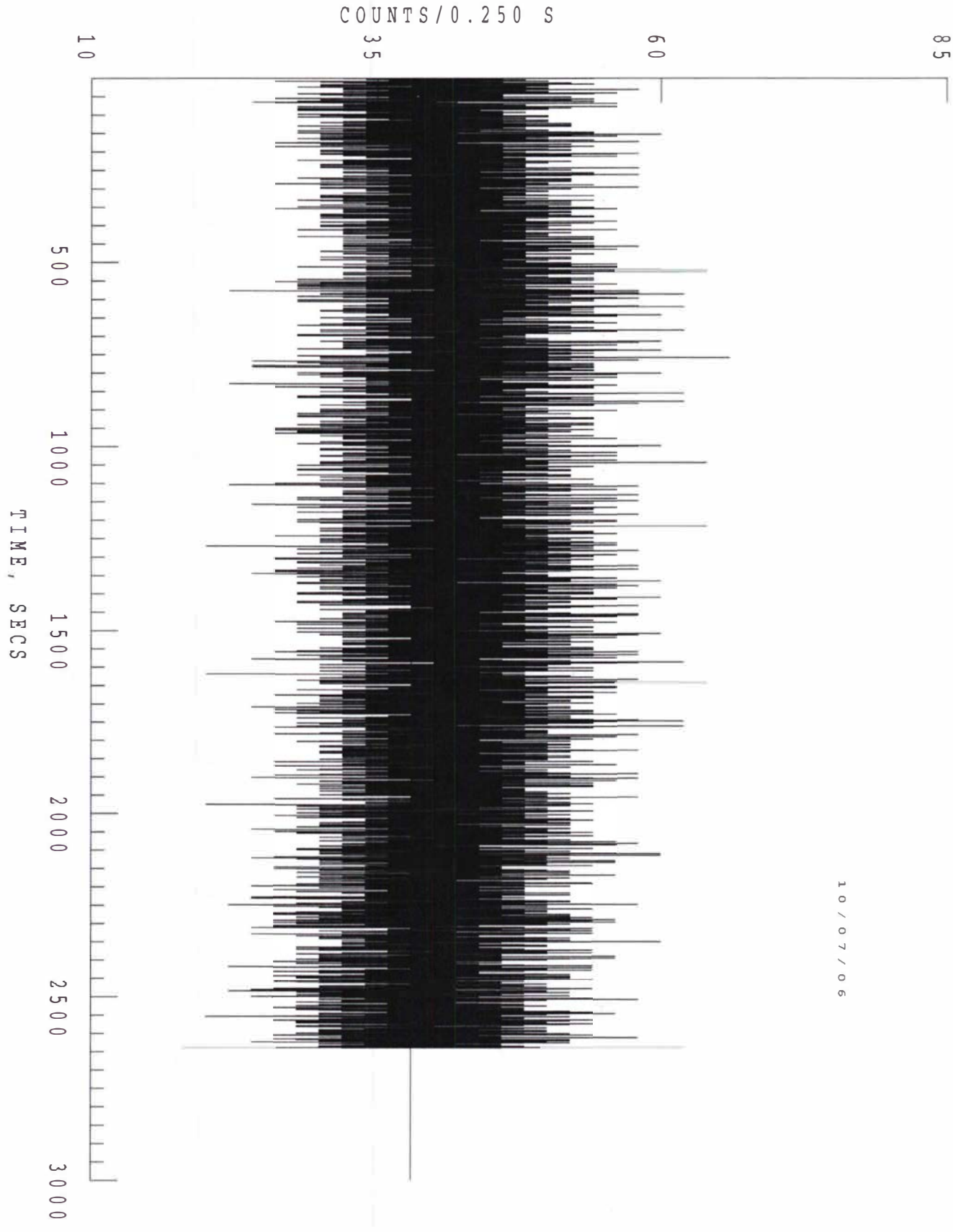
The 5.0+ blip that was GCNd for AXJ1700.2-4220 hasn't shown up again.
HOwever, Hans' daily plot
http://swift.gsfc.nasa.gov/docs/swift/results/transients/weak/AXJ1700.2-4220/
seems to show it elevating marginally above the baseline over the
past few weeks, so it may be real.
Atel #783 (Masetti et al), says of this source:
> In one case (AX J1700.2-4220) we chose a known emission-line star
> in the INTEGRAL error box as the putative counterpart; for the caveats
> regarding this choice, we refer the reader to Masetti et al. (2006, A&A,
> in press [astro-ph/0512399]).
> Exposure times ranged from 40 to 60 minutes, depending on the object
> brightness.
...
> AX J1700.2-4220: our spectrum of star HD153295 within the INTEGRAL
> error box confirms its emission-line nature (e.g. Merrill & Burwell
> 1943, ApJ, 98, 153). The optical spectrum of this star points to a HMXB
> nature. However, as no arcsec-sized X-ray position is available, we
> consider the association as tentative.

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

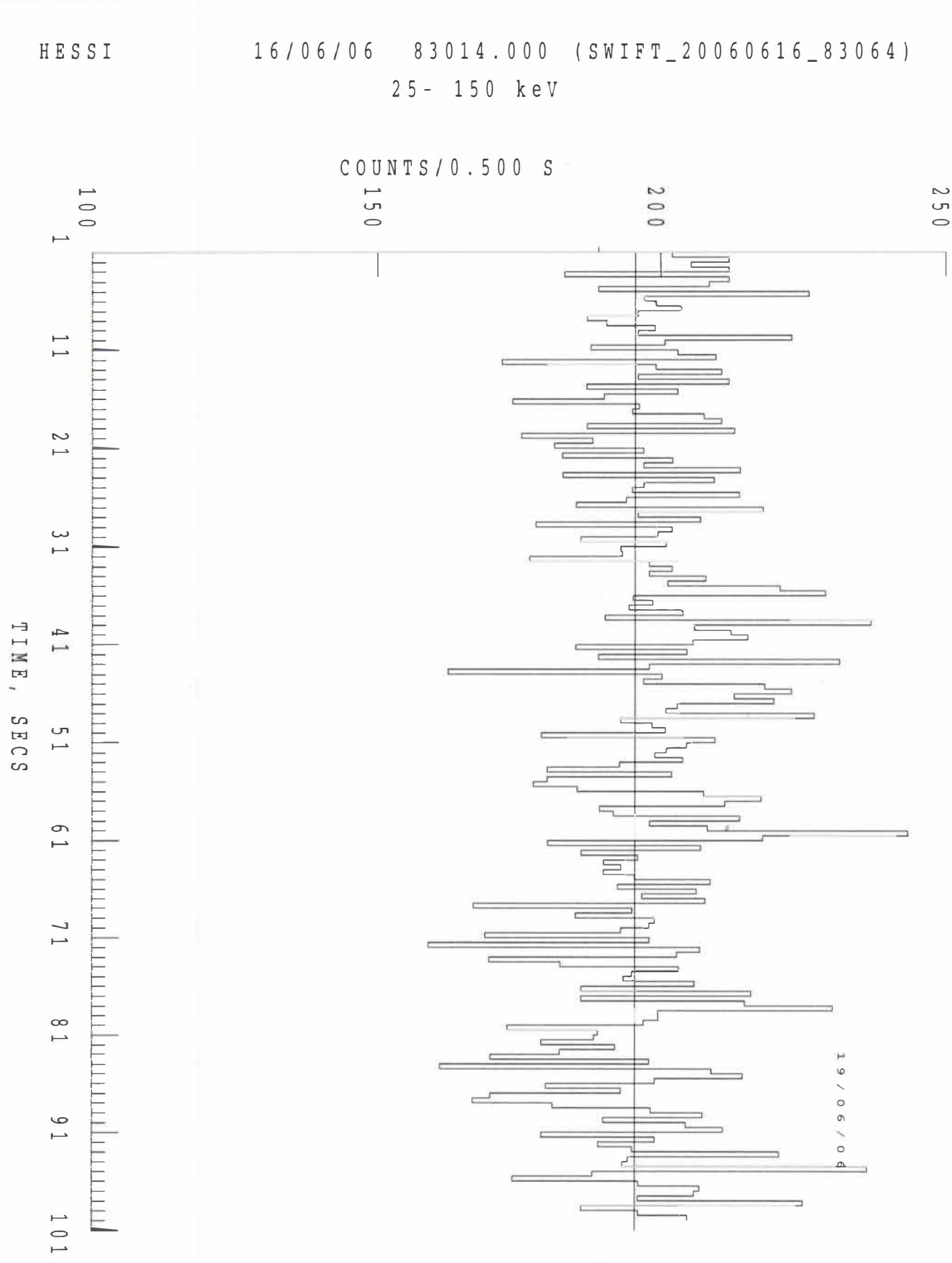

4×10^4
3×10^4
2×10^4
1×10^4
0
cts/sec
215038
215039
215038
215039
0
500
1000
1500
2000
Time since MET= 172190000 = 2006-Jun-16 22:33:20

MS01 16/06/06 81705.844

50- 3000 keV



10/07/06


HESSI 16/06/06 83014.000 (SWIFT_20060616_83064)
25- 150 keV
COUNTS/0.500 S
100
150
200
250
1
11
21
31
41
51
61
71
81
91
101
TIME, SECS
19/06/04

From ohno@milkyway.gsfc.nasa.gov Wed Jun 21 08:35:51 2006
X-ASG-Debug-ID: 1150904160-3a2b003e0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: milkyway.gsfc.nasa.gov[128.183.16.143]
X-Barracuda-Start-Time: 1150904160
X-ASG-Whitelist: Sender
Date: Thu, 22 Jun 2006 00:33:52 +0900
From: Masanori Ohno <ohno@milkyway.gsfc.nasa.gov>
To: David Palmer <palmer@lanl.gov>
Cc: craigm@milkyway.gsfc.nasa.gov, derek@milkyway.gsfc.nasa.gov,
dmpalmer@mac.com, efenimore@lanl.gov, gehrels@gsfc.nasa.gov,
jayc@milkyway.gsfc.nasa.gov, koss@milkyway.gsfc.nasa.gov,
krimm@milkyway.gsfc.nasa.gov, lmb@milkyway.gsfc.nasa.gov,
kmclean@lanl.gov, parsons@milkyway.gsfc.nasa.gov,
scott@milkyway.gsfc.nasa.gov, tueller@milkyway.gsfc.nasa.gov,
michael@milkyway.gsfc.nasa.gov, khurley@ssl.berkeley.edu,
news-hxd-ipn@amalthea.phys.s.u-tokyo.ac.jp,
ohno@hirax7.hepl.hiroshima-u.ac.jp, val@mail.ioffe.ru,
yamaoka@phys.aoyama.ac.jp, sugita@phys.aoyama.ac.jp
X-ASG-Orig-Subj: Re: Daily report 20060619
Subject: Re: Daily report 20060619
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

On Mon, 19 Jun 2006 11:02:04 -0600
David Palmer <palmer@lanl.gov> wrote:
Dear David,

orry for late response.

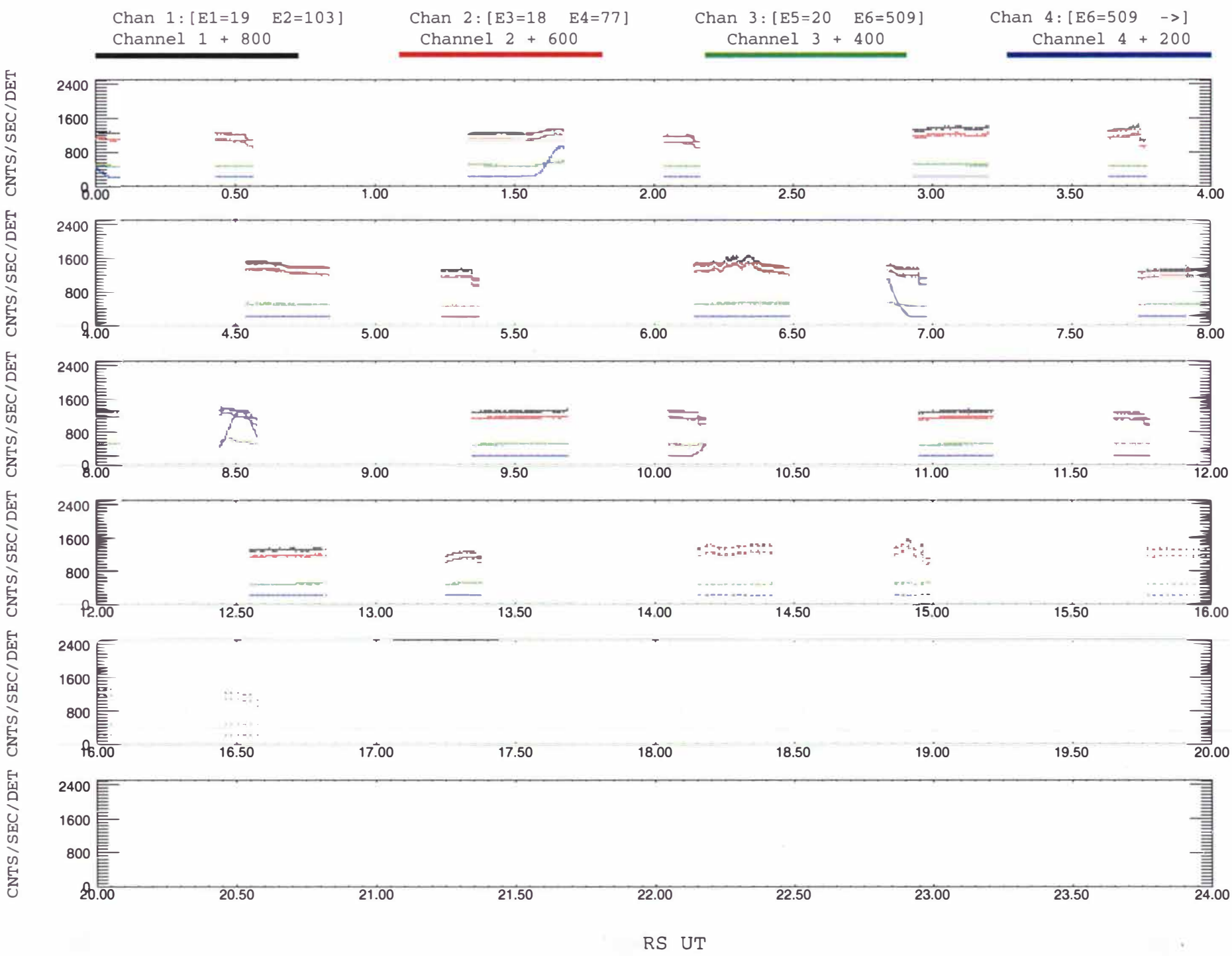
> 15 second long GRB (not triggered due to it being during a slew)
> peaking around 172191864 -> 2006-06-16 23:04:24 at 3kcounts/s.

This event was not detected by the WAM.
It may be due to the earth occultation.

Best regards,

Satoshi, Masa
on behalf of the WAM team

Mon, 19 Jun 2006 11:02:04 -0600


FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED
16/06/06 DOY 167 Julian 2453903.50000 [est. sct = 0019 d3f3 17cf ce83]
Chan 1:[E1=19 E2=103]
Channel 1 + 800
Chan 2:[E3=18 E4=77]
Channel 2 + 600
Chan 3:[E5=20 E6=509]
Channel 3 + 400
Chan 4:[E6=509 ->]
Channel 4 + 200
CNTS/SEC/DET
2400
1600
800
0
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.00
8.50
9.00
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10.00
10.50
11.00
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18.00
18.50
19.00
19.50
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20.50
21.00
21.50
22.00
22.50
23.00
23.50
24.00
RS UT

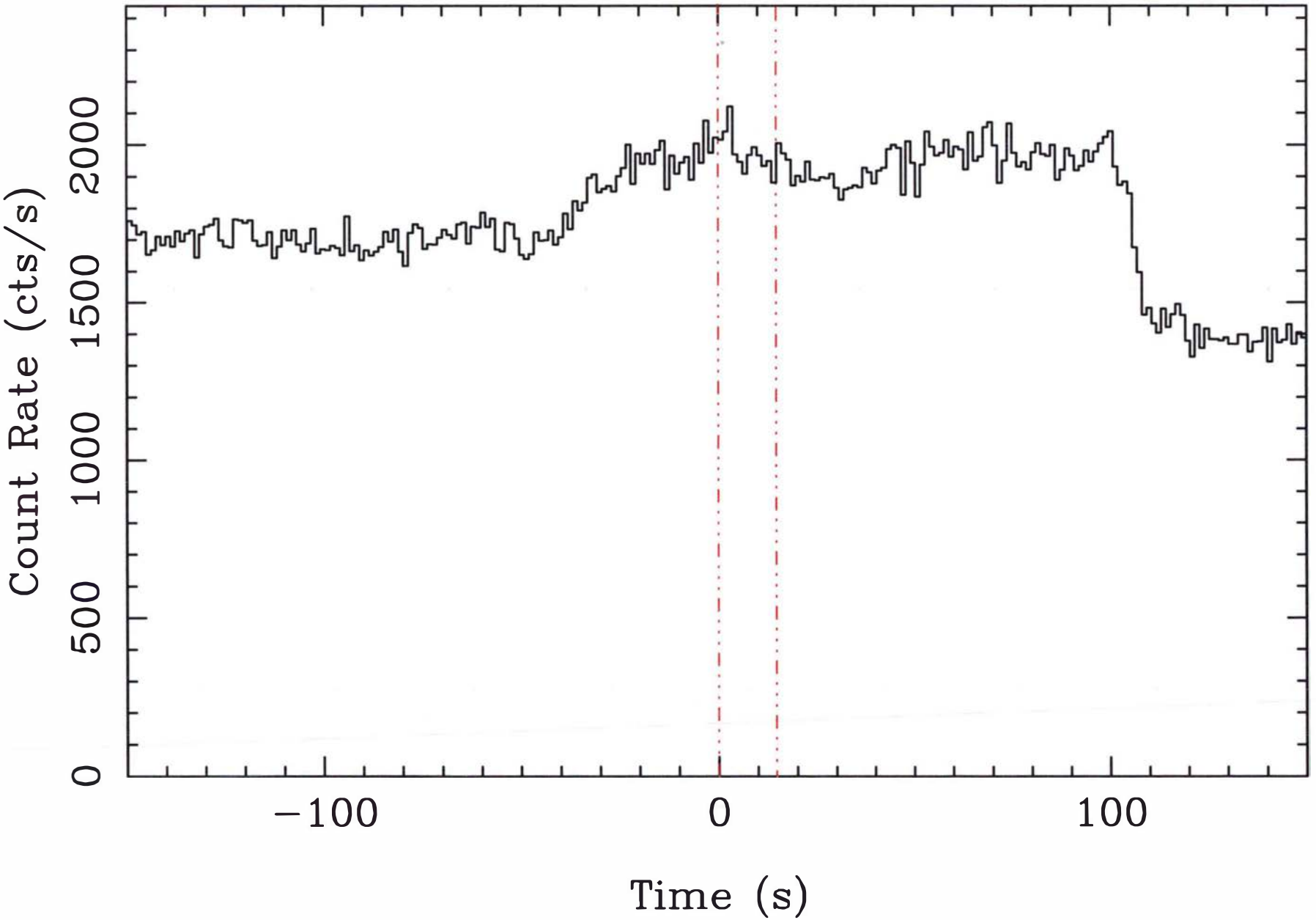
From hops@space.mit.edu Sat Jun 17 14:01:16 2006
X-ASG-Debug-ID: 1150578101-61c6007e0000-HMYXr3
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
-Barracuda-Connect: SPACE.MIT.EDU[18.75.0.10]
-Barracuda-Start-Time: 1150578101
Date: Sat, 17 Jun 2006 17:01:41 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: khurley@sunspot.ssl.berkeley.edu
X-ASG-Orig-Subj: Trigger Notice to IPN
Subject: Trigger Notice to IPN
X-Barracuda-Bayes: INNOCENT GLOBAL 0.0426 1.0000 -1.7466
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-Barracuda-Spam-Report: Code version 3.02, rules version 3.0.14971
Rule breakdown below pts rule name description
---- ---------------------- --

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Sat Jun 17 21:00:40 GMT 2006
NOTICE_TYPE: HETE S/C_Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13903 TJD; 168 DOY; 06/06/17
GRB_TIME: 59688.15 SOD {16:34:48.15} UT
TRIGGER_SOURCE: Carlo's trigger robot
GAMMA_RATE: Not computed, sorry
SC_-Z_RA: No idea, sorry
SC_-Z_DEC: Beats me
SC_LONG: Couldn't rightly say
SUN_POSTN: Don't know that one either
MOON_POSTN: There's an almanac around here somewhere...
)ON_ILLUM: Yes
COMMENTS: Improbable GRB

GRB?

From owner-hete-science@space.mit.edu Sat Jun 17 10:17:53 2006
X-ASG-Debug-ID: 1150564656-20a900090000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
-Barracuda-Connect: SPACE.MIT.EDU[18.75.0.10]
-Barracuda-Start-Time: 1150564656
Date: Sat, 17 Jun 2006 13:17:01 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: 15103261742@pacbellpcs.net, 3033595450@tmomail.net, 6173208936@mmode.com,
6174618081@messaging.sprintpcs.com, 6177460320@myairmail.com,
6177460736@myairmail.com, 6177465312@myairmail.com,
6177465315@myairmail.com, 7073327926@messaging.sprintpcs.com,
7733503838@tmomail.net, 7734545319@messaging.sprintpcs.com,
7737180106@tmomail.net, 9783942606@tmomail.net, 9786212212@vtext.com,
air-cantata.147@docomo.ne.jp,
akina.gravitational-wave.2.74k@docomo.ne.jp, be-takuto@docomo.ne.jp,
diprotodon@docomo.ne.jp, eugene.1106@ezweb.ne.jp,
hete-science@space.mit.edu, ichiro-t.314@docomo.ne.jp,
jkotoku@ezweb.ne.jp, liberated-letter@docomo.ne.jp,
makoto-arimoto@n.vodafone.ne.jp, motoko_prime@di.pdx.ne.jp,
nicolasvp@ezweb.ne.jp, nothung@t.vodafone.ne.jp,
pc-engine_gt@t.vodafone.ne.jp, r08031241707@t.vodafone.ne.jp,
rednow-ssalg_di2003@docomo.ne.jp, rosalia-pager@galassi.org,
toru.tamagawa@ezweb.ne.jp,
yshirasa-hete2-grb-jvo-grid@c.vodafone.ne.jp
X-ASG-Orig-Subj: [hete-science] BURST 4076, GAMMA trigger at 060617_163447
Subject: [hete-science] BURST 4076, GAMMA trigger at 060617_163447
X-MajorDomo-List: hete-science
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-ASG-Whitelist: Sender (Per-User)

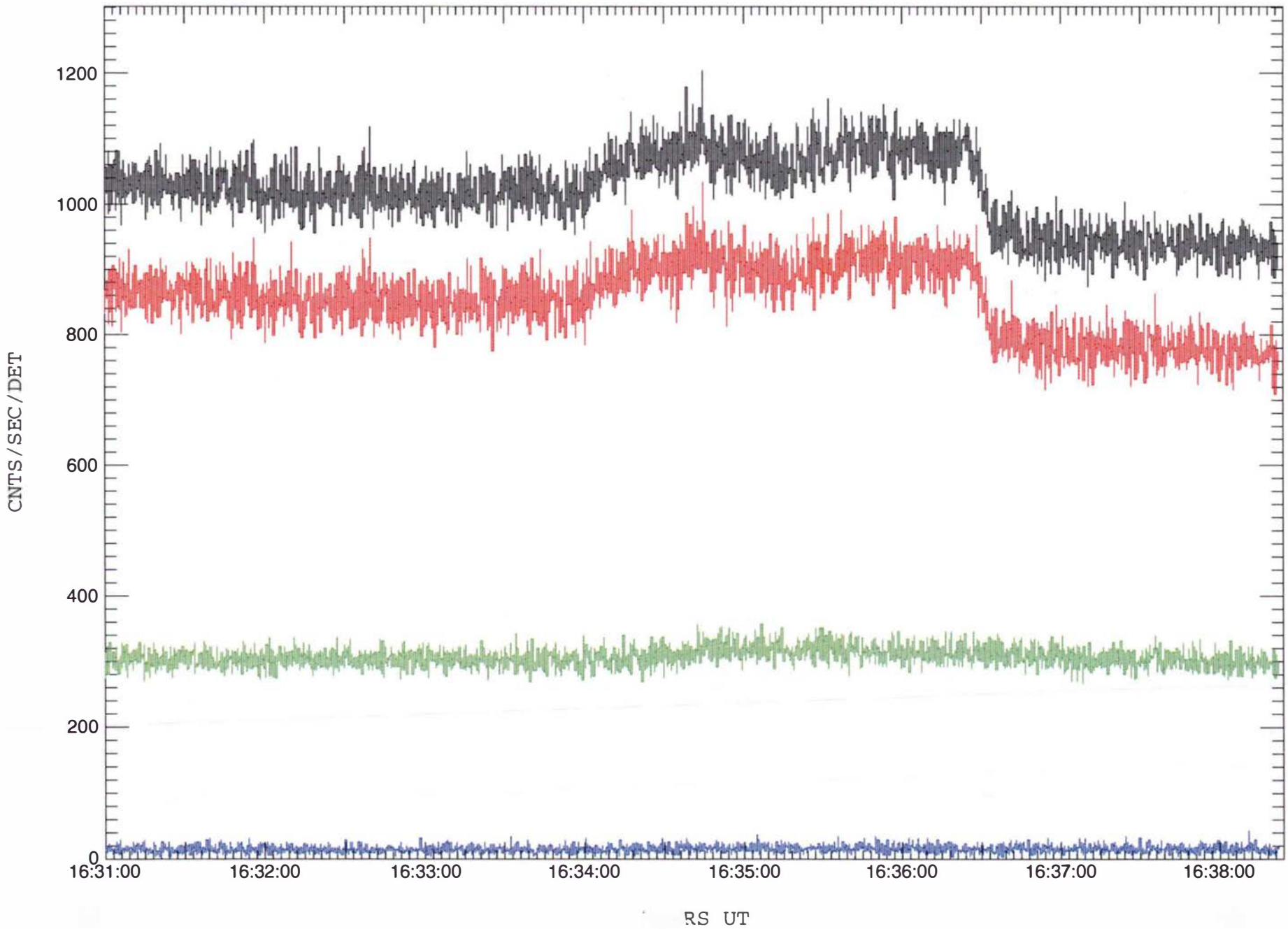
Hops: BURST 4076, GAMMA band C trigger at 060617_163447, Long 164W, Phase 0.74


FREGATE Band A, 1.2s Resolution Data
Time Since UTC = 20060617_163448.155250
Count Rate (cts/s)
0
500
1000
1500
2000
−100
0
100
Time (s)

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20060617_59688)

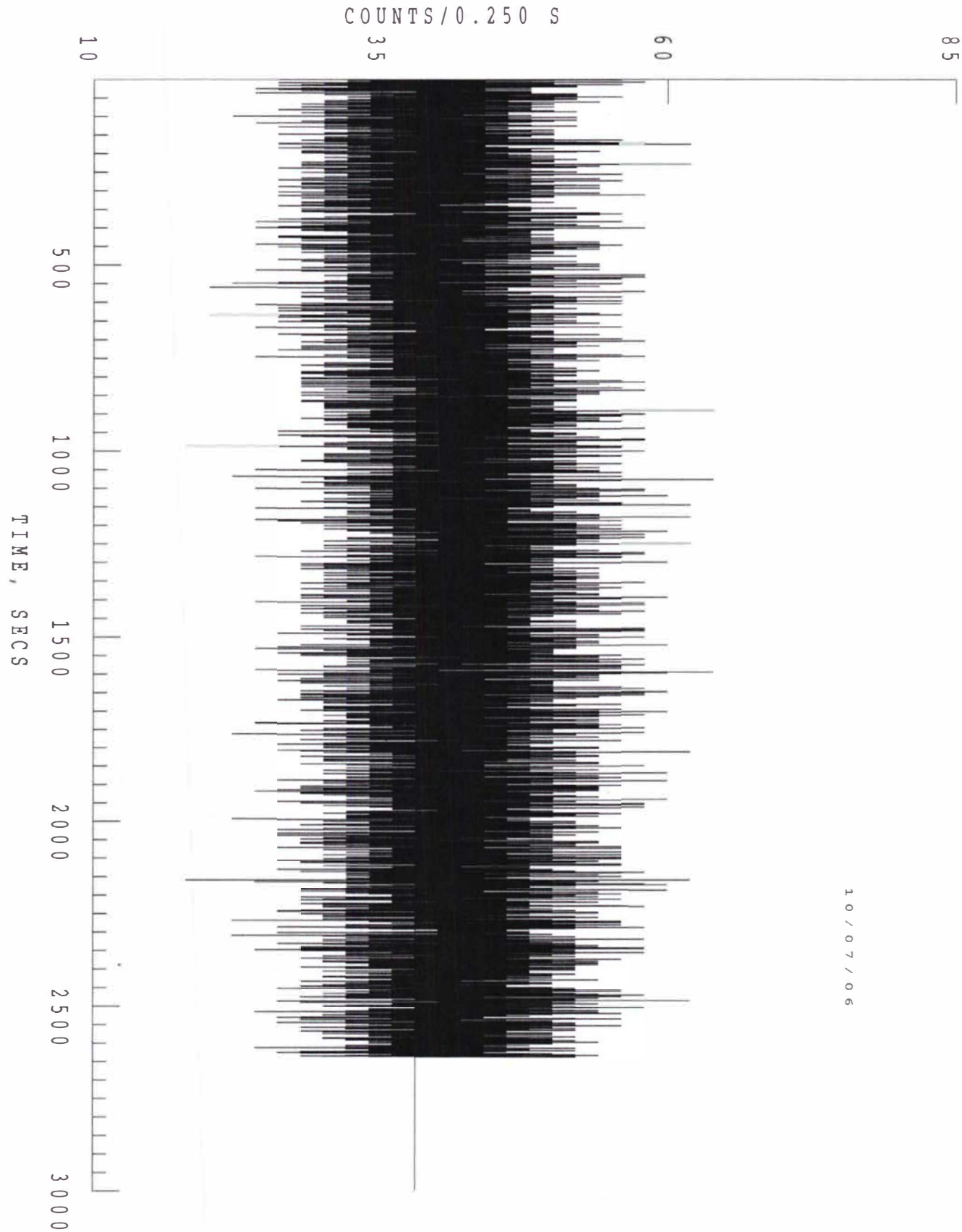
BEG TIME: 17/06/06 DOY 168 Julian 2453905.18833 UT = 16.520 16:31:12 (59472.000 secs) [sct = 0019 d415 0e77 c2fb]
END TIME: 17/06/06 DOY 168 Julian 2453905.19333 UT = 16.640 16:38:24 (59904.000 secs) [sct = 0019 d415 2837 9067]

Chan 1:[E1=19 E2=103] Channel 1 + 600
Chan 2:[E3=17 E4=77] Channel 2 + 400
Chan 3:[E5=19 E6=509] Channel 3 + 200
Chan 4:[E6=509 ->] Channel 4 + 0



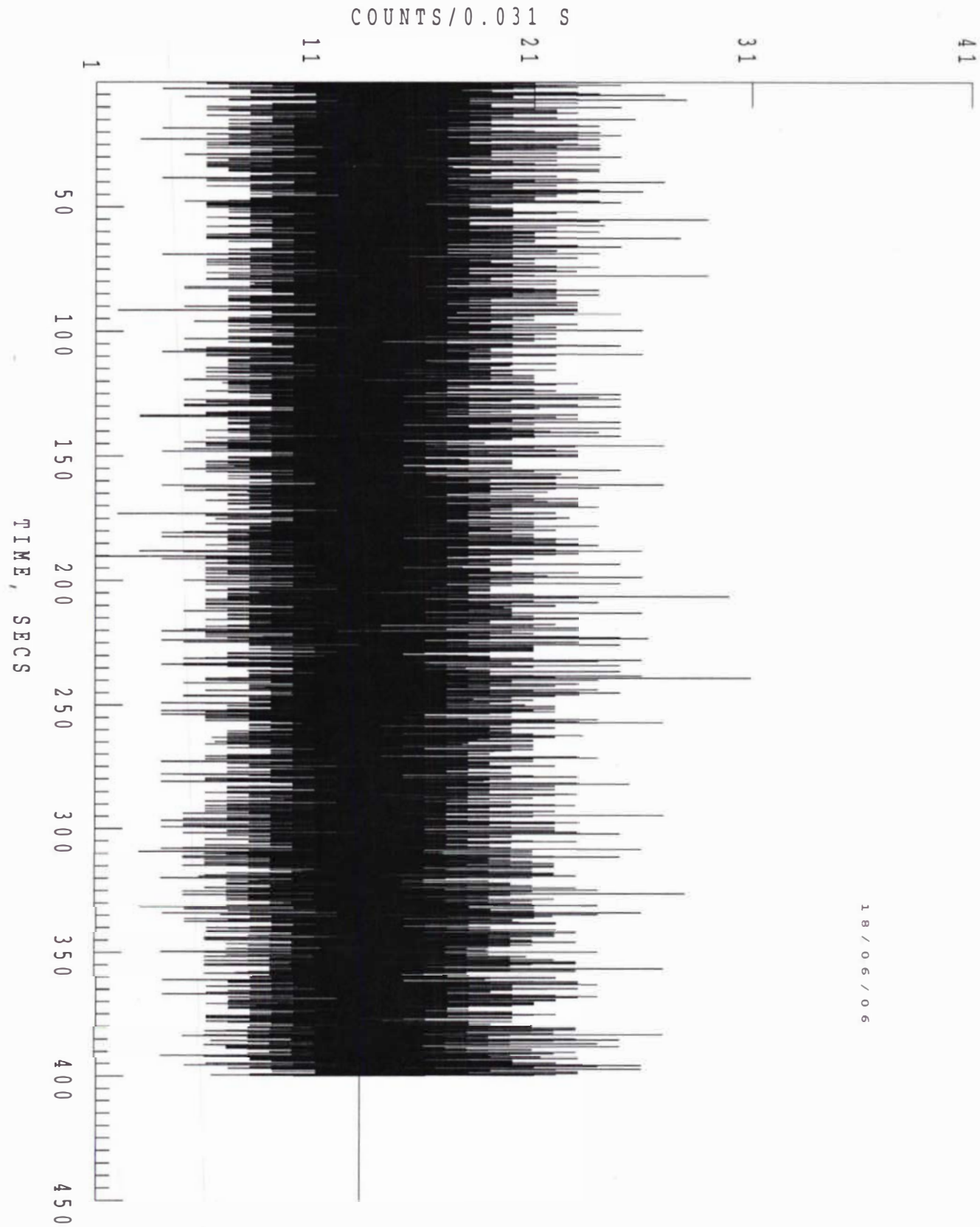
MS01 17/06/06 58364.692

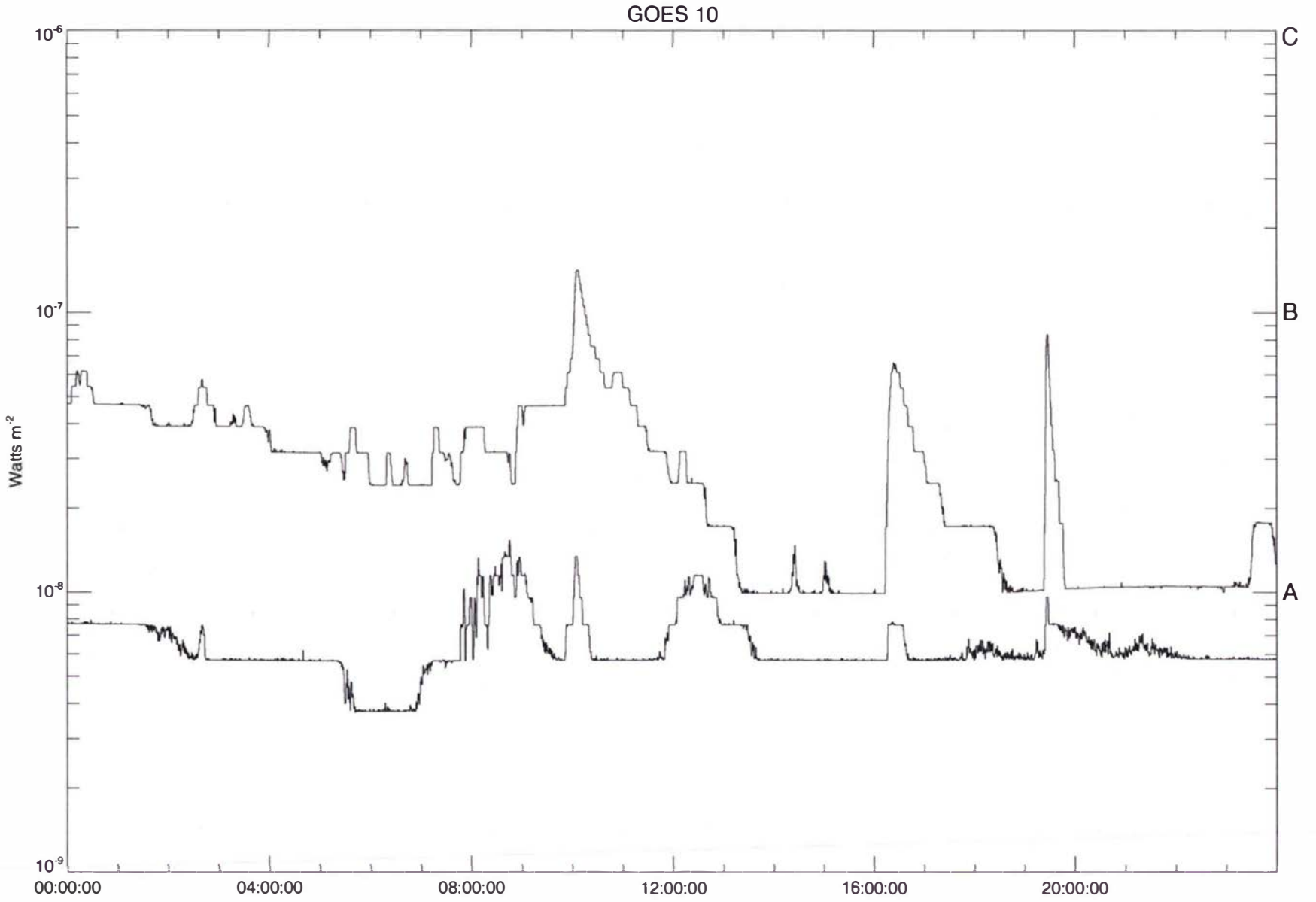
50- 3000 keV



HESSI 17/06/06 59488.000 (GHETE_9999_1_20060617_59688)

25- 150 keV

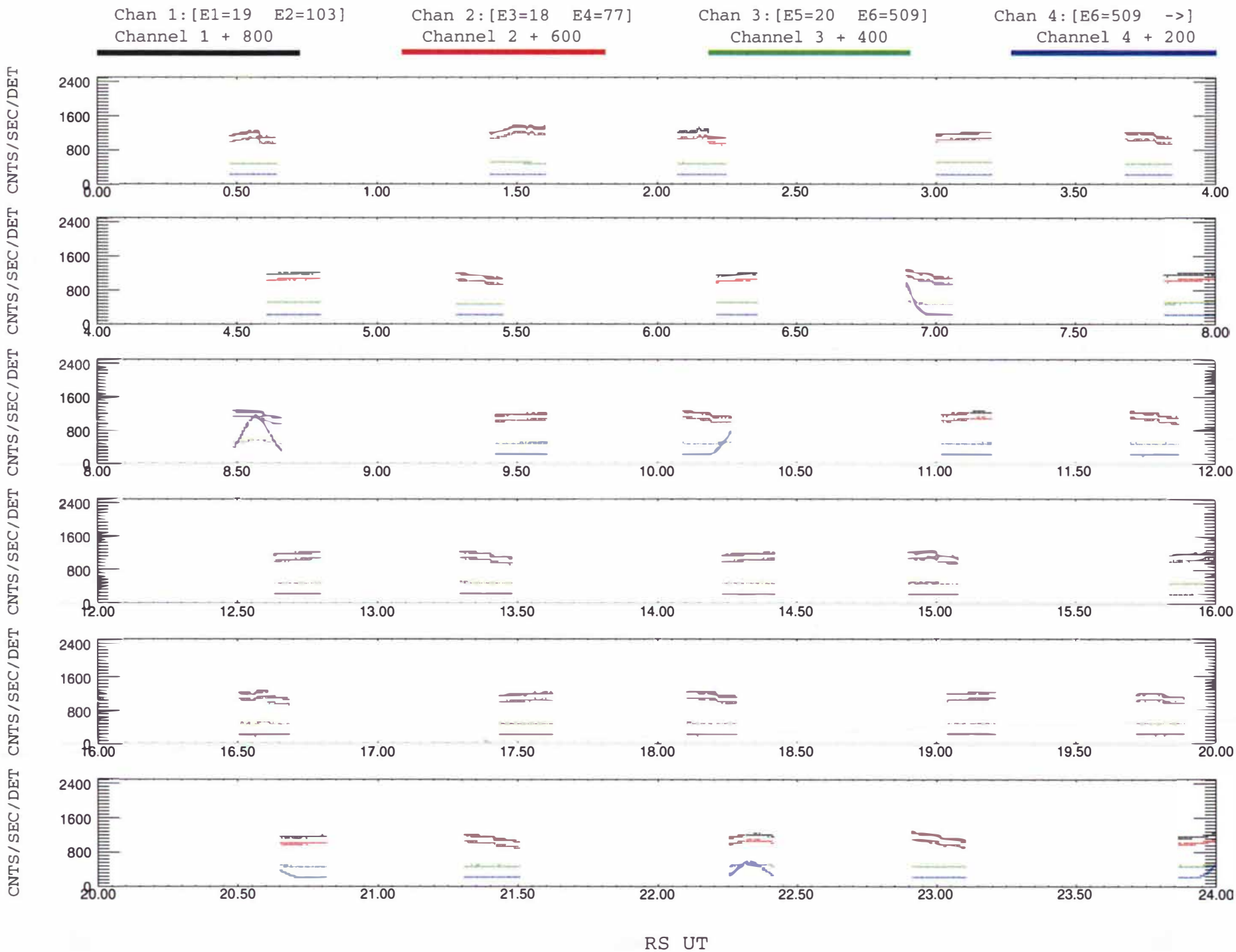


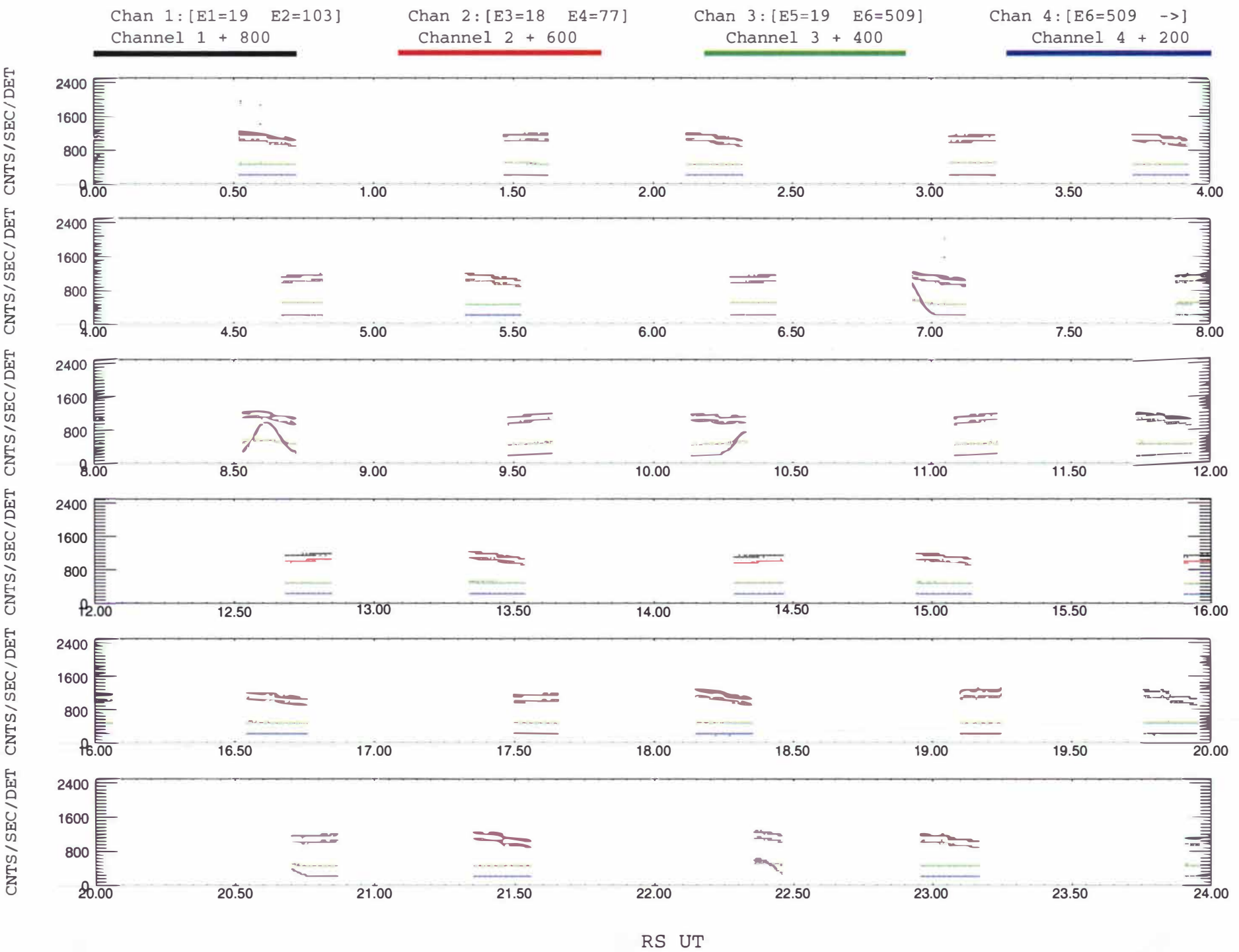


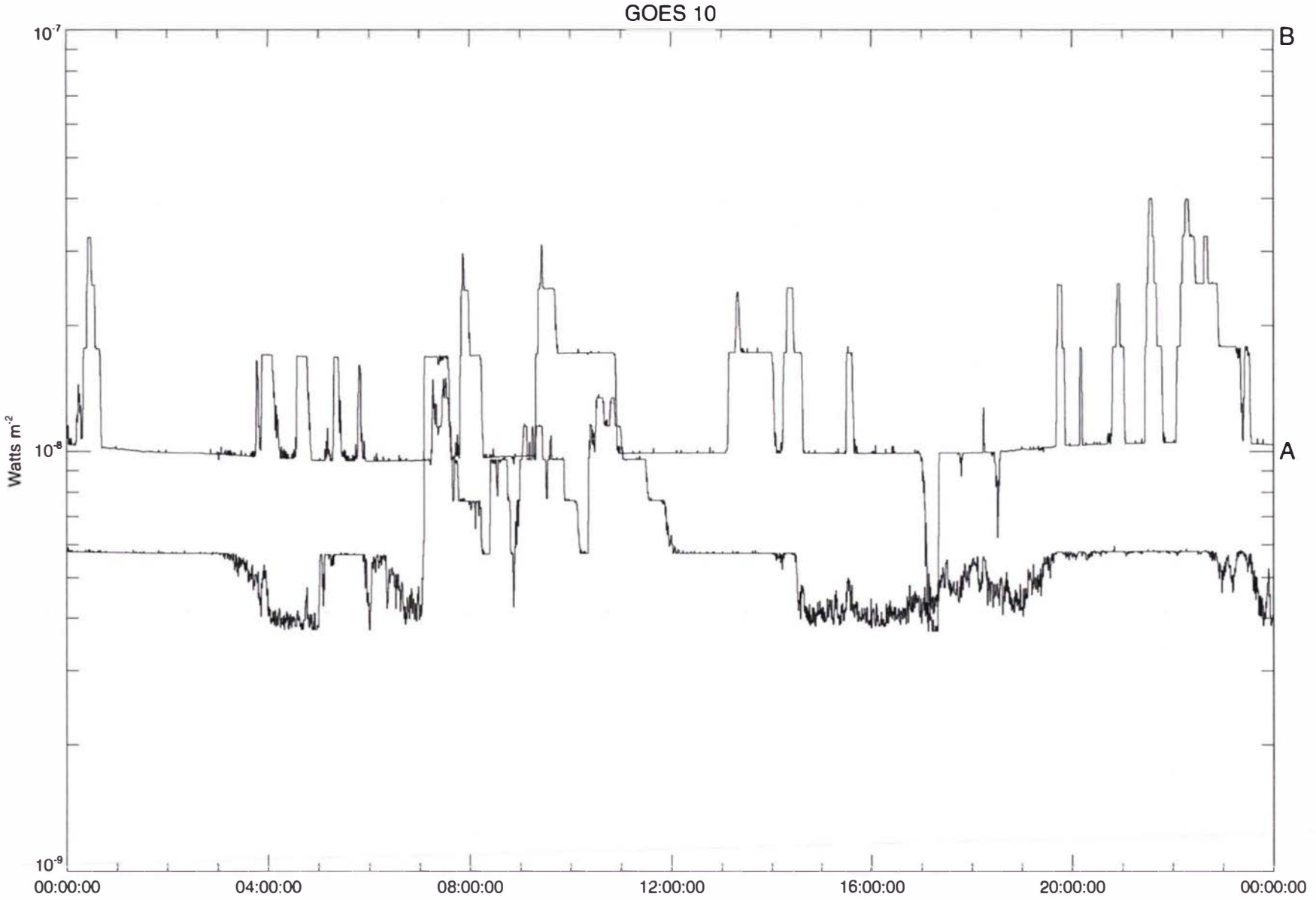
Data Start: 06/06/17, 0000:00 Plot created: 06/06/20, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED

17/06/06 DOY 168 Julian 2453904.50000 [est. sct = 0019 d407 35a8 4b17]




FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED
18/06/06 DOY 169 Julian 2453905.50000 [est. sct = 0019 d41b 5380 c7ad]
Chan 1:[E1=19 E2=103]
Channel 1 + 800
Chan 2:[E3=18 E4=77]
Channel 2 + 600
Chan 3:[E5=19 E6=509]
Channel 3 + 400
Chan 4:[E6=509 ->]
Channel 4 + 200
CNTS/SEC/DET
2400
1600
800
0
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
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23.00
23.50
24.00
RS UT



Data Start: 06/06/18, 0000:00 Plot created: 06/06/21, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

Date: Jun 29 2010

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

□ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

2. AGILE Data

□ 1 second timing error corrected?

3. MESSENGER Data

□ Coarse or fine oscillator?

□ 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)

□ 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

□ Σ 3Δt's calculated, and/or BMAPSUM executed?

7. For INTEGRAL events

□ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?

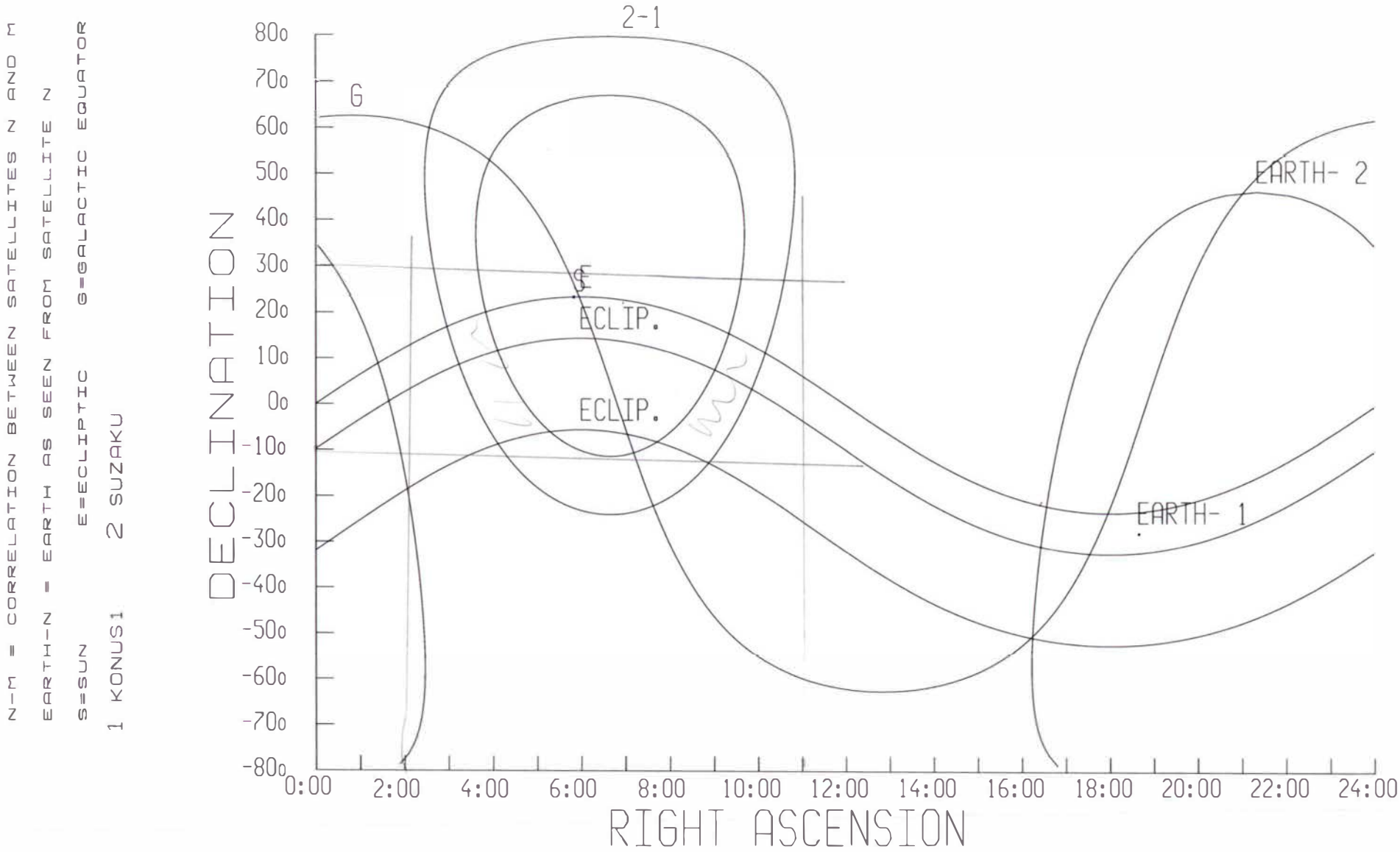
□ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?

□ Updated ephemeris used for bursts prior to September 30, 2003?

☑ ACCESS and MBL4 databases updated, with identical times?

EVENT OF JUN 19, 2006 1:27

29/06/2010



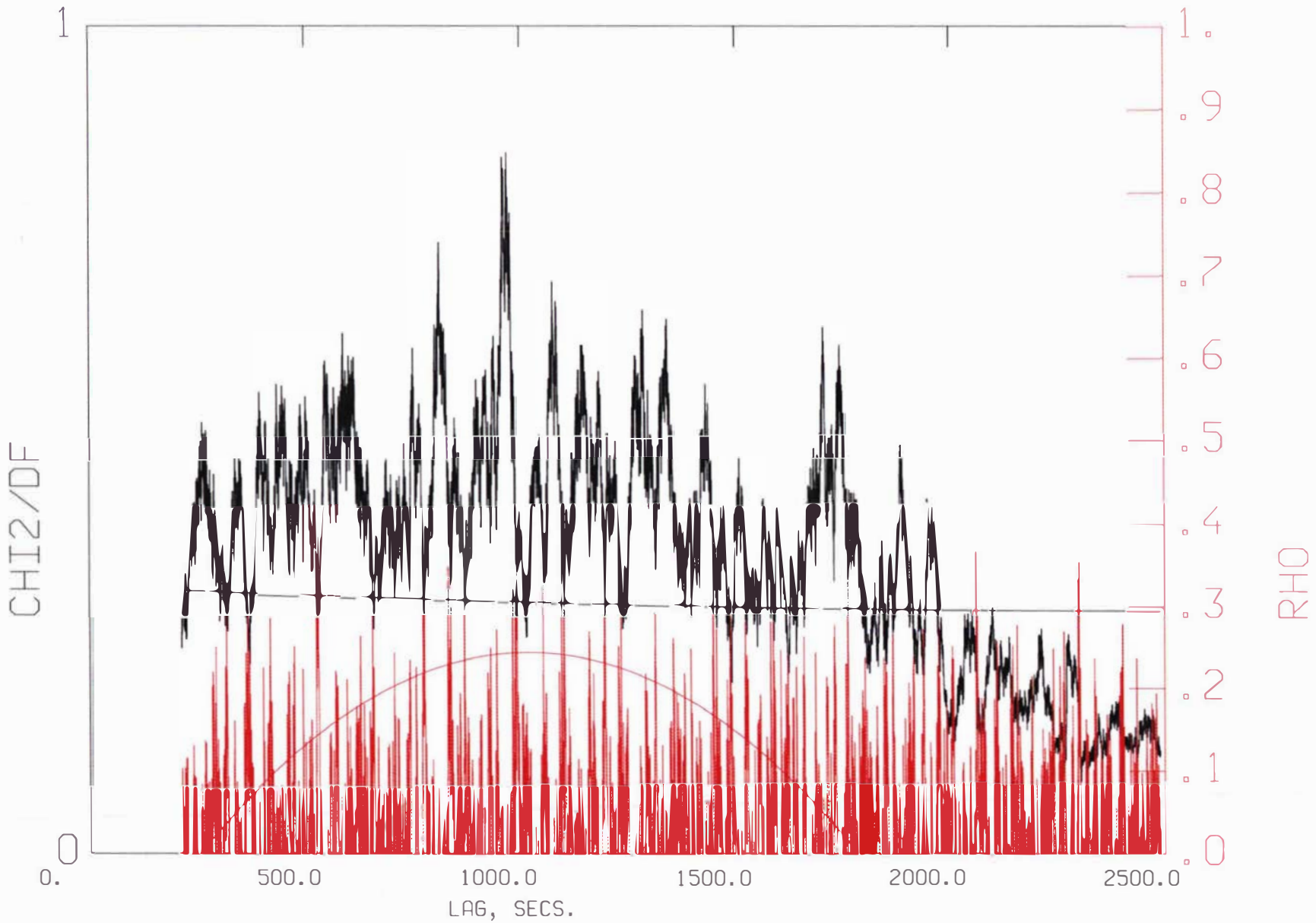
N-M = CORRELATION BETWEEN SATELLITES N AND M

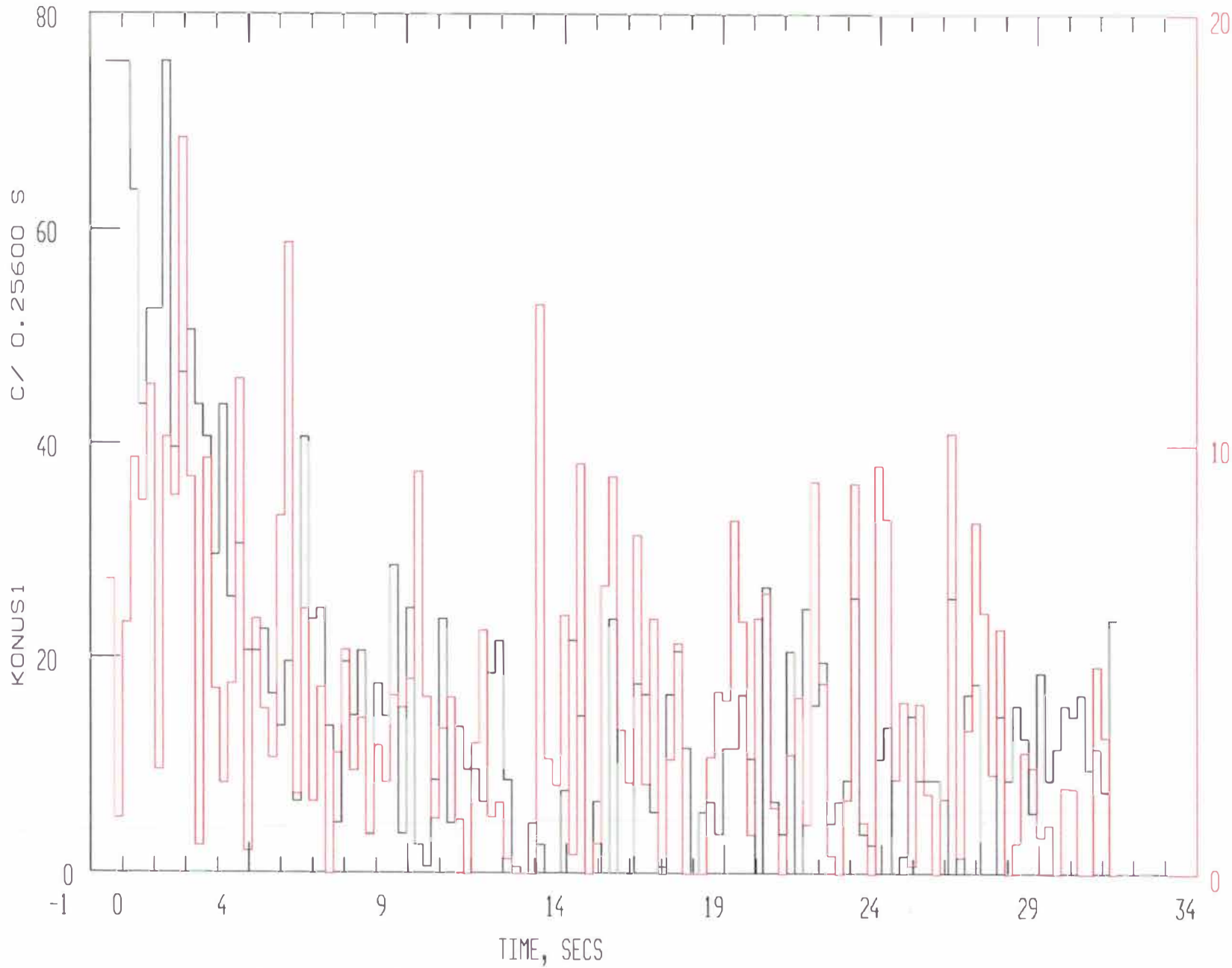
EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN E=ECLIPTIC G=GALACTIC EQUATOR

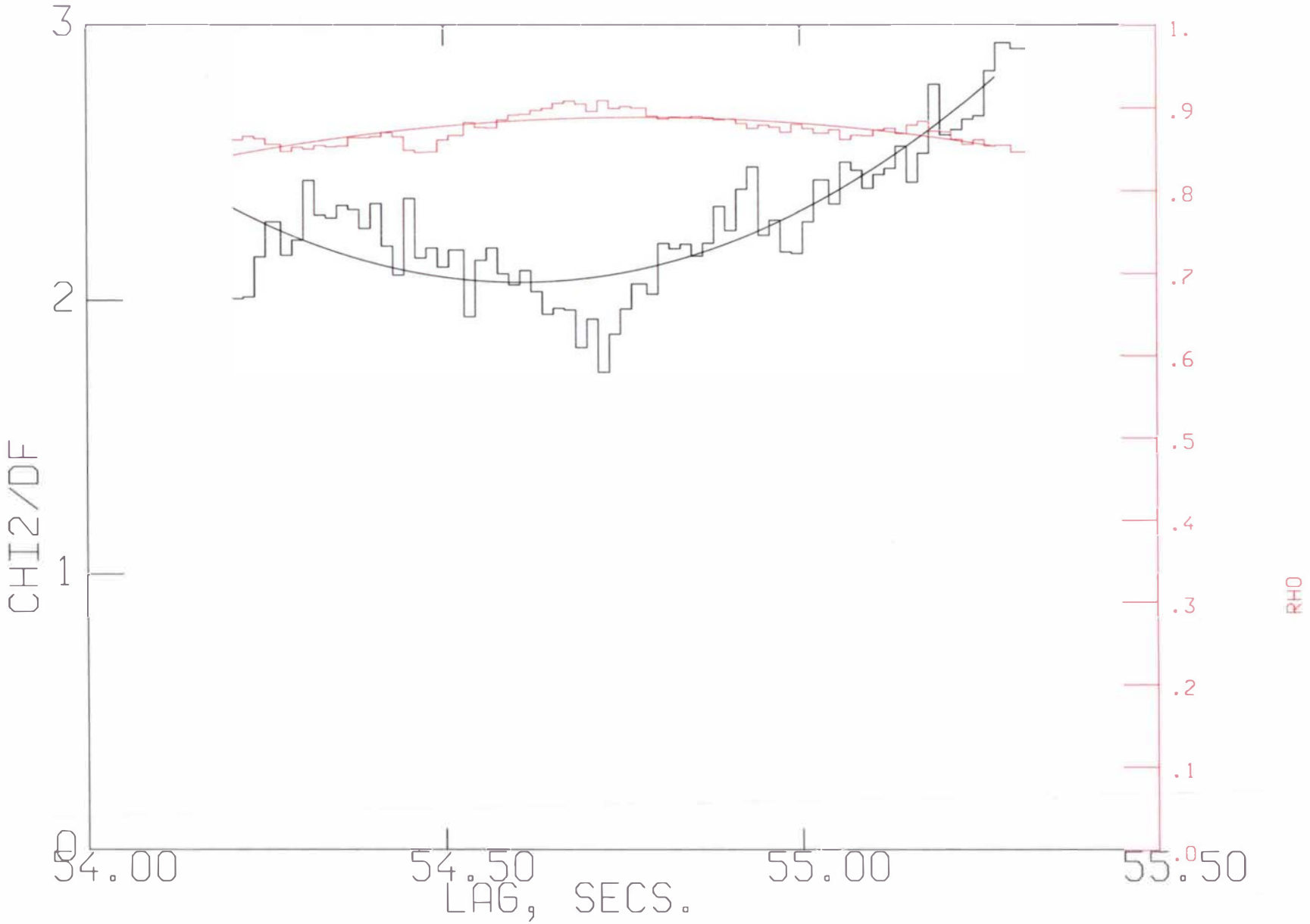
1 KONUS1 2 SUZAKU

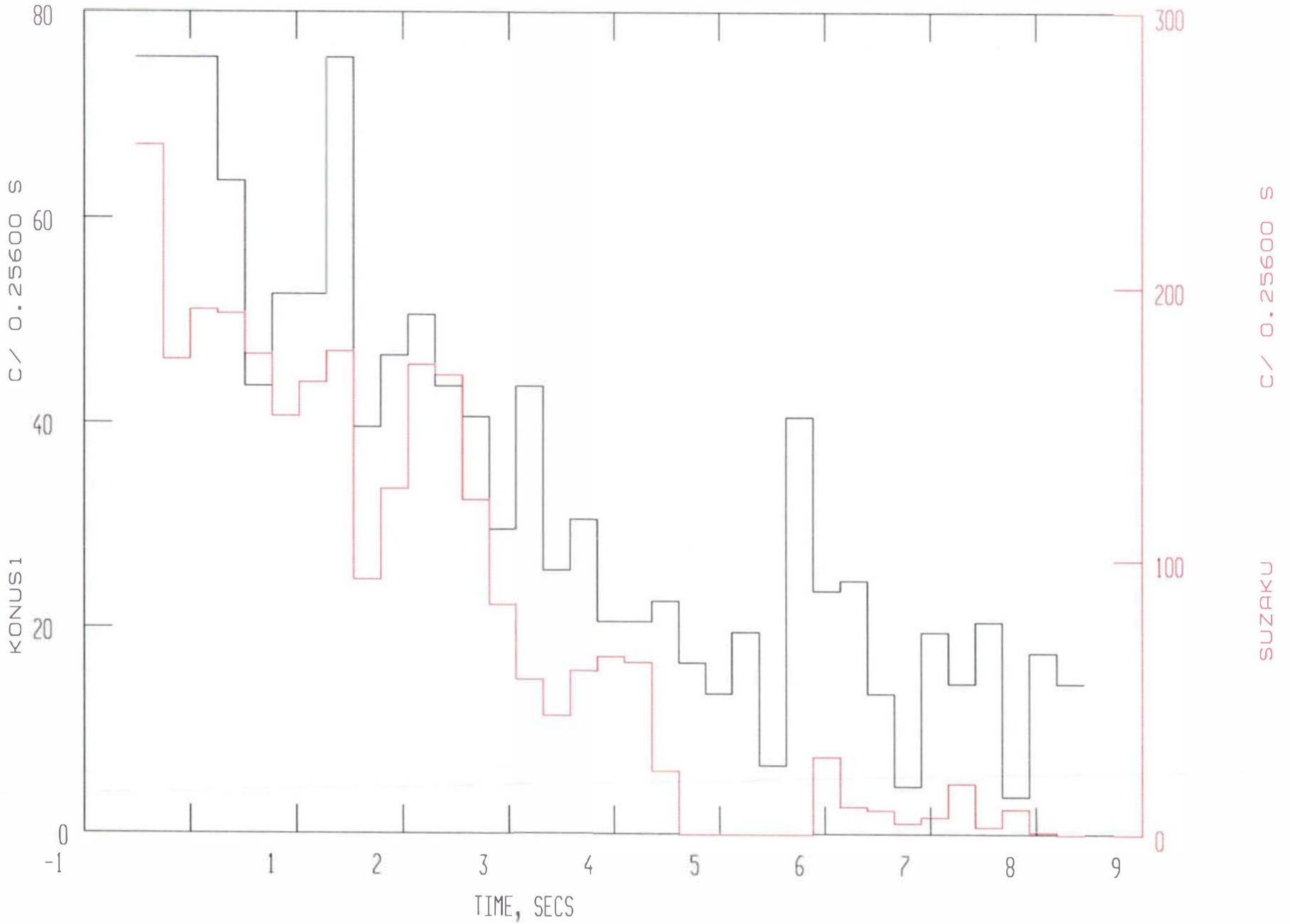
KONUS1 -MSO1 HEND CORRELATION 19/06/06 5233.764



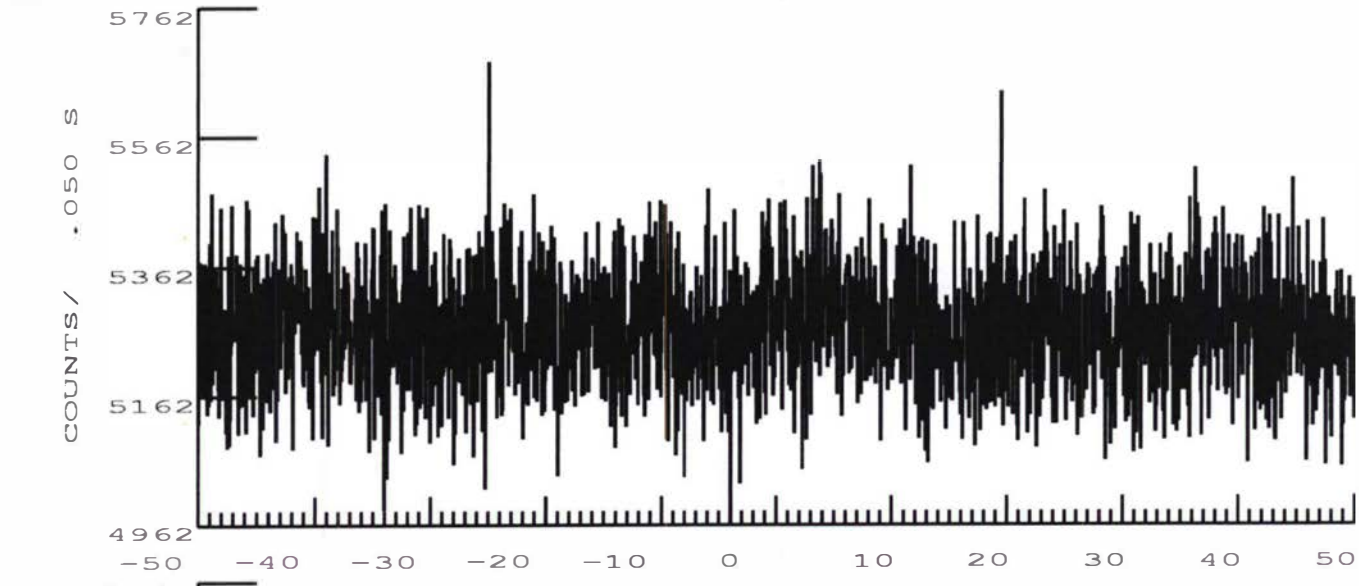

KONUS1 -MSO1 HEND CORRELATION 19/06/06 5233.764
80
60
40
20
0
C/ 0.25600 S
KONUS1
20
10
0
C/ 0.25600 S
MSO1 HEND
-1
0
4
9
14
19
24
29
34
TIME, SECS

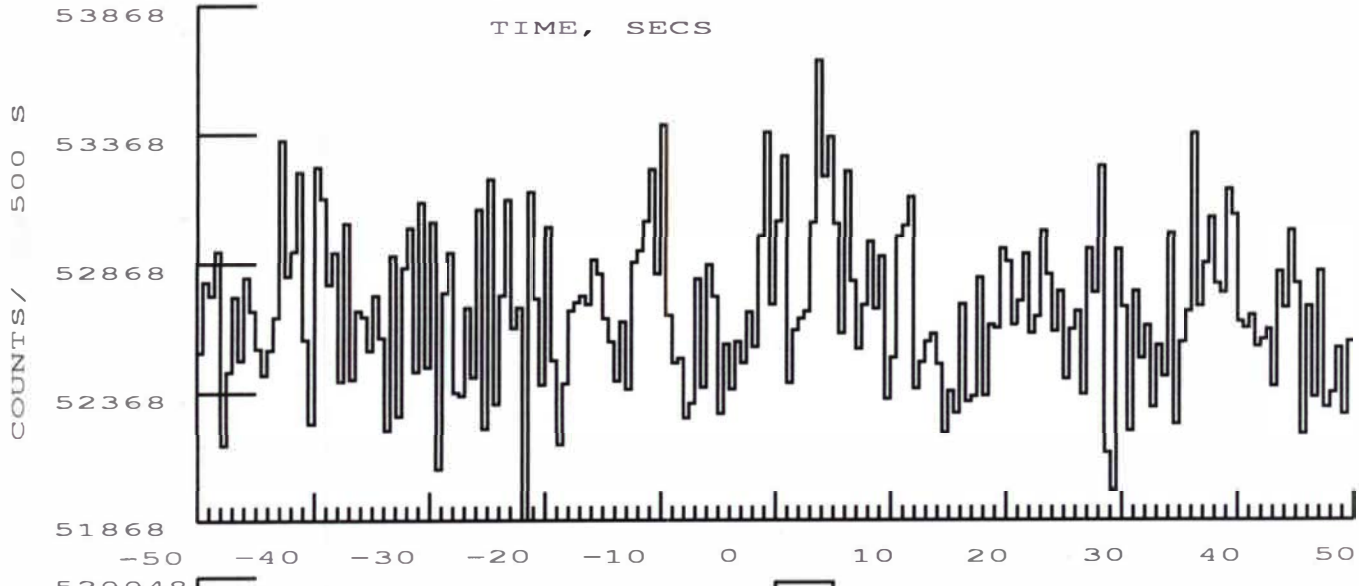
KONUS1 -SUZAKU CORRELATION 19/06/06 5233.764

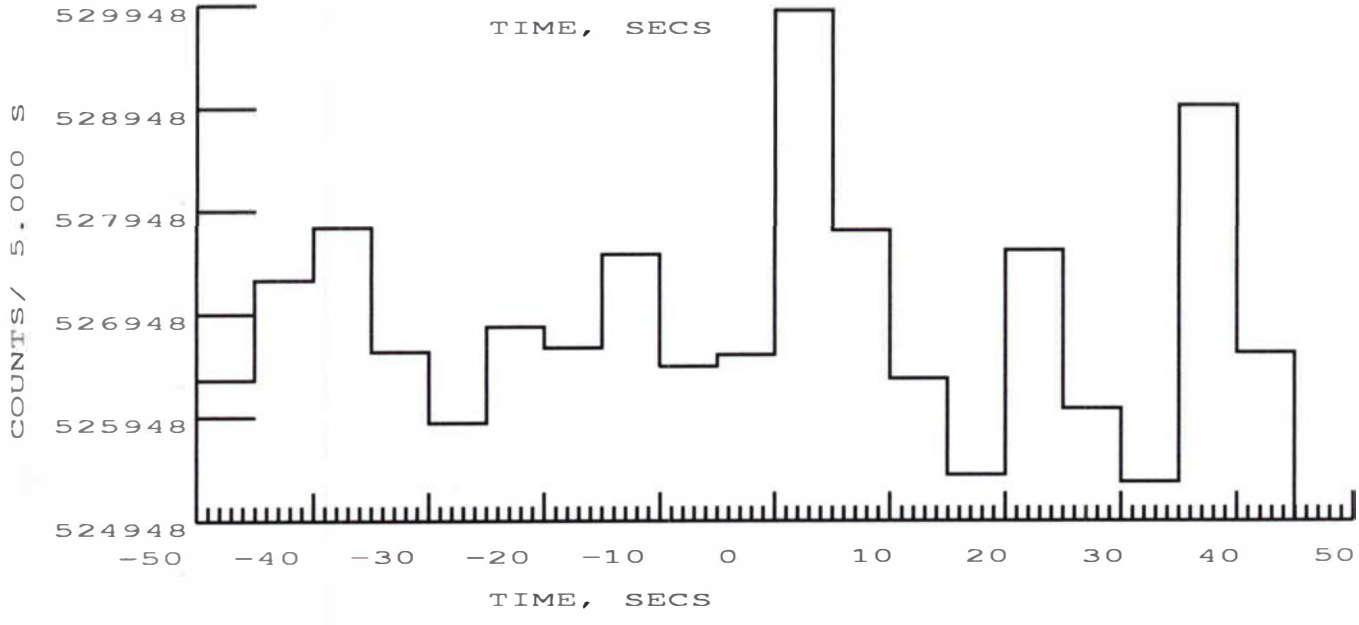



80
60
40
20
0
C/ 0.25600 S
KONUS1
300
200
100
0
C/ 0.25600 S
SUZAKU
-1
1
2
3
4
5
6
7
8
9
TIME, SECS

INTEGRAL 19/06/06 5233.000 01:27:13.0 11/07/14

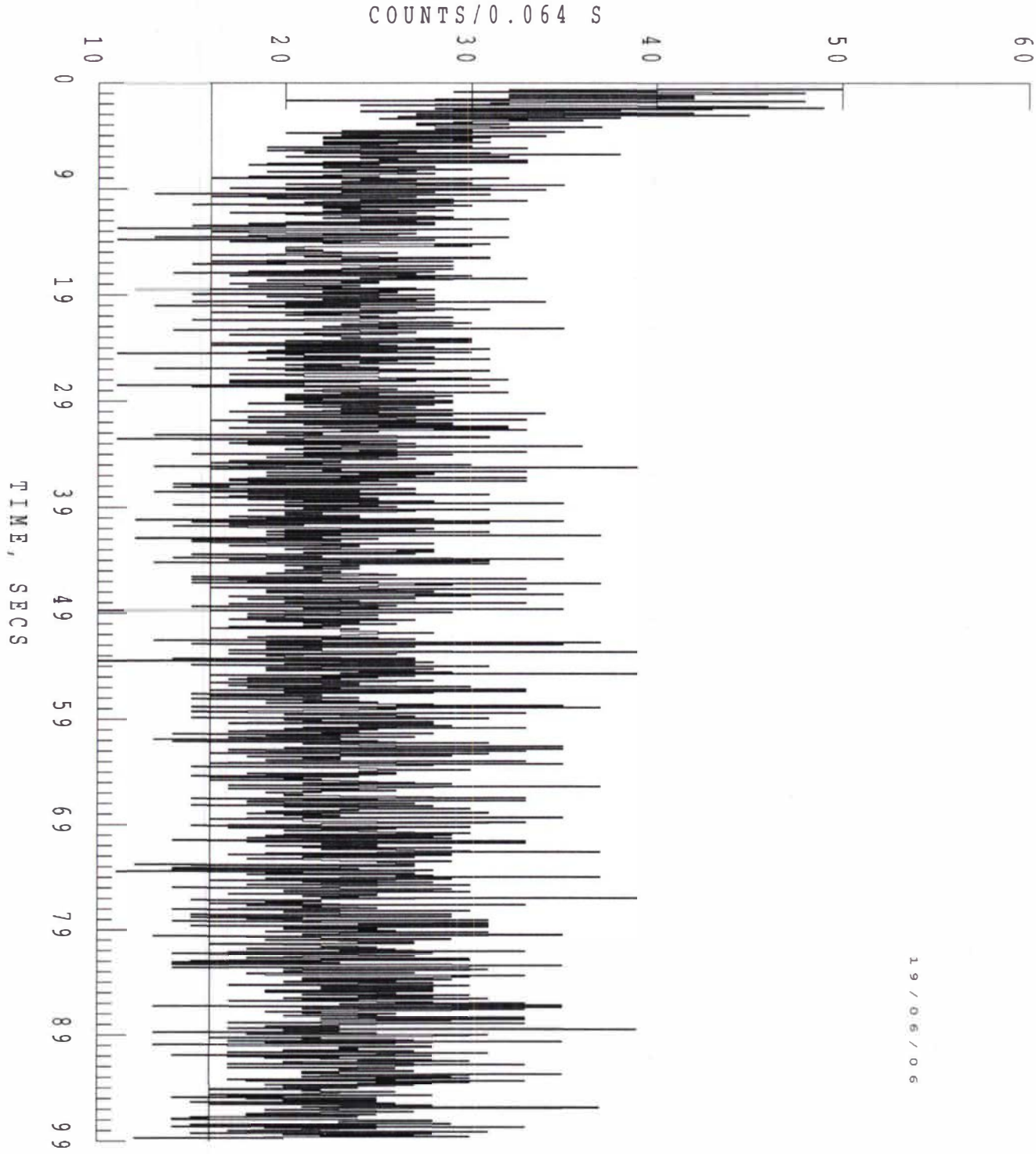






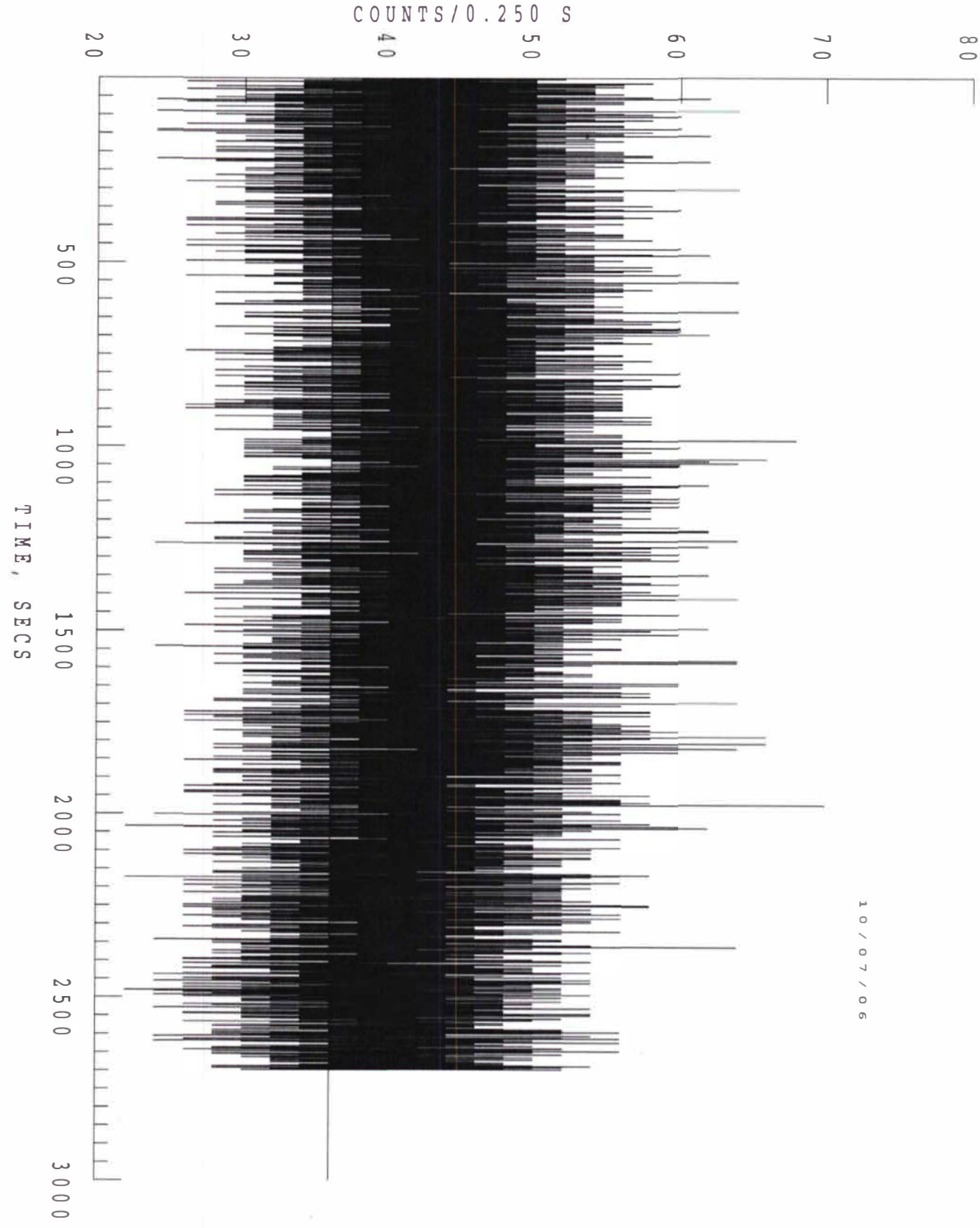
KONUS1 19/06/06 5233.764

50- 200 keV 01:27:13



MS01 19/06/06 3822.549

50- 3000 keV

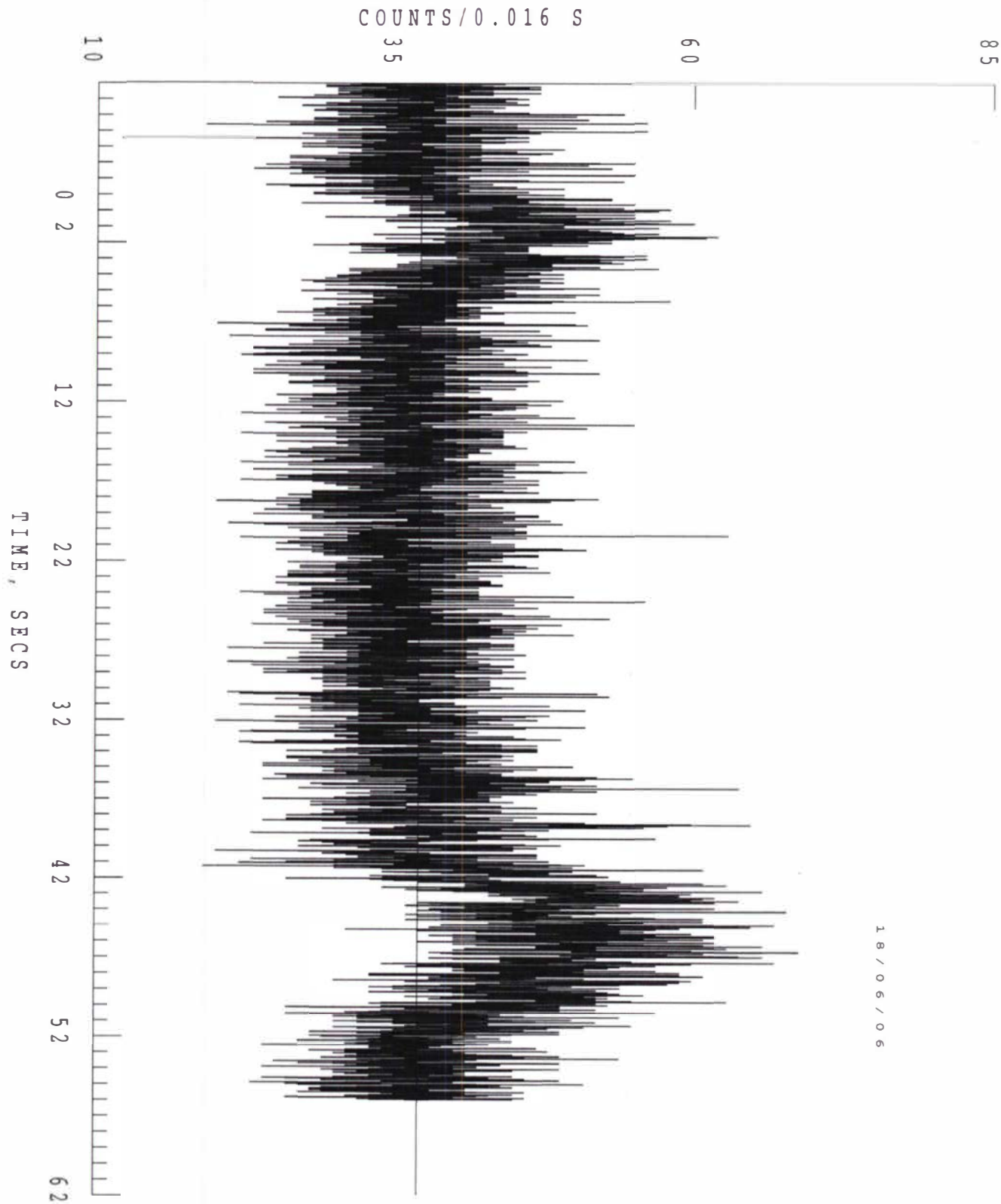


From williams@sunspot.ssl.berkeley.edu Sat Jun 24 06:48:17 2006
X-ASG-Debug-ID: 1151156928-71f0005c0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: gammaburst.SSL.Berkeley.EDU[128.32.98.141]
X-Barracuda-Start-Time: 1151156928
Date: Sat, 24 Jun 2006 06:57:01 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@ssl.berkeley.edu
X-ASG-Orig-Subj: No_RHESSI_data_for_SUZAKU_20060619_05190
Subject: No_RHESSI_data_for_SUZAKU_20060619_05190
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-ASG-Whitelist: Sender (Per-User)

HESSI 25 to 150 keV Counts
Created 24-Jun-2006 06:47:30.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0312500
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

SUZAKU 19/06/06 5190.440

50- 240 keV 01:26:30



From owner-hete-science@space.mit.edu Mon Jun 19 04:52:59 2006
X-ASG-Debug-ID: 1150718006-078200100000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
 -Barracuda-Connect: SPACE.MIT.EDU[18.75.0.10]
 -Barracuda-Start-Time: 1150718006
Date: Mon, 19 Jun 2006 20:46:56 +0900
From: Motoko SUZUKI <motoko@crab.riken.jp>
To: hete-science@space.mit.edu
X-ASG-Orig-Subj: Re: [hete-science] [Fwd: Trigger Notice 3 20060619_010351]
Subject: Re: [hete-science] [Fwd: Trigger Notice 3 20060619_010351]
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
X-MajorDomo-List: hete-science
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-ASG-Whitelist: Sender (Per-User)

Dear Jean-Luc,

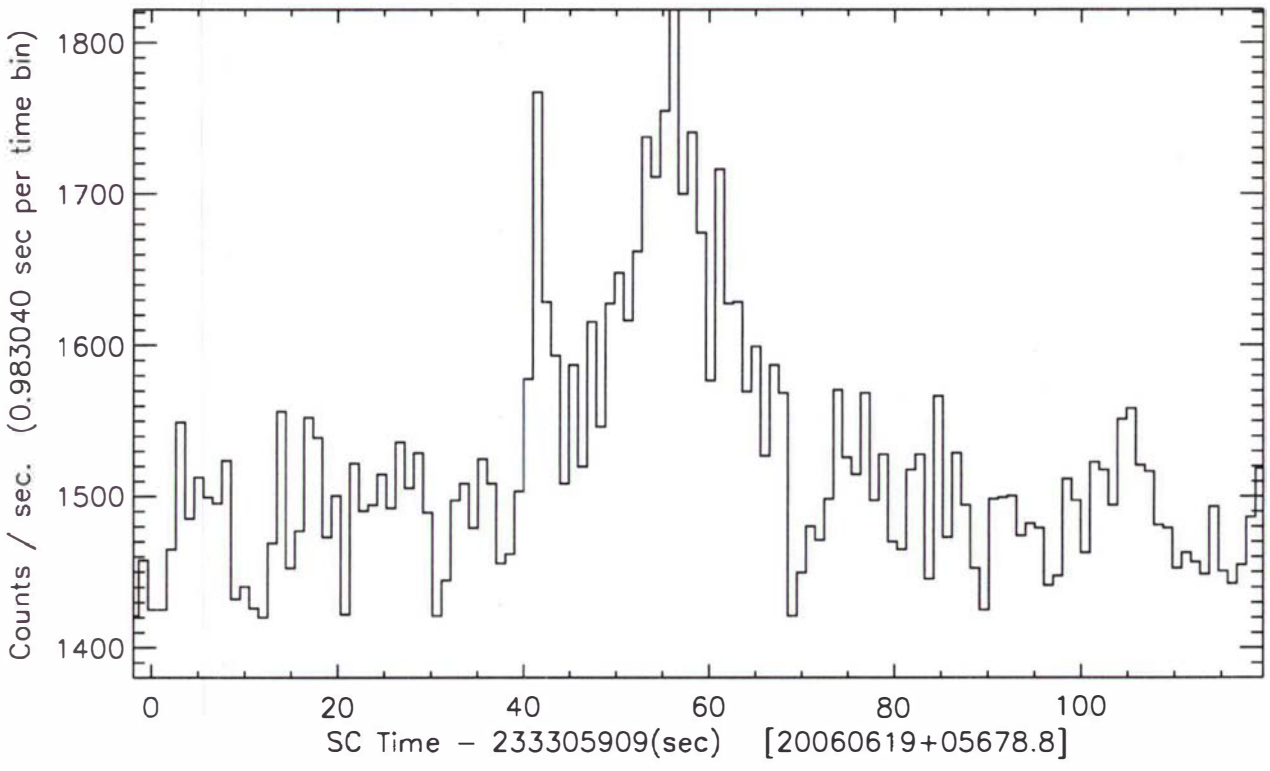
> The light curve of this event is not looking like an XRB.
>
> It's soft, tough, so it could be an XRF or a strange XRB.
>
> Since there is some signal in the WXM, it may be worth
> checking its localization.

The burst looks like XRB with photospheric expansion.
Since theta_x of this burst is >23, we cannot determine theta_y.
However, I guess that the source is x1702-429.

```
 inst_aspect -a 114.553 38.813 18.596 -d -w 23.210 0 -x 0.3
 WXM source plane vertex 16.790 -28.370
 x1702-429        ( 256.565 , -43.030 )     delta= 0.026
 x1905+000        ( 287.114 ,   0.169 )     delta= 0.205

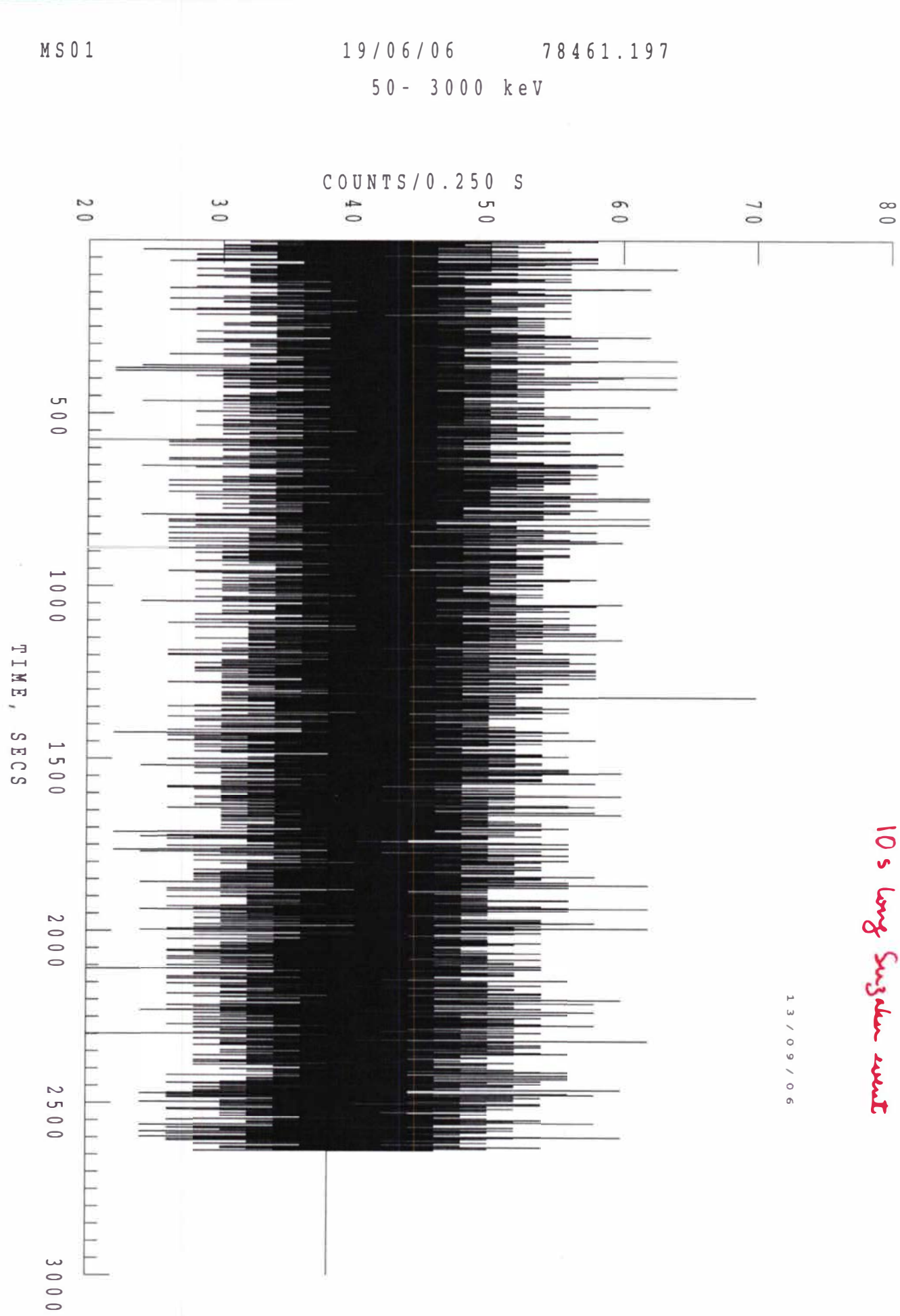
 wxm2cel -r 114.553 -d 38.813 -l 18.596 --obj-ra 256.565 \
   --obj-dec -43.030
 Aspect: ra= 114.553000, dec= 38.813000, roll= 18.596000
 Object: ra= 256.565000, dec = -43.030000
 thx= 23.283879  thy= 19.251300
```

Motoko



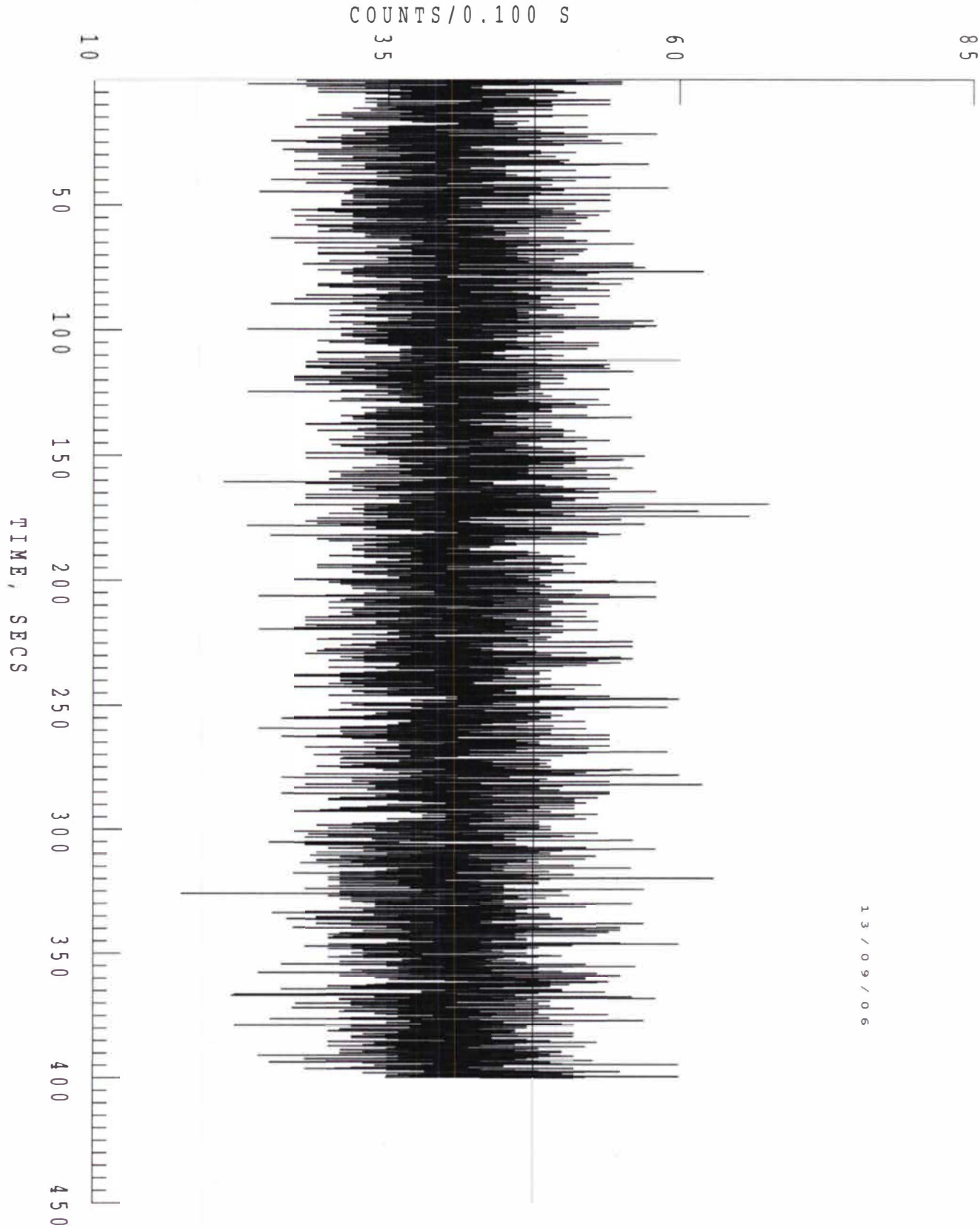
D1: 1000 – D2: 1000 – D3: 1000 – D4: 1000

From : /hete2/fregate/fdb/vipp_0606/ith/th_060619.ipp (IPPs 0 a 2516)


MS01
19/06/06
78461.197
50- 3000 keV
COUNTS/0.250 S
20
30
40
50
60
70
80
500
1000
1500
2000
2500
3000
TIME, SECS
13/09/06
10s long Swift event

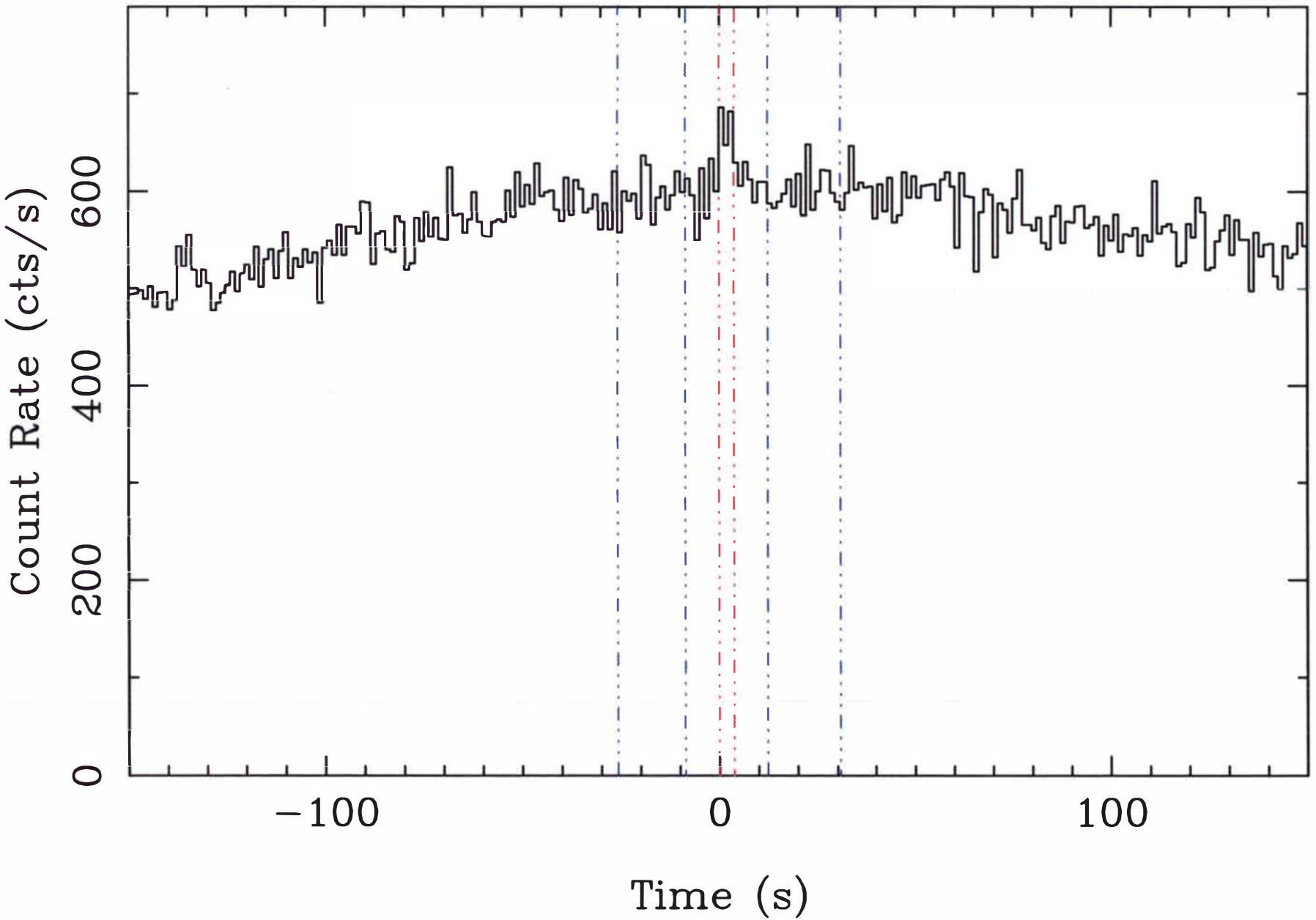
HESSI 19/06/06 79611.000 (SUZAKU_20060619_79811)

25- 150 keV



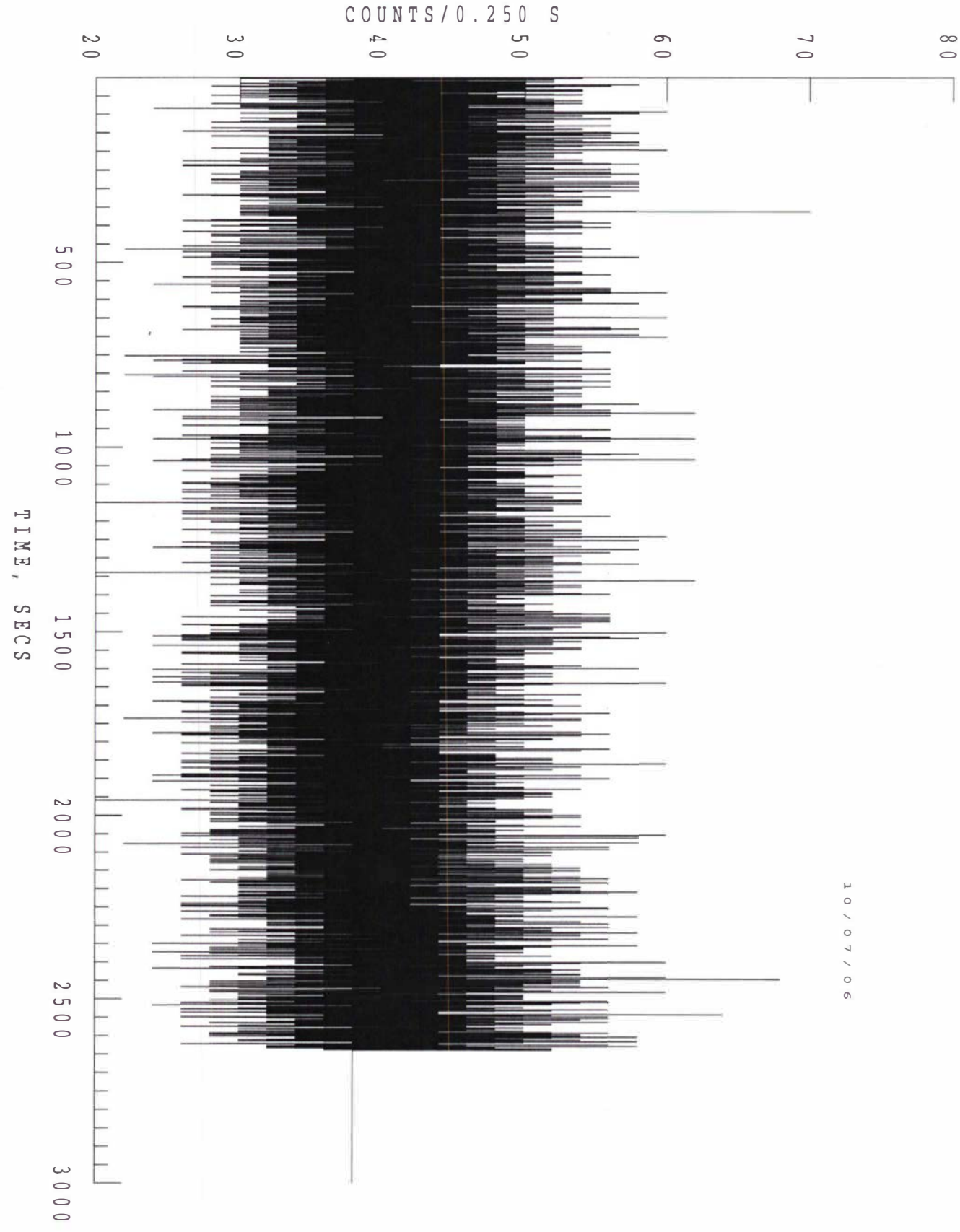
From hops@space.mit.edu Wed Jun 21 08:52:59 2006
X-ASG-Debug-ID: 1150905206-3e04002f0000-HMYXr3
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: SPACE.MIT.EDU[18.75.0.10]
X-Barracuda-Start-Time: 1150905206
Date: Wed, 21 Jun 2006 11:53:26 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: khurley@sunspot.ssl.berkeley.edu
X-ASG-Orig-Subj: Trigger Notice to IPN
Subject: Trigger Notice to IPN
X-Barracuda-Bayes: INNOCENT GLOBAL 0.3965 1.0000 -0.0090
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-Barracuda-Spam-Report: Code version 3.02, rules version 3.0.15240
        Rule breakdown below pts rule name   description
        ---- ---------------------- --

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Wed Jun 21 15:53:13 GMT 2006
NOTICE_TYPE: HETE S/C_Alert
TRIGGER_NUM: 9999,   Seq_Num: 1
GRB_DATE: 13905 TJD;   170 DOY;   06/06/19
GRB_TIME: 80732.52 SOD {22:25:32.52} UT
TRIGGER_SOURCE: Carlo's trigger robot
GAMMA_RATE: Not computed, sorry
SC_-Z_RA: No idea, sorry
SC_-Z_DEC: Beats me
SC_LONG: Couldn't rightly say
SUN_POSTN: Don't know that one either
MOON_POSTN: There's an almanac around here somewhere...
MOON_ILLUM: Yes
COMMENTS: Improbable GRB


FREGATE Band C, 1.2s Resolution Data
Time Since UTC = 20060619_222532.521437
Count Rate (cts/s)
0
200
400
600
−100
0
100
Time (s)

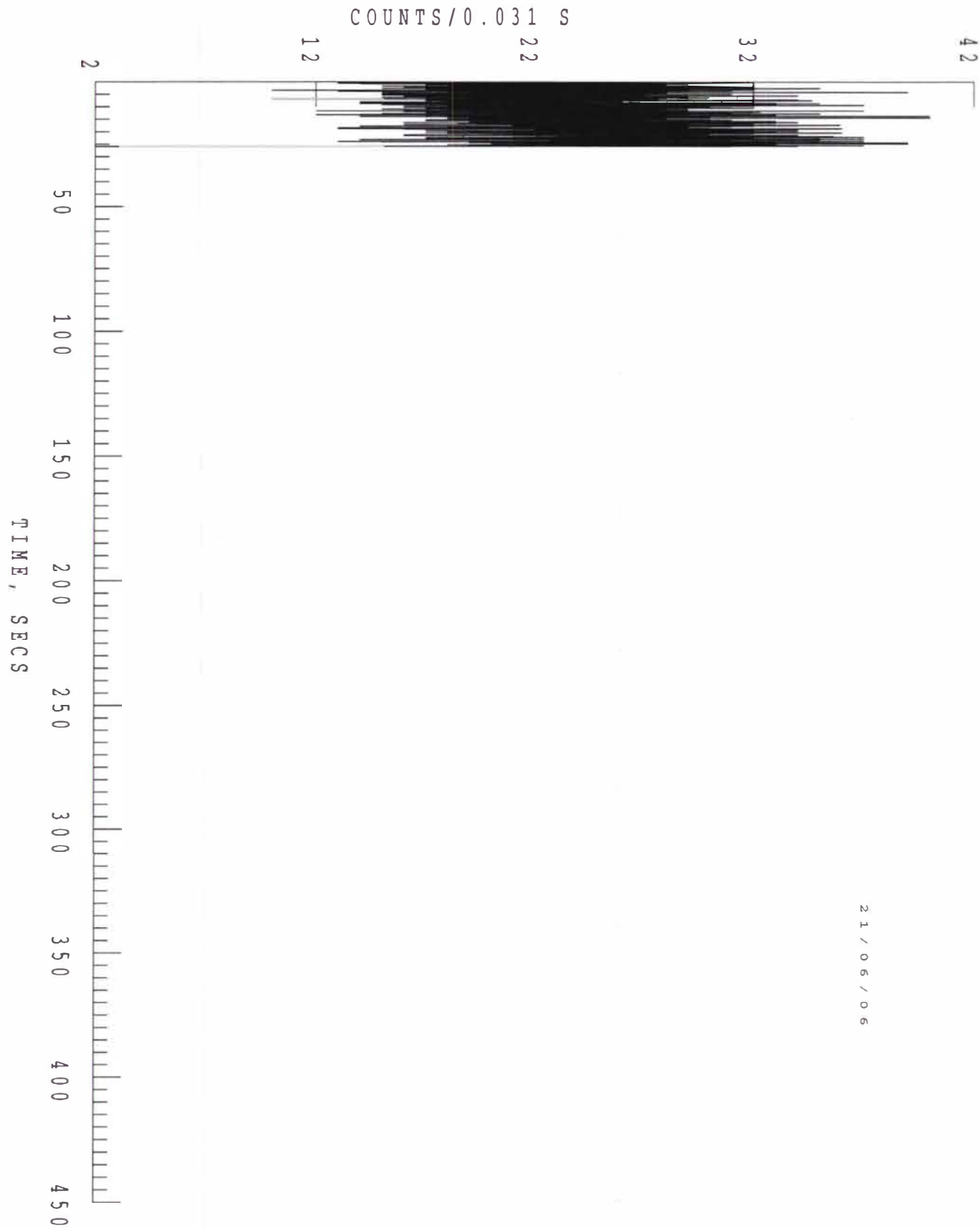
MS01 19/06/06 79421.173

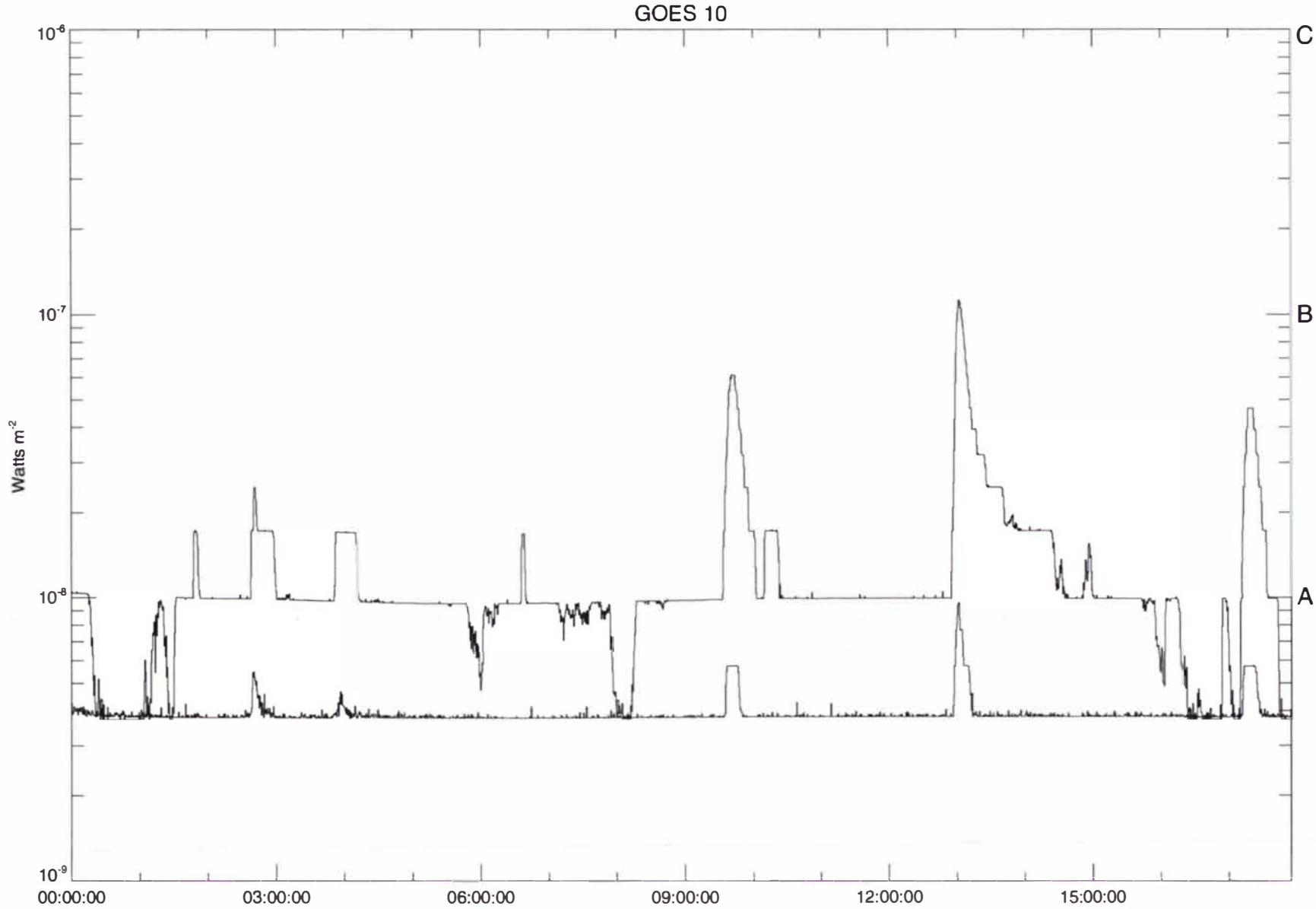
50- 3000 keV



HESSI 19/06/06 80532.000 (GHETE_9999_1_20060619_80732)

25- 150 keV





Data Start: 06/06/19, 0000:00 Plot created: 06/06/22, 0822
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED

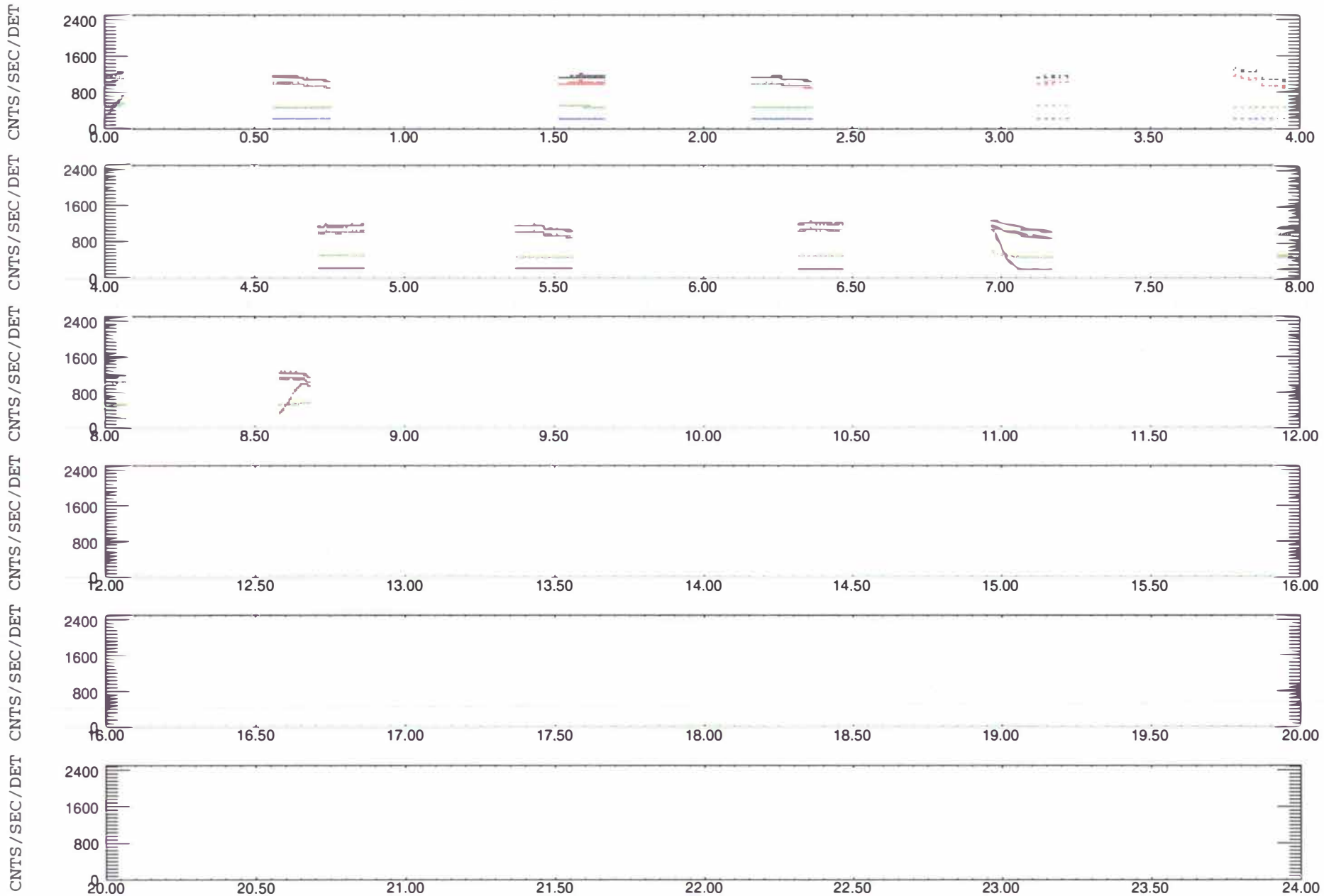
19/06/06 DOY 170 Julian 2453906.50000 [est. sct = 0019 d42f 7159 4441]

Chan 1:[E1=19 E2=103] Channel 1 + 800

Chan 2:[E3=18 E4=77] Channel 2 + 600

Chan 3:[E5=20 E6=509] Channel 3 + 400

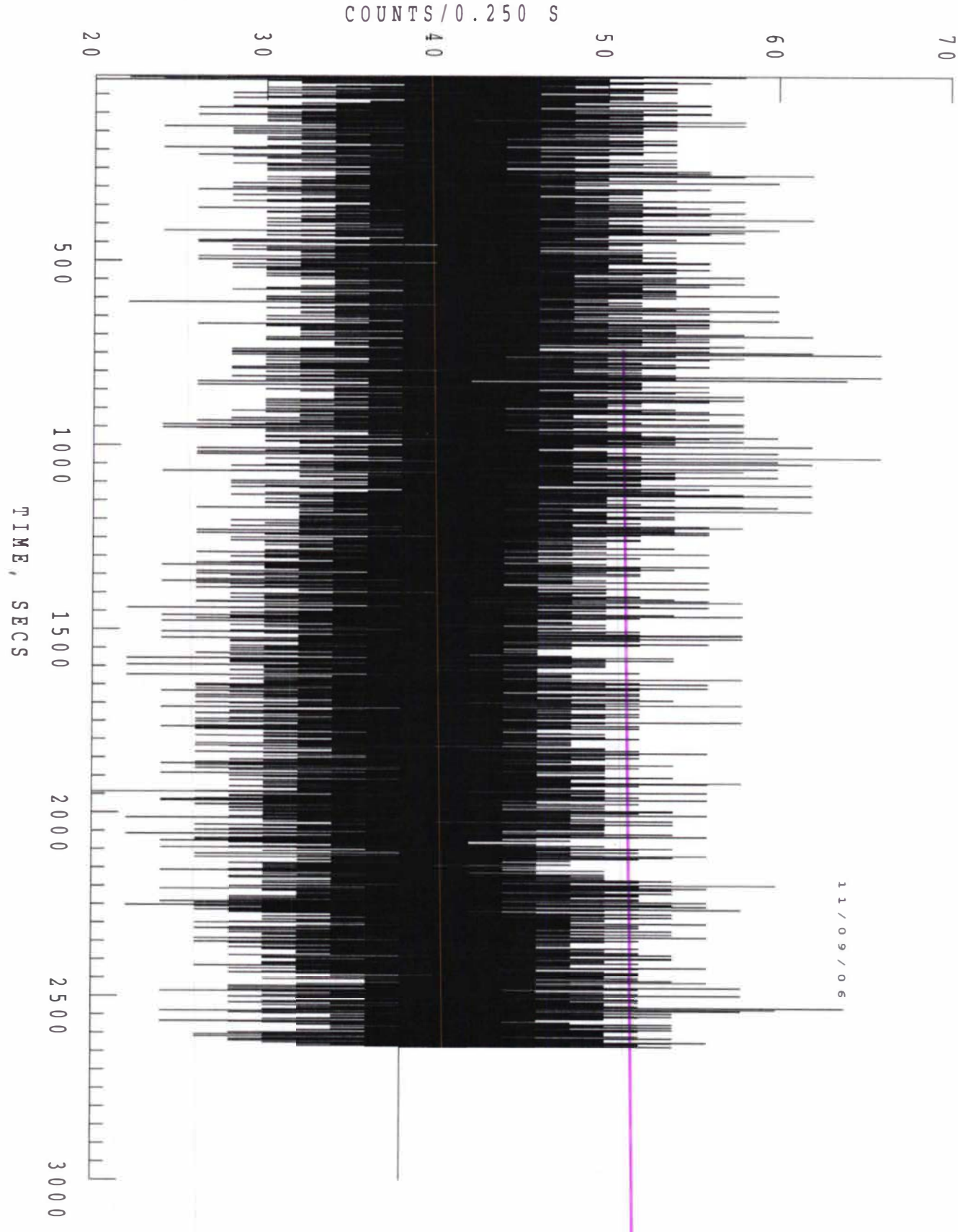
Chan 4:[E6=509 ->] Channel 4 + 200

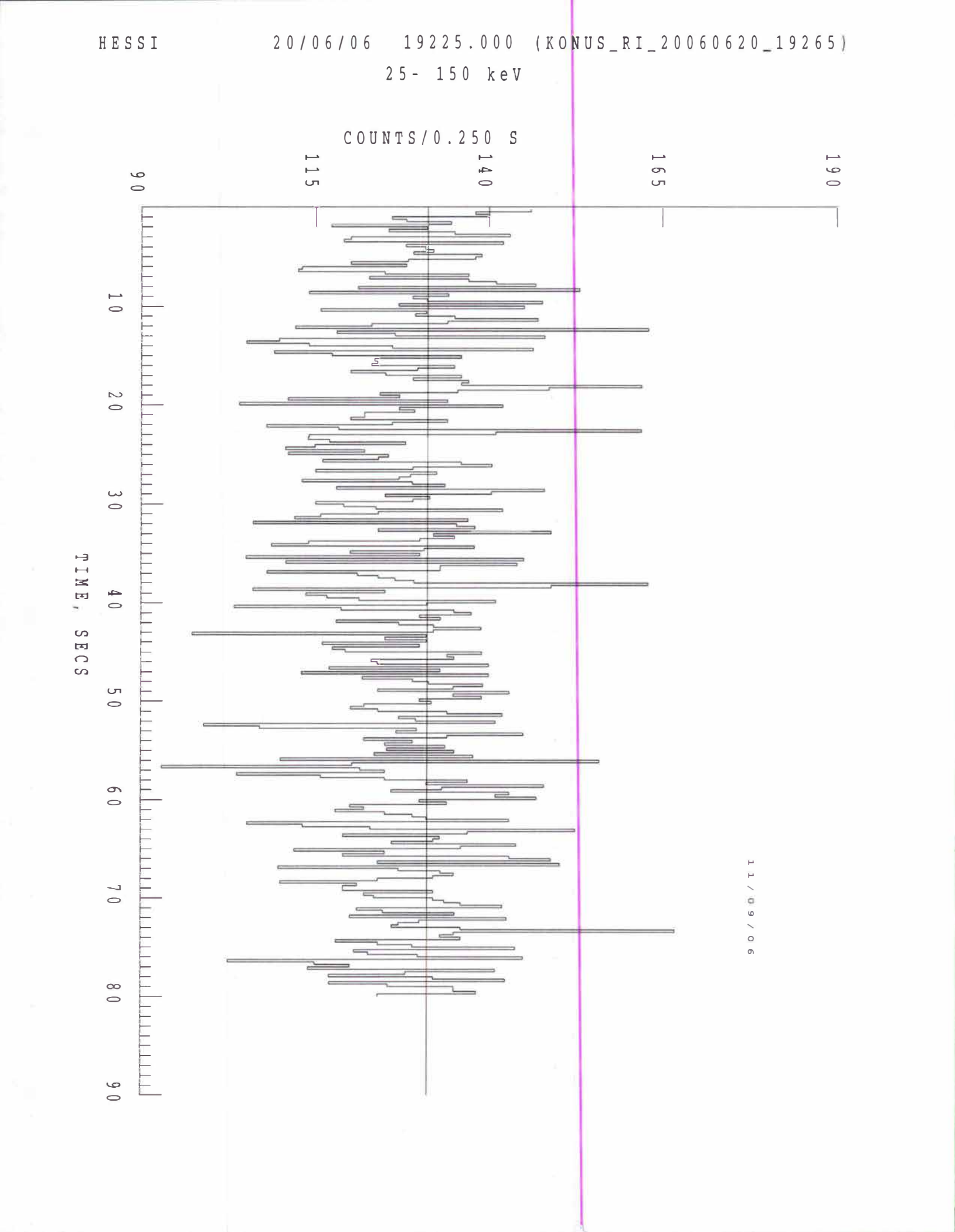


RS UT

MS01 20/06/06 17920.719

50- 3000 keV




HESSI 20/06/06 19225.000 (KONUS_RI_20060620_19265)
25- 150 keV
COUNTS/0.250 S
90
115
140
165
190
10
20
30
40
50
60
70
80
90
TIME, SECS
11/09/06

FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED

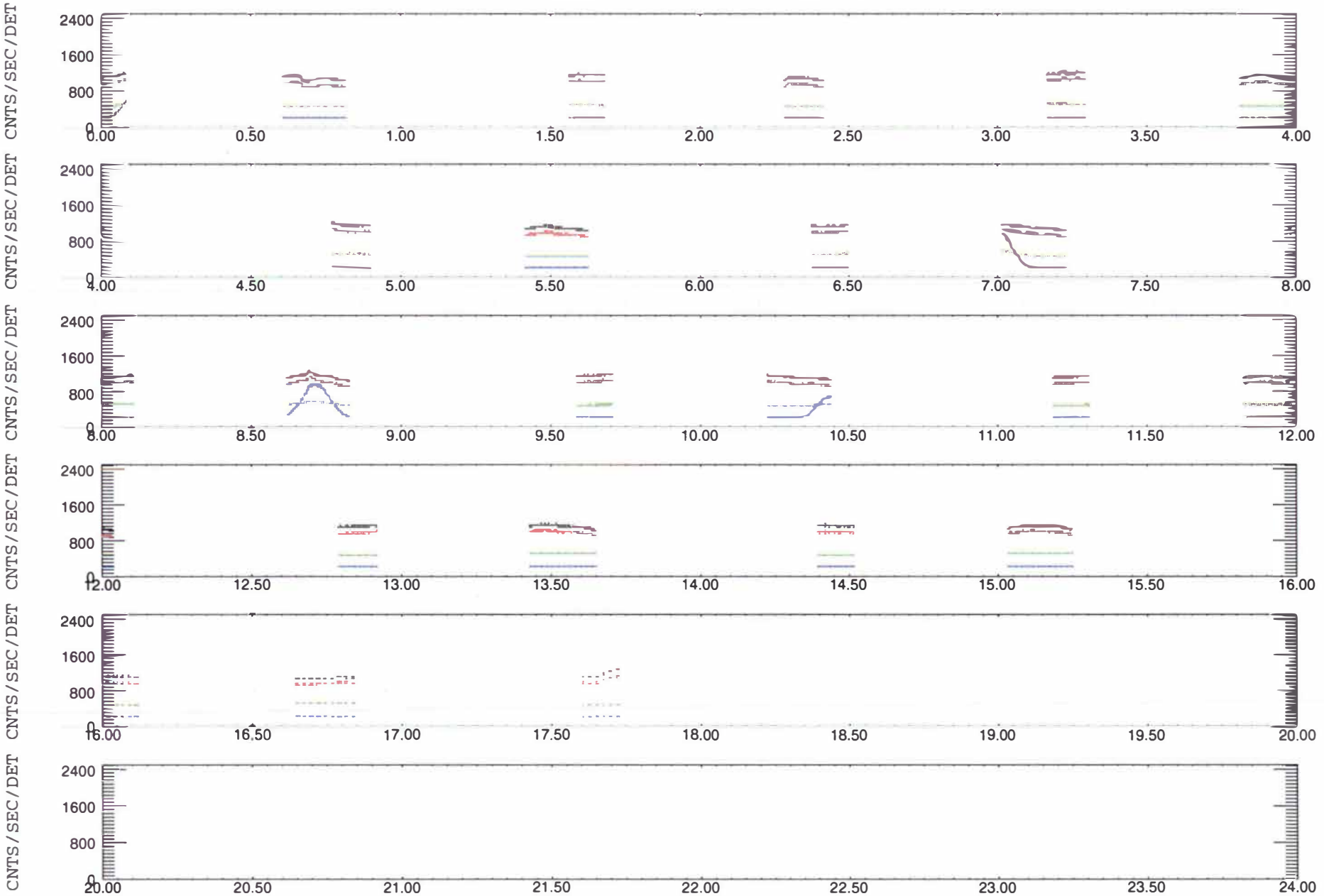
20/06/06 DOY 171 Julian 2453907.50000 [est. sct = 0019 d443 8f32 068f]

Chan 1:[E1=19 E2=103] Channel 1 + 800

Chan 2:[E3=18 E4=77] Channel 2 + 600

Chan 3:[E5=19 E6=509] Channel 3 + 400

Chan 4:[E6=509 ->] Channel 4 + 200



RS UT

Date: Jun 29 2010

BURST TRIANGULATION CHECKLIST

1. Suzaku Data

☐ 1 second timing error corrected? (Jan 1 – Apr 24 2009)

2. AGILE Data

☐ 1 second timing error corrected?

3. MESSENGER Data

☐ Coarse or fine oscillator?

☐ 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)

☐ 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

☐ Σ 3Δt'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?

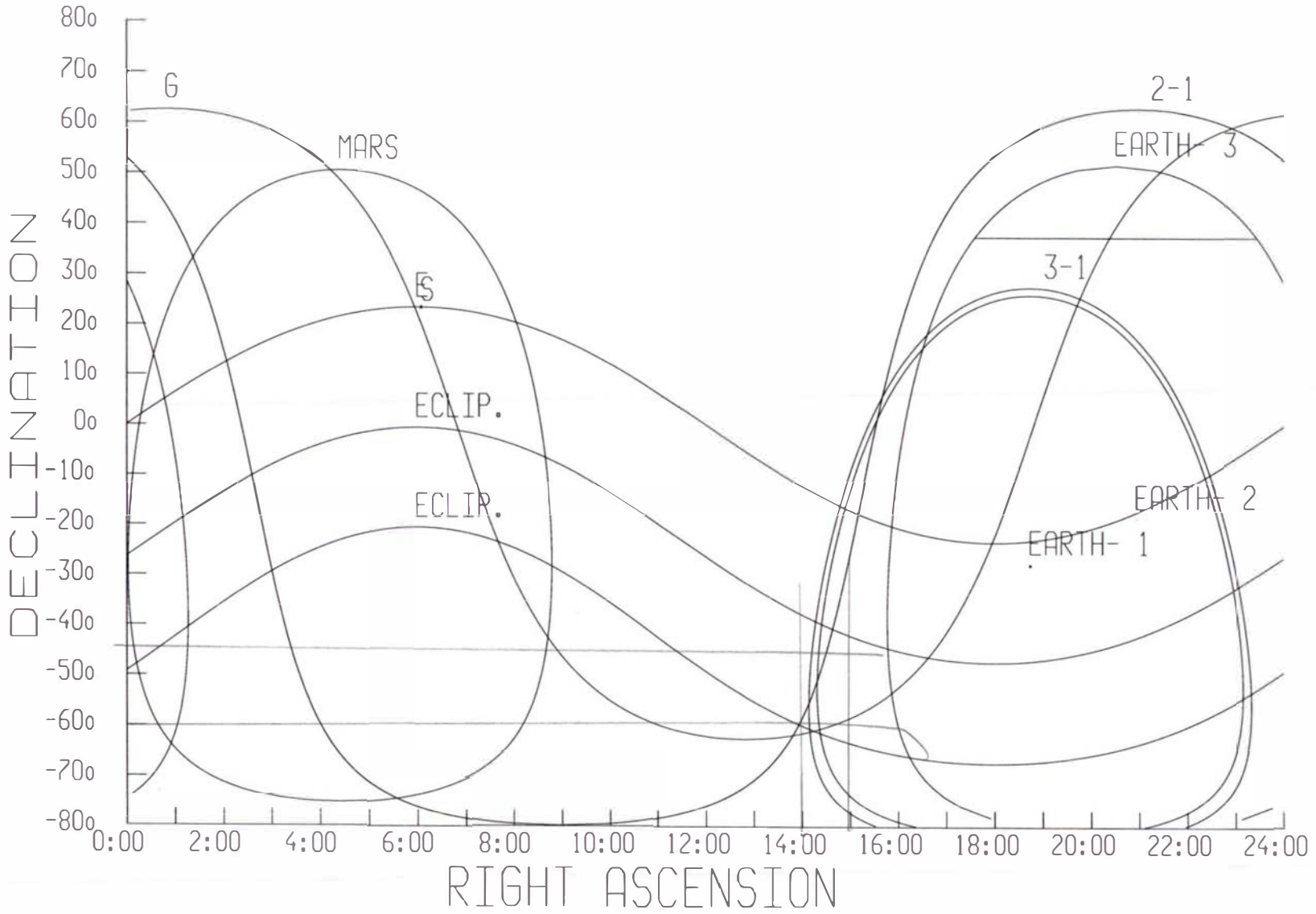
☐ Updated ephemeris used for bursts prior to September 30, 2003?

☑ ACCESS and MBL4 databases updated, with identical times?

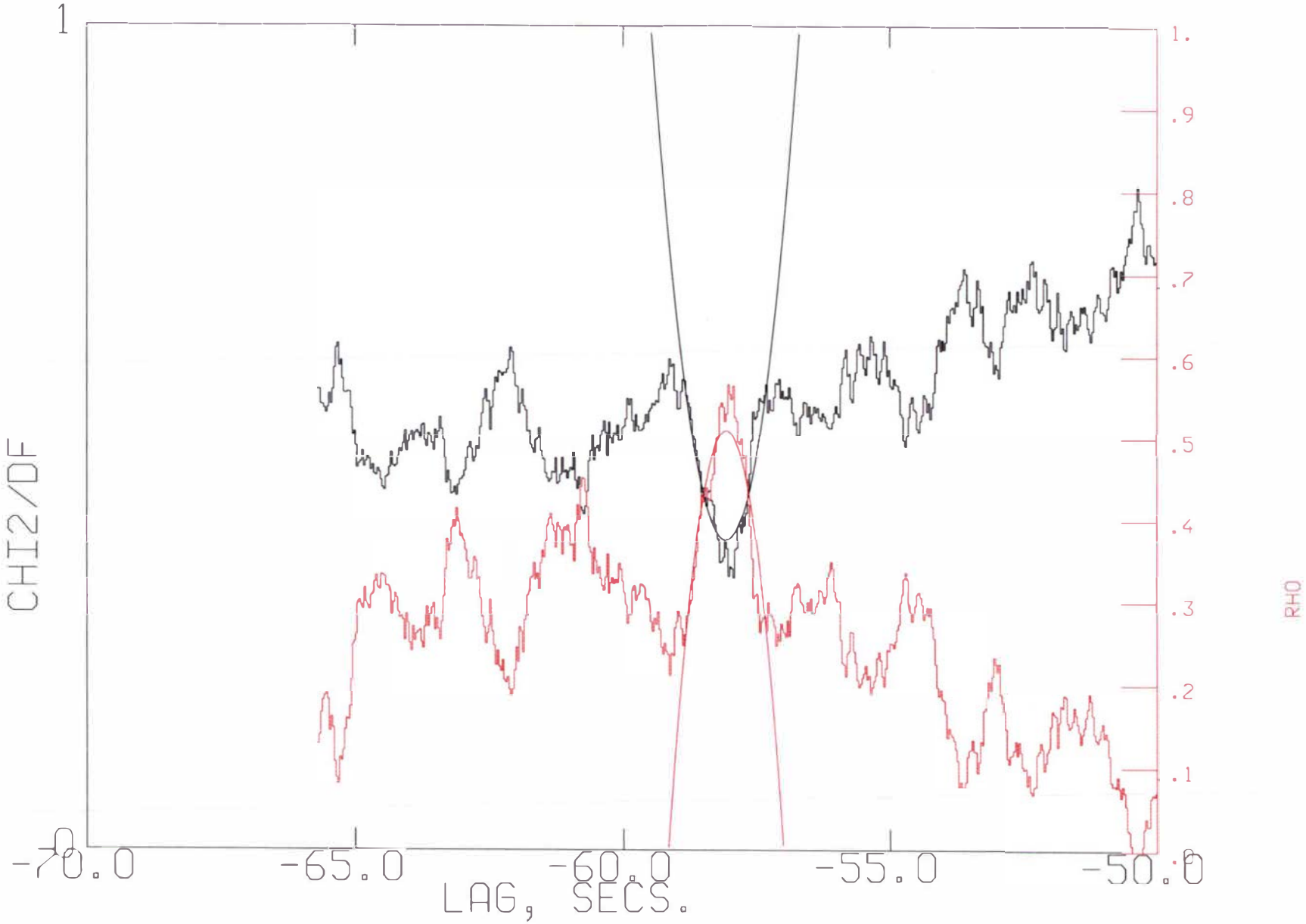
EVENT OF JUN 22, 2006 17:19

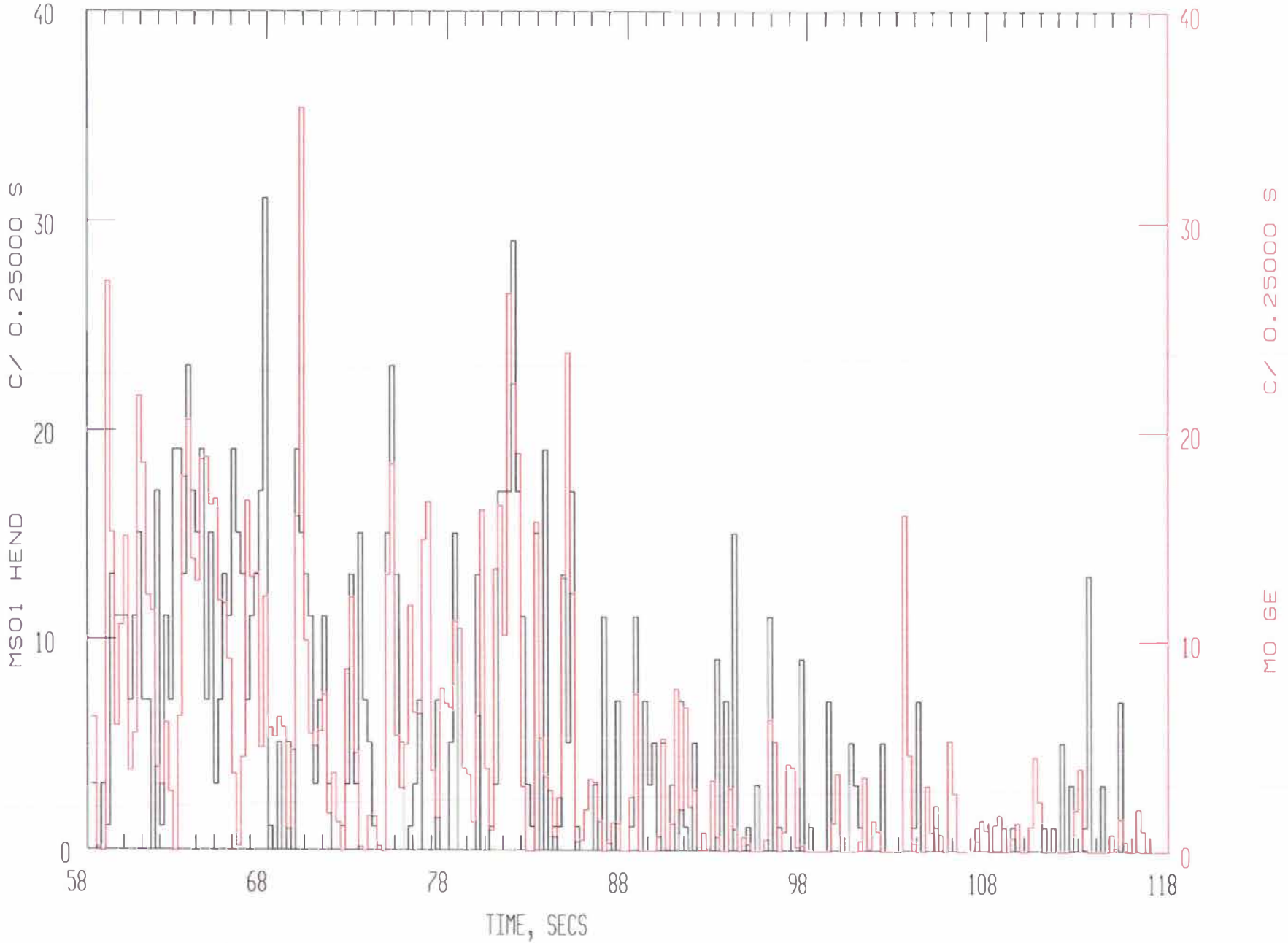
29/06/2010

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

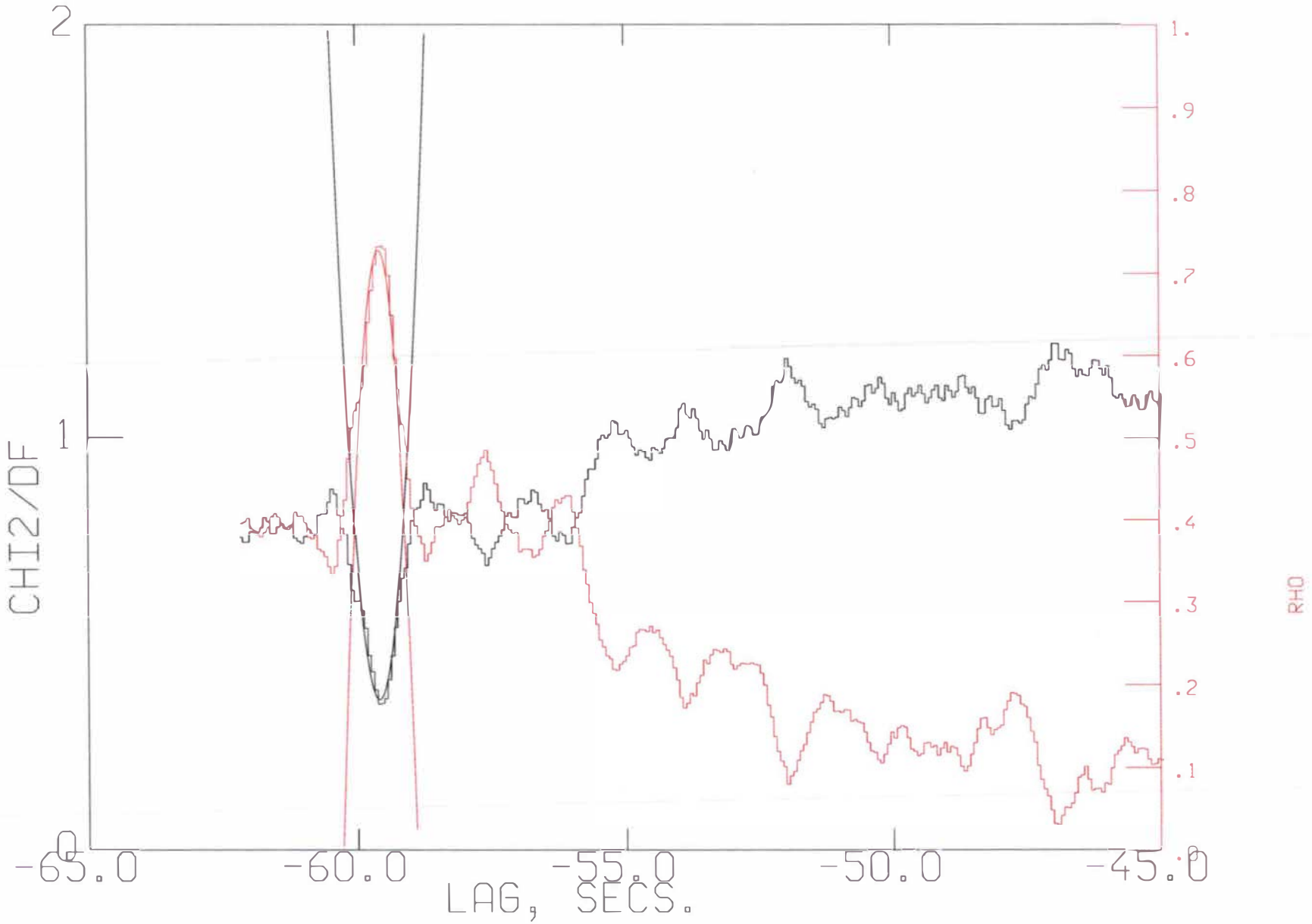


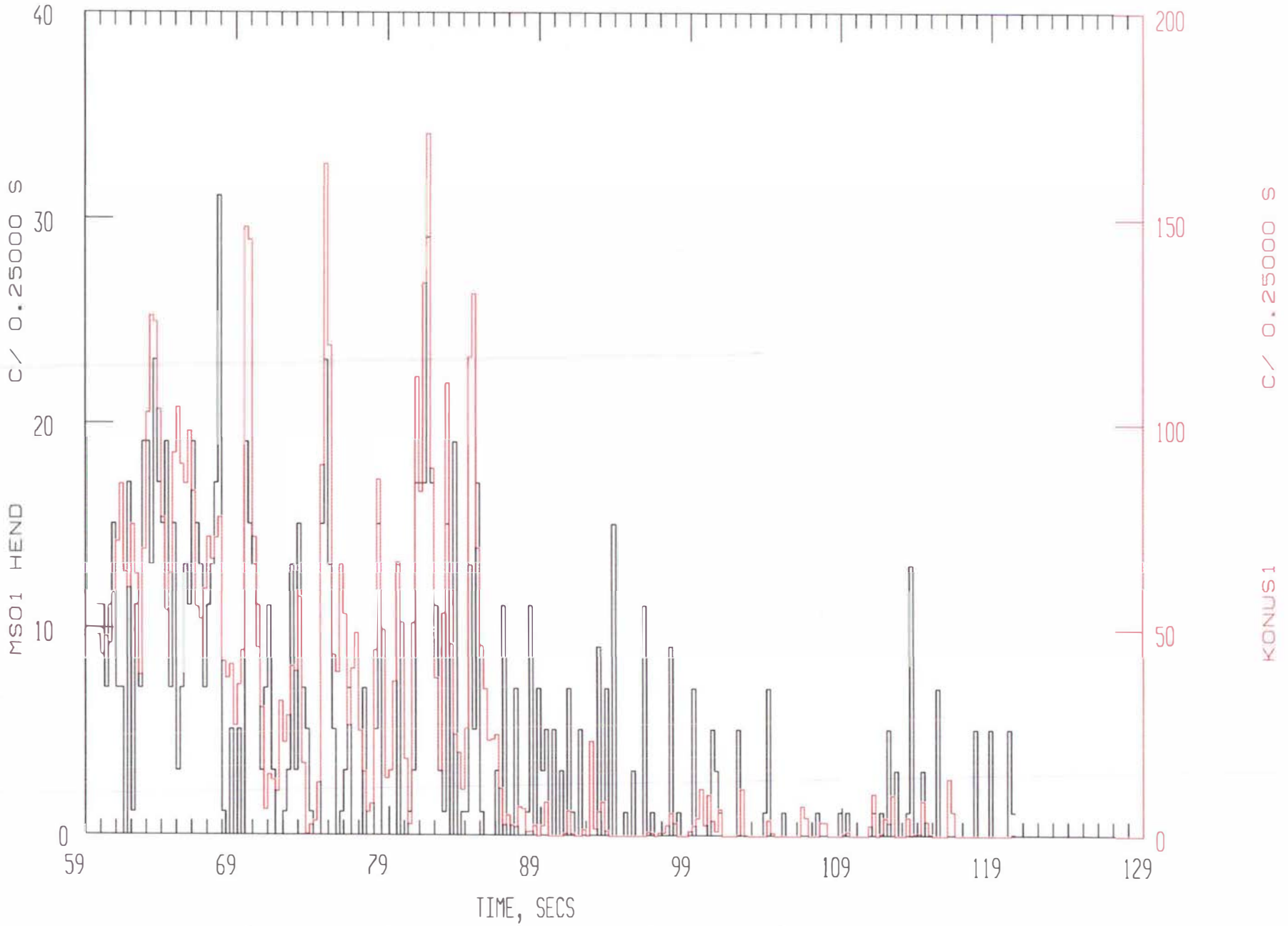
MSO1 HEND -MO GE CORRELATION 22/06/06 62496.773



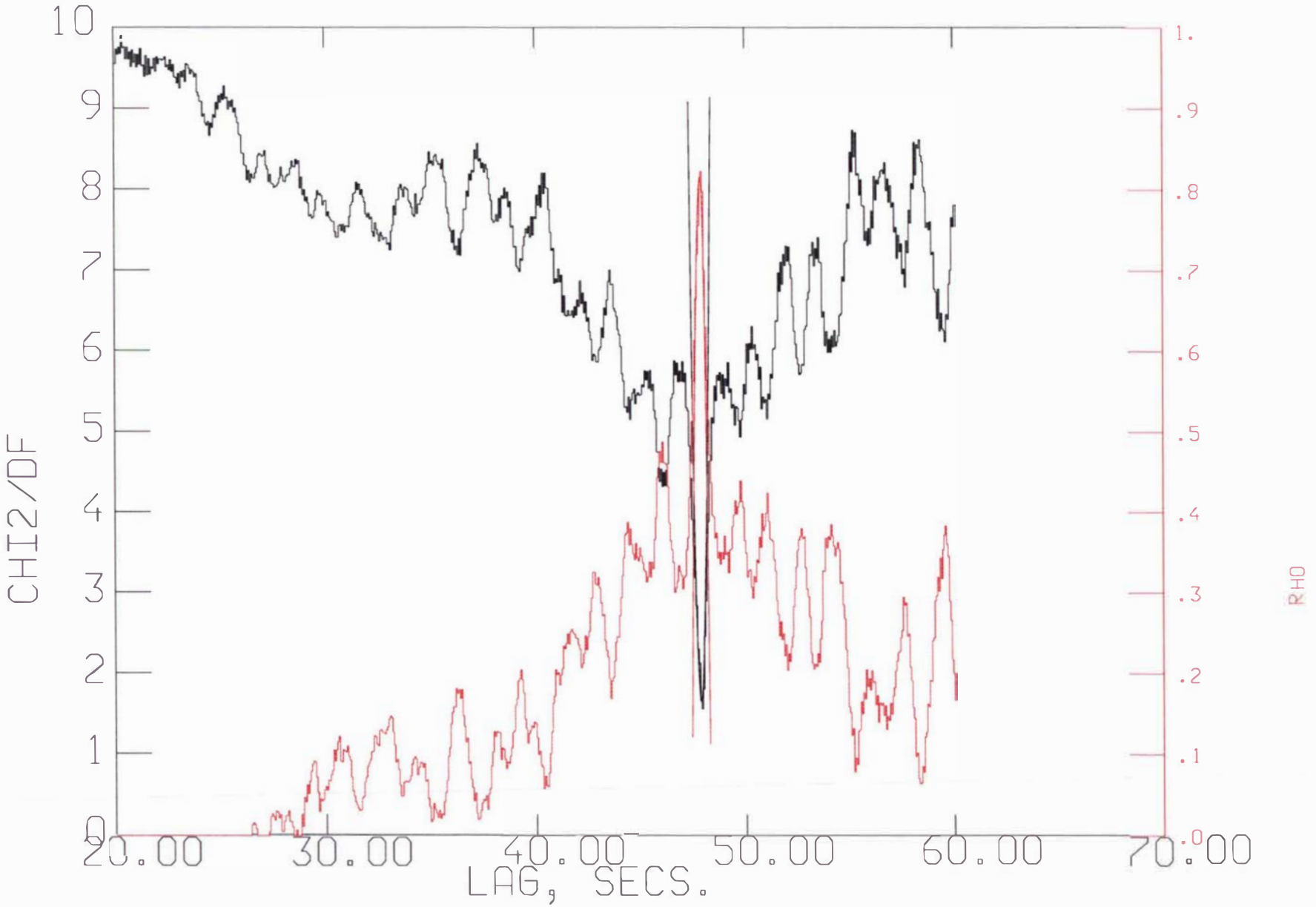

40
30
20
10
0
C/ 0.25000 S
MSO1 HEND
58
68
78
88
98
108
118
TIME, SECS
MO GE

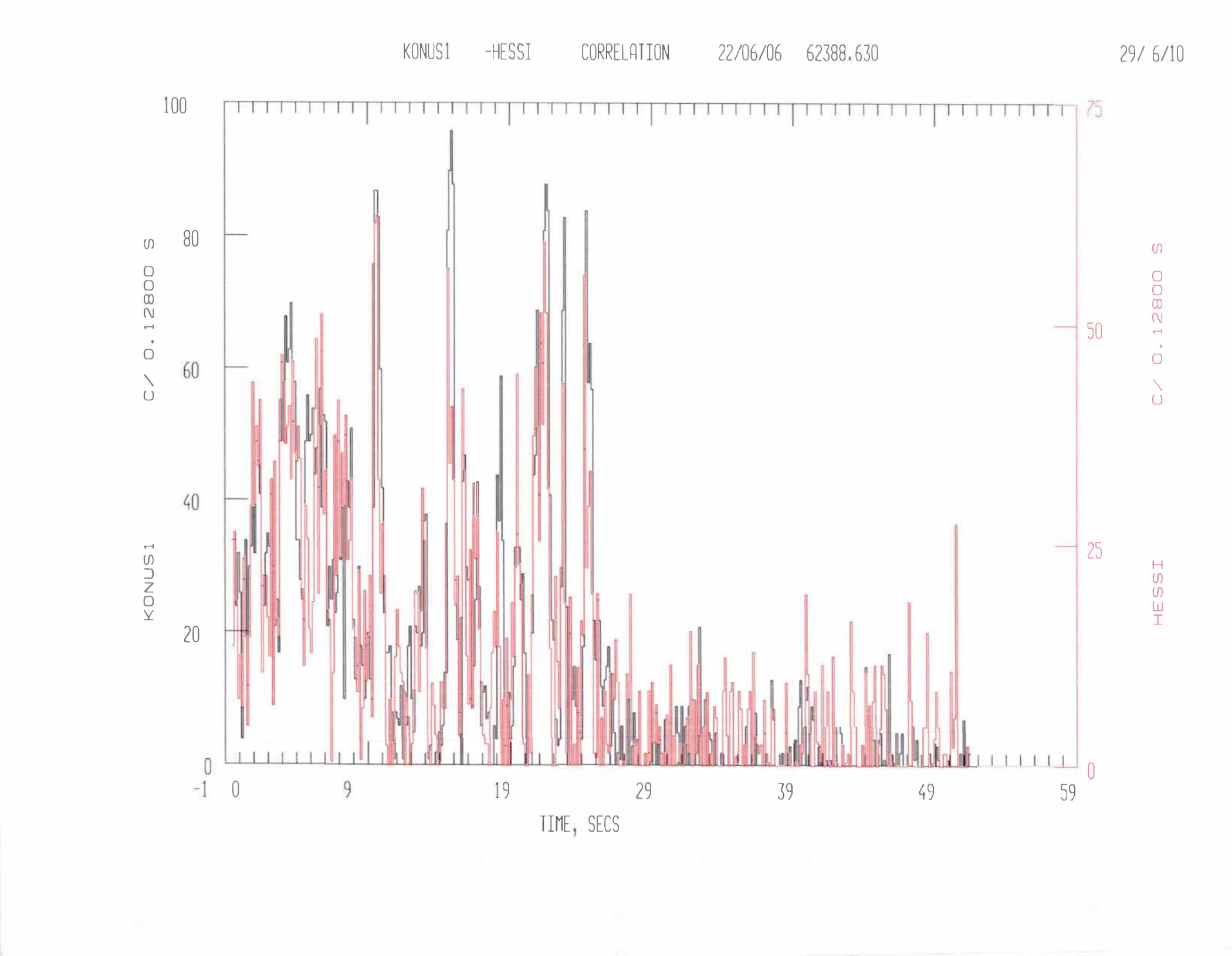
MSO1 HEND -KONUS1 CORRELATION 22/06/06 62496.773



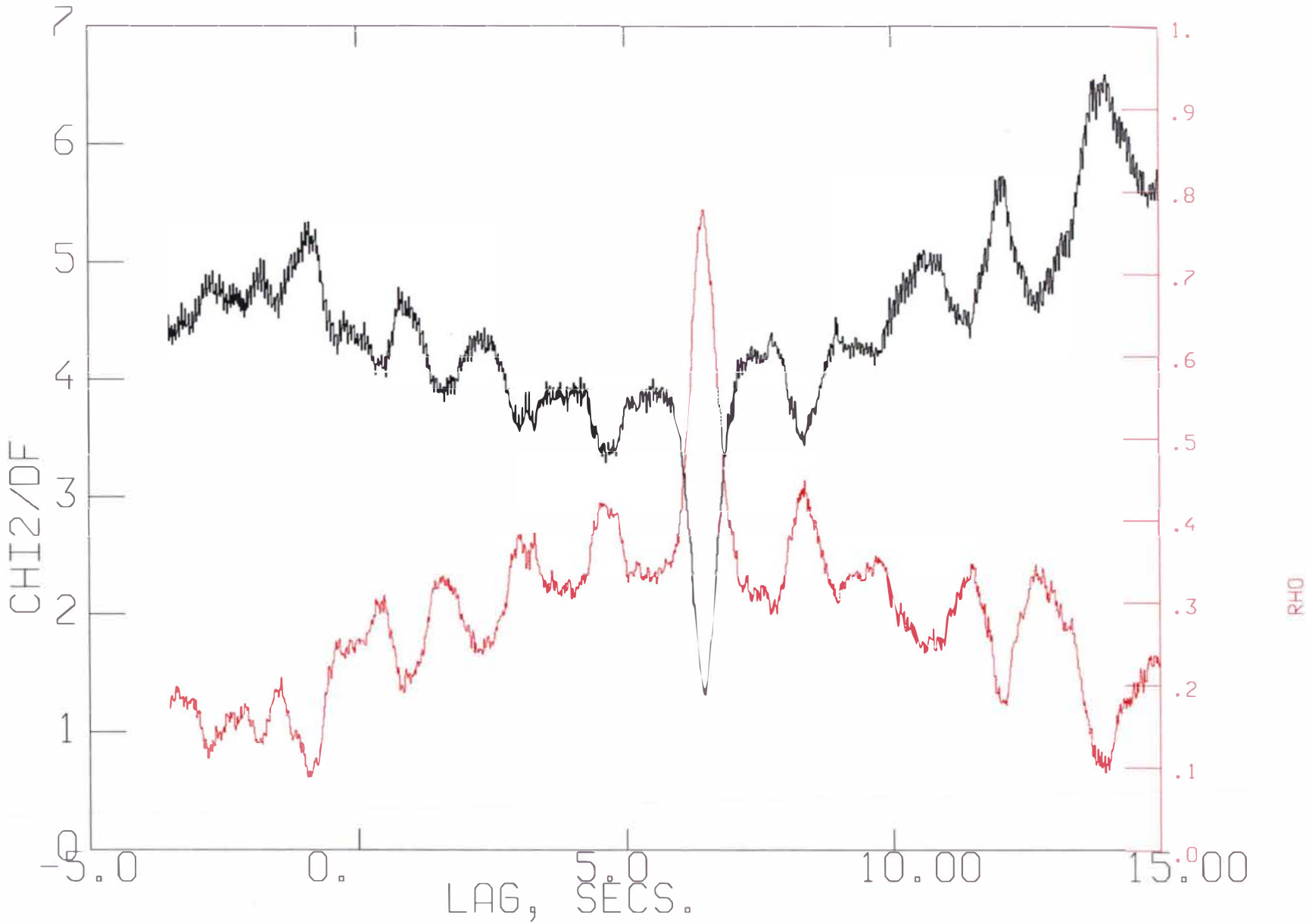

40
30
20
10
0
C/ 0.25000 S
MSO1 HEND
200
150
100
50
0
C/ 0.25000 S
KONUS1
59
69
79
89
99
109
119
129
TIME, SECS

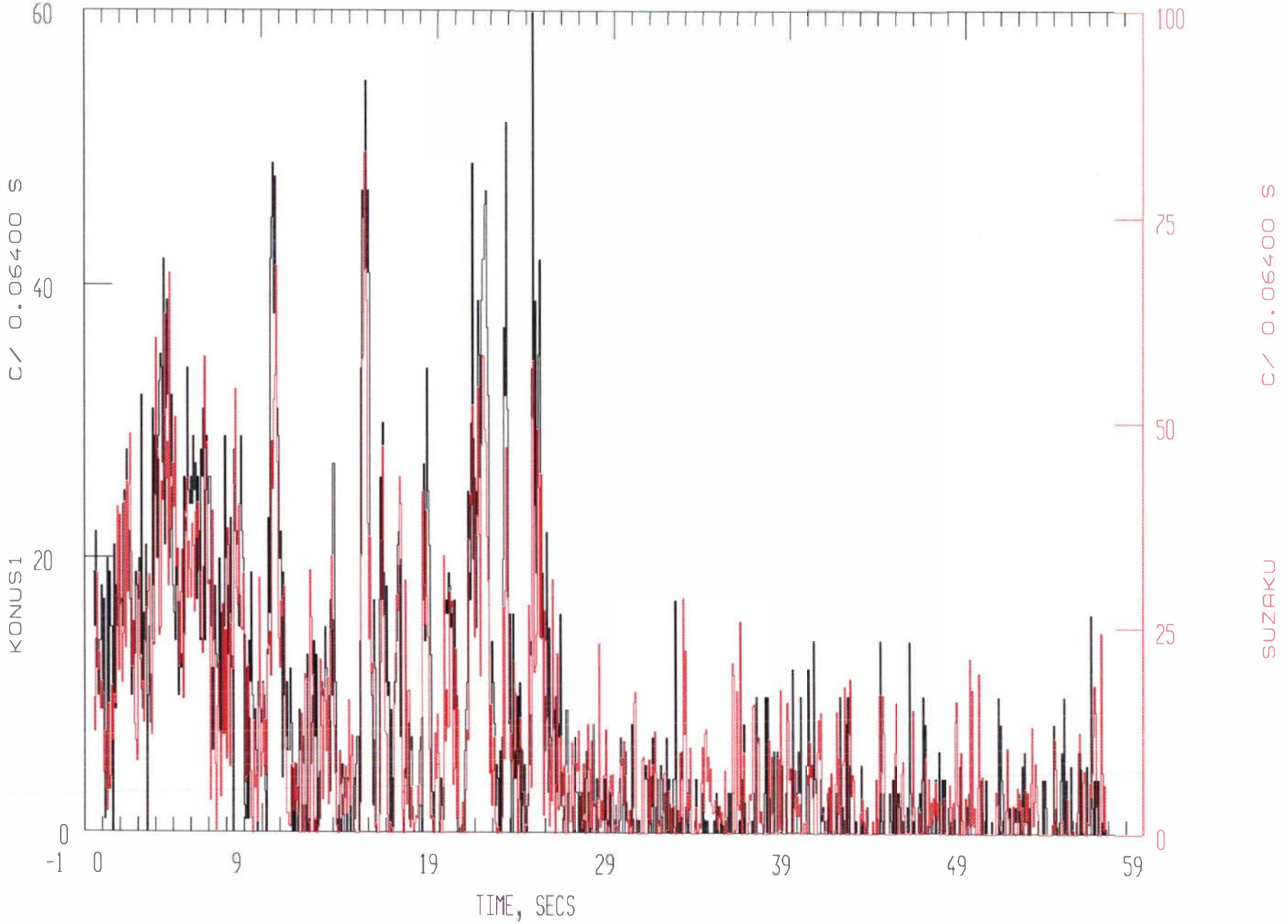
KONUS1 -HESSI CORRELATION 22/06/06 62388.630



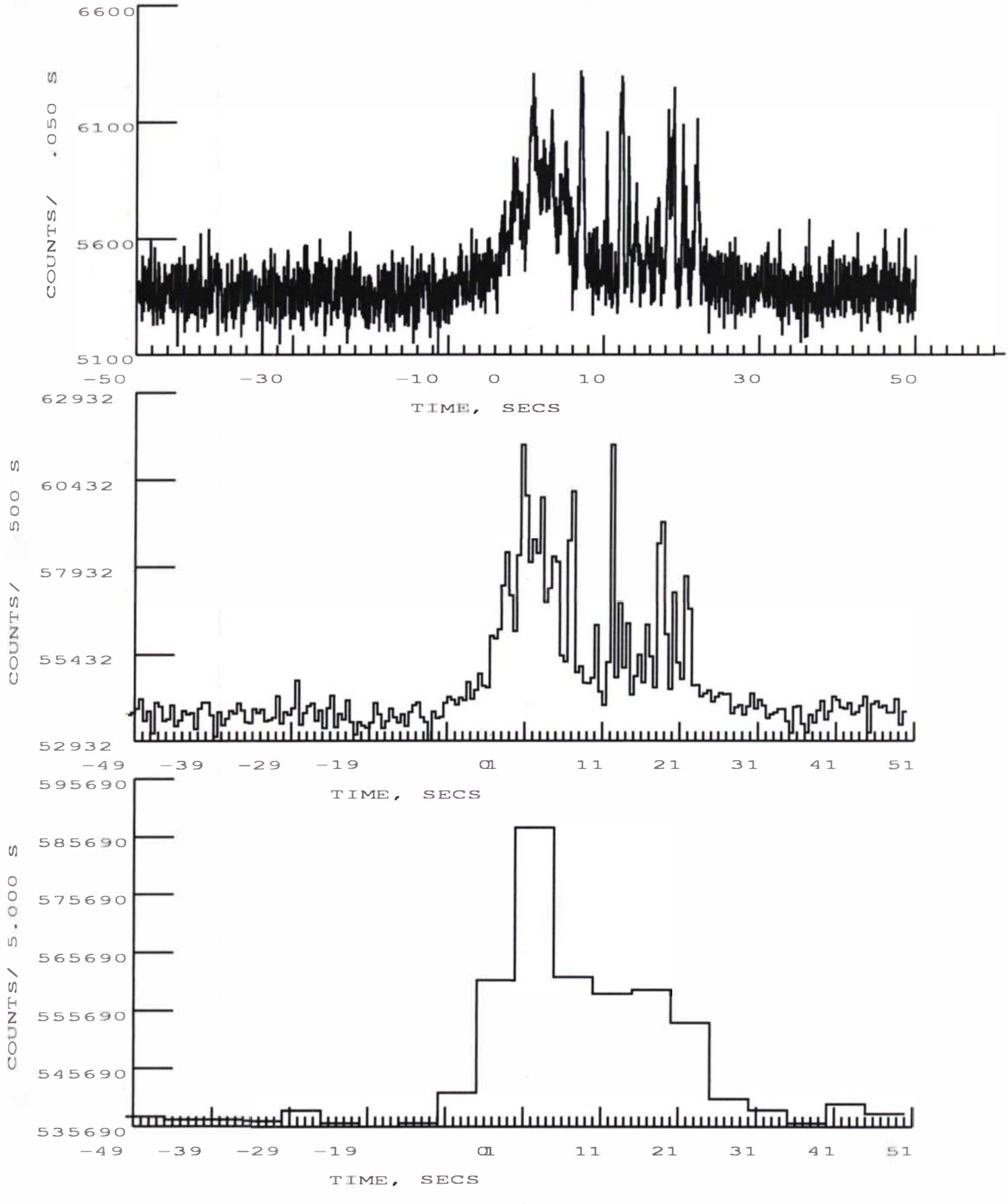

KONUS1 -HESSI CORRELATION 22/06/06 62388.630
29/ 6/10
100
80
60
40
20
0
-1
0
9
19
29
39
49
59
75
50
25
0
C/ 0.12800 S
KONUS1
C/ 0.12800 S
HESSI
TIME, SECS

KONUS1 -SUZAKU CORRELATION 22/06/06 62388.630




60
40
20
0
-1
0
9
19
29
39
49
59
C/ 0.06400 S
KONUS1
100
75
50
25
0
C/ 0.06400 S
SUZAKU
TIME, SECS

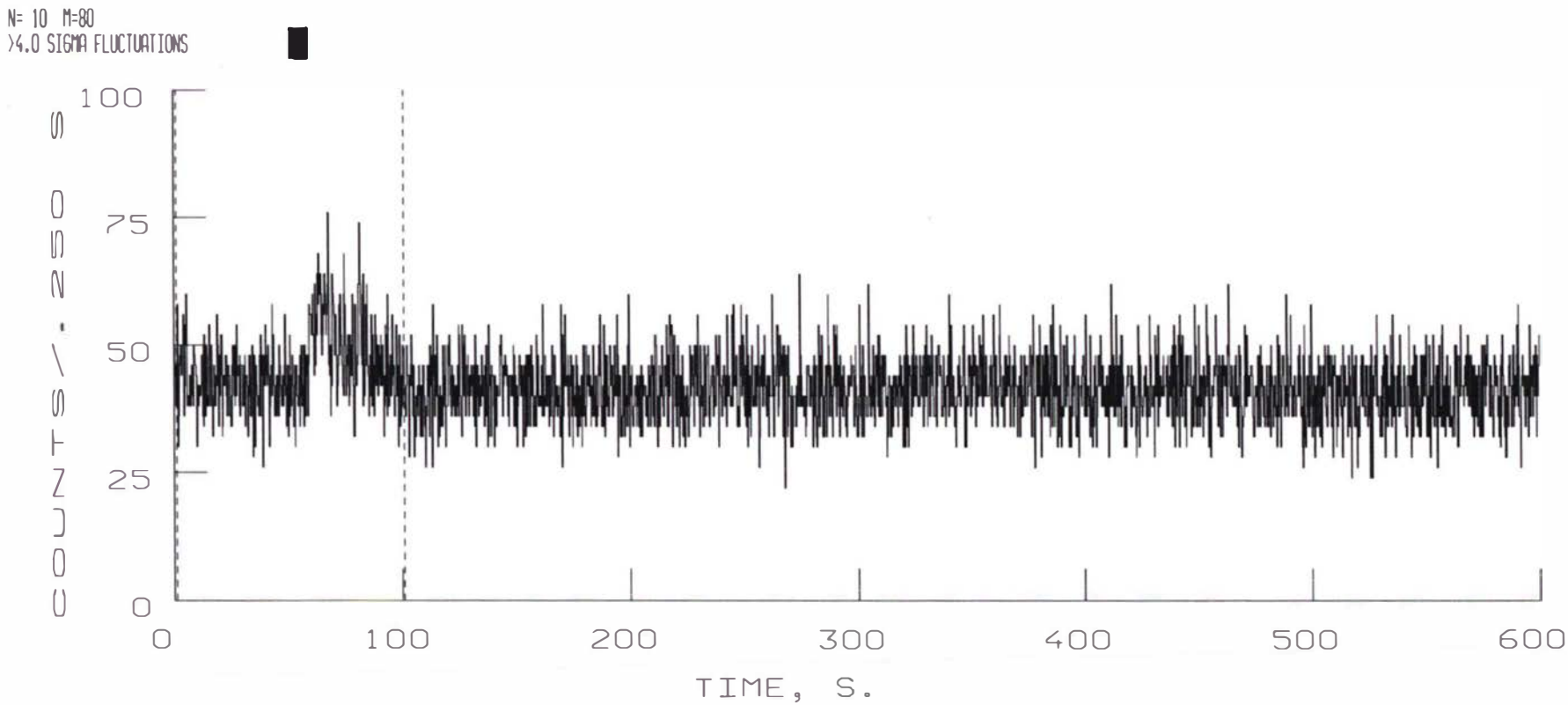
INTEGRAL 22/06/06 62388.000 17:19:48.0 11/07/14



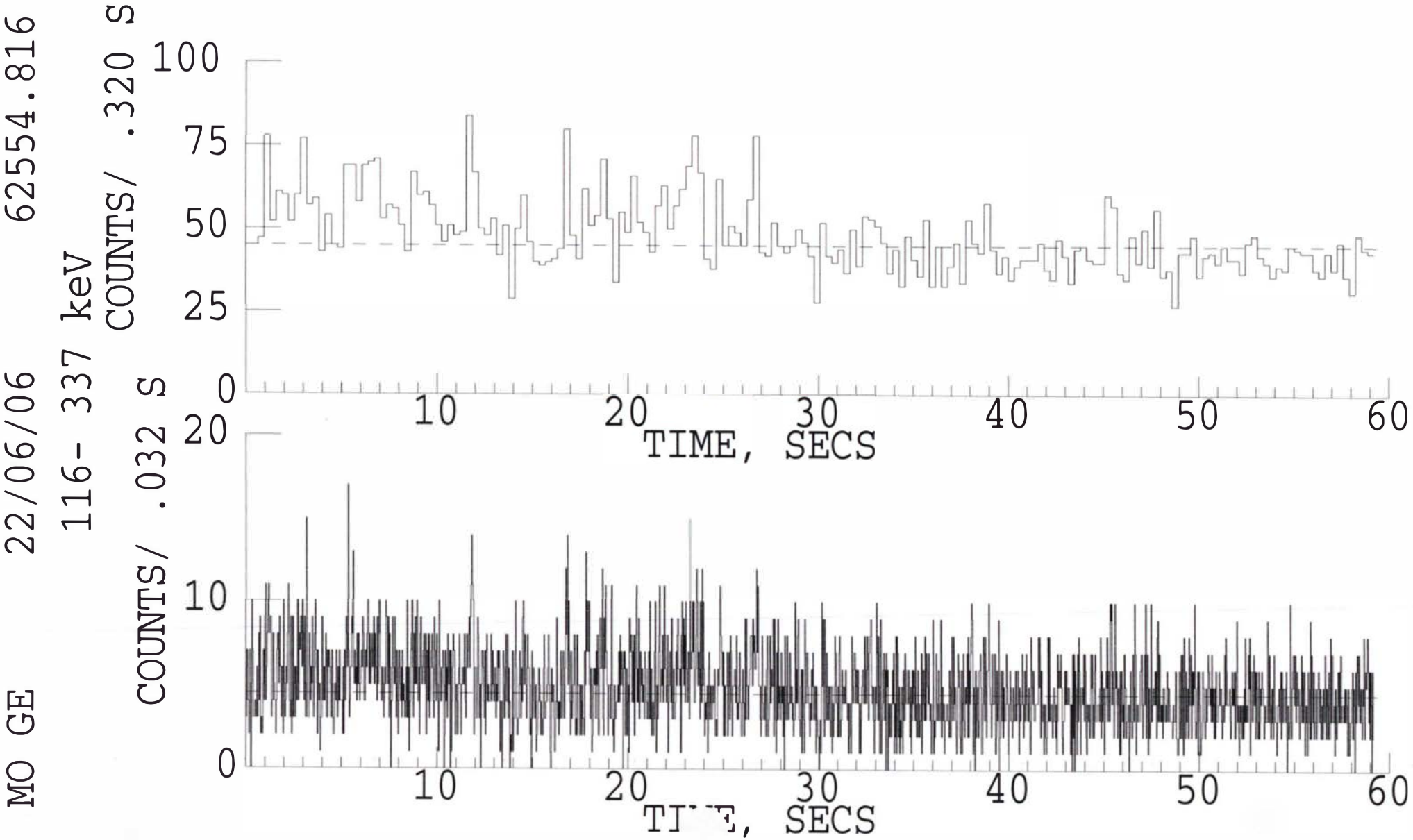
MS01 HEND 29/06/2010

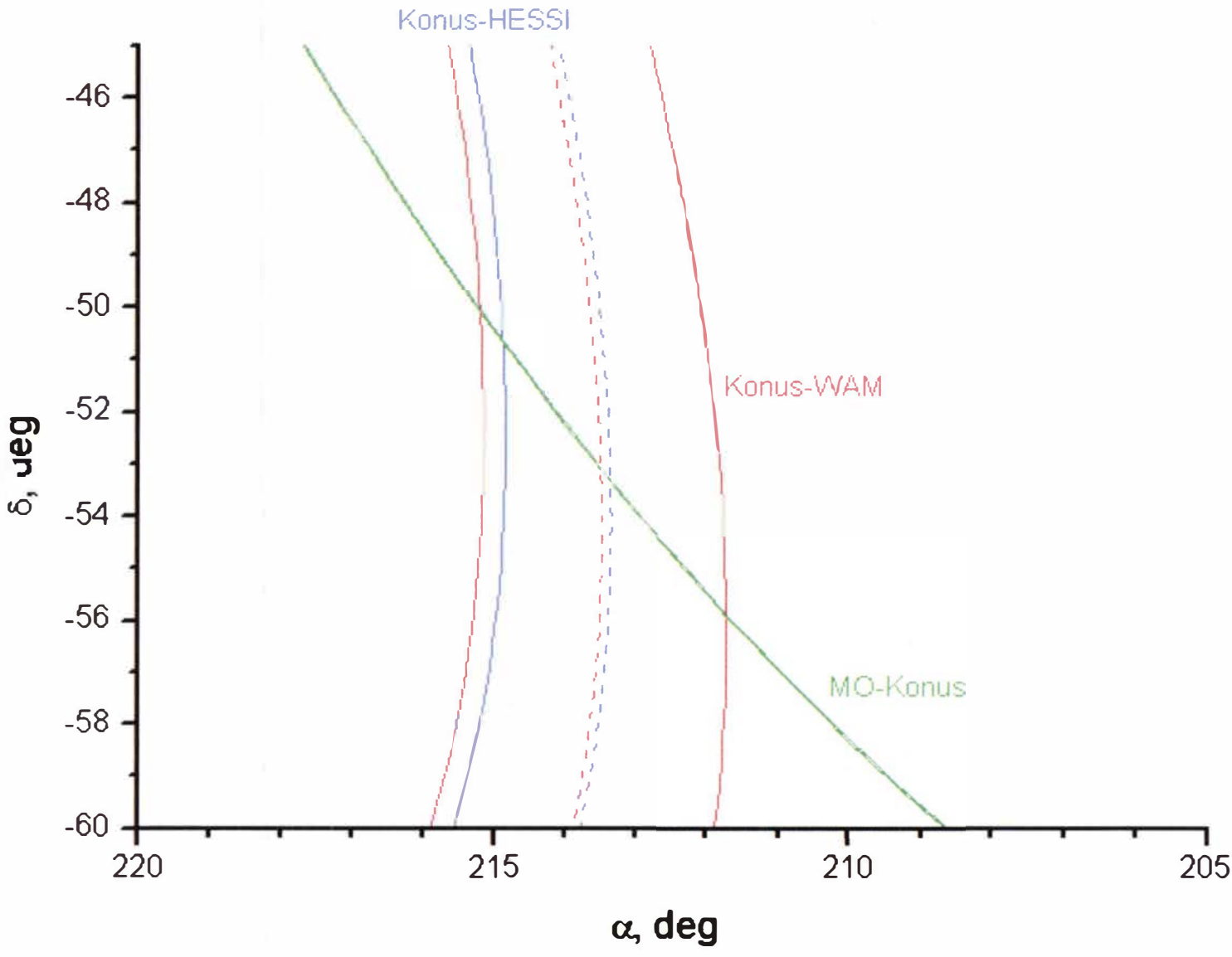
22/06/2006 62496.773 s

50-3000 keV



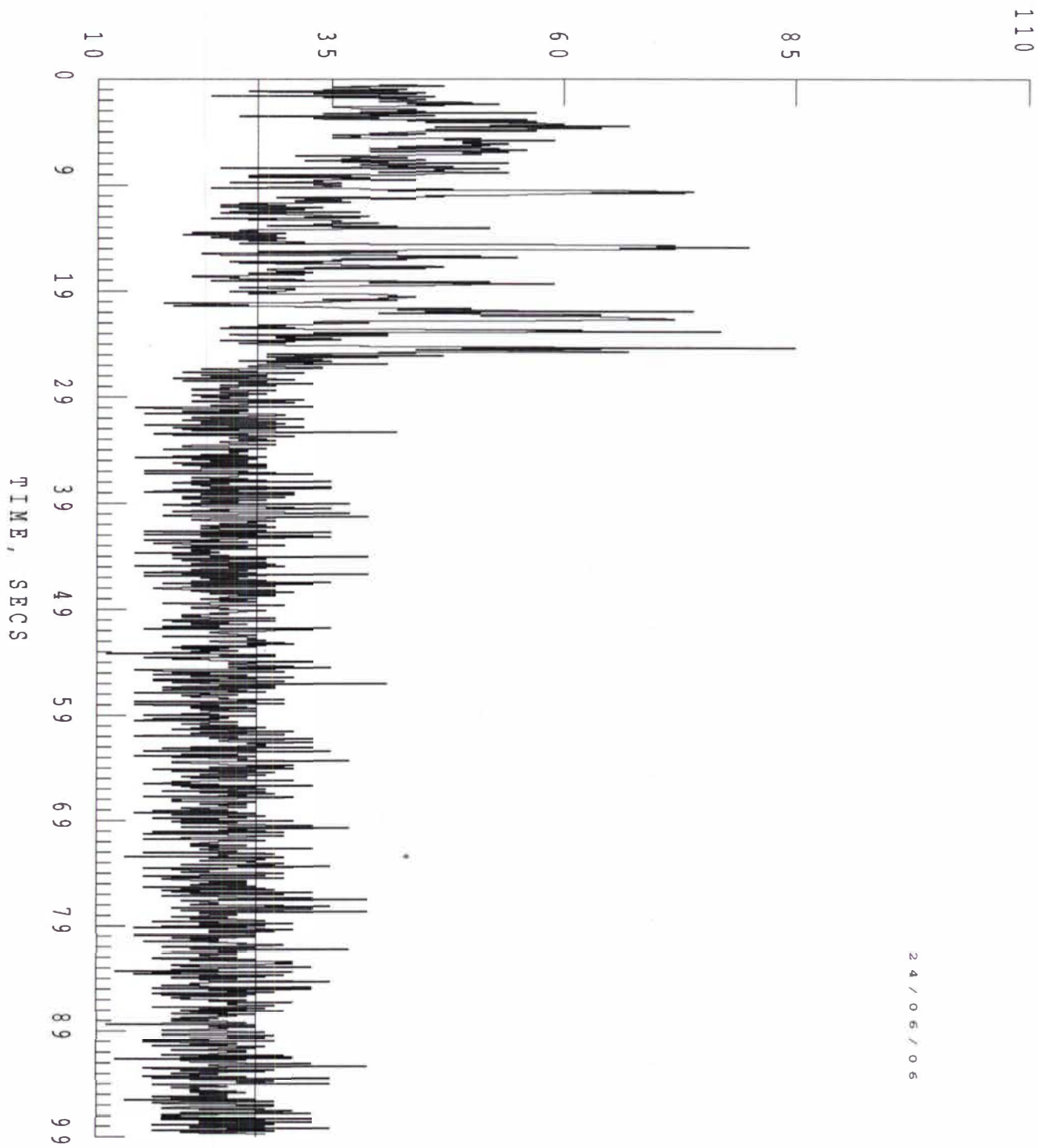
29/06/2010

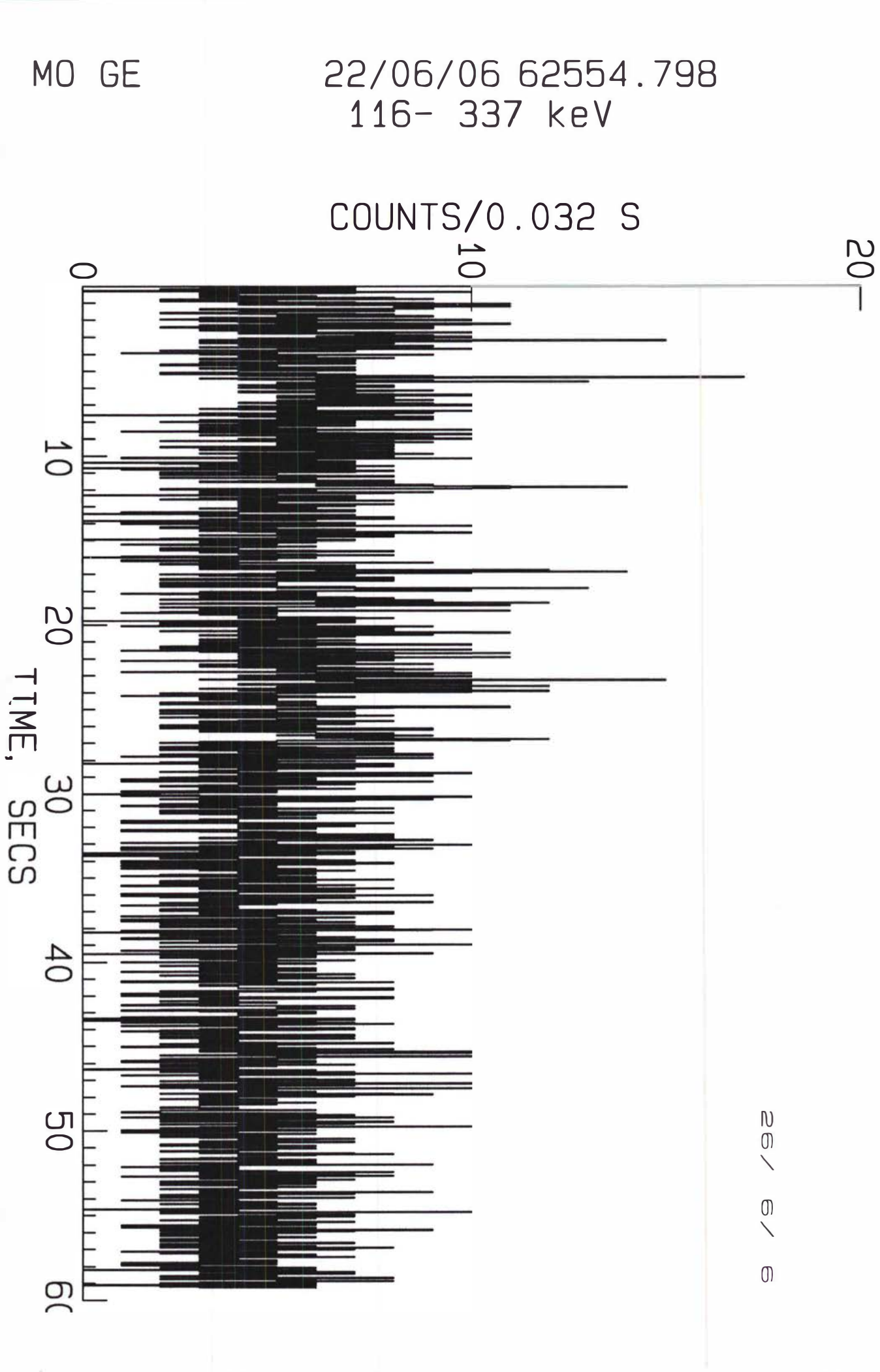

MO GE 22/06/06 62554.816
116- 337 keV
COUNTS/ .320 S
100
75
50
25
0
10
20
30
40
50
60
TIME, SECS
COUNTS/ .032 S
20
10
0
10
20
30
40
50
60
TIME, SECS


Konus-HESSI
Konus-WAM
MO-Konus
-46
-48
-50
-52
-54
-56
-58
-60
δ, ueg
220
215
210
205
α, deg

KONUS1 22/06/06 62388.630

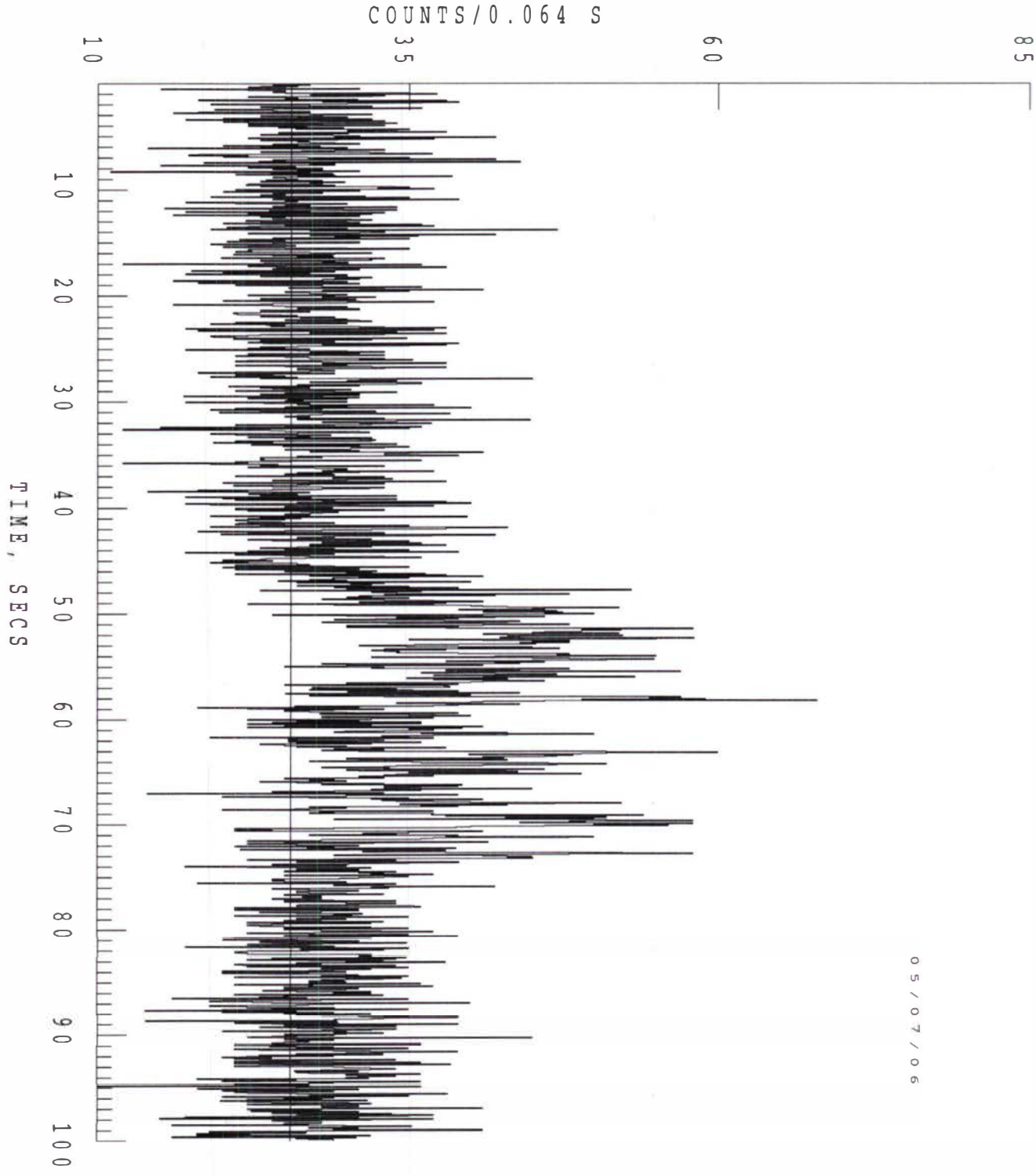
50- 200 keV 17:19:48




MO GE
22/06/06 62554.798
116- 337 keV
COUNTS/0.032 S
0
10
20
TIME, SECS
0
10
20
30
40
50
60
26/ 6/ 6

HESSI 22/06/06 62337.000 (konus_20060622_62388)

50- 200 keV



From jayc@milkyway.gsfc.nasa.gov Mon Jun 26 05:07:00 2006
X-ASG-Debug-ID: 1151323651-2ffa00050000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: milkyway.gsfc.nasa.gov[128.183.16.143]
X-Barracuda-Start-Time: 1151323651
X-ASG-Whitelist: Sender
Mime-Version: 1.0
X-Sender: jayc@lheapop.gsfc.nasa.gov
Date: Mon, 26 Jun 2006 08:05:58 -0400
To: "val" <val@mail.ioffe.ru>, "Kevin Hurley" <khurley@ssl.berkeley.edu>,
"Kazutaka Yamaoka" <yamaoka@phys.aoyama.ac.jp>,
"Roland Vanderspek" <roland@space.mit.edu>,
<ohno@hirax7.hepl.hiroshima-u.ac.jp>,
"Hans Krimm" <krimm@milkyway.gsfc.nasa.gov>,
"Sergey Golenetskii" <golen@mail.ioffe.ru>
From: Jay Cummings <jayc@milkyway.gsfc.nasa.gov>
X-ASG-Orig-Subj: Re: long GRB 060622
Subject: Re: long GRB 060622
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

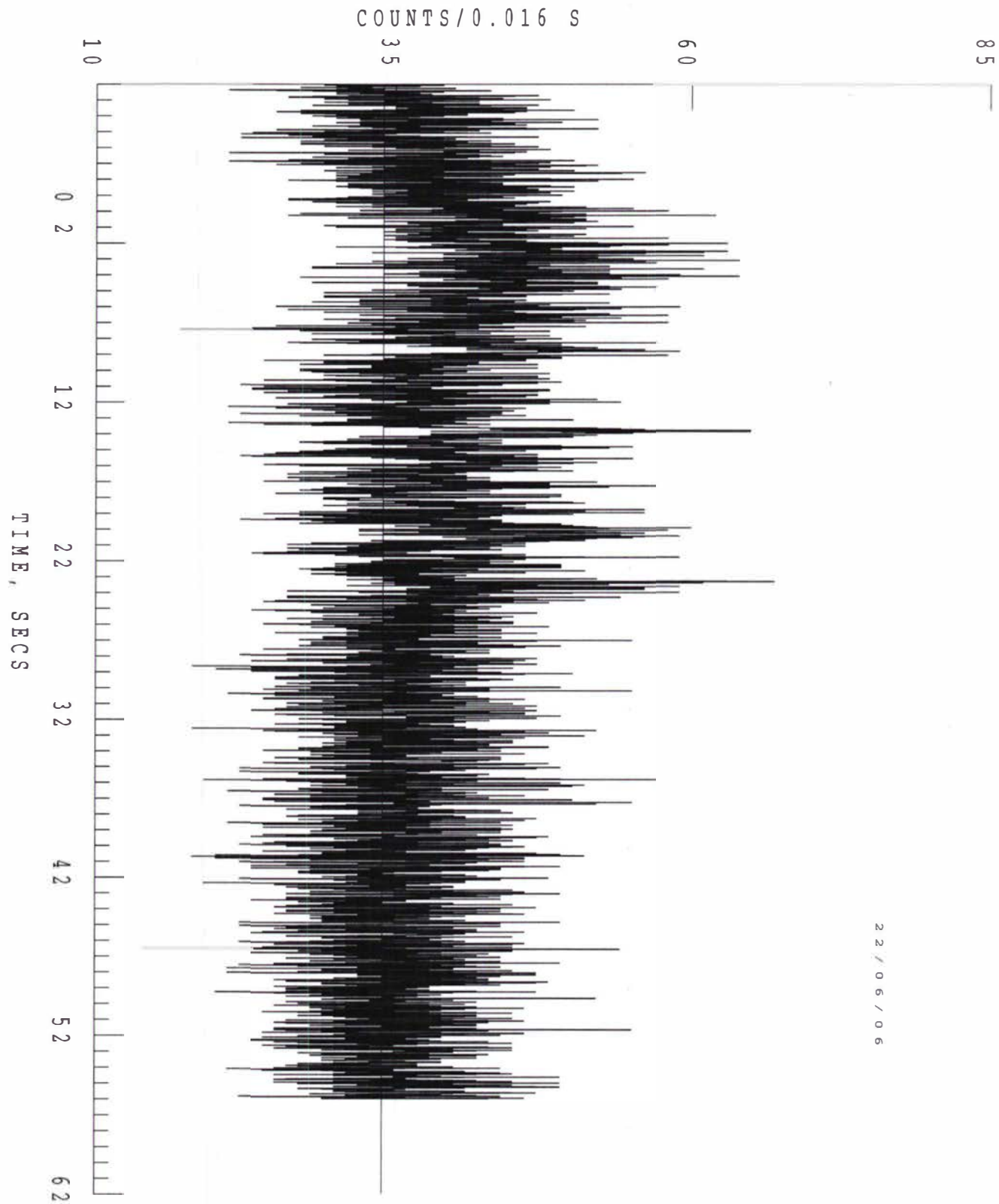
Swift was in the SAA at this time.

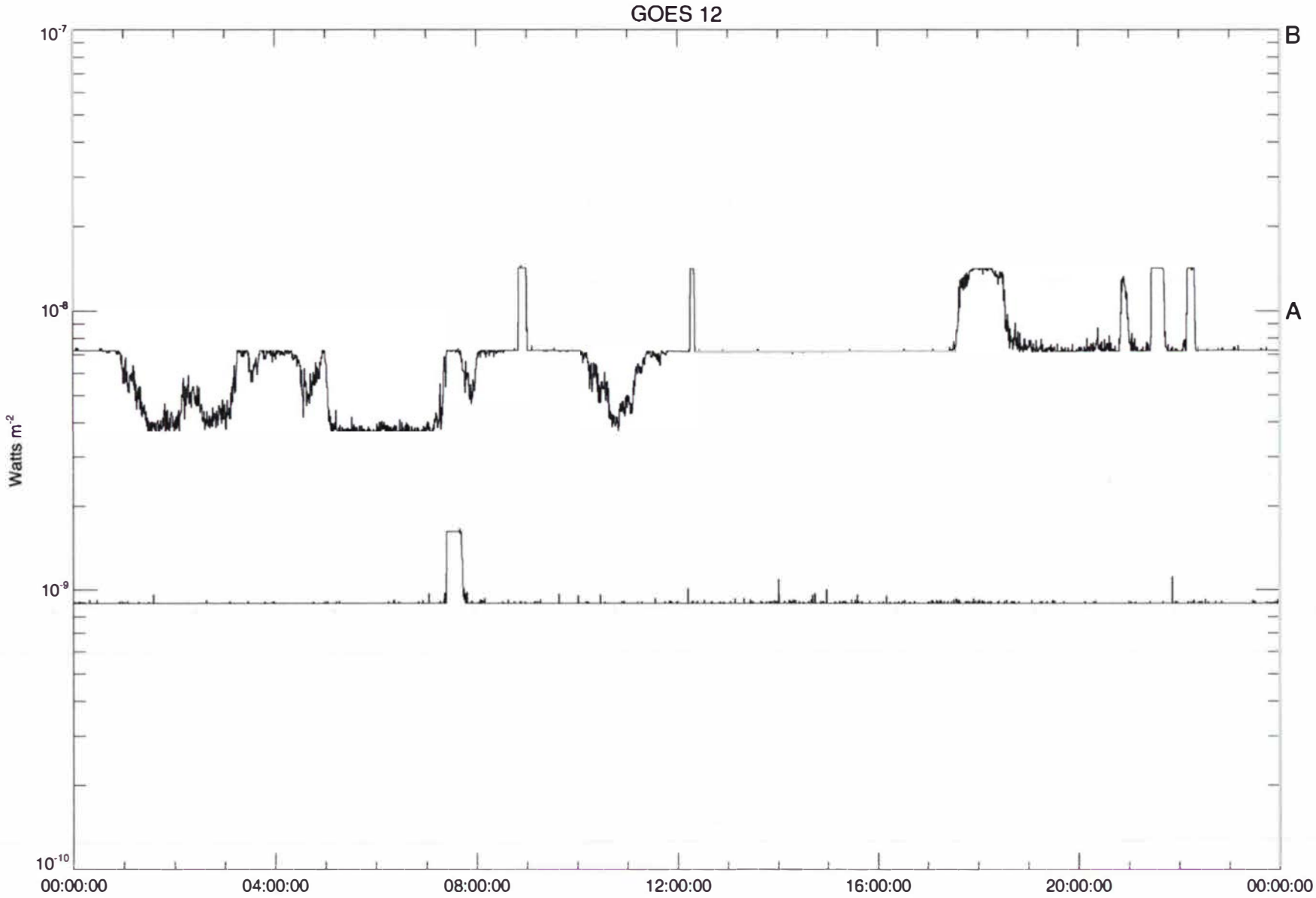
At 1:06 AM +0400 6/25/06, val wrote:
>Dear colleagues,
>
>A long relatively hard GRB triggered Konus-Wind
>at 2006-06-22 T0=62388.630 s UT (17:19:48.630).
>The burst light curve shows many pulses with a total duration of ~40 sec.
>The peak count rate is ~1200 cts/sec (in the 20-1360 keV range).
The source of the burst is in the south ecliptic hemisphere.
This burst was also detected by Suzaku-WAM.
>Despite the burst is not very bright, the multipeaked structure probably
>will
>let to derive relatively narrow Konus-WAM annulus.
>
>Any other detections?
>
>Best wishes,
>
>Valentin

--
Jay Cummings

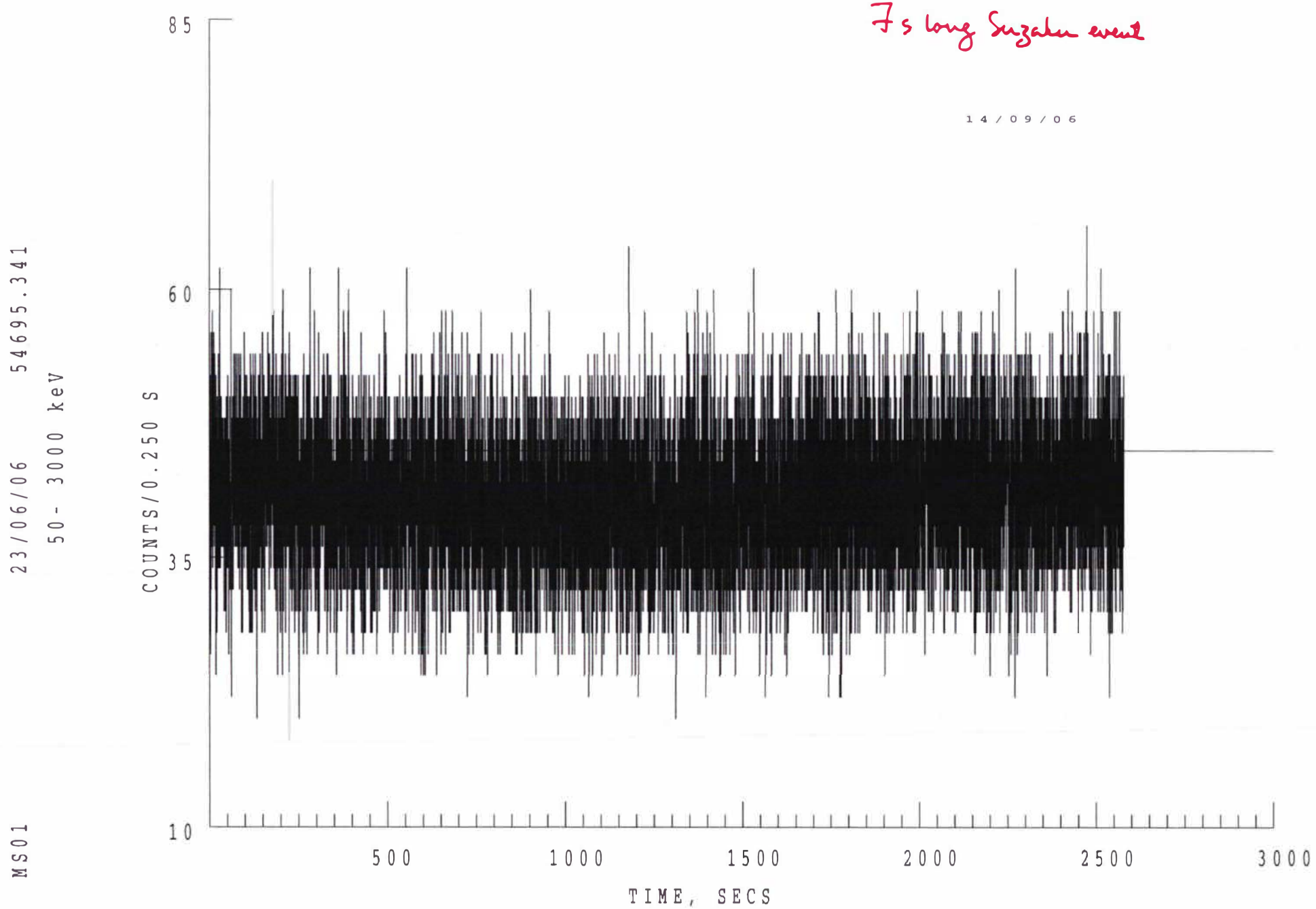
SUZAKU 22/06/06 62386.397

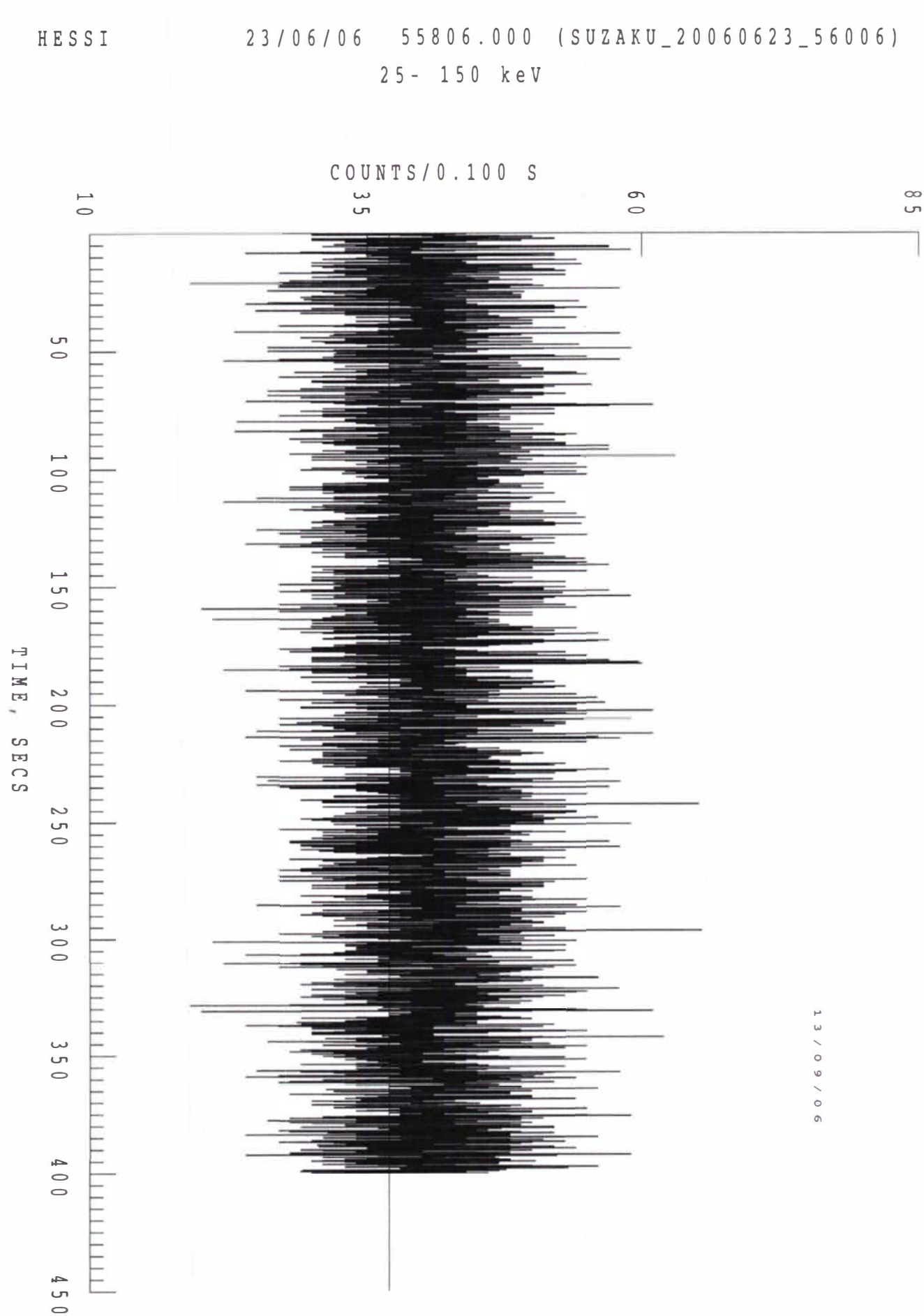
50- 240 keV

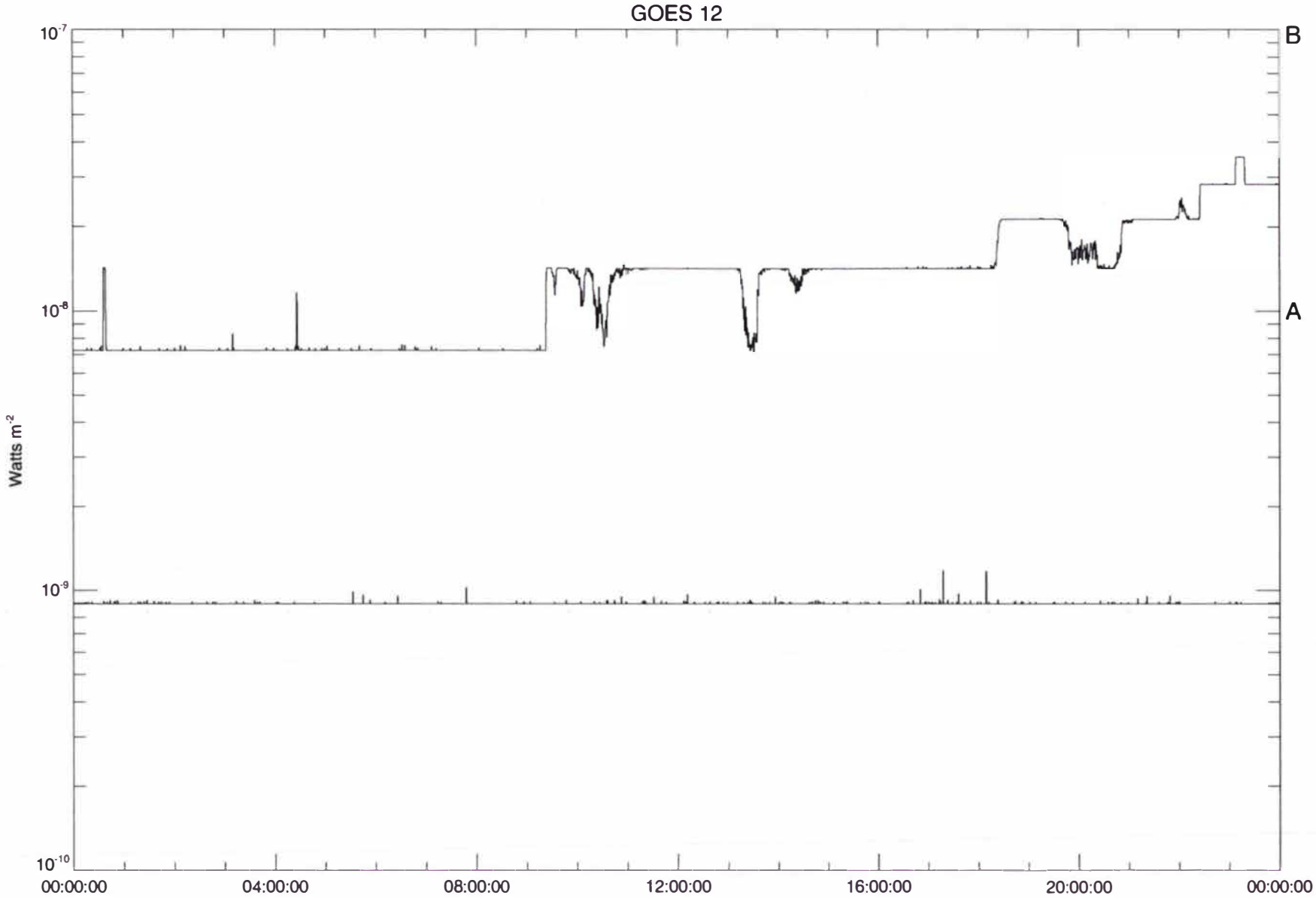




Data Start: 06/06/22, 0000:00 Plot created: 06/09/08, 2209
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10


7 s long Suzaku event
14/09/06
MS01
23/06/06 54695.341
50- 3000 keV
COUNTS/0.250 S
85
60
35
10
500
1000
1500
2000
2500
3000
TIME, SECS

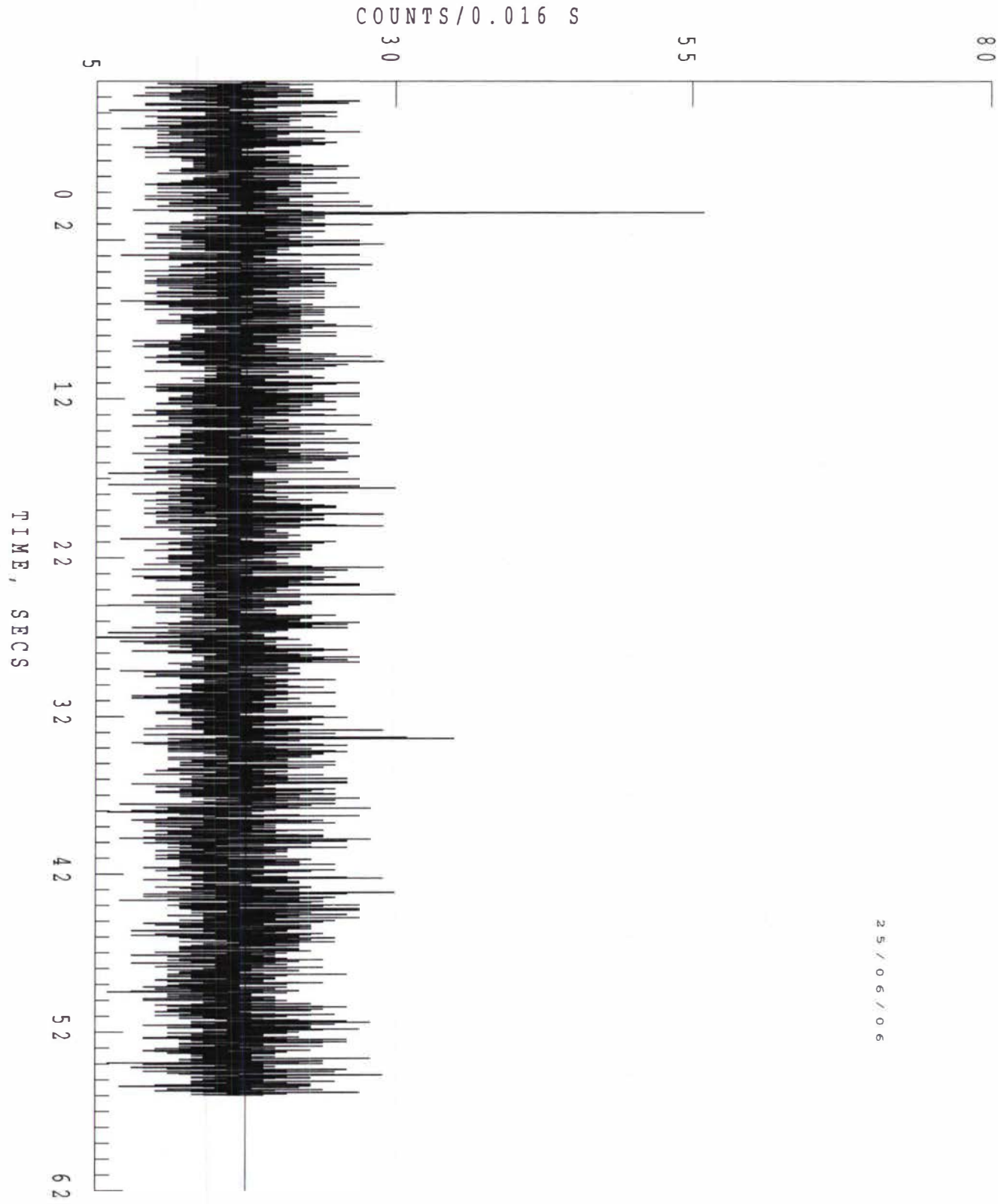

HESSI
23/06/06 55806.000 (SUZAKU_20060623_56006)
25- 150 keV
COUNTS/0.100 S
10
35
60
85
50
100
150
200
250
300
350
400
450
TIME, SECS
13/09/06



Data Start: 06/06/23, 0000:00 Plot created: 06/09/08, 2211
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

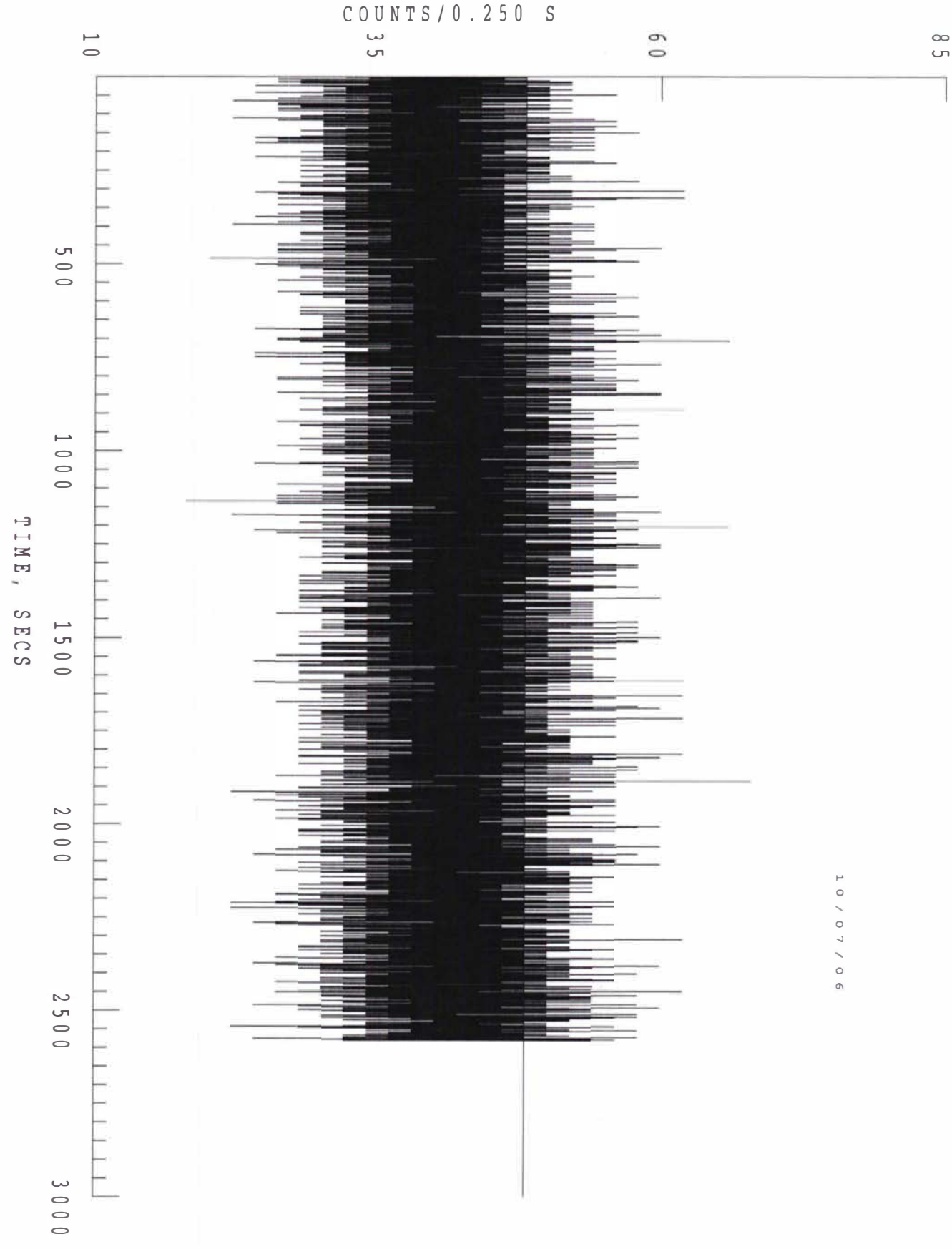
SUZAKU 24/06/06 45512.373

50- 240 keV 12:38:32



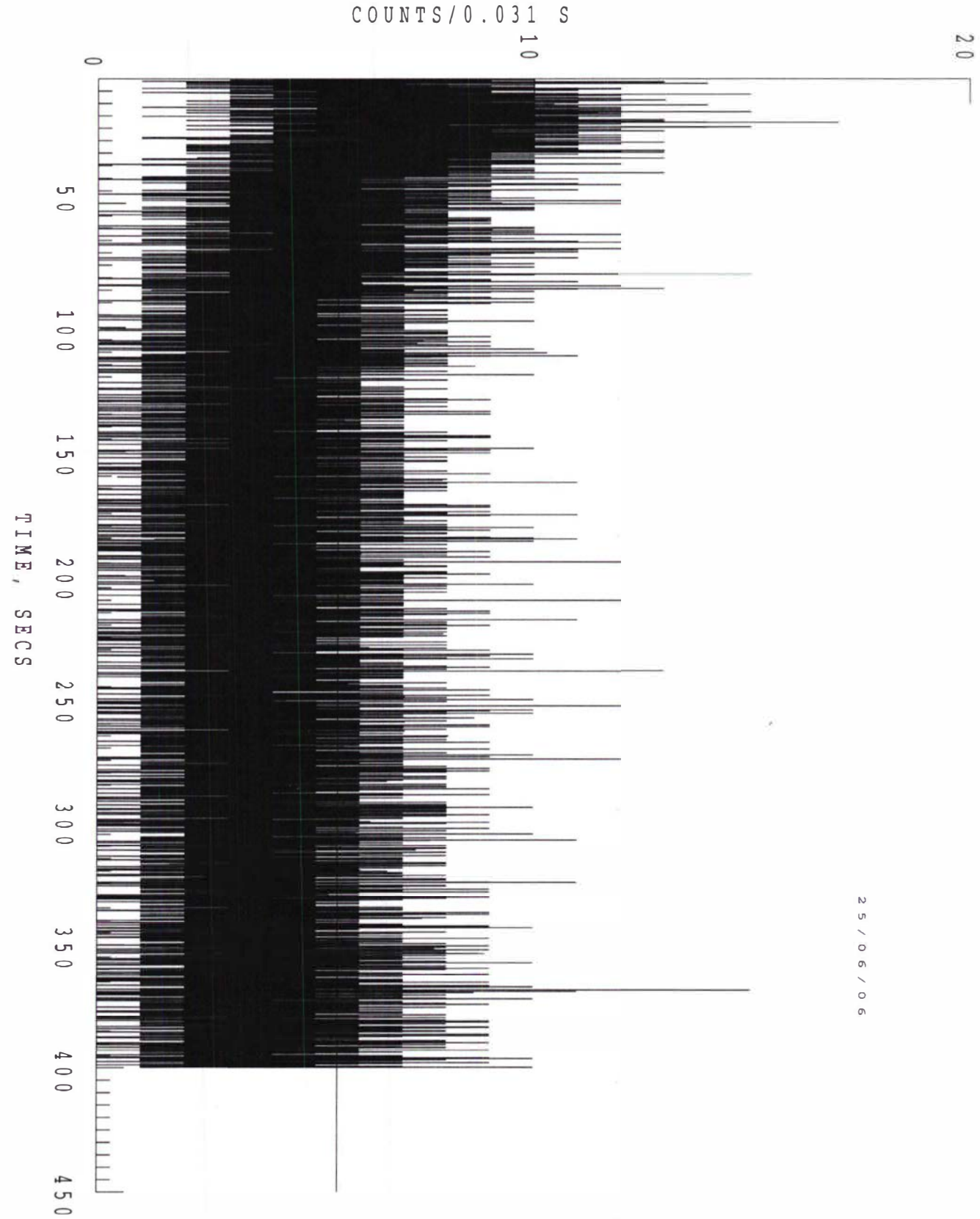
MS01 24/06/06 44193.962

50- 3000 keV



HESSI 24/06/06 45312.000 (SUZAKU_20060624_45512)

25- 150 keV



Date: Aug 7 2017

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

□ Σ 3Δt'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?

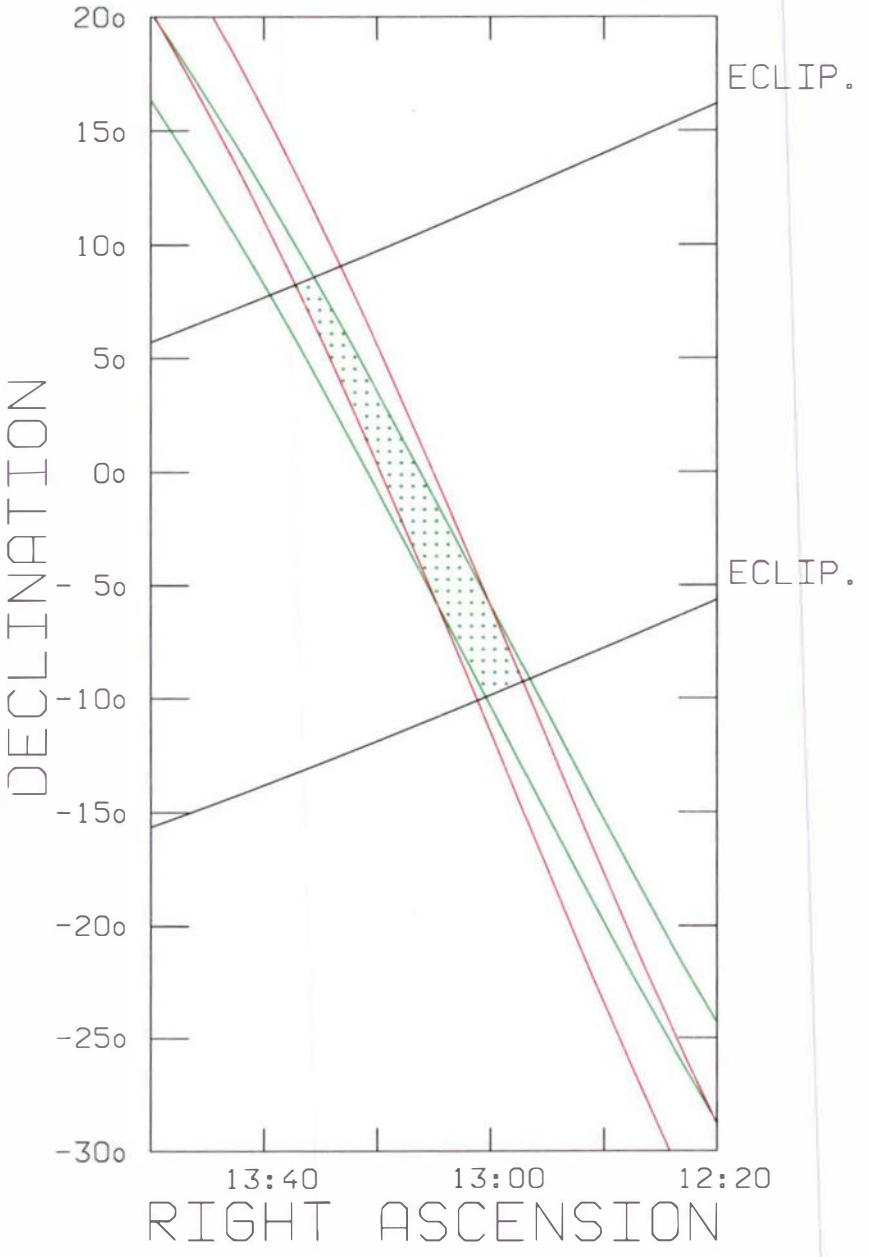
□ Updated ephemeris used for bursts prior to September 30, 2003?

□ 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?

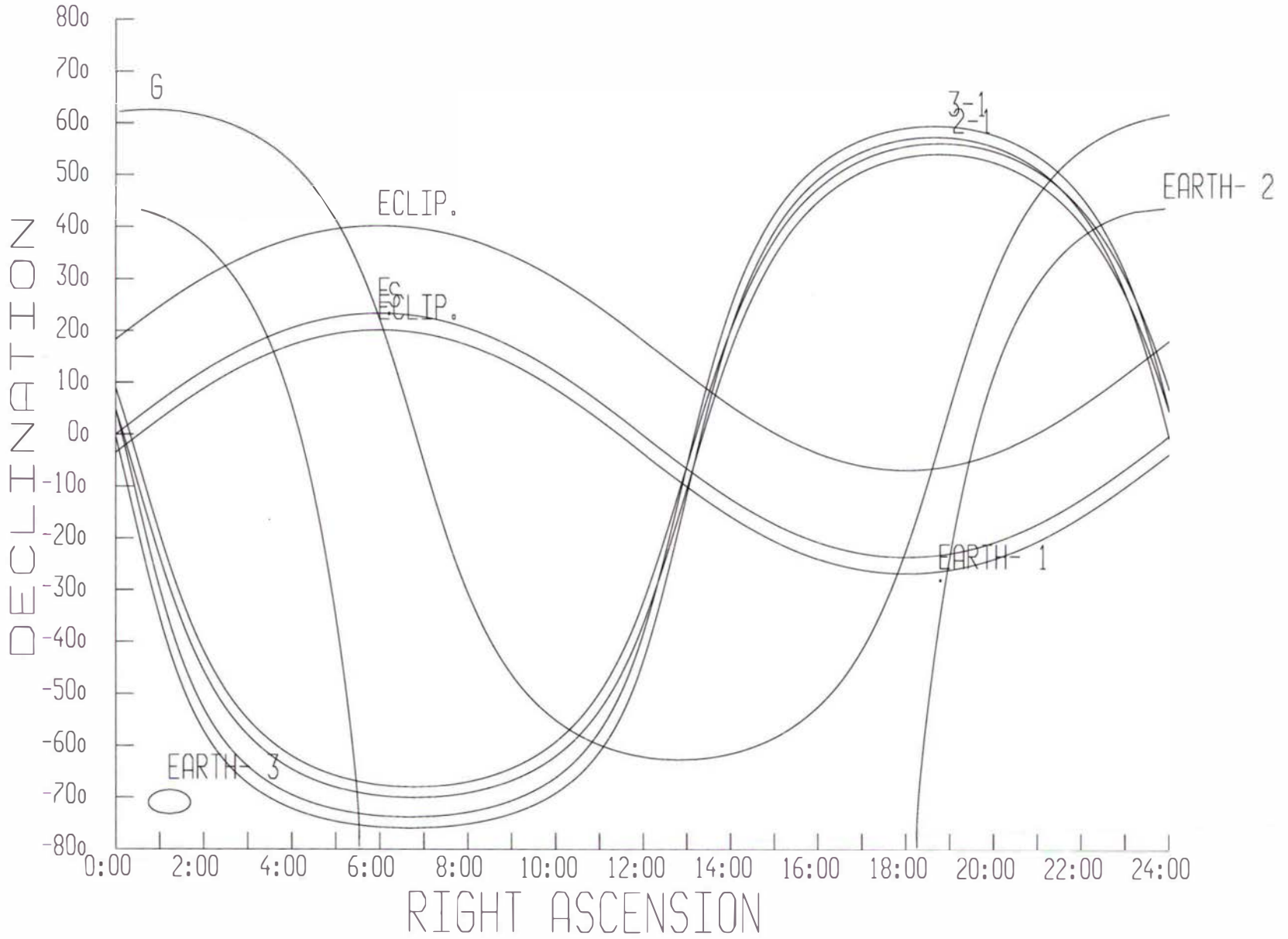
GRB060624 ~49614 S 07/08/2017



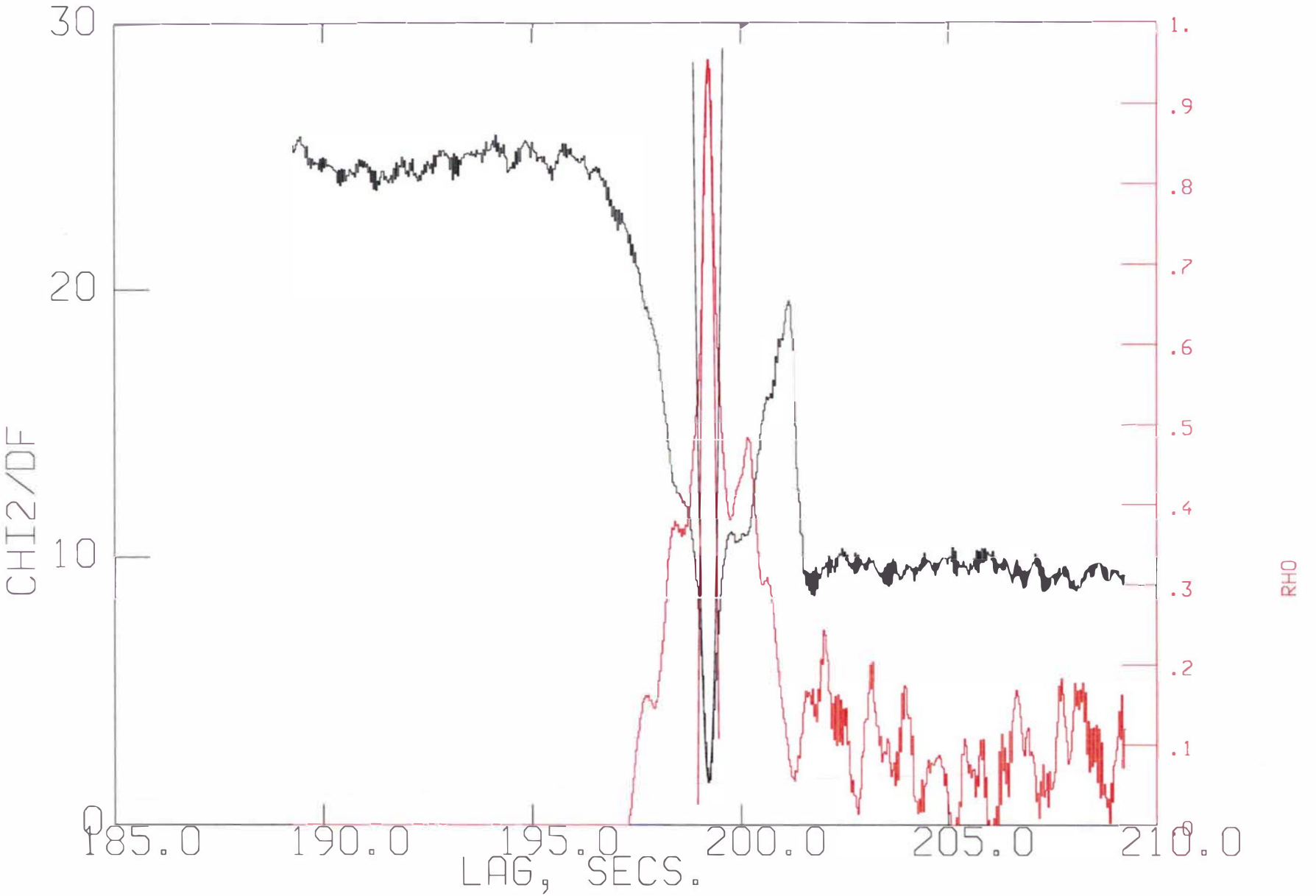
EVENT OF JUN 24, 2006 13:46

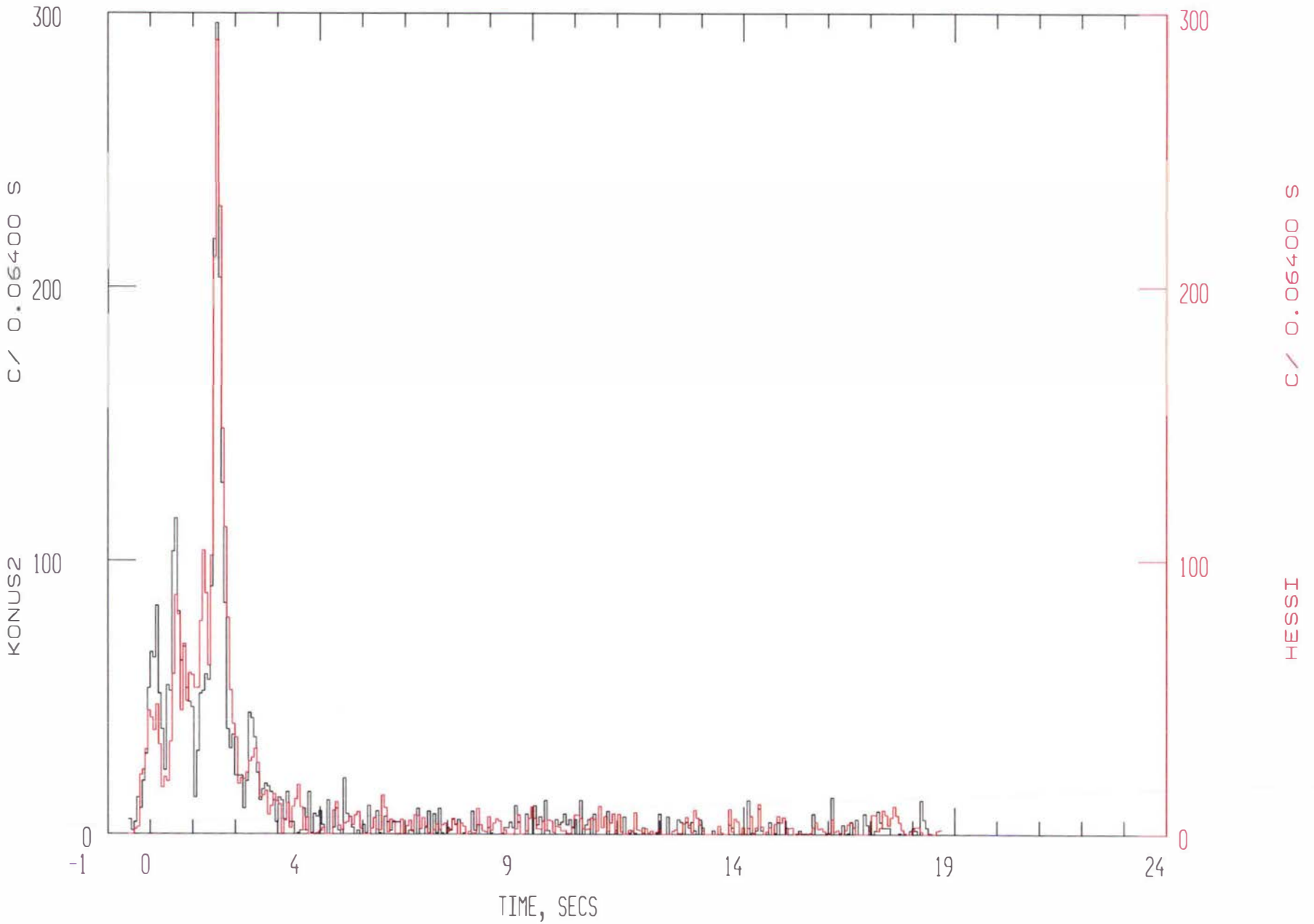
07/08/2017

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 HESSI 3 INTEGRAL

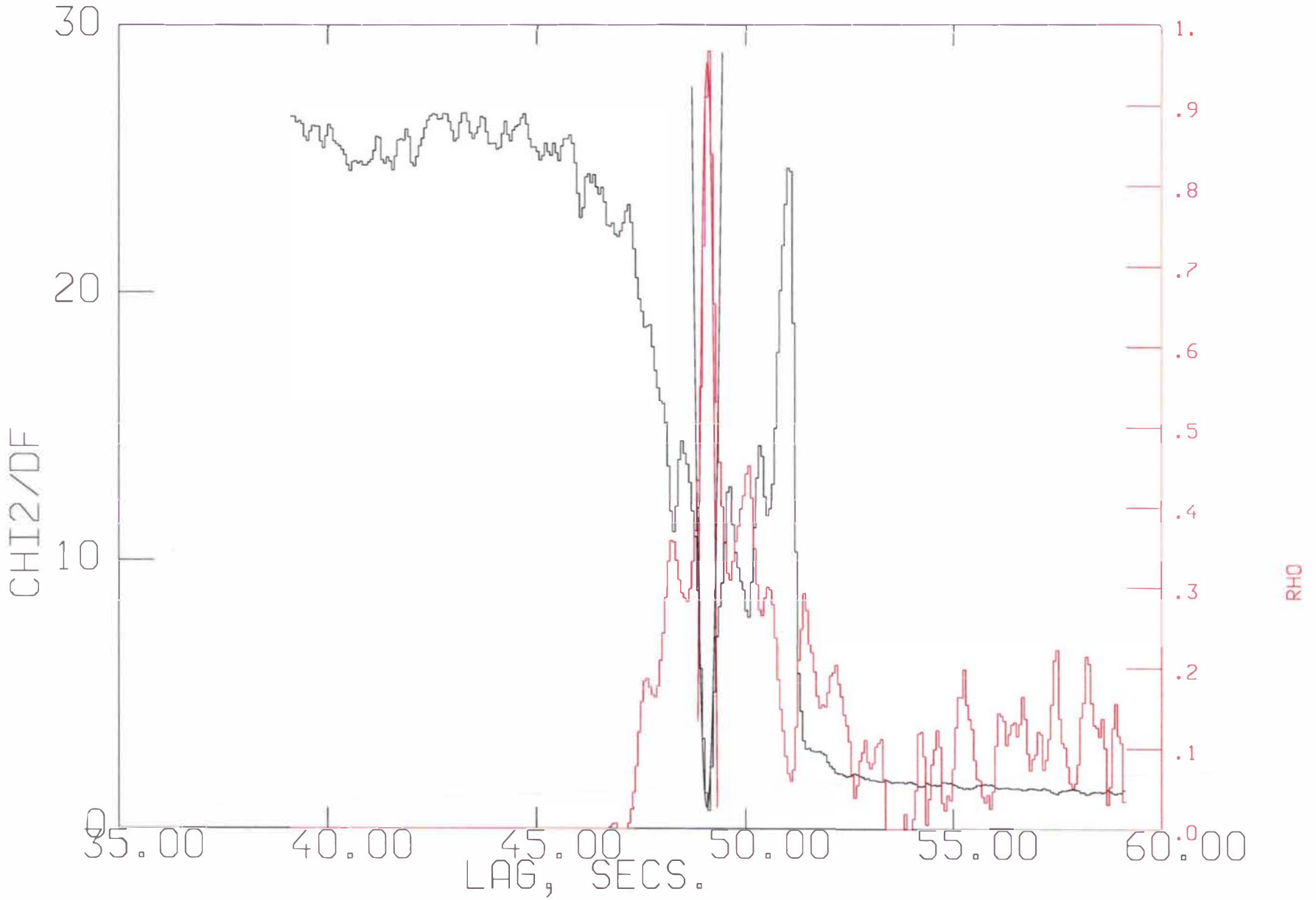


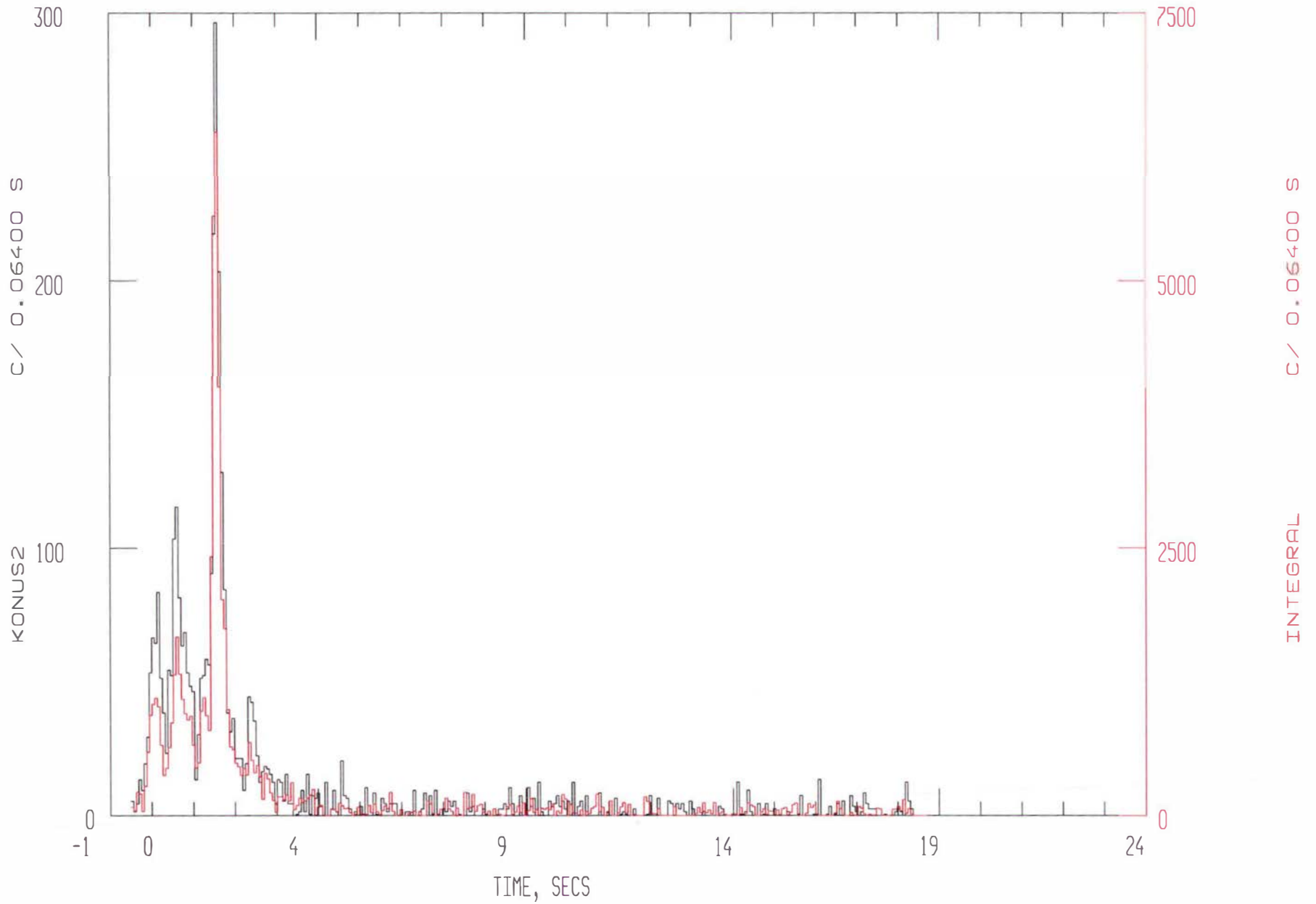
KONUS2 -HESSI CORRELATION 24/06/06 49615.385

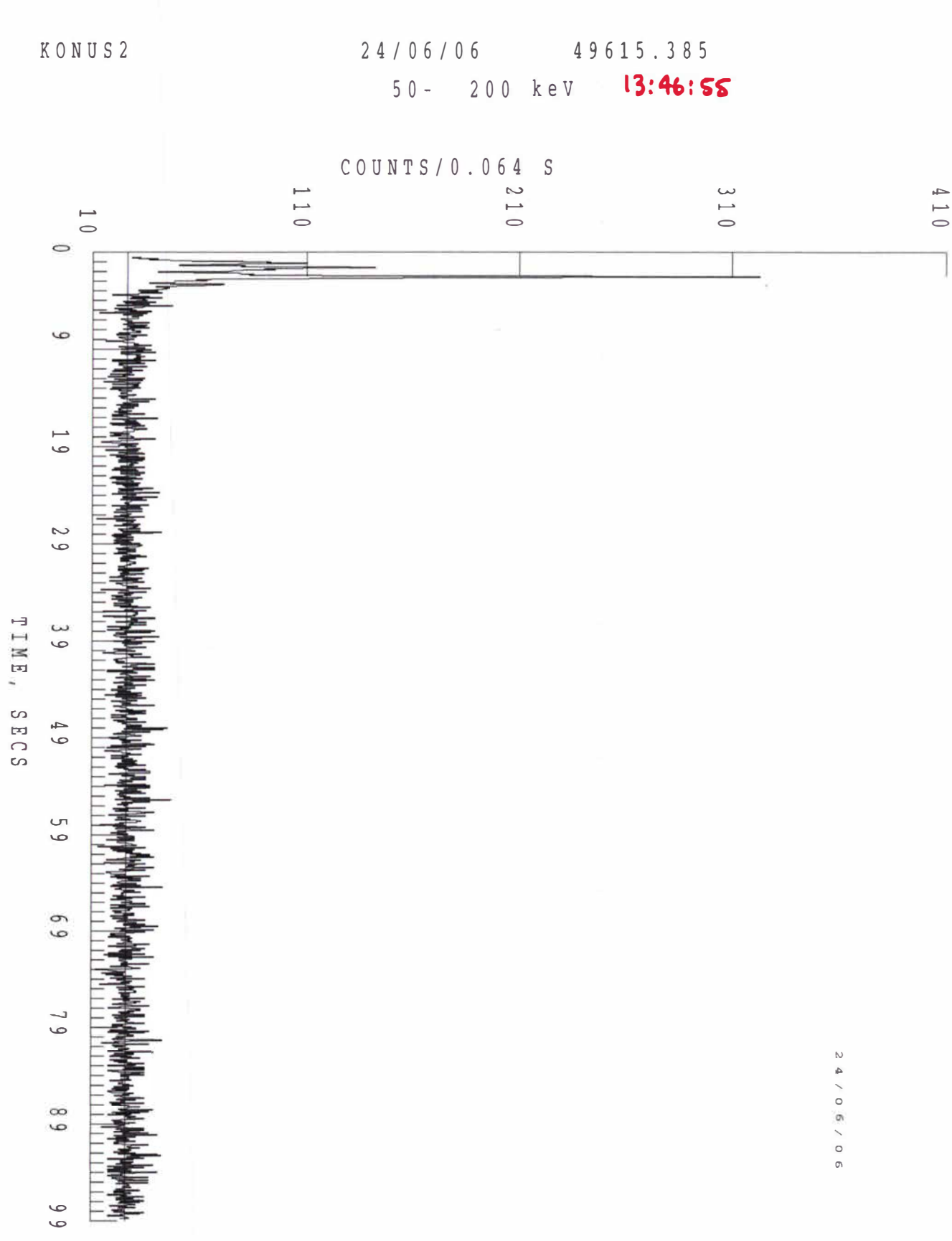



KONUS2 -HESSI CORRELATION 24/06/06 49615.385
300
200
100
0
C/ 0.06400 S
KONUS2
-1
0
4
9
14
19
24
TIME, SECS
HESSI

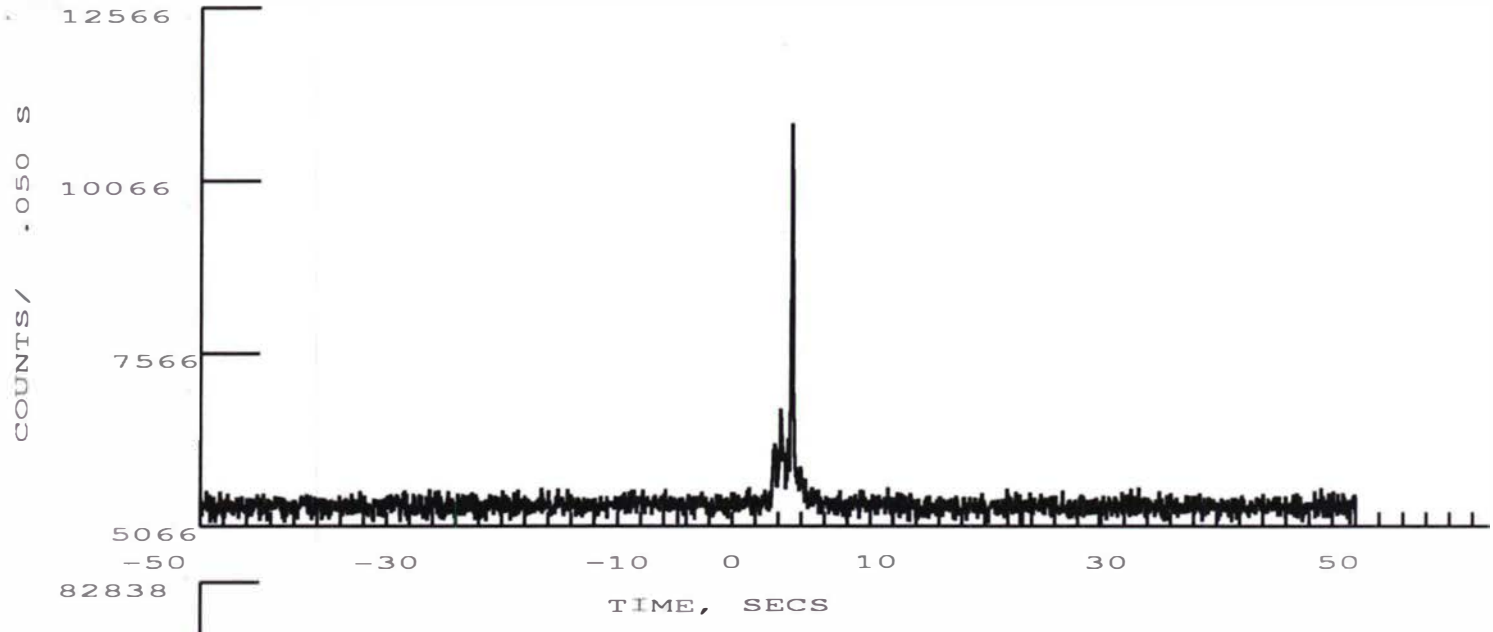
KONUS2 -INTEGRAL CORRELATION 24/06/06 49615.385

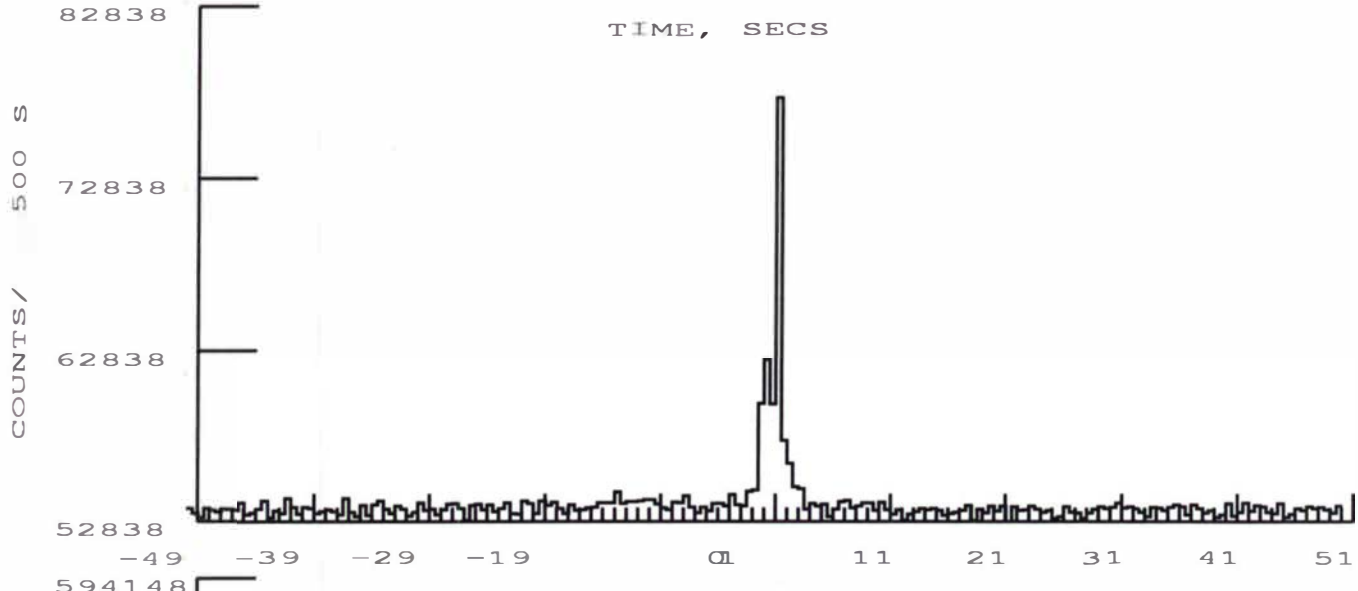


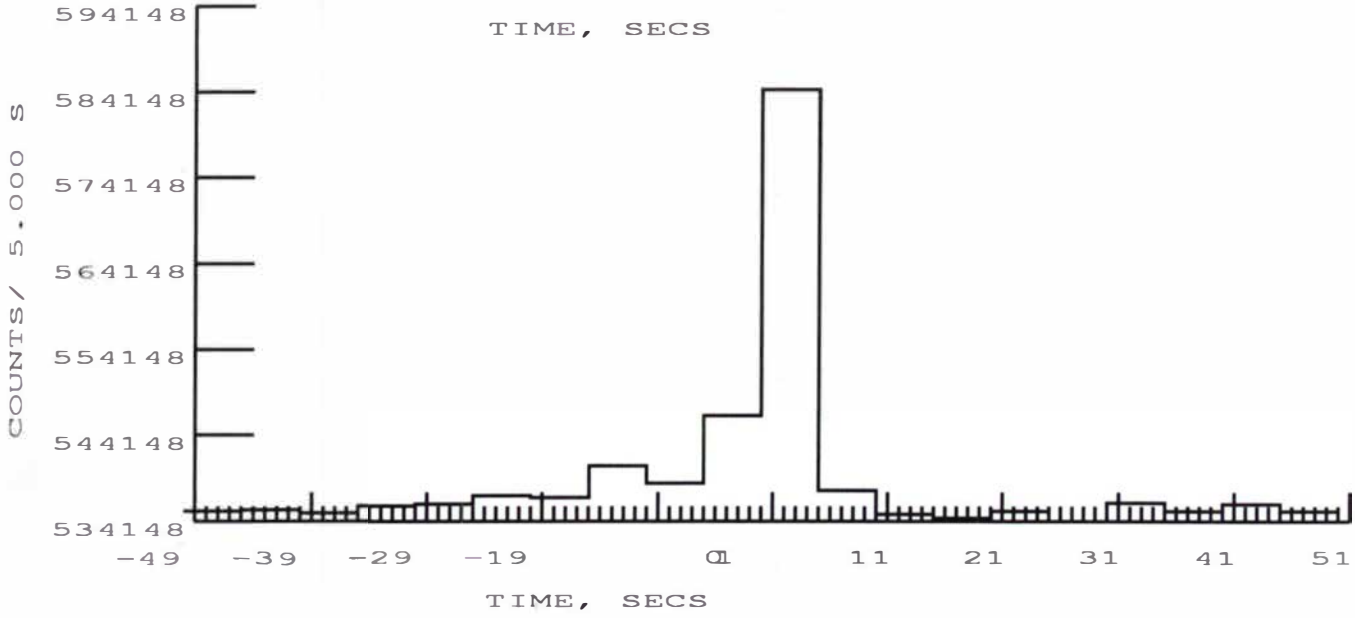

KONUS2 -INTEGRAL CORRELATION 24/06/06 49615.385
300
200
100
0
7500
5000
2500
0
C/ 0.06400 S
KONUS2
INTEGRAL
-1
0
4
9
14
19
24
TIME, SECS


KONUS2
24/06/06
49615.385
50- 200 keV
13:46:55
COUNTS/0.064 S
10
110
210
310
410
0
9
19
29
39
49
59
69
79
89
99
TIME, SECS
24/06/06

INTEGRAL 24/06/06 49615.000 13:46:55.0 11/07/14

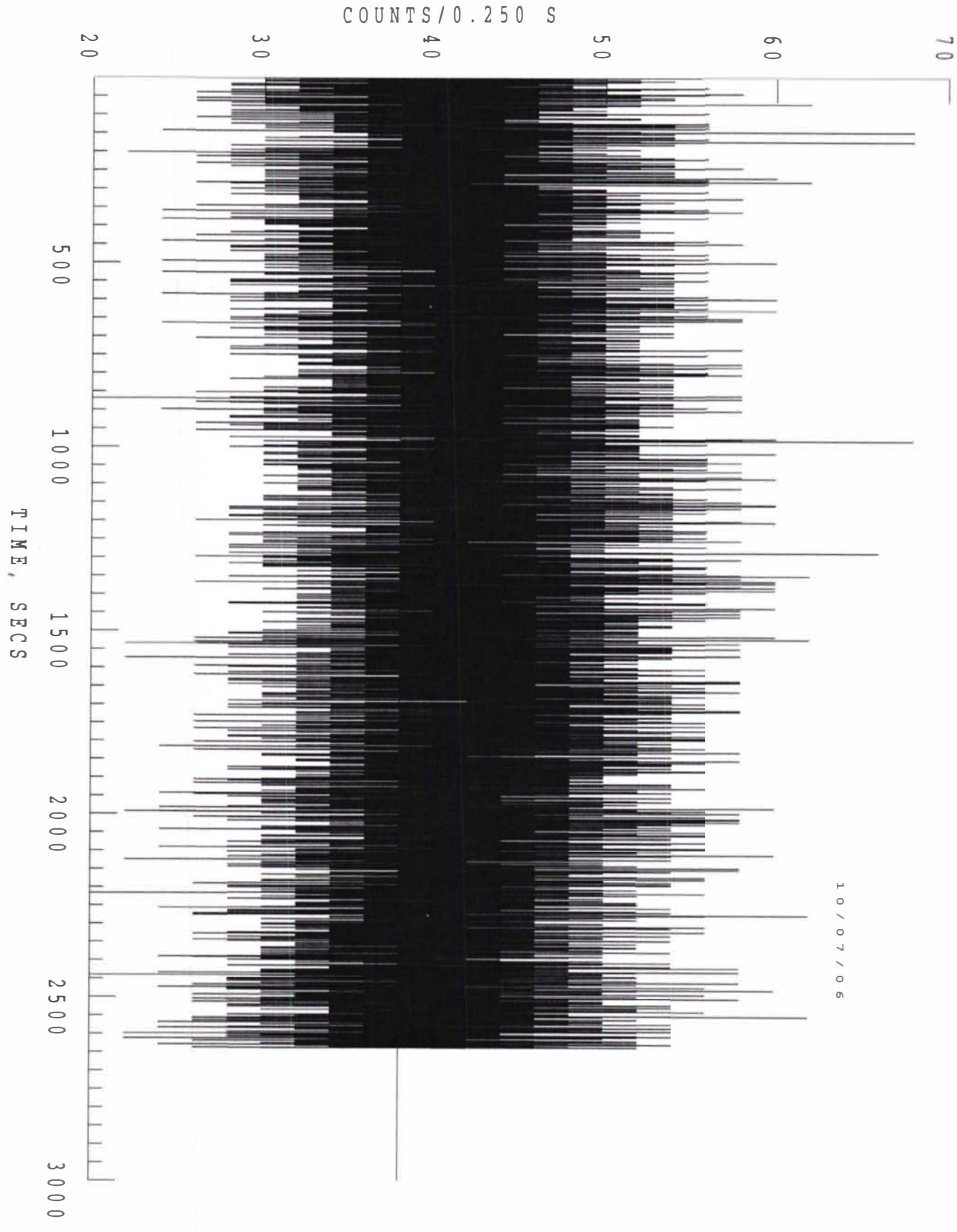






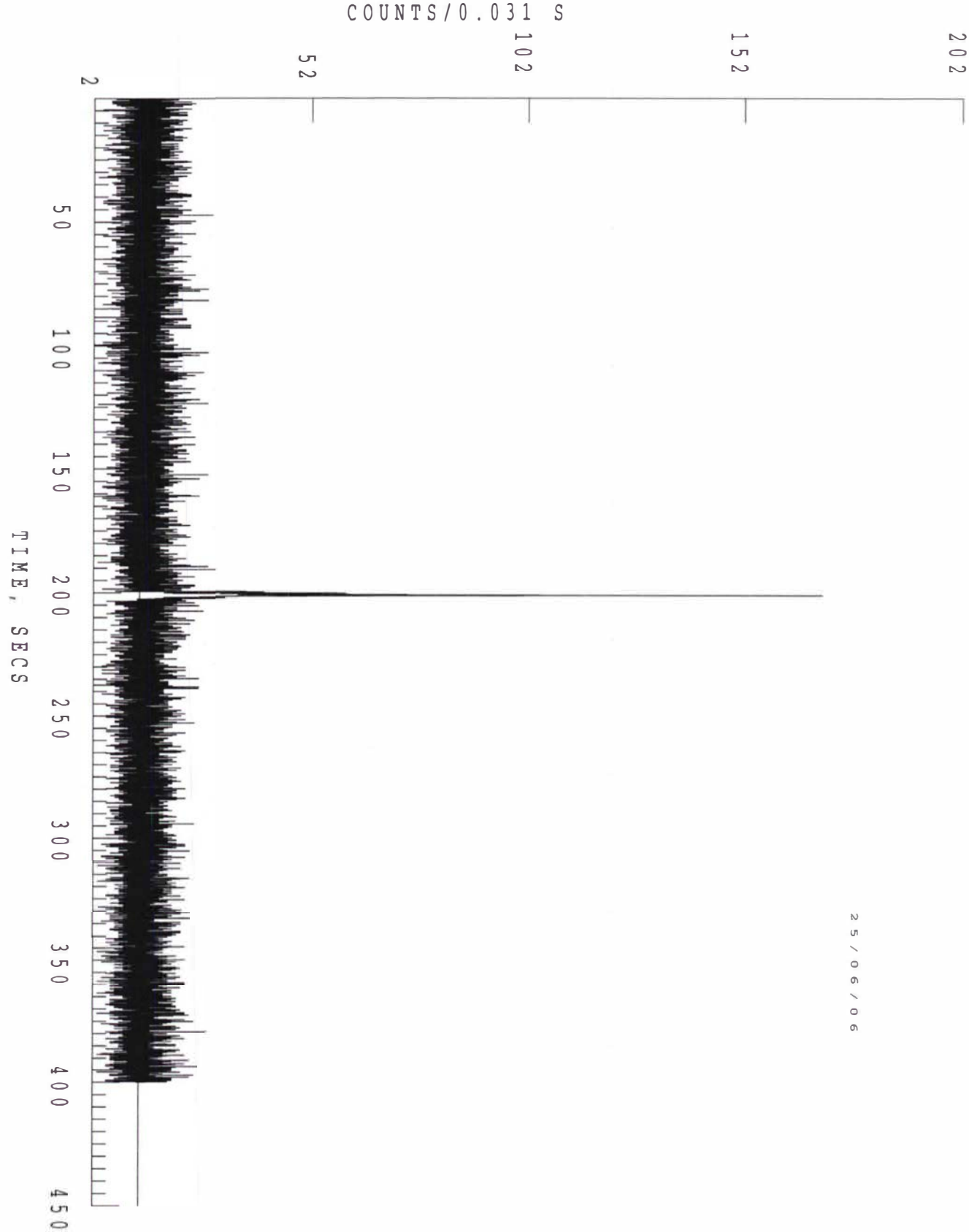
MS01 24/06/06 48273.891

50- 3000 keV



HESSI 24/06/06 49415.000 (KONUS2_20060624_49615)

25- 150 keV



From jayc@milkyway.gsfc.nasa.gov Mon Jun 26 05:10:02 2006
X-ASG-Debug-ID: 1151323833-301800060000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: milkyway.gsfc.nasa.gov[128.183.16.143]
X-Barracuda-Start-Time: 1151323833
X-ASG-Whitelist: Sender
Mime-Version: 1.0
X-Sender: jayc@lheapop.gsfc.nasa.gov
Date: Mon, 26 Jun 2006 08:09:01 -0400
To: Val <val@mail.ioffe.ru>, Kevin Hurley <khurley@ssl.berkeley.edu>,
Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>,
Roland Vanderspek <roland@space.mit.edu>,
Sergey Golenetskii <golen@mail.ioffe.ru>,
Hans Krimm <krimm@milkyway.gsfc.nasa.gov>,
Masanori Ohno <ohno@hirax7.hepl.hiroshima-u.ac.jp>
From: Jay Cummings <jayc@milkyway.gsfc.nasa.gov>
X-ASG-Orig-Subj: Re: long bright GRB detected by Konus-Wind on June 24
Subject: Re: long bright GRB detected by Konus-Wind on June 24
Cc: val <val@mail.ioffe.ru>
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

BAT sees no increase in rates at this time.

At 8:48 PM +0400 6/25/06, Val wrote:
>Dear colleagues,
>
>A long bright GRB triggered Konus-Wind at 2006-06-24 T0=49615.385 s UT (13:46:5
>The burst shows ~10-s long relatively weak emission and the main
>pulse at T-T0~1.5 sec.
The source of the burst is near the ecliptic plane.
>The peak count rate is ~10000 cts/sec (in the 18-1160 keV range).
>Despite the burst brightness, it is unusually soft: there is no emission
>in G3 band except the peak.
>
>Any other detections?
>
>Best wishes,
>
>Valentin
>--
>
>Valentin Pal'shin
>
>Ioffe Physico-Technical Institute
>Laboratory for Experimental Astrophysics
>26 Polytekhnicheskaya, St Petersburg 194021,
>Russian Federation
>
>email: val@mail.ioffe.ru
>Tel: (7)-812-2479177
>Fax: (7)-812-2471963

--
Jay Cummings

From yamaoka@phys.aoyama.ac.jp Mon Jun 26 04:47:48 2006
X-ASG-Debug-ID: 1151322496-1aee00540000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: scmailgw2.scop.aoyama.ac.jp[133.2.251.195]
X-Barracuda-Start-Time: 1151322496
To: val@mail.ioffe.ru
Cc: khurley@ssl.berkeley.edu, jayc@milkyway.gsfc.nasa.gov,
        roland@space.mit.edu, golen@mail.ioffe.ru,
        krimm@milkyway.gsfc.nasa.gov, ohno@hirax7.hepl.hiroshima-u.ac.jp
Cc: yamaoka@phys.aoyama.ac.jp
X-ASG-Orig-Subj: Re: long bright GRB detected by Konus-Wind on June 24
Subject: Re: long bright GRB detected by Konus-Wind on June 24
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
Date: Mon, 26 Jun 2006 20:47:19 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
X-Dispatcher: imput version 20000228(IM140)
X-Barracuda-Bayes: INNOCENT GLOBAL 0.1277 1.0000 -1.2289
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-Barracuda-Spam-Report: Code version 3.02, rules version 3.0.15591
        Rule breakdown below pts rule name   description
        ---- ---------------------- --

Dear Valentin,

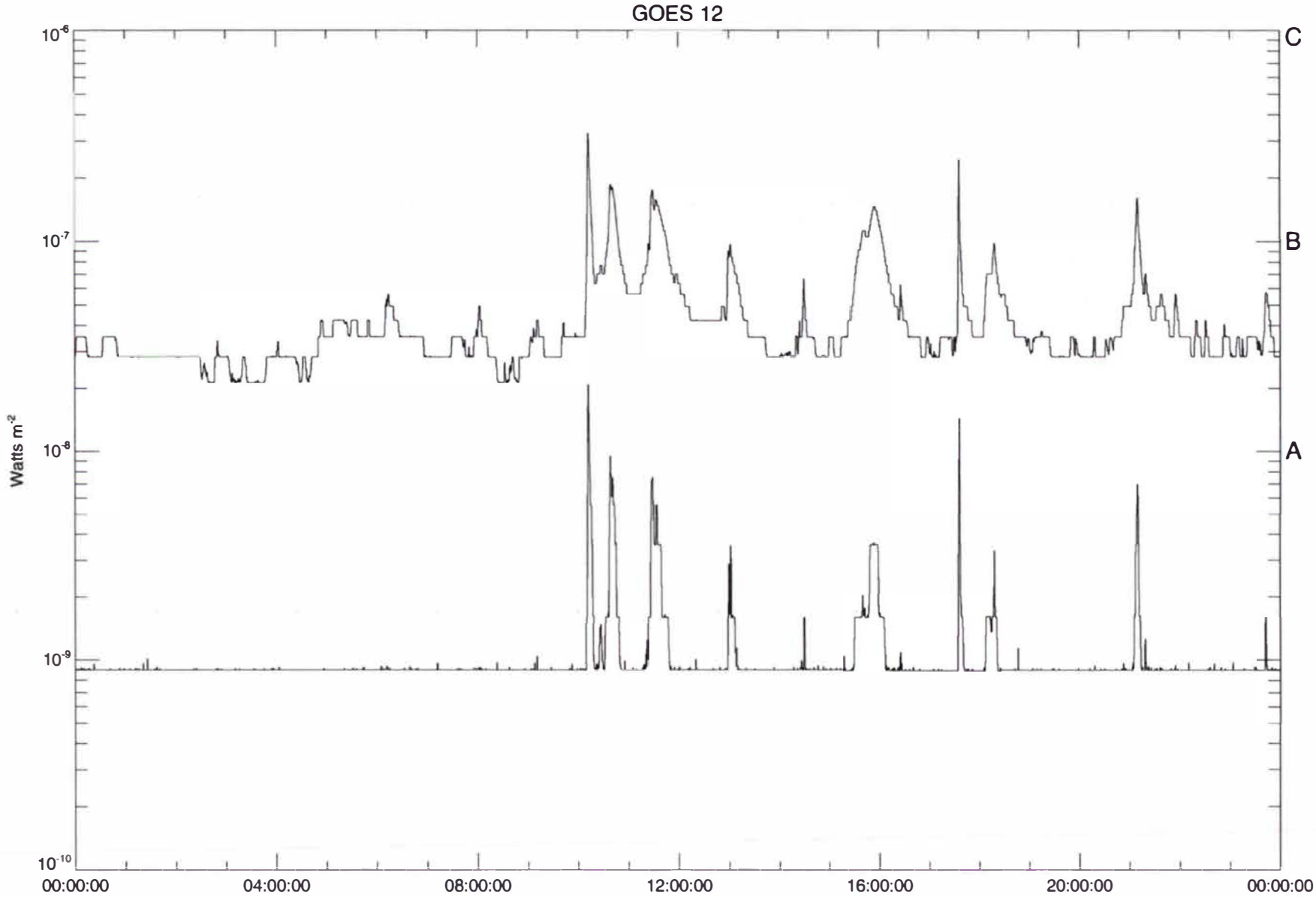
I cannot see any signals for June 24 event
 and 25 event (in the web page).

Best regards,
Kazu
on behalf of the WAM team

From: Val <val@mail.ioffe.ru>
Subject: long bright GRB detected by Konus-Wind on June 24
Date: Sun, 25 Jun 2006 20:48:49 +0400
Message-ID: <449EBE71.20905@mail.ioffe.ru>

> Dear colleagues,
>
> A long bright GRB triggered Konus-Wind at 2006-06-24 T0=49615.385 s UT
> (13:46:55.385).
> The burst shows ~10-s long relatively weak emission and the main
> pulse at T-T0~1.5 sec.
> The source of the burst is near the ecliptic plane.
> The peak count rate is ~10000 cts/sec (in the 18-1160 keV range).
> Despite the burst brightness, it is unusually soft: there is no emission
> in G3 band except the peak.
>
> Any other detections?
>
> Best wishes,
>
> Valentin
> --

> Valentin Pal'shin
>
> Ioffe Physico-Technical Institute
> Laboratory for Experimental Astrophysics

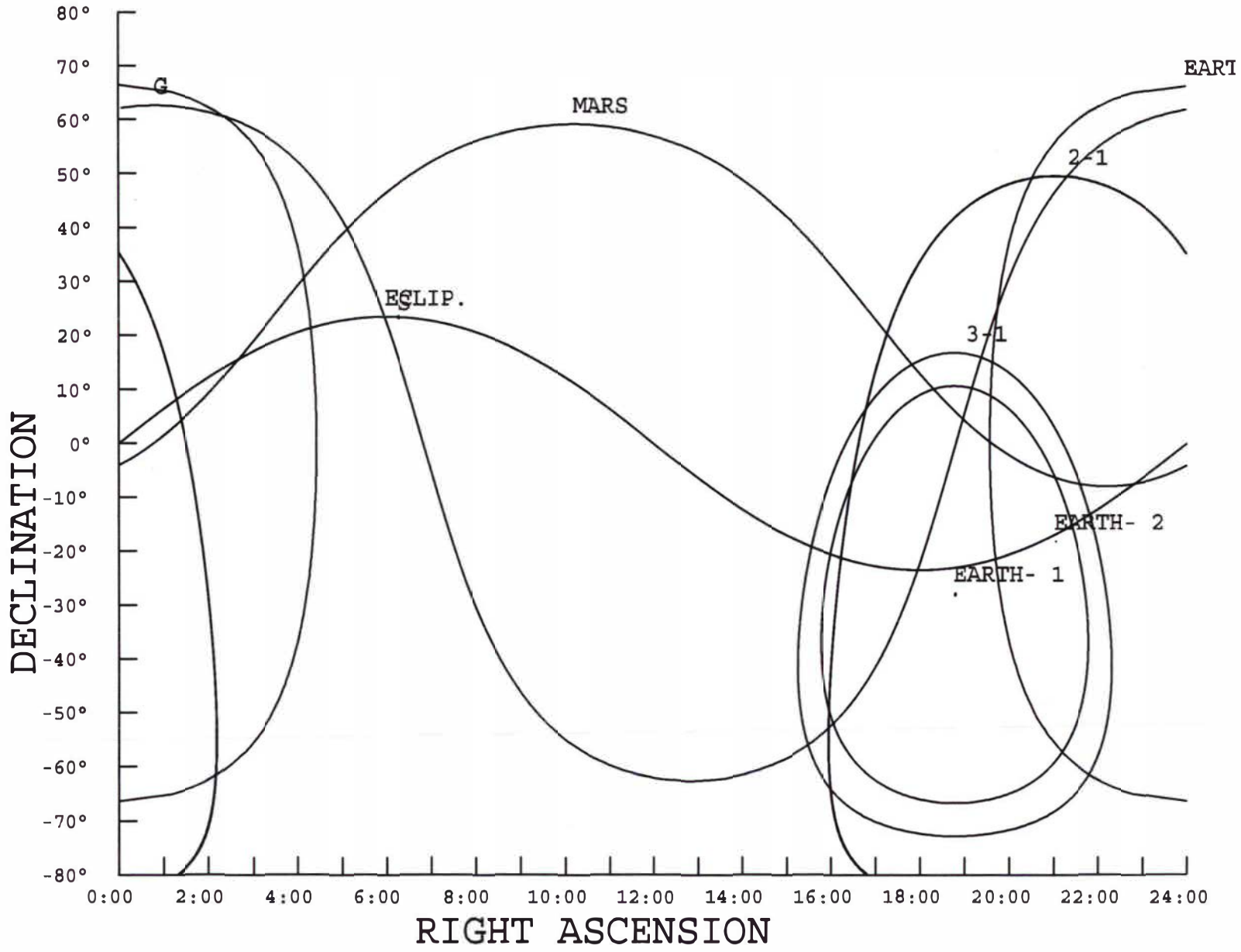


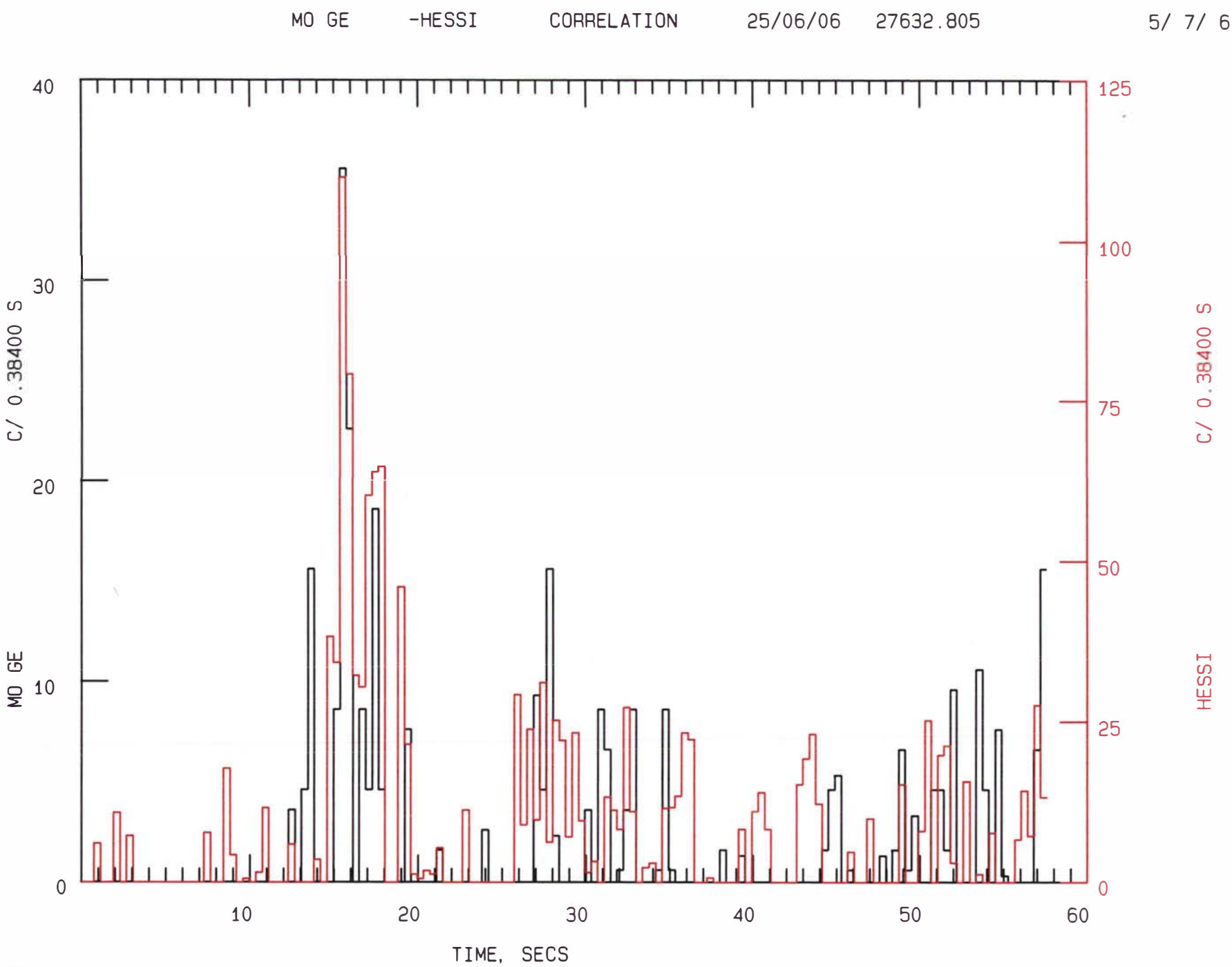
Data Start: 06/06/24, 0000:00
Plot created: 06/09/08, 2213
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

EVENT OF JUN 25, 2006 7:33

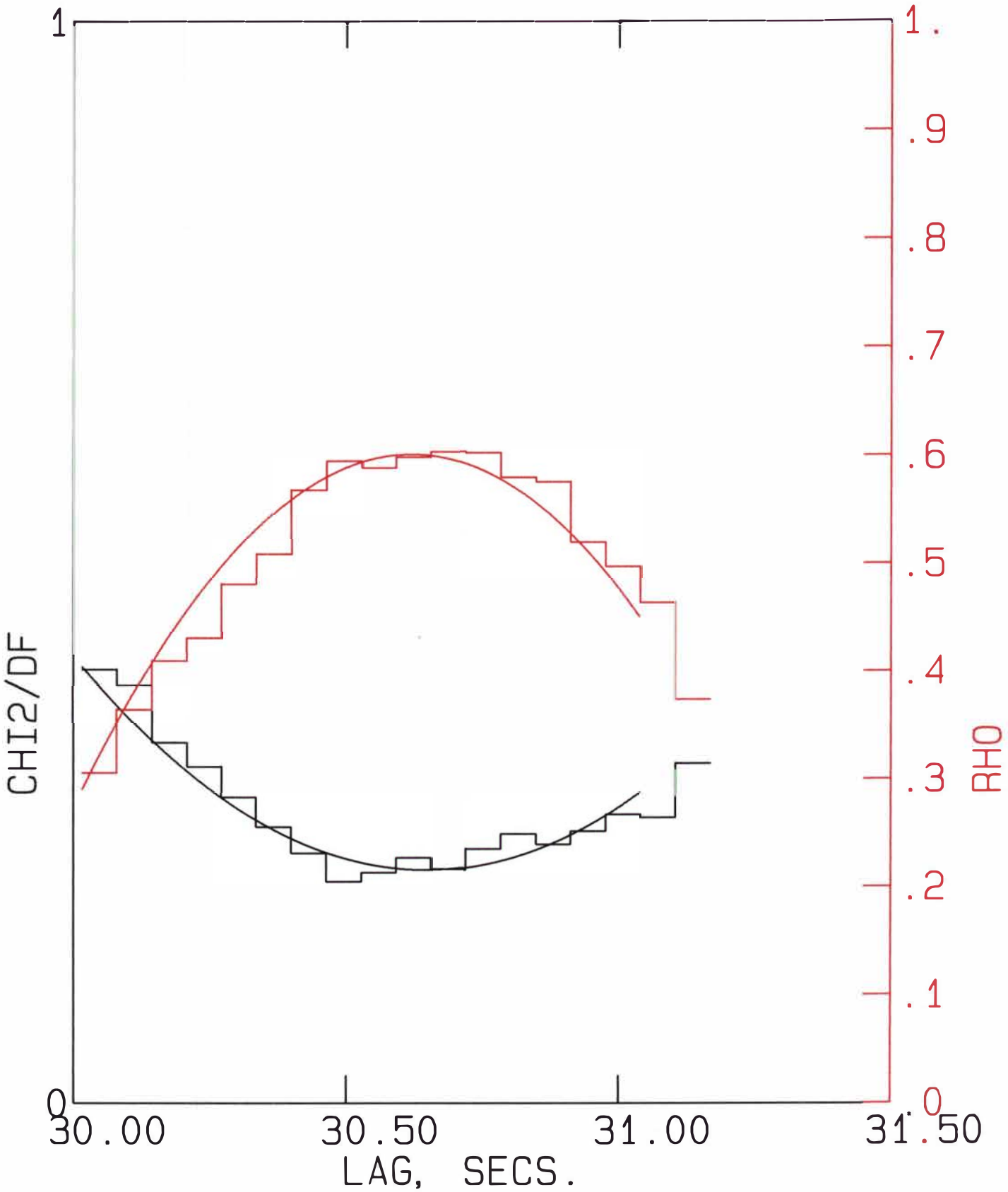
5/ 7/ 6

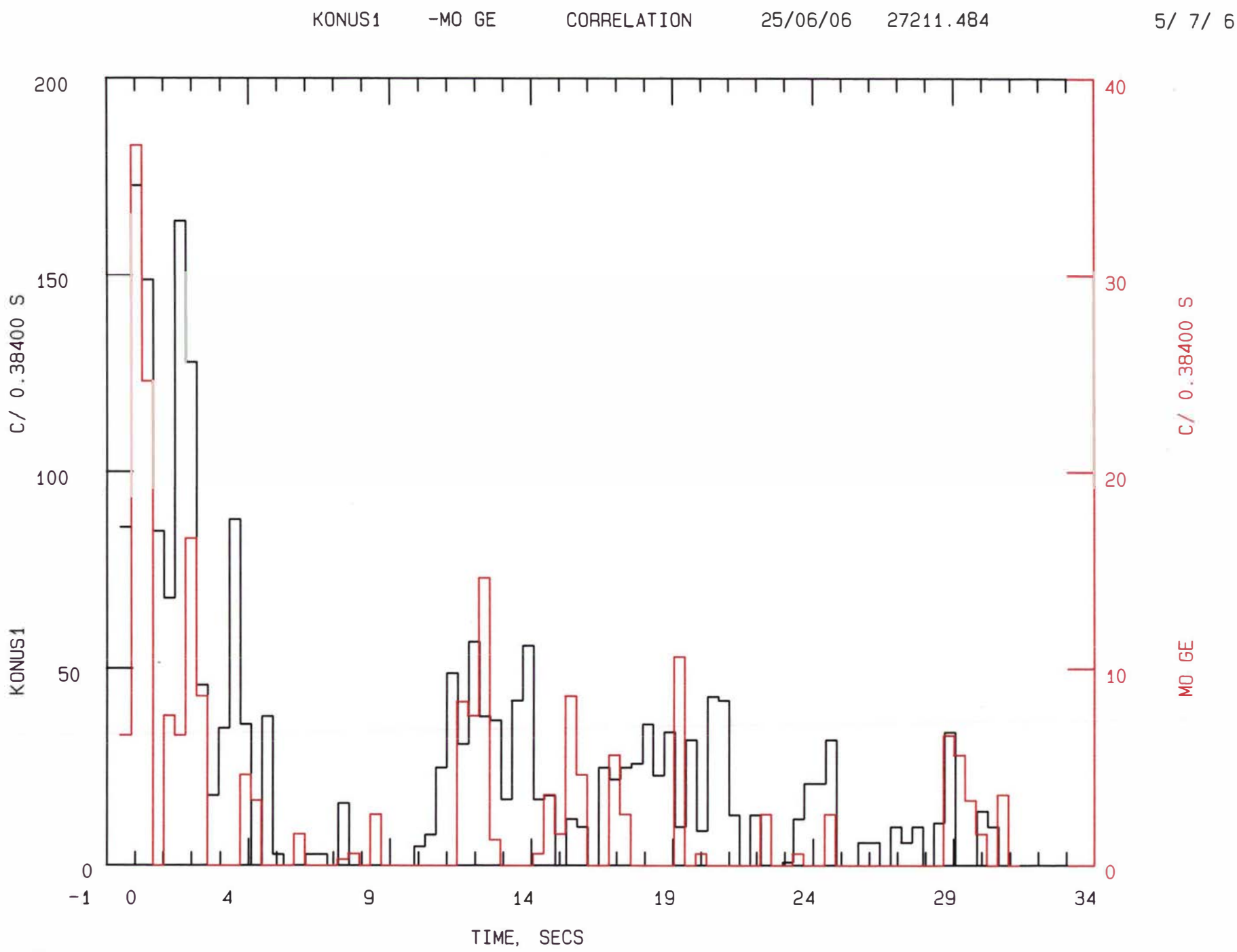
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 KONUS1 2 MO 3 HESSI



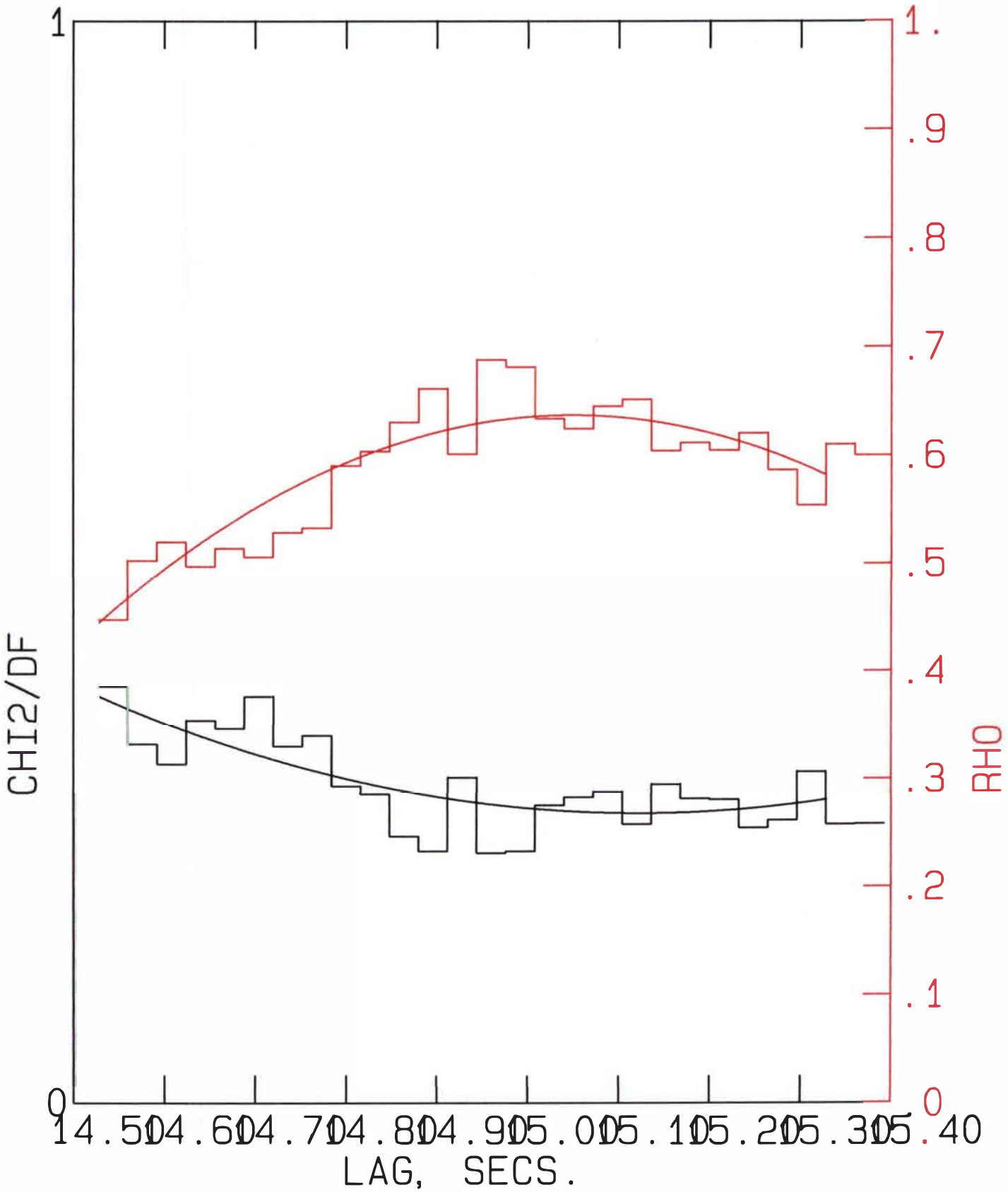

MO GE -HESSI CORRELATION 25/06/06 27632.805 5/ 7/ 6
40
30
20
10
0
C/ 0.38400 S
MO GE
125
100
75
50
25
0
C/ 0.38400 S
HESSI
10
20
30
40
50
60
TIME, SECS

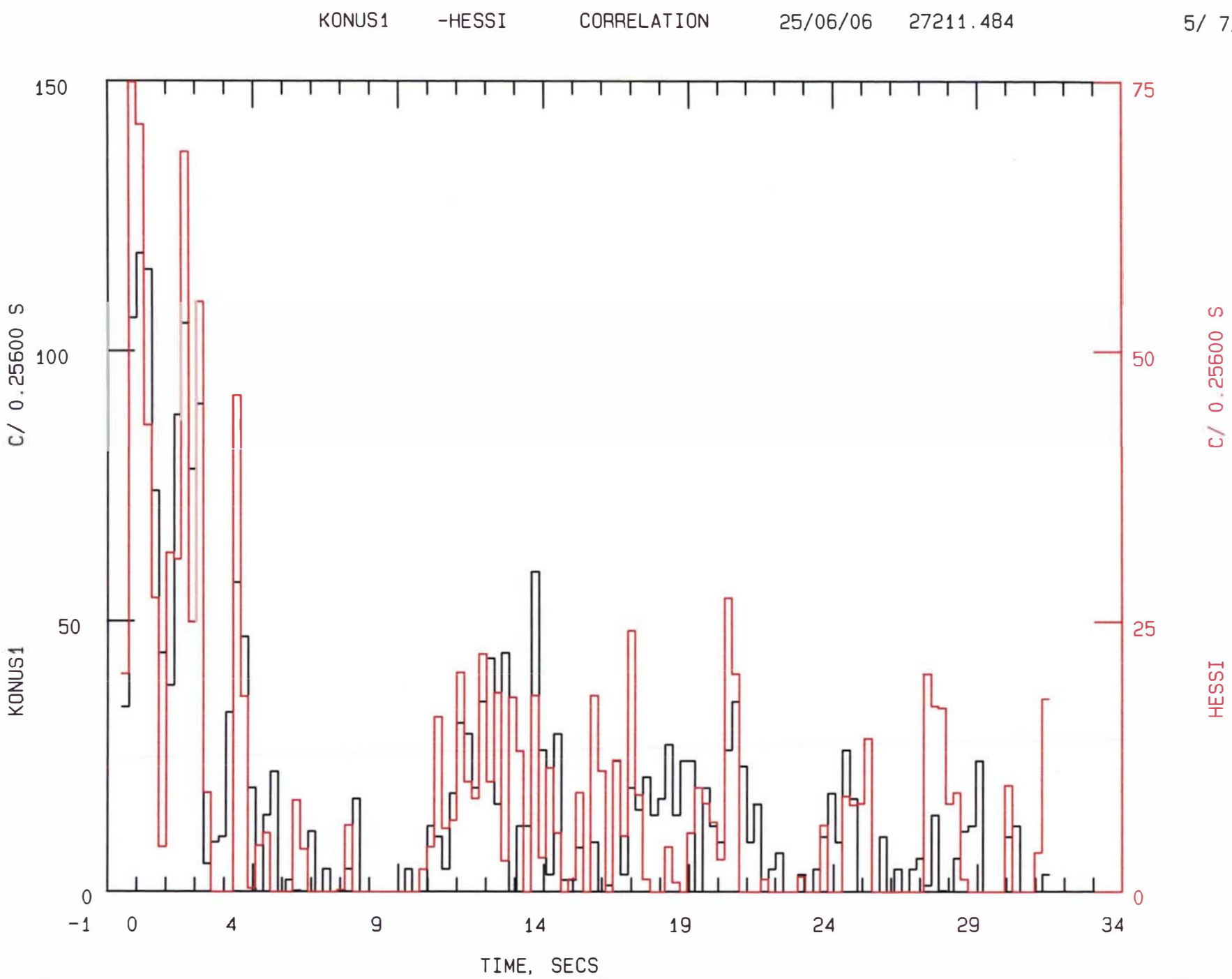
MO GE -HESSI CORRELATION 25/06/06 27632.805



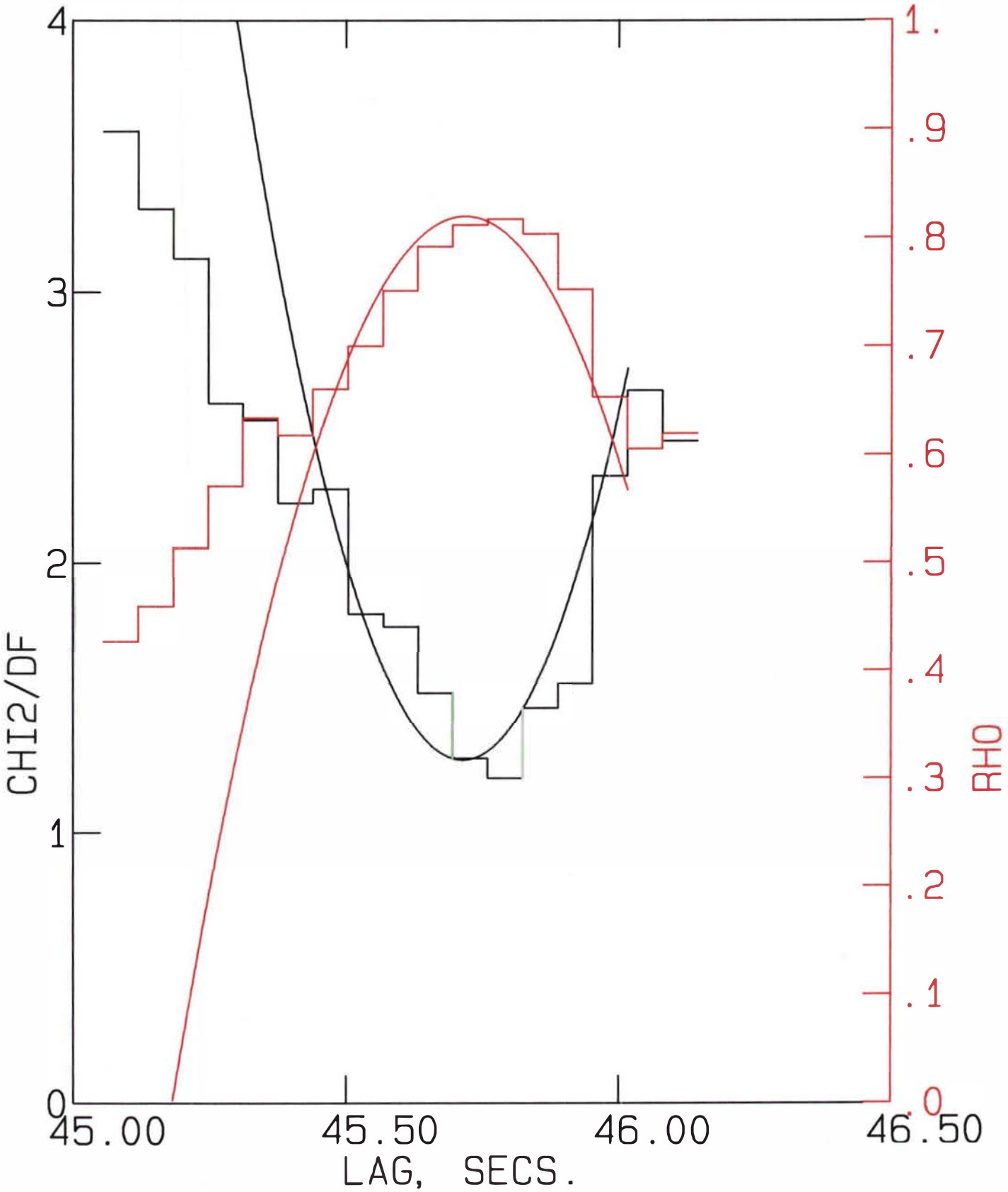

KONUS1 -MO GE CORRELATION 25/06/06 27211.484 5/ 7/ 6
200
150
100
50
0
C/ 0.38400 S
KONUS1
40
30
20
10
0
C/ 0.38400 S
MO GE
-1
0
4
9
14
19
24
29
34
TIME, SECS

KONUS1 -MO GE CORRELATION 25/06/06 27211.484



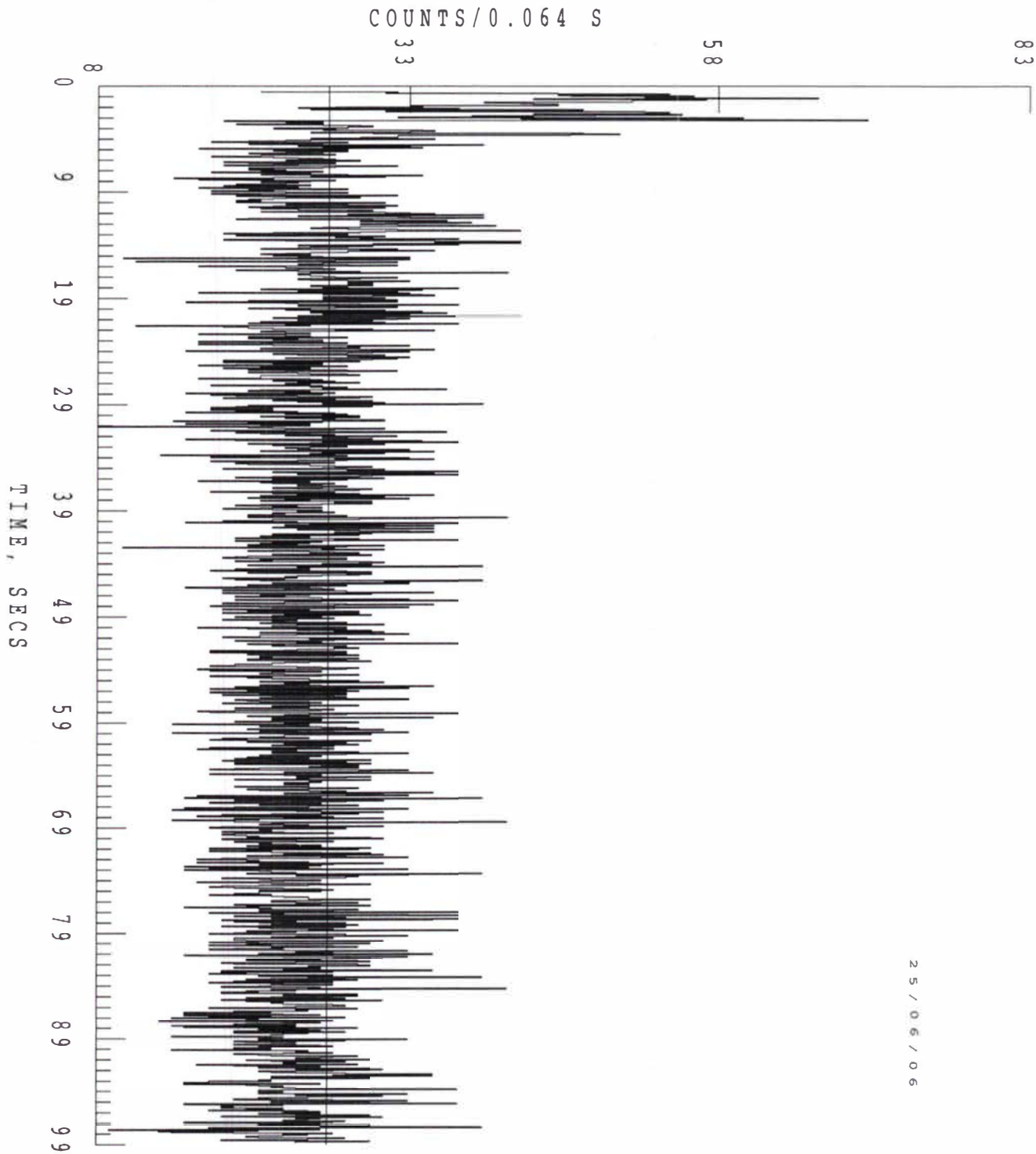

KONUS1 -HESSI CORRELATION 25/06/06 27211.484
5/ 7/ 6
150
100
50
0
75
50
25
0
C/ 0.25600 S
KONUS1
C/ 0.25600 S
HESSI
-1
0
4
9
14
19
24
29
34
TIME, SECS

KONUS1 -HESSI CORRELATION 25/06/06 27211.484

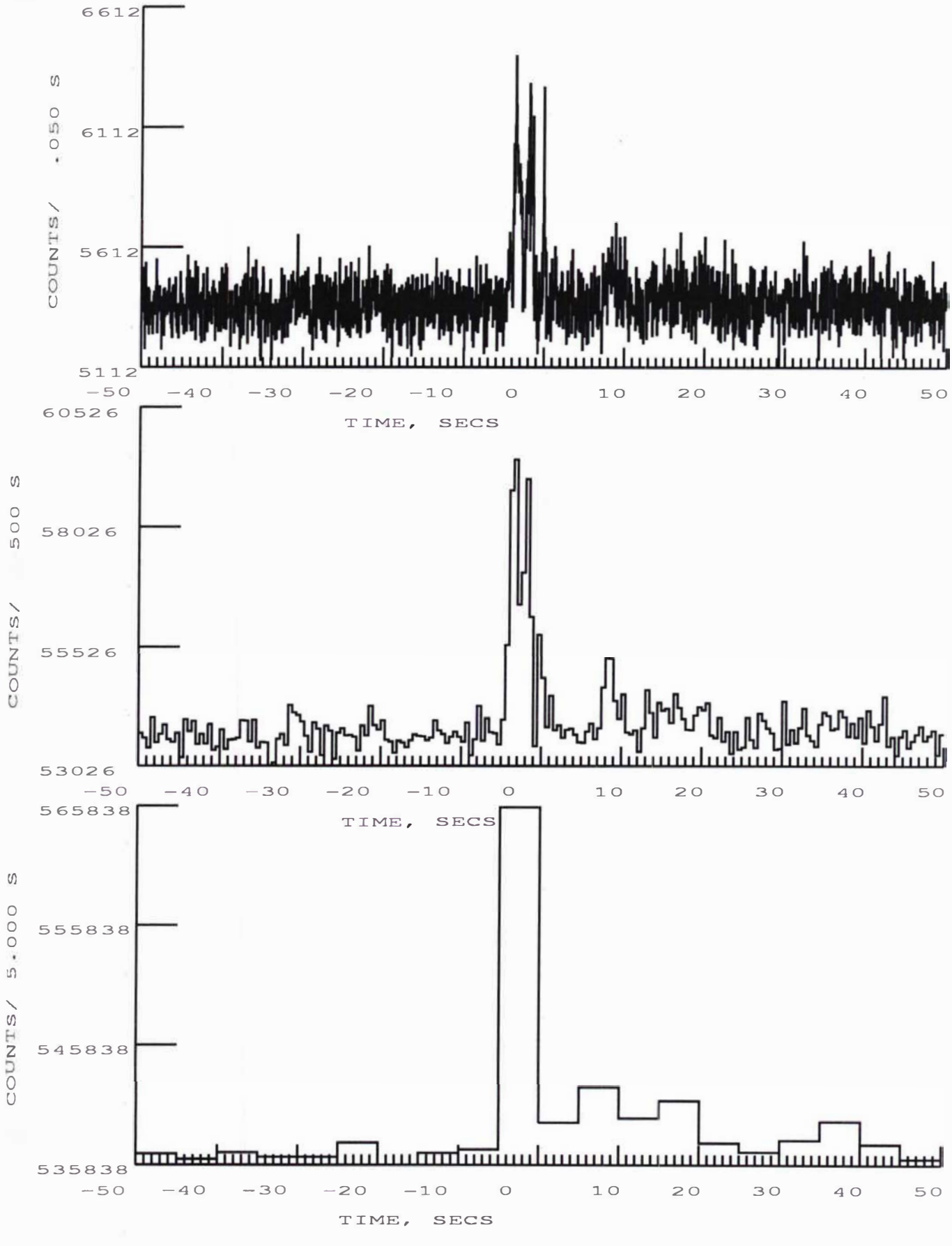


KONUS1 25/06/06 27211.484

50- 200 keV 07:33:31

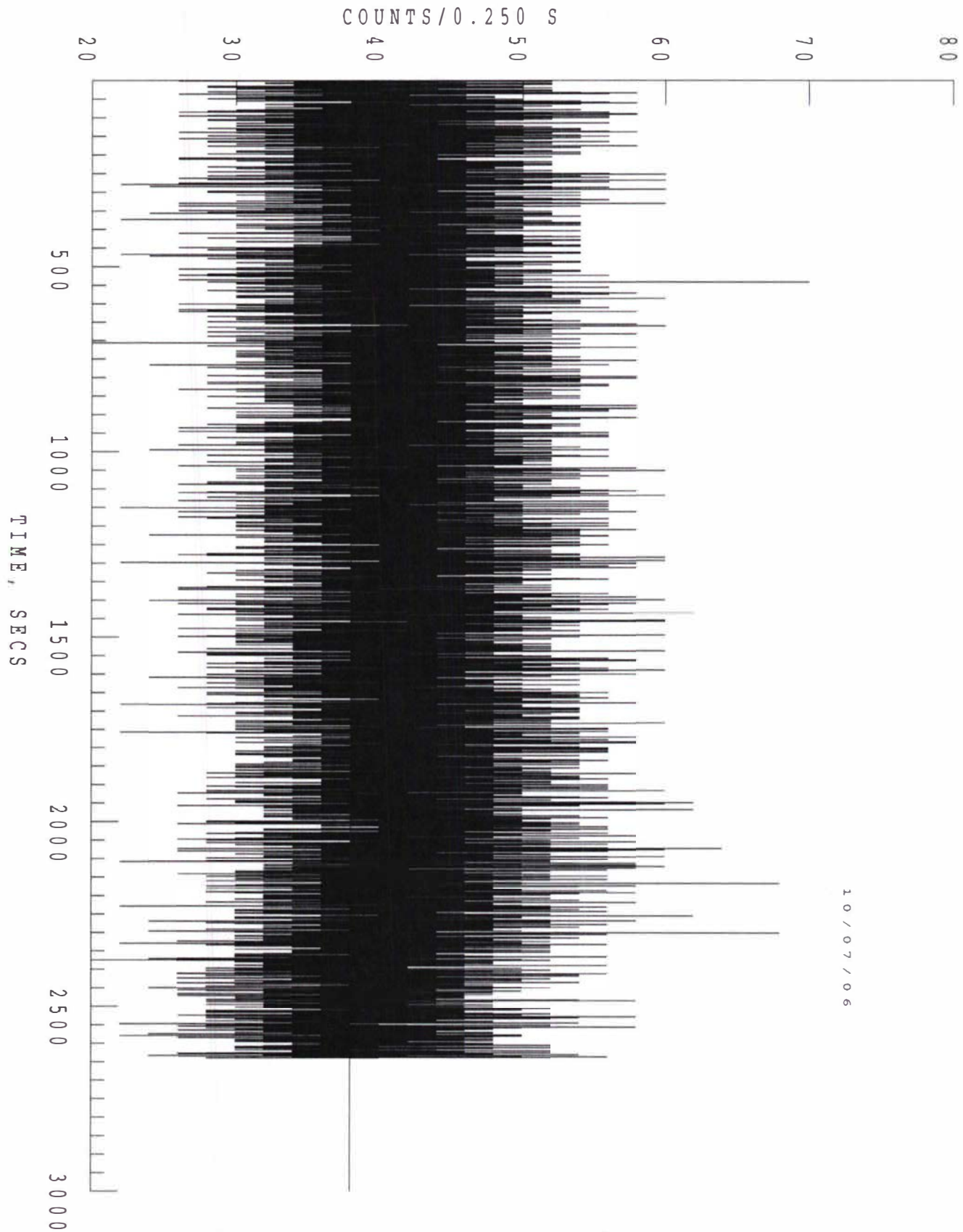


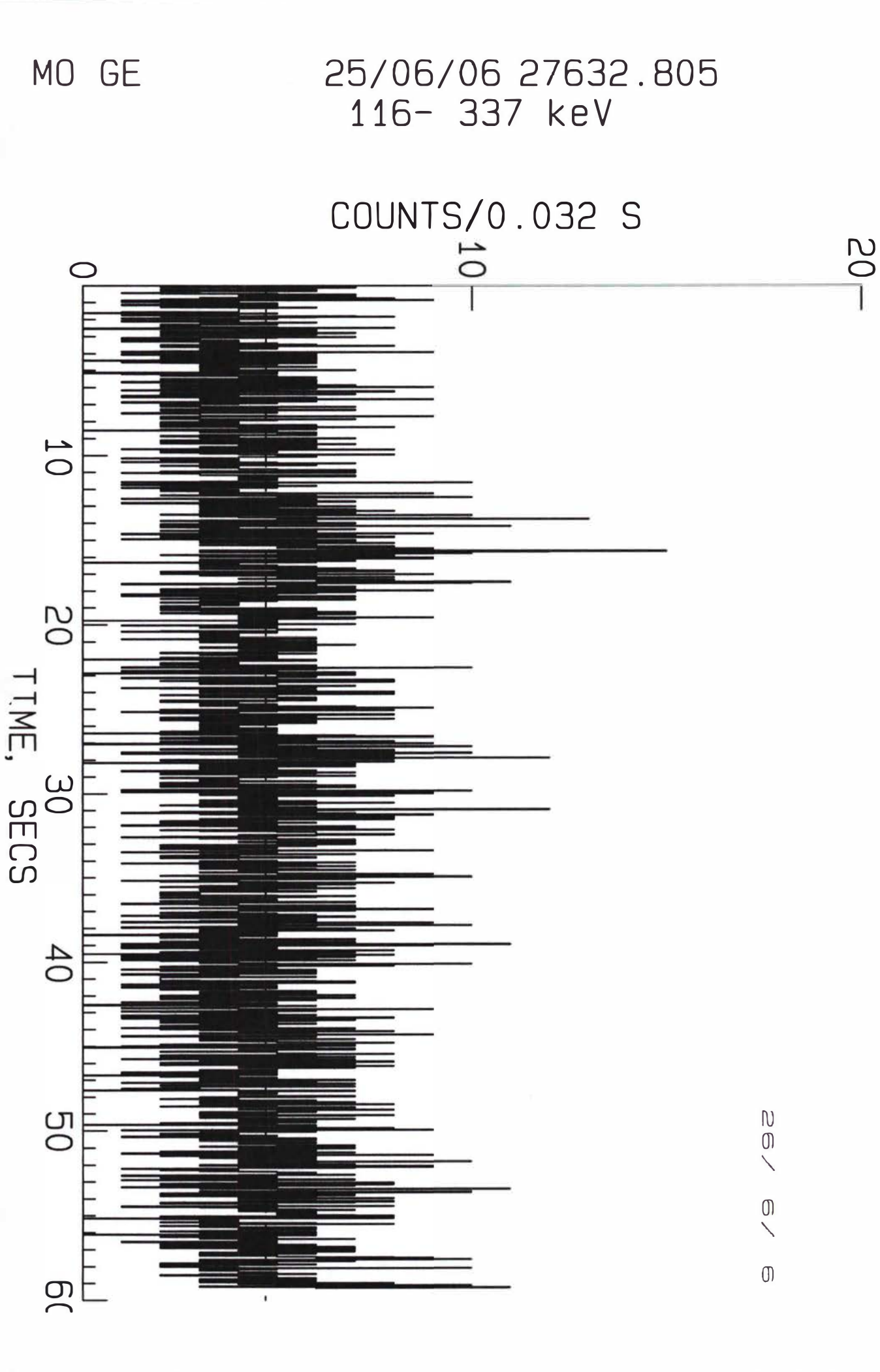
INTEGRAL 25/06/06 27211.000 07:33:31.0 11/07/14



MS01 25/06/06 25892.726

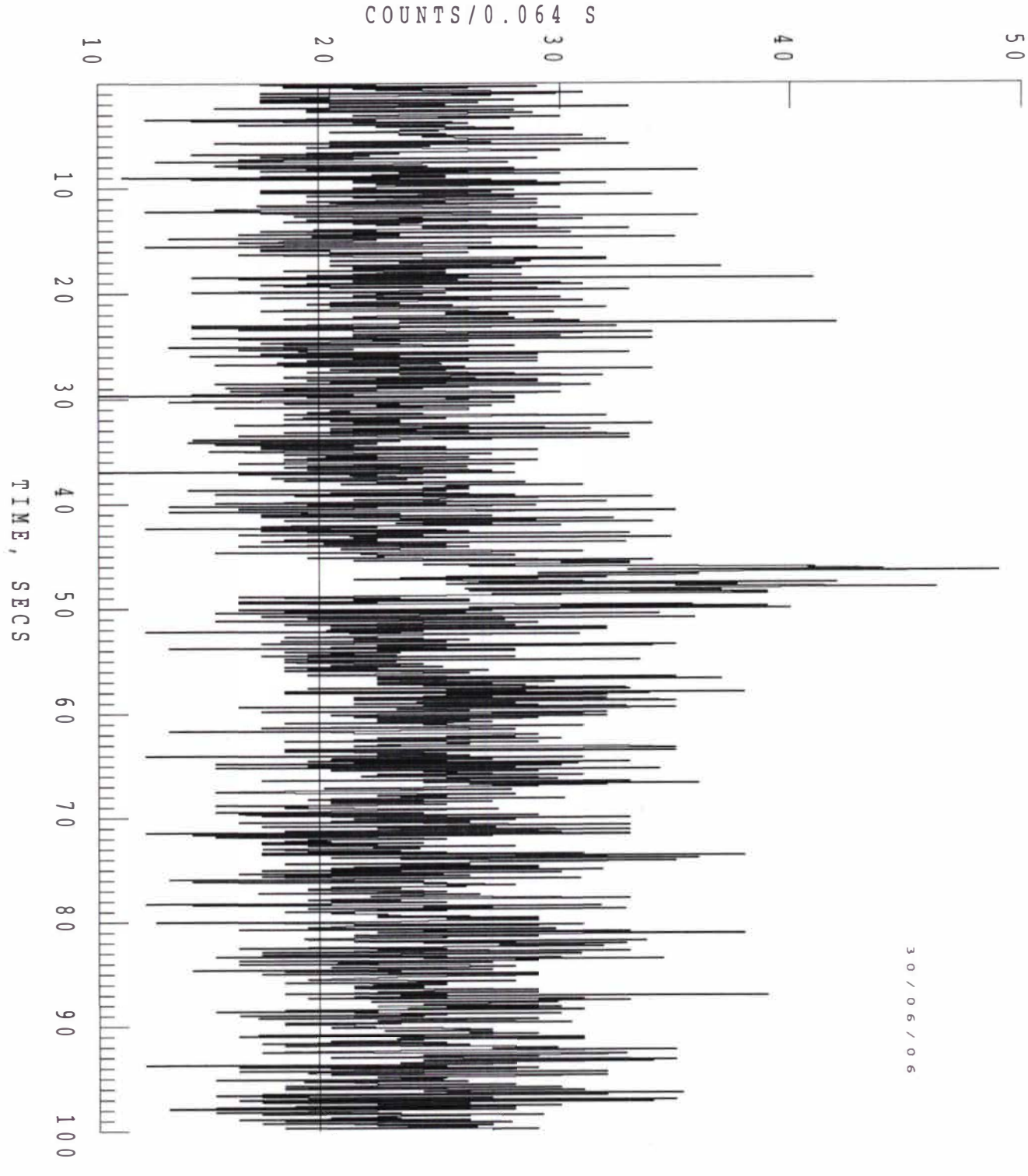
50- 3000 keV




MO GE
25/06/06 27632.805
116- 337 keV
COUNTS/0.032 S
0
10
20
TIME, SECS
10
20
30
40
50
60
26/ 6/ 6

HESSI 25/06/06 27161.000 (konus_20060625_27211)

50- 150 keV



From yamaoka@phys.aoyama.ac.jp Mon Jun 26 04:47:48 2006
X-ASG-Debug-ID: 1151322496-1aee00540000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: scmailgw2.scop.aoyama.ac.jp[133.2.251.195]
X-Barracuda-Start-Time: 1151322496
To: val@mail.ioffe.ru
Cc: khurley@ssl.berkeley.edu, jayc@milkyway.gsfc.nasa.gov,
        roland@space.mit.edu, golen@mail.ioffe.ru,
        krimm@milkyway.gsfc.nasa.gov, ohno@hirax7.hepl.hiroshima-u.ac.jp
Cc: yamaoka@phys.aoyama.ac.jp
X-ASG-Orig-Subj: Re: long bright GRB detected by Konus-Wind on June 24
Subject: Re: long bright GRB detected by Konus-Wind on June 24
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
Date: Mon, 26 Jun 2006 20:47:19 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
X-Dispatcher: imput version 20000228(IM140)
X-Barracuda-Bayes: INNOCENT GLOBAL 0.1277 1.0000 -1.2289
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-Barracuda-Spam-Report: Code version 3.02, rules version 3.0.15591
        Rule breakdown below pts rule name   description
        ---- ---------------------- --

Dear Valentin,

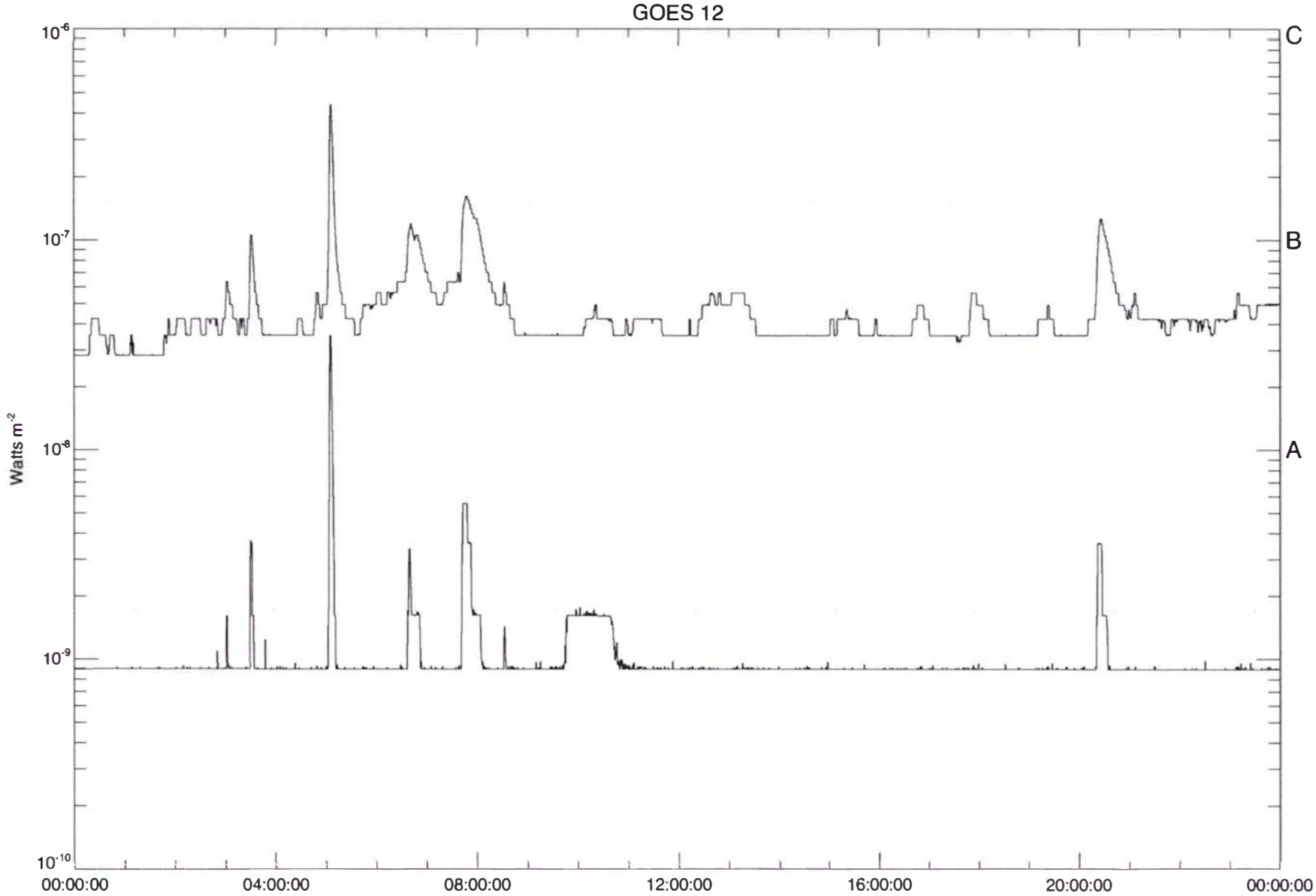
I cannot see any signals for June 24 event
 and 25 event (in the web page).

 est regards,
Kazu
on behalf of the WAM team

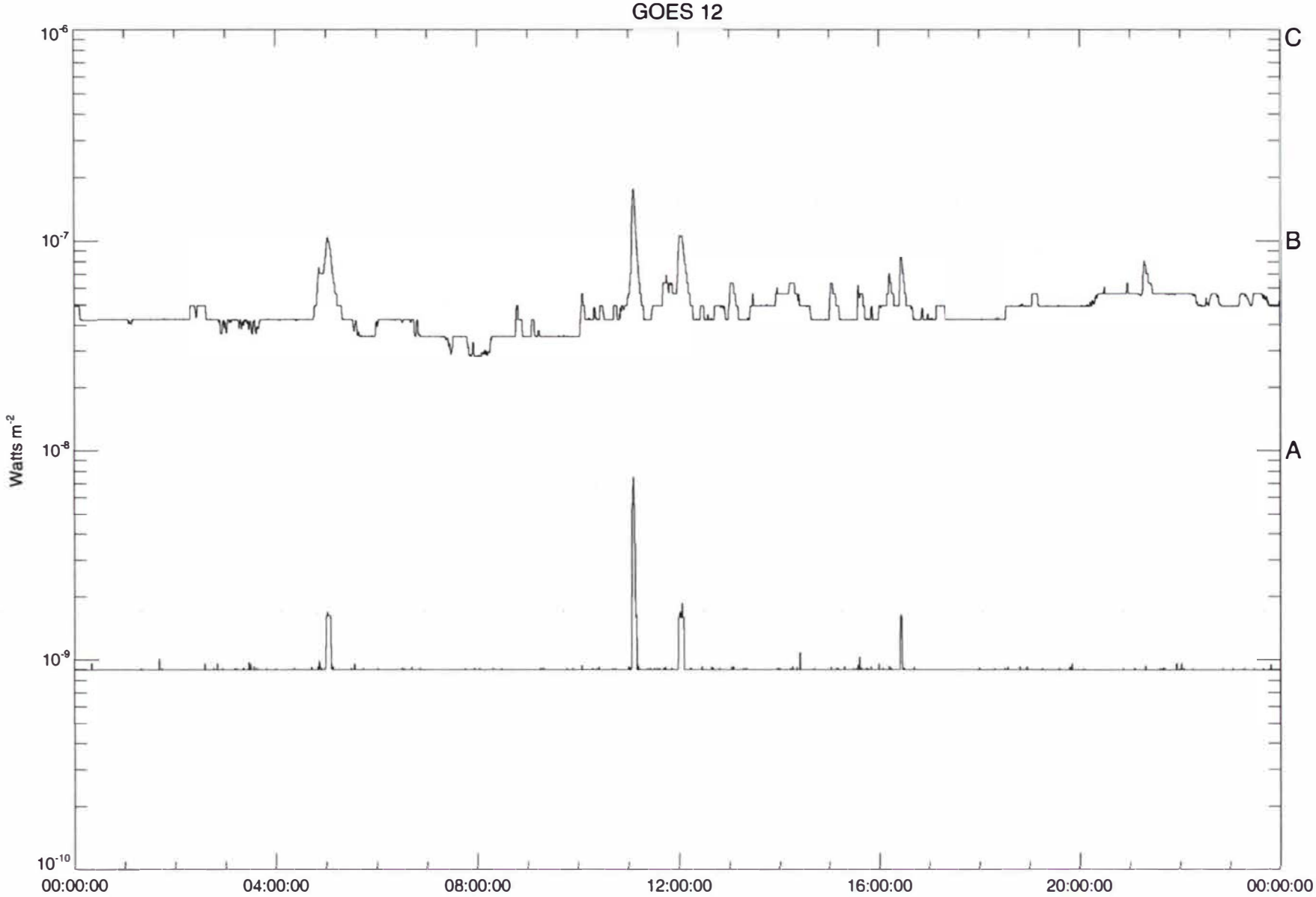
From: Val <val@mail.ioffe.ru>
Subject: long bright GRB detected by Konus-Wind on June 24
Date: Sun, 25 Jun 2006 20:48:49 +0400
Message-ID: <449EBE71.20905@mail.ioffe.ru>

> Dear colleagues,
>
> A long bright GRB triggered Konus-Wind at 2006-06-24 T0=49615.385 s UT
> (13:46:55.385).
> The burst shows ~10-s long relatively weak emission and the main
> pulse at T-T0~1.5 sec.
> The source of the burst is near the ecliptic plane.
> The peak count rate is ~10000 cts/sec (in the 18-1160 keV range).
> Despite the burst brightness, it is unusually soft: there is no emission
> in G3 band except the peak.
>
> Any other detections?
>
> Best wishes,
>
> Valentin
> --

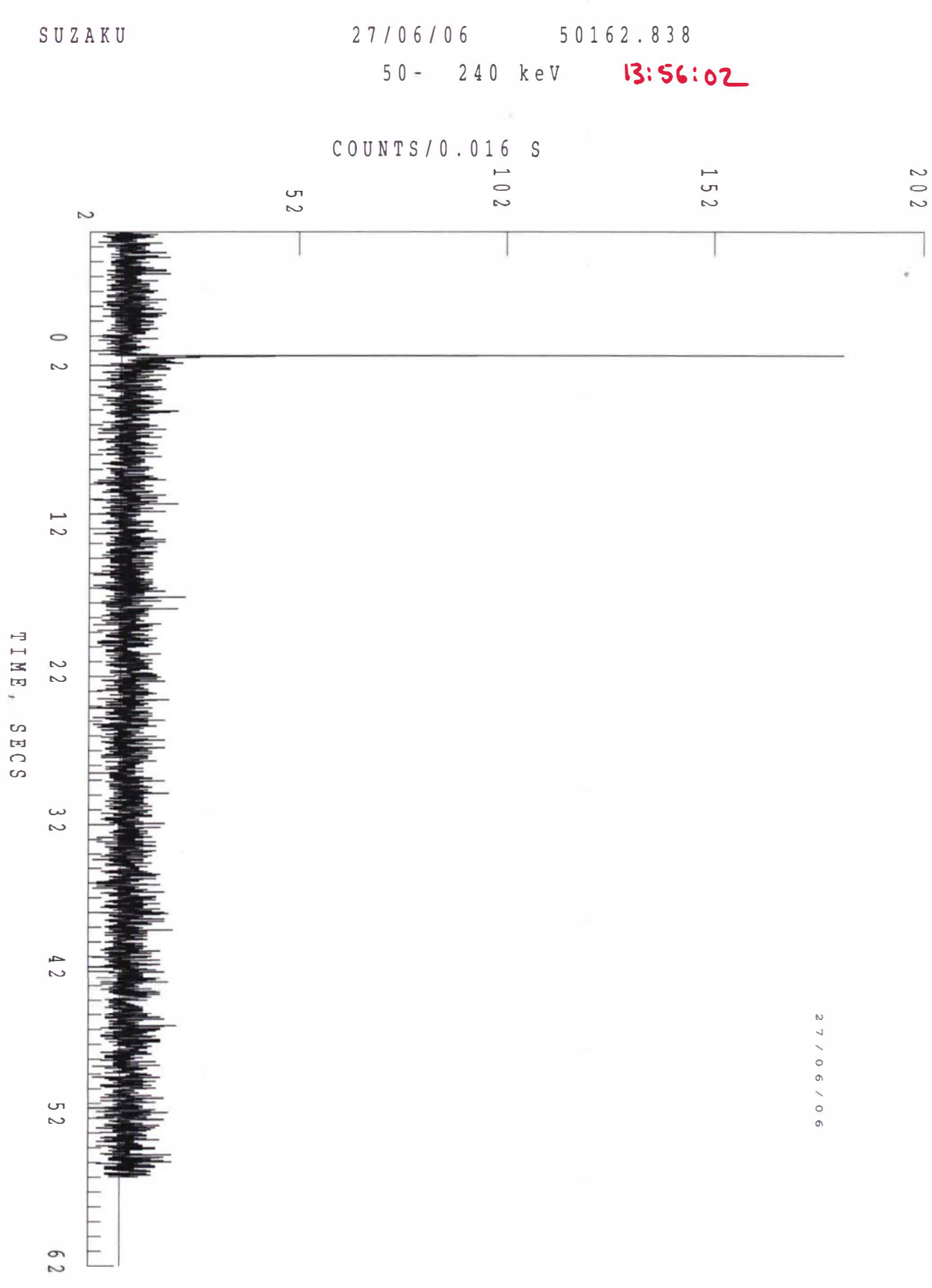
> Valentin Pal'shin
>
> Ioffe Physico-Technical Institute
> Laboratory for Experimental Astrophysics



Data Start: 06/06/25, 0000:00 Plot created: 06/09/08, 2215
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

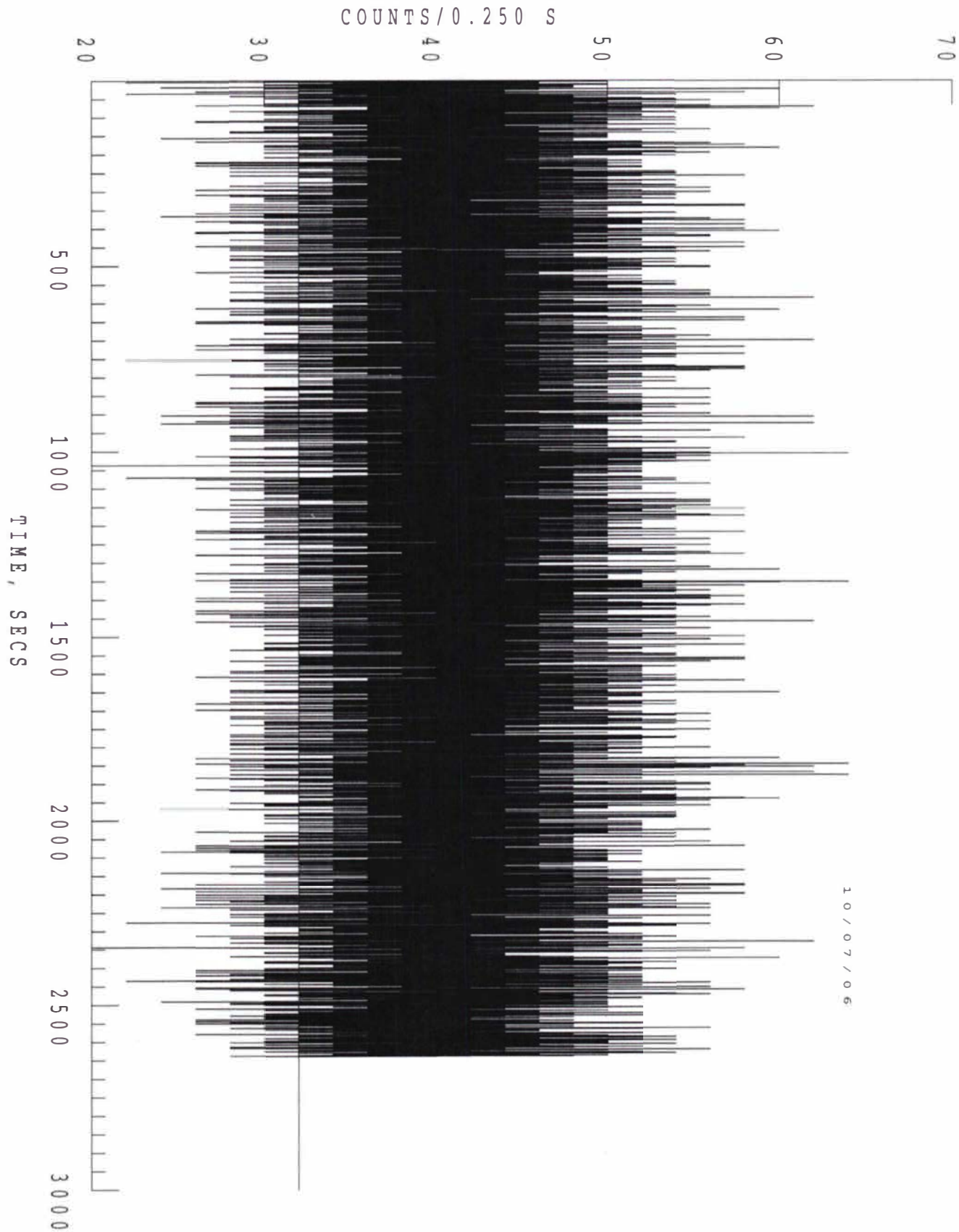


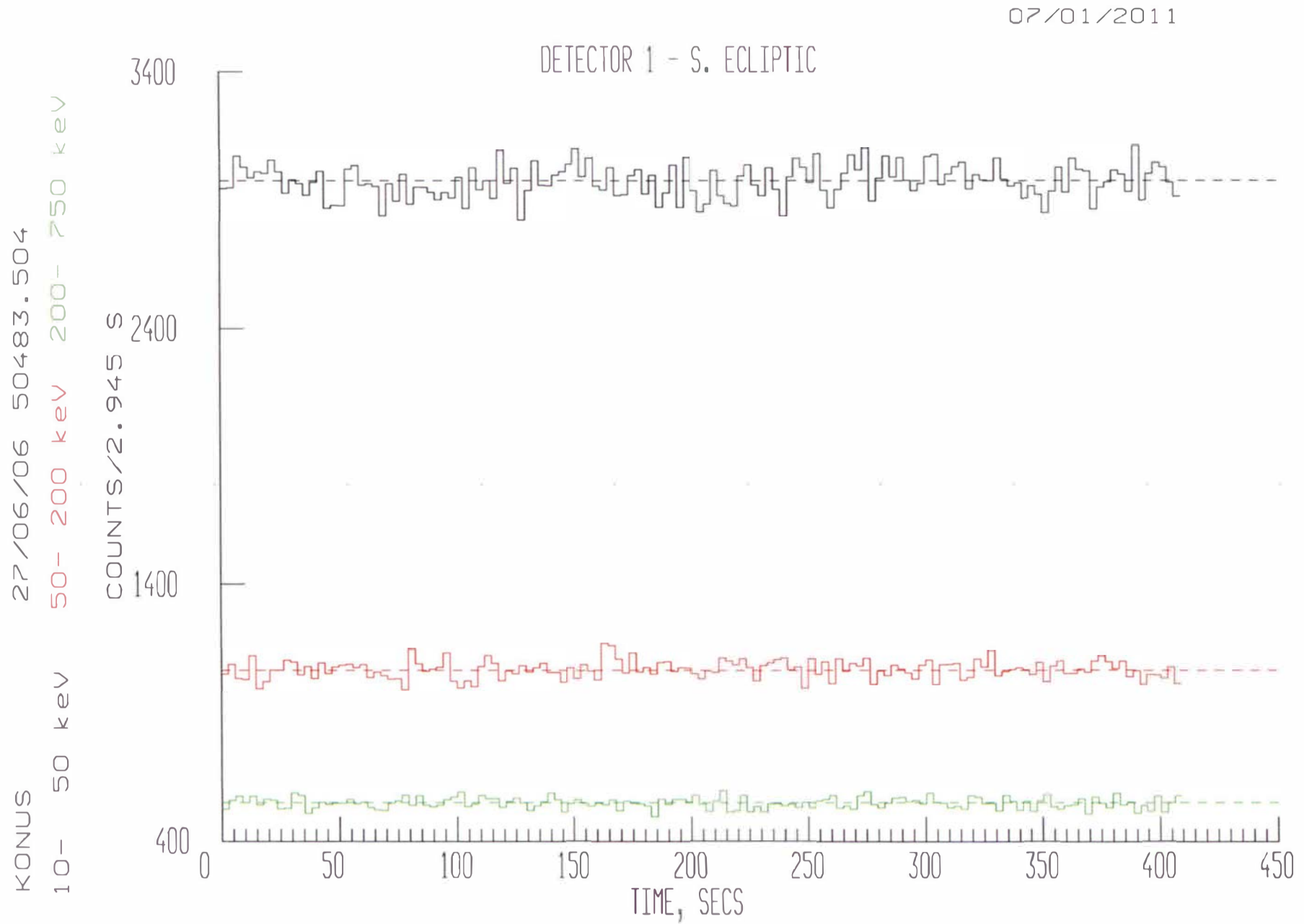
Data Start: 06/06/26, 0000:00 Plot created: 06/09/08, 2216
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10


SUZAKU
27/06/06
50162.838
50- 240 keV
13:56:02
COUNTS/0.016 S
2
52
102
152
202
0
2
12
22
32
42
52
62
TIME, SECS
27/06/06

MS01 27/06/06 48809.174

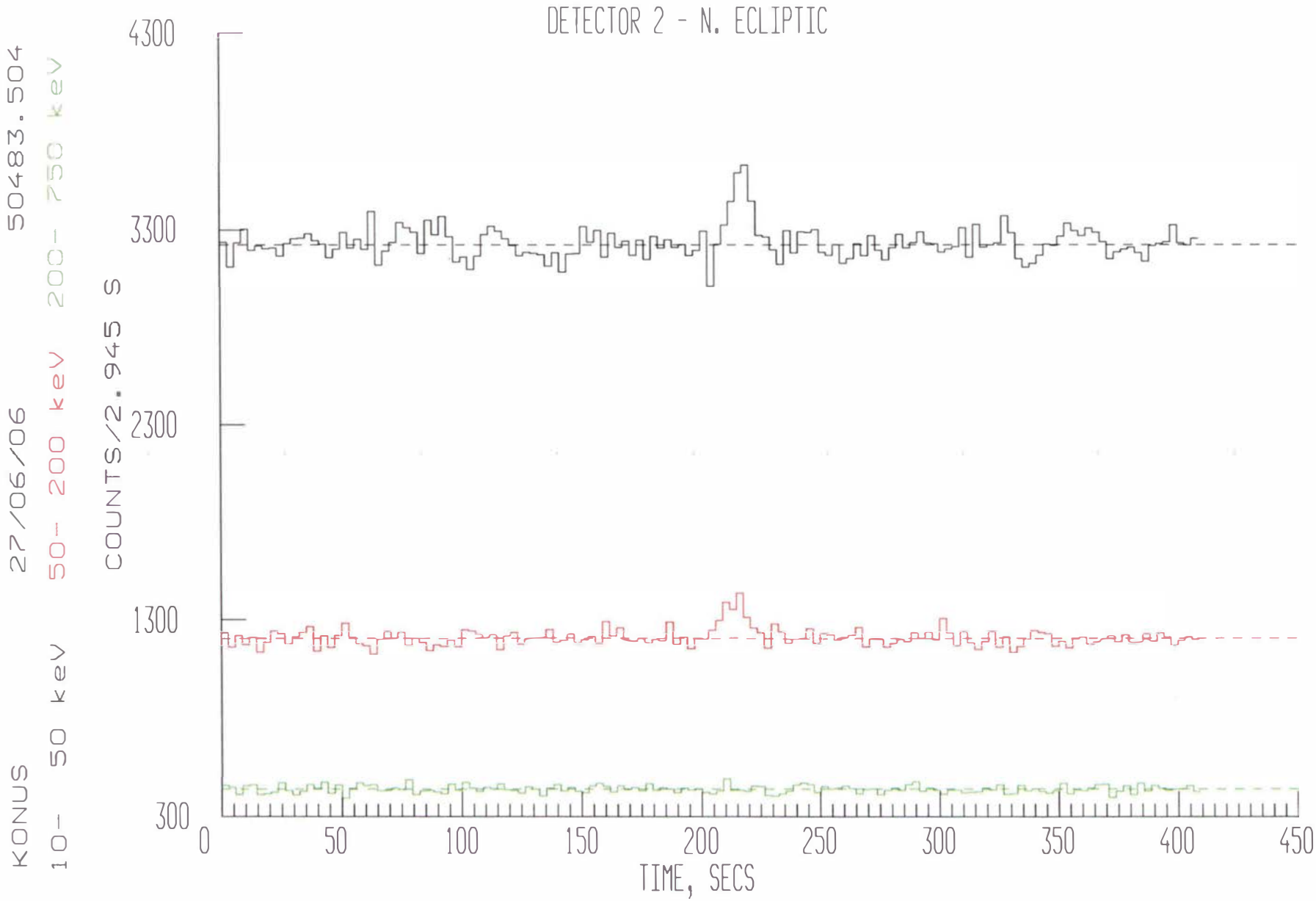
50- 3000 keV




07/01/2011
DETECTOR 1 - S. ECLIPTIC
KONUS 27/06/06 50483.504
10- 50 keV 50- 200 keV 200- 750 keV
COUNTS/2.945 S
3400
2400
1400
400
0
50
100
150
200
250
300
350
400
450
TIME, SECS

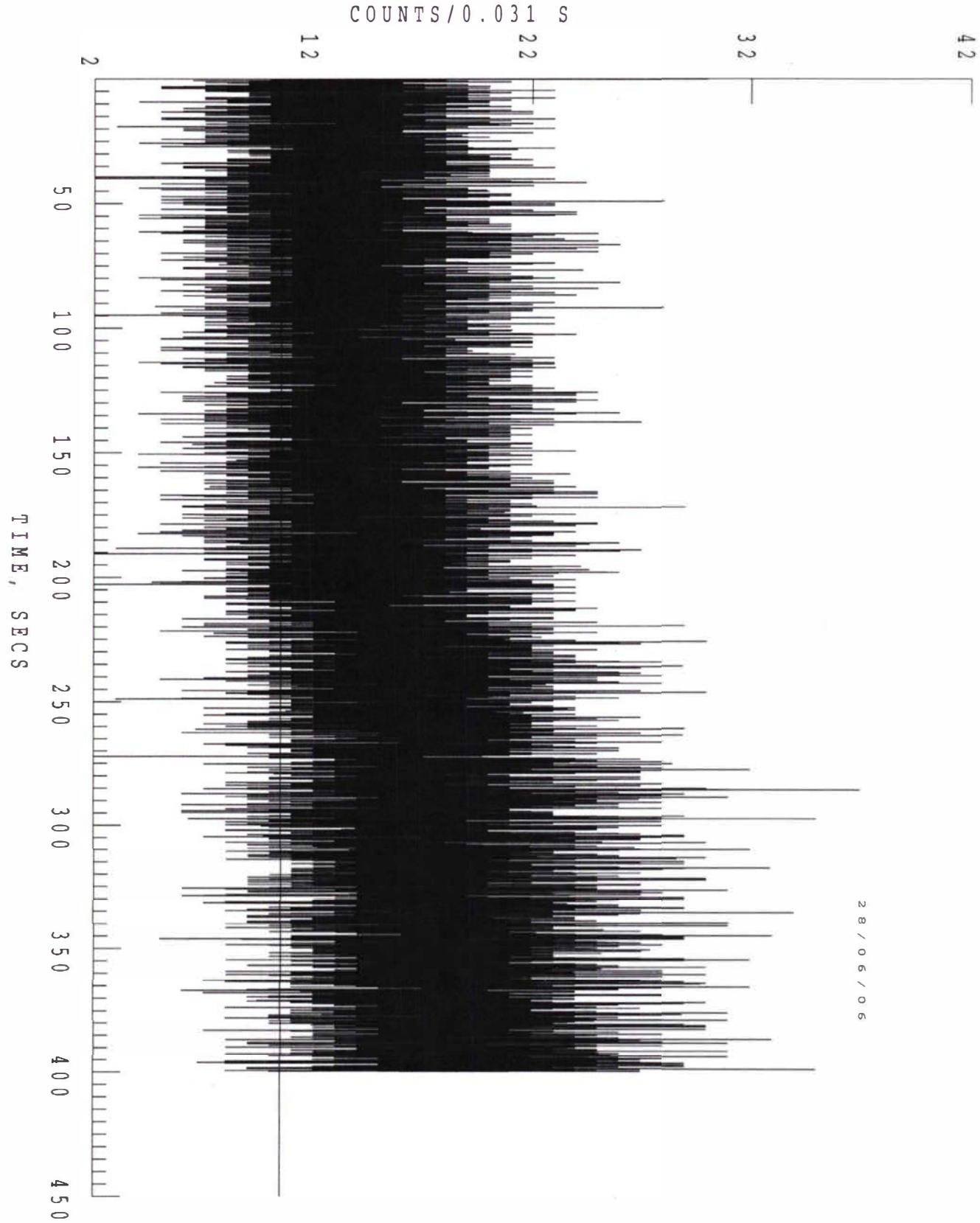
#B

07/01/2011


DETECTOR 2 - N. ECLIPTIC
KONUS
10- 50 keV
50- 200 keV
200- 750 keV
27/06/06
50483.504
COUNTS/2.945 S
4300
3300
2300
1300
300
0
50
100
150
200
250
300
350
400
450
TIME, SECS

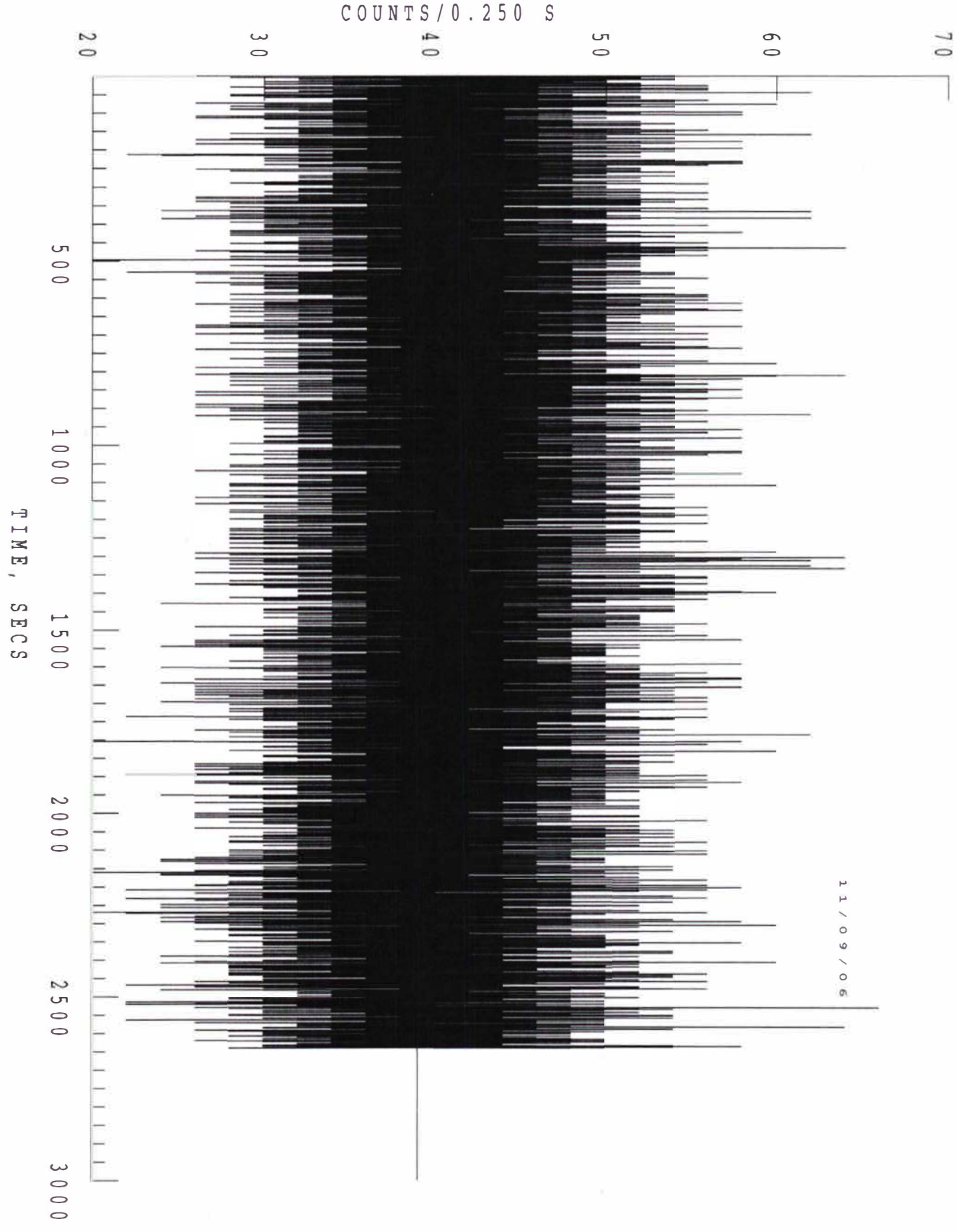
HESSI 27/06/06 49962.000 (SUZAKU_20060627_50162)

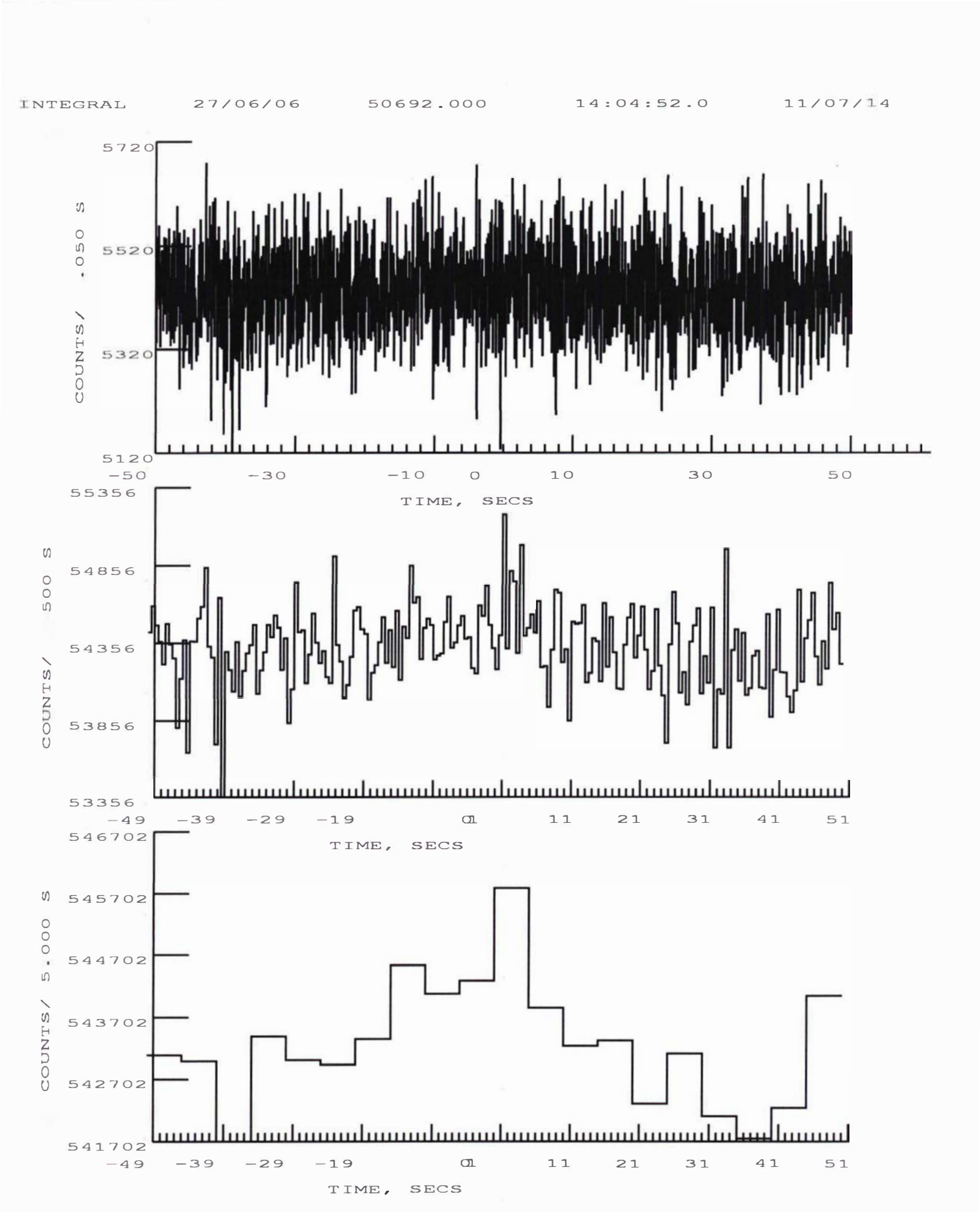
25- 150 keV

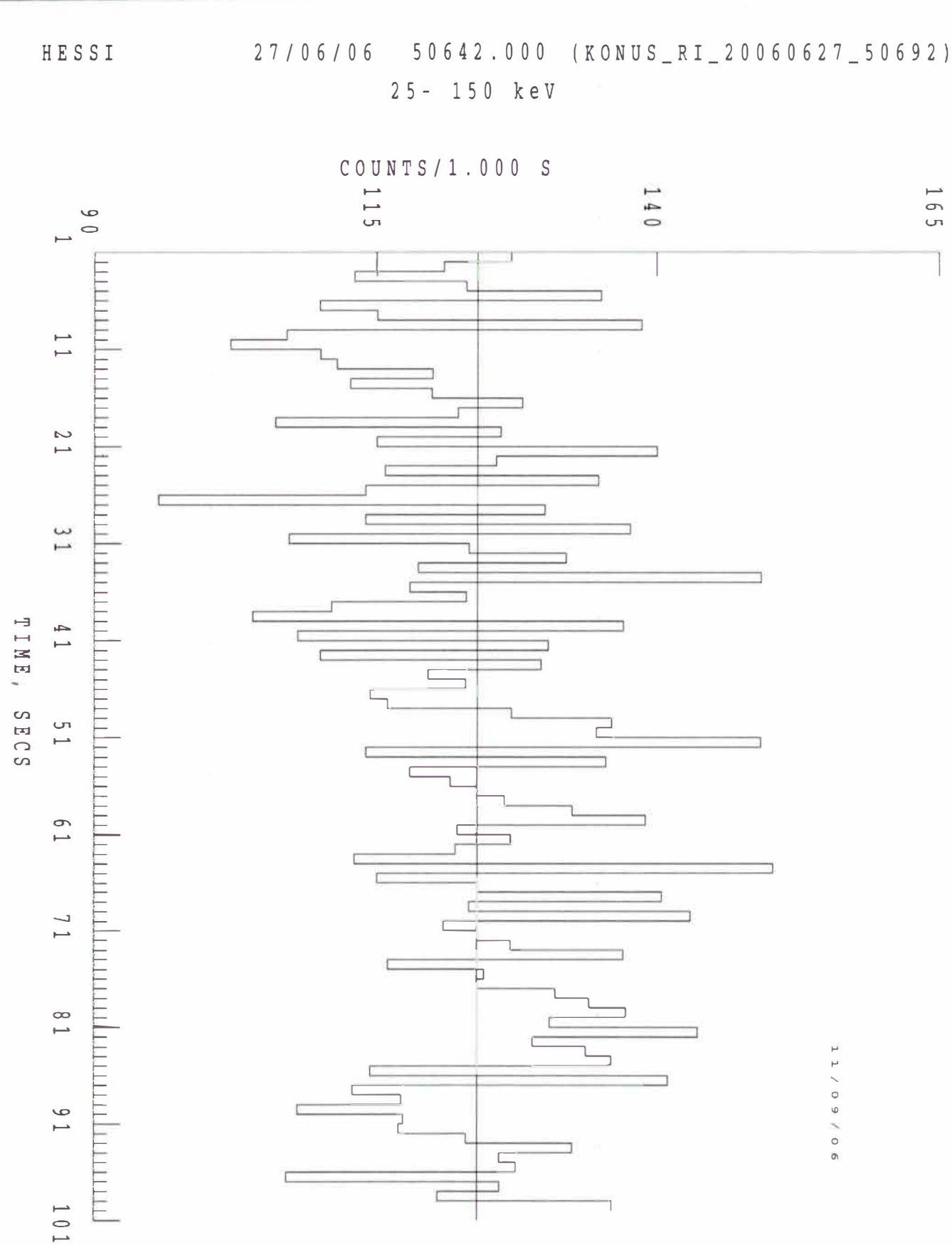


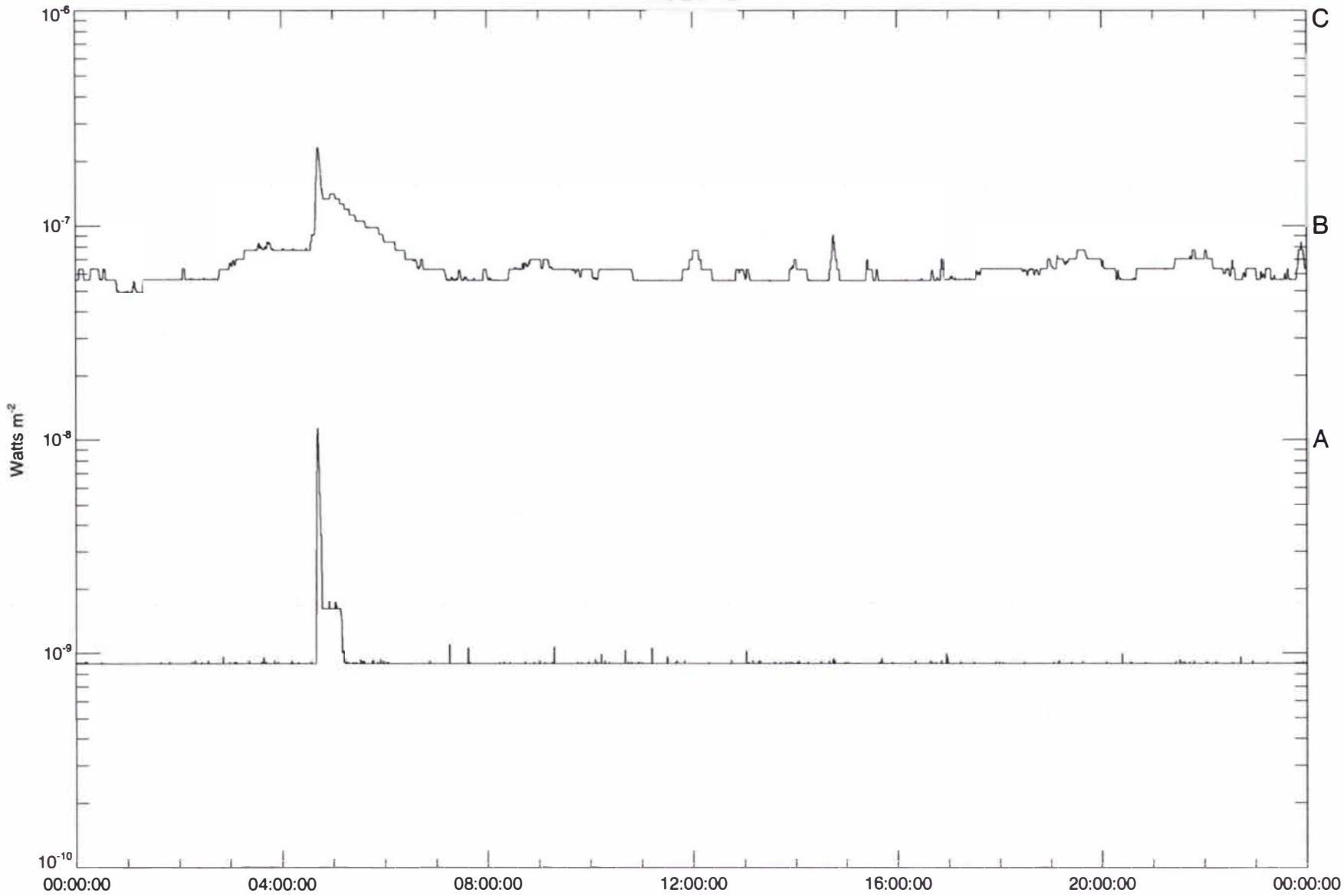
MS01 27/06/06 49349.172

50- 3000 keV




INTEGRAL 27/06/06 50692.000 14:04:52.0 11/07/14
5720
5520
5320
5120
COUNTS/ .050 S
-50 -30 -10 0 10 30 50
TIME, SECS
55356
54856
54356
53856
53356
COUNTS/ .500 S
-49 -39 -29 -19 01 11 21 31 41 51
TIME, SECS
546702
545702
544702
543702
542702
541702
COUNTS/ 5.000 S
-49 -39 -29 -19 01 11 21 31 41 51
TIME, SECS


HESSI 27/06/06 50642.000 (KONUS_RI_20060627_50692)
25- 150 keV
COUNTS/1.000 S
90
115
140
165
1
11
21
31
41
51
61
71
81
91
101
TIME, SECS
11/09/06

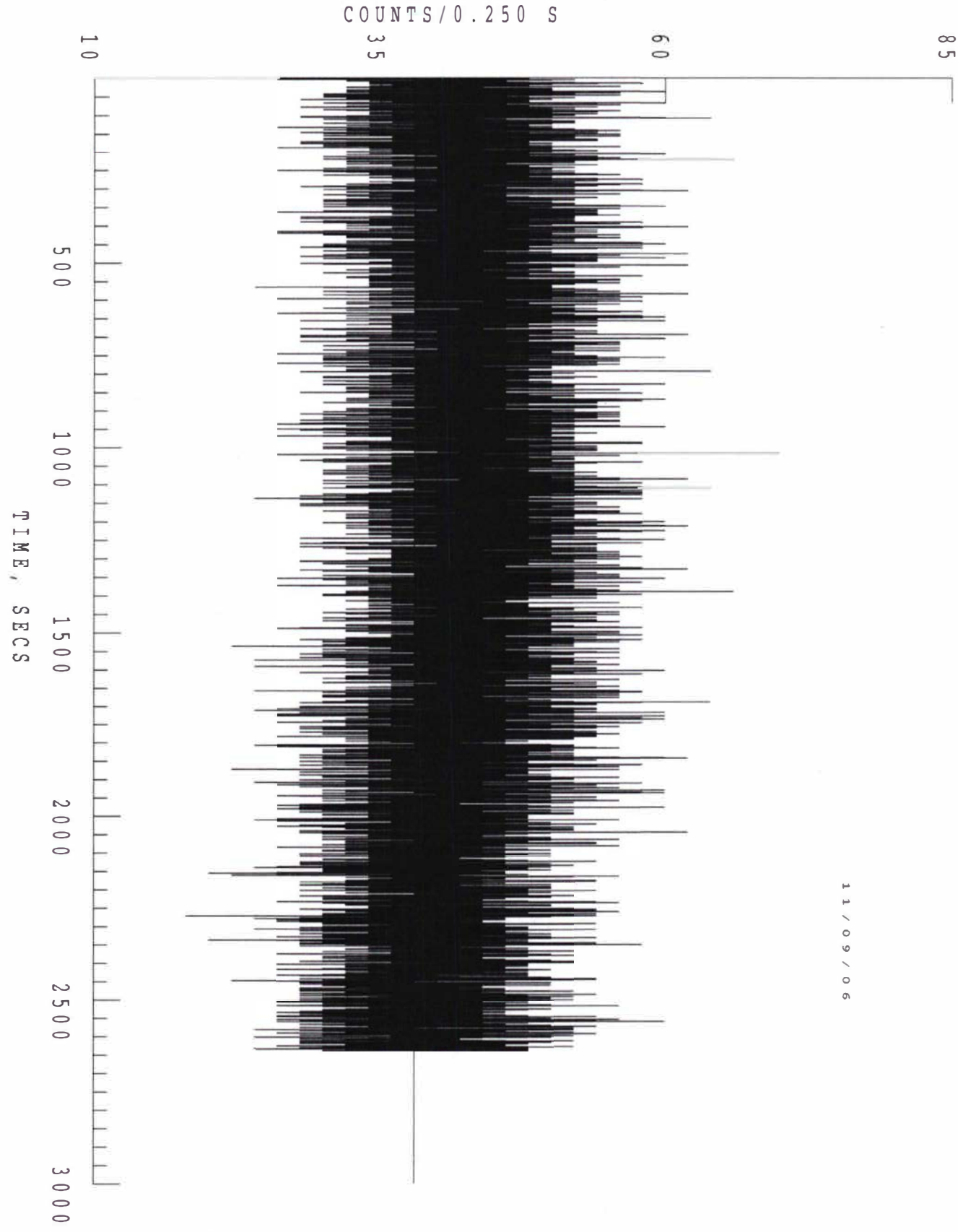


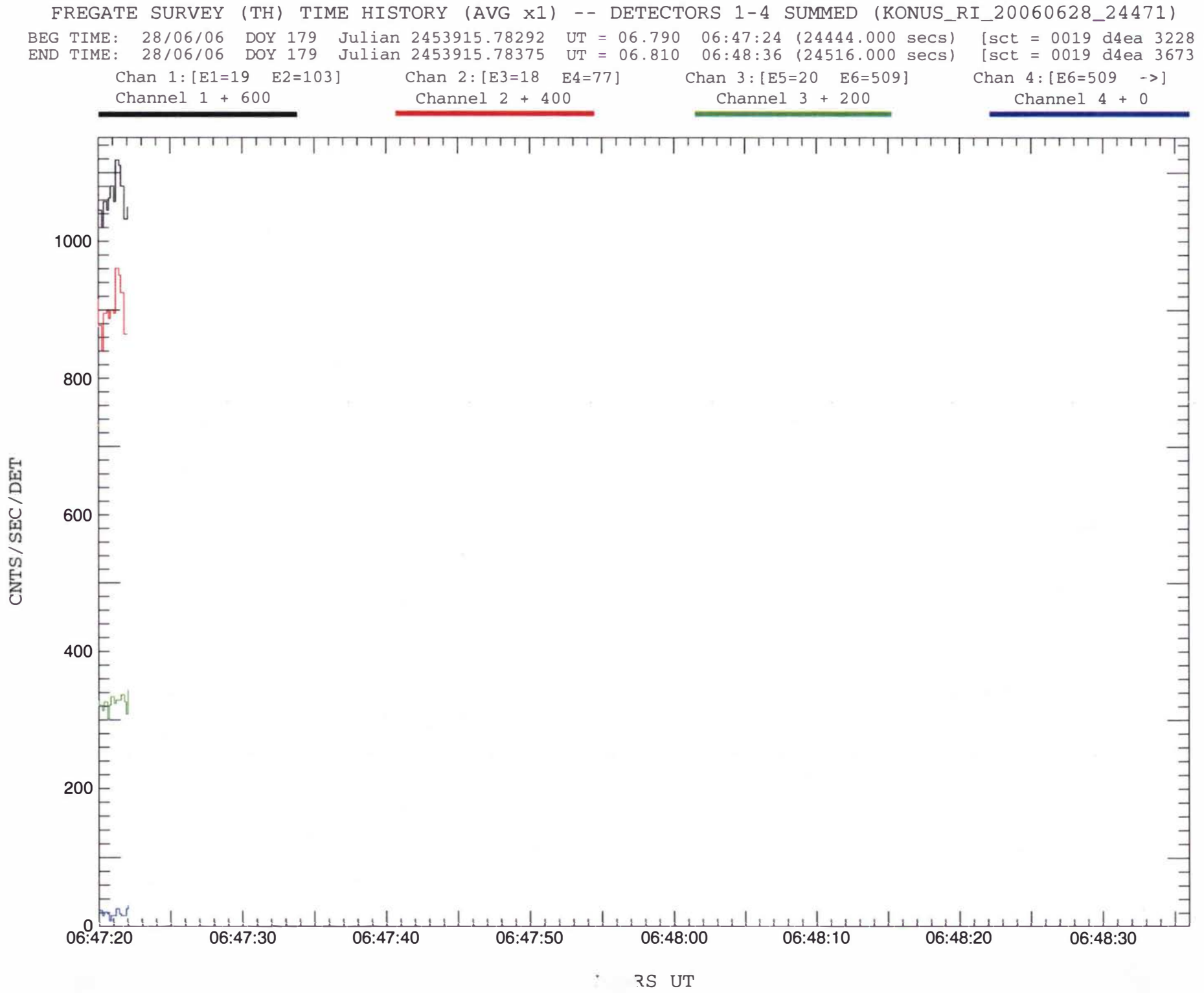
Data Start: 06/06/27, 0000:00 Plot created: 06/09/08, 2217
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

MS01 28/06/06 23128.084

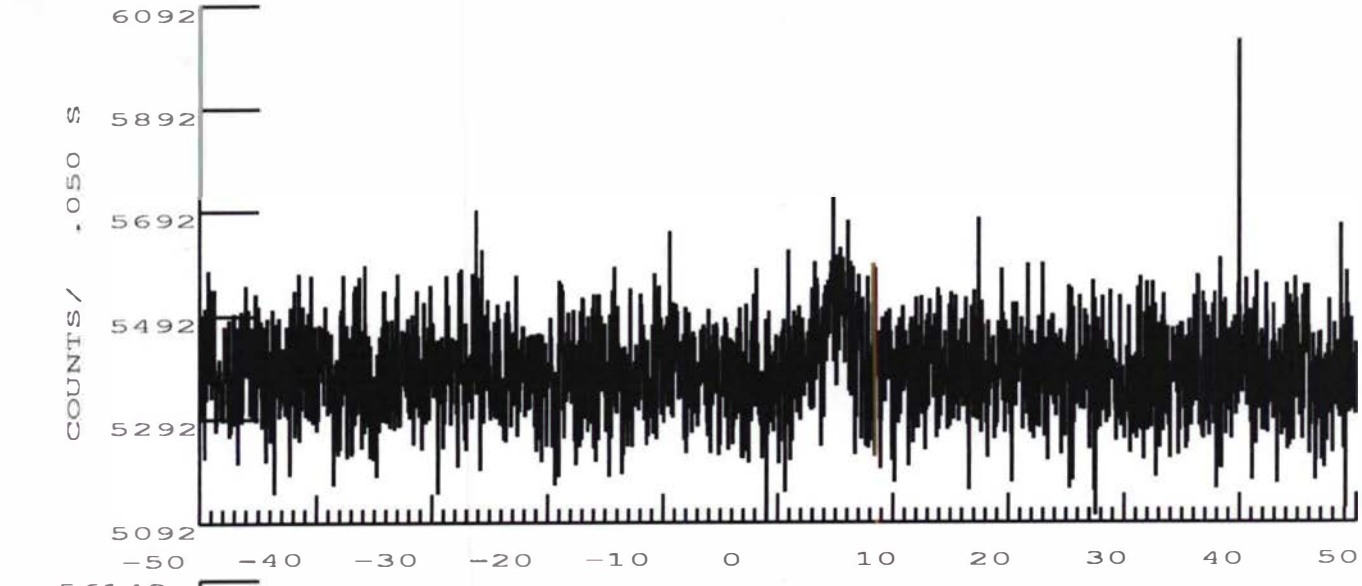
EL added to ACCESS

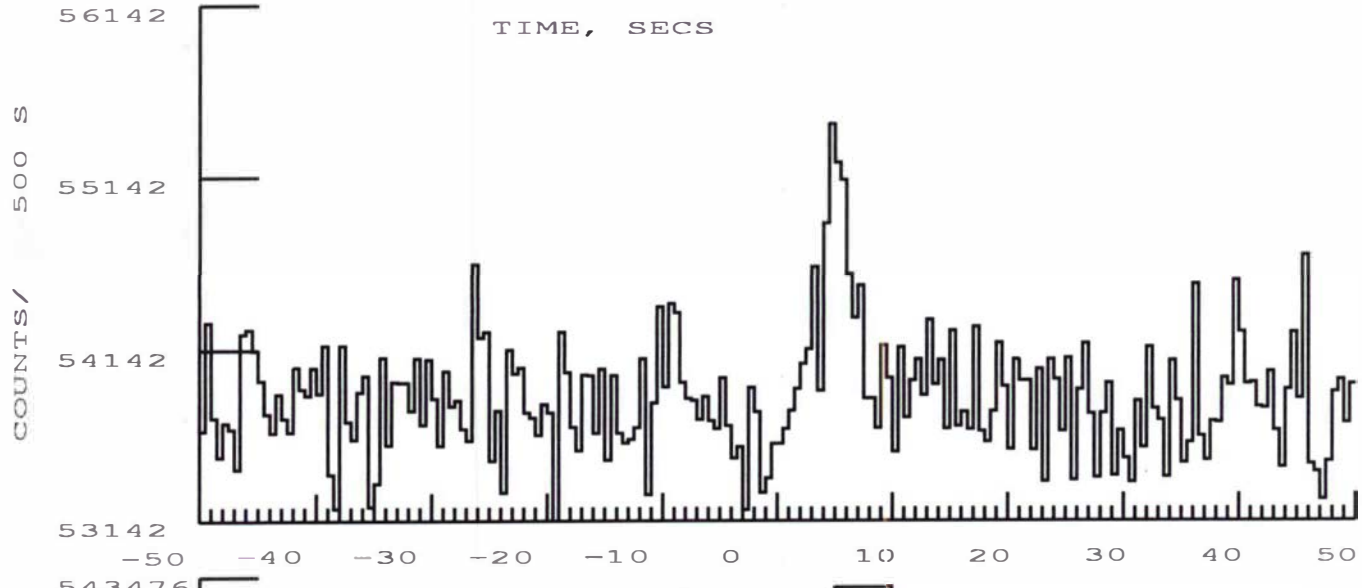
50- 3000 keV

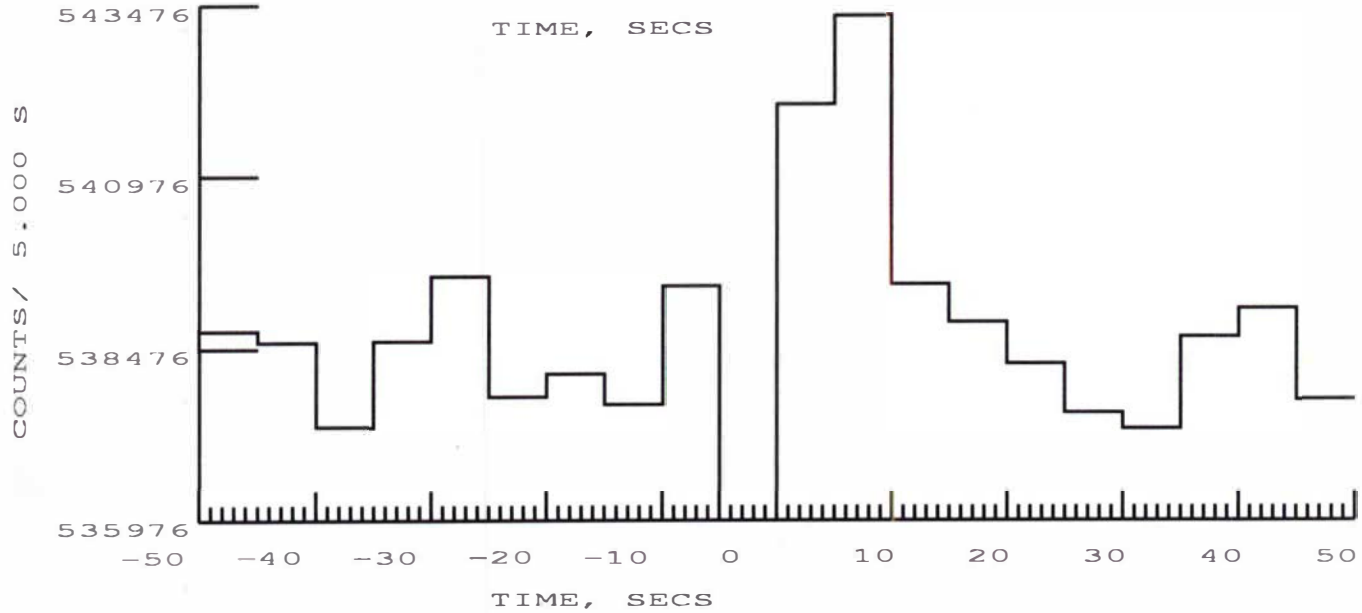


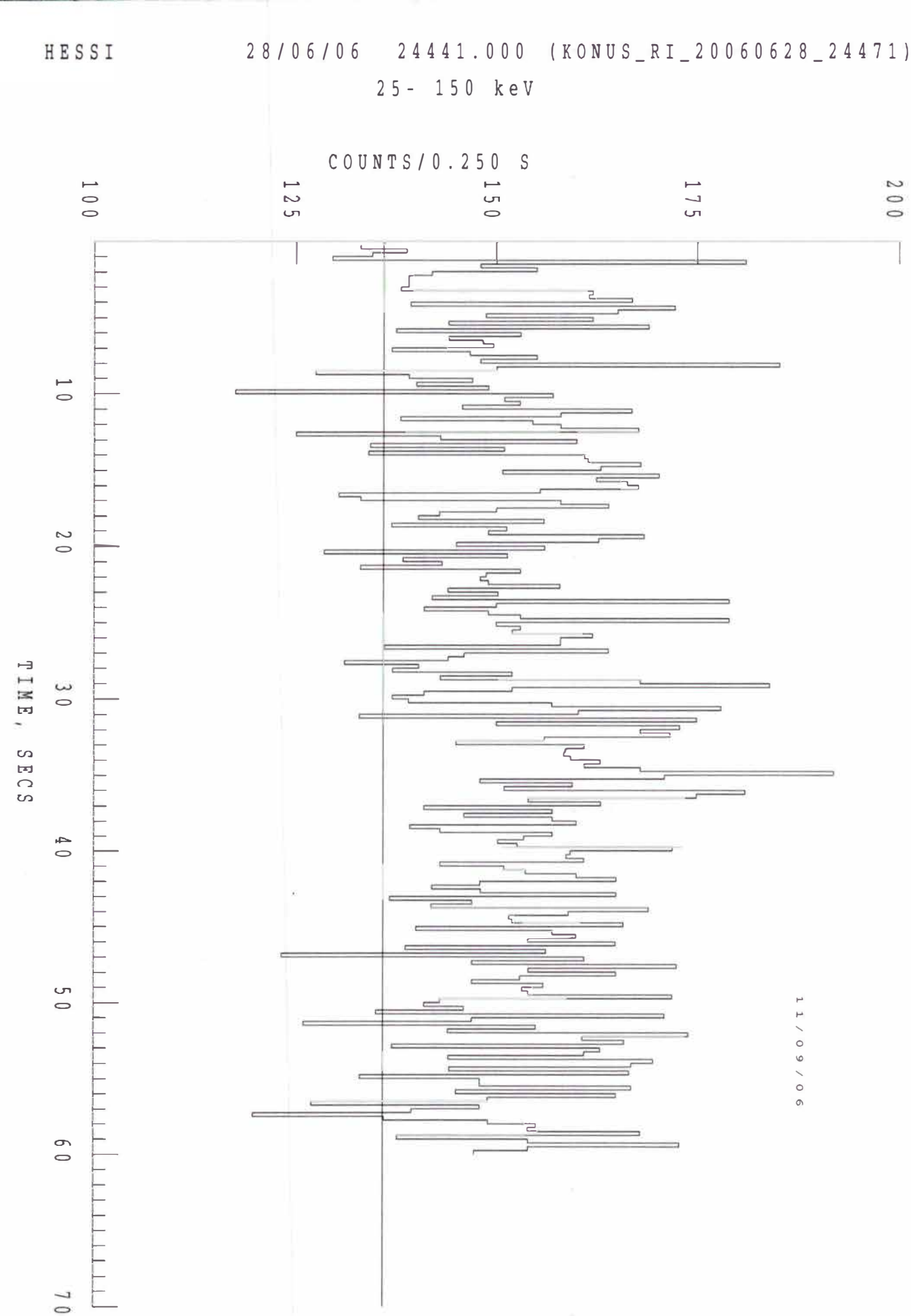

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS_RI_20060628_24471)
BEG TIME: 28/06/06 DOY 179 Julian 2453915.78292 UT = 06.790 06:47:24 (24444.000 secs) [sct = 0019 d4ea 3228 9338]
END TIME: 28/06/06 DOY 179 Julian 2453915.78375 UT = 06.810 06:48:36 (24516.000 secs) [sct = 0019 d4ea 3673 3735]
Chan 1:[E1=19 E2=103]
Channel 1 + 600
Chan 2:[E3=18 E4=77]
Channel 2 + 400
Chan 3:[E5=20 E6=509]
Channel 3 + 200
Chan 4:[E6=509 ->]
Channel 4 + 0
CNTS/SEC/DET
1000
800
600
400
200
0
06:47:20
06:47:30
06:47:40
06:47:50
06:48:00
06:48:10
06:48:20
06:48:30
RS UT

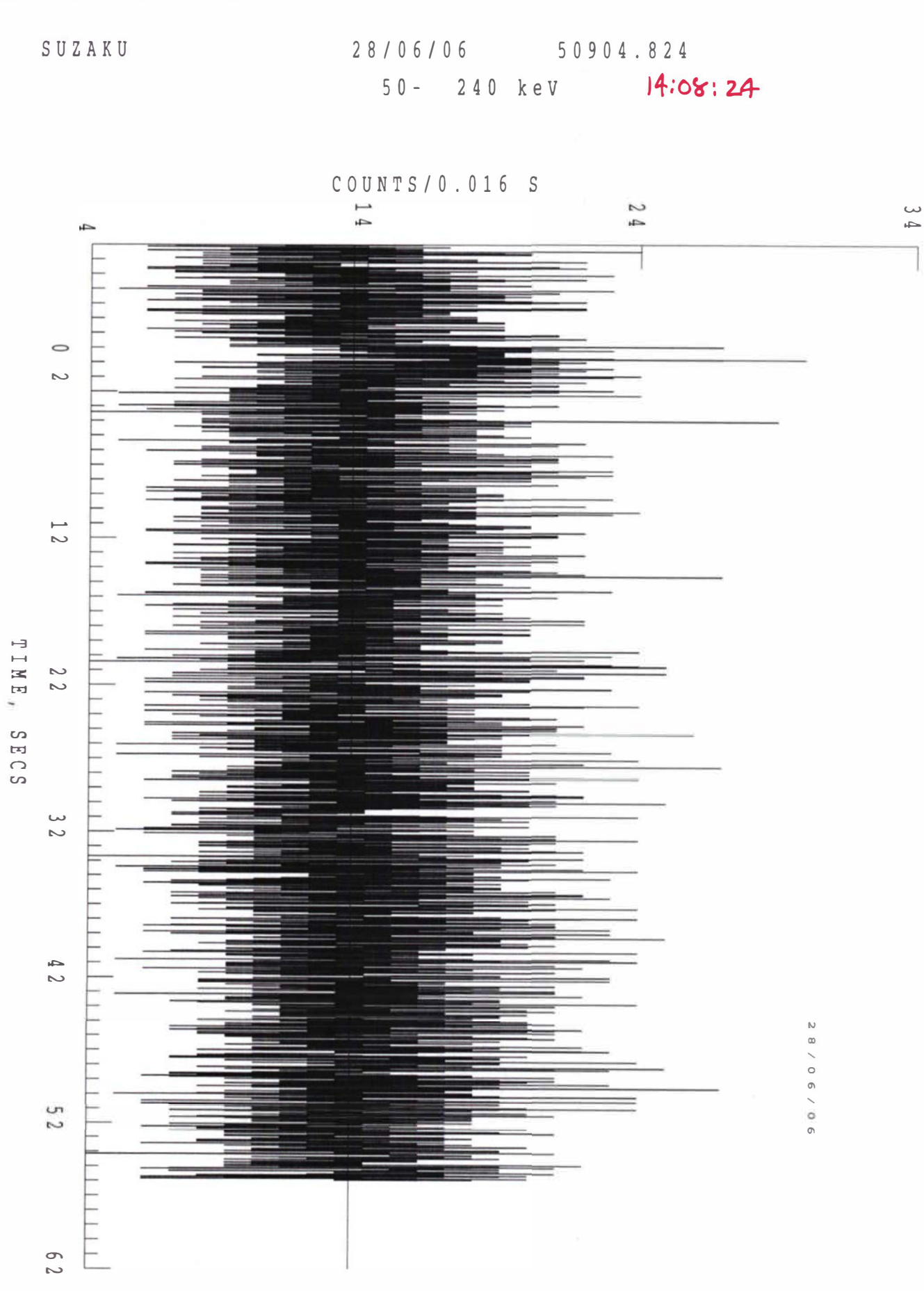
INTEGRAL 28/06/06 24471.000 06:47:51.0 11/07/14



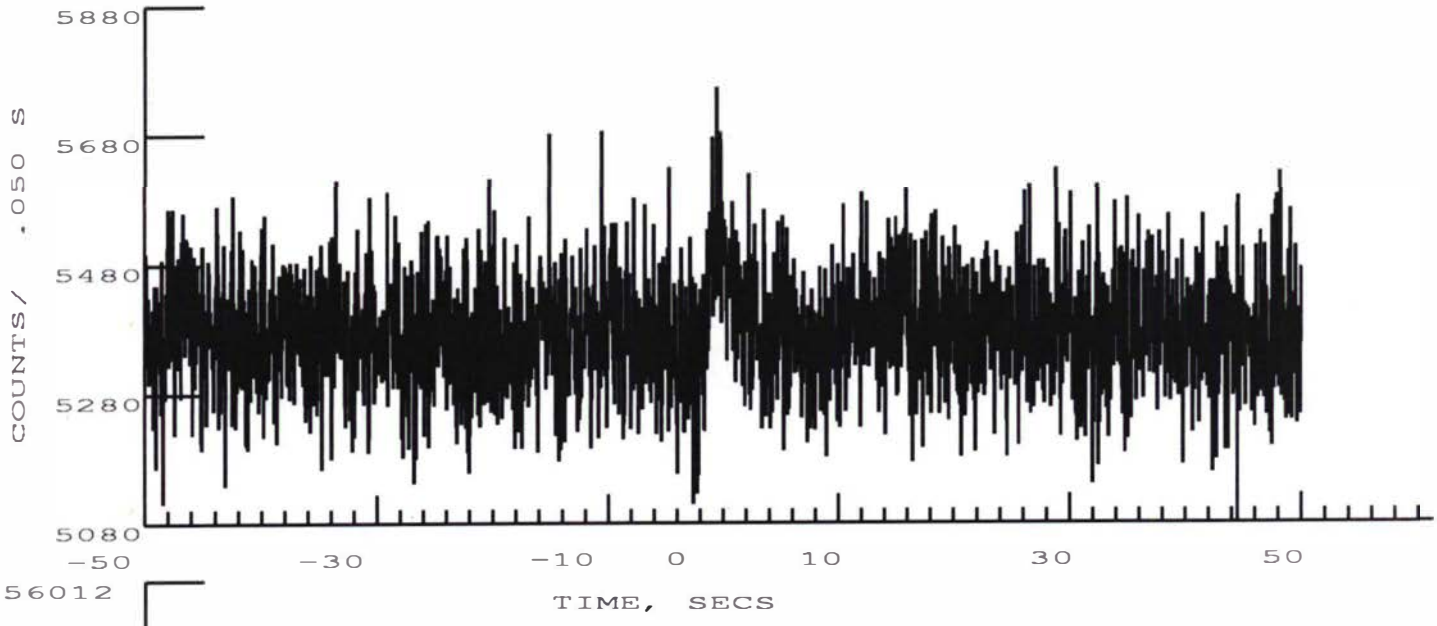


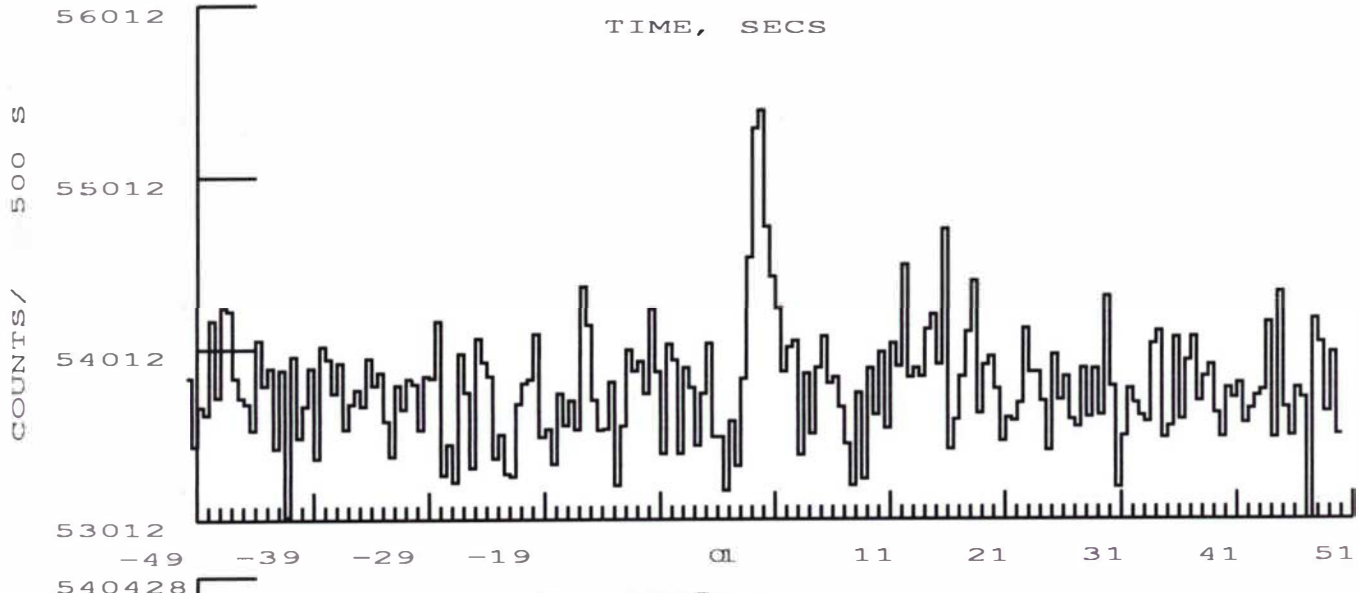


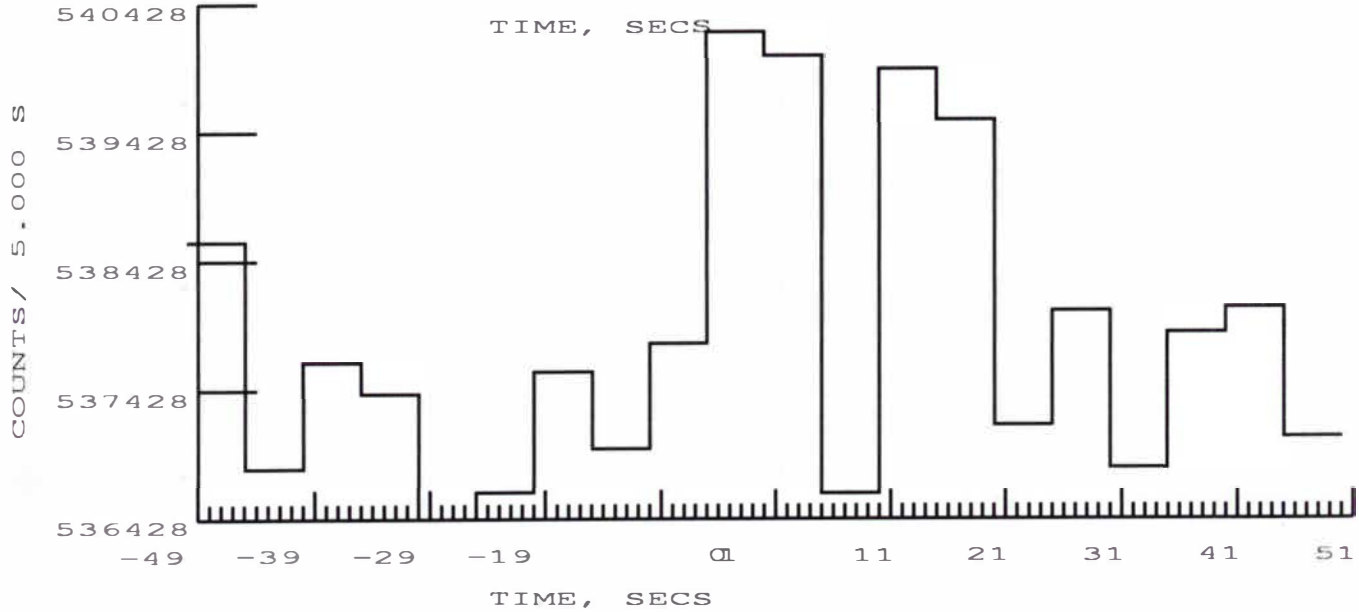

HESSI 28/06/06 24441.000 (KONUS_RI_20060628_24471)
25- 150 keV
COUNTS/0.250 S
100
125
150
175
200
10
20
30
40
50
60
70
TIME, SECS
11/09/06


SUZAKU
28/06/06
50904.824
50- 240 keV
14:08:24
COUNTS/0.016 S
4
14
24
34
0
2
12
22
32
42
52
62
TIME, SECS
28/06/06

INTEGRAL 28/06/06 50904.000 14:08:24.0 11/07/14

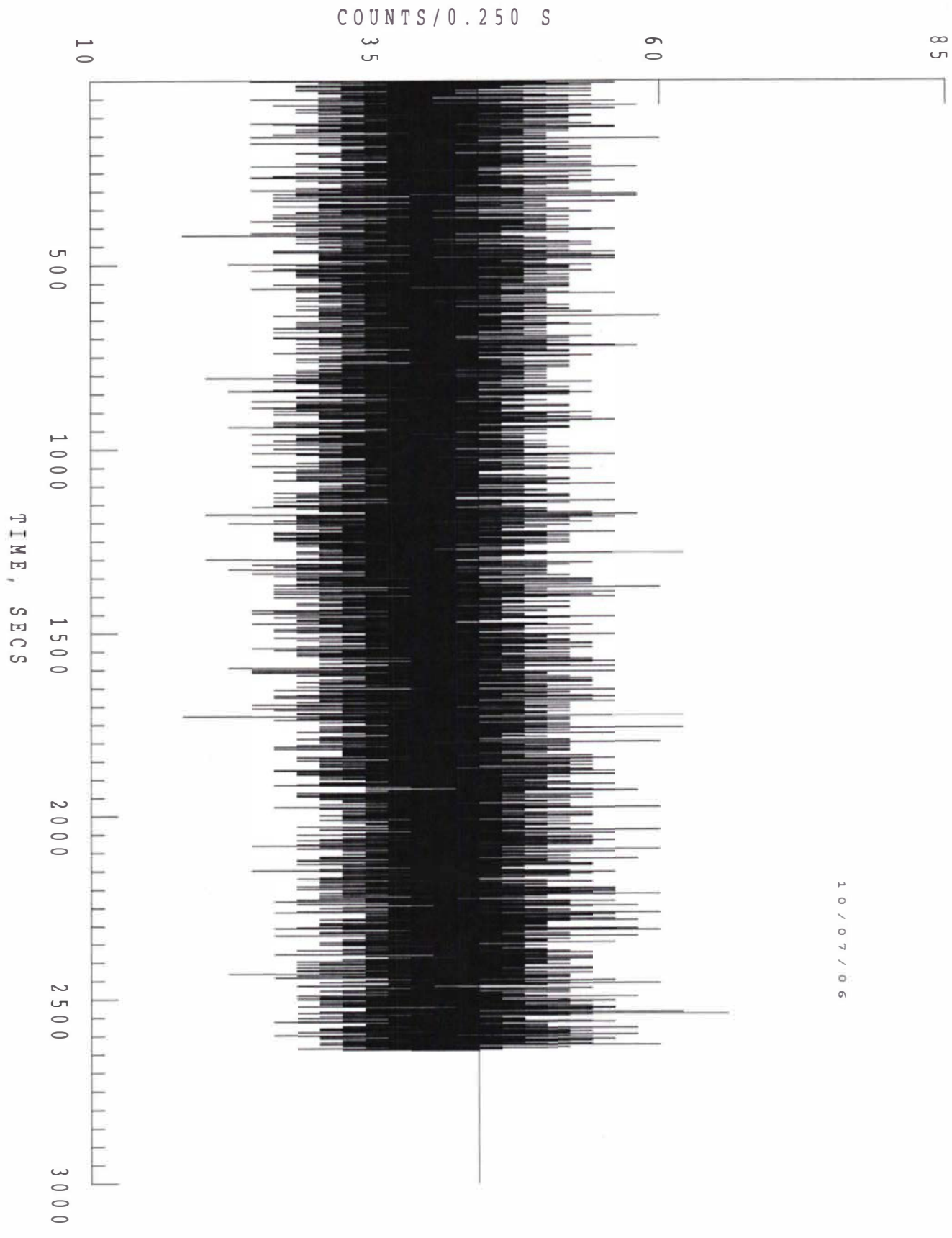






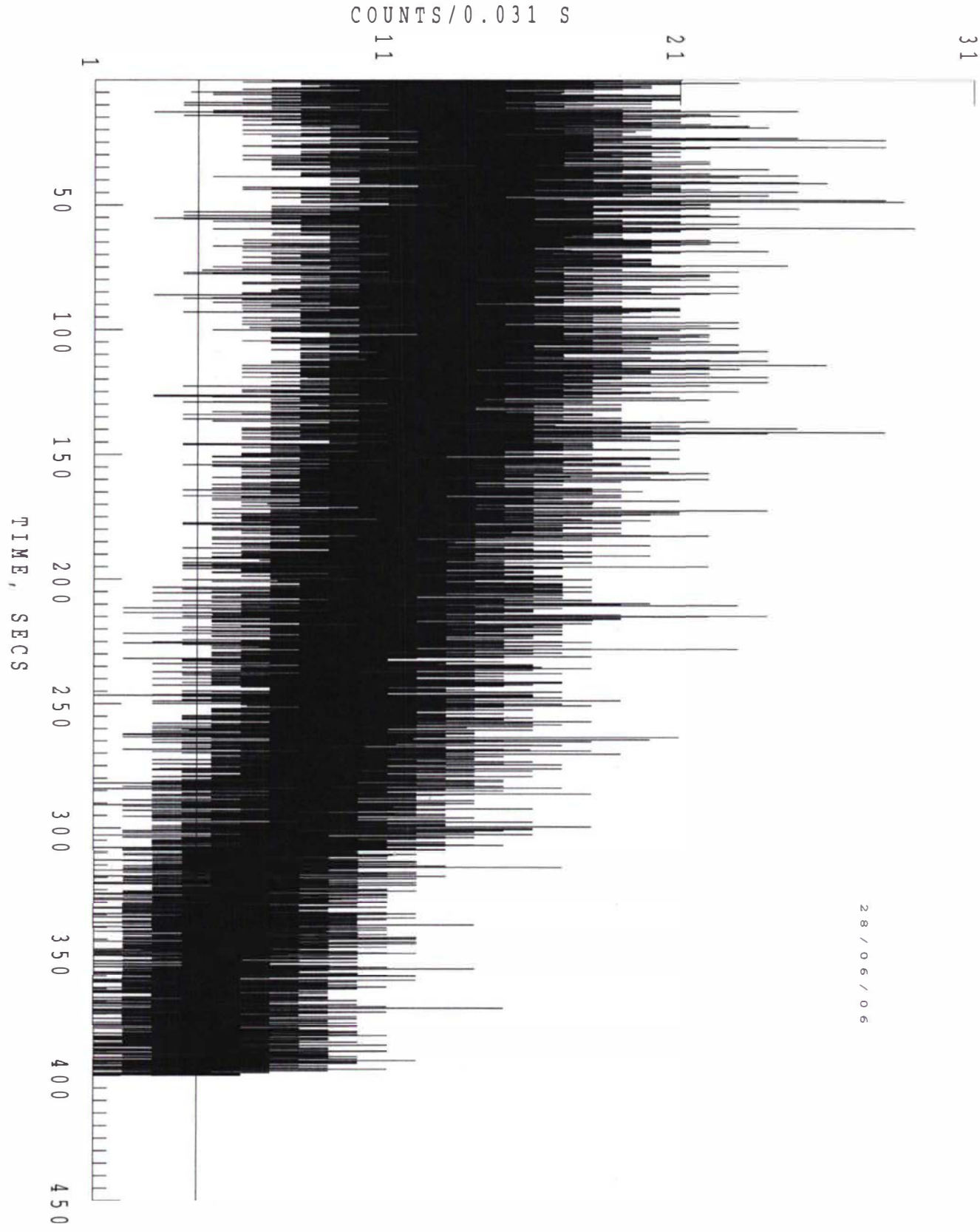
MS01 28/06/06 49587.600

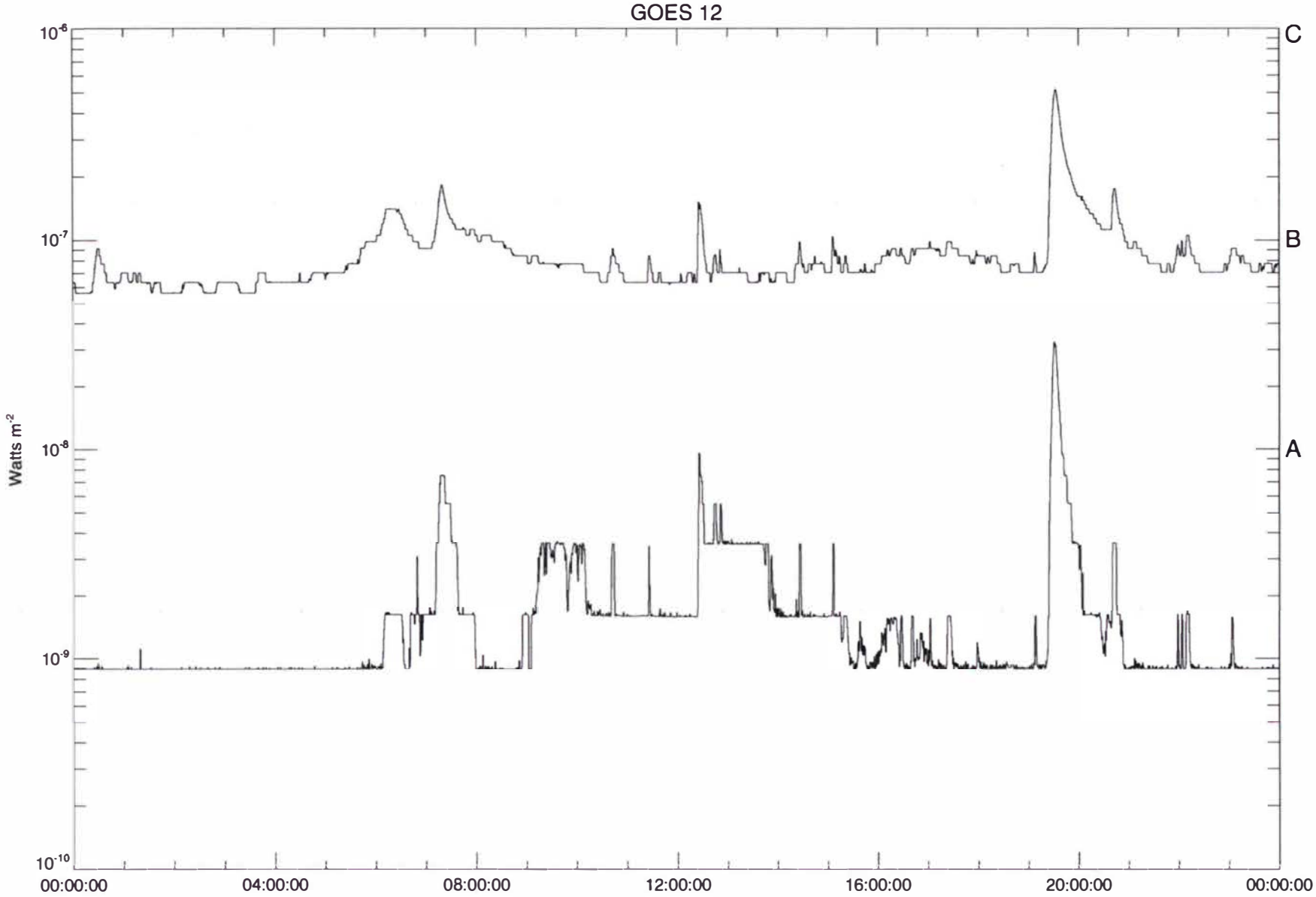
50- 3000 keV



HESSI 28/06/06 50704.000 (SUZAKU_20060628_50904)

25- 150 keV

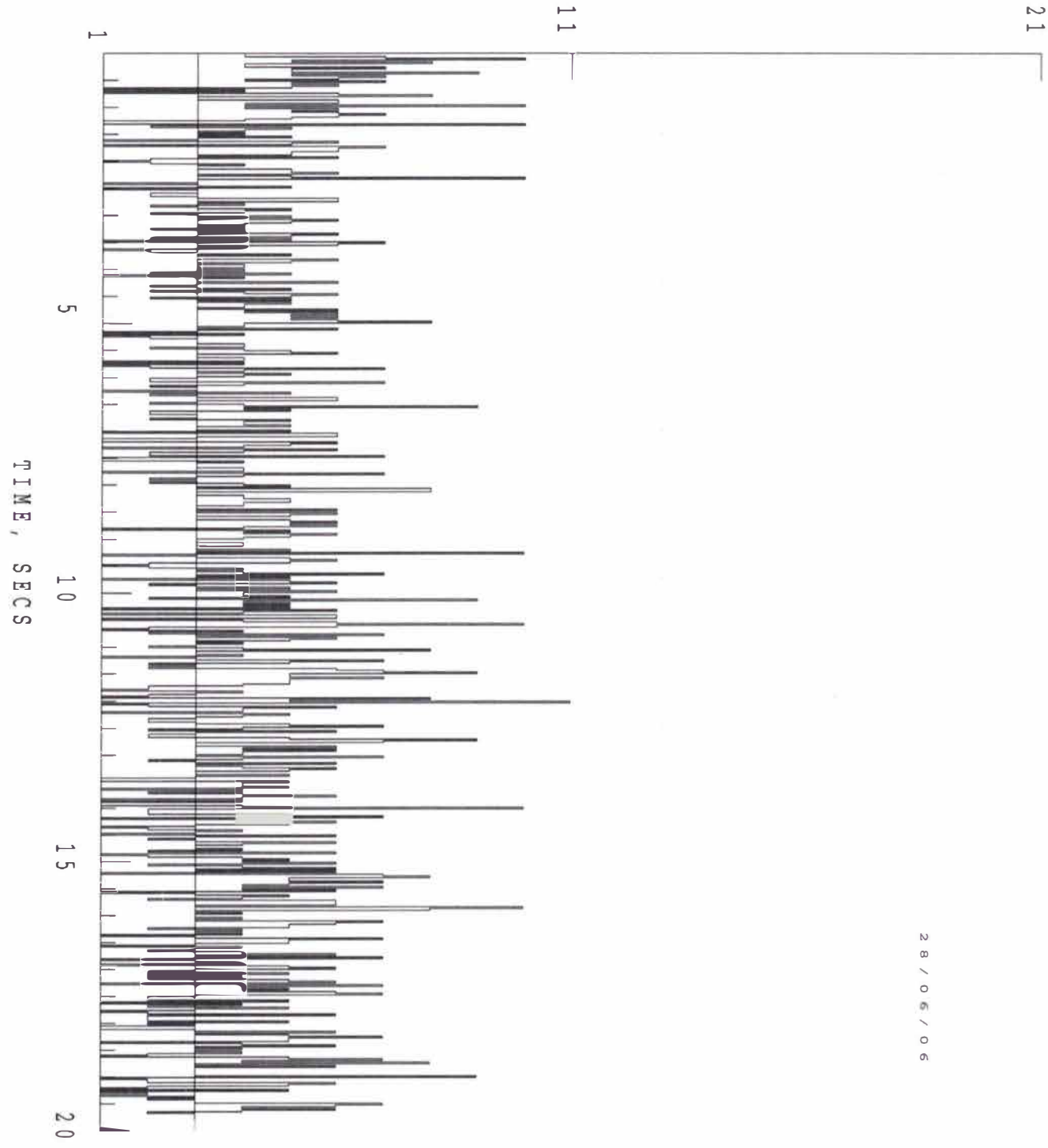




Data Start: 06/06/28, 0000:00
Plot created: 06/09/08, 2219
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

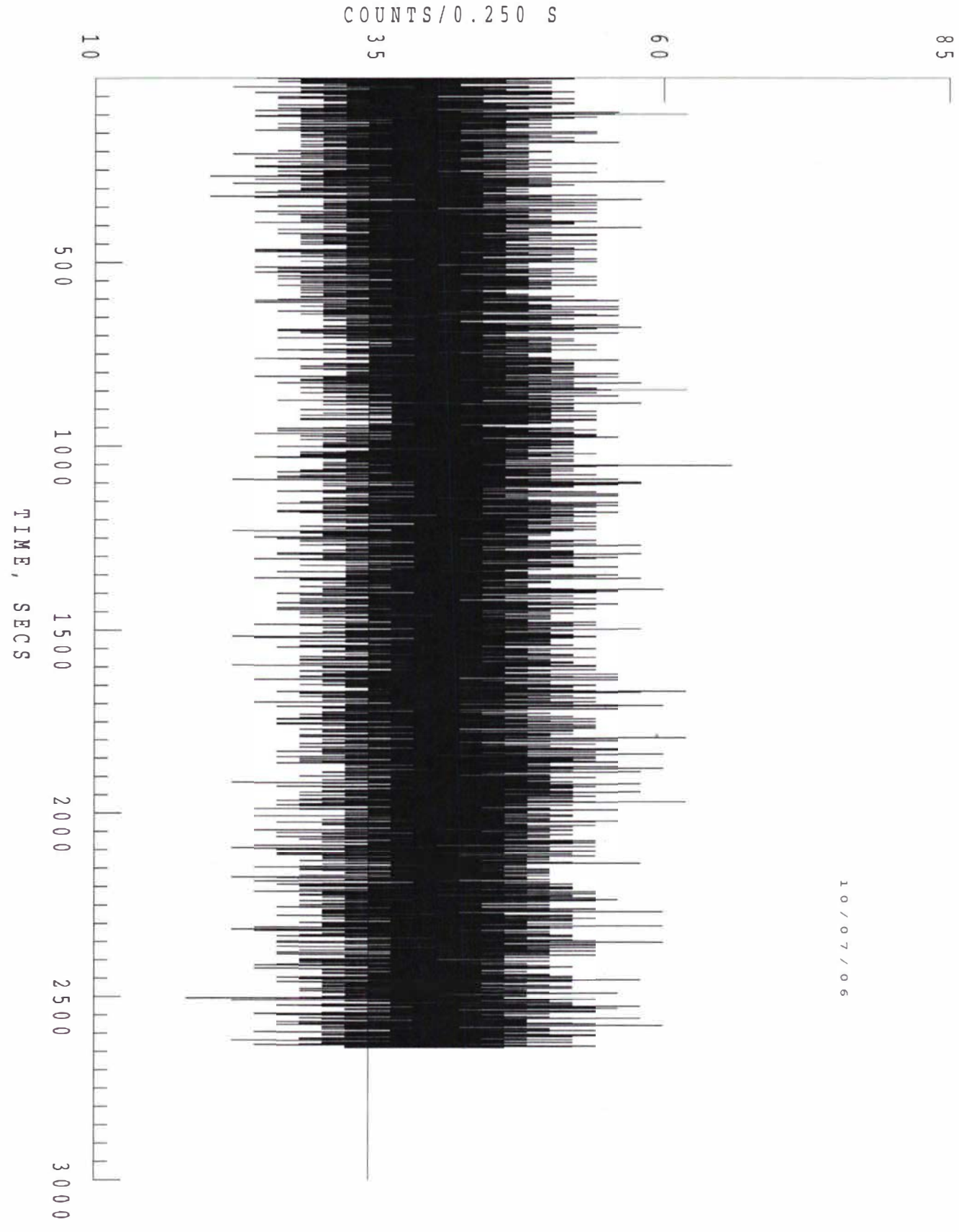
MO 29/06/06 4680.462

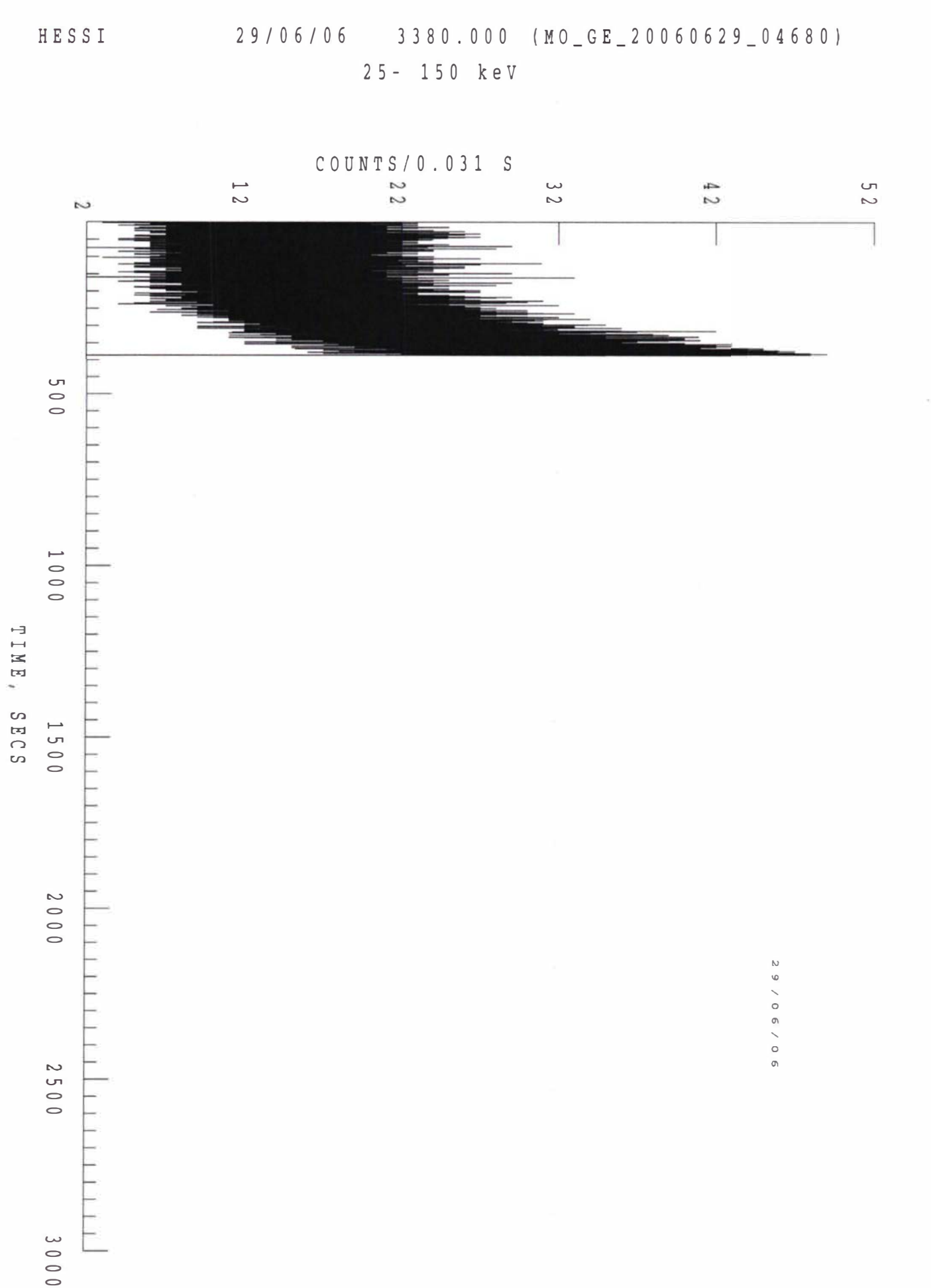
116- 337 keV



MS01 29/06/06 3326.867

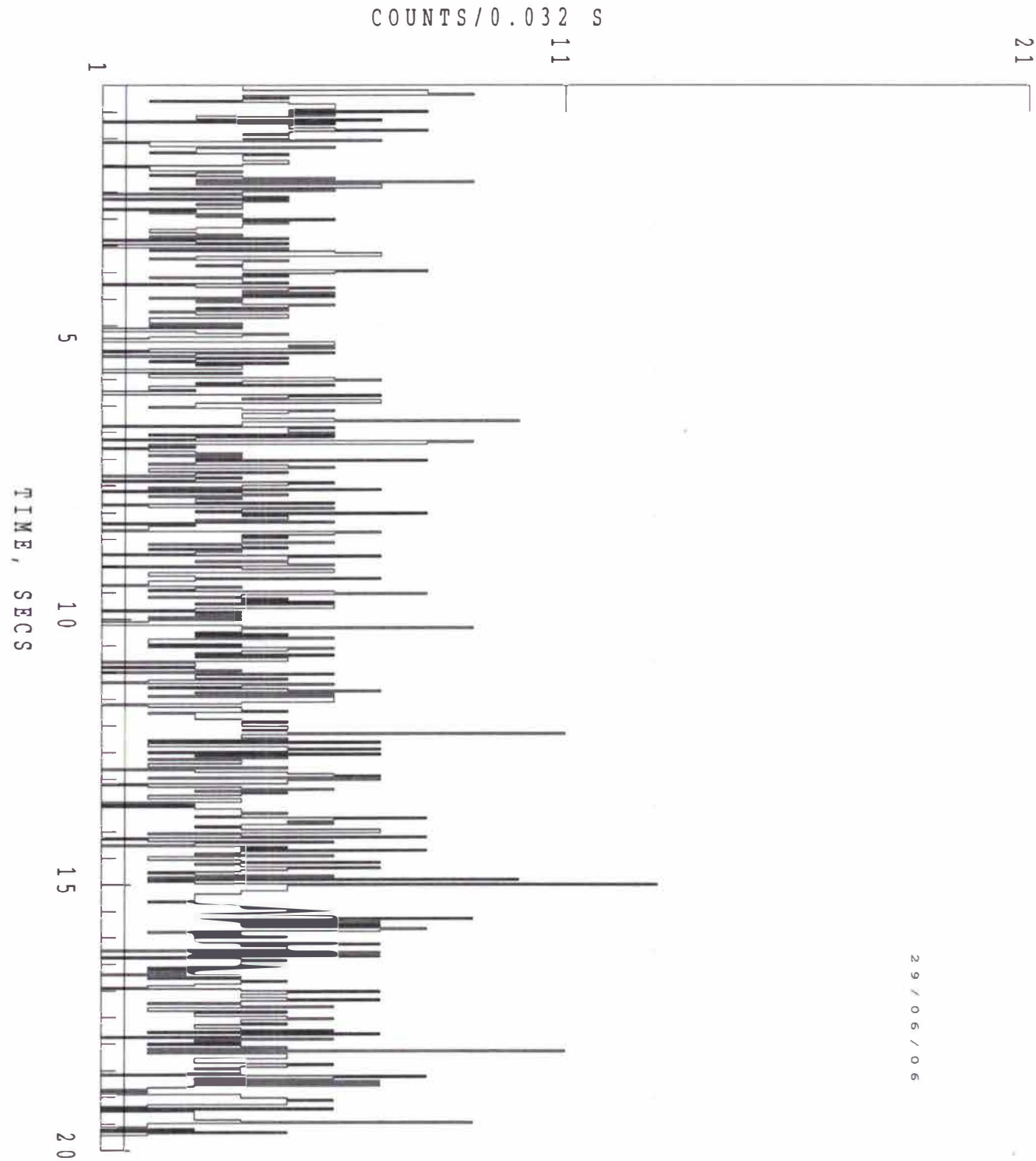
50- 3000 keV




HESSI 29/06/06 3380.000 (MO_GE_20060629_04680)
25- 150 keV
COUNTS/0.031 S
2
12
22
32
42
52
500
1000
1500
2000
2500
3000
TIME, SECS
29/06/06

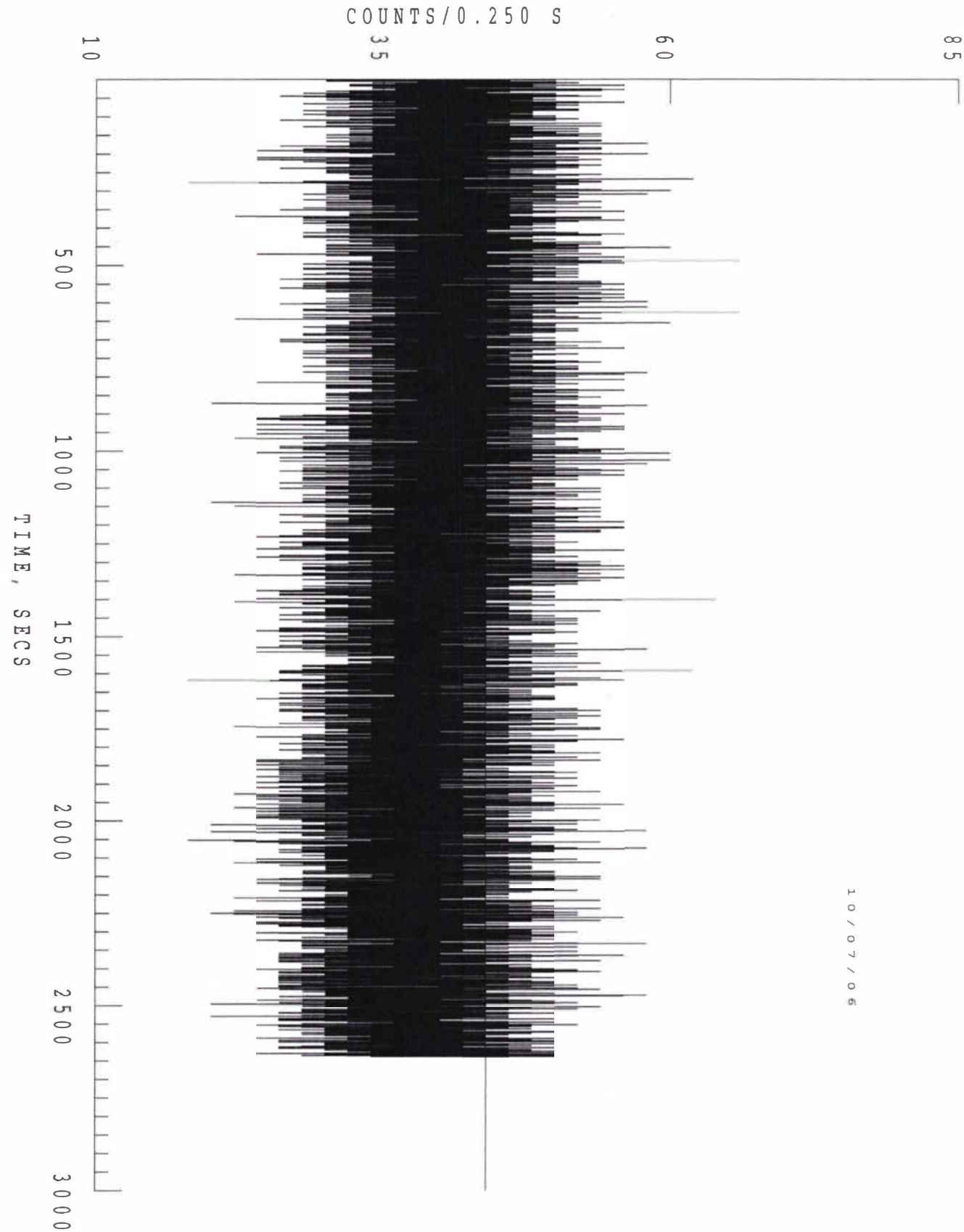
MO 29/06/06 63115.351

116- 337 keV



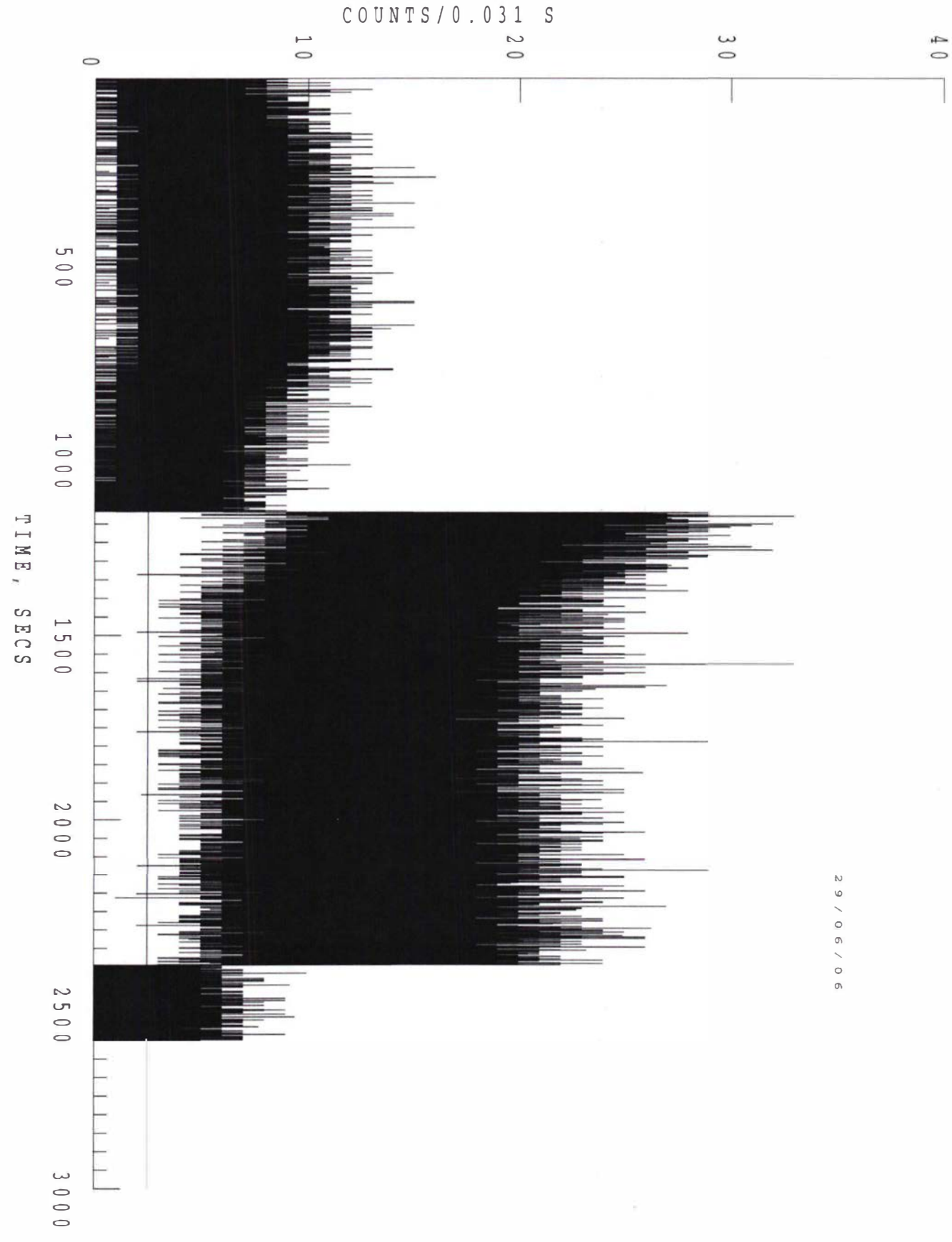
MS01 29/06/06 61765.805

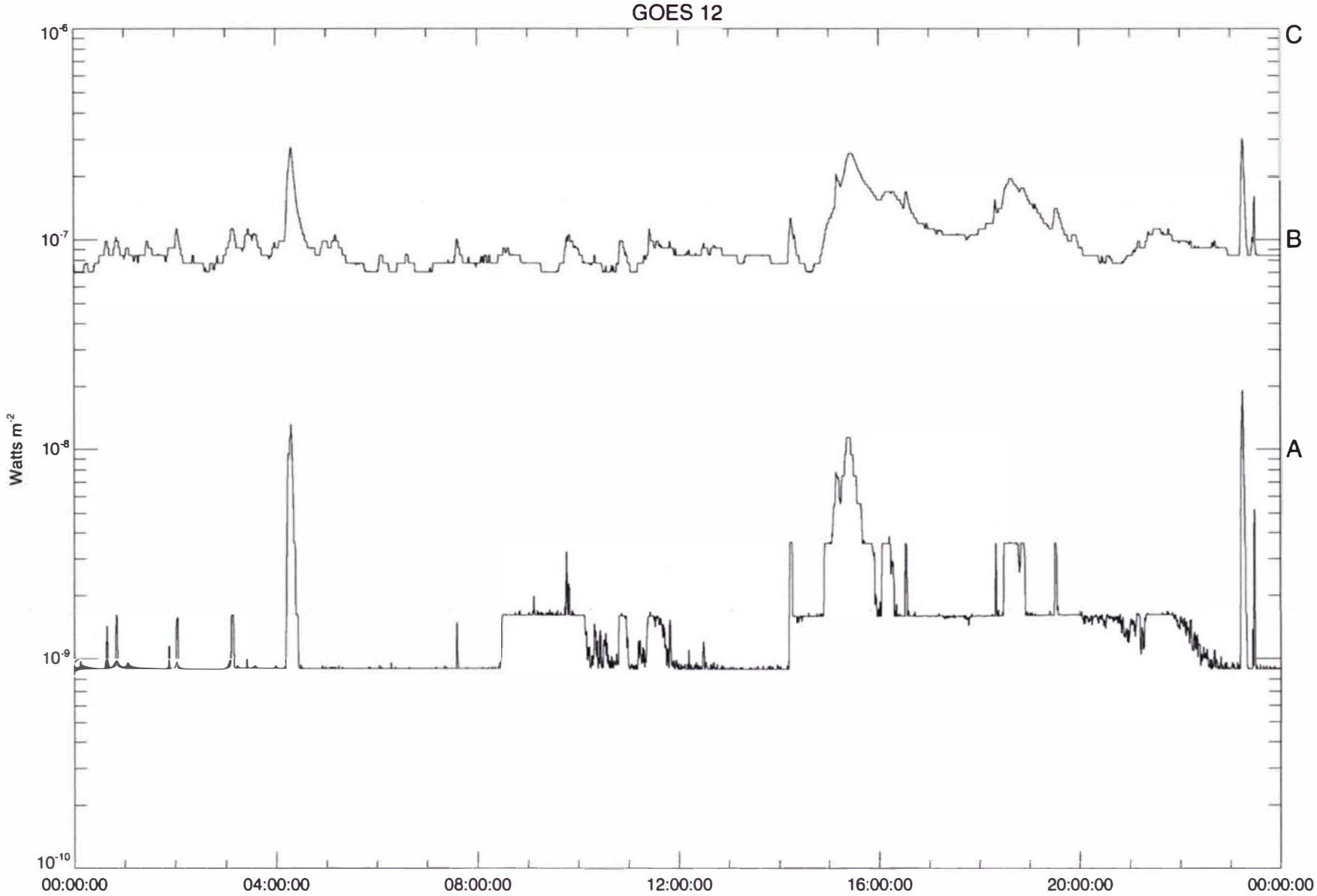
50- 3000 keV



HESSI 29/06/06 61815.000 (MO_GE_20060629_63115)

25- 150 keV

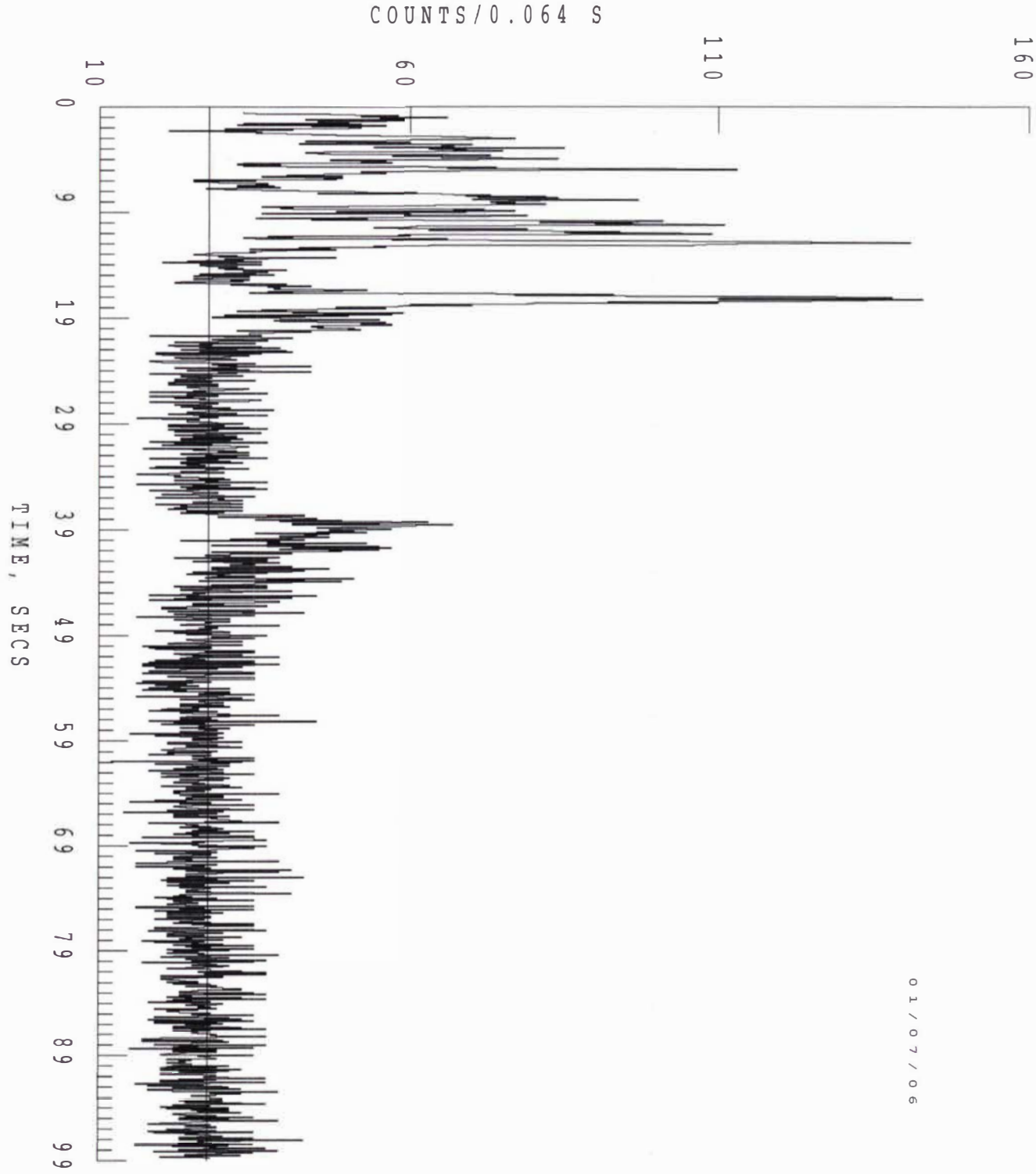




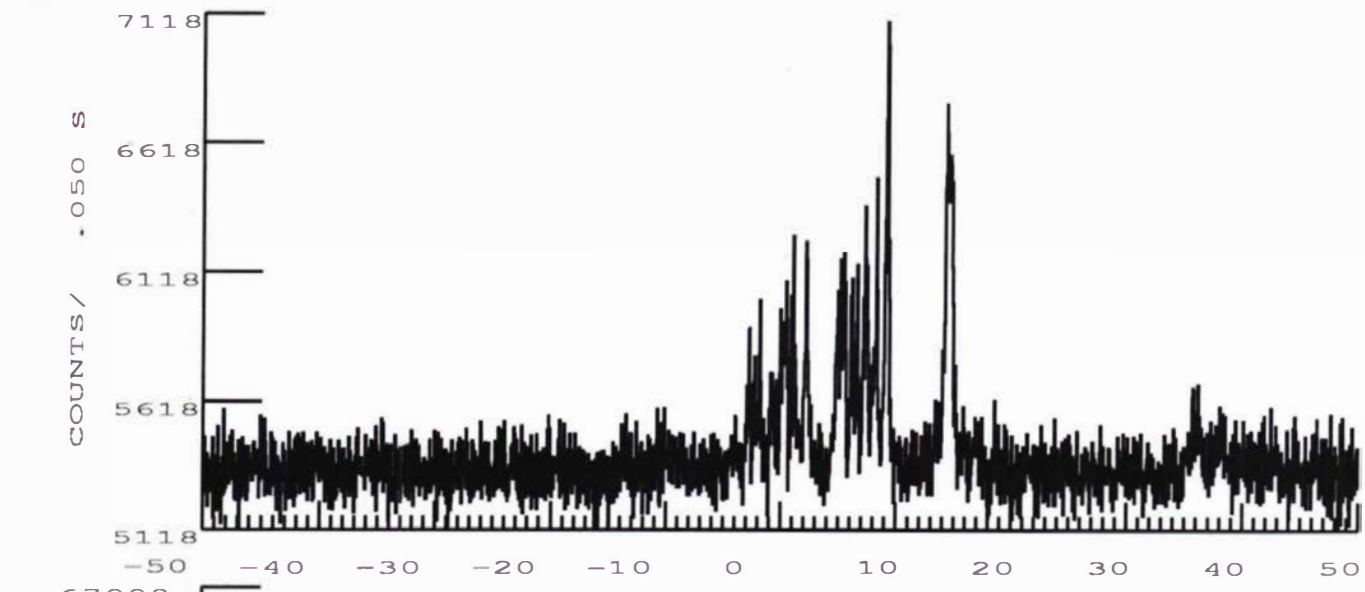
Data Start: 06/06/29, 0000:00 Plot created: 06/09/08, 2220
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10

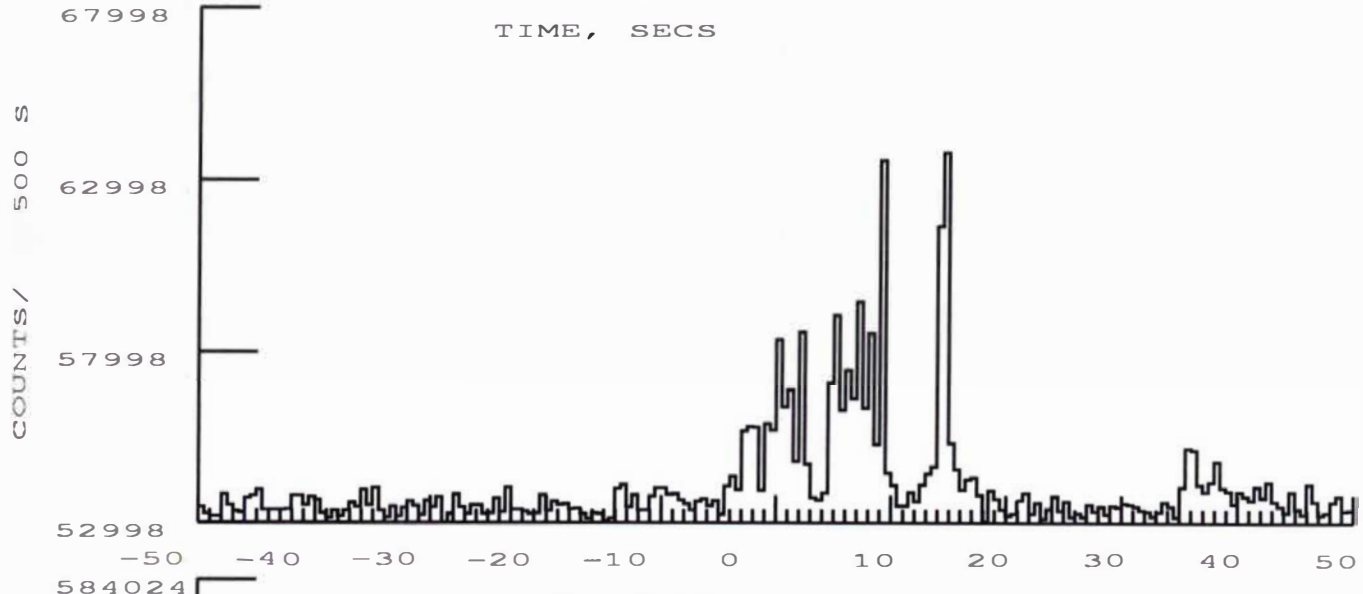
KONUS2 30/06/06 392.612

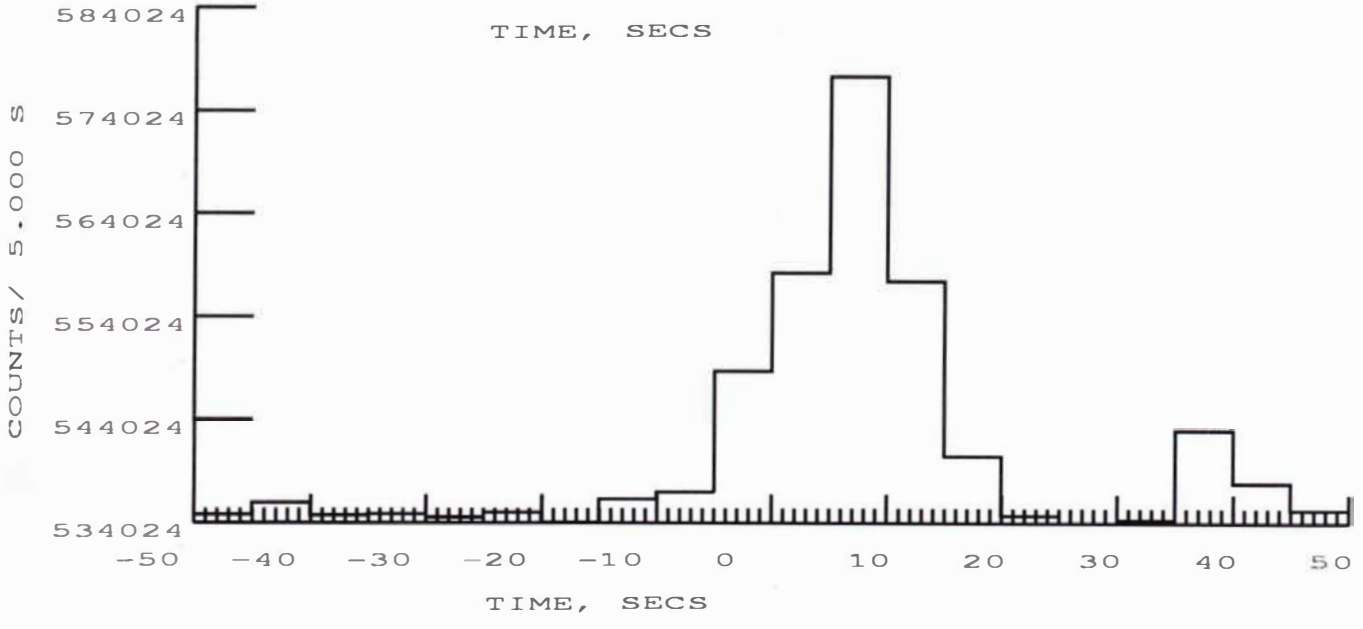
50- 200 keV 00:06:32



INTEGRAL 30/06/06 392.000 00:06:32.0 11/07/14

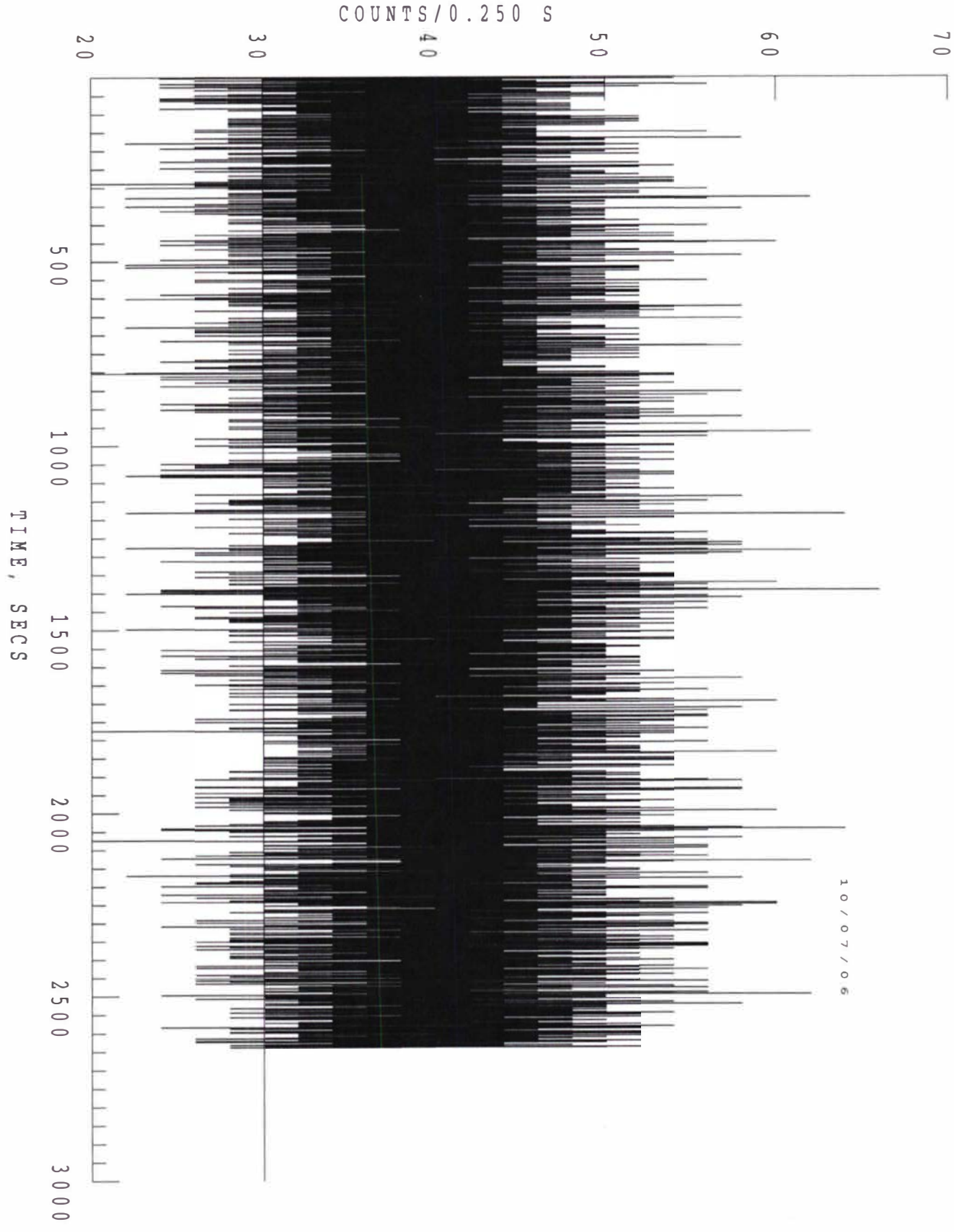


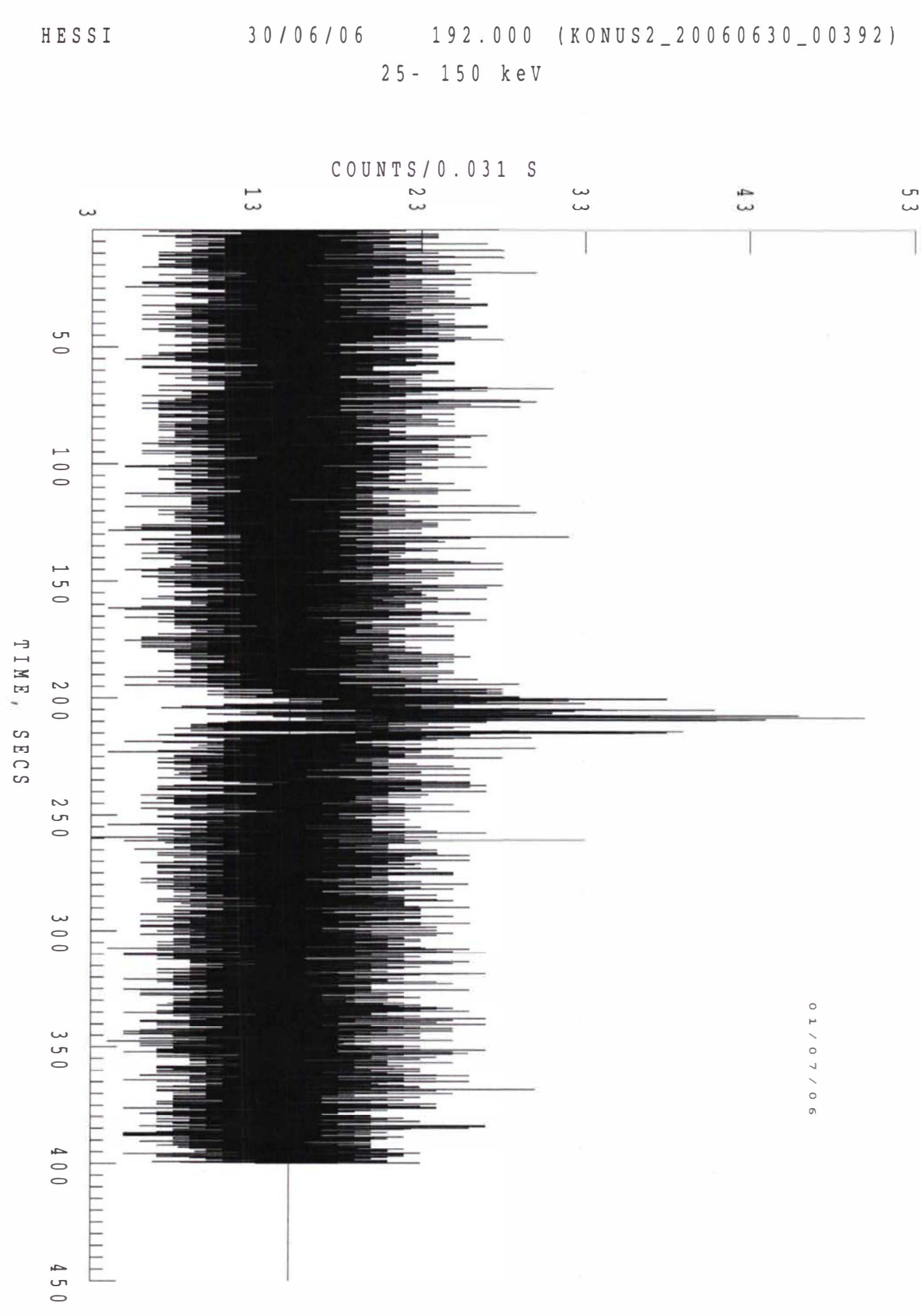




MS01 29/06/06 85465.381

50- 3000 keV




HESSI 30/06/06 192.000 (KONUS2_20060630_00392)
25- 150 keV
COUNTS/0.031 S
3
13
23
33
43
53
50
100
150
200
250
300
350
400
450
TIME, SECS
01/07/06

From jayc@milkyway.gsfc.nasa.gov Sun Jul 2 14:02:00 2006
X-ASG-Debug-ID: 1151874139-4057004c0000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: milkyway.gsfc.nasa.gov[128.183.16.143]
X-Barracuda-Start-Time: 1151874139
X-ASG-Whitelist: Sender
Mime-Version: 1.0
X-Sender: jayc@lheapop.gsfc.nasa.gov
Date: Sun, 2 Jul 2006 17:00:40 -0400
To: "val" <val@mail.ioffe.ru>, "Kevin Hurley" <khurley@ssl.berkeley.edu>,
        "Kazutaka Yamaoka" <yamaoka@phys.aoyama.ac.jp>,
        "Roland Vanderspek" <roland@space.mit.edu>,
        "Masanori Ohno" <ohno@hirax7.hepl.hiroshima-u.ac.jp>,
        "Hans Krimm" <krimm@milkyway.gsfc.nasa.gov>,
        "Sergey Golenetskii" <golen@mail.ioffe.ru>
From: Jay Cummings <jayc@milkyway.gsfc.nasa.gov>
X-ASG-Orig-Subj: Re: long GRB 060630
Subject: Re: long GRB 060630
Cc: "val" <val@mail.ioffe.ru>
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu

BAT shows no rate increase at this time.

At 6:21 PM +0400 7/2/06, val wrote:
>Dear colleagues,
>
>A long, rather bright GRB triggered Konus-Wind
>at 2006-06-30 T0=392.612 s UT (00:06:32.612).
>The burst light curve shows several multipeaked pulses with
 a total duration of ~50 s. There is a strong spectral evolution
 in coarse of the burst.
>The peak count rate is ~3600 cts/sec at T-T0~17 s.
>The source of the burst is in the north ecliptic hemisphere .
>
>Any other detections?

--
Jay Cummings

From yamaoka@phys.aoyama.ac.jp Mon Jul 3 10:23:12 2006
X-ASG-Debug-ID: 1151947425-2e8800220000-LqZNIK
X-Barracuda-URL: http://mailwall.ssl.berkeley.edu:8000/cgi-bin/mark.cgi
X-Barracuda-Connect: scmailgw2.scop.aoyama.ac.jp[133.2.251.195]
X-Barracuda-Start-Time: 1151947425
To: val@mail.ioffe.ru
Cc: khurley@ssl.berkeley.edu, jayc@milkyway.gsfc.nasa.gov,
roland@space.mit.edu, ohno@hirax7.hepl.hiroshima-u.ac.jp,
krimm@milkyway.gsfc.nasa.gov, golen@mail.ioffe.ru
Cc: yamaoka@phys.aoyama.ac.jp
X-ASG-Orig-Subj: Re: long GRB 060630
Subject: Re: long GRB 060630
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
Date: Tue, 04 Jul 2006 02:22:45 +0900
From: Kazutaka Yamaoka <yamaoka@phys.aoyama.ac.jp>
X-Dispatcher: imput version 20000228(IM140)
X-Barracuda-Bayes: INNOCENT GLOBAL 0.1384 1.0000 -1.1673
X-Barracuda-Virus-Scanned: by Barracuda Spam Firewall at ssl.berkeley.edu
X-Barracuda-Spam-Report: Code version 3.02, rules version 3.0.16103
Rule breakdown below pts rule name description
---- ---------------------- --

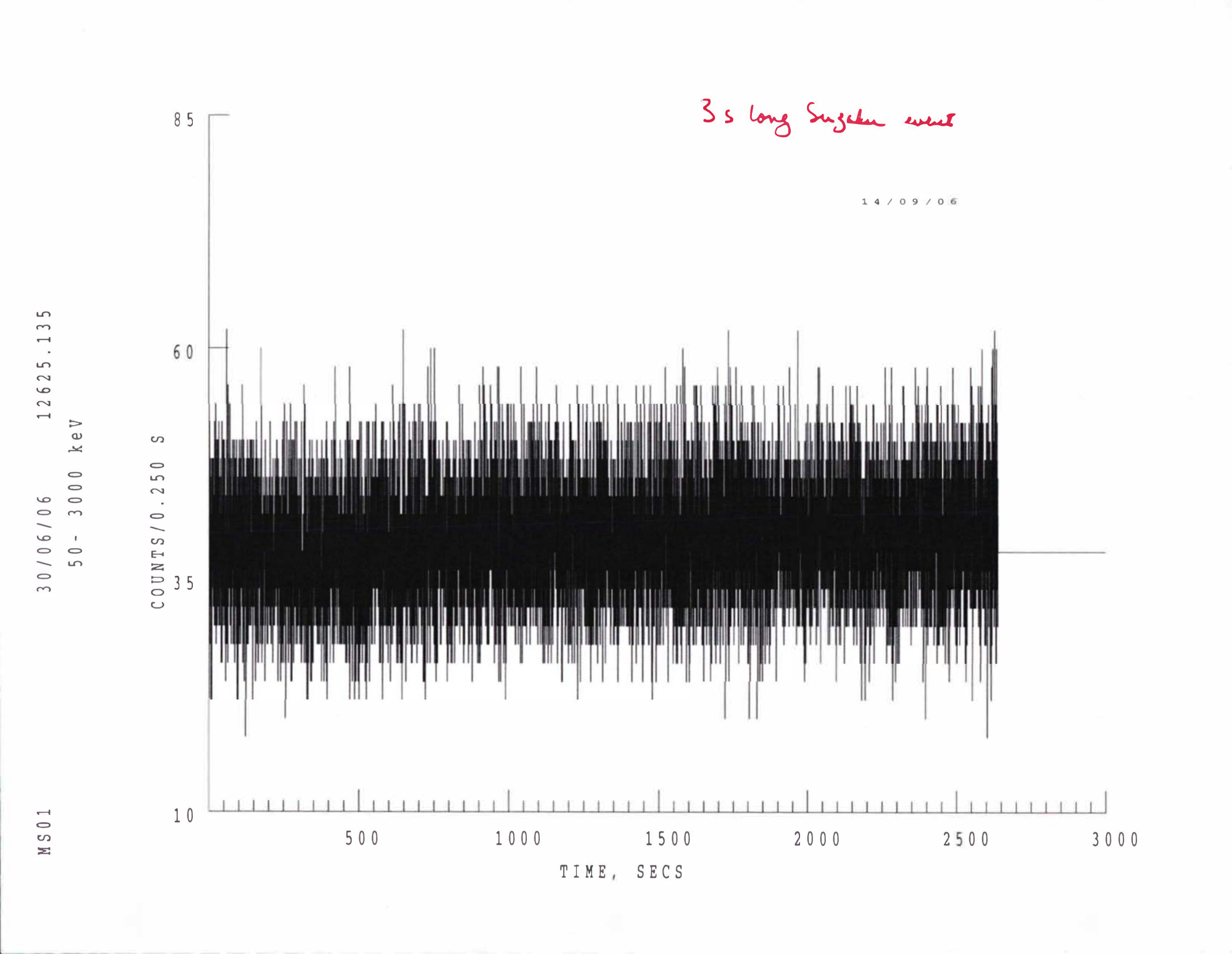
Dear Valentin,

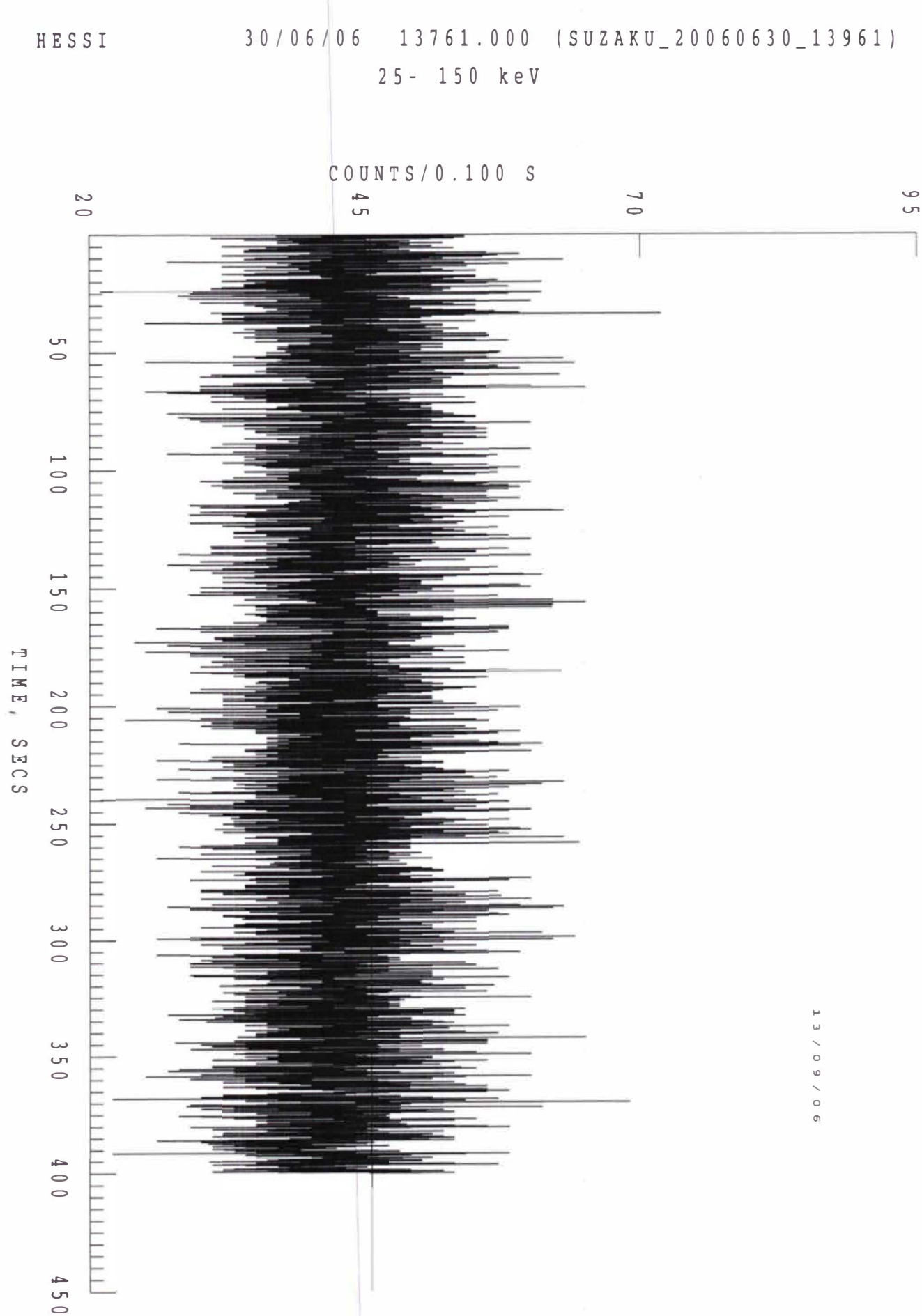
The Suzaku was during the SAA at this time,
so the WAM was turned off.

Best regards,
Kazu
on behalf of the WAM team

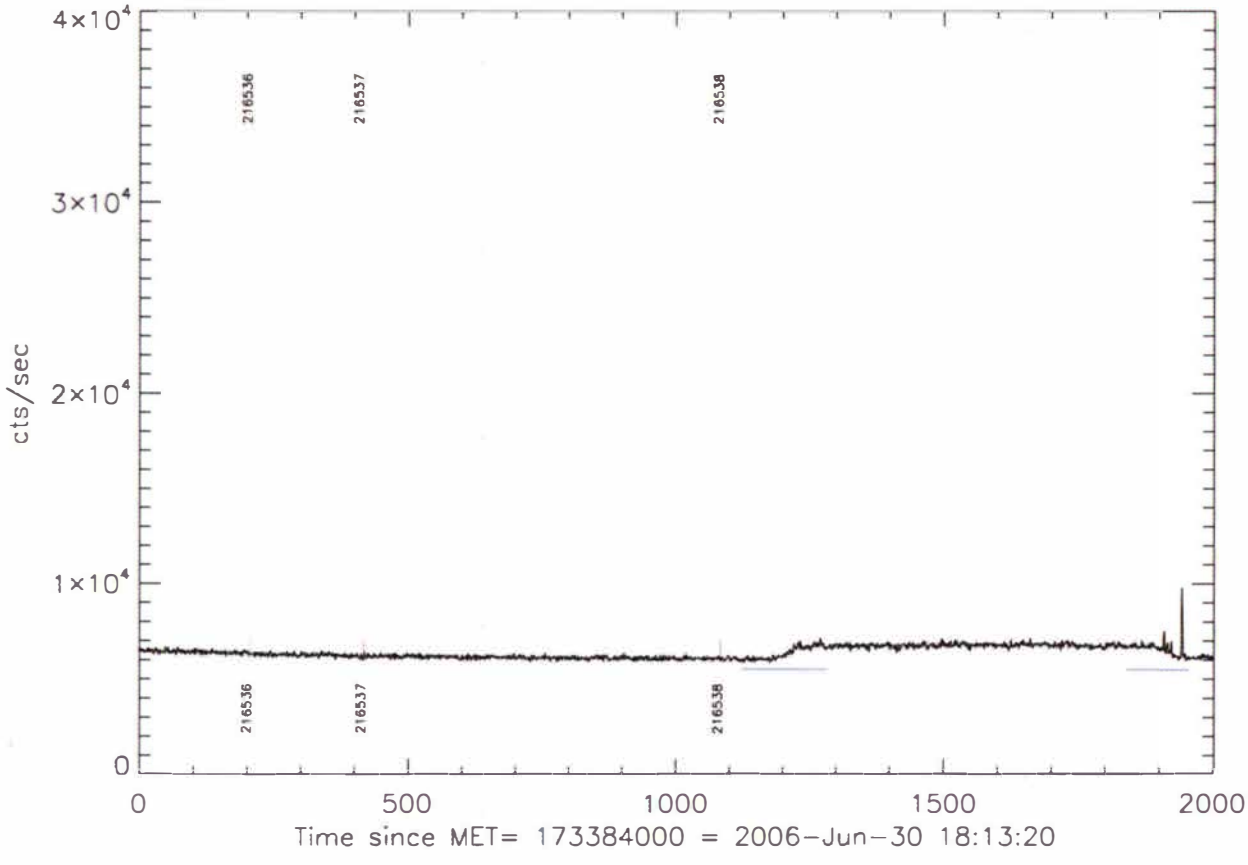
From: "val" <val@mail.ioffe.ru>
Subject: long GRB 060630
Date: Sun, 2 Jul 2006 18:21:17 +0400
Message-ID: <001f01c69de2$fa680a90$a1e055c2@home>

> Dear colleagues,
>
> A long, rather bright GRB triggered Konus-Wind
> at 2006-06-30 T0=392.612 s UT (00:06:32.612).
> The burst light curve shows several multipeaked pulses with
> a total duration of ~50 s. There is a strong spectral evolution
> in coarse of the burst.
> The peak count rate is ~3600 cts/sec at T-T0~17 s.
> The source of the burst is in the north ecliptic hemisphere .
>
> Any other detections?
>
>


3s long Surgeon event
14/09/06
85
60
35
10
COUNTS/0.250 S
500
1000
1500
2000
2500
3000
TIME, SECS
MS01
30/06/06 12625.135
50- 3000 keV


HESSI
30/06/06 13761.000 (SUZAKU_20060630_13961)
25- 150 keV
COUNTS/0.100 S
20
45
70
95
50
100
150
200
250
300
350
400
450
TIME, SECS
13/09/06

Swift 18:45:42



MO GE

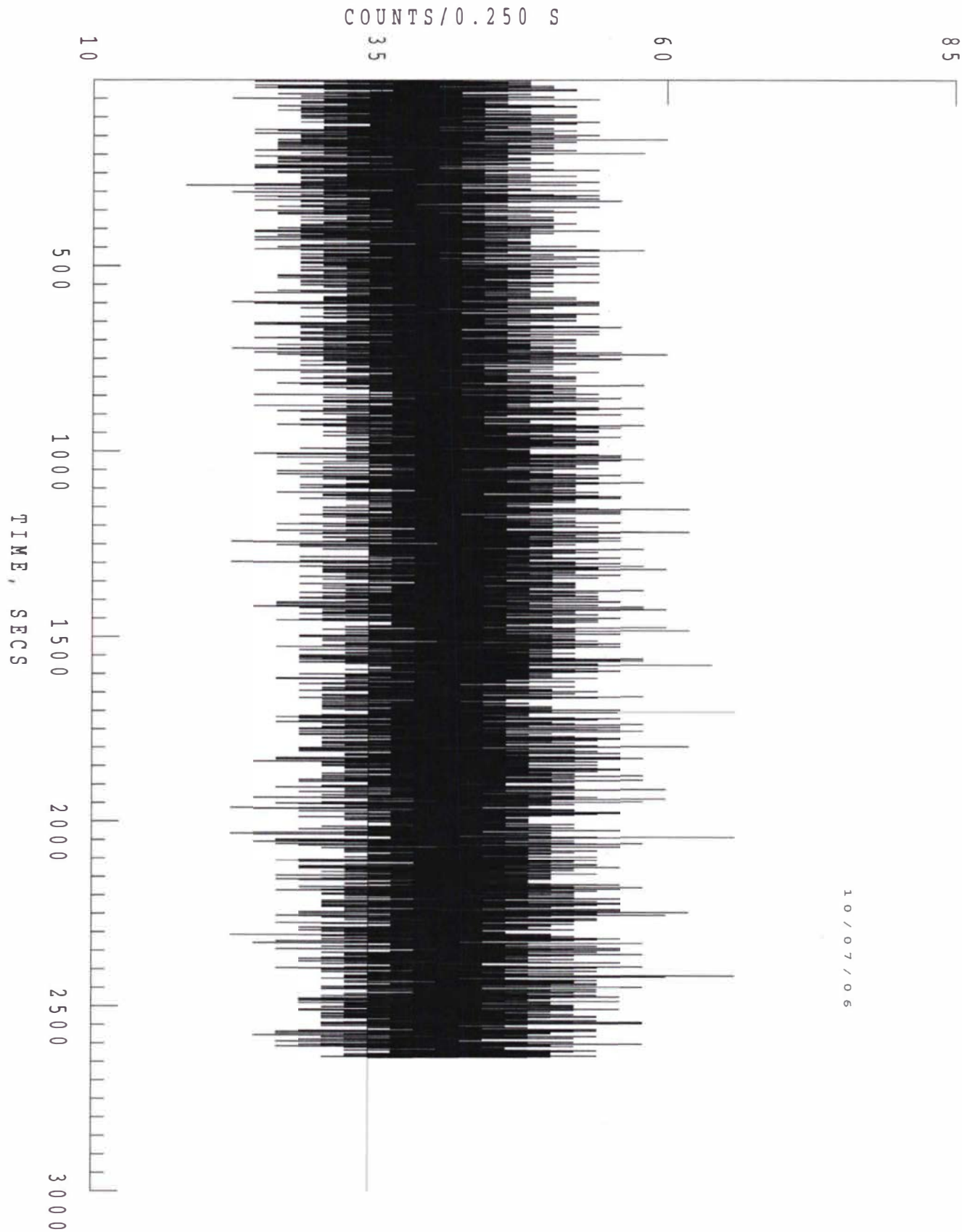
30/06/06 67056.835

116- 337 keV

3/7/6

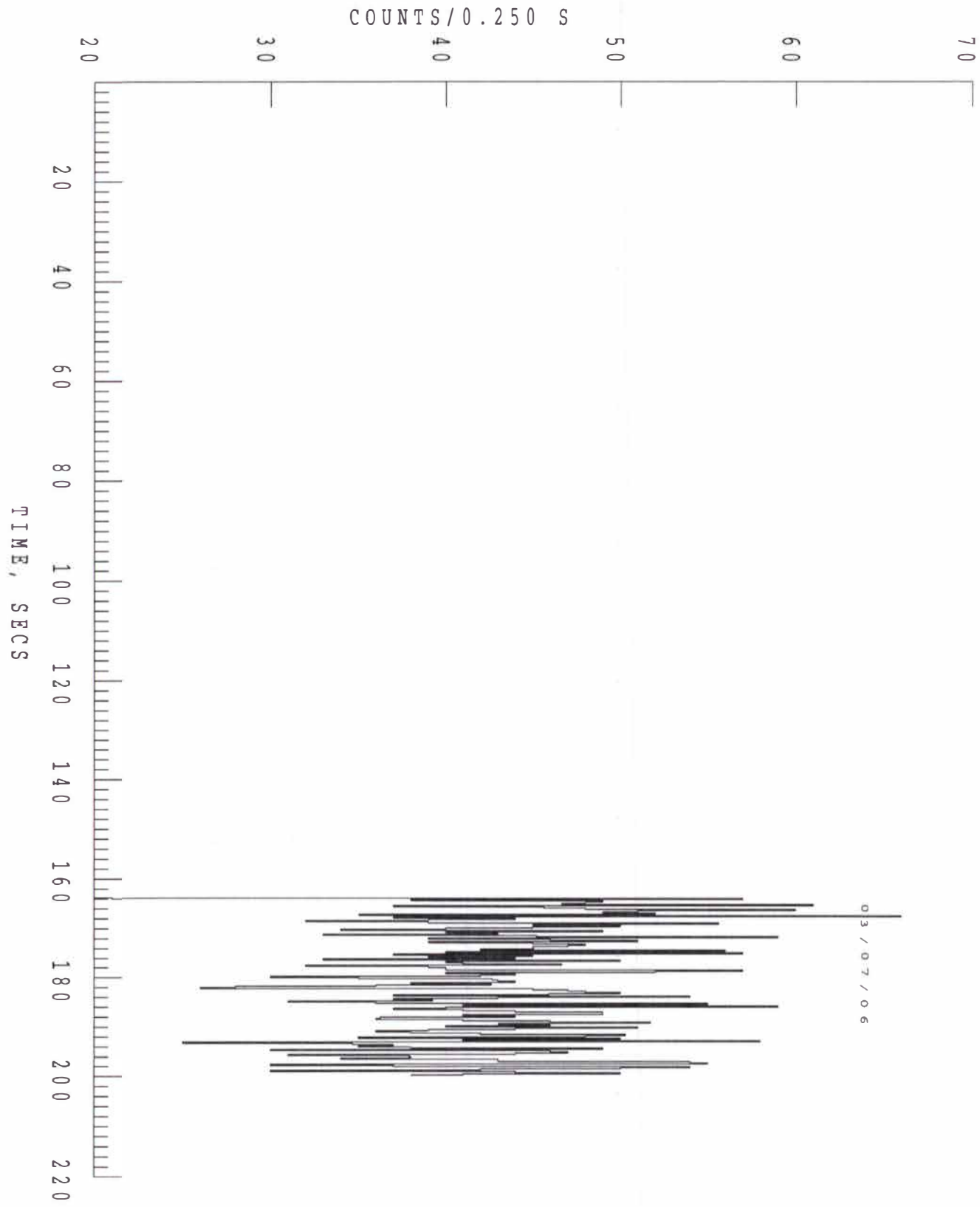
MS01 30/06/06 66204.163

50- 3000 keV



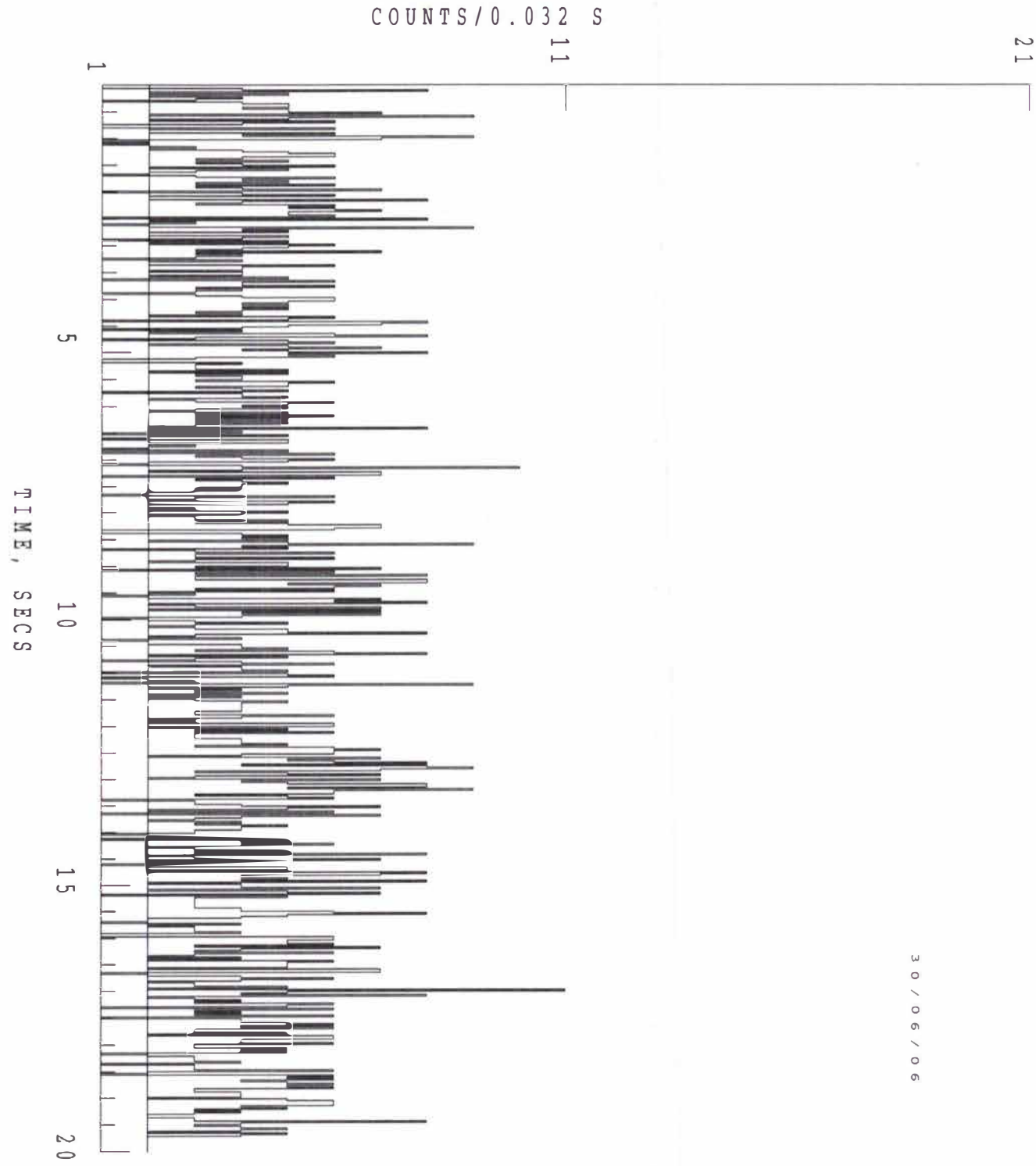
HESSI 30/06/06 67442.000 (swift_20060630_67542)

25- 150 keV



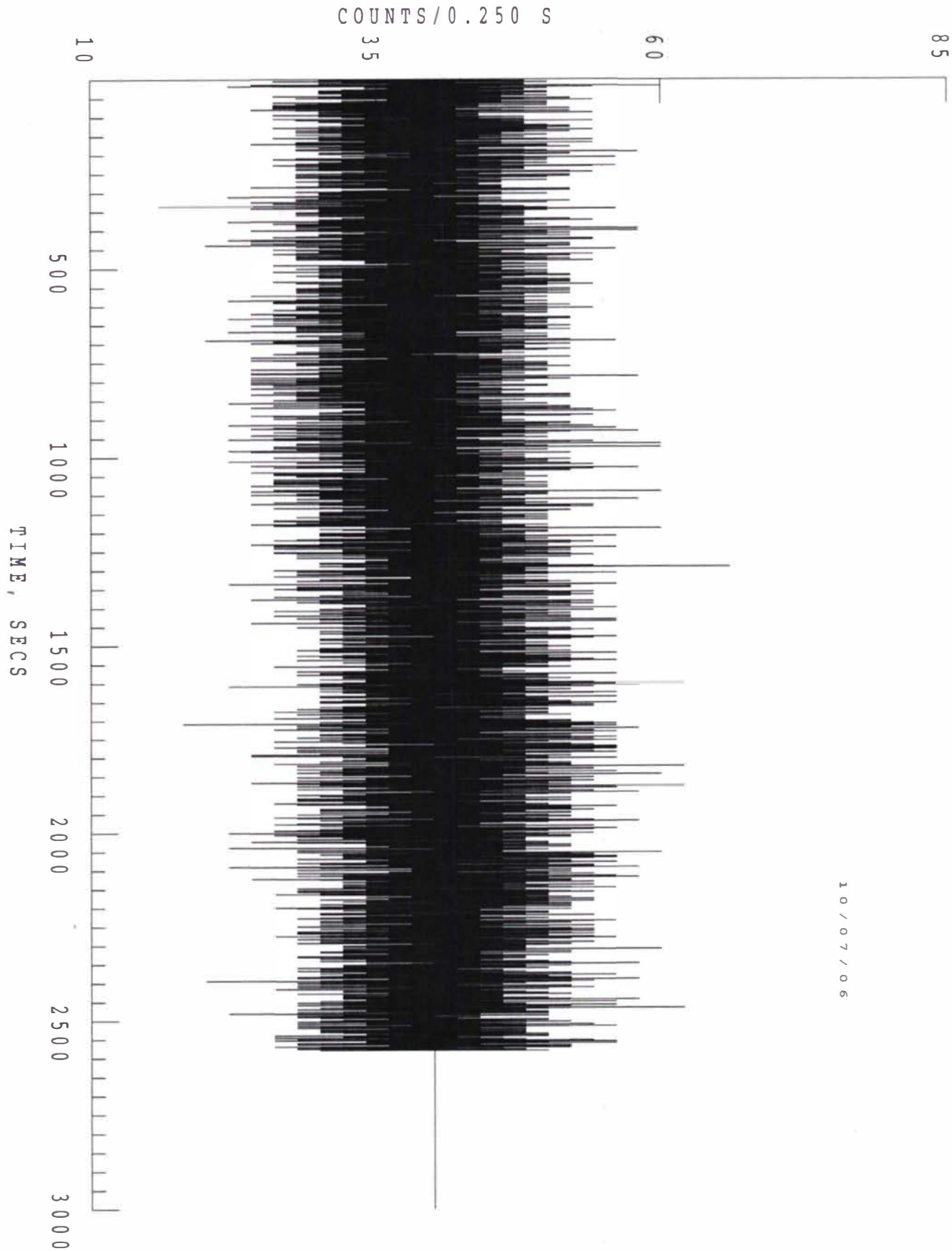
MO 30/06/06 81199.608

116- 337 keV



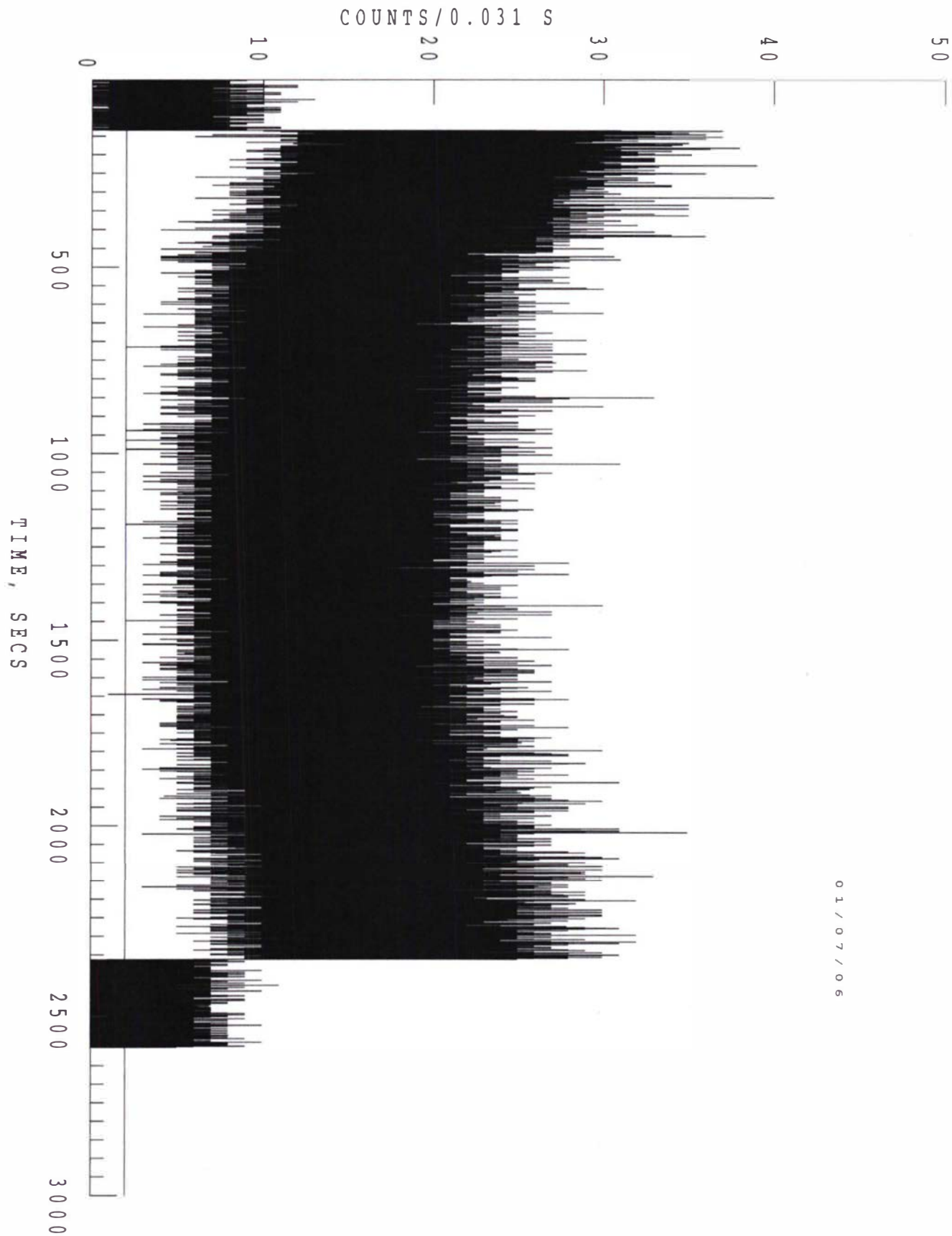
MS01 30/06/06 79883.908

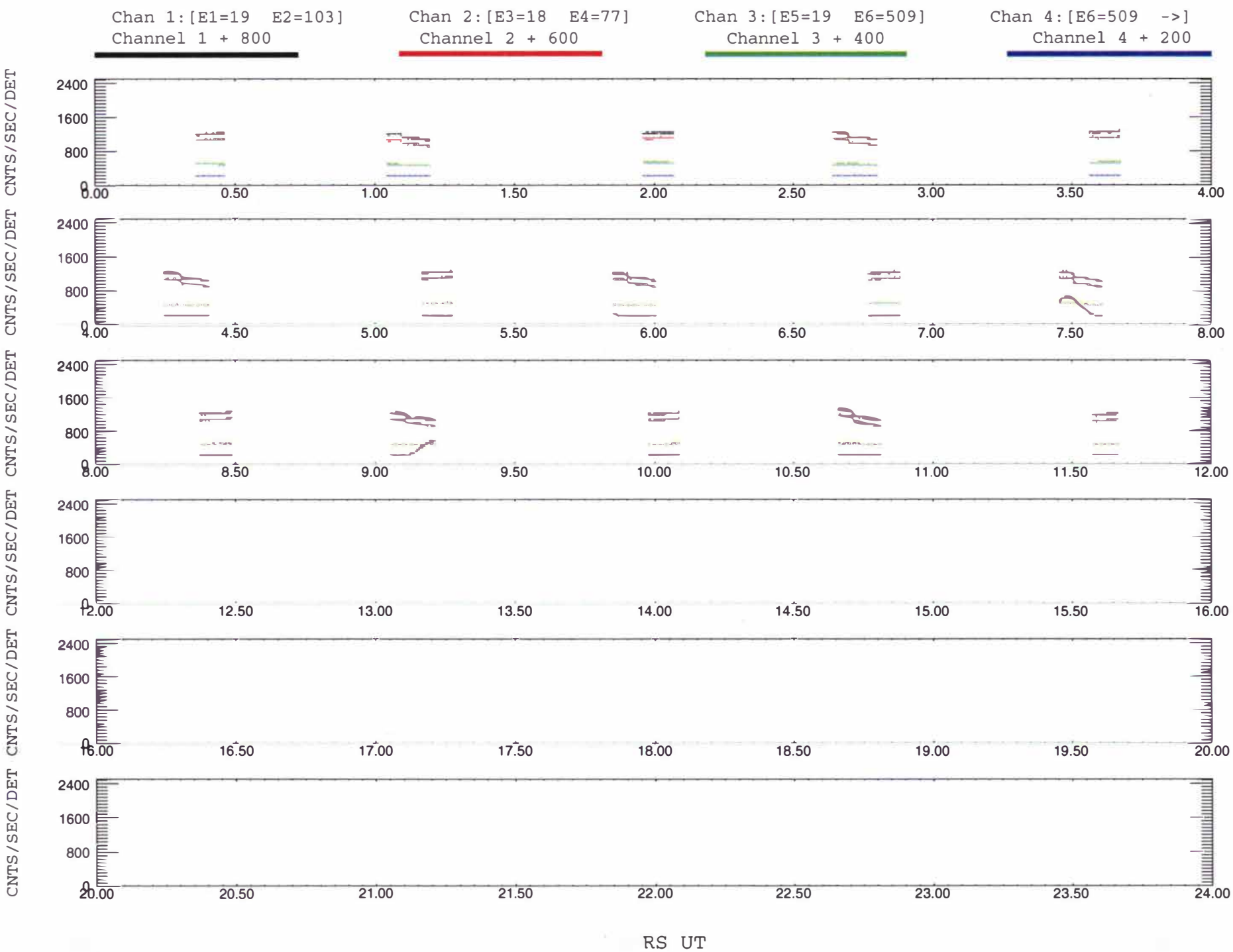
50- 3000 keV

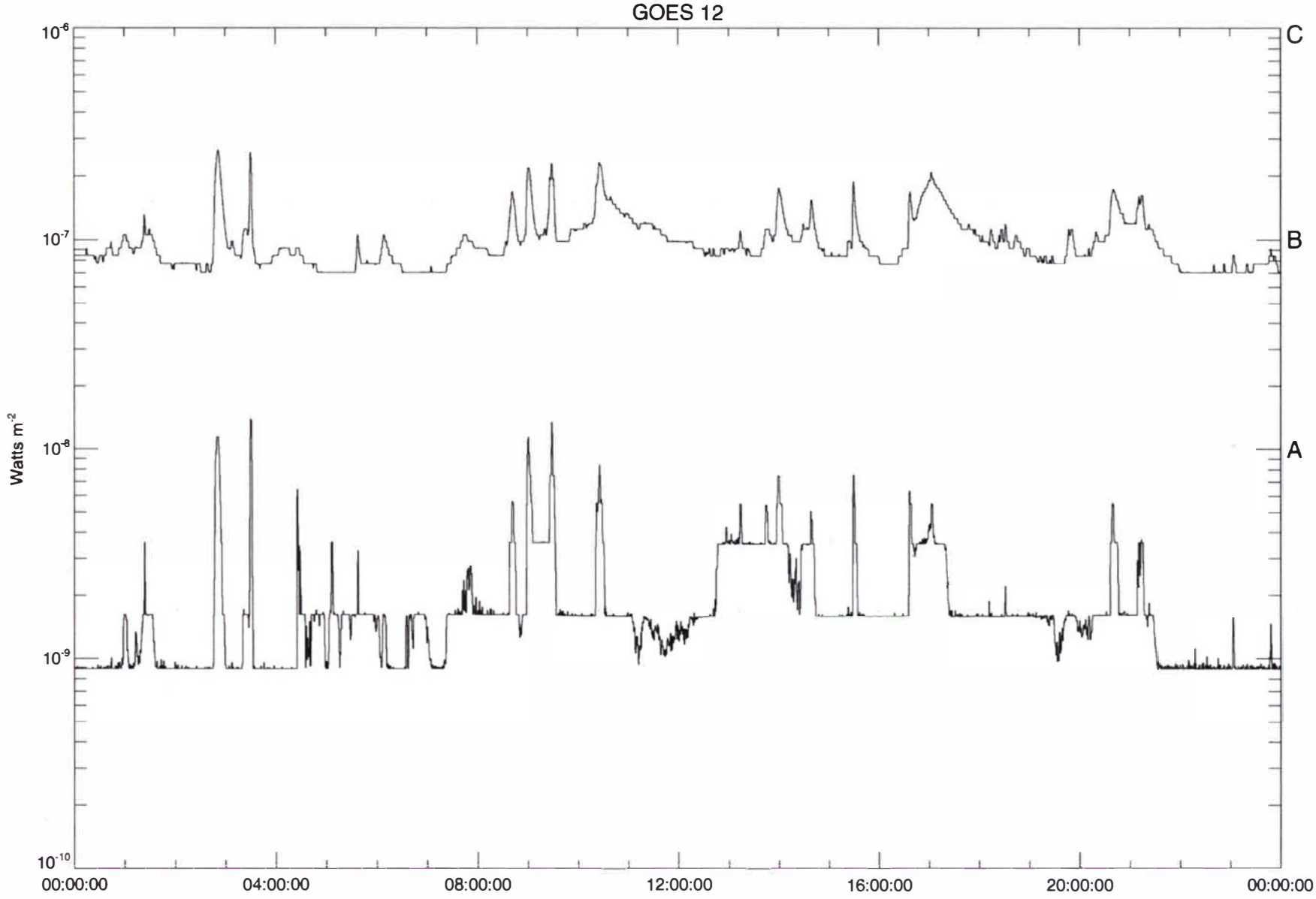


HESSI 30/06/06 79899.000 (MO_GE_20060630_81199)

25- 150 keV




FREGATE SURVEY (TH) TIME HISTORY (AVG x16) -- DETECTORS 1-4 SUMMED
30/06/06 DOY 181 Julian 2453917.50000 [est. sct = 0019 d50c bd23 65ab]
Chan 1:[E1=19 E2=103]
Channel 1 + 800
Chan 2:[E3=18 E4=77]
Channel 2 + 600
Chan 3:[E5=19 E6=509]
Channel 3 + 400
Chan 4:[E6=509 ->]
Channel 4 + 200
CNTS/SEC/DET
2400
1600
800
0
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.00
8.50
9.00
9.50
10.00
10.50
11.00
11.50
12.00
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00
16.00
16.50
17.00
17.50
18.00
18.50
19.00
19.50
20.00
20.00
20.50
21.00
21.50
22.00
22.50
23.00
23.50
24.00
RS UT



Data Start: 06/06/30, 0000:00 Plot created: 06/09/08, 2222
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted
Sample average = 10