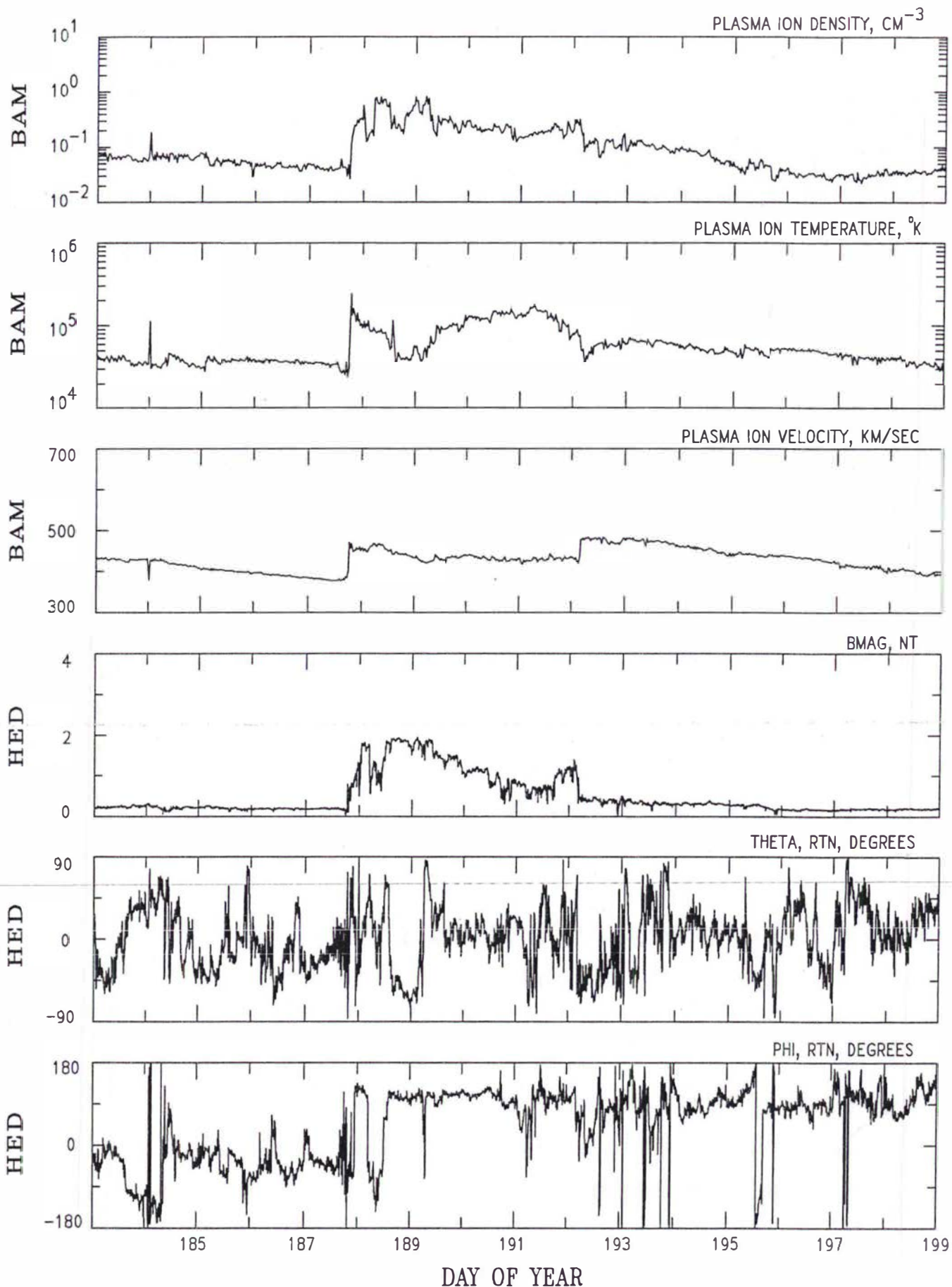


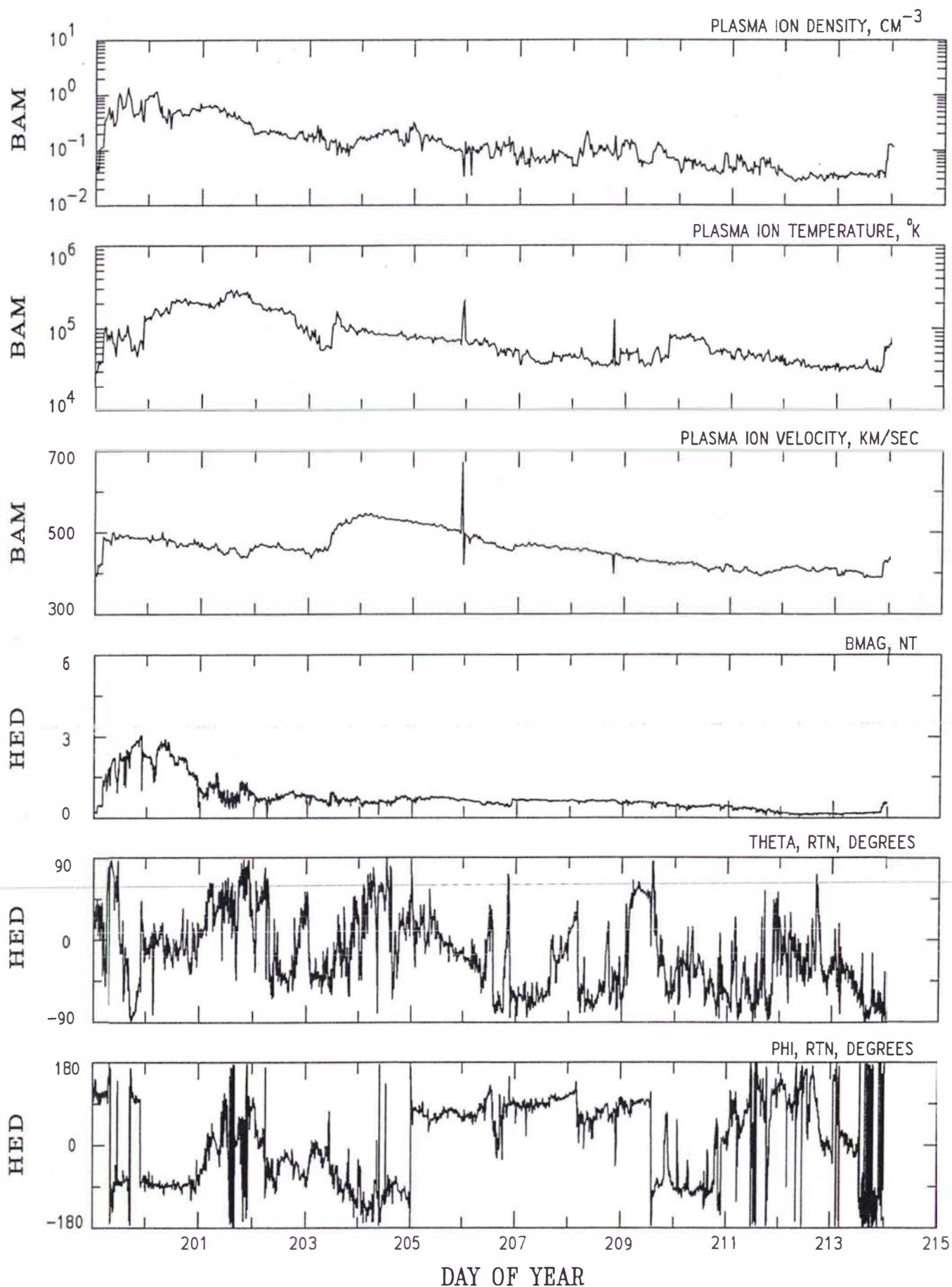
ULYSSES CDR - SOLAR WIND PLASMA AND MAGNETIC FIELD

04 183 JUL 1 00:00:00.000 - 04 199 JUL 17 00:00:00.000



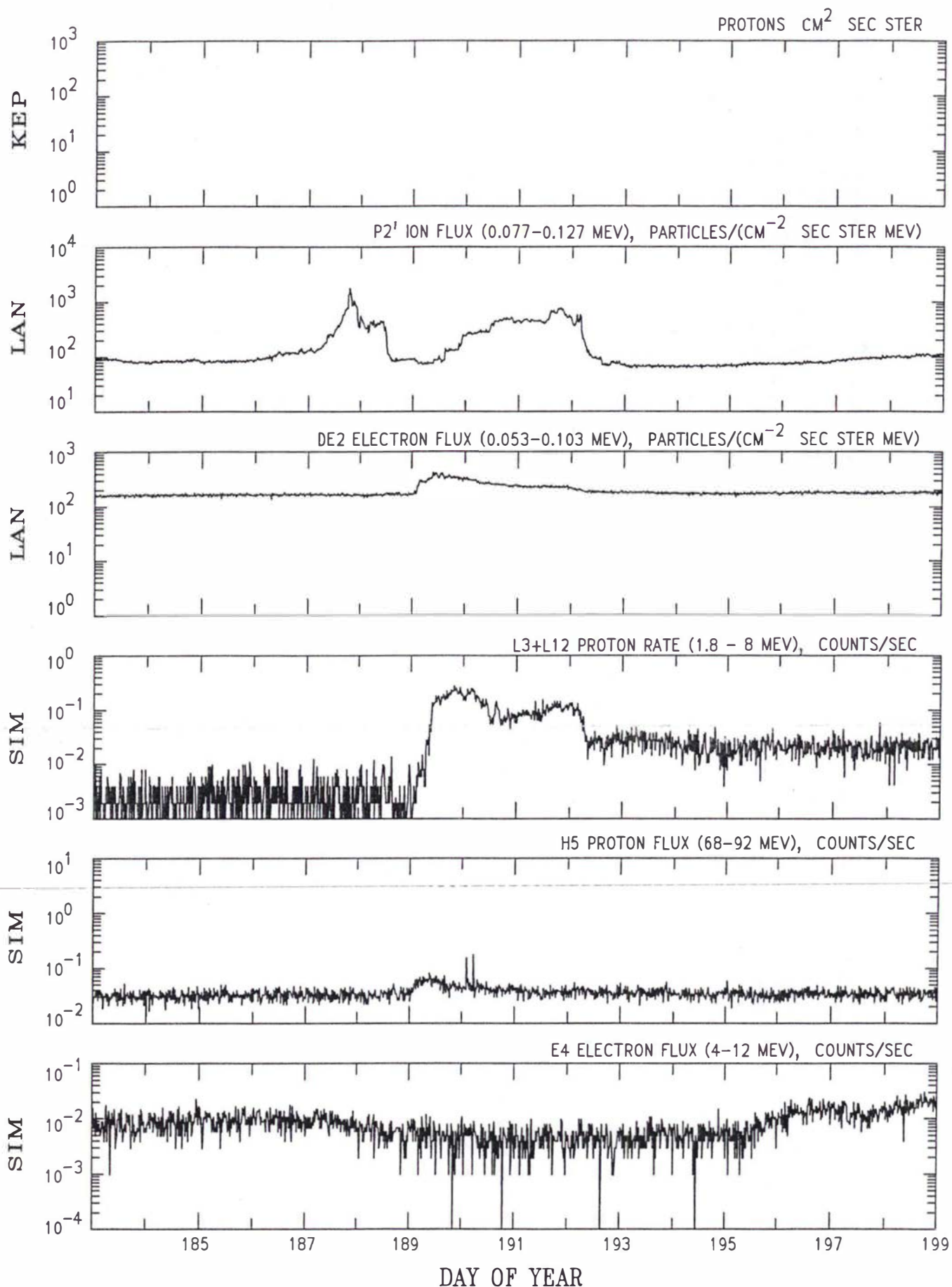
ULYSSES CDR - SOLAR WIND PLASMA AND MAGNETIC FIELD

04 199 JUL 17 00:00:00.000 - 04 215 AUG 2 00:00:00.000



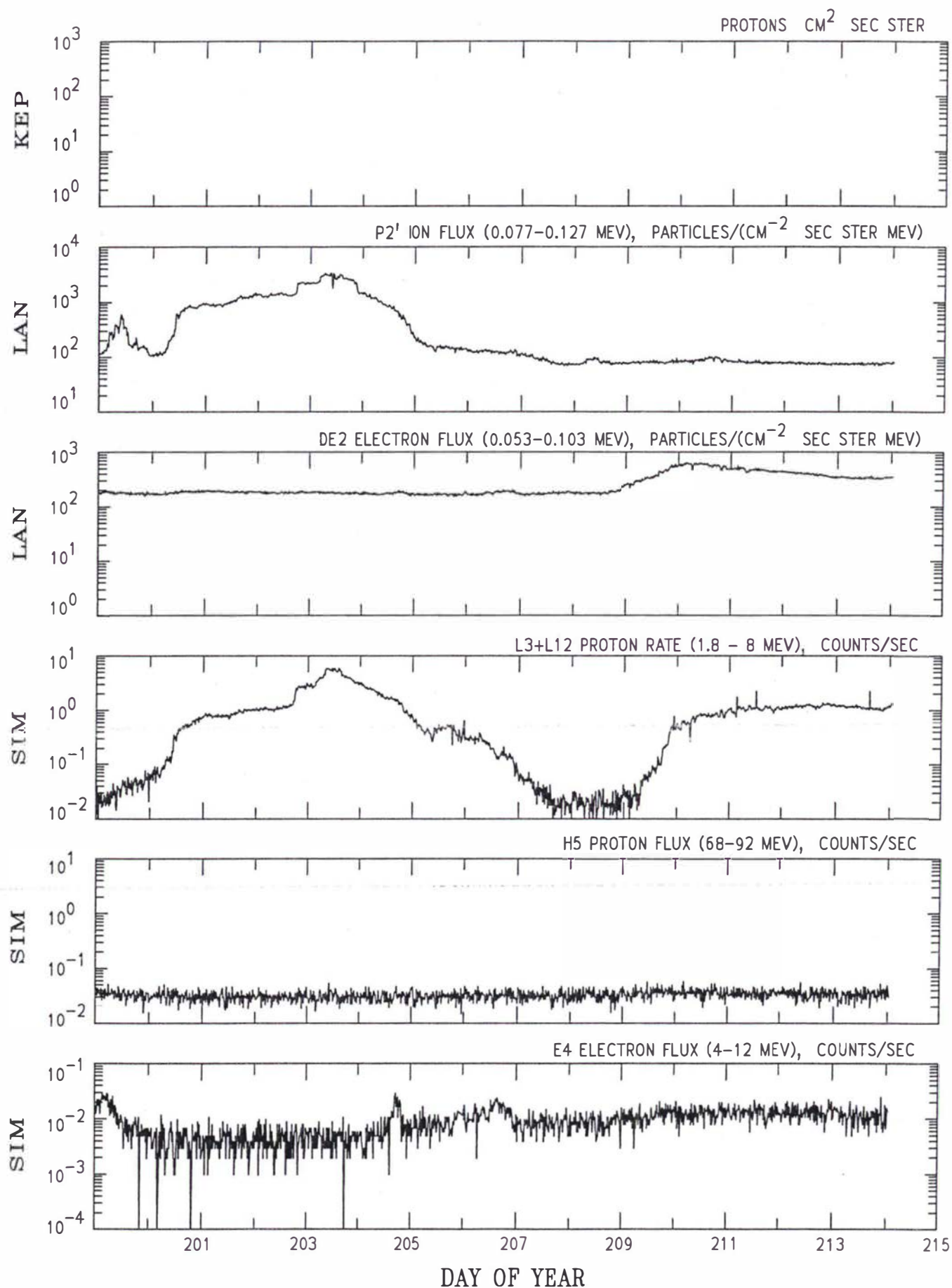
ULYSSES CDR - ENERGETIC PARTICLES, LOW ENERGY IONS AND COSMIC RAY

04 183 JUL 1 00:00:00.000 - 04 199 JUL 17 00:00:00.000



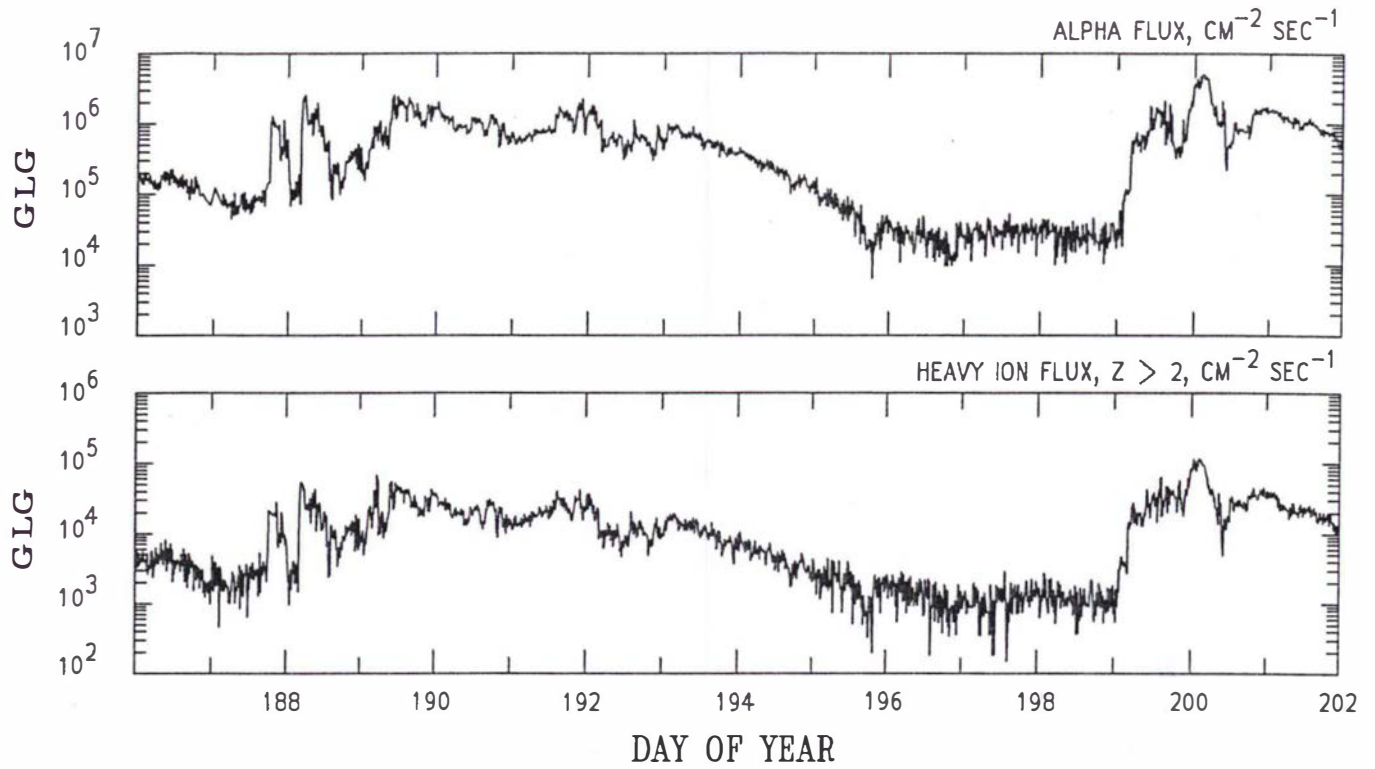
ULYSSES CDR - ENERGETIC PARTICLES, LOW ENERGY IONS AND COSMIC RAY

04 199 JUL 17 00:00:00.000 - 04 215 AUG 2 00:00:00.000



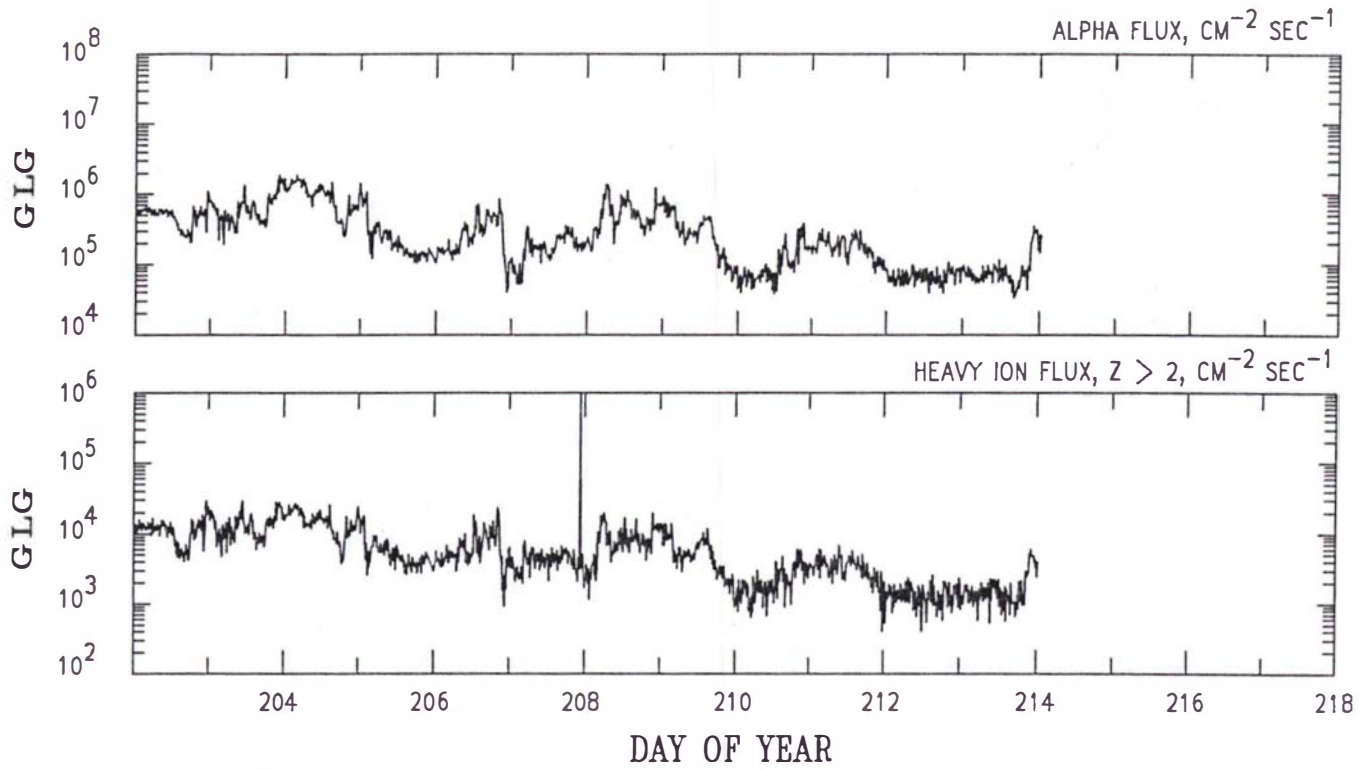
ULYSSES CDR - SOLAR WIND ION COMPOSITION

04 186 JUL 4 00:00:00.000 - 04 202 JUL 20 00:00:00.000



ULYSSES CDR - SOLAR WIND ION COMPOSITION

04 202 JUL 20 00:00:00.000 - 04 218 AUG 5 00:00:00.000



From hops@space.mit.edu Wed Jun 30 20:10:51 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Thu, 1 Jul 2004 03:11:44 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

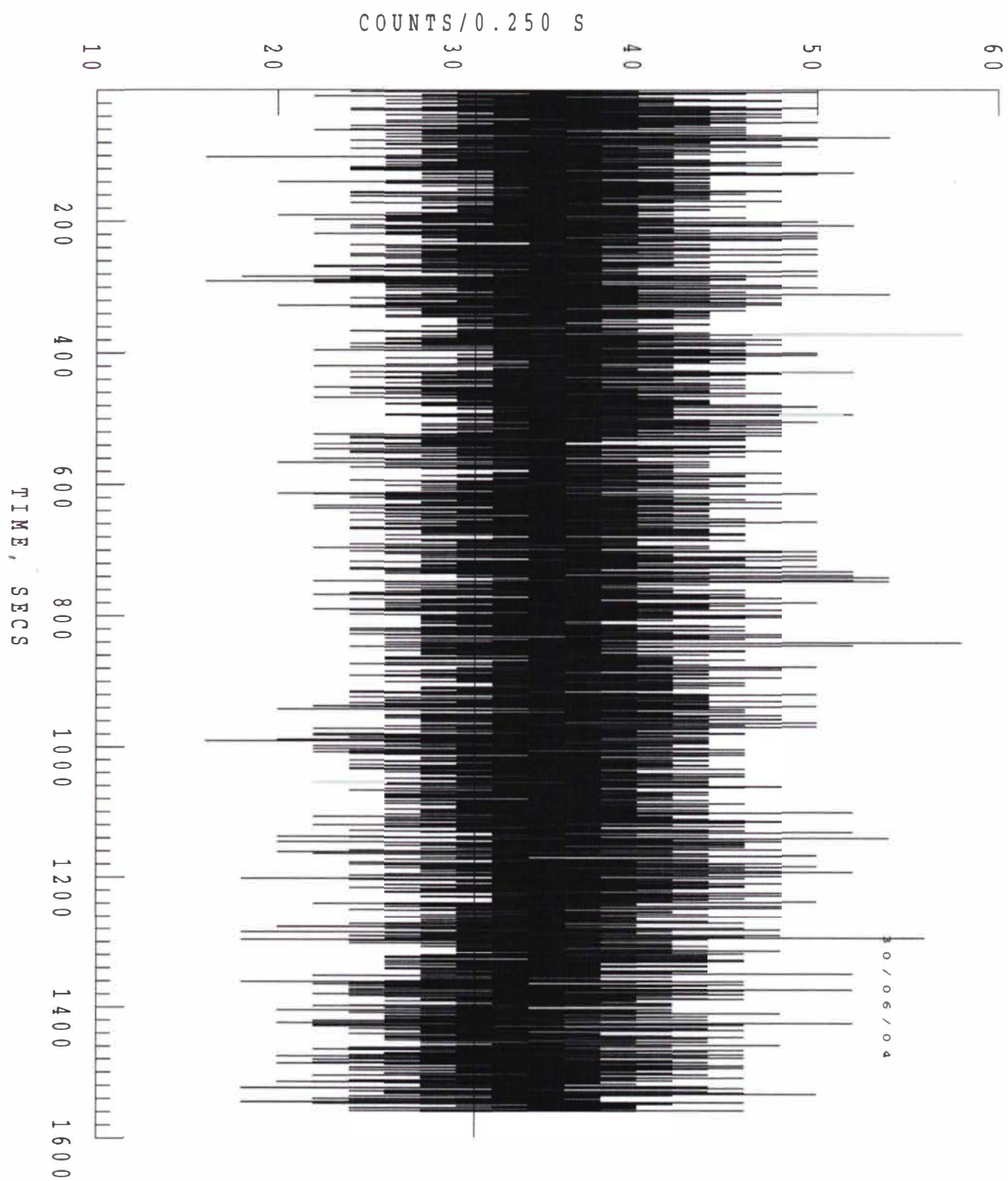
TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Thu Jul 1 03:11:44 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13187 TJD; 183 DOY; 04/07/01
GRB_TIME: 7527.70 SOD {02:05:27.70} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

MS01

01/07/04

6182.469

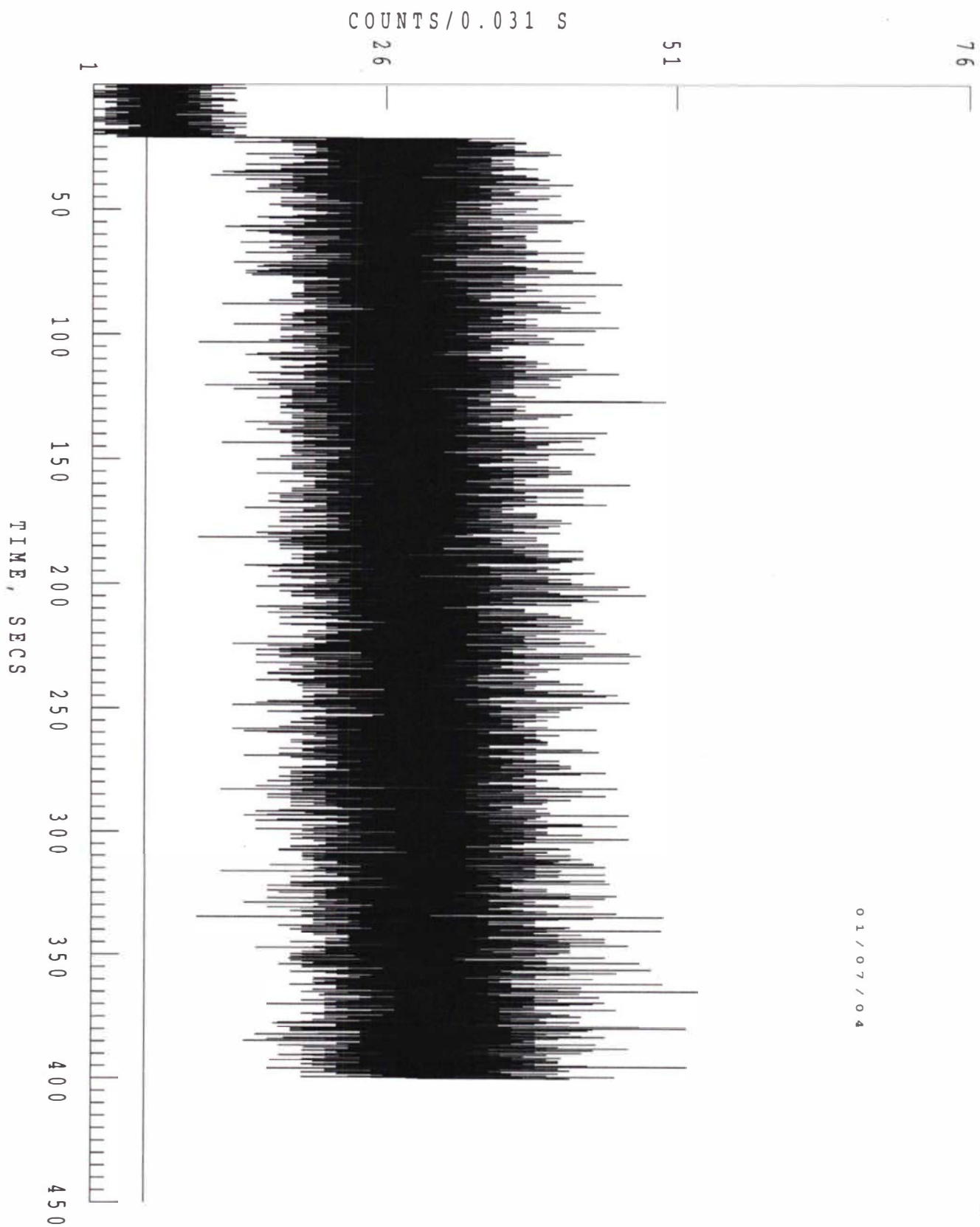
50 - 3000 keV



HESSI

01/07/04 7327.000 (GHETE_9999_1_20040701_07527)

25- 150 keV



From vxw@capella.gsfc.nasa.gov Sat Jul 3 07:00:04 2004
Date: Sat, 3 Jul 2004 10:00:59 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@sunspot.ssl.berkeley.edu
Subject: GCN/HETE_POSITION

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Sat 03 Jul 04 13:59:35 UT
NOTICE_TYPE: HETE Ground Analysis
TRIGGER_NUM: 11548, Seq_Num: 1
GRB_DATE: 13187 TJD; 183 DOY; 04/07/01
GRB_TIME: 46855.00 SOD {13:00:55.00} UT
TRIGGER_SOURCE: Trigger on the 2-30 keV band.
SC_Z_RA: 314 [deg]
SC_Z_DEC: -35 [deg]
SC_LONG: 180 [deg East]
WXM_CNTR_RA: 311.943d {+20h 47m 46s} (J2000),
312.016d {+20h 48m 04s} (current),
311.125d {+20h 44m 30s} (1950)
WXM_CNTR_DEC: -40.237d {-40d 14' 12"} (J2000),
-40.220d {-40d 13' 12"} (current),
-40.422d {-40d 25' 17"} (1950)
WXM_MAX_SIZE: 16.00 [arcmin] diameter
WXM_LOC_SN: 11 sig/noise (pt src in image)
WXM_IMAGE_SN: X= 11.0 Y= 9.1 [sig/noise]
WXM_LC_SN: X= 15.0 Y= 10.0 [sig/noise]
SUN_POSTN: 100.90d {+06h 43m 36s} +23.06d {+23d 03' 36"}
SUN_DIST: 148.69 [deg]
MOON_POSTN: 266.52d {+17h 46m 05s} -27.16d {-27d 09' 33"}
MOON_DIST: 39.56 [deg]
MOON_ILLUM: 99 [%]
GAL_COORDS: 1.63, -38.67 [deg] galactic lon,lat of the burst
ECL_COORDS: 303.26, -21.52 [deg] ecliptic lon,lat of the burst
COMMENTS: HETE Message.
COMMENTS: Definite GRB
COMMENTS: WXM error box is circular; not rectangular.
COMMENTS: Burst_VValidity flag is true
COMMENTS: UNTRIGGERED XRF

From gcncirc@nlheawww.gsfc.nasa.gov Sat Jul 3 08:57:45 2004
From: GCN Circulars <gcncirc@nlheawww.gsfc.nasa.gov>
Subject: XRF040701 (=U11548): a bright XRF detected by HETE
To: khurley@sunspot.ssl.berkeley.edu
Date: Sat, 3 Jul 2004 11:58:36 -0400 (EDT)
Affiliation: NASA-GSFC LHEA
Project: GCN (GRB Coordinates Network), Circular Service
Phone: 301-286-3106 (S.Barthelmy's office, -1684 fax)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit

MCT 48036
13:20:36

TITLE: GCN GRB OBSERVATION REPORT
NUMBER: 2620
SUBJECT: XRF040701 (=U11548): a bright XRF detected by HETE
DATE: 04/07/03 15:58:32 GMT
FROM: Roland Vanderspek at MIT <roland@space.mit.edu>

XRF040701 (=U11548): a bright XRF detected by HETE

C. Barraud, G. Ricker, J-L. Atteia, N. Kawai, D. Lamb, and S. Woosley,
on behalf of the HETE Science Team;

T. Donaghy, E. Fenimore, M. Galassi, C. Graziani, M. Matsuoka,
Y. Nakagawa, T. Sakamoto, R. Sato, Y. Shirasaki, M. Suzuki,
T. Tamagawa, K. Torii, Y. Urata, T. Yamazaki, Y. Yamamoto,
and A. Yoshida, on behalf of the HETE WXM Team;

N. Butler, G. Crew, J. Doty, A. Dullighan, G. Prigozhin, R. Vanderspek,
J. Villasenor, J. G. Jernigan, A. Levine, G. Azzibrouck, J. Braga,
Manchanda, and G. Pizzichini, on behalf of the HETE Operations and
HETE Optical-SXC Teams;

M. Boer, J-F Olive, J-P Dezalay, and K. Hurley, on behalf of the HETE
FREGATE Team

report:

Post-processing analysis of HETE data has revealed the presence of
XRF 040701, a bright XRF. The burst was detected at 13:00:55 UT
and had a duration of roughly 60 seconds. The XRF has been localized
to a circle of radius 8' centered at

RA = 20h 47m 46.3s, dec = -40d 14m 13s (J2000).

Preliminary spectral analysis shows the burst can be best fit with a
power law of index 2.395 ± 0.3 ; the 2-25 keV energy fluence is
 $4.5 \pm 0.8 \times 10^{-7}$ erg/cm².

Details of this burst can be found on the HETE web page at

<http://space.mit.edu/HETE/Bursts/GRB040701>

This message may be cited.

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_11548_1_20040701_46855)

BEG TIME: 01/07/04 DOY 183 Julian 2453189.04000 UT = 12.960 12:57:36 (46656.000 secs) [sct = 0019 9bce 01ec 0eed]
 END TIME: 01/07/04 DOY 183 Julian 2453189.04458 UT = 13.070 13:04:12 (47052.000 secs) [sct = 0019 9bce 1986 8b40]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

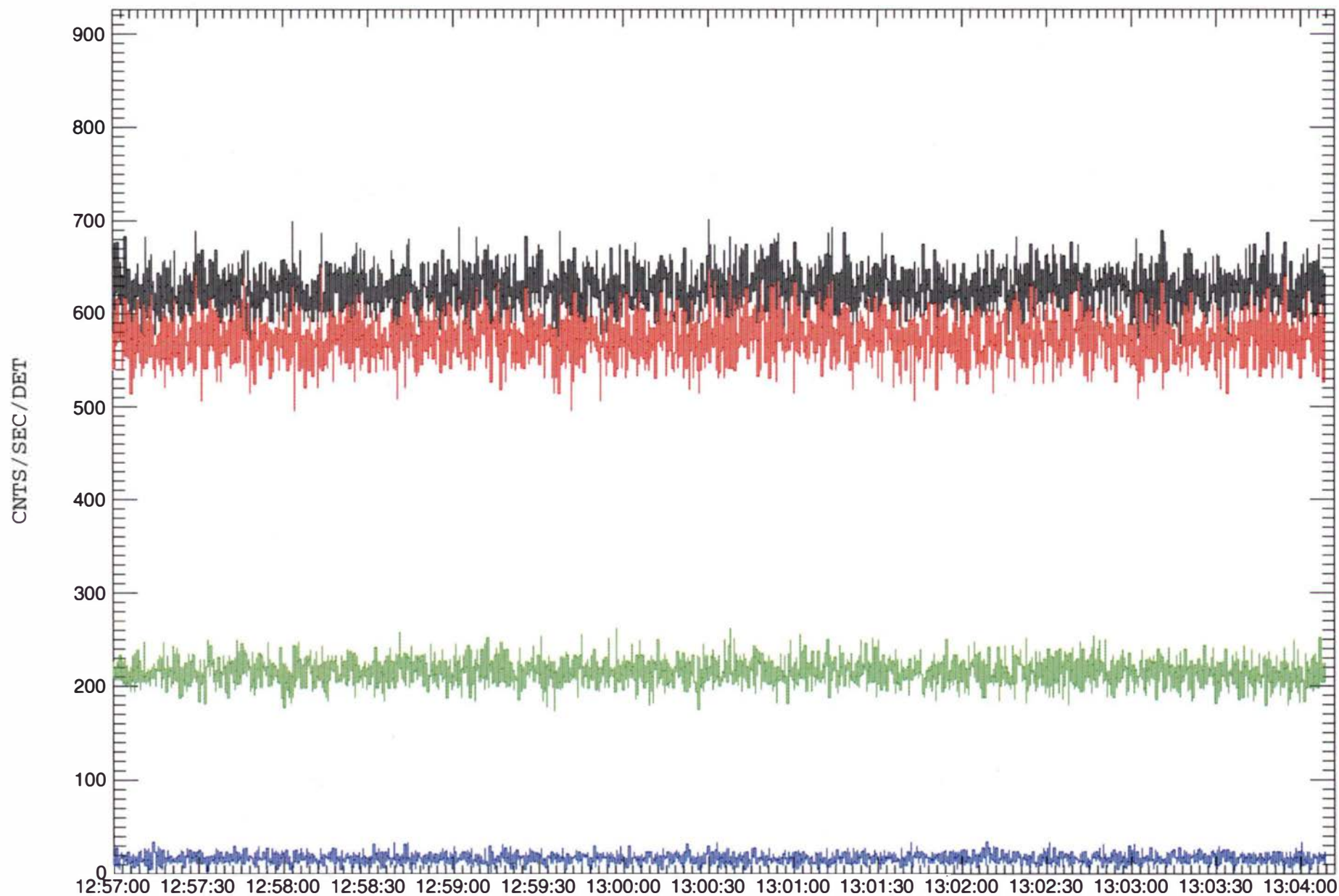
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

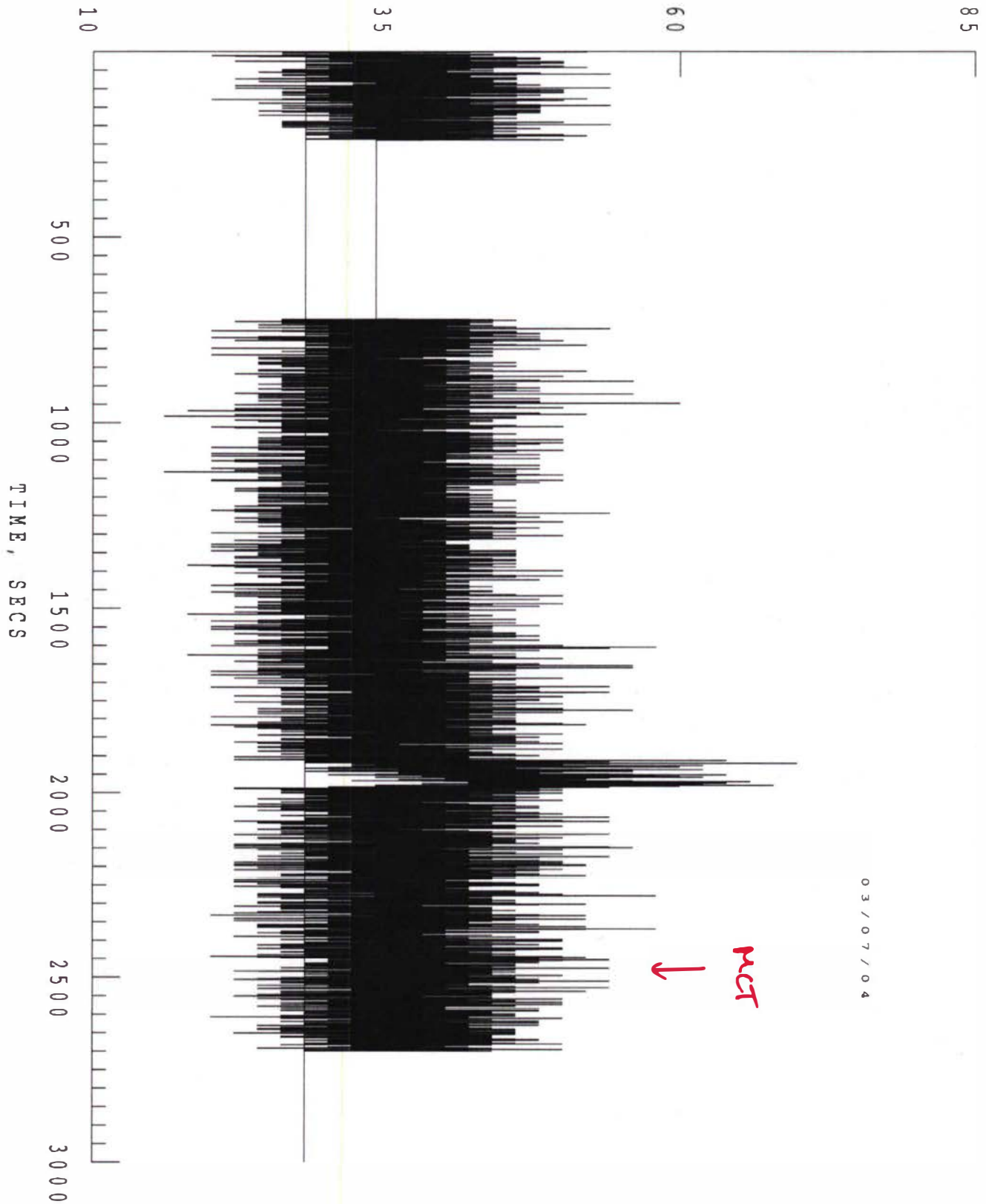
MS01

01/07/04

45481.995

50 - 3000 keV

COUNTS/0.250 S

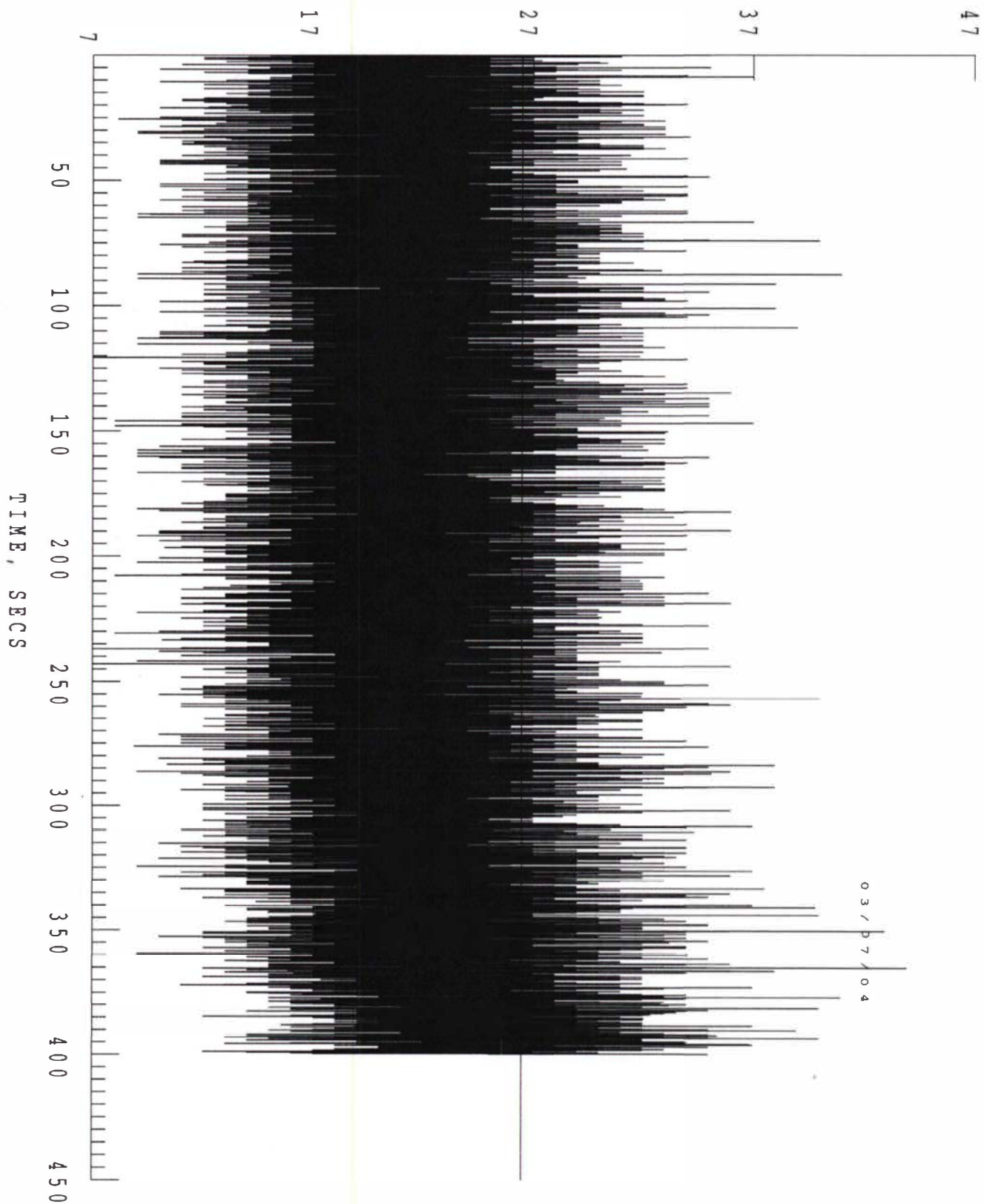


HESSI

01/07/04 46655.000 (GHETE_11548_1_20040701_46855)

25- 150 keV

COUNTS/0.031 S



From hops@space.mit.edu Thu Jul 1 09:01:04 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Thu, 1 Jul 2004 16:01:57 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE 25_50
X-Scanned-By: CanIt (www . canit . ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE DATE: Thu Jul 1 16:01:57 GMT 2004
NOTICE TYPE: HETE S/C Alert
TRIGGER NUM: 9999, Seq_Num: 1
GRB DATE: 13187 TJD; 183 DOY; 04/07/01
GRB TIME: 48016.89 SOD {13:20:16.89} UT
TRIGGER SOURCE: Nat's trigger robot
GAMMA RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20040701_48016)

BEG TIME: 01/07/04 DOY 183 Julian 2453189.05333 UT = 13.280 13:16:48 (47808.000 secs) [sct = 0019 9bce 4696 32c5]
 END TIME: 01/07/04 DOY 183 Julian 2453189.05792 UT = 13.390 13:23:24 (48204.000 secs) [sct = 0019 9bce 5e30 af18]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

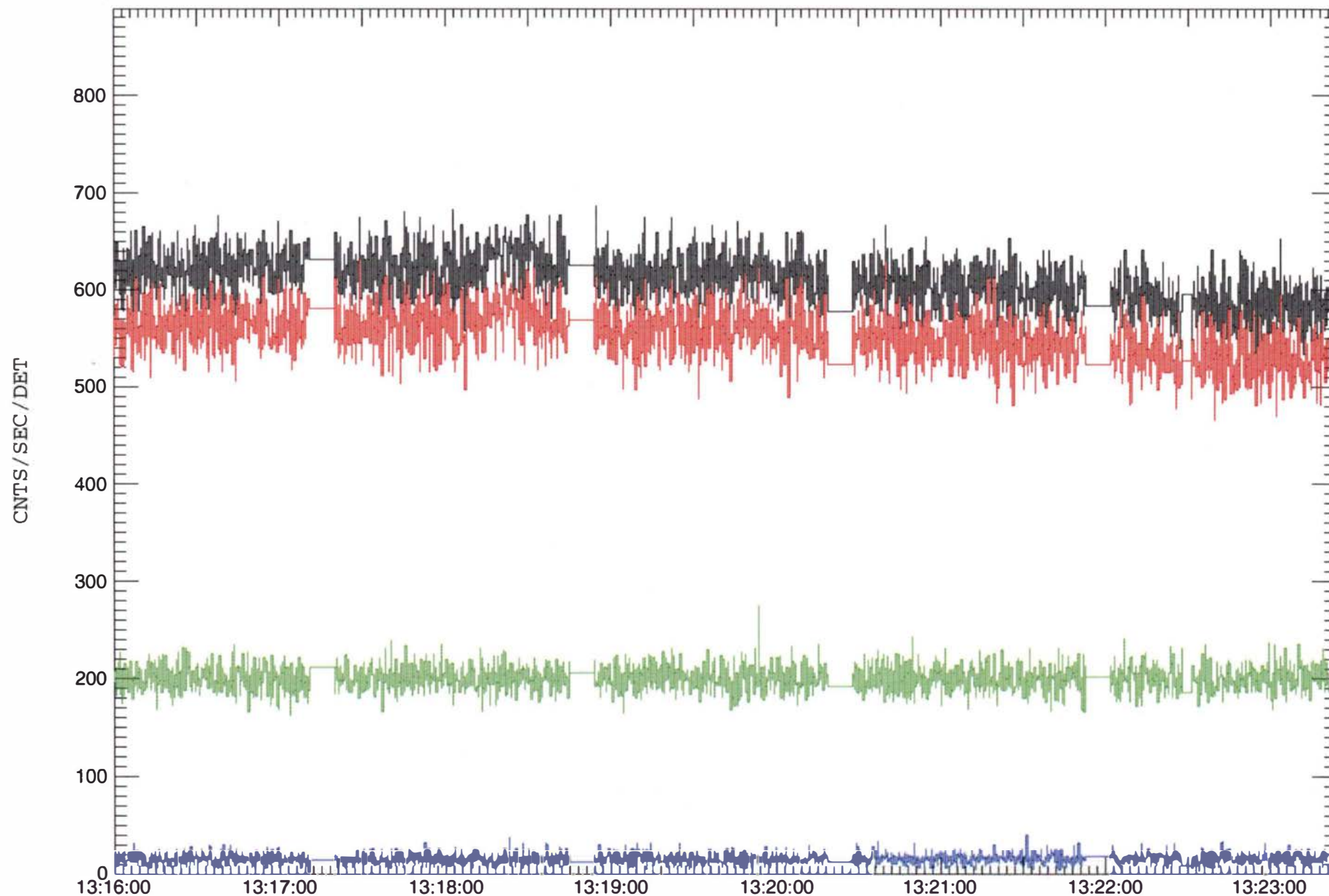
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



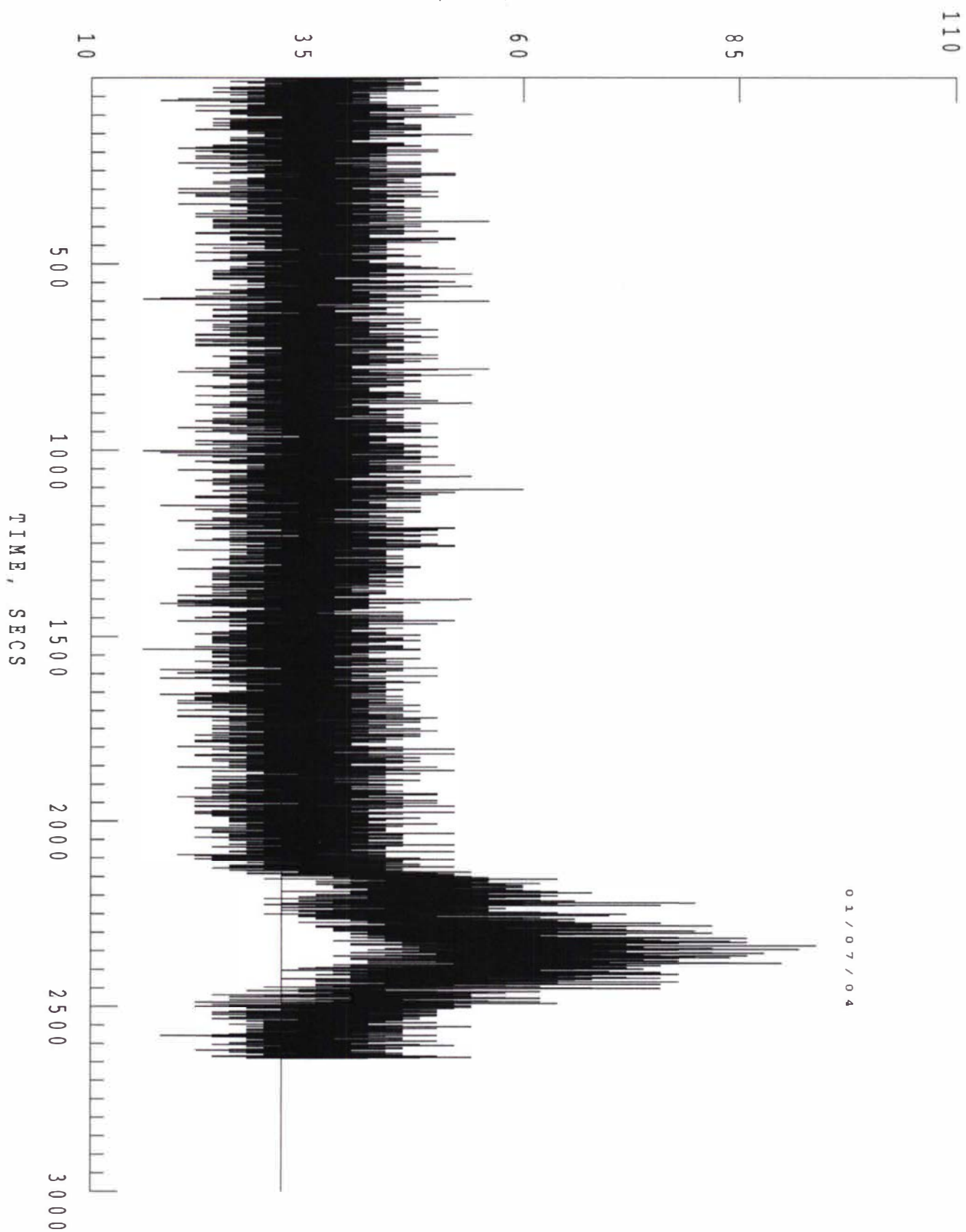
MS01

02/07/04

12241.512

50 - 3000 keV

COUNTS/0.250 S



Date: Aug 4 2004

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; when there is no data in the database, the ephemeris is for the time requested.)
- ☐ Was Mars-blocking used?

2. For 3 Spacecraft events

- ☐ $\Sigma 3\Delta t$'s calculated?

3. For INTEGRAL events

- ☐ 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 database updated?

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

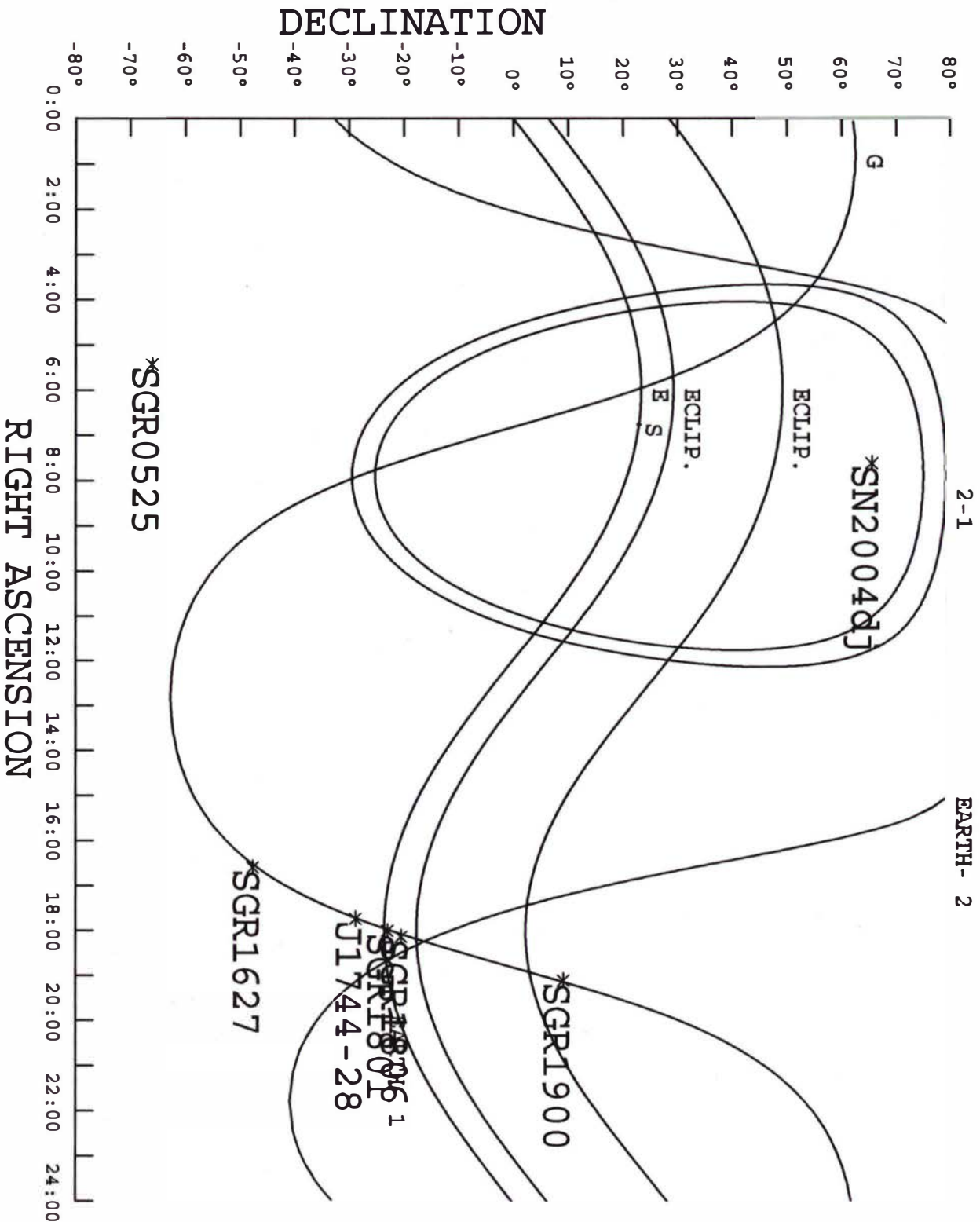
G=GALACTIC EQUATOR

1 KONUS2

2 HESSI

EVENT OF JUL 1, 2004 22:46

4 / 8 / 4



KONUS2

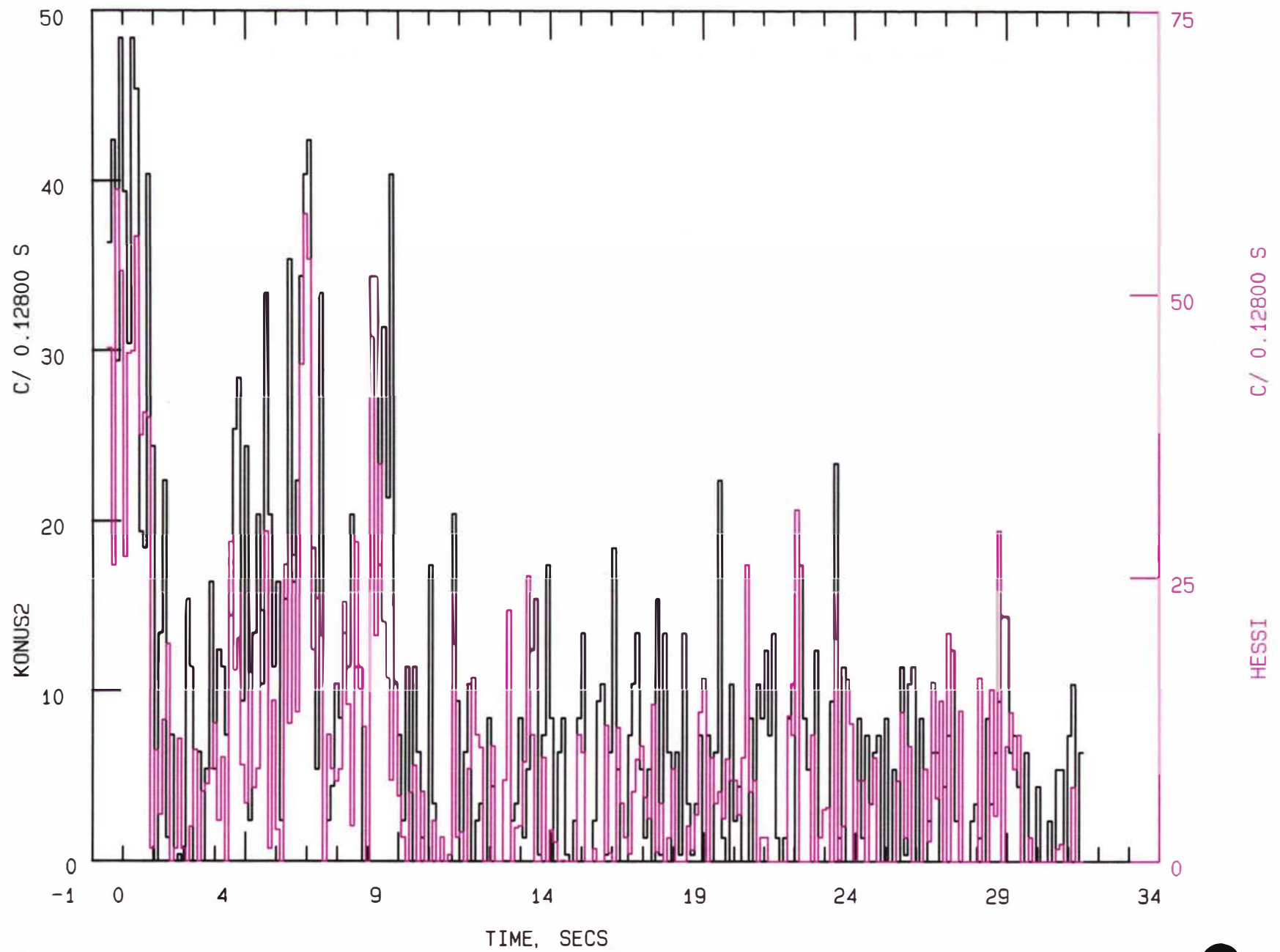
-HESSI

CORRELATION

01/07/04

82002.010

4/ 8/ 4



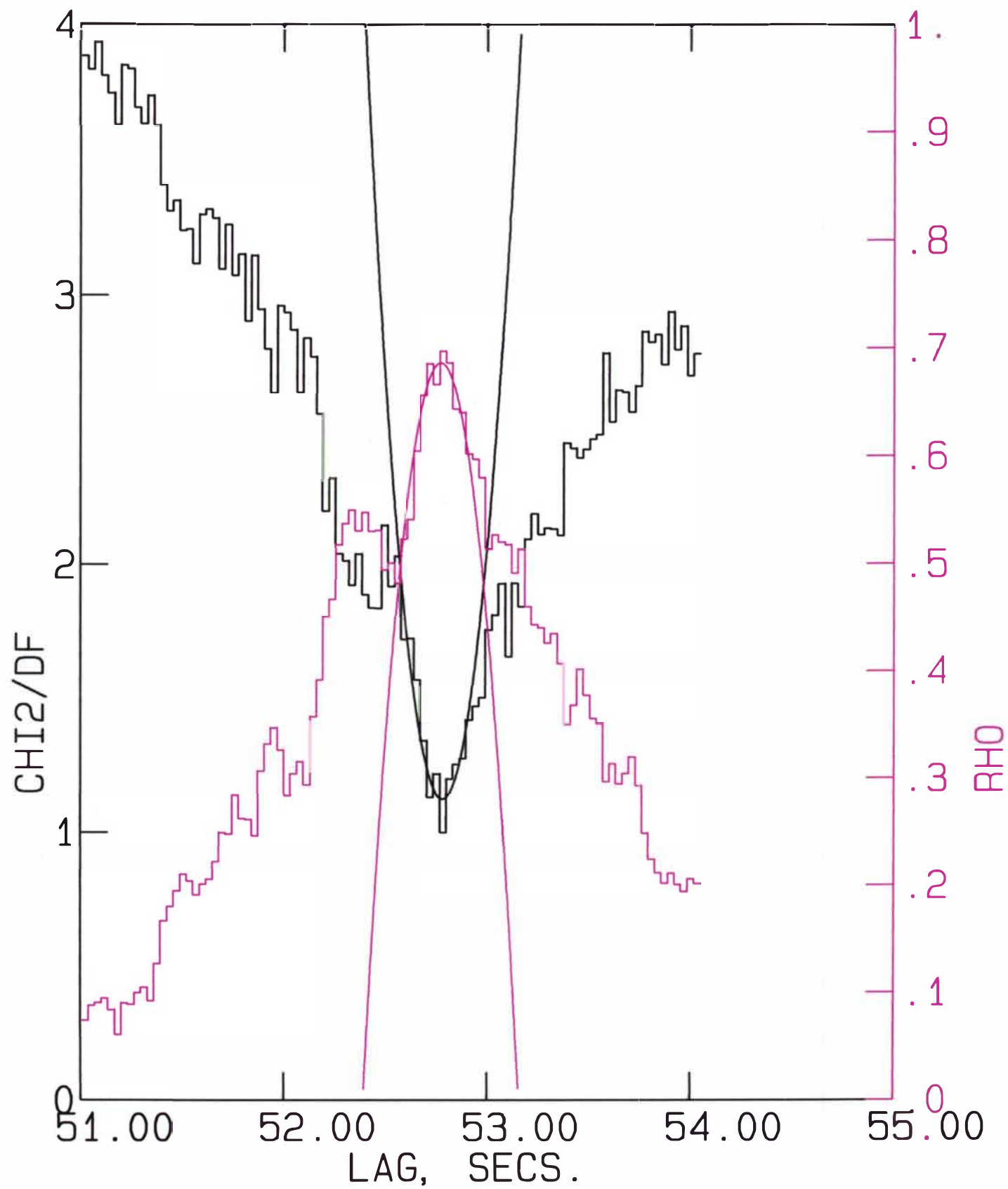
KONUS2

-HESSI

CORRELATION

01/07/04

82002.010

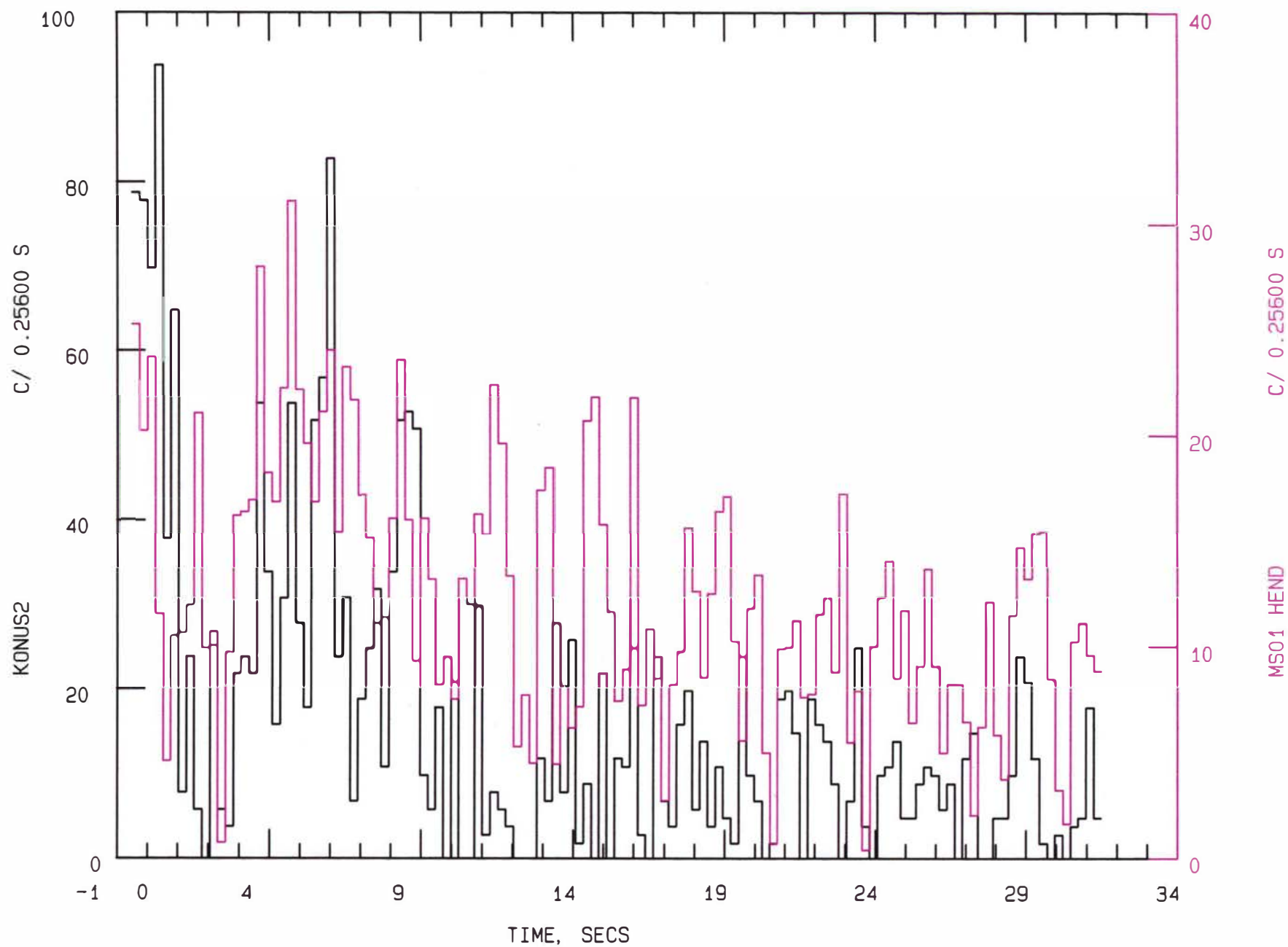


KONUS2

-MS01 HEND CORRELATION

01/07/04 82002.010

4/ 8/ 4

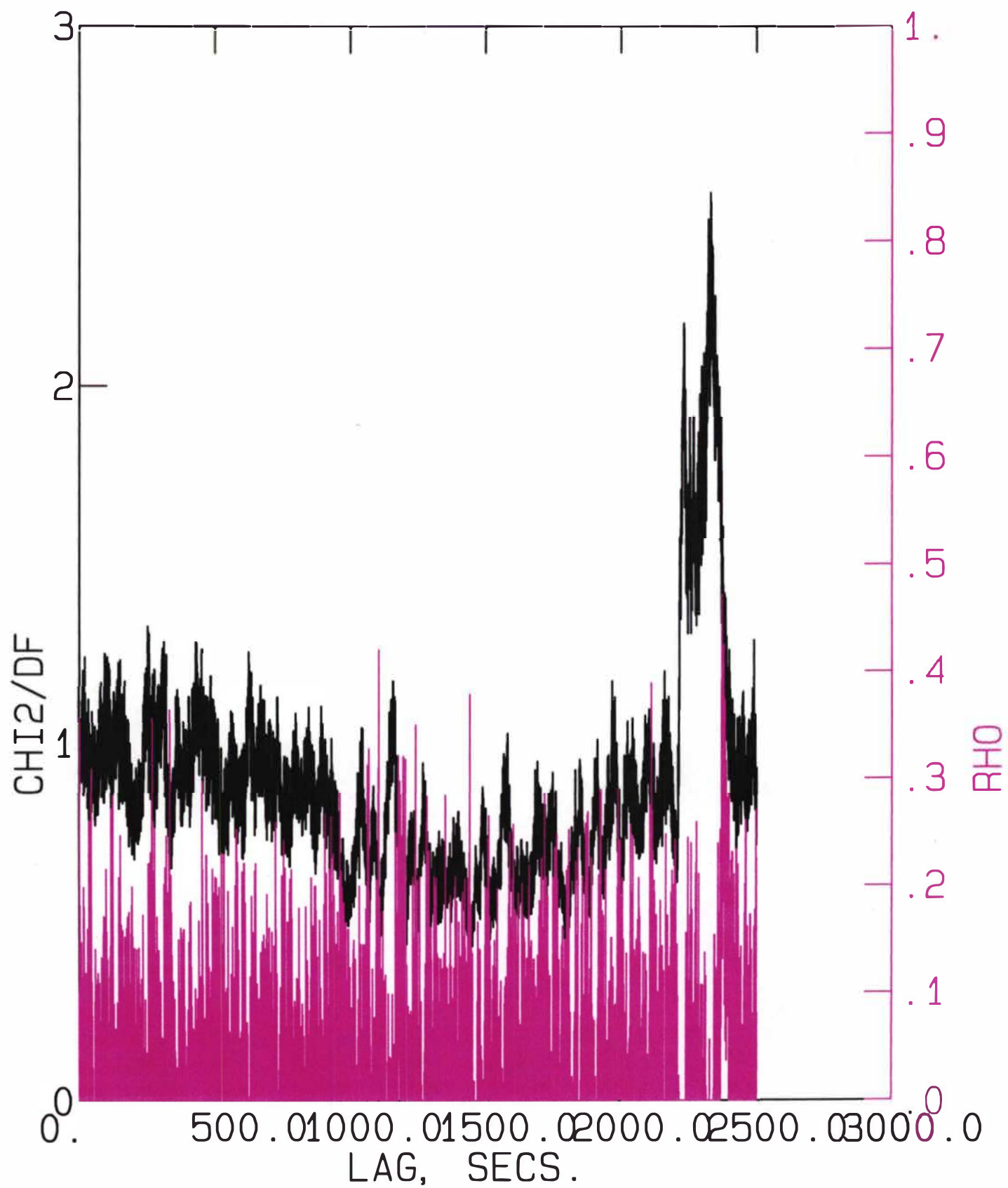


KONUS2

-MS01 HEND CORRELATION

01/07/04

82002.010



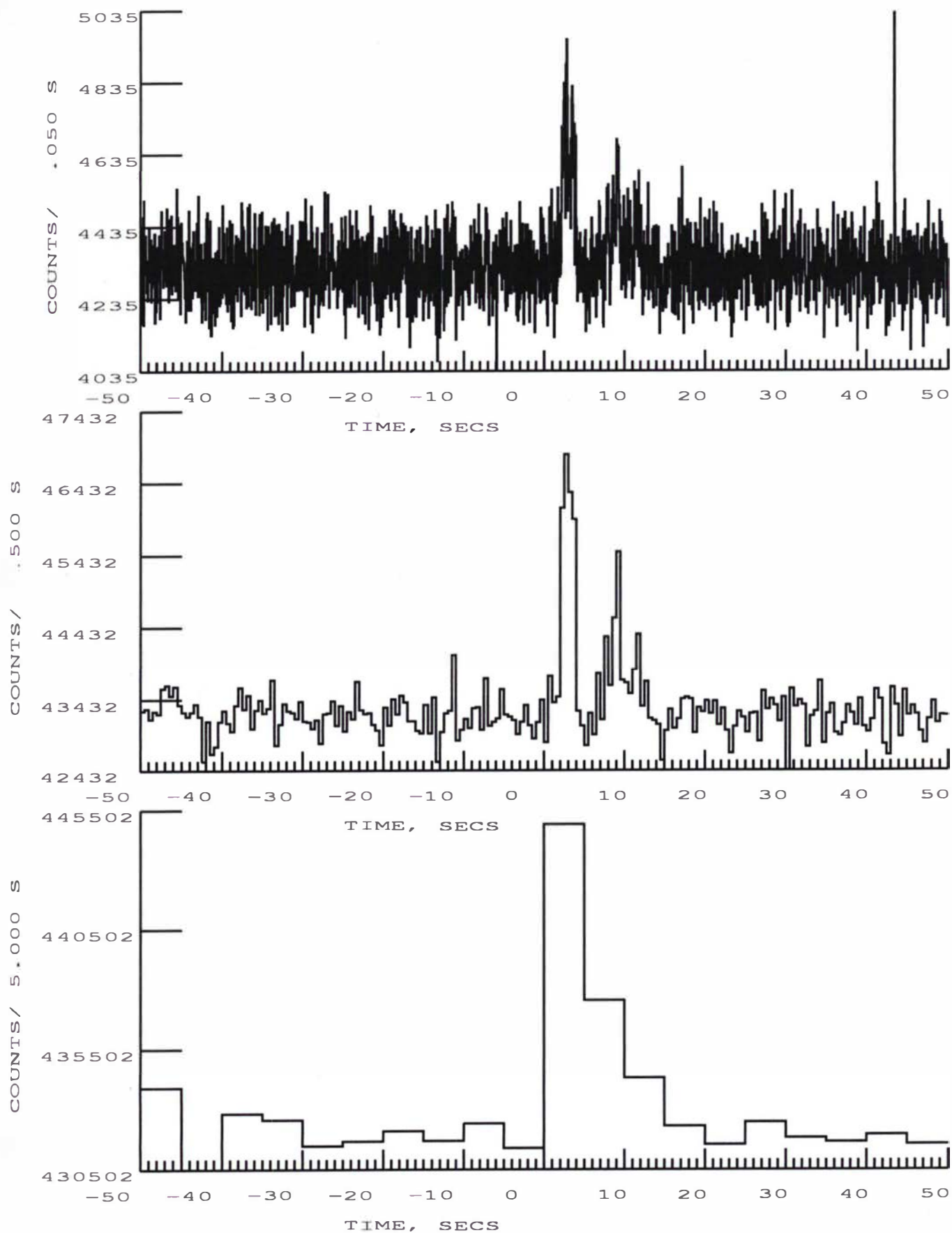
INTEGRAL

01/07/04

82002.000

22:46:42.0

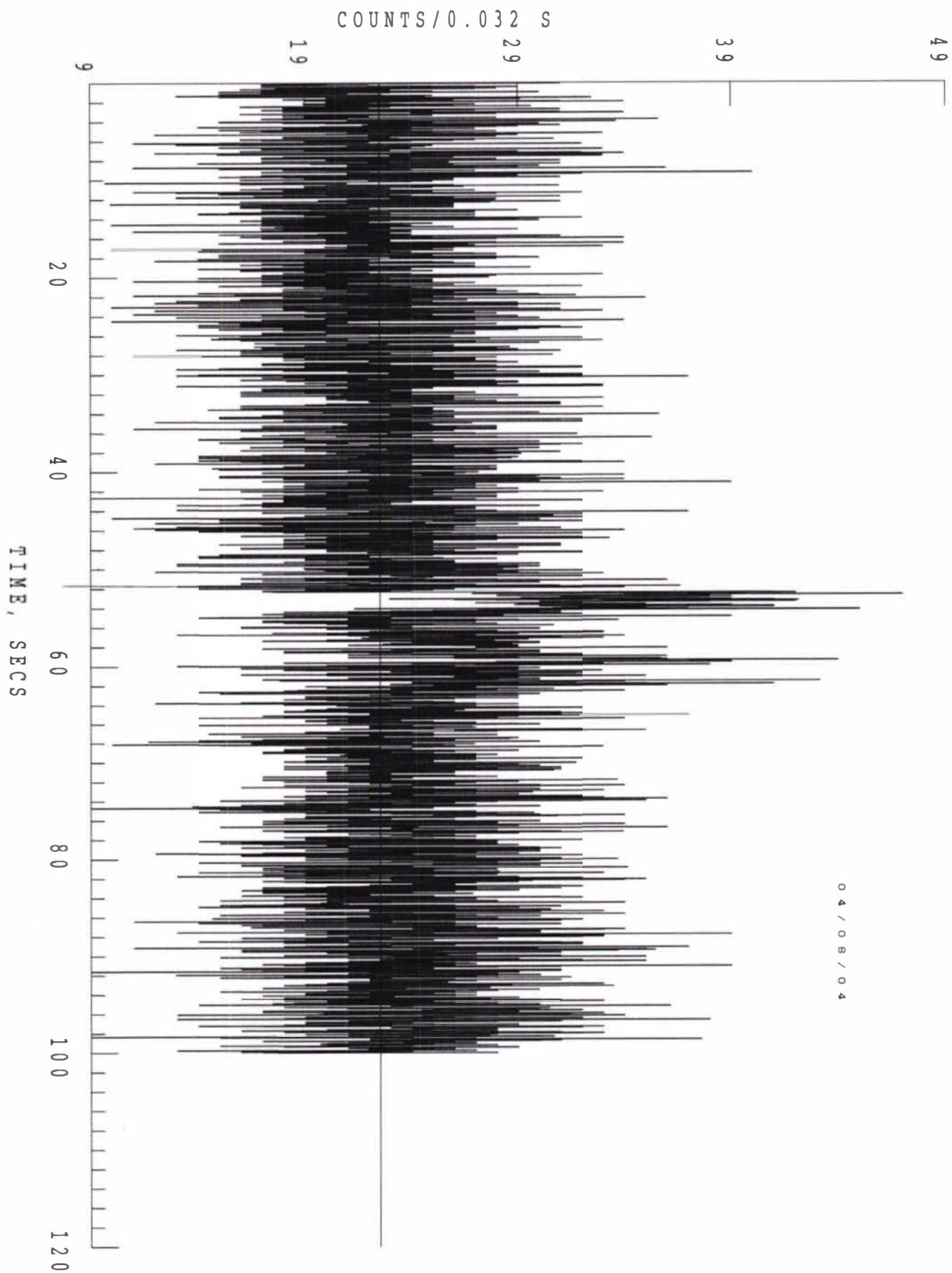
26/09/13



HESSI

01/07/04 81952.000 (KONUS_20040701_82002)

50- 200 keV



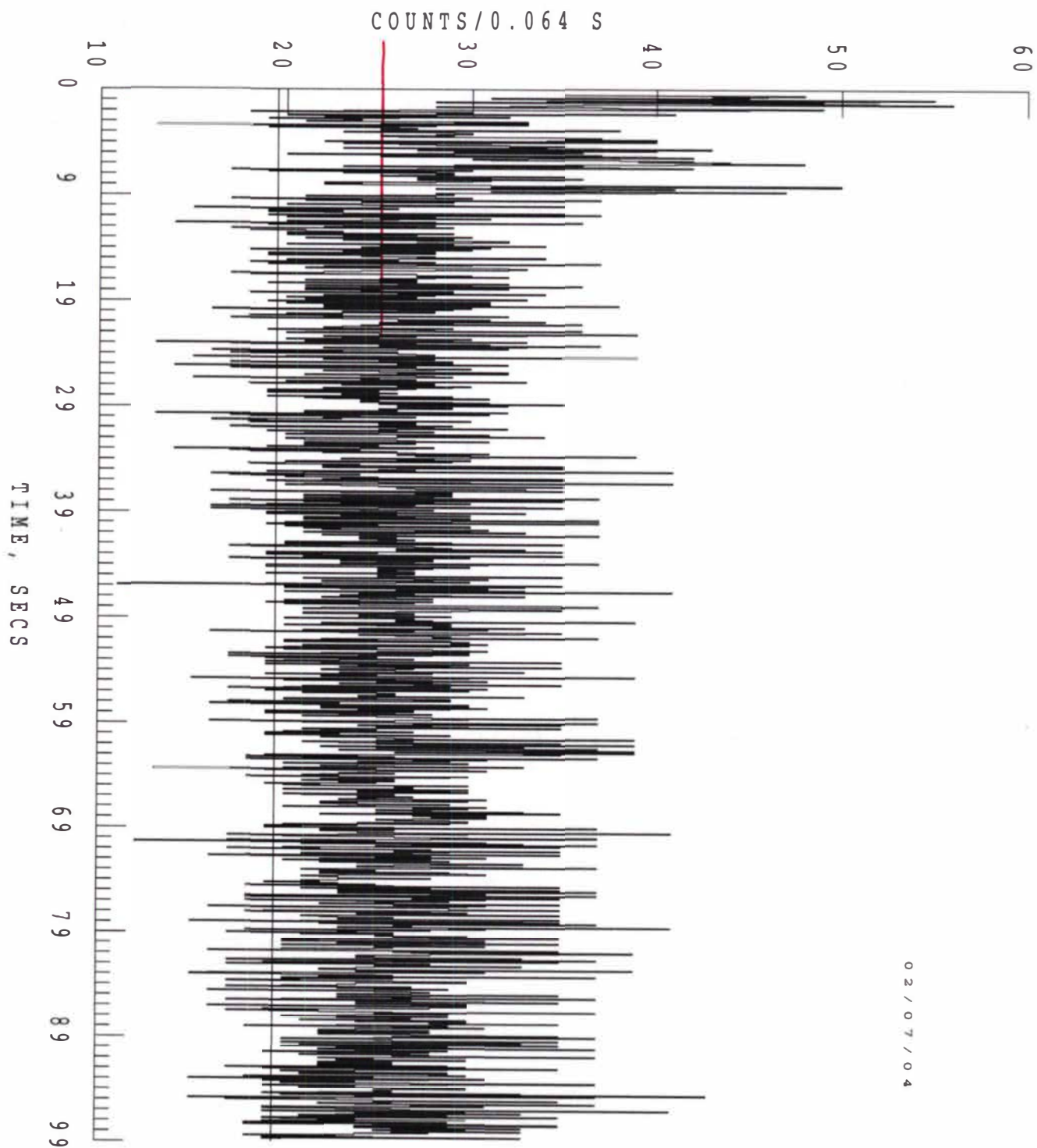
KONUS2

01/07/04

82002.010

50 - 200 keV

22:46:42



KONUS HRES 20040701 82002

TRIGGER TIME: 01/07/04 DOY 183 Julian 2453189.44910 UT = 22.778 22:46:42 (82002.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

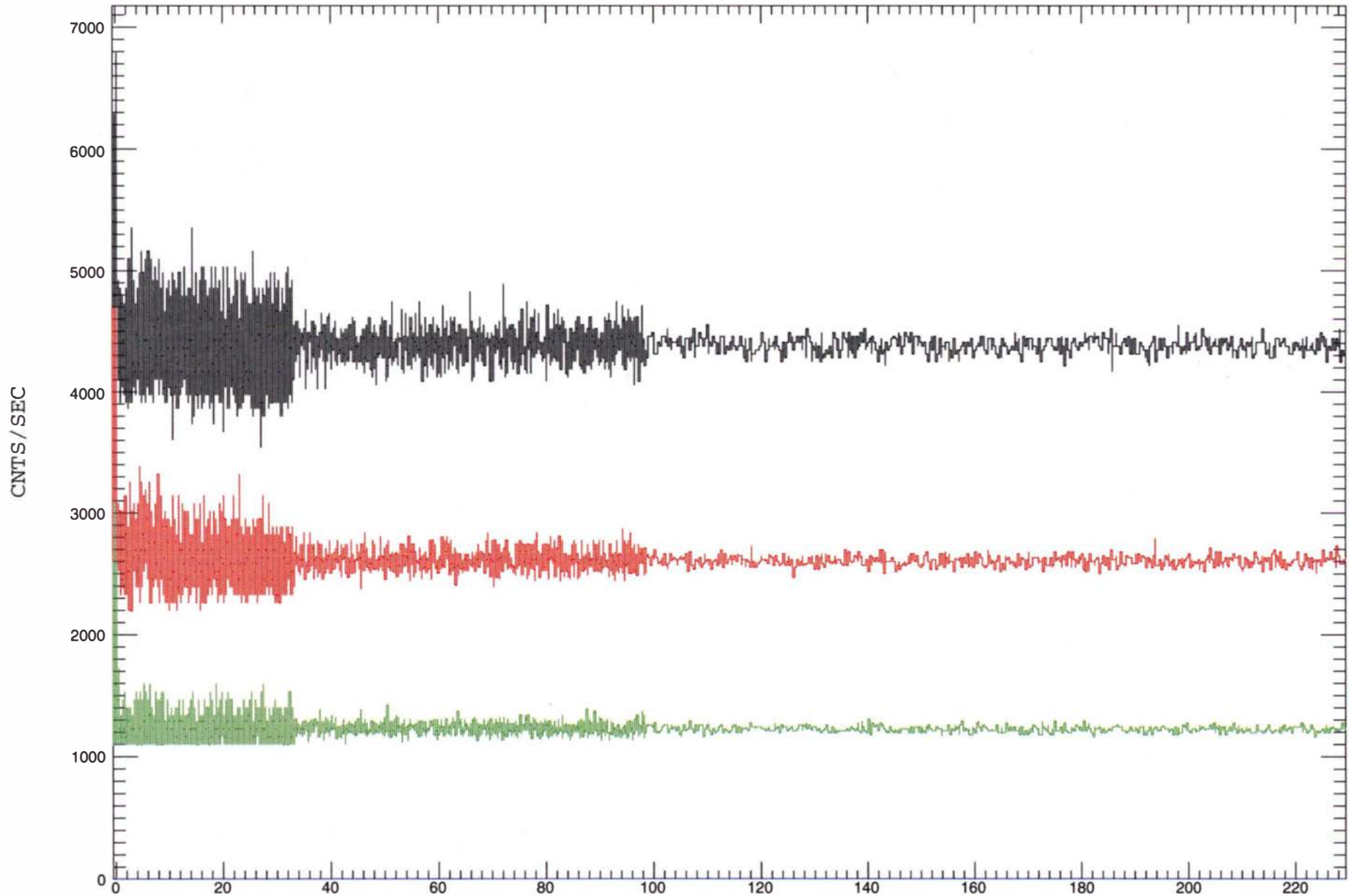
Chan 4 : [> 10 MeV]

Channel 1 + 3300

Channel 2 + 2200

Channel 3 + 1100

Channel 4 + 0



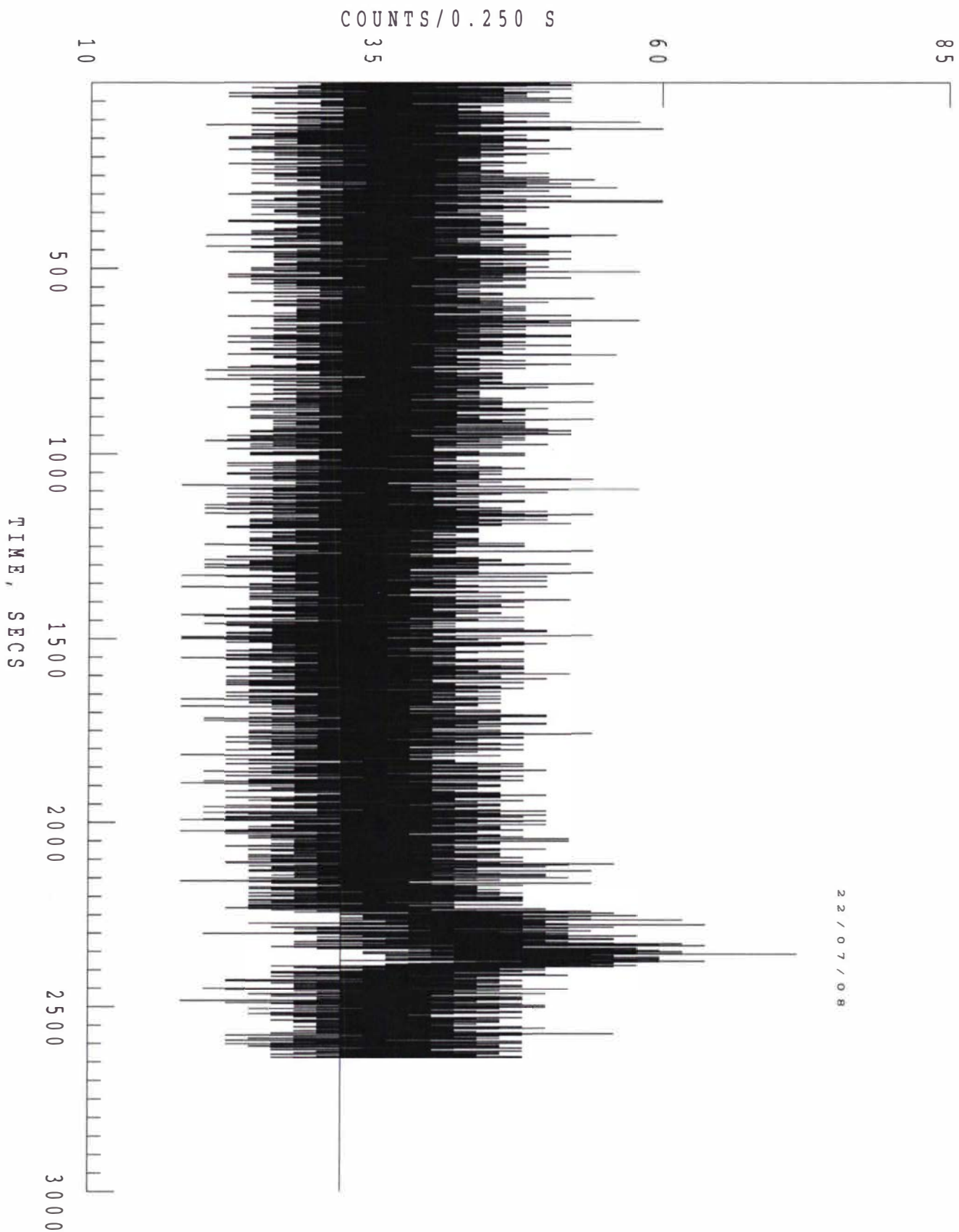
ONDS

MS01

01/07/04

80641.571

50 - 3000 keV

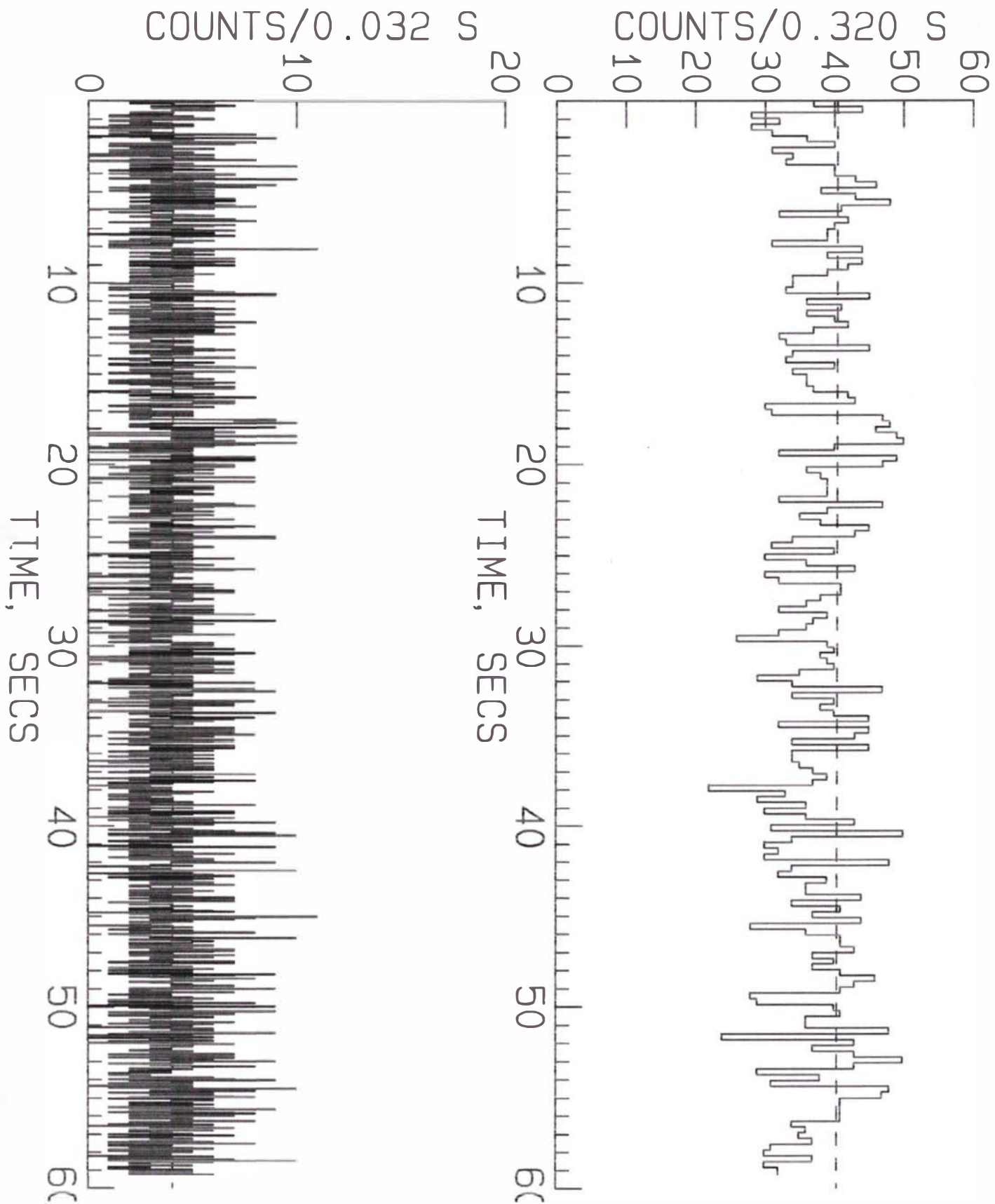


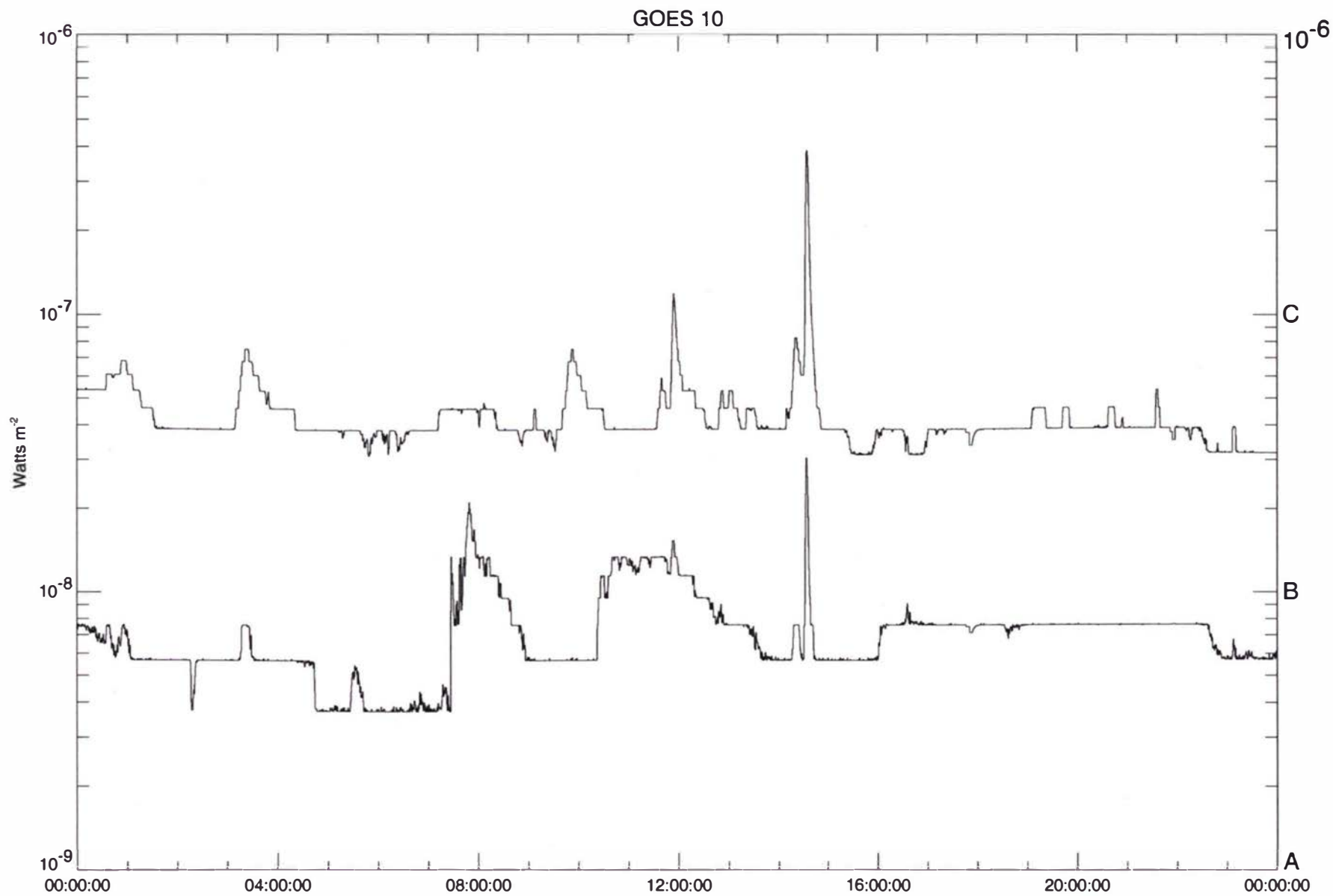
MO GE

01/07/04 83261.591

116- 337 keV

22 / 7 / 8





Data Start: 04/07/01, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/02, 0827

Sample average = 10

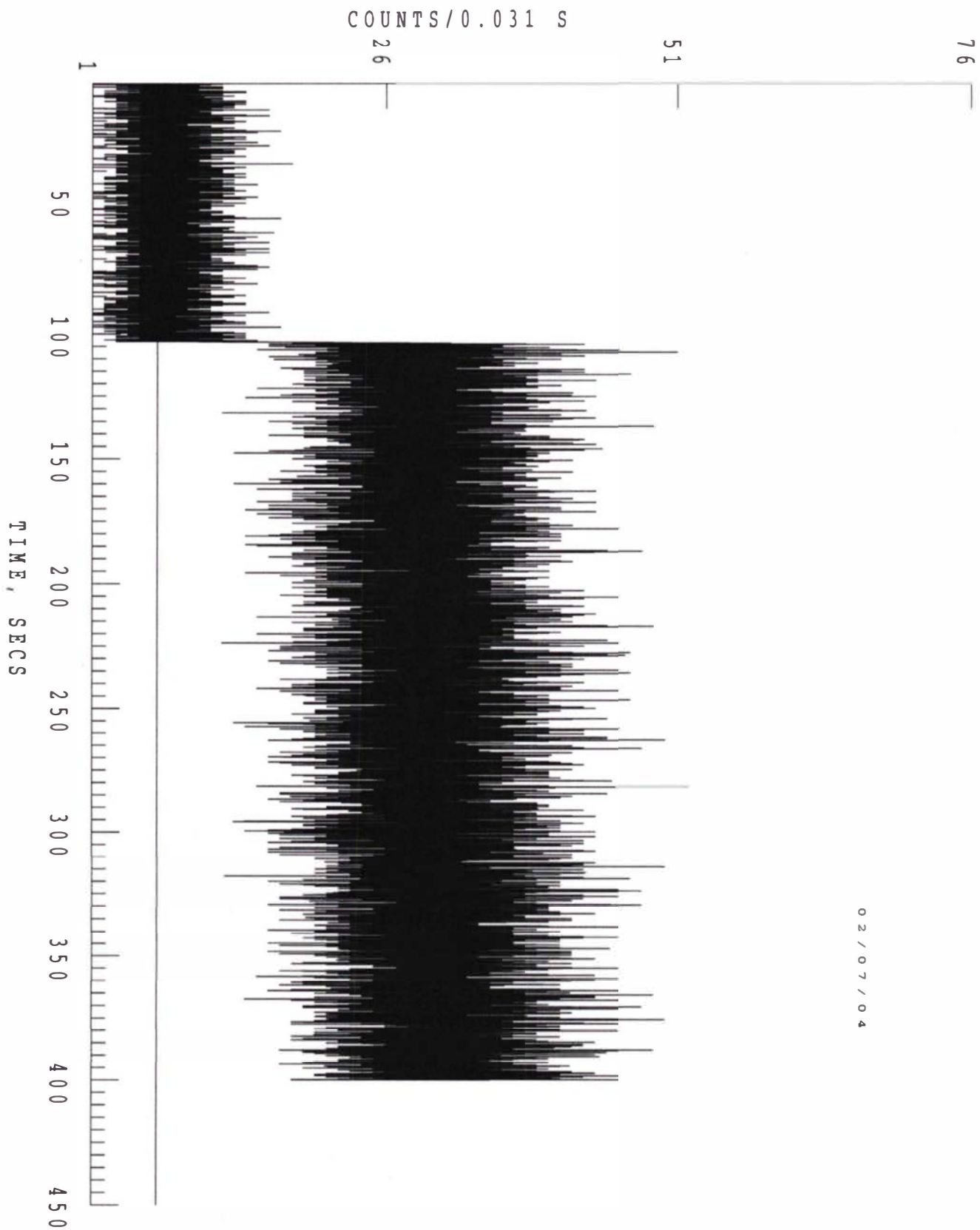
From hops@space.mit.edu Thu Jul 1 21:49:02 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Fri, 2 Jul 2004 04:49:55 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Fri Jul 2 04:49:55 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13188 TJD; 184 DOY; 04/07/02
GRB_TIME: 13567.04 SOD {03:46:07.04} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

HESSI

02/07/04 13367.000 (GHETE_9999_1_20040702_13567)

25- 150 keV



02/07/04

GHETE 9999 1 20040702 13567

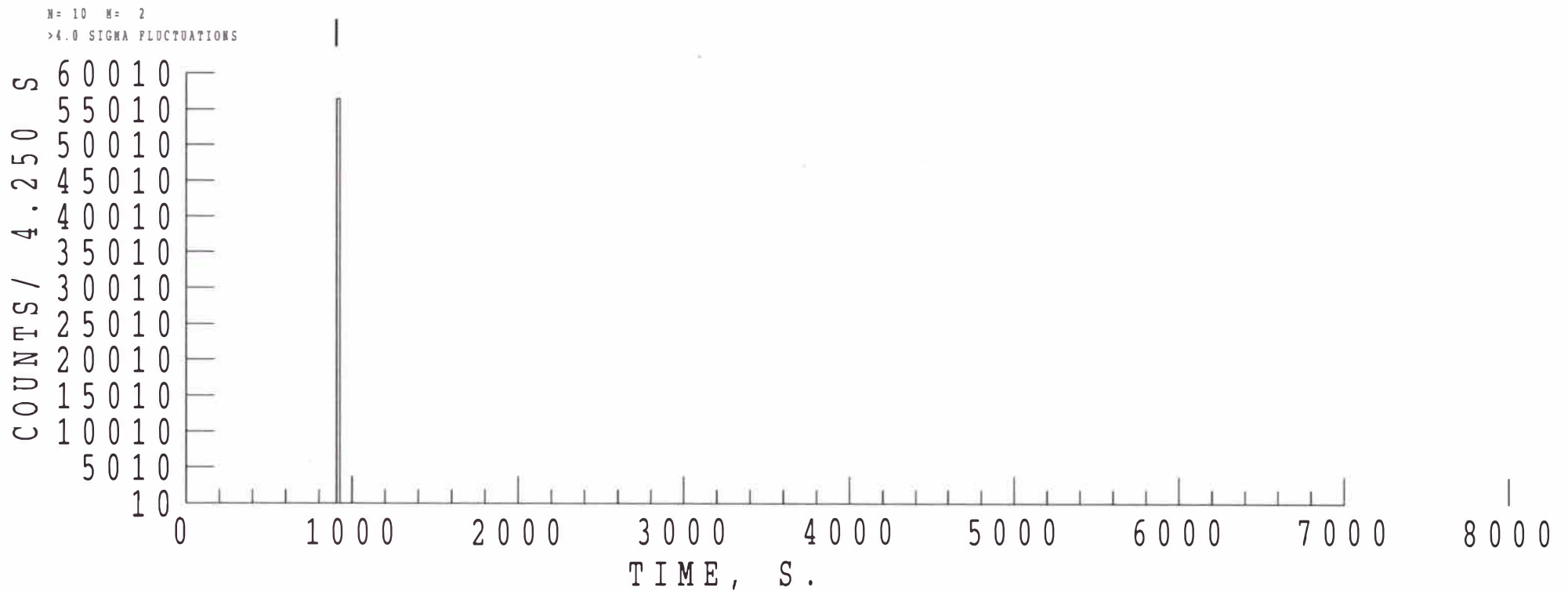
ULYSSES RT

02 / 07 / 04

02 / 07 / 04 10512.215 s

0.250 S INTERVALS REGROUPED BY 17

0 - 0 keV



test 20040702 27930

ULYSSES RT

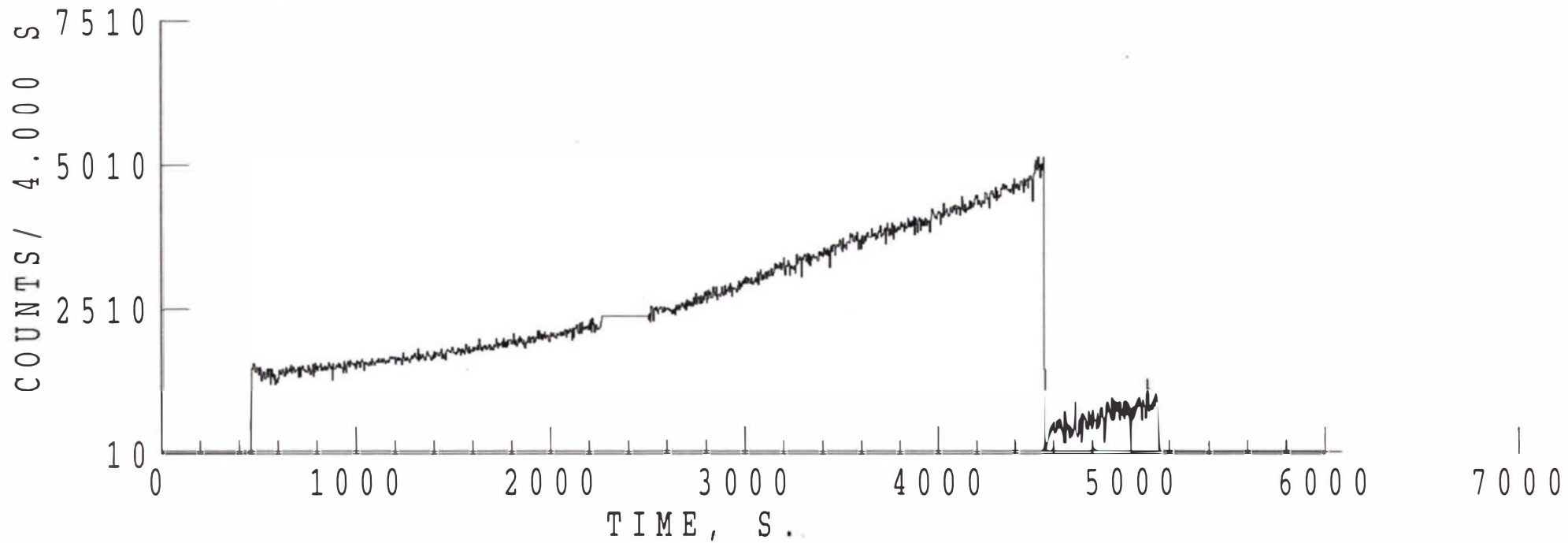
06/07/04

02/07/04 24876.072 s

0.250 S INTERVALS REGROUPED BY 16

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From hops@space.mit.edu Fri Jul 2 03:56:15 2004
Date: Fri, 2 Jul 2004 06:57:11 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: khurley@sunspot.ssl.berkeley.edu
Subject: Trigger Notice to IPN

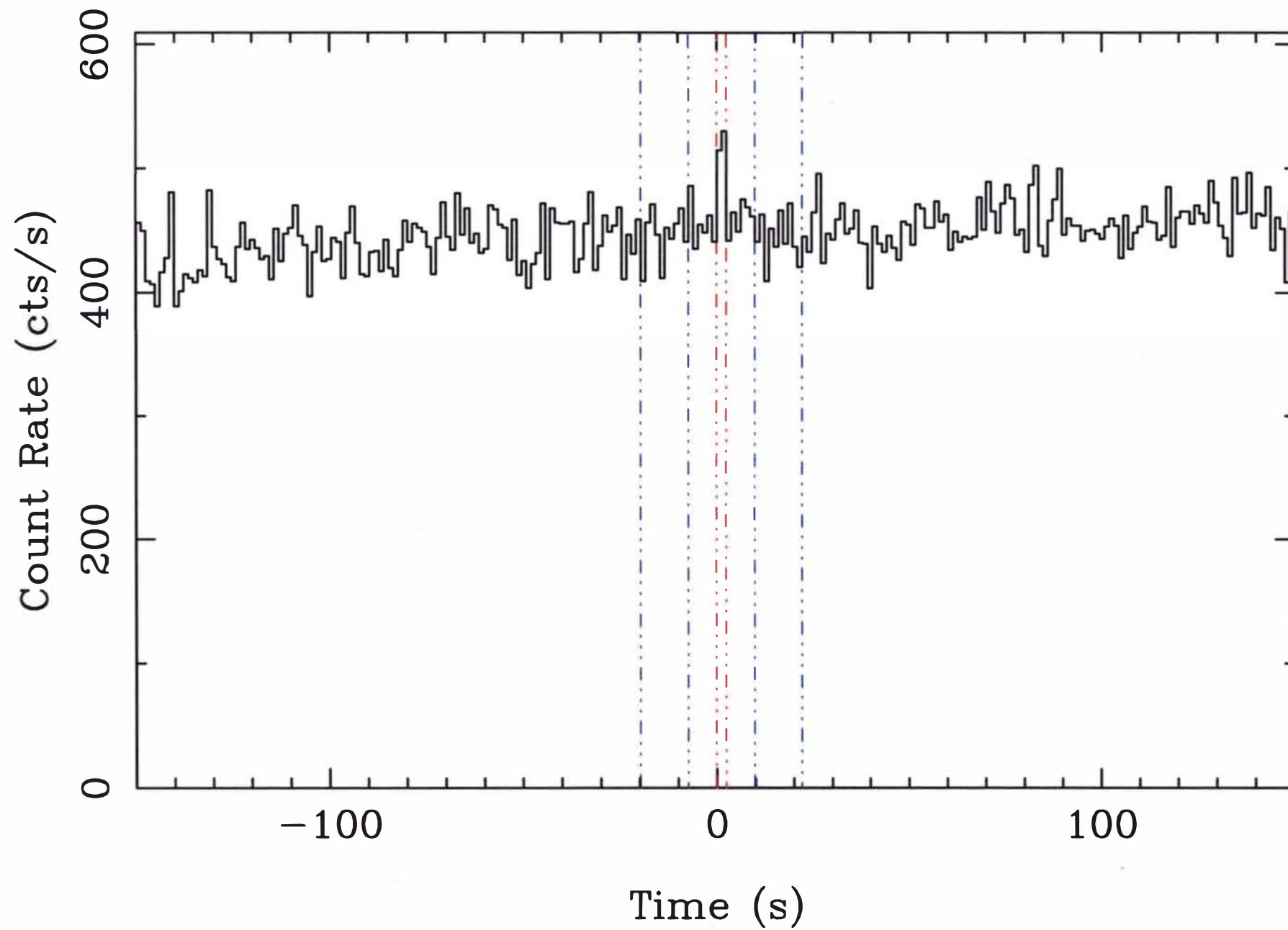
TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Fri Jul 2 10:55:51 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13188 TJD; 184 DOY; 04/07/02
GRB_TIME: 34786.78 SOD {09:39:46.78} UT
TRIGGER_SOURCE: Carlo's trigger robot
GAMMA_RATE: Not computed, sorry
SC_Z_RA: No idea, 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

From hops@space.mit.edu Fri Jul 2 04:03:51 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Fri, 2 Jul 2004 11:04:45 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www . canit . ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Fri Jul 2 11:04:44 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13188 TJD; 184 DOY; 04/07/02
GRB_TIME: 34788.66 SOD {09:39:48.66} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

FREGATE Band C, 1.2s Resolution Data

Time Since UTC = 20040702_093946.783271



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20040702_34786)

BEG TIME: 02/07/04 DOY 184 Julian 2453189.90042 UT = 09.610 09:36:36 (34596.000 secs) [sct = 0019 9bdf 50ef 685b]
 END TIME: 02/07/04 DOY 184 Julian 2453189.90500 UT = 09.720 09:43:12 (34992.000 secs) [sct = 0019 9bdf 6889 e4ad]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=19 E6=510]

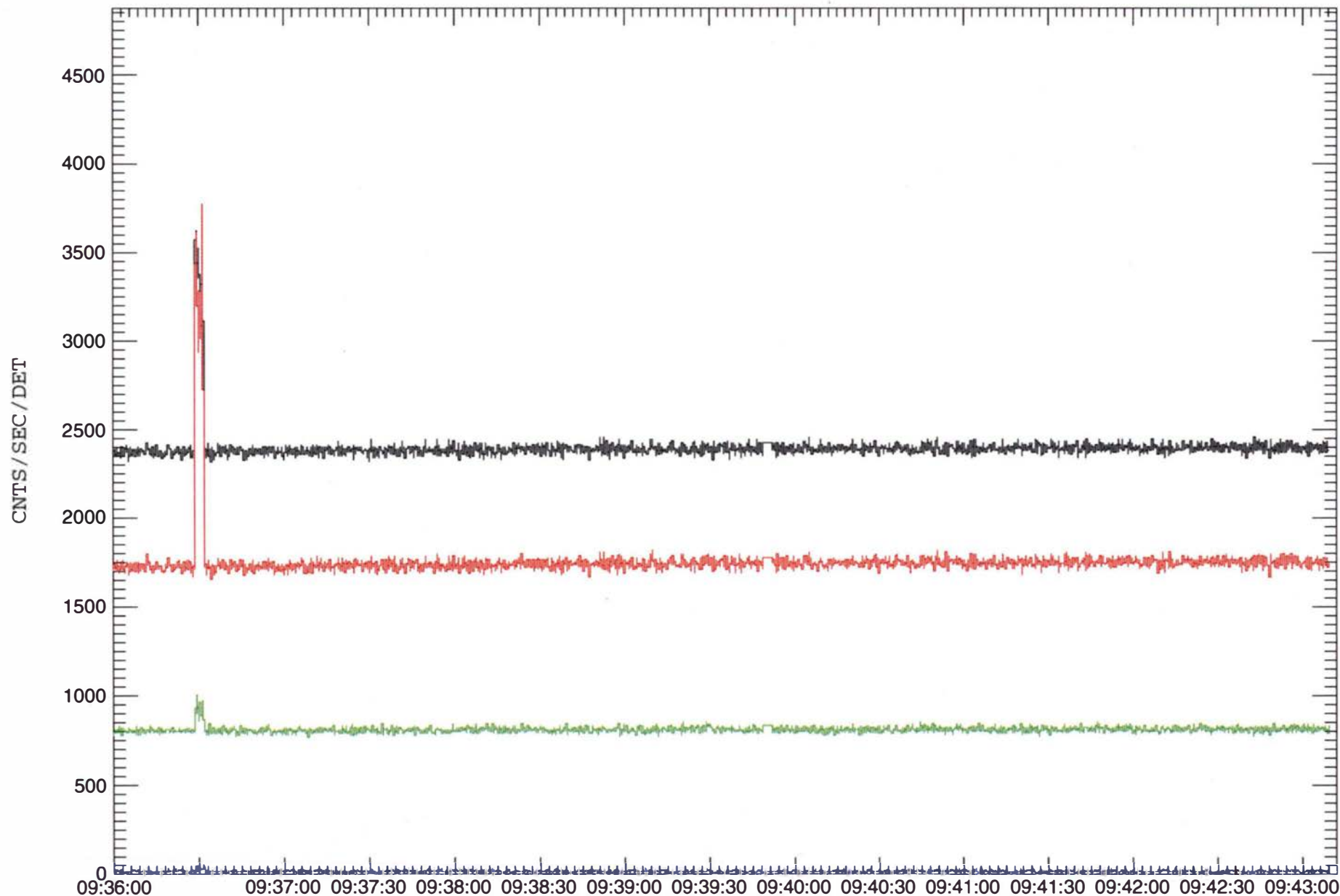
Chan 4:[E6=510 ->]

Channel 1 + 2100

Channel 2 + 1400

Channel 3 + 700

Channel 4 + 0



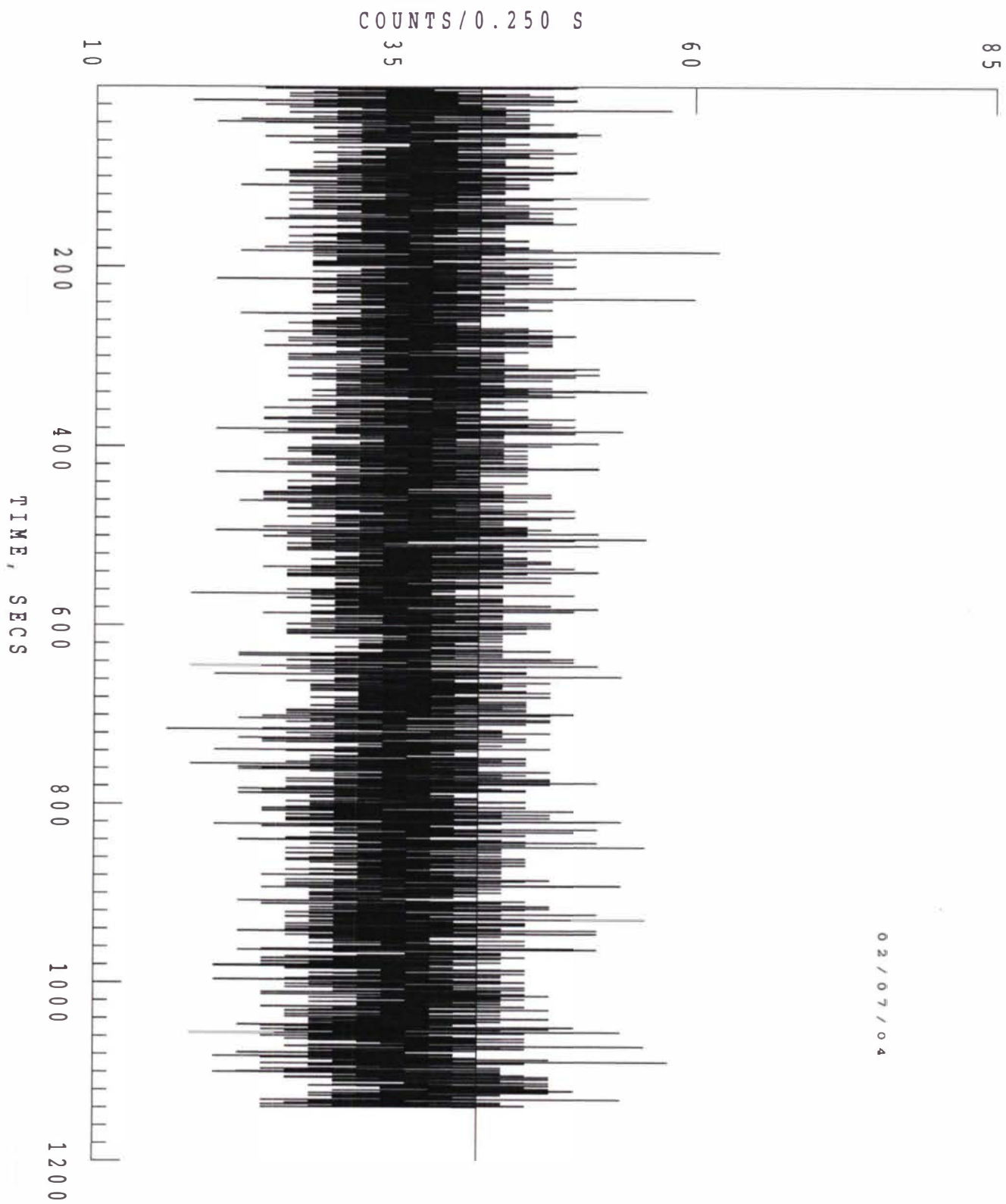
RS UT

MS01

02/07/04

33421.377

50 - 3000 keV



From williams@sunspot.ssl.berkeley.edu Fri Jul 2 07:28:38 2004
Date: Fri, 2 Jul 2004 07:32:22 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_GHETE_9999_1_20040702_34786

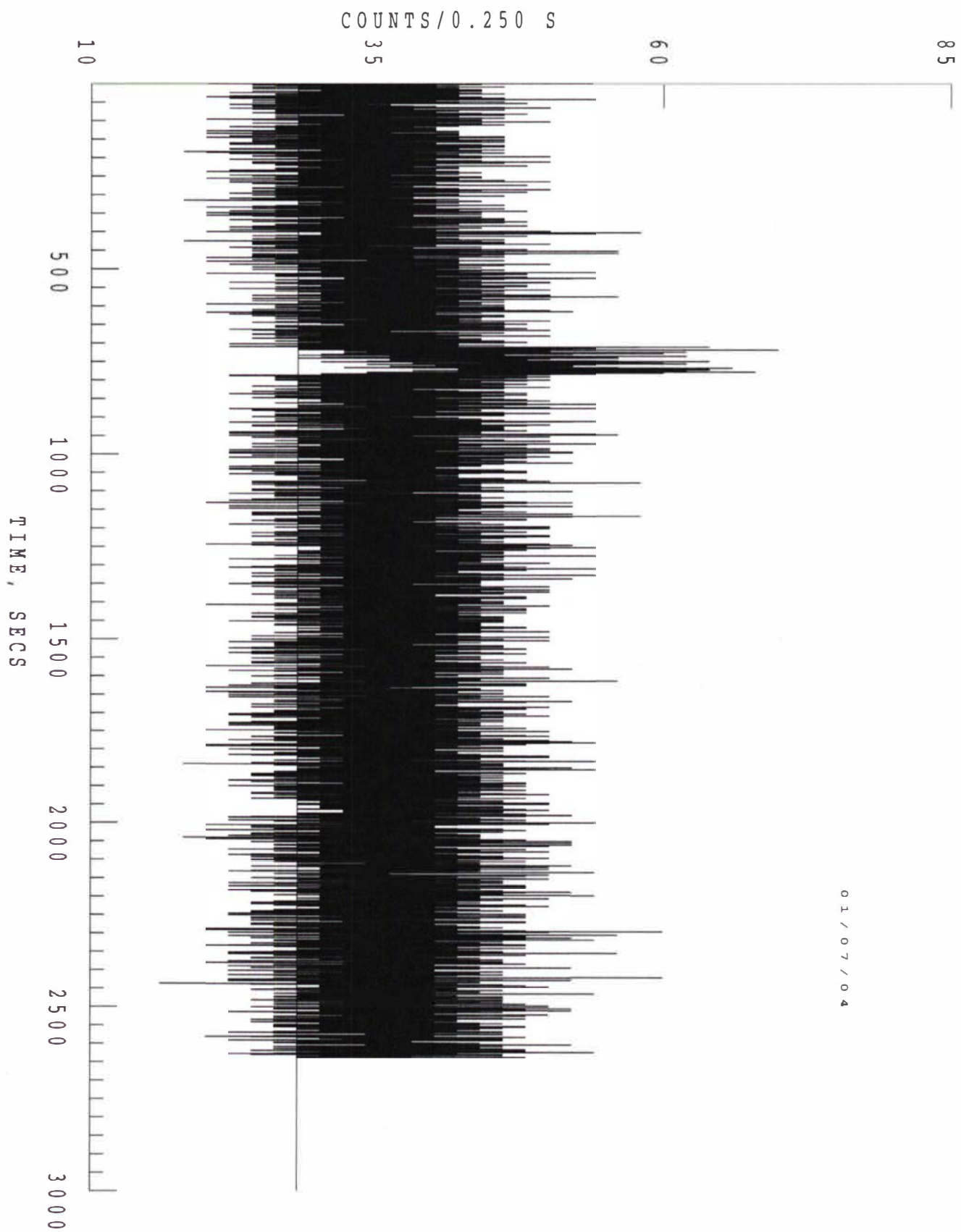
HESSI 25 to 150 keV Counts
Created 2-Jul-2004 07:28:17.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0312500
Full time range in SAA
Full time range in eclipse
No non-SAA data gap
No Data Available For This Time Range
Do Not Retry

MS01

01/07/04

46682.474

50 - 3000 keV



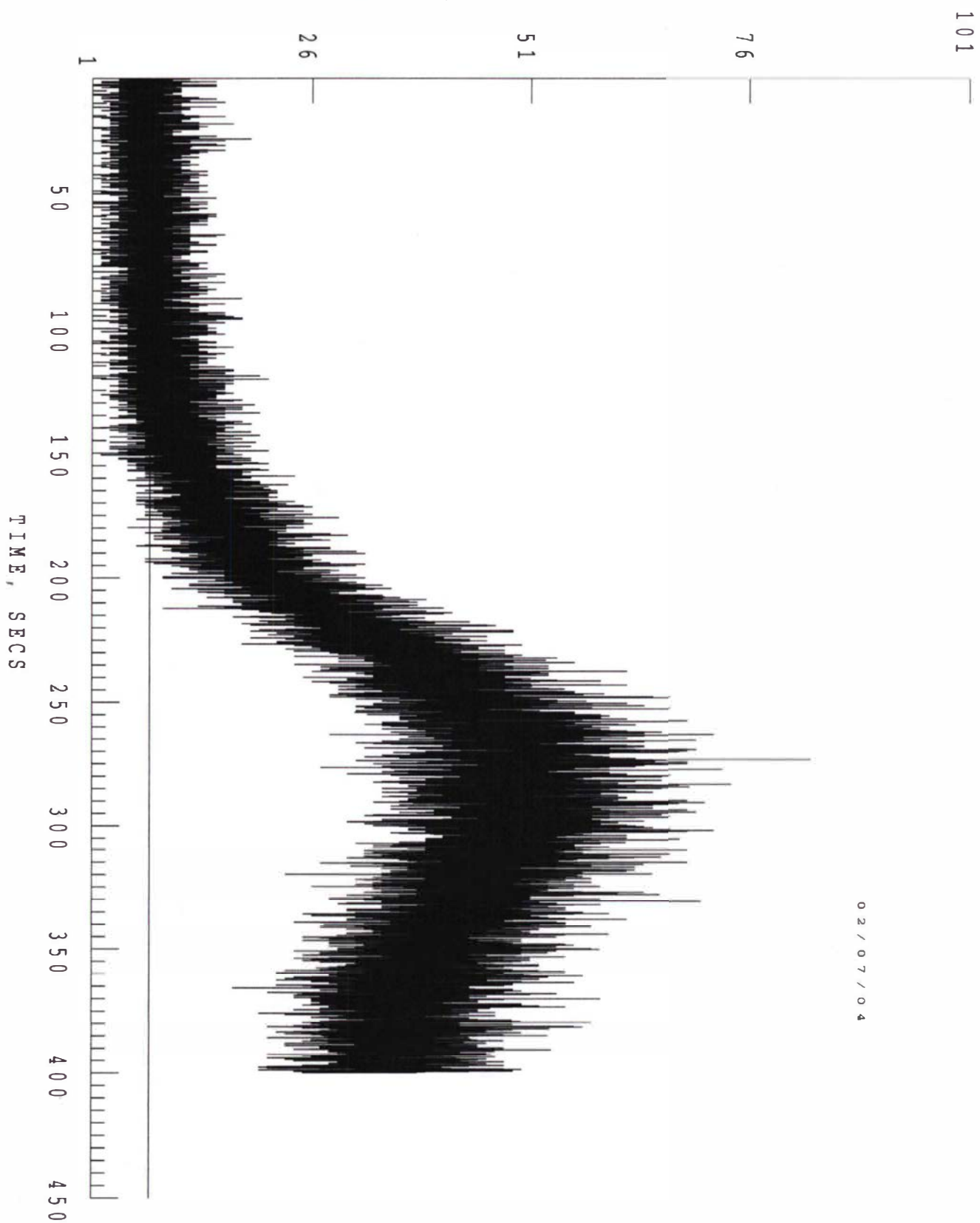
01/07/04

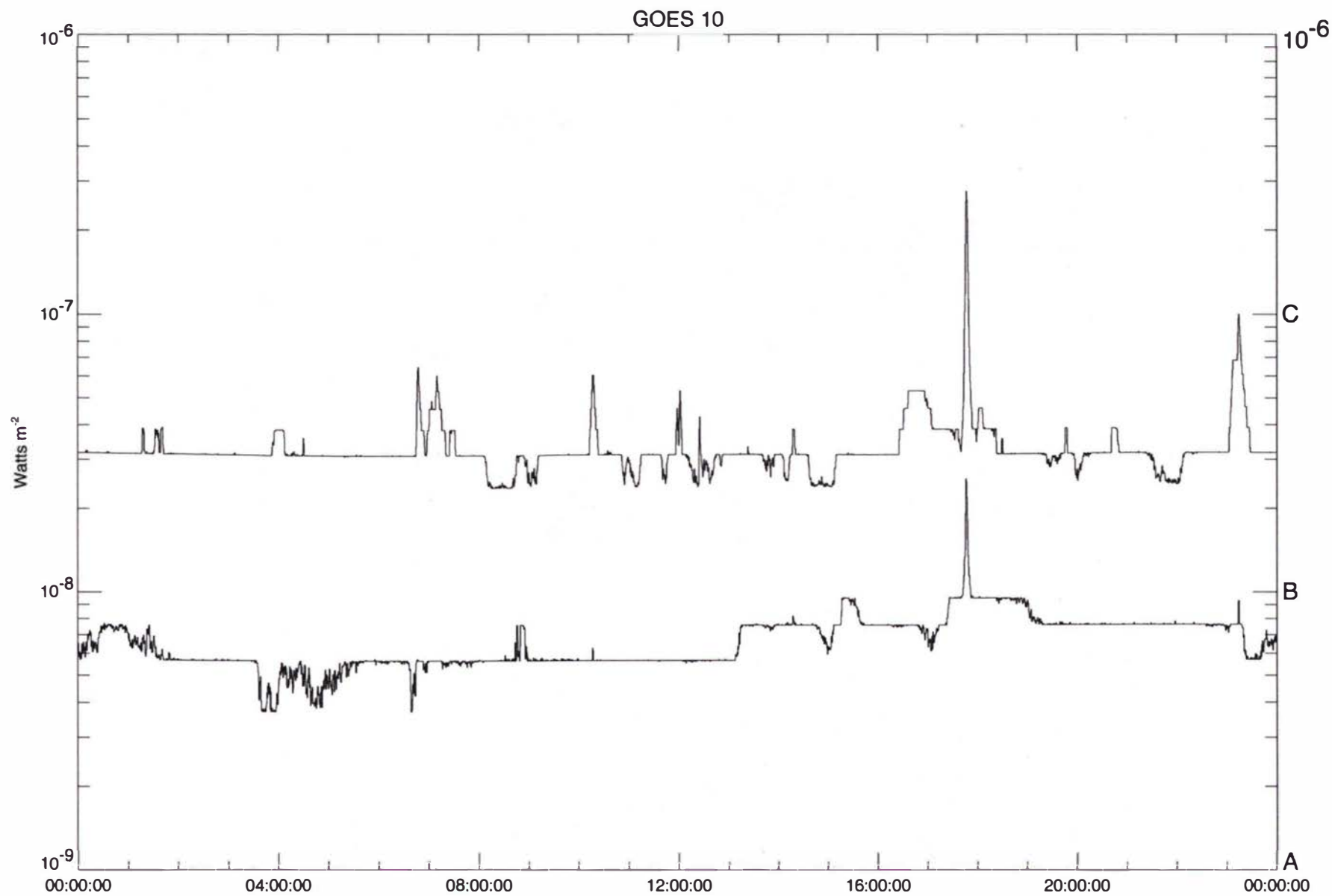
HESSI

01/07/04 47816.000 (GHETE_9999_1_20040701_48016)

25 - 150 keV

COUNTS/0.031 S





Data Start: 04/07/02, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

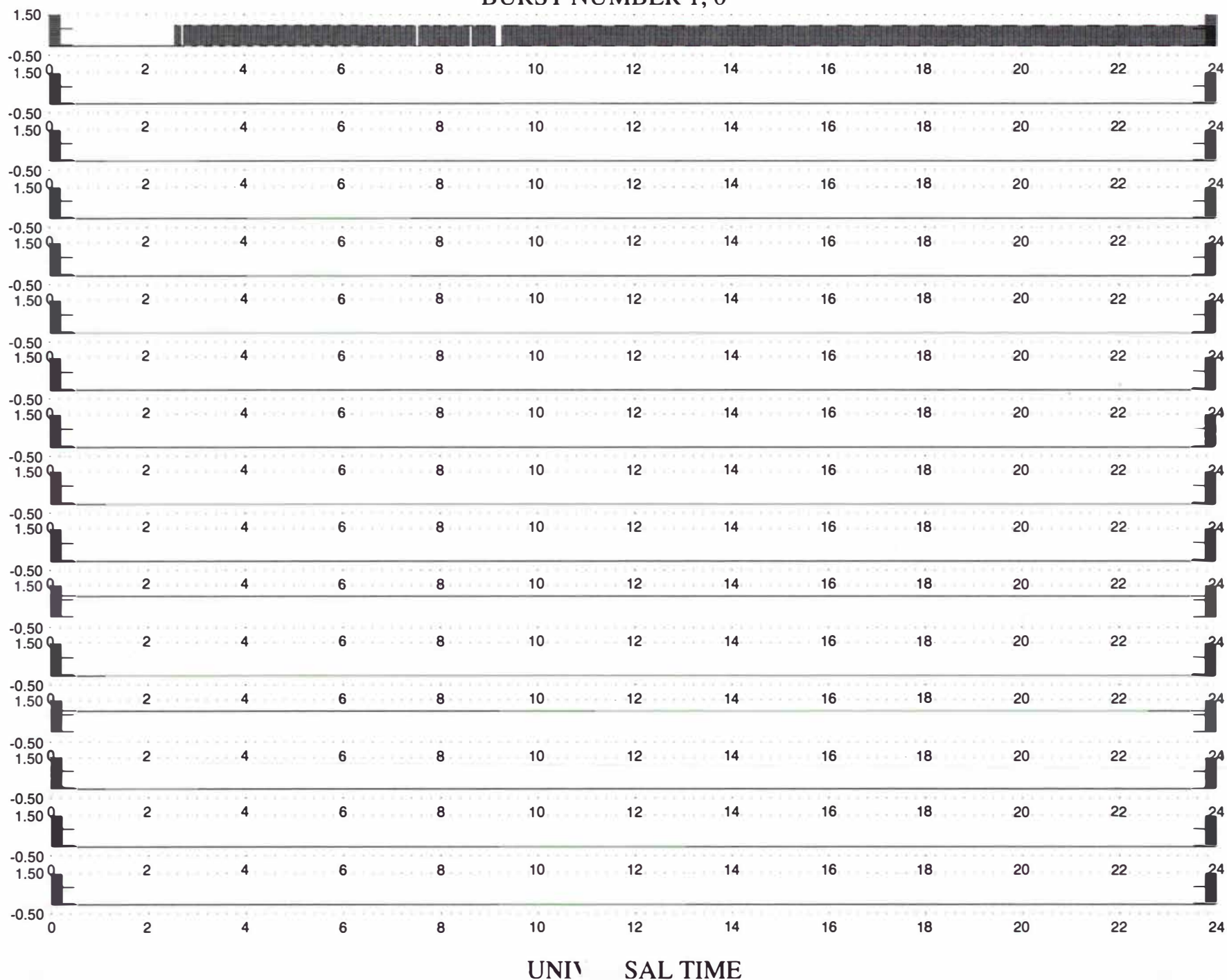
2 (0.5 - 4.0 Angstroms)

Background not subtracted

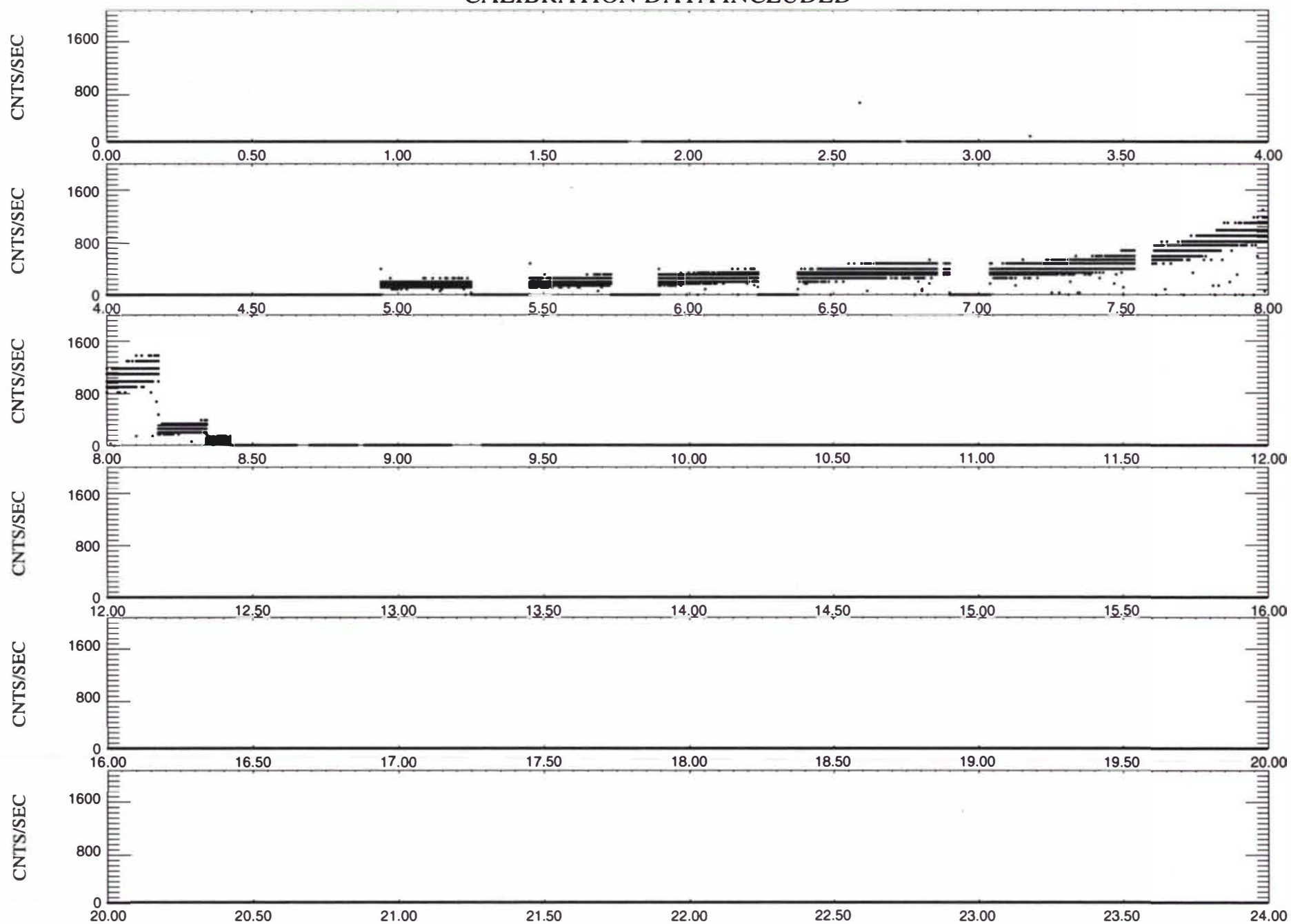
Plot created: 04/07/03, 0827

Sample average = 10

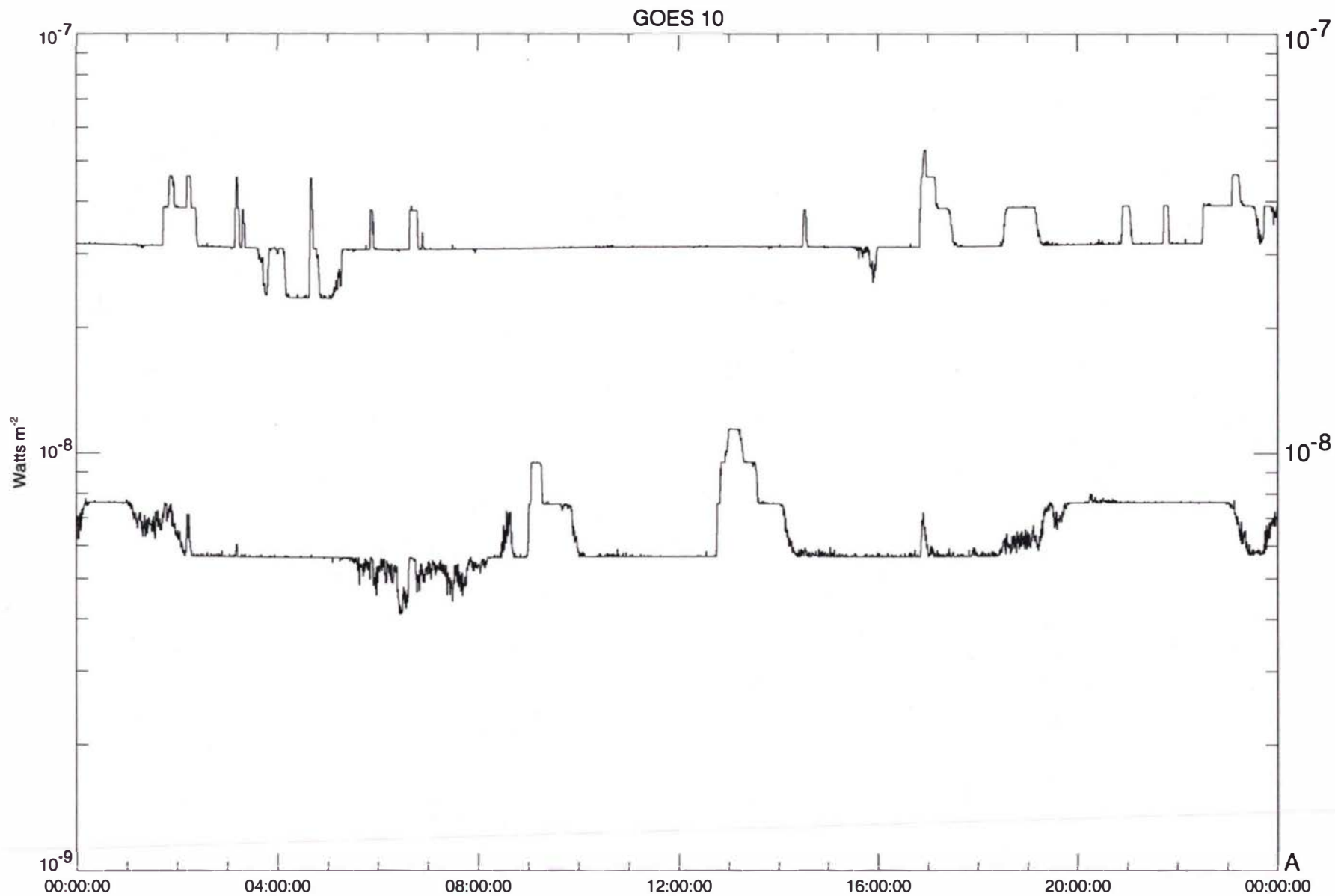
CBU	CCL	DMP	ROM	DMA	OSC	MP.	ICR	SPE	OPM	RSC	CAL	WCH	MEM	BRS	HUS
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



CALIBRATION DATA INCLUDED



UNIV `SAL TIME



Data Start: 04/07/03, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

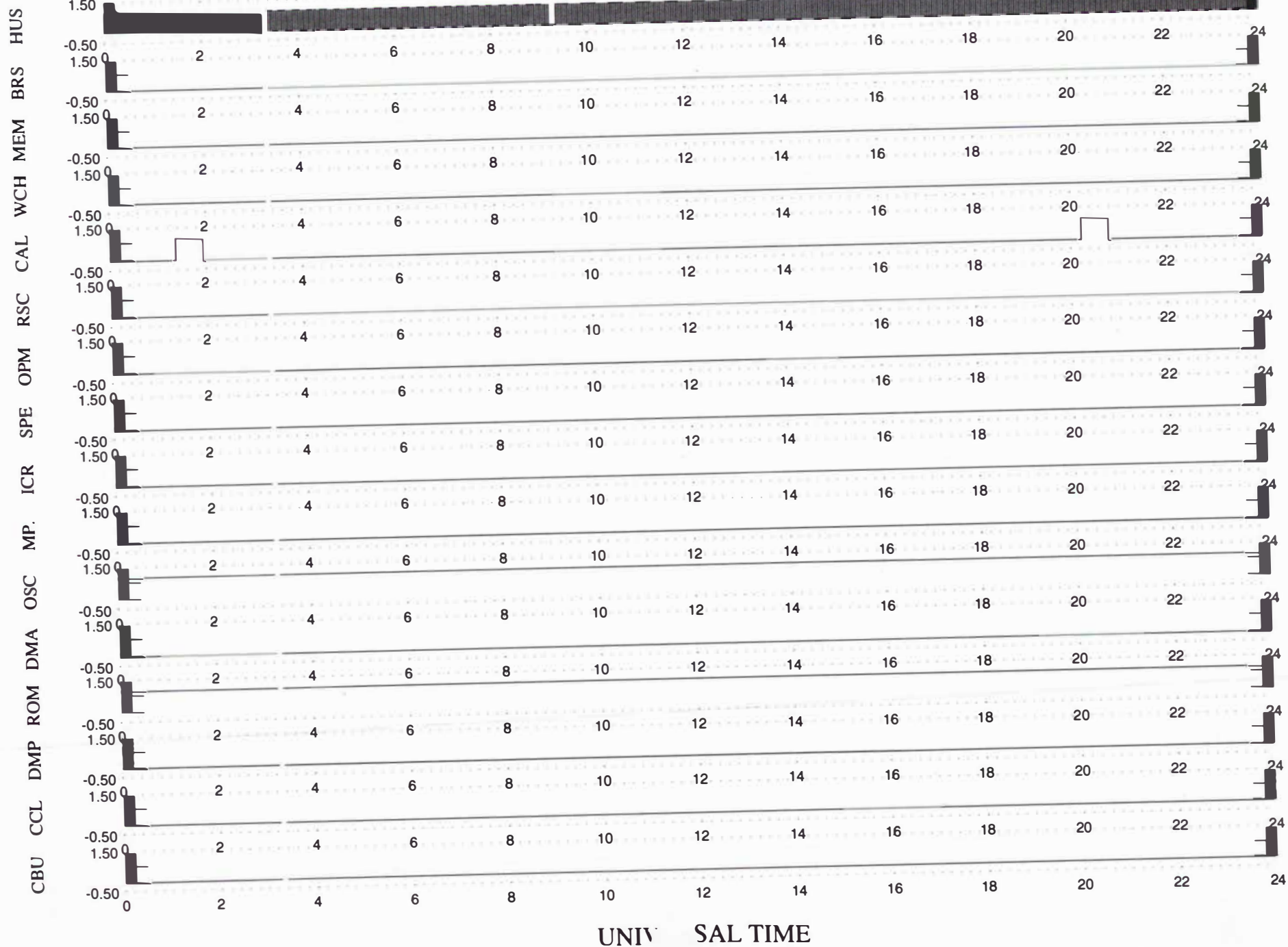
2 (0.5 - 4.0 Angstroms)

Background not subtracted

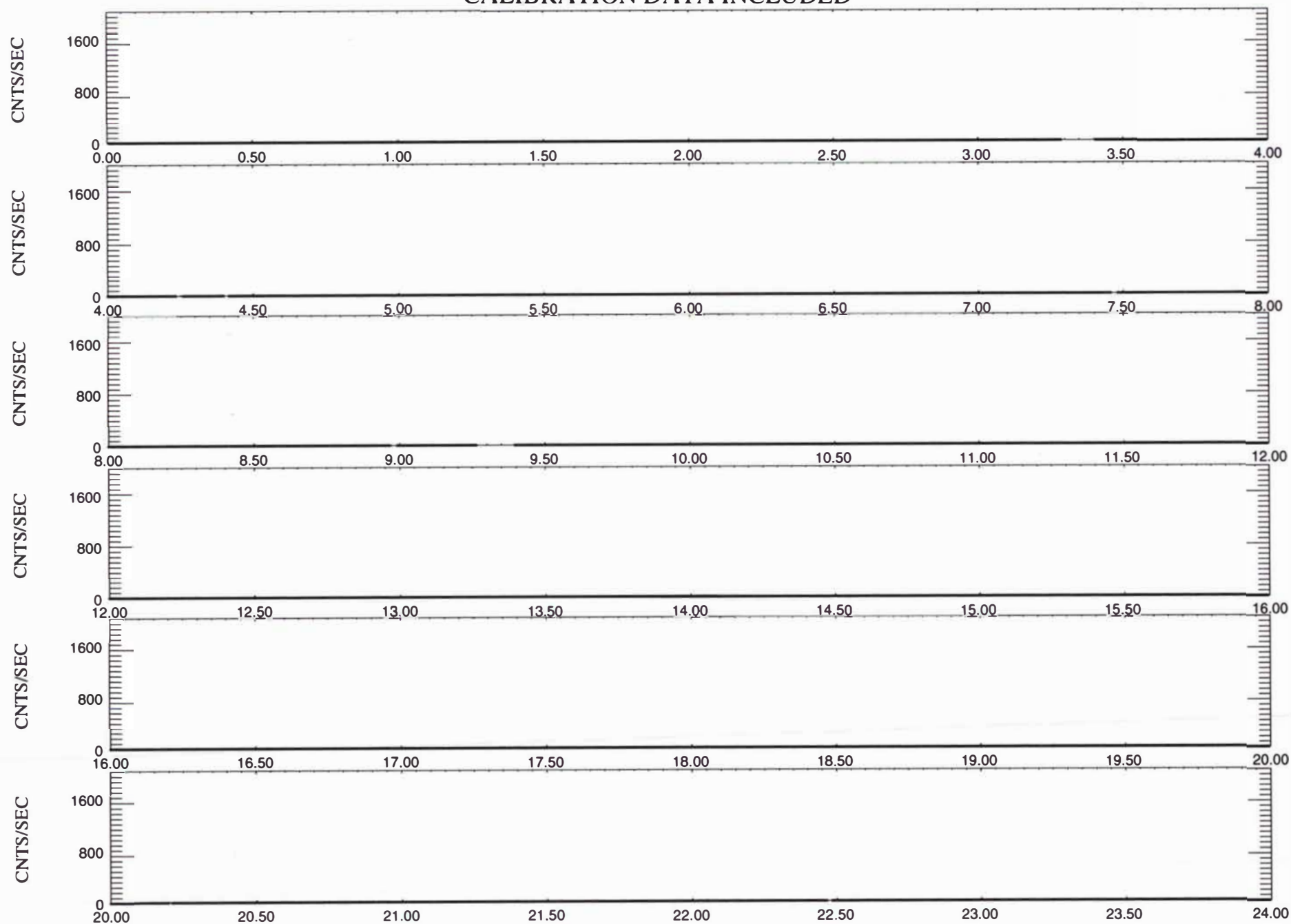
Plot created: 04/07/04, 0827

Sample average = 10

NO BURST (0)



CALIBRATION DATA INCLUDED



UNIV `SAL TIME

Date: Aug 5 2004

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; when there is no data in the database, the ephemeris is for the time requested.)
- ☐ Was Mars-blocking used?

2. For 3 Spacecraft events

- ☐ $\Sigma 3\Delta t$'s calculated?

3. For INTEGRAL events

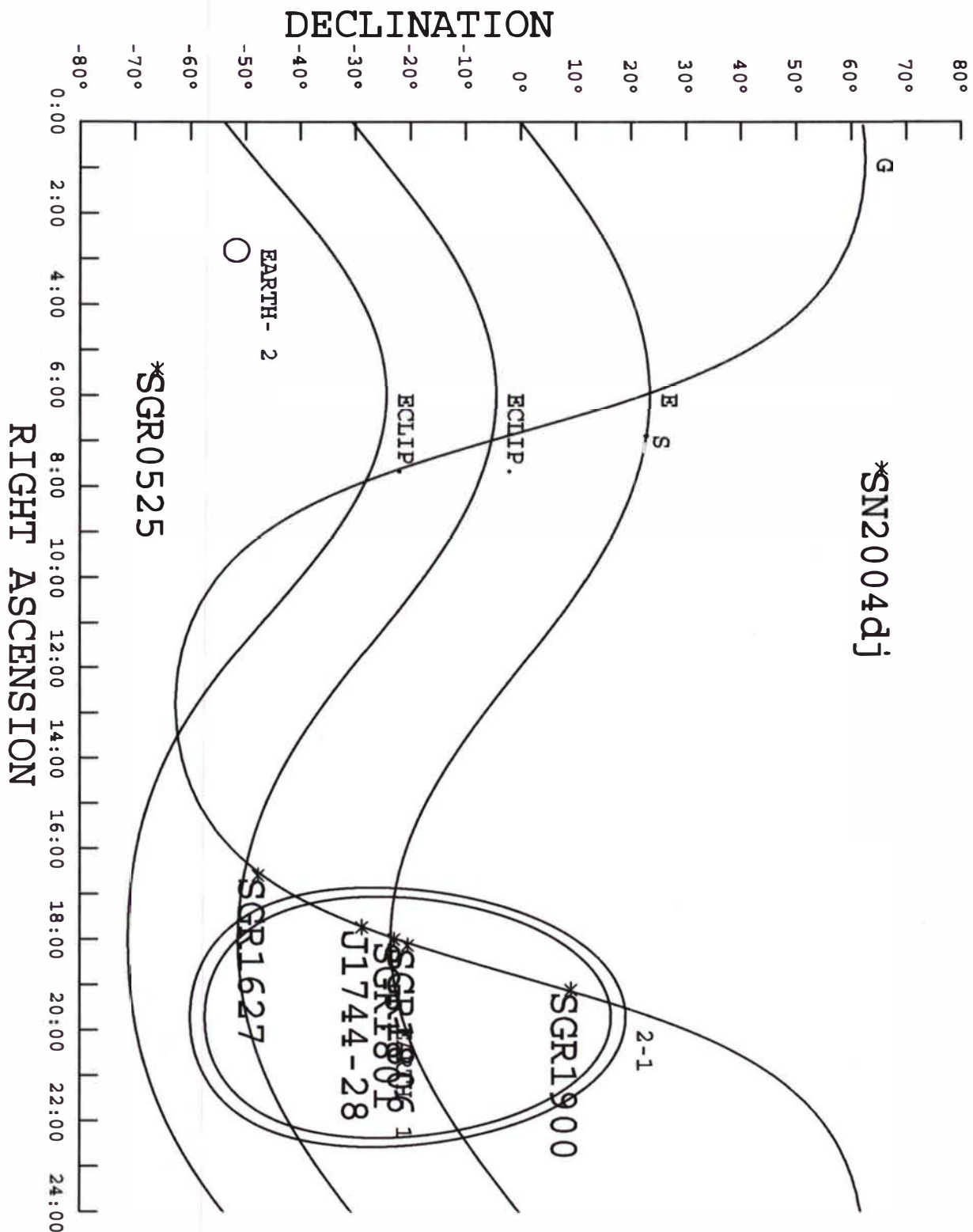
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT? *N/A*
- ☐ Updated ephemeris used for bursts prior to September 30, 2003? *N/A*

-
- ☒ ACCESS database 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 KONUS1 2 INTEGRAL

EVENT OF JUL 4, 2004 0:49

5 / 8 / 4



KONUS1

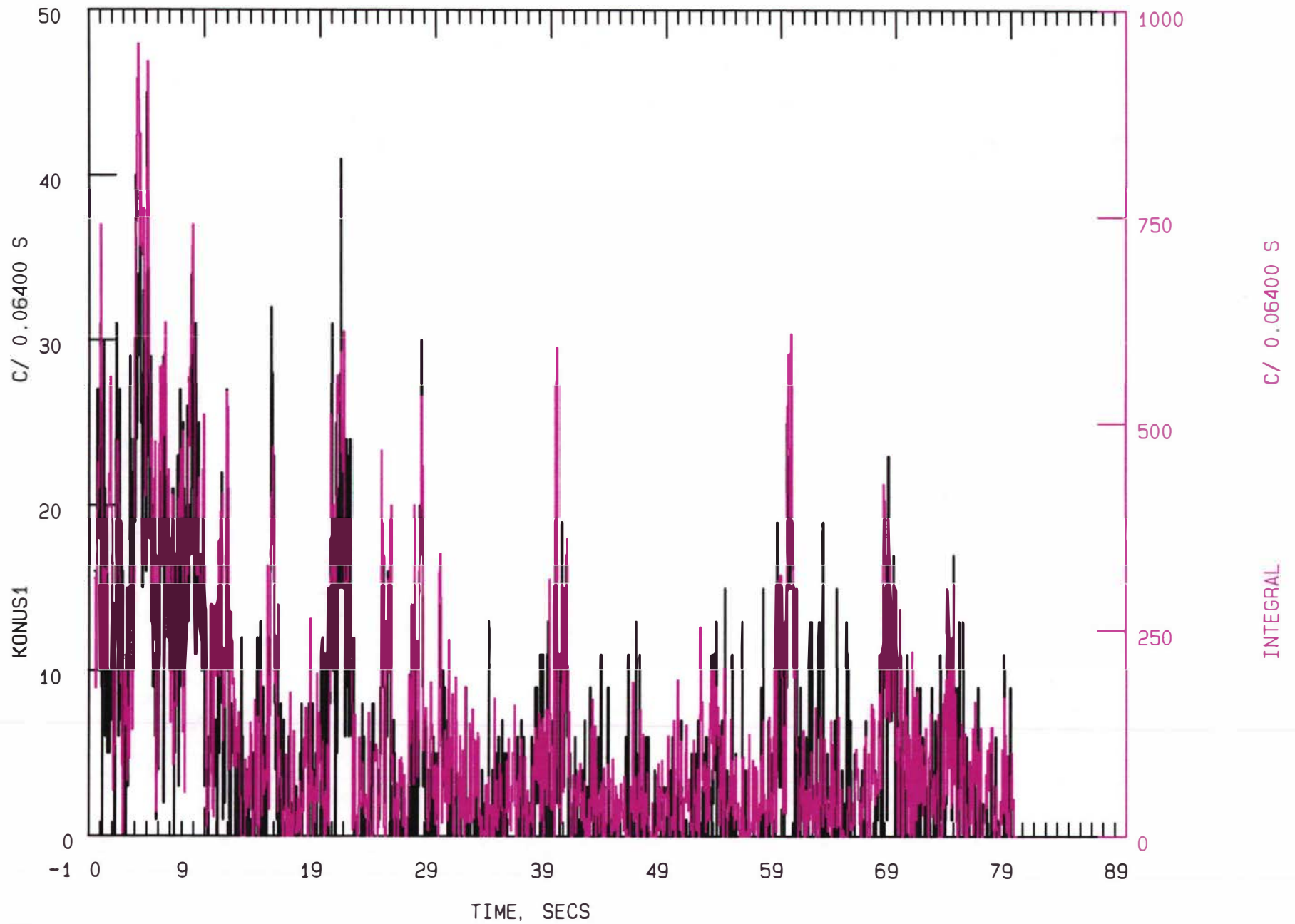
-INTEGRAL

CORRELATION

04/07/04

2949.682

5/ 8/ 4



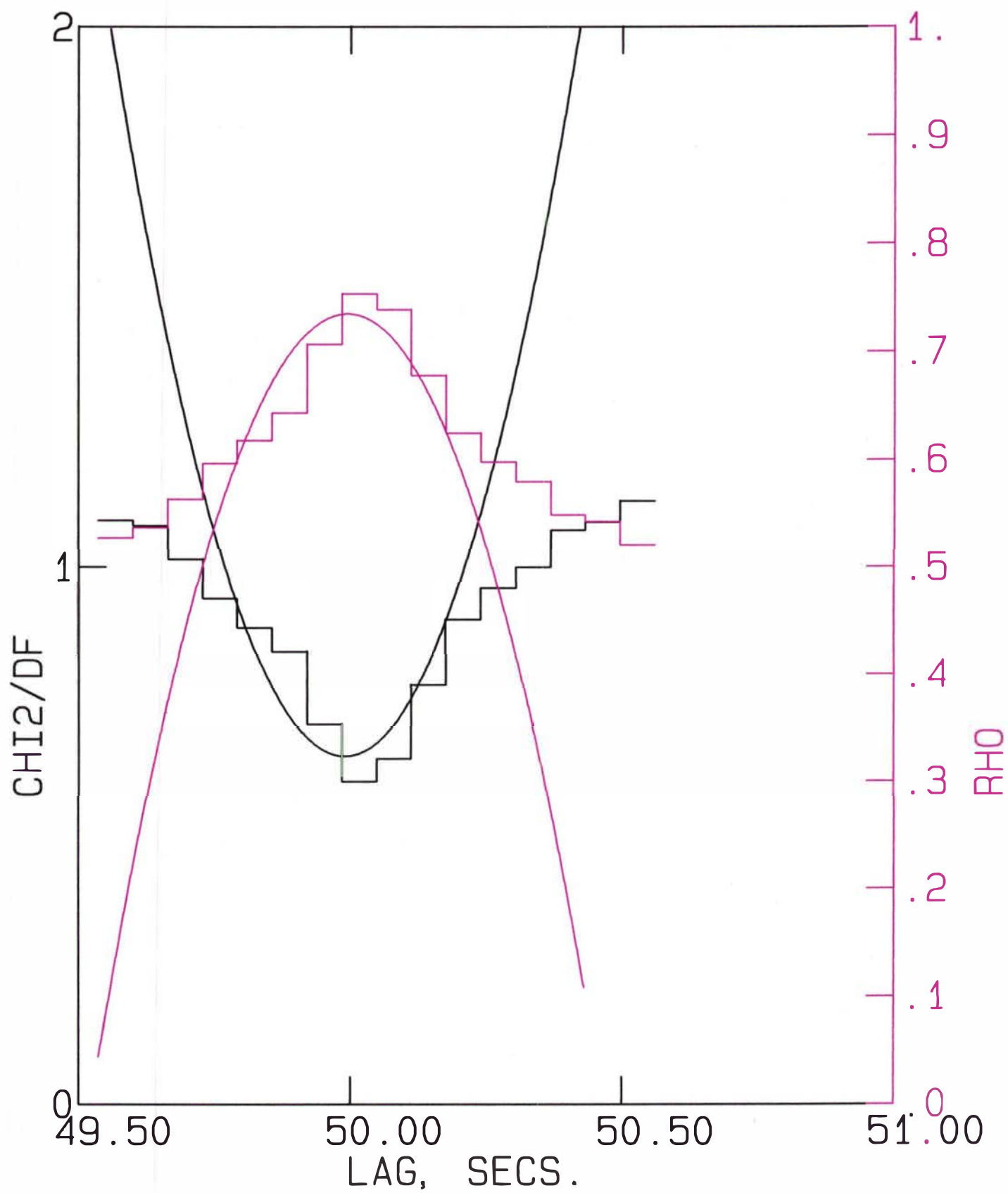
KONUS1

-INTEGRAL

CORRELATION

04/07/04

2949.682

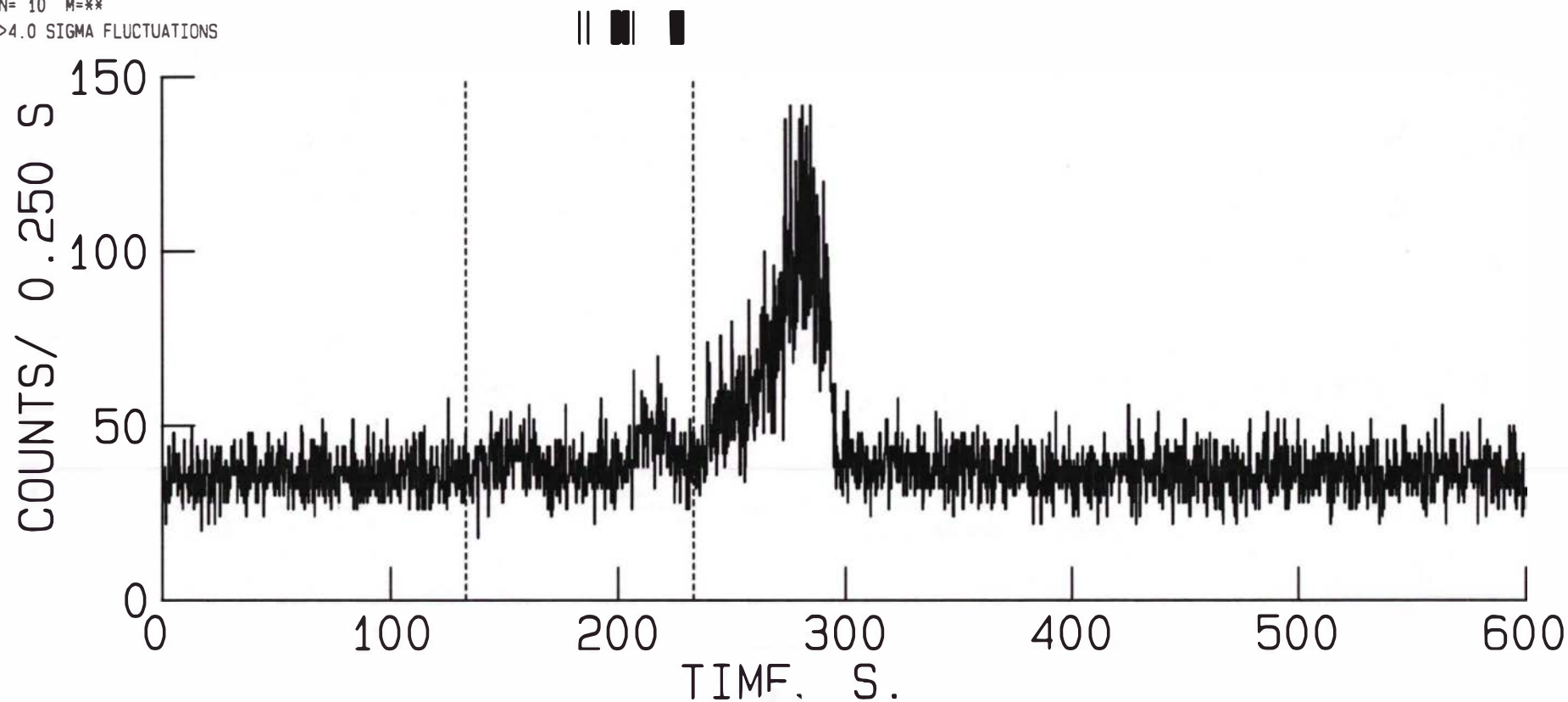


MS01 HEND
04/07/04 1379.735 s
50-3000 keV

05/08/04

Not The GRB

N= 10 M=**
>4.0 SIGMA FLUCTUATIONS

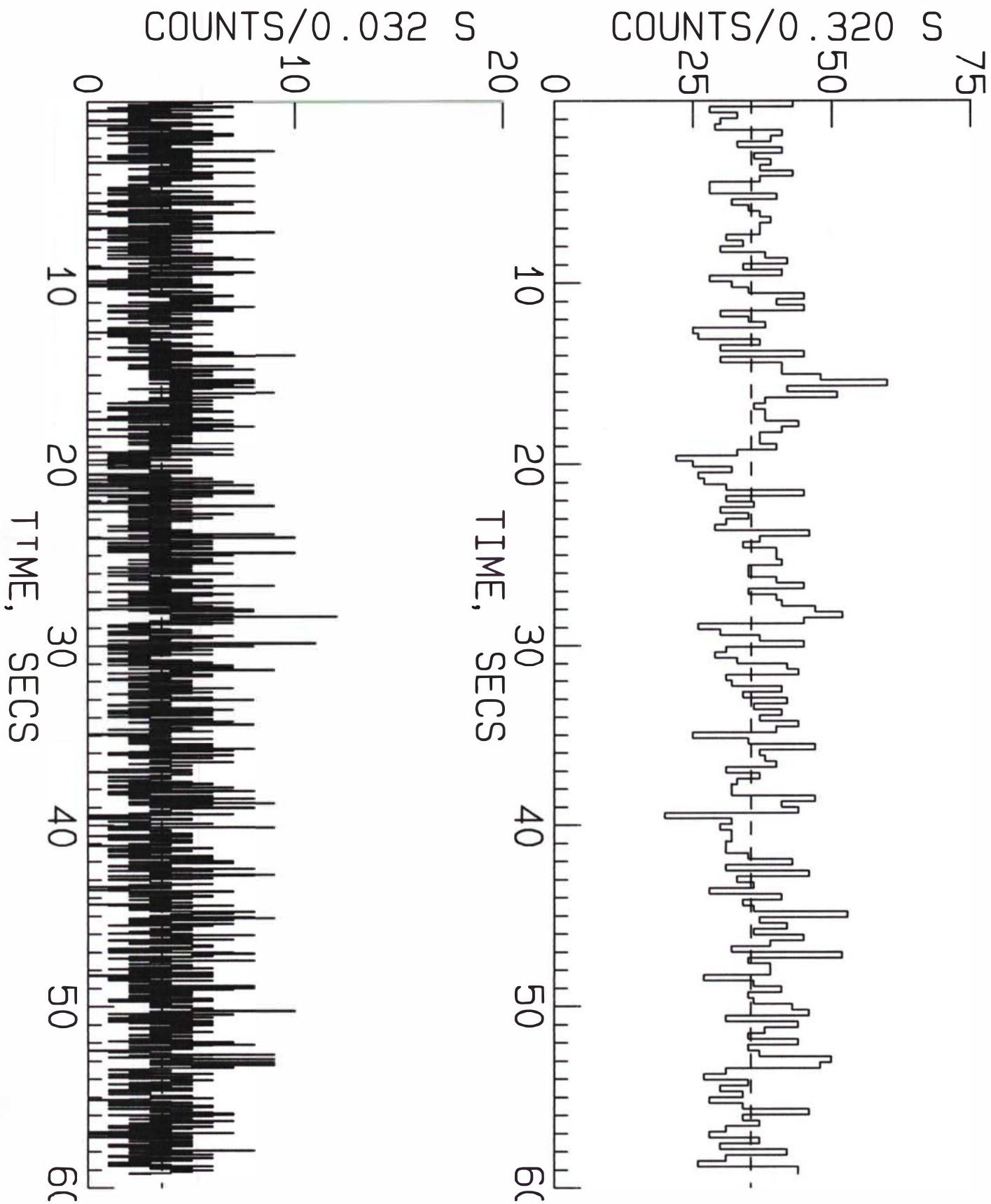


MO GE

04/07/04 2176.315

116- 337 keV

22 / 7 / 8



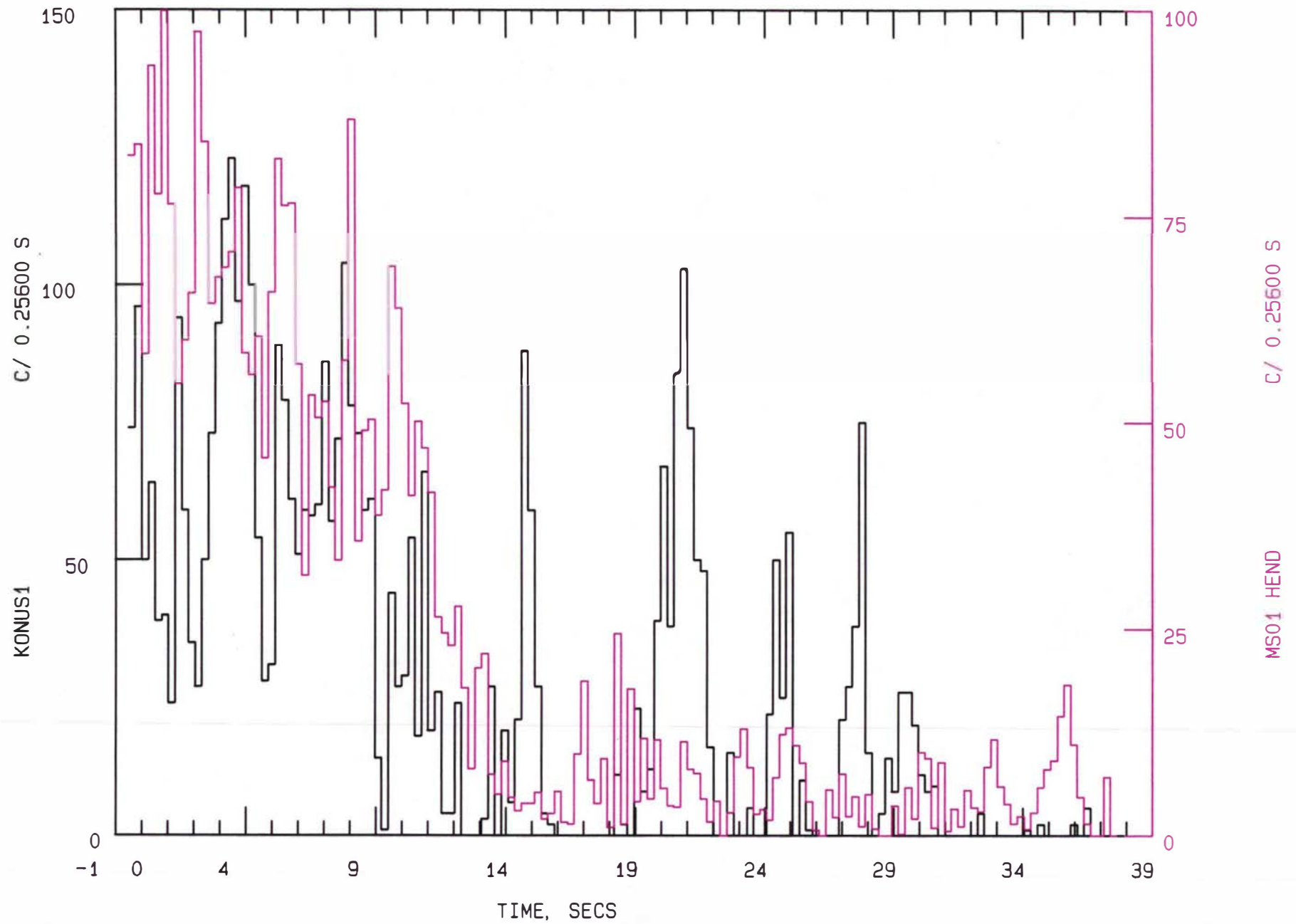
KONUS1

-MS01 HEND CORRELATION

04/07/04

2949.682

5/ 8/ 4

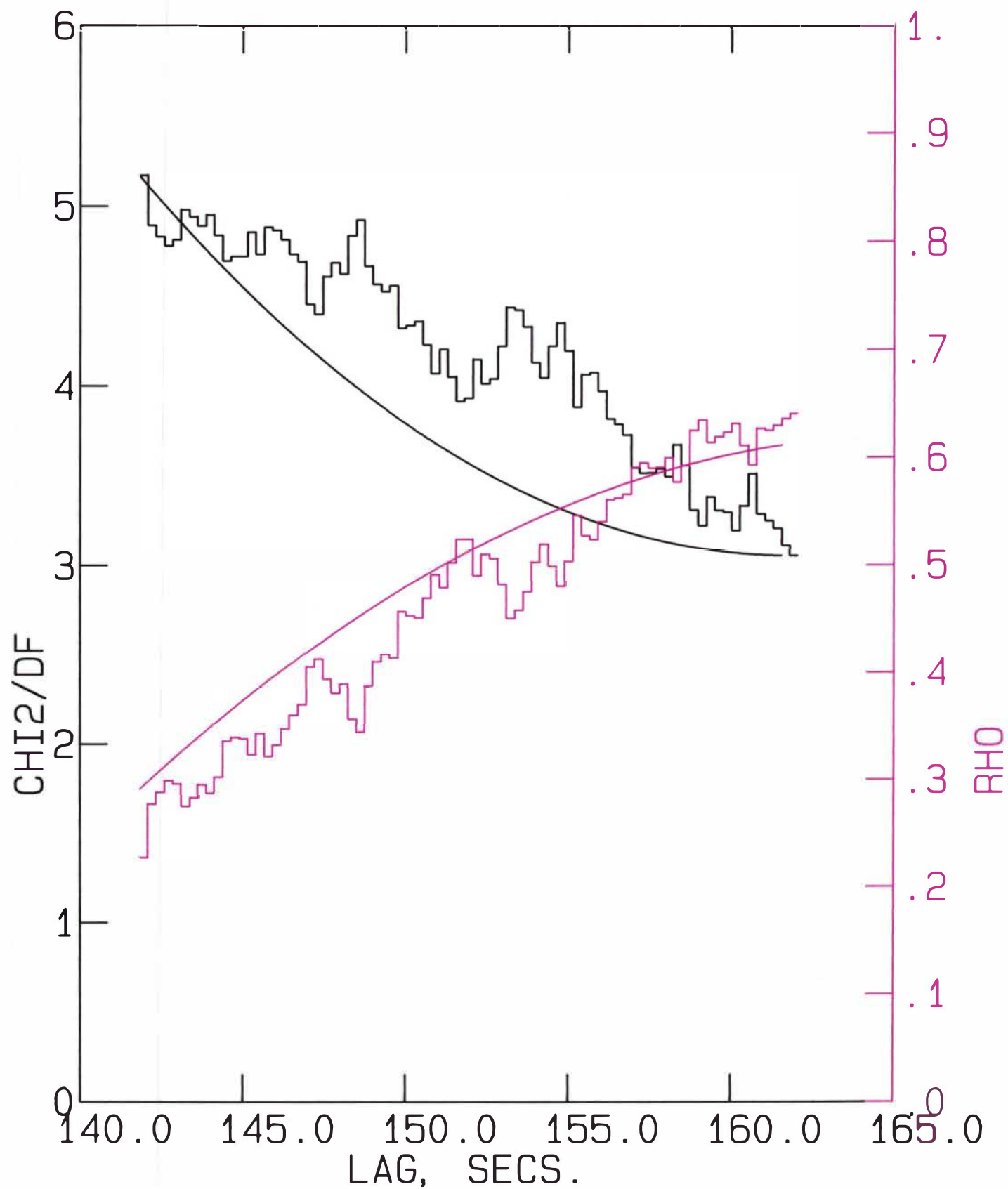


KONUS1

-MS01 HEND CORRELATION

04/07/04

2949.682



KONUS1

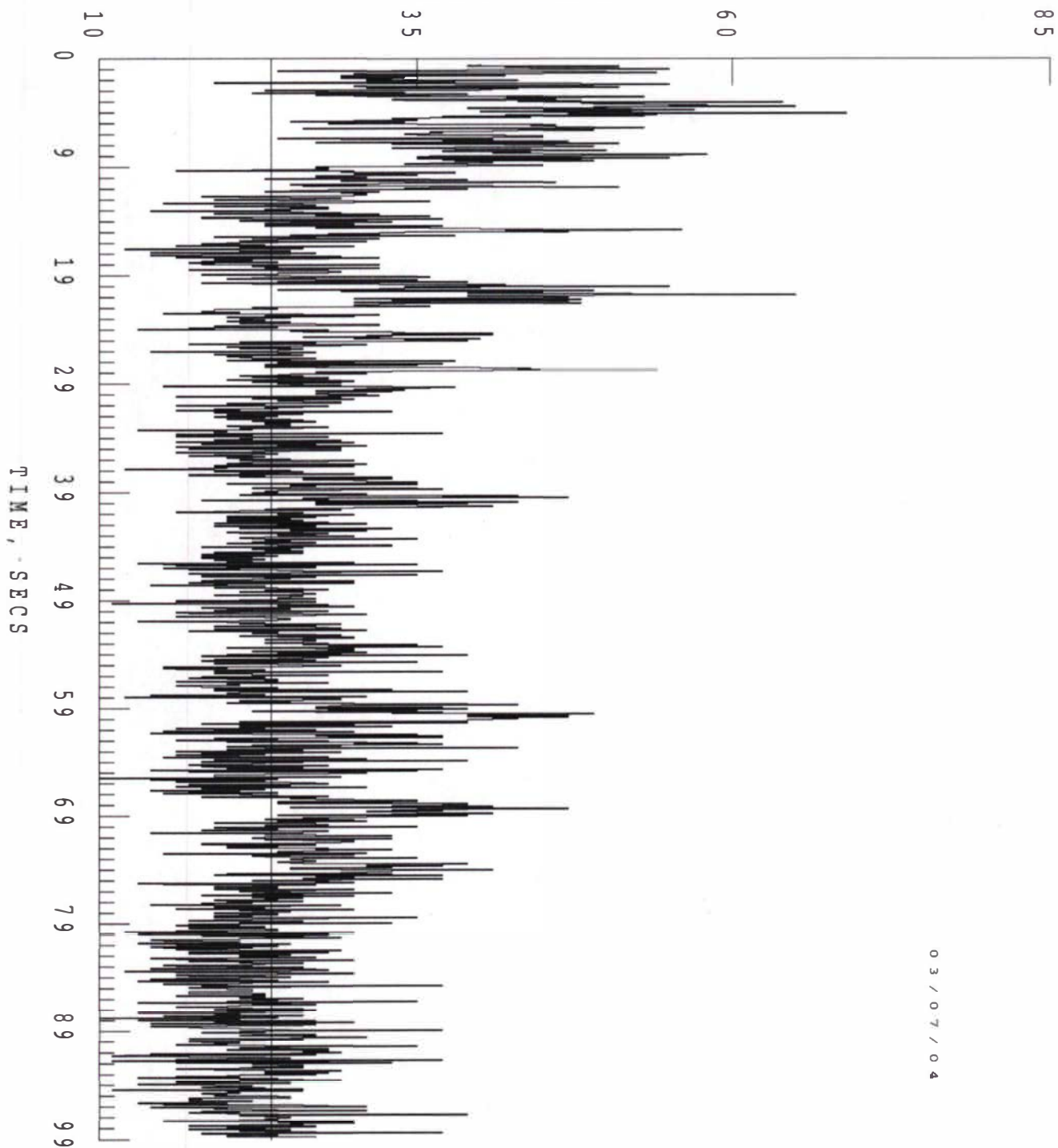
04/07/04

2949.682

50 - 200 keV

00:49:09

COUNTS/0.064 S



03/07/04

KONUS HRES 20040704 02949

TRIGGER TIME: 04/07/04 DOY 186 Julian 2453191.53413 UT = 00.819 00:49:09 (02949.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

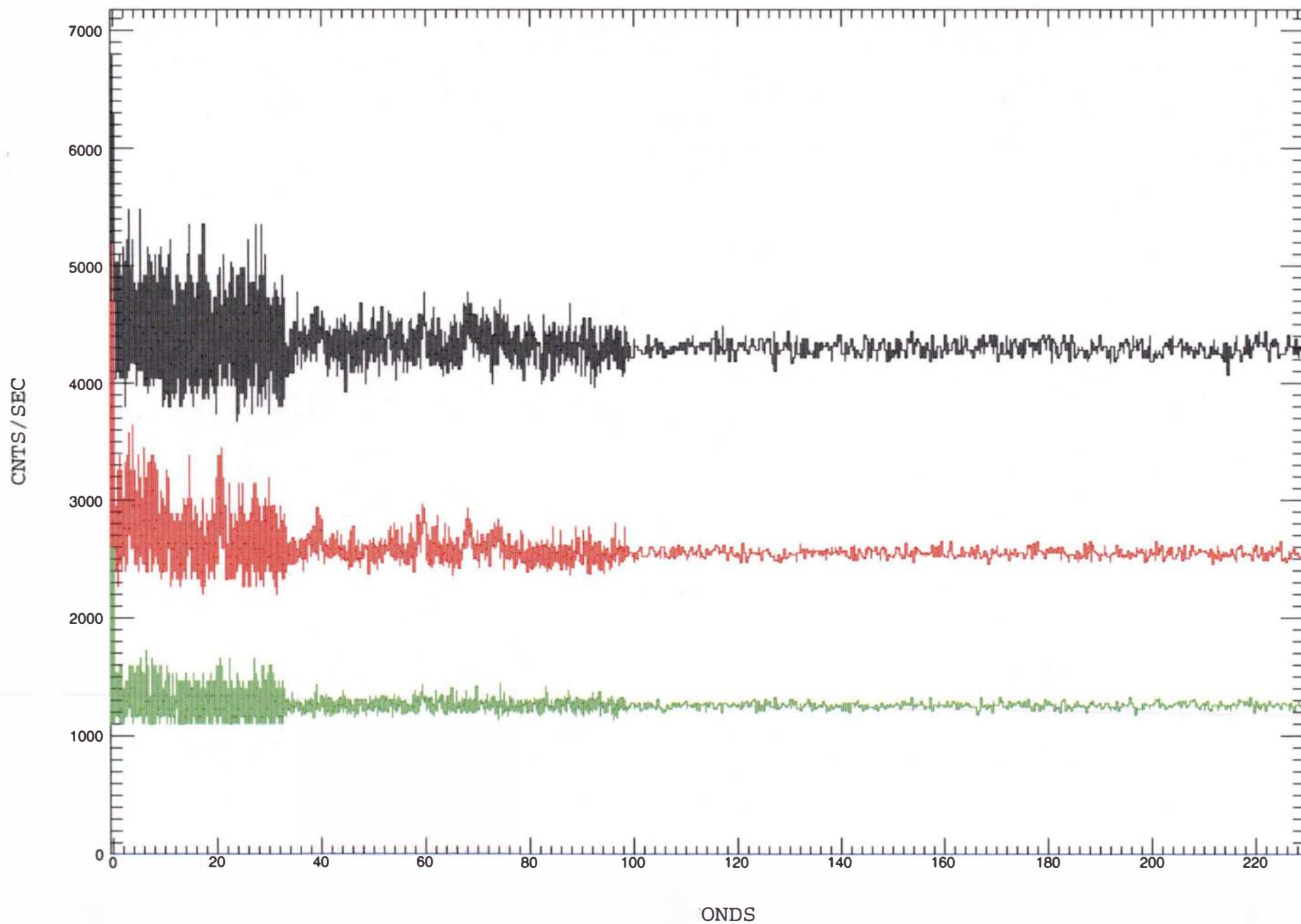
Chan 4 : [> 10 MeV]

Channel 1 + 3300

Channel 2 + 2200

Channel 3 + 1100

Channel 4 + 0



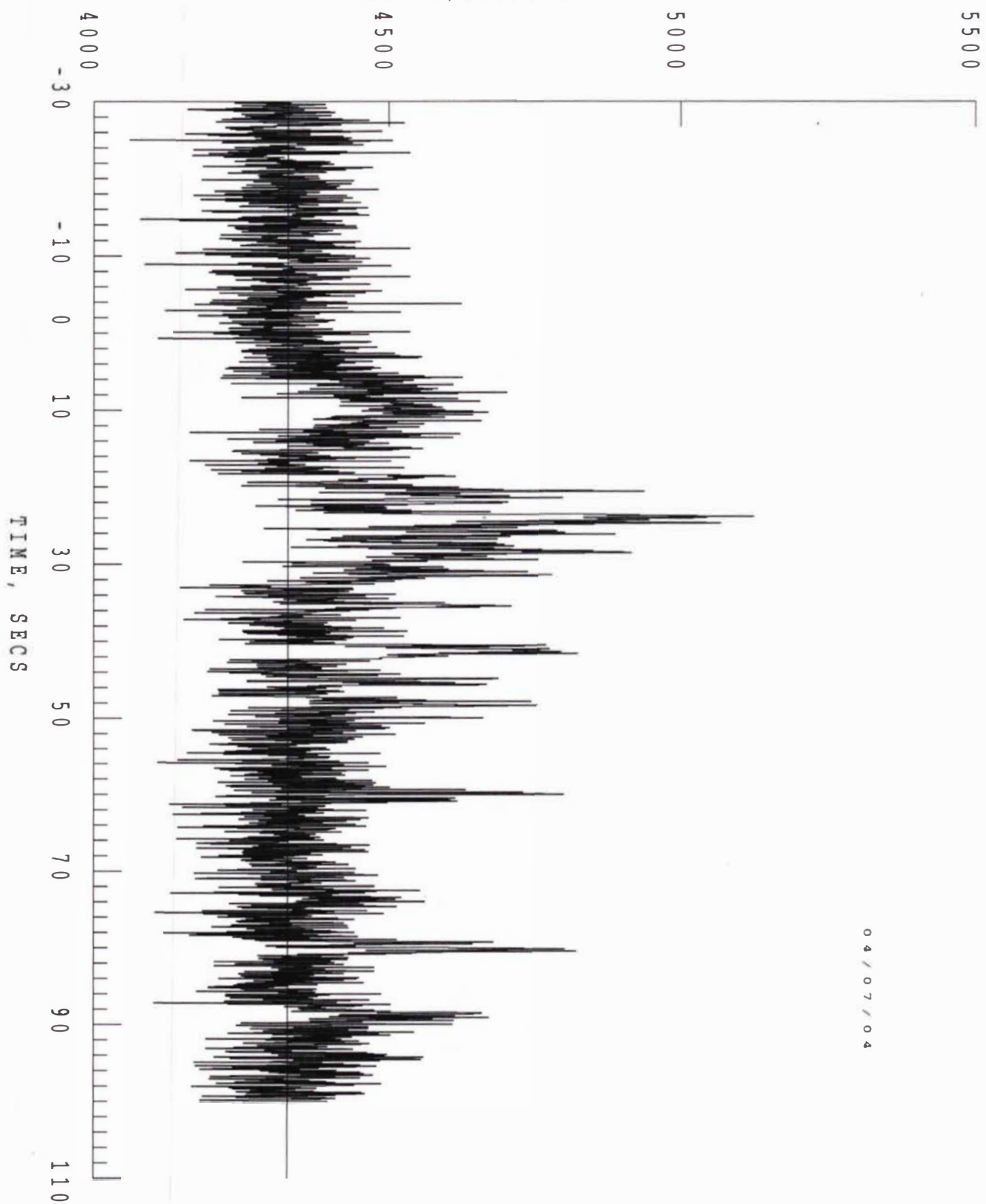
INTEGRAL

04/07/04

2925.023

100-10000 keV

COUNTS/0.050 S



04/07/04

From williams@sunspot.ssl.berkeley.edu Sun Jul 4 05:59:02 2004
Date: Sun, 4 Jul 2004 06:02:48 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS1_20040704_02949

HESSI 25 to 150 keV Counts
Created 4-Jul-2004 05:58:36.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0312500
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

000	687.001
001	687.001
002	687.001
003	686.669
004	687.669
005	687.669
006	687.669
007	687.669
008	686.869
009	687.869
010	687.869
011	687.869
012	687.869
013	686.769
014	687.769
015	687.769
016	687.769
017	687.769
018	686.969
019	686.969
020	687.969
021	687.969
022	686.569
023	687.569
024	687.569
025	687.569
026	687.569
027	686.469
028	687.469
029	687.469
030	687.469
031	687.469
032	686.369
033	687.369
034	687.369
035	687.369
036	687.369
037	686.269
038	687.269
039	687.269
040	687.269
041	687.269
042	686.169
043	687.169
044	687.169
045	687.169
046	687.169
047	686.069
048	687.069
049	687.069
050	687.069
051	687.069
052	686.689
053	687.689
054	687.689
055	687.689
056	687.689
057	686.889
058	687.889
059	687.889
060	687.889
061	687.889
062	686.789
063	687.789
064	687.789
065	687.789
066	686.989
067	687.989
068	687.989
069	687.989
070	687.989
071	686.589

1650.980	40
1651.230	46
1651.480	26
1651.730	28
1651.980	36
1652.230	28
1652.480	36
1652.730	30
1652.980	48
1653.230	46
1653.480	36
1653.730	40
1653.980	40
1654.230	34
1654.480	38
1654.730	38
1654.980	30
1655.230	48
1655.480	28
1655.730	20
1655.980	32
1656.230	36
1656.480	40
1656.730	36
1656.980	20
1657.230	48
1657.480	42
1657.730	38
1657.980	26
1658.230	30
1658.480	38
1658.730	34
1658.980	48
1659.230	36
1659.480	42
1659.730	36
1659.980	40
1660.230	36
1660.480	44
1660.730	36
1660.980	48
1661.230	48
1661.480	30
1661.730	52
1661.980	40
1662.230	26
1662.480	40
1662.730	34
1662.980	20
1663.230	42
1663.480	32
1663.730	30
1663.980	46
1664.230	30
1664.480	40
1664.730	40
1664.980	40
1665.230	40
1665.480	20
1665.730	26

From hops@space.mit.edu Sat Jul 3 19:53:00 2004
Date: Sat, 3 Jul 2004 22:53:56 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: khurley@sunspot.ssl.berkeley.edu
Subject: Trigger Notice to IPN

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Sun Jul 4 02:52:26 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13190 TJD; 186 DOY; 04/07/04
GRB_TIME: 6378.11 SOD {01:46:18.11} 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

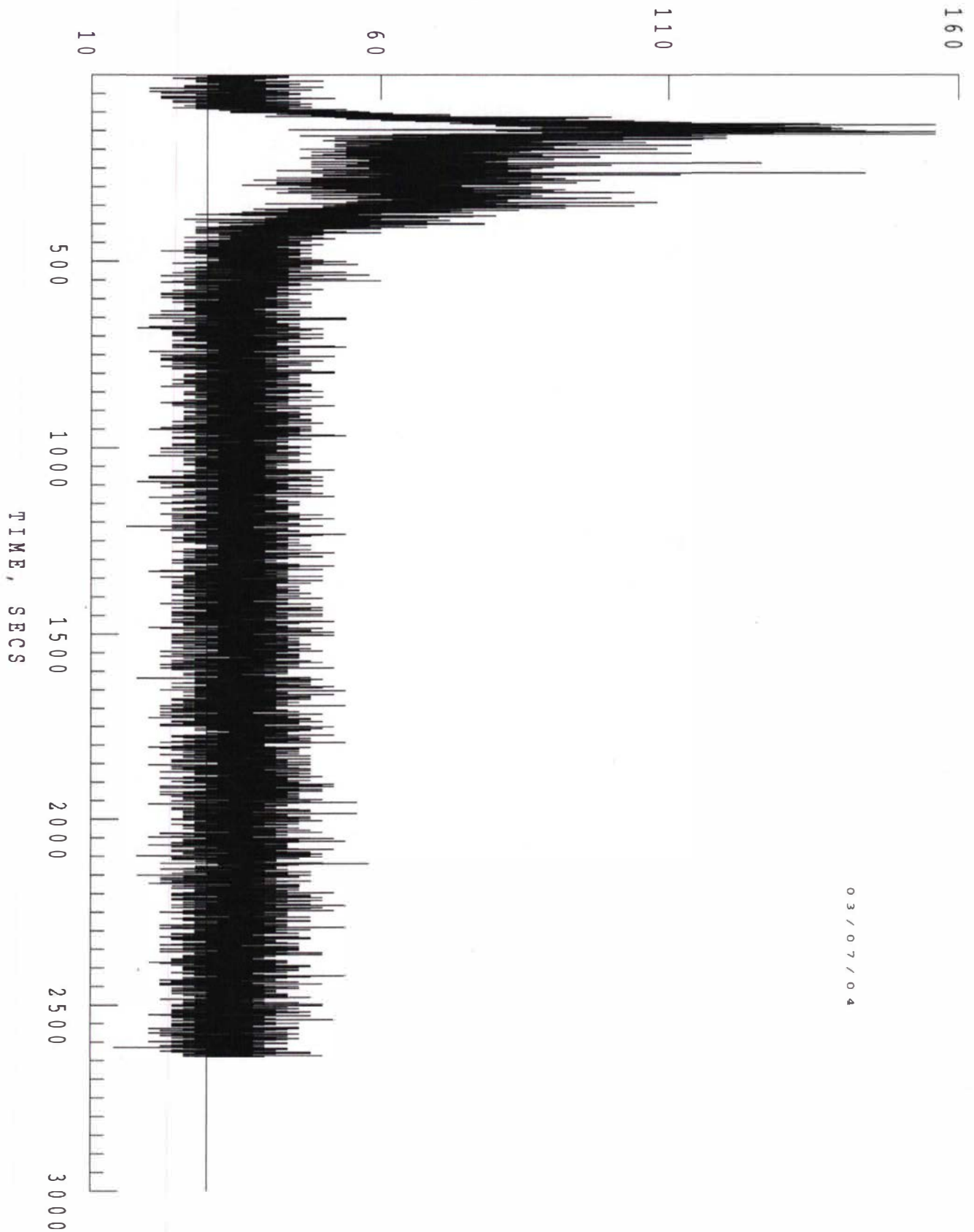
MS01

04/07/04

5039.949

50 - 3000 keV

COUNTS/0.250 S

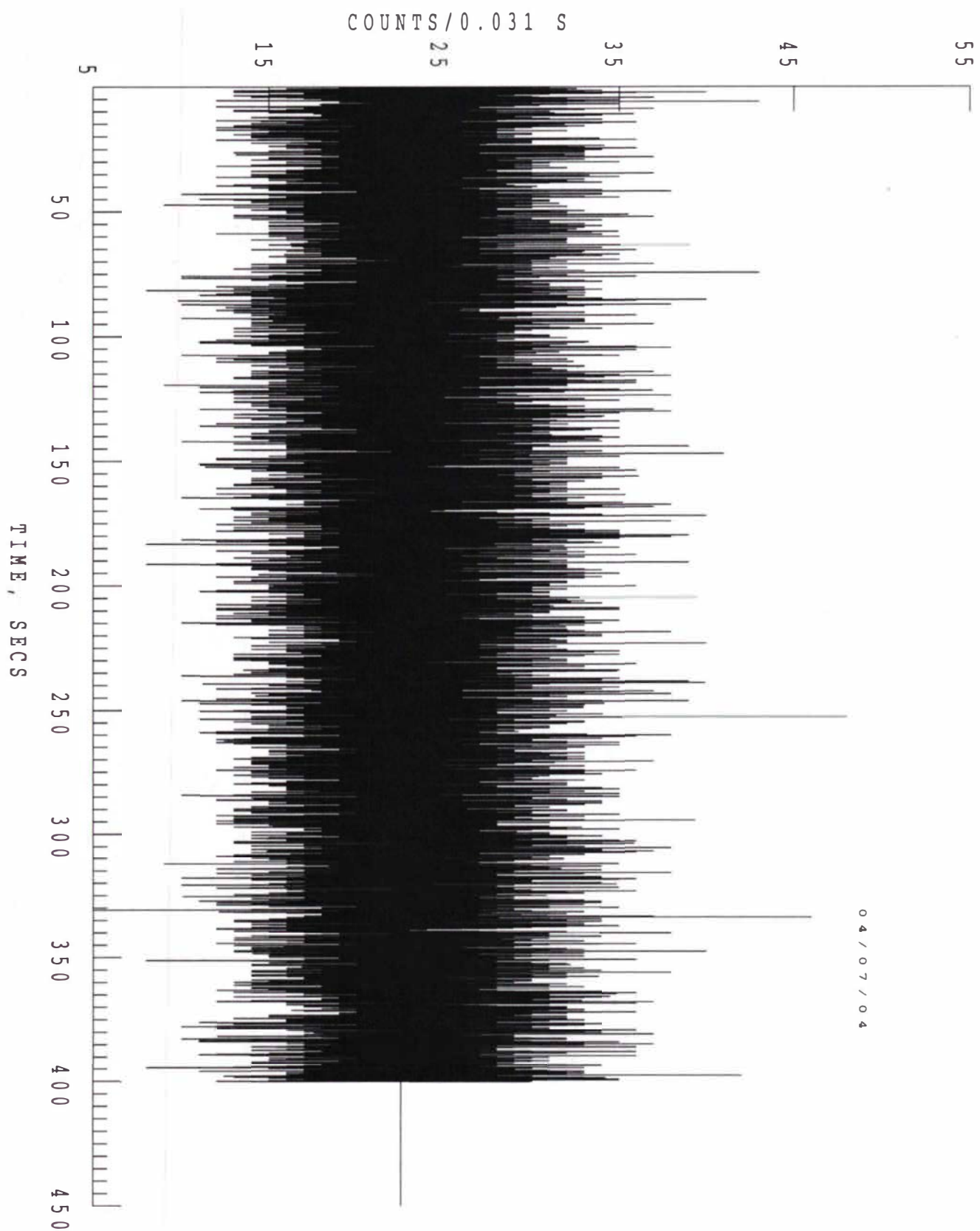


03/07/04

HESSI

04/07/04 6178.000 (GHETE_9999_1_20040704_06378)

25- 150 keV



From vxw@capella.gsfc.nasa.gov Sun Jul 4 08:58:07 2004
Date: Sun, 4 Jul 2004 11:58:59 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@sunspot.ssl.berkeley.edu
Subject: GCN/HETE_POSITION

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Sun 04 Jul 04 15:57:43 UT
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 3398, Seq_Num: 1
GRB_DATE: 13190 TJD; 186 DOY; 04/07/04
GRB_TIME: 57438.91 SOD {15:57:18.91} UT
TRIGGER_SOURCE: Trigger on the 25-400 keV band.
WXM_SIG/NOISE: 0.1 sig/noise on a 6.720 [sec] timescale
SC_LONG: 38 [deg East]
SUN_POSTN: 104.12d {+06h 56m 29s} +22.80d {+22d 48' 12"}
MOON_POSTN: 318.01d {+21h 12m 03s} -21.43d {-21d 25' 32"}
MOON_ILLUM: 93 [%]
COMMENTS: No s/c ACS pointing info available yet.
COMMENTS: Probable GRB.

Callunator

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_3398_1_20040704_57438)

BEG TIME: 04/07/04 DOY 186 Julian 2453192.16250 UT = 15.900 15:54:00 (57240.000 secs) [sct = 0019 9c0c d250 ba7d]
 END TIME: 04/07/04 DOY 186 Julian 2453192.16708 UT = 16.010 16:00:36 (57636.000 secs) [sct = 0019 9c0c e9eb 36cf]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

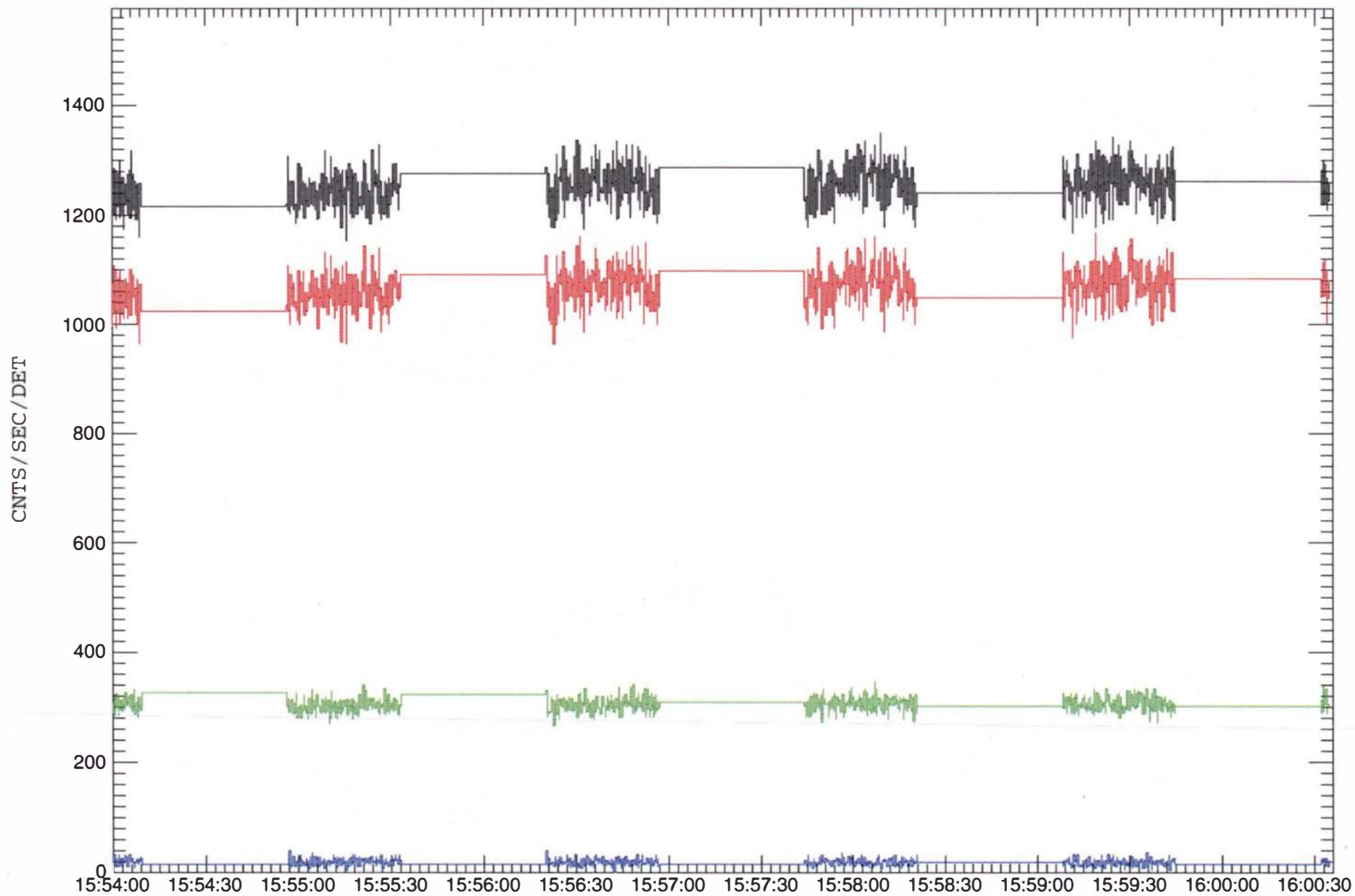
Chan 4:[E6=510 ->]

Channel 1 + 600

Channel 2 + 400

Channel 3 + 200

Channel 4 + 0



RS UT

FREGATE BURST #2 TIME HISTORY -- DETECTORS 1-4 SUMMED

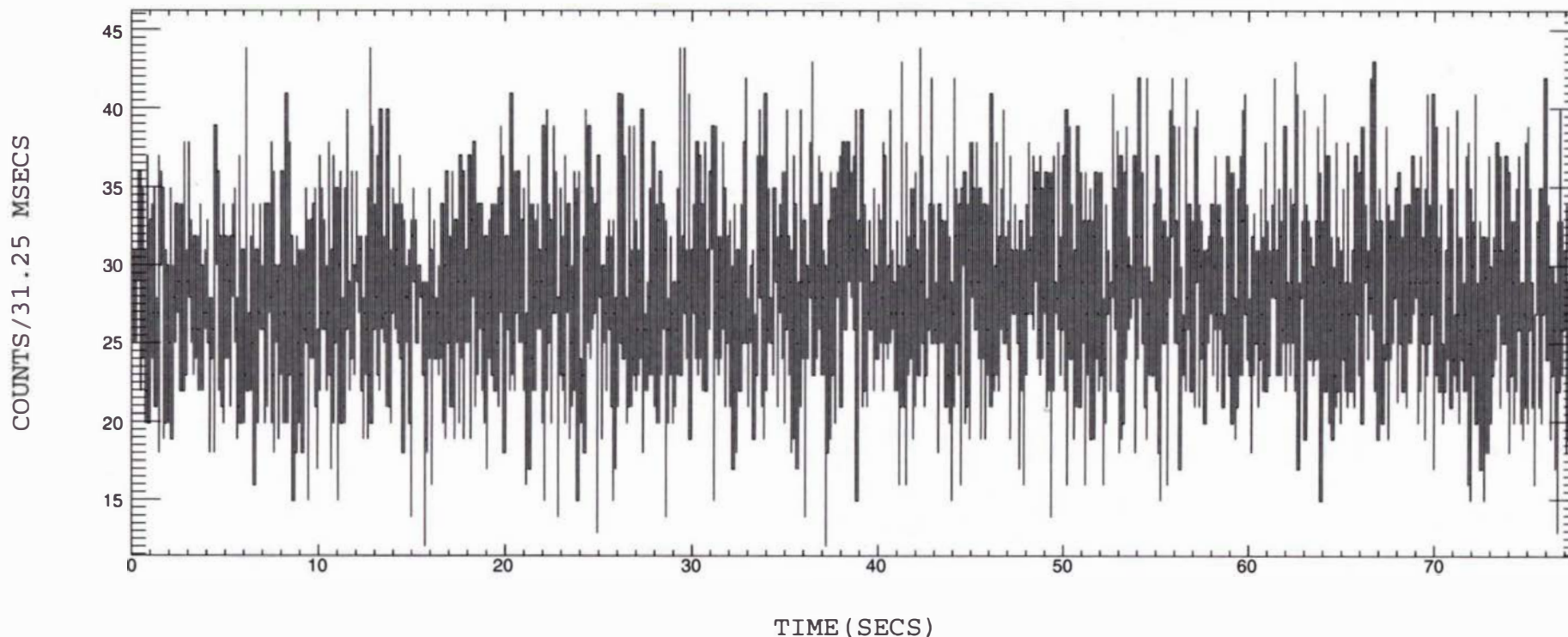
04/07/04 DOY 186 Julian 2453192.16504

TRIGGERED BY FREGATE UT = 15:57:39 (57459.25 secs) [sct = 0019 9c0c df62 4824]

PLOT STARTING TIME UT = 15:57:29 (57449.06 secs) [sct = 0019 9c0c dec6 a852]

BACKGRND SAMPLED FROM UT = 15:57:13 (57433.12 secs) [sct = 0019 9c0c ddd3 8824]

BIN WIDTH 31.25 msecs INTEGRATED OVER CHANS. 20-200



TRIGGER: deltaE = 0, deltaT = 20.40ms, USING DETECTOR(S) ?

CHANNELS	<01>	<02>	<03>	<04>	<05>	<06>	<07>	<08>	<09>	<10>	<11>	<12>	<13>	<14>	<15>	<16>
EXC1 REF VALUES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXC1 CNT RATES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXC2 REF VALUES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXC2 CNT RATES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHANNELS	<17>	<18>	<19>	<20>	<21>	<22>	<23>	<24>	<25>	<26>	<27>	<28>	<29>	<30>	<31>	<32>
EXC1 REF VALUES	15	15	0	0	61	60	0	0	355	348	0	0	1273	1245	0	0
EXC1 CNT RATES	6	5	0	0	33	19	0	0	256	265	0	0	1094	1034	0	0
EXC2 REF VALUES	15	15	0	0	61	60	0	0	355	348	0	0	1273	1245	0	0
EXC2 CNT RATES	6	5	0	0	33	19	0	0	256	265	0	0	1094	1034	0	0

GHETE 3398 1 20040704 57438

ULYSSES RT

05/07/04

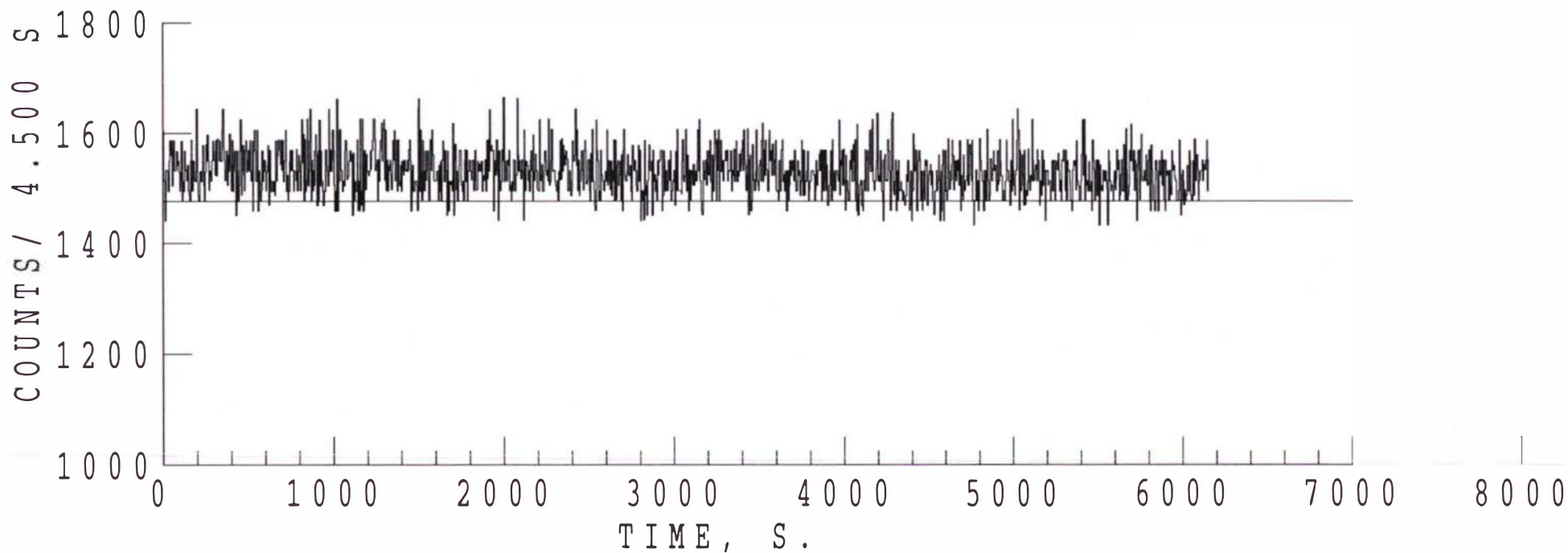
04/07/04 54360.094 s

0.500 S INTERVALS REGROUPED BY 9

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



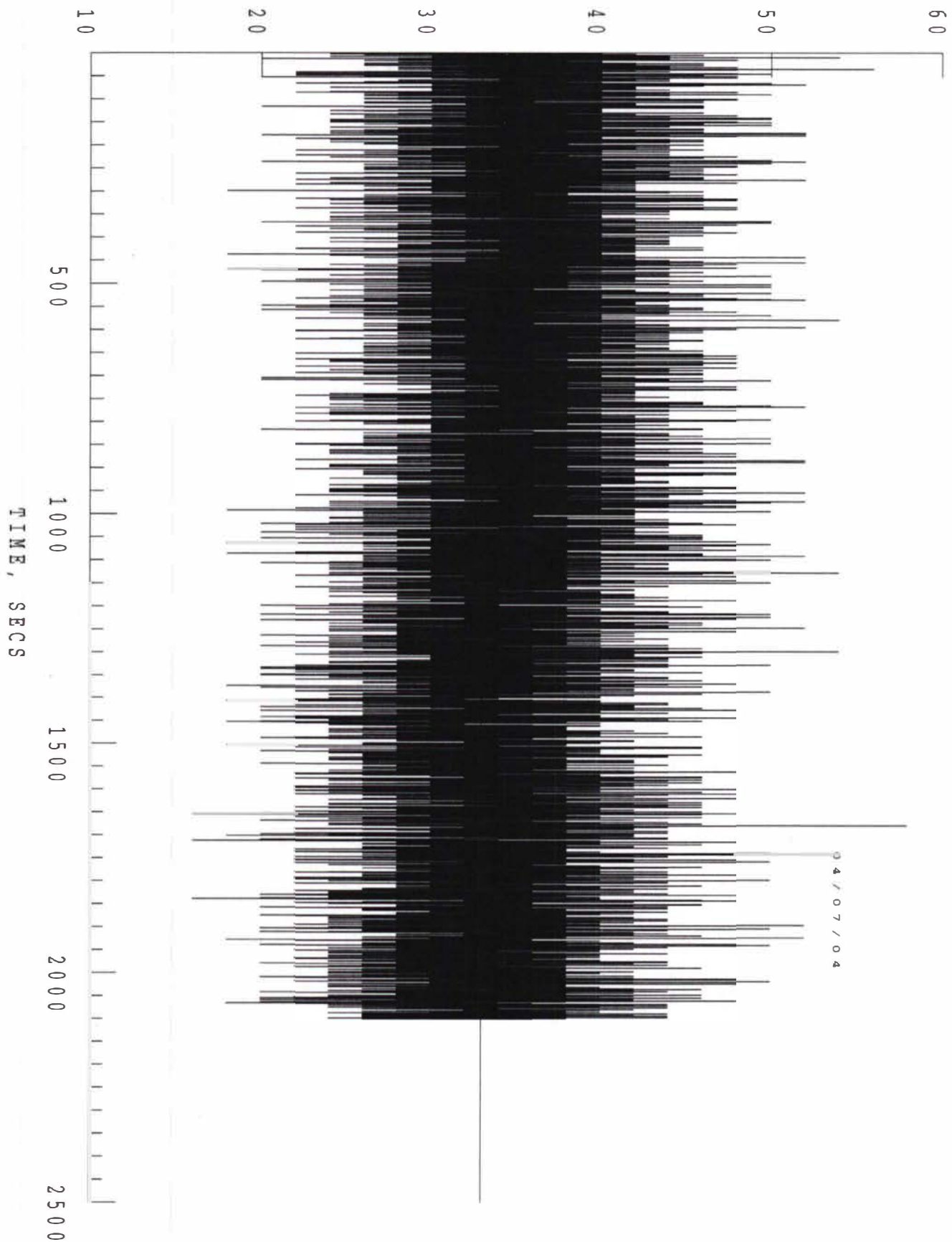
MS01

04/07/04

56099.764

50 - 3000 keV

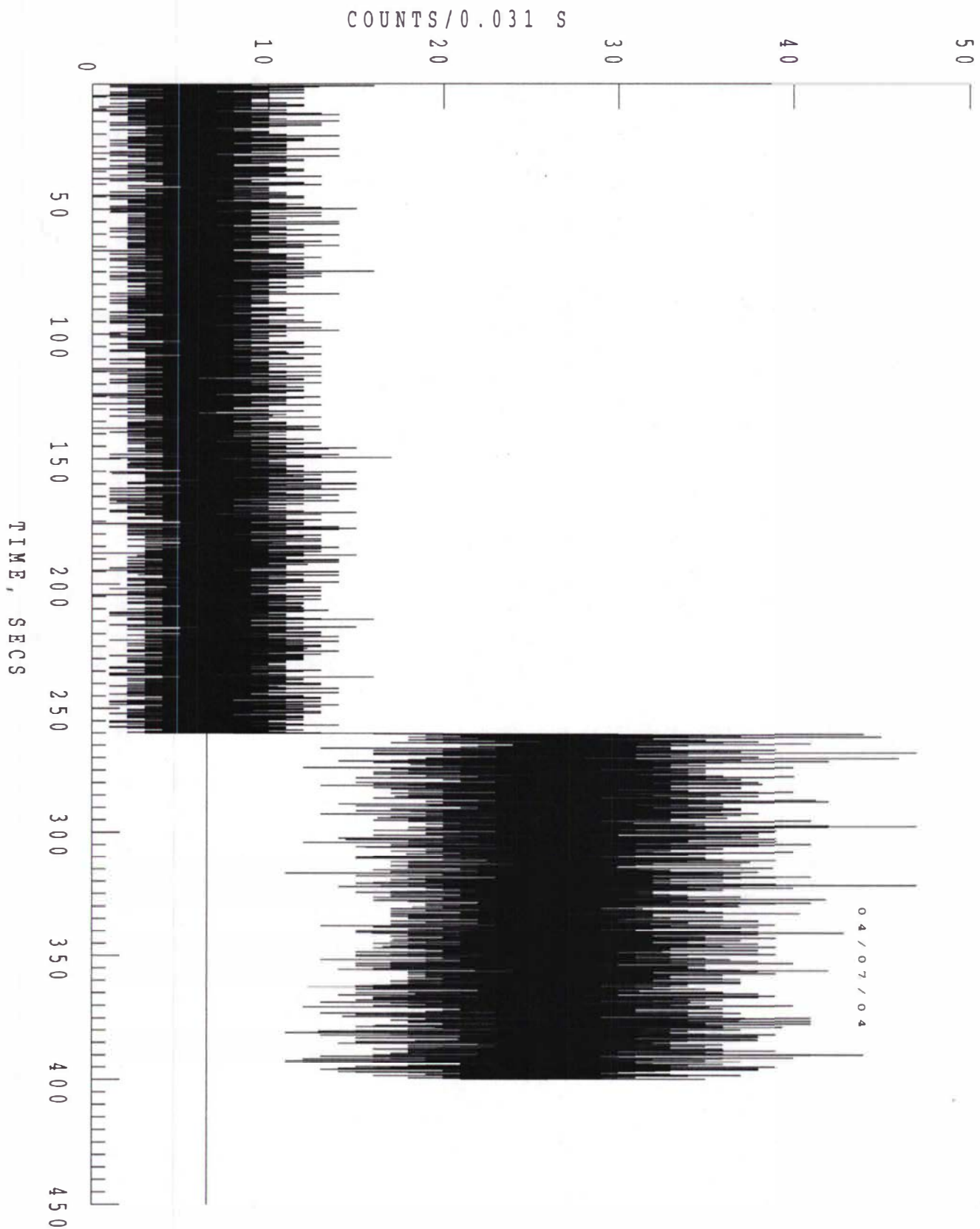
COUNTS/0.250 S

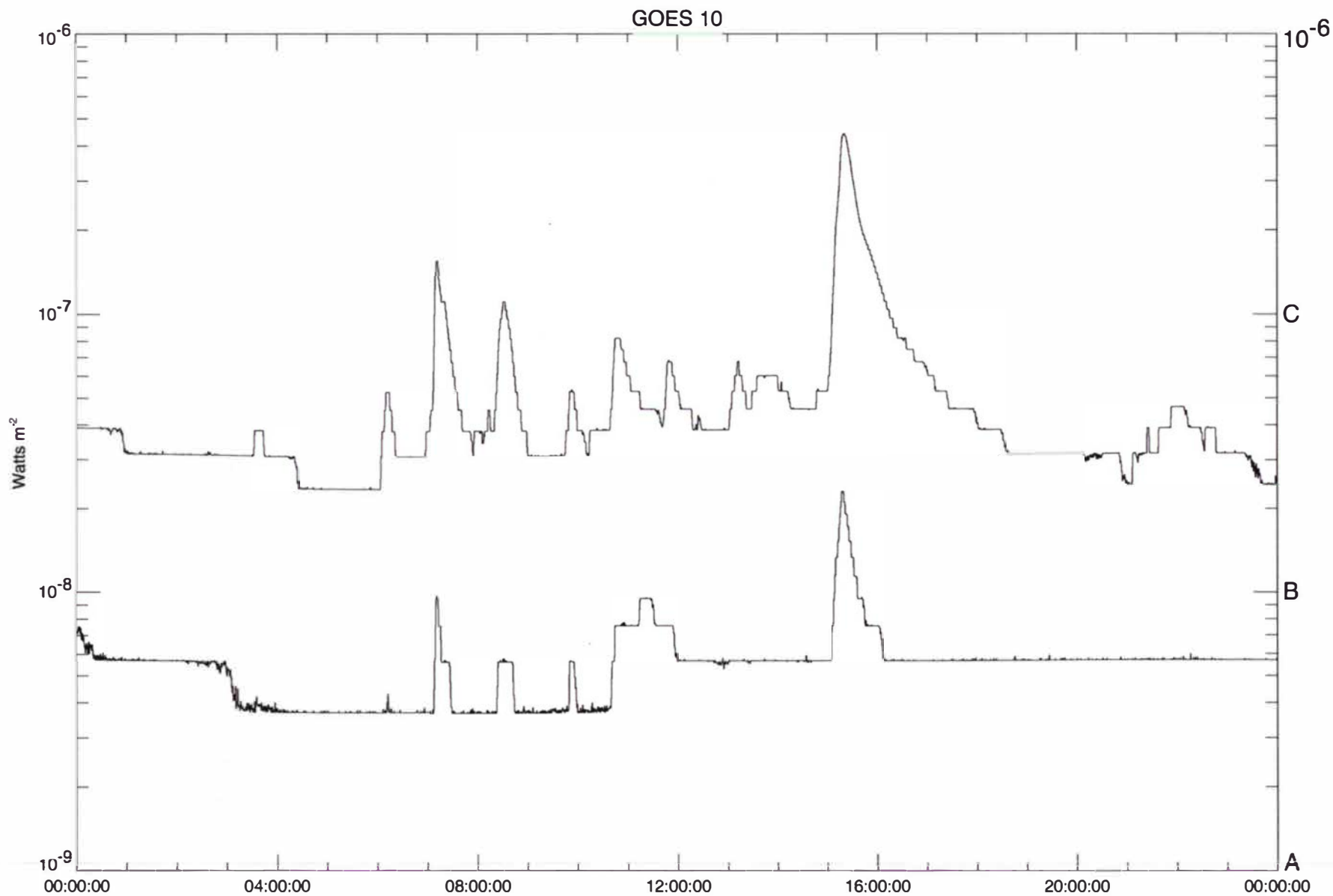


HESSI

04/07/04 57238.000 (GHETE_3398_1_20040704_57438)

25- 150 keV





Data Start: 04/07/04, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

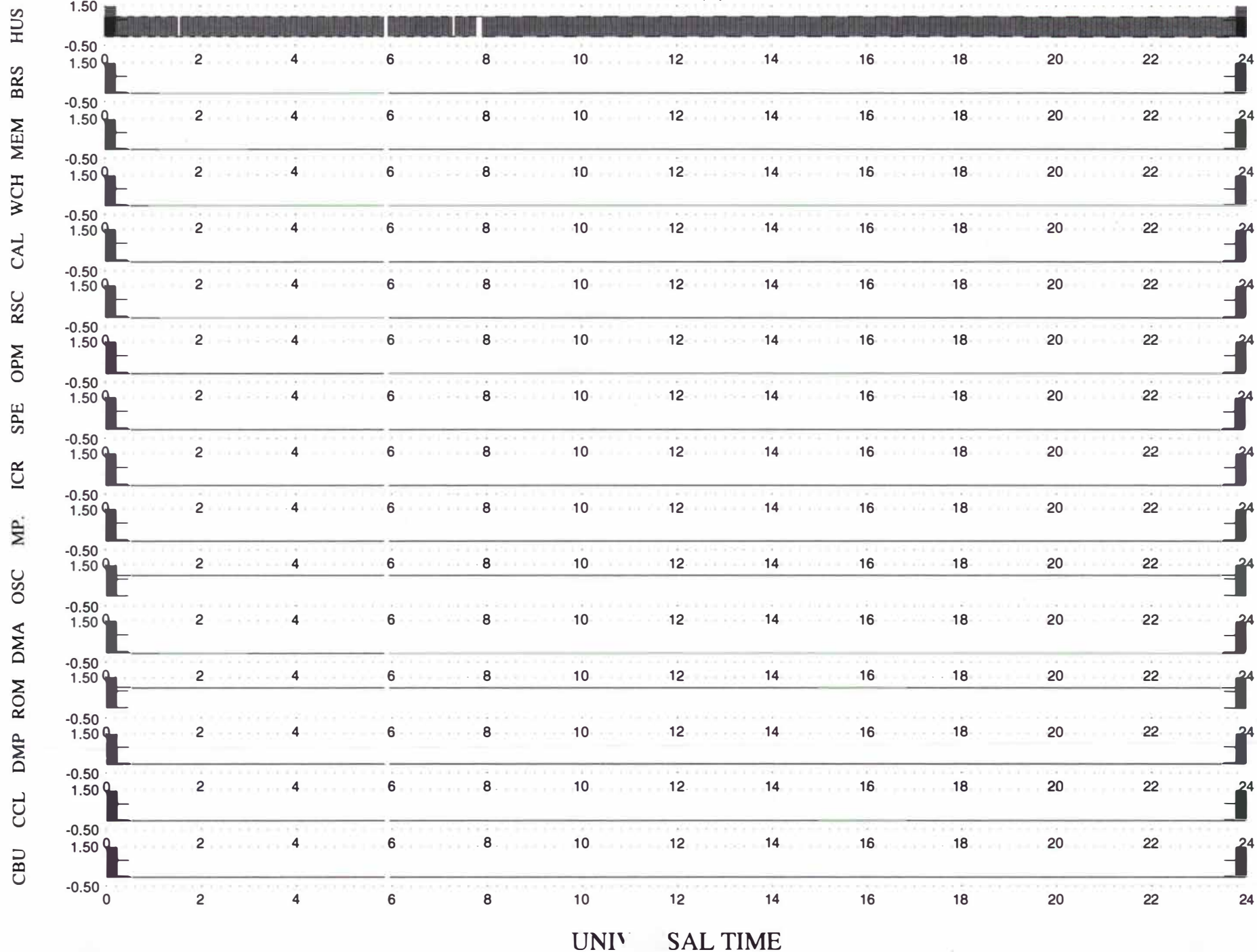
2 (0.5 - 4.0 Angstroms)

Background not subtracted

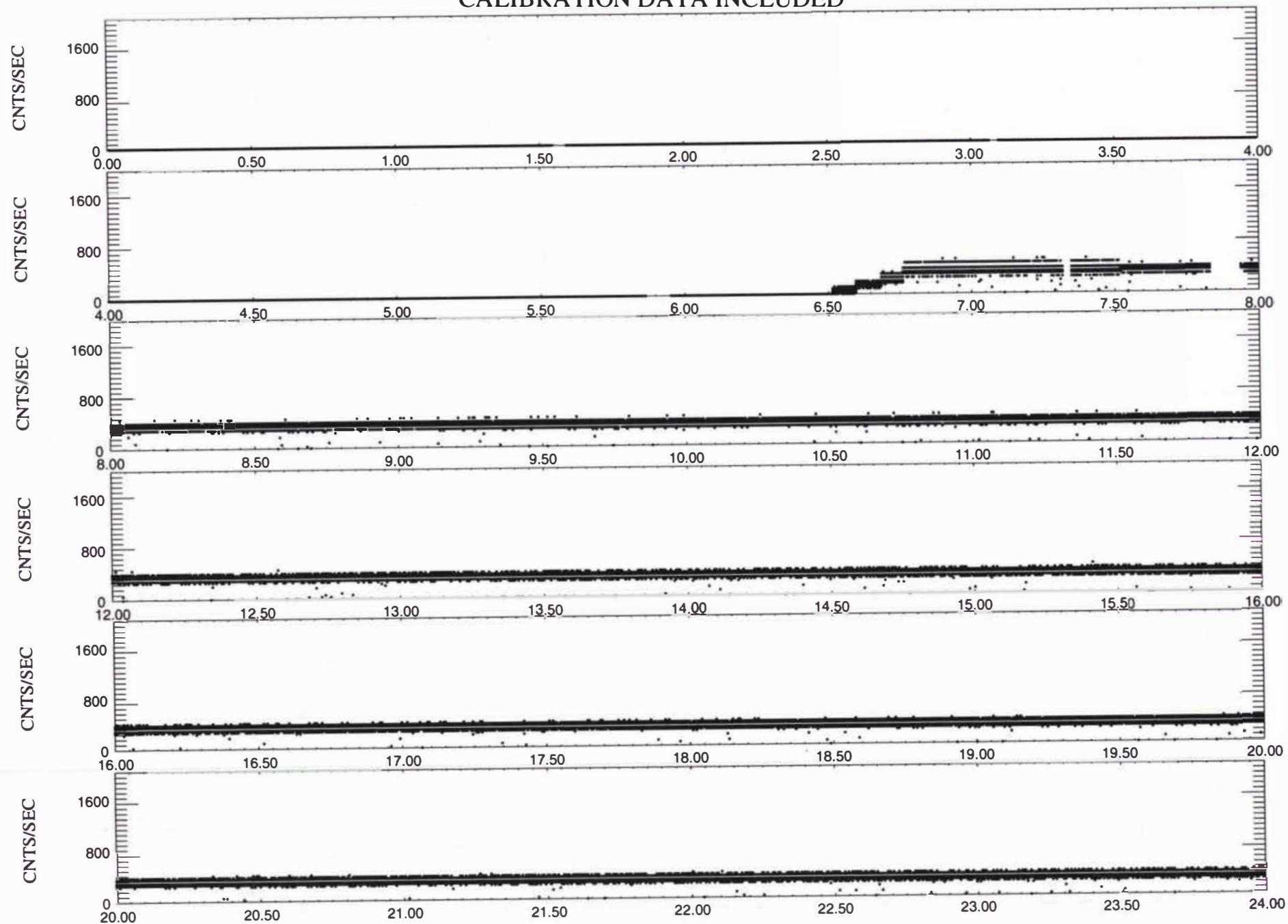
Plot created: 04/07/05, 0827

Sample average = 10

NO BURST (0)



CALIBRATION DATA INCLUDED



UNIV SAL TIME

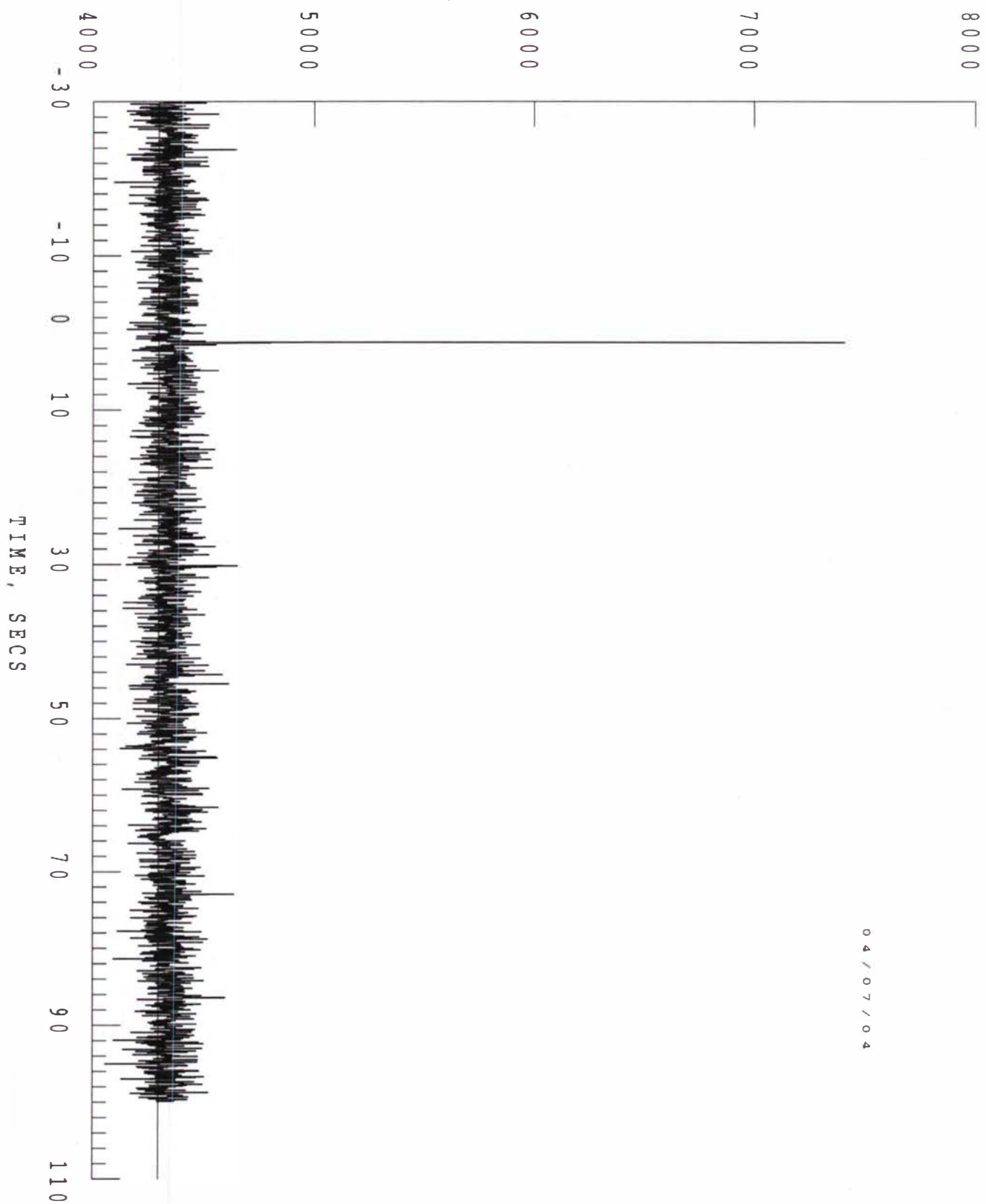
INTEGRAL

05/07/04

72.021

100-10000 keV

COUNTS/0.050 S



04/07/04

INTEGRAL 20040705 00072

ULYSSES RT

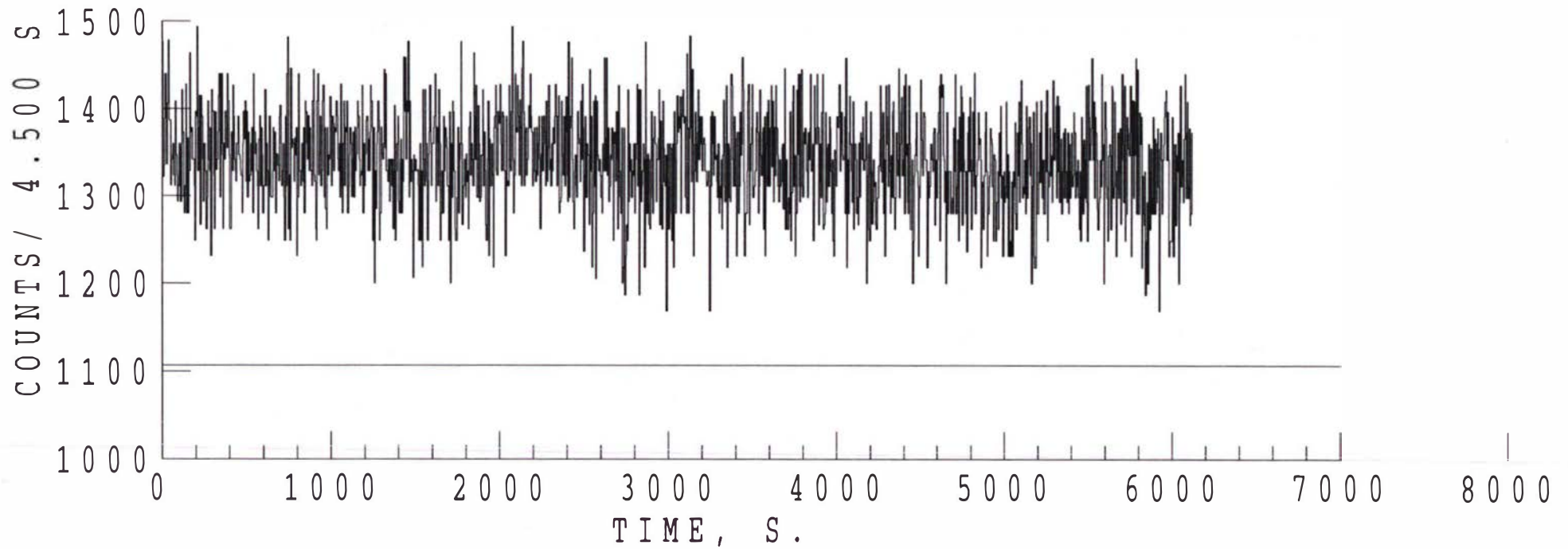
05/07/04

04/07/04 83412.312 s

0.500 S INTERVALS REGROUPED BY 9

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



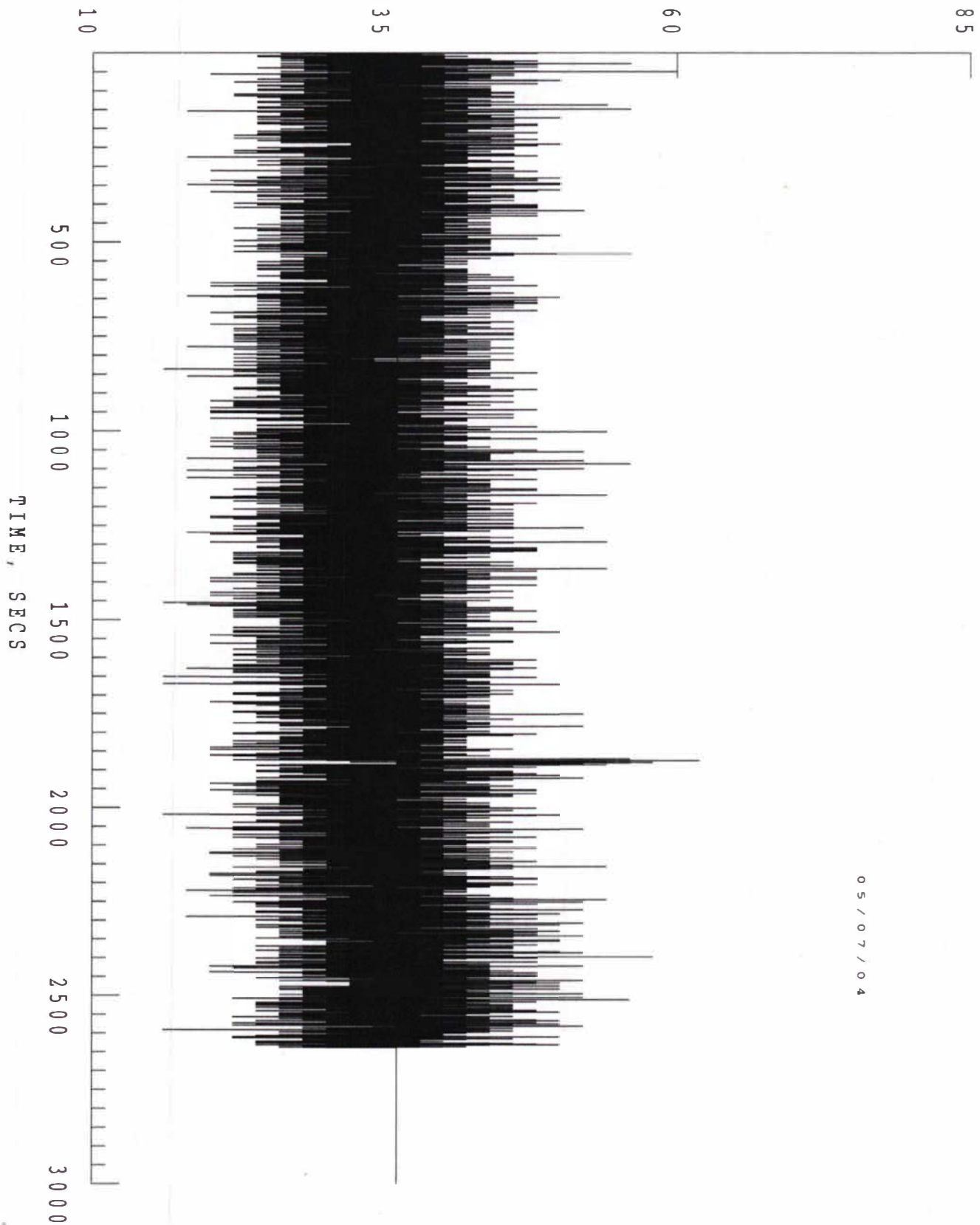
MS01

04/07/04

85140.468

50 - 3000 keV

COUNTS/0.250 S

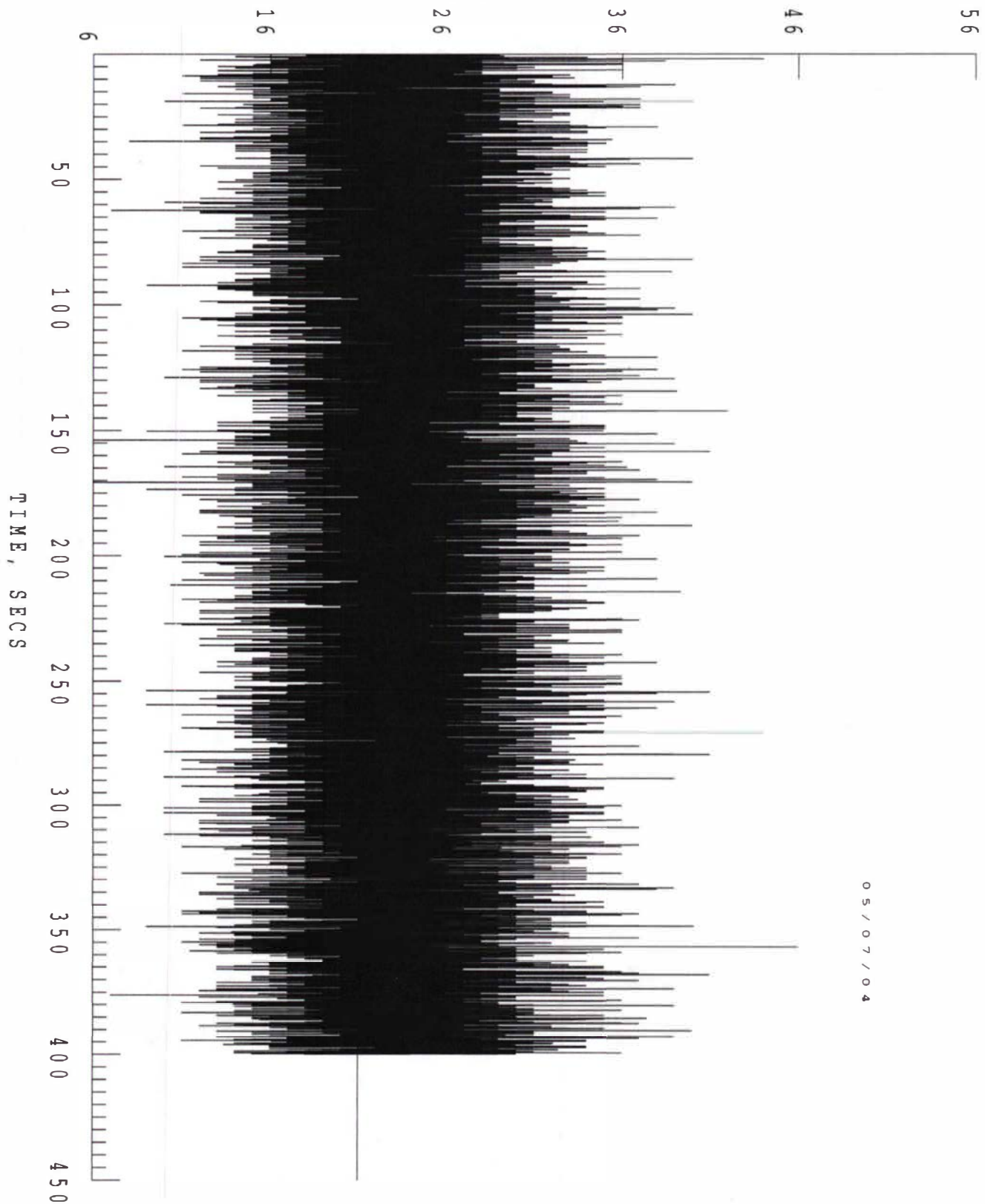


HESSI

04/07/04 86272.000 (INTEGRAL_20040705_00072)

25- 150 keV

COUNTS/0.031 S



From hops@space.mit.edu Mon Jul 5 03:12:10 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Mon, 5 Jul 2004 10:13:05 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Mon Jul 5 10:13:05 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13191 TJD; 187 DOY; 04/07/05
GRB_TIME: 29124.40 SOD {08:05:24.40} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20040705_29124)

BEG TIME: 05/07/04 DOY 187 Julian 2453192.83458 UT = 08.030 08:01:47 (28908.000 secs) [sct = 0019 9c1a 5770 d989]
 END TIME: 05/07/04 DOY 187 Julian 2453192.83958 UT = 08.150 08:09:00 (29340.000 secs) [sct = 0019 9c1a 7130 a6fb]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

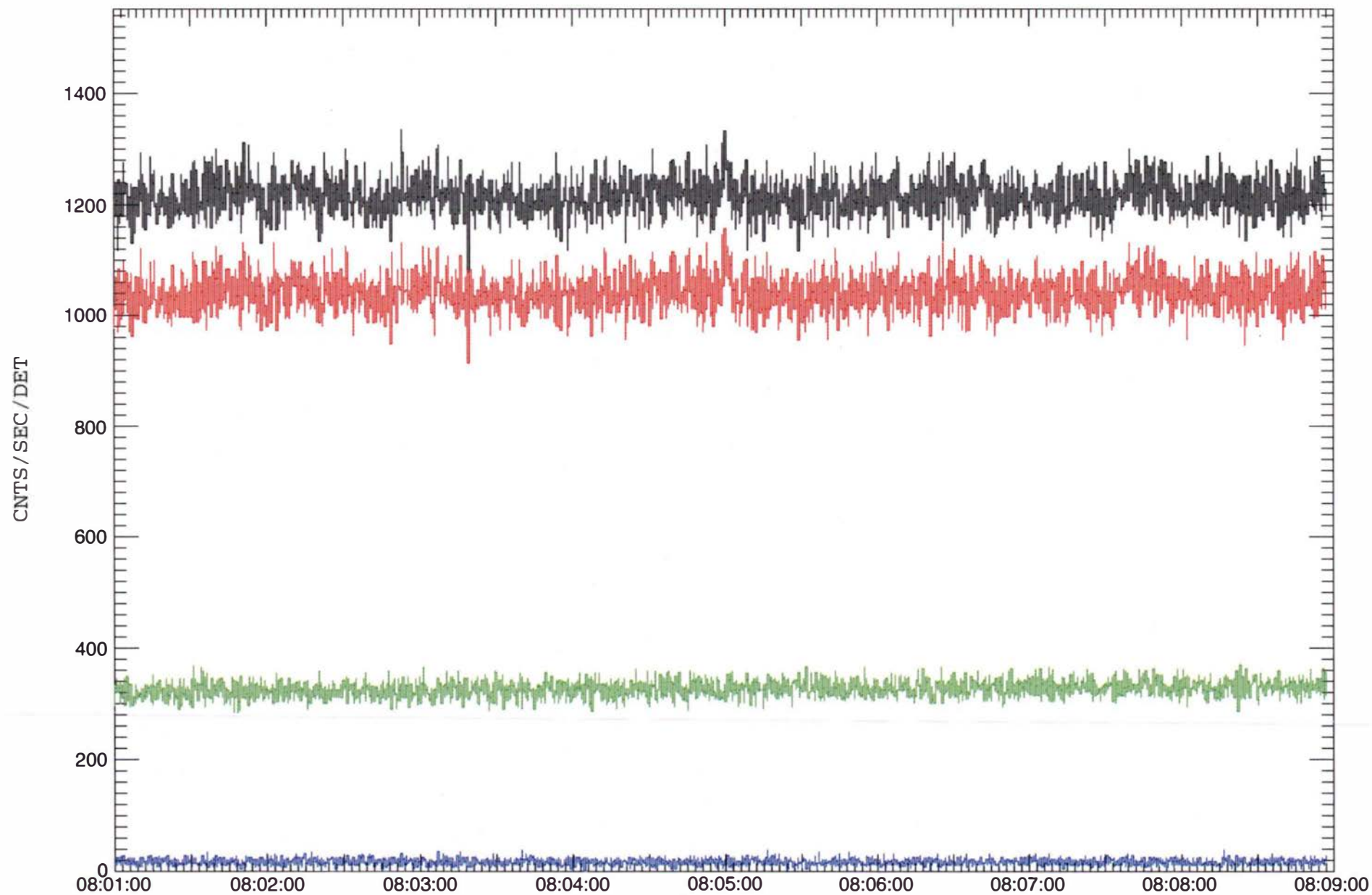
Chan 4:[E6=510 ->]

Channel 1 + 600

Channel 2 + 400

Channel 3 + 200

Channel 4 + 0



RS UT

GHETE 9999 1 20040705 29124

ULYSSES RT

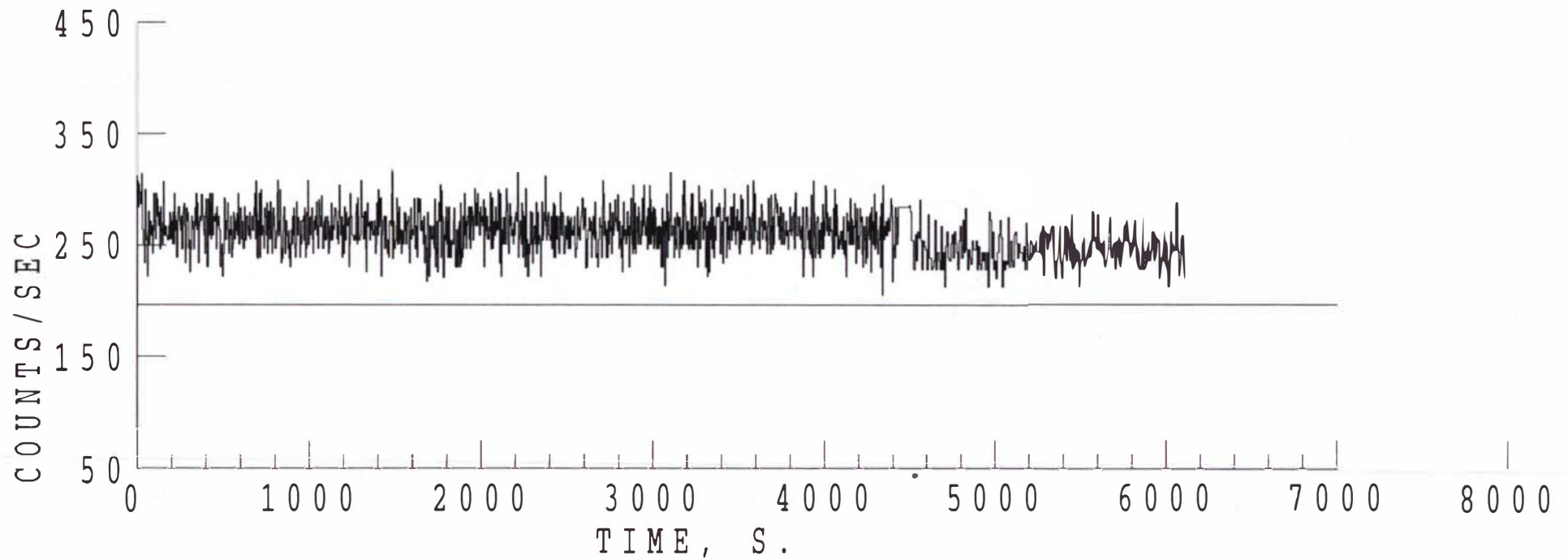
05/07/04

05/07/04 26064.027 s

INTERVALS REGROUPED BY 14

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



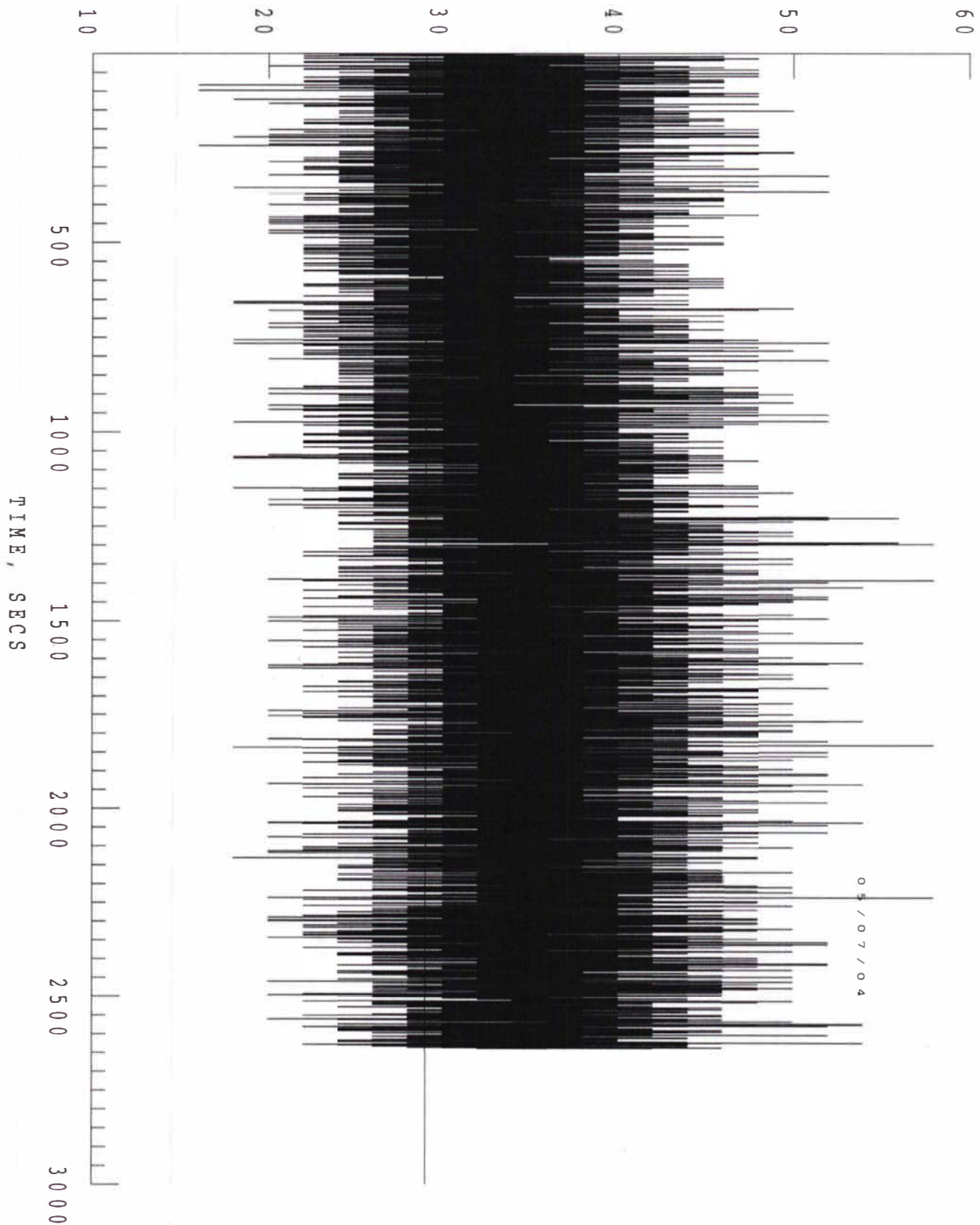
MS01

05/07/04

27779.937

50 - 3000 keV

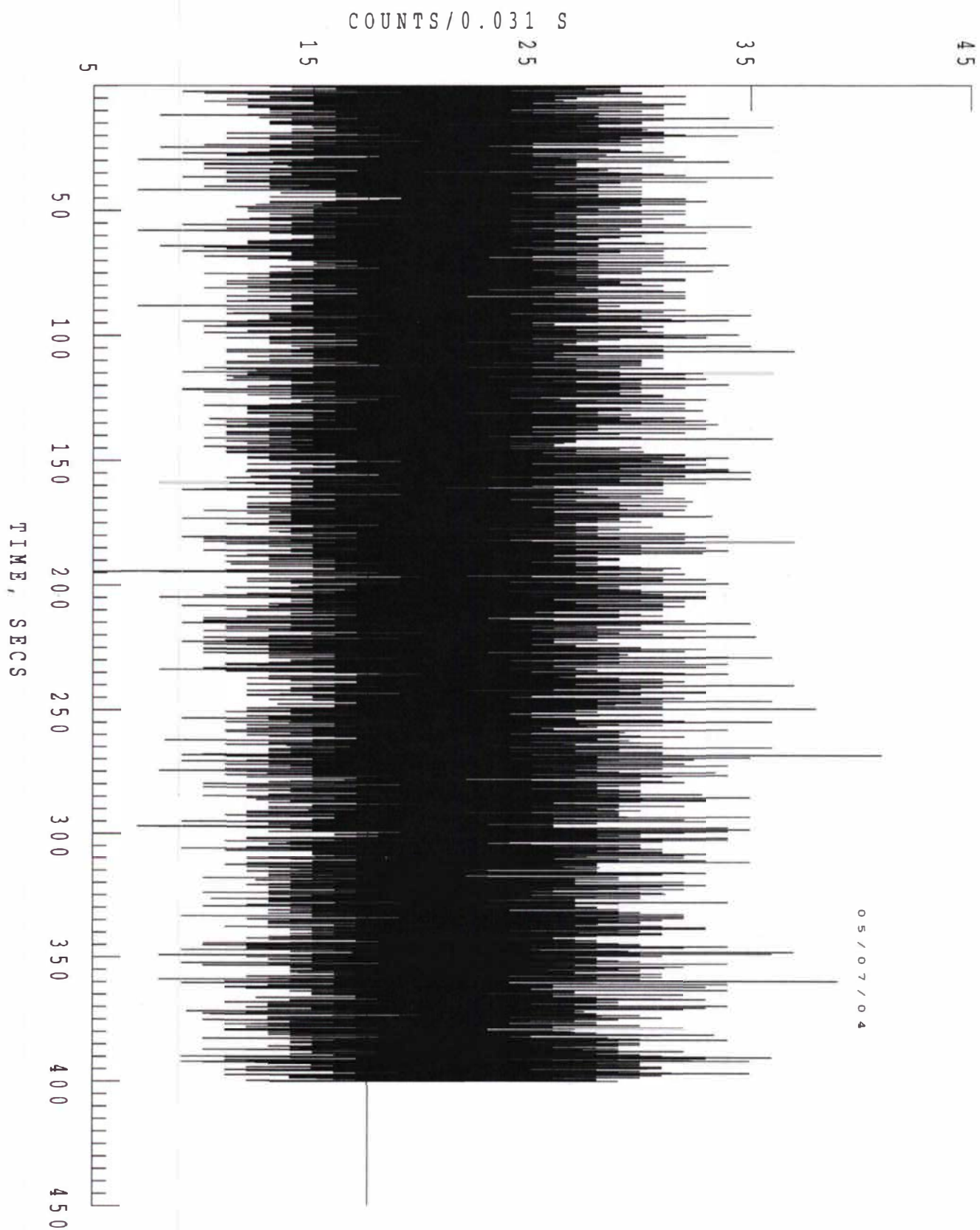
COUNTS/0.250 S



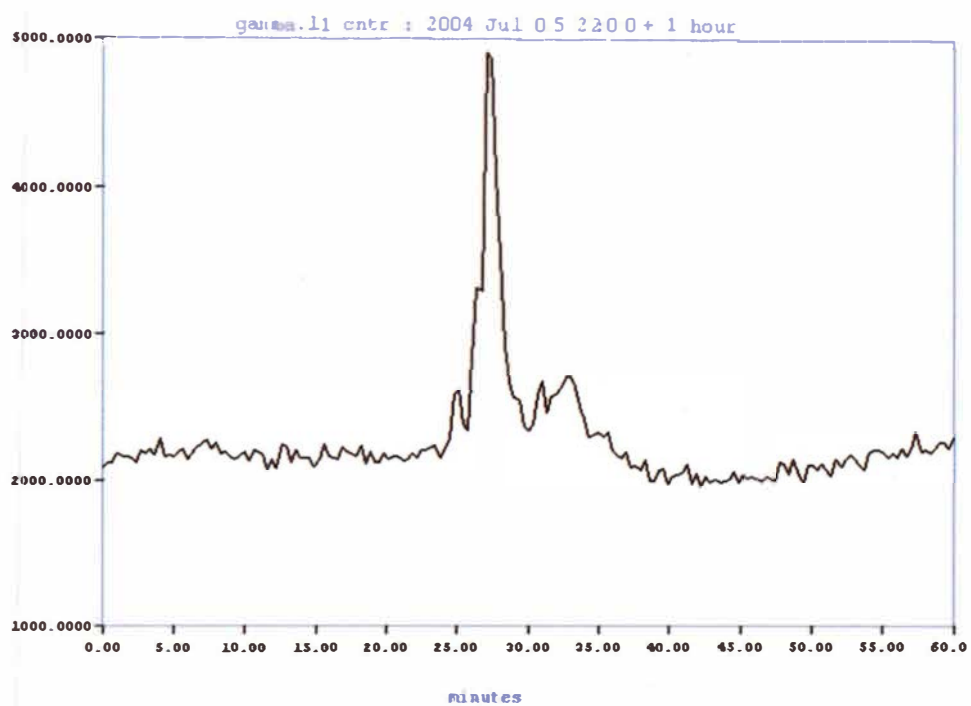
HESSI

05/07/04 28924.000 (GHETE_9999_1_20040705_29124)

25- 150 keV



GRS Solar Flare



ULYSSES RT

09/07/04

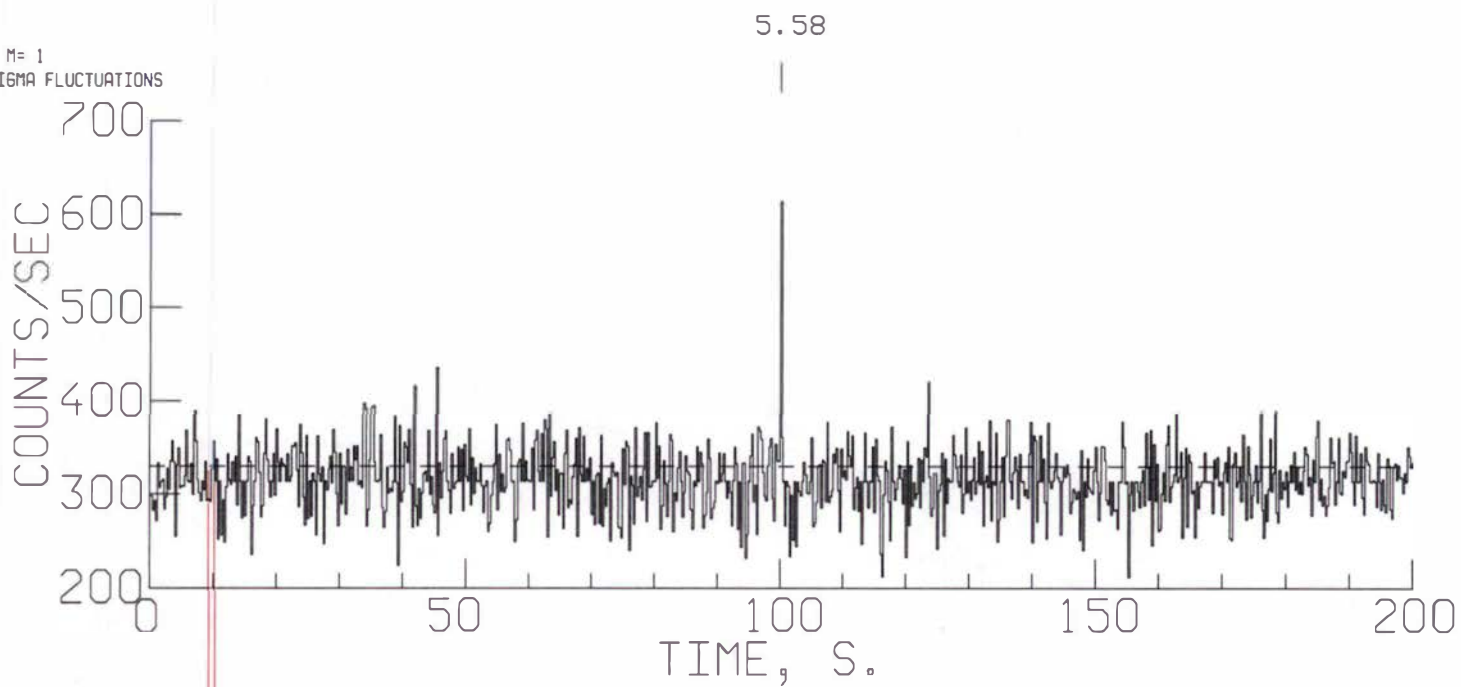
05/07/04 81266.945 s

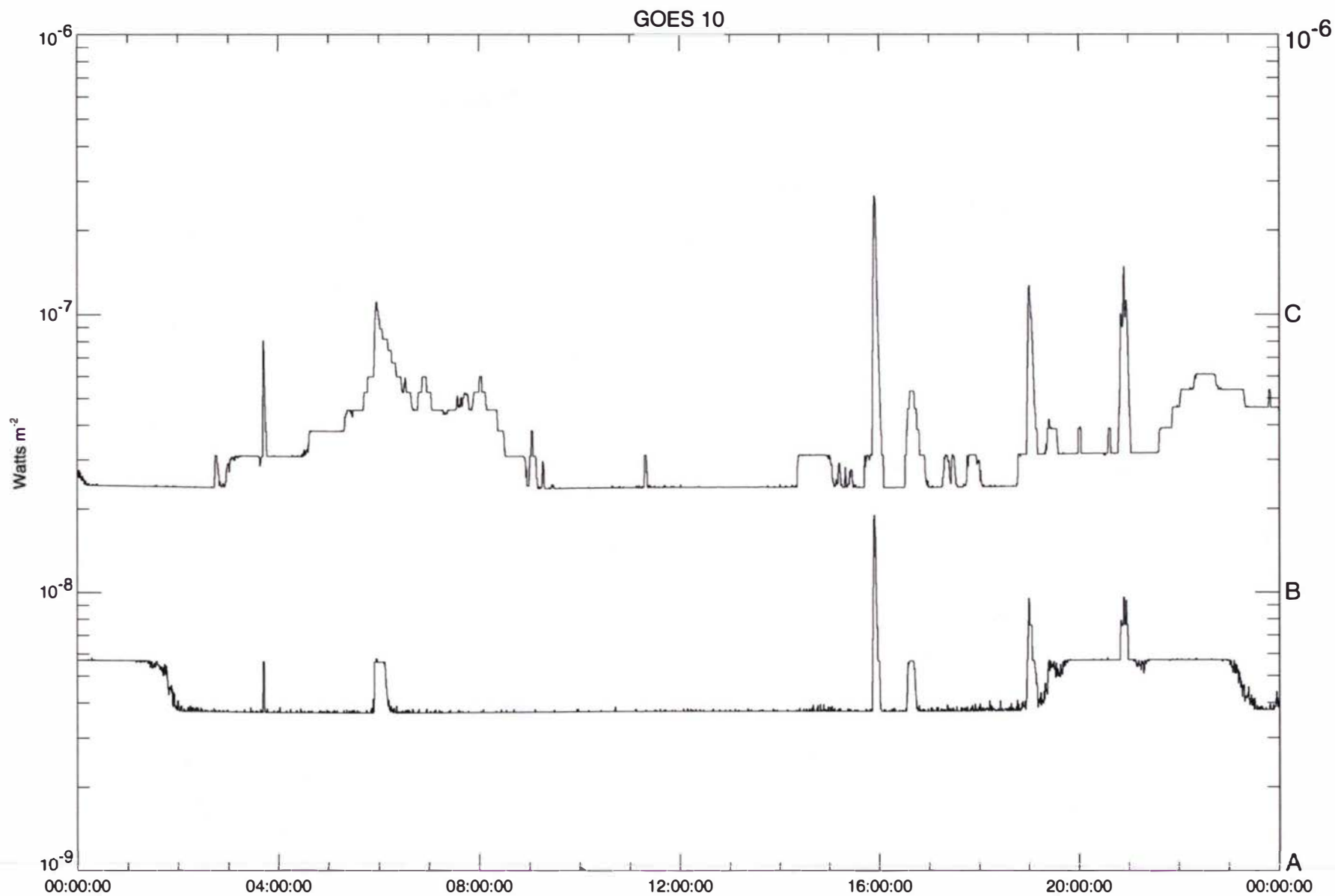
0.250 S INTERVALS REGROUPED BY 1

69- 65 keV

N= 10 M= 1

>5.0 SIGMA FLUCTUATIONS





Data Start: 04/07/05, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

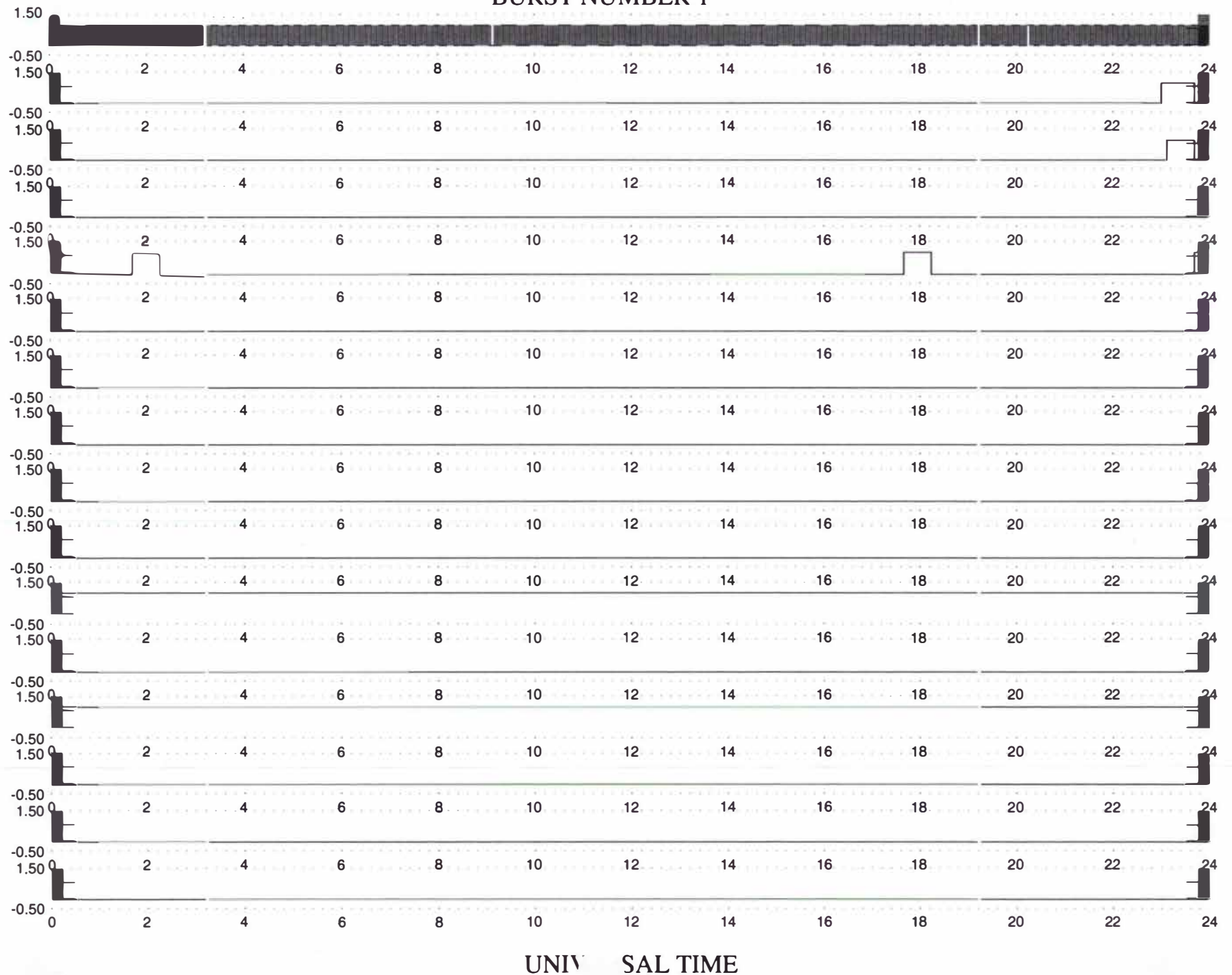
2 (0.5 - 4.0 Angstroms)

Background not subtracted

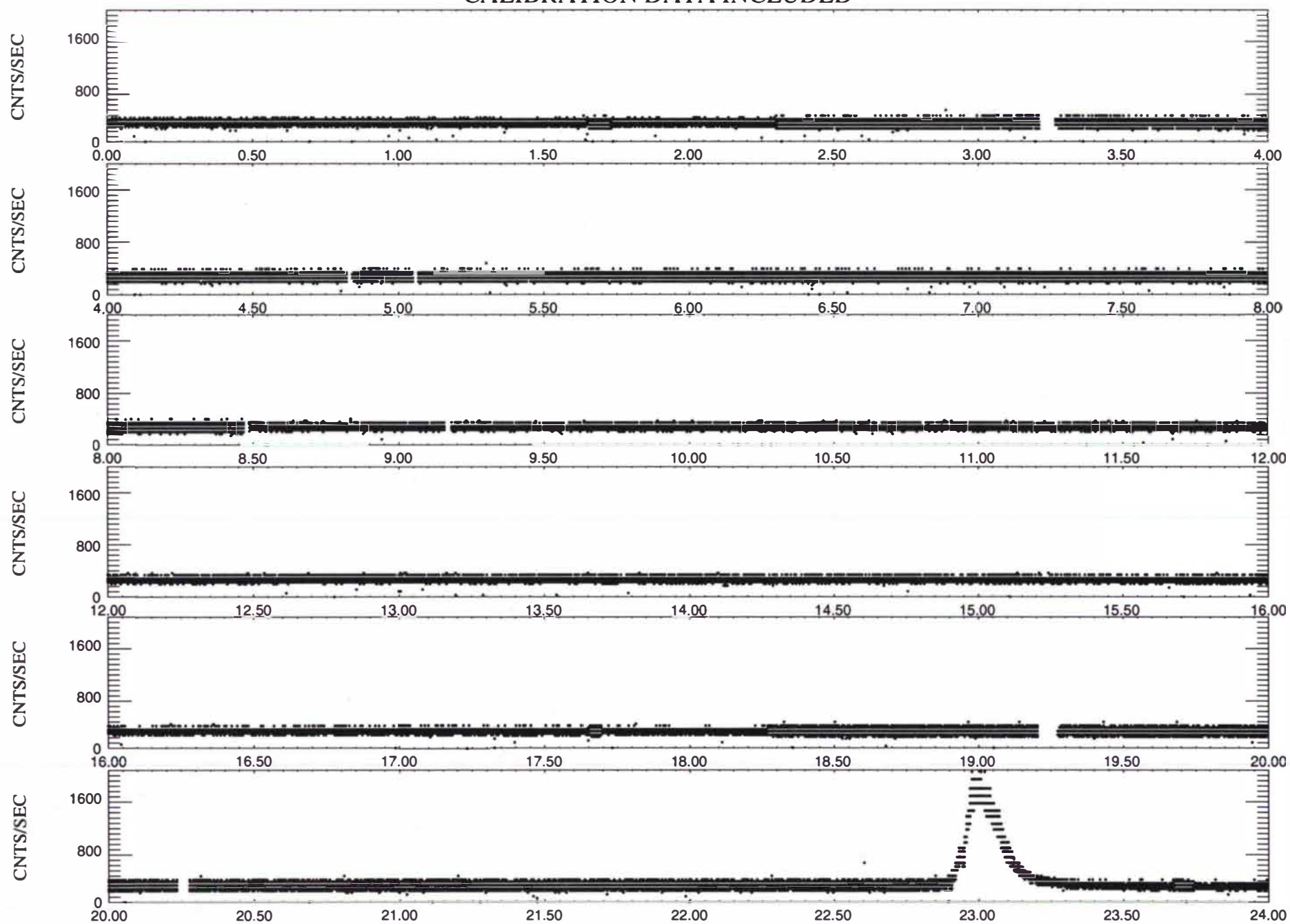
Plot created: 04/07/06, 0827

Sample average = 10

CBU	CCL	DMP	ROM	DMA	OSC	MP.	ICR	SPE	OPM	RSC	CAL	WCH	MEM	BRS	HUS
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

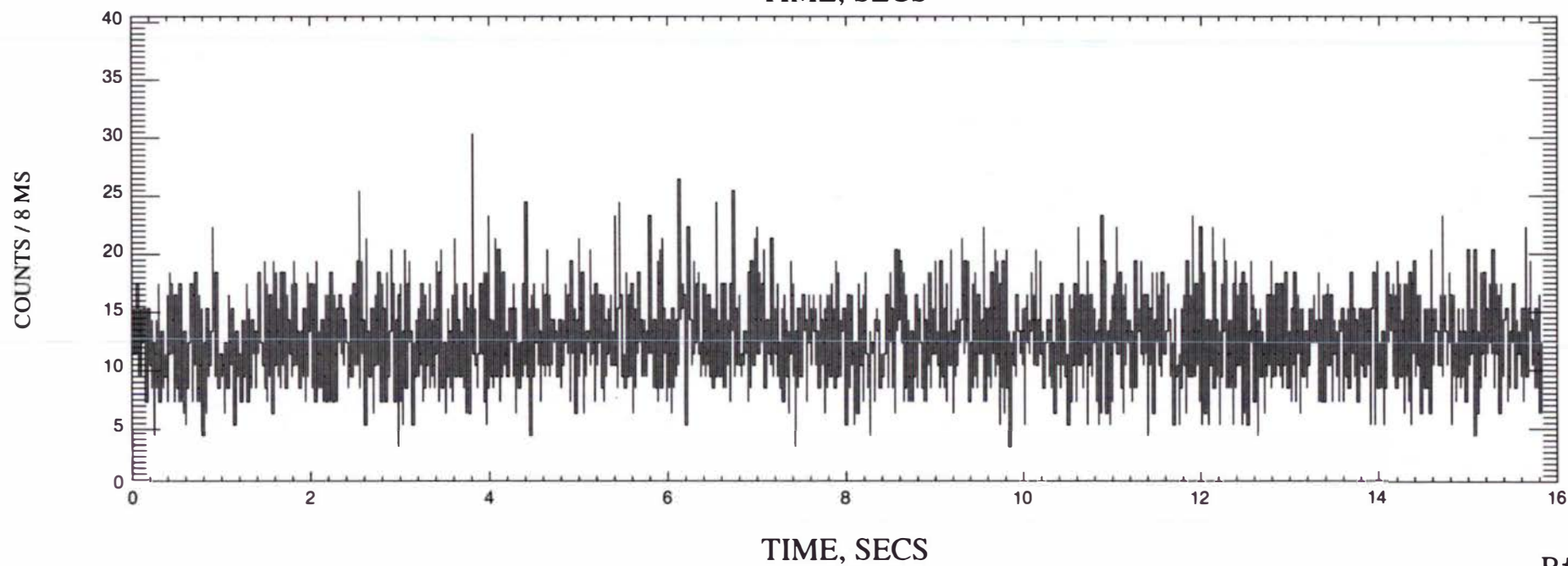
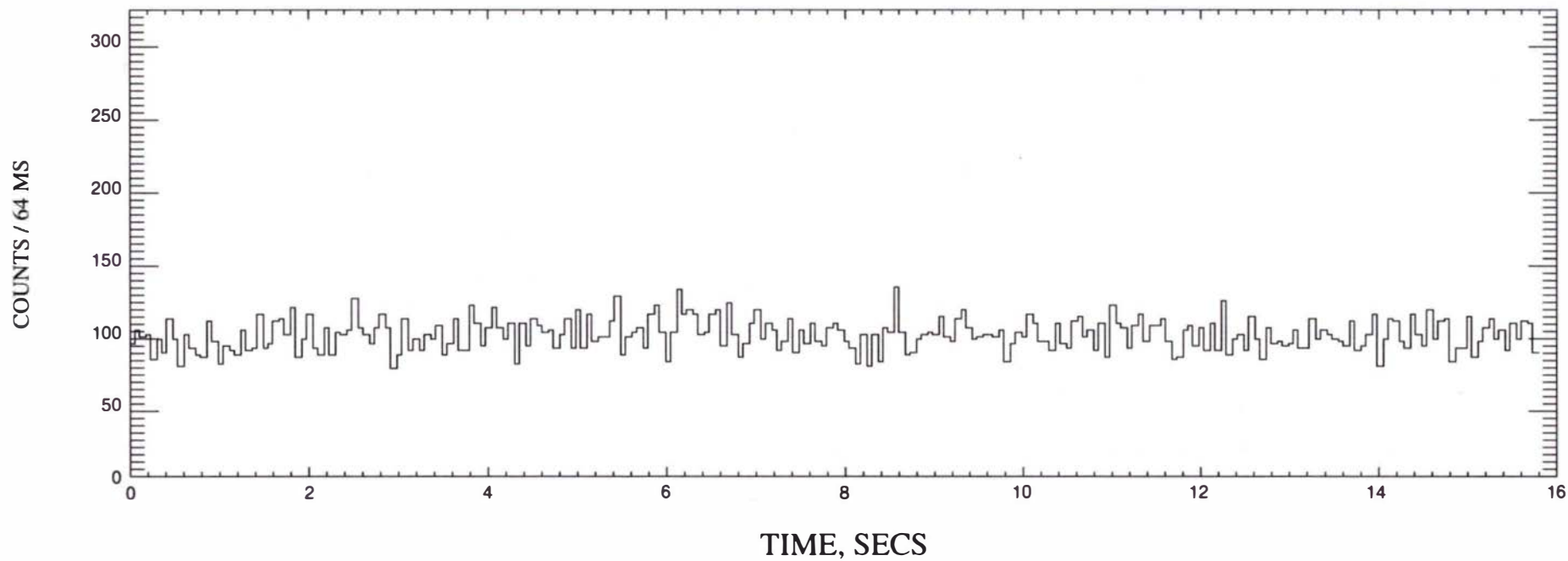


CALIBRATION DATA INCLUDED

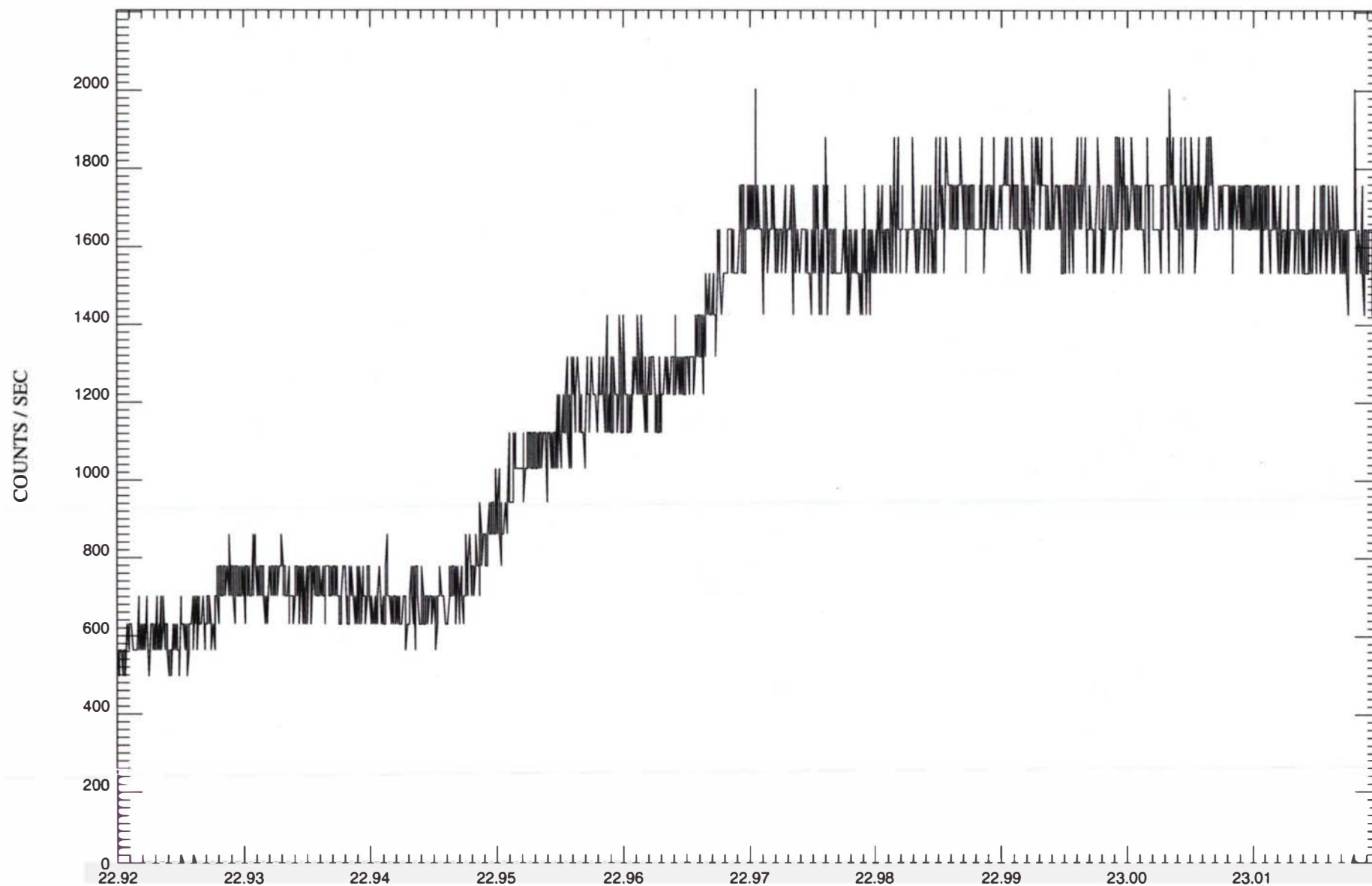


UNIVERSAL TIME

Burst Counter 1 at UT=22.969286460876 h=82689.431 s 22:58:09.431



CALIBRATION DATA INCLUDED



TEST 20040706 45600

ULYSSES RT

07/07/04

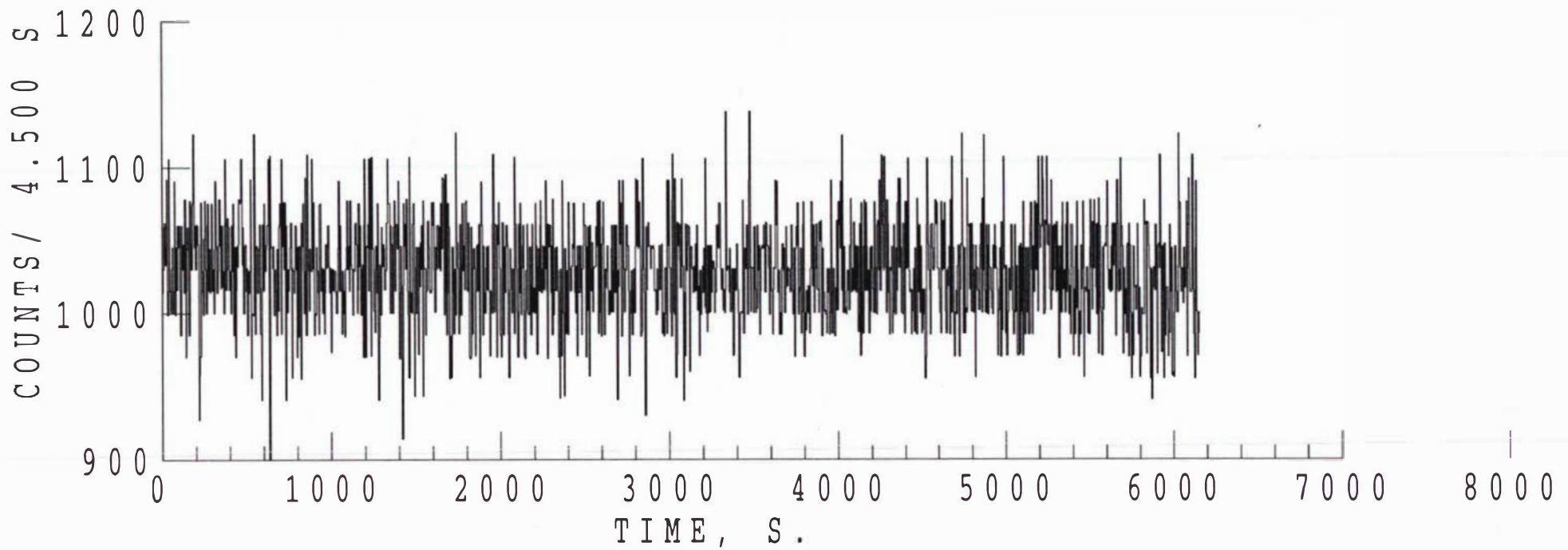
06/07/04 42516.266 s

0.500 S INTERVALS REGROUPED BY 9

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



TEST 20040706 51600

ULYSSES RT

07/07/04

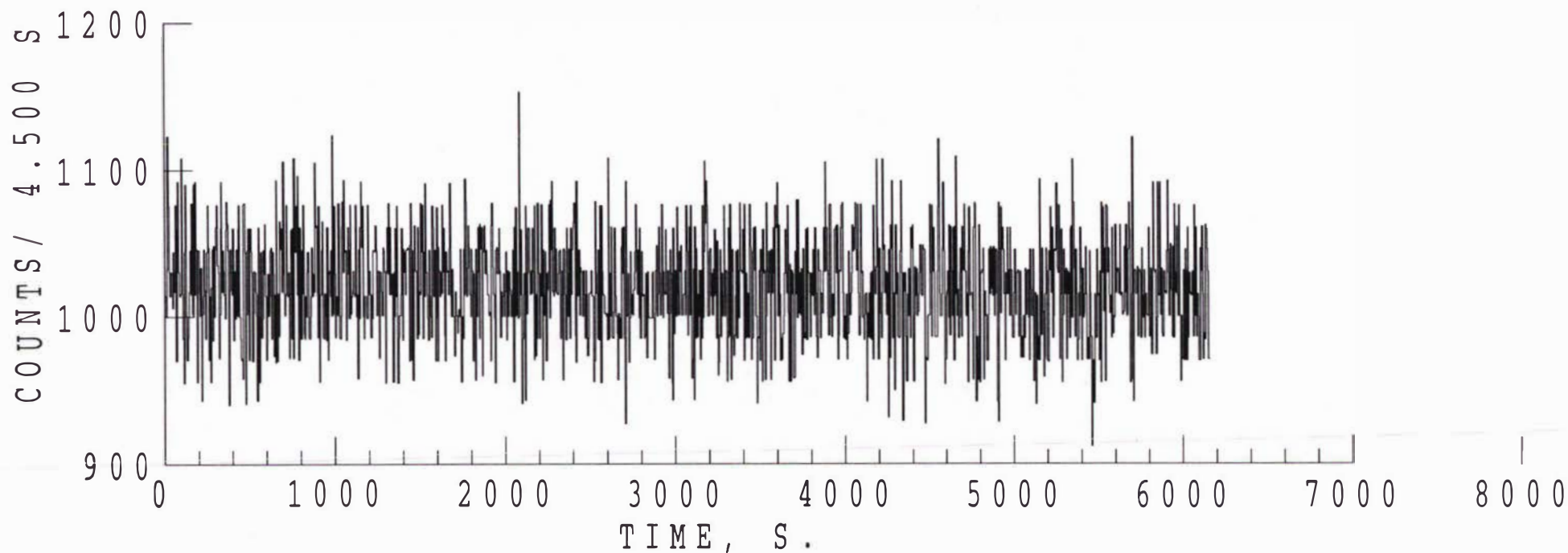
06/07/04 48528.305 s

0.500 S INTERVALS REGROUPED BY 9

0 - 0 keV

W= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

W= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



TEST 20040706 57600

ULYSSES RT

07/07/04

06/07/04 54540.352 s

0.500 S INTERVALS REGROUPED BY 9

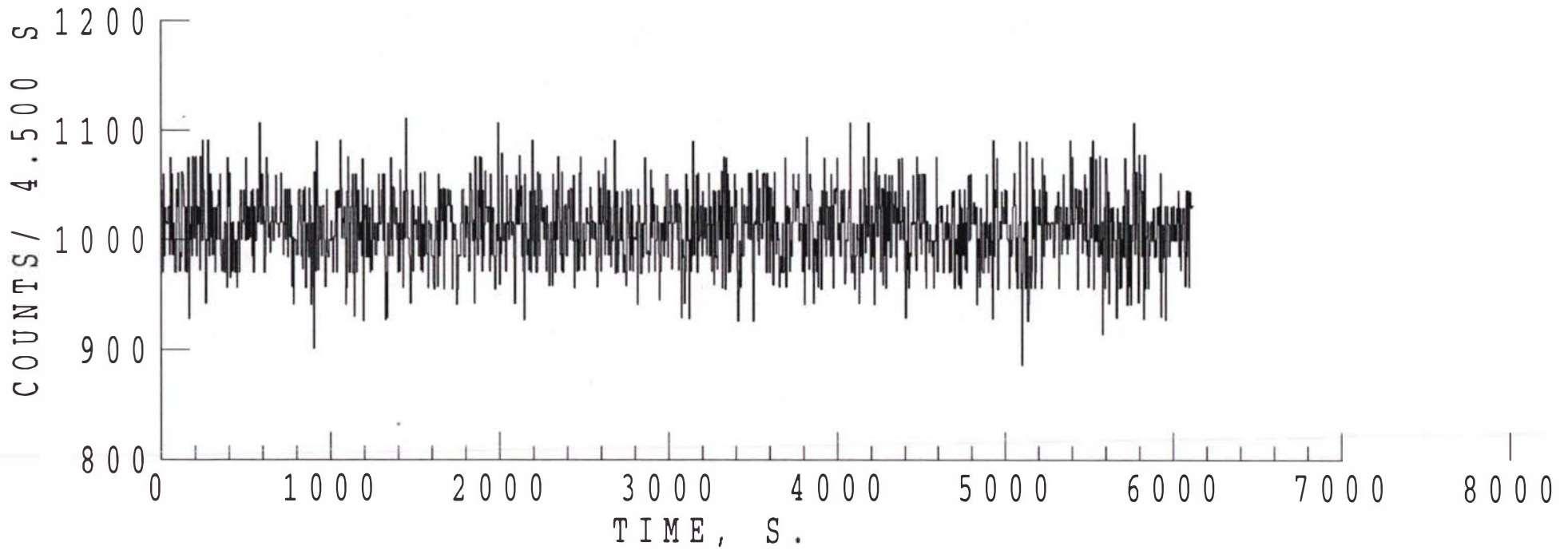
0 - 0 keV

N= 10 M= 10

>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



TEST 20040706 63600

ULYSSES RT

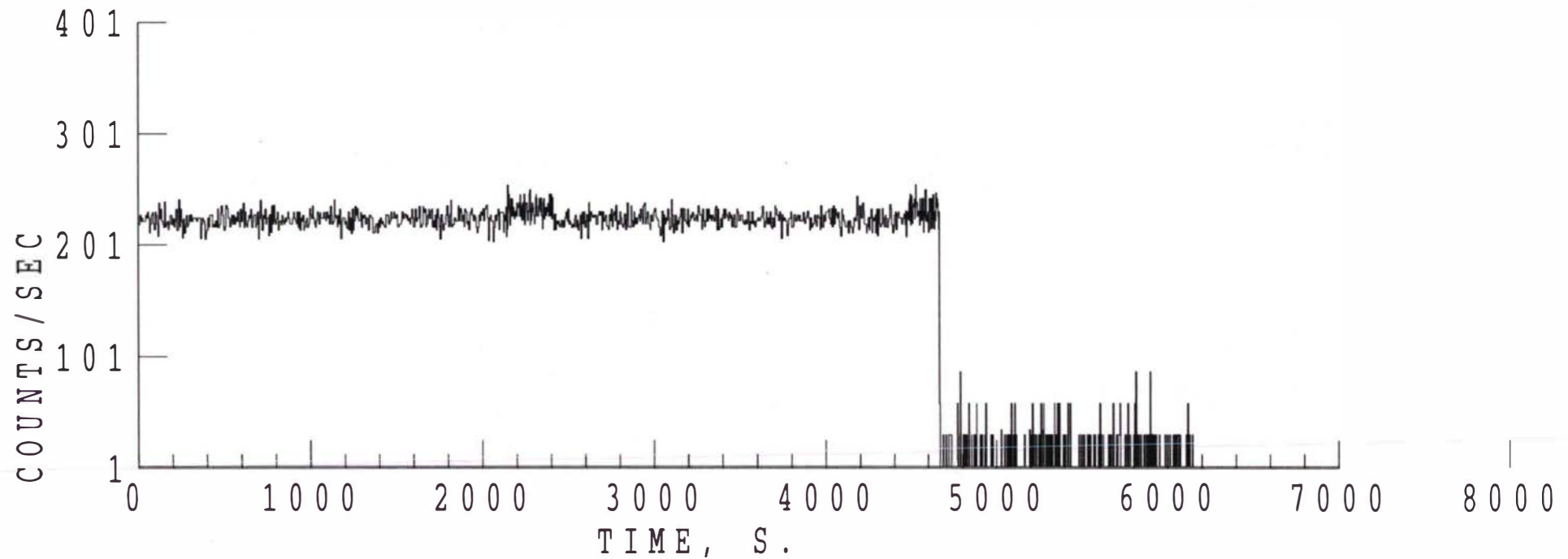
07/07/04

06/07/04 60516.395 s

INTERVALS REGROUPED BY 11

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From hops@space.mit.edu Tue Jul 6 12:31:38 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Tue, 6 Jul 2004 19:32:34 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Tue Jul 6 19:32:34 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13192 TJD; 188 DOY; 04/07/06
GRB_TIME: 65107.38 SOD {18:05:07.37} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20040706_65107)

BEG TIME: 06/07/04 DOY 188 Julian 2453194.25125 UT = 18.030 18:01:48 (64908.000 secs) [sct = 0019 9c36 d70e 3a93]
 END TIME: 06/07/04 DOY 188 Julian 2453194.25583 UT = 18.140 18:08:24 (65304.000 secs) [sct = 0019 9c36 eea8 b6e5]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

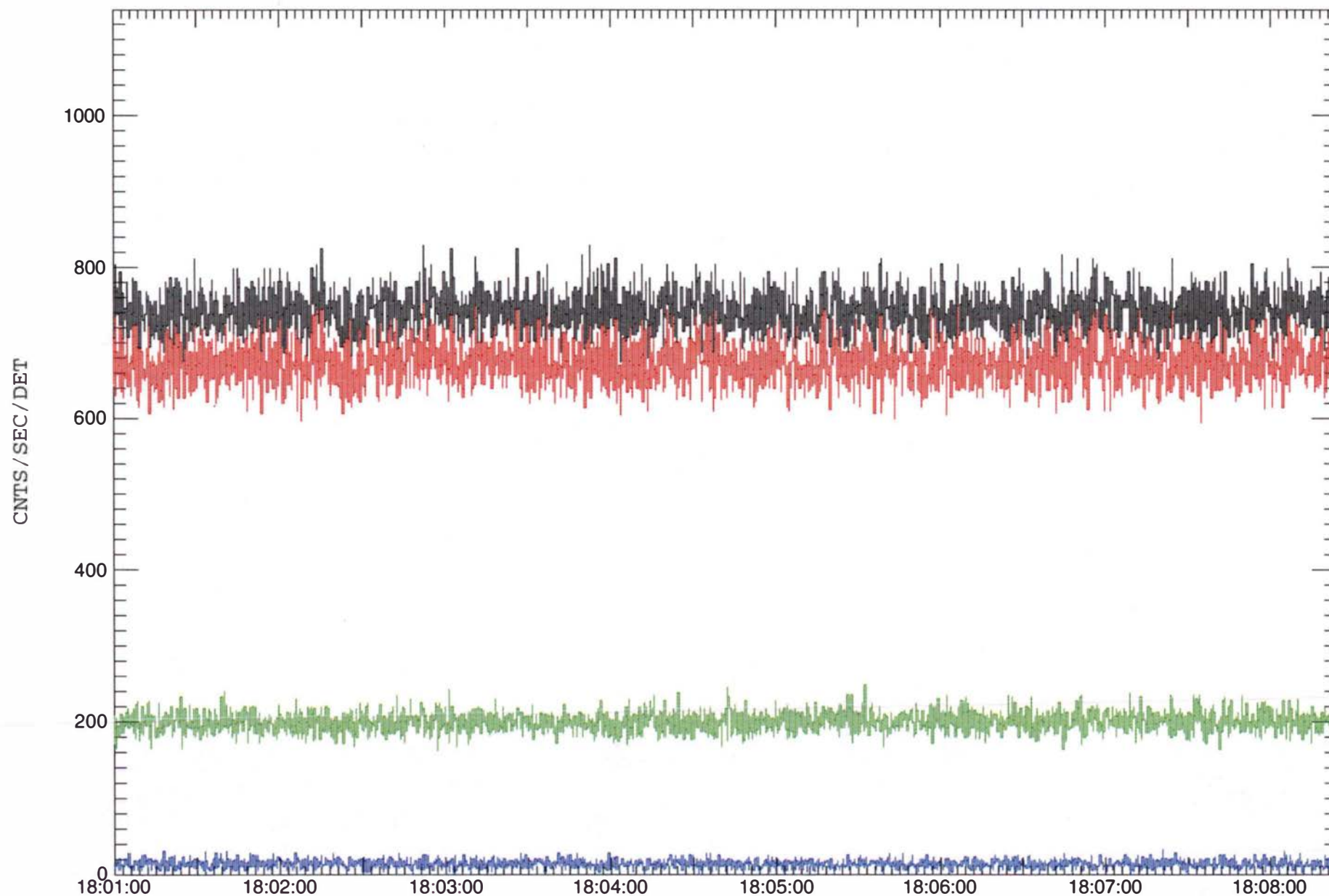
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



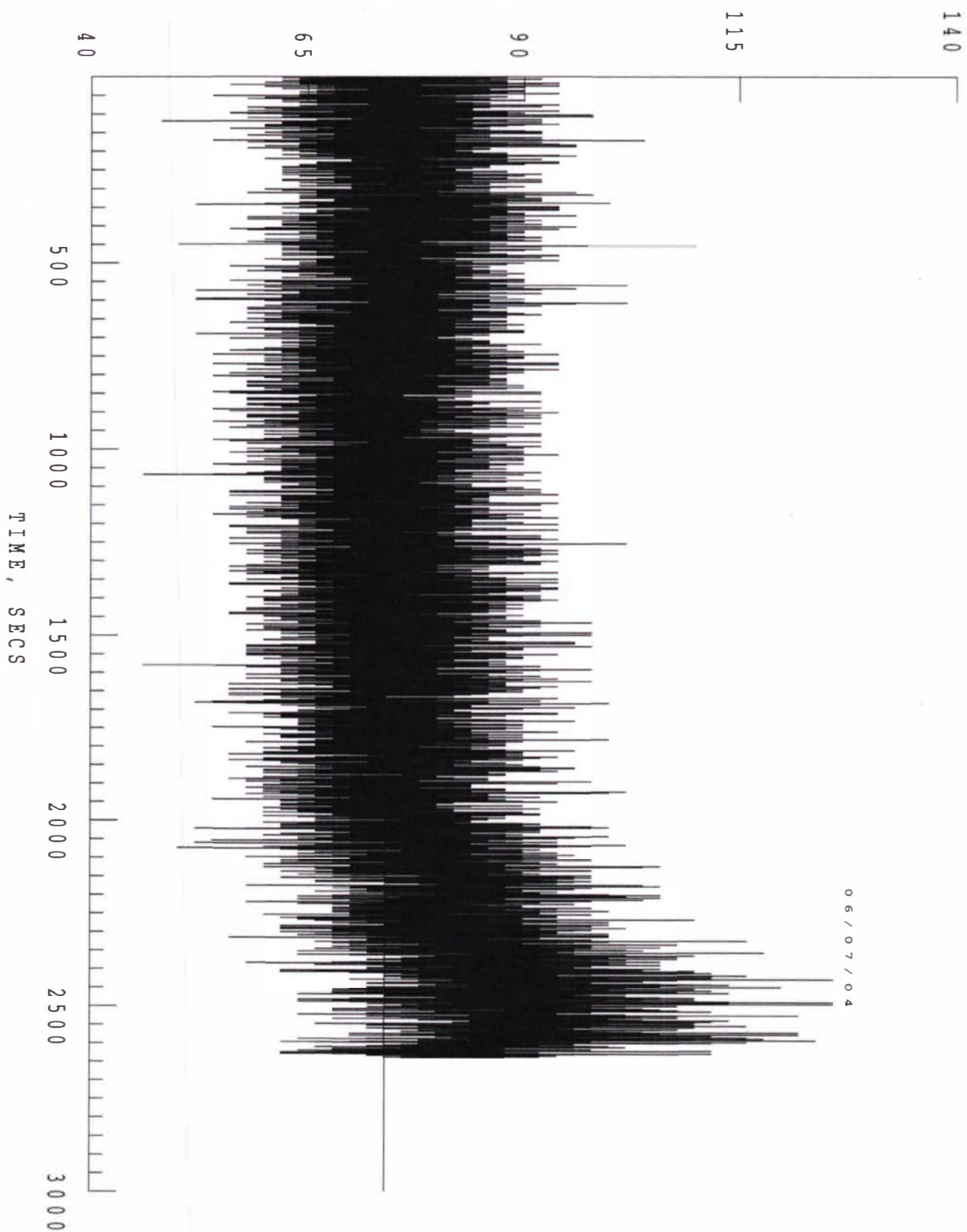
MS01

06/07/04

63777.922

50 - 3000 keV

COUNTS/0.250 S



From williams@sunspot.ssl.berkeley.edu Tue Jul 6 13:28:37 2004
Date: Tue, 6 Jul 2004 13:32:28 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_GHETE_9999_1_20040706_65107

HESSI 25 to 150 keV Counts
Created 6-Jul-2004 13:28:15.00
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

GHETE 9999 1 20040706 65107

ULYSSES RT

07/07/04

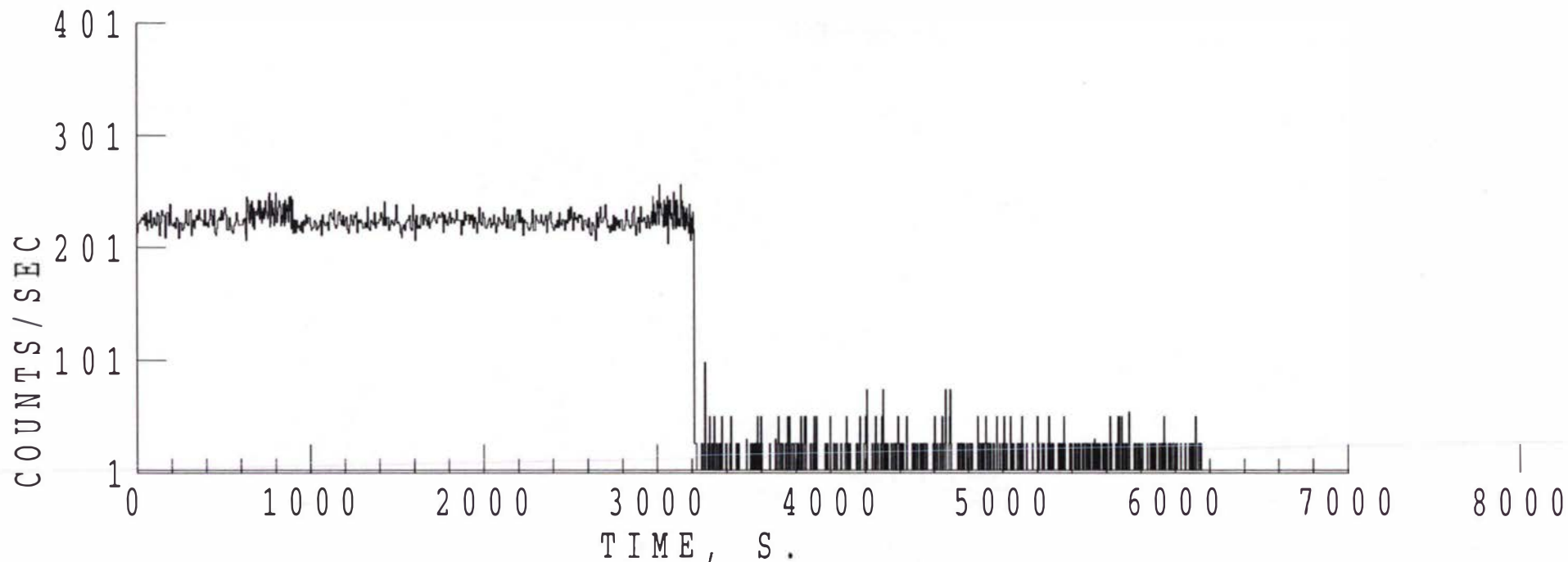
06/07/04 62028.406 s

INTERVALS REGROUPED BY 13

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



TEST 20040706 69600

ULYSSES RT

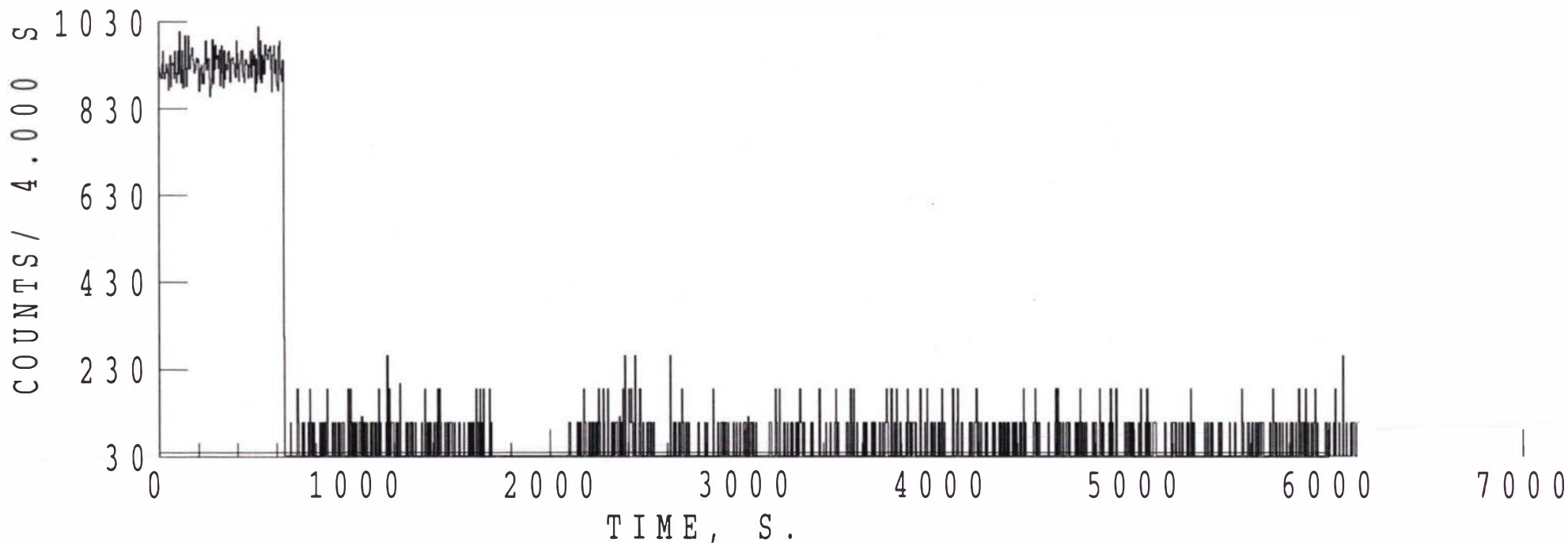
07/07/04

06/07/04 66528.195 s

0.250 S INTERVALS REGROUPED BY 16

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



TEST 20040706 75600

ULYSSES RT

07/07/04

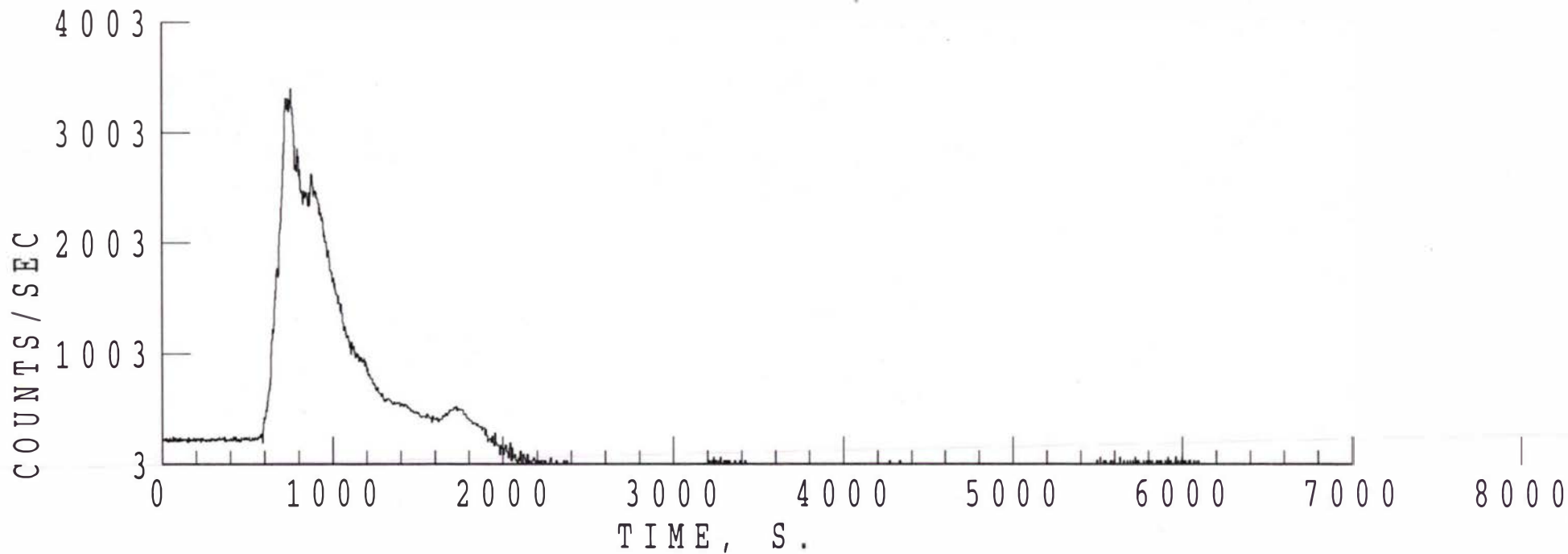
06/07/04 72540.242 s

INTERVALS REGROUPED BY 11

0 - 0 keV

M= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

M= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



TEST 20040706 81600

ULYSSES RT

07/07/04

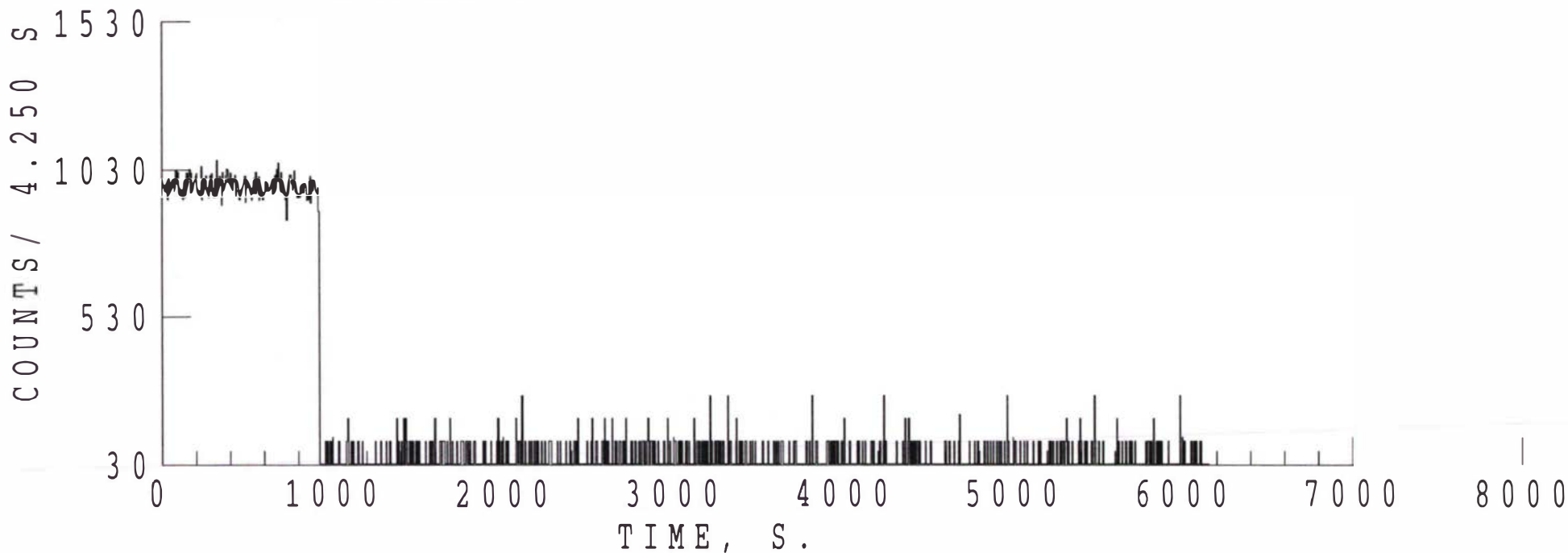
06/07/04 78516.031 s

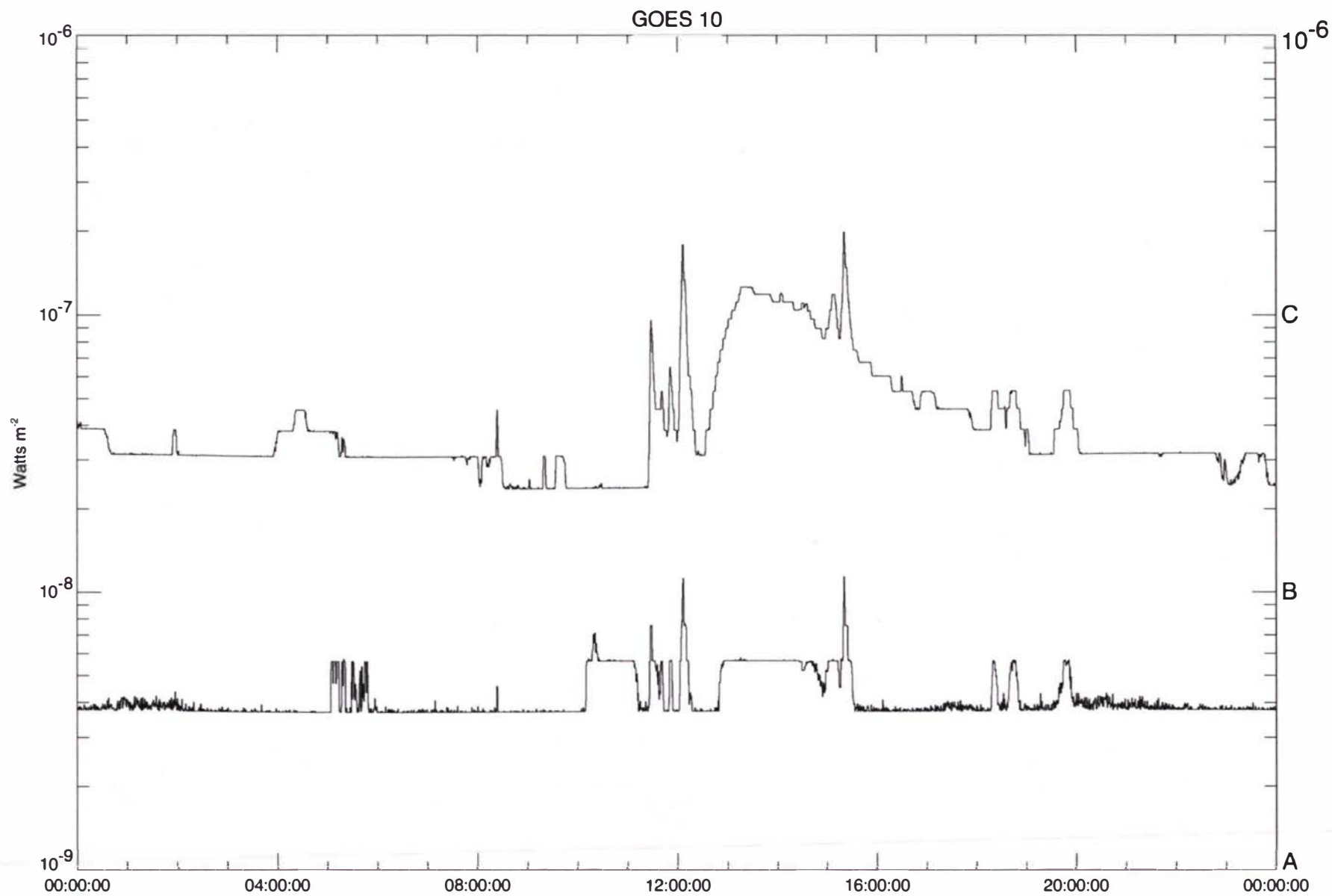
0.250 S INTERVALS REGROUPED BY 17

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

|| || || || || || || || || ||





Data Start: 04/07/06, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

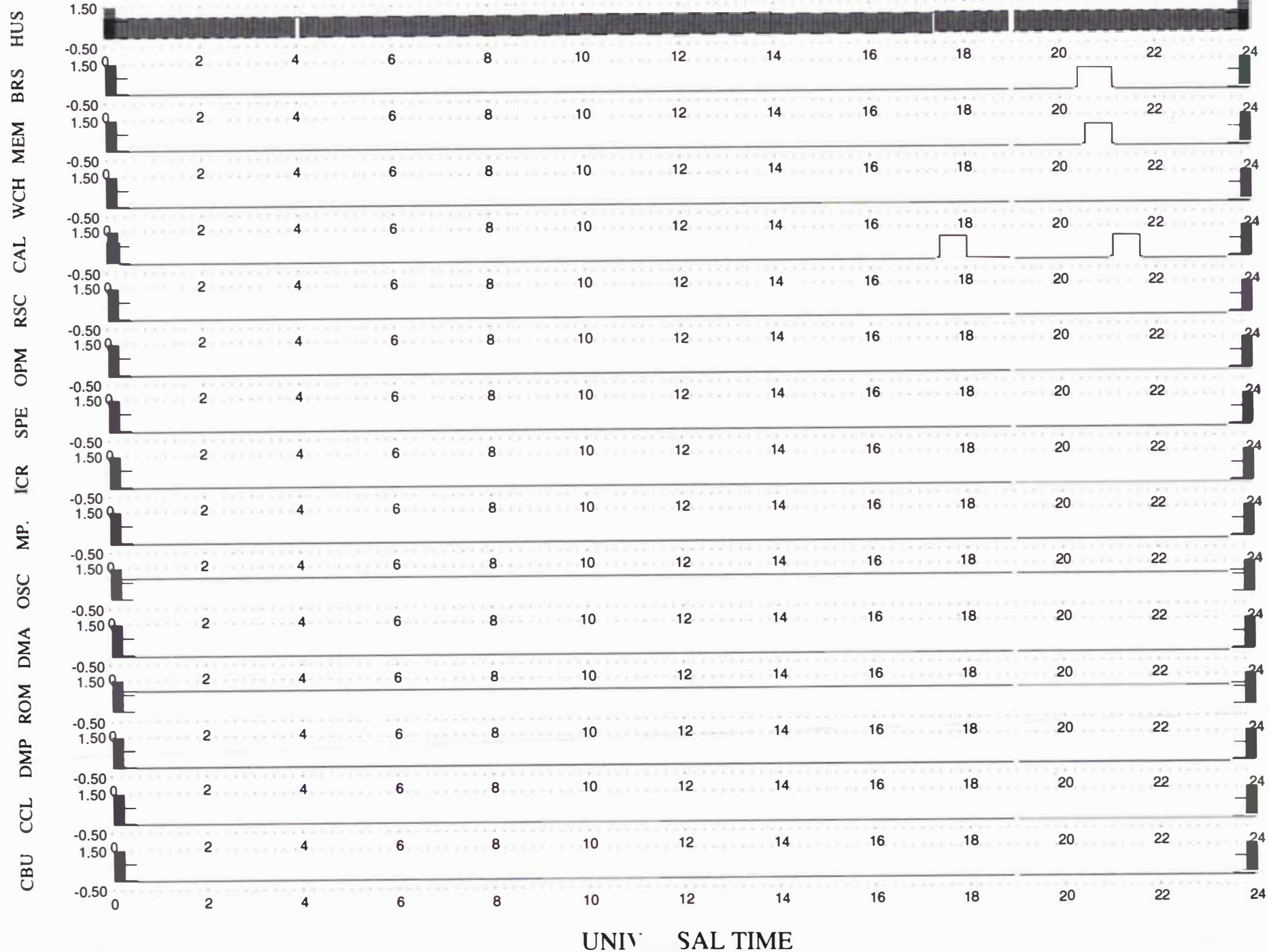
2 (0.5 - 4.0 Angstroms)

Background not subtracted

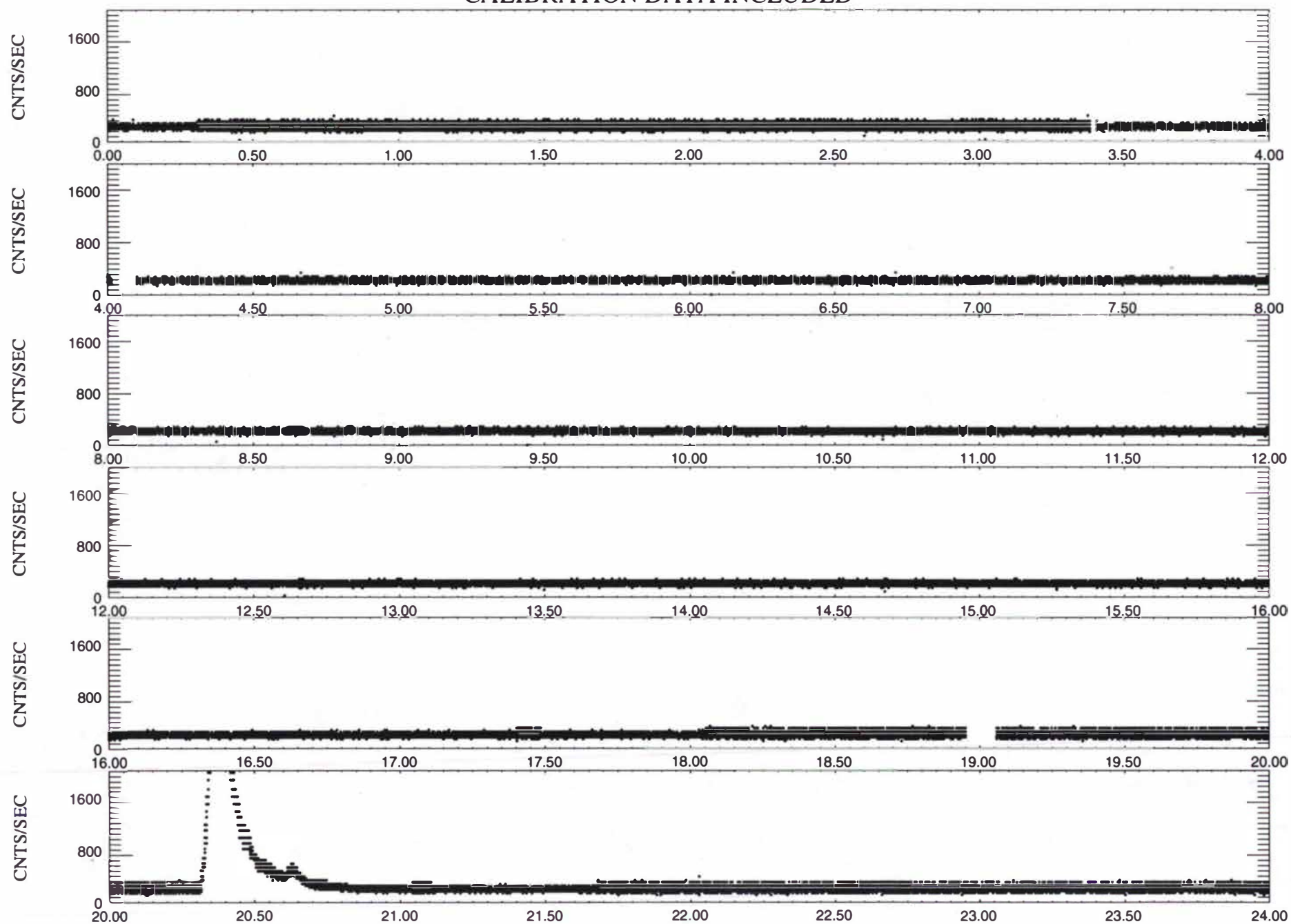
Plot created: 04/07/07, 0827

Sample average = 10

BURST NUMBER 2

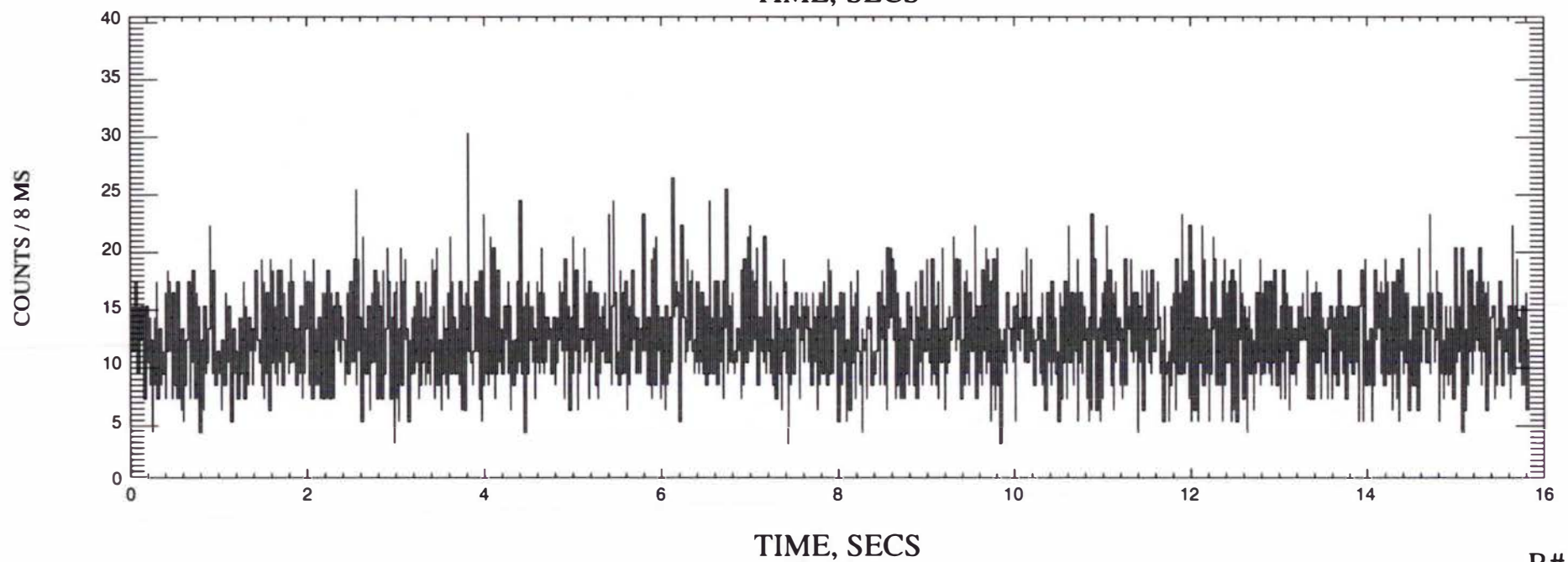
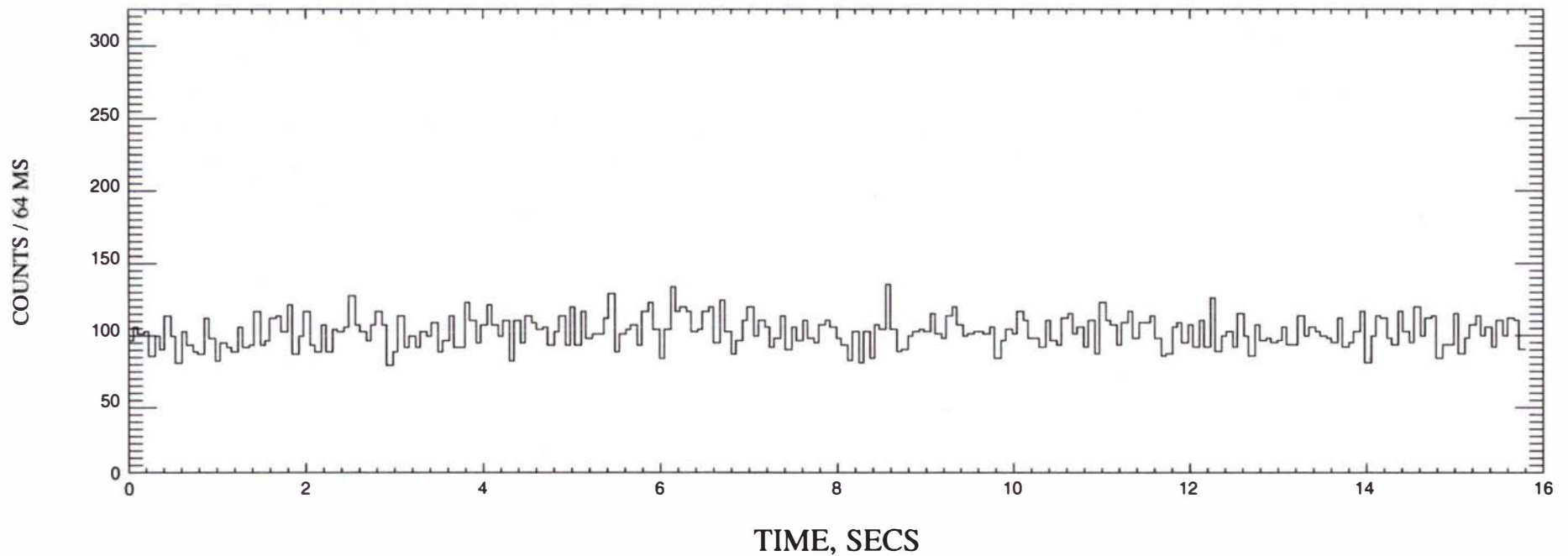


CALIBRATION DATA INCLUDED

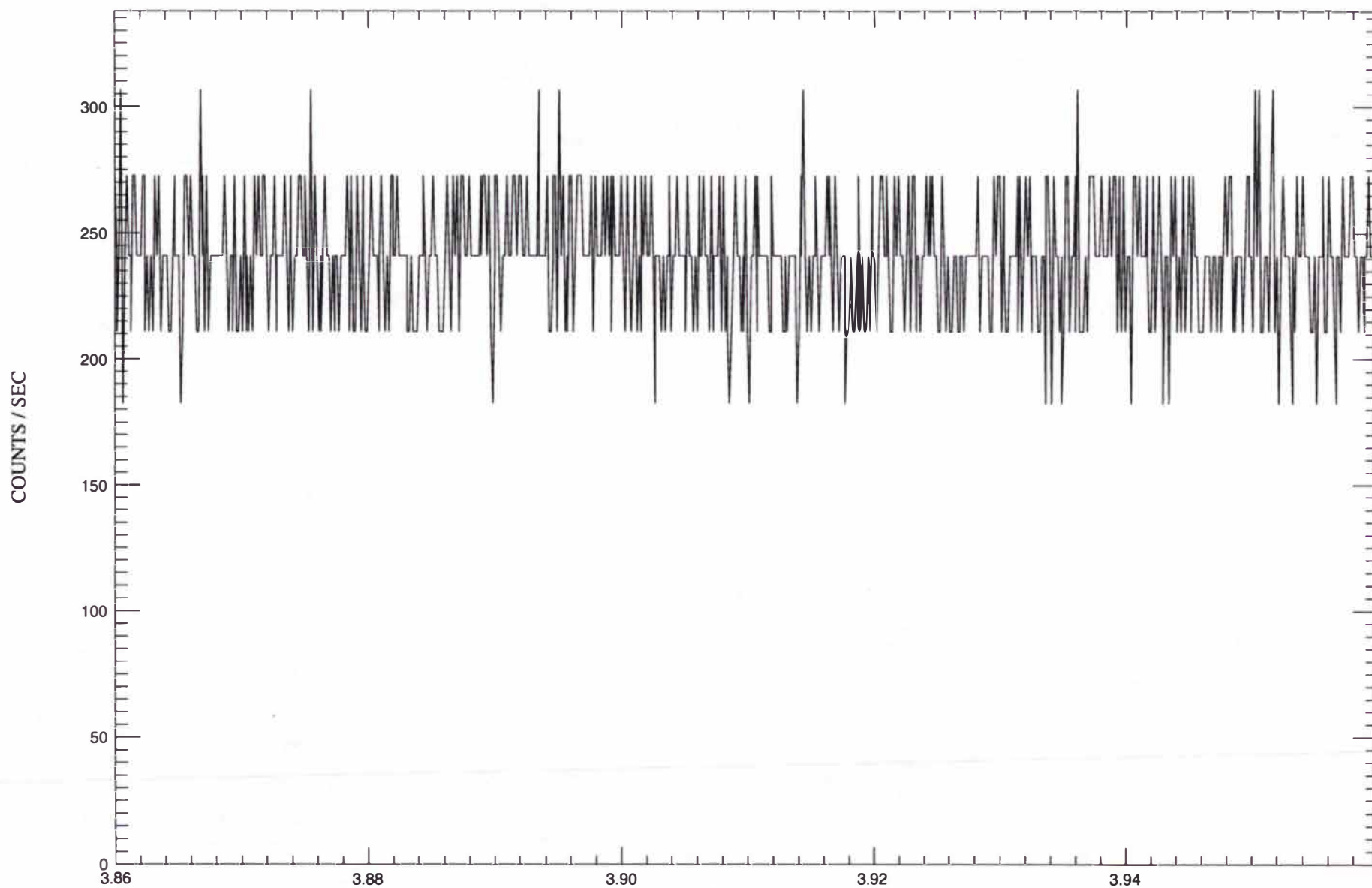


UNIVERSAL TIME

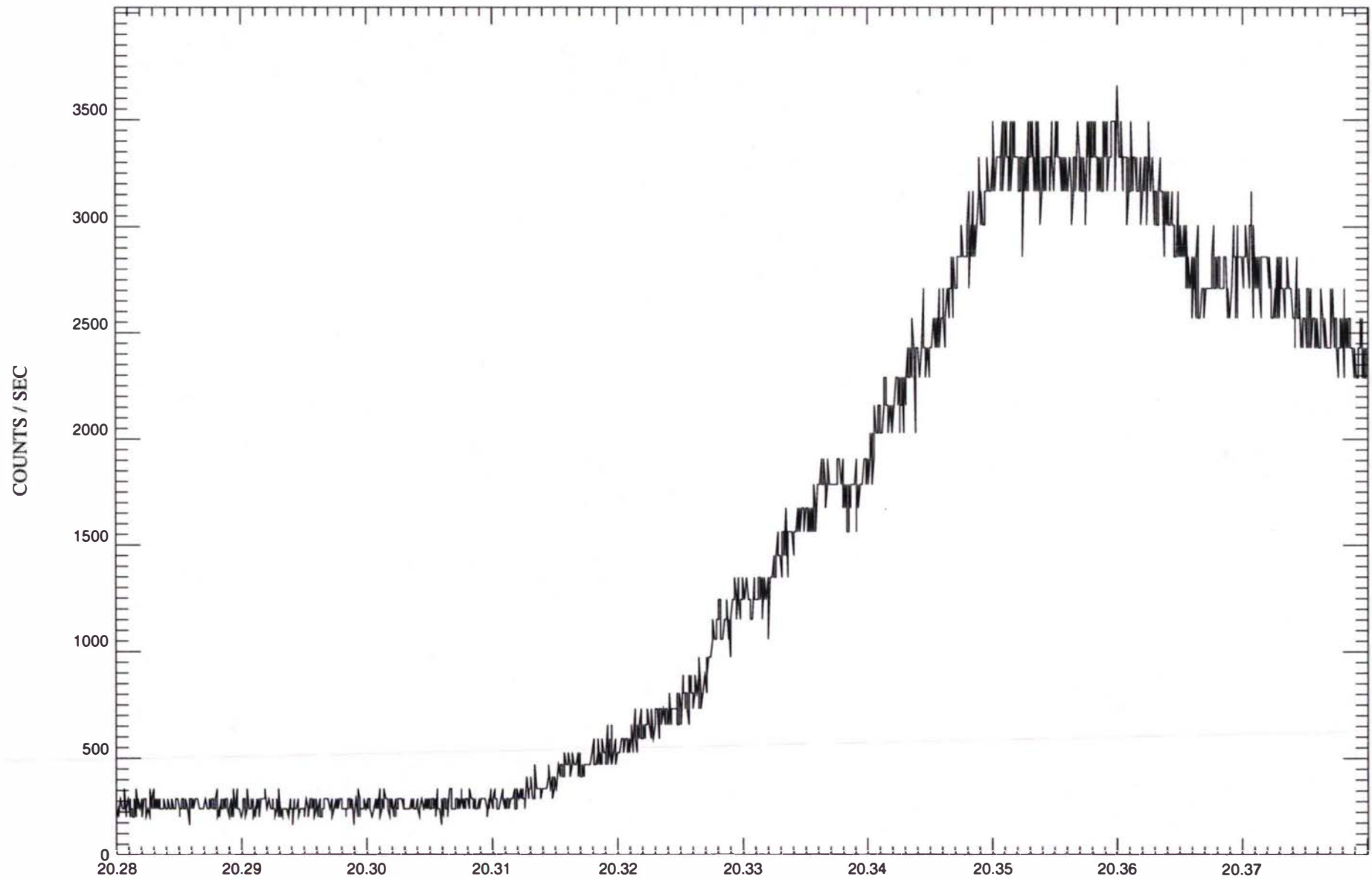
Burst Counter 1 at UT= 3.91154558506 h=14081.564 s 03:54:41.564



CALIBRATION DATA INCLUDED



CALIBRATION DATA INCLUDED



From hops@space.mit.edu Wed Jul 7 03:36:30 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Wed, 7 Jul 2004 10:37:26 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Wed Jul 7 10:37:26 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13193 TJD; 189 DOY; 04/07/07
GRB_TIME: 29935.38 SOD {08:18:55.38} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20040707_29935)

BEG TIME: 07/07/04 DOY 189 Julian 2453194.84417 UT = 08.260 08:15:36 (29736.000 secs) [sct = 0019 9c42 c47c 24c5]
 END TIME: 07/07/04 DOY 189 Julian 2453194.84875 UT = 08.370 08:22:11 (30132.000 secs) [sct = 0019 9c42 dc16 a118]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

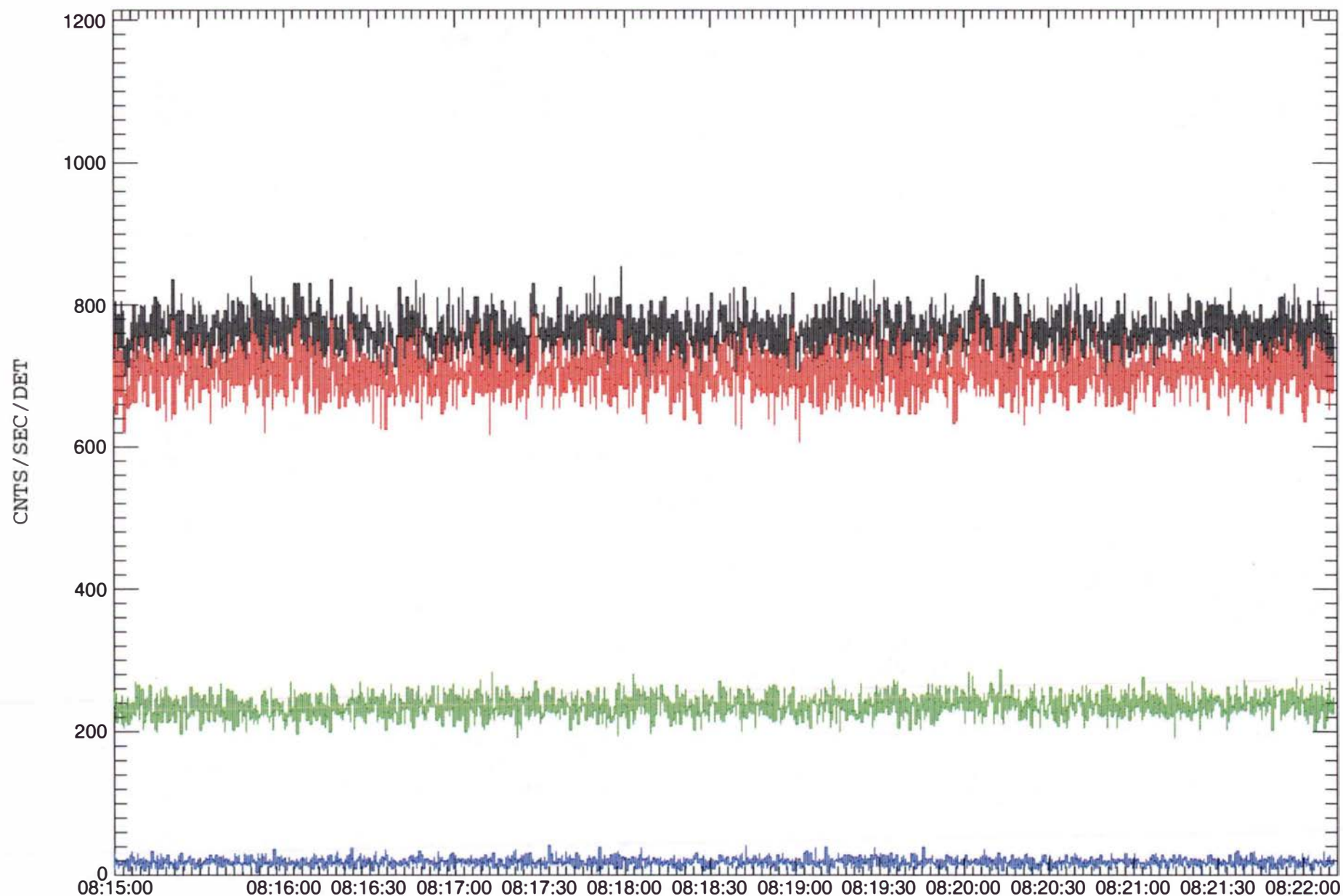
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

GHETE 9999 1 20040707 29935

ULYSSES RT

08/07/04

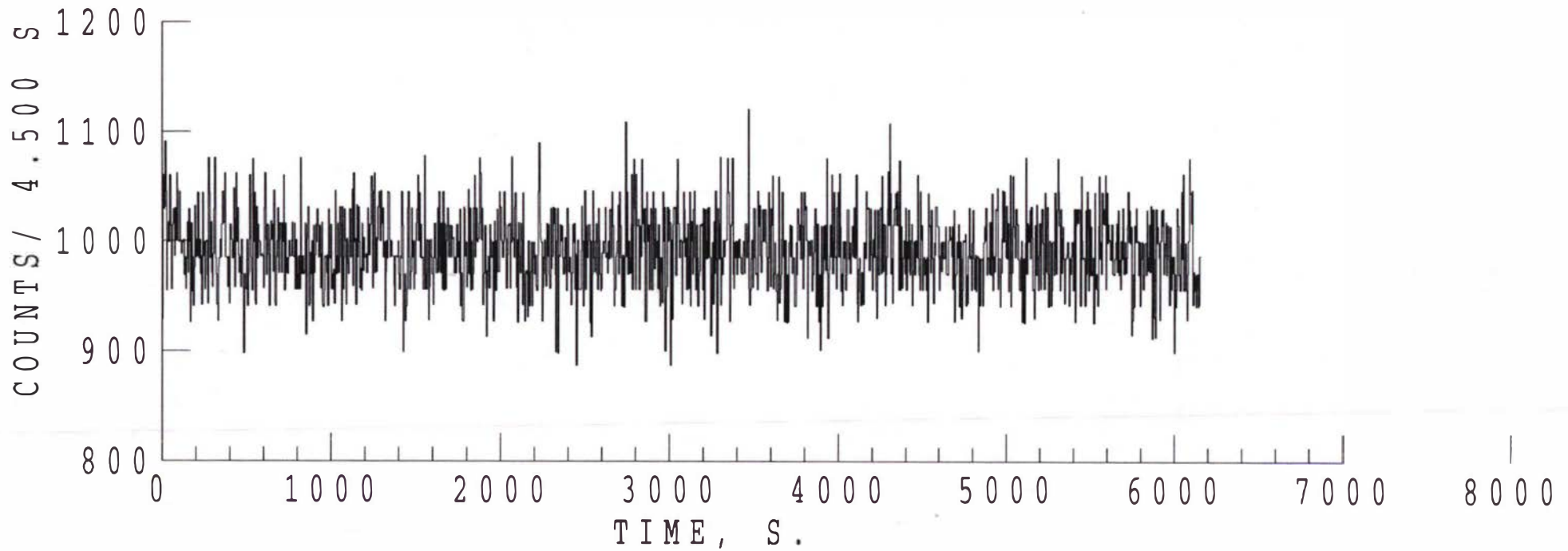
07/07/04 26856.283 s

0.500 S INTERVALS REGROUPED BY 9

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



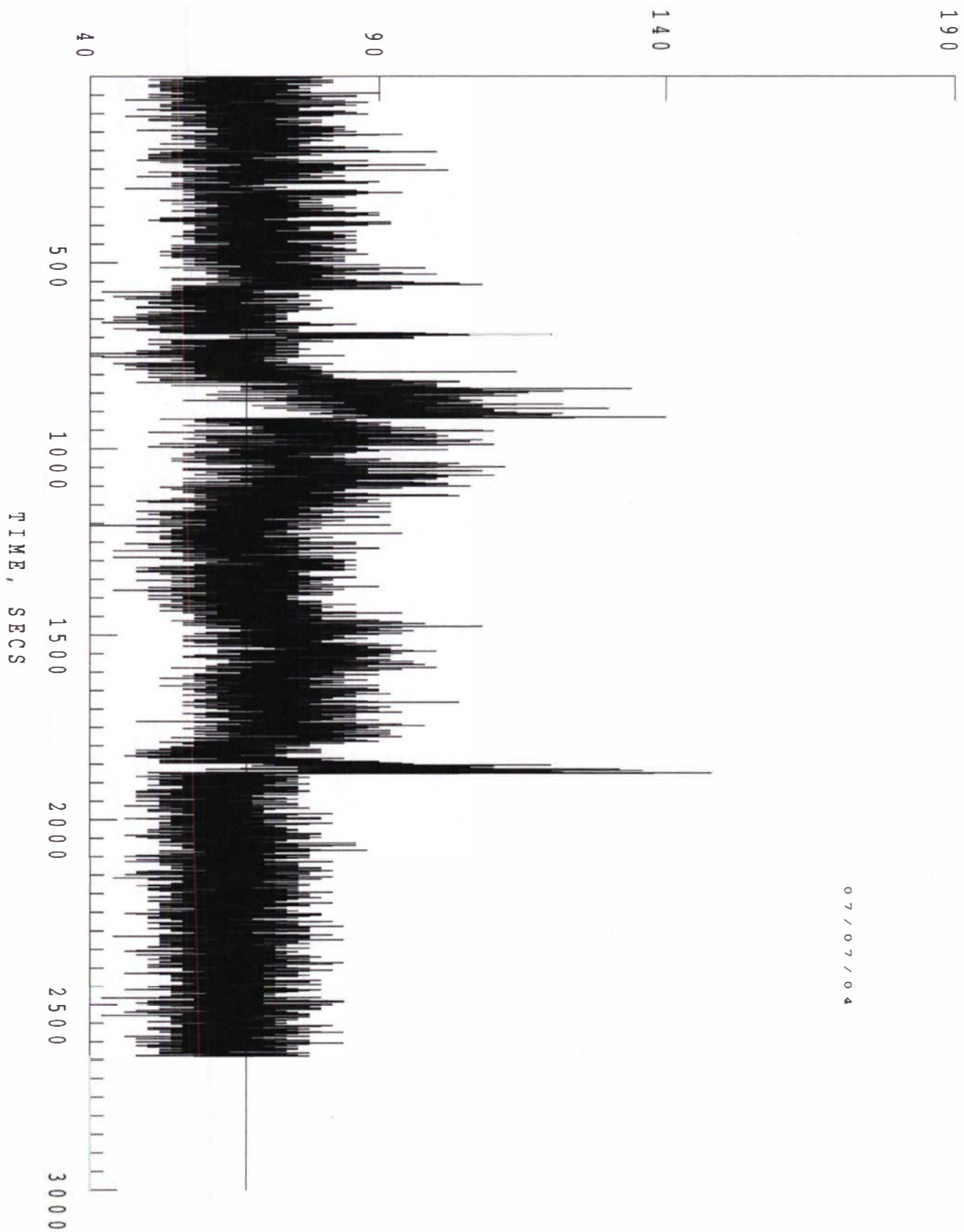
MS01

07/07/04

28616.990

50 - 3000 keV

COUNTS/0.250 S



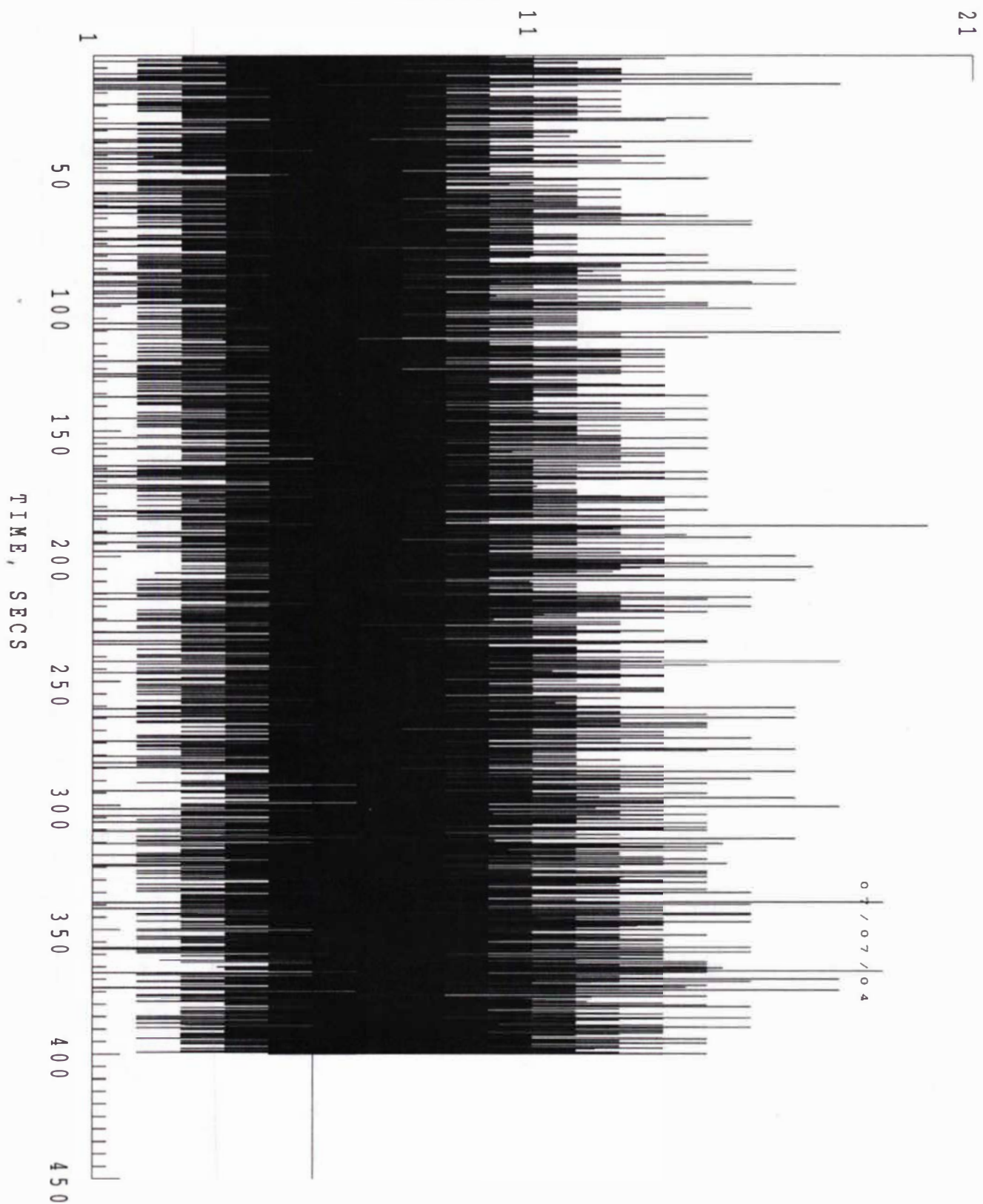
07/07/04

HESSI

07/07/04 29735.000 (GHETE_9999_1_20040707_29935)

25- 150 keV

COUNTS/0.031 S



From hops@space.mit.edu Wed Jul 7 02:15:23 2004
Date: Wed, 7 Jul 2004 05:16:21 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
>: khurley@sunspot.ssl.berkeley.edu
Subject: Trigger Notice to IPN

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Wed Jul 7 09:15:00 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13193 TJD; 189 DOY; 04/07/07
GRB_TIME: 31867.46 SOD {08:51:07.46} 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 SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20040707_31867)

BEG TIME: 07/07/04 DOY 189 Julian 2453194.86667 UT = 08.800 08:48:00 (31680.000 secs) [sct = 0019 9c43 385b 4143]
 END TIME: 07/07/04 DOY 189 Julian 2453194.87125 UT = 08.910 08:54:36 (32076.000 secs) [sct = 0019 9c43 4ff5 bd97]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

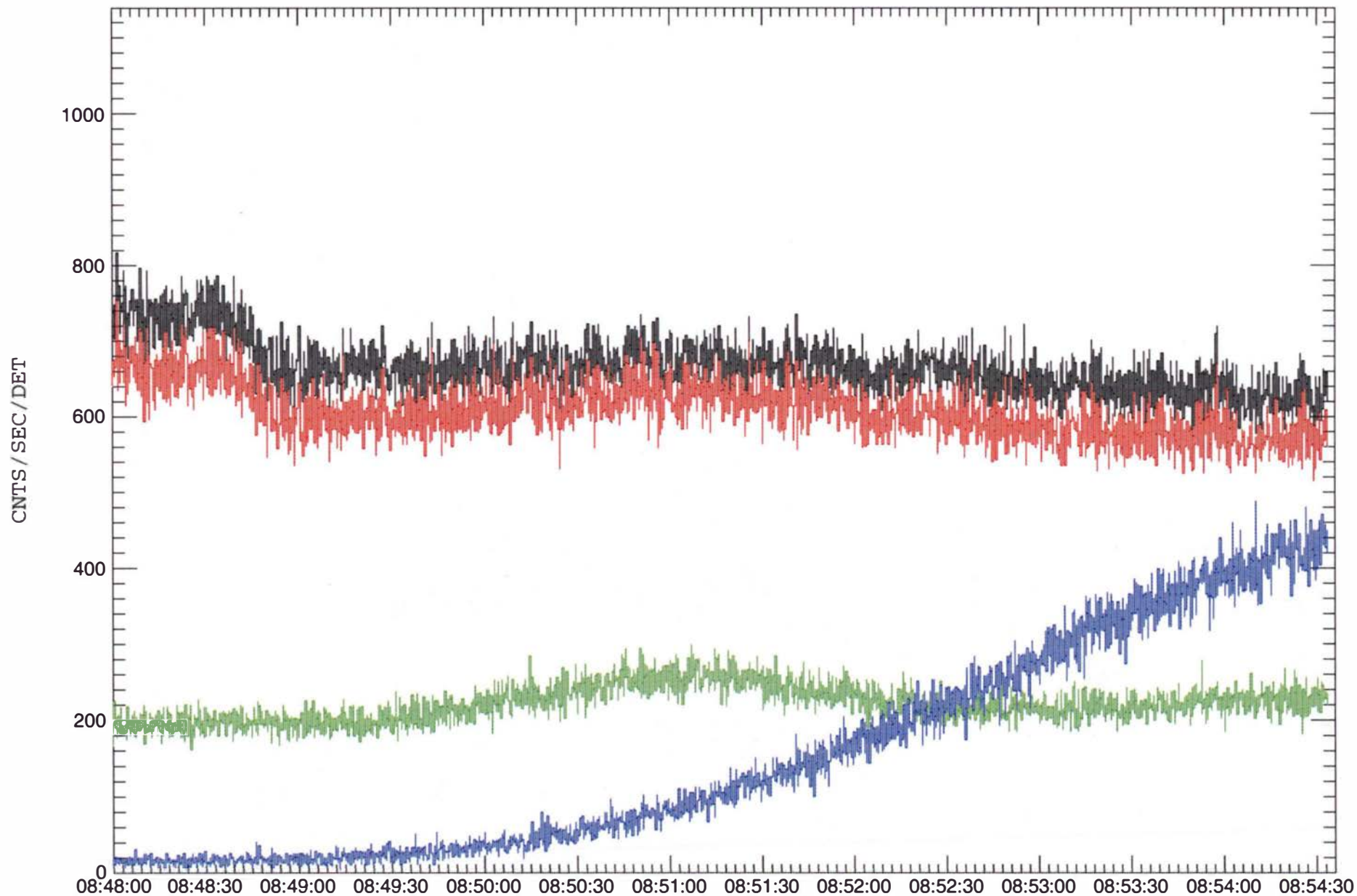
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

GHETE 9999 1 20040707 31867

ULYSSES RT

08/07/04

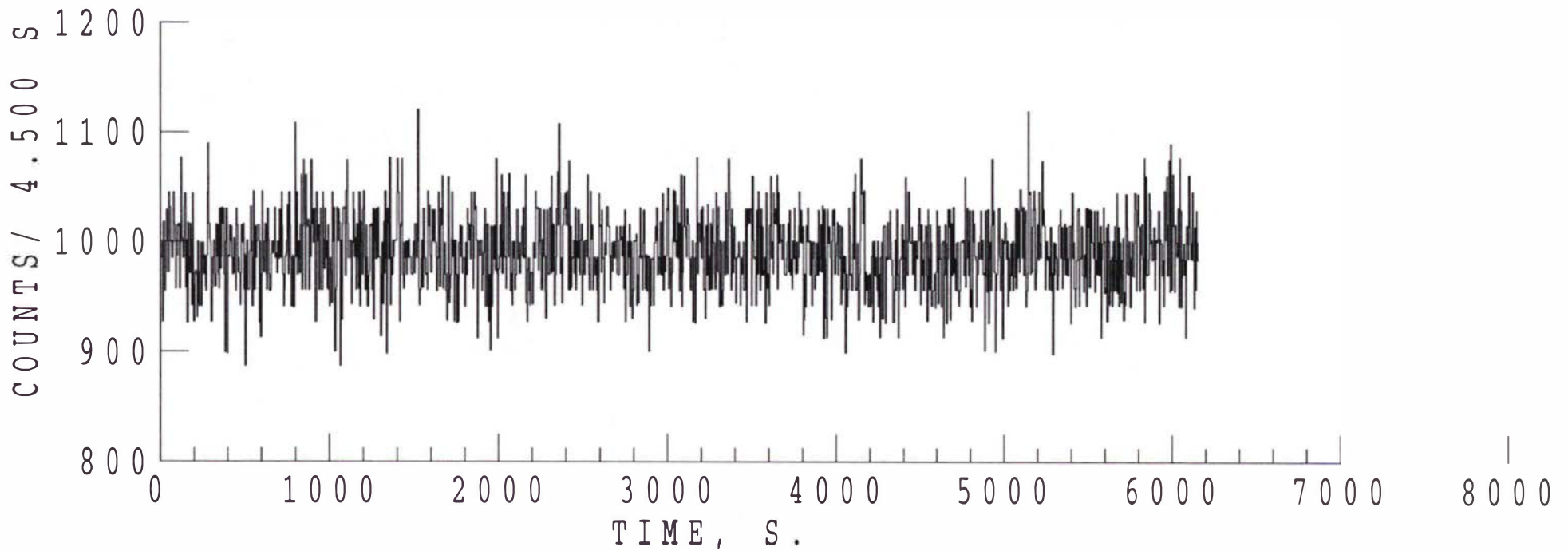
07/07/04 28800.301 s

0.500 S INTERVALS REGROUPED BY 9

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



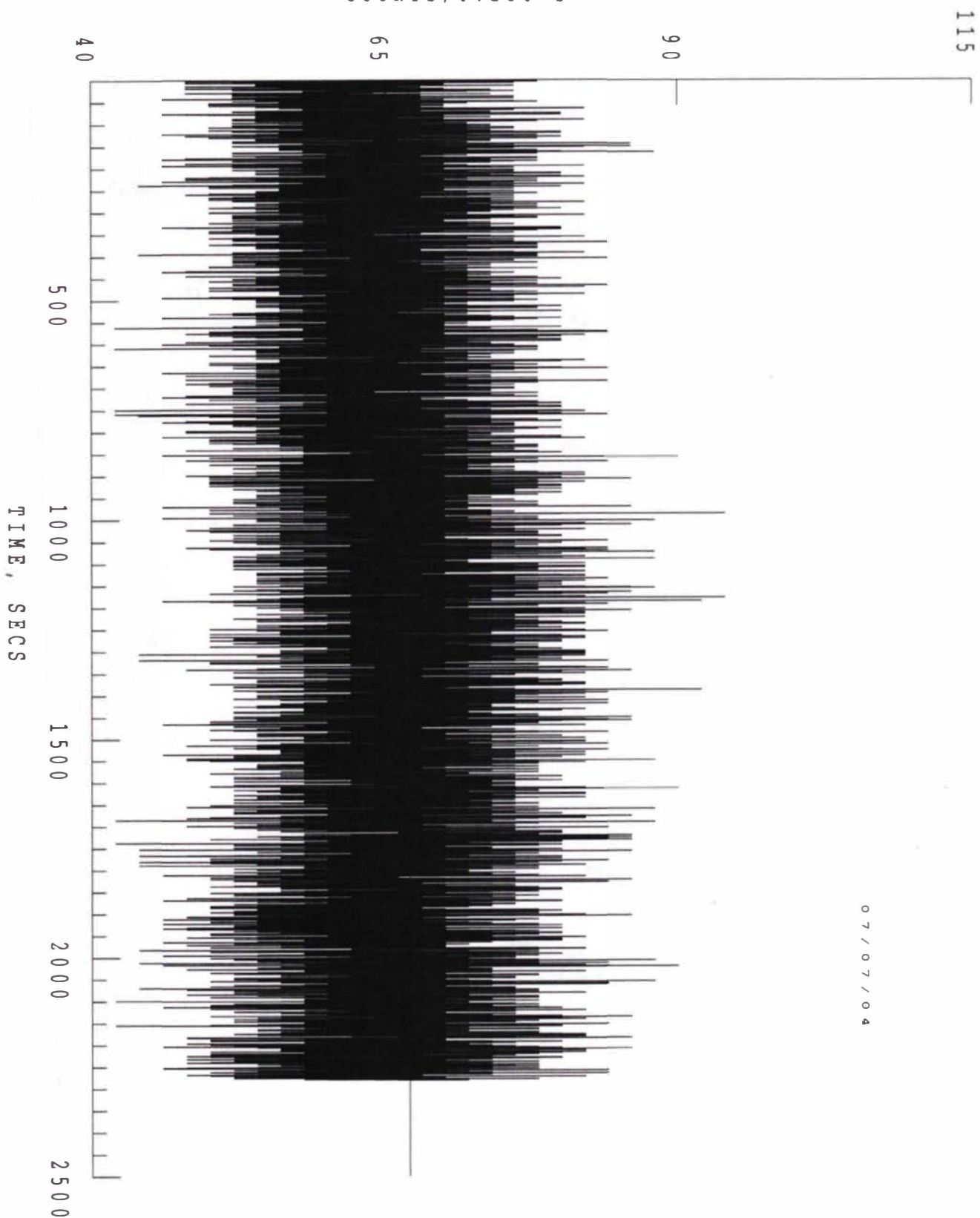
MS01

07/07/04

30536.946

50 - 3000 keV

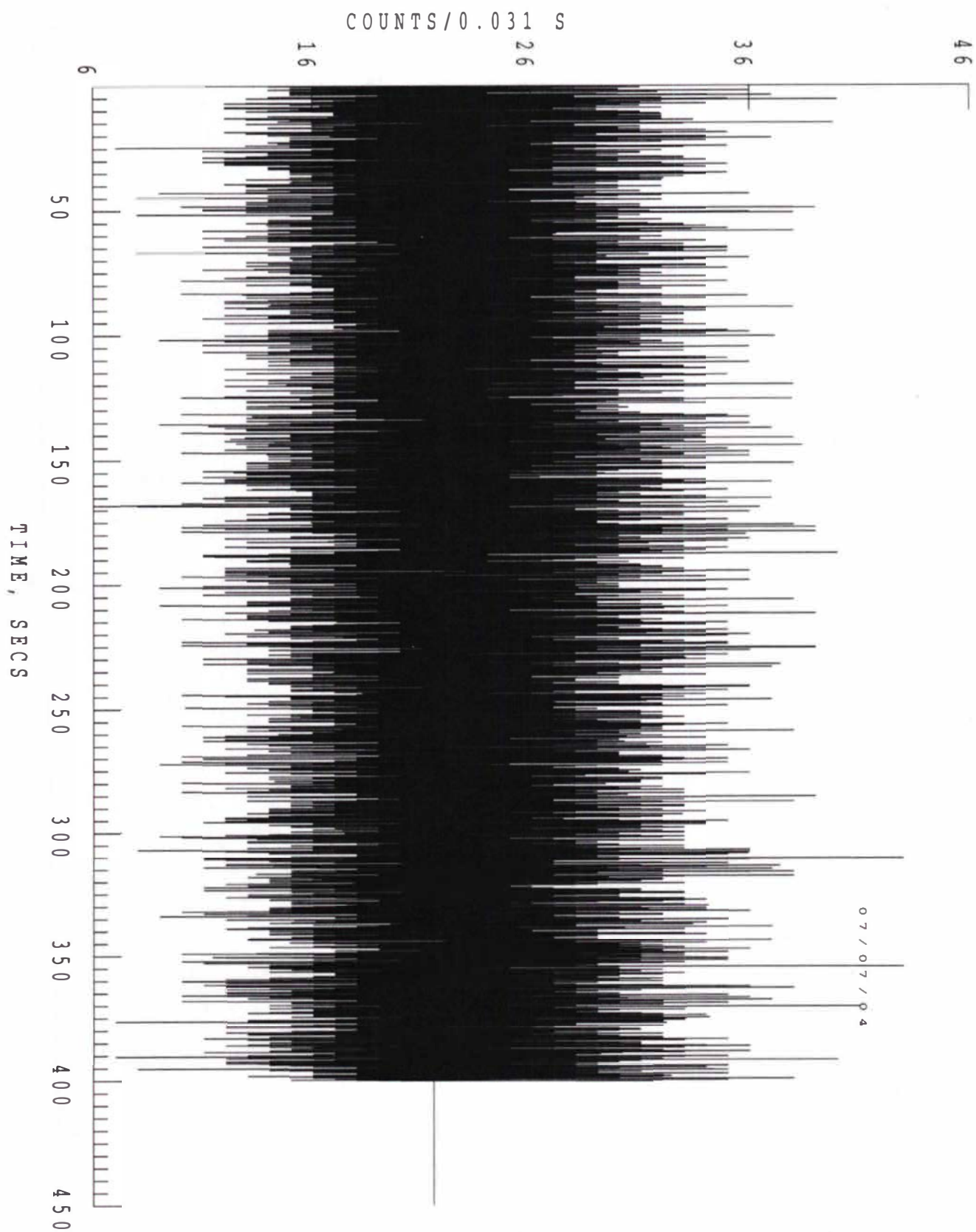
COUNTS/0.250 S



HESSI

07/07/04 31667.000 (GHETE_9999_1_20040707_31867)

25- 150 keV



From hops@space.mit.edu Thu Jul 8 13:37:56 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Thu, 8 Jul 2004 20:38:43 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www . canit . ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Thu Jul 8 20:38:43 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13194 TJD; 190 DOY; 04/07/08
GRB_TIME: 55143.32 SOD {15:19:03.31} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

From hops@space.mit.edu Wed Jul 7 17:14:41 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Thu, 8 Jul 2004 00:15:29 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www . canit . ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Thu Jul 8 00:15:29 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13193 TJD; 189 DOY; 04/07/07
GRB_TIME: 76613.26 SOD {21:16:53.26} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20040707_76613)

BEG TIME: 07/07/04 DOY 189 Julian 2453195.38458 UT = 21.230 21:13:48 (76428.000 secs) [sct = 0019 9c4d a38c 21cd]
 END TIME: 07/07/04 DOY 189 Julian 2453195.38917 UT = 21.340 21:20:24 (76824.000 secs) [sct = 0019 9c4d bb26 9e20]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

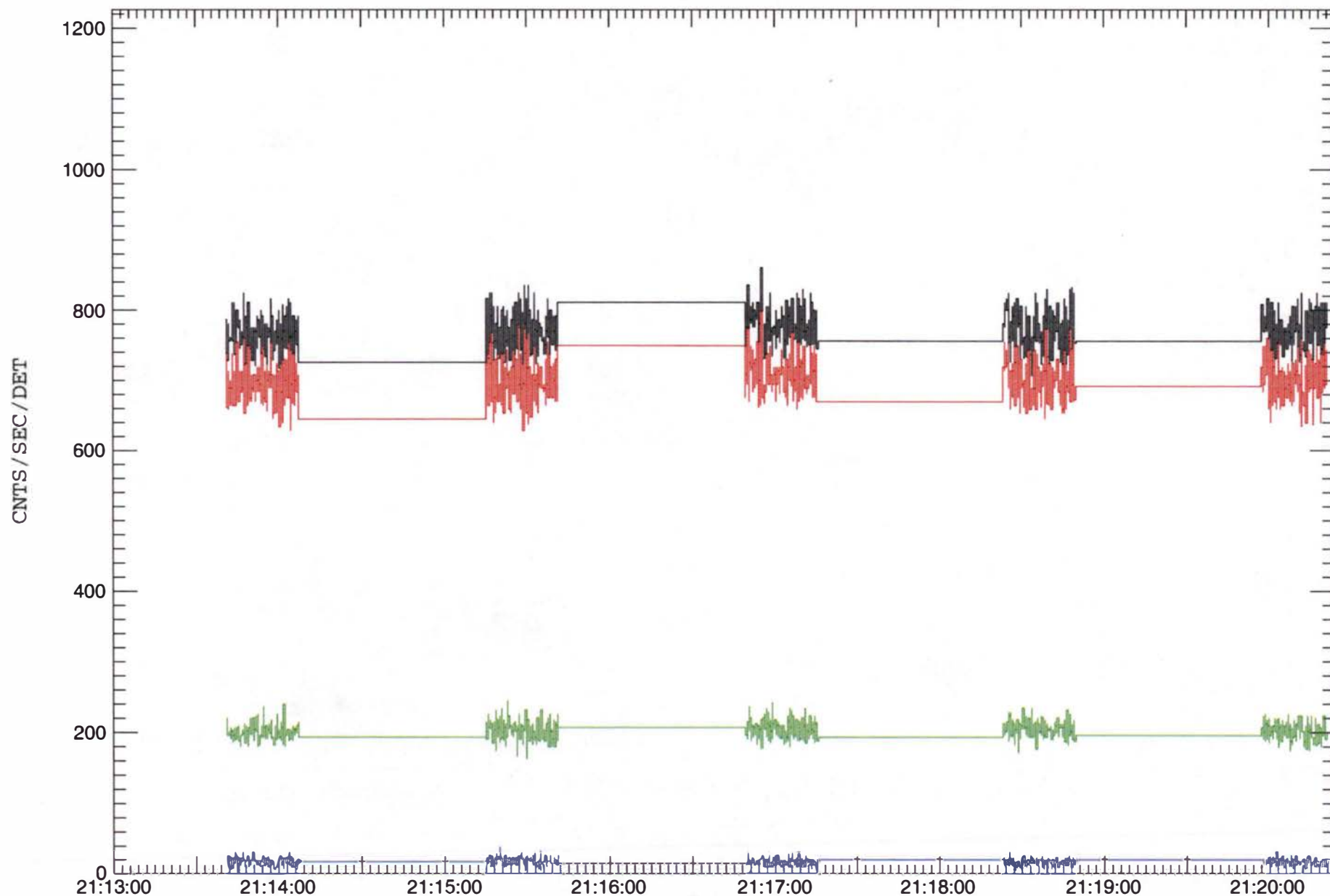
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

GHETE 9999 1 20040707 76613

ULYSSES RT

08/07/04

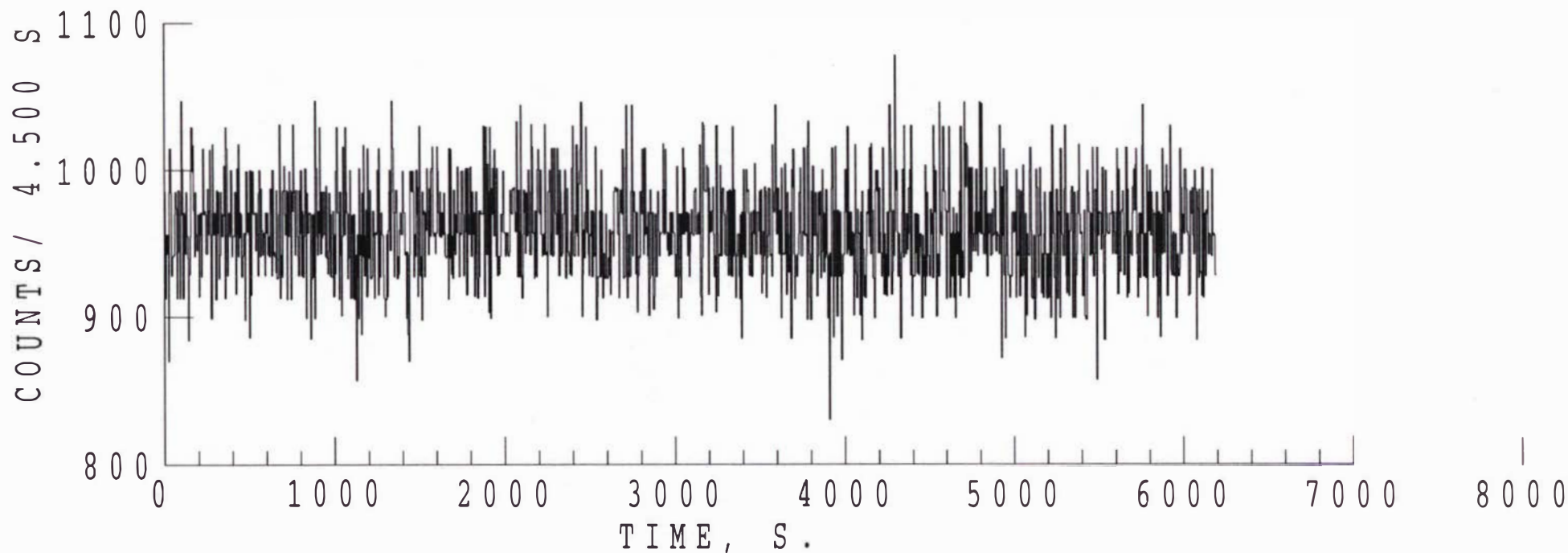
07/07/04 73512.125 s

0.500 S INTERVALS REGROUPED BY 9

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



MS01

07/07/04

75295.821

50 - 3000 keV

COUNTS/0.250 S

130

180

30

80

500

1000

1500

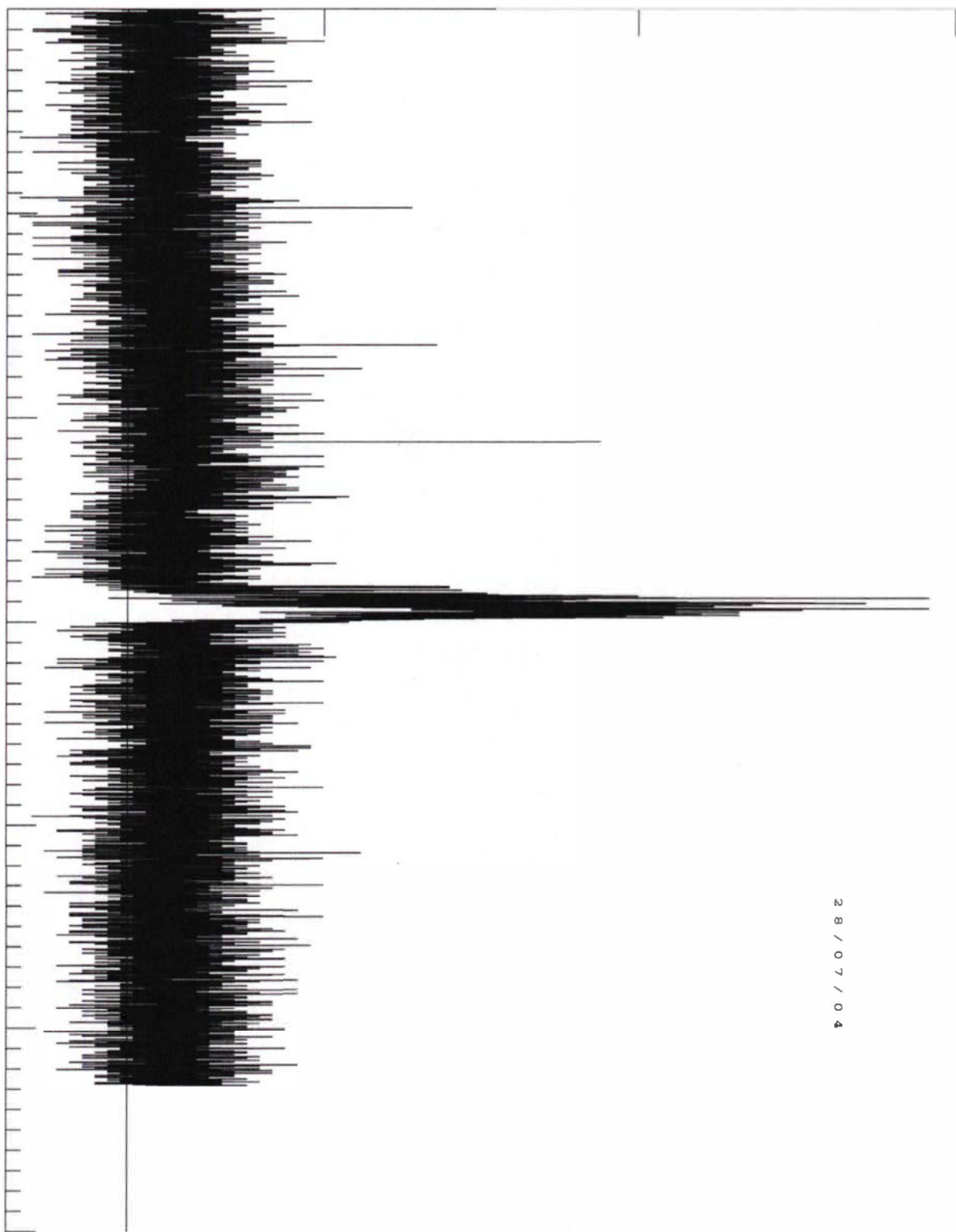
2000

2500

3000

TIME, SECS

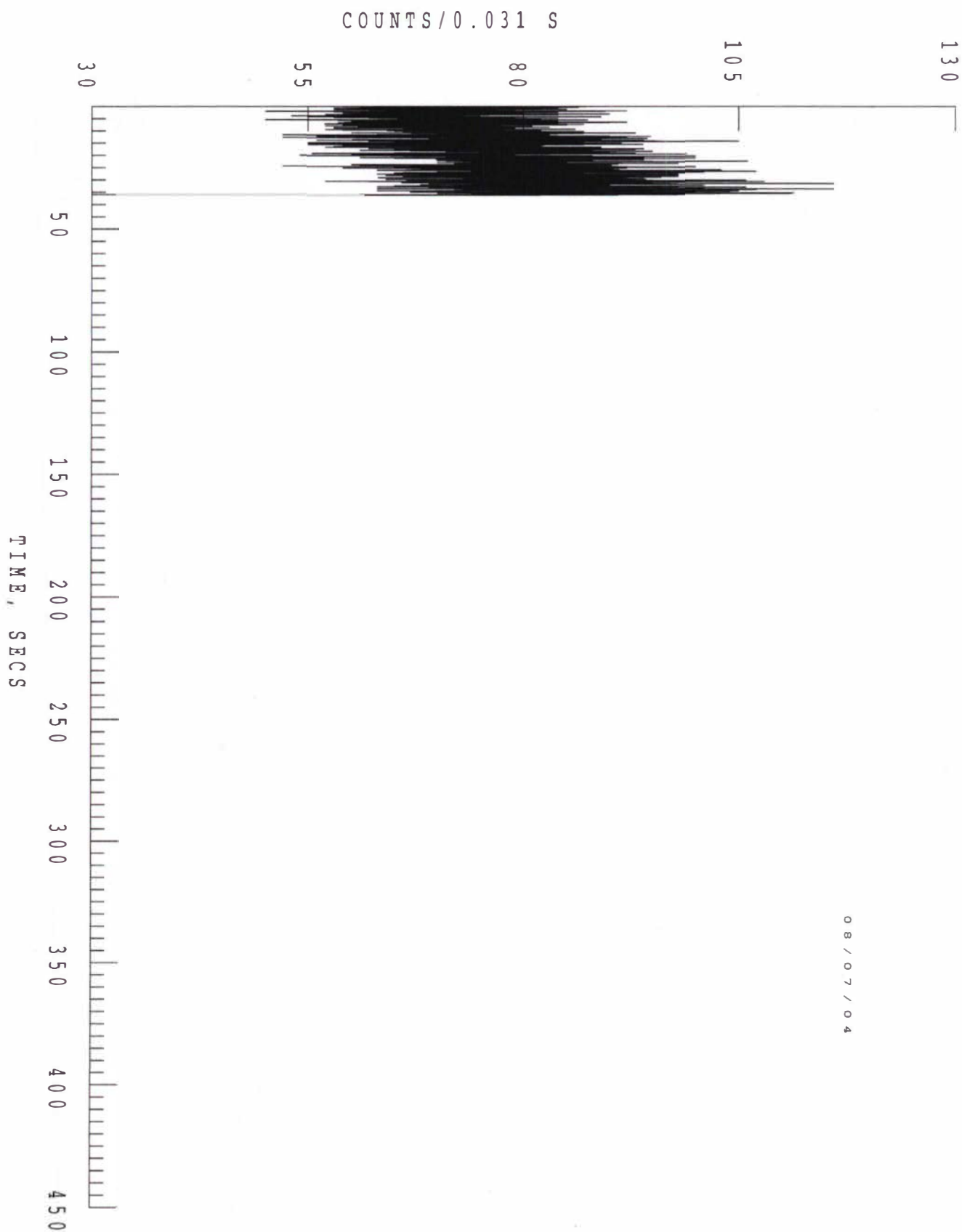
28/07/04



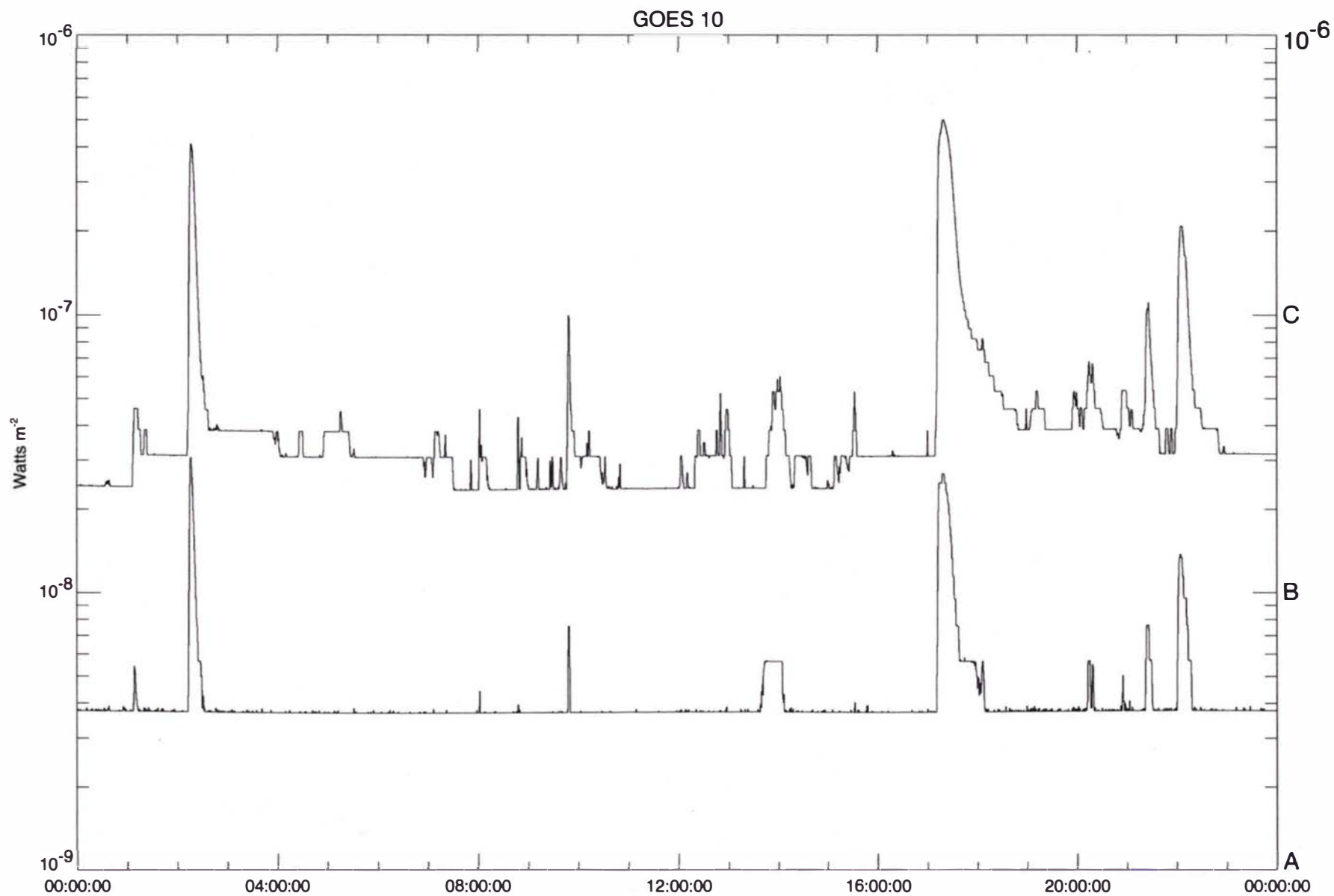
HESSI

07/07/04 76413.000 (GHETE_9999_1_20040707_76613)

25- 150 keV



08/07/04



Data Start: 04/07/07, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

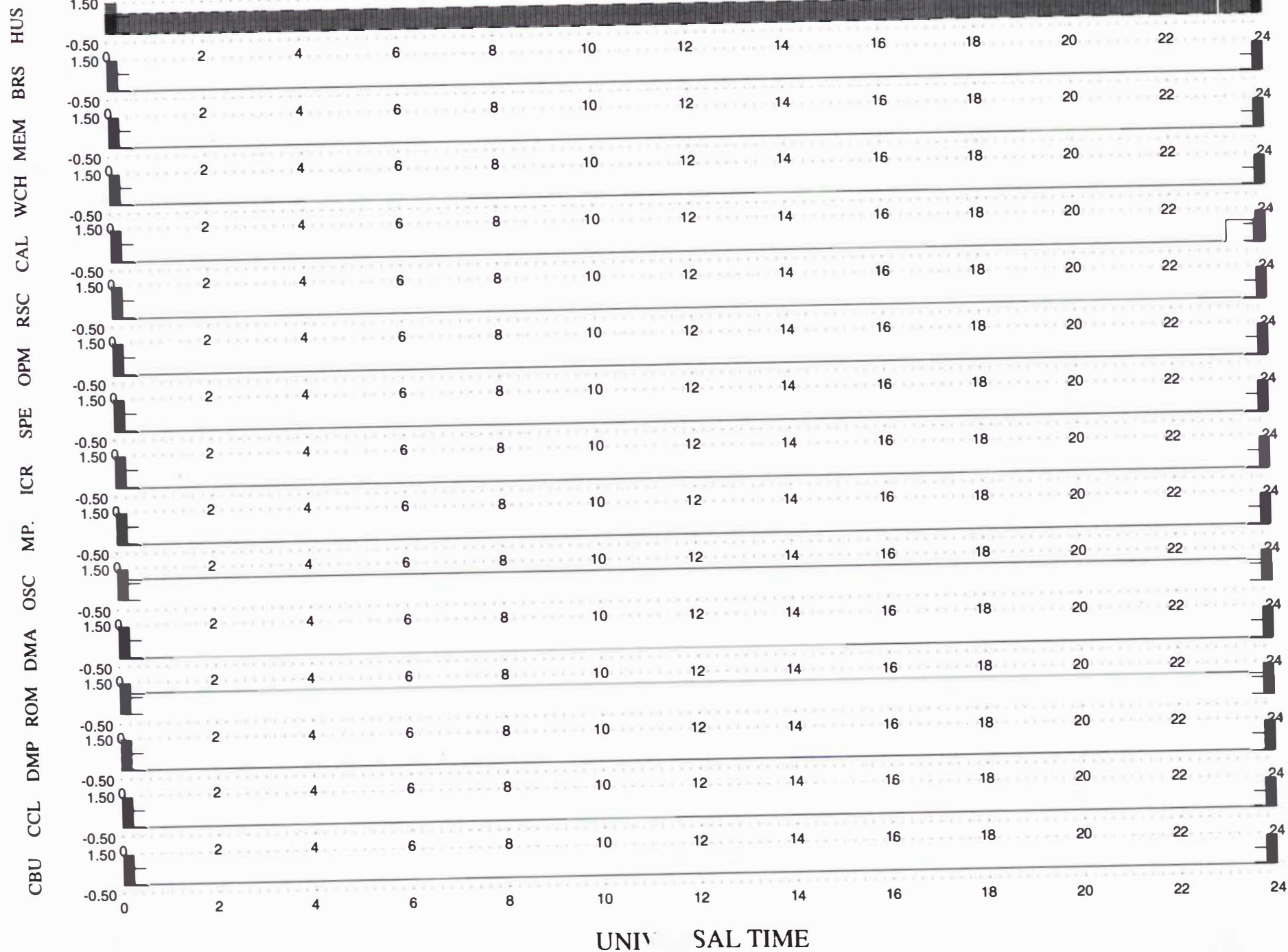
2 (0.5 - 4.0 Angstroms)

Background not subtracted

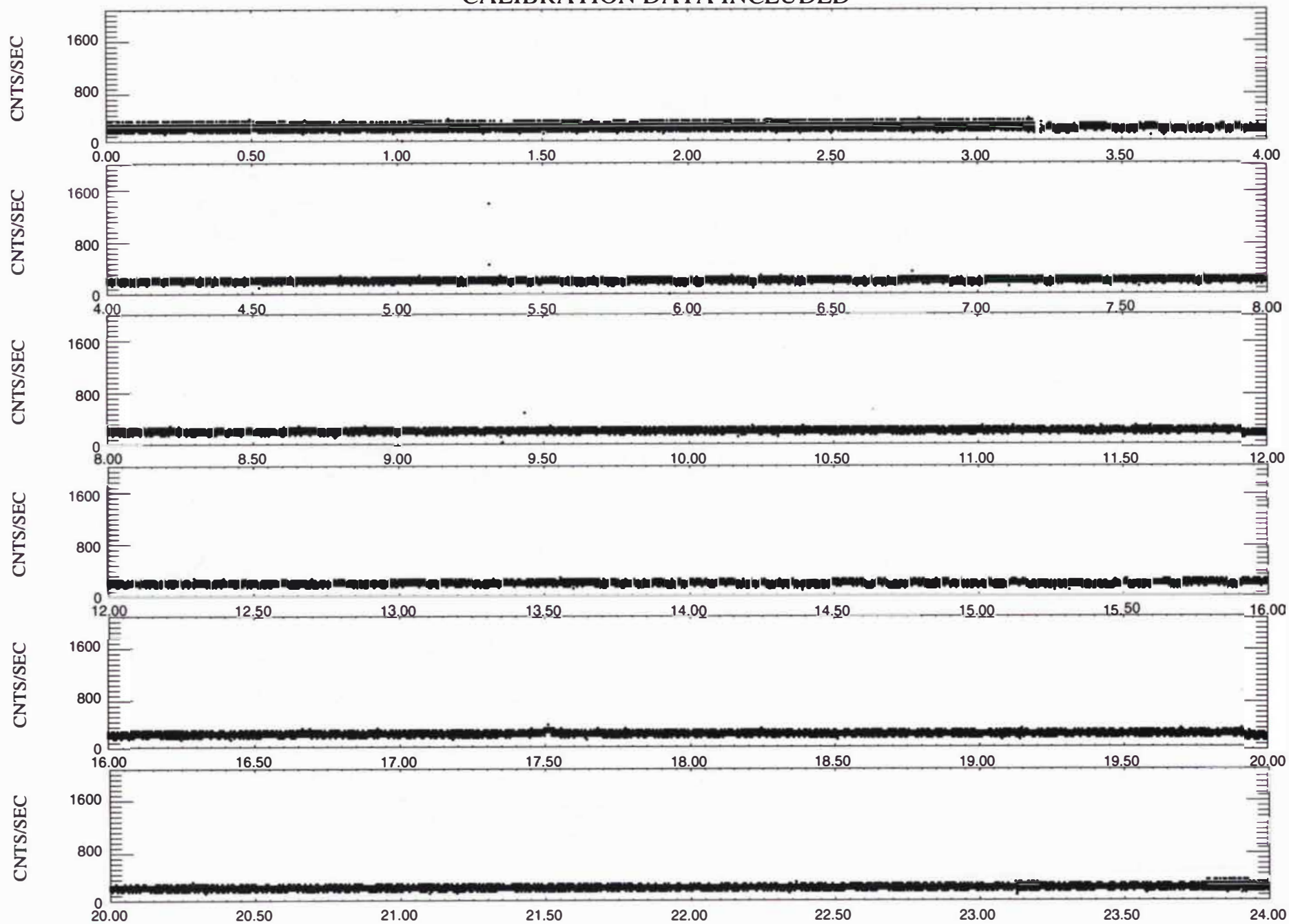
Plot created: 04/07/08, 0827

Sample average = 10

NO BURST (2)



CALIBRATION DATA INCLUDED



UNIVERSAL TIME

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTOR 1 (GHETE_9999_1_20040708_55143)

BEG TIME: 08/07/04 DOY 190 Julian 2453196.13583 UT = 15.260 15:15:36 (54936.000 secs) [sct = 0019 9c5c c05e 7cb3]
 END TIME: 08/07/04 DOY 190 Julian 2453196.14042 UT = 15.370 15:22:12 (55332.000 secs) [sct = 0019 9c5c d7f8 f907]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

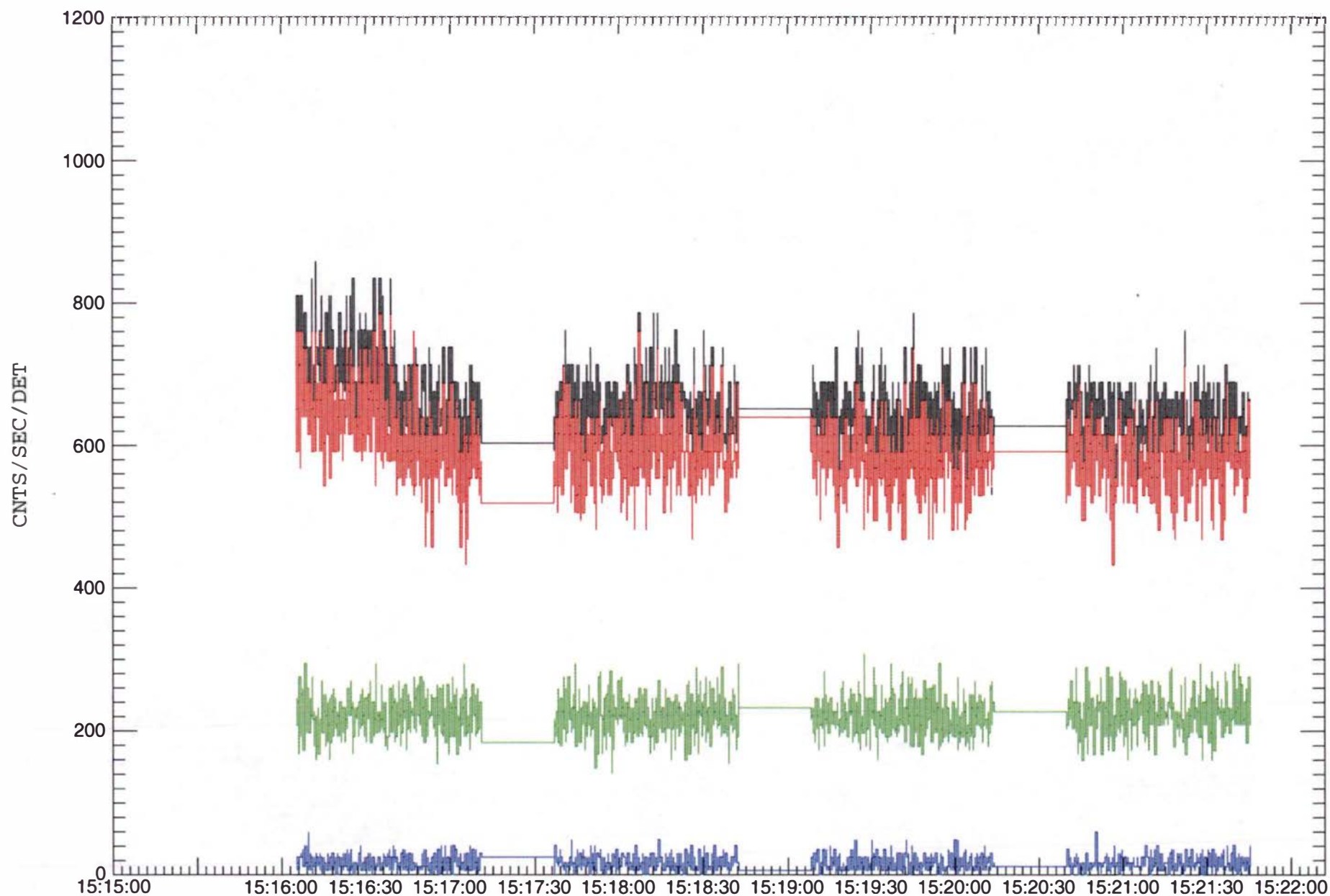
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

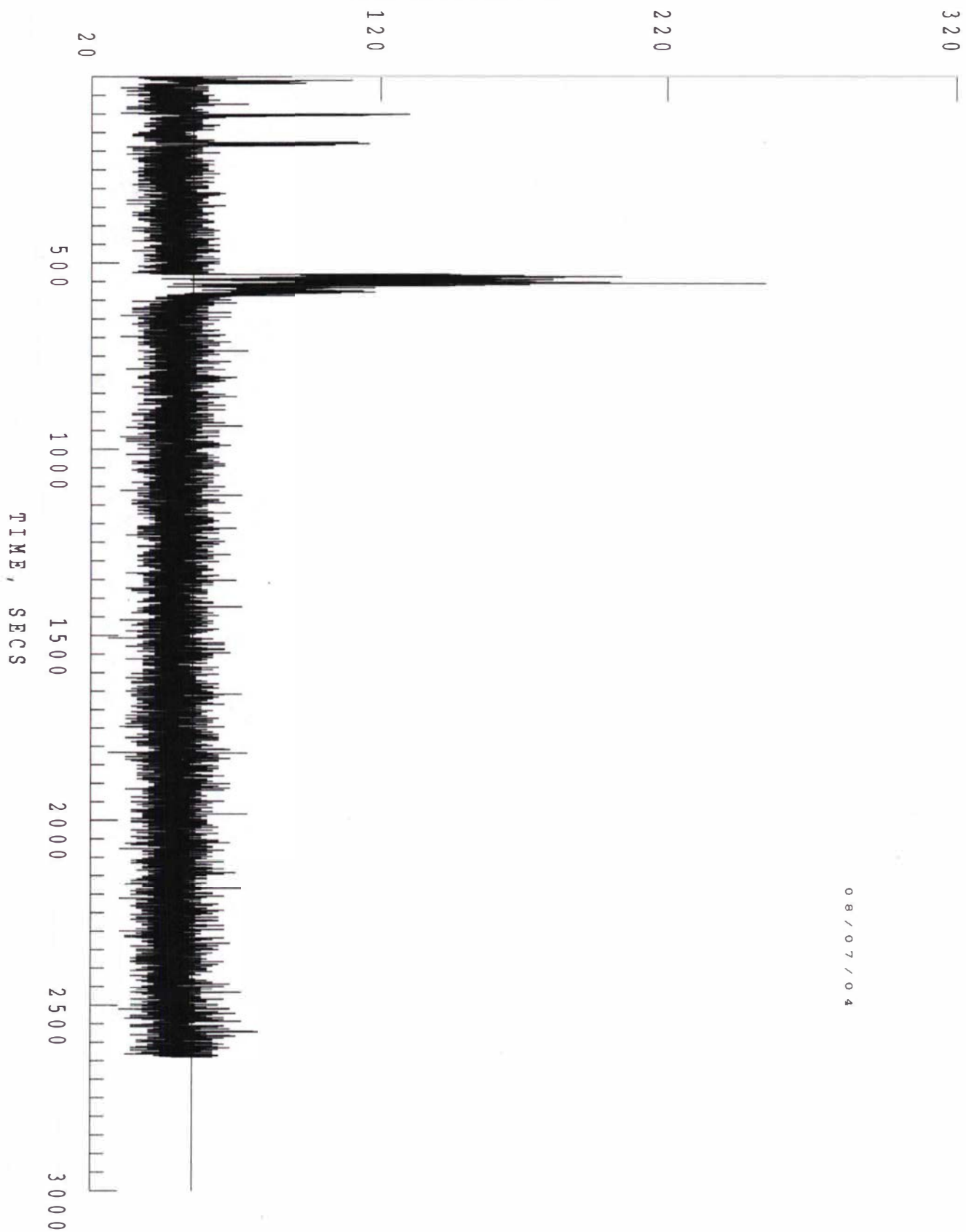
MS01

08/07/04

53814.921

50 - 3000 keV

COUNTS/0.250 S

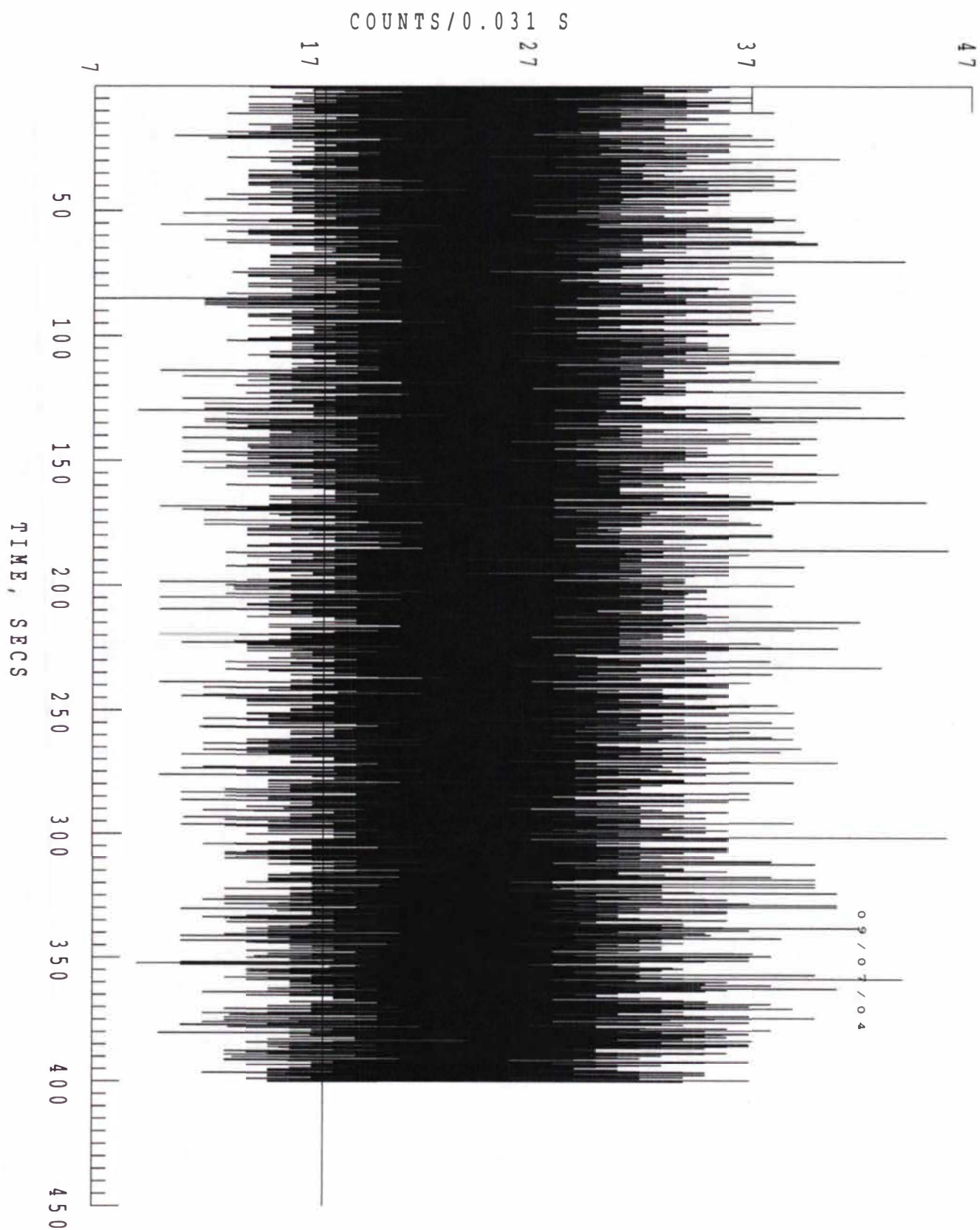


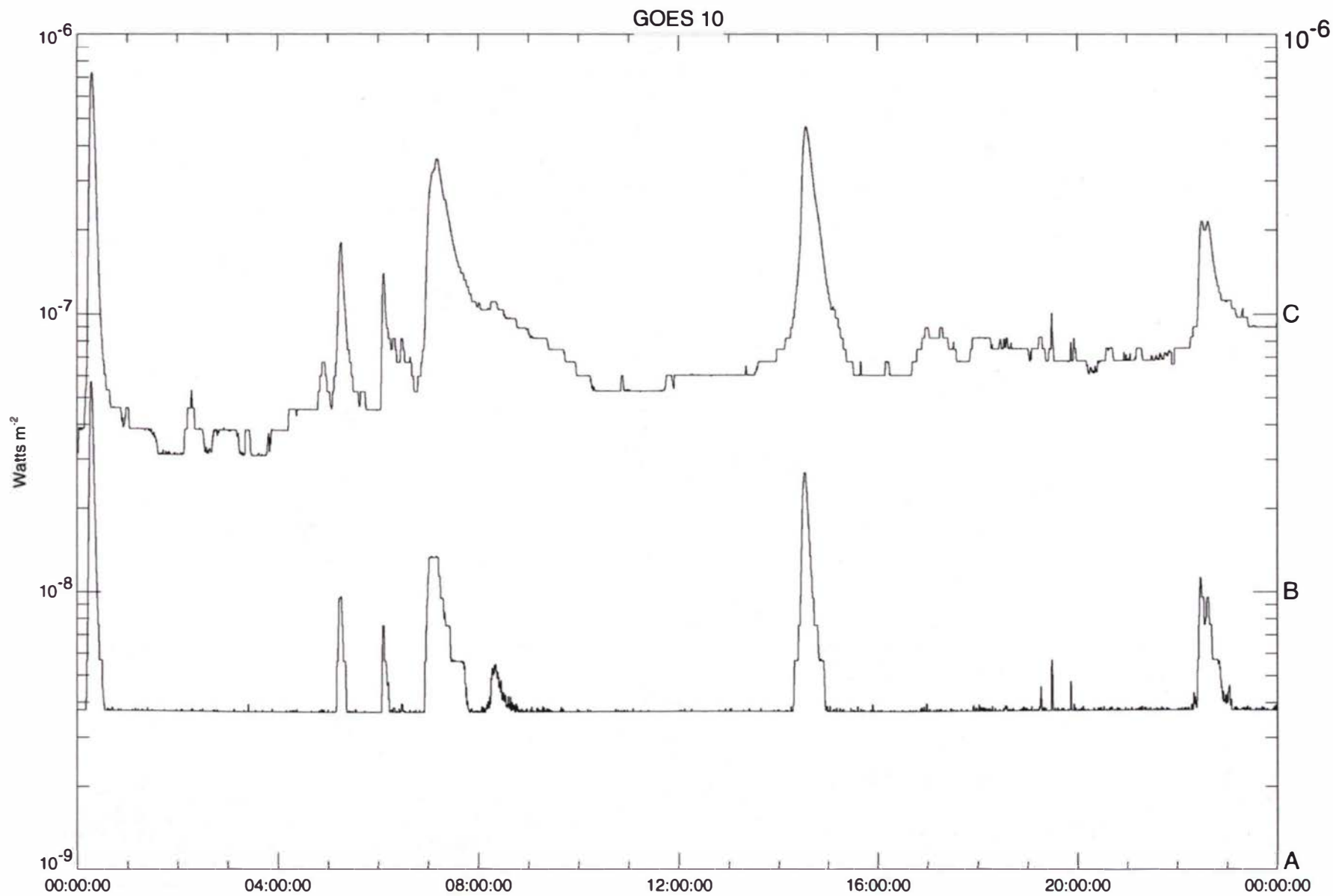
08/07/04

HESSI

08/07/04 54943.000 (GHETE_9999_1_20040708_55143)

25- 150 keV





Data Start: 04/07/08, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

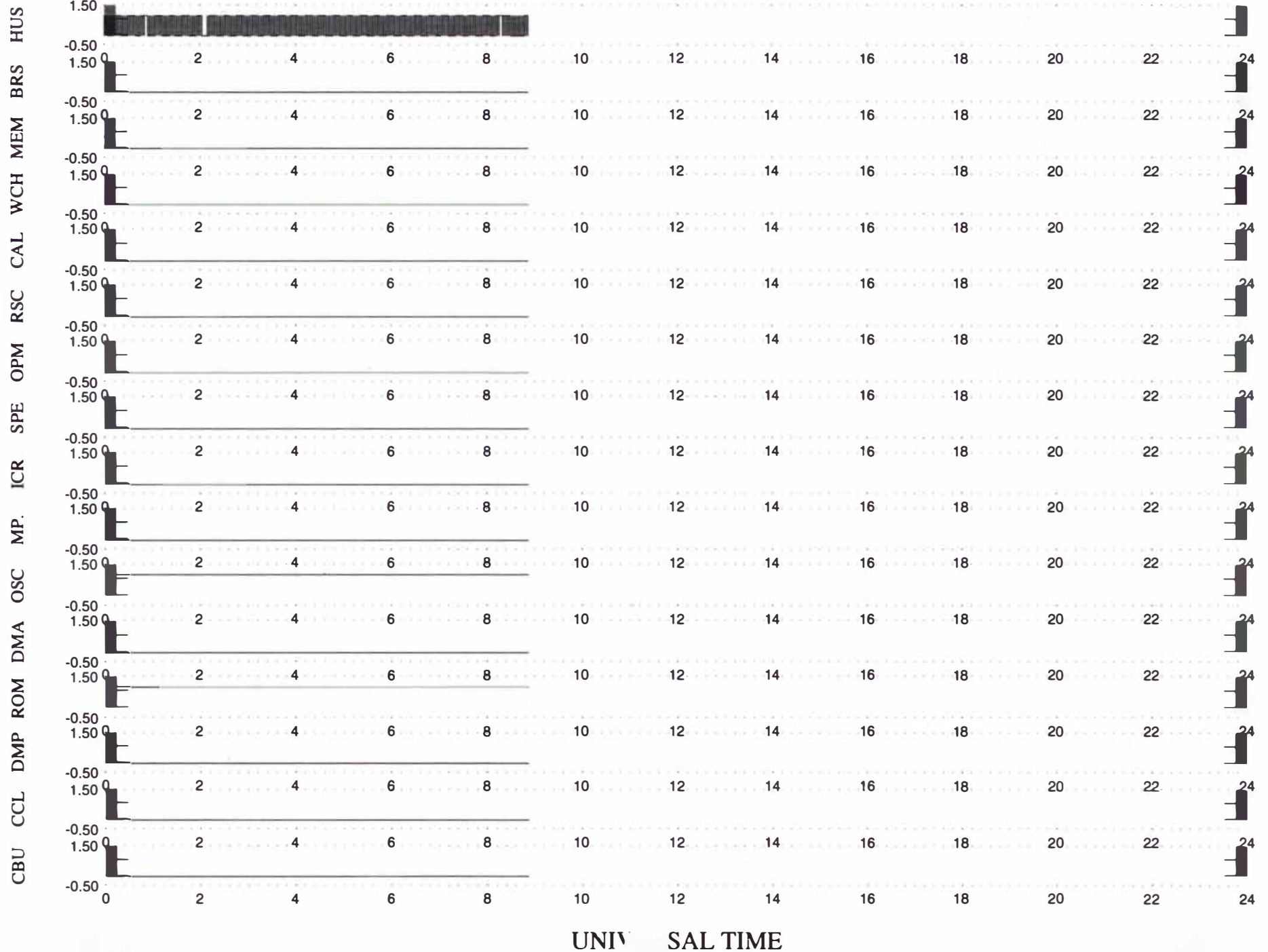
2 (0.5 - 4.0 Angstroms)

Background not subtracted

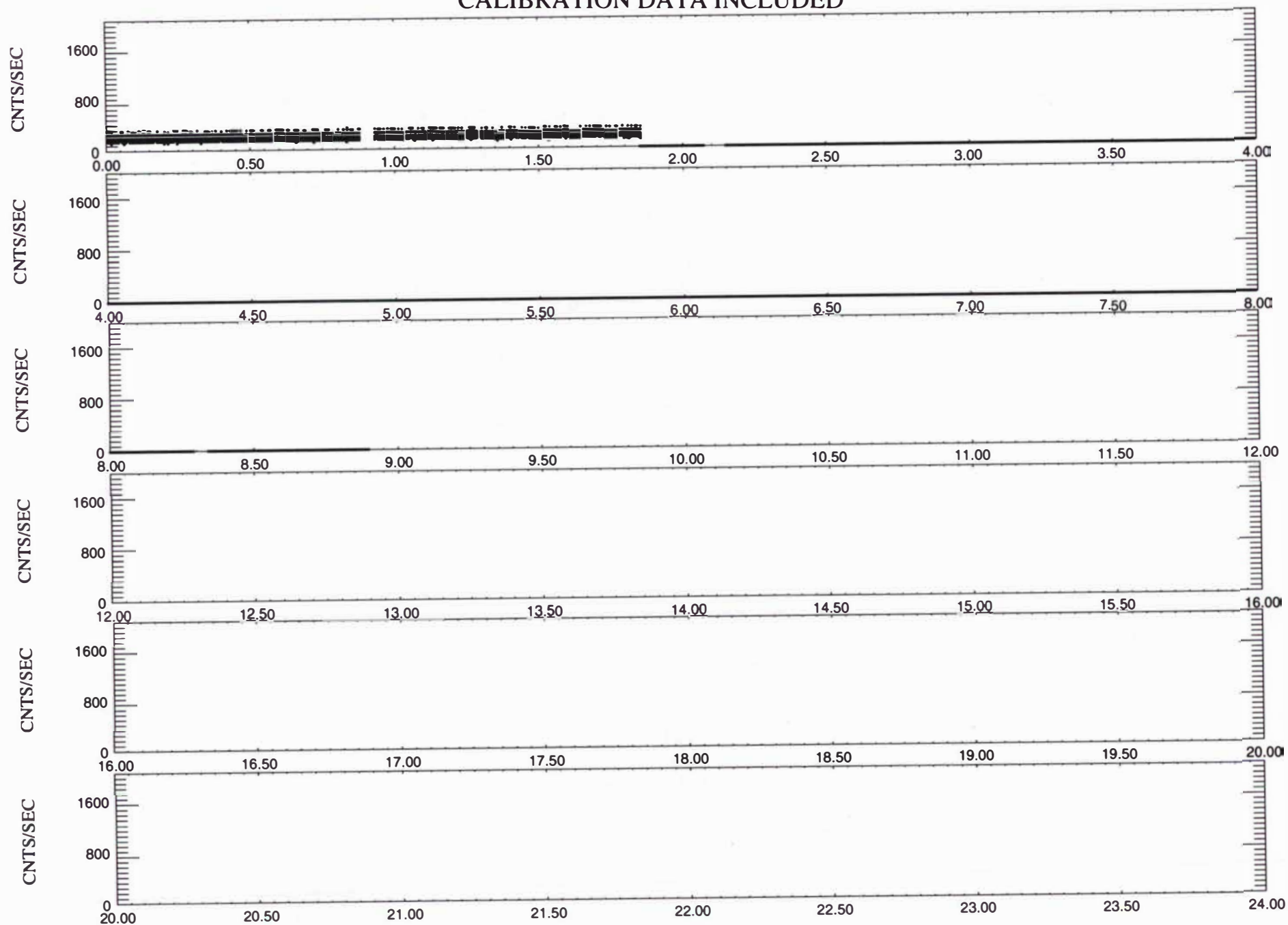
Plot created: 04/07/09, 0827

Sample average = 10

NO BURST (2)



CALIBRATION DATA INCLUDED



UNIV ^SAL TIME

From hops@space.mit.edu Thu Jul 8 18:27:44 2004
Date: Thu, 8 Jul 2004 21:28:42 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
>: khurley@sunspot.ssl.berkeley.edu
Subject: Trigger Notice to IPN

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Fri Jul 9 01:28:13 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13195 TJD; 191 DOY; 04/07/09
GRB_TIME: 3487.97 SOD {00:58:07.97} 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

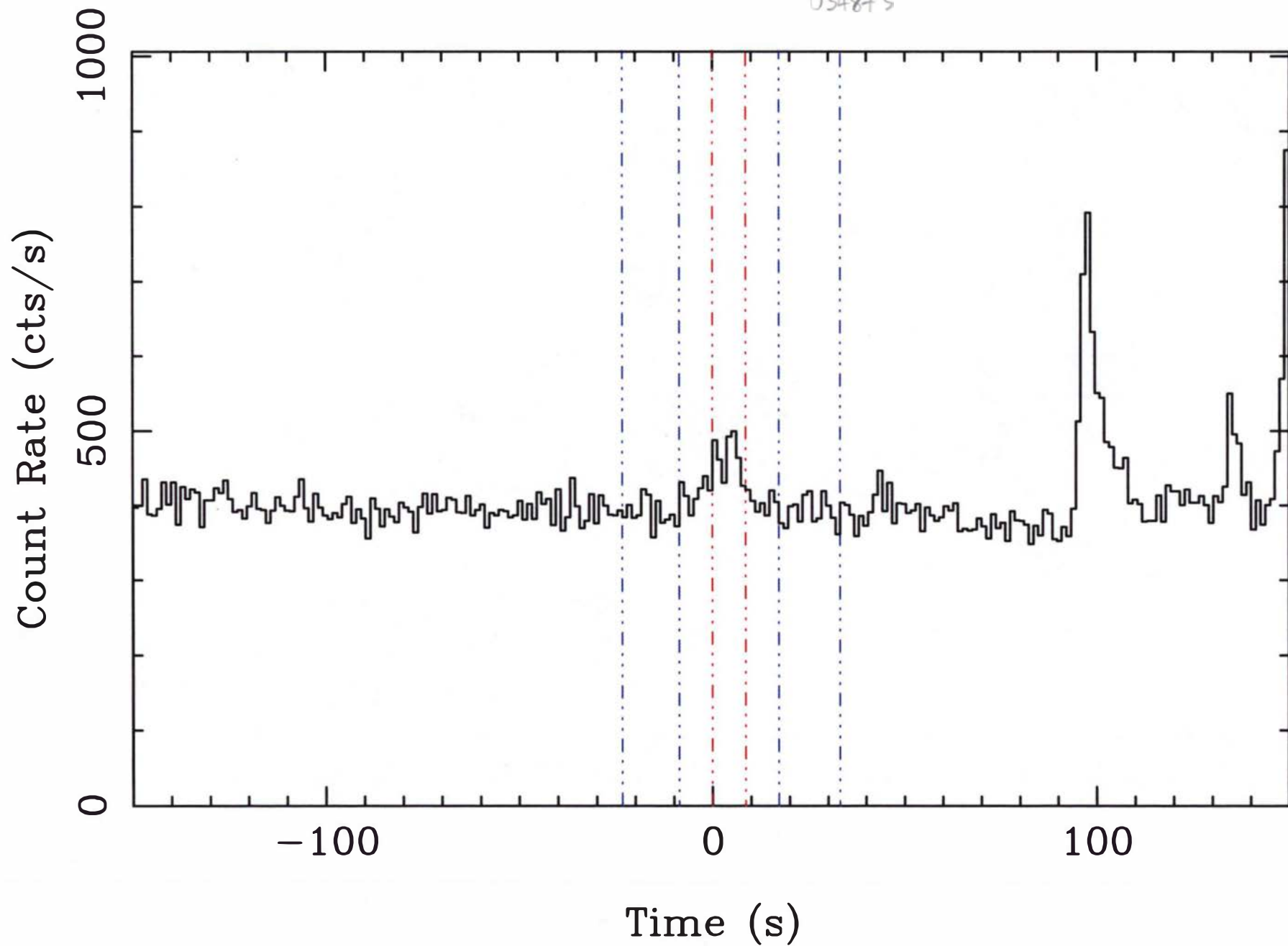
From vxw@capella.gsfc.nasa.gov Thu Jul 8 19:59:47 2004
Date: Thu, 8 Jul 2004 23:00:42 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
<: khurley@sunspot.ssl.berkeley.edu
Subject: GCN/HETE_POSITION

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Fri 09 Jul 04 02:59:17 UT
NOTICE_TYPE: HETE Ground Analysis
TRIGGER_NUM: 11549, Seq_Num: 2
GRB_DATE: 13195 TJD; 191 DOY; 04/07/09
GRB_TIME: 3487.96 SOD {00:58:07.96} UT
TRIGGER_SOURCE: Trigger on the 25-400 keV band.
SC_Z_RA: 108 [deg]
SC_Z_DEC: 22 [deg]
SC_LONG: 68 [deg East]
WXM_CNTR_RA: 313.471d {+20h 53m 53s} (J2000),
313.539d {+20h 54m 09s} (current),
312.721d {+20h 50m 53s} (1950)
WXM_CNTR_DEC: -28.225d {-28d 13' 29"} (J2000),
-28.208d {-28d 12' 27"} (current),
-28.415d {-28d 24' 54"} (1950)
WXM_CORNER1: 311.6668 -28.2280 [deg]
WXM_CORNER2: 314.9408 -29.1409 [deg]
WXM_CORNER3: 315.2599 -28.2250 [deg]
WXM_CORNER4: 312.0169 -27.3060 [deg]
WXM_MAX_SIZE: 189.90 [arcmin] diameter
WXM_LOC_SN: 40 sig/noise (pt src in image)
WXM_IMAGE_SN: X= 22.0 Y= 25.5 [sig/noise]
M_LC_SN: X= 20.0 Y= 25.5 [sig/noise]
JN_POSTN: 108.61d {+07h 14m 26s} +22.34d {+22d 20' 09"}
SUN_DIST: 156.75 [deg]
MOON_POSTN: 13.82d {+00h 55m 16s} +3.52d {+03d 31' 11"}
MOON_DIST: 65.98 [deg]
MOON_ILLUM: 53 [%]
GAL_COORDS: 17.01,-37.95 [deg] galactic lon,lat of the burst
ECL_COORDS: 308.04,-10.34 [deg] ecliptic lon,lat of the burst
COMMENTS: HETE Message.
COMMENTS: Definite GRB
COMMENTS: WXM data refined since S/C_Last Notice.
COMMENTS: Burst_VValidity flag is true
COMMENTS: Very bright, long GRB detected while star cameras
COMMENTS: were disabled.

FREGATE Band C, 1.2s Resolution Data

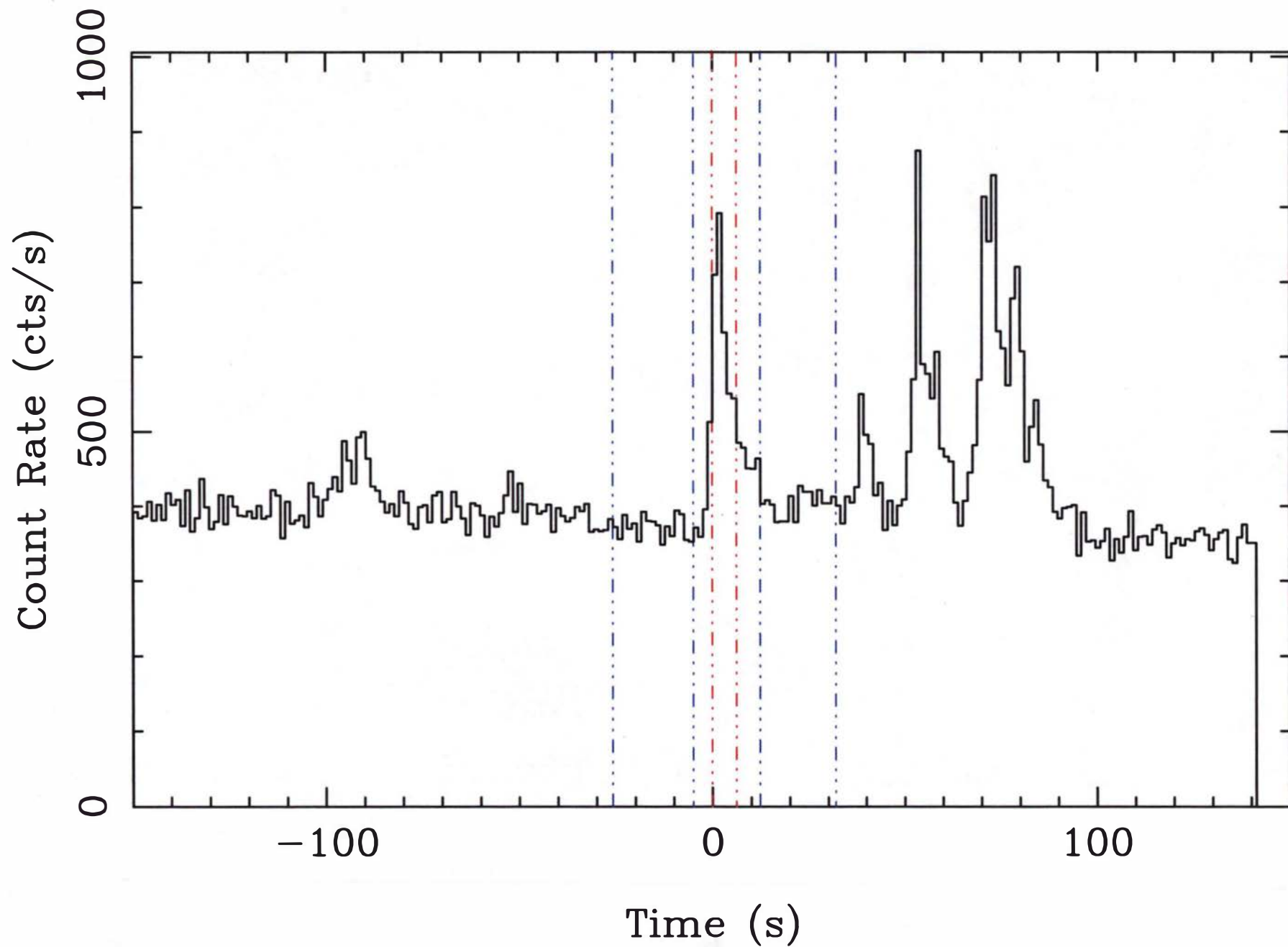
Time Since UTC = 20040709_005807.976544

03487 s



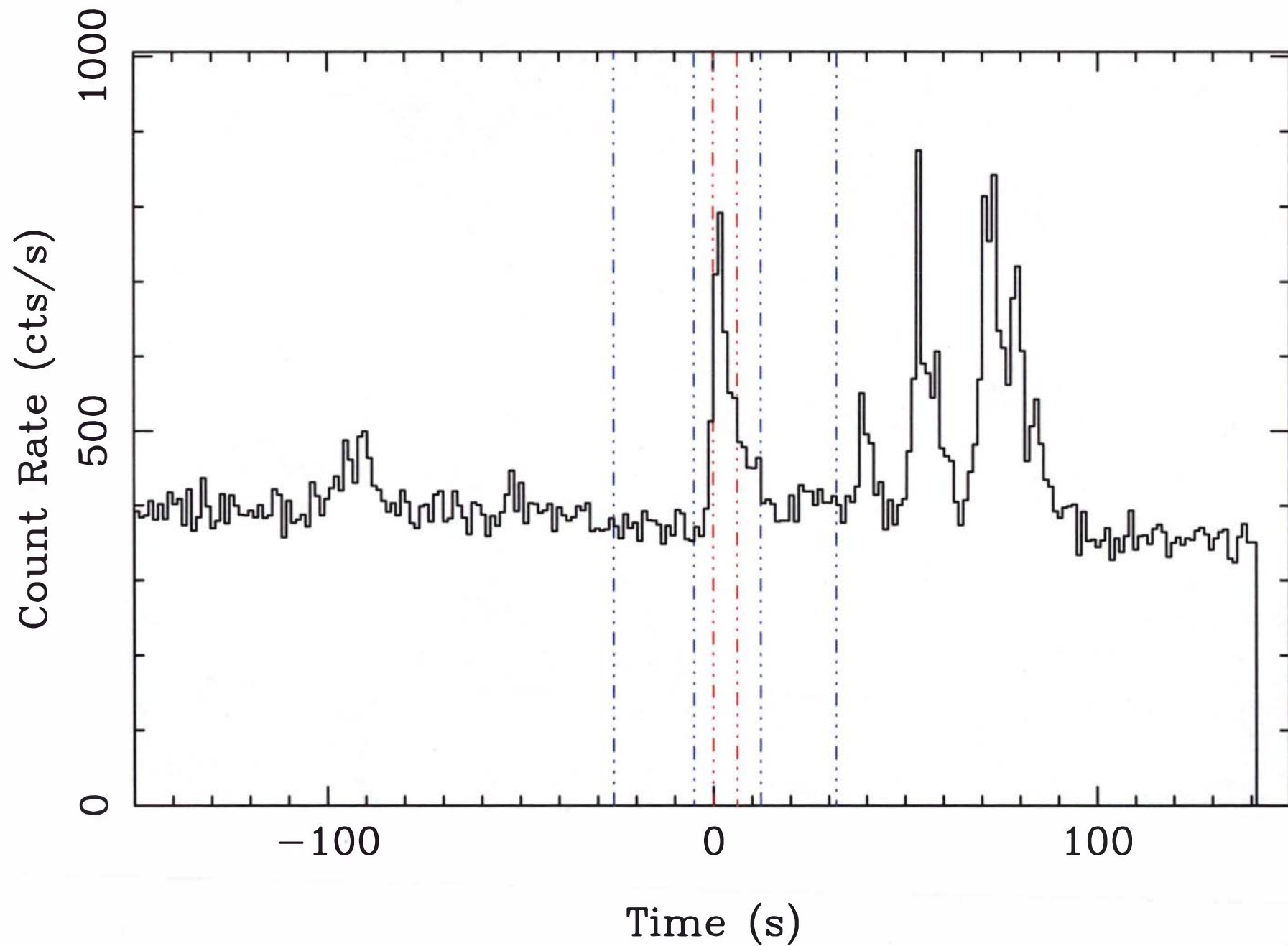
FREGATE Band C, 1.2s Resolution Data

Time Since UTC = 20040709_005943.822863



FREGATE Band C, 1.2s Resolution Data

Time Since UTC = 20040709_005943.822863



KONUS

09/07/04 2986.063

10- 50 keV

50- 200 keV 200- 750 keV

COUNTS/2.944 S

3400

DETECTOR 1 - S. ECLIPSE

12/07/04

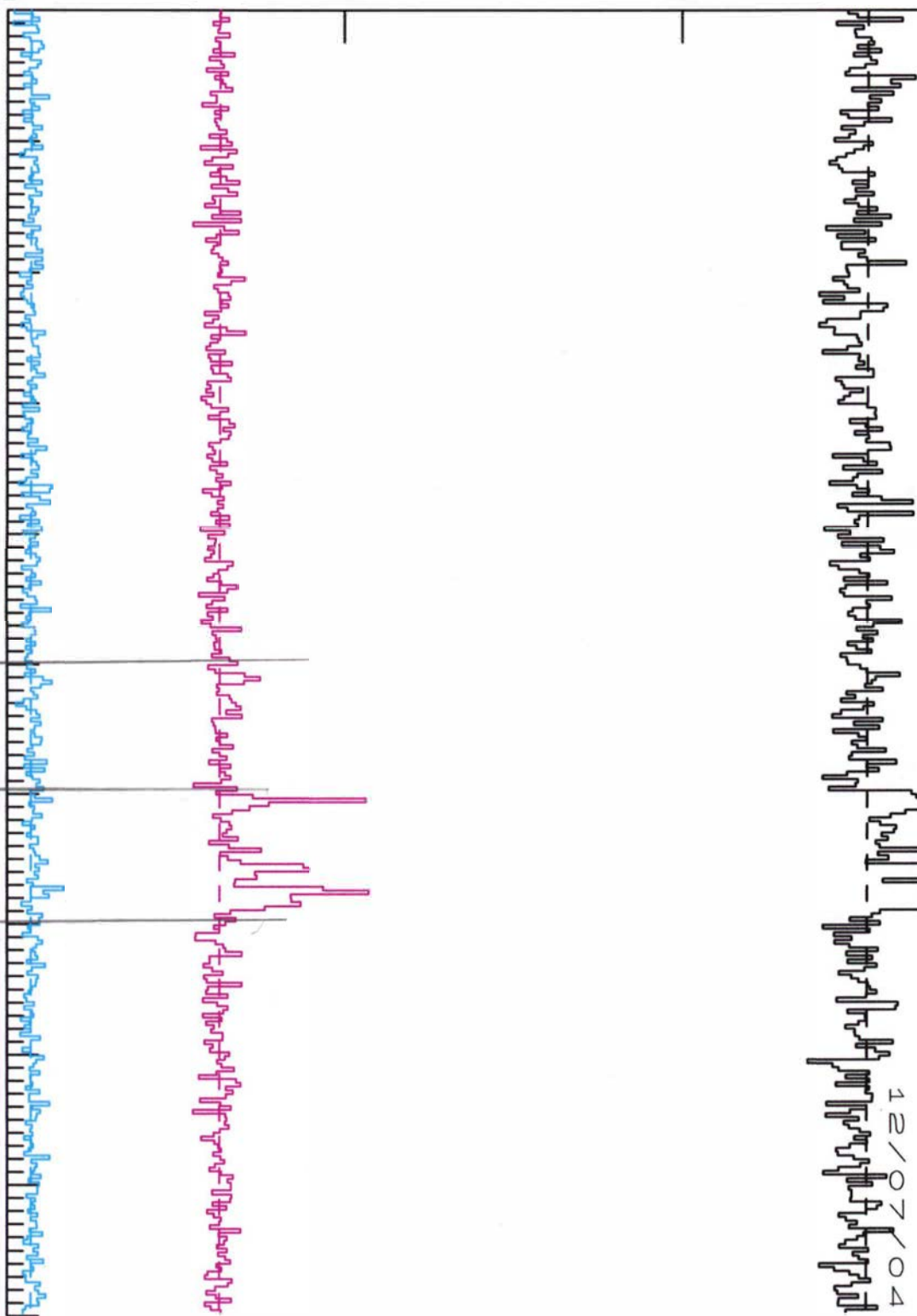
1400

2400

400

100 200 300 400 500 600 700 800 900 10

TIME, SECS



KONUS

09/07/04 2986.063

10- 50 keV

50- 200 keV 200- 750 keV

COUNTS/2.944 S

4300

3300

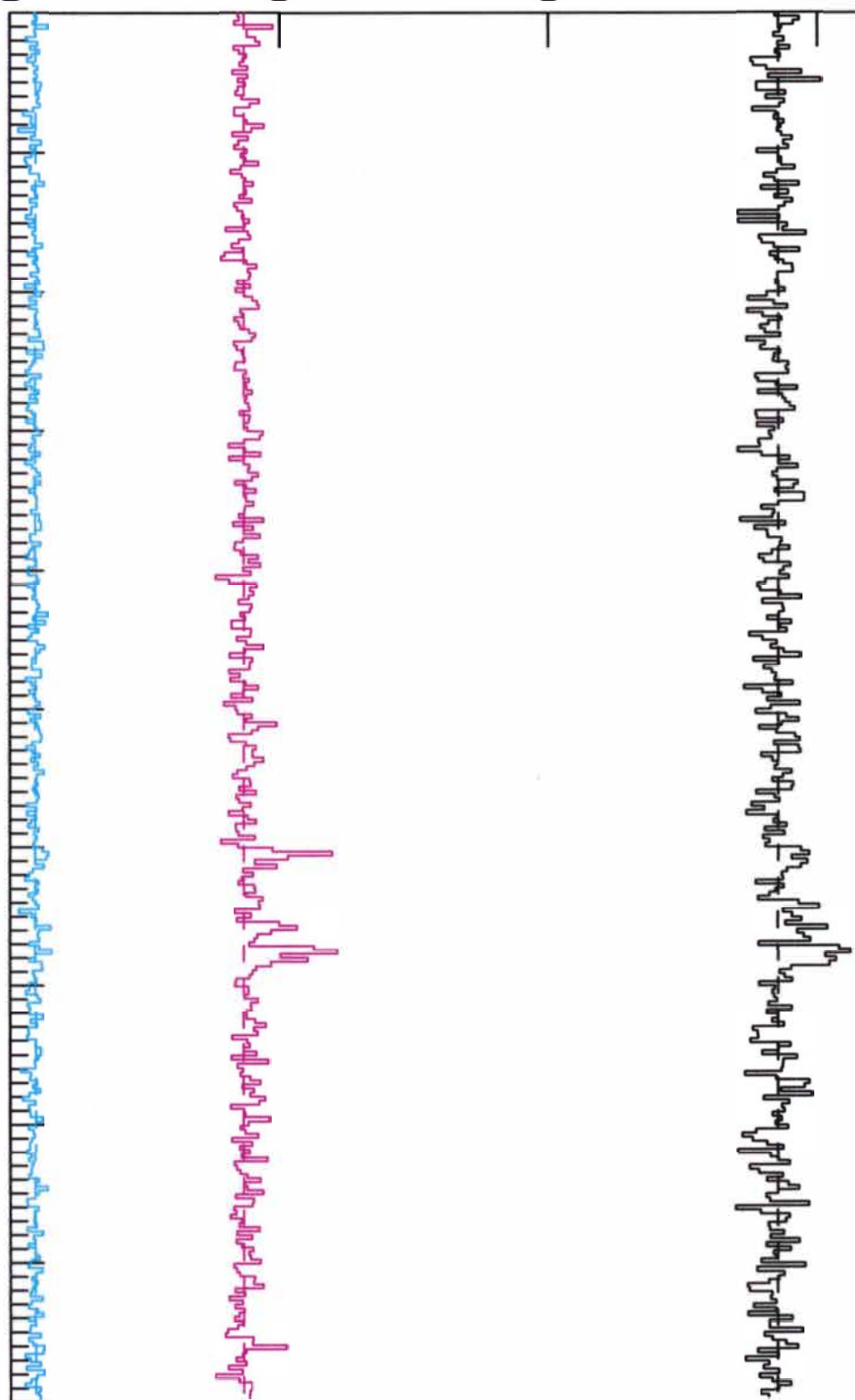
2300

1300

DETECTOR 2 - N. ECLIPIC

12/07/04

300
0
100 200 300 400 500 600 700 800 900 10
TIME, SECS



MS01

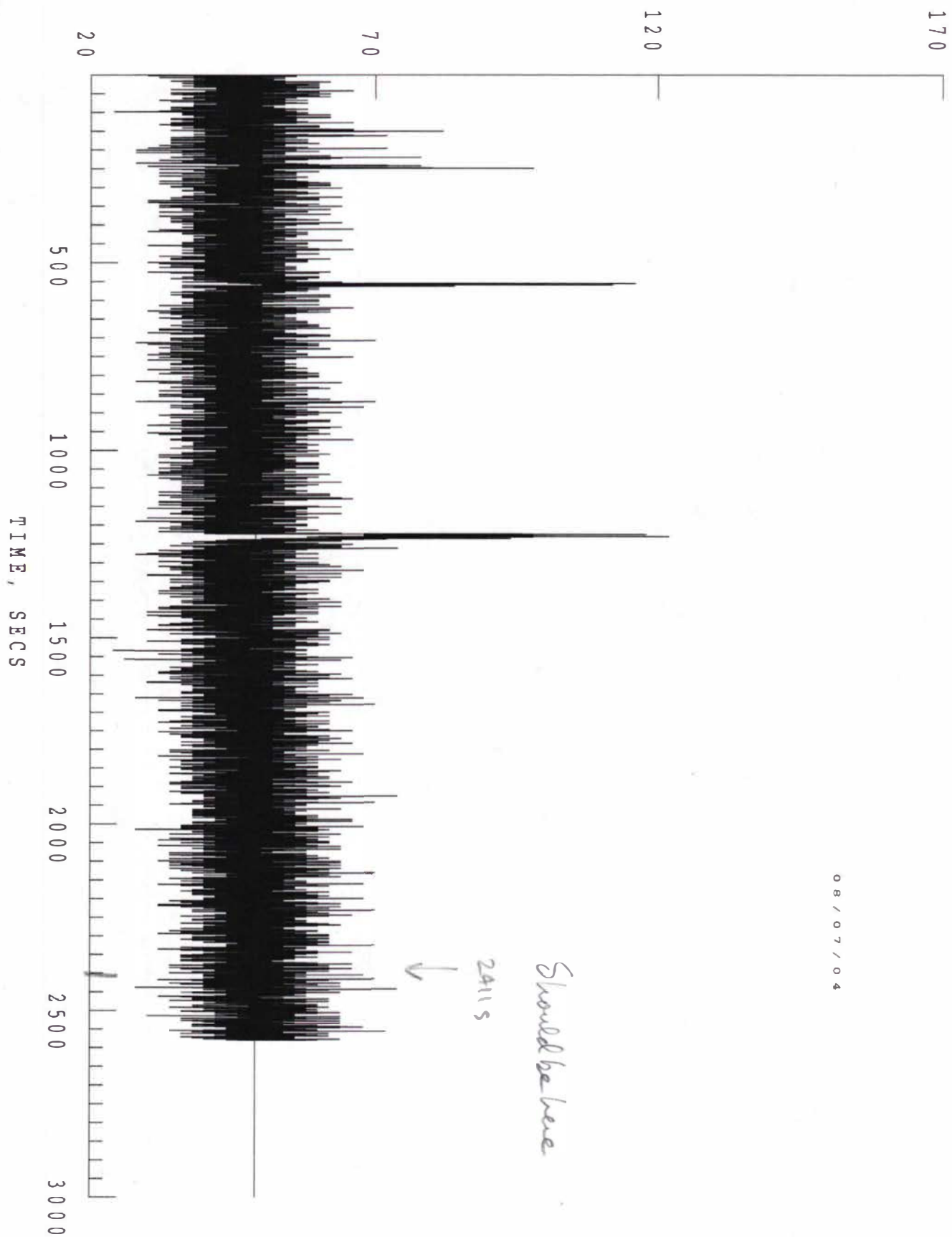
09/07/04

2334.266

50 - 3000 keV

No tag

COUNTS/0.250 S



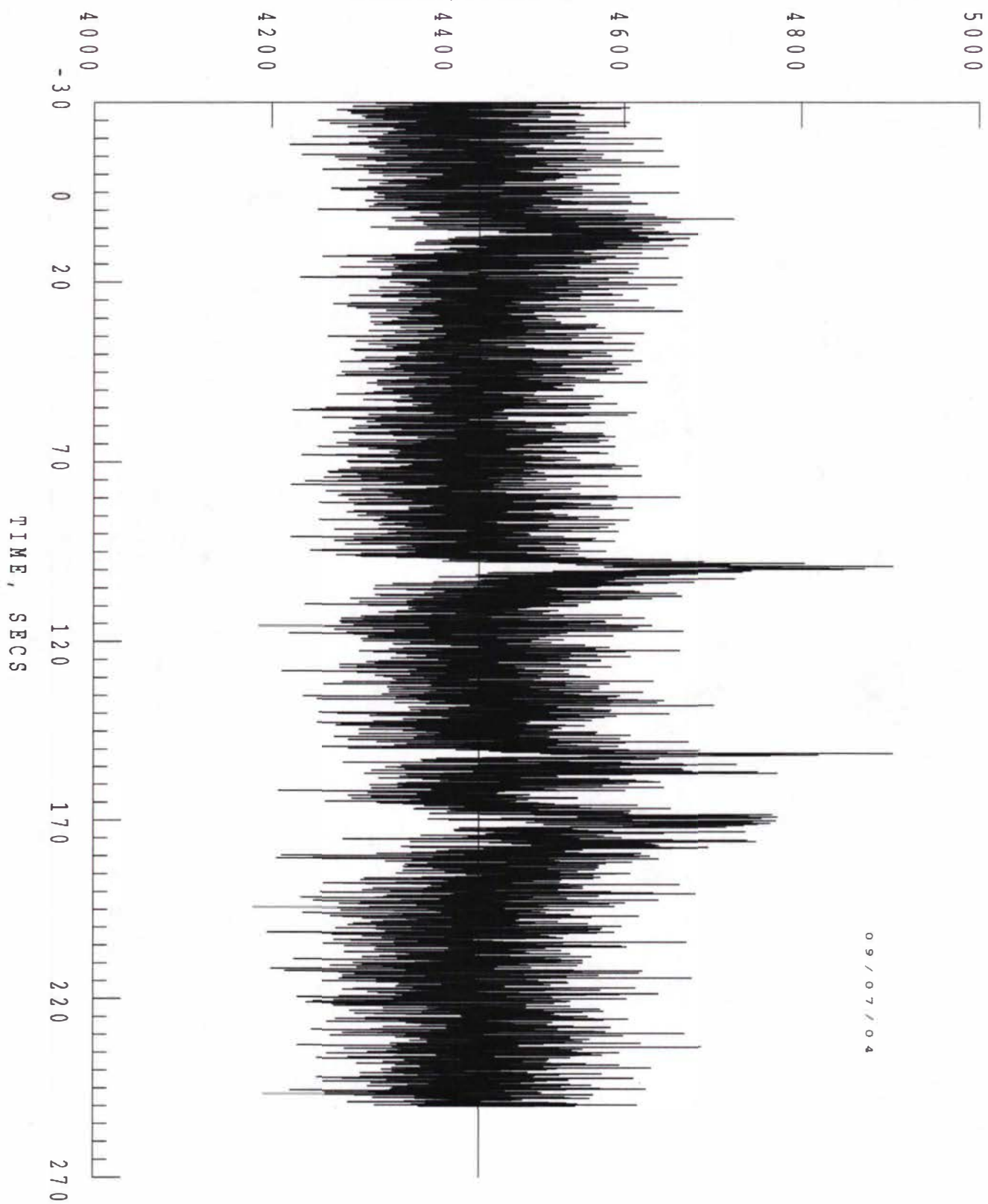
INTEGRAL

09/07/04

3485.978

100-10000 keV

COUNTS/0.050 S



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (INTEGRAL_20040709_03486)

BEG TIME: 09/07/04 DOY 191 Julian 2453196.53792 UT = 00.910 00:54:36 (03276.000 secs) [sct = 0019 9c64 d709 460f]
 END TIME: 09/07/04 DOY 191 Julian 2453196.54250 UT = 01.020 01:01:12 (03672.000 secs) [sct = 0019 9c64 eea3 c261]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

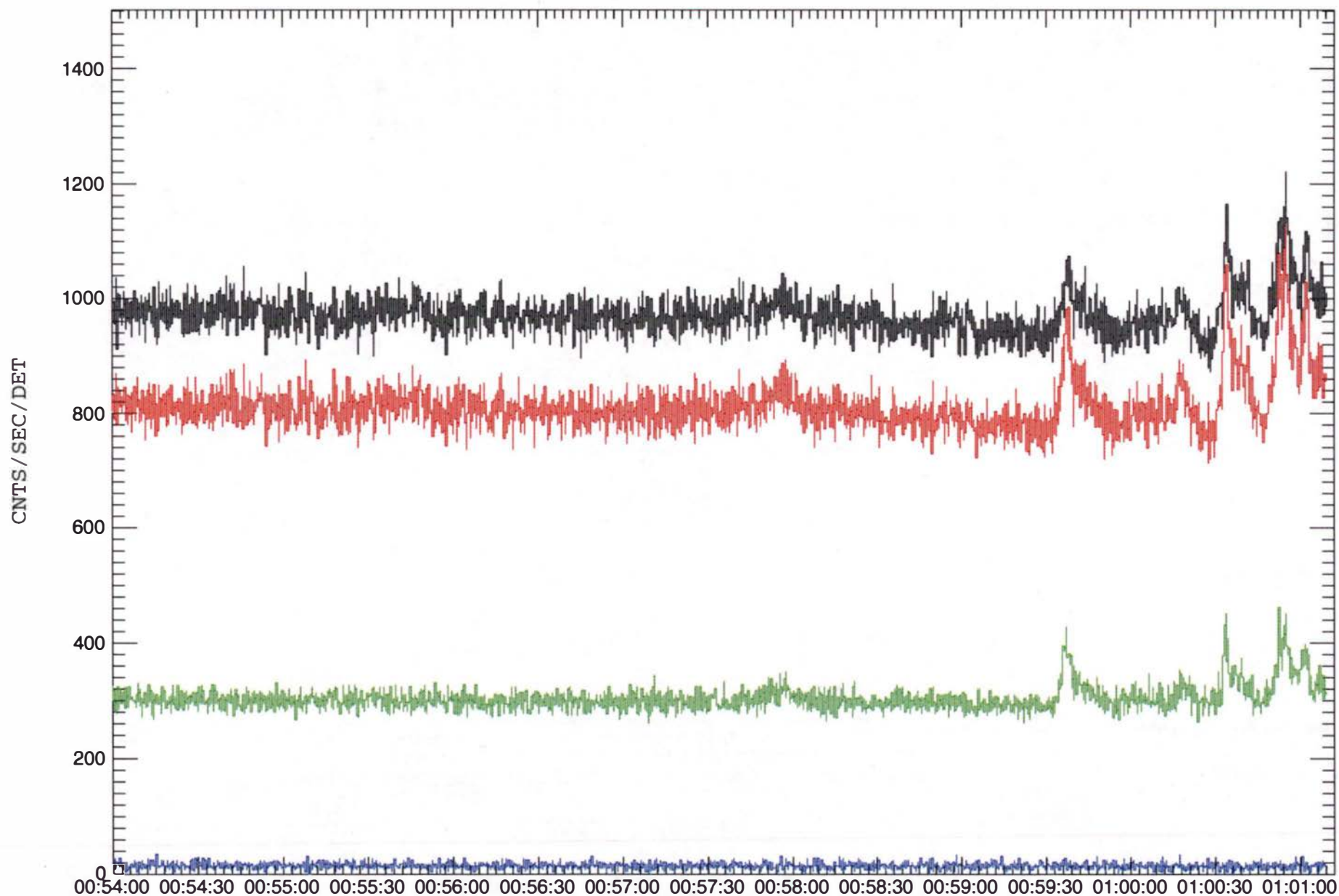
Chan 4:[E6=510 ->]

Channel 1 + 600

Channel 2 + 400

Channel 3 + 200

Channel 4 + 0

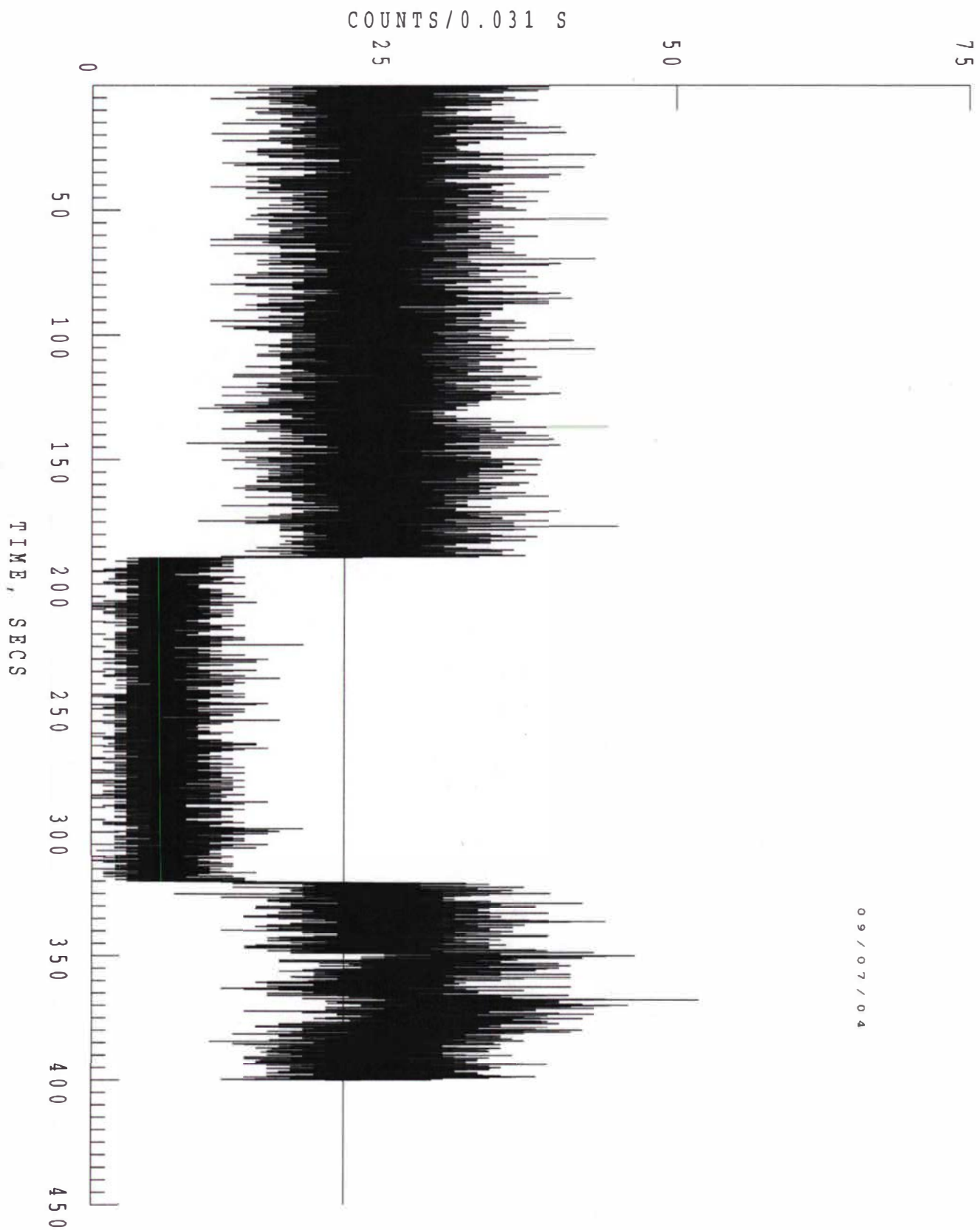


RS UT

HESSI

09/07/04 3287.000 (GHETE_11549_1_20040709_03487)

25- 150 keV



09/07/04

From hops@space.mit.edu Thu Jul 8 18:28:14 2004
Date: Thu, 8 Jul 2004 21:29:13 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
>: khurley@sunspot.ssl.berkeley.edu
Subject: Trigger Notice to IPN

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Fri Jul 9 01:28:43 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13195 TJD; 191 DOY; 04/07/09
GRB_TIME: 3583.82 SOD {00:59:43.82} 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

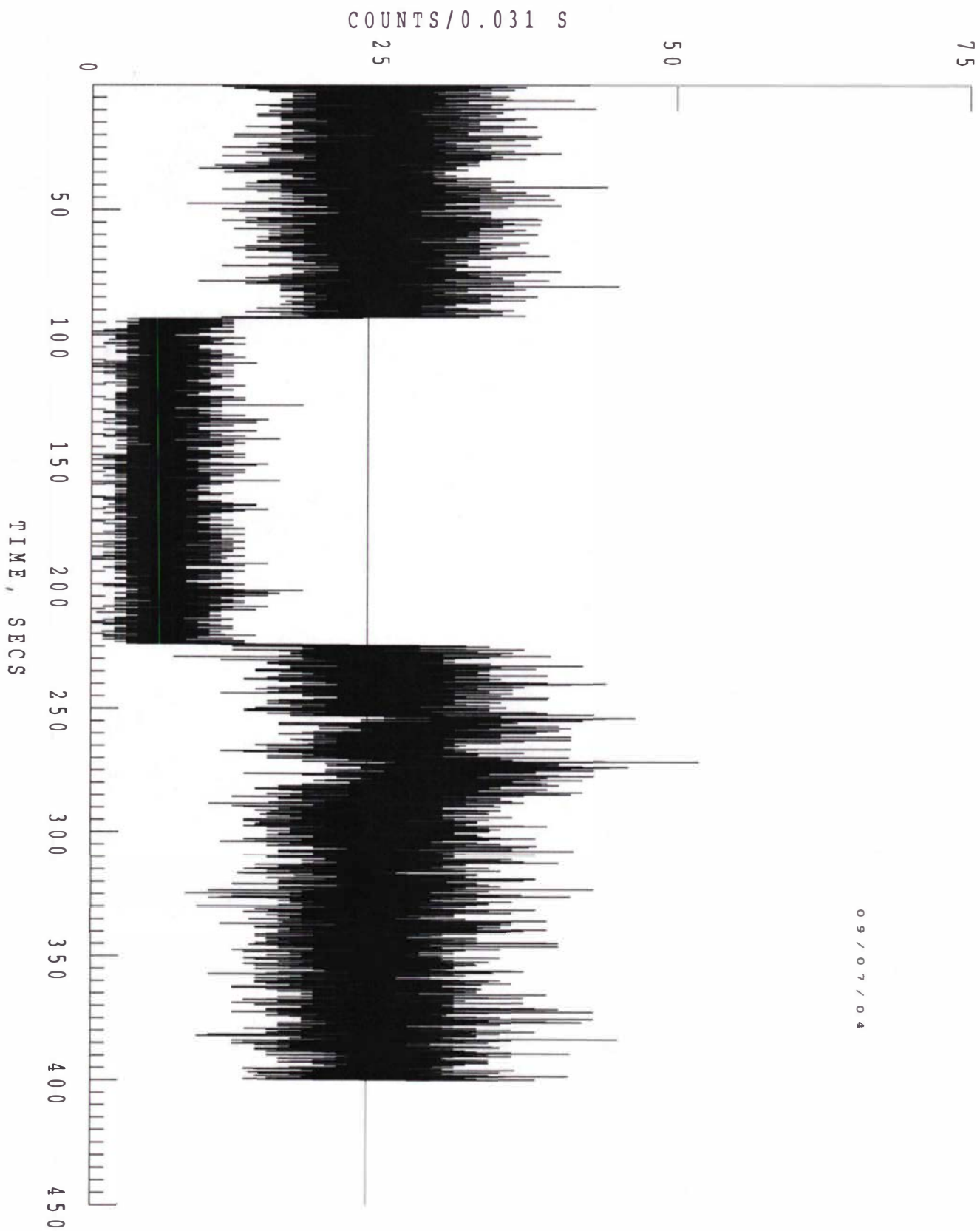
HESSI

09/07/04

3383.000

(GHETE_9999_1_20040709_03583)

25- 150 keV



09/07/04

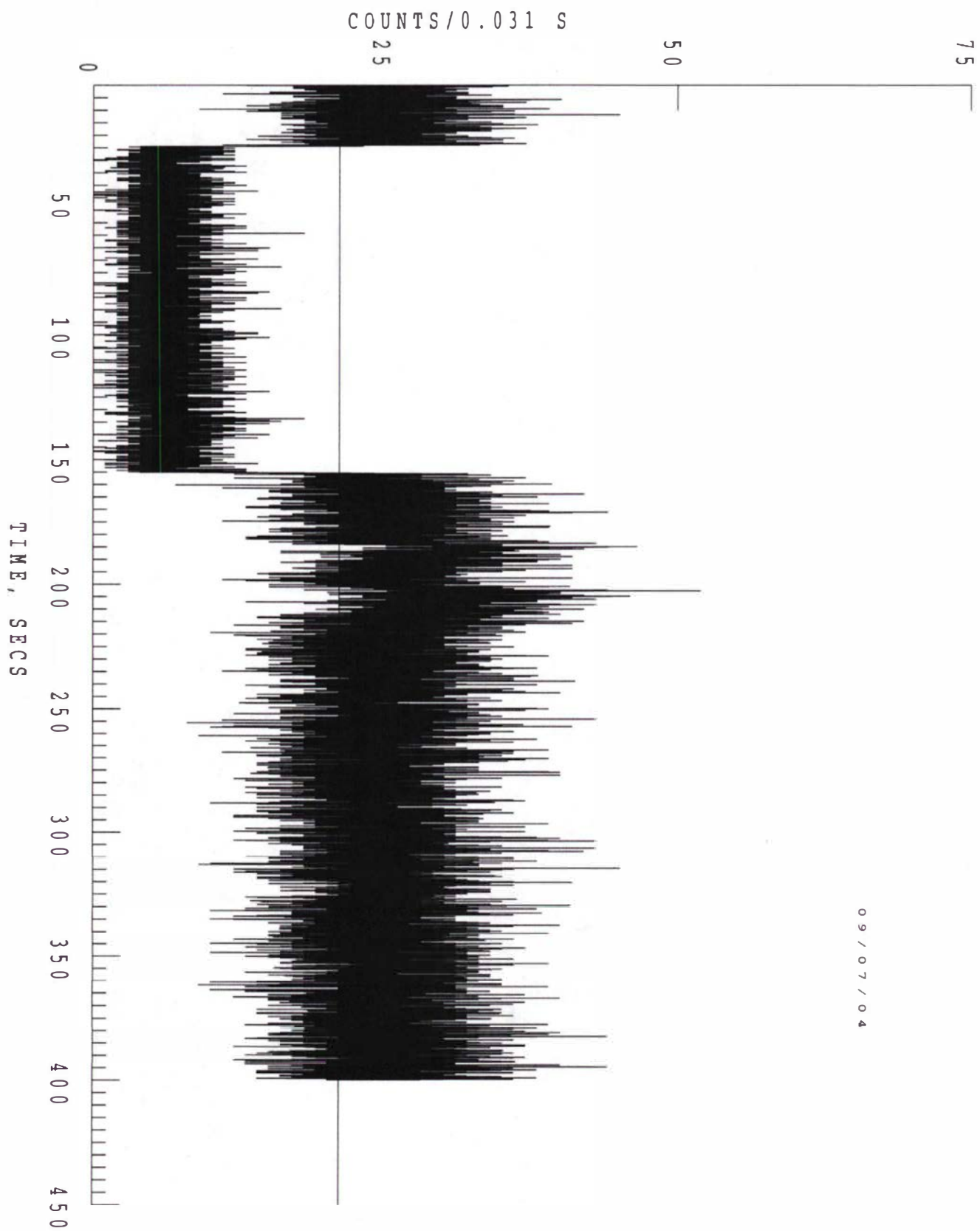
From hops@space.mit.edu Thu Jul 8 18:28:47 2004
Date: Thu, 8 Jul 2004 21:29:45 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: khurley@sunspot.ssl.berkeley.edu
Subject: Trigger Notice to IPN

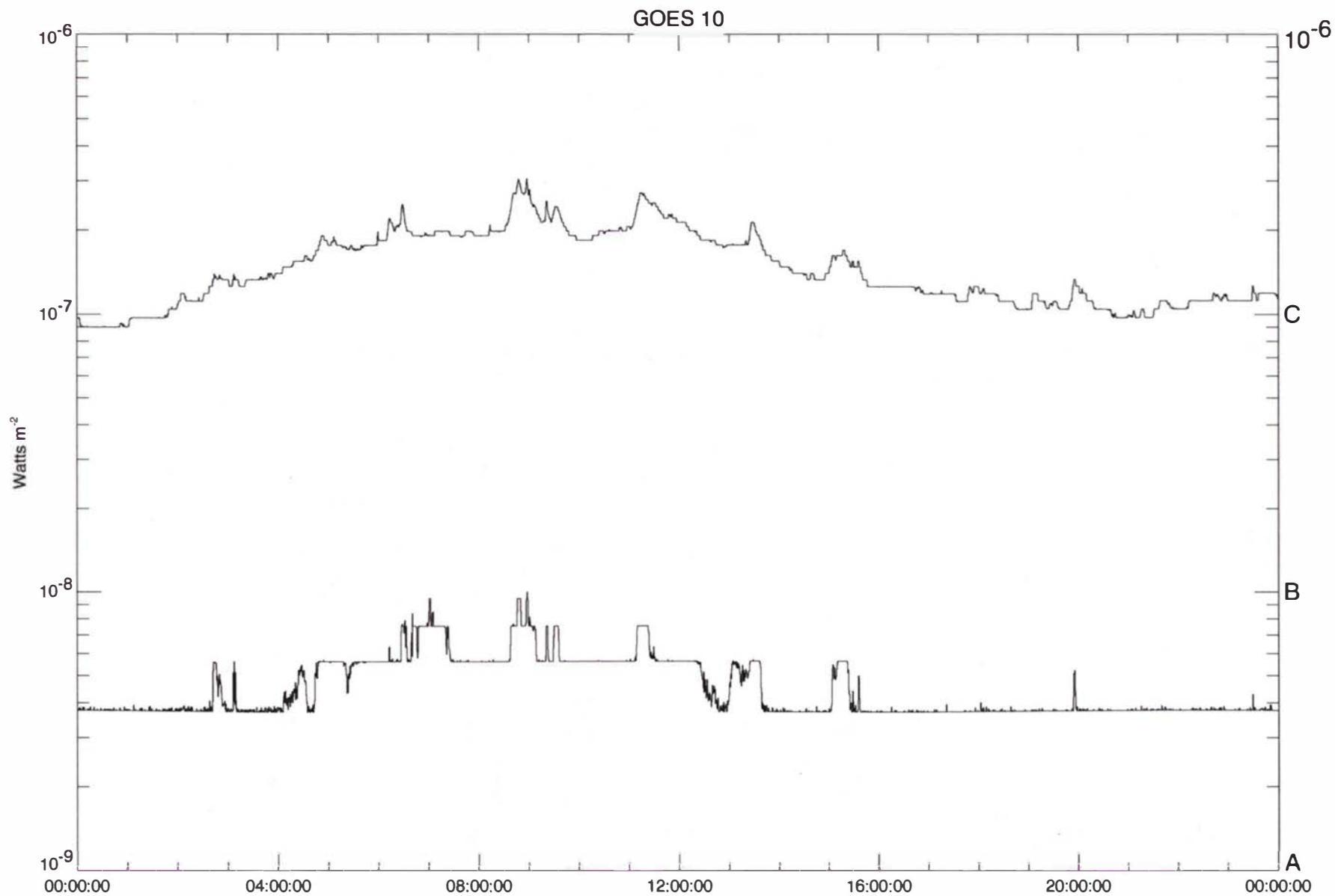
TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Fri Jul 9 01:29:15 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13195 TJD; 191 DOY; 04/07/09
GRB_TIME: 3652.63 SOD {01:00:52.63} UT
TRIGGER_SOURCE: Carlo's trigger robot
GAMMA_RATE: Not computed, sorry
SC_Z_RA: No idea, 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

HESSI

09/07/04 3452.000 (GHETE_9999_1_20040709_03652)

25- 150 keV





Data Start: 04/07/09, 0000:00

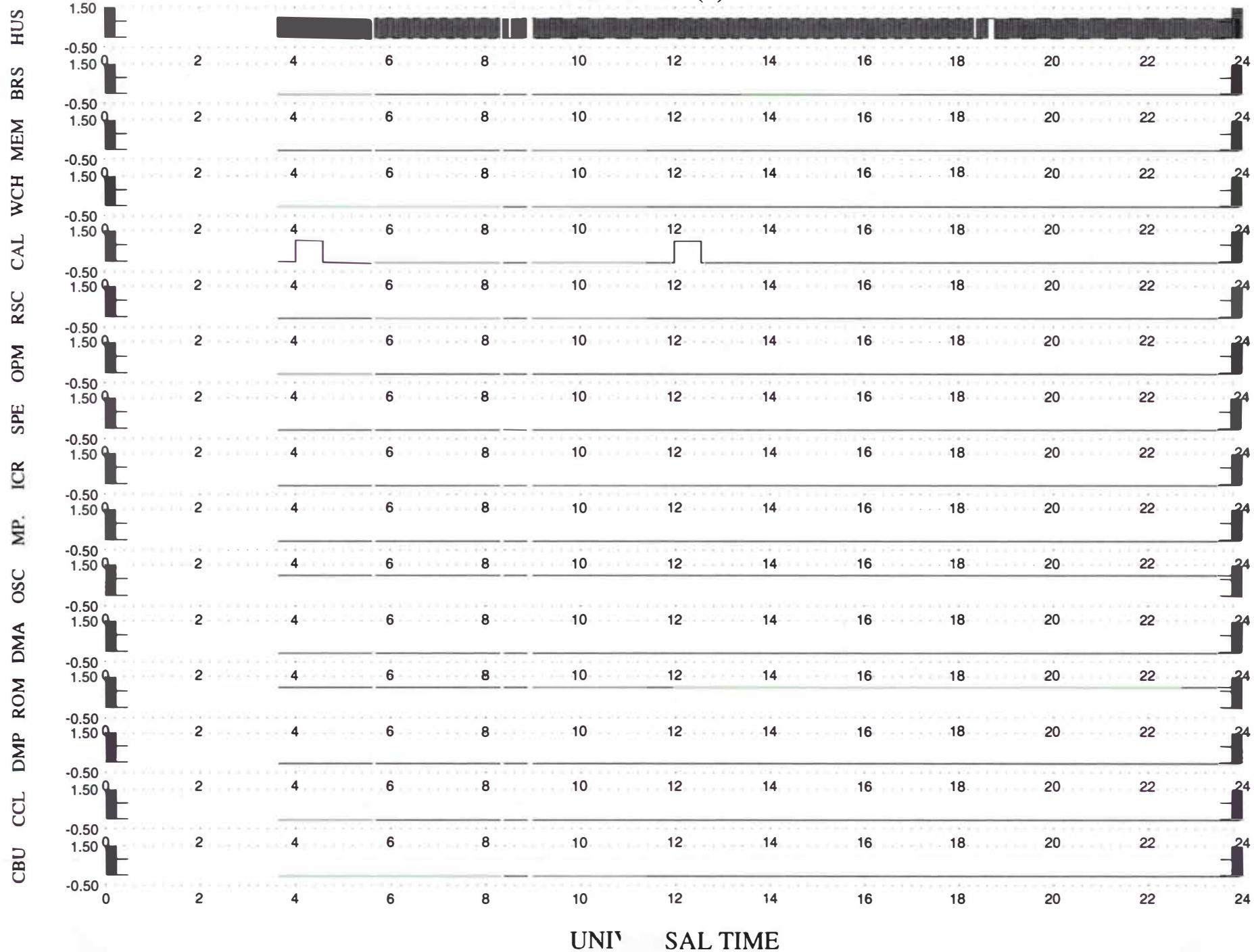
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

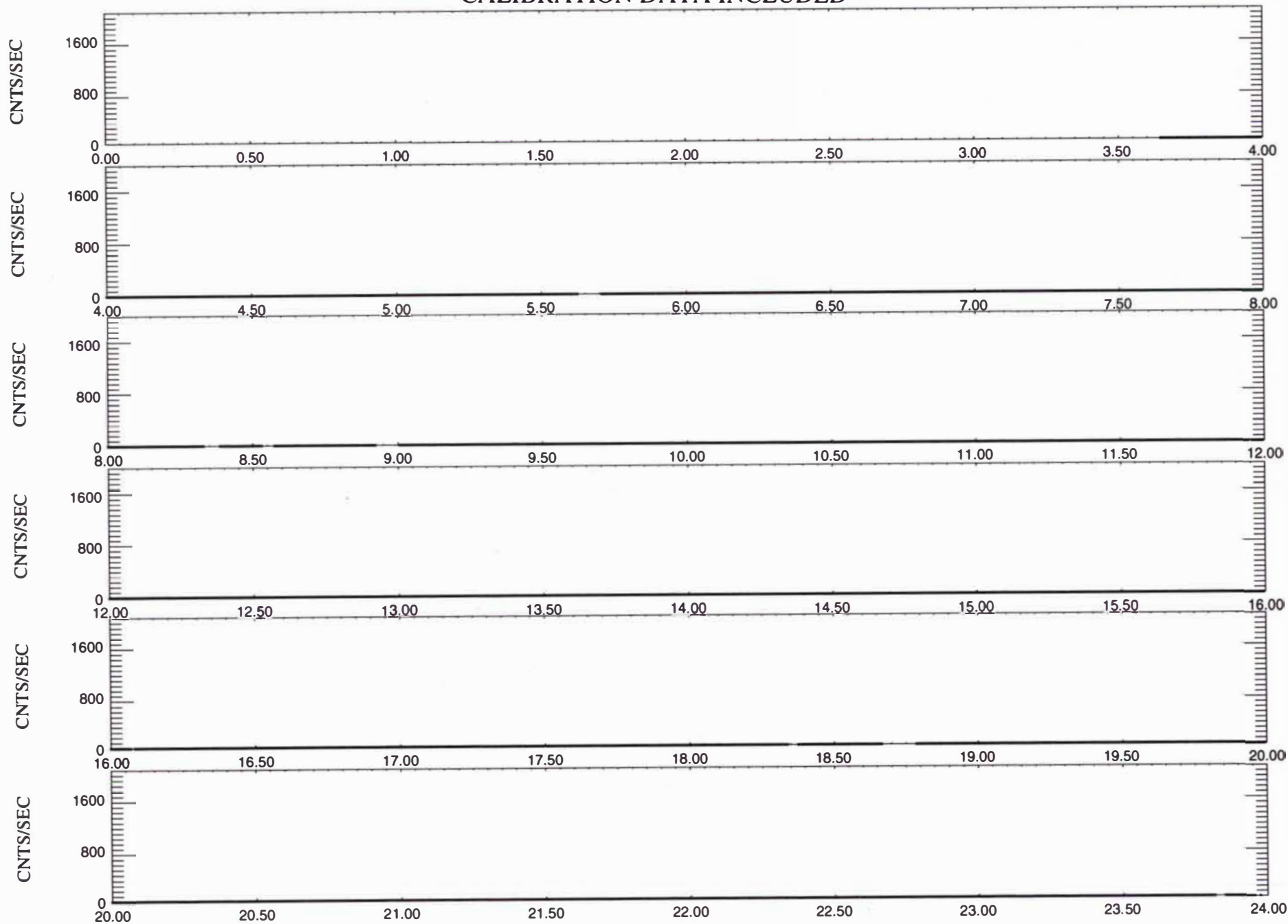
Plot created: 04/07/10, 0827

Sample average = 10

NO BURST (2)



CALIBRATION DATA INCLUDED



UNIV SAL TIME

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

10/07/04 DOY 192 Julian 2453197.50000 [est. sct = 0019 9c78 319d f175]

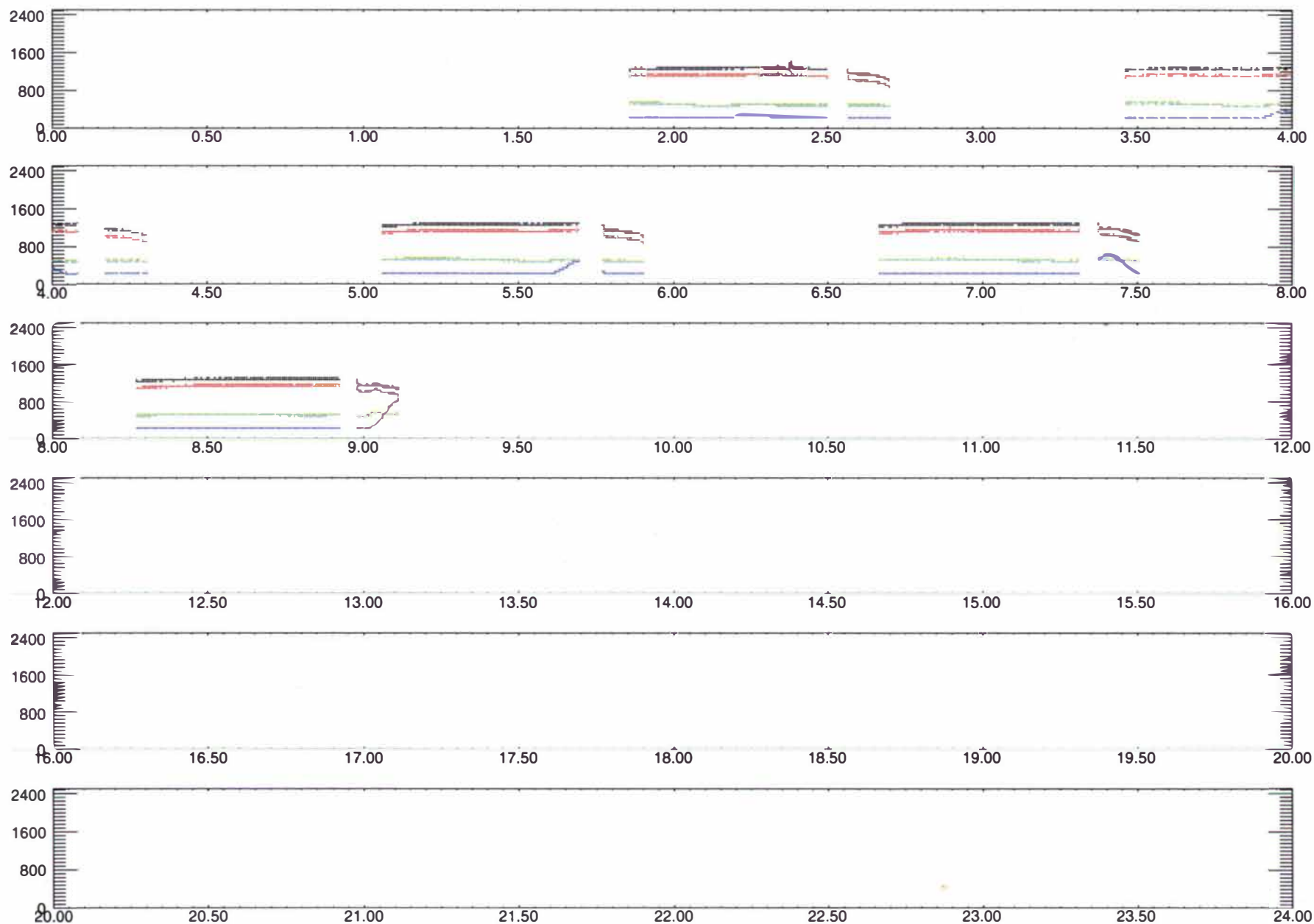
Chan 1:[E1=18 E2=103]
Channel 1 + 800

Chan 2:[E3=18 E4=78]
Channel 2 + 600

Chan 3:[E5=20 E6=510]
Channel 3 + 400

Chan 4:[E6=510 ->]
Channel 4 + 200

CNTS/SEC/DET
CNTS/SEC/DET
CNTS/SEC/DET
CNTS/SEC/DET
CNTS/SEC/DET
CNTS/SEC/DET



RS UT

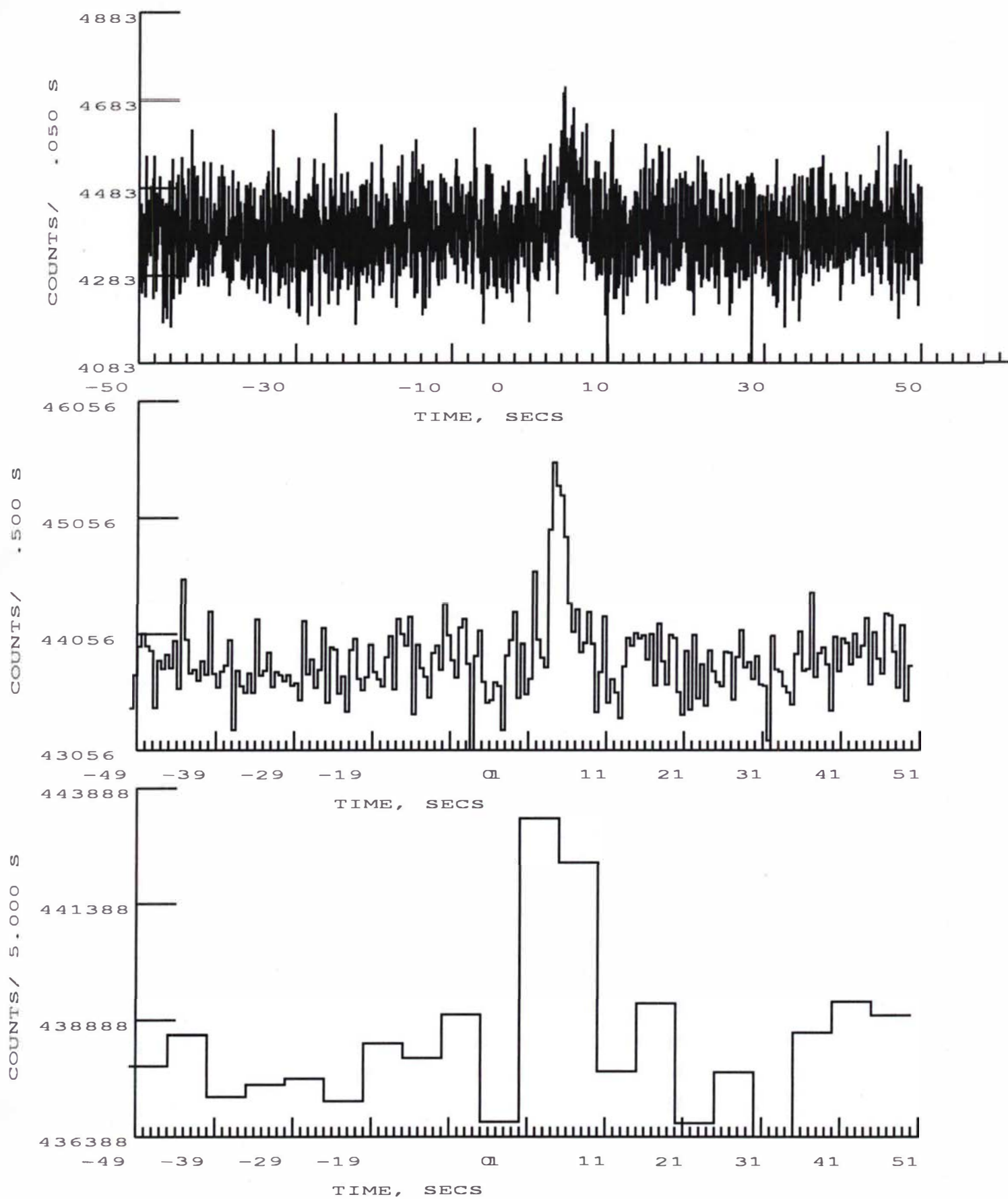
INTEGRAL

11/07/04

16138.000

04:28:58.0

26/09/13



KONUS

07/11/04 16090.814

04:24:58

10- 50 keV

50- 200 keV

200- 750 keV

COUNTS/2.944 S

4300-

DETECTOR 2 - N. ECLIPHTIC

3300-

2300-

1300-

300

20

40

60

80

100

120

140

TIME, SECS

08/04/08

KONUS

07/11/04 16090.814

10- 50 keV

50- 200 keV 200- 750 keV

COUNTS/2.944 S

3400

2400

1400

400

20

40

60

80

100

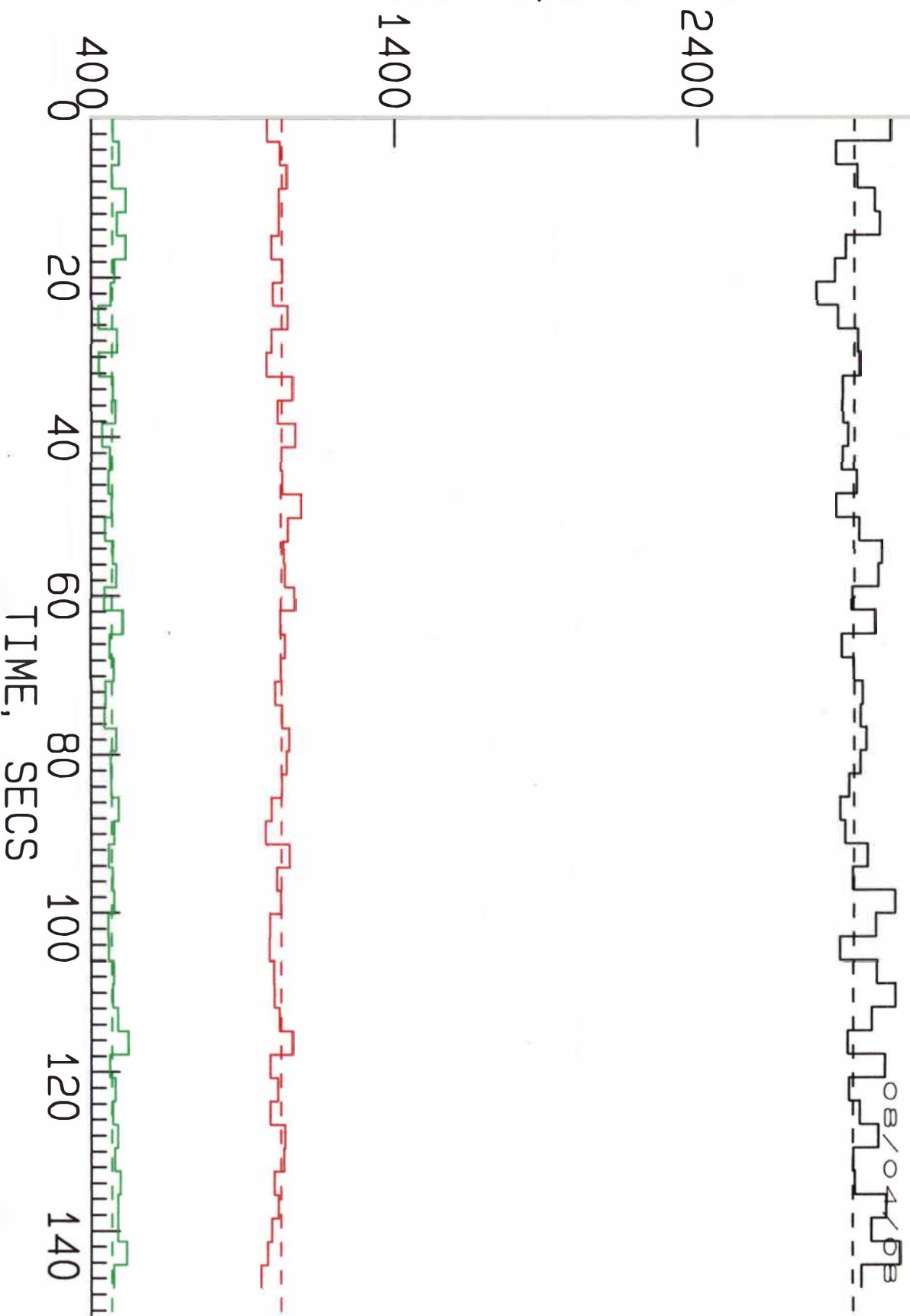
120

140

DETECTOR 1 - S. ECLIPHTIC

TIME, SECS

08/04/98



KONUS

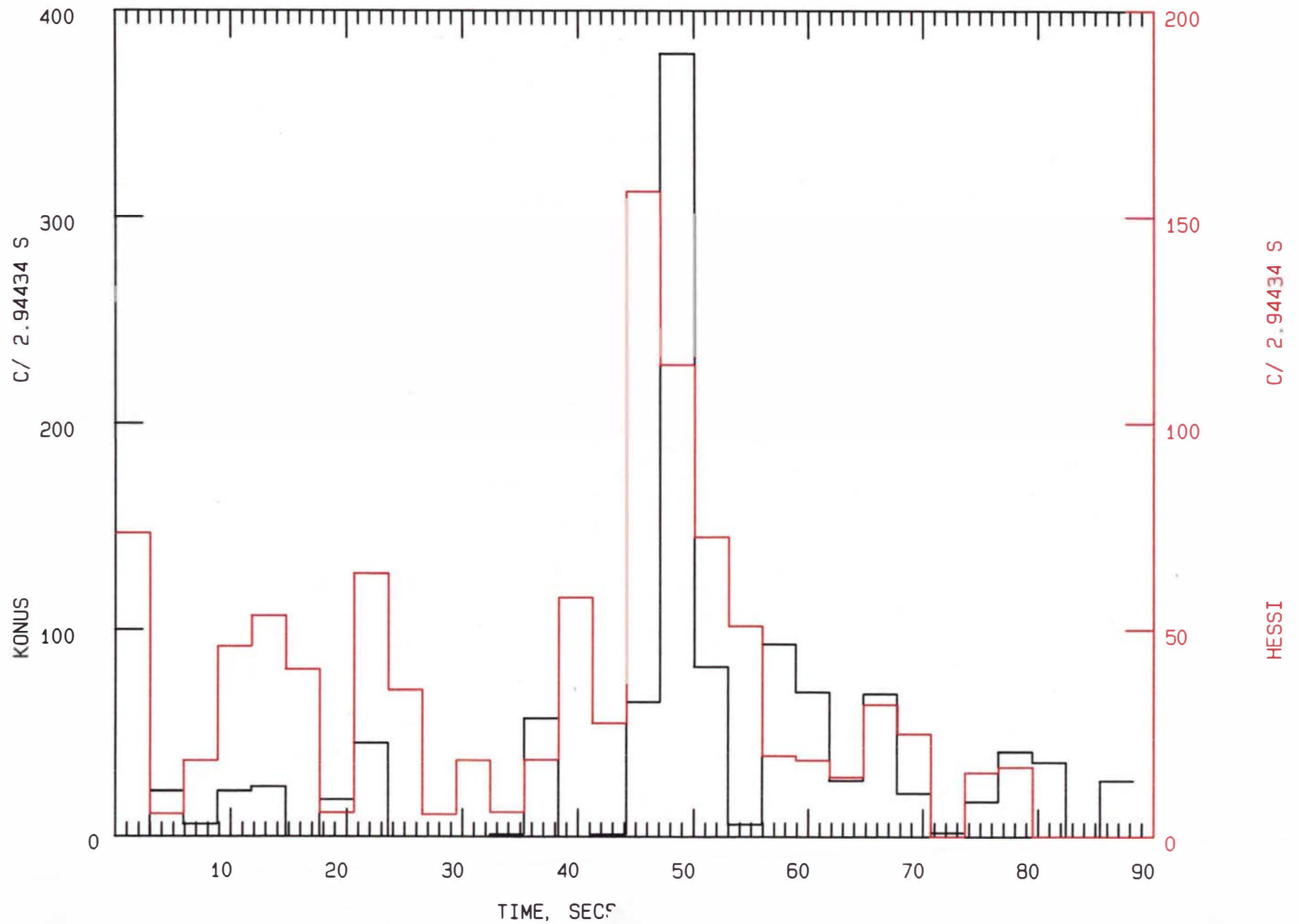
-HESSI

CORRELATION

07/11/04

16090.814

8/ 4/ 8



KONUS

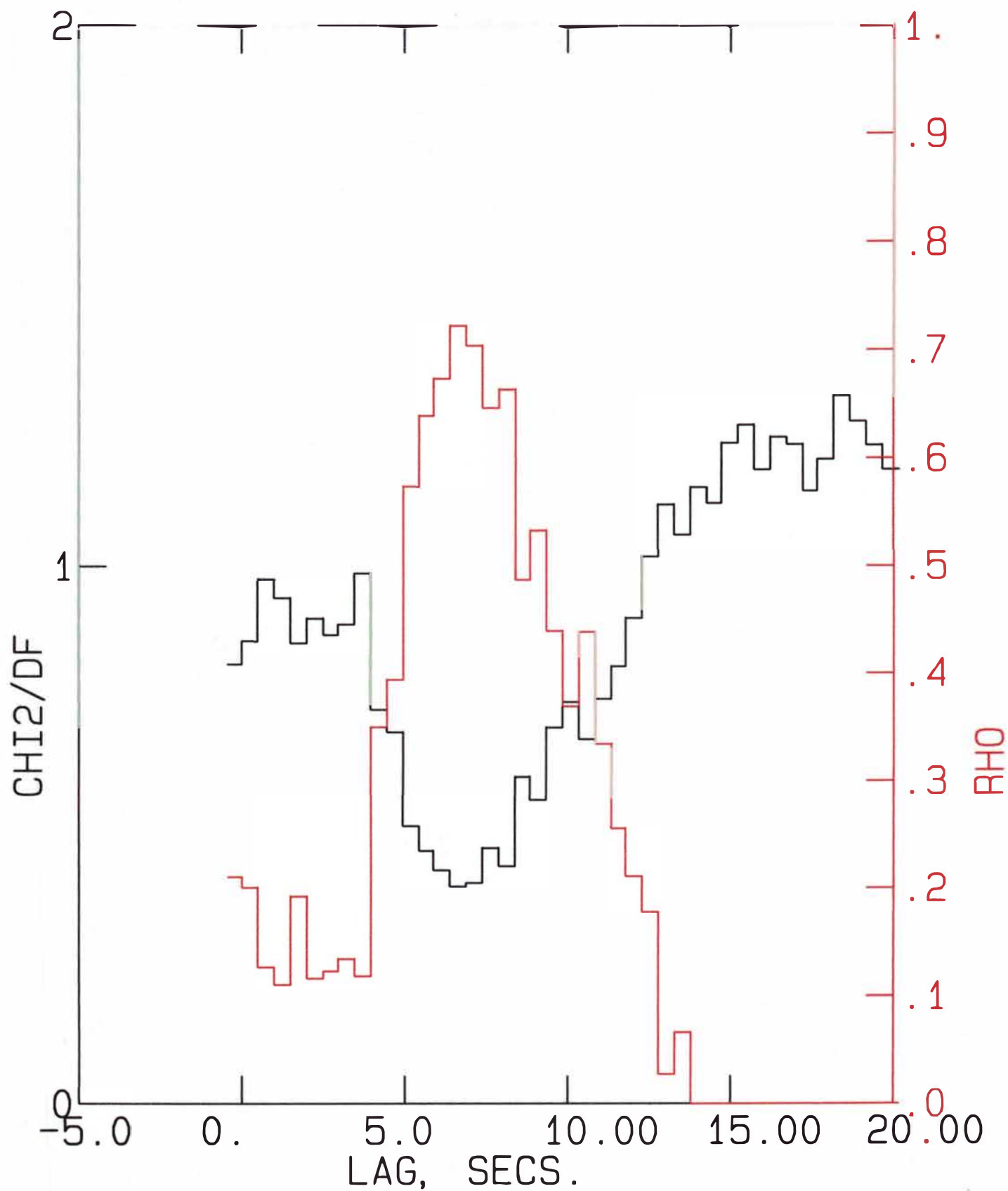
-HESSI

CORRELATION

07/11/04

16090.814

8/ 4/ 8



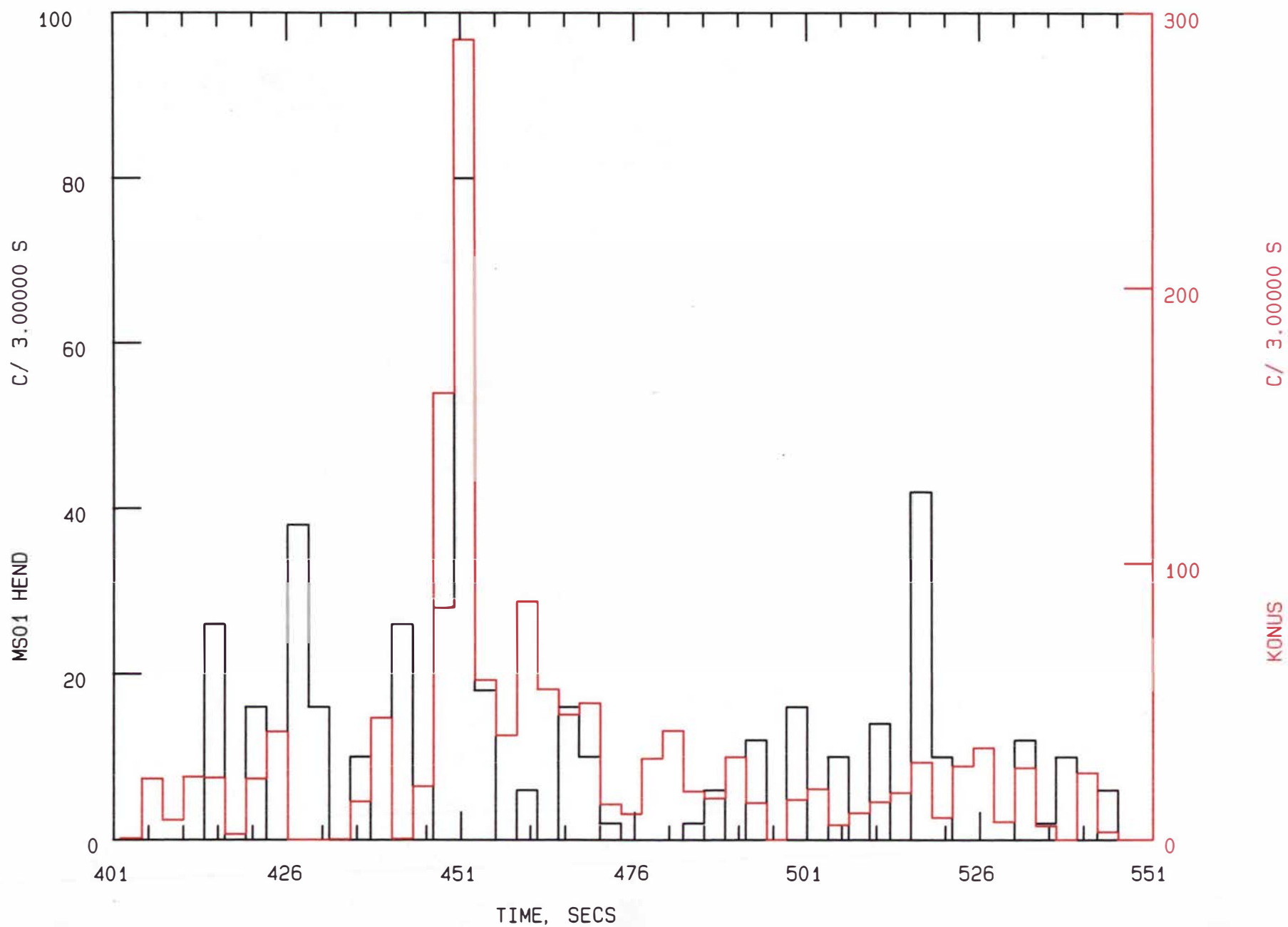
MS01 HEND -KONUS

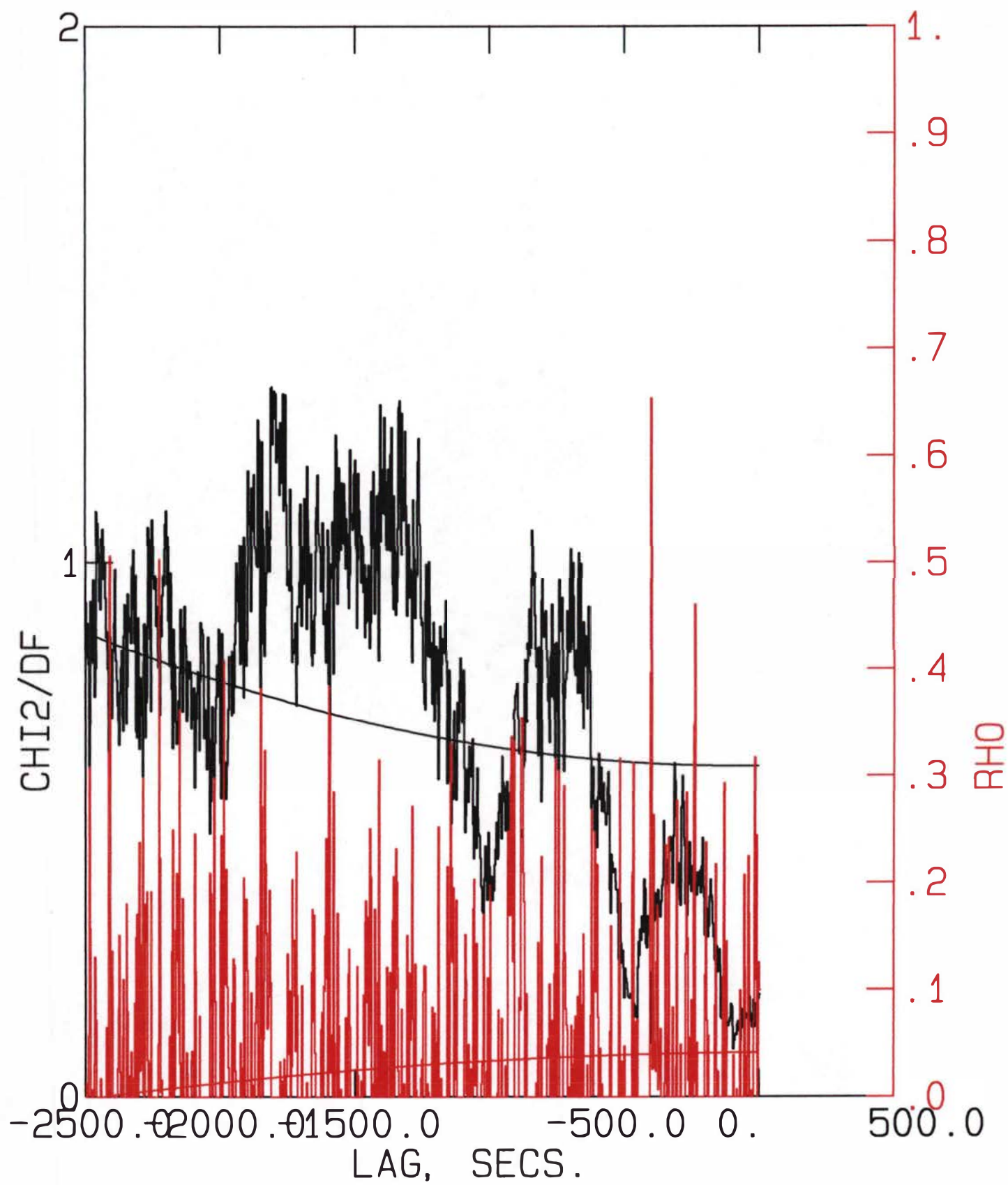
CORRELATION

11/07/04

14810.539

8/ 4/ 8





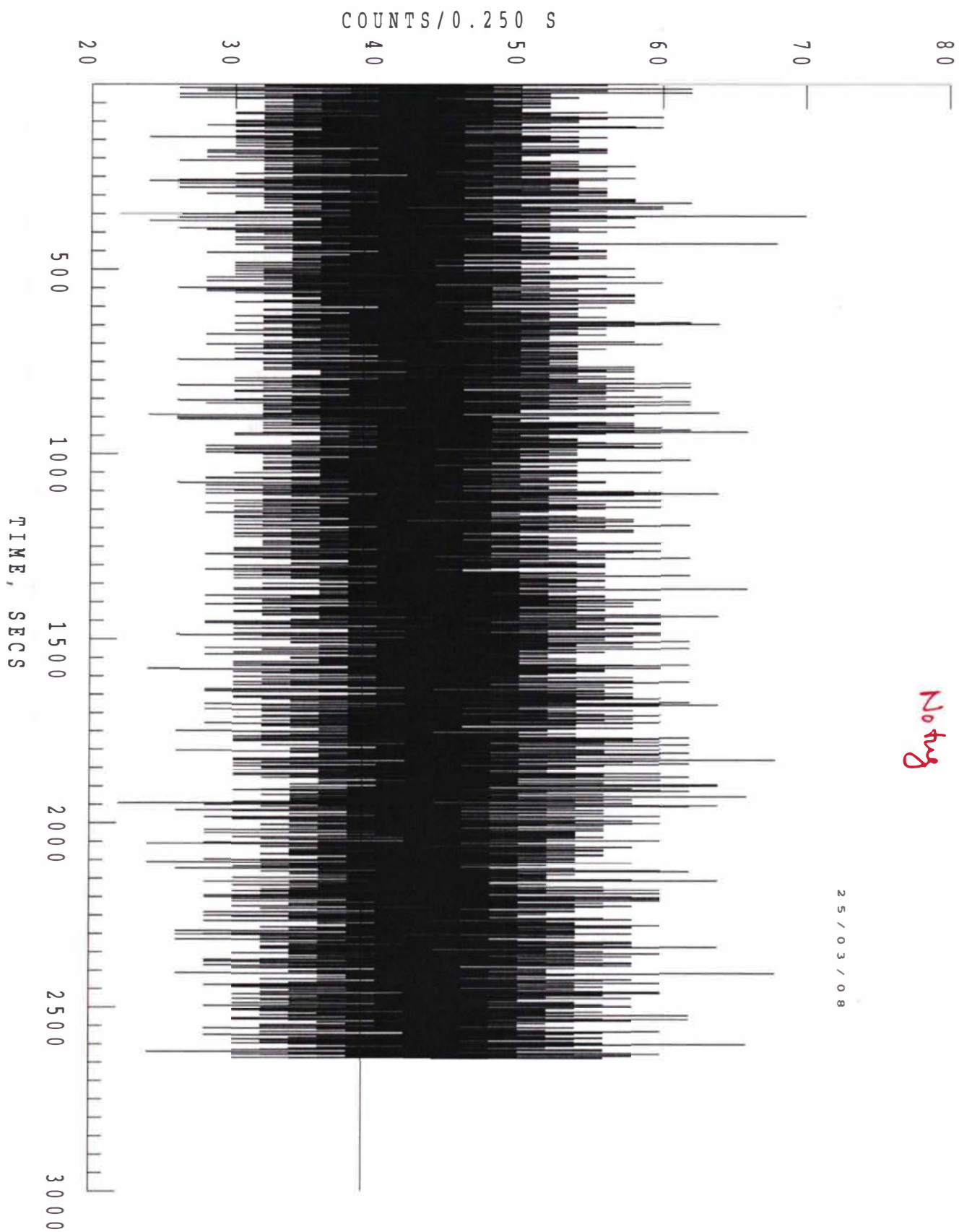
MS01

11/07/04

14810.539

E

50 - 3000 keV

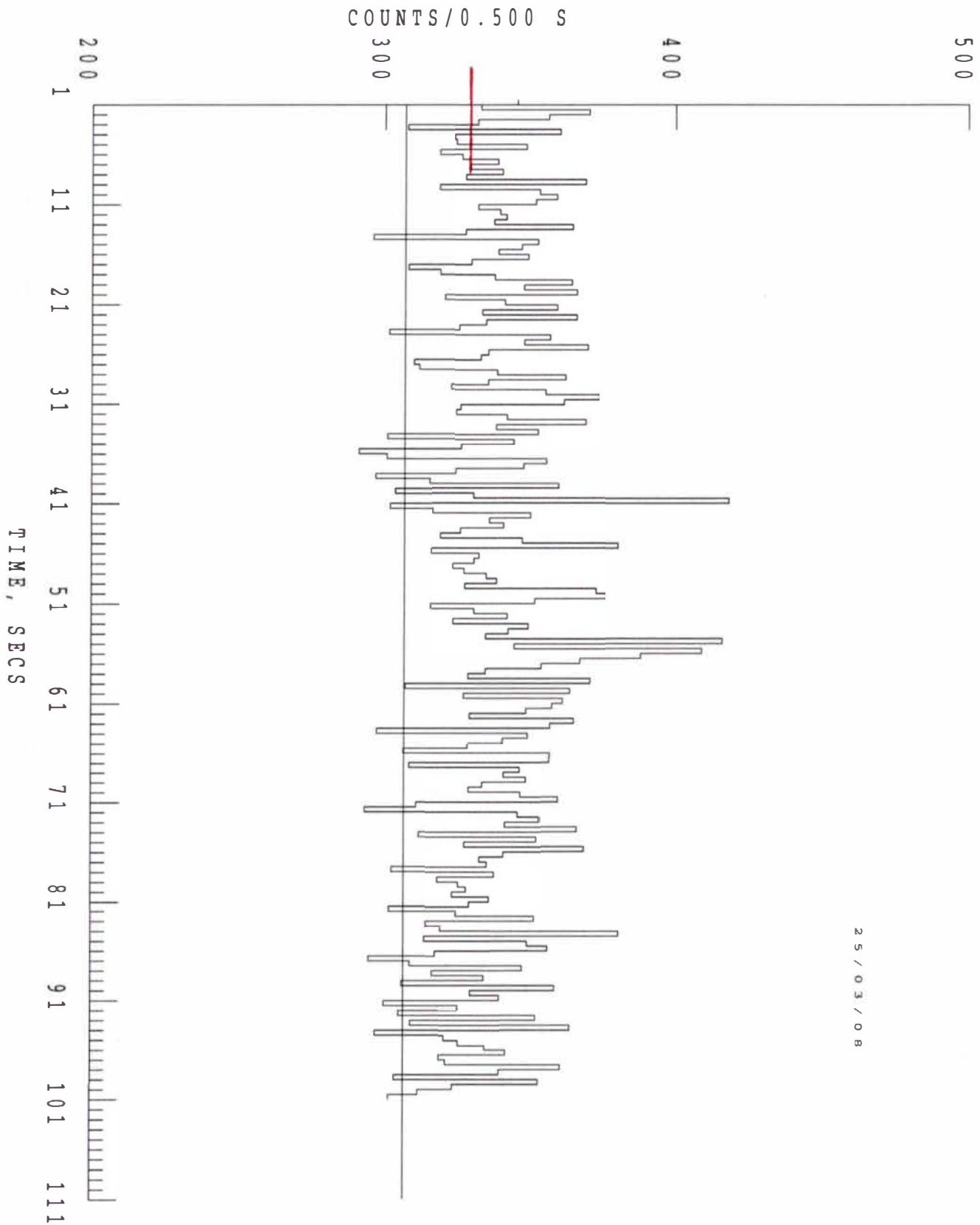


HESSI

11/07/04 16087.000 (KONUS_RI_20040711_16138)

E

50- 200 keV



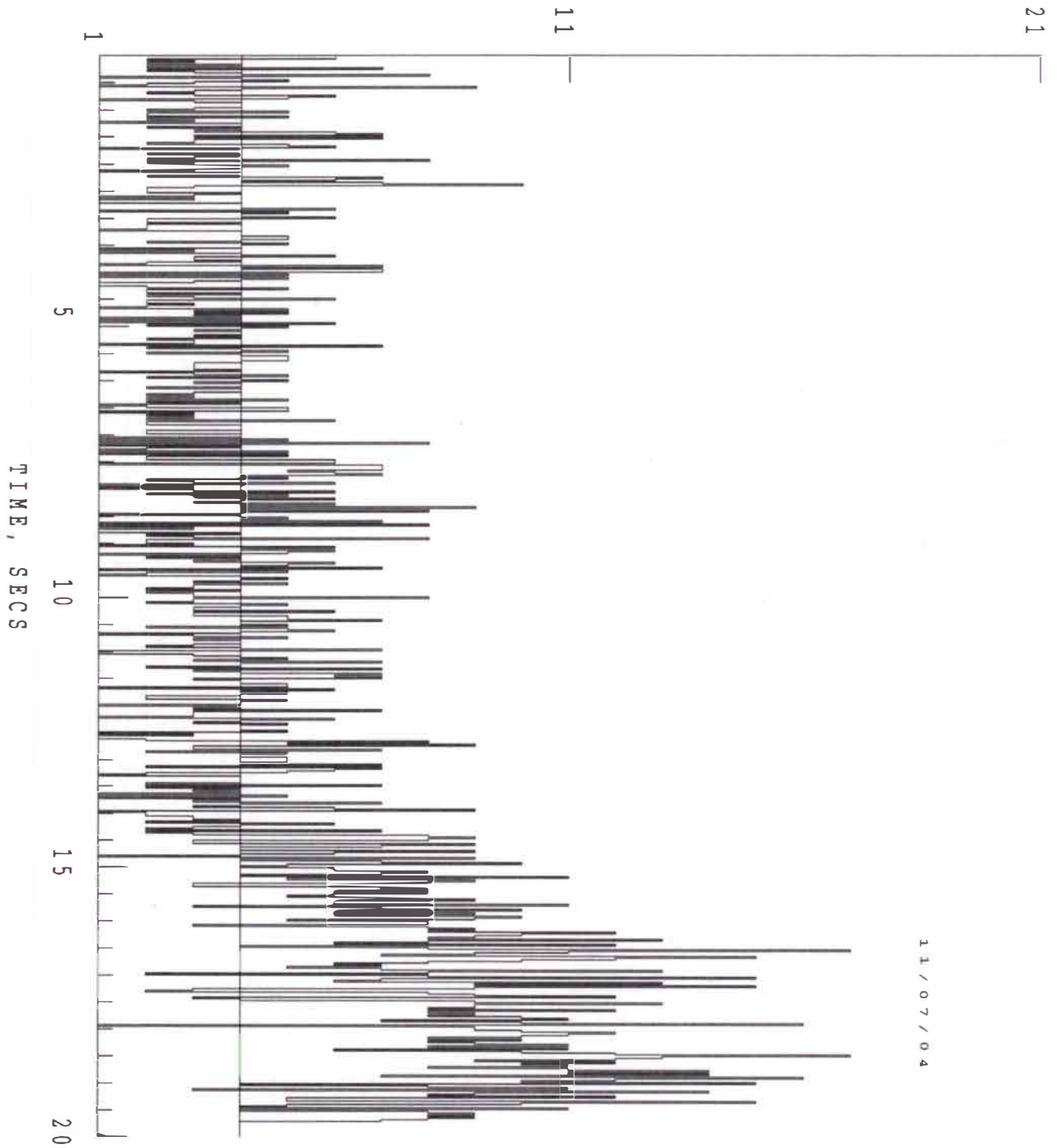
MO

11/07/04

27793.574

116- 337 keV

COUNTS/0.032 S



KONUS

10- 50 keV

04/07/11 26486.080

50- 200 keV 200- 750 keV

COUNTS/2.943 S

7800

5300

2800

DETECTOR 2 - N. ECLIPTIC

27486 s GOES Solar event

06/08/04

300
0
500
1000
1500
2000
2500
TIME, SECS

KONUS

04/07/11 26486.080

10- 50 keV

50- 200 keV 200- 750 keV

COUNTS/2.943 S

5300

4300

3300

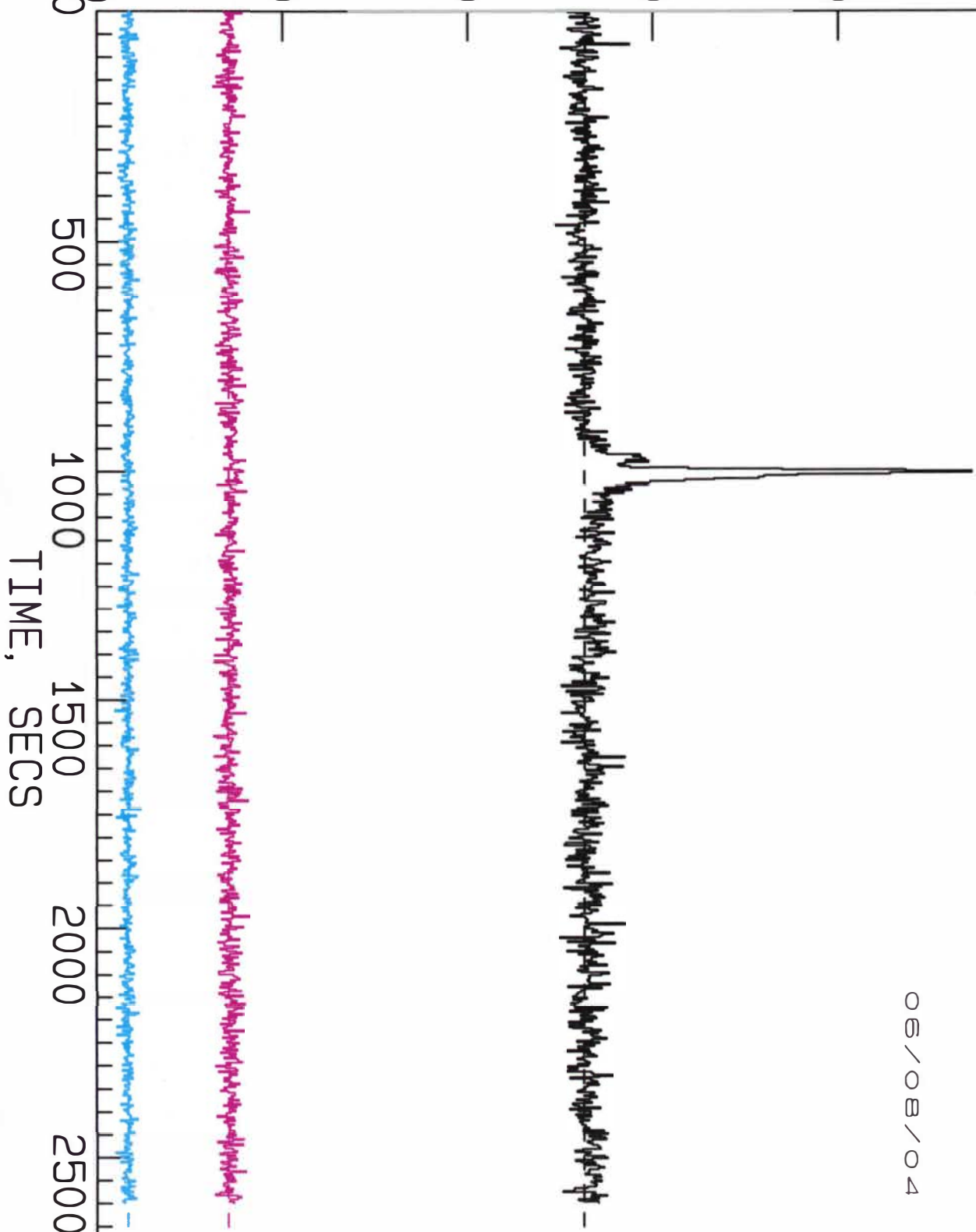
2300

1300

300

DETECTOR 1 - S. ECLIPTEIC

06/08/04

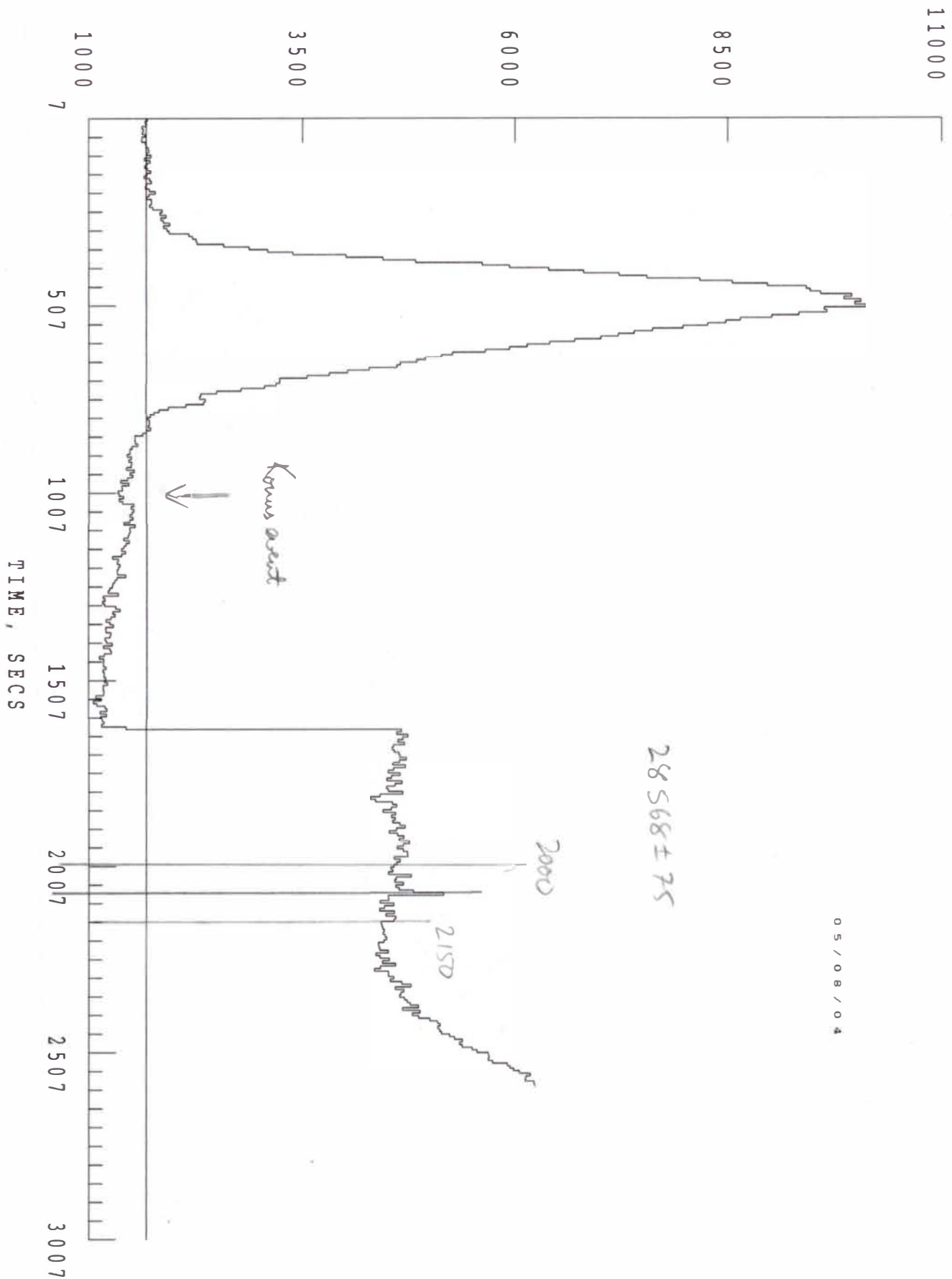


HESSI

11/07/04 26493.000 (mo_20040711_27793)

25- 150 keV

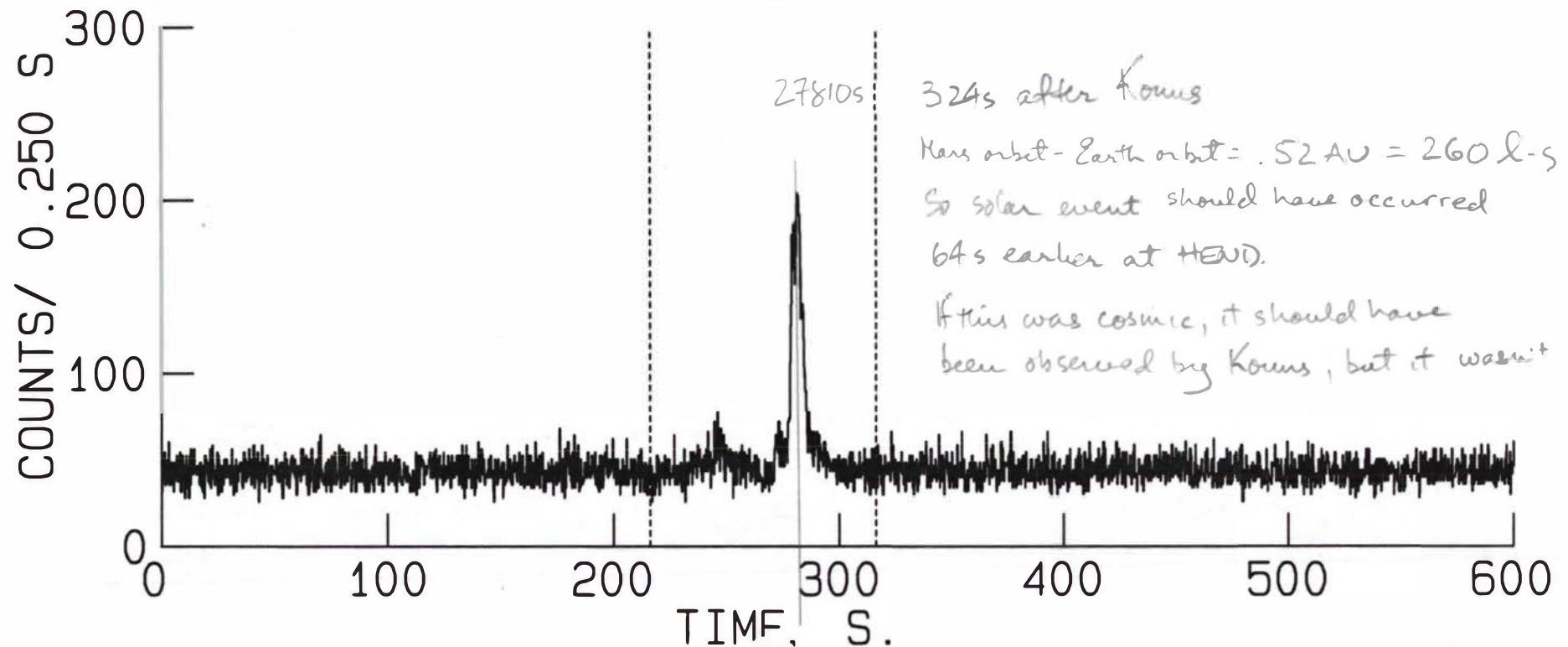
COUNTS/7.000 S



MS01 HEND
11/07/04 27530.301 s
50-3000 keV

06/08/04

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS

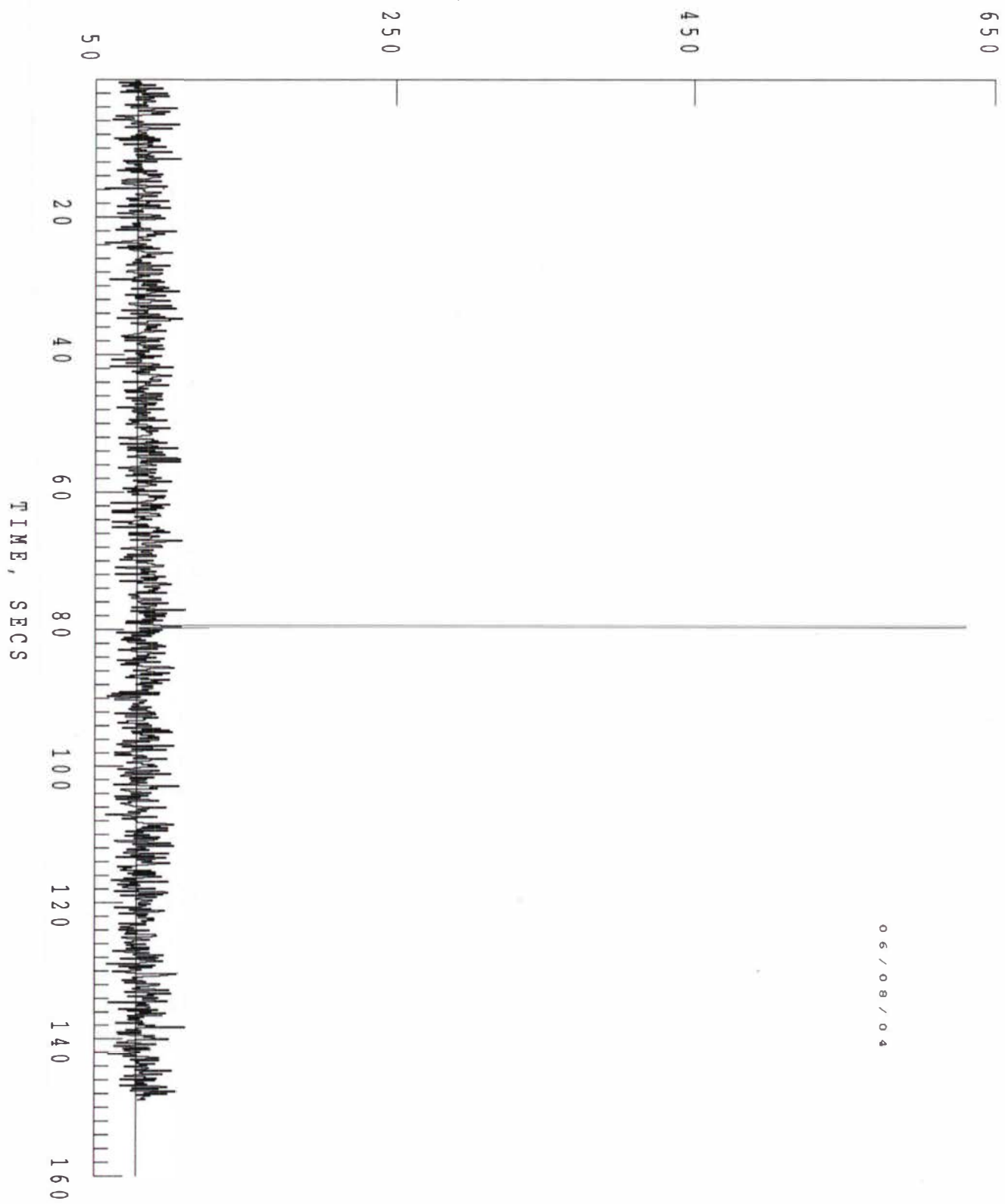


HESSI

11/07/04 28493.000 (mo_20040711_28568)

25- 150 keV

COUNTS/0.125 S



From owner-hete-science@space.mit.edu Mon Jul 26 02:43:54 2004
Date: Mon, 26 Jul 2004 11:39:38 +0200
From: Jean Luc Atteia <atteia@ast.obs-mip.fr>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; fr-FR; rv:1.2.1) Gecko/20030225
Accept-Language: en-us
MIME-Version: 1.0
To: hete-science@space.mit.edu
Subject: [hete-science] XRB ?
X-Virus-Scanned: by amavisd-new at ast.obs-mip.fr
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by space.mit.edu id i6Q9iIj6
X-CanItPRO-Stream: admin
X-Spam-Score: 0.6 () RATWR10_MESSID
X-Scanned-By: CanIt (www . canit . ca)

I continue to explore July events...

There is nice untriggered burst (probable XRB) on july 11th at 31222 sec.
It is also seen by the WXM and I wonder whether we have a loc.

There are many more events, but I am asking this one because it does have
a light curve 'slightly' different from the most common XRBs.

Regards,

JL

--

Jean-Luc Atteia

atteia@ast.obs-mip.fr

2T

Observatoire Midi-Pyrénées
14 Avenue E. Belin
31400 Toulouse - France

Phone 0 561 332 884
Internat. 33 561 332 884
Fax. 0 561 332 840

From owner-hete-science@space.mit.edu Mon Jul 26 03:12:04 2004
Date: Mon, 26 Jul 2004 19:12:26 +0900
From: "Yujin E.Nakagawa" <yujin@phys.aoyama.ac.jp>
To: atteia@ast.obs-mip.fr
Cc: yujin@phys.aoyama.ac.jp, hete-science@space.mit.edu
Subject: Re: [hete-science] XRB ?
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0 ()
X-Scanned-By: CanIt (www . canit . ca)

Dear Jean-Luc,

> There is nice untriggered burst (probable XRB) on july 11th at 31222 sec.
> It is also seen by the WXM and I wonder whether we have a loc.

I think that the event is a burst at 20040711_0840. It was not seen in the YA so much, therefore I could not localize in Y direction. I attached my coarse localization result in the following. There are many sources within 5 degrees.

==== fore/background regions are:

fg(MET) 172157664.708902 -- 172157677.815912
bg(MET) 172157491.102752 -- 172157591.102838
bg2(MET) 172157760.102982 -- 172157830.103042

==== coarse location is:

X/Y	w1	w2	theta	image	S/N	inten	f_good	err_low90	err_upp90	err_low68	er
	0	1	17.620	4.6	5.0	561.3	0.720	-41.730	0.870	-25.830	
:	2	2	5.600	2.3	2.7	212.4	0.270	-31.240	9.470	-24.150	

Aspect: 773569394.3 112.388 21.168 22.955 (dt=-1040.864927)

(Ra,Dec) = (273.389, -18.385) = (18h13m33s.3, -18o23'06")

Total Error (68%) = 2229.609 arcmin

5 X-ray source(s) is (are) within 5 degrees.

G12-0SNR	(273.054 , -18.584)	delta= 0.375
GX13+1	(273.630 , -17.157)	delta= 1.249
SGR1806-20	(272.165 , -20.414)	delta= 2.338
GX9+1	(270.379 , -20.530)	delta= 3.572
GX17+2	(274.007 , -14.034)	delta= 4.390

Best Regards,

--

Yujin E. Nakagawa

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (prob_xrb_20040711_31222)

BEG TIME: 11/07/04 DOY 193 Julian 2453198.86000 UT = 08.640 08:38:24 (31104.000 secs) [sct = 0019 9c93 8d68 3b00]
 END TIME: 11/07/04 DOY 193 Julian 2453198.86250 UT = 08.700 08:41:59 (31320.000 secs) [sct = 0019 9c93 9a48 21b9]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

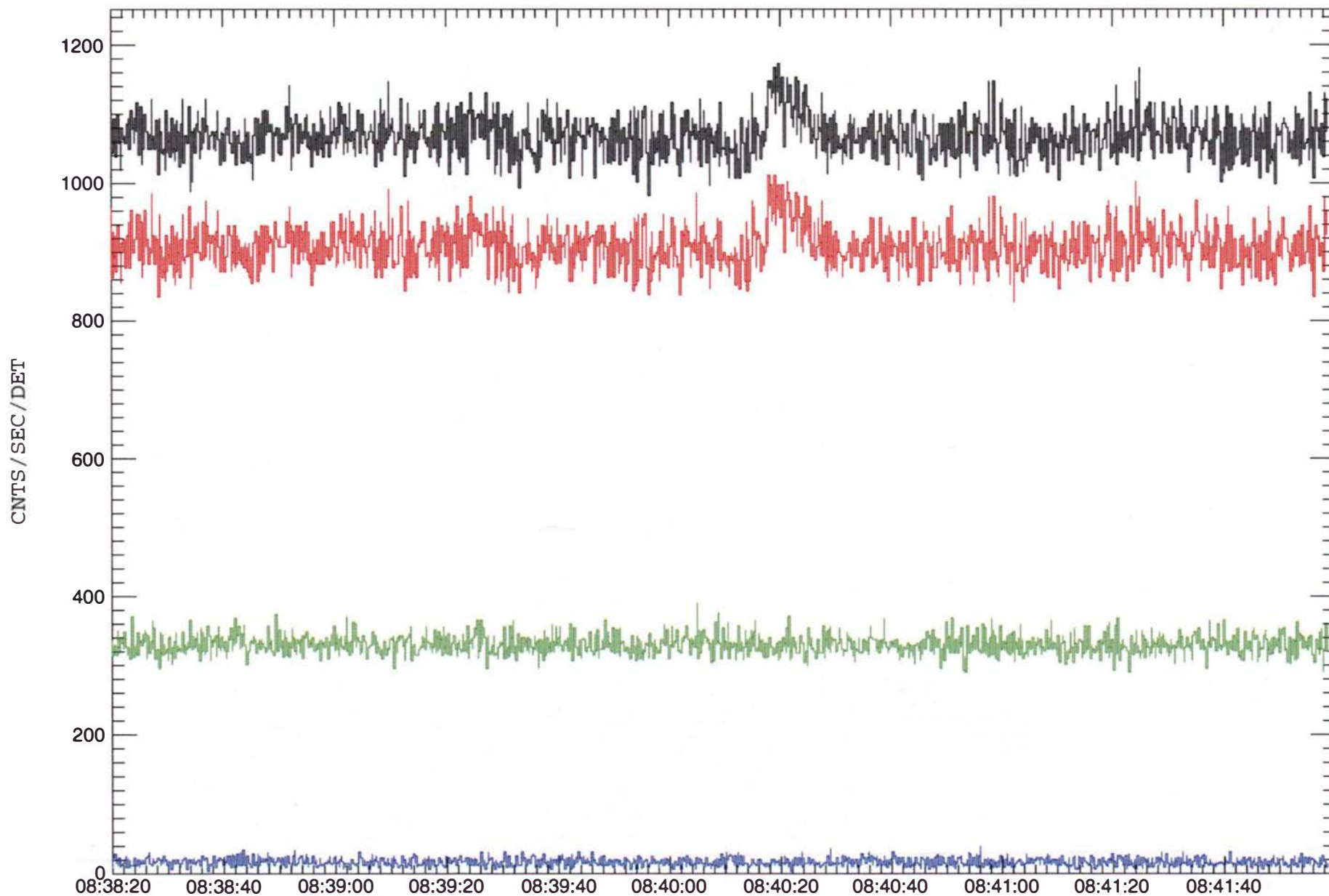
Chan 4:[E6=510 ->]

Channel 1 + 600

Channel 2 + 400

Channel 3 + 200

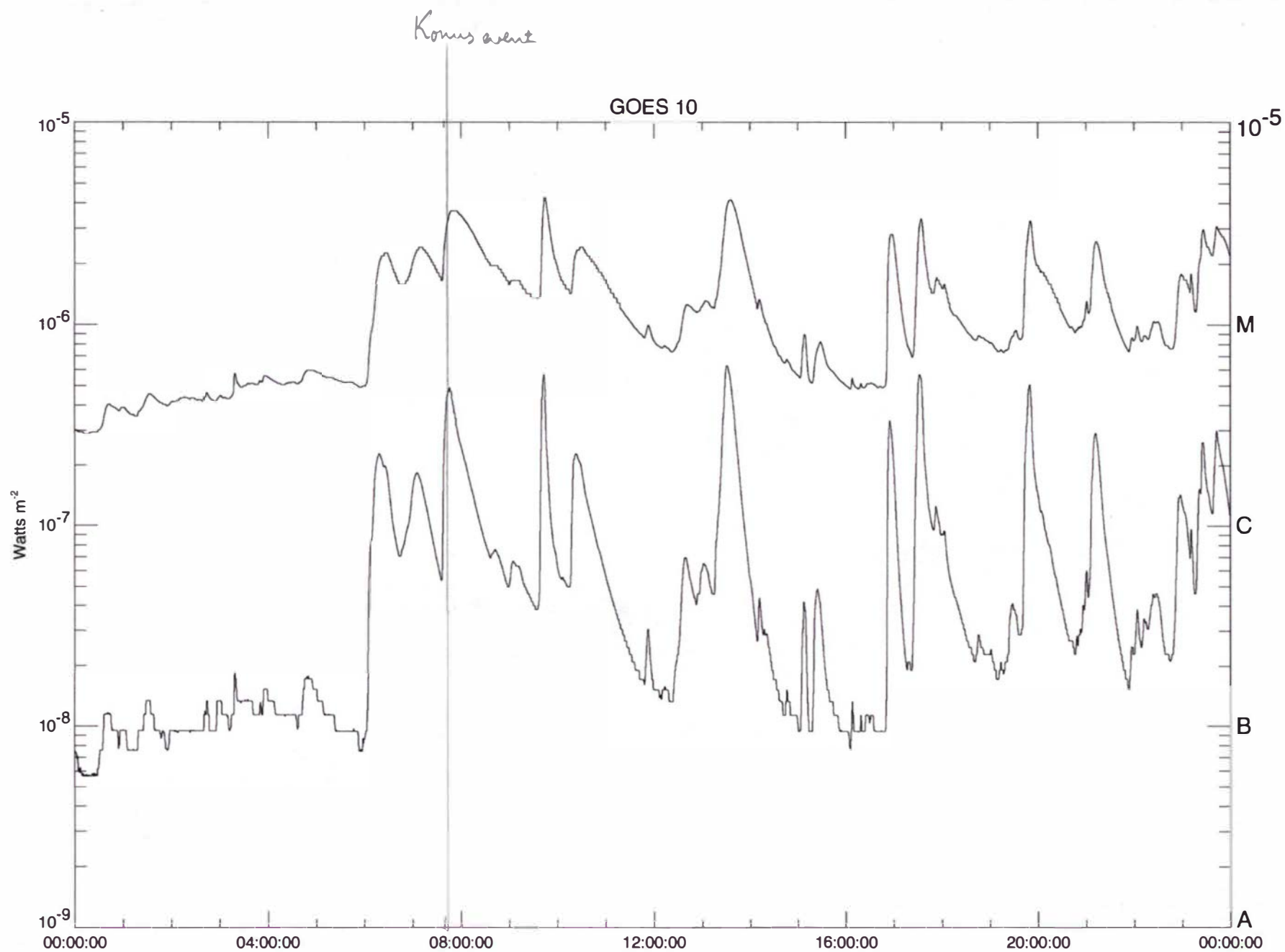
Channel 4 + 0



RS UT

From hops@space.mit.edu Sun Jul 11 19:59:11 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Mon, 12 Jul 2004 03:00:01 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Mon Jul 12 03:00:01 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13197 TJD; 193 DOY; 04/07/11
GRB_TIME: 78125.52 SOD {21:42:05.52} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.



Data Start: 04/07/11, 0000:00

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Plot created: 04/07/12, 0828

Sample average = 10

Date: Aug 9 2004

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 *N/A*

- ☐ 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; when there is no data in the database, the ephemeris is for the time requested.)
- ☐ Was Mars-blocking used?

2. For 3 Spacecraft events

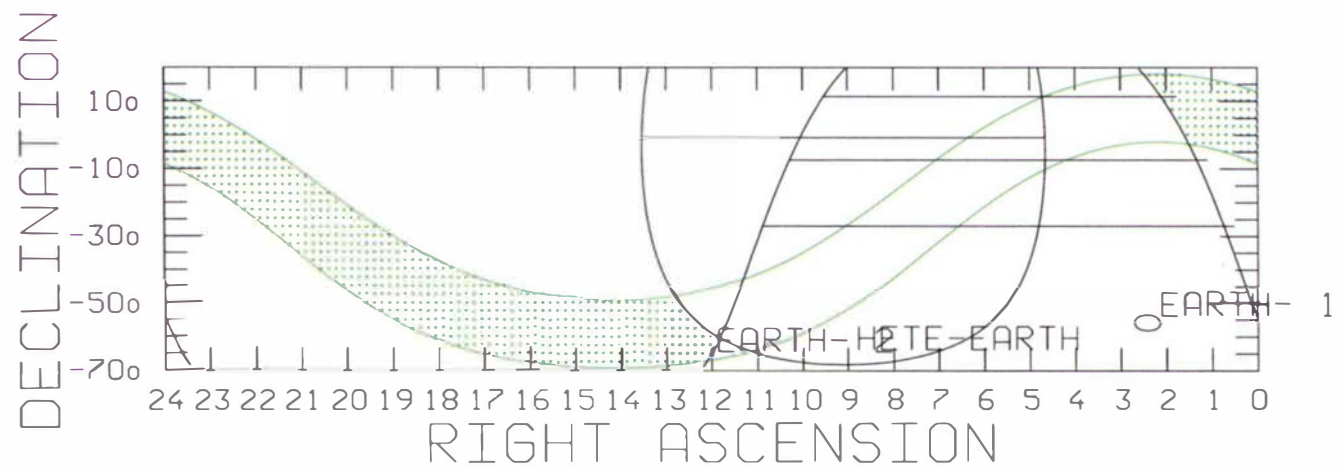
- ☐ $\Sigma 3\Delta t$'s calculated?

3. For INTEGRAL events

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

- ☐ Updated ephemeris used for bursts prior to September 30, 2003? *N/A*

-
- ☒ ACCESS database updated?



N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

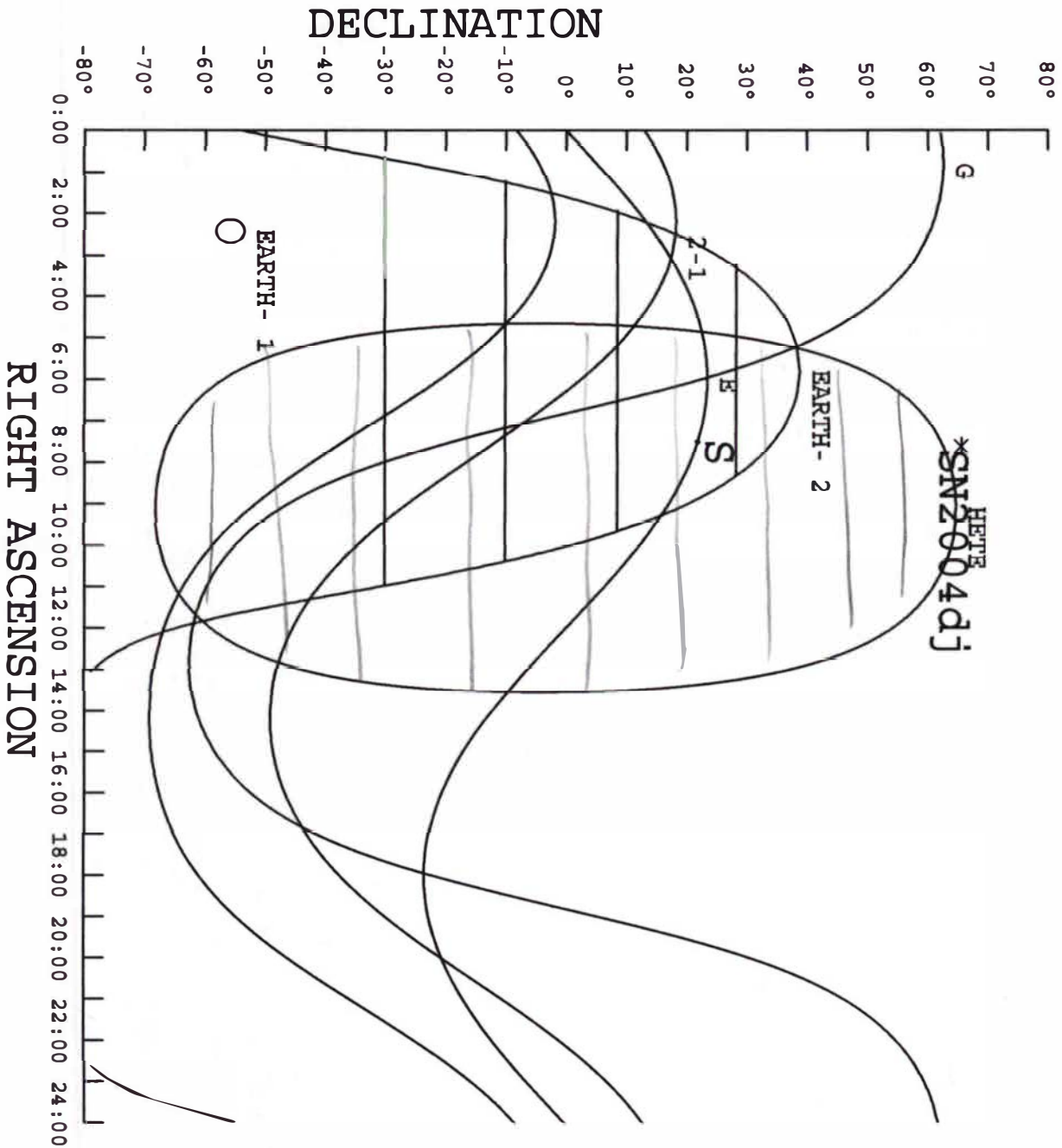
G=GALACTIC EQUATOR

1 INTEGRAL

2 RHESSI

EVENT OF JUL 12, 2004 18:32

6 / 8 / 4

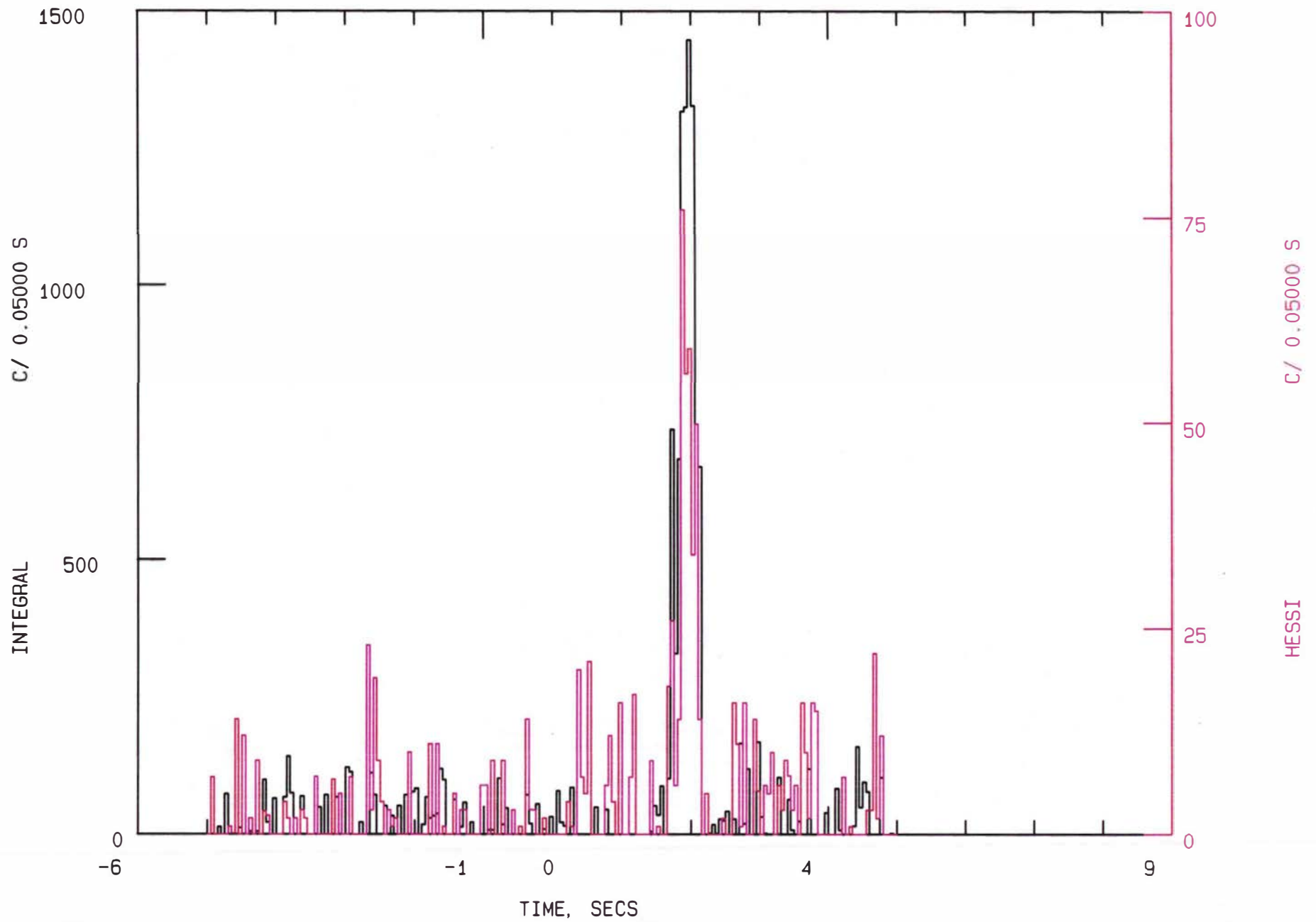


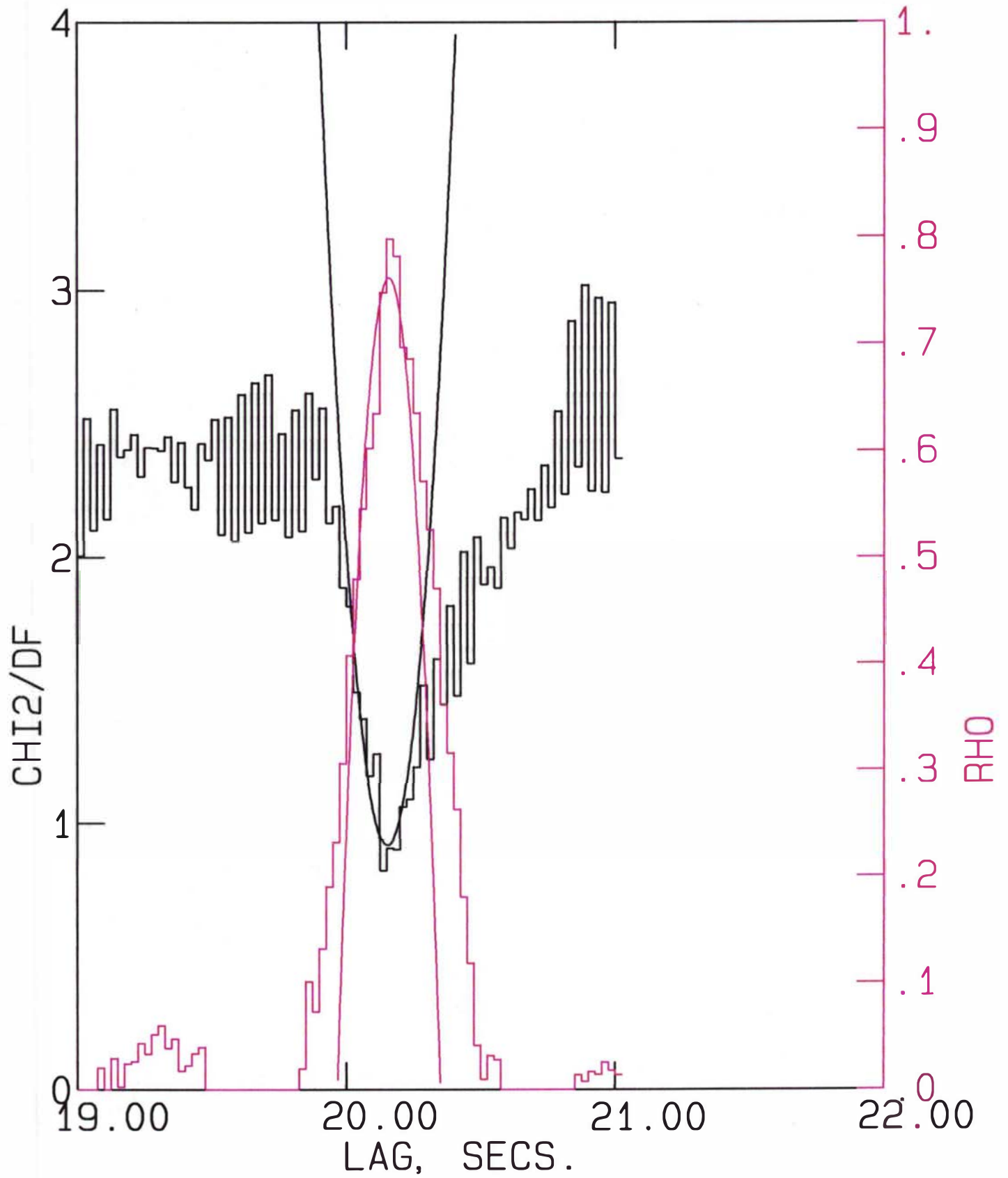
INTEGRAL -HESSI

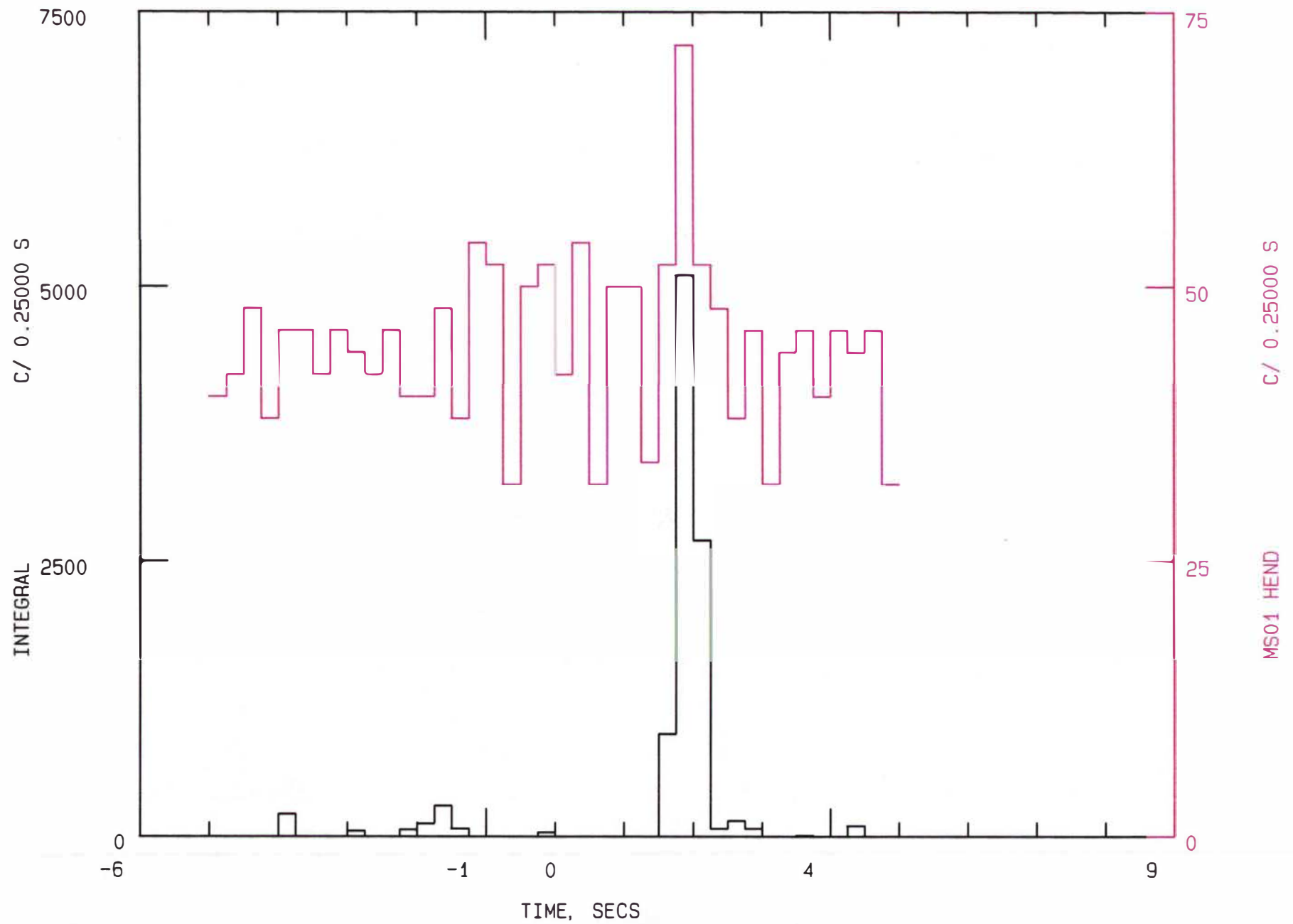
CORRELATION

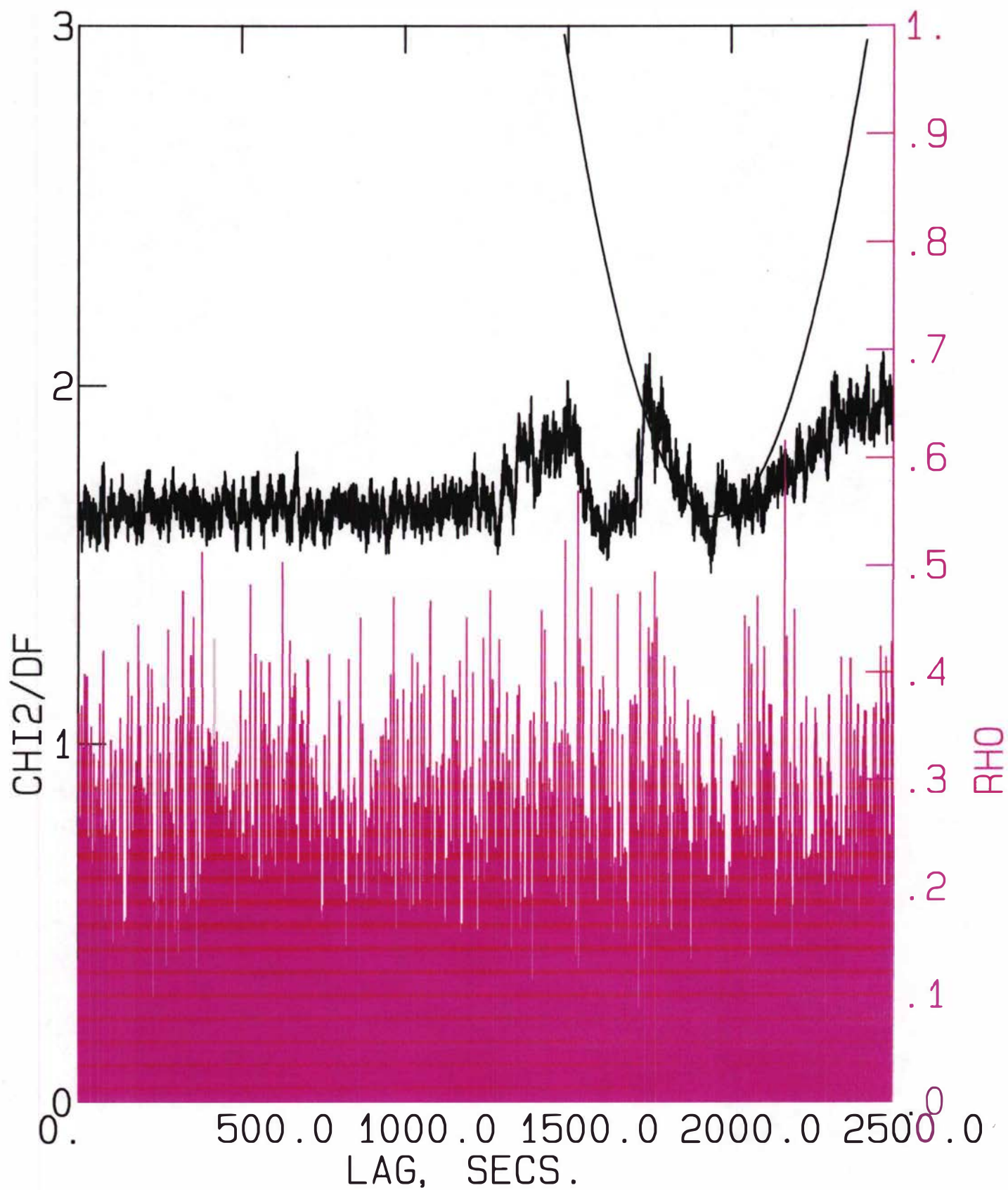
12/07/04 66744.340

6/ 8/ 4









From vxw@capella.gsfc.nasa.gov Mon Jul 12 11:32:47 2004
Date: Mon, 12 Jul 2004 14:33:41 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@sunspot.ssl.berkeley.edu
Subject: GCN/HETE_POSITION

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Mon 12 Jul 04 18:32:26 UT
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 3423, Seq_Num: 1
GRB_DATE: 13198 TJD; 194 DOY; 04/07/12
GRB_TIME: 66746.06 SOD {18:32:26.06} UT
TRIGGER_SOURCE: Trigger on the 25-400 keV band.
GAMMA_RATE: 300 [cnts/s] on a 0.160 [sec] timescale
SC_LONG: 108 [deg East]
SUN_POSTN: 112.41d {+07h 29m 39s} +21.84d {+21d 50' 23"}
MOON_POSTN: 56.80d {+03h 47m 11s} +21.74d {+21d 44' 22"}
MOON_ILLUM: 19 [%]
COMMENTS: No s/c ACS pointing info available yet.
COMMENTS: Probable GRB.

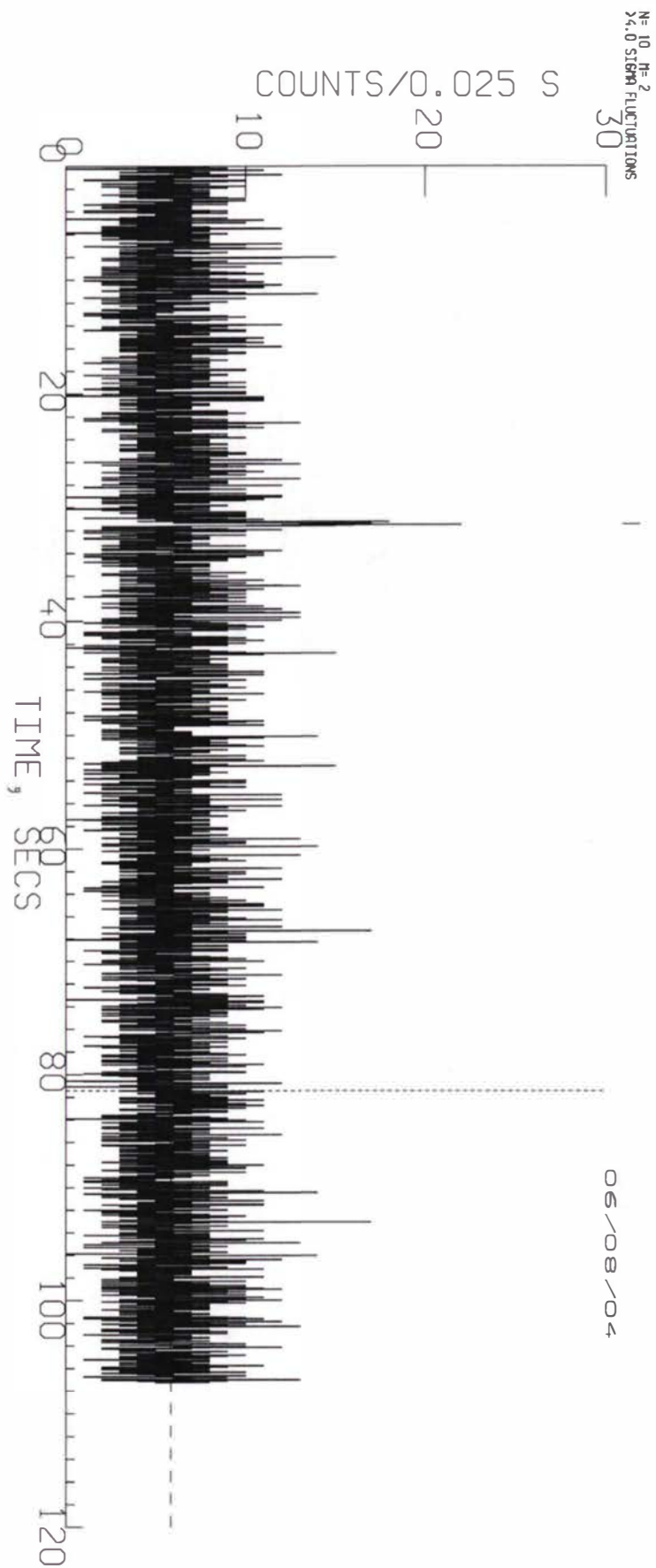
Collimator

From hops@space.mit.edu Mon Jul 12 14:57:47 2004
Date: Mon, 12 Jul 2004 17:58:47 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: khurley@sunspot.ssl.berkeley.edu
Subject: Trigger Notice to IPN

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Mon Jul 12 21:57:27 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13198 TJD; 194 DOY; 04/07/12
GRB_TIME: 66745.46 SOD {18:32:25.46} 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

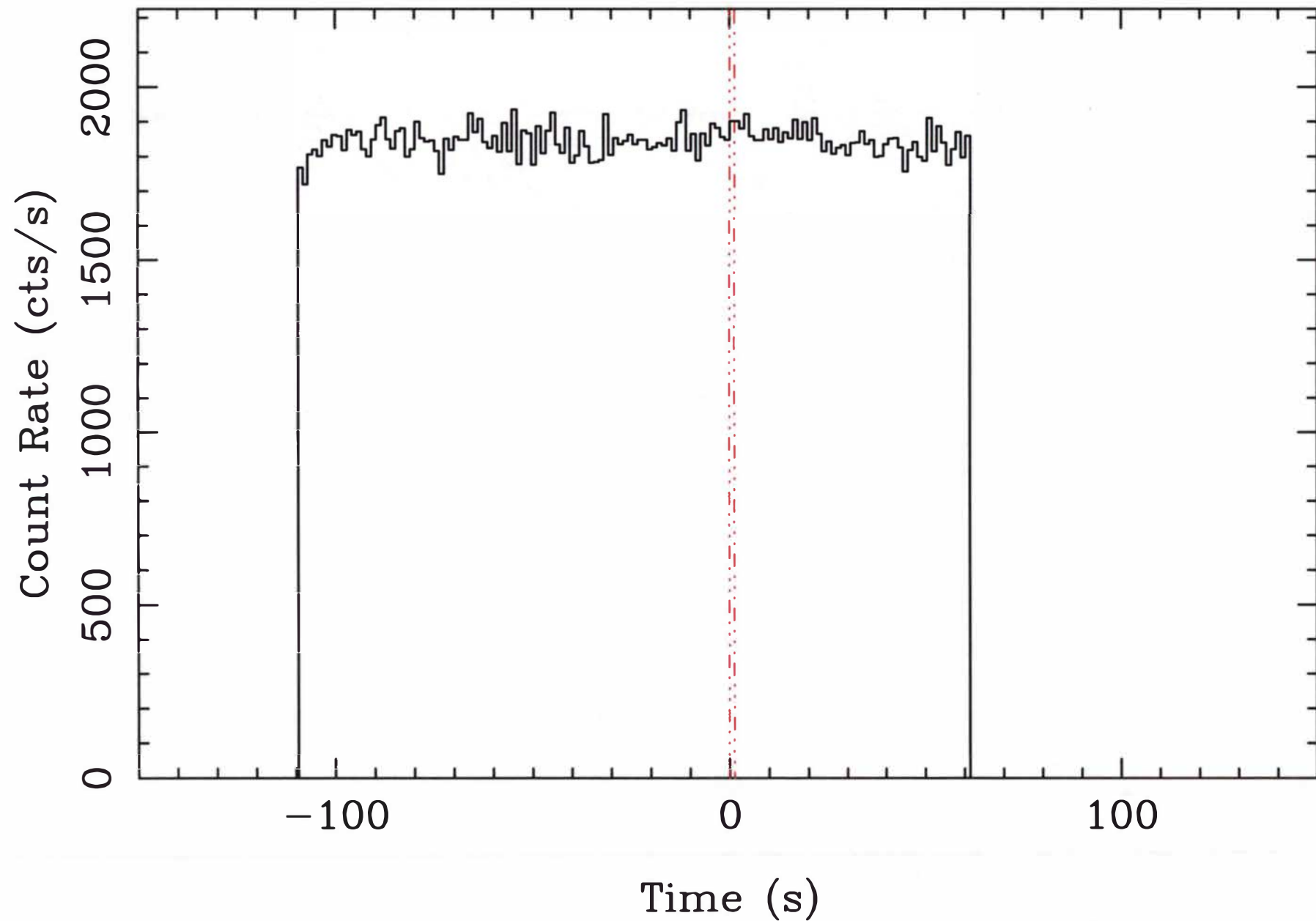
HETE-II 12/07/04 66714.703

18- 510 keV



FREGATE Band A, 1.2s Resolution Data

Time Since UTC = 20040712_183225.468006



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_3423_1_20040712_66746)

BEG TIME: 12/07/04 DOY 194 Julian 2453200.27042 UT = 18.490 18:29:24 (66564.000 secs) [sct = 0019 9caf ecd5 dc22]
 END TIME: 12/07/04 DOY 194 Julian 2453200.27500 UT = 18.600 18:36:00 (66960.000 secs) [sct = 0019 9cb0 0470 5877]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

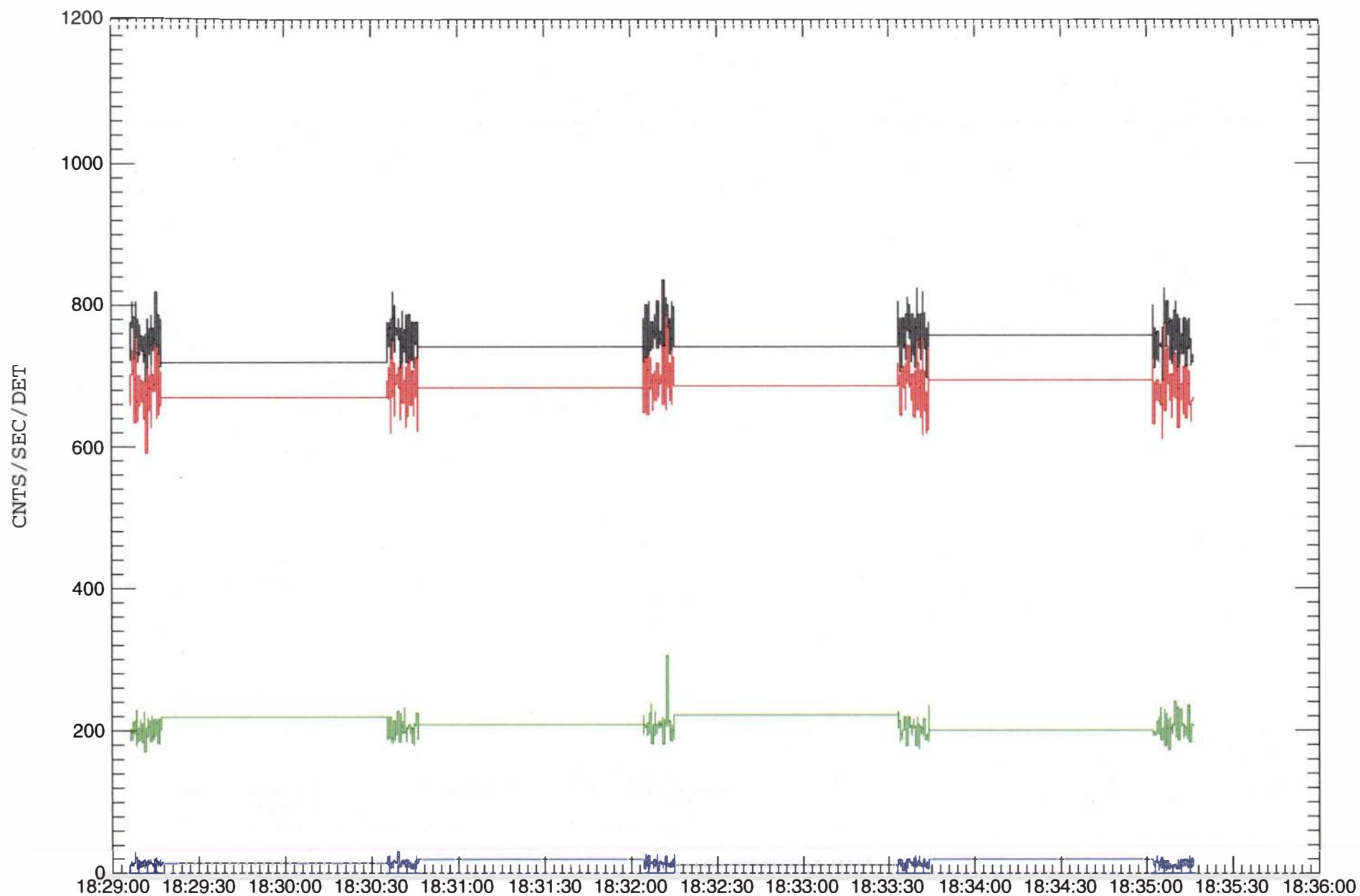
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

FREGATE BURST #5 TIME HISTORY -- DETECTORS 1-4 SUMMED

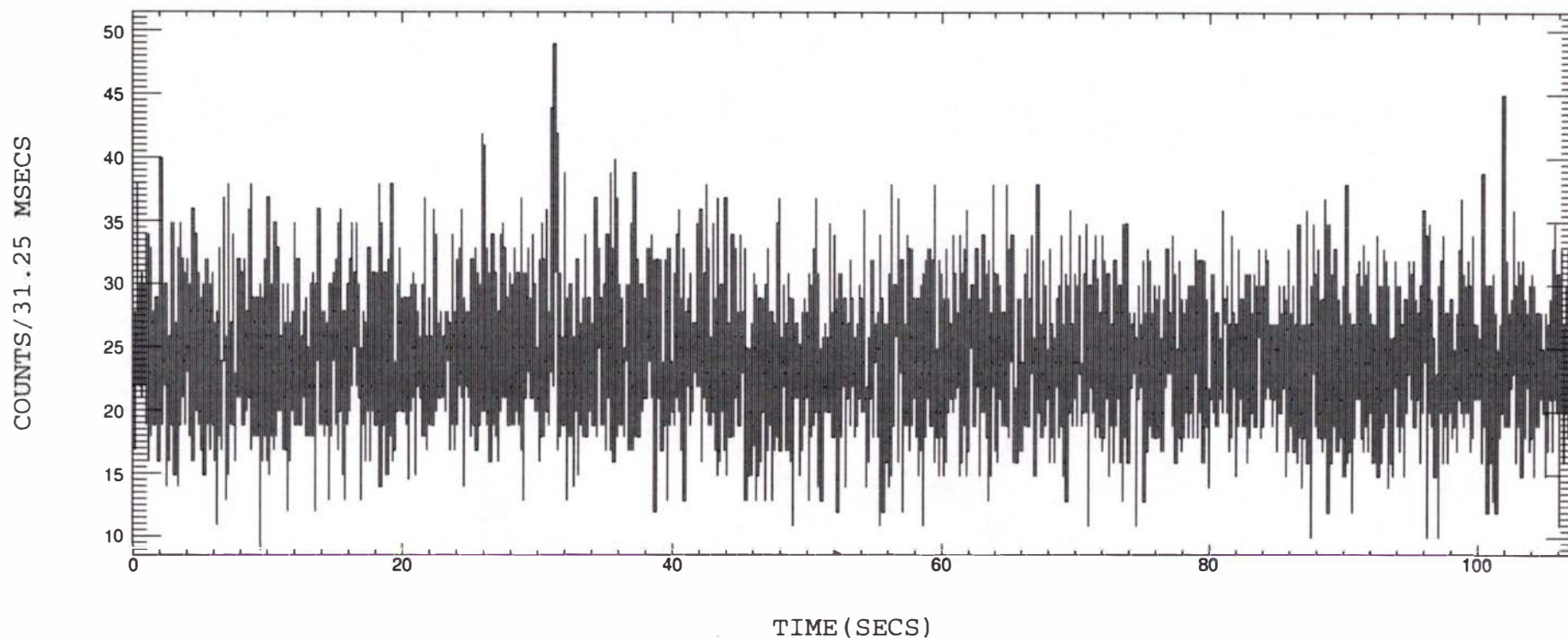
12/07/04 DOY 194 Julian 2453200.27253

TRIGGERED BY FREGATE UT = 18:32:26 (66746.25 secs) [sct = 0019 9caf f7b2 b824]

PLOT STARTING TIME UT = 18:31:54 (66714.70 secs) [sct = 0019 9caf f5d1 6732]

BACKGRND SAMPLED FROM UT = 18:32:07 (66727.63 secs) [sct = 0019 9caf f696 a824]

BIN WIDTH 31.25 msecs INTEGRATED OVER CHANS. 20-200



TRIGGER: deltaE = 2, deltaT = 163.20ms, USING DETECTOR(S) 1 2

CHANNELS	<01>	<02>	<03>	<04>	<05>	<06>	<07>	<08>	<09>	<10>	<11>	<12>	<13>	<14>	<15>	<16>
EXC1 REF VALUES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXC1 CNT RATES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXC2 REF VALUES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXC2 CNT RATES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHANNELS	<17>	<18>	<19>	<20>	<21>	<22>	<23>	<24>	<25>	<26>	<27>	<28>	<29>	<30>	<31>	<32>
EXC1 REF VALUES	15	15	0	0	59	57	0	0	340	329	0	0	1218	1173	0	0
EXC1 CNT RATES	8	7	0	0	64	56	0	0	268	284	0	0	1111	1112	0	0
EXC2 REF VALUES	15	15	0	0	59	57	0	0	340	329	0	0	1218	1173	0	0
EXC2 CNT RATES	9	7	0	0	67	78	0	0	268	284	0	0	1111	1112	0	0

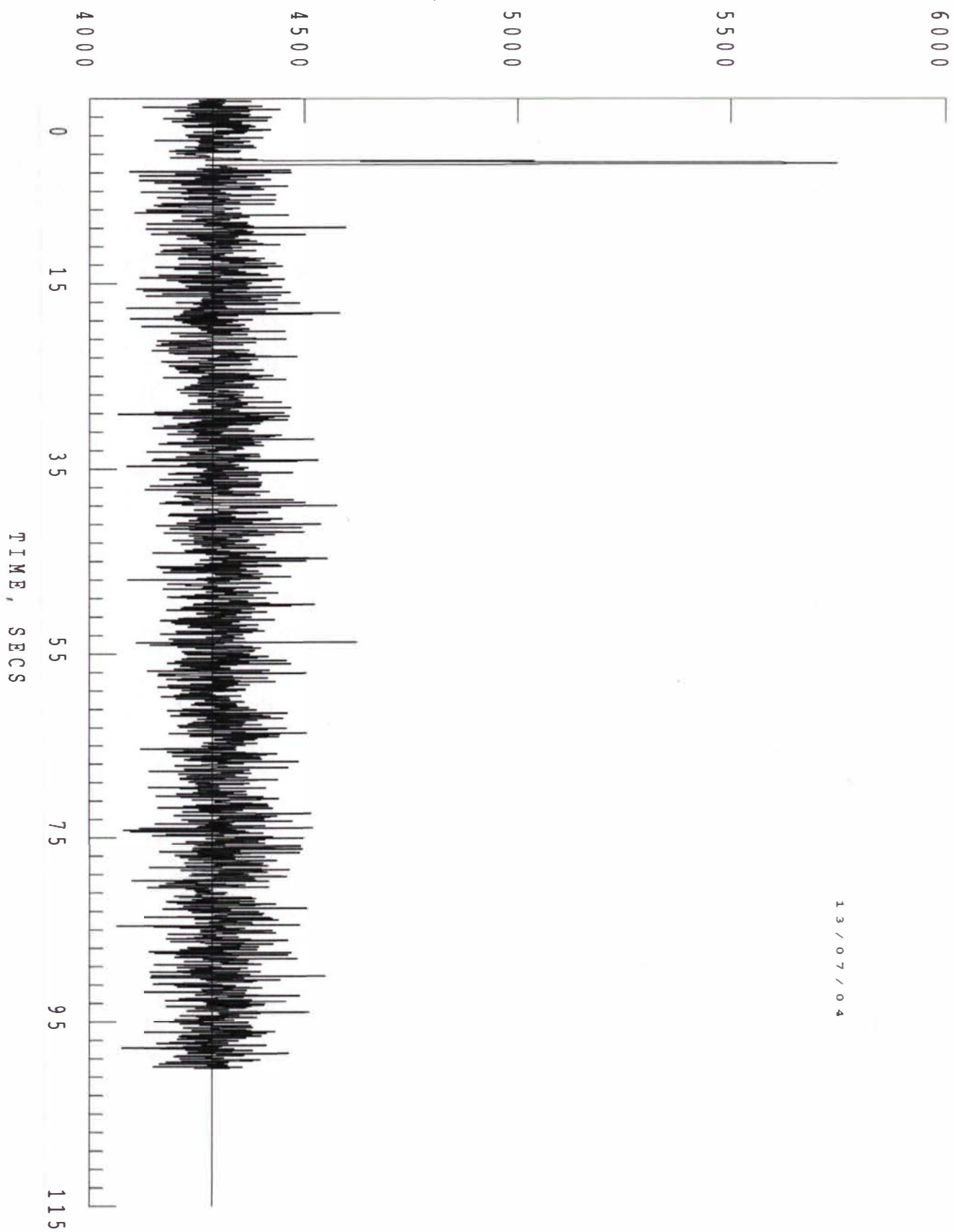
INTEGRAL

12/07/04

66744.340

100-10000 keV

COUNTS/0.050 S



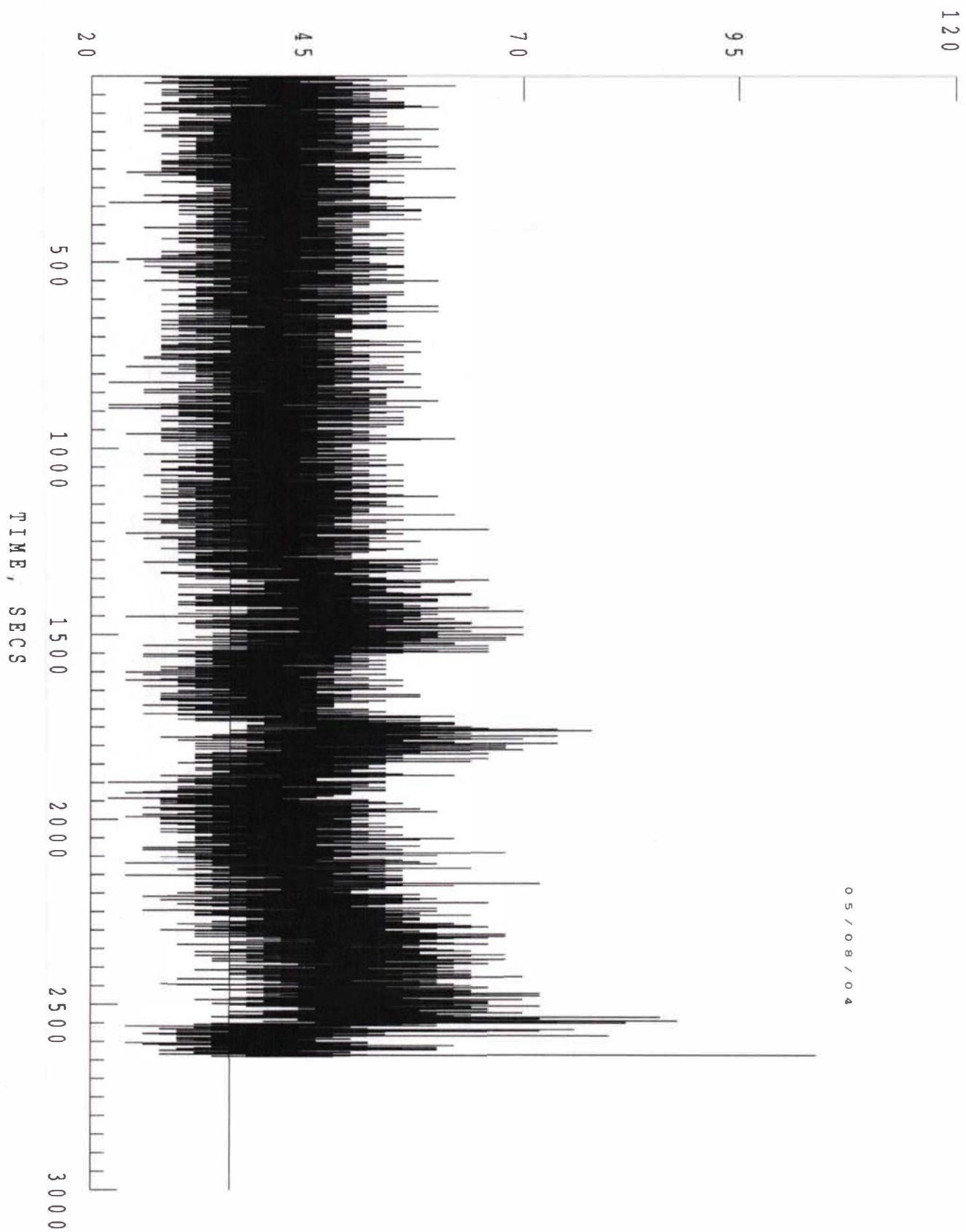
MS01

12/07/04

65388.200

50 - 3000 keV

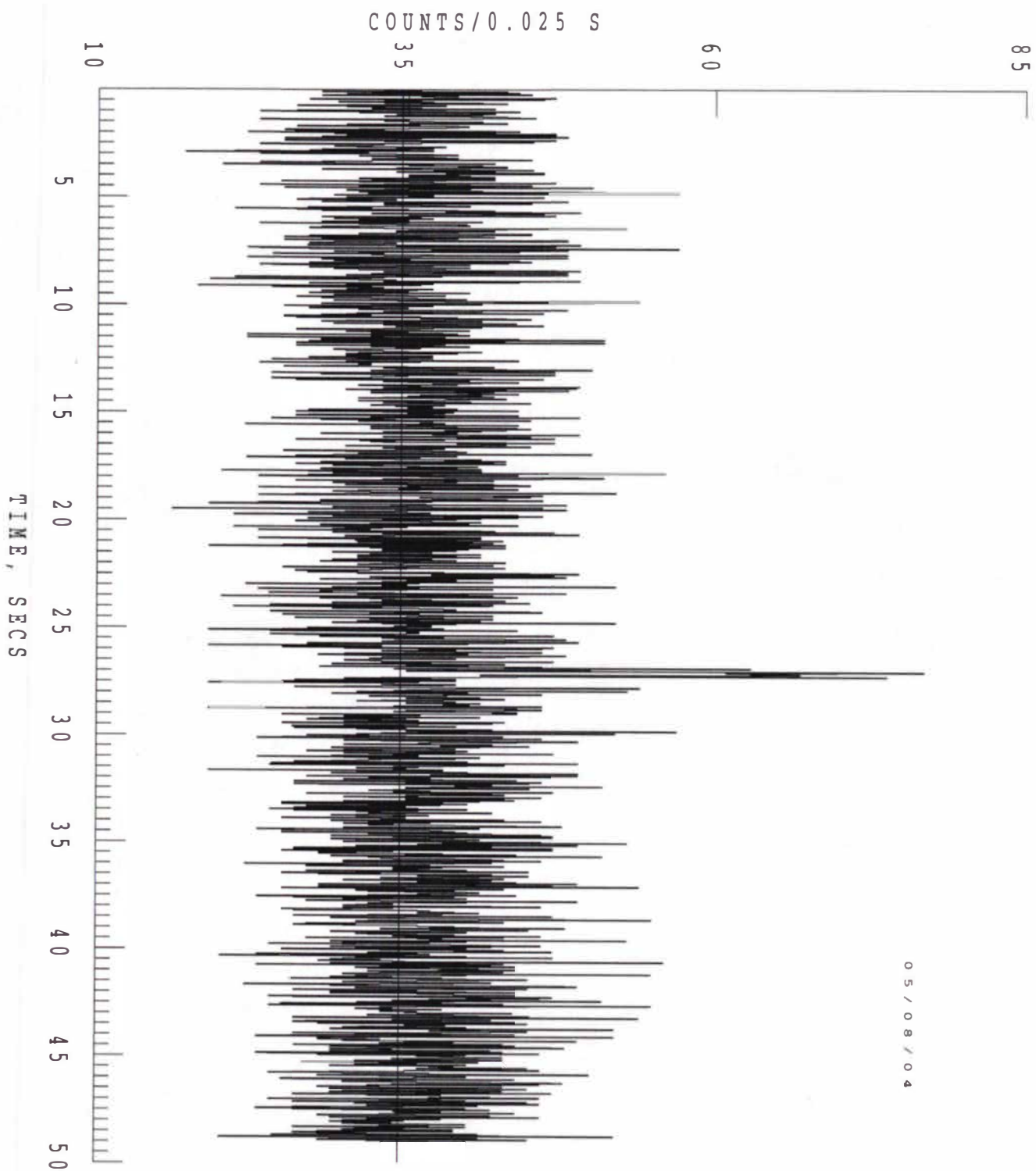
COUNTS/0.250 S



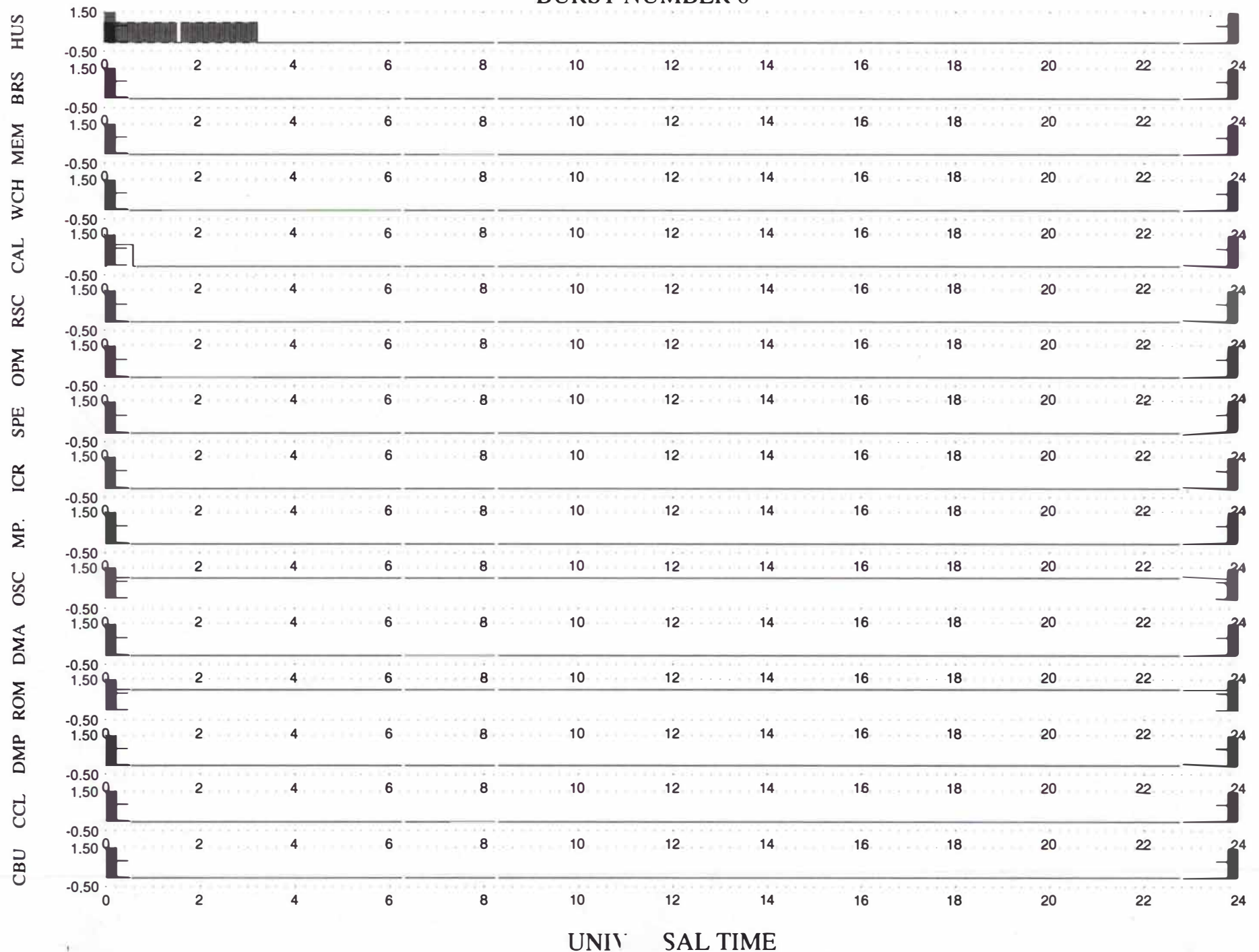
HESSI

12/07/04 66719.000 (H3423_20040712_66744)

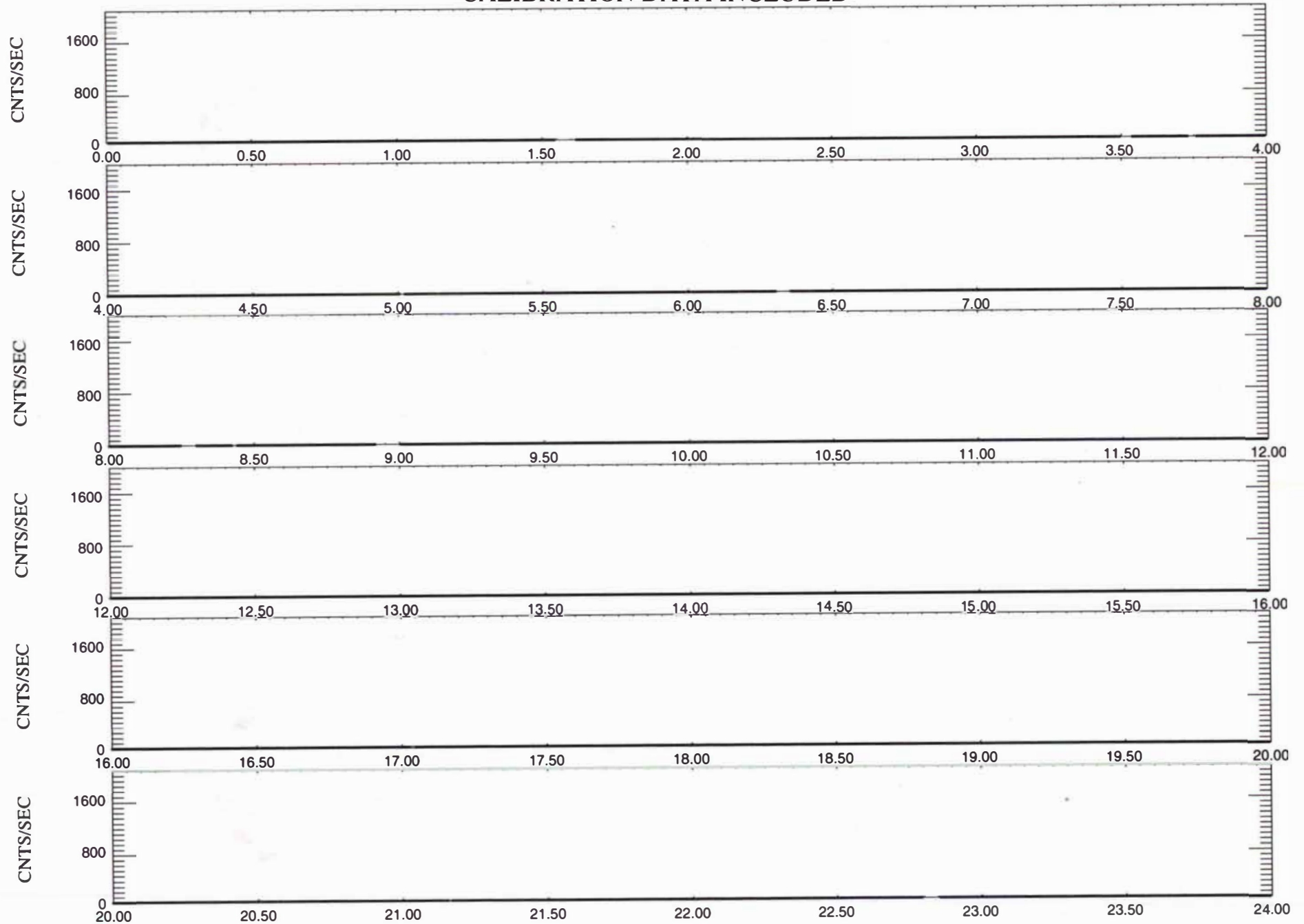
80-2000 keV



BURST NUMBER 0



CALIBRATION DATA INCLUDED



UNIV. SAL TIME

KONUS2

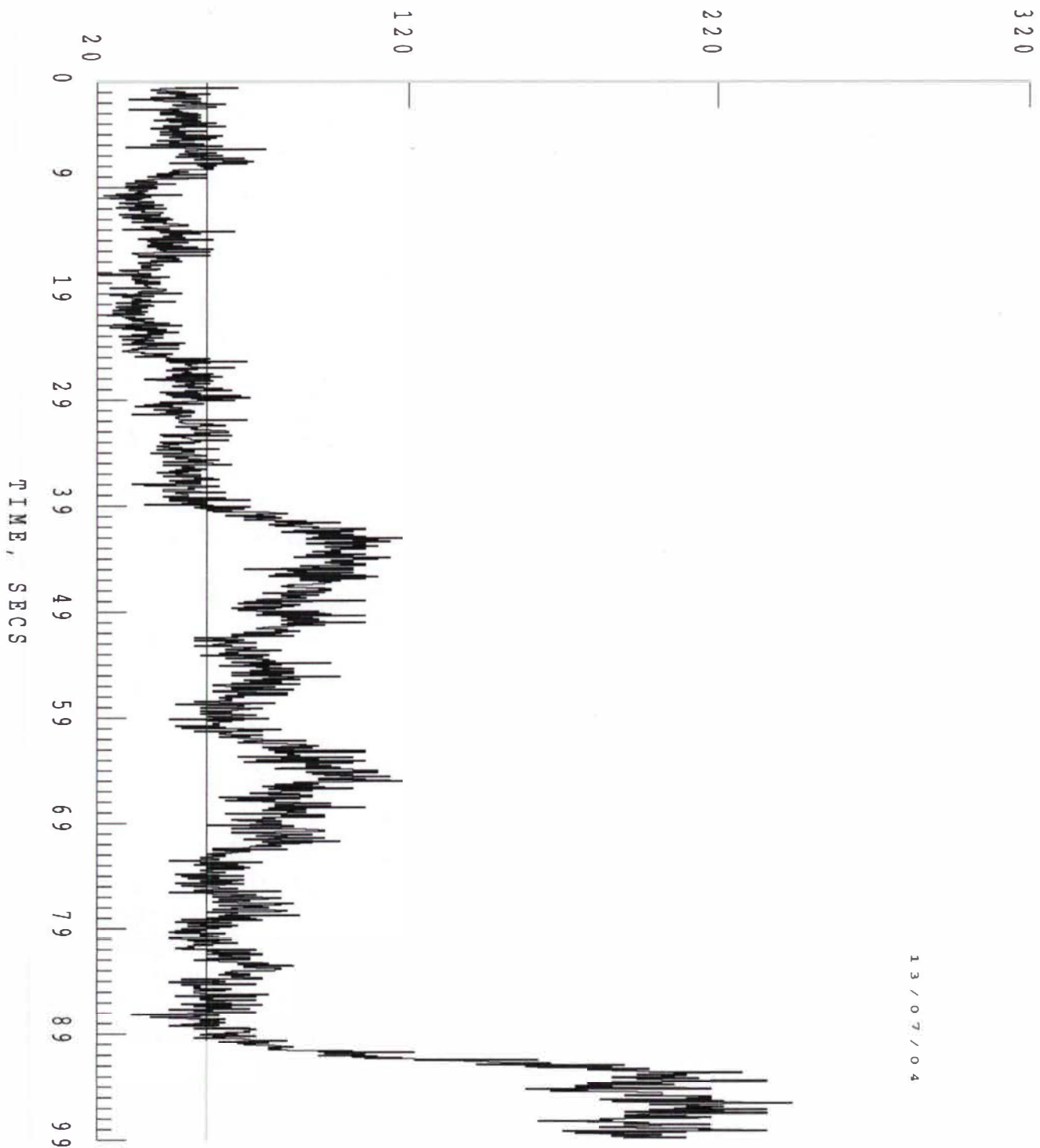
13/07/04

800.798

50 - 200 keV

Solar

COUNTS/0.064 S



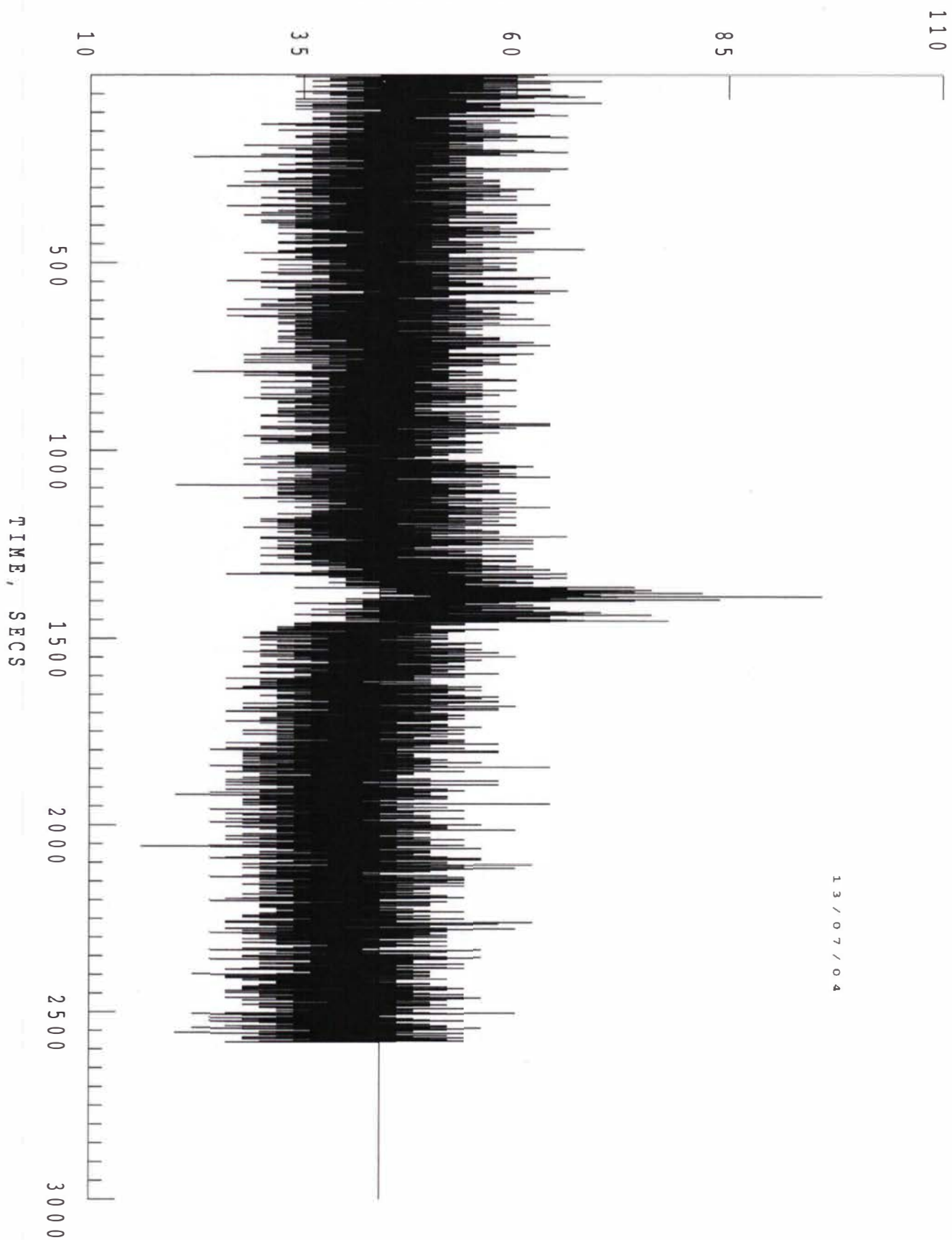
MS01

13/07/04

24767.475

50- 3000 keV

COUNTS/0.250 S



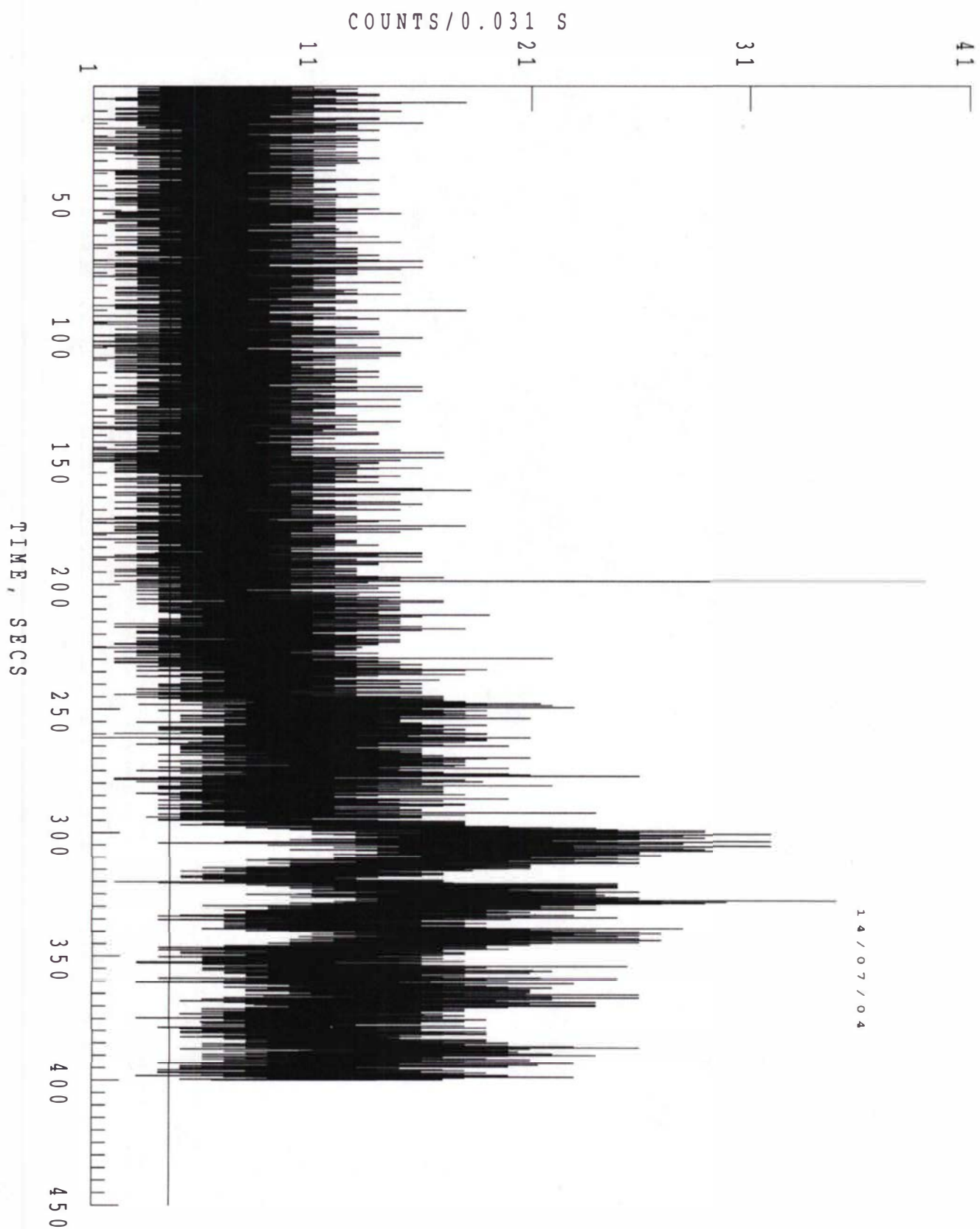
13/07/04

HESSI

13/07/04

600.000 (KONUS2_20040713_00800)

25- 150 keV



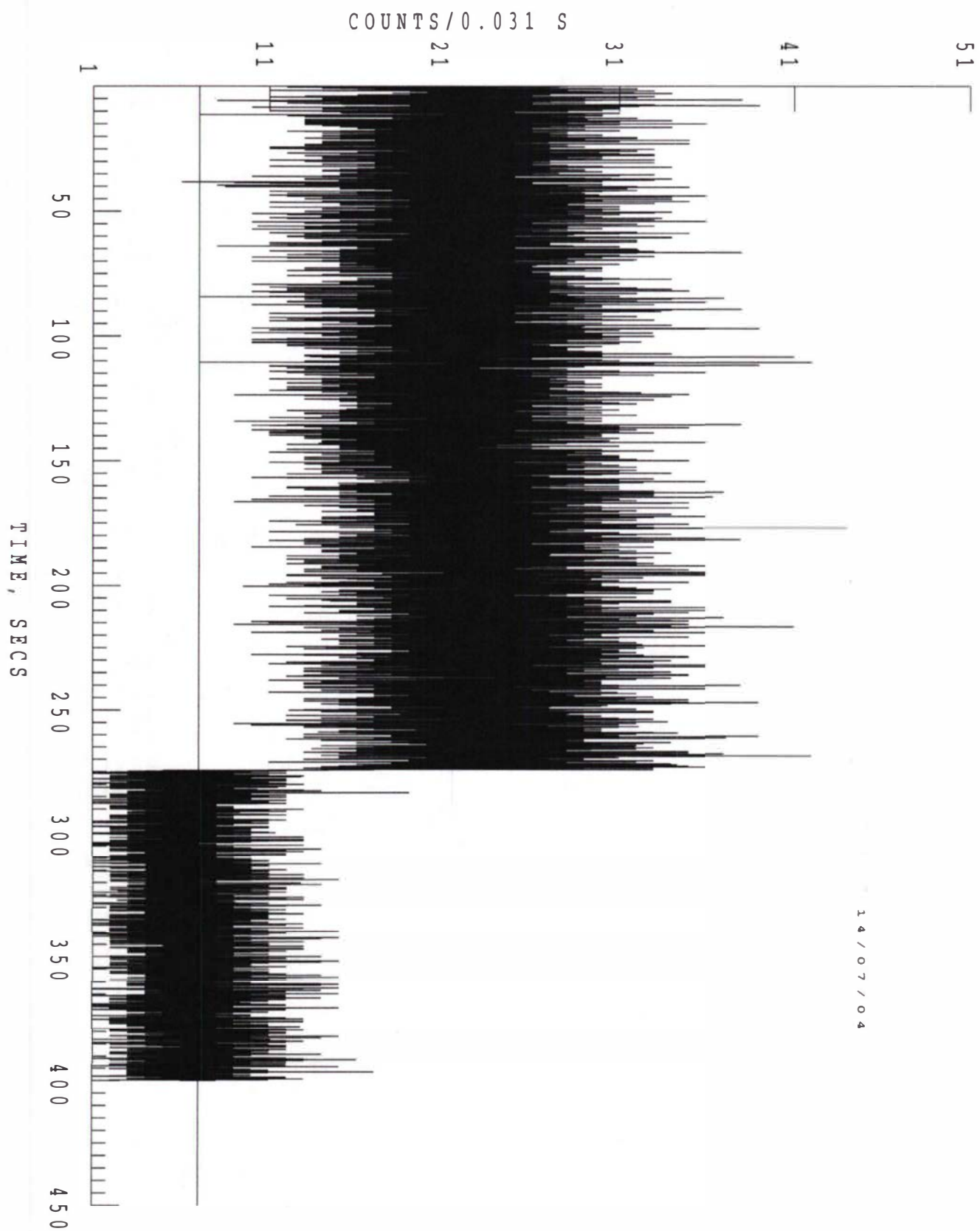
From hops@space.mit.edu Tue Jul 13 09:15:28 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Tue, 13 Jul 2004 16:16:18 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www . canit . ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Tue Jul 13 16:16:18 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13199 TJD; 195 DOY; 04/07/13
GRB_TIME: 26078.90 SOD {07:14:38.89} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

HESSI

13/07/04 25878.000 (GHETE_9999_1_20040713_26078)

25- 150 keV



KONUS2

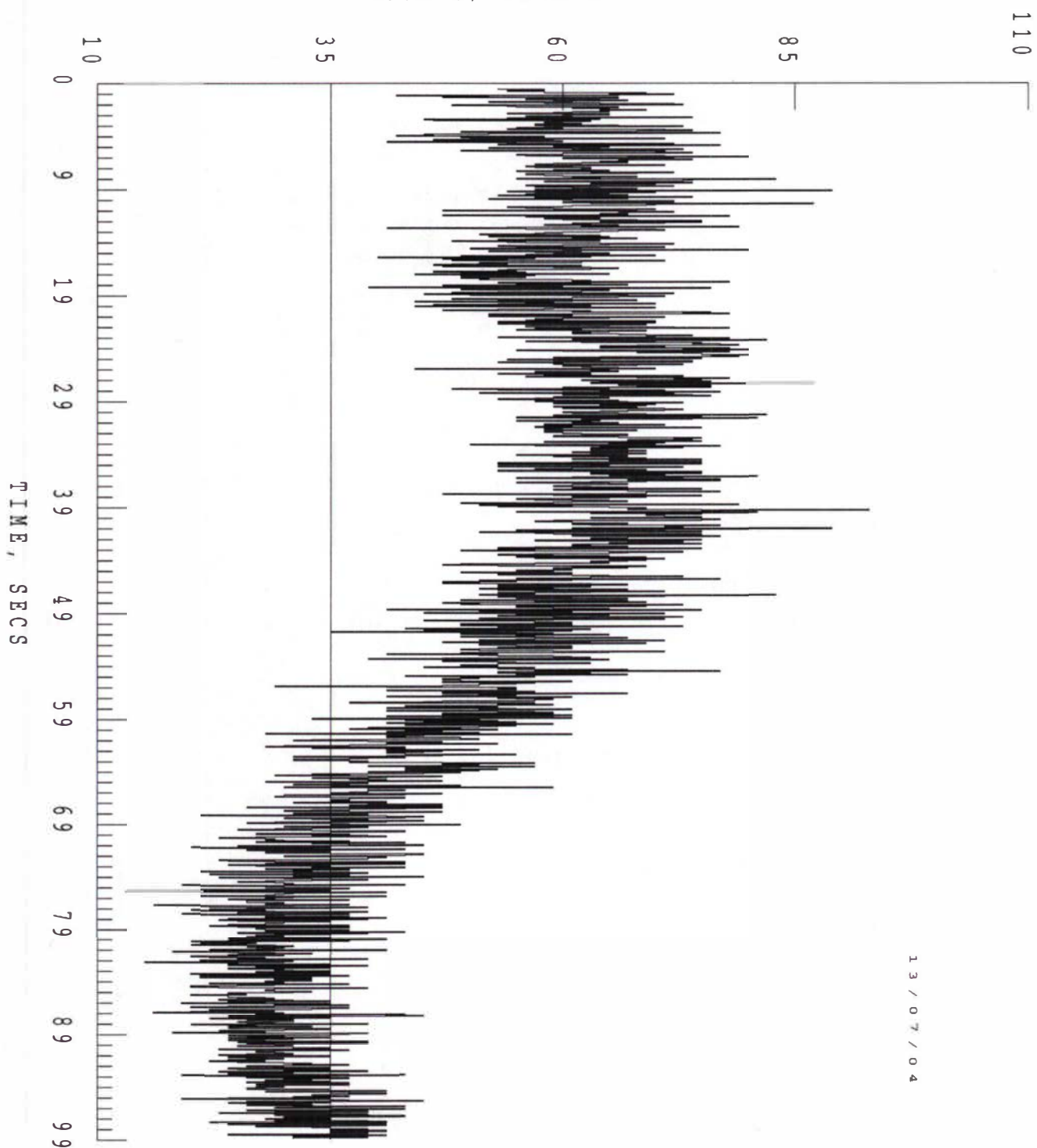
13/07/04

31607.529

50- 200 keV

Solar

COUNTS/0.064 S



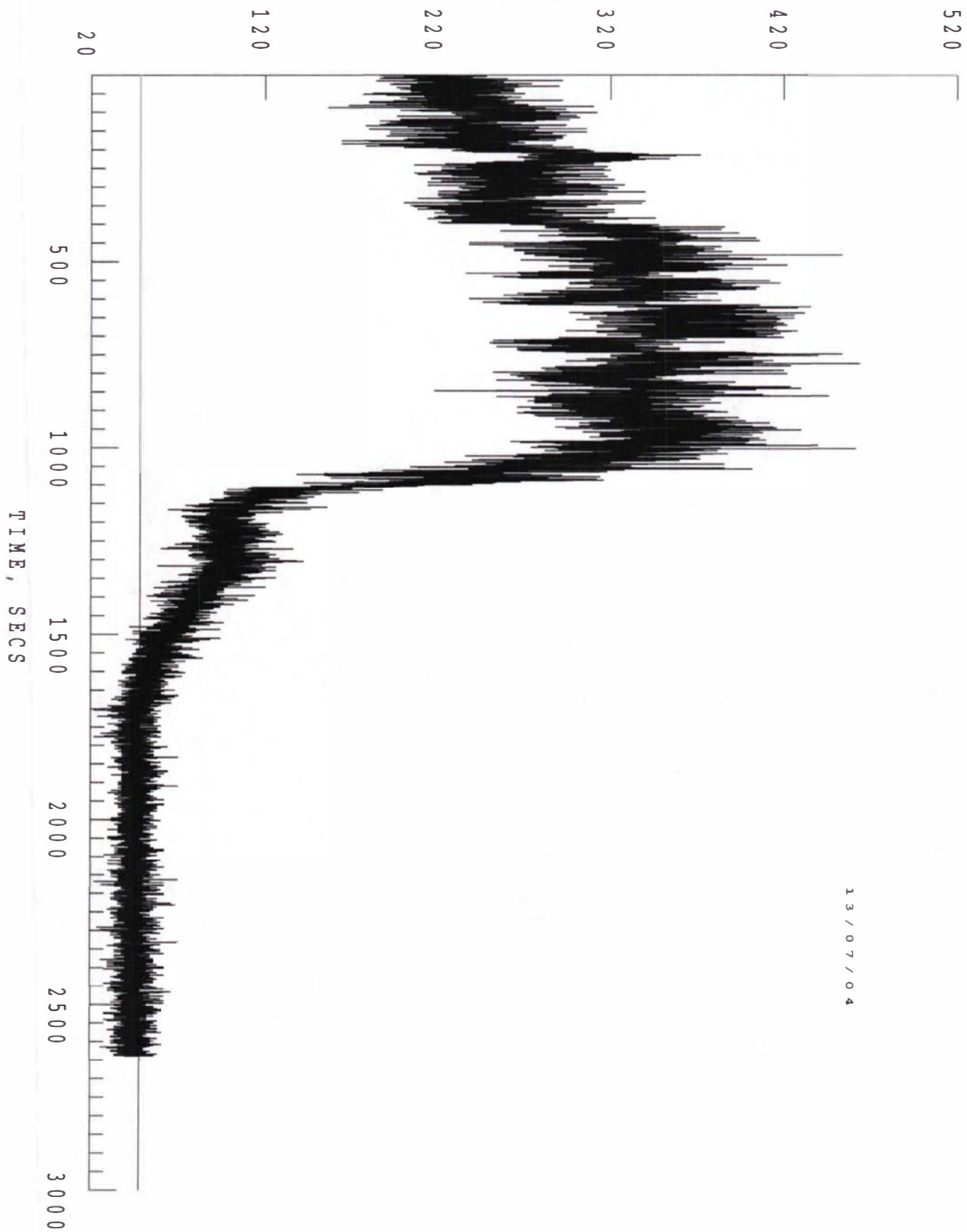
MS01

13/07/04

30287.370

50 - 3000 keV

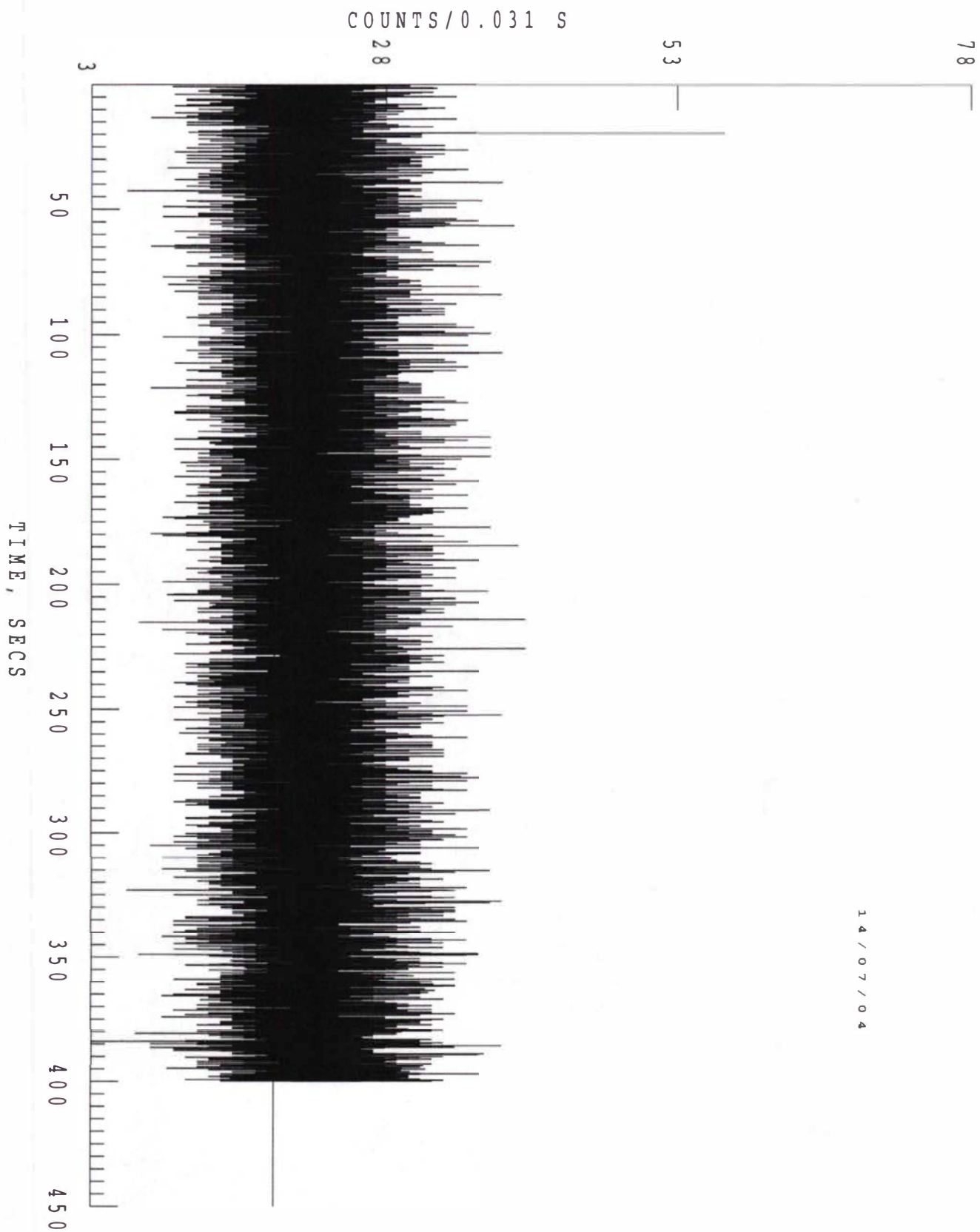
COUNTS/0.250 S



HESSI

13/07/04 31407.000 (KONUS2_20040713_31607)

25- 150 keV



KONUS2

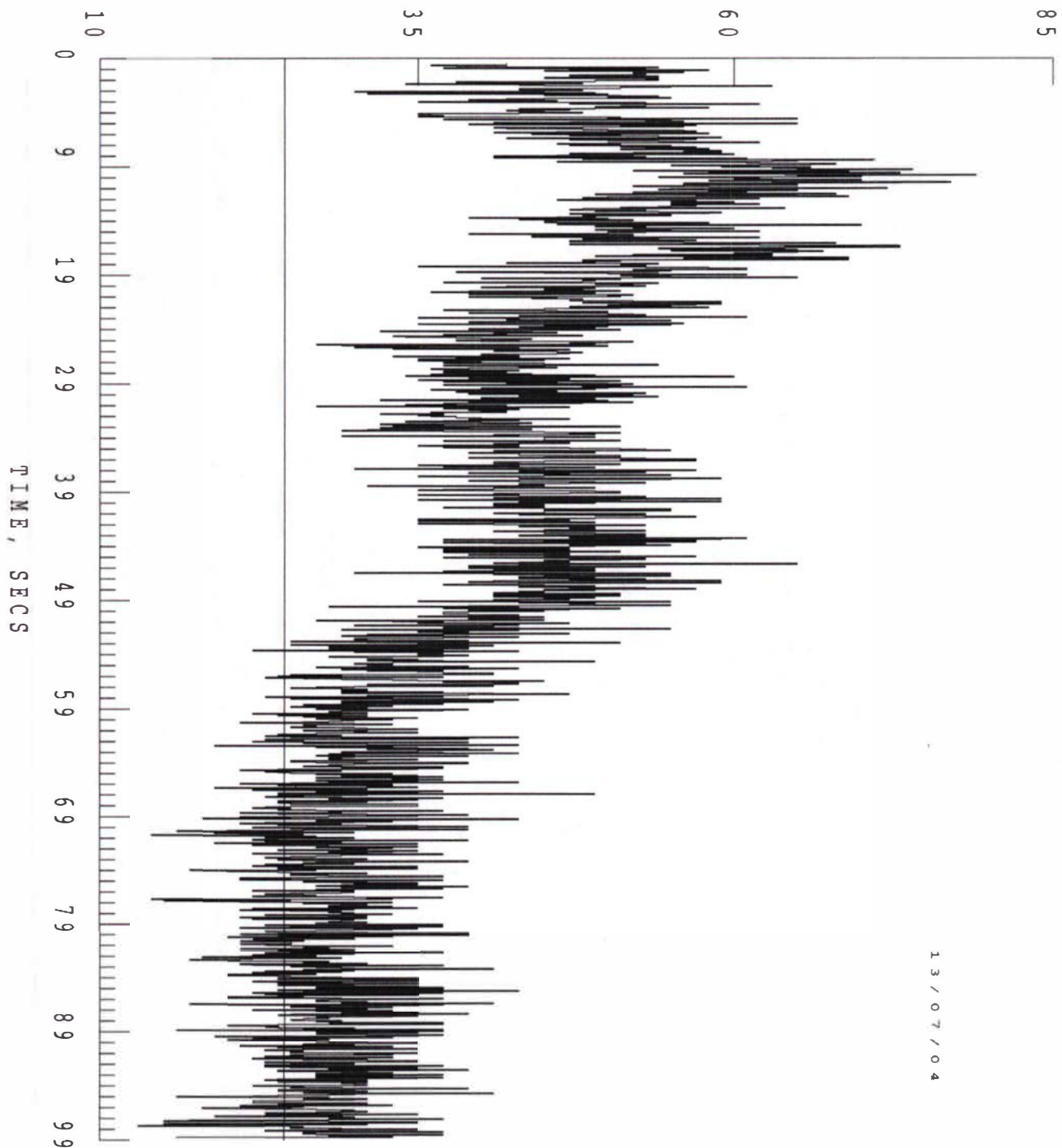
13/07/04

43509.518

50- 200 keV

Solar

COUNTS/0.064 S



13/07/04

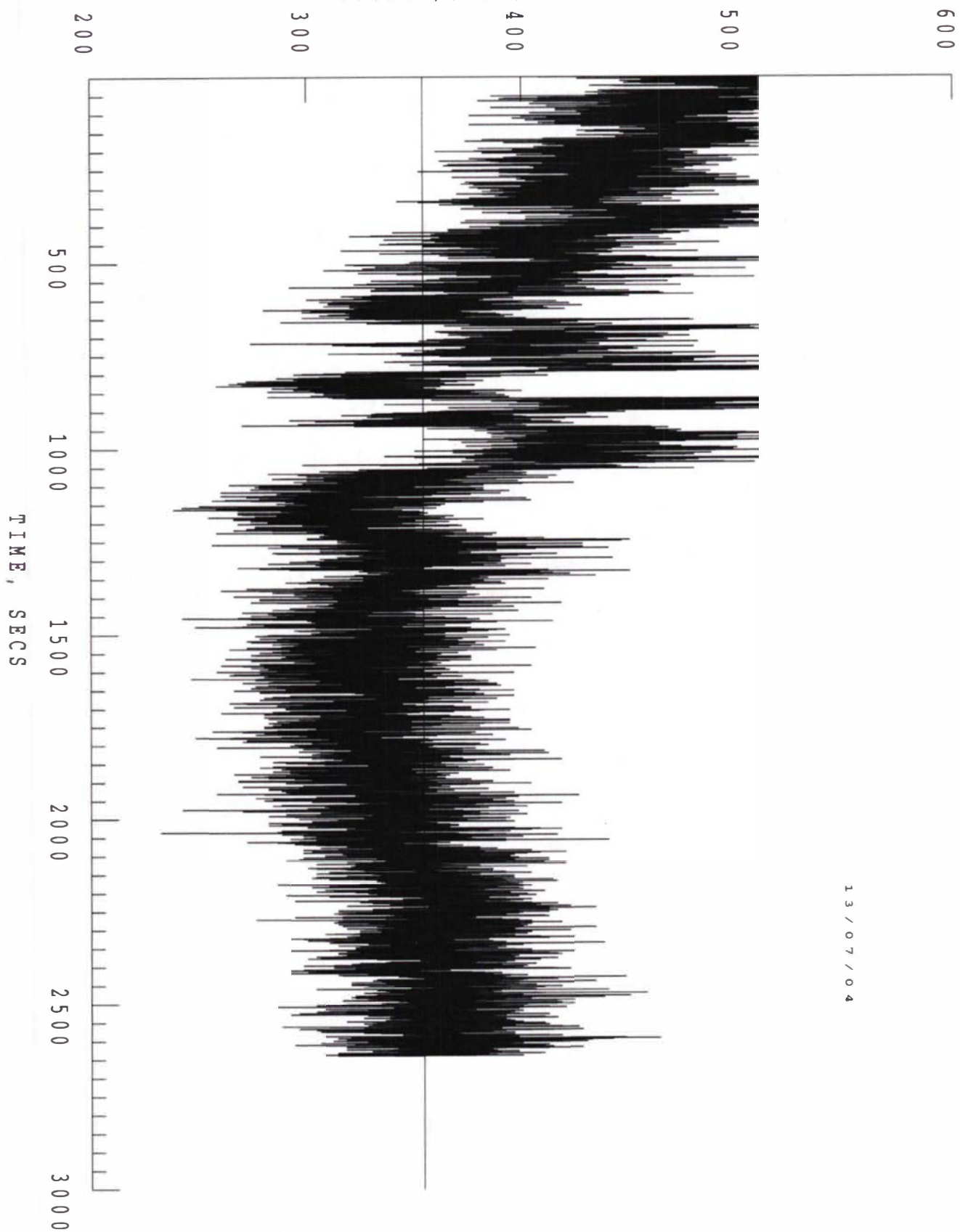
MS01

13/07/04

42167.147

50- 3000 keV

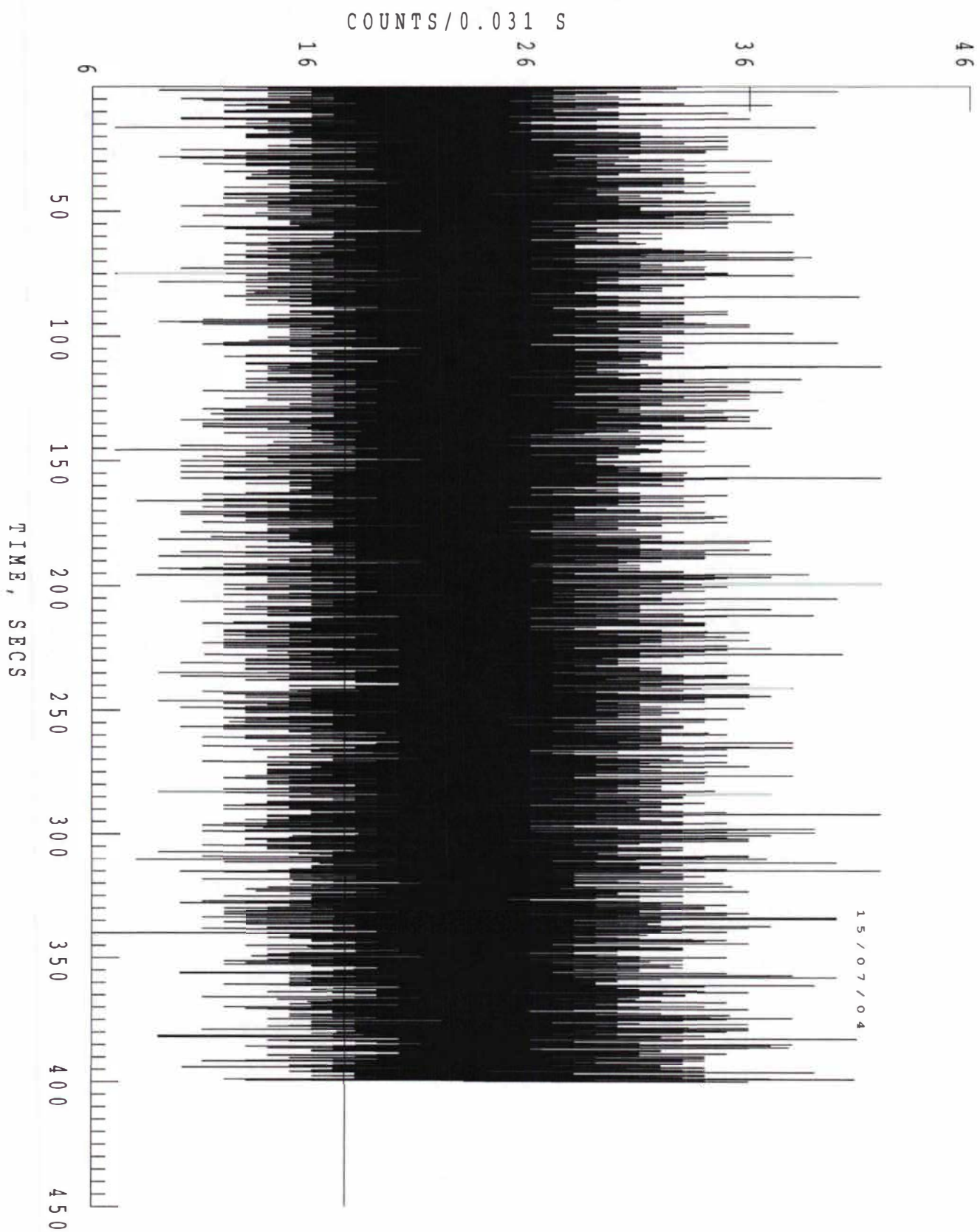
COUNTS/0.250 S



HESSI

13/07/04 43309.000 (KONUS2_20040713_43509)

25- 150 keV



KONUS2

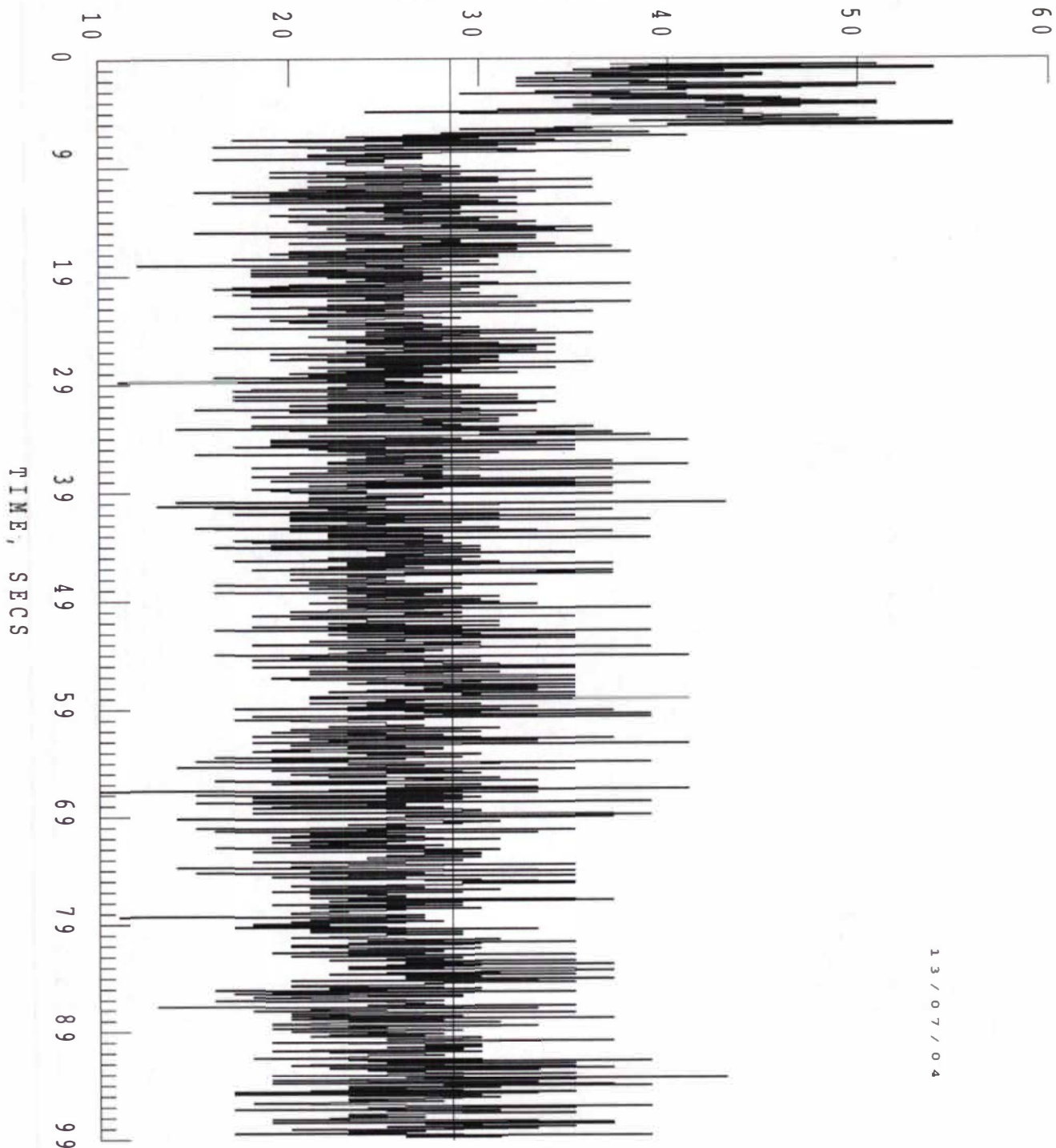
13/07/04

70032.248

50 - 200 keV

Solar

COUNTS/0.064 S



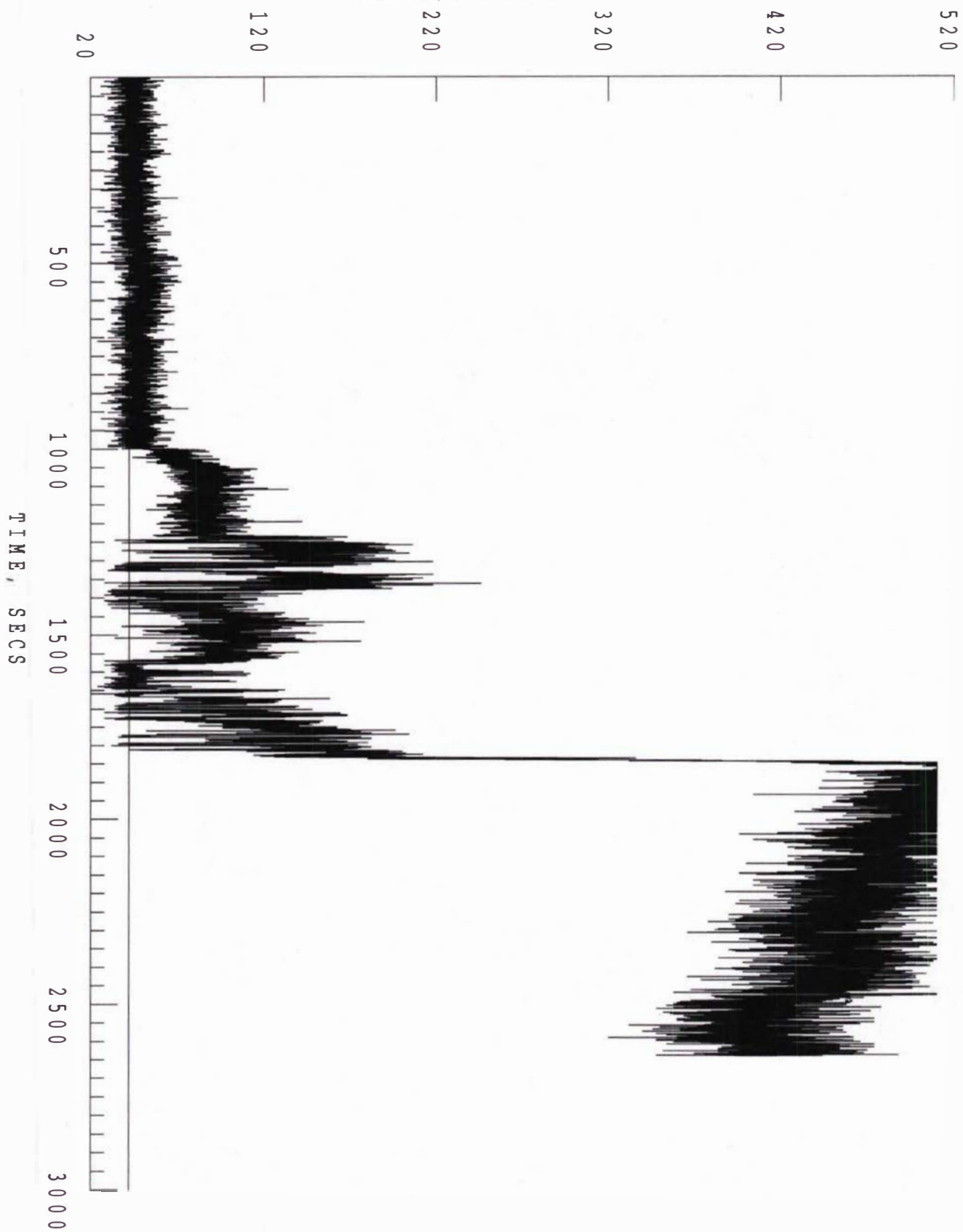
MS01

13/07/04

68686.657

50 - 3000 keV

COUNTS/0.250 S

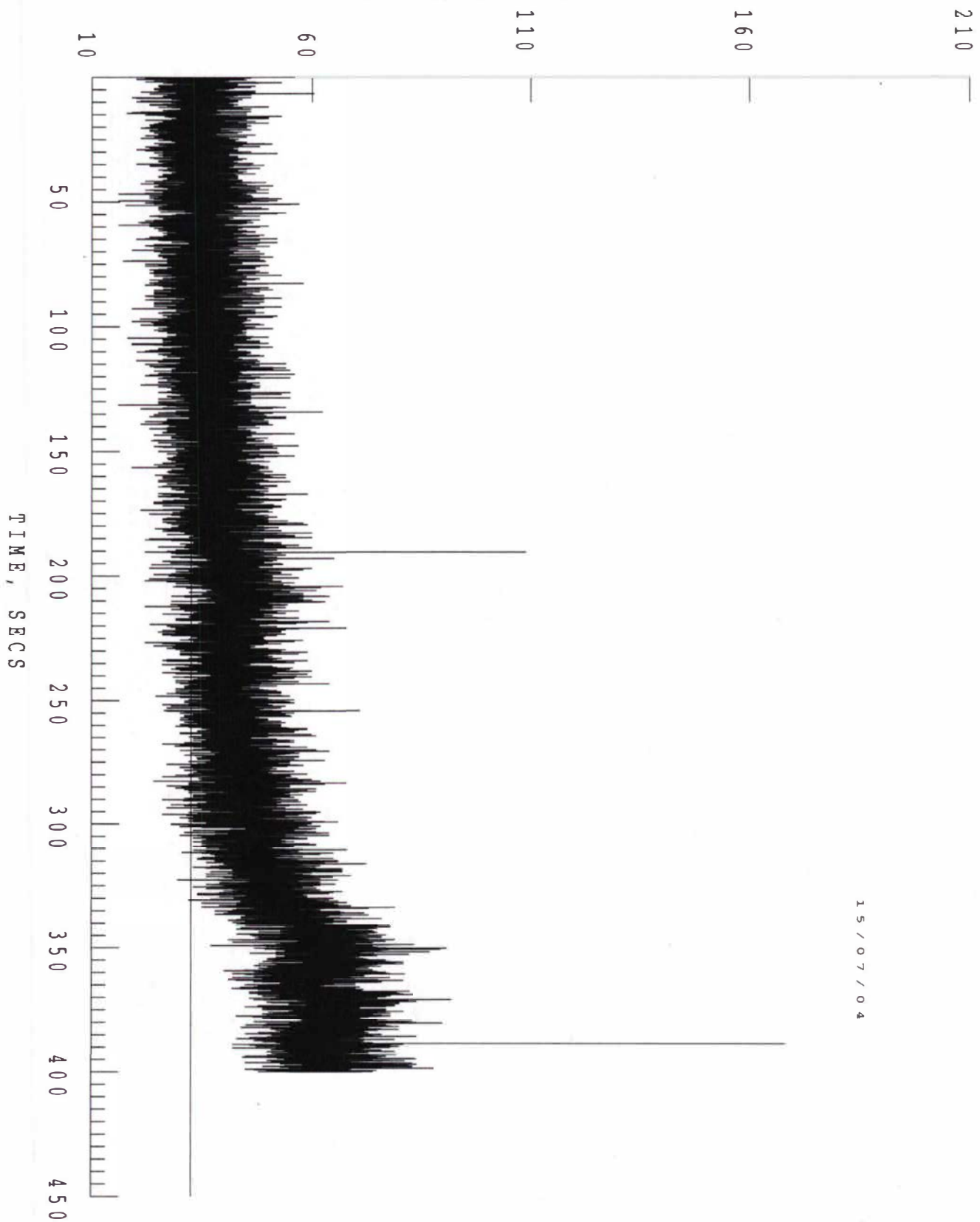


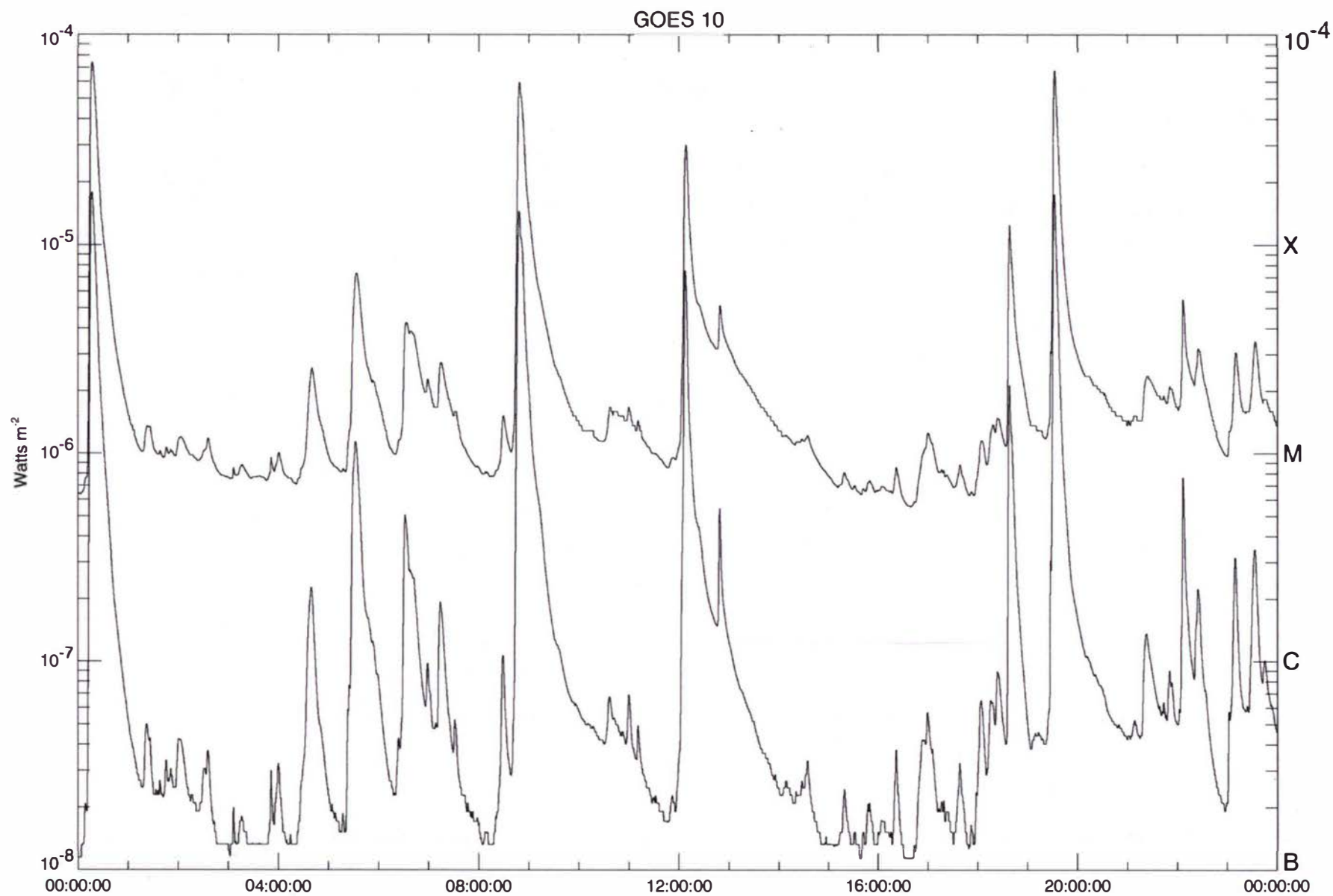
HESSI

13/07/04 69832.000 (KONUS2_20040713_70032)

25- 150 keV

COUNTS/0.031 S





Data Start: 04/07/13, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/14, 0827

Sample average = 10

KONUS2

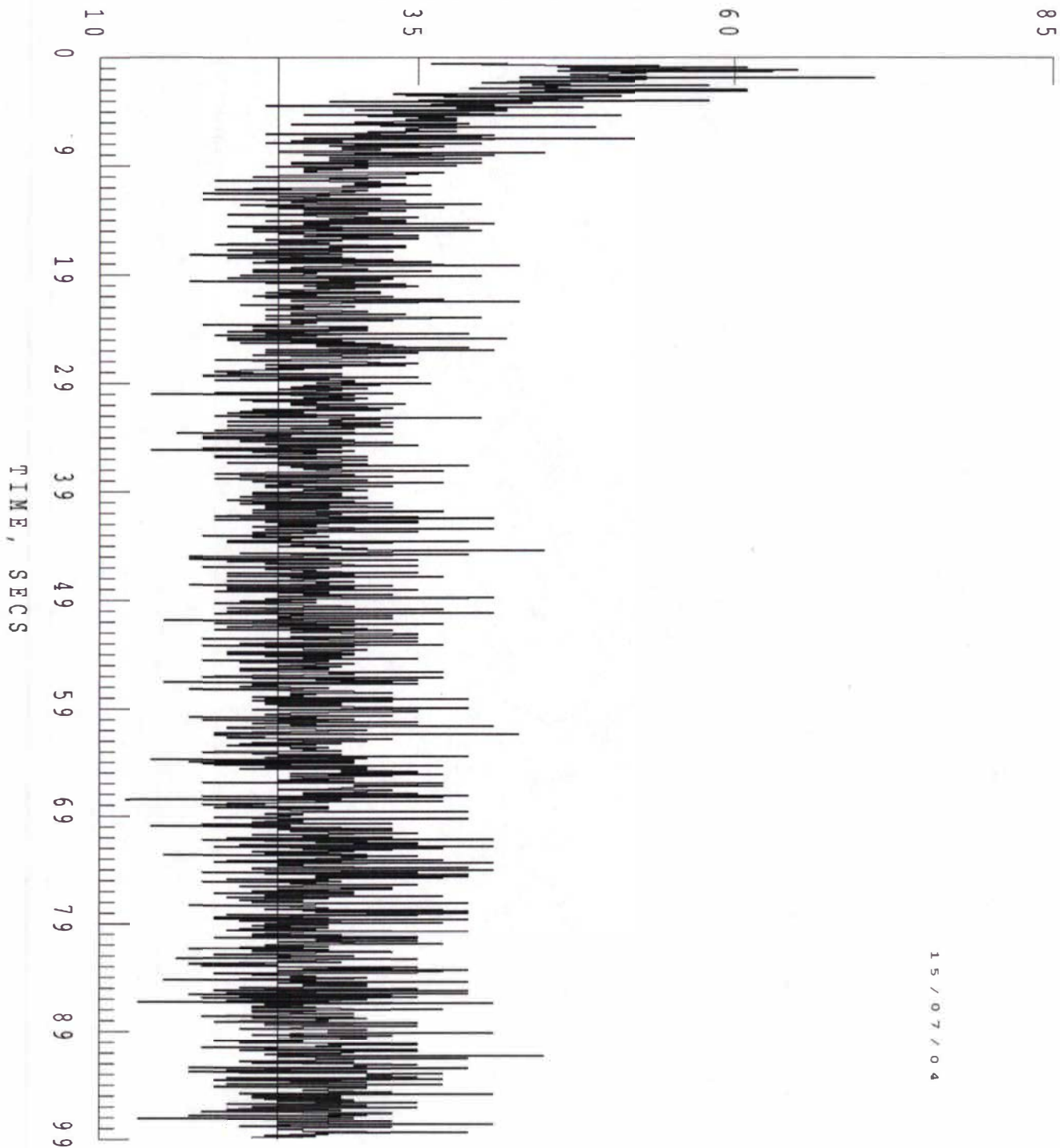
14/07/04

19255.876

50 - 200 keV

Solar

COUNTS/0.064 S



KONUS HRES 20040714 19255

TRIGGER TIME: 14/07/04 DOY 196 Julian 2453201.72286 UT = 05.349 05:20:55 (19255.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

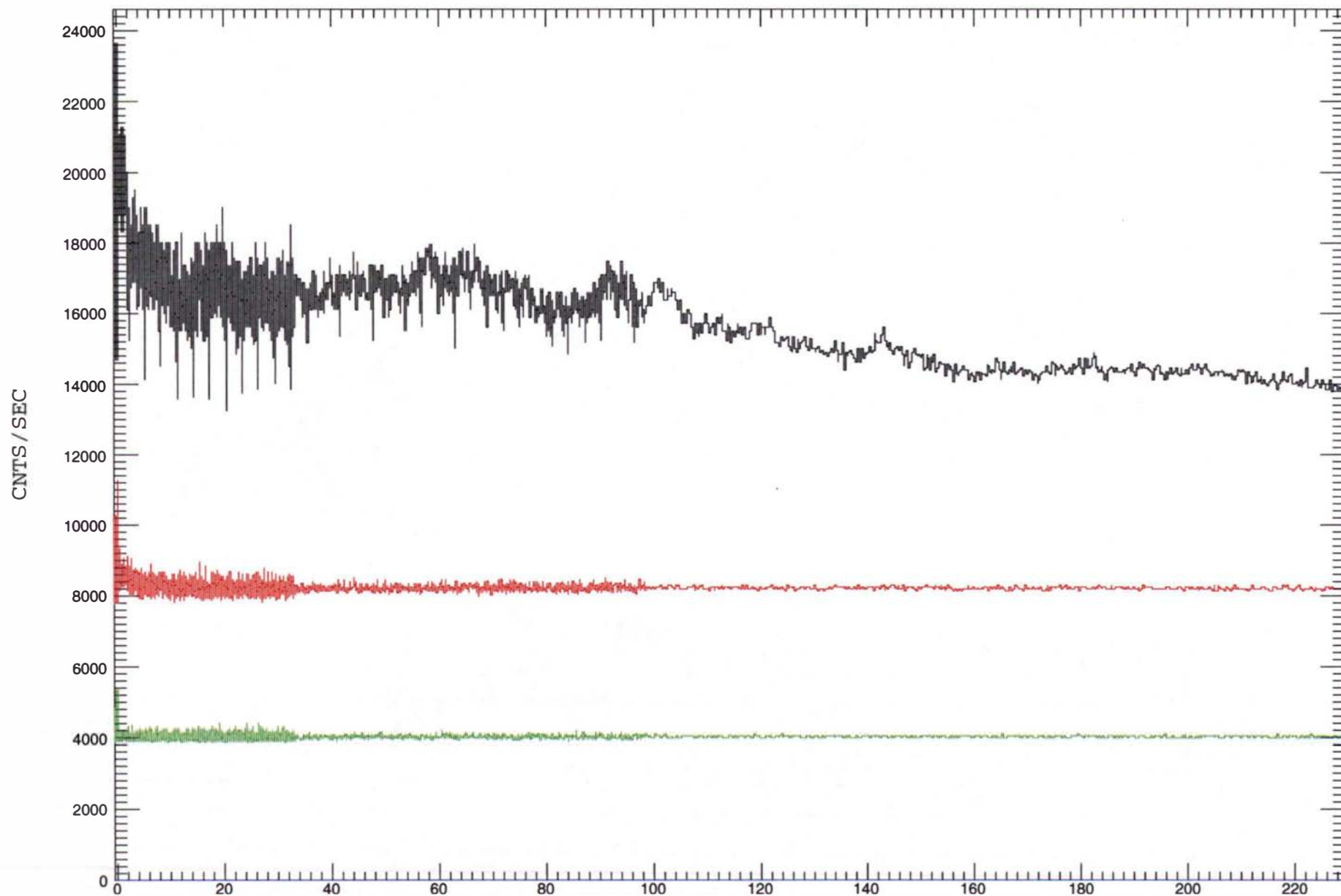
Chan 4 : [> 10 MeV]

Channel 1 + 11700

Channel 2 + 7800

Channel 3 + 3900

Channel 4 + 0



ONDS

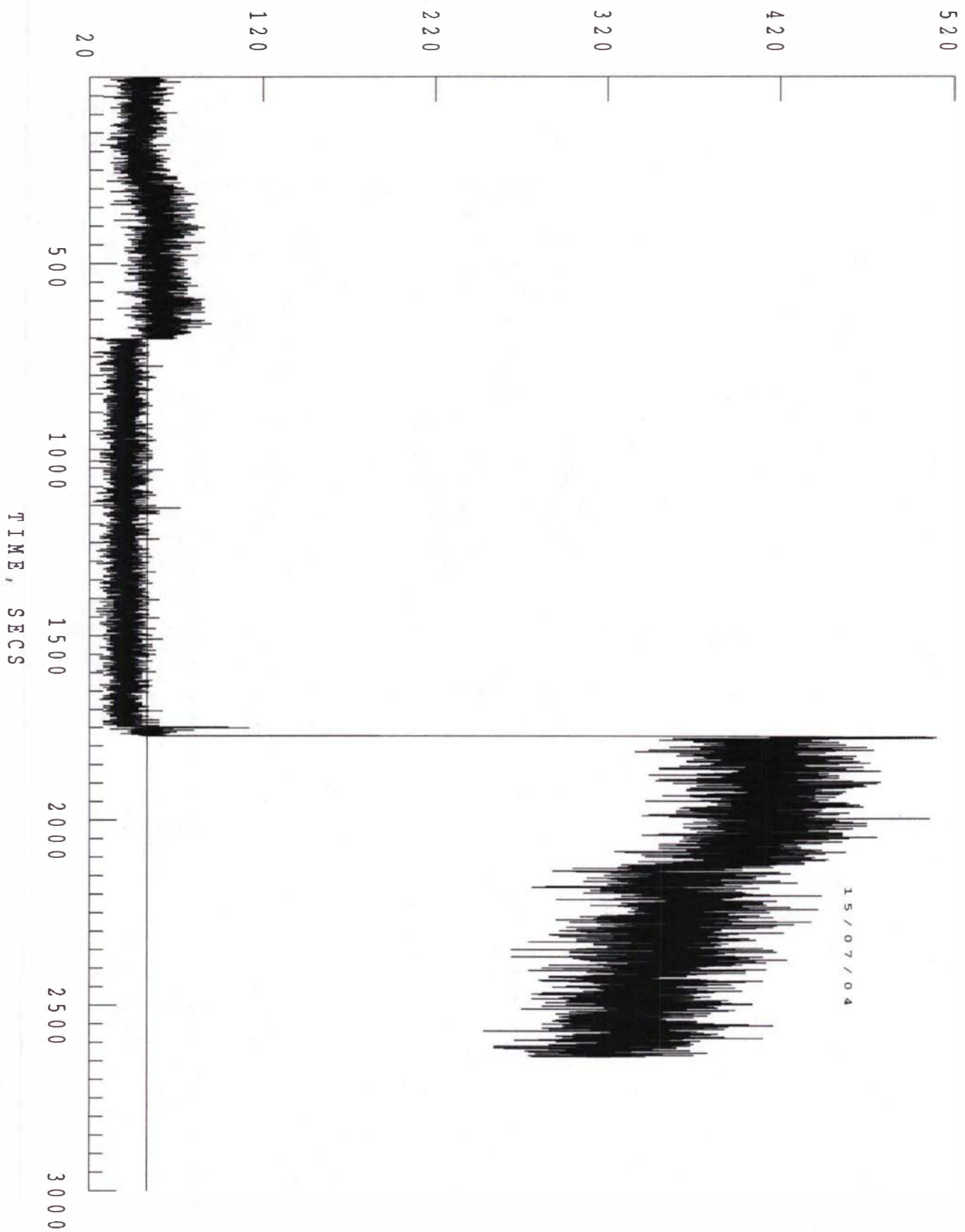
MS01

14/07/04

17925.996

50 - 3000 keV

COUNTS/0.250 S



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20040714_19255)

BEG TIME: 14/07/04 DOY 196 Julian 2453201.72042 UT = 05.290 05:17:24 (19044.000 secs) [sct = 0019 9ccd 181c 97ba]
 END TIME: 14/07/04 DOY 196 Julian 2453201.72500 UT = 05.400 05:24:00 (19440.000 secs) [sct = 0019 9ccd 2fb7 140d]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=509]

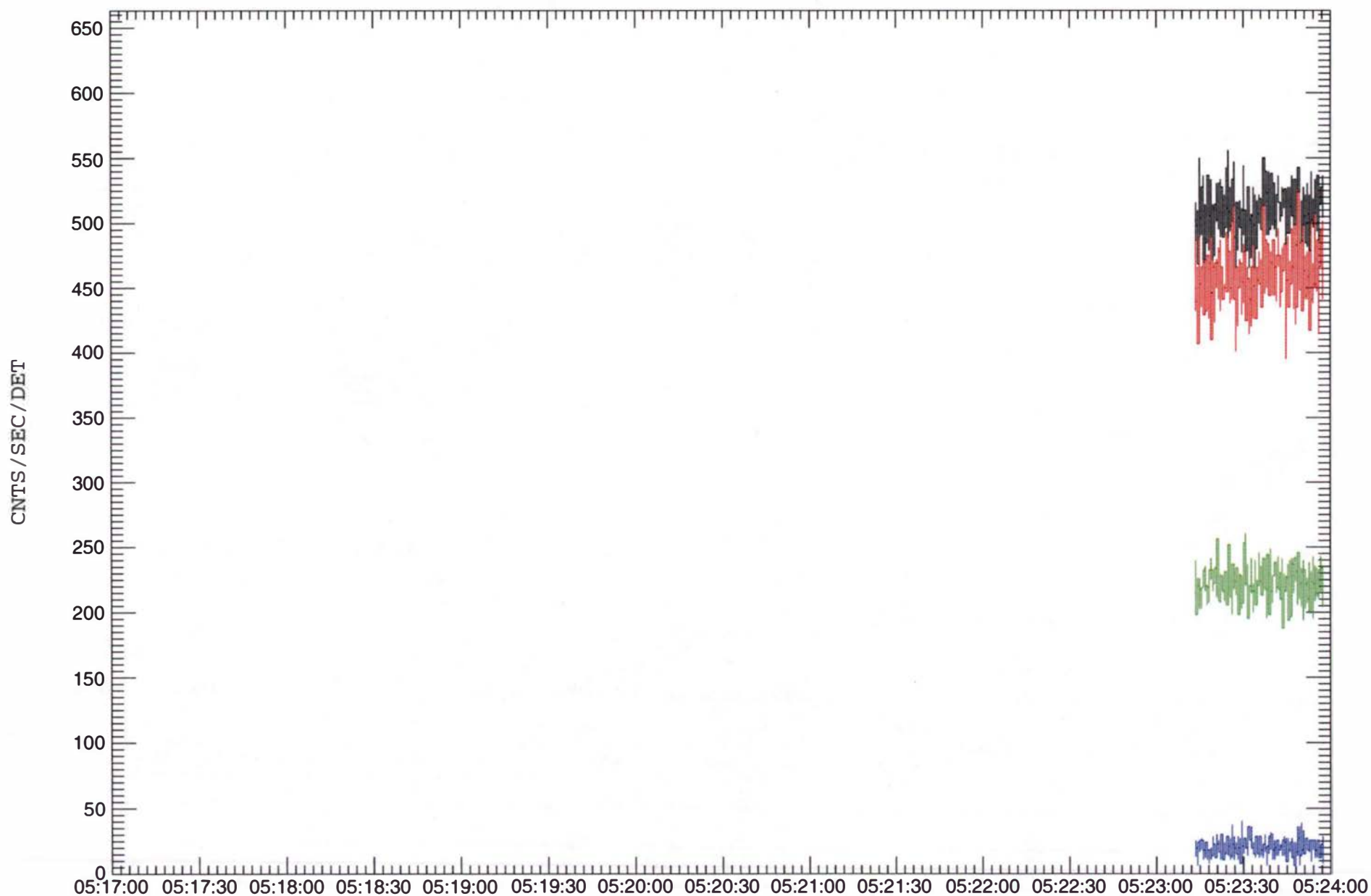
Chan 4:[E6=509 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



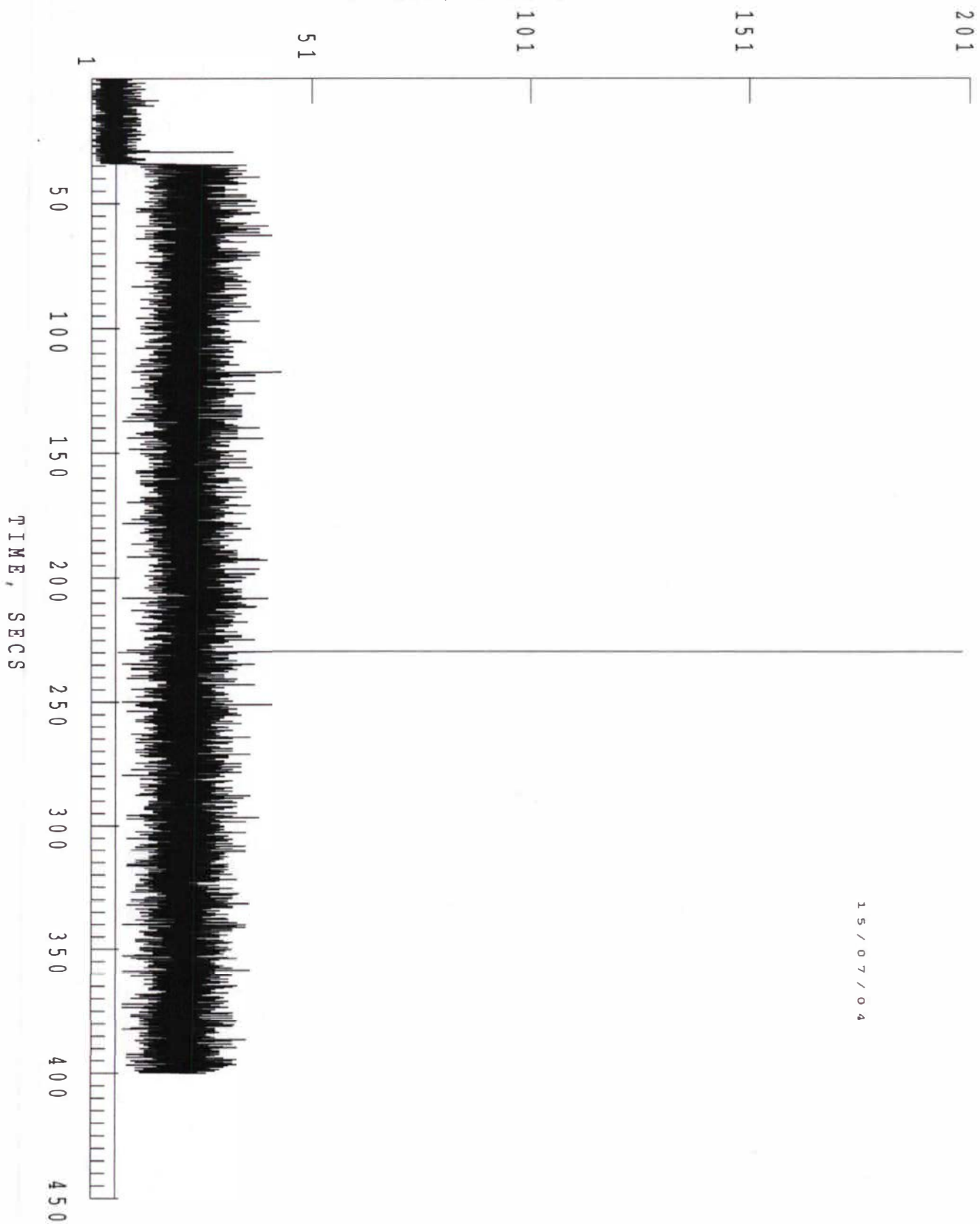
RS UT

HESSI

14/07/04 19055.000 (KONUS2_20040714_19255)

25- 150 keV

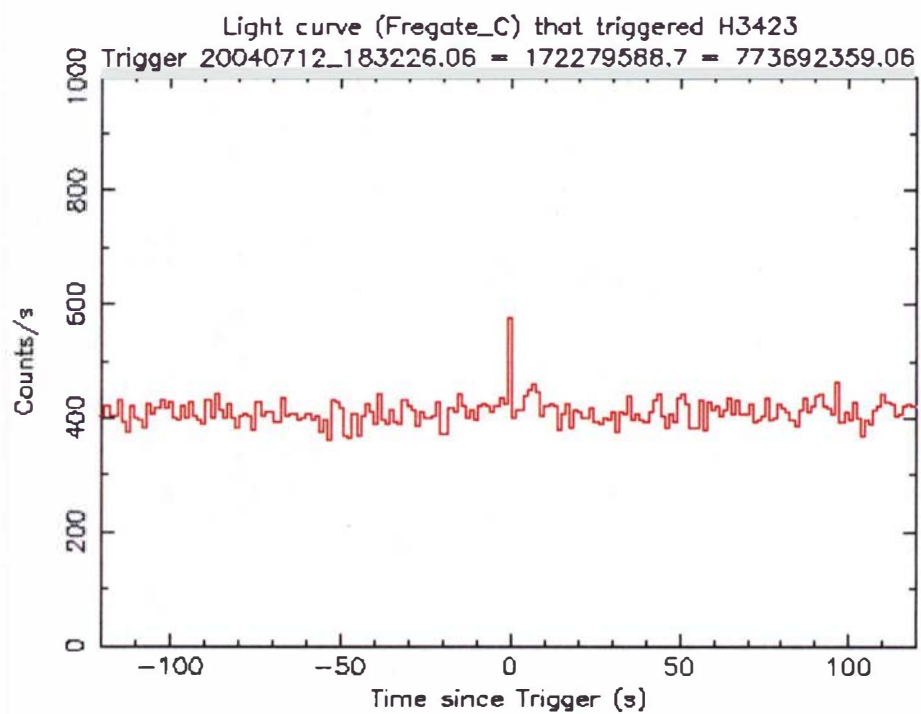
COUNTS/0.031 S



From vxw@capella.gsfc.nasa.gov Wed Jul 14 06:43:14 2004
Date: Wed, 14 Jul 2004 09:44:10 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@sunspot.ssl.berkeley.edu
Subject: GCN/HETE_POSITION

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Wed 14 Jul 04 13:42:47 UT
NOTICE_TYPE: HETE Ground Analysis
TRIGGER_NUM: 3432, Seq_Num: 4
GRB_DATE: 13200 TJD; 196 DOY; 04/07/14
GRB_TIME: 48366.82 SOD {13:26:06.82} UT
TRIGGER_SOURCE: Trigger on the 2-30 keV band.
WXM_SIG/NOISE: 0.1 sig/noise on a 6.080 [sec] timescale
SC_Z_RA: 324 [deg]
SC_Z_DEC: -18 [deg]
SC_LONG: 90 [deg East]
SUN_POSTN: 114.23d {+07h 36m 54s} +21.57d {+21d 34' 17"}
MOON_POSTN: 79.40d {+05h 17m 37s} +26.42d {+26d 25' 11"}
MOON_ILLUM: 8 [%]
COMMENTS: Definitely not a GRB.
COMMENTS: Possible XRB.
COMMENTS: There is no position known for this trigger at this time.
COMMENTS: Burst_Invalidity flag is true.
COMMENTS: Invalid localization by flight code.

Unclassified
Collimator
Mostly band C
S/H?



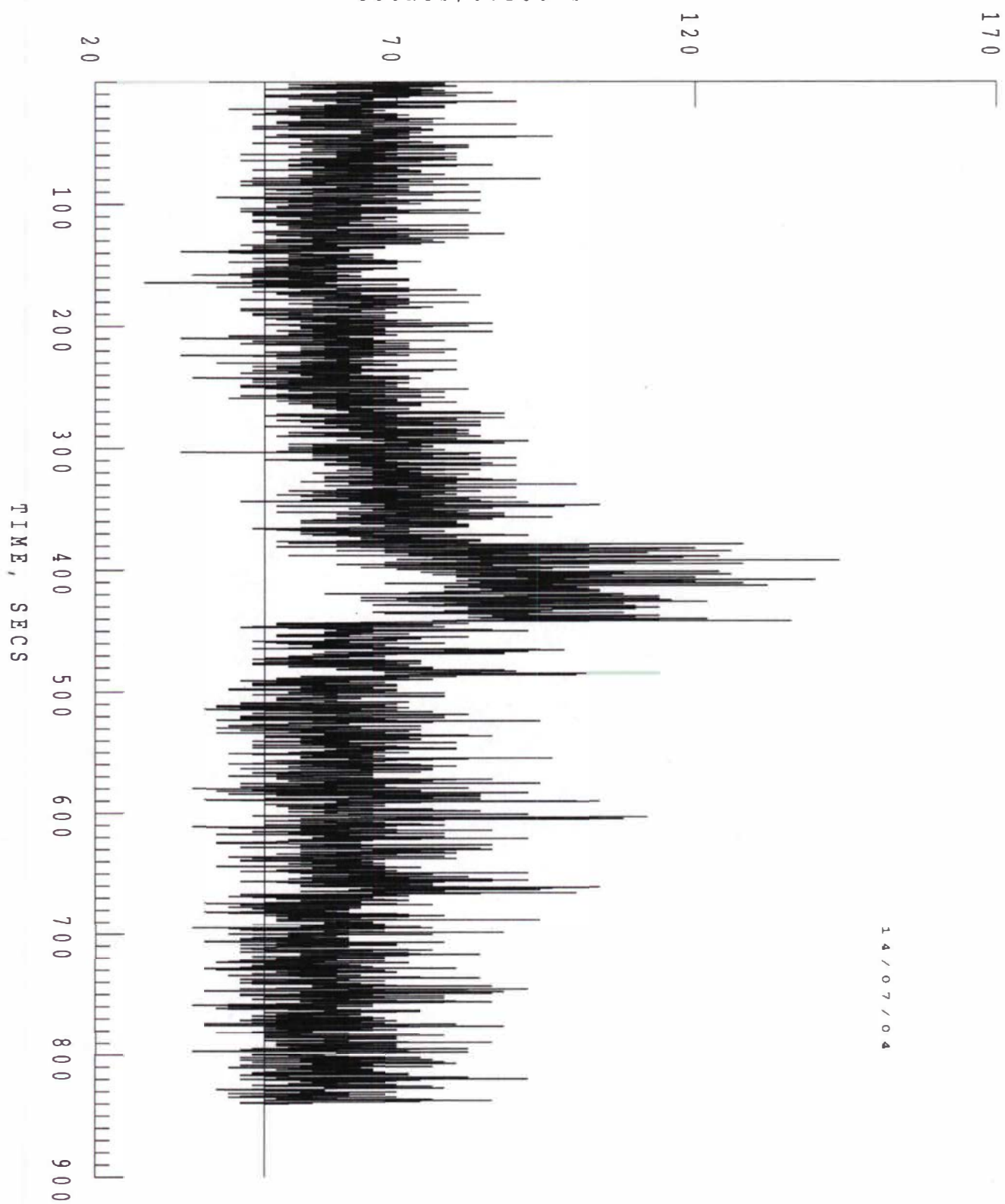
MS01

14/07/04

47025.467

50 - 3000 keV

COUNTS/0.250 S



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_3432_1_20040714_48366)

BEG TIME: 14/07/04 DOY 196 Julian 2453202.05750 UT = 13.380 13:22:48 (48168.000 secs) [sct = 0019 9cd3 e009 f245]
 END TIME: 14/07/04 DOY 196 Julian 2453202.06208 UT = 13.490 13:29:24 (48564.000 secs) [sct = 0019 9cd3 f7a4 6e98]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

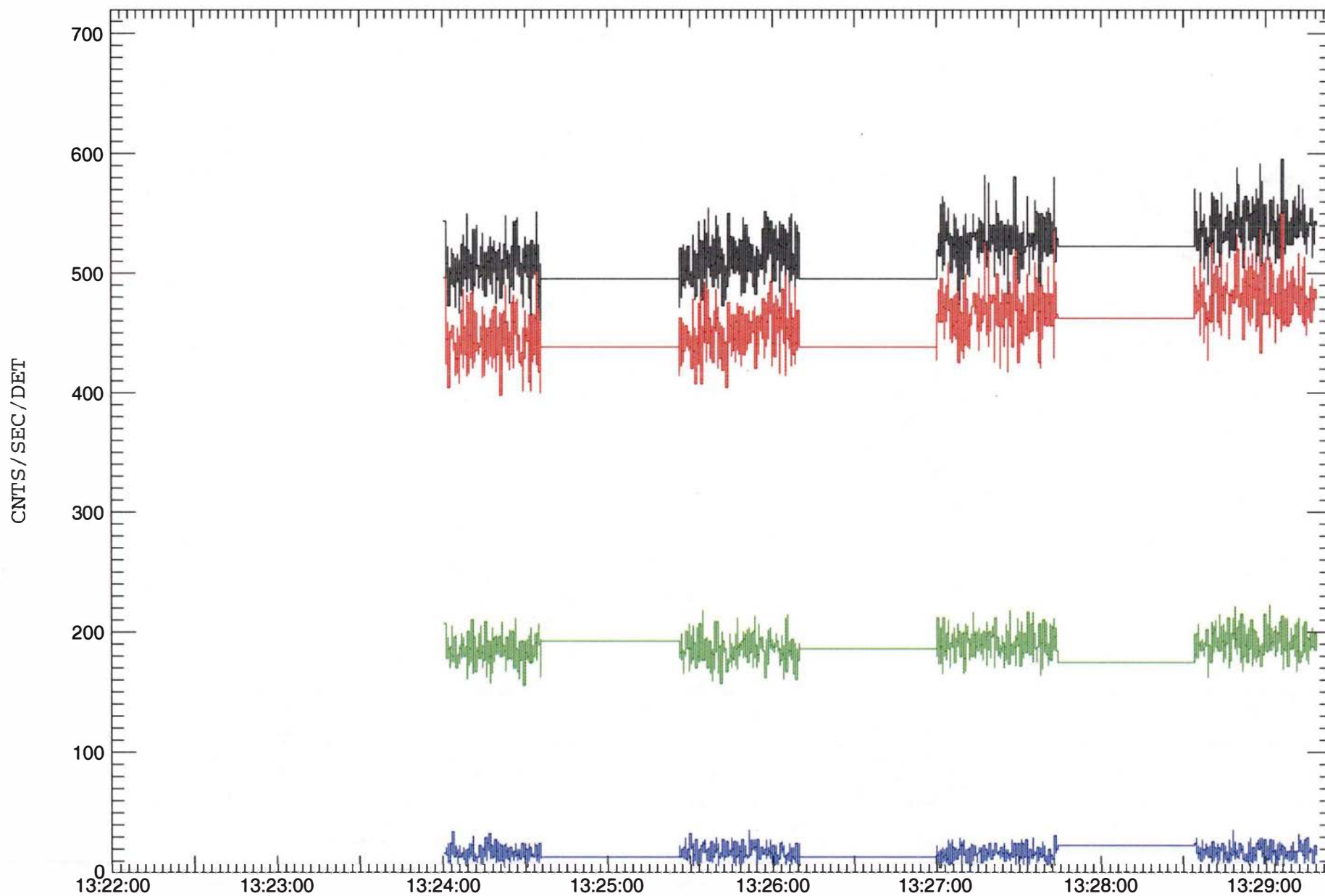
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0

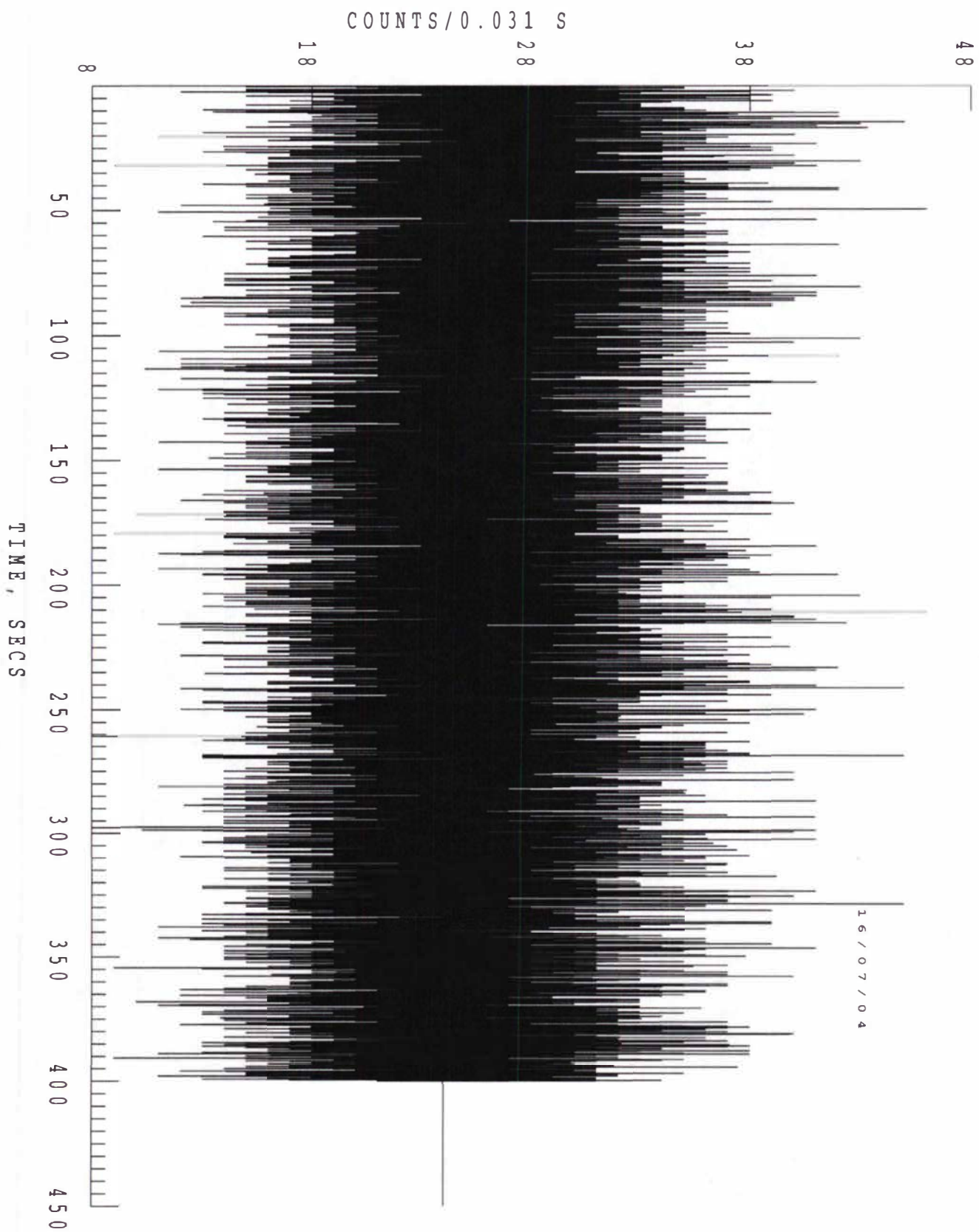


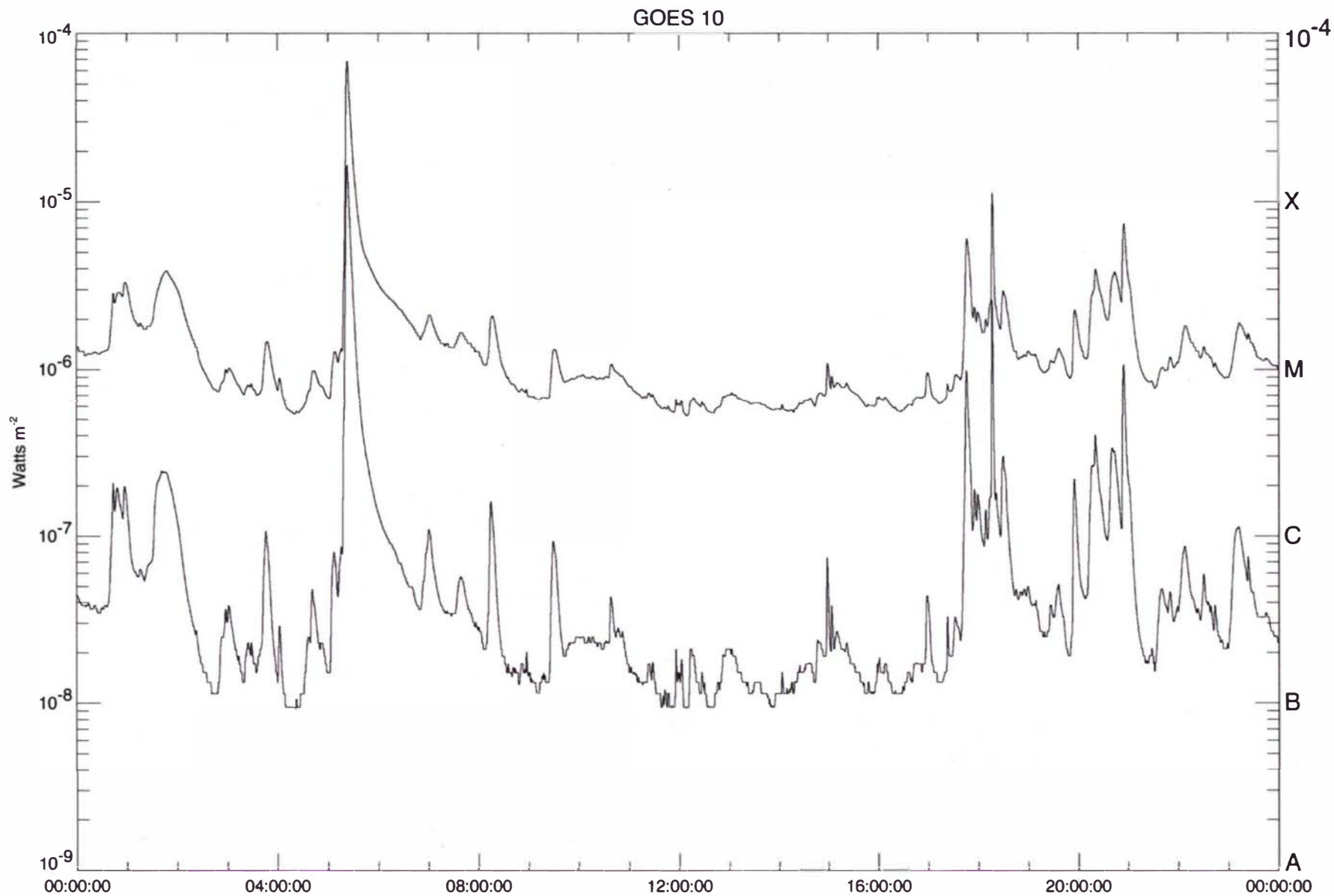
RS UT

HESSI

14/07/04 48166.000 (GHETE_3432_4_20040714_48366)

25- 150 keV





Data Start: 04/07/14, 0000:00

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Plot created: 04/07/15, 0827

Sample average = 10

KONUS2

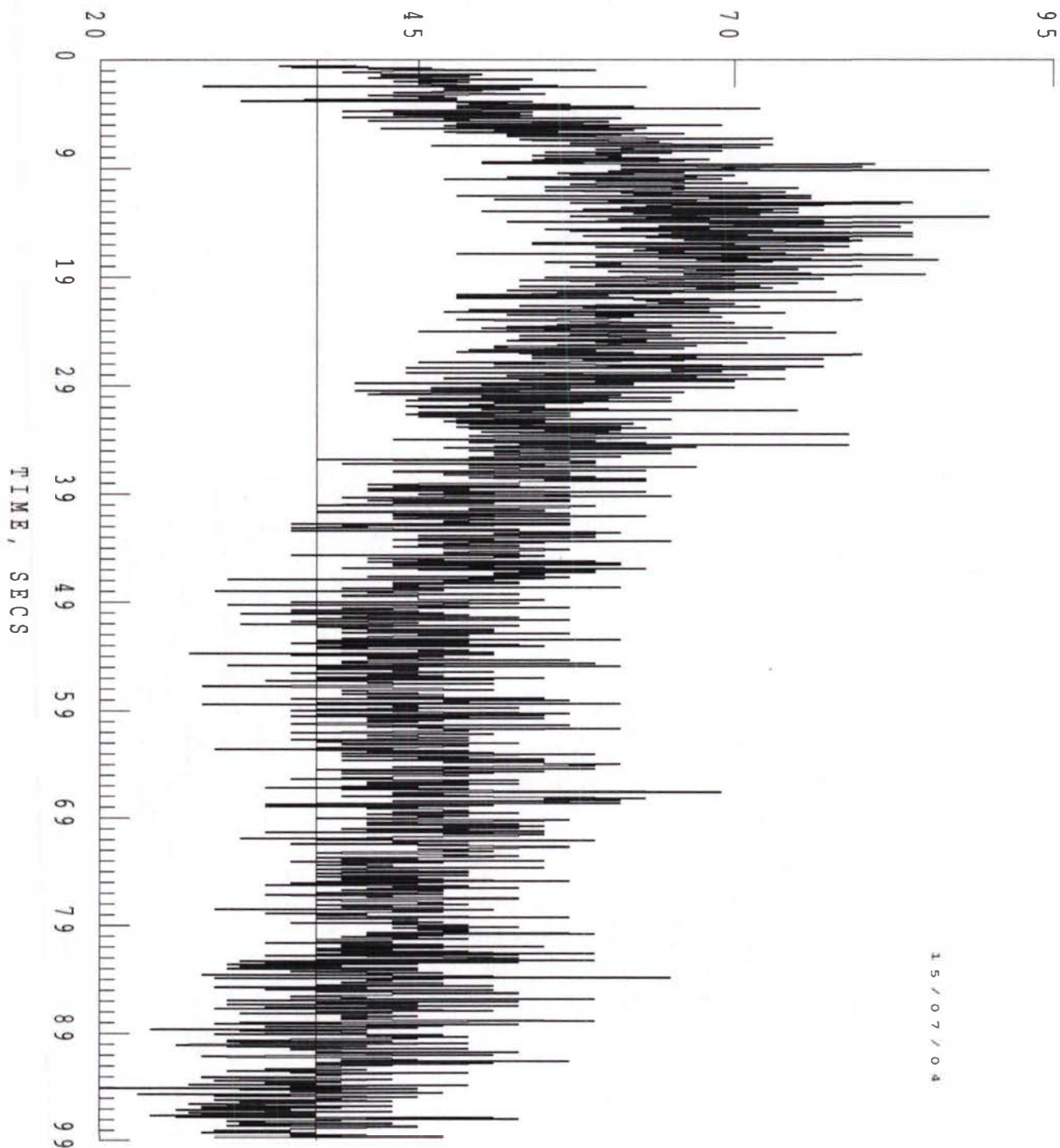
15/07/04

5874.923

50- 200 keV

Solar

COUNTS/0.064 S



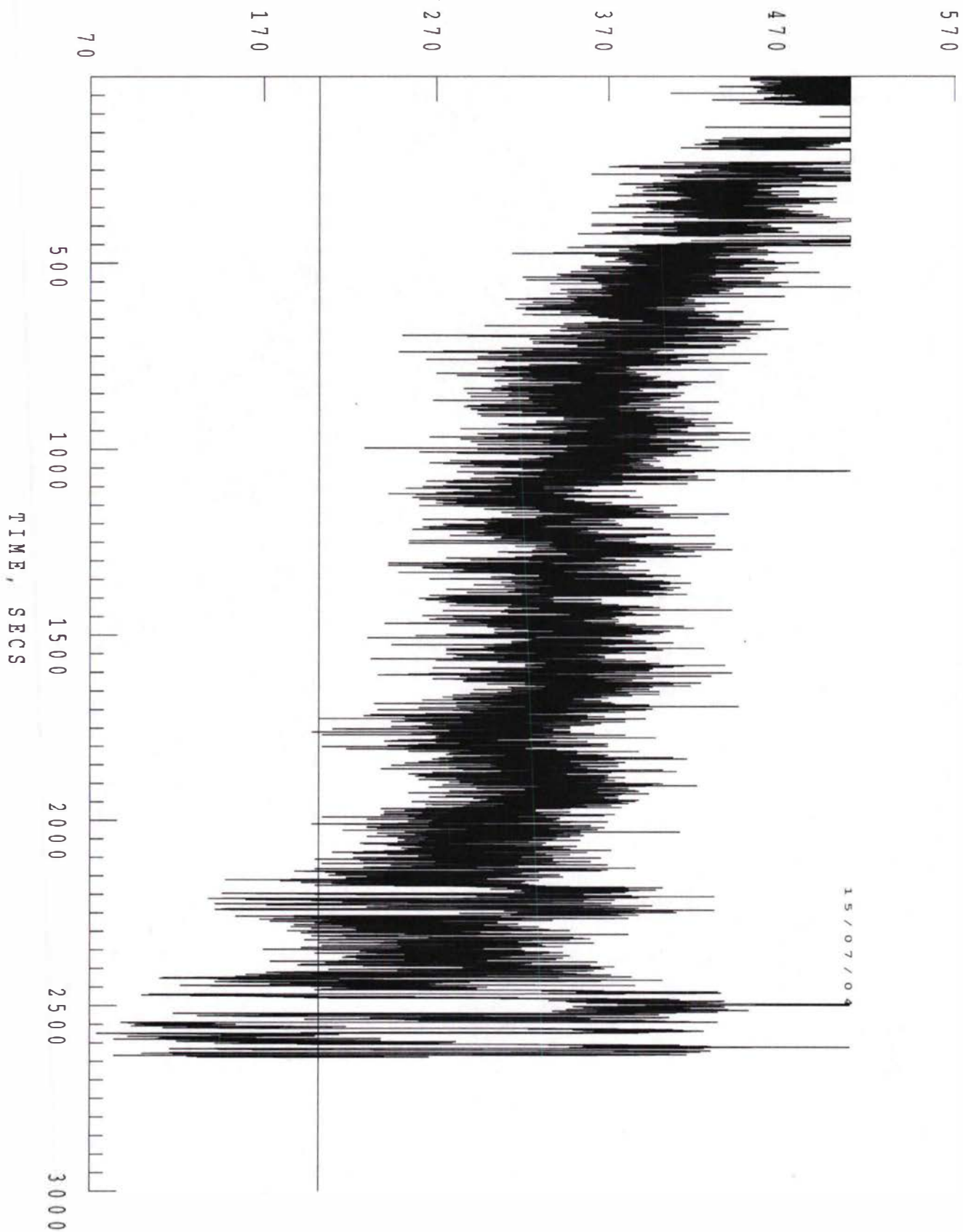
MS01

15/07/04

4544.662

50 - 3000 keV

COUNTS/0.250 S



HESSI

15/07/04

5674.000

(KONUS2_20040715_05874)

25- 150 keV

COUNTS/0.031 S

201

151

101

51

1

50

100

150

200

250

300

350

400

450

TIME, SECS

15/07/04

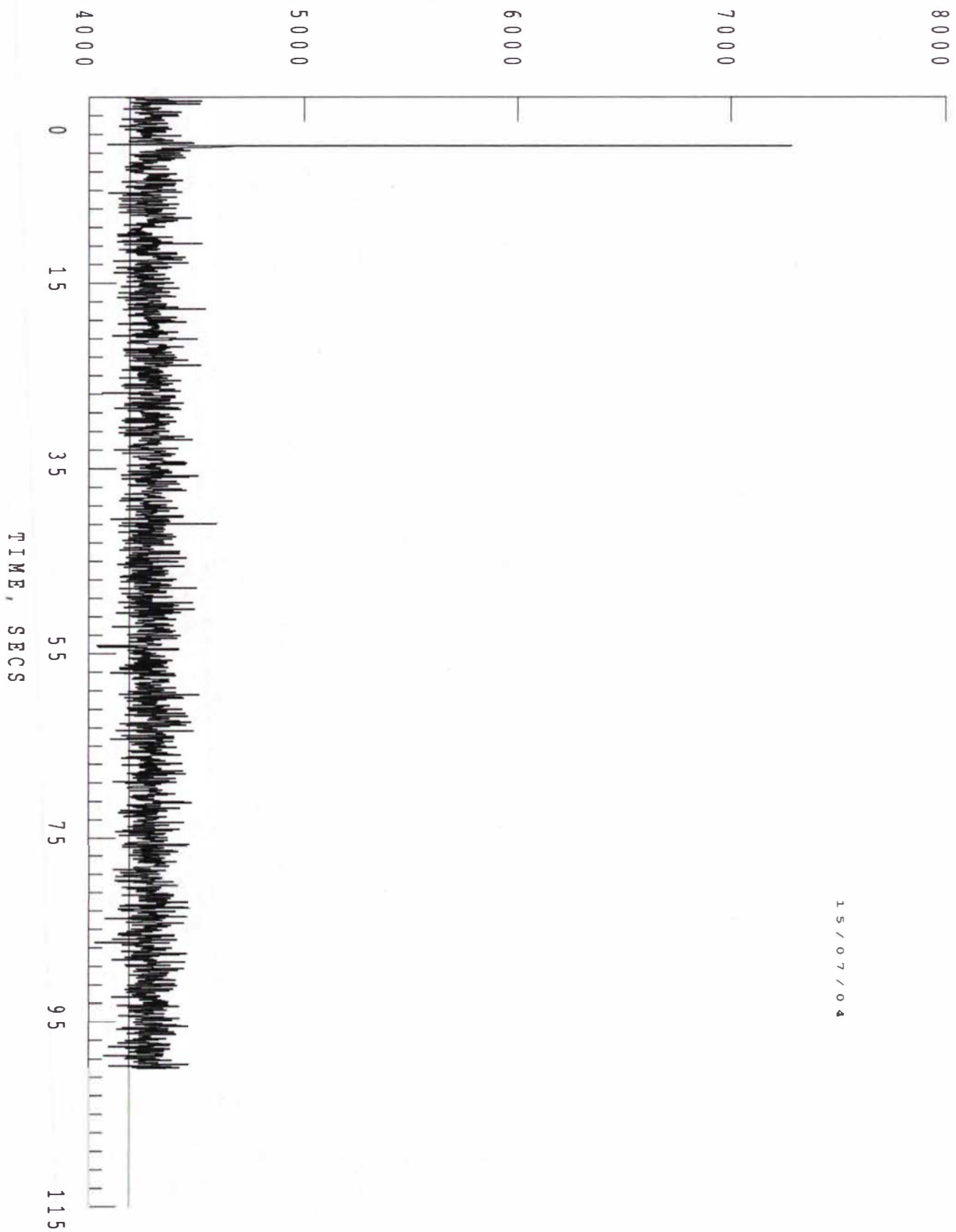
INTEGRAL

15/07/04

27881.494

100-10000 keV

COUNTS/0.050 S



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (INTEGRAL_20040715_27881)

BEG TIME: 15/07/04 DOY 197 Julian 2453202.82042 UT = 07.690 07:41:24 (27684.000 secs) [sct = 0019 9ce3 38f1 2609]
 END TIME: 15/07/04 DOY 197 Julian 2453202.82500 UT = 07.800 07:48:00 (28080.000 secs) [sct = 0019 9ce3 508b a25d]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

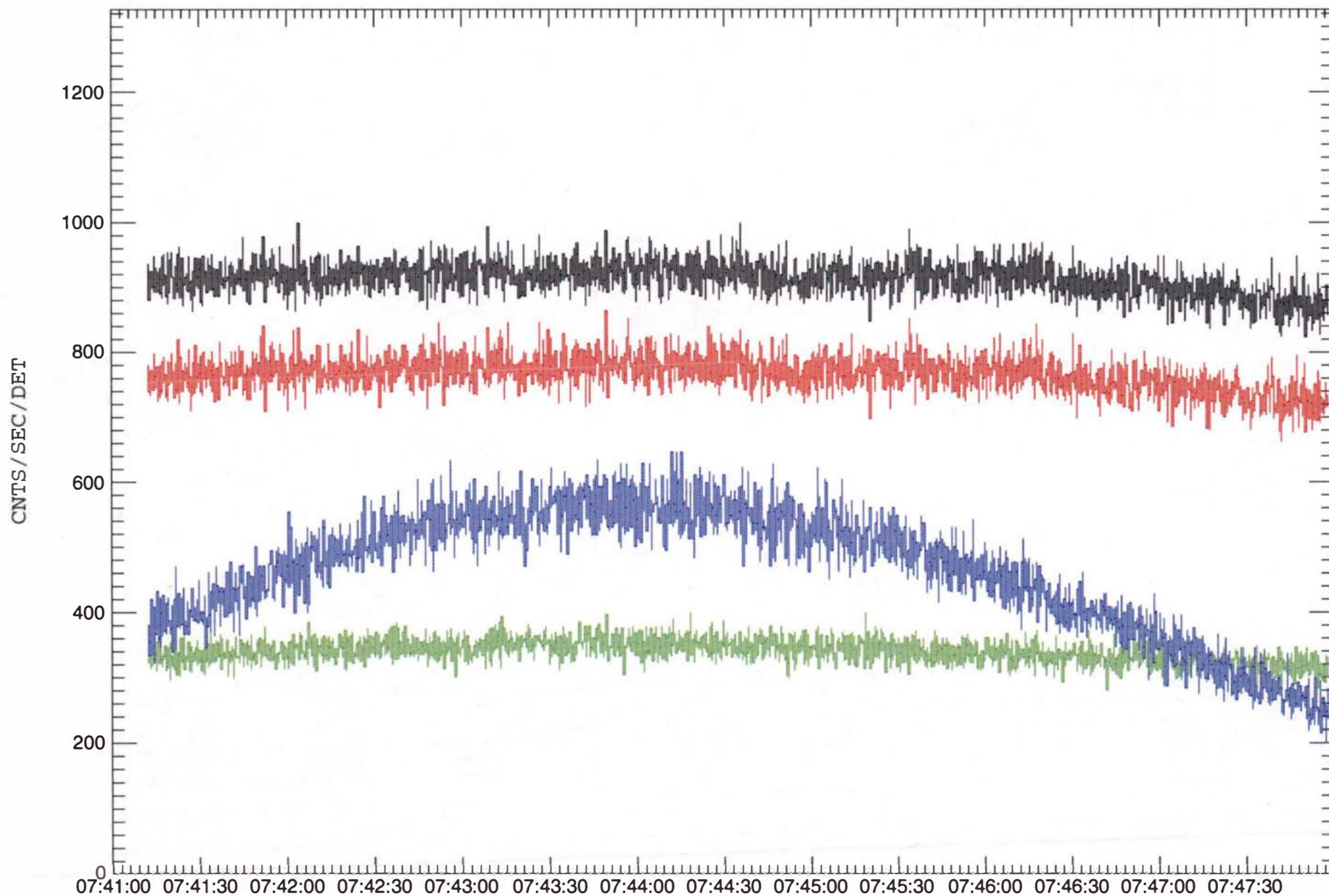
Chan 4:[E6=510 ->]

Channel 1 + 600

Channel 2 + 400

Channel 3 + 200

Channel 4 + 0

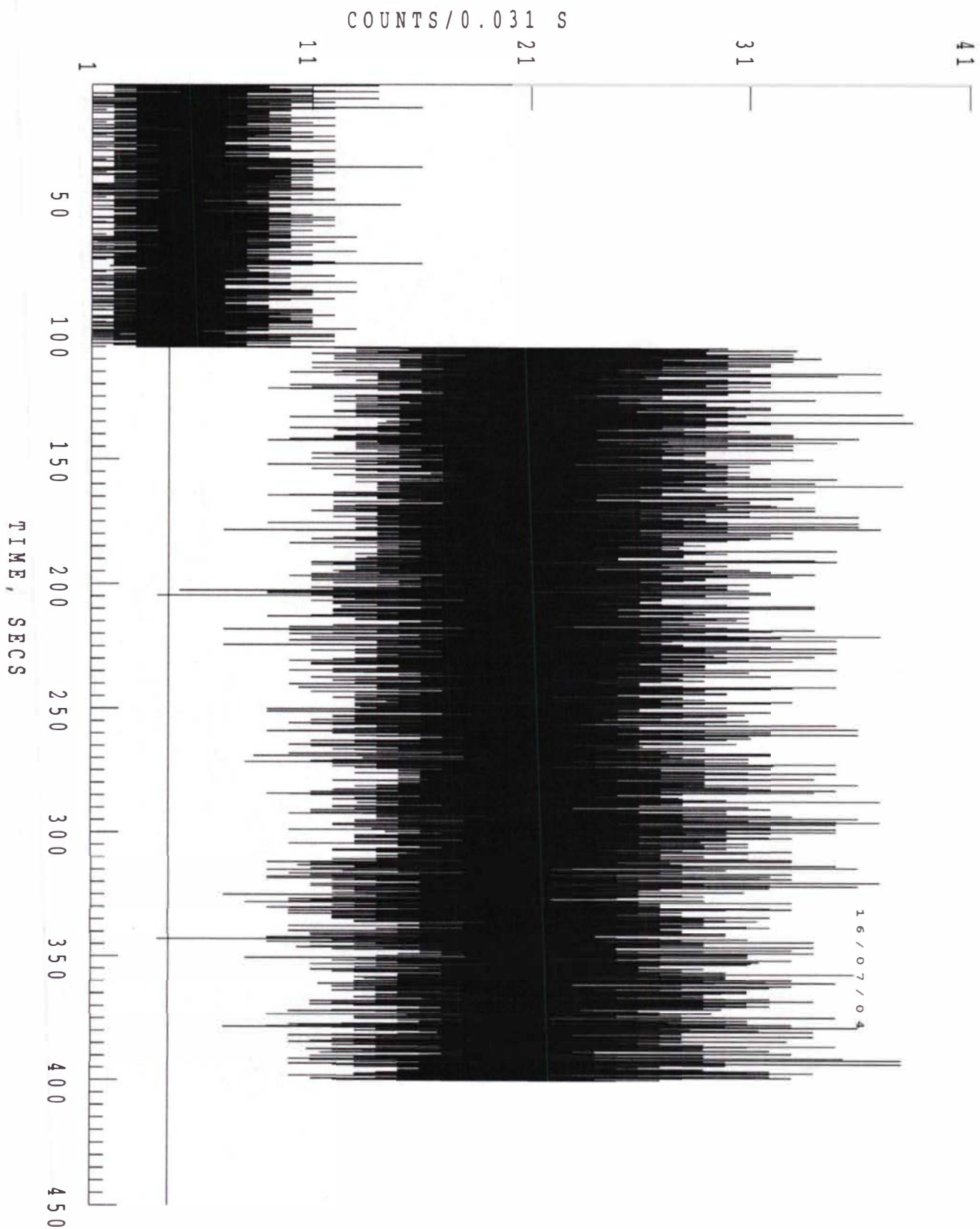


RS UT

HESSI

15/07/04 27681.000 (INTEGRAL_20040715_27881)

25- 150 keV



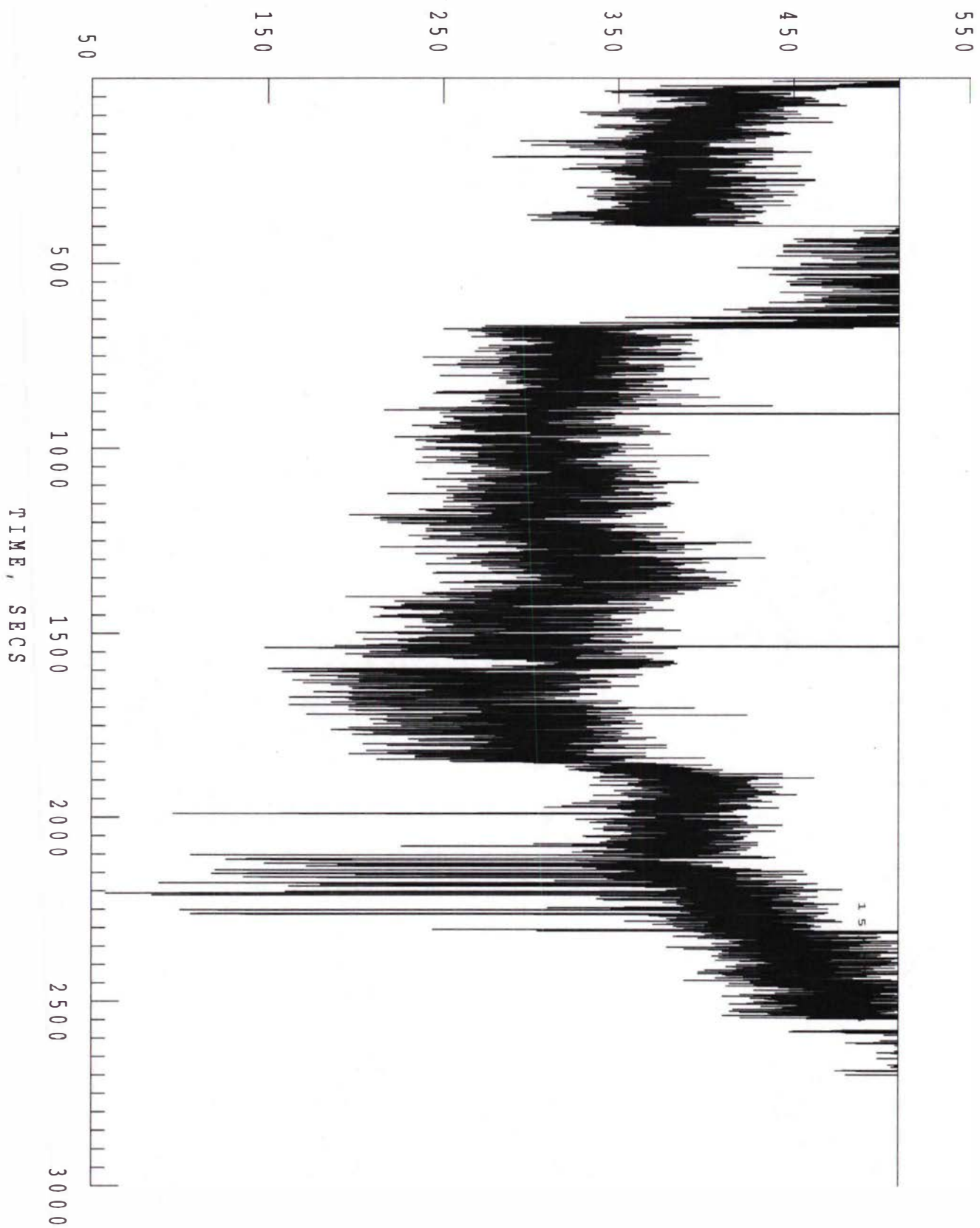
MS01

15/07/04

26504.250

50 - 3000 keV

COUNTS/0.250 S



KONUS2

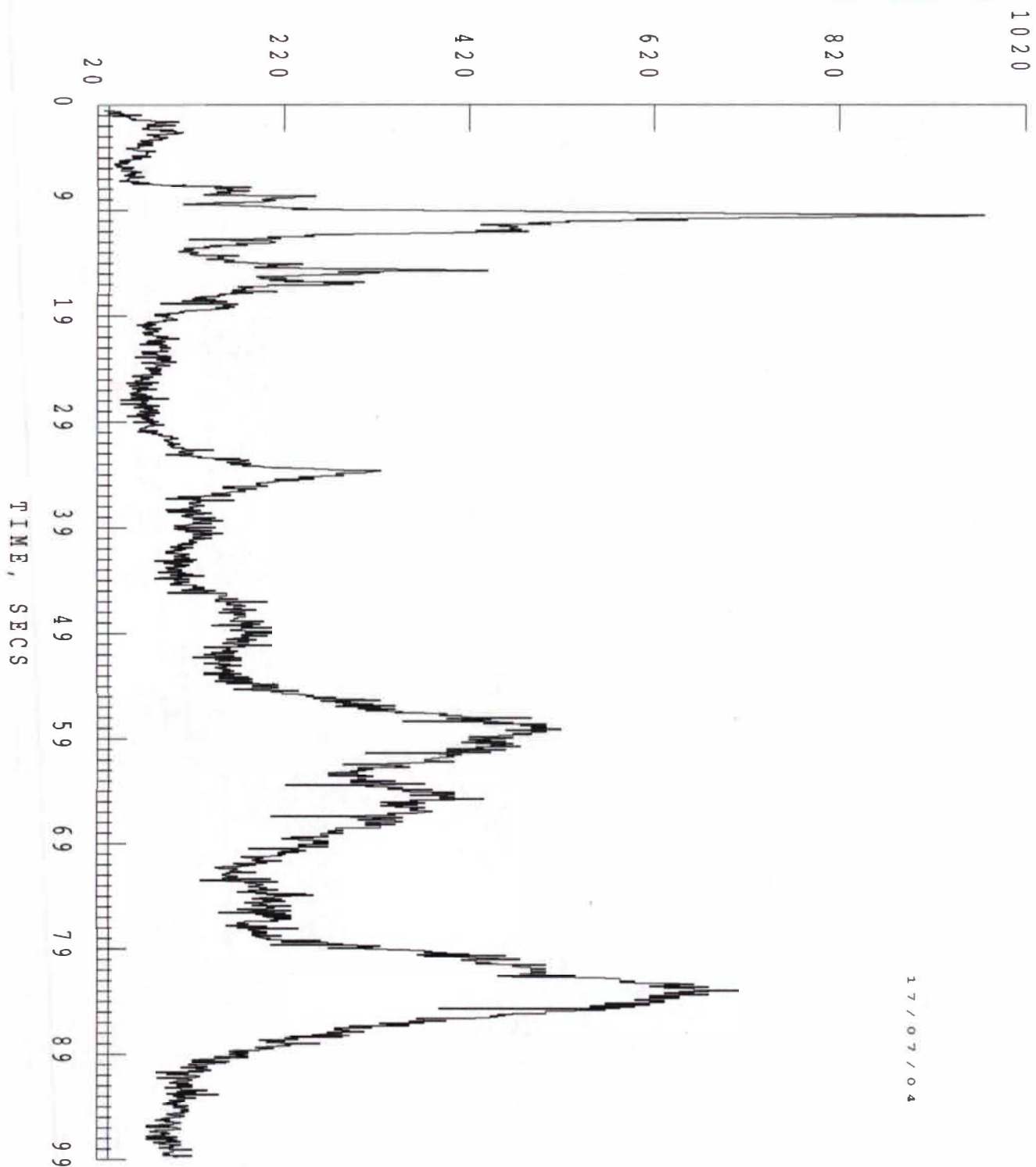
15/07/04

66095.212

50 - 200 keV

COUNTS/0.064 S

*Prob. solar
Not in either of
the KONUS lists*



KONUS HRES 20040715 05874

TRIGGER TIME: 15/07/04 DOY 197 Julian 2453202.56799 UT = 01.632 01:37:54 (05874.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

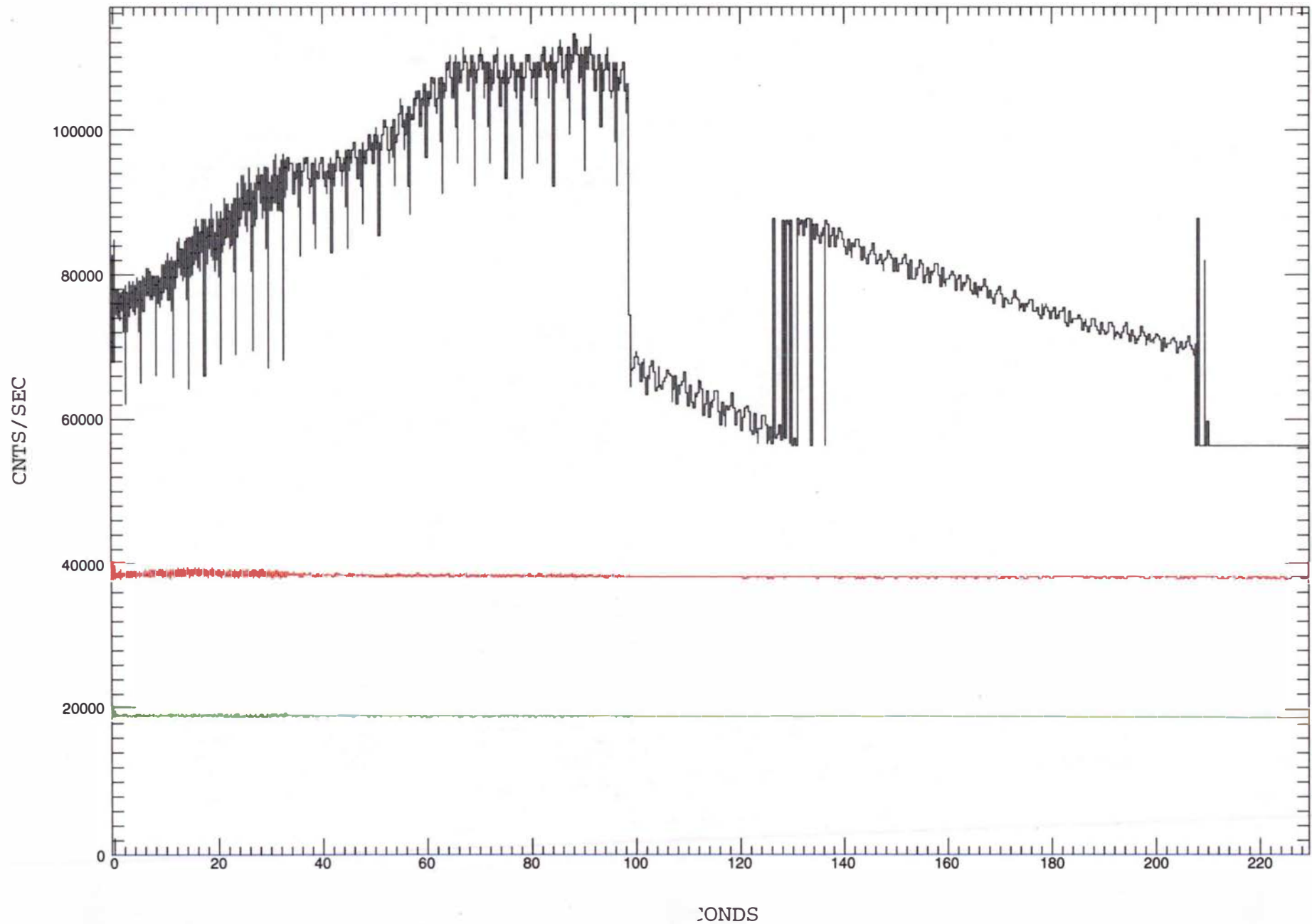
Chan 4 : [> 10 MeV]

Channel 1 + 56400

Channel 2 + 37600

Channel 3 + 18800

Channel 4 + 0



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20040715_66095)

BEG TIME: 15/07/04 DOY 197 Julian 2453203.26250 UT = 18.300 18:18:00 (65880.000 secs) [sct = 0019 9cec 1d9a 5a67]
 END TIME: 15/07/04 DOY 197 Julian 2453203.26750 UT = 18.420 18:25:12 (66312.000 secs) [sct = 0019 9cec 375a 27d9]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

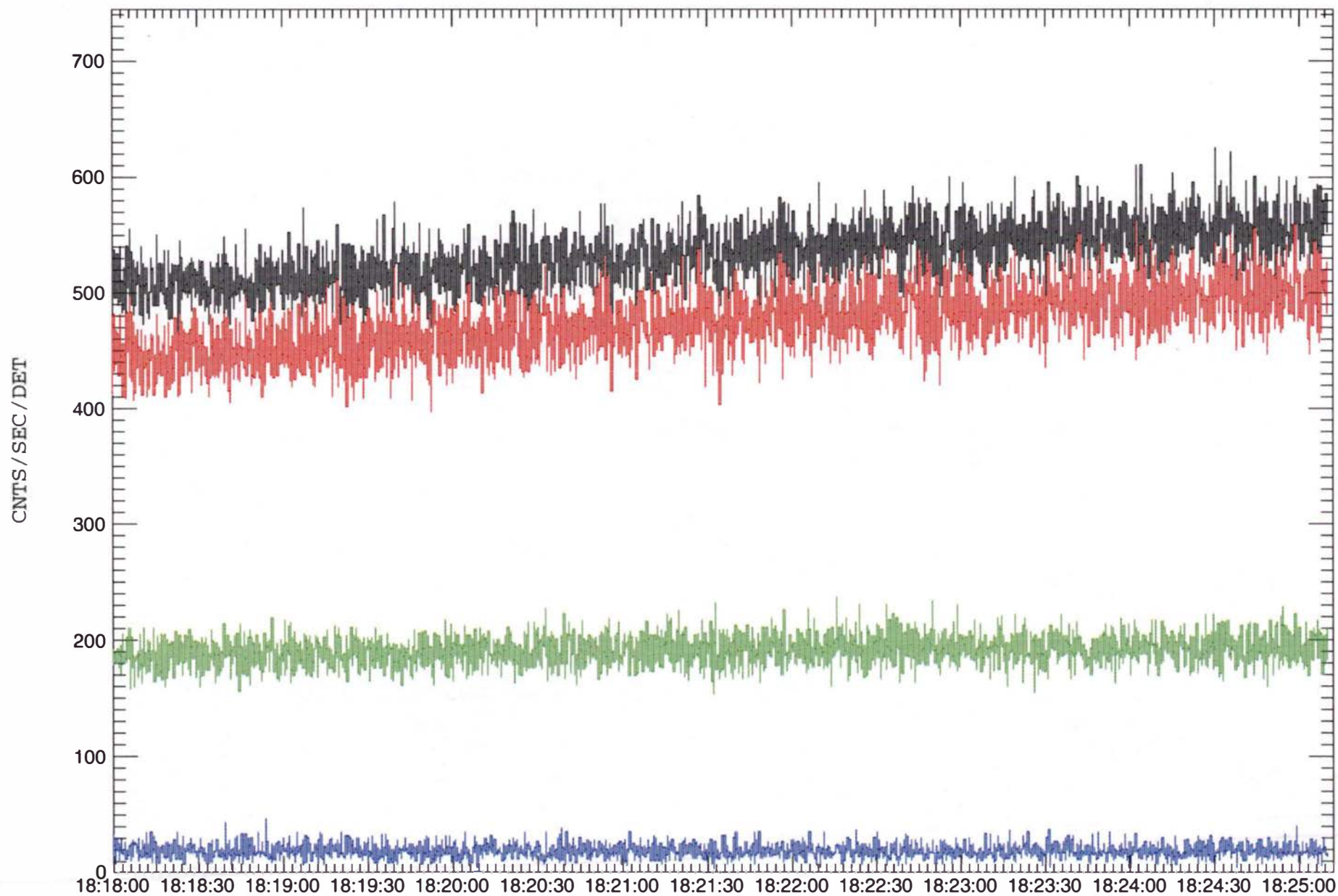
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

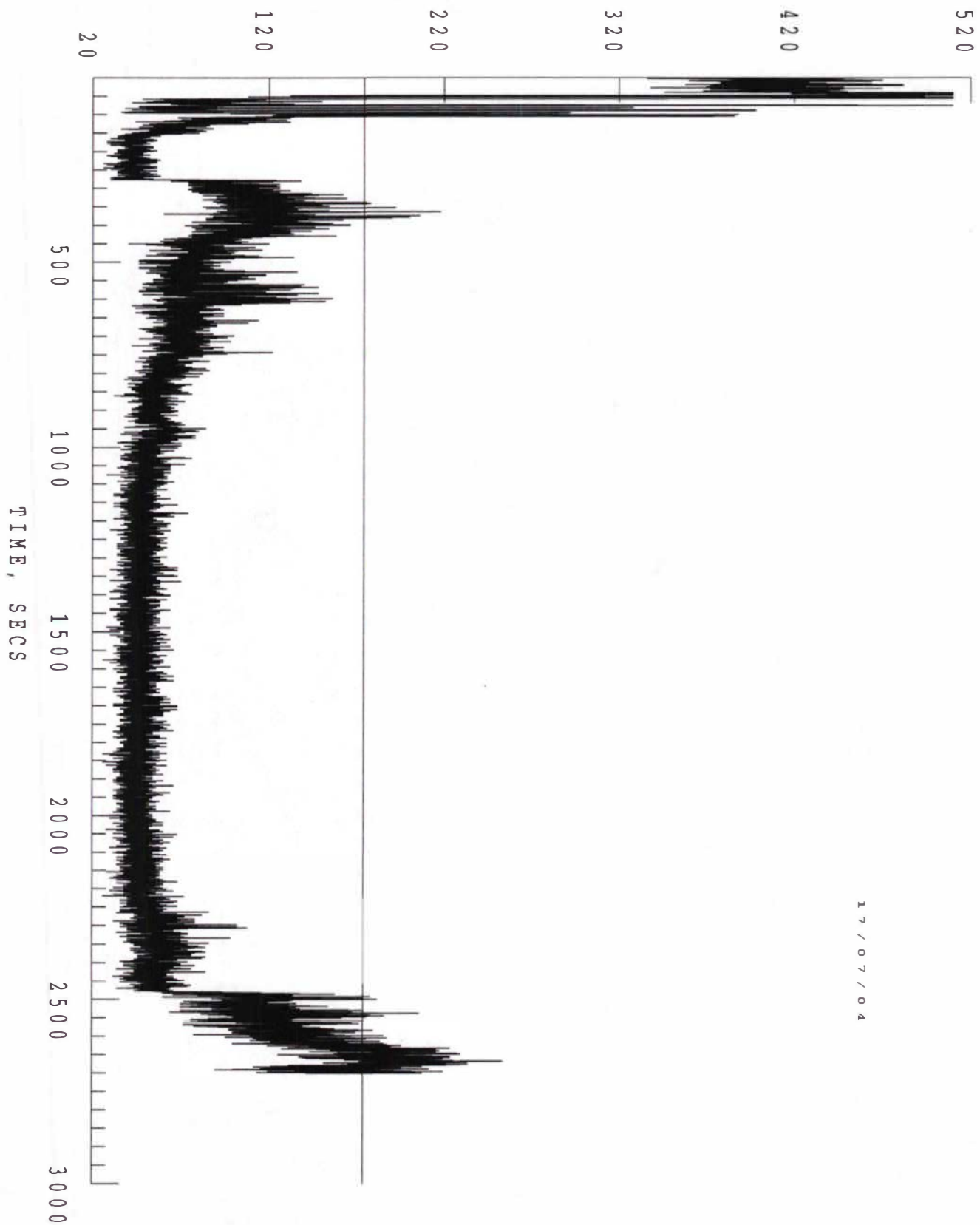
MS01

15/07/04

64723.543

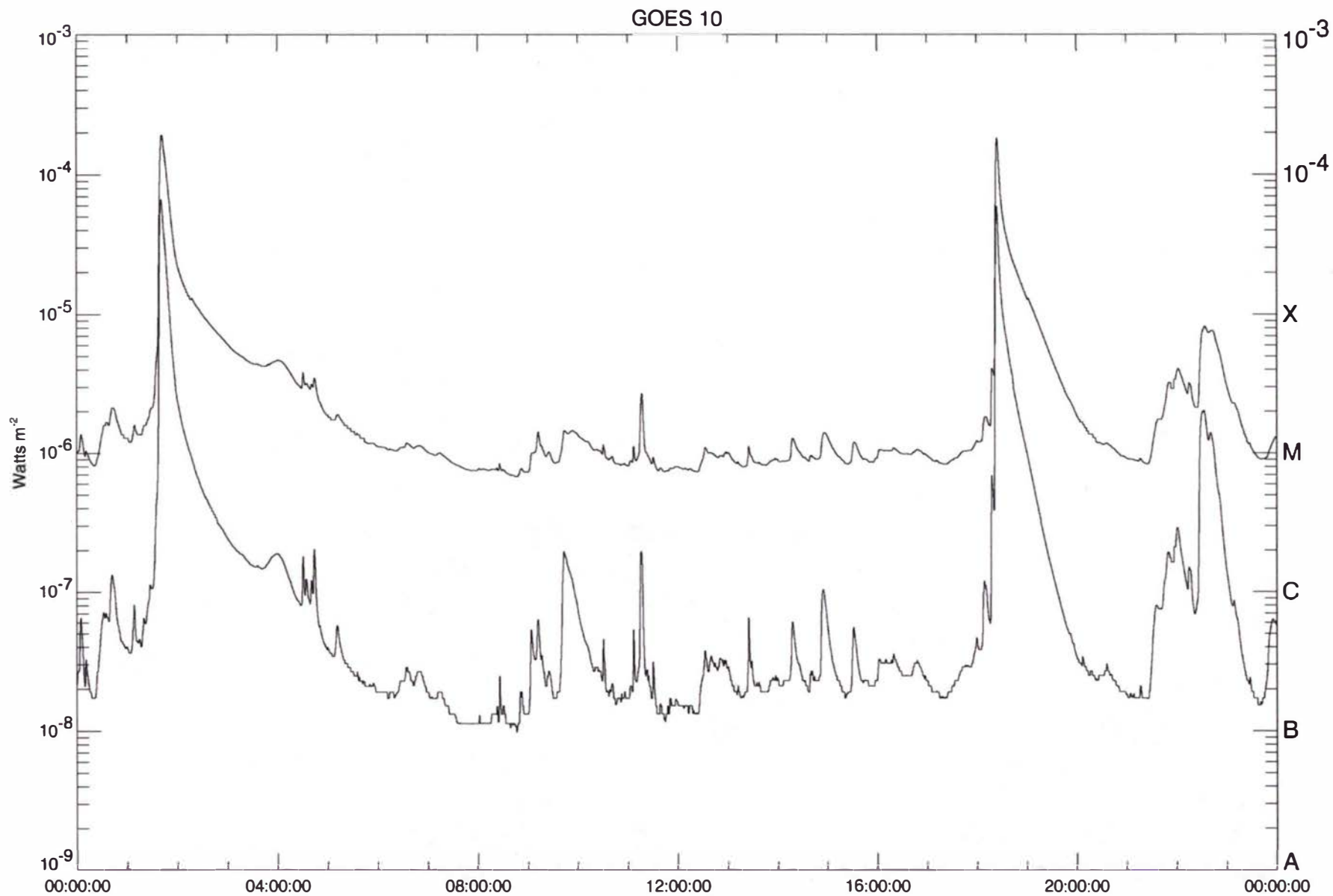
50 - 3000 keV

COUNTS/0.250 S



From williams@sunspot.ssl.berkeley.edu Wed Jul 21 00:59:35 2004
Date: Wed, 21 Jul 2004 01:02:37 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20040715_66095

HESSI 25 to 150 keV Counts
Created 21-Jul-2004 00:59:17.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0312500
No SAA
No Eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry



Data Start: 04/07/15, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/16, 0827

Sample average = 10

KONUS2

16/07/04

7330.530

50- 200 keV

*Prob. solar
Not in either of
the Konus lists*

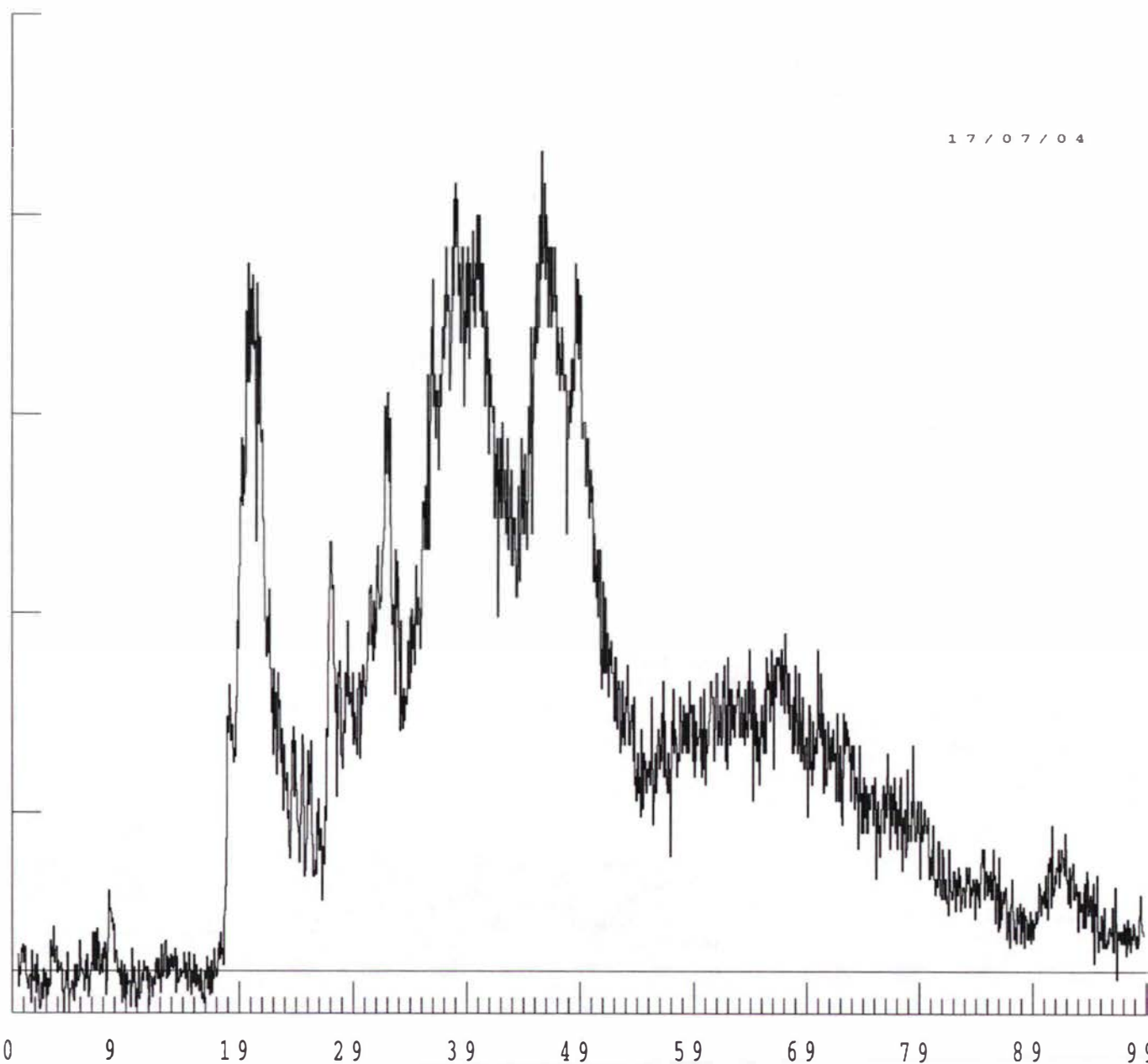
COUNTS/0.064 S

520
420
320
220
120
20

0 9 19 29 39 49 59 69 79 89 99

TIME, SECS

17/07/04



KONUS HRES 20040716 07329

TRIGGER TIME: 16/07/04 DOY 198 Julian 2453203.58484 UT = 02.036 02:02:09 (07330.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

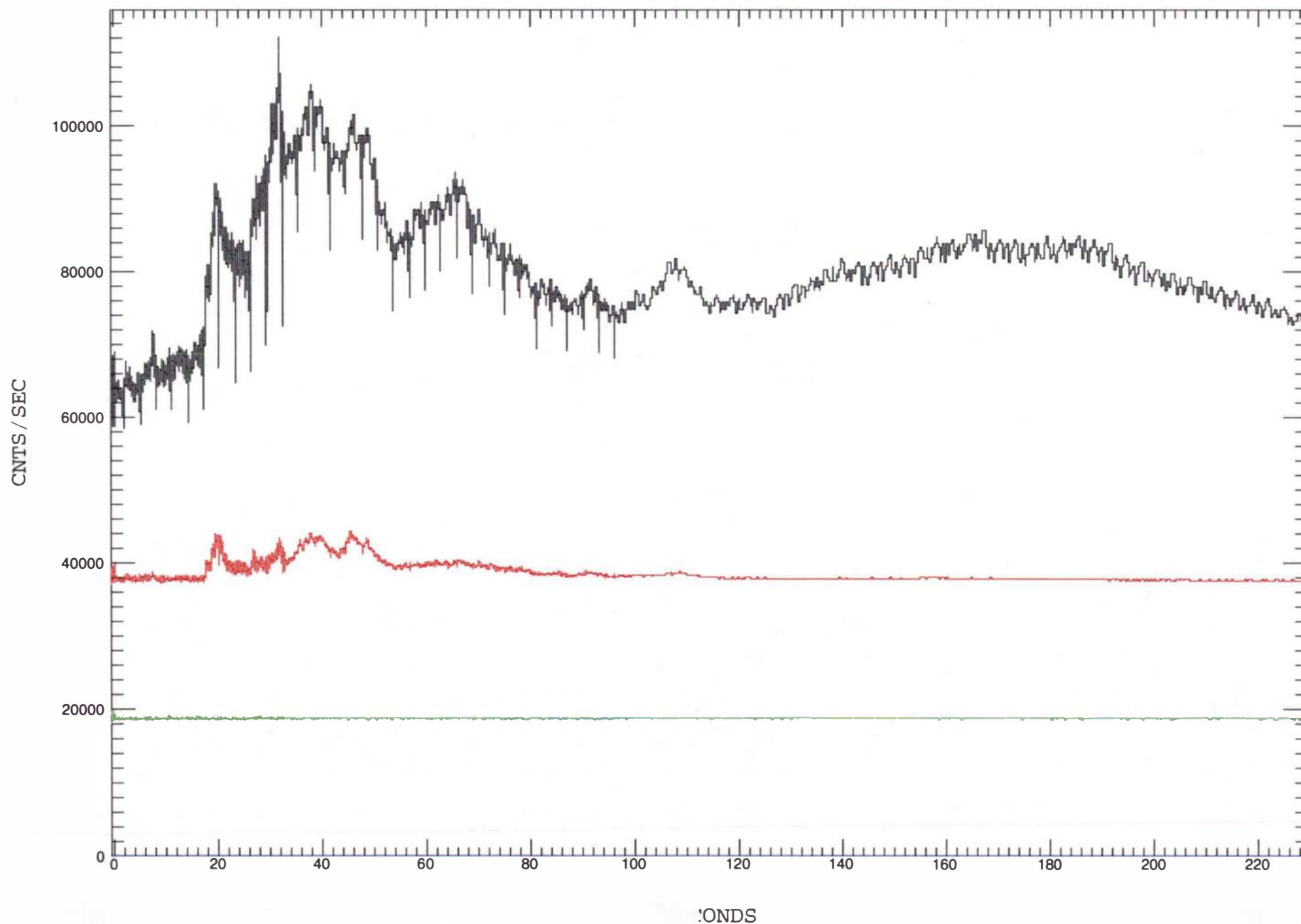
Chan 4 : [> 10 MeV]

Channel 1 + 55800

Channel 2 + 37200

Channel 3 + 18600

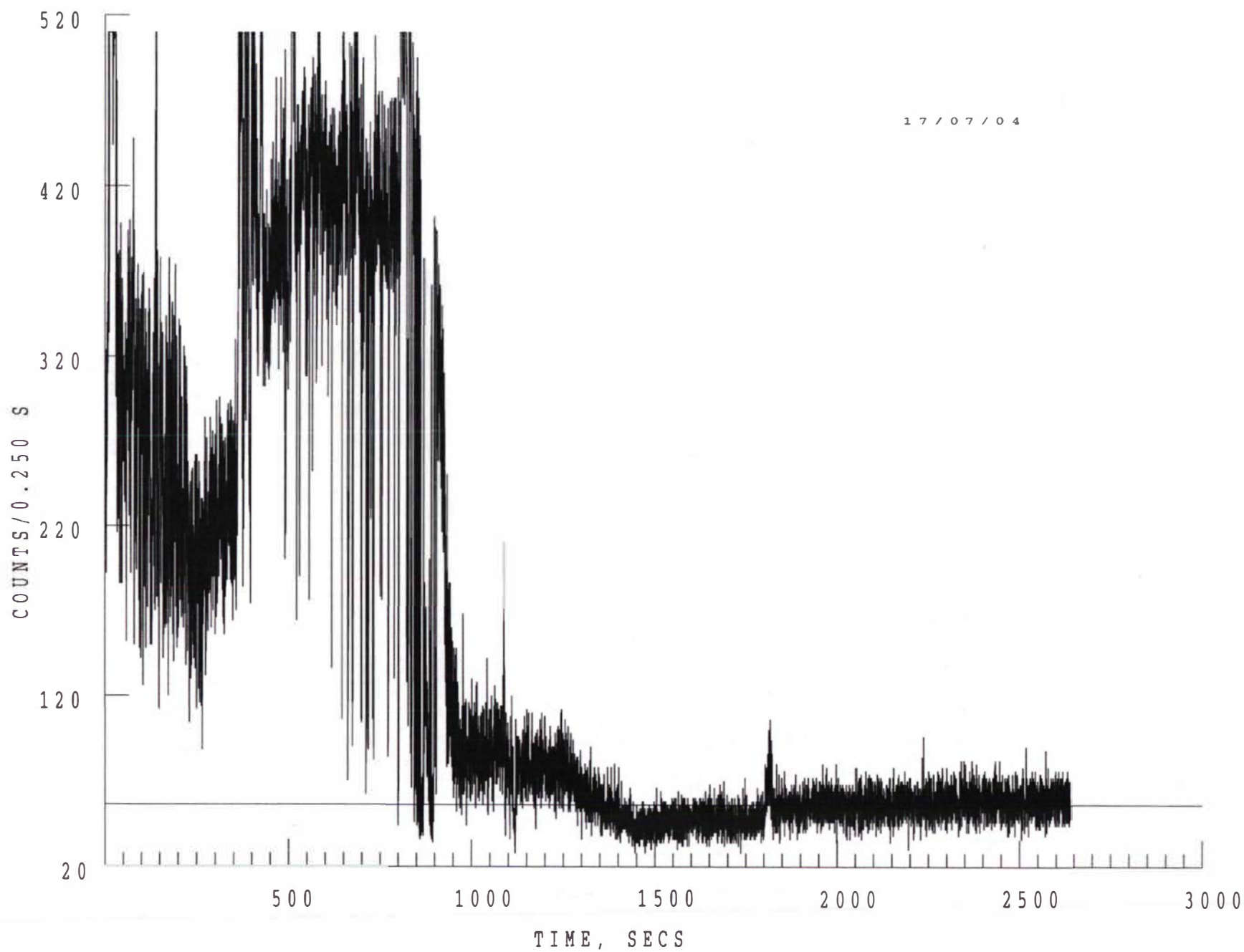
Channel 4 + 0



16/07/04 5983.340

50- 3000 keV

MS01

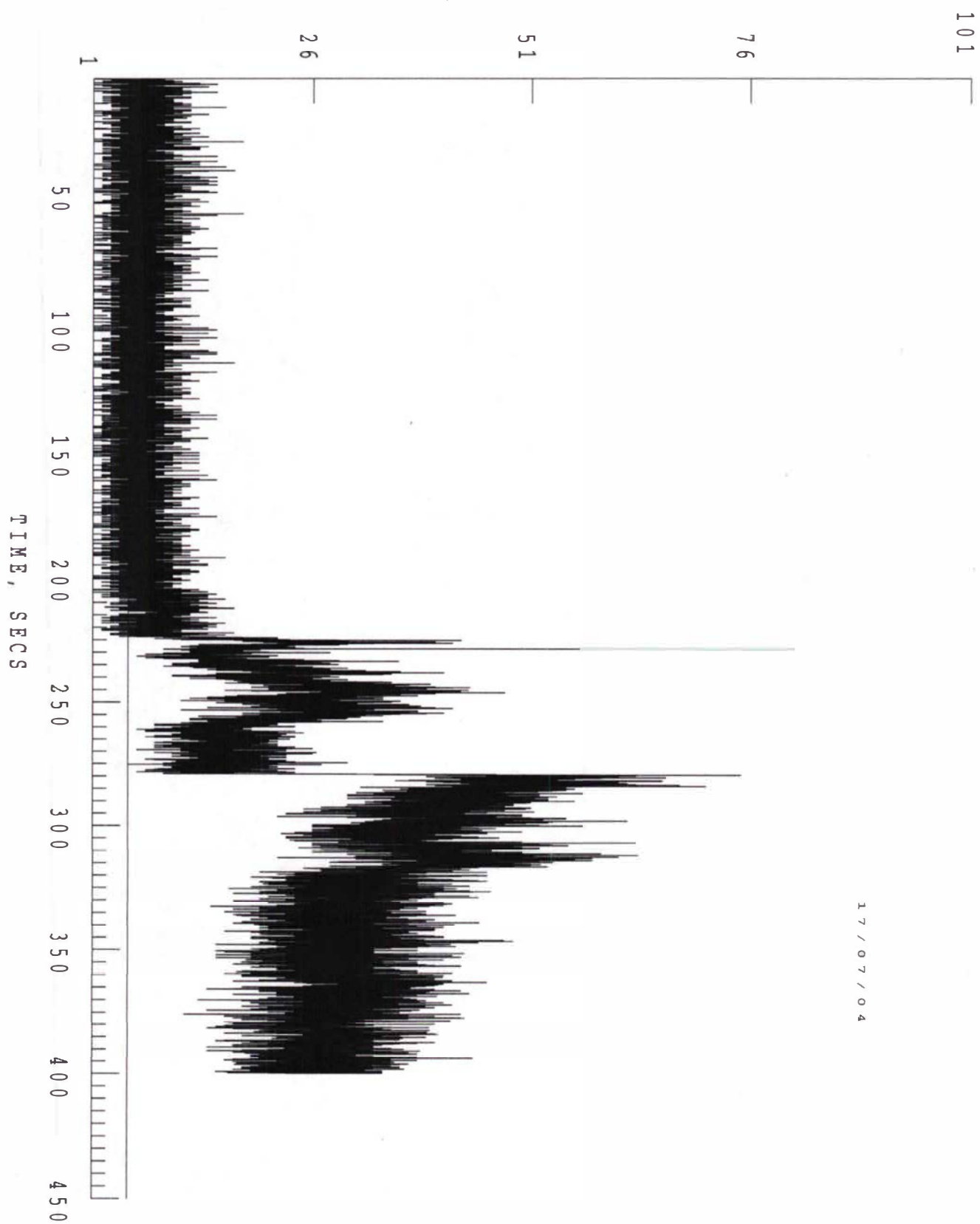


HESSI

16/07/04 7130.000 (KONUS2_20040716_07330)

25- 150 keV

COUNTS/0.031 S



Date: Aug 2

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

- ☐ 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; when there is no data in the database, the ephemeris is for the time requested.)
- ☐ Was Mars-blocking used?

2. For 3 Spacecraft events

- ☐ $\Sigma 3\Delta t$'s calculated?

3. For INTEGRAL events

- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT? N/A
- ☐ Updated ephemeris used for bursts prior to September 30, 2003? N/A

-
- ☒ ACCESS database updated?

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

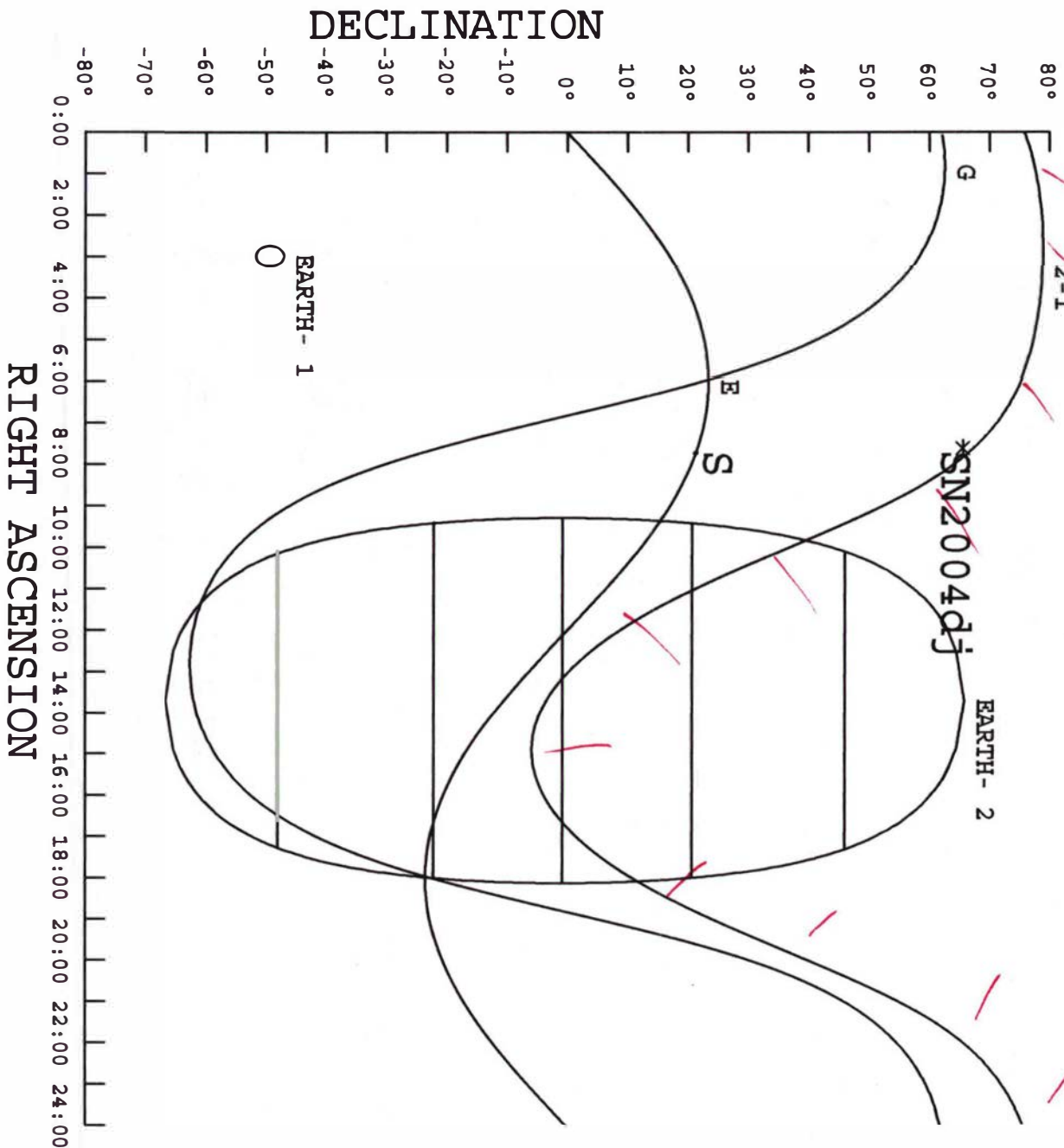
G=GALACTIC EQUATOR

1 INTEGRAL

2 RHESSI

EVENT OF JUL 16, 2004 3:02

6 / 8 / 4



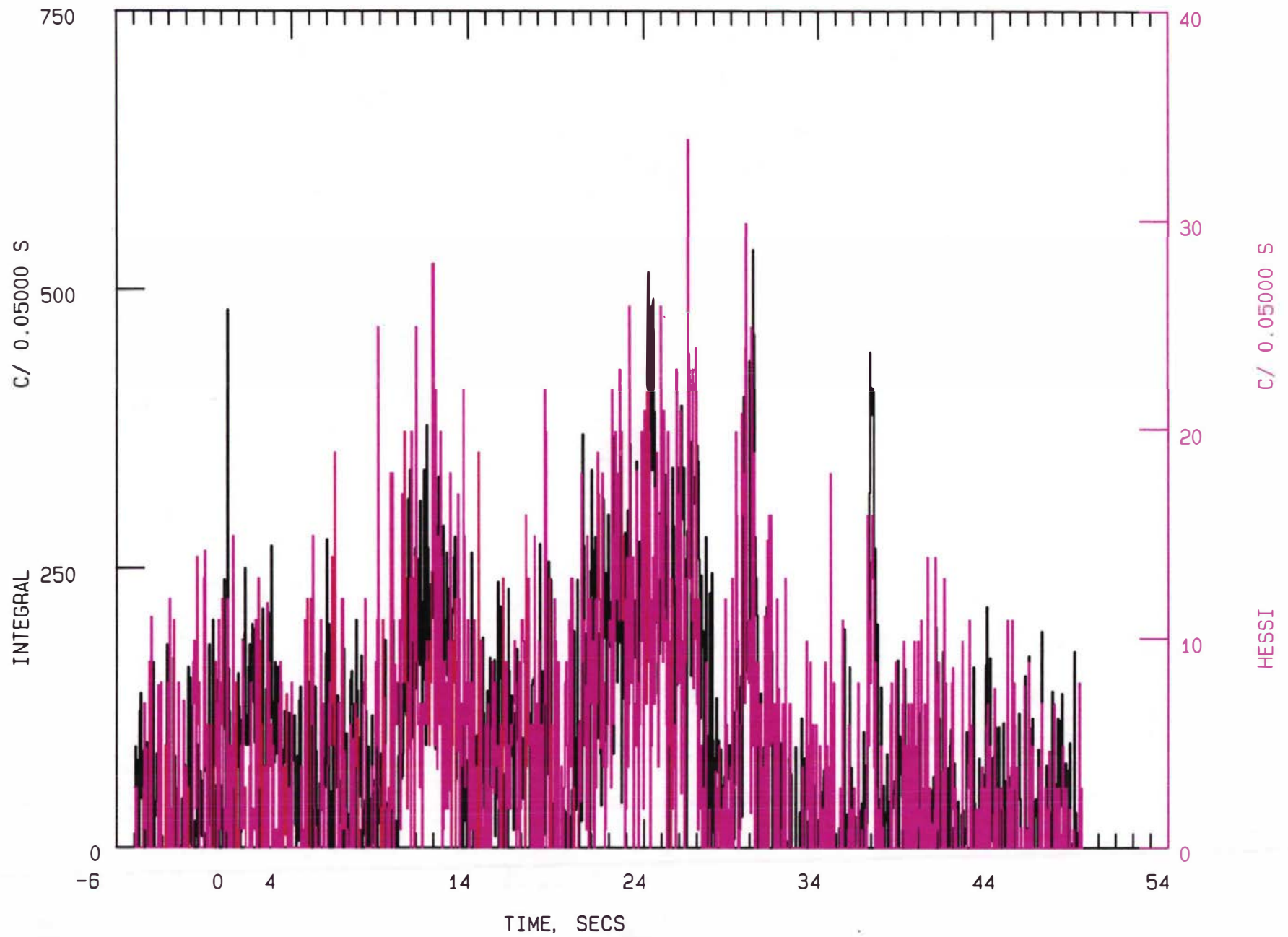
INTEGRAL -HESSI

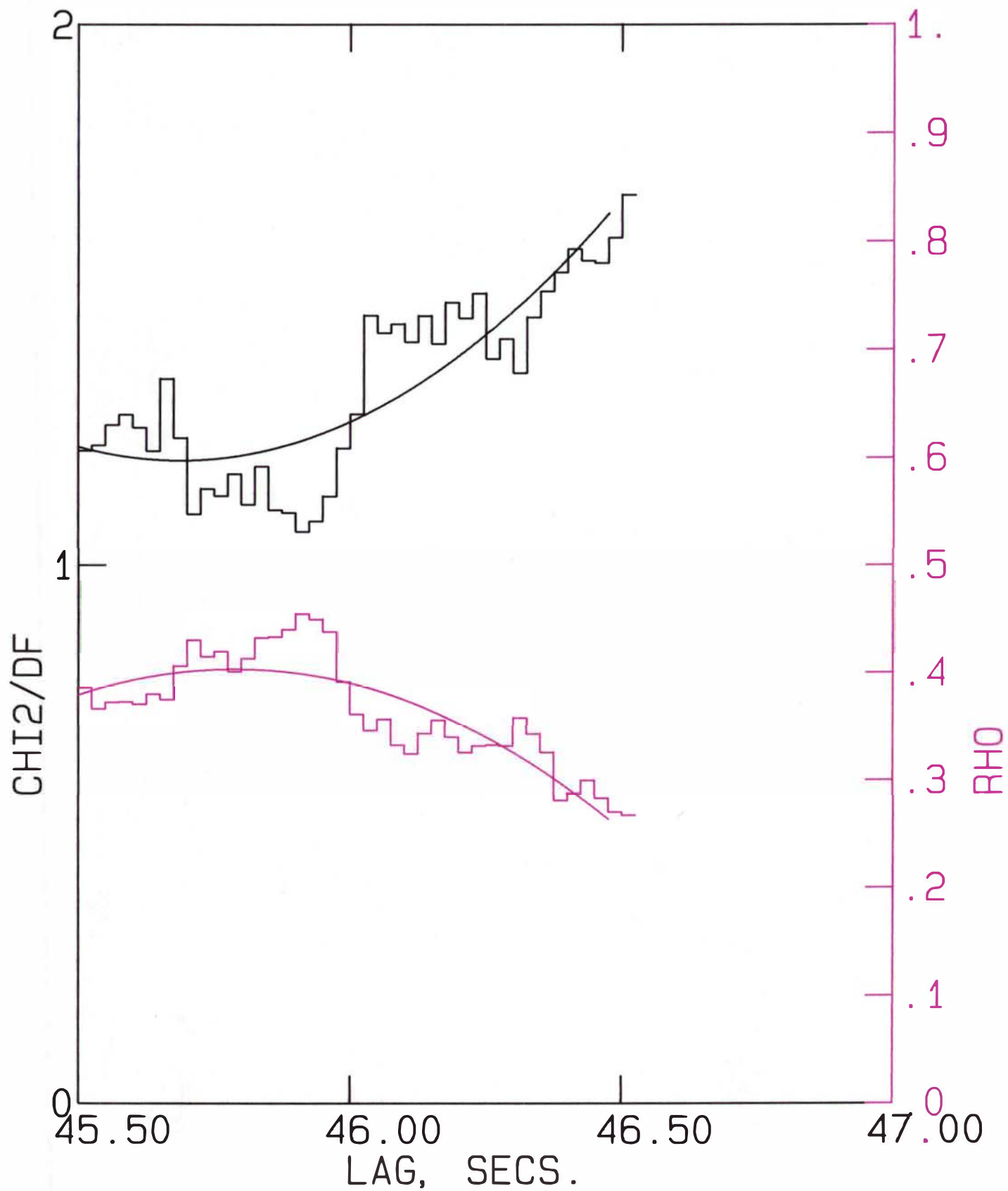
CORRELATION

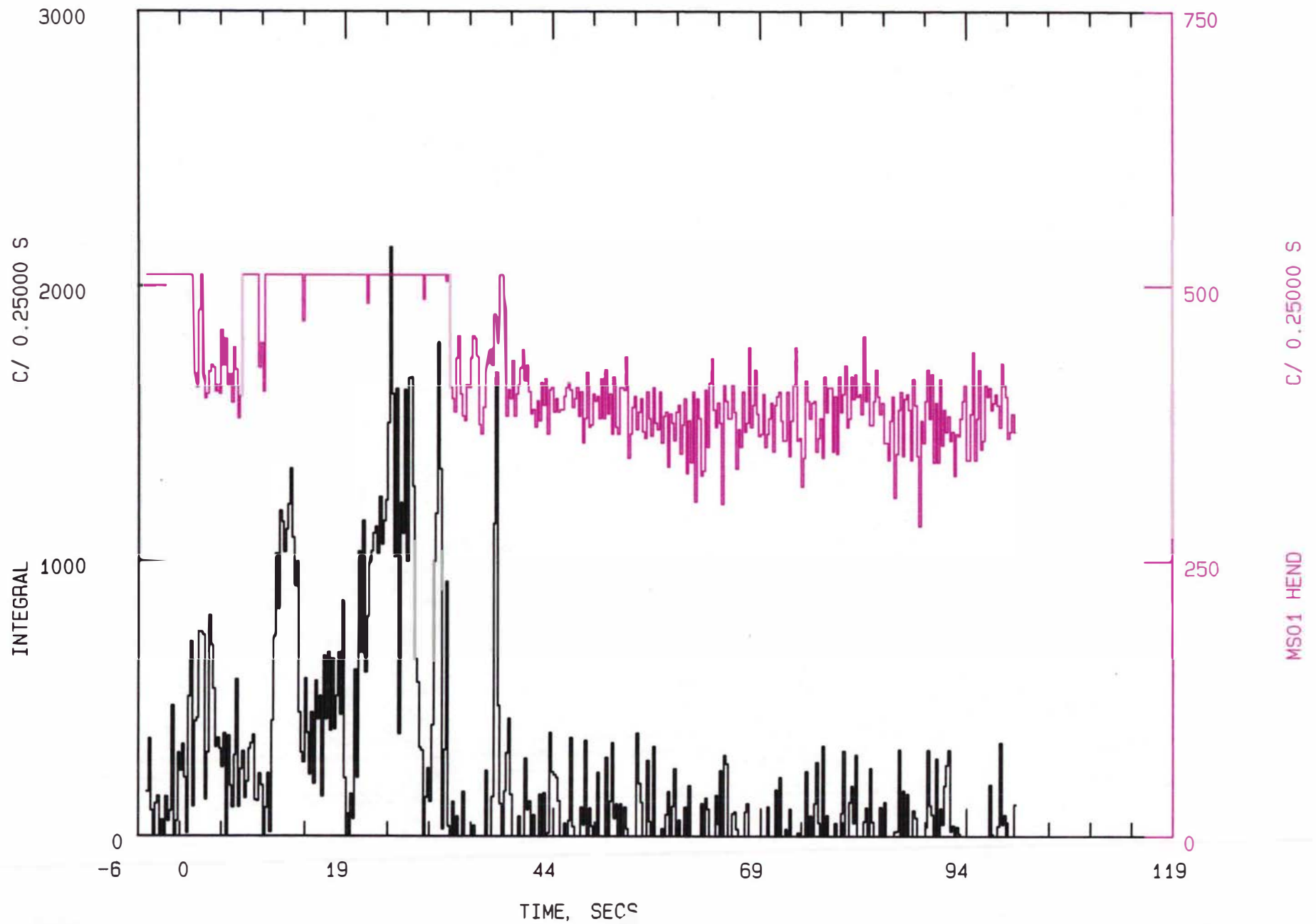
16/07/04

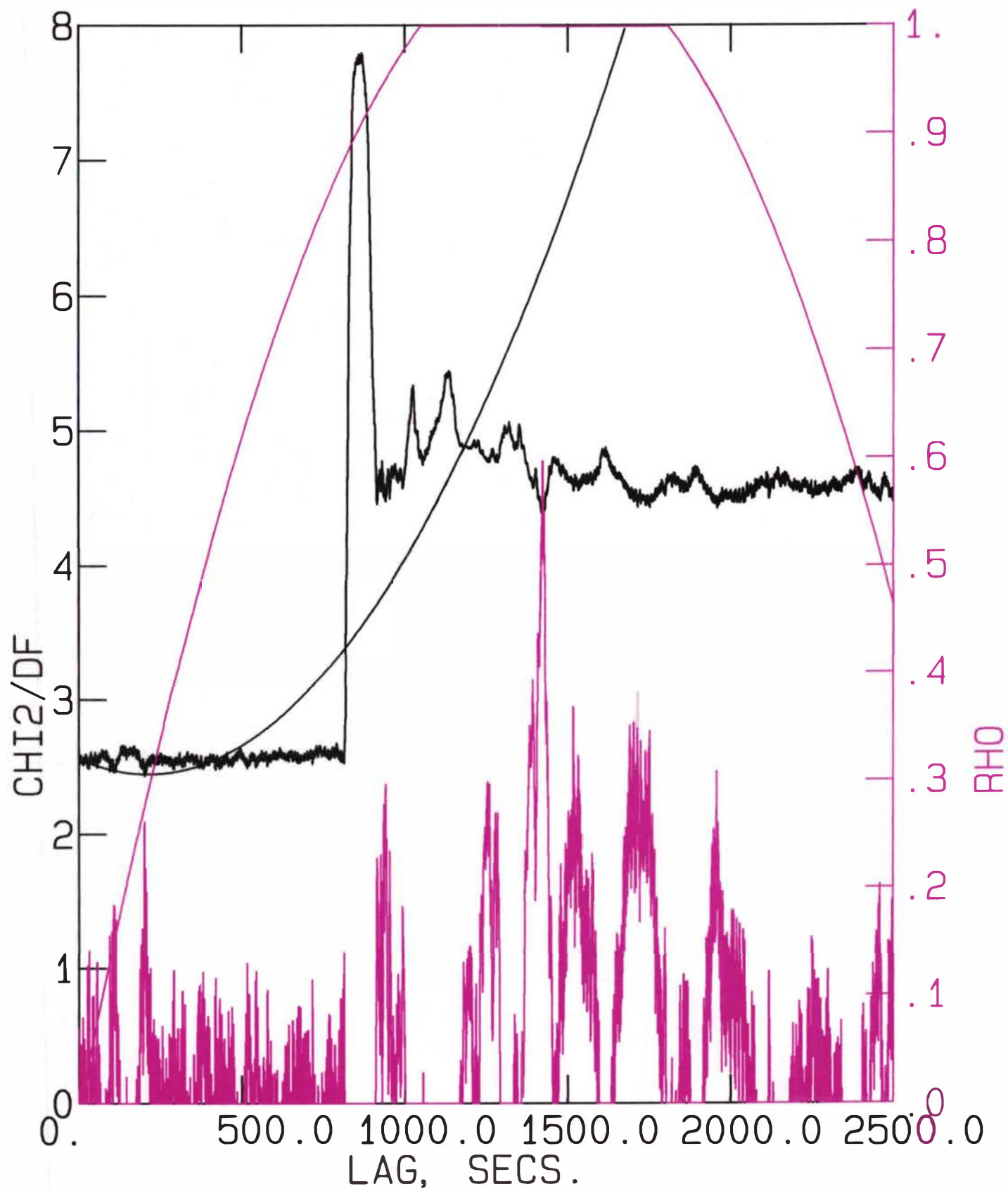
10945.389

6/ 8/ 4









INTEGRAL

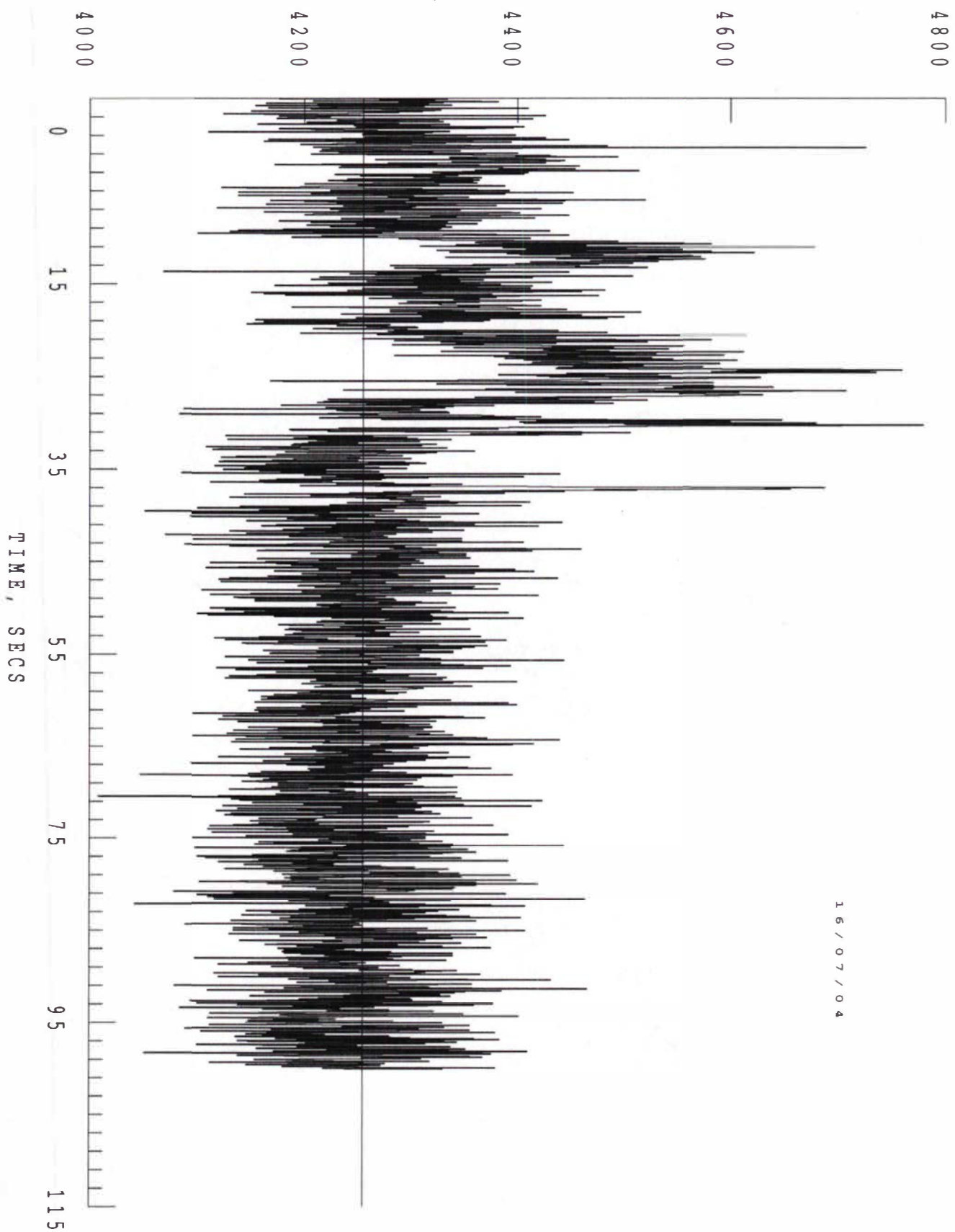
16/07/04

10945.389

100-10000 keV

03:02:25

COUNTS/0.050 S



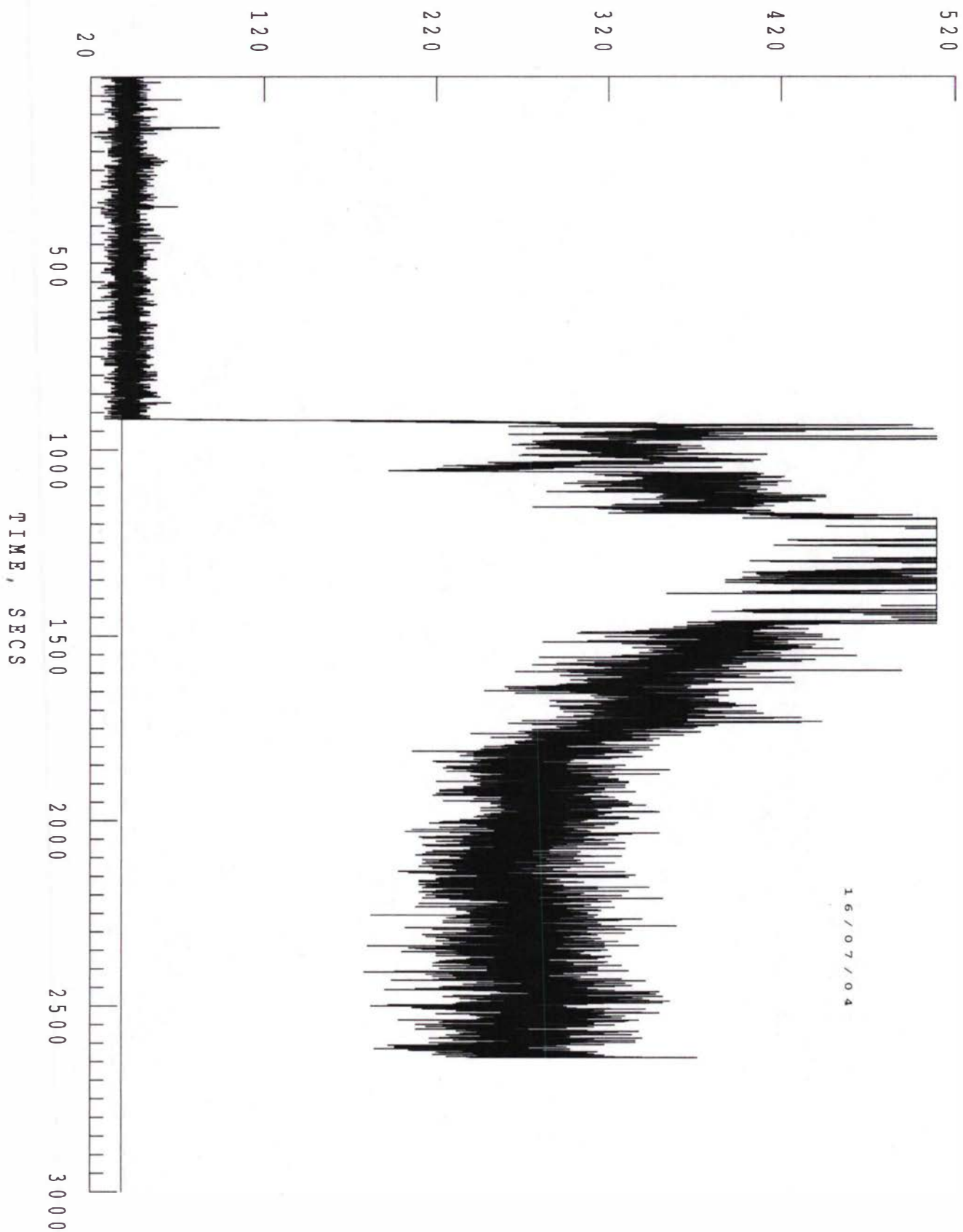
MS01

16/07/04

9582.963

50 - 3000 keV

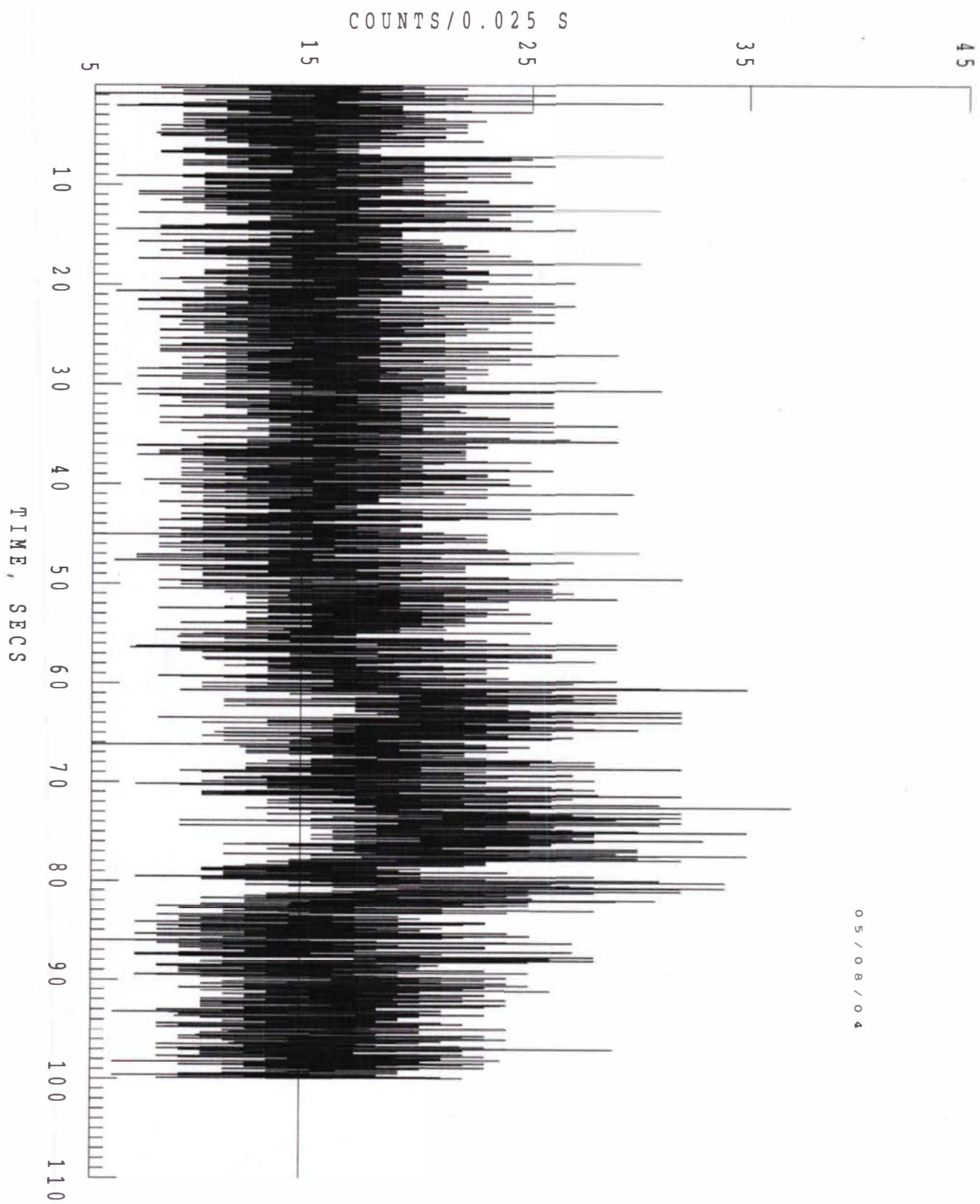
COUNTS/0.250 S



HESSI

16/07/04 10895.000 (integral_20040716_10945)

80- 500 keV



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (INTEGRAL_20040716_10945)

BEG TIME: 16/07/04 DOY 198 Julian 2453203.62417 UT = 02.980 02:58:48 (10728.000 secs) [sct = 0019 9cf3 6421 66af]
 END TIME: 16/07/04 DOY 198 Julian 2453203.62917 UT = 03.100 03:06:00 (11160.000 secs) [sct = 0019 9cf3 7de1 3421]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

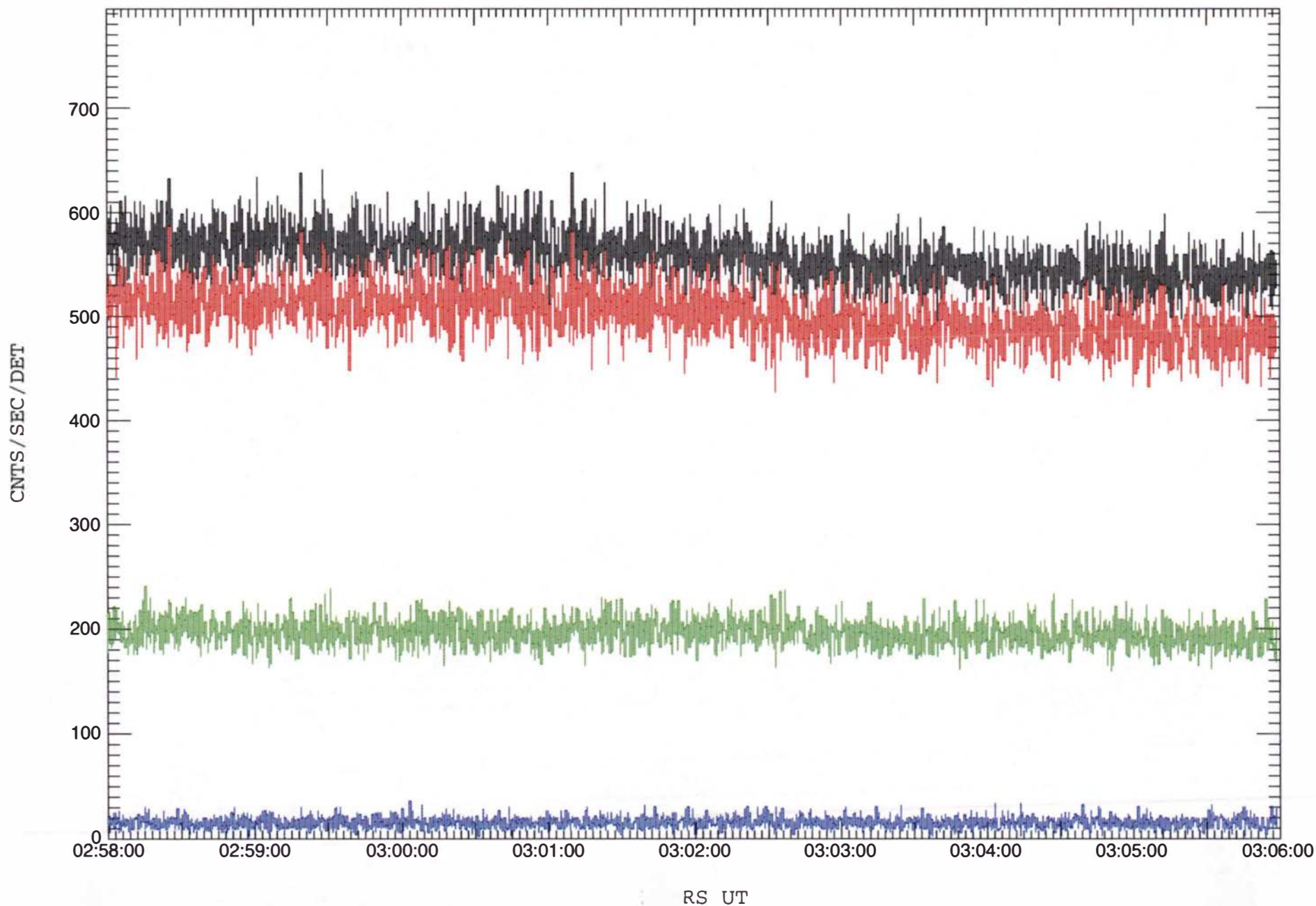
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0

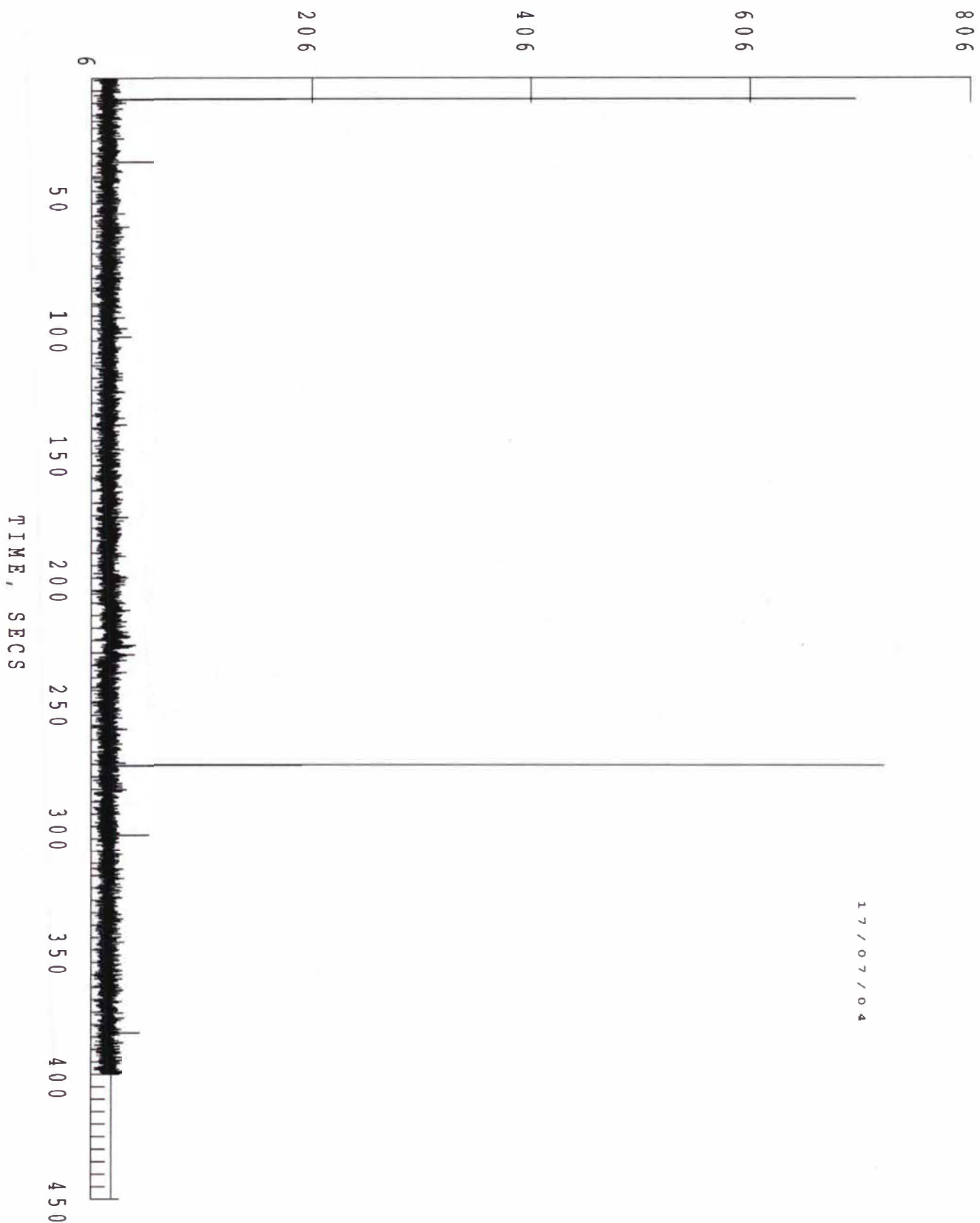


HESSI

16/07/04 10745.000 (INTEGRAL_20040716_10945)

25- 150 keV

COUNTS/0.031 S



KONUS2

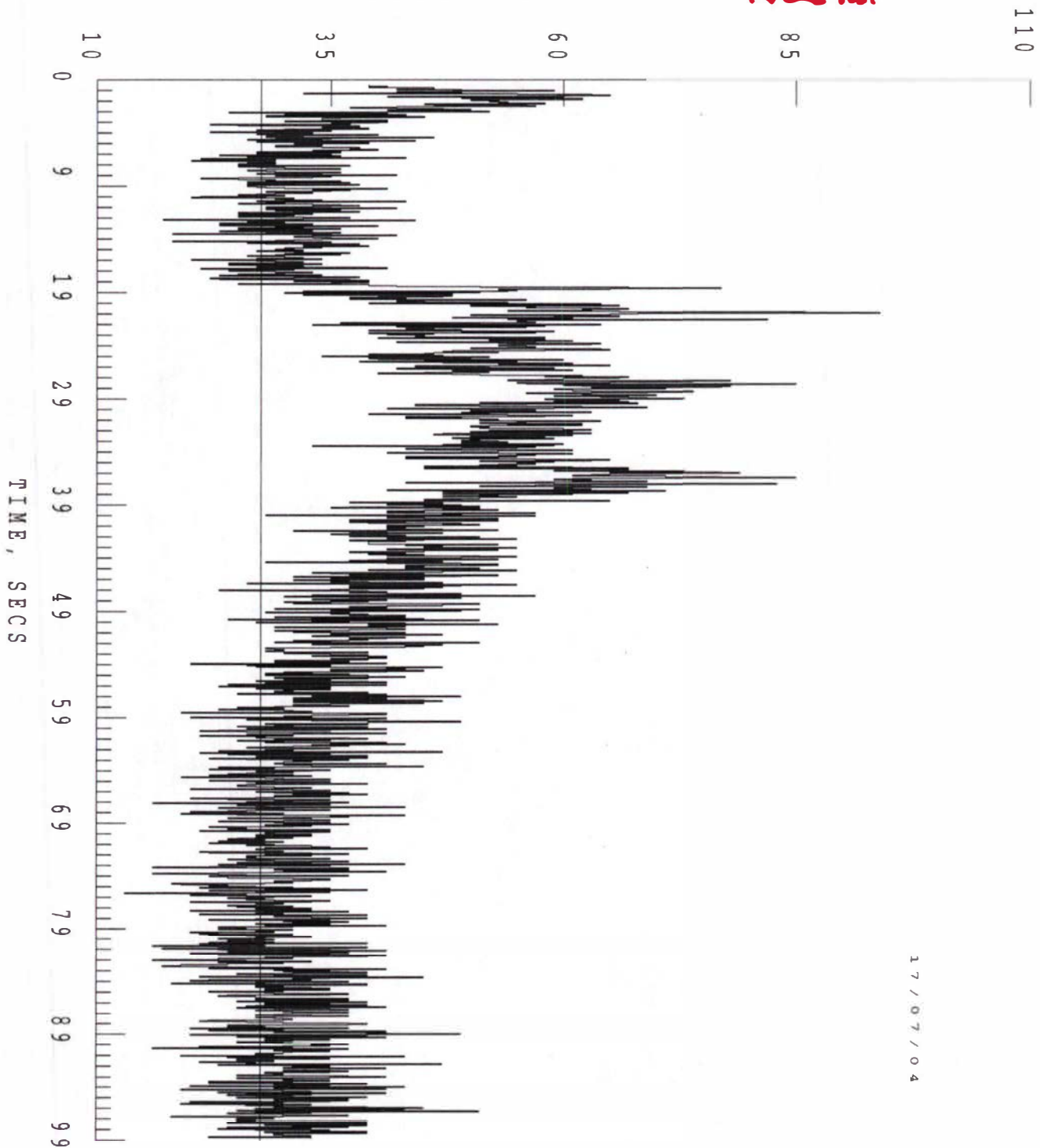
16/07/04

38306.393

50 - 200 keV

*Prob solar
Not in either
Konus list*

COUNTS/0.064 S



KONUS HRES 20040716 38306

TRIGGER TIME: 16/07/04 DOY 198 Julian 2453203.94336 UT = 10.641 10:38:26 (38306.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

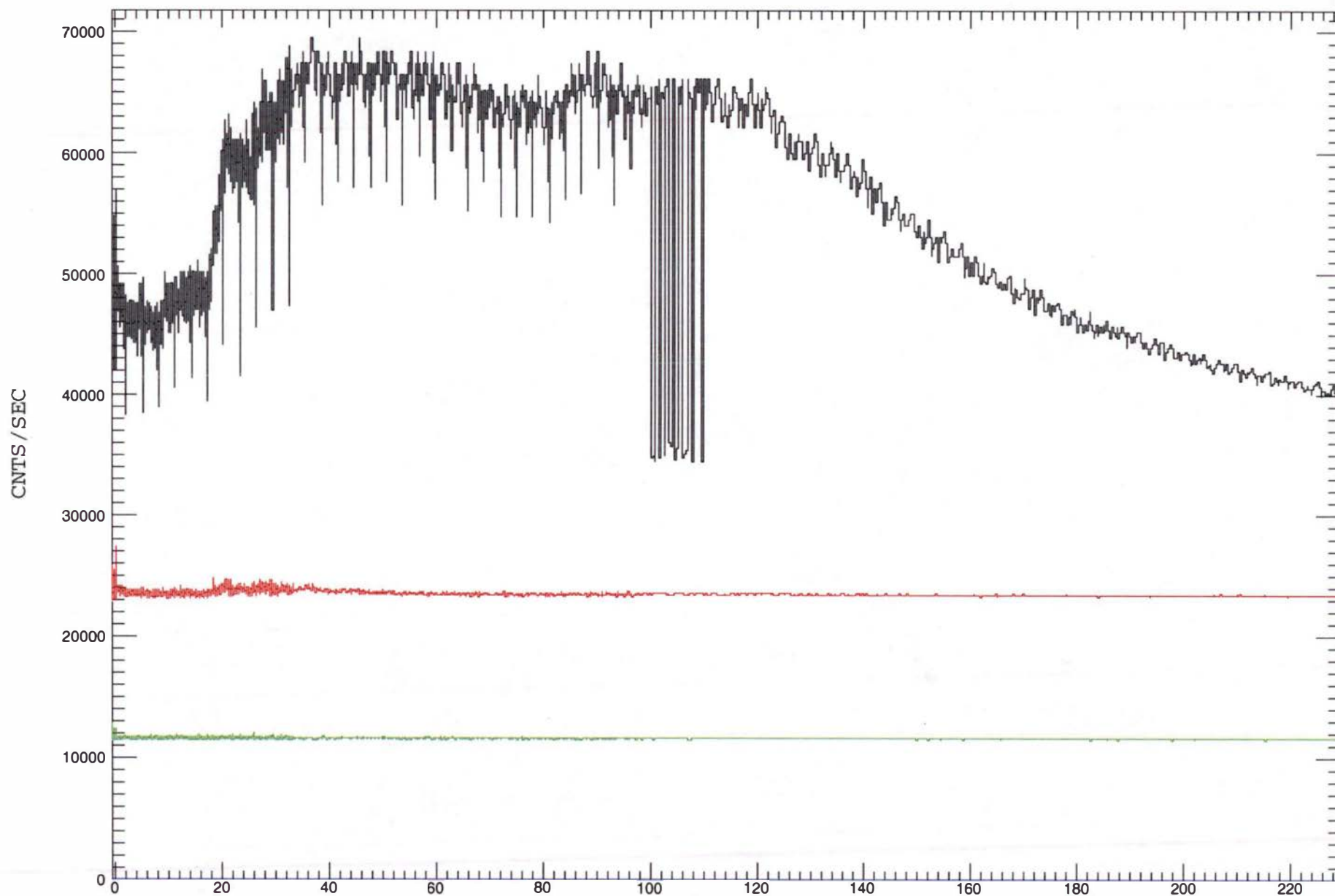
Chan 4 : [> 10 MeV]

Channel 1 + 34500

Channel 2 + 23000

Channel 3 + 11500

Channel 4 + 0



SECONDS

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20040716_38306)

BEG TIME: 16/07/04 DOY 198 Julian 2453203.94125 UT = 10.590 10:35:24 (38124.000 secs) [sct = 0019 9cf9 c50f 8b1c]
 END TIME: 16/07/04 DOY 198 Julian 2453203.94583 UT = 10.700 10:42:00 (38520.000 secs) [sct = 0019 9cf9 dcaa 076d]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

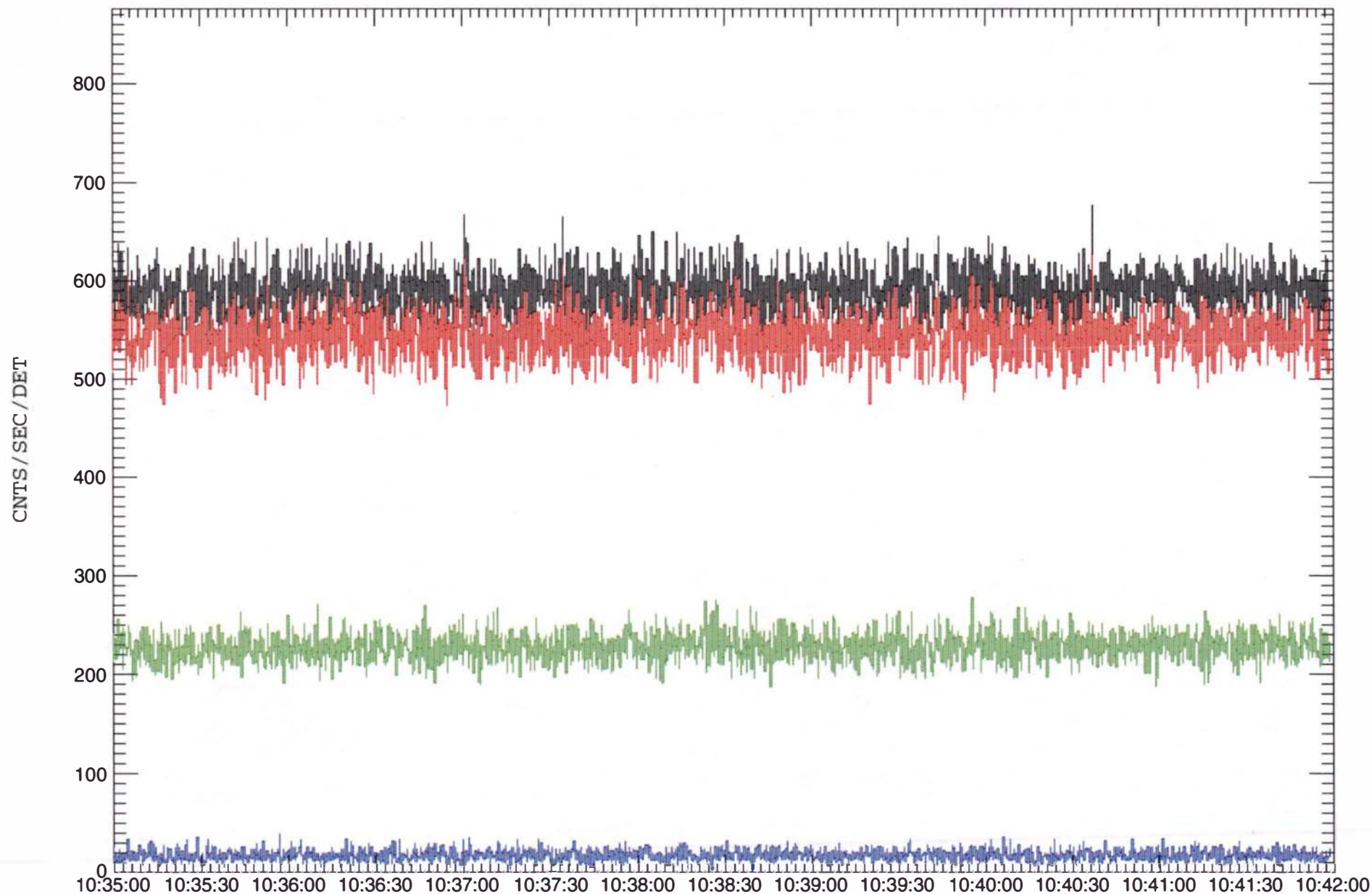
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



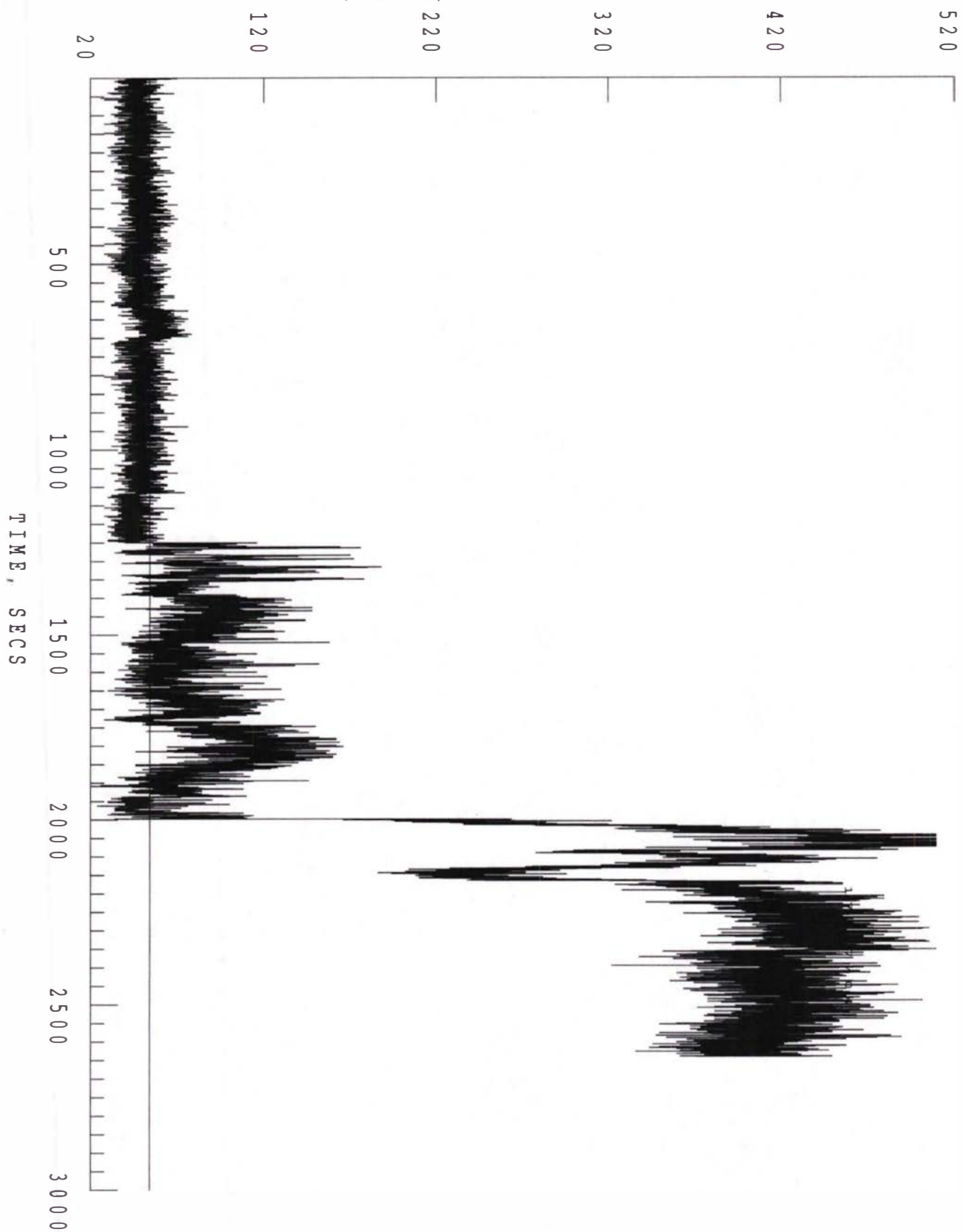
MS01

16/07/04

36942.470

50 - 3000 keV

COUNTS/0.250 S



From williams@sunspot.ssl.berkeley.edu Wed Jul 21 12:29:26 2004
Date: Wed, 21 Jul 2004 12:32:28 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20040716_38306

HESSI 25 to 150 keV Counts
Created 21-Jul-2004 12:29:14.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0312500
No SAA
Full time range in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

KONUS2

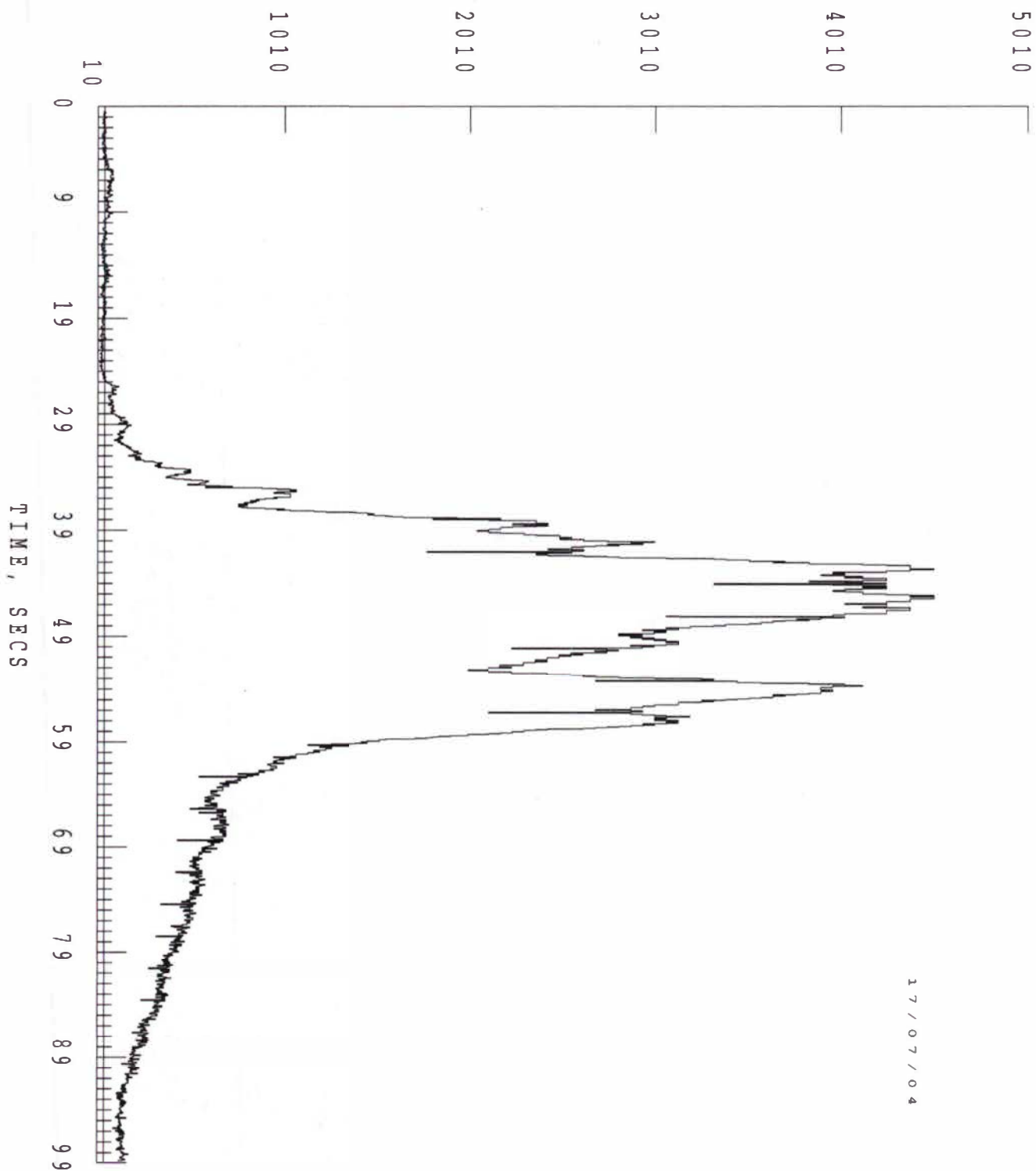
16/07/04

49975.853

50 - 200 keV

COUNTS/0.064 S

Prob. solar
Not in either
Konus list



KONUS HRES 20040716 49975

TRIGGER TIME: 16/07/04 DOY 198 Julian 2453204.07841 UT = 13.882 13:52:55 (49975.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

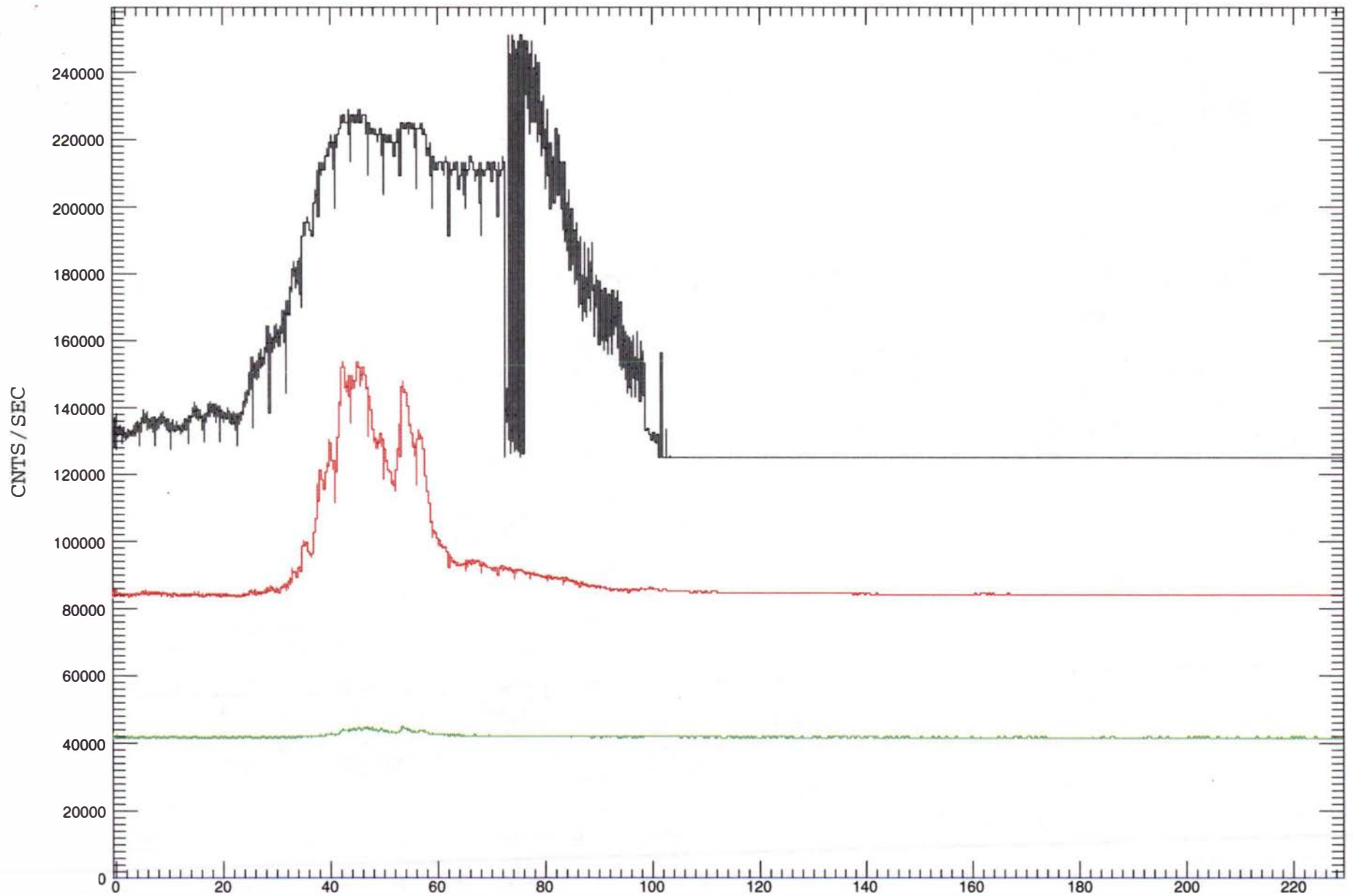
Chan 4 : [> 10 MeV]

Channel 1 + 125100

Channel 2 + 83400

Channel 3 + 41700

Channel 4 + 0



ONDS

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20040716_49975)

BEG TIME: 16/07/04 DOY 198 Julian 2453204.07625 UT = 13.830 13:49:48 (49788.000 secs) [sct = 0019 9cfc 7c4a 3609]
 END TIME: 16/07/04 DOY 198 Julian 2453204.08083 UT = 13.940 13:56:24 (50184.000 secs) [sct = 0019 9cfc 93e4 b25b]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

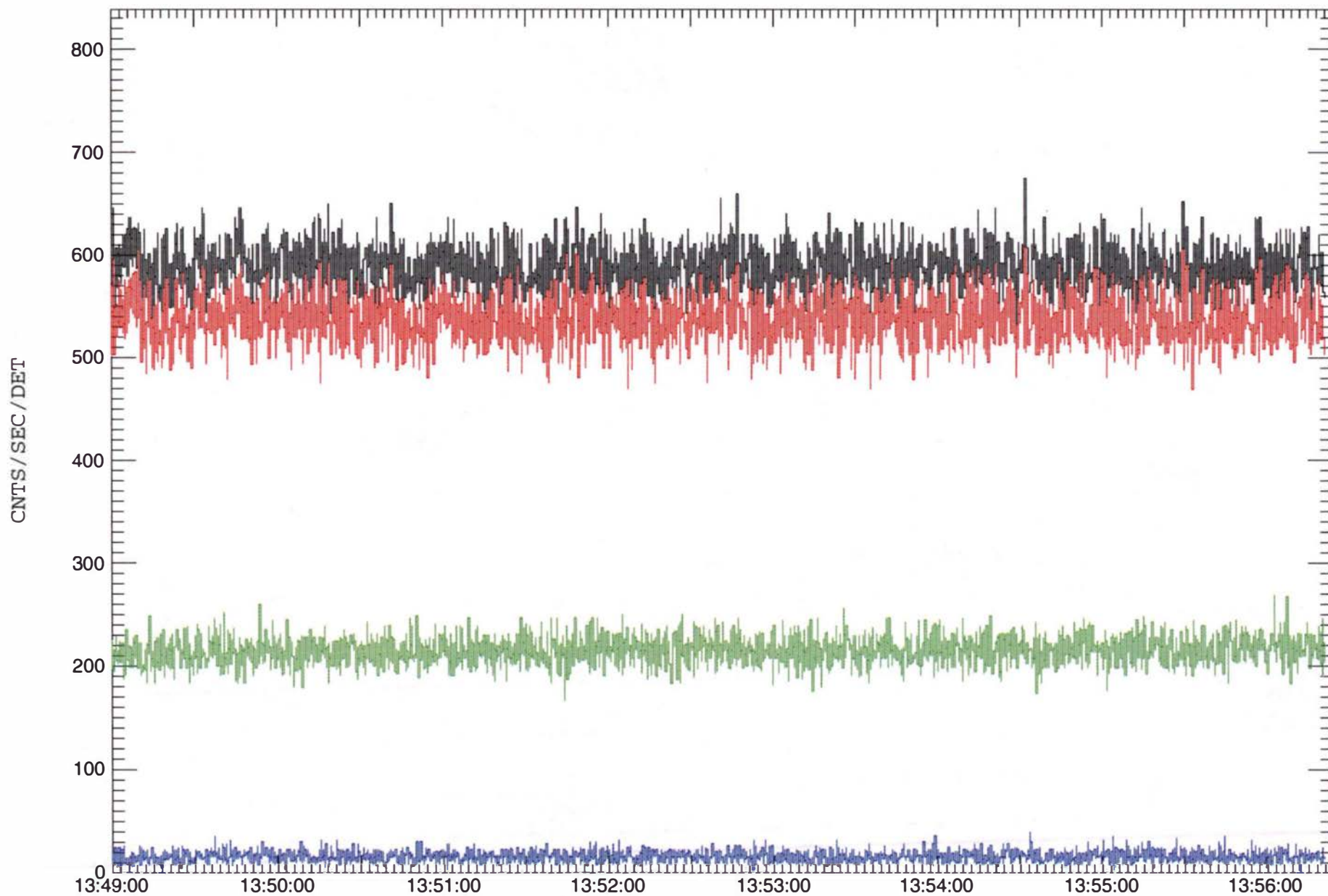
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

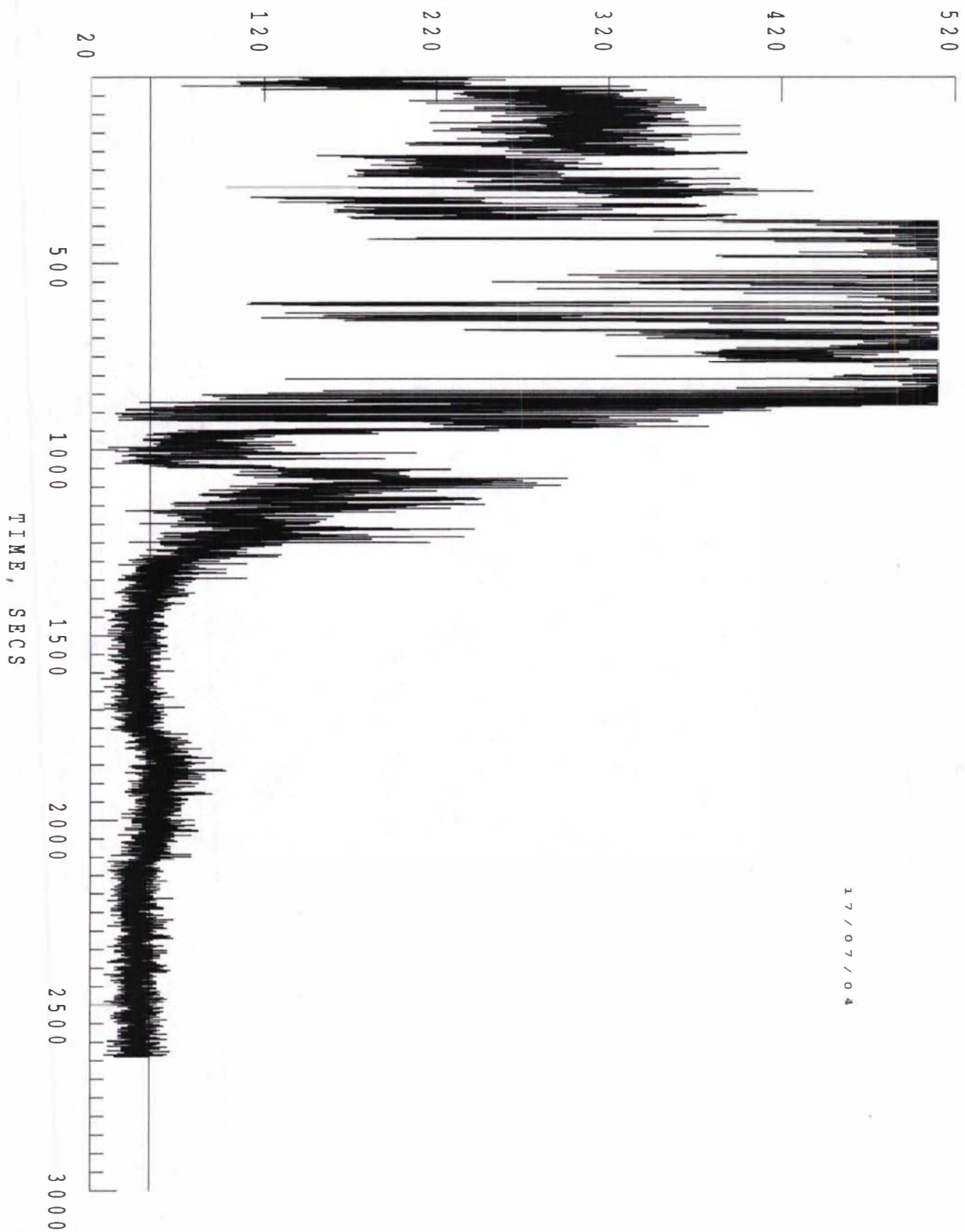
MS01

16/07/04

48642.247

50 - 3000 keV

COUNTS/0.250 S

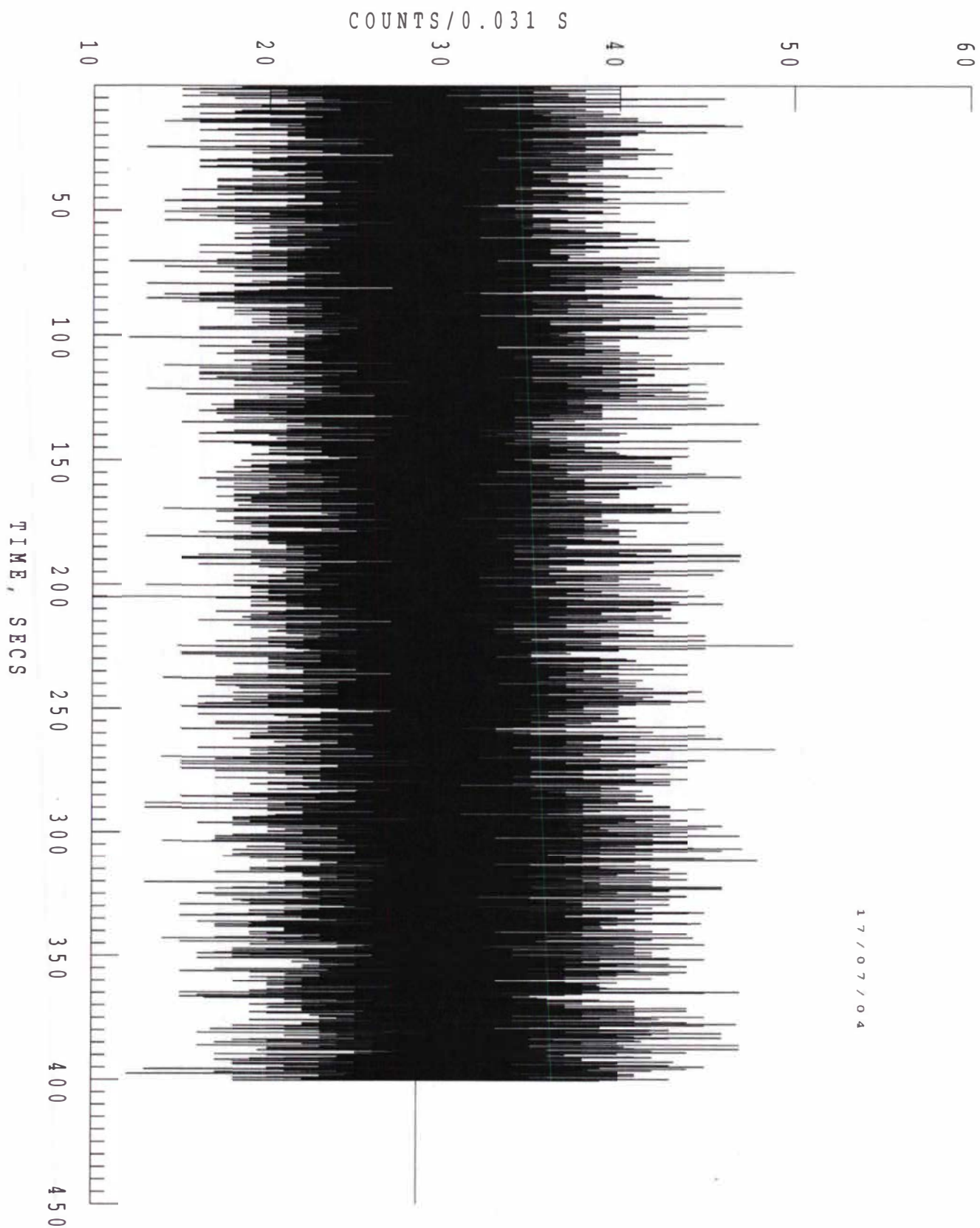


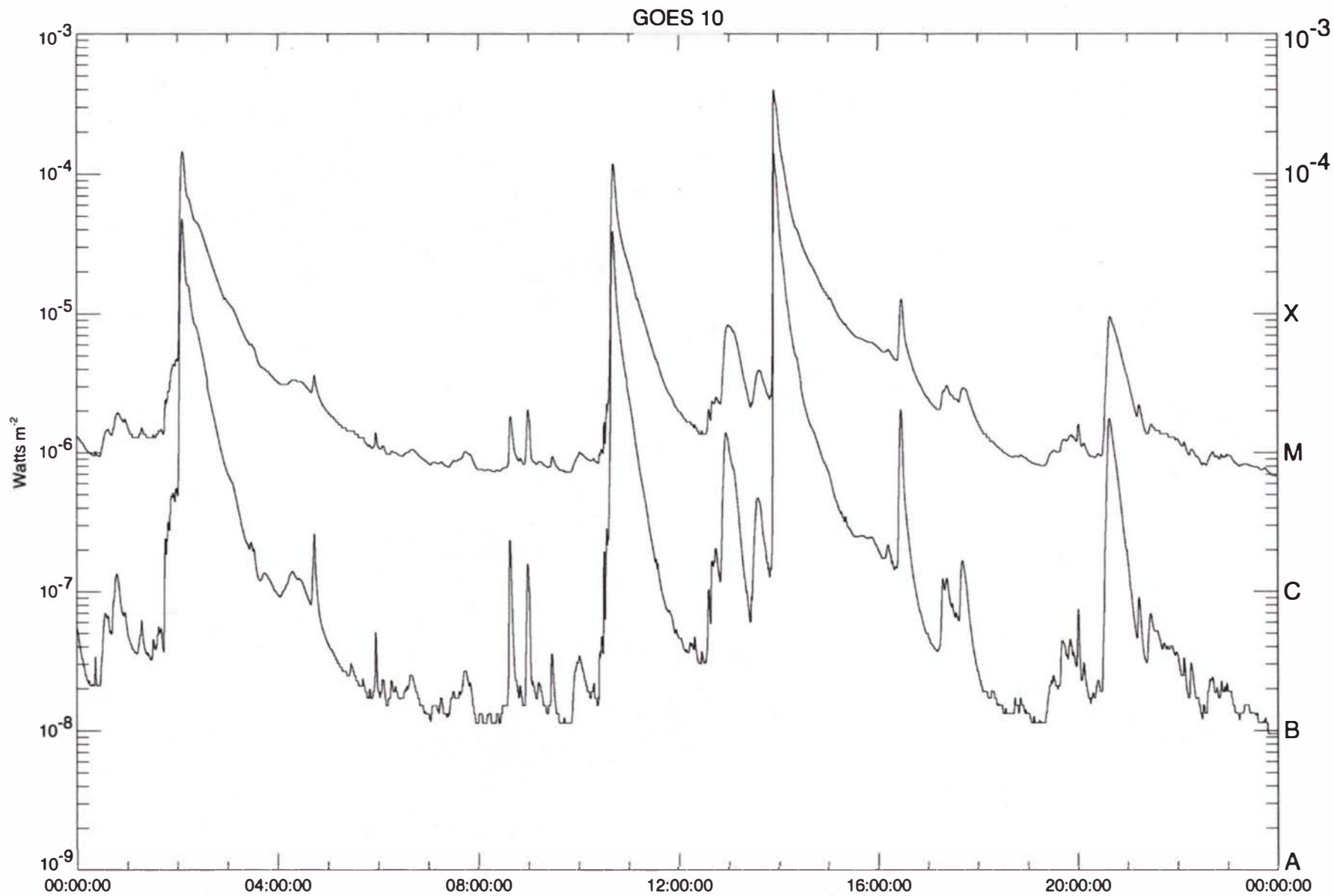
17/07/04

HESSI

16/07/04 49775.000 (KONUS2_20040716_49975)

25- 150 keV





Data Start: 04/07/16, 0000:00

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Plot created: 04/07/17, 0828

Sample average = 10

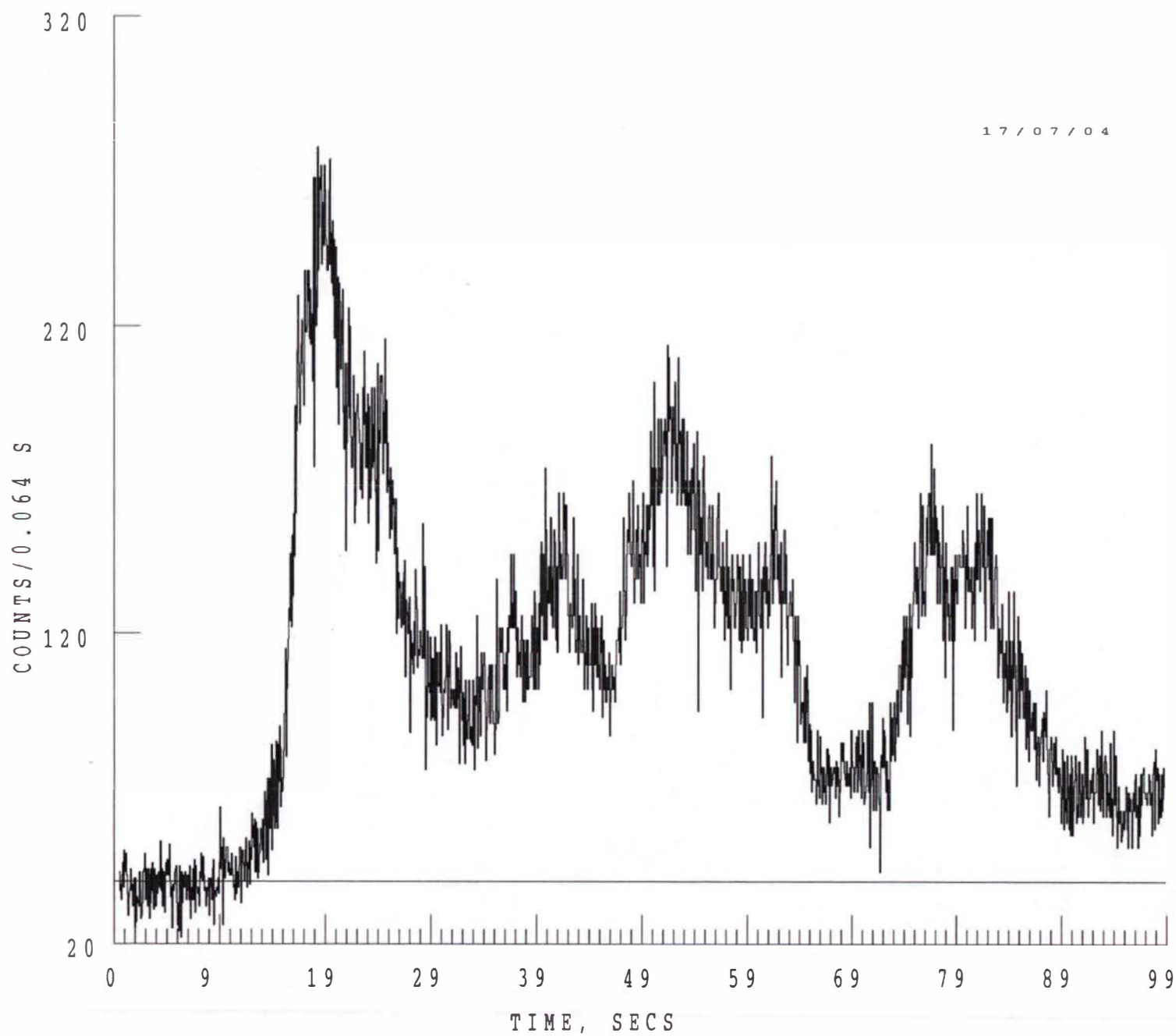
KONUS2

17/07/04

28508.884

50- 200 keV

*Pub. solar
Not in either
Konus list*



KONUS HRES 20040717 28508

TRIGGER TIME: 17/07/04 DOY 199 Julian 2453204.82995 UT = 07.919 07:55:08 (28508.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

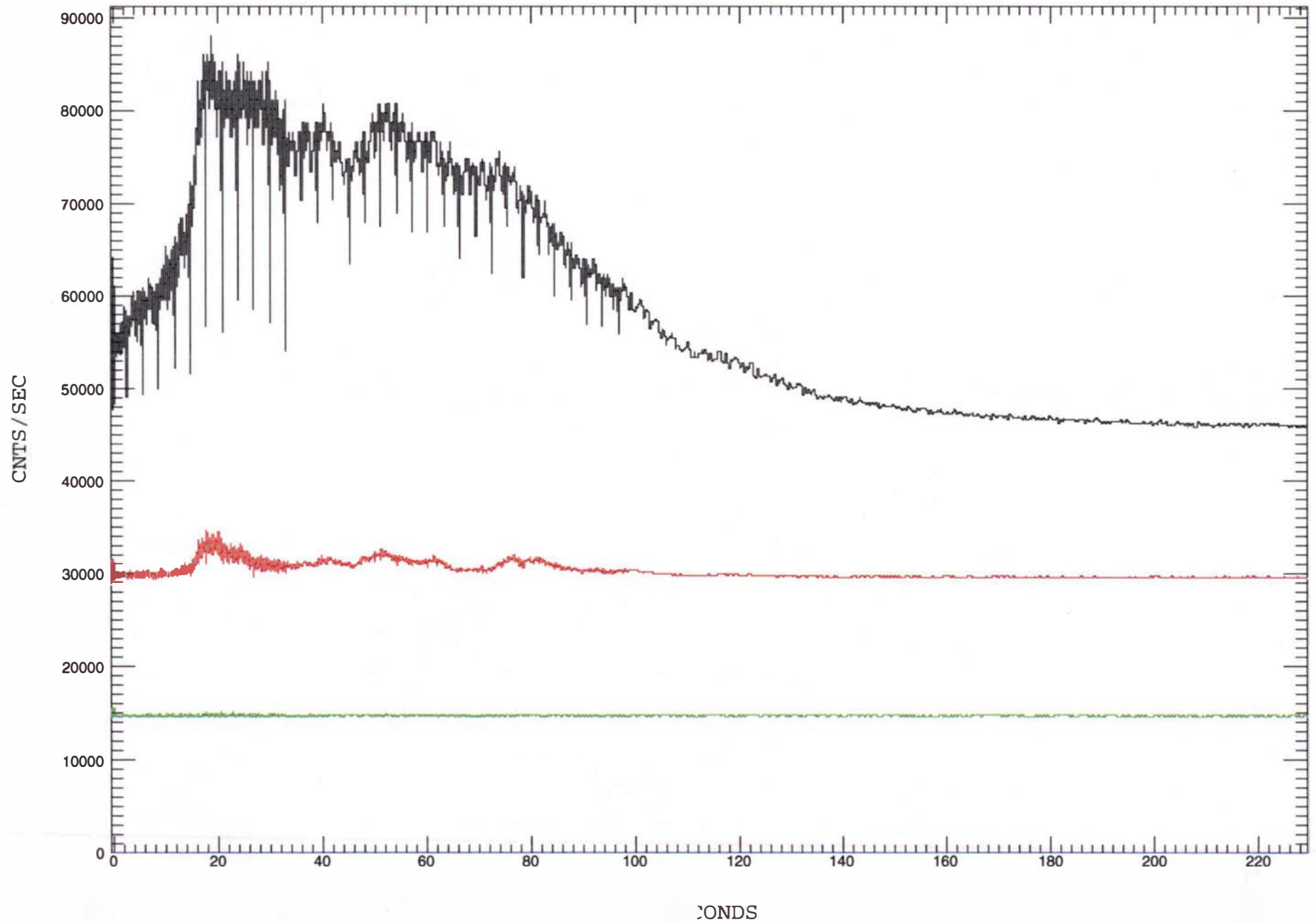
Chan 4 : [> 10 MeV]

Channel 1 + 43800

Channel 2 + 29200

Channel 3 + 14600

Channel 4 + 0



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTOR 4 (KONUS2_20040717_28508)

BEG TIME: 17/07/04 DOY 199 Julian 2453204.82750 UT = 07.860 07:51:36 (28296.000 secs) [sct = 0019 9d0b 991c 89a3]
 END TIME: 17/07/04 DOY 199 Julian 2453204.83208 UT = 07.970 07:58:12 (28692.000 secs) [sct = 0019 9d0b b0b7 05f6]

Chan 1:[E1=17 E2=103]

Chan 2:[E3=17 E4=77]

Chan 3:[E5=19 E6=504]

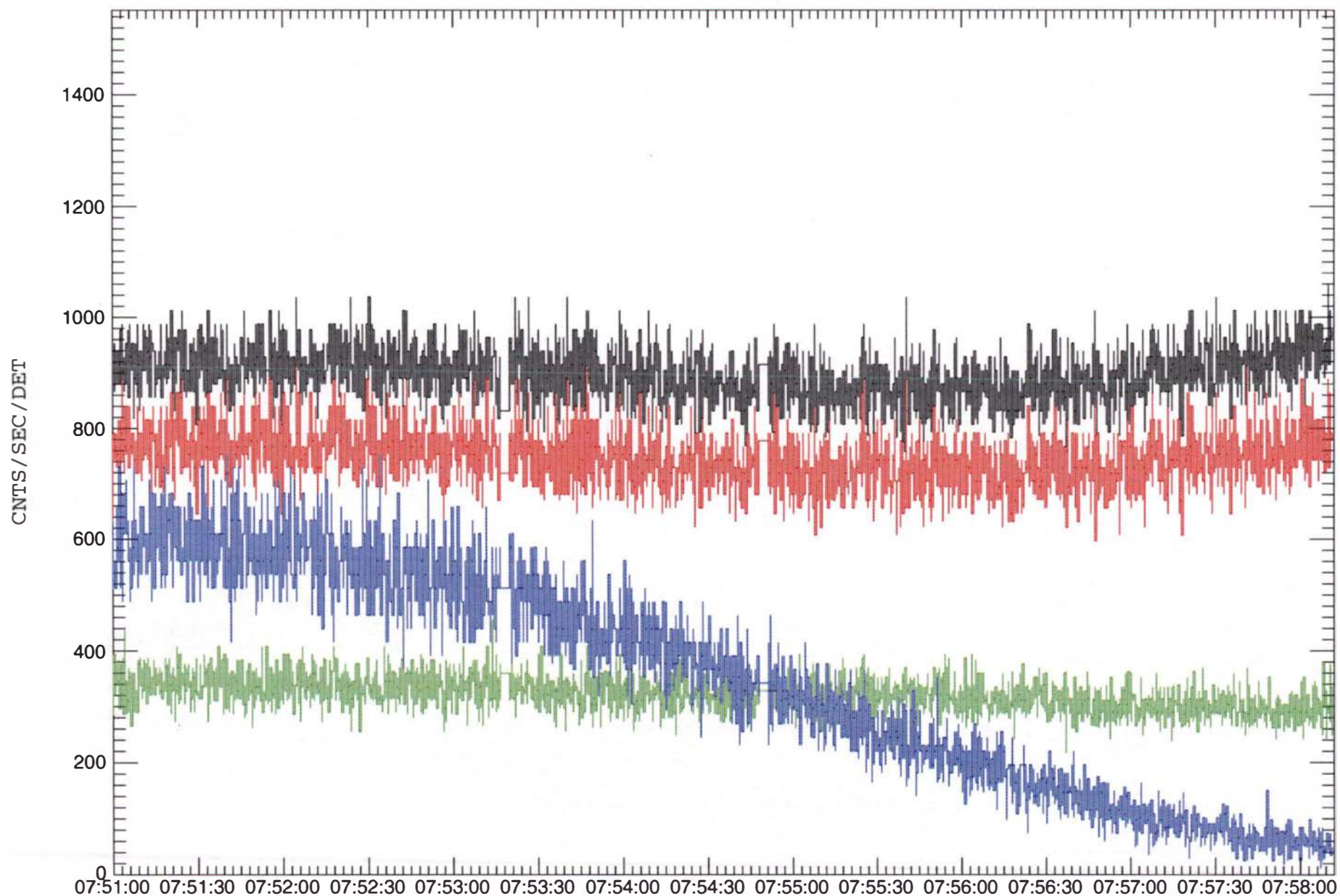
Chan 4:[E6=504 ->]

Channel 1 + 600

Channel 2 + 400

Channel 3 + 200

Channel 4 + 0



RS UT

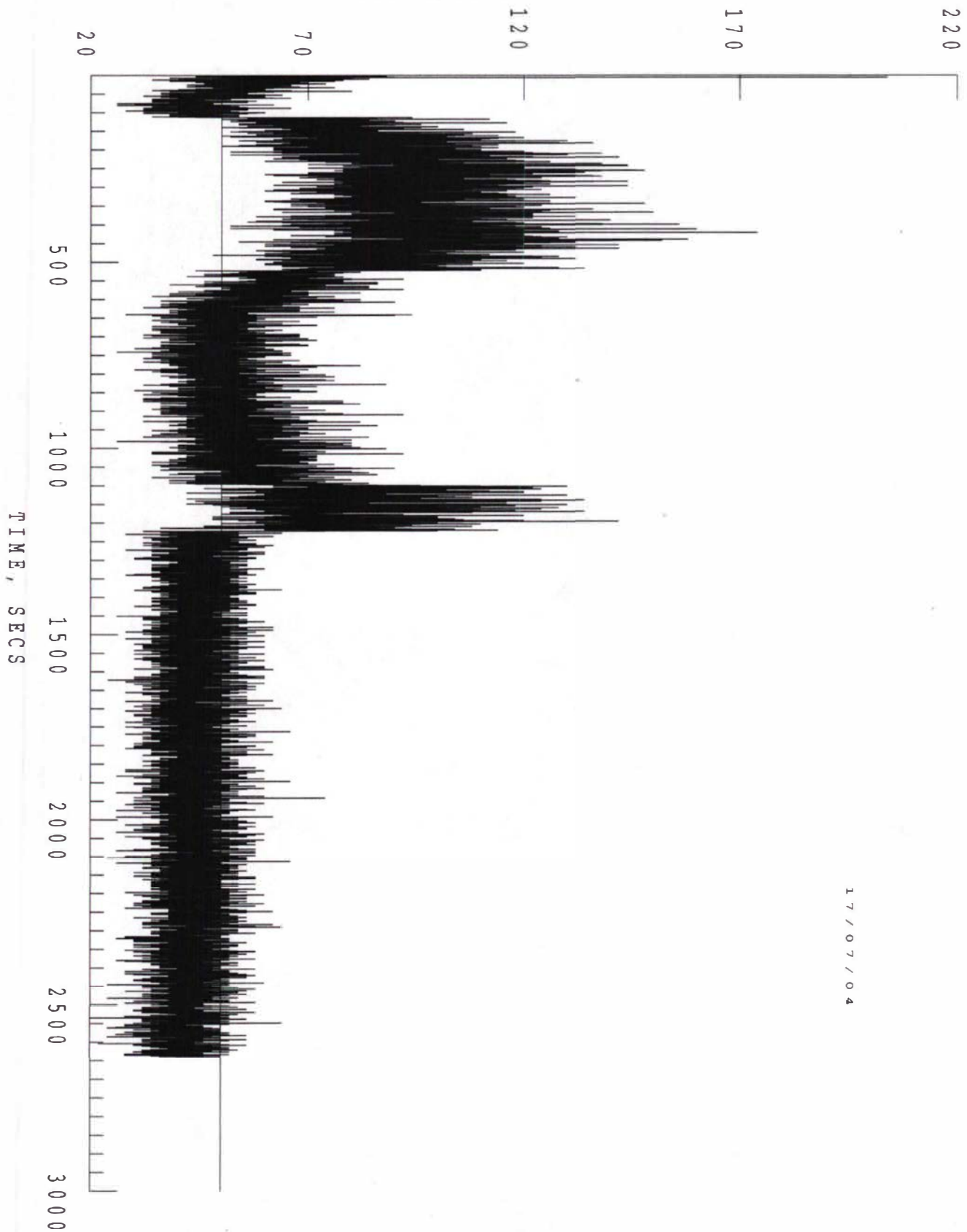
MS01

17/07/04

27161.540

50 - 3000 keV

COUNTS/0.250 S



From williams@sunspot.ssl.berkeley.edu Sat Jul 17 12:35:44 2004
Date: Sat, 17 Jul 2004 12:38:41 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20040717_28508

HESSI 25 to 150 keV Counts
Created 17-Jul-2004 12:35:23.00
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

Date: Jul 21 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? *NO EL given*

5. For Odyssey events

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

6. For 3 or More Spacecraft events

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

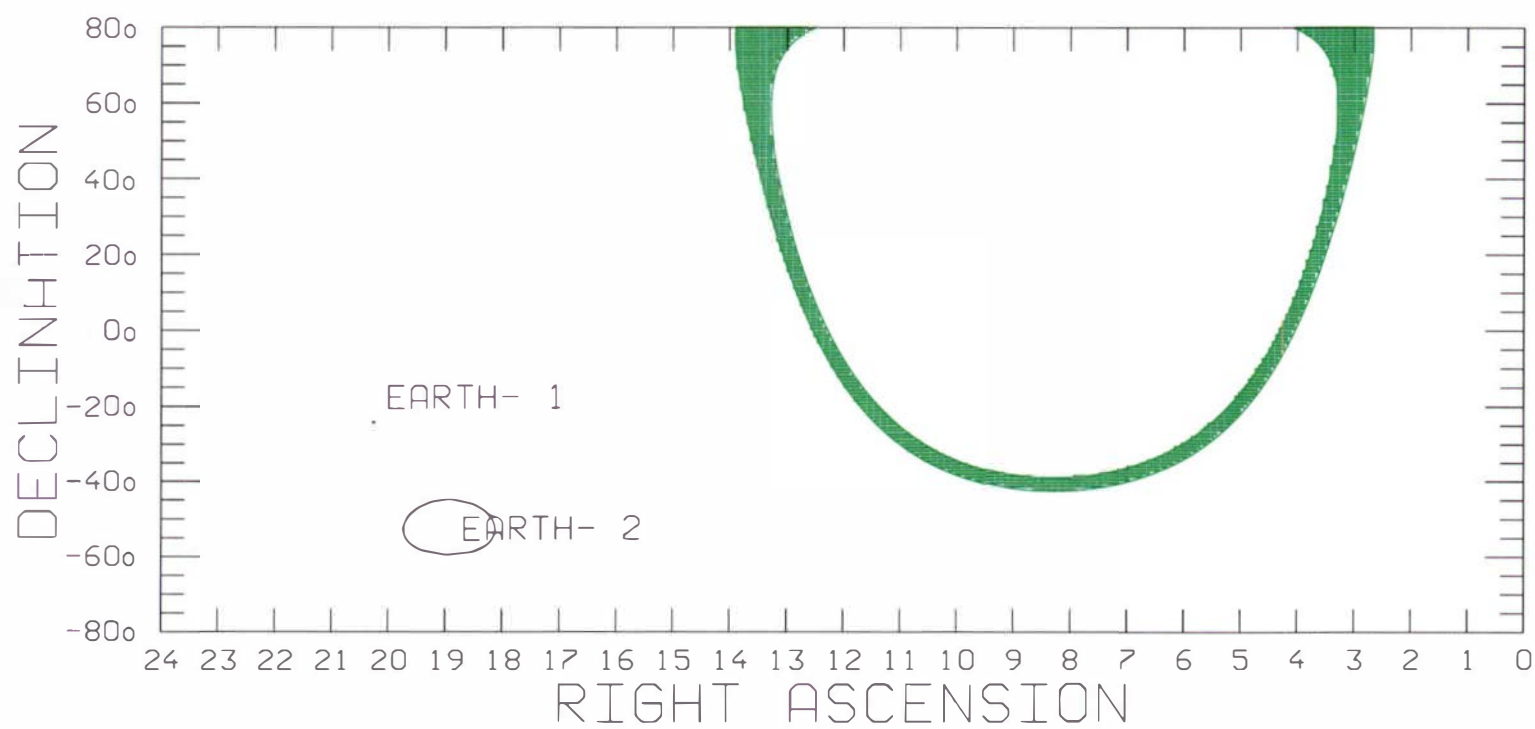
7. For INTEGRAL events

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

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

GRB040717 ~57191 S

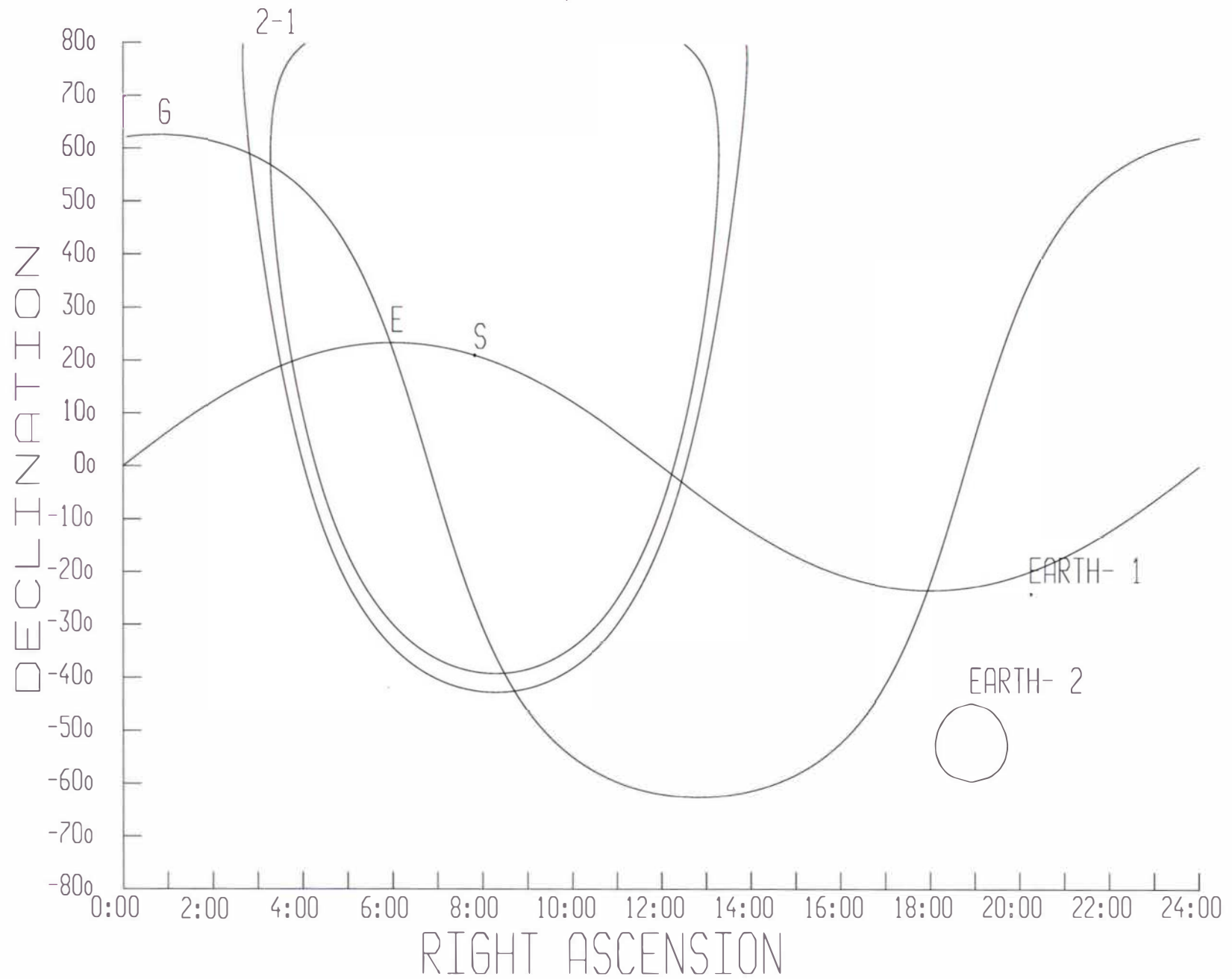
21/07/2017

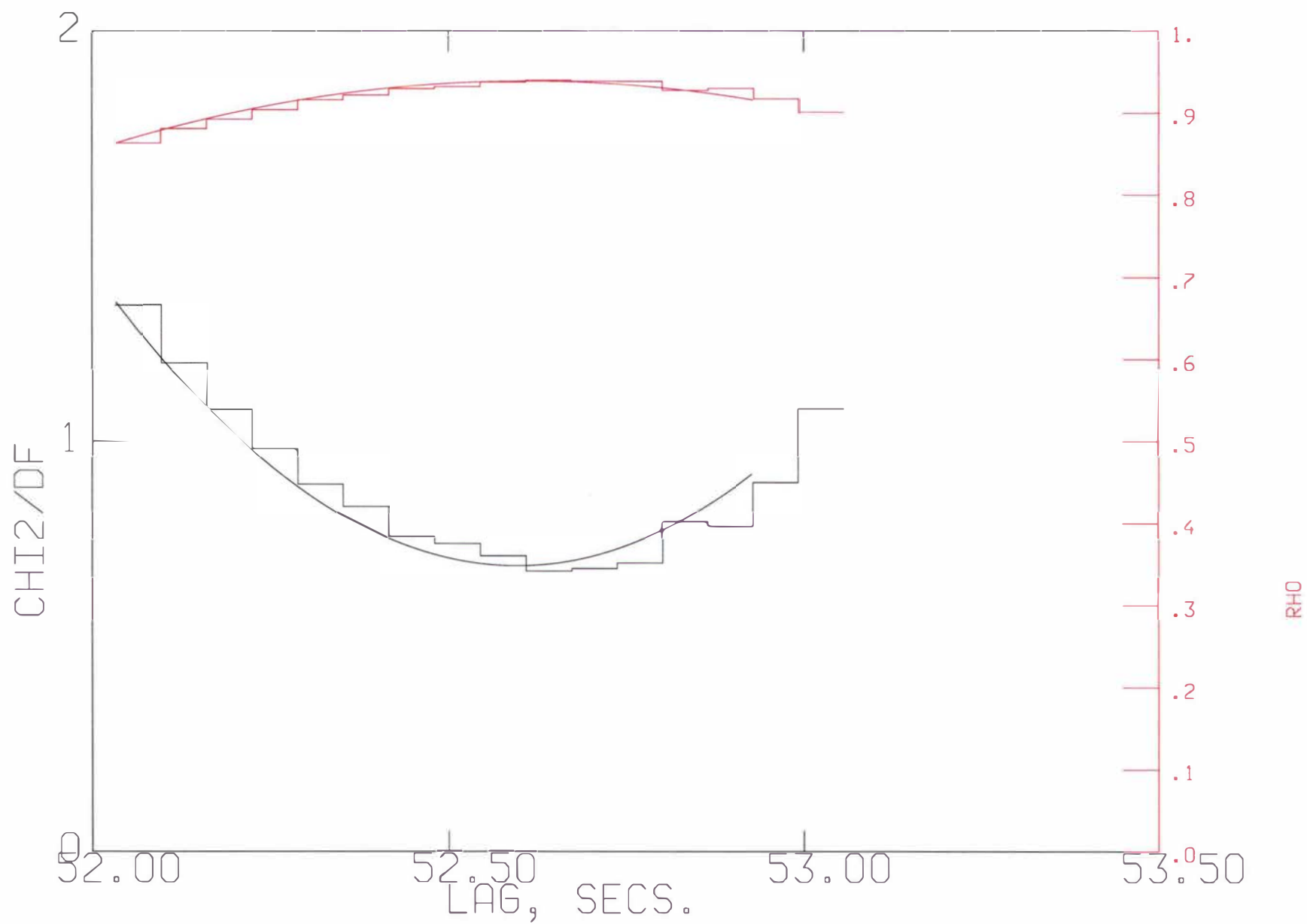


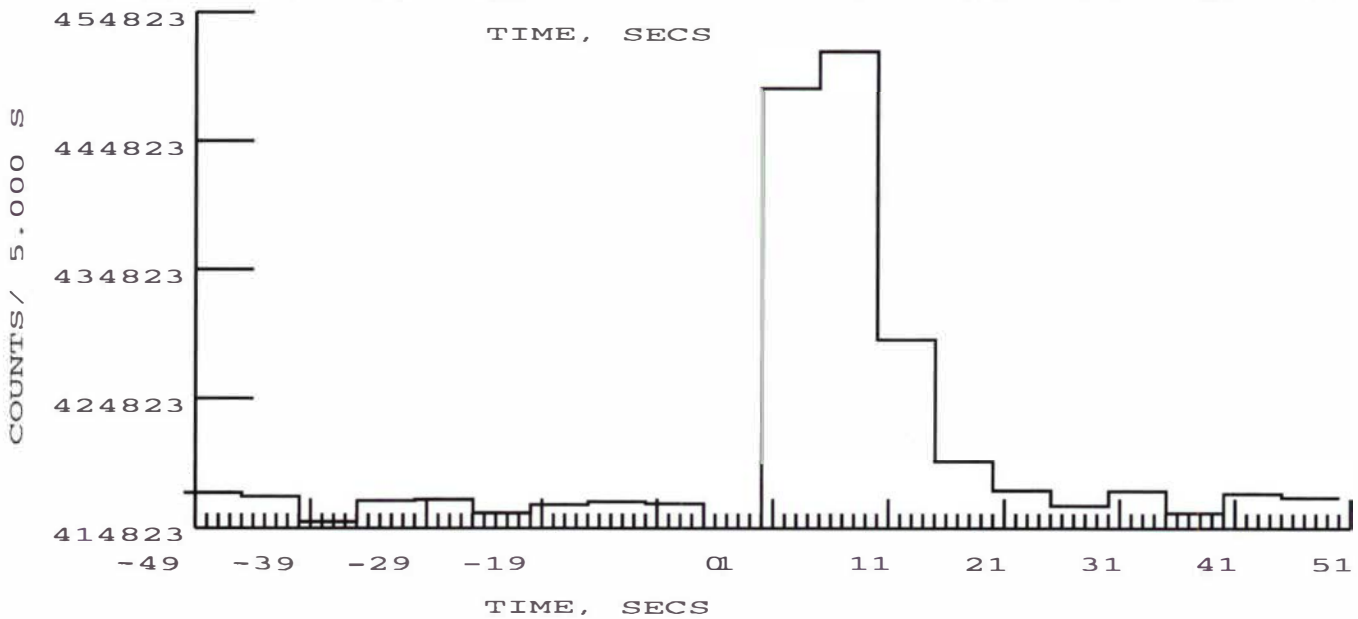
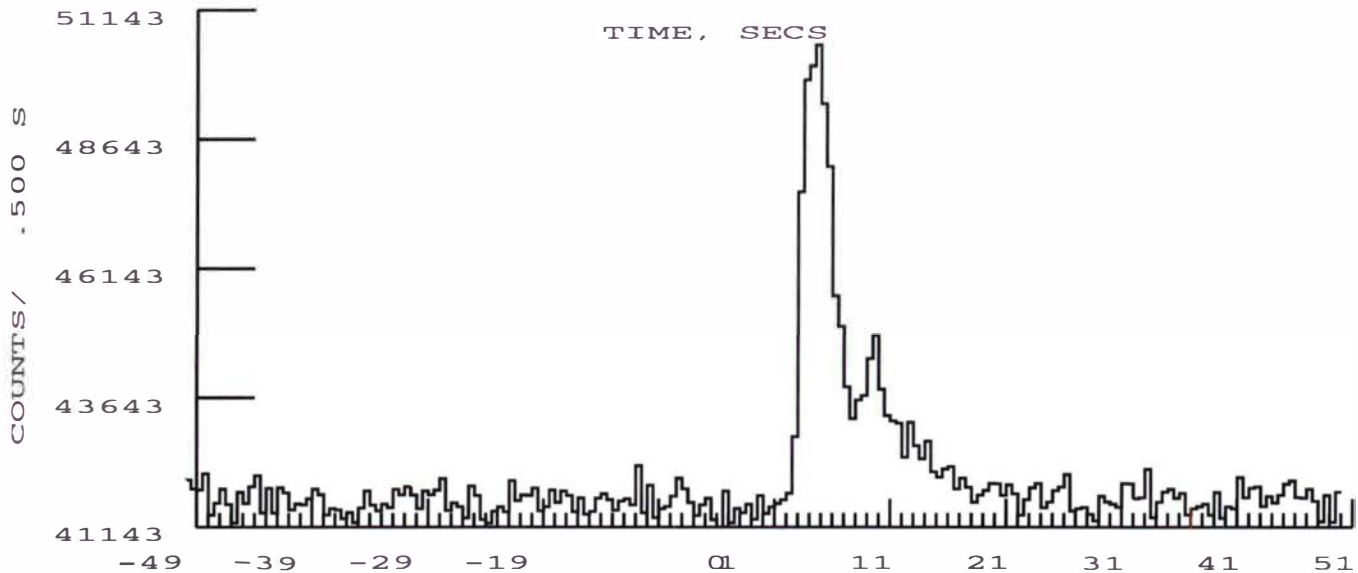
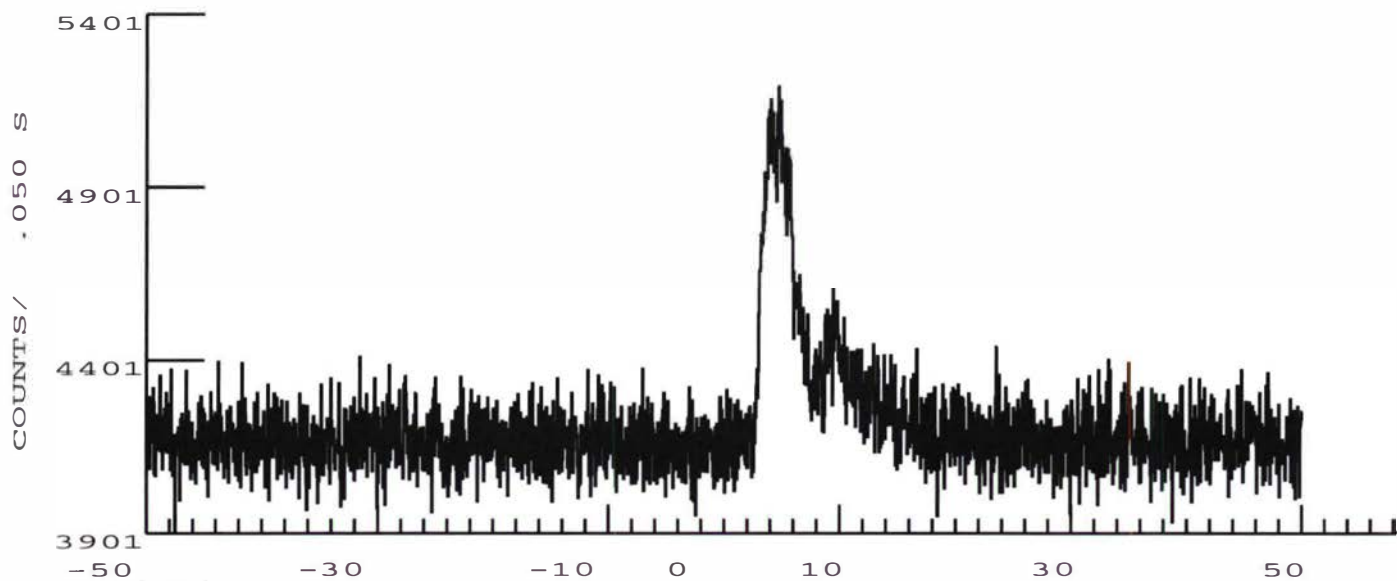
EVENT OF JUL 17, 2004 15:53

21/07/2017

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







KONUS2

17/07/04

57188.794

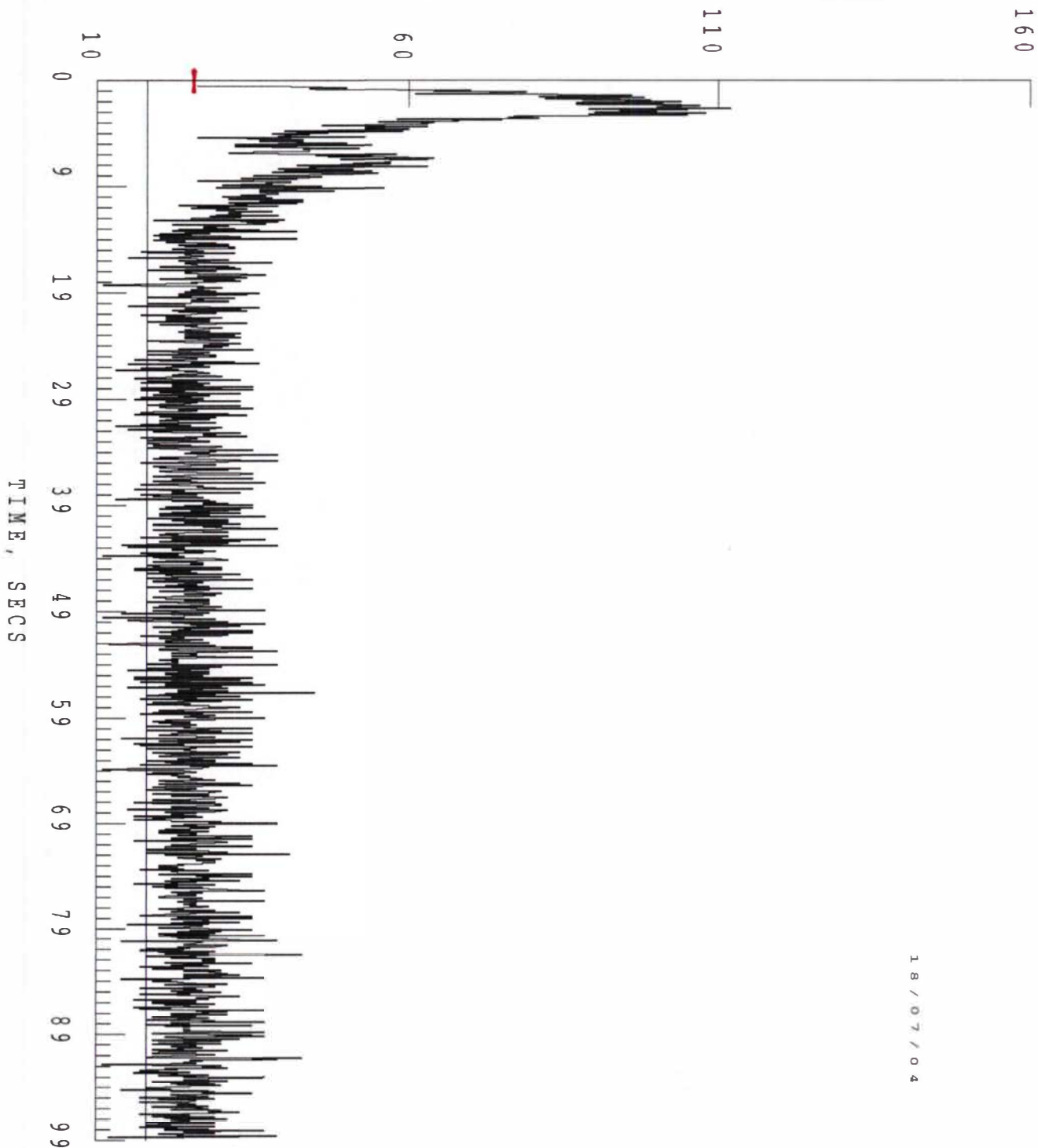
50- 200 keV

15:53:08

SOLAR? Not in Konus list

NO - COSMIC

COUNTS/0.064 S



KONUS HRES 20040717 57188

TRIGGER TIME: 17/07/04 DOY 199 Julian 2453205.16190 UT = 15.886 15:53:08 (57188.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

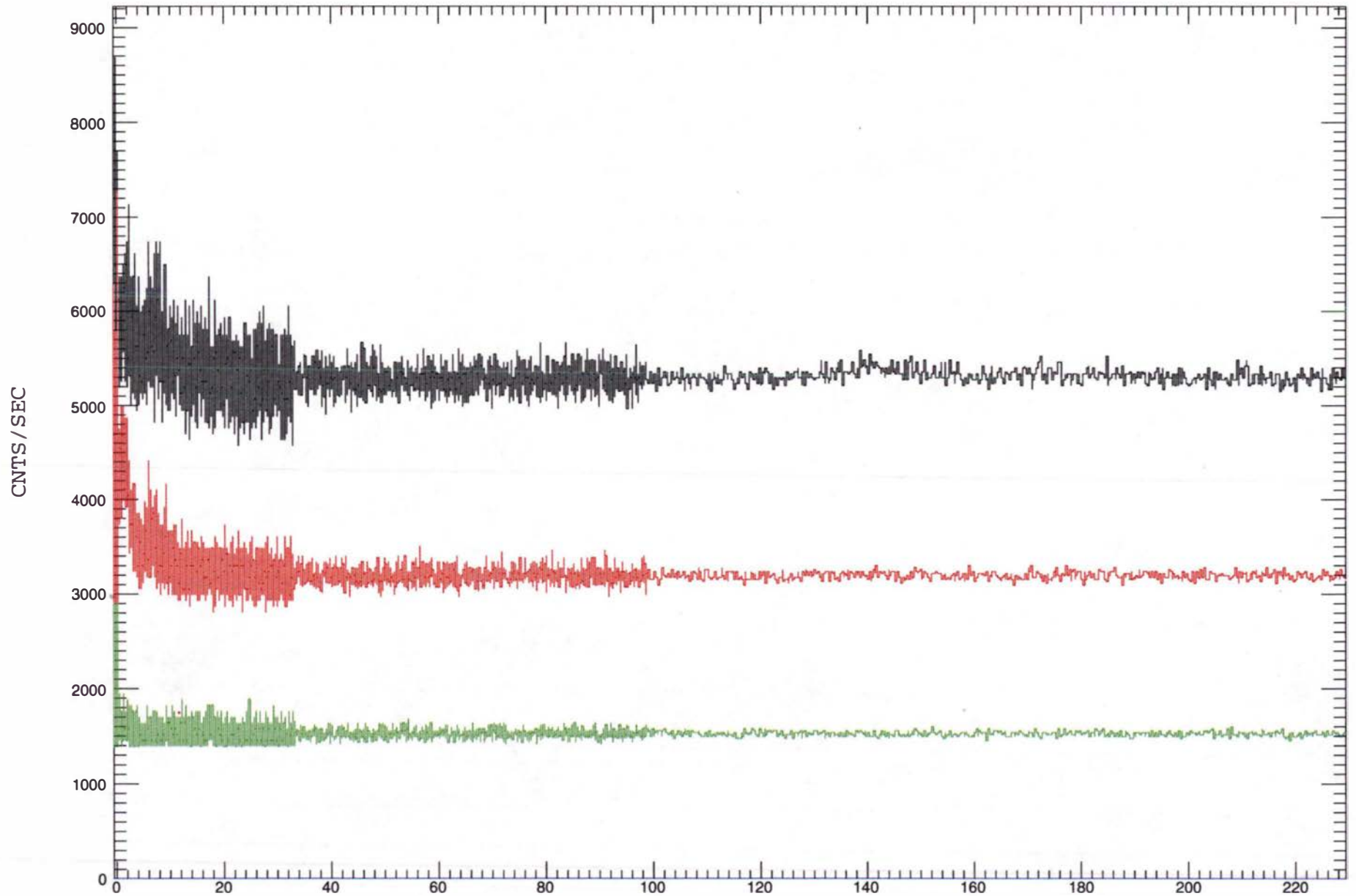
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



SECONDS

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20040717_57188)

BEG TIME: 17/07/04 DOY 199 Julian 2453205.15958 UT = 15.830 15:49:48 (56988.000 secs) [sct = 0019 9d12 474a 1663]
 END TIME: 17/07/04 DOY 199 Julian 2453205.16417 UT = 15.940 15:56:24 (57384.000 secs) [sct = 0019 9d12 5ee4 92b5]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

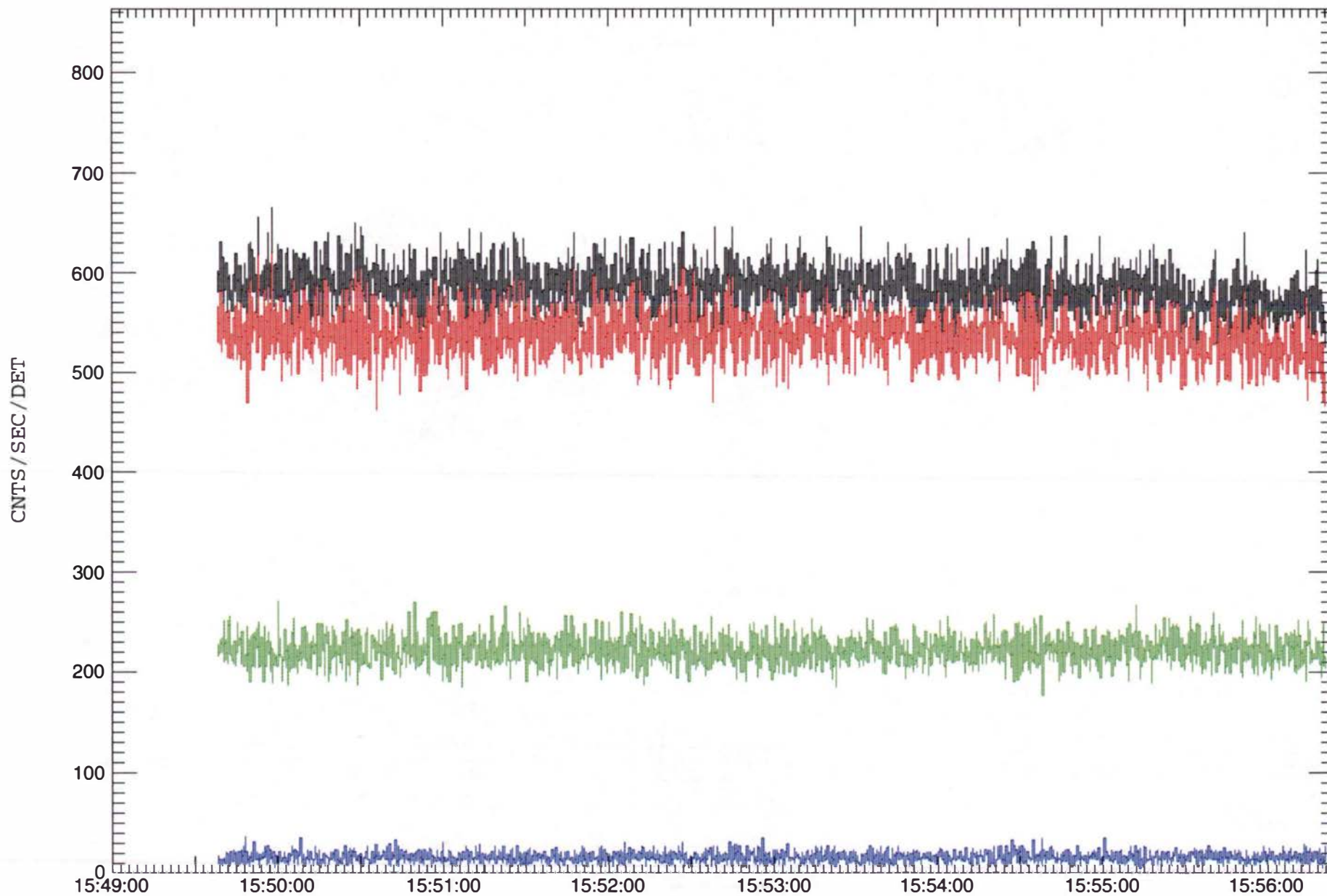
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

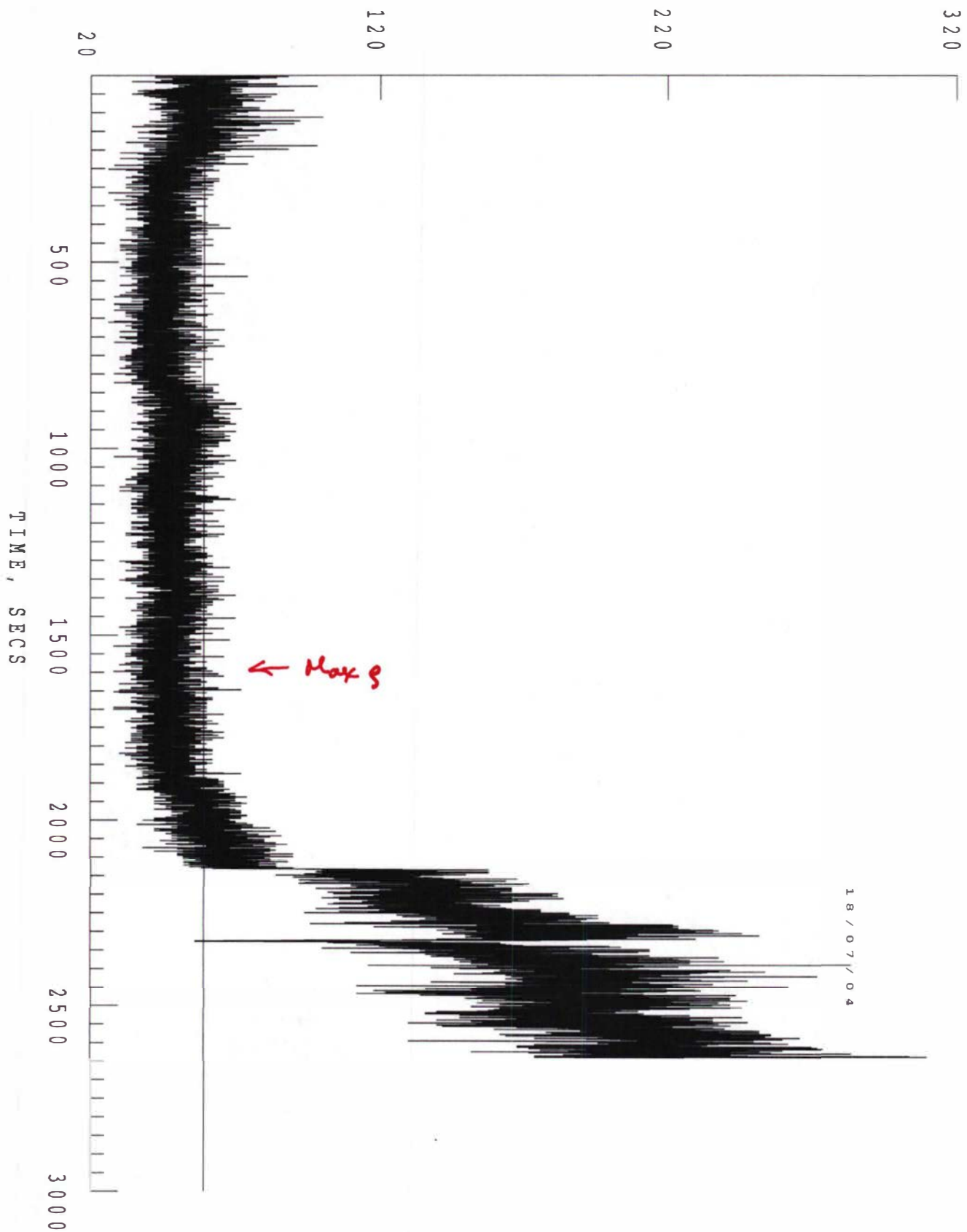
MS01

17/07/04

55840.522

50 - 3000 keV

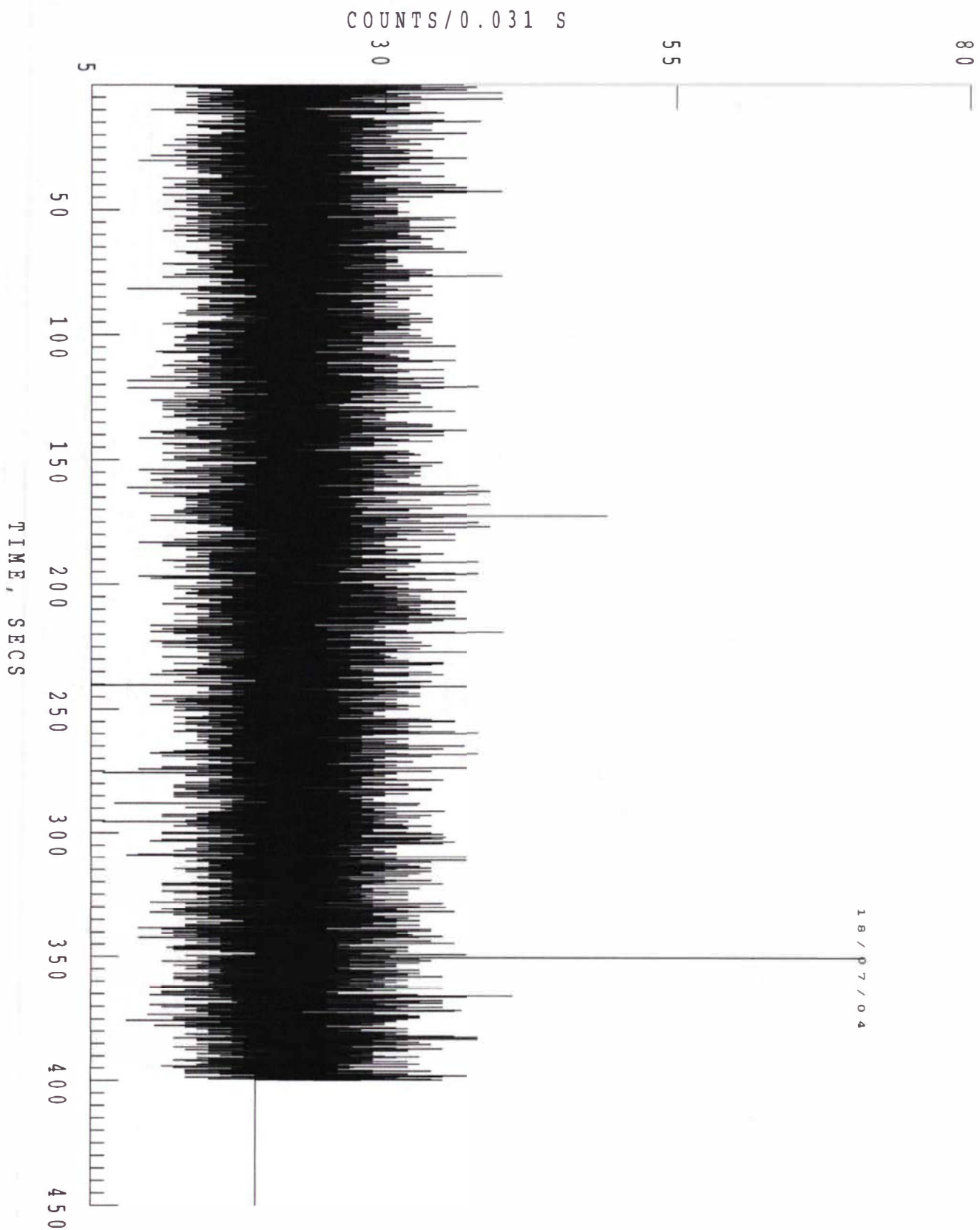
COUNTS/0.250 S



HESSI

17/07/04 56988.000 (KONUS2_20040717_57188)

25- 150 keV



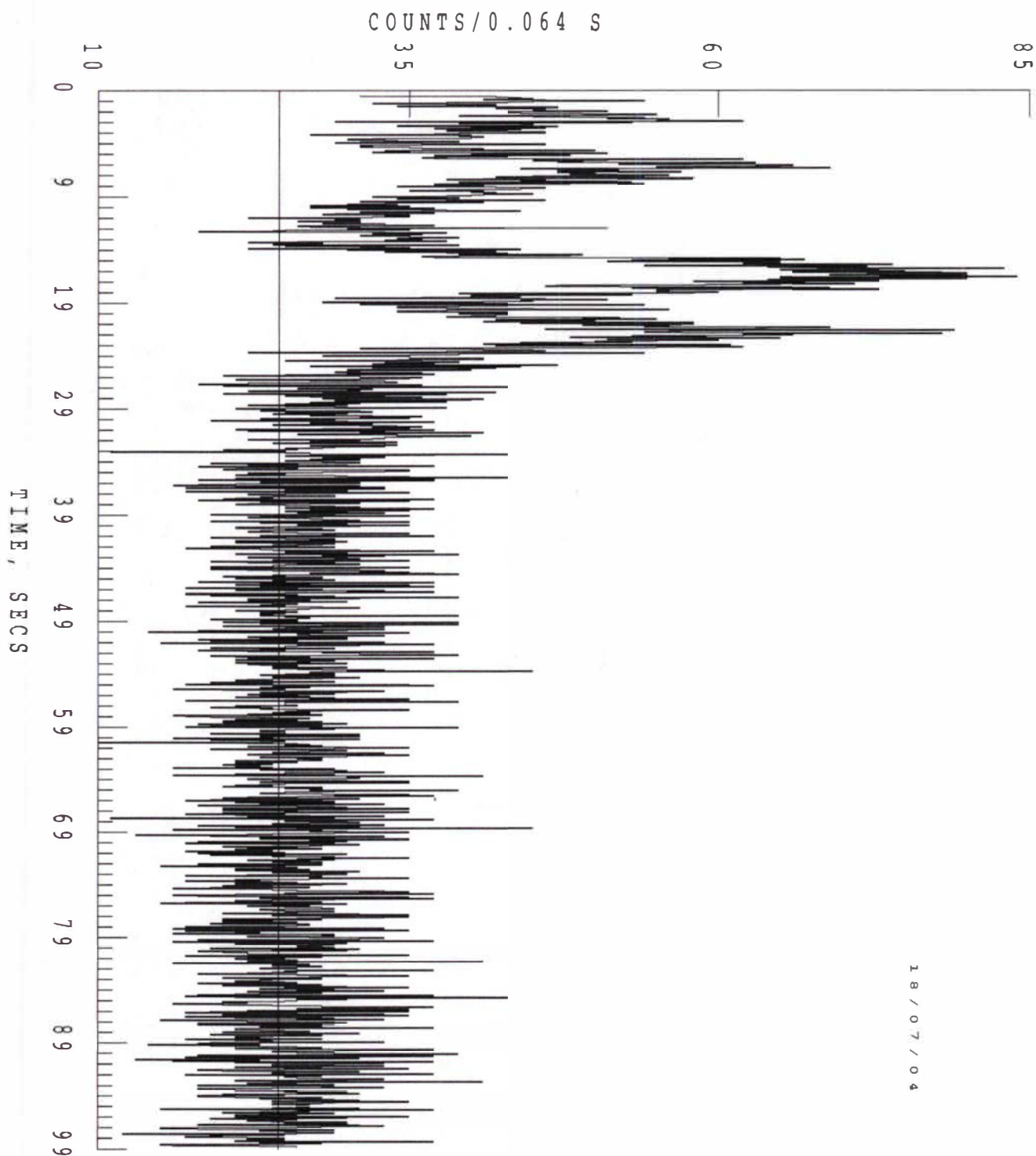
KONUS2

17/07/04

69428.586

50 - 200 keV

Prob solar
Not in any
Konus list



KONUS HRES 20040717 69428

TRIGGER TIME: 17/07/04 DOY 199 Julian 2453205.30356 UT = 19.286 19:17:08 (69428.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

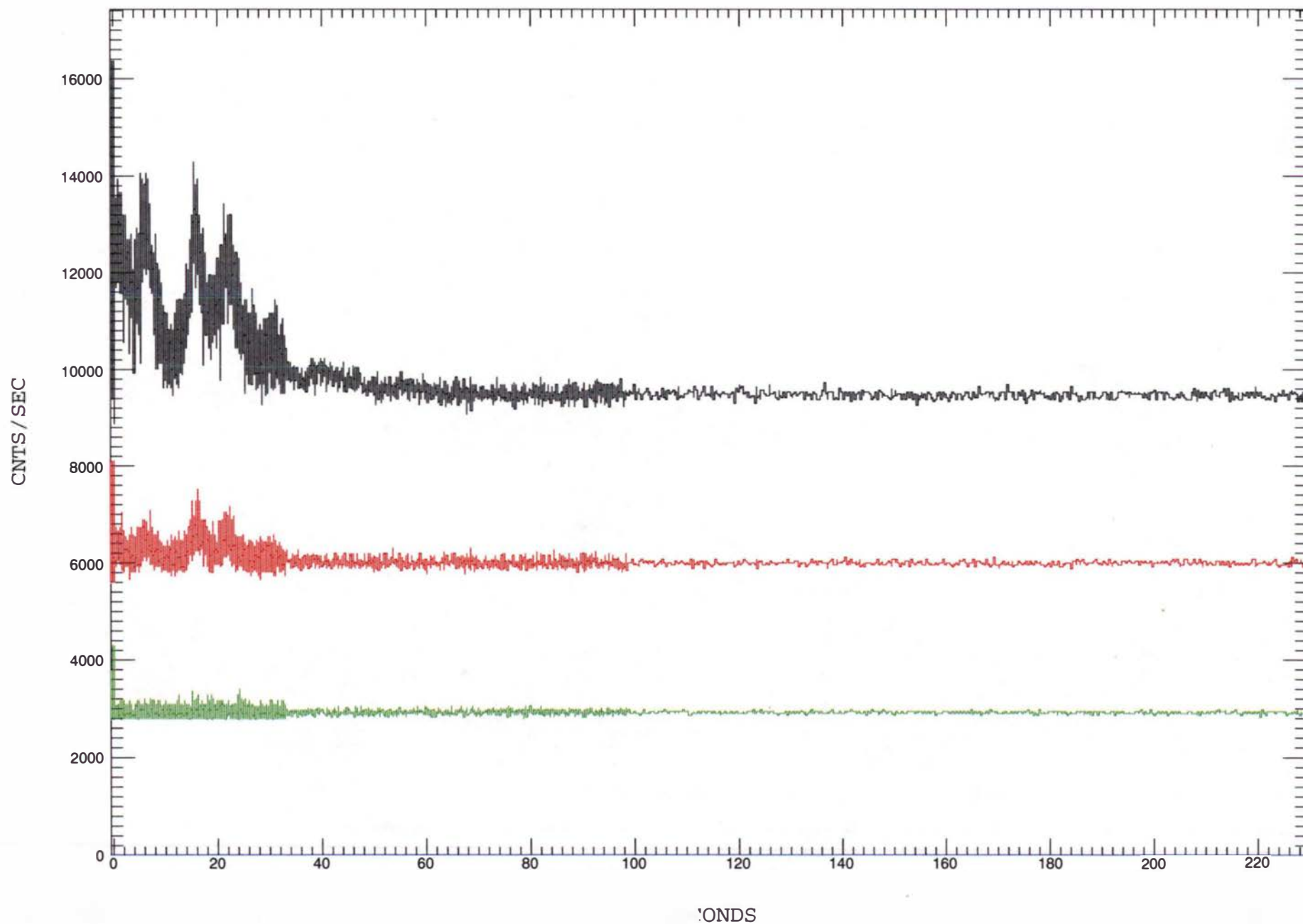
Chan 4 : [> 10 MeV]

Channel 1 + 8400

Channel 2 + 5600

Channel 3 + 2800

Channel 4 + 0



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20040717_69428)

BEG TIME: 17/07/04 DOY 199 Julian 2453205.30125 UT = 19.230 19:13:48 (69228.000 secs) [sct = 0019 9d15 20d9 d33b]
 END TIME: 17/07/04 DOY 199 Julian 2453205.30583 UT = 19.340 19:20:24 (69624.000 secs) [sct = 0019 9d15 3874 4f8e]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

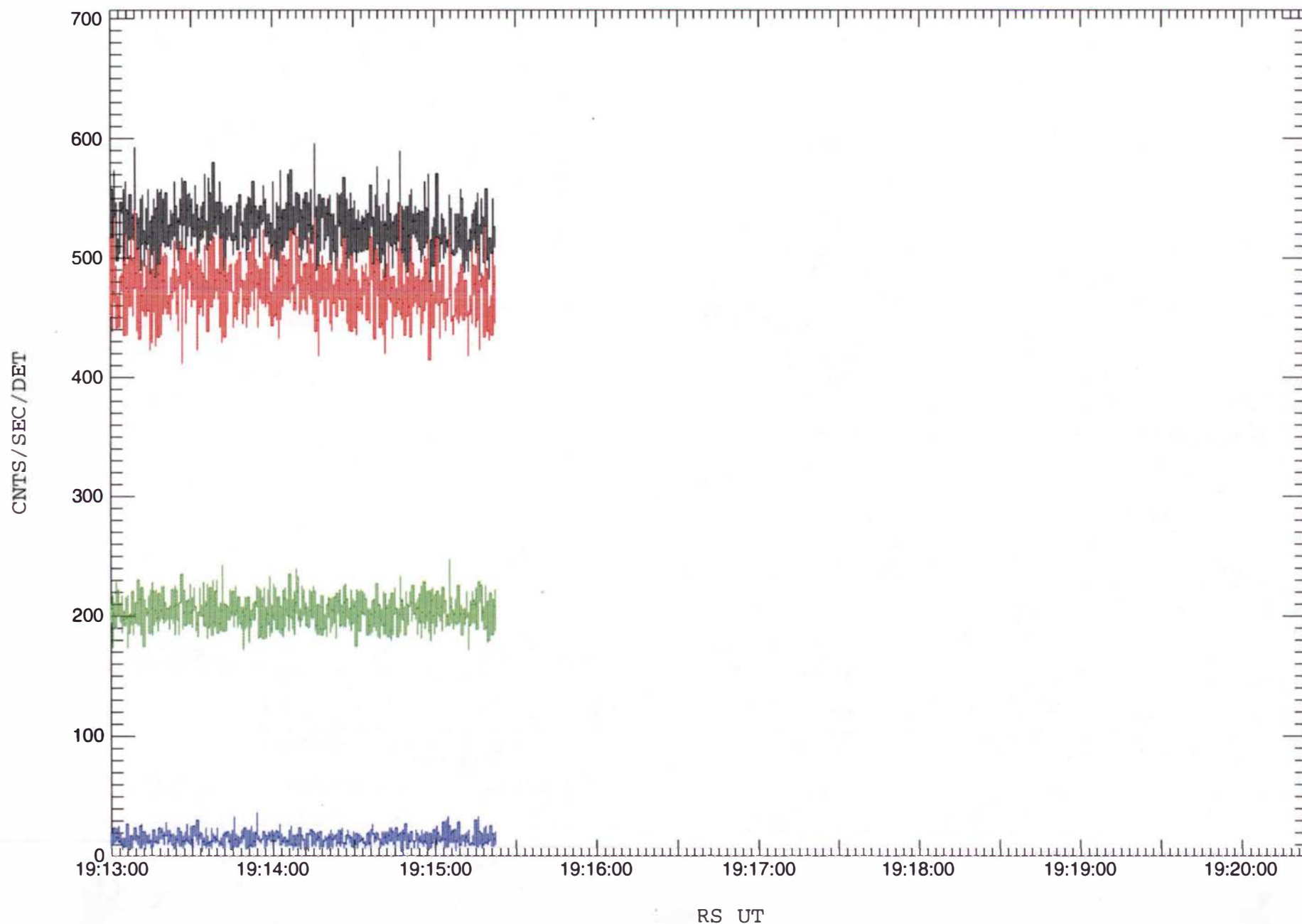
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



MS01

17/07/04

68080.301

50- 3000 keV

COUNTS/0.250 S

120

170

20

500

1000

1500

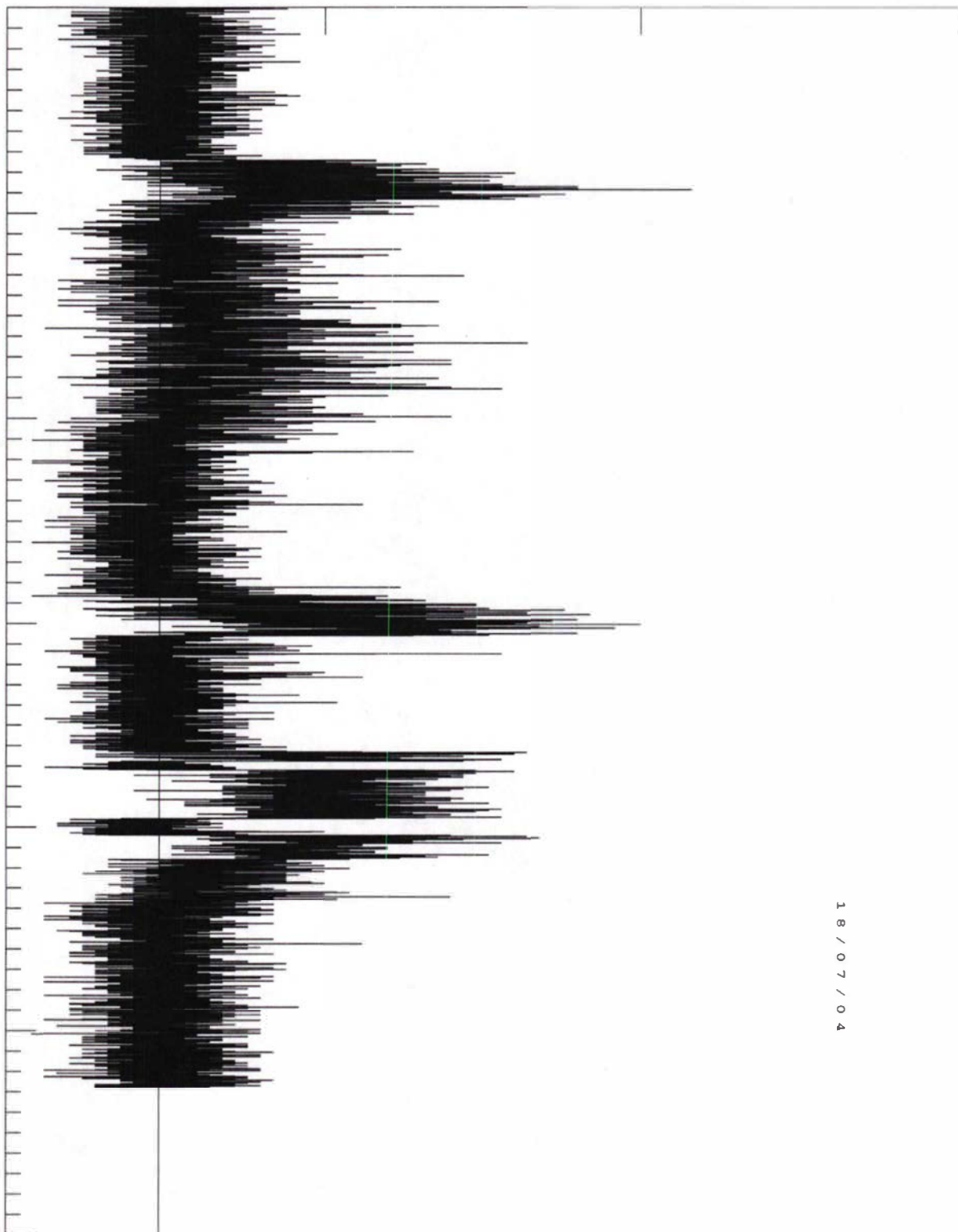
2000

2500

3000

TIME, SECS

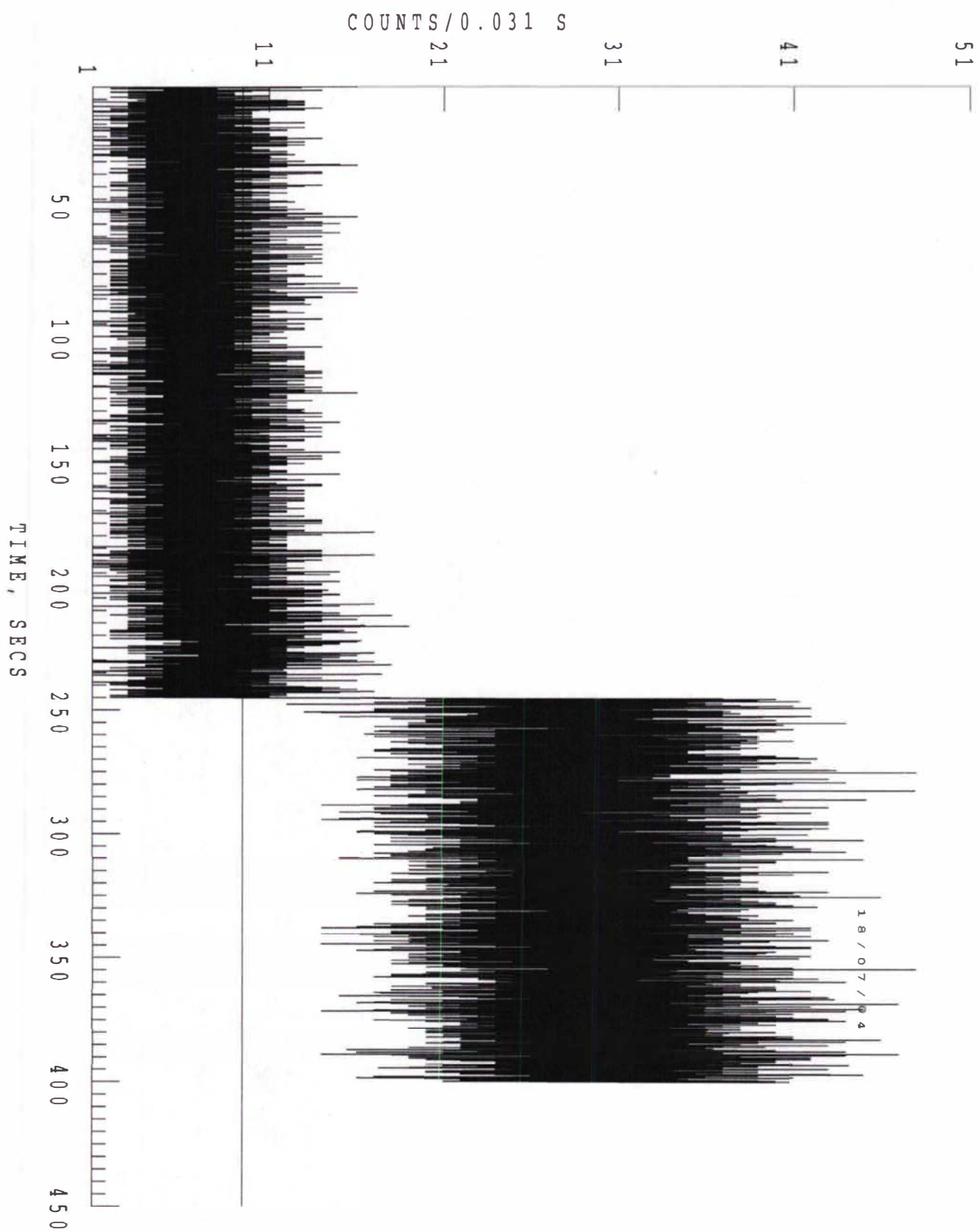
18/07/04

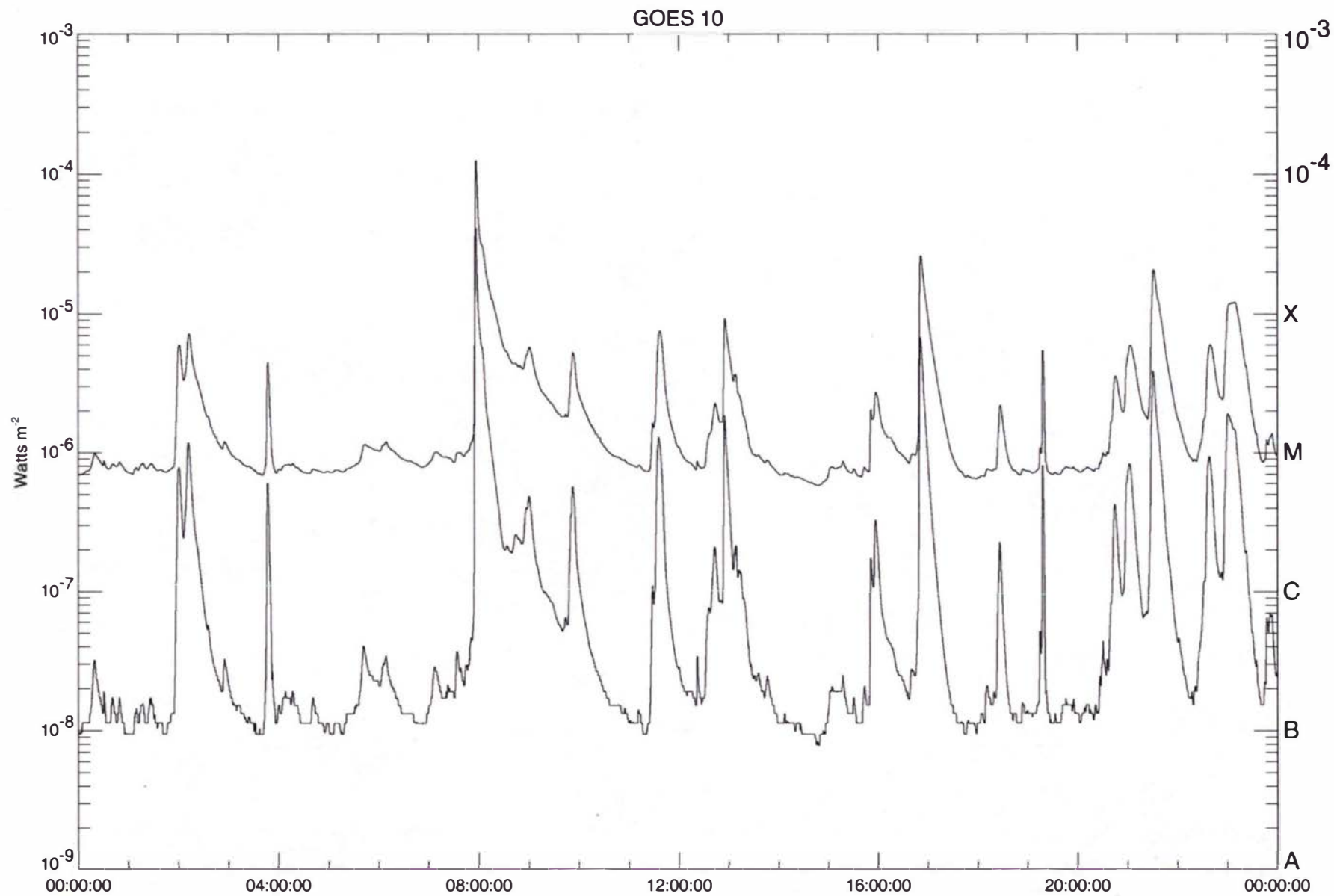


HESSI

17/07/04 69228.000 (KONUS2_20040717_69428)

25- 150 keV





Data Start: 04/07/17, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/18, 0828

Sample average = 10

KONUS2

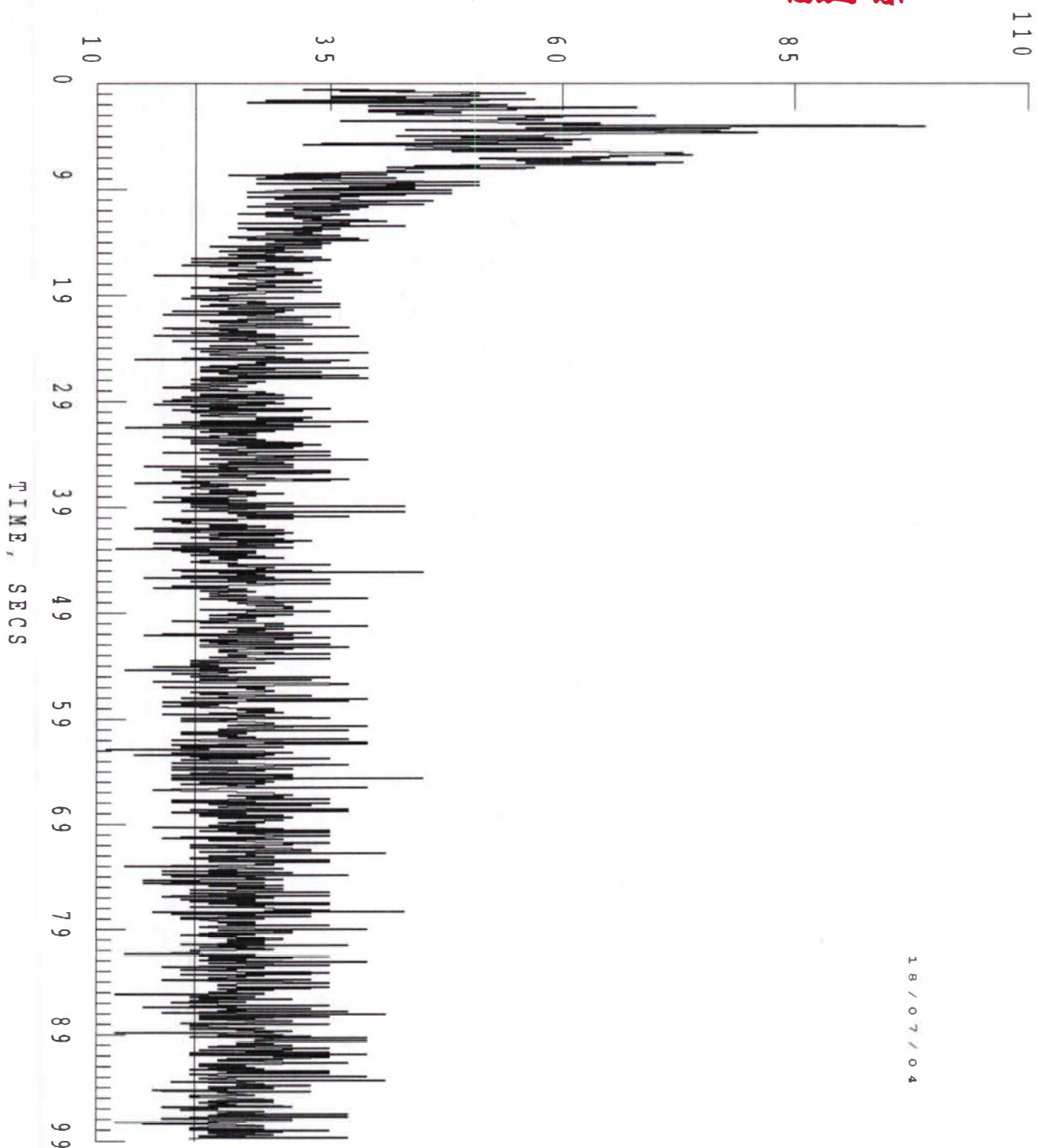
18/07/04

10441.450

50 - 200 keV

Prob. solar
Not in either
Konus list

COUNTS/0.064 S



KONUS HRES 20040718 10441

TRIGGER TIME: 18/07/04 DOY 200 Julian 2453205.62084 UT = 02.900 02:54:01 (10441.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

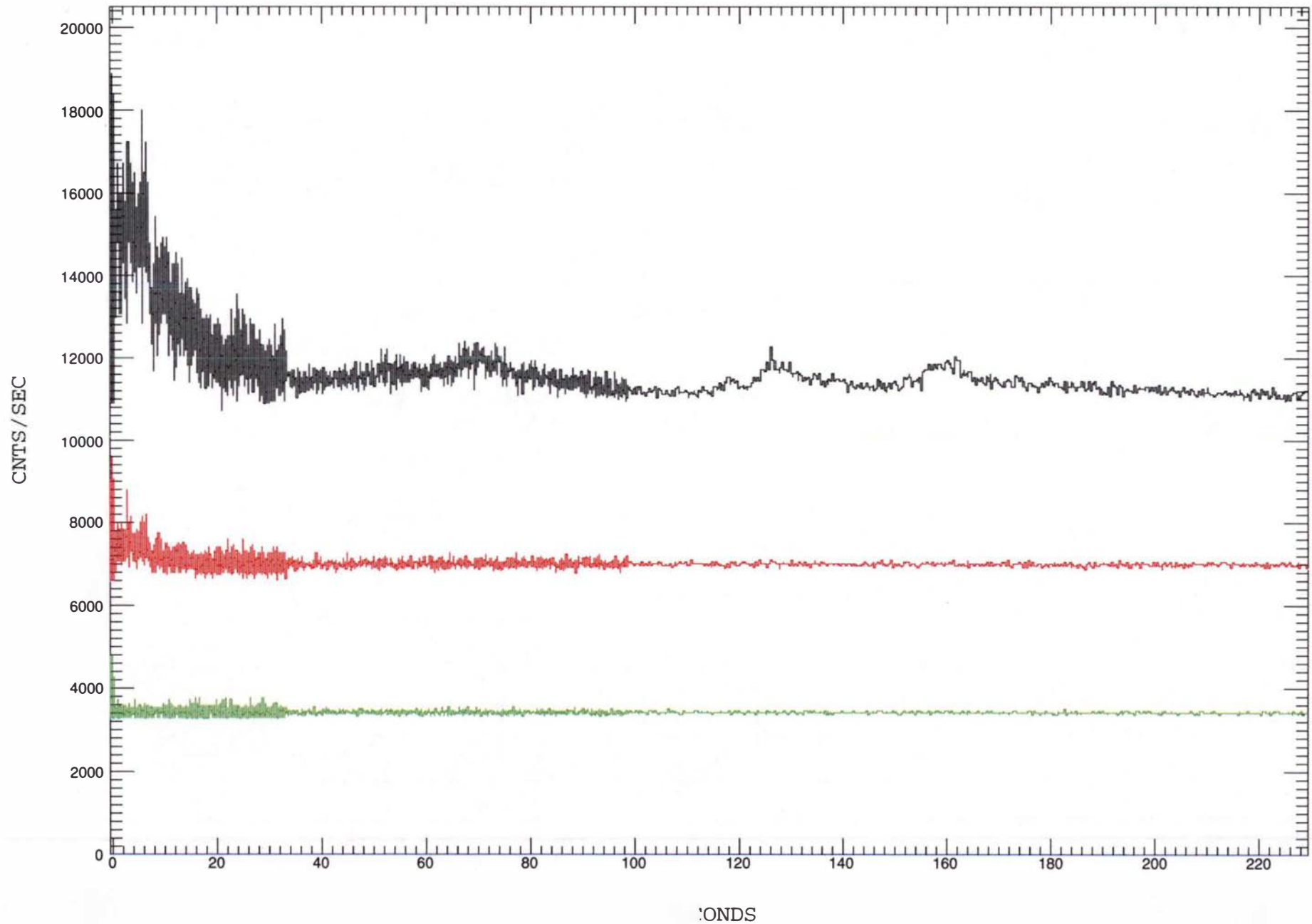
Chan 4 : [> 10 MeV]

Channel 1 + 9900

Channel 2 + 6600

Channel 3 + 3300

Channel 4 + 0



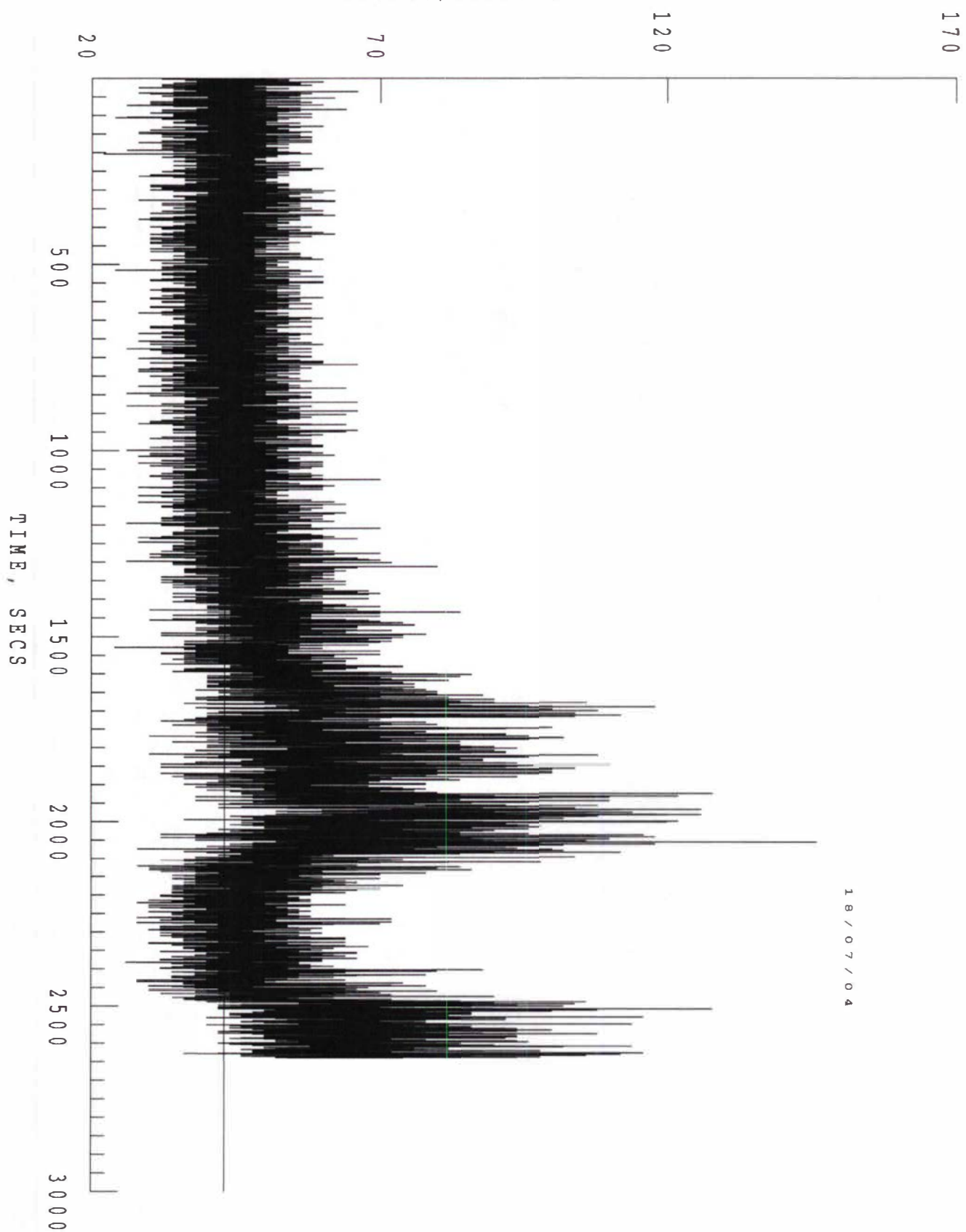
MS01

18/07/04

9099.791

50 - 3000 keV

COUNTS/0.250 S



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20040718_10441)

BEG TIME: 18/07/04 DOY 200 Julian 2453205.61833 UT = 02.840 02:50:24 (10224.000 secs) [sct = 0019 9d1b 81c7 f7a8]
 END TIME: 18/07/04 DOY 200 Julian 2453205.62333 UT = 02.960 02:57:36 (10656.000 secs) [sct = 0019 9d1b 9b87 c519]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

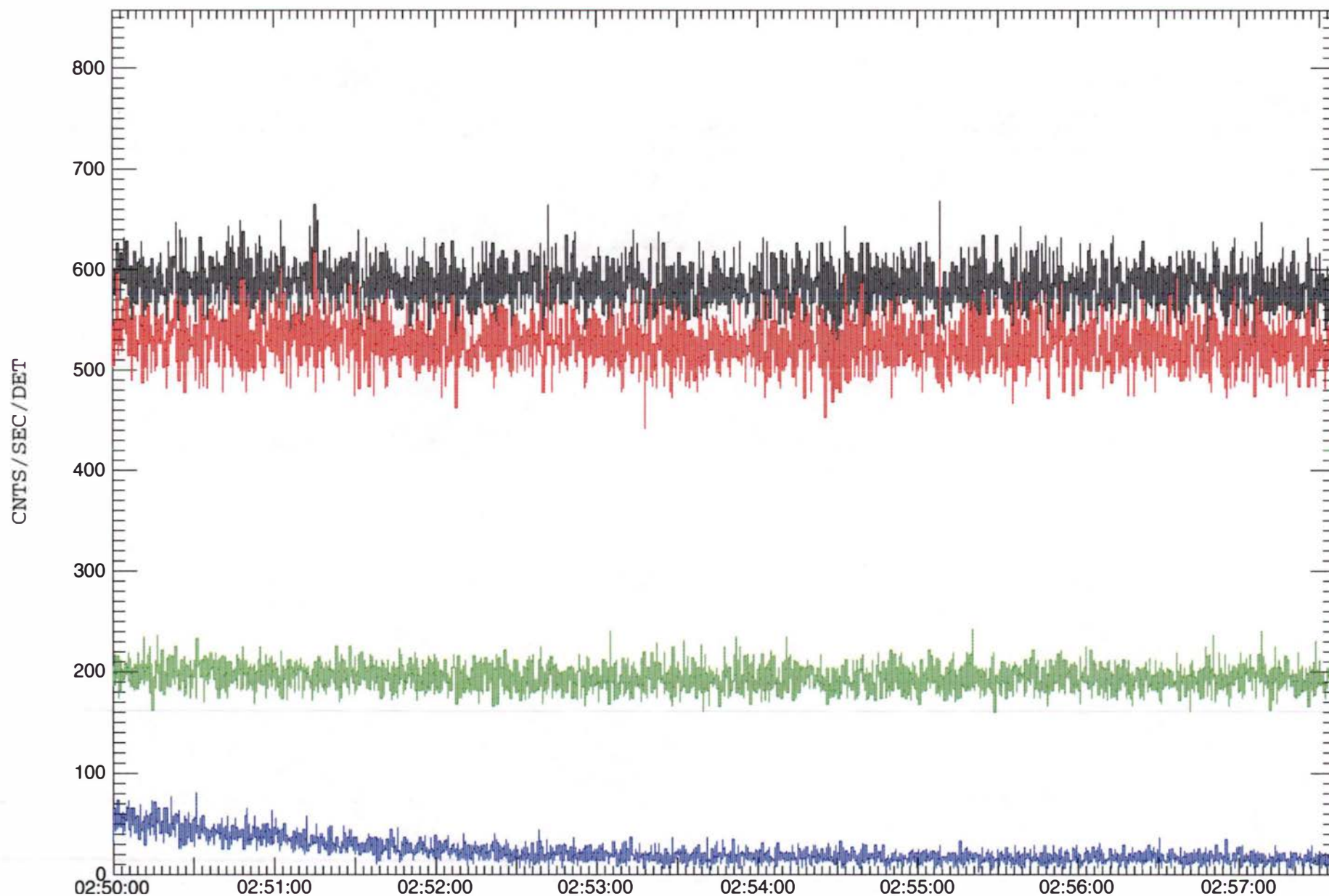
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

From williams@sunspot.ssl.berkeley.edu Fri Jul 23 07:29:52 2004
Date: Fri, 23 Jul 2004 07:32:56 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_KONUS2_20040718_10441

HESSI 25 to 150 keV Counts
Created 23-Jul-2004 07:29:31.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0312500
No SAA
Time Range Partially in eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

KONUS2

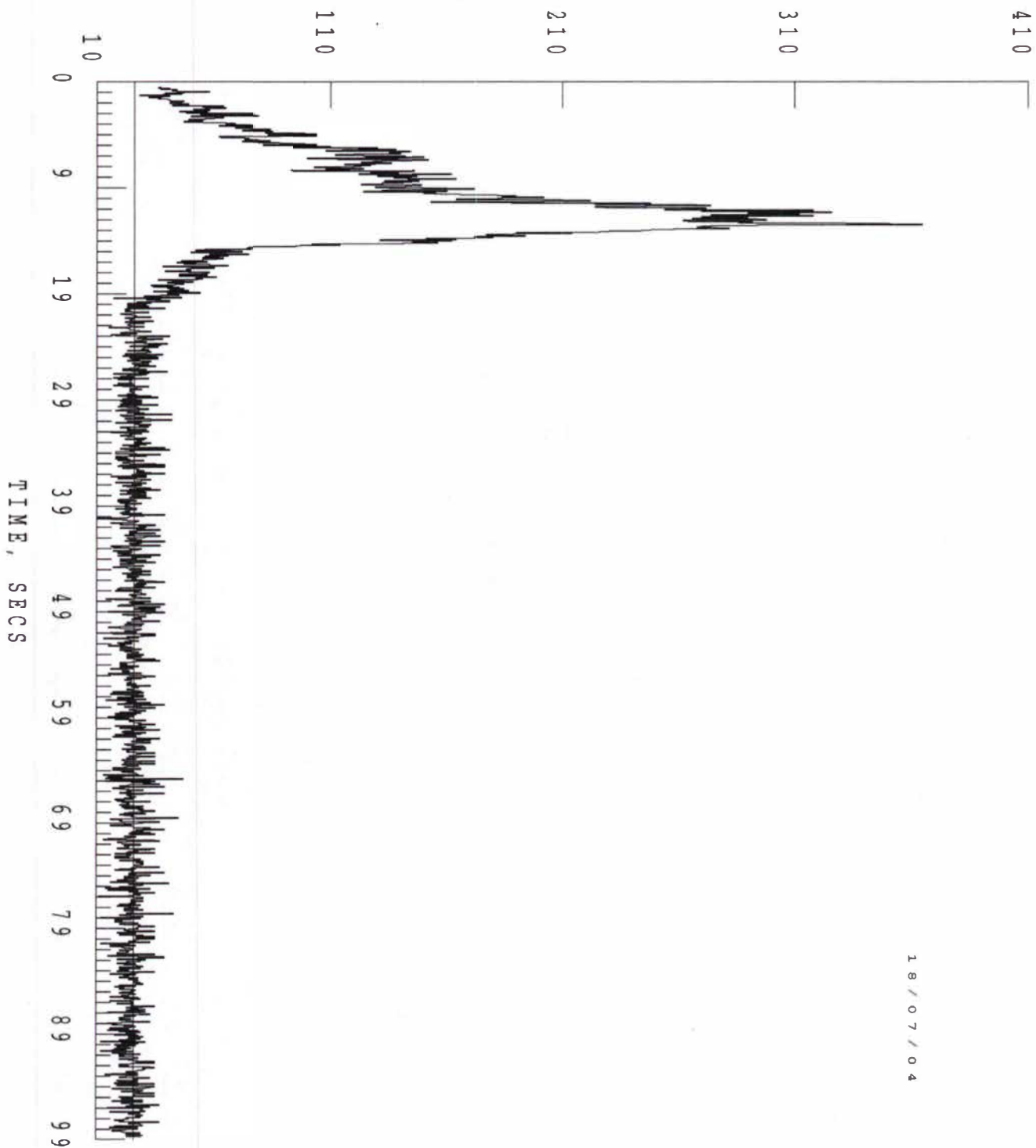
18/07/04

42384.694

50 - 200 keV

*Prob solar
Not in either
Konus hot*

COUNTS/0.064 S



KONUS HRES 20040718 42384

TRIGGER TIME: 18/07/04 DOY 200 Julian 2453205.99056 UT = 11.773 11:46:24 (42384.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

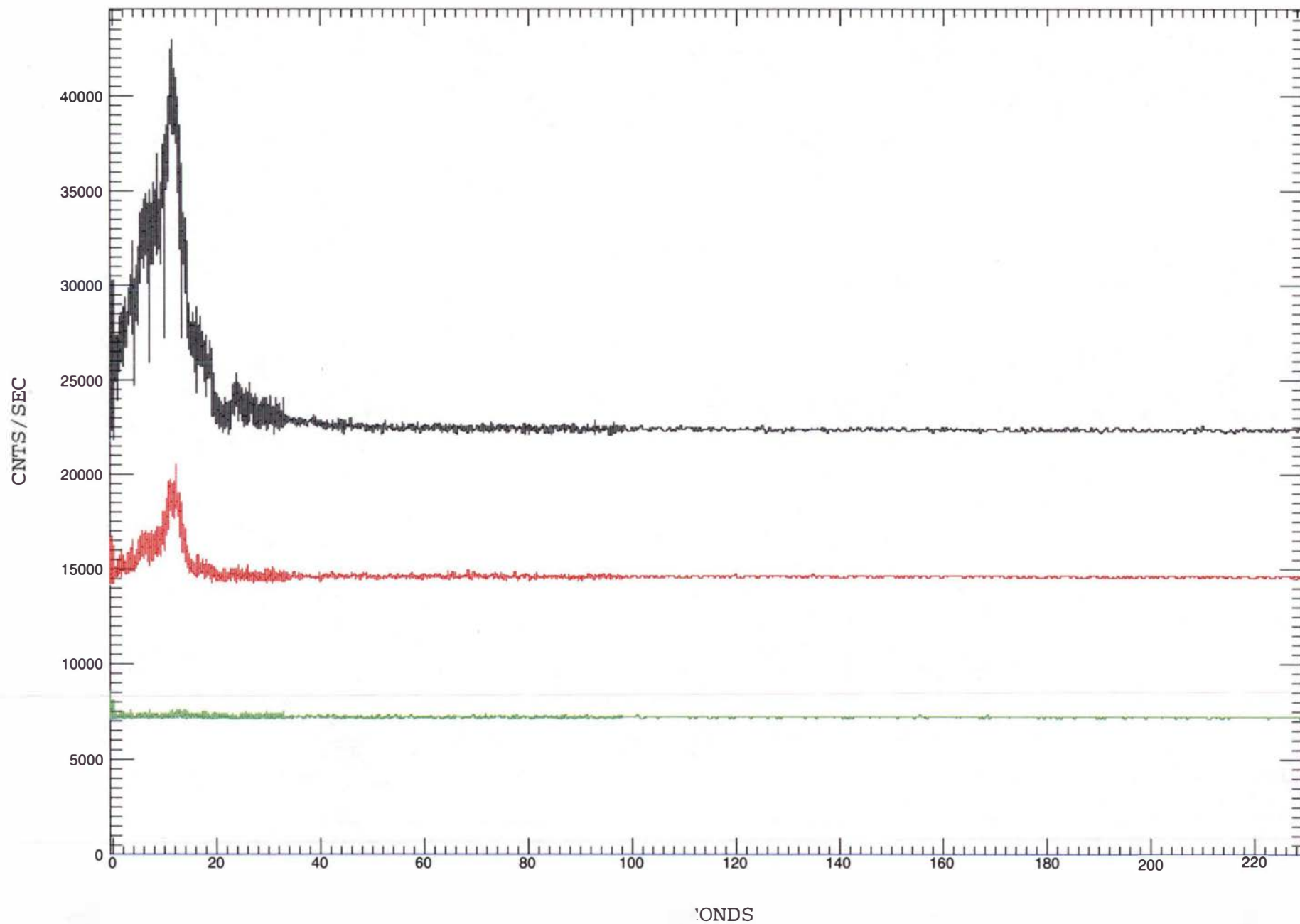
Chan 4 : [> 10 MeV]

Channel 1 + 21300

Channel 2 + 14200

Channel 3 + 7100

Channel 4 + 0



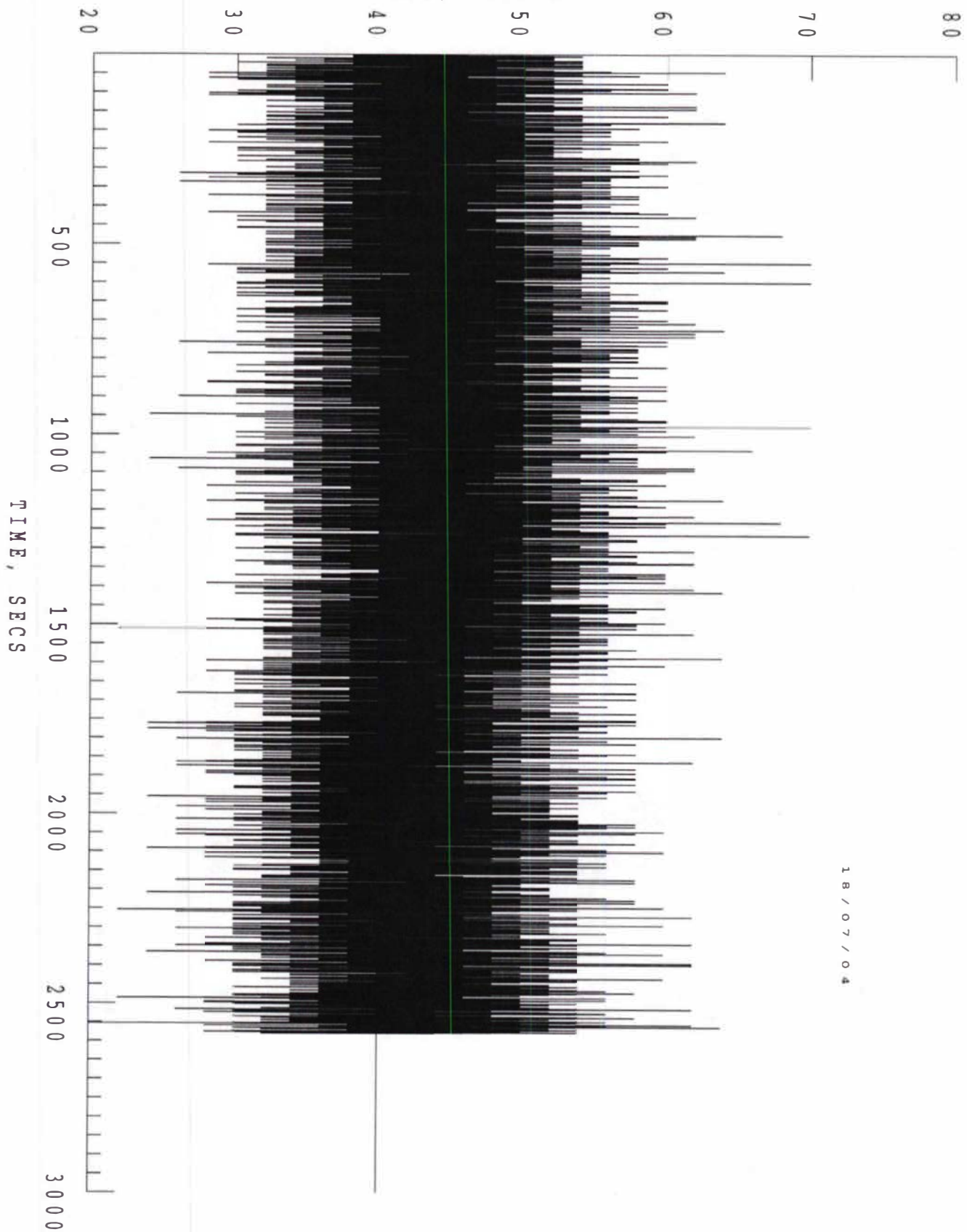
MS01

18/07/04

41079.198

50 - 3000 keV

COUNTS/0.250 S

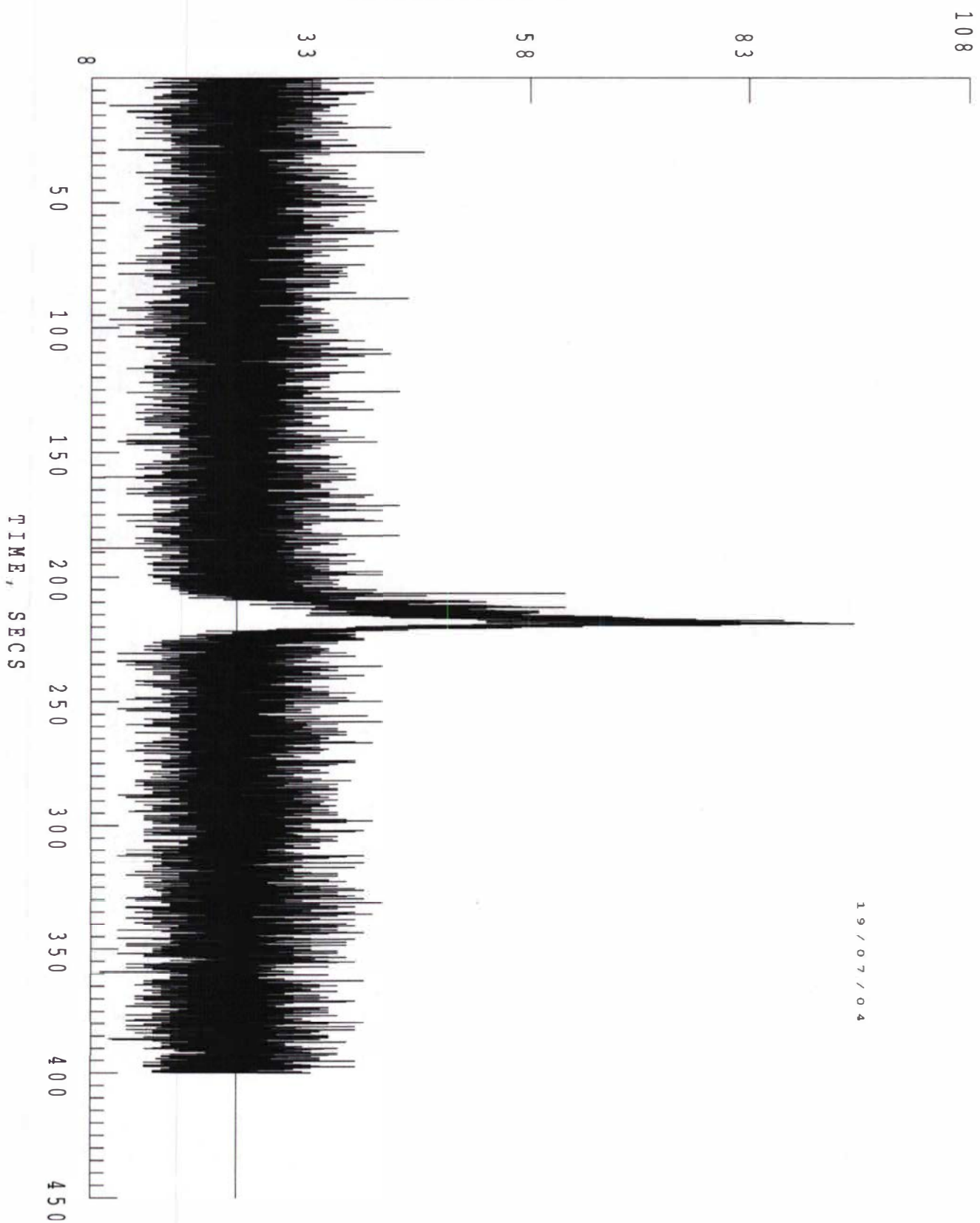


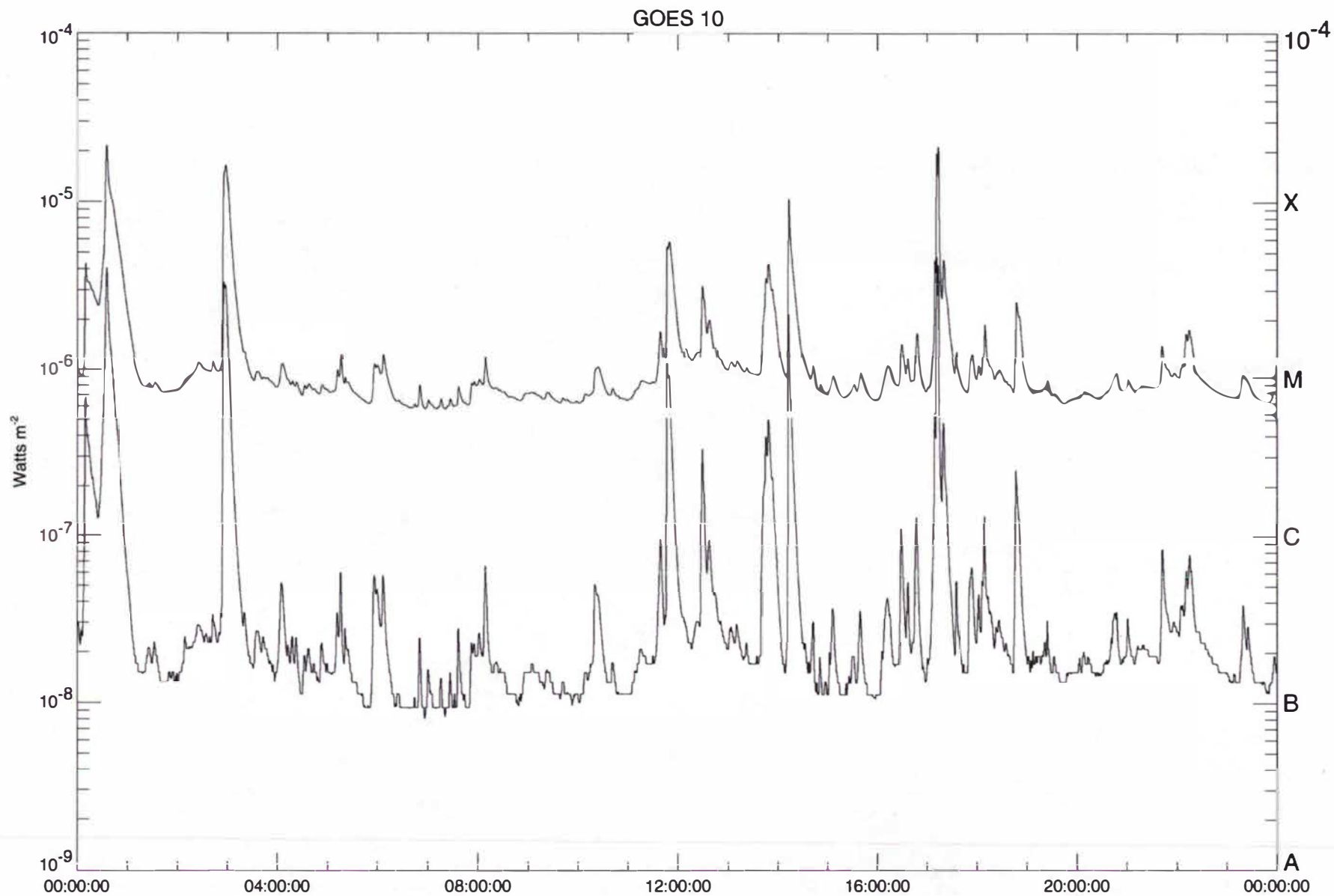
HESSI

18/07/04 42184.000 (KONUS2_20040718_42384)

25- 150 keV

COUNTS/0.031 S





Data Start: 04/07/18, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/19, 0828

Sample average = 10

Date: Jan 30 2002

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

- ☐ 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?
- ☐ 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

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

3. For INTEGRAL events

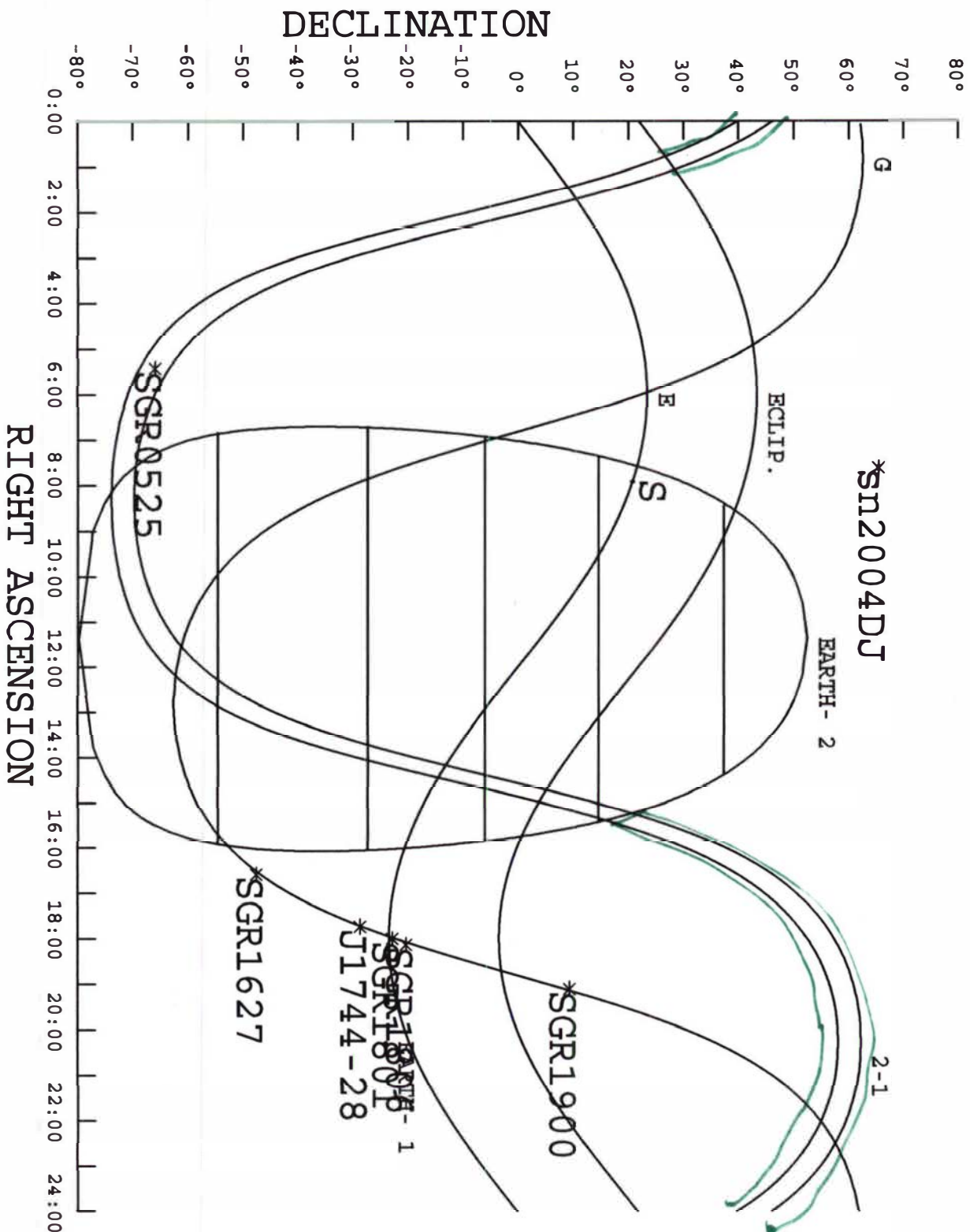
- ☐ INTEGRAL SPI-ACS website checked for bursts that weren't transmitted automatically?
- ☐ 125 ms added to INTEGRAL SPI-ACS time for bursts prior to April 2 2004 11:00 UT?
- ☐ Updated ephemeris used for bursts prior to September 30, 2003?

-
- ☒ ACCESS and MBL4 databases updated?

EVENT OF JUL 19, 2004 1:16

30 / 1 / 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 HESSI



KONUS2

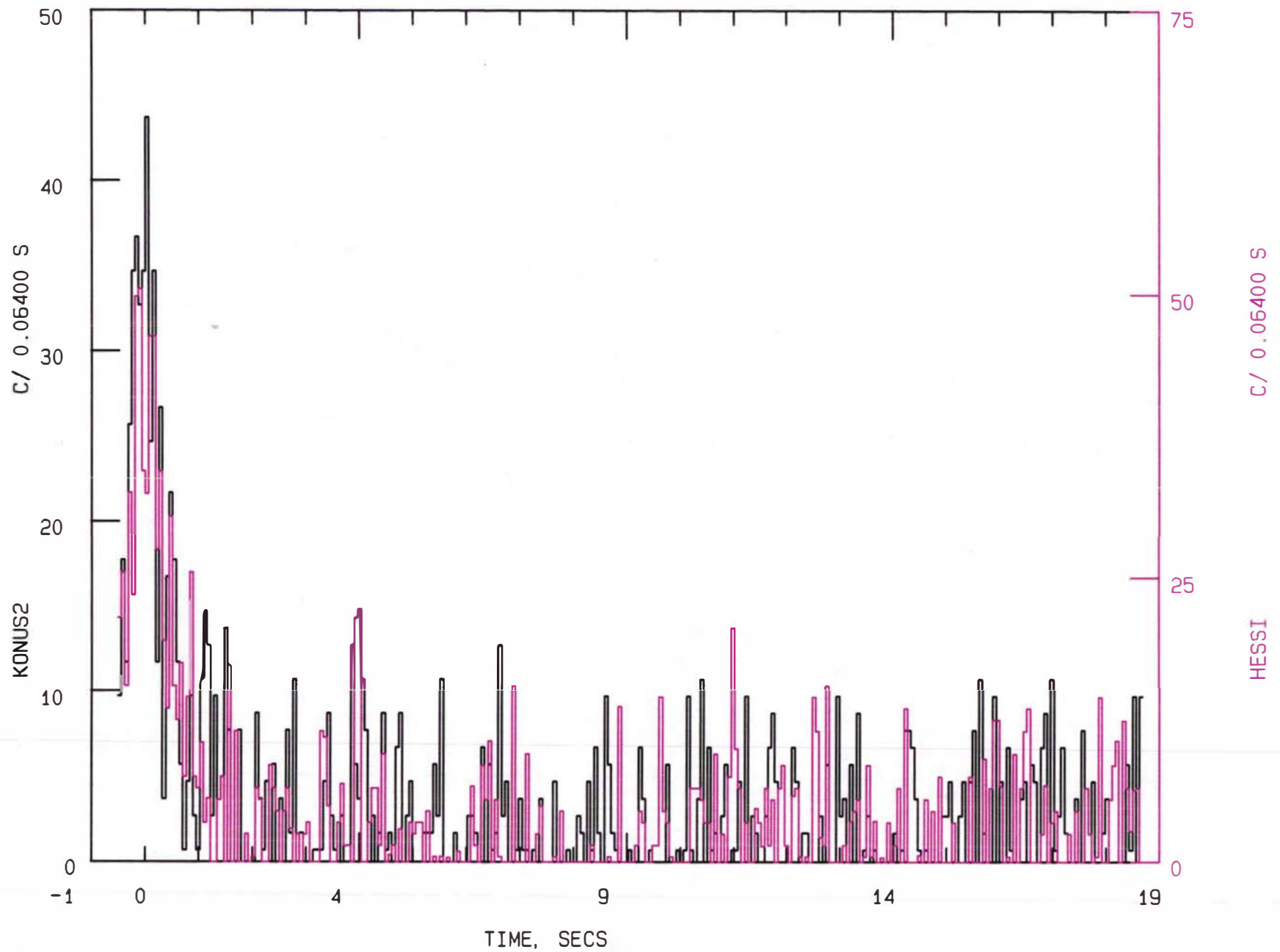
-HESSI

CORRELATION

19/07/04

4591.873

10/ 8/ 4



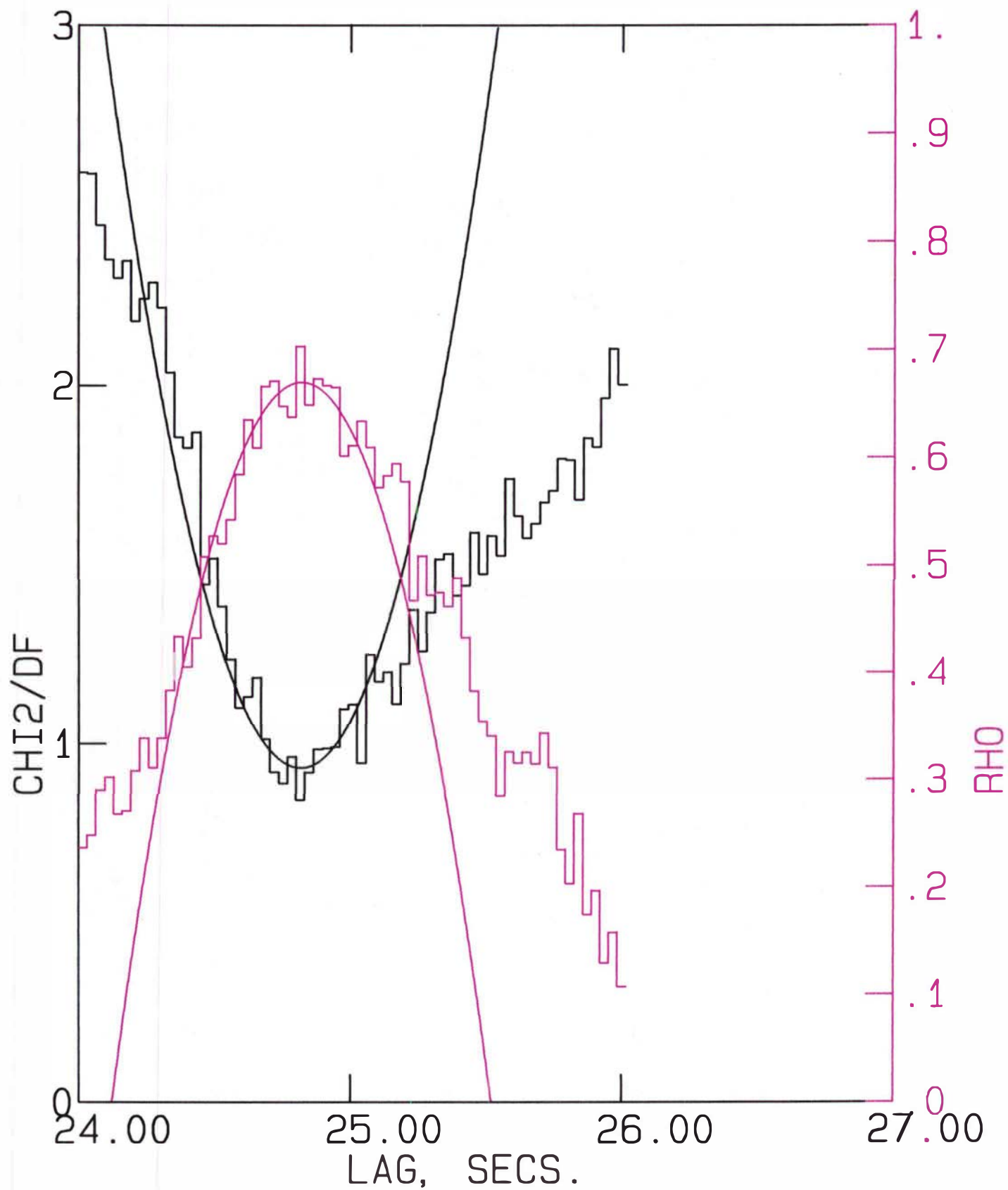
KONUS2

-HESSI

CORRELATION

19/07/04

4591.873



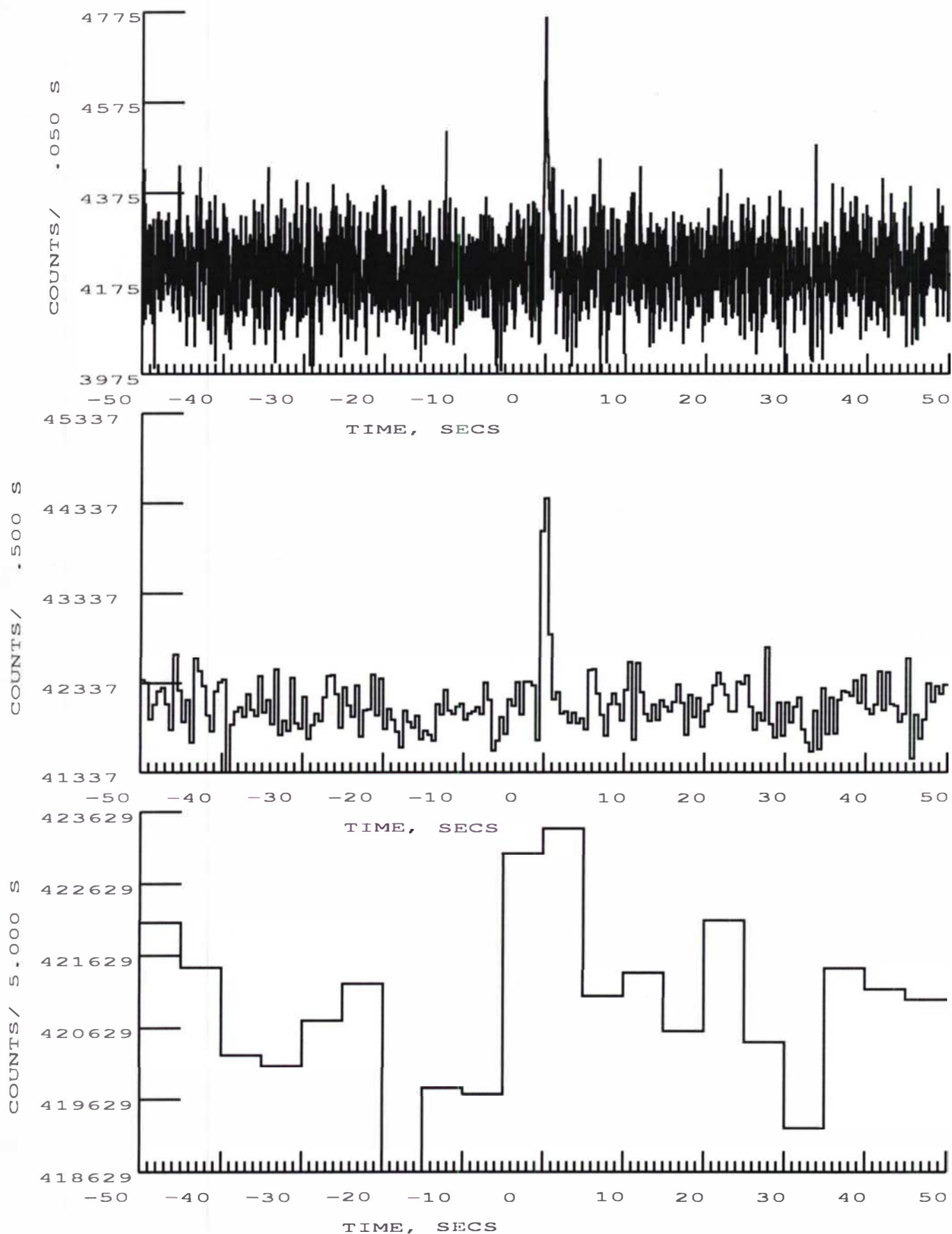
INTEGRAL

19/07/04

4591.000

01:16:31.0

26/09/13



KONUS2

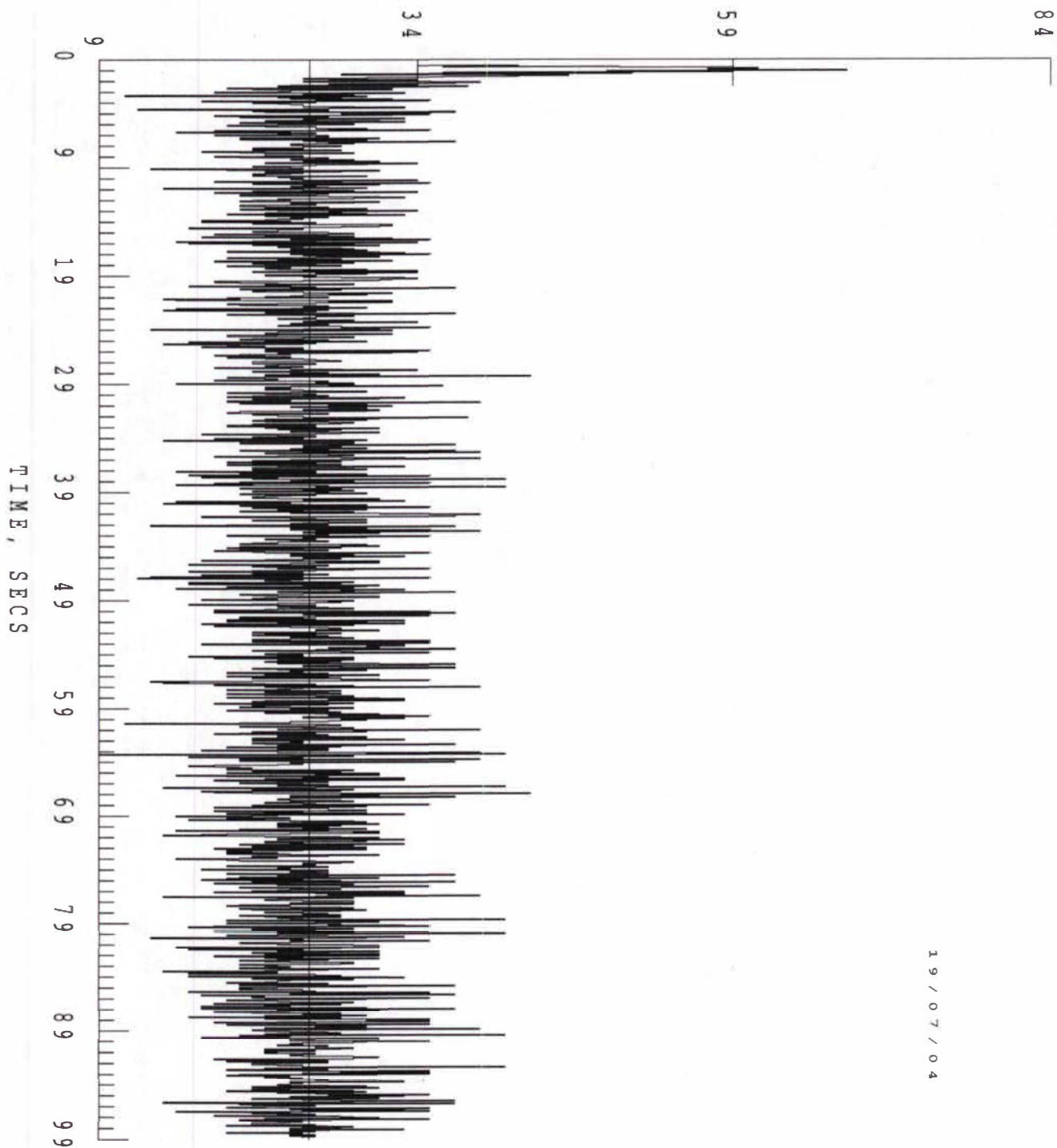
19/07/04

4591.873

50 - 200 keV

01:16:31

COUNTS/0.064 S



19/07/04

KONUS HRES 20040719 04591

TRIGGER TIME: 19/07/04 DOY 201 Julian 2453206.55314 UT = 01.275 01:16:31 (04591.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

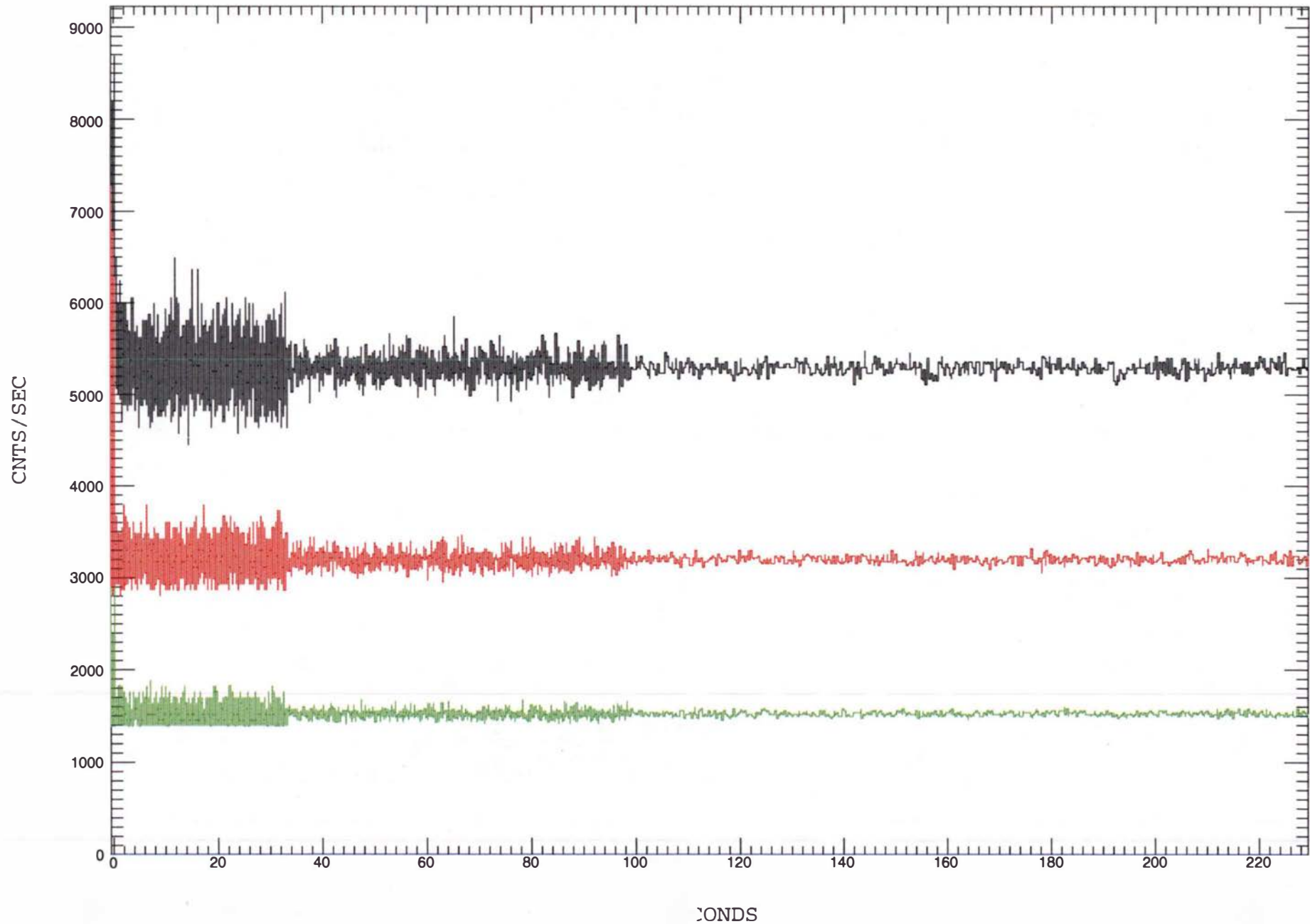
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



HESSI

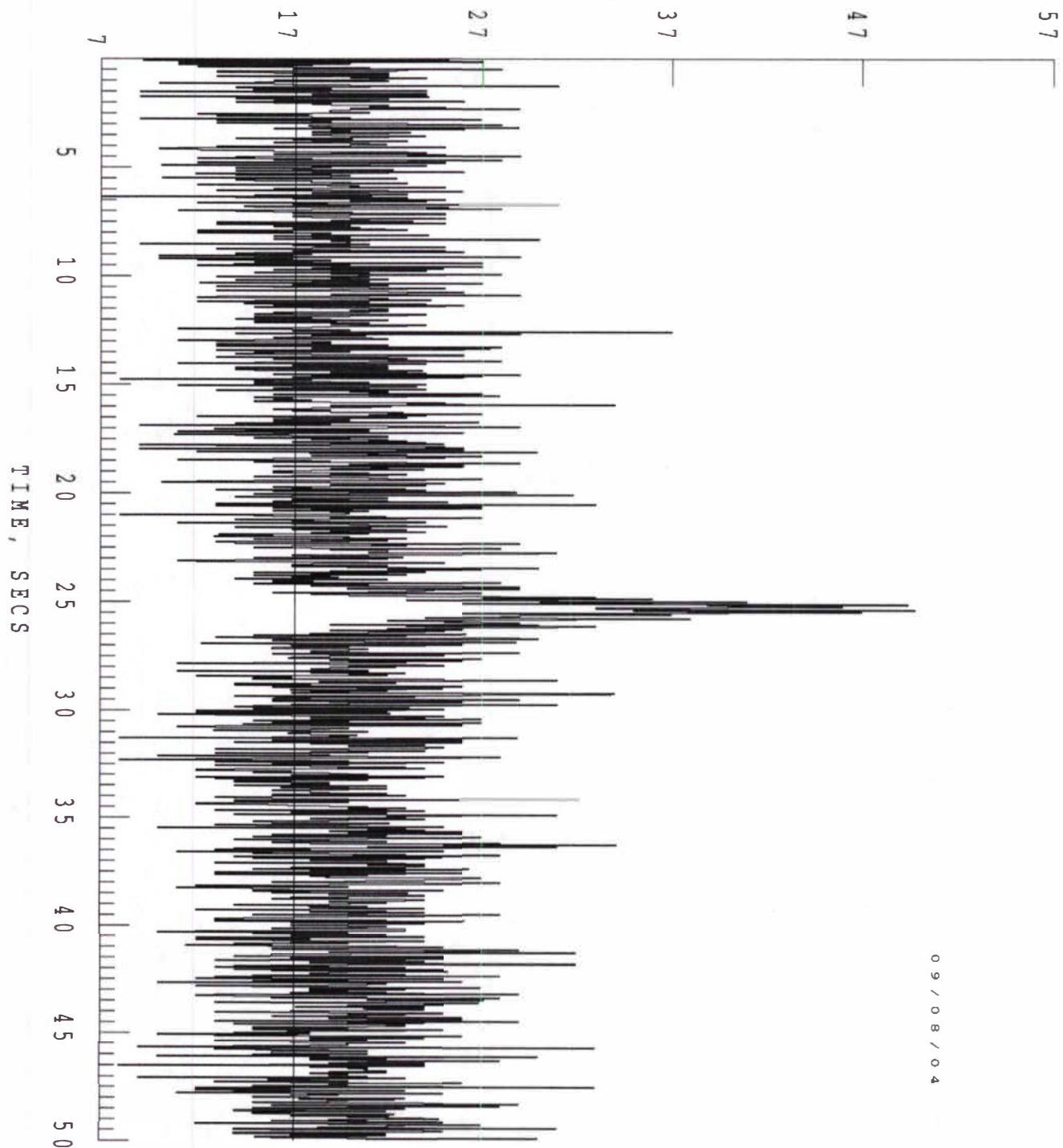
19/07/04

4566.000

(KONUS_20040719_04591)

50- 200 keV

COUNTS/0.032 S



09/08/04

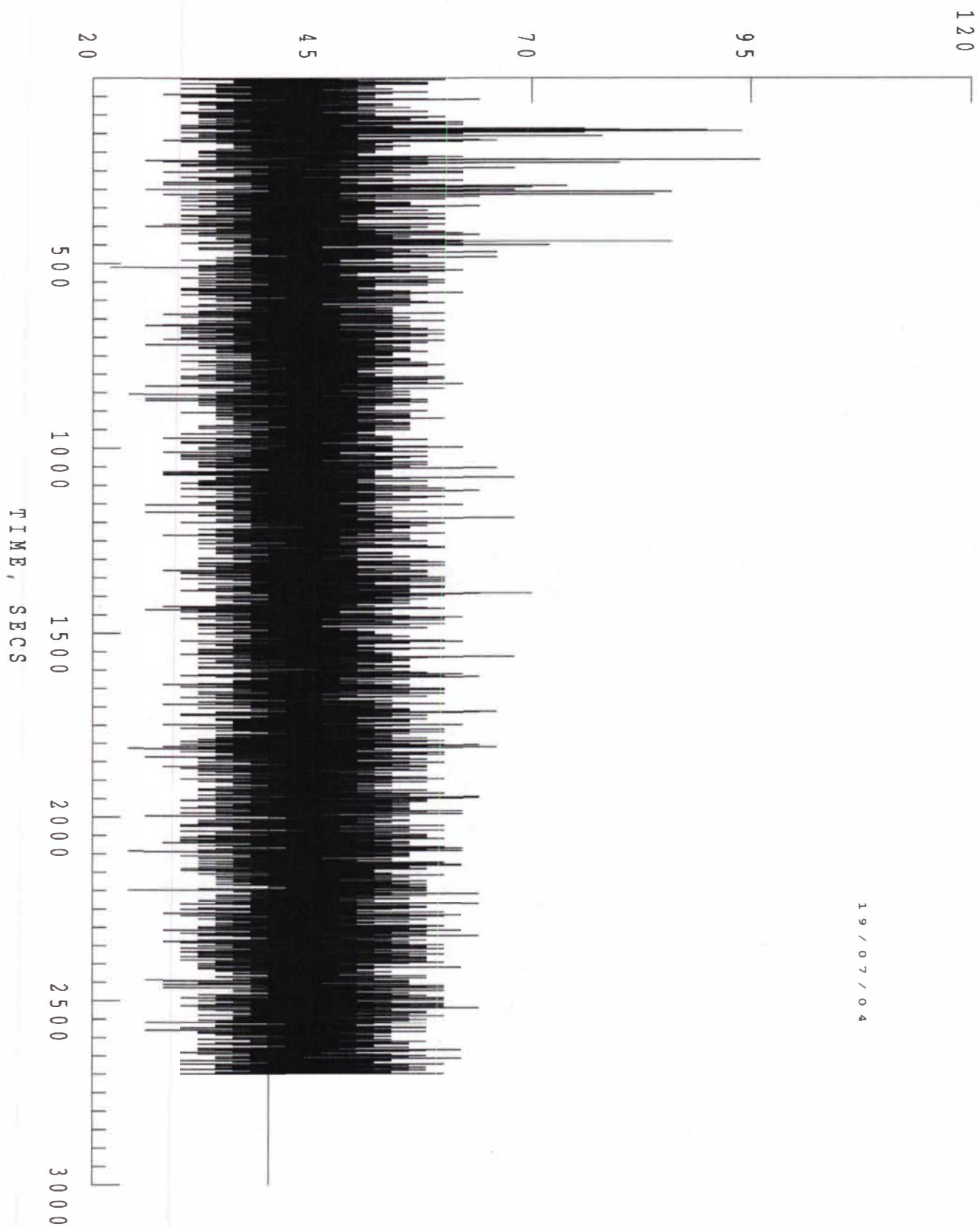
MS01

19/07/04

3218.309

50 - 3000 keV

COUNTS/0.250 S



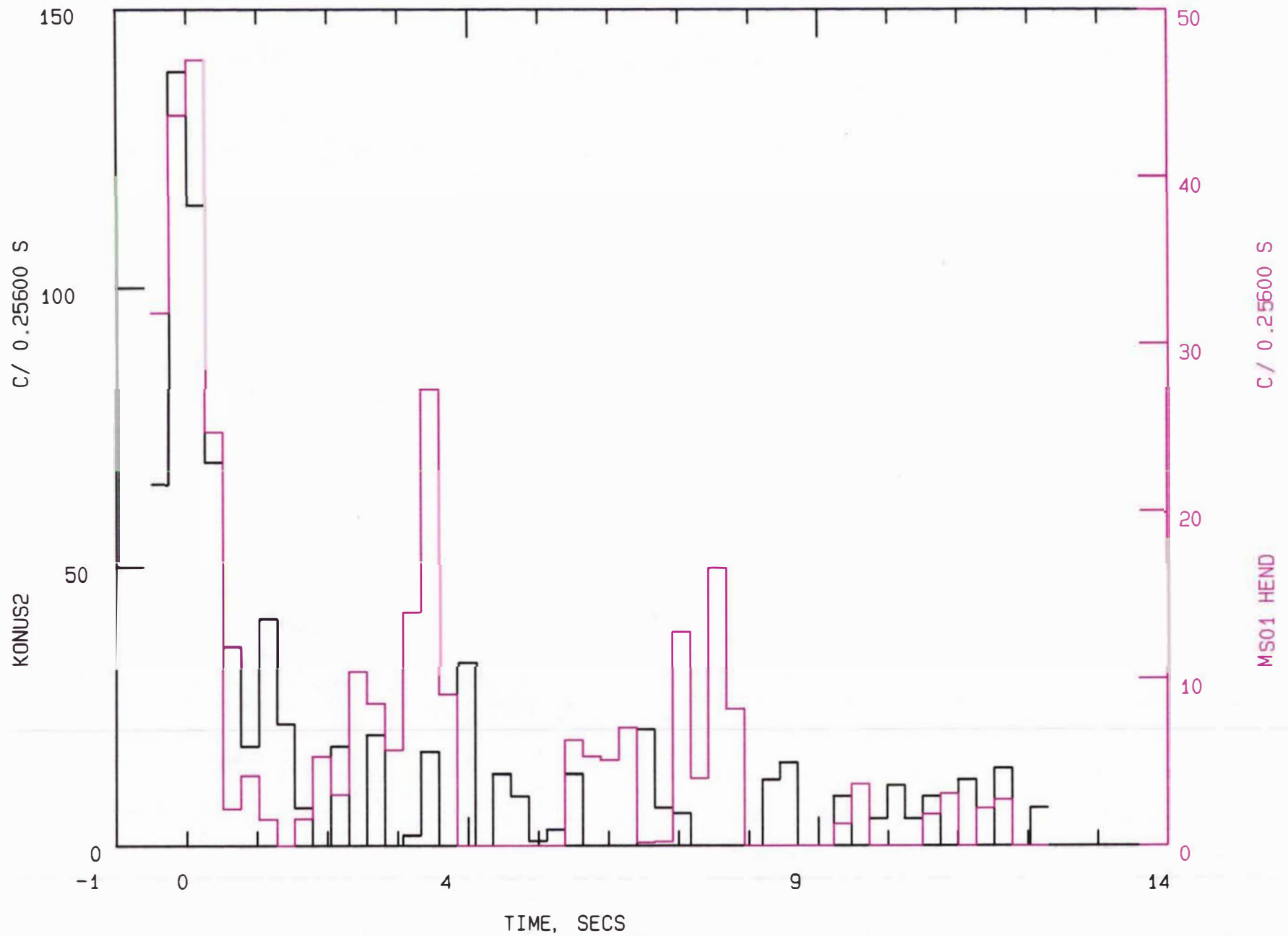
KONUS2

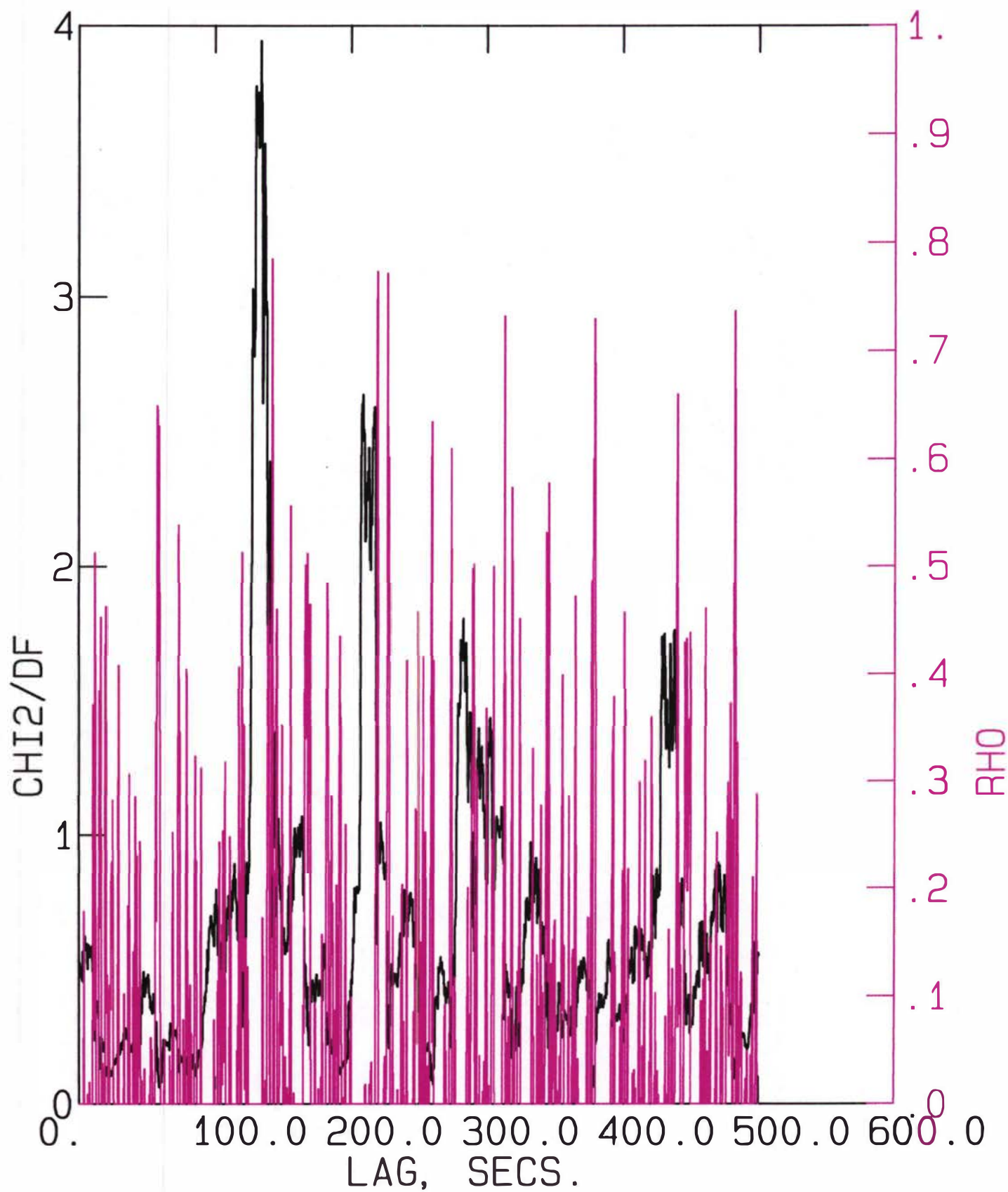
-MS01 HEND CORRELATION

19/07/04

4591.873

9/ 8/ 4



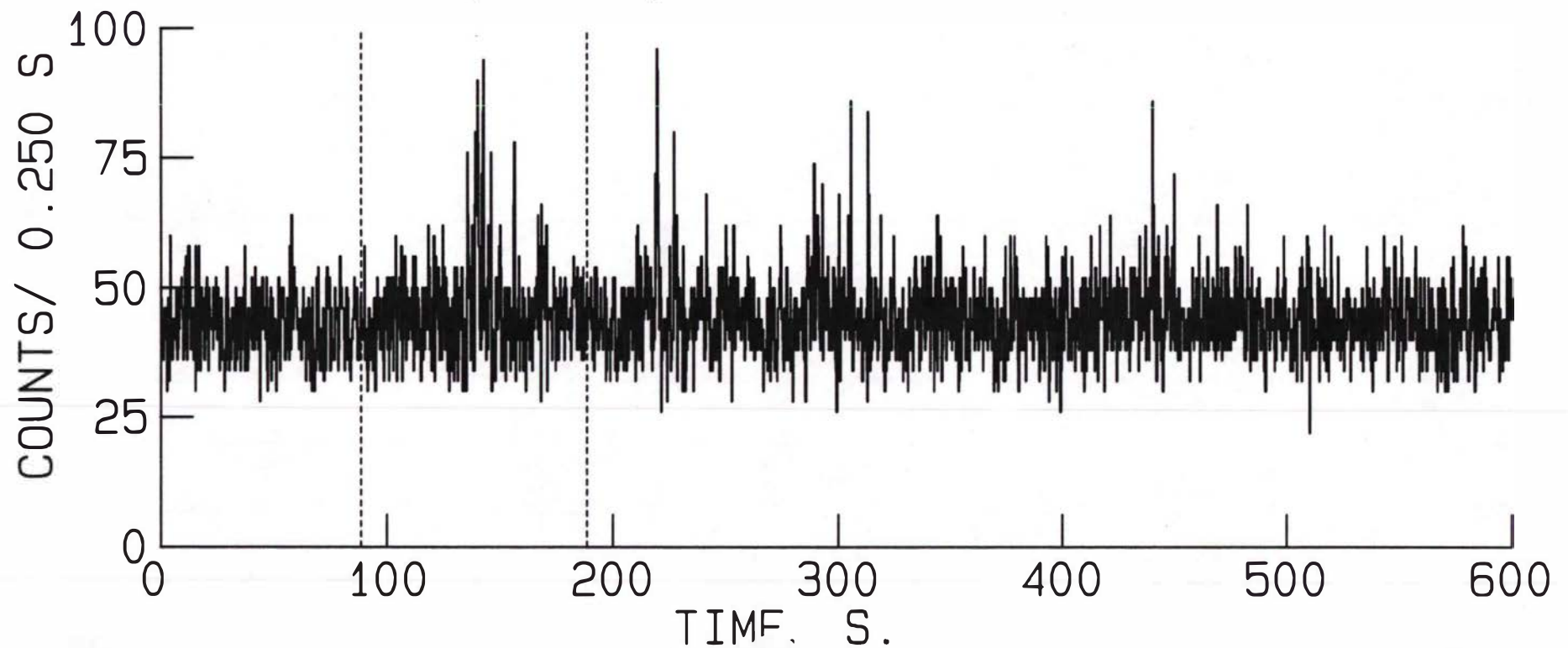


MS01 HEND
19/07/04 3218.309 s
50-3000 keV

09/08/04

Prob. not observed

N= 10 M= 8
>4.0 SIGMA FLUCTUATIONS



KONUS2

19/07/04

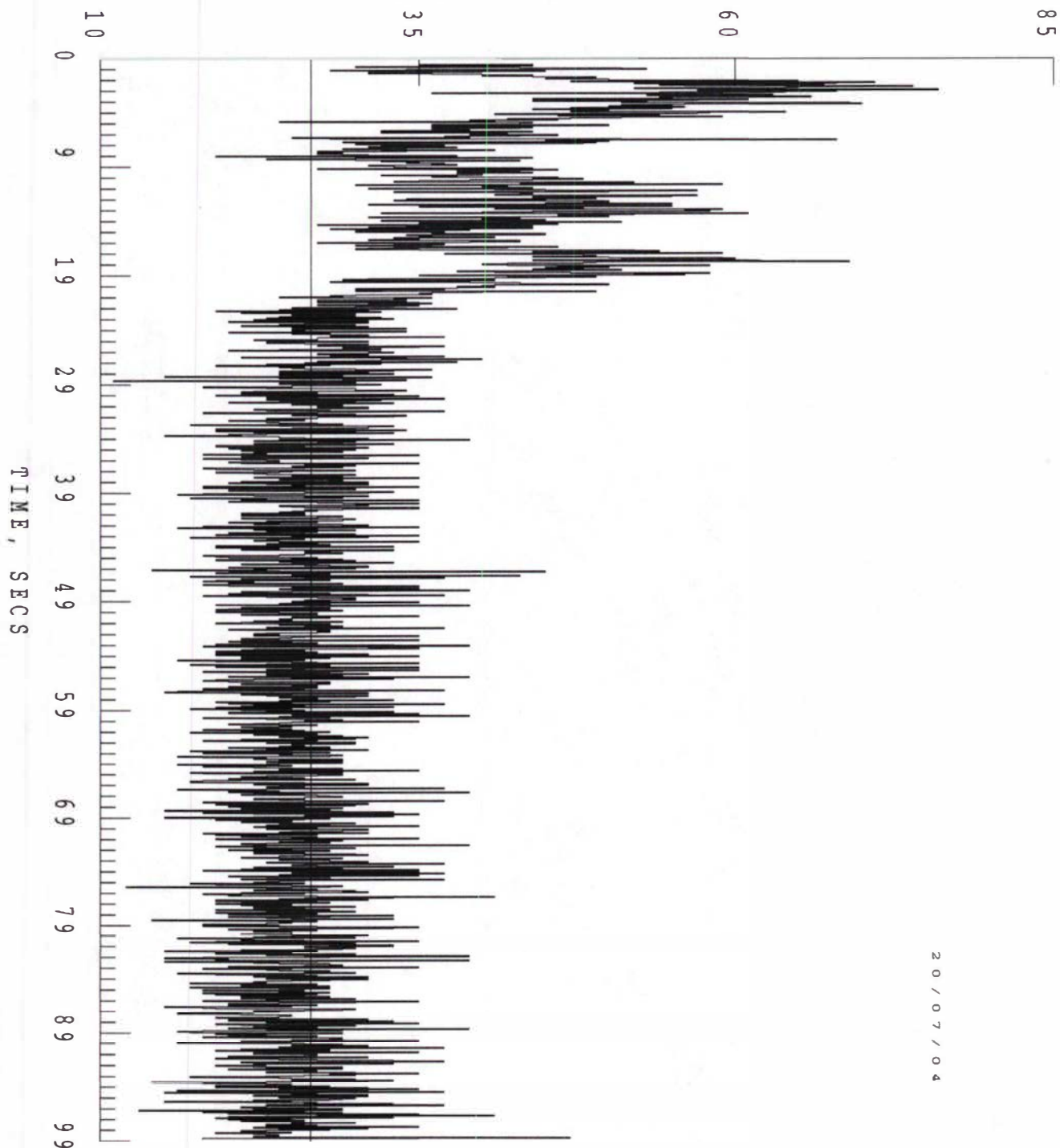
75409.090

50 - 200 keV

20:56:40

Prob solar
Not in any
Known list

COUNTS/0.064 S



20/07/04

KONUS HRES 20040719 75409

TRIGGER TIME: 19/07/04 DOY 201 Julian 2453207.37279 UT = 20.947 20:56:49 (75409.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

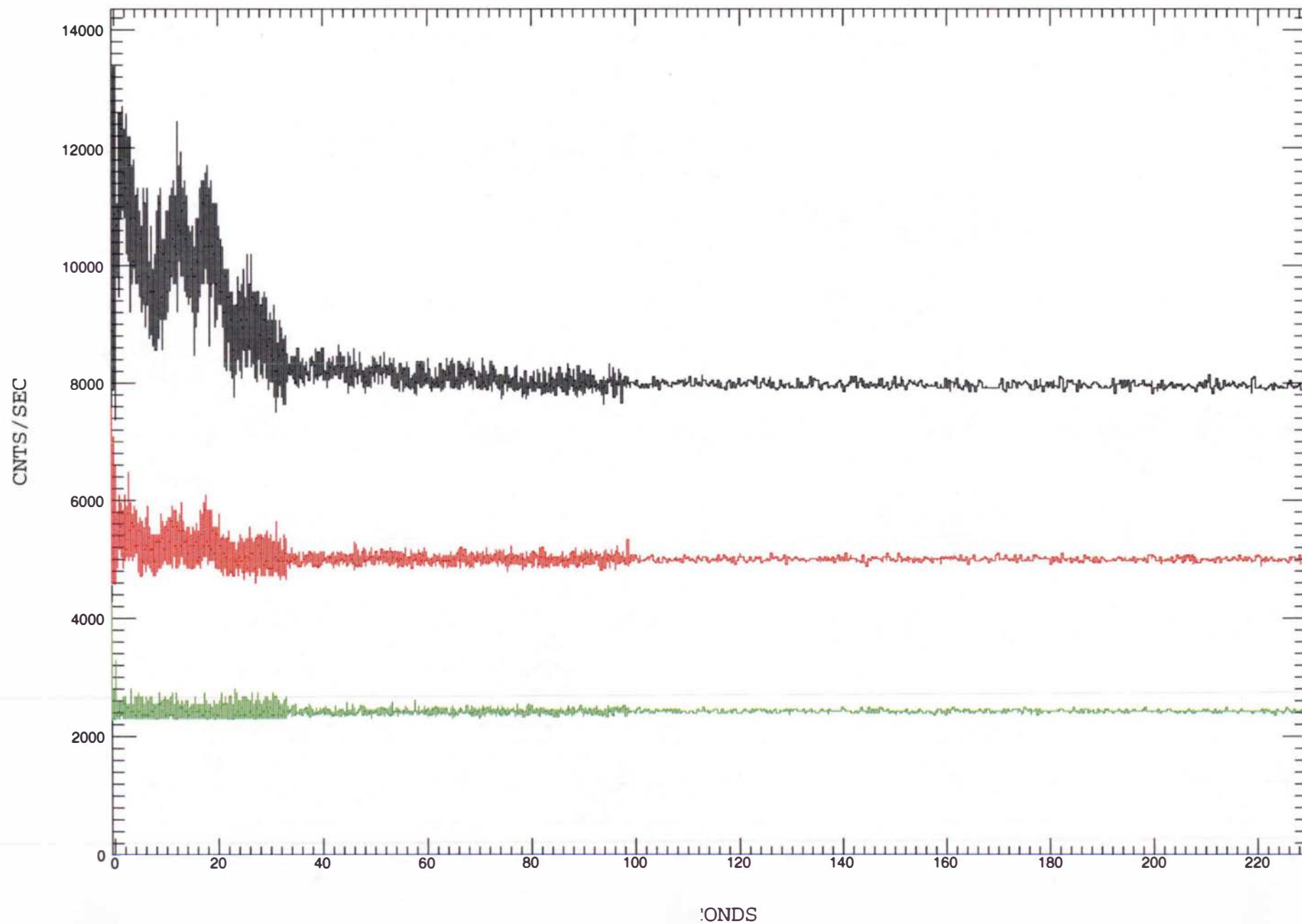
Chan 4 : [> 10 MeV]

Channel 1 + 6900

Channel 2 + 4600

Channel 3 + 2300

Channel 4 + 0



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20040719_75409)

BEG TIME: 19/07/04 DOY 201 Julian 2453207.37042 UT = 20.890 20:53:24 (75204.000 secs) [sct = 0019 9d3e c0bd 6dd4]
 END TIME: 19/07/04 DOY 201 Julian 2453207.37500 UT = 21.000 21:00:00 (75600.000 secs) [sct = 0019 9d3e d857 ea27]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

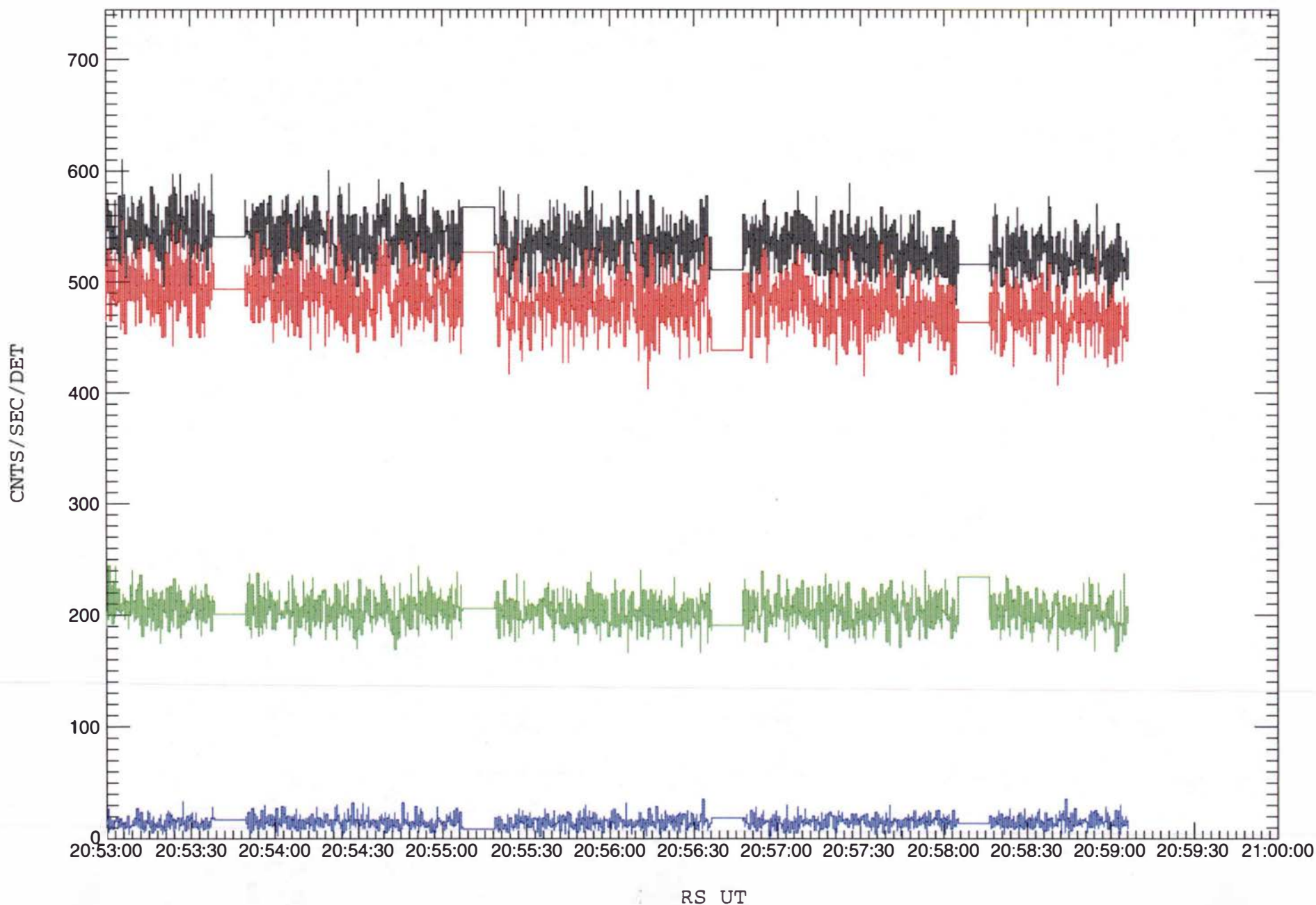
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



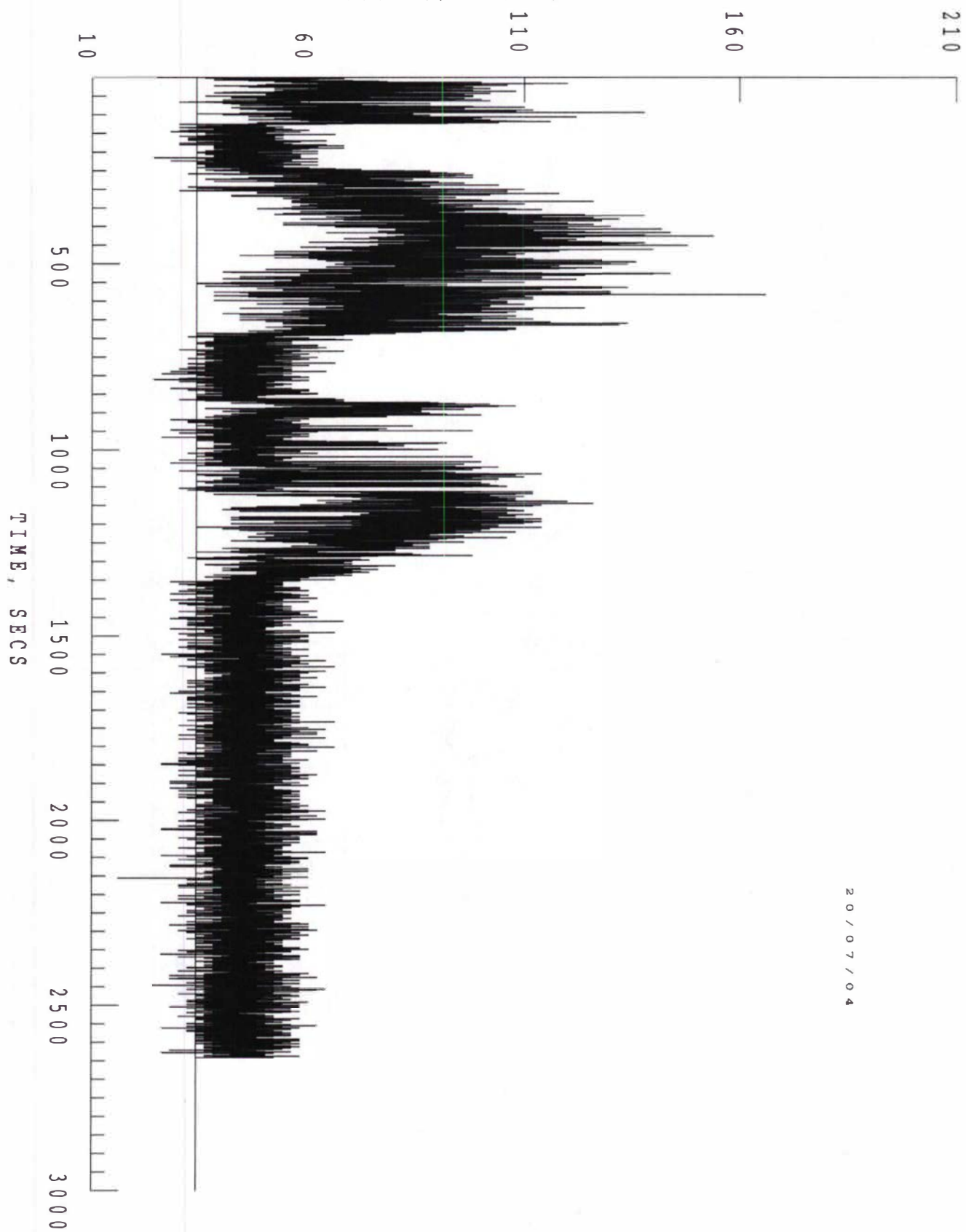
MS01

19/07/04

74076.998

50 - 3000 keV

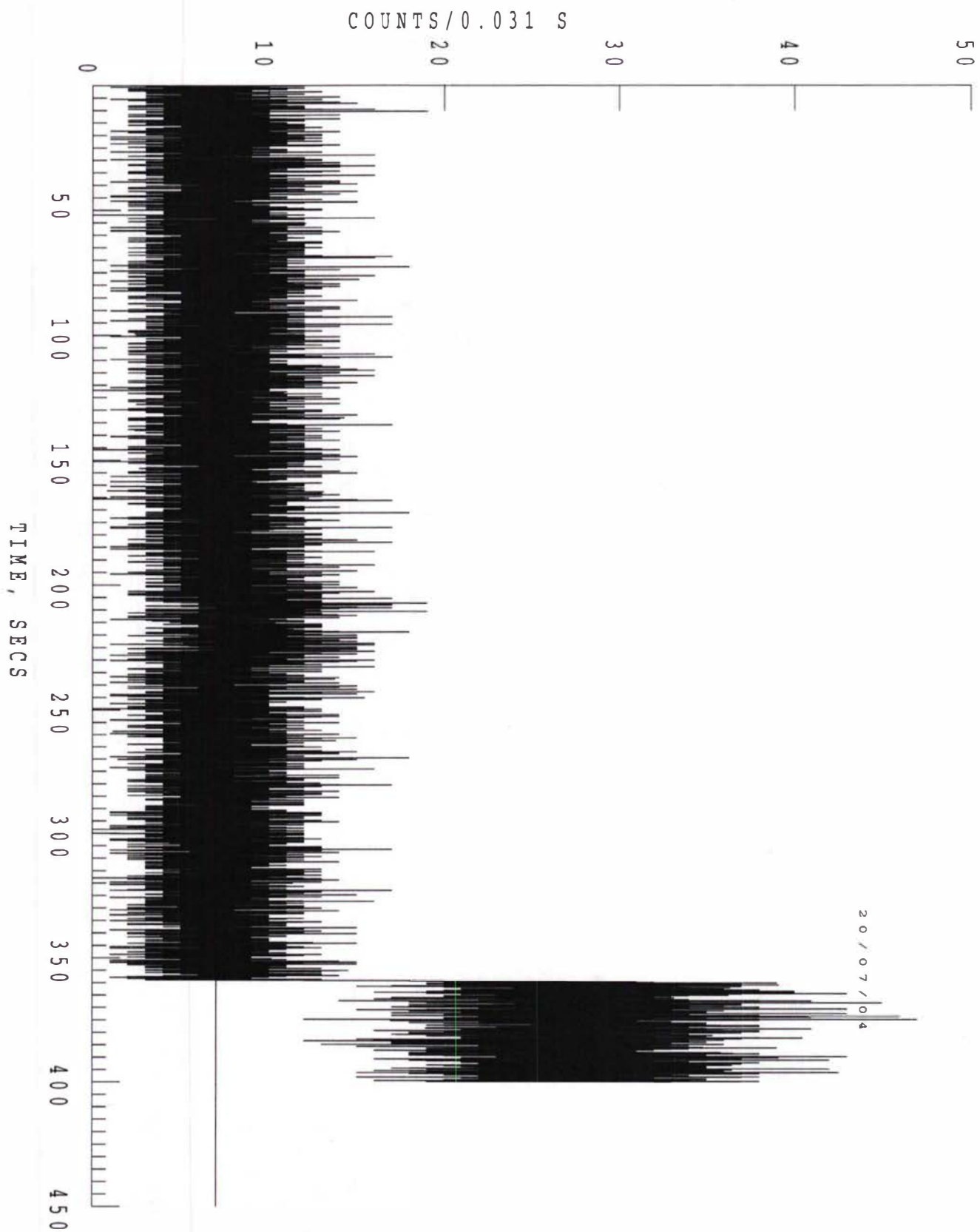
COUNTS/0.250 S

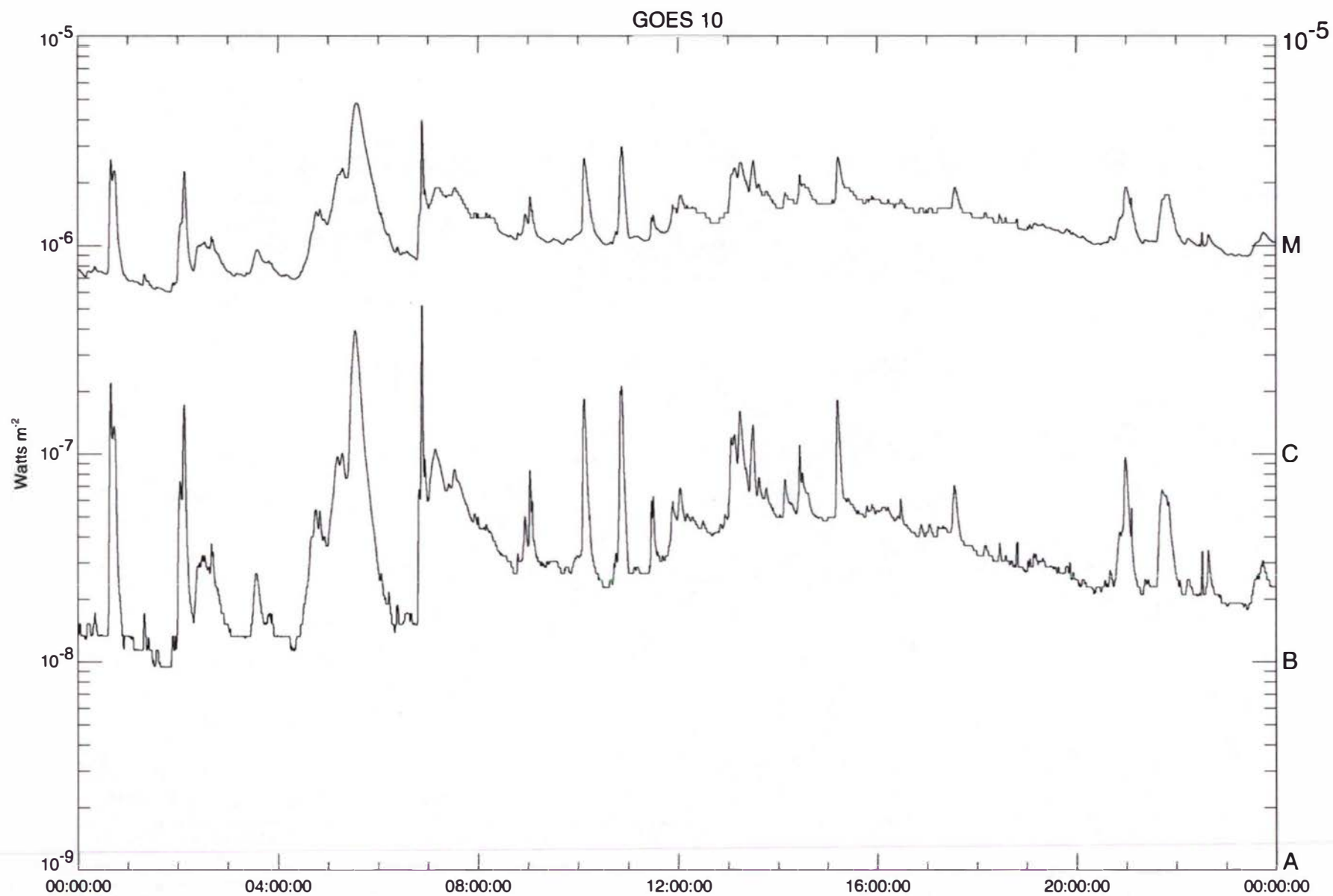


HESSI

19/07/04 75209.000 (KONUS2_20040719_75409)

25- 150 keV





Data Start: 04/07/19, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/20, 0828

Sample average = 10

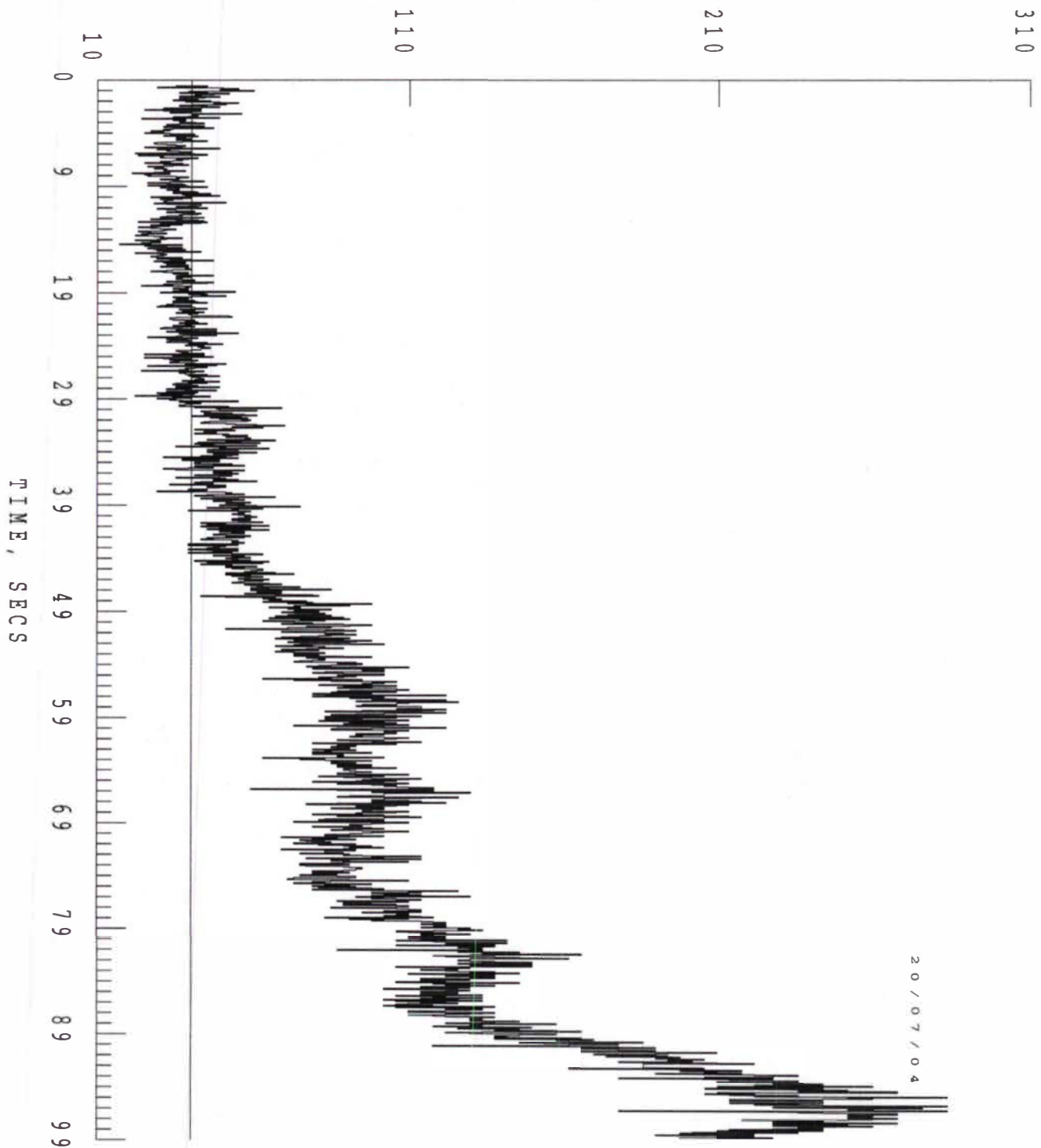
KONUS2

20/07/04

44781.490

50- 200 keV

COUNTS/0.064 S



KONUS HRES 20040720 44781

TRIGGER TIME: 20/07/04 DOY 202 Julian 2453208.01830 UT = 12.439 12:26:21 (44781.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

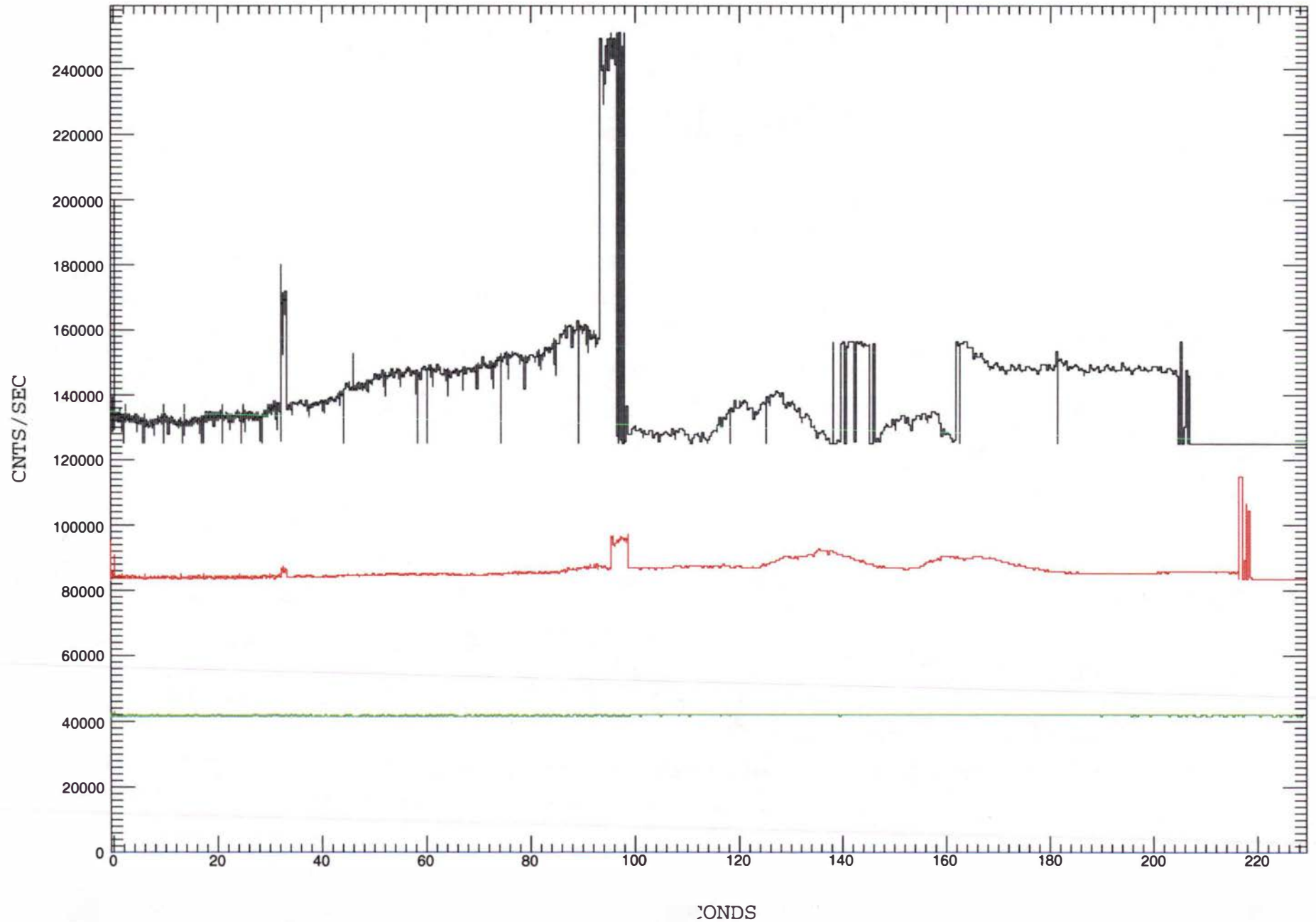
Chan 4 : [> 10 MeV]

Channel 1 + 125100

Channel 2 + 83400

Channel 3 + 41700

Channel 4 + 0



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20040720_44781)

BEG TIME: 20/07/04 DOY 202 Julian 2453208.01583 UT = 12.380 12:22:48 (44568.000 secs) [sct = 0019 9d4b bc89 44eb]
 END TIME: 20/07/04 DOY 202 Julian 2453208.02042 UT = 12.490 12:29:24 (44964.000 secs) [sct = 0019 9d4b d423 c13d]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

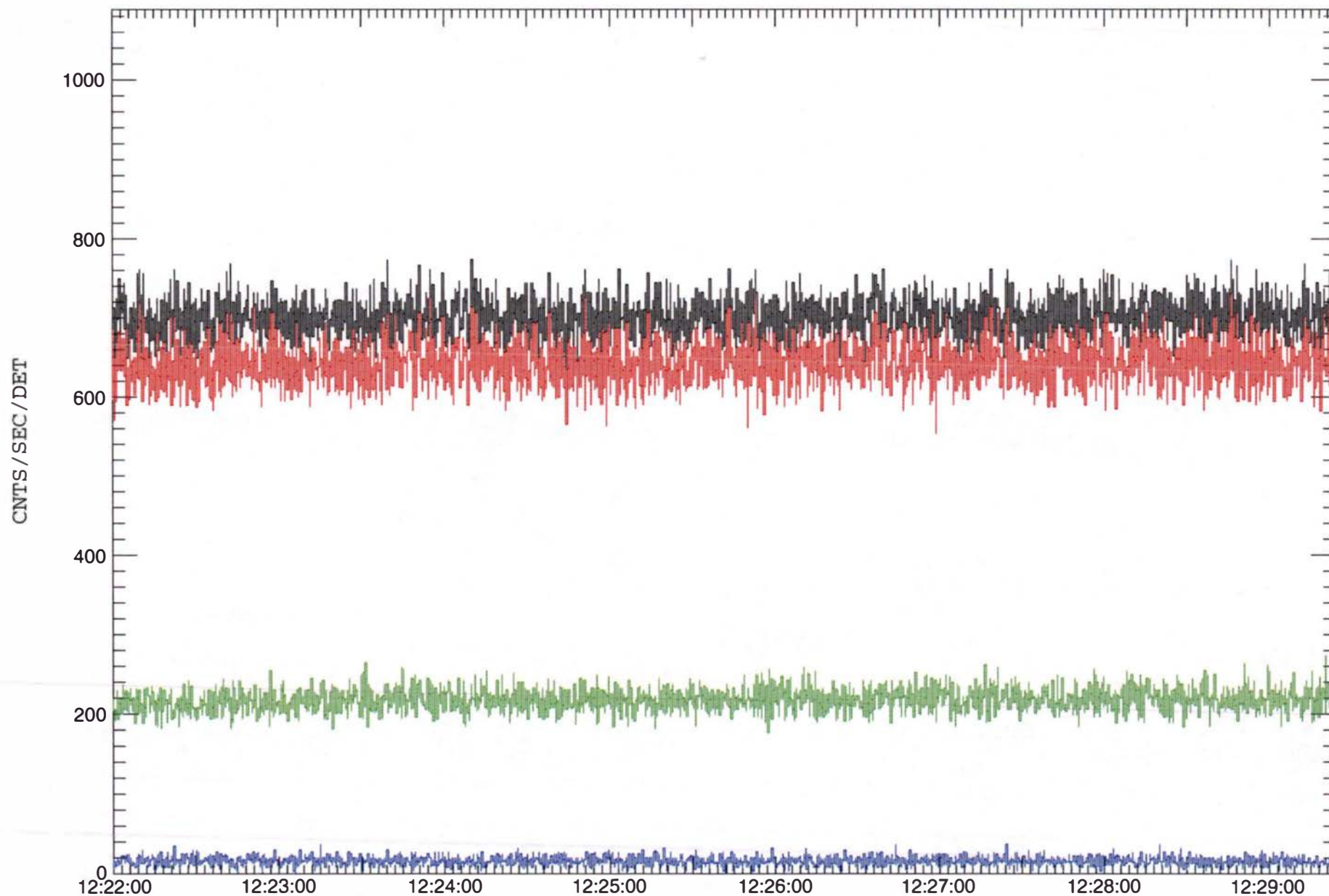
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

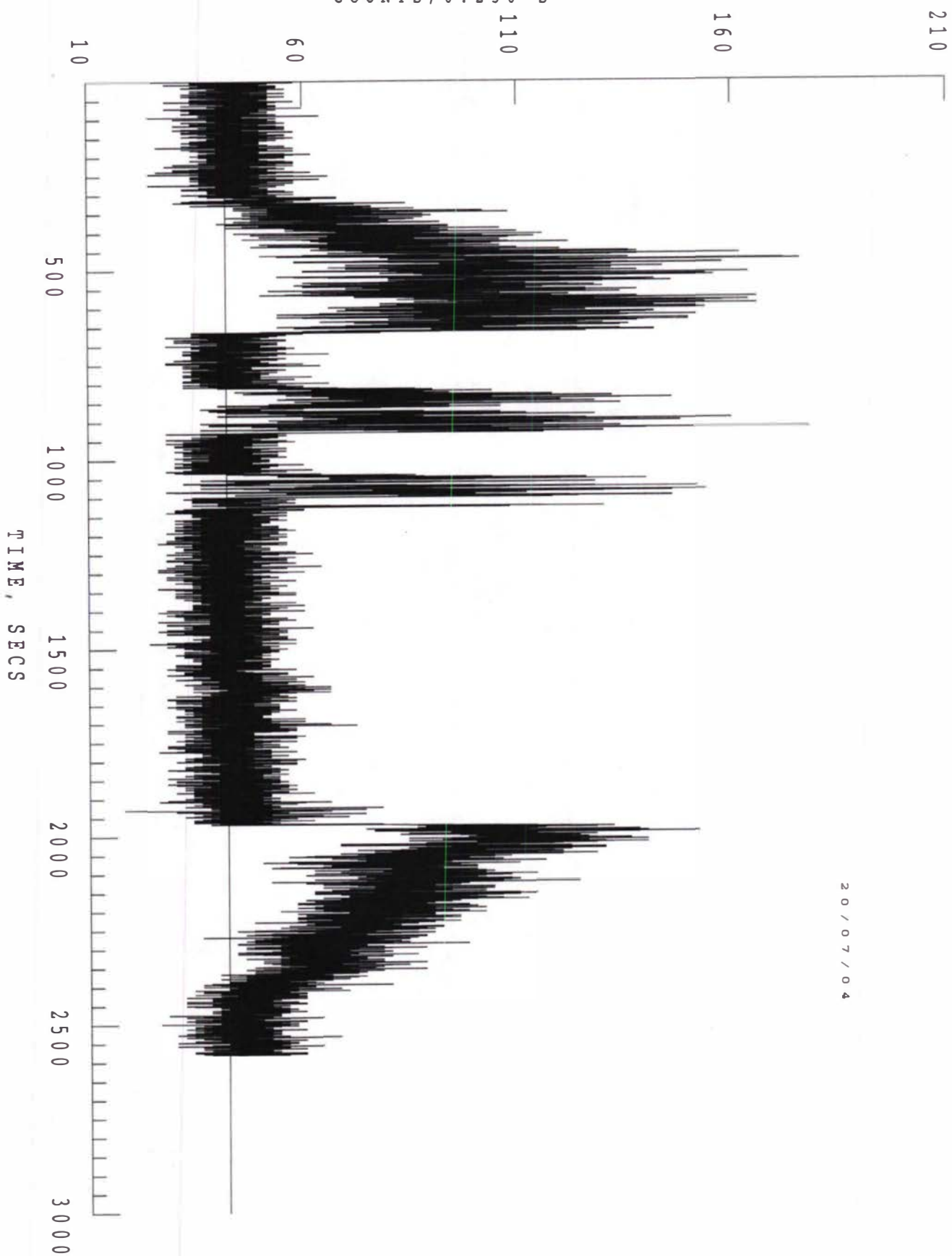
MS01

20/07/04

43475.960

50 - 3000 keV

COUNTS/0.250 S

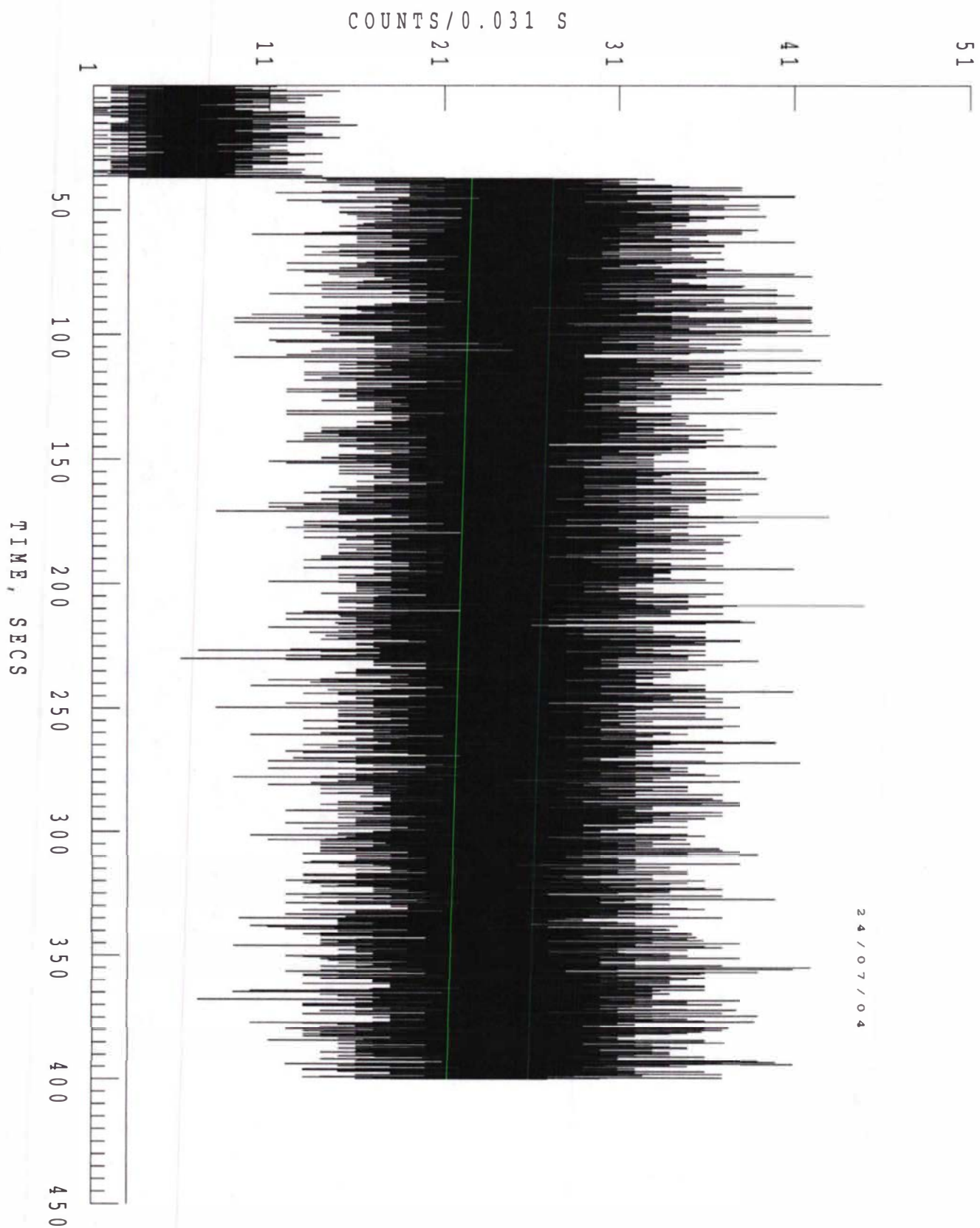


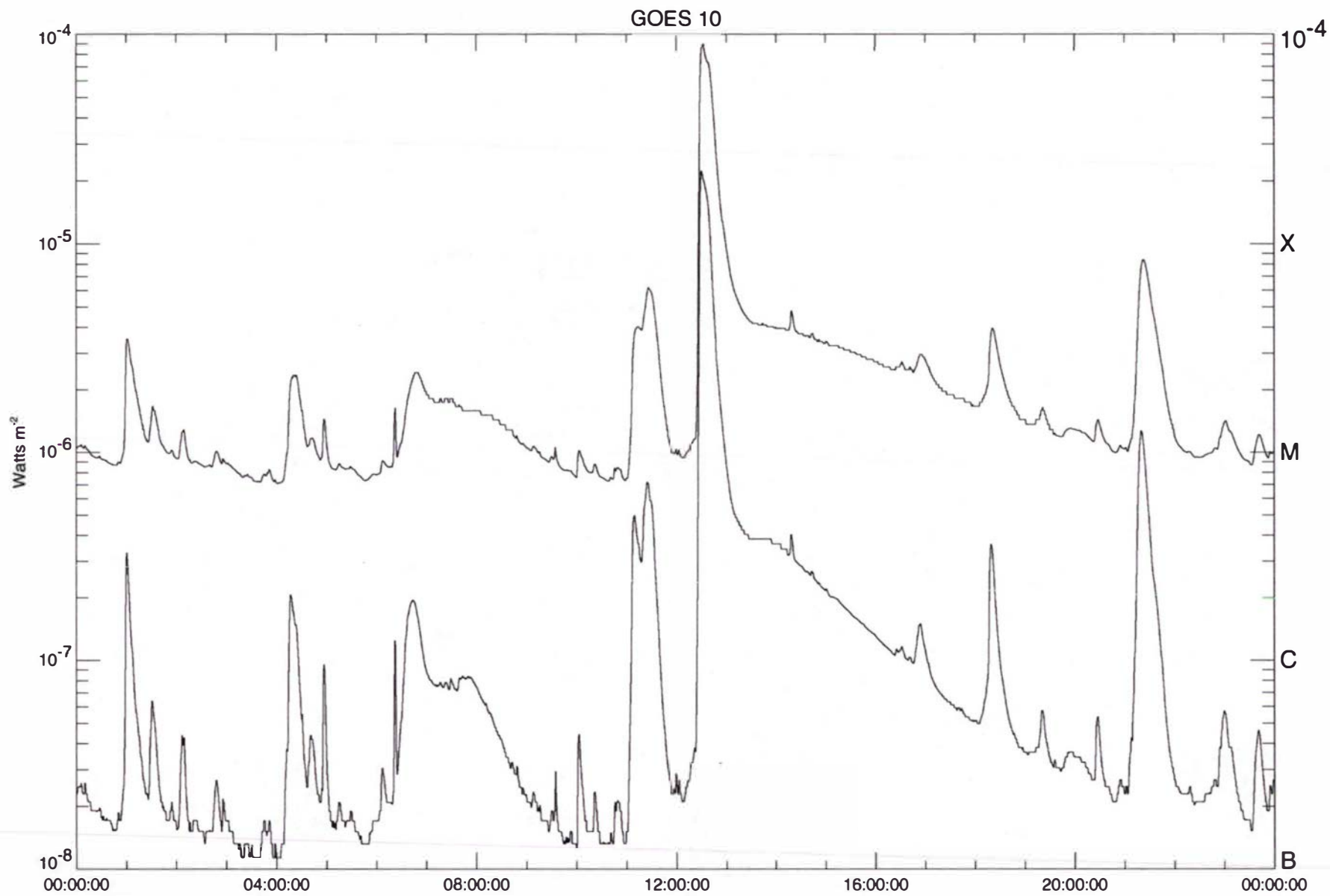
20/07/04

HESSI

20/07/04 44581.000 (KONUS2_20040720_44781)

25 - 150 keV





Data Start: 04/07/20, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/21, 0828

Sample average = 10

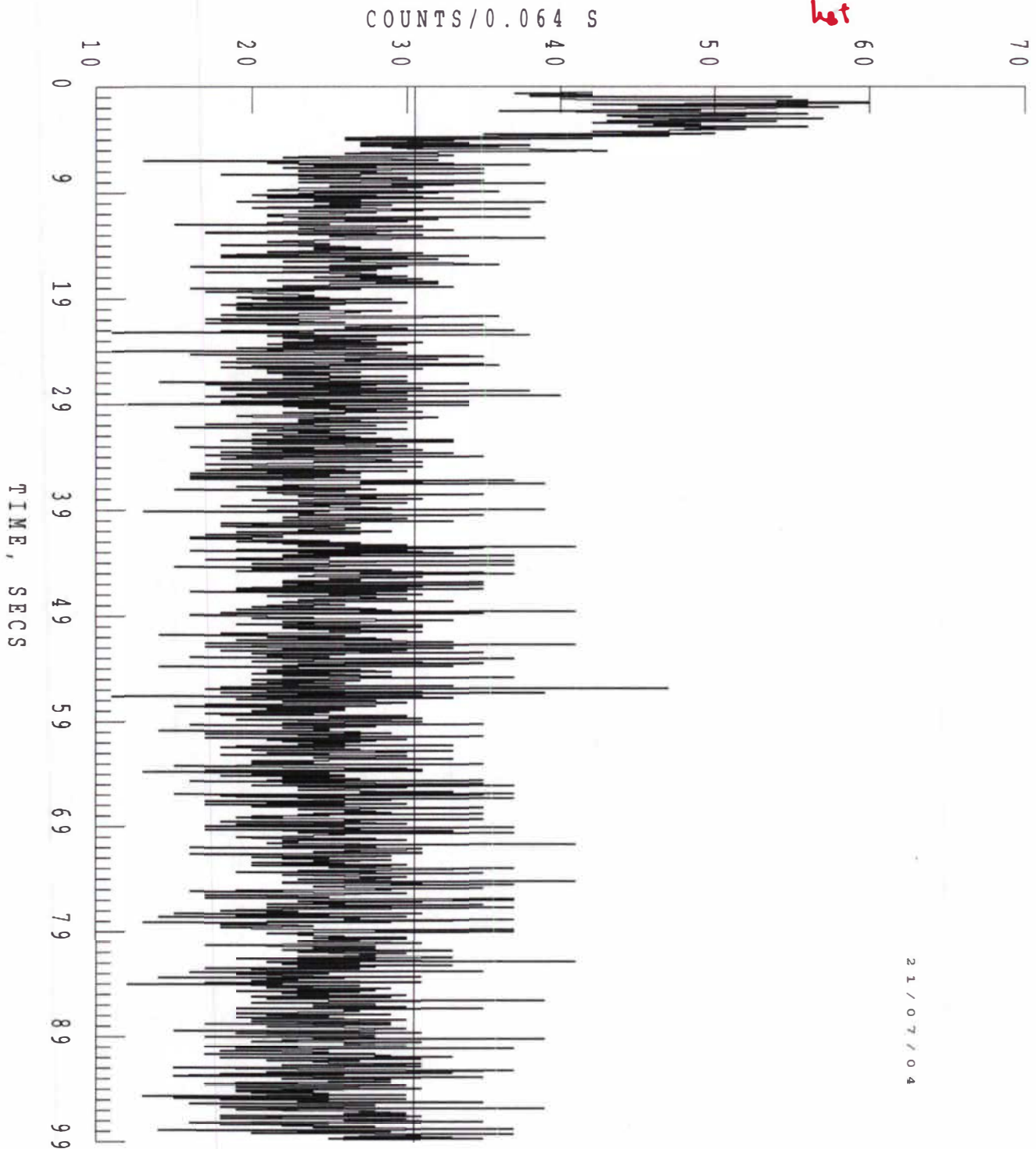
KONUS2

21/07/04

1957.215

50 - 200 keV

Solar according
to RHESSI
Not in either Konus
hot



KONUS HRES 20040721 01957

TRIGGER TIME: 21/07/04 DOY 203 Julian 2453208.52265 UT = 00.544 00:32:37 (01957.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

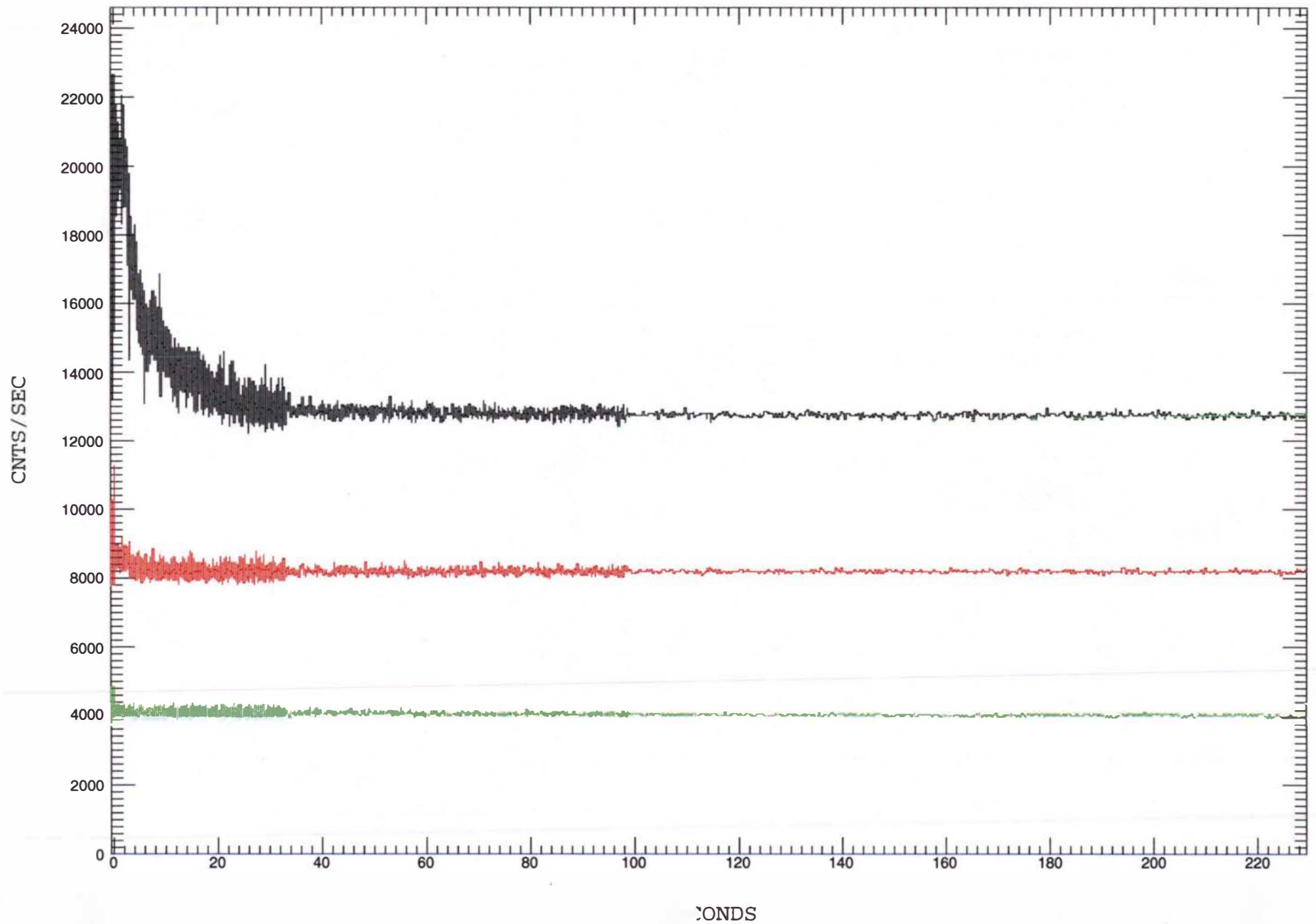
Chan 4 : [> 10 MeV]

Channel 1 + 11700

Channel 2 + 7800

Channel 3 + 3900

Channel 4 + 0



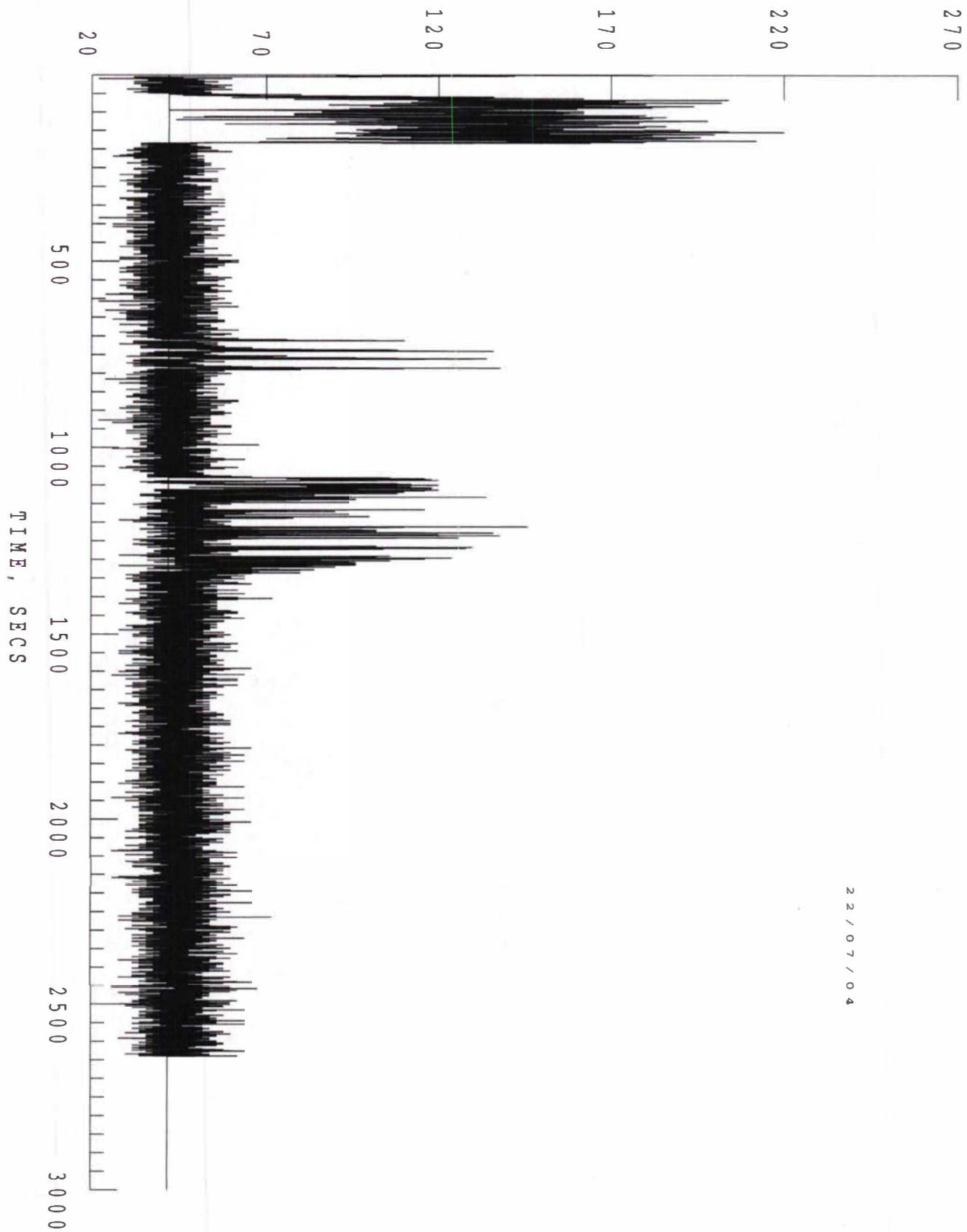
MS01

21/07/04

635.161

50 - 3000 keV

COUNTS/0.250 S

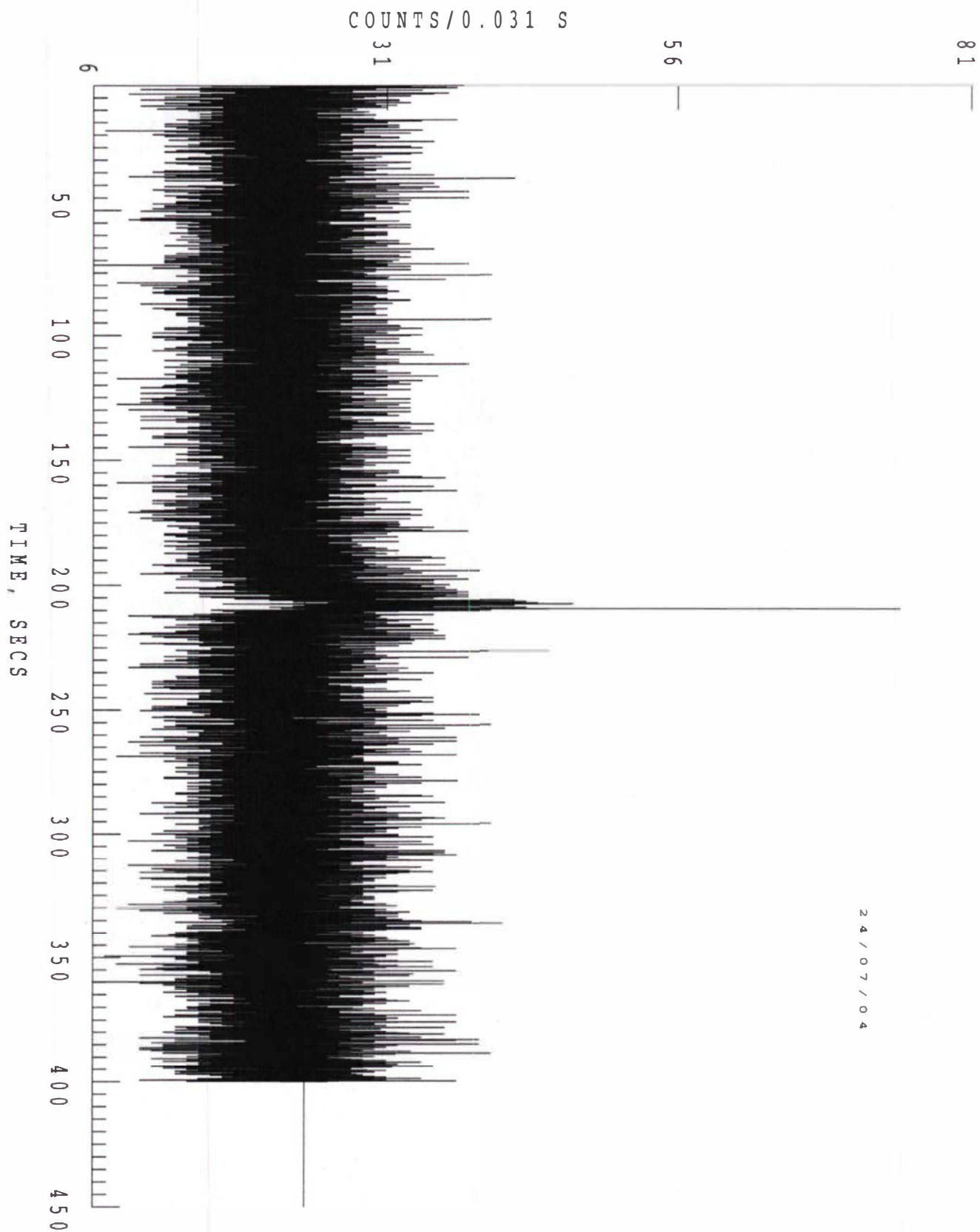


22/07/04

HESSI

21/07/04 1757.000 (KONUS2_20040721_01957)

25- 150 keV



KONUS2

21/07/04

18889.431

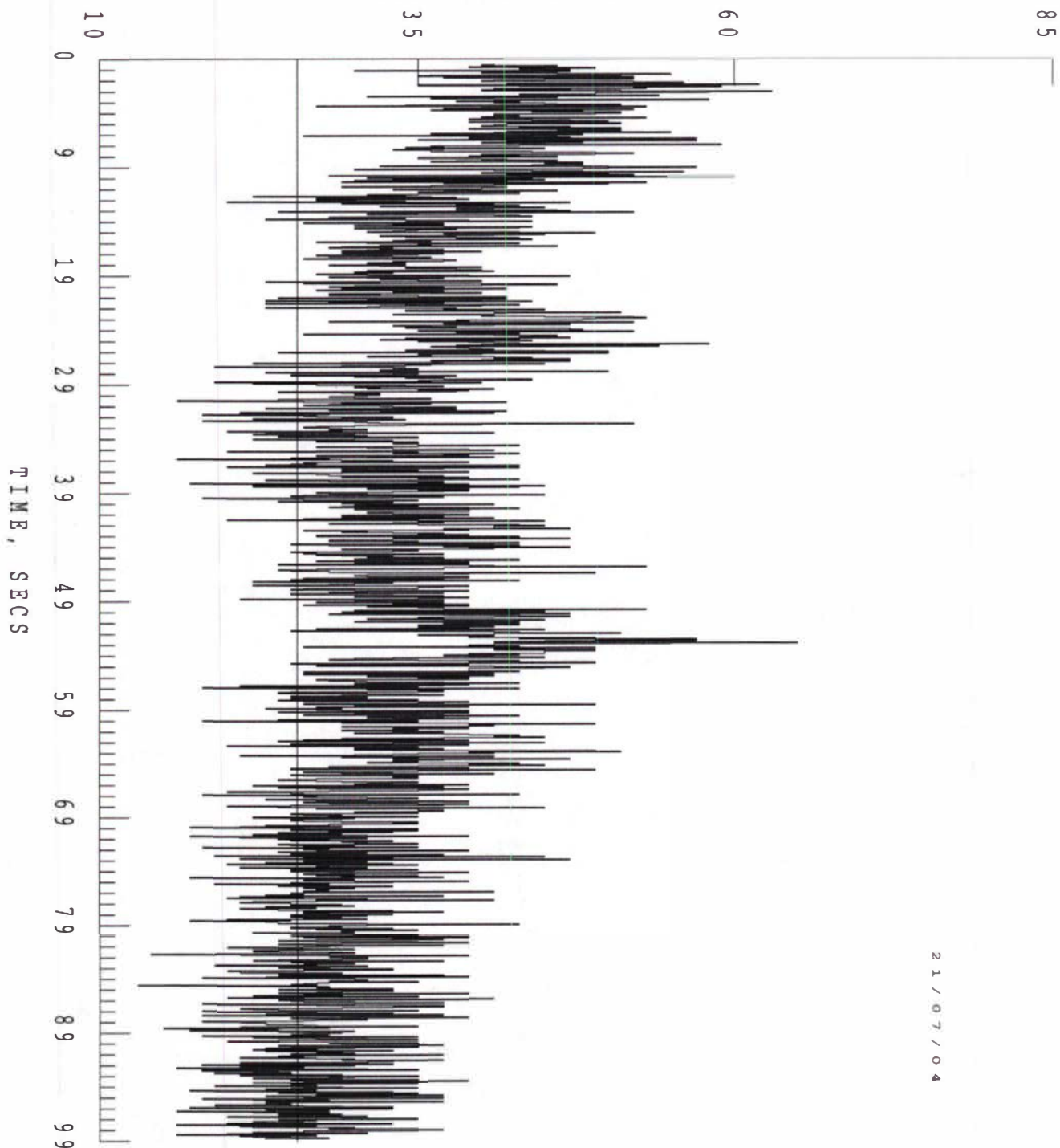
50 - 200 keV

05:14:49

Solar according
to RHESSI

Not in either
Konus list

COUNTS/0.064 S



21/07/04

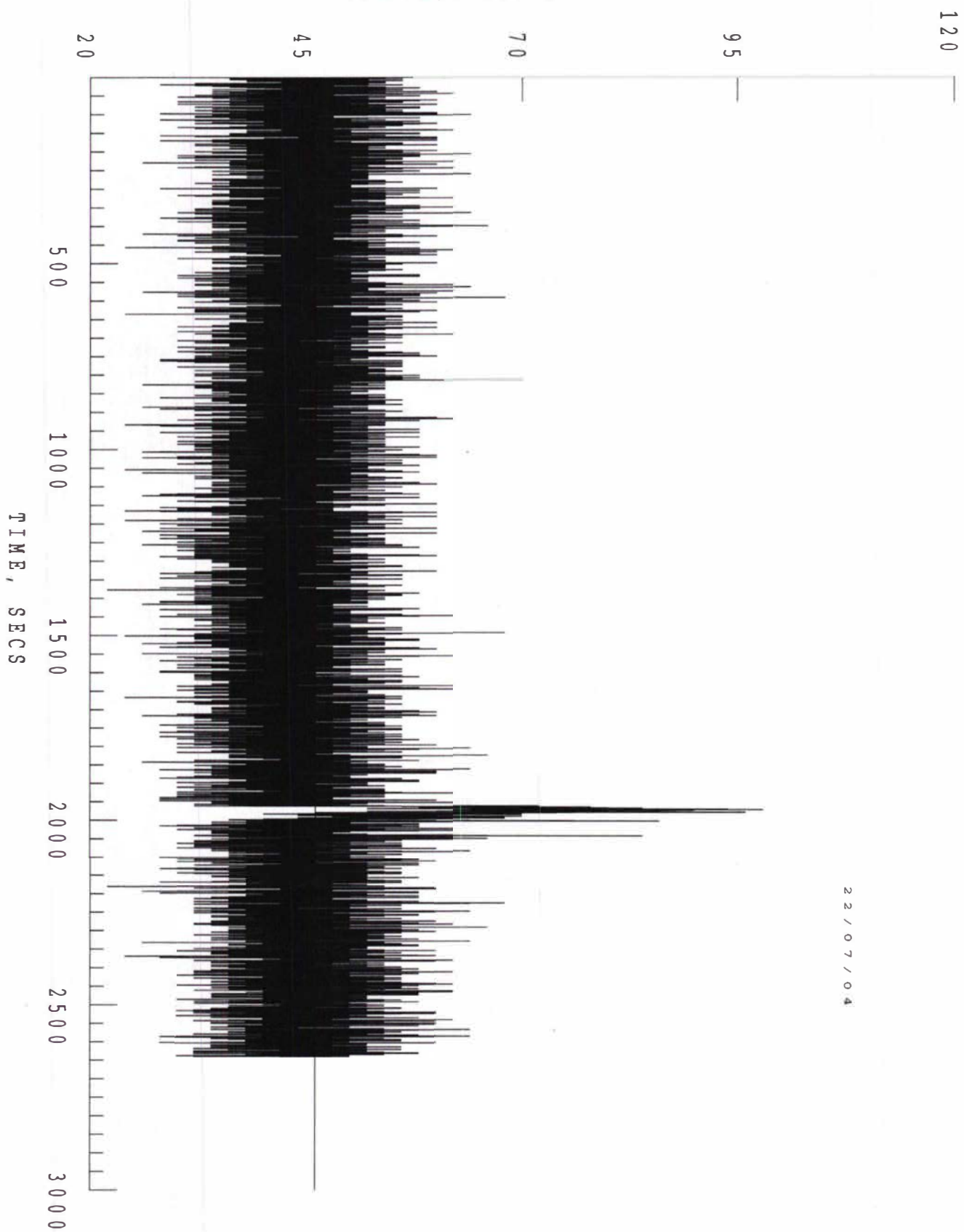
MS01

21/07/04

17554.848

50 - 3000 keV

COUNTS/0.250 S



KONUS HRES 20040721 18889

TRIGGER TIME: 21/07/04 DOY 203 Julian 2453208.71862 UT = 05.247 05:14:49 (18889.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

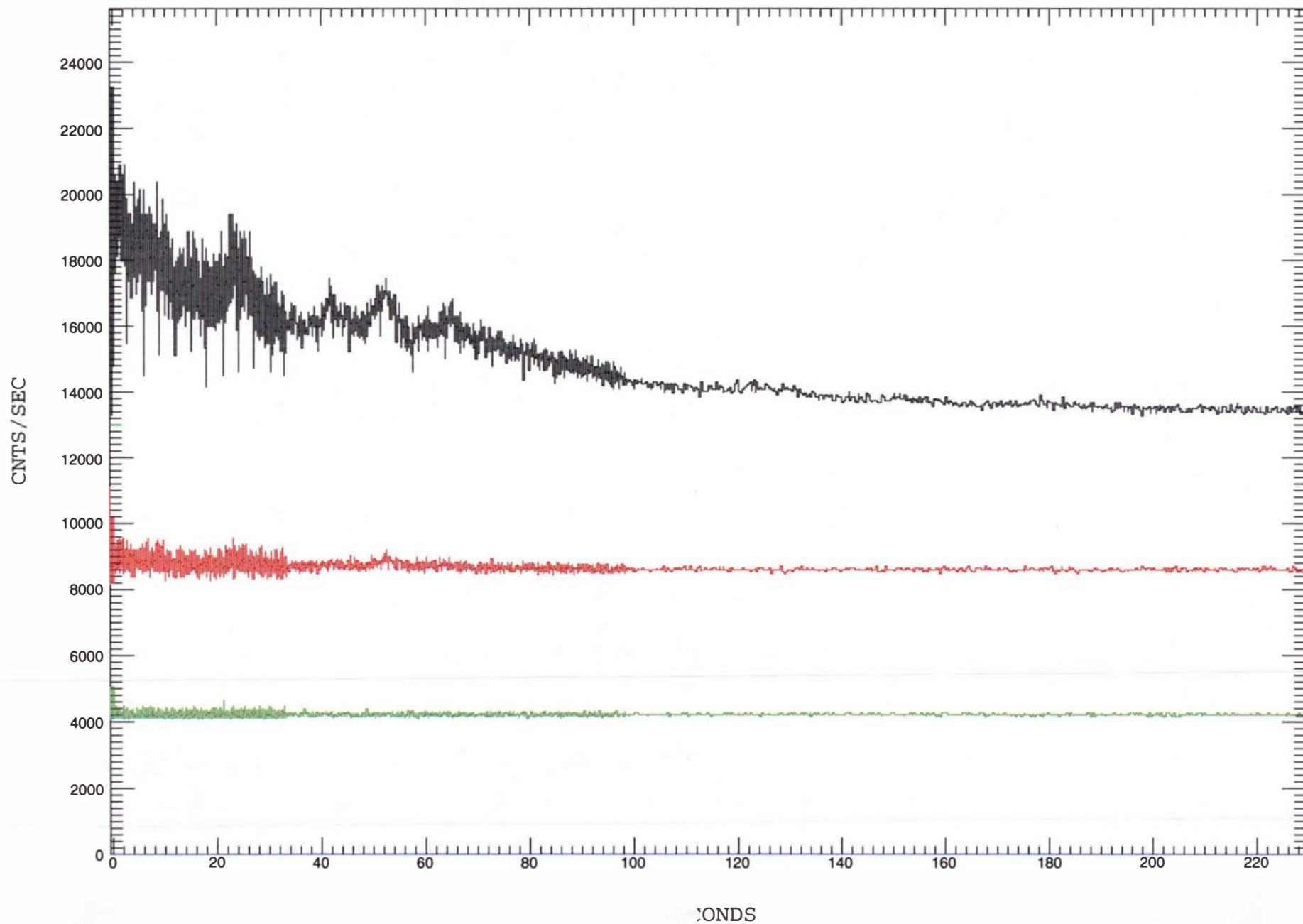
Chan 4 : [> 10 MeV]

Channel 1 + 12300

Channel 2 + 8200

Channel 3 + 4100

Channel 4 + 0

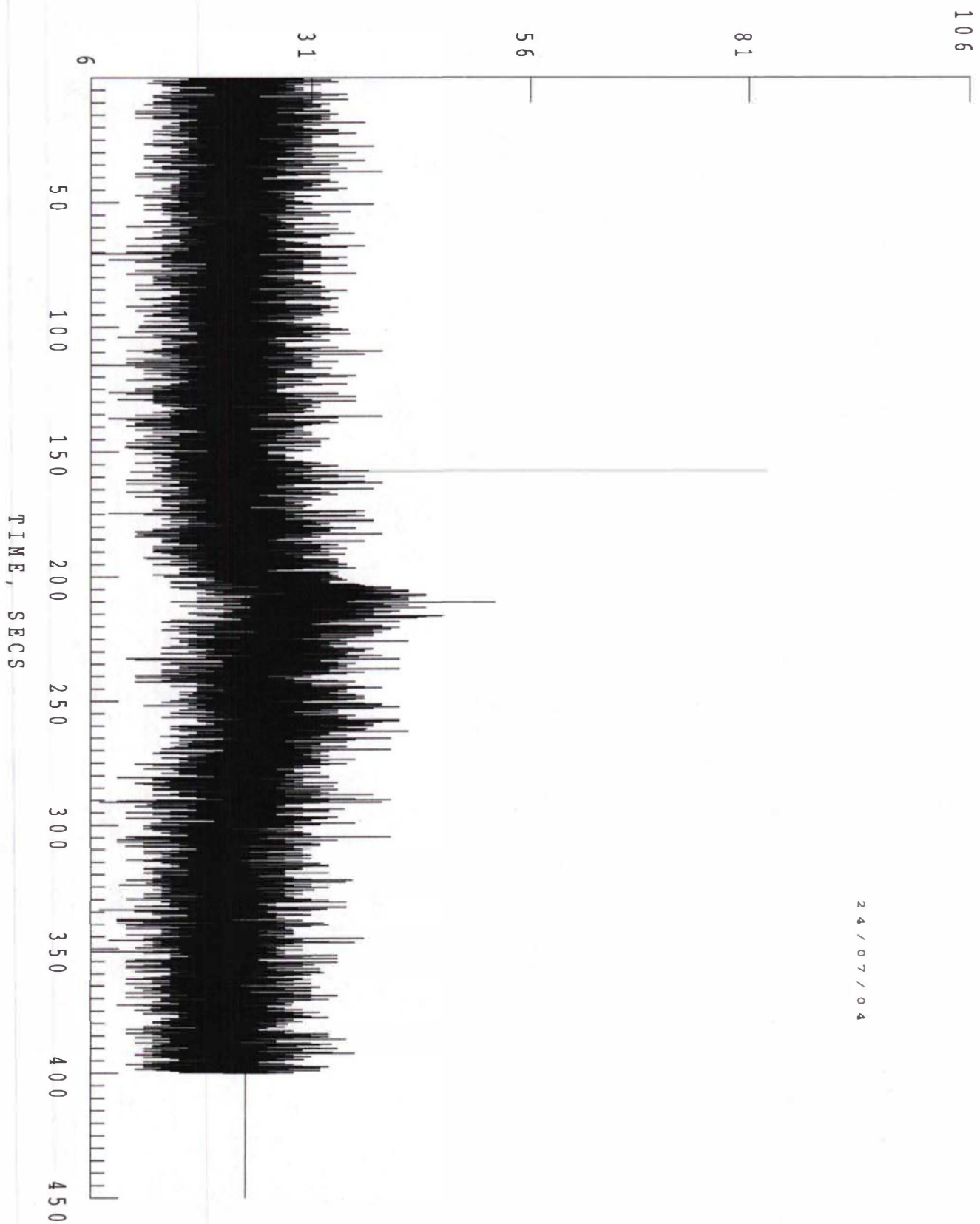


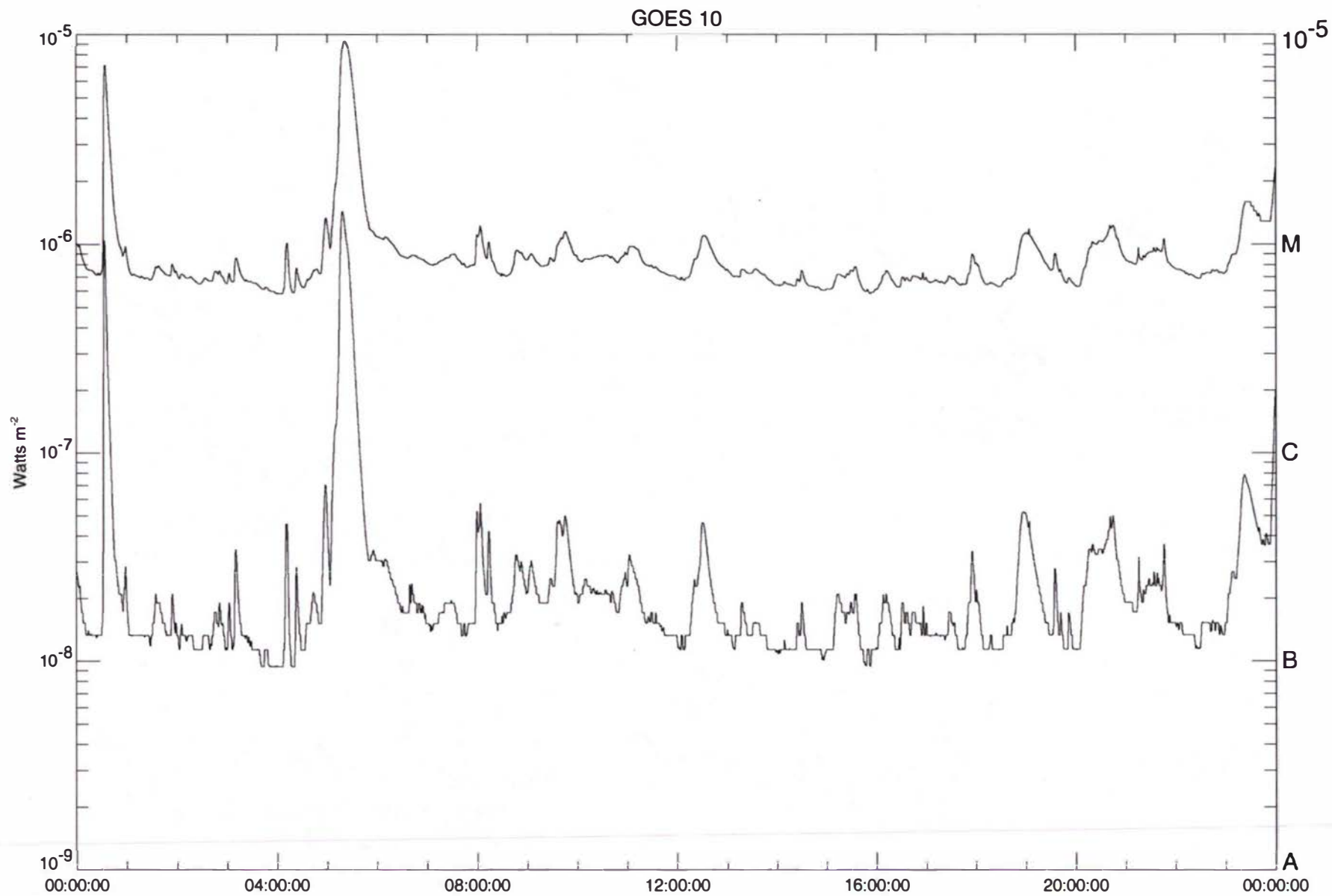
HESSI

21/07/04 18689.000 (KONUS2_20040721_18889)

25- 150 keV

COUNTS/0.031 S





Data Start: 04/07/21, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/22, 0828

Sample average = 10

KONUS2

22/07/04

1868.868

50 - 200 keV

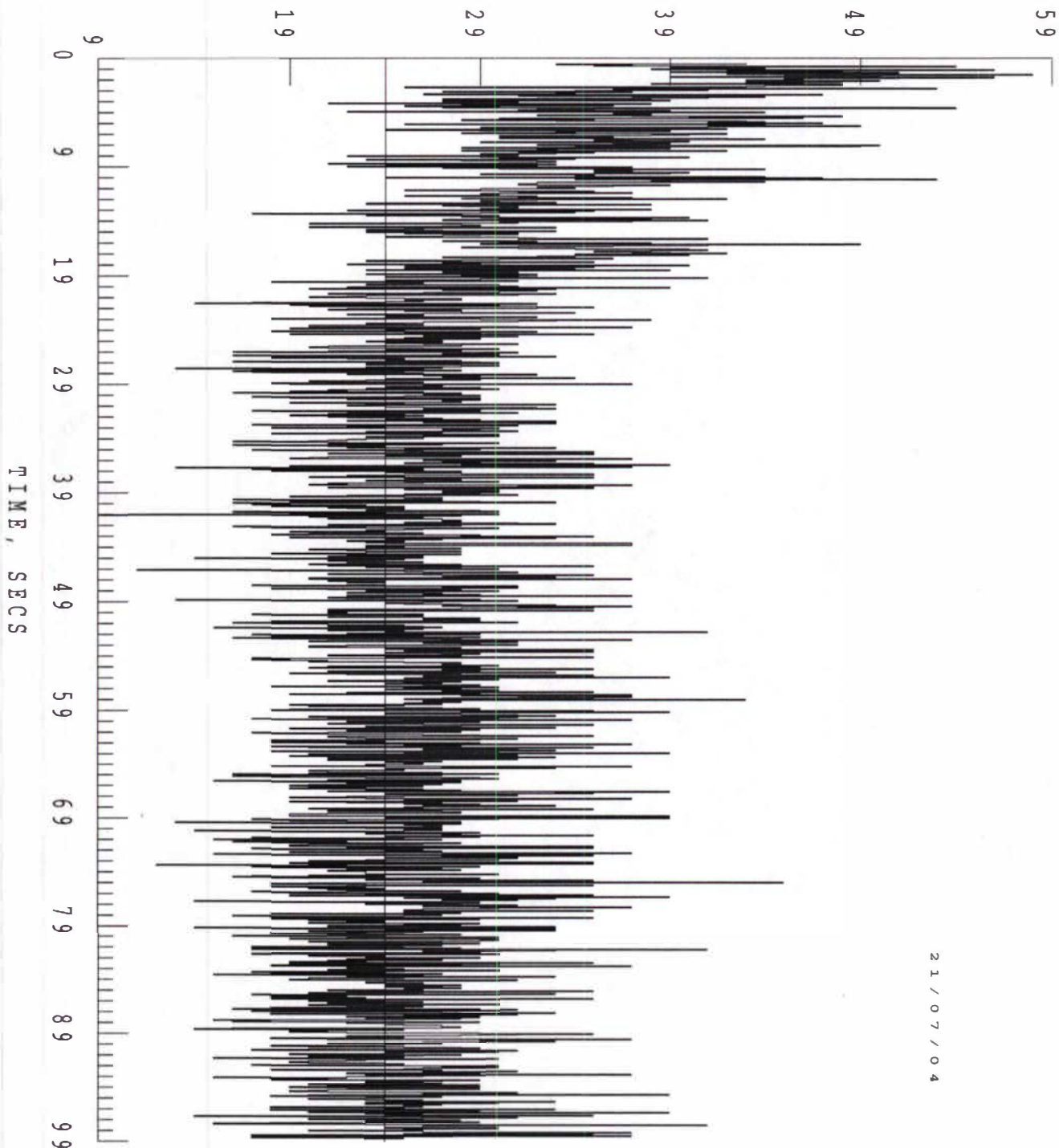
00:31:08

Prob solar

Not in either

Konus list

COUNTS/0.064 S



KONUS HRES 20040722 01867

TRIGGER TIME: 22/07/04 DOY 204 Julian 2453209.52162 UT = 00.519 00:31:07 (01868.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

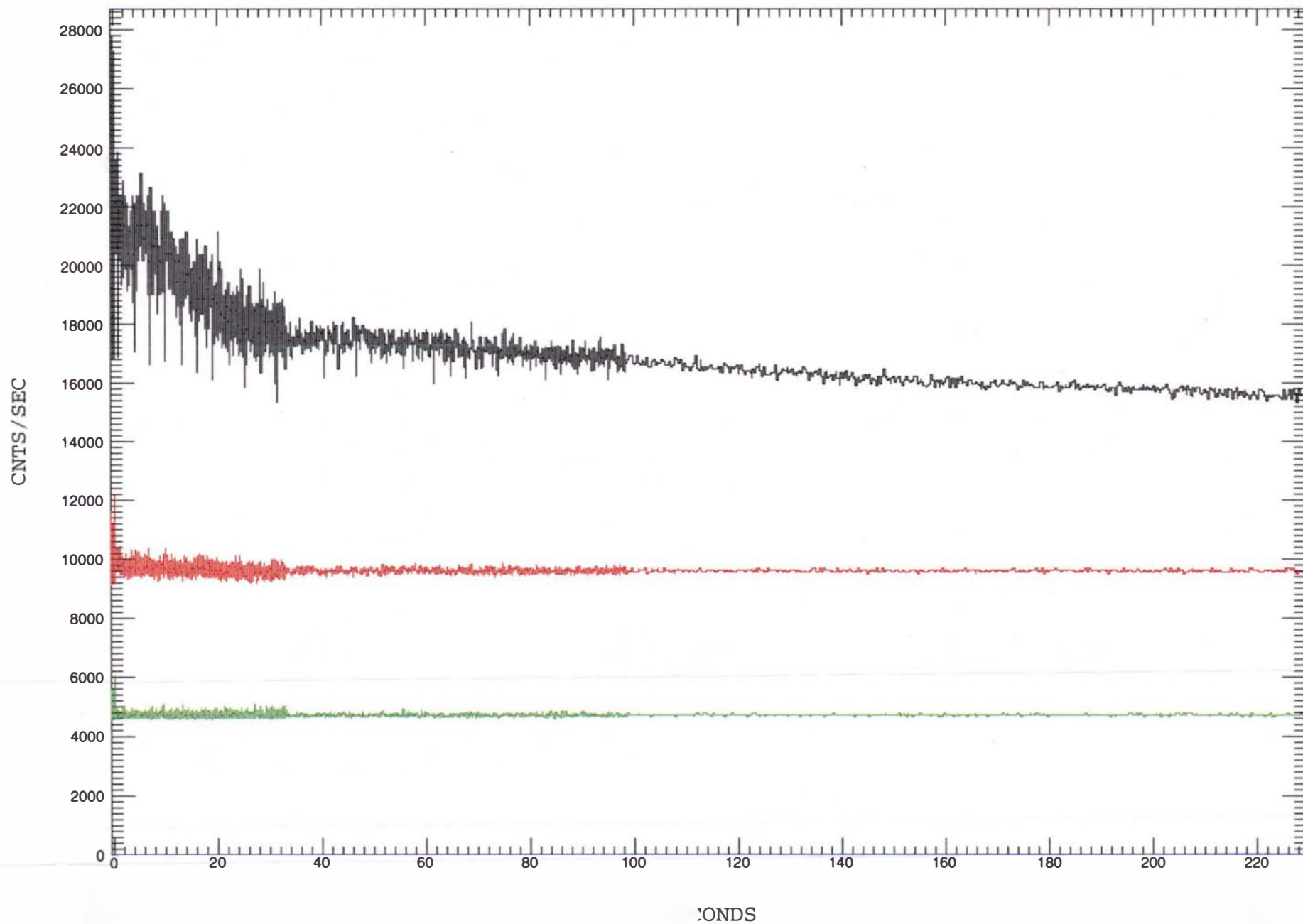
Chan 4 : [> 10 MeV]

Channel 1 + 13800

Channel 2 + 9200

Channel 3 + 4600

Channel 4 + 0



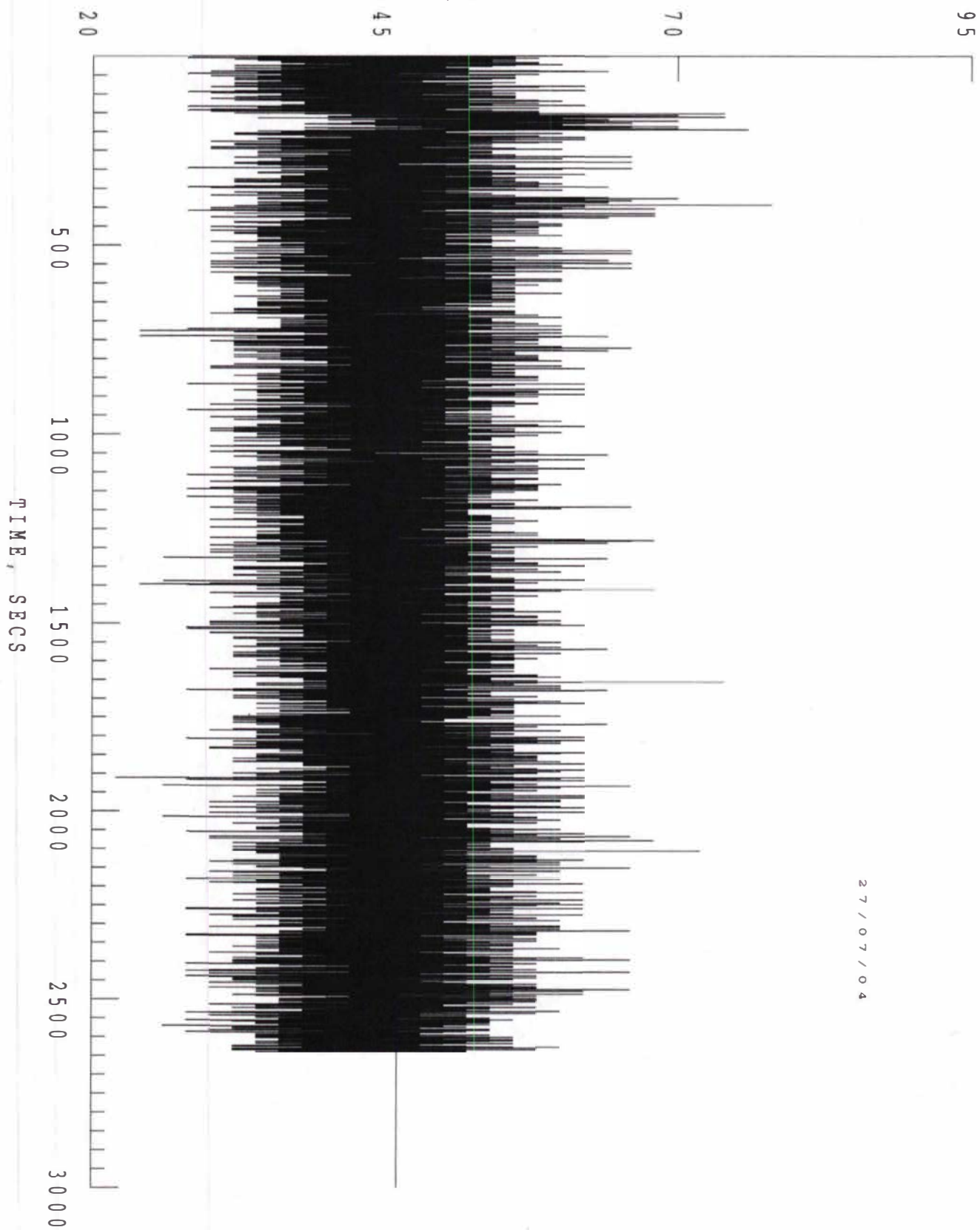
MS01

22/07/04

513.217

50 - 3000 keV

COUNTS/0.250 S

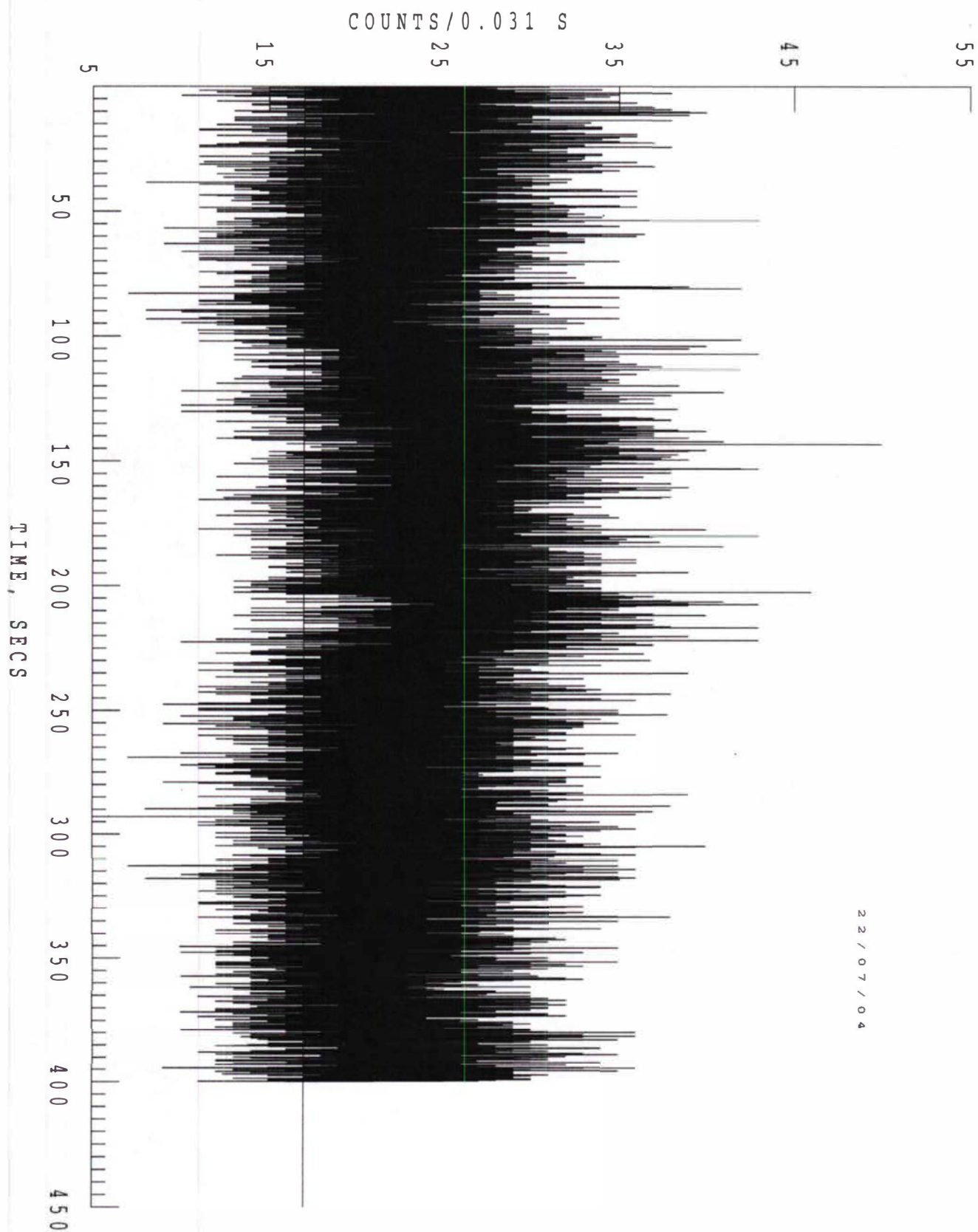


27/07/04

HESSI

22/07/04 1668.000 (KONUS2_20040722_01868)

25- 150 keV



KONUS2

22/07/04

27850.372

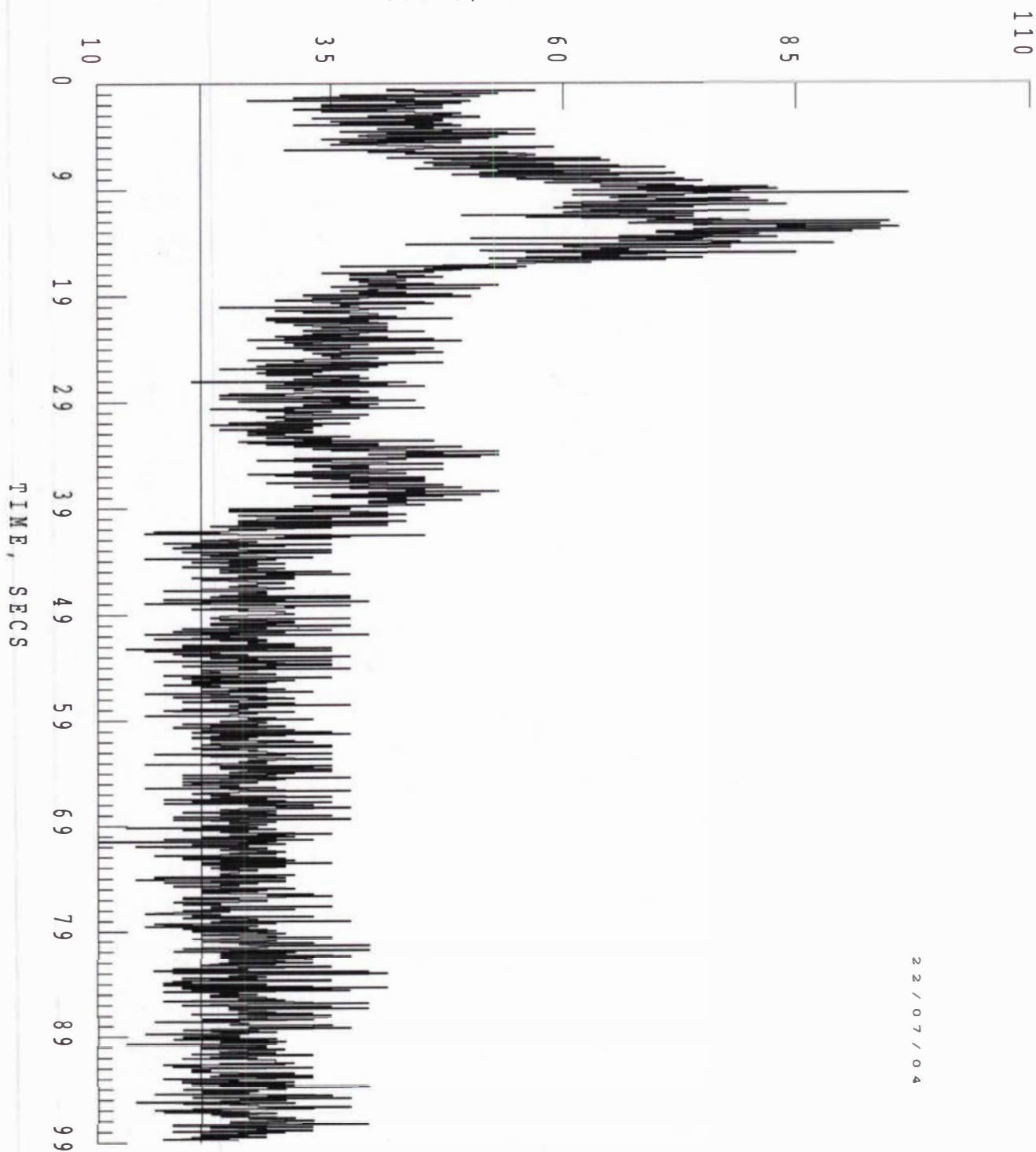
50 - 200 keV 07:44:10

Solar according
to RHESSI

Not in either

Konus list

COUNTS/0.064 S



KONUS HRES 20040722 27850

TRIGGER TIME: 22/07/04 DOY 204 Julian 2453209.82234 UT = 07.736 07:44:10 (27850.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

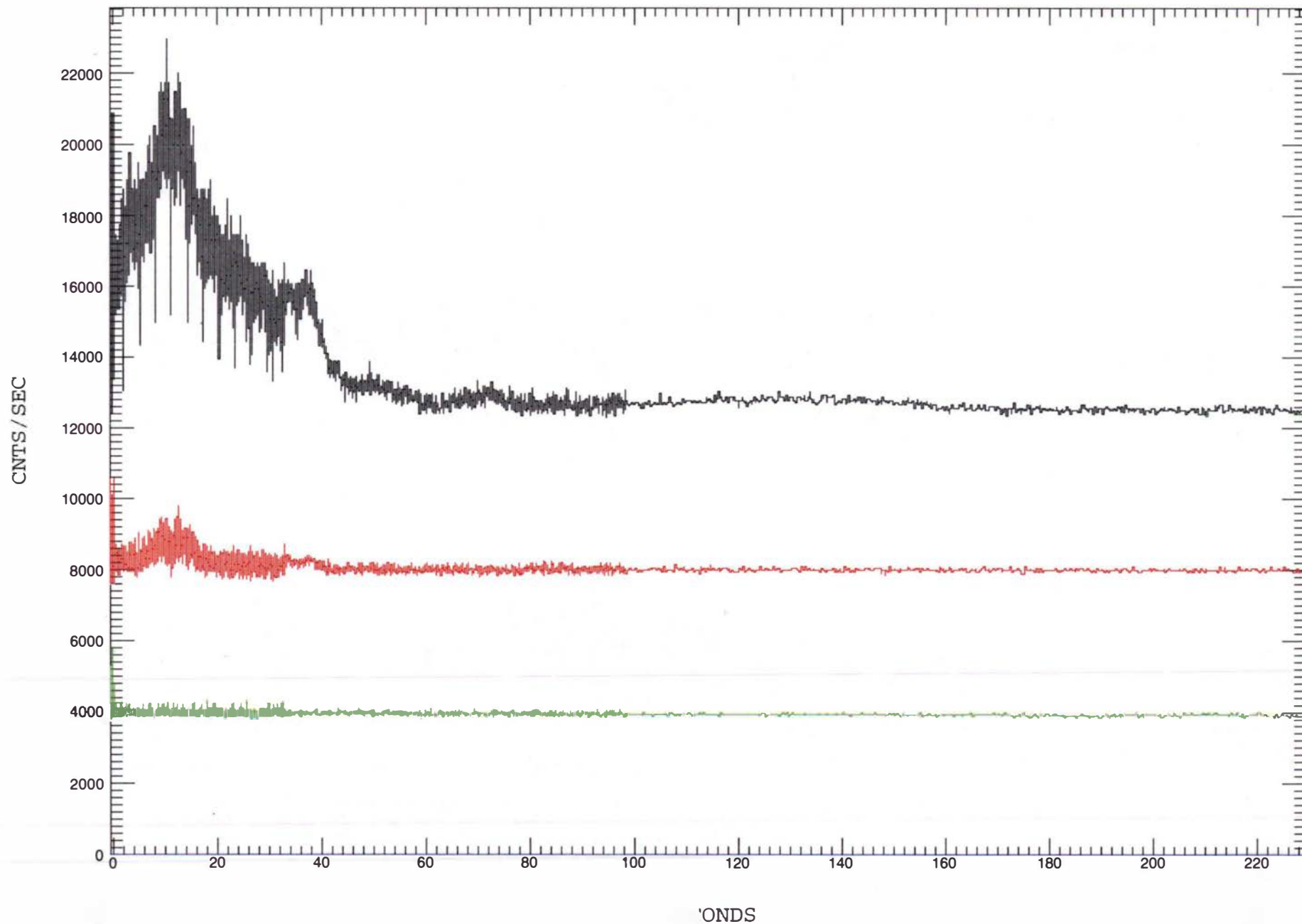
Chan 4 : [> 10 MeV]

Channel 1 + 11400

Channel 2 + 7600

Channel 3 + 3800

Channel 4 + 0



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTOR 4 (KONUS2_20040722_27850)

BEG TIME: 22/07/04 DOY 204 Julian 2453209.82000 UT = 07.680 07:40:48 (27648.000 secs) [sct = 0019 9d70 07b7 571b]
 END TIME: 22/07/04 DOY 204 Julian 2453209.82458 UT = 07.790 07:47:24 (28044.000 secs) [sct = 0019 9d70 1f51 d36e]

Chan 1:[E1=17 E2=103]

Chan 2:[E3=17 E4=77]

Chan 3:[E5=19 E6=504]

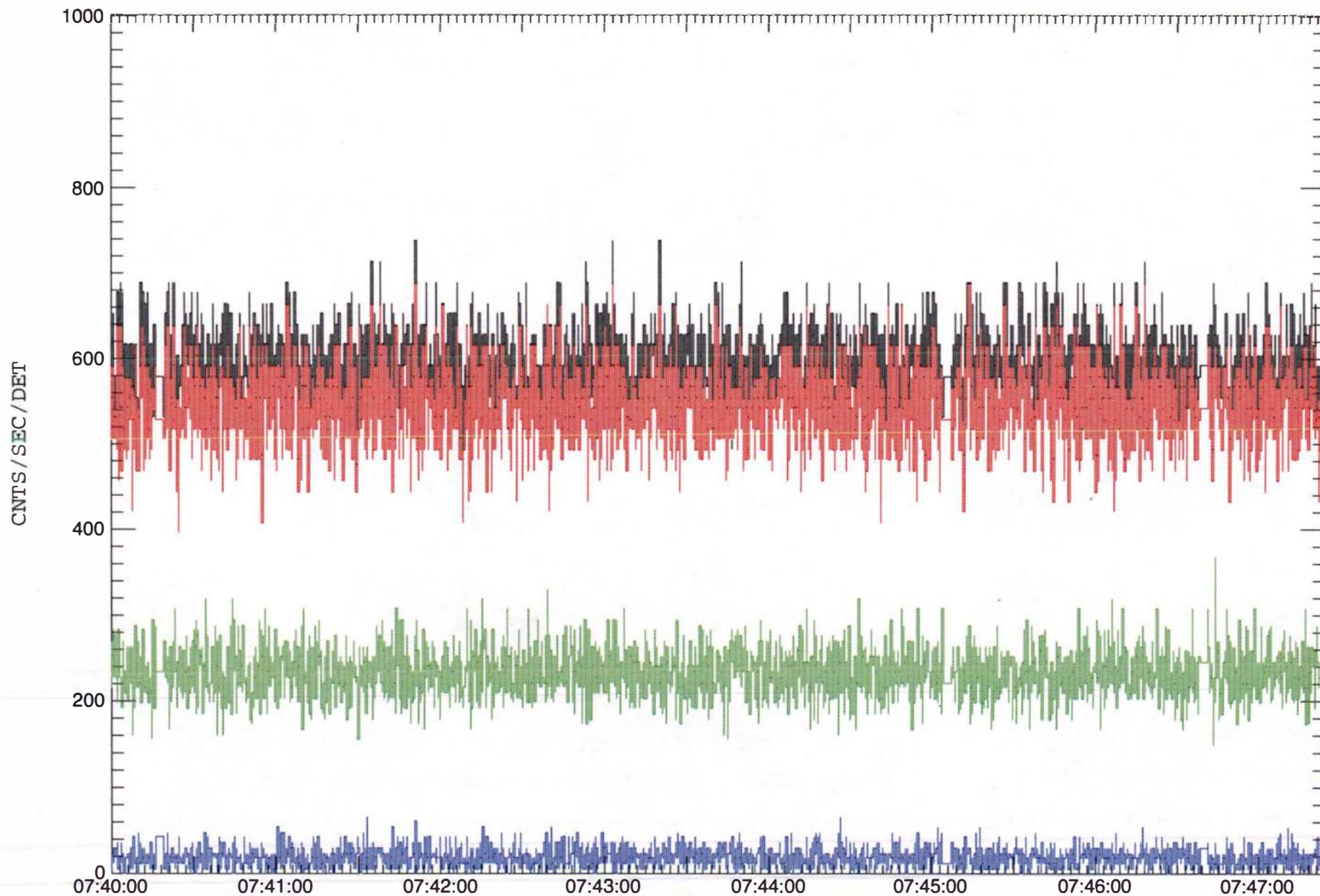
Chan 4:[E6=504 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

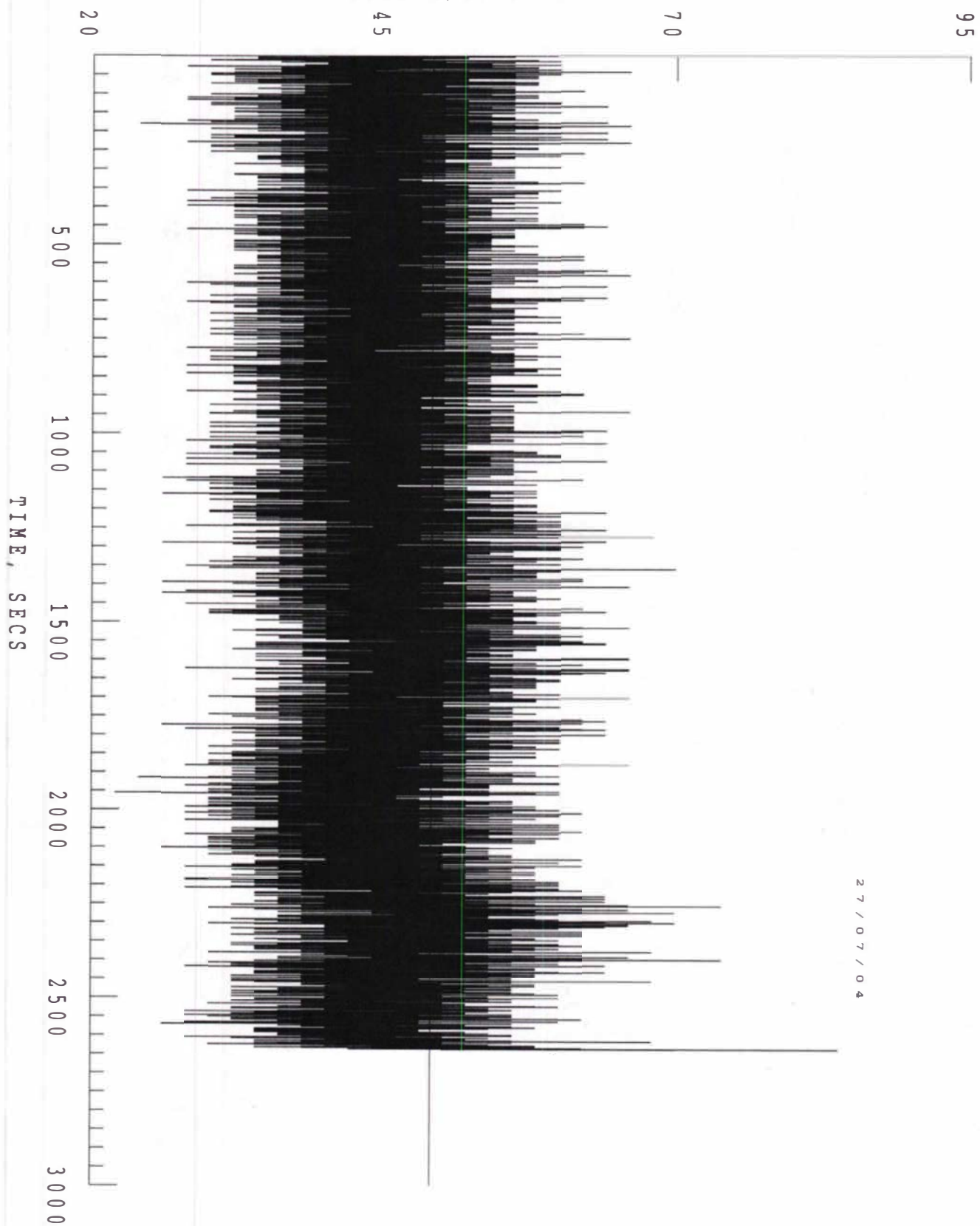
MS01

22/07/04

26492.730

50 - 3000 keV

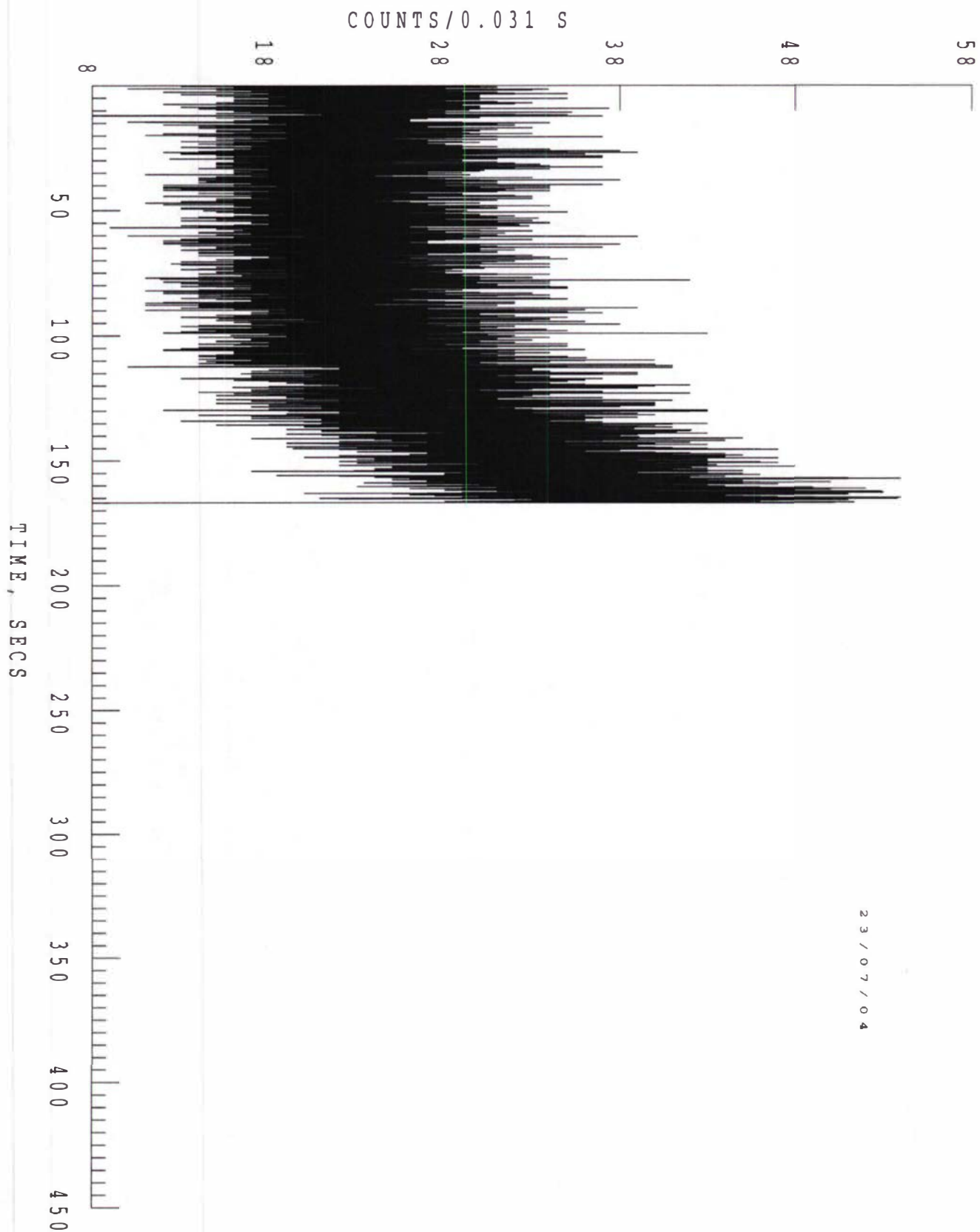
COUNTS/0.250 S



HESSI

22/07/04 27650.000 (KONUS2_20040722_27850)

25- 150 keV



KONUS2

22/07/04

39907.387

50 - 200 keV

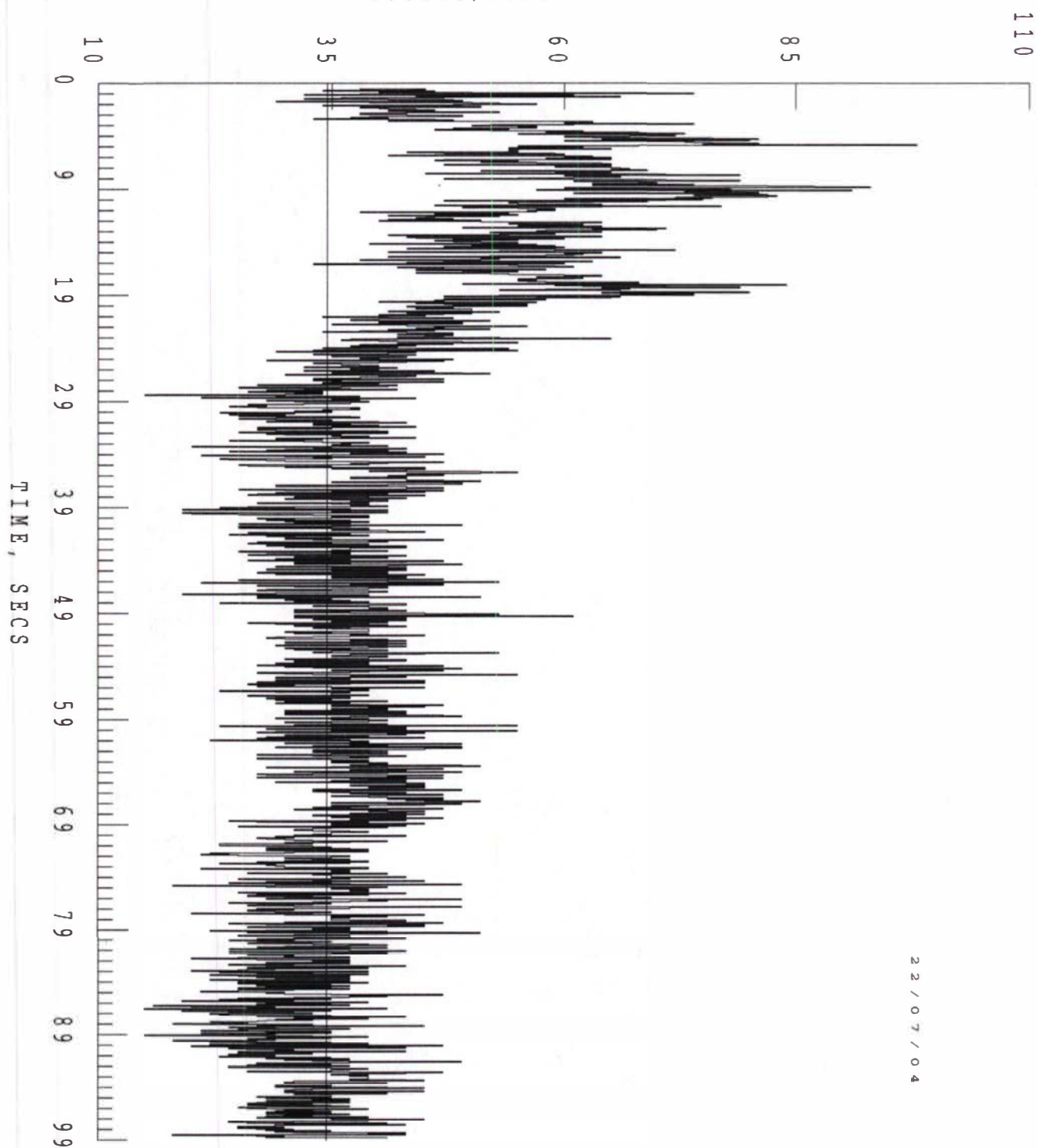
11:05:07

Pure solar

Not in either

Konus list

COUNTS/0.064 S



KONUS HRES 20040722 39907

TRIGGER TIME: 22/07/04 DOY 204 Julian 2453209.96189 UT = 11.085 11:05:07 (39907.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

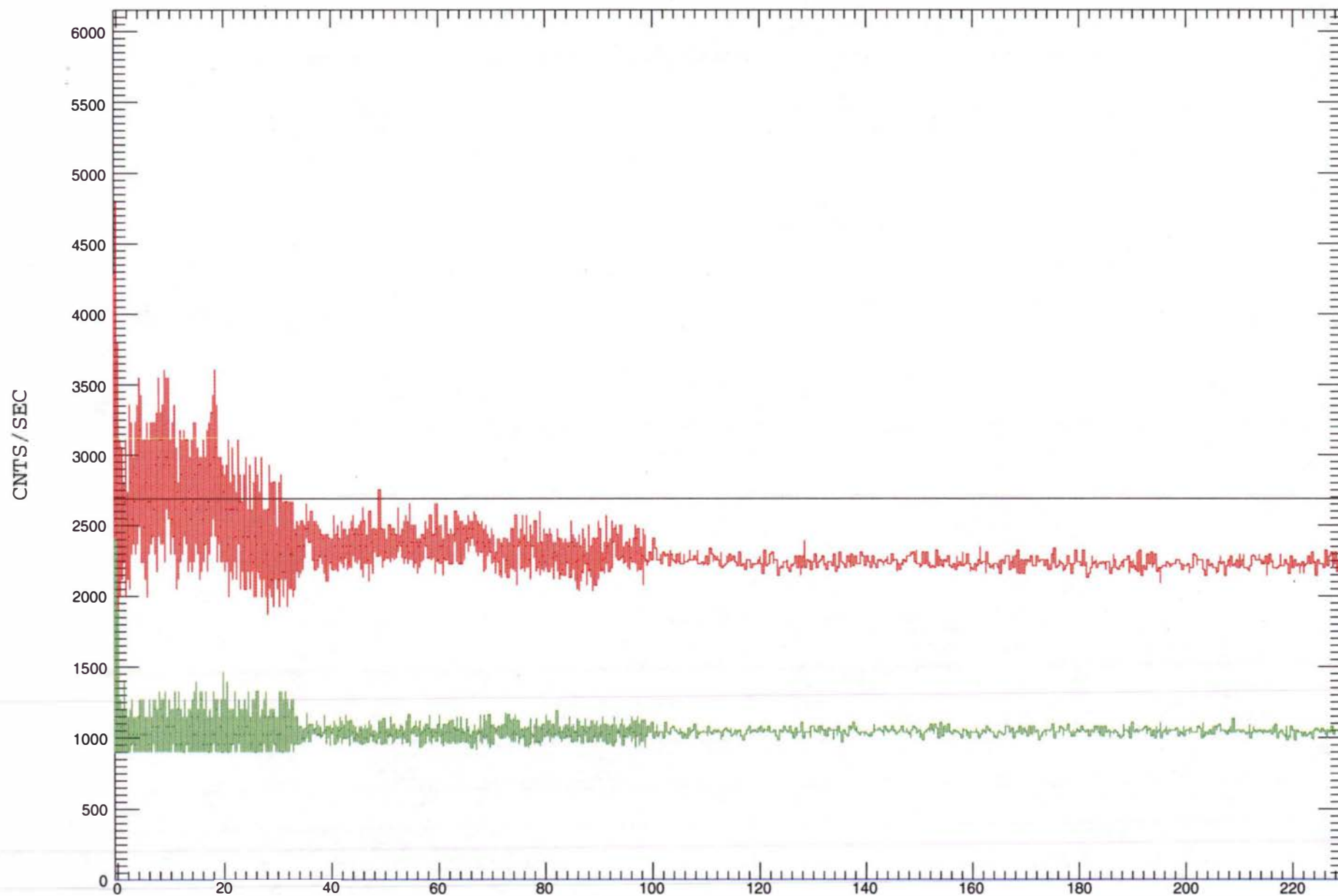
Chan 4 : [> 10 MeV]

Channel 1 + 2700

Channel 2 + 1800

Channel 3 + 900

Channel 4 + 0



ONDS

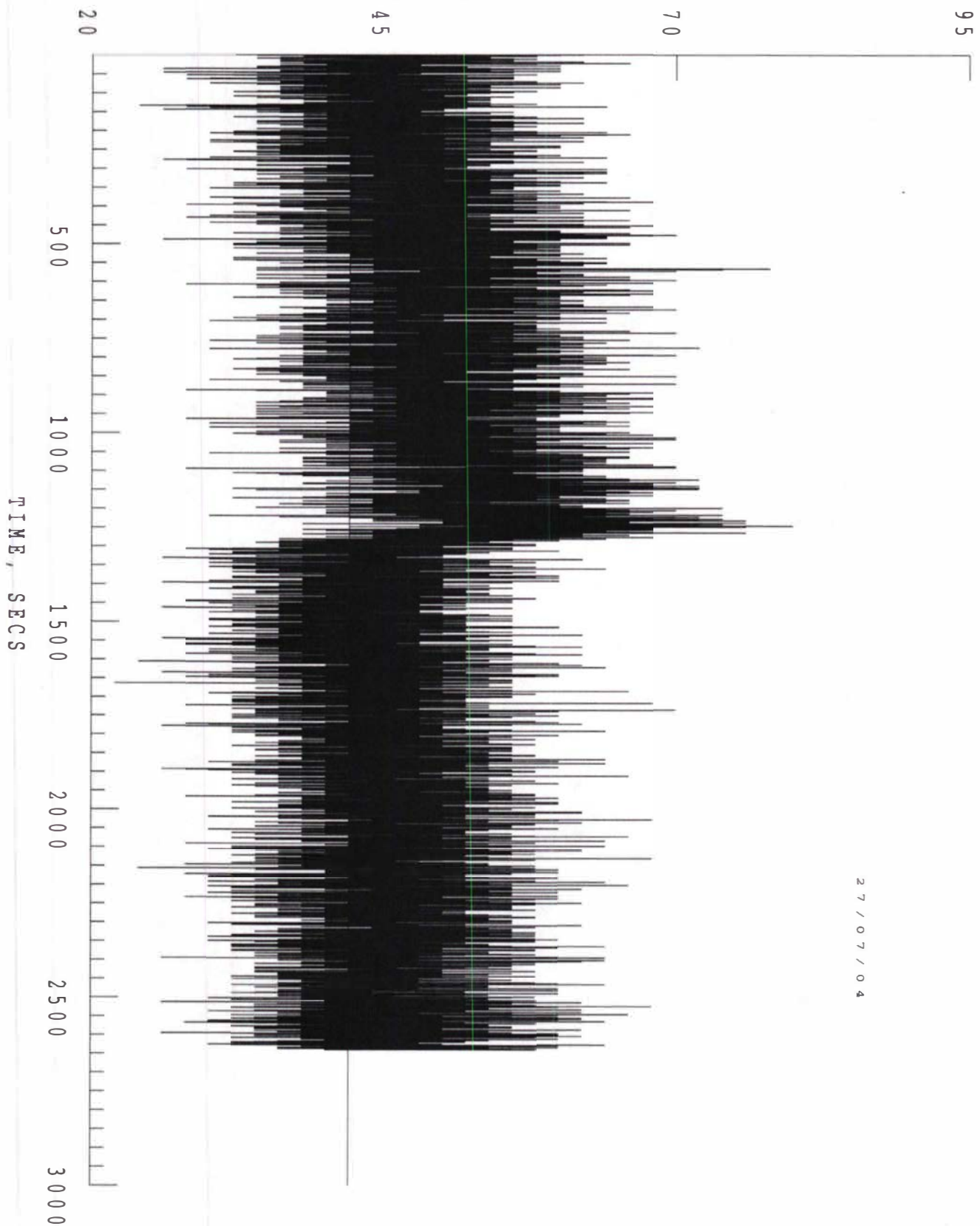
MS01

22/07/04

38552.508

50 - 3000 keV

COUNTS/0.250 S



22/07/04

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTOR 3 (KONUS2_20040722_39907)

BEG TIME: 22/07/04 DOY 204 Julian 2453209.95958 UT = 11.030 11:01:48 (39708.000 secs) [sct = 0019 9d72 d68c 7e5b]
 END TIME: 22/07/04 DOY 204 Julian 2453209.96417 UT = 11.140 11:08:24 (40104.000 secs) [sct = 0019 9d72 ee26 faad]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=77]

Chan 3:[E5=20 E6=511]

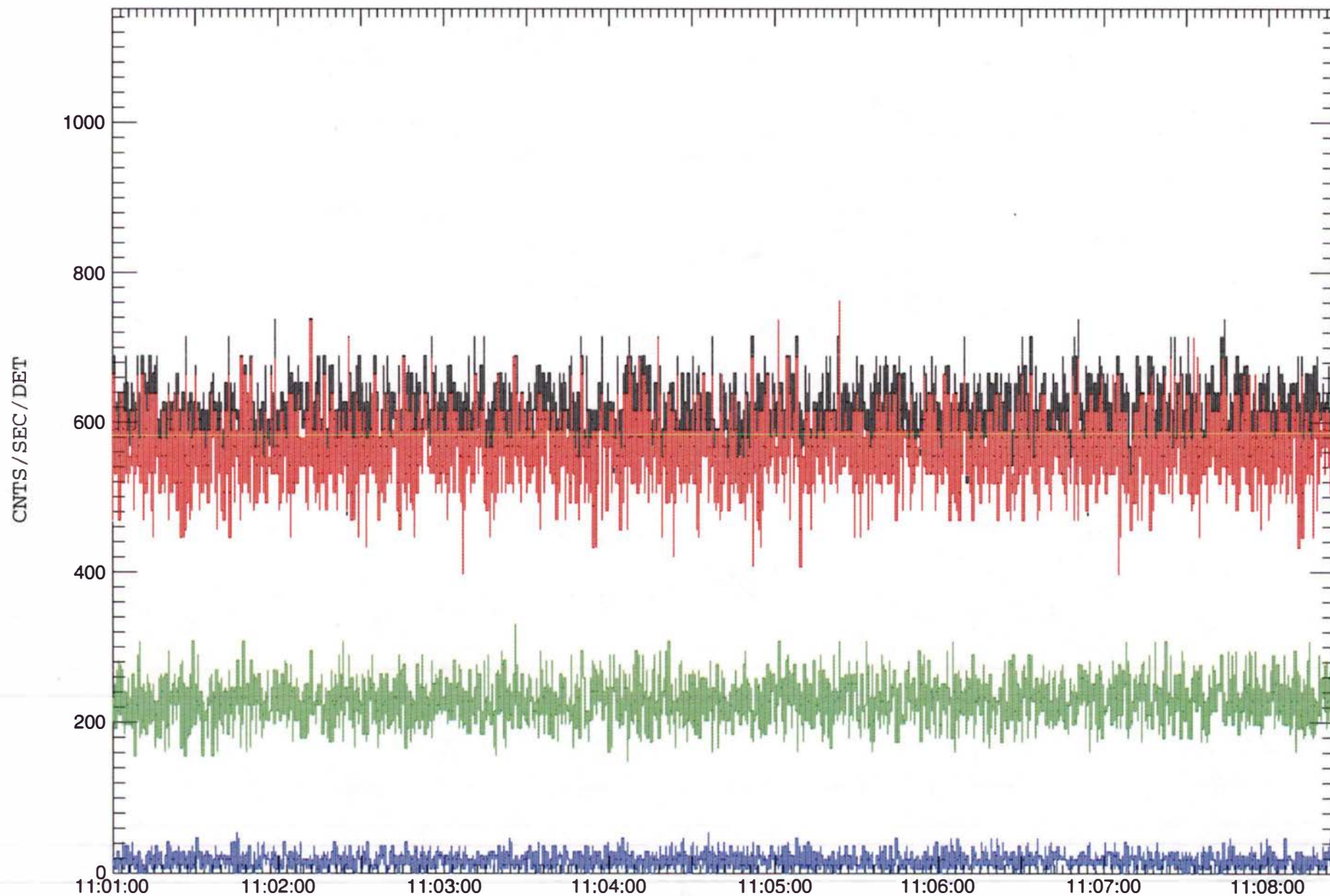
Chan 4:[E6=511 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



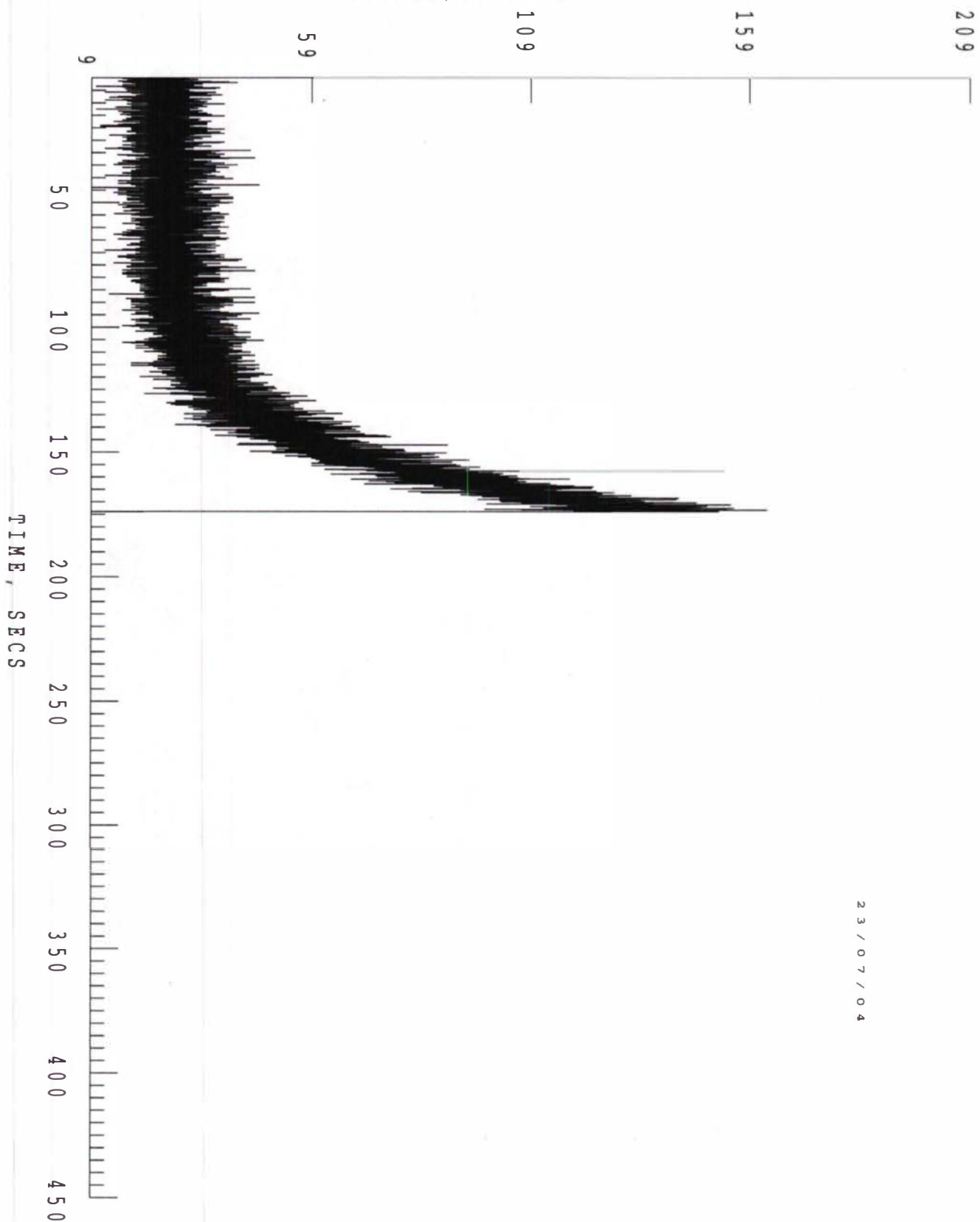
RS UT

HESSI

22/07/04 39707.000 (KONUS2_20040722_39907)

25- 150 keV

COUNTS/0.031 S



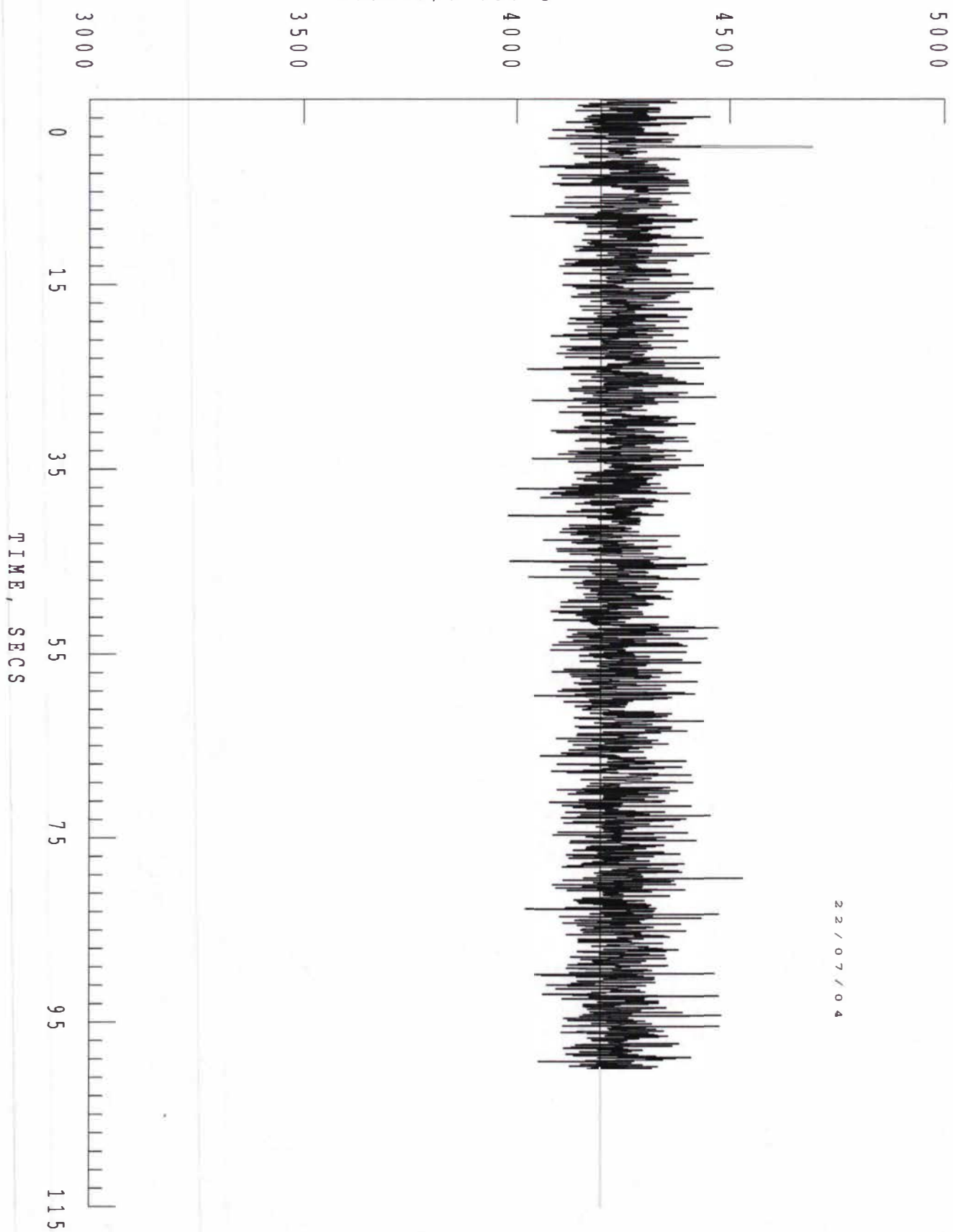
INTEGRAL

22/07/04

40480.873

100-10000 keV

COUNTS/0.050 S



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (INTEGRAL_20040722_40480)

BEG TIME: 22/07/04 DOY 204 Julian 2453209.96625 UT = 11.190 11:11:24 (40284.000 secs) [sct = 0019 9d72 f8e1 9046]
 END TIME: 22/07/04 DOY 204 Julian 2453209.97083 UT = 11.300 11:18:00 (40680.000 secs) [sct = 0019 9d73 107c 0c99]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=77]

Chan 3:[E5=20 E6=510]

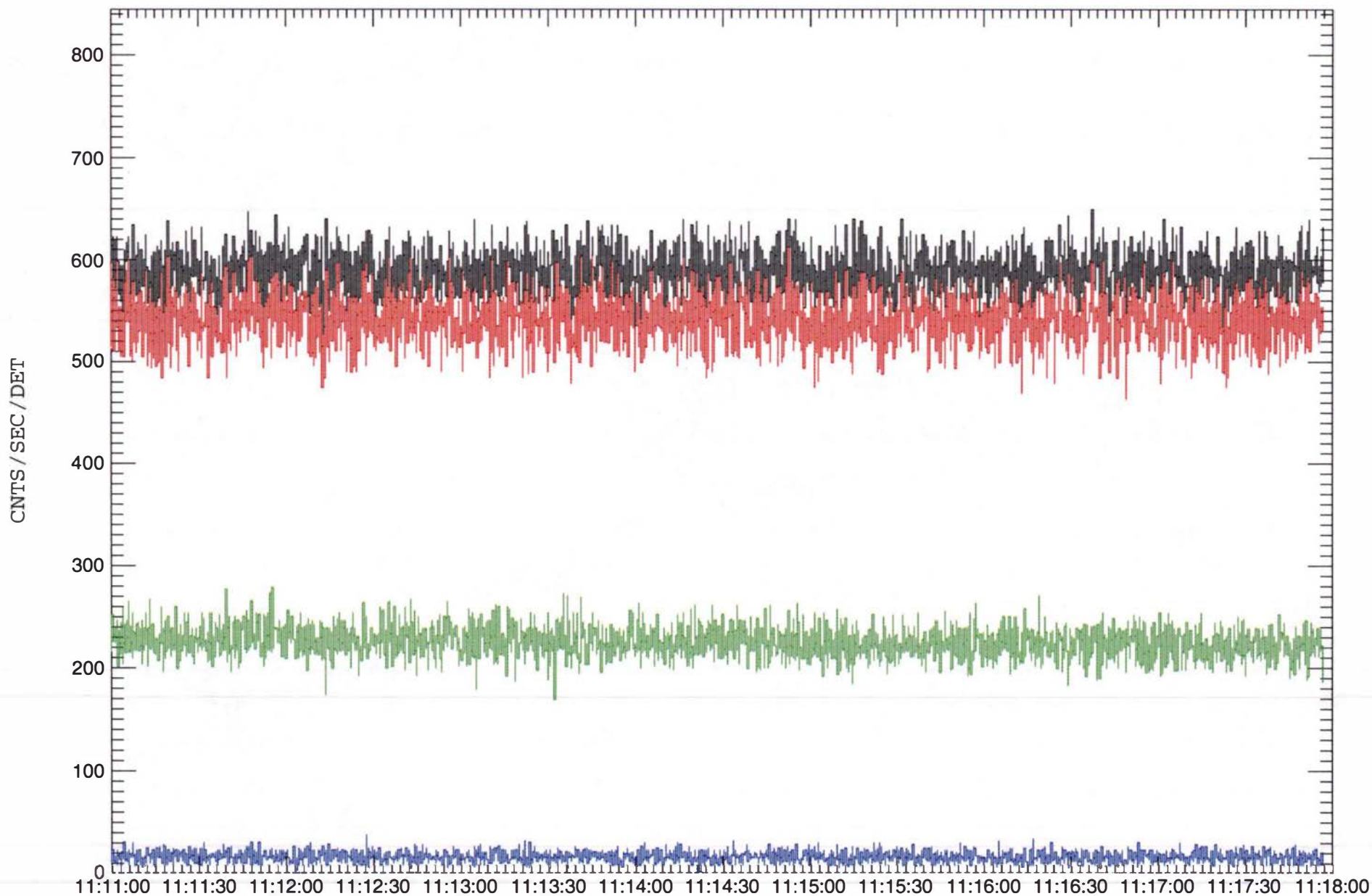
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

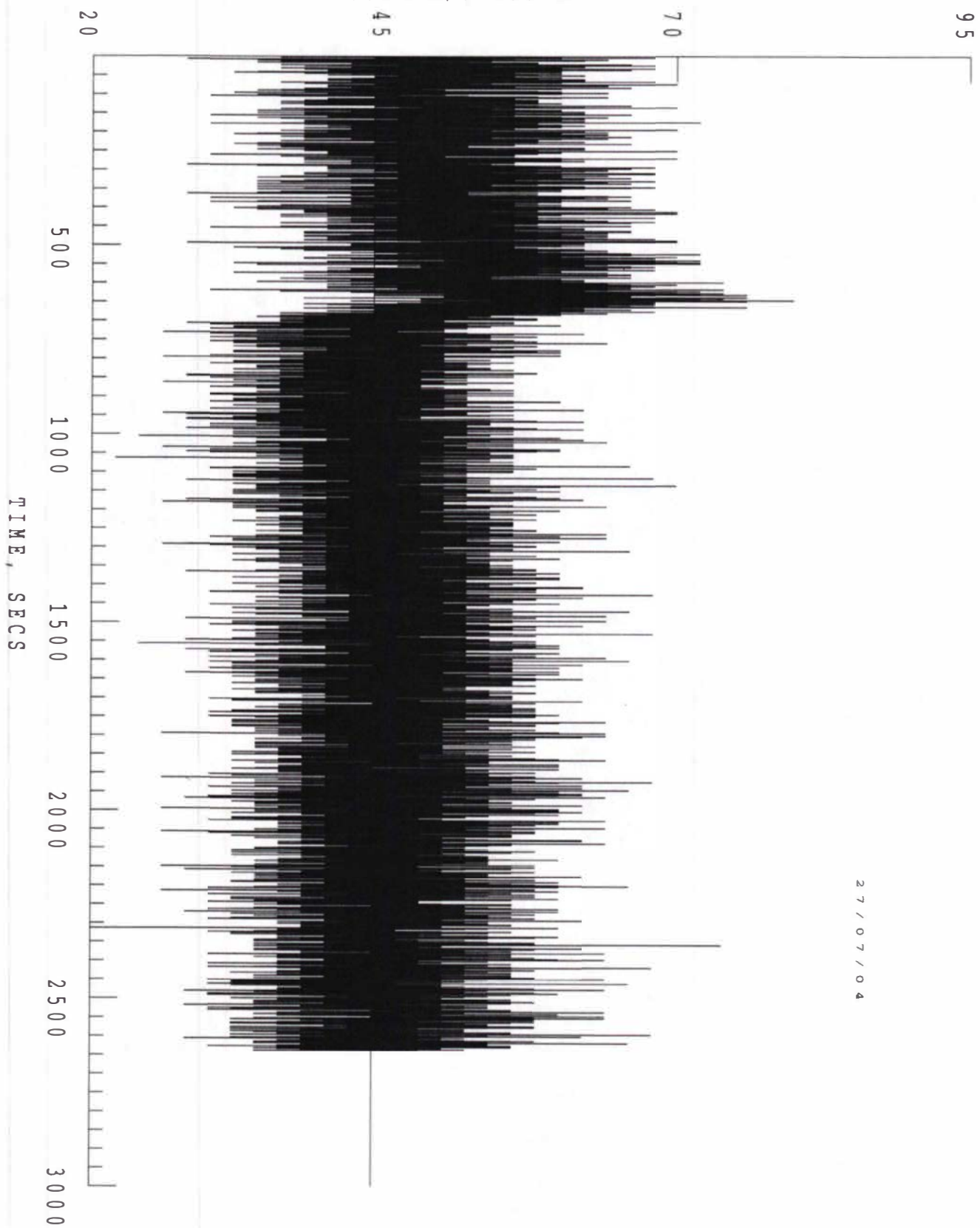
MS01

22/07/04

39152.502

50 - 3000 keV

COUNTS/0.250 S



From williams@sunspot.ssl.berkeley.edu Thu Jul 22 17:59:41 2004
Date: Thu, 22 Jul 2004 18:02:45 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_INTEGRAL_20040722_40480

HESSI 25 to 150 keV Counts
Created 22-Jul-2004 17:59:26.00
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

KONUS2

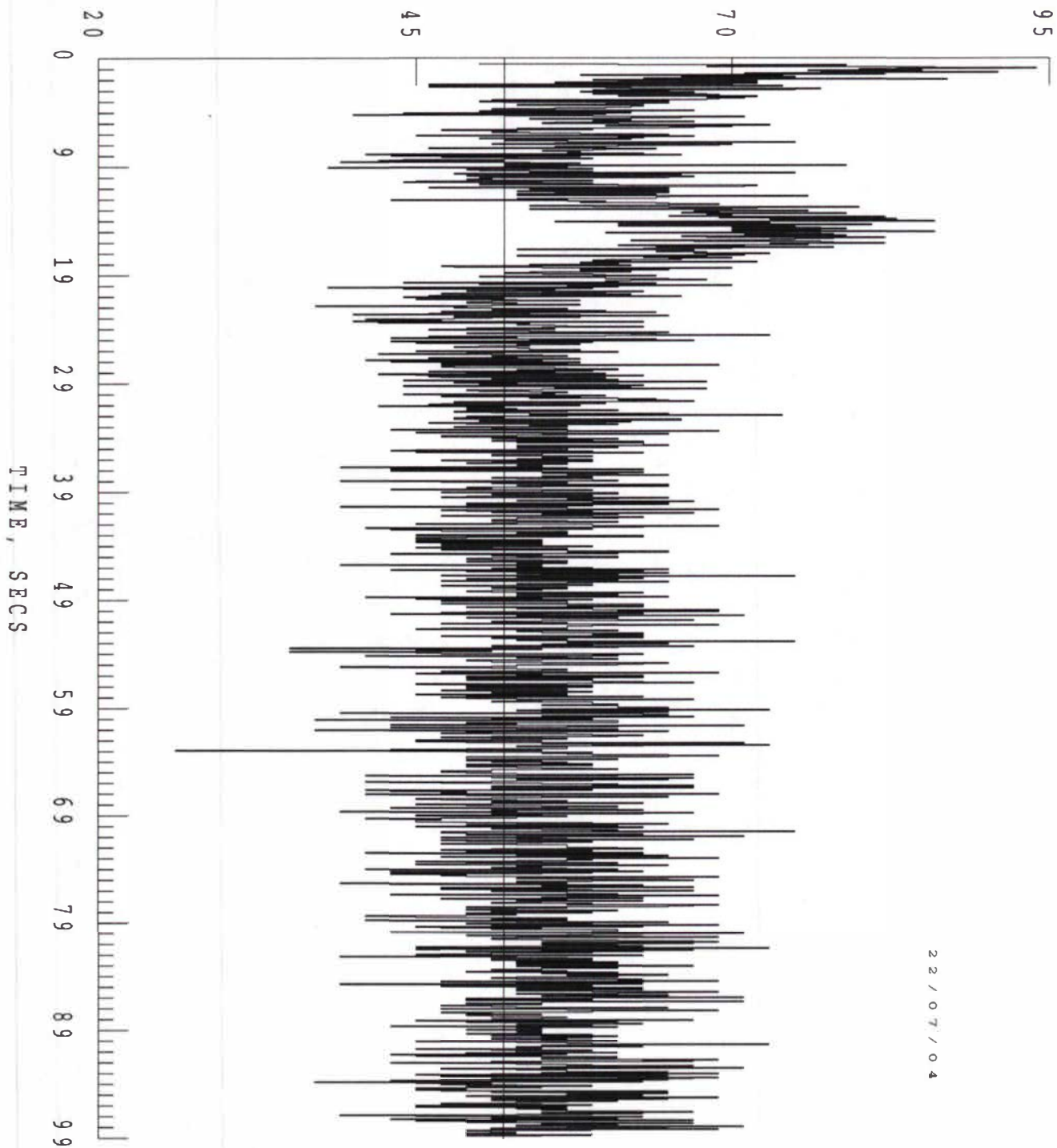
22/07/04

61031.562

50 - 200 keV

16:57:11

COUNTS/0.064 S



22/07/04

KONUS HRES 20040722 61030

TRIGGER TIME: 22/07/04 DOY 204 Julian 2453210.20638 UT = 16.953 16:57:10 (61031.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

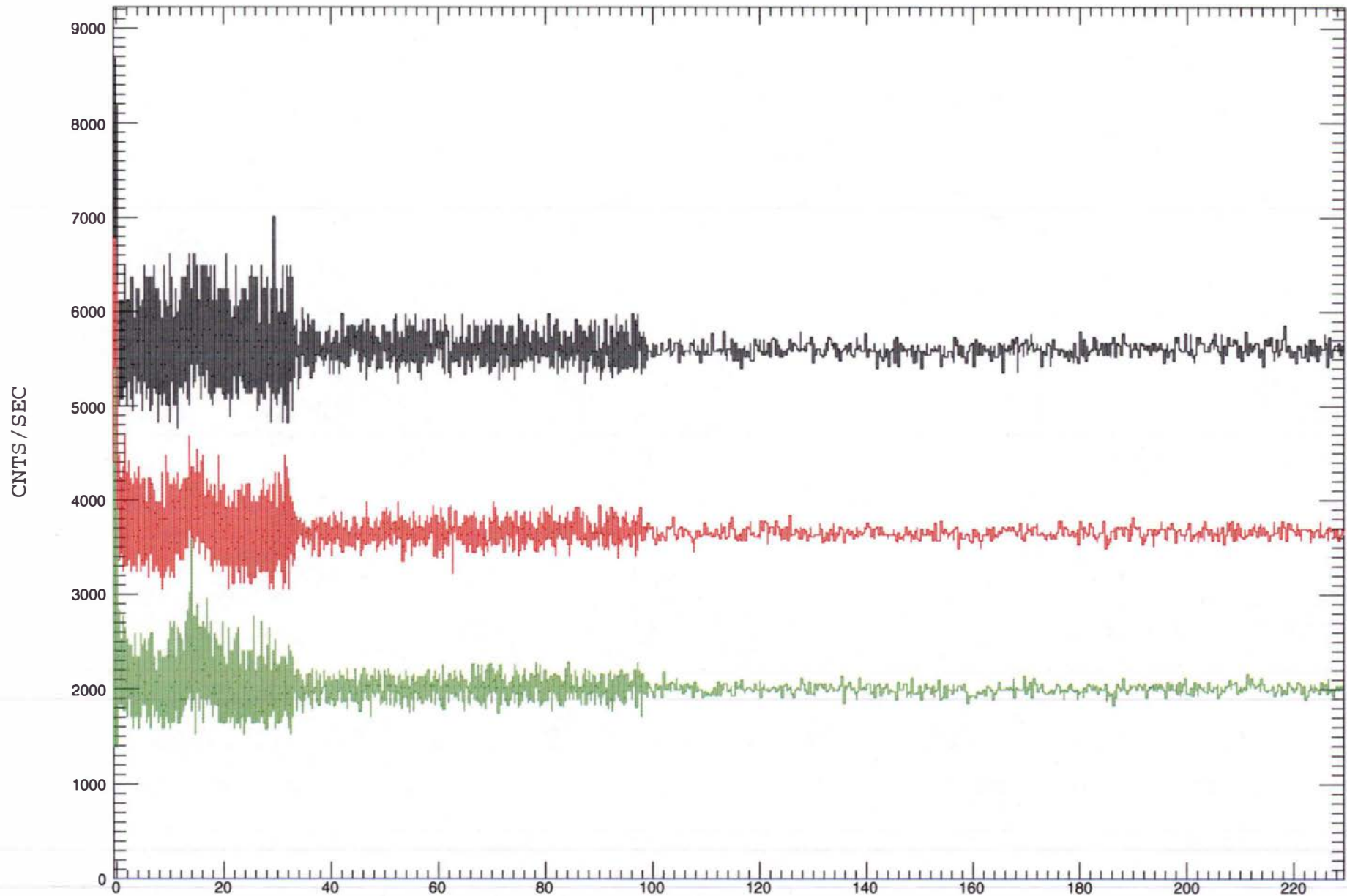
Chan 4 : [> 10 MeV]

Channel 1 + 4200

Channel 2 + 2800

Channel 3 + 1400

Channel 4 + 0



ONDS

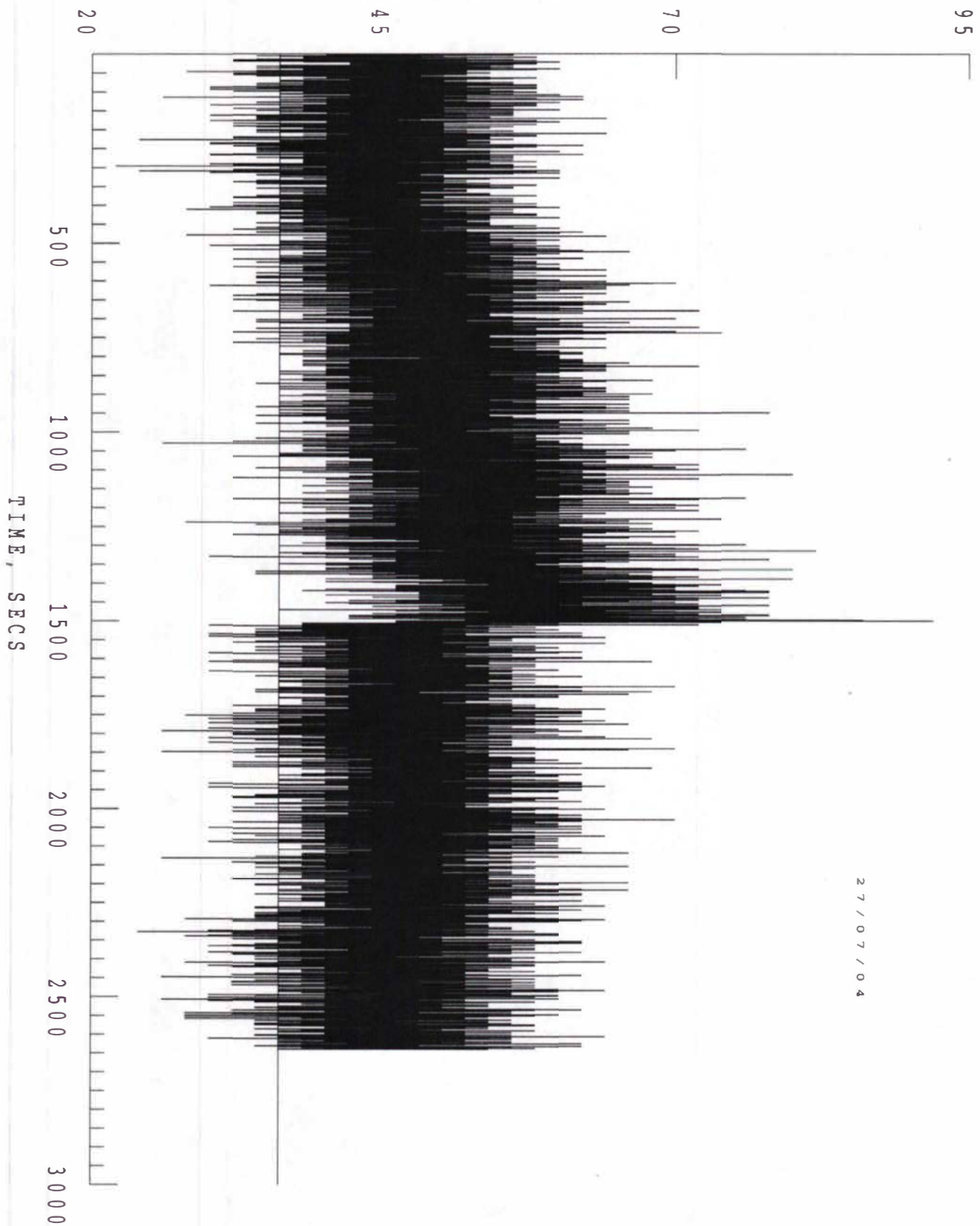
MS01

22/07/04

59672.122

50 - 3000 keV

COUNTS/0.250 S

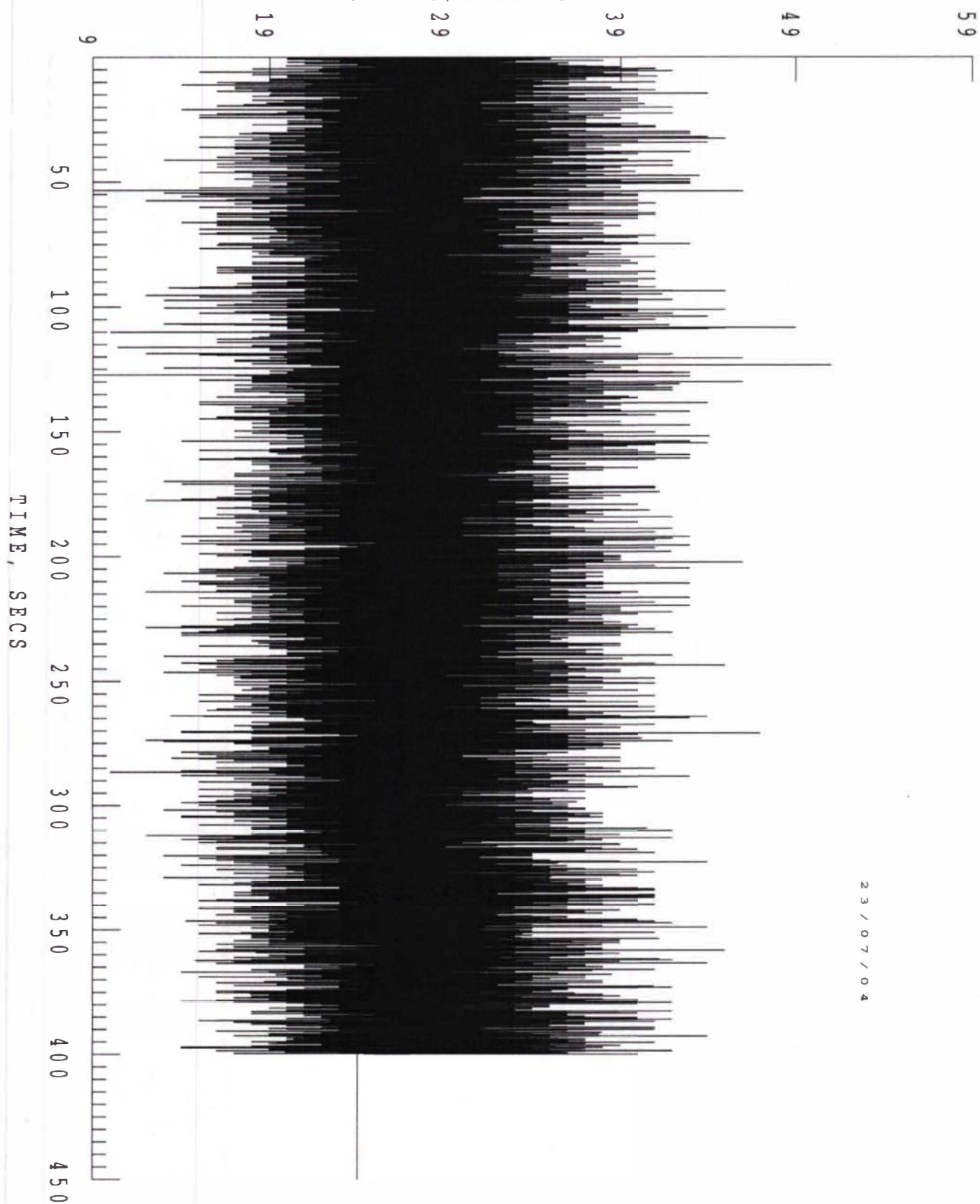


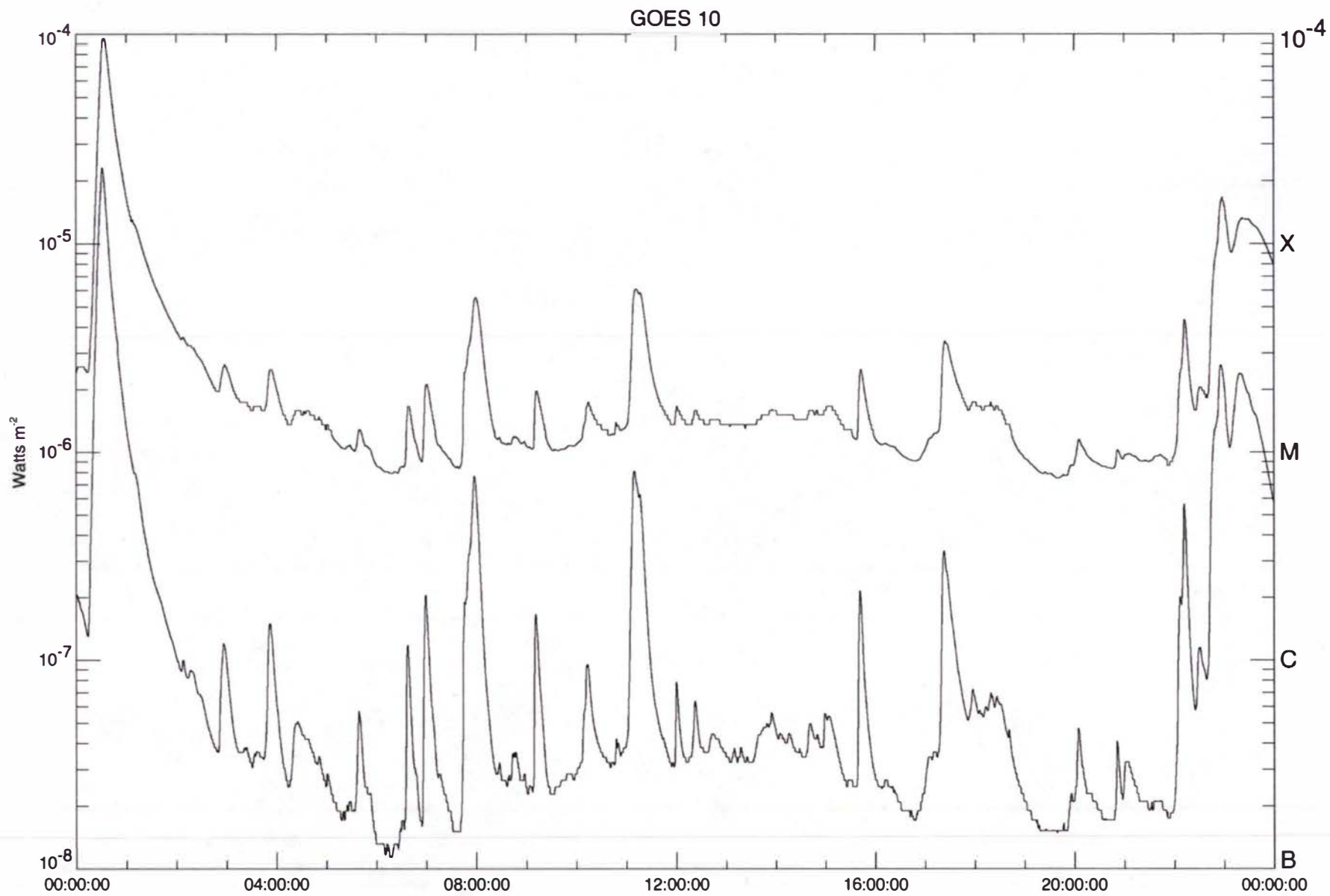
HESSI

22/07/04 60831.000 (KONUS2_20040722_61031)

25- 150 keV

COUNTS/0.031 S





Data Start: 04/07/22, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/23, 0828

Sample average = 10

Date: Aug 1 '08

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

N/A - need Konus EL

- ☐ 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?
- ☐ 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

- ☒ $\Sigma 3\Delta t$'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?

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

G=GALACTIC EQUATOR

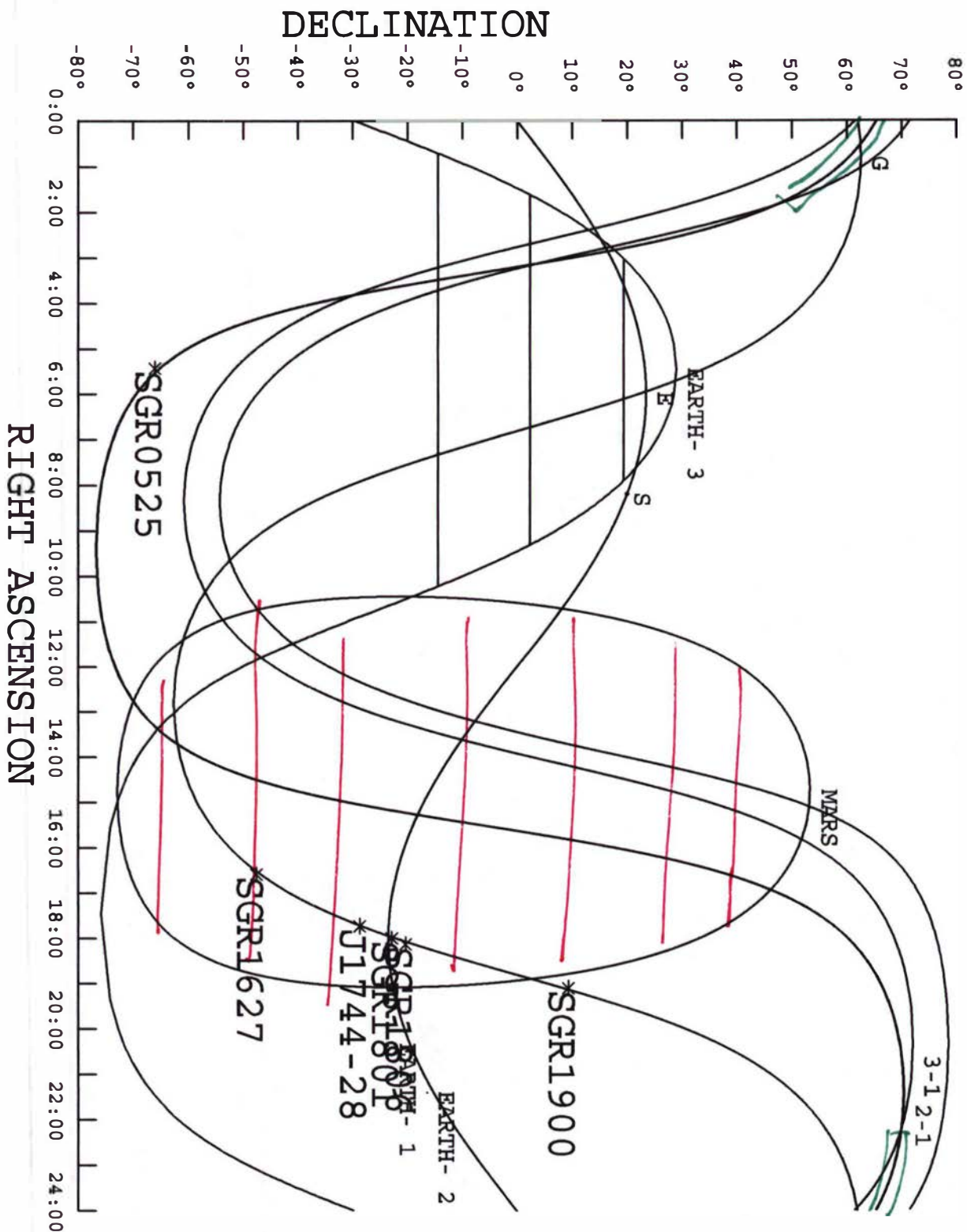
1 KONUS2

2 MO

3 HESSI

EVENT OF JUL 23, 2004 4:06

1 / 8 / 8



MO GE

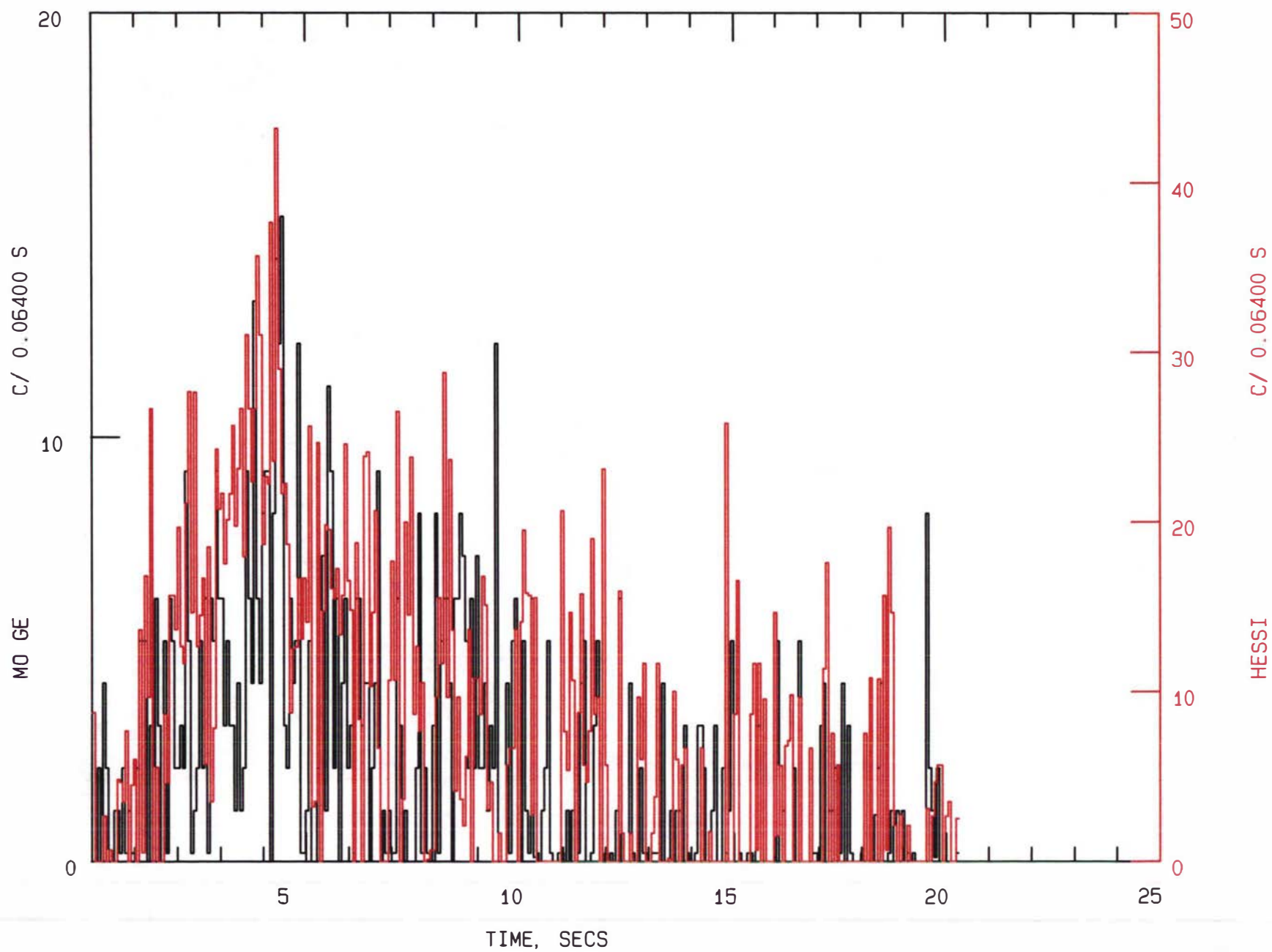
-HESSI

CORRELATION

23/07/04

14864.093

1/ 8/ 8



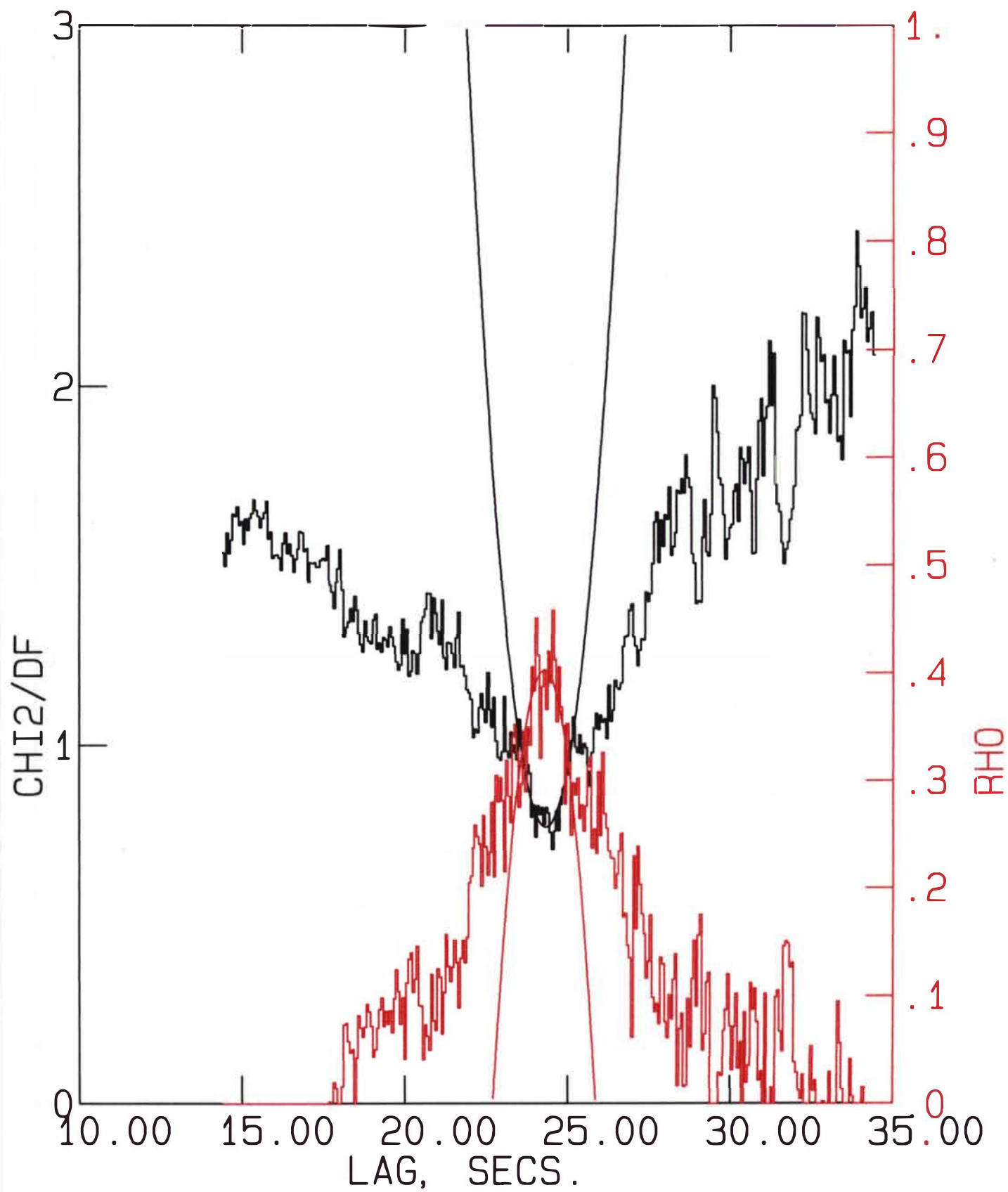
MO GE

-HESSI

CORRELATION

23/07/04

14864.093



KONUS2

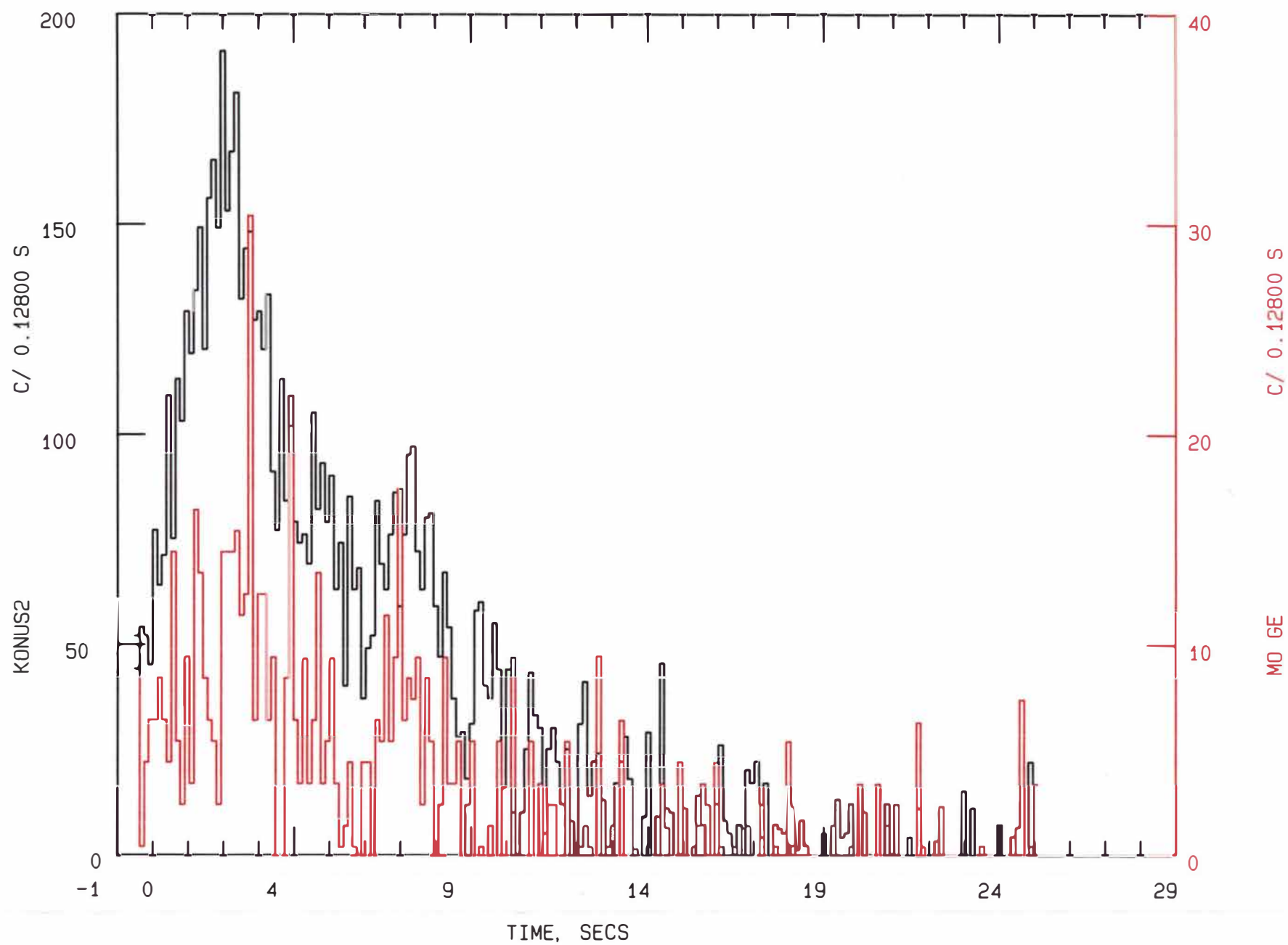
-MO GE

CORRELATION

23/07/04

14795.564

1/ 8/ 8



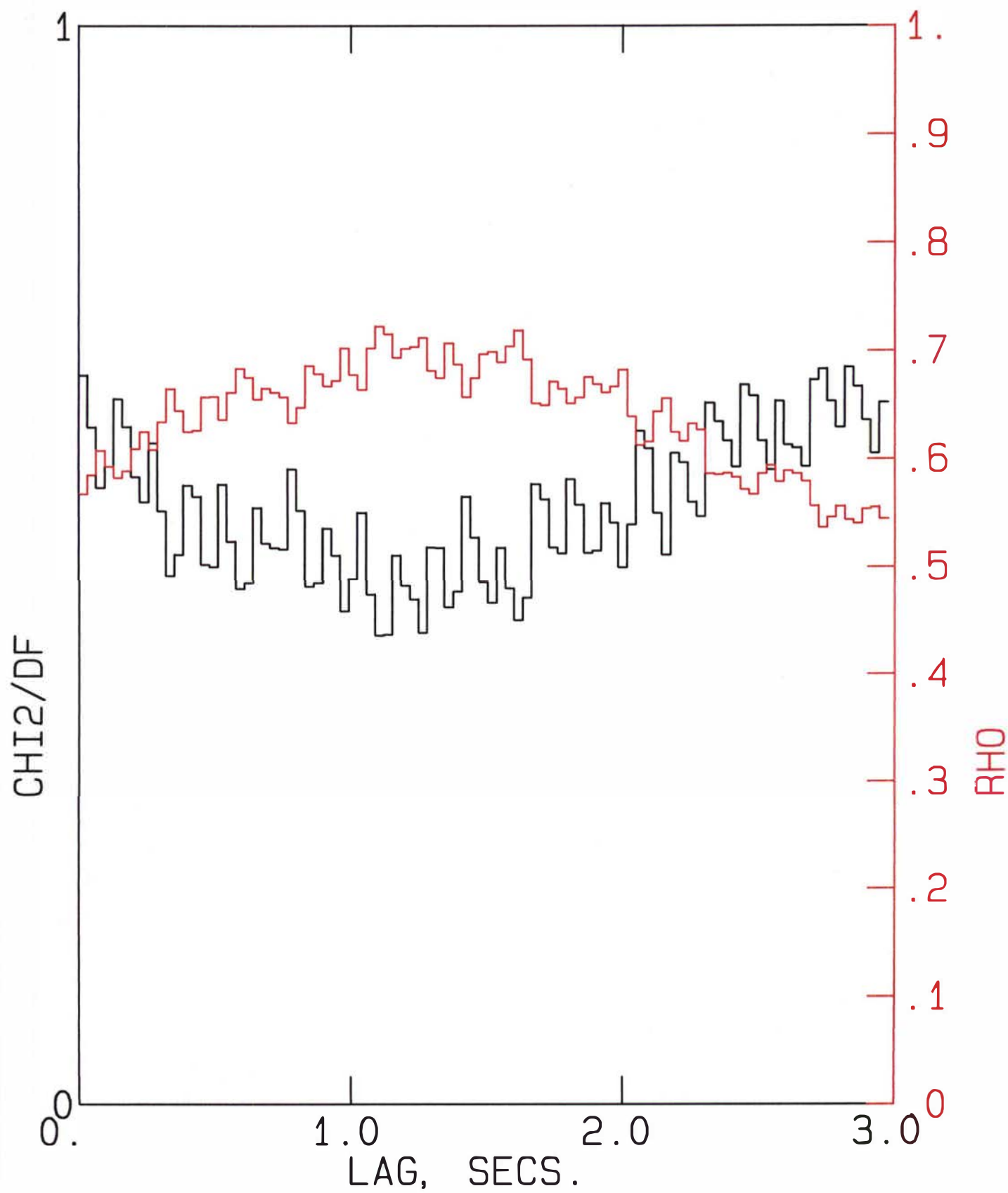
KONUS2

-MO GE

CORRELATION

23/07/04

14795.564



KONUS2

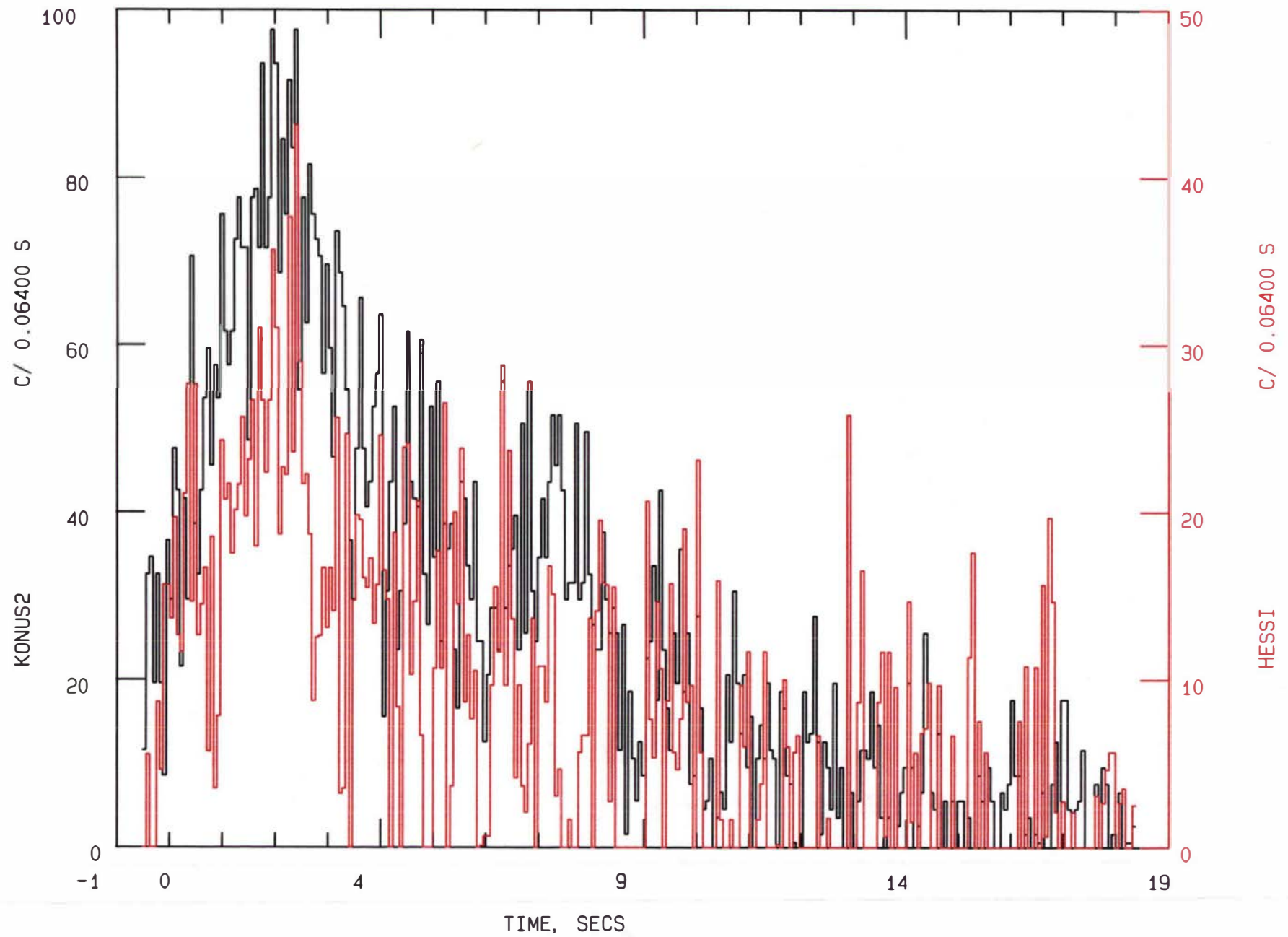
-HESSI

CORRELATION

23/07/04

14795.564

1/ 8/ 8



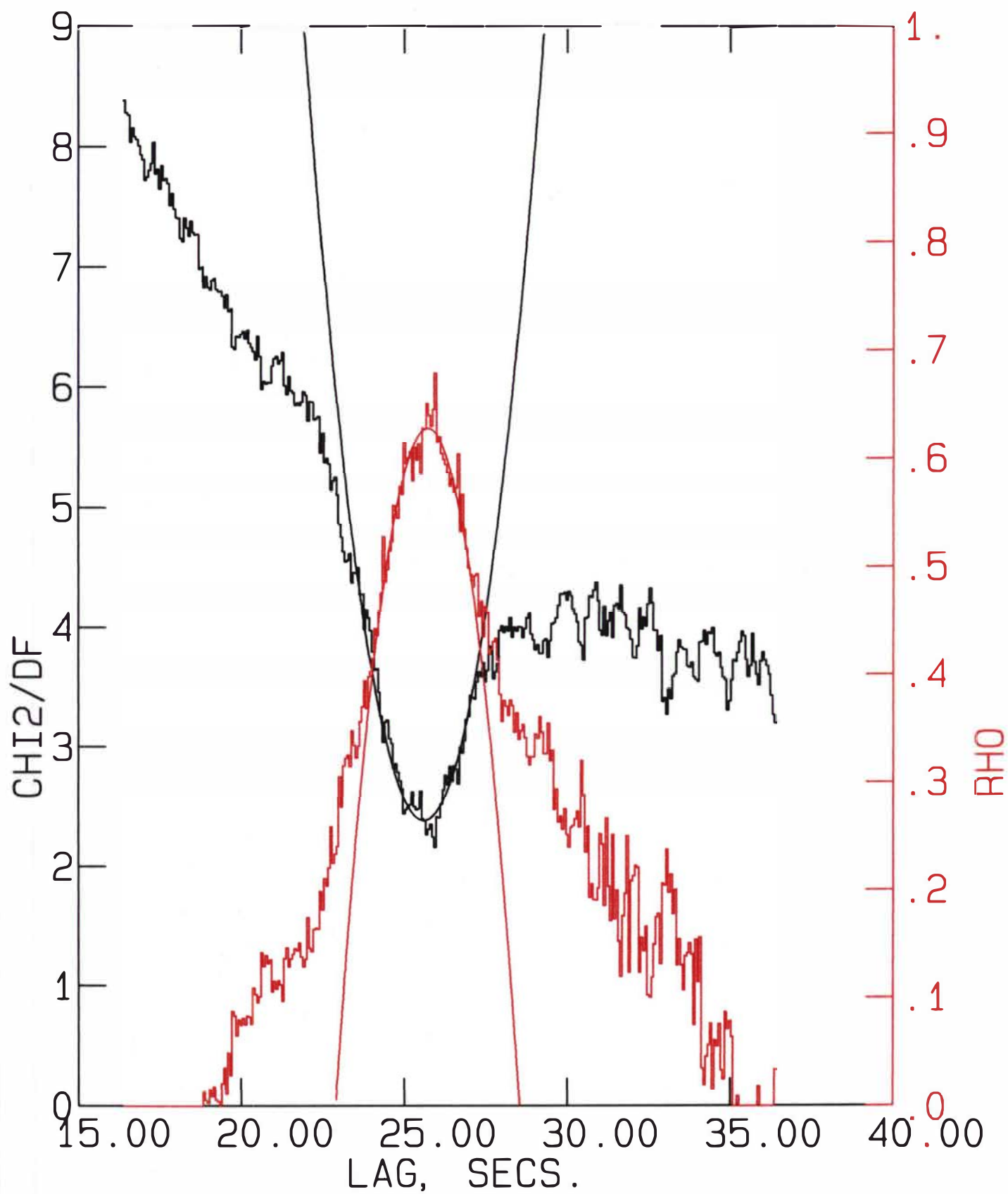
KONUS2

-HESSI

CORRELATION

23/07/04

14795.564



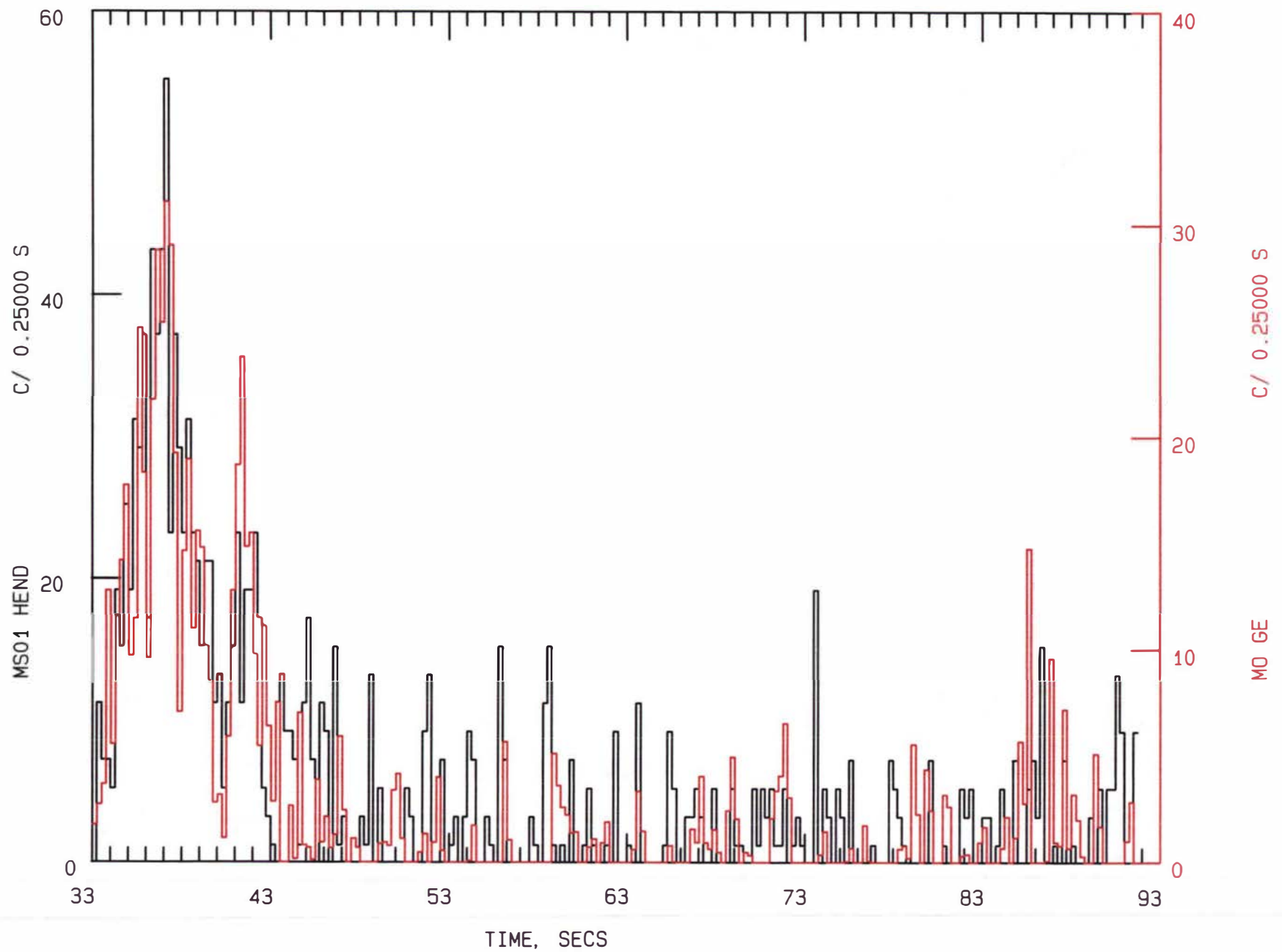
MS01 HEND -MO GE

CORRELATION

23/07/04

14831.351

1/ 8/ 8

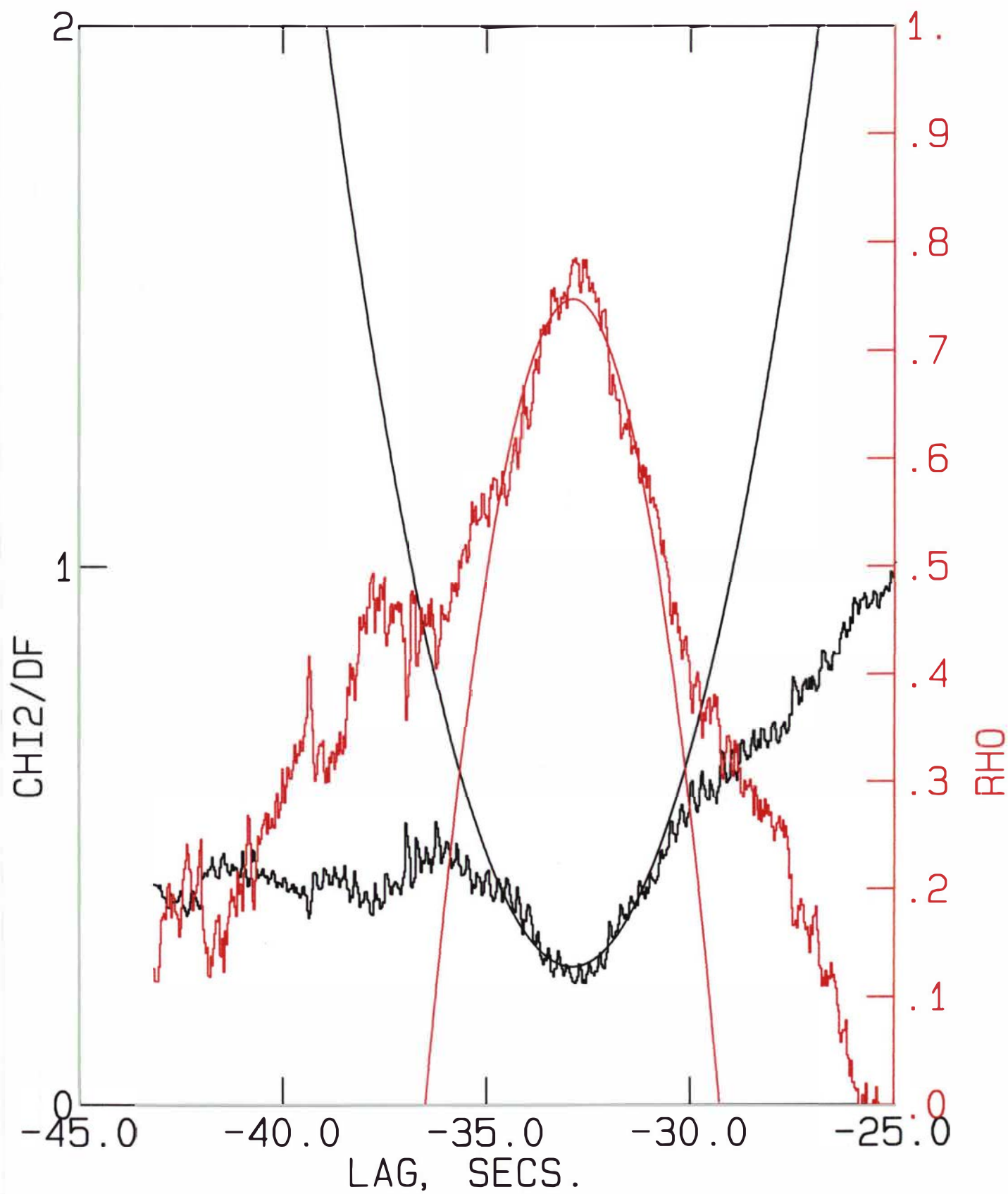


MS01 HEND -MO GE

CORRELATION

23/07/04

14831.351



KONUS2

23/07/04

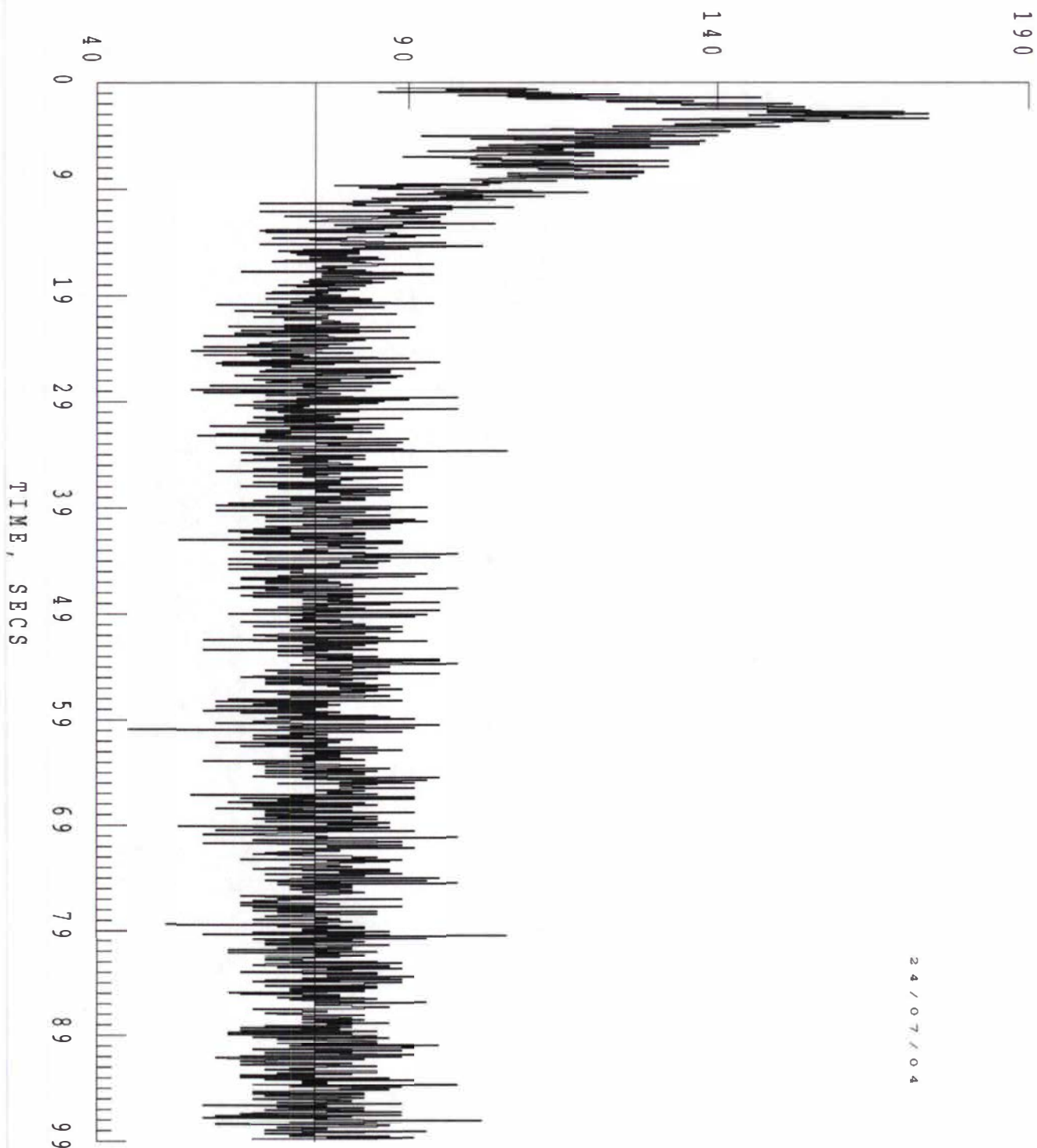
14795.564

D

50- 200 keV

04:06:35

COUNTS/0.064 S



KONUS HRES 20040723 14795

TRIGGER TIME: 23/07/04 DOY 205 Julian 2453210.67124 UT = 04.110 04:06:35 (14795.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

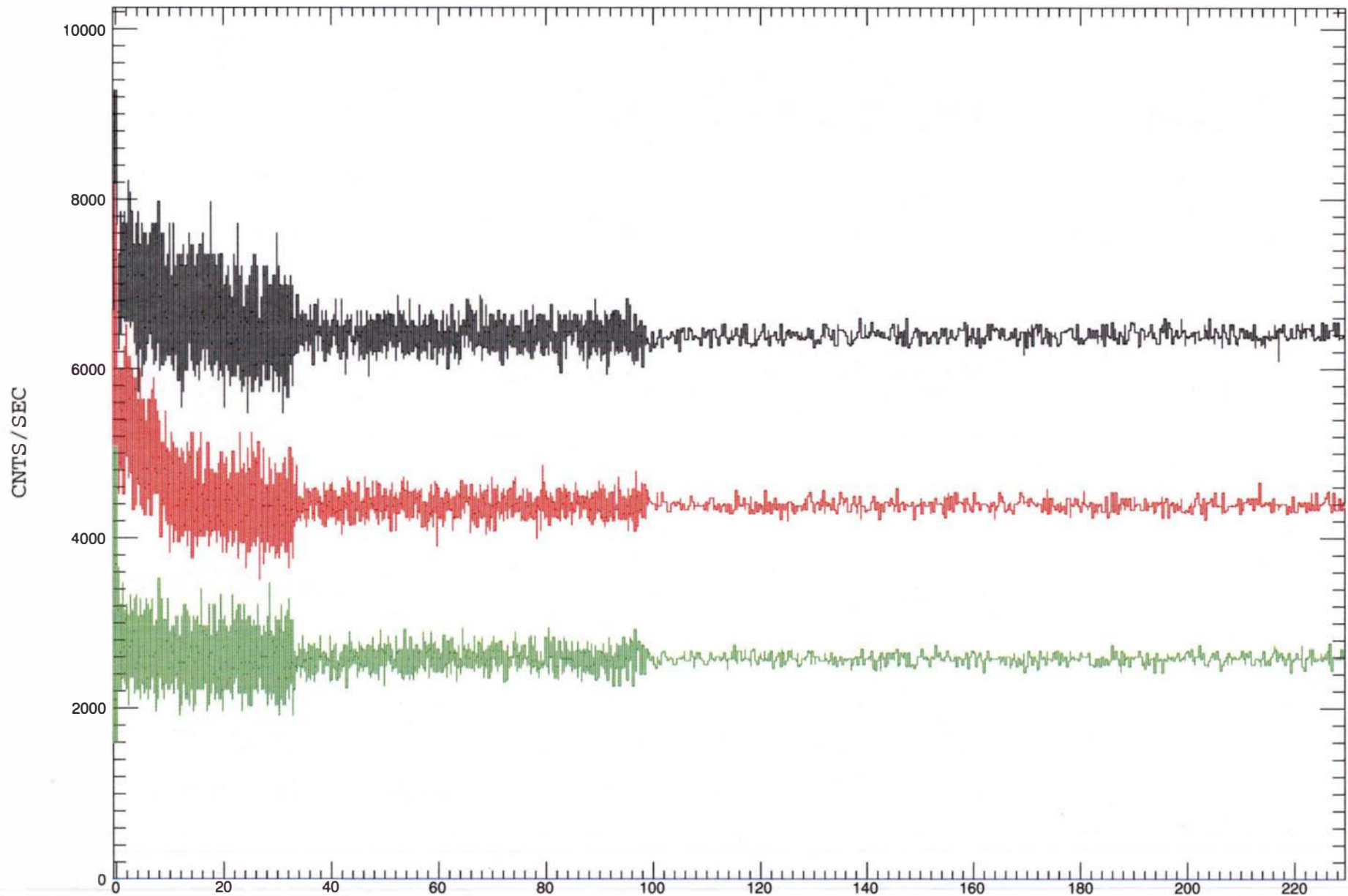
Chan 4 : [> 10 MeV]

Channel 1 + 4800

Channel 2 + 3200

Channel 3 + 1600

Channel 4 + 0

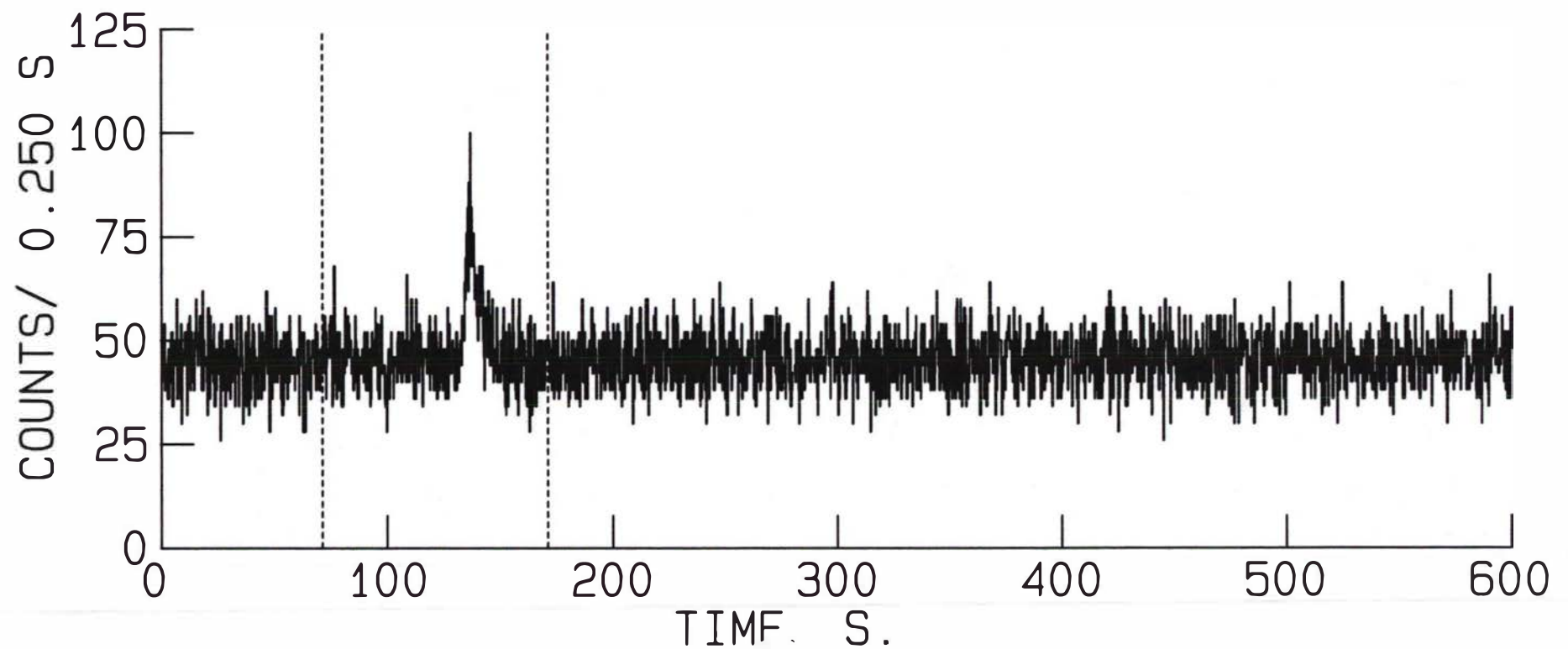


SECONDS

MS01 HEND
23/07/04 14731.352 s
50-3000 keV

01/08/08

N= 10 M=80
>4.0 SIGMA FLUCTUATIONS

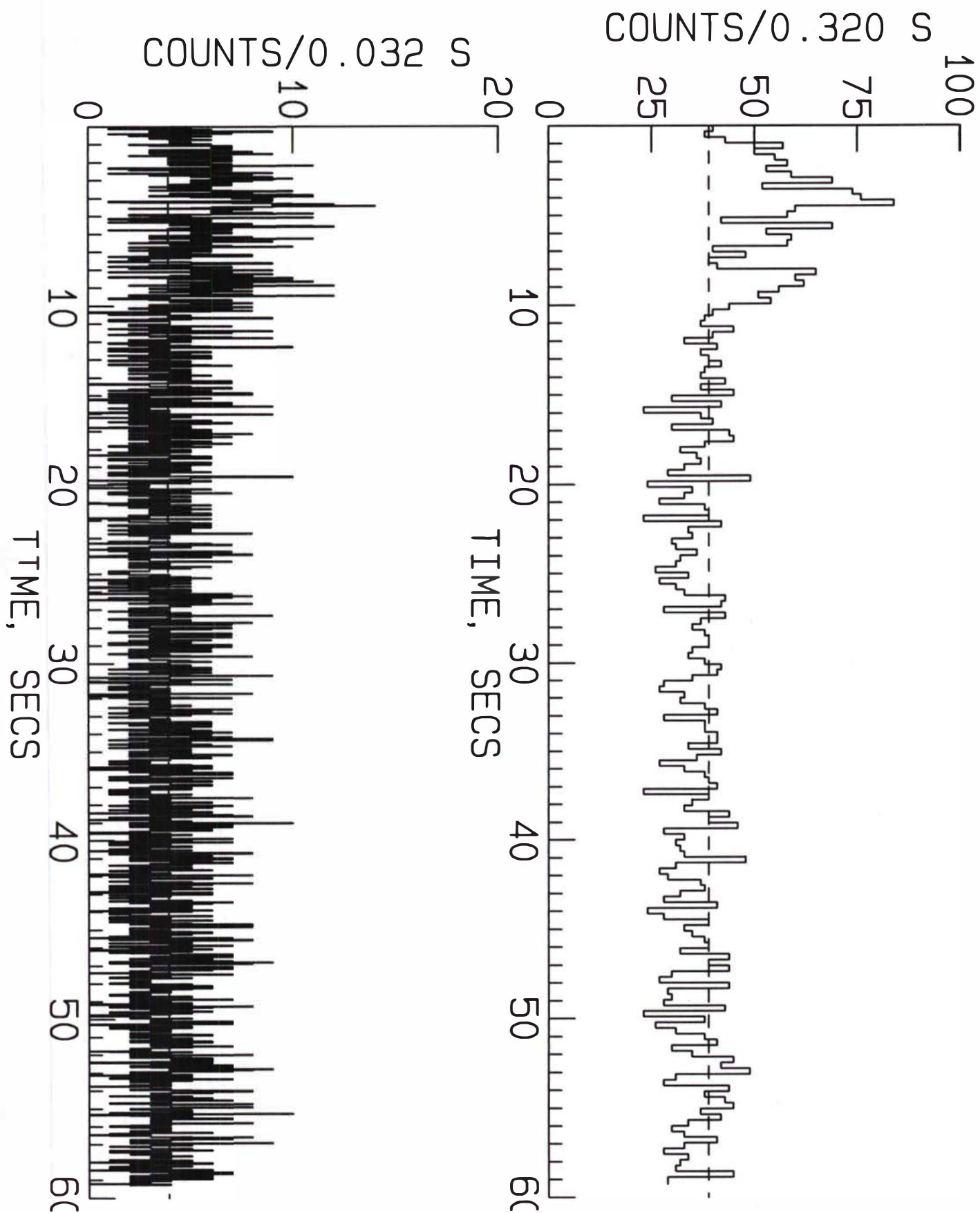


MO GE

23/07/04 14864.093

116- 337 keV

23 / 7 / 8



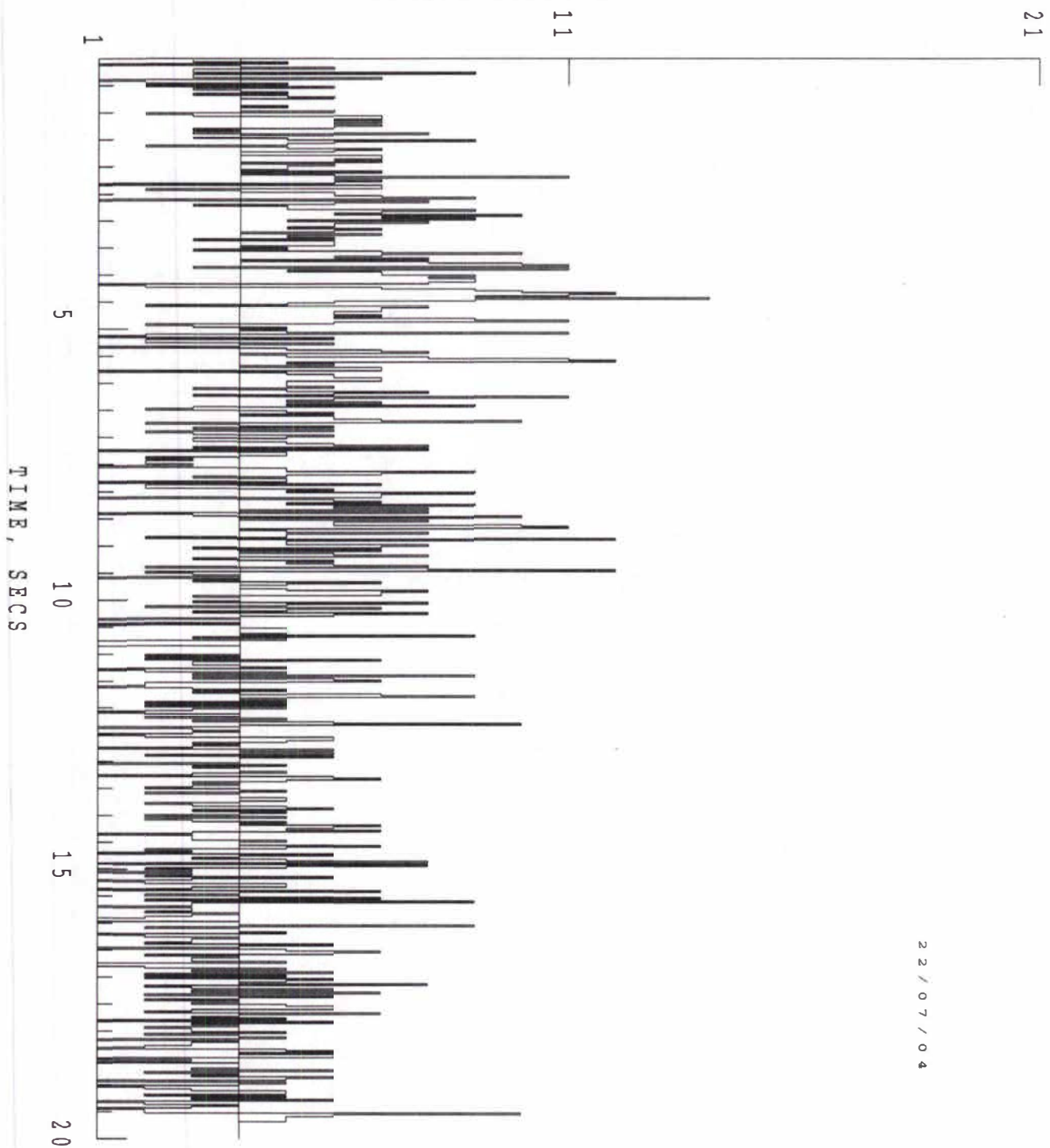
MO

23/07/04

14864.097

116- 337 keV

COUNTS/0.032 S



22/07/04

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

G=GALACTIC EQUATOR

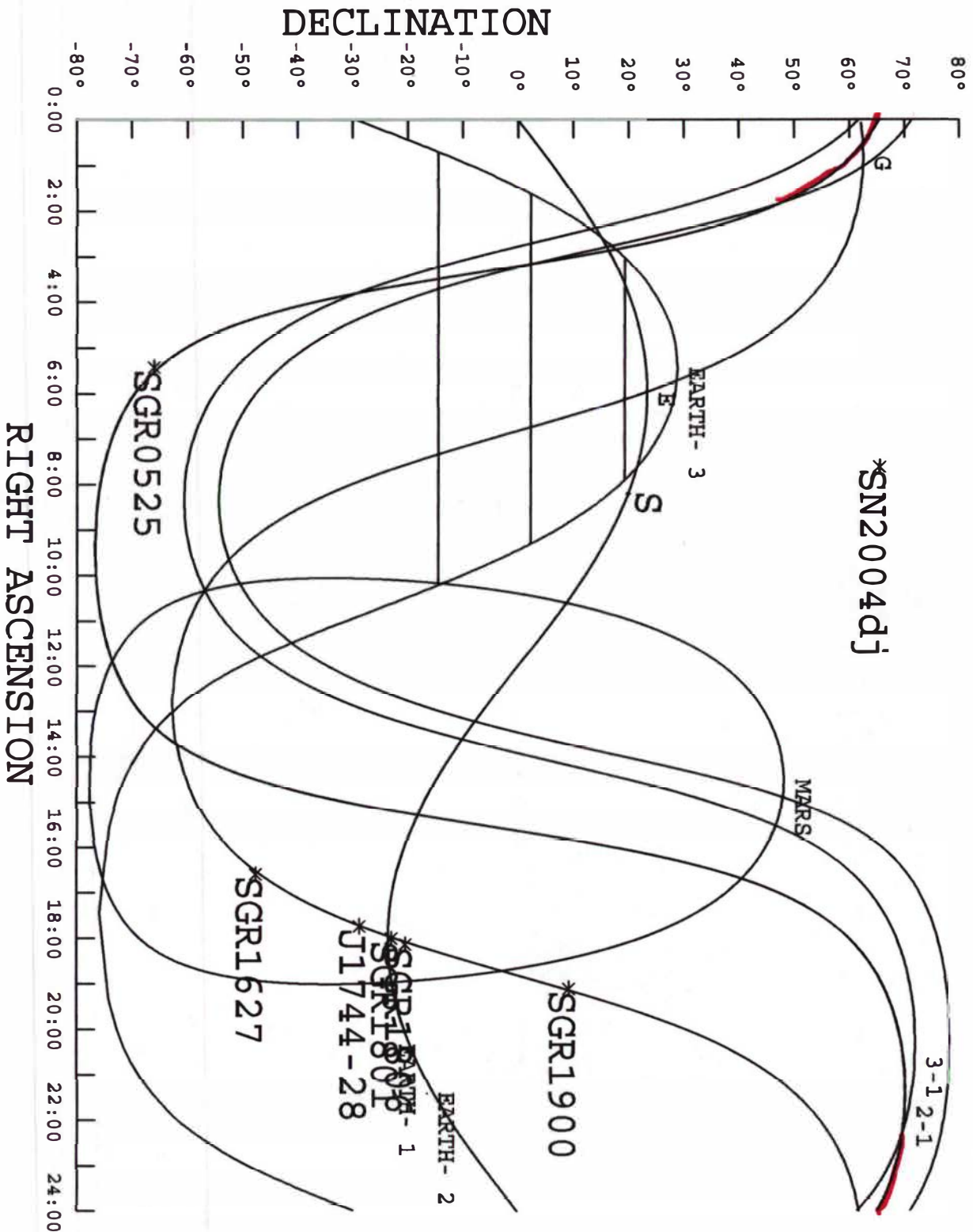
1 KONUS2

2 MO

3 HESSI

EVENT OF JUL 23, 2004 4:06

10/ 8/ 4



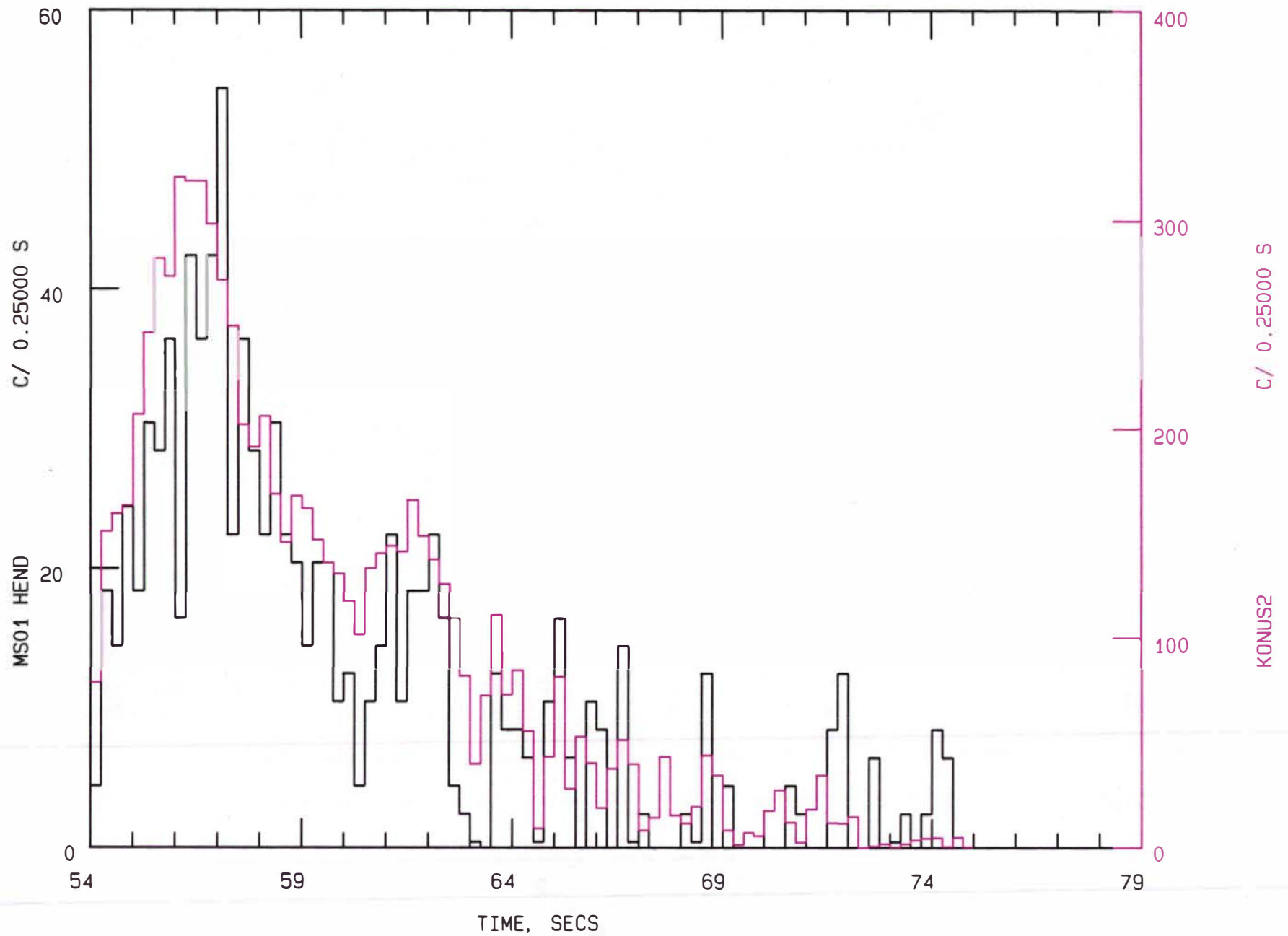
MS01 HEND -KONUS2

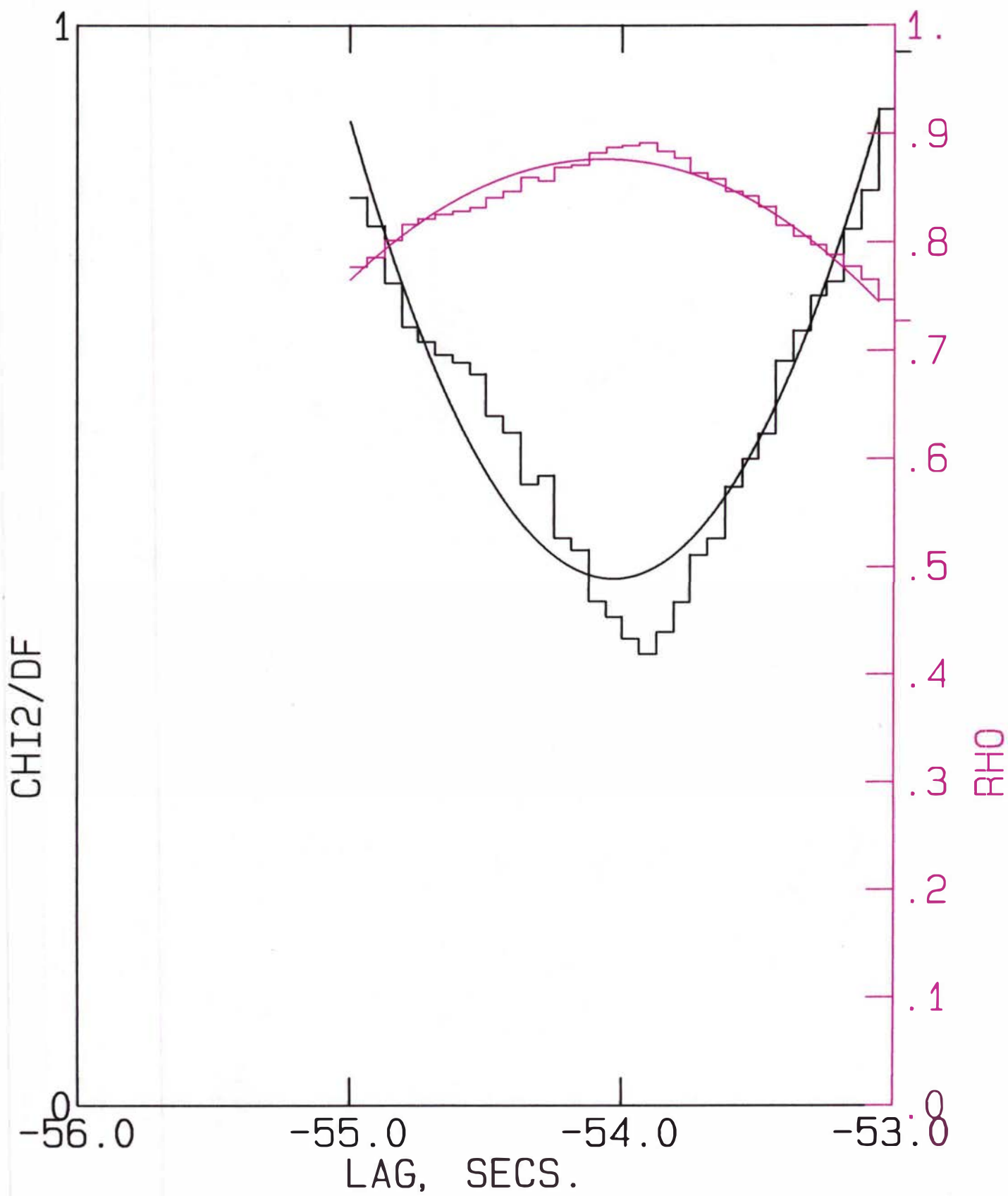
CORRELATION

23/07/04

14811.351

10/ 8/ 4





KONUS2

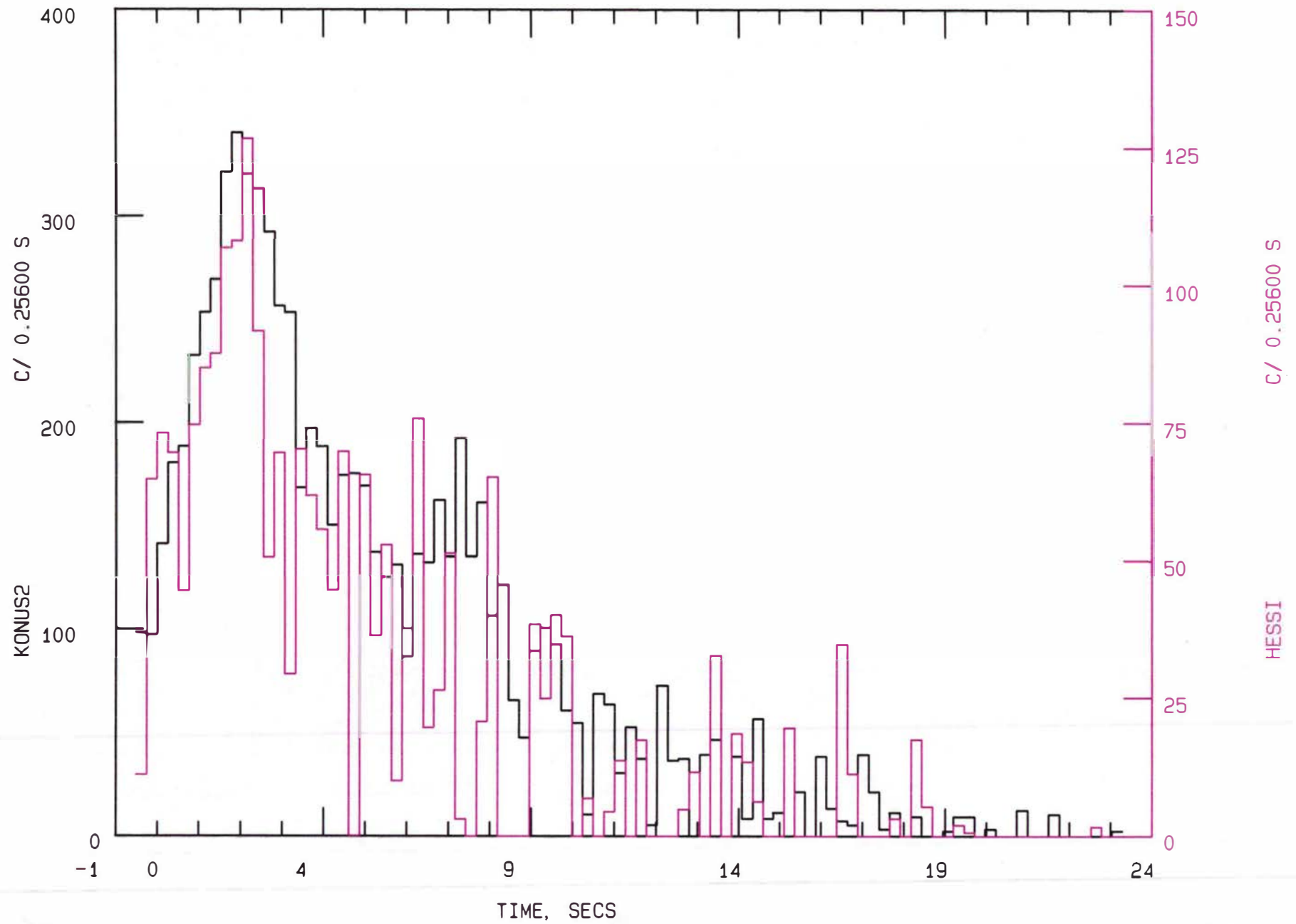
-HESSI

CORRELATION

23/07/04

14795.564

10/ 8/ 4



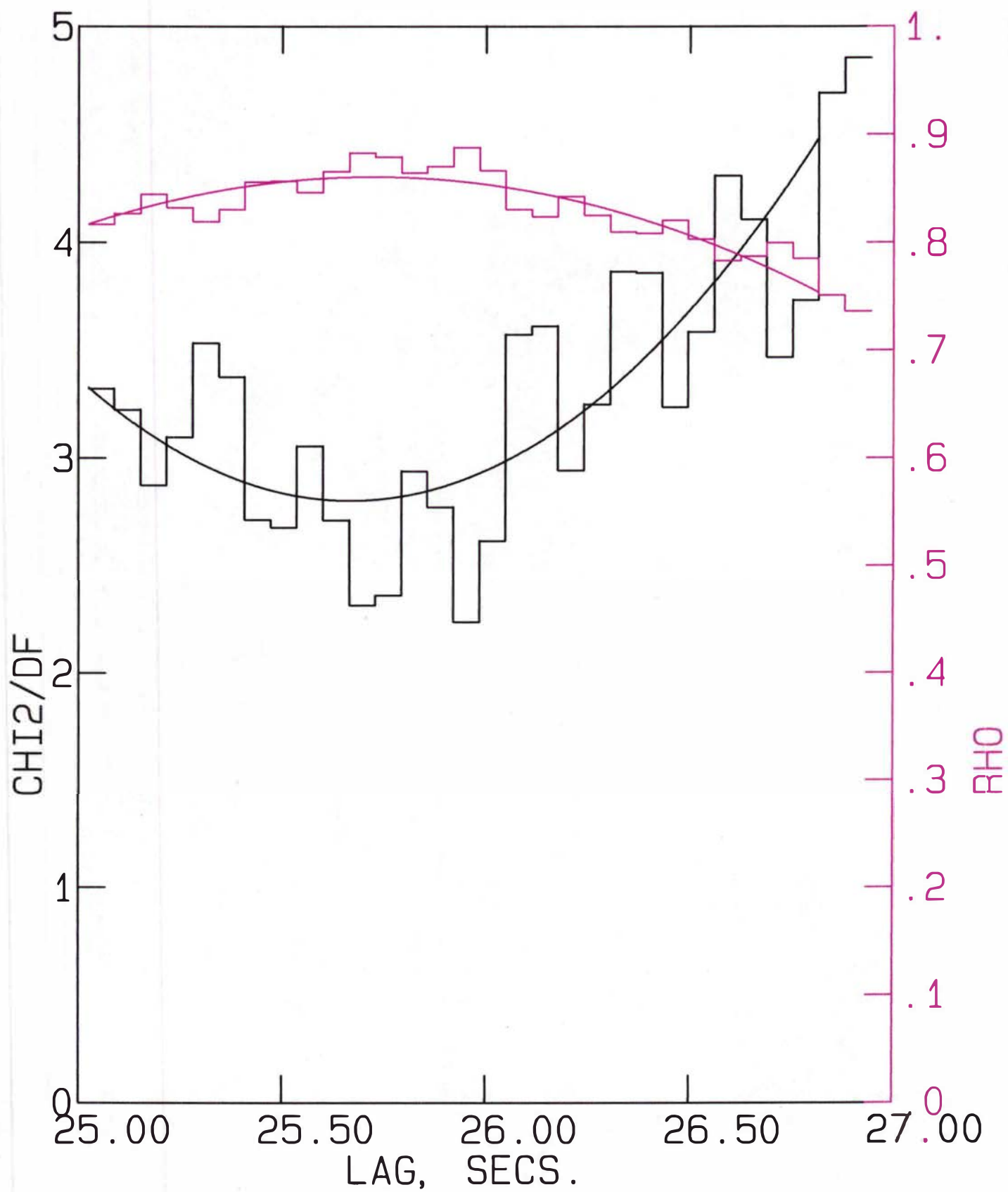
KONUS2

-HESSI

CORRELATION

23/07/04

14795.564



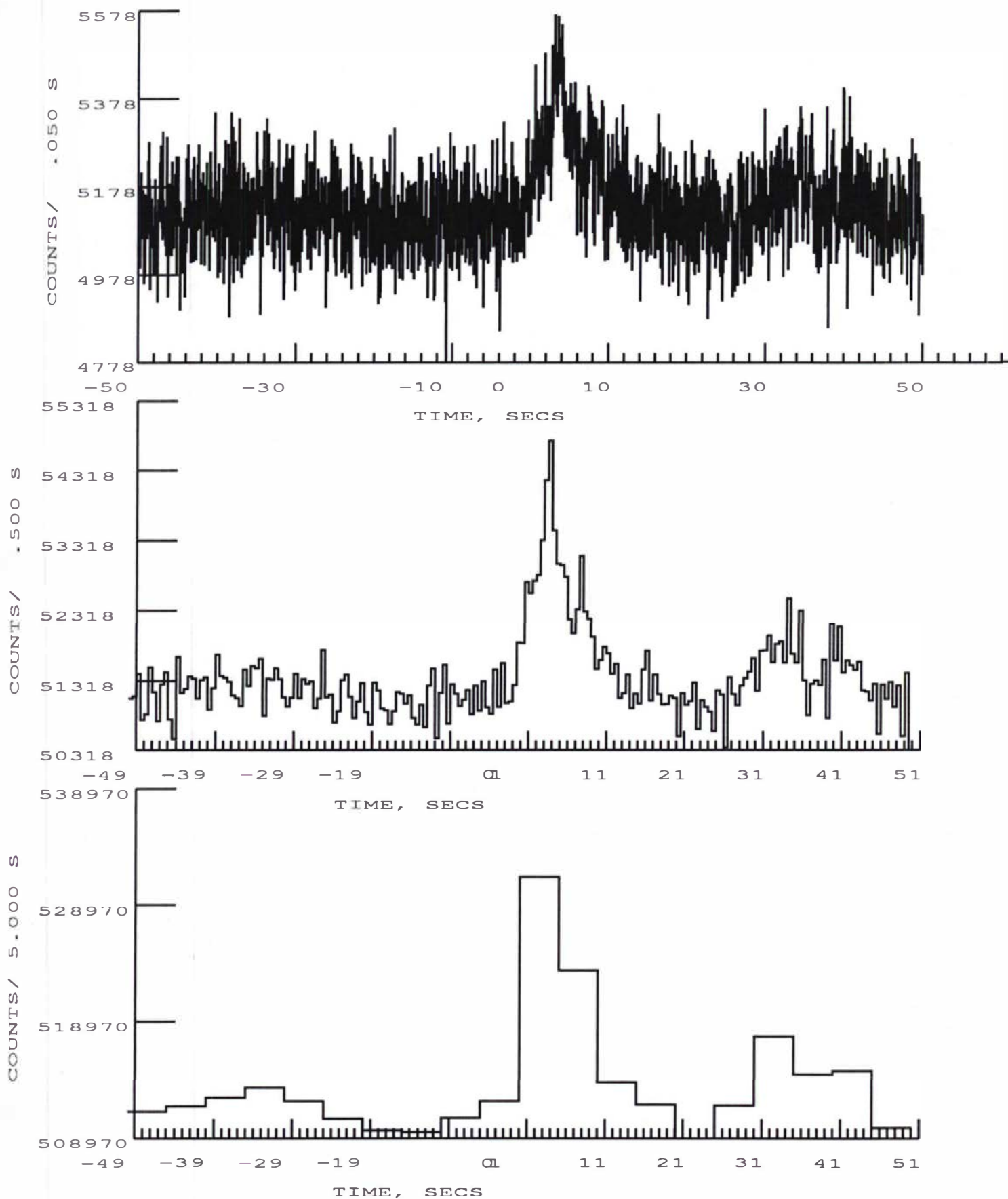
INTEGRAL

23/07/04

14795.000

04:06:35.0

26/09/13



HESSI

23/07/04 14770.000 (konus_20040723_14795)

50- 200 keV

COUNTS/0.064 S

100

125

75

50

5

10

15

20

25

30

35

40

45

50

TIME, SECS

09/08/04

KONUS2

23/07/04

76764.033

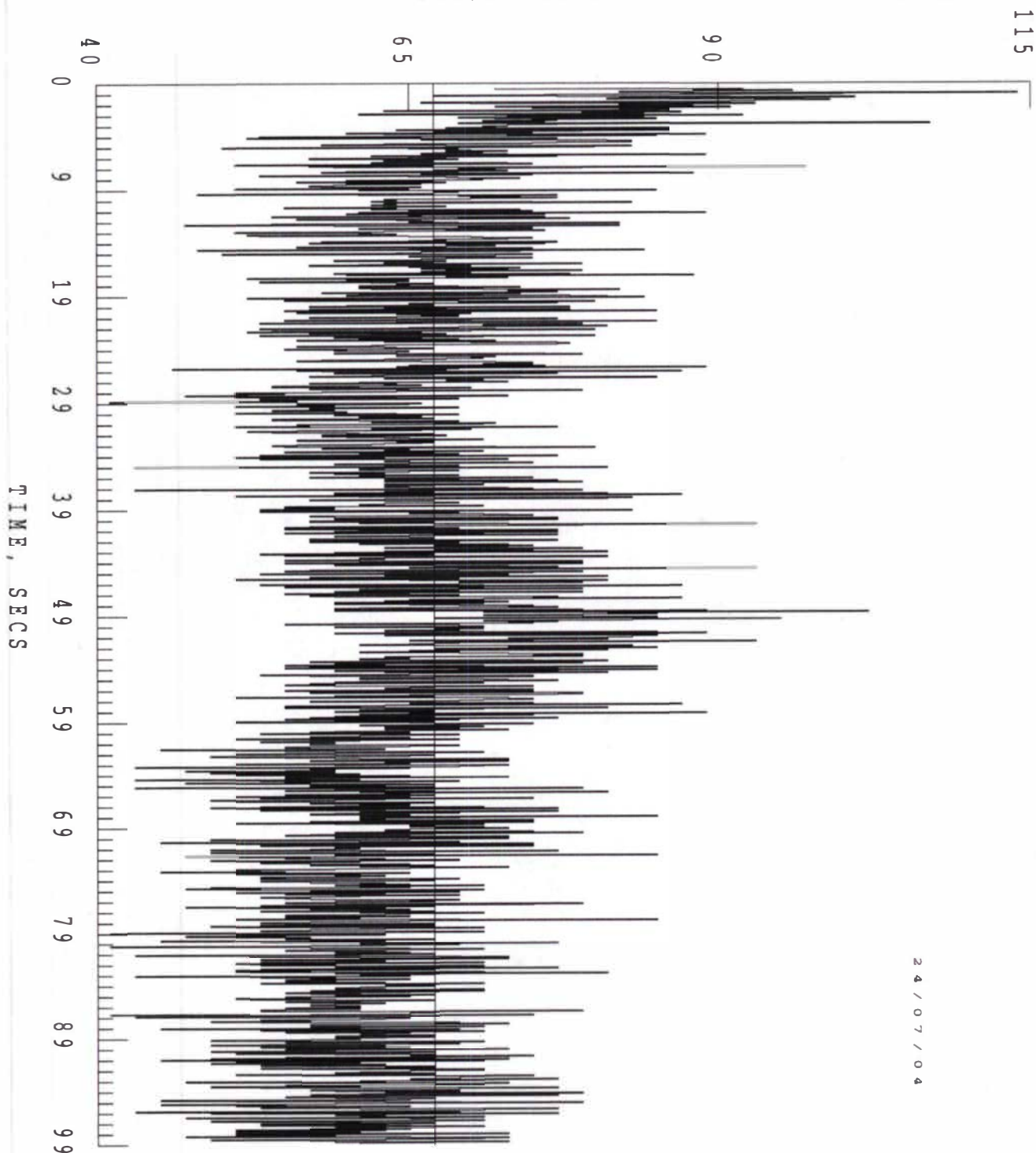
50 - 200 keV

21:19:24

Solar according
to RHESSI

Not in either
Konus hot

COUNTS/0.064 S



KONUS HRES 20040723 76764

TRIGGER TIME: 23/07/04 DOY 205 Julian 2453211.38847 UT = 21.323 21:19:24 (76764.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

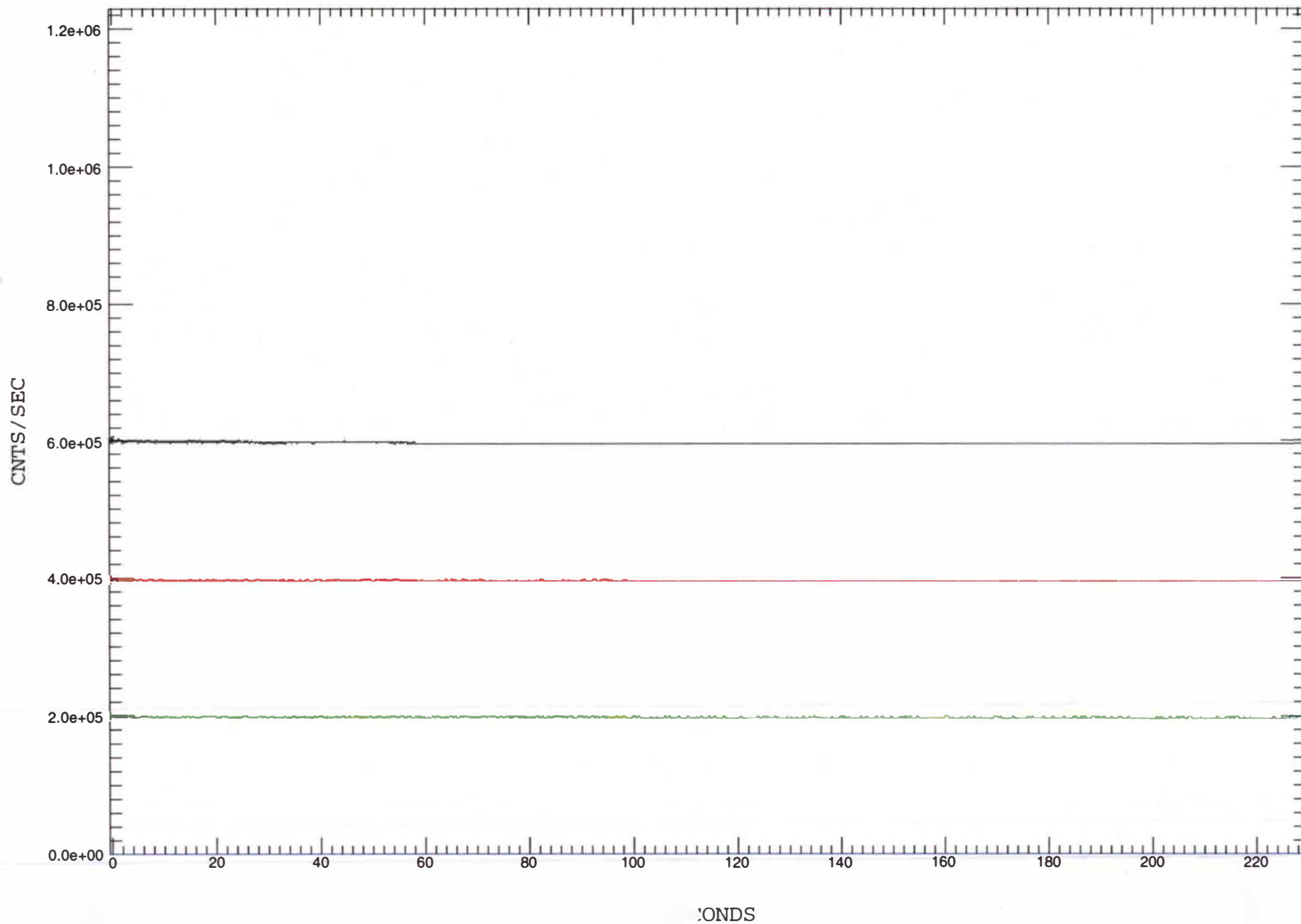
Chan 4 : [> 10 MeV]

Channel 1 + 594000

Channel 2 + 396000

Channel 3 + 198000

Channel 4 + 0



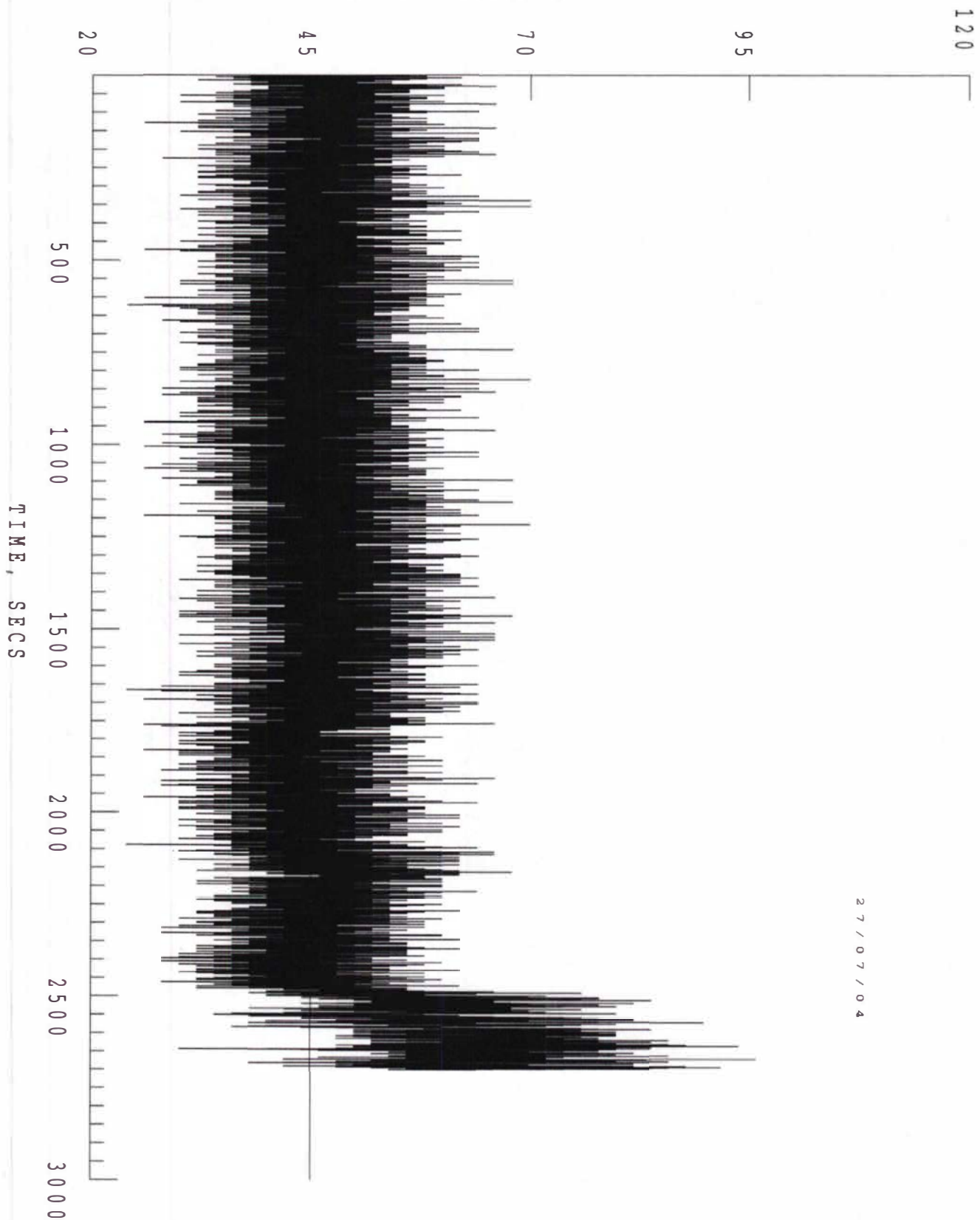
MS01

23/07/04

75390.234

50 - 3000 keV

COUNTS/0.250 S



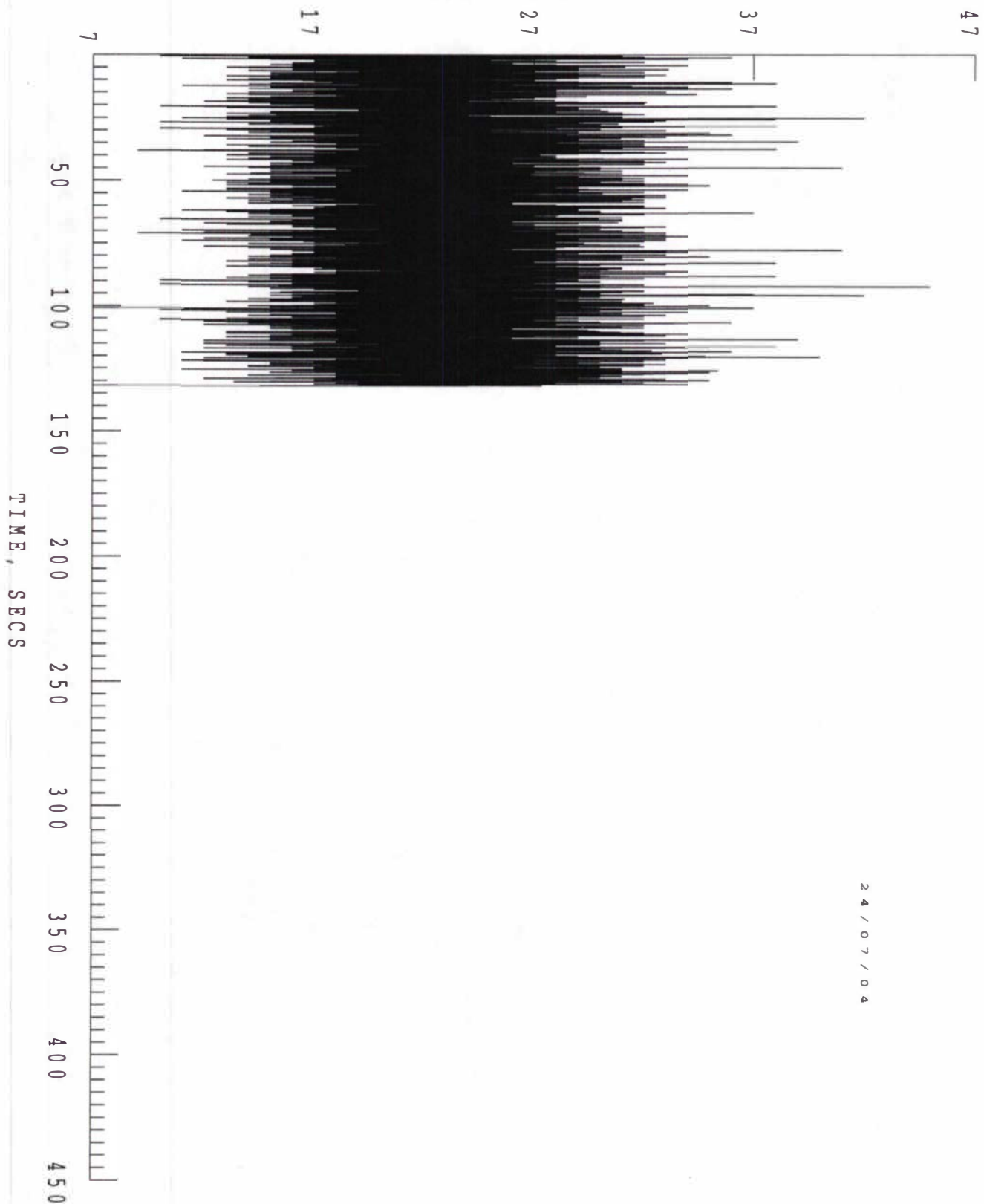
27/07/04

HESSI

23/07/04 76564.000 (KONUS2_20040723_76764)

25- 150 keV

COUNTS/0.031 S



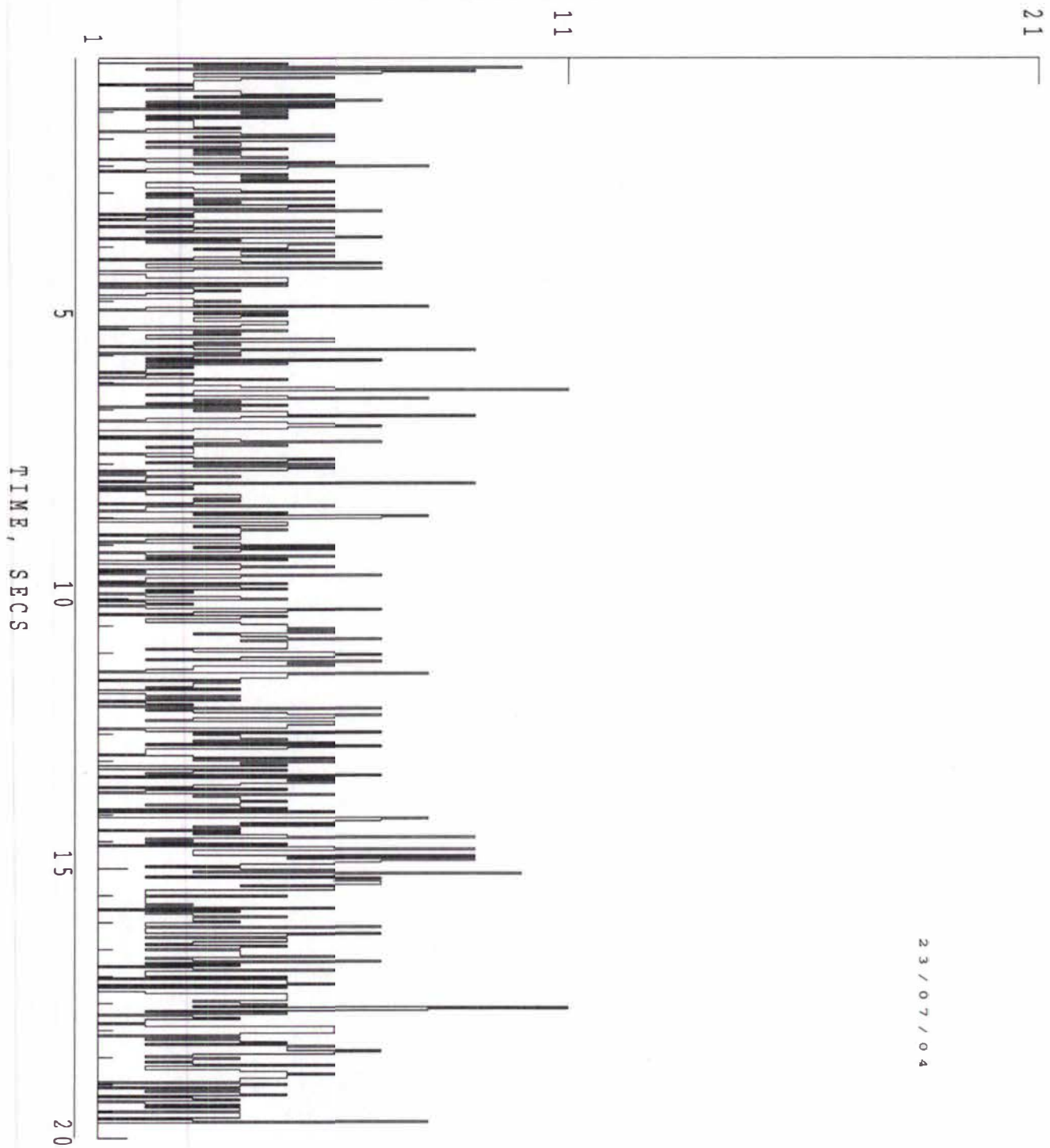
MO

23/07/04

82936.705

116- 337 keV

COUNTS/0.032 S



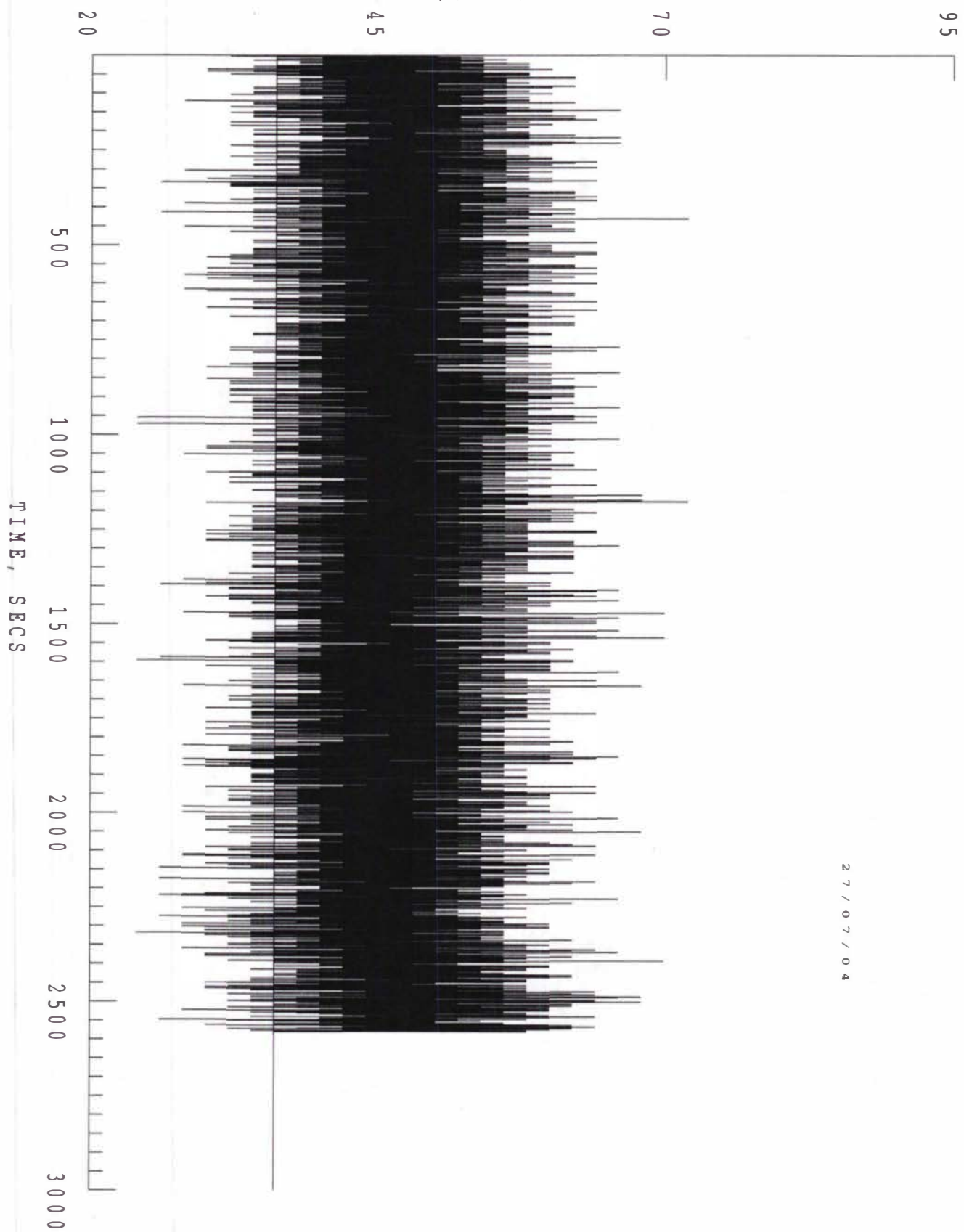
MS01

23/07/04

81630.113

50 - 3000 keV

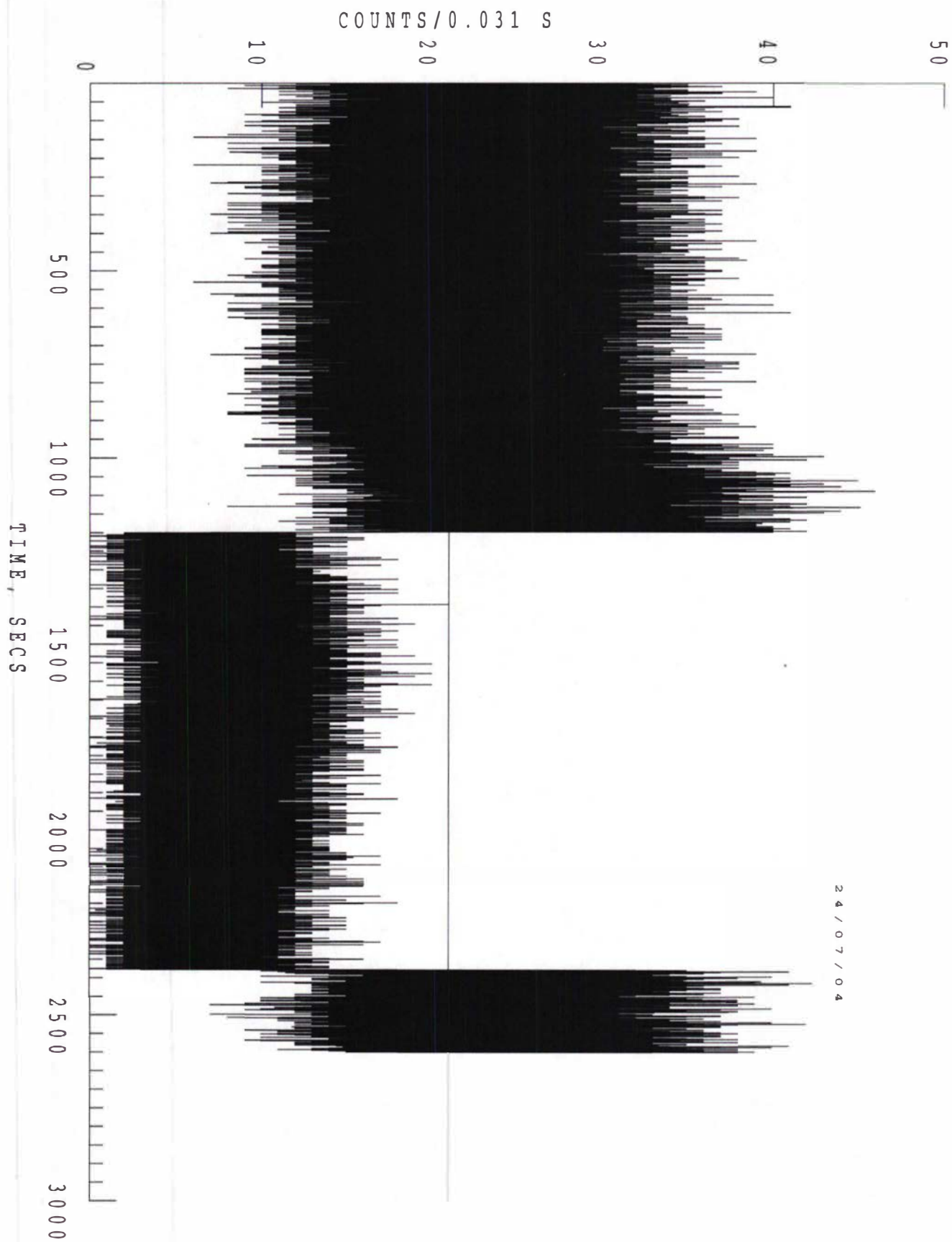
COUNTS/0.250 S

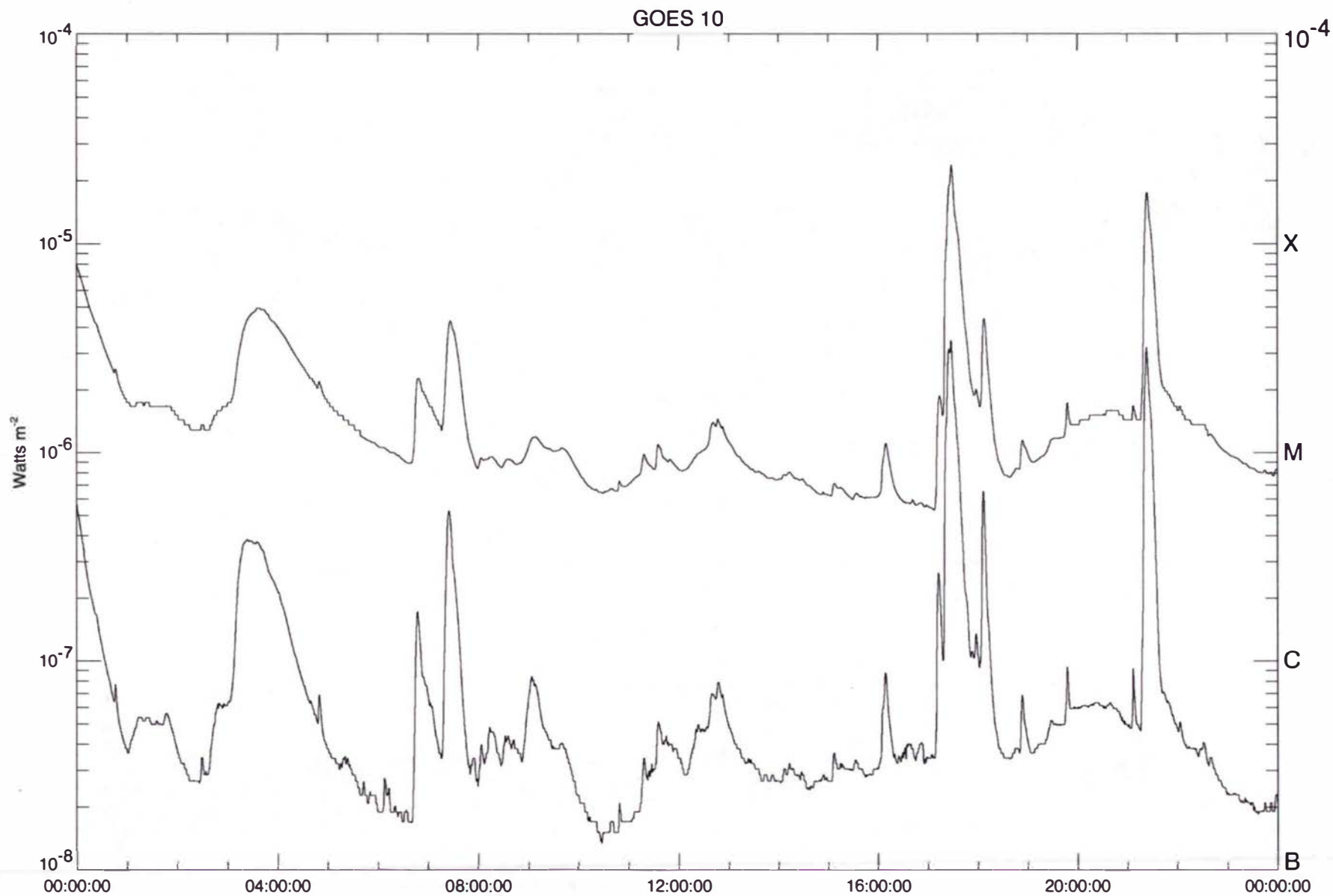


HESSI

23/07/04 81636.000 (MO_GE_20040723_82936)

25- 150 keV





Data Start: 04/07/23, 0000:00

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted

Plot created: 04/07/24, 0828

Sample average = 10

From hops@space.mit.edu Fri Jul 23 23:08:37 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Sat, 24 Jul 2004 06:09:28 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Sat Jul 24 06:09:28 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13210 TJD; 206 DOY; 04/07/24
GRB_TIME: 16084.26 SOD {04:28:04.26} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

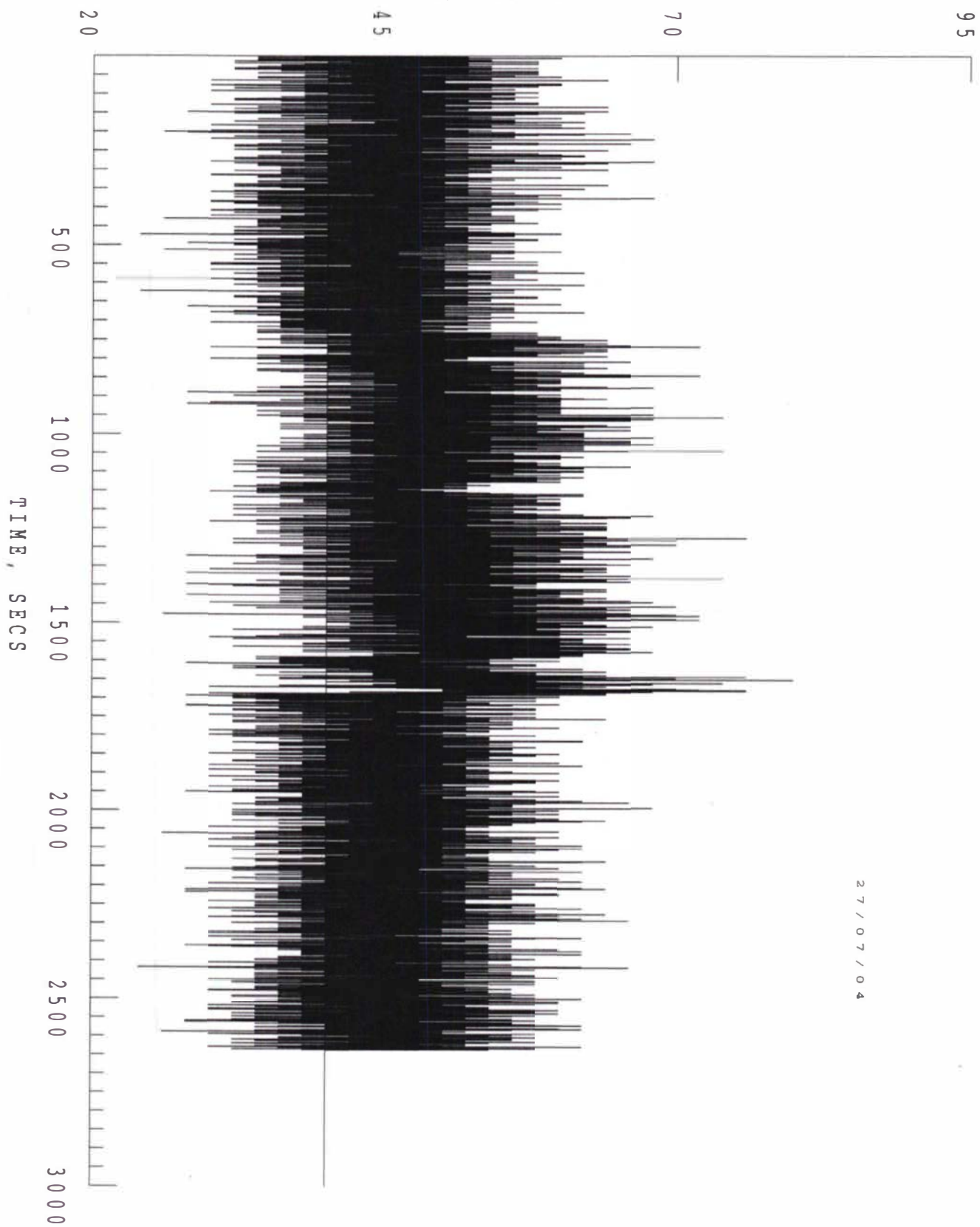
MS01

24/07/04

14729.753

50 - 3000 keV

COUNTS/0.250 S



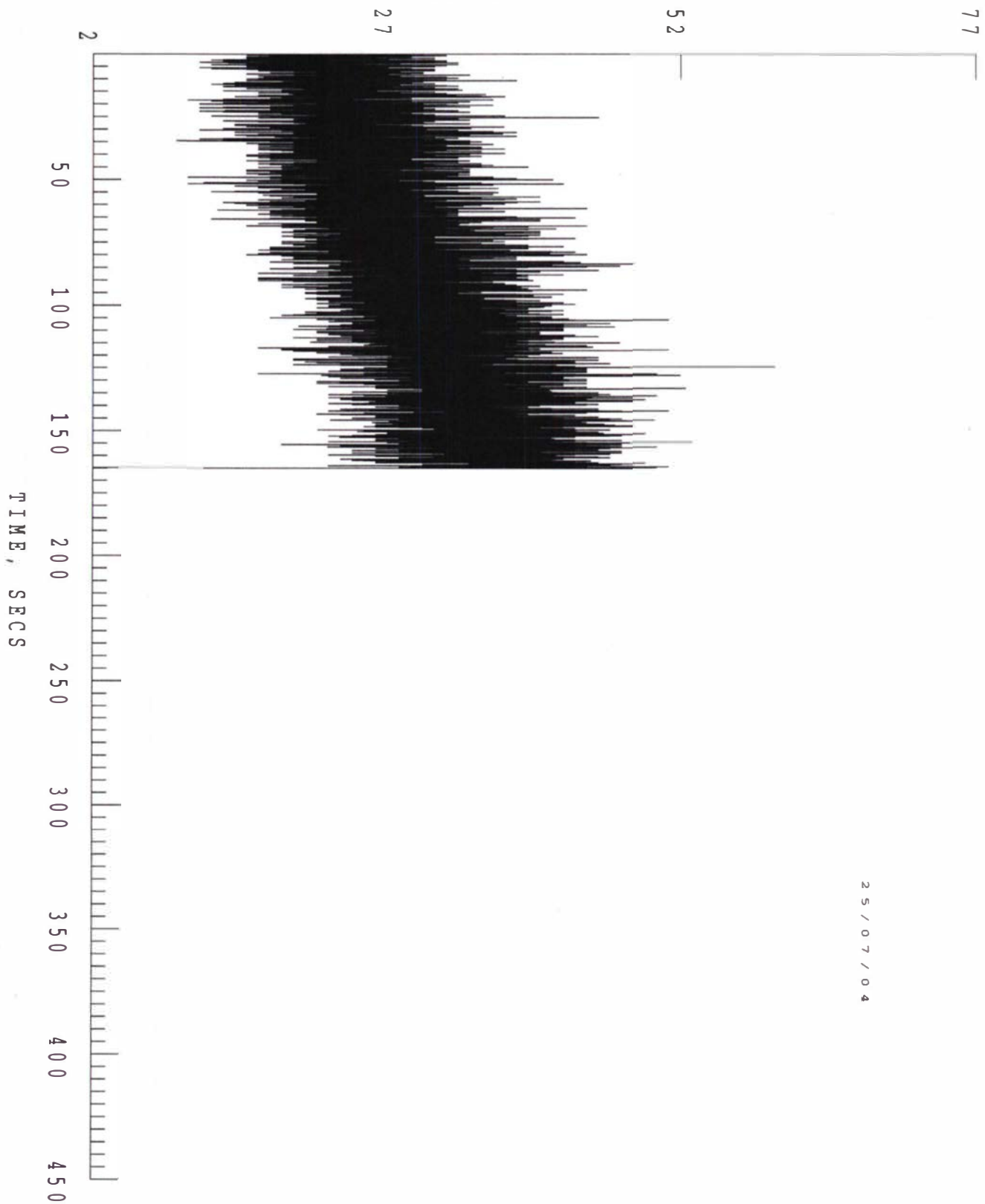
27/07/04

HESSI

24/07/04 15884.000 (GHETE_9999_1_20040724_16084)

25- 150 keV

COUNTS/0.031 S



KONUS2

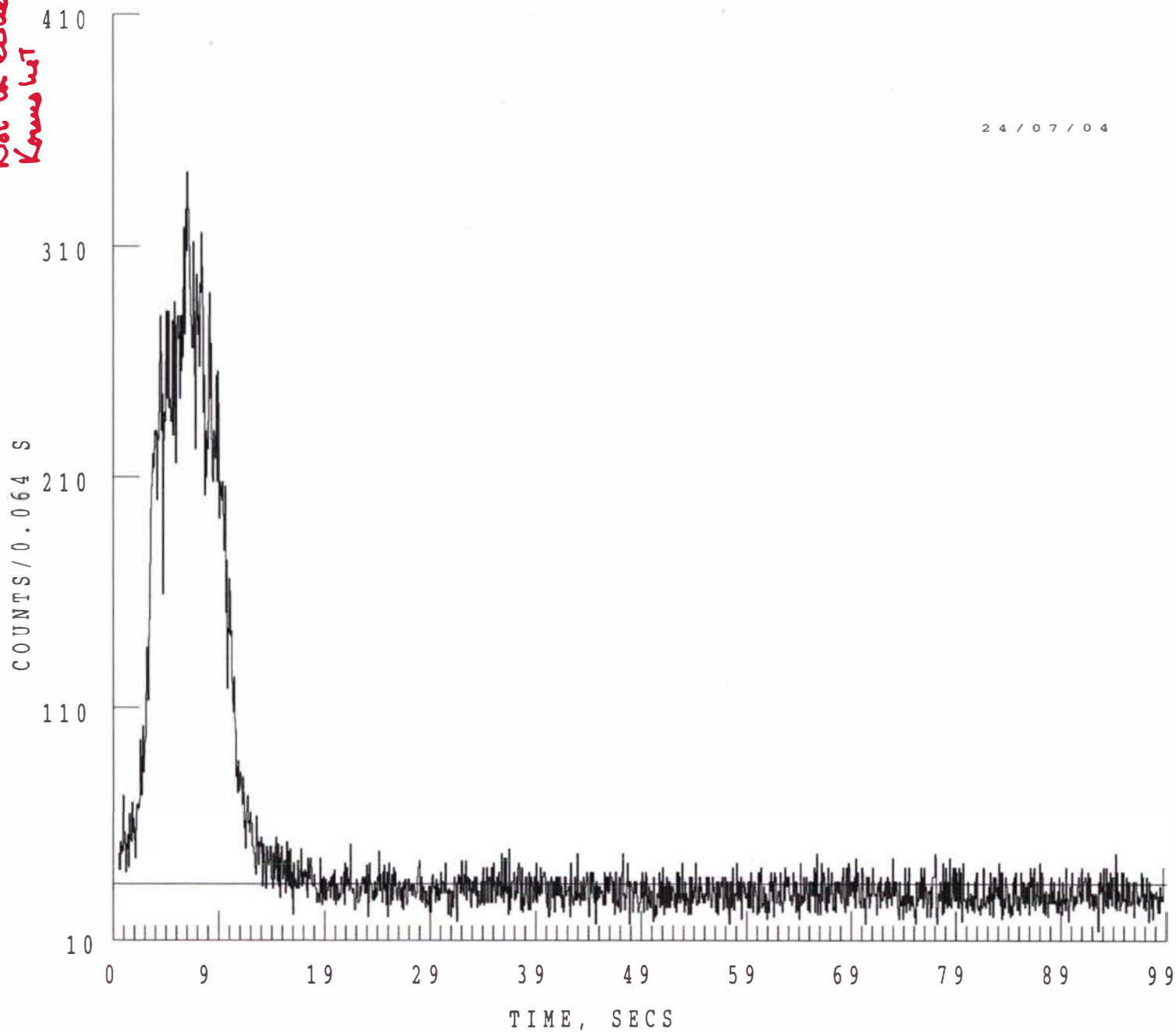
24/07/04 48869.869

50- 200 keV 13:34:29

Solar according
to RHESSI

Not in either
Konus list

24/07/04



KONUS HRES 20040724 48869

TRIGGER TIME: 24/07/04 DOY 206 Julian 2453212.06561 UT = 13.575 13:34:29 (48869.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

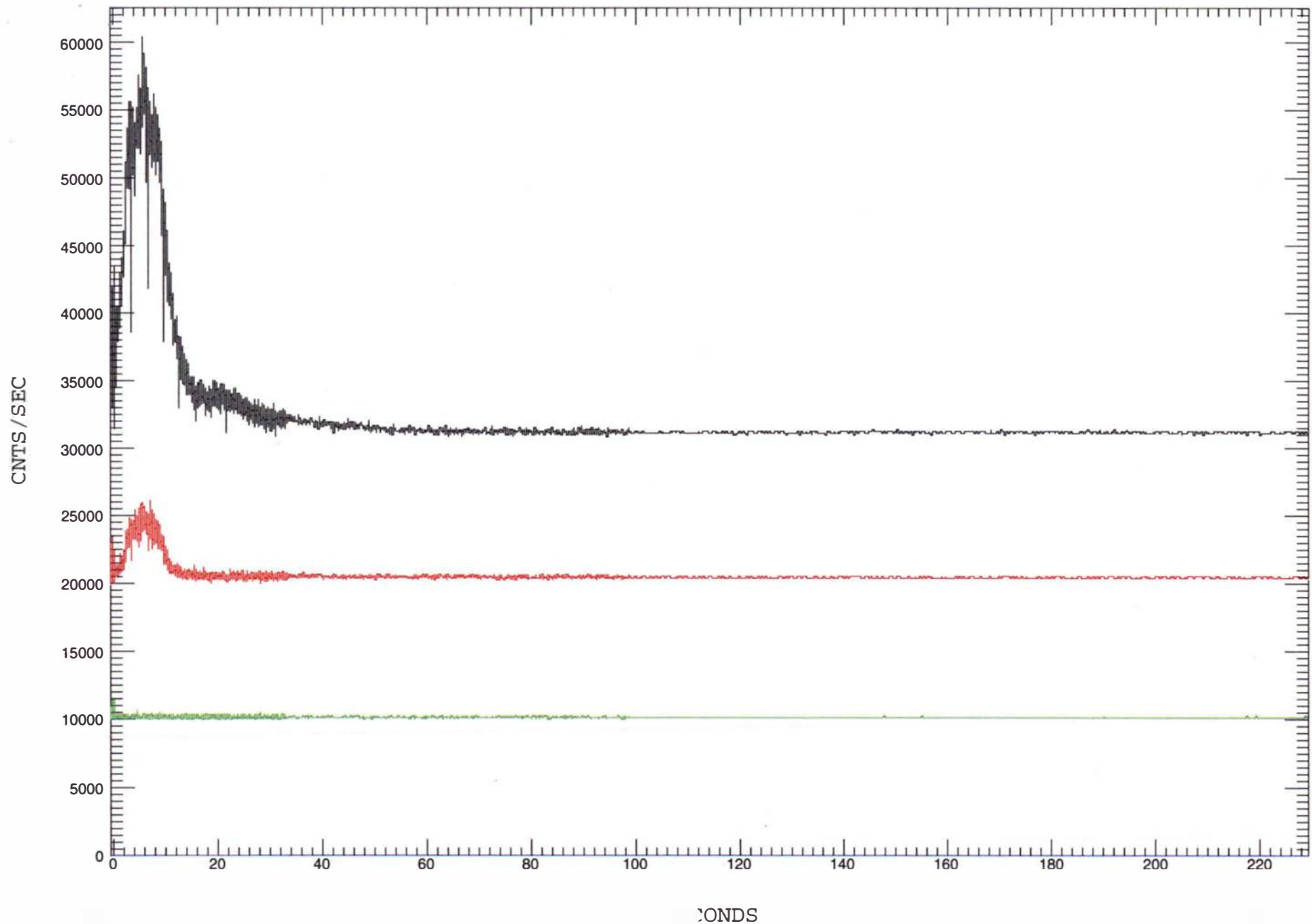
Chan 4 : [> 10 MeV]

Channel 1 + 30000

Channel 2 + 20000

Channel 3 + 10000

Channel 4 + 0



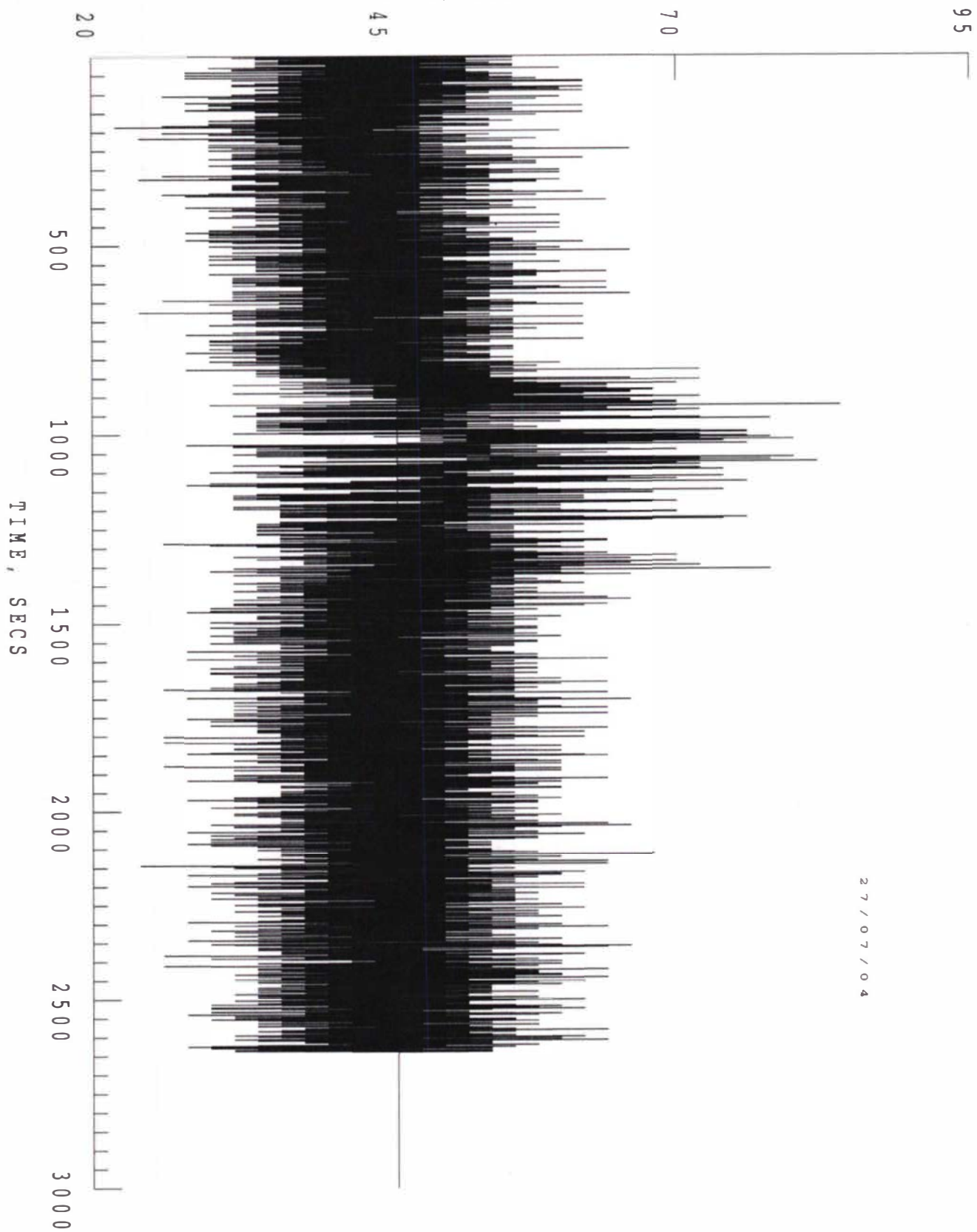
MS01

24/07/04

47549.149

50 - 3000 keV

COUNTS/0.250 S

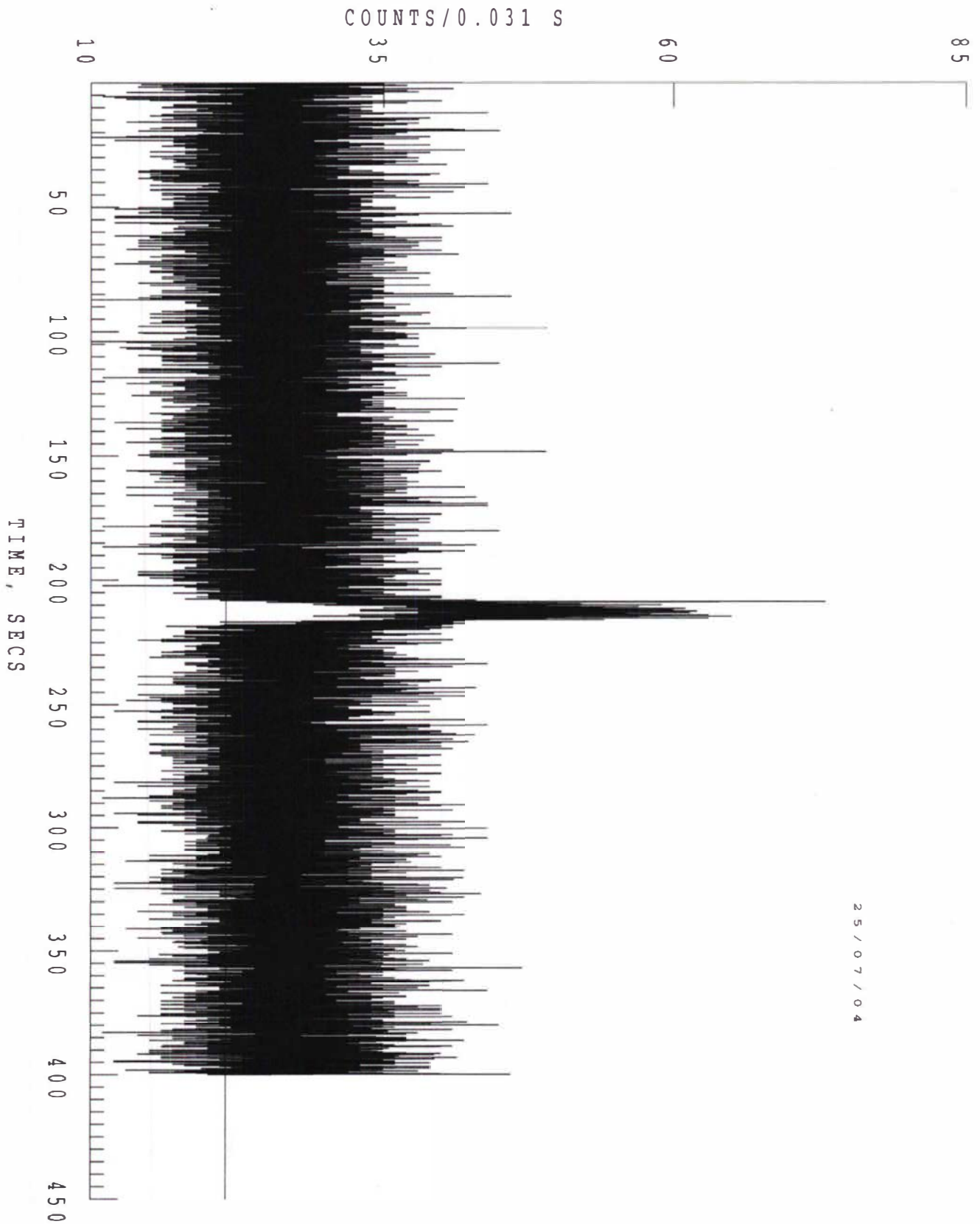


27/07/04

HESSI

24/07/04 48669.000 (KONUS2_20040724_48869)

25- 150 keV



KONUS2

24/07/04

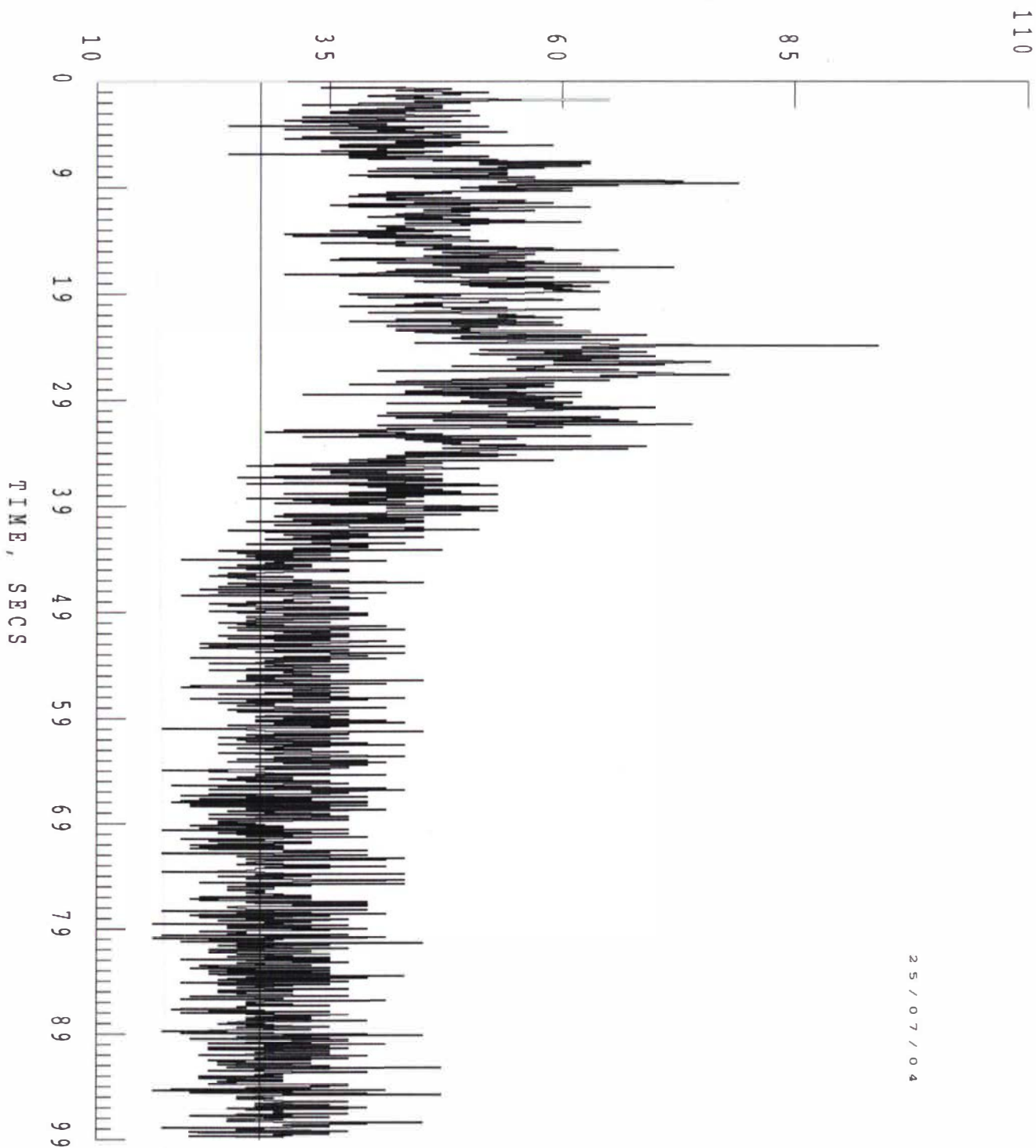
67467.795

50 - 200 keV

18:44:27

Prob solar
Not in either
Konus hot

COUNTS/0.064 S



25 / 07 / 04

KONUS HRES 20040724 67467

TRIGGER TIME: 24/07/04 DOY 206 Julian 2453212.28087 UT = 18.741 18:44:27 (67467.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

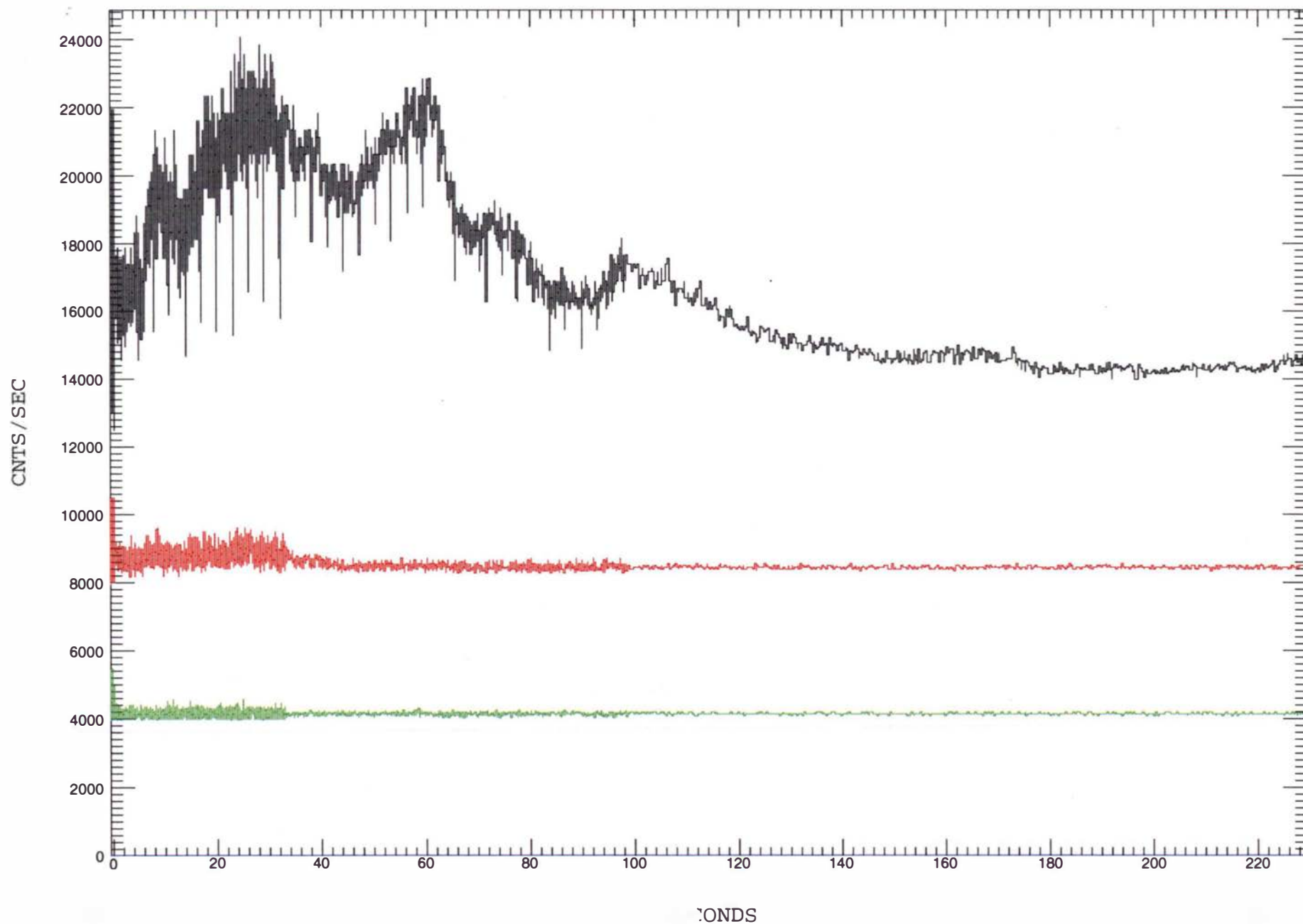
Chan 4 : [> 10 MeV]

Channel 1 + 12000

Channel 2 + 8000

Channel 3 + 4000

Channel 4 + 0



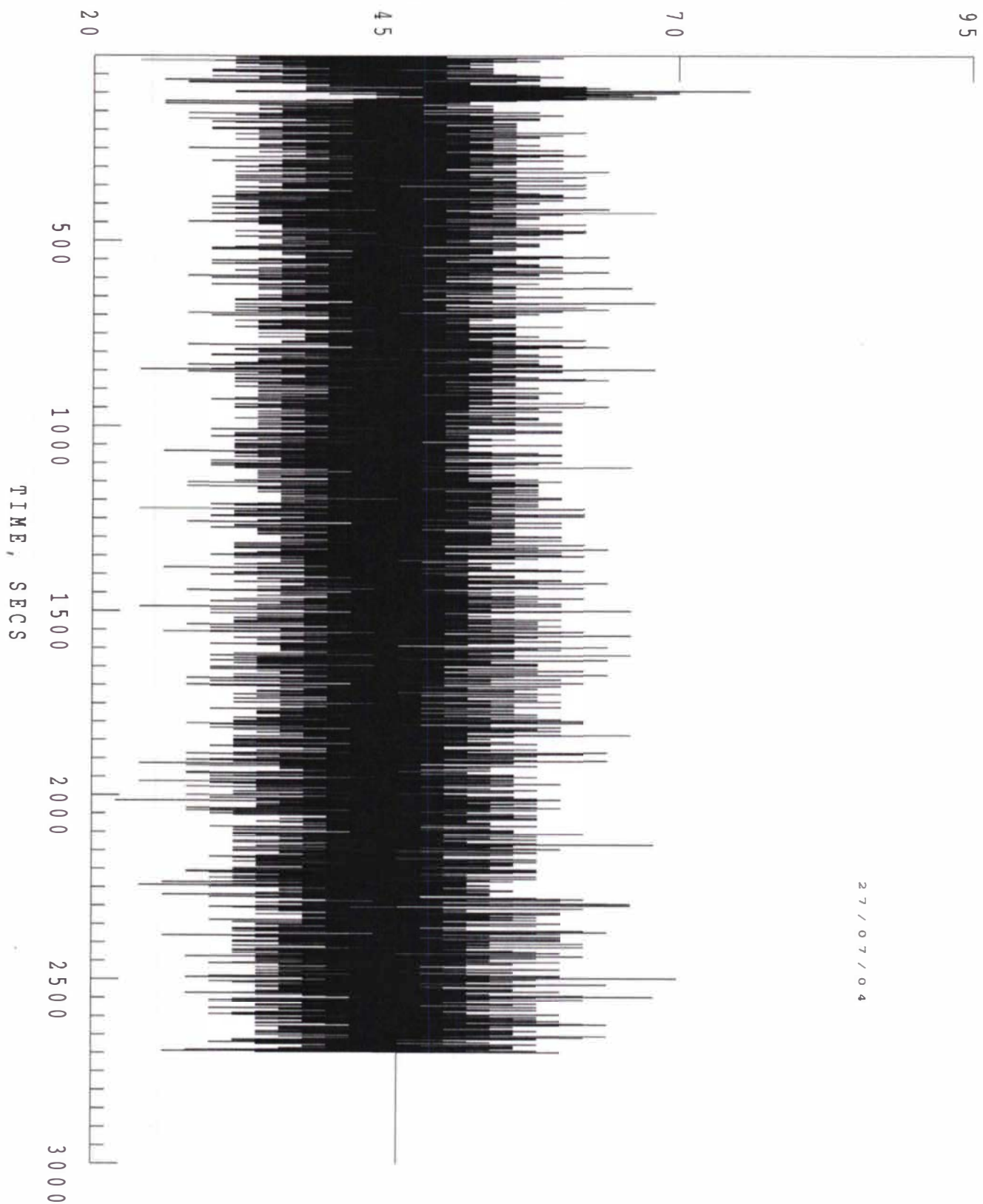
MS01

24/07/04

66088.801

50 - 3000 keV

COUNTS/0.250 S



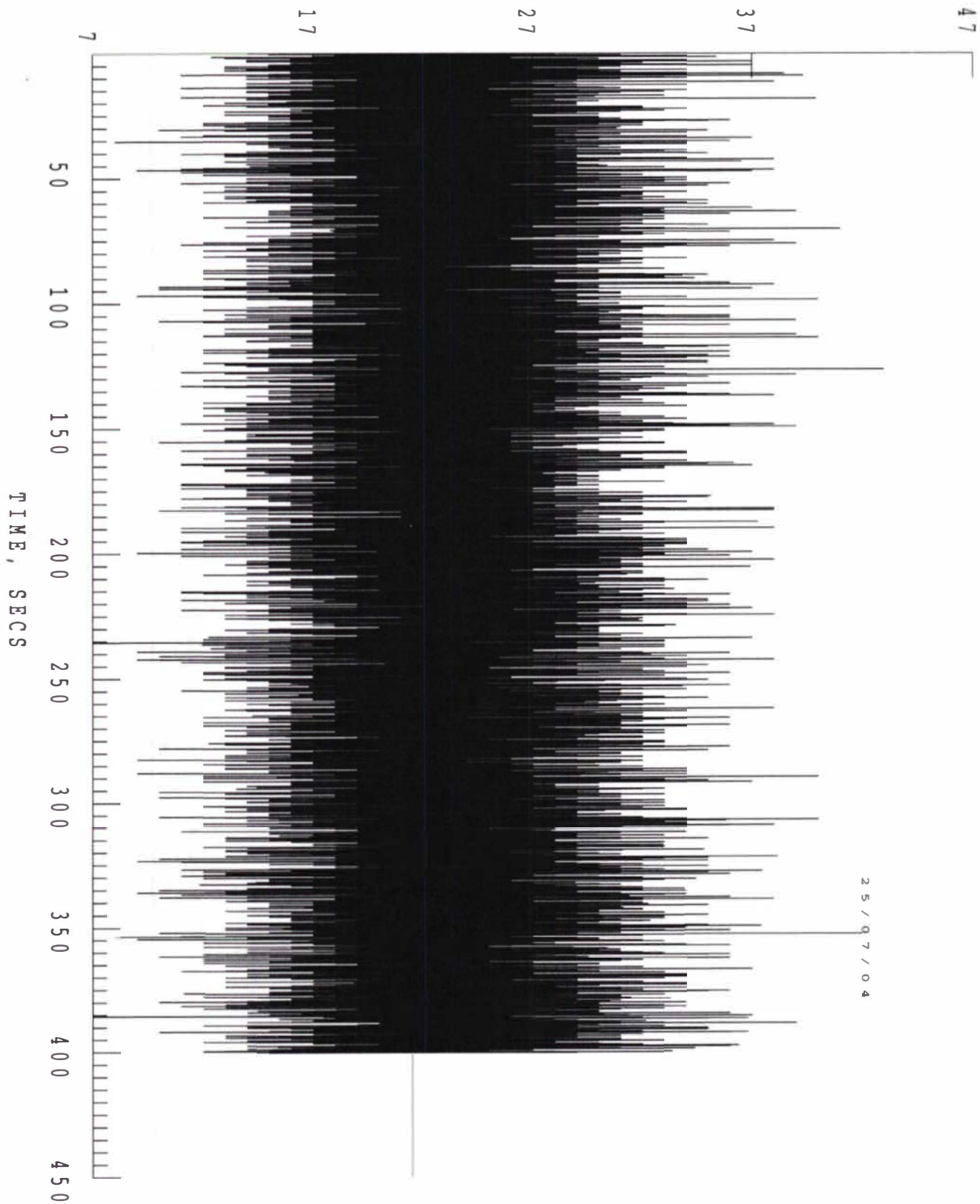
27/07/04

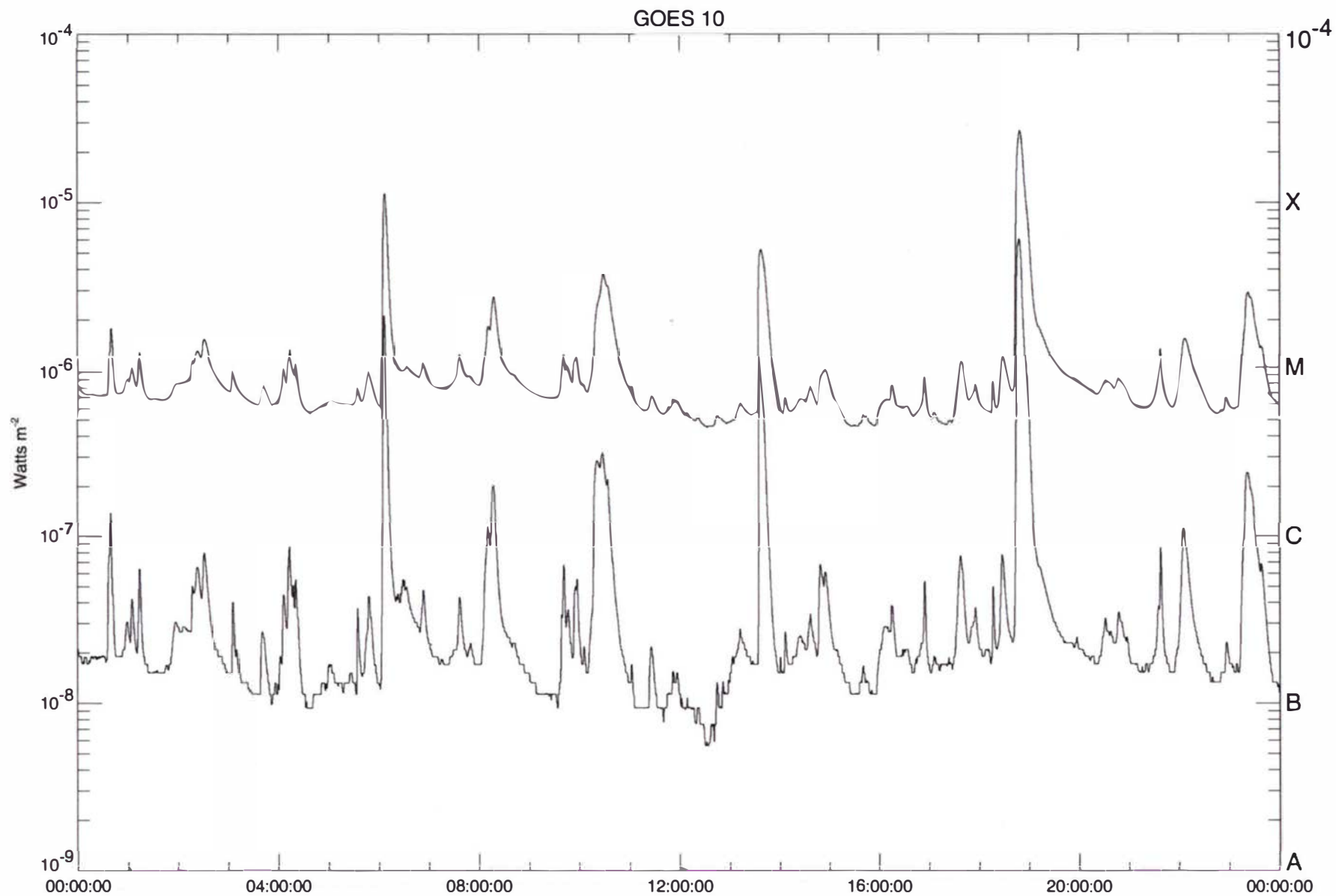
HESSI

24/07/04 67267.000 (KONUS2_20040724_67467)

25- 150 keV

COUNTS/0.031 S





Data Start: 04/07/24, 0000:00

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Plot created: 04/07/25, 0828

Sample average = 10

KONUS2

25/07/04

1734.446

50 - 200 keV

00:28:54

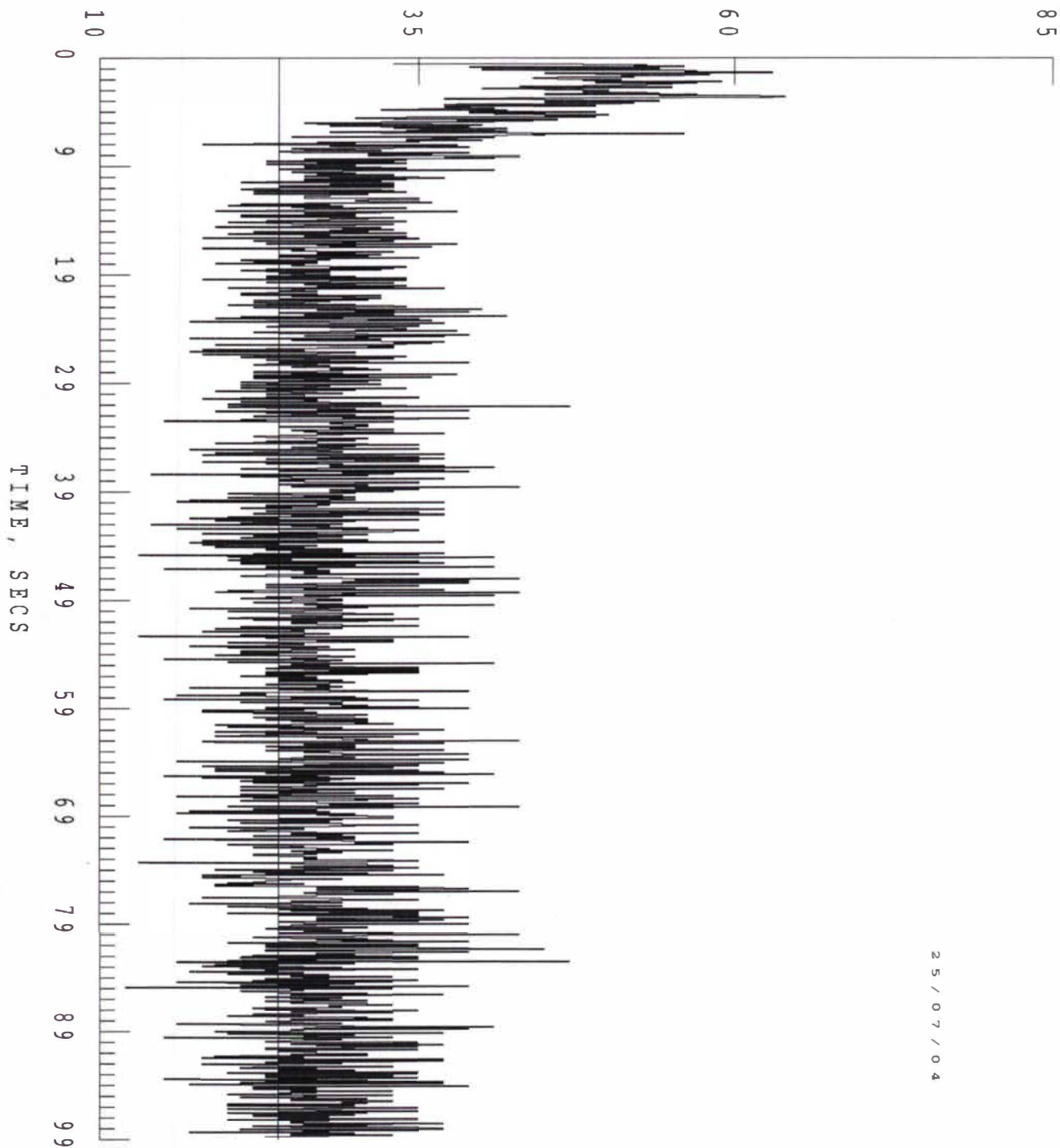
Solar according to

RHESSI

Not in either

Konus list

COUNTS/0.064 S



25/07/04

KONUS HRES 20040725 01734

TRIGGER TIME: 25/07/04 DOY 207 Julian 2453212.52007 UT = 00.482 00:28:54 (01734.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

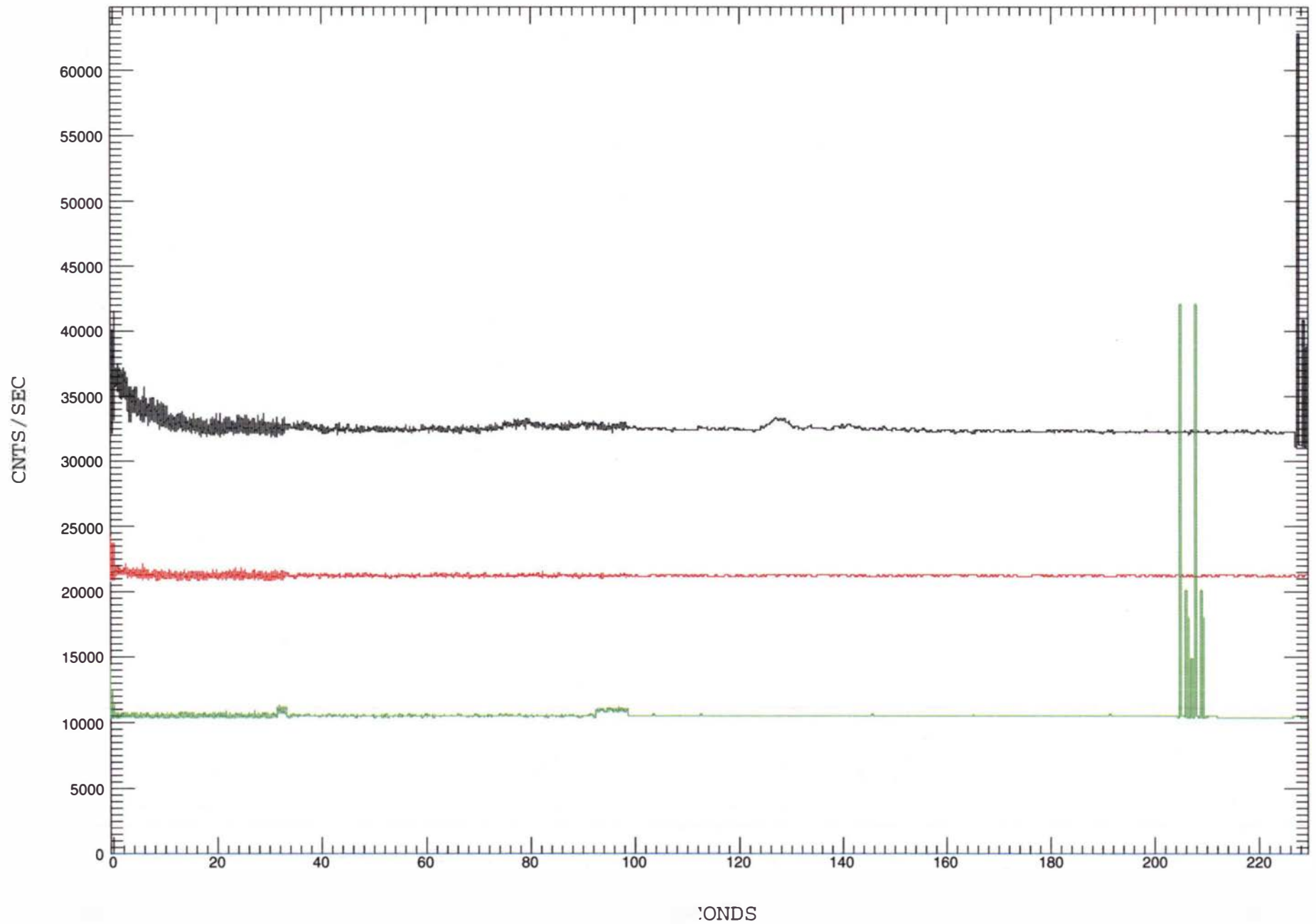
Chan 4 : [> 10 MeV]

Channel 1 + 31200

Channel 2 + 20800

Channel 3 + 10400

Channel 4 + 0



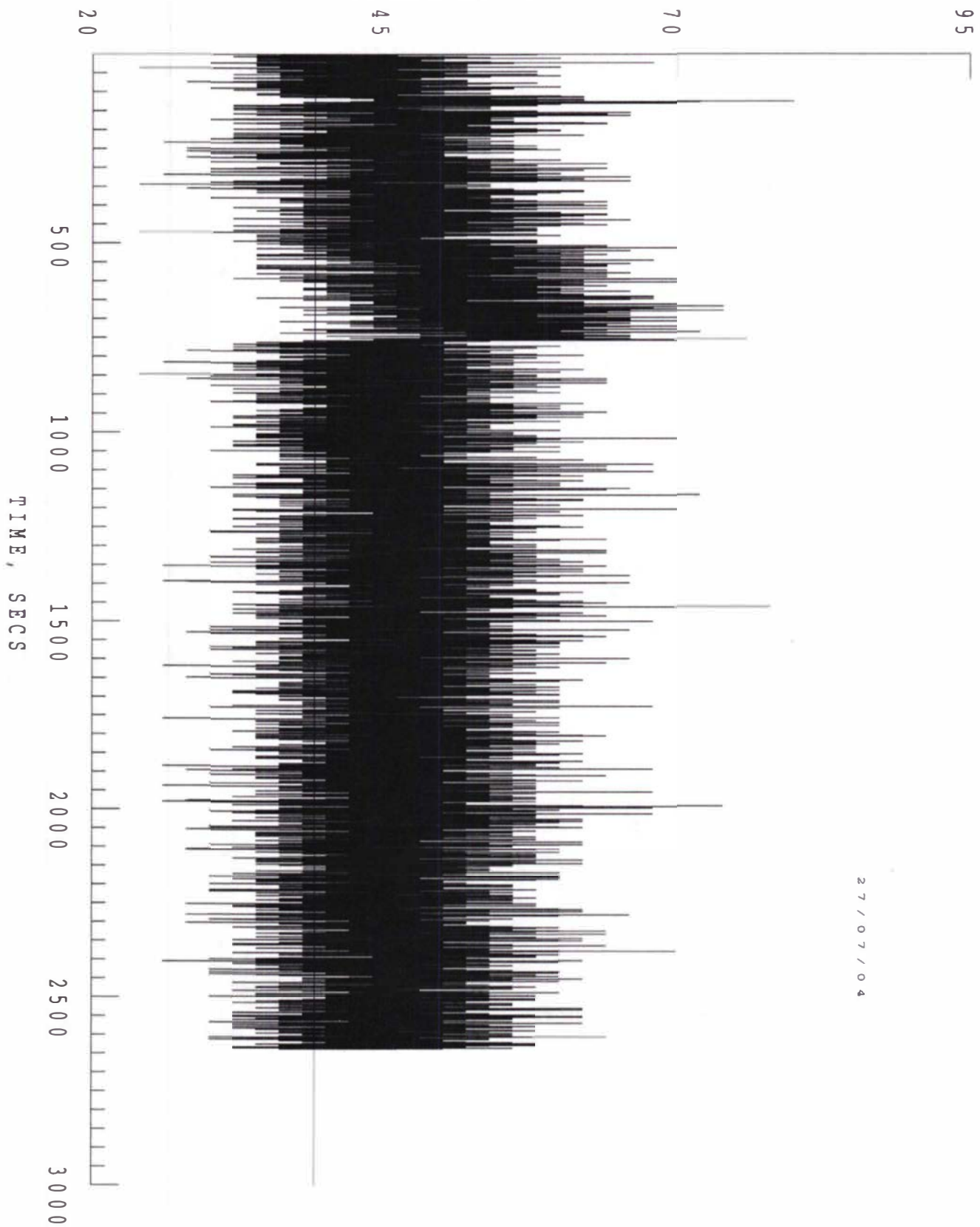
MS01

25/07/04

388.422

50 - 3000 keV

COUNTS/0.250 S



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTOR 2 (KONUS2_20040725_01734)

BEG TIME: 25/07/04 DOY 207 Julian 2453212.51792 UT = 00.430 00:25:48 (01548.000 secs) [sct = 0019 9da6 4d92 2829]
 END TIME: 25/07/04 DOY 207 Julian 2453212.52250 UT = 00.540 00:32:24 (01944.000 secs) [sct = 0019 9da6 652c a47e]

Chan 1:[E1=14 E2=103]

Chan 2:[E3=14 E4=78]

Chan 3:[E5=20 E6=511]

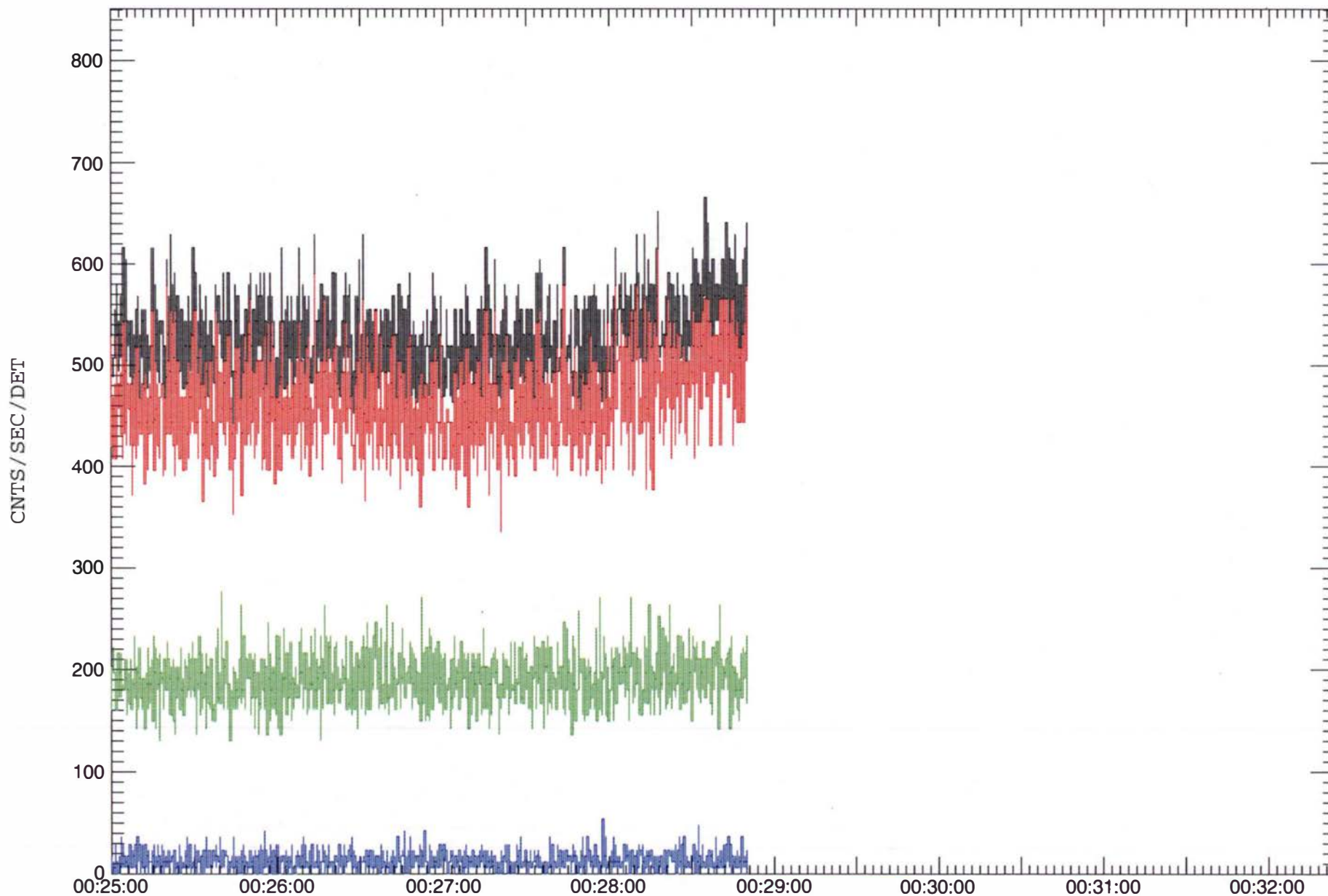
Chan 4:[E6=511 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



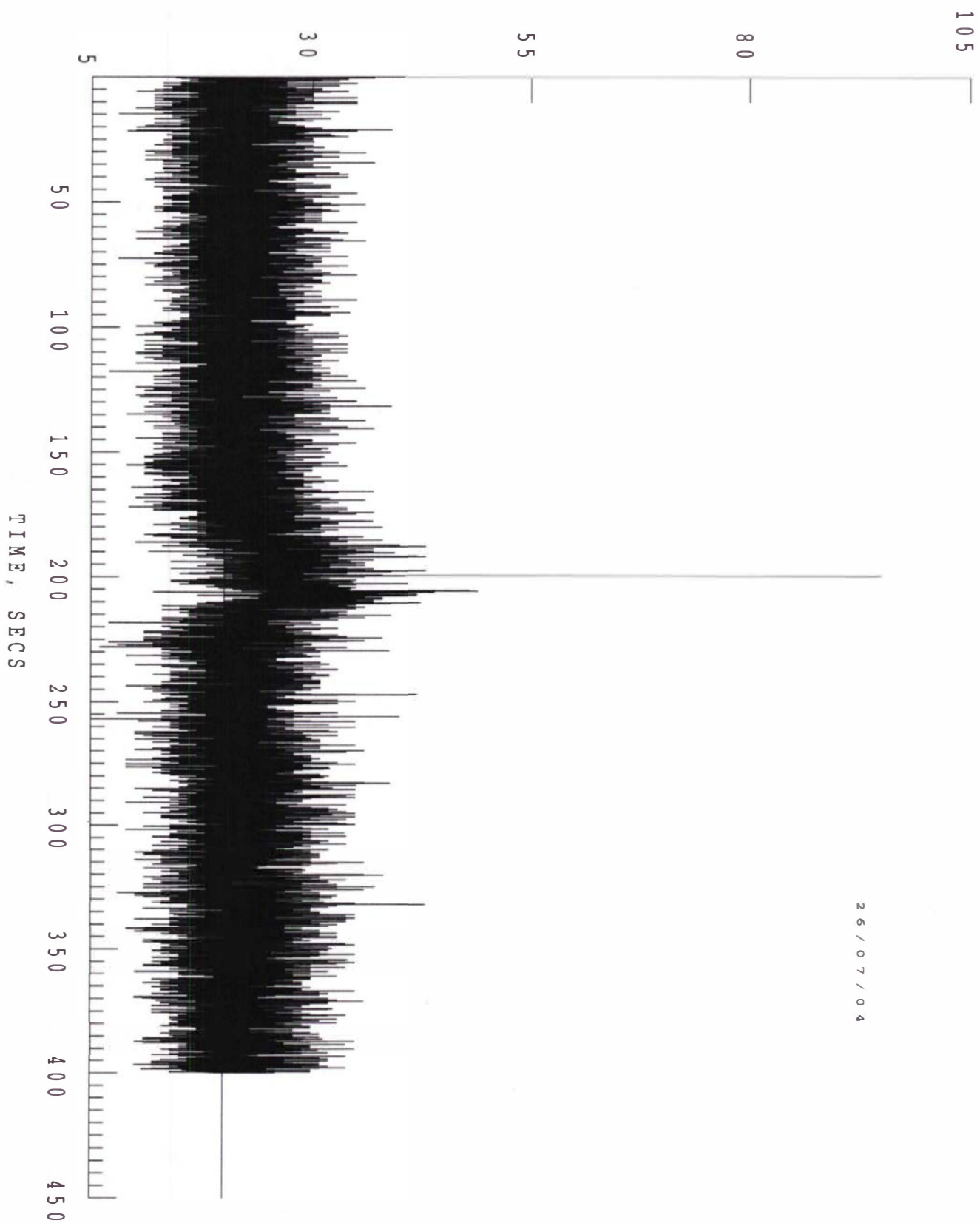
RS UT

HESSI

25/07/04 1534.000 (KONUS2_20040725_01734)

25- 150 keV

COUNTS/0.031 S



25/07/04

From hops@space.mit.edu Mon Jul 26 01:02:28 2004
Date: Mon, 26 Jul 2004 04:03:35 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: khurley@sunspot.ssl.berkeley.edu
Subject: Trigger Notice to IPN

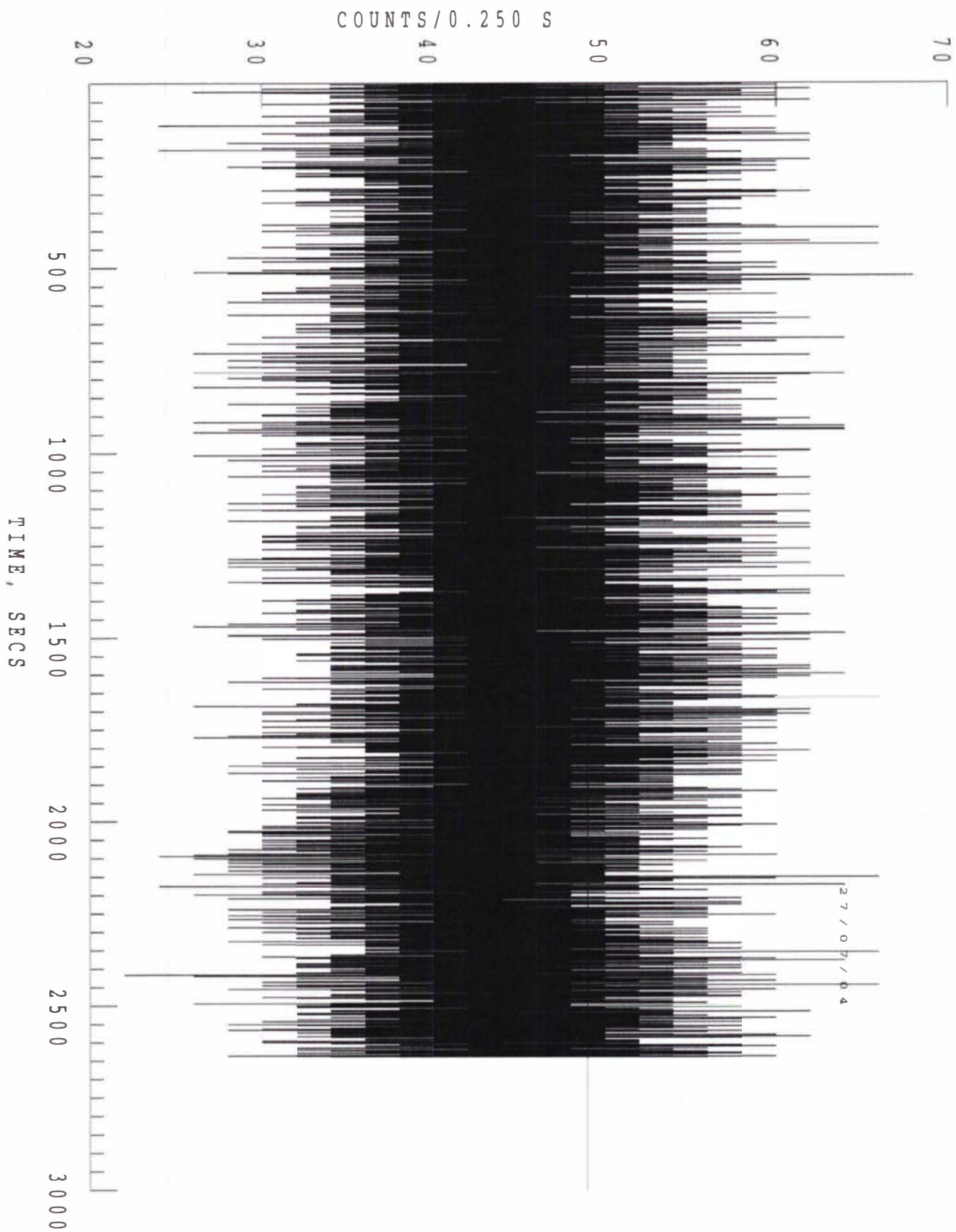
TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Mon Jul 26 08:03:06 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13211 TJD; 207 DOY; 04/07/25
GRB_TIME: 17525.49 SOD {04:52:05.49} UT
TRIGGER_SOURCE: Carlo's trigger robot
GAMMA_RATE: Not computed, sorry
SC_Z_RA: No idea, 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

MS01

25/07/04

16168.129

50 - 3000 keV

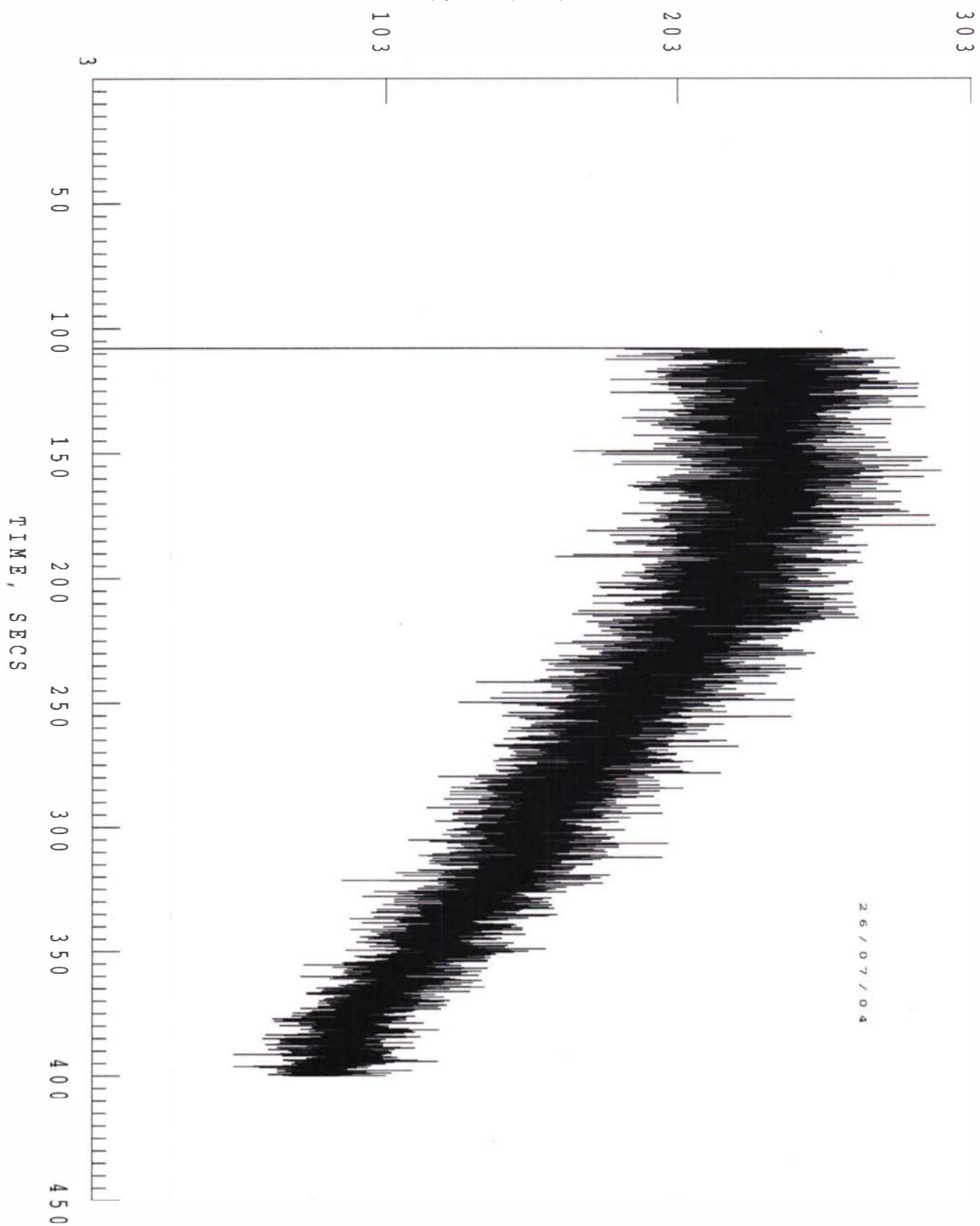


HESSI

25/07/04 17325.000 (GHETE_9999_1_20040725_17525)

25- 150 keV

COUNTS/0.031 S



KONUS2

25/07/04

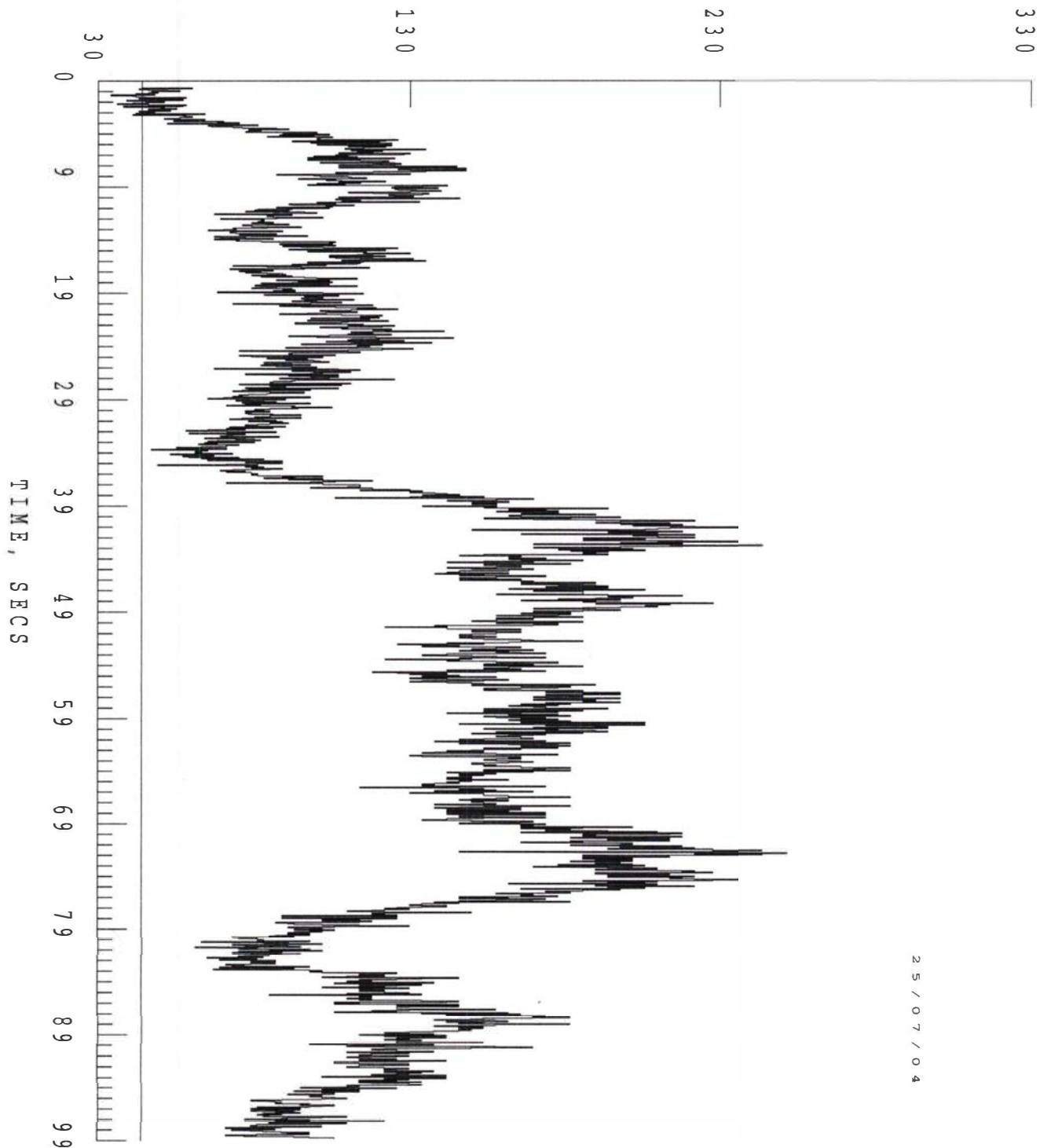
20793.755

50 - 200 keV

05:46:33

Prob. solar
Not in ams
Konus hot

COUNTS/0.064 S



KONUS HRES 20040725 20793

TRIGGER TIME: 25/07/04 DOY 207 Julian 2453212.74066 UT = 05.776 05:46:33 (20793.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

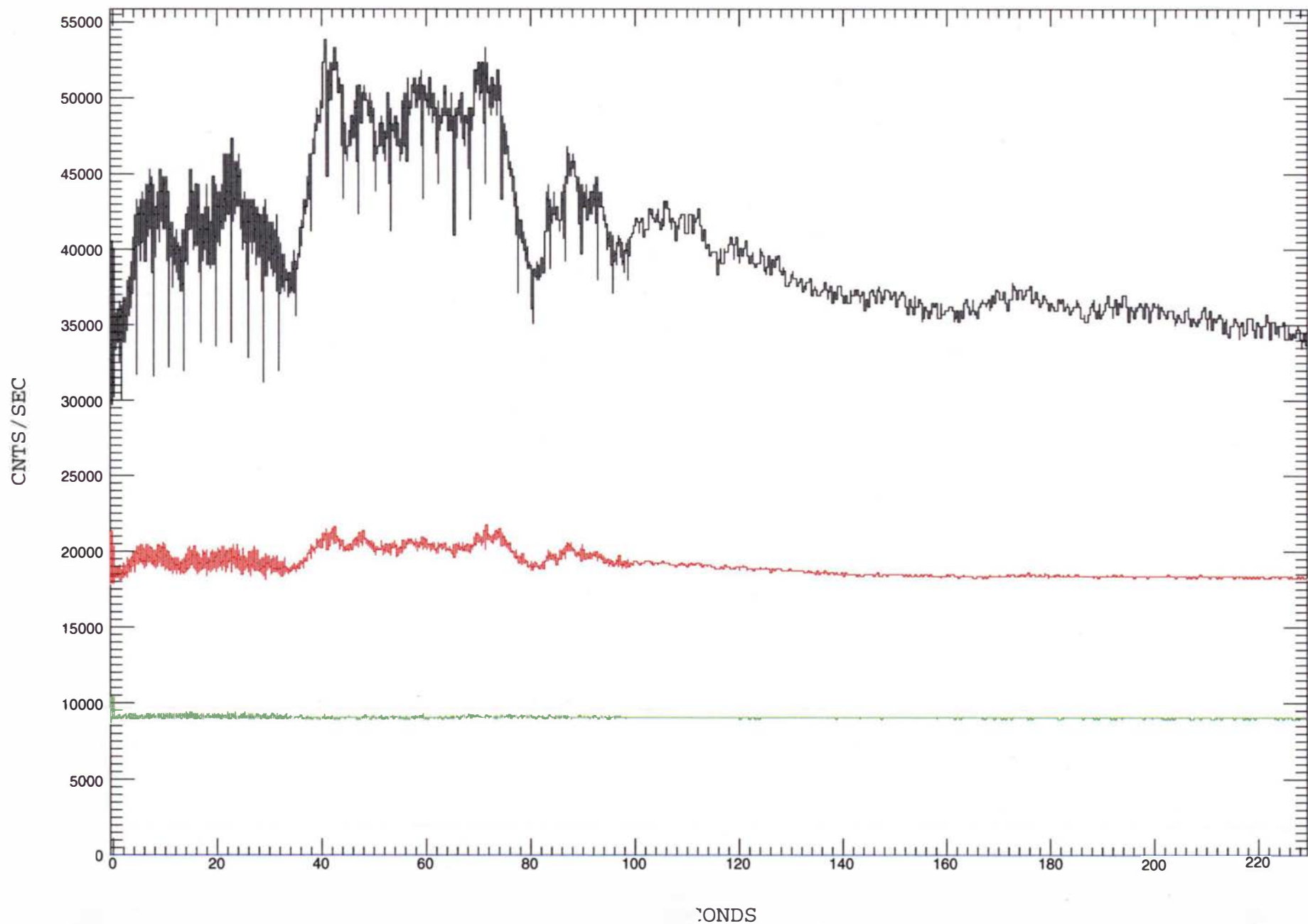
Chan 4 : [> 10 MeV]

Channel 1 + 26700

Channel 2 + 17800

Channel 3 + 8900

Channel 4 + 0



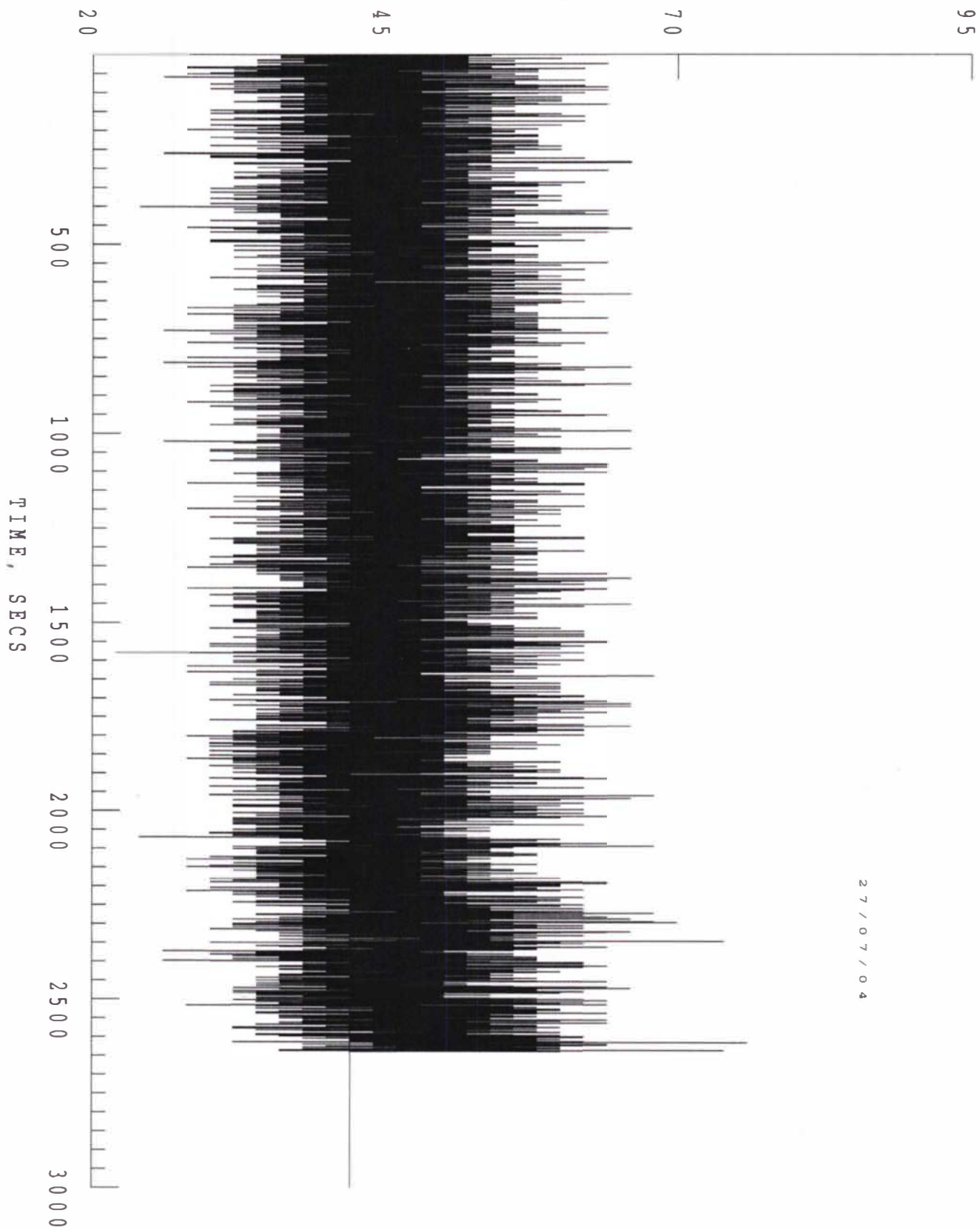
MS01

25/07/04

19468.680

50 - 3000 keV

COUNTS/0.250 S

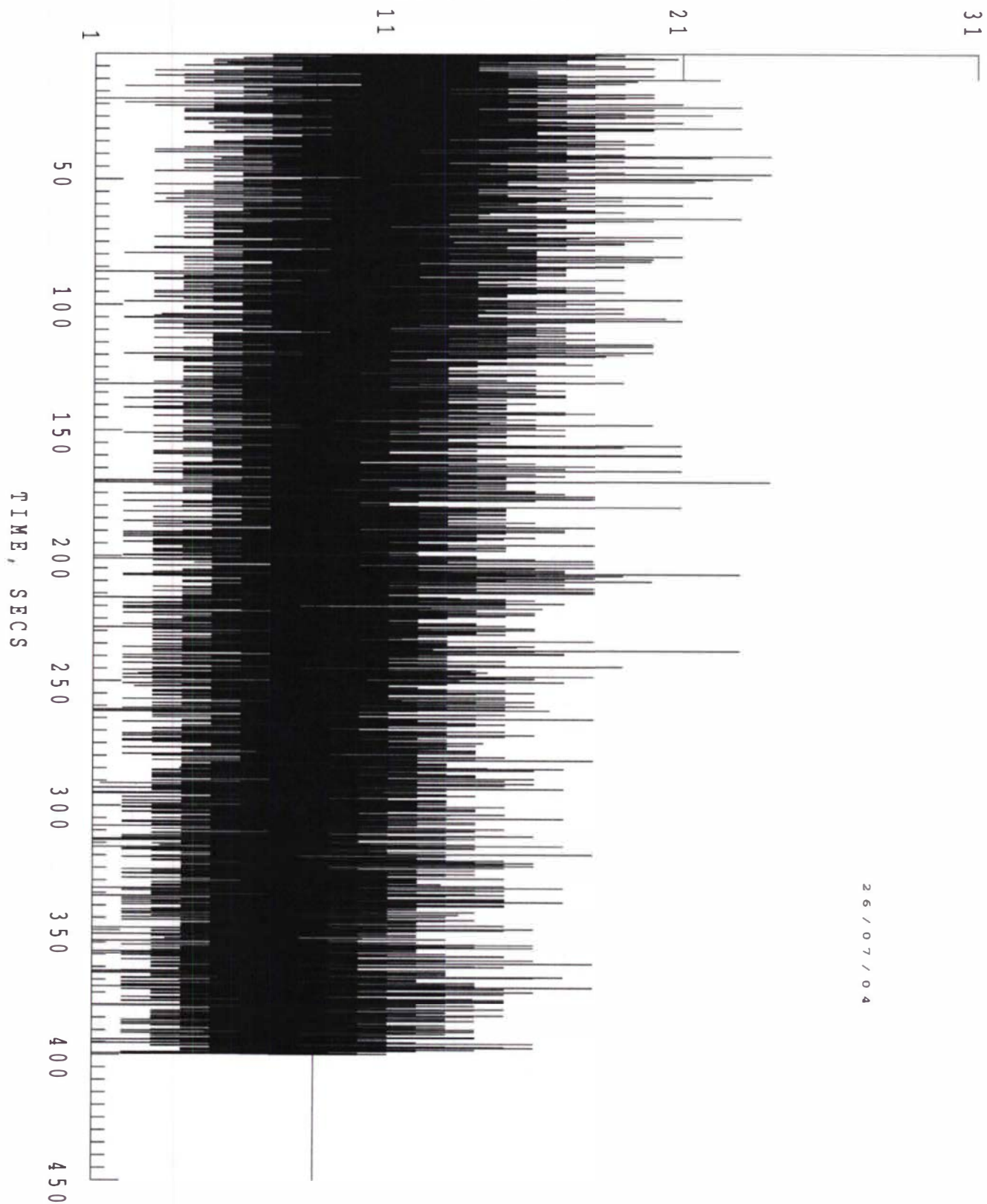


HESSI

25/07/04 20593.000 (KONUS2_20040725_20793)

25- 150 keV

COUNTS/0.031 S



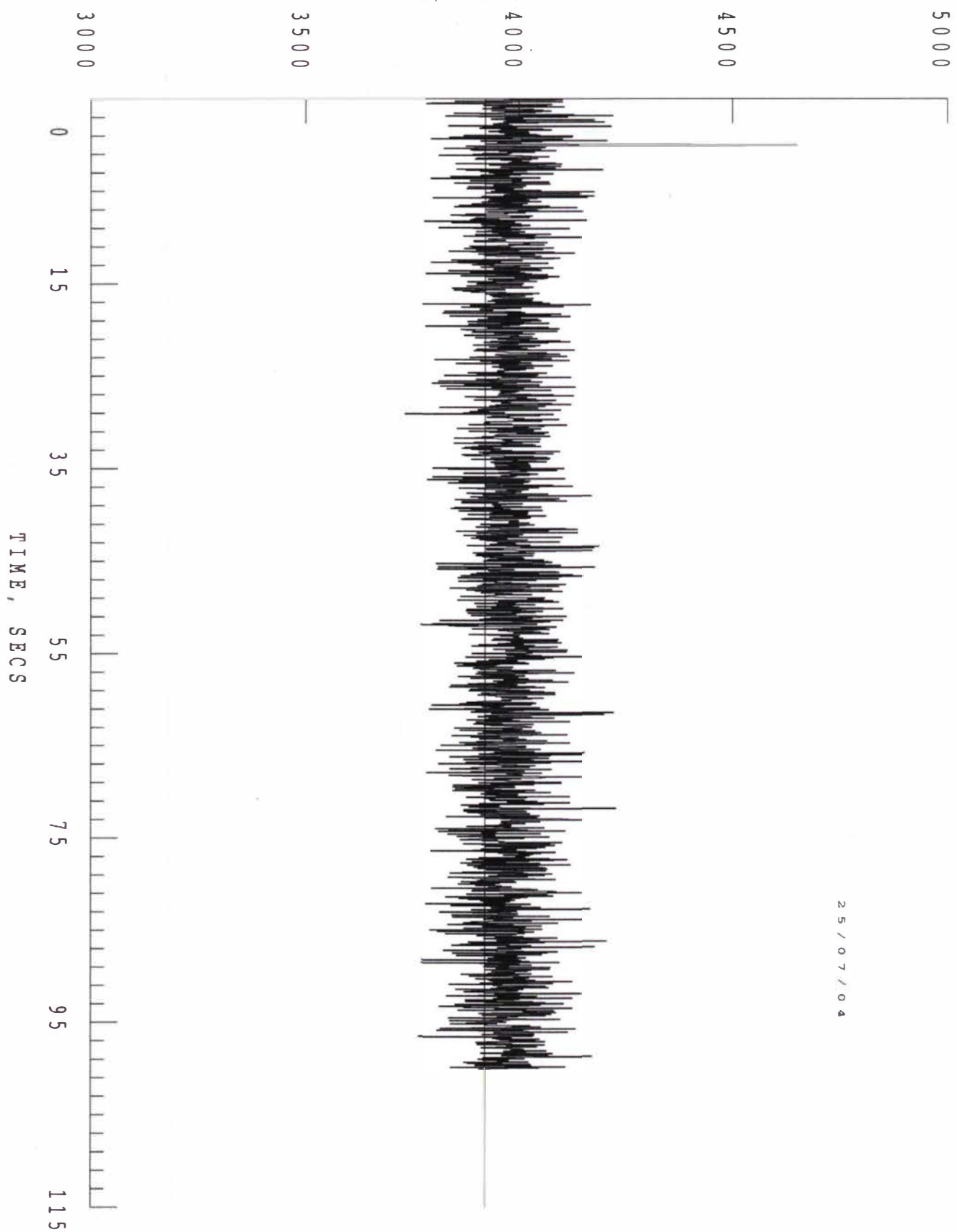
INTEGRAL

25/07/04

27319.620

100-10000 keV

COUNTS/0.050 S



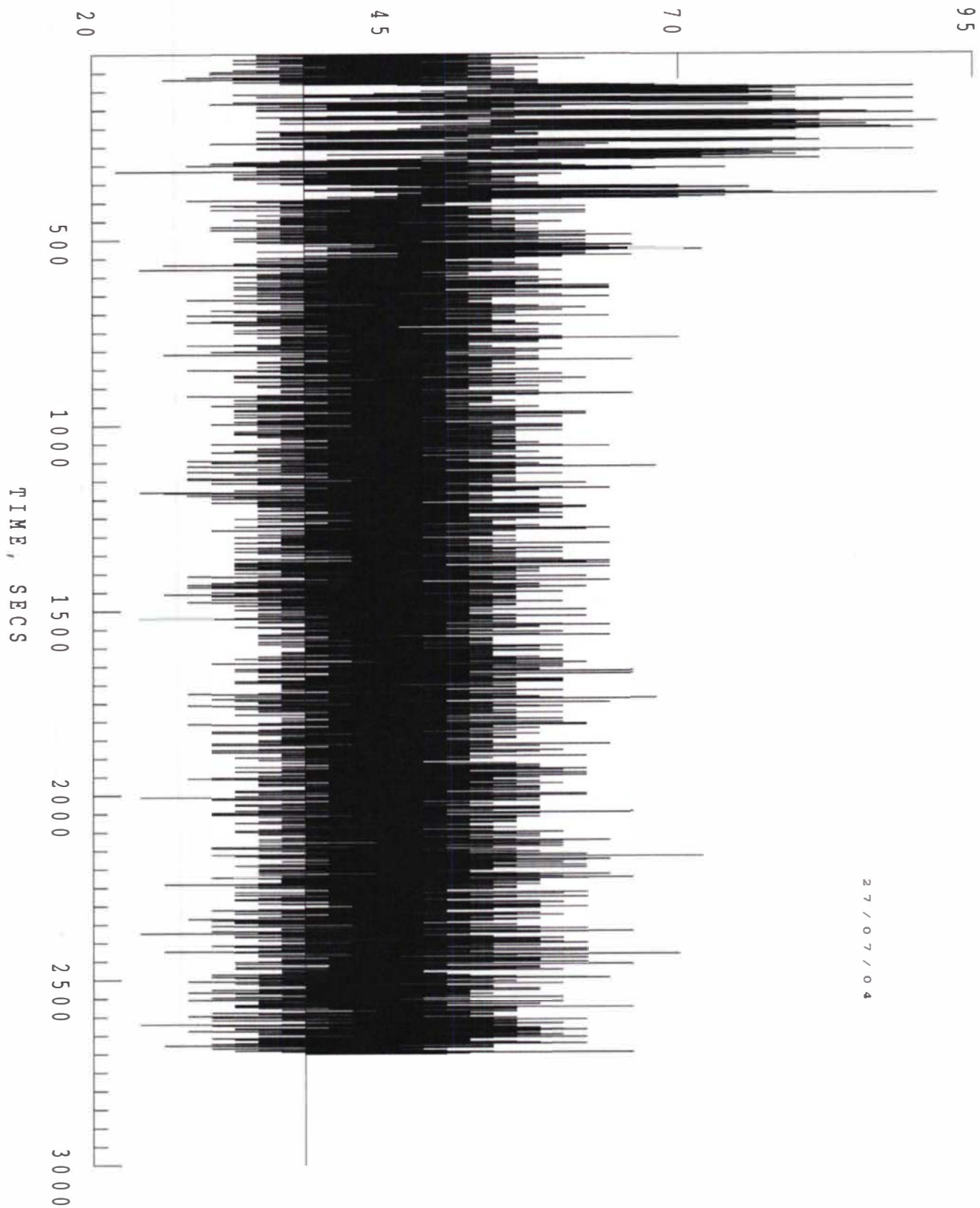
MS01

25/07/04

25947.952

50 - 3000 keV

COUNTS/0.250 S

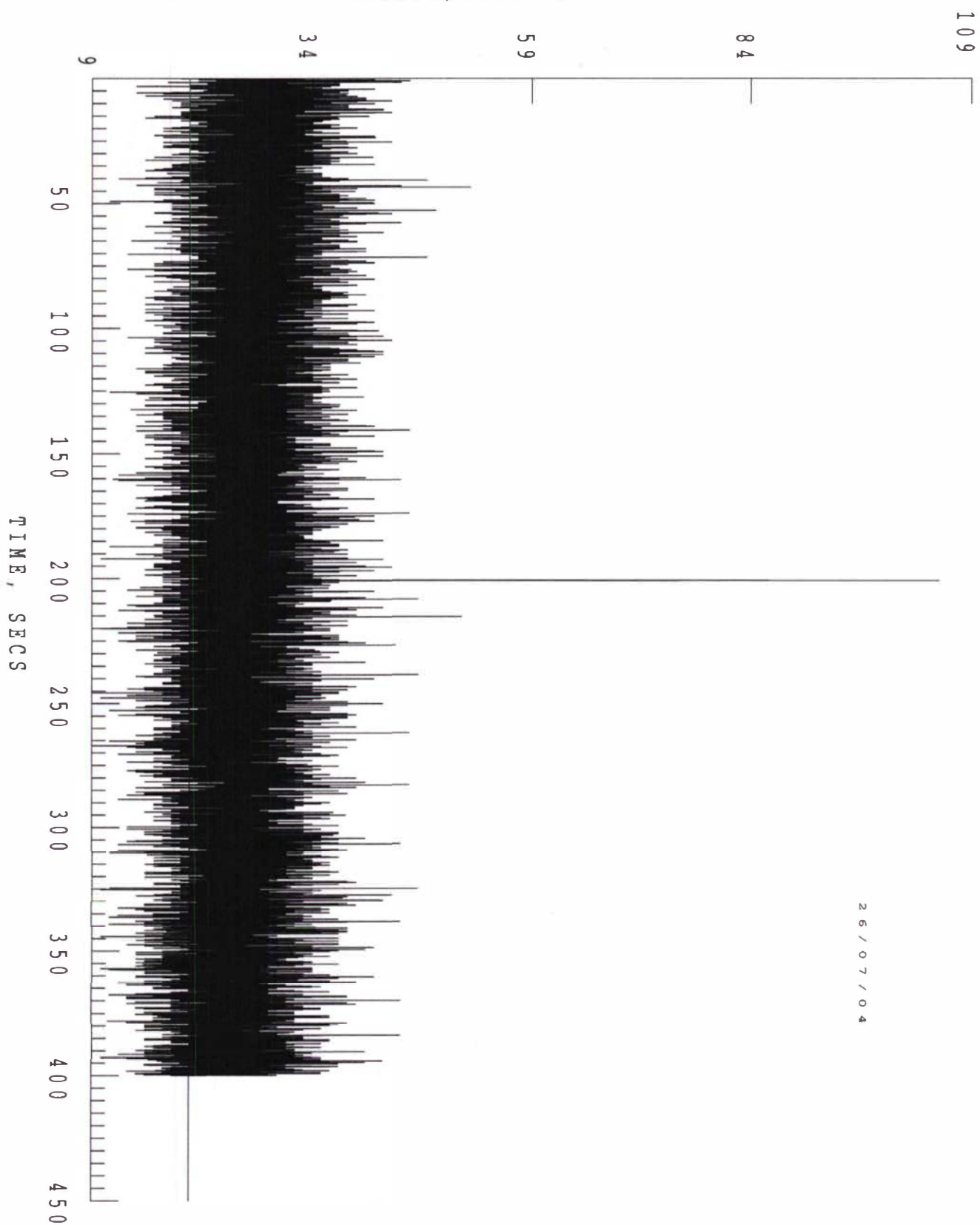


HESSI

25/07/04 27119.000 (INTEGRAL_20040725_27319)

25- 150 keV

COUNTS/0.031 S



KONUS2

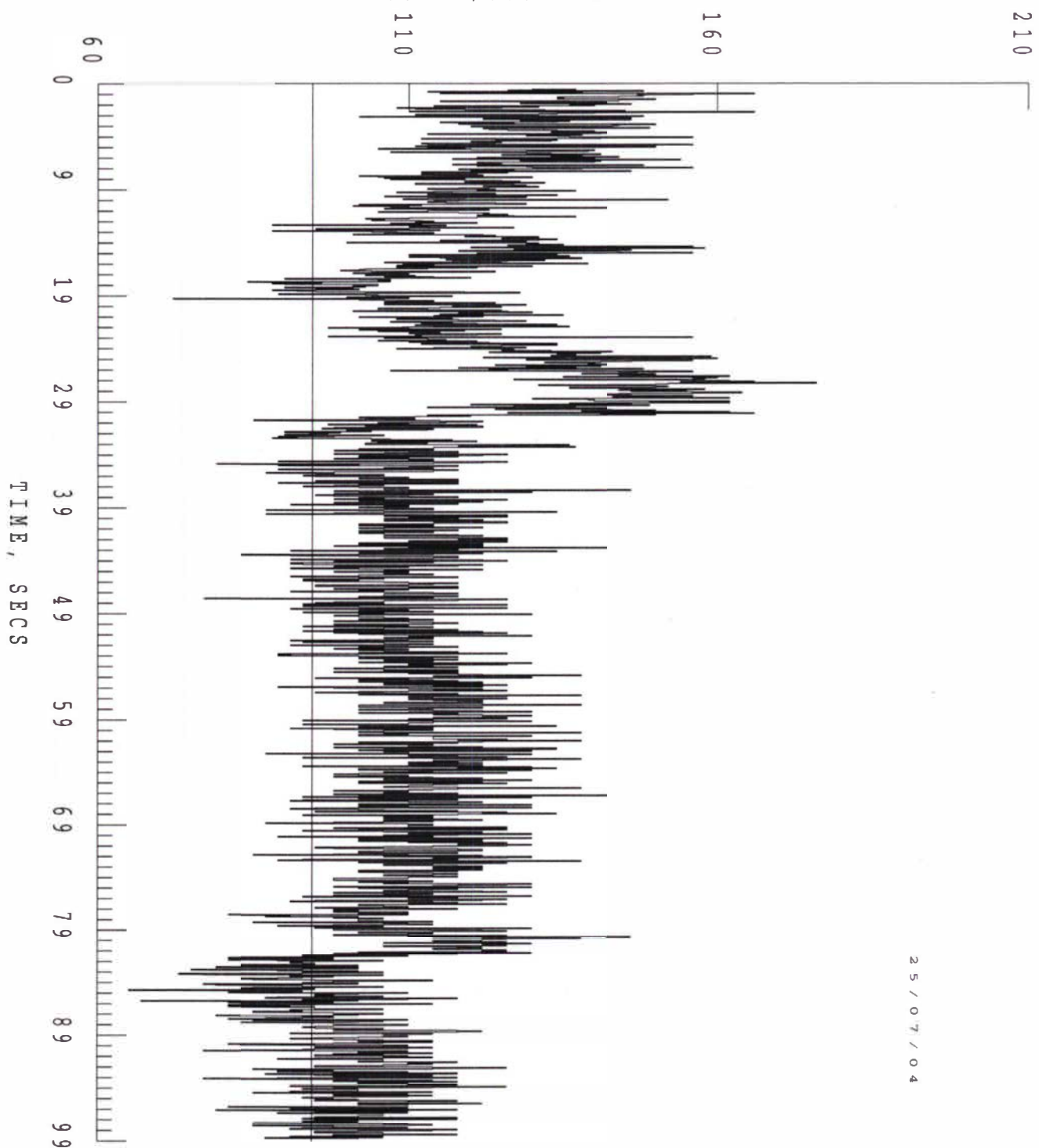
25/07/04

57890.662

50- 200 keV

16:04:50

COUNTS/0.064 S



25/07/04

KONUS HRES 20040725 57890

TRIGGER TIME: 25/07/04 DOY 207 Julian 2453213.17002 UT = 16.081 16:04:50 (57890.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

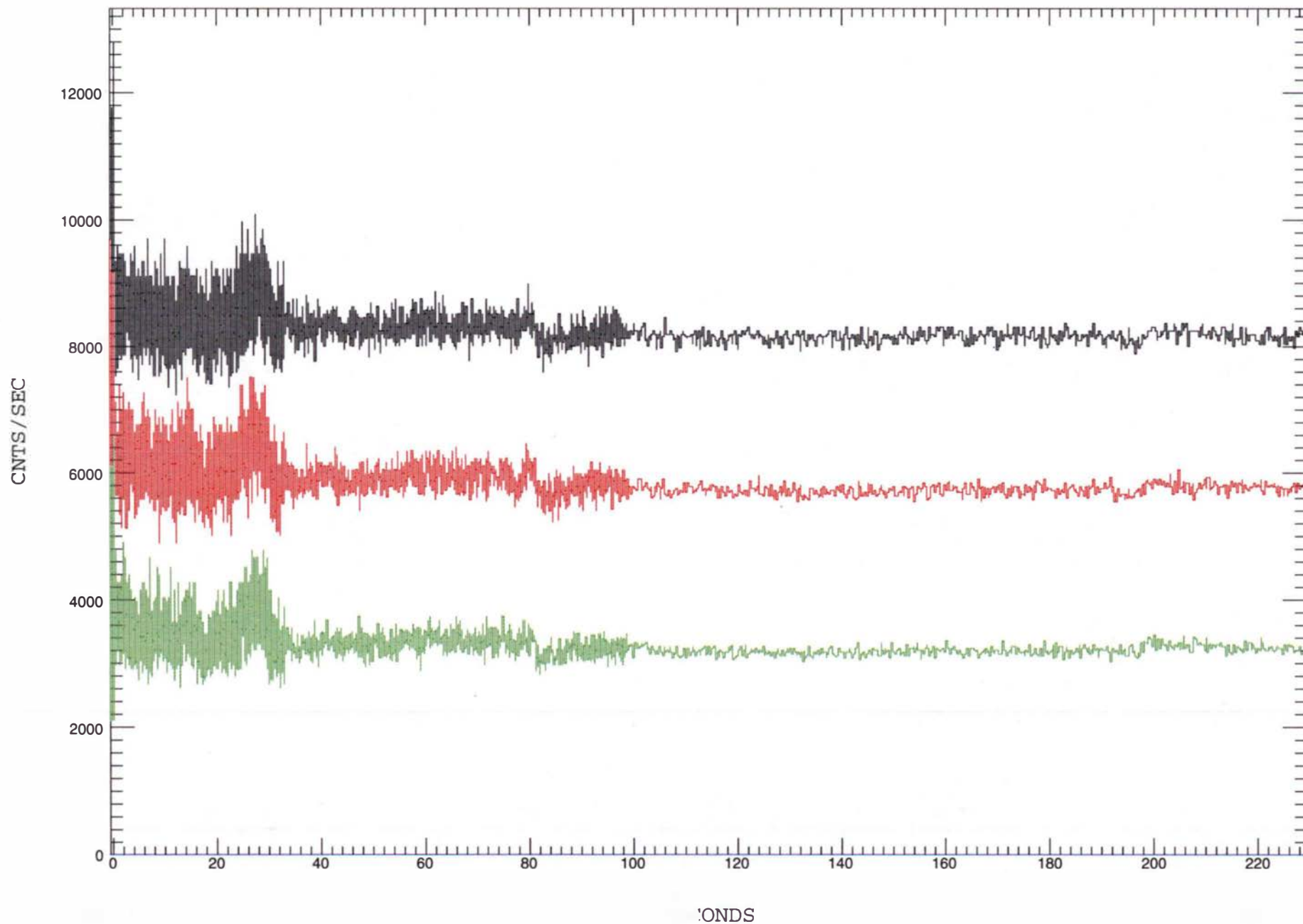
Chan 4 : [> 10 MeV]

Channel 1 + 6300

Channel 2 + 4200

Channel 3 + 2100

Channel 4 + 0



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTOR 1 (KONUS2_20040725_57890)

BEG TIME: 25/07/04 DOY 207 Julian 2453213.16792 UT = 16.030 16:01:48 (57708.000 secs) [sct = 0019 9db3 60f8 7cd3]
 END TIME: 25/07/04 DOY 207 Julian 2453213.17250 UT = 16.140 16:08:24 (58104.000 secs) [sct = 0019 9db3 7892 f928]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

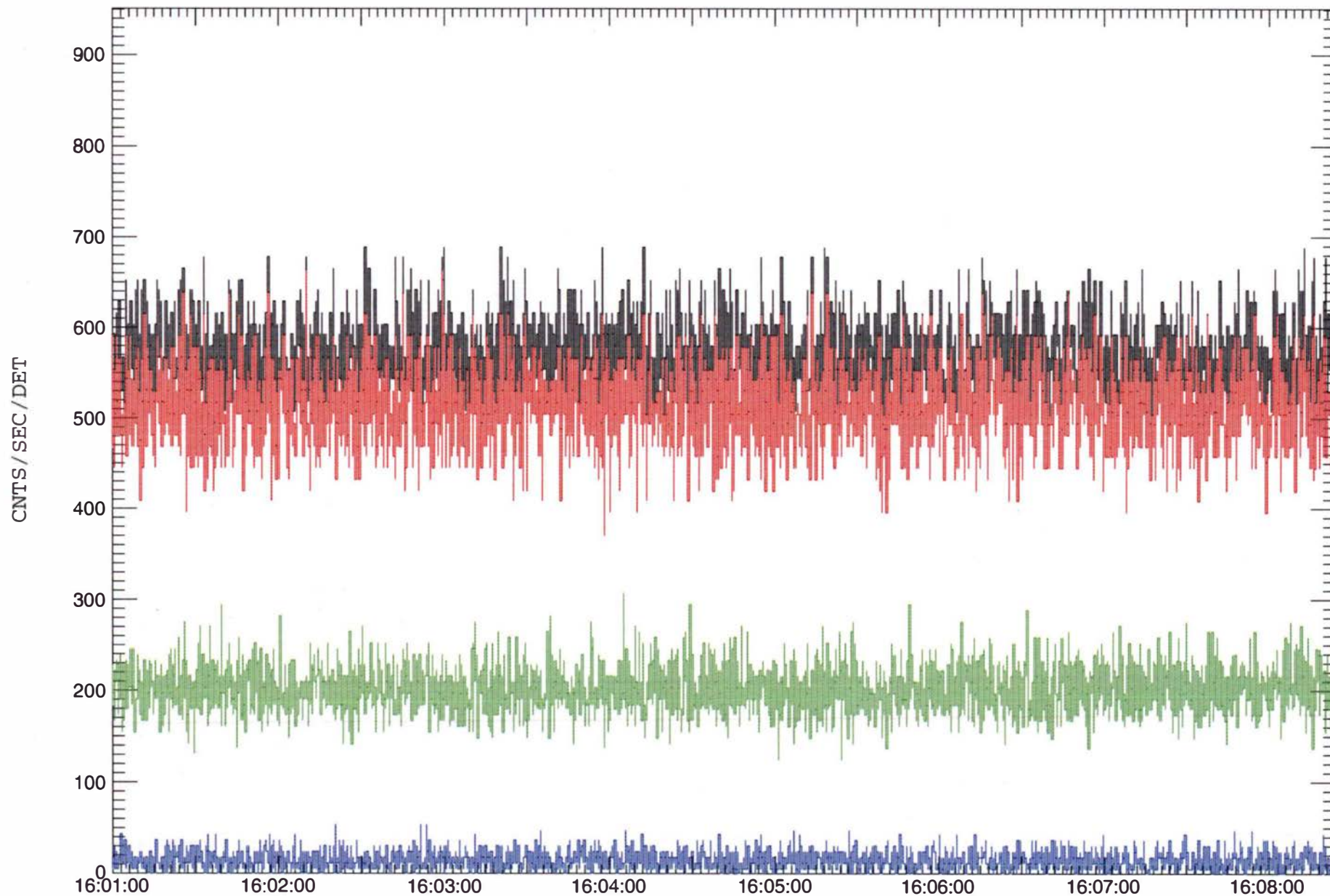
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

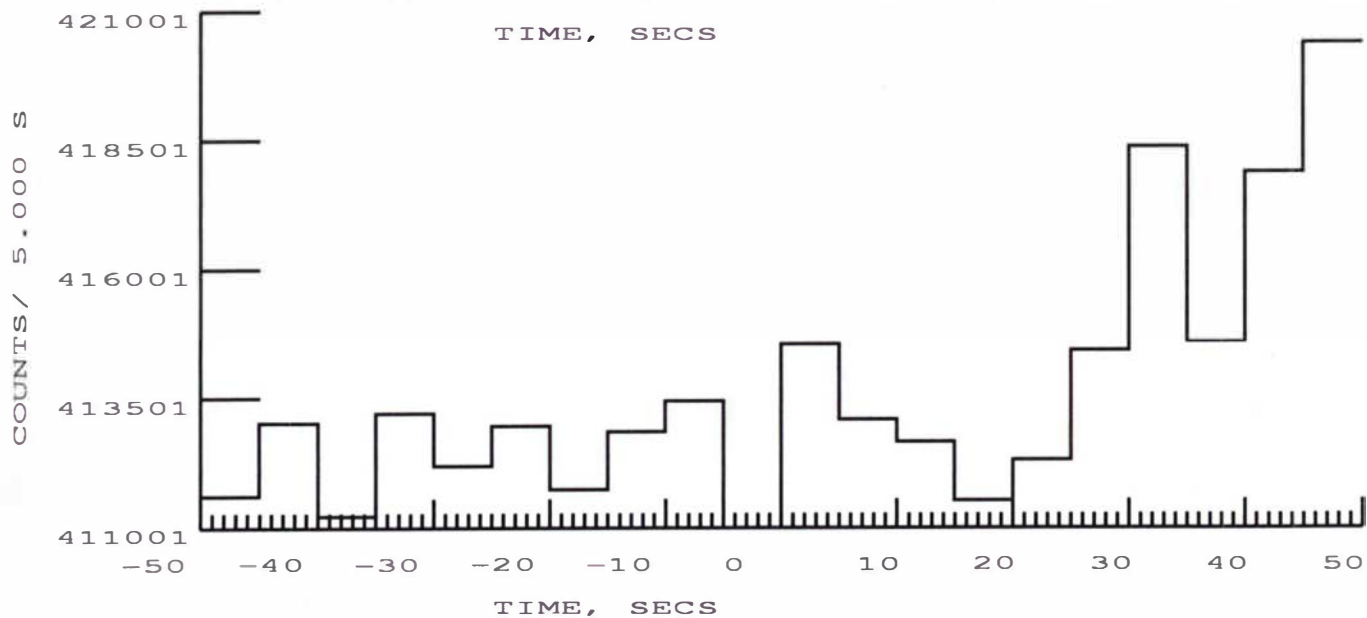
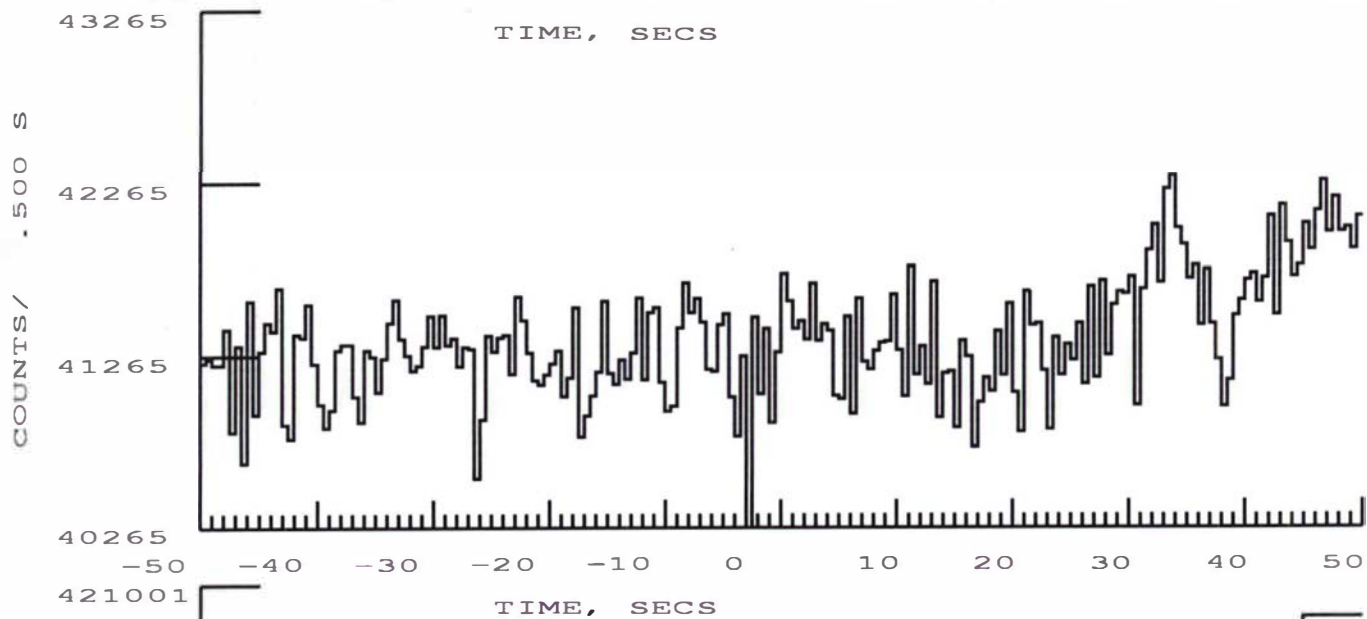
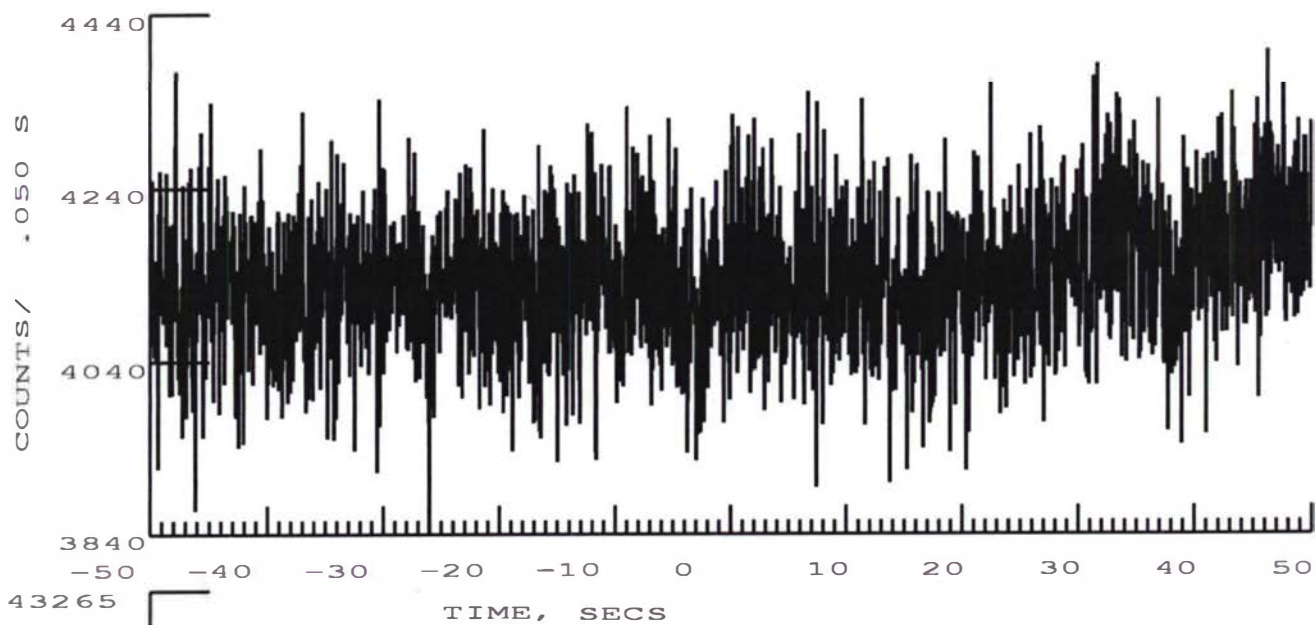
INTEGRAL

25/07/04

57890.000

16:04:50.0

26/09/13

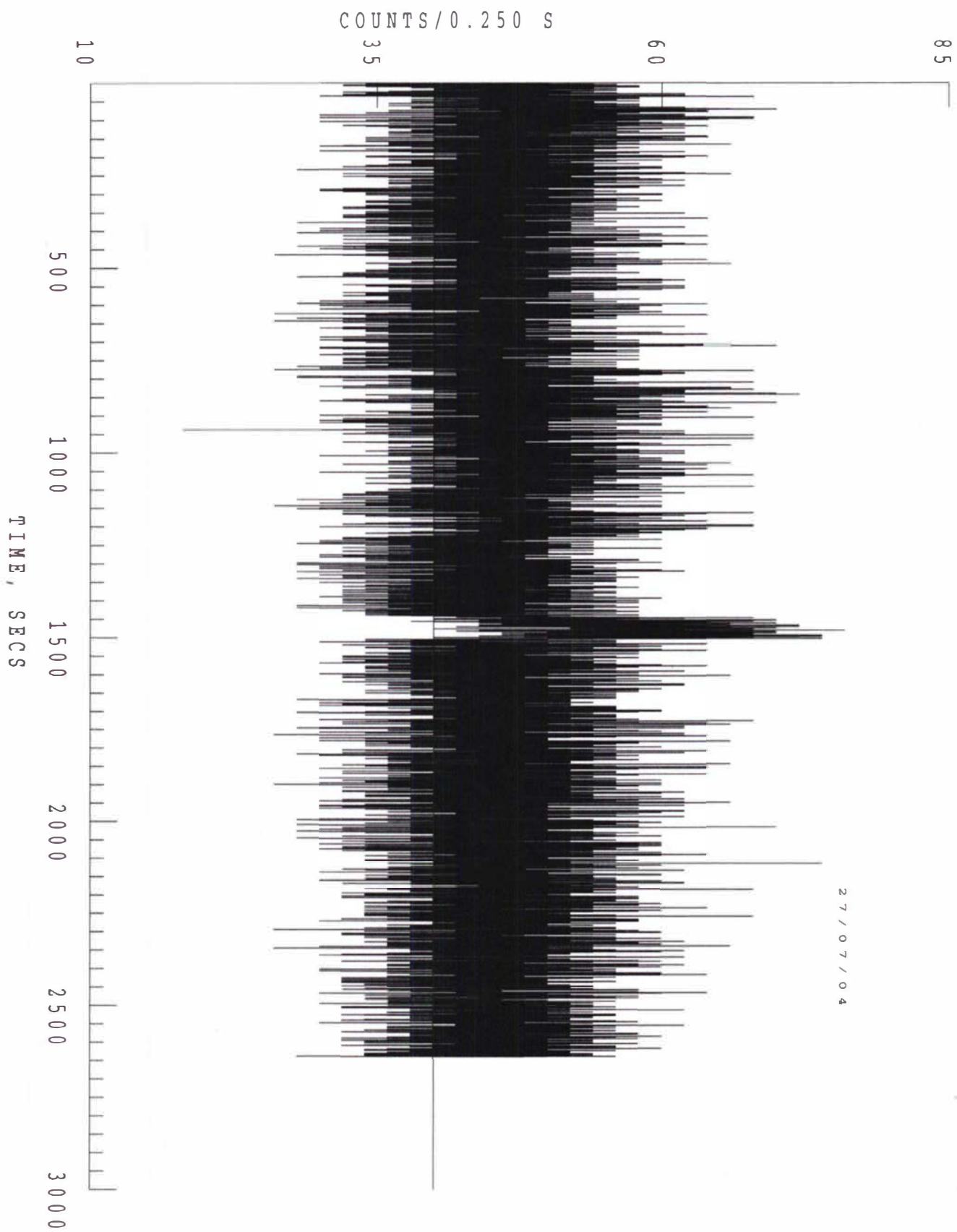


MS01

25/07/04

56547.381

50 - 3000 keV

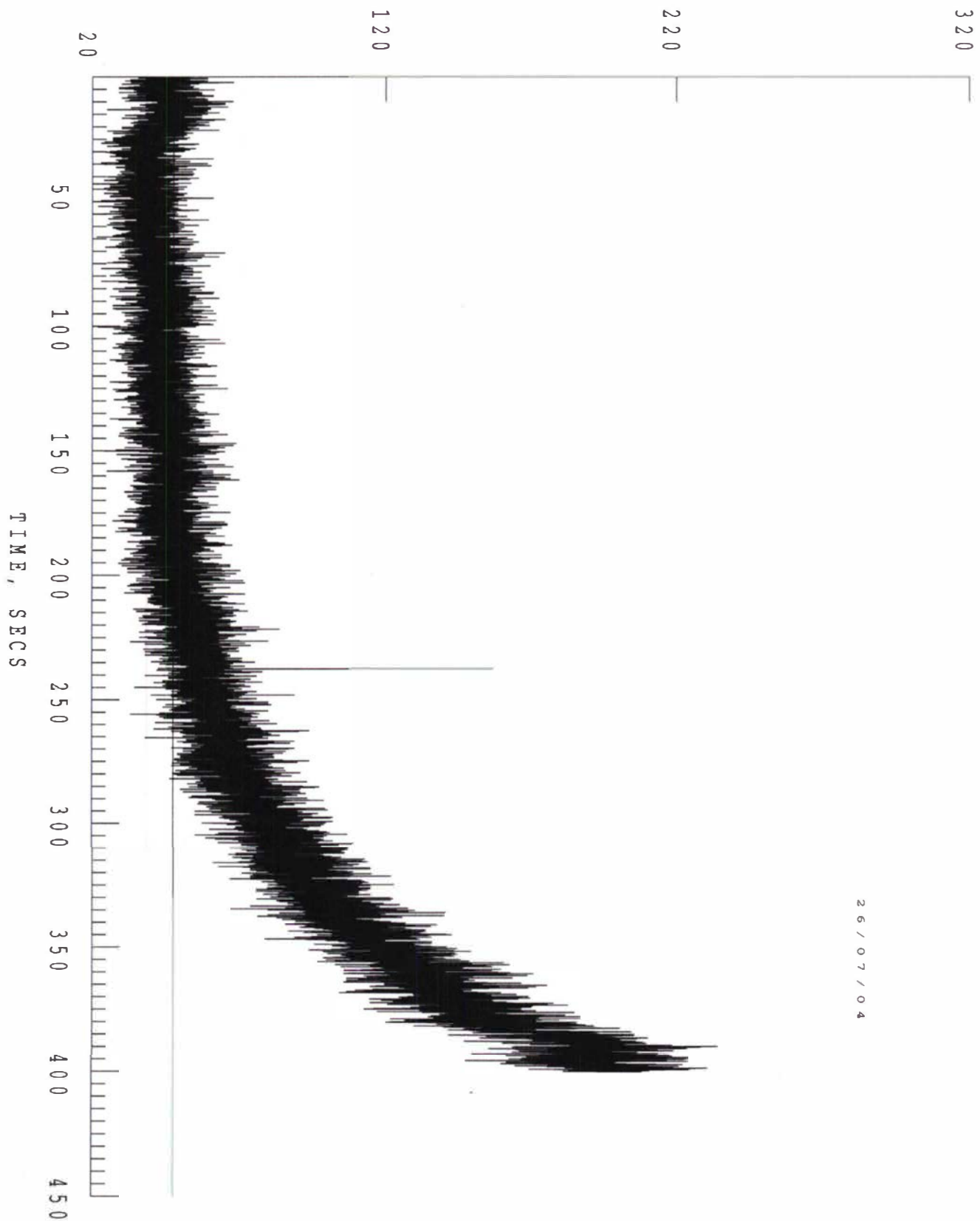


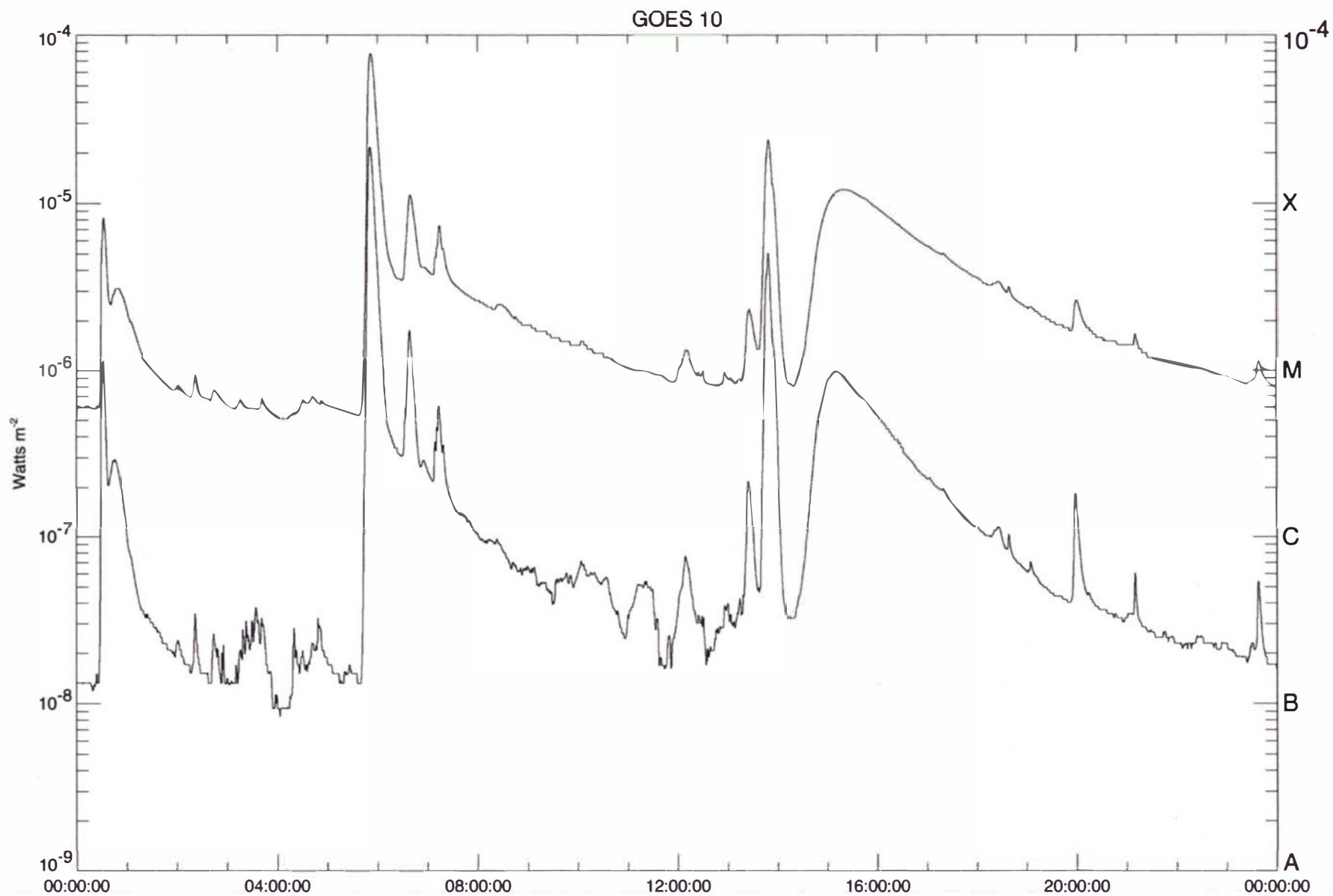
HESSI

25/07/04 57690.000 (KONUS2_20040725_57890)

25- 150 keV

COUNTS/0.031 S





Data Start: 04/07/25, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/26, 0828

Sample average = 10

From hops@space.mit.edu Sun Jul 25 22:17:29 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Mon, 26 Jul 2004 05:18:25 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE DATE: Mon Jul 26 05:18:25 GMT 2004
NOTICE TYPE: HETE S/C Alert
TRIGGER NUM: 9999, Seq_Num: 1
GRB DATE: 13212 TJD; 208 DOY; 04/07/26
GRB TIME: 10921.64 SOD {03:02:01.63} UT
TRIGGER SOURCE: Nat's trigger robot
GAMMA RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC -Z RA: 298 [deg]
SC -Z DEC: -20 [deg]
SC LONG: 342 [deg East]
SUN POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON ILLUM: 35 [%]
COMMENTS: Probable GRB.

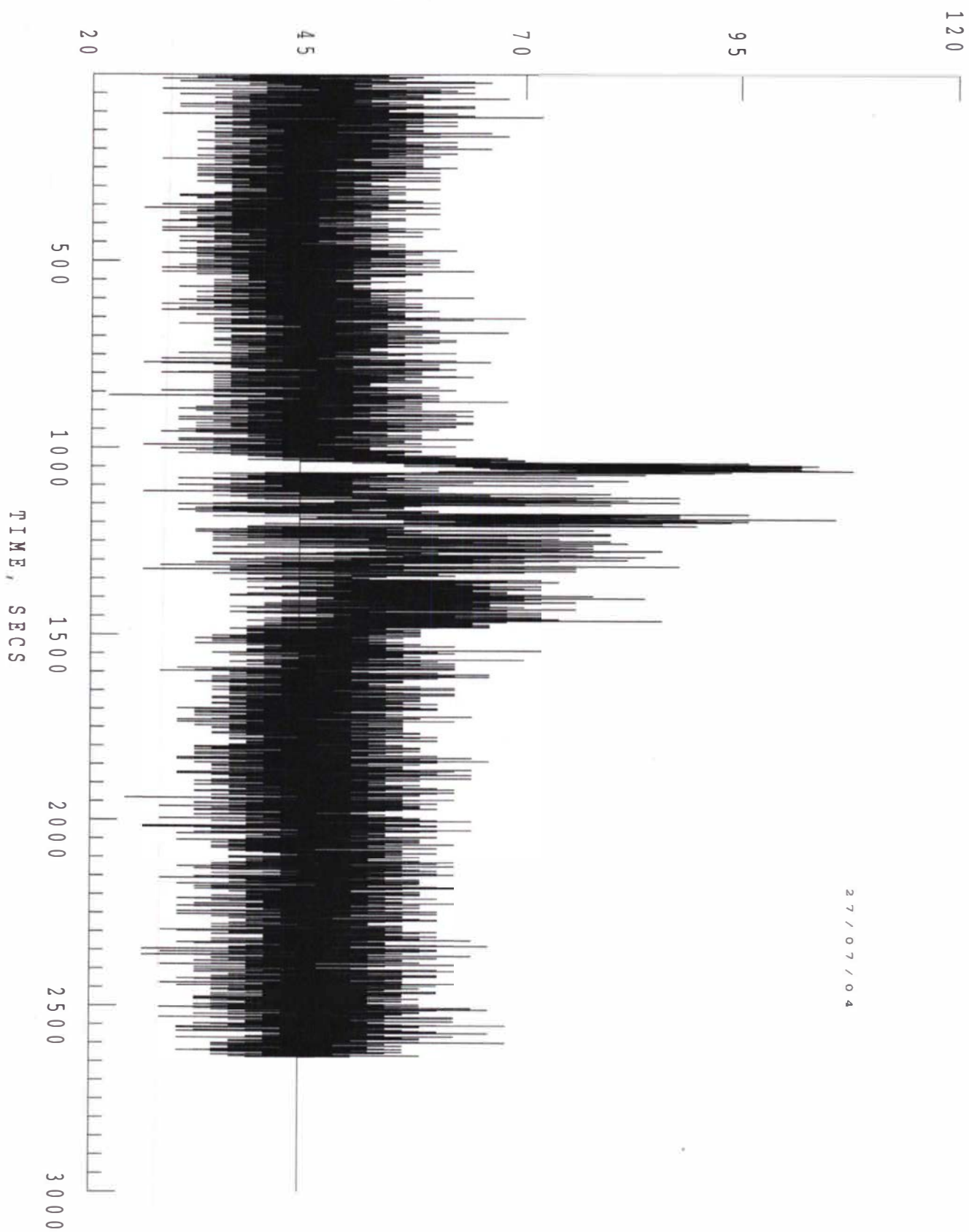
MS01

26/07/04

9686.651

50 - 3000 keV

COUNTS/0.250 S



From williams@sunspot.ssl.berkeley.edu Mon Jul 26 07:03:03 2004
Date: Mon, 26 Jul 2004 07:06:12 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_GHETE_9999_1_20040726_10921

HESSI 25 to 150 keV Counts
Created 26-Jul-2004 07:02:26.00
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

From hops@space.mit.edu Mon Jul 26 06:55:47 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Mon, 26 Jul 2004 13:56:44 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www . canit . ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Mon Jul 26 13:56:44 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13212 TJD; 208 DOY; 04/07/26
GRB_TIME: 47227.46 SOD {13:07:07.46} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20040726_47227)

BEG TIME: 26/07/04 DOY 208 Julian 2453214.04417 UT = 13.060 13:03:36 (47016.000 secs) [sct = 0019 9dc5 0185 e229]
 END TIME: 26/07/04 DOY 208 Julian 2453214.04875 UT = 13.170 13:10:12 (47412.000 secs) [sct = 0019 9dc5 1920 5e7d]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

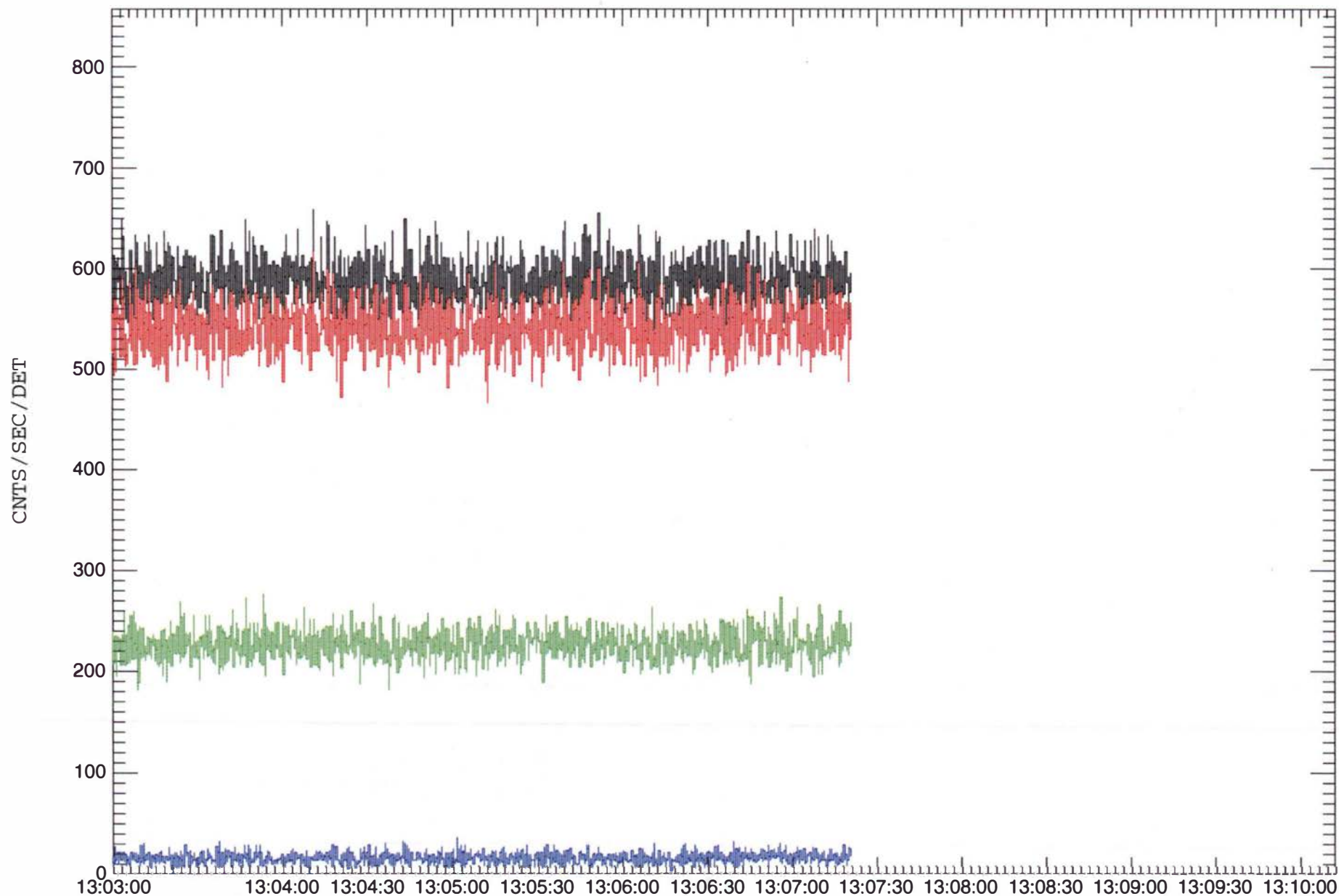
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

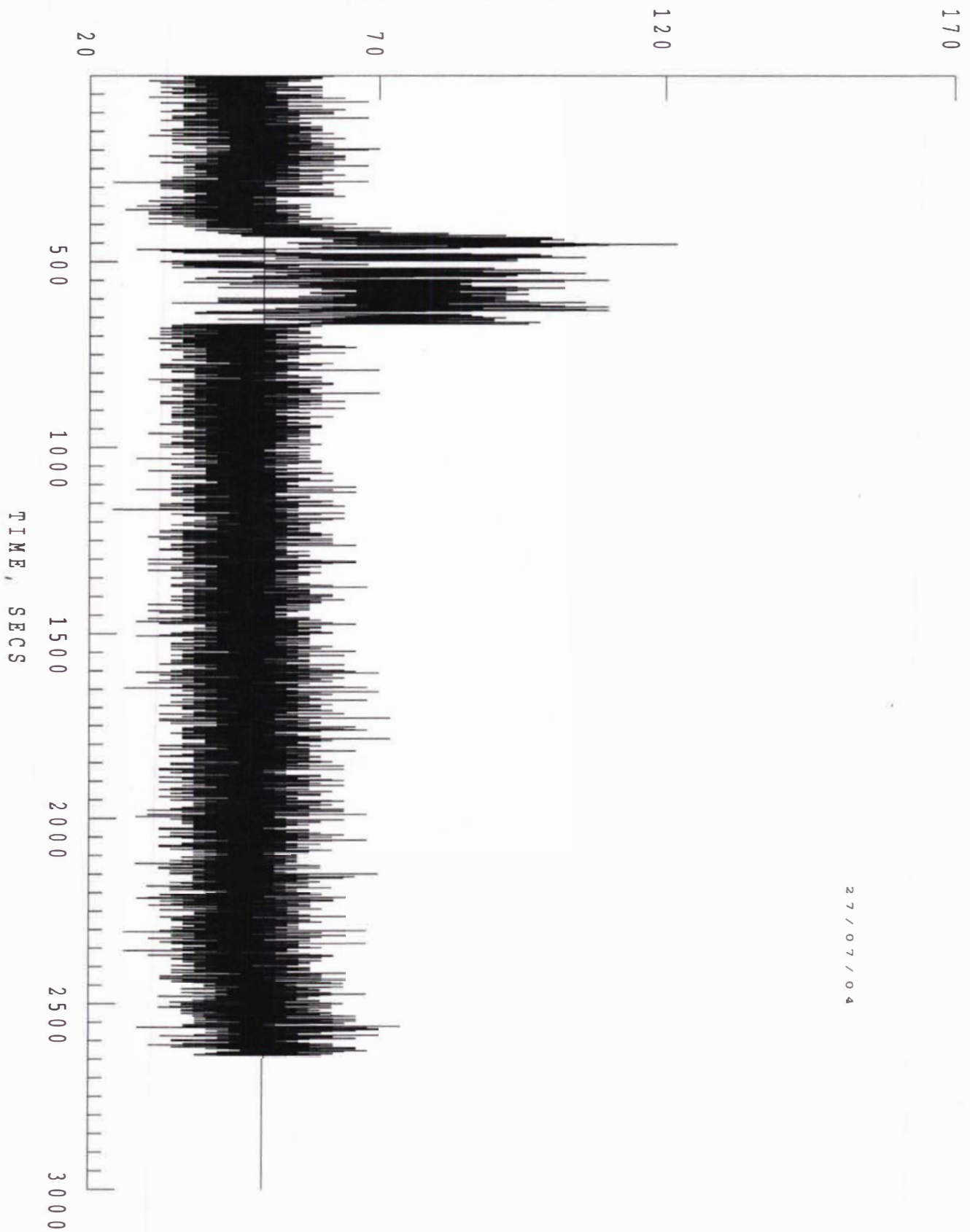
MS01

26/07/04

45865.981

50 - 3000 keV

COUNTS/0.250 S

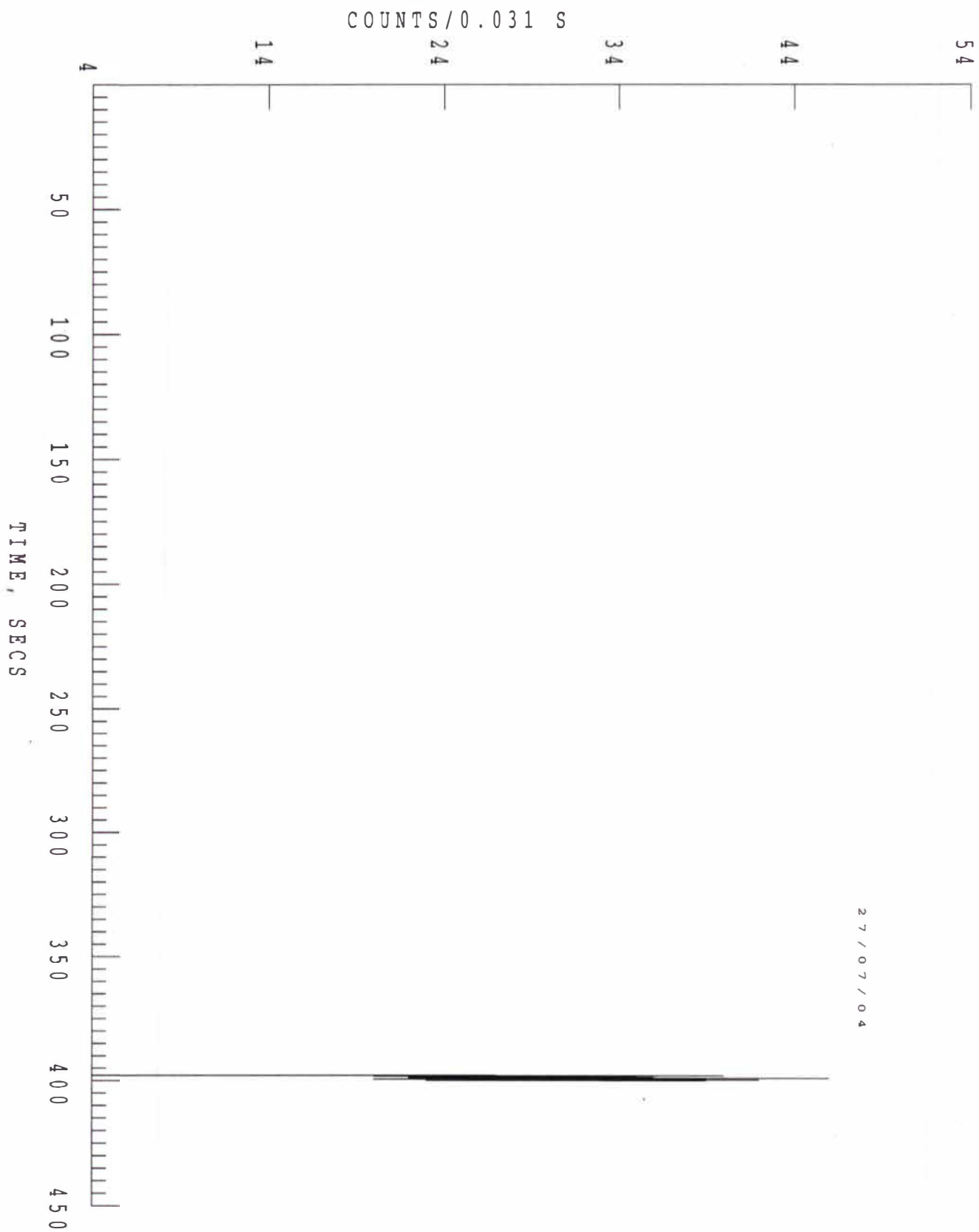


27/07/04

HESSI

26/07/04 47027.000 (GHETE_9999_1_20040726_47227)

25- 150 keV



From vxw@capella.gsfc.nasa.gov Mon Jul 26 14:11:13 2004
Date: Mon, 26 Jul 2004 17:12:16 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@sunspot.ssl.berkeley.edu
Subject: GCN/HETE_POSITION

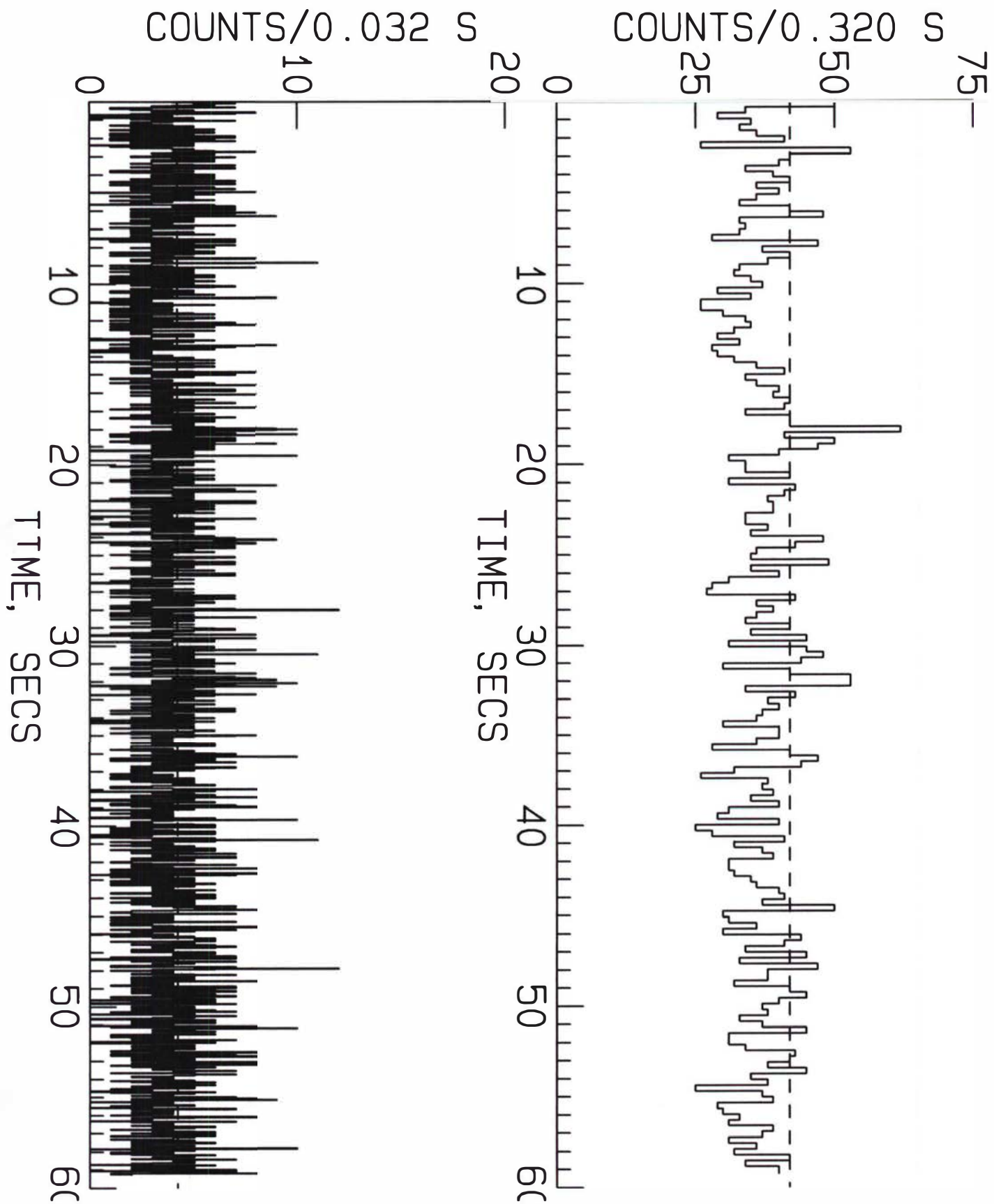
TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Mon 26 Jul 04 21:10:10 UT
NOTICE_TYPE: HETE S/C Alert *Collimator*
TRIGGER_NUM: 3461, Seq_Num: 1
GRB_DATE: 13212 TJD; 208 DOY; 04/07/26
GRB_TIME: 76195.68 SOD {21:09:55.68} UT
TRIGGER_SOURCE: Trigger on the 25-400 keV band.
WXM_SIG/NOISE: 0.1 sig/noise on a 1.760 [sec] timescale
SC_LONG: 104 [deg East]
SUN_POSTN: 126.52d {+08h 26m 06s} +19.21d {+19d 12' 28"}
MOON_POSTN: 233.93d {+15h 35m 43s} -21.21d {-21d 12' 34"}
MOON_ILLUM: 69 [%]
COMMENTS: No s/c ACS pointing info available yet.
COMMENTS: Probable GRB.

MO GE

26/07/04 75719.323

116- 337 keV

23 / 7 / 8



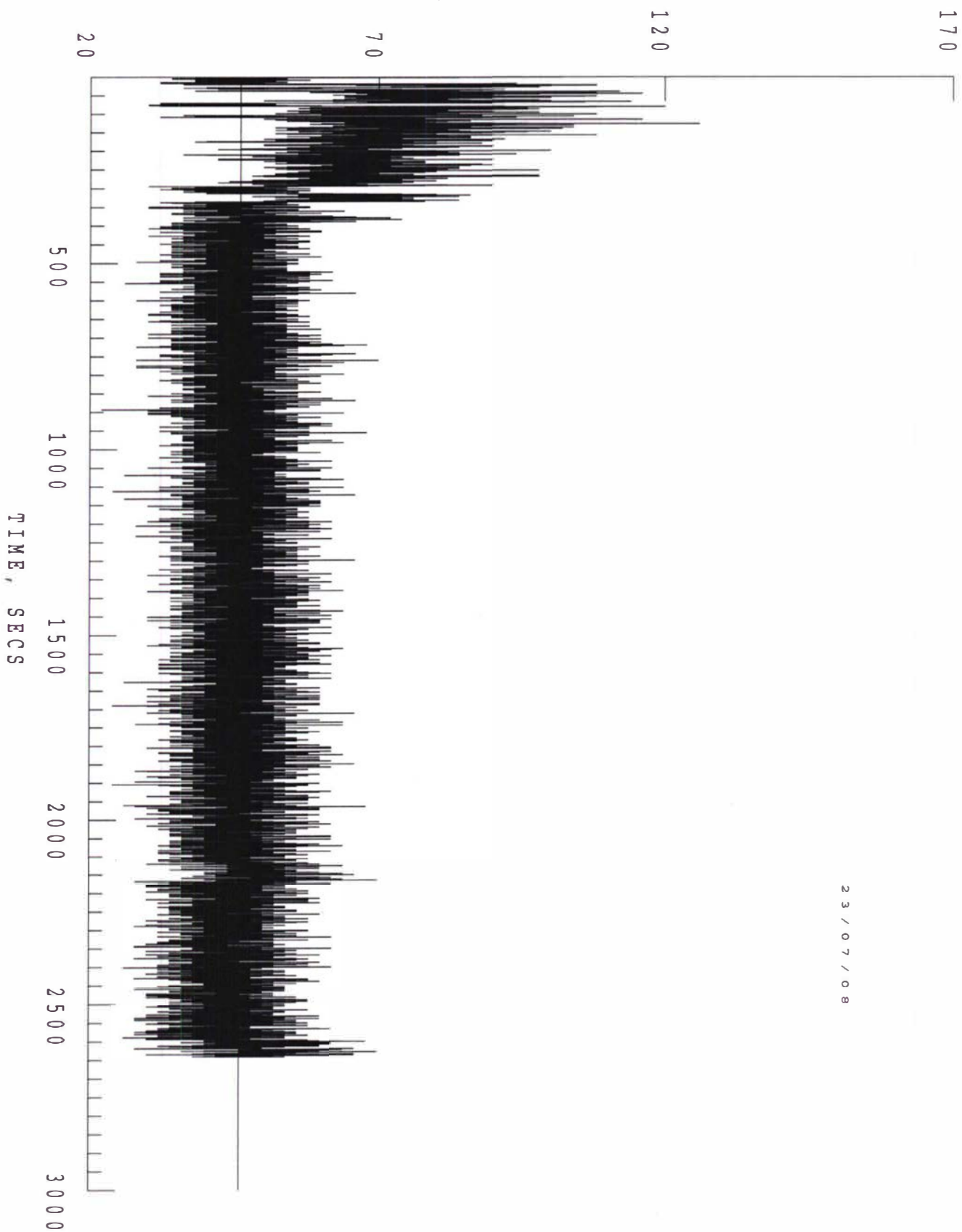
MS01

26/07/04

74845.447

50 - 3000 keV

COUNTS/0.250 S

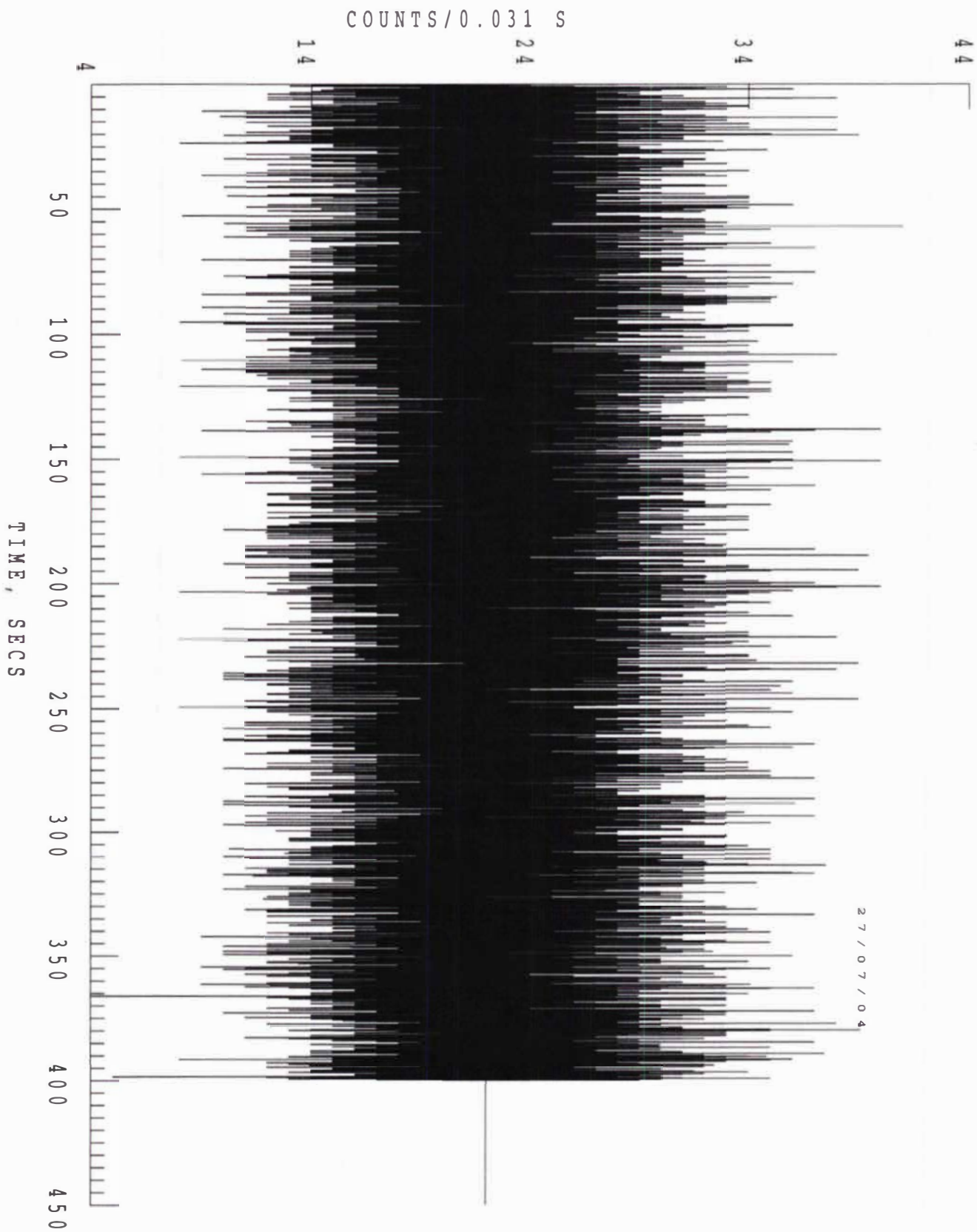


23/07/08

HESSI

26/07/04 75995.000 (GHETE_3461_1_20040726_76195)

25- 150 keV



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_3461_1_20040726_76195)

BEG TIME: 26/07/04 DOY 208 Julian 2453214.37958 UT = 21.110 21:06:36 (75996.000 secs) [sct = 0019 9dcb c0dd f883]
 END TIME: 26/07/04 DOY 208 Julian 2453214.38417 UT = 21.220 21:13:12 (76392.000 secs) [sct = 0019 9dcb d878 74d8]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

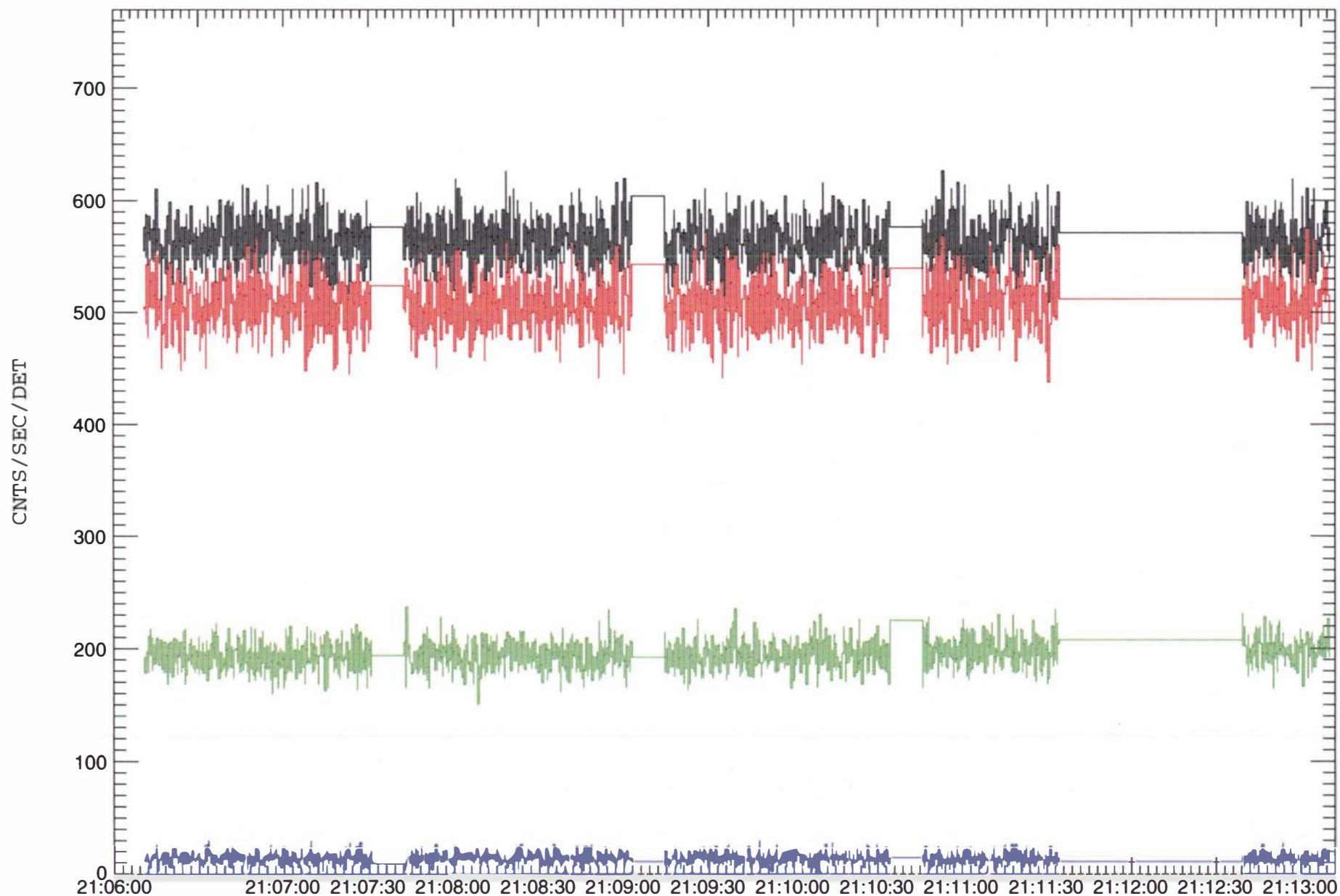
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



From hops@space.mit.edu Mon Jul 26 18:13:37 2004
Date: Mon, 26 Jul 2004 21:14:44 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: khurley@sunspot.ssl.berkeley.edu
Subject: Trigger Notice to IPN

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE DATE: Tue Jul 27 01:13:07 GMT 2004
NOTICE TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB DATE: 13212 TJD; 208 DOY; 04/07/26
GRB TIME: 85832.77 SOD {23:50:32.77} 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 SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20040726_85832)

BEG TIME: 26/07/04 DOY 208 Julian 2453214.49125 UT = 23.790 23:47:24 (85644.000 secs) [sct = 0019 9dcd ffee e4ec]
 END TIME: 26/07/04 DOY 208 Julian 2453214.49583 UT = 23.900 23:54:00 (86040.000 secs) [sct = 0019 9dce 1789 6141]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

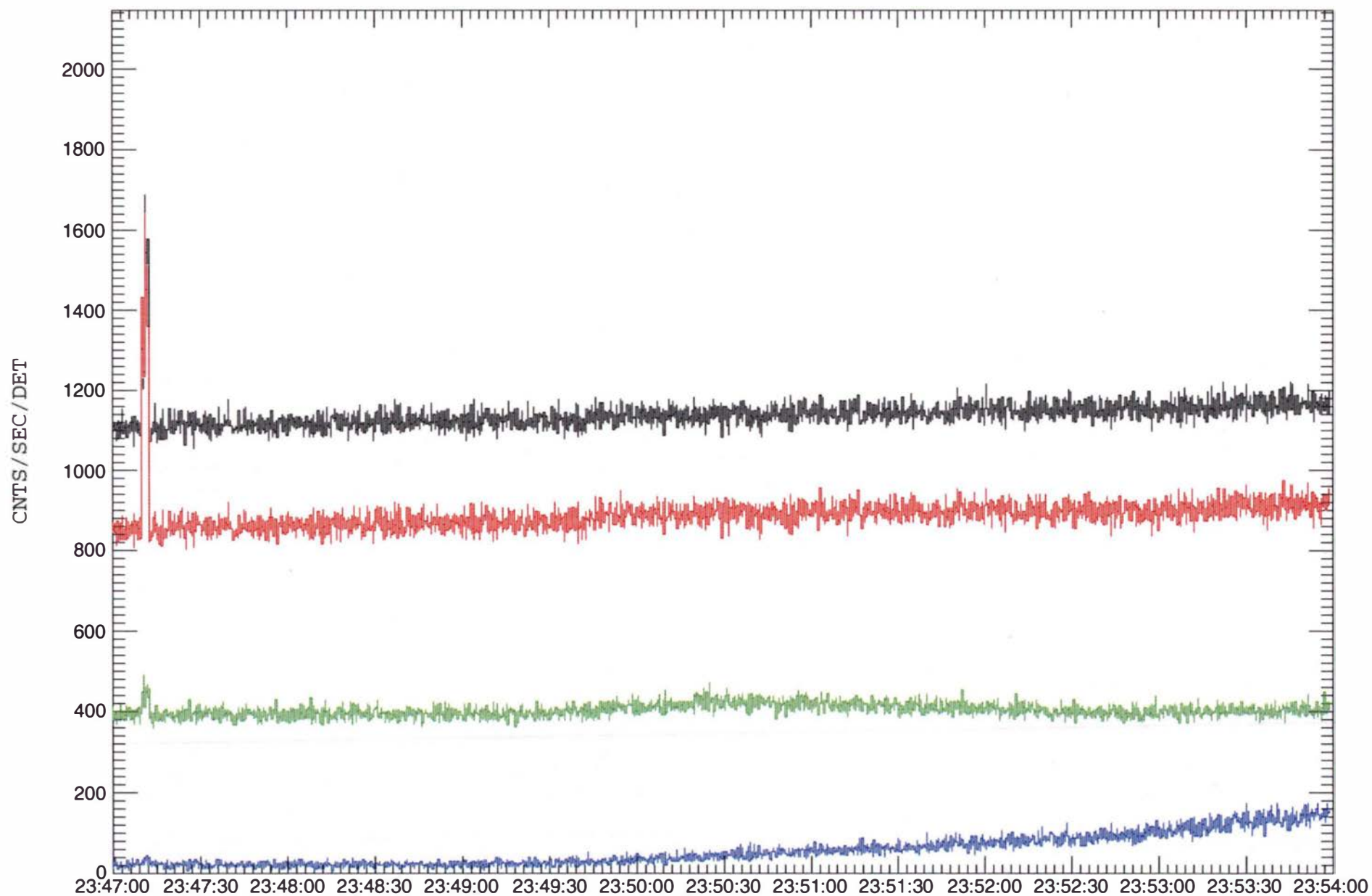
Chan 4:[E6=510 ->]

Channel 1 + 900

Channel 2 + 600

Channel 3 + 300

Channel 4 + 0



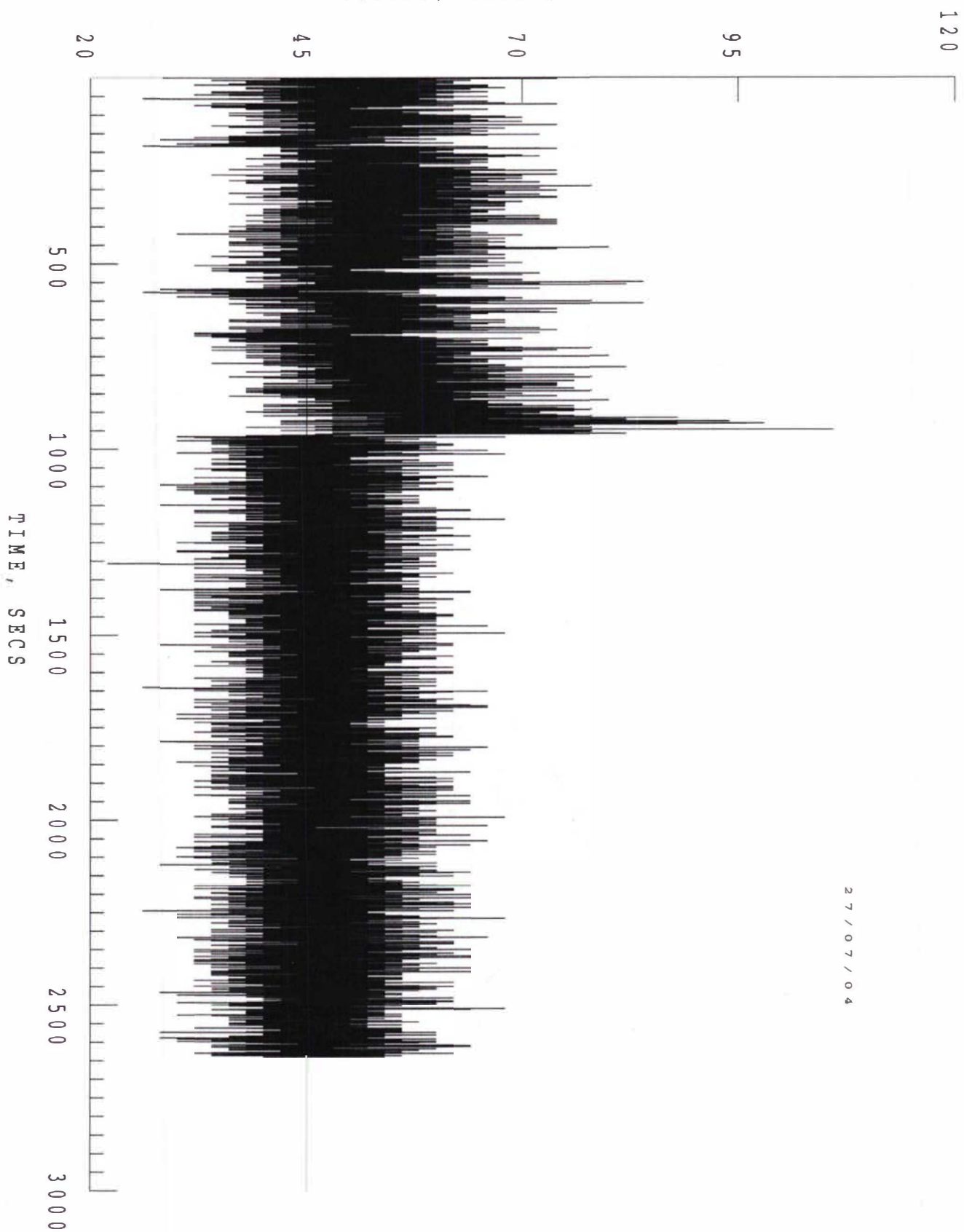
MS01

26/07/04

84505.269

50 - 3000 keV

COUNTS/0.250 S

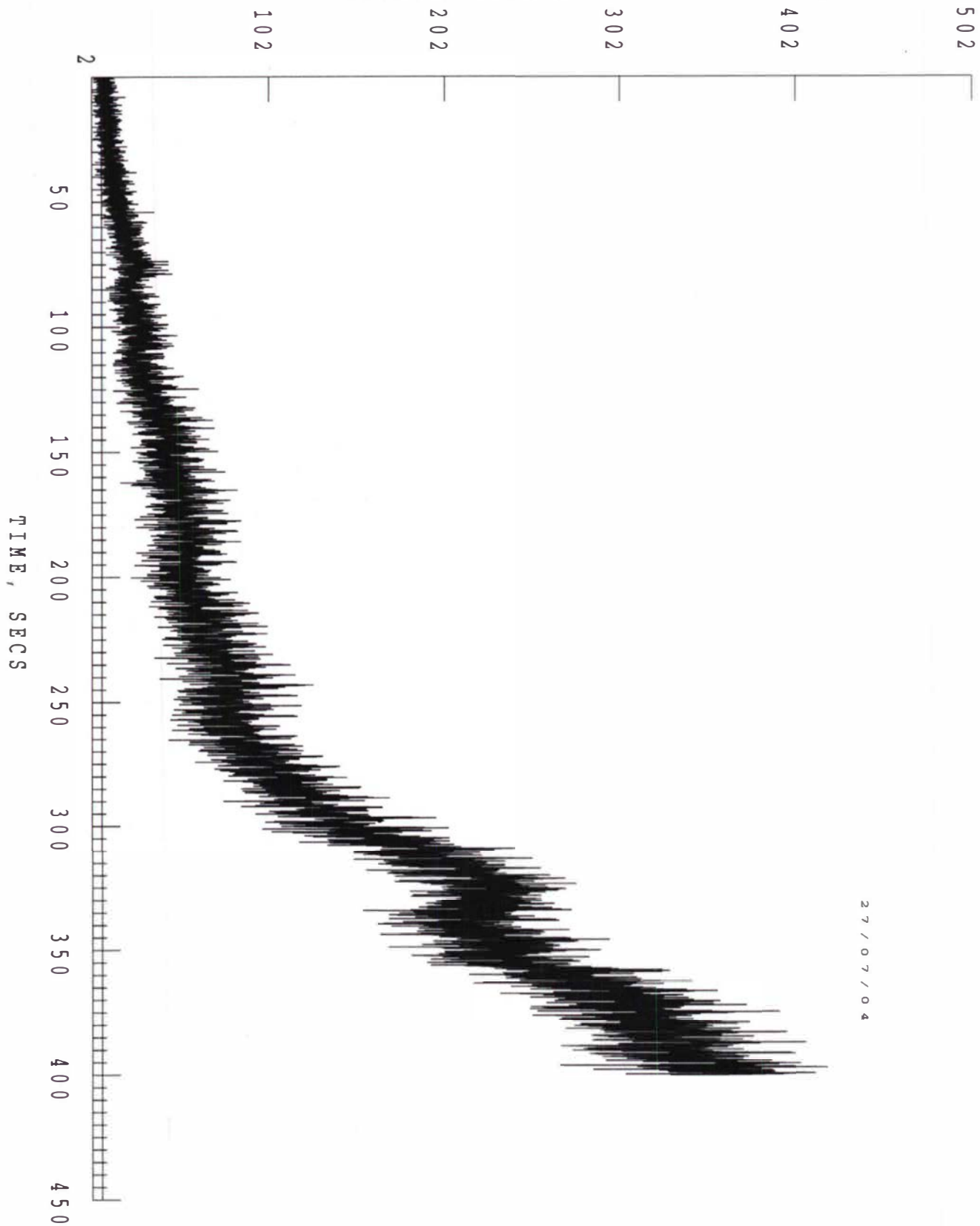


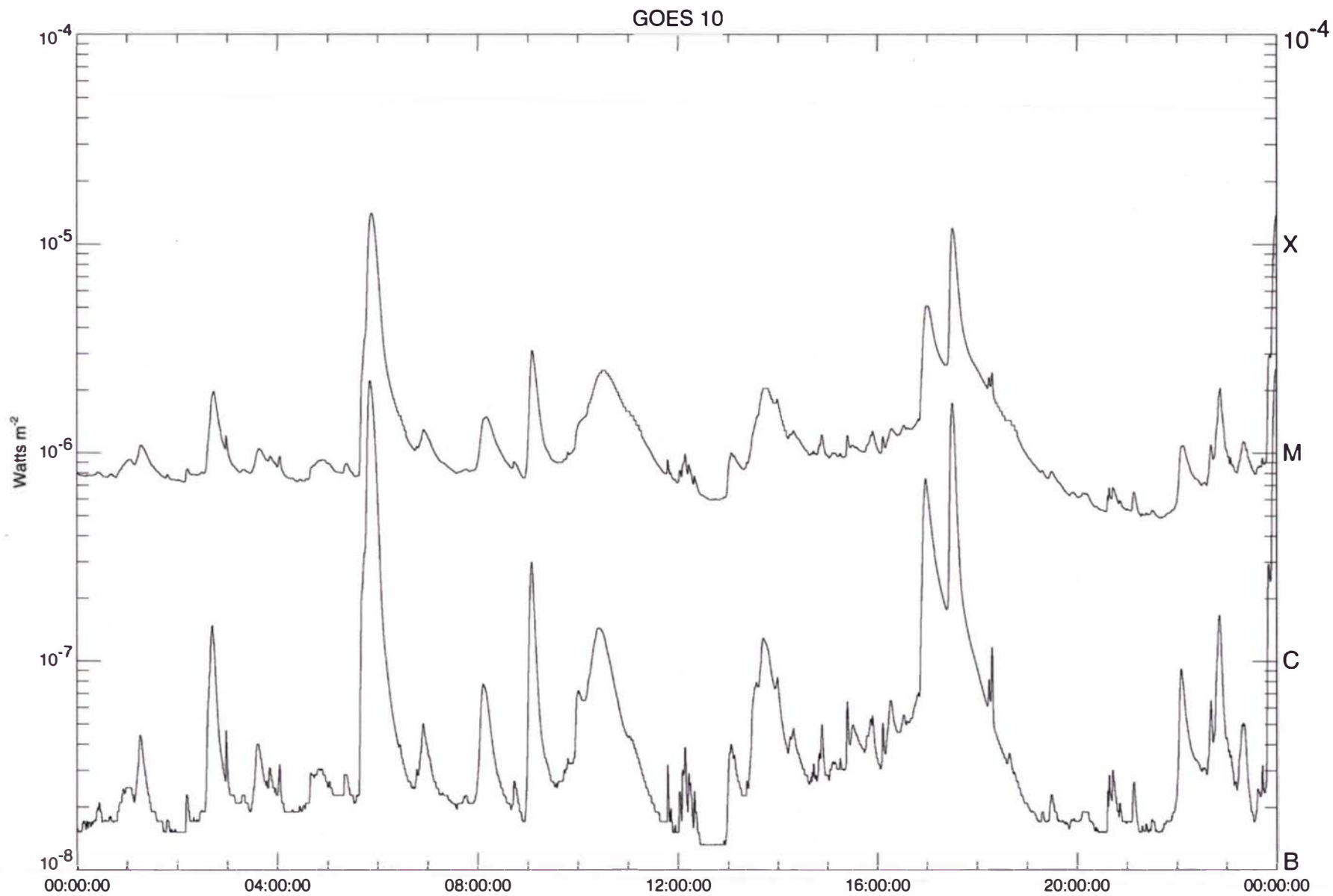
HESSI

26/07/04 85632.000 (GHETE_9999_1_20040726_85832)

25- 150 keV

COUNTS/0.031 S





Data Start: 04/07/26, 0000:00

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Plot created: 04/07/27, 0828

Sample average = 10

From hops@space.mit.edu Tue Jul 27 07:55:49 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Tue, 27 Jul 2004 14:56:48 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Tue Jul 27 14:56:48 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13213 TJD; 209 DOY; 04/07/27
GRB_TIME: 11330.08 SOD {03:08:50.08} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

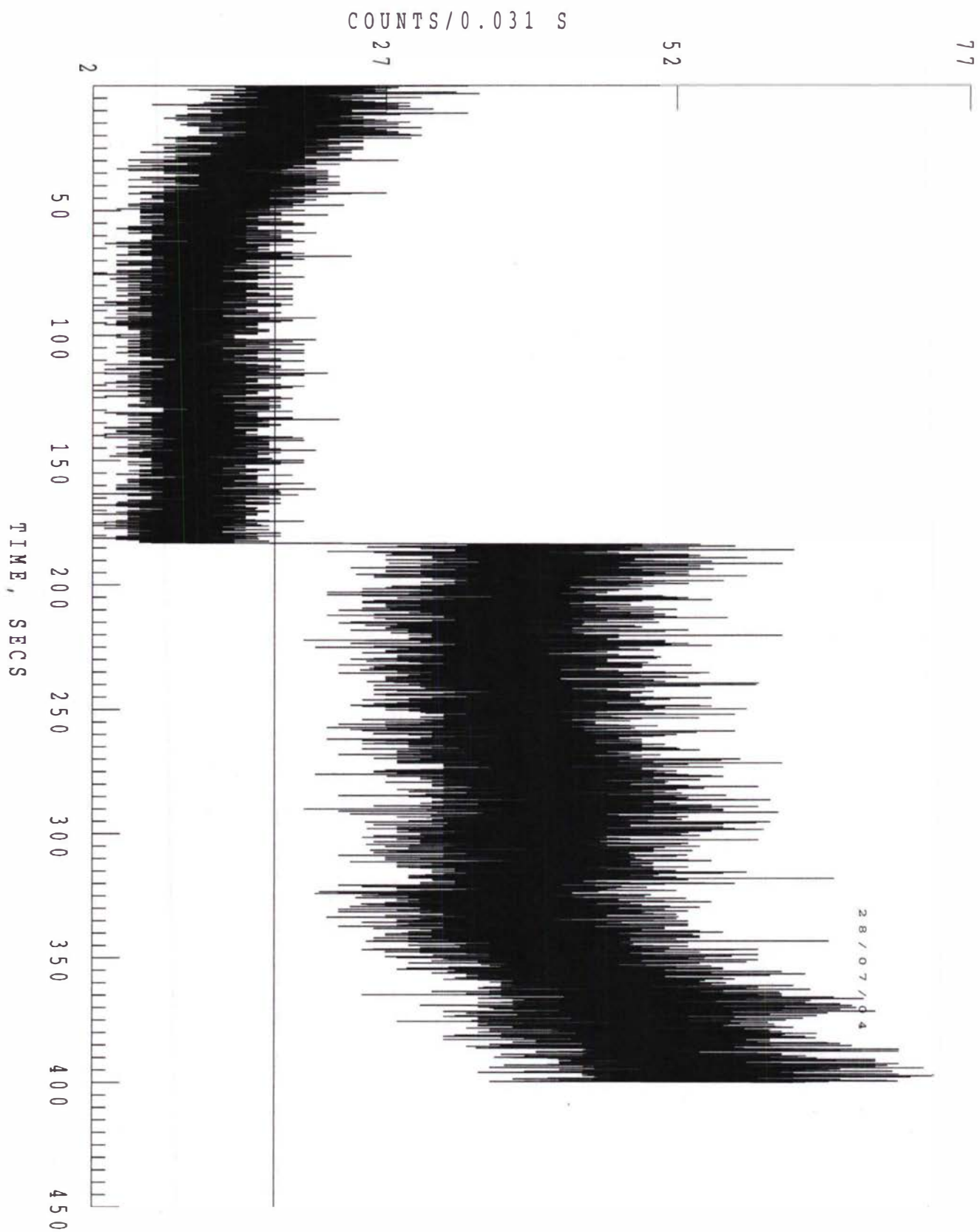
From williams@sunspot.ssl.berkeley.edu Sun Aug 1 05:59:28 2004
Date: Sun, 1 Aug 2004 06:02:46 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_GHETE_3466_1_20040727_11136

HESSI 25 to 150 keV Counts
Created 1-Aug-2004 05:59:21.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0312500
Time Range Partially in SAA
Time Range Partially in eclipse
Time Range Partially in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

HESSI

27/07/04 12030.000 (GHETE_3467_1_20040727_12230)

25- 150 keV



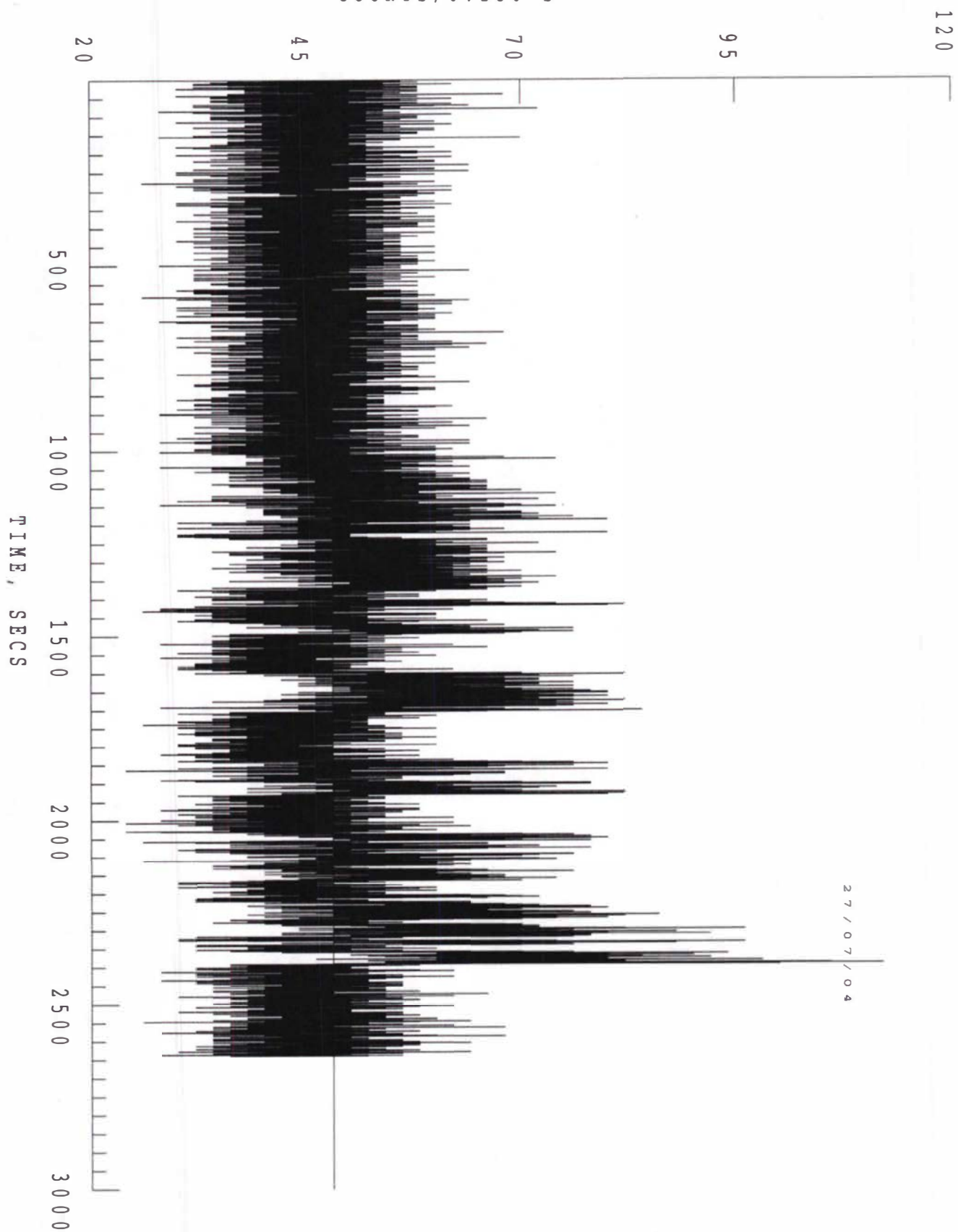
MS01

27/07/04

10885.290

50 - 3000 keV

COUNTS/0.250 S



KONUS2

27/07/04

20656.961

50 - 200 keV

05:44:16

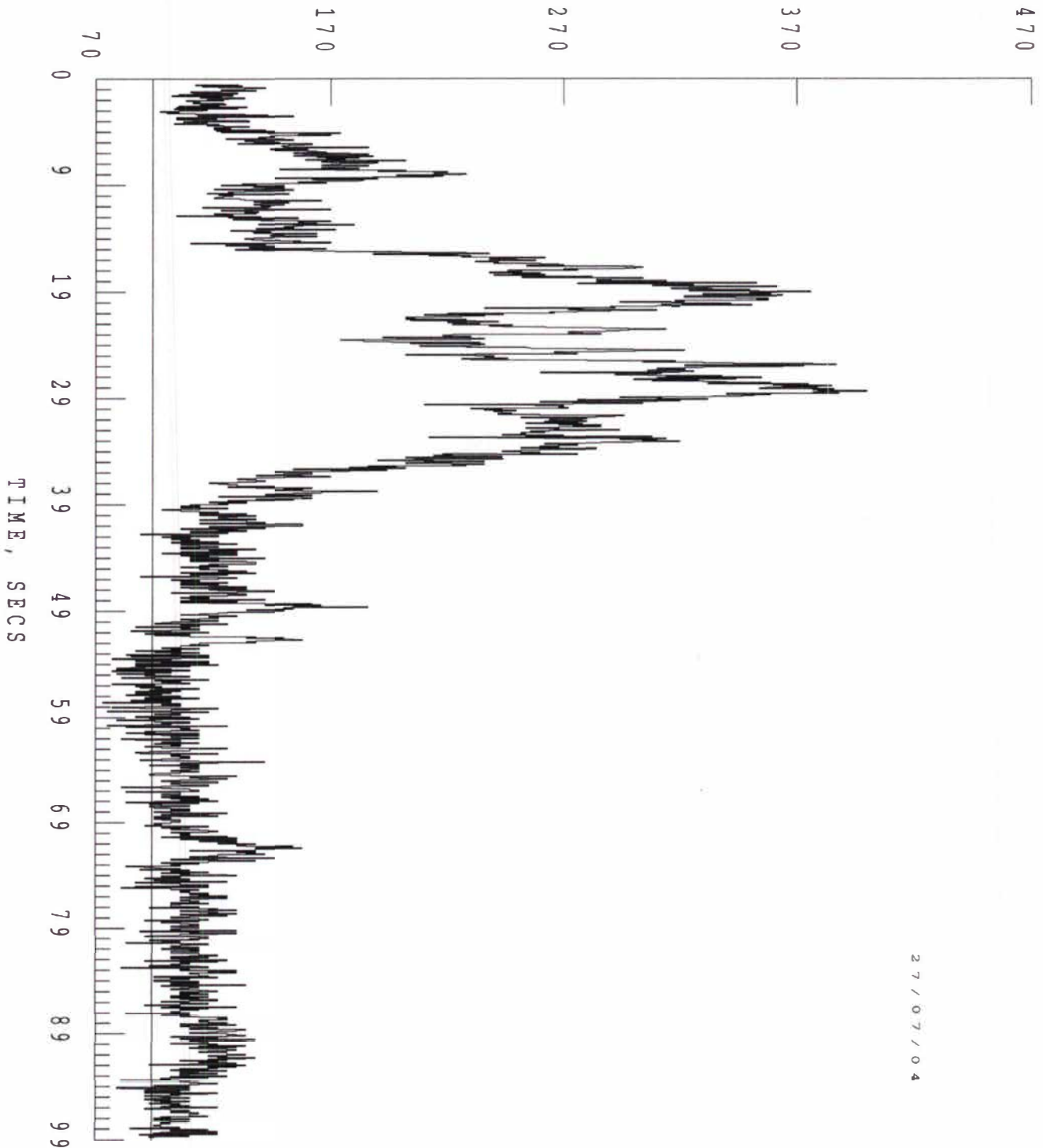
Solar according to

GOES

Not in either

Konus list

COUNTS/0.064 S



KONUS HRES 20040727 20656

TRIGGER TIME: 27/07/04 DOY 209 Julian 2453214.73907 UT = 05.738 05:44:16 (20656.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

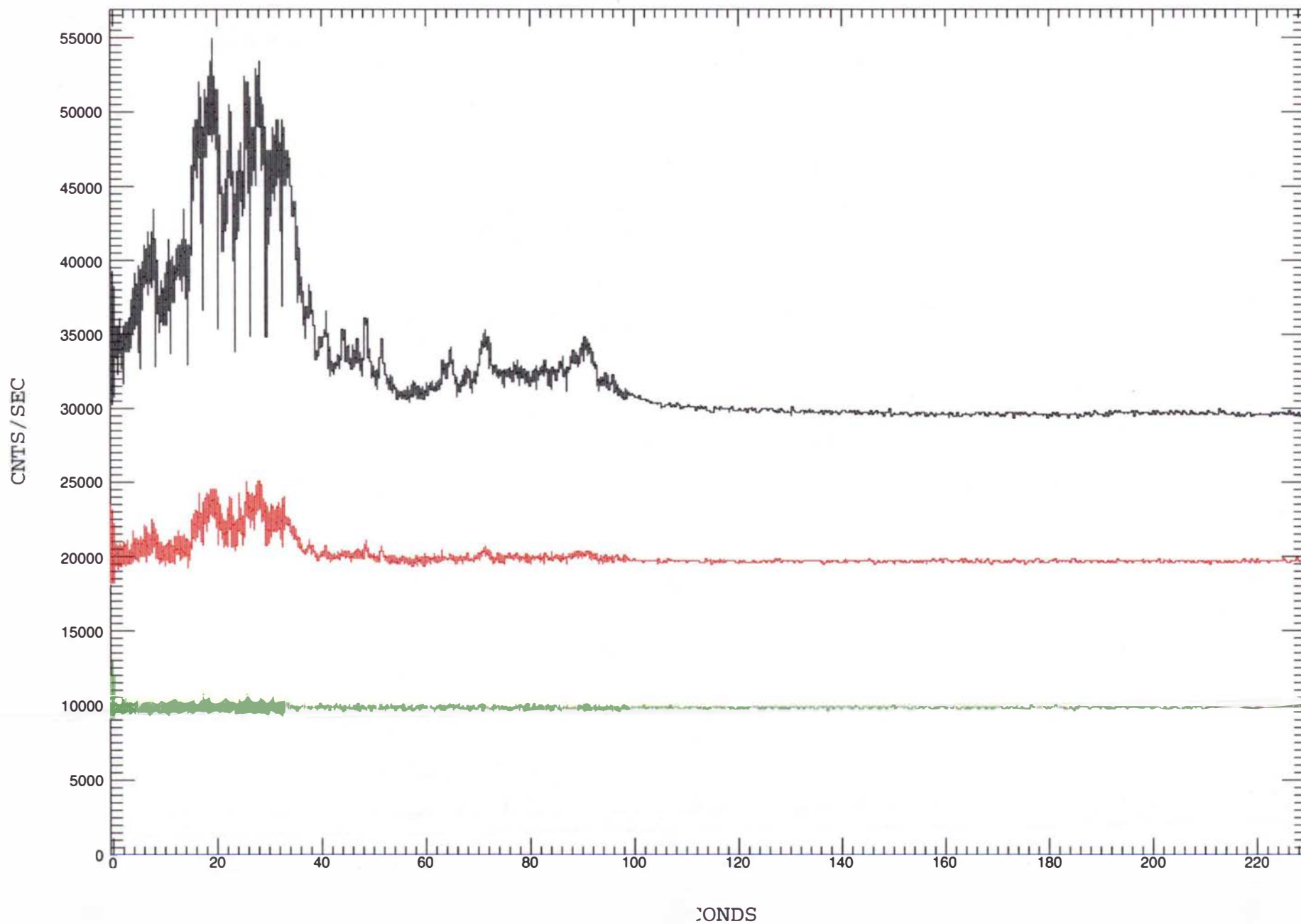
Chan 4 : [> 10 MeV]

Channel 1 + 27300

Channel 2 + 18200

Channel 3 + 9100

Channel 4 + 0



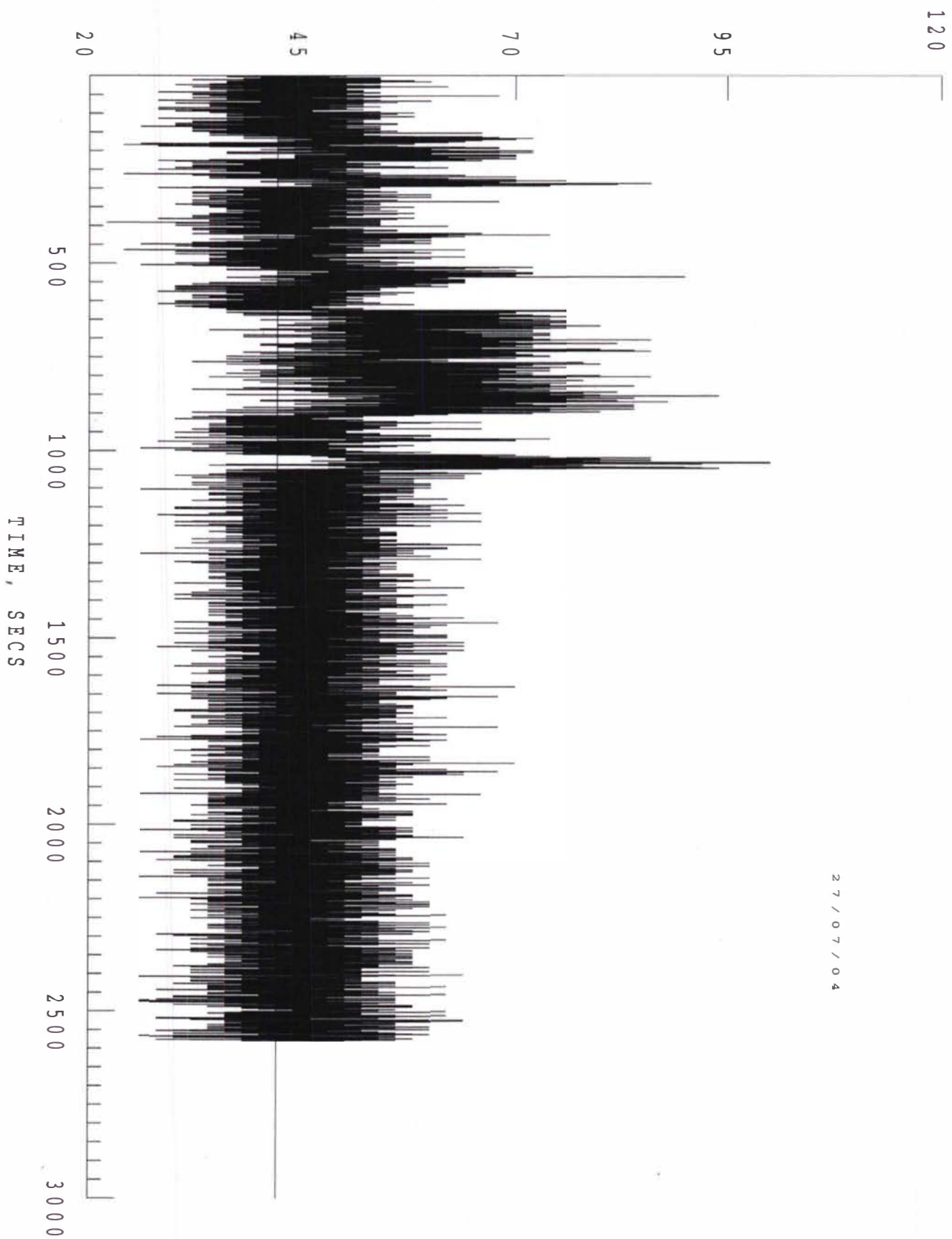
MS01

27/07/04

19344.873

50 - 3000 keV

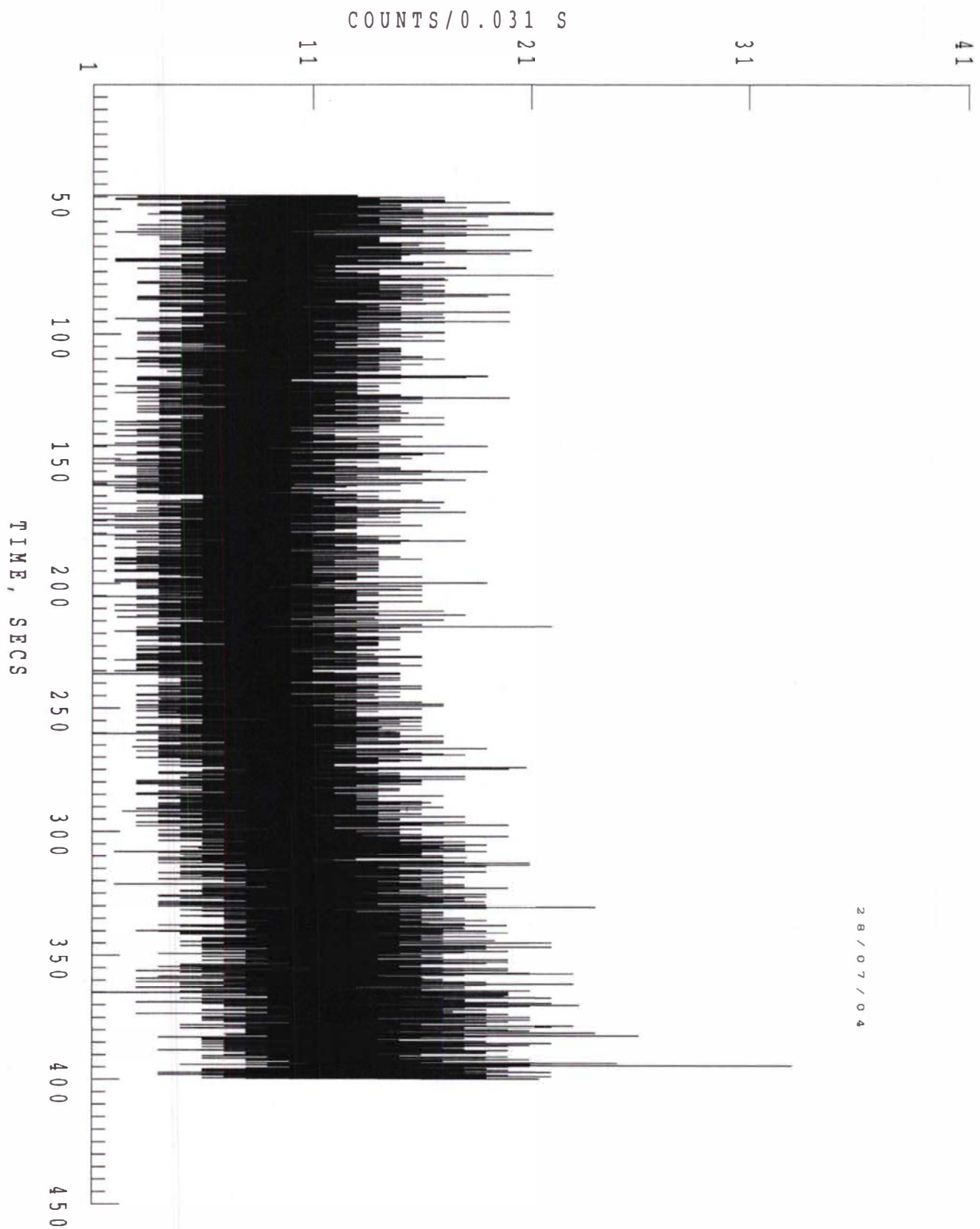
COUNTS/0.250 S



HESSI

27/07/04 20456.000 (KONUS2_20040727_20656)

25- 150 keV



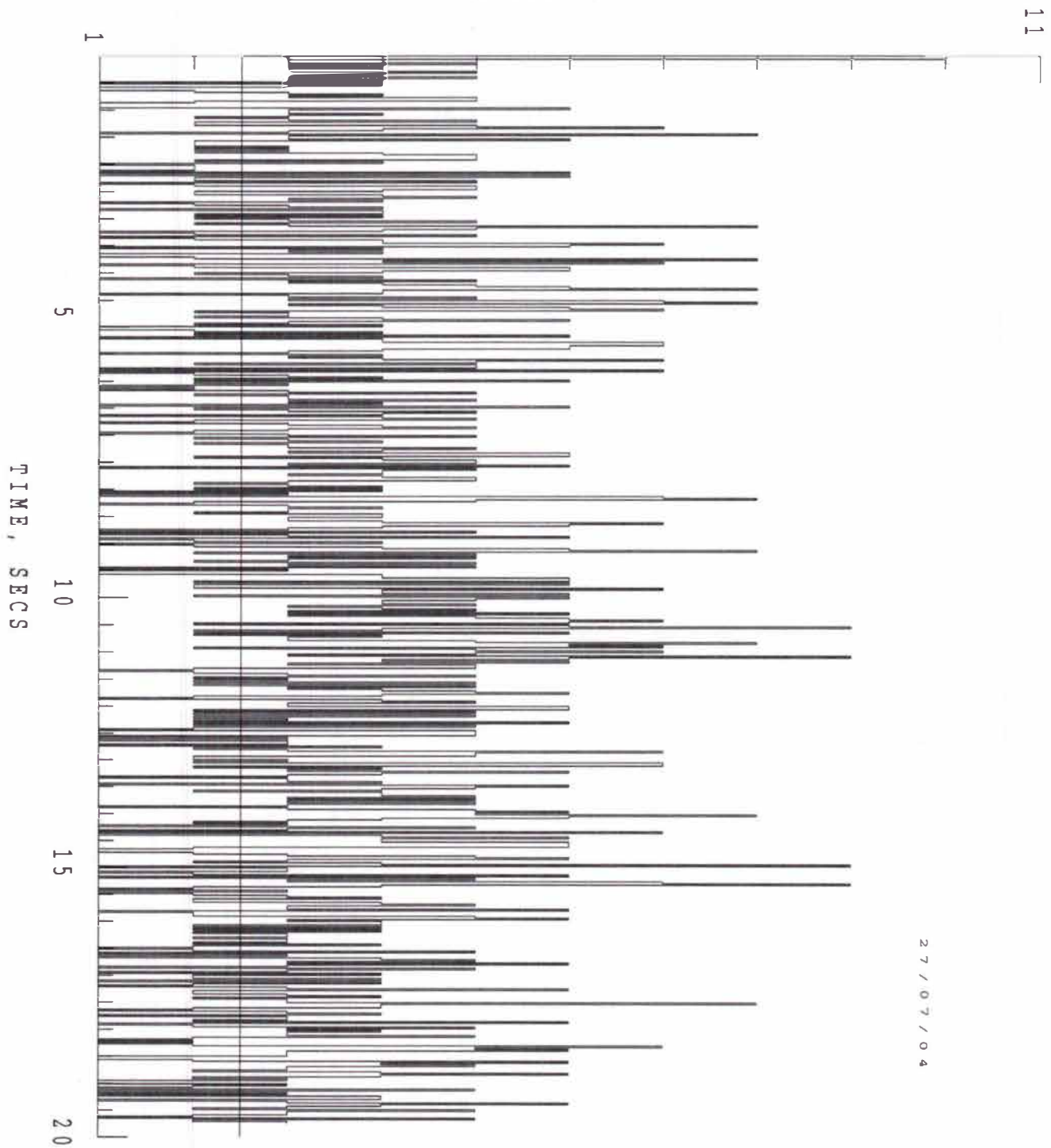
MO

27/07/04

36959.974

116- 337 keV

COUNTS/0.032 S



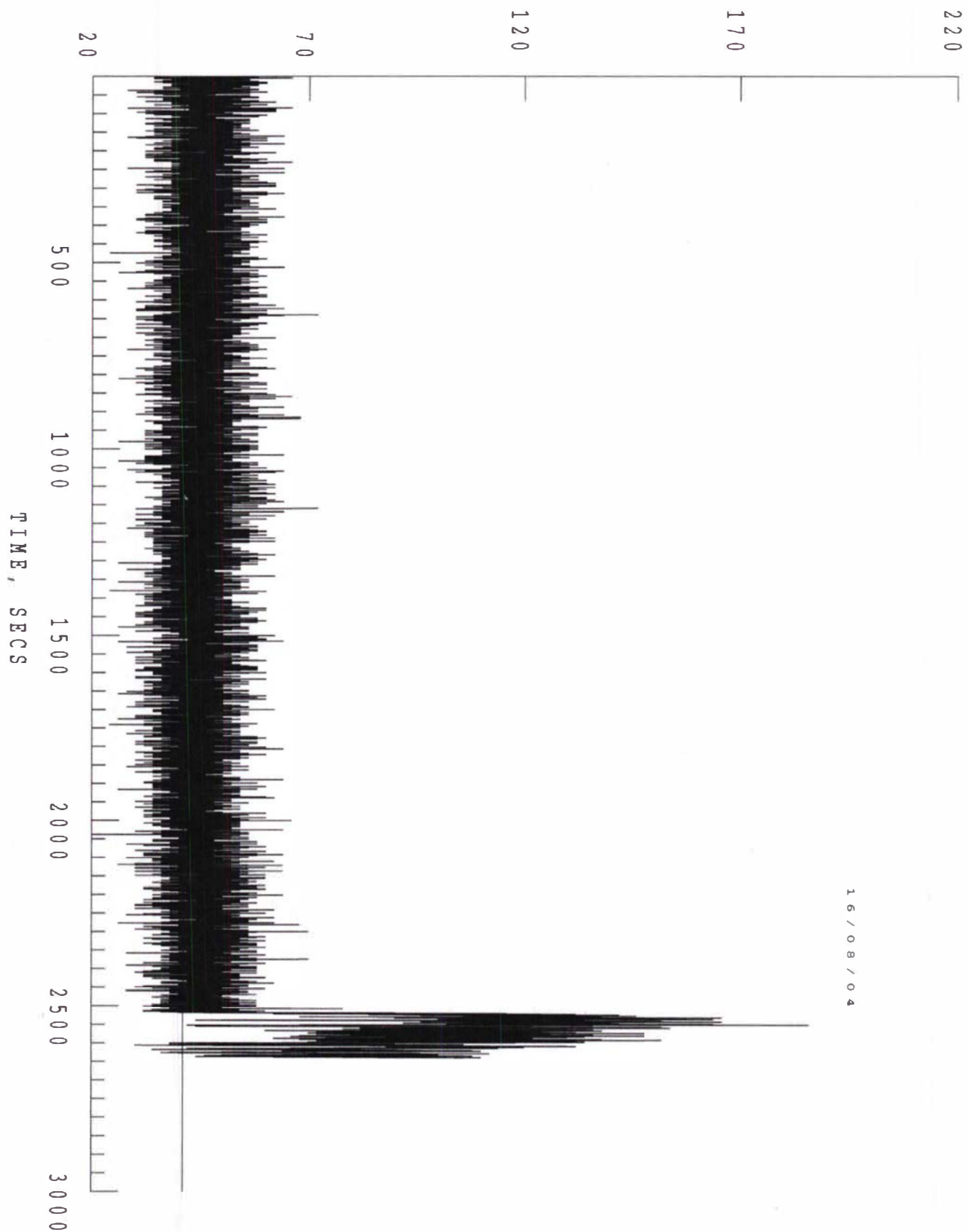
MS01

27/07/04

35604.579

50 - 3000 keV

COUNTS/0.250 S

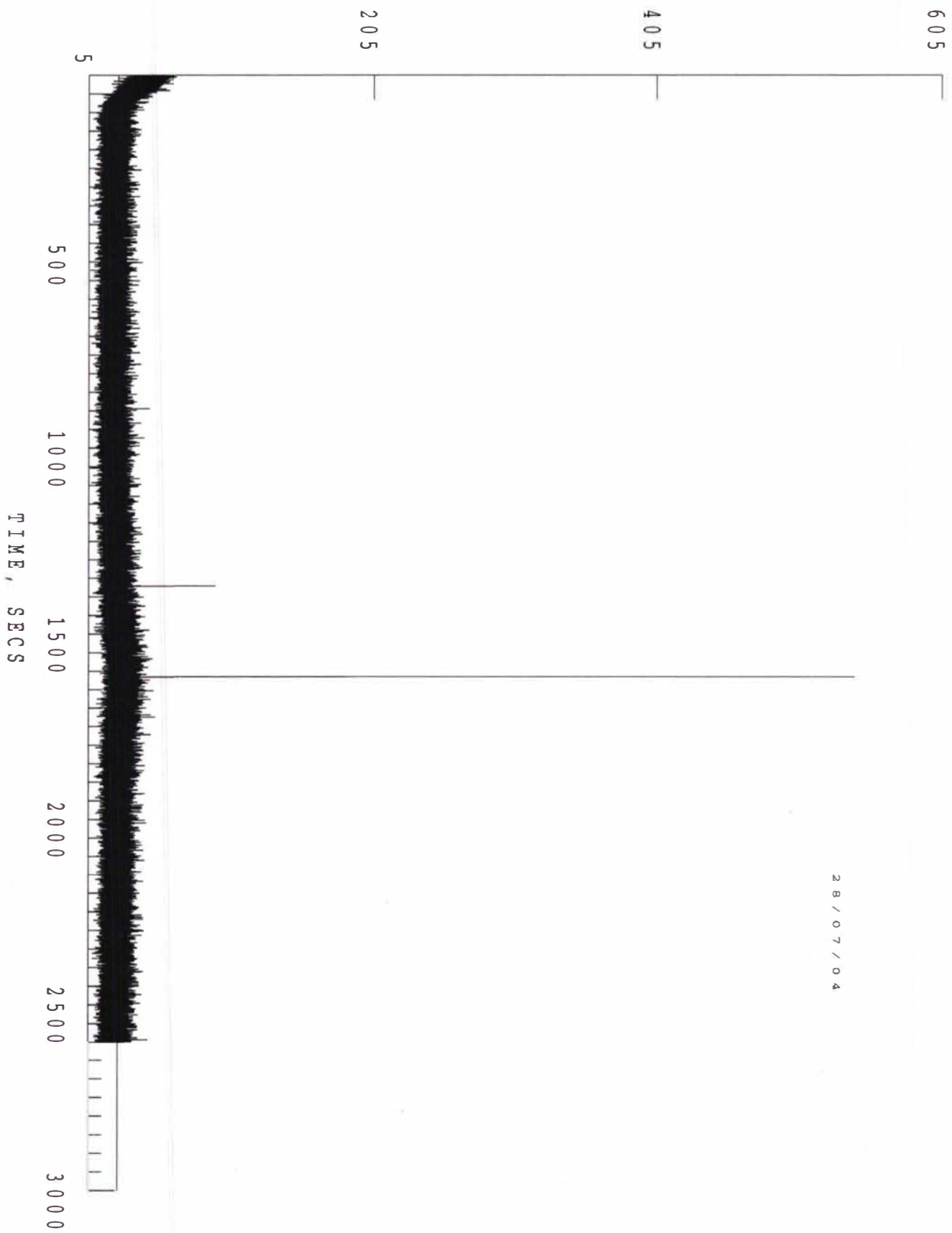


HESSI

27/07/04 35659.000 (MO_GE_20040727_36959)

25- 150 keV

COUNTS/0.031 S



From hops@space.mit.edu Tue Jul 27 09:16:42 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Tue, 27 Jul 2004 16:17:41 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www . canit . ca)

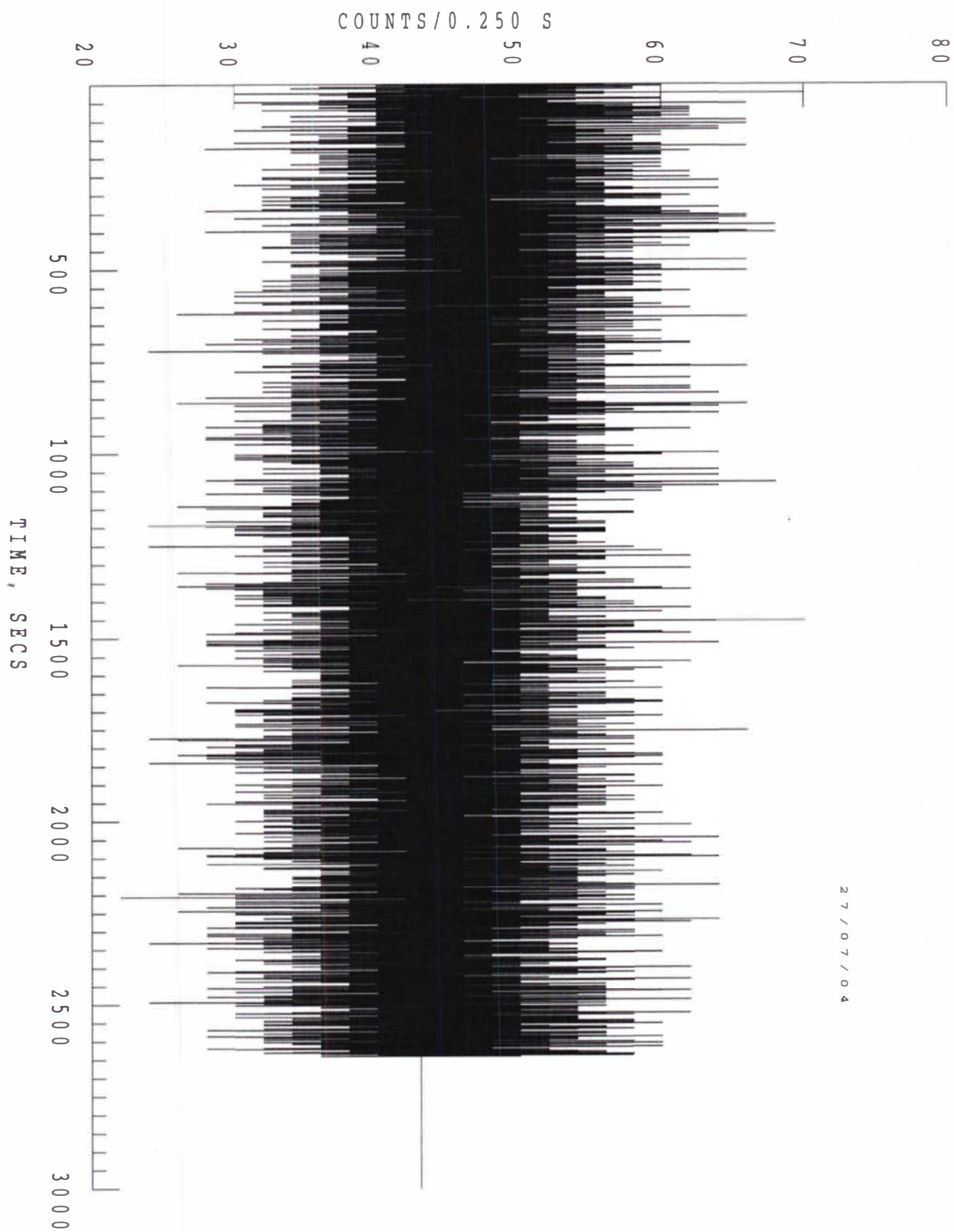
TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Tue Jul 27 16:17:41 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13213 TJD; 209 DOY; 04/07/27
GRB_TIME: 48031.43 SOD {13:20:31.43} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

MS01

27/07/04

46704.742

50 - 3000 keV

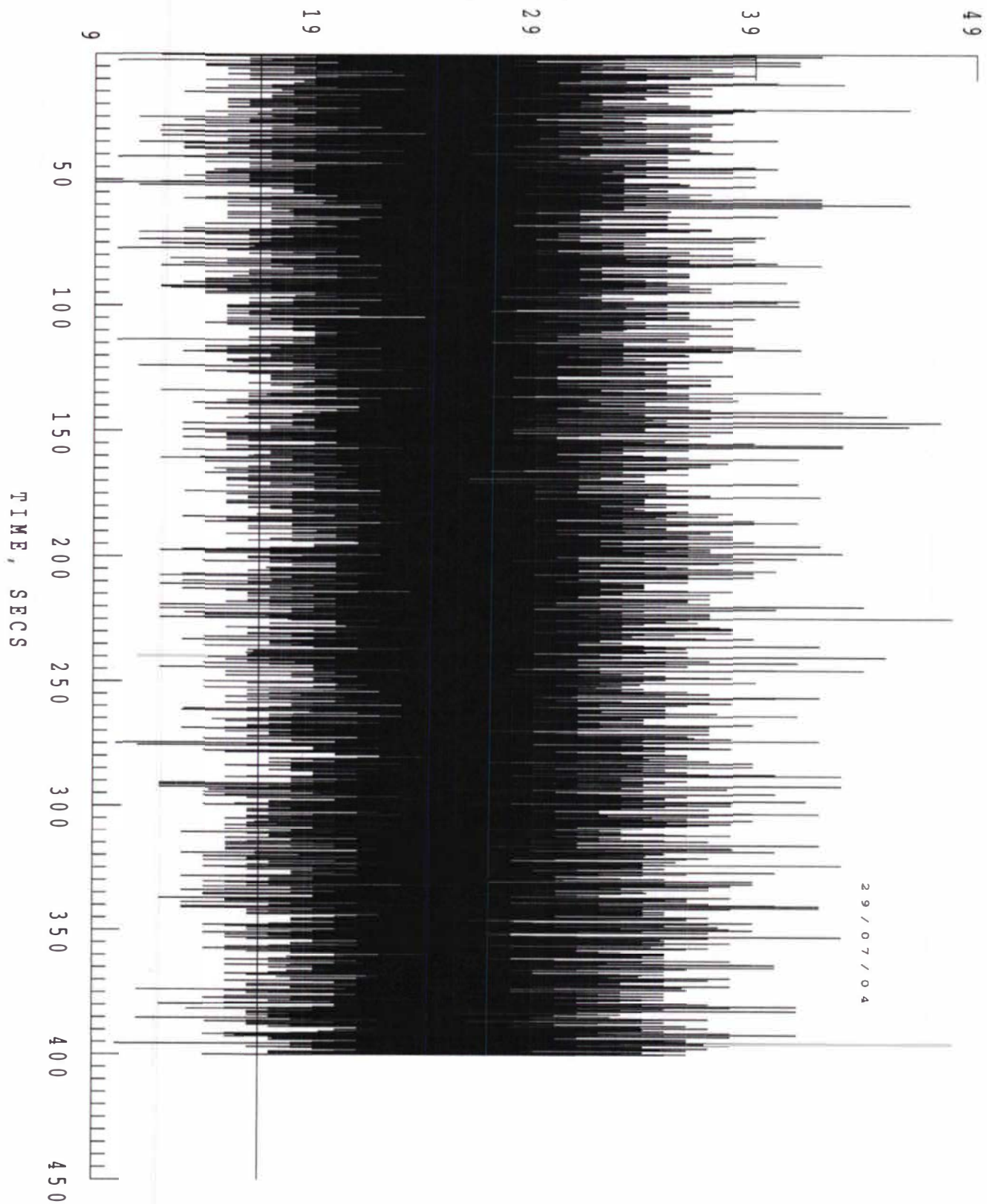


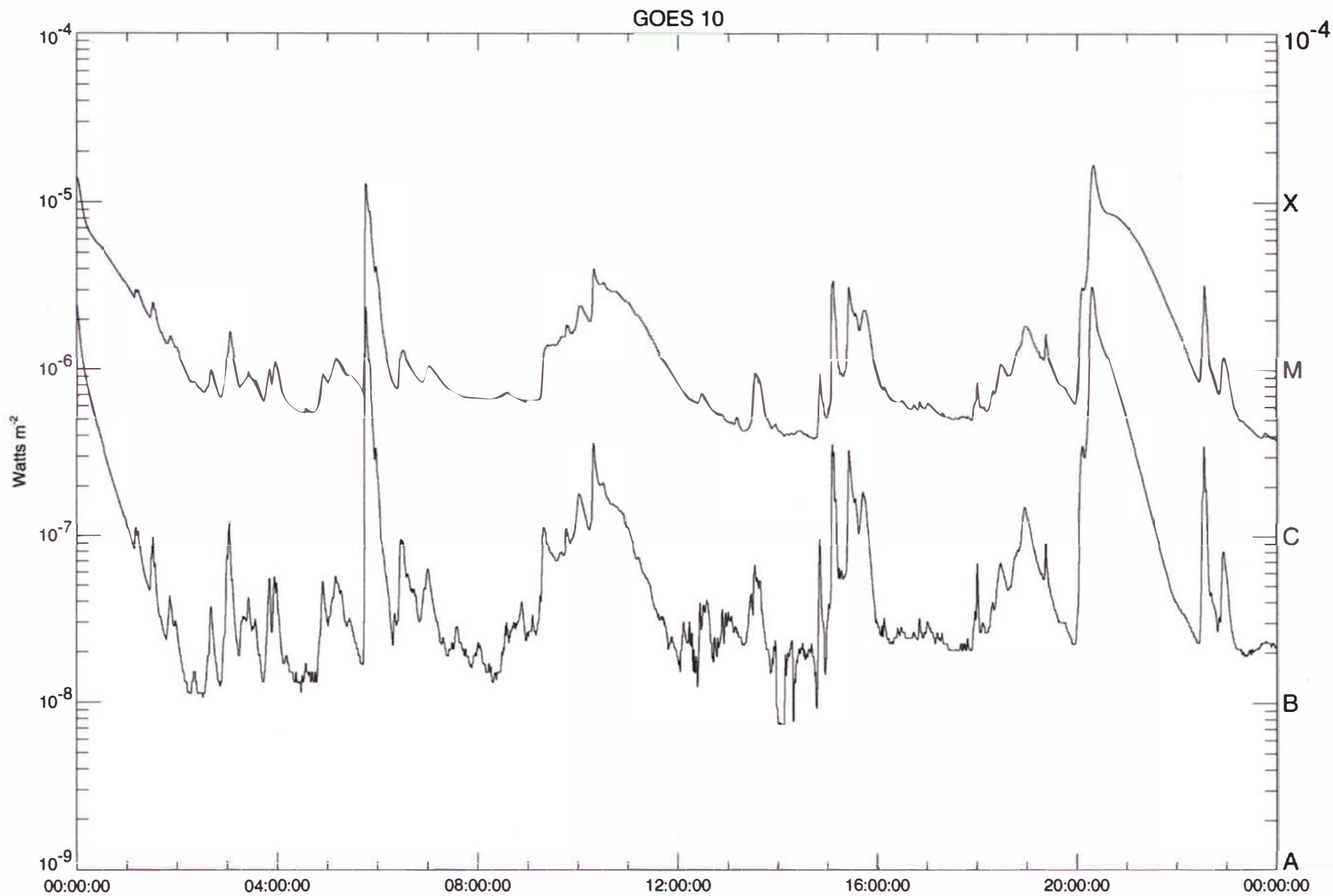
HESSI

27/07/04 47831.000 (GHETE_9999_1_20040727_48031)

25- 150 keV

COUNTS/0.031 S





Data Start: 04/07/27, 0000:00

Plot created: 04/07/28, 0829

Channel

1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

Sample average = 10

From hops@space.mit.edu Tue Jul 27 20:18:18 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Wed, 28 Jul 2004 03:19:17 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Wed Jul 28 03:19:17 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13214 TJD; 210 DOY; 04/07/28
GRB_TIME: 5291.48 SOD {01:28:11.48} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

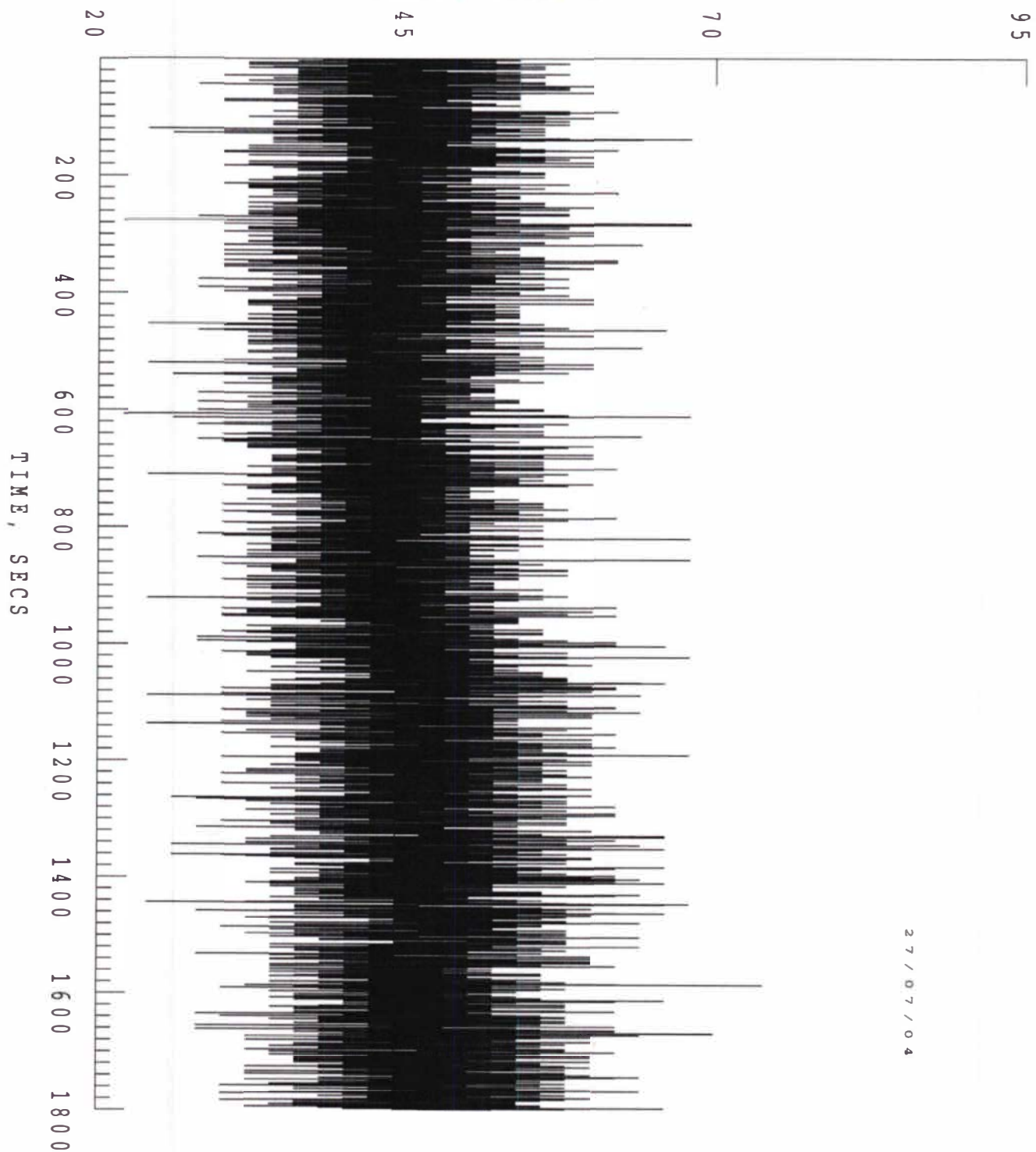
MS01

28/07/04

3983.936

50 - 3000 keV

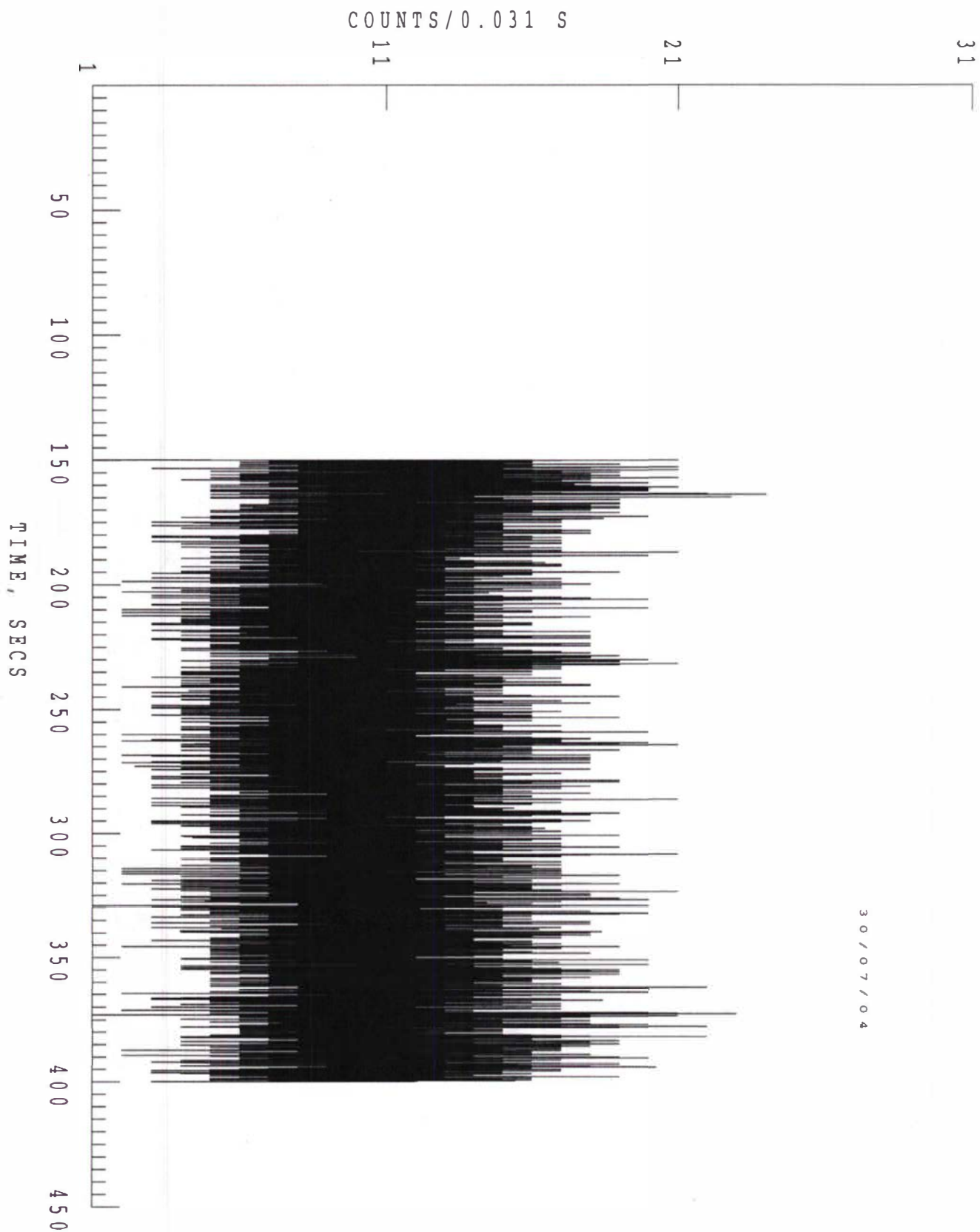
COUNTS/0.250 S



HESSI

28/07/04 5091.000 (GHETE_9999_1_20040728_05291)

25- 150 keV



From hops@space.mit.edu Tue Jul 27 23:57:55 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Wed, 28 Jul 2004 06:58:55 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Wed Jul 28 06:58:55 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13214 TJD; 210 DOY; 04/07/28
GRB_TIME: 11061.85 SOD {03:04:21.85} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

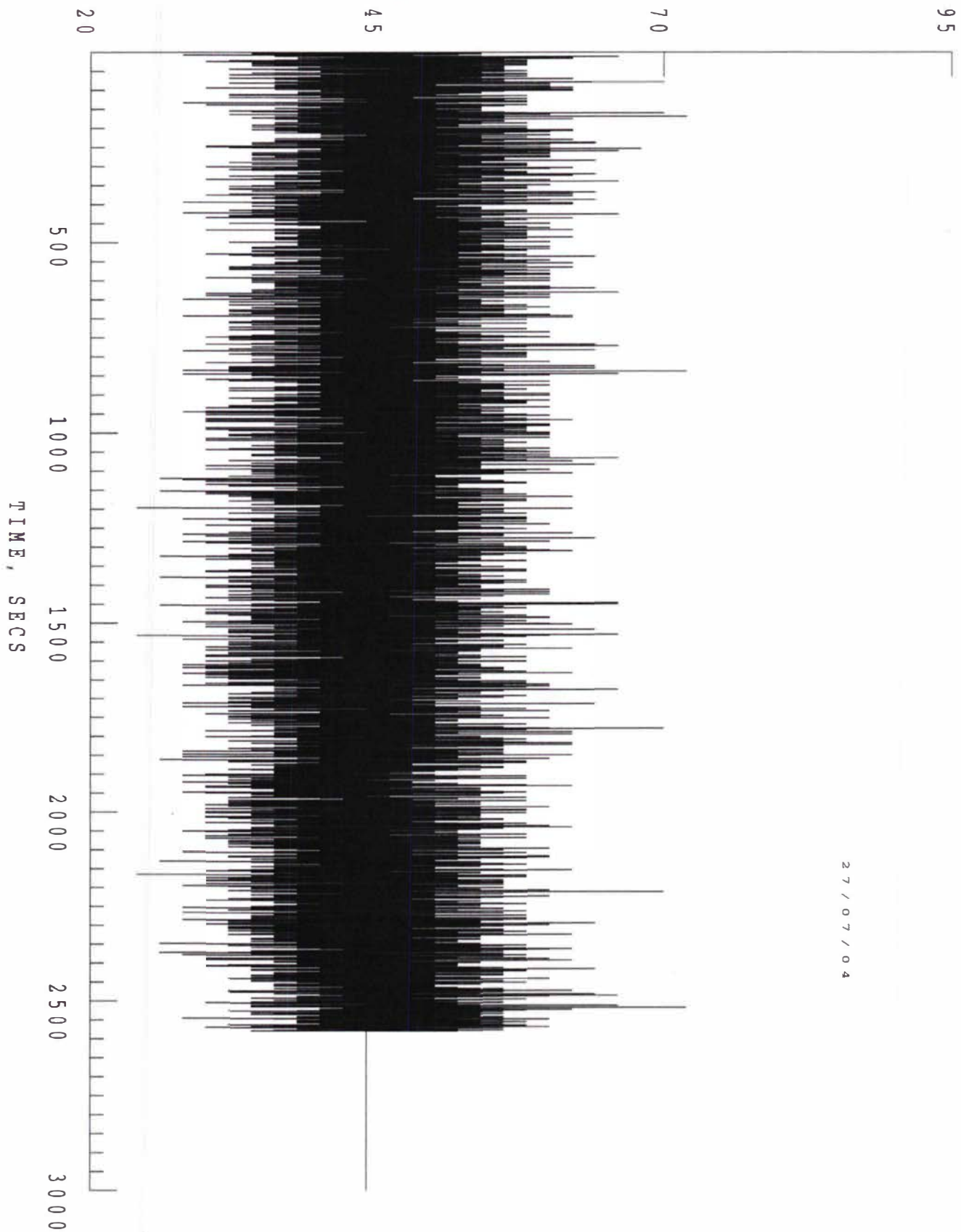
MS01

28/07/04

9743.830

50 - 3000 keV

COUNTS/0.250 S



27/07/04

From williams@sunspot.ssl.berkeley.edu Mon Aug 2 05:59:18 2004
Date: Mon, 2 Aug 2004 06:02:35 -0700 (PDT)
From: williams@ssl.berkeley.edu
>: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_GHETE_9999_1_20040728_11061

HESSI 25 to 150 keV Counts
Created 2-Aug-2004 05:59:10.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.0312500
Time Range Partially in SAA
Time Range Partially in eclipse
Time Range Partially in non-SAA data gap
No Data Available For This Time Range
Do Not Retry

From hops@space.mit.edu Tue Jul 27 22:07:29 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Wed, 28 Jul 2004 05:08:18 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Wed Jul 28 05:08:18 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13214 TJD; 210 DOY; 04/07/28
GRB_TIME: 11351.82 SOD {03:09:11.82} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

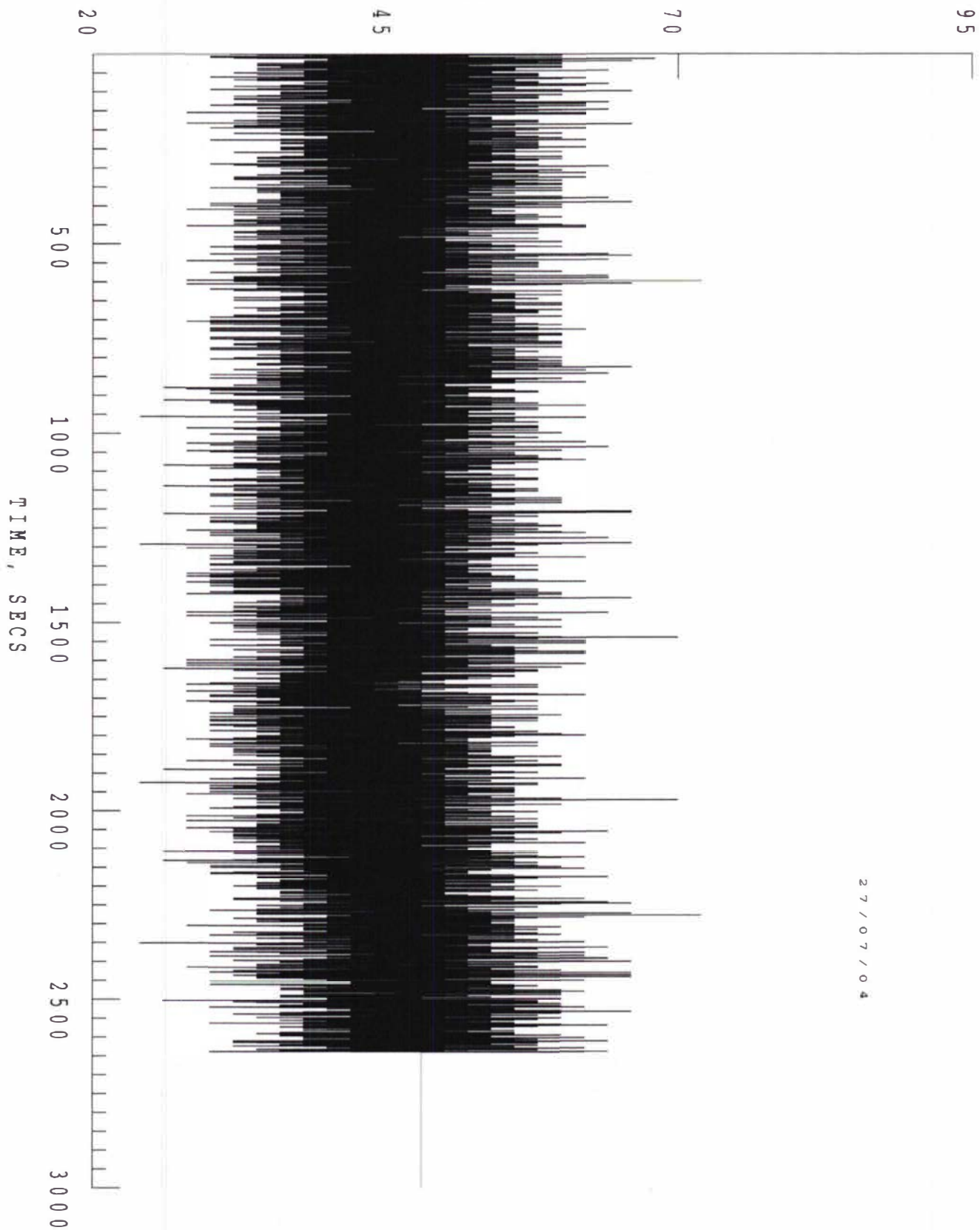
MS01

28/07/04

9983.831

50 - 3000 keV

COUNTS/0.250 S



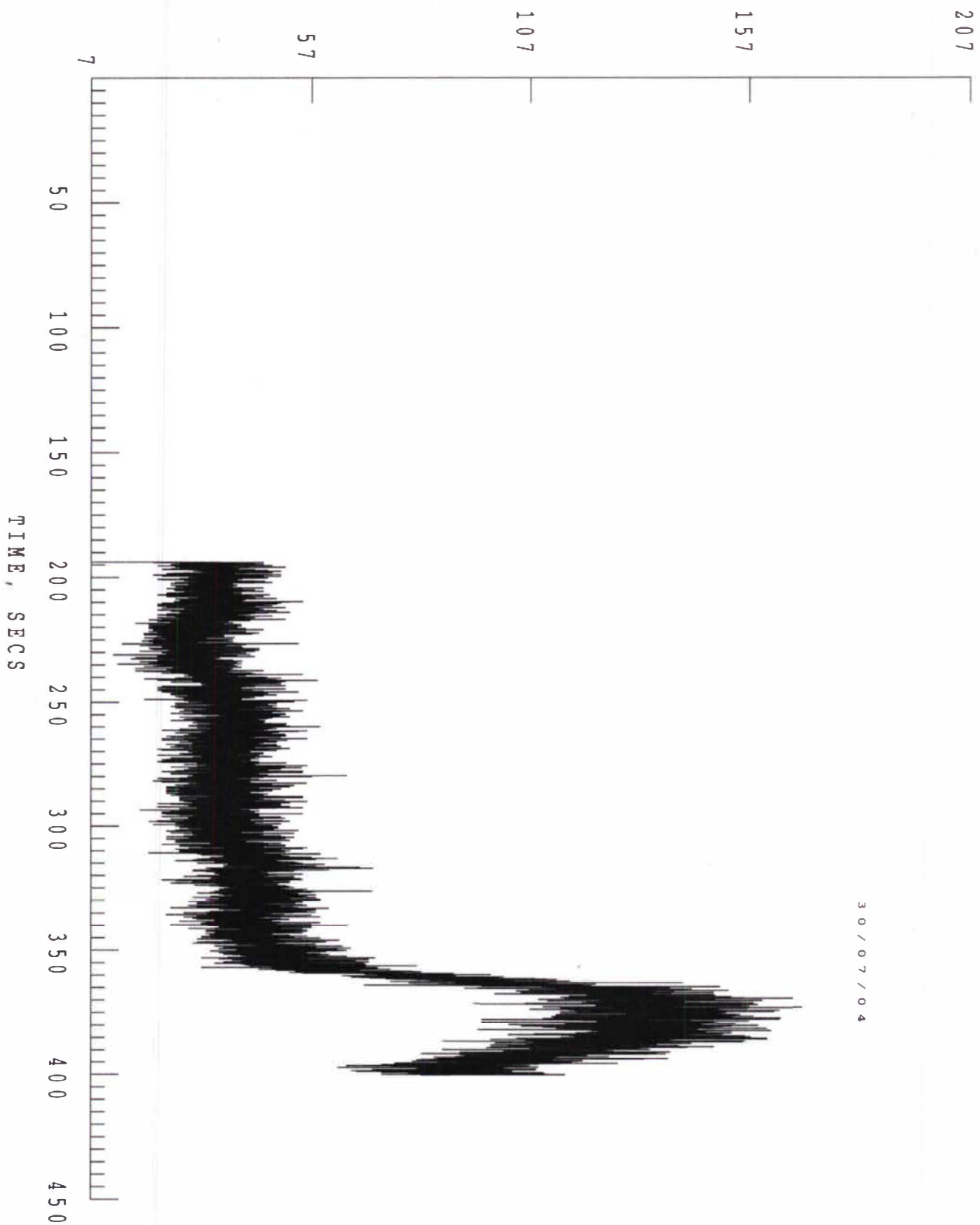
27/07/04

HESSI

28/07/04 11151.000 (GHETE_9999_1_20040728_11351)

25- 150 keV

COUNTS/0.031 S



From hops@space.mit.edu Wed Jul 28 00:09:56 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Wed, 28 Jul 2004 07:10:55 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE DATE: Wed Jul 28 07:10:55 GMT 2004
NOTICE TYPE: HETE S/C Alert
TRIGGER NUM: 9999, Seq_Num: 1
GRB DATE: 13214 TJD; 210 DOY; 04/07/28
GRB TIME: 11457.00 SOD {03:10:57.00} UT
TRIGGER SOURCE: Nat's trigger robot
GAMMA RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

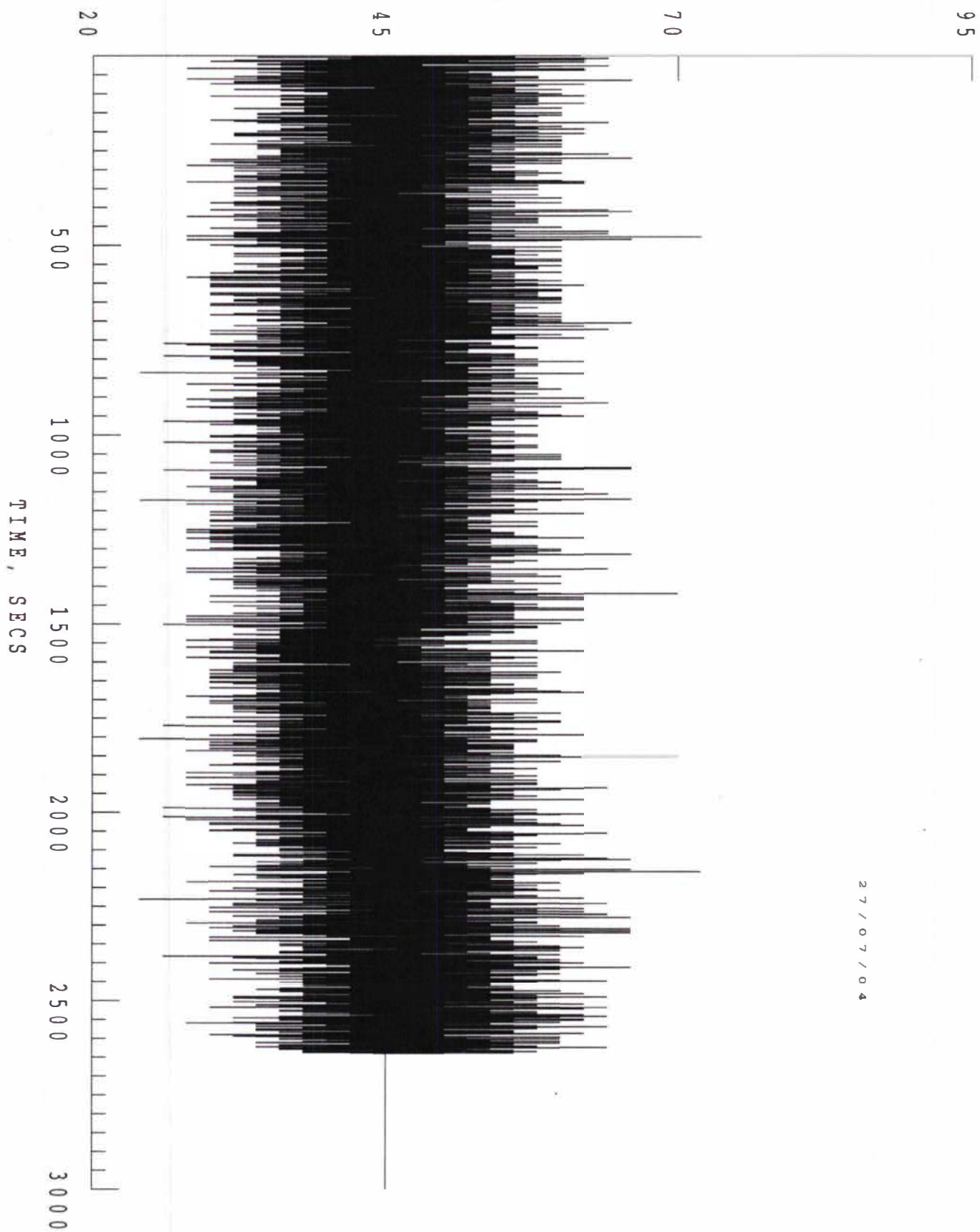
MS01

28/07/04

10103.829

50 - 3000 keV

COUNTS/0.250 S



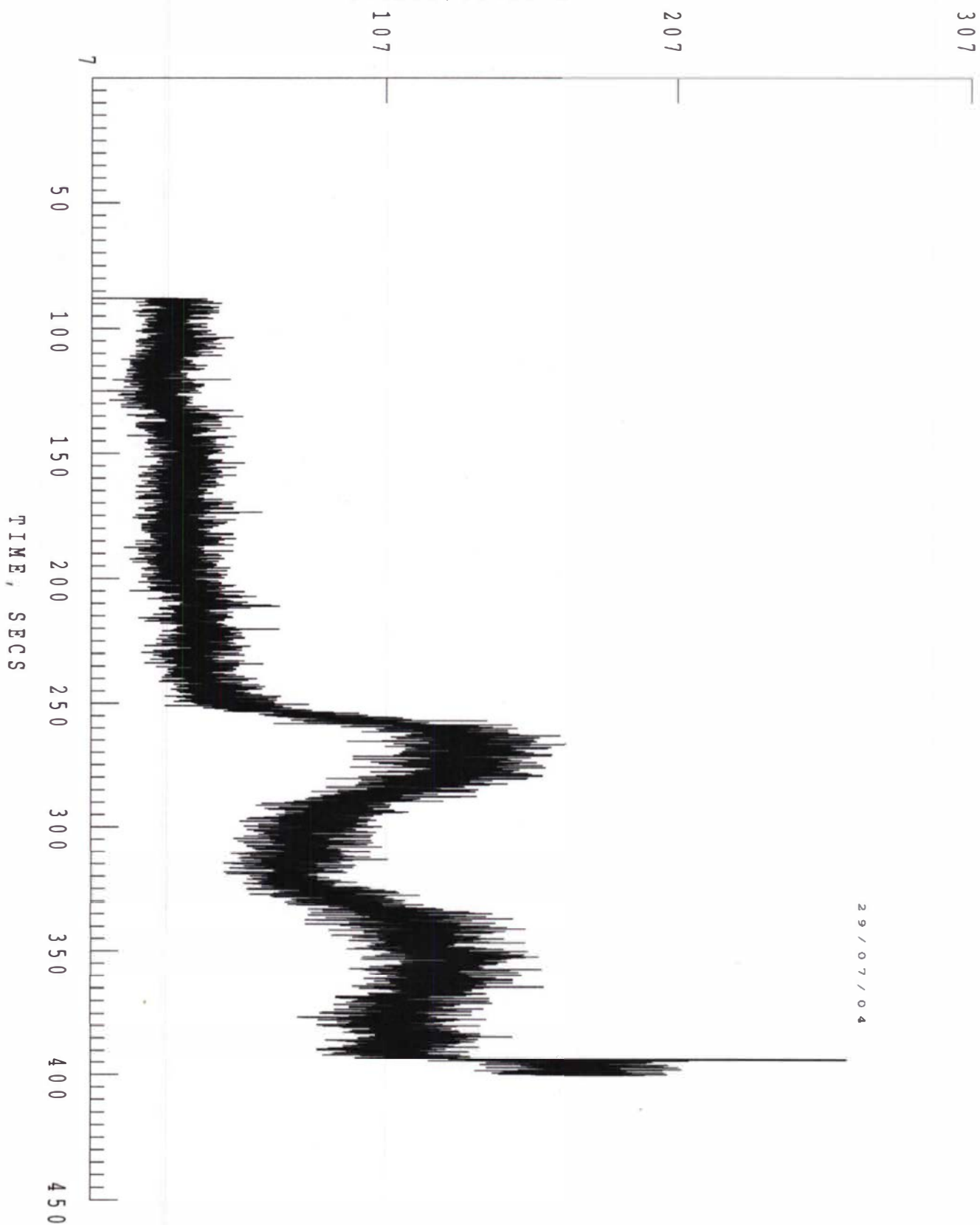
27/07/04

HESSI

28/07/04 11257.000 (GHETE_9999_1_20040728_11457)

25- 150 keV

COUNTS/0.031 S



From hops@space.mit.edu Wed Jul 28 00:10:09 2004
From: HETE Operator <hops@space.mit.edu>
Subject: Trigger Notice
To: khurley@ssl.berkeley.edu, autobrst@sunspot.ssl.berkeley.edu
Date: Wed, 28 Jul 2004 07:11:08 +0000 (GMT)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
X-CanItPRO-Stream: admin
X-Spam-Score: 0.3 () UPPERCASE_25_50
X-Scanned-By: CanIt (www.canit.ca)

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Wed Jul 28 07:11:08 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13214 TJD; 210 DOY; 04/07/28
GRB_TIME: 17504.66 SOD {04:51:44.66} UT
TRIGGER_SOURCE: Nat's trigger robot
GAMMA_RATE: 130 [cnts/s] on a 1.300 [sec] timescale
SC_Z_RA: 298 [deg]
SC_Z_DEC: -20 [deg]
SC_LONG: 342 [deg East]
SUN_POSTN: 114.99d {+07h 39m 58s} +21.45d {+21d 27' 06"}
MOON_POSTN: 186.62d {+12h 26m 28s} +2.56d {+02d 33' 31"}
MOON_ILLUM: 35 [%]
COMMENTS: Probable GRB.

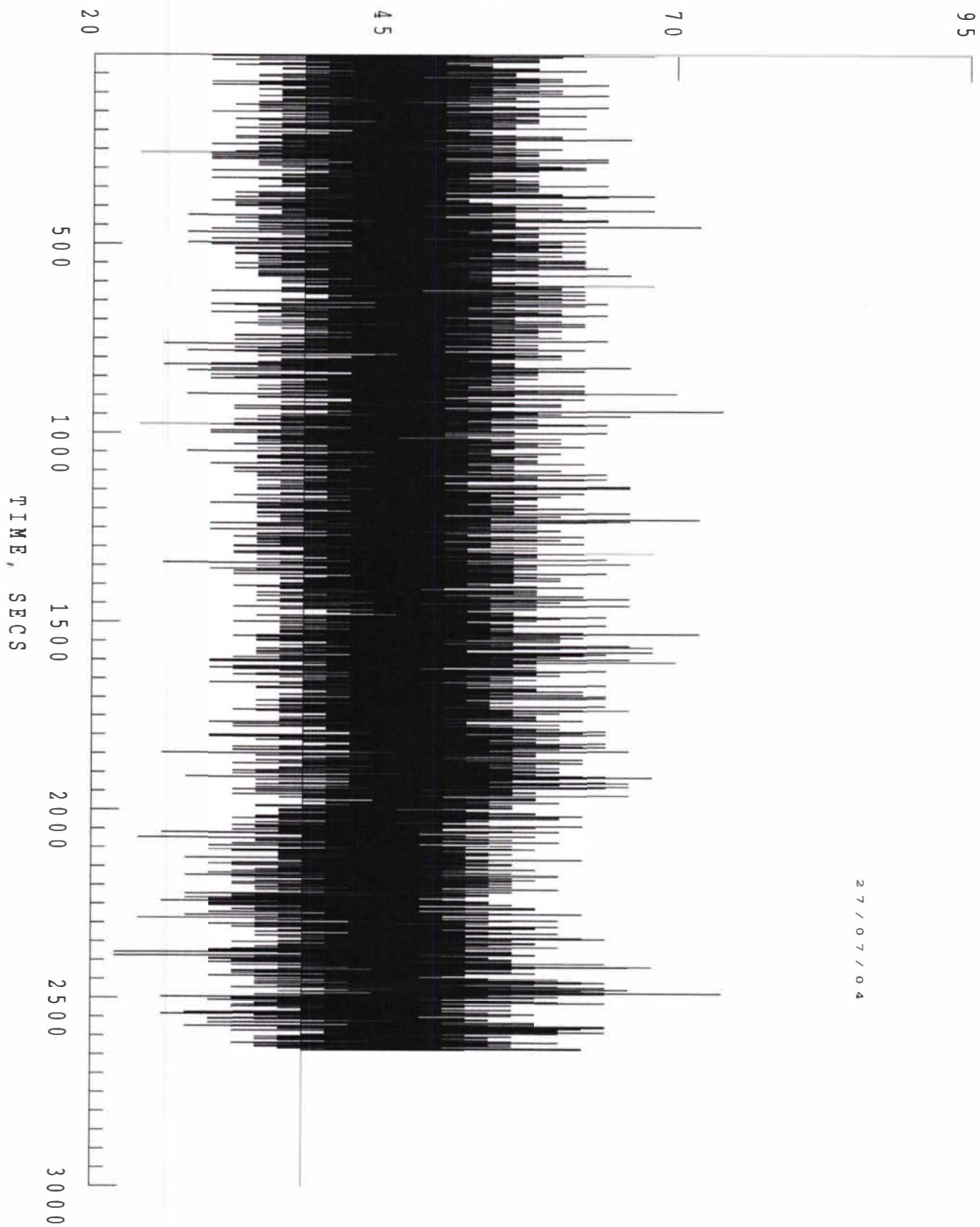
MS01

28/07/04

16163.716

50 - 3000 keV

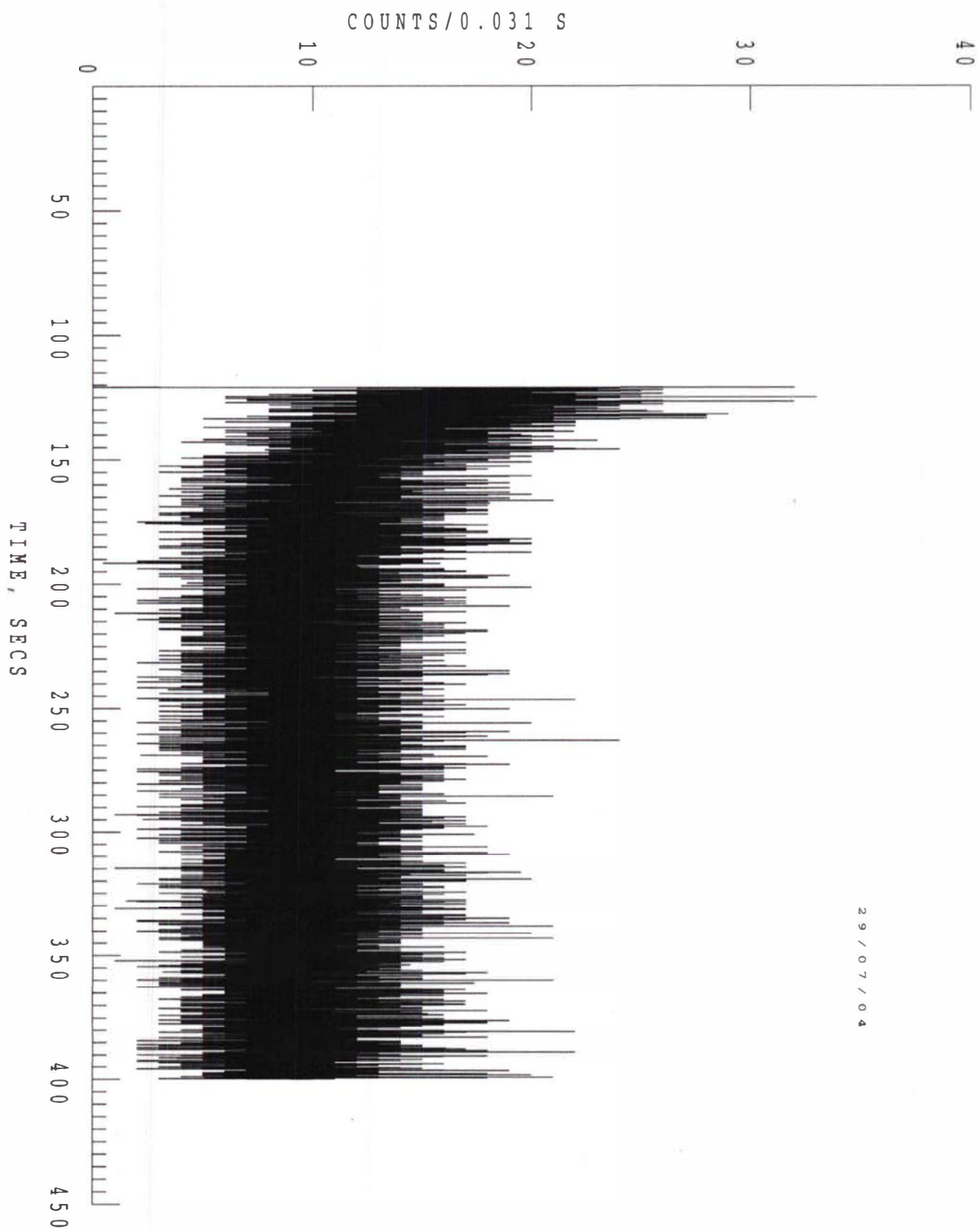
COUNTS/0.250 S



HESSI

28/07/04 17304.000 (GHETE_9999_1_20040728_17504)

25- 150 keV



From owner-hete-science@space.mit.edu Wed Jul 28 00:42:41 2004
Date: Wed, 28 Jul 2004 03:43:13 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: hete-science@space.mit.edu
Subject: [hete-science] BURST 3470, GAMMA trigger at 040728_065642
X-CanItPRO-Stream: admin
X-Spam-Score: 0 ()
X-Scanned-By: CanIt (www . canit . ca)

hops: BURST 3470, GAMMA band C trigger at 040728_065642, Long 22W, Phase 0.72 j

25002

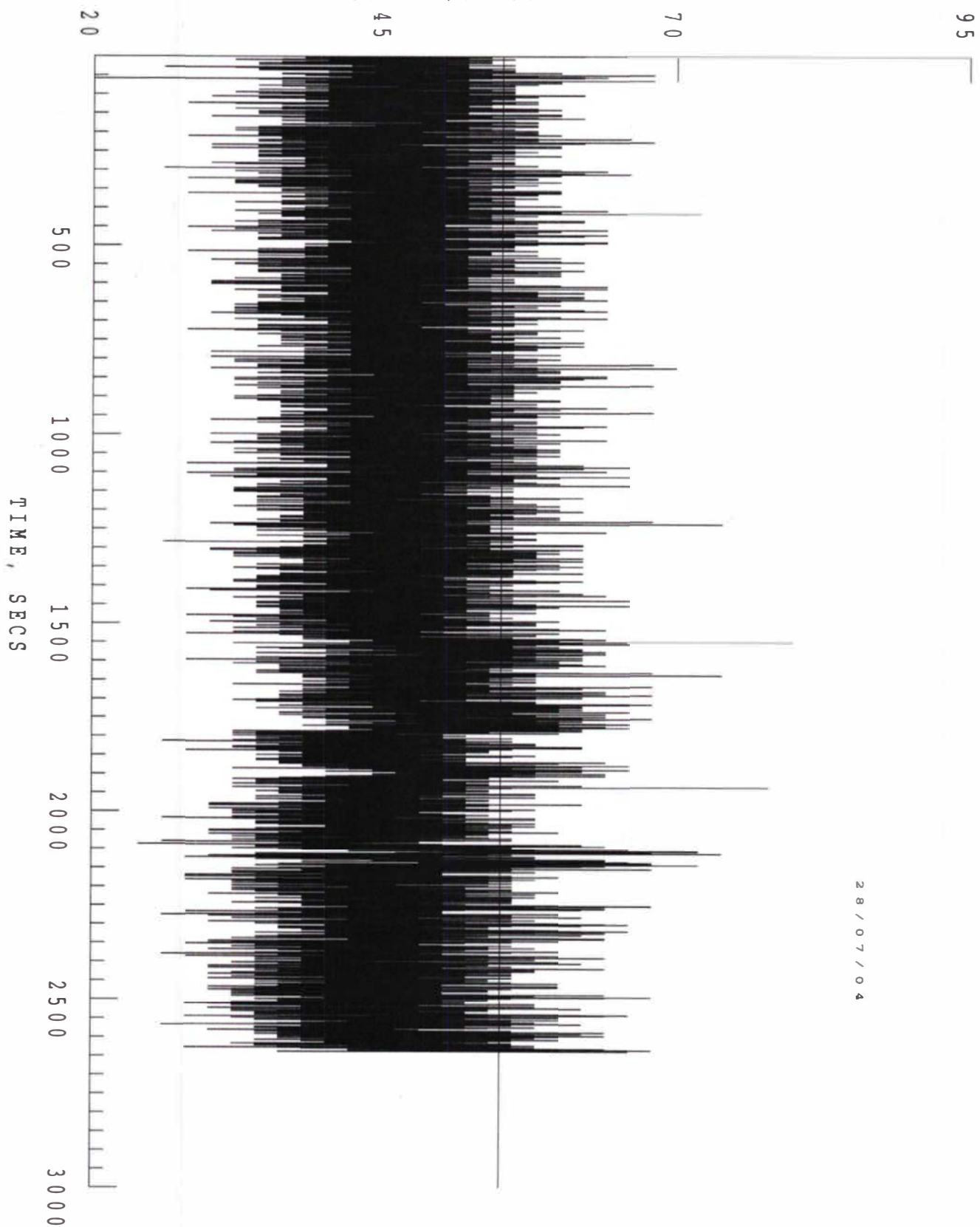
MS01

28/07/04

23663.583

50 - 3000 keV

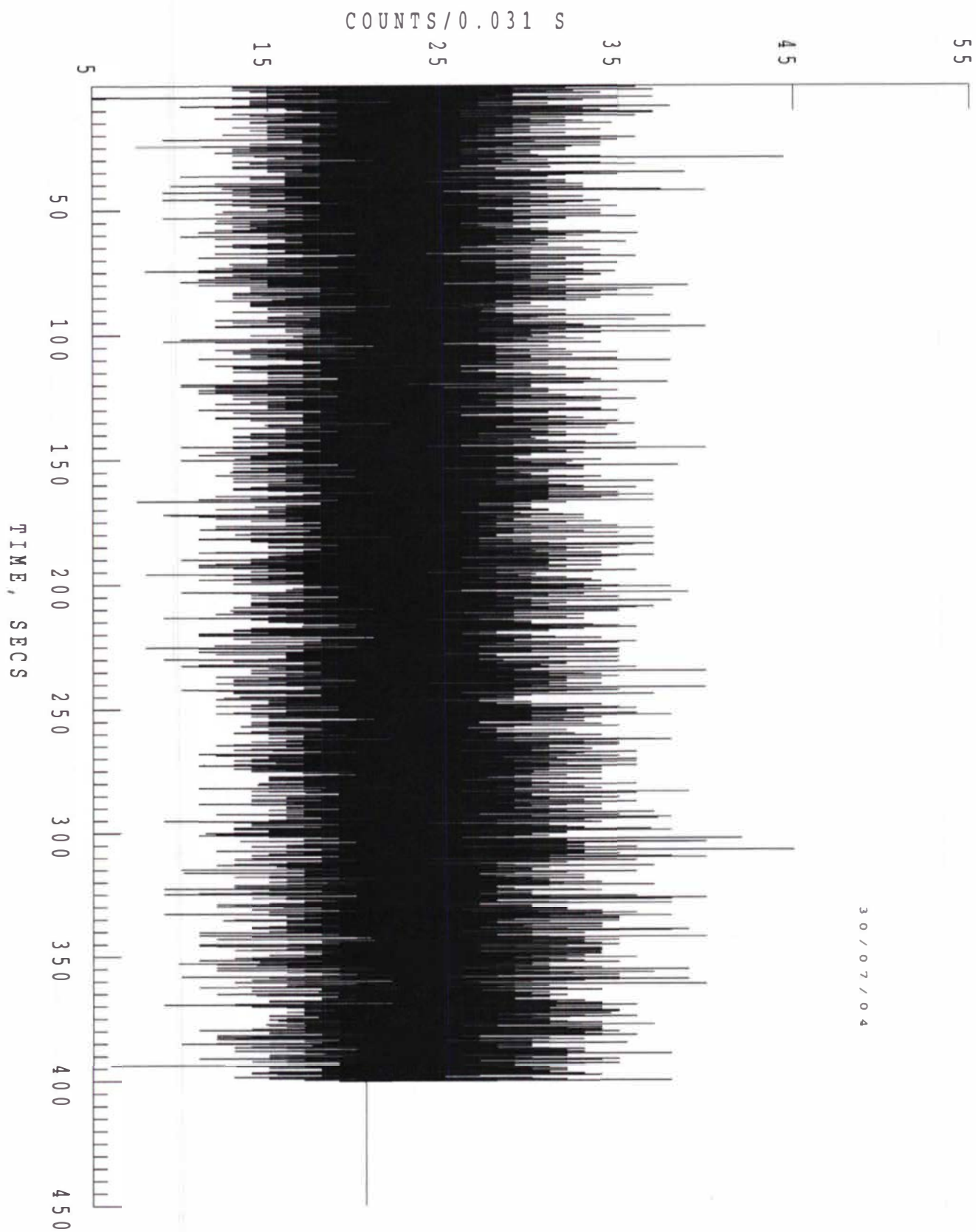
COUNTS/0.250 S

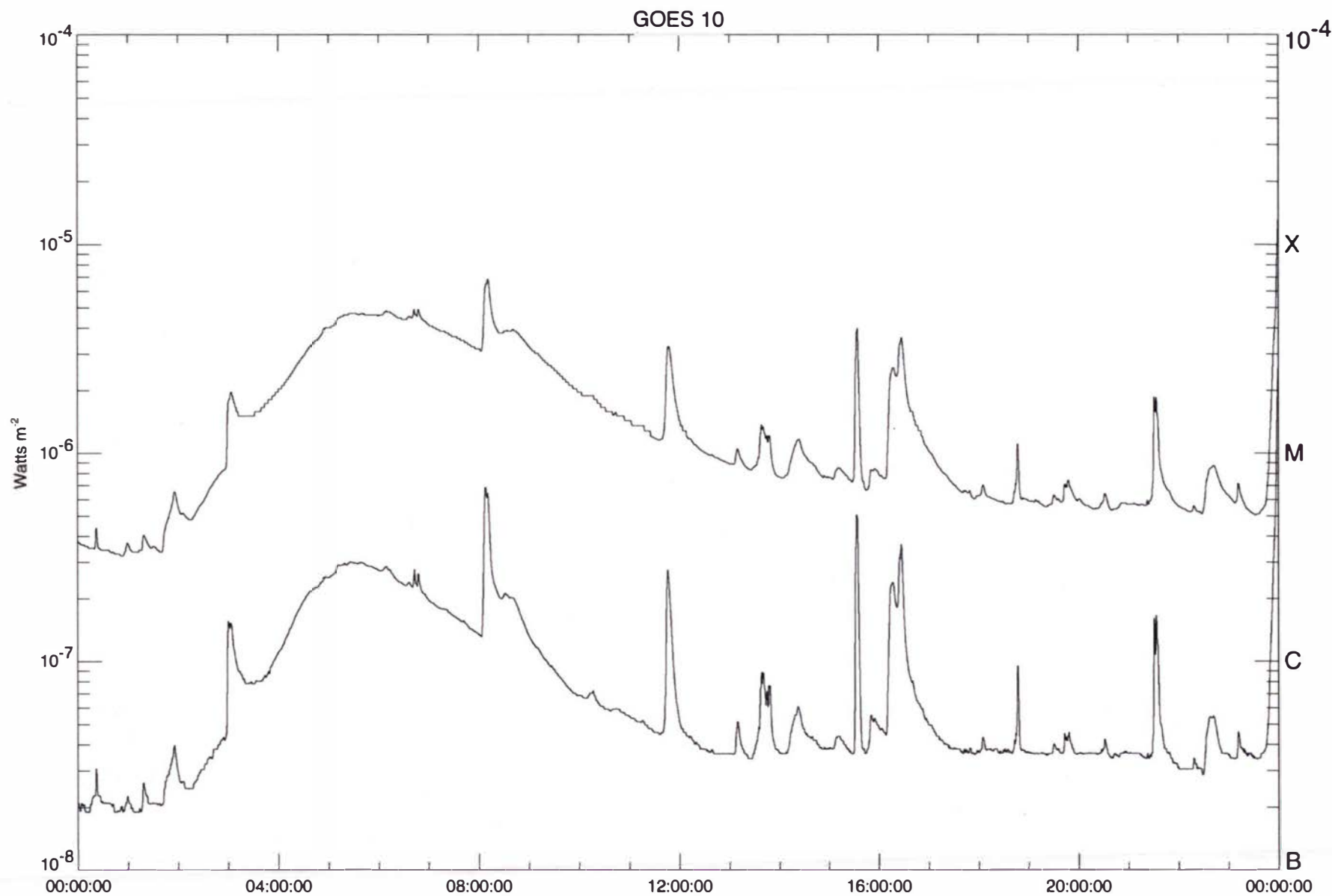


HESSI

28/07/04 24807.000 (HETE2HUS_20040728_25007)

25- 150 keV





Data Start: 04/07/28, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/29, 0828

Sample average = 10

From vxw@capella.gsfc.nasa.gov Wed Jul 28 20:14:49 2004
Date: Wed, 28 Jul 2004 23:15:55 -0400
From: Bacodine <vxw@capella.gsfc.nasa.gov>
To: khurley@sunspot.ssl.berkeley.edu
Subject: GCN/HETE_POSITION

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Thu 29 Jul 04 03:14:39 UT
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 3471, Seq_Num: 1
GRB_DATE: 13215 TJD; 211 DOY; 04/07/29
GRB_TIME: 11671.06 SOD {03:14:31.06} UT
TRIGGER_SOURCE: Trigger on the 25-400 keV band.
GAMMA_RATE: 177 [cnts/s] on a 5.200 [sec] timescale
SC_LONG: 268 [deg East]
SUN_POSTN: 128.73d {+08h 34m 56s} +18.68d {+18d 41' 06"}
MOON_POSTN: 269.55d {+17h 58m 13s} -27.50d {-27d 30' 03"}
MOON_ILLUM: 90 [%]
COMMENTS: No s/c ACS pointing info available yet.
COMMENTS: Probable GRB.

Particles

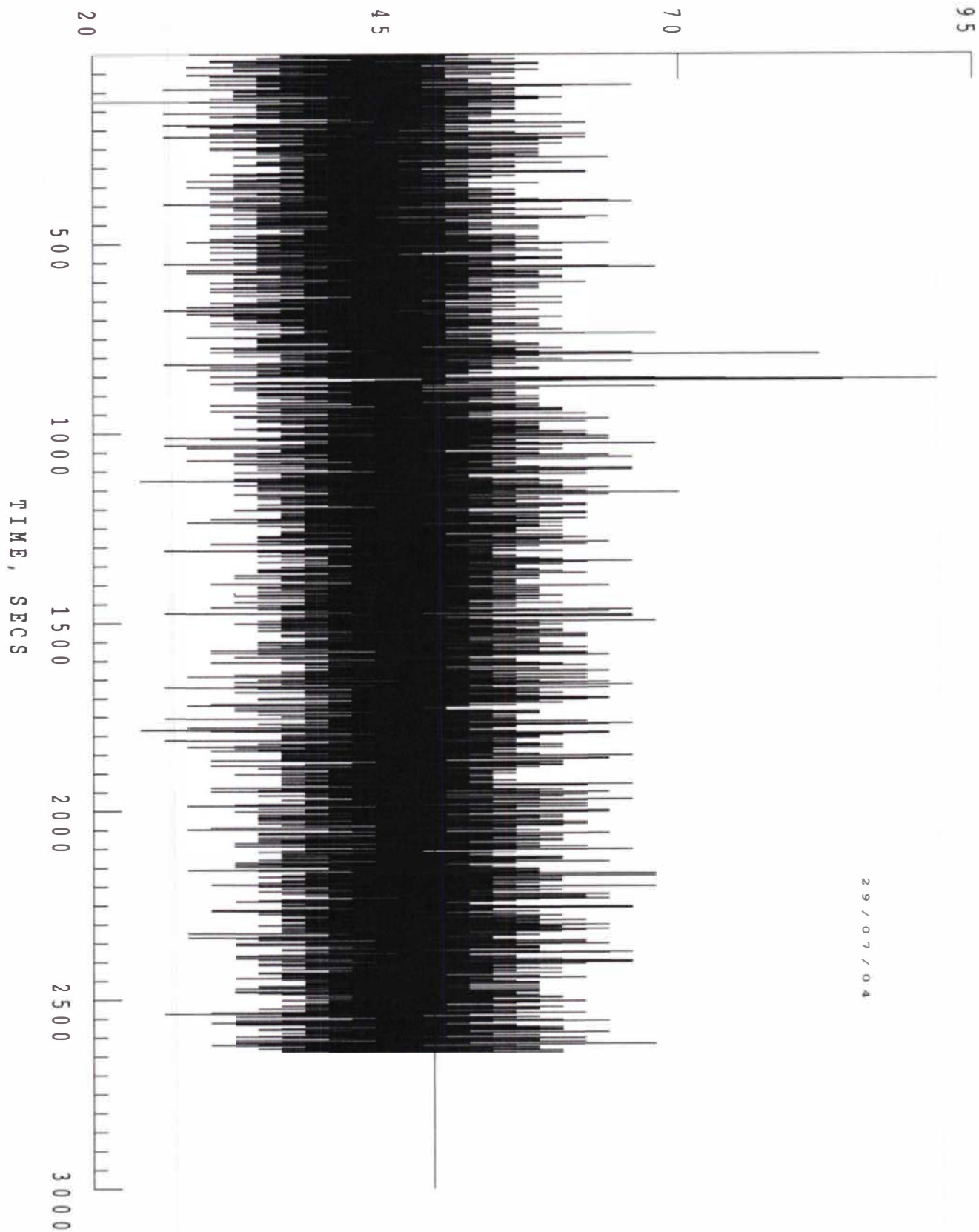
MS01

29/07/04

10342.231

50 - 3000 keV

COUNTS/0.250 S

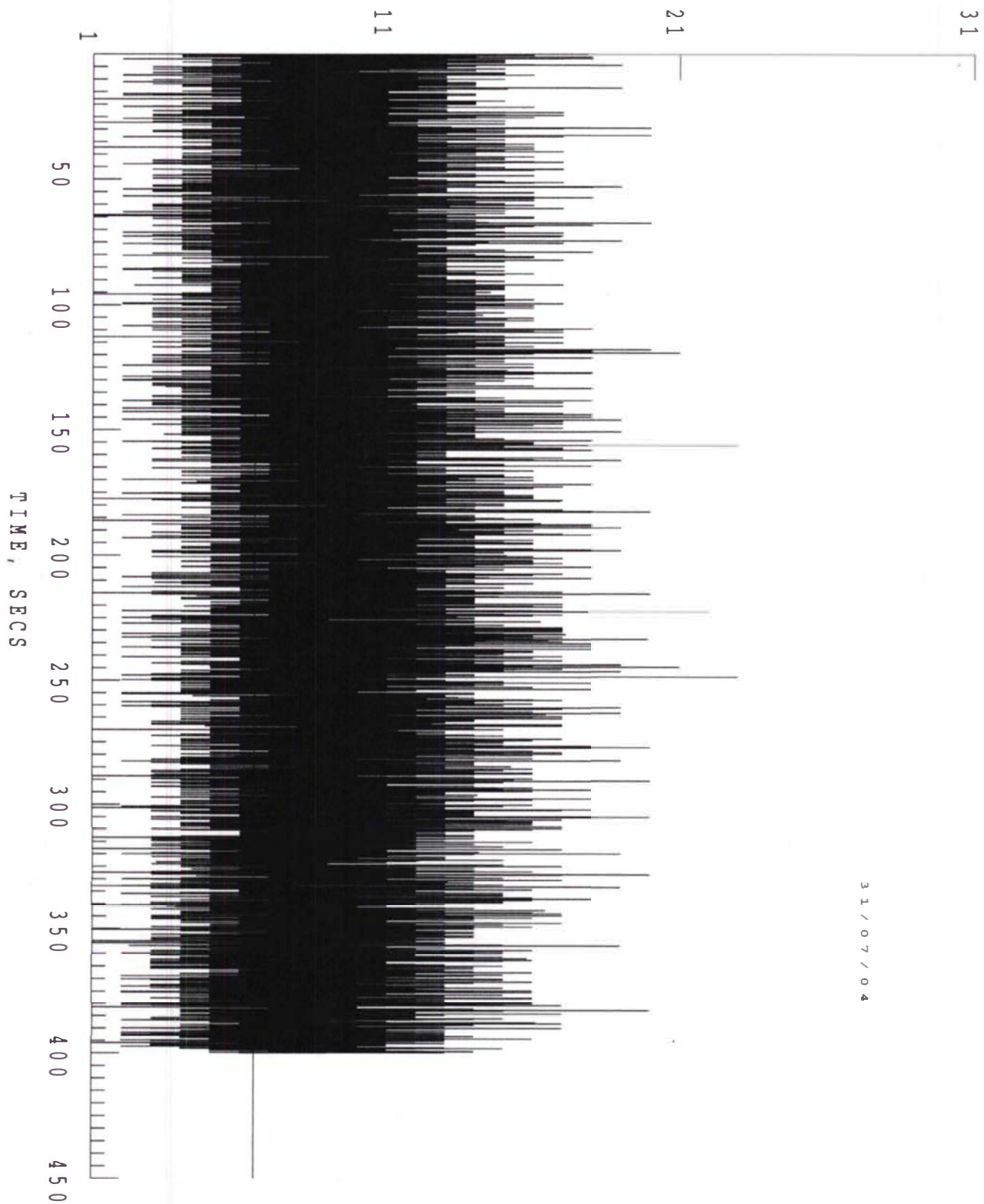


HESSI

29/07/04 11471.000 (GHETE_3471_1_20040729_11671)

25- 150 keV

COUNTS/0.031 S



From owner-hete-science@space.mit.edu Thu Jul 29 00:46:56 2004

Date: Thu, 29 Jul 2004 03:47:24 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: hete-science@space.mit.edu

Subject: [hete-science] BURST 3472, XG on WXM data at 040729_070205

X-CanItPRO-Stream: admin

X-Spam-Score: 0 ()

X-Scanned-By: CanIt (www . canit . ca)

hops: BURST 3472, XG on WXM data, crit 0 at 040729_070205, Long 17W, Phase 0.74

25325

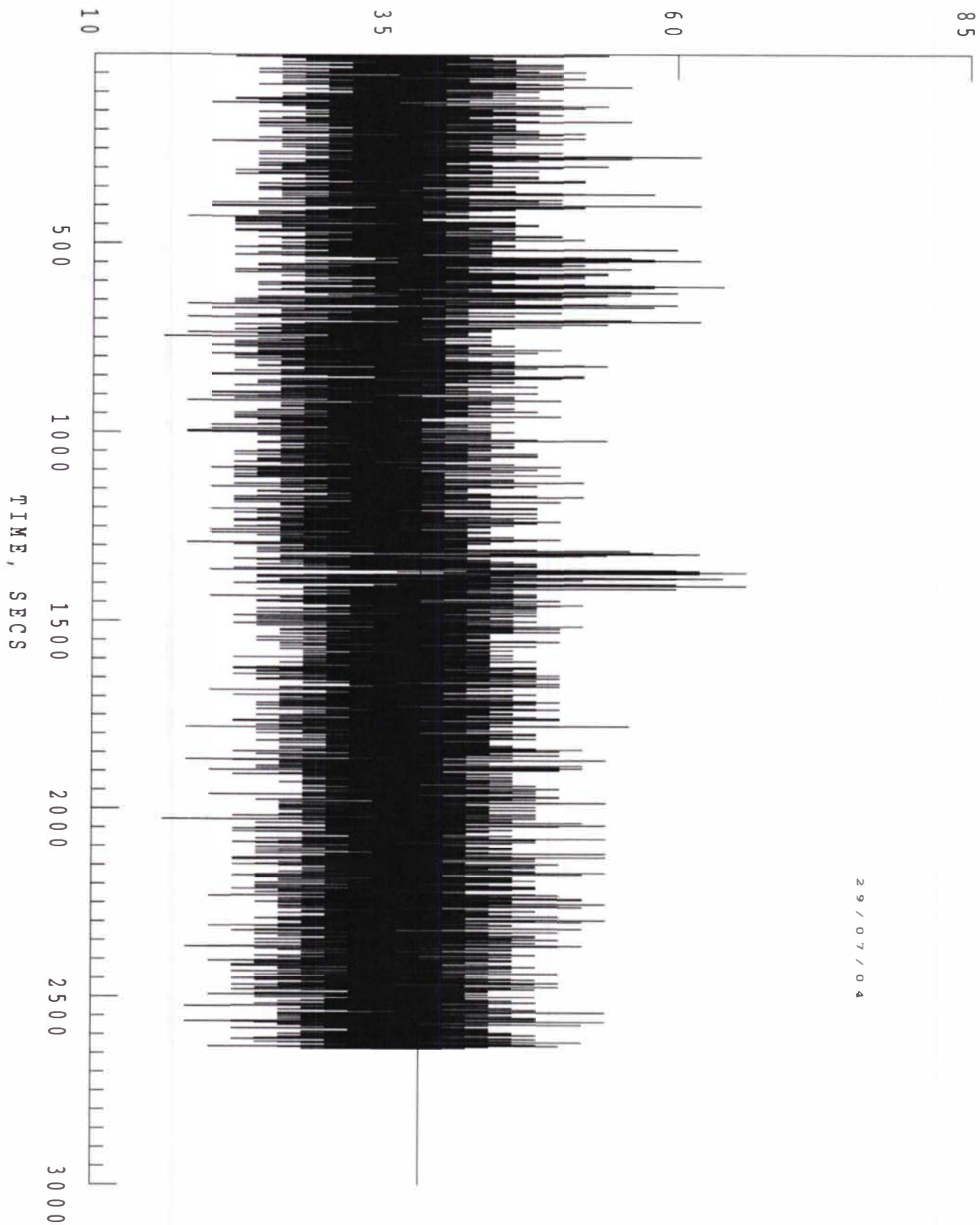
MS01

29/07/04

24021.974

50 - 3000 keV

COUNTS/0.250 S

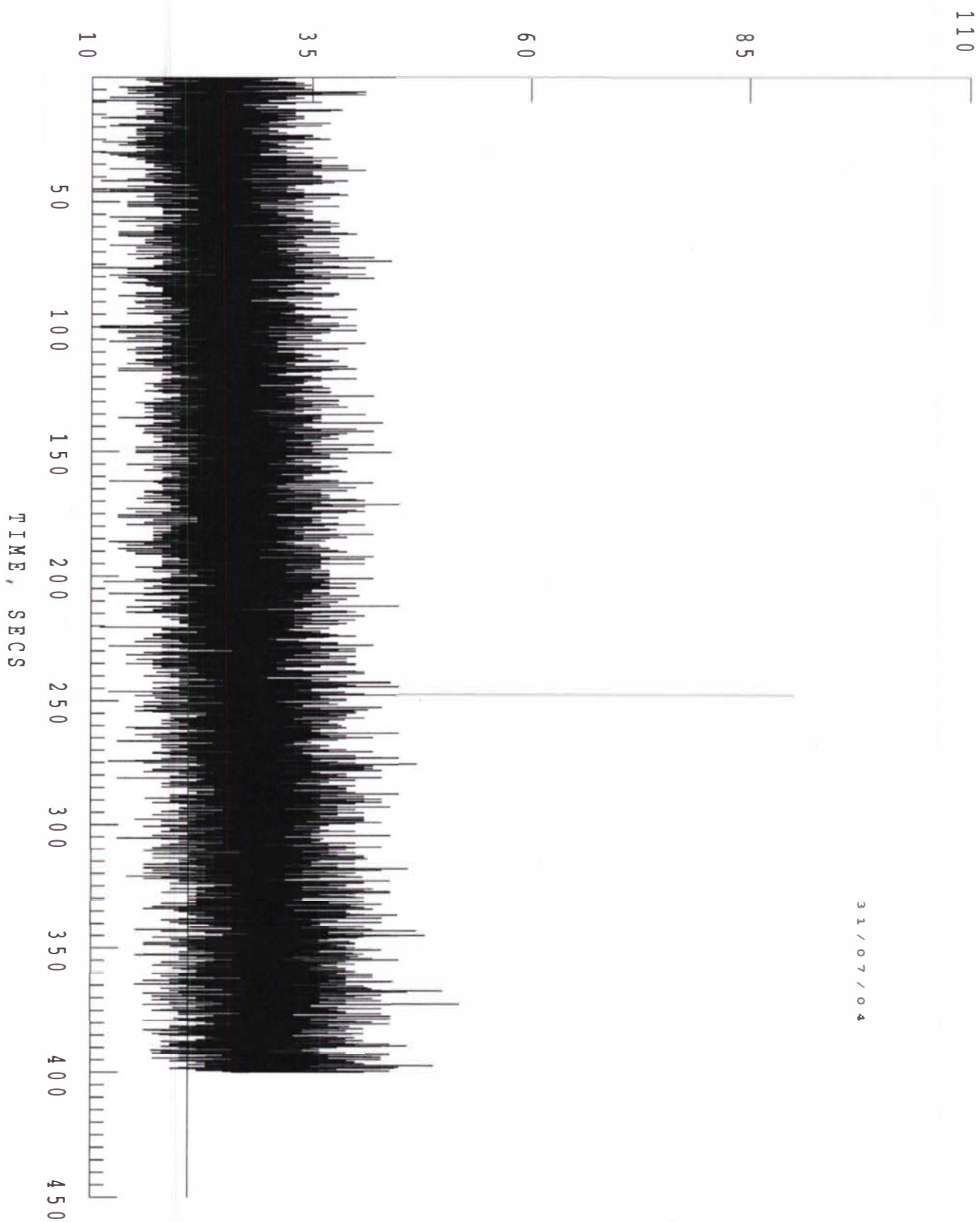


HESSI

29/07/04 25145.000 (HETE2HUS_20040729_25345)

25- 150 keV

COUNTS/0.031 S



From hops@space.mit.edu Thu Jul 29 05:22:35 2004
Date: Thu, 29 Jul 2004 08:23:46 -0400 (EDT)
From: HETE Operator <hops@space.mit.edu>
To: khurley@sunspot.ssl.berkeley.edu
Subject: Trigger Notice to IPN

TITLE: GCN/HETE BURST POSITION NOTICE
NOTICE_DATE: Thu Jul 29 12:22:15 GMT 2004
NOTICE_TYPE: HETE S/C Alert
TRIGGER_NUM: 9999, Seq_Num: 1
GRB_DATE: 13215 TJD; 211 DOY; 04/07/29
GRB_TIME: 42739.00 SOD {11:52:19.00} 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 SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (GHETE_9999_1_20040729_42739)

BEG TIME: 29/07/04 DOY 211 Julian 2453216.99250 UT = 11.820 11:49:12 (42552.000 secs) [sct = 0019 9e00 50fc 1dea]
 END TIME: 29/07/04 DOY 211 Julian 2453216.99708 UT = 11.930 11:55:48 (42948.000 secs) [sct = 0019 9e00 6896 9a3d]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

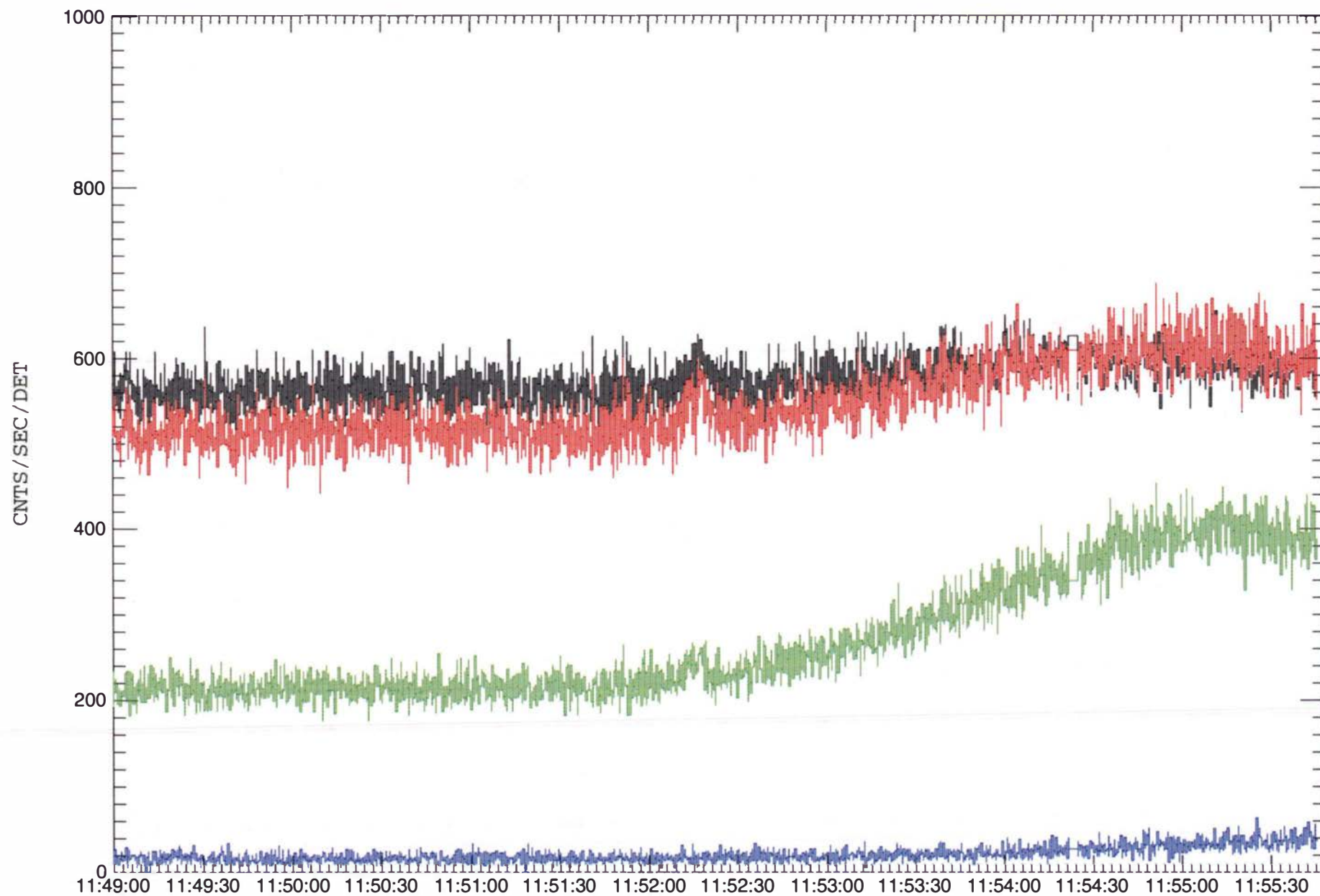
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0

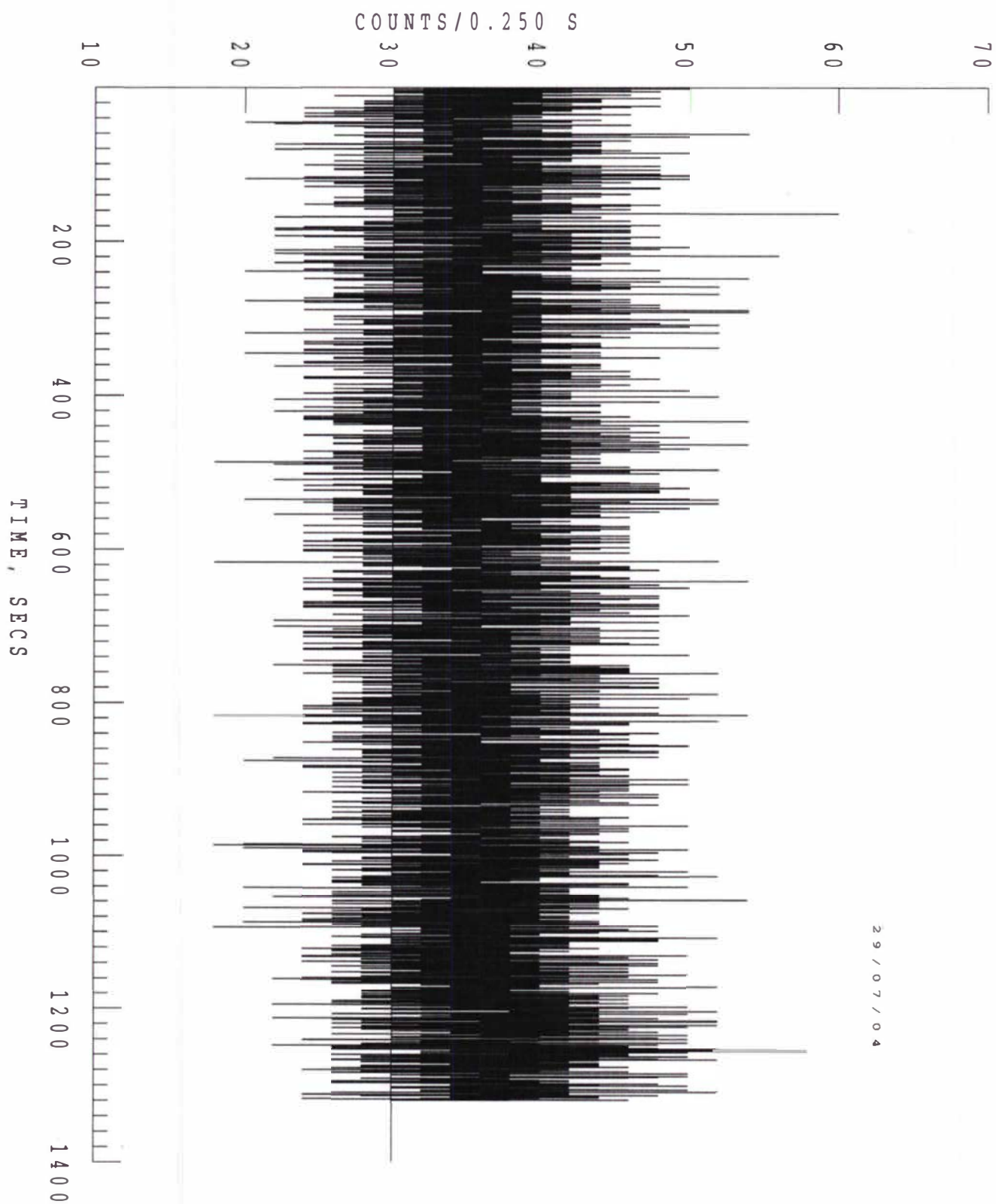


MS01

29/07/04

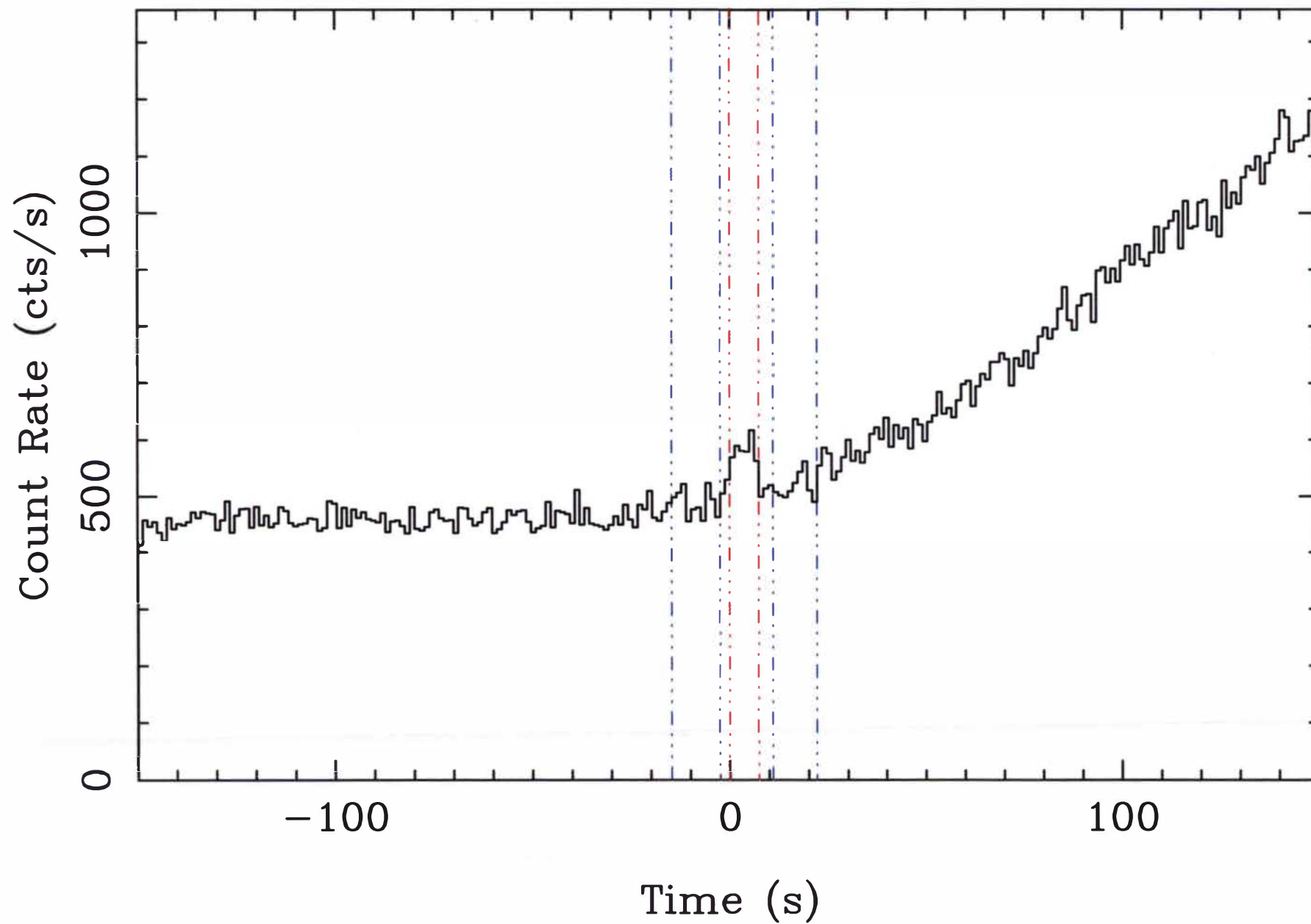
41421.653

50 - 3000 keV



FREGATE Band C, 1.2s Resolution Data

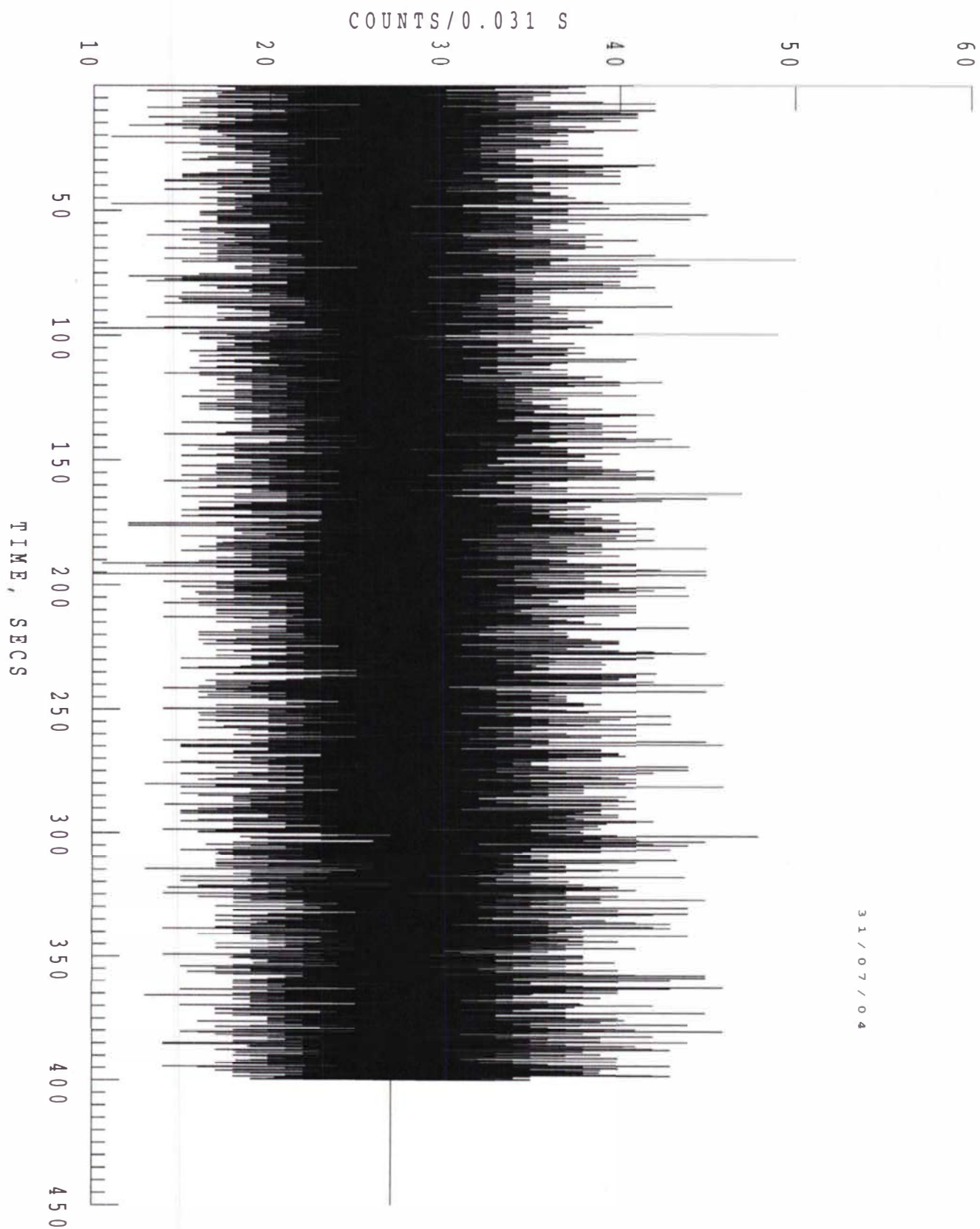
Time Since UTC = 20040729_115219.005338



HESSI

29/07/04 42539.000 (GHETE_9999_1_20040729_42739)

25- 150 keV



KONUS2

29/07/04

86159.361

50 - 200 keV

23:55:59

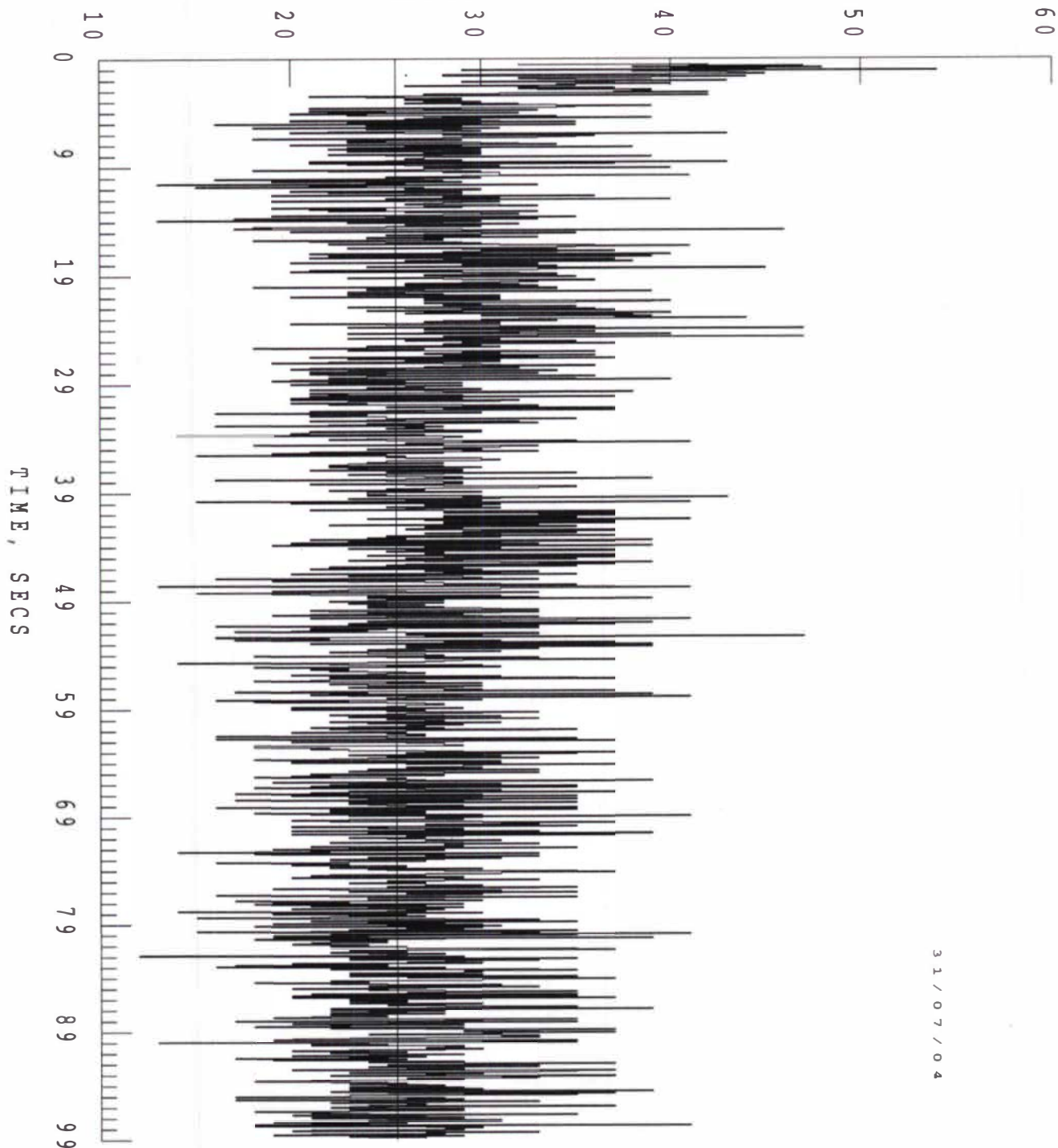
Solar ?

Not in GOES

Not in either

Konus list

COUNTS/0.064 S



KONUS HRES 20040729 86159

TRIGGER TIME: 29/07/04 DOY 211 Julian 2453217.49721 UT = 23.933 23:55:59 (86159.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

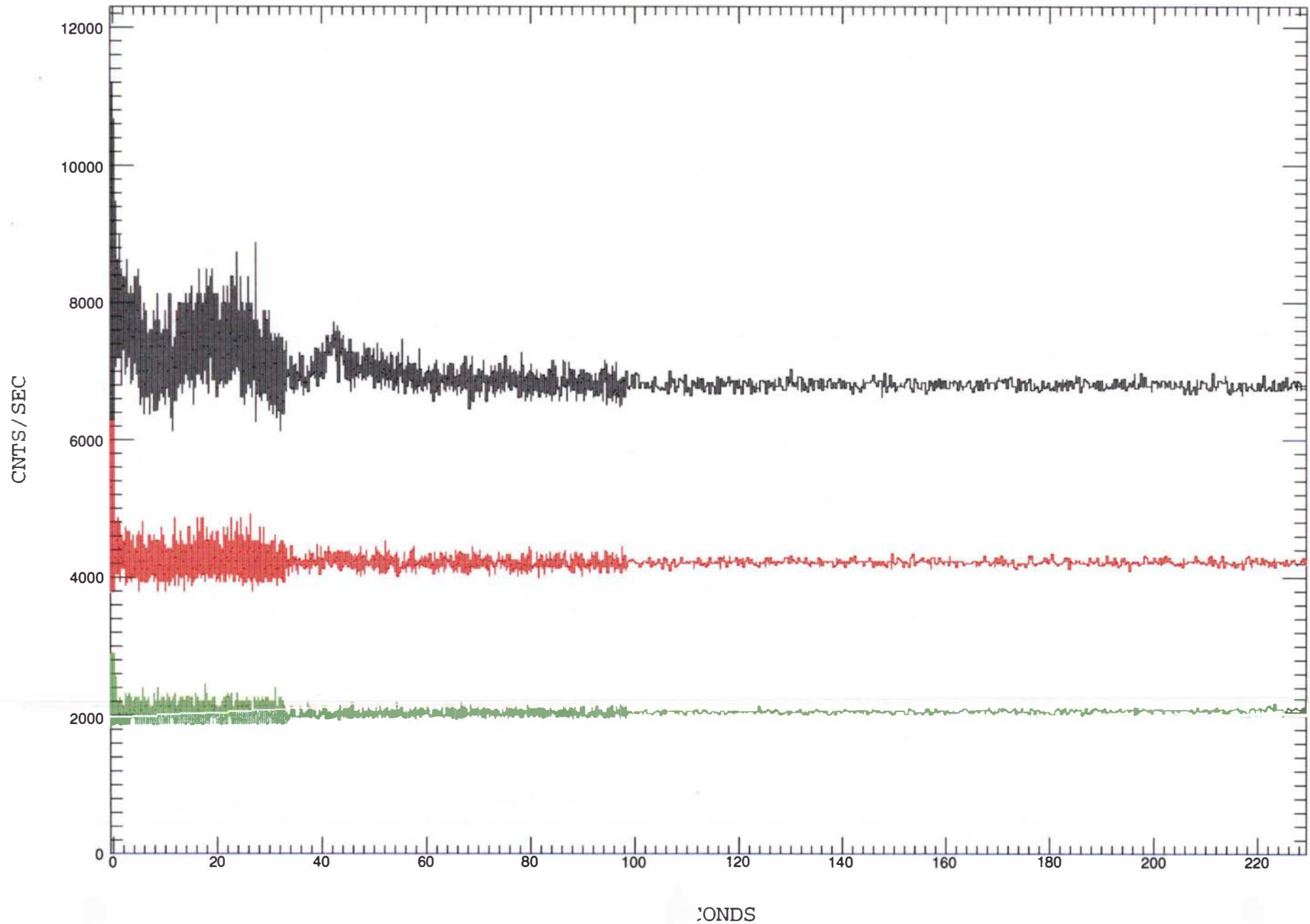
Chan 4 : [> 10 MeV]

Channel 1 + 5700

Channel 2 + 3800

Channel 3 + 1900

Channel 4 + 0



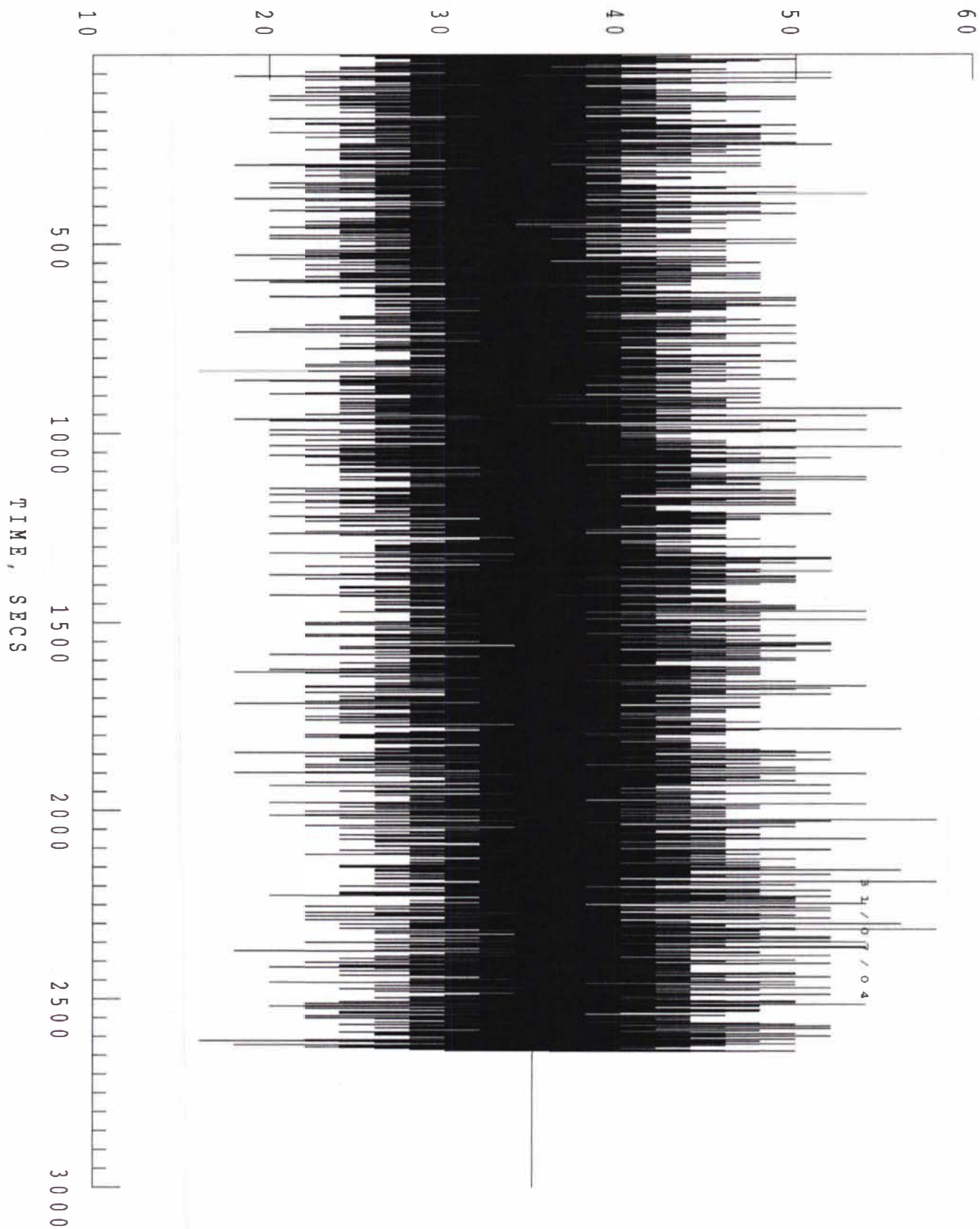
MS01

29/07/04

84801.106

50 - 3000 keV

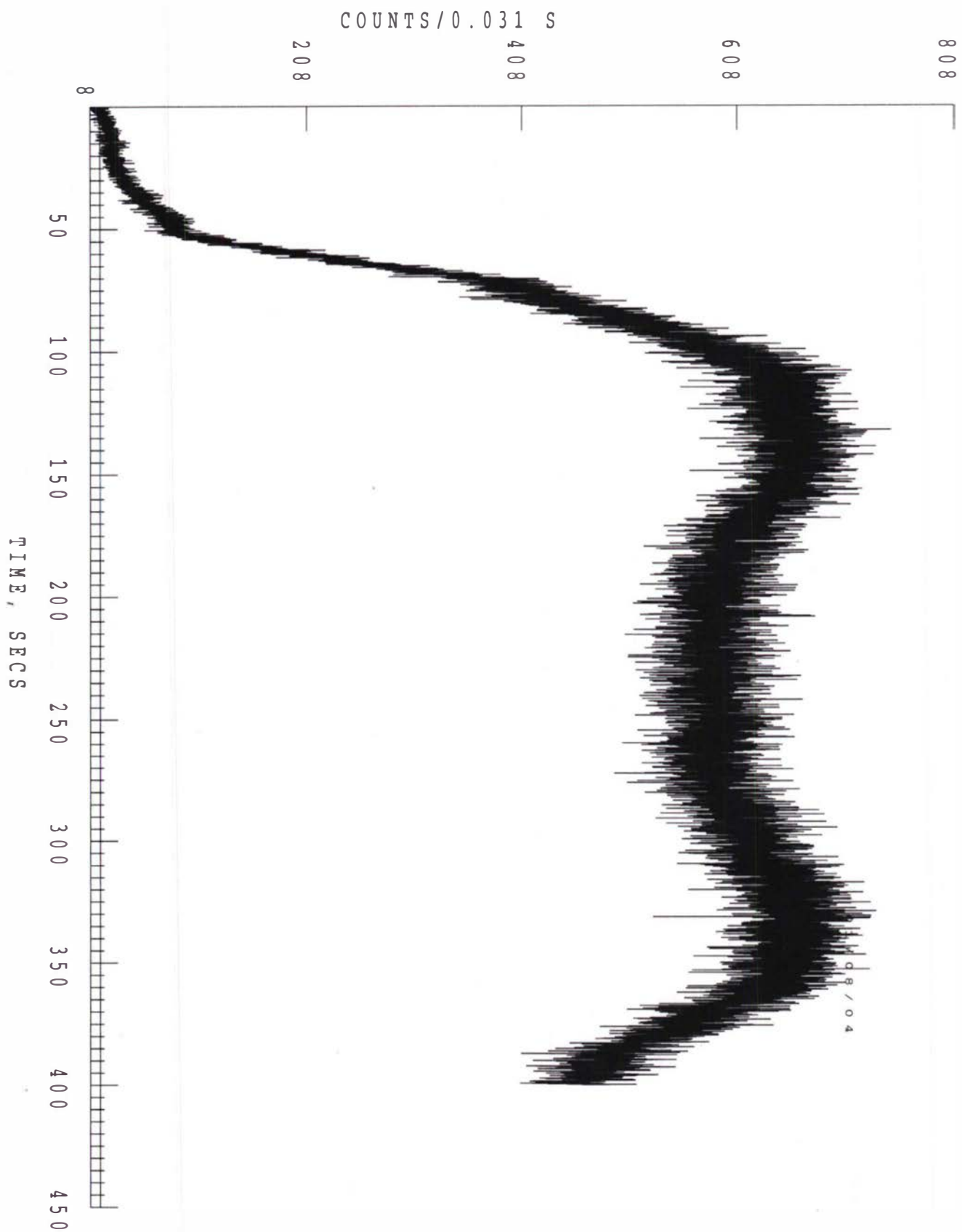
COUNTS/0.250 S



HESSI

29/07/04 85959.000 (KONUS2_20040729_86159)

25- 150 keV



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS2_20040729_86159)

BEG TIME: 29/07/04 DOY 211 Julian 2453217.49500 UT = 23.880 23:52:48 (85968.000 secs) [sct = 0019 9e0a 6cc8 3f4d]
 END TIME: 29/07/04 DOY 211 Julian 2453217.49958 UT = 23.990 23:59:24 (86364.000 secs) [sct = 0019 9e0a 8462 bba0]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=77]

Chan 3:[E5=20 E6=510]

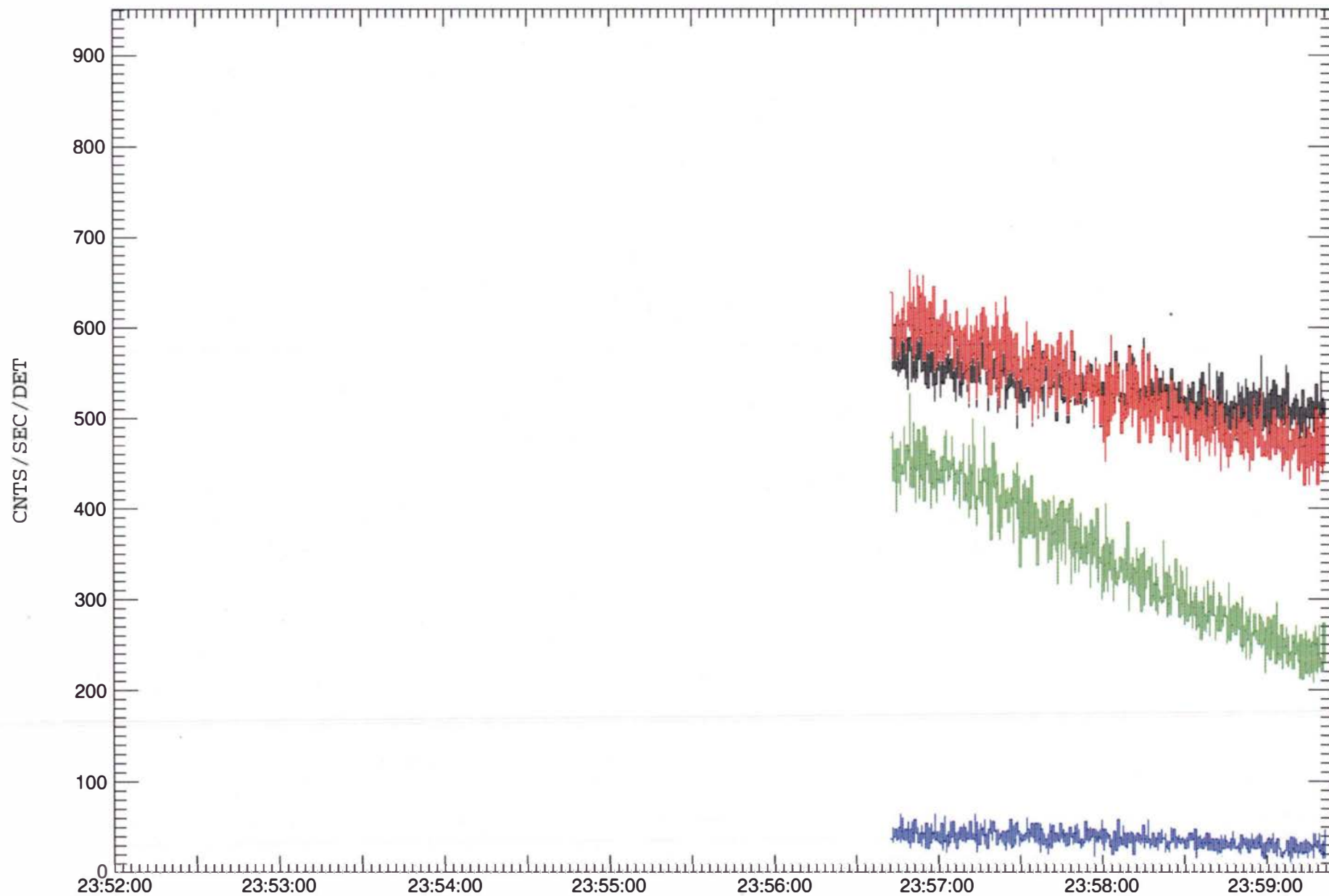
Chan 4:[E6=510 ->]

Channel 1 + 300

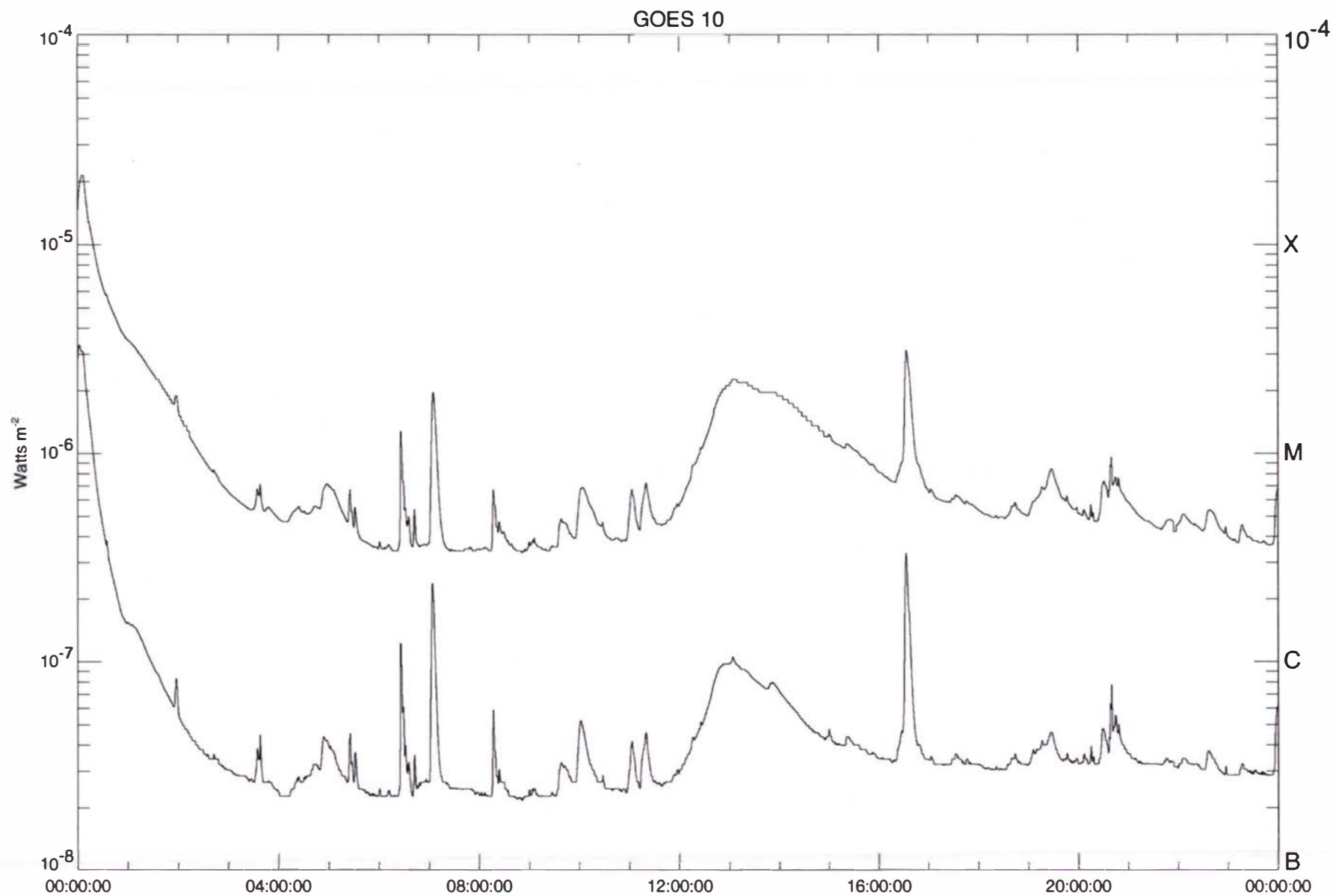
Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT



Data Start: 04/07/29, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Background not subtracted

Plot created: 04/07/30, 0828

Sample average = 10

From gcncirc@nlheawww.gsfc.nasa.gov Thu Jul 29 20:16:02 2004
From: GCN Circulars <gcncirc@nlheawww.gsfc.nasa.gov>
Subject: GRB 040730: a long GRB detected with INTEGRAL
From: khurley@sunspot.ssl.berkeley.edu
Date: Thu, 29 Jul 2004 23:17:08 -0400 (EDT)
Affiliation: NASA-GSFC LHEA
Project: GCN (GRB Coordinates Network), Circular Service
Phone: 301-286-3106 (S.Barthelmy's office, -1684 fax)
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit

TITLE: GCN GRB OBSERVATION REPORT
NUMBER: 2634
SUBJECT: GRB 040730: a long GRB detected with INTEGRAL
DATE: 04/07/30 03:17:04 GMT
FROM: Diego Gotz at IASF-CNR <diego@mi.iasf.cnr.it>

D. Gotz, S. Mereghetti (IASF, Milano), N. Mowlavi, M. Beck, J.Borkowski
(ISDC) on behalf of the IBAS Localization Team report:

A 50 s long GRB has been detected with the INTEGRAL Burst Alert System
(IBAS) on July 30 at 02:11:55 UT. The GRB has been detected with
IBIS/ISGRI in the 15-200 keV band (IBAS Alert # 1888)
Its coordinates (J2000) are:

R.A. 15h 53m 16s
Dec. -56deg 27' 03''

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

The preliminary peak flux in the 20-200 keV range is about 0.4
photons/cmsq/s (4E-8 erg/cmsq/s) (1 s integration time).

This message can be cited.

FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (INTEGRAL_20040730_07915)

BEG TIME: 30/07/04 DOY 212 Julian 2453217.59042 UT = 02.170 02:10:12 (07812.000 secs) [sct = 0019 9e0c 5829 d675]
 END TIME: 30/07/04 DOY 212 Julian 2453217.59292 UT = 02.230 02:13:48 (08028.000 secs) [sct = 0019 9e0c 6509 bd2f]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

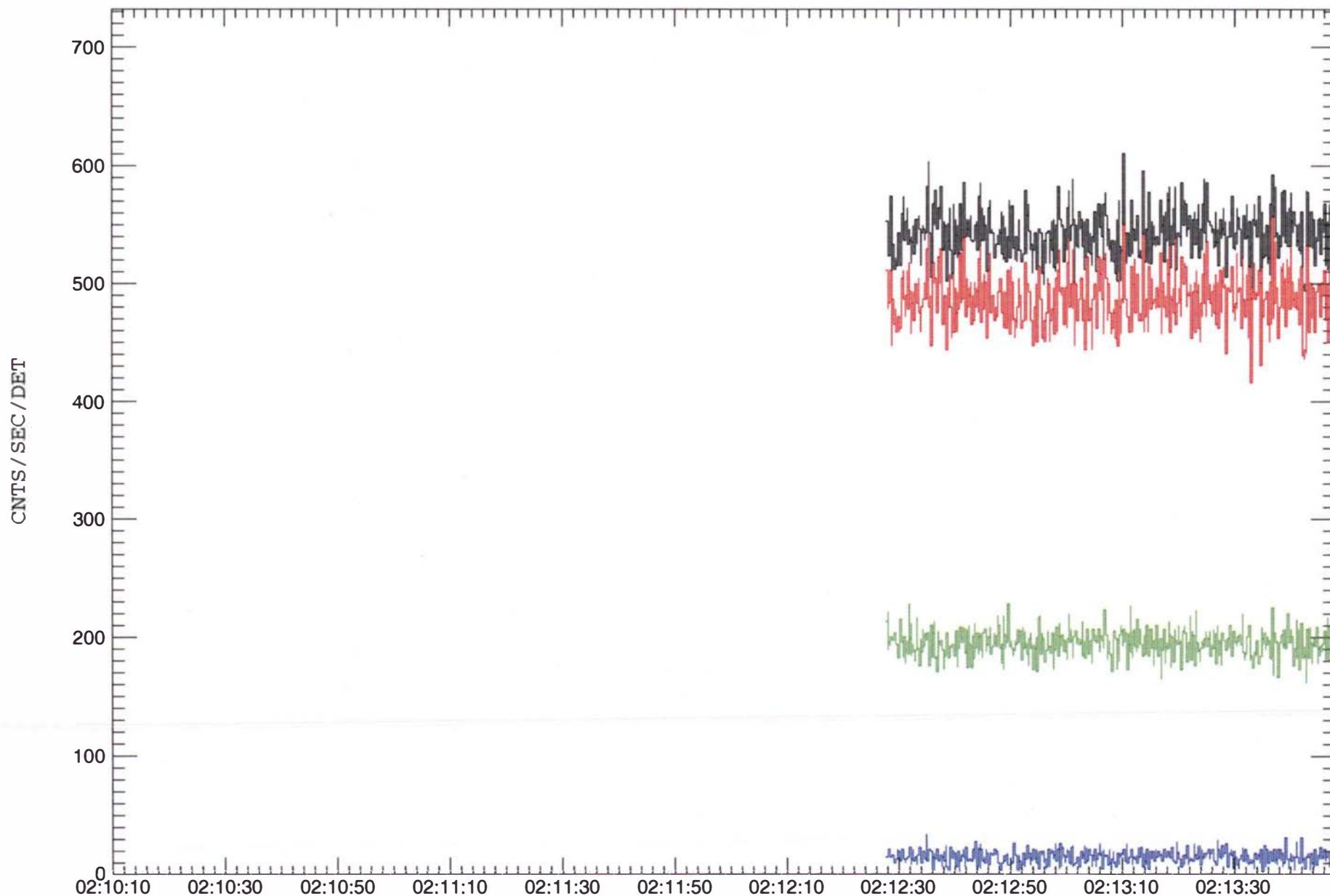
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



RS UT

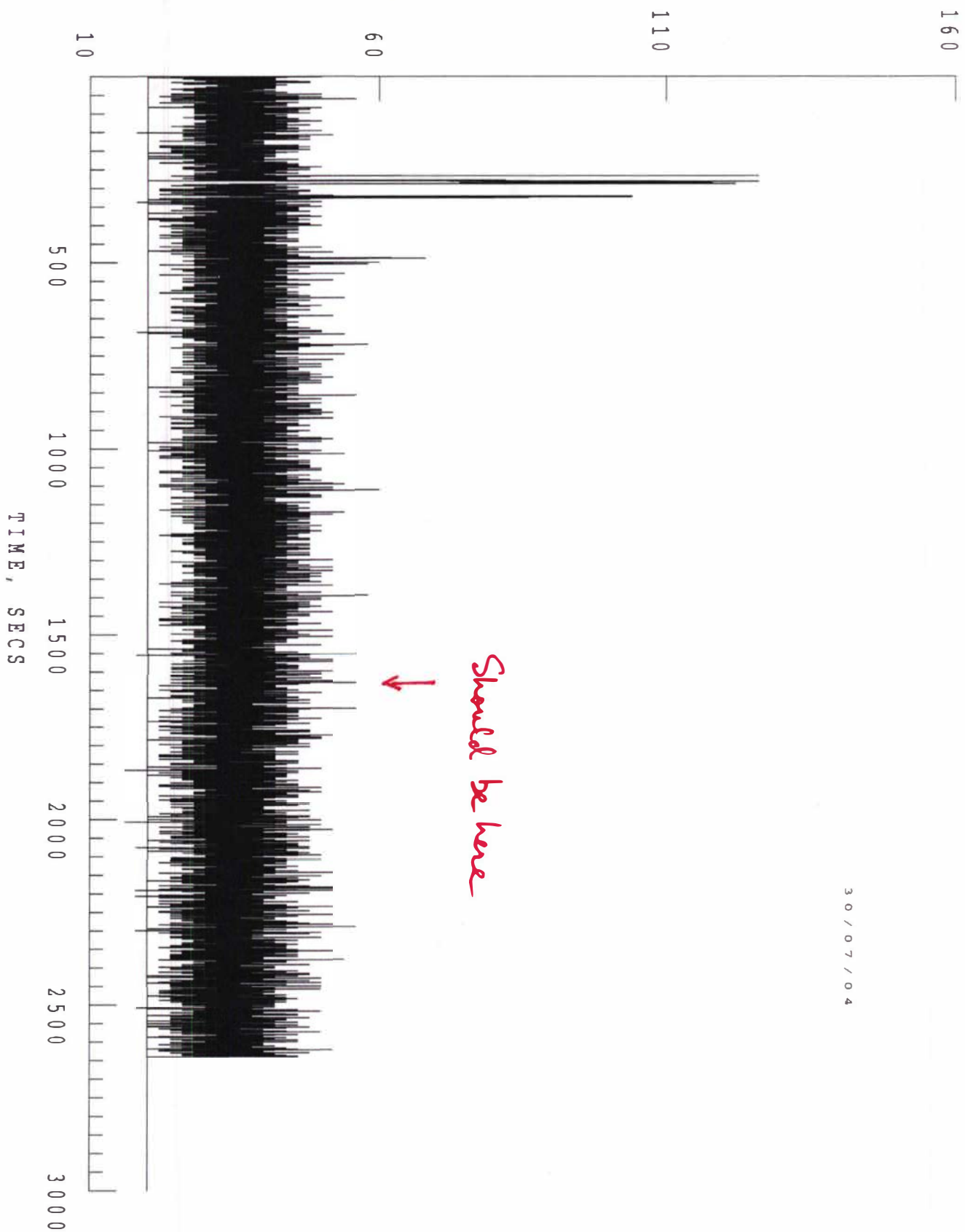
MS01

30/07/04

6560.951

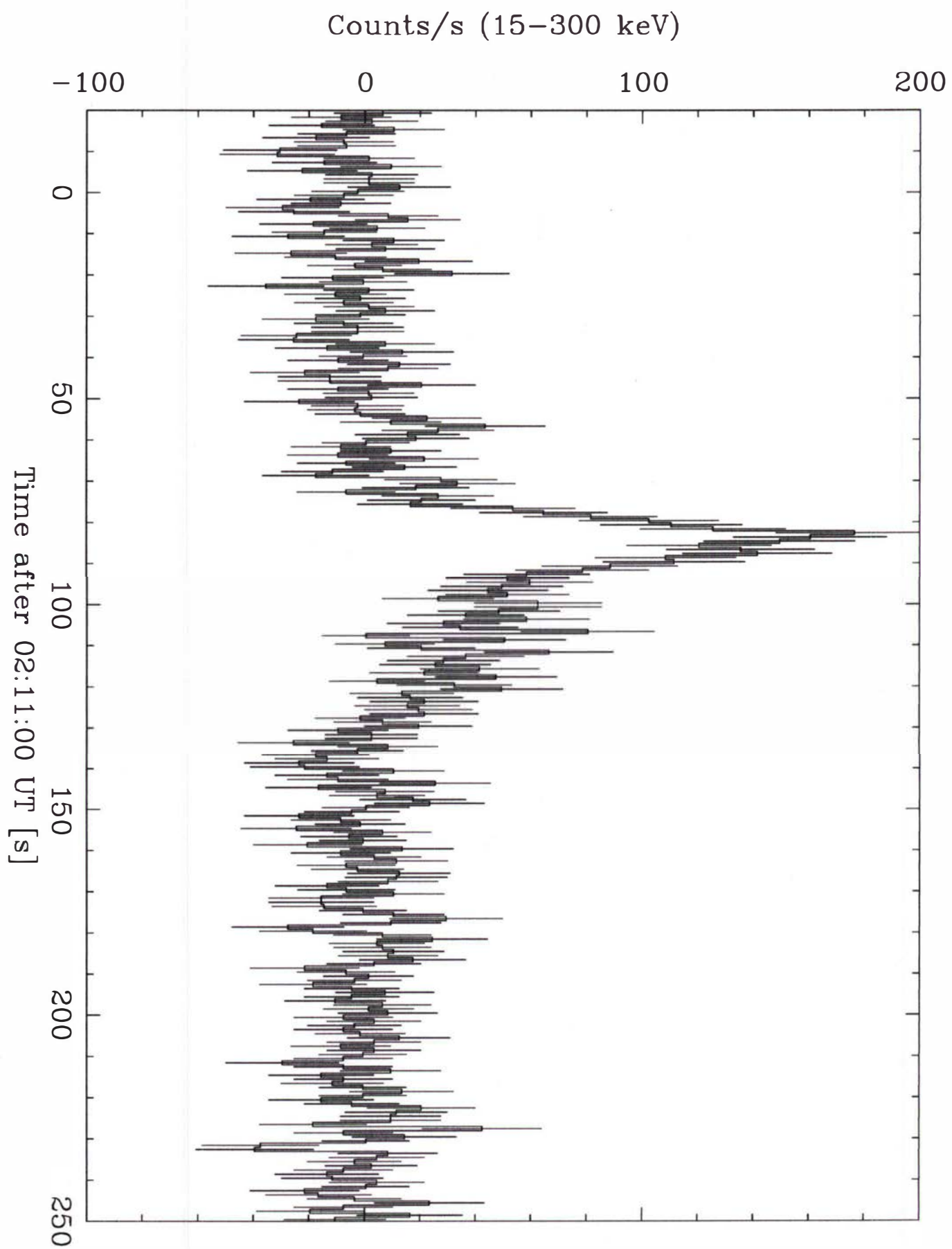
50 - 3000 keV

COUNTS/0.250 S



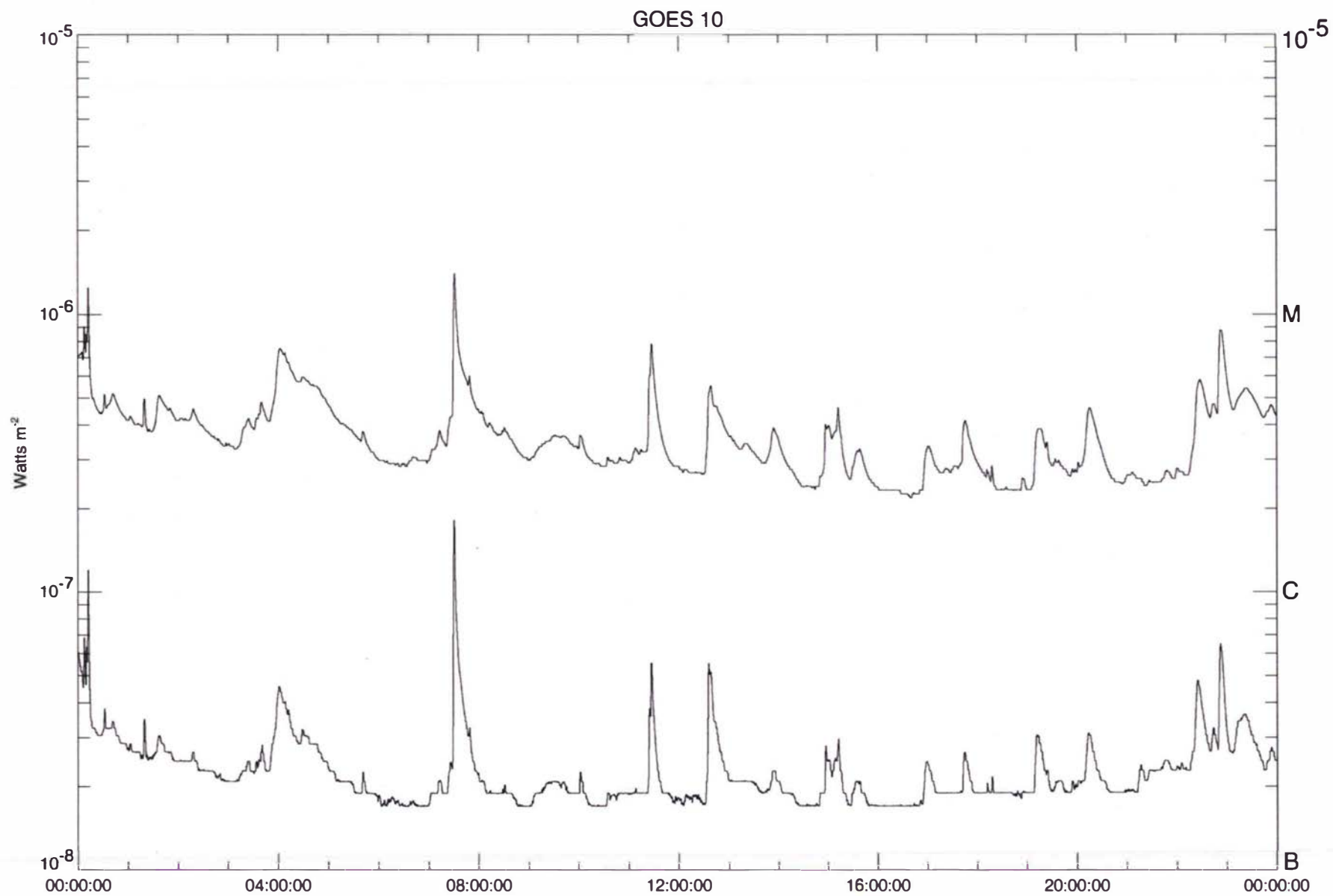
30/07/04

GRB 040730



From williams@sunspot.ssl.berkeley.edu Wed Aug 4 05:59:12 2004
Date: Wed, 4 Aug 2004 06:02:32 -0700 (PDT)
From: williams@ssl.berkeley.edu
To: khurley@sunspot.ssl.berkeley.edu
Subject: No_RHESSI_data_for_INTEGRAL_20040730_07915

HESSI 15 to 200 keV Counts
Created 4-Aug-2004 05:59:06.00
Detectors: 3r 4r 5r 6r 8r 9r
columns: time (sec) counts (summed over detectors)
time_interval = 0.500000
No SAA
No Eclipse
Full time range in non-SAA data gap
No Data Available For This Time Range
Do Not Retry



Data Start: 04/07/30, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Plot created: 04/07/31, 0828

Sample average = 10

Date: Aug 1 '08

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? Need Konus EL

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?
- ☐ 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

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

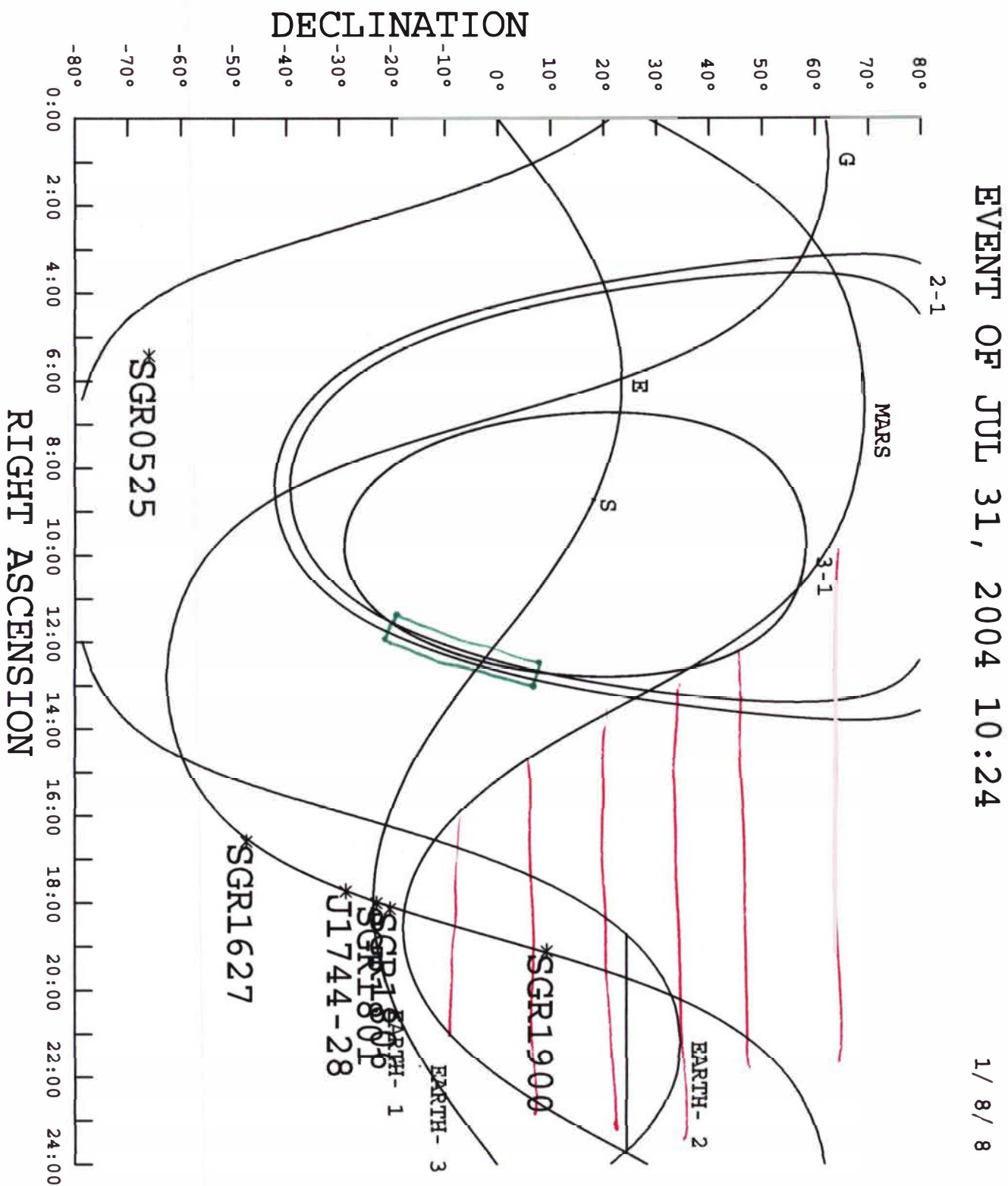
3. For INTEGRAL events

- ☐ 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?

G=GALACTIC EQUATOR

3 MO



MO GE

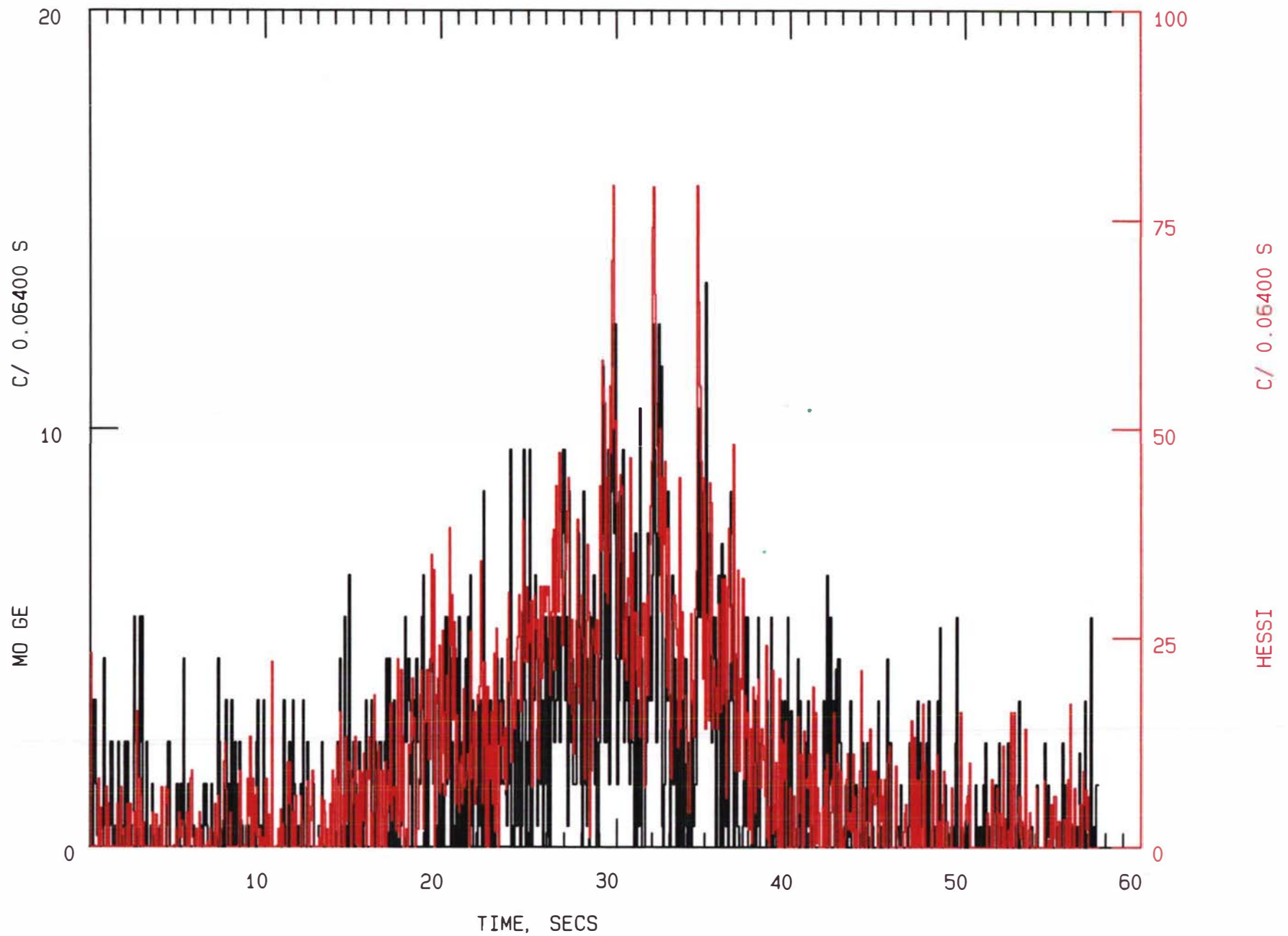
-HESSI

CORRELATION

31/07/04

36504.648

1/ 8/ 8



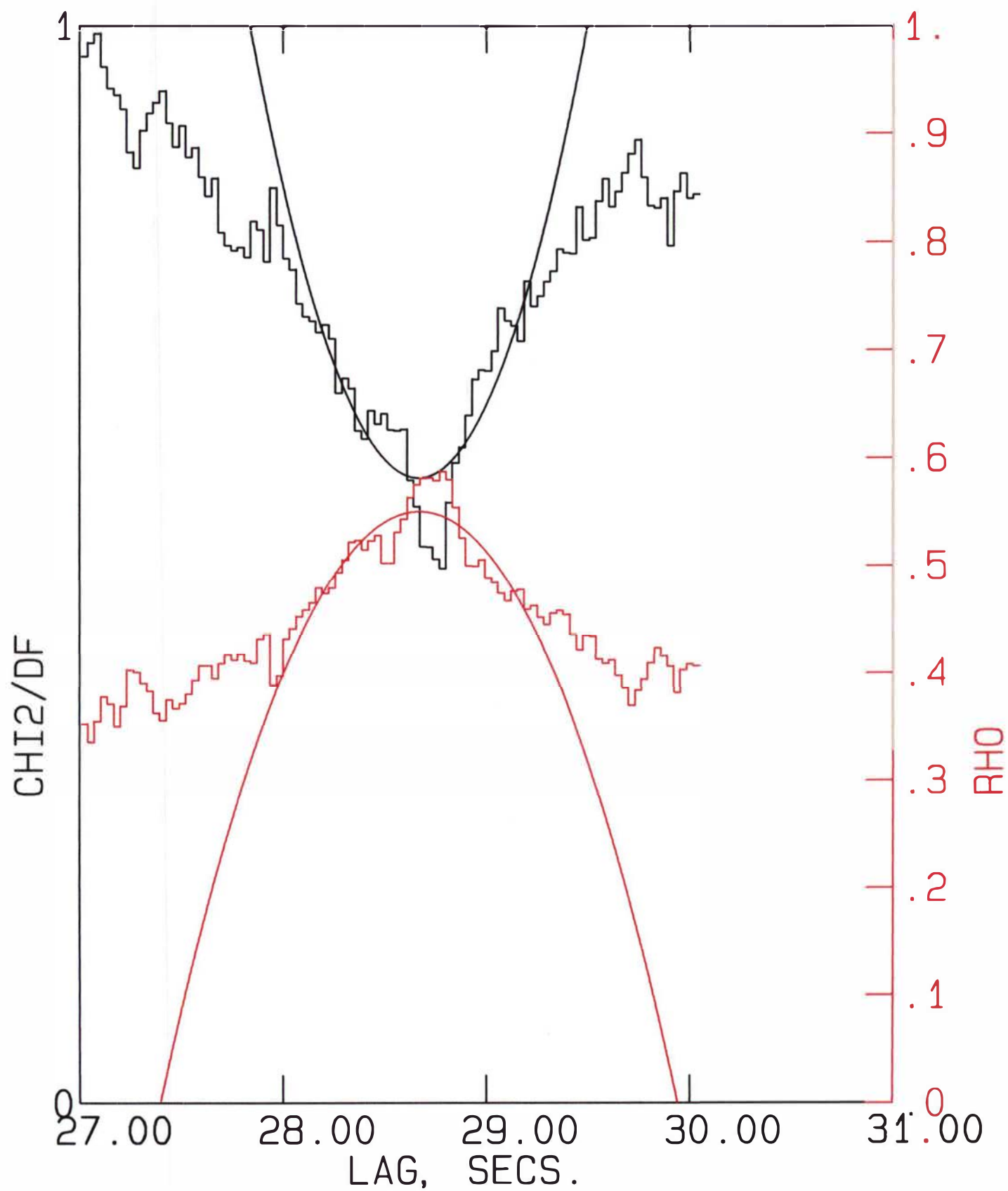
MO GE

-HESSI

CORRELATION

31/07/04

36504.648



KONUS1

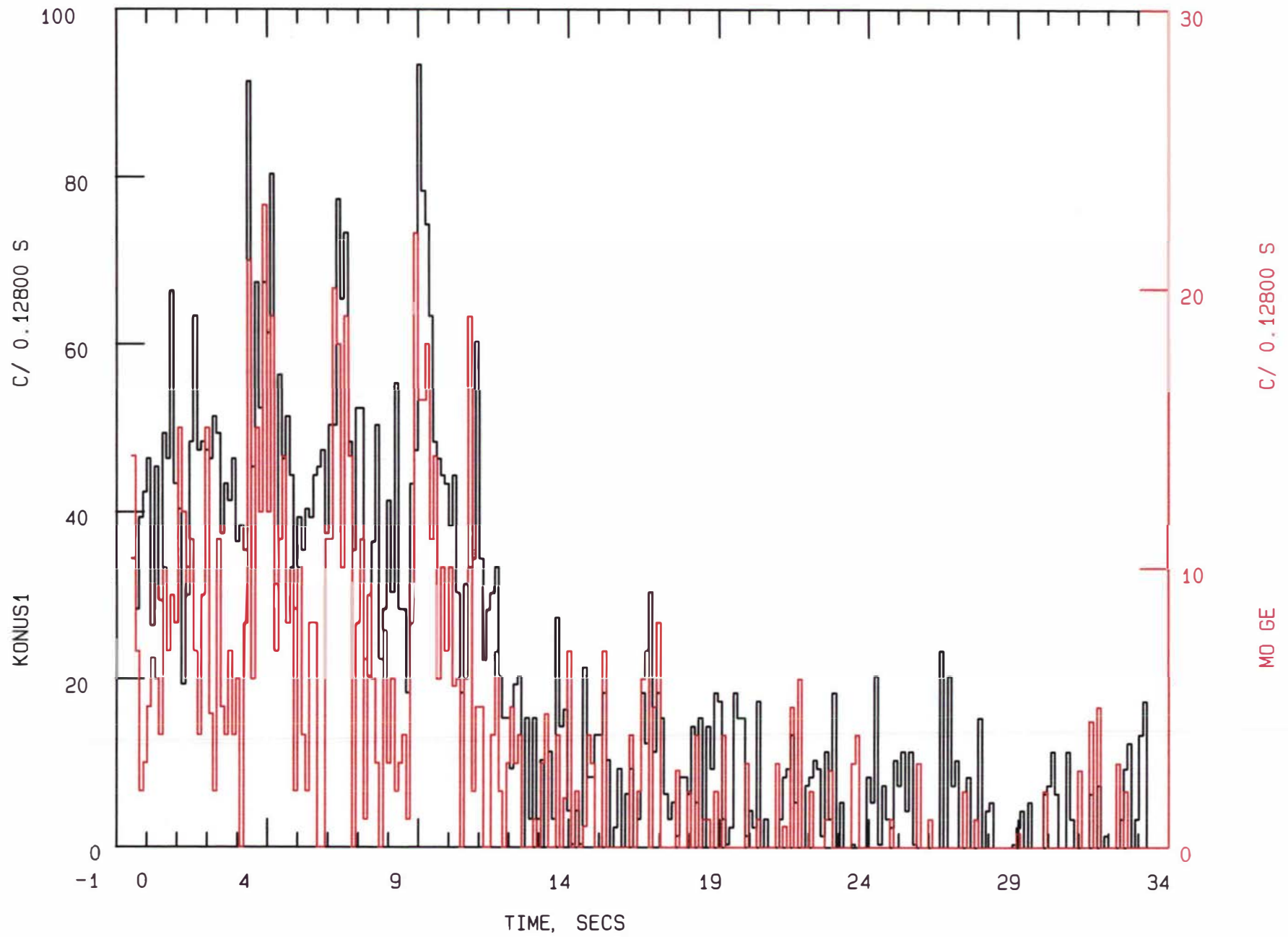
-MO GE

CORRELATION

31/07/04

37473.944

1/ 8/ 8



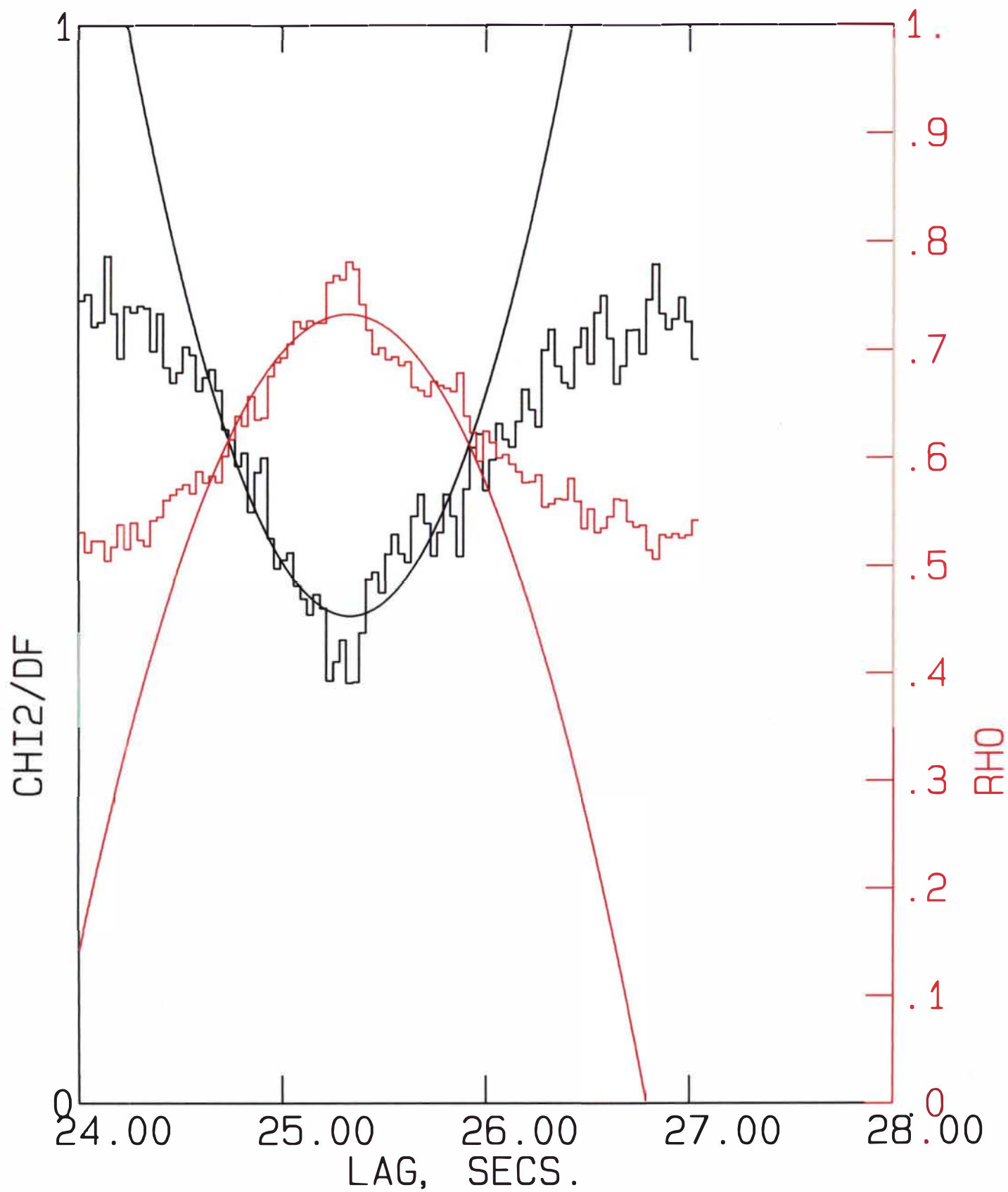
KONUS1

-MO GE

CORRELATION

31/07/04

37473.944



KONUS1

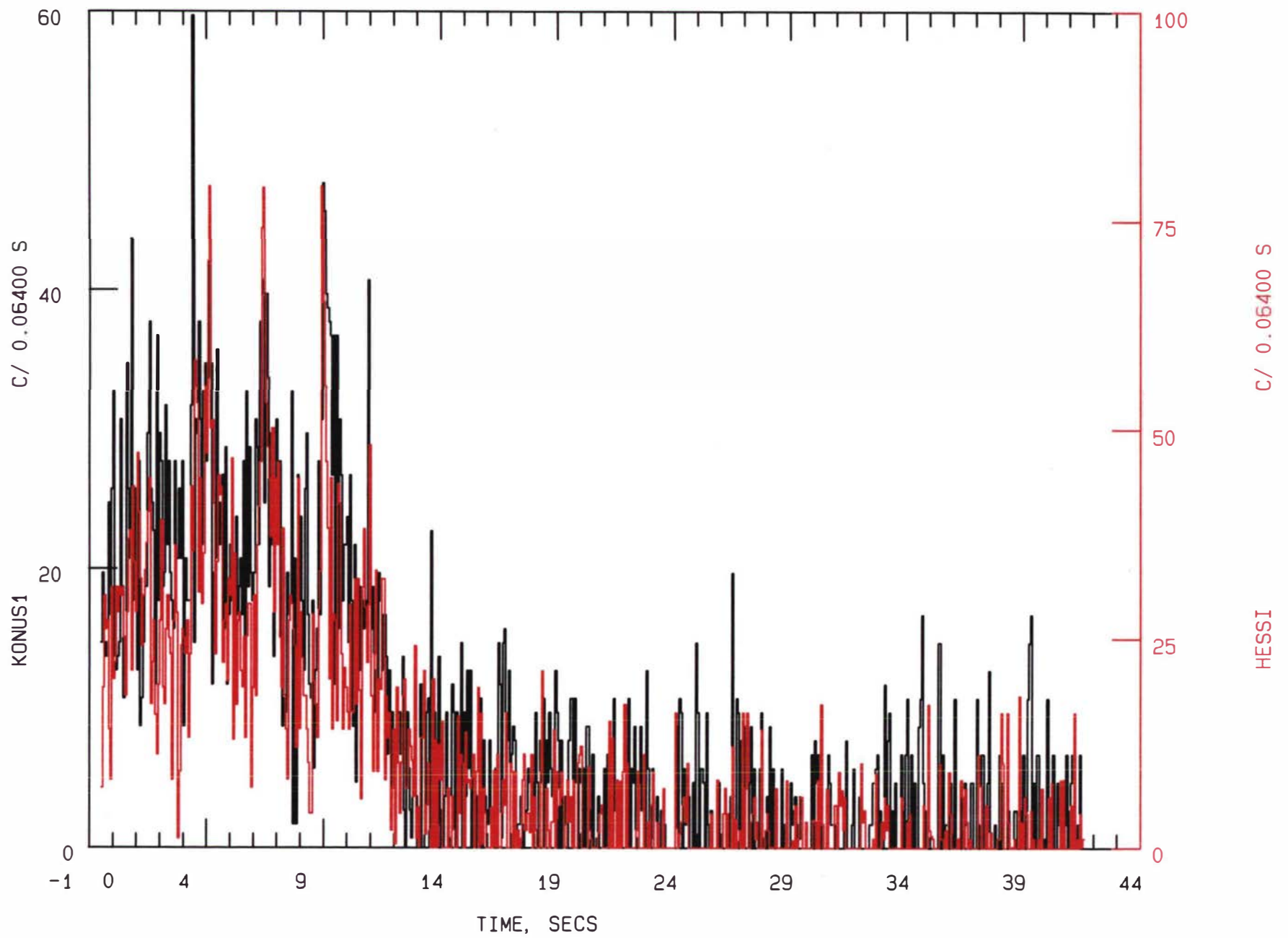
-HESSI

CORRELATION

31/07/04

37473.944

1/ 8/ 8



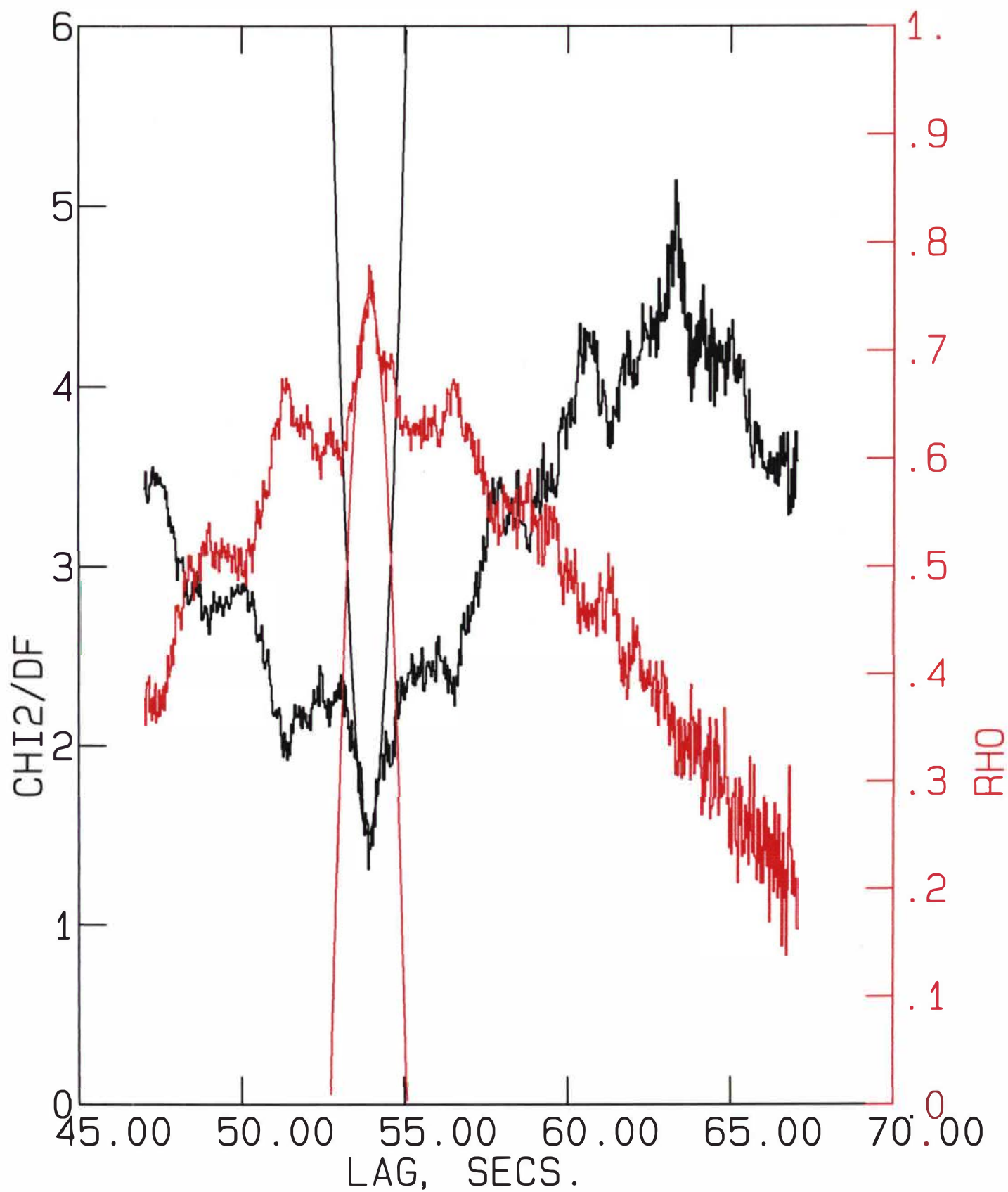
KONUS1

-HESSI

CORRELATION

31/07/04

37473.944



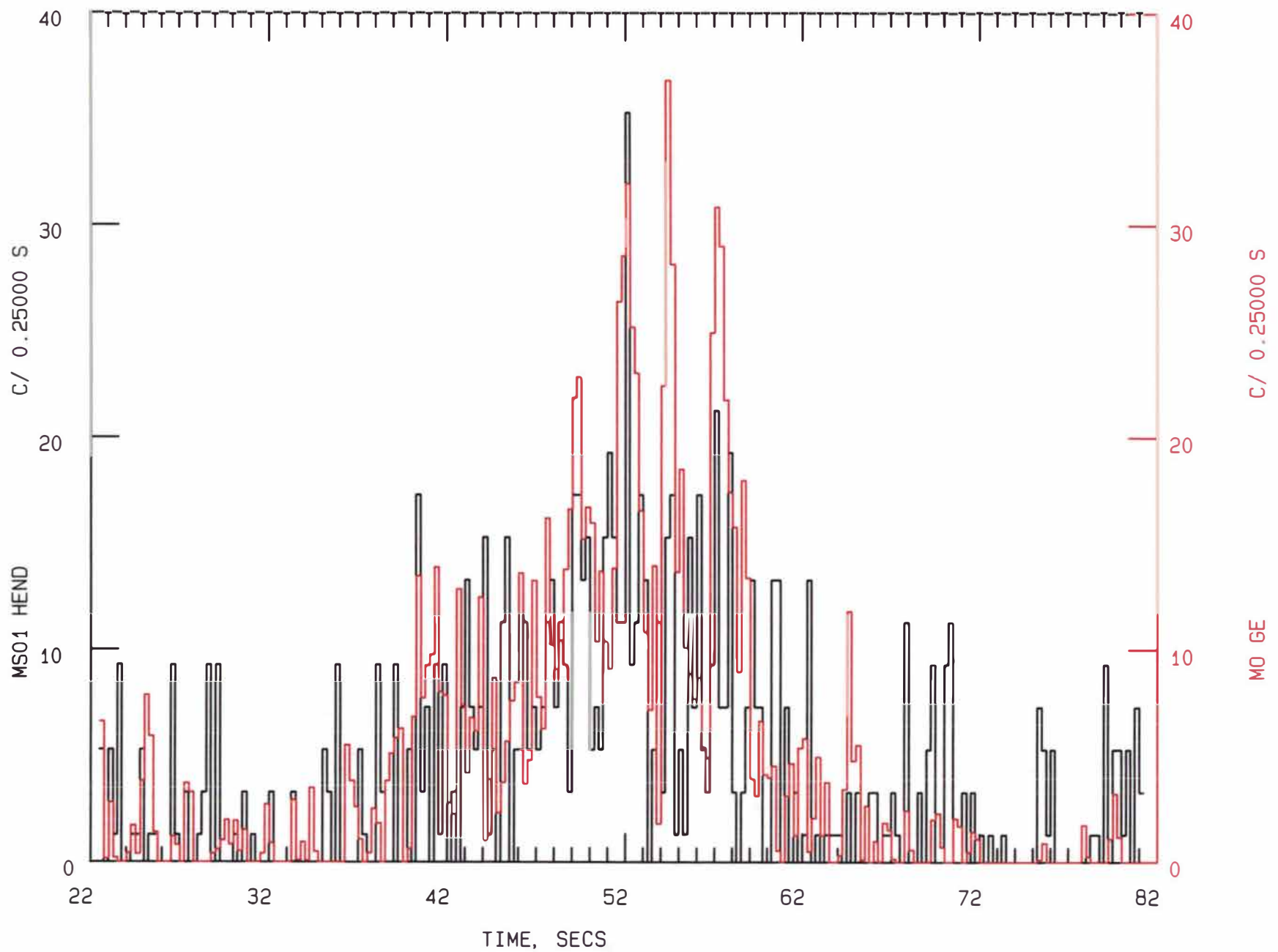
MS01 HEND -MO GE

CORRELATION

31/07/04

36482.420

1/ 8/ 8

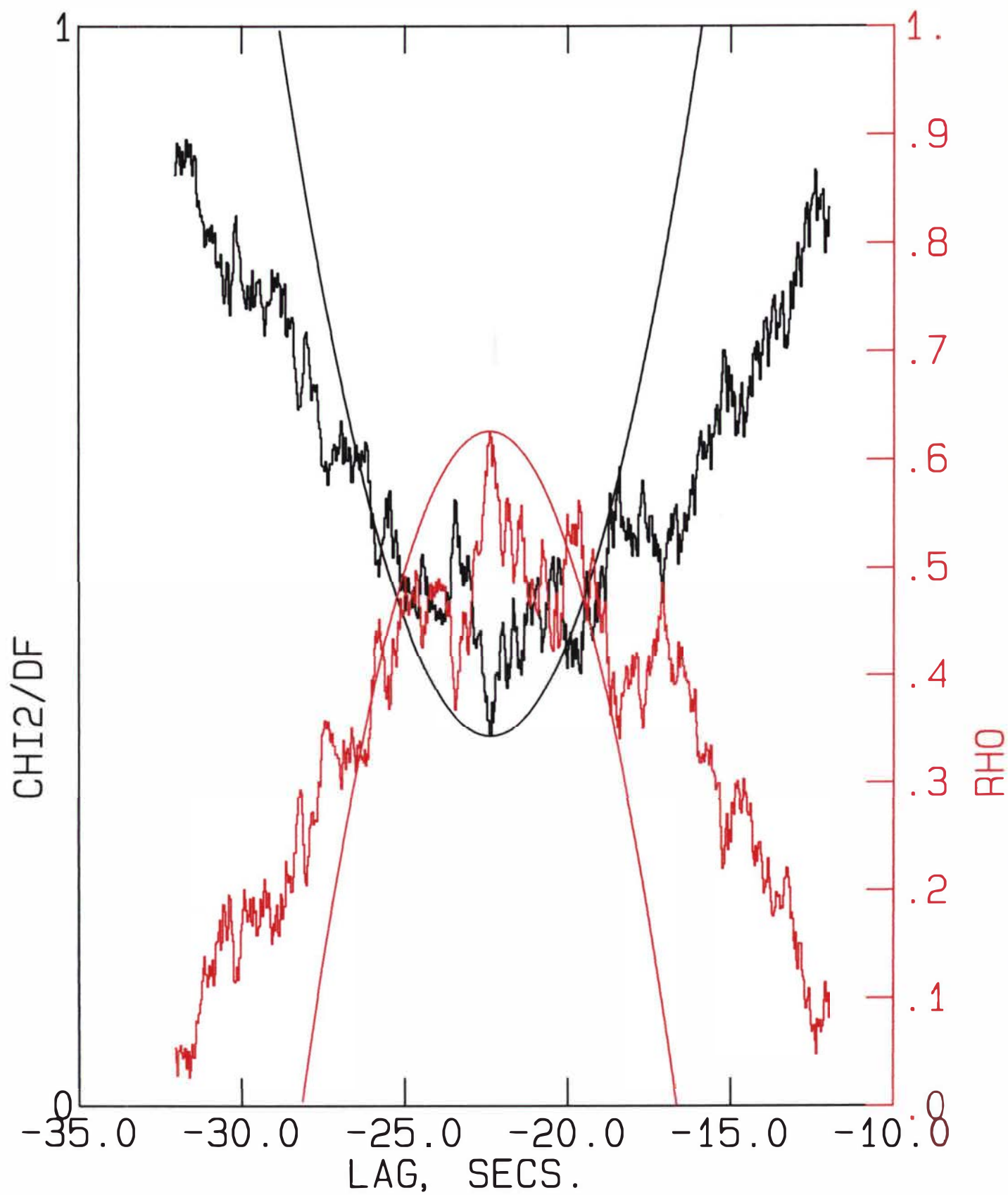


MS01 HEND -MO GE

CORRELATION

31/07/04

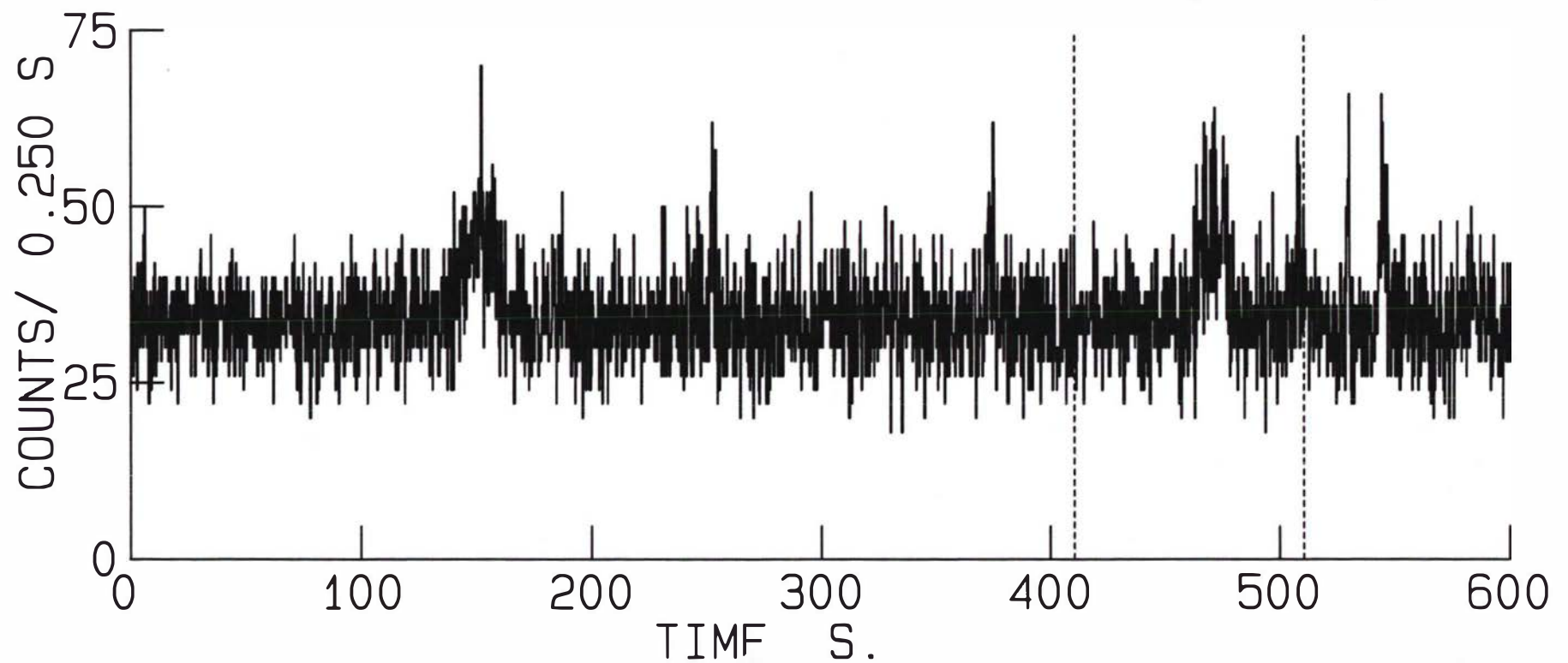
36482.420



MS01 HEND
31/07/04 36382.422 s
50-3000 keV

01/08/08

N= 10 M=40
>4.0 SIGMA FLUCTUATIONS



KONUS1

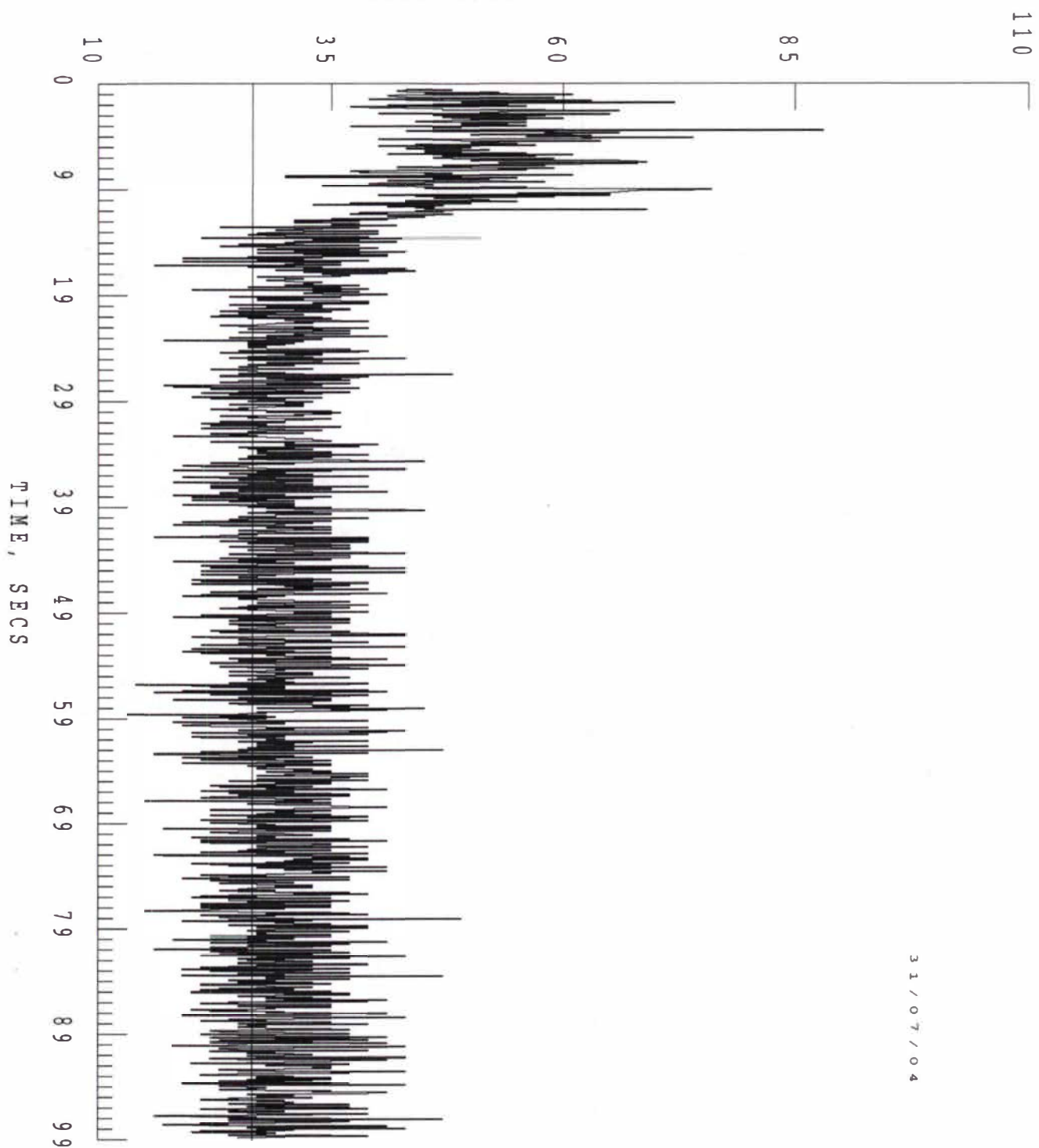
31/07/04

37473.944

10:24:33

50 - 200 keV

COUNTS/0.064 S



KONUS HRES 20040731 37473

TRIGGER TIME: 31/07/04 DOY 213 Julian 2453218.93372 UT = 10.409 10:24:33 (37473.000 secs)

Chan 1 : [15 - 50 keV]

Chan 2 : [50 - 200 keV]

Chan 3 : [200 - 770 keV]

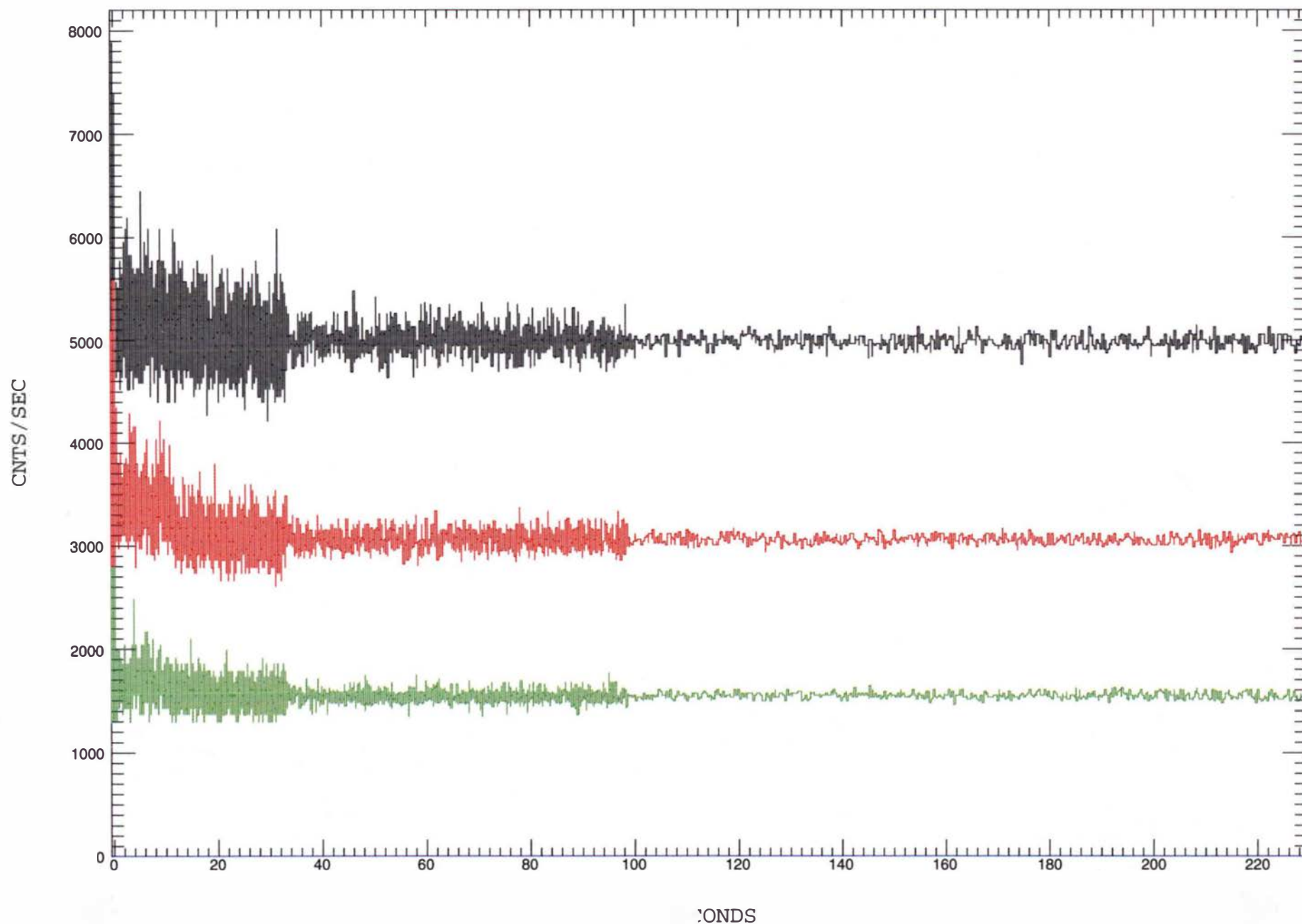
Chan 4 : [> 10 MeV]

Channel 1 + 3900

Channel 2 + 2600

Channel 3 + 1300

Channel 4 + 0



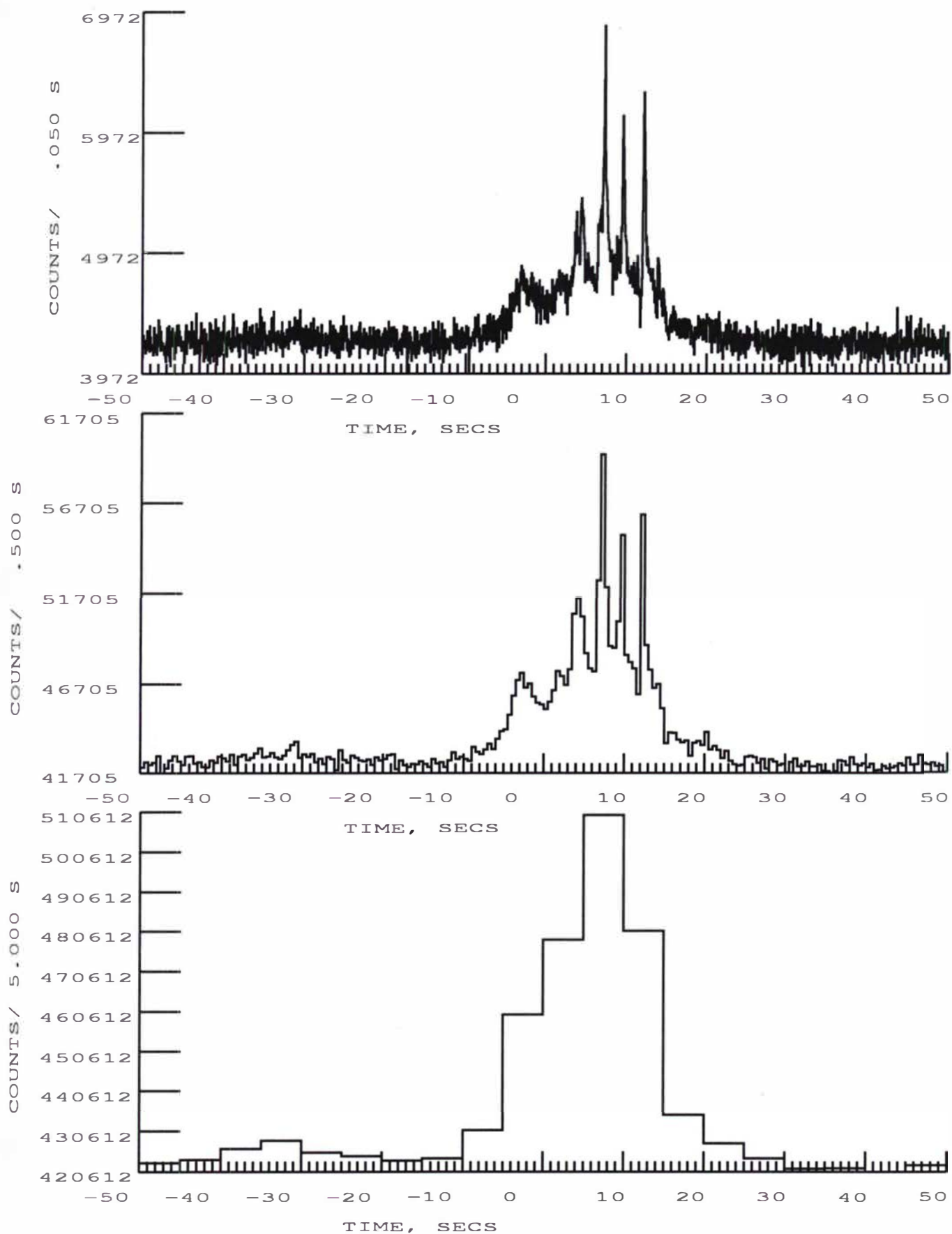
INTEGRAL

31/07/04

37473.000

10:24:33.0

26/09/13

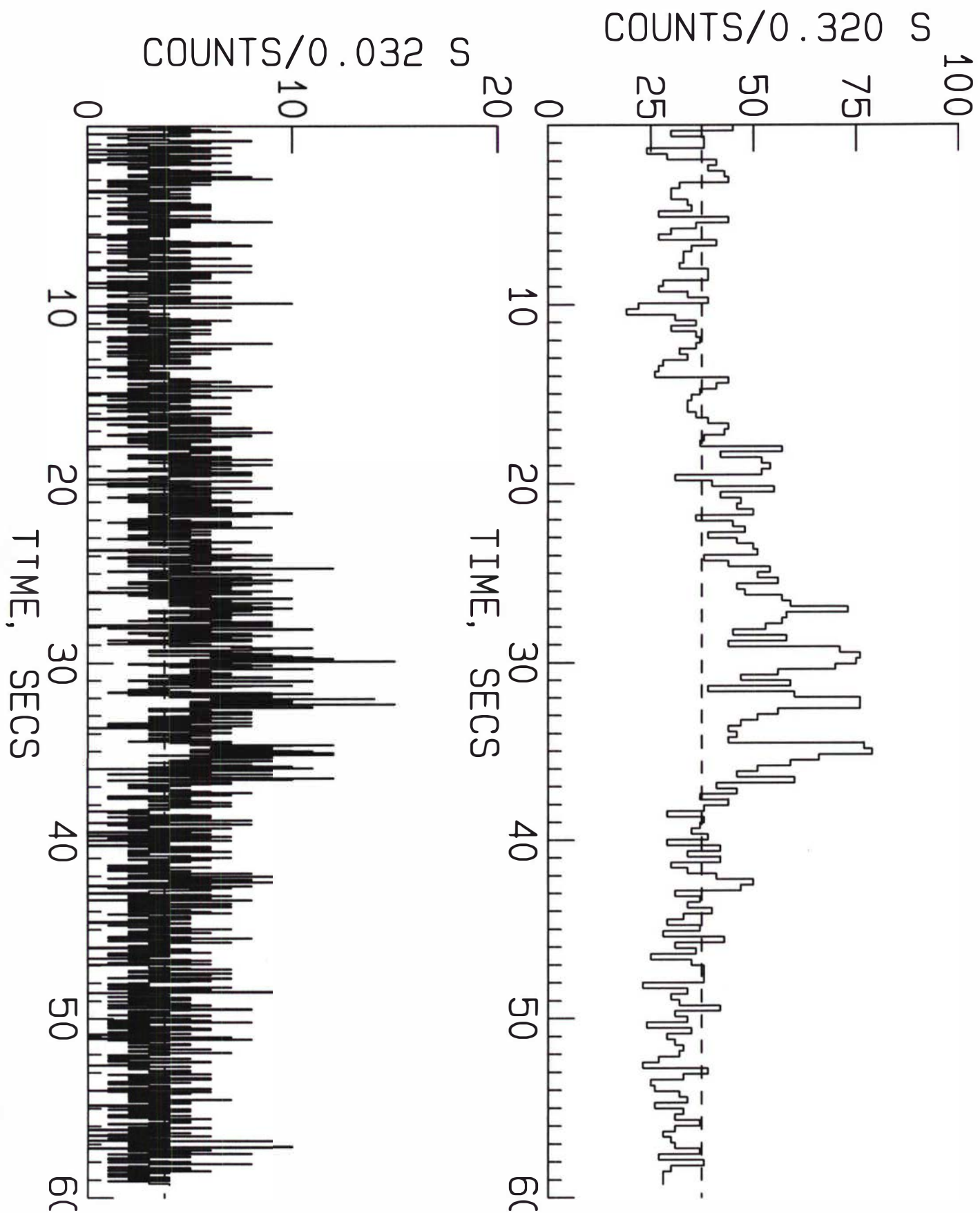


MO GE

31/07/04 36504.648

116- 337 keV

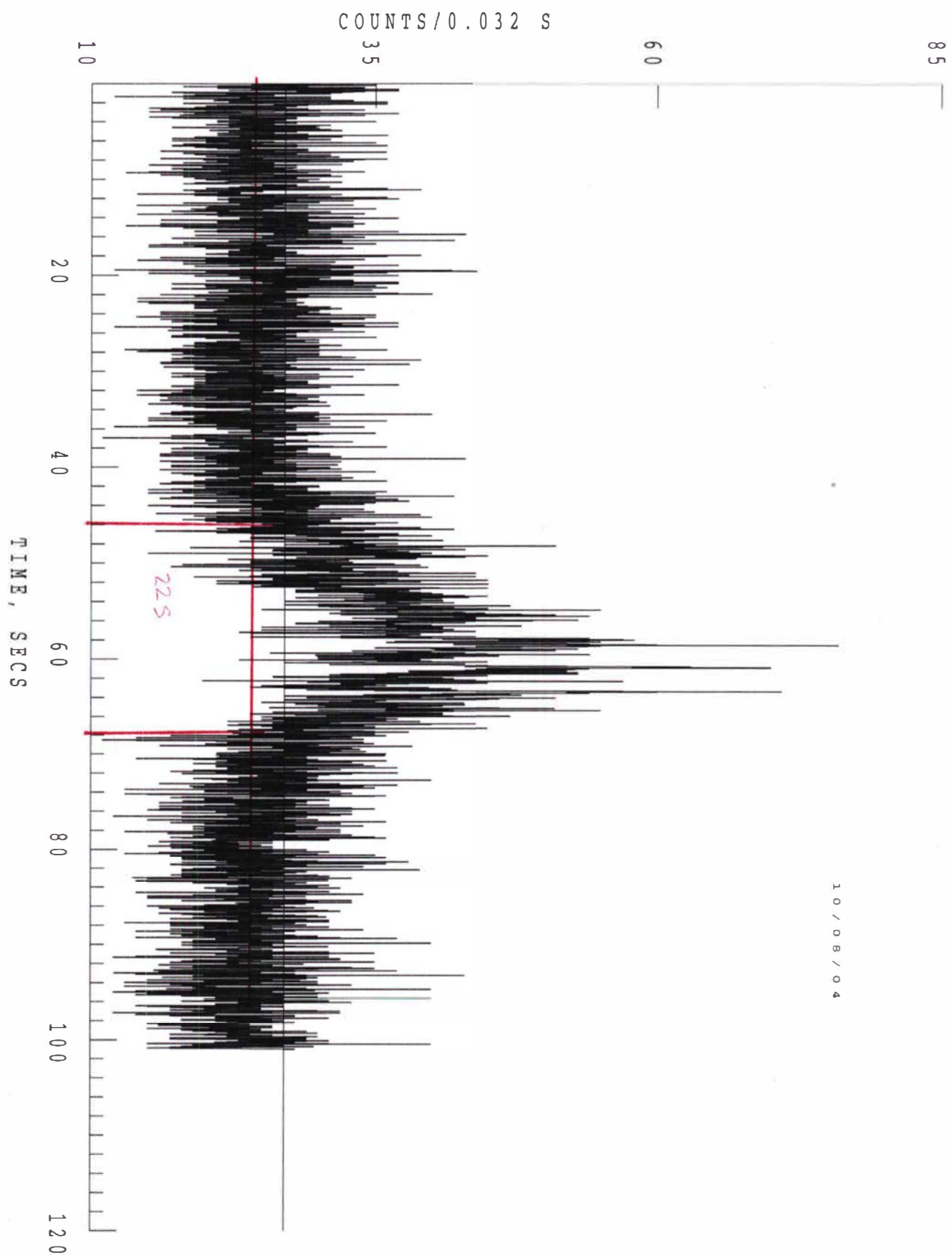
23 / 7 / 8



HESSI

31/07/04 37422.000 (konus_20040731_37473)

50 - 200 keV



FREGATE SURVEY (TH) TIME HISTORY (AVG x1) -- DETECTORS 1-4 SUMMED (KONUS1_20040731_37473)

BEG TIME: 31/07/04 DOY 213 Julian 2453218.93125 UT = 10.350 10:21:00 (37260.000 secs) [sct = 0019 9e27 513f 85d1]
 END TIME: 31/07/04 DOY 213 Julian 2453218.93583 UT = 10.460 10:27:36 (37656.000 secs) [sct = 0019 9e27 68da 0225]

Chan 1:[E1=18 E2=103]

Chan 2:[E3=18 E4=78]

Chan 3:[E5=20 E6=510]

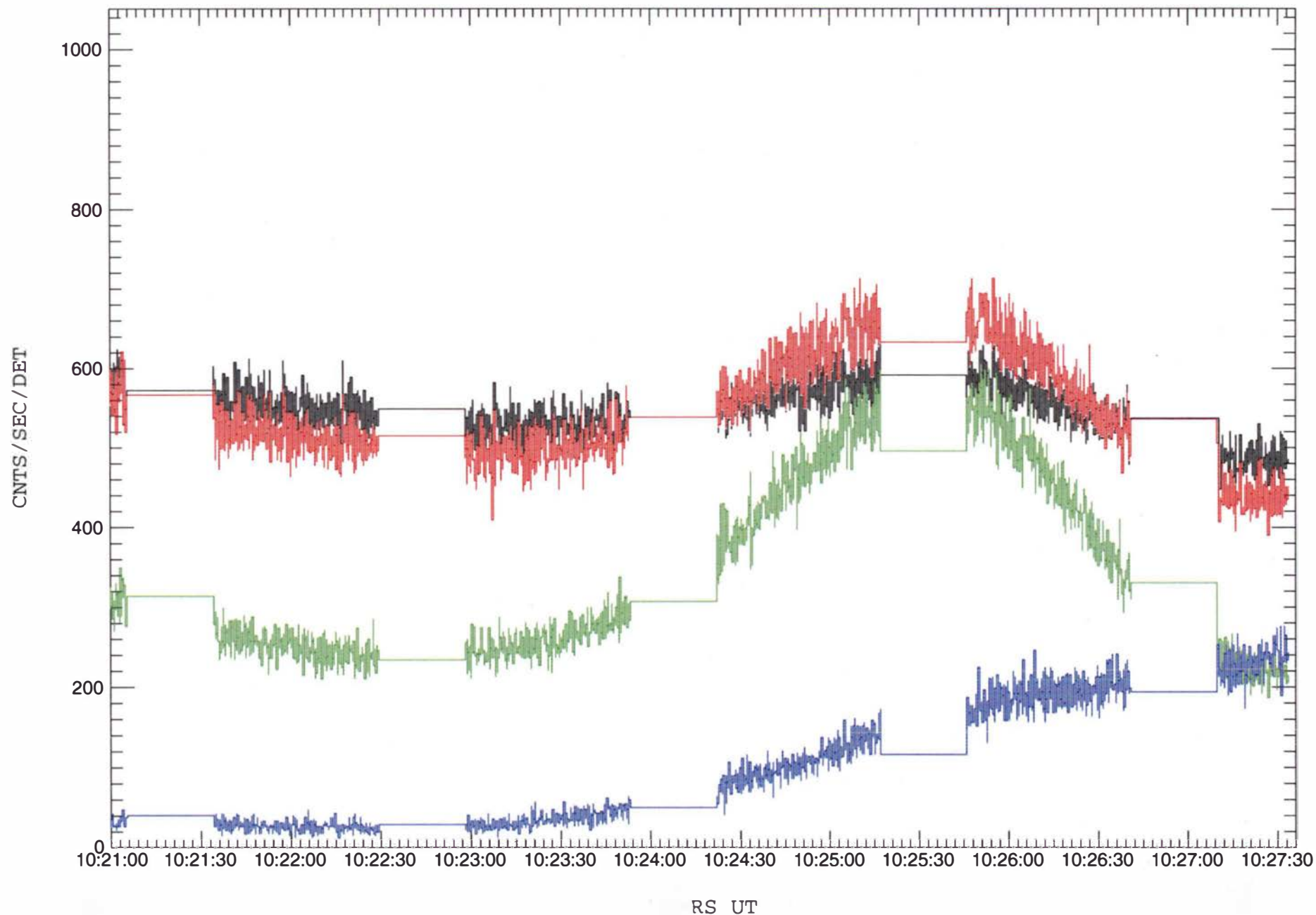
Chan 4:[E6=510 ->]

Channel 1 + 300

Channel 2 + 200

Channel 3 + 100

Channel 4 + 0



From owner-hete-science@space.mit.edu Sat Jul 31 08:46:01 2004

Date: Sat, 31 Jul 2004 11:46:31 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: hete-science@space.mit.edu

Subject: [hete-science] BURST 3473, XG on WXM data at 040731_141800

X-CanItPRO-Stream: admin

X-Spam-Score: 0 ()

X-Scanned-By: CanIt (www . canit . ca)

XR3

hops: BURST 3473, XG on WXM data, crit 54 at 040731_141800, Long 37E, Phase 0.1

From owner-hete-science@space.mit.edu Sat Jul 31 08:45:57 2004

Date: Sat, 31 Jul 2004 11:46:26 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: hete-science@space.mit.edu

Subject: [hete-science] BURST 3474, XG on WXM data at 040731_142612

X-CanItPRO-Stream: admin

X-Spam-Score: 0 ()

X-Scanned-By: CanIt (www . canit . ca)

XRJB

hops: BURST 3474, XG on WXM data, crit 27 at 040731_142612, Long 65E, Phase 0.2

From owner-hete-science@space.mit.edu Sat Jul 31 08:46:21 2004

Date: Sat, 31 Jul 2004 11:46:07 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

\: 1043254.page@lanl.gov, 15103261742@pacbellpcs.net, 1819380@pagemart.net,
3033595450@tmomail.net, 6177460320@myairmail.com,
6177460736@myairmail.com, 6177465312@myairmail.com,
6177465315@myairmail.com, 6177467818@myairmail.com,
6177468955@myairmail.com, 7073327926@messaging.sprintpcs.com,
7733503838@vtext.com, 7737180106@vtext.com, 7737814550@myairmail.com,
air-cantata.147@docomo.ne.jp, daiki.vitz.ftr223@docomo.ne.jp,
eugene.1106@ezweb.ne.jp, grb-hete@ezweb.ne.jp,
hete-science@space.mit.edu, jkotoku@ezweb.ne.jp,
makoto-arimoto@n.vodafone.ne.jp, motoko_prime@di.pdx.ne.jp,
nohung@t.vodafone.ne.jp, r08031241707@t.vodafone.ne.jp,
rosalia-pager@galassi.org, taka.hete2_xrf-020903@docomo.ne.jp,
tohru_0923@docomo.ne.jp, torii.y.kenichi@docomo.ne.jp,
toru.tamagawa@ezweb.ne.jp, yamayoshi-0908@ezweb.ne.jp,
yshirasa-hete-grb@docomo.ne.jp

Subject: [Spam:****] [hete-science] BURST 3475, XG on WXM data at 040731_143138

X-CanItPRO-Stream: admin

X-Spam-Score: 4.3 (****) SORTED_RECIPS

X-Scanned-By: CanIt (www . canit . ca)

XR3

hops: BURST 3475, XG on WXM data, crit 0 at 040731_143138, Long 84E, Phase 0.33

From owner-hete-science@space.mit.edu Sat Jul 31 07:53:19 2004

Date: Sat, 31 Jul 2004 10:53:44 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: hete-science@space.mit.edu

Subject: [hete-science] BURST 3476, XG on WXM data at 040731_144718

X-CanItPRO-Stream: admin

X-Spam-Score: 0 ()

X-Scanned-By: CanIt (www . canit . ca)

XR3

hops: BURST 3476, XG on WXM data, crit 53 at 040731_144718, Long 139E, Phase 0.

From owner-hete-science@space.mit.edu Sat Jul 31 08:45:30 2004

Date: Sat, 31 Jul 2004 11:45:57 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: hete-science@space.mit.edu

Subject: [hete-science] BURST 3477, XG on WXM data at 040731_150724

X-CanItPRO-Stream: admin

X-Spam-Score: 0 ()

X-Scanned-By: CanIt (www . canit . ca)

XR3

hops: BURST 3477, XG on WXM data, crit 45 at 040731_150724, Long 151W, Phase 0.

From owner-hete-science@space.mit.edu Sat Jul 31 10:28:54 2004

Date: Sat, 31 Jul 2004 13:29:20 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: hete-science@space.mit.edu

Subject: [hete-science] BURST 3478, XG on WXM data at 040731_155308

X-CanItPRO-Stream: admin

X-Spam-Score: 0 ()

X-Scanned-By: CanIt (www . canit . ca)

XRB

hops: BURST 3478, XG on WXM data, crit 67 at 040731_155308, Long 9E, Phase 0.18

From owner-hete-science@space.mit.edu Sat Jul 31 10:29:20 2004

Date: Sat, 31 Jul 2004 13:29:47 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: hete-science@space.mit.edu

Subject: [hete-science] BURST 3479, XG on WXM data at 040731_155818

X-CanItPRO-Stream: admin

X-Spam-Score: 0 ()

X-Scanned-By: CanIt (www . canit . ca)

XRB

hops: BURST 3479, XG on WXM data, crit 53 at 040731_155818, Long 27E, Phase 0.2

From owner-hete-science@space.mit.edu Sat Jul 31 09:14:14 2004

Date: Sat, 31 Jul 2004 12:14:40 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: hete-science@space.mit.edu

Subject: [hete-science] BURST 3480, XG on WXM data at 040731_160806

X-CanItPRO-Stream: admin

X-Spam-Score: 0 ()

X-Scanned-By: CanIt (www . canit . ca)

XR3

hops: BURST 3480, XG on WXM data, crit 54 at 040731_160806, Long 61E, Phase 0.3

From owner-hete-science@space.mit.edu Sat Jul 31 10:28:57 2004

Date: Sat, 31 Jul 2004 13:29:19 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: 1043254.page@lanl.gov, 15103261742@pacbellpcs.net, 1819380@pagemart.net,
3033595450@tmomail.net, 6177460320@myairmail.com,
6177460736@myairmail.com, 6177465312@myairmail.com,
6177465315@myairmail.com, 6177467818@myairmail.com,
6177468955@myairmail.com, 7073327926@messaging.sprintpcs.com,
7733503838@vtext.com, 7737180106@vtext.com, 7737814550@myairmail.com,
air-cantata.147@docomo.ne.jp, daiki.vitz.ftr223@docomo.ne.jp,
eugene.1106@ezweb.ne.jp, grb-hete@ezweb.ne.jp,
hete-science@space.mit.edu, jkotoku@ezweb.ne.jp,
makoto-arimoto@n.vodafone.ne.jp, motoko_prime@di.pdx.ne.jp,
nohung@t.vodafone.ne.jp, r08031241707@t.vodafone.ne.jp,
rosalia-pager@galassi.org, taka.hete2_xrf-020903@docomo.ne.jp,
tohru_0923@docomo.ne.jp, torii.y.kenichi@docomo.ne.jp,
toru.tamagawa@ezweb.ne.jp, yamayoshi-0908@ezweb.ne.jp,
yshirasa-hete-grb@docomo.ne.jp

Subject: [Spam:****] [hete-science] BURST 3481, XG on WXM data at 040731_161150

X-CanItPRO-Stream: admin

X-Spam-Score: 4.3 (****) SORTED_RECIPS

X-Scanned-By: CanIt (www . canit . ca)

XR3

hops: BURST 3481, XG on WXM data, crit 50 at 040731_161150, Long 74E, Phase 0.3

From owner-hete-science@space.mit.edu Sat Jul 31 10:28:56 2004

Date: Sat, 31 Jul 2004 13:29:24 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: hete-science@space.mit.edu

Subject: [hete-science] BURST 3482, XG on WXM data at 040731_162201

X-CanItPRO-Stream: admin

X-Spam-Score: 0 ()

X-Scanned-By: CanIt (www . canit . ca)

XR8

hops: BURST 3482, XG on WXM data, crit 1 at 040731_162201, Long 109E, Phase 0.4

From owner-hete-science@space.mit.edu Sat Jul 31 10:29:18 2004

Date: Sat, 31 Jul 2004 13:29:47 -0400 (EDT)

From: HETE Operator <hops@space.mit.edu>

To: hete-science@space.mit.edu

Subject: [hete-science] BURST 3483, XG on WXM data at 040731_162823

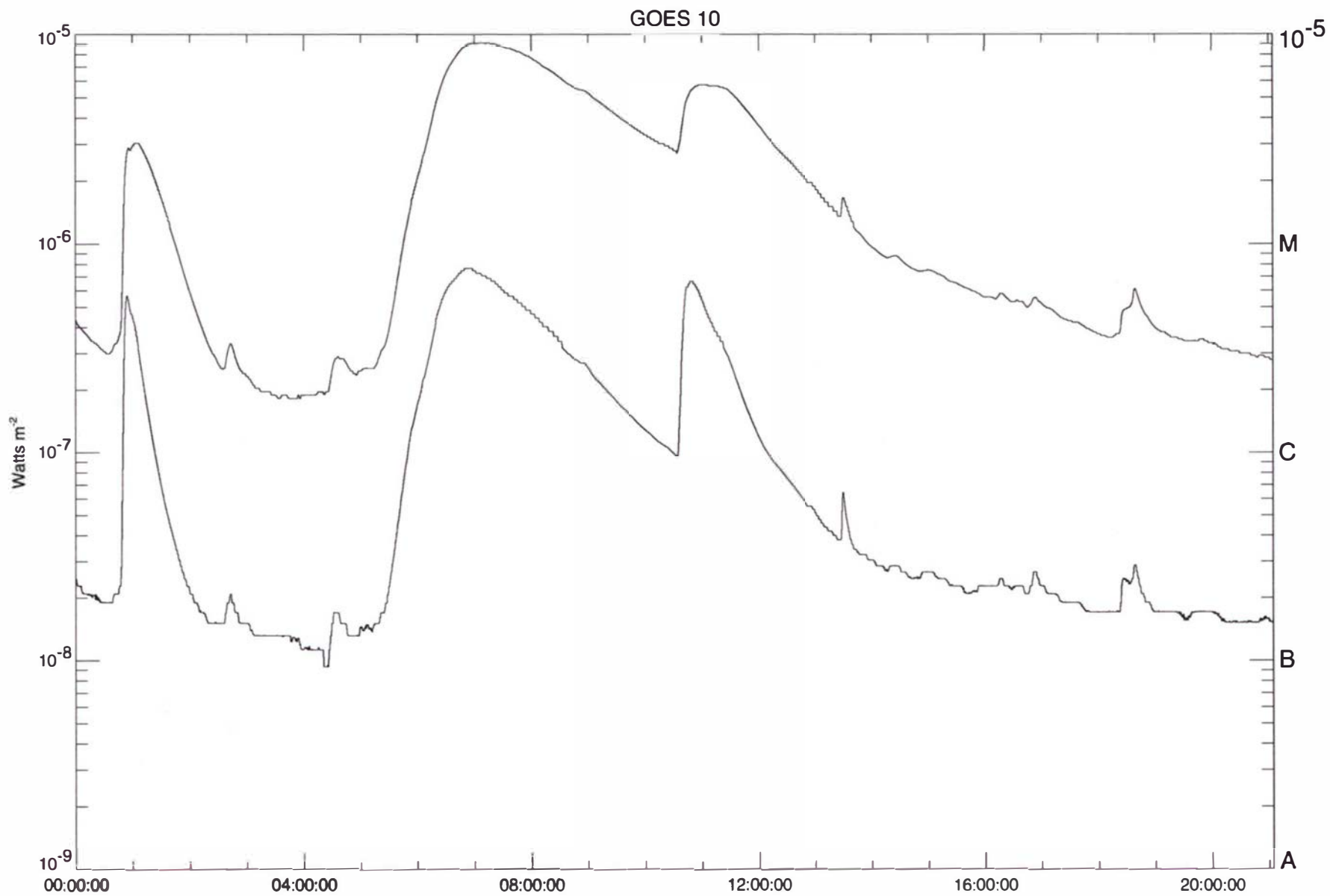
X-CanItPRO-Stream: admin

X-Spam-Score: 0 ()

X-Scanned-By: CanIt (www . canit . ca)

XRB

hops: BURST 3483, XG on WXM data, crit 0 at 040731_162823, Long 132E, Phase 0.5



Data Start: 04/07/31, 0000:00

Channel

1 (1.0 - 8.0 Angstroms)

Background not subtracted

Plot created: 04/08/01, 0828

2 (0.5 - 4.0 Angstroms)

Background not subtracted

Sample average = 10