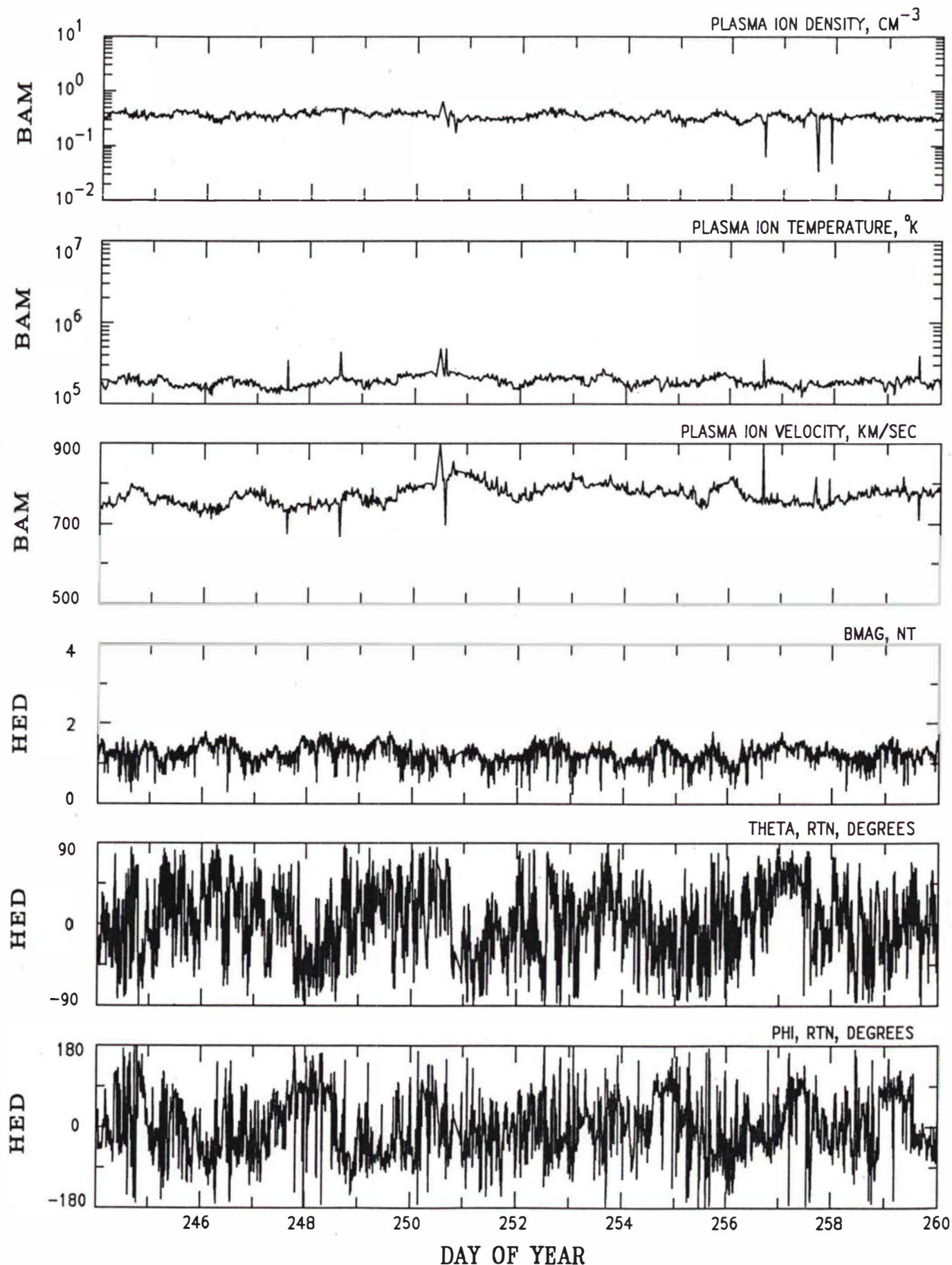


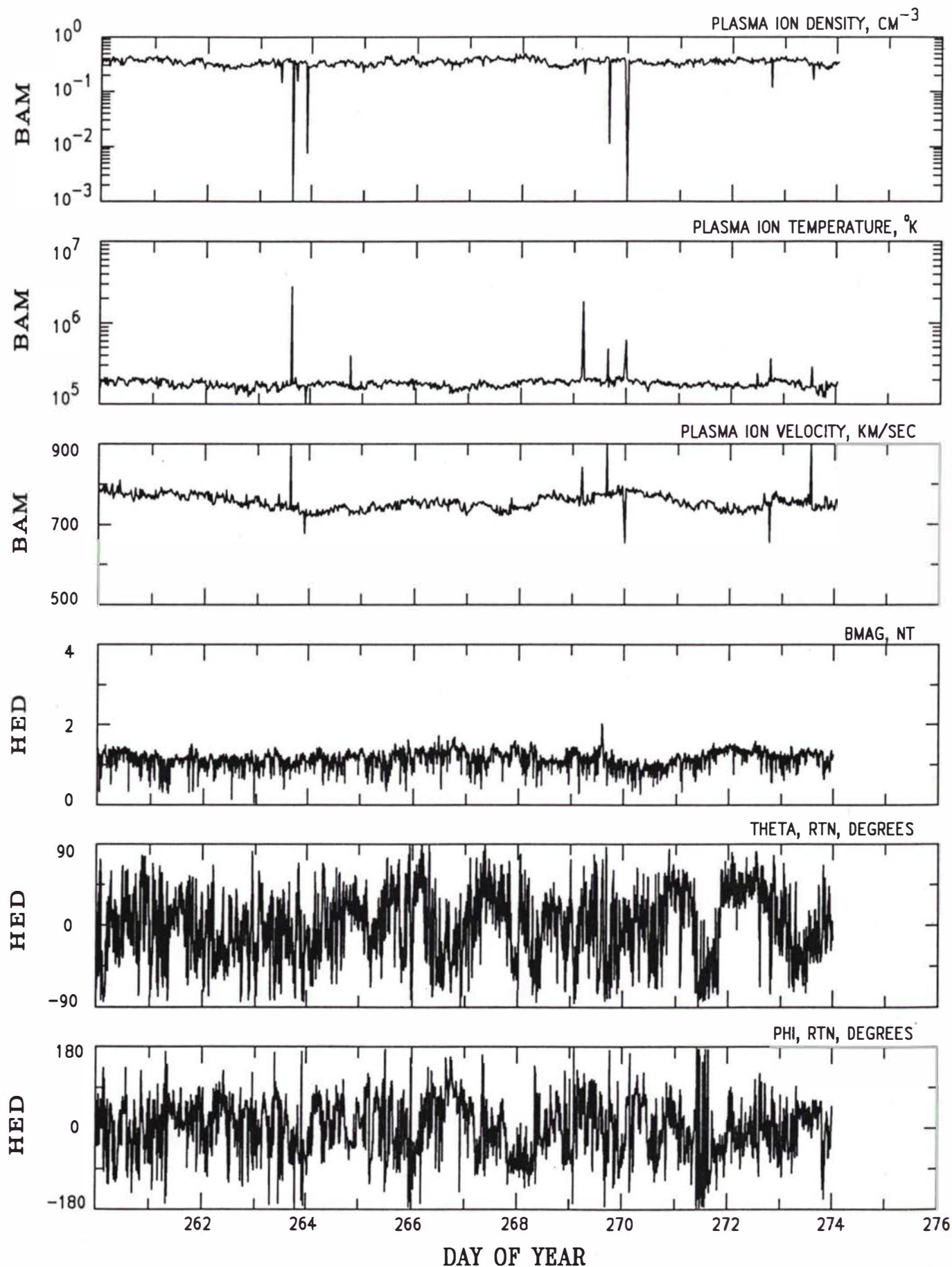
ULYSSES CDR - SOLAR WIND PLASMA AND MAGNETIC FIELD

95 244 SEP 1 00:00:00.000 - 95 260 SEP 17 00:00:00.000



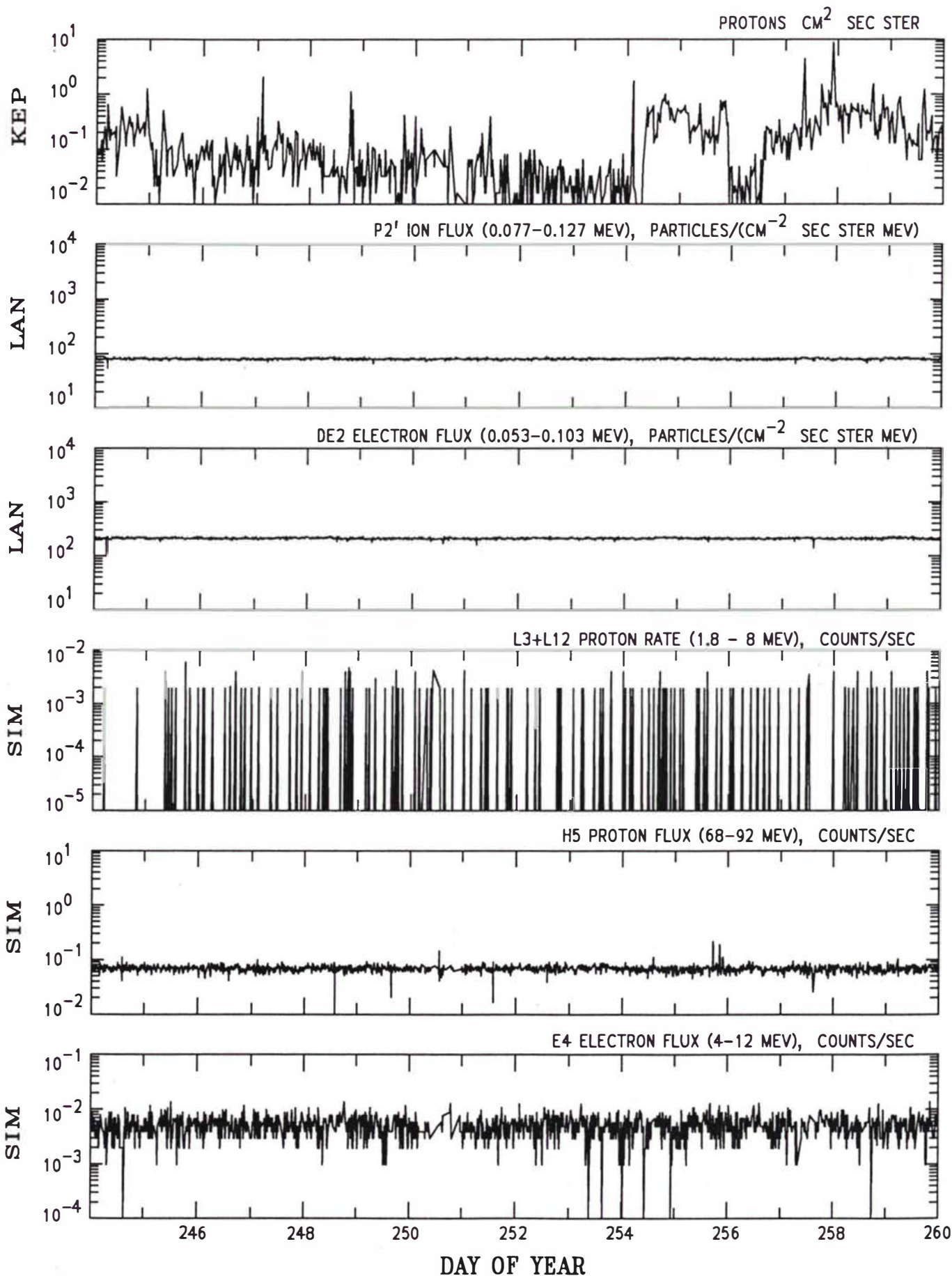
ULYSSES CDR - SOLAR WIND PLASMA AND MAGNETIC FIELD

95 260 SEP 17 00:00:00.000 - 95 276 OCT 3 00:00:00.000



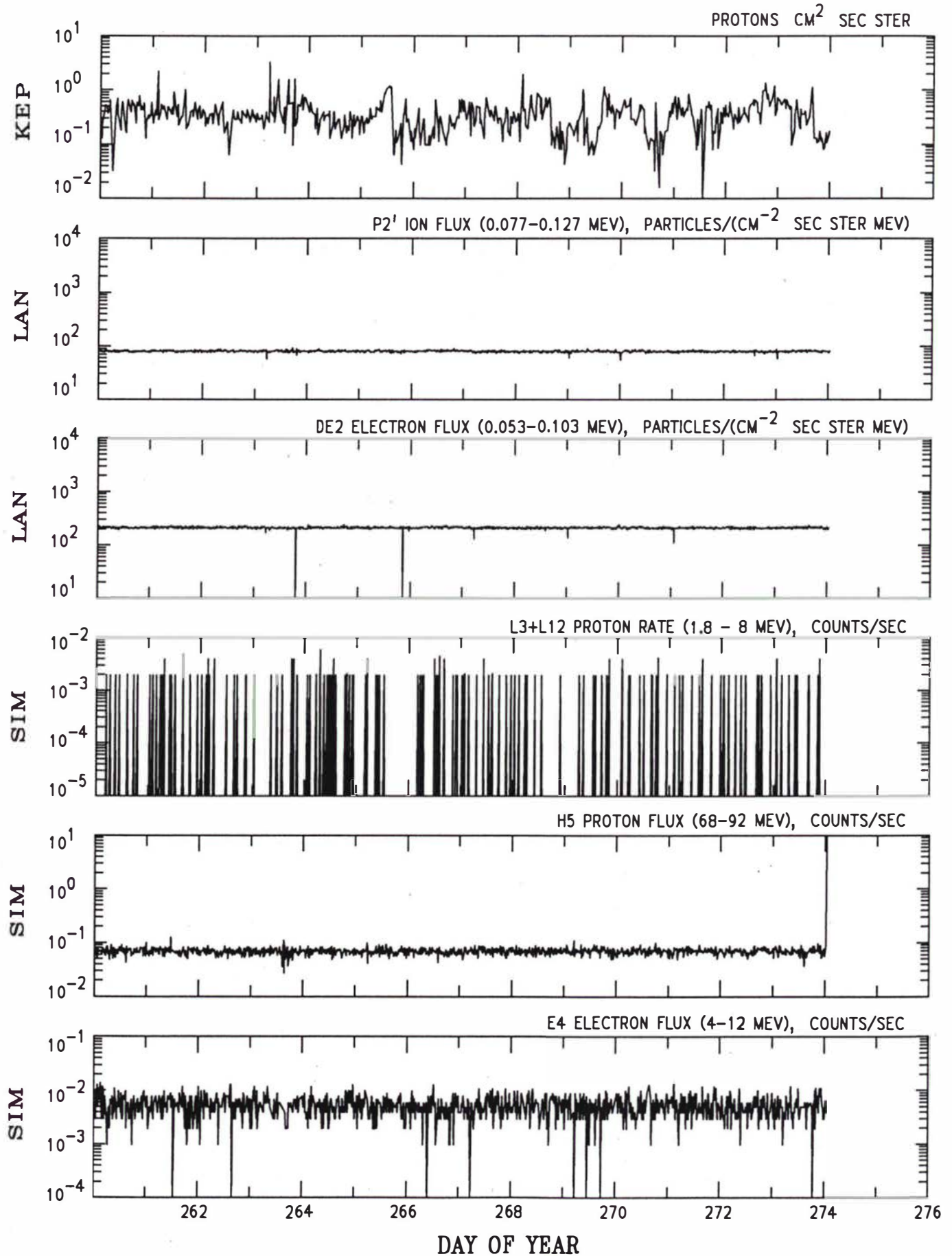
ULYSSES CDR - ENERGETIC PARTICLES, LOW ENERGY IONS AND COSMIC RAY

95 244 SEP 1 00:00:00.000 - 95 260 SEP 17 00:00:00.000



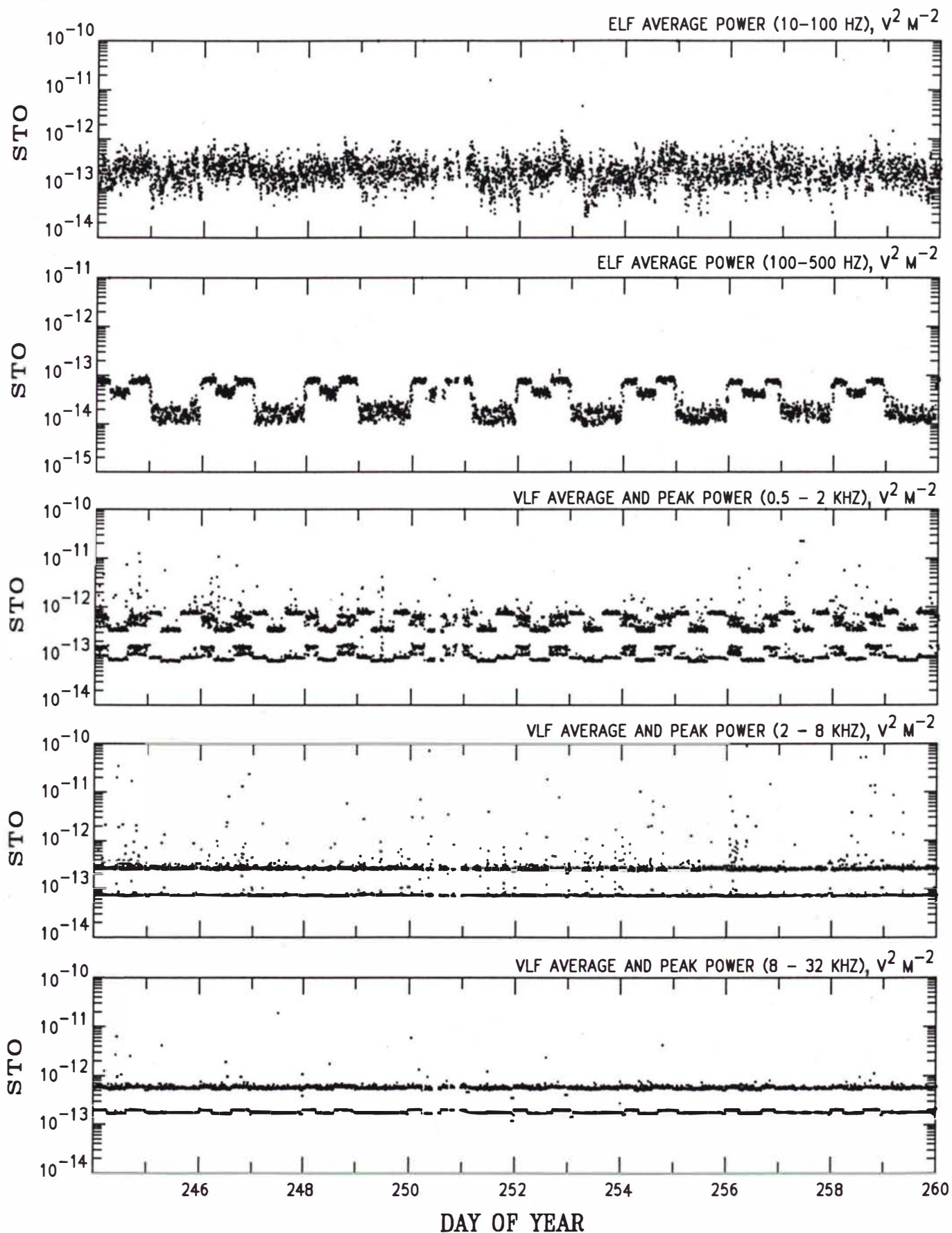
ULYSSES CDR - ENERGETIC PARTICLES, LOW ENERGY IONS AND COSMIC RAY

95 260 SEP 17 00:00:00.000 - 95 276 OCT 3 00:00:00.000



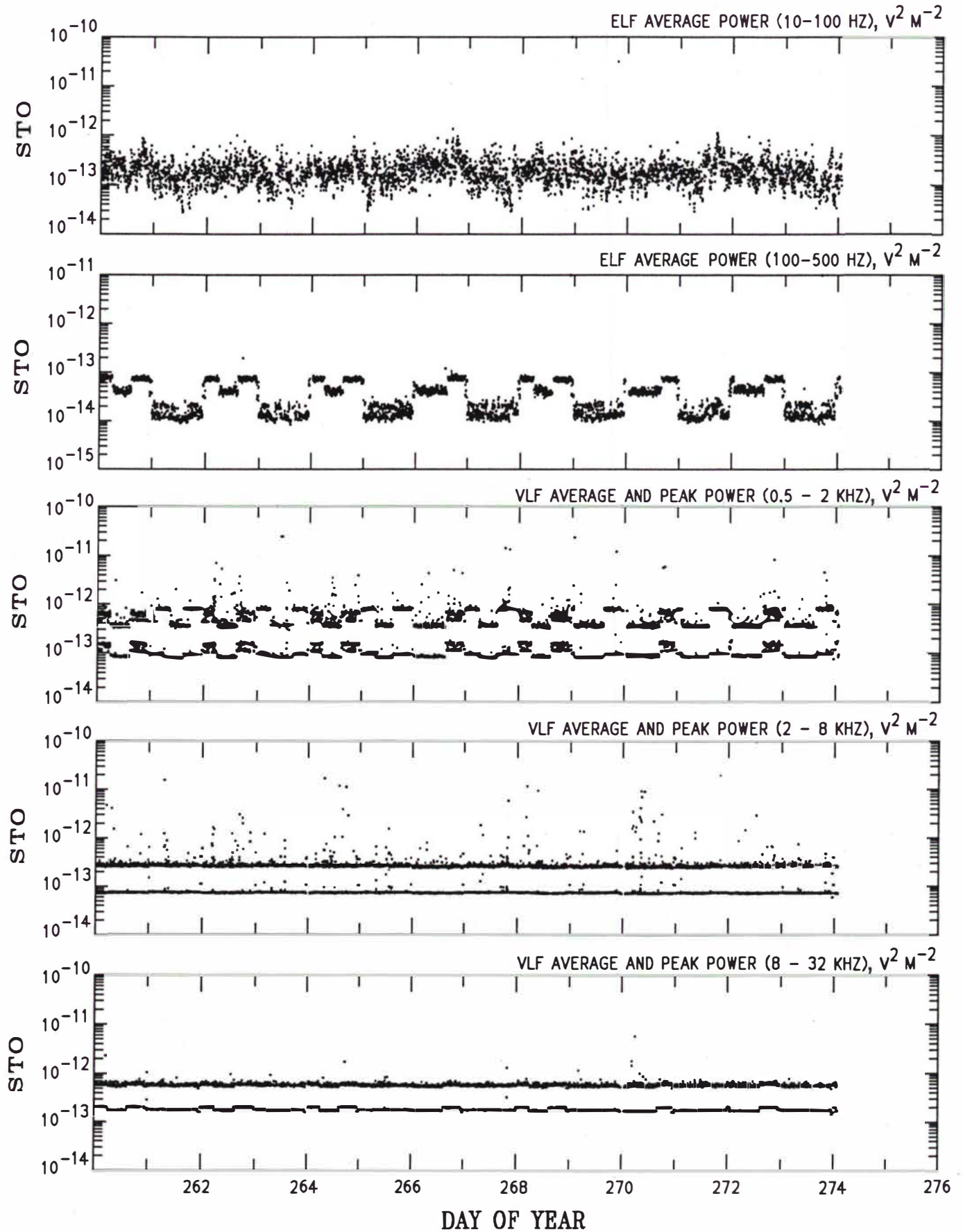
ULYSSES CDR - PLASMA WAVE

95 244 SEP 1 00:00:00.000 - 95 260 SEP 17 00:00:00.000



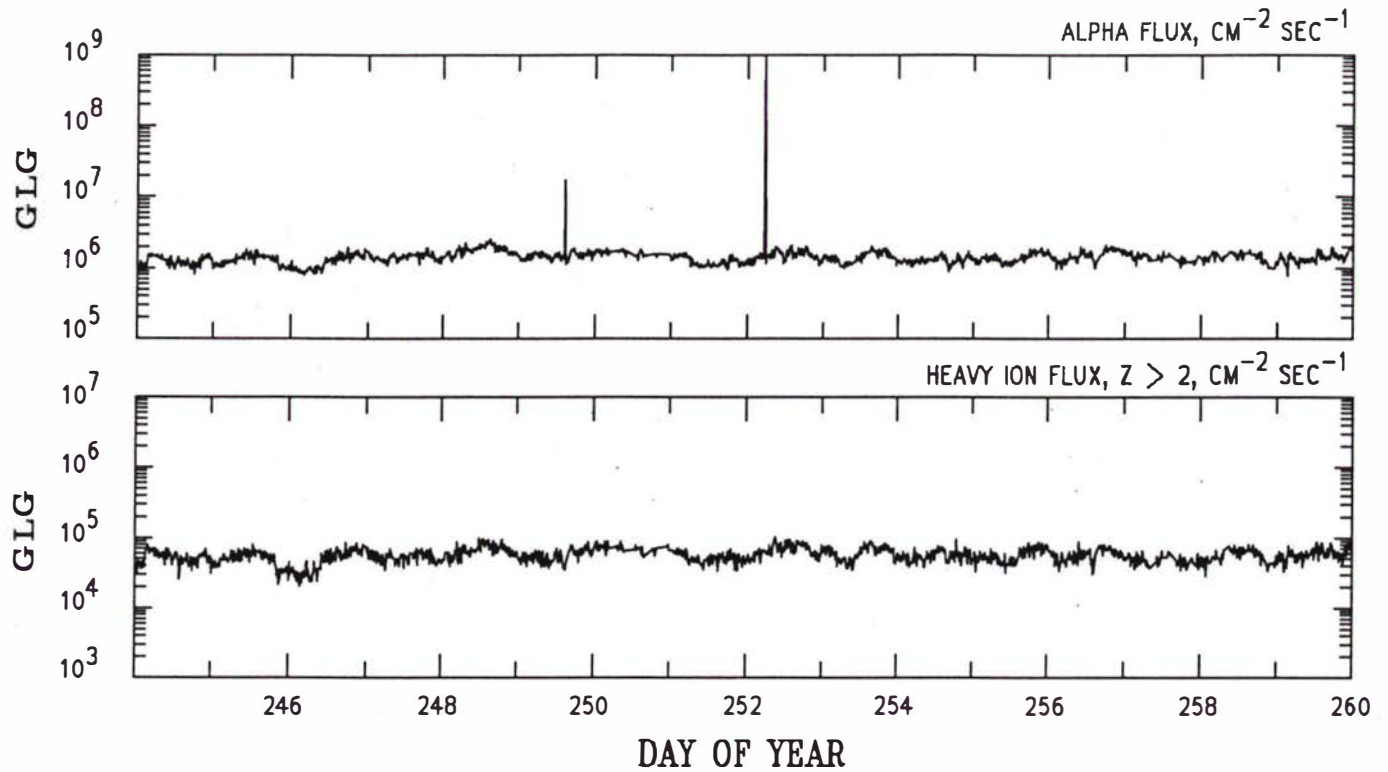
ULYSSES CDR - PLASMA WAVE

95 260 SEP 17 00:00:00.000 - 95 276 OCT 3 00:00:00.000



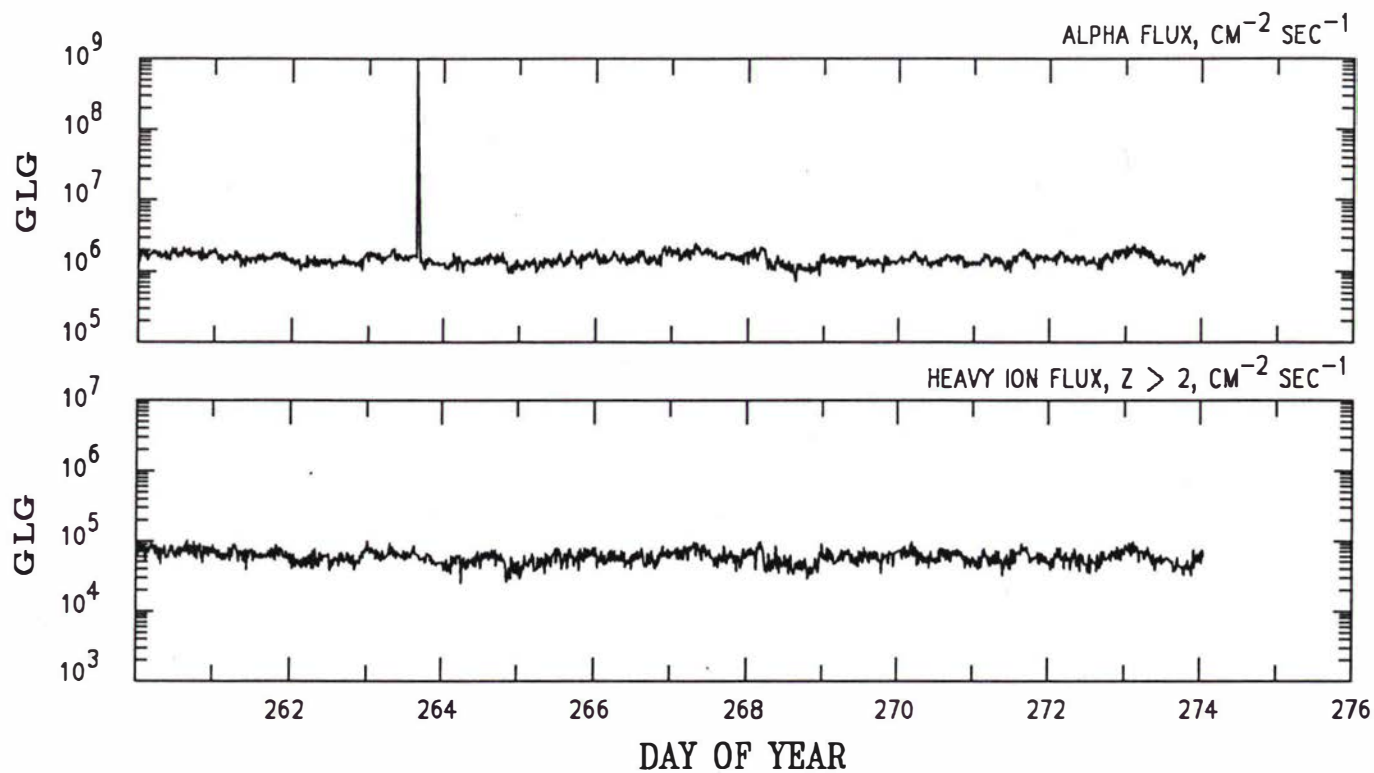
ULYSSES CDR - SOLAR WIND ION COMPOSITION

95 244 SEP 1 00:00:00.000 - 95 260 SEP 17 00:00:00.000



ULYSSES CDR - SOLAR WIND ION COMPOSITION

95 260 SEP 17 00:00:00.000 - 95 276 OCT 3 00:00:00.000



From SAHI@ssl.msfc.nasa.gov Tue Sep 5 12:07 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Tue, 5 Sep 1995 13:32:57 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3772

BATSEARCH PROGRAM

NO

BATSE BURST # 3772
EVENT OF 1995 SEP 1 DAY OF YEAR=244
EVENT CROSSING TIME AT BATSE : 1545. S. OR 00:25:45.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 131.000 46.000
BATSE PEAK COUNTING RATE: 4500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 1/ 9/ 95 IS:
RA= 187.990 DEC= 69.348 DIST= 2.502 AU
BATSE-ULYSSES DISTANCE = 374318046. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=143.76 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1007.10 SECS.
CROSSING TIME AT ULYSSES IS 538. S. OR 00:08:57 +/- 162.84 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 1/ 9/ 95 IS:
RA= 203.937 DEC= -10.119 DIST= 2.022 AU
MARS-BATSE DISTANCE = 302563136. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 94.26 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -74.96 SECS.
CROSSING TIME AT MARS IS 1470. S. OR 00:24:30 +/- 173.60 SECONDS

BATSE BURST TRIGGER

NO.: 3772

TIME: TJD=9961 SECONDS=01545

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=52.1 AZIMUTH=10.6 ERROR=3.6 DEGREES

COMMENTS:

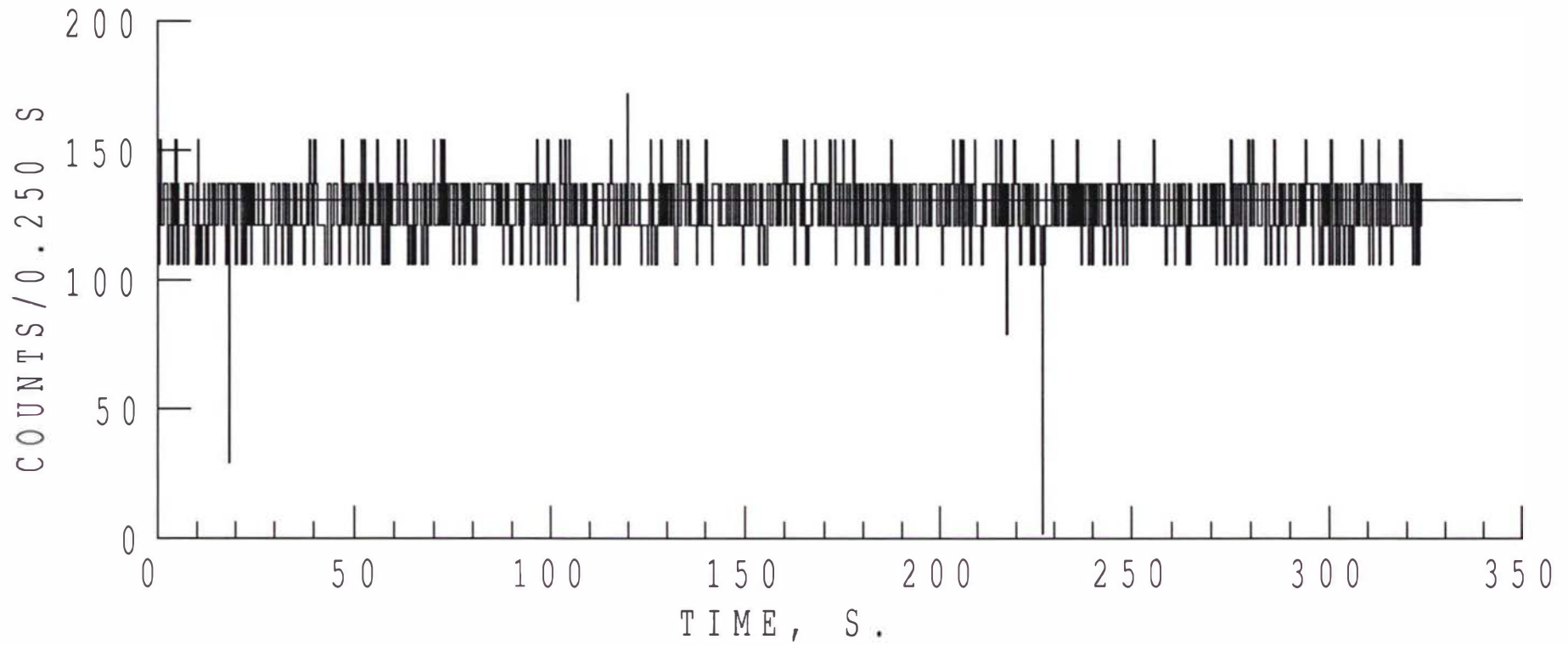
BURST, DOUBLE PULSE, DUR.~60 SECS. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3772	950901	9961	01545	4500	131	+46	60

6 / 9 / 95

ULYSSES RT
1 / 9 / 95 360.223 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

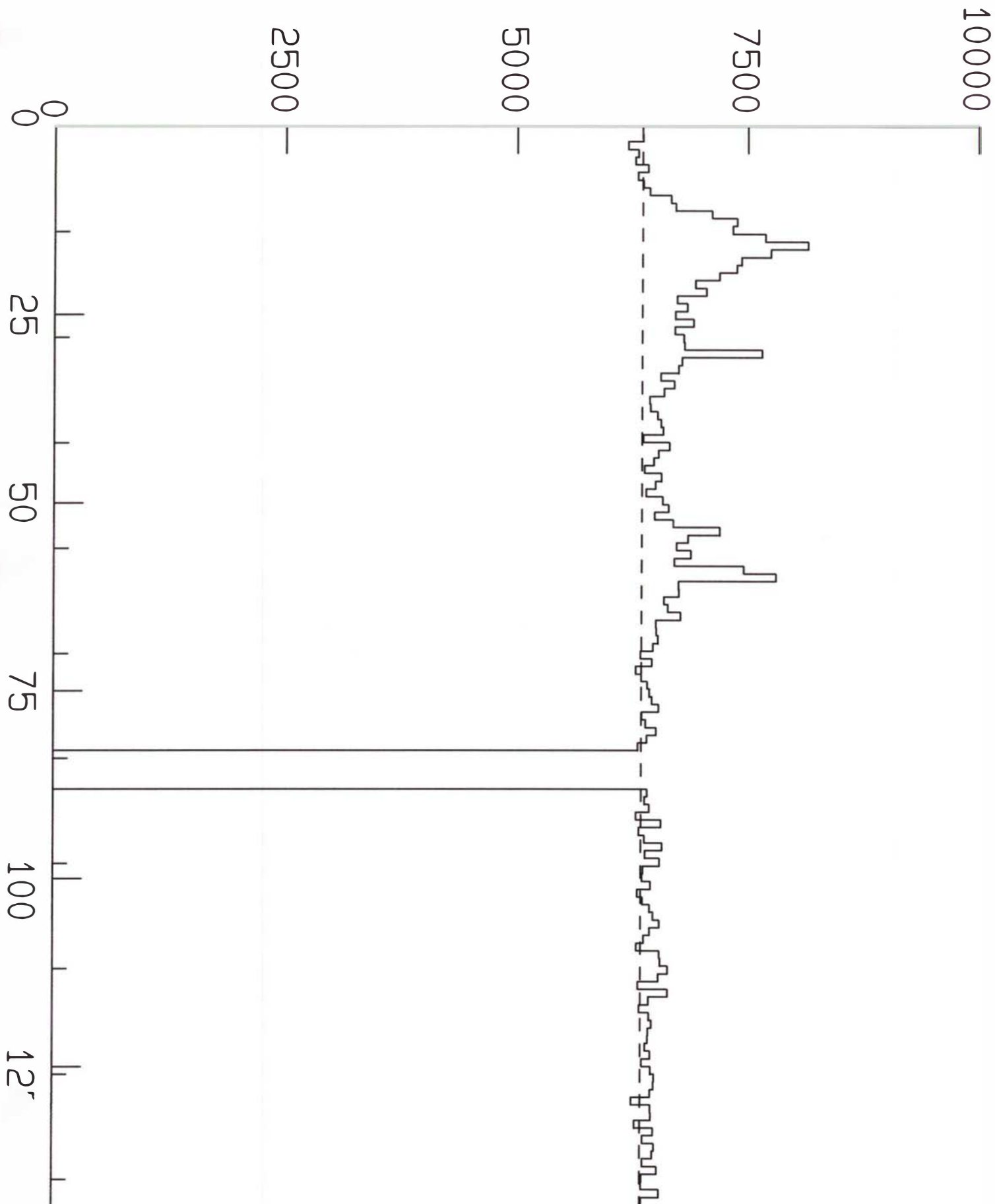


BACODINE

01/09/95

1533.617

25- 100 keV
COUNTS/1.024 S



From ayoung@compstel.unh.edu Fri Sep 1 10:19 PDT 1995
From: ayoung@compstel.unh.edu (C. Alex Young)
To: burstmail@compstel.unh.edu
Cc: ayoung@compstel.unh.edu
Subject: GRB950901: COMPTTEL BURST POSITION NOTICE
Date: Fri, 1 Sep 1995 13:16:57 -0400 (EDT)

```
TITLE      : COMPTTEL BURST POSITION NOTICE: GRB950901(recomputed)
NOTICE_DATE: Fri Sep 1 17:11:30 GMT 1995
ORIG_SENDER: burst@compstel.unh.edu
*****
BURST_DATE : 9961 TJD; 1-SEP-1995
BURST_TIME : 1545.00 SEC; 0:25:45 UT
BURST_SCZEN: 42.7 Deg.
BURST_SCAZI: 356.6 Deg.
BURST_CLASS: Weak (Approx 21 events)
*****
COORD_J2000: [RAsc      Decl]  [RAsc      Decl]
=====
MAXLIK_POS : [116.1d  44.8d] = [ 7h44m16s  44d45m 3s]

ERRBOX1_POS: [114.8d  44.4d] = [ 7h39m 9s  44d24m44s]
ERRBOX2_POS: [115.8d  46.0d] = [ 7h43m 2s  46d 1m51s]
ERRBOX3_POS: [117.4d  45.5d] = [ 7h49m40s  45d31m12s]
ERRBOX4_POS: [116.4d  43.9d] = [ 7h45m39s  43d54m51s]
*****
COORD_B1950: [RAsc      Decl]  [RAsc      Decl]
=====
MAXLIK_POS : [115.2d  44.9d] = [ 7h40m48s  44d52m36s]

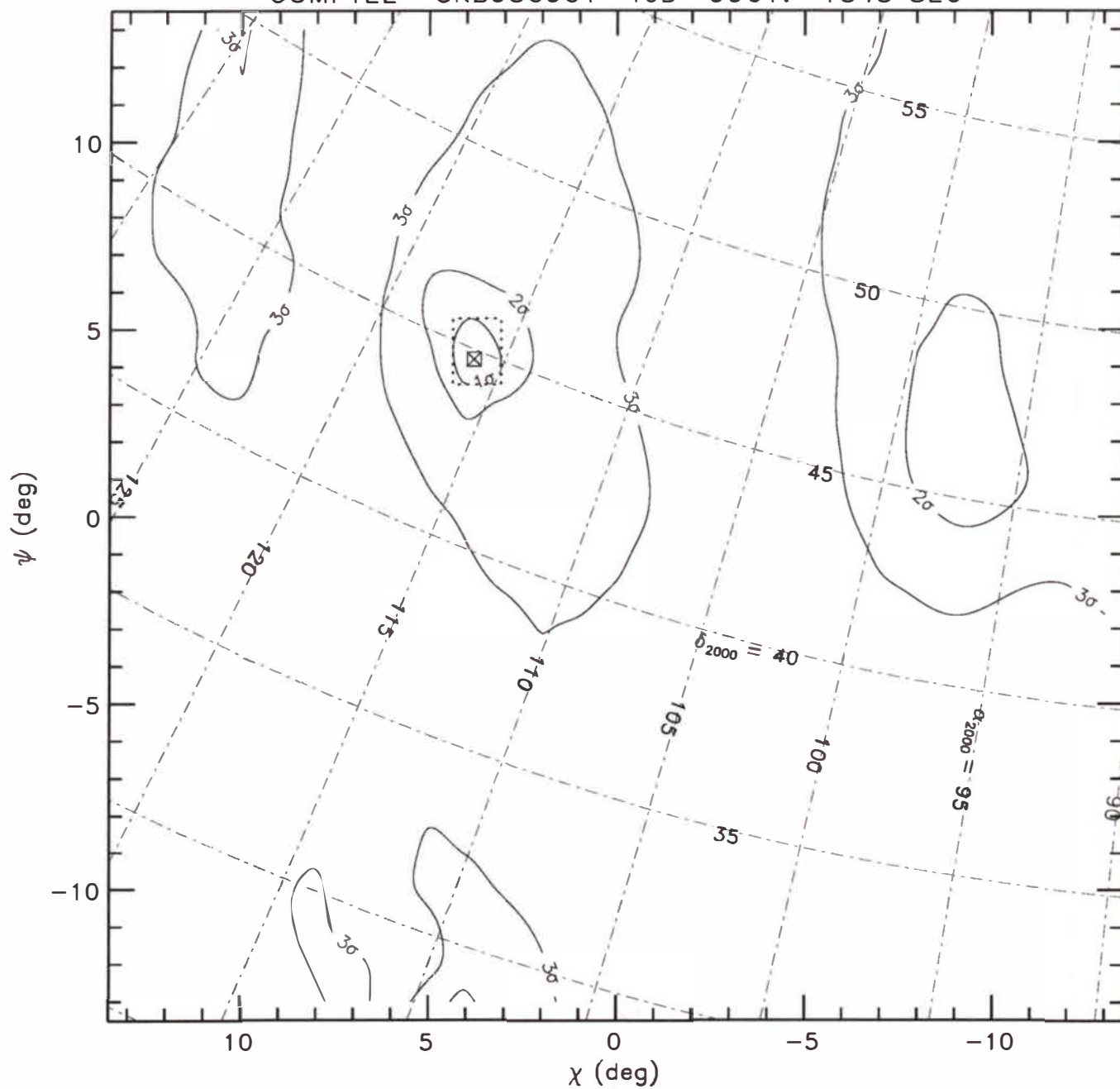
ERRBOX1_POS: [113.9d  44.5d] = [ 7h35m41s  44d31m56s]
ERRBOX2_POS: [114.9d  46.2d] = [ 7h39m31s  46d 9m19s]
ERRBOX3_POS: [116.5d  45.7d] = [ 7h46m11s  45d39m 7s]
ERRBOX4_POS: [115.6d  44.0d] = [ 7h42m12s  44d 2m30s]

NOTE1-----: Please DO NOT reply directly to this message. If you have
NOTE2-----: questions or need more information please contact
NOTE3-----: Tom Harrison (tharriso@nmsu.edu) or
NOTE4-----: Marc Kippen (mkippen@compstel.unh.edu) or
NOTE5-----: Alex Young (ayoung@compstel.unh.edu)

=====
COMPTTEL skymap PostScript follows - cut after dashed line
=====
```

GRB950901: COMPTTEL BURST POSITION NOTICE

COMPTEL- GRB950901 TJD 9961: 1545 SEC



Weak burst; ~ 21 events; Zenith ~43. Deg; UNH-MLM-14221

	CHI,	PSI]	[	α_{2000} ,	δ_{2000}]	
☒	3.80,	4.20]	[	116.07,	44.75]	Max Lik Position
1	3.09,	3.53]	[	114.79,	44.41]	1 σ Error Box Coords
2	3.09,	5.29]	[	115.76,	46.03]	
3	4.36,	5.29]	[	117.42,	45.52]	
4	4.36,	3.53]	[	116.41,	43.91]	

From SAHI@ssl.msfc.nasa.gov Wed Sep 6 13:16 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Wed, 6 Sep 1995 15:16:34 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3773

BATSEARCH PROGRAM

BATSE BURST # 3773
EVENT OF 1995 SEP 1 DAY OF YEAR=244
EVENT CROSSING TIME AT BATSE : 40340. S. OR 11:12:20.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 316.000 13.000
BATSE PEAK COUNTING RATE: 2000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 1/ 9/ 95 IS:
RA= 188.264 DEC= 69.182 DIST= 2.506 AU
BATSE-ULYSSES DISTANCE = 374854770. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 89.90 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 2.10 SECS.
CROSSING TIME AT ULYSSES IS 40342. S. OR 11:12:22 +/- 267.12 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 1/ 9/ 95 IS:
RA= 203.937 DEC= -10.119 DIST= 2.022 AU
MARS-BATSE DISTANCE = 302563136. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 66.43 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 403.53 SECS.
CROSSING TIME AT MARS IS 40744. S. OR 11:19:03 +/- 166.73 SECONDS

BATSE BURST TRIGGER

NO.: 3773

TIME: TJD=9961 SECONDS=40340

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=87.9 AZIMUTH=142.5 ERROR=6.1 DEGREES

COMMENTS:

BURST. DOUBLE PULSE, DUR.~100 SECS. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3773	950901	9961	40340	2000	316	+13	100

14 / 9 / 95

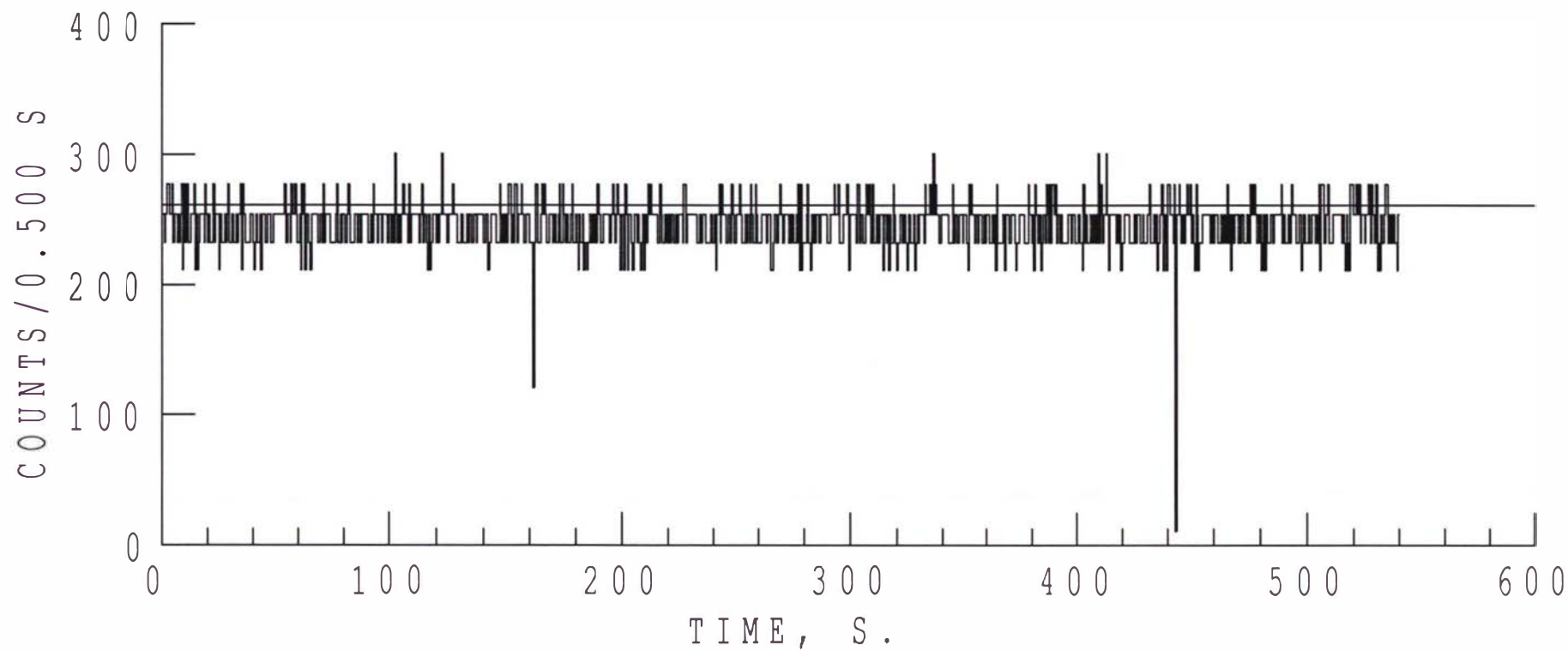
ULYSSES RT

1 / 9 / 95 40068.195 s

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From SAHI@ssl.msfc.nasa.gov Tue Sep 5 12:09 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Tue, 5 Sep 1995 13:35:13 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3774

BATSEARCH PROGRAM

NO

BATSE BURST # 3774
EVENT OF 1995 SEP 1 DAY OF YEAR=244
EVENT CROSSING TIME AT BATSE : 85165. S. OR 23:39:25.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 264.000 69.000
BATSE PEAK COUNTING RATE: 5000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 1/ 9/ 95 IS:
RA= 188.581 DEC= 68.990 DIST= 2.510 AU
BATSE-ULYSSES DISTANCE = 375474848. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=154.67 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1132.04 SECS.
CROSSING TIME AT ULYSSES IS 84033. S. OR 23:20:32 +/- 125.84 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 1/ 9/ 95 IS:
RA= 203.937 DEC= -10.119 DIST= 2.022 AU
MARS-BATSE DISTANCE = 302563136. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 90.69 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -12.14 SECS.
CROSSING TIME AT MARS IS 85153. S. OR 23:39:12 +/- 175.02 SECONDS

BATSE BURST TRIGGER

NO.: 3774

TIME: TJD=9961 SECONDS=85165

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=66.4 AZIMUTH=79.2 ERROR=7.15 DEGREES

COMMENTS:

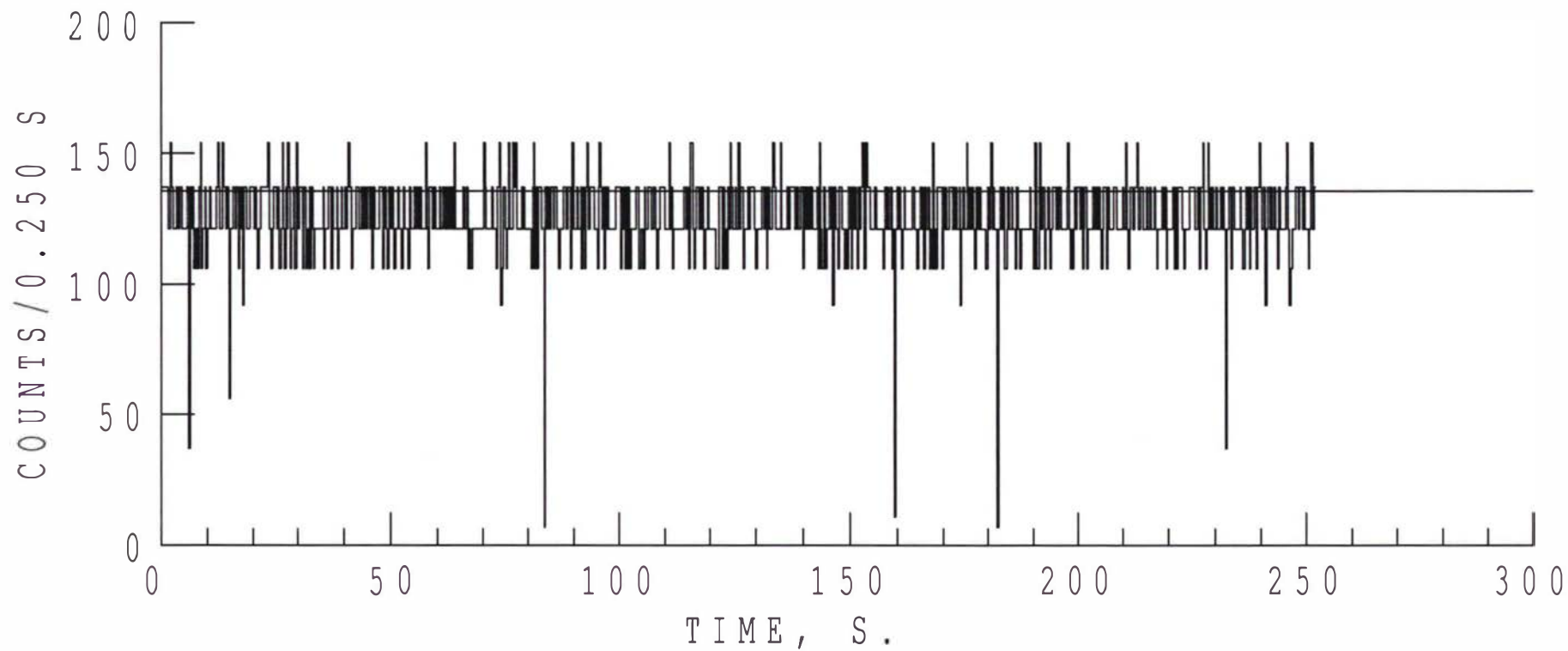
BURST, SINGLE SPIKE, DUR.~0.3 SECS. NOT VISIBLE ABOVE 300 KEV.

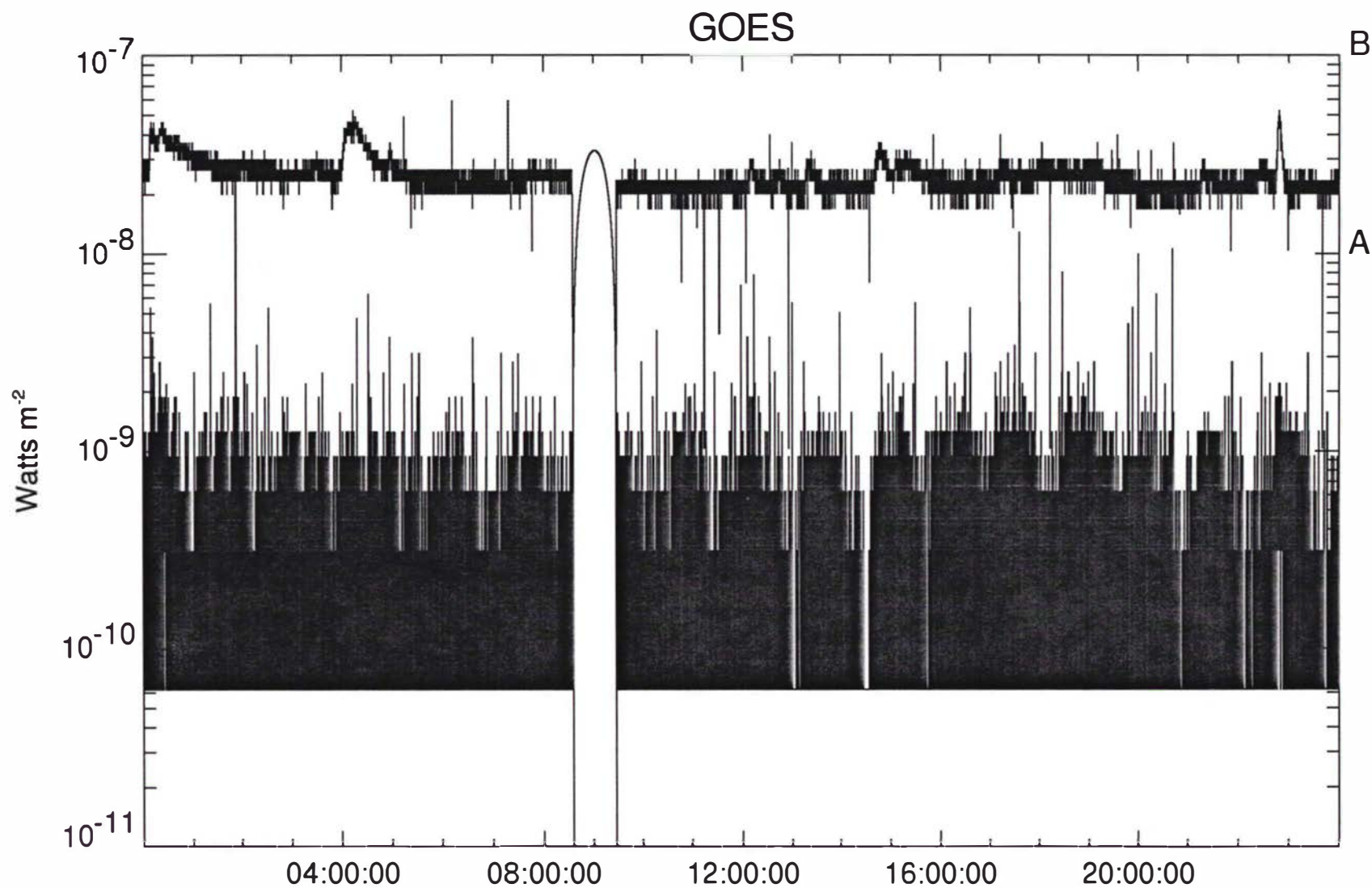
BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3774	950901	9961	85165	5000	264	+69	.3

6 / 9 / 95

ULYSSES RT
1 / 9 / 95 83916.180 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





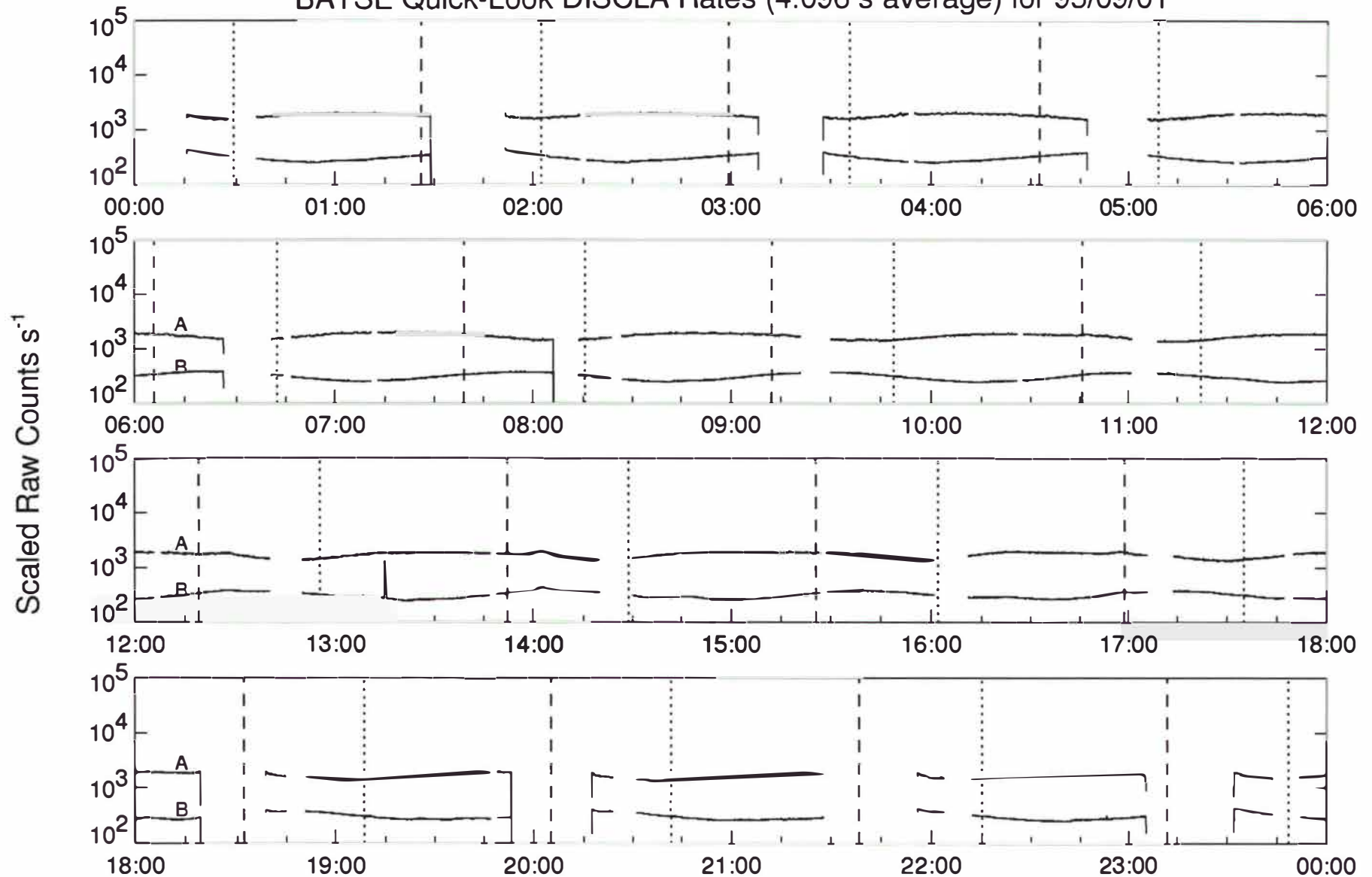
Data Start: 95/09/01, 0000:02

Plot created: 95/09/03, 0529

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/01



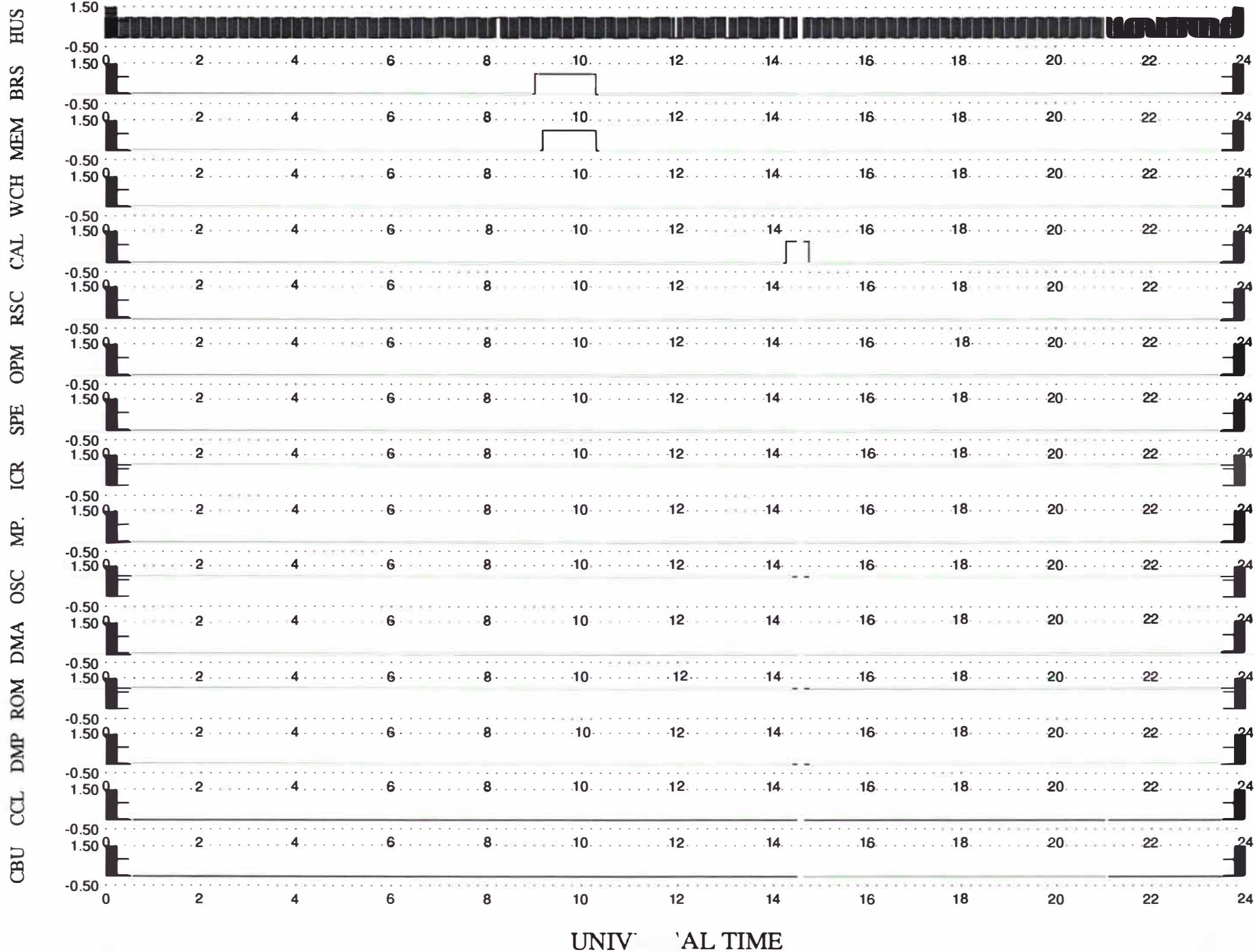
Current Time: 95/09/03, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

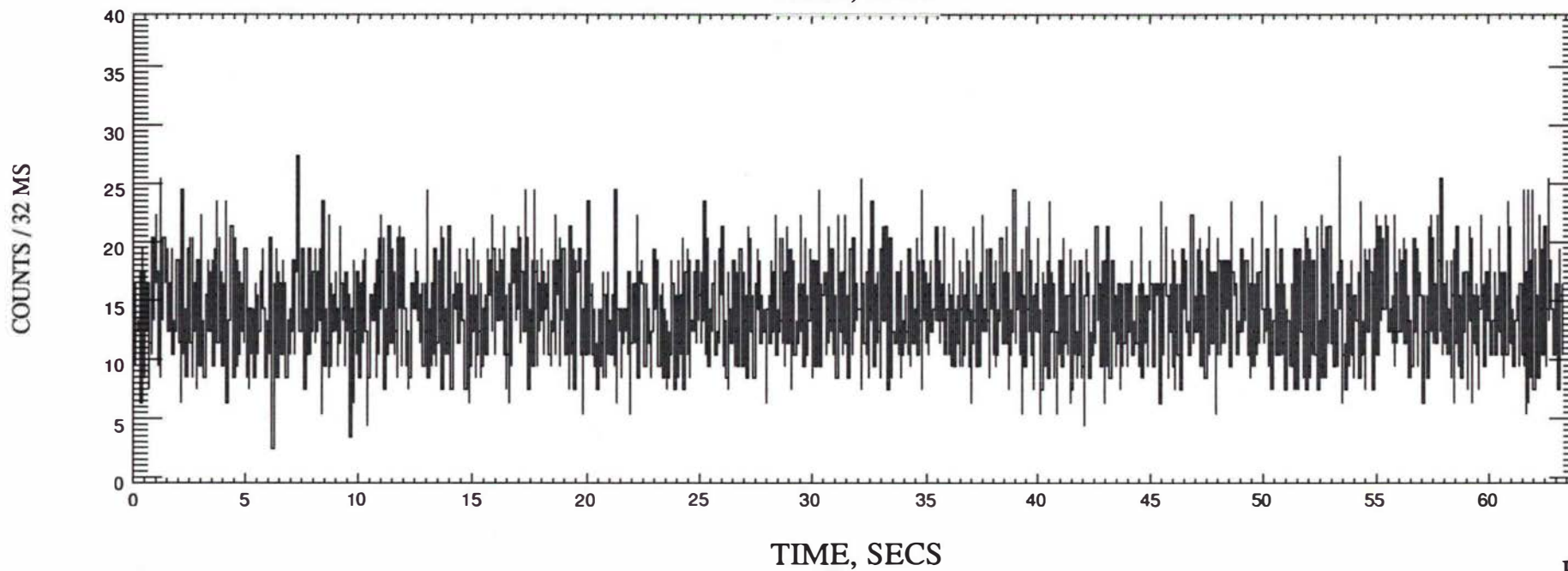
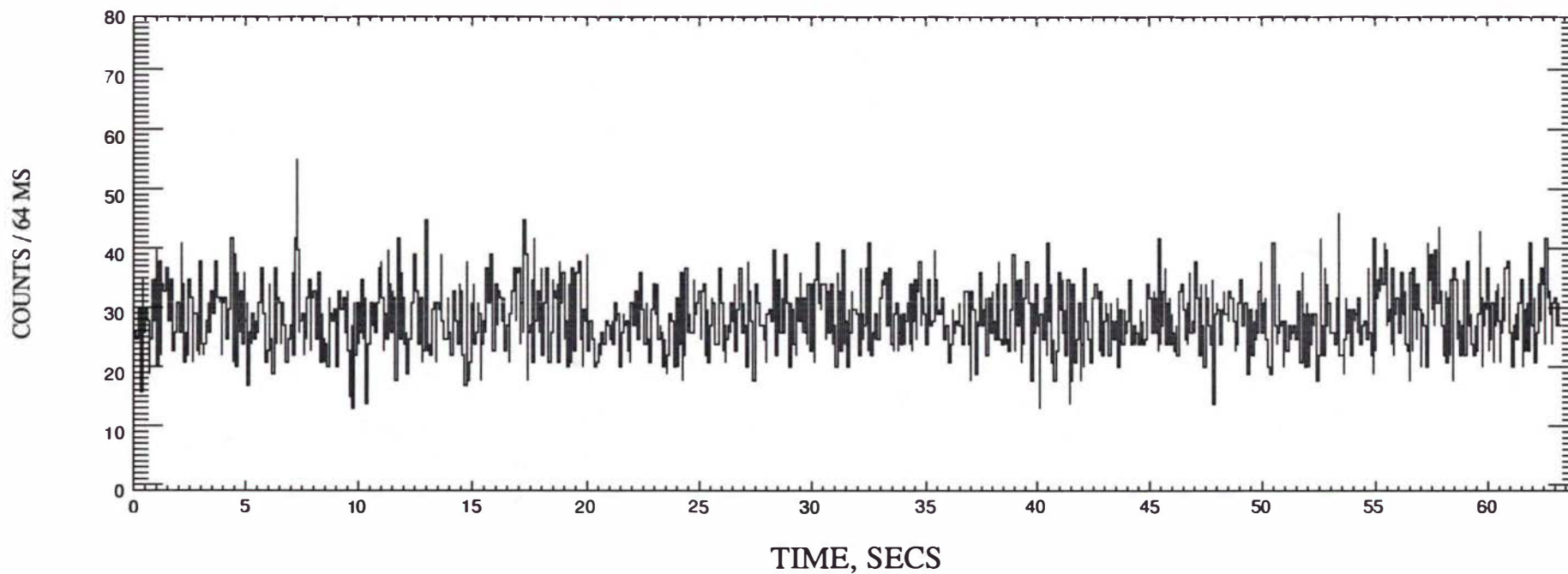
HUS MODES EDR day 244, year 1995 to day 244, year 1995
BURST NUMBER 13

1/25/96



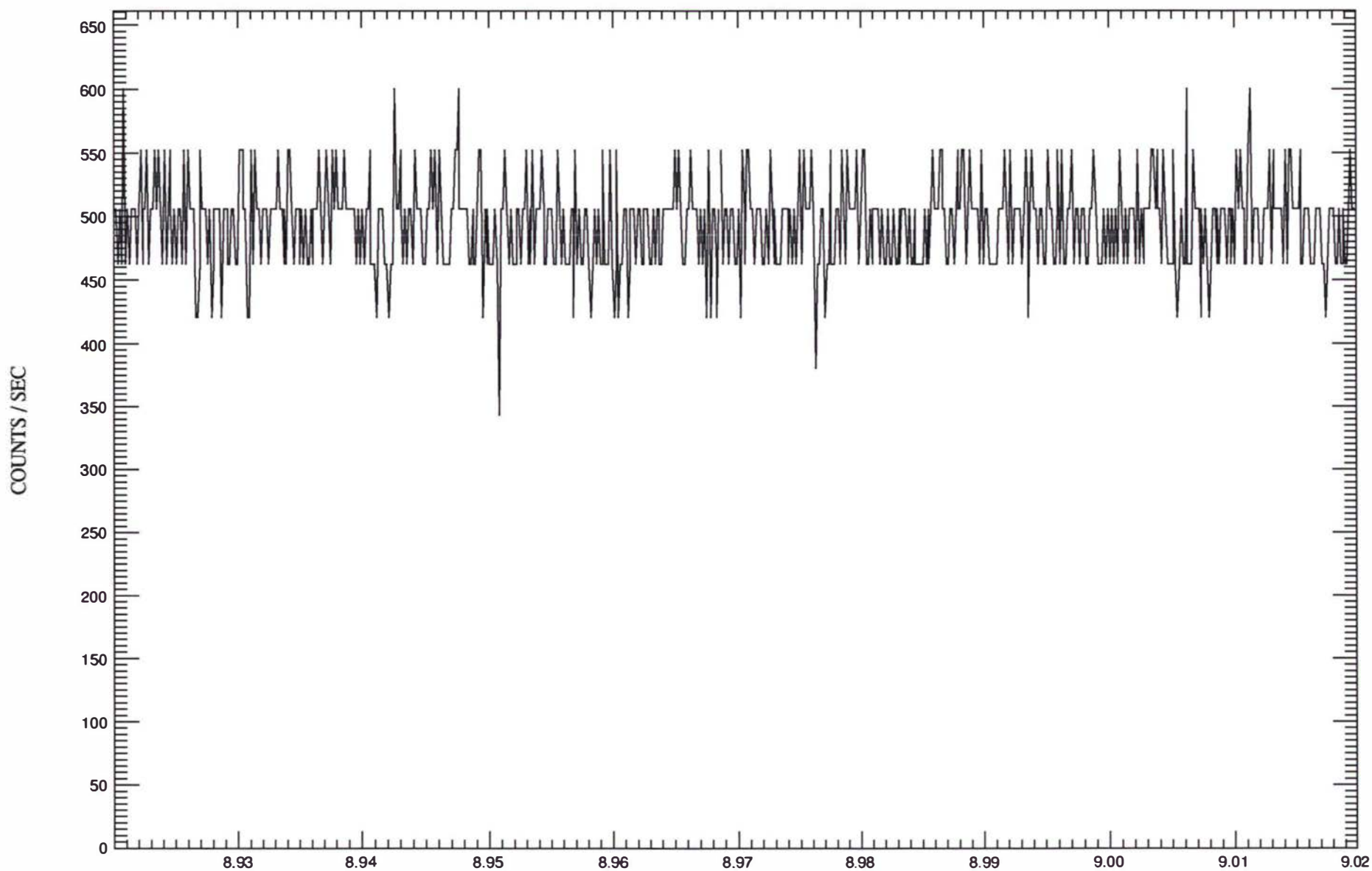
HUS 2A TRIGGERED DATA EDR day 244, year 1995
Burst Counter 13 at UT= 8.972684393989 h=32301.664 s 08:58:21.664

1/25/96



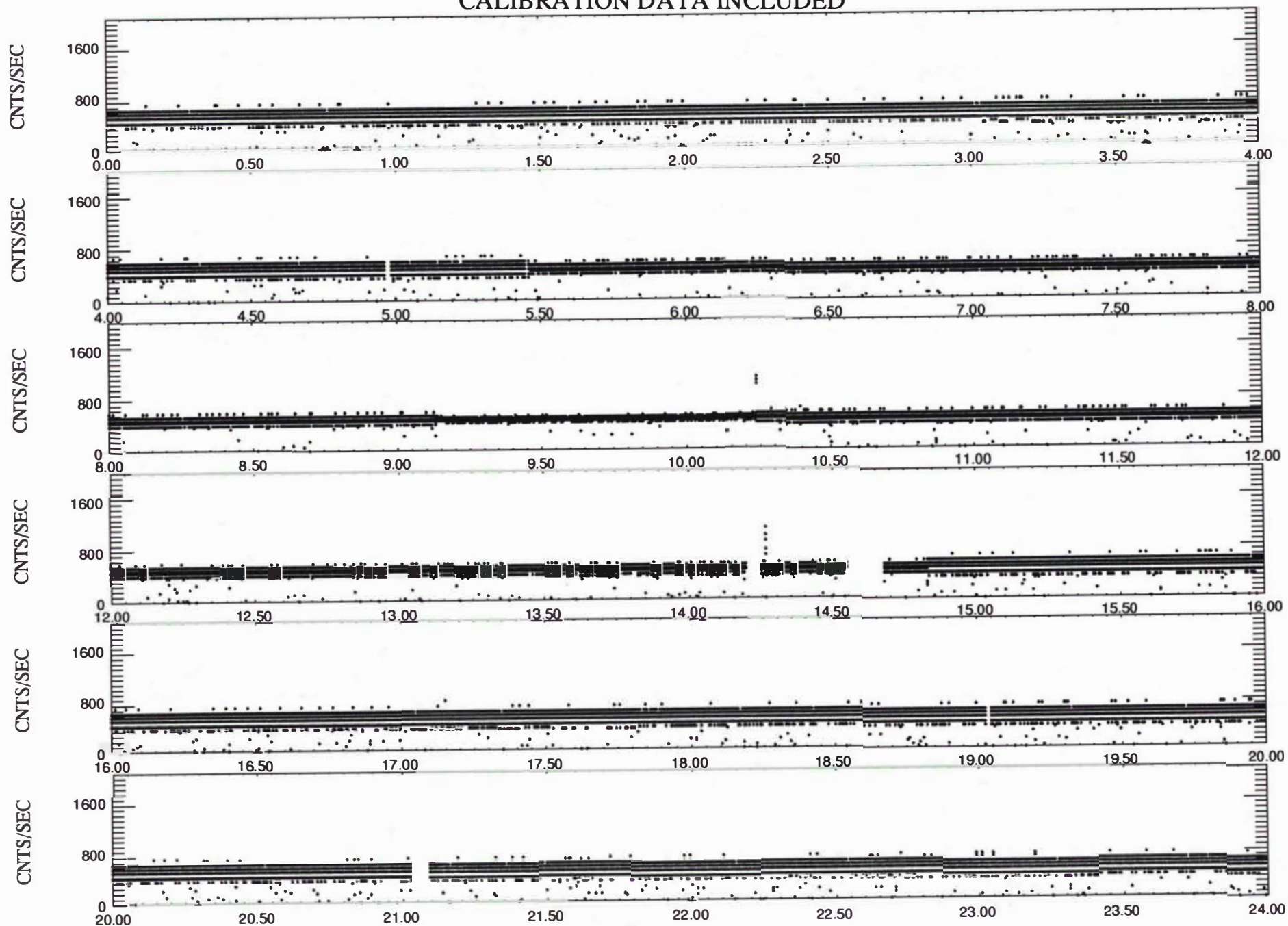
HUS 2A, MODE 1, NOT AVERAGED QEDR day 244, year 1995 to day 244, year 1995
CALIBRATION DATA INCLUDED

9/6/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 244, year 1995 to day 244, year 1995
CALIBRATION DATA INCLUDED

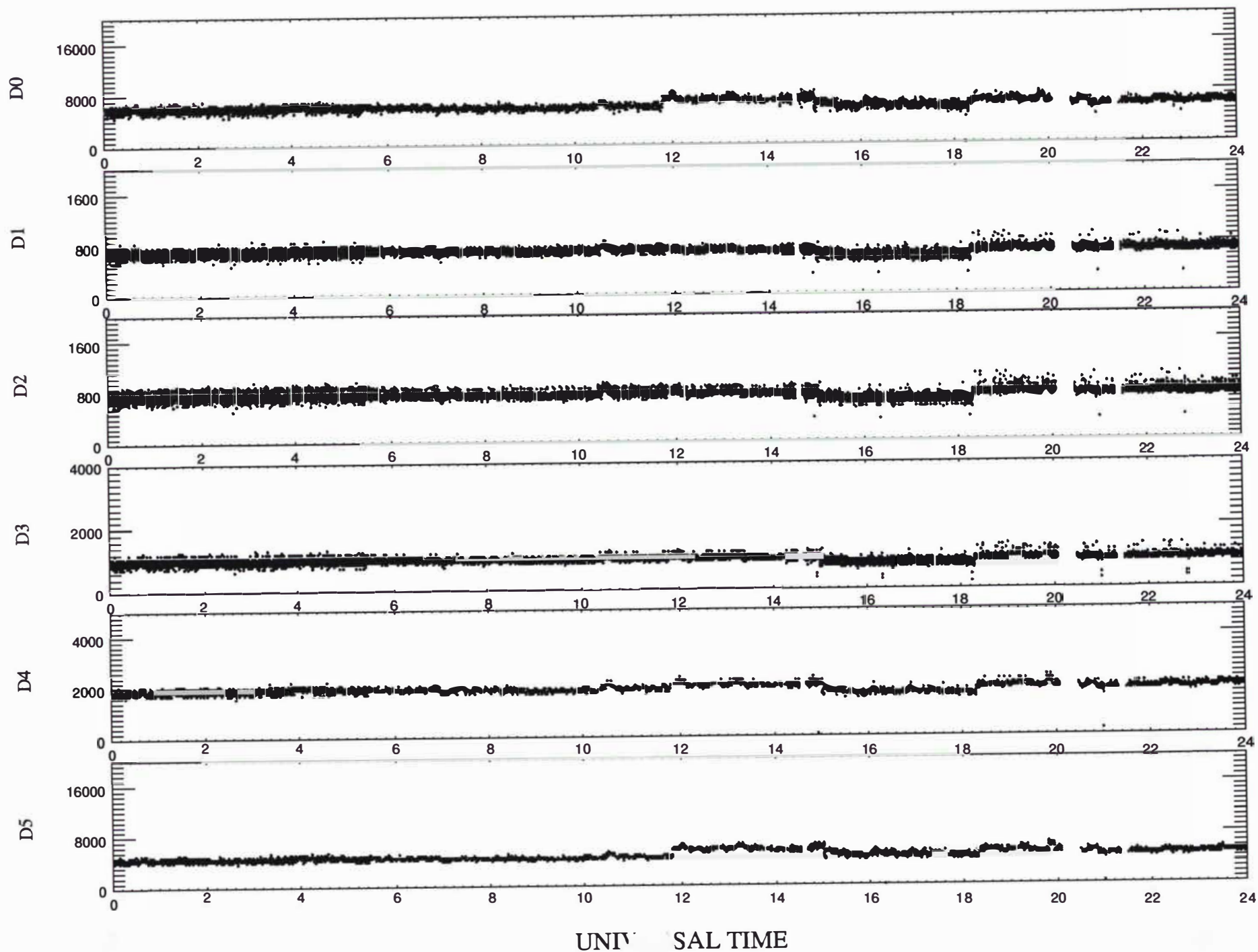
1/25/96

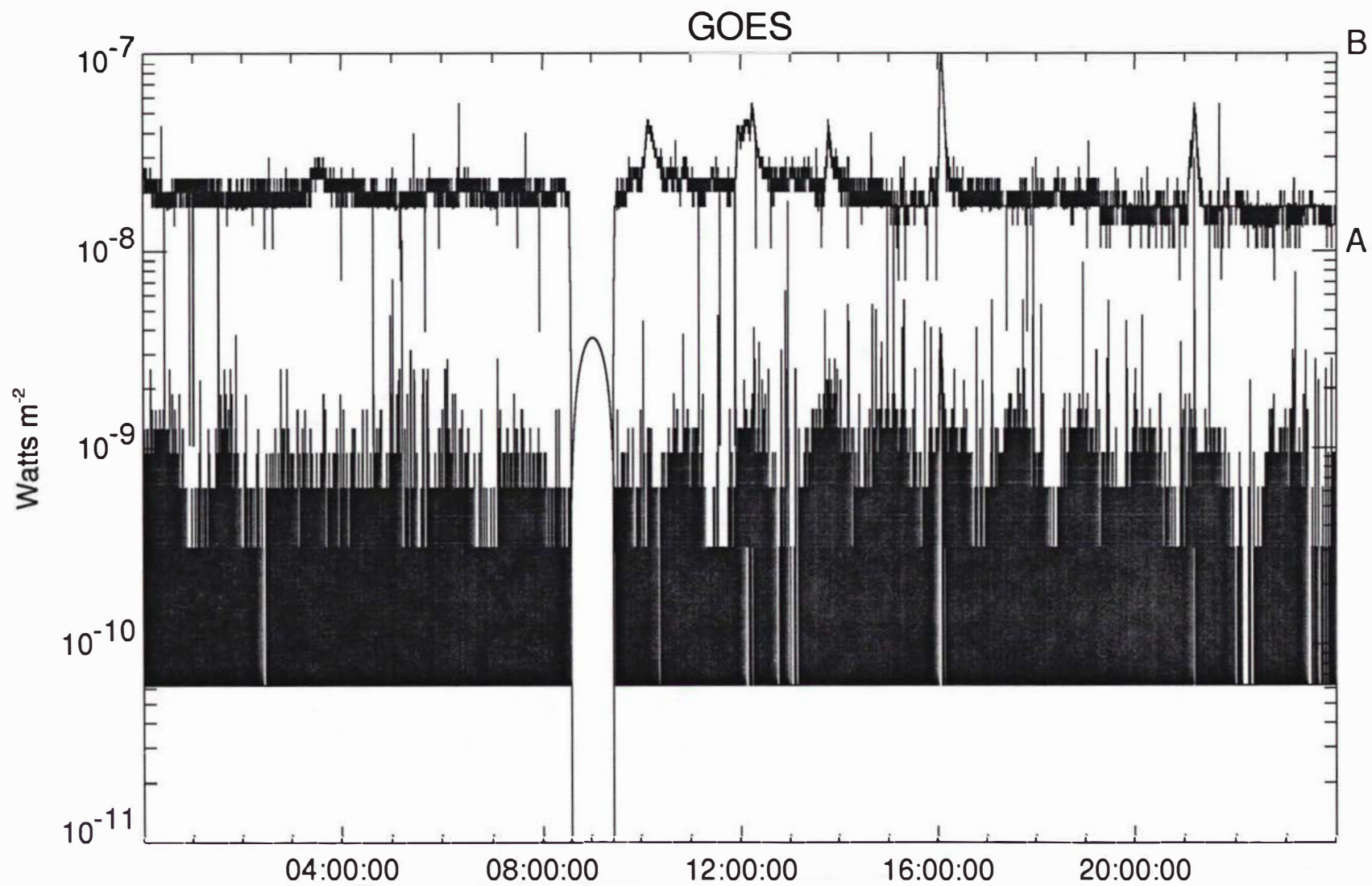


UNIV AL TIME

HUS 2B COUNTS / SEC QEDR day 244, year 1995 to day 244, year 1995

9/6/95





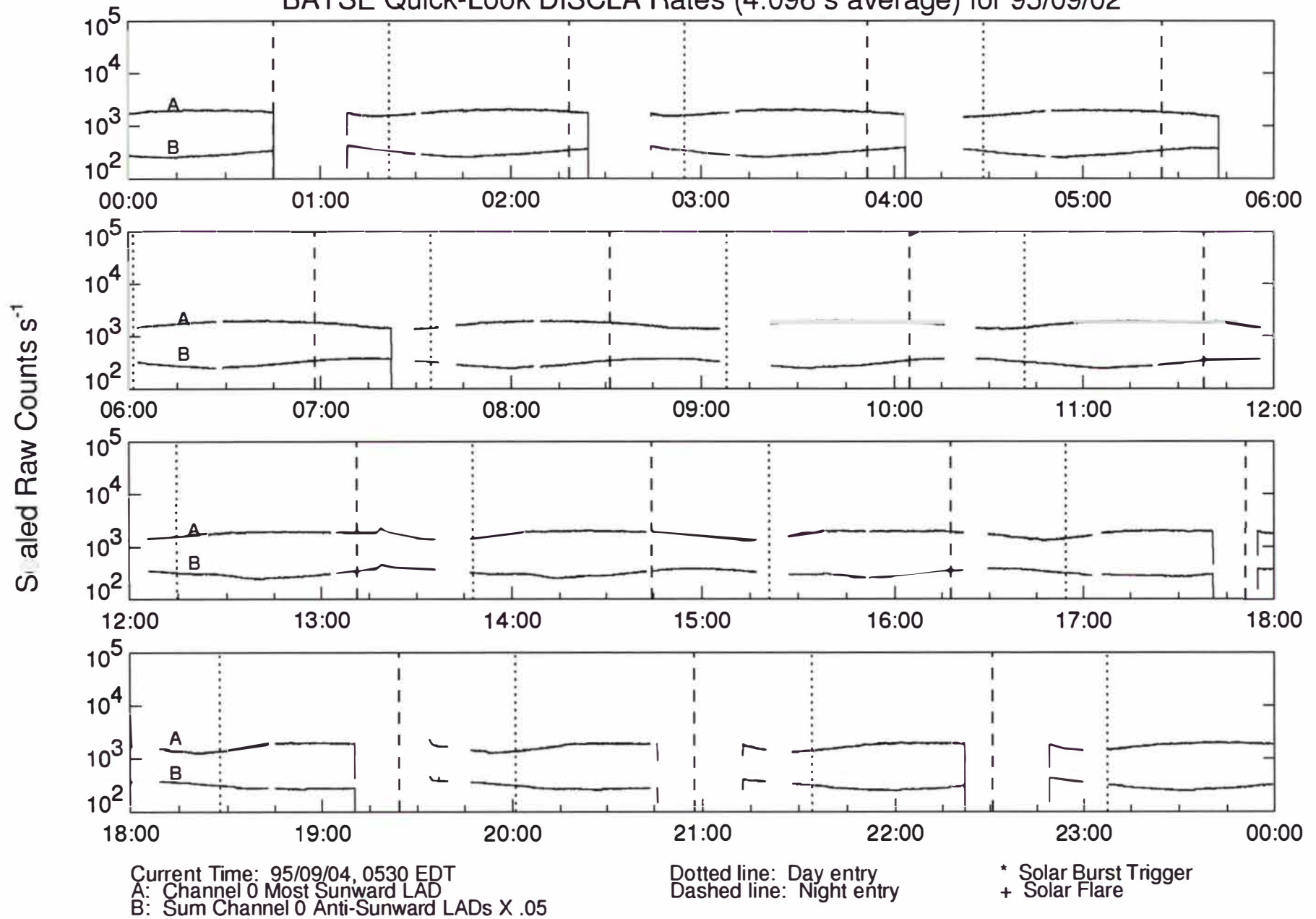
Data Start: 95/09/02, 0000:00

Plot created: 95/09/04, 0529

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

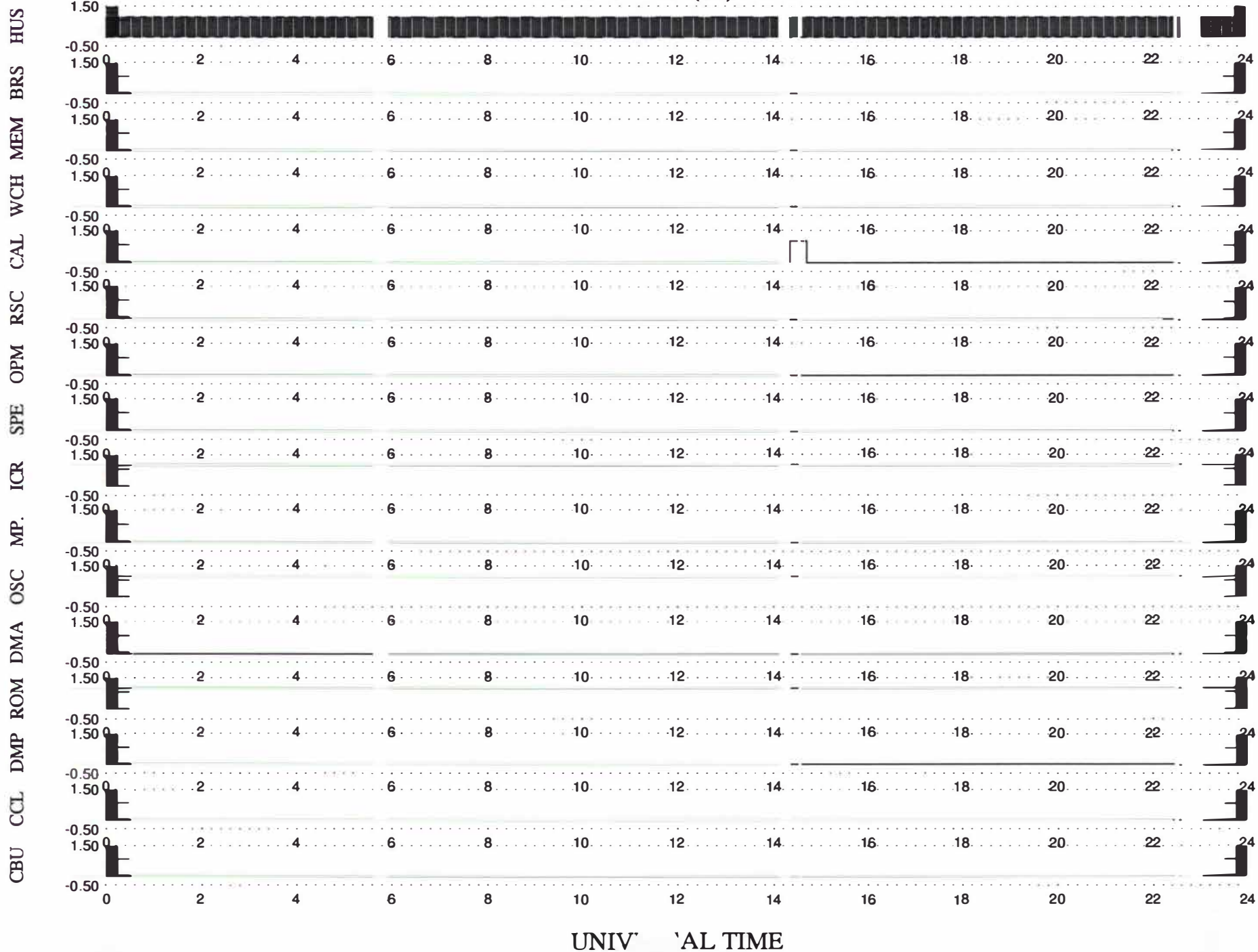
Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/02



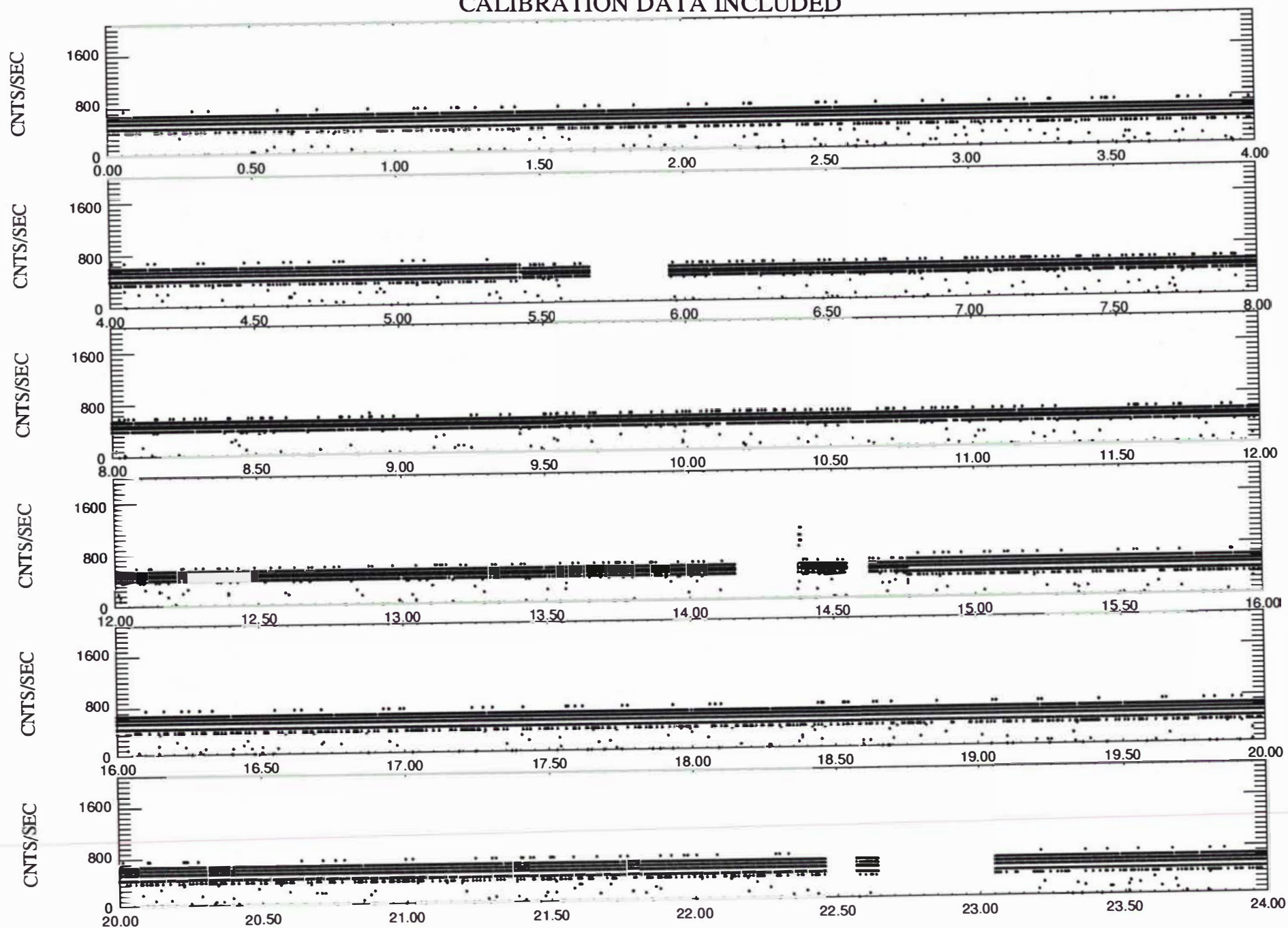
HUS MODES EDR day 245, year 1995 to day 245, year 1995
NO BURST (13)

1/25/96

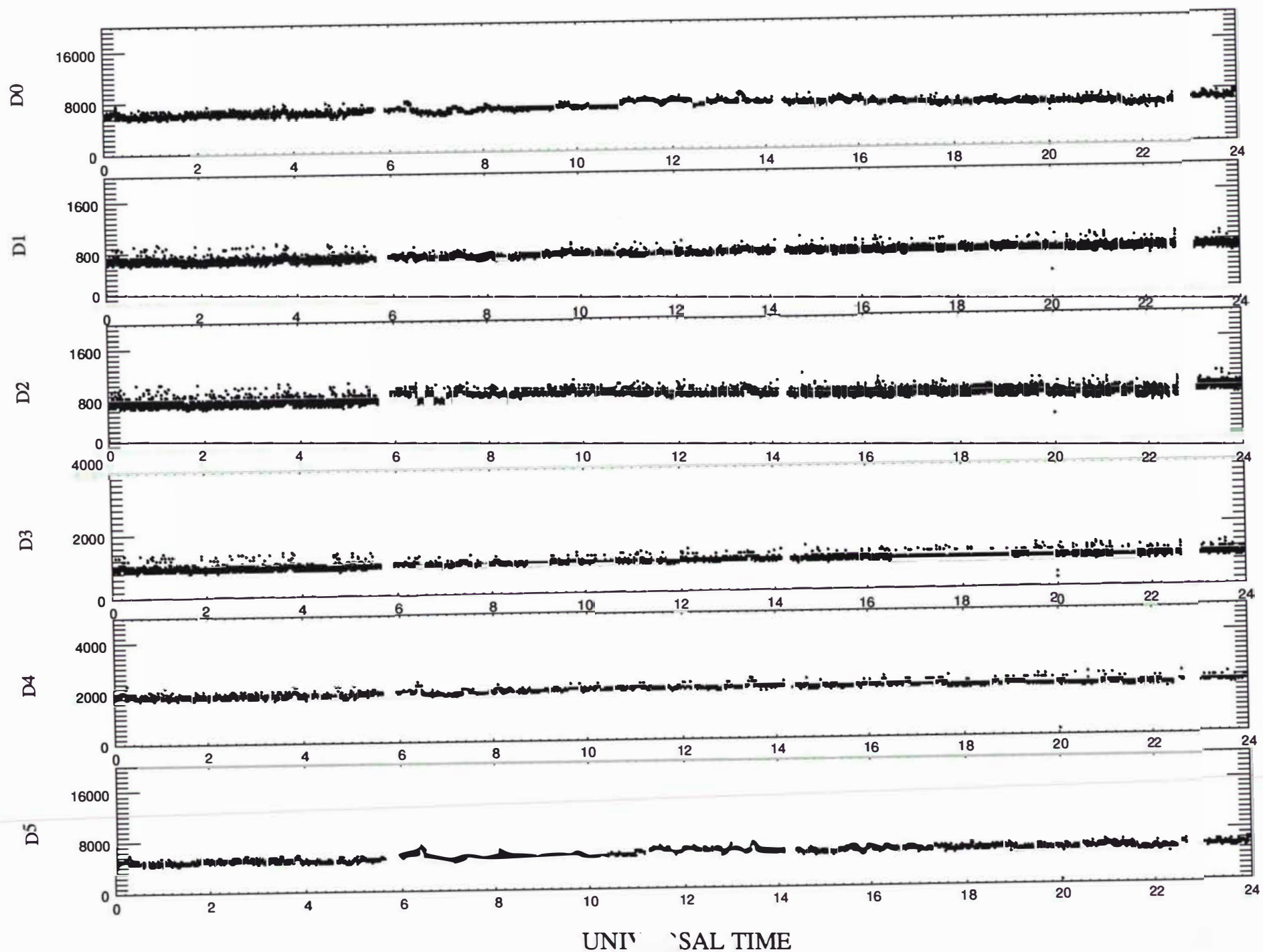


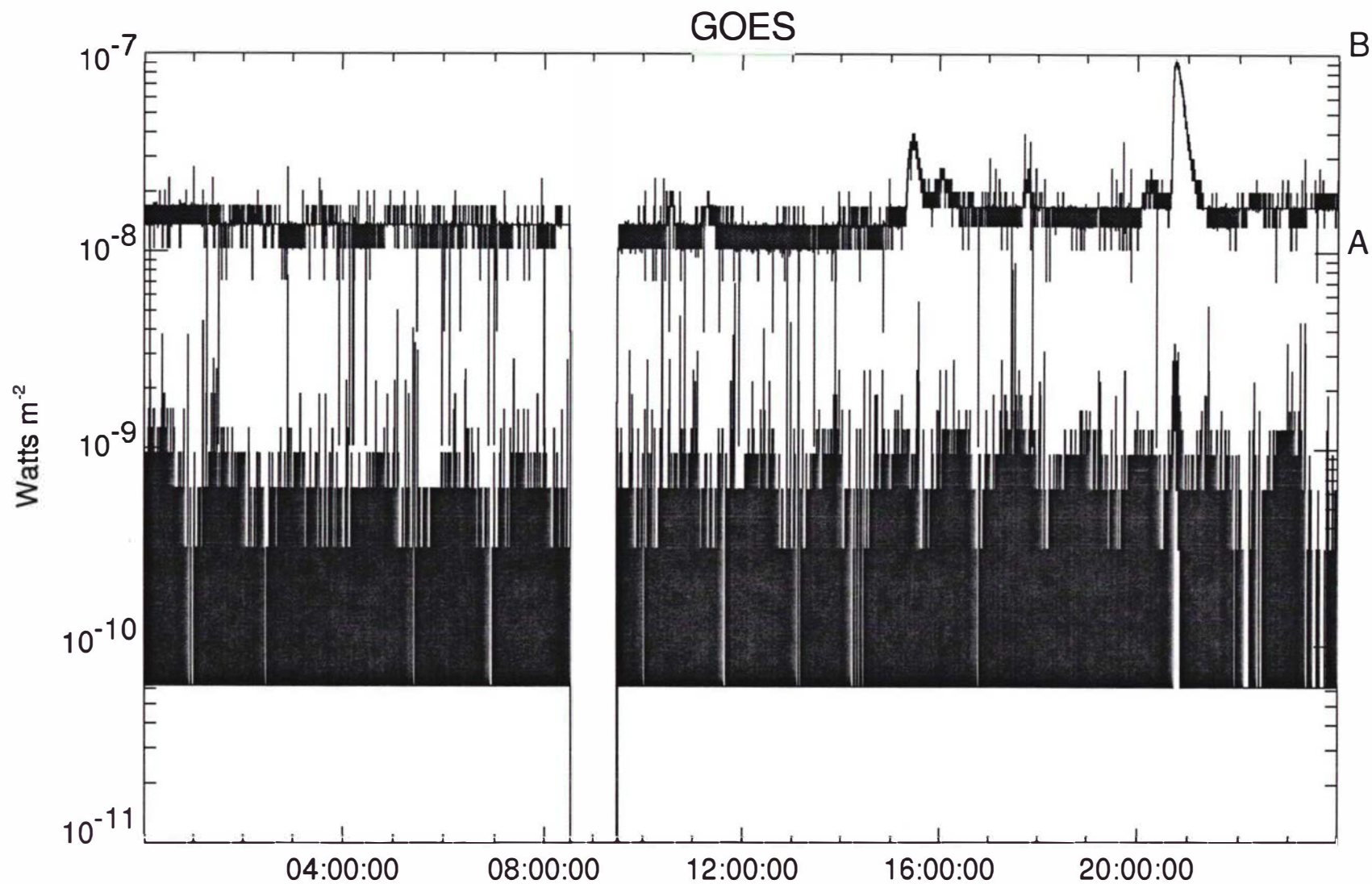
HUS 2A, MODE 1, NOT AVERAGED EDR day 245, year 1995 to day 245, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME





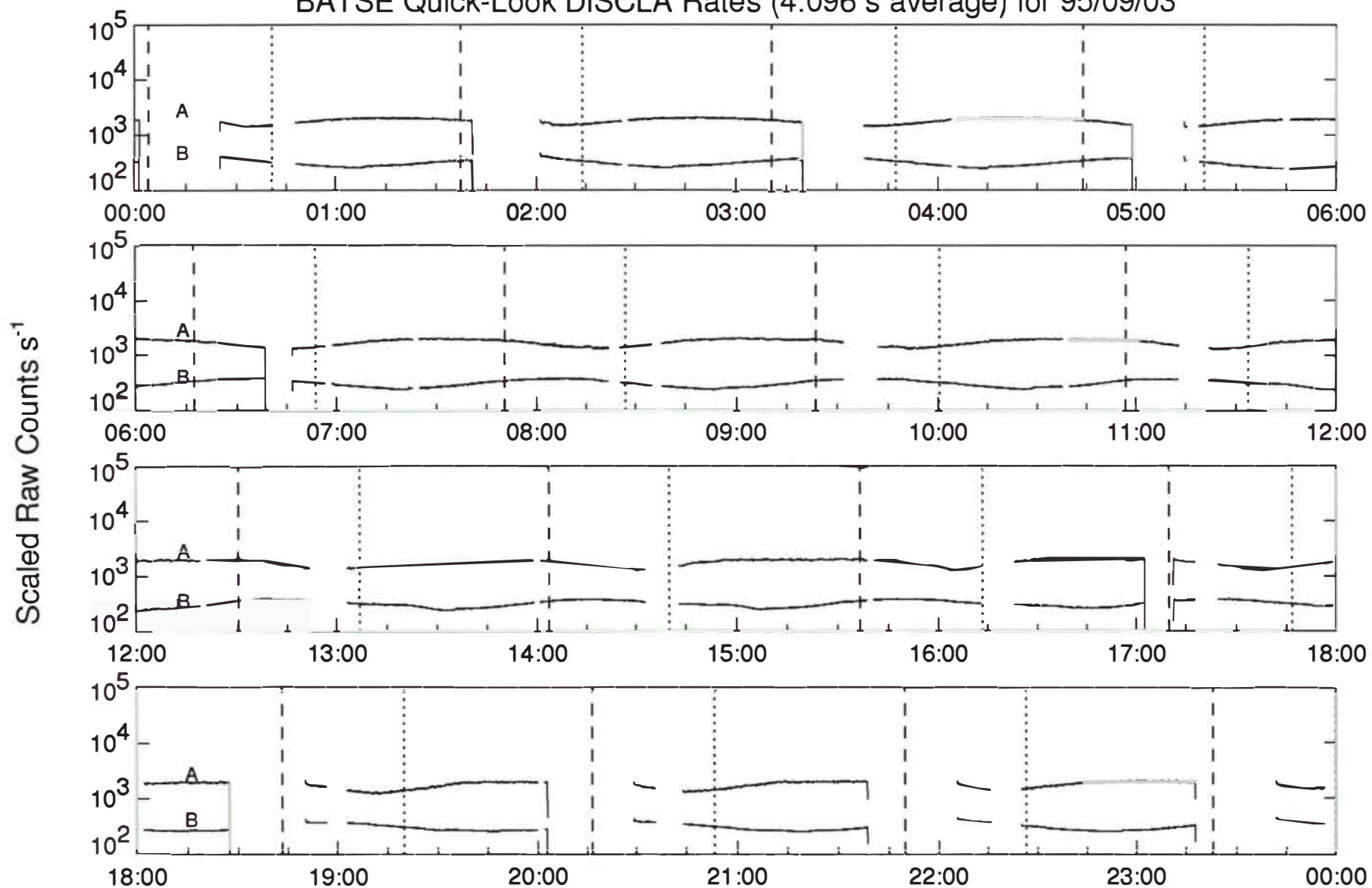
Data Start: 95/09/03, 0000:01

Plot created: 95/09/05, 0529

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/03



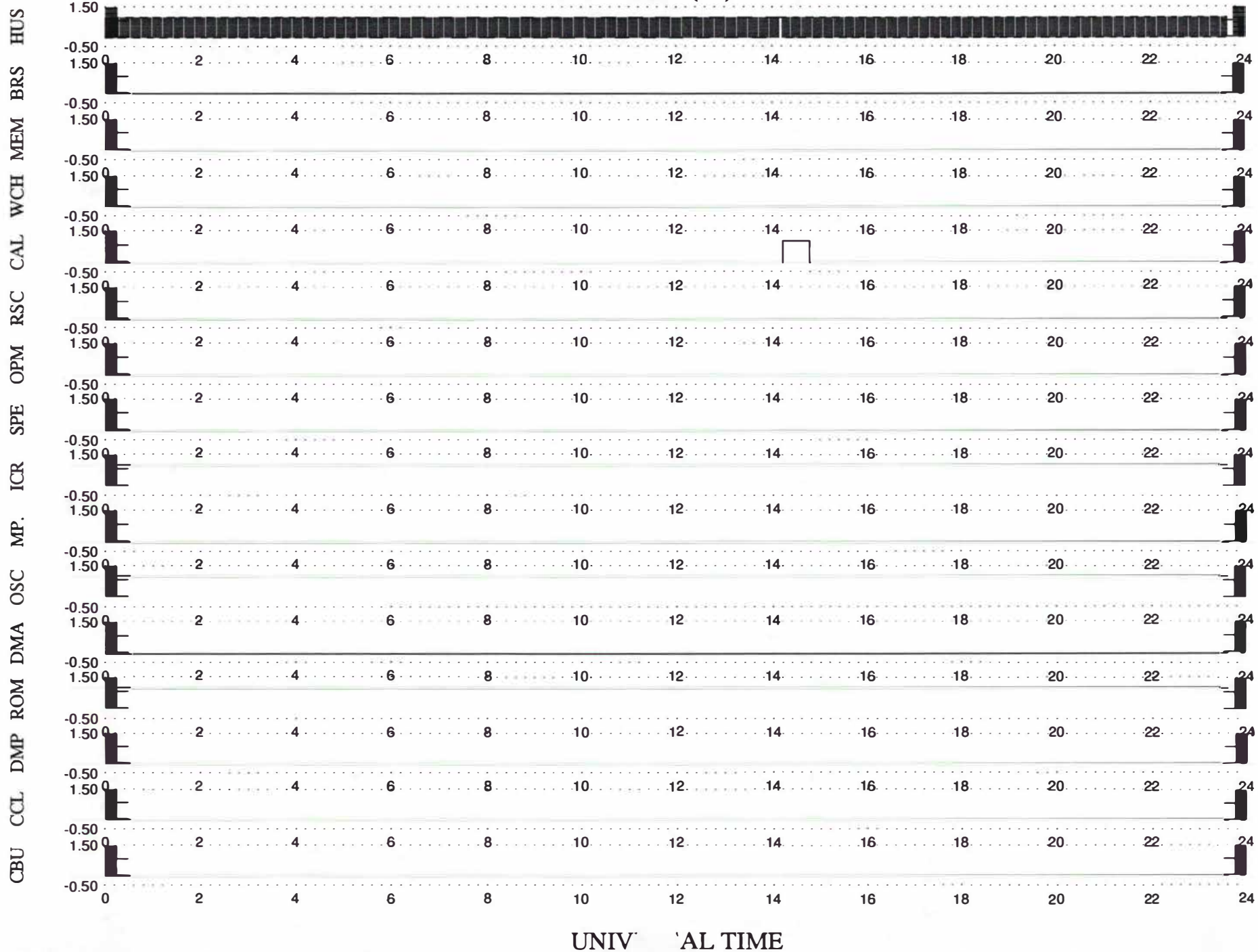
Current Time: 95/09/05, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

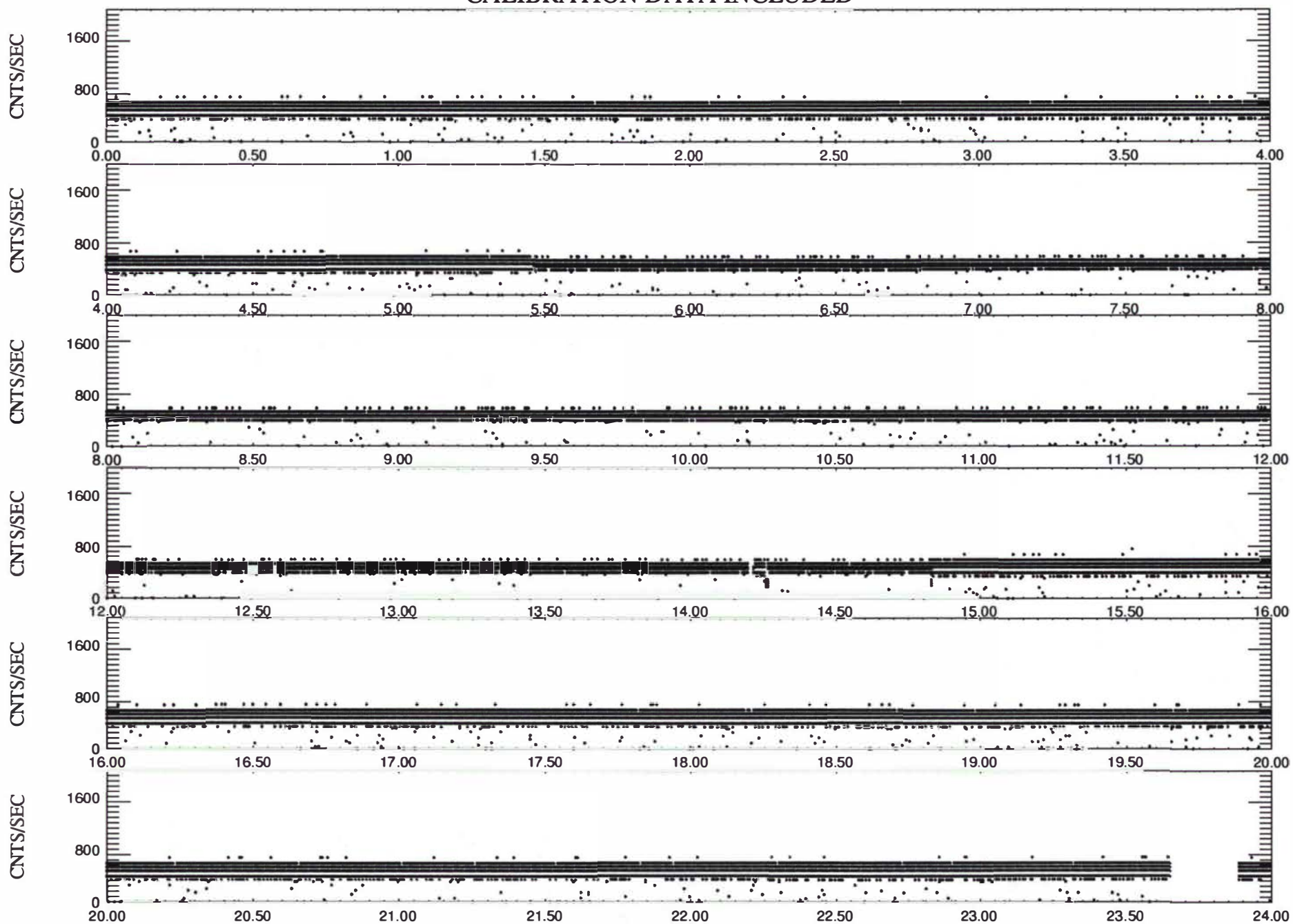
HUS MODES EDR day 246, year 1995 to day 246, year 1995
NO BURST (13)

1/25/96

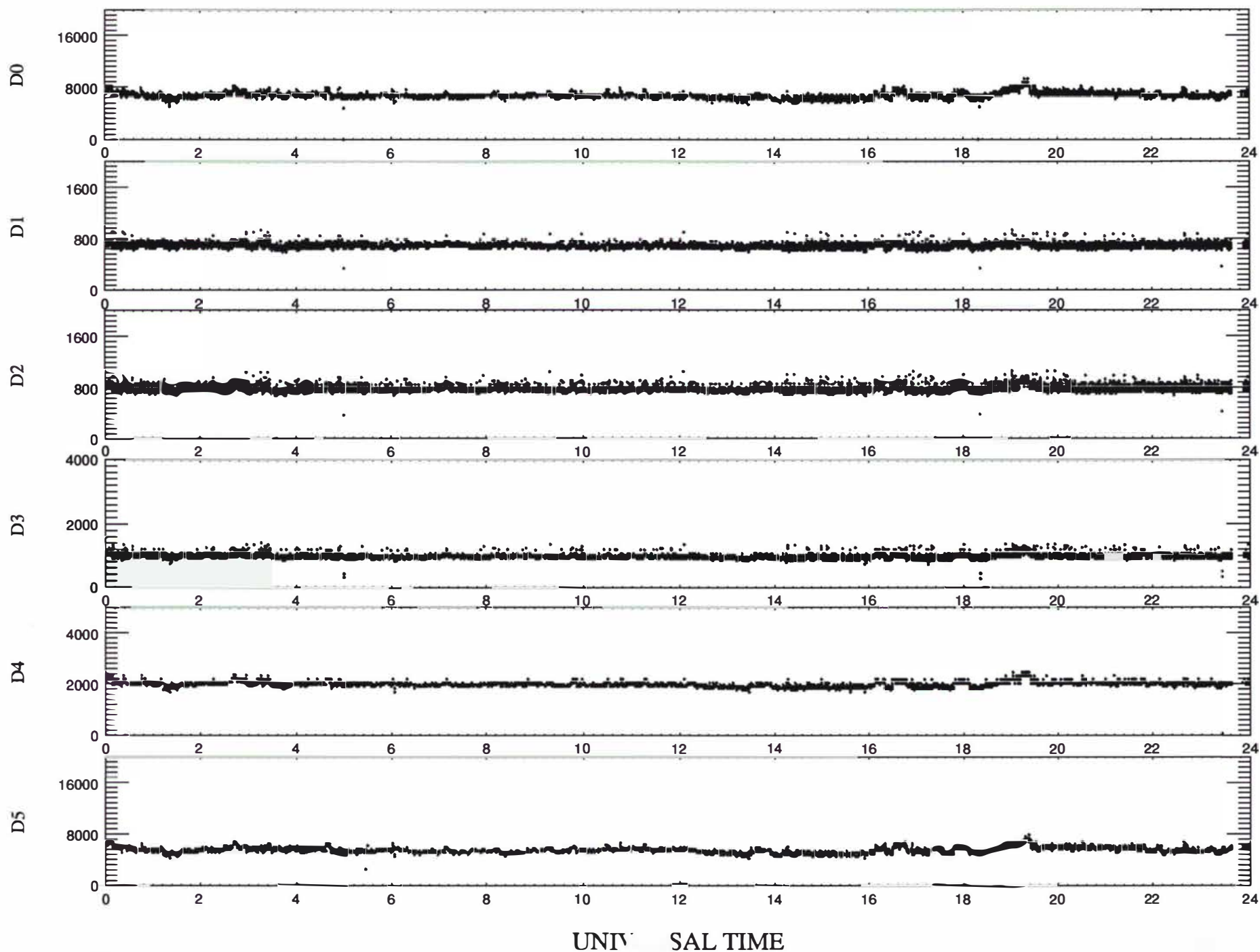


HUS 2A, MODE 1, NOT AVERAGED EDR day 246, year 1995 to day 246, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



From DEAL@ssl.msfc.nasa.gov Wed Sep 6 10:14 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Wed, 6 Sep 1995 12:14:44 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3775

BATSEARCH PROGRAM

NO

BATSE BURST # 3775
EVENT OF 1995 SEP 4 DAY OF YEAR=247
EVENT CROSSING TIME AT BATSE : 27780. S. OR 07:43:00.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 170.000 64.000
BATSE PEAK COUNTING RATE: 2000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 4/ 9/ 95 IS:
RA= 189.947 DEC= 68.145 DIST= 2.528 AU
BATSE-ULYSSES DISTANCE = 378241570. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=170.97 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1246.03 SECS.
CROSSING TIME AT ULYSSES IS 26534. S. OR 07:22:13 +/- 65.47 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 4/ 9/ 95 IS:
RA= 205.785 DEC= -10.861 DIST= 2.036 AU
MARS-BATSE DISTANCE = 304623456. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=100.36 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -182.78 SECS.
CROSSING TIME AT MARS IS 27597. S. OR 07:39:57 +/- 170.76 SECONDS

BATSE BURST TRIGGER

NO.: 3775

TIME: TJD=9964 SECONDS=27780

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=61.2 AZIMUTH=41.0 ERROR=4.97 DEGREES

COMMENTS:

BURST LASTING ~ 1s. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3775	950904	9964	27780	2000	170	+64	1

6 / 9 / 95

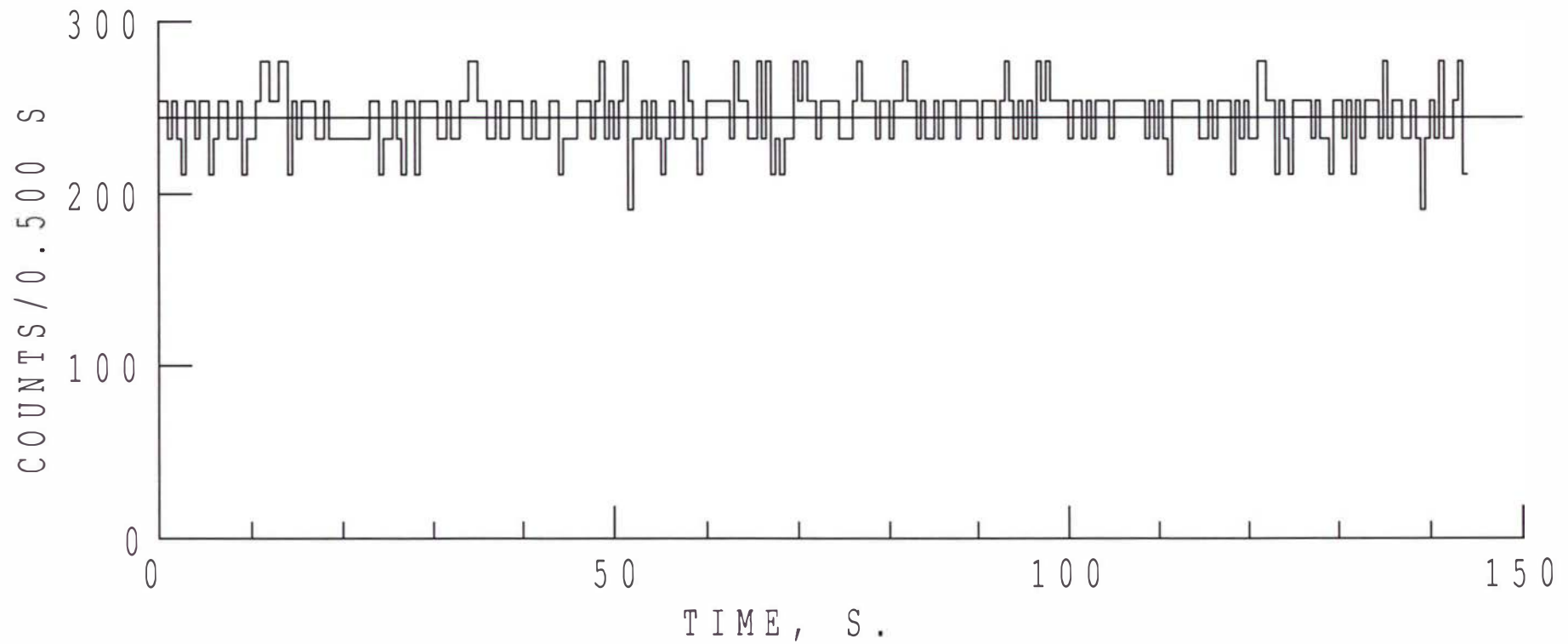
ULYSSES RT

4 / 9 / 95 26460.408 s

0 - 0 keV

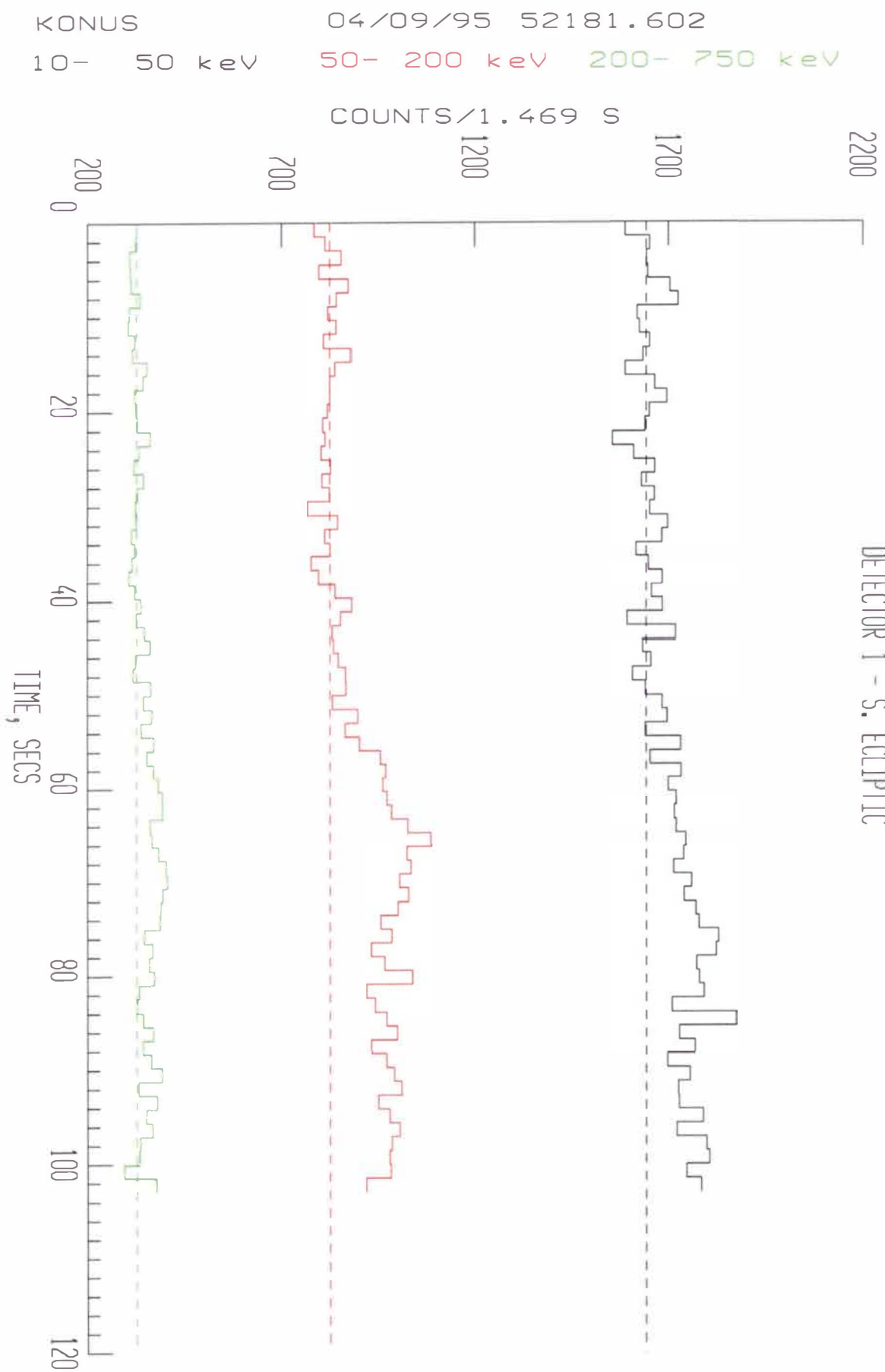
N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



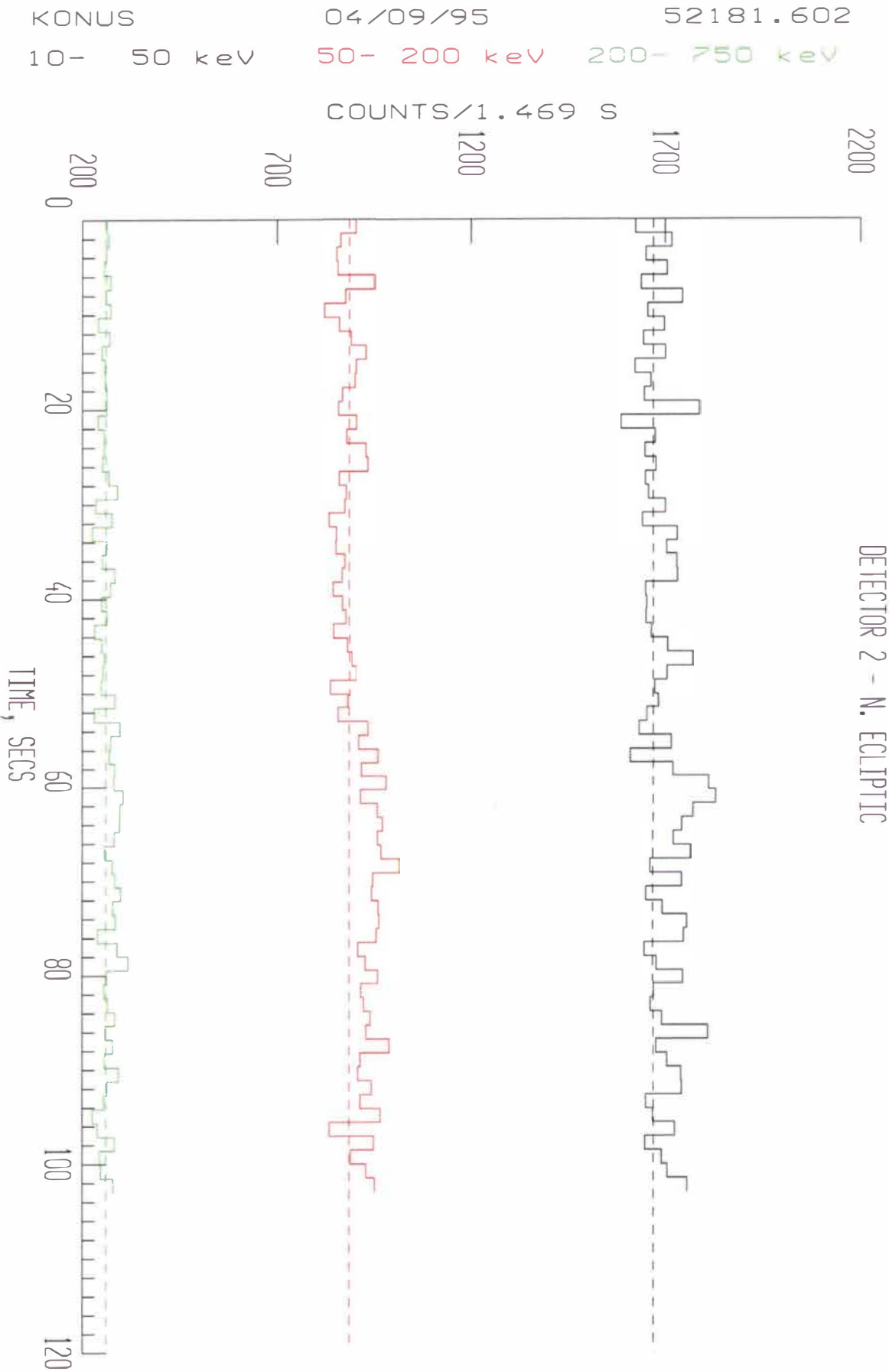
30/08/2011

DETECTOR 1 - S. ECLIPTEIC



30/08/2011

DETECTOR 2 - N. ECLIPTEIC



KONUS

26 / 01 / 00

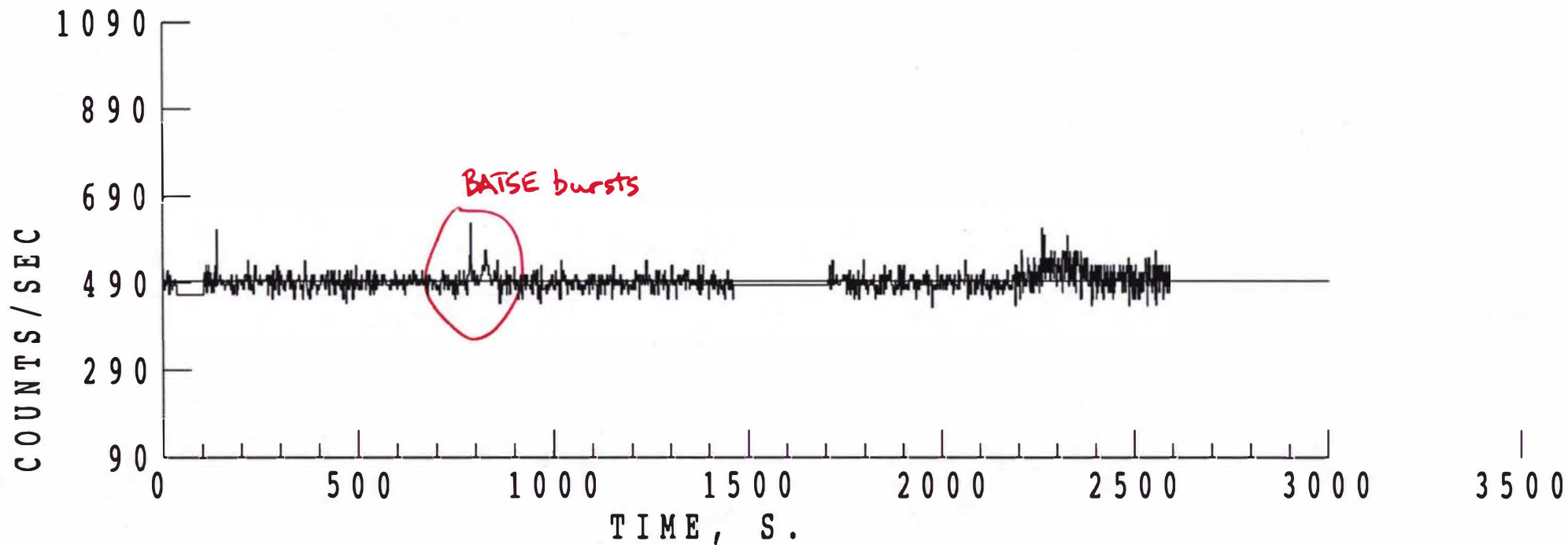
ULYSSES RT

04/09/95 50940.328 s

INTERVALS REGROUPED BY 4

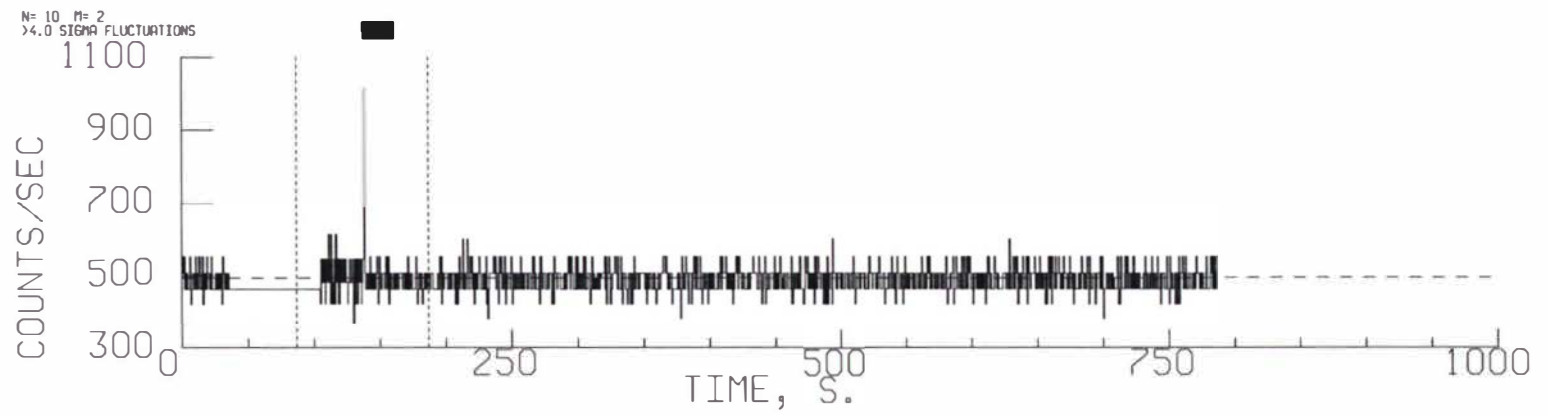
0 - 0 keV

B= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



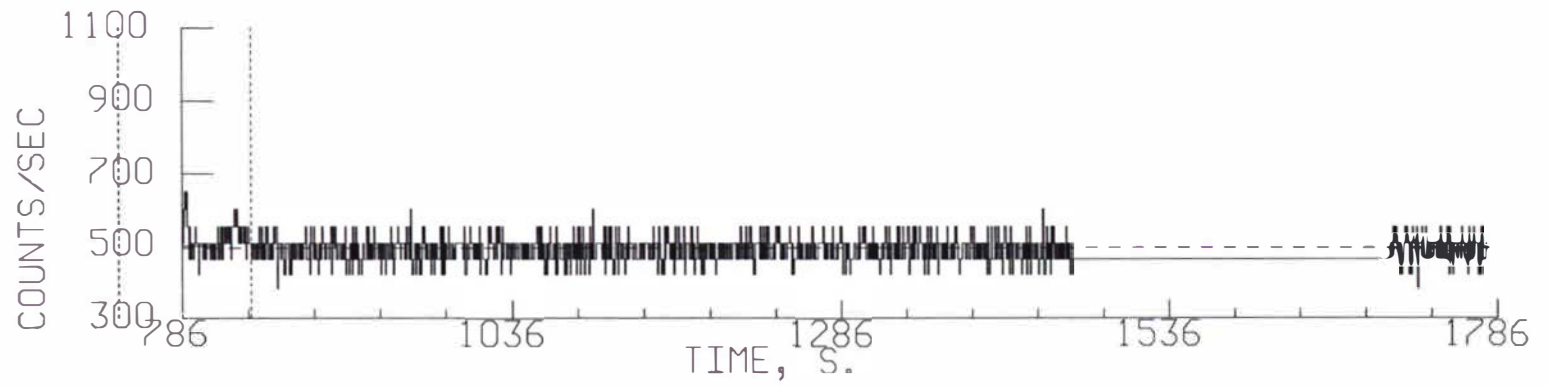
ULYSSES RT
4/ 9/95 50940.328 s
21- 142 keV

30/ 8/11



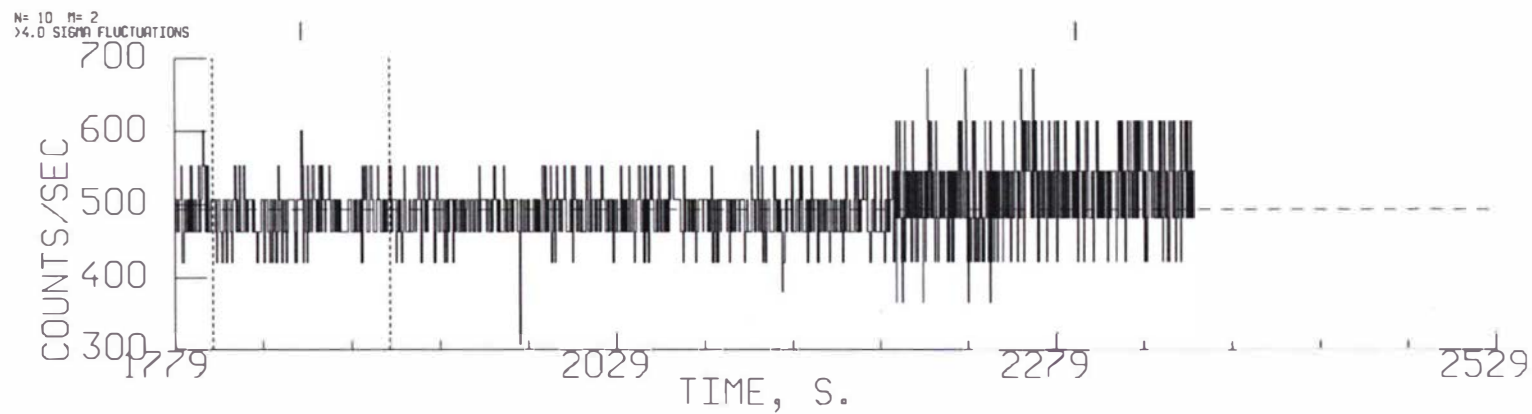
ULYSSES RT
4/ 9/95 50940.328 s
21- 142 keV

30/ 8/11



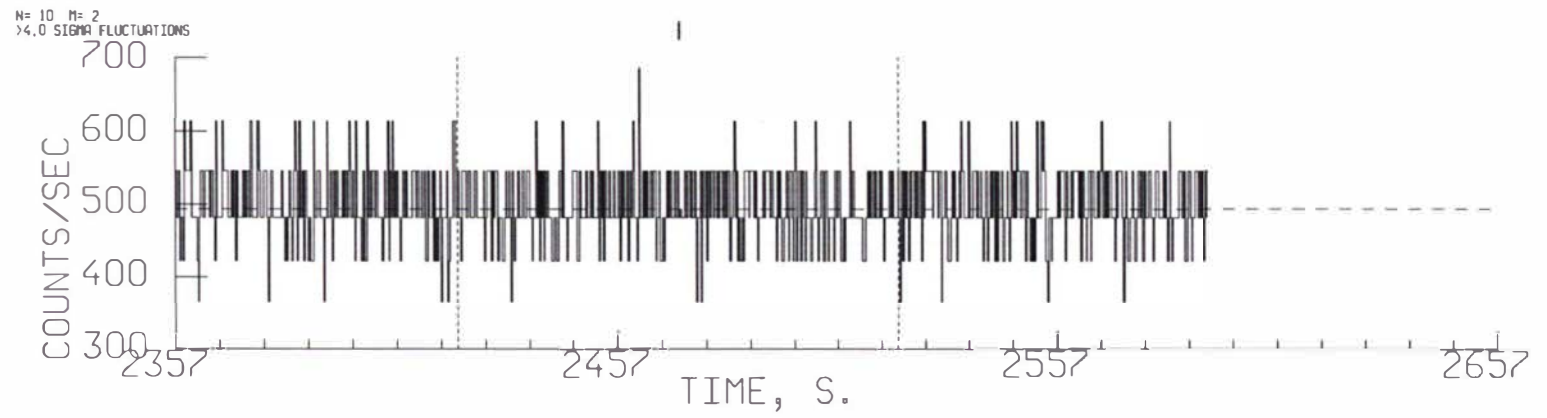
ULYSSES RT
4/ 9/95 50940.328 s
21- 142 keV

30/ 8/11



ULYSSES RT
4/ 9/95 50940.328 s
21- 142 keV

30/ 8/11



From DEAL@ssl.msfc.nasa.gov Wed Sep 6 10:13 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Wed, 6 Sep 1995 12:13:03 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3776

BATSEARCH PROGRAM

RI

BATSE BURST # 3776
EVENT OF 1995 SEP 4 DAY OF YEAR=247
EVENT CROSSING TIME AT BATSE : 52689. S. OR 14:38:09.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 259.000 48.000
BATSE PEAK COUNTING RATE: 15000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 4/ 9/ 95 IS:
RA= 190.109 DEC= 68.043 DIST= 2.531 AU
BATSE-ULYSSES DISTANCE = 378577985. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=141.20 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -984.16 SECS.
CROSSING TIME AT ULYSSES IS 51705. S. OR 14:21:44 +/- 172.43 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 4/ 9/ 95 IS:
RA= 205.785 DEC= -10.861 DIST= 2.036 AU
MARS-BATSE DISTANCE = 304623456. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=104.68 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -257.56 SECS.
CROSSING TIME AT MARS IS 52431. S. OR 14:33:51 +/- 166.74 SECONDS

BATSE BURST TRIGGER

NO.: 3776

TIME: TJD=9964 SECONDS=52689

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=87.9 AZIMUTH=84.0 ERROR=.5 DEGREES

COMMENTS:

TWO DIFFERENT BURSTS ~ 75S APART. THE FIRST IS ~ 12S. IN DURATION AND THE SECOND IS ~ 35 S. THIS LOCATION IS FOR THE FIRST BURST. THE SECOND IS AT ZEN. 97.1 AND AZ 34.0. BOTH VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3776	950904	9964	52689	15000	259	+48	140

95	7	1	117	23737	23737	3658
95	7	6	121	42735	42735	3662
95	7	11	123	13789	13789	3663
95	7	13	BGR	32133	32176	3664
95	7	30	128	76149	76124	3720
95	8	4	131	7135	07134	3734
95	8	4	133	45377	45376	3735
95	8	8	BGR	13023	12974	3745
95	8	9	136	85945	85945	3750
95	8	18	137	5065	05002	3765
95	8	22	140	13751	13749	3767
95	9	4	142	52692	52688	3776
95	9	9	145	85473	85452	3788
95	9	19	151	51465	51447	3806
95	9	21	152	20947	20947	3811
95	9	22	BGR	15495		
95	9	22	BGR	25929		
95	9	26	BGR	63919		
95	10	1	153	41907		
95	10	2	BGR	77583		3843
95	10	4	BGR	83974		
95	10	5	154	14842.112		
95	10	8	156	46287.863		
95	10	10	BGR	11774		
95	10	11	157	77693.094		3860
95	10	13	159	57097.299		
95	10	14	160	13108.167		
95	10	14	161	43561.3		
95	10	16	162	02484.285		3870
95	10	16	BGR	71607		3871
95	10	18	163	19832.069		
95	10	19	64	11712.625		
95	10	19	165	48244.594		3875
95	10	25	167	85239.738		
95	11	2	168	07085.879		
95	11	2	69	21209.015		3891
95	11	2	BGR	28693		
95	11	5	BGR	01745		
95	11	5	170	05868.077		3893
95	11	5	171	46827.808		
95	11	7	BGR	27298		
95	11	11	BGR	34960		
95	11	12	172	66495.244		
95	11	13	173	84358.872		3906
95	11	15	BGR	38929		
95	11	17	175	10123.762		
95	11	18	BGR	82560		
95	11	19	176	29831.402		3912
95	11	19	177	46457.519		
95	11	19		59448		
95	11	21		22280		
95	11	22	179	09841.38		
95	11	22	180	17107.738		
95	11	23	BGR	65408		
95	11	24	BGR	21266		3918
95	11	24	BGR	25132		

-- T. L. Cline ----- LHEAVX::CLINE

From cline@lheavx.gsfc.nasa.gov Fri Jan 26 13:00 PST 1996
 Date: Fri, 26 Jan 1996 13:00:45 -0800
 Mime-Version: 1.0
 To: KHURLEY@sunspot.ssl.berkeley.edu
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: Improved list; same question.

Dear Kevin,

I'm making a little progress here, tracking down these events. This is a slightly improved list, with a few more BATSE triggers identified. - TLC

Yr	Mn	Dy	Konus#	Konus Tzero	BATSE Tz, #	Ulysses
94	11	14	BGR	07360	07358 3283	- NO
94	11	19	4	70269.175	70250 3287	R I
94	11	21	6	62700.945	62697 3290	trig.
94	11	25	7	79470.156	79470 3295	R I
94	11	26	BGR	01246	01245 3296	
94	11	26	8	44557.952	44521 3298	trig.
94	11	26	BGR	60860	60861 3299	
94	11	26	9	71809.732	71798 3301	R I
94	11	27	10	52225.68	52217 3303	R I
94	11	28	BGR	56220	56217 3305	
94	12	28	28	27585.915	27581 3330	R I
94	12	29	29	82268.781	82258 3334	R I
95	1	4	31	26319.613	26319 3345	R I
95	1	11	33	17352.241	17263 3351	R I
95	1	11	34	44329	44310 3352	
95	1	17	BGR	05760	05761 3360	
95	1	18	BGR	44574	44589 3364	
95	2	7	BGR	02774	02781 3406	
95	2	8	45	07824	07824 3408	
95	2	10	47	08424	08421 3410	
95	2	11	48	08697	08697 3412	trig.
95	2	11	50	72469	72468 3415	
95	2	21	BGR	74701	74705 3436	
95	2	26	54	53351	53336 3442	
95	3	1	BGR	75731	75761 3448	
95	3	4	56	37661	37657 3453	
95	3	5	58	54309	54304 3458	
95	3	10	BGR	78388	78395 3464	
95	3	25	63	25841	25844 3480	
95	3	25	64	63392	63391 3481	
95	3	27	BGR	26323	26347 3485	
95	3	27	BGR	85672	85671 3486	
95	4	1	69	42647	42642 3488	
95	4	1	70	74635	74634 3489	
95	4	3	71	47985	47987 3491	
95	4	3	72	84828	84826 3492	
95	4	16	BGR	48420	48419 3509	
95	4	18	81	83793	83795 3512	
95	4	25	86	00923	00919 3523	
95	4	30	BGR	54224	54229 3527	
95	5	3	88	66971	66970 3537	
95	5	10	90	28083	28079 3569	
95	5	13	93	81706	81703 3571	
95	5	21	97	25161	25157 3588	
95	5	22	98	23898	23896 3590	
95	5	22	100	85280	85283 3593	
95	5	24	102	14902	14899 3598	
95	6	2	104	25592	25592 3618	
95	6	10	107	6849	06849 3637	
95	6	24	111	84124	84084 3648	
95	6	25	113	14626	14601 3649	
95	6	29	115	37033	37036 3654	
95	7	1	116	12762	12758 3657	

Helio corr removed

Date: Feb 19 '98

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☐ Is the order of the data in CORREL such that a vernier is done on the data with the best time resolution? *No - bad stats*

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)? *N/A*
- ☒ BATSE ephemeris for T_0 ?
- ☒ Error circle position and radius from public catalog used?
- ☐ If MER data were used, is a 30 ms systematic error included? *N/A*

3. PVO Data

- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS database updated?

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

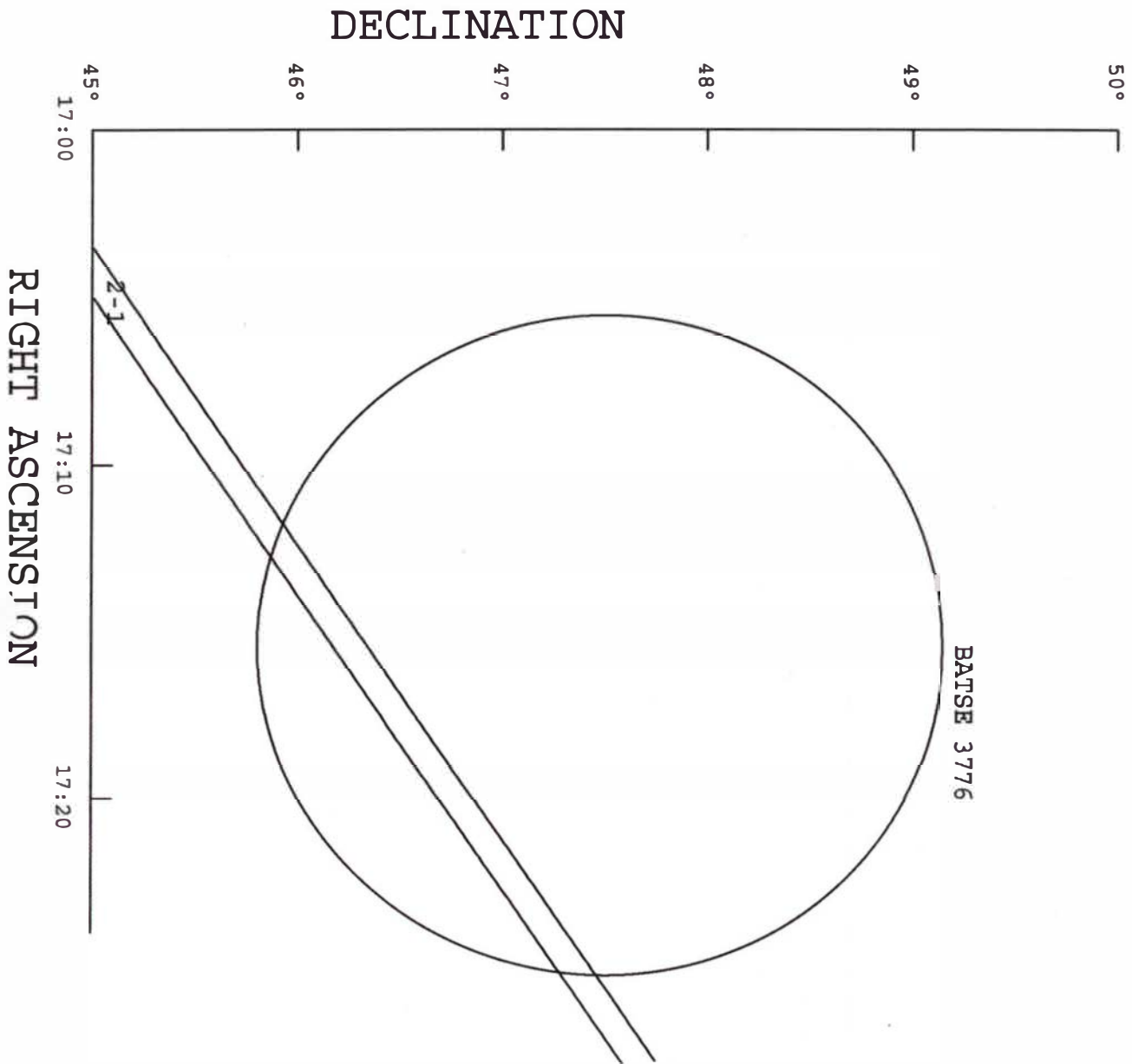
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF SEP 4, 1995 14:21

19 / 2/98



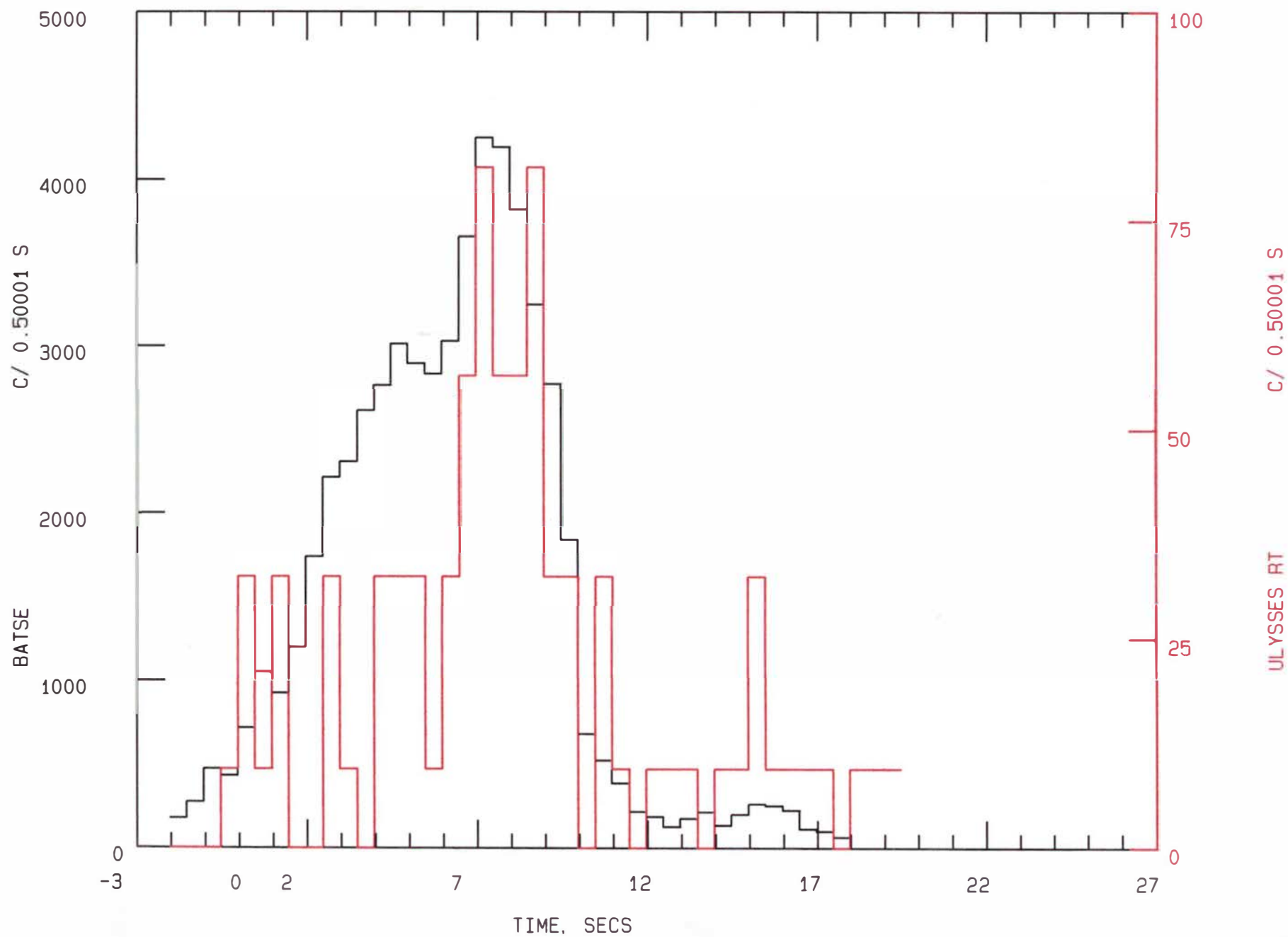
BATSE

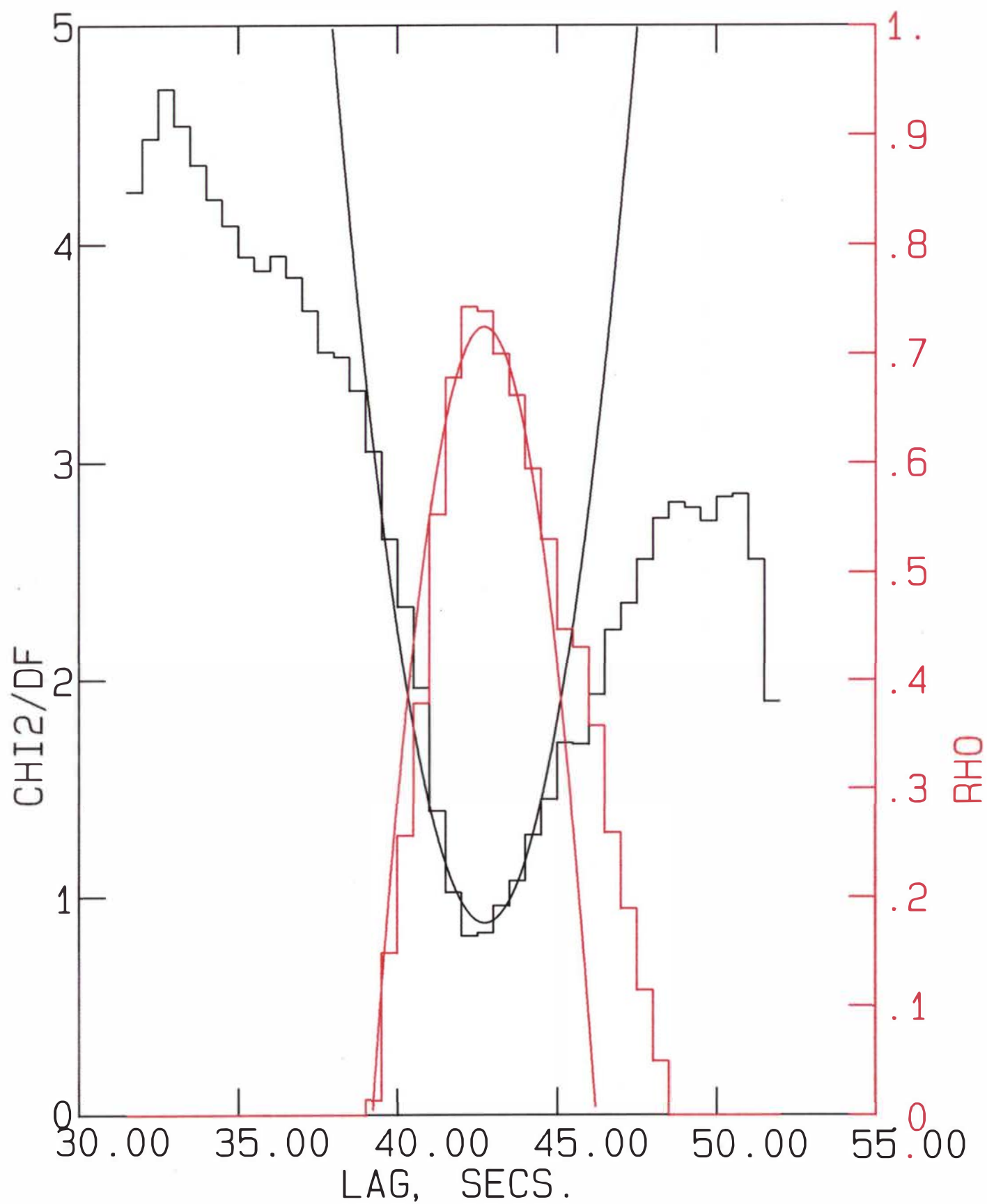
-ULYSSES RT CORRELATION

4/ 9/95

52688.562

19/ 2/98





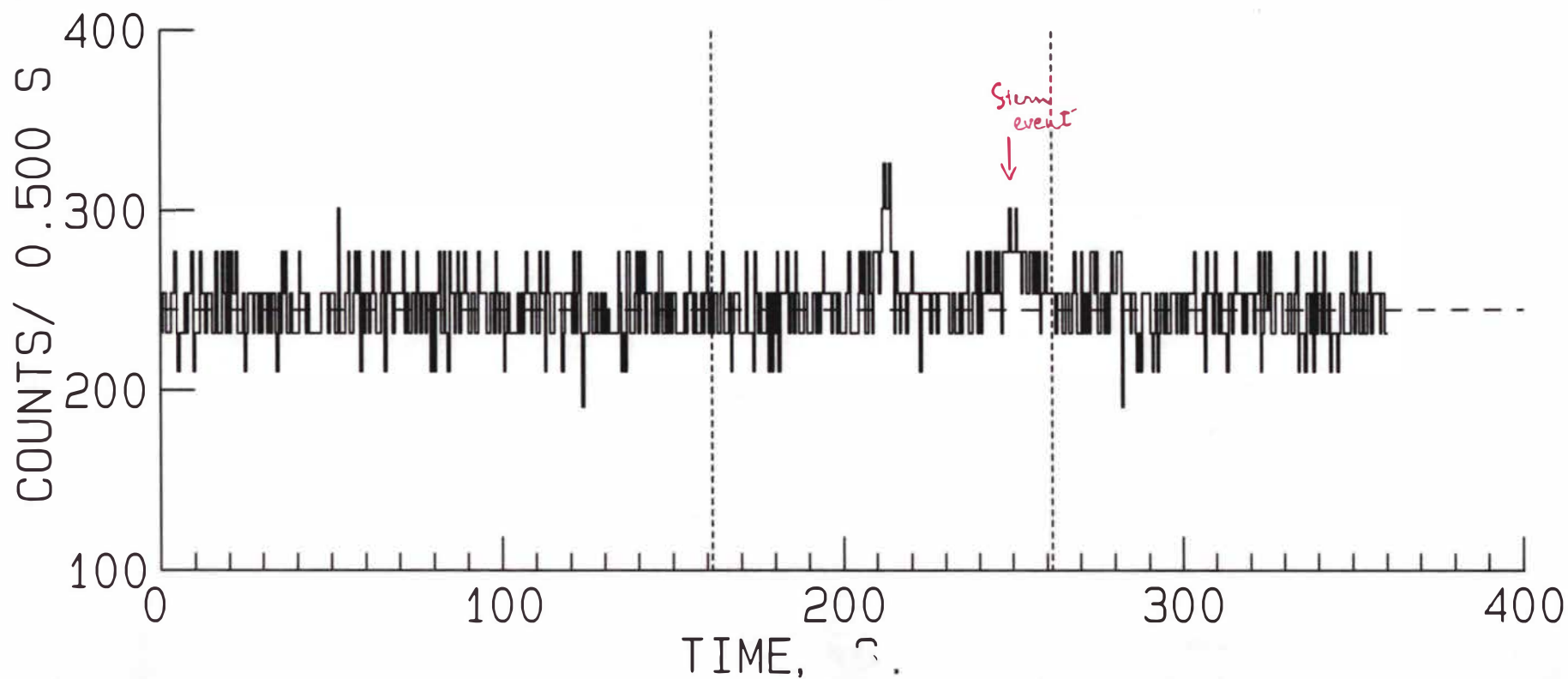
ULYSSES RT

19 / 2 / 98

4 / 9 / 95 51516.338 s

21- 142 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From dgreen@cfa0.harvard.edu Fri Feb 16 14:47 PST 1996
Date: Fri, 16 Feb 96 14:31:29 EST
From: dgreen@cfa0.harvard.edu (Daniel W. E. Green)
To: quai@mars.harvard.edu
Subject: IAUC 6315: GRO J1744-28; C/1996 B2

Circular No. 6315

Central Bureau for Astronomical Telegrams
INTERNATIONAL ASTRONOMICAL UNION
Postal Address: Central Bureau for Astronomical Telegrams
Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.
IAUSUBS@CFA.HARVARD.EDU or FAX 617-495-7231 (subscriptions)
BMARSDEN@CFA.HARVARD.EDU or DGREEN@CFA.HARVARD.EDU (science)
Phone 617-495-7244/7440/7444 (for emergency use only)

GRO J1744-28

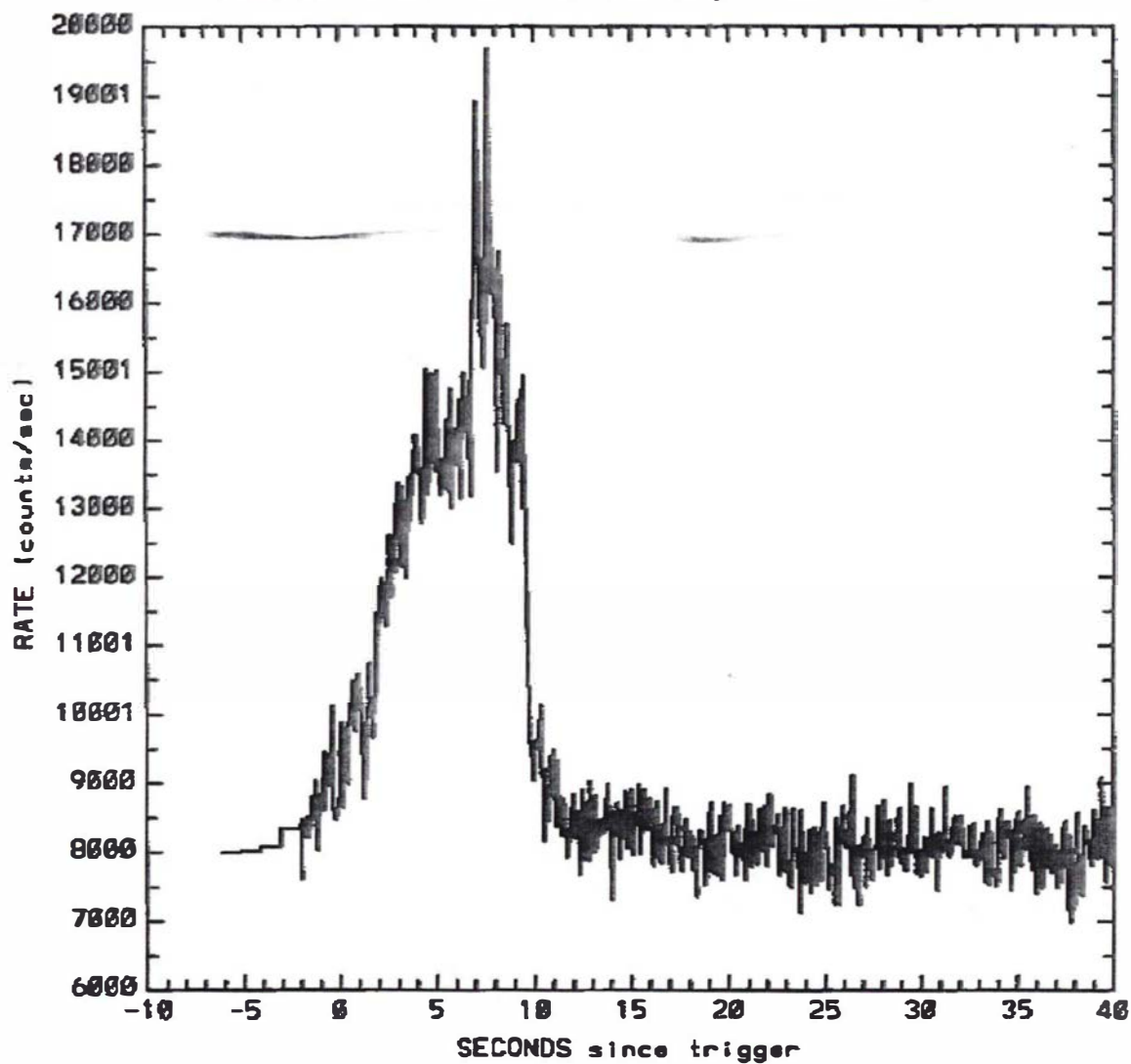
D. E. Vanden Berk, S. A. Sevrerson, D. M. Cole, D. Q. Lamb, M. C. Miller, R. C. Nichol, J. M. Quashnock, E. Bergeron, K. Gloria, and D. Long, University of Chicago, report follow-up analyses related to their discovery (IAUC 6310) of the optical/near-infrared counterpart of the variable radio source (IAUC 6307) in the XTE error box of GRO J1744-28: "During Feb. 5.534-5.582 UT, we carried out optical observations of a region of the sky that included the entire XTE error box (IAUC 6309) for GRO J1744-28, using the Astrophysical Research Consortium's 3.5-m telescope at Apache Point Observatory. A re-analysis of our data (using our own photometric standards) shows that we reach limiting magnitudes $g = 19.7 \pm 0.3$ and $r = 20.5 \pm 0.3$. We see no new object or any significant brightening of any known object to these limits, compared to the COSMOS/NRL list and the European Southern Observatory (ESO) R copy of the U.K. Schmidt photographic plate. We now measure $r = 20.1 \pm 0.2$ for the object reported by us on IAUC 6310 (we call this 'star a'). From an ESO 2.2-m IRAC2 K' image kindly provided by K. Glazebrook, C. Lidman, and P. Blanco, and using the preliminary photometric calibration provided by them, we measure $K' = 13.1 \pm 0.3$ for the source originally reported by us on IAUC 6310 (we call this 'star A'). This is consistent with the value we reported earlier. Our astrometric solution is based on four stars in the COSMOS/NRL list that we are able to identify in all three passbands (g , r , and K'). At the position of the radio source, we detect nothing to the above limits in g and only one source (within 1") in r , that being at R.A. = 17h44m36s.94, Decl. = -28°45'38".2 (equinox 2000.0) in the COSMOS/NRL reference frame (star a). In the ESO IRAC2 K' image, we find four stars within 3" of the position of the radio source and list them here in increasing distance from that position (with R.A. and Decl. position and figures): star A, 36s.91, 37".8; star B, 36s.93, 35".9; star C, 36s.72, 38".5; star D, 36s.87, 34".3."

COMET C/1996 B2 (HYAKUTAKE)

Total visual magnitude and coma diameter estimates: Feb. 12.18 UT, 8.6, - (J. M. Trigo, Castellon, Spain, 7x50 binoculars); 13.43, 8.6, 2'.0 (J. Bortle, Stormville, NY, 0.41-m reflector); 13.70, 7.9, (T. Lovejoy, Jimboomba, Queensland, 15x80 binoculars); 14.45, 7.3, - (A. Hale, Cloudcroft, NM, 10x50 binoculars); 14.45, 7.7, 8' (C. S. Morris, Pine Mountain Club, CA, 20x80 binoculars).

Sep 4

DISCSC Data for K. Hurley, No. 3776



22-SEP-1995 09:46:56

Created by MDPS 80
(Burst Display)
Version 6.25

Trigger = 3776

Trigger Time:
9964 / 52688.562

Burst Data Type:
DISCSC

Deadtime
Corrected: N

Background Data
Type: PREB + DISCLA

Minimum Integ. Time:
0.064 second(s)

Detectors [7..8]:
--4--15

Discriminators:
[1 . 2]

Quality Mask:
MDISP1

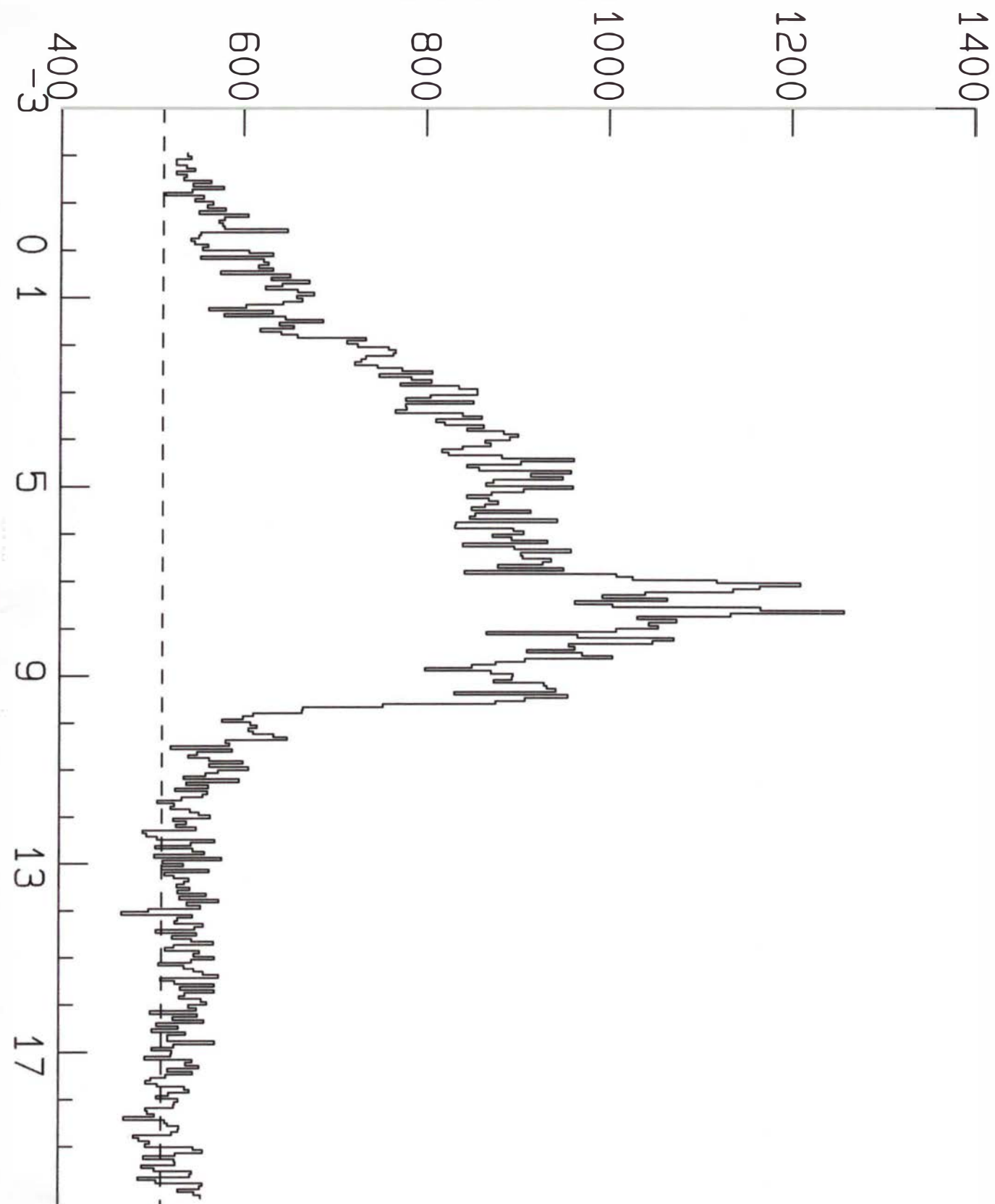
BATSE

04/09/95

52688.562

25- 100 keV

COUNTS/0.064 S



5 / 10 / 95

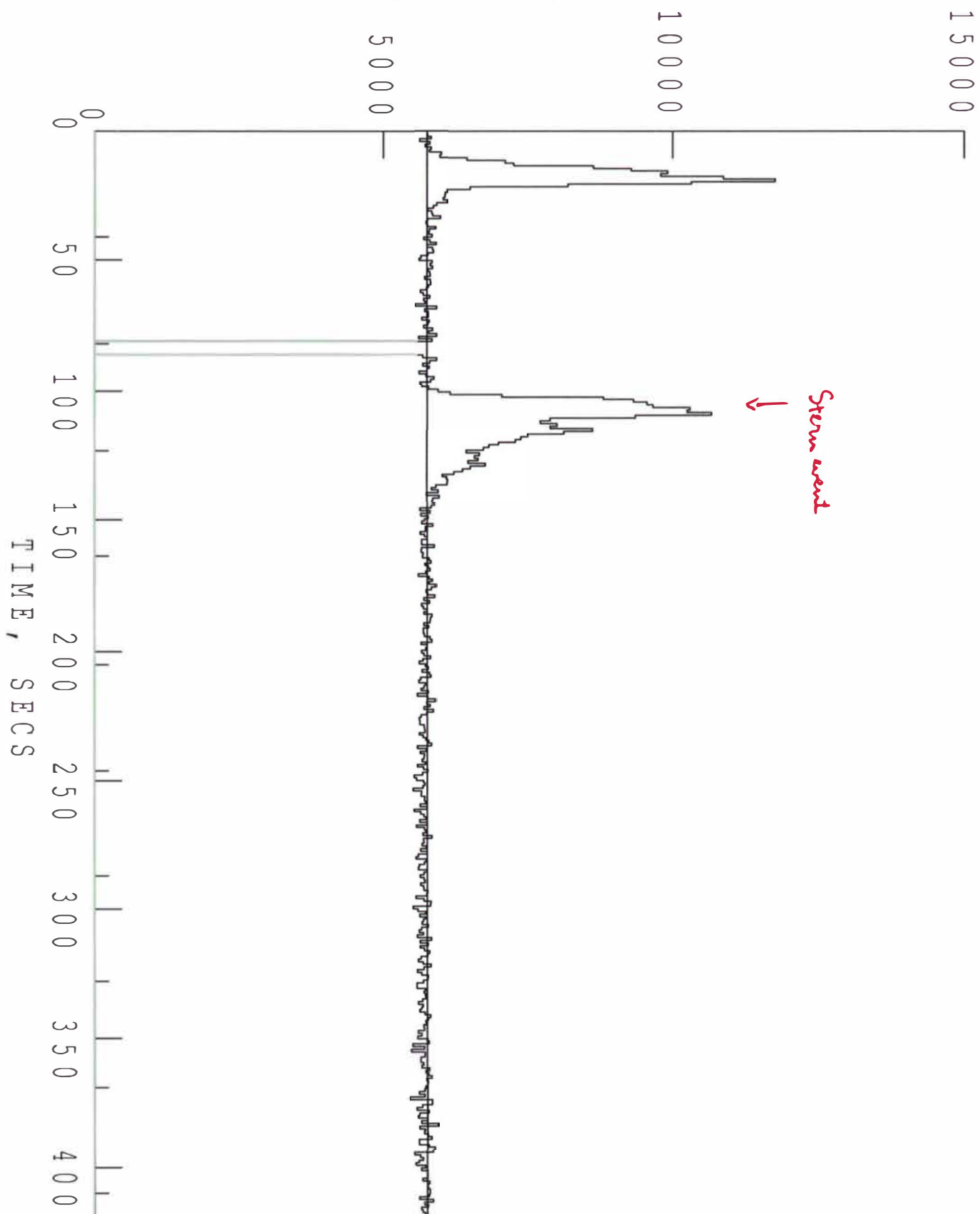
BACODINE

04/09/95

52677.297

25 - 100 keV

COUNTS/1.024 S



BATSE time corrected 10/01

Date: Jul 03 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? **No**

2. For 3 Spacecraft events

- ☐ Konus N/S anisotropy used to distinguish between positions?
- ☐ SAX anisotropy used to distinguish between positions?
- ☐ SAX Earth-blocking used to distinguish between positions?
- ☐ $\Sigma 3\Delta t$'s calculated?

3. For 4 Spacecraft Events

- ☐ BMAPSUM executed to get chisquare for alternate positions?

- ☒ ACCESS database updated?

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

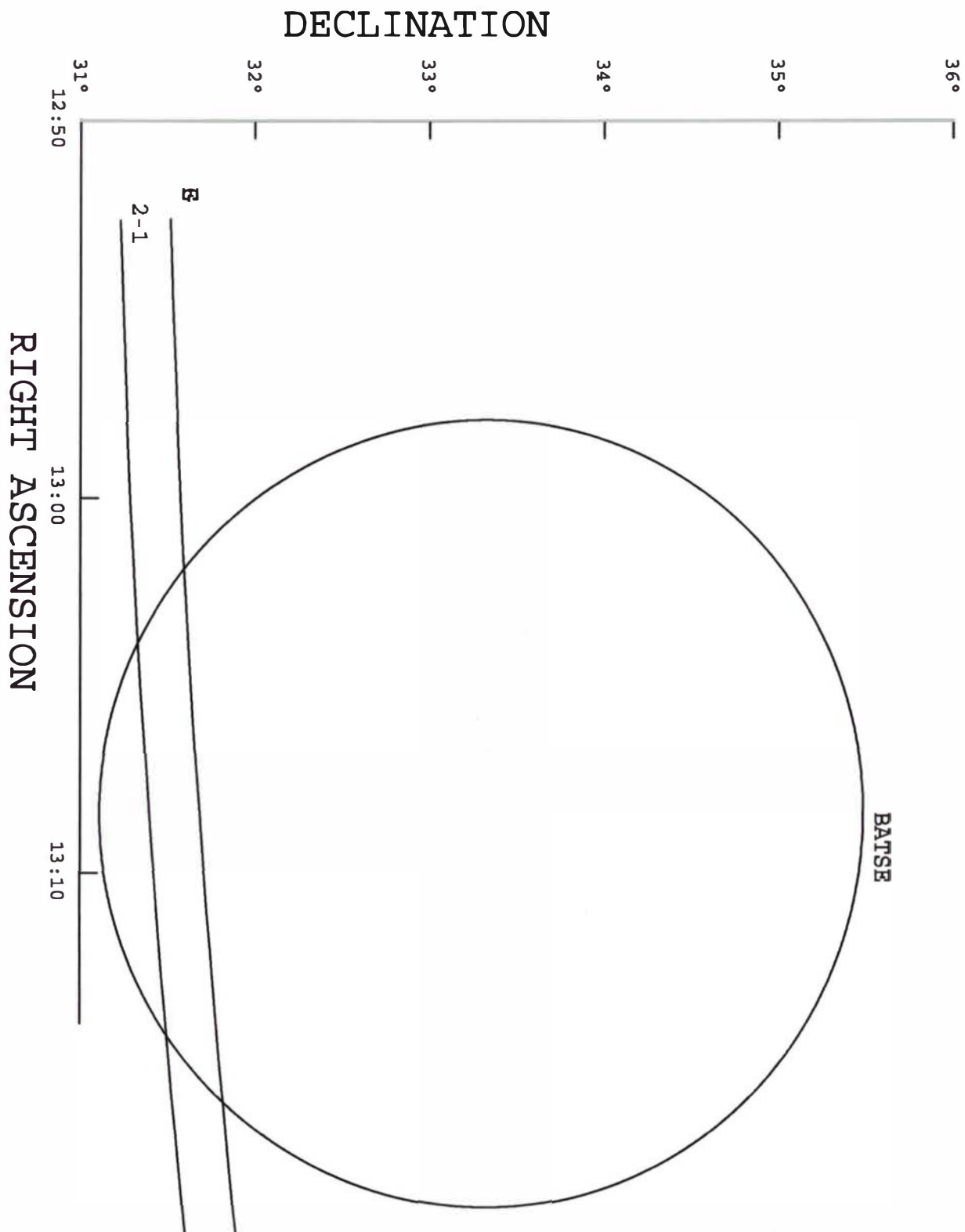
G=GALACTIC EQUATOR

1 BATSE

2 ULYSSES

EVENT OF SEP 4, 1995 14:38

3 / 7 / 2



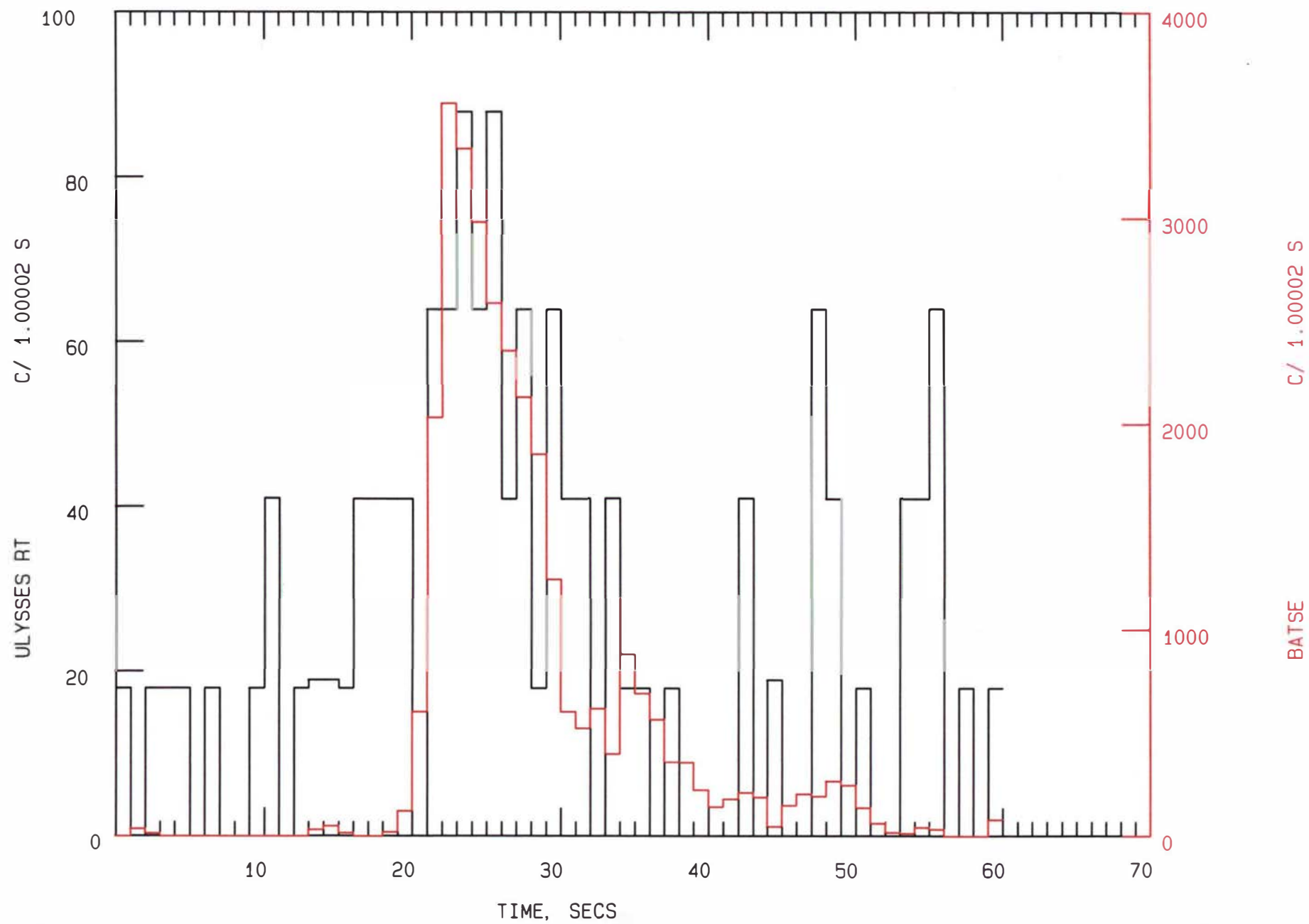
ULYSSES RT-BATSE

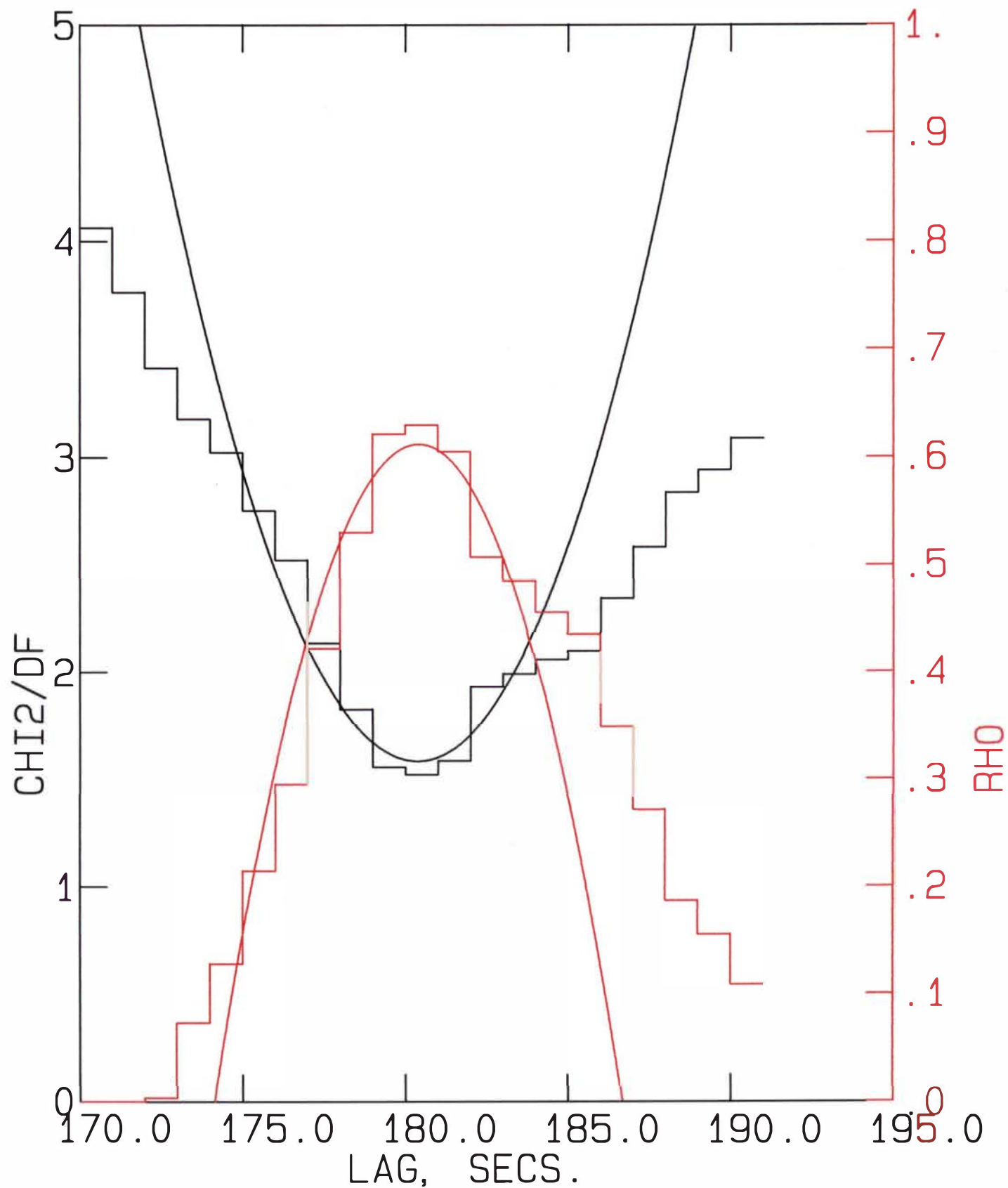
CORRELATION

4/ 9/95

51742.443

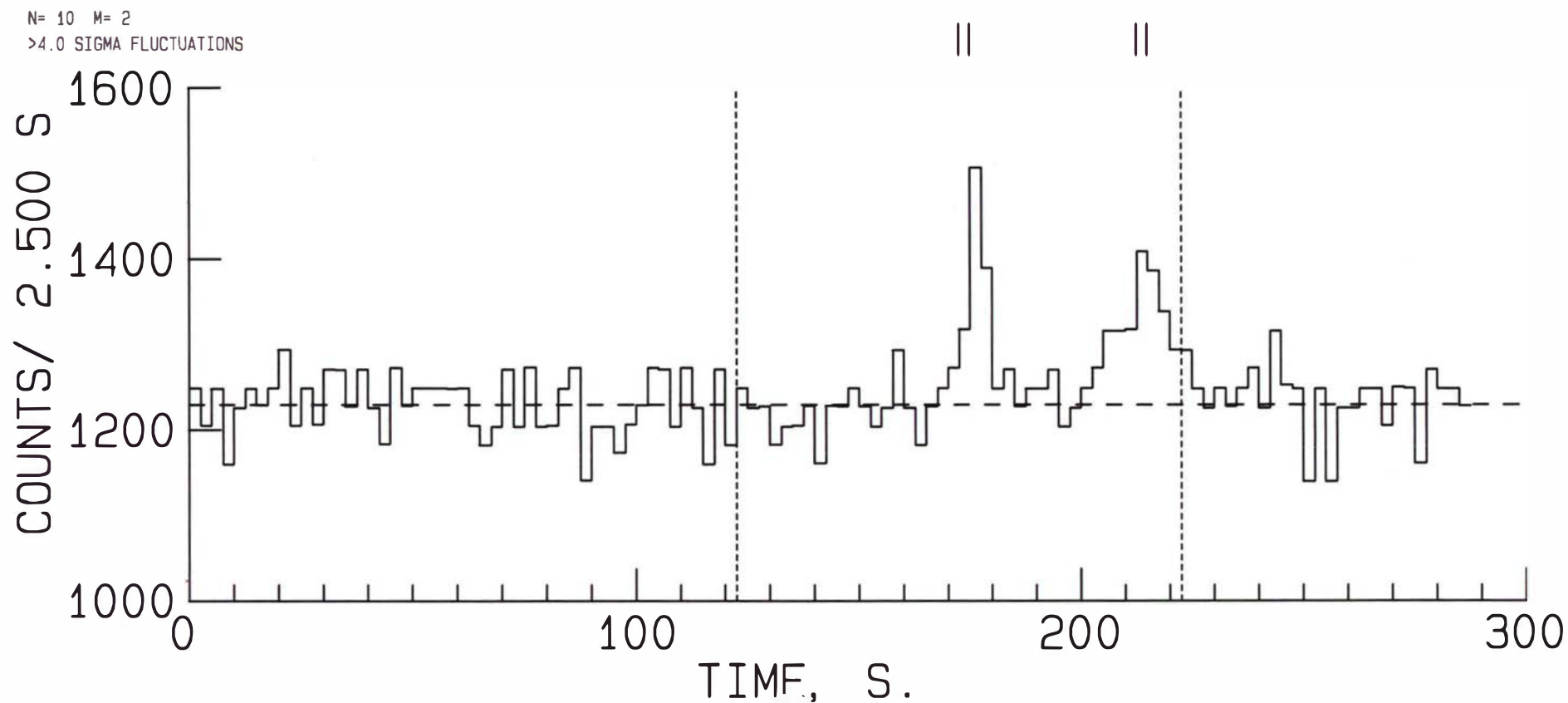
3/ 7/ 2





ULYSSES RT
4/ 9/95 51552.336 s
0.500 S INTERVALS REGROUPED BY 5
21- 142 keV

3 / 7 / 2



Date: Aug 31 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is done on the data with the best time resolution?

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)?
- ☐ BATSE ephemeris for T_0 ?
- ☐ Error circle position and radius from public catalog used?
- ☐ If MER data were used, is a 30 ms systematic error included?

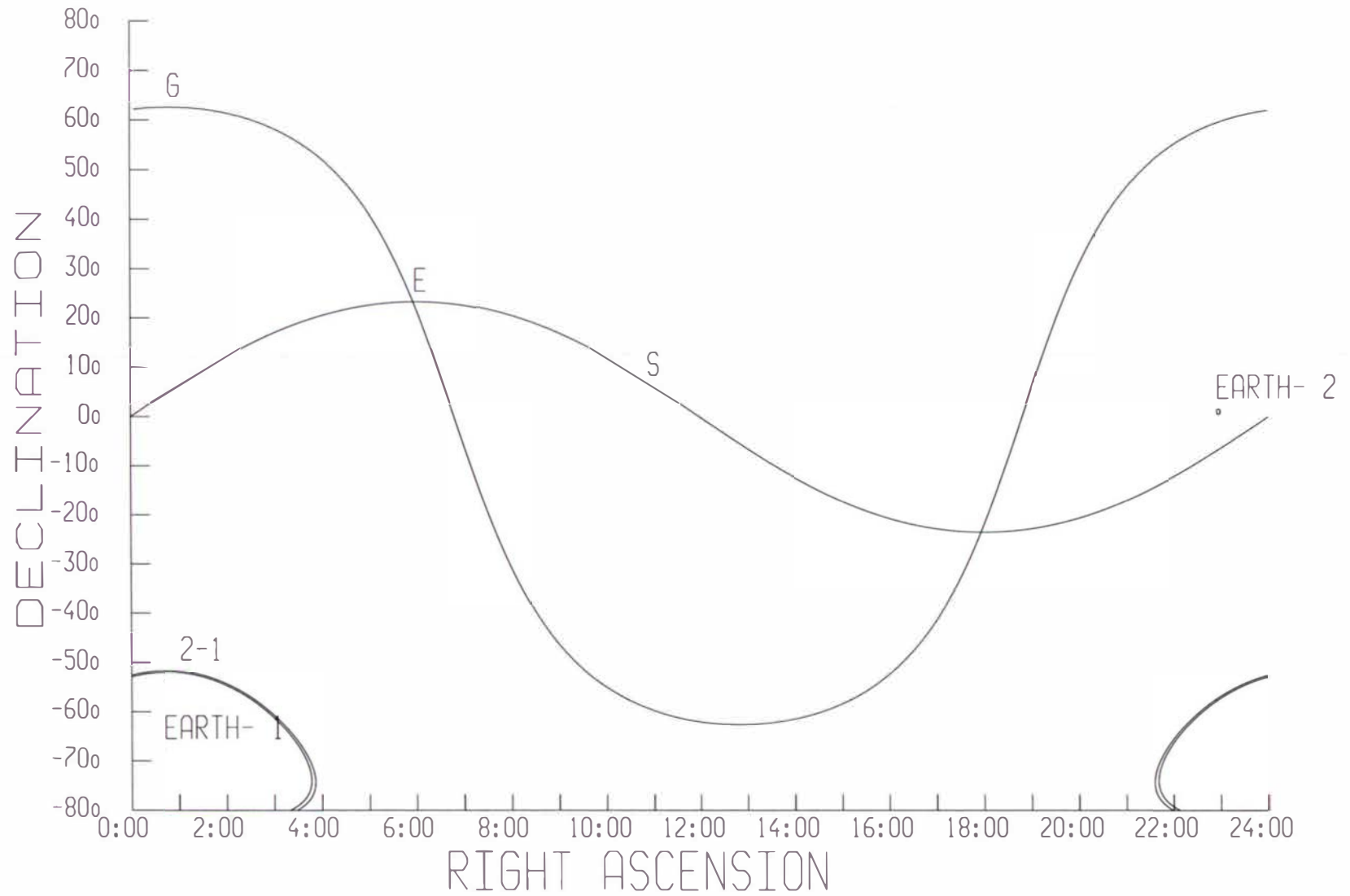
3. PVO Data

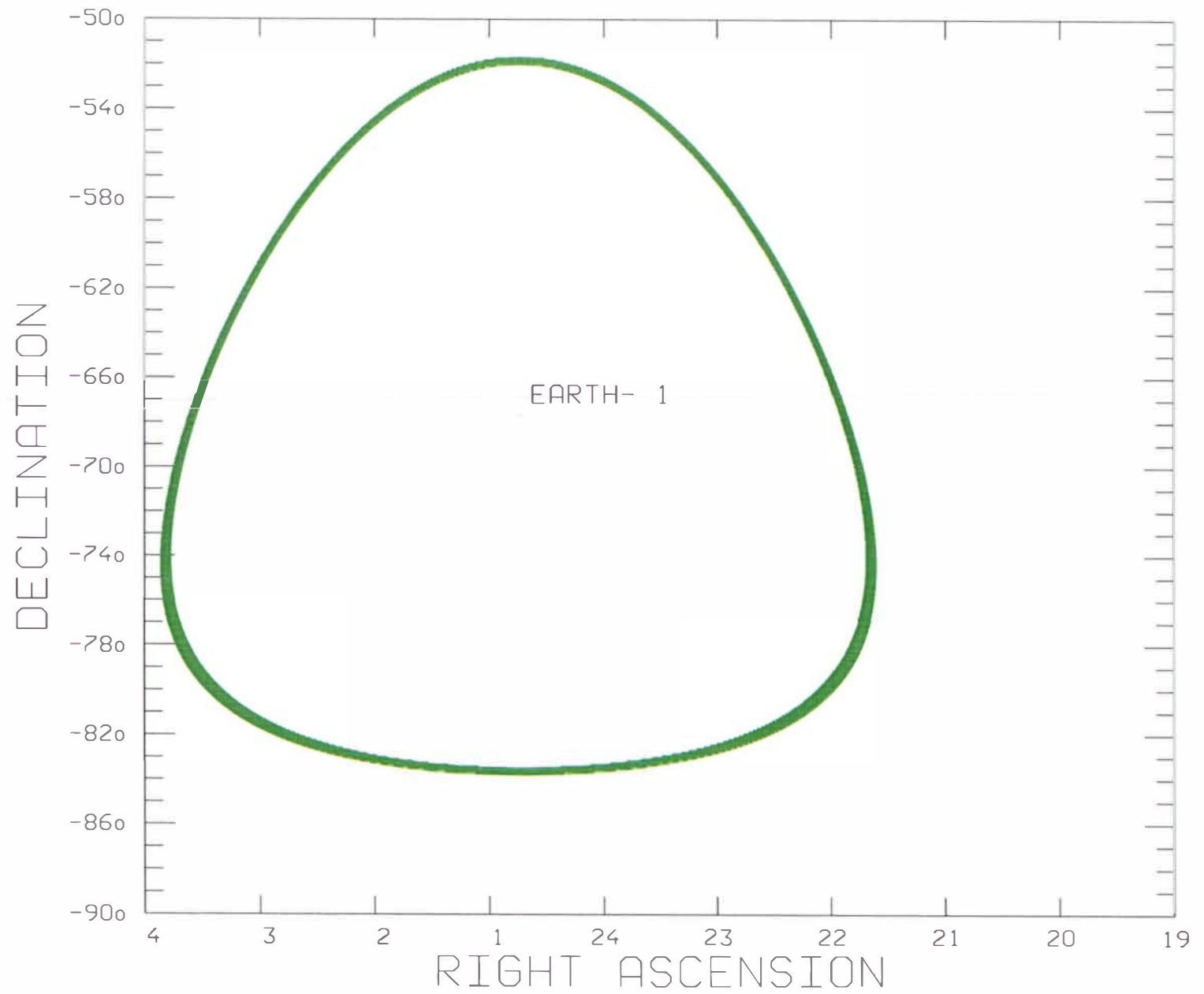
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

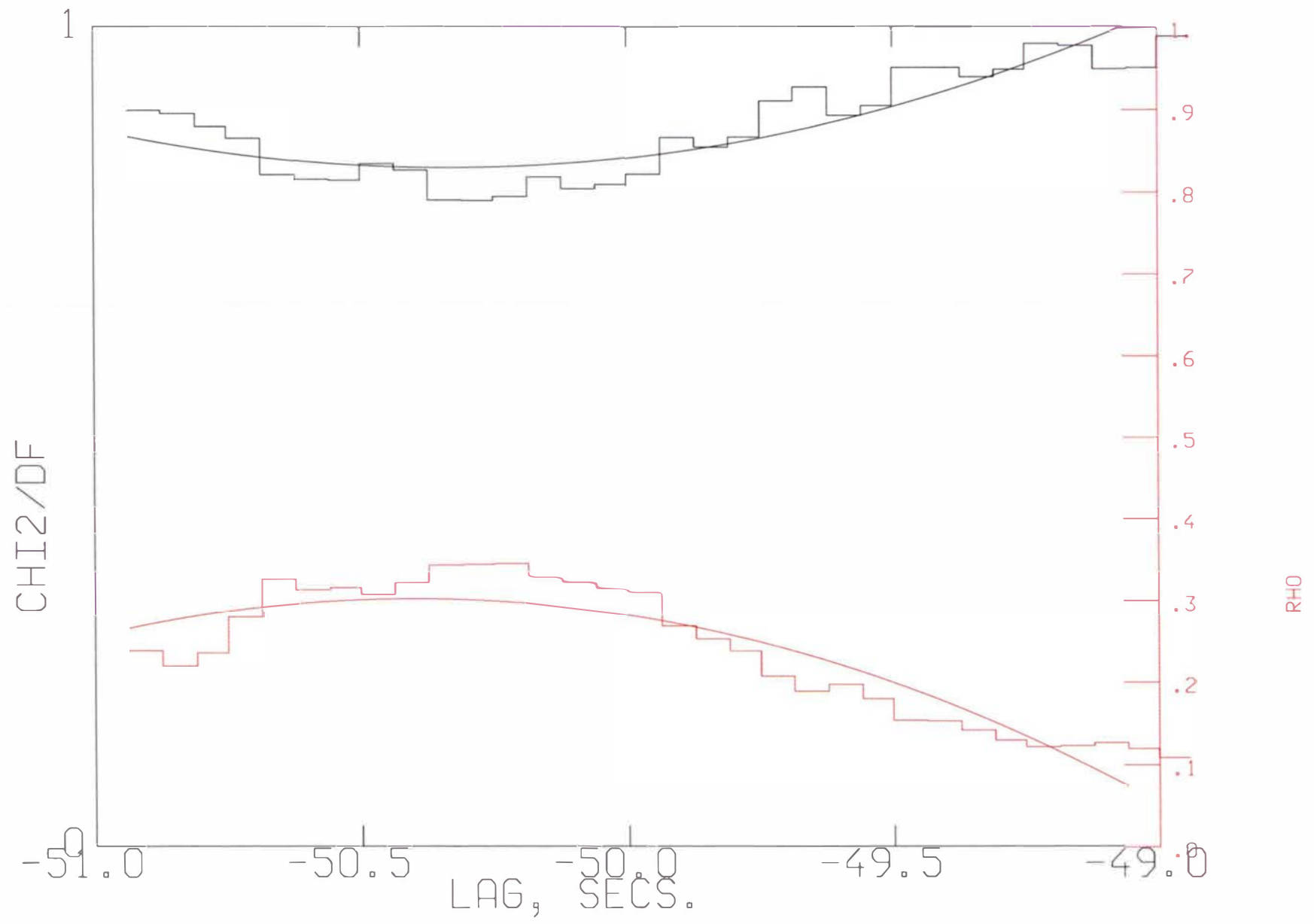
EVENT OF SEP 4, 1995 22:40

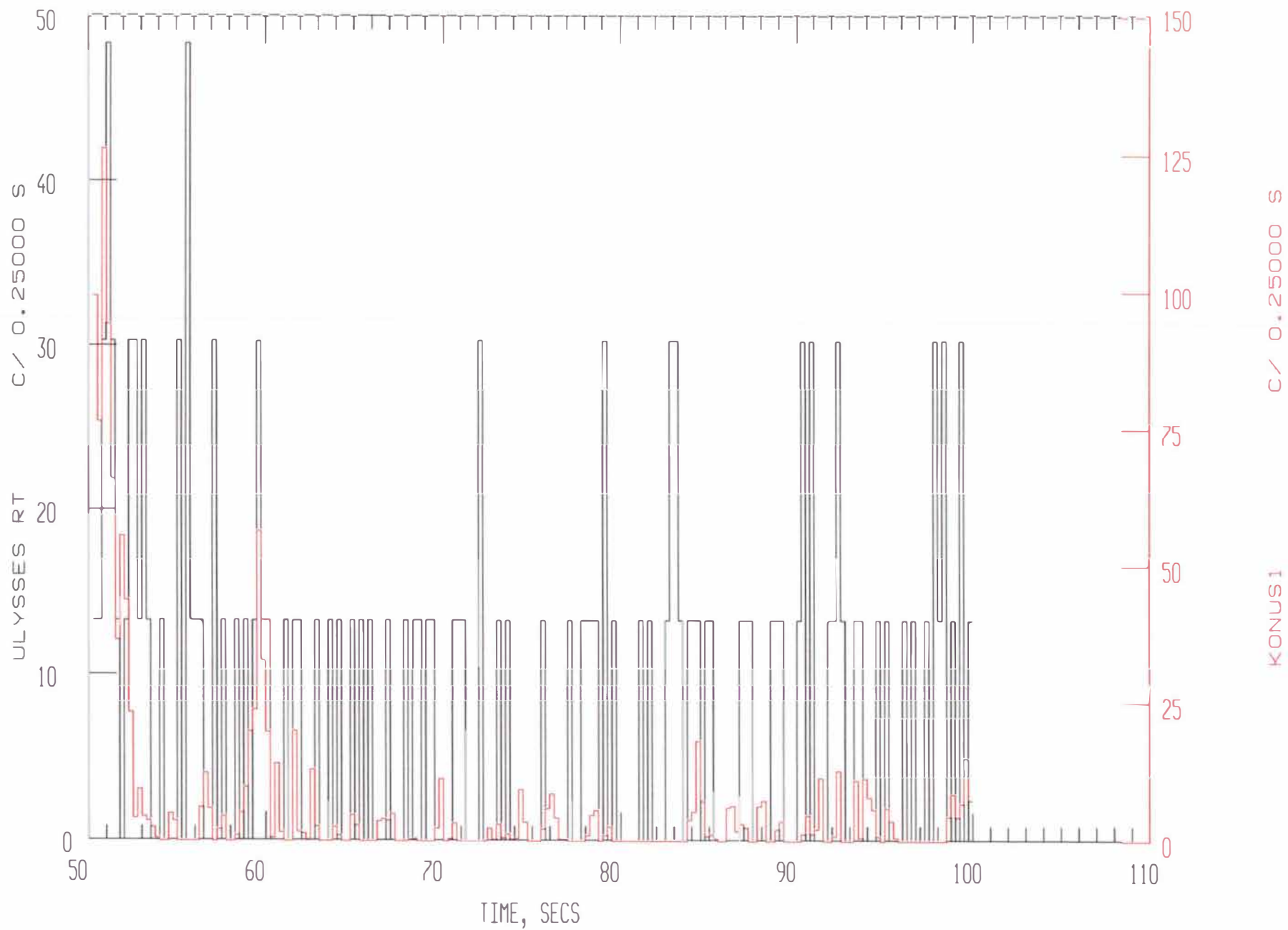
31/08/2011

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









KONUS 19950904 81678

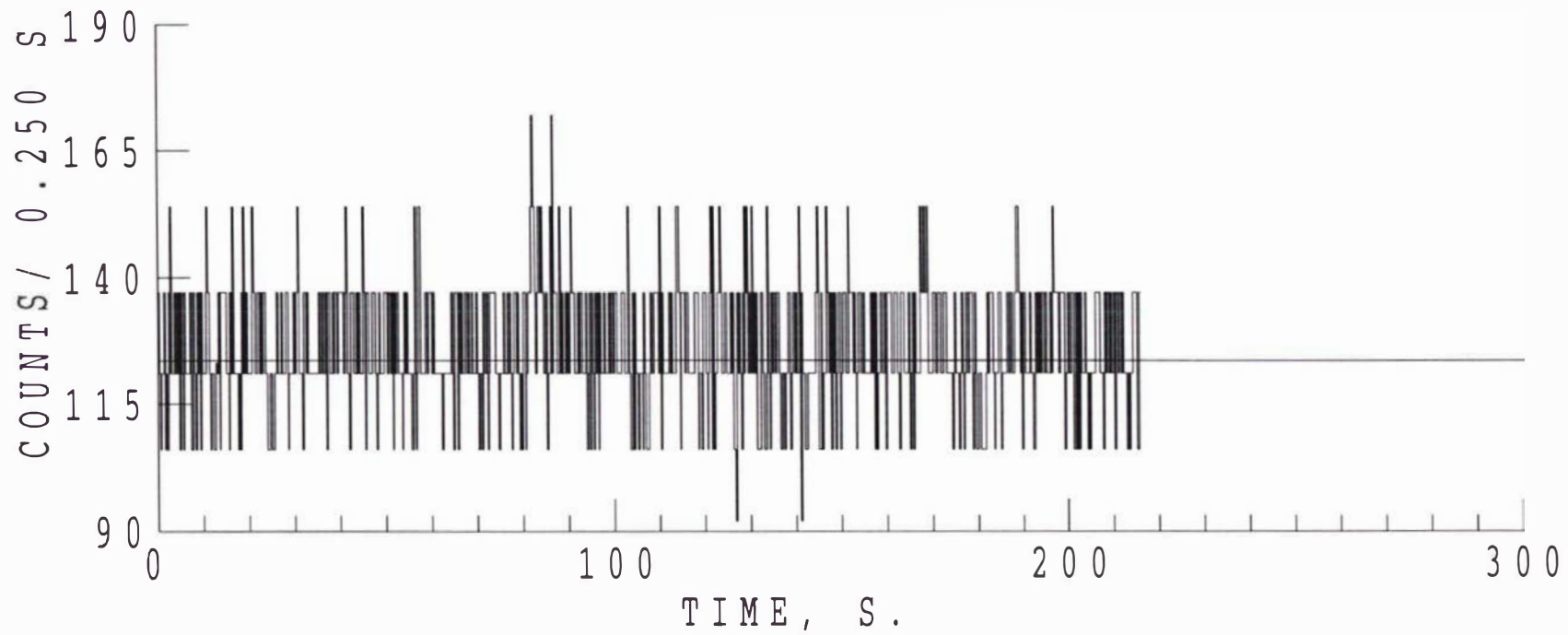
ULYSSES RT

30 / 08 / 11

04 / 09 / 95 81576.109 s

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

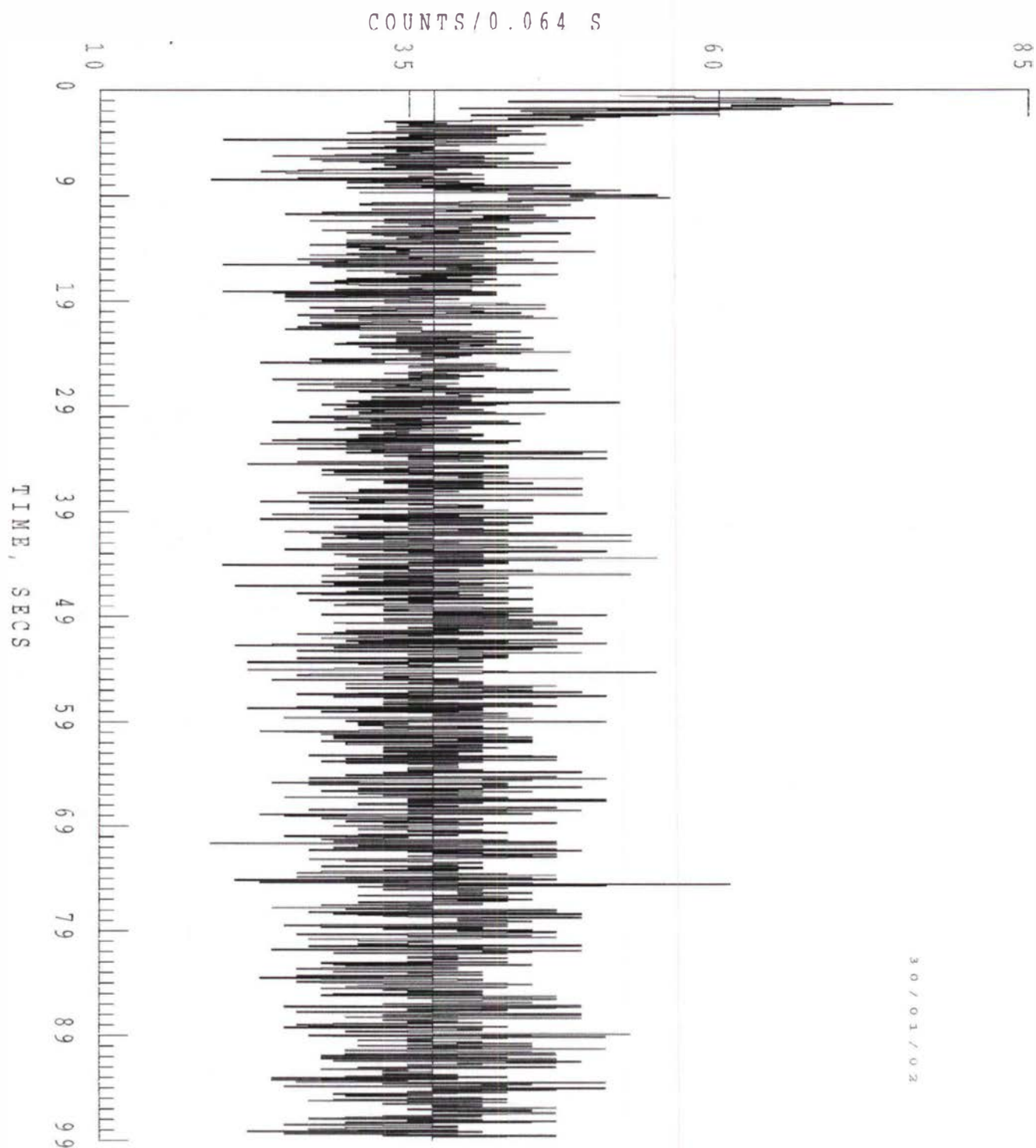


KONUS1

04/09/95

80442.807

50 - 200 keV



KONUS1 19950904 80442

ULYSSES RT

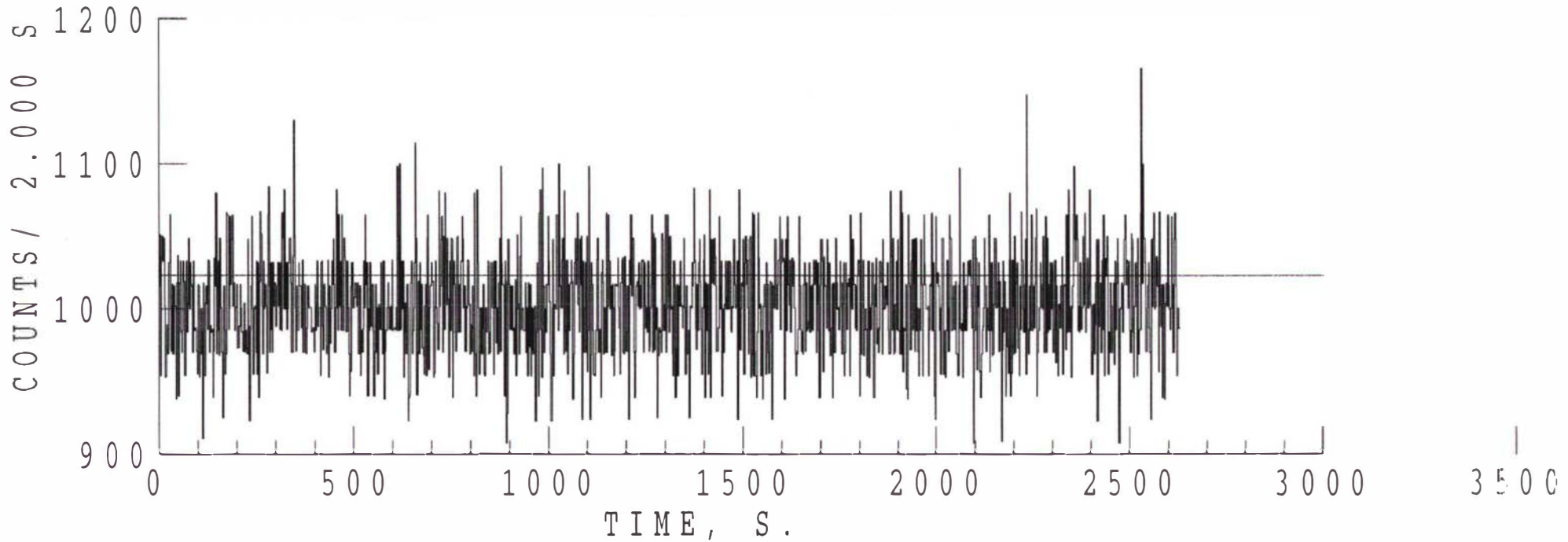
30/01/02

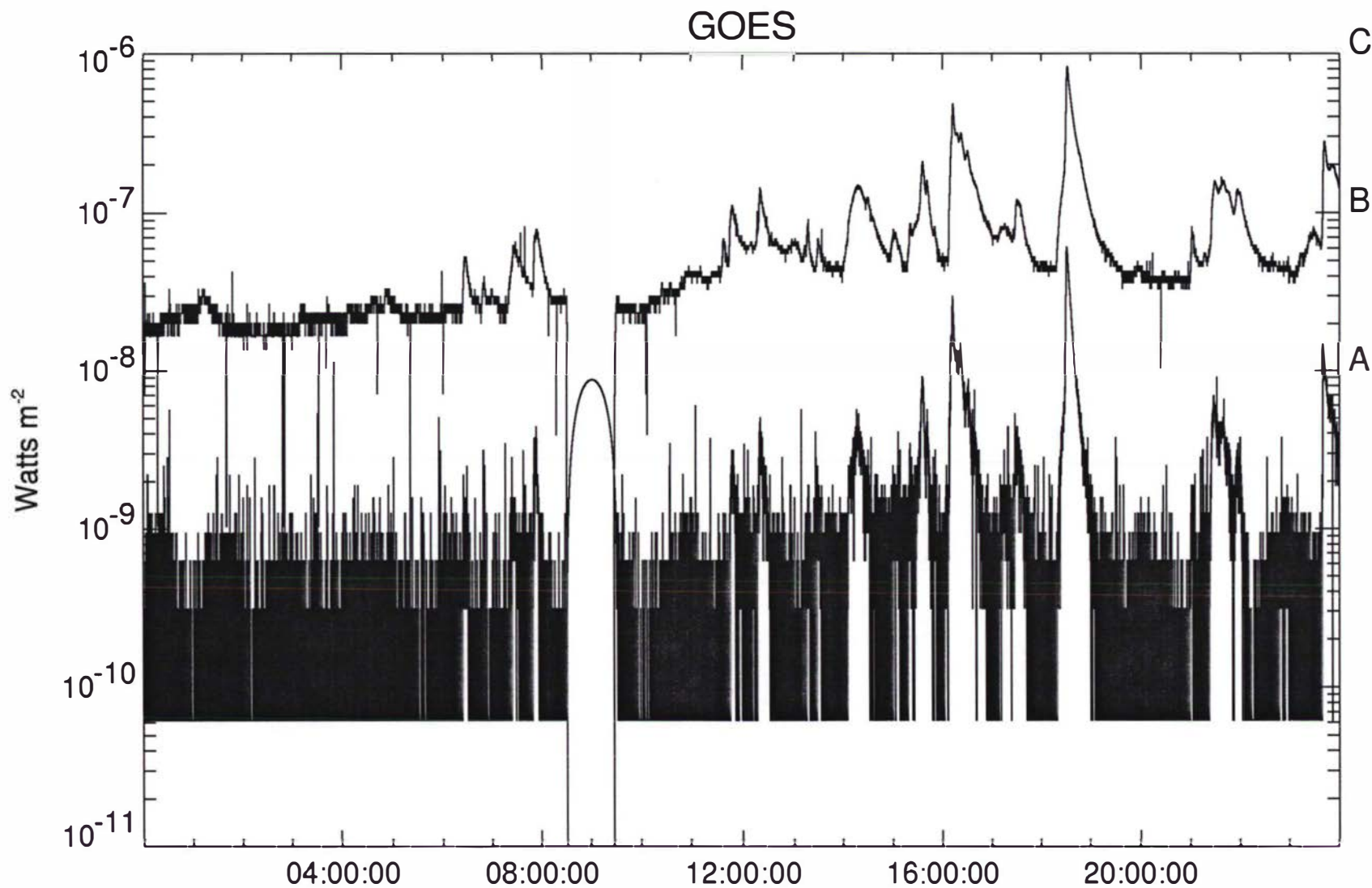
04/09/95 79128.062 s

0.250 S INTERVALS REGROUPED BY 8

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





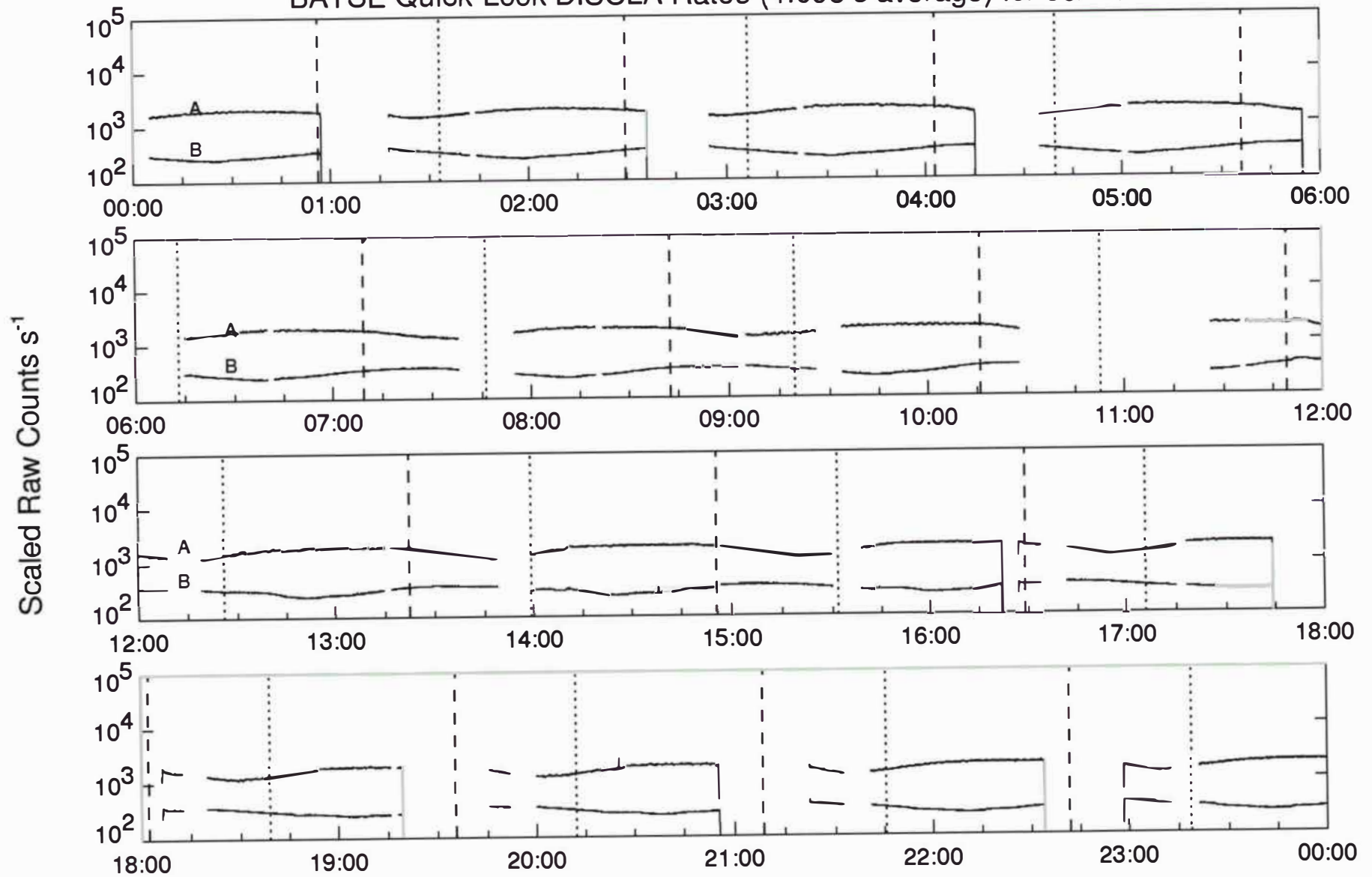
Data Start: 95/09/04, 0000:01

Plot created: 95/09/06, 1425

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/04



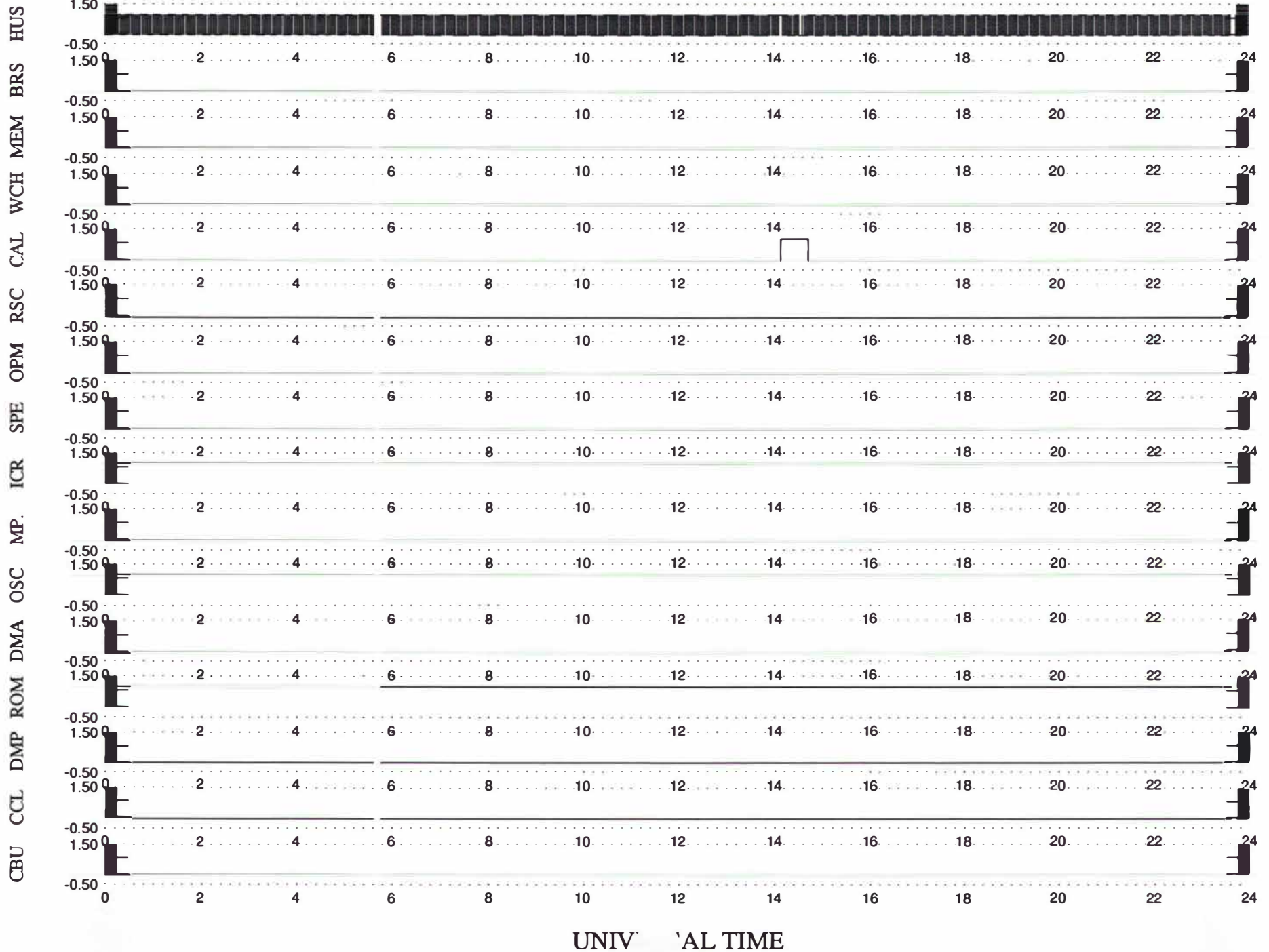
Current Time: 95/09/11, 1810 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

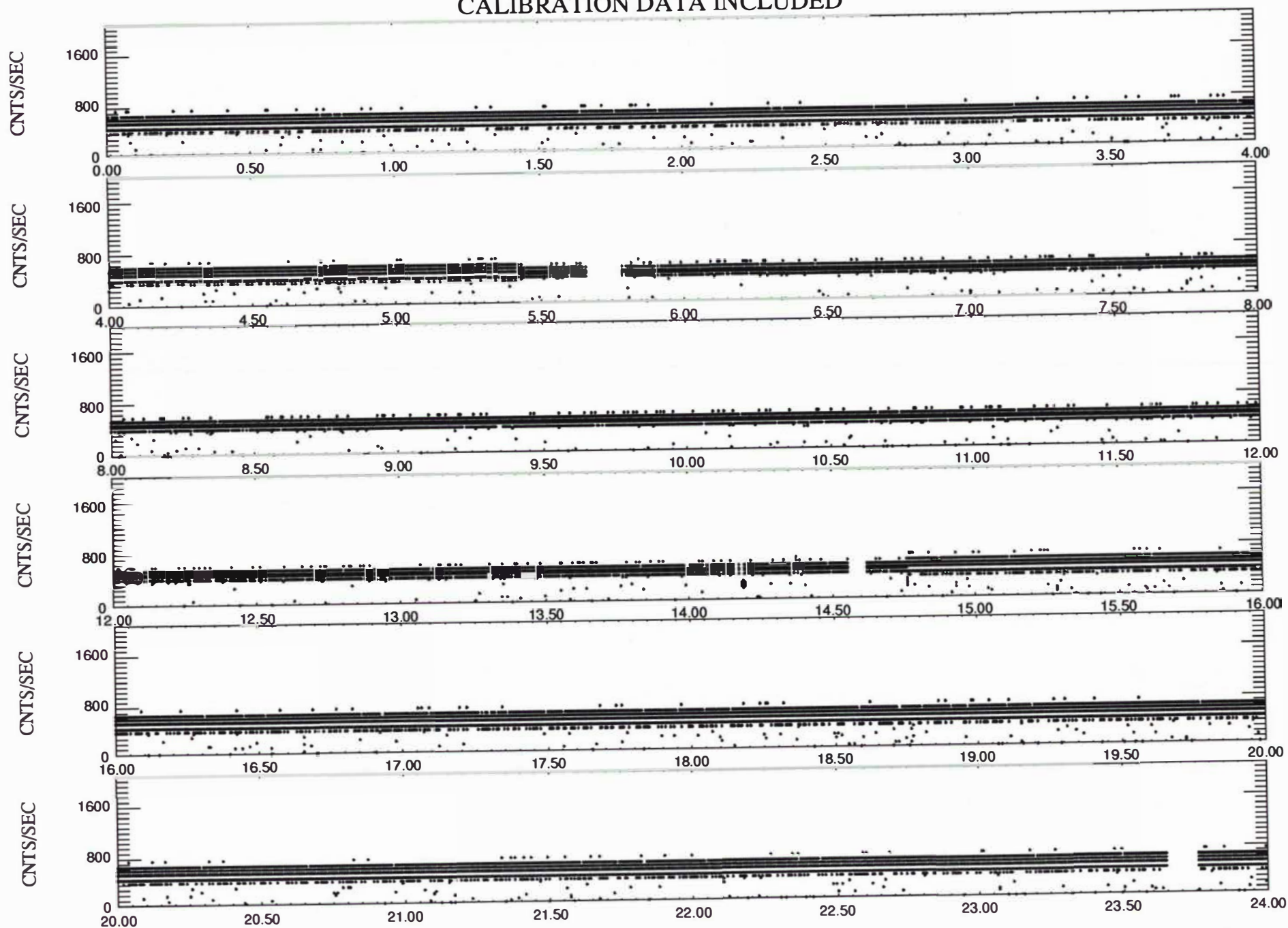
HUS MODES EDR day 247, year 1995 to day 247, year 1995
NO BURST (13)

1/25/96

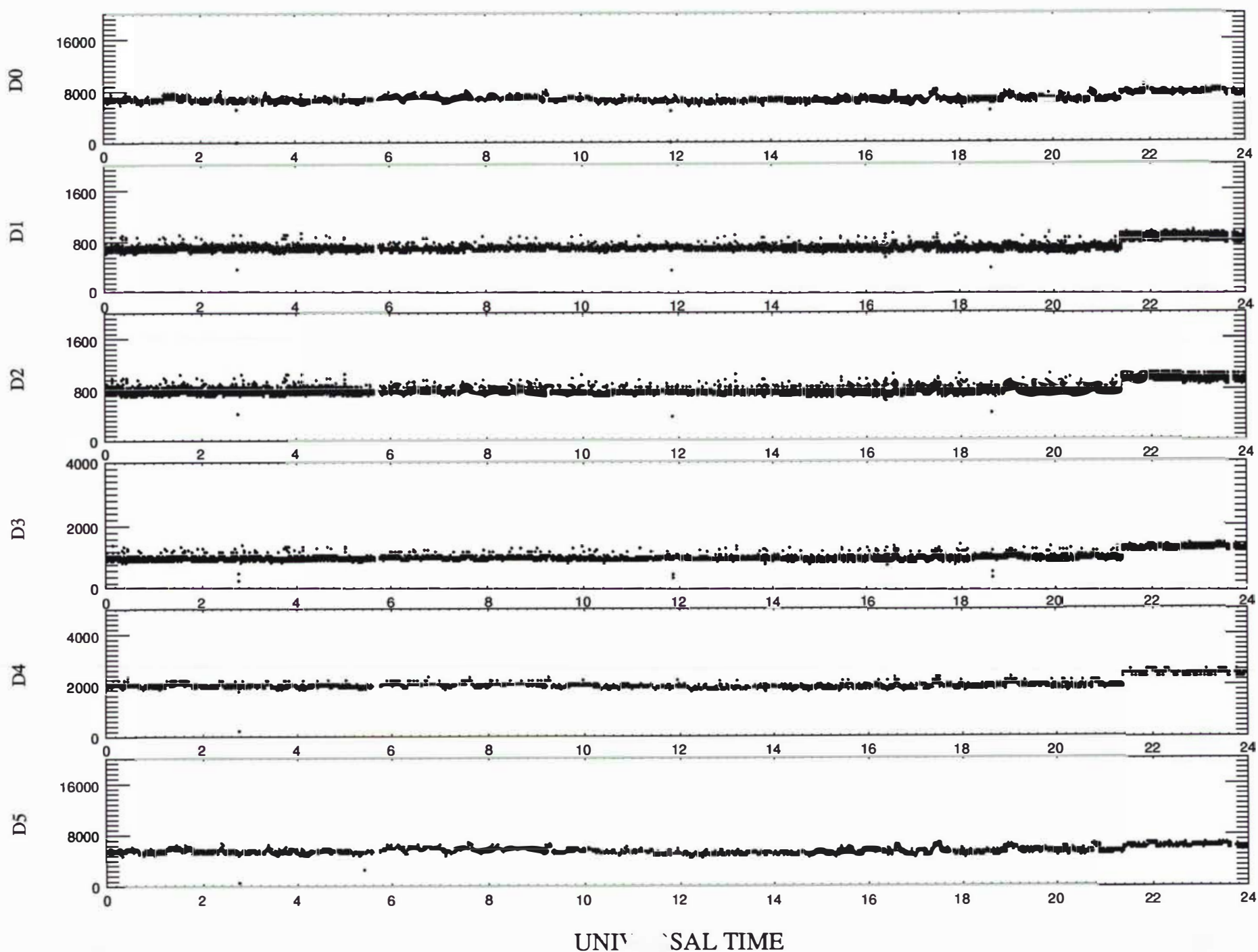


HUS 2A, MODE 1, NOT AVERAGED EDR day 247, year 1995 to day 247, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV AL TIME



From RICHARDSON@SSLLES.MSFC.NASA.GOV Wed Sep 6 10:31 PDT 1995
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
Date: Wed, 6 Sep 1995 12:31:00 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3777

TIME: TJD=9965 SECONDS=48385

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

From RICHARDSON@SSLLES.MSFC.NASA.GOV Wed Sep 6 10:34 PDT 1995
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
Date: Wed, 6 Sep 1995 12:34:16 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3778

TIME: TJD=9965 SECONDS=70719

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

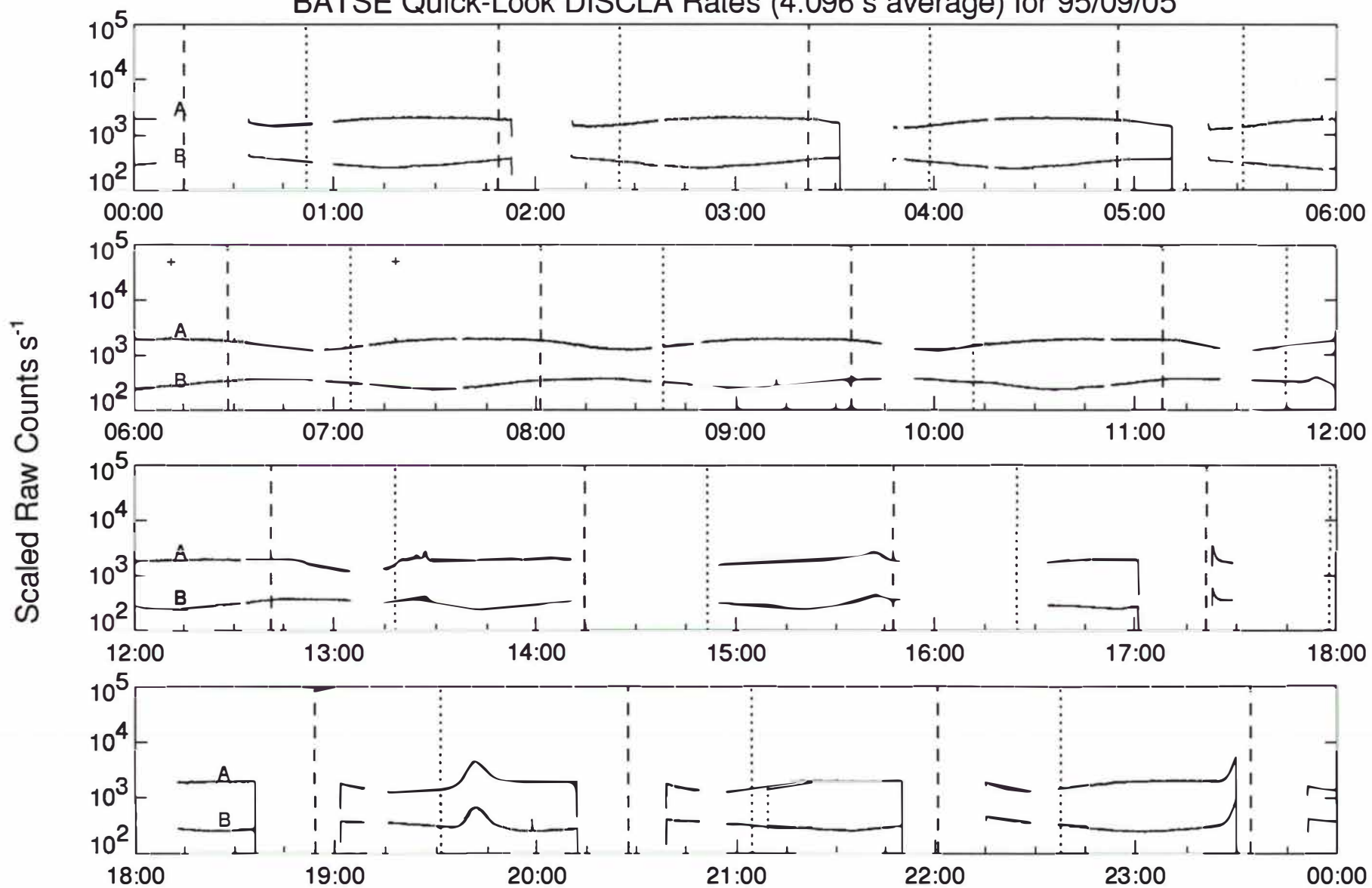
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/05



Current Time: 95/09/11, 1814 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

From BUTTERWORTH@LHEAVX.GSFC.NASA.GOV Mon Oct 23 12:39 PDT 1995
From: BUTTERWORTH@LHEAVX.GSFC.NASA.GOV
Date: Mon, 23 Oct 1995 15:33:35 -0400 (EDT)
To: khurley@sunspot.ssl.berkeley.edu, kmarar@isac.ernet.in, jterrell@lanl.gov,
CLINE@LHEAVX.GSFC.NASA.GOV, scott@circe.gsfc.nasa.gov
CC: BUTTERWORTH@LHEAVX.GSFC.NASA.GOV
Subject: The Ulysses event at 11.56UT on 5 September was also seen by Konus

Hi Everyone,

GSFC Building 2 has been cut of from the world for a couple of days,
because of a security incident, so the message below only just came through.

Konus saw the event for about 20s with a trigger at 11:51:31.780. The triggering feature lasted several seconds and was followed by a stronger and more complex feature from 7 to 20 seconds after the trigger. The event was seen by both the Konus detectors (though it was considerably stronger in the one that faces north) which means it must have been fairly close to the ecliptic.

Paul.

Date: Sat, 21 Oct 1995 10:08:34 -0700
From: root@charybdis.ssl.berkeley.edu (0000-Admin(0000))
Message-Id: <9510211708.AA04275@charybdis.>
To: butterworth@lheavx.gsfc.nasa.gov, cline@lheavx.gsfc.nasa.gov,
jterrell@lanl.gov, khurley@sunspot.ssl.berkeley.edu,
kmarar@isac.ernet.in, scott@xtelab.gsfc.nasa.gov

ULYSSES GAMMA-RAY BURST NOT REPORTED BY BATSE:

Ulysses triggered on a 5 s long event September 5 1995 around 11:56 UT at Ulysses. The spacecraft was about 1300 light-seconds from Earth. Was this event detected by anyone else?

CC: ulyssesbursts alias list
(barthelmy, butterworth, cline, marar, terrell)

Date: Aug 31 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

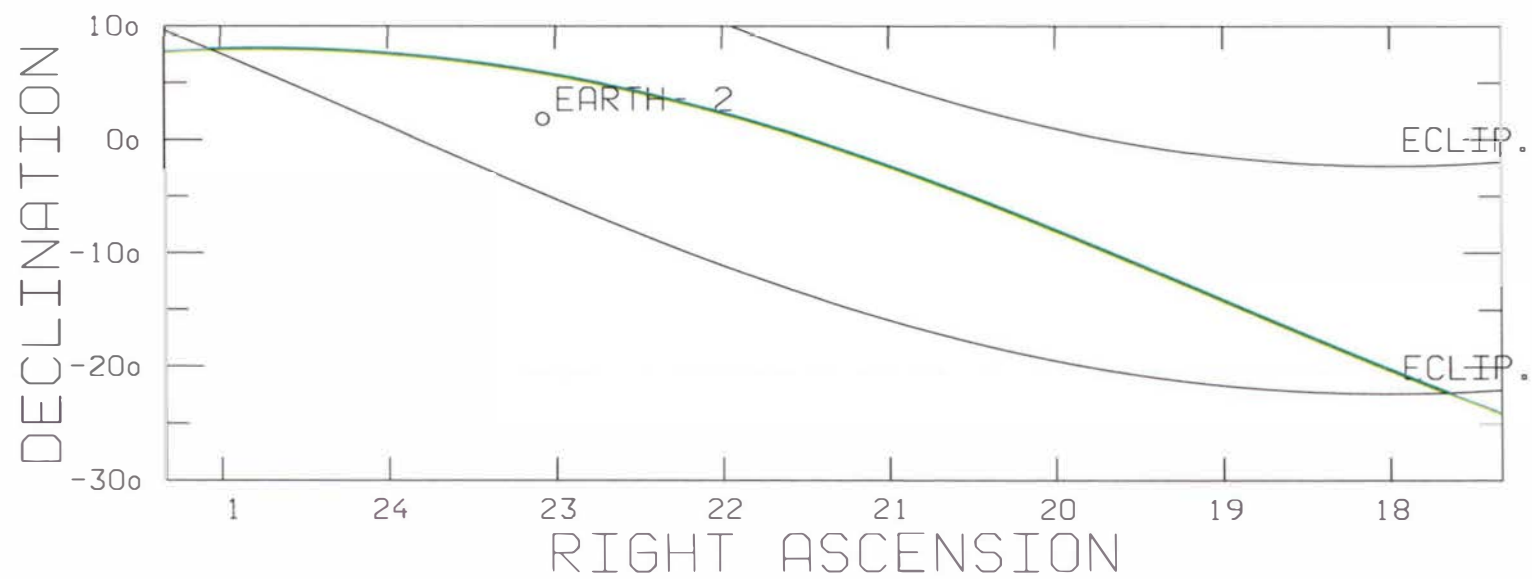
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is done on the data with the best time resolution?

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)?
- ☐ BATSE ephemeris for T_0 ?
- ☐ Error circle position and radius from public catalog used?
- ☐ If MER data were used, is a 30 ms systematic error included?

3. PVO Data

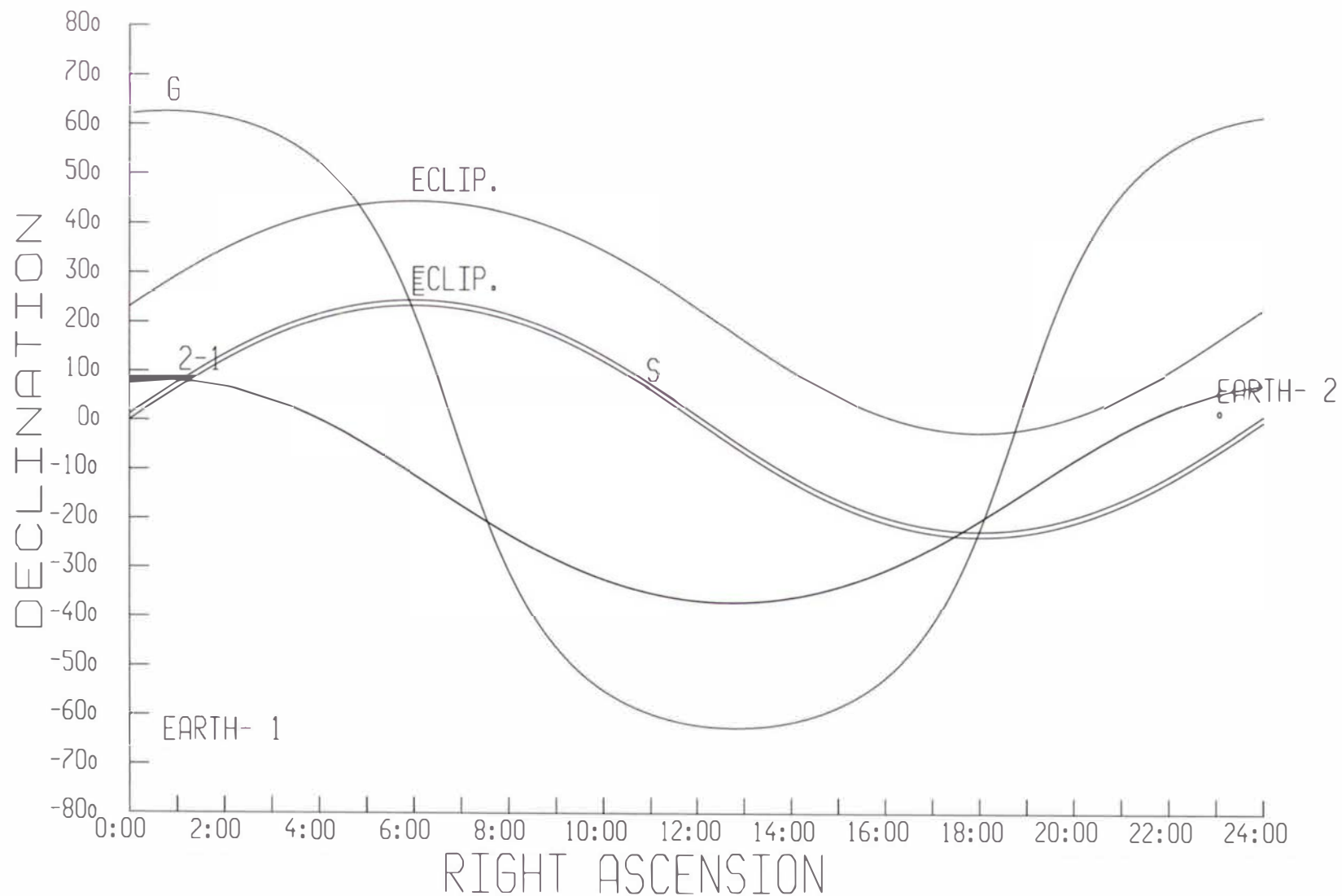
- ☐ Ephemeris of PVO used (not Venus)?
 - ☐ 2000 coordinates used?
 - ☐ Geocentric time used?
-
- ☒ ACCESS and MBL databases updated with identical times?

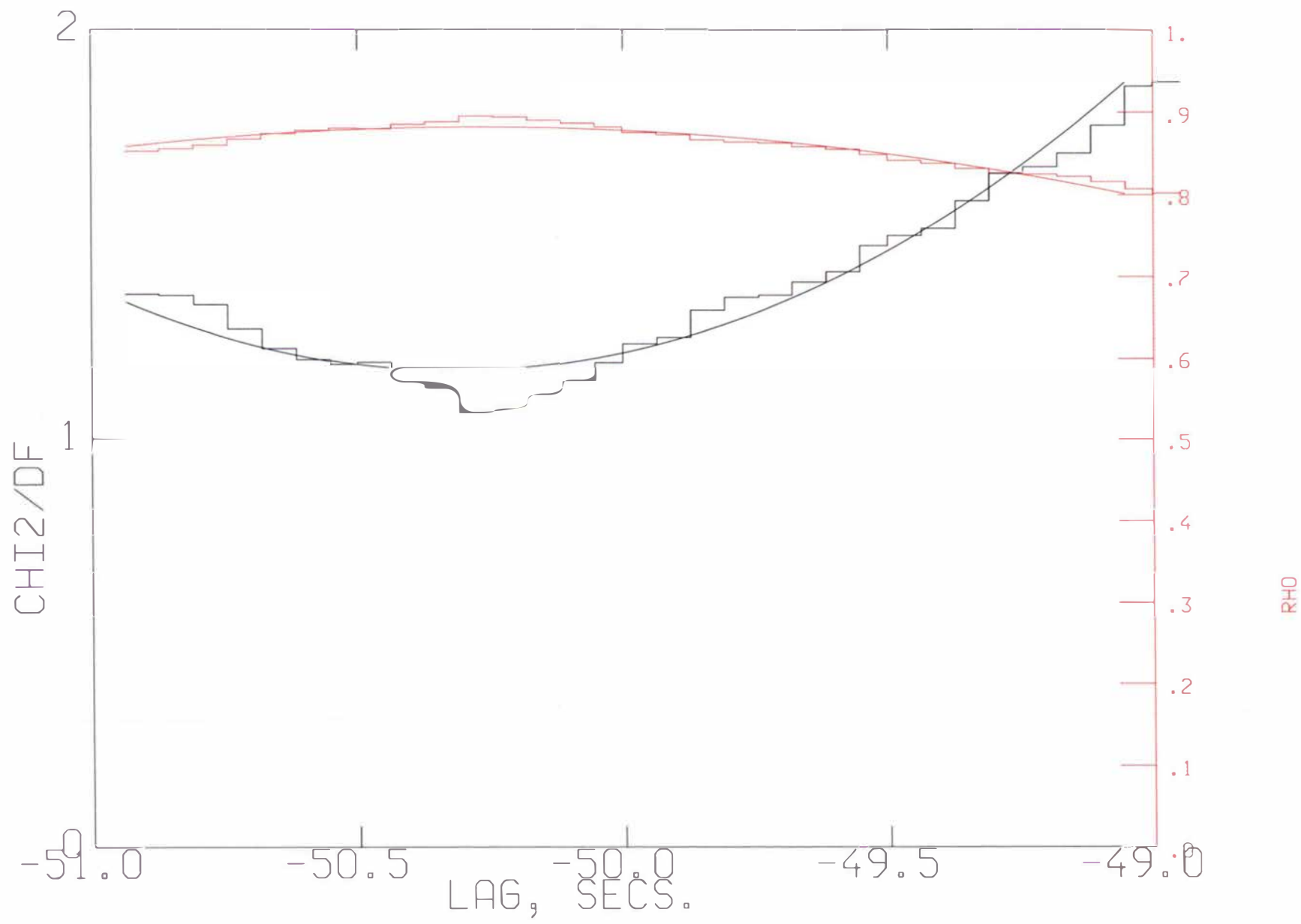


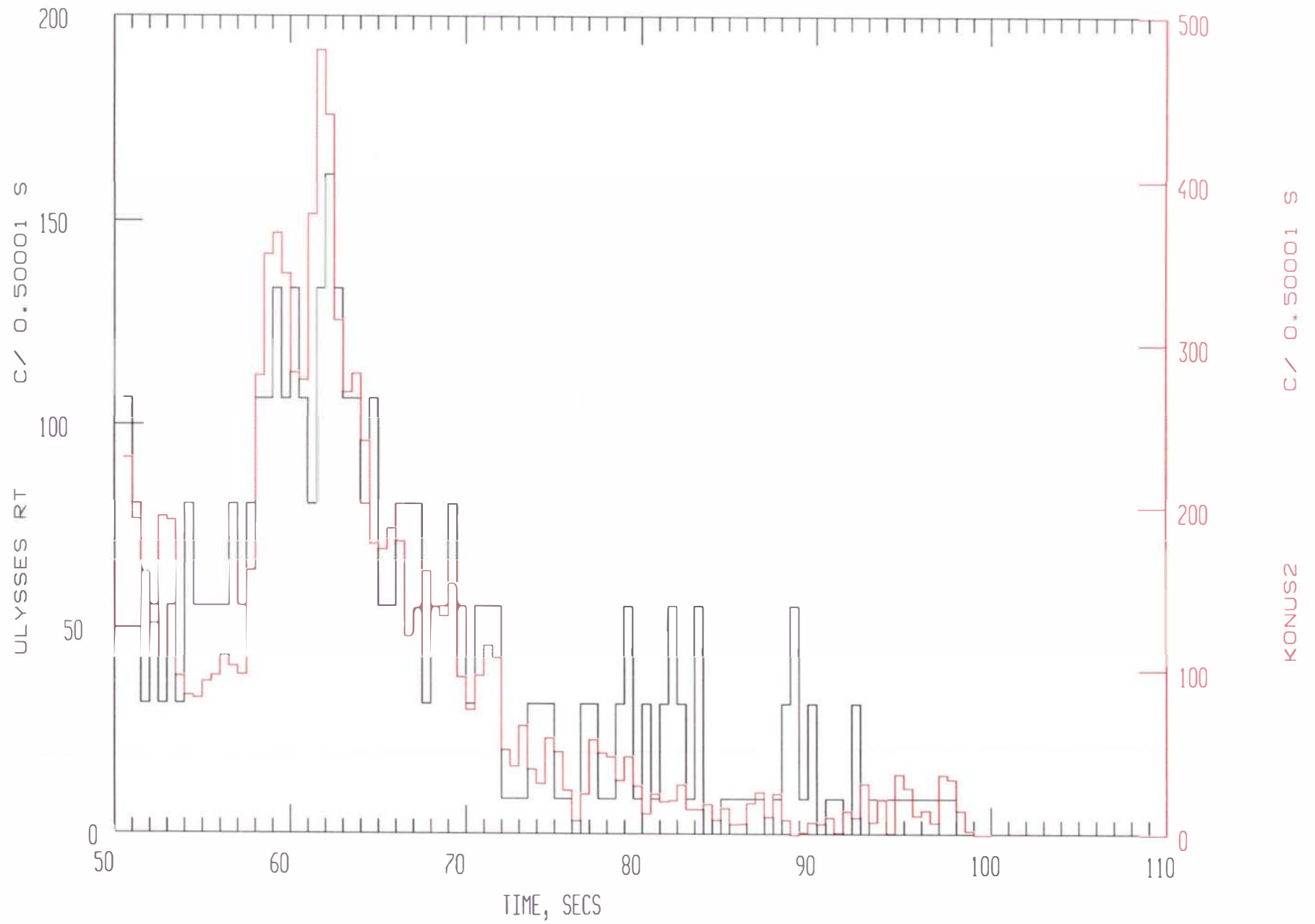
EVENT OF SEP 5, 1995 11:55

31/08/2011

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







KONUS 19950905 43016

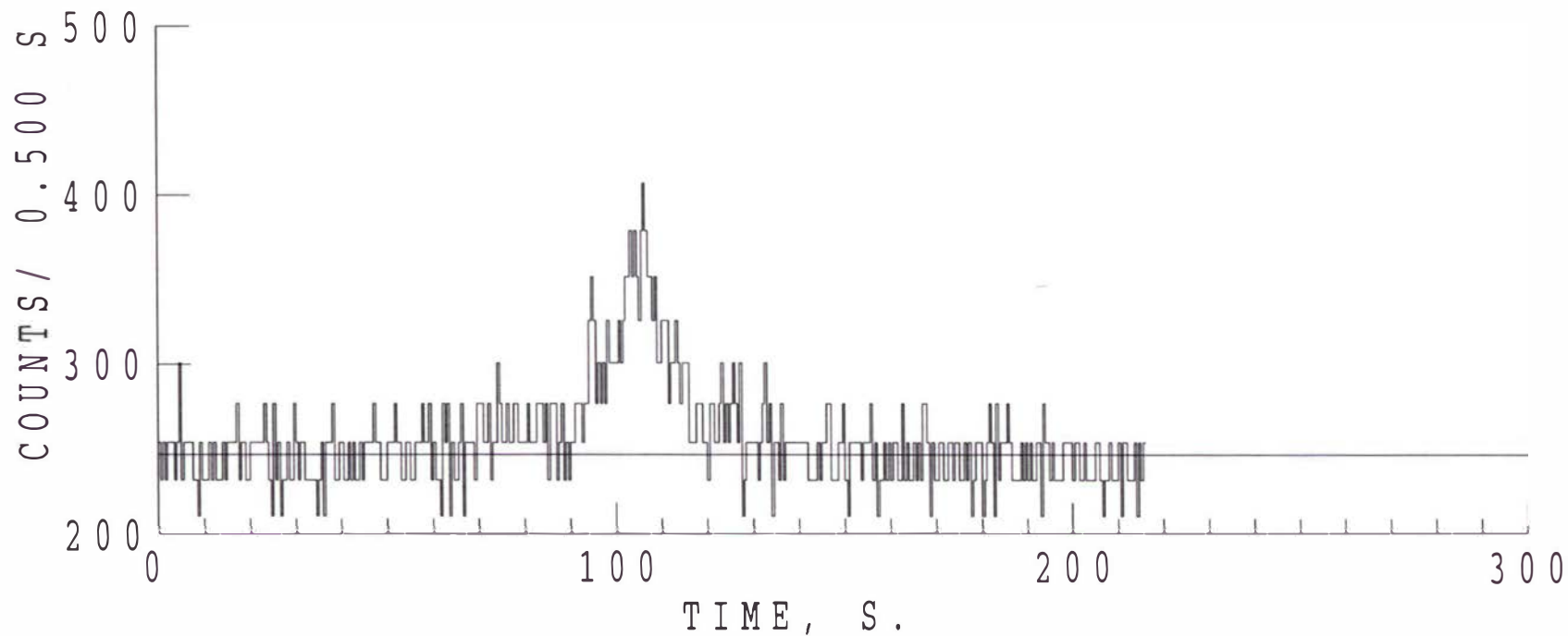
ULYSSES RT

30/08/11

05/09/95 42912.176 s

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



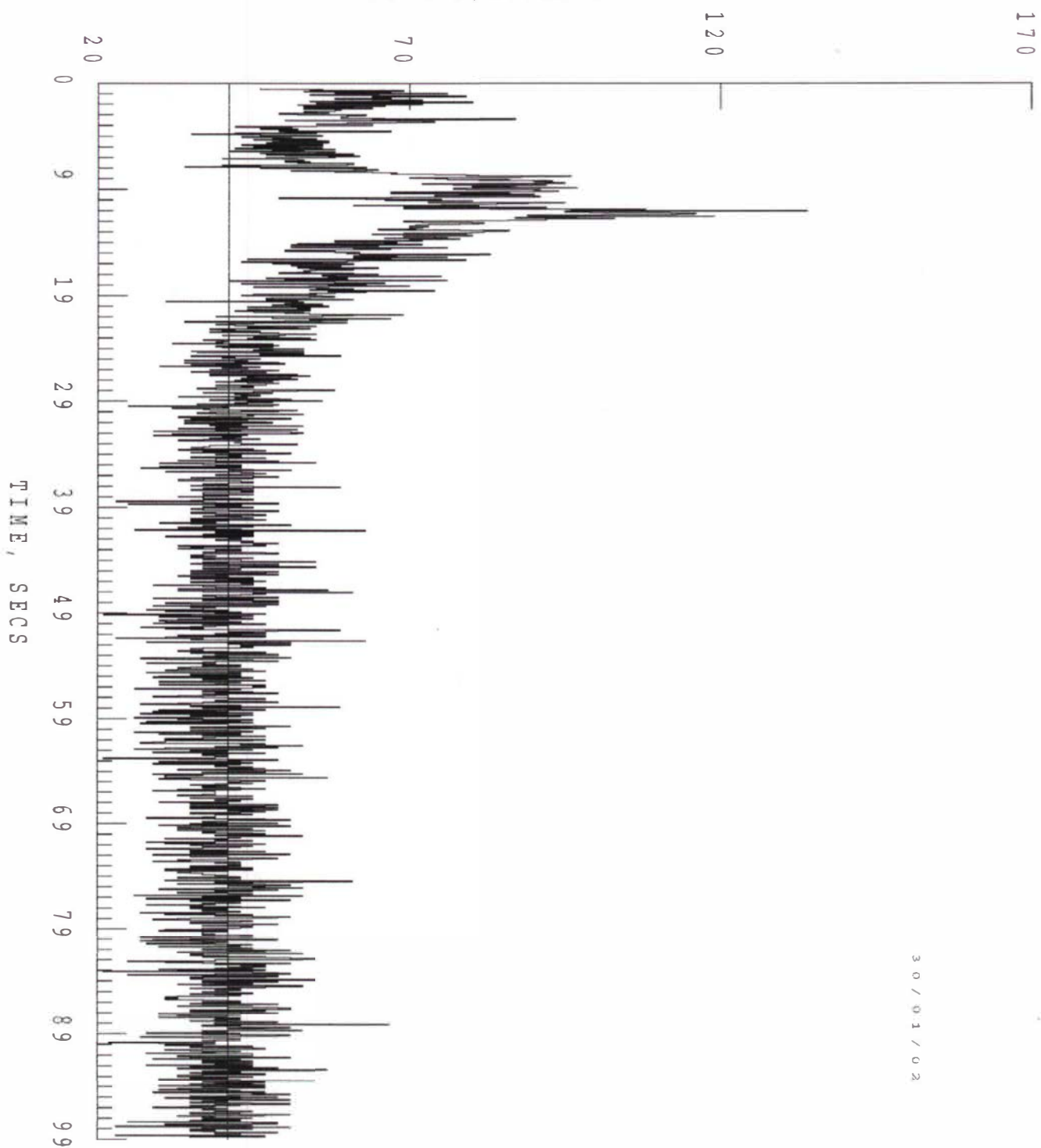
KONUS2

05/09/95

42691.780

50 - 200 keV

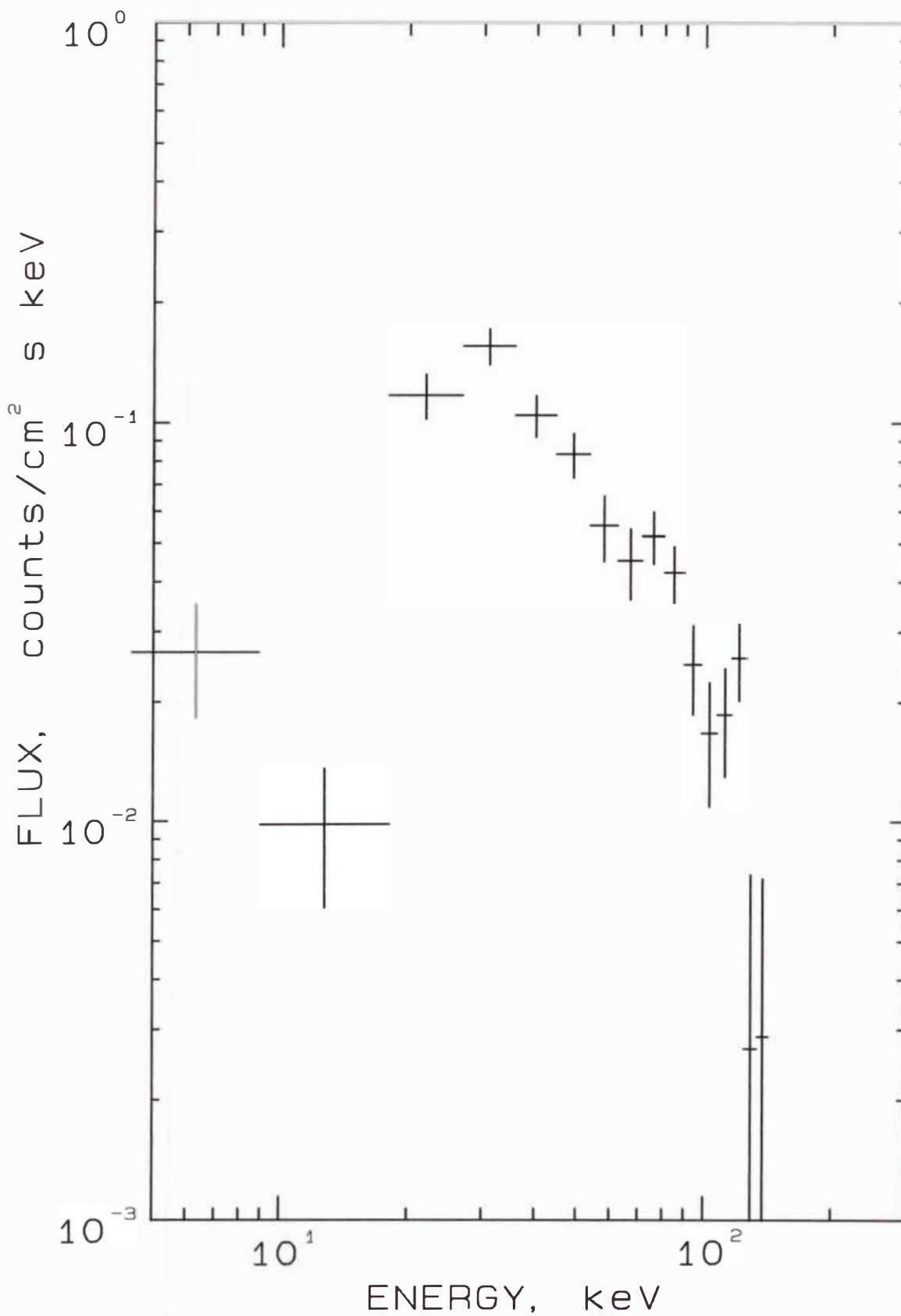
COUNTS/0.064 S



ULYSSES 05/09/95 43016.670

26/ 3/98

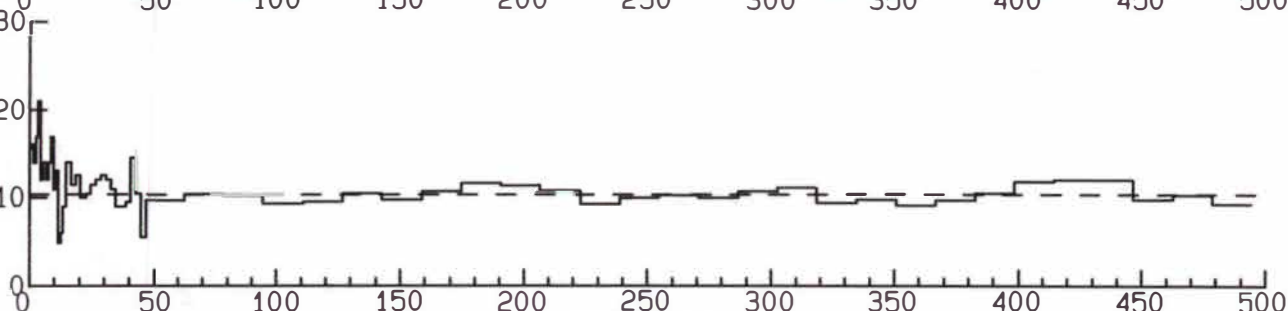
SPECTRUM INTEGRATED OVER 20.6 SECONDS, INTERVALS 2 TO 20



ULYSSES 05/09/95 43016.670 BURST SPECTRAL COUNT RATES

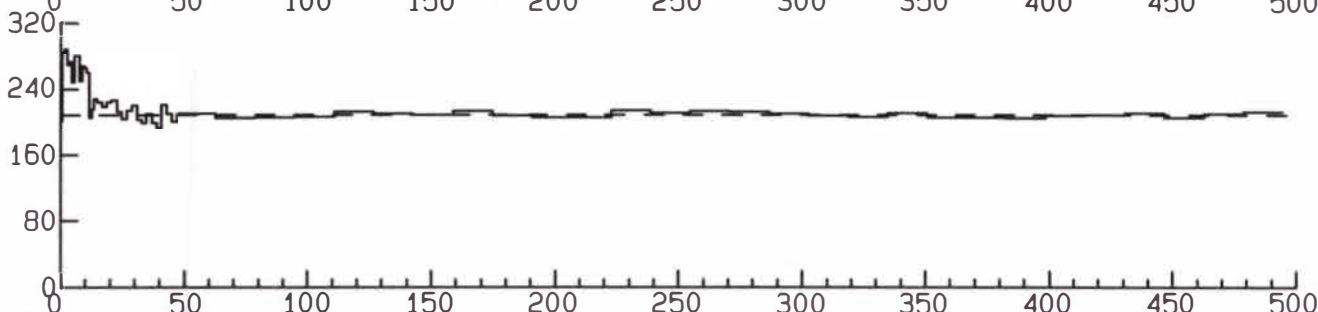
4- 17 keV

COUNTS/S



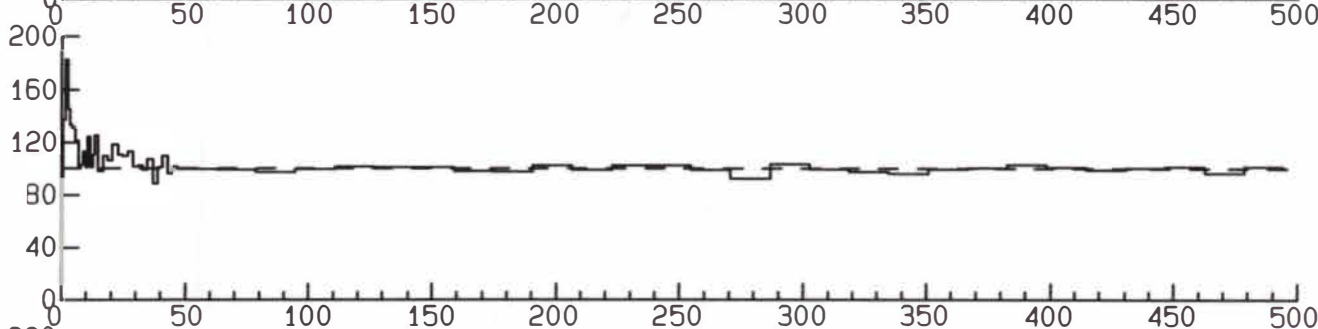
17- 44 keV

COUNTS/S



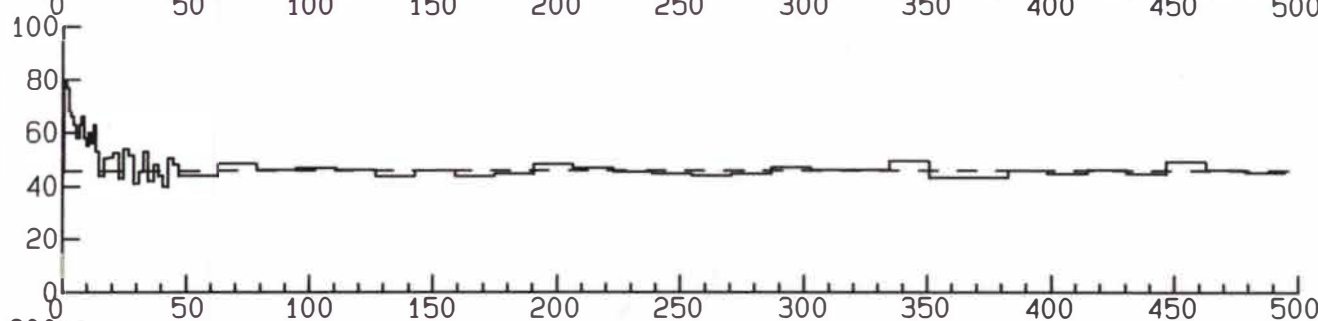
44- 71 keV

COUNTS/S



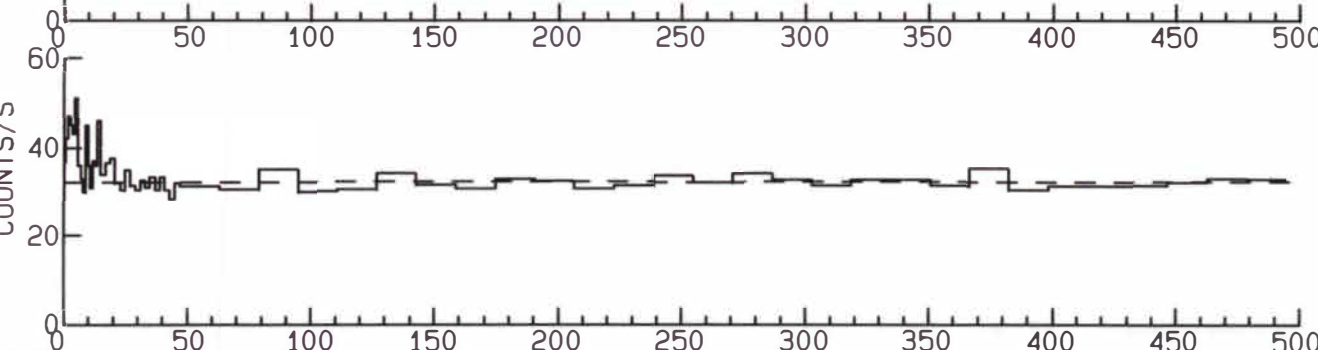
71- 98 keV

COUNTS/S



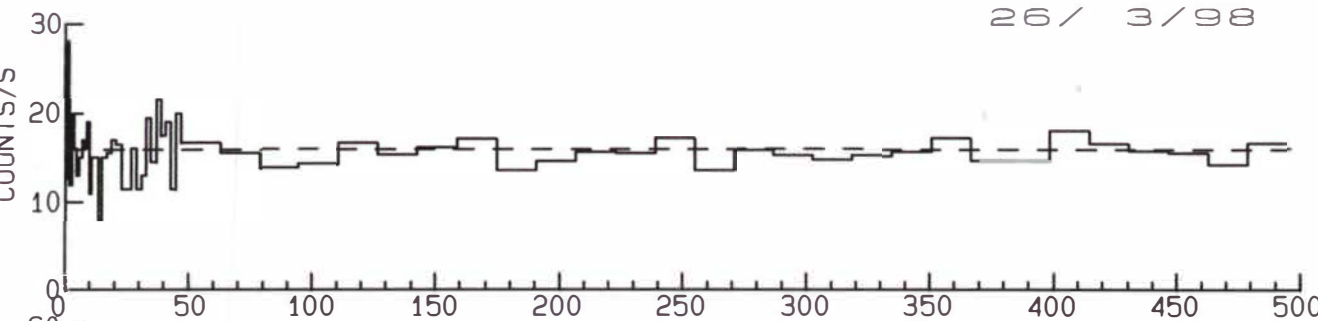
98-124 keV

COUNTS/S



124-142 keV

COUNTS/S



26 / 3 / 98

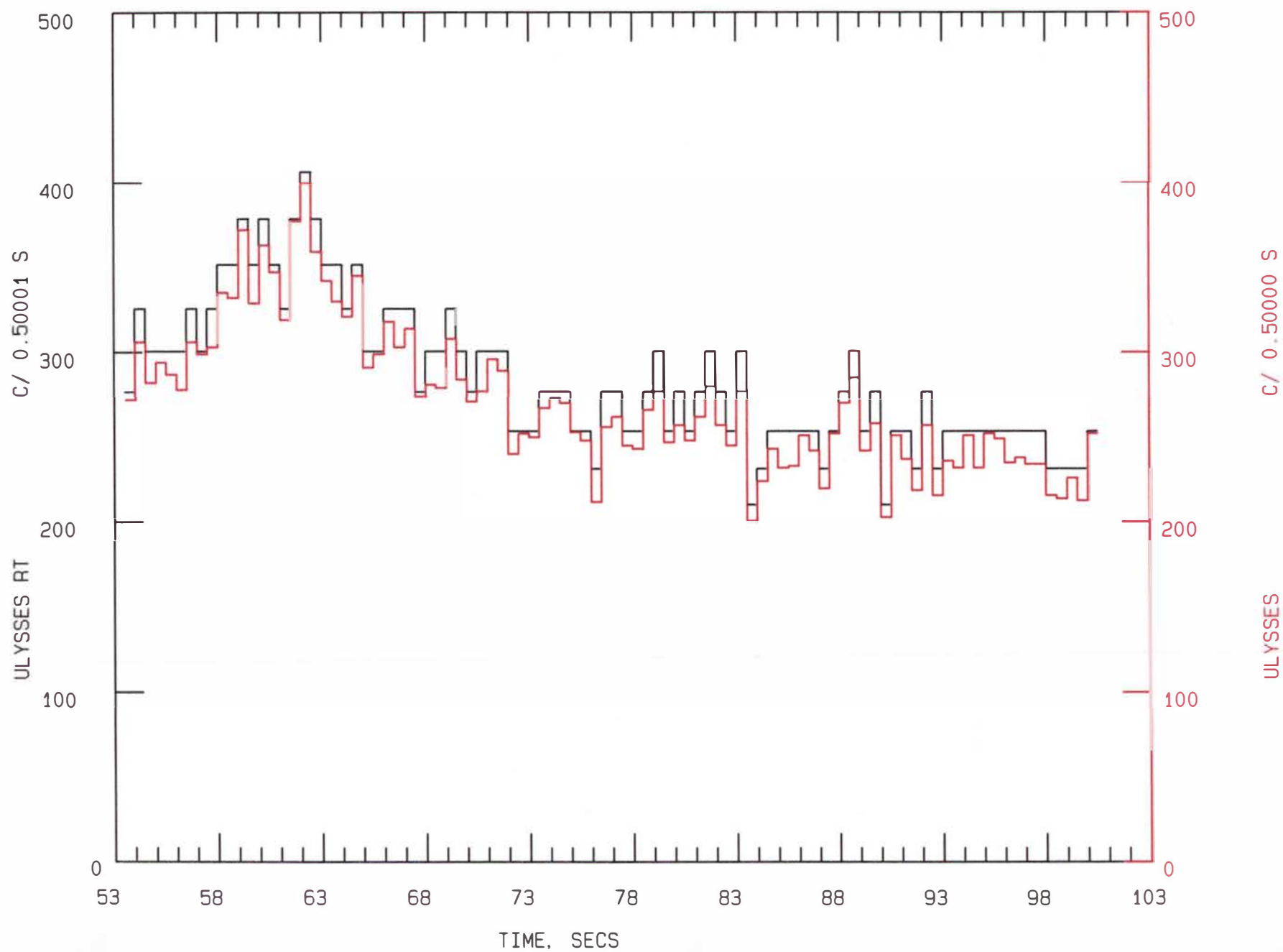
ULYSSES RT-ULYSSES

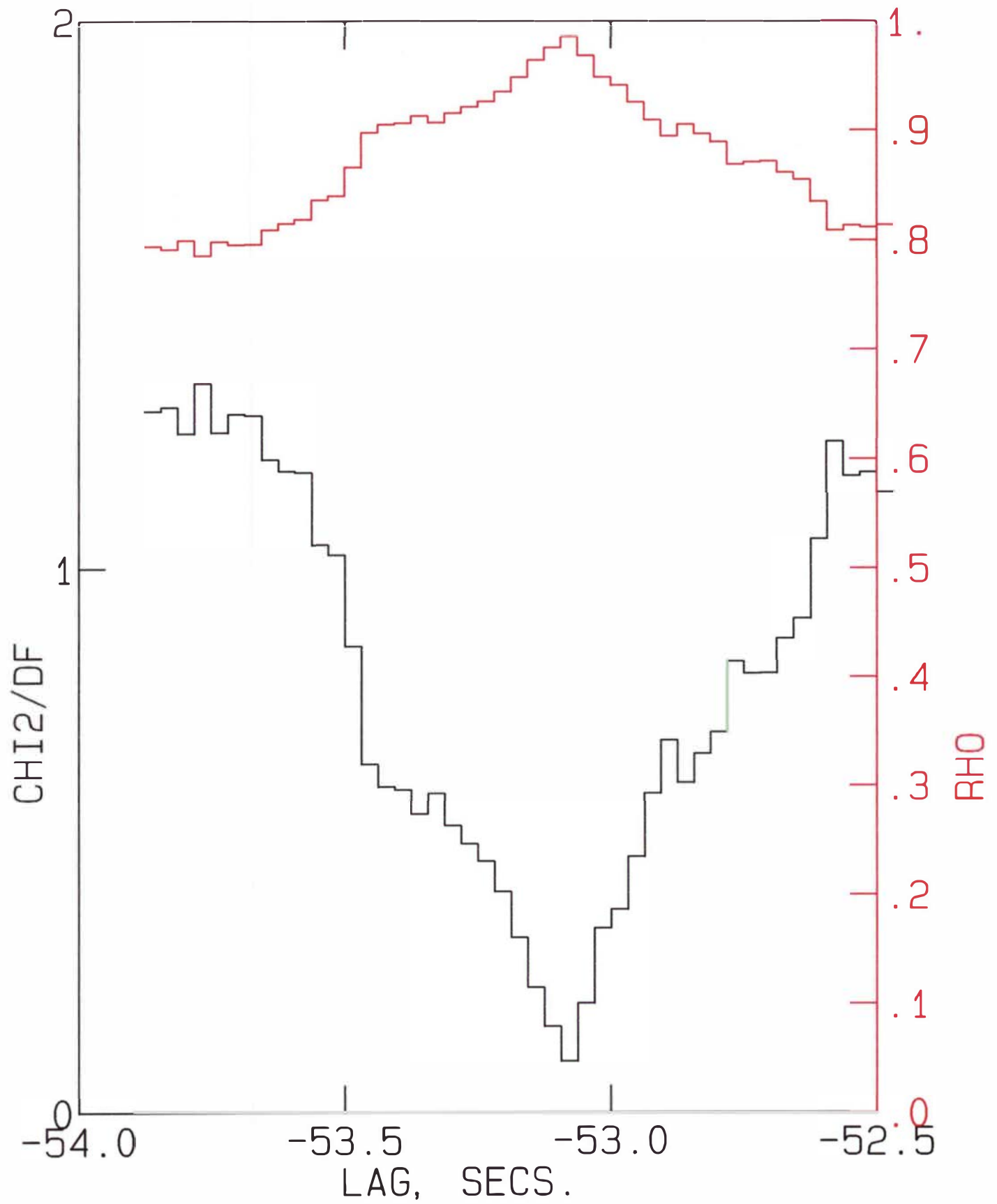
CORRELATION

5/ 9/95

42956.330

26/ 3/98





ULYSSES

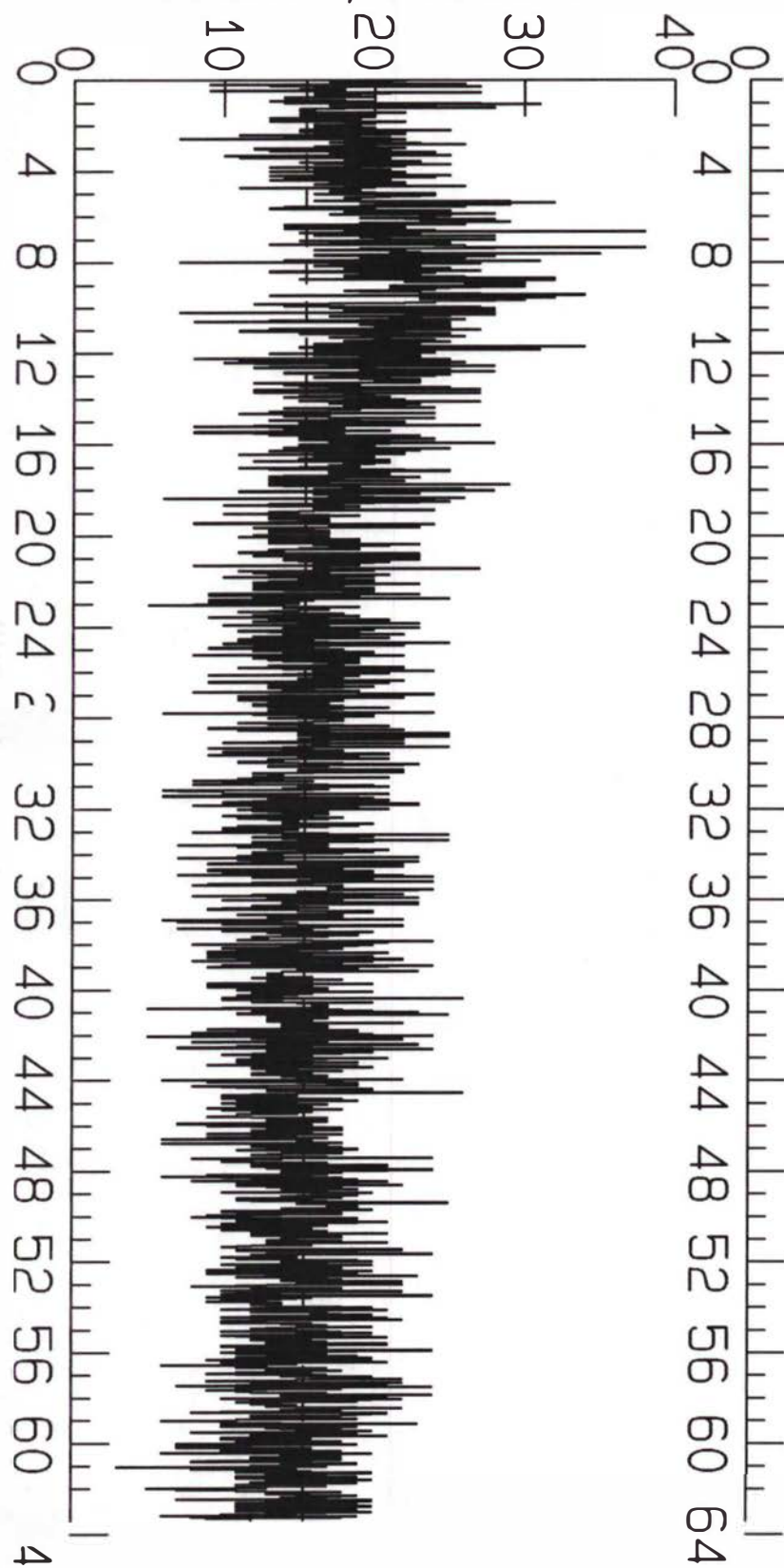
05/09/95

Ttrig=43016.831

21- 143 keV

COUNTS/0.031 S

COUNTS/0.125 S

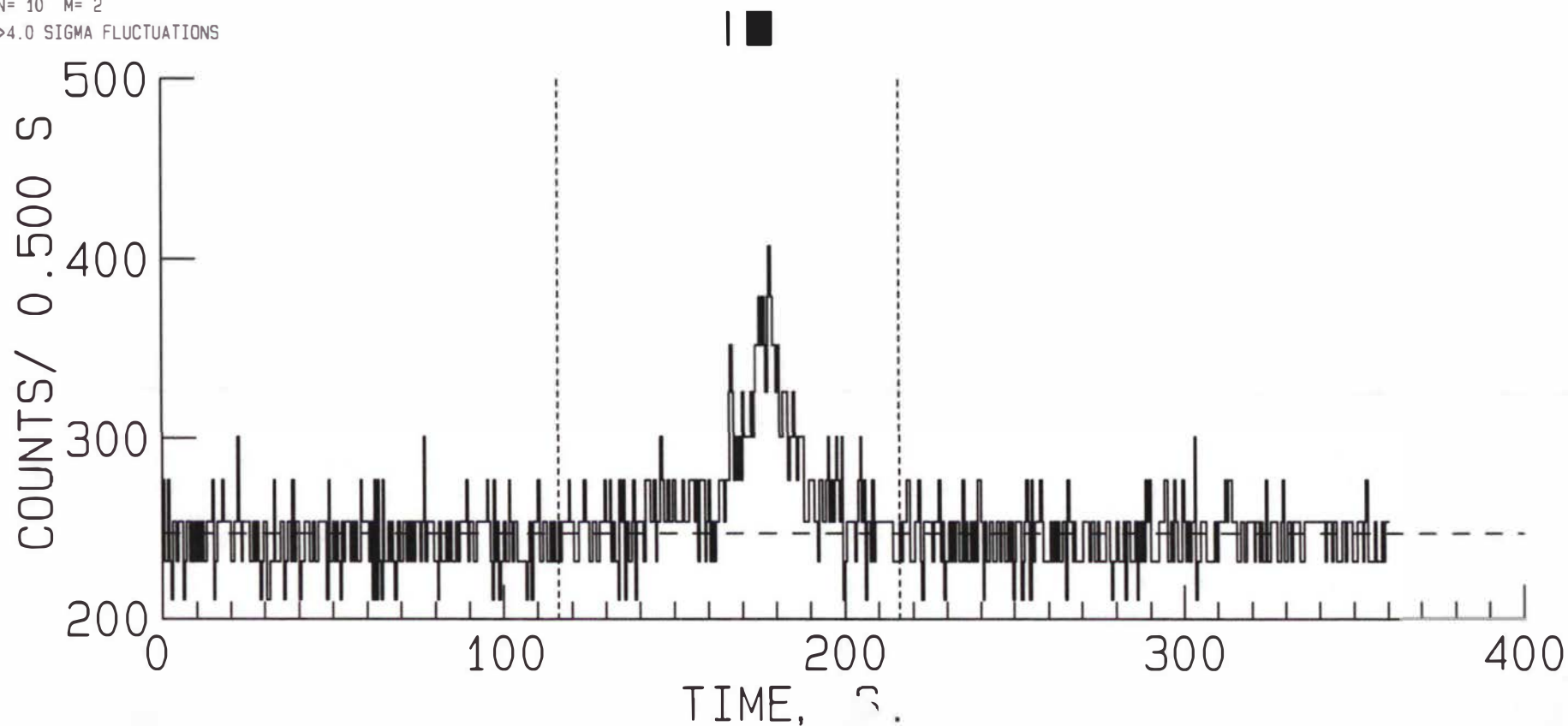


26 / 3 / **

ULYSSES RT
5/ 9/95 42840.178 s
21- 143 keV

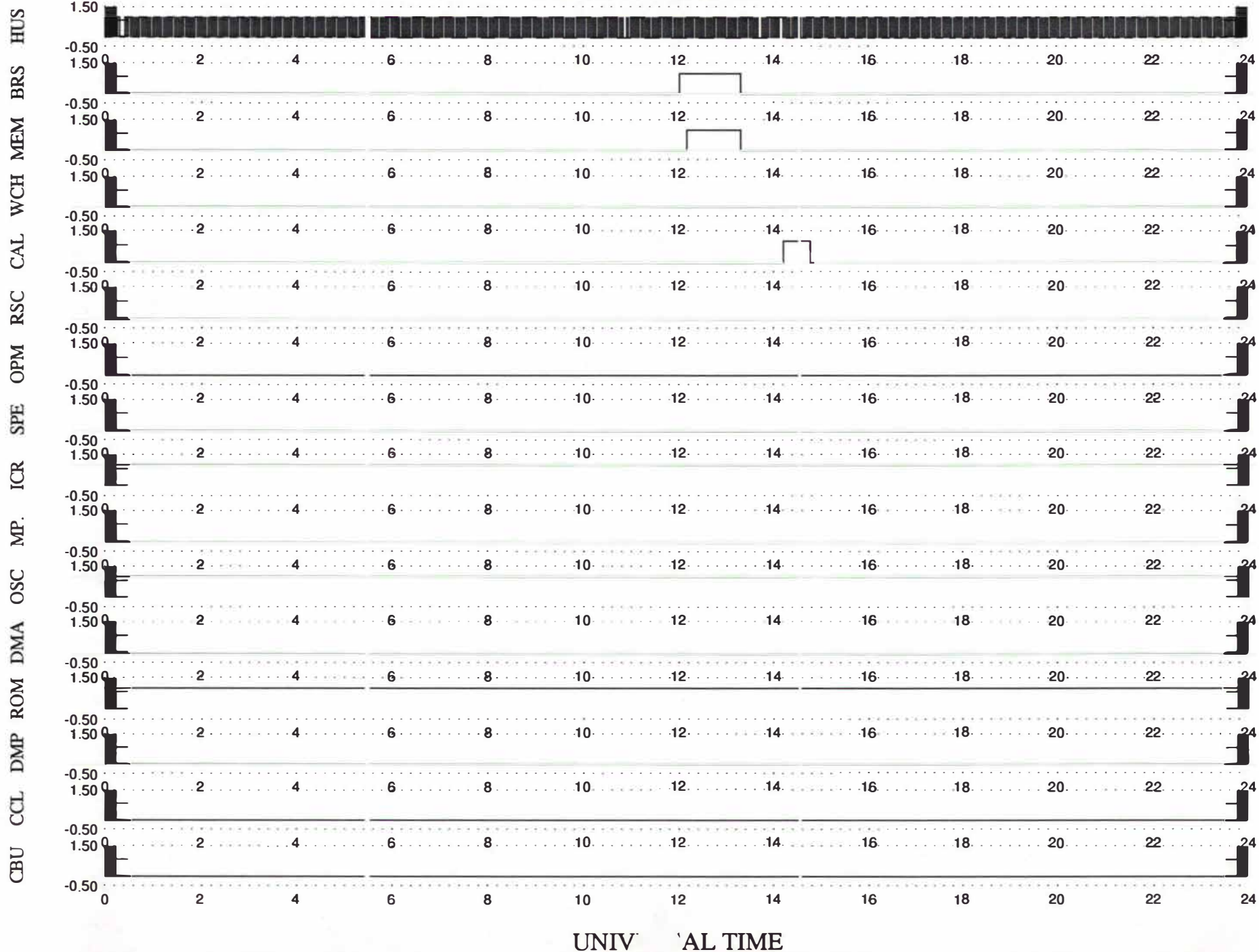
26 / 3 / 98

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



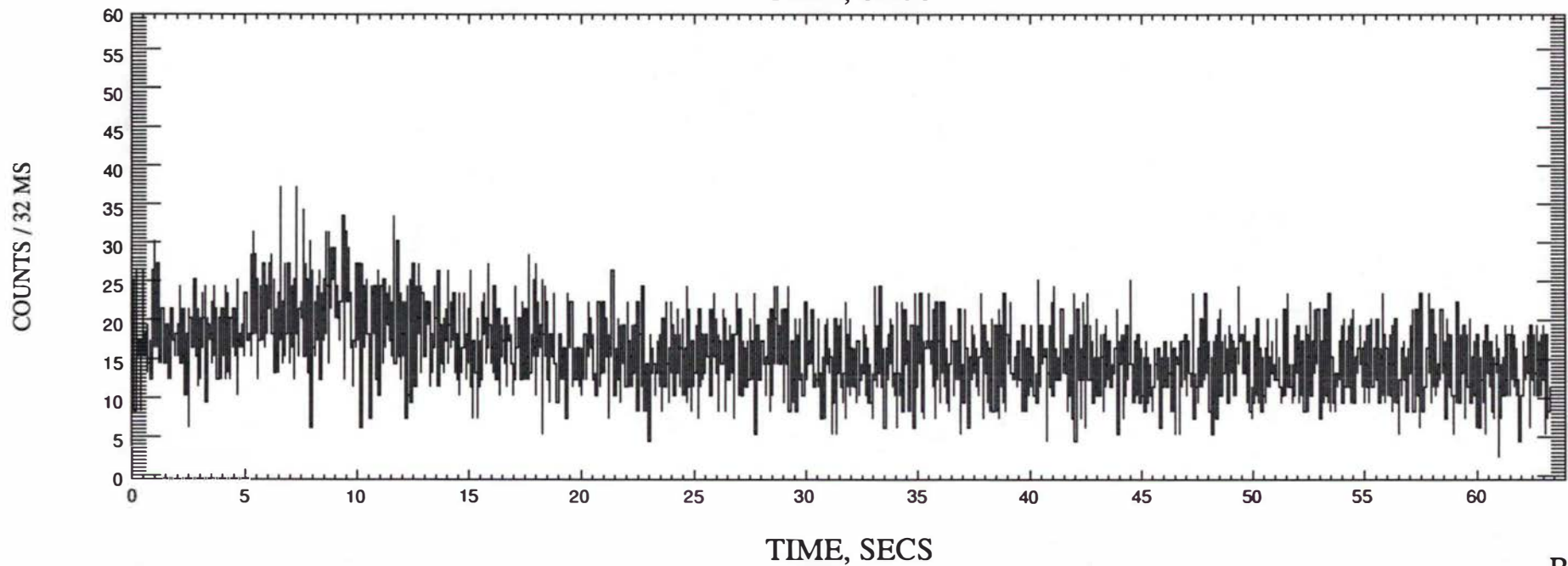
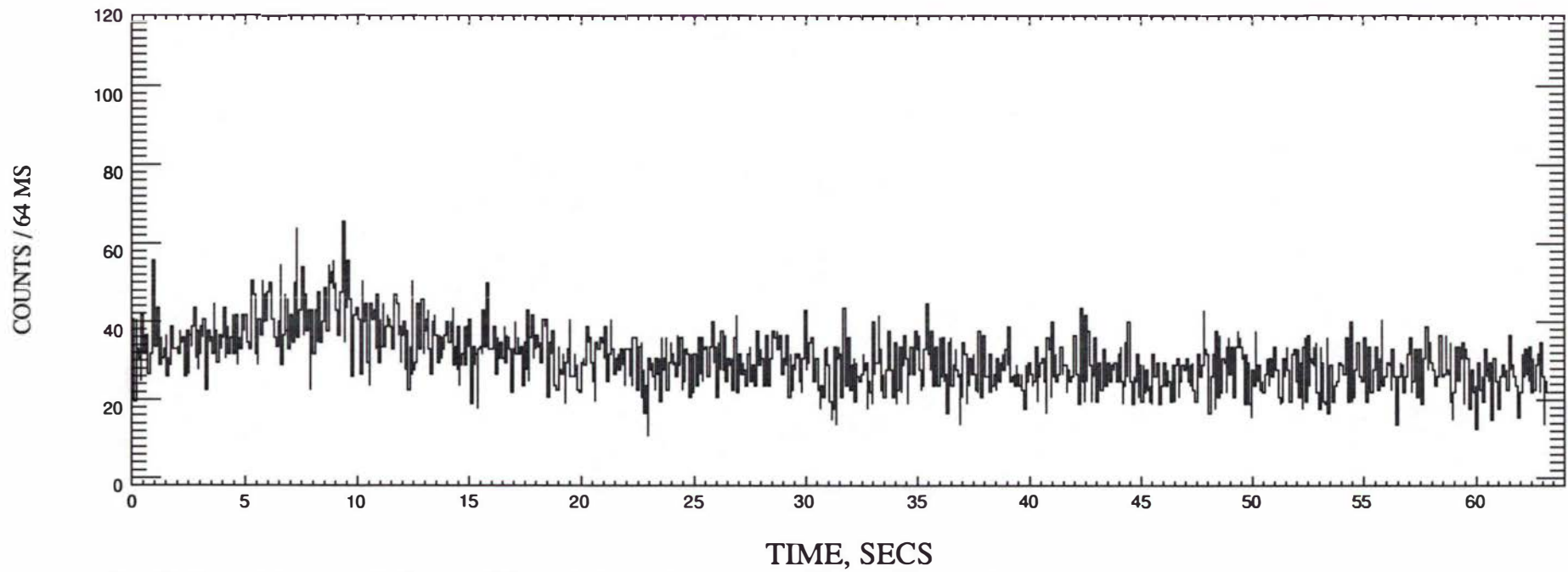
HUS MODES EDR day 248, year 1995 to day 248, year 1995
BURST NUMBER 14

1/25/96



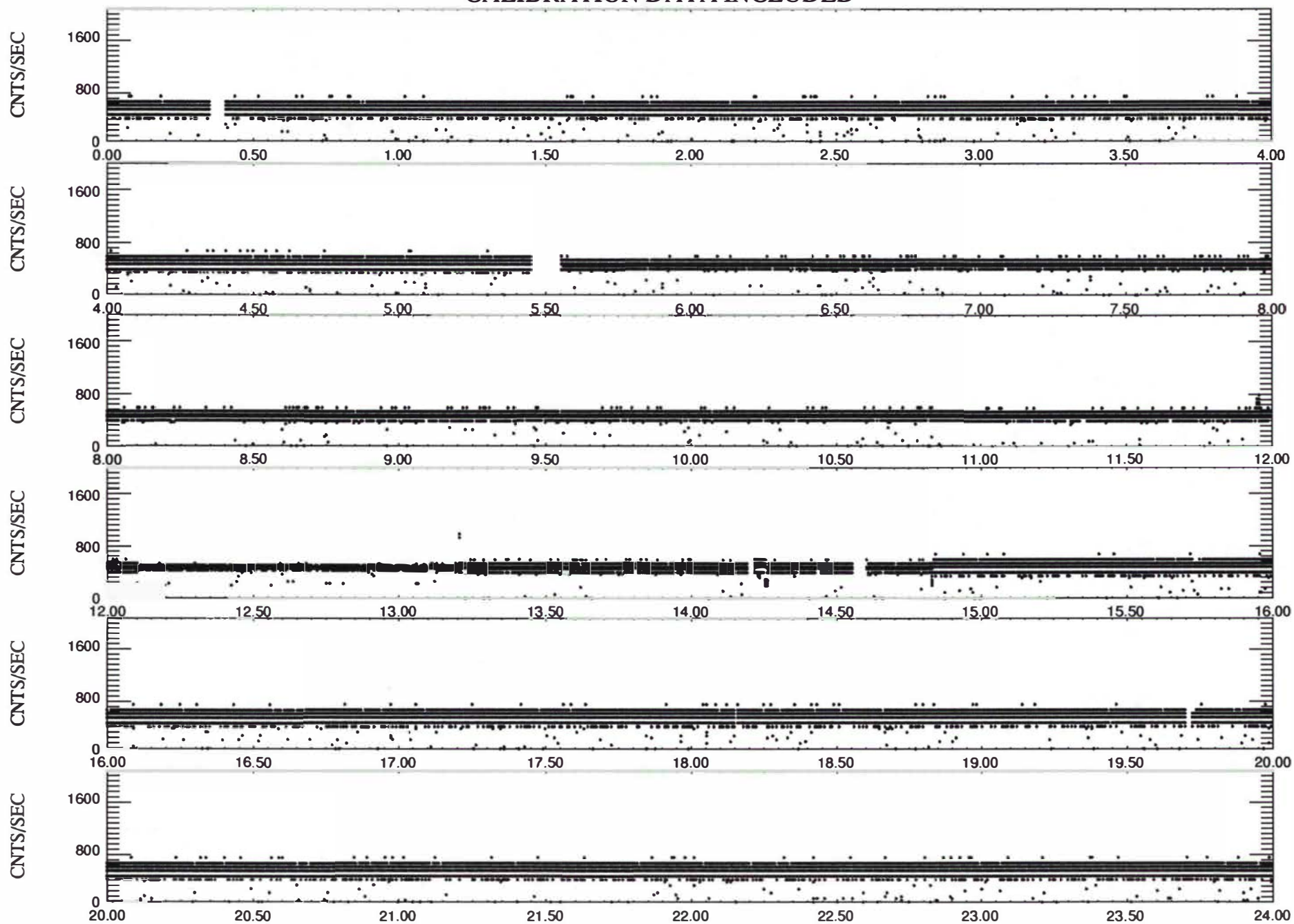
HUS 2A TRIGGERED DATA EDR day 248, year 1995
Burst Counter 14 at UT=11.949075071547 h=43016.670 s 11:56:56.670

1/25/96

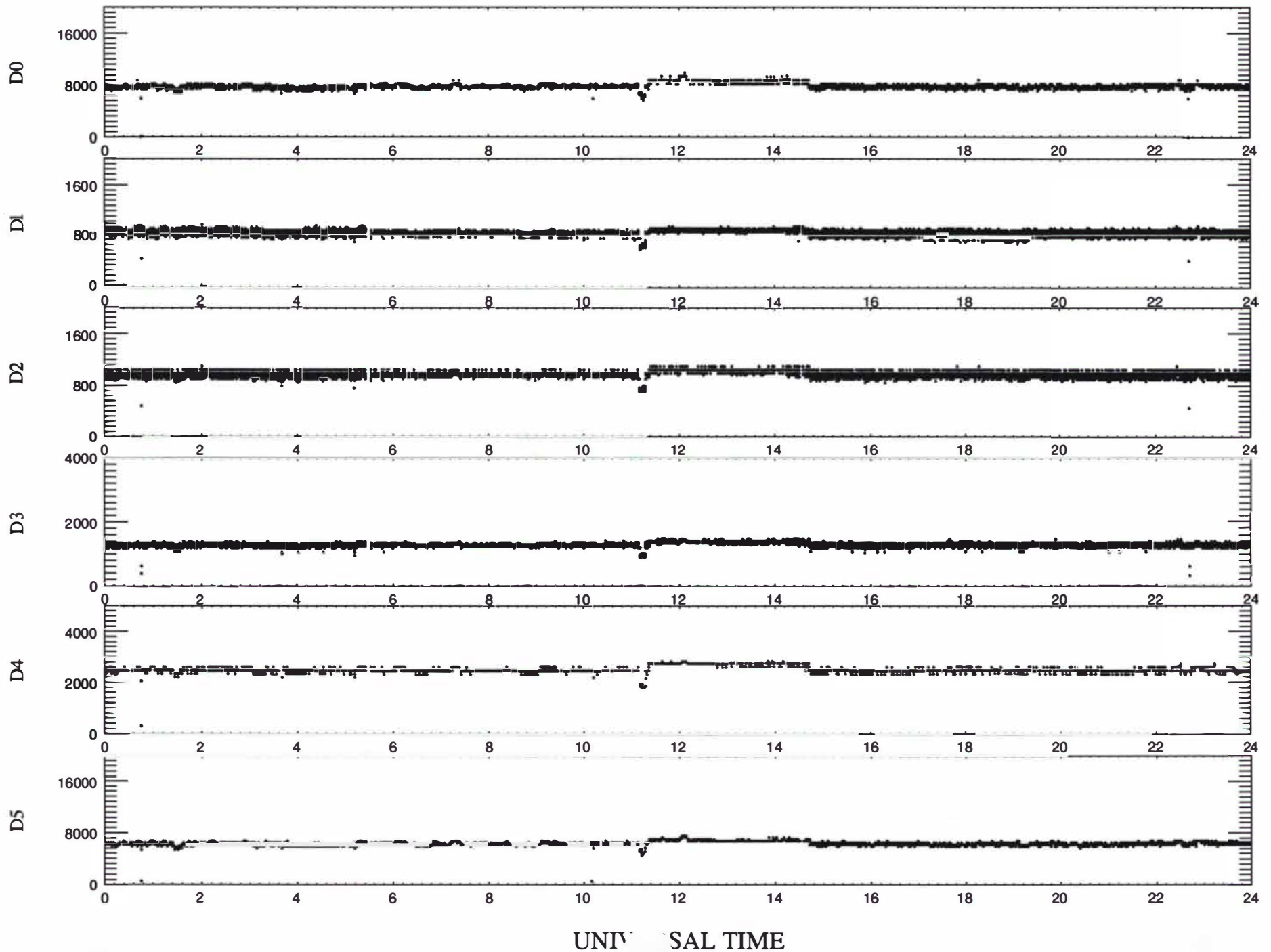


HUS 2A, MODE 1, NOT AVERAGED EDR day 248, year 1995 to day 248, year 1995
CALIBRATION DATA INCLUDED

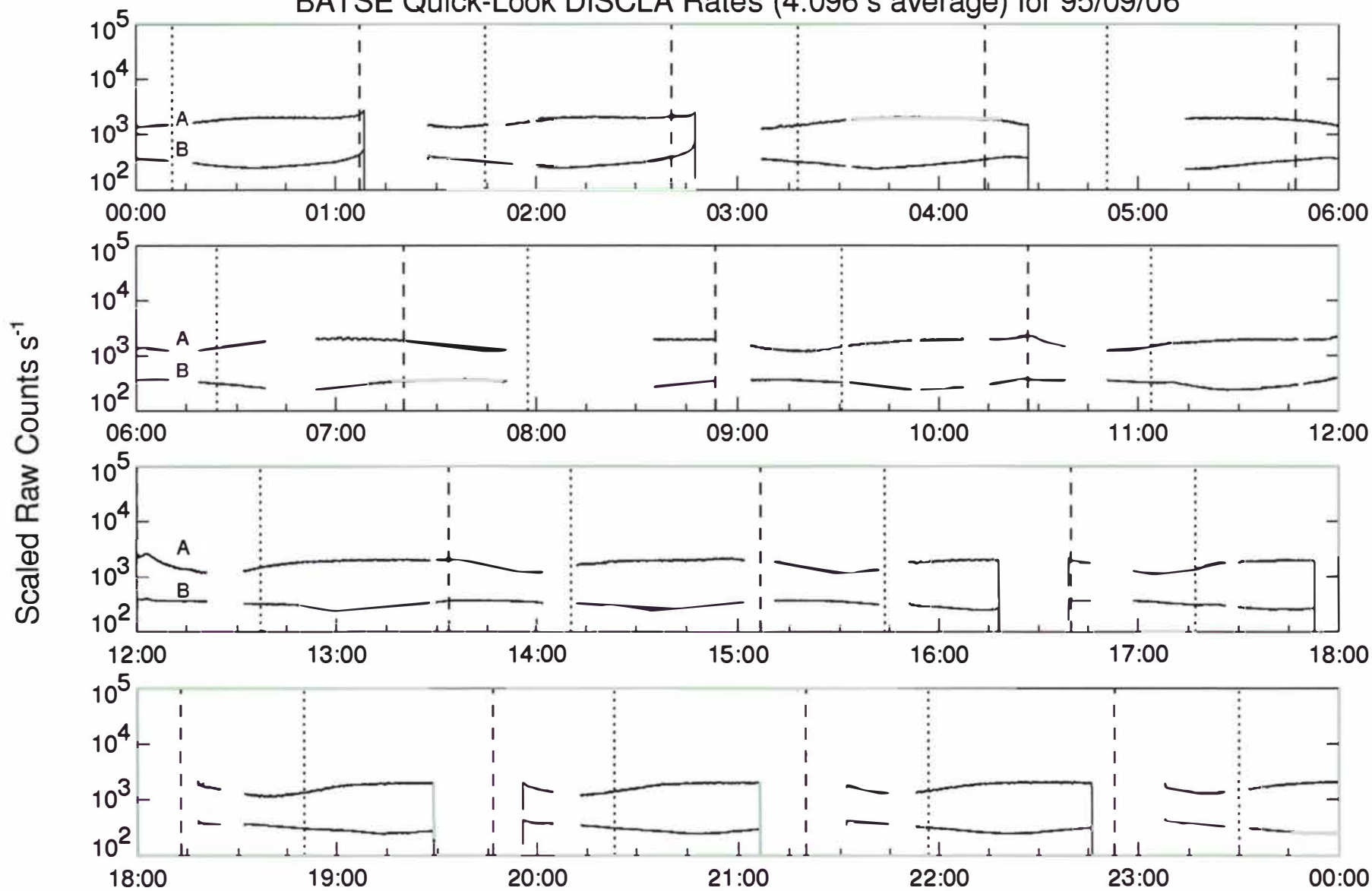
1/25/96



UNIV AL TIME



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/06



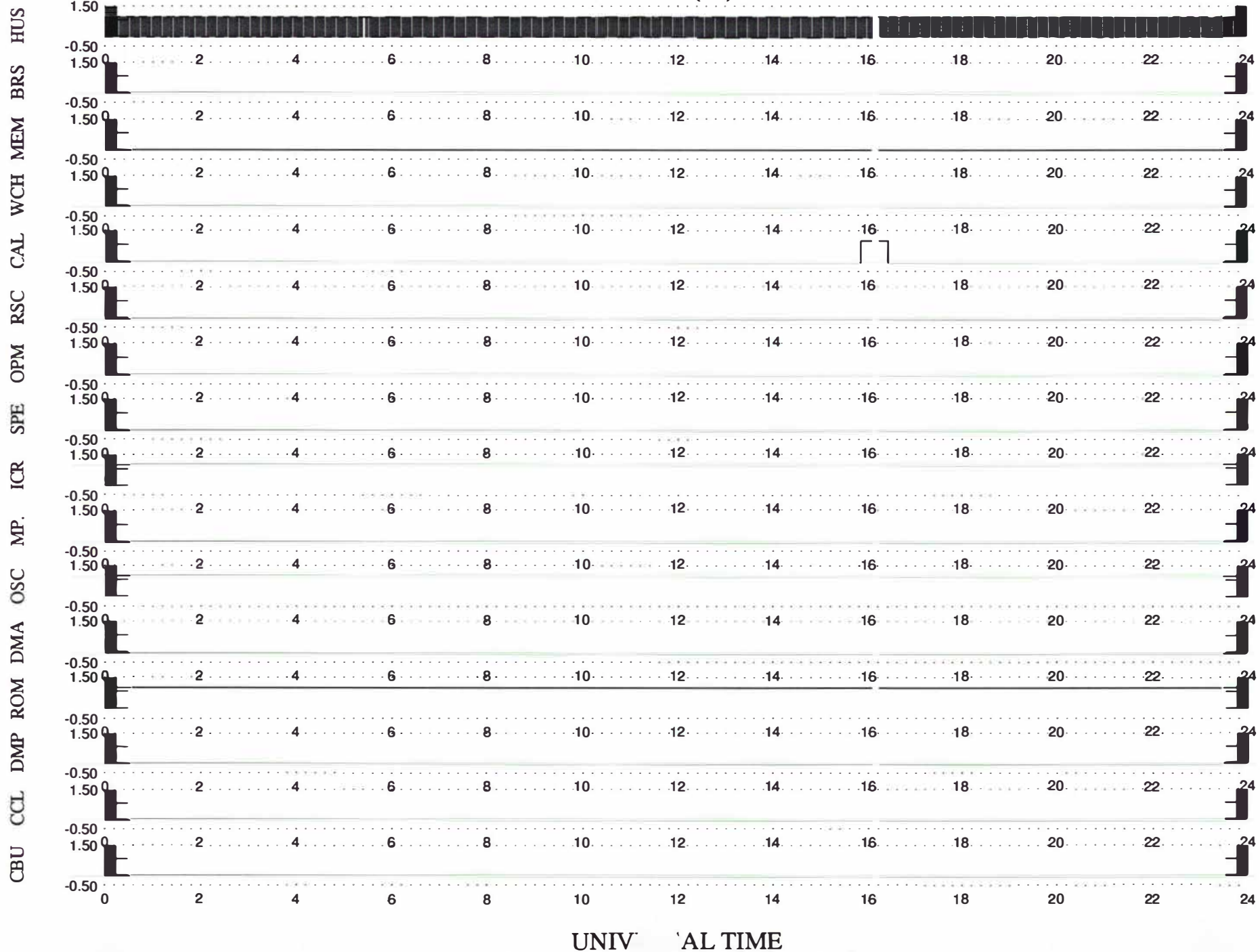
Current Time: 95/09/11, 1816 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

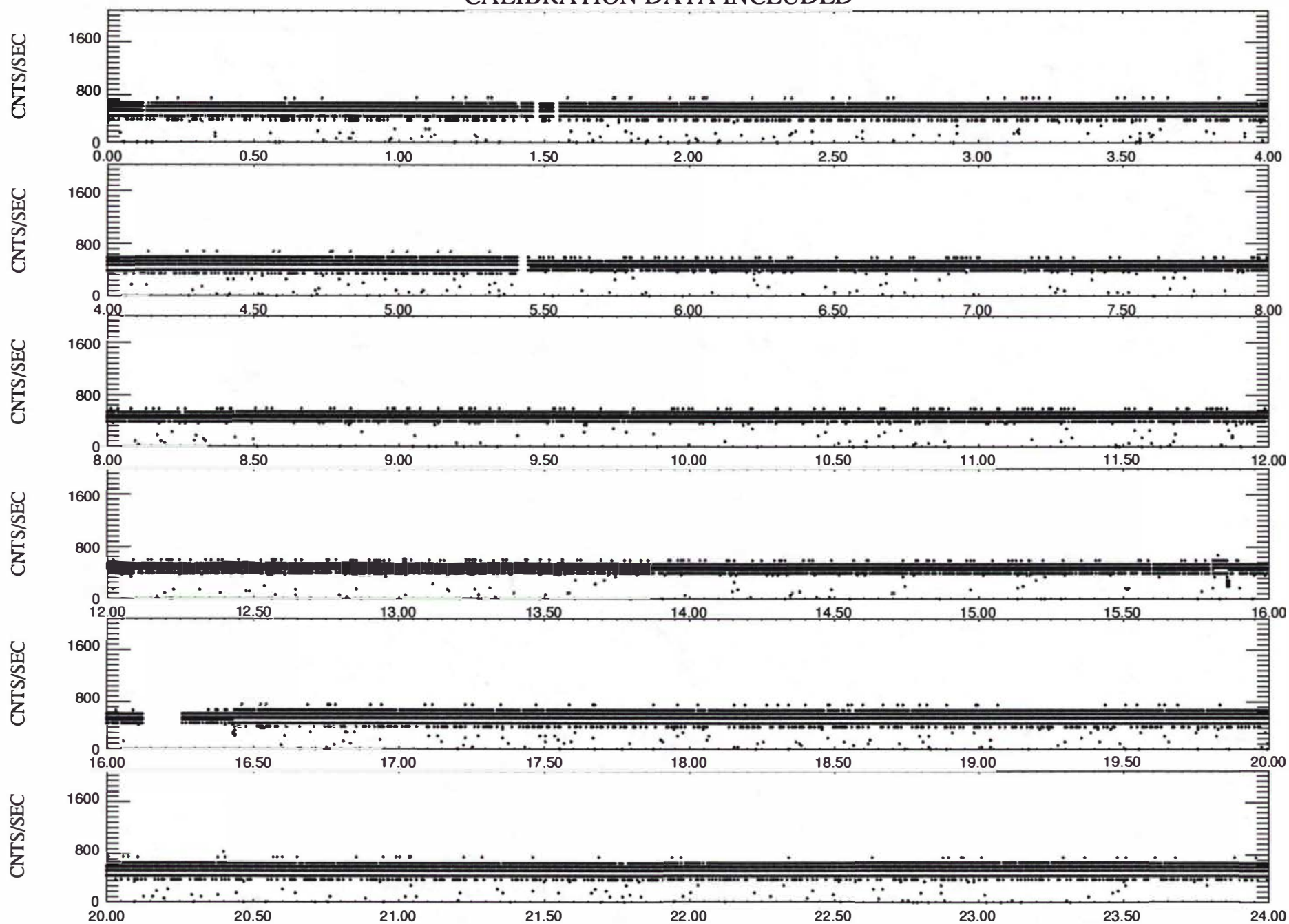
HUS MODES EDR day 249, year 1995 to day 249, year 1995
NO BURST (14)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 249, year 1995 to day 249, year 1995
CALIBRATION DATA INCLUDED

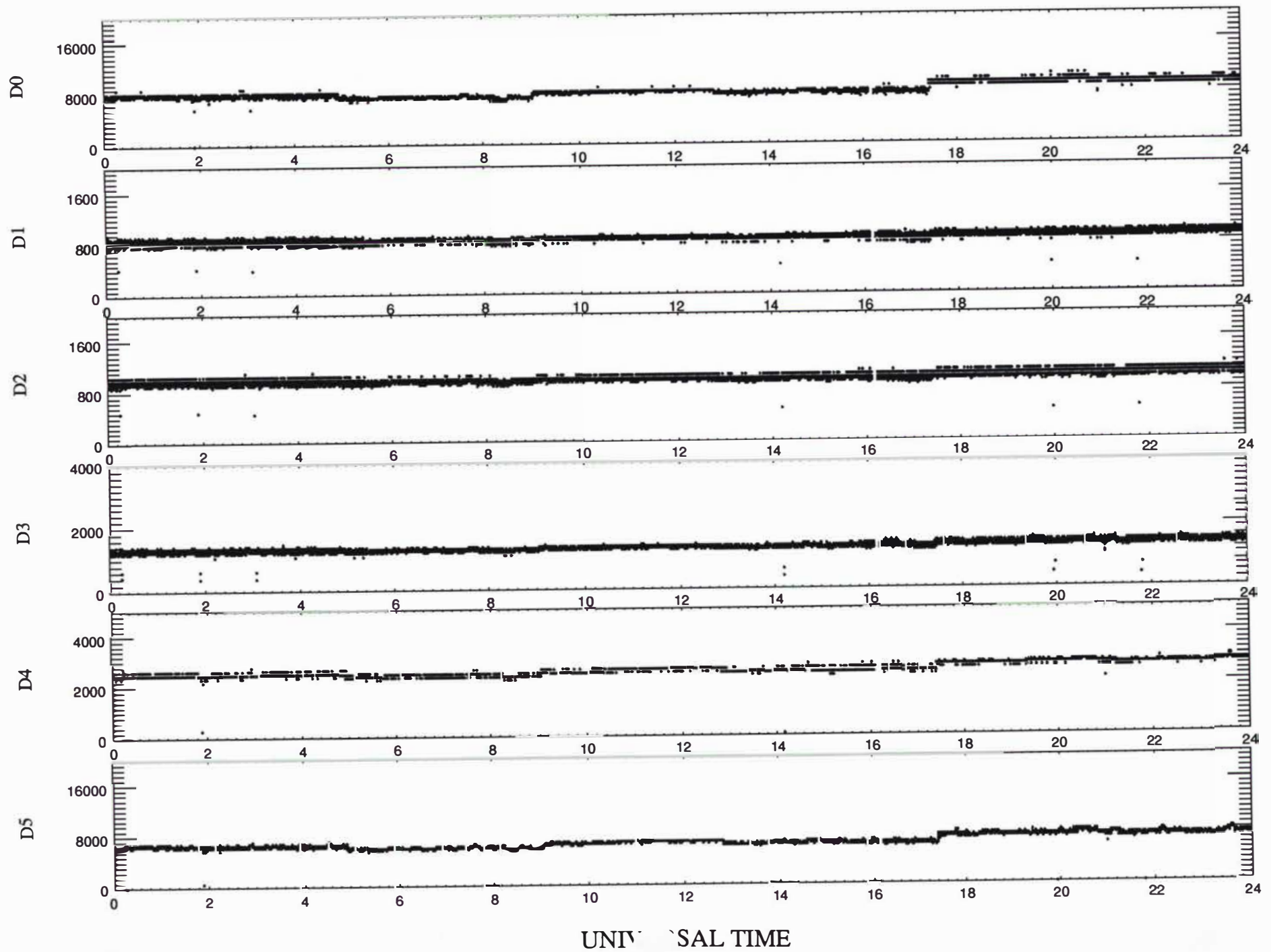
1/25/96



UNIV. TIME

HUS 2B COUNTS / SEC QEDR day 249, year 1995 to day 249, year 1995

9/11/95



Sep 13 11:19

3779

1

From HENZE@ssl.msfc.nasa.gov Wed Sep 13 10:03 PDT 1995
Return-Path: <HENZE@ssl.msfc.nasa.gov>
Received: from SSLMOR.MSFC.NASA.GOV by sunspot.ssl.berkeley.edu (SMI-8.6/SMI-SVR4)
id KAA14172; Wed, 13 Sep 1995 10:03:30 -0700
From: HENZE@ssl.msfc.nasa.gov
Date: Wed, 13 Sep 1995 12:03:22 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Message-Id: <950913120322.2101309a@ssl.msfc.nasa.gov>
Subject: Crossing Windows for BATSE Burst 3779
Content-Type: text
Content-Length: 1135
X-Lines: 26
Status: O

NO

BATSEARCH PROGRAM

BATSE BURST # 3779
EVENT OF 1995 SEP 7 DAY OF YEAR=250
EVENT CROSSING TIME AT BATSE : 16446. S. OR 04:34:06.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 302.000 50.000
BATSE PEAK COUNTING RATE: 2250 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 7/ 9/ 95 IS:
RA= 191.525 DEC= 67.143 DIST= 2.551 AU
BATSE-ULYSSES DISTANCE = 381582715. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=128.21 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -787.31 SECS.
CROSSING TIME AT ULYSSES IS 15659. S. OR 04:20:58 +/- 211.68 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 7/ 9/ 95 IS:
RA= 207.654 DEC= -11.596 DIST= 2.050 AU
MARS-BATSE DISTANCE = 306625888. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 78.36 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 206.30 SECS.
CROSSING TIME AT MARS IS 16652. S. OR 04:37:32 +/- 177.06 SECONDS

BATSE BURST TRIGGER

NO.: 03779

TIME: TJD=9967 SECONDS=16446

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=071.5 AZIMUTH=107.6 ERROR=005.9 DEGREES

COMMENTS:

DUR. ~7 S. SINGLE PULSE. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3779	950907	9967	16446	2250	302	+50	7

14 / 9 / 95

ULYSSES RT

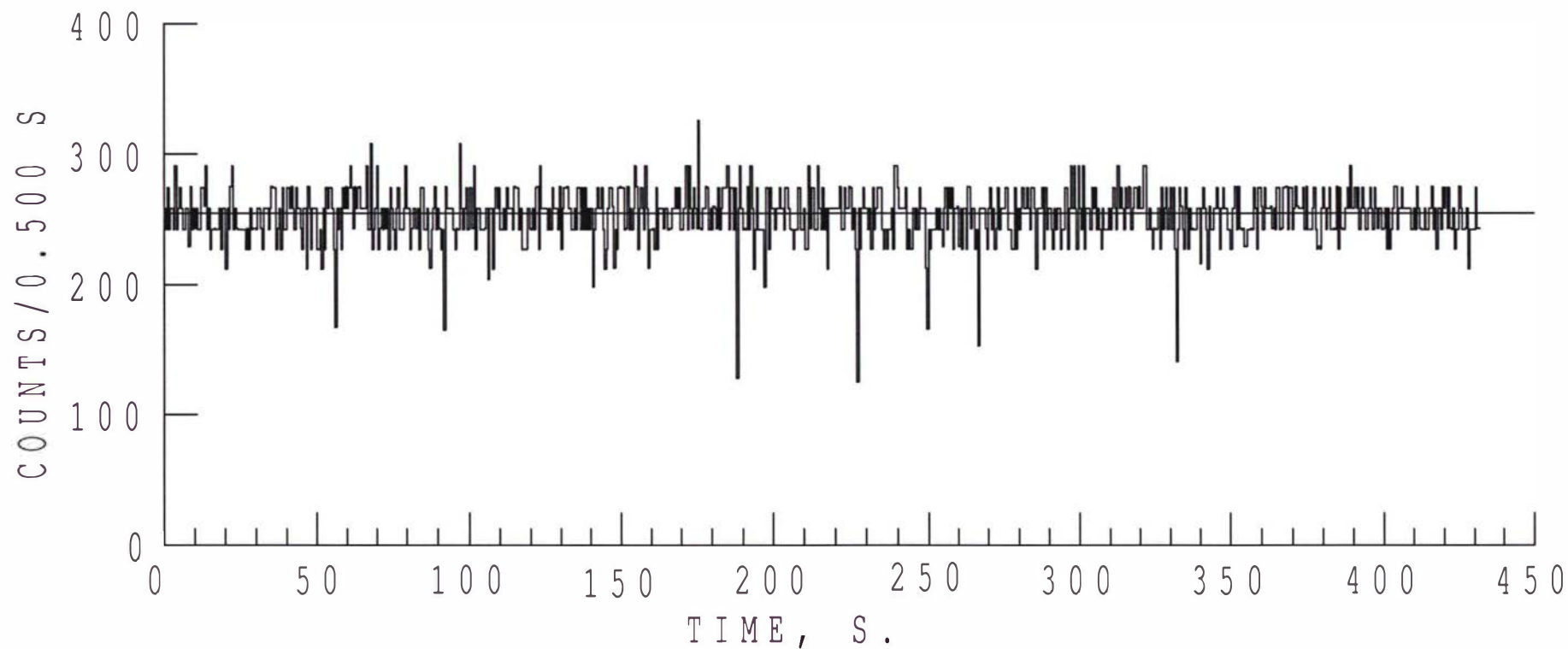
7 / 9 / 95 15444.124 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

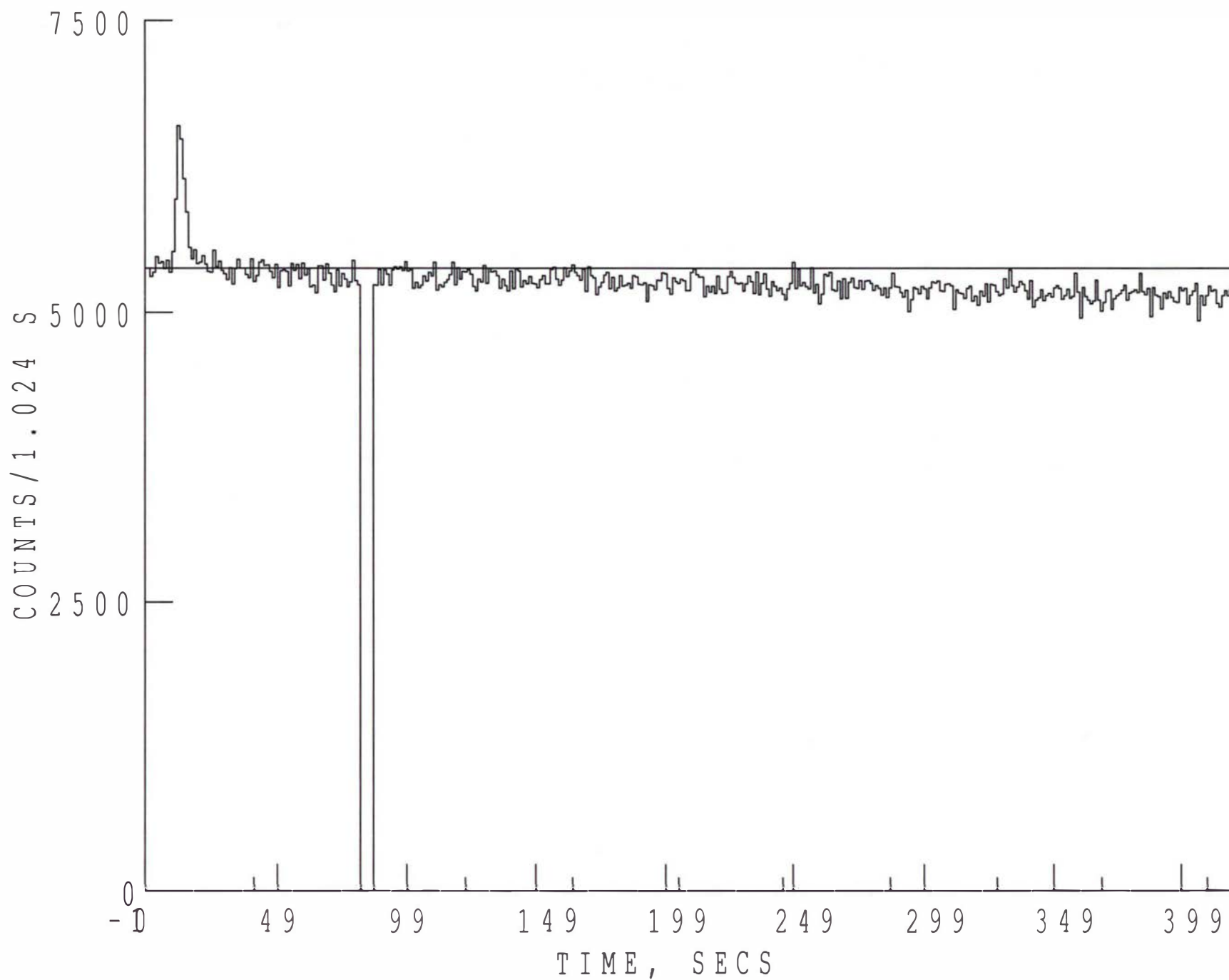
>4.0 SIGMA FLUCTUATIONS



BACODINE 07/09/95 16434.865

25- 100 keV

25 / 9 / 95



From DEAL@SSLLES.MSFC.NASA.GOV Fri Sep 8 13:30 PDT 1995
From: DEAL@SSLLES.MSFC.NASA.GOV
Date: Fri, 8 Sep 1995 15:30:29 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3780

TIME: TJD=9967 SECONDS=48981

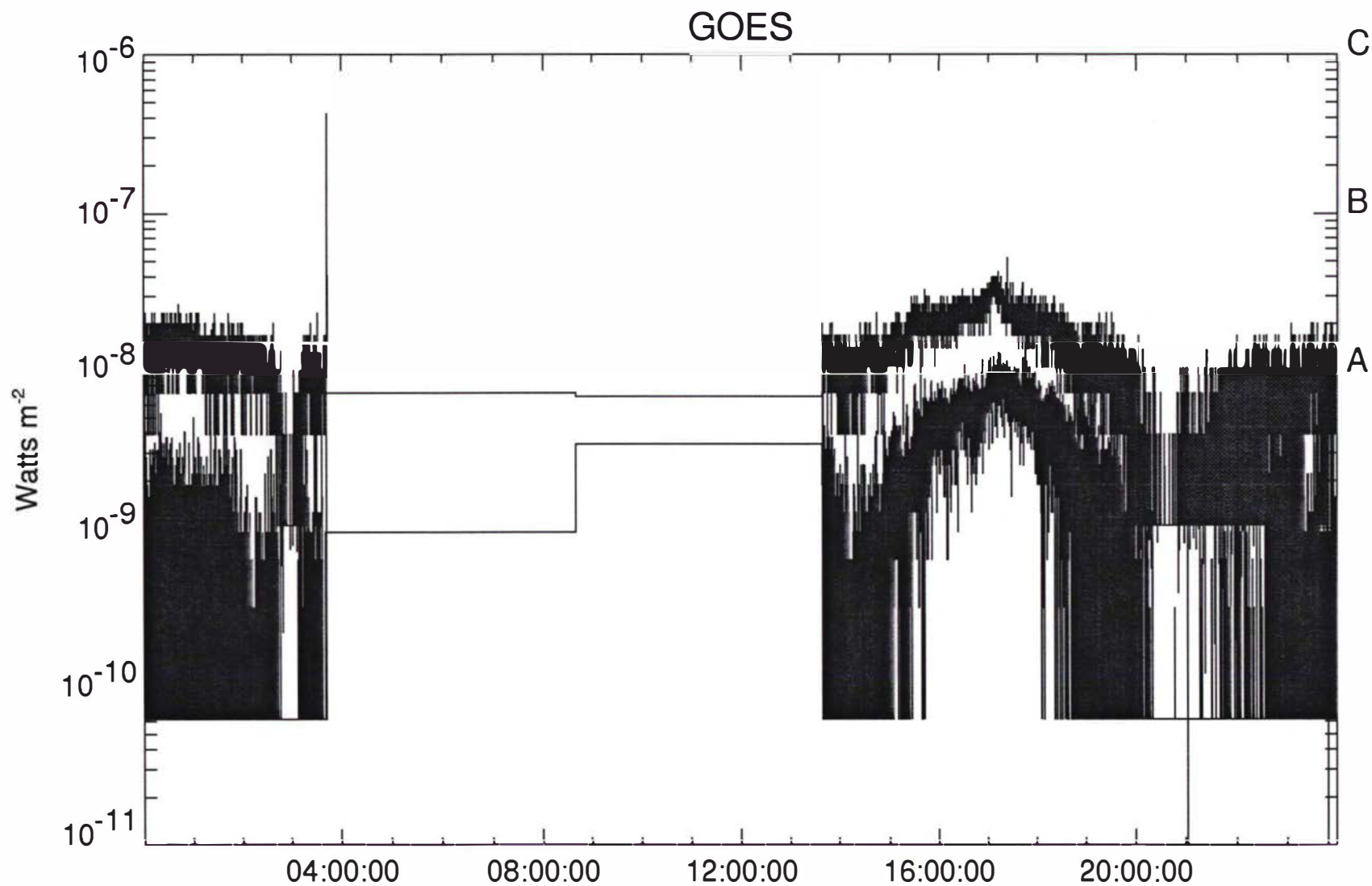
TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT



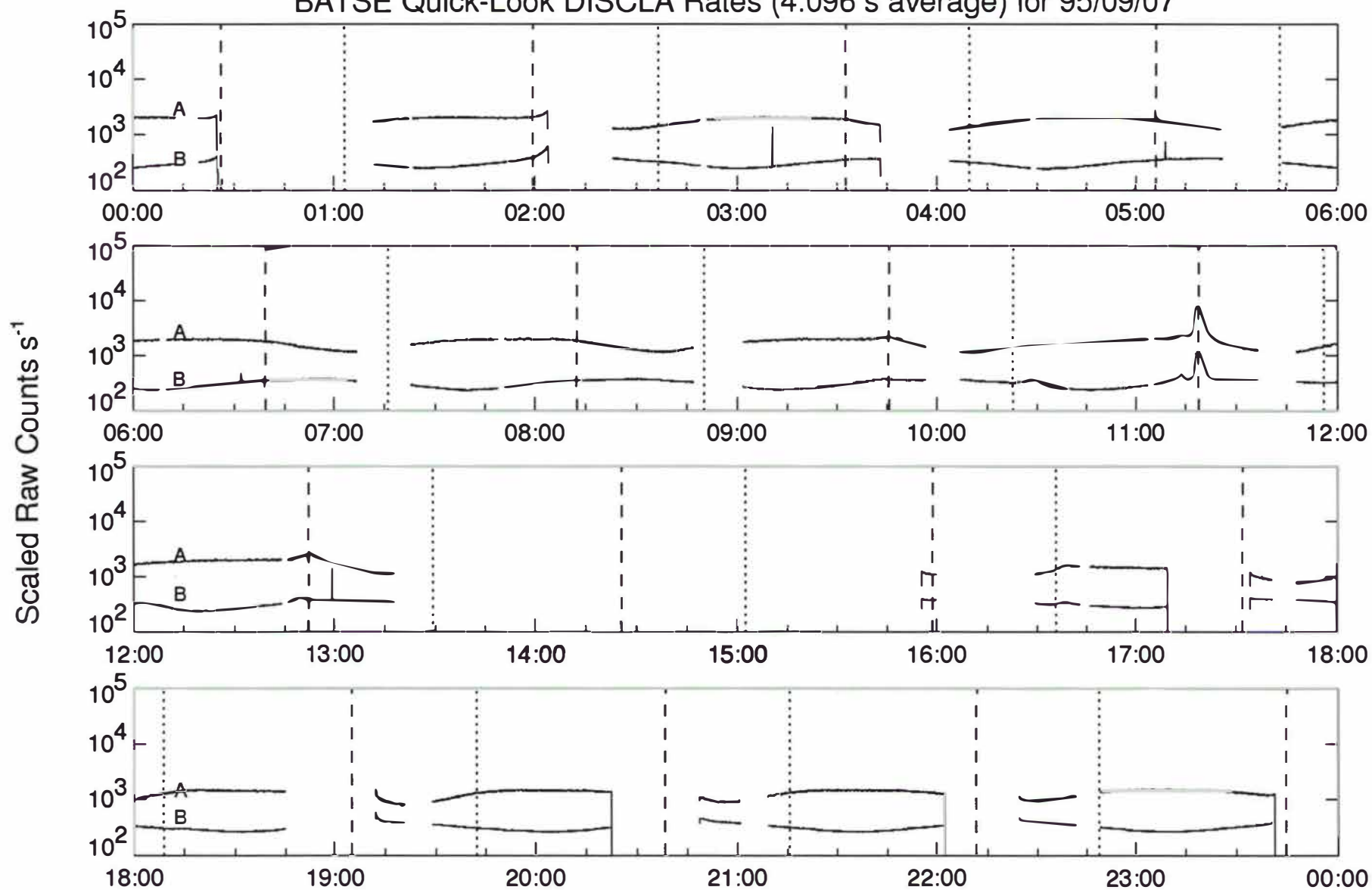
Data Start: 95/09/07, 0000:00

Plot created: 95/09/25, 1331

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/07



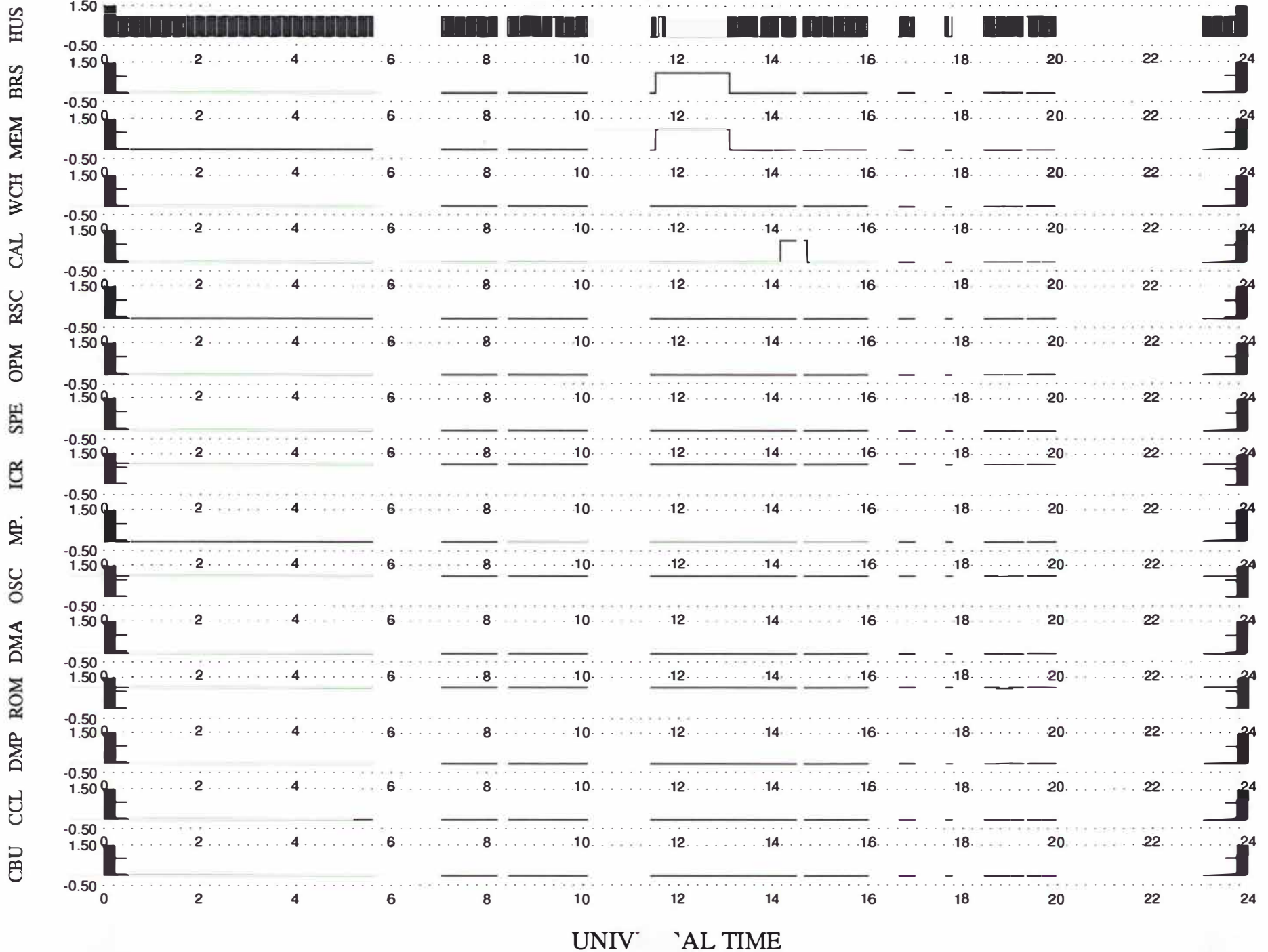
Current Time: 95/09/09, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

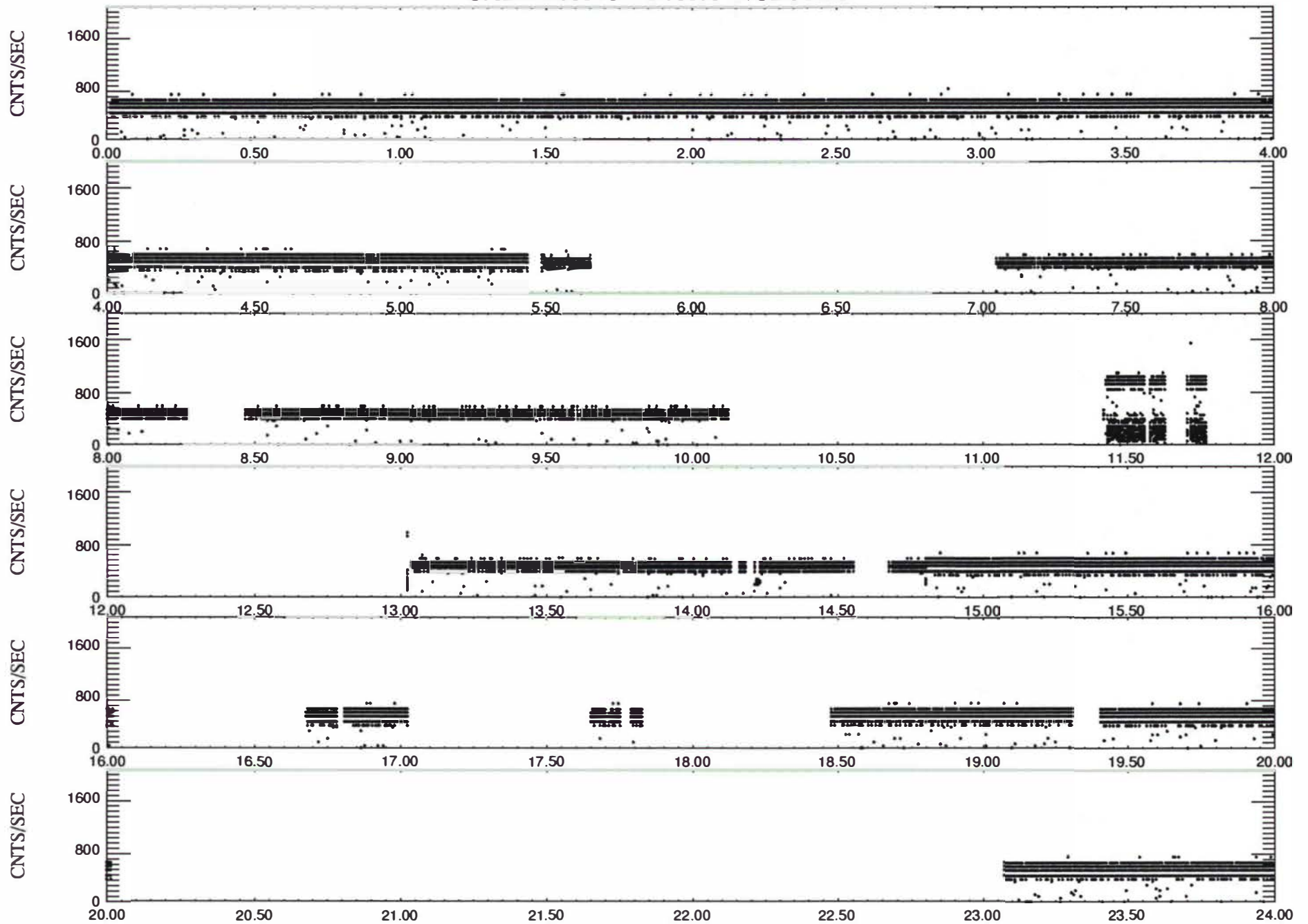
HUS MODES EDR day 250, year 1995 to day 250, year 1995
BURST NUMBER 15

1/25/96

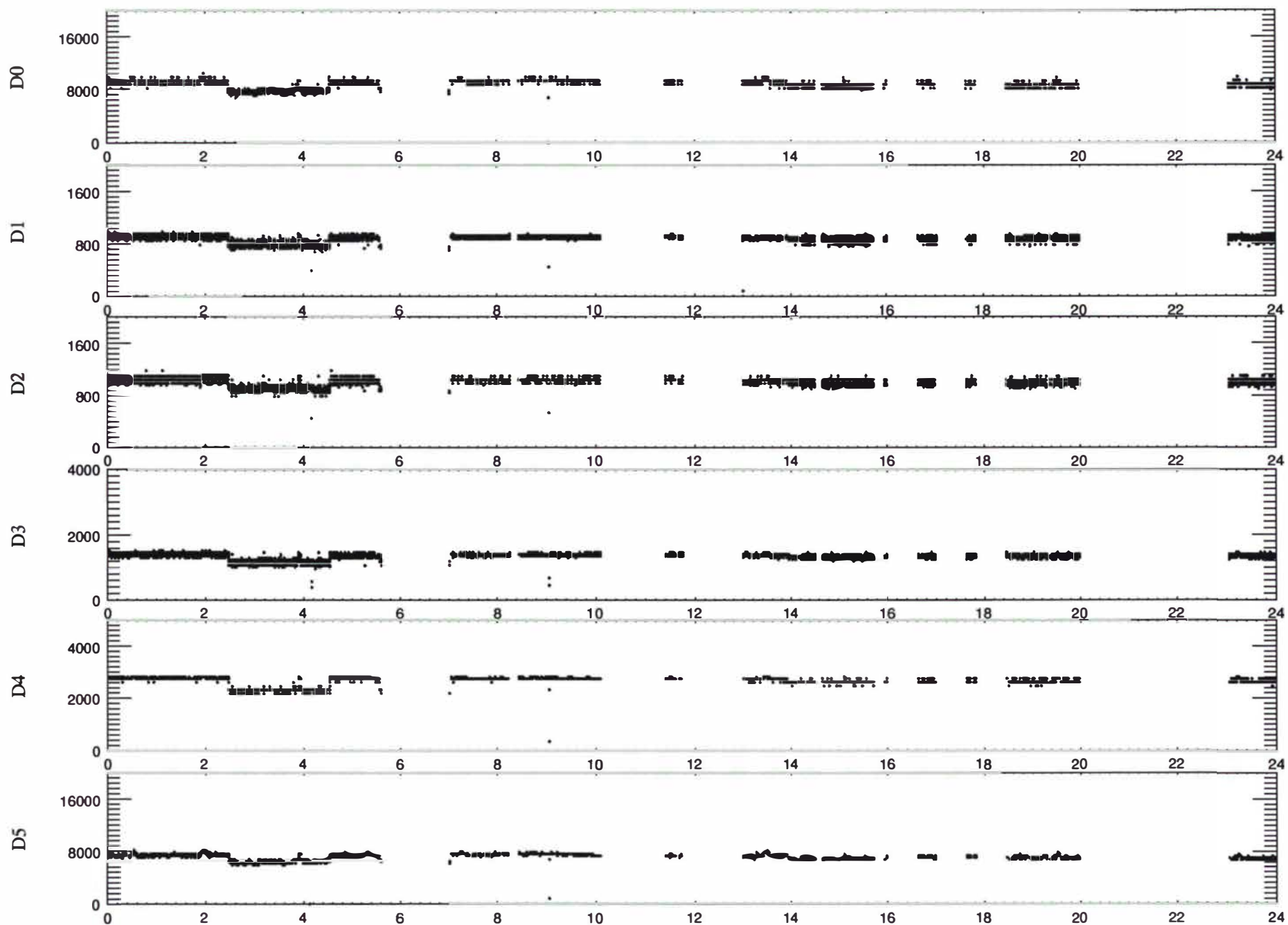


HUS 2A, MODE 1, NOT AVERAGED EDR day 250, year 1995 to day 250, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV AL TIME



UNIVERSAL TIME

From HAGEDON@fender.msfc.nasa.gov Mon Sep 11 10:30 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 11 Sep 1995 12:29:48 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3781

BATSEARCH PROGRAM

BATSE BURST # 3781
EVENT OF 1995 SEP 8 DAY OF YEAR=251
EVENT CROSSING TIME AT BATSE : 7487. S. OR 02:04:47.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 86.000 4.000
BATSE PEAK COUNTING RATE: 4000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 8/ 9/ 95 IS:
RA= 191.998 DEC= 66.838 DIST= 2.558 AU
BATSE-ULYSSES DISTANCE = 382613789. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 87.48 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 56.16 SECS.
CROSSING TIME AT ULYSSES IS 7543. S. OR 02:05:43 +/- 272.22 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 8/ 9/ 95 IS:
RA= 208.281 DEC= -11.839 DIST= 2.054 AU
MARS-BATSE DISTANCE = 307280800. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 57.61 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 549.13 SECS.
CROSSING TIME AT MARS IS 8036. S. OR 02:13:56 +/- 158.60 SECONDS

BATSE BURST TRIGGER

NO.: 3781

TIME: TJD=9968 SECONDS=07487

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=74.1 AZIMUTH=73.0 ERROR=2.1 DEGREES

COMMENTS:

BURST. COMPLEX EVENT. DUR. GREATER THAN 50 SEC., LESS THAN 130 SEC.
(DATA GAP FROM T+50 TO T+130 SEC.) VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3781	950908	9968	07487	4000	086	+04	50

14 / 9 / 95

ULYSSES RT

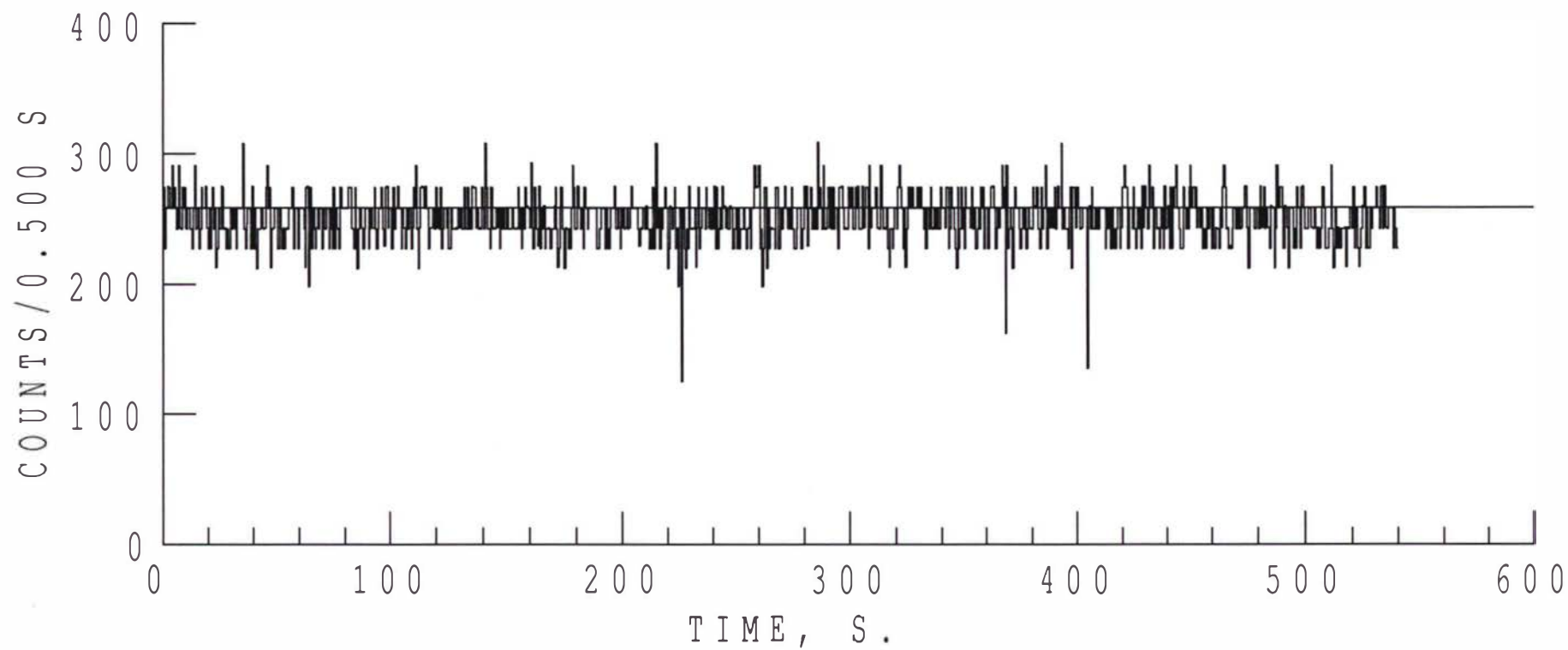
8 / 9 / 95 7272.002 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From HAGEDON@fender.msfc.nasa.gov Mon Sep 11 10:32 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 11 Sep 1995 12:32:43 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3782

BATSEARCH PROGRAM

BATSE BURST # 3782
EVENT OF 1995 SEP 8 DAY OF YEAR=251
EVENT CROSSING TIME AT BATSE : 30382. S. OR 08:26:22.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 179.000 7.000
BATSE PEAK COUNTING RATE: 4500 C/S

RF
NO - too weak

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 8/ 9/ 95 IS:
RA= 192.135 DEC= 66.749 DIST= 2.560 AU
BATSE-ULYSSES DISTANCE = 382915856. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=119.57 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -630.38 SECS.
CROSSING TIME AT ULYSSES IS 29752. S. OR 08:15:51 +/- 233.29 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 8/ 9/ 95 IS:
RA= 208.281 DEC= -11.839 DIST= 2.054 AU
MARS-BATSE DISTANCE = 307280800. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=145.32 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -842.85 SECS.
CROSSING TIME AT MARS IS 29539. S. OR 08:12:19 +/- 88.46 SECONDS

BATSE BURST TRIGGER

NO.: 3782

TIME: TJD=9968 SECONDS=30382

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=148.3 AZIMUTH=4.2 ERROR=9.95 DEGREES

COMMENTS:

BURST. SINGLE SPIKE. DUR.~0.2 SEC. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3782	950908	9968	30382	4500	179	+07	.2

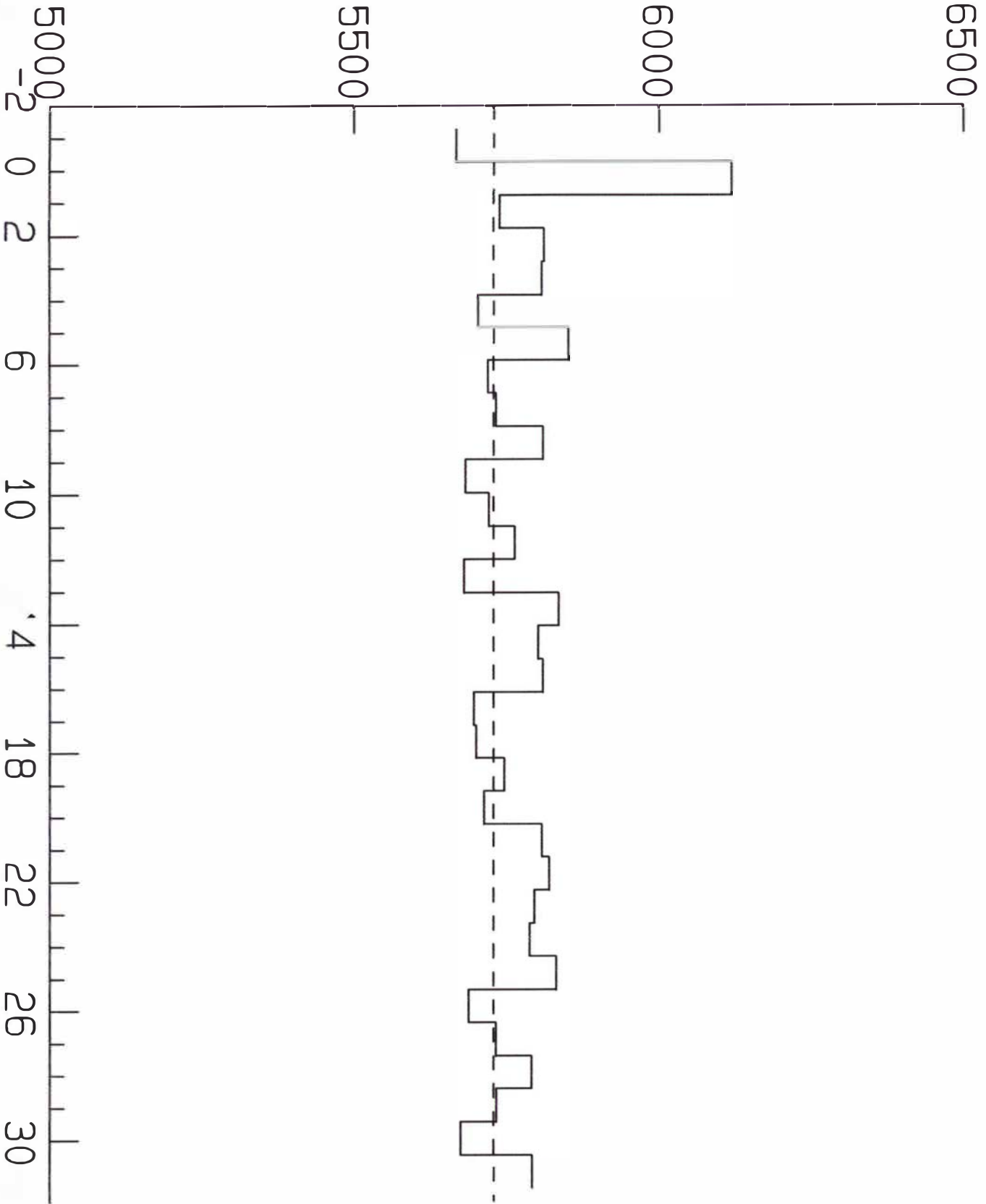
BATSE

08/09/95

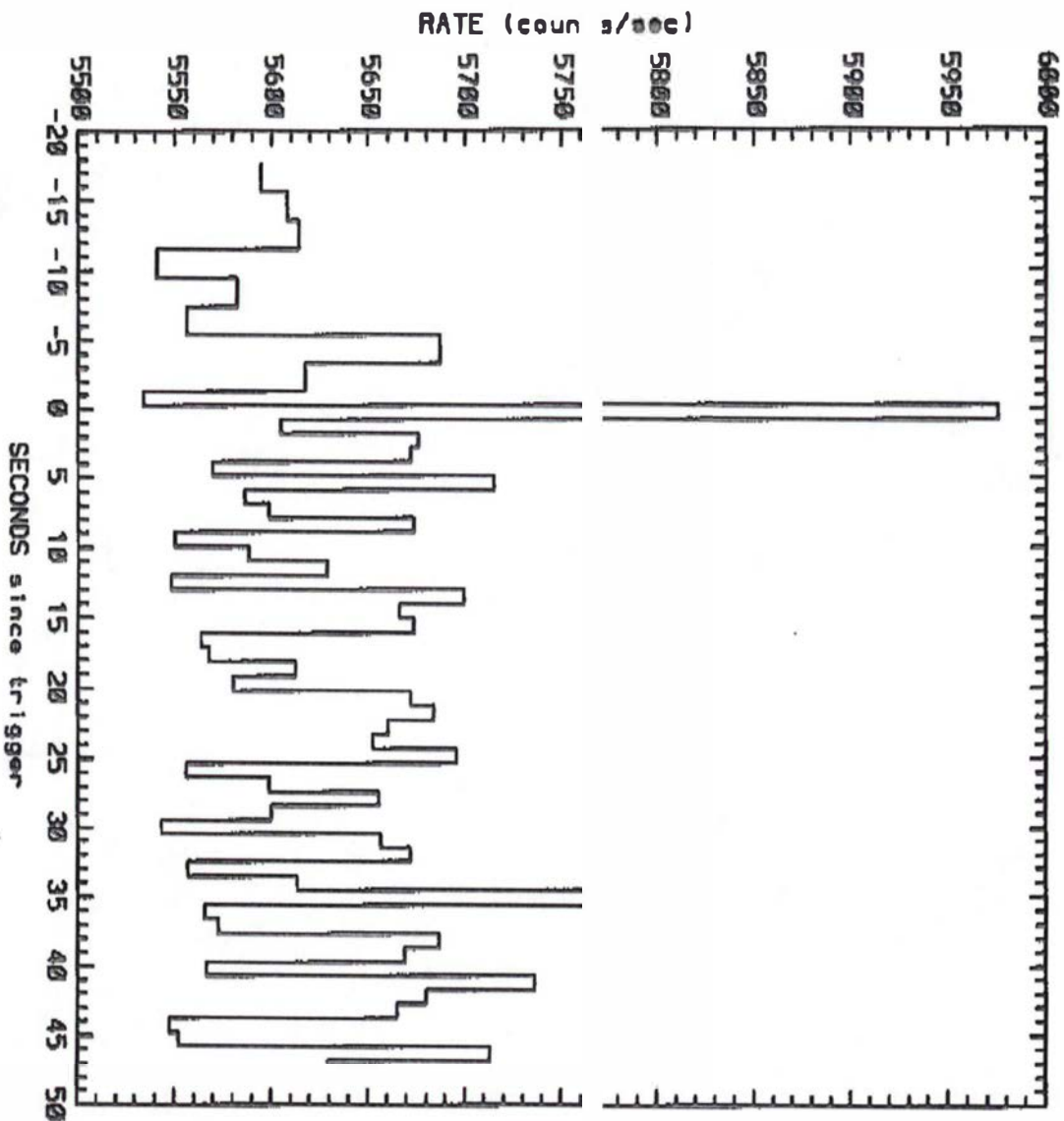
30382.002

25- 100 keV

COUNTS/1.024 S



DISCLB Data for K. Hurley, No. 3782



11-MAR-1996 11:04:53

Created by NOPS 80
(Burst Display)
Version 12.25Trigger # : 3782
Trigger Time:
9960 / 36382.002
Burst Data Type:
DISCLBDeadtime
Corrected: N
Background Data
Type: None
Minimum Logic Time:
1.024 seconds
Detectors [7.0]:
----3-1-
Discriminators:
(1.2)
Quality Mask:
801501

BATSE BURST# 3782

12 / 2 / 96

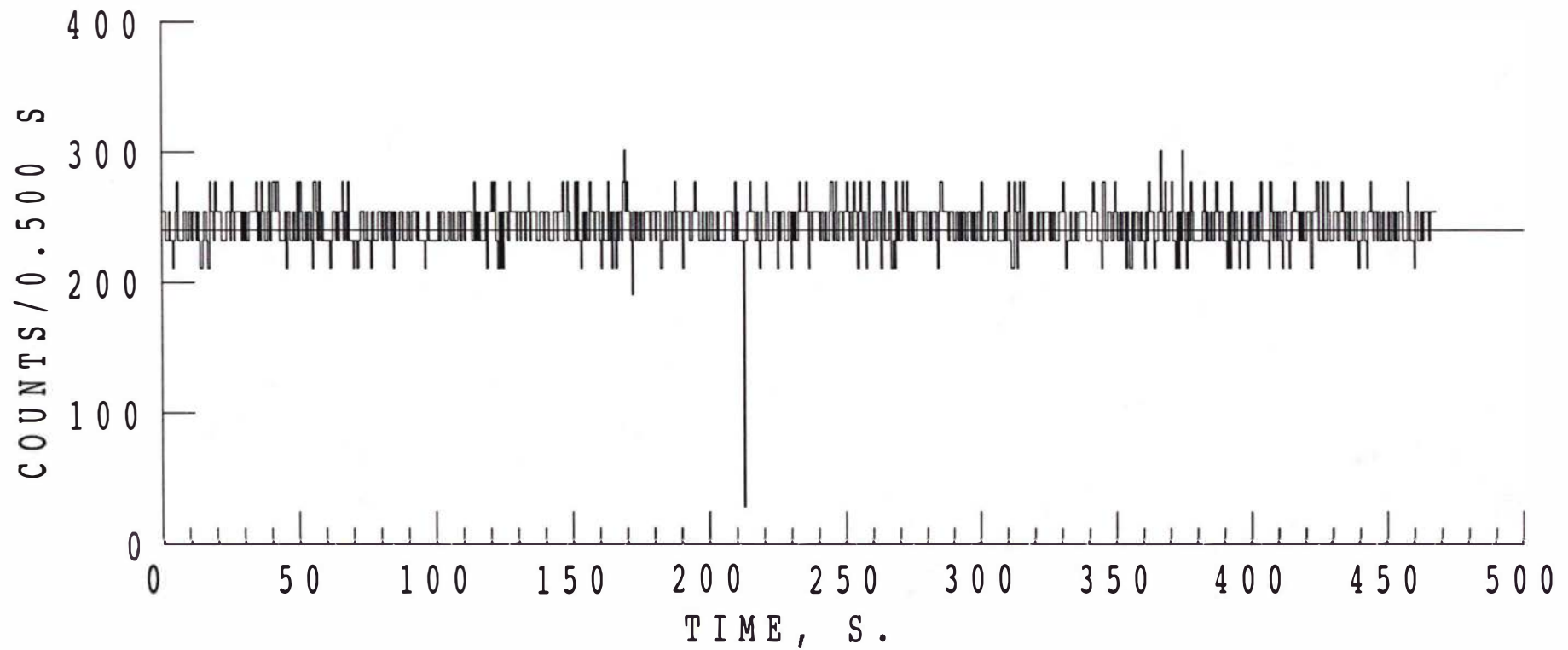
ULYSSES RT

8 / 9 / 95 29520.143 s

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From HAGEDON@fender.msfc.nasa.gov Sat Sep 9 11:27 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Sat, 9 Sep 1995 13:27:06 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3783

TIME: TJD=9968 SECONDS=38458

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@fender.msfc.nasa.gov Sat Sep 9 11:30 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Sat, 9 Sep 1995 13:29:43 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3784

TIME: TJD=9968 SECONDS=46259

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@fender.msfc.nasa.gov Sat Sep 9 11:33 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Sat, 9 Sep 1995 13:33:32 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3785

TIME: TJD=9968 SECONDS=52051

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@fender.msfc.nasa.gov Sat Sep 9 11:39 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Sat, 9 Sep 1995 13:39:42 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3786

TIME: TJD=9968 SECONDS=60753

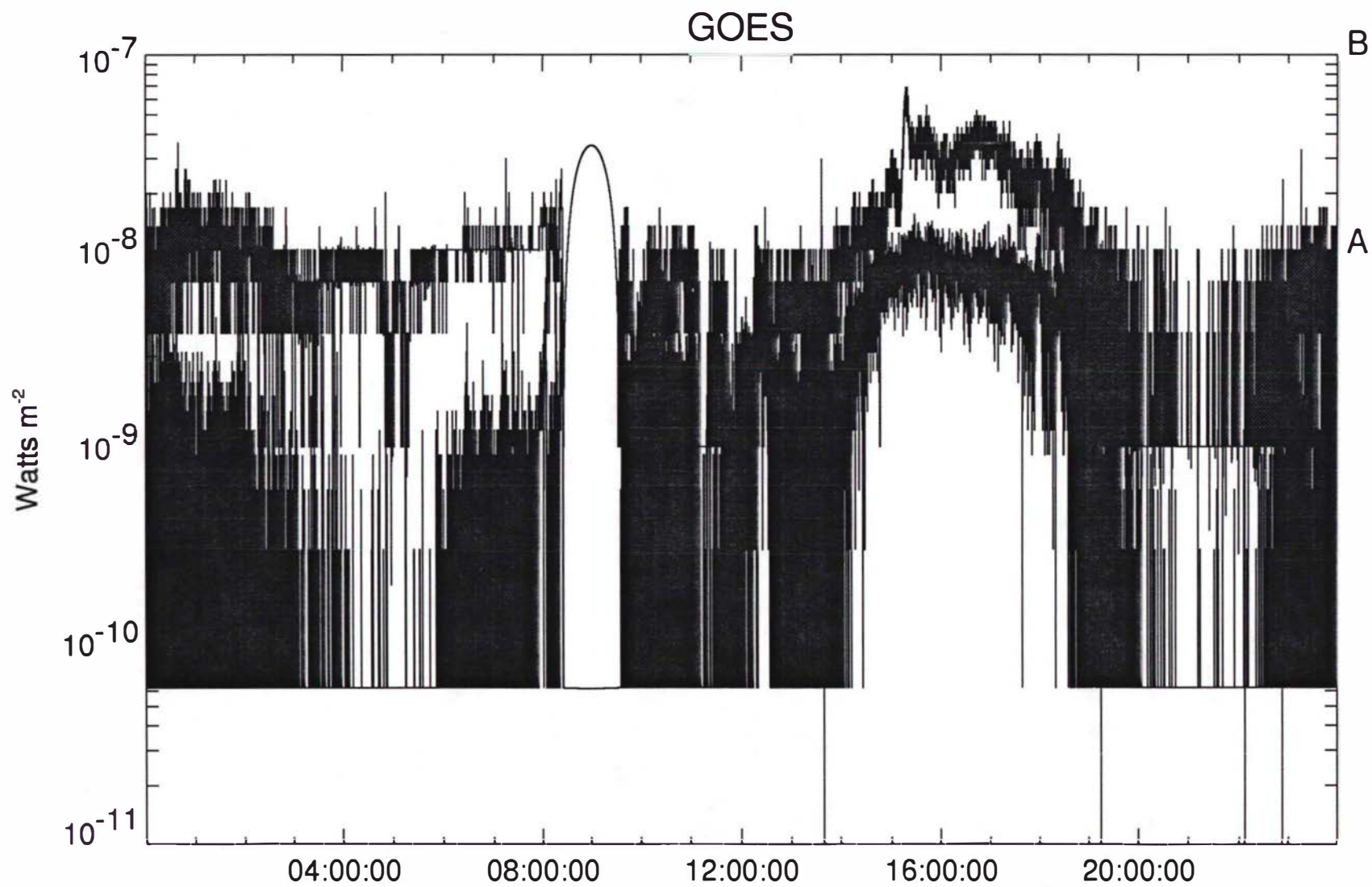
TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.



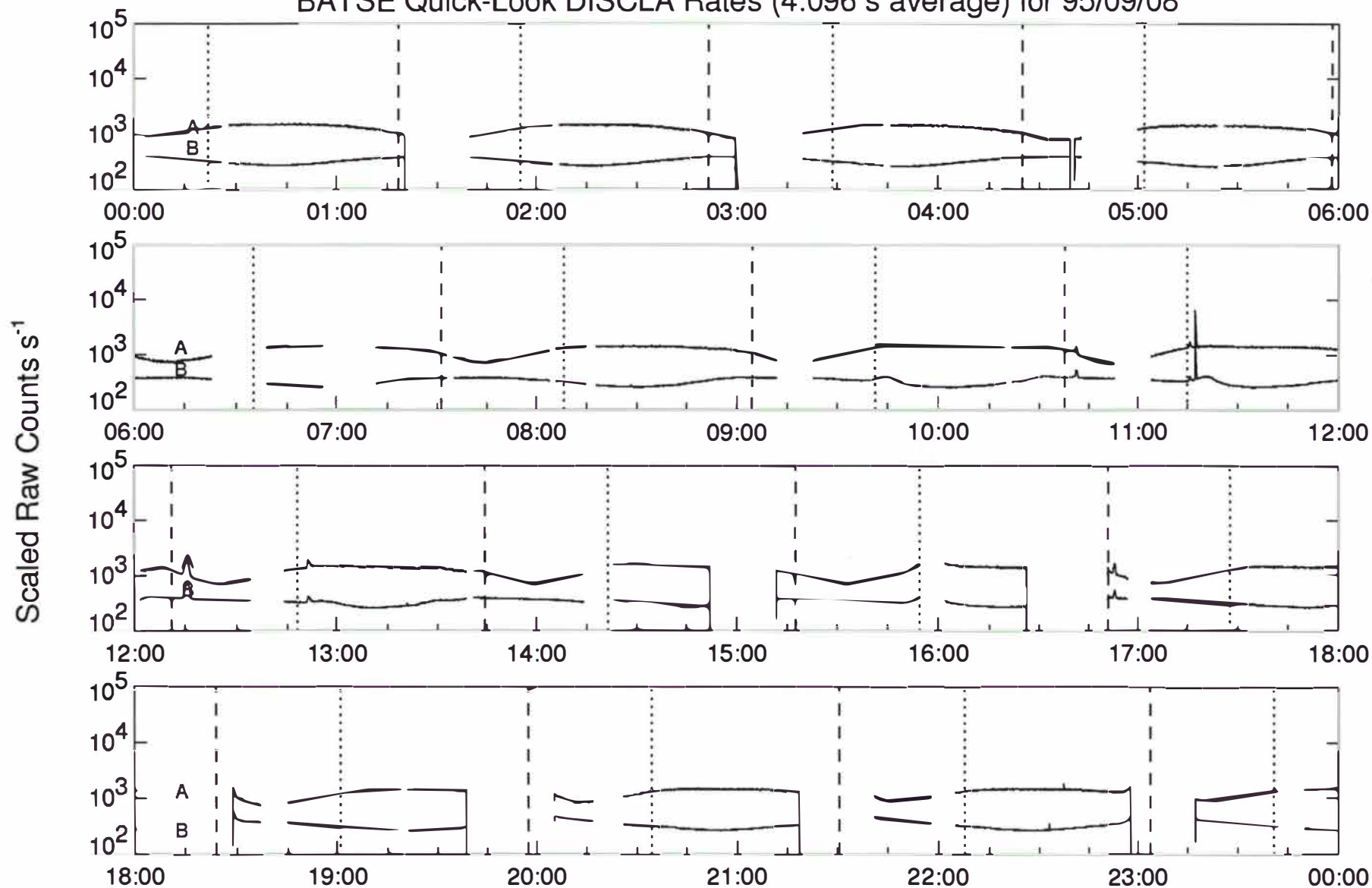
Data Start: 95/09/08, 0000:01

Plot created: 95/09/25, 1335

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/08



Current Time: 95/09/10, 0529 EDT

A: Channel 0 Most Sunward LAD

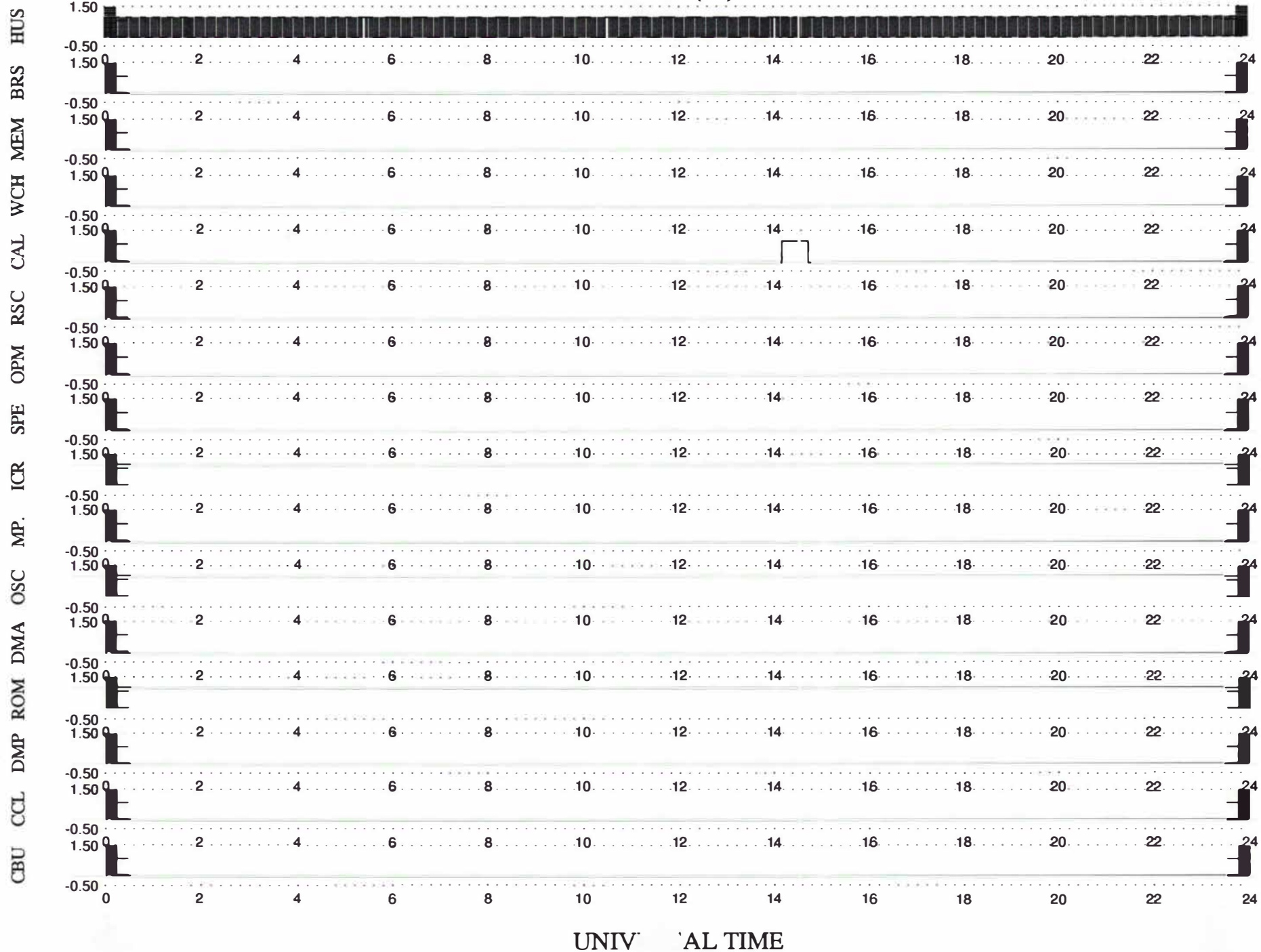
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

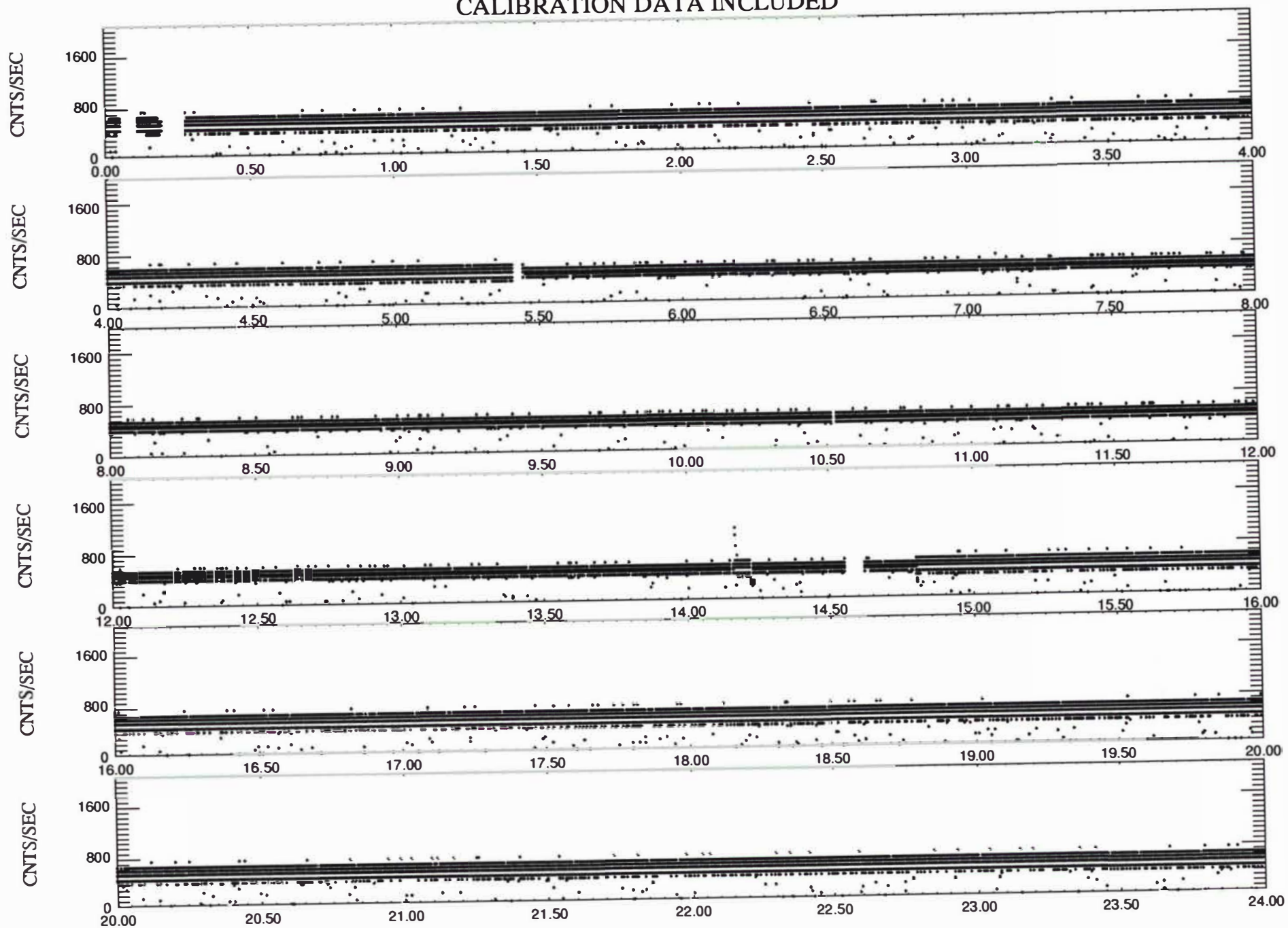
HUS MODES EDR day 251, year 1995 to day 251, year 1995
NO BURST (15)

1/25/96

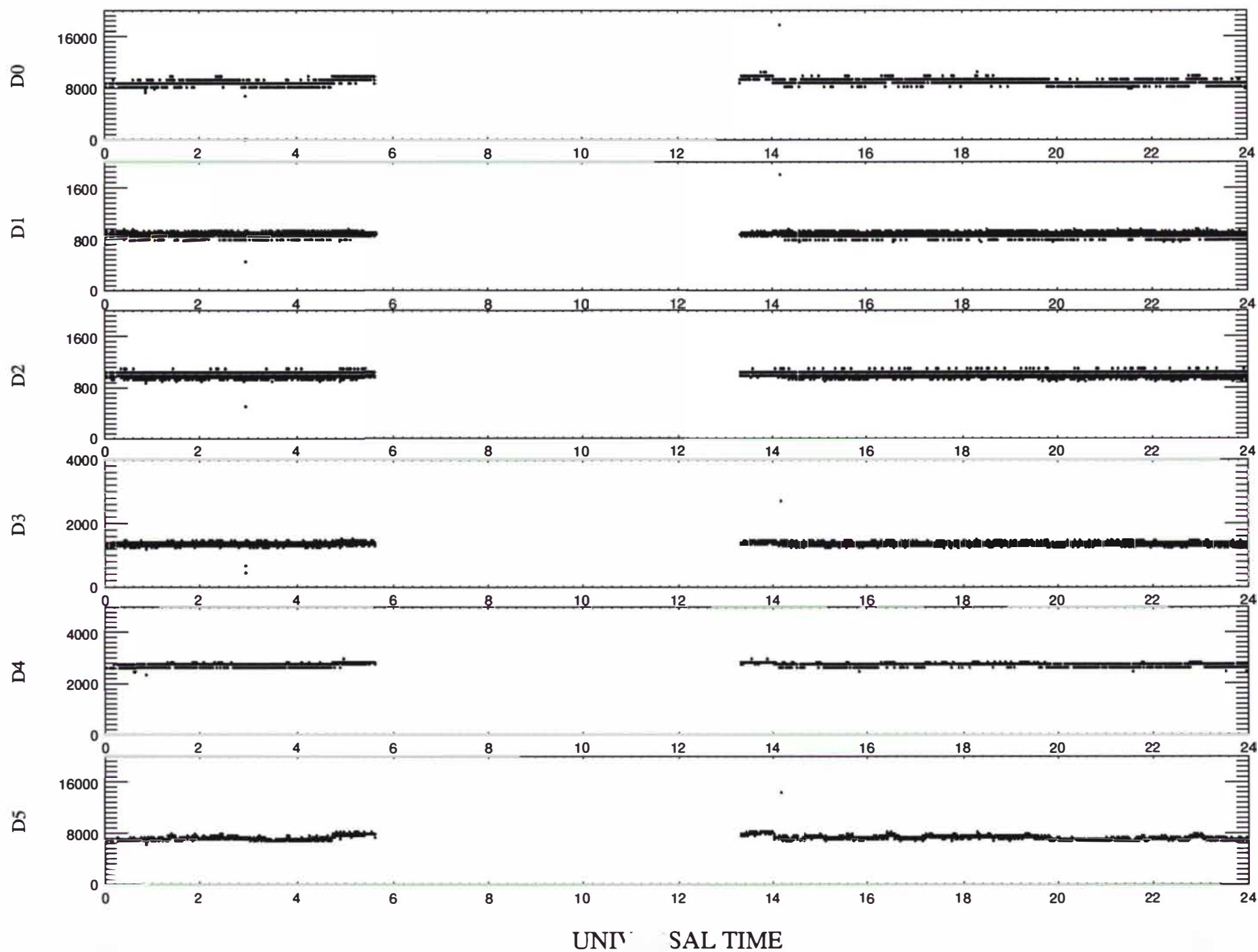


HUS 2A, MODE 1, NOT AVERAGED EDR day 251, year 1995 to day 251, year 1995
 CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



From RICHARDSON@ssl.msfc.nasa.gov Wed Sep 13 06:59 PDT 1995
Date: Wed, 13 Sep 1995 8:59:26 -0500 (CDT)
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3787

TIME: TJD=9969 SECONDS=43585

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

Sep 13 08:26

3788

1

From RICHARDSON@ssl.msfc.nasa.gov Wed Sep 13 07:06 PDT 1995
Return-Path: <RICHARDSON@ssl.msfc.nasa.gov>
Received: from SSLMOR.MSFC.NASA.GOV by sunspot.ssl.berkeley.edu (SMI-8.6/SMI-SVR4)
id HAA12297; Wed, 13 Sep 1995 07:06:39 -0700
Date: Wed, 13 Sep 1995 9:06:31 -0500 (CDT)
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Message-Id: <950913090631.23e00c47@SSLLES.MSFC.NASA.GOV>
Subject: Crossing Windows for BATSE Burst 3788
Content-Type: text
Content-Length: 1135
X-Lines: 26
Status: RO

BATSEARCH PROGRAM

BATSE BURST # 3788
EVENT OF 1995 SEP 9 DAY OF YEAR=252
EVENT CROSSING TIME AT BATSE : 85452. S. OR 23:44:12.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 216.000 0.000
BATSE PEAK COUNTING RATE: 17500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 9/ 9/ 95 IS:
RA= 192.973 DEC= 66.204 DIST= 2.572 AU
BATSE-ULYSSES DISTANCE = 384776518. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=111.80 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -476.60 SECS.
CROSSING TIME AT ULYSSES IS 84975. S. OR 23:36:15 +/- 249.66 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 9/ 9/ 95 IS:
RA= 208.911 DEC= -12.081 DIST= 2.058 AU
MARS-BATSE DISTANCE = 307929536. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=166.02 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -996.72 SECS.
CROSSING TIME AT MARS IS 84455. S. OR 23:27:35 +/- 27.95 SECONDS

BATSE BURST TRIGGER

NO.: 3788

TIME: TJD=9969 SECONDS=85452

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=142.2 AZIMUTH=295.1 ERROR=0.4 DEGREES

COMMENTS:

GRB. LONG EVENT WITH STRUCTURE. DUR.~140 SEC. VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3788	950909	9969	85452	17500	216	0	140

95	7	1	117	23737	23737	3658
95	7	6	121	42735	42735	3662
95	7	11	123	13789	13789	3663
95	7	13	BGR	32133	32176	3664
95	7	30	128	76149	76124	3720
95	8	4	131	7135	07134	3734
95	8	4	133	45377	45376	3735
95	8	8	BGR	13023	12974	3745
95	8	9	136	85945	85945	3750
95	8	18	137	5065	05002	3765
95	8	22	140	13751	13749	3767
95	9	4	142	52692	52688	3776
95	9	9	145	85473	85452	3788
95	9	19	151	51465	51447	3806
95	9	21	152	20947	20947	3811
95	9	22	BGR	15495		
95	9	22	BGR	25929		
95	9	26	BGR	63919		
95	10	1	153	41907		
95	10	2	BGR	77583		3843
95	10	4	BGR	83974		
95	10	5	154	14842.112		
95	10	8	156	46287.863		
95	10	10	BGR	11774		
95	10	11	157	77693.094		3860
95	10	13	159	57097.299		
95	10	14	160	13108.167		
95	10	14	161	43561.3		
95	10	16	162	02484.285		3870
95	10	16	BGR	71607		3871
95	10	18	163	19832.069		
95	10	19	64	11712.625		
95	10	19	165	48244.594		3875
95	10	25	167	85239.738		
95	11	2	168	07085.879		
95	11	2	69	21209.015		3891
95	11	2	BGR	28693		
95	11	5	BGR	01745		
95	11	5	170	05868.077		3893
95	11	5	171	46827.808		
95	11	7	BGR	27298		
95	11	11	BGR	34960		
95	11	12	172	66495.244		
95	11	13	173	84358.872		3906
95	11	15	BGR	38929		
95	11	17	175	10123.762		
95	11	18	BGR	82560		
95	11	19	176	29831.402		3912
95	11	19	177	46457.519		
95	11	19		59448		
95	11	21		22280		
95	11	22	179	09841.38		
95	11	22	180	17107.738		
95	11	23	BGR	65408		
95	11	24	BGR	21266		3918
95	11	24	BGR	25132		

-- T. L. Cline ----- LHEAVX::CLINE

From cline@lheavx.gsfc.nasa.gov Fri Jan 26 13:00 PST 1996

Date: Fri, 26 Jan 1996 13:00:45 -0800

Mime-Version: 1.0

To: KHURLEY@sunspot.ssl.berkeley.edu

From: cline@lheavx.gsfc.nasa.gov (T L Cline)

Subject: Improved list; same question.

Dear Kevin,

I'm making a little progress here, tracking down these events. This is a slightly improved list, with a few more BATSE triggers identified. - TLC

Yr	Mn	Dy	Konus#	Konus Tzero	BATSE Tz, #	Ulysses
94	11	14	BGR	07360	07358	3283 - NO
94	11	19	4	70269.175	70250	3287 R I
94	11	21	6	62700.945	62697	3290 trig.
94	11	25	7	79470.156	79470	3295 R I
94	11	26	BGR	01246	01245	3296
94	11	26	8	44557.952	44521	3298 trig.
94	11	26	BGR	60860	60861	3299
94	11	26	9	71809.732	71798	3301 R I
94	11	27	10	52225.68	52217	3303 R I
94	11	28	BGR	56220	56217	3305
94	12	28	28	27585.915	27581	3330 R I
94	12	29	29	82268.781	82258	3334 R I
95	1	4	31	26319.613	26319	3345 R I
95	1	11	33	17352.241	17263	3351 R I
95	1	11	34	44329	44310	3352
95	1	17	BGR	05760	05761	3360
95	1	18	BGR	44574	44589	3364
95	2	7	BGR	02774	02781	3406
95	2	8	45	07824	07824	3408
95	2	10	47	08424	08421	3410
95	2	11	48	08697	08697	3412 trig.
95	2	11	50	72469	72468	3415
95	2	21	BGR	74701	74705	3436
95	2	26	54	53351	53336	3442
95	3	1	BGR	75731	75761	3448
95	3	4	56	37661	37657	3453
95	3	5	58	54309	54304	3458
95	3	10	BGR	78388	78395	3464
95	3	25	63	25841	25844	3480
95	3	25	64	63392	63391	3481
95	3	27	BGR	26323	26347	3485
95	3	27	BGR	85672	85671	3486
95	4	1	69	42647	42642	3488
95	4	1	70	74635	74634	3489
95	4	3	71	47985	47987	3491
95	4	3	72	84828	84826	3492
95	4	16	BGR	48420	48419	3509
95	4	18	81	83793	83795	3512
95	4	25	86	00923	00919	3523
95	4	30	BGR	54224	54229	3527
95	5	3	88	66971	66970	3537
95	5	10	90	28083	28079	3569
95	5	13	93	81706	81703	3571
95	5	21	97	25161	25157	3588
95	5	22	98	23898	23896	3590
95	5	22	100	85280	85283	3593
95	5	24	102	14902	14899	3598
95	6	2	104	25592	25592	3618
95	6	10	107	6849	06849	3637
95	6	24	111	84124	84084	3648
95	6	25	113	14626	14601	3649
95	6	29	115	37033	37036	3654
95	7	1	116	12762	12758	3657

Helio corr removed

Date: Nov 5 '97

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is done on the data with the best time resolution?

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)? *N/A*
- ☒ BATSE ephemeris for T_0 ?
- ☒ Error circle position and radius from public catalog used?
- ☐ If MER data were used, is a 30 ms systematic error included? *N/A*

3. PVO Data

- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS database updated?

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

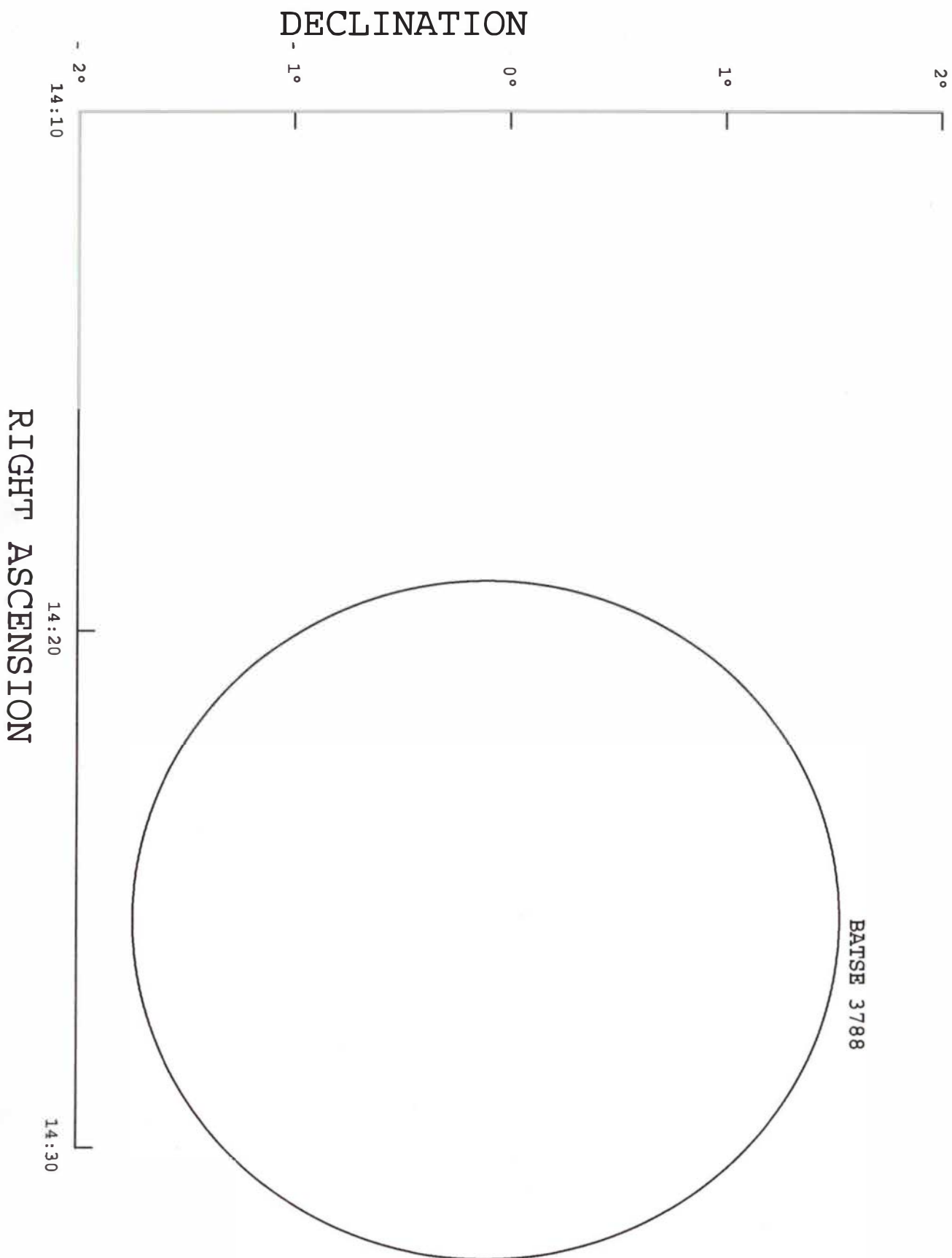
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF SEP 9, 1995 23:34

5/11/97



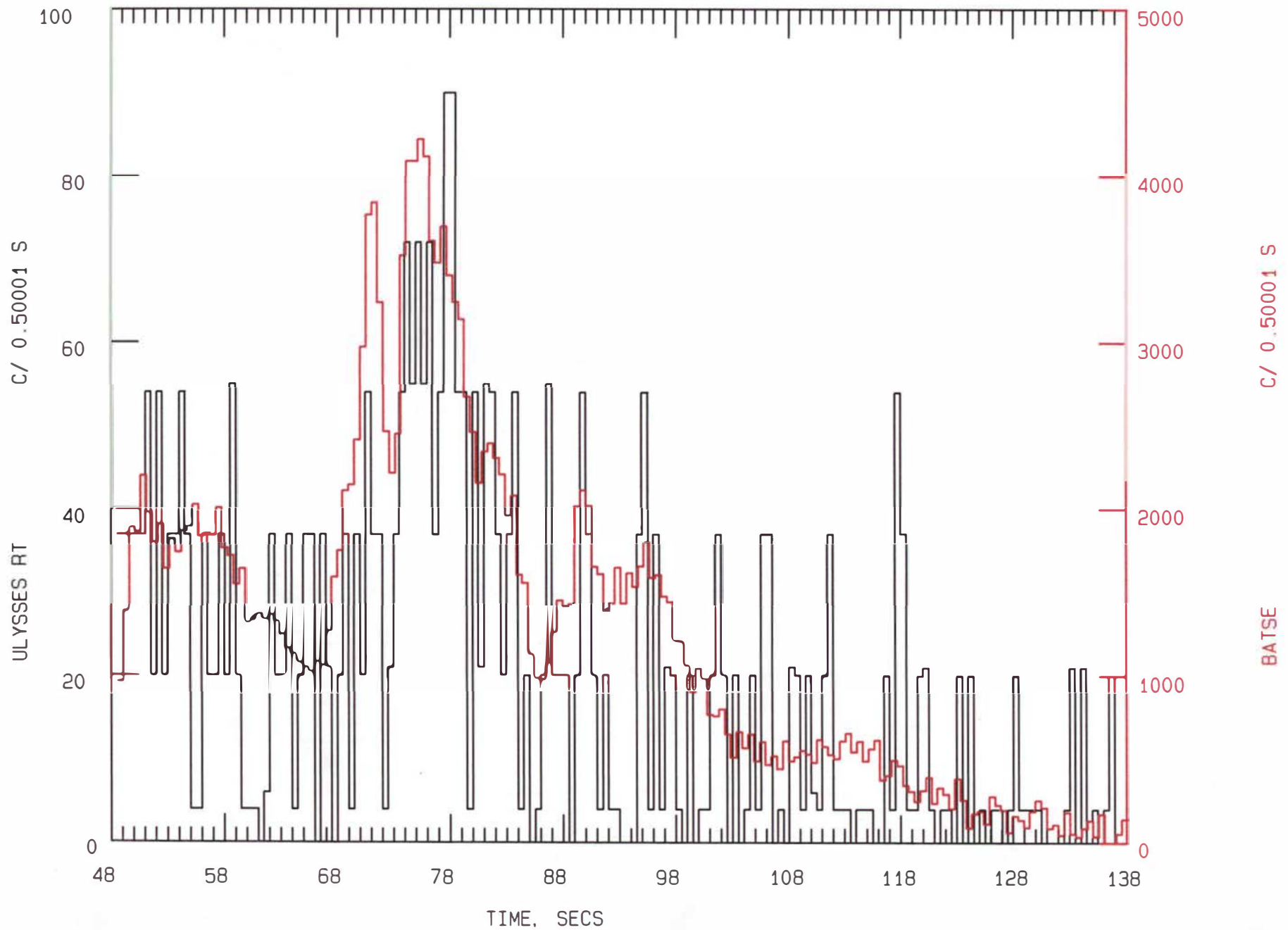
ULYSSES RT-BATSE

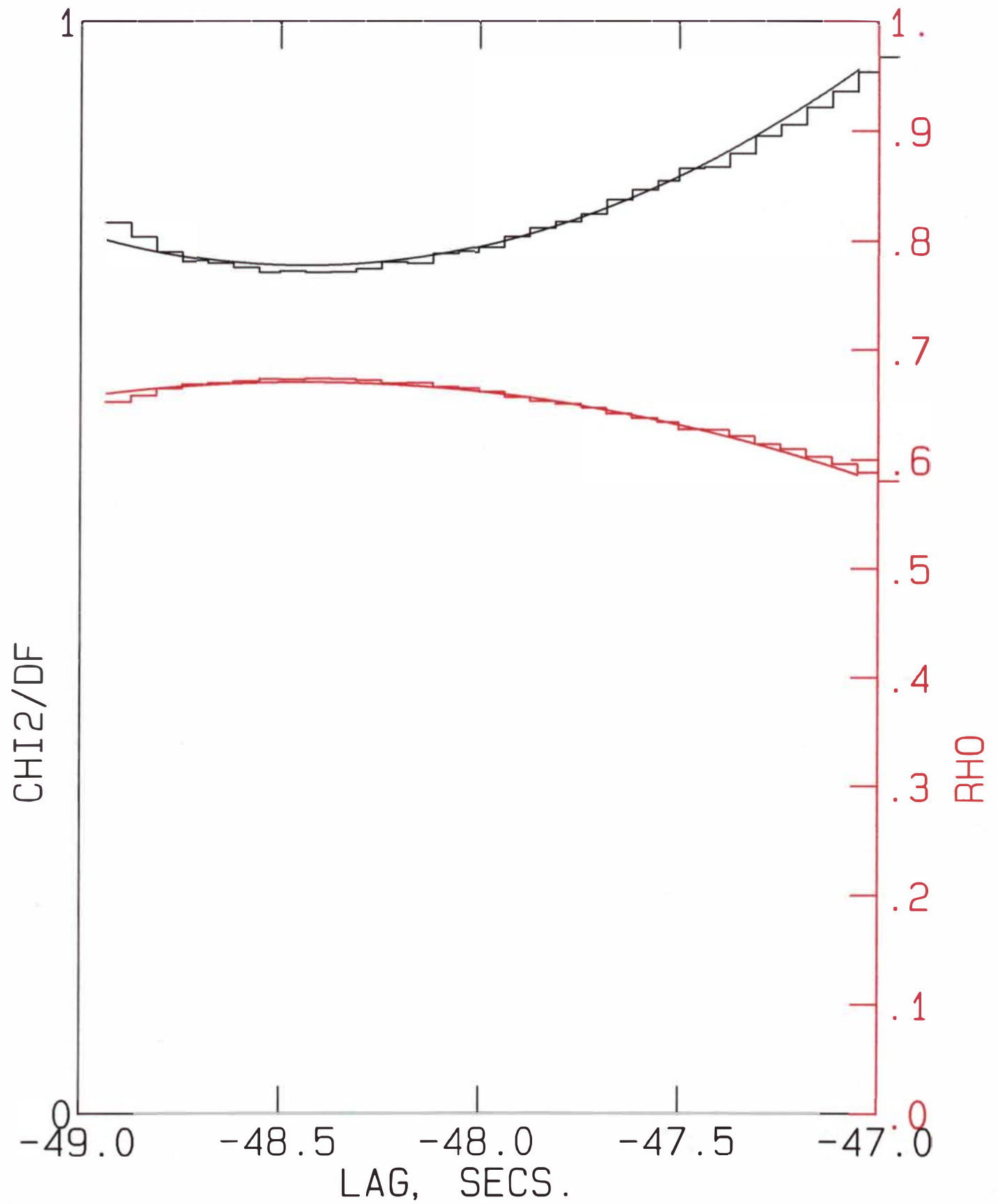
CORRELATION

9/ 9/95

84868.111

5/11/97





ULYSSES RT

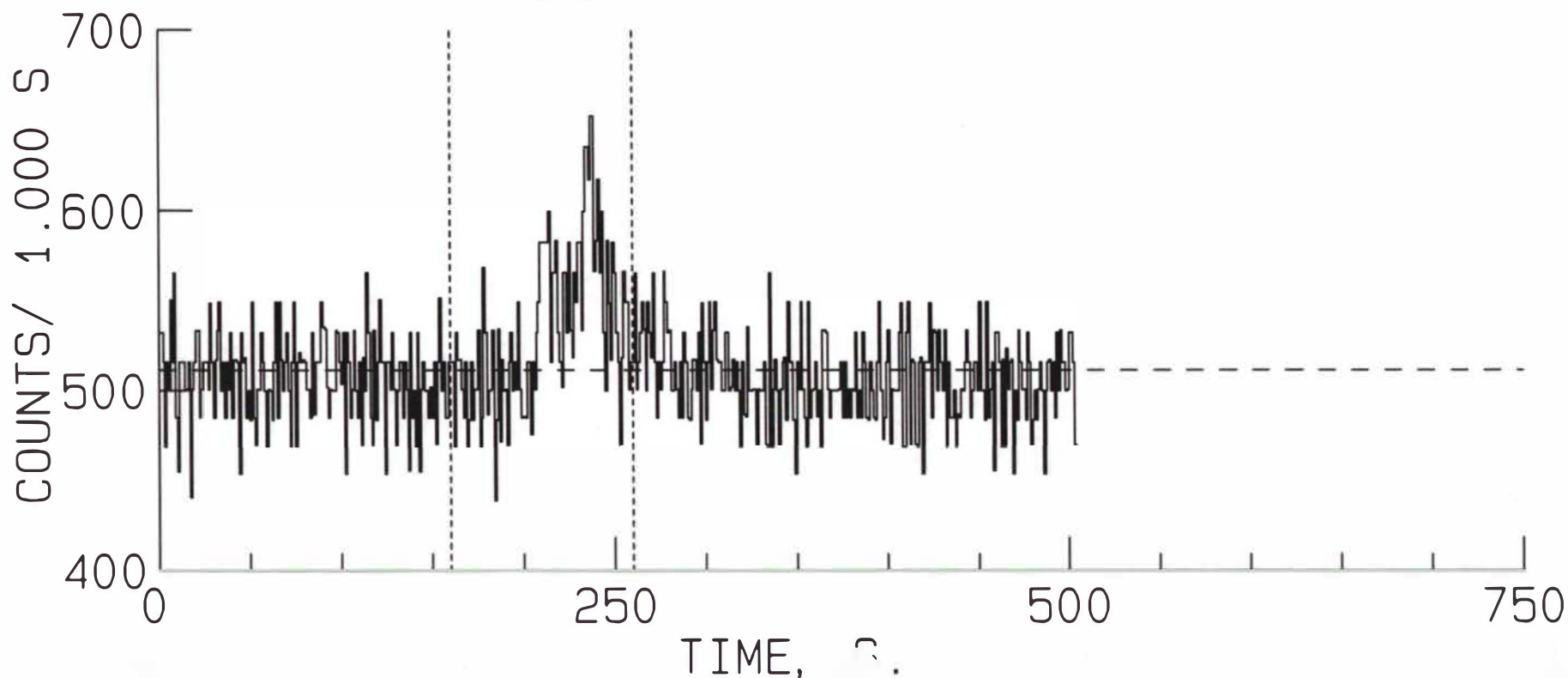
5 / 1 1 / 97

9/ 9/95 84708.073 s

0.250 S INTERVALS REGROUPED BY 4

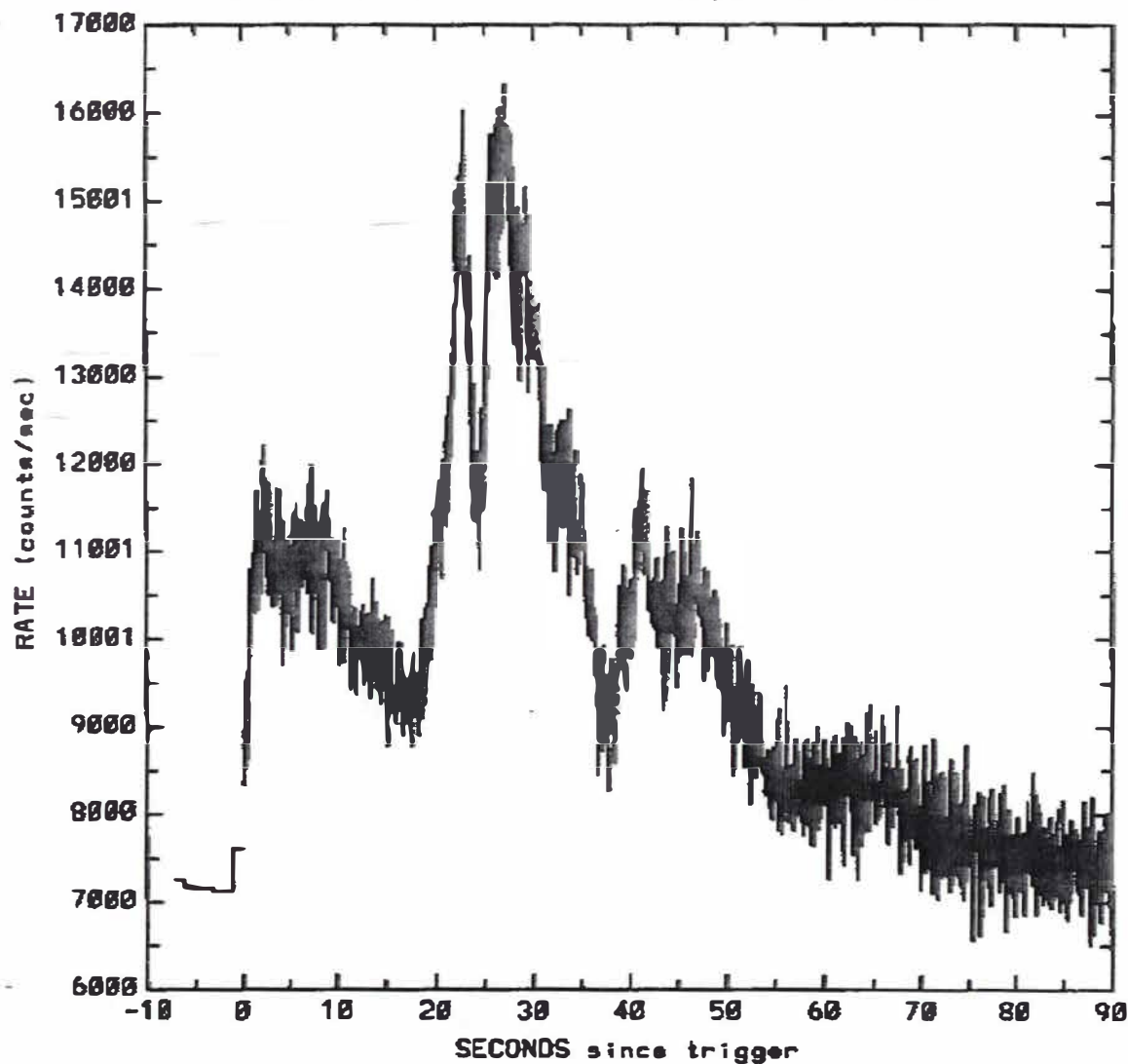
21- 143 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



Sep 9

DISCSC Data for K. Hurley. No. 3788



22-SEP-1995 09:59:14

Created by MDPS 80
(Burst Display)
Version t2.25

Trigger # : 3788

Trigger Time:
9969 / 85452.466Burst Data Type:
DISCSCDeadtime
Corrected: N
Background Data
Type: PREB + DISCLA
Minimum Integ. Time:
0.064 second(s)Detectors (7..8):
7---3---Discriminators:
[1 - 2]Quality Mask:
BDSP1

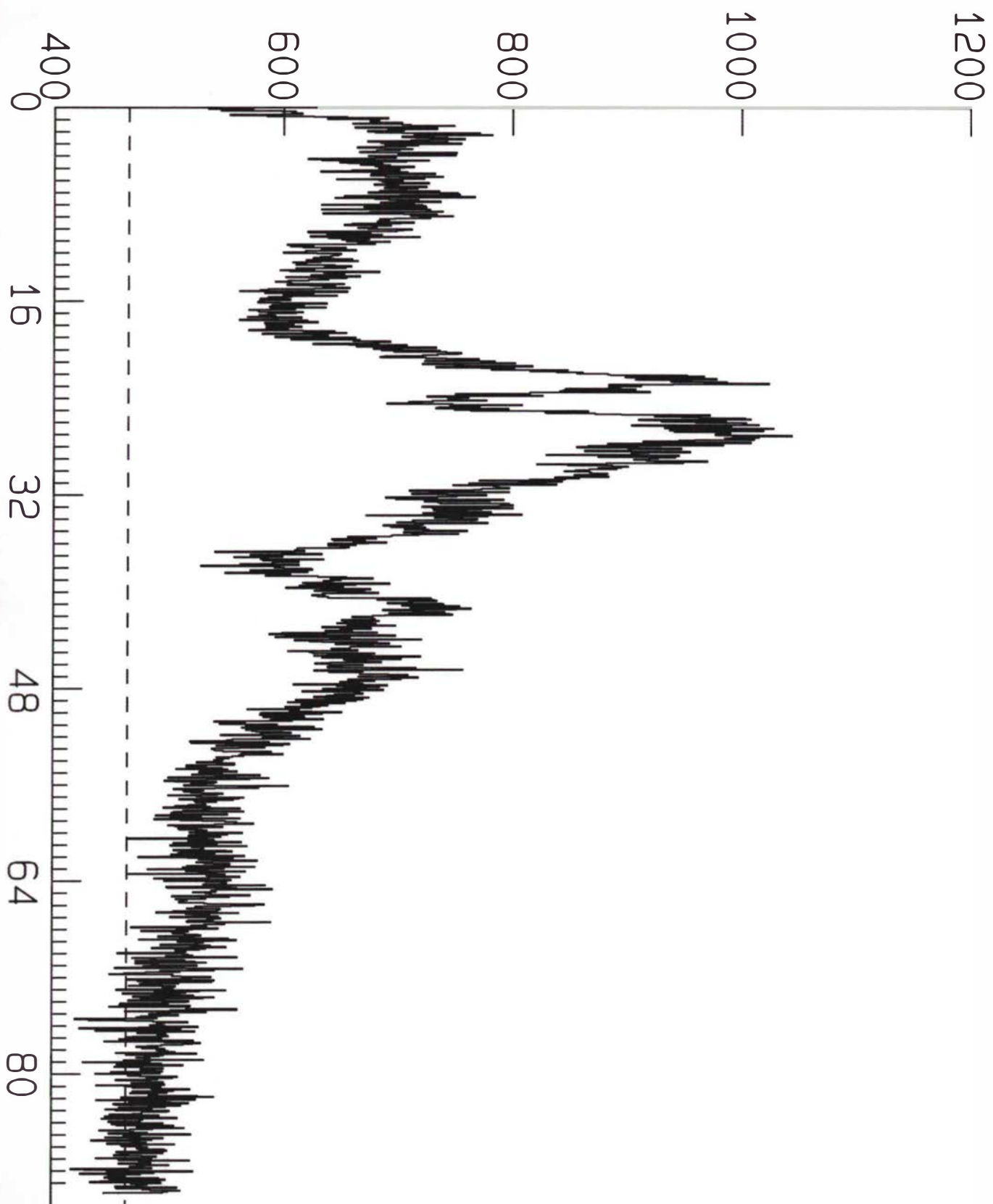
BATSE

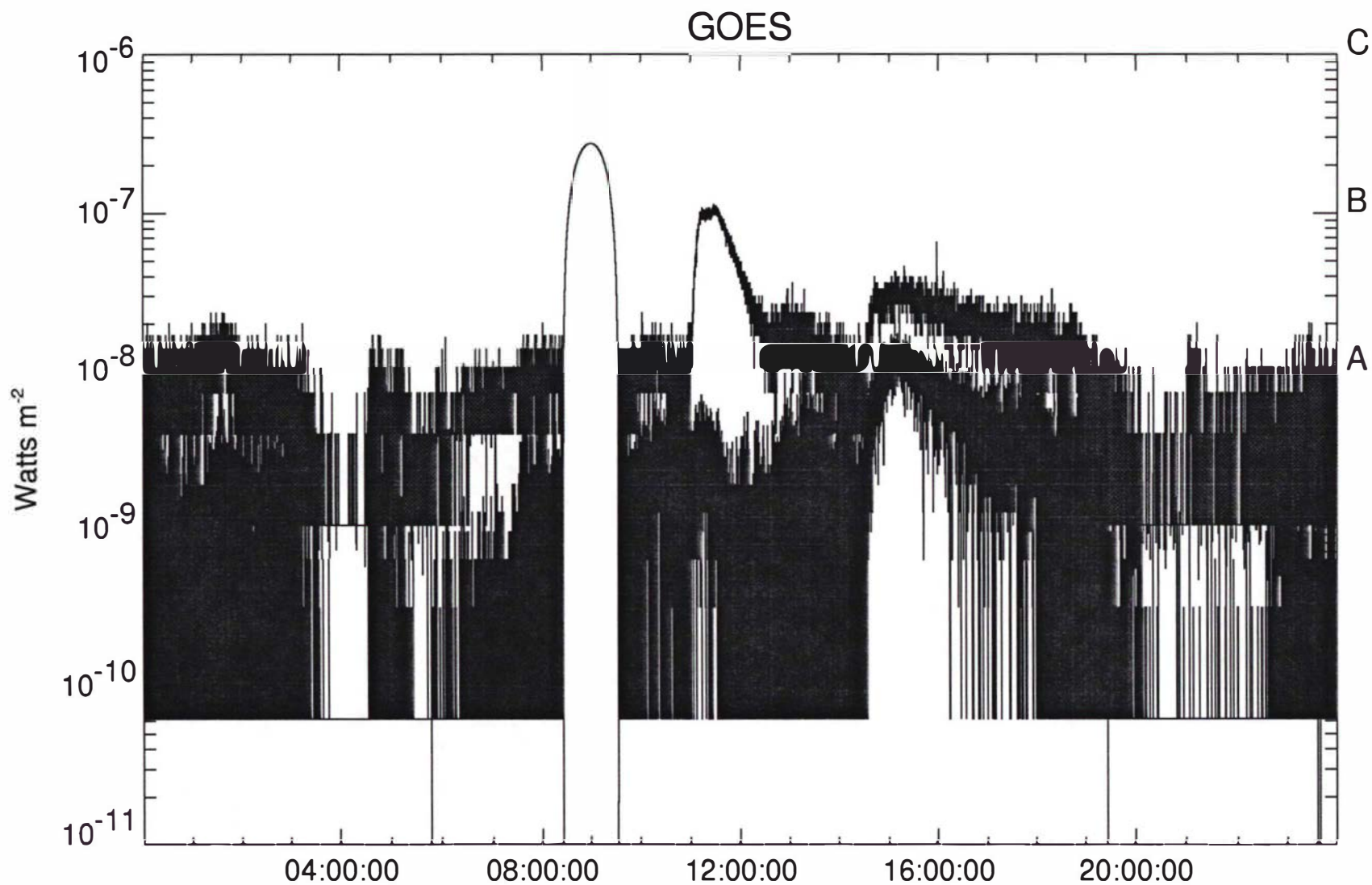
09/09/95

85452.466

25- 100 keV

COUNTS/0.064 S





Data Start: 95/09/09, 0000:02

Plot created: 95/09/25, 1337

Channel

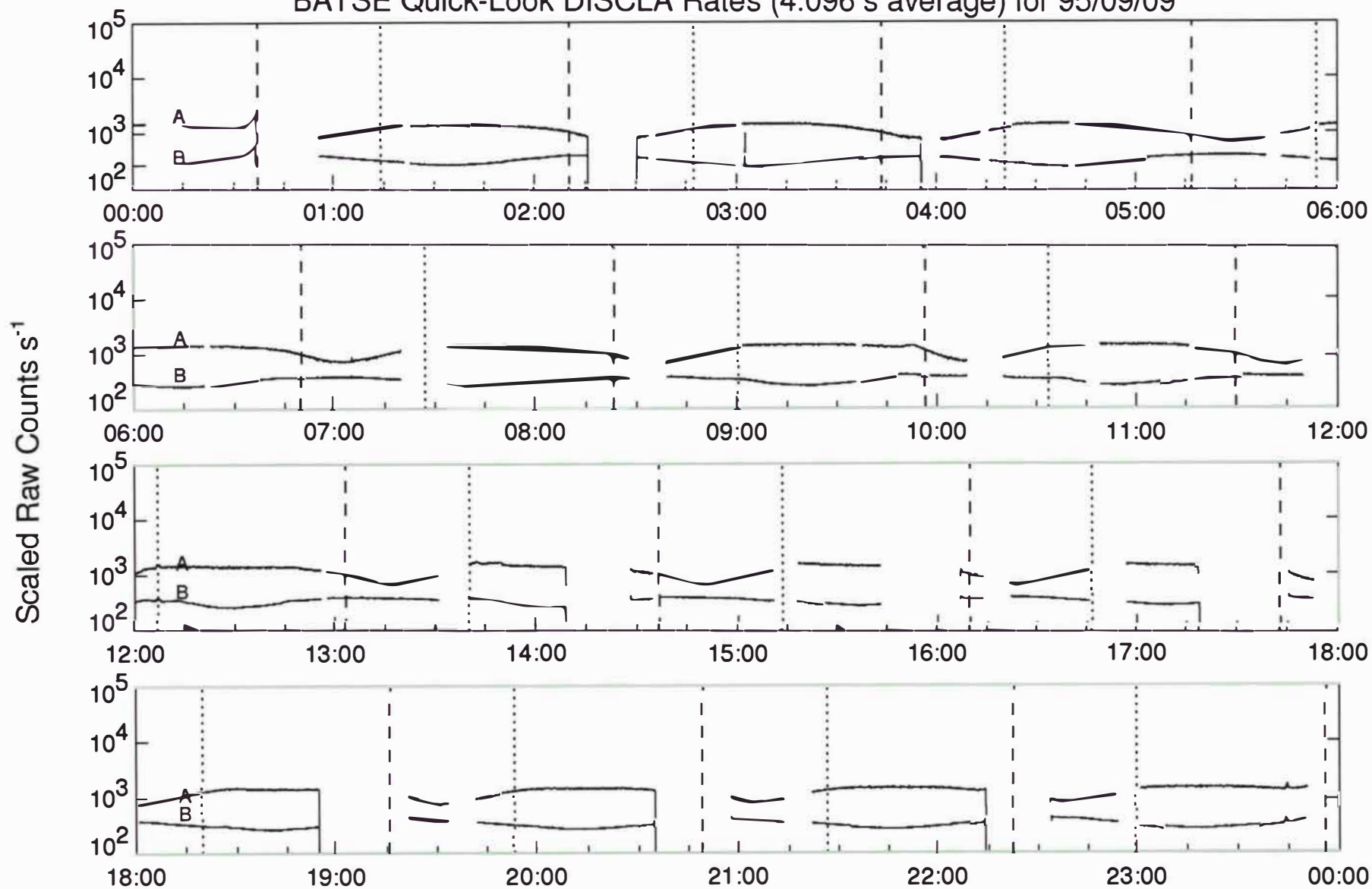
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/09



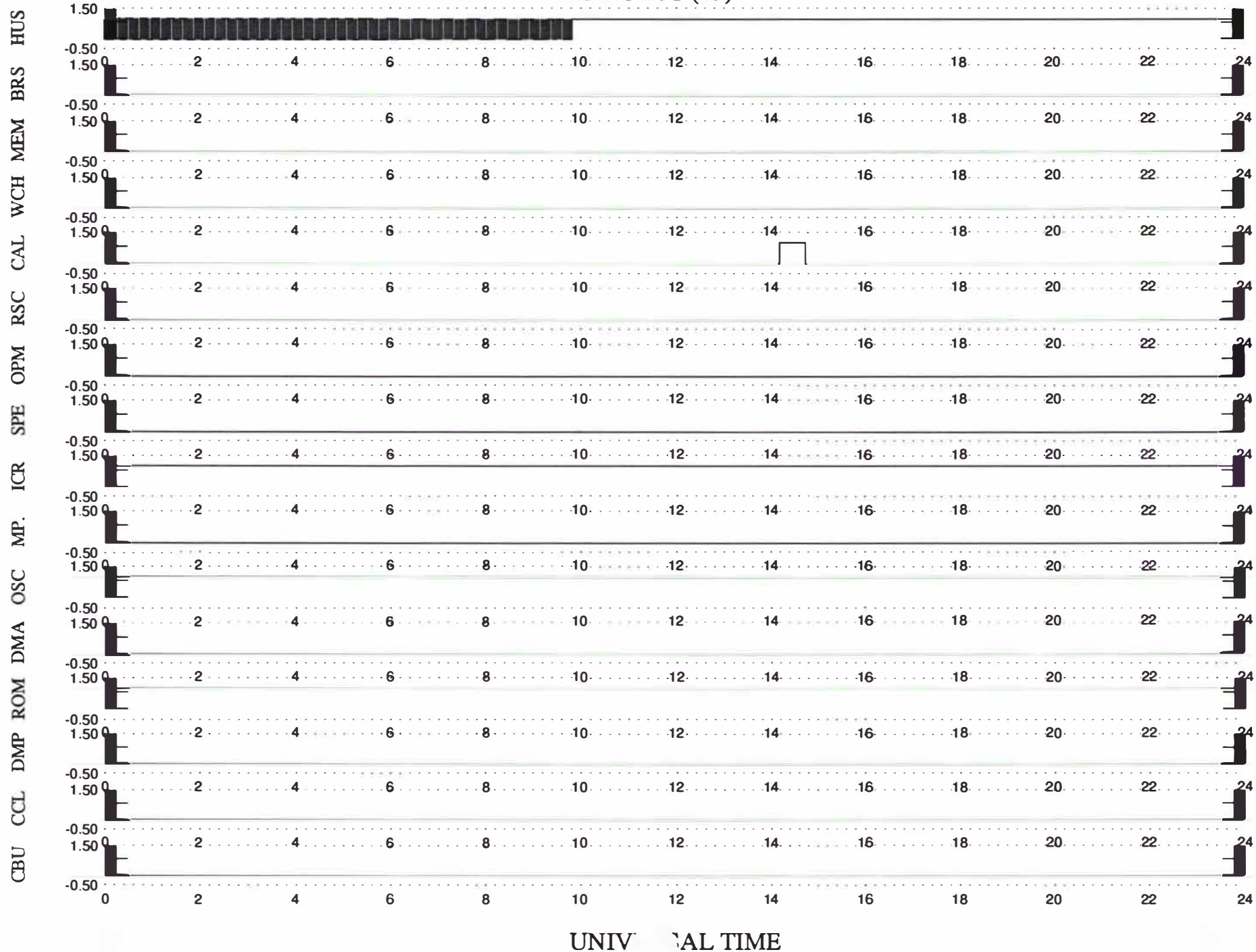
Current Time: 95/09/11, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

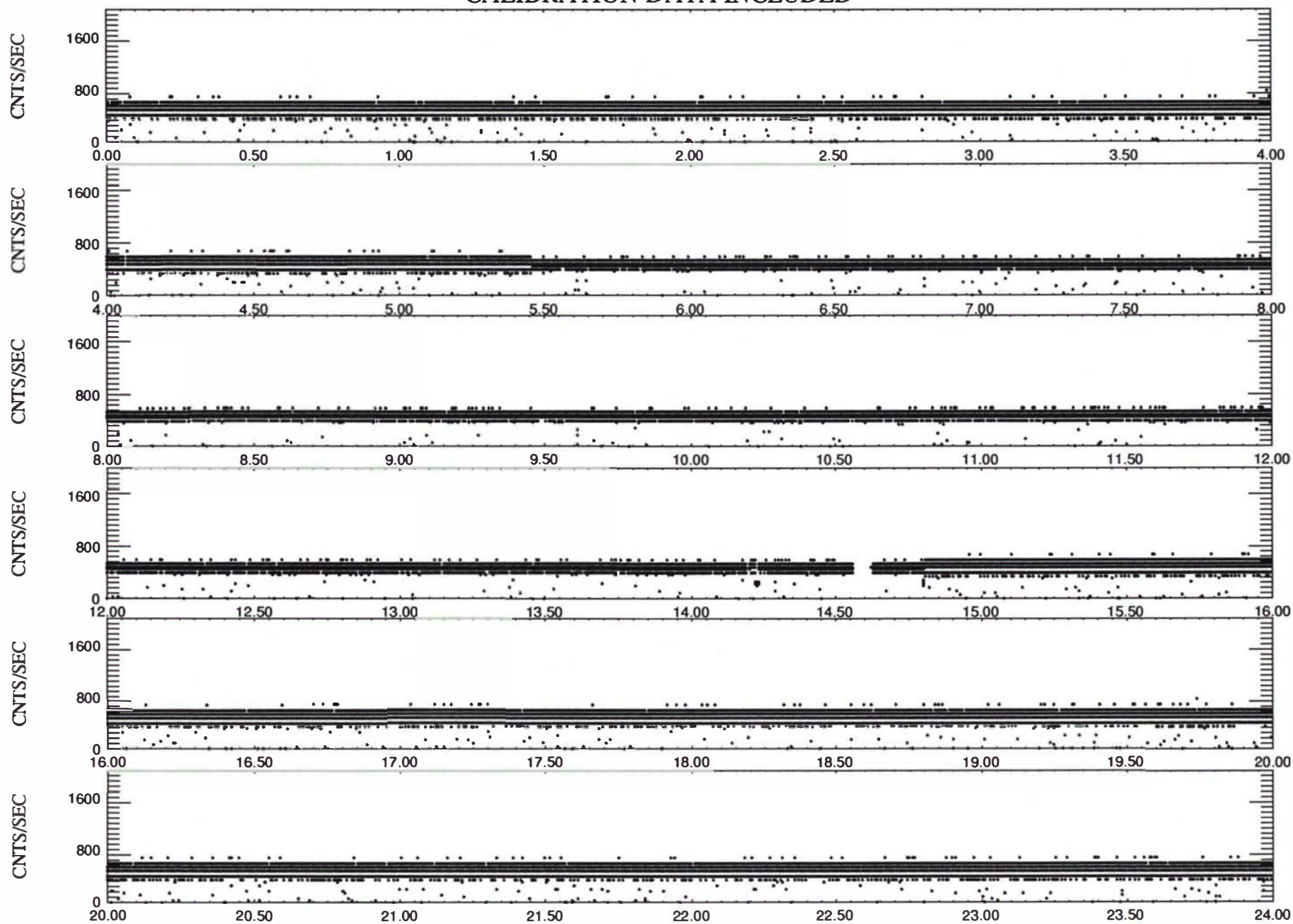
1/25/96

NO BURST (15)

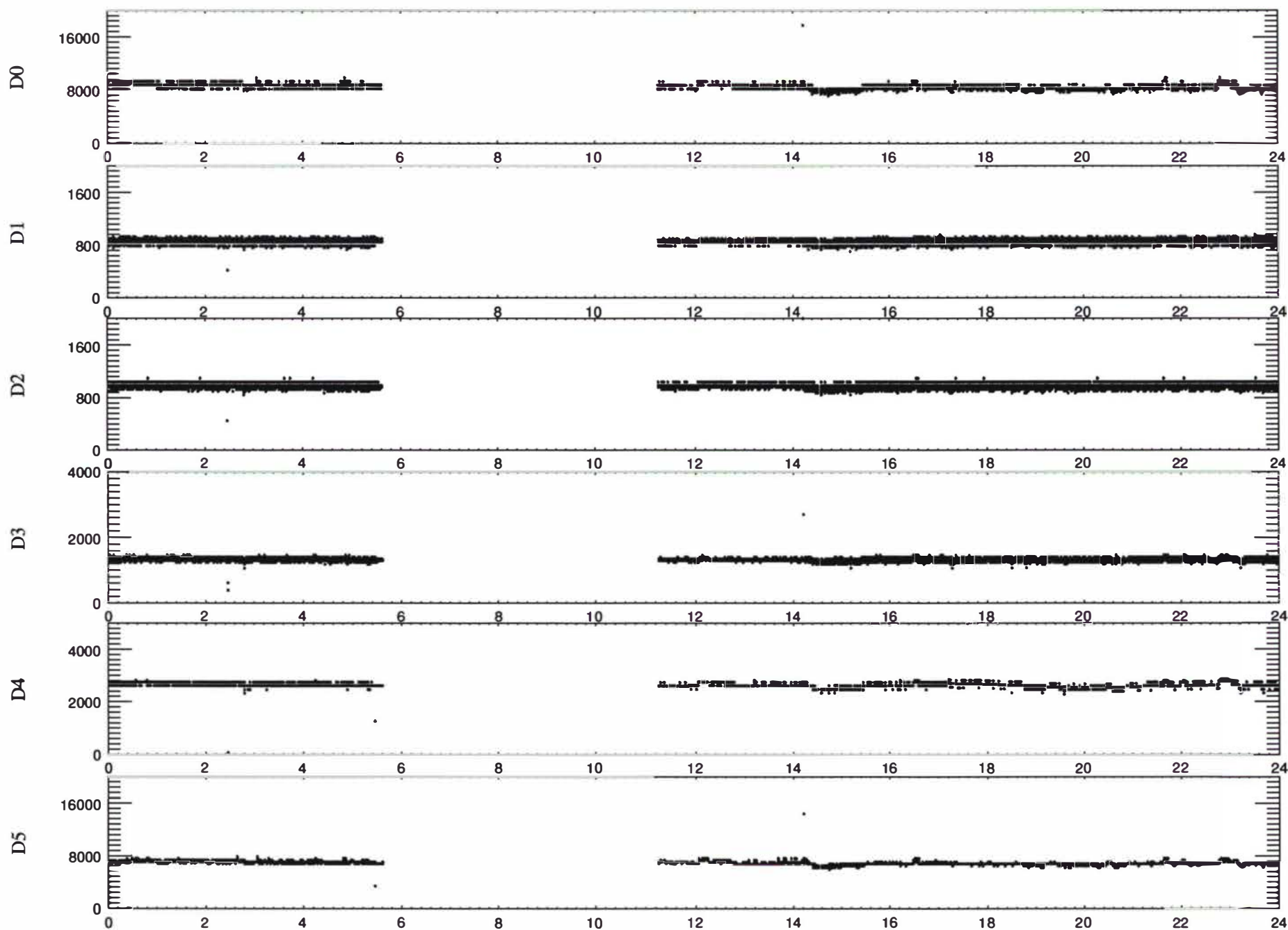


HUS 2A, MODE 1, NOT AVERAGED EDR day 252, year 1995 to day 252, year 1995
CALIBRATION DATA INCLUDED

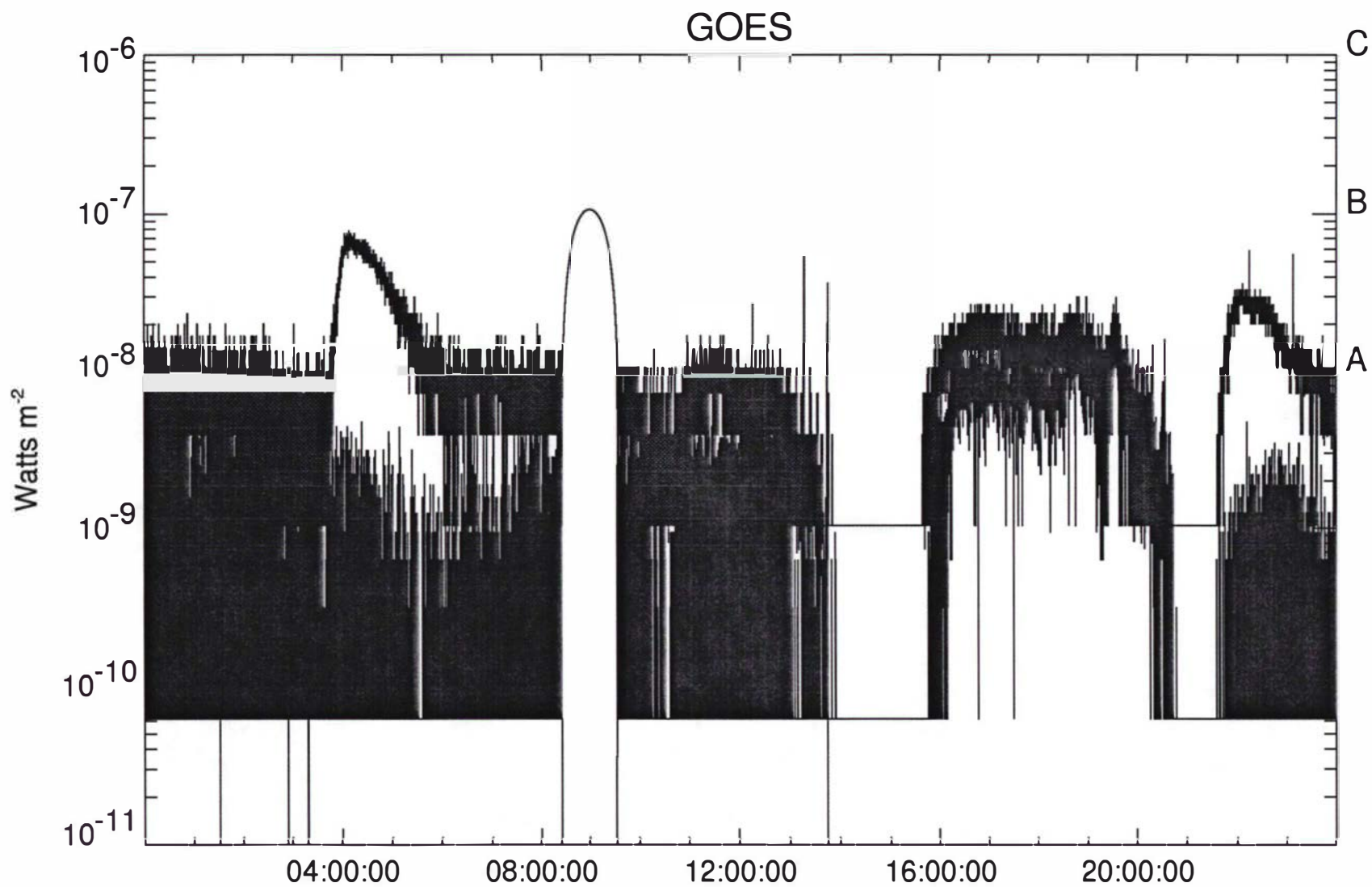
1/25/96



UNIV. CAL TIME



UNIV SAL TIME



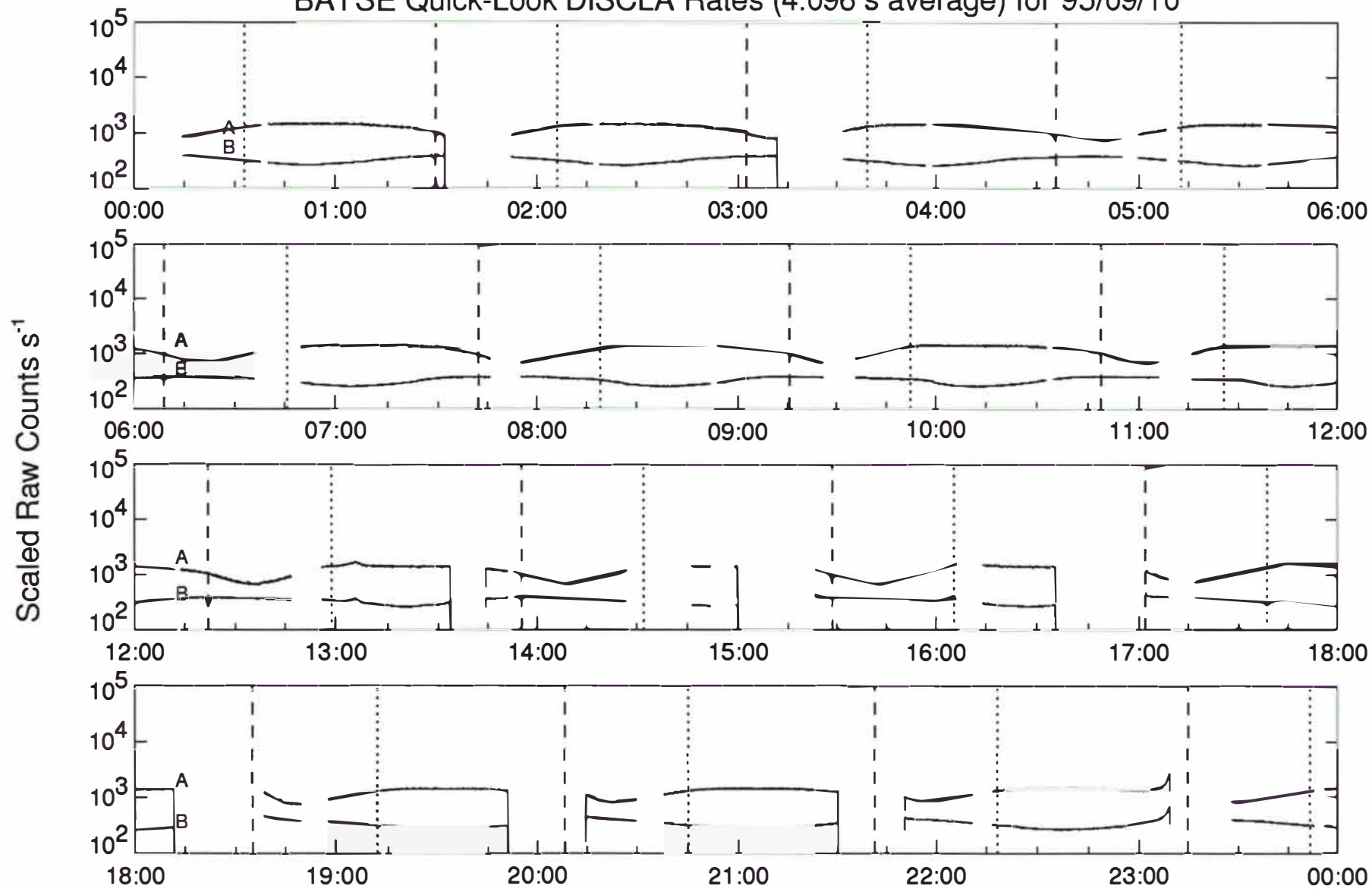
Data Start: 95/09/10, 0000:02

Plot created: 95/09/15, 1820

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/10

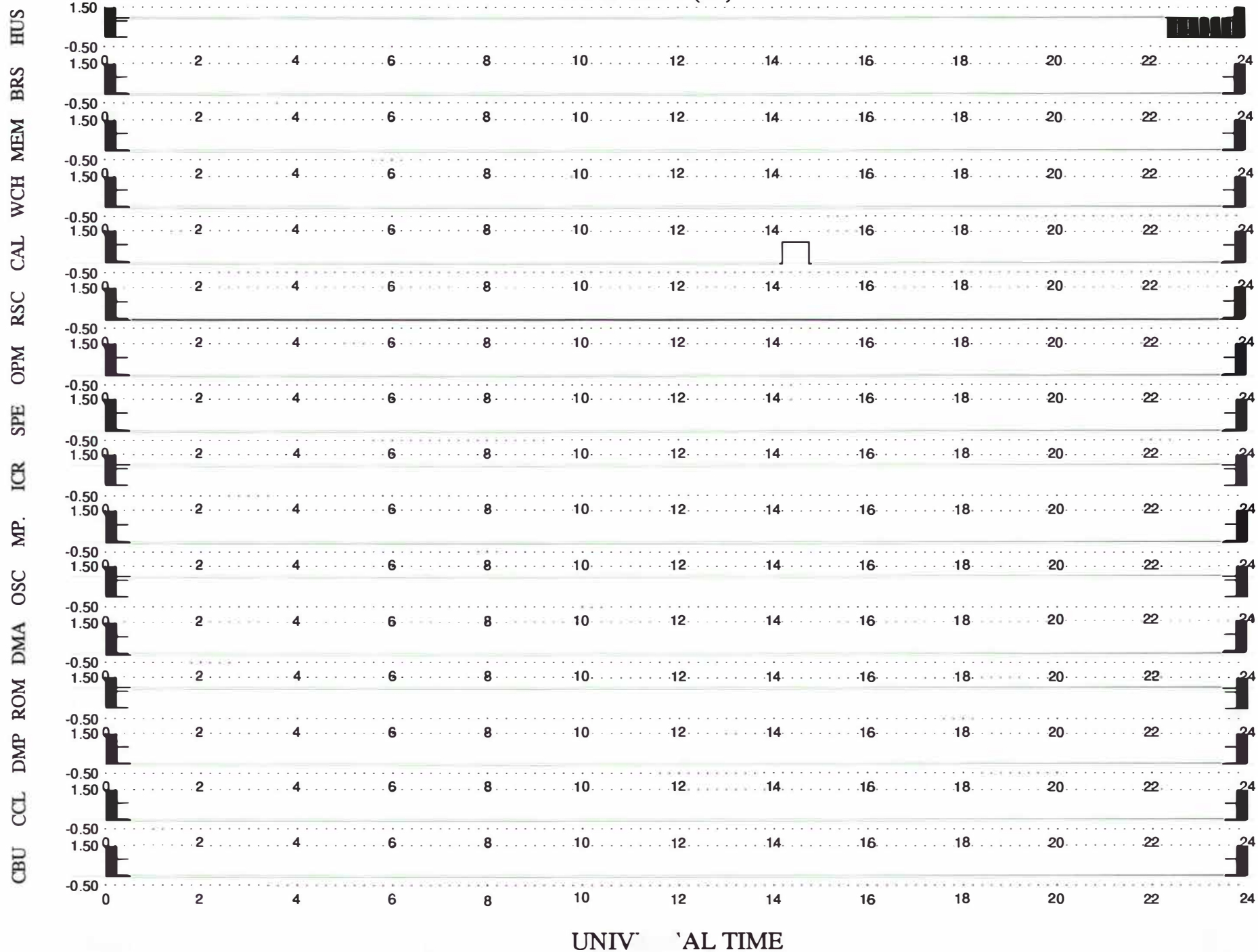


Current Time: 95/09/12, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

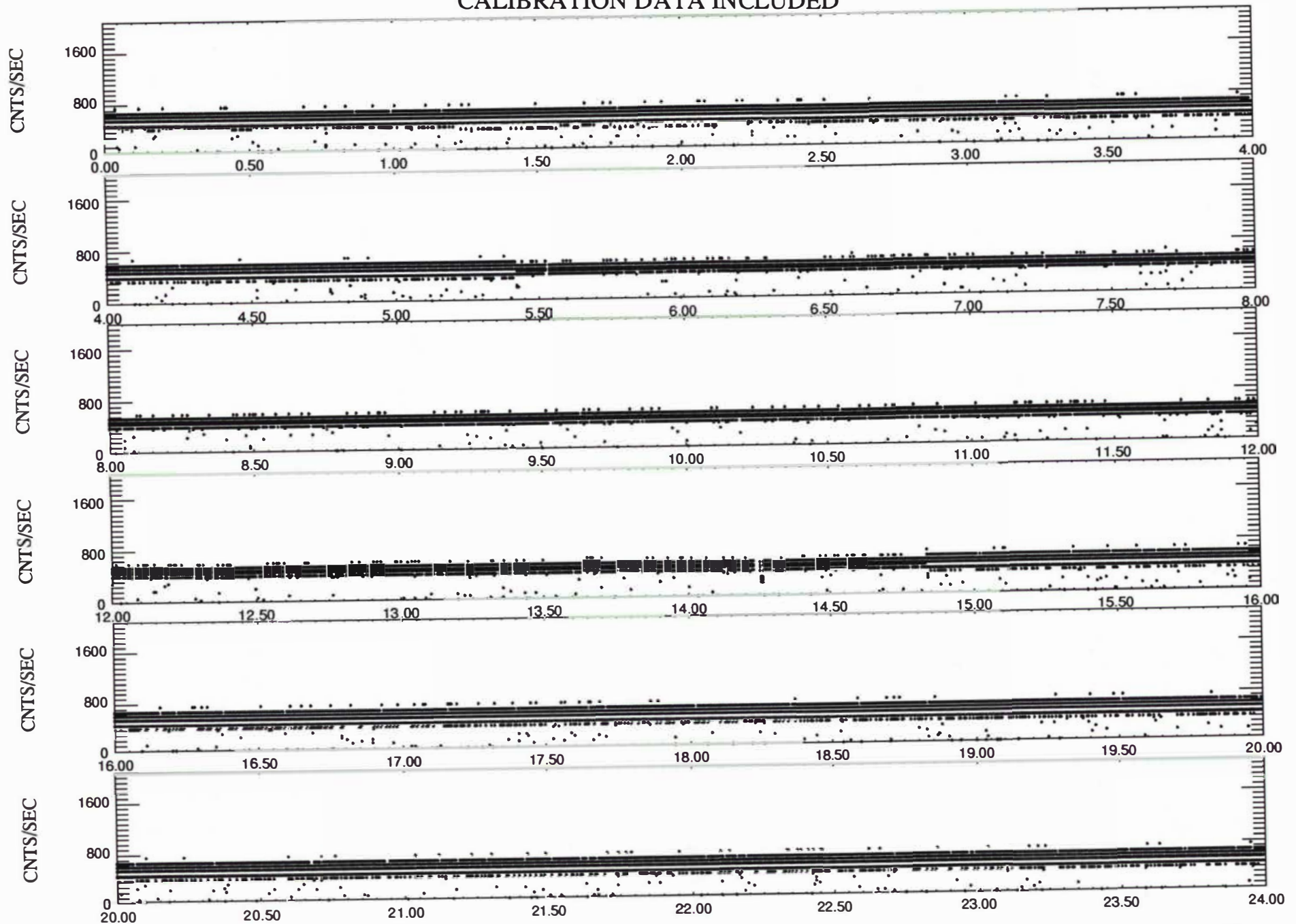
* Solar Burst Trigger
 + Solar Flare

1/25/96

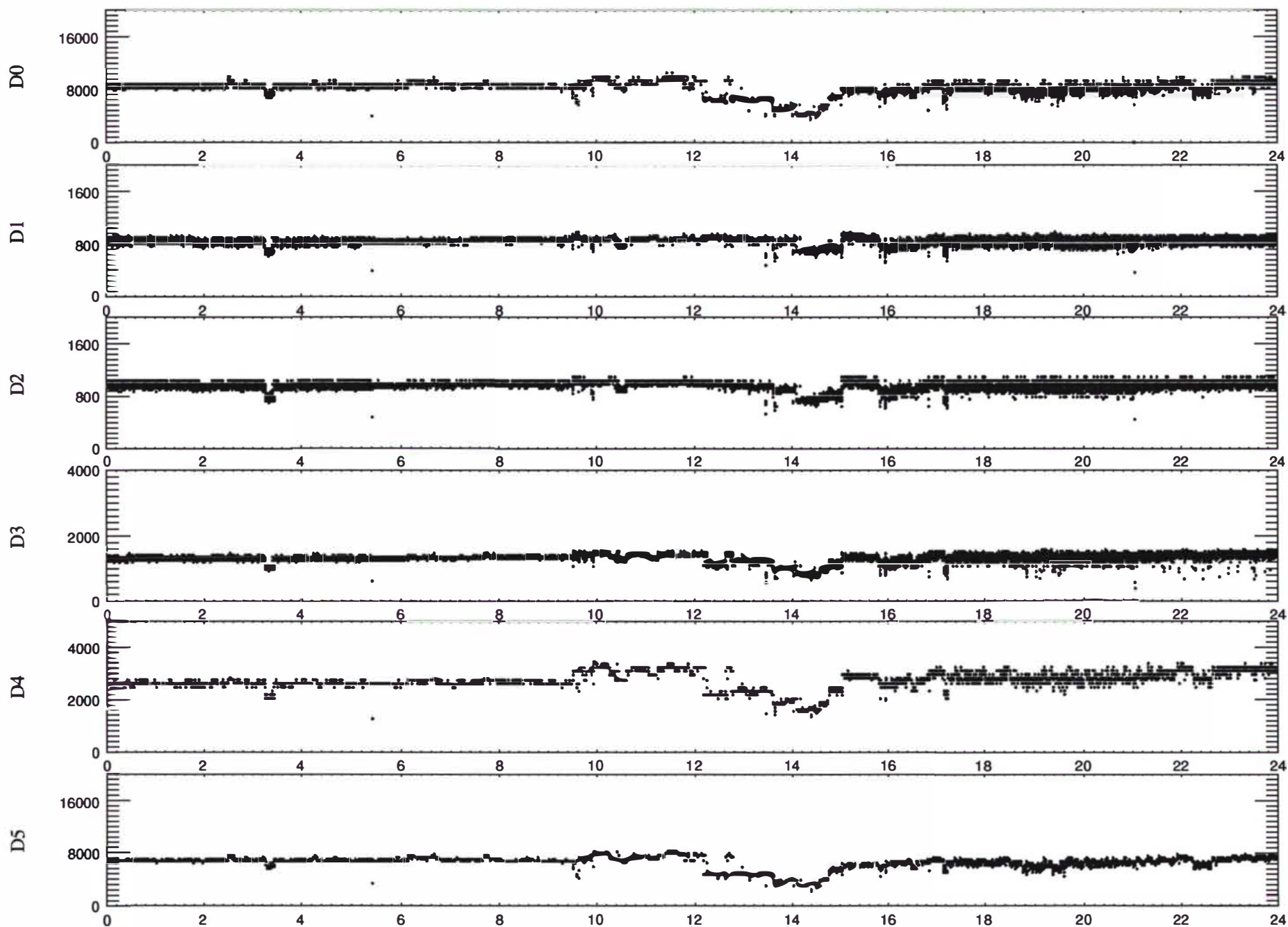


HUS 2A, MODE 1, NOT AVERAGED EDR day 253, year 1995 to day 253, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. CAL TIME



UNITS: SAL TIME

Date: Wed, 13 Sep 1995 14:51:41 -0500 (CDT)
From: WOODSP@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Message-Id: <950913145141.23e00b61@SSLLES.MSFC.NASA.GOV>
Subject: Crossing Windows for BATSE Burst 3789
Content-Type: text
Content-Length: 1135
X-Lines: 26
Status: RO

BATSEARCH PROGRAM

NO

BATSE BURST # 3789
EVENT OF 1995 SEP 11 DAY OF YEAR=254
EVENT CROSSING TIME AT BATSE : 23551. S. OR 06:32:31.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 227.000 -10.000
BATSE PEAK COUNTING RATE: 7500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 11/ 9/ 95 IS:
RA= 193.610 DEC= 65.786 DIST= 2.582 AU
BATSE-ULYSSES DISTANCE = 386214985. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=100.30 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -230.43 SECS.
CROSSING TIME AT ULYSSES IS 23321. S. OR 06:28:40 +/- 266.56 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 11/ 9/ 95 IS:
RA= 210.178 DEC= -12.562 DIST= 2.067 AU
MARS-BATSE DISTANCE = 309208704. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=163.31 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -987.95 SECS.
CROSSING TIME AT MARS IS 22563. S. OR 06:16:03 +/- 36.43 SECONDS

BATSE BURST TRIGGER

NO.: 3789

TIME: TJD=9971 SECONDS=23551

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=127.8 AZIMUTH=289.2 ERROR=1.9 DEGREES

COMMENTS:

GRB FRED DURATION ~ 30 SEC. VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3789	950911	9971	23551	7500	227	-10	30

14 / 9 / 95

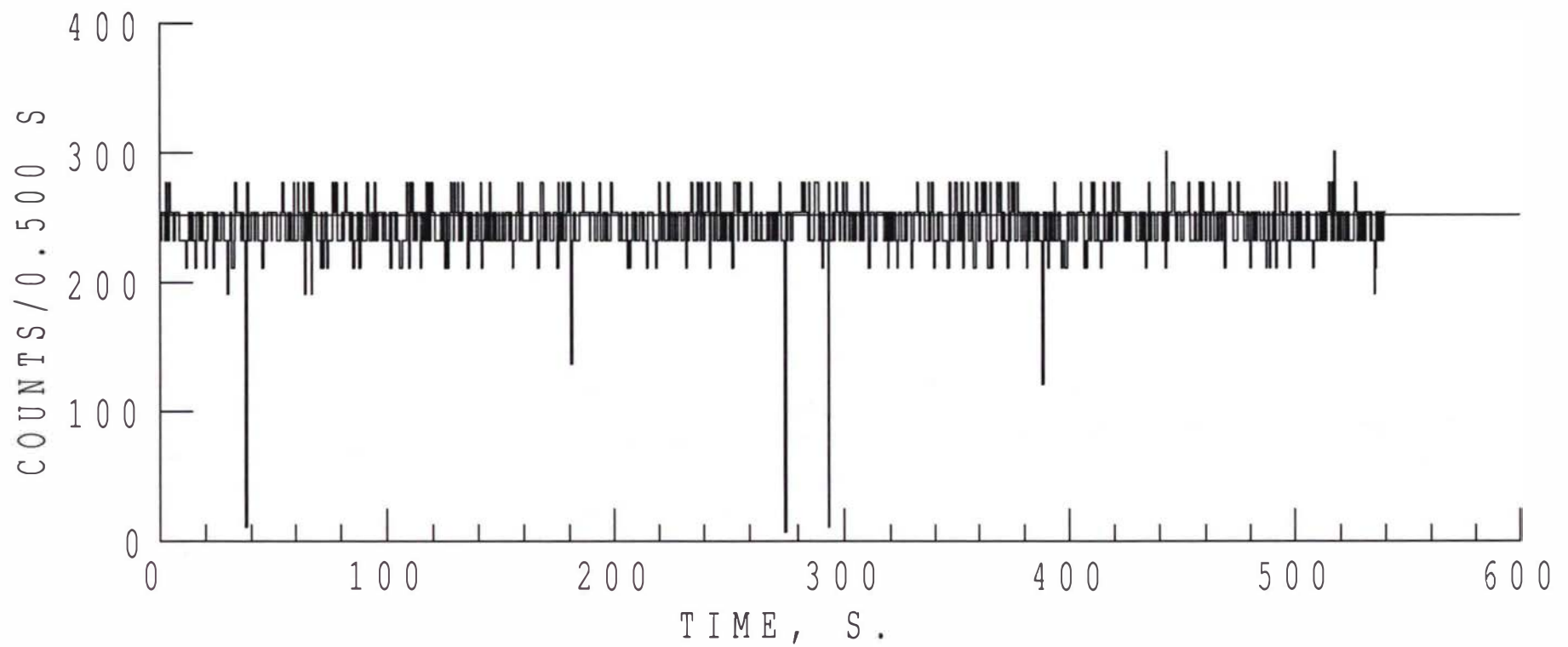
ULYSSES RT

11 / 9 / 95 23040.484 s

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS

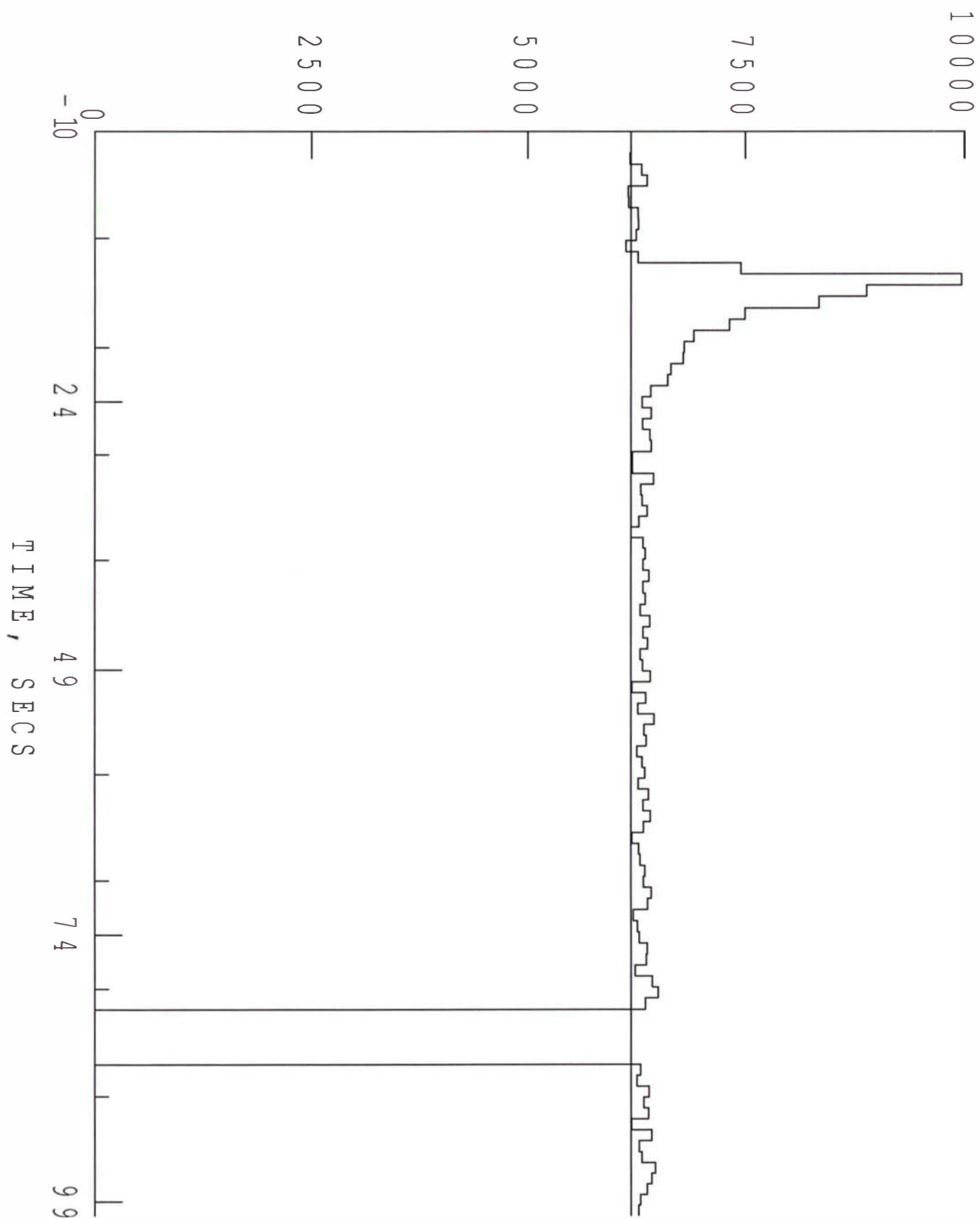


BACODINE

11/09/95

23539.377

25 - 100 keV
COUNTS/1.024 S



Sep 13 13:58

3790

1

From WOODSP@SSLLES.MSFC.NASA.GOV Wed Sep 13 13:47 PDT 1995
Return-Path: <WOODSP@SSLLES.MSFC.NASA.GOV>
Received: from SSLLES.MSFC.NASA.GOV by sunspot.ssl.berkeley.edu (SMI-8.6/SMI-SVR4)
id NAA17323; Wed, 13 Sep 1995 13:47:48 -0700
From: WOODSP@SSLLES.MSFC.NASA.GOV
Date: Wed, 13 Sep 1995 15:47:44 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Message-Id: <950913154744.23e00b61@SSLLES.MSFC.NASA.GOV>
Subject: Crossing Windows for BATSE Burst 3790
Content-Type: text
Content-Length: 1135
X-Lines: 26

N0

BATSEARCH PROGRAM

BATSE BURST # 3790
EVENT OF 1995 SEP 11 DAY OF YEAR=254
EVENT CROSSING TIME AT BATSE : 31524. S. OR 08:45:24.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 21.000 46.000
BATSE PEAK COUNTING RATE: 4400 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 11/ 9/ 95 IS:
RA= 193.655 DEC= 65.757 DIST= 2.582 AU
BATSE-ULYSSES DISTANCE = 386317280. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=111.90 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -480.66 SECS.
CROSSING TIME AT ULYSSES IS 31043. S. OR 08:37:23 +/- 250.28 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 11/ 9/ 95 IS:
RA= 210.178 DEC= -12.562 DIST= 2.067 AU
MARS-BATSE DISTANCE = 309208704. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 34.33 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 851.74 SECS.
CROSSING TIME AT MARS IS 32376. S. OR 08:59:35 +/- 113.92 SECONDS

BATSE BURST TRIGGER

NO.: 3790

TIME: TJD=9971 SECONDS=31524

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=79.4 AZIMUTH=144.3 ERROR=3.3 DEGREES

COMMENTS:

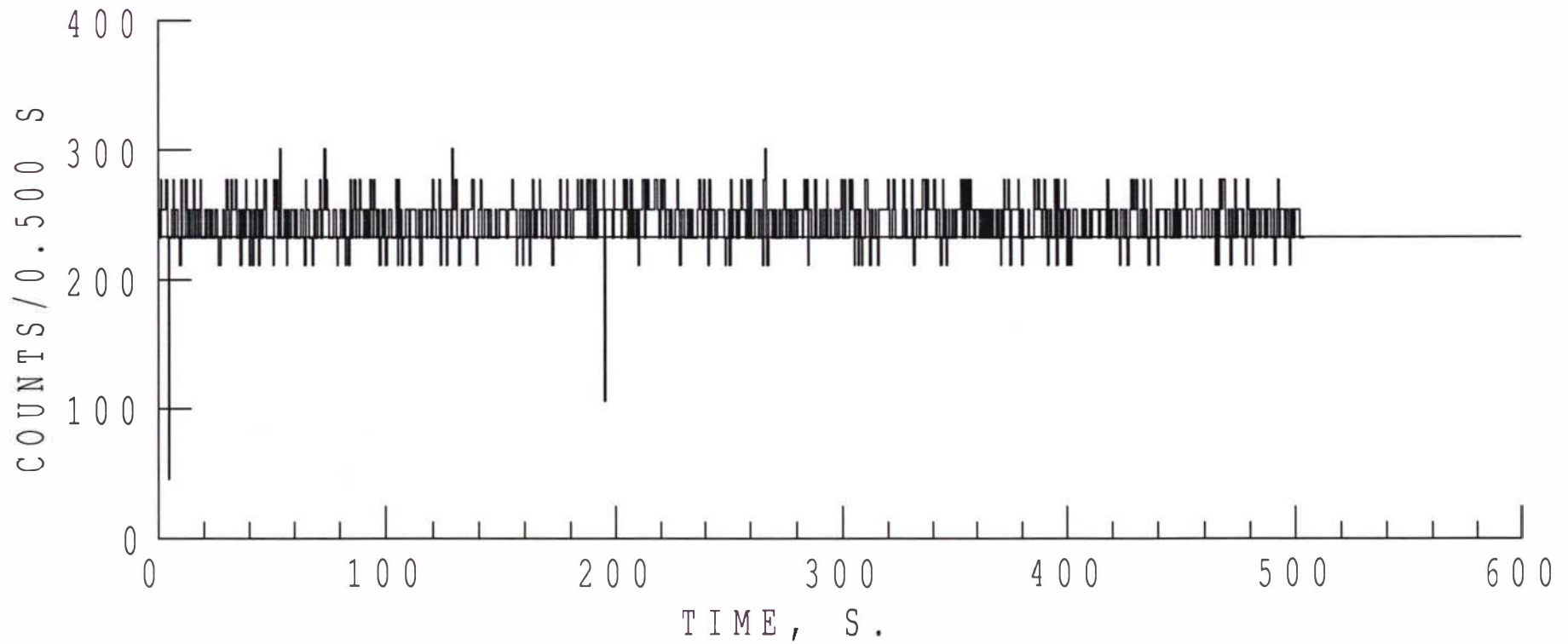
GRB WITH LOTS OF STRUCTURE. VISIBLE ABOVE 300 KEV. DURATION ~ 80 SEC.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3790	950911	9971	31524	4400	021	+46	80

14 / 9 / 95

ULYSSES RT
11 / 9 / 95 30780.123 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



Sep 13 14:04

3791

1

From WOODSP@ssl.msfc.nasa.gov Wed Sep 13 13:51 PDT 1995
Return-Path: <WOODSP@ssl.msfc.nasa.gov>
Received: from SSLMOR.MSFC.NASA.GOV by sunspot.ssl.berkeley.edu (SMI-8.6/SMI-SVR4)
id NAA17429; Wed, 13 Sep 1995 13:51:24 -0700
Date: Wed, 13 Sep 1995 15:51:20 -0500 (CDT)
From: WOODSP@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Message-Id: <950913155120.23e00b61@SSLLES.MSFC.NASA.GOV>
Subject: Crossing Windows for BATSE Burst 3791
Content-Type: text
Content-Length: 1135
X-Lines: 26
Status: 0

RI - MAYBE -
but too weak to
be sure

BATSEARCH PROGRAM

BATSE BURST # 3791
EVENT OF 1995 SEP 11 DAY OF YEAR=254
EVENT CROSSING TIME AT BATSE : 53054. S. OR 14:44:14.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 162.000 -15.000
BATSE PEAK COUNTING RATE: 13000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 11/ 9/ 95 IS:
RA= 193.778 DEC= 65.676 DIST= 2.584 AU
BATSE-ULYSSES DISTANCE = 386596306. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 95.88 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -132.01 SECS.
CROSSING TIME AT ULYSSES IS 52922. S. OR 14:42:01 +/- 270.70 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 11/ 9/ 95 IS:
RA= 210.178 DEC= -12.562 DIST= 2.067 AU
MARS-BATSE DISTANCE = 309208704. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=133.23 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -706.48 SECS.
CROSSING TIME AT MARS IS 52348. S. OR 14:32:27 +/- 119.74 SECONDS

BATSE BURST TRIGGER

NO.: 3791

TIME: TJD=9971 SECONDS=53054

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=121.5 AZIMUTH=7.6 ERROR=6.7 DEGREES

COMMENTS:

SHORT GRB WITH 2 PEAKS. TOTAL DUR. ~ 0.4 SEC. VISIBLE IN CHANNEL 4.

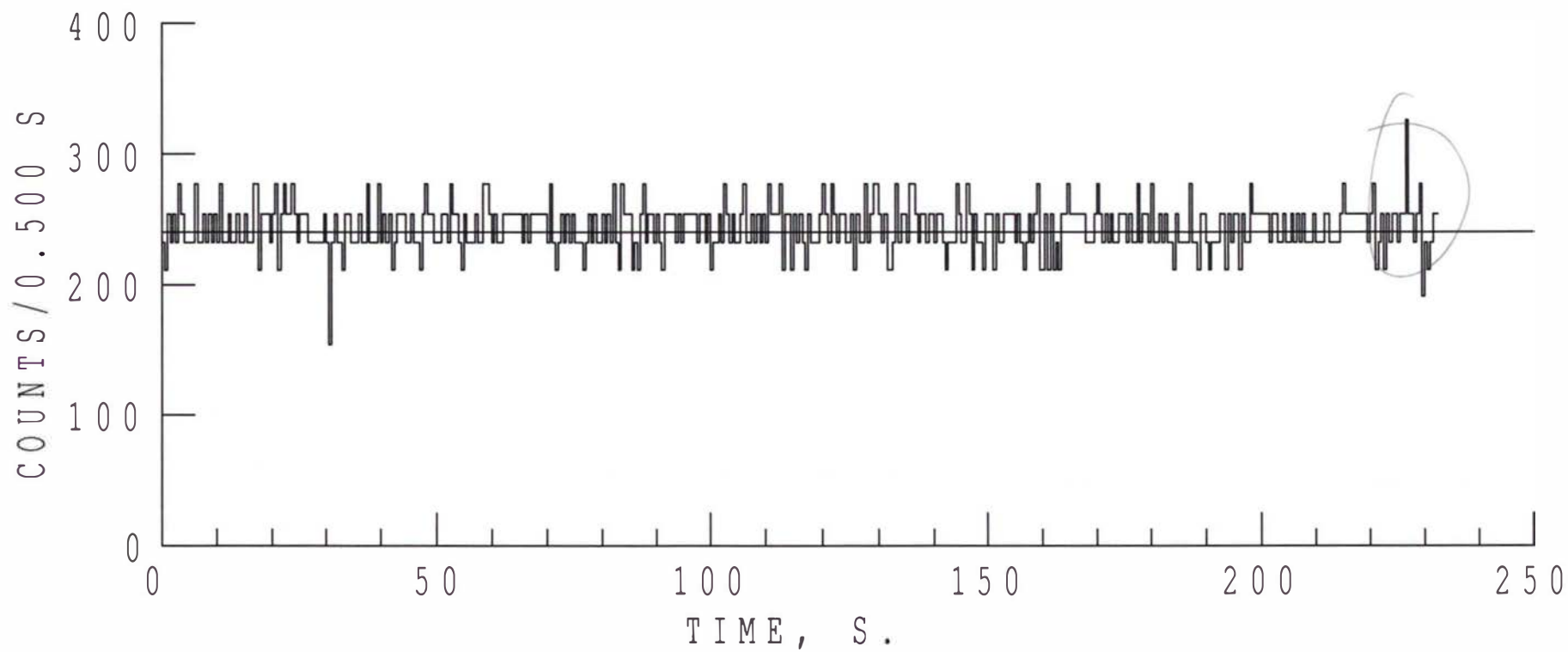
BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3791	950911	9971	53054	13000	162	-15	.4

$13000 \times 0.4 = 5200 \text{ C} \Rightarrow 50-100 \text{ in Ulysses}$

14 / 9 / 95

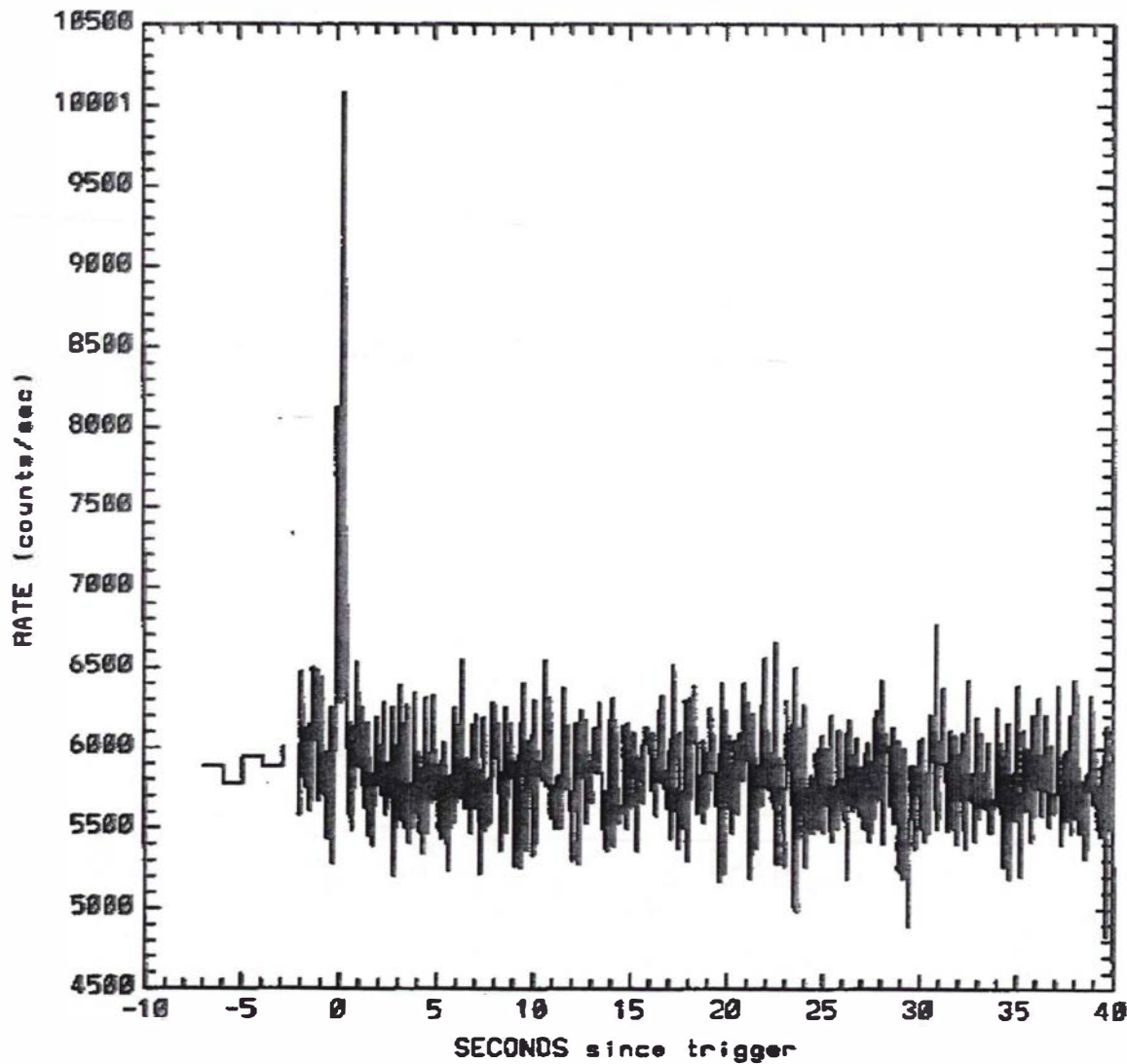
ULYSSES RT
11 / 9 / 95 52975.508 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



Sep 11 A

DISCSC Data for K. Hurley. No. 3791



22-SEP-1995 18.53.23

Created by MOPS 80
(Burst Display)
Version 62.25

Trigger # : 3791

Trigger Time:
9971 / 53854.898Burst Data Type:
DISCSCDeadtime
Corrected: N
Background Data
Type: PREB + DISCLA
Minimum Integ. Time:
0.064 second(s)Detectors [7..6]:
----3-1-Discriminators:
1 1 . 2 1Quality Mask:
80ISP1

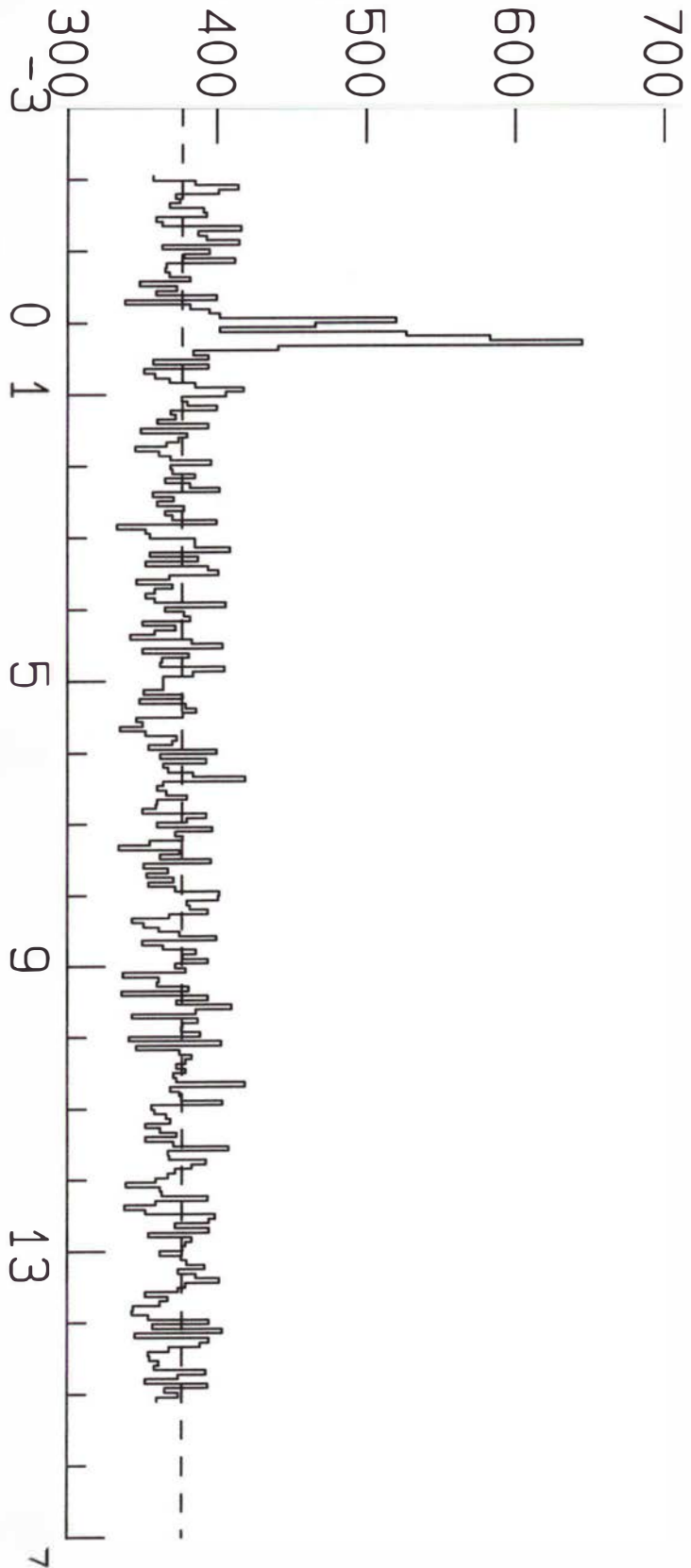
BATSE

11/09/95

53054.898

25- 100 keV

COUNTS/0.064 S



7/10/95

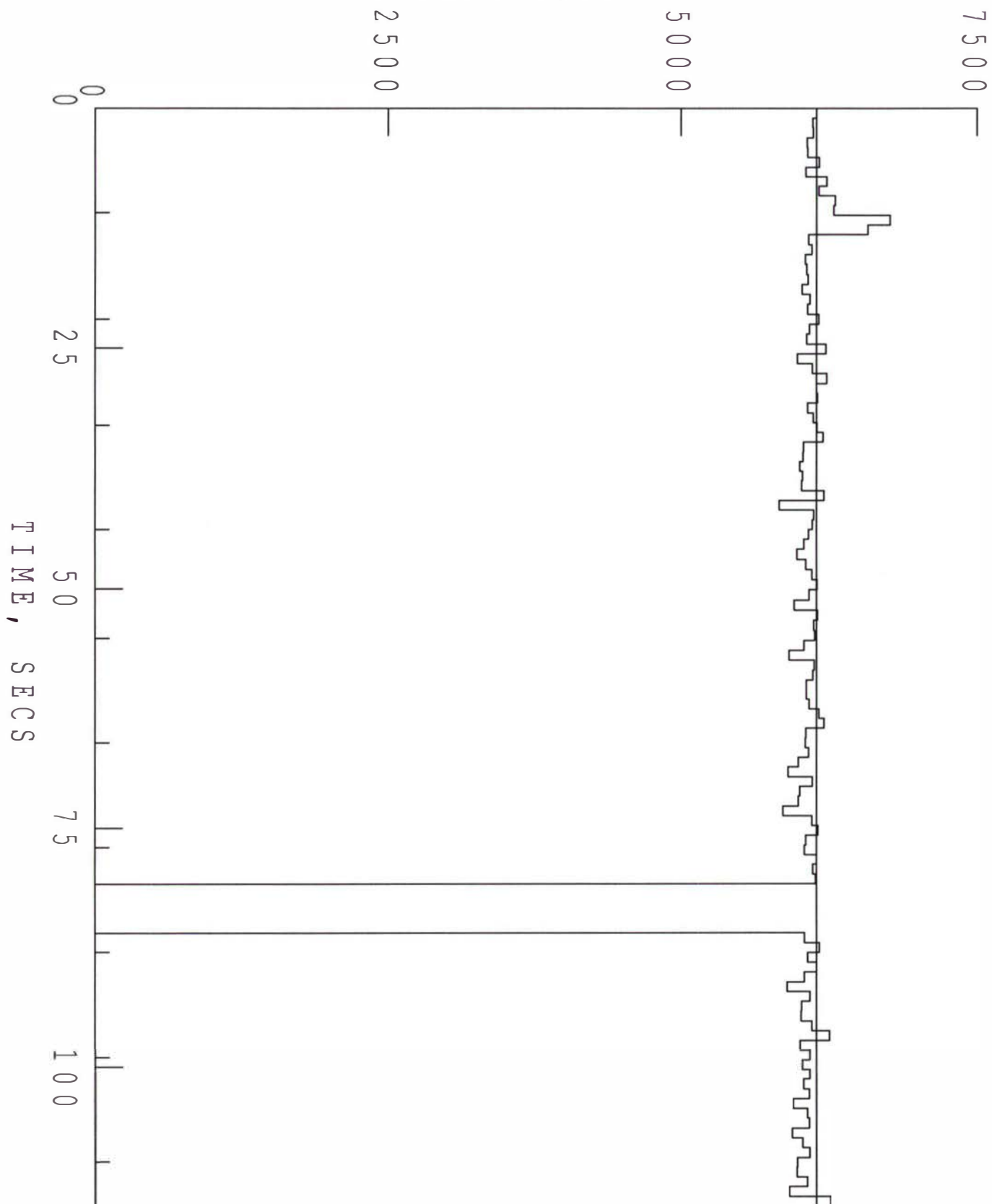
BACODINE

11/09/95

53042.865

25 - 100 keV

COUNTS/1.024 S



Sep 13 16:20

3792

1

From WOODSP@SSLLES.MSFC.NASA.GOV Wed Sep 13 13:56 PDT 1995
Return-Path: <WOODSP@SSLLES.MSFC.NASA.GOV>
Received: from SSLLES.MSFC.NASA.GOV by sunspot.ssl.berkeley.edu (SMI-8.6/SMI-SVR4)
id NAA17558; Wed, 13 Sep 1995 13:56:51 -0700
From: WOODSP@SSLLES.MSFC.NASA.GOV
Date: Wed, 13 Sep 1995 15:56:47 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Message-Id: <950913155647.23e00b61@SSLLES.MSFC.NASA.GOV>
Subject: Crossing Windows for BATSE Burst 3792
Content-Type: text
Content-Length: 1135
X-Lines: 26
Status: RO

BATSEARCH PROGRAM

RI
NO - too weak

BATSE BURST # 3792
EVENT OF 1995 SEP 11 DAY OF YEAR=254
EVENT CROSSING TIME AT BATSE : 84050. S. OR 23:20:50.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 70.000 54.000
BATSE PEAK COUNTING RATE: 2000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 11/ 9/ 95 IS:
RA= 193.952 DEC= 65.562 DIST= 2.587 AU
BATSE-ULYSSES DISTANCE = 386993177. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=126.92 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -775.45 SECS.
CROSSING TIME AT ULYSSES IS 83275. S. OR 23:07:54 +/- 217.39 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 11/ 9/ 95 IS:
RA= 210.178 DEC= -12.562 DIST= 2.067 AU
MARS-BATSE DISTANCE = 309208704. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 51.93 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 635.96 SECS.
CROSSING TIME AT MARS IS 84686. S. OR 23:31:25 +/- 150.64 SECONDS

BATSE BURST TRIGGER

NO.: 3792

TIME: TJD=9971 SECONDS=84050

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=98.3 AZIMUTH=118.8 ERROR=5.8 DEGREES

COMMENTS:

GRB WITH 2 PEAKS. 1ST- @ T= -13 SEC. / DUR. ~ 5 SEC.
2ND- @ T= 0 SEC. / DUR. ~ 15 SEC. TOTAL DUR. ~ 35 SEC.
NOT VISIBLE ON CHANNEL 4.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3792	950911	9971	84050	2000	070	+54	35

ULYSSES RT

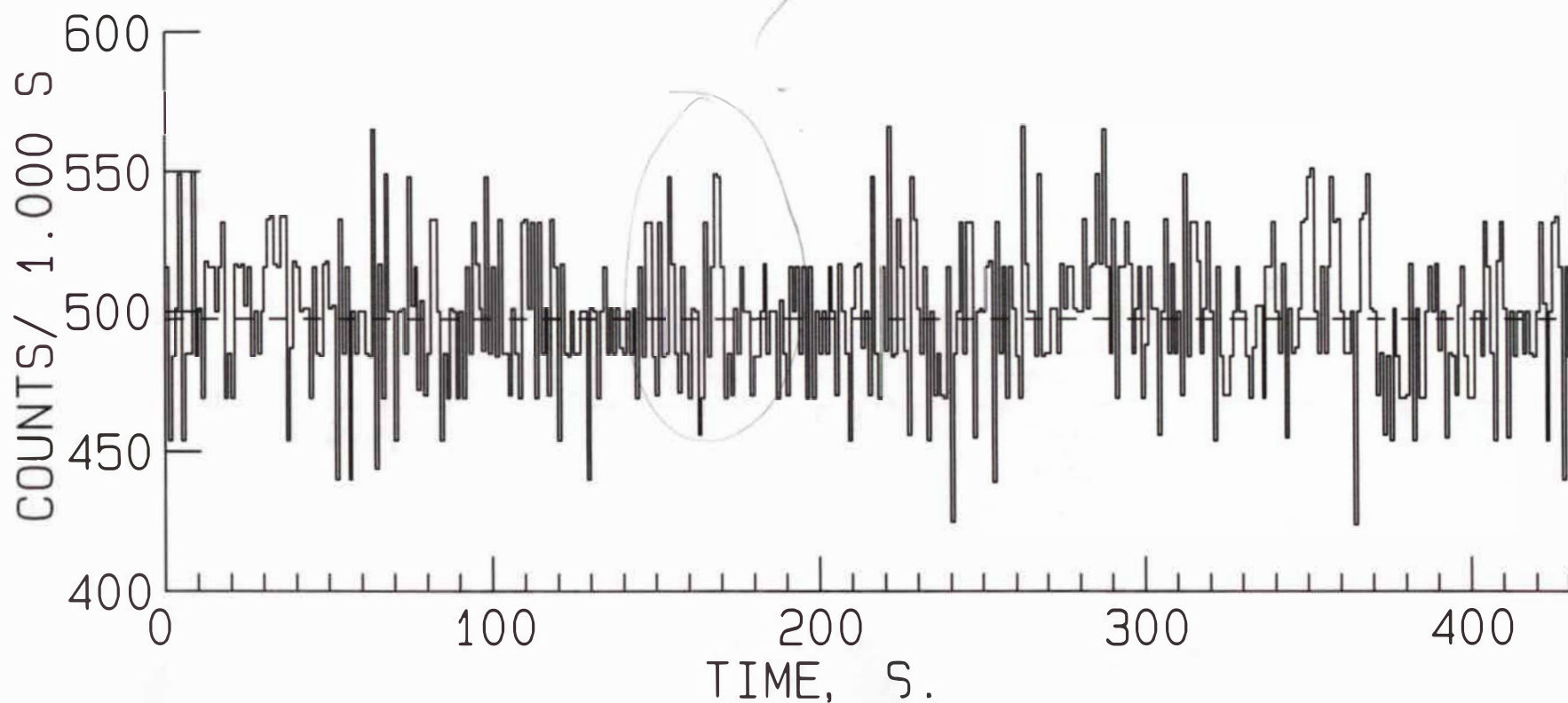
18/10/95

11/ 9/95 83052.024 s

0.250 S INTERVALS REGROUPED BY 4

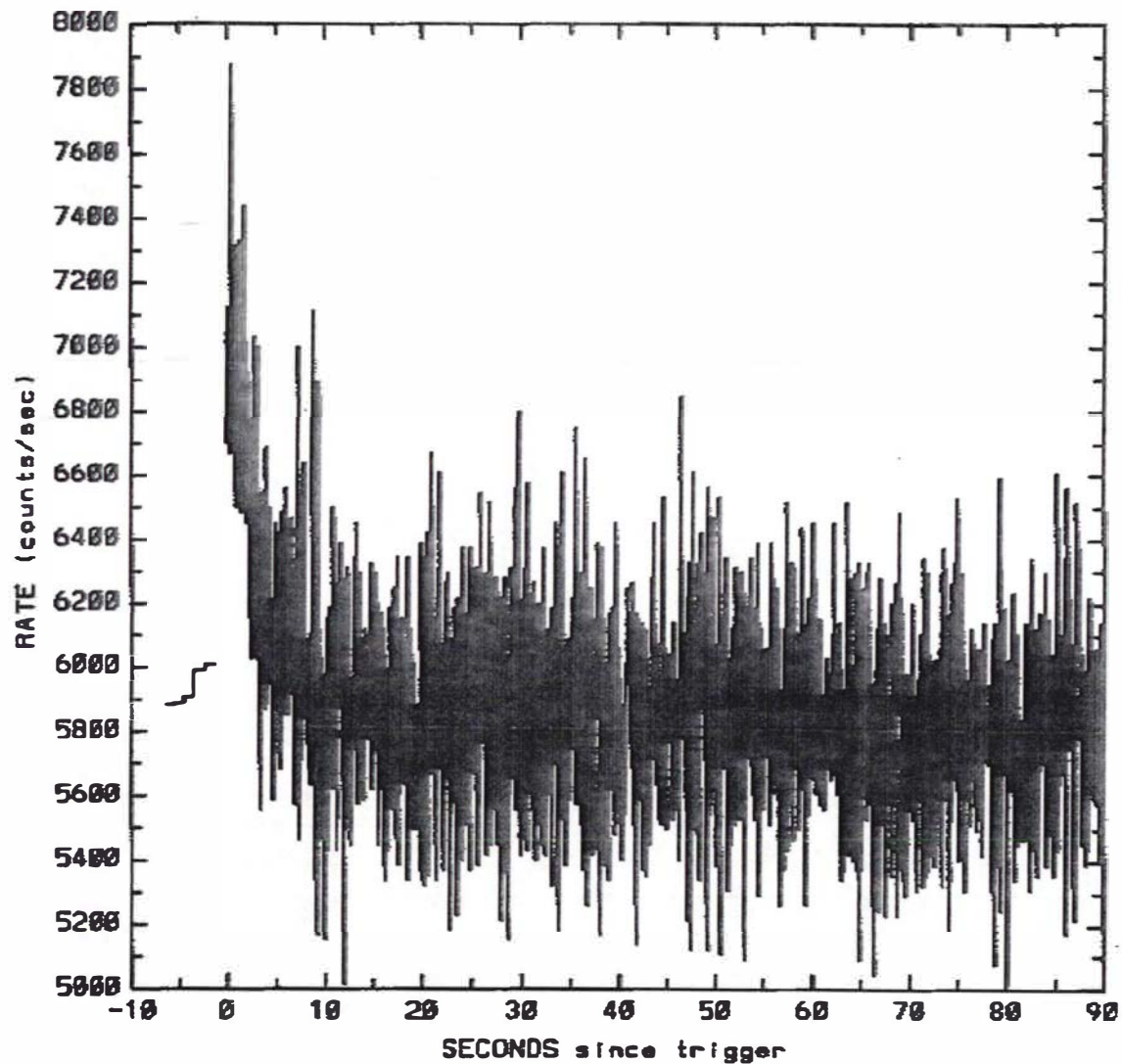
21- 145 keV

N= 10 M= 1
>3.0 SIGMA FLUCTUATIONS



Sep 11 B

DISCSC Data for K. Hurley, No. 3792



22-SEP-1995 18.05.01

Created by MDPS 80
(Burst Display)
Version t2.25

Trigger # : 3792

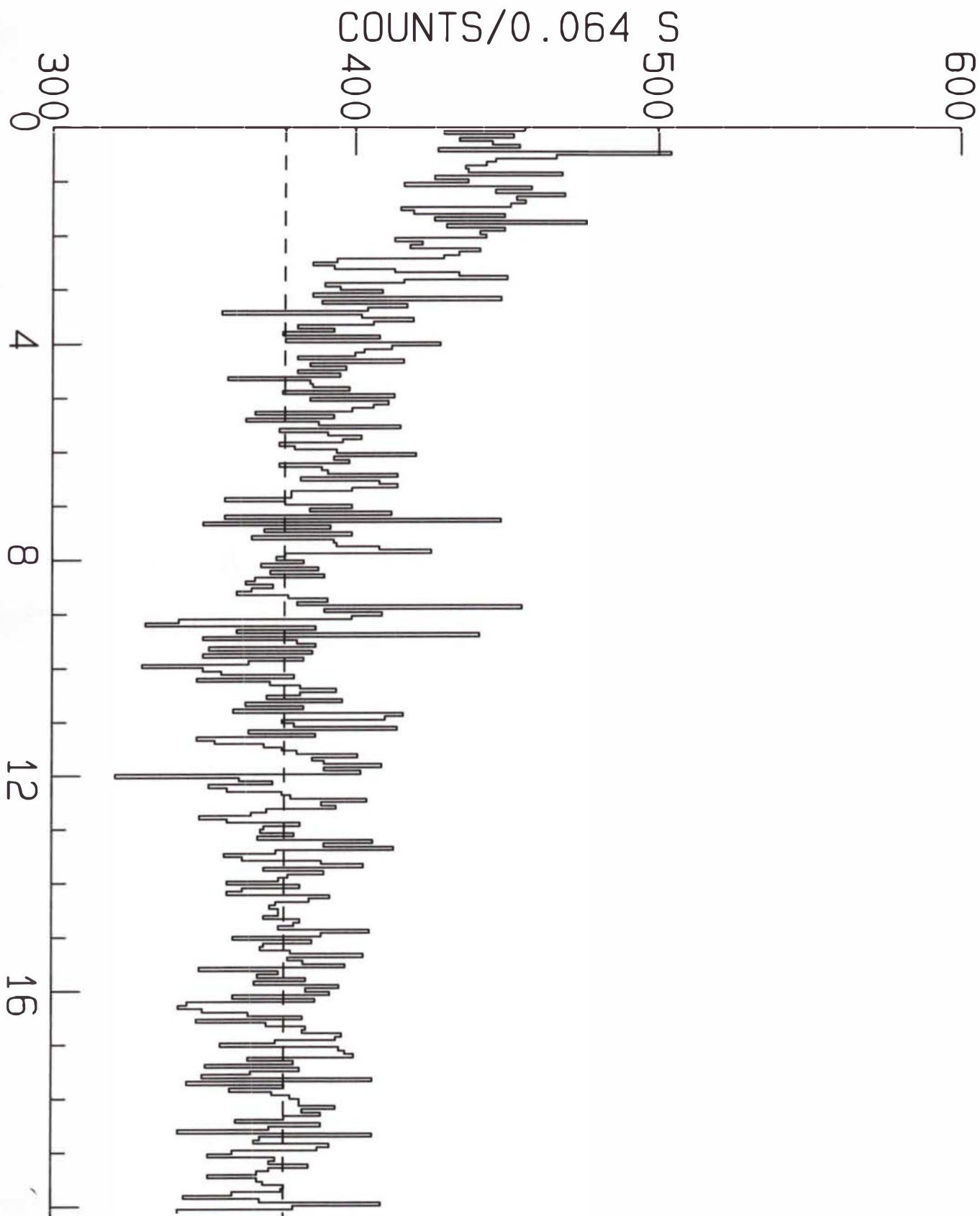
Trigger Time:
9971 / 84050.866Burst Data Type:
DISCSCDeadtime
Corrected: NBackground Data
Type: PRED + DISCLAMinimum Integ. Time:
0.064 secondsDetectors [7..8].
--54----Discriminators:
(1 . 2)Quality Mask:
BOTSP1

BATSE

11/09/95

84050.866

25- 100 keV



7/10/95

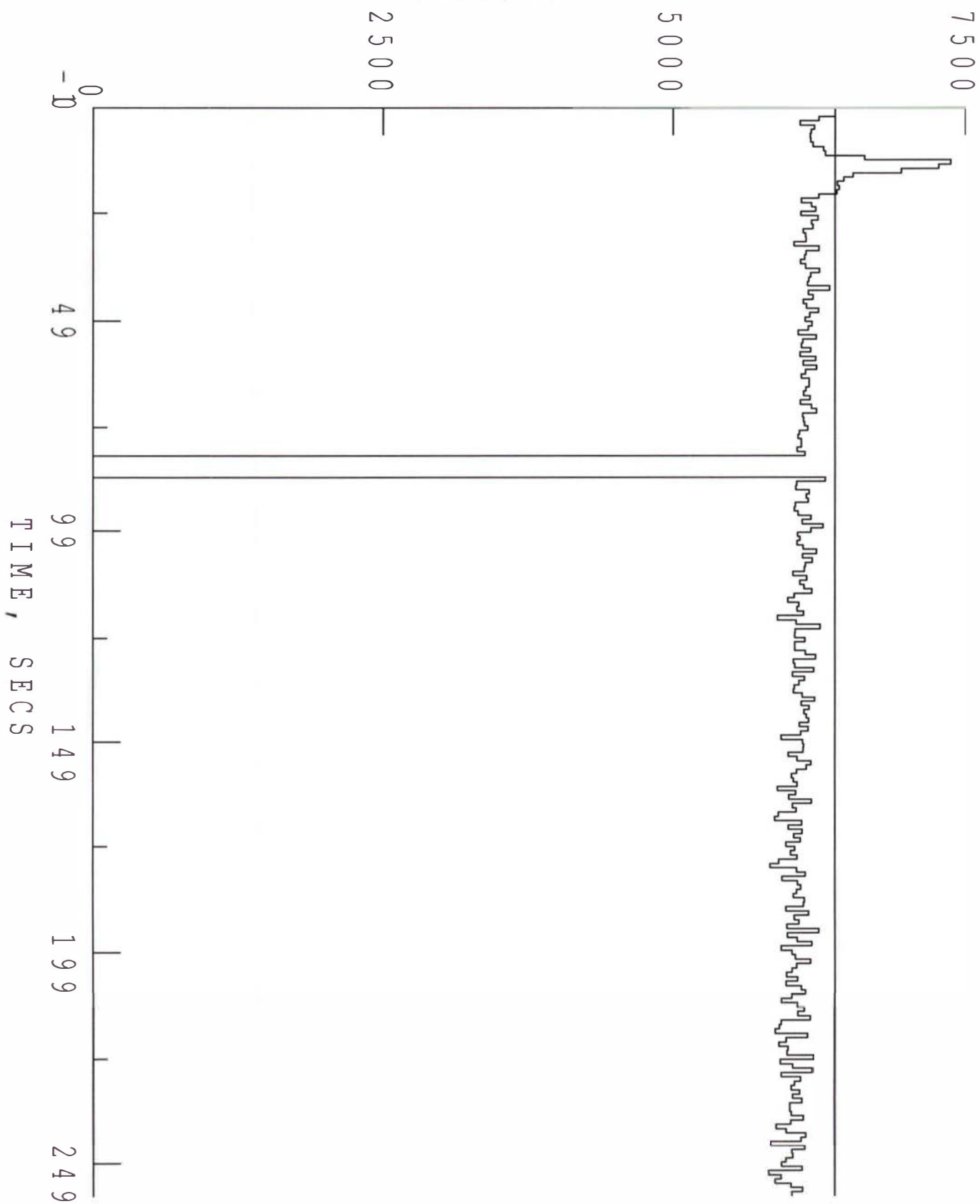
BACODINE

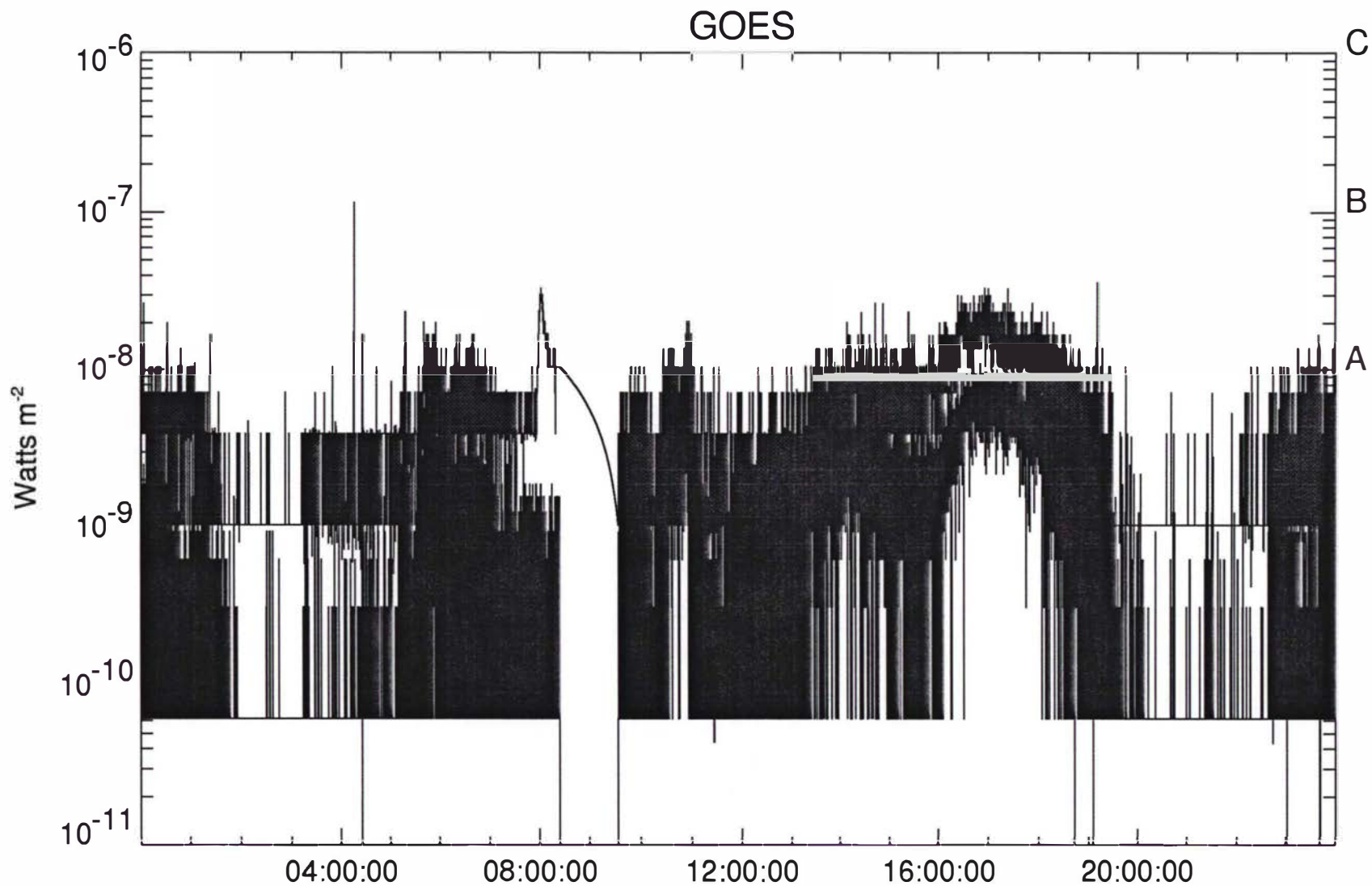
11/09/95

84039.345

25 - 100 keV

COUNTS/1.024 S





Data Start: 95/09/11, 0000:00

Plot created: 95/09/13, 0528

Channel

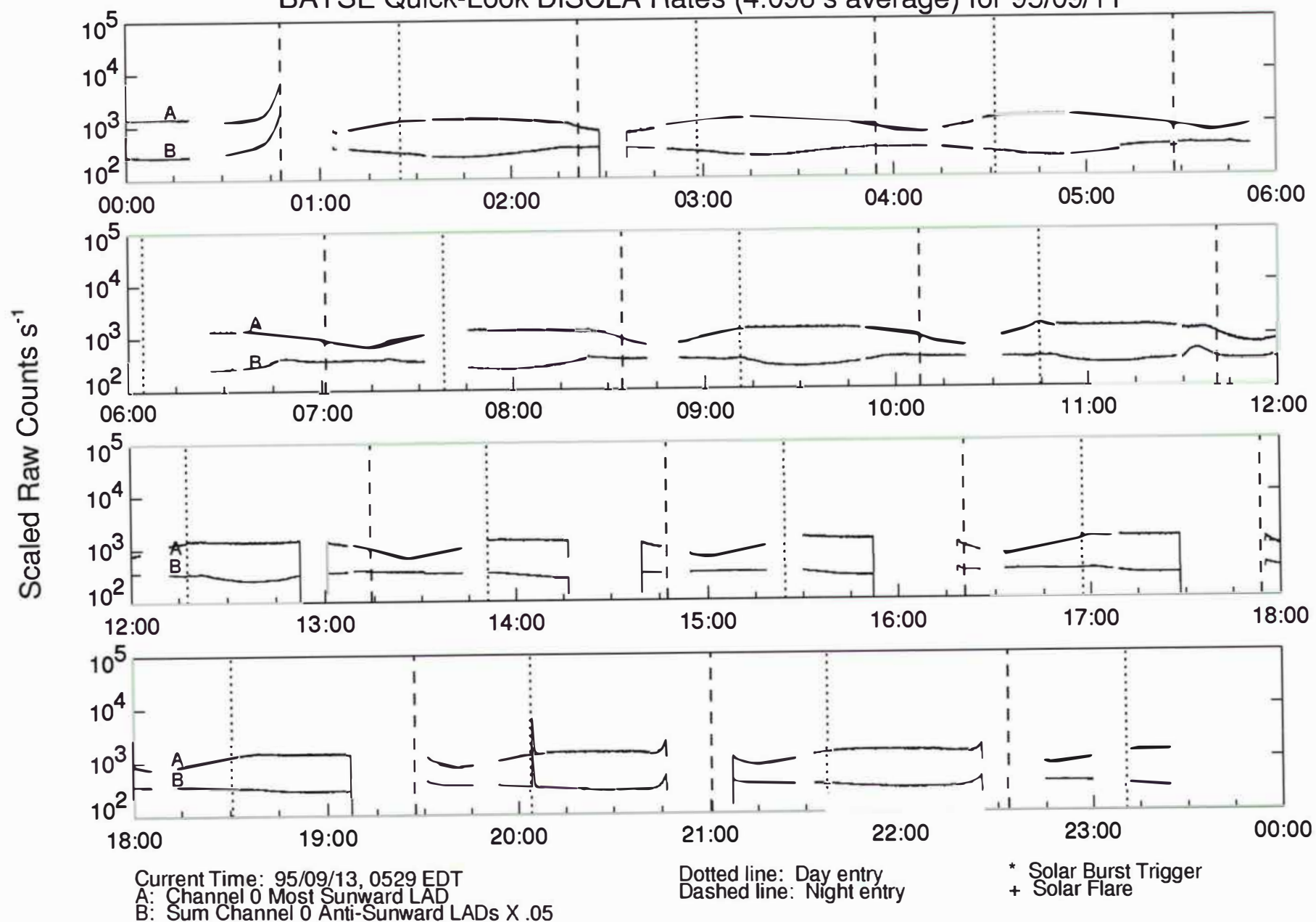
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

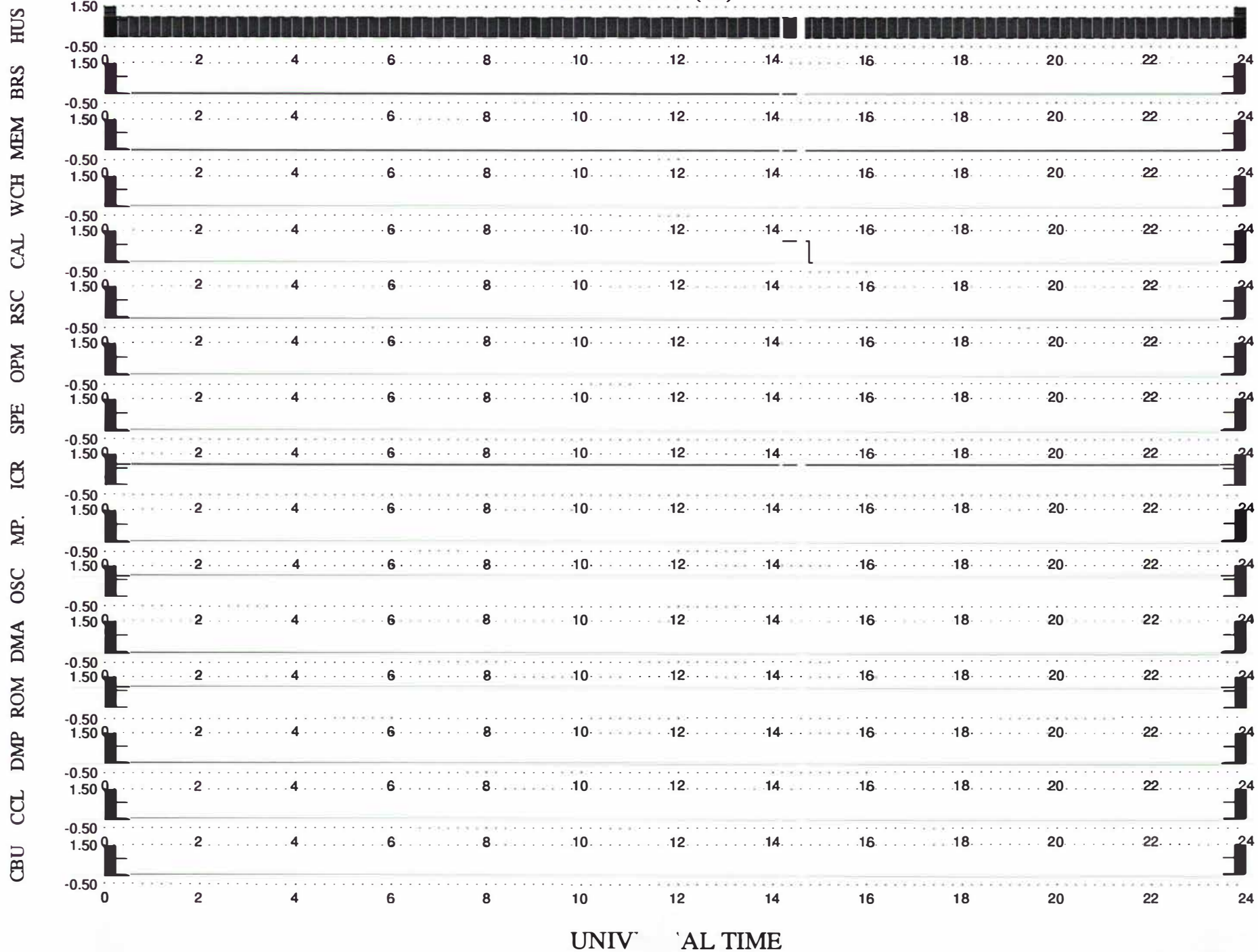
Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/11



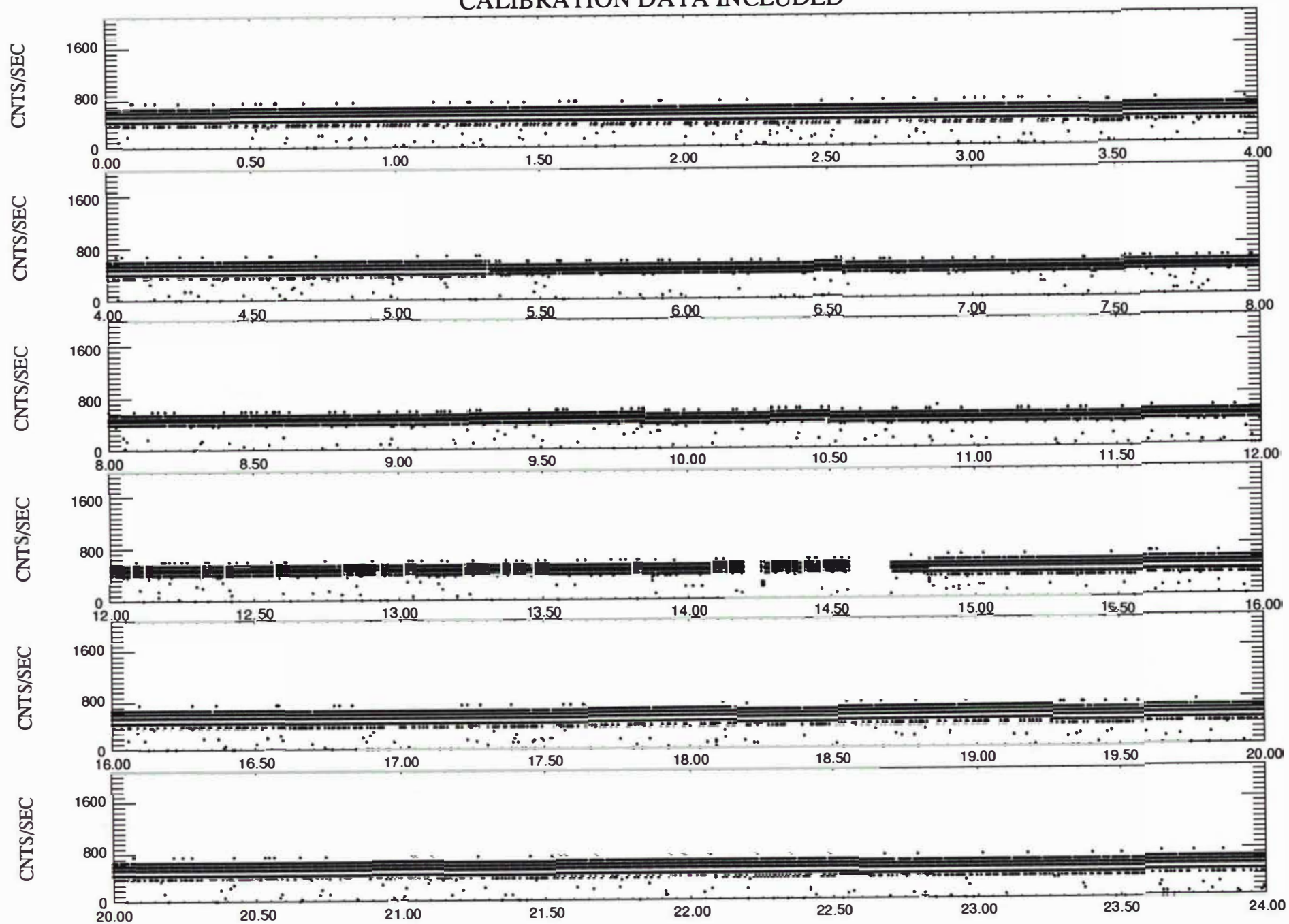
HUS MODES EDR day 254, year 1995 to day 254, year 1995
NO BURST (15)

1/25/96

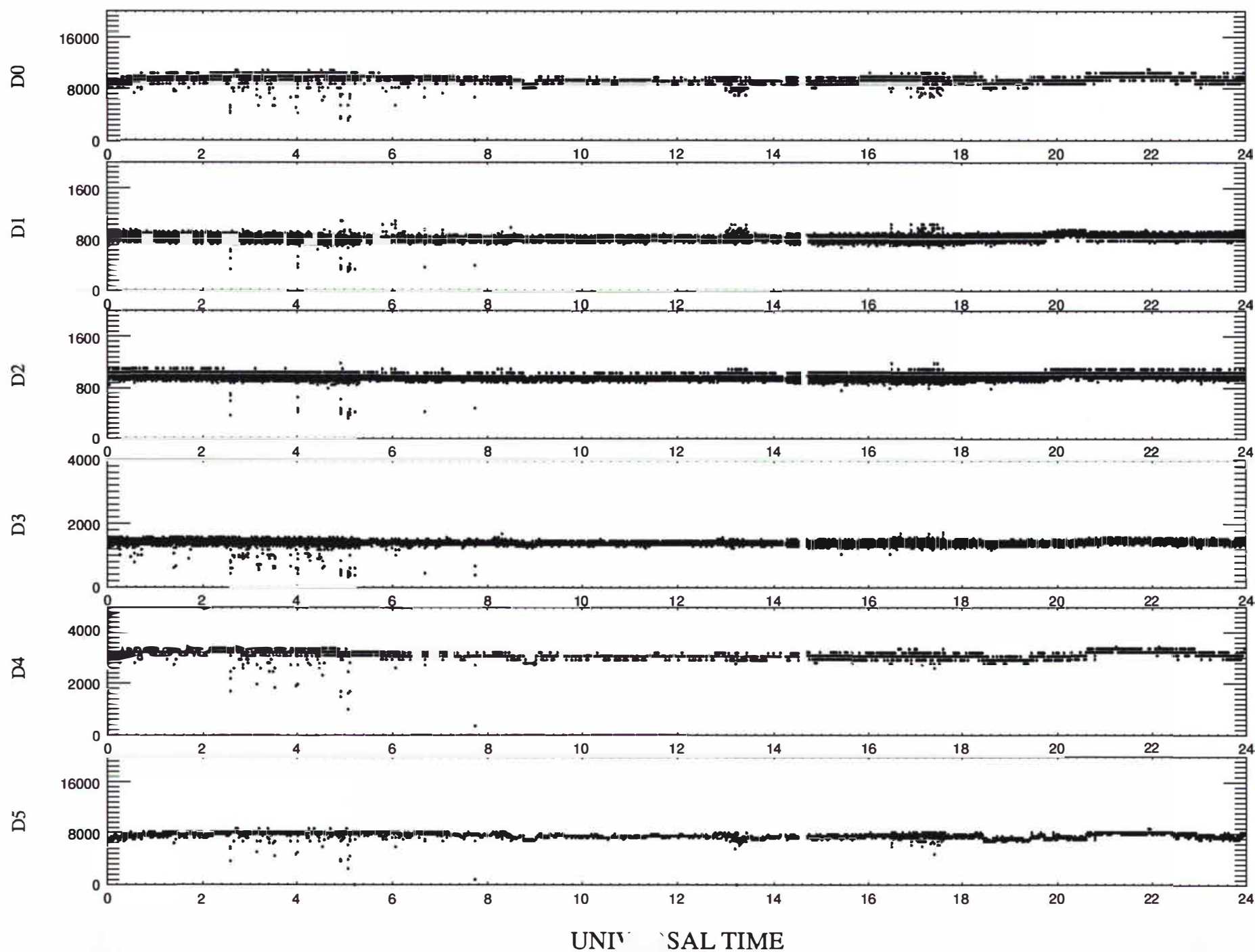


HUS 2A, MODE 1, NOT AVERAGED EDR day 254, year 1995 to day 254, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



From WOODSP@SSLLES.MSFC.NASA.GOV Thu Sep 14 11:11 PDT 1995
From: WOODSP@SSLLES.MSFC.NASA.GOV
Date: Thu, 14 Sep 1995 13:10:39 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3793

TIME: TJD=9972 SECONDS=41702

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

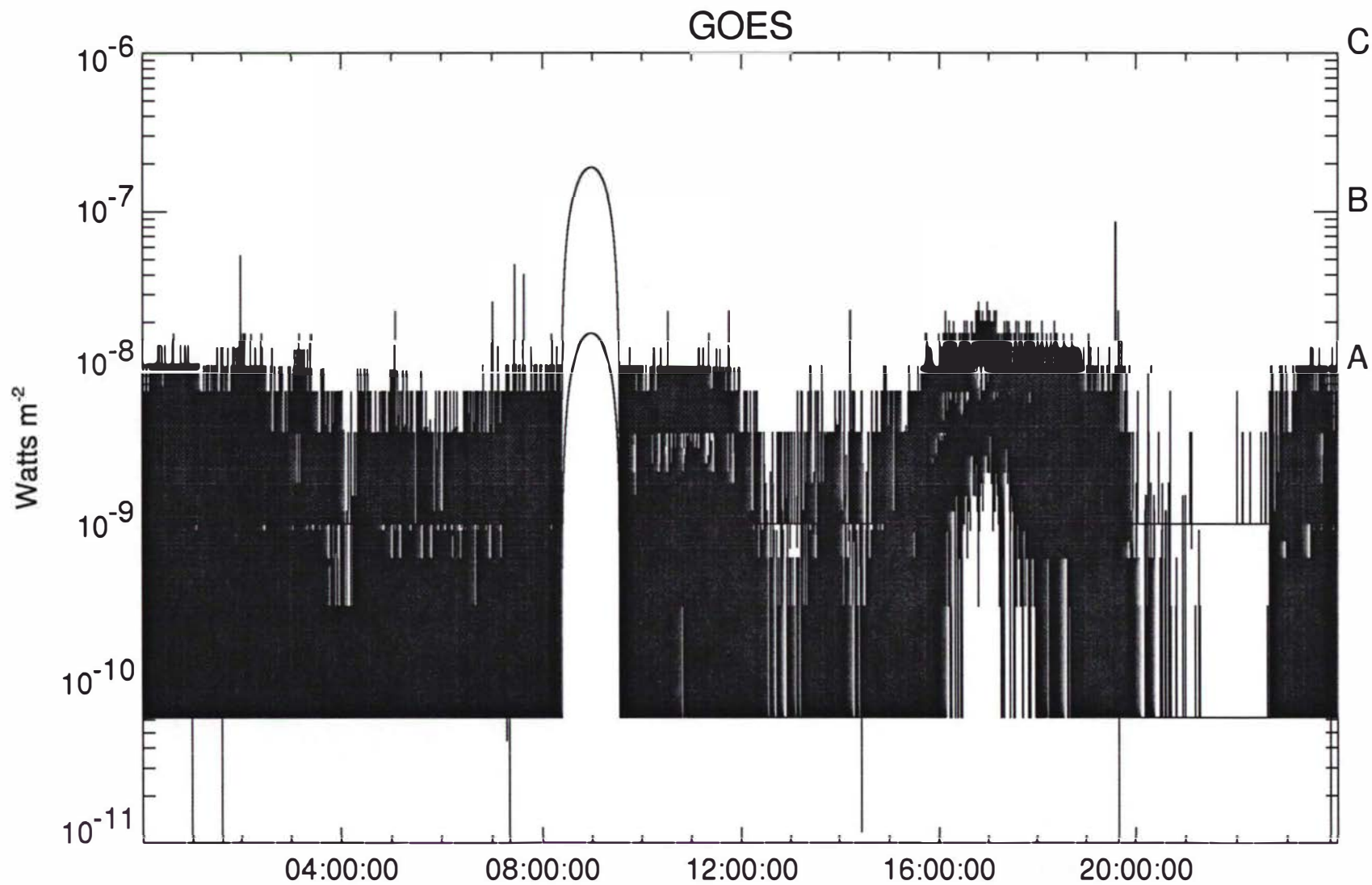
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

ZENITH IS DEGREES FROM +Z AXIS, AZIMUTH IS DEGREES CCW FROM +X,
ERROR IS 3 SIGMA ERROR CIRCLE RADIUS.



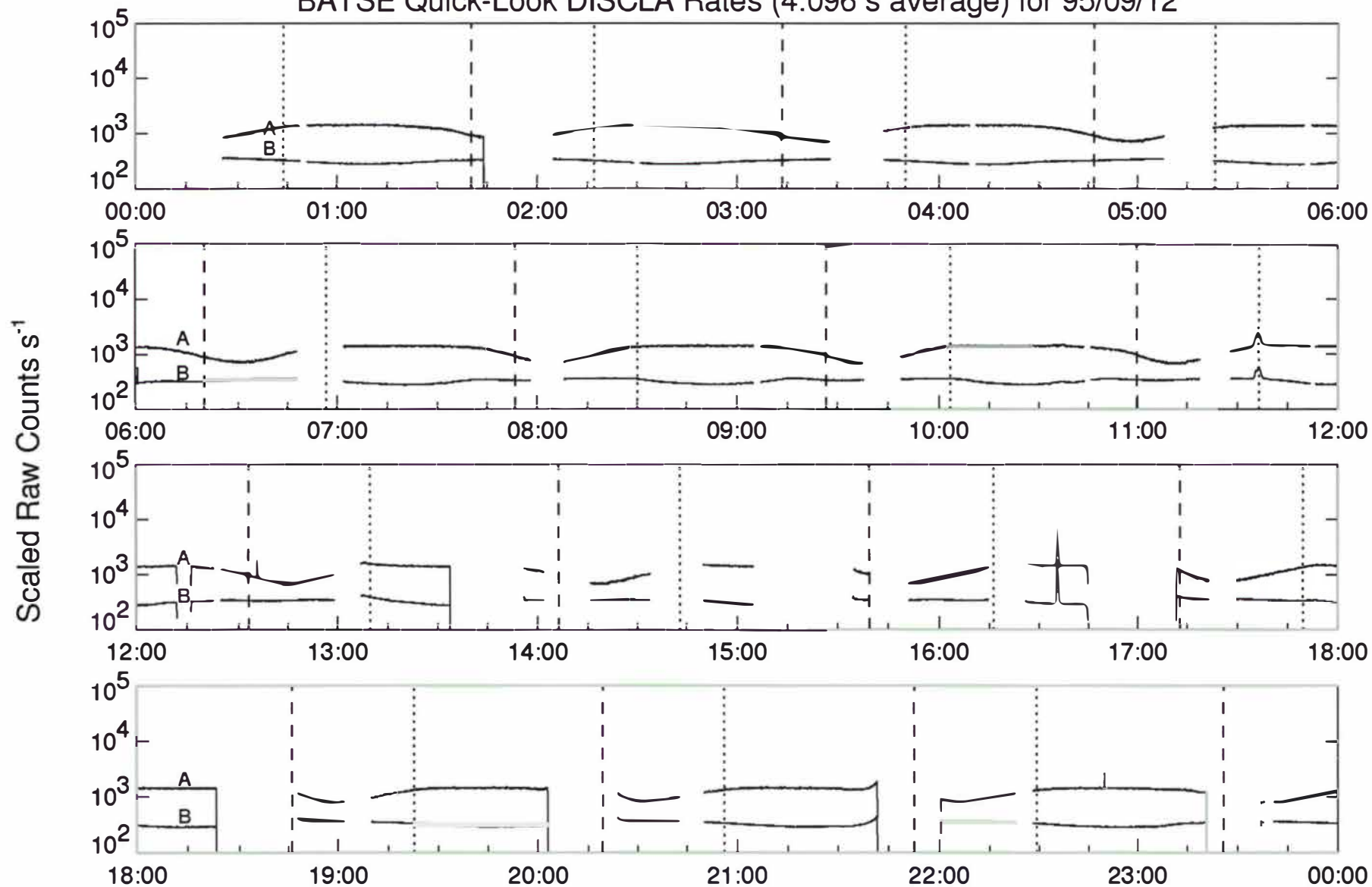
Data Start: 95/09/12, 0000:01

Plot created: 95/09/14, 0529

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/12



Current Time: 95/09/14, 0529 EDT

A: Channel 0 Most Sunward LAD

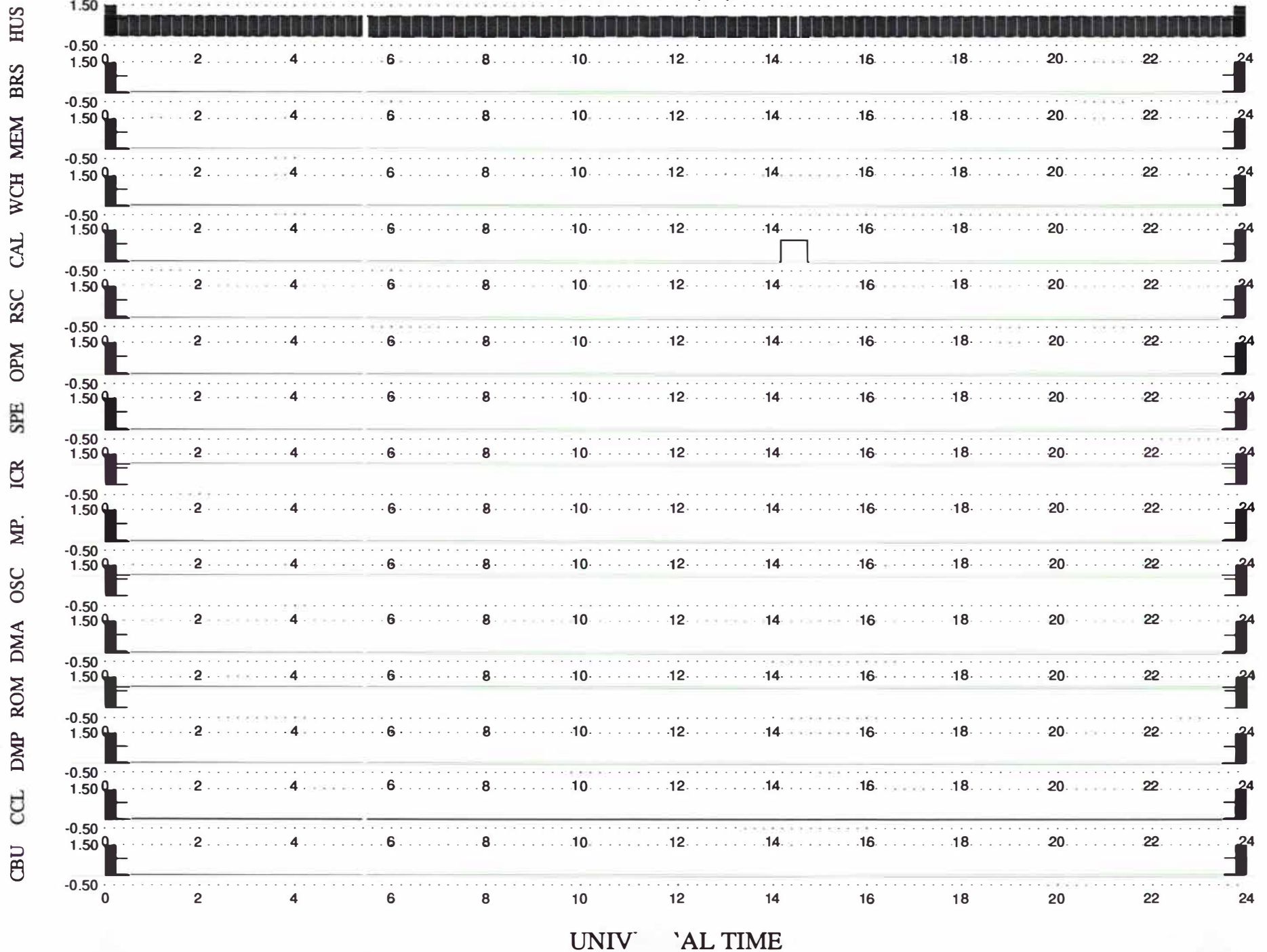
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

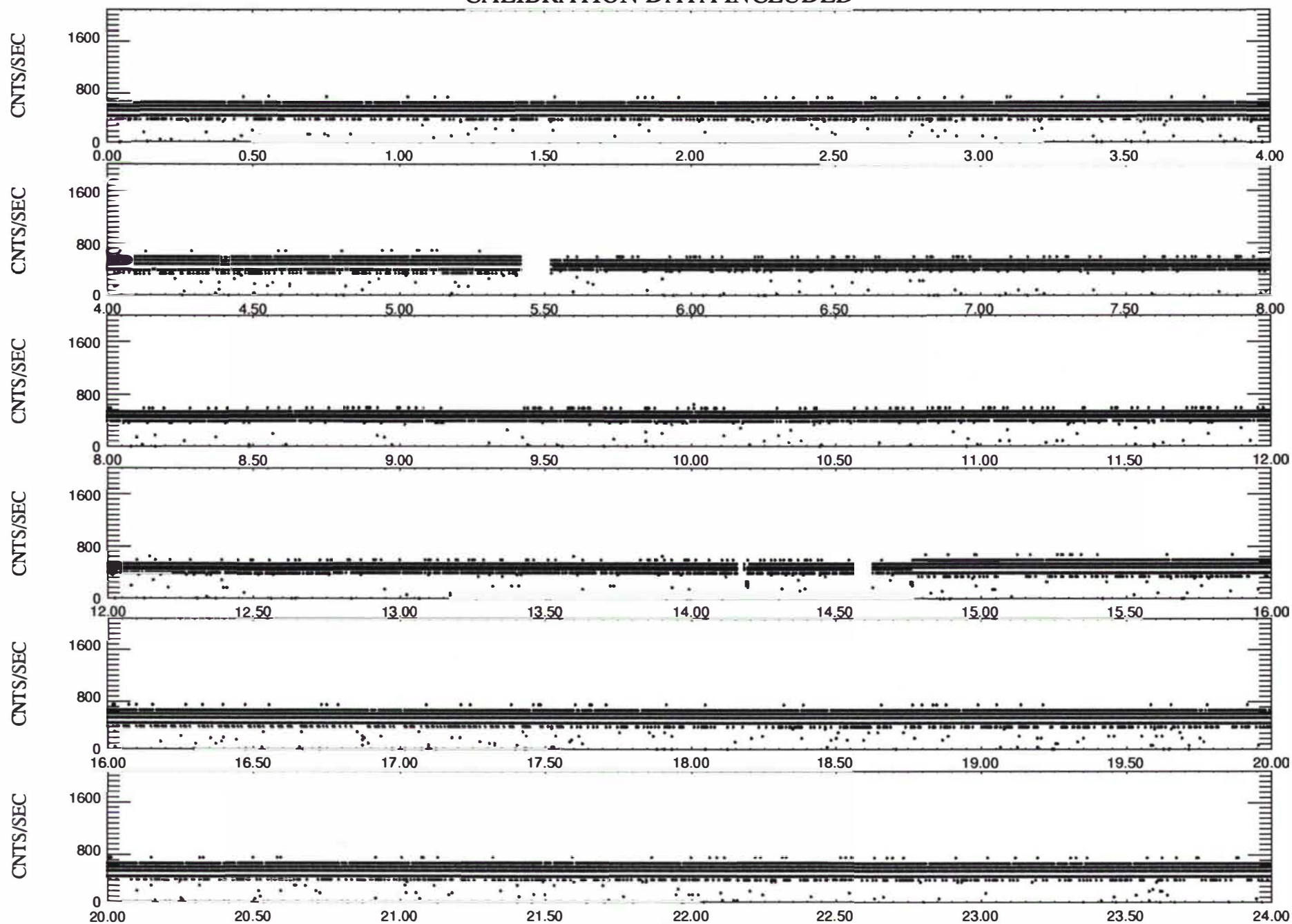
HUS MODES EDR day 255, year 1995 to day 255, year 1995
NO BURST (15)

1/25/96

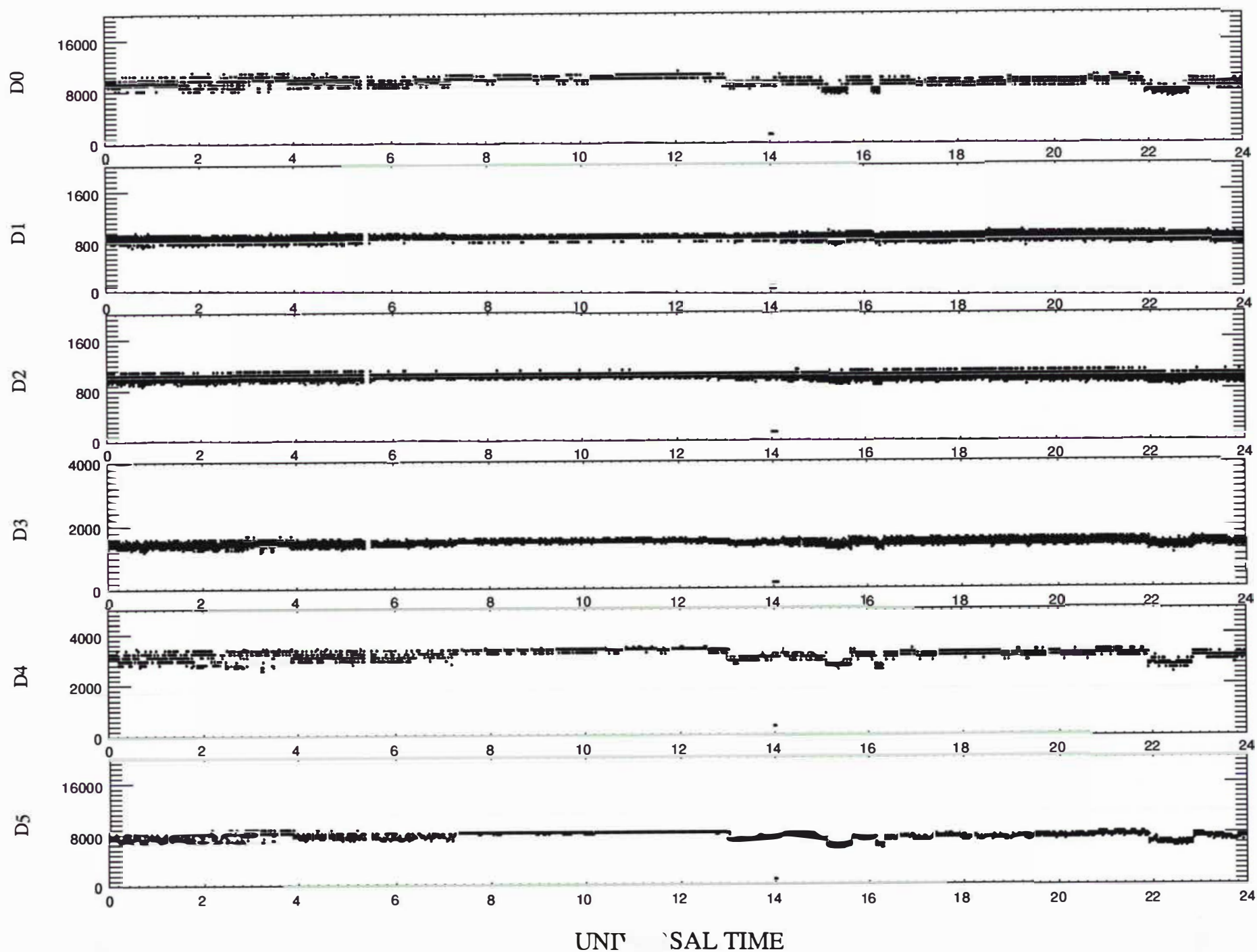


HUS 2A, MODE 1, NOT AVERAGED EDR day 255, year 1995 to day 255, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From WOODSP@SSLLES.MSFC.NASA.GOV Thu Sep 14 11:14 PDT 1995
From: WOODSP@SSLLES.MSFC.NASA.GOV
Date: Thu, 14 Sep 1995 13:13:40 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3794

TIME: TJD=9973 SECONDS=30471

TYPE: CYG X-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

ZENITH IS DEGREES FROM +Z AXIS, AZIMUTH IS DEGREES CCW FROM +X,
ERROR IS 3 SIGMA ERROR CIRCLE RADIUS.

From WOODSP@ssl.msfc.nasa.gov Thu Sep 14 11:15 PDT 1995
Date: Thu, 14 Sep 1995 13:15:13 -0500 (CDT)
From: WOODSP@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3795

TIME: TJD=9973 SECONDS=36071

TYPE: CYG X-1 SOLAR FLARE TRIGGER SIGNAL:

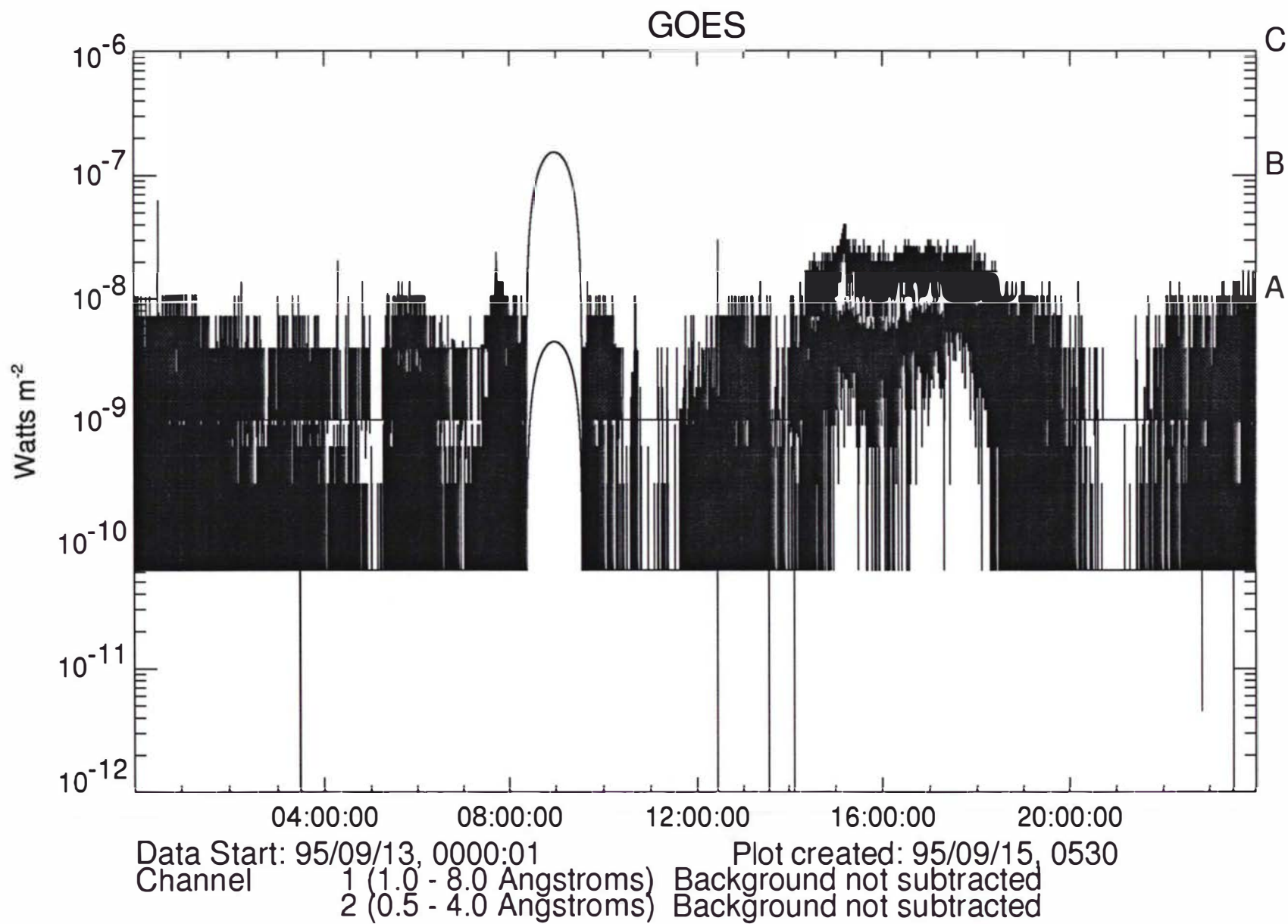
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

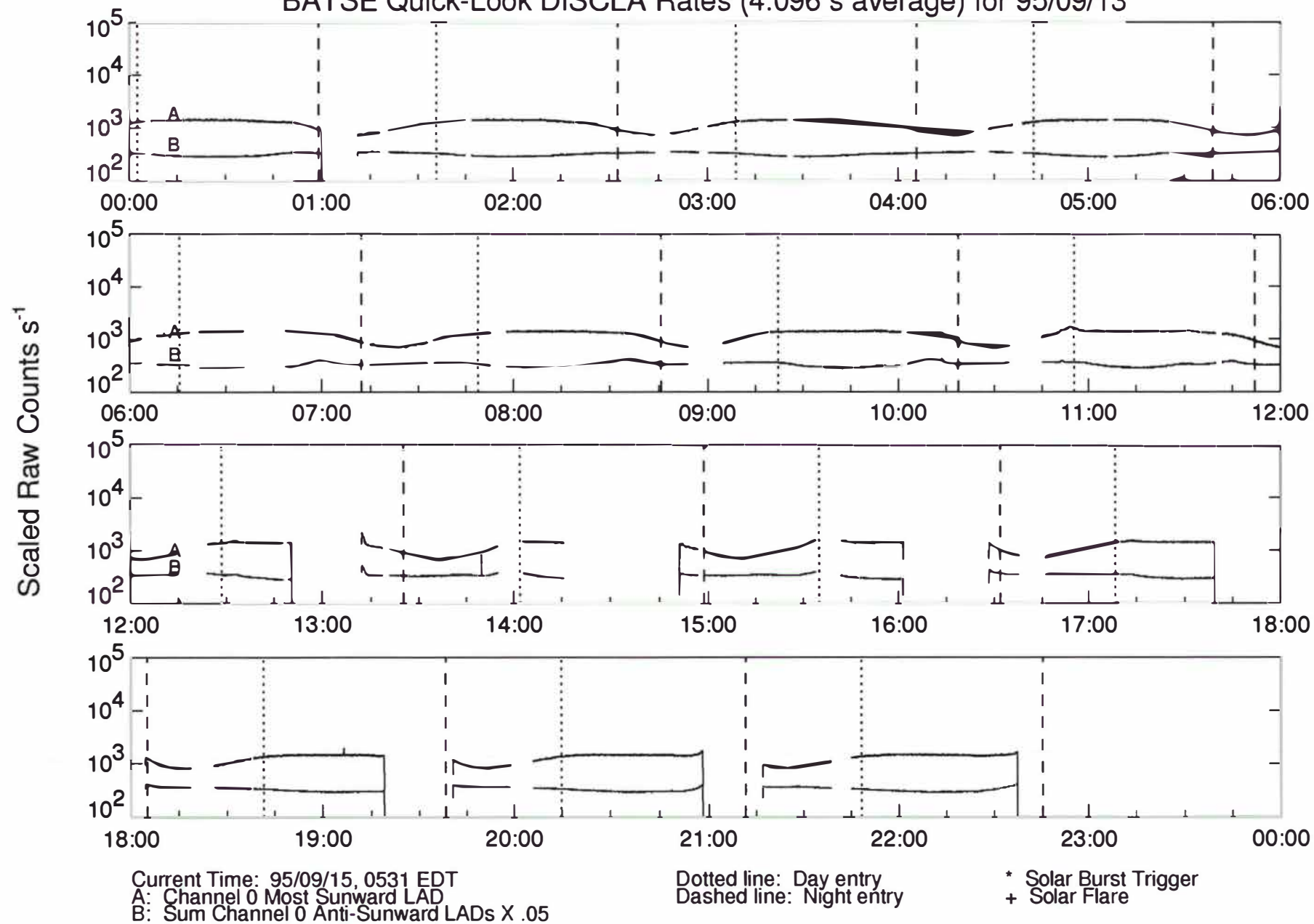
LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

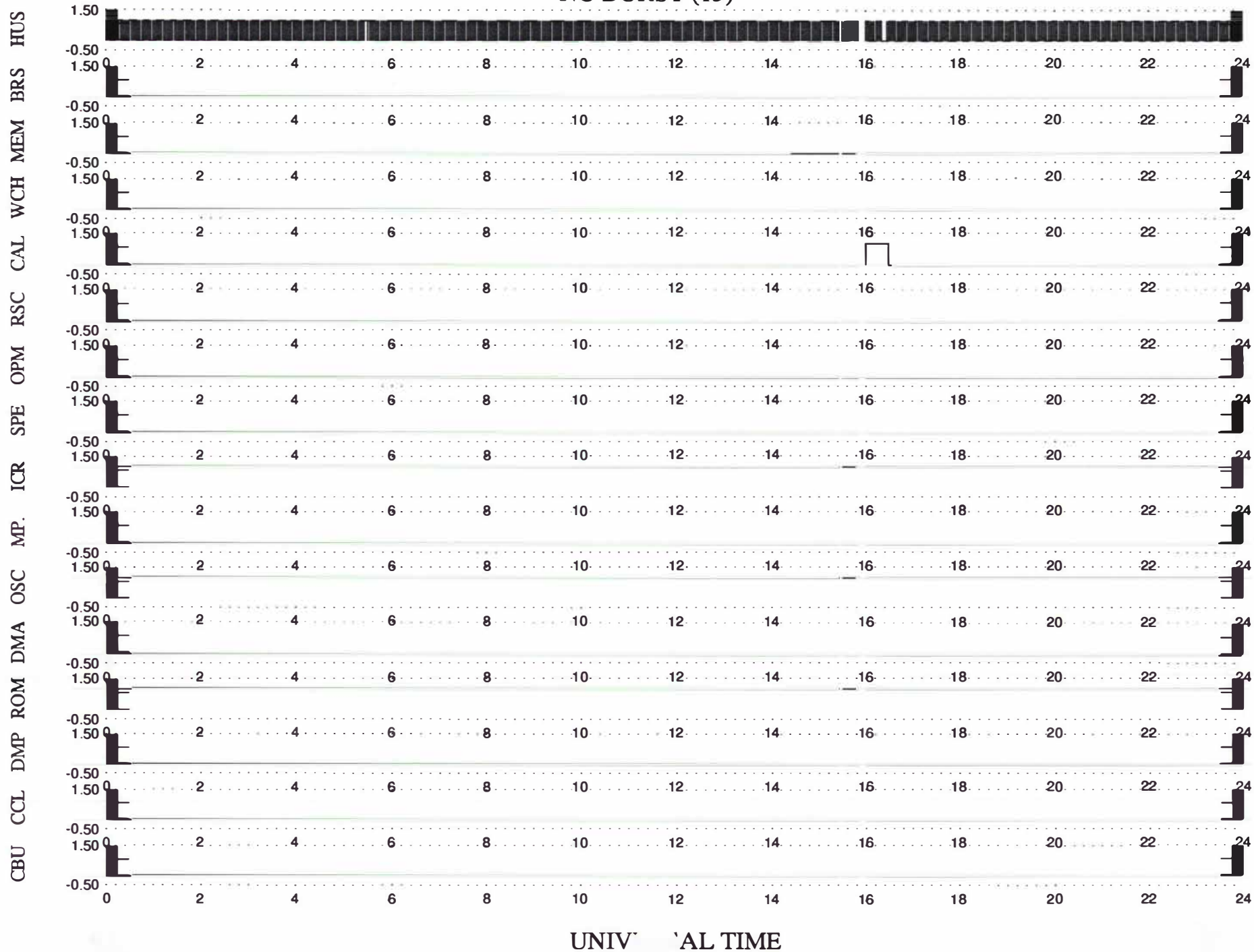
ZENITH IS DEGREES FROM +Z AXIS, AZIMUTH IS DEGREES CCW FROM +X,
ERROR IS 3 SIGMA ERROR CIRCLE RADIUS.



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/13

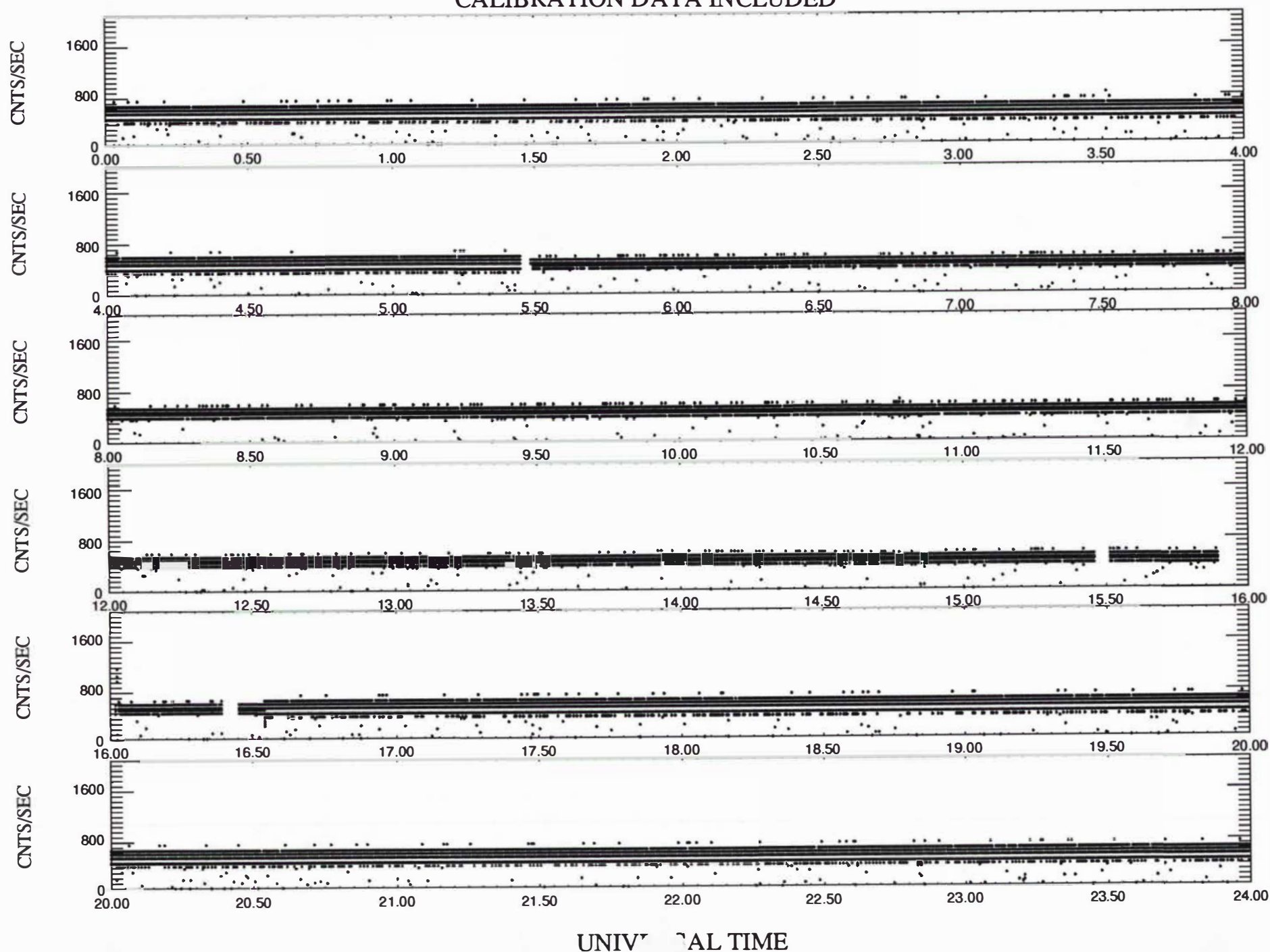


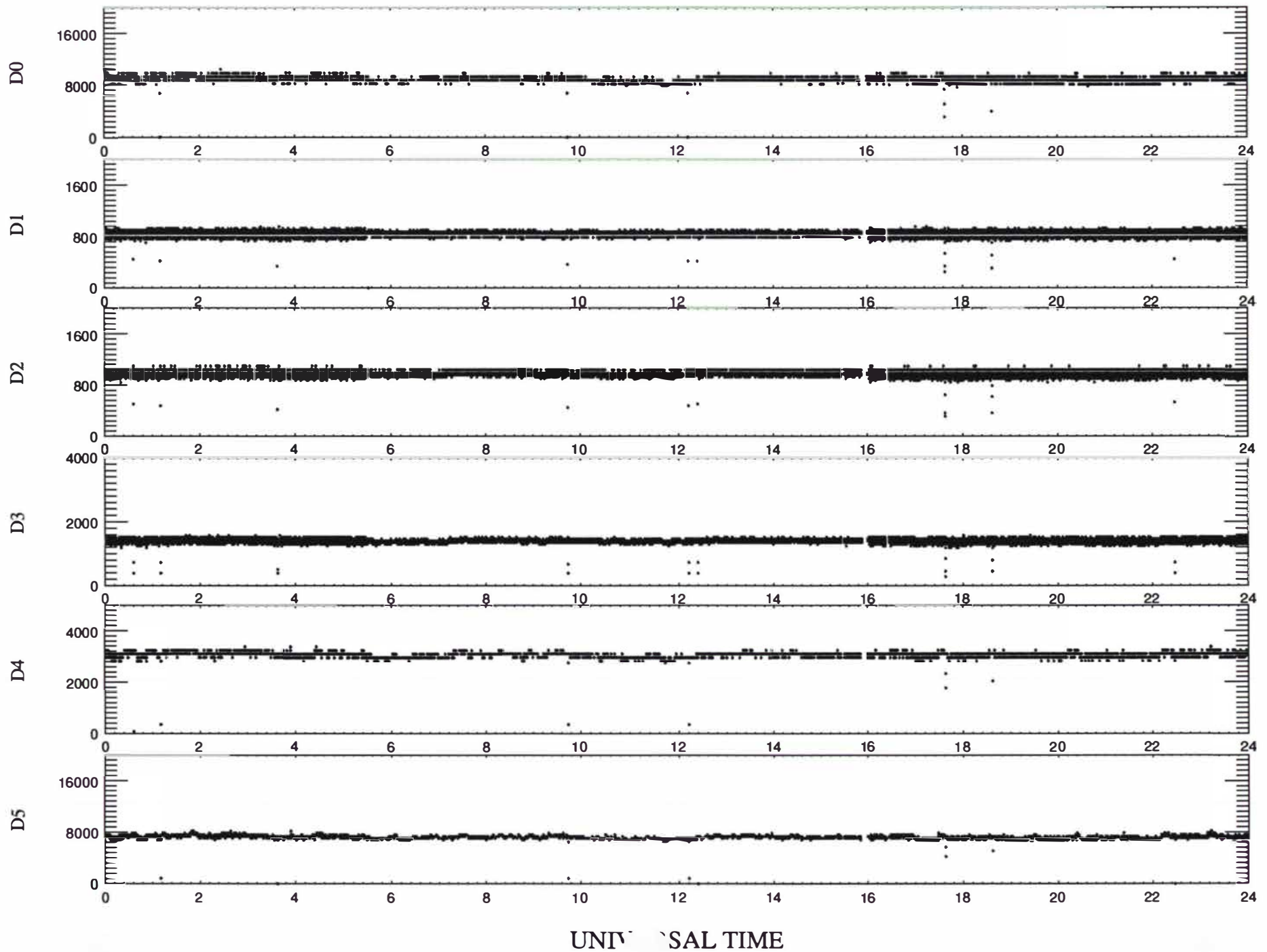
1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 256, year 1995 to day 256, year 1995
CALIBRATION DATA INCLUDED

1/25/96





From DEAL@SSLLES.MSFC.NASA.GOV Tue Sep 19 11:30 PDT 1995
From: DEAL@SSLLES.MSFC.NASA.GOV
Date: Tue, 19 Sep 1995 13:29:58 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3796

BATSEARCH PROGRAM

BATSE BURST # 3796
EVENT OF 1995 SEP 14 DAY OF YEAR=257
EVENT CROSSING TIME AT BATSE : 7675. S. OR 02:07:55.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 46.000 -51.000
BATSE PEAK COUNTING RATE: 1200 C/S

NO

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 14/ 9/ 95 IS:
RA= 194.959 DEC= 64.899 DIST= 2.602 AU
BATSE-ULYSSES DISTANCE = 389313343. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 21.17 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 1210.94 SECS.
CROSSING TIME AT ULYSSES IS 8886. S. OR 02:28:05 +/- 149.82 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 14/ 9/ 95 IS:
RA= 212.097 DEC= -13.276 DIST= 2.079 AU
MARS-BATSE DISTANCE = 311082368. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 65.41 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 431.77 SECS.
CROSSING TIME AT MARS IS 8107. S. OR 02:15:06 +/- 170.37 SECONDS

BATSE BURST TRIGGER

NO.: 3796

TIME: TJD=9974 SECONDS=7675

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=27.0 AZIMUTH=6.8 ERROR=5.6 DEGREES

COMMENTS:

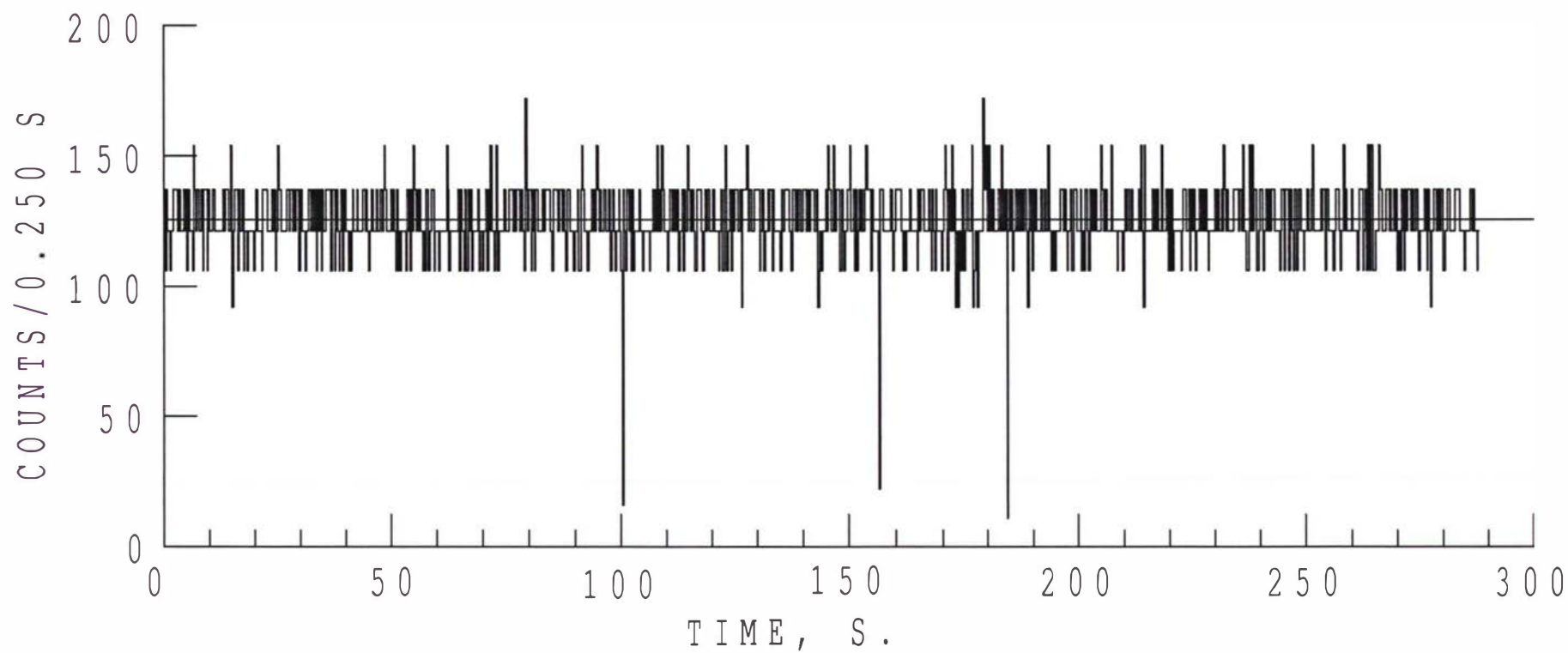
BURST LASTING ~ 50 S. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3796	950914	9974	07675	1200	046	-51	50

25 / 9 / 95

ULYSSES RT
14 / 9 / 95 8748.214 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From DEAL@ssl.msfc.nasa.gov Mon Sep 18 10:19 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Mon, 18 Sep 1995 12:19:28 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3797

BATSEARCH PROGRAM

No

BATSE BURST # 3797
EVENT OF 1995 SEP 14 DAY OF YEAR=257
EVENT CROSSING TIME AT BATSE : 14460. S. OR 04:01:00.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 299.000 77.000
BATSE PEAK COUNTING RATE: 1700 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 14/ 9/ 95 IS:
RA= 194.997 DEC= 64.874 DIST= 2.603 AU
BATSE-ULYSSES DISTANCE = 389400336. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=149.21 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1115.83 SECS.
CROSSING TIME AT ULYSSES IS 13344. S. OR 03:42:24 +/- 148.49 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 14/ 9/ 95 IS:
RA= 212.097 DEC= -13.276 DIST= 2.079 AU
MARS-BATSE DISTANCE = 311082368. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 77.77 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 219.90 SECS.
CROSSING TIME AT MARS IS 14680. S. OR 04:04:39 +/- 179.40 SECONDS

BATSE BURST TRIGGER

NO.: 3797

TIME: TJD=9974 SECONDS=14460

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=120.1 AZIMUTH=161.1 ERROR=9.7 DEGREES

COMMENTS:

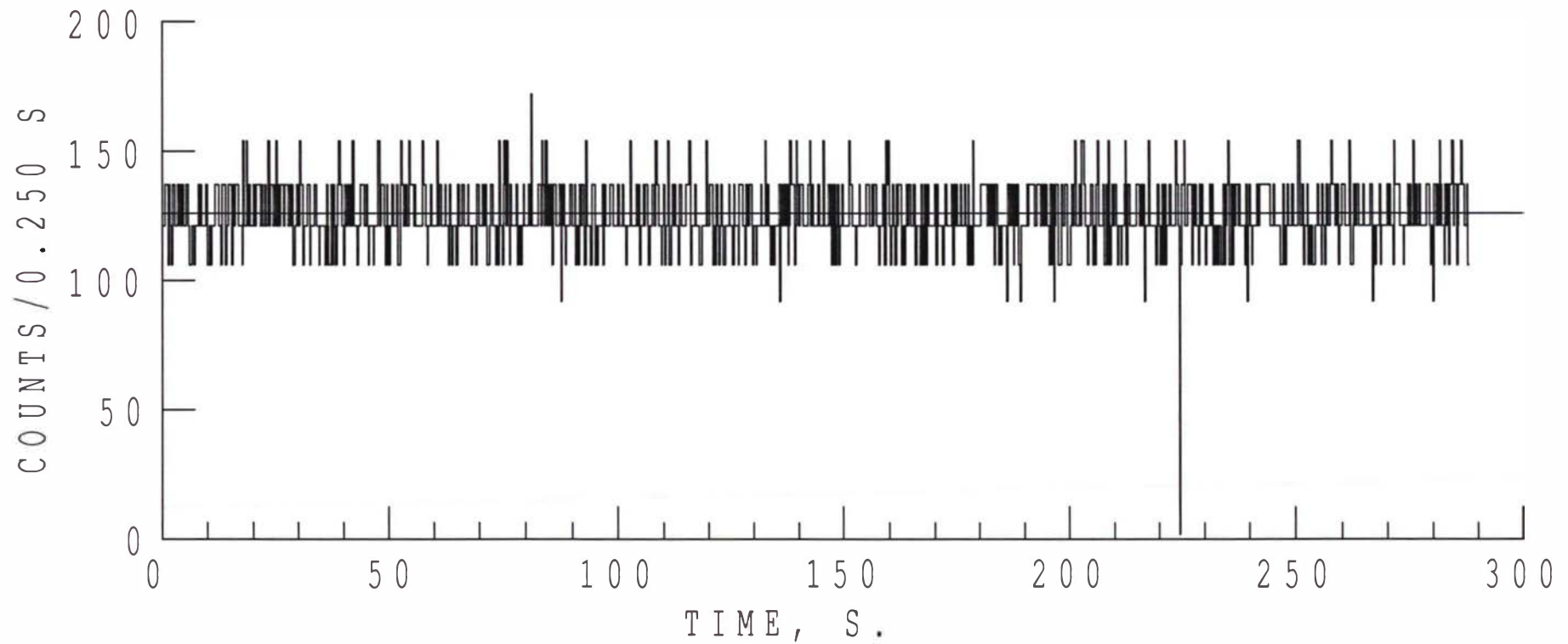
BURST WITH DURATION > 0.5S. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3797	950914	9974	14460	1700	299	+77	2

25 / 9 / 95

ULYSSES RT
14 / 9 / 95 13212.039 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From DEAL@SSLLES.MSFC.NASA.GOV Fri Sep 15 12:20 PDT 1995
From: DEAL@SSLLES.MSFC.NASA.GOV
Date: Fri, 15 Sep 1995 14:19:39 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3798

TIME: TJD=9974 SECONDS=42345

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

Date: Aug 31 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

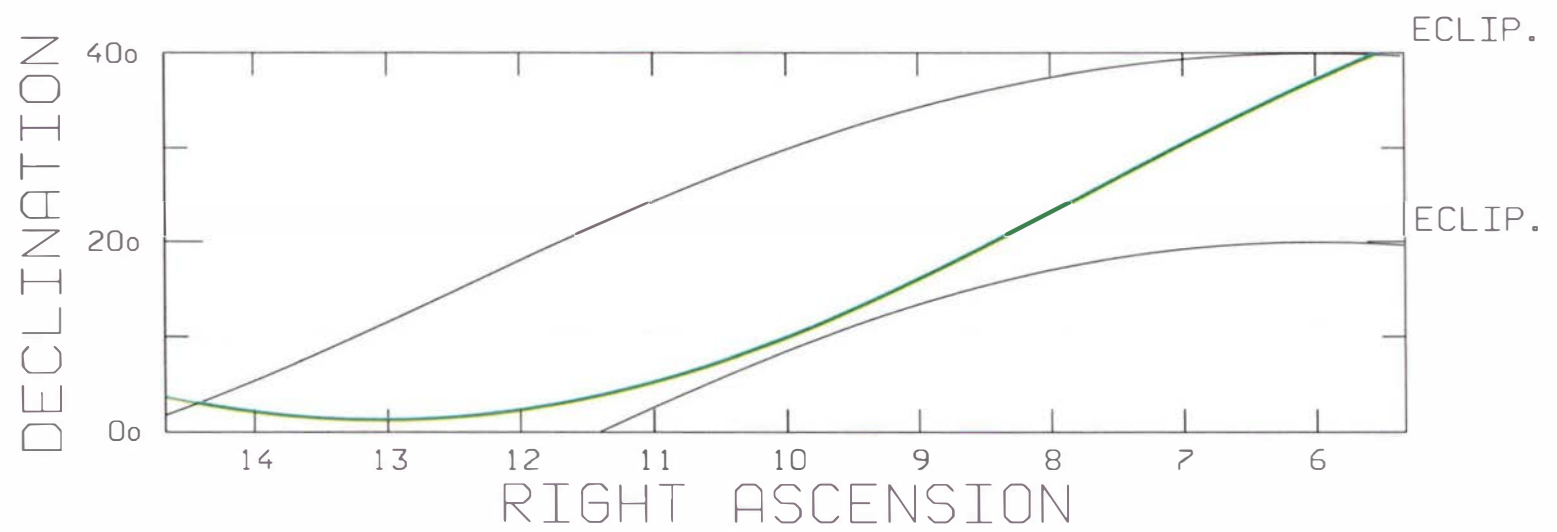
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is done on the data with the best time resolution?

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)?
- ☐ BATSE ephemeris for T_0 ?
- ☐ Error circle position and radius from public catalog used?
- ☐ If MER data were used, is a 30 ms systematic error included?

3. PVO Data

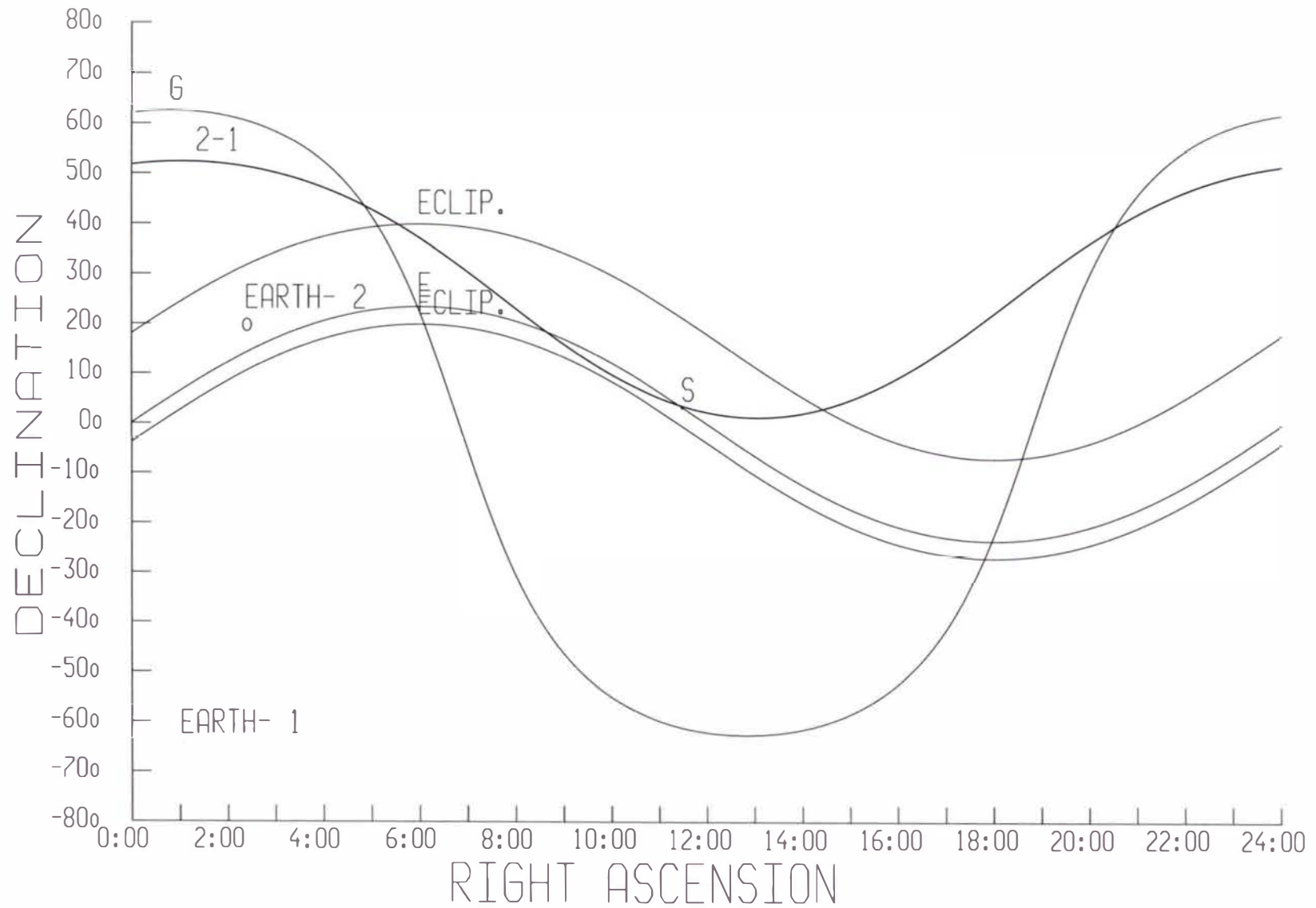
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

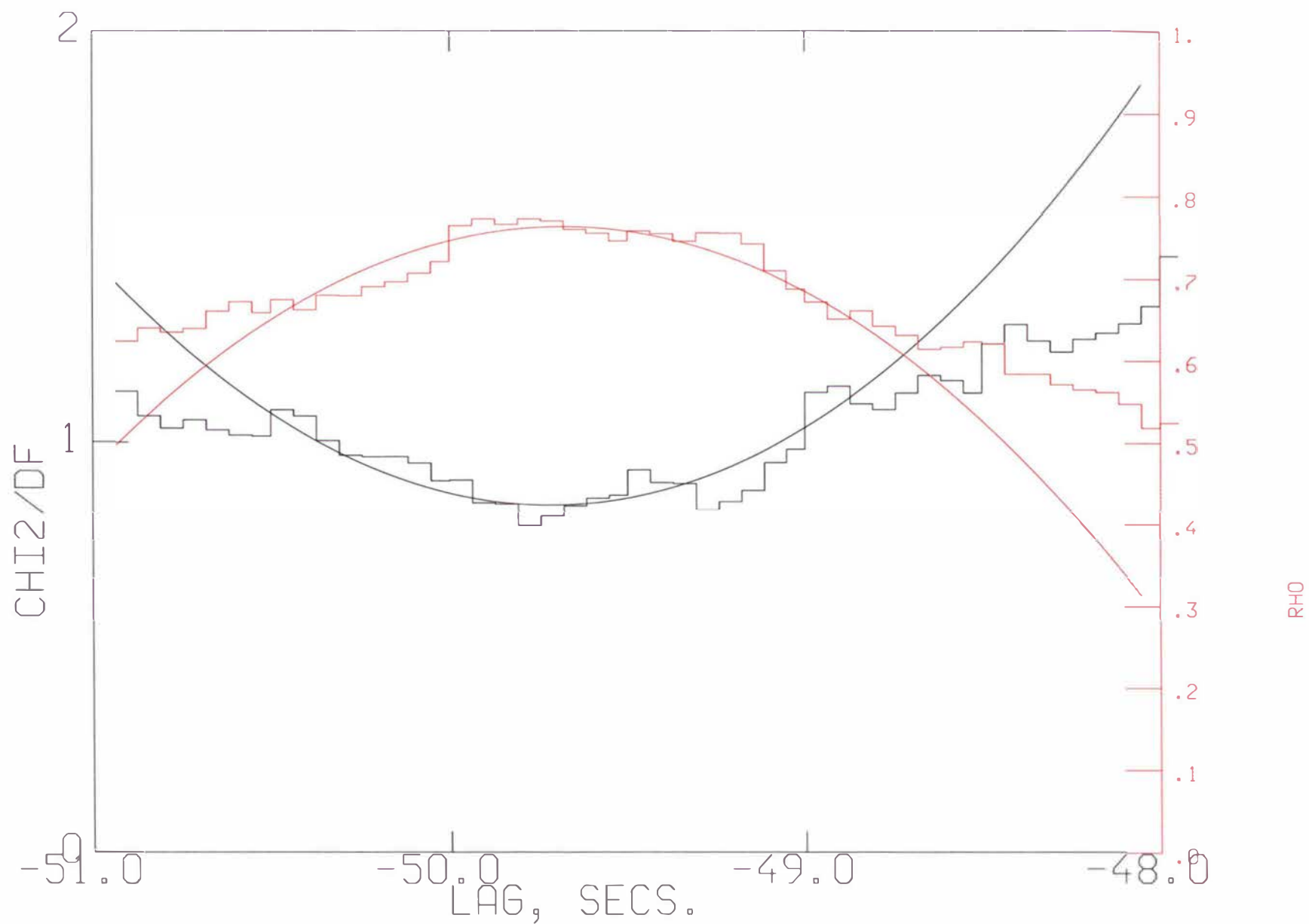


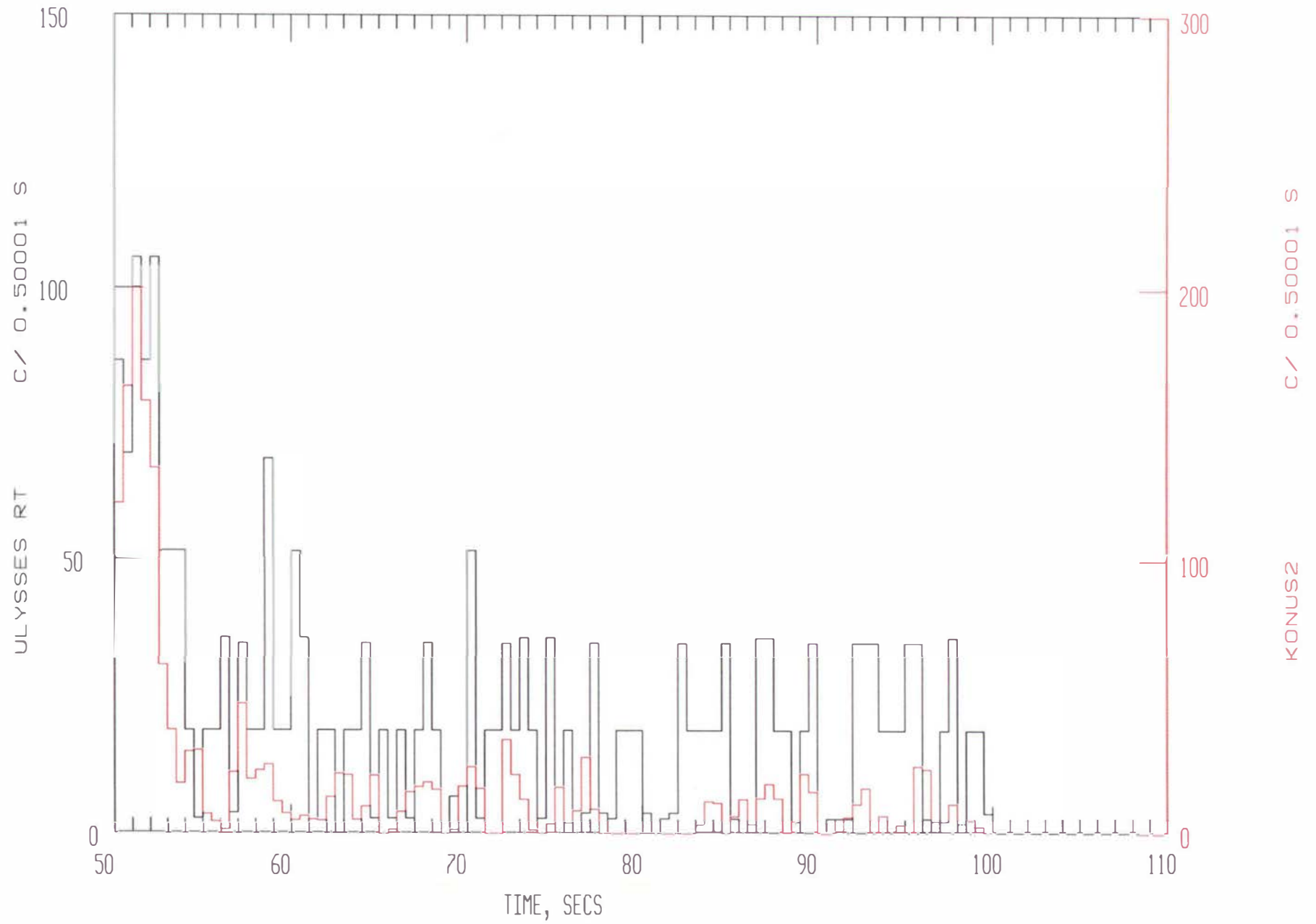
EVENT OF SEP 14, 1995 18:58

31/08/2011

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







KONUS 19950914 68372

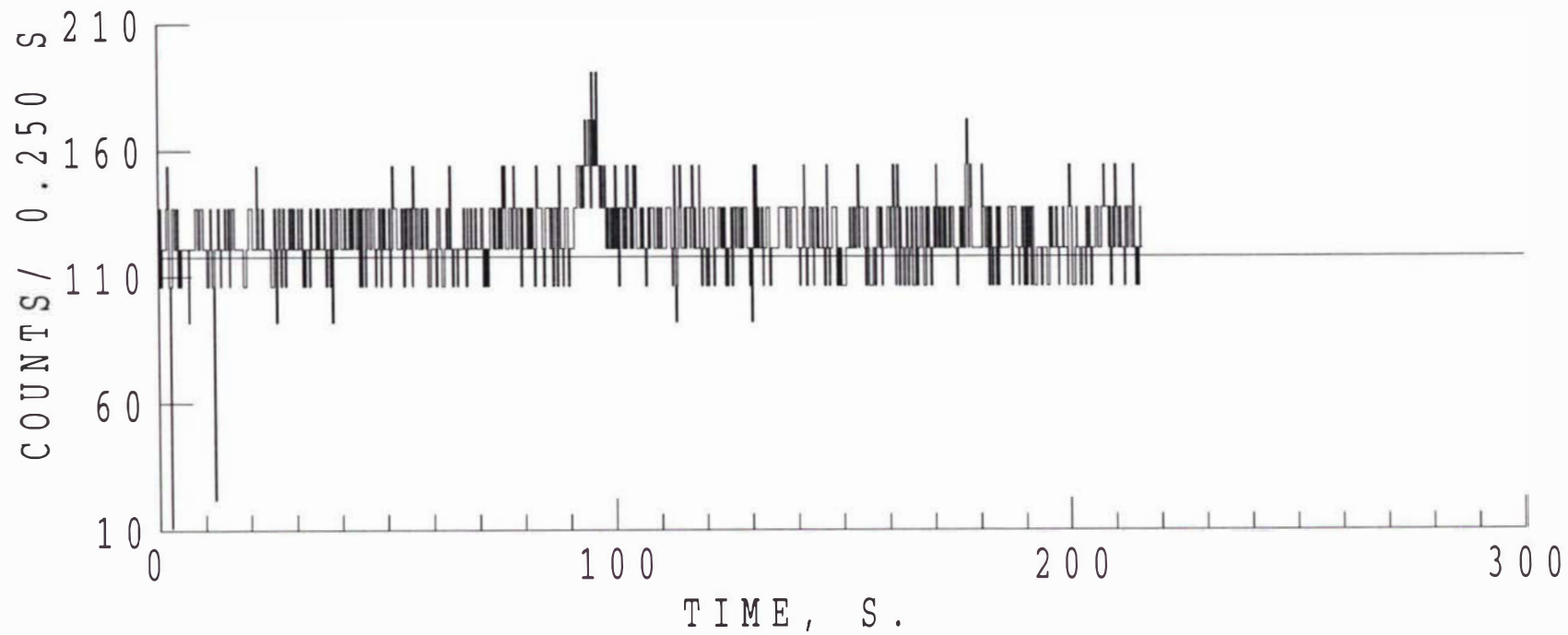
ULYSSES RT

30 / 08 / 11

14 / 09 / 95 68256.242 s

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

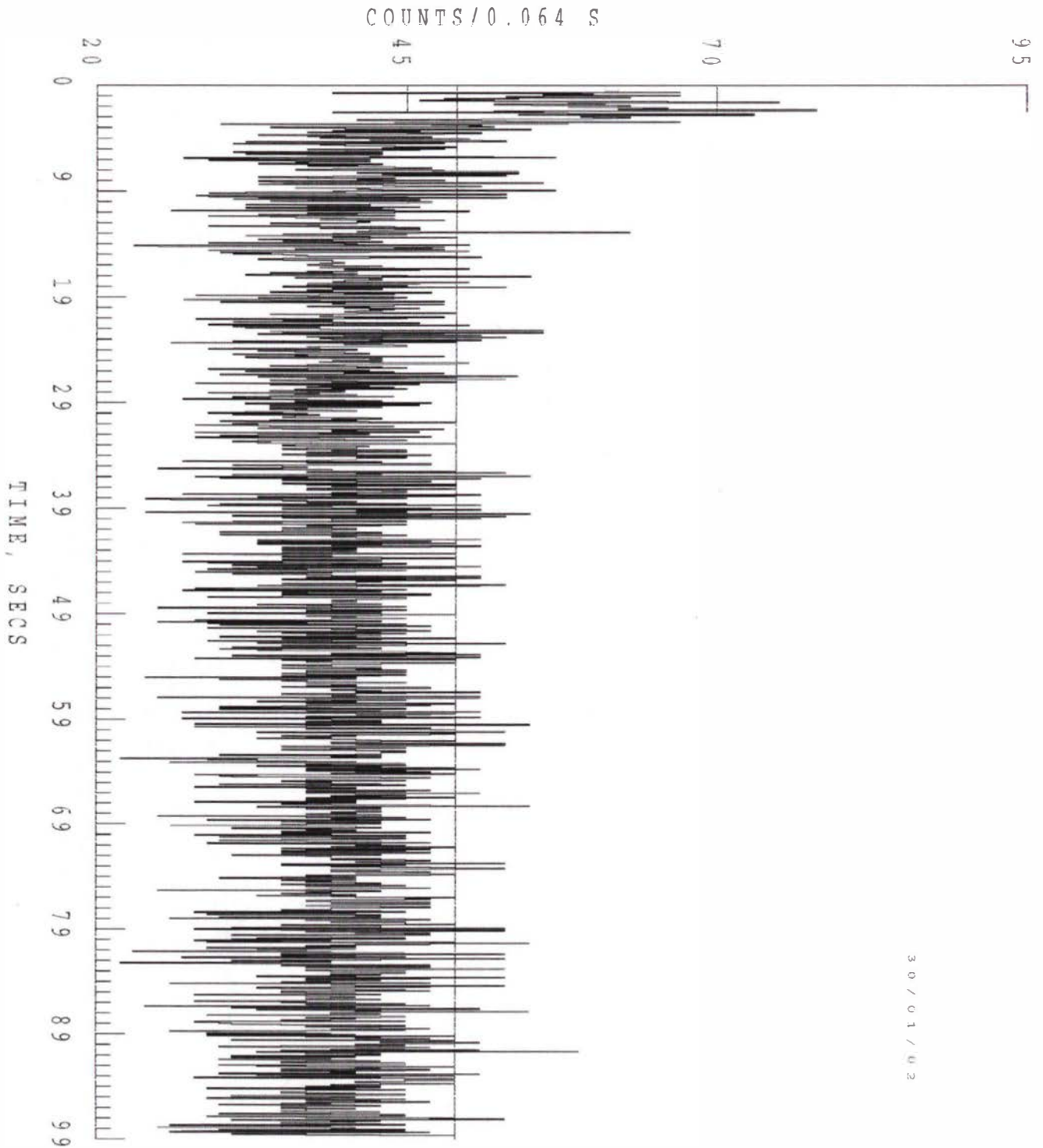


KONUS2

14/09/95

68938.109

50 - 200 keV



30/01/02

KONUS2 19950914 68938

ULYSSES RT

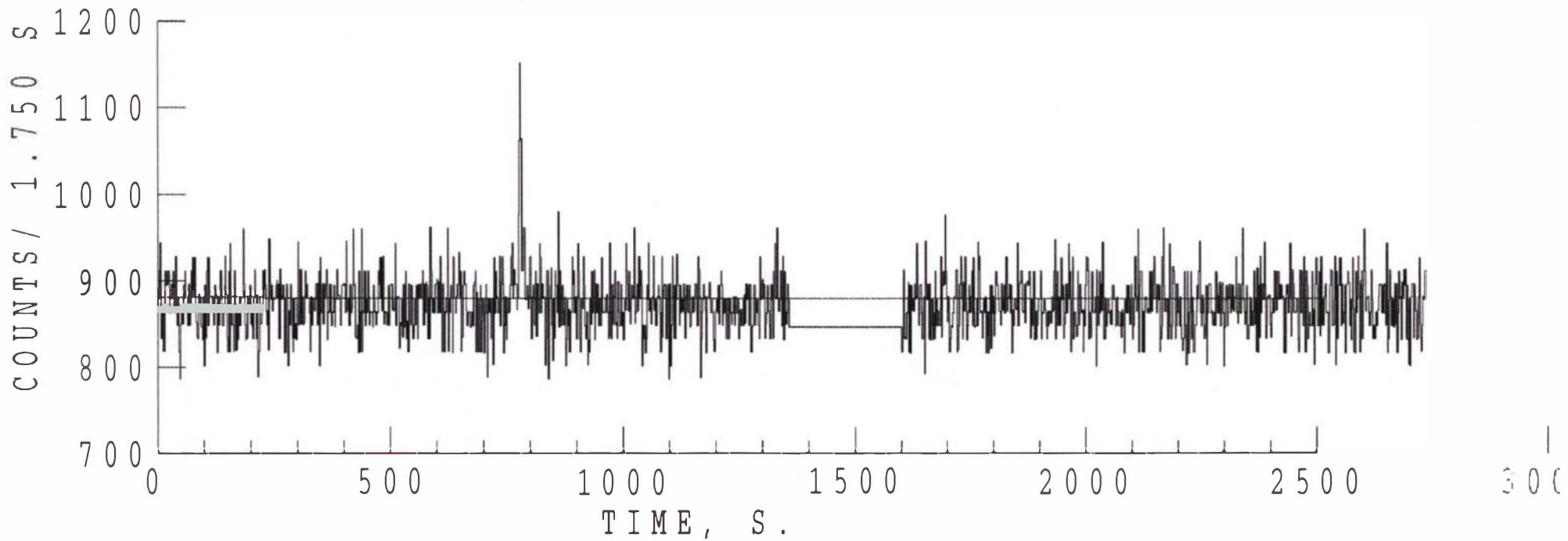
30 / 01 / 02

14 / 09 / 95 67572.227 s

0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From DEAL@ssl.msfc.nasa.gov Mon Sep 18 10:39 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Mon, 18 Sep 1995 12:20:43 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3799

BATSEARCH PROGRAM

BATSE BURST # 3799
EVENT OF 1995 SEP 14 DAY OF YEAR=257
EVENT CROSSING TIME AT BATSE : 70820. S. OR 19:40:20.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 58.000 -35.000
BATSE PEAK COUNTING RATE: 5000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 14/ 9/ 95 IS:
RA= 195.299 DEC= 64.675 DIST= 2.608 AU
BATSE-ULYSSES DISTANCE = 390102378. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 39.11 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 1009.71 SECS.
CROSSING TIME AT ULYSSES IS 71830. S. OR 19:57:09 +/- 207.84 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 14/ 9/ 95 IS:
RA= 212.097 DEC= -13.276 DIST= 2.079 AU
MARS-BATSE DISTANCE = 311082368. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 54.16 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 607.50 SECS.
CROSSING TIME AT MARS IS 71428. S. OR 19:50:27 +/- 155.28 SECONDS

BATSE BURST TRIGGER

NO.: 3799

TIME: TJD=9974 SECONDS=70820

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=33.1 AZIMUTH=42.5 ERROR=9.32 DEGREES

COMMENTS:

BURST LASTING ~ 0.13 S. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3799	950914	9974	70820	5000	058	-35	.13

25 / 9 / 95

ULYSSES RT

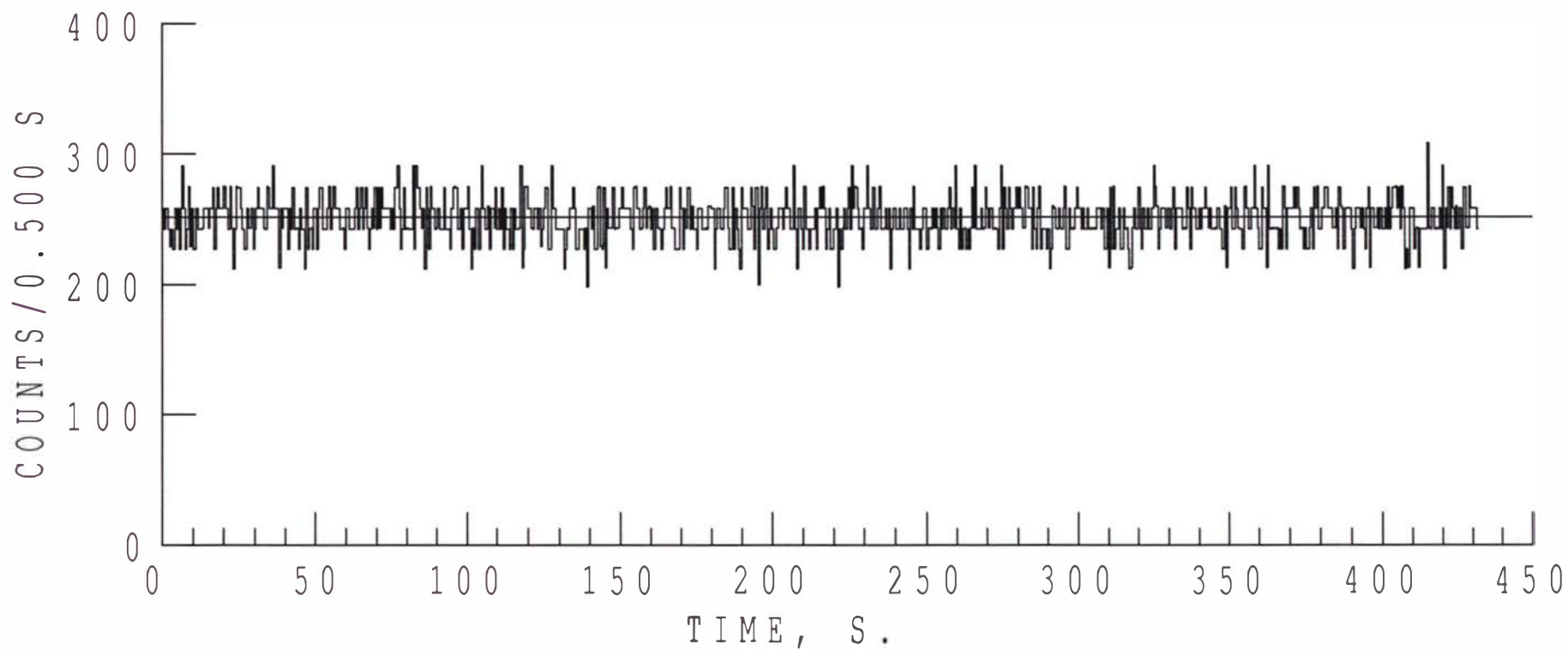
14 / 9 / 95 71172.039 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



KONUS

ULYSSES RT

26 / 01 / 00

14 / 08 / 95 86040.125 s

0.250 S INTERVALS REGROUPED BY 7

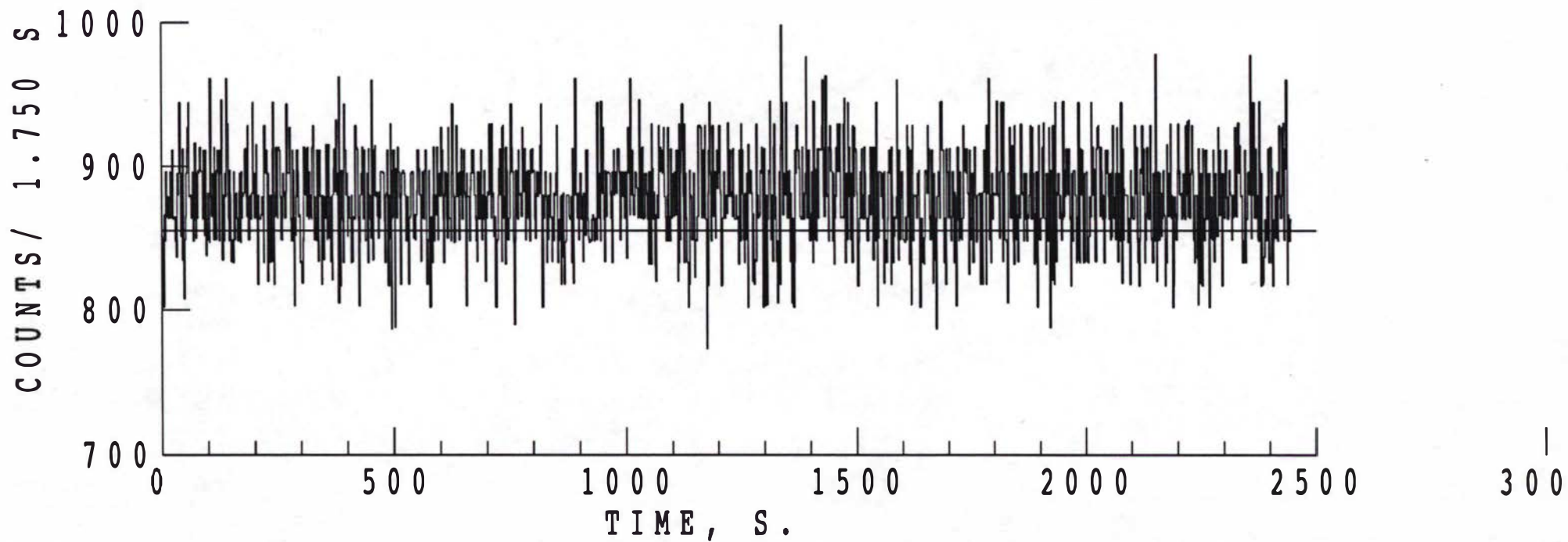
0 - 0 keV

W= 10 N= 10

>4.0 SIGMA FLUCTUATIONS

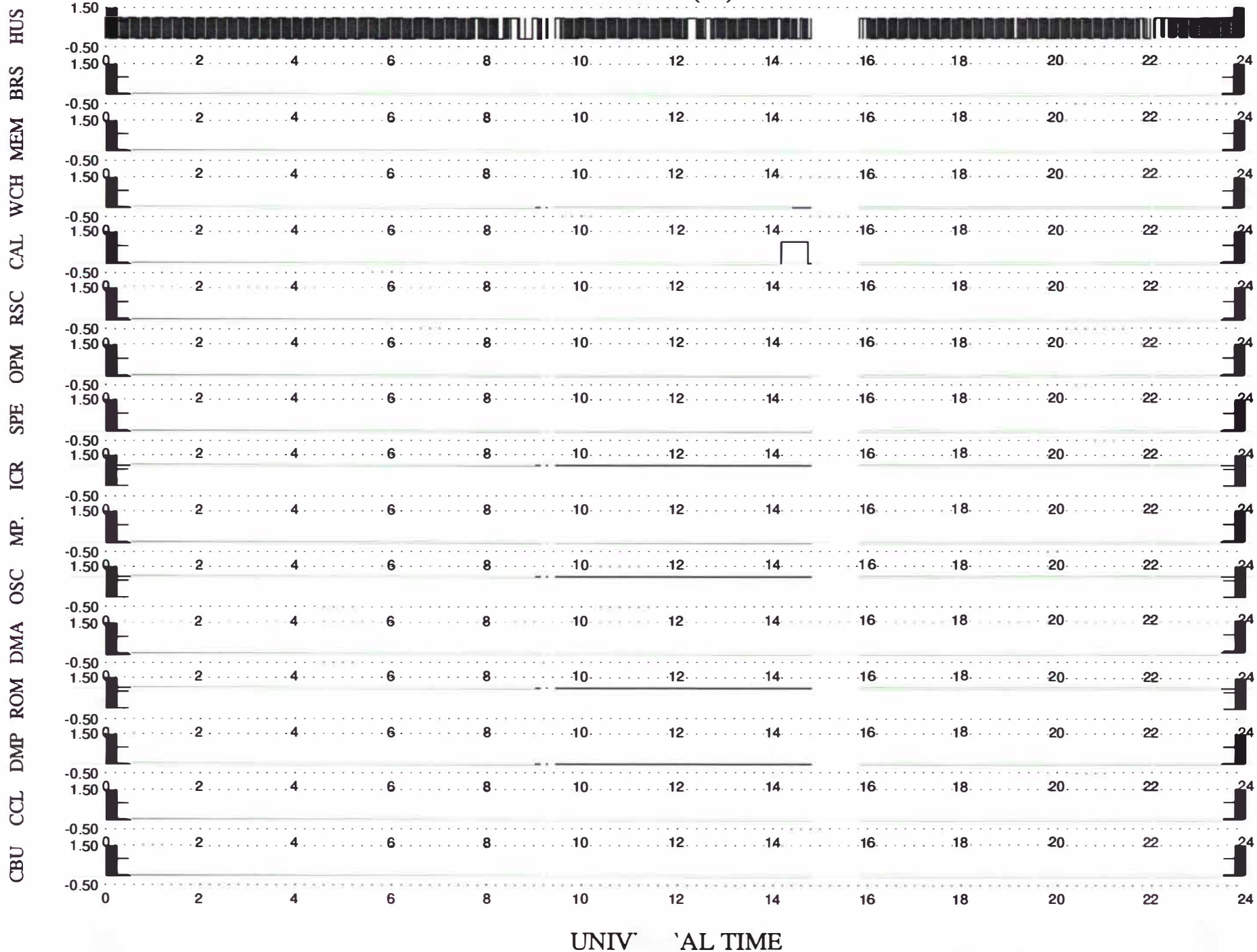
W= 10 N= 2

>4.0 SIGMA FLUCTUATIONS



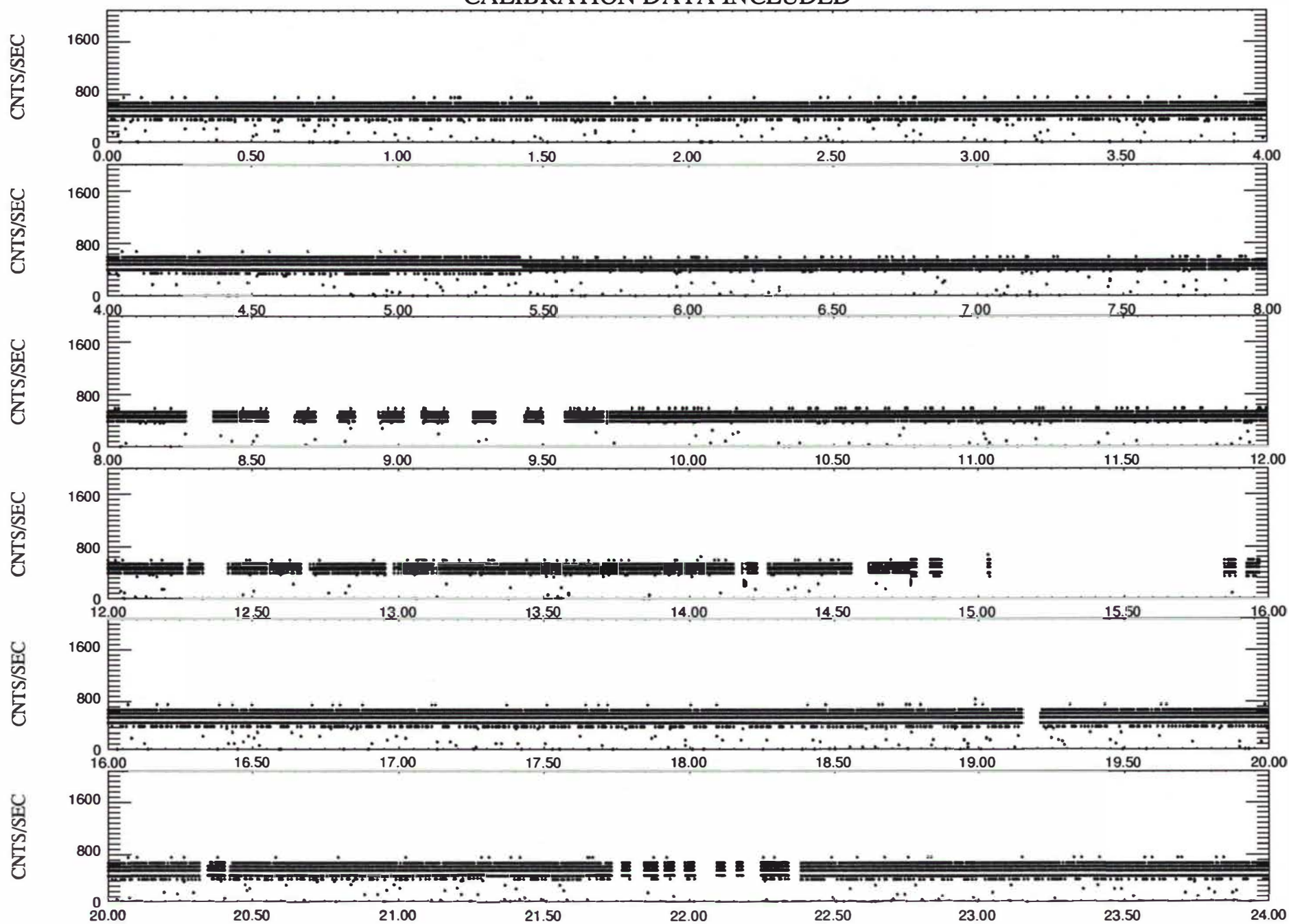
HUS MODES EDR day 257, year 1995 to day 257, year 1995 NO BURST (15)

1/25/96

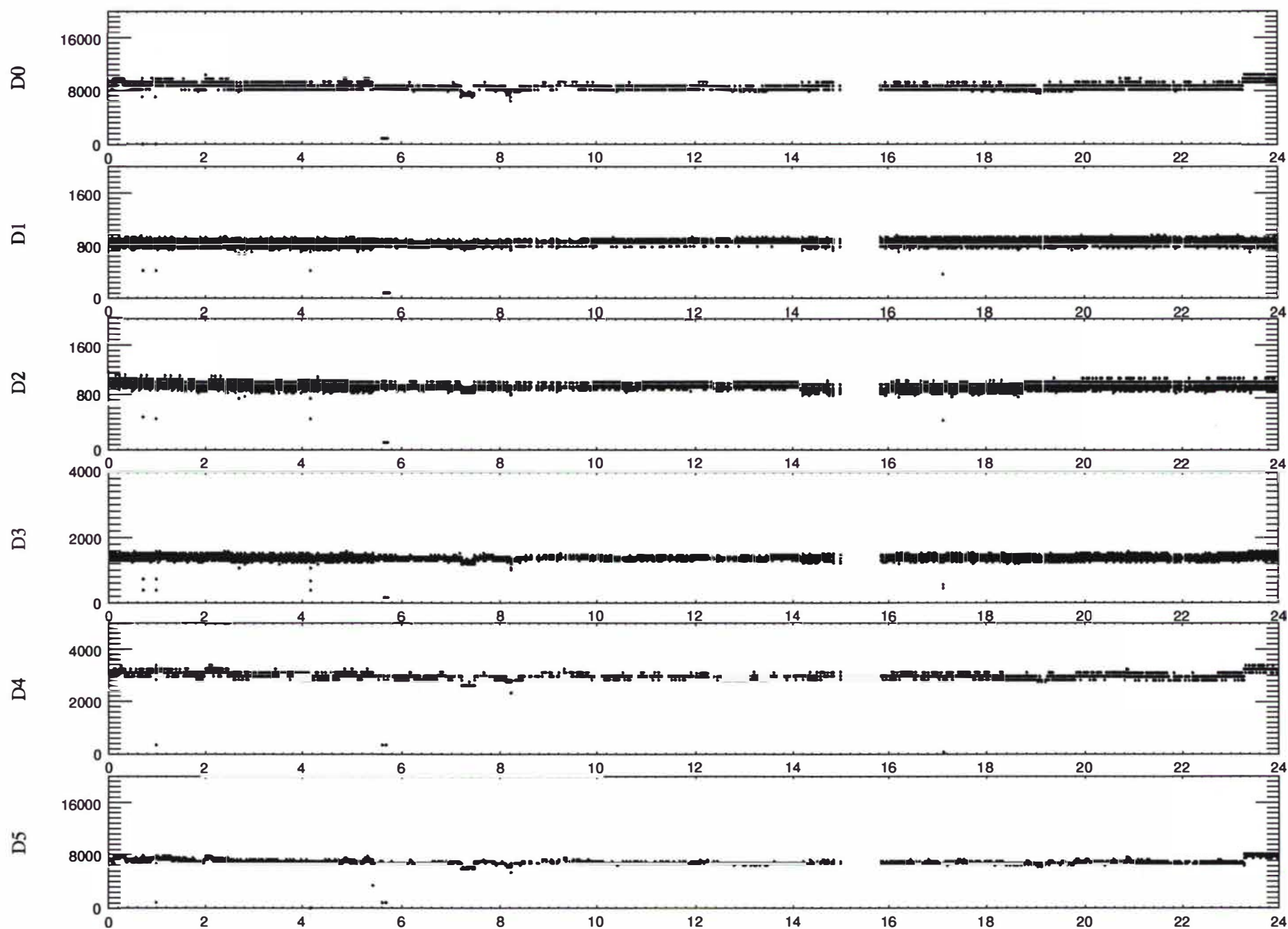


HUS 2A, MODE 1, NOT AVERAGED EDR day 257, year 1995 to day 257, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



UNIVERSAL TIME

KONUS (on the 15th)

26 / 01 / 00

ULYSSES RT

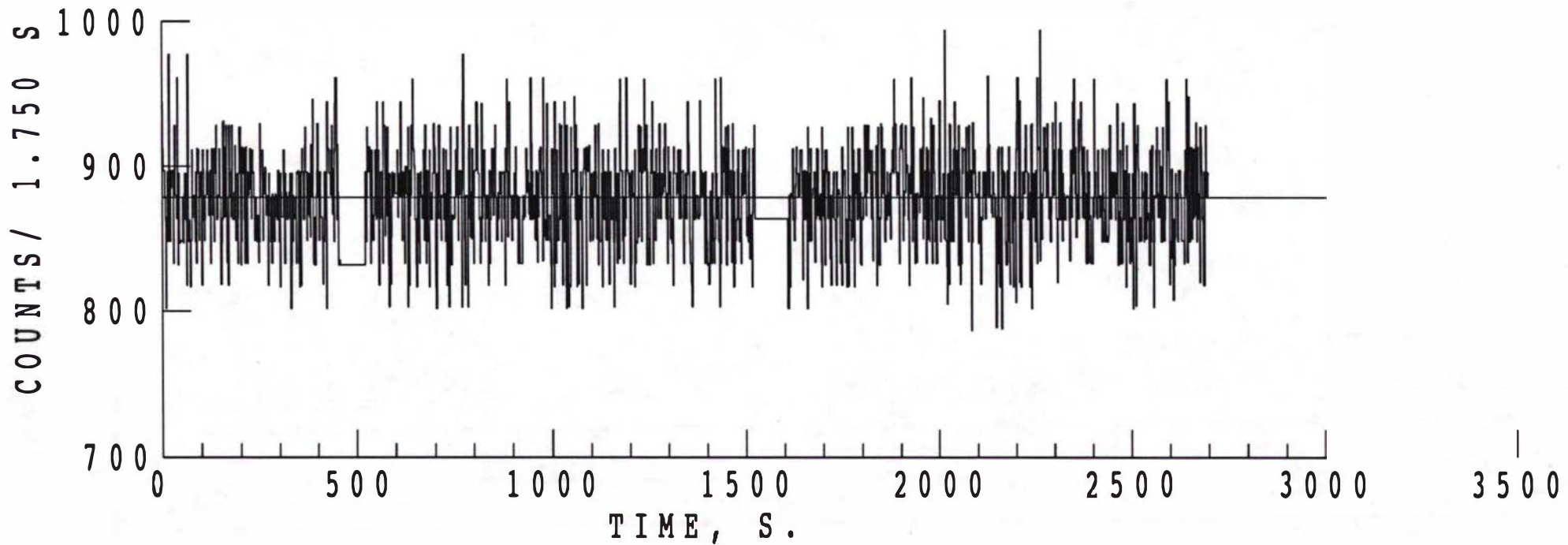
14 / 09 / 95 85932.039 s

0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

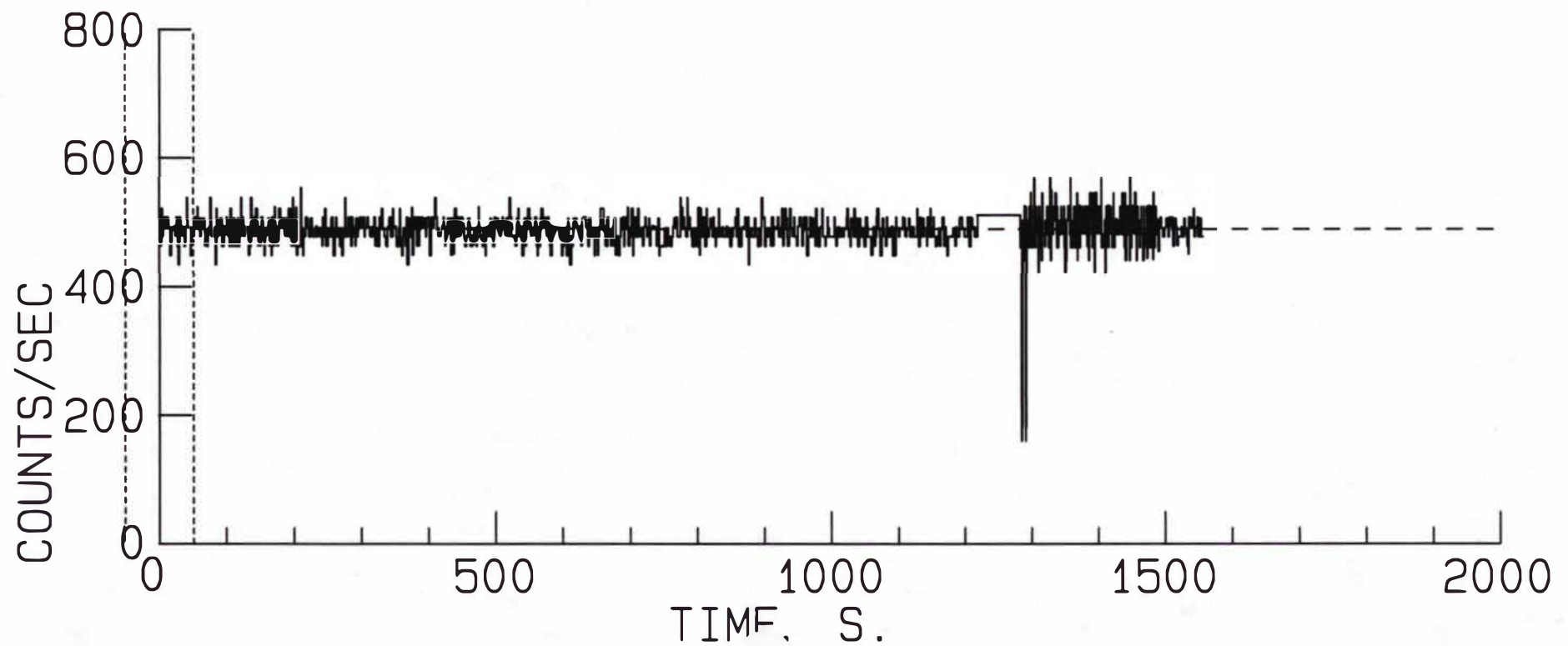
N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

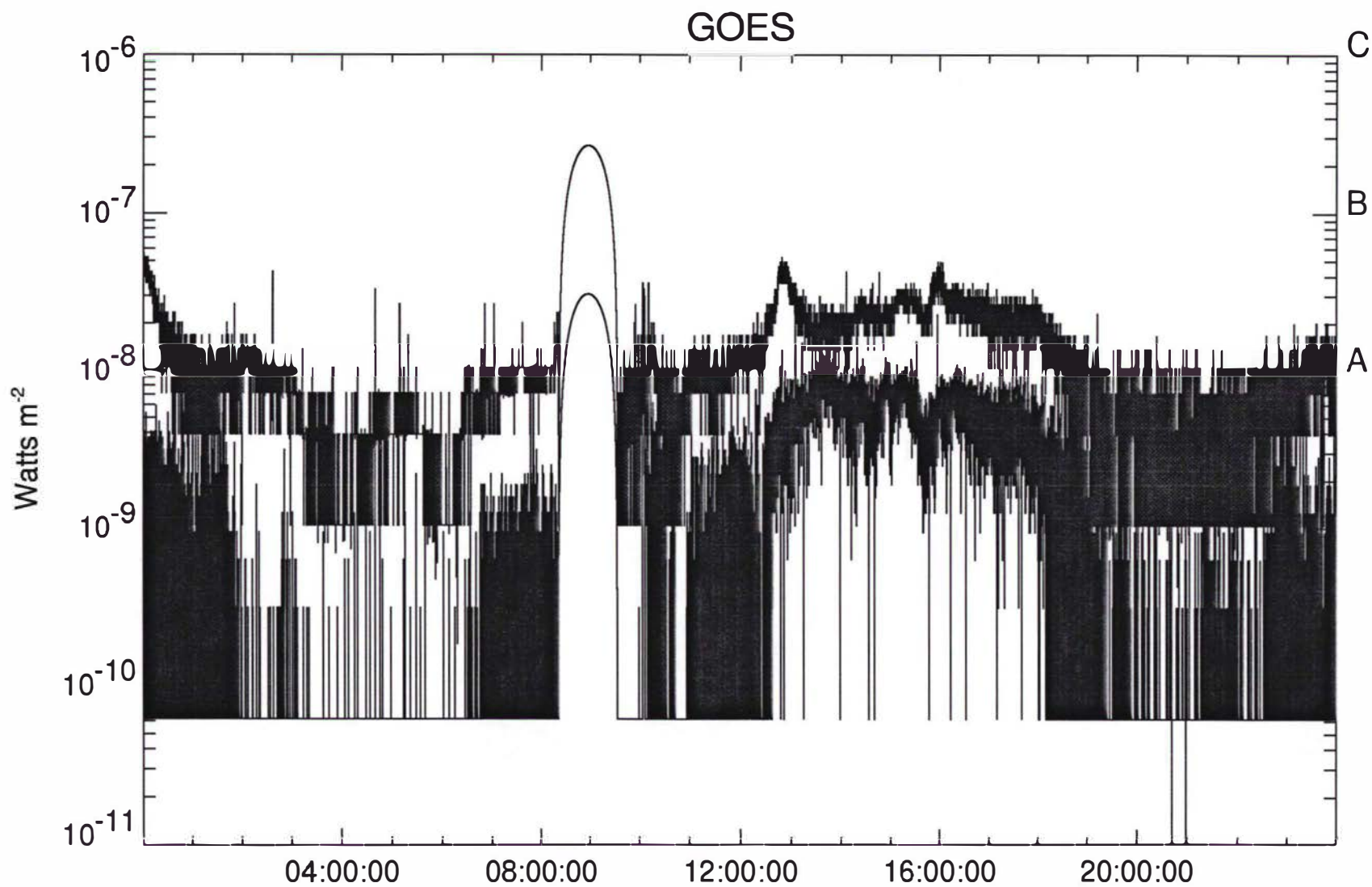
N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



ULYSSES RT
15/ 9/95 49860.408 s
INTERVALS REGROUPED BY 3
21- 142 keV

27 / 1 / 0





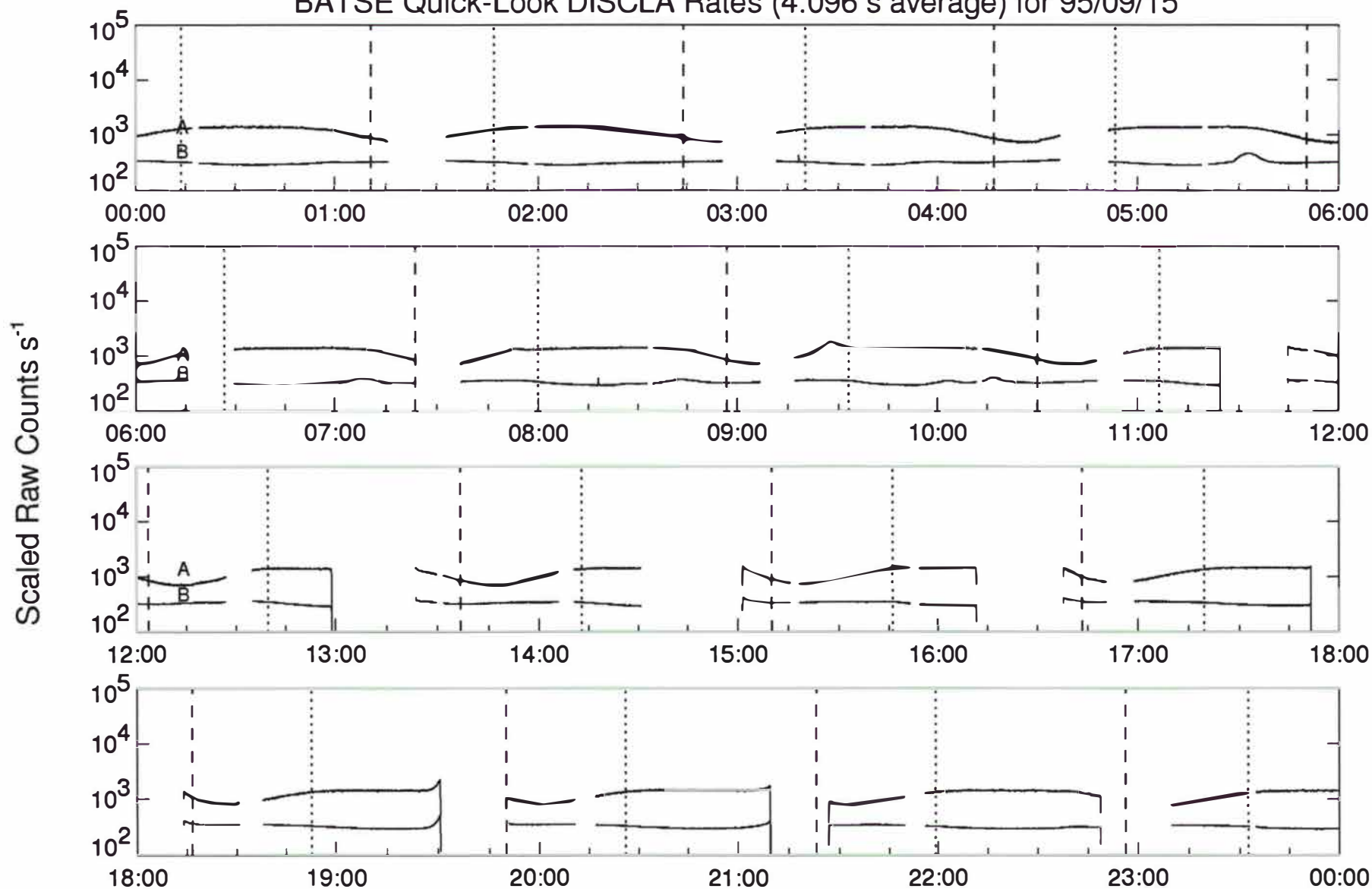
Data Start: 95/09/15, 0000:02

Plot created: 95/09/17, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/15



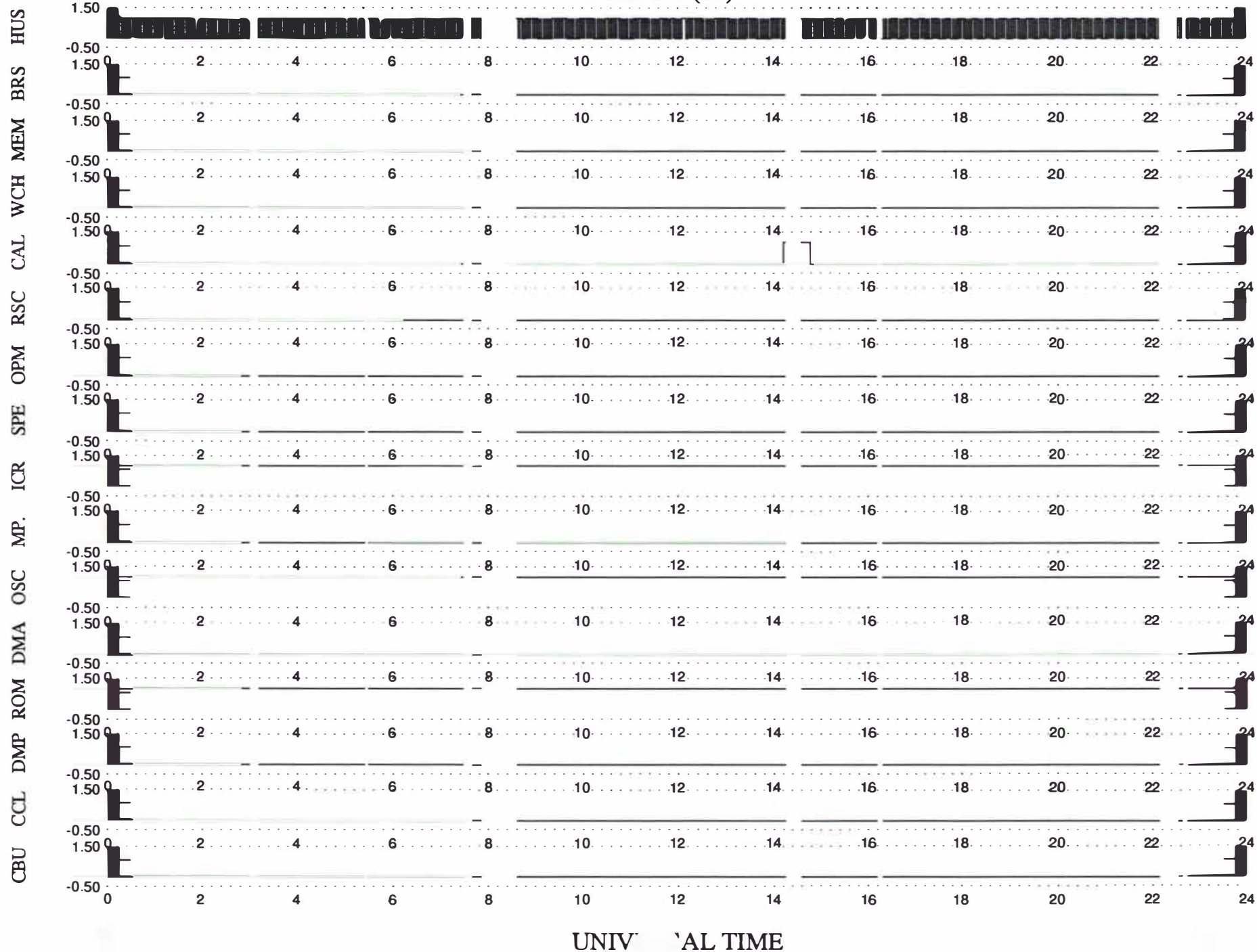
Current Time: 95/09/17, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

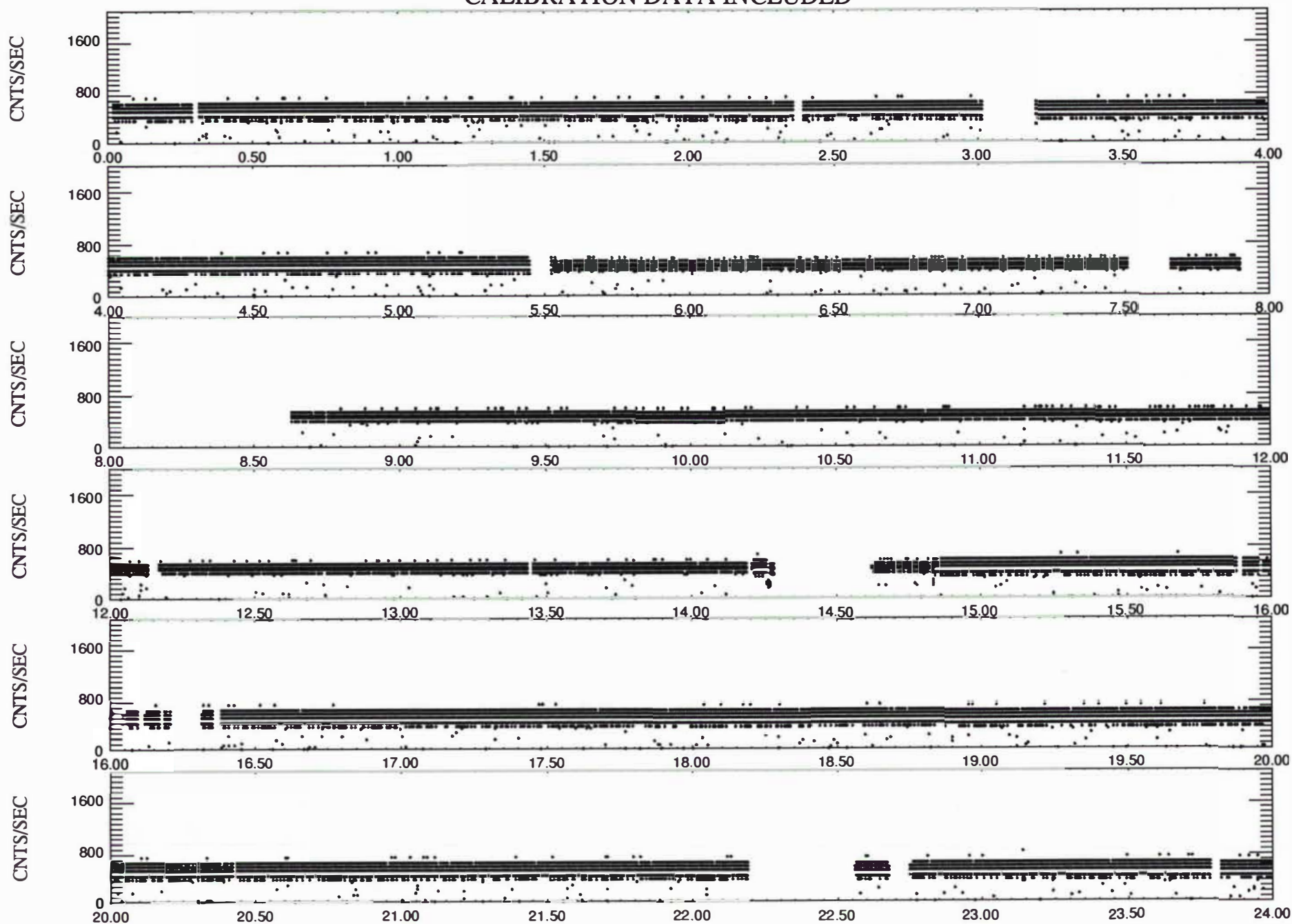
HUS MODES EDR day 258, year 1995 to day 258, year 1995 NO BURST (15)

1/25/96

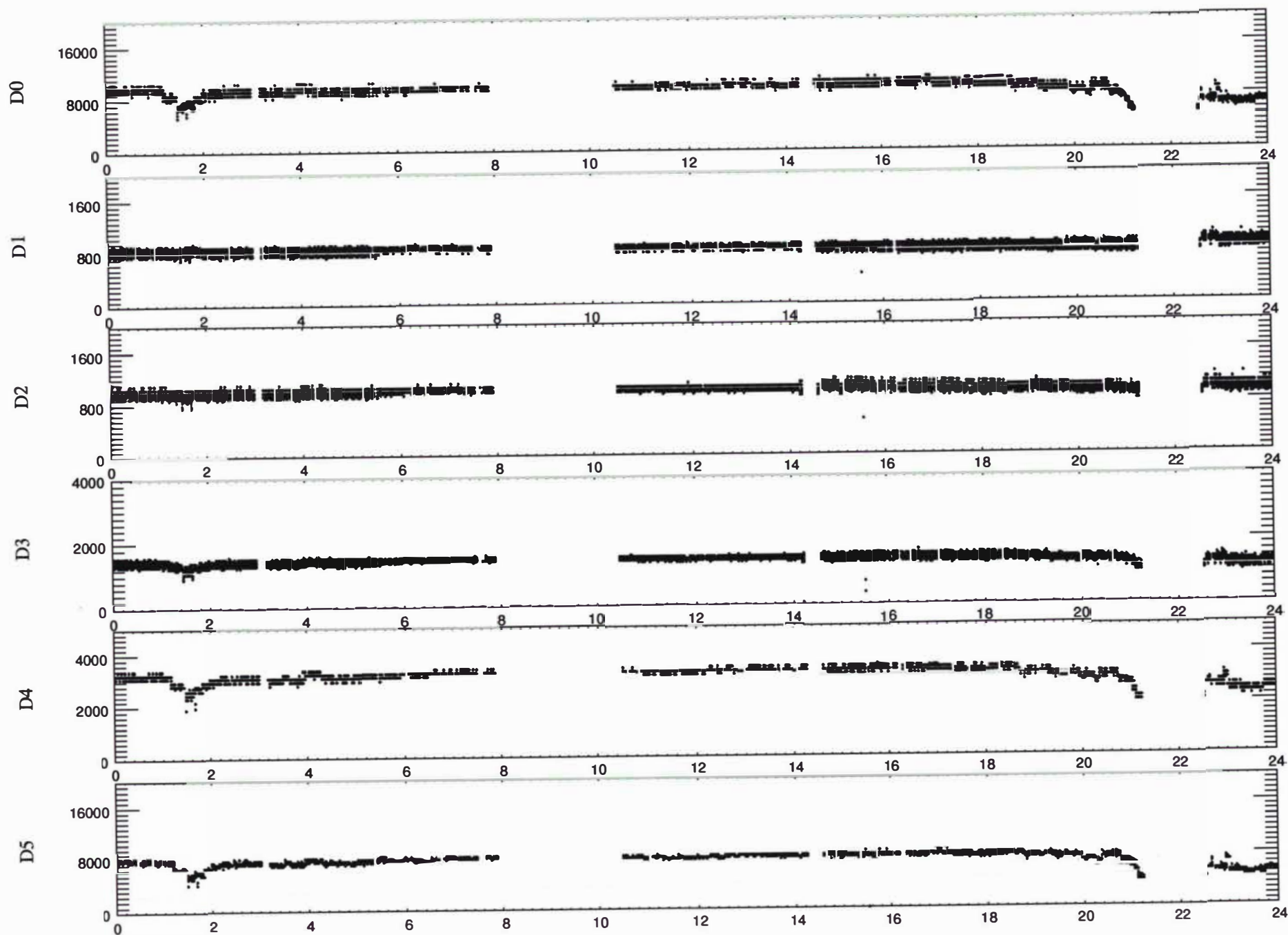


HUS 2A, MODE 1, NOT AVERAGED EDR day 258, year 1995 to day 258, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



From HENZE@fender.msfc.nasa.gov Mon Sep 18 10:57 PDT 1995
From: HENZE@fender.msfc.nasa.gov
Date: Mon, 18 Sep 1995 12:57:22 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3800

BATSEARCH PROGRAM

NO

BATSE BURST # 3800
EVENT OF 1995 SEP 16 DAY OF YEAR=259
EVENT CROSSING TIME AT BATSE : 35466. S. OR 09:51:06.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 15.000 6.000
BATSE PEAK COUNTING RATE: 2500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 16/ 9/ 95 IS:
RA= 196.024 DEC= 64.197 DIST= 2.619 AU
BATSE-ULYSSES DISTANCE = 391798042. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 70.20 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 442.68 SECS.
CROSSING TIME AT ULYSSES IS 35909. S. OR 09:58:28 +/- 270.21 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 16/ 9/ 95 IS:
RA= 213.389 DEC= -13.745 DIST= 2.088 AU
MARS-BATSE DISTANCE = 312301792. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 19.69 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 980.84 SECS.
CROSSING TIME AT MARS IS 36447. S. OR 10:07:26 +/- 75.82 SECONDS

BATSE BURST TRIGGER

NO.: 03800

TIME: TJD=9976 SECONDS=35466

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=039.7 AZIMUTH=151.6 ERROR=005.5 DEGREES

COMMENTS:

SINGLE PULSE WITH STRUCTURE, DUR. ~25 S. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3800	950916	9976	35466	2500	015	+06	25

25 / 9 / 95

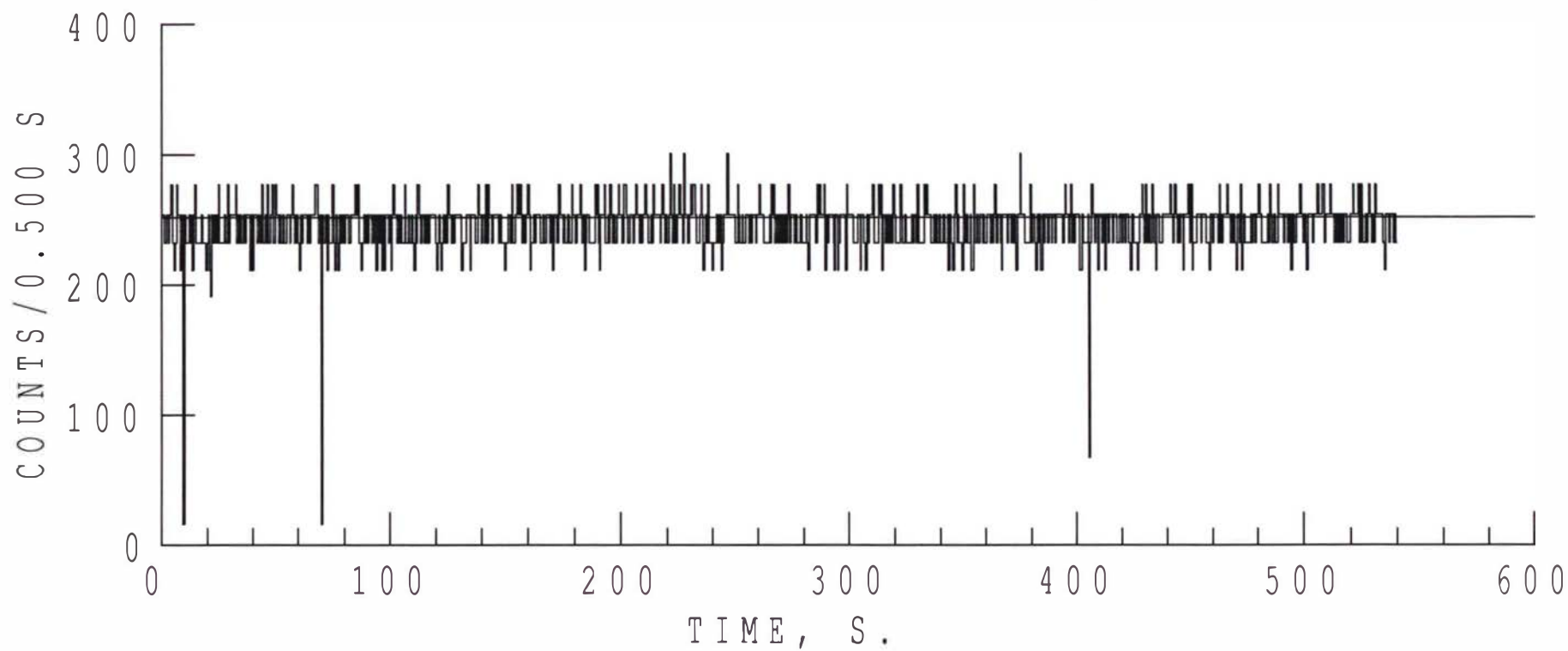
ULYSSES RT

16 / 9 / 95 35640.152 s

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From HENZE@fender.msfc.nasa.gov Mon Sep 18 10:59 PDT 1995
From: HENZE@fender.msfc.nasa.gov
Date: Mon, 18 Sep 1995 12:59:32 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3801

BATSEARCH PROGRAM

BATSE BURST # 3801
EVENT OF 1995 SEP 16 DAY OF YEAR=259
EVENT CROSSING TIME AT BATSE : 76996. S. OR 21:23:16.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 193.000 24.000
BATSE PEAK COUNTING RATE: 3100 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 16/ 9/ 95 IS:
RA= 196.241 DEC= 64.054 DIST= 2.622 AU
BATSE-ULYSSES DISTANCE = 392307016. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=139.89 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1000.81 SECS.
CROSSING TIME AT ULYSSES IS 75995. S. OR 21:06:35 +/- 181.18 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 16/ 9/ 95 IS:
RA= 213.389 DEC= -13.745 DIST= 2.088 AU
MARS-BATSE DISTANCE = 312301792. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=137.32 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -765.82 SECS.
CROSSING TIME AT MARS IS 76230. S. OR 21:10:30 +/- 110.98 SECONDS

BATSE BURST TRIGGER

NO.: 03801

TIME: TJD=9976 SECONDS=76996

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=169.8 AZIMUTH=353.1 ERROR=001.9 DEGREES

COMMENTS:

COMPLEX, EMISSION BEGINS AT ~T-15 S, DUR. ~30 S. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3801	950916	9976	76996	3100	193	+24	30

Date: Feb 19 '98

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☐ Is the order of the data in CORREL such that a vernier is done on the data with the best time resolution? *No - bad stats*

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)? *N/A*
- ☒ BATSE ephemeris for T_0 ?
- ☒ Error circle position and radius from public catalog used?
- ☐ If MER data were used, is a 30 ms systematic error included? *N/A*

3. PVO Data

- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?

- ☒ ACCESS database updated?

*Must be a different burst -
V/B ratio is 0.37 and time histories
don't really match*

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

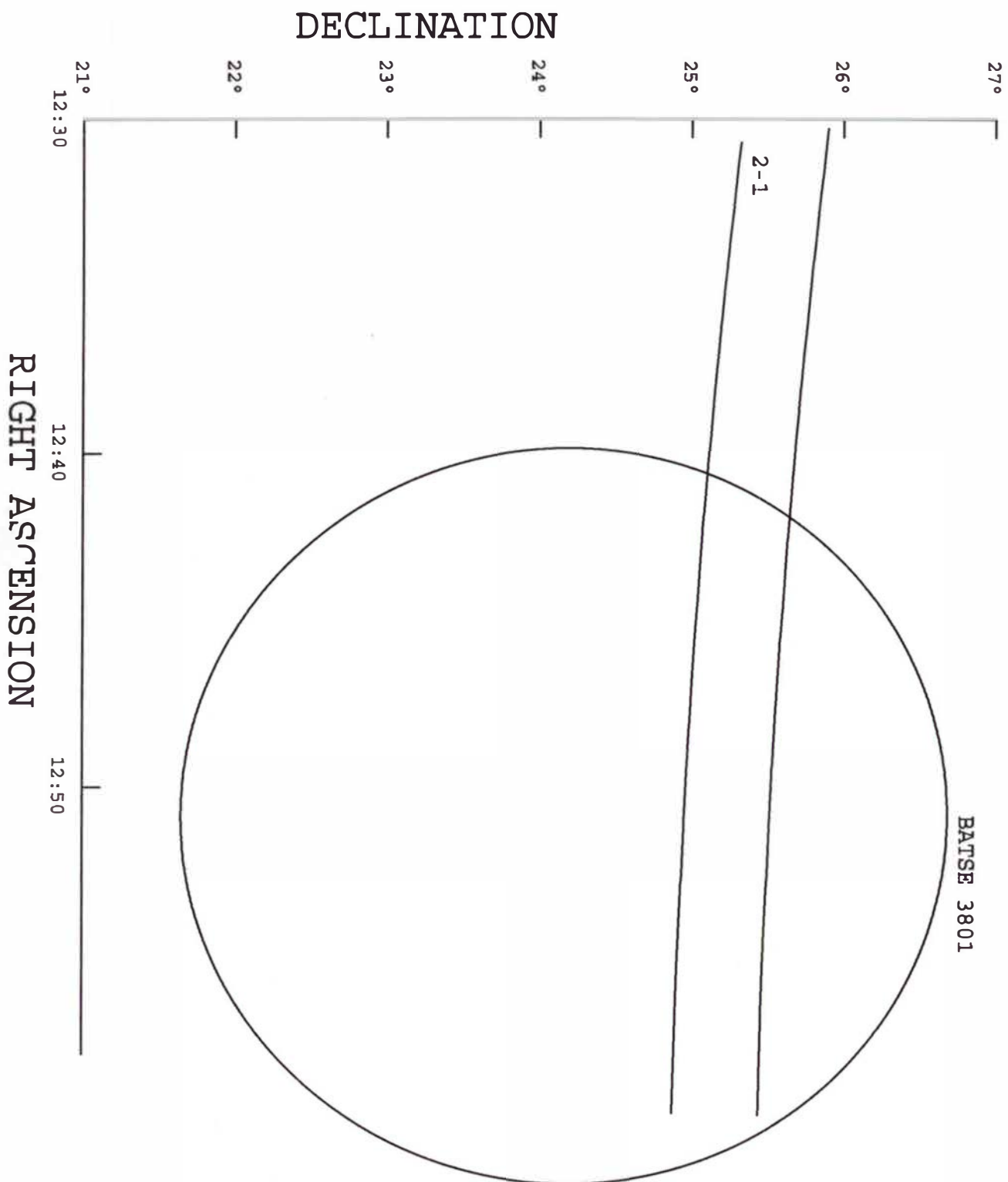
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF SEP 16, 1995 21:05

19 / 2/98



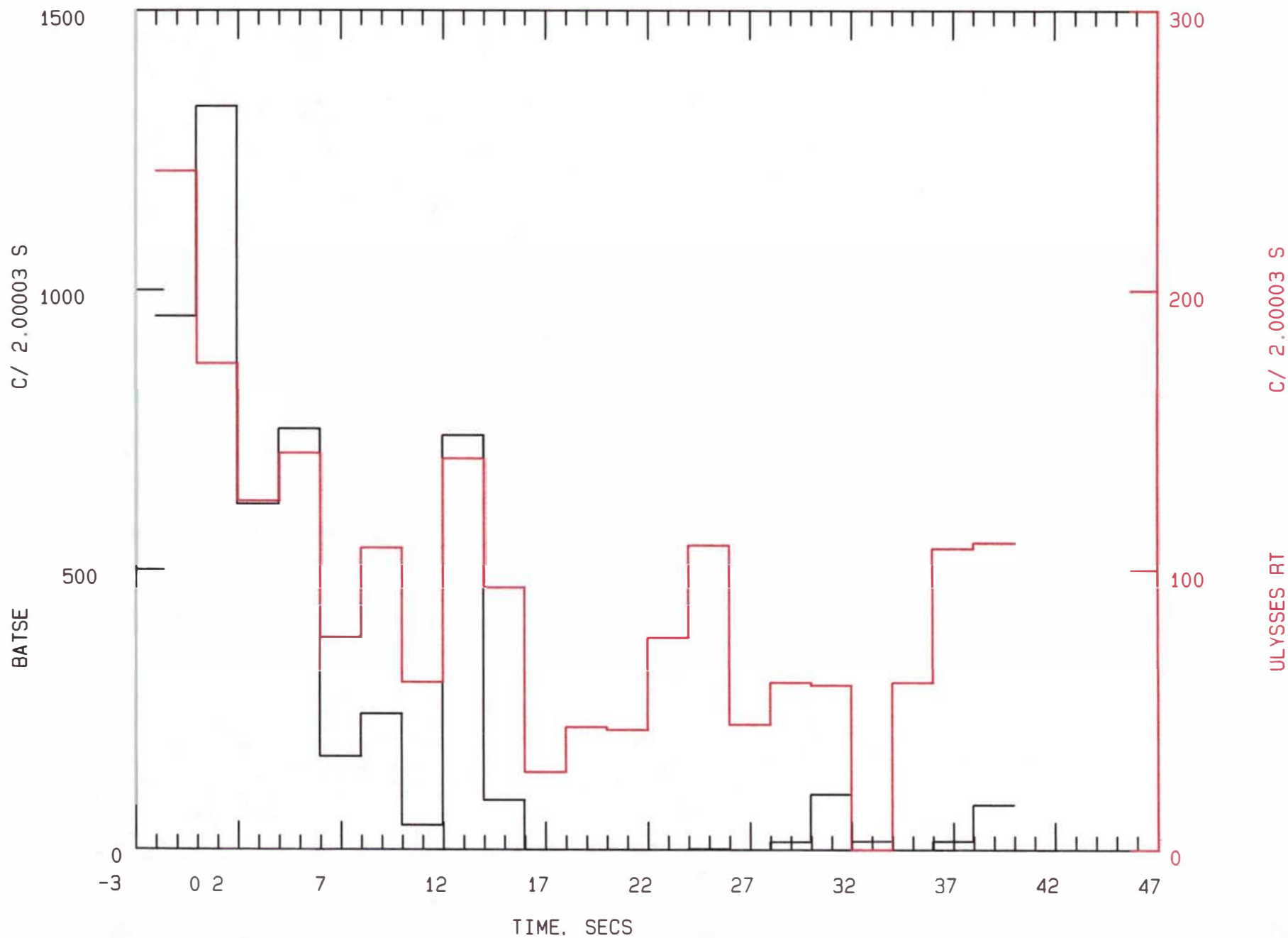
BATSE

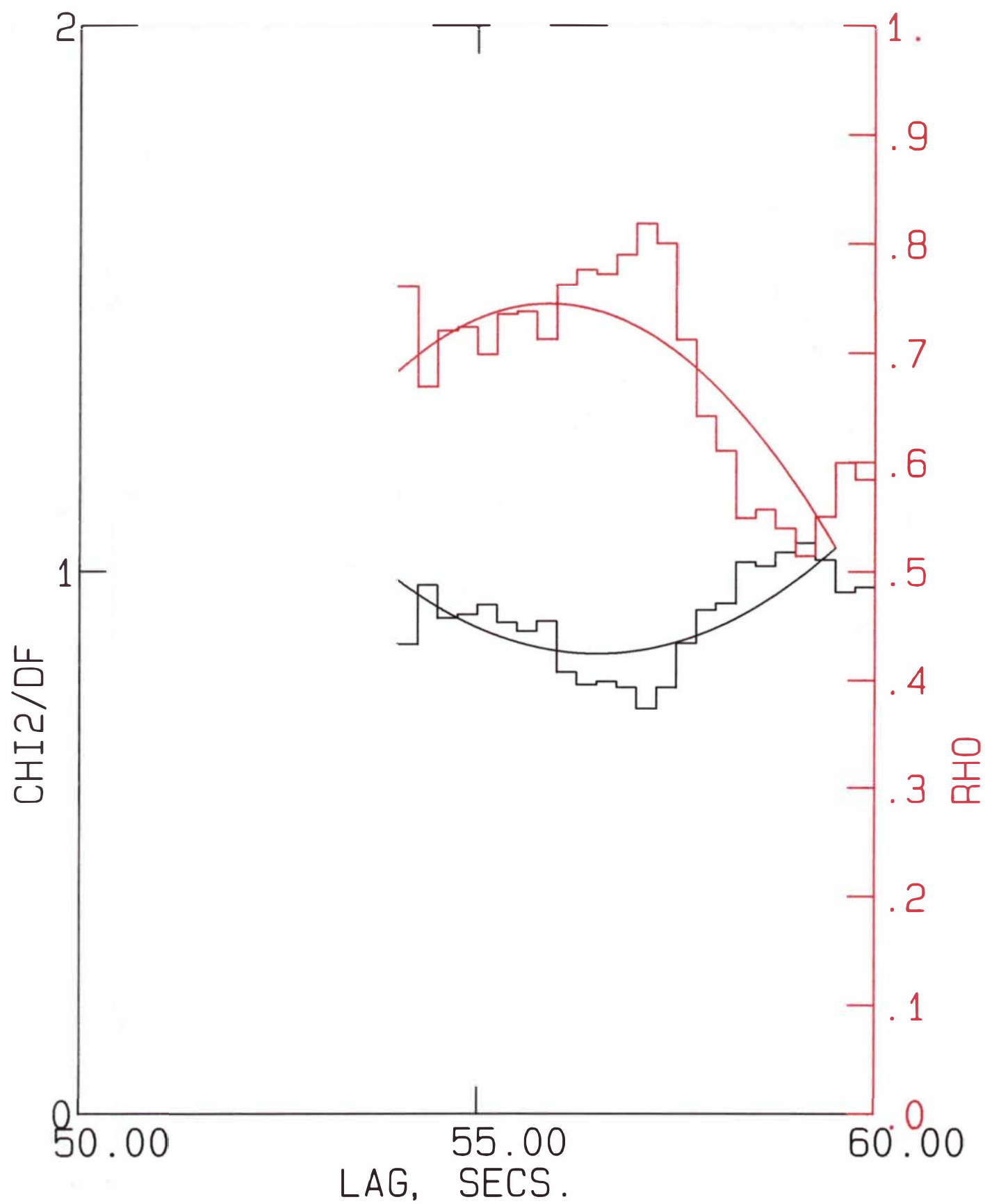
-ULYSSES RT CORRELATION

16/ 9/95

76996.274

19/ 2/98





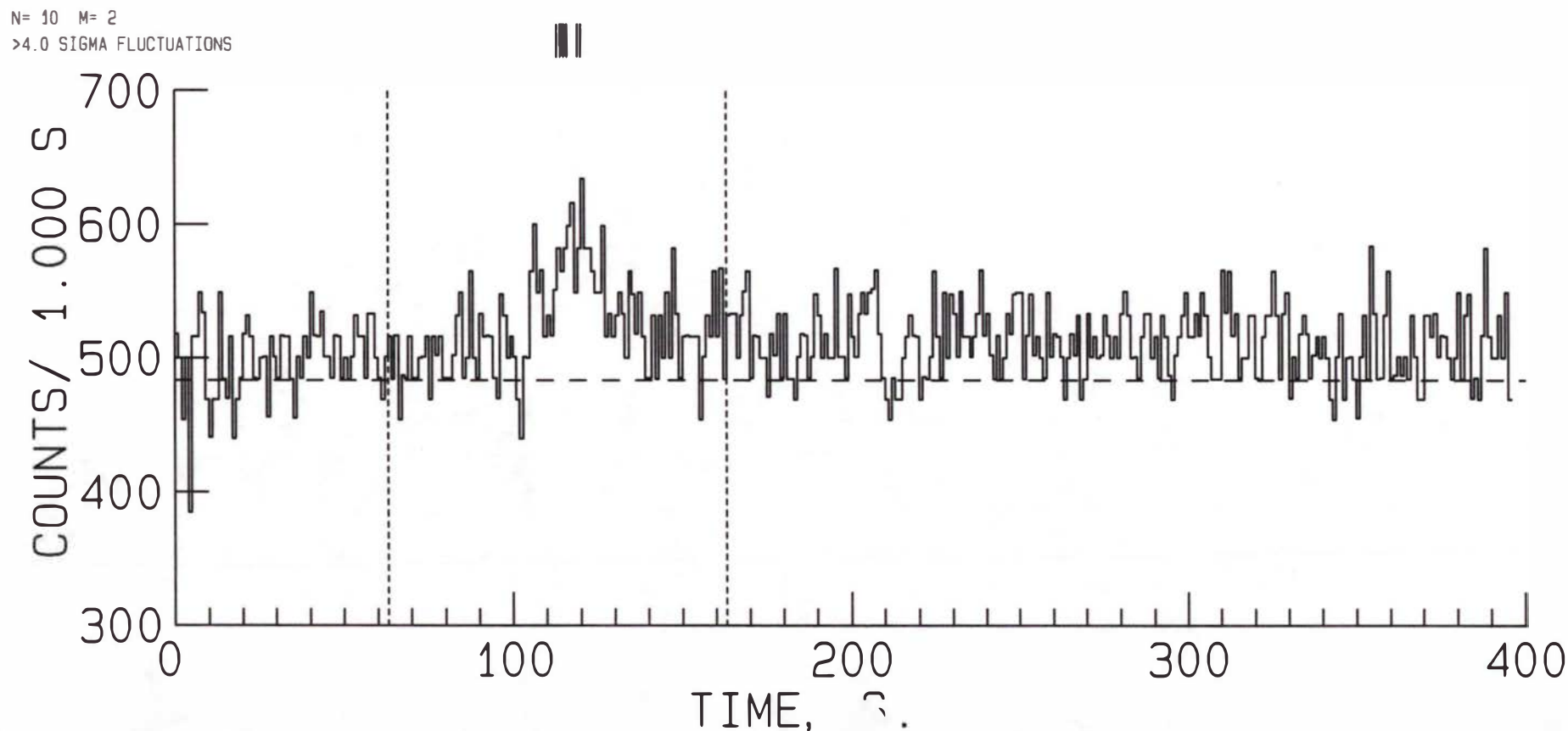
ULYSSES RT

19/ 2/98

16/ 9/95 75852.101 s

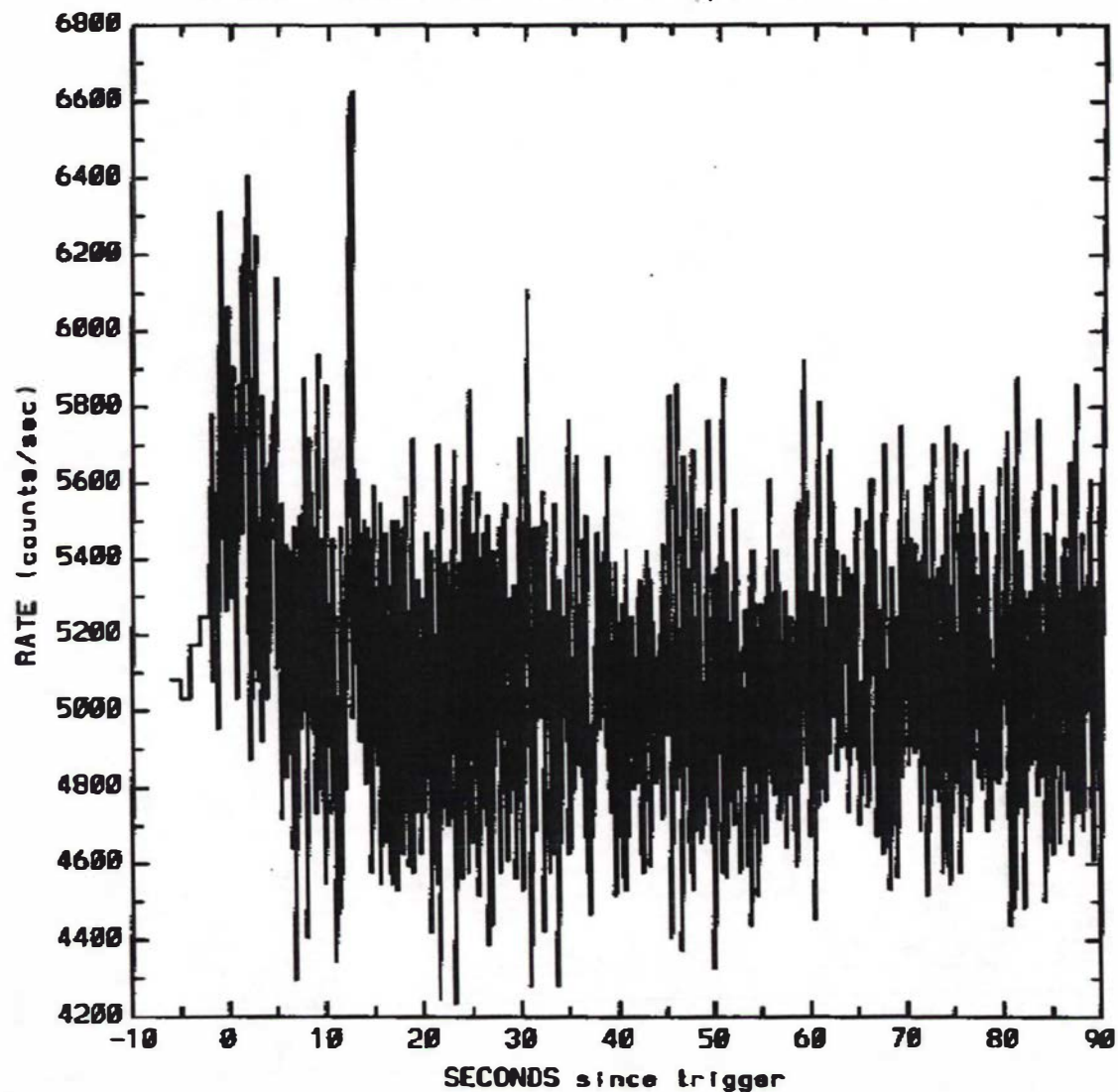
0.250 S INTERVALS REGROUPED BY 4

21- 143 keV



Sep 16

DISCSC Data for K. Hurley, No. 3801



6-OCT-1995 13:24:00

Created by NOPS 80
(Burst Display)
Version t2.25

Trigger # : 3801

Trigger Time:
9976 / 76996.274

Burst Data Type:
DISCSC

Deadtime
Corrected: N

Background Data
Type: PREB + DISCLA

Minimum Integ. Time:
0.064 seconds

Detectors [7..8].
---3-1-

Discriminators:
(1..2)

Quality Mask:
BDISP1

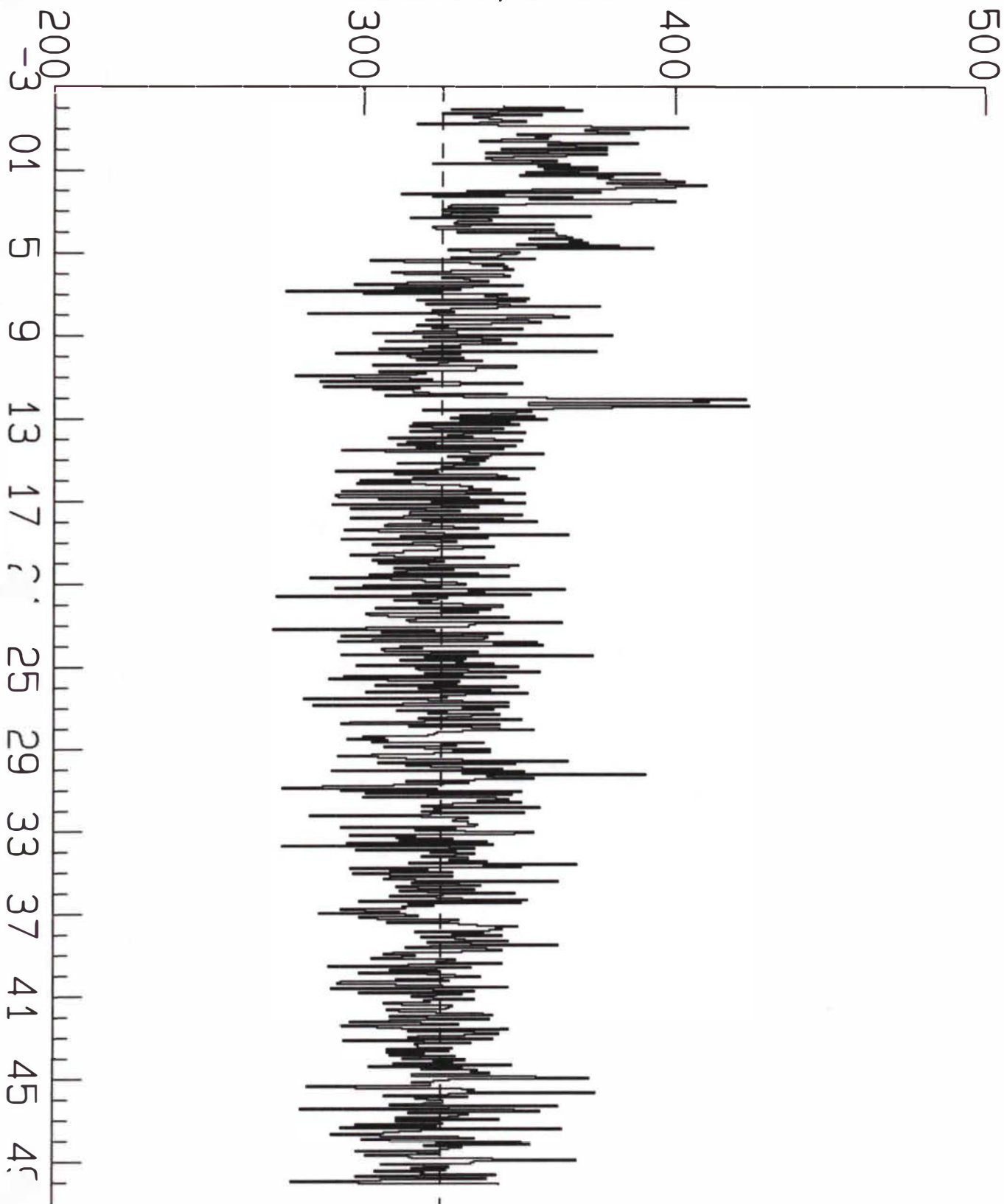
BATSE

16/09/95

76996.274

25- 100 keV

COUNTS/0.064 S



7/10/95

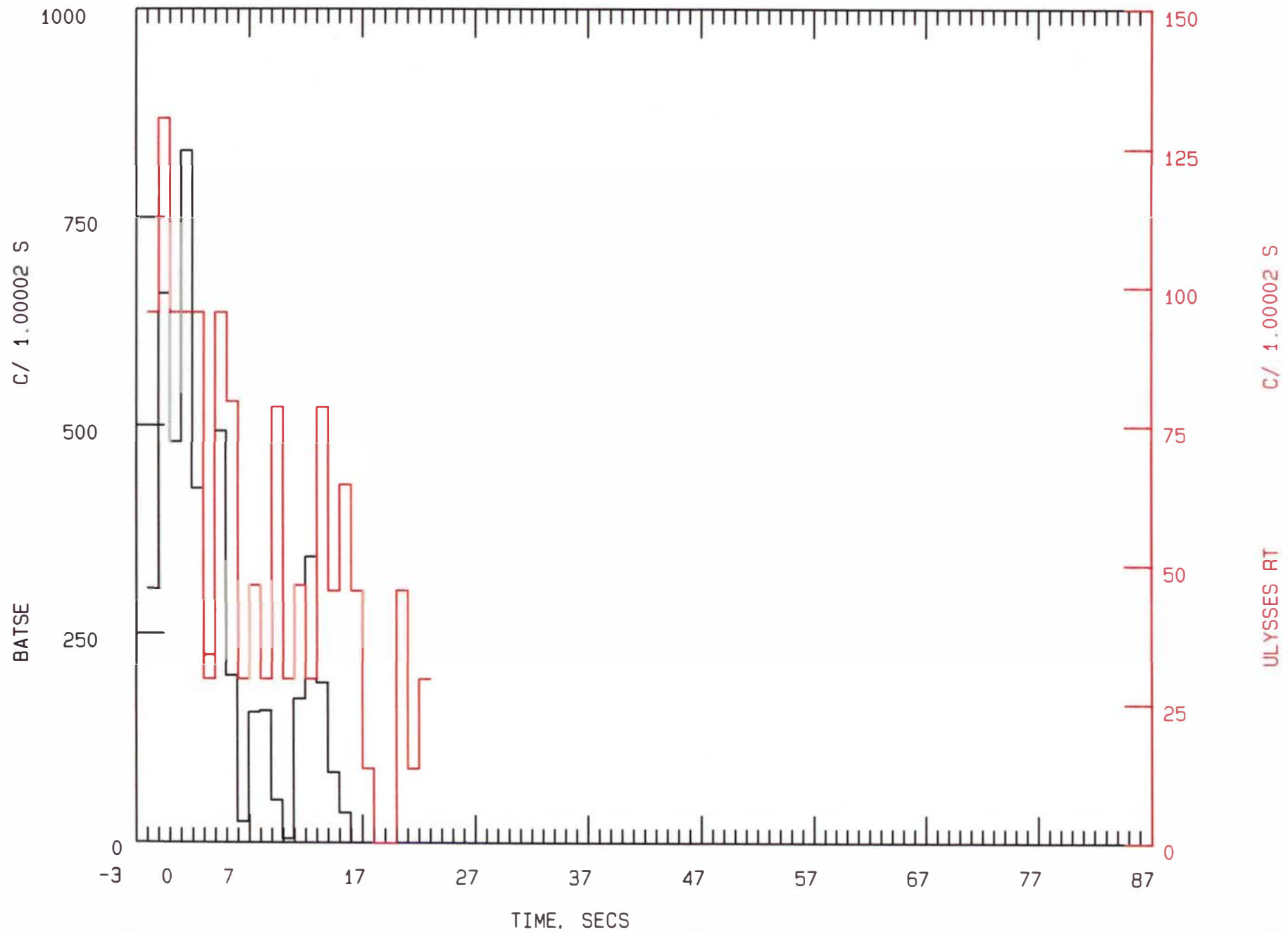
BATSE

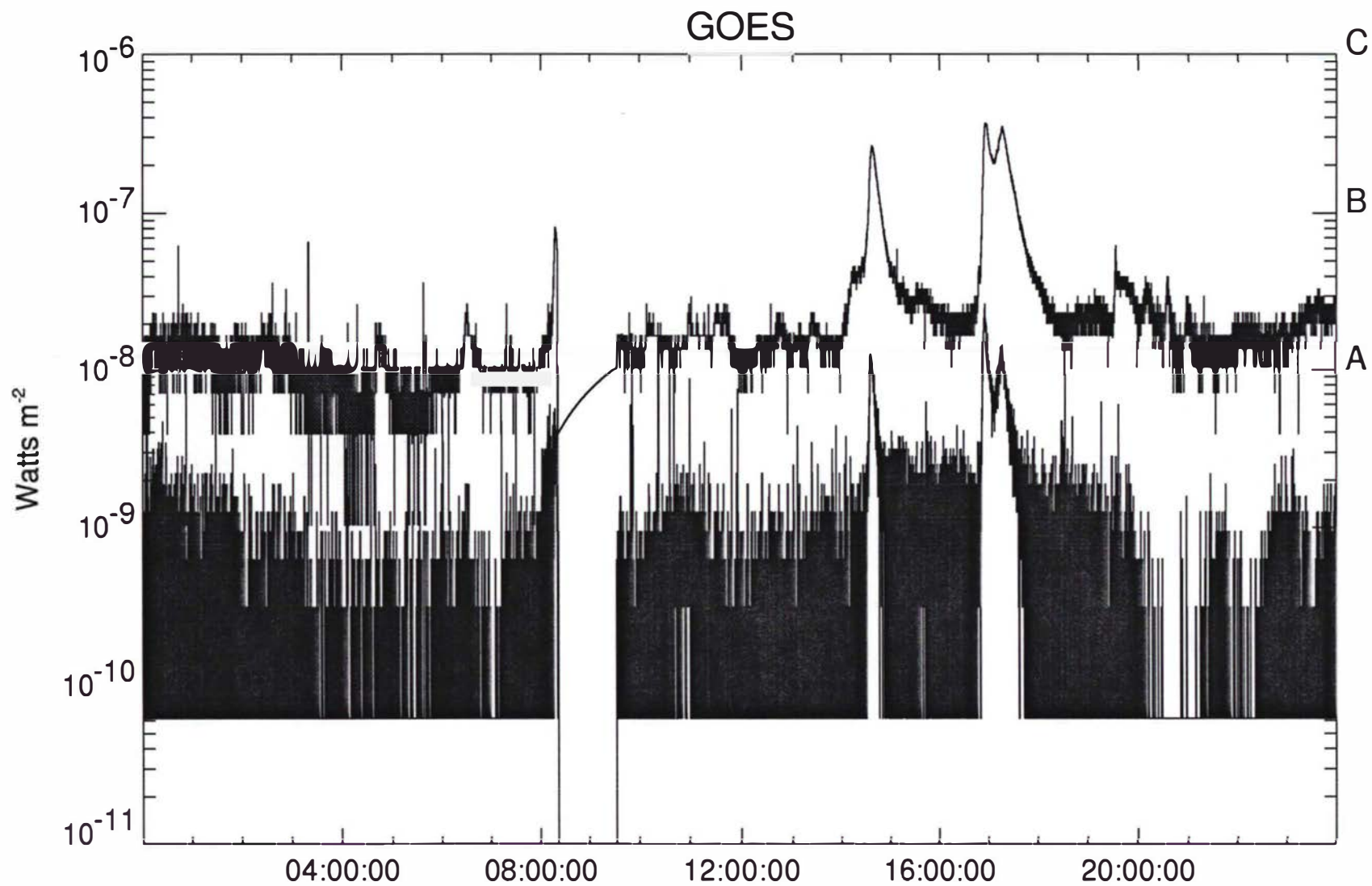
-ULYSSES RT CORRELATION

16/ 9/95

76996.274

16/ 2/96





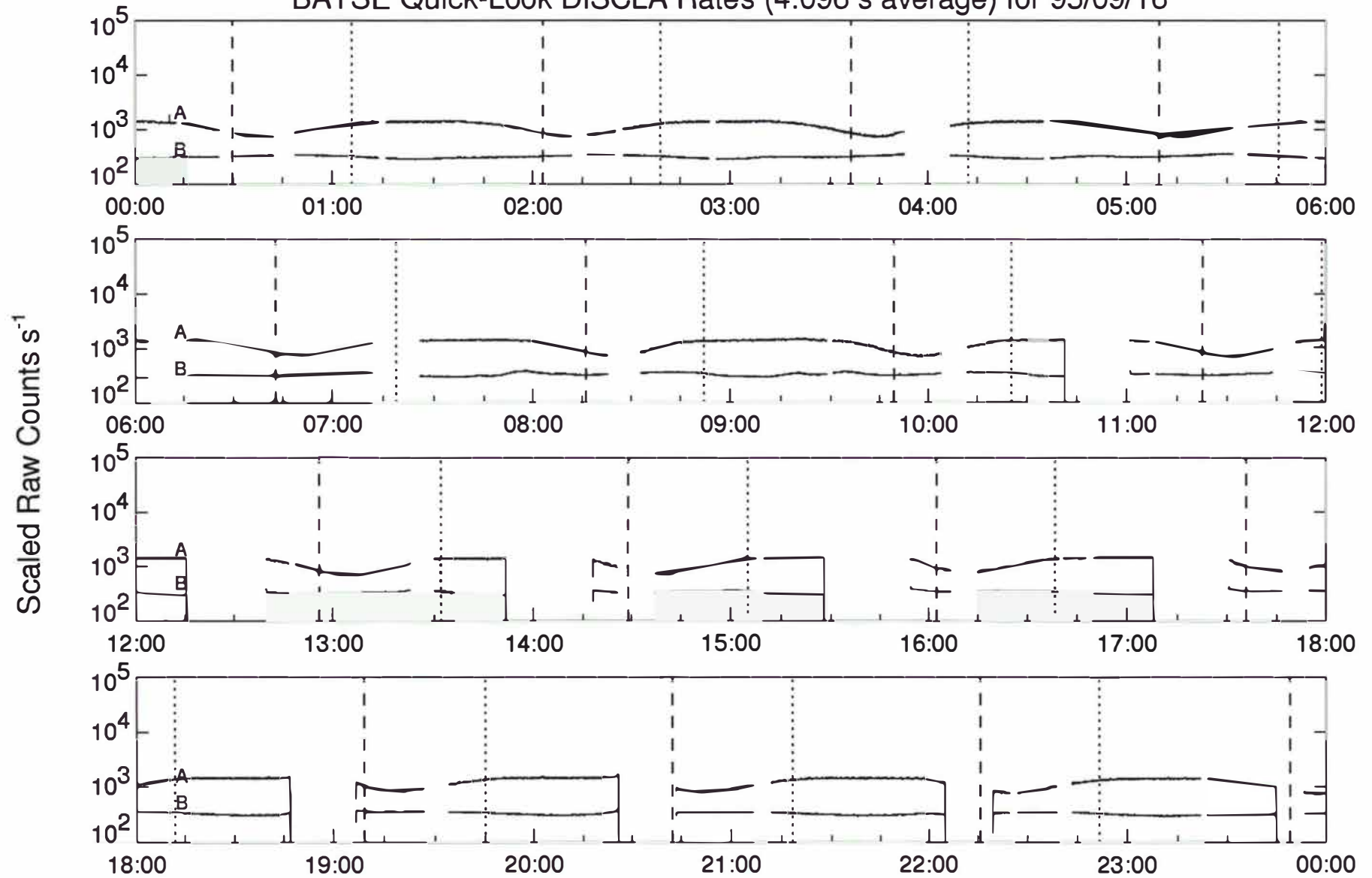
Data Start: 95/09/16, 0000:00

Plot created: 95/09/18, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/16



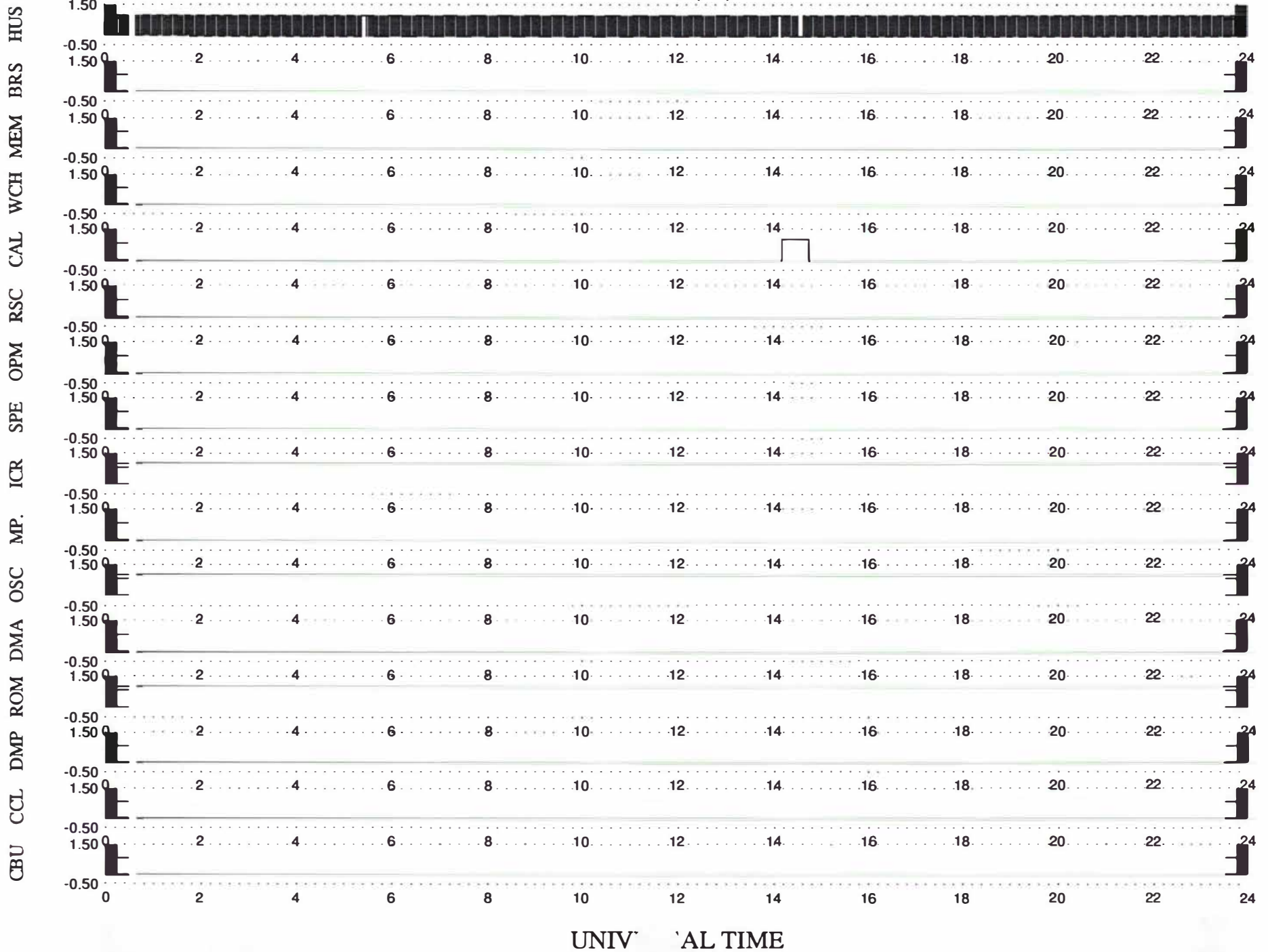
Current Time: 95/09/18, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

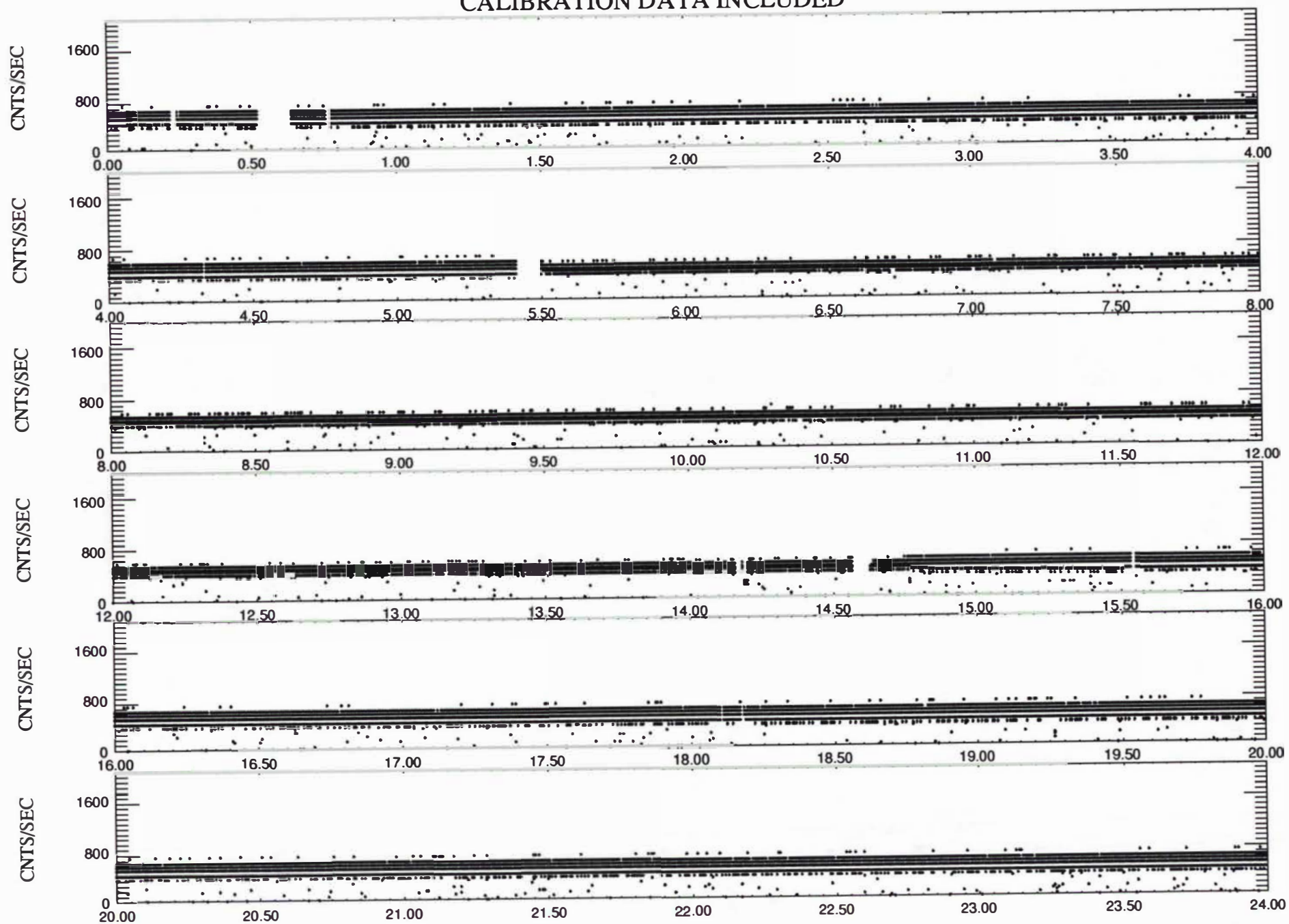
HUS MODES EDR day 259, year 1995 to day 259, year 1995
NO BURST (15)

1/25/96

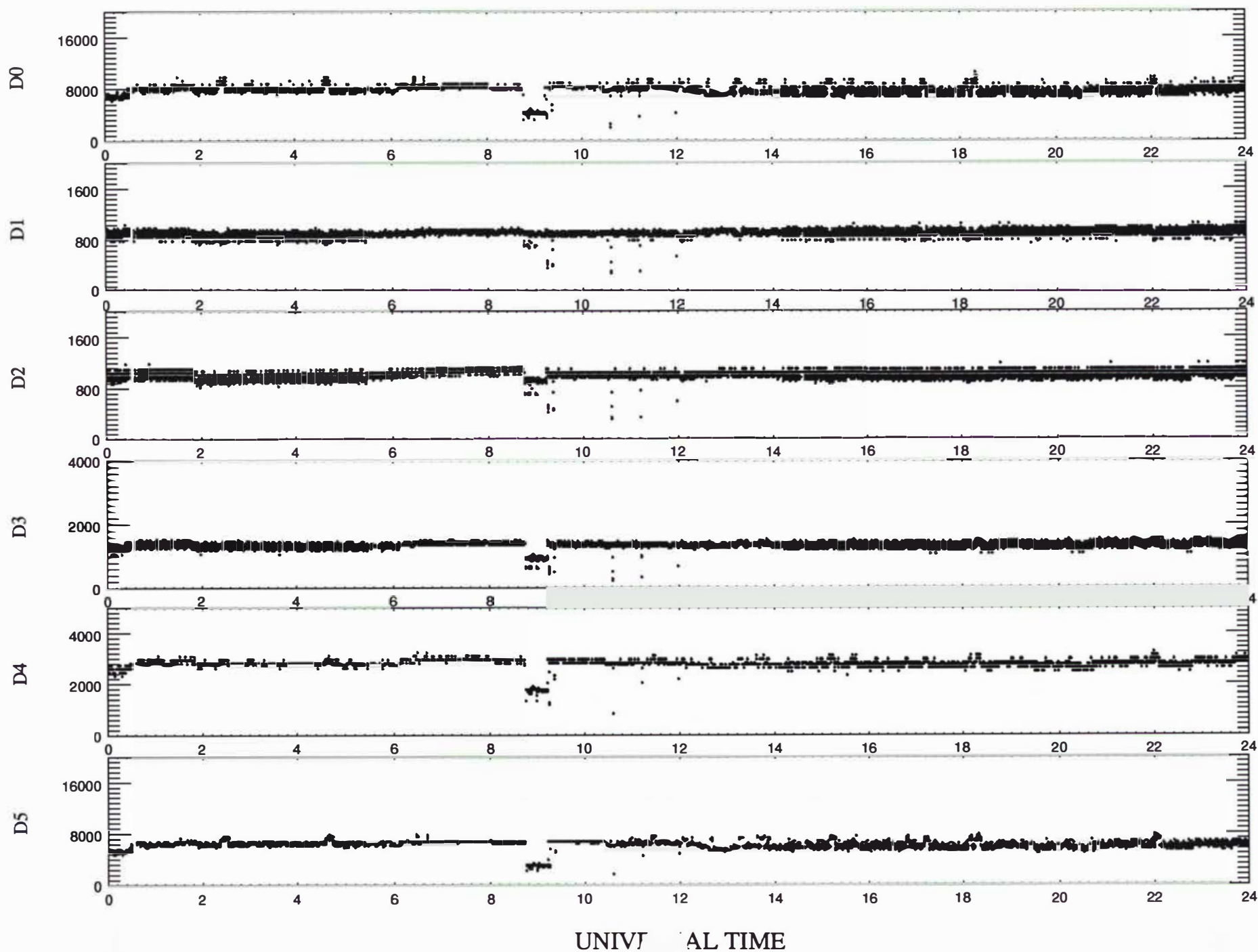


HUS 2A, MODE 1, NOT AVERAGED EDR day 259, year 1995 to day 259, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



From DEAL@SSLLES.MSFC.NASA.GOV Tue Sep 19 11:29 PDT 1995
From: DEAL@SSLLES.MSFC.NASA.GOV
Date: Tue, 19 Sep 1995 13:22:57 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3802

TIME: TJD=9977 SECONDS=28331

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=85.2 AZIMUTH=194.5 ERROR=10.62 DEGREES

COMMENTS:
CYGX-1 FLUCTUATION.

From DEAL@ssl.msfc.nasa.gov Tue Sep 19 11:31 PDT 1995
Date: Tue, 19 Sep 1995 13:31:35 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3803

BATSEARCH PROGRAM

NO

BATSE BURST # 3803
EVENT OF 1995 SEP 17 DAY OF YEAR=260
EVENT CROSSING TIME AT BATSE : 70364. S. OR 19:32:44.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 293.000 -53.000
BATSE PEAK COUNTING RATE: 4400 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 17/ 9/ 95 IS:
RA= 196.651 DEC= 63.784 DIST= 2.629 AU
BATSE-ULYSSES DISTANCE = 393272284. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 41.76 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 978.46 SECS.
CROSSING TIME AT ULYSSES IS 71342. S. OR 19:49:02 +/- 216.56 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 17/ 9/ 95 IS:
RA= 214.039 DEC= -13.978 DIST= 2.092 AU
MARS-BATSE DISTANCE = 312902656. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=107.74 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -318.06 SECS.
CROSSING TIME AT MARS IS 70046. S. OR 19:27:25 +/- 167.76 SECONDS

BATSE BURST TRIGGER

NO.: 3803

TIME: TJD=9977 SECONDS=70364

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=60.9 AZIMUTH=283.8 ERROR=10.3 DEGREES

COMMENTS:

BURST LASTING ~ 0.05 S. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3803	950917	9977	70364	4400	293	-53	.05

25 / 9 / 95

ULYSSES RT

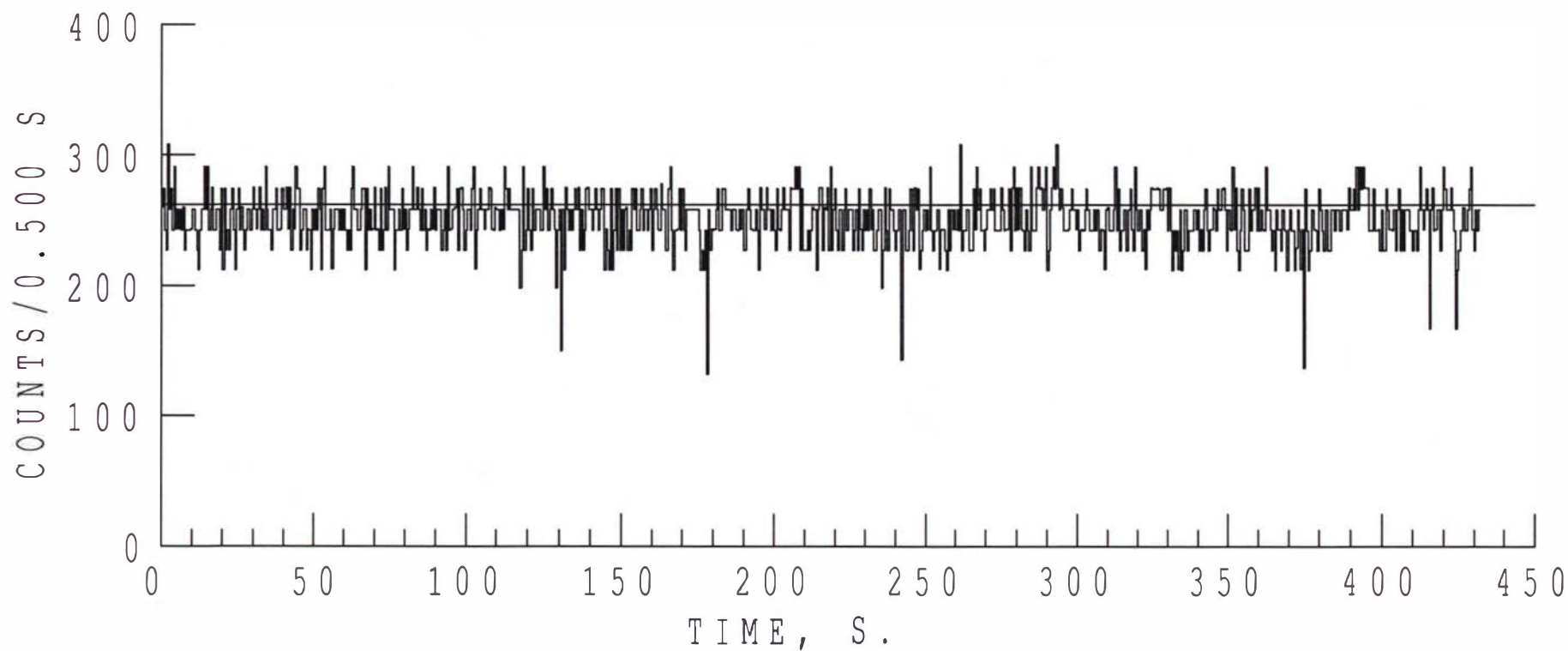
17 / 9 / 95 71136.016 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From DEAL@ssl.msfc.nasa.gov Tue Sep 19 11:33 PDT 1995
Date: Tue, 19 Sep 1995 13:32:57 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3804

BATSEARCH PROGRAM

BATSE BURST # 3804
EVENT OF 1995 SEP 17 DAY OF YEAR=260
EVENT CROSSING TIME AT BATSE : 85659. S. OR 23:47:39.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 340.000 -2.000
BATSE PEAK COUNTING RATE: 2000 C/S

NO

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 17/ 9/ 95 IS:
RA= 196.730 DEC= 63.732 DIST= 2.630 AU
BATSE-ULYSSES DISTANCE = 393458717. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 67.31 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 506.31 SECS.
CROSSING TIME AT ULYSSES IS 86165. S. OR 23:56:05 +/- 267.91 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 17/ 9/ 95 IS:
RA= 214.039 DEC= -13.978 DIST= 2.092 AU
MARS-BATSE DISTANCE = 312902656. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 55.87 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 585.61 SECS.
CROSSING TIME AT MARS IS 86245. S. OR 23:57:24 +/- 158.89 SECONDS

BATSE BURST TRIGGER

NO.: 3804

TIME: TJD=9977 SECONDS=85659

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=47.7 AZIMUTH=203.2 ERROR=5.9 DEGREES

COMMENTS:

BURST LASTING ~ 25 S. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3804	950917	9977	85659	2000	340	-02	25

25 / 9 / 95

ULYSSES RT

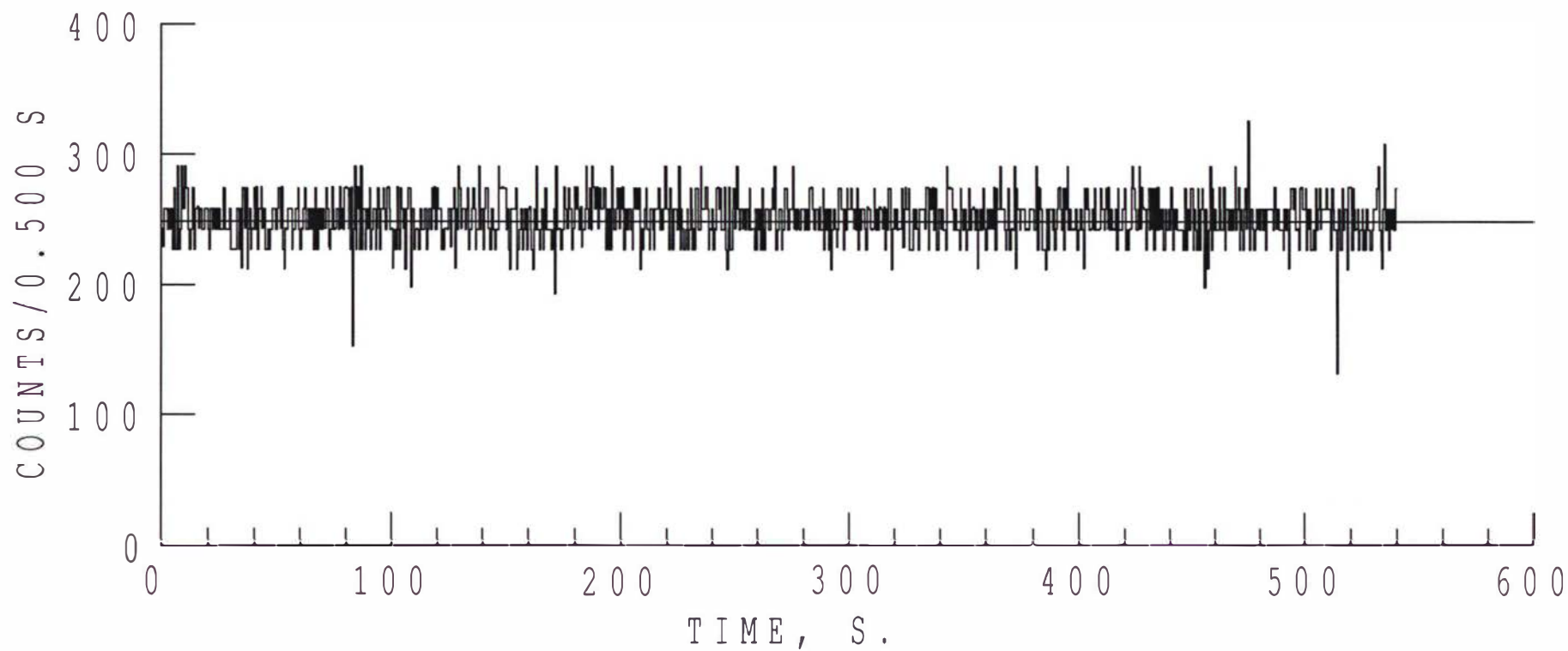
17 / 9 / 95 85896.016 s

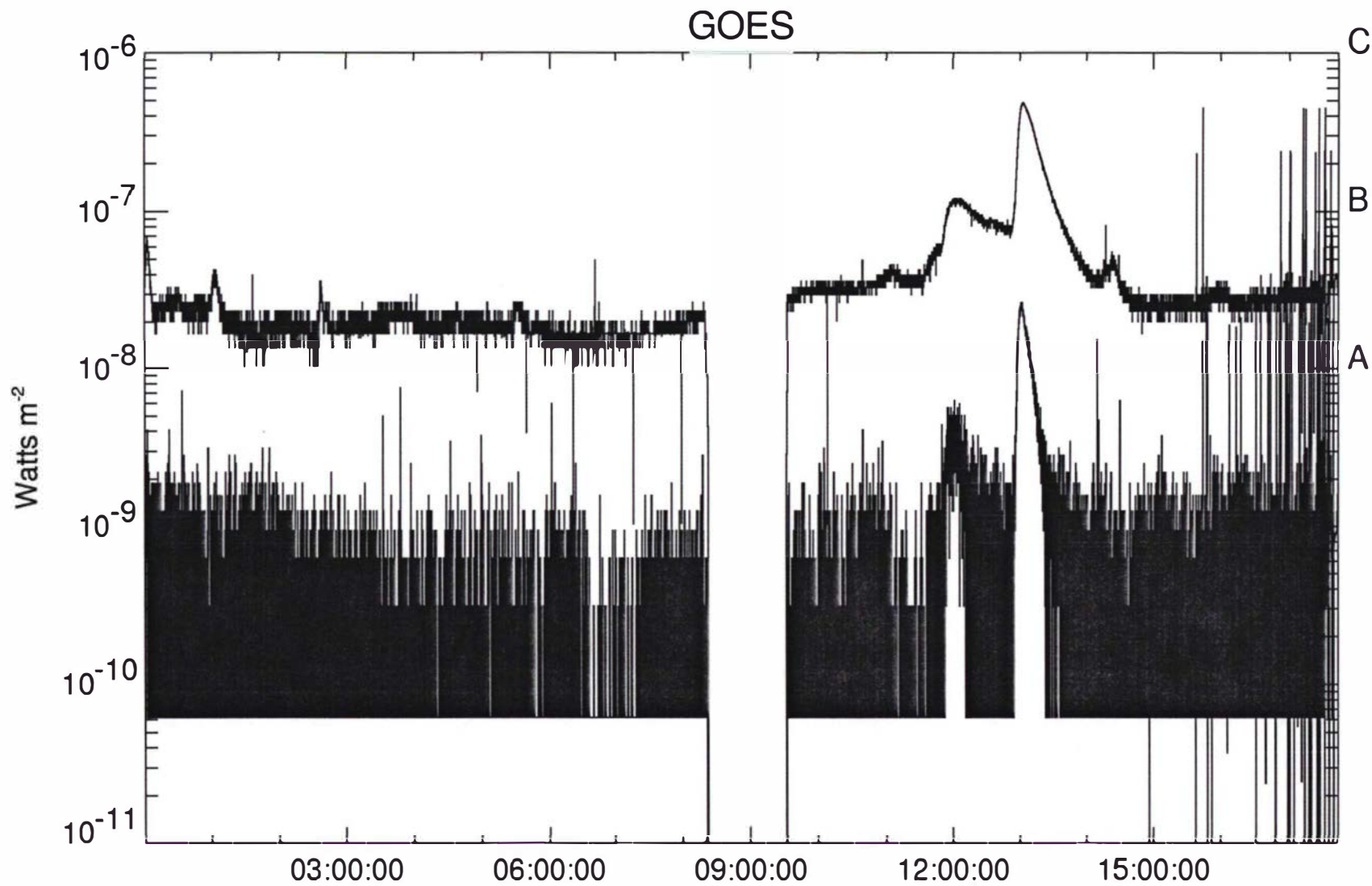
0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS





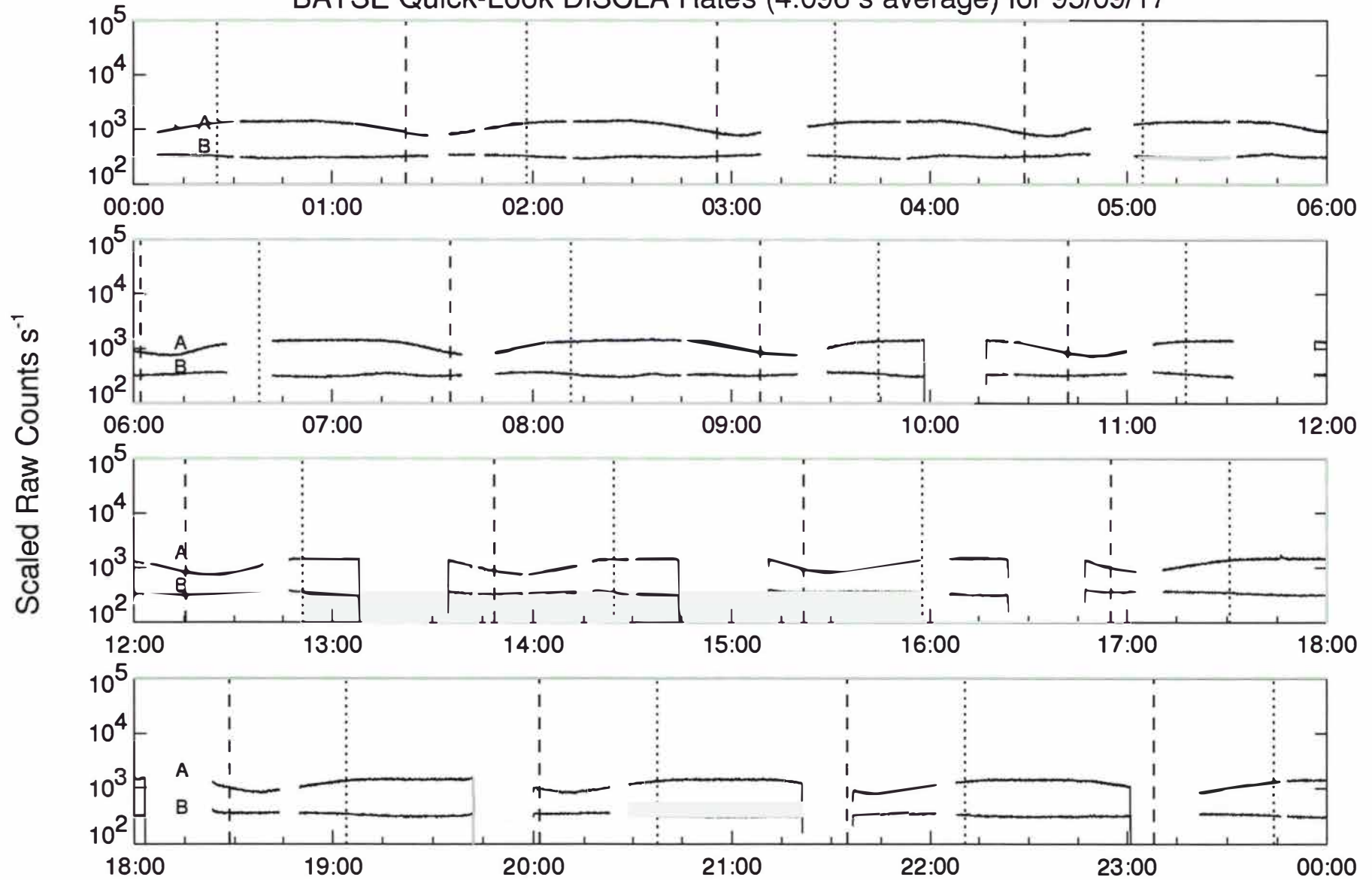
Data Start: 95/09/17, 0000:01

Plot created: 95/09/19, 0529

Channel 1 (1.0 - 8.0 Angstroms)
2 (0.5 - 4.0 Angstroms)

Background not subtracted
Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/17



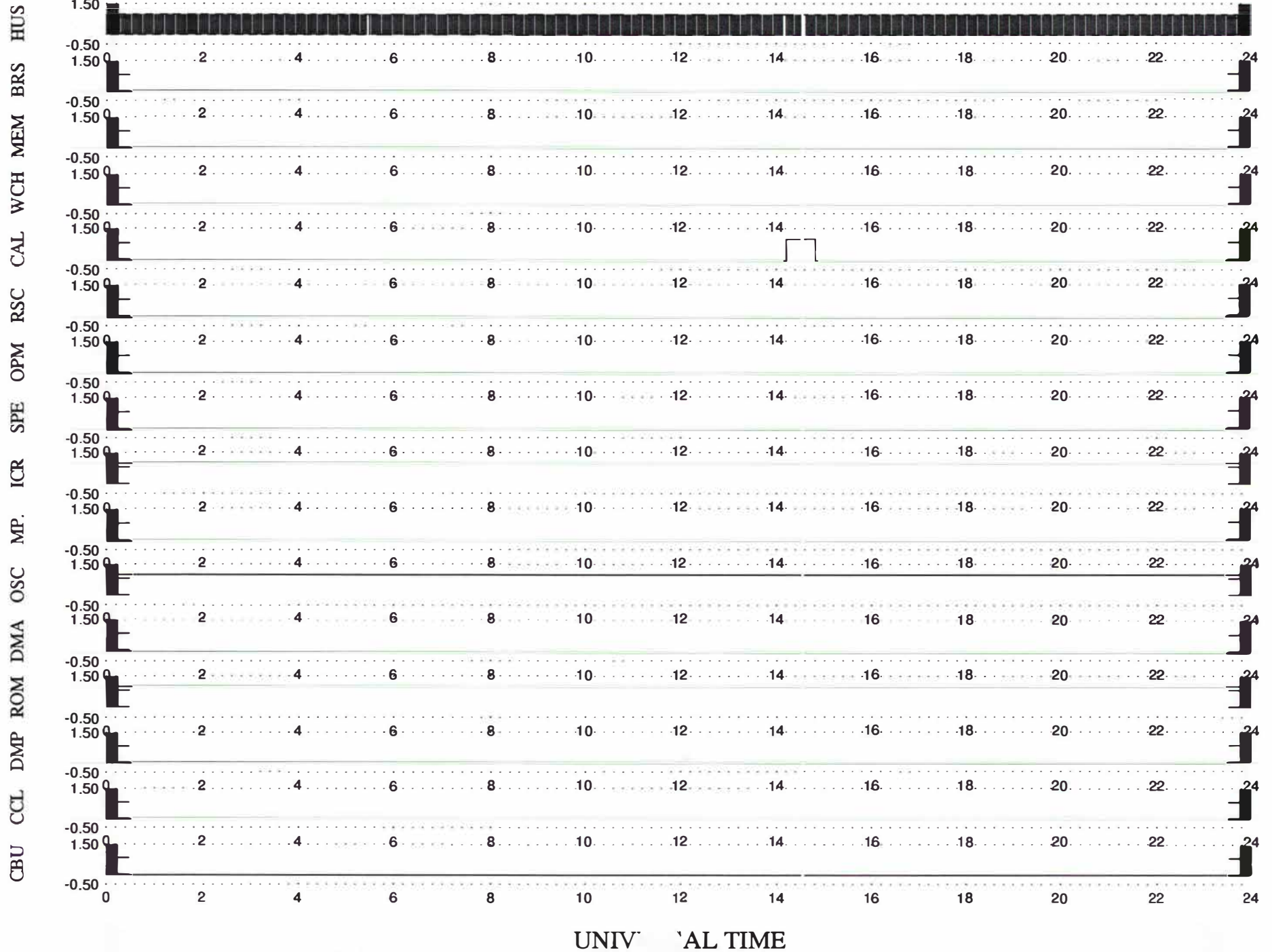
Current Time: 95/09/19, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

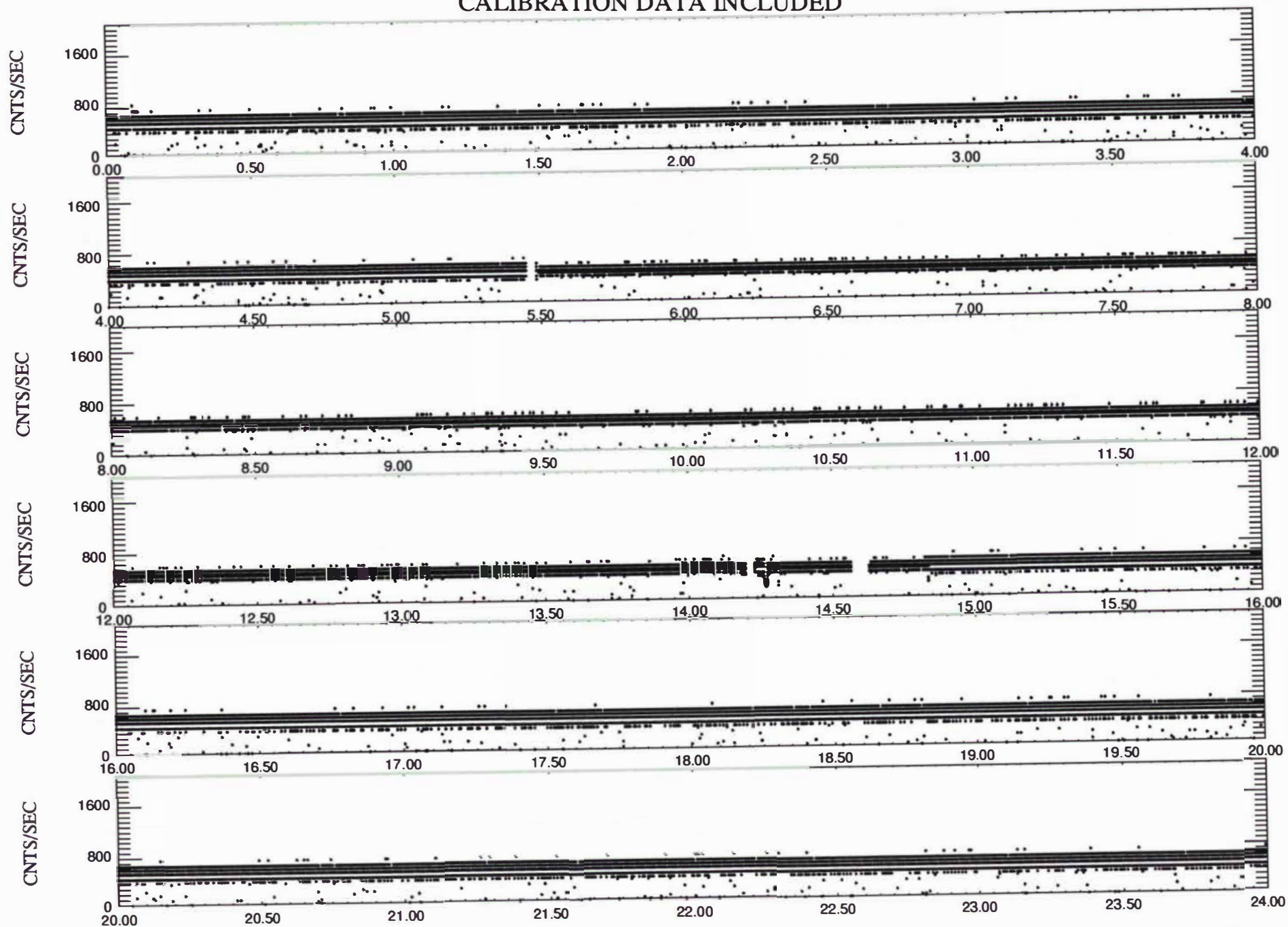
HUS MODES EDR day 260, year 1995 to day 260, year 1995
NO BURST (15)

1/25/96

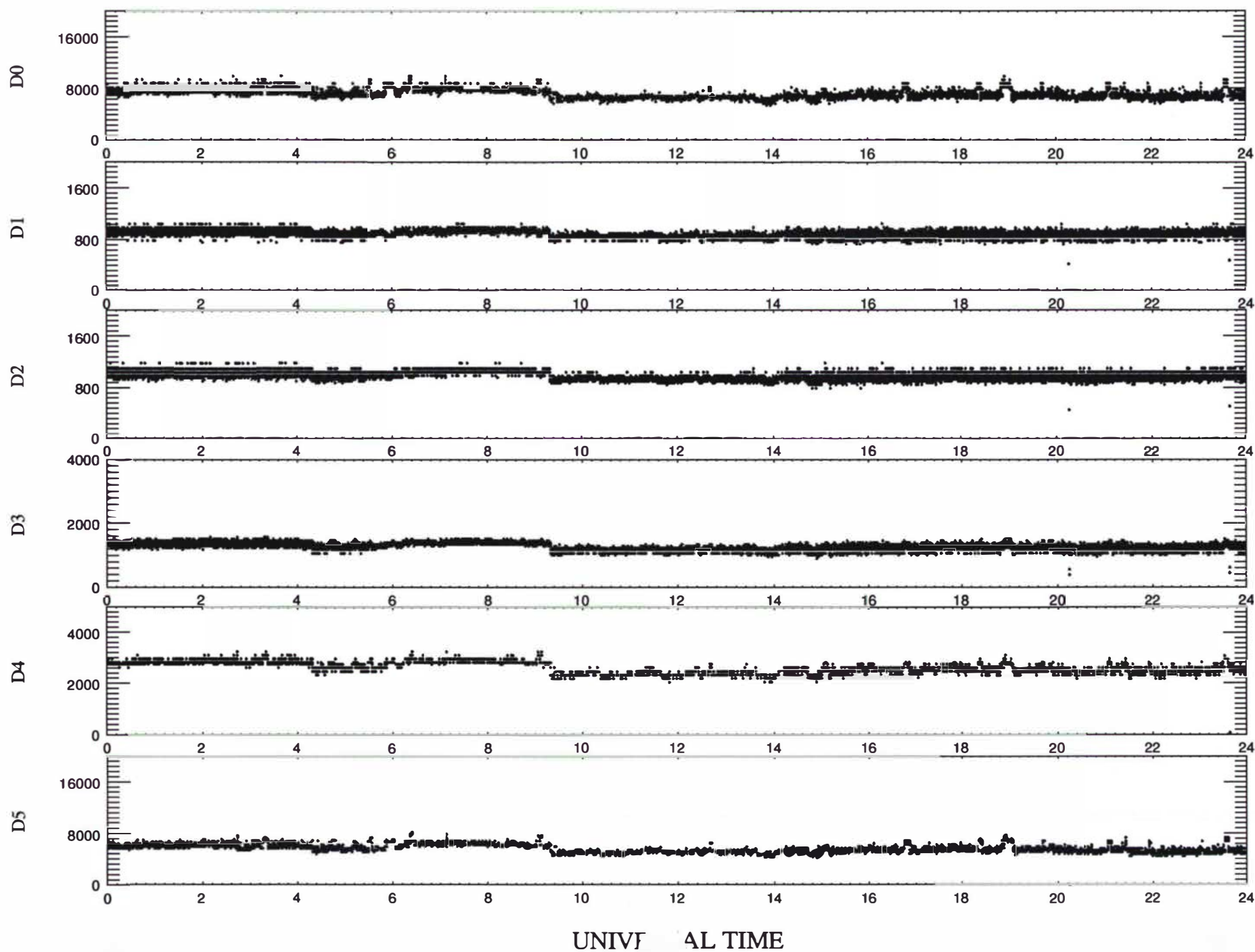


HUS 2A, MODE 1, NOT AVERAGED EDR day 260, year 1995 to day 260, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From WOODSP@ssl.msfc.nasa.gov Tue Sep 19 11:12 PDT 1995
Date: Tue, 19 Sep 1995 13:12:04 -0500 (CDT)
From: WOODSP@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3805

BATSEARCH PROGRAM

N/O

BATSE BURST # 3805
EVENT OF 1995 SEP 18 DAY OF YEAR=261
EVENT CROSSING TIME AT BATSE : 42515. S. OR 11:48:35.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 39.000 54.000
BATSE PEAK COUNTING RATE: 2000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 18/ 9/ 95 IS:
RA= 196.949 DEC= 63.589 DIST= 2.634 AU
BATSE-ULYSSES DISTANCE = 393976359. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=118.83 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -633.75 SECS.
CROSSING TIME AT ULYSSES IS 41881. S. OR 11:38:01 +/- 240.25 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 18/ 9/ 95 IS:
RA= 214.691 DEC= -14.210 DIST= 2.096 AU
MARS-BATSE DISTANCE = 313497536. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 39.93 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 801.84 SECS.
CROSSING TIME AT MARS IS 43317. S. OR 12:01:56 +/- 128.72 SECONDS

BATSE BURST TRIGGER

NO.: 3805

TIME: TJD=9978 SECONDS=42515

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=89.0 AZIMUTH=134.1 ERROR=3.8 DEGREES

COMMENTS:

GRB FRED WITH 40 SEC DURATION. NOT IN CHANNEL 4.

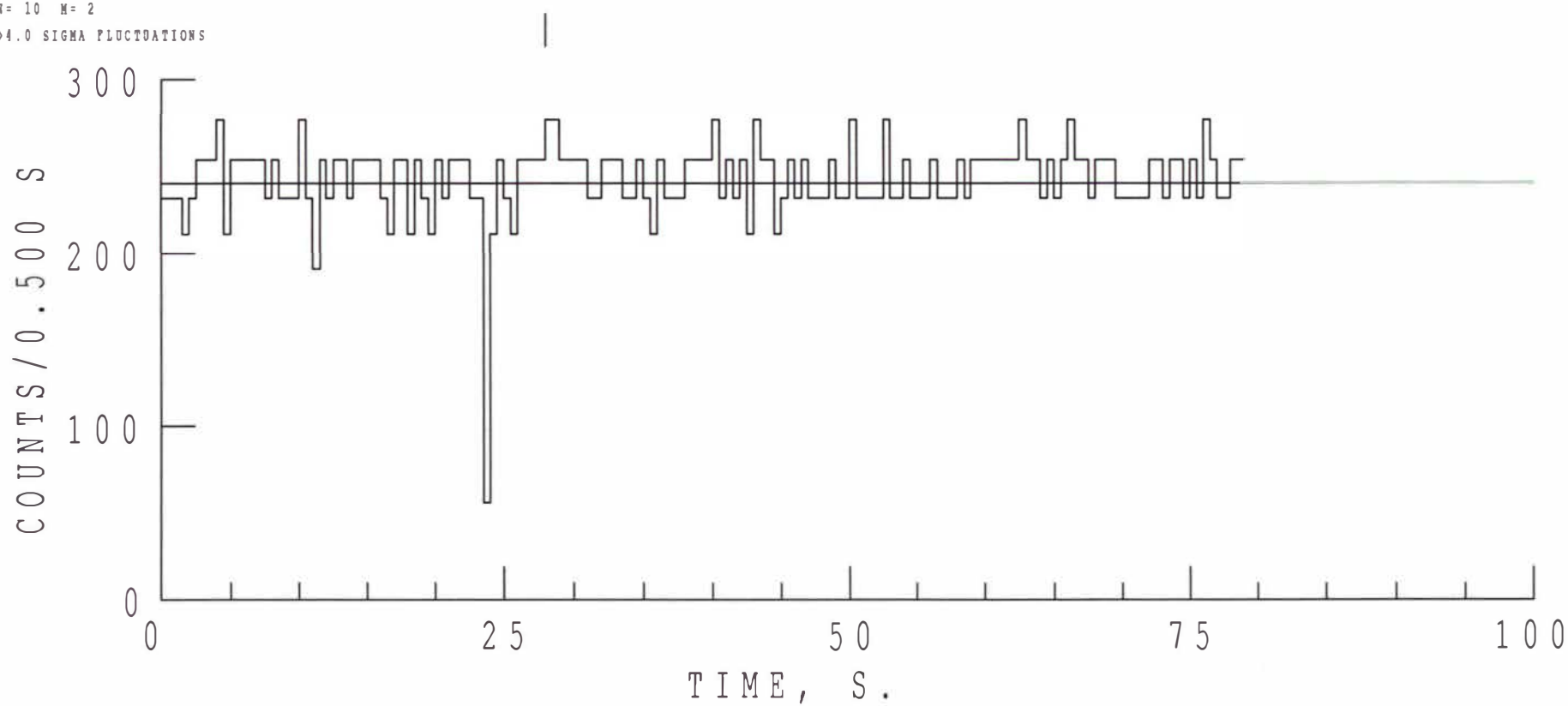
BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3805	950918	9978	42515	2000	039	+54	40

25 / 9 / 95

ULYSSES RT
18 / 9 / 95 42041.254 s
0 - 0 keV

Data gap - re-d.

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



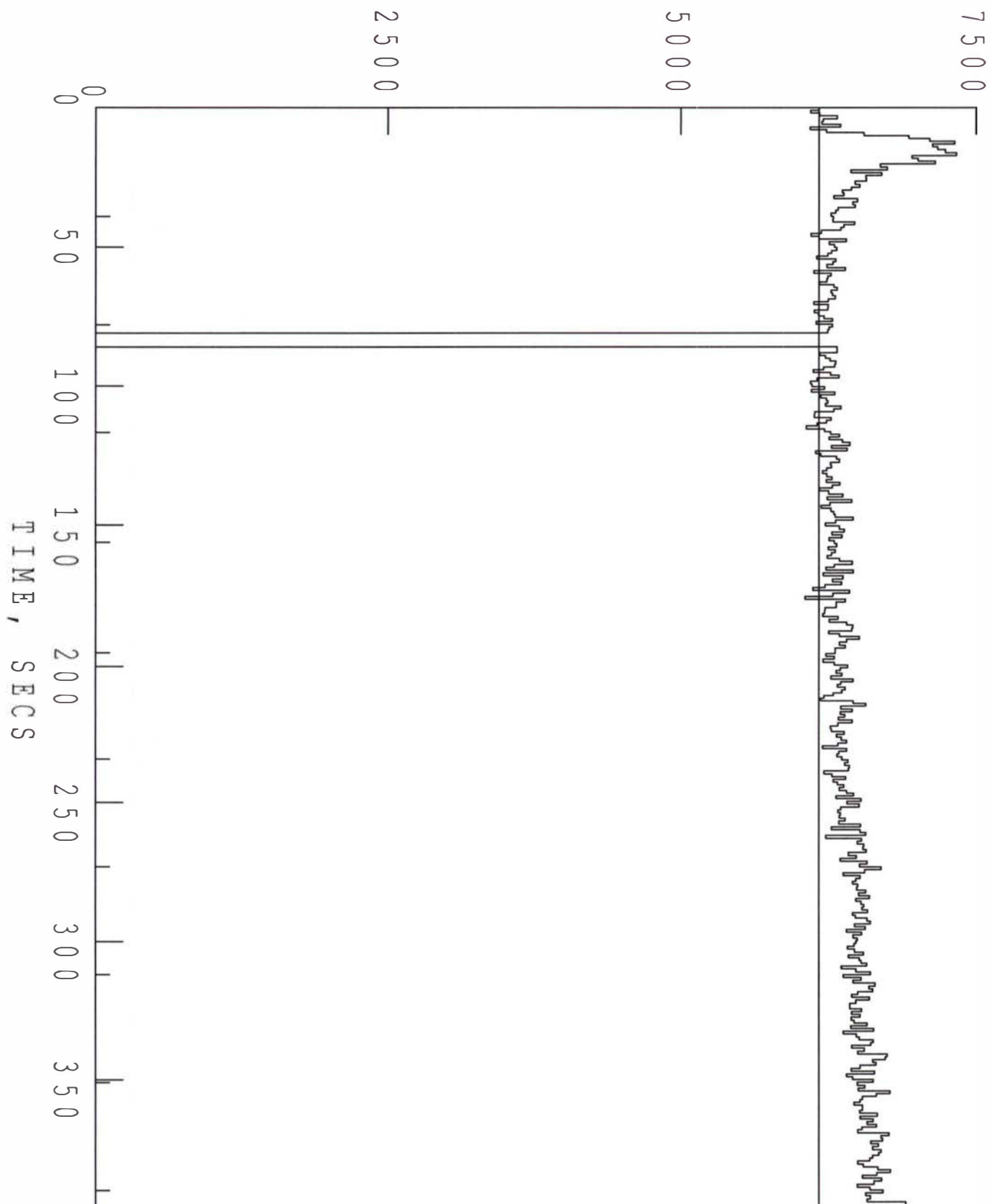
BACODINE

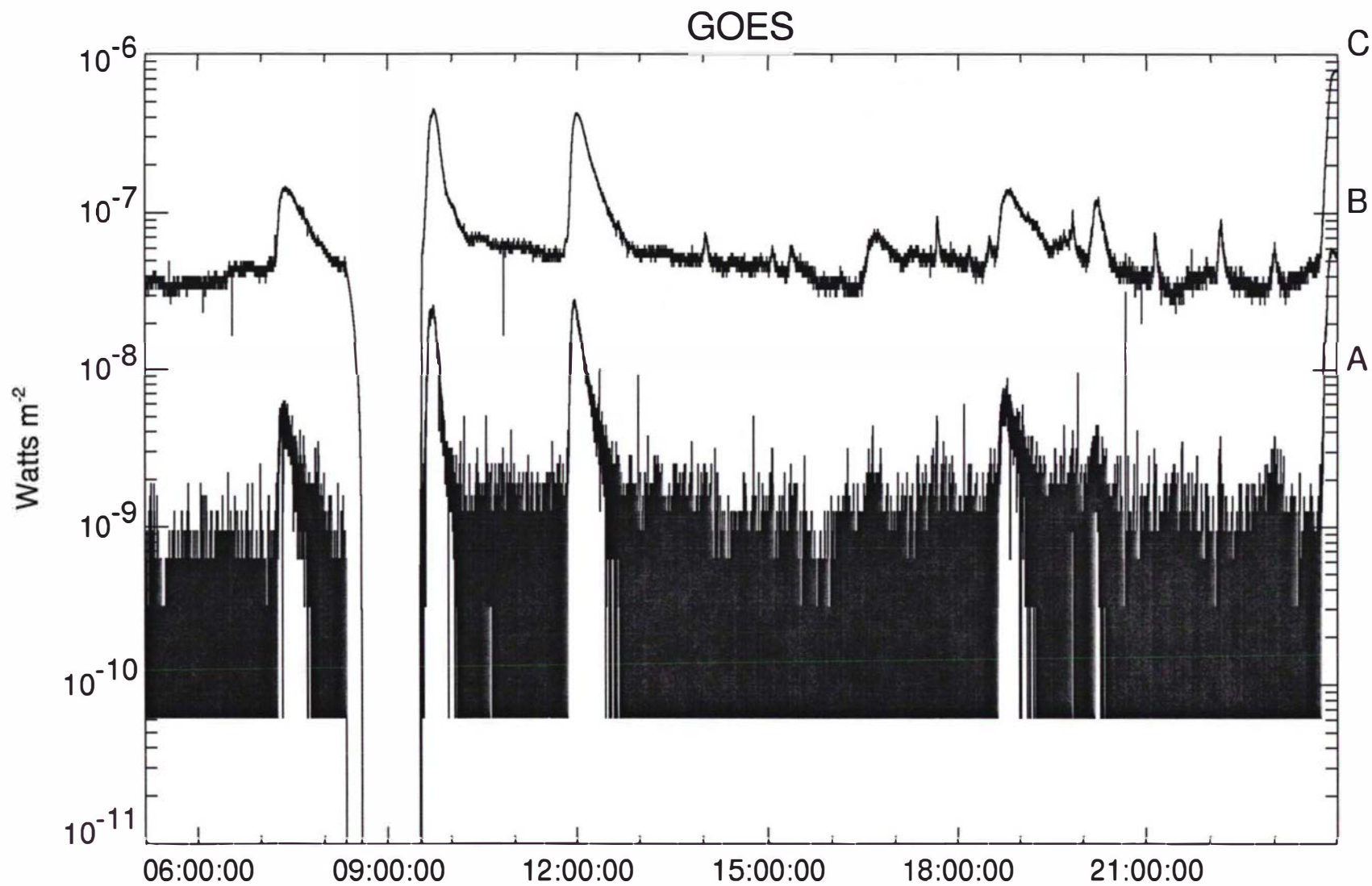
18/09/95

42504.881

25 - 100 keV

COUNTS/1.024 S





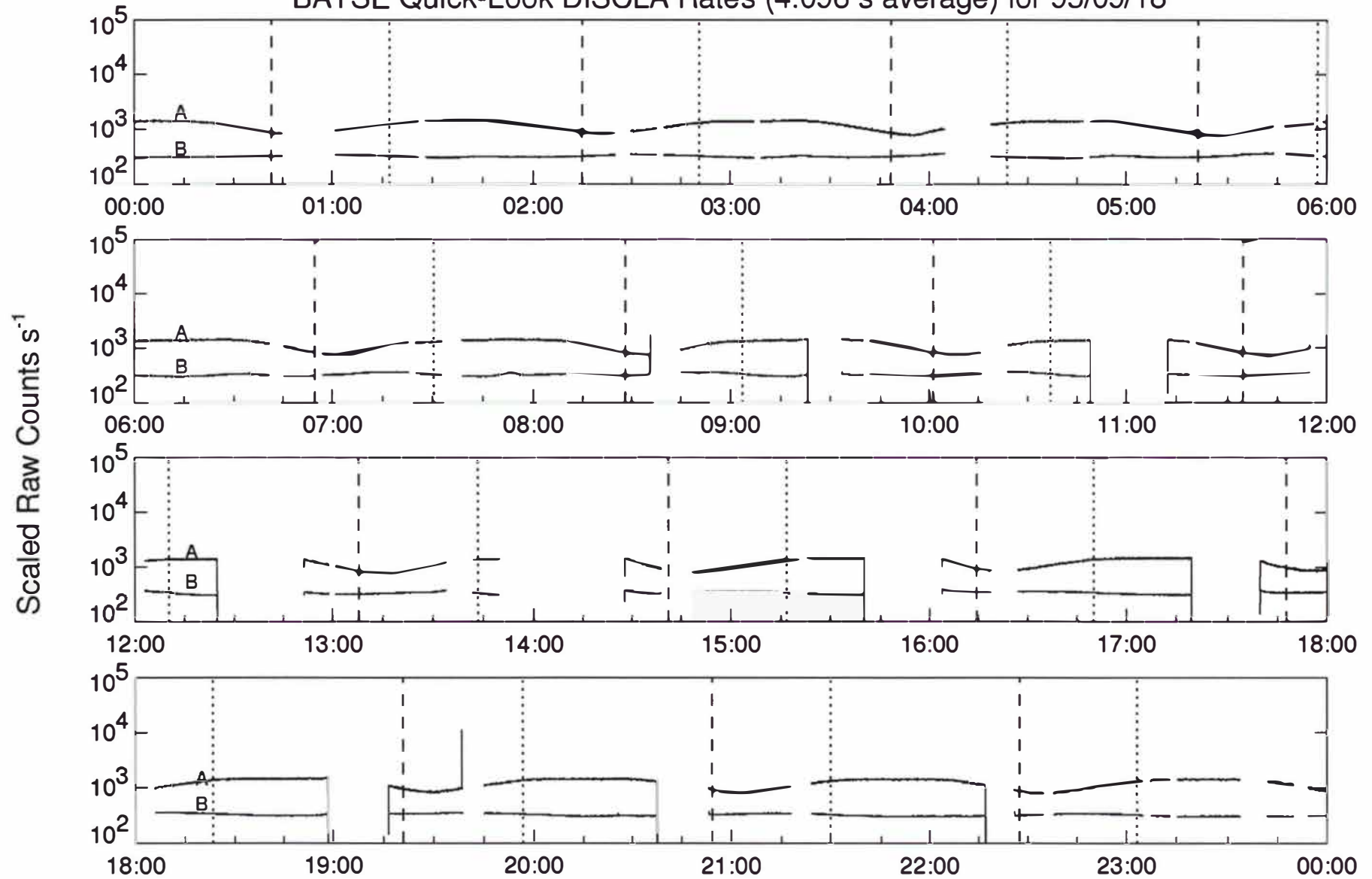
Data Start: 95/09/18, 0509:38

Plot created: 95/09/20, 0528

Channel 1 (1.0 - 8.0 Angstroms)
2 (0.5 - 4.0 Angstroms)

Background not subtracted
Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/18



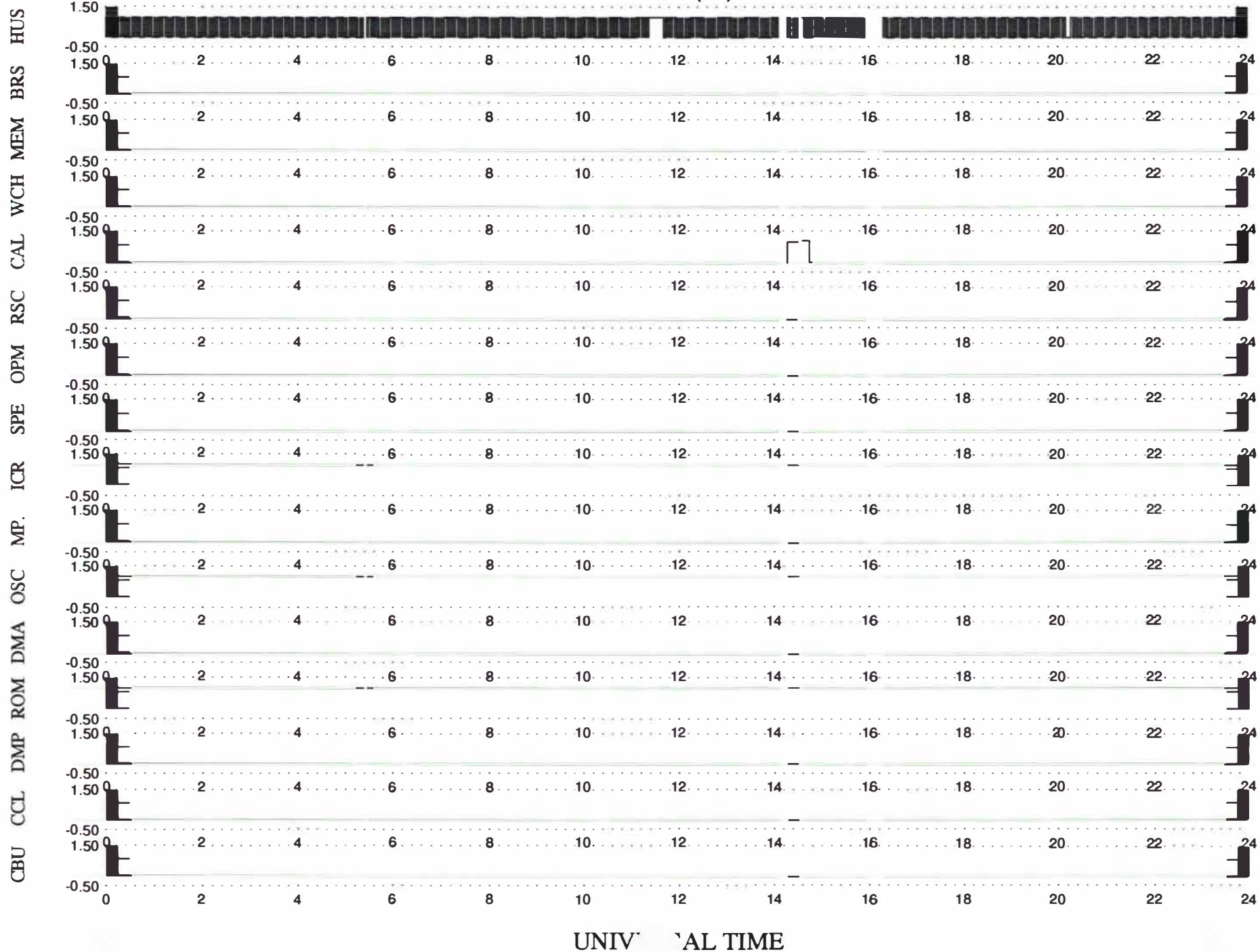
Current Time: 95/09/20, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

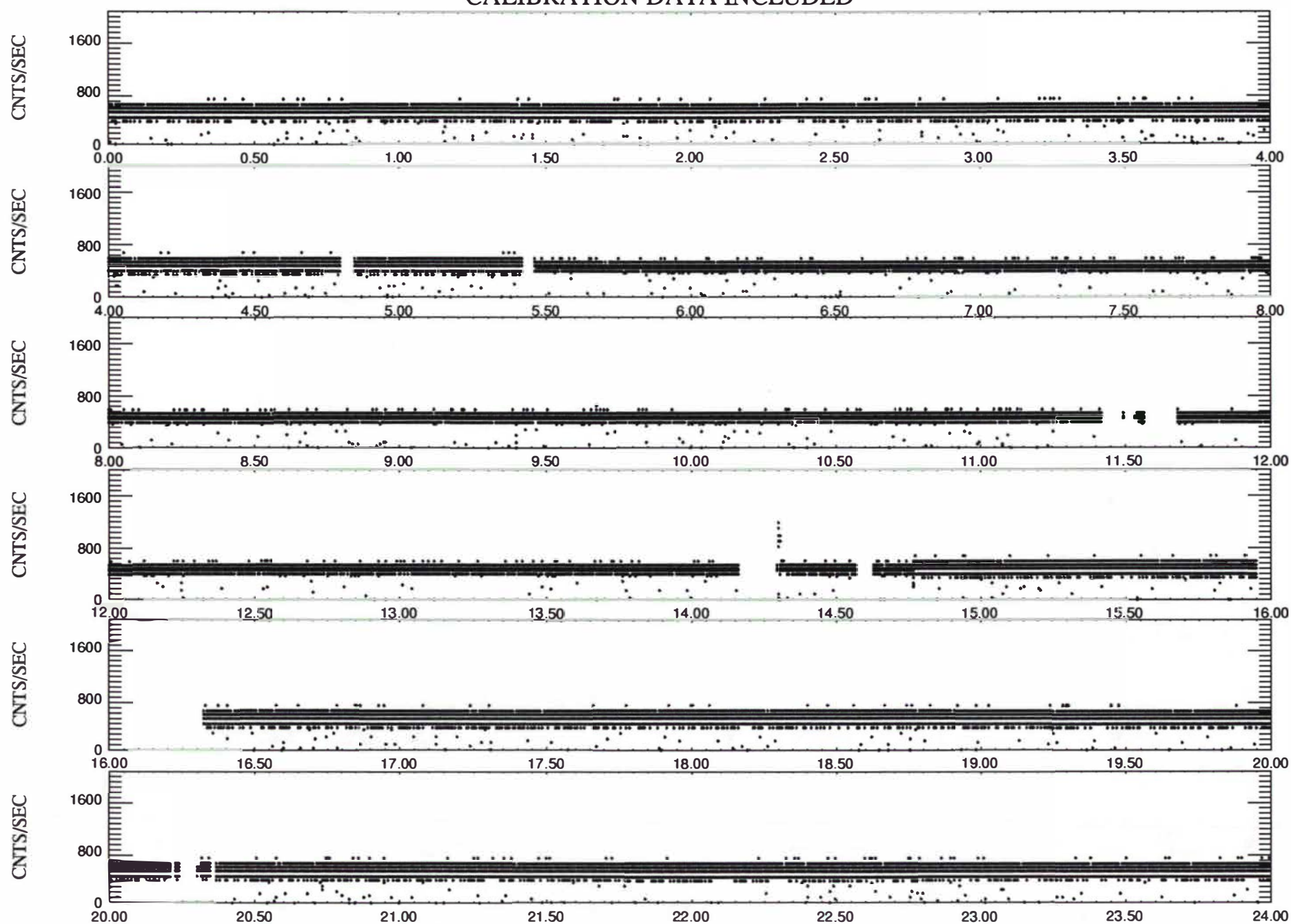
HUS MODES EDR day 261, year 1995 to day 261, year 1995
NO BURST (15)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 261, year 1995 to day 261, year 1995
CALIBRATION DATA INCLUDED

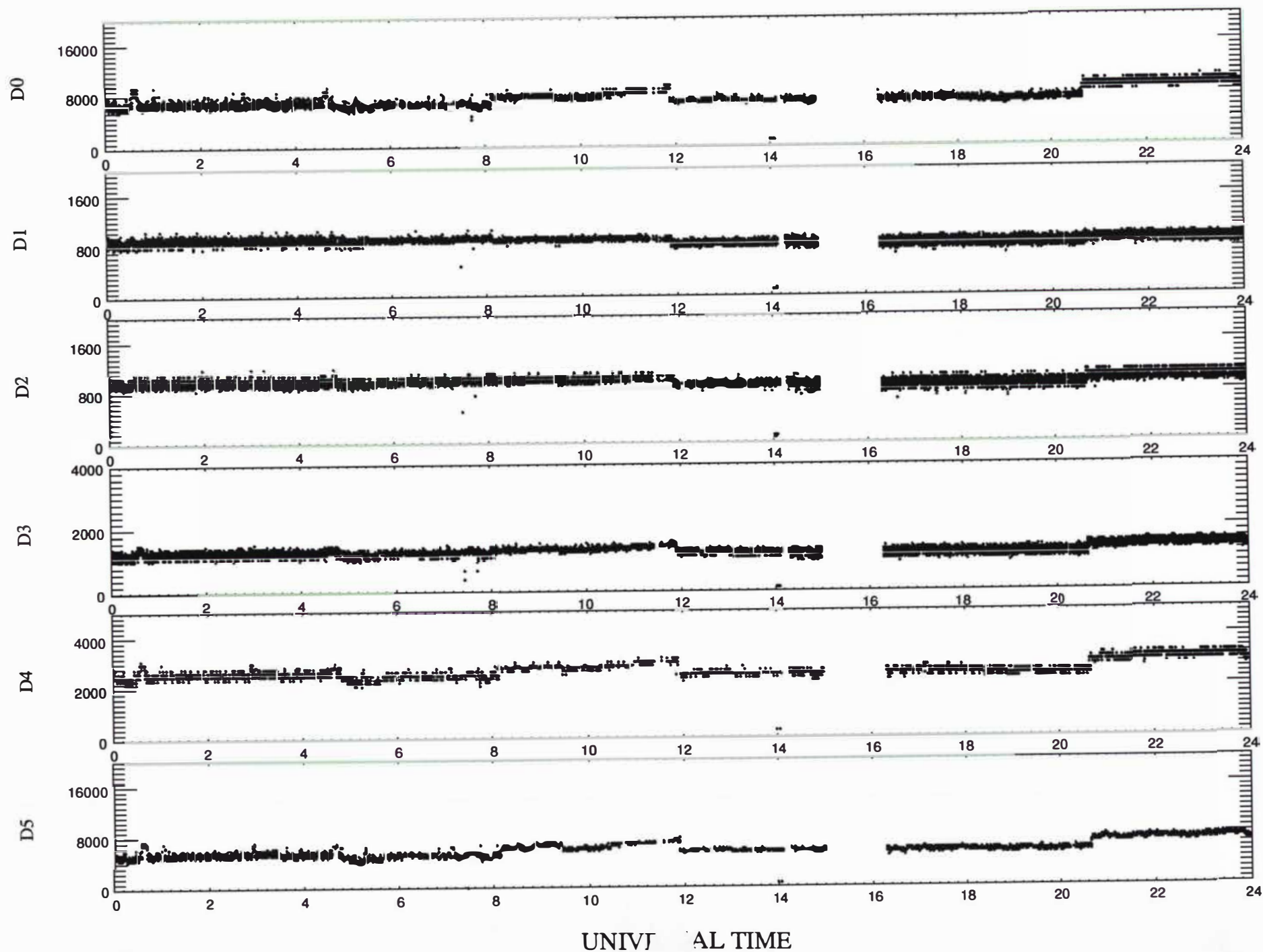
1/25/96



UNIV' CAL TIME

HUS 2B COUNTS / SEC QEDR day 261, year 1995 to day 261, year 1995

9/20/95



From RICHARDSON@SSLLES.MSFC.NASA.GOV Thu Sep 21 09:41 PDT 1995
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
Date: Thu, 21 Sep 1995 11:39:32 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3806

BATSEARCH PROGRAM

BATSE BURST # 3806
EVENT OF 1995 SEP 19 DAY OF YEAR=262
EVENT CROSSING TIME AT BATSE : 51447. S. OR 14:17:27.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 75.000 33.000
BATSE PEAK COUNTING RATE: 12000 C/S

RT

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 19/ 9/ 95 IS:
RA= 197.429 DEC= 63.276 DIST= 2.641 AU
BATSE-ULYSSES DISTANCE = 395106980. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=106.51 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -374.58 SECS.
CROSSING TIME AT ULYSSES IS 51072. S. OR 14:11:12 +/- 263.69 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 19/ 9/ 95 IS:
RA= 215.346 DEC= -14.440 DIST= 2.100 AU
MARS-BATSE DISTANCE = 314086528. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 40.44 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 797.42 SECS.
CROSSING TIME AT MARS IS 52244. S. OR 14:30:44 +/- 130.09 SECONDS

BATSE BURST TRIGGER

NO.: 3806

TIME: TJD=9979 SECONDS=51447

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=84.9 AZIMUTH=101.4 ERROR=0.6 DEGREES

COMMENTS:

GRB. VERY SPIKEY. DUR.~85 SEC. VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3806	950919	9979	51447	12000	075	+33	85

95	7	1	117	23737	23737	3658
95	7	6	121	42735	42735	3662
95	7	11	123	13789	13789	3663
95	7	13	BGR	32133	32176	3664
95	7	30	128	76149	76124	3720
95	8	4	131	7135	07134	3734
95	8	4	133	45377	45376	3735
95	8	8	BGR	13023	12974	3745
95	8	9	136	85945	85945	3750
95	8	18	137	5065	05002	3765
95	8	22	140	13751	13749	3767
95	9	4	142	52692	52688	3776
95	9	9	145	85473	85452	3788
95	9	19	151	51465	51447	3806
95	9	21	152	20947	20947	3811
95	9	22	BGR	15495		
95	9	22	BGR	25929		
95	9	26	BGR	63919		
95	10	1	153	41907		
95	10	2	BGR	77583		3843
95	10	4	BGR	83974		
95	10	5	154	14842.112		
95	10	8	156	46287.863		
95	10	10	BGR	11774		
95	10	11	157	77693.094		3860
95	10	13	159	57097.299		
95	10	14	160	13108.167		
95	10	14	161	43561.3		
95	10	16	162	02484.285		3870
95	10	16	BGR	71607		3871
95	10	18	163	19832.069		
95	10	19	64	11712.625		
95	10	19	165	48244.594		3875
95	10	25	167	85239.738		
95	11	2	168	07085.879		
95	11	2	69	21209.015		3891
95	11	2	BGR	28693		
95	11	5	BGR	01745		
95	11	5	170	05868.077		3893
95	11	5	171	46827.808		
95	11	7	BGR	27298		
95	11	11	BGR	34960		
95	11	12	172	66495.244		
95	11	13	173	84358.872		3906
95	11	15	BGR	38929		
95	11	17	175	10123.762		
95	11	18	BGR	82560		
95	11	19	176	29831.402		3912
95	11	19	177	46457.519		
95	11	19		59448		
95	11	21		22280		
95	11	22	179	09841.38		
95	11	22	180	17107.738		
95	11	23	BGR	65408		
95	11	24	BGR	21266		3918
95	11	24	BGR	25132		

 -- T. L. Cline ----- LHEAVX::CLINE

From cline@lheavx.gsfc.nasa.gov Fri Jan 26 13:00 PST 1996
 Date: Fri, 26 Jan 1996 13:00:45 -0800
 Mime-Version: 1.0
 To: KHURLEY@sunspot.ssl.berkeley.edu
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: Improved list; same question.

Dear Kevin,
 I'm making a little progress here, tracking down these events. This is a slightly improved list, with a few more BATSE triggers identified. - TLC

Yr	Mn	Dy	Konus#	Konus Tzero	BATSE Tz, #	Ulysses
94	11	14	BGR	07360	07358 3283	- NO
94	11	19	4	70269.175	70250 3287	R I
94	11	21	6	62700.945	62697 3290	trig.
94	11	25	7	79470.156	79470 3295	R I
94	11	26	BGR	01246	01245 3296	
94	11	26	8	44557.952	44521 3298	trig.
94	11	26	BGR	60860	60861 3299	
94	11	26	9	71809.732	71798 3301	R I
94	11	27	10	52225.68	52217 3303	R I
94	11	28	BGR	56220	56217 3305	
94	12	28	28	27585.915	27581 3330	R I
94	12	29	29	82268.781	82258 3334	R I
95	1	4	31	26319.613	26319 3345	R I
95	1	11	33	17352.241	17263 3351	R I
95	1	11	34	44329	44310 3352	
95	1	17	BGR	05760	05761 3360	
95	1	18	BGR	44574	44589 3364	
95	2	7	BGR	02774	02781 3406	
95	2	8	45	07824	07824 3408	
95	2	10	47	08424	08421 3410	
95	2	11	48	08697	08697 3412	trig.
95	2	11	50	72469	72468 3415	
95	2	21	BGR	74701	74705 3436	
95	2	26	54	53351	53336 3442	
95	3	1	BGR	75731	75761 3448	
95	3	4	56	37661	37657 3453	
95	3	5	58	54309	54304 3458	
95	3	10	BGR	78388	78395 3464	
95	3	25	63	25841	25844 3480	
95	3	25	64	63392	63391 3481	
95	3	27	BGR	26323	26347 3485	
95	3	27	BGR	85672	85671 3486	
95	4	1	69	42647	42642 3488	
95	4	1	70	74635	74634 3489	
95	4	3	71	47985	47987 3491	
95	4	3	72	84828	84826 3492	
95	4	16	BGR	48420	48419 3509	
95	4	18	81	83793	83795 3512	
95	4	25	86	00923	00919 3523	
95	4	30	BGR	54224	54229 3527	
95	5	3	88	66971	66970 3537	
95	5	10	90	28083	28079 3569	
95	5	13	93	81706	81703 3571	
95	5	21	97	25161	25157 3588	
95	5	22	98	23898	23896 3590	
95	5	22	100	85280	85283 3593	
95	5	24	102	14902	14899 3598	
95	6	2	104	25592	25592 3618	
95	6	10	107	6849	06849 3637	
95	6	24	111	84124	84084 3648	
95	6	25	113	14626	14601 3649	
95	6	29	115	37033	37036 3654	
95	7	1	116	12762	12758 3657	

Date: Feb 19 '98

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

- ☐ Jim Schmidling's stat file correction applied?
- ☐ Final ephemeris used?
- ☐ Final, CDROM data used?
- ☐ Were data checked by Joe Springer for 0.5 s errors?
- ☐ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☐ Is the order of the data in CORREL such that a vernier is done on the data with the best time resolution?

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)?
- ☐ BATSE ephemeris for T_0 ?
- ☐ Error circle position and radius from public catalog used?
- ☐ If MER data were used, is a 30 ms systematic error included?

3. PVO Data

- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?

- ☐ ACCESS database updated?

*Too weak to triangulate. Also,
Ulysses data change time resolution
in middle of burst, and BATSE data
type is TTS*

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

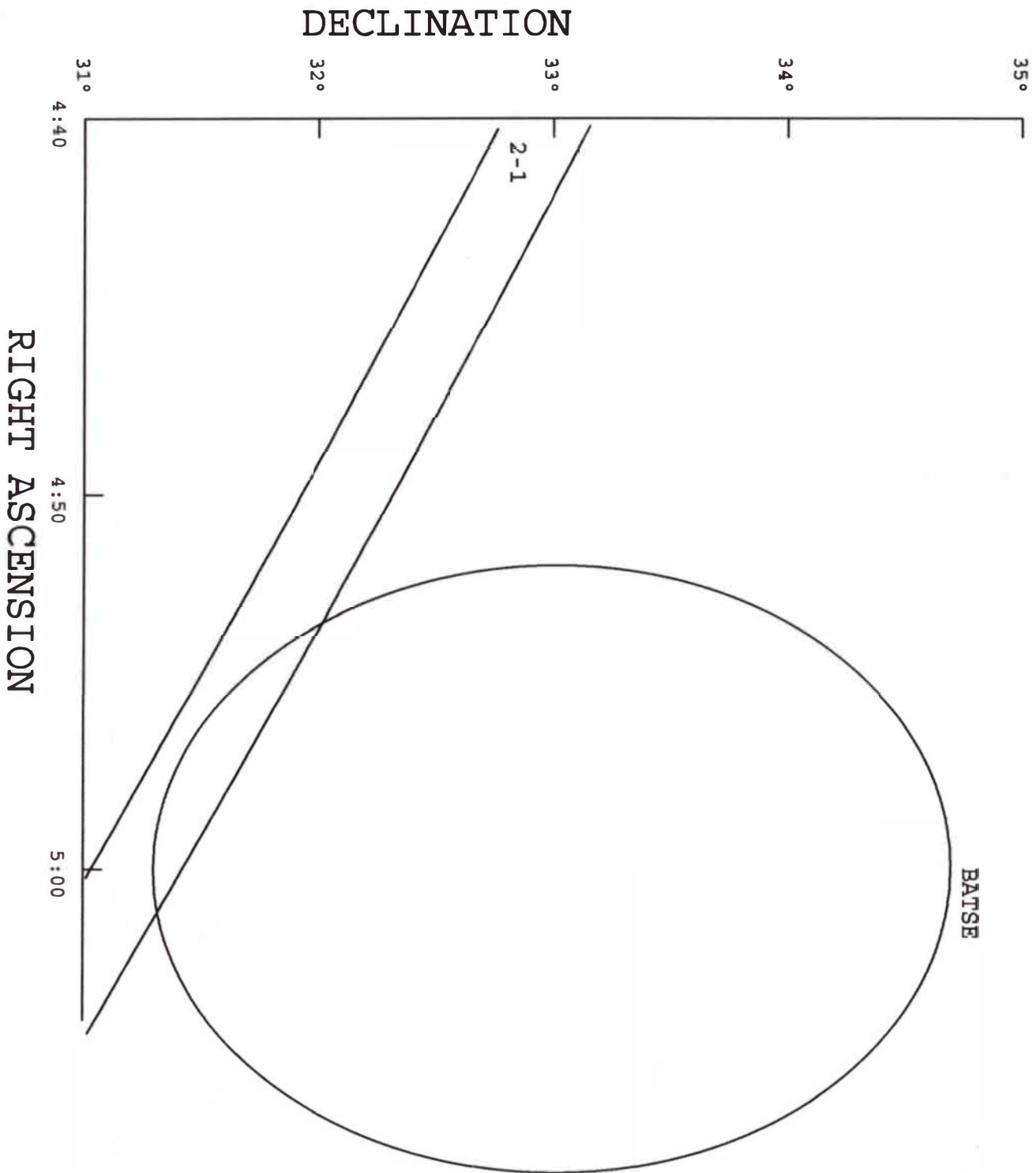
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF SEP 19, 1995 14:12

16 / 2/96



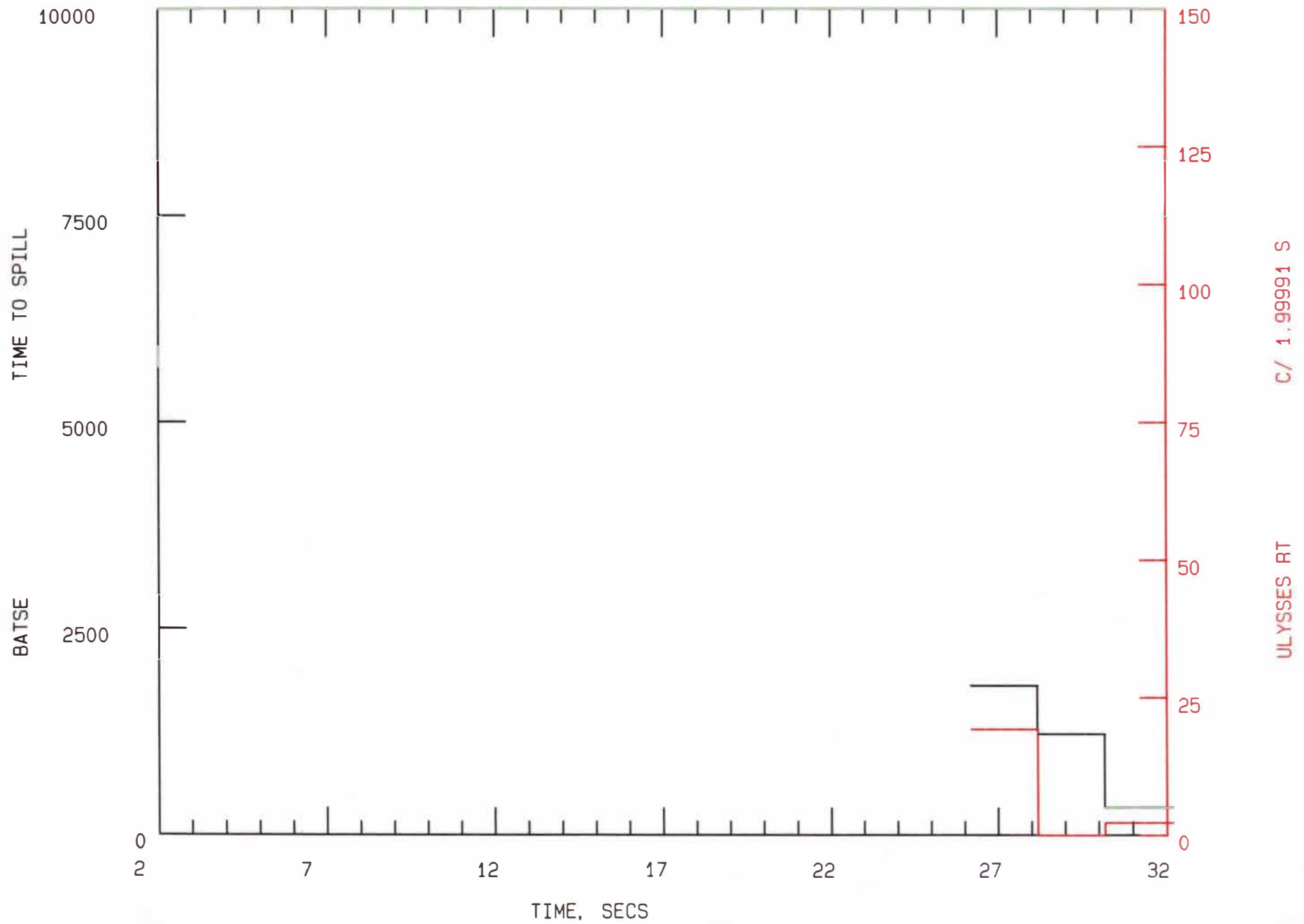
BATSE

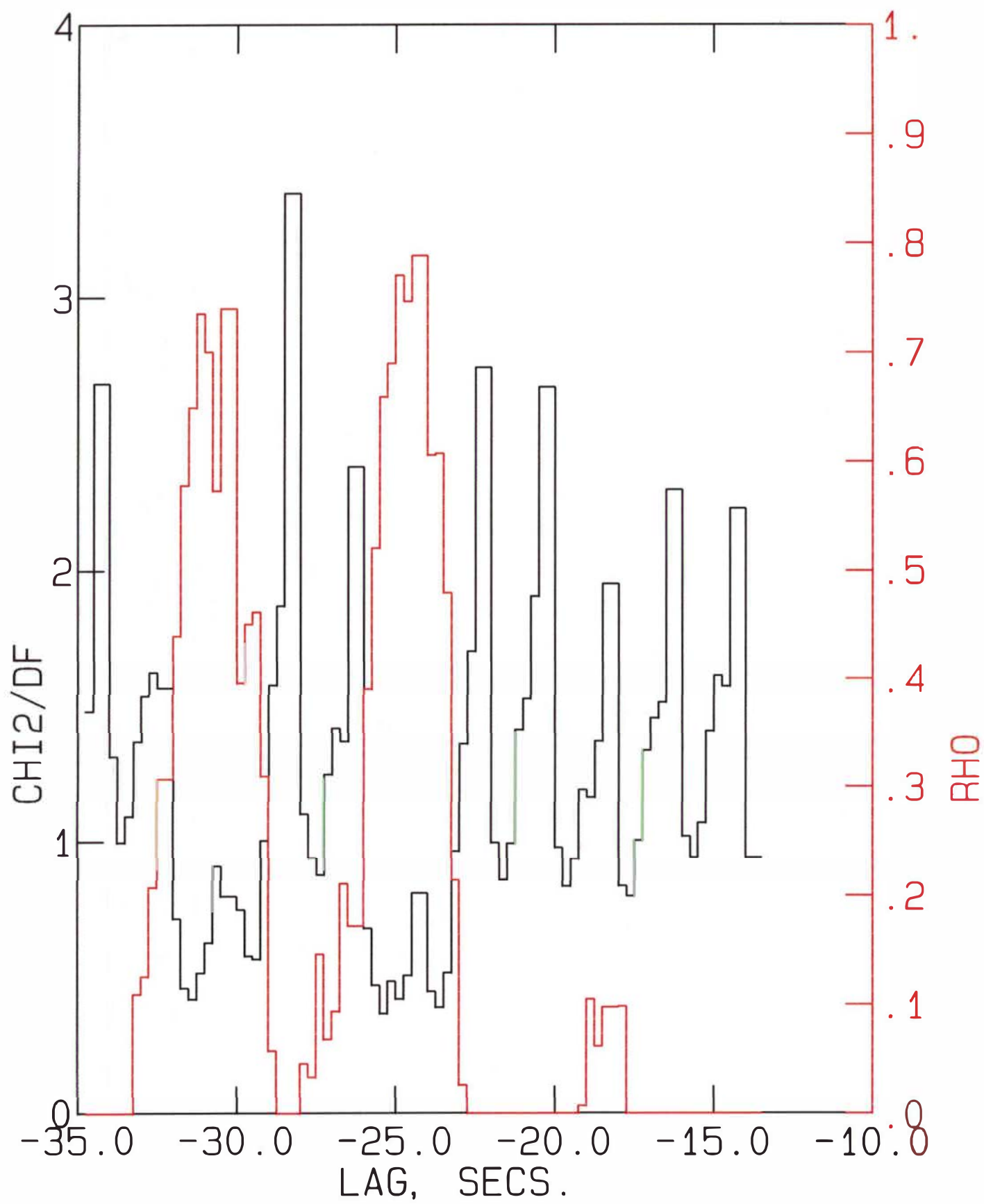
-ULYSSES RT CORRELATION

19/ 9/95

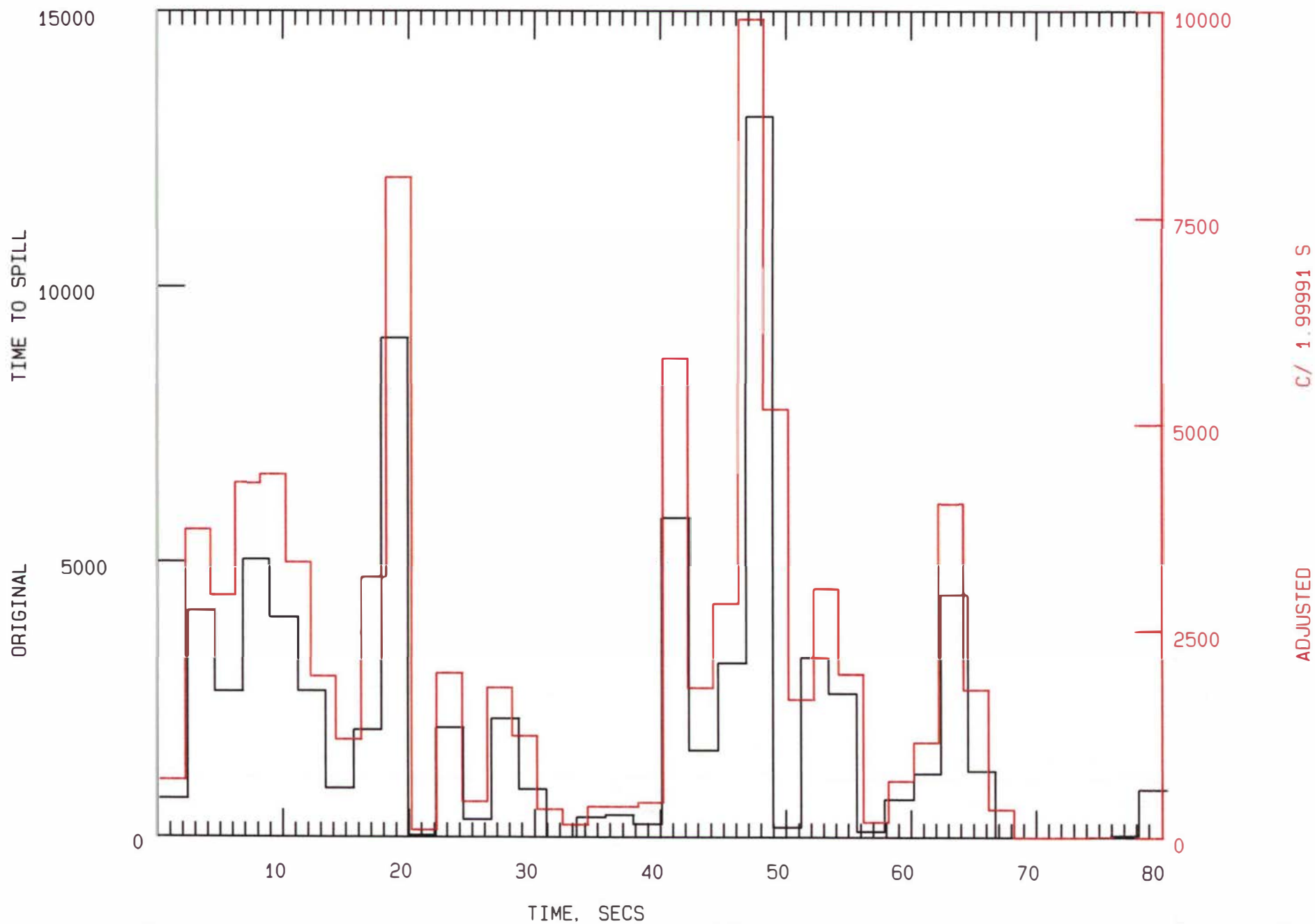
51447.218

16/ 2/96





16/ 2/96



ULYSSES RT

16 / 2 / 96

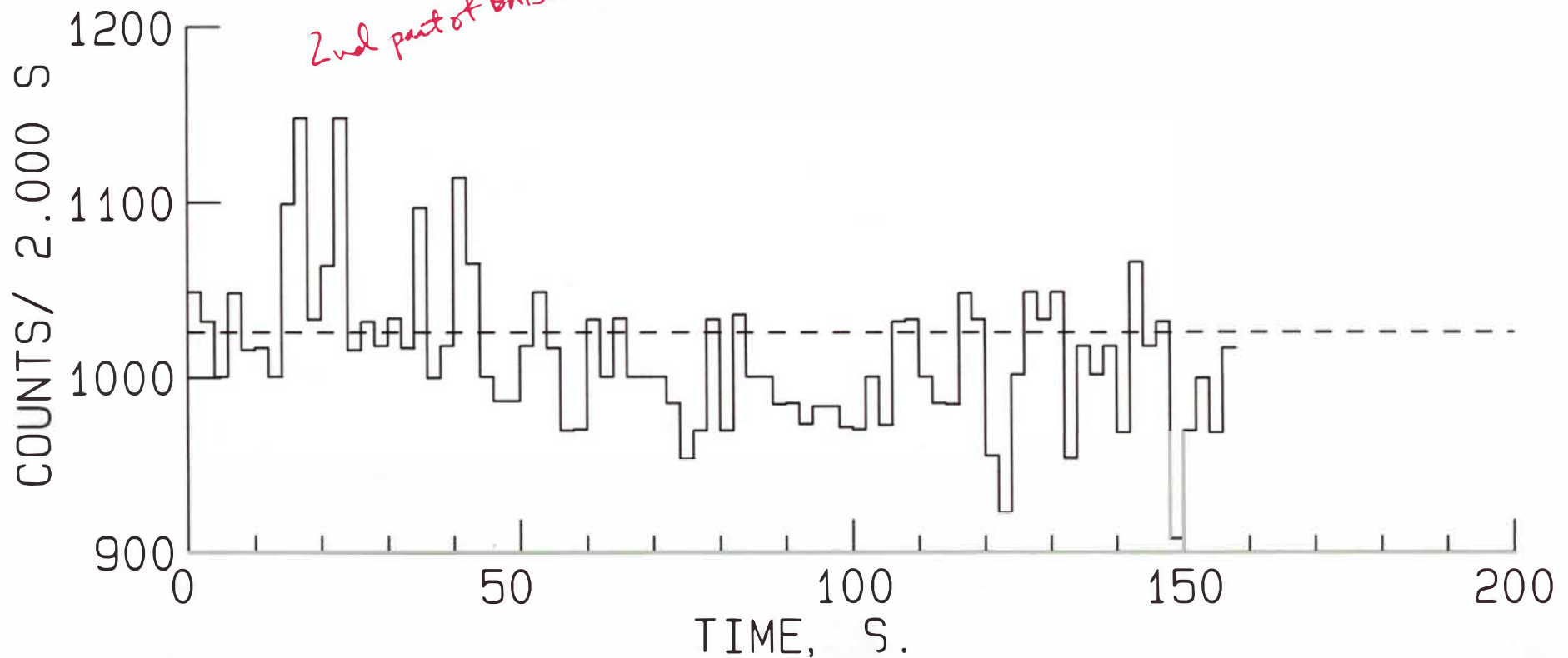
19 / 9 / 95 51141.648 s

0.250 S INTERVALS REGROUPED BY 8

21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

2nd part of BATSE burst



ULYSSES RT

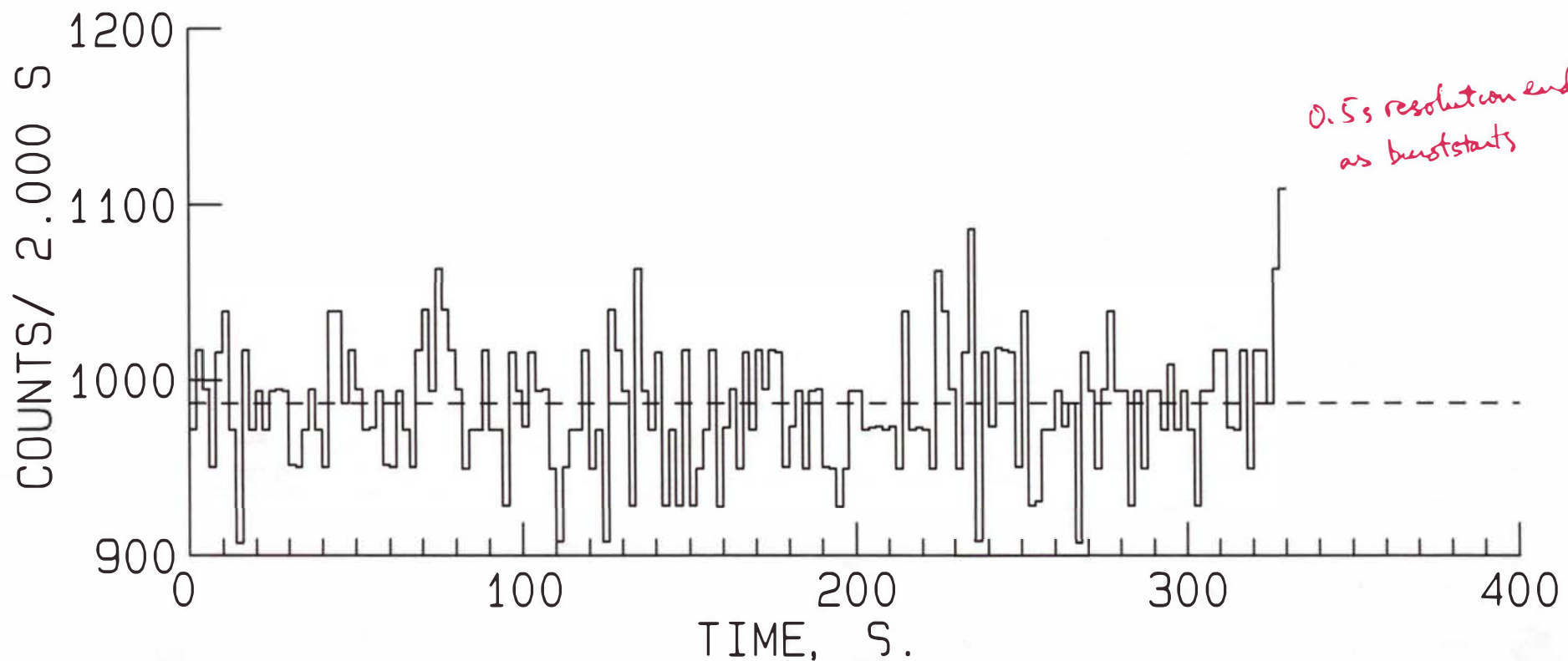
16 / 2 / 96

19 / 9 / 95 50796.388 s

0.500 S INTERVALS REGROUPED BY 4

21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



ULYSSES RT

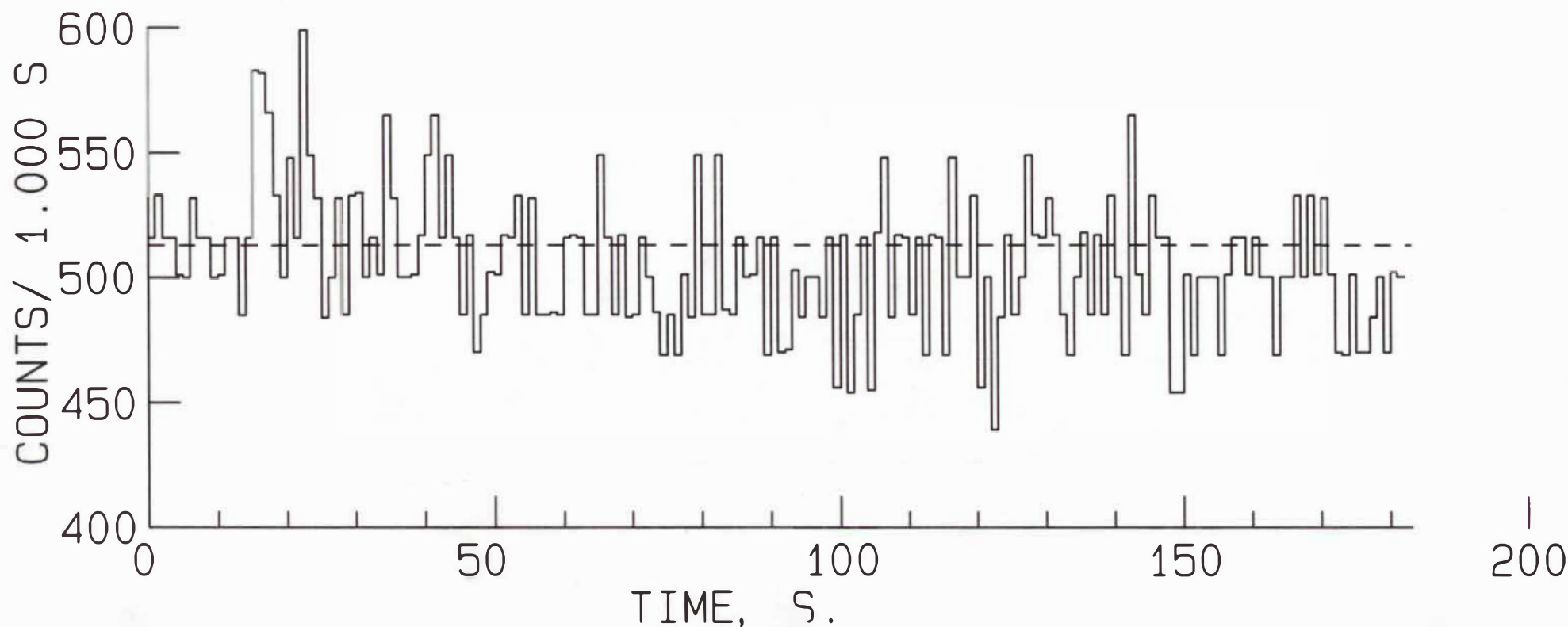
19/10/95

19/ 9/95 51141.648 s

0.250 S INTERVALS REGROUPED BY 4

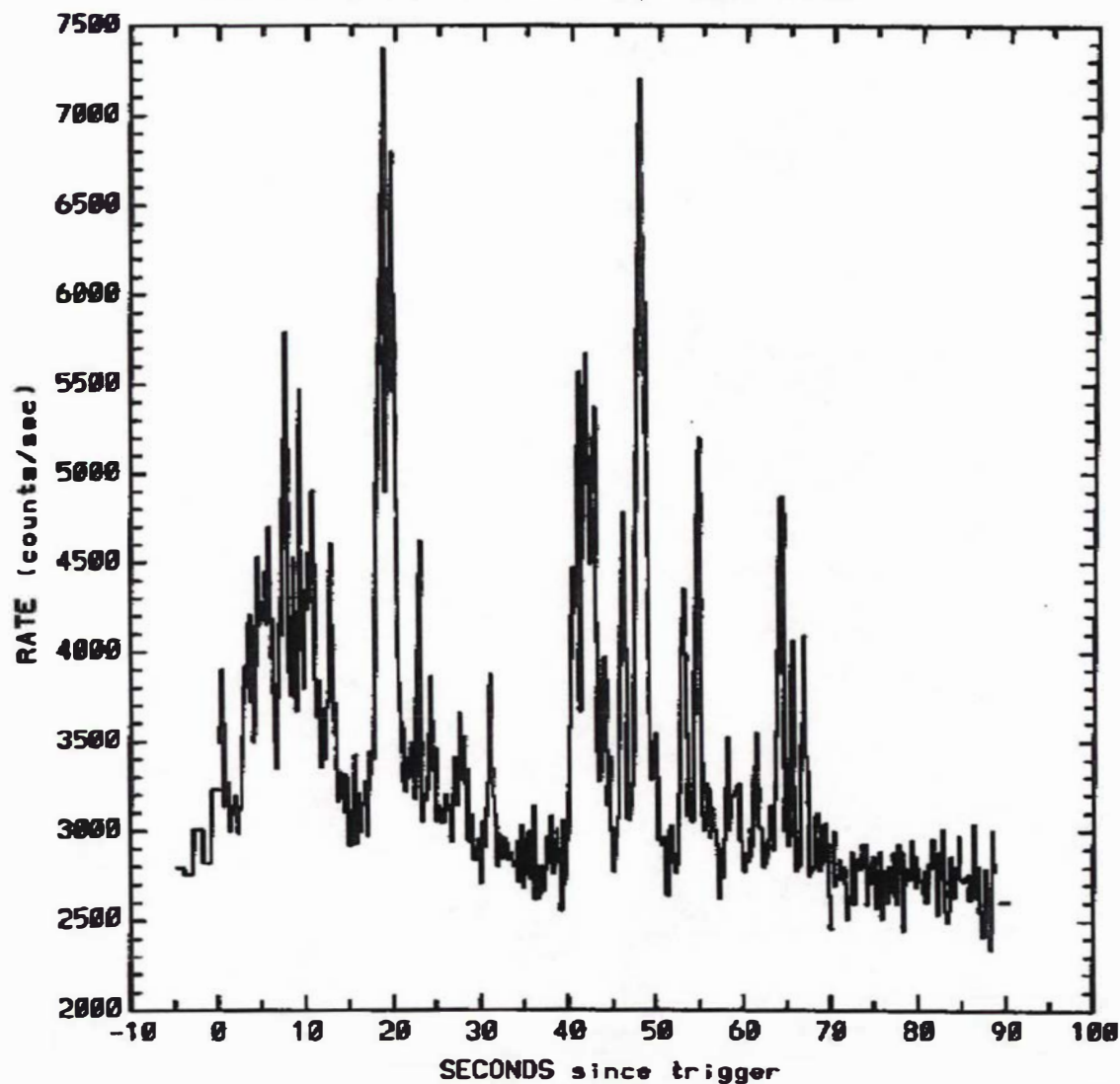
21- 145 keV

← Event truncated
Re-do with final data
N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



Sep 19

TTS Data for K. Hurley, No. 3806



6-OCT-1995 13:46:31

Created by MDPS 80
(Burst Display)
Version 12.25

Trigger # . 3806

Trigger Time:
9979 / 51447.218Burst Data Type:
TTS

Time Corrected: Y

Maximum Time Error:
0.20053 second(s)Deadtime
Corrected: NBackground Data
Type: PRED + DISCLA

Bin Count: 8

Detectors (7..8):
--54----Discriminators:
(2 . 2)Quality Mask:
BDISP1

BATSE

19/09/95

51447.218

25- 100 keV

COUNTS/S TTS

2000

4000

6000

8000

0

16

32

48

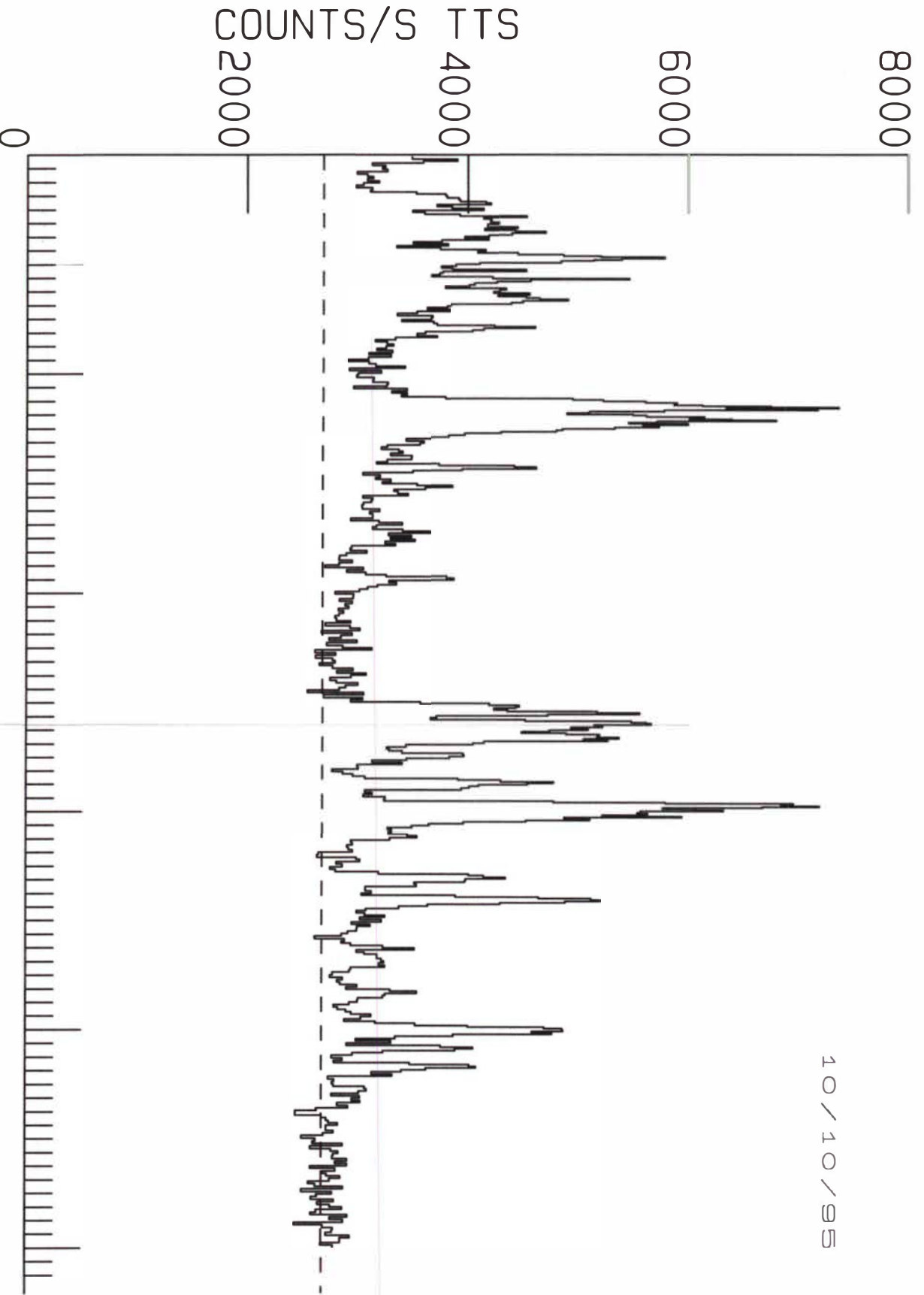
64

80

TIME, SECS

10/10/95

4.3



From RICHARDSON@SSLLES.MSFC.NASA.GOV Thu Sep 21 09:42 PDT 1995
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
Date: Thu, 21 Sep 1995 11:41:24 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3807

BATSEARCH PROGRAM

BATSE BURST # 3807
EVENT OF 1995 SEP 19 DAY OF YEAR=262
EVENT CROSSING TIME AT BATSE : 85135. S. OR 23:38:55.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 347.000 38.000
BATSE PEAK COUNTING RATE: 3500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 19/ 9/ 95 IS:
RA= 197.597 DEC= 63.166 DIST= 2.644 AU
BATSE-ULYSSES DISTANCE = 395504280. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=104.07 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -320.81 SECS.
CROSSING TIME AT ULYSSES IS 84814. S. OR 23:33:34 +/- 267.30 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 19/ 9/ 95 IS:
RA= 215.346 DEC= -14.440 DIST= 2.100 AU
MARS-BATSE DISTANCE = 314086528. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 48.65 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 692.22 SECS.
CROSSING TIME AT MARS IS 85827. S. OR 23:50:27 +/- 147.05 SECONDS

BATSE BURST TRIGGER

NO.: 3807

TIME: TJD=9979 SECONDS=85135

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=76.8 AZIMUTH=170.8 ERROR=2.9 DEGREES

COMMENTS:

GRB. DUR.~7 SEC. NOT VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3807	950919	9979	85135	3500	347	+38	7

25 / 9 / 95

ULYSSES RT

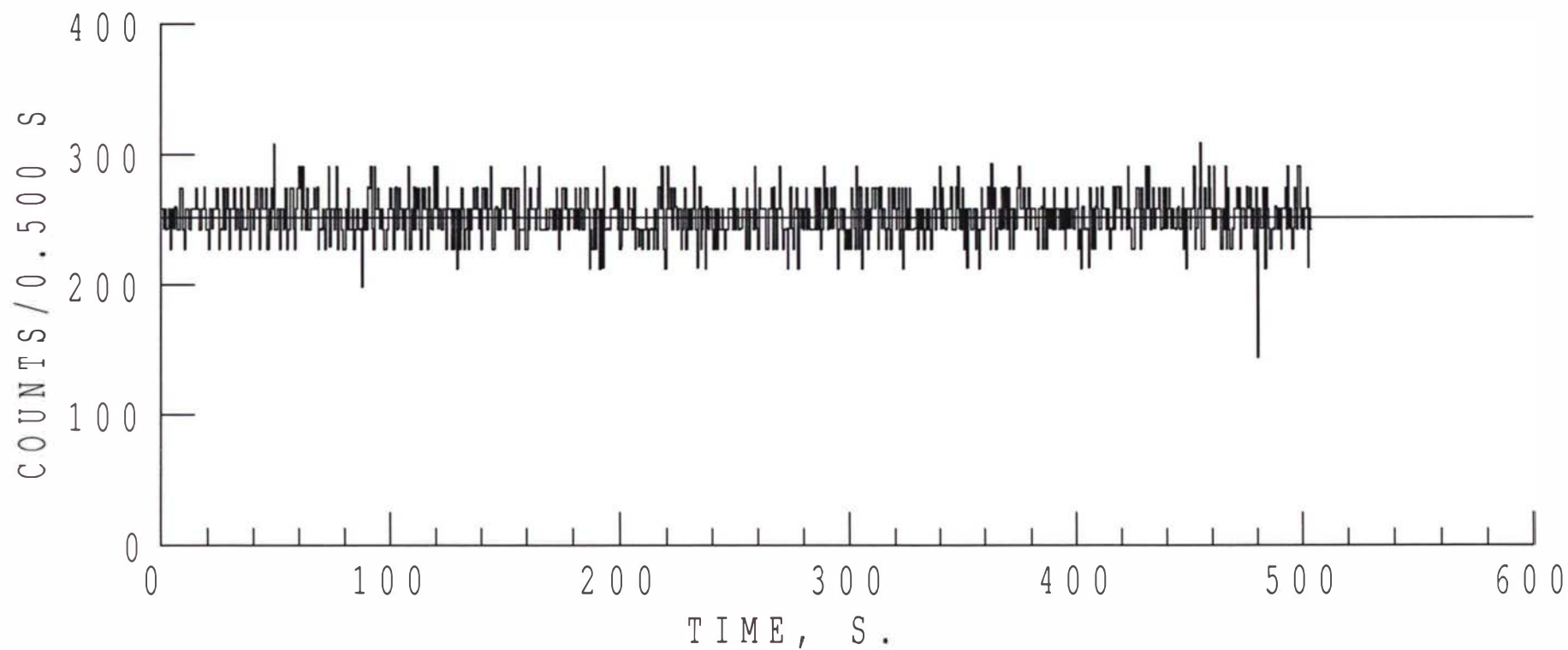
19 / 9 / 95 84564.227 s

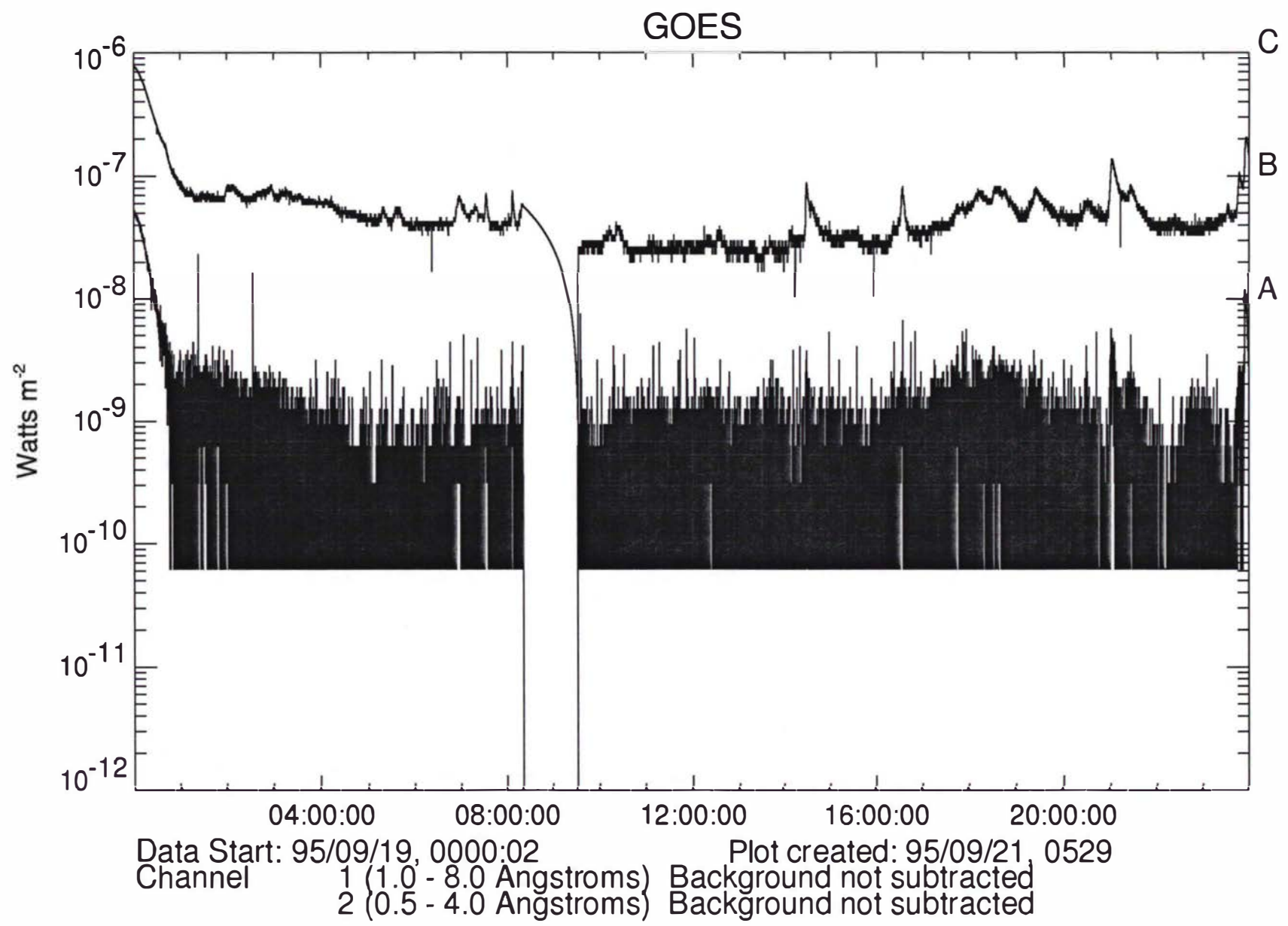
0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

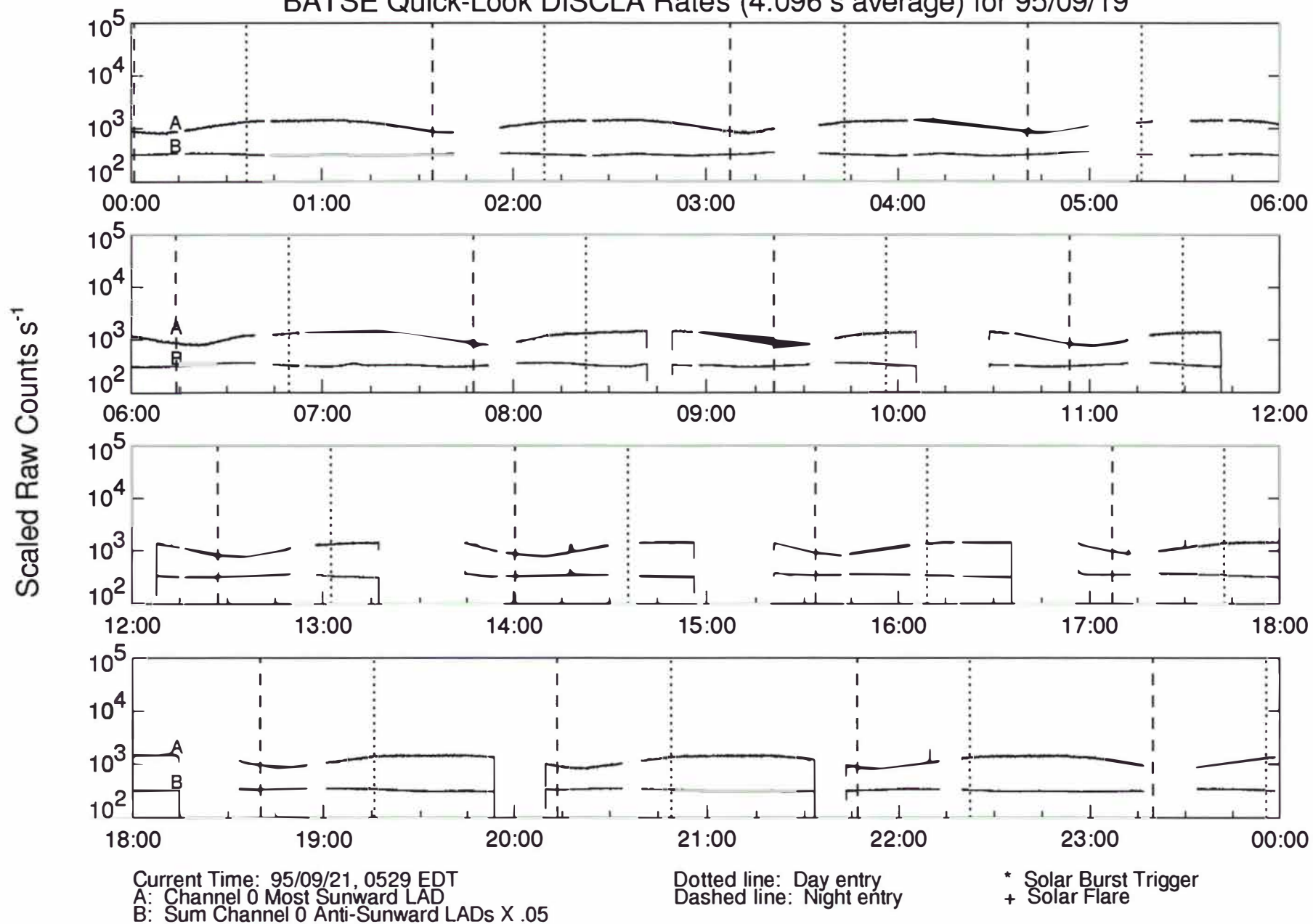
N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



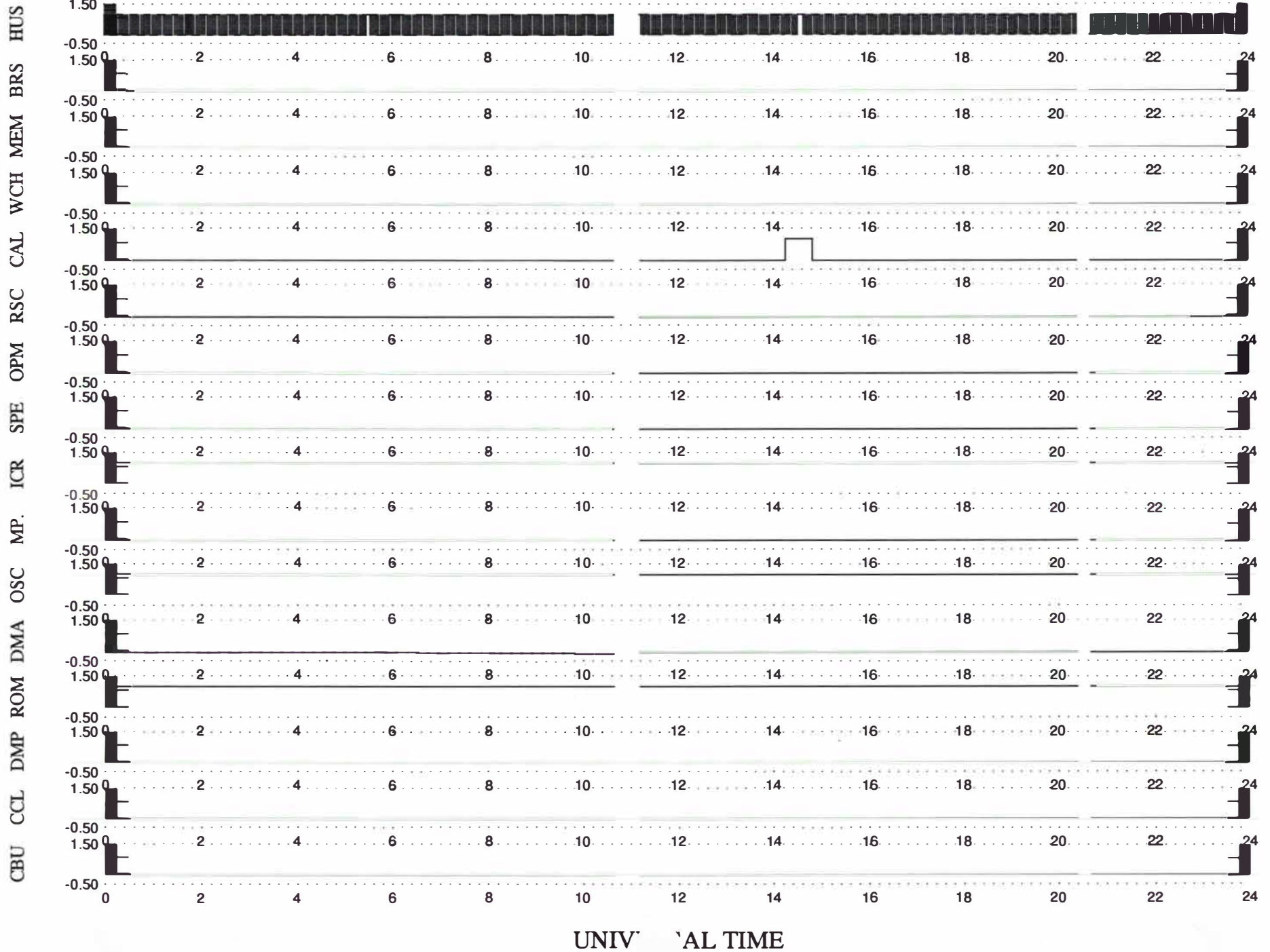


BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/19



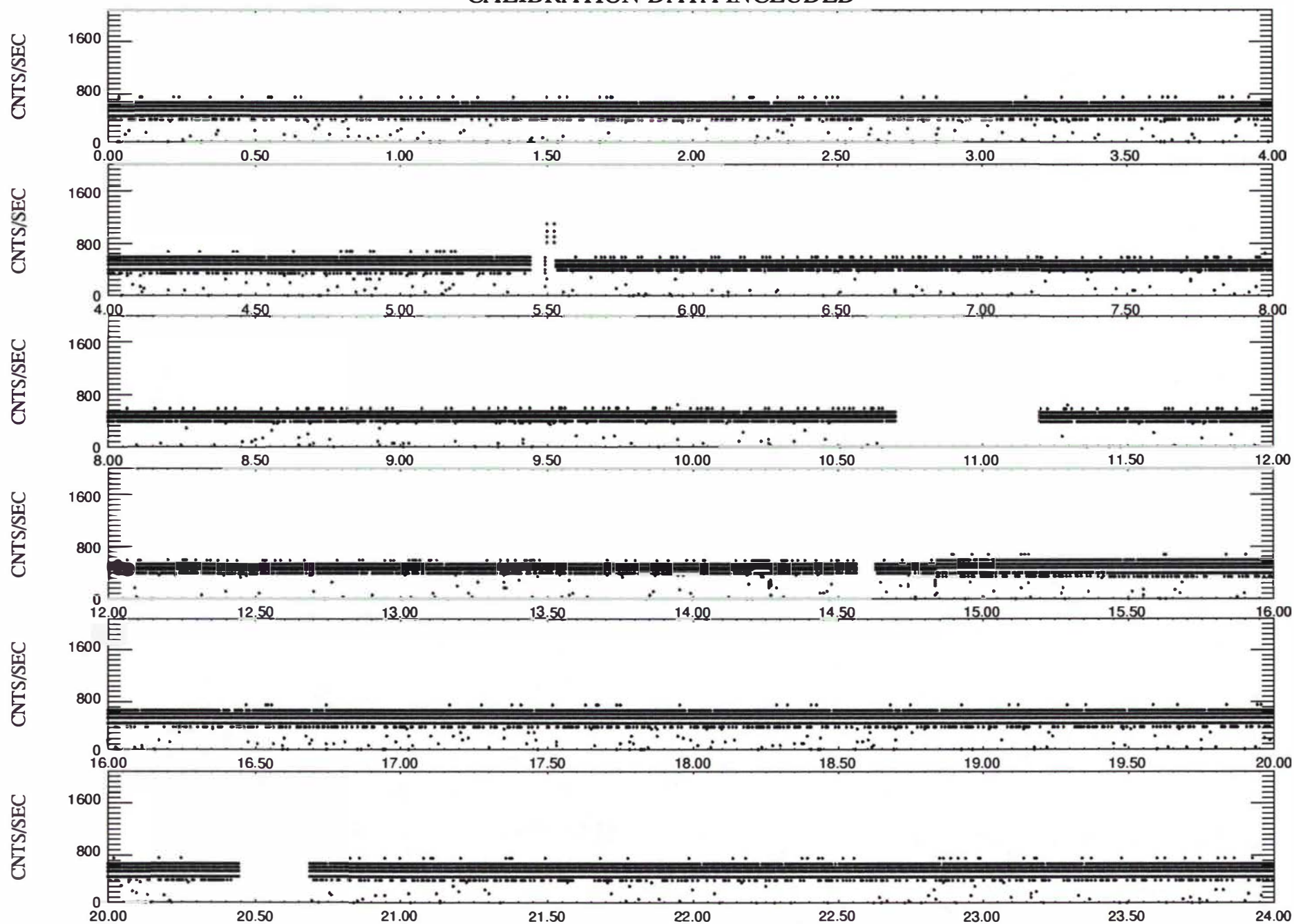
HUS MODES EDR day 262, year 1995 to day 262, year 1995
NO BURST (15)

1/25/96

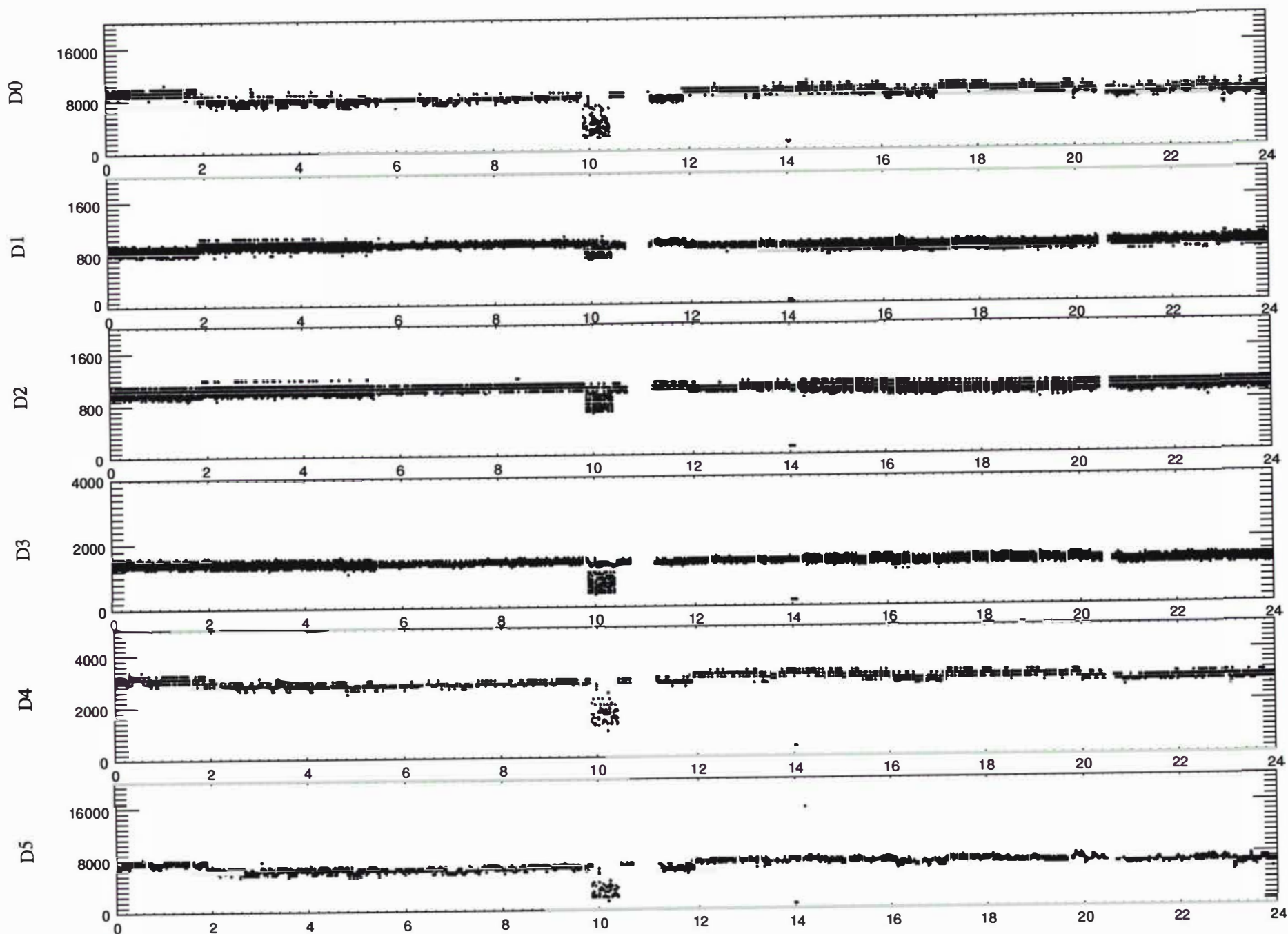


HUS 2A, MODE 1, NOT AVERAGED EDR day 262, year 1995 to day 262, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



UNIVERSAL TIME

From DEAL@SSLLES.MSFC.NASA.GOV Fri Sep 22 09:34 PDT 1995
From: DEAL@SSLLES.MSFC.NASA.GOV
Date: Fri, 22 Sep 1995 11:32:41 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3808

TIME: TJD=9980 SECONDS=16695

TYPE: FLARE SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=129.6 AZIMUTH=355.0 ERROR=1.2 DEGREES

COMMENTS:

SOLAR FLARE LASTING ~ 45 S. VERY SOFT SPECTRA. NOT VISIBLE ABOVE 300 KEV.

From HENZE@SSLLES.MSFC.NASA.GOV Mon Oct 2 14:48 PDT 1995
Date: Mon, 2 Oct 1995 16:48:24 -0500 (CDT)
From: HENZE@ssl.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3809

TIME: TJD=9980 SECONDS=39158

TYPE: FLARE SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=135.3 AZIMUTH=351.4 ERROR=1.4 DEGREES

COMMENTS:

SOLAR FLARE LASTING ~75 S. VERY SOFT SPECTRA. NOT VISIBLE ABOVE 300 KEV.
CORRECTED TIME (SECONDS).

From DEAL@ssl.msfc.nasa.gov Fri Sep 22 11:28 PDT 1995
Date: Fri, 22 Sep 1995 13:27:49 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3810

BATSEARCH PROGRAM

BATSE BURST # 3810
EVENT OF 1995 SEP 20 DAY OF YEAR=263
EVENT CROSSING TIME AT BATSE : 65086. S. OR 18:04:46.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 351.000 -41.000
BATSE PEAK COUNTING RATE: 8000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 20/ 9/ 95 IS:
RA= 197.925 DEC= 62.954 DIST= 2.649 AU
BATSE-ULYSSES DISTANCE = 396278477. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 27.09 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 1176.82 SECS.
CROSSING TIME AT ULYSSES IS 66263. S. OR 18:24:22 +/- 172.38 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 20/ 9/ 95 IS:
RA= 216.004 DEC= -14.669 DIST= 2.103 AU
MARS-BATSE DISTANCE = 314669536. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 69.51 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 367.46 SECS.
CROSSING TIME AT MARS IS 65453. S. OR 18:10:53 +/- 176.28 SECONDS

BATSE BURST TRIGGER

NO.: 3810

TIME: TJD=9980 SECONDS=65086

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=73.9 AZIMUTH=127.1 ERROR=6.1 DEGREES

COMMENTS:

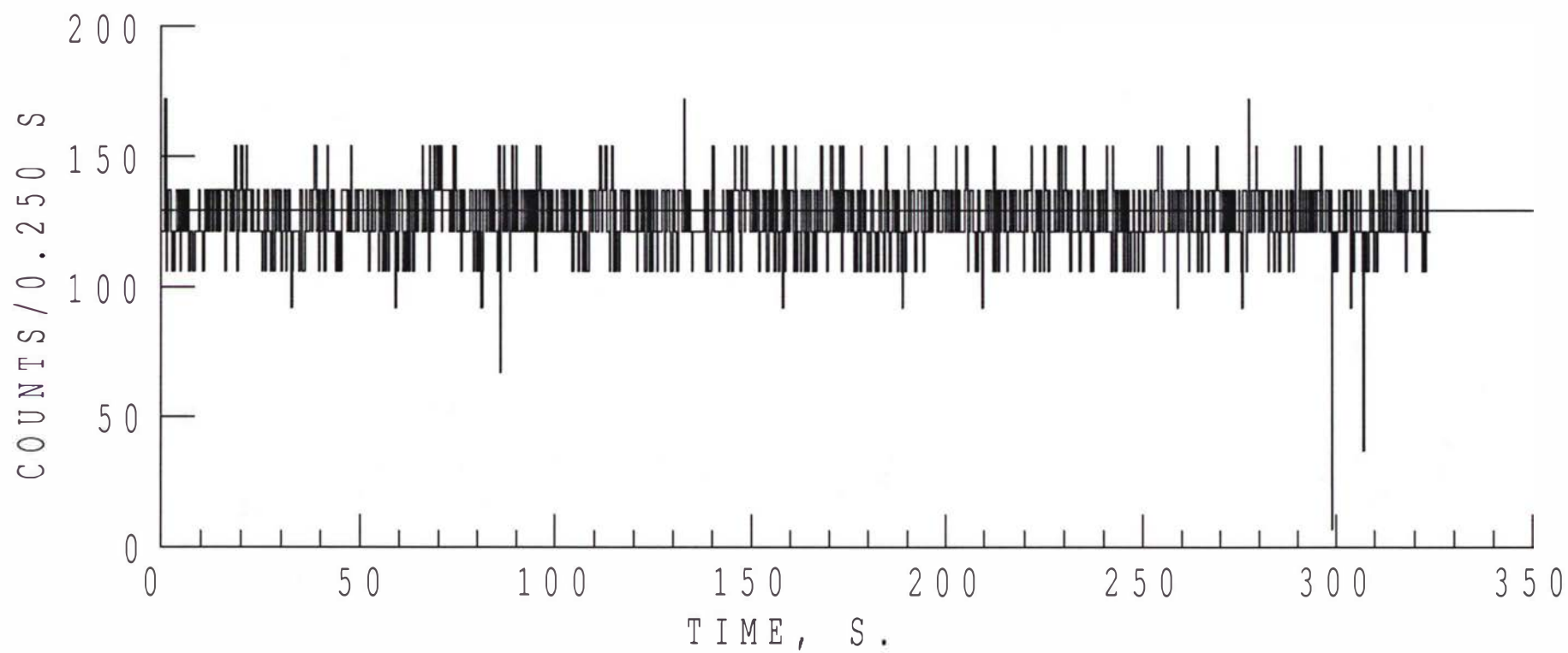
GRB DURATION ~ 0.09S. VERY SHORT FRED. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3810	950920	9980	65086	8000	351	-41	.09

25 / 9 / 95

ULYSSES RT
20 / 9 / 95 66096.102 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



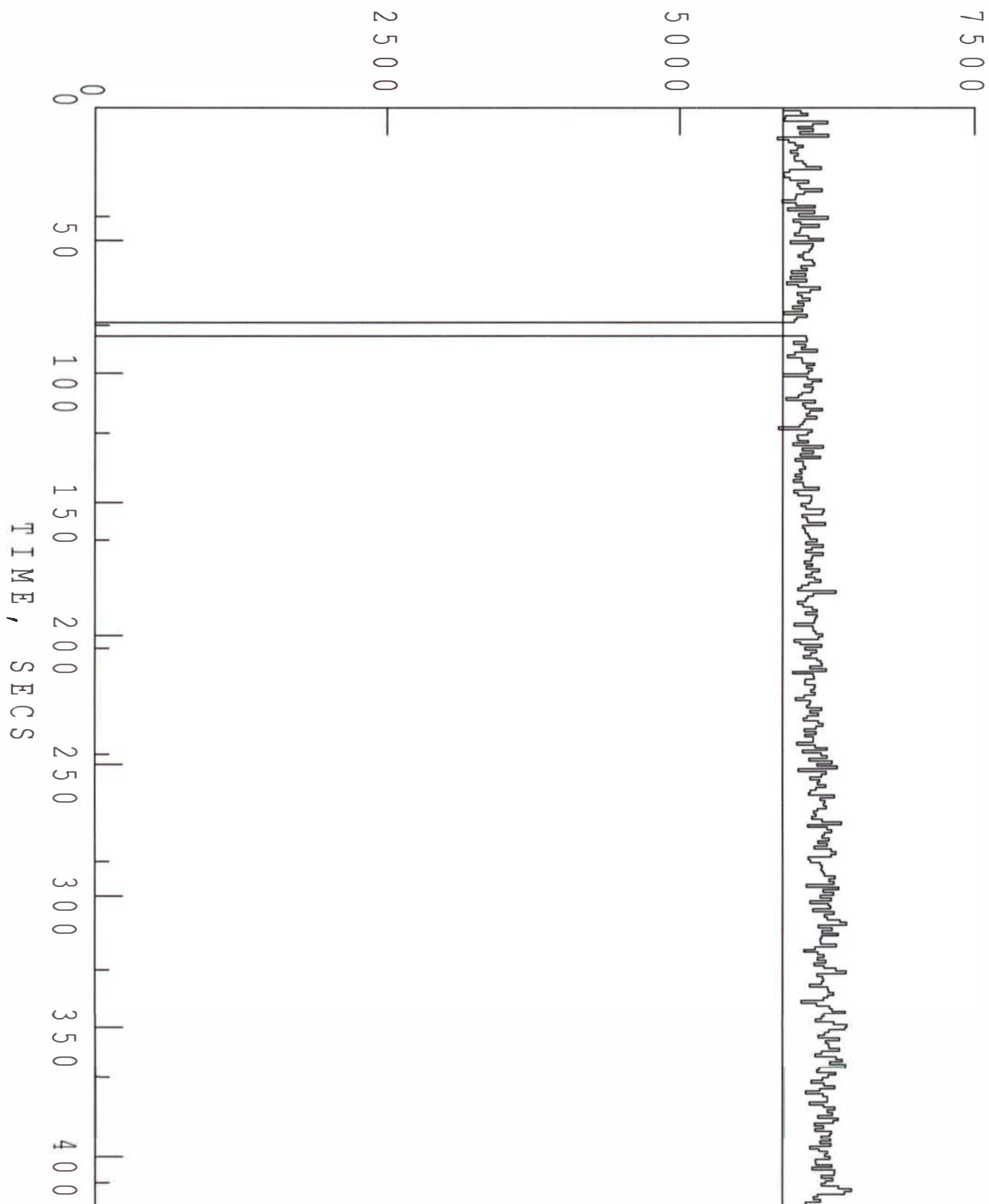
BACODINE

20/09/95

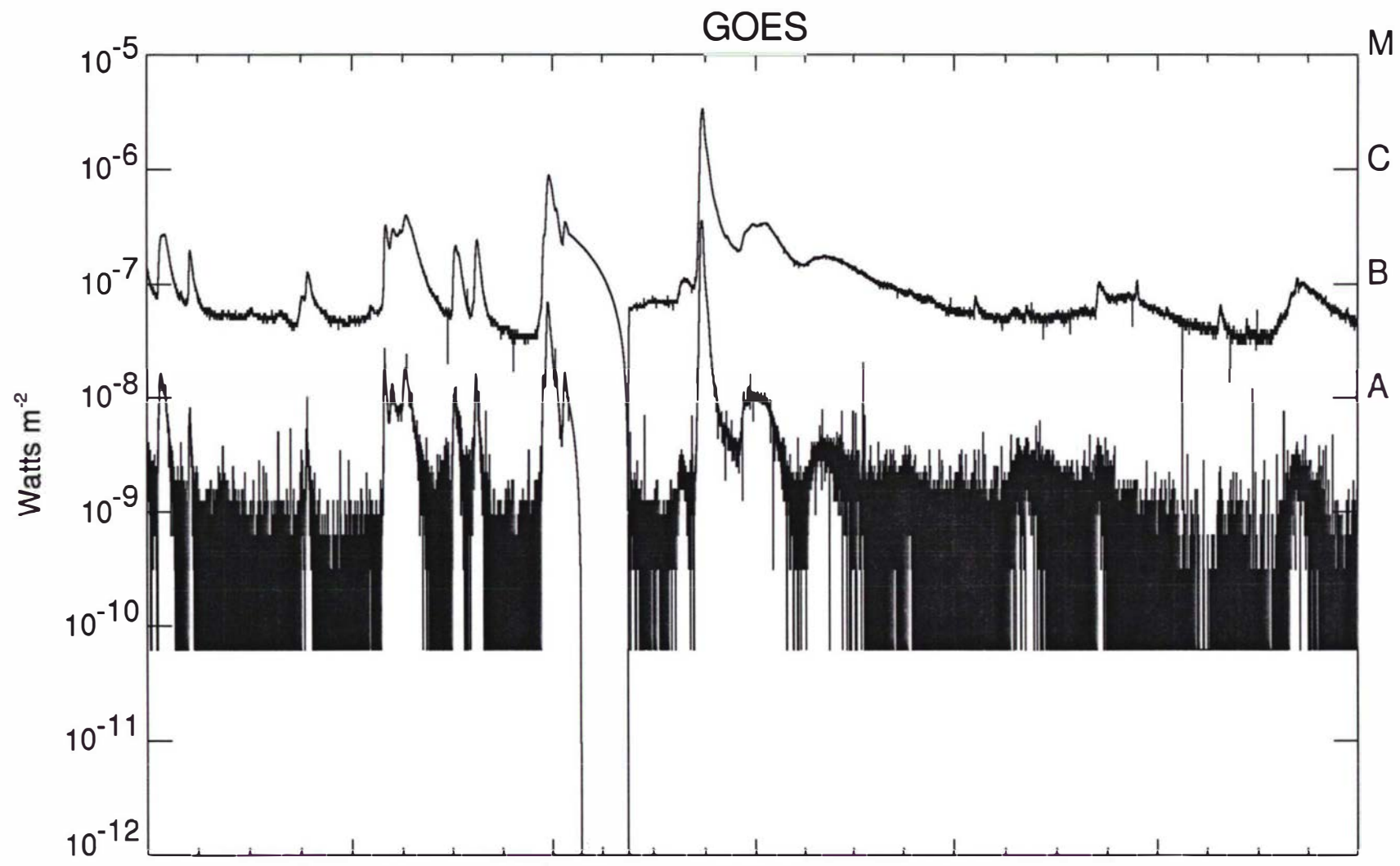
65075.889

25 - 100 keV

COUNTS/1.024 S

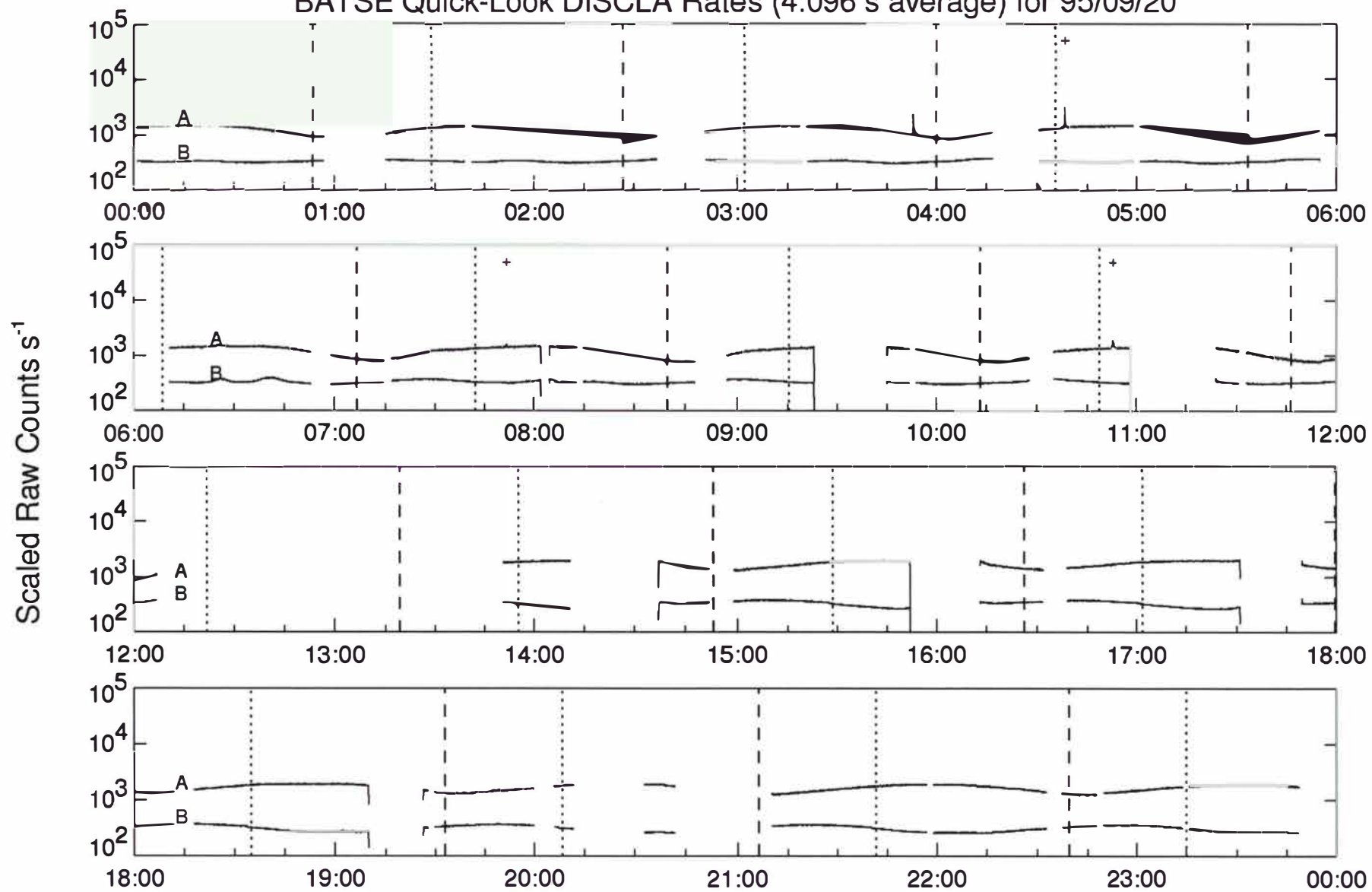


X



Data Start: 95/09/20, 0000:03 Plot created: 95/09/22, 0529
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/20

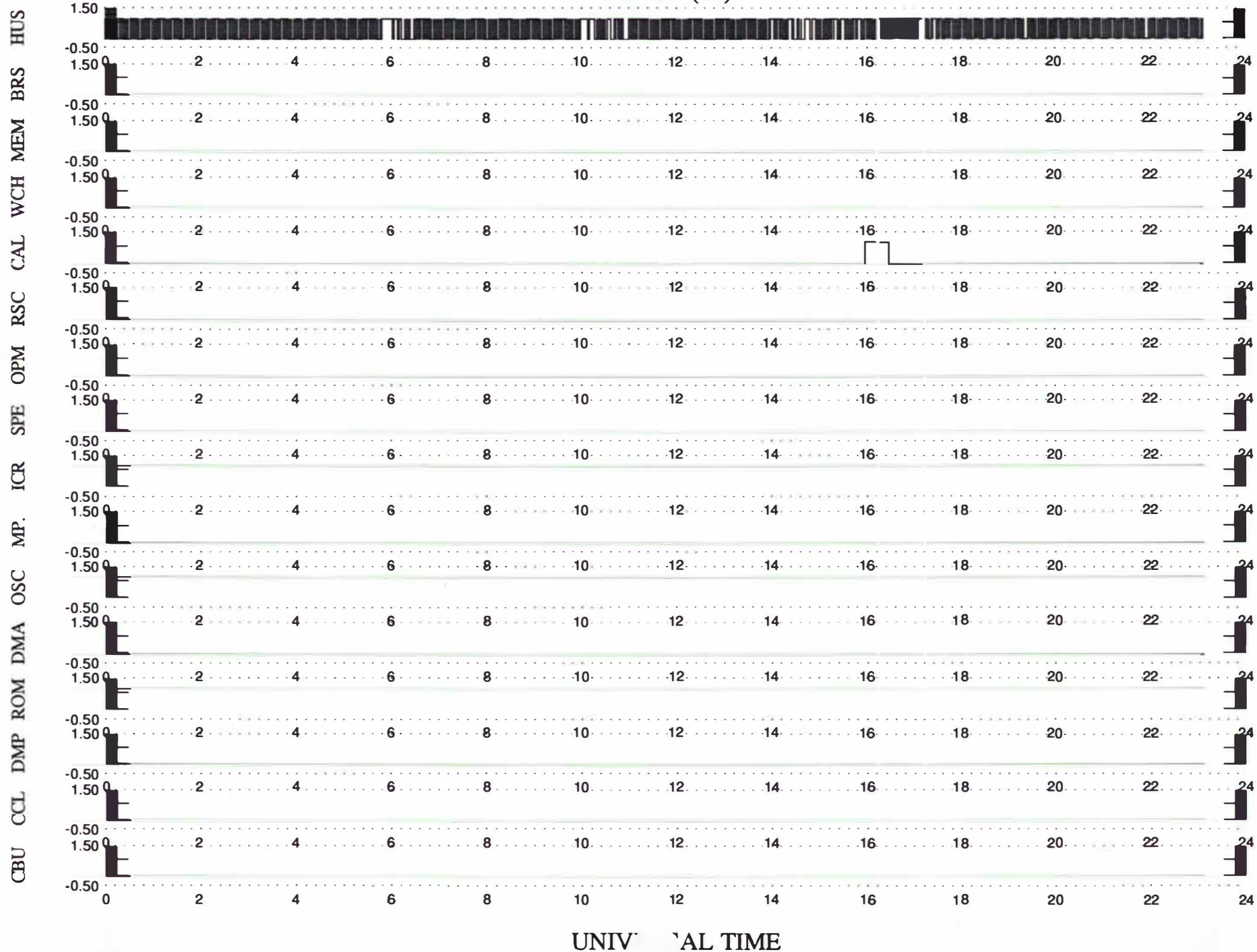


Current Time: 95/09/22, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

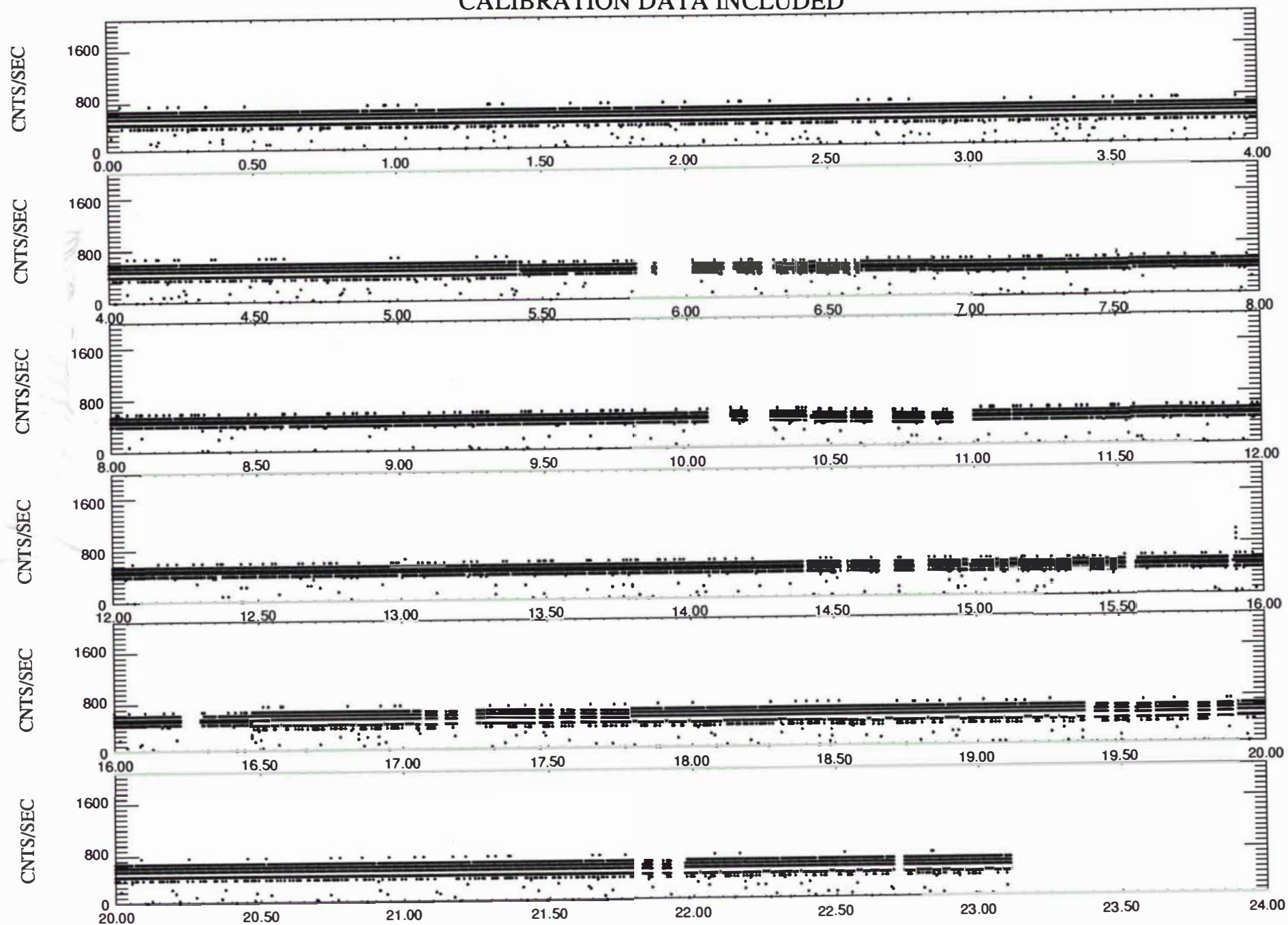
* Solar Burst Trigger
 + Solar Flare

1/25/96

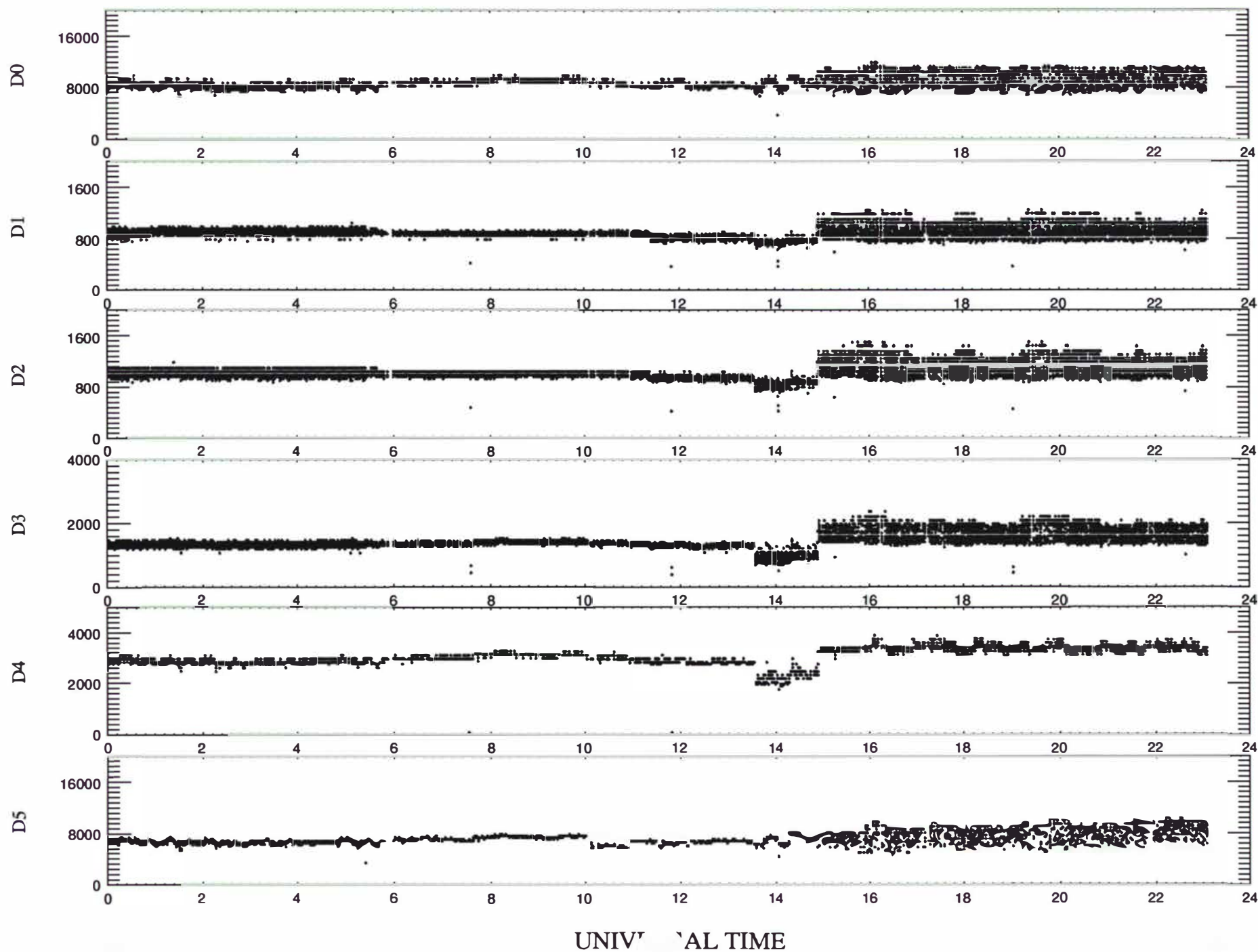


HUS 2A, MODE 1, NOT AVERAGED EDR day 263, year 1995 to day 263, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV' CAL TIME



From HAGEDON@fender.msfc.nasa.gov Mon Sep 25 11:05 PDT 1995
Return-Path: <HAGEDON@fender.msfc.nasa.gov>
Received: from FENDER.MSFC.NASA.GOV by sunspot.ssl.berkeley.edu (SMI-8.6/SMI-SVR4)
id LAA13631; Mon, 25 Sep 1995 11:04:57 -0700
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 25 Sep 1995 13:04:17 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Message-Id: <950925130417.21a04a39@fender.msfc.nasa.gov>
Subject: Crossing Windows for BATSE Burst 3811
Content-Type: text
Content-Length: 1135
X-Lines: 26
Status: RO

BATSEARCH PROGRAM

BATSE BURST # 3811
EVENT OF 1995 SEP 21 DAY OF YEAR=264
EVENT CROSSING TIME AT BATSE : 20947. S. OR 05:49:07.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 158.000 47.000
BATSE PEAK COUNTING RATE: 10400 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 21/ 9/ 95 IS:
RA= 198.131 DEC= 62.820 DIST= 2.652 AU
BATSE-ULYSSES DISTANCE = 396765979. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=152.72 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1176.27 SECS.
CROSSING TIME AT ULYSSES IS 19771. S. OR 05:29:30 +/- 137.45 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 21/ 9/ 95 IS:
RA= 216.665 DEC= -14.897 DIST= 2.107 AU
MARS-BATSE DISTANCE = 315246560. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 98.90 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -162.71 SECS.
CROSSING TIME AT MARS IS 20784. S. OR 05:46:24 +/- 177.90 SECONDS
NO.: 3811

BATS

TIME: TJD=9981 SECONDS=20947

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=114.7 AZIMUTH=300.3 ERROR=0.90 DEGREES

COMMENTS:

BURST. SINGLE PULSE WITH SUBSTRUCTURE. DUR.~10 SEC. MARGINALLY VISIBLE
ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3811	950921	9981	20947	10400	158	+47	10

95	7	1	117	23737	23737	3658
95	7	6	121	42735	42735	3662
95	7	11	123	13789	13789	3663
95	7	13	BGR	32133	32176	3664
95	7	30	128	76149	76124	3720
95	8	4	131	7135	07134	3734
95	8	4	133	45377	45376	3735
95	8	8	BGR	13023	12974	3745
95	8	9	136	85945	85945	3750
95	8	18	137	5065	05002	3765
95	8	22	140	13751	13749	3767
95	9	4	142	52692	52688	3776
95	9	9	145	85473	85452	3788
95	9	19	151	51465	51447	3806
95	9	21	152	20947	20947	3811
95	9	22	BGR	15495		
95	9	22	BGR	25929		
95	9	26	BGR	63919		
95	10	1	153	41907		
95	10	2	BGR	77583		3843
95	10	4	BGR	83974		
95	10	5	154	14842.112		
95	10	8	156	46287.863		
95	10	10	BGR	11774		
95	10	11	157	77693.094		3860
95	10	13	159	57097.299		
95	10	14	160	13108.167		
95	10	14	161	43561.3		
95	10	16	162	02484.285		3870
95	10	16	BGR	71607		3871
95	10	18	163	19832.069		
95	10	19	64	11712.625		
95	10	19	165	48244.594		3875
95	10	25	167	85239.738		
95	11	2	168	07085.879		
95	11	2	69	21209.015		3891
95	11	2	BGR	28693		
95	11	5	BGR	01745		
95	11	5	170	05868.077		3893
95	11	5	171	46827.808		
95	11	7	BGR	27298		
95	11	11	BGR	34960		
95	11	12	172	66495.244		
95	11	13	173	84358.872		3906
95	11	15	BGR	38929		
95	11	17	175	10123.762		
95	11	18	BGR	82560		
95	11	19	176	29831.402		3912
95	11	19	177	46457.519		
95	11	19		59448		
95	11	21		22280		
95	11	22	179	09841.38		
95	11	22	180	17107.738		
95	11	23	BGR	65408		
95	11	24	BGR	21266		3918
95	11	24	BGR	25132		

-- T. L. Cline ----- LHEAVX::CLINE

From cline@lheavx.gsfc.nasa.gov Fri Jan 26 13:00 PST 1996
 Date: Fri, 26 Jan 1996 13:00:45 -0800
 Mime-Version: 1.0
 To: KHURLEY@sunspot.ssl.berkeley.edu
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: Improved list; same question.

Dear Kevin,

I'm making a little progress here, tracking down these events. This is a slightly improved list, with a few more BATSE triggers identified. - TLC

Yr	Mn	Dy	Konus#	Konus Tzero	BATSE Tz, #	Ulysses
94	11	14	BGR	07360	07358	3283 - NO
94	11	19	4	70269.175	70250	3287 R I
94	11	21	6	62700.945	62697	3290 trig.
94	11	25	7	79470.156	79470	3295 R I
94	11	26	BGR	01246	01245	3296
94	11	26	8	44557.952	44521	3298 trig.
94	11	26	BGR	60860	60861	3299
94	11	26	9	71809.732	71798	3301 R I
94	11	27	10	52225.68	52217	3303 R I
94	11	28	BGR	56220	56217	3305
94	12	28	28	27585.915	27581	3330 R I
94	12	29	29	82268.781	82258	3334 R I
95	1	4	31	26319.613	26319	3345 R I
95	1	11	33	17352.241	17263	3351 R I
95	1	11	34	44329	44310	3352
95	1	17	BGR	05760	05761	3360
95	1	18	BGR	44574	44589	3364
95	2	7	BGR	02774	02781	3406
95	2	8	45	07824	07824	3408
95	2	10	47	08424	08421	3410
95	2	11	48	08697	08697	3412 trig.
95	2	11	50	72469	72468	3415
95	2	21	BGR	74701	74705	3436
95	2	26	54	53351	53336	3442
95	3	1	BGR	75731	75761	3448
95	3	4	56	37661	37657	3453
95	3	5	58	54309	54304	3458
95	3	10	BGR	78388	78395	3464
95	3	25	63	25841	25844	3480
95	3	25	64	63392	63391	3481
95	3	27	BGR	26323	26347	3485
95	3	27	BGR	85672	85671	3486
95	4	1	69	42647	42642	3488
95	4	1	70	74635	74634	3489
95	4	3	71	47985	47987	3491
95	4	3	72	84828	84826	3492
95	4	16	BGR	48420	48419	3509
95	4	18	81	83793	83795	3512
95	4	25	86	00923	00919	3523
95	4	30	BGR	54224	54229	3527
95	5	3	88	66971	66970	3537
95	5	10	90	28083	28079	3569
95	5	13	93	81706	81703	3571
95	5	21	97	25161	25157	3588
95	5	22	98	23898	23896	3590
95	5	22	100	85280	85283	3593
95	5	24	102	14902	14899	3598
95	6	2	104	25592	25592	3618
95	6	10	107	6849	06849	3637
95	6	24	111	84124	84084	3648
95	6	25	113	14626	14601	3649
95	6	29	115	37033	37036	3654
95	7	1	116	12762	12758	3657

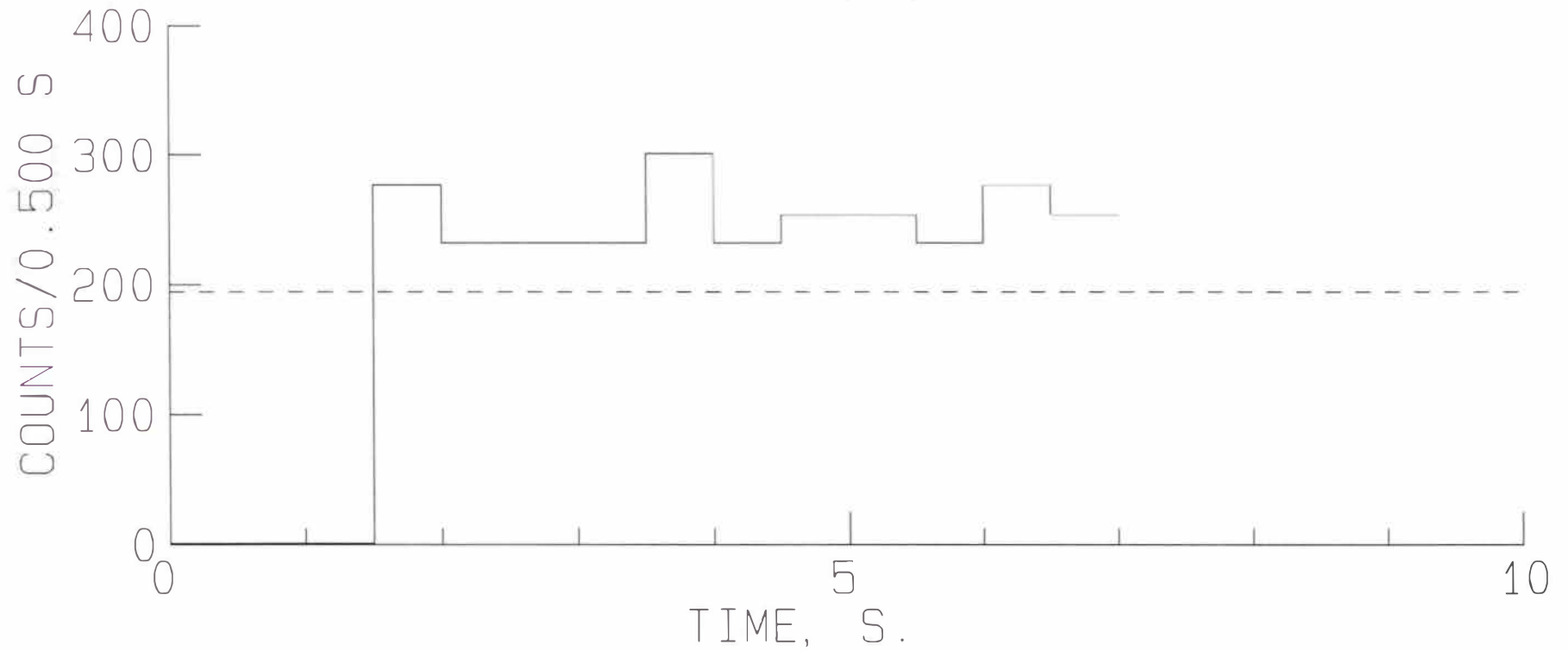
BATSE BURST# 3811

7 / 2 / 96

ULYSSES RT
21/ 9/95 19901.283 s
0- 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



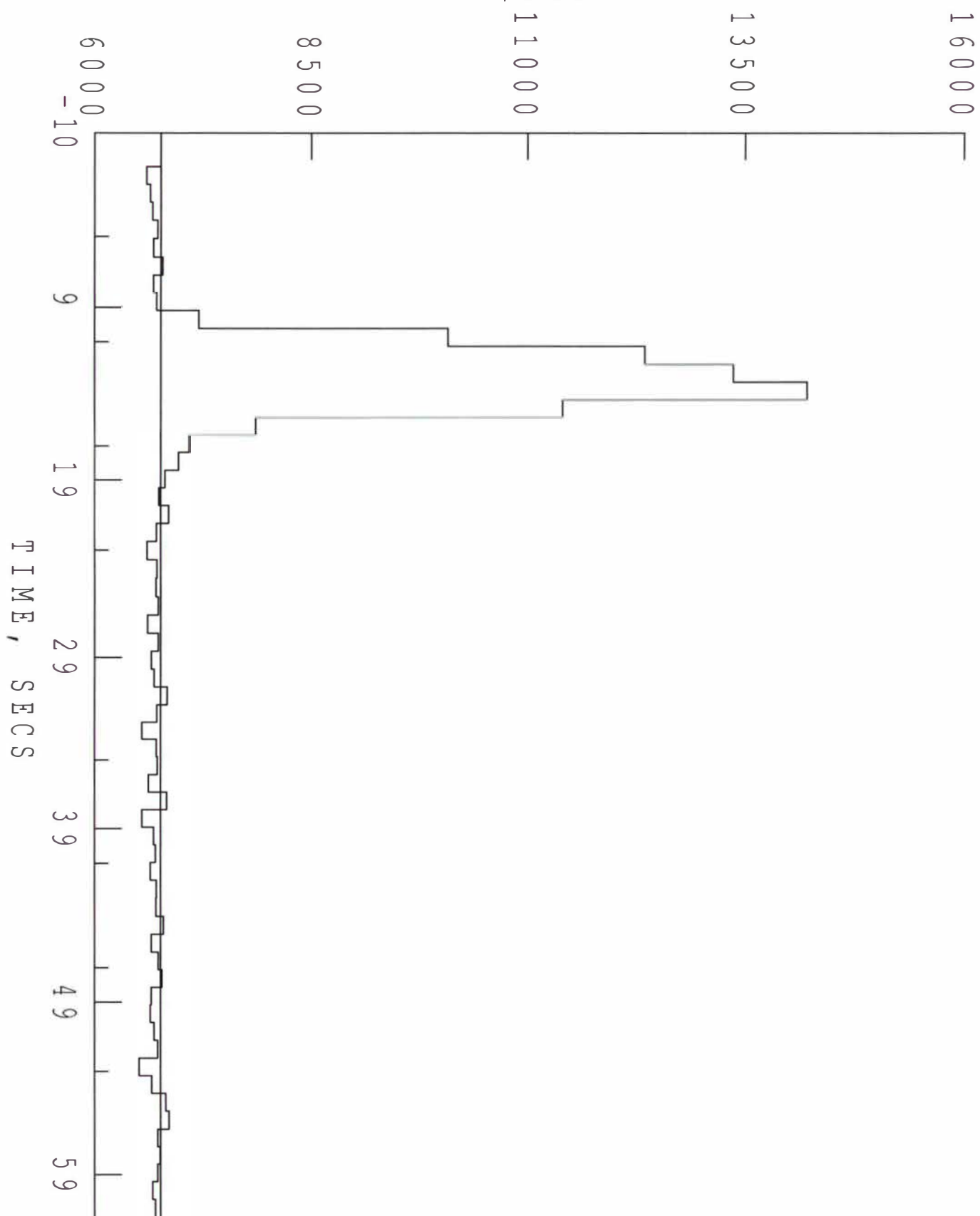
BACODINE

21/09/95

20936.369

25 - 100 keV

COUNTS/1.024 S



From HAGEDON@fender.msfc.nasa.gov Mon Sep 25 11:13 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 25 Sep 1995 13:13:03 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3812

BATSEARCH PROGRAM

BATSE BURST # 3812
EVENT OF 1995 SEP 21 DAY OF YEAR=264
EVENT CROSSING TIME AT BATSE : 41219. S. OR 11:26:59.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 88.000 6.000
BATSE PEAK COUNTING RATE: 3500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 21/ 9/ 95 IS:
RA= 198.229 DEC= 62.756 DIST= 2.654 AU
BATSE-ULYSSES DISTANCE = 396998423. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 86.30 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 85.40 SECS.
CROSSING TIME AT ULYSSES IS 41304. S. OR 11:28:24 +/- 280.73 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 21/ 9/ 95 IS:
RA= 216.665 DEC= -14.897 DIST= 2.107 AU
MARS-BATSE DISTANCE = 315246560. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 51.15 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 659.67 SECS.
CROSSING TIME AT MARS IS 41879. S. OR 11:37:58 +/- 152.19 SECONDS

BATSE BURST TRIGGER

NO.: 3812

TIME: TJD=9981 SECONDS=41219

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=173.1 AZIMUTH=120.6 ERROR=3.4 DEGREES

COMMENTS:

BURST. WEAK SINGLE PULSE. FASTER RISE THAN DECAY. DUR.~85 SEC.
NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3812	950921	9981	41219	3500	088	+06	85

25 / 9 / 95

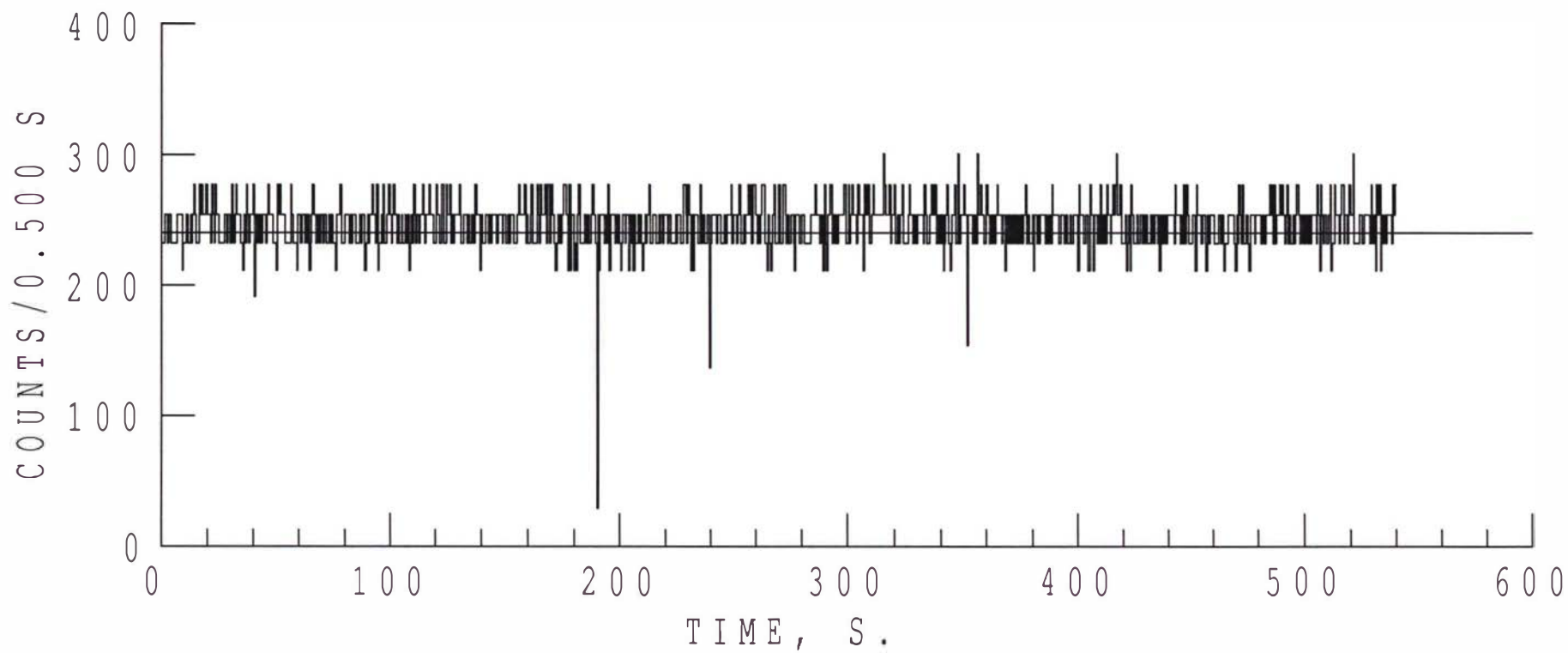
ULYSSES RT

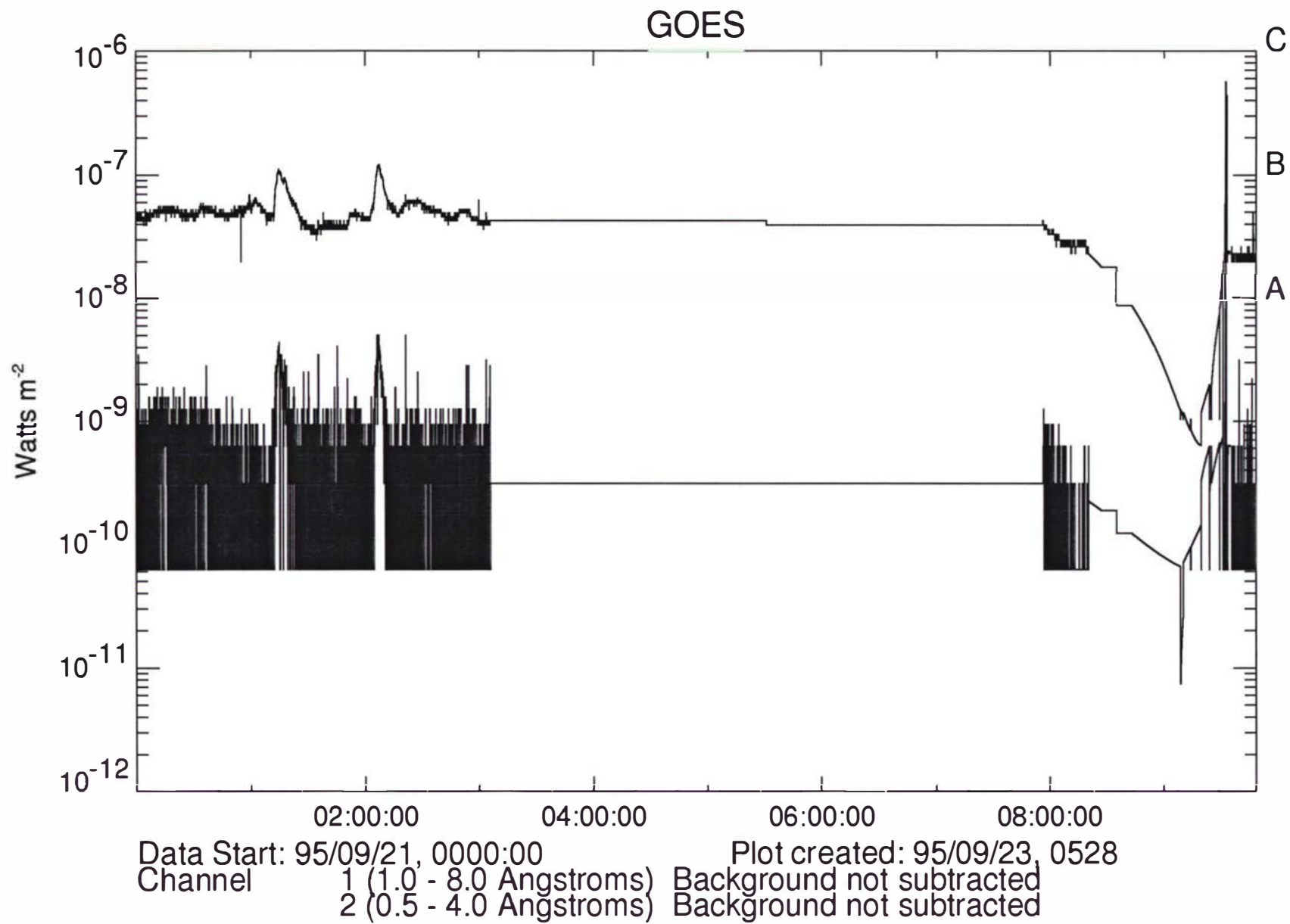
21 / 9 / 95 41040.141 s

0 - 0 keV

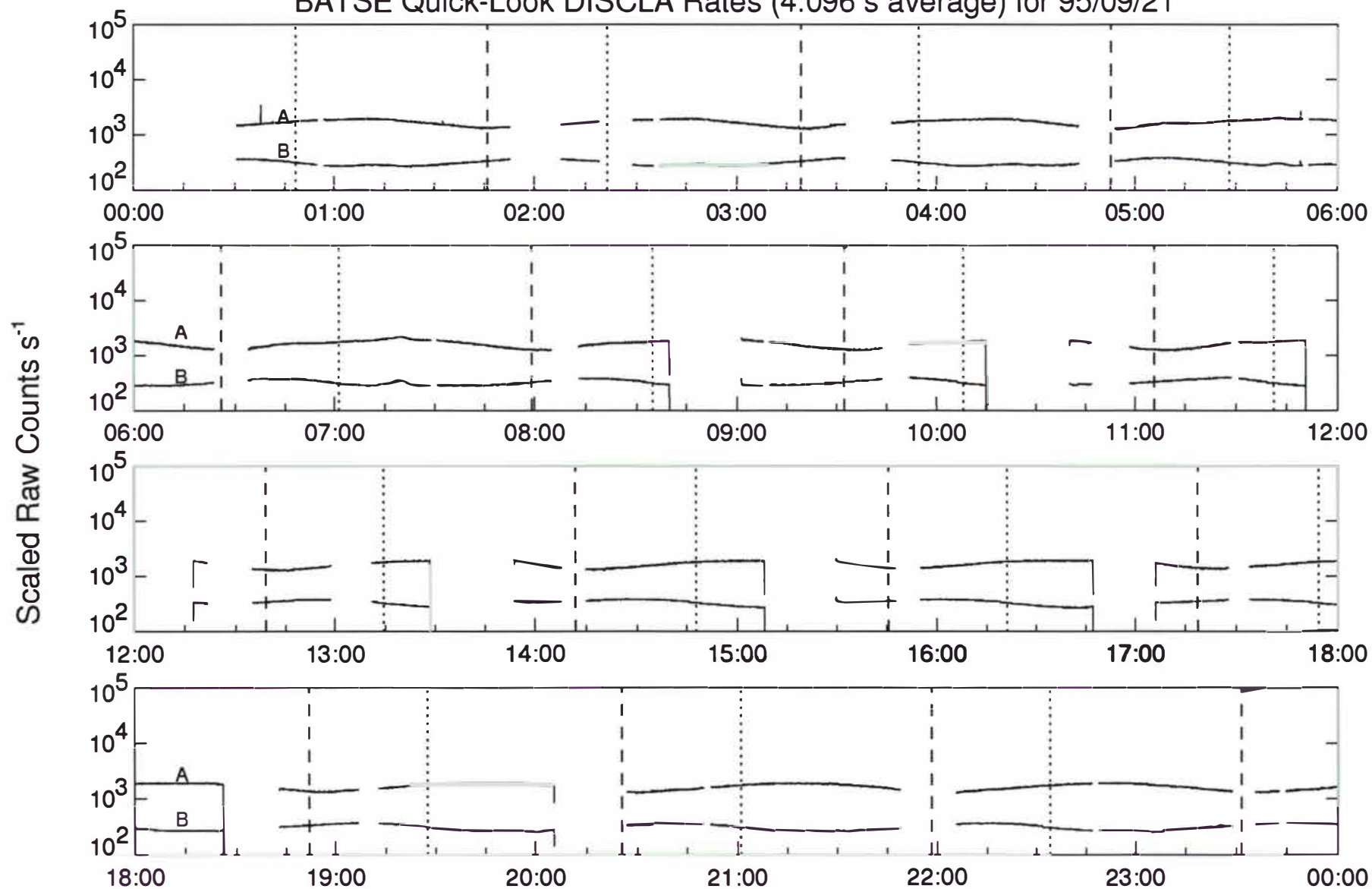
N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS





BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/21

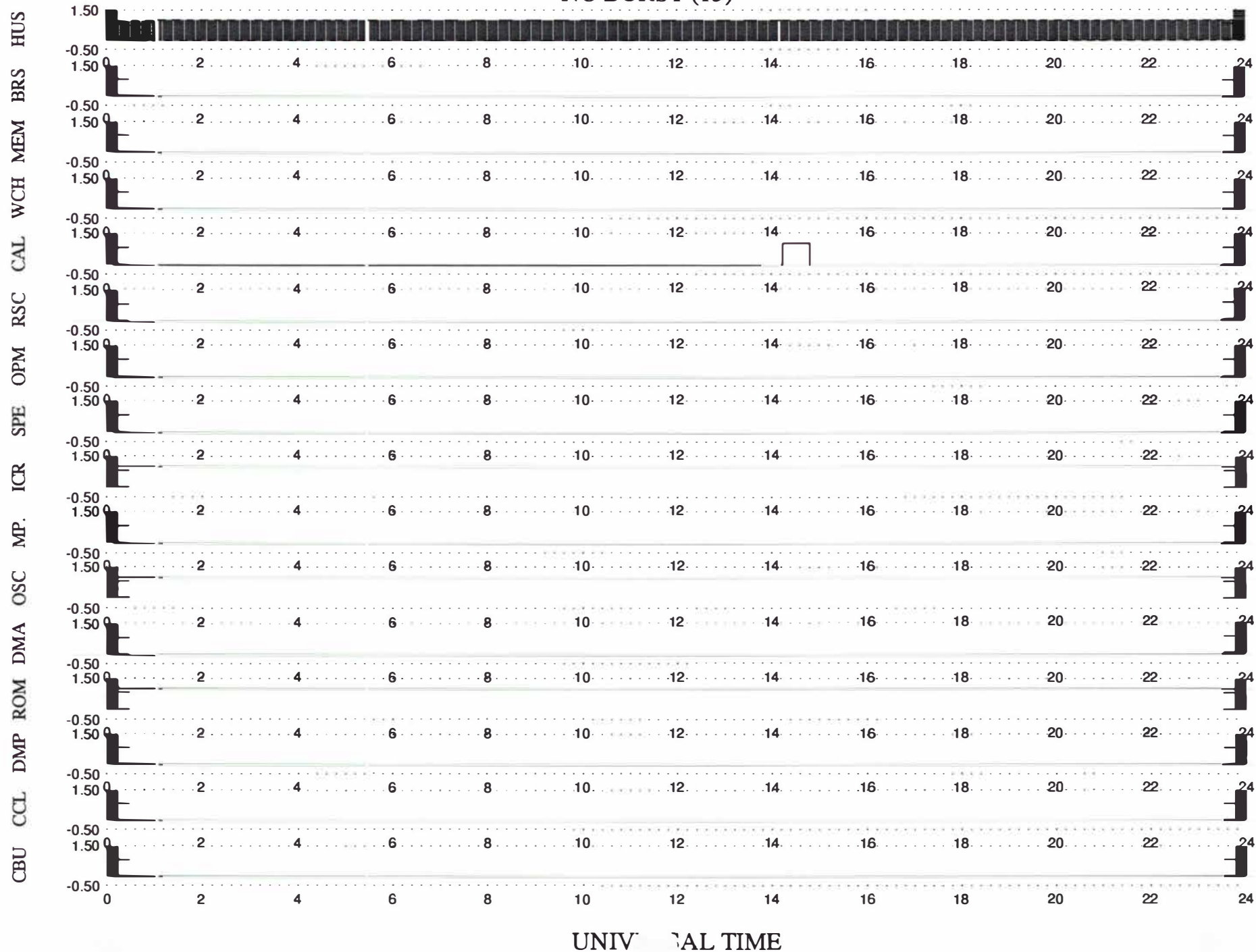


Current Time: 95/09/23, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

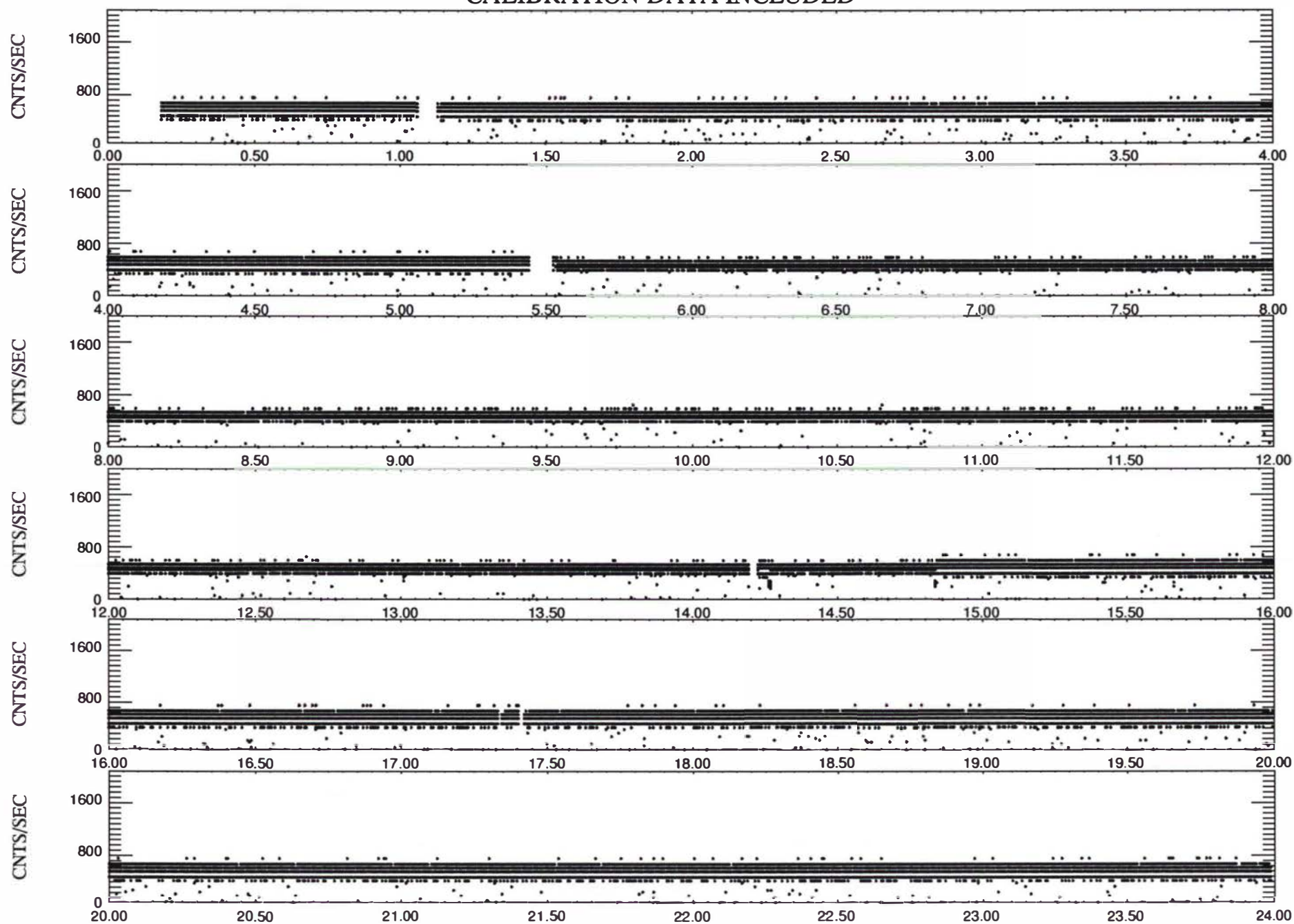
* Solar Burst Trigger
 + Solar Flare

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 264, year 1995 to day 264, year 1995
CALIBRATION DATA INCLUDED

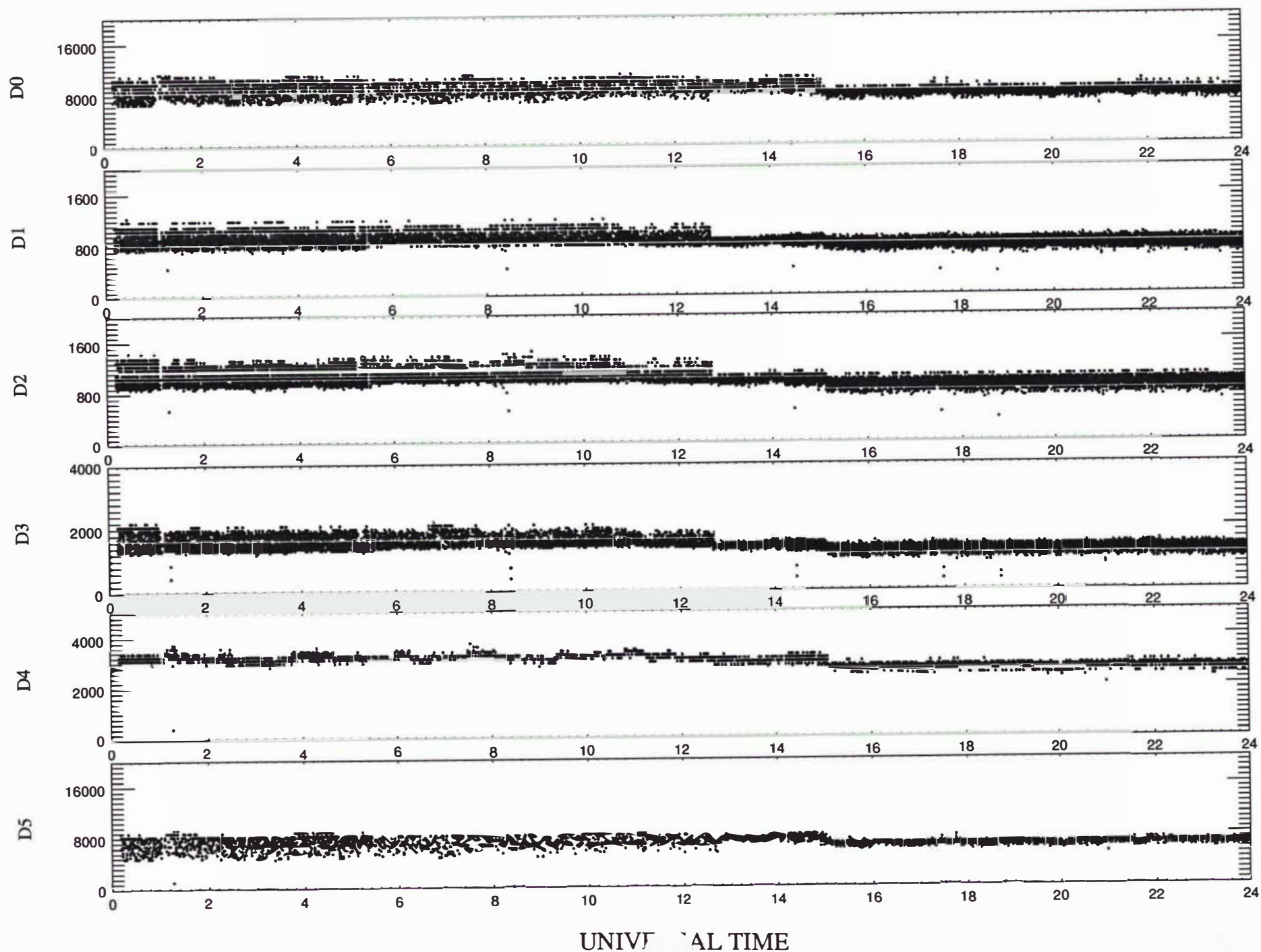
1/25/96



UNIVERSAL TIME

HUS 2B COUNTS / SEC QEDR day 264, year 1995 to day 264, year 1995

9/25/95



From DEAL@SSLLES.MSFC.NASA.GOV Wed Sep 27 10:42 PDT 1995
From: DEAL@SSLLES.MSFC.NASA.GOV
Date: Wed, 27 Sep 1995 12:41:40 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
 "LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
 "LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@circe.gsfc.nasa.gov,
 "15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3813

TIME: TJD=9982 SECONDS=4147

TYPE: TGF SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=92.5 AZIMUTH=0.8 ERROR=8.4 DEGREES

COMMENTS:

TGF LASTING ~ 5 MS.

From DEAL@ssl.msfc.nasa.gov Mon Sep 25 12:31 PDT 1995
Date: Mon, 25 Sep 1995 14:30:57 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3814

BATSEARCH PROGRAM

No

BATSE BURST # 3814
EVENT OF 1995 SEP 22 DAY OF YEAR=265
EVENT CROSSING TIME AT BATSE : 15493. S. OR 04:18:13.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 245.000 40.000
BATSE PEAK COUNTING RATE: 17000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 22/ 9/ 95 IS:
RA= 198.524 DEC= 62.566 DIST= 2.658 AU
BATSE-ULYSSES DISTANCE = 397696042. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=144.44 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1079.24 SECS.
CROSSING TIME AT ULYSSES IS 14414. S. OR 04:00:13 +/- 167.53 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 22/ 9/ 95 IS:
RA= 217.328 DEC= -15.123 DIST= 2.111 AU
MARS-BATSE DISTANCE = 315817568. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=119.16 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -513.27 SECS.
CROSSING TIME AT MARS IS 14980. S. OR 04:09:39 +/- 151.92 SECONDS

BATSE BURST TRIGGER

NO.: 3814

TIME: TJD=9982 SECONDS=15493

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=57.0 AZIMUTH=282.6 ERROR=3.8 DEGREES

COMMENTS:

GRB. DURATION ~ 10 S. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3814	950922	9982	15493	17000	245	+40	10

95	7	1	117	23737	23737	3658
95	7	6	121	42735	42735	3662
95	7	11	123	13789	13789	3663
95	7	13	BGR	32133	32176	3664
95	7	30	128	76149	76124	3720
95	8	4	131	7135	07134	3734
95	8	4	133	45377	45376	3735
95	8	8	BGR	13023	12974	3745
95	8	9	136	85945	85945	3750
95	8	18	137	5065	05002	3765
95	8	22	140	13751	13749	3767
95	9	4	142	52692	52688	3776
95	9	9	145	85473	85452	3788
95	9	19	151	51465	51447	3806
95	9	21	152	20947	20947	3811
95	9	22	BGR	15495		
95	9	22	BGR	25929		
95	9	26	BGR	63919		
95	10	1	153	41907		
95	10	2	BGR	77583		3843
95	10	4	BGR	83974		
95	10	5	154	14842.112		
95	10	8	156	46287.863		
95	10	10	BGR	11774		
95	10	11	157	77693.094		3860
95	10	13	159	57097.299		
95	10	14	160	13108.167		
95	10	14	161	43561.3		
95	10	16	162	02484.285		3870
95	10	16	BGR	71607		3871
95	10	18	163	19832.069		
95	10	19	64	11712.625		
95	10	19	165	48244.594		3875
95	10	25	167	85239.738		
95	11	2	168	07085.879		
95	11	2	69	21209.015		3891
95	11	2	BGR	28693		
95	11	5	BGR	01745		
95	11	5	170	05868.077		3893
95	11	5	171	46827.808		
95	11	7	BGR	27298		
95	11	11	BGR	34960		
95	11	12	172	66495.244		
95	11	13	173	84358.872		3906
95	11	15	BGR	38929		
95	11	17	175	10123.762		
95	11	18	BGR	82560		
95	11	19	176	29831.402		3912
95	11	19	177	46457.519		
95	11	19		59448		
95	11	21		22280		
95	11	22	179	09841.38		
95	11	22	180	17107.738		
95	11	23	BGR	65408		
95	11	24	BGR	21266		3918
95	11	24	BGR	25132		

 -- T. L. Cline ----- LHEAVX::CLINE

From cline@lheavx.gsfc.nasa.gov Fri Jan 26 13:00 PST 1996
 Date: Fri, 26 Jan 1996 13:00:45 -0800
 Mime-Version: 1.0
 To: KHURLEY@sunspot.ssl.berkeley.edu
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: Improved list; same question.

Dear Kevin,

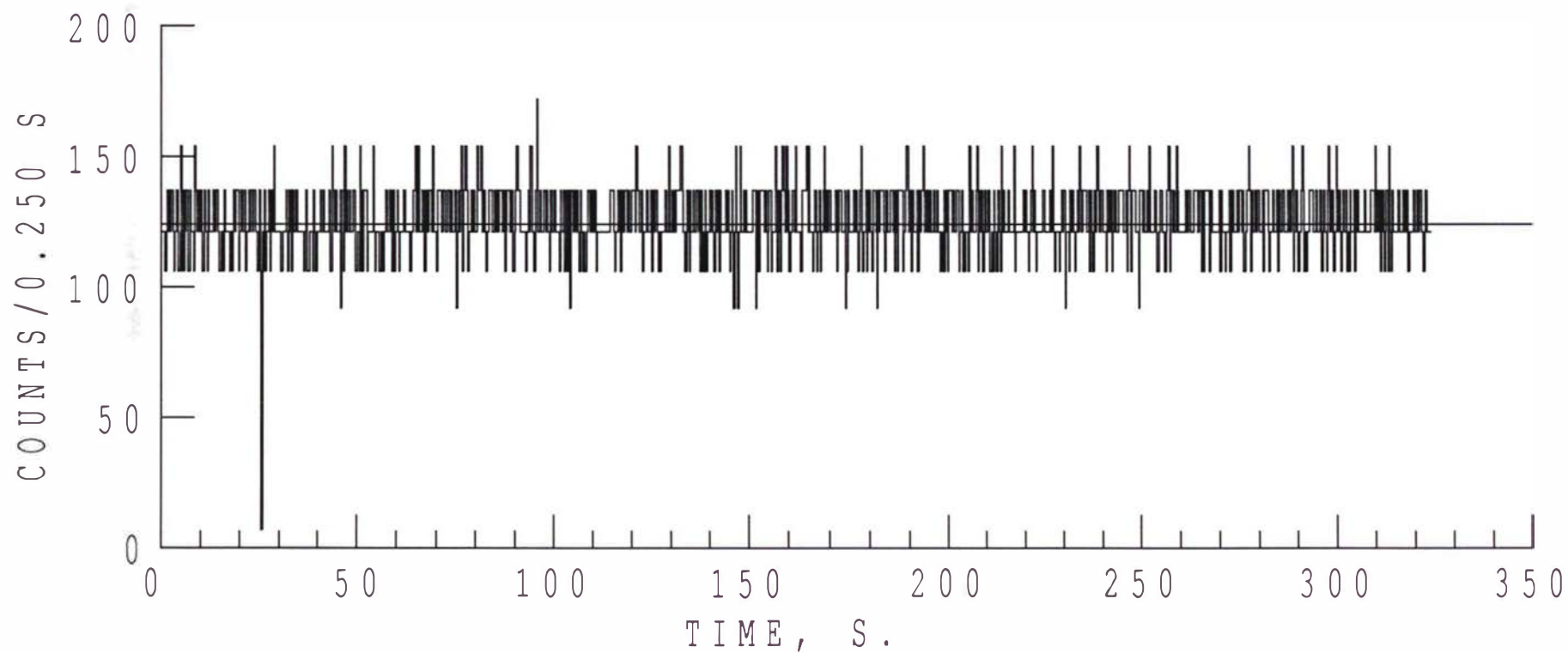
I'm making a little progress here, tracking down these events. This is a slightly improved list, with a few more BATSE triggers identified. - TLC

Yr	Mn	Dy	Konus#	Konus Tzero	BATSE Tz, #	Ulysses
94	11	14	BGR	07360	07358	3283 - NO
94	11	19	4	70269.175	70250	3287 R I
94	11	21	6	62700.945	62697	3290 trig.
94	11	25	7	79470.156	79470	3295 R I
94	11	26	BGR	01246	01245	3296
94	11	26	8	44557.952	44521	3298 trig.
94	11	26	BGR	60860	60861	3299
94	11	26	9	71809.732	71798	3301 R I
94	11	27	10	52225.68	52217	3303 R I
94	11	28	BGR	56220	56217	3305
94	12	28	28	27585.915	27581	3330 R I
94	12	29	29	82268.781	82258	3334 R I
95	1	4	31	26319.613	26319	3345 R I
95	1	11	33	17352.241	17263	3351 R I
95	1	11	34	44329	44310	3352
95	1	17	BGR	05760	05761	3360
95	1	18	BGR	44574	44589	3364
95	2	7	BGR	02774	02781	3406
95	2	8	45	07824	07824	3408
95	2	10	47	08424	08421	3410
95	2	11	48	08697	08697	3412 trig.
95	2	11	50	72469	72468	3415
95	2	21	BGR	74701	74705	3436
95	2	26	54	53351	53336	3442
95	3	1	BGR	75731	75761	3448
95	3	4	56	37661	37657	3453
95	3	5	58	54309	54304	3458
95	3	10	BGR	78388	78395	3464
95	3	25	63	25841	25844	3480
95	3	25	64	63392	63391	3481
95	3	27	BGR	26323	26347	3485
95	3	27	BGR	85672	85671	3486
95	4	1	69	42647	42642	3488
95	4	1	70	74635	74634	3489
95	4	3	71	47985	47987	3491
95	4	3	72	84828	84826	3492
95	4	16	BGR	48420	48419	3509
95	4	18	81	83793	83795	3512
95	4	25	86	00923	00919	3523
95	4	30	BGR	54224	54229	3527
95	5	3	88	66971	66970	3537
95	5	10	90	28083	28079	3569
95	5	13	93	81706	81703	3571
95	5	21	97	25161	25157	3588
95	5	22	98	23898	23896	3590
95	5	22	100	85280	85283	3593
95	5	24	102	14902	14899	3598
95	6	2	104	25592	25592	3618
95	6	10	107	6849	06849	3637
95	6	24	111	84124	84084	3648
95	6	25	113	14626	14601	3649
95	6	29	115	37033	37036	3654
95	7	1	116	12762	12758	3657

26 / 9 / 95

ULYSSES RT
22 / 9 / 95 14256.145 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From mkippen@comptel.unh.edu Thu Sep 21 21:45 PDT 1995
From: RMKIPPEN@unh.edu (R Marc Kippen)
Subject: GRB950922: COMPTEL BURST POSITION NOTICE
Date: Fri, 22 Sep 1995 00:43:24 -0400 (EDT)
To: burstmail@comptel.unh.edu
Cc: mkippen@comptel.unh.edu

NOTICE_HEAD: COMPTEL BURST POSITION NOTICE: GRB950922
NOTICE_TYPE: INITIAL
NOTICE_DATE: Fri Sep 22 04:38:47 GMT 1995
ORIG_SENDER: burst@comptel.unh.edu

BURST_DATE : 9982 TJD; 22-Sep-1995
BURST_TIME : 15494.00 sec; 04:18:14.00 UT

NOTE01-----: Rapid COMPTEL localization of this burst
NOTE02-----: is not possible.
NOTE03-----: -----
NOTE04-----: Please DO NOT reply to this message!
NOTE05-----: Address questions to either:
NOTE06-----: Marc Kippen (rmkippen@unh.edu) or
NOTE07-----: Tom Harrison (tharriso@nmsu.edu)

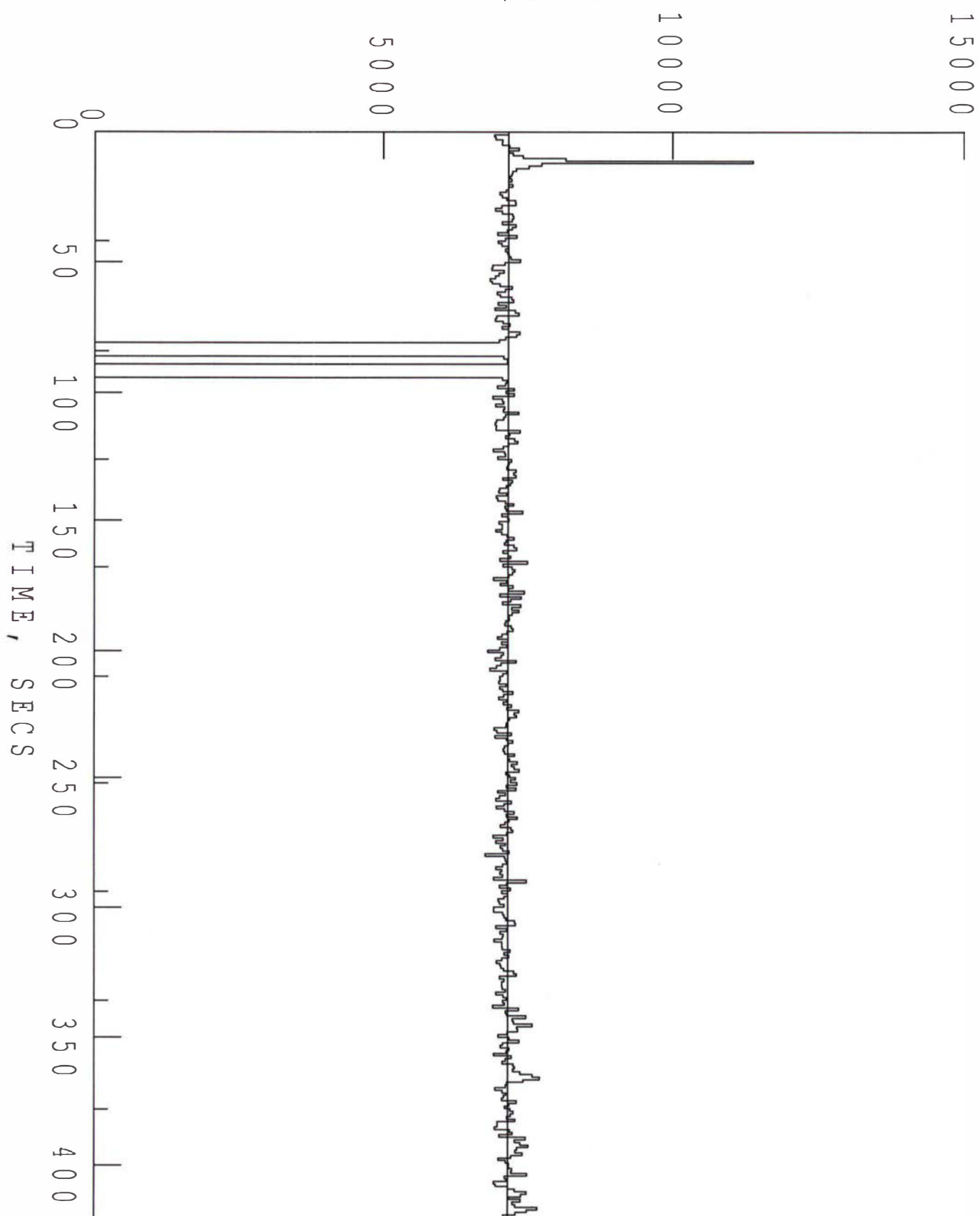
BACODINE

22/09/95

15483.569

25 - 100 keV

COUNTS/1.024 S



From RICHARDSON@SSLLES.MSFC.NASA.GOV Mon Sep 25 09:36 PDT 1995
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
Date: Mon, 25 Sep 1995 11:36:27 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3815

BATSEARCH PROGRAM

NO

BATSE BURST # 3815
EVENT OF 1995 SEP 22 DAY OF YEAR=265
EVENT CROSSING TIME AT BATSE : 25930. S. OR 07:12:10.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 161.000 37.000
BATSE PEAK COUNTING RATE: 10000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 22/ 9/ 95 IS:
RA= 198.574 DEC= 62.534 DIST= 2.659 AU
BATSE-ULYSSES DISTANCE = 397813424. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=145.68 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1095.97 SECS.
CROSSING TIME AT ULYSSES IS 24834. S. OR 06:53:54 +/- 163.24 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 22/ 9/ 95 IS:
RA= 217.328 DEC= -15.123 DIST= 2.111 AU
MARS-BATSE DISTANCE = 315817568. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=105.69 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -284.91 SECS.
CROSSING TIME AT MARS IS 25645. S. OR 07:07:25 +/- 171.75 SECONDS

BATSE BURST TRIGGER

NO.: 3815

TIME: TJD=9982 SECONDS=25930

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=113.9 AZIMUTH=311.4 ERROR=1.6 DEGREES

COMMENTS:

GRB. SINGLE PULSE WITH STRUCTURE. DUR.~8 SEC. NOT VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3815	950922	9982	25930	10000	161	+37	8

95	7	1	117	23737	23737	3658
95	7	6	121	42735	42735	3662
95	7	11	123	13789	13789	3663
95	7	13	BGR	32133	32176	3664
95	7	30	128	76149	76124	3720
95	8	4	131	7135	07134	3734
95	8	4	133	45377	45376	3735
95	8	8	BGR	13023	12974	3745
95	8	9	136	85945	85945	3750
95	8	18	137	5065	05002	3765
95	8	22	140	13751	13749	3767
95	9	4	142	52692	52688	3776
95	9	9	145	85473	85452	3788
95	9	19	151	51465	51447	3806
95	9	21	152	20947	20947	3811
95	9	22	BGR	15495		
95	9	22	BGR	25929		
95	9	26	BGR	63919		
95	10	1	153	41907		
95	10	2	BGR	77583		3843
95	10	4	BGR	83974		
95	10	5	154	14842.112		
95	10	8	156	46287.863		
95	10	10	BGR	11774		
95	10	11	157	77693.094		3860
95	10	13	159	57097.299		
95	10	14	160	13108.167		
95	10	14	161	43561.3		
95	10	16	162	02484.285		3870
95	10	16	BGR	71607		3871
95	10	18	163	19832.069		
95	10	19	64	11712.625		
95	10	19	165	48244.594		3875
95	10	25	167	85239.738		
95	11	2	168	07085.879		
95	11	2	69	21209.015		3891
95	11	2	BGR	28693		
95	11	5	BGR	01745		
95	11	5	170	05868.077		3893
95	11	5	171	46827.808		
95	11	7	BGR	27298		
95	11	11	BGR	34960		
95	11	12	172	66495.244		
95	11	13	173	84358.872		3906
95	11	15	BGR	38929		
95	11	17	175	10123.762		
95	11	18	BGR	82560		
95	11	19	176	29831.402		3912
95	11	19	177	46457.519		
95	11	19		59448		
95	11	21		22280		
95	11	22	179	09841.38		
95	11	22	180	17107.738		
95	11	23	BGR	65408		
95	11	24	BGR	21266		3918
95	11	24	BGR	25132		

-- T. L. Cline ----- LHEAVX::CLINE

From cline@lheavx.gsfc.nasa.gov Fri Jan 26 13:00 PST 1996
 Date: Fri, 26 Jan 1996 13:00:45 -0800
 Mime-Version: 1.0
 To: KHURLEY@sunspot.ssl.berkeley.edu
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: Improved list; same question.

Dear Kevin,

I'm making a little progress here, tracking down these events. This is a slightly improved list, with a few more BATSE triggers identified. - TLC

Yr	Mn	Dy	Konus#	Konus Tzero	BATSE Tz, #	Ulysses
94	11	14	BGR	07360	07358 3283	- NO
94	11	19	4	70269.175	70250 3287	R I
94	11	21	6	62700.945	62697 3290	trig.
94	11	25	7	79470.156	79470 3295	R I
94	11	26	BGR	01246	01245 3296	
94	11	26	8	44557.952	44521 3298	trig.
94	11	26	BGR	60860	60861 3299	
94	11	26	9	71809.732	71798 3301	R I
94	11	27	10	52225.68	52217 3303	R I
94	11	28	BGR	56220	56217 3305	
94	12	28	28	27585.915	27581 3330	R I
94	12	29	29	82268.781	82258 3334	R I
95	1	4	31	26319.613	26319 3345	R I
95	1	11	33	17352.241	17263 3351	R I
95	1	11	34	44329	44310 3352	
95	1	17	BGR	05760	05761 3360	
95	1	18	BGR	44574	44589 3364	
95	2	7	BGR	02774	02781 3406	
95	2	8	45	07824	07824 3408	
95	2	10	47	08424	08421 3410	
95	2	11	48	08697	08697 3412	trig.
95	2	11	50	72469	72468 3415	
95	2	21	BGR	74701	74705 3436	
95	2	26	54	53351	53336 3442	
95	3	1	BGR	75731	75761 3448	
95	3	4	56	37661	37657 3453	
95	3	5	58	54309	54304 3458	
95	3	10	BGR	78388	78395 3464	
95	3	25	63	25841	25844 3480	
95	3	25	64	63392	63391 3481	
95	3	27	BGR	26323	26347 3485	
95	3	27	BGR	85672	85671 3486	
95	4	1	69	42647	42642 3488	
95	4	1	70	74635	74634 3489	
95	4	3	71	47985	47987 3491	
95	4	3	72	84828	84826 3492	
95	4	16	BGR	48420	48419 3509	
95	4	18	81	83793	83795 3512	
95	4	25	86	00923	00919 3523	
95	4	30	BGR	54224	54229 3527	
95	5	3	88	66971	66970 3537	
95	5	10	90	28083	28079 3569	
95	5	13	93	81706	81703 3571	
95	5	21	97	25161	25157 3588	
95	5	22	98	23898	23896 3590	
95	5	22	100	85280	85283 3593	
95	5	24	102	14902	14899 3598	
95	6	2	104	25592	25592 3618	
95	6	10	107	6849	06849 3637	
95	6	24	111	84124	84084 3648	
95	6	25	113	14626	14601 3649	
95	6	29	115	37033	37036 3654	
95	7	1	116	12762	12758 3657	

25 / 9 / 95

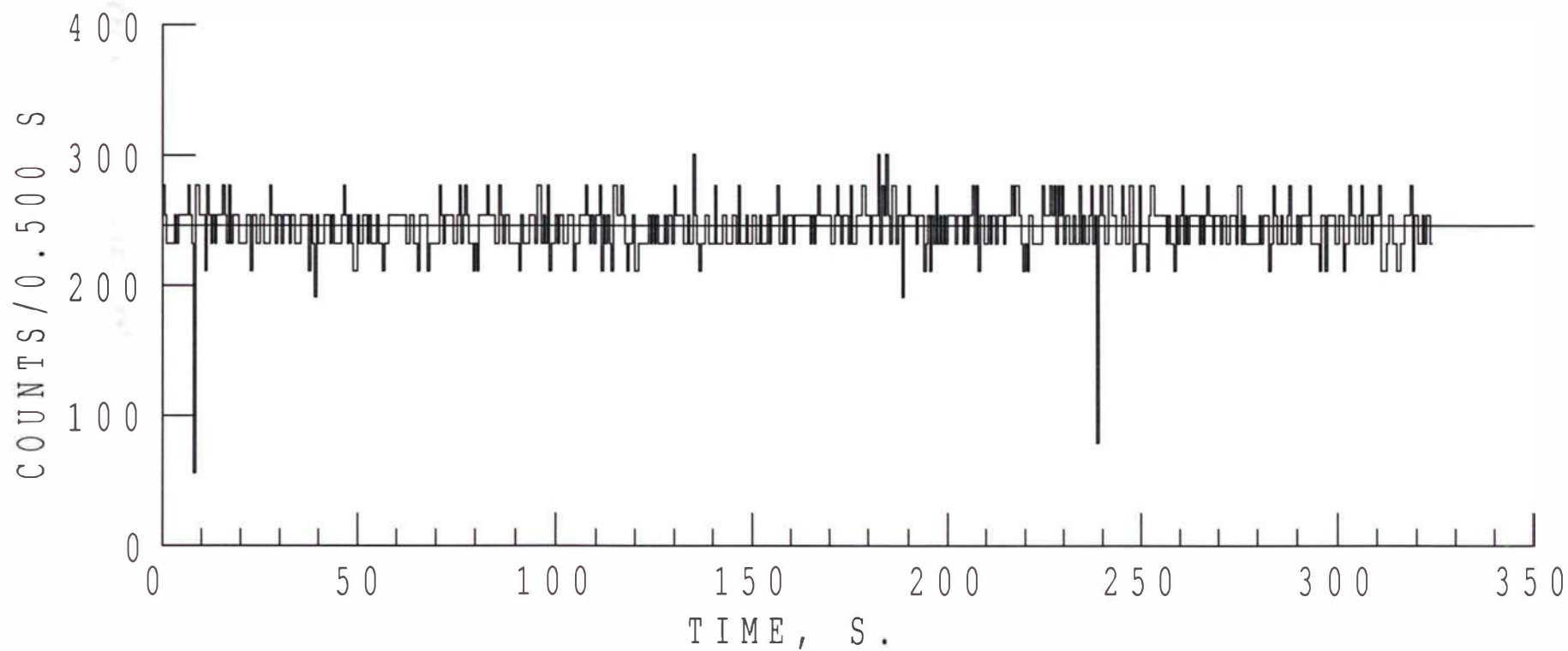
ULYSSES RT

22 / 9 / 95 24660.320 s

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



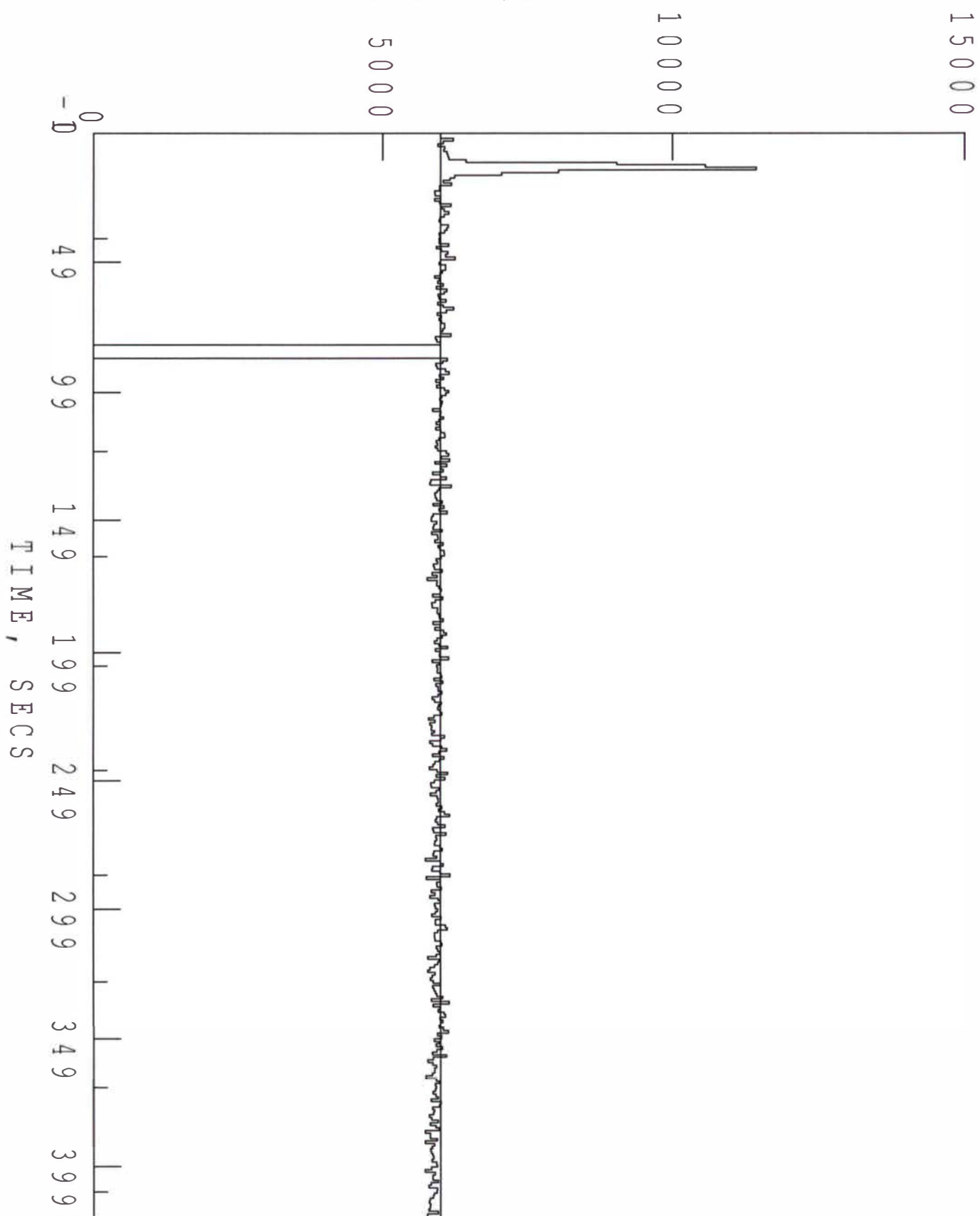
BACODINE

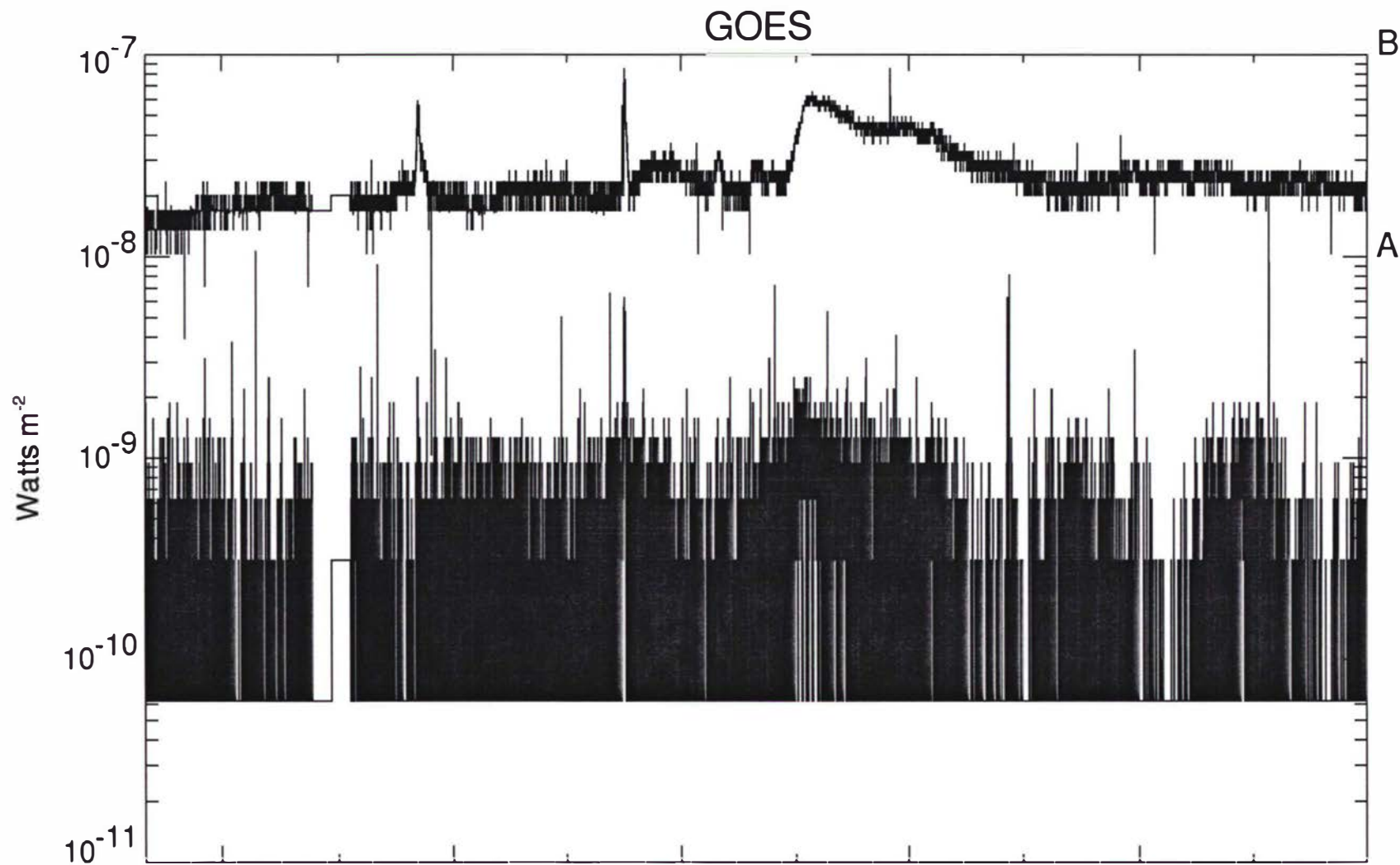
22/09/95

25920.177

25 - 100 keV

COUNTS/1.024 S





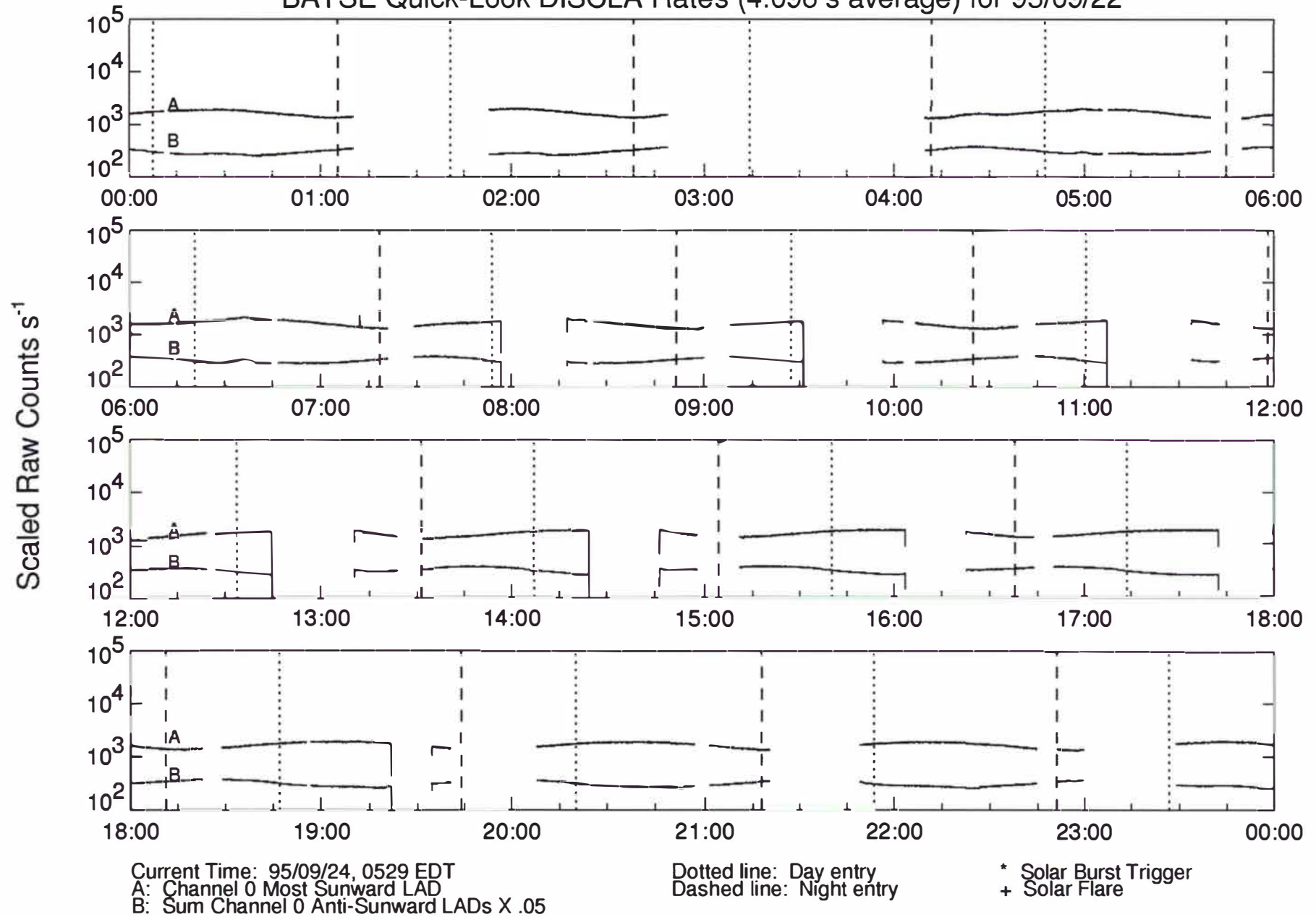
Data Start: 95/09/22, 1320:33

Plot created: 95/09/24, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

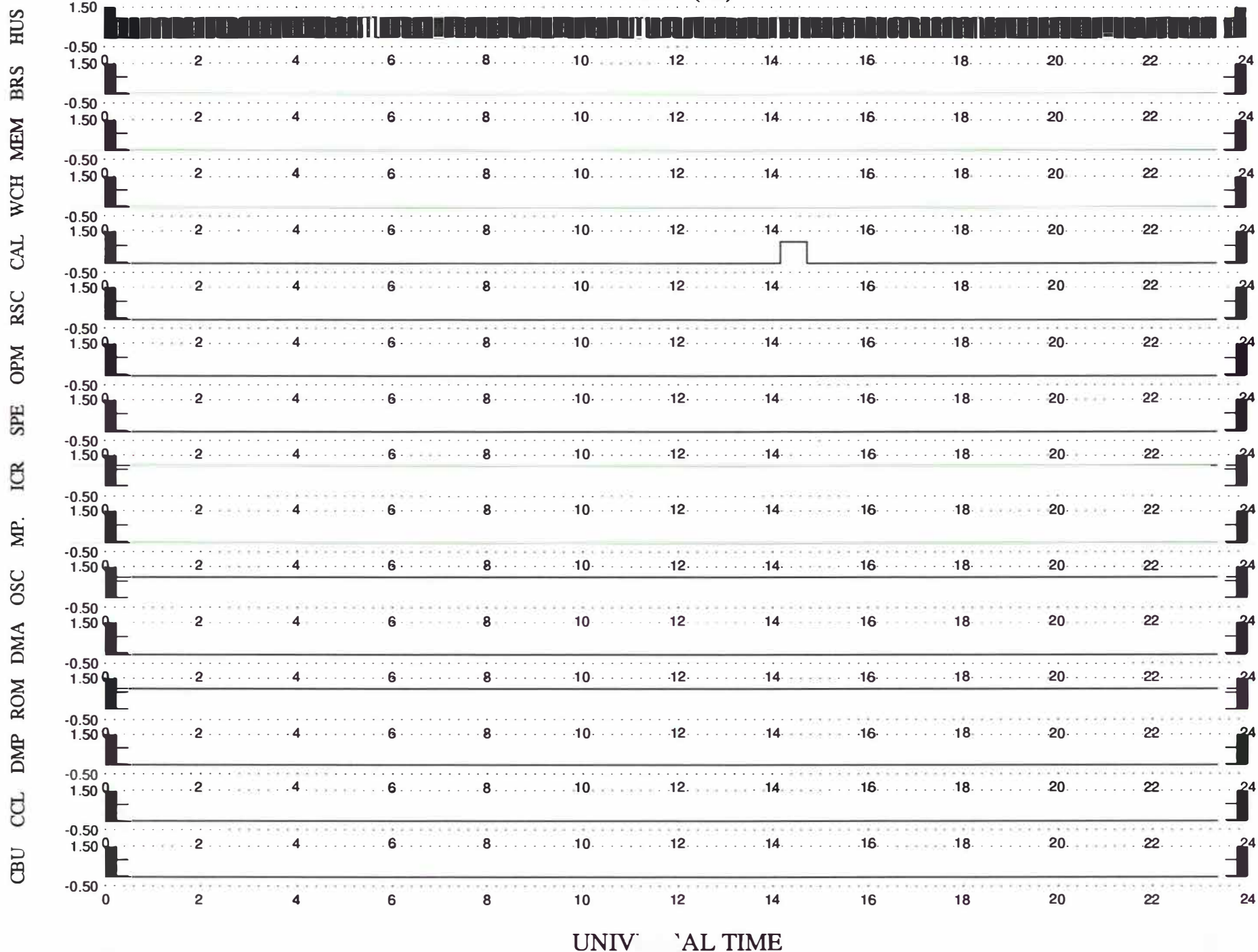
BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/22





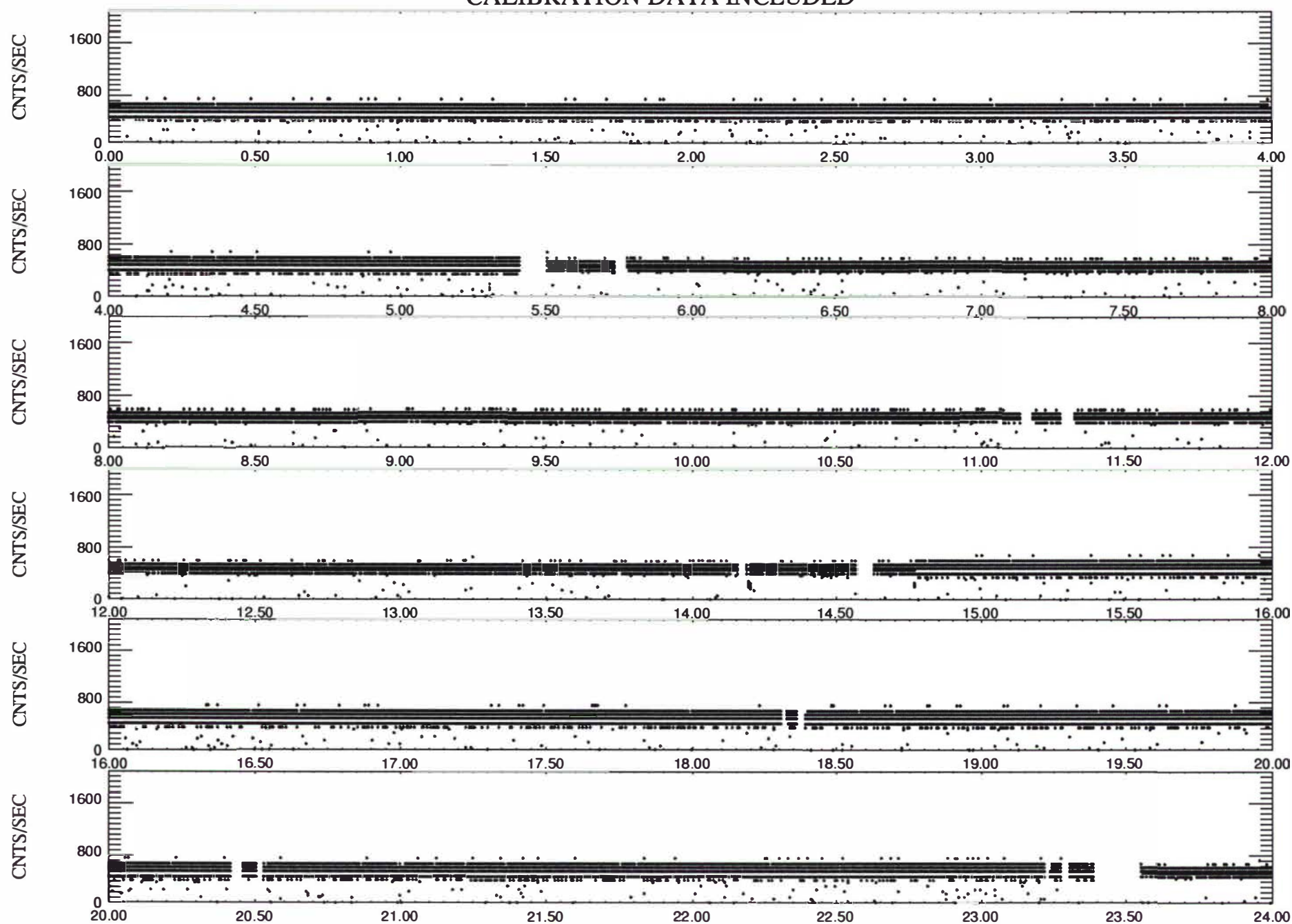
HUS MODES EDR day 265, year 1995 to day 265, year 1995 NO BURST (15)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 265, year 1995 to day 265, year 1995
CALIBRATION DATA INCLUDED

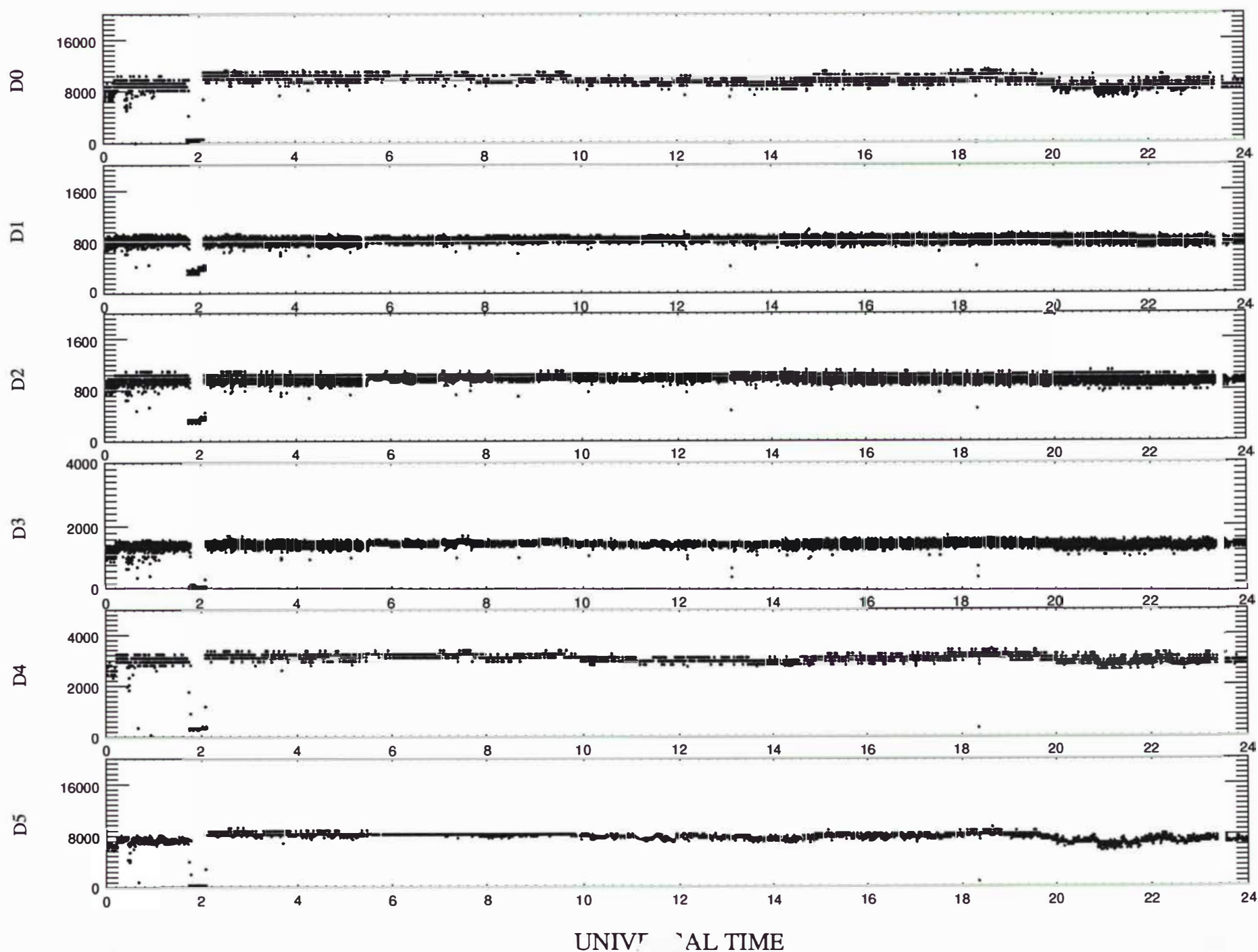
1/25/96

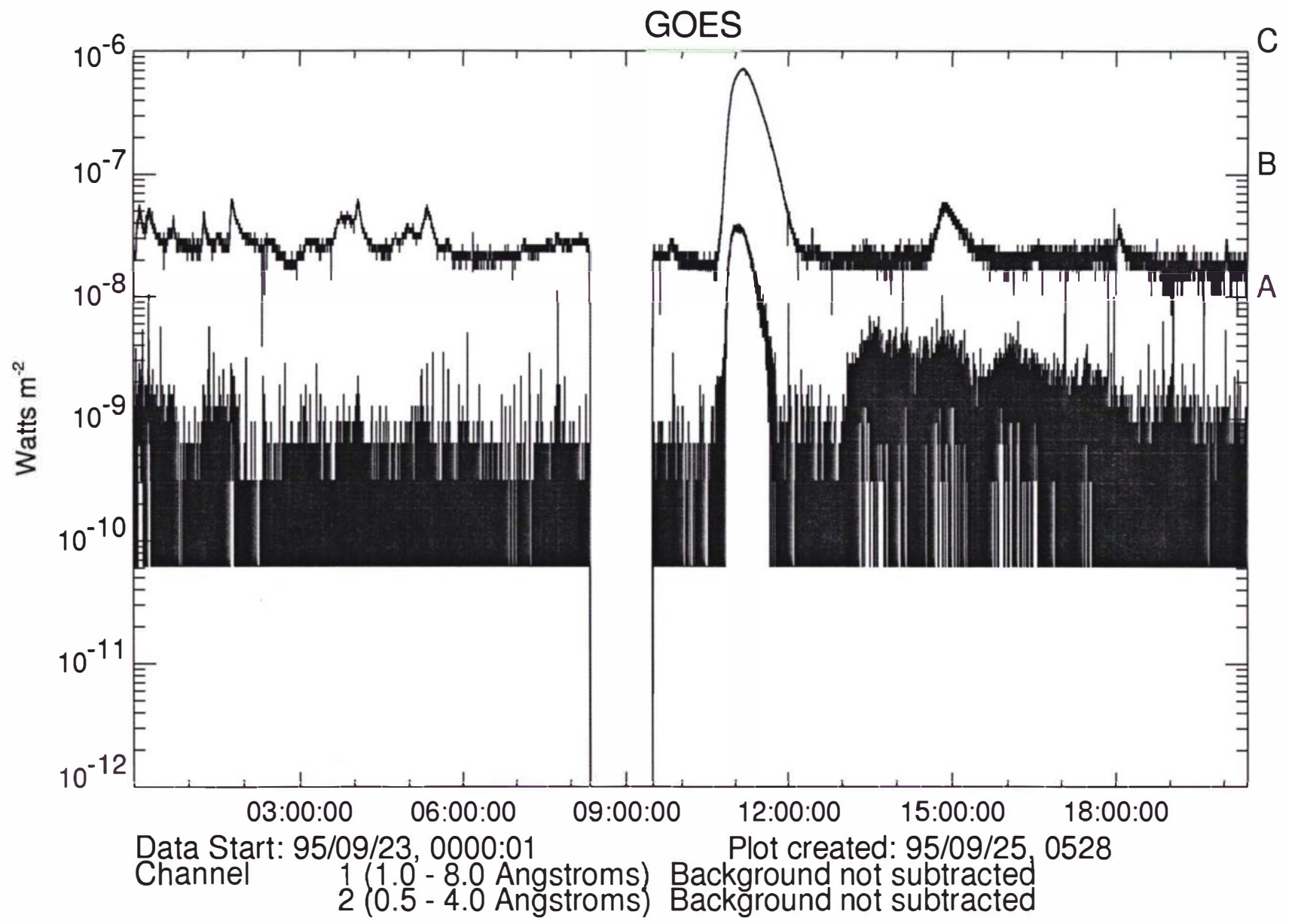


UNIVERSAL TIME

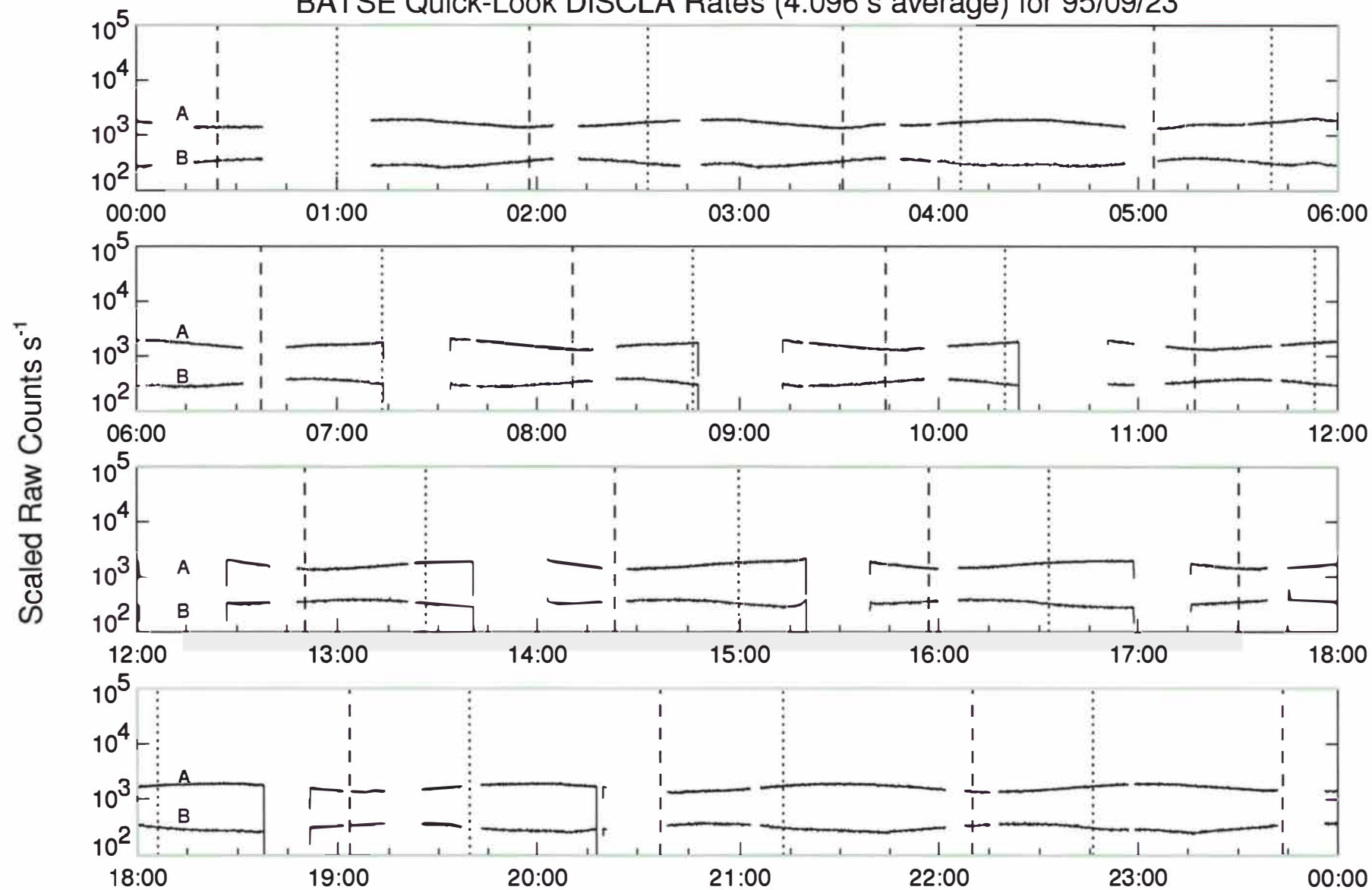
HUS 2B COUNTS / SEC QEDR day 265, year 1995 to day 265, year 1995

9/25/95





BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/23



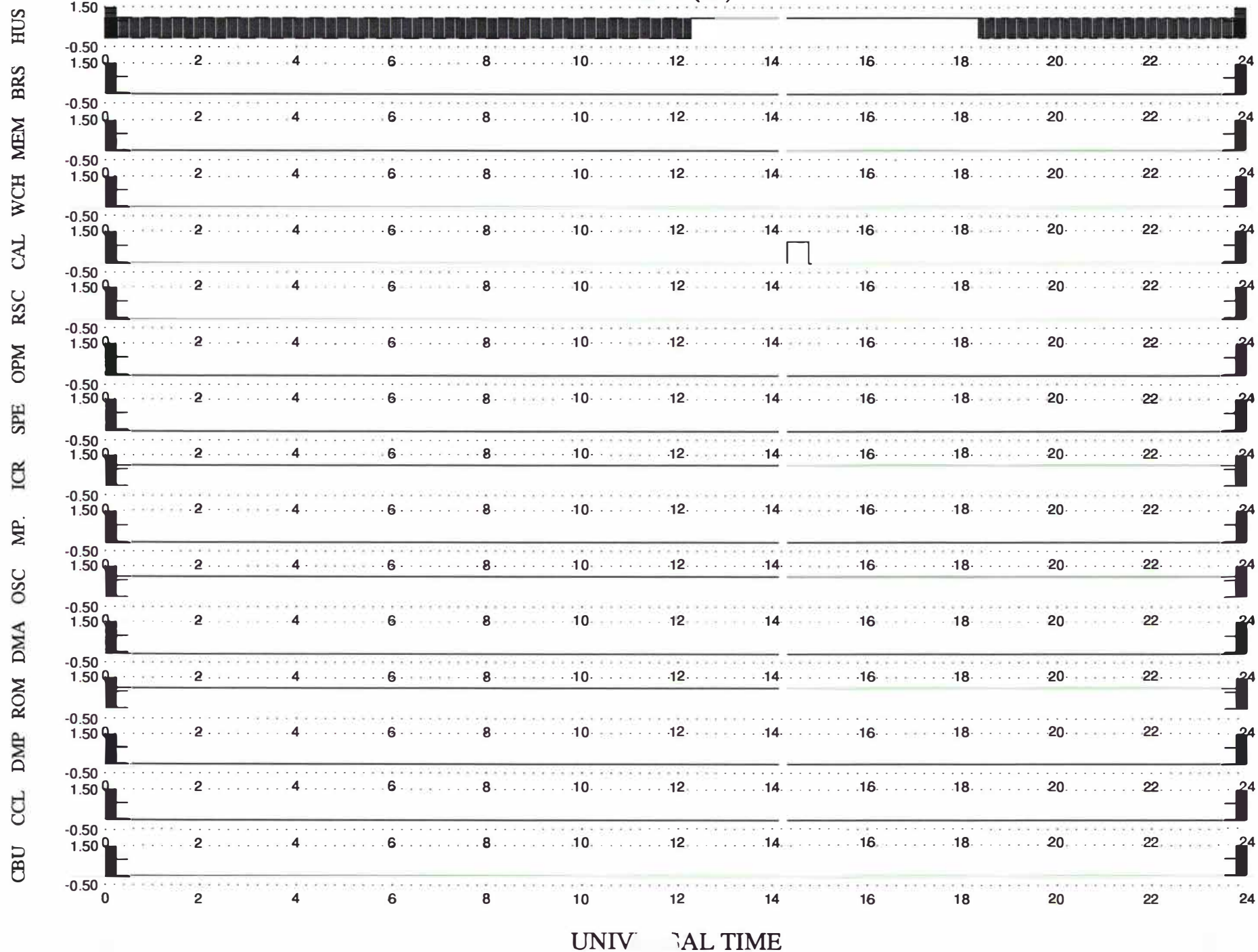
Current Time: 95/09/25, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

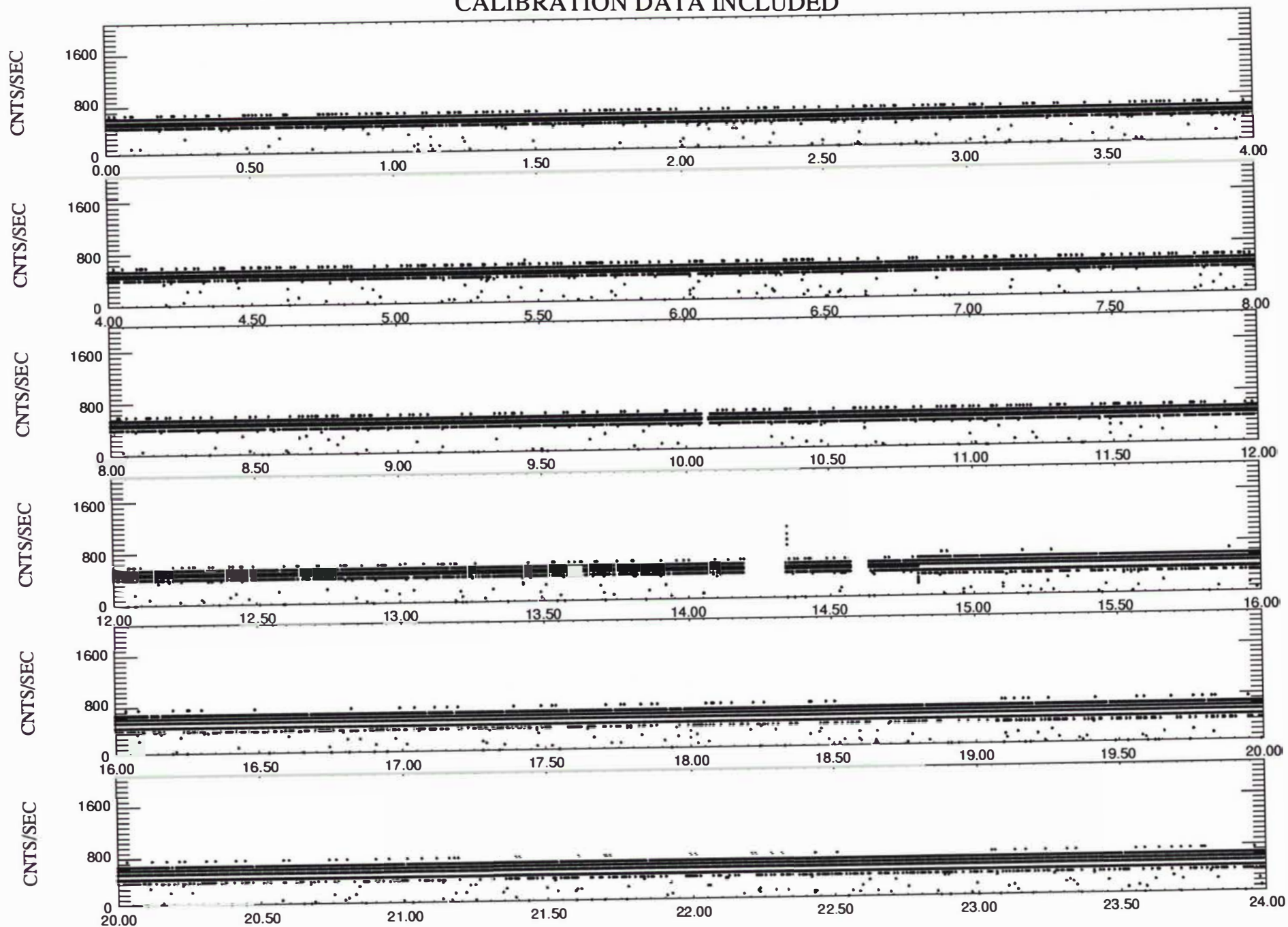
HUS MODES EDR day 266, year 1995 to day 266, year 1995 NO BURST (15)

1/25/96

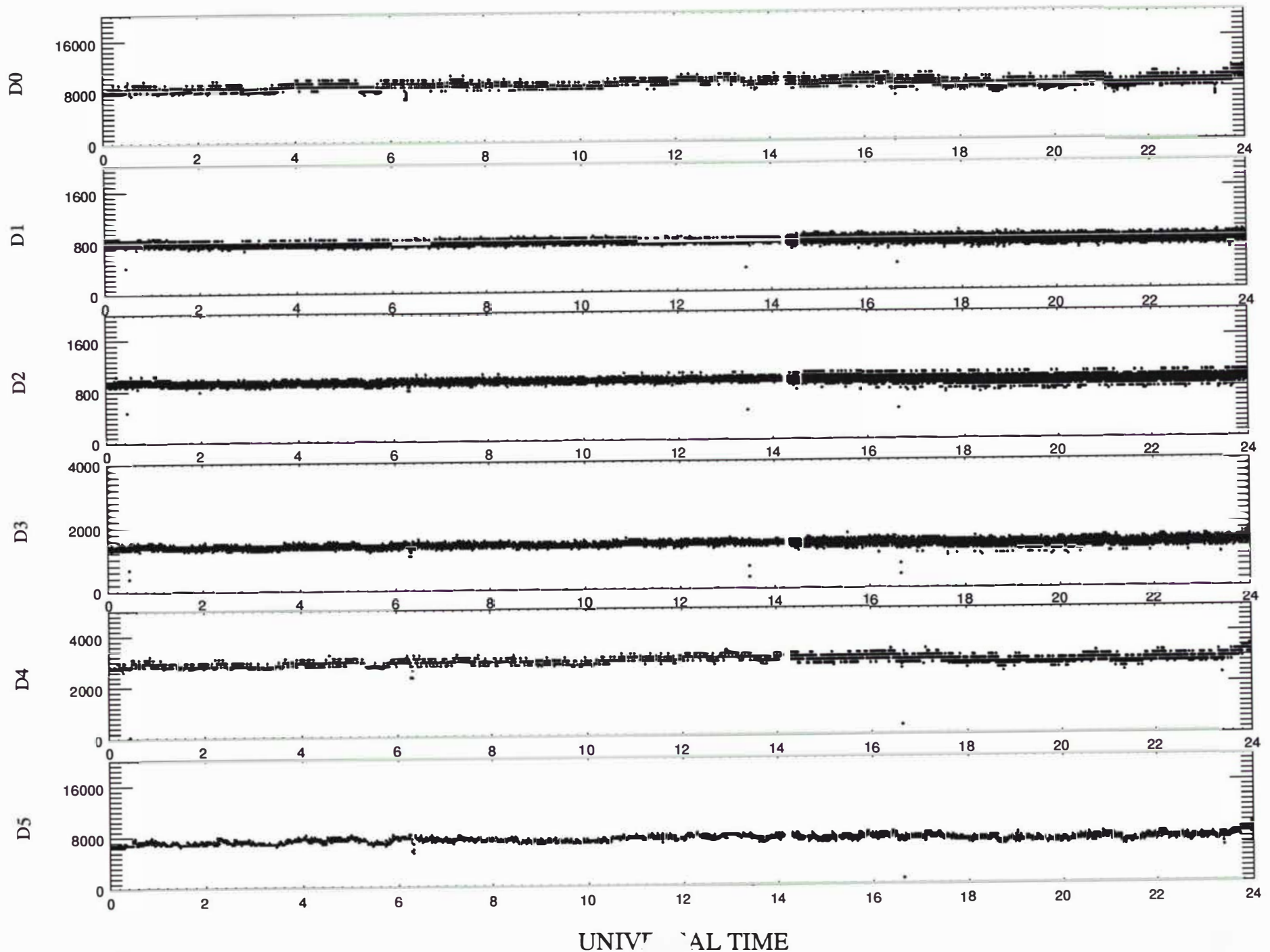


HUS 2A, MODE 1, NOT AVERAGED EDR day 266, year 1995 to day 266, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV CAL TIME



From BUTTERWORTH@LHEAVX.GSFC.NASA.GOV Wed Sep 27 09:39 PDT 1995
From: BUTTERWORTH@LHEAVX.GSFC.NASA.GOV
Date: Wed, 27 Sep 1995 12:33:30 -0400 (EDT)
To: khurley@sunspot.ssl.berkeley.edu, kmarar@isac.ernet.in,
CLINE@LHEAVX.GSFC.NASA.GOV, scott@circe.gsfc.nasa.gov
CC: BUTTERWORTH@LHEAVX.GSFC.NASA.GOV
Subject: Konus didn't see anything unusual near the Ulysses 24 Sept. trigger

Kevin,

Konus didn't trigger on the 24th and there's nothing visible in the background-mode data for at least 30 minutes on either side of your event time.

Paul.

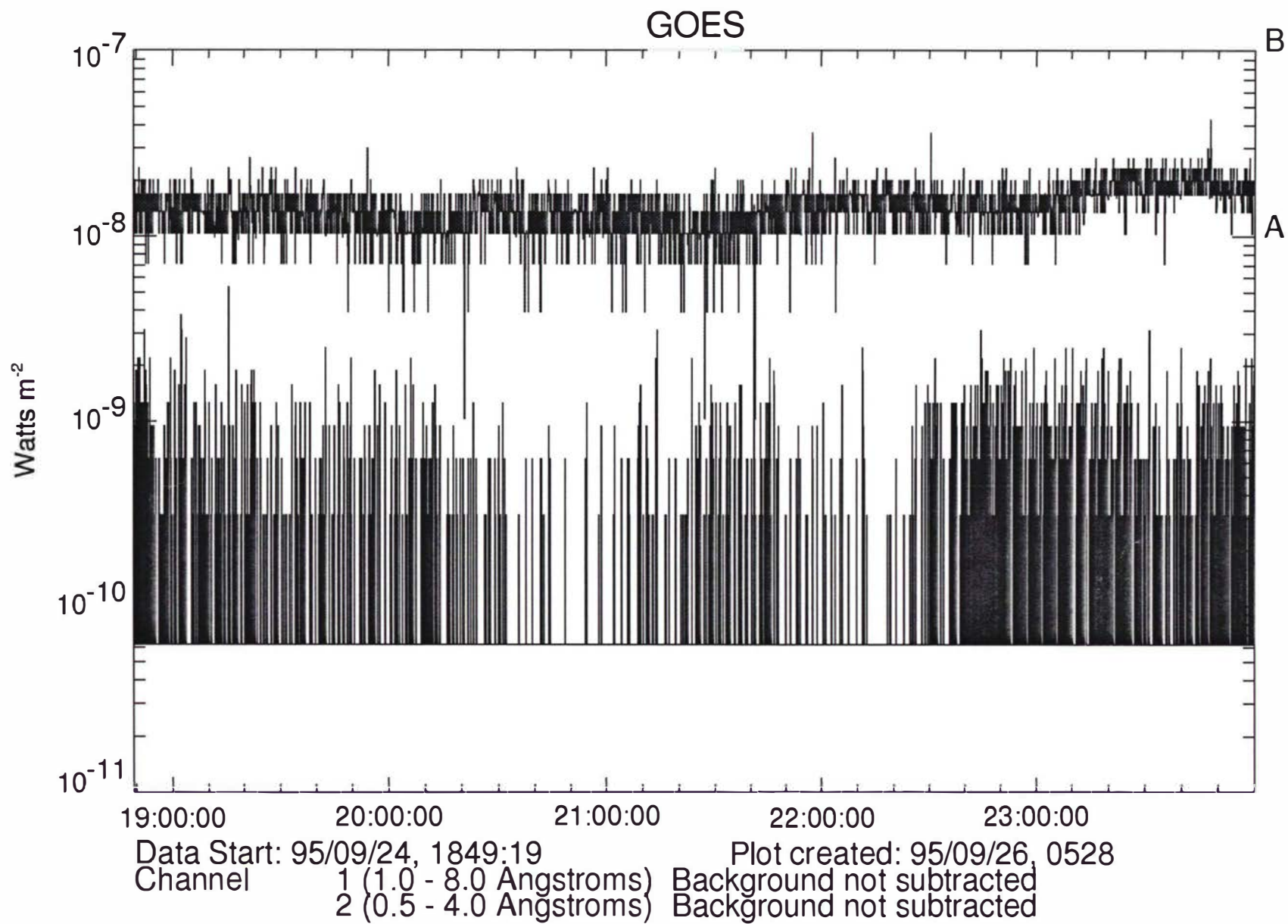
From: SMTP%"khurley@sunspot.ssl.berkeley.edu" 27-SEP-1995 11:58:48.62
To: BUTTERWORTH
CC:
Subj:

Date: Wed, 27 Sep 1995 08:45:26 -0700
From: khurley@sunspot.ssl.berkeley.edu (Kevin Hurley)
Message-Id: <9509271545.AA04343@charybdis.>
To: butterworth@lheavx.gsfc.nasa.gov, cline@lheavx.gsfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu, kmarar@isac.ernet.in,
scott@xtelab.gsfc.nasa.gov

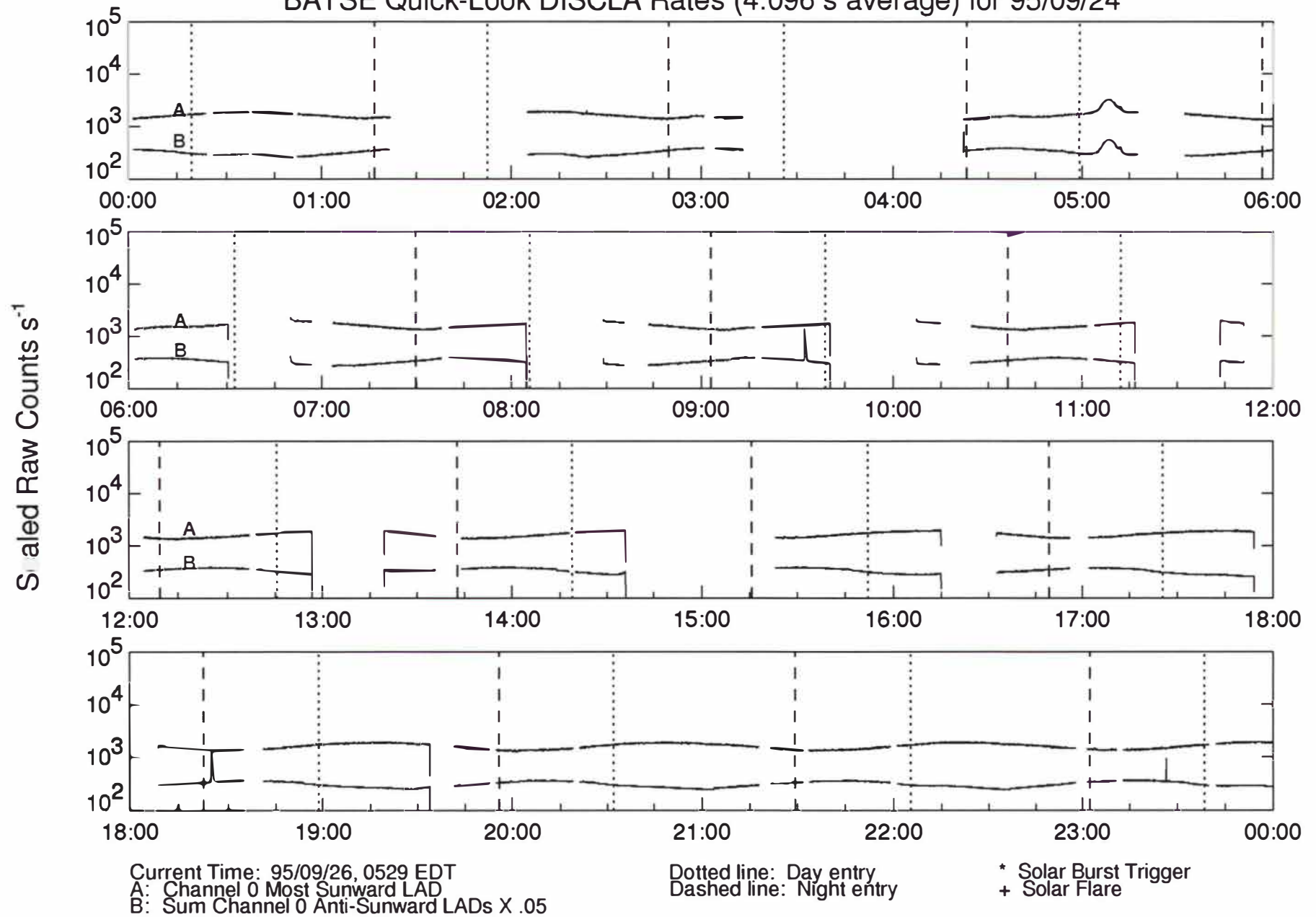
ULYSSES GAMMA-RAY BURST NOT REPORTED BY BATSE:

Ulysses triggered on a 32 ms long event September 24 around 09:38 UT at Ulysses. The spacecraft was about 1300 light-seconds from Earth. Was this event detected by anyone else?

CC: ulyssesbursts alias list
(barthelmy, butterworth, cline, marar)



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/24



From SAHI@ssl.msfc.nasa.gov Tue Sep 26 09:47 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Tue, 26 Sep 1995 11:46:25 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3816

TIME: TJD=9984 SECONDS=18382

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From SAHI@ssl.msfc.nasa.gov Tue Sep 26 09:52 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Tue, 26 Sep 1995 11:51:44 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3817

TIME: TJD=9984 SECONDS=72282

TYPE: CYG X-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

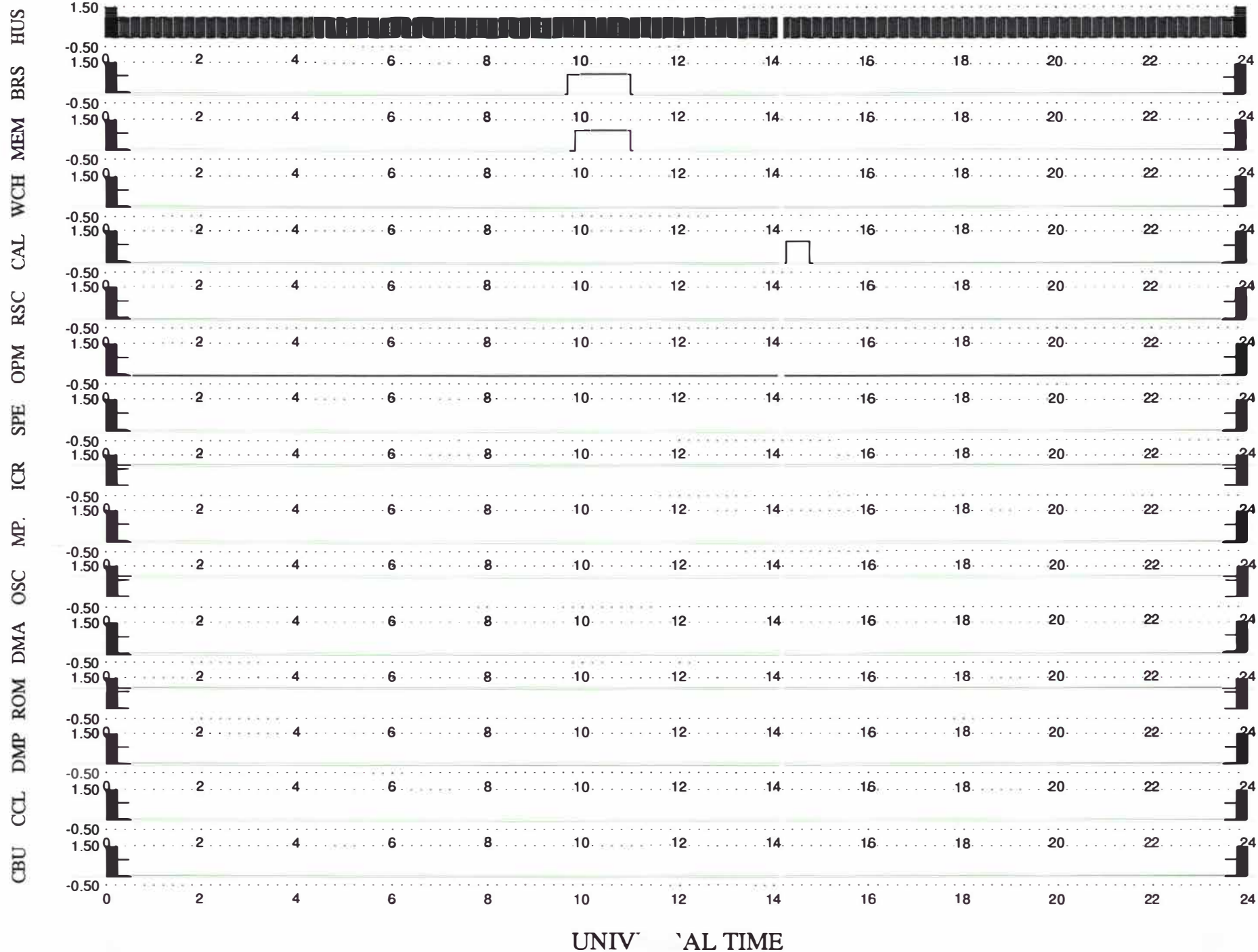
LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION.

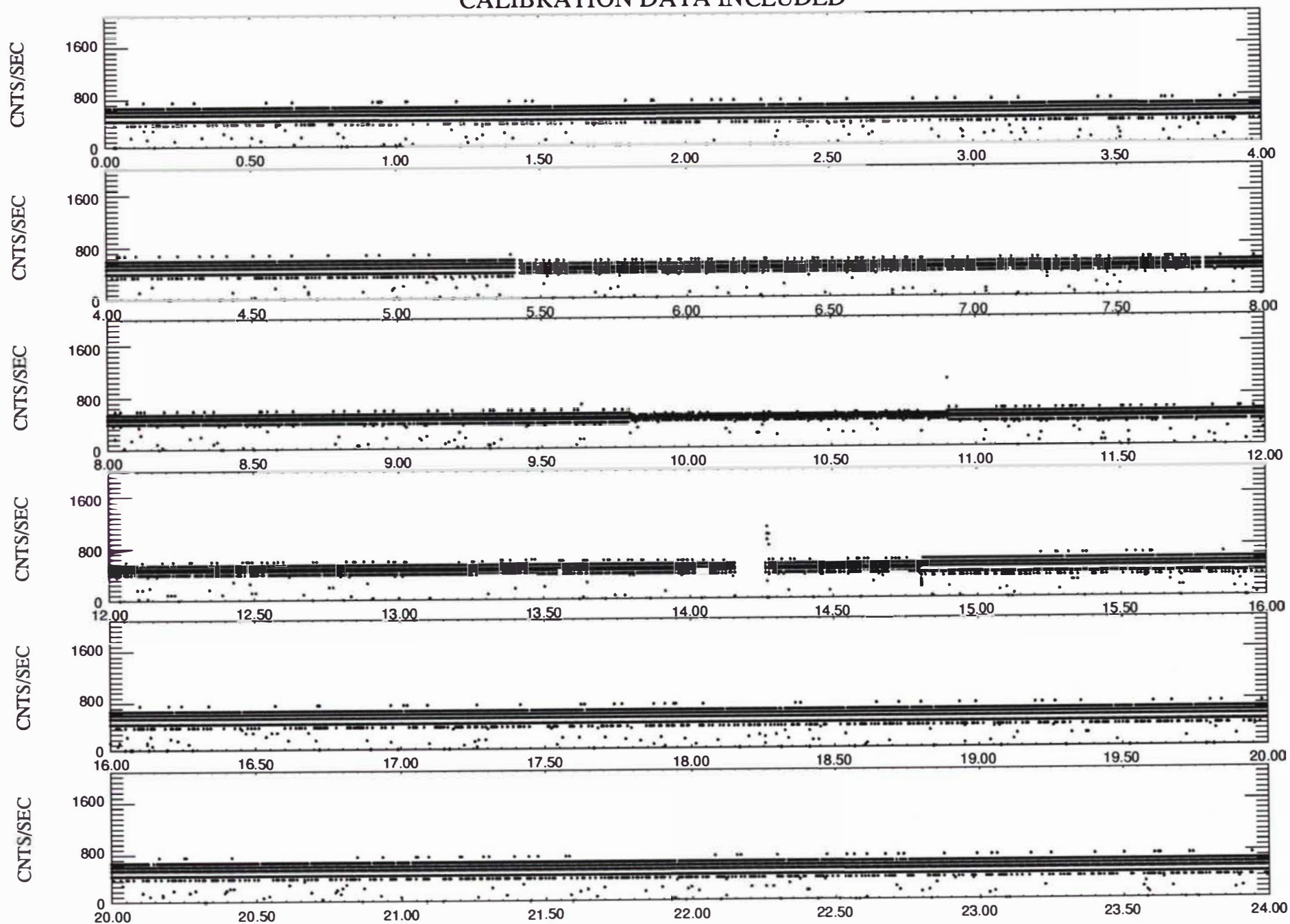
HUS MODES EDR day 267, year 1995 to day 267, year 1995
BURST NUMBER 0

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 267, year 1995 to day 267, year 1995
CALIBRATION DATA INCLUDED

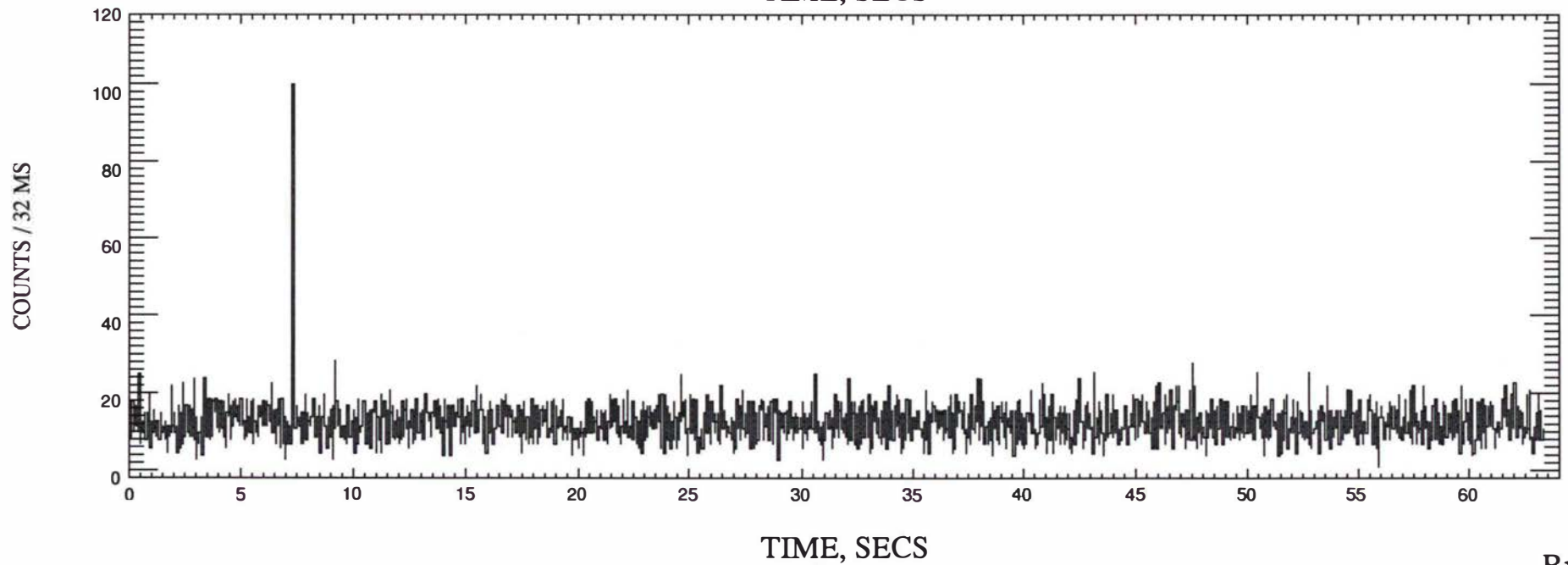
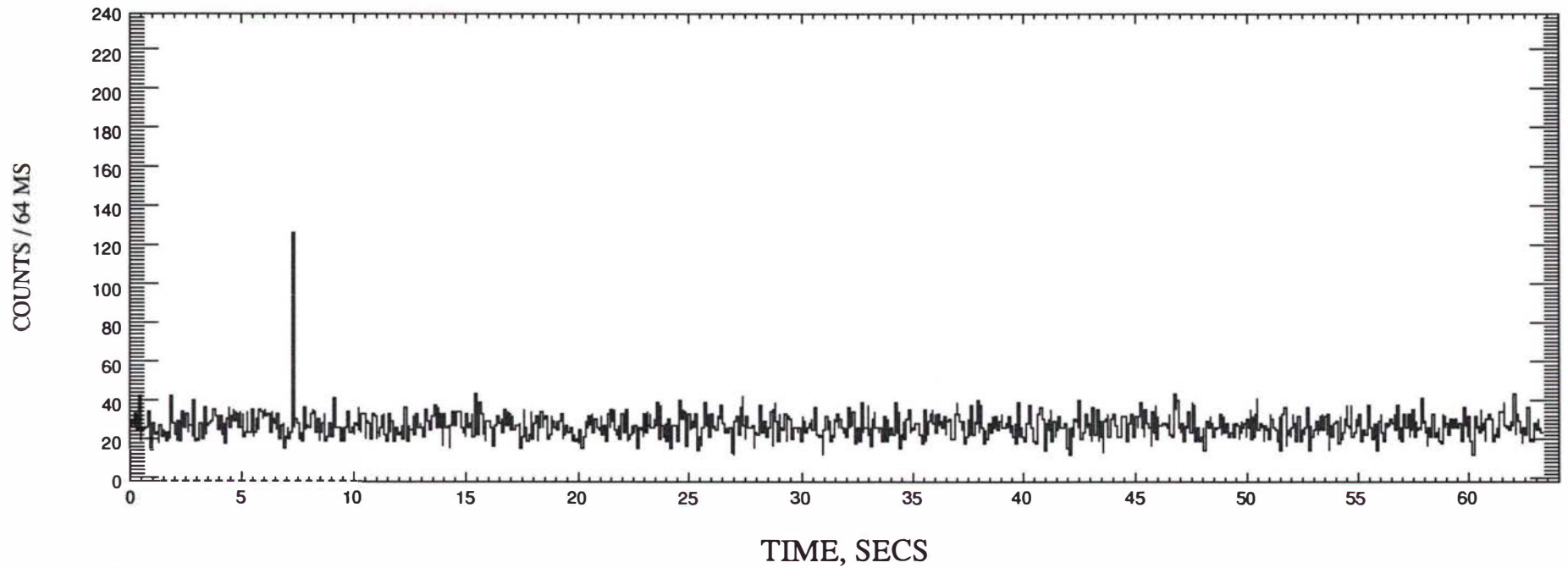
1/25/96



UNIV. TIME

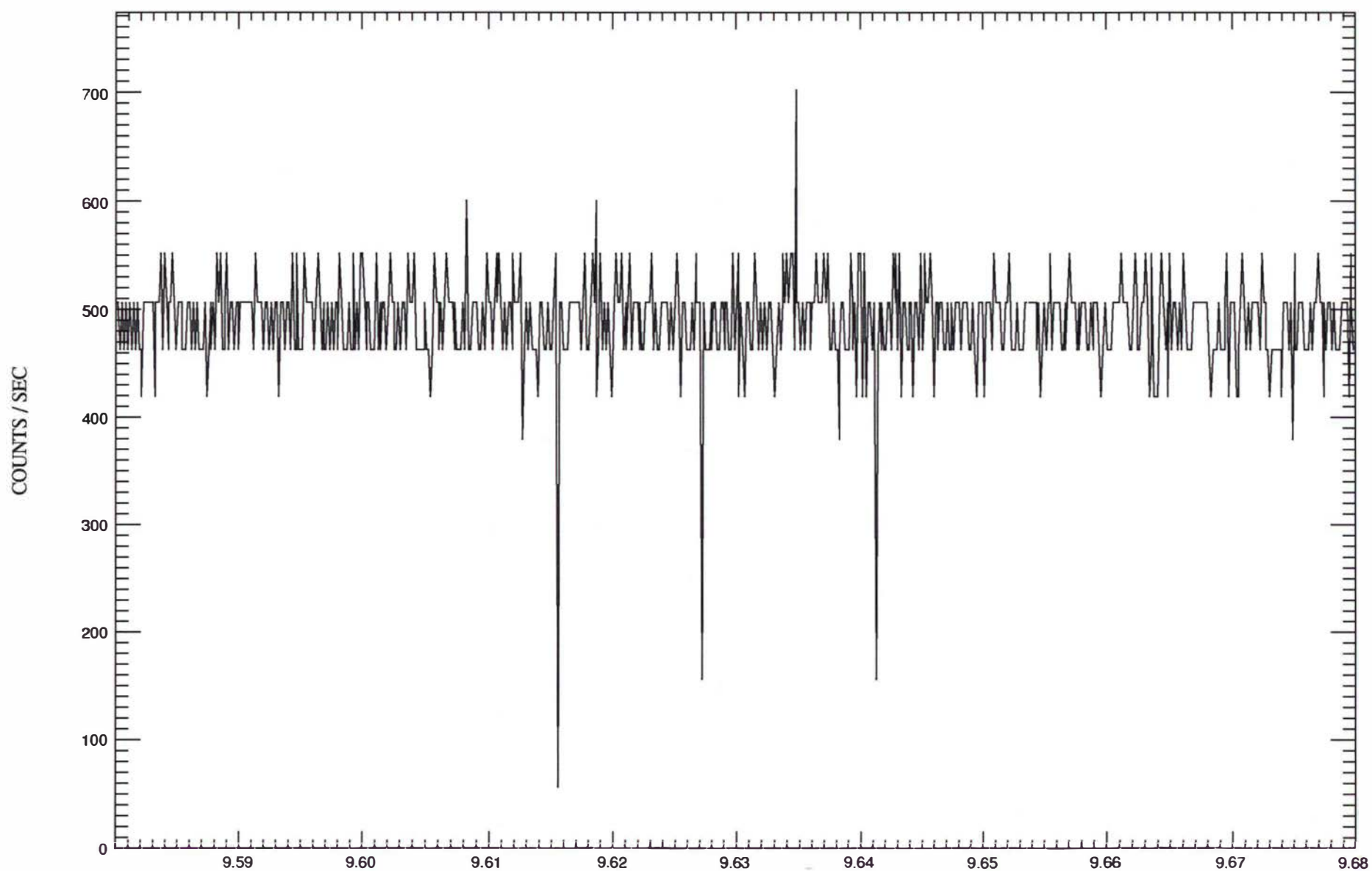
HUS 2A TRIGGERED DATA EDR day 267, year 1995
Burst Counter 0 at UT= 9.634881748623 h=34685.574 s 09:38:05.574

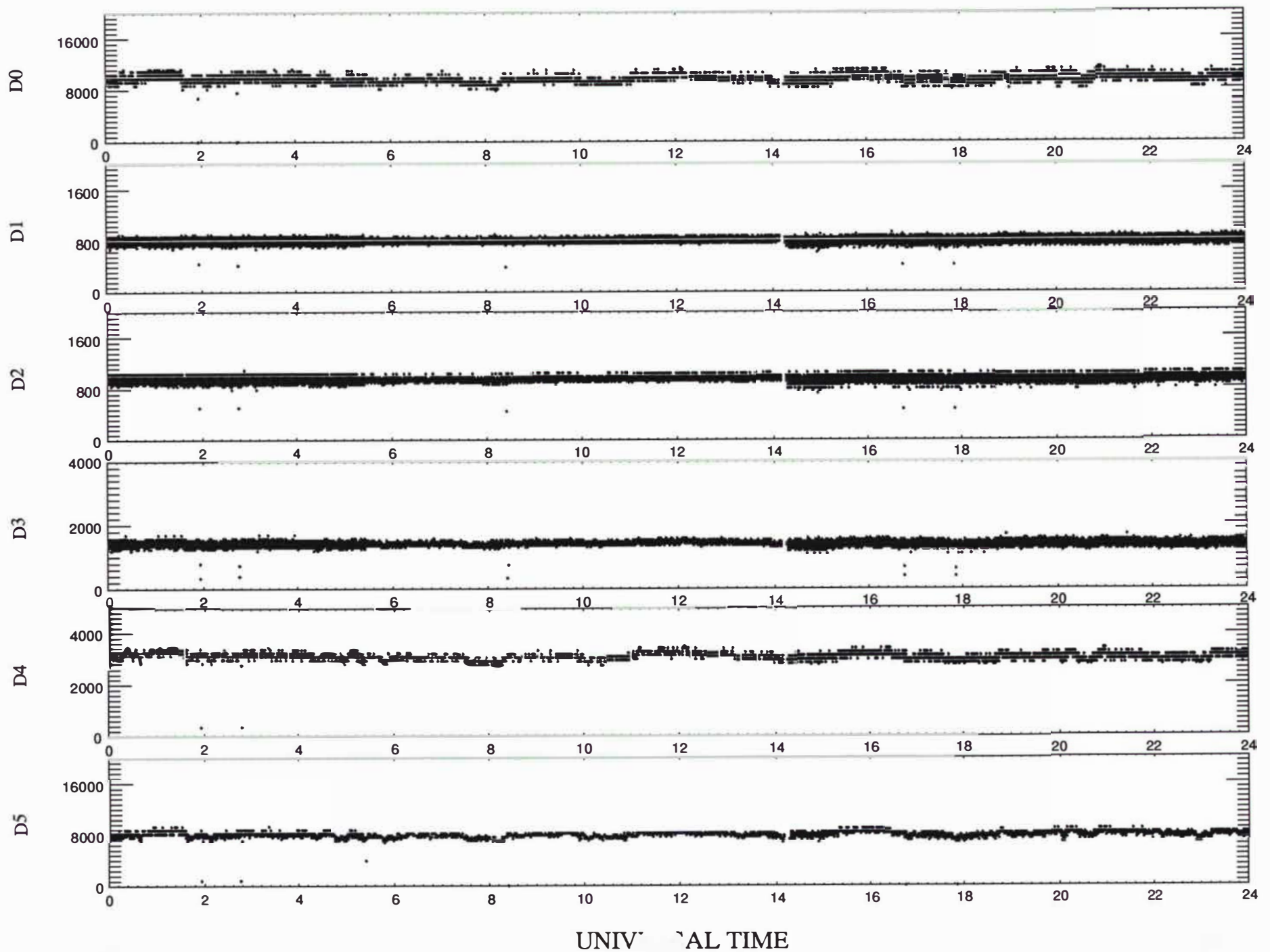
1/25/96



HUS 2A, MODE 1, NOT AVERAGED QEDR day 267, year 1995 to day 267, year 1995
CALIBRATION DATA INCLUDED

9/26/95





From WOODSP@SSLLES.MSFC.NASA.GOV Thu Sep 28 07:24 PDT 1995
From: WOODSP@SSLLES.MSFC.NASA.GOV
Date: Thu, 28 Sep 1995 9:24:11 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3818

TIME: TJD=9985 SECONDS=30739

TYPE: TRANSIE SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

PHOS. SPIKE IN DETECTOR #1 COMBINED WITH A PULSAR FLUCTUATION IN
DETECTOR #6.

From WOODSP@SSLLES.MSFC.NASA.GOV Thu Sep 28 09:26 PDT 1995
From: WOODSP@SSLLES.MSFC.NASA.GOV
Date: Thu, 28 Sep 1995 11:26:11 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3820

TIME: TJD=9987 SECONDS=78114

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

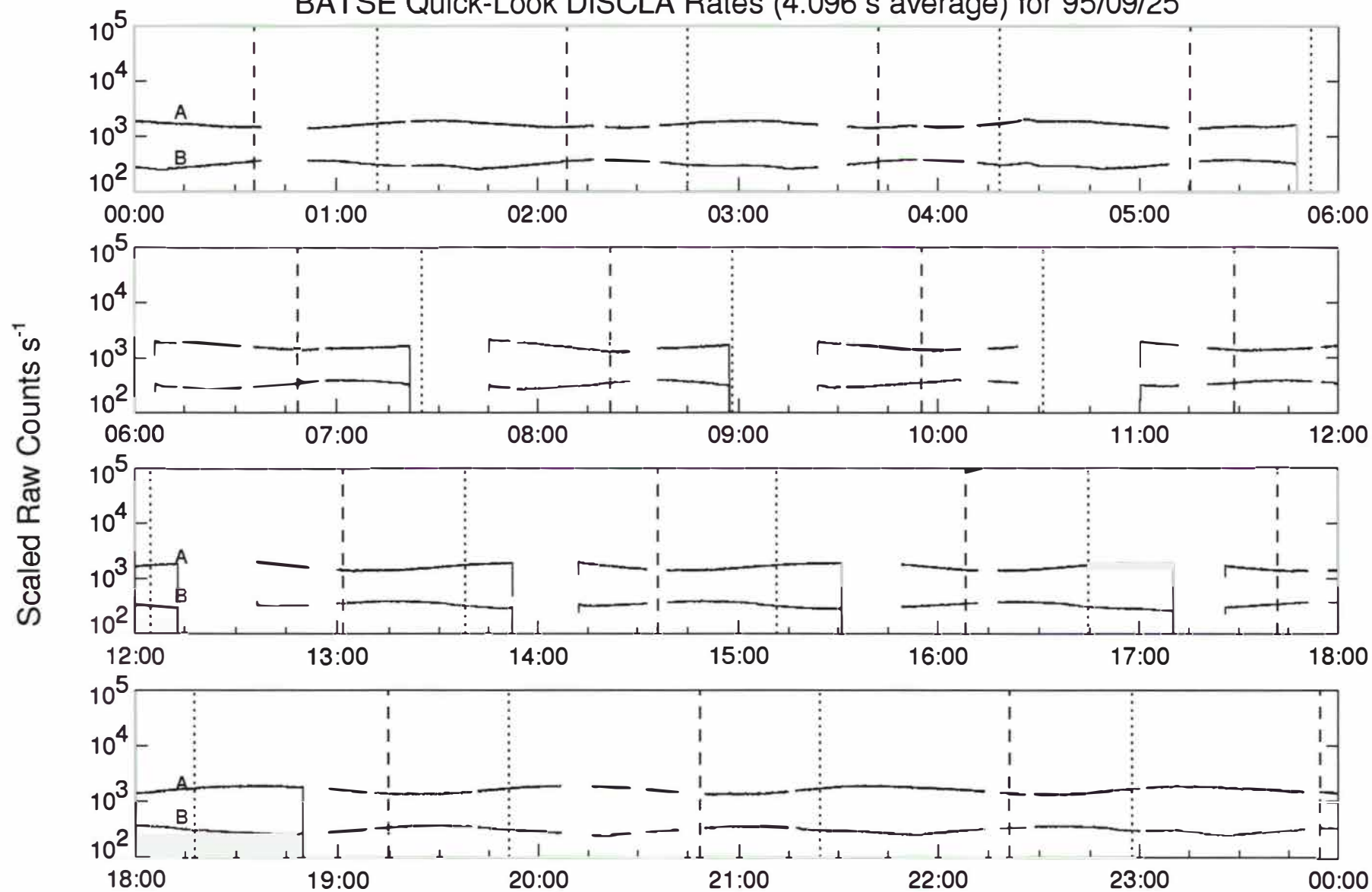
INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

PARTICLE EVENT AT A DISTANCE

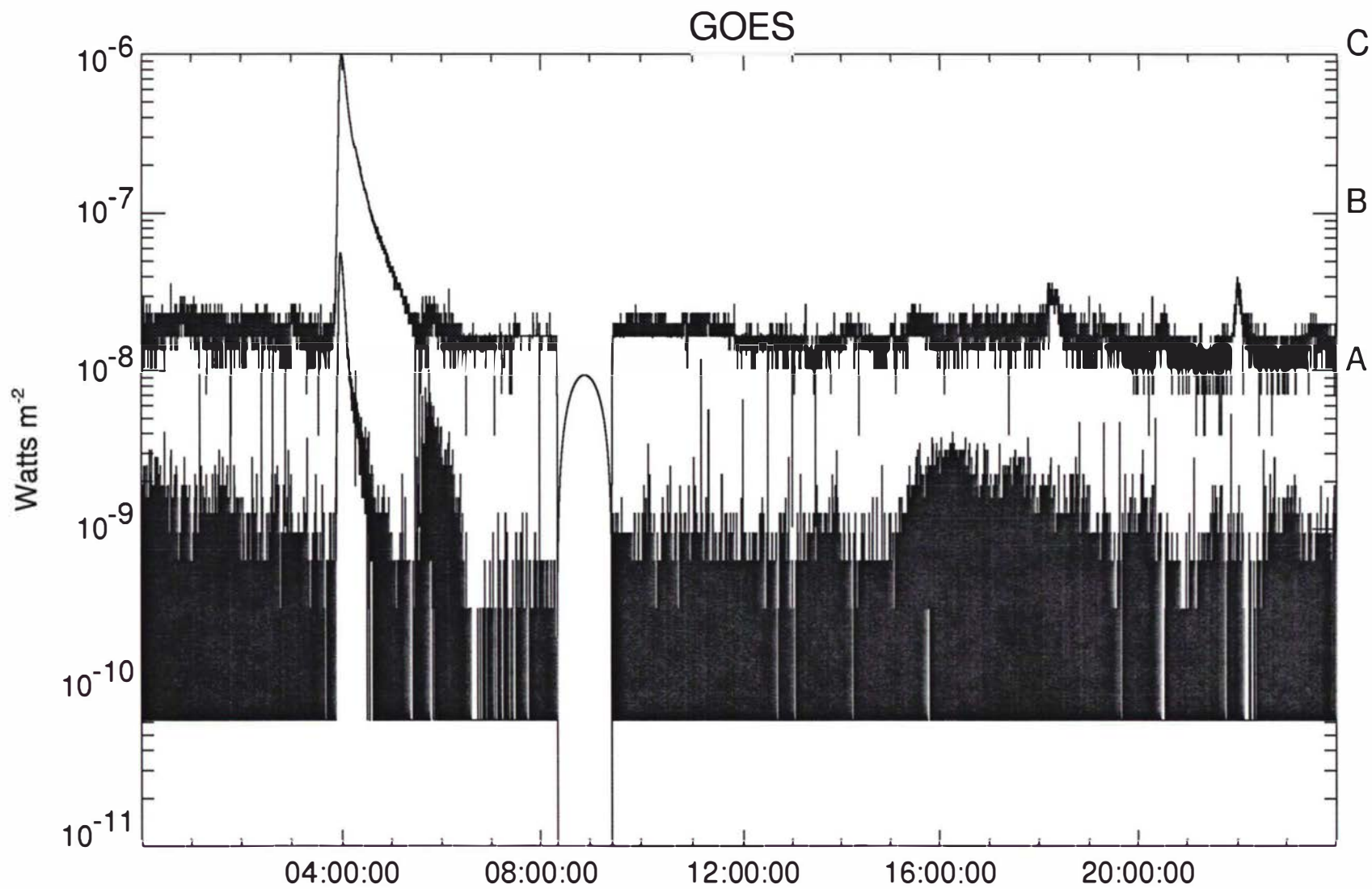
BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/25



Current Time: 95/09/27, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare



Data Start: 95/09/25, 0000:00

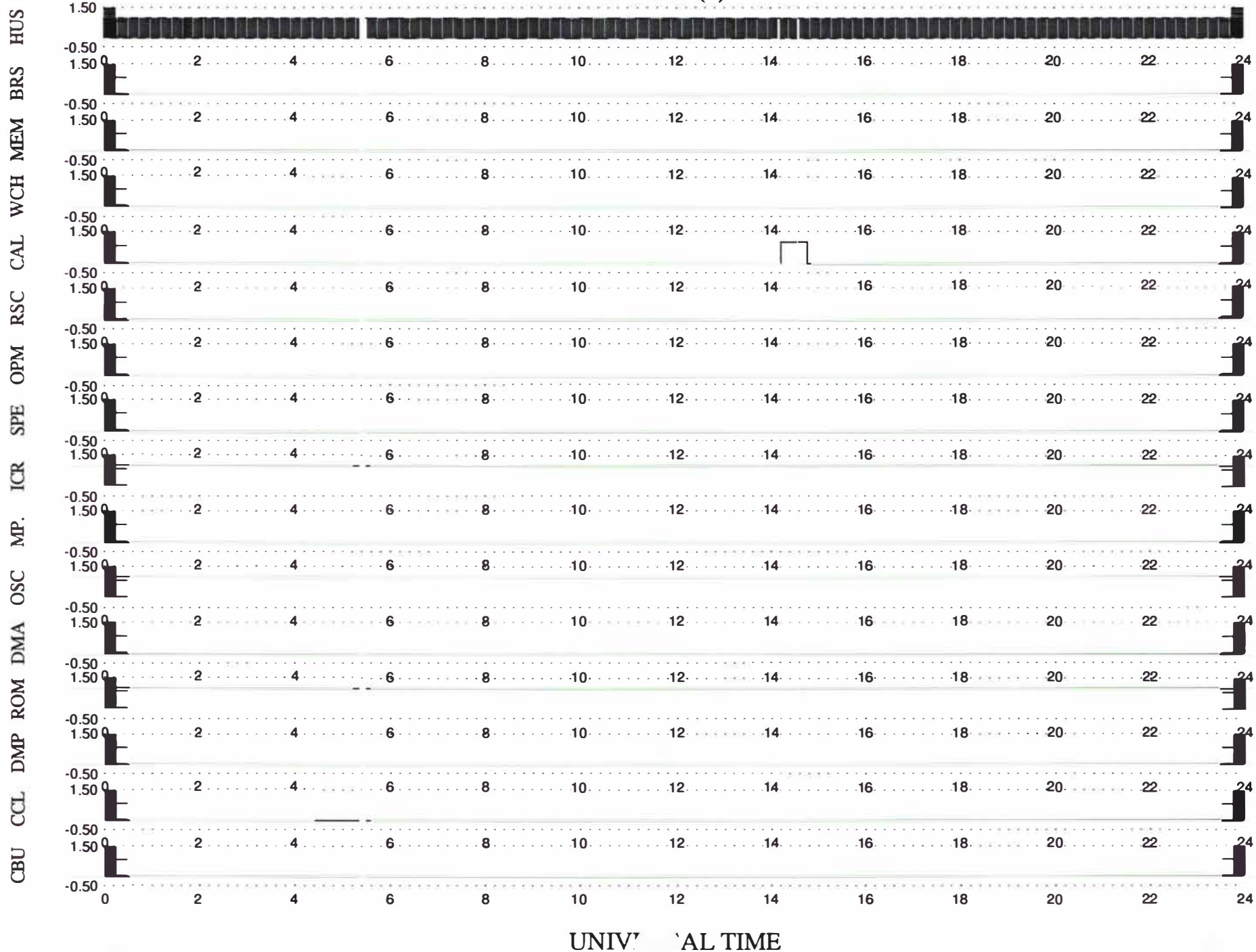
Plot created: 95/09/27, 0529

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

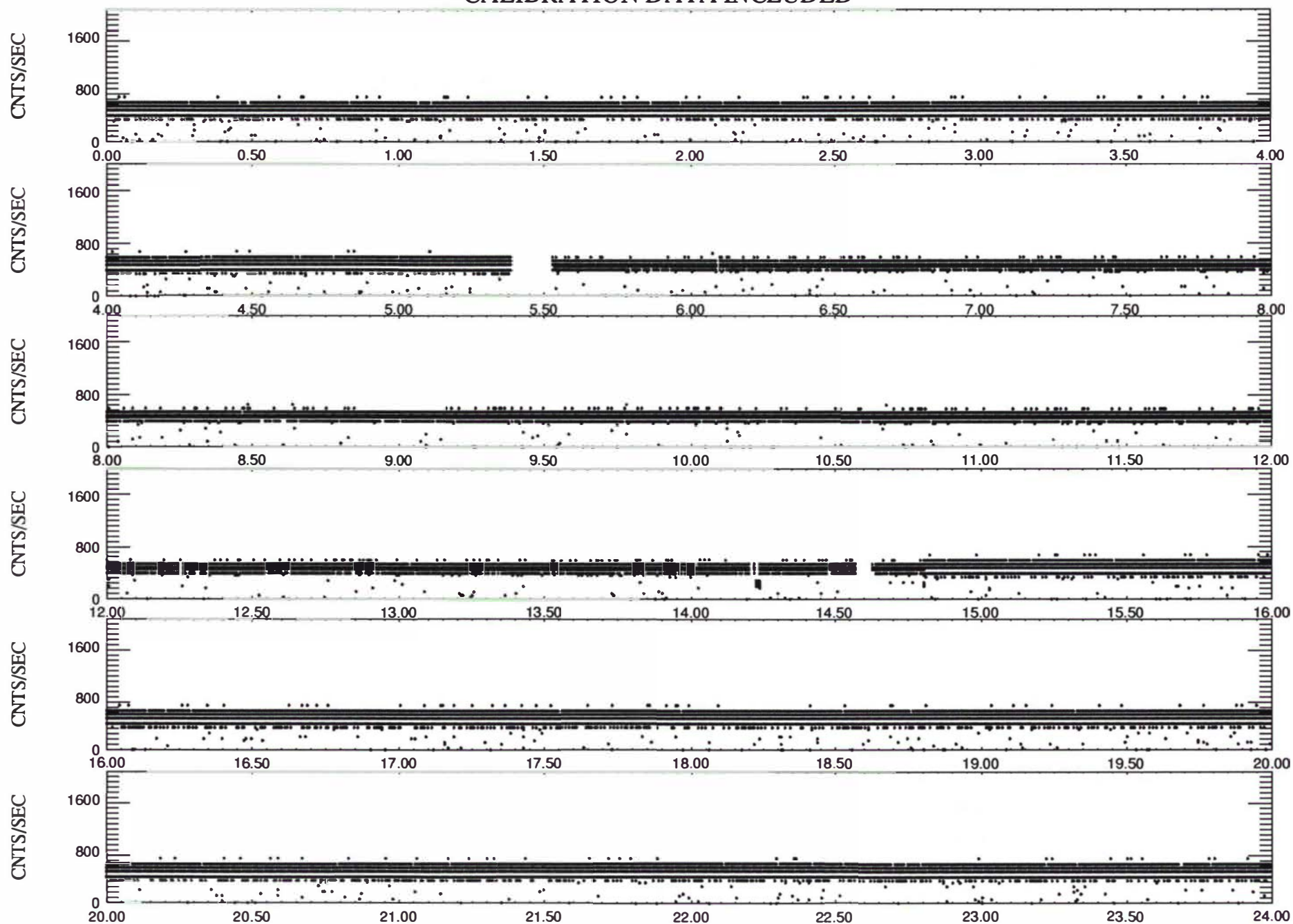
HUS MODES EDR day 268, year 1995 to day 268, year 1995
NO BURST (0)

1/25/96

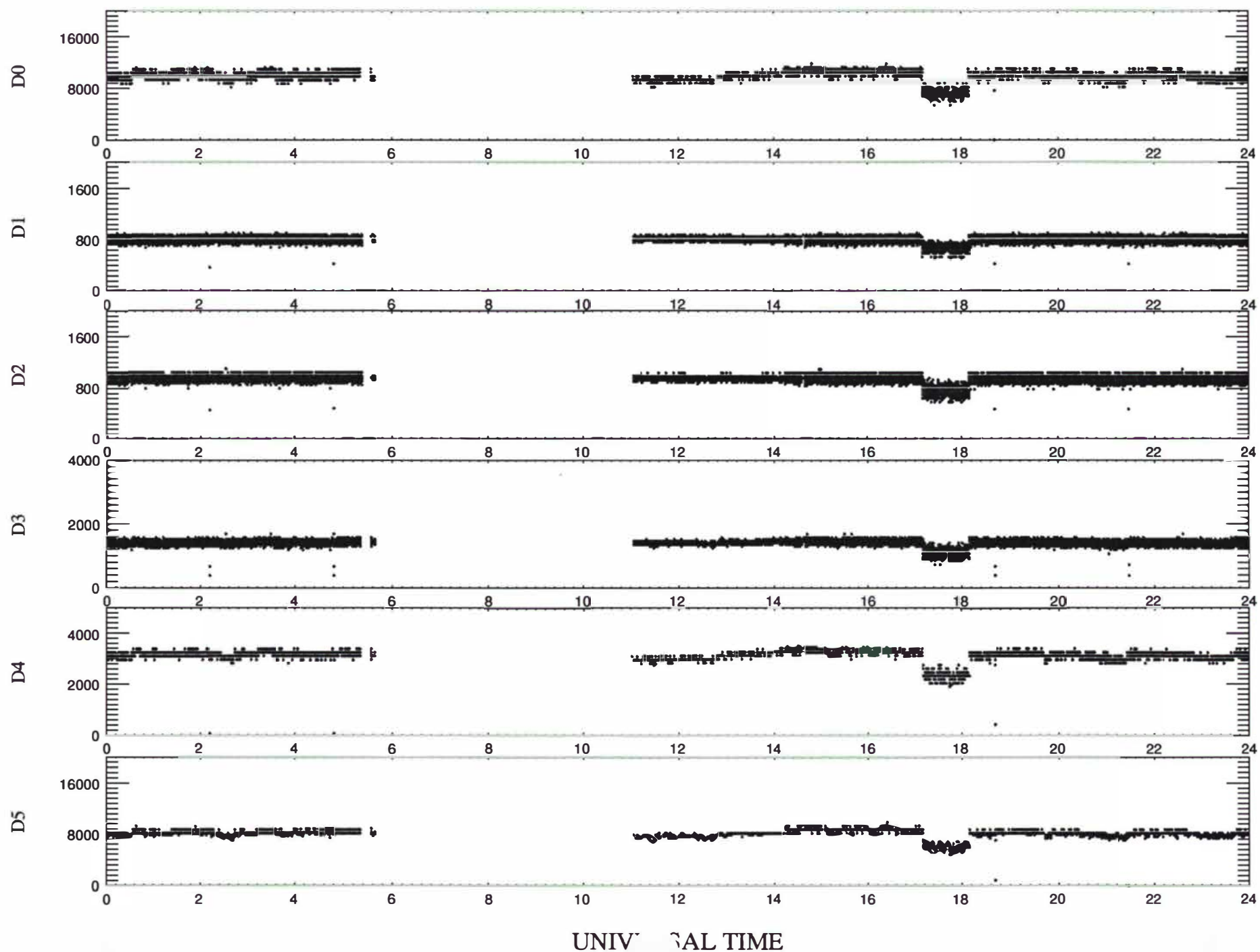


HUS 2A, MODE 1, NOT AVERAGED EDR day 268, year 1995 to day 268, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From RICHARDSON@ssl.msfc.nasa.gov Thu Sep 28 09:29 PDT 1995
Date: Thu, 28 Sep 1995 11:29:19 -0500 (CDT)
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3819

NO

BATSEARCH PROGRAM

BATSE BURST # 3819
EVENT OF 1995 SEP 26 DAY OF YEAR=269
EVENT CROSSING TIME AT BATSE : 63918. S. OR 17:45:18.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 168.000 47.000
BATSE PEAK COUNTING RATE: 3000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 26/ 9/ 95 IS:
RA= 200.374 DEC= 61.395 DIST= 2.687 AU
BATSE-ULYSSES DISTANCE = 402035697. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=156.61 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1230.88 SECS.
CROSSING TIME AT ULYSSES IS 62687. S. OR 17:24:47 +/- 123.72 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 26/ 9/ 95 IS:
RA= 220.007 DEC= -16.011 DIST= 2.126 AU
MARS-BATSE DISTANCE = 318041184. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=101.64 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -214.08 SECS.
CROSSING TIME AT MARS IS 63704. S. OR 17:41:43 +/- 177.14 SECONDS

BATSE BURST TRIGGER

NO.: 3819

TIME: TJD=9986 SECONDS=63918

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=108.2 AZIMUTH=301.5 ERROR=2.8 DEGREES

COMMENTS:

GRB. FRED. DUR.~110SEC. WEAKLY VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3819	950926	9986	63918	3000	168	+47	110

95	7	1	117	23737	23737	3658
95	7	6	121	42735	42735	3662
95	7	11	123	13789	13789	3663
95	7	13	BGR	32133	32176	3664
95	7	30	128	76149	76124	3720
95	8	4	131	7135	07134	3734
95	8	4	133	45377	45376	3735
95	8	8	BGR	13023	12974	3745
95	8	9	136	85945	85945	3750
95	8	18	137	5065	05002	3765
95	8	22	140	13751	13749	3767
95	9	4	142	52692	52688	3776
95	9	9	145	85473	85452	3788
95	9	19	151	51465	51447	3806
95	9	21	152	20947	20947	3811
95	9	22	BGR	15495		
95	9	22	BGR	25929		
95	9	26	BGR	63919		
95	10	1	153	41907		
95	10	2	BGR	77583		3843
95	10	4	BGR	83974		
95	10	5	154	14842.112		
95	10	8	156	46287.863		
95	10	10	BGR	11774		
95	10	11	157	77693.094		3860
95	10	13	159	57097.299		
95	10	14	160	13108.167		
95	10	14	161	43561.3		
95	10	16	162	02484.285		3870
95	10	16	BGR	71607		3871
95	10	18	163	19832.069		
95	10	19	64	11712.625		
95	10	19	165	48244.594		3875
95	10	25	167	85239.738		
95	11	2	168	07085.879		
95	11	2	69	21209.015		3891
95	11	2	BGR	28693		
95	11	5	BGR	01745		
95	11	5	170	05868.077		3893
95	11	5	171	46827.808		
95	11	7	BGR	27298		
95	11	11	BGR	34960		
95	11	12	172	66495.244		
95	11	13	173	84358.872		3906
95	11	15	BGR	38929		
95	11	17	175	10123.762		
95	11	18	BGR	82560		
95	11	19	176	29831.402		3912
95	11	19	177	46457.519		
95	11	19		59448		
95	11	21		22280		
95	11	22	179	09841.38		
95	11	22	180	17107.738		
95	11	23	BGR	65408		
95	11	24	BGR	21266		3918
95	11	24	BGR	25132		

-- T. L. Cline ----- LHEAVX::CLINE

From cline@lheavx.gsfc.nasa.gov Fri Jan 26 13:00 PST 1996
 Date: Fri, 26 Jan 1996 13:00:45 -0800
 Mime-Version: 1.0
 To: KHURLEY@sunspot.ssl.berkeley.edu
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: Improved list; same question.

Dear Kevin,
 I'm making a little progress here, tracking down these events. This is a slightly improved list, with a few more BATSE triggers identified. - TLC

Yr	Mn	Dy	Konus#	Konus Tzero	BATSE Tz, #	Ulysses
94	11	14	BGR	07360	07358 3283	- NO
94	11	19	4	70269.175	70250 3287	R I
94	11	21	6	62700.945	62697 3290	trig.
94	11	25	7	79470.156	79470 3295	R I
94	11	26	BGR	01246	01245 3296	
94	11	26	8	44557.952	44521 3298	trig.
94	11	26	BGR	60860	60861 3299	
94	11	26	9	71809.732	71798 3301	R I
94	11	27	10	52225.68	52217 3303	R I
94	11	28	BGR	56220	56217 3305	
94	12	28	28	27585.915	27581 3330	R I
94	12	29	29	82268.781	82258 3334	R I
95	1	4	31	26319.613	26319 3345	R I
95	1	11	33	17352.241	17263 3351	R I
95	1	11	34	44329	44310 3352	
95	1	17	BGR	05760	05761 3360	
95	1	18	BGR	44574	44589 3364	
95	2	7	BGR	02774	02781 3406	
95	2	8	45	07824	07824 3408	
95	2	10	47	08424	08421 3410	
95	2	11	48	08697	08697 3412	trig.
95	2	11	50	72469	72468 3415	
95	2	21	BGR	74701	74705 3436	
95	2	26	54	53351	53336 3442	
95	3	1	BGR	75731	75761 3448	
95	3	4	56	37661	37657 3453	
95	3	5	58	54309	54304 3458	
95	3	10	BGR	78388	78395 3464	
95	3	25	63	25841	25844 3480	
95	3	25	64	63392	63391 3481	
95	3	27	BGR	26323	26347 3485	
95	3	27	BGR	85672	85671 3486	
95	4	1	69	42647	42642 3488	
95	4	1	70	74635	74634 3489	
95	4	3	71	47985	47987 3491	
95	4	3	72	84828	84826 3492	
95	4	16	BGR	48420	48419 3509	
95	4	18	81	83793	83795 3512	
95	4	25	86	00923	00919 3523	
95	4	30	BGR	54224	54229 3527	
95	5	3	88	66971	66970 3537	
95	5	10	90	28083	28079 3569	
95	5	13	93	81706	81703 3571	
95	5	21	97	25161	25157 3588	
95	5	22	98	23898	23896 3590	
95	5	22	100	85280	85283 3593	
95	5	24	102	14902	14899 3598	
95	6	2	104	25592	25592 3618	
95	6	10	107	6849	06849 3637	
95	6	24	111	84124	84084 3648	
95	6	25	113	14626	14601 3649	
95	6	29	115	37033	37036 3654	
95	7	1	116	12762	12758 3657	

2 / 10 / 95

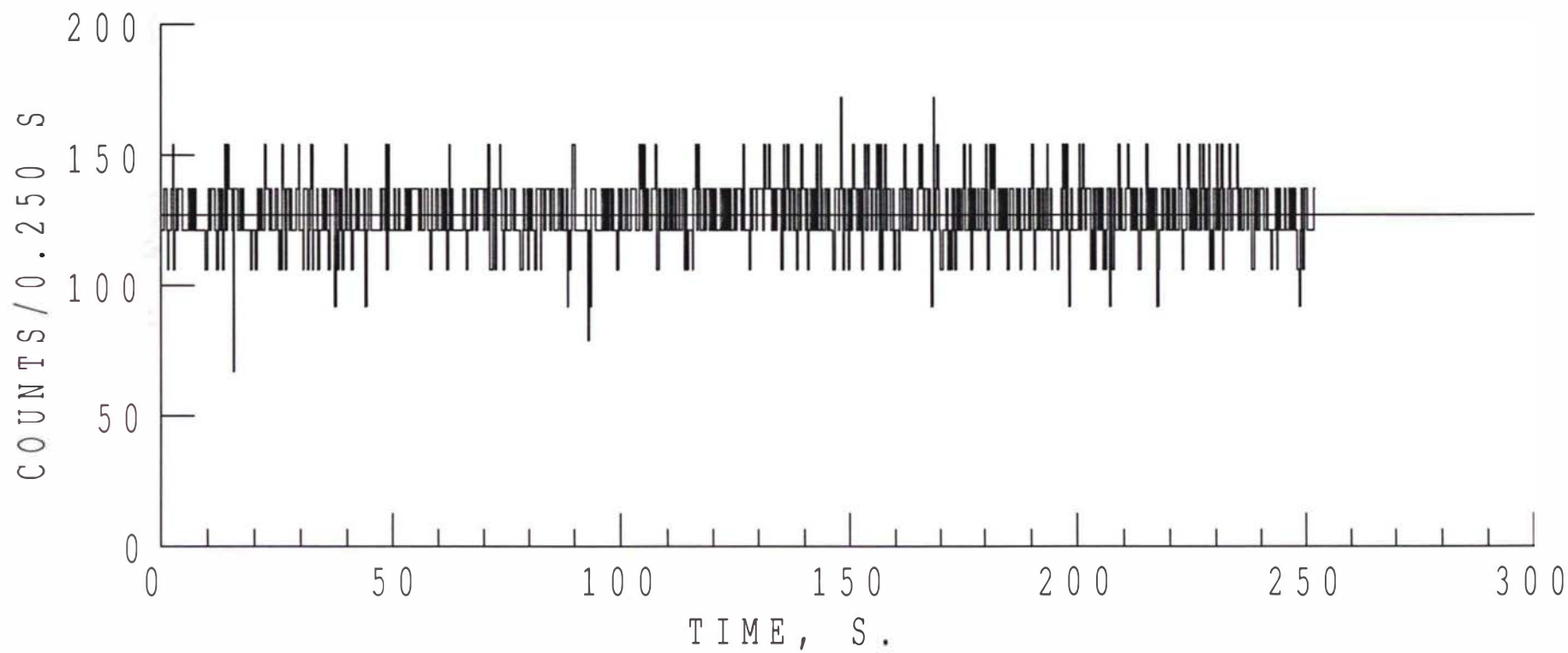
ULYSSES RT

26 / 9 / 95 62568.027 s

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



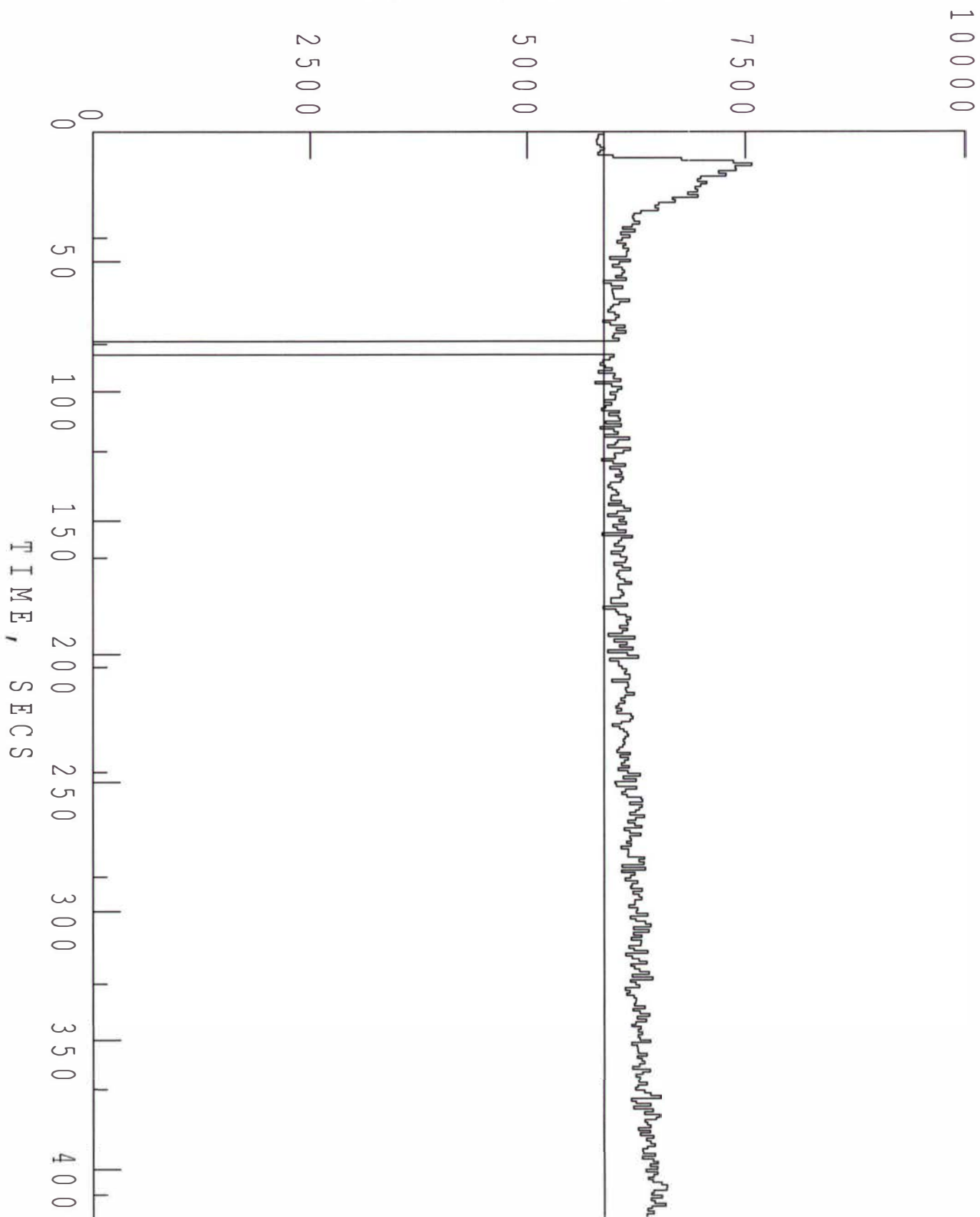
BACODINE

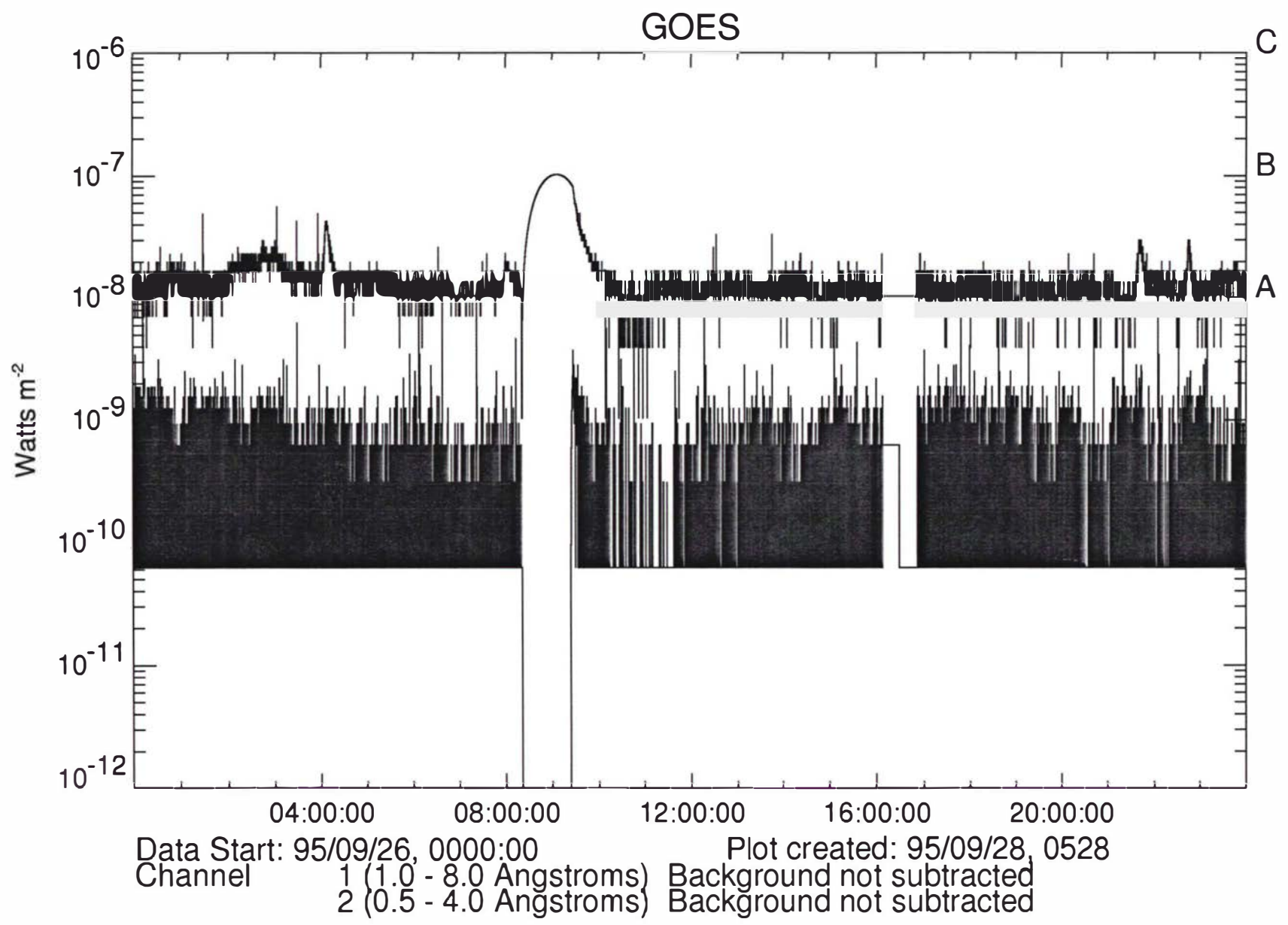
26/09/95

63908.529

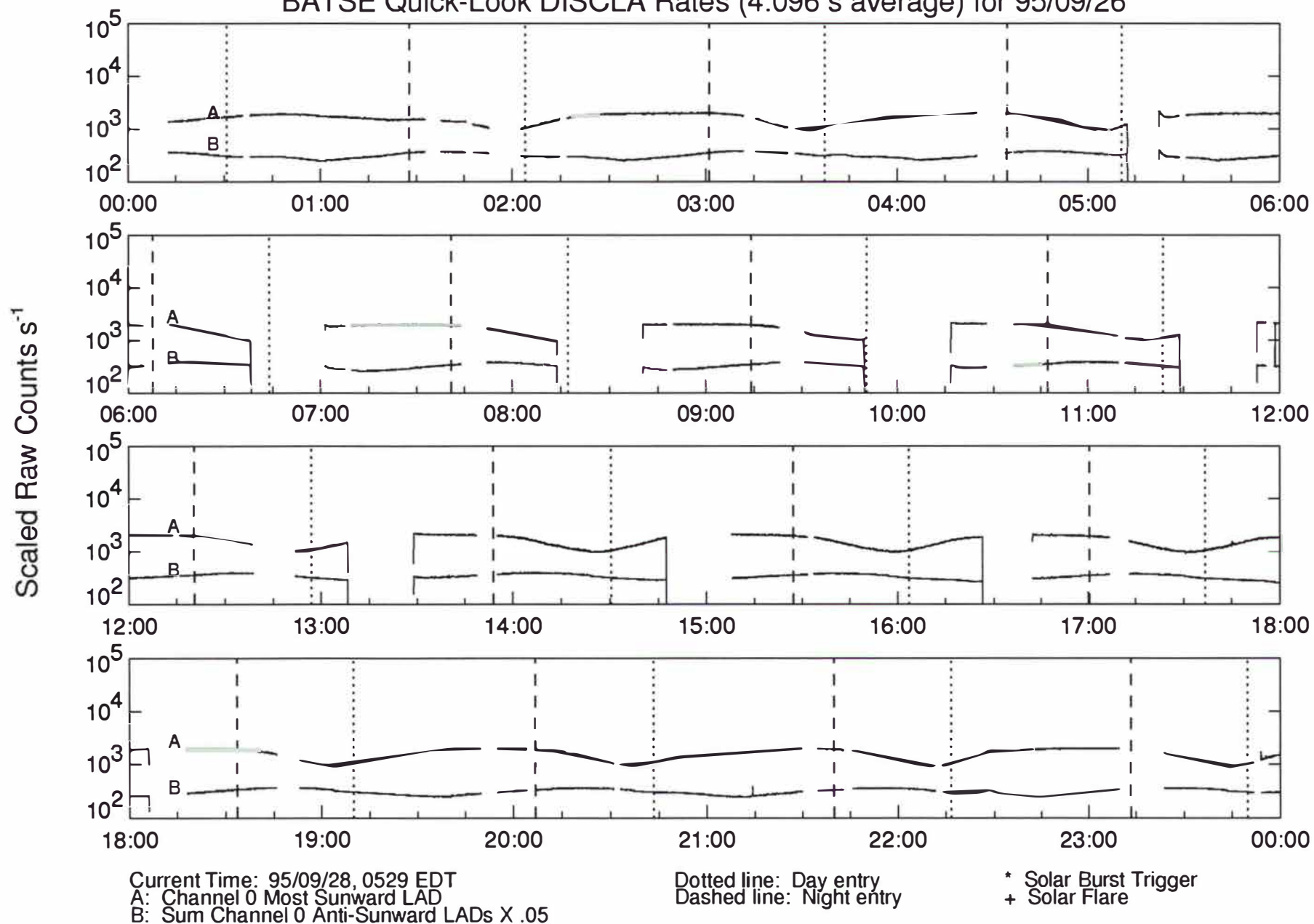
25 - 100 keV

COUNTS/1.024 S



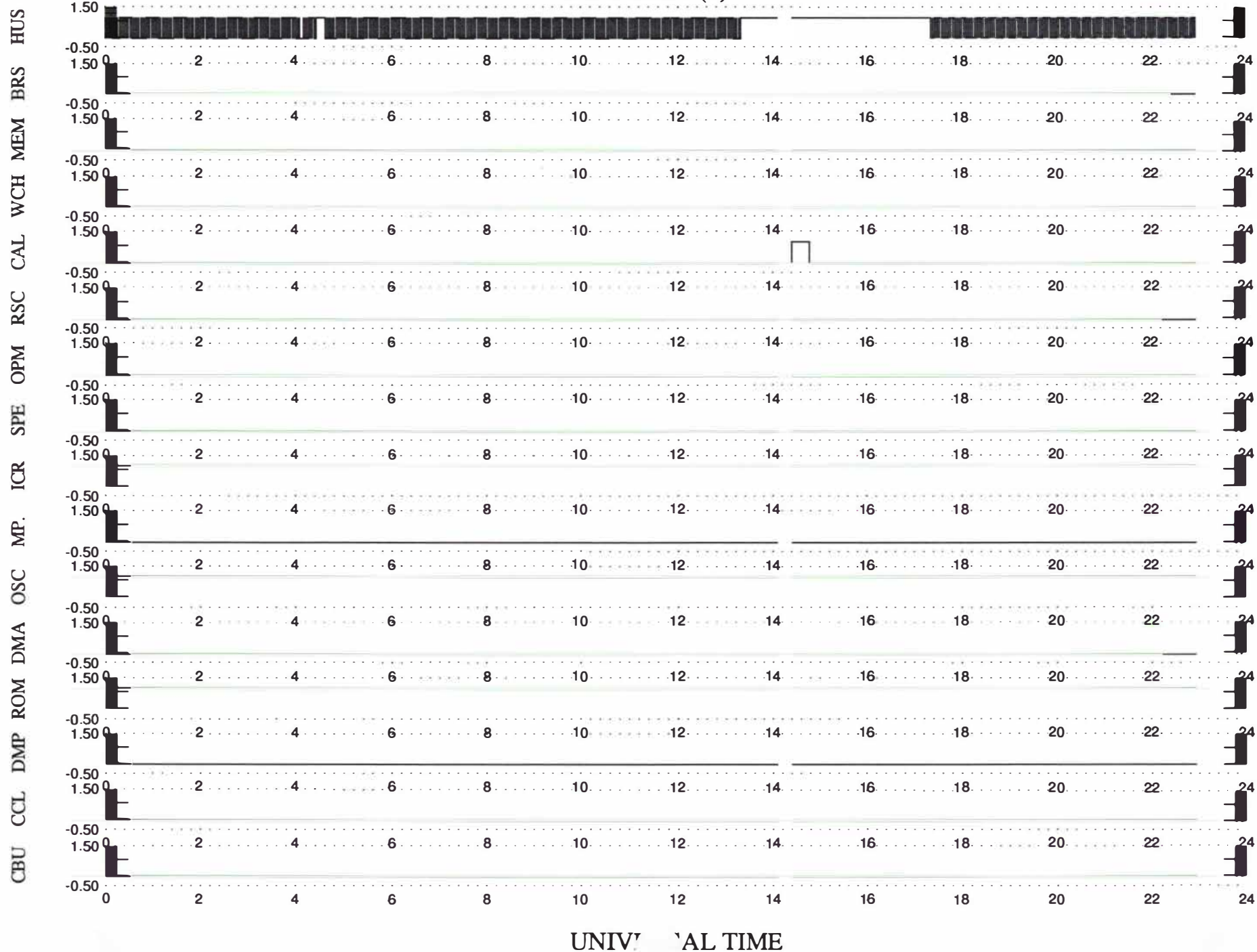


BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/26



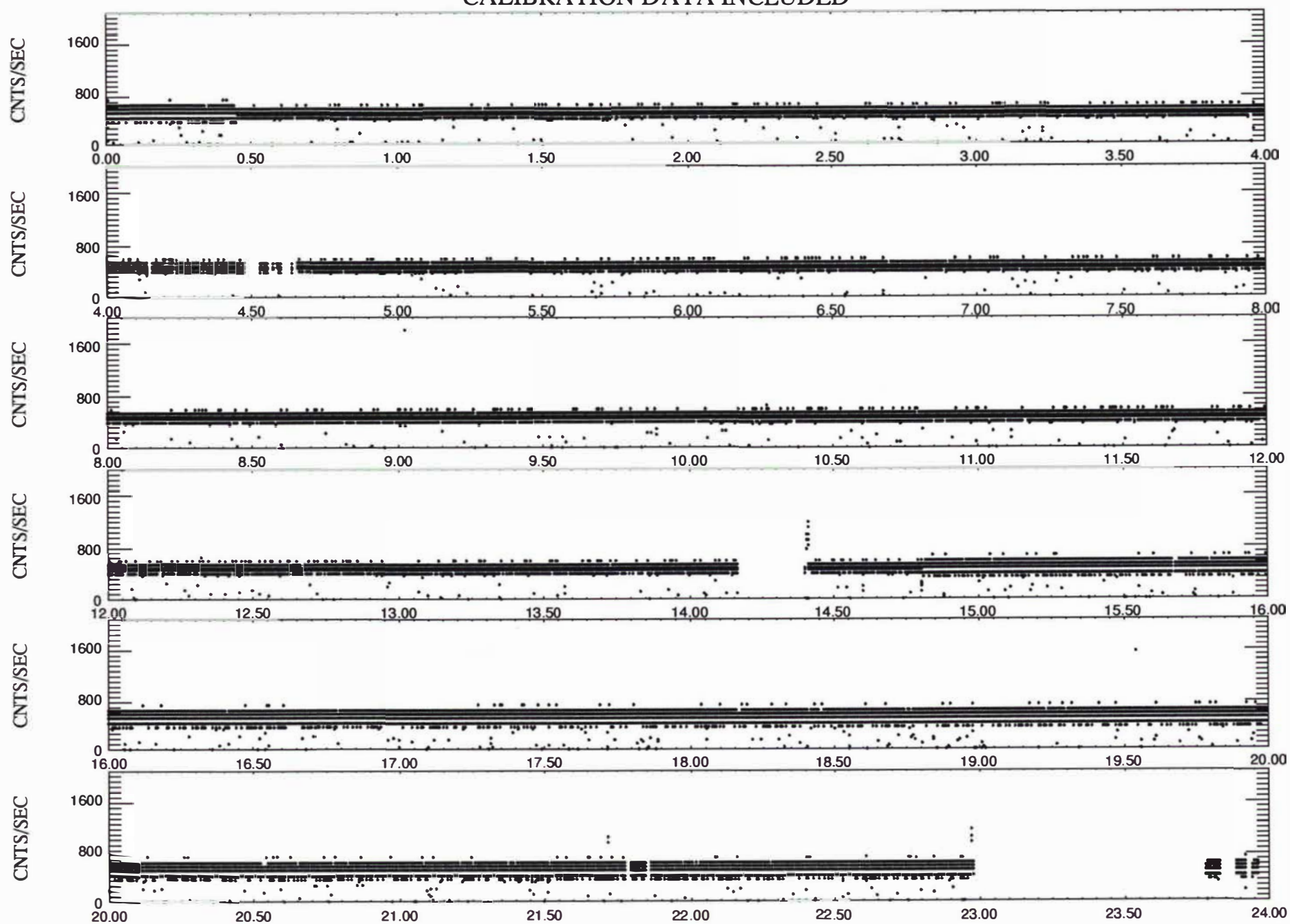
HUS MODES EDR day 269, year 1995 to day 269, year 1995 NO BURST (0)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 269, year 1995 to day 269, year 1995
CALIBRATION DATA INCLUDED

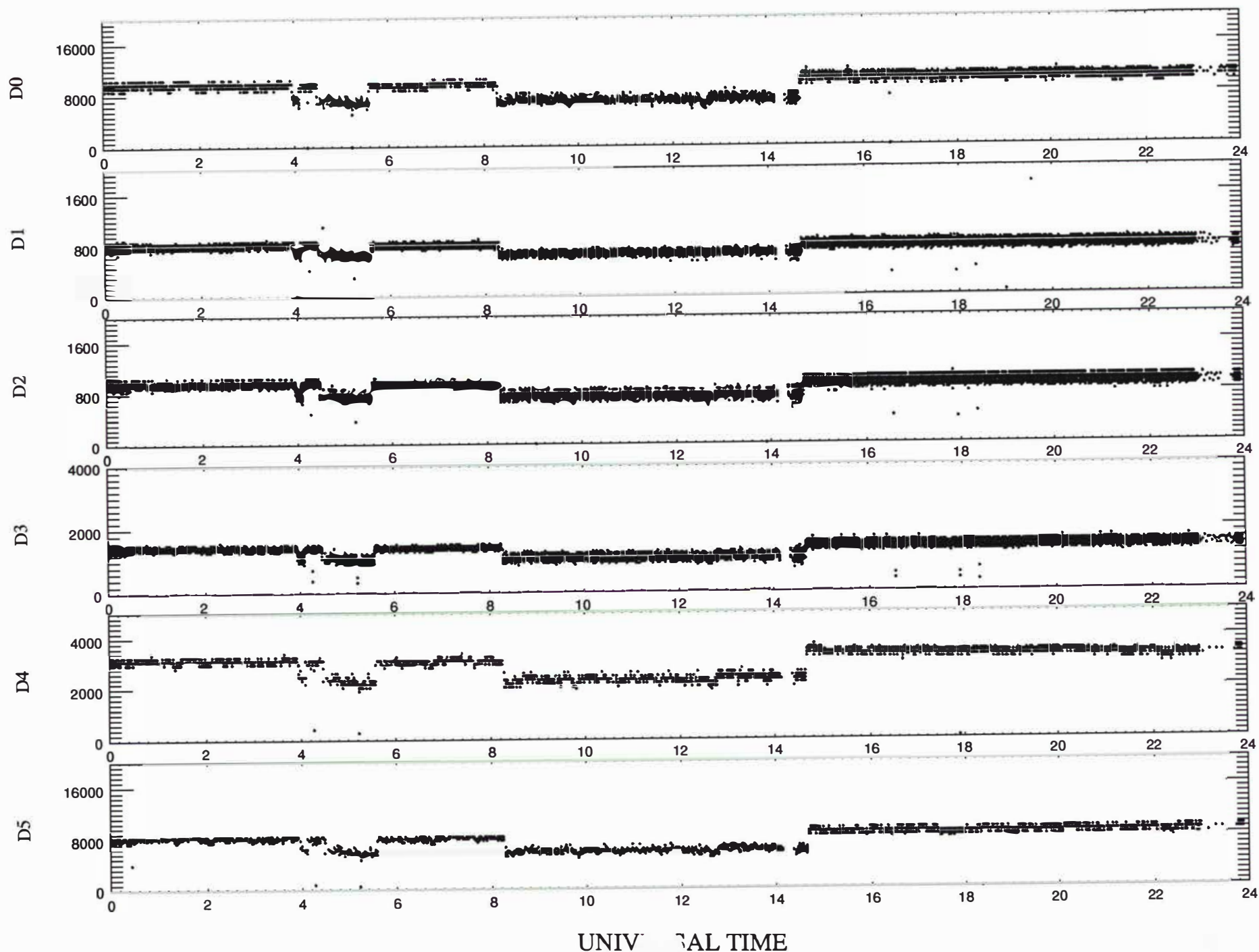
1/25/96

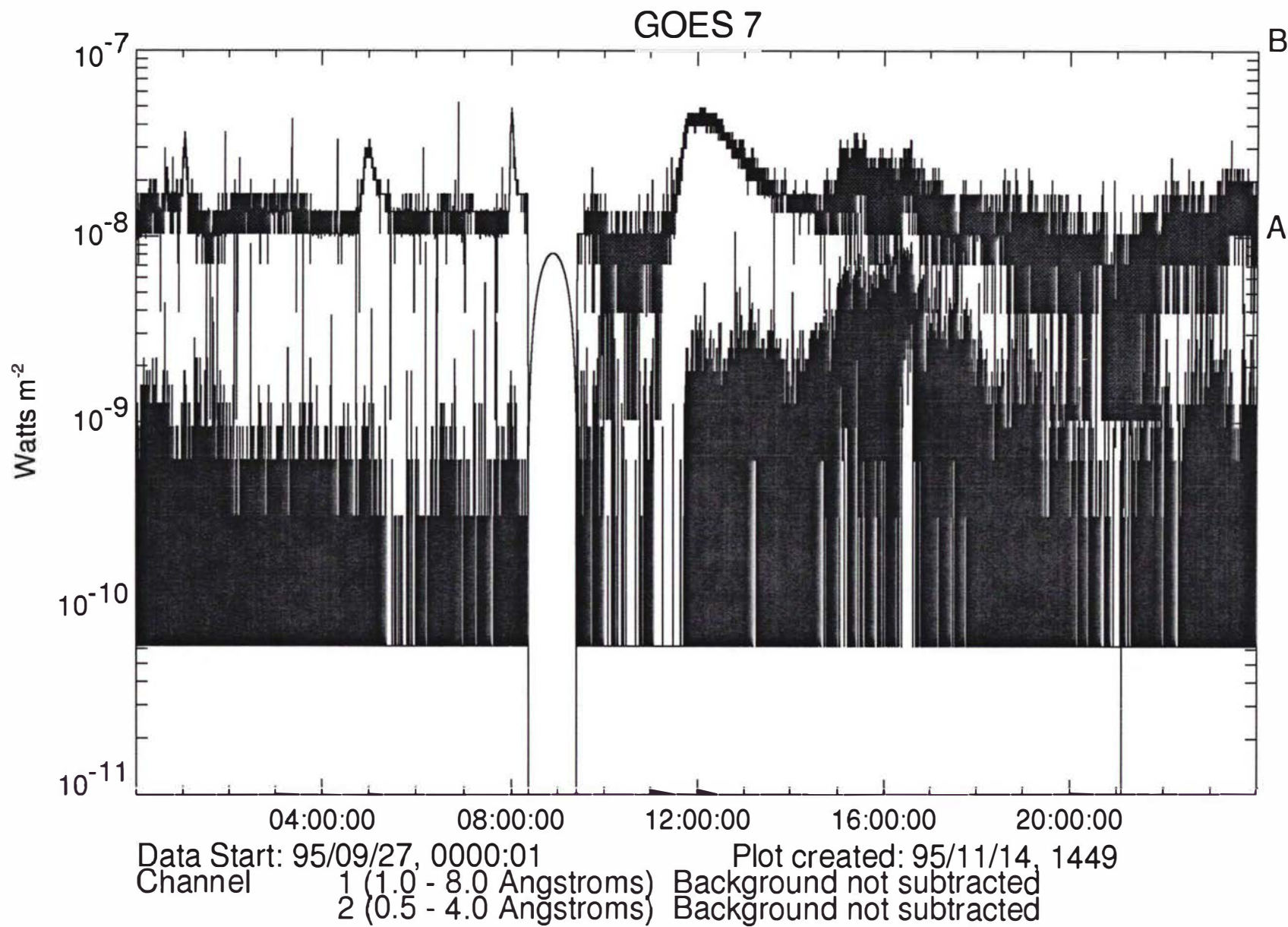


UNIVERSAL TIME

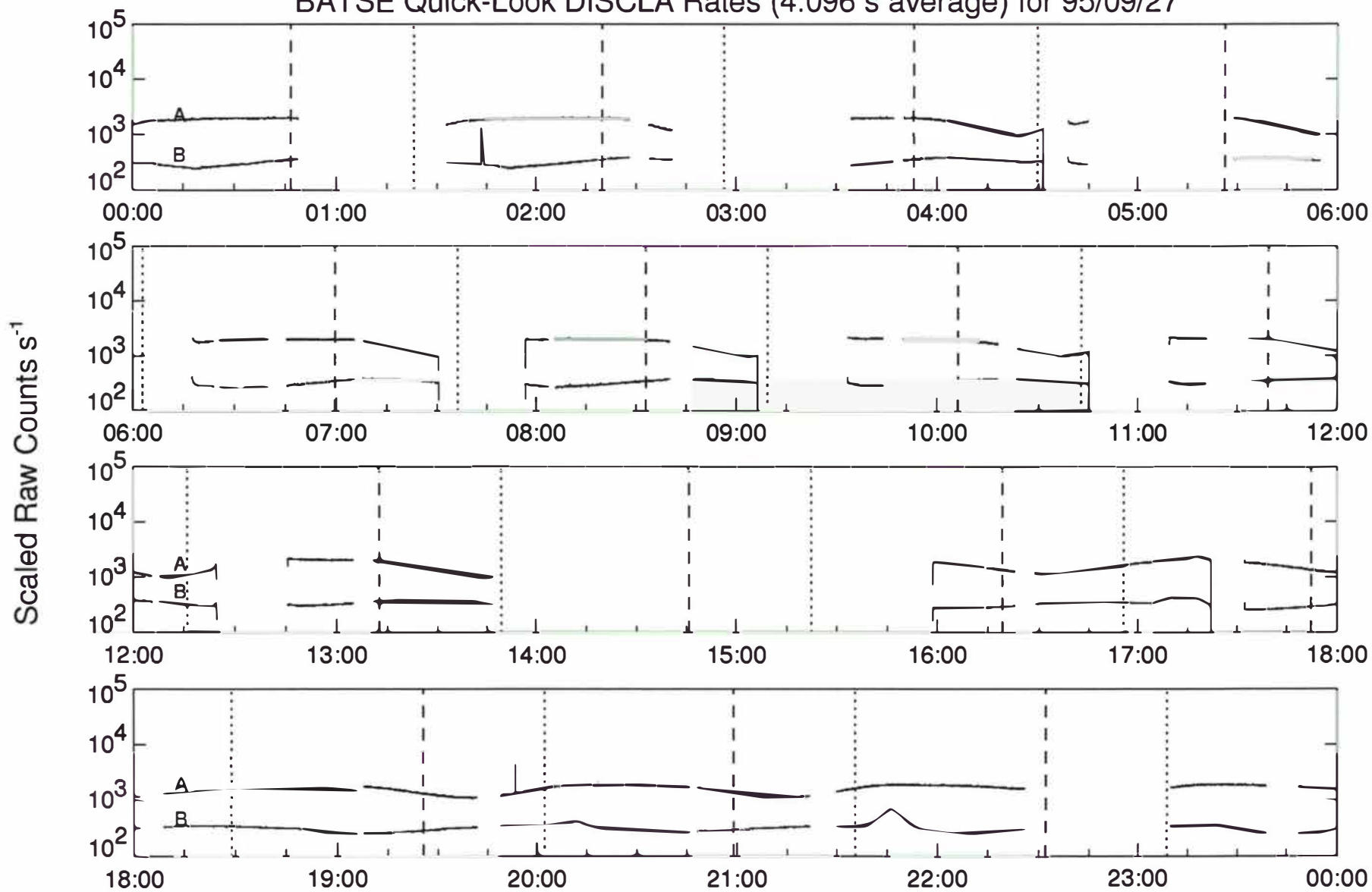
HUS 2B COUNTS / SEC QEDR day 269, year 1995 to day 269, year 1995

9/28/95





BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/27



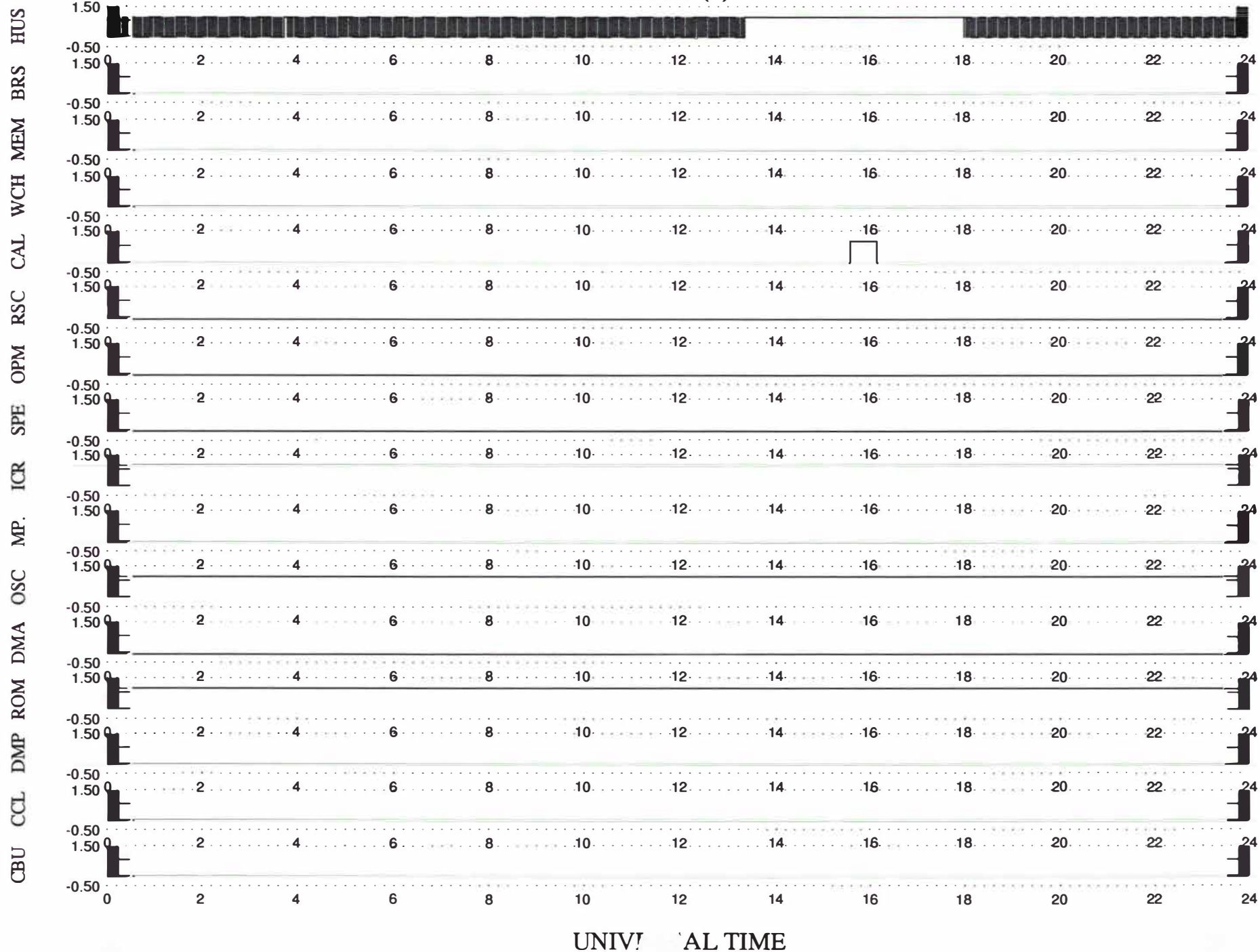
Current Time: 95/10/04, 1827 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

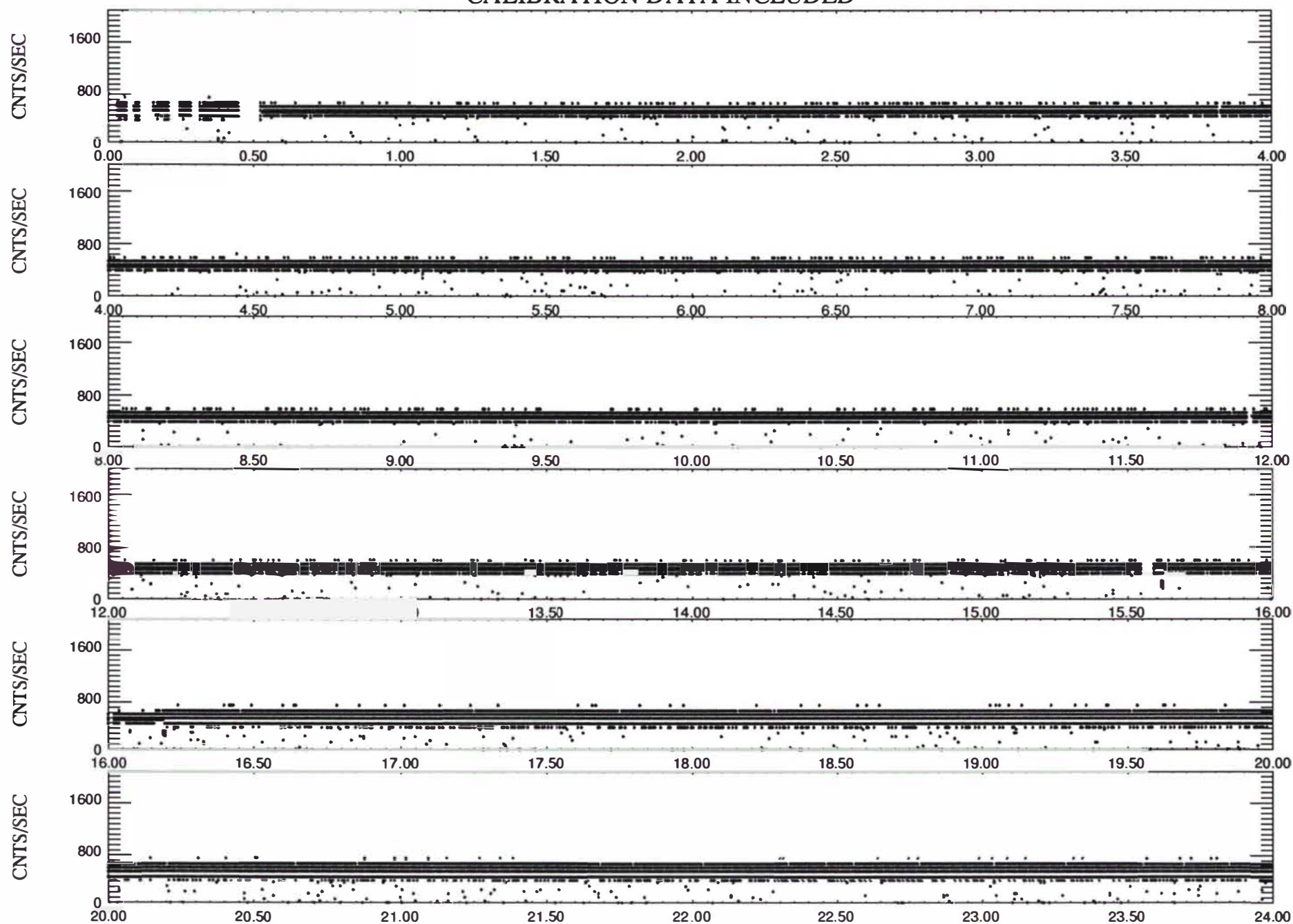
HUS MODES EDR day 270, year 1995 to day 270, year 1995 NO BURST (0)

1/25/96

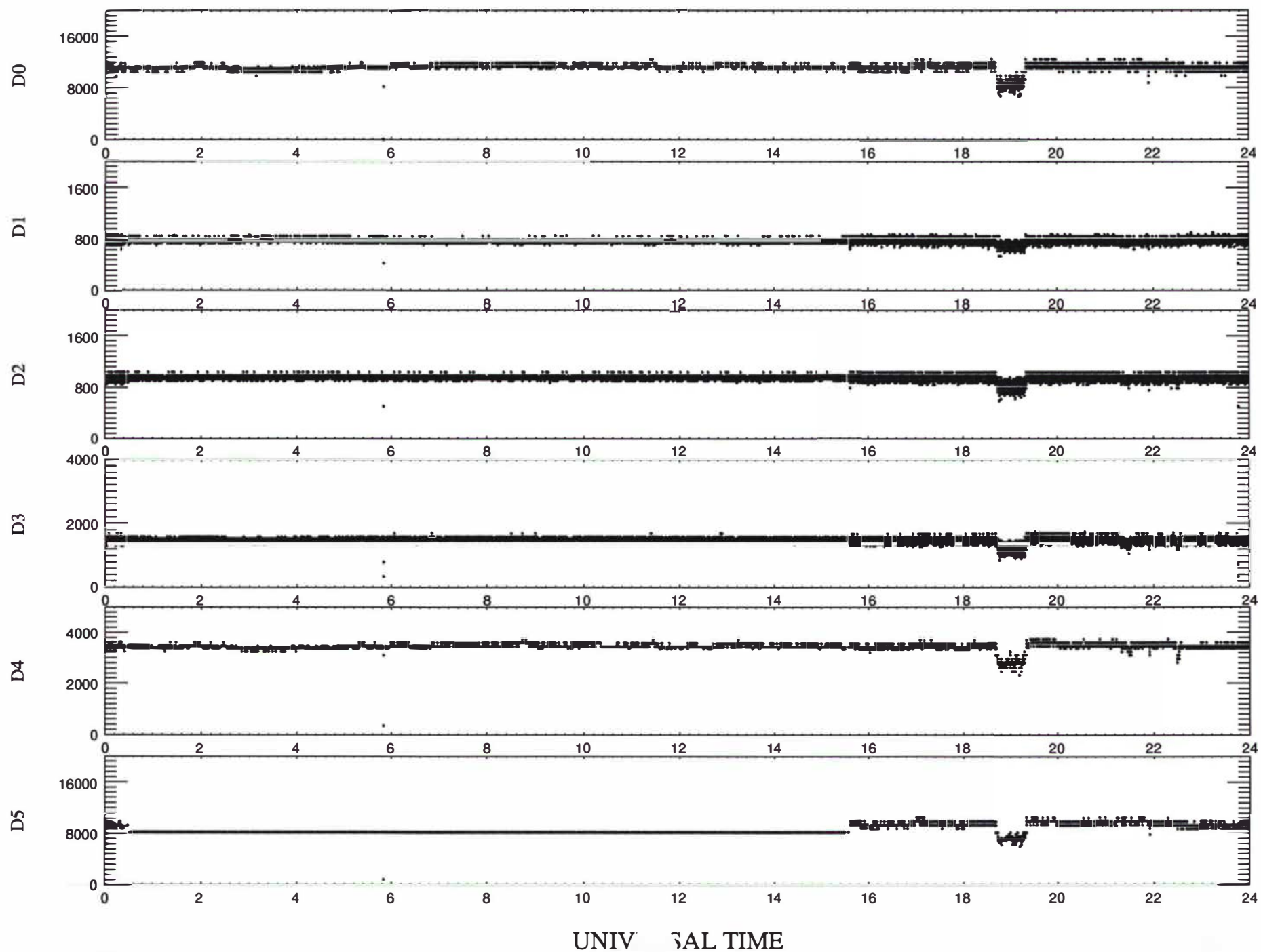


HUS 2A, MODE 1, NOT AVERAGED EDR day 270, year 1995 to day 270, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From HAGEDON@ssl.msfc.nasa.gov Mon Oct 2 11:07 PDT 1995
From: HAGEDON@ssl.msfc.nasa.gov
Date: Mon, 2 Oct 1995 12:49:02 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3821

TIME: TJD=9988 SECONDS=08337

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@fender.msfc.nasa.gov Tue Oct 3 10:14 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Tue, 3 Oct 1995 12:14:25 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@circe.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3822

TIME: TJD=9988 SECONDS=14209

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@fender.msfc.nasa.gov Tue Oct 3 10:18 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Tue, 3 Oct 1995 12:17:16 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@circe.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3823

TIME: TJD=9988 SECONDS=18713

TYPE: CYG X-1 SOLAR FLARE TRIGGER SIGNAL:N

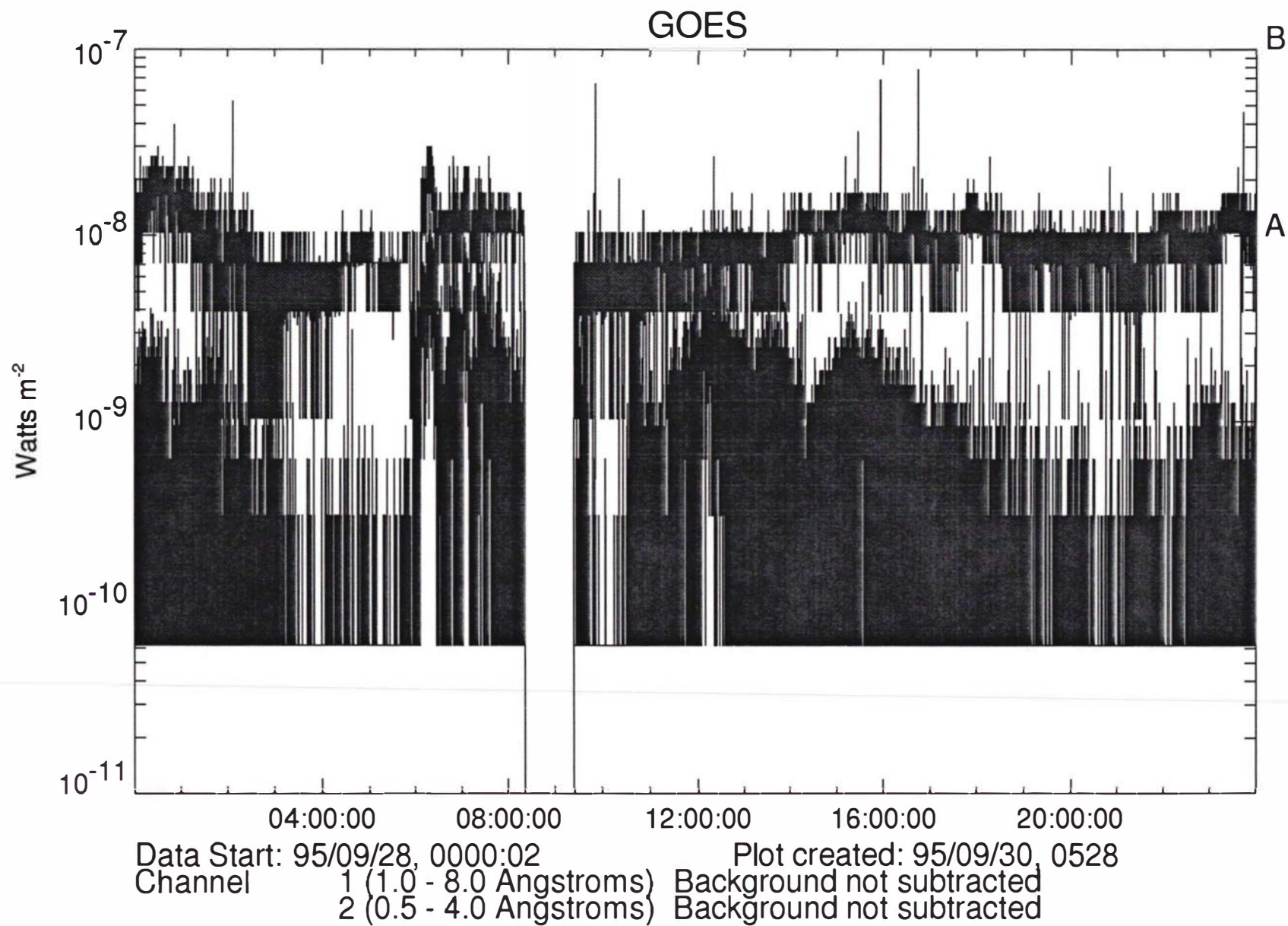
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

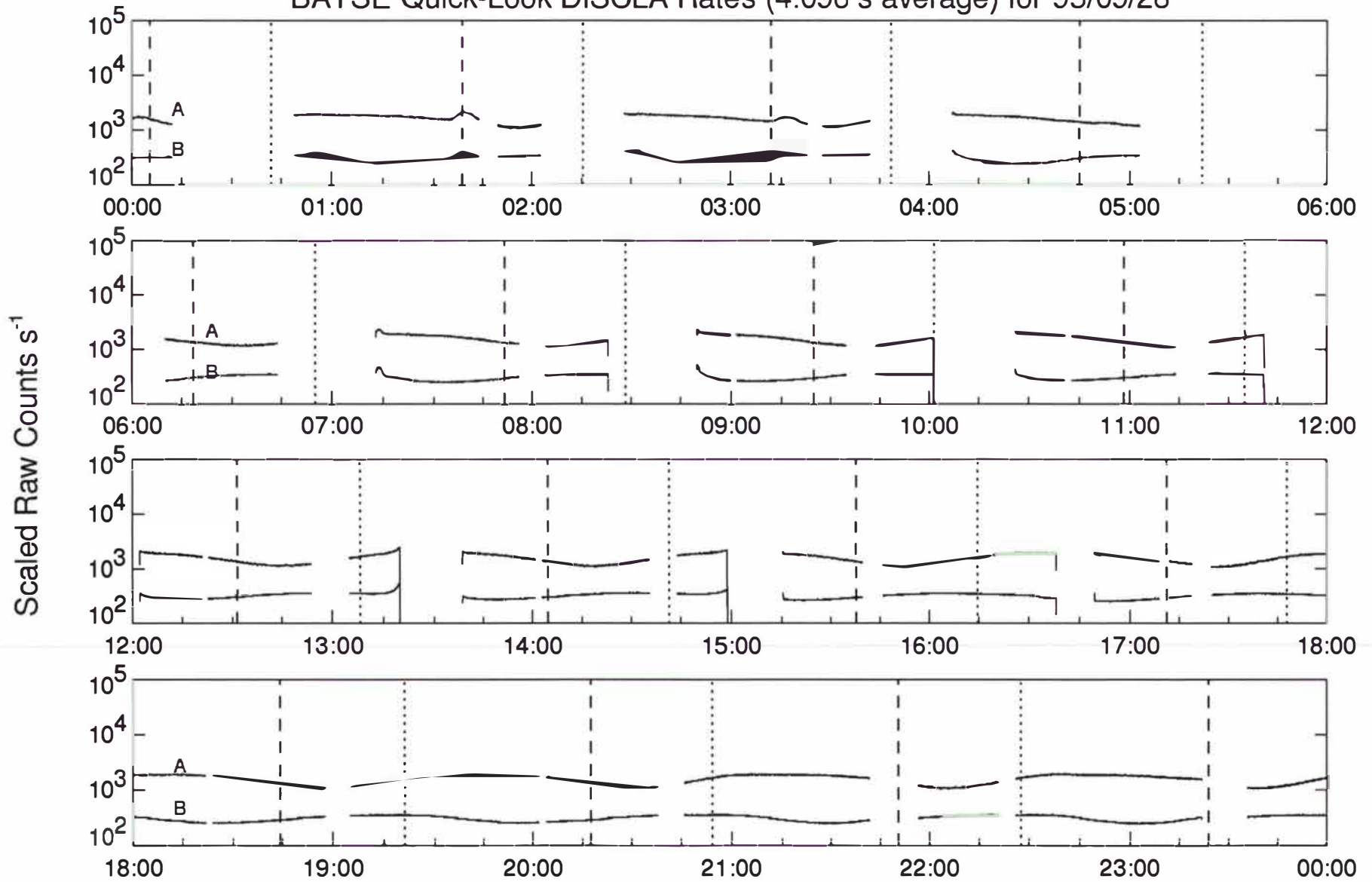
LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

WEAK CYGNUS X-1 FLUCTUATION. SPARSE DATA. NOT VISIBLE ABOVE 300 KEV.



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/28



Current Time: 95/09/30, 0529 EDT

A: Channel 0 Most Sunward LAD

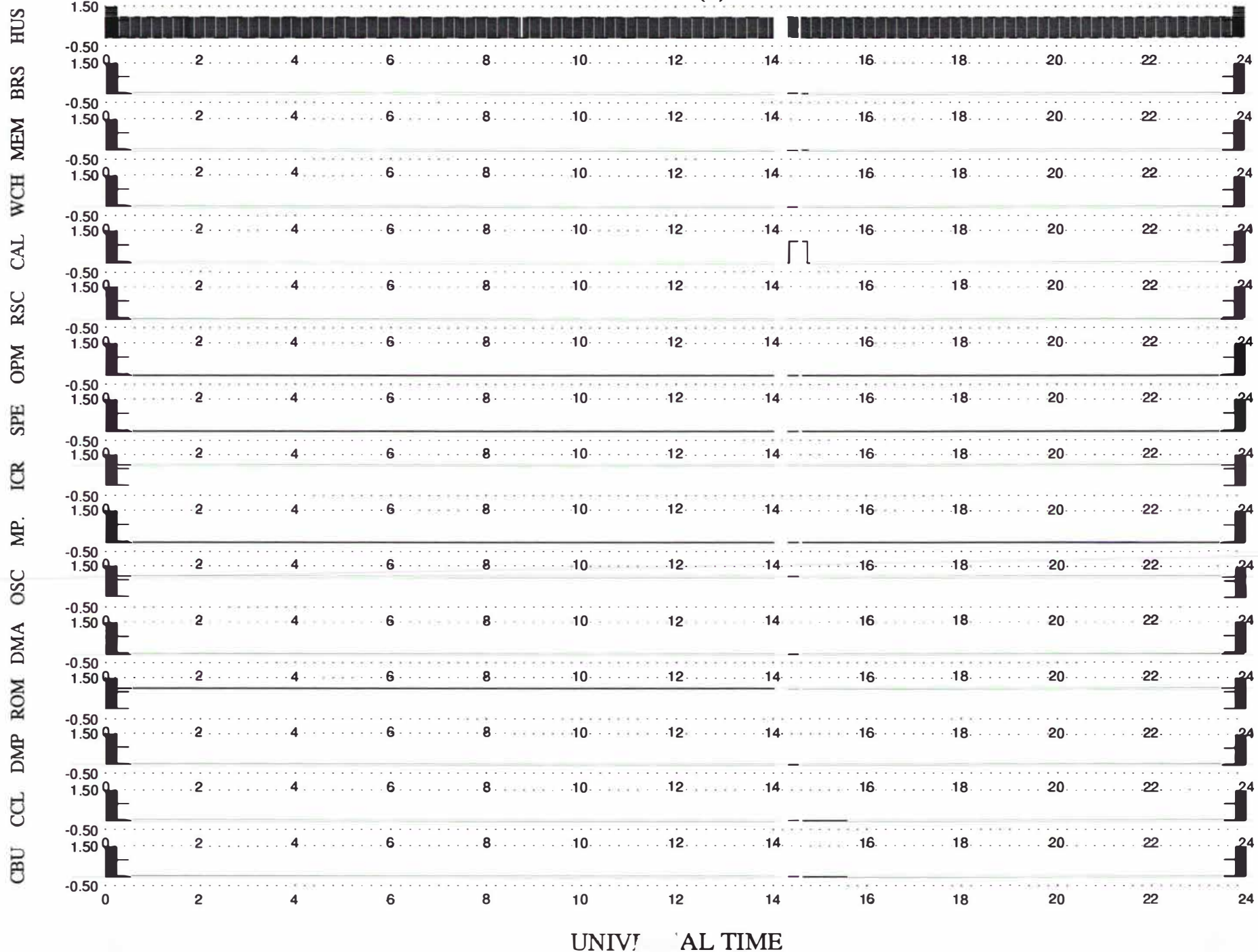
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

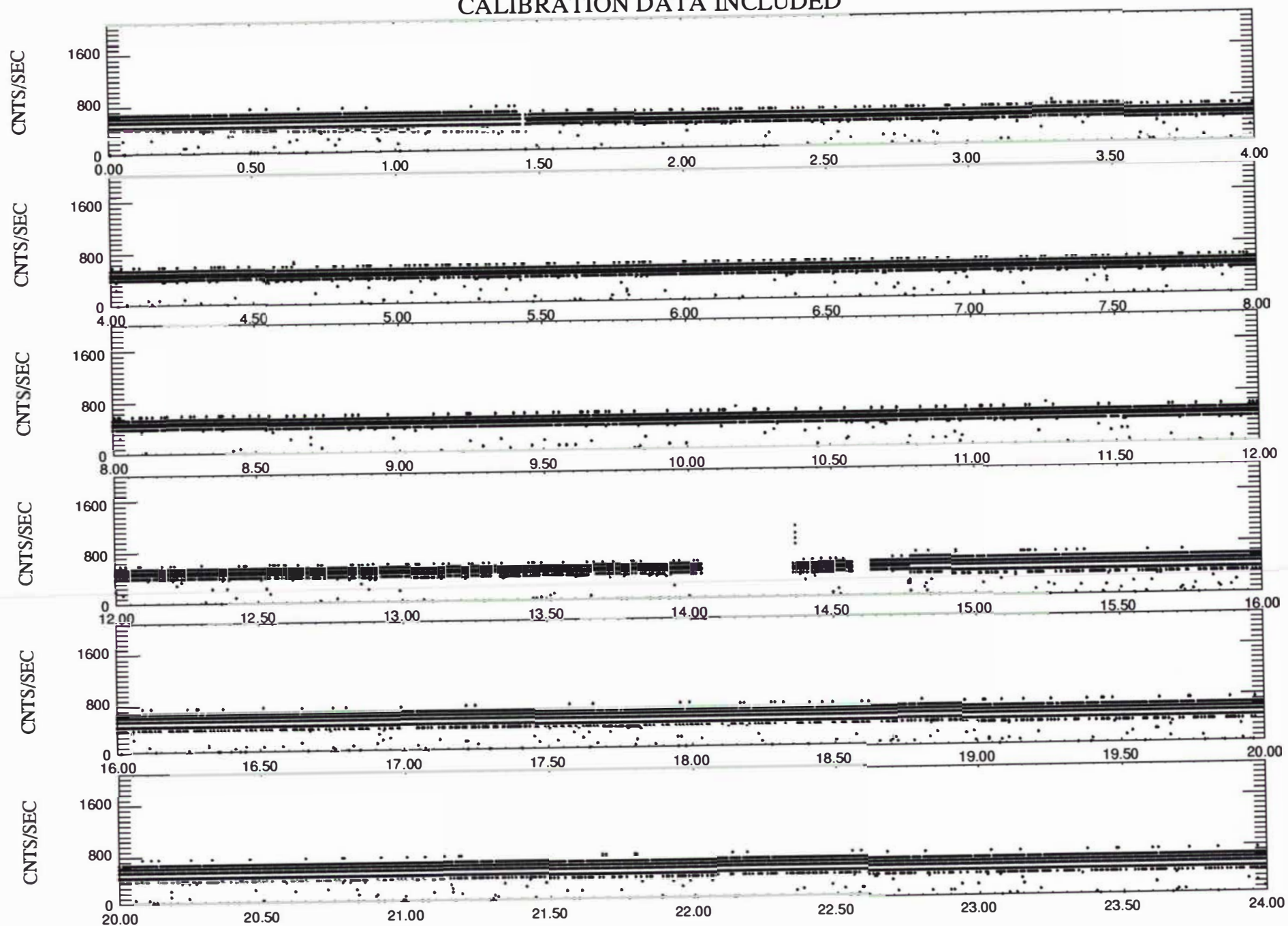
HUS MODES EDR day 271, year 1995 to day 271, year 1995
NO BURST (0)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 271, year 1995 to day 271, year 1995 CALIBRATION DATA INCLUDED

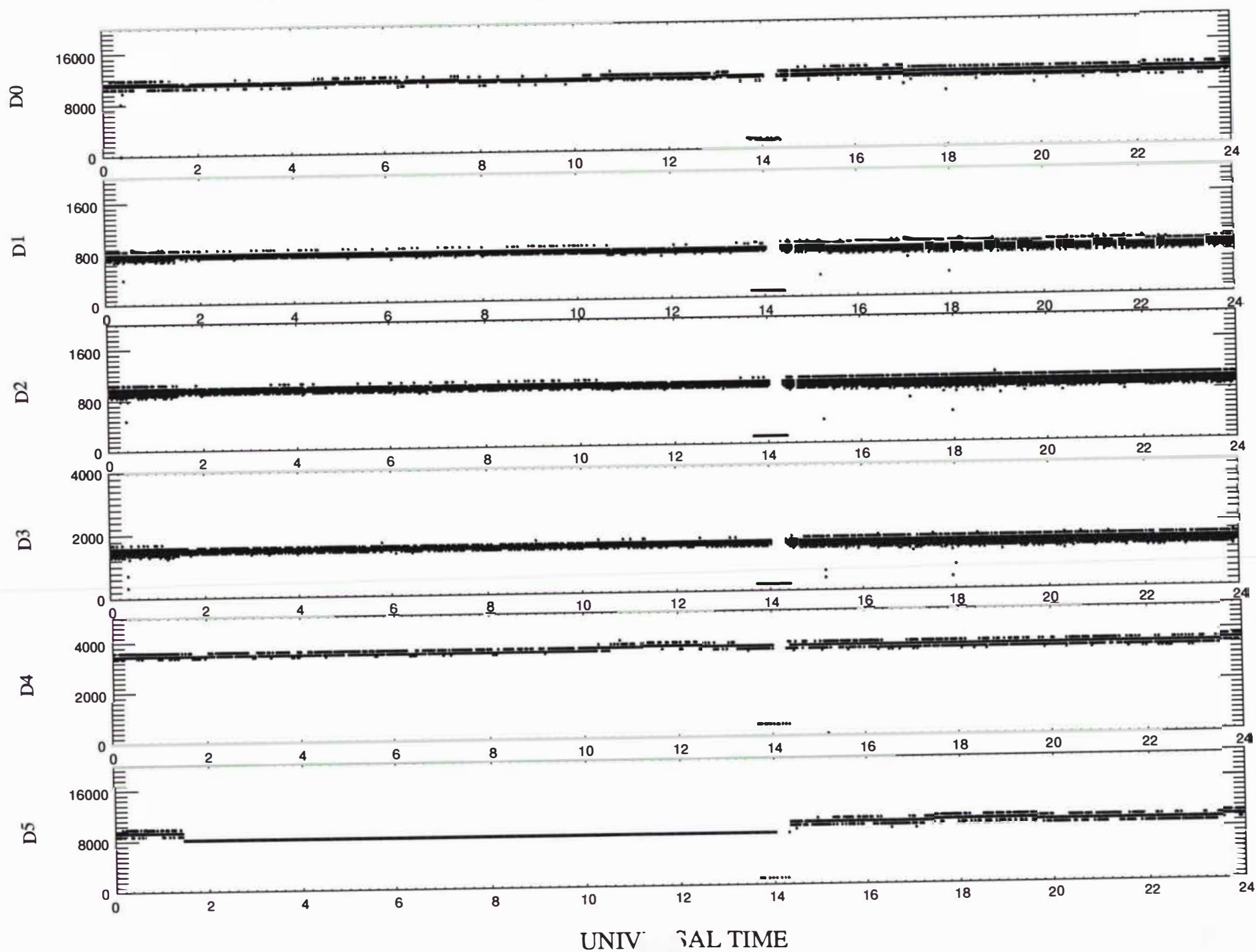
1/25/96



UNIVFICAL TIME

HUS 2B COUNTS / SEC QEDR day 271, year 1995 to day 271, year 1995

10/2/95



From HAGEDON@fender.msfc.nasa.gov Tue Oct 3 10:20 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Tue, 3 Oct 1995 12:20:08 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@circe.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3824

TIME: TJD=9989 SECONDS=17524

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@fender.msfc.nasa.gov Tue Oct 3 10:22 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Tue, 3 Oct 1995 12:21:59 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@circe.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3825

TIME: TJD=9989 SECONDS=85723

TYPE: CYG X-1 SOLAR FLARE TRIGGER SIGNAL:N

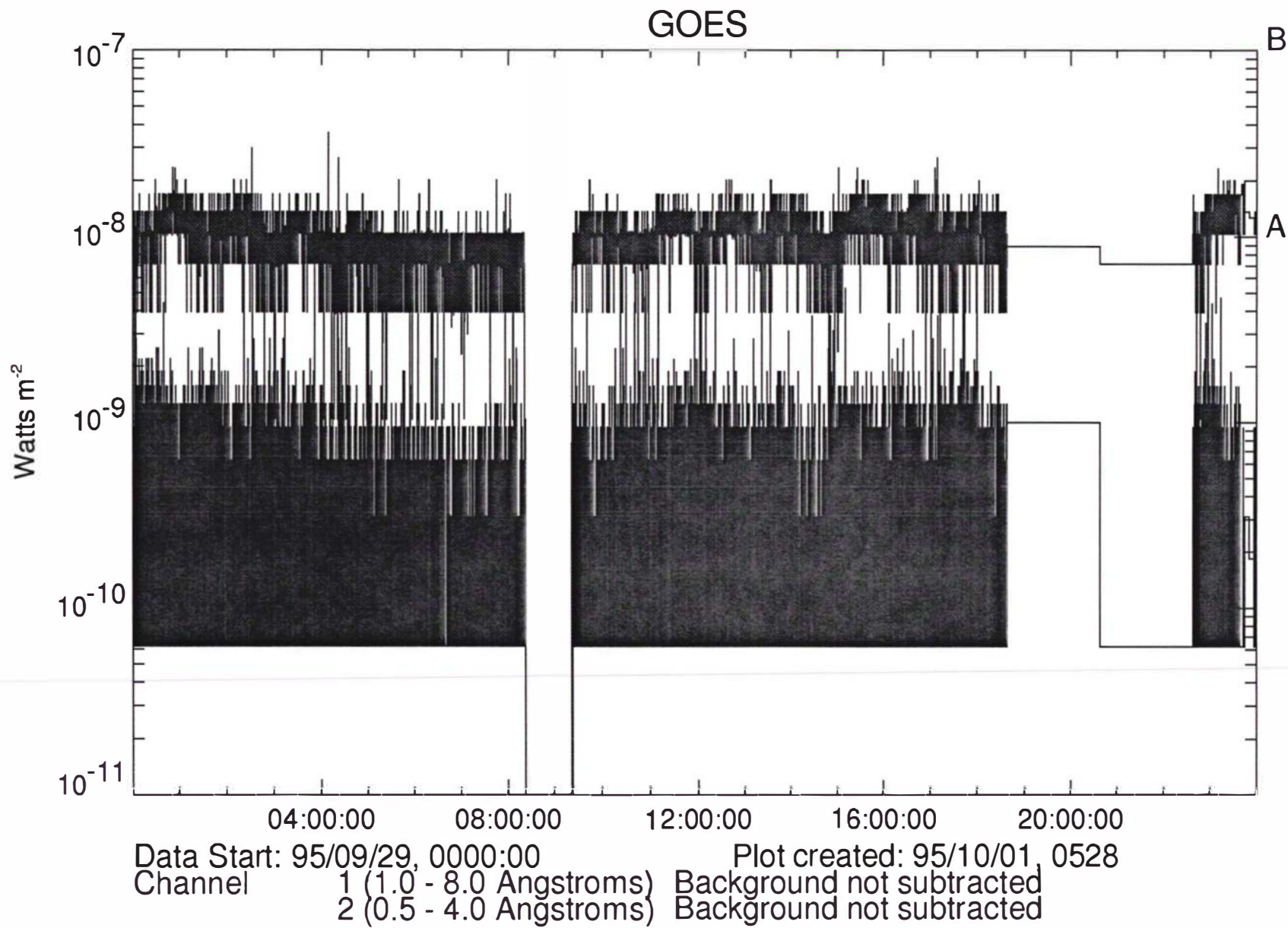
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

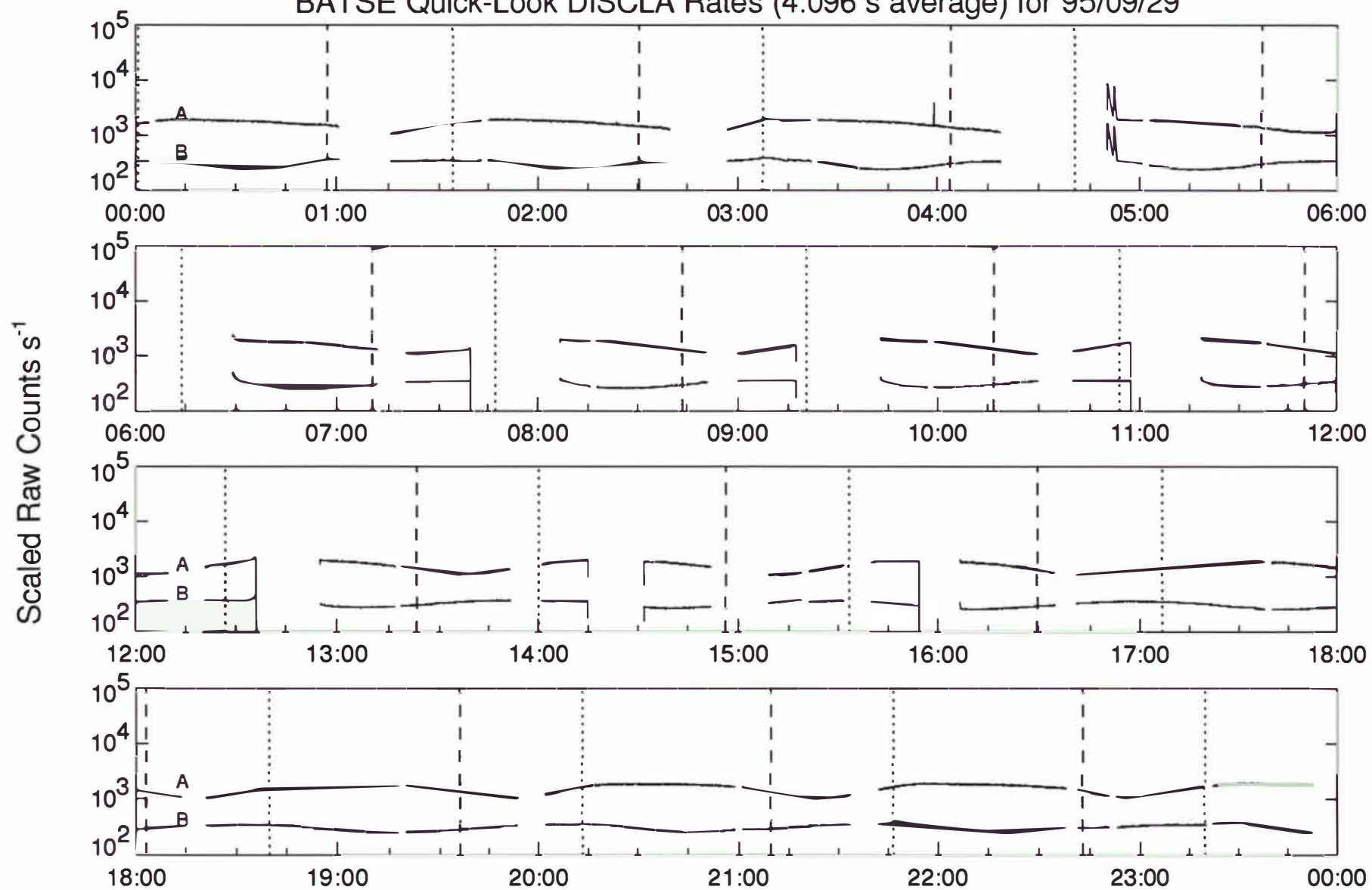
LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 RISE. NOT VISIBLE ABOVE 300 KEV.



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/29



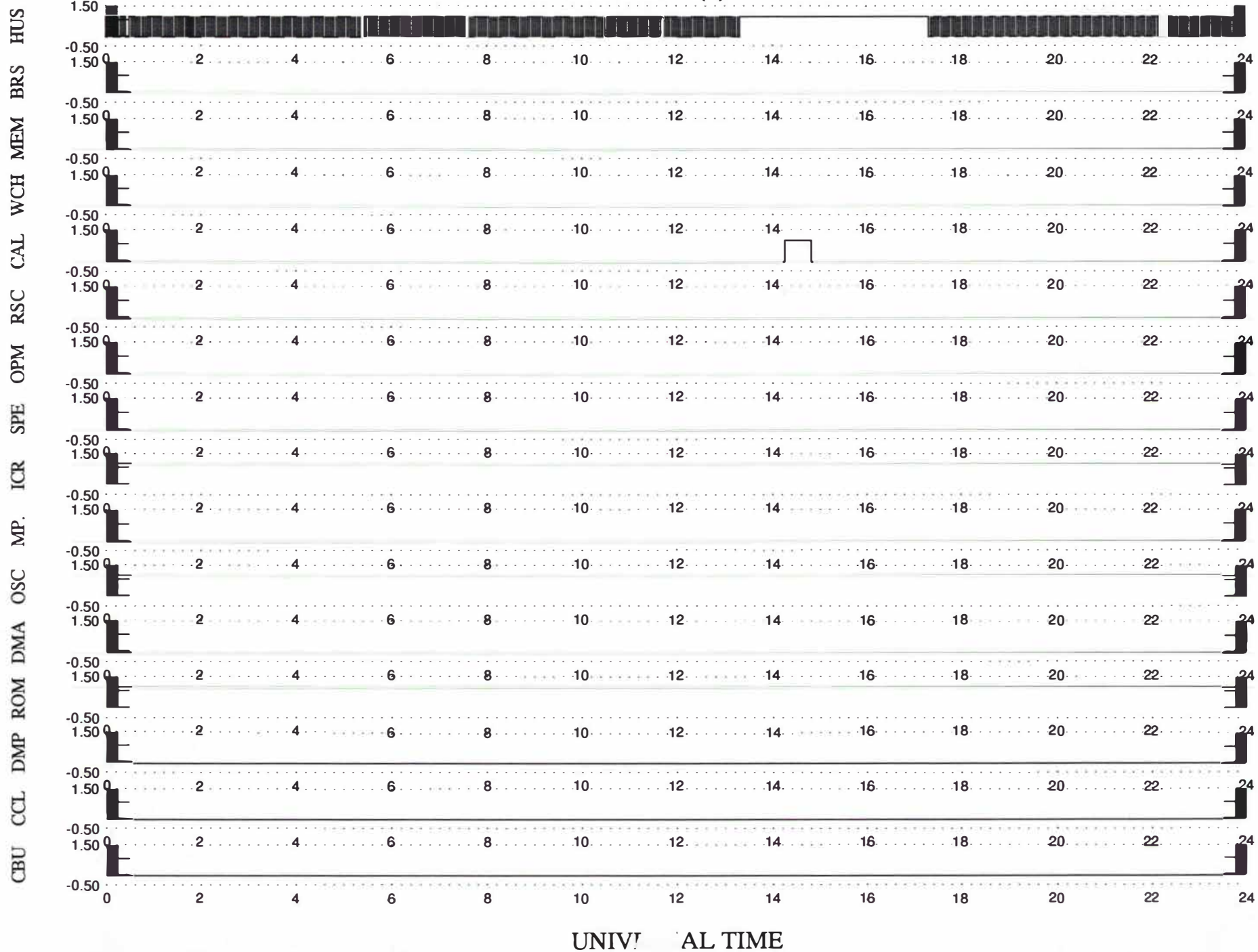
Current Time: 95/10/01, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

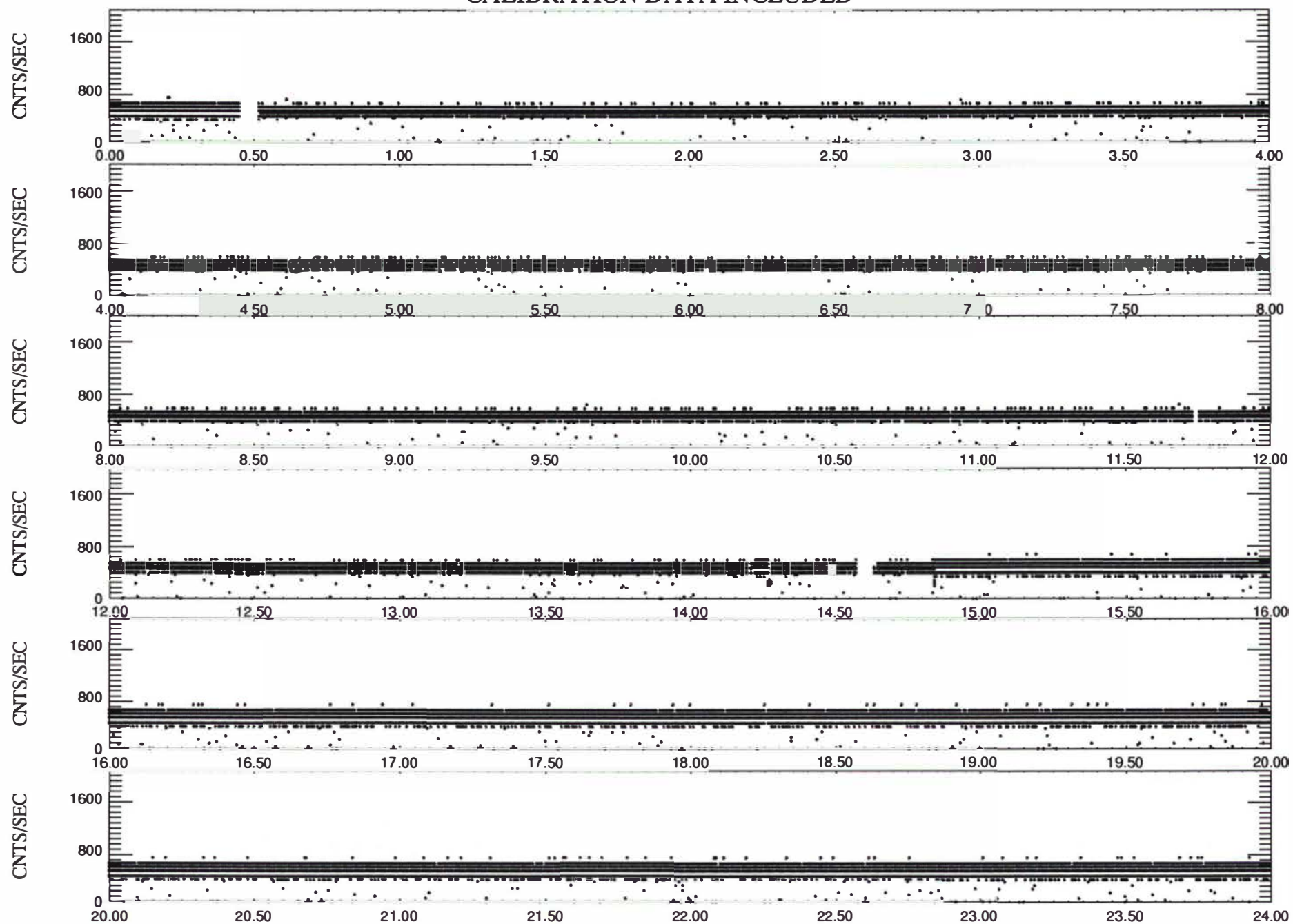
HUS MODES EDR day 272, year 1995 to day 272, year 1995
NO BURST (0)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 272, year 1995 to day 272, year 1995
CALIBRATION DATA INCLUDED

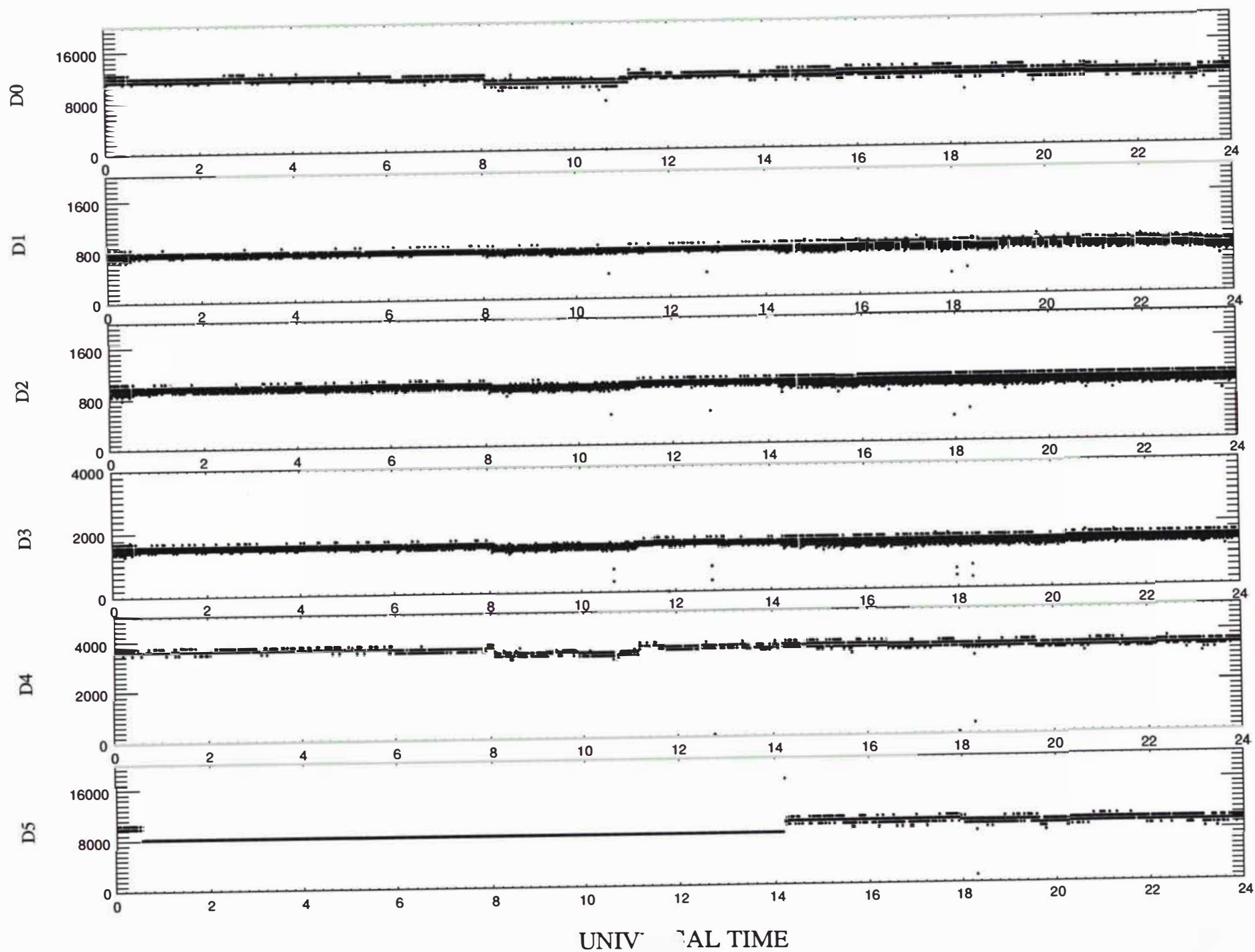
1/25/96



UNIV. TIME

HUS 2B COUNTS / SEC QEDR day 272, year 1995 to day 272, year 1995

10/2/95



From DEAL@ssl.msfc.nasa.gov Mon Oct 2 09:29 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Mon, 2 Oct 1995 11:26:32 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3826

TIME: TJD=9990 SECONDS=10513

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYGX-1 RISING OCCULTATION STEP.

From DEAL@ssl.msfc.nasa.gov Mon Oct 2 09:31 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Mon, 2 Oct 1995 11:31:19 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3827

TIME: TJD=9990 SECONDS=16110

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYGX-1 RISING OCCULTATION STEP

From DEAL@SSLLES.MSFC.NASA.GOV Mon Oct 2 09:36 PDT 1995
Date: Mon, 2 Oct 1995 11:36:16 -0500 (CDT)
From: DEAL@ssl.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3828

TIME: TJD=9990 SECONDS=21699

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYGX-1 RISING OCCULTATION STEP.

From DEAL@ssl.msfc.nasa.gov Mon Oct 2 09:39 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Mon, 2 Oct 1995 11:38:49 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@circe.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3829

TIME: TJD=9990 SECONDS=27296

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYGX-1 RISING OCCULTATION STEP

From HAGEDON@fender.msfc.nasa.gov Tue Oct 3 10:24 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Tue, 3 Oct 1995 12:24:06 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@circe.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3830

TIME: TJD=9990 SECONDS=32895

TYPE: CYG X-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 RISE. NOT VISIBLE ABOVE 300 KEV.

From HAGEDON@fender.msfc.nasa.gov Fri Oct 6 13:48 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Fri, 6 Oct 1995 15:48:40 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3831

BATSEARCH PROGRAM

*Data gap - redo
with final data*

BATSE BURST # 3831
EVENT OF 1995 SEP 30 DAY OF YEAR=273
EVENT CROSSING TIME AT BATSE : 62944. S. OR 17:29:04.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 272.000 -20.000
BATSE PEAK COUNTING RATE: 9000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 30/ 9/ 95 IS:
RA= 201.840 DEC= 60.502 DIST= 2.710 AU
BATSE-ULYSSES DISTANCE = 405401025. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 81.91 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 190.19 SECS.
CROSSING TIME AT ULYSSES IS 63134. S. OR 17:32:14 +/- 285.33 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 30/ 9/ 95 IS:
RA= 222.731 DEC= -16.872 DIST= 2.140 AU
MARS-BATSE DISTANCE = 320168064. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=133.32 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -732.65 SECS.
CROSSING TIME AT MARS IS 62211. S. OR 17:16:51 +/- 123.78 SECONDS

BATSE BURST TRIGGER

NO.: 3831

TIME: TJD=9990 SECONDS=62944

TYPE: SGR SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=76.2 AZIMUTH=70.8 ERROR=3.8 DEGREES

COMMENTS:

SGR1806-20. SINGLE SPIKE, DUR.~70 MS. NOT VISIBLE ABOVE 100 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3831	950930	9990	62944	9000	272	-20	.070

BATSEARCH PROGRAM

SGR

TSE BURST # 3831
EVENT OF 1995 SEP 30 DAY OF YEAR=273
EVENT CROSSING TIME AT BATSE : 62944. S. OR 17:29:04.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 271.000 -20.000 272.169 -20.413
BATSE PEAK COUNTING RATE: 0 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 30/ 9/ 95 IS:
RA= 201.840 DEC= 60.502 DIST= 2.710 AU
BATSE-ULYSSES DISTANCE = 405401029. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 82.35 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 179.95 SECS.
CROSSING TIME AT ULYSSES IS 63124. S. OR 17:32:03 +/- 285.42 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 30/ 9/ 95 IS:
RA= 222.730 DEC= -16.871 DIST= 2.140 AU
MARS-BATSE DISTANCE = 320169696. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=134.25 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -745.25 SECS.
CROSSING TIME AT MARS IS 62199. S. OR 17:16:38 +/- 121.49 SECONDS

close to 63134

3 / 1 0 / 9 5

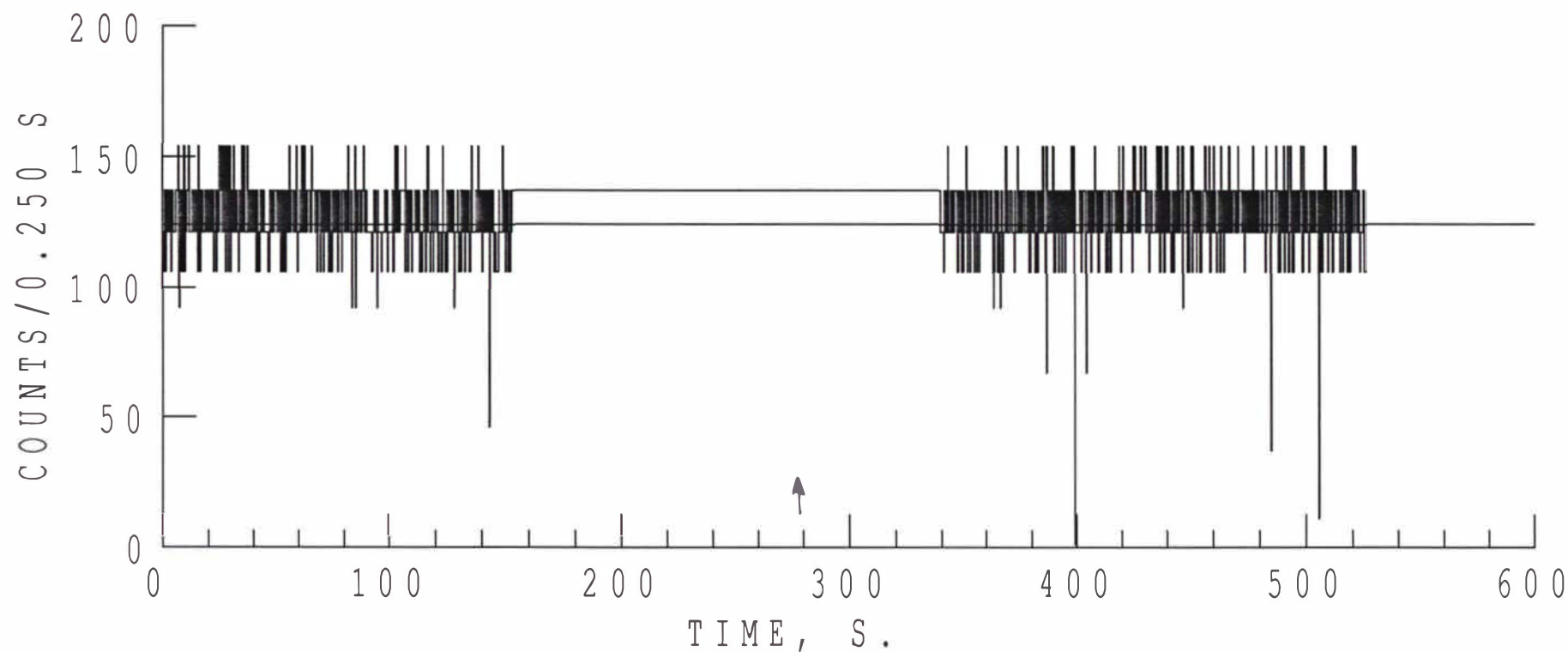
U L Y S S E S R T

3 0 / 9 / 9 5 6 2 8 5 6 . 0 6 6 s

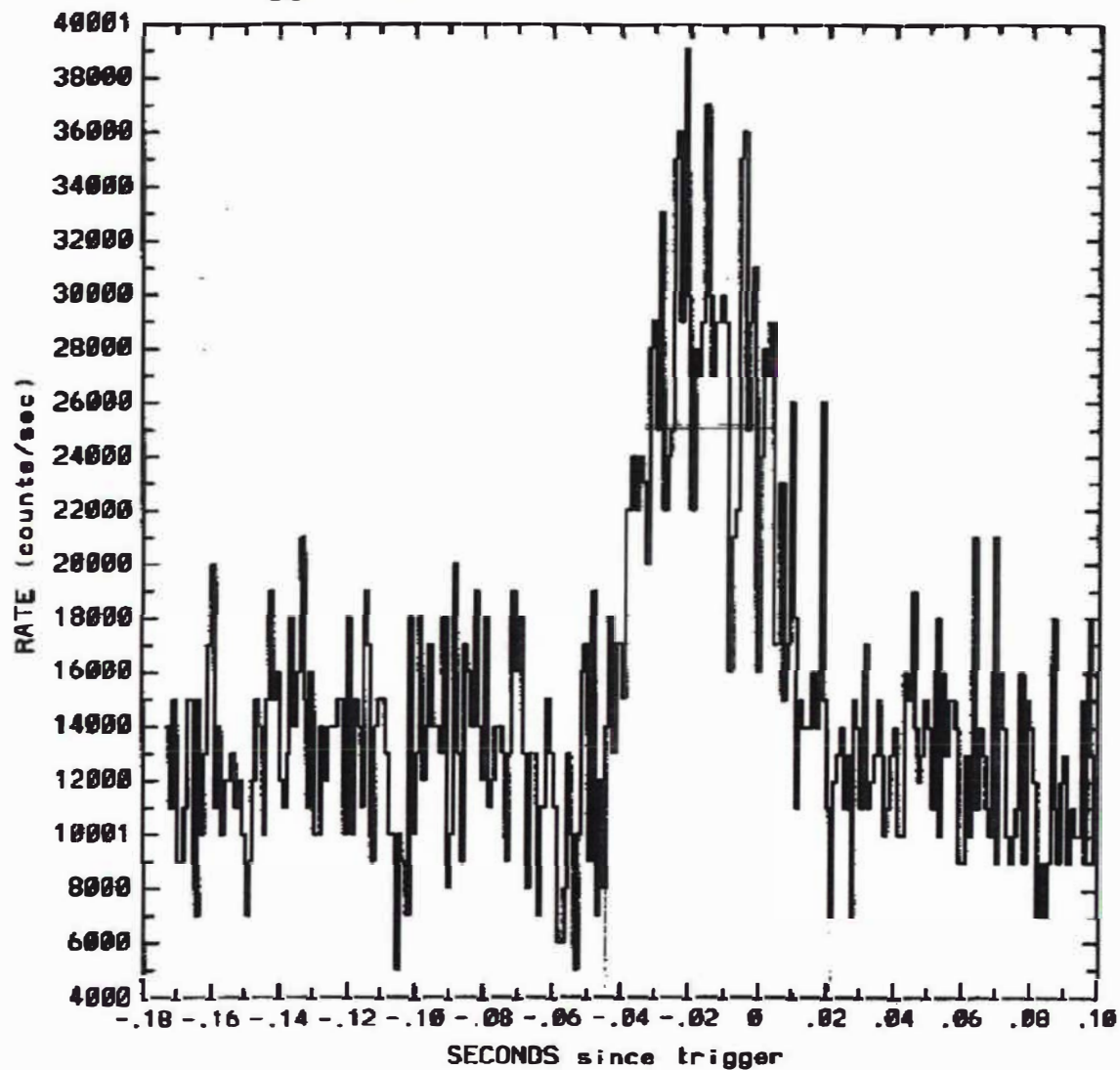
0 - 0 k e V

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



Trigger #3831



2-OCT-1995 08:56:01

Created by NOPS 80
(Burst Display)
Version t2.25

Trigger # : 3831

Trigger Time:
9998 / 62944.882Burst Data Type:
TTEMultiple Events
Ignored: 23Deadtime
Corrected: NBackground Data
Type: DISCLAMinimum Integ. Time:
0.001000 secondsDetectors [7..0]:
---4--18Discriminators:
[1 . 4]Quality Mask:
B01SP0

SGR 1806-20

C. Kouveliotou, G. J. Fishman, C. A. Meegan, and K. Hagedorn report for the Compton Observatory BATSE Team: "We have detected transient soft-gamma-ray emission from a region consistent with the location of the 'soft gamma repeater' (SGR) 1806-20. The BATSE location is centered at R.A. = 272 deg, Decl. = -20 deg and has an error radius of about 4 deg. The outburst was recorded on Sept. 30.72852 UT and consists of one pulse with a triangular shape and 60-ms duration (40 ms FWHM). The spectrum of the event has an upper energy cutoff of about 100 keV, consistent with a typical SGR spectrum. Follow-up observations of the source region at other wavelengths are strongly encouraged. "

1995 October 3

(6242)

Daniel W. E. Green

From HAGEDON@fender.msfc.nasa.gov Tue Oct 3 10:26 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Tue, 3 Oct 1995 12:25:48 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@circe.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3832

TIME: TJD=9990 SECONDS=77637

TYPE: CYG X-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 RISE. NOT VISIBLE ABOVE 300 KEV.

3831 (?)

SGR1806-20

271.5 -20

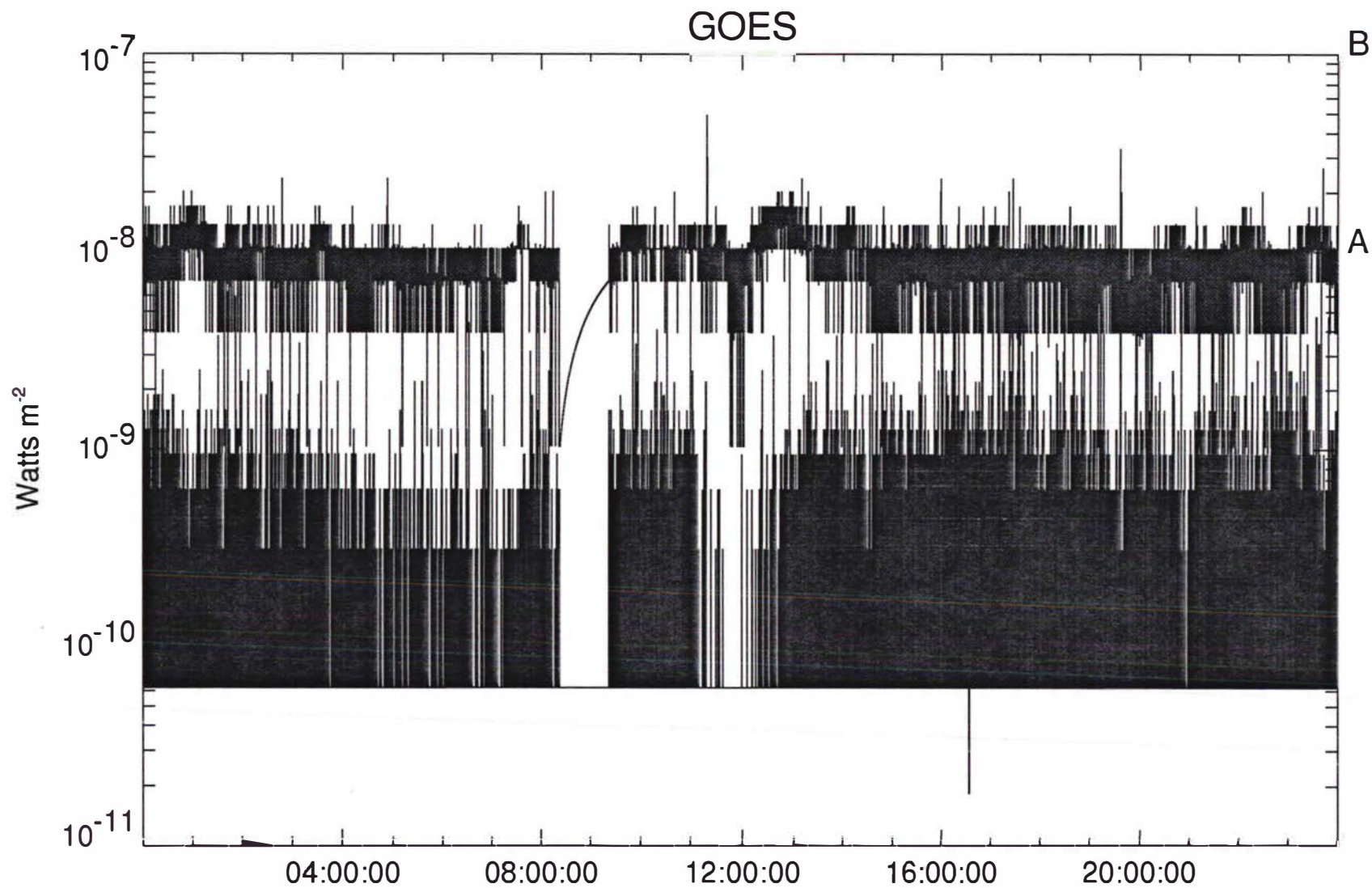
62944 s Sep 30

In 64ms data

Ch 2 big 3800
peak 7500

~ 4200 c/s in Ch 2

700 c in 128ms in Ch 1 + 2



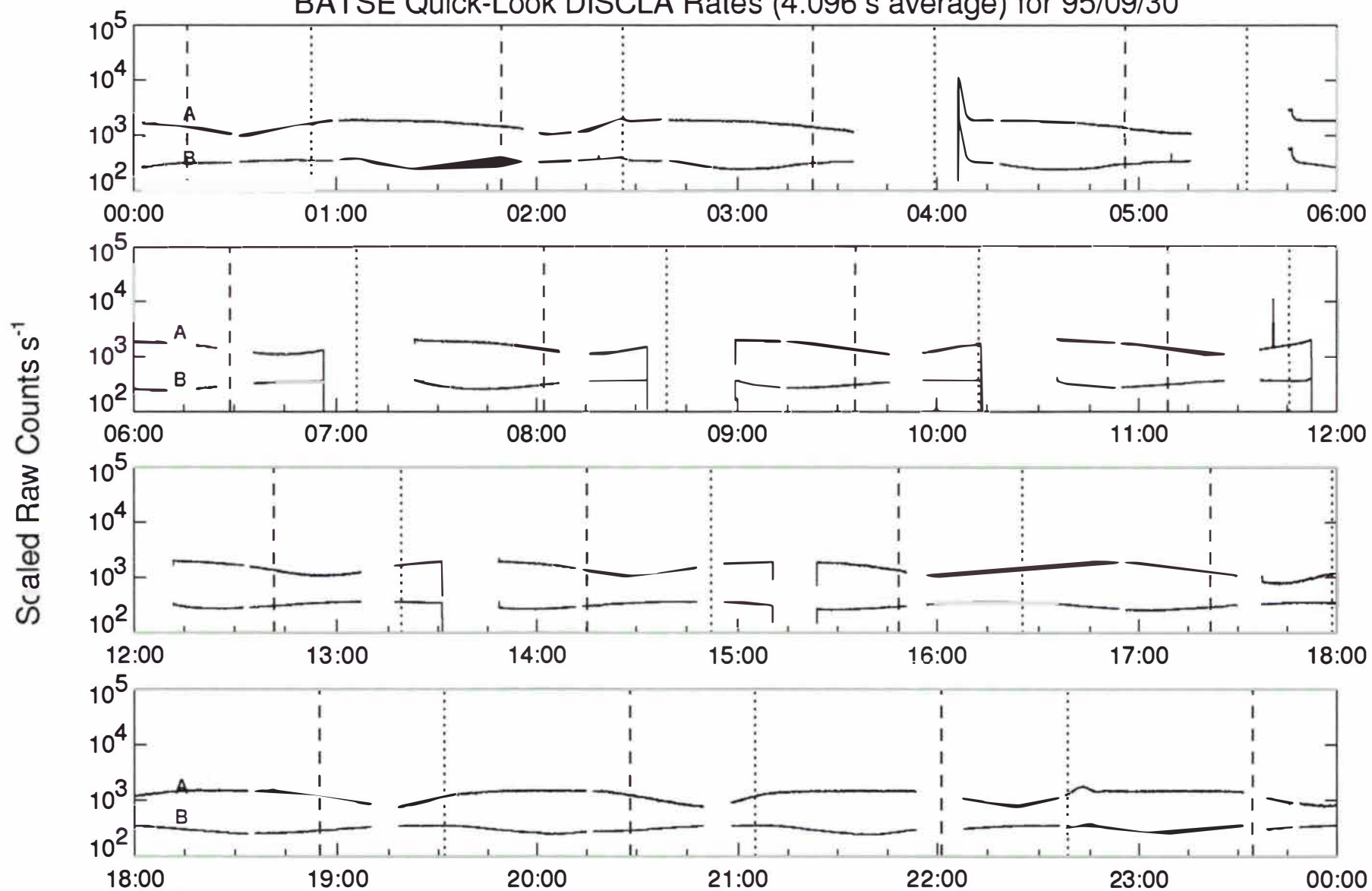
Data Start: 95/09/30, 0000:00

Plot created: 95/10/18, 1837

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/09/30



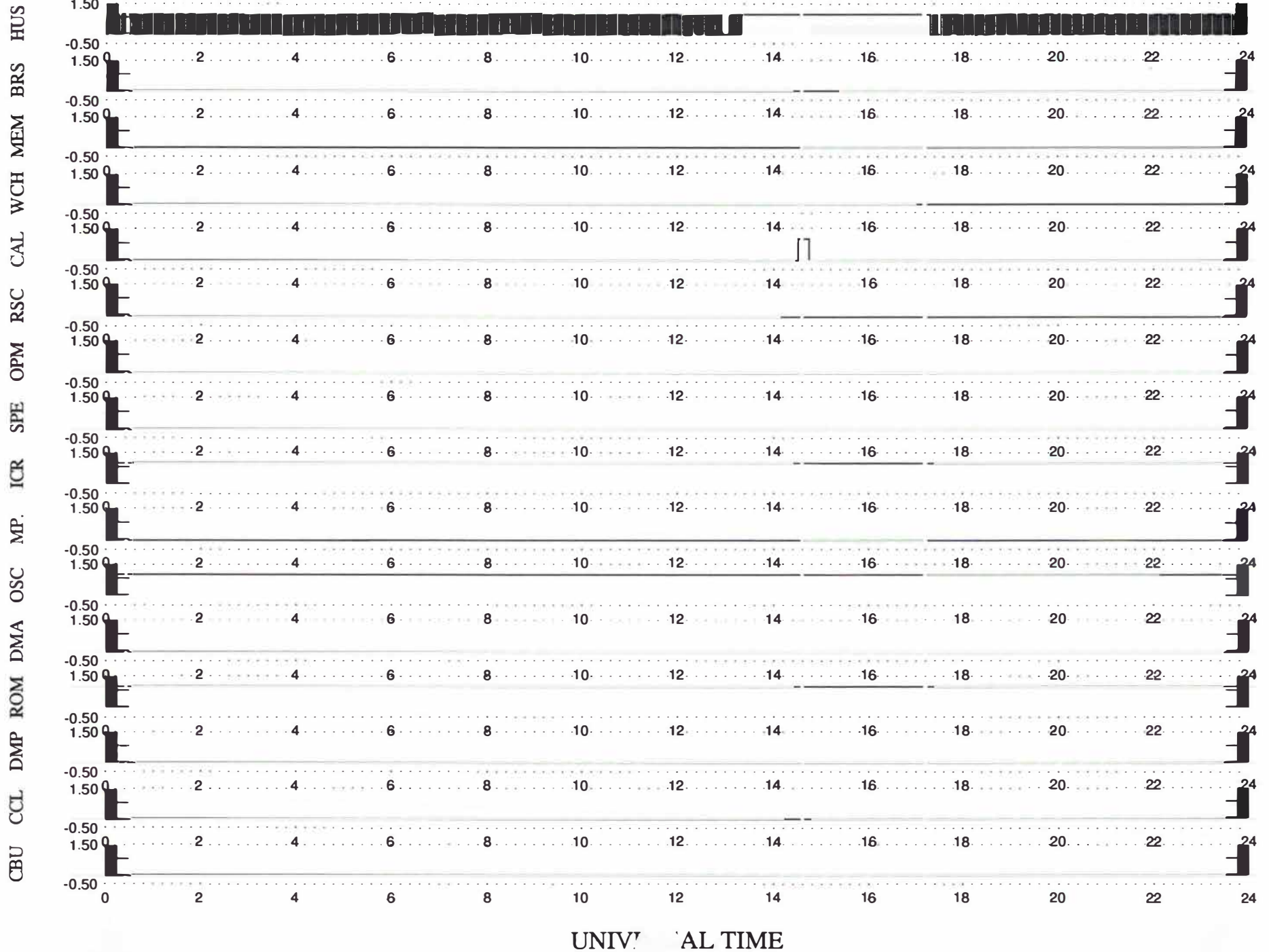
Current Time: 95/10/02, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

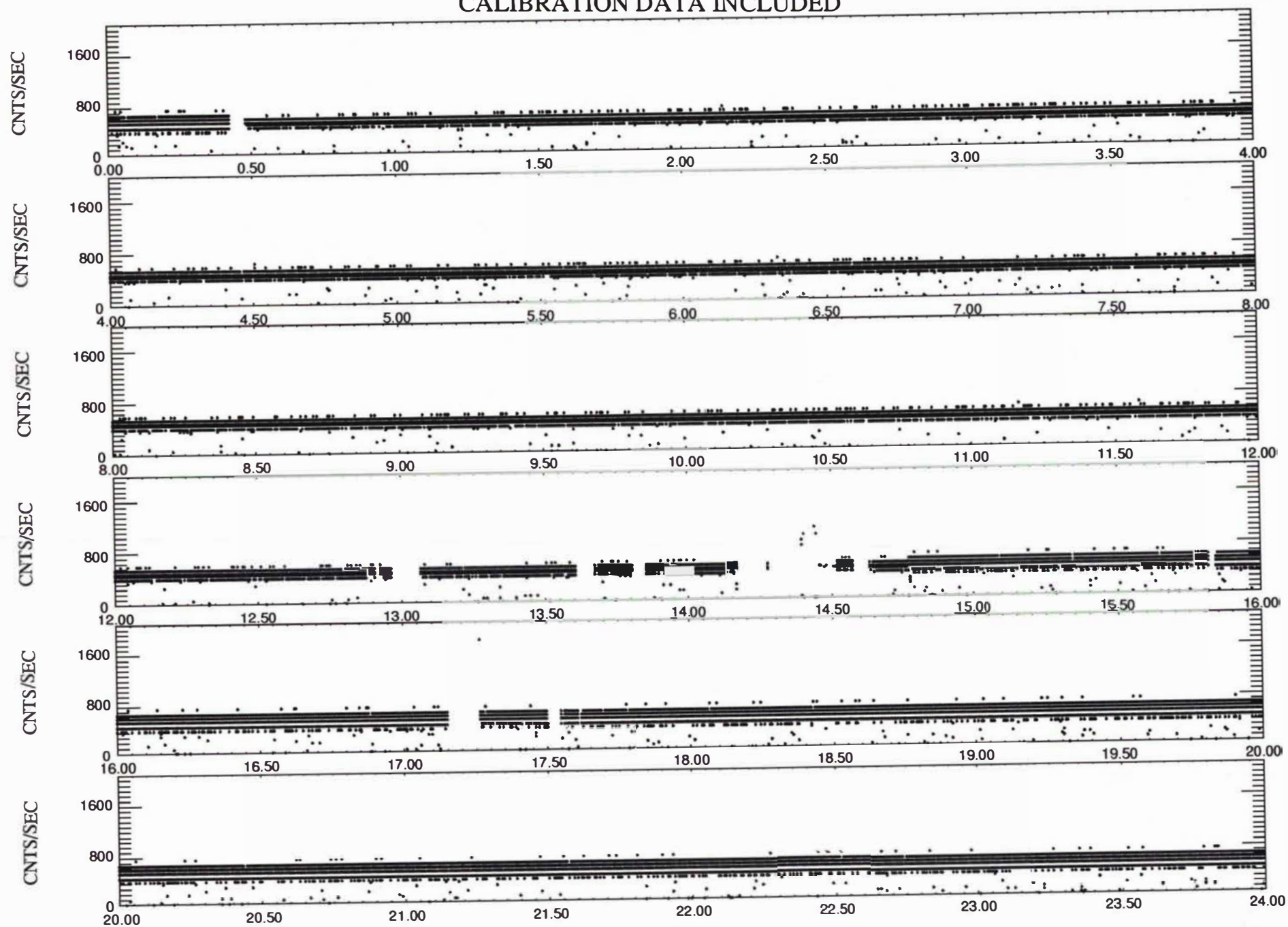
HUS MODES EDR day 273, year 1995 to day 273, year 1995
NO BURST (0)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 273, year 1995 to day 273, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME

