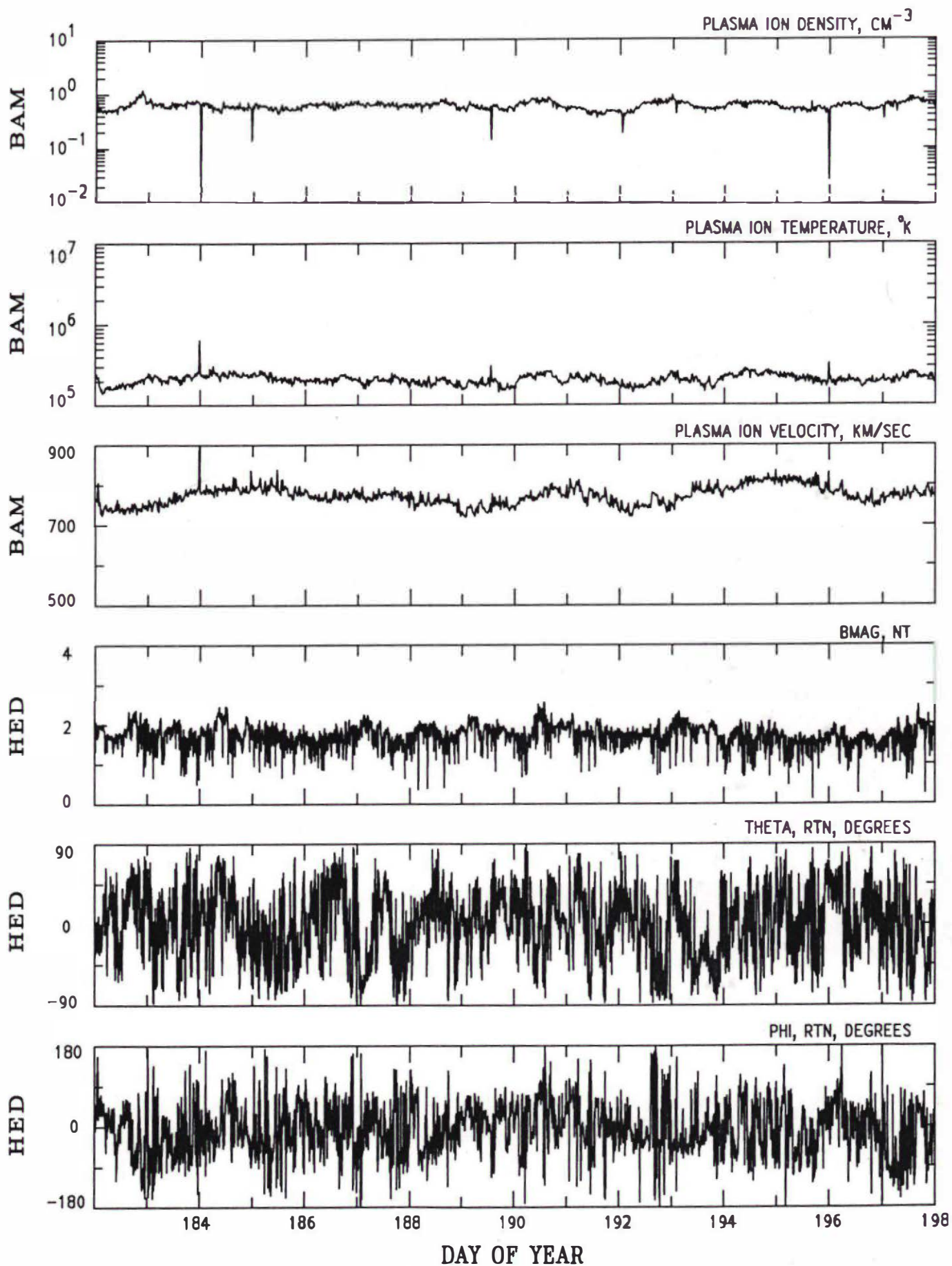


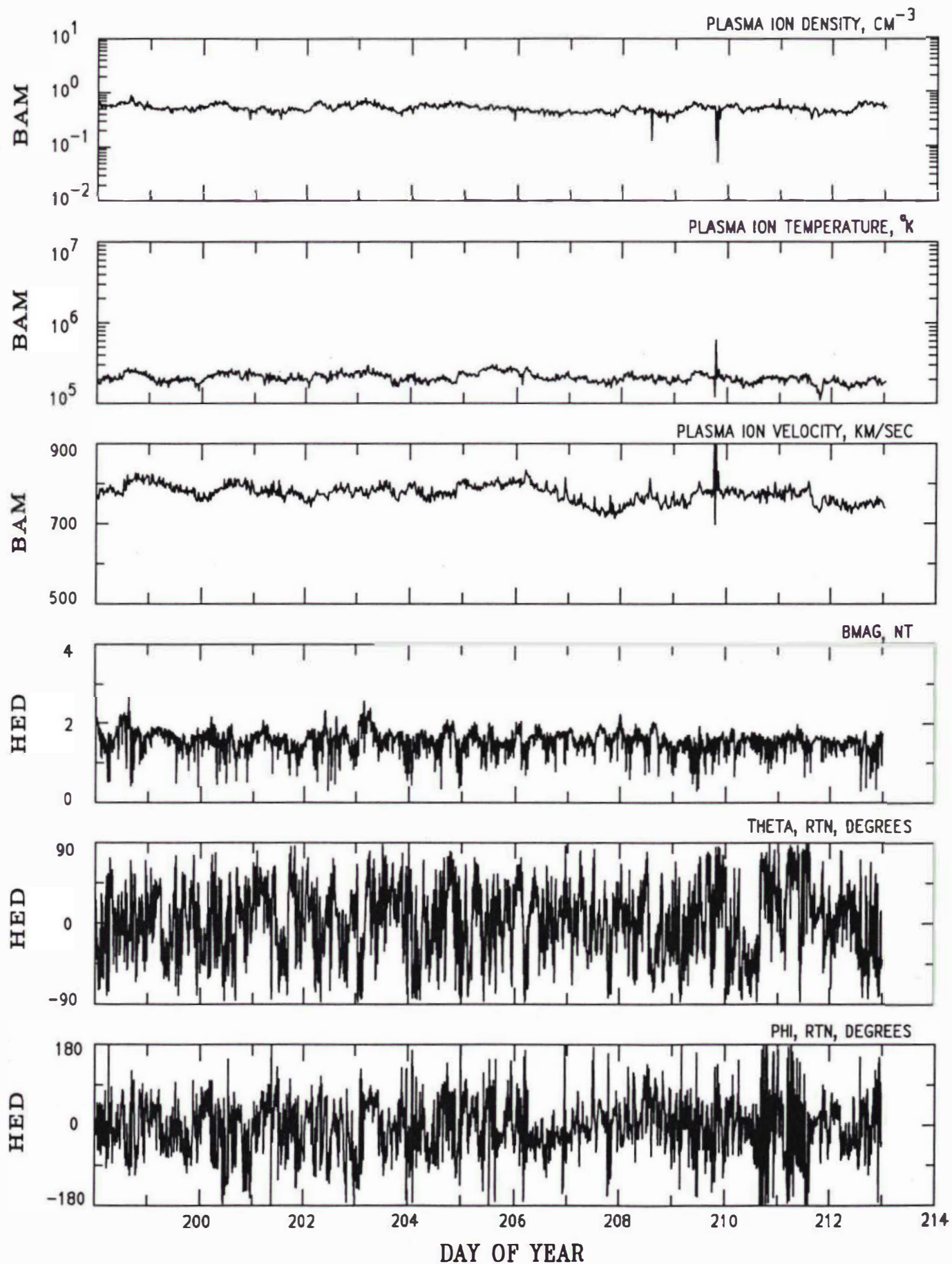
ULYSSES CDR - SOLAR WIND PLASMA AND MAGNETIC FIELD

95 182 JUL 1 00:00:00.000 - 95 198 JUL 17 00:00:00.000



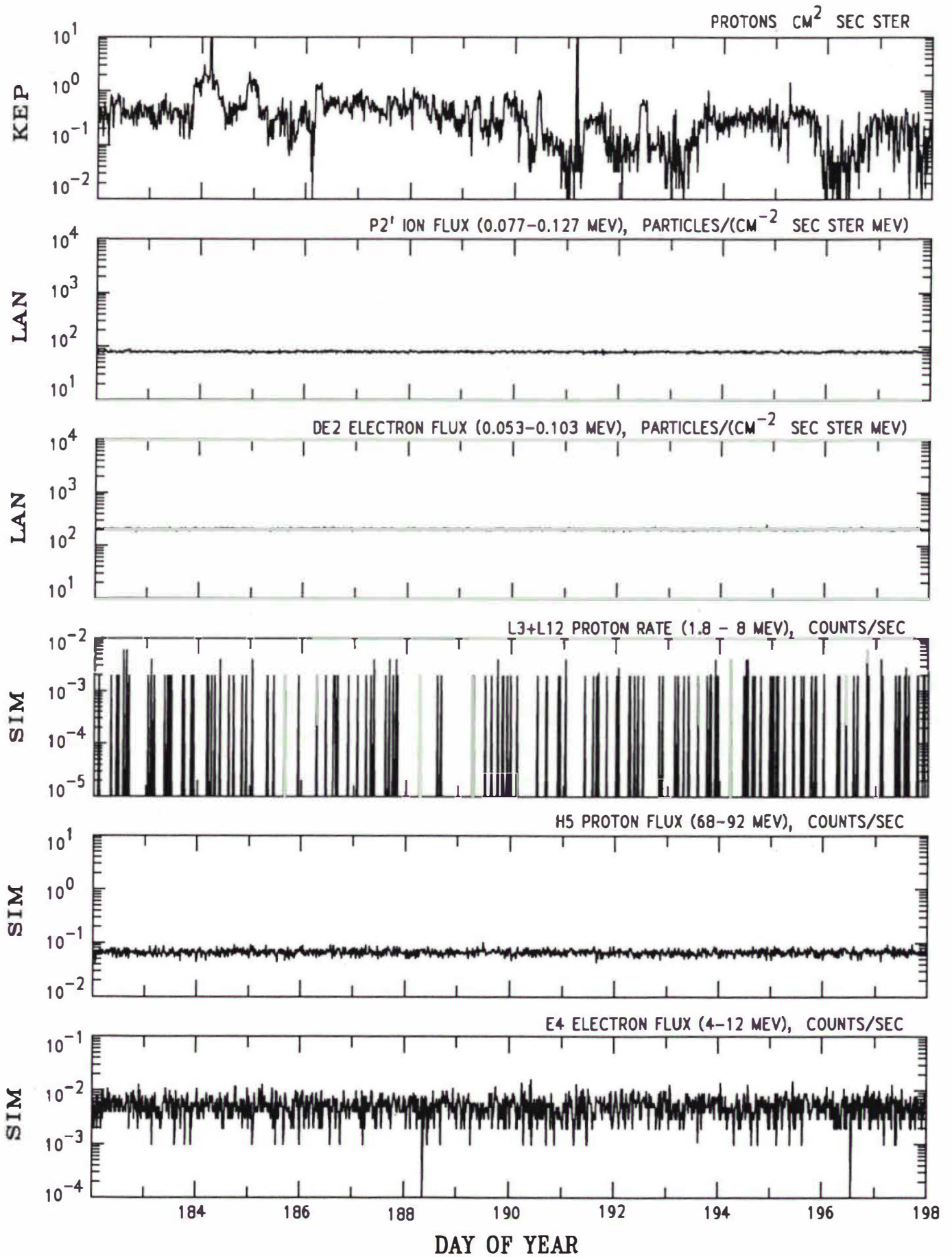
ULYSSES CDR - SOLAR WIND PLASMA AND MAGNETIC FIELD

95 198 JUL 17 00:00:00.000 - 95 214 AUG 2 00:00:00.000



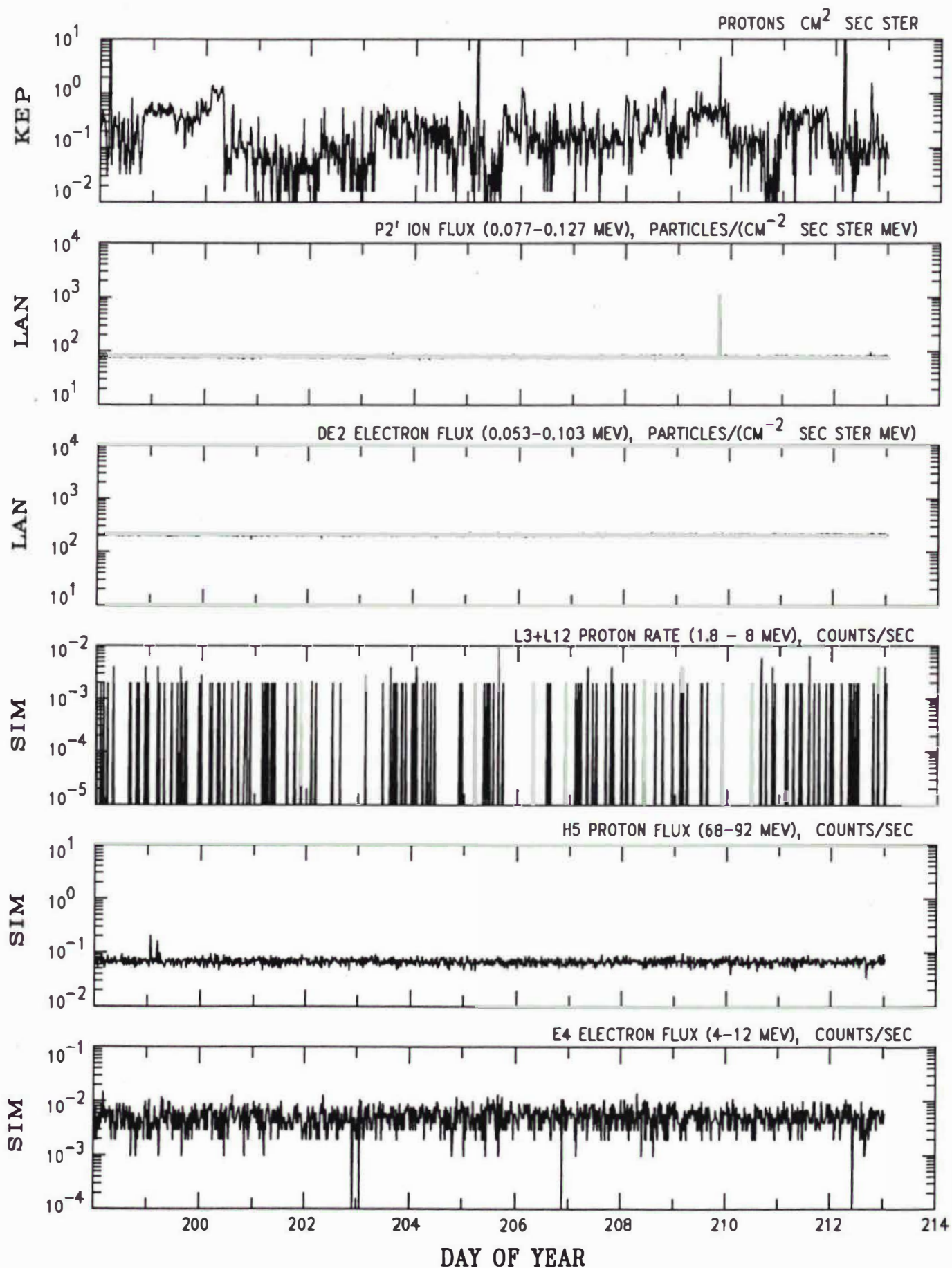
ULYSSES CDR - ENERGETIC PARTICLES, LOW ENERGY IONS AND COSMIC RAY

95 182 JUL 1 00:00:00.000 - 95 198 JUL 17 00:00:00.000



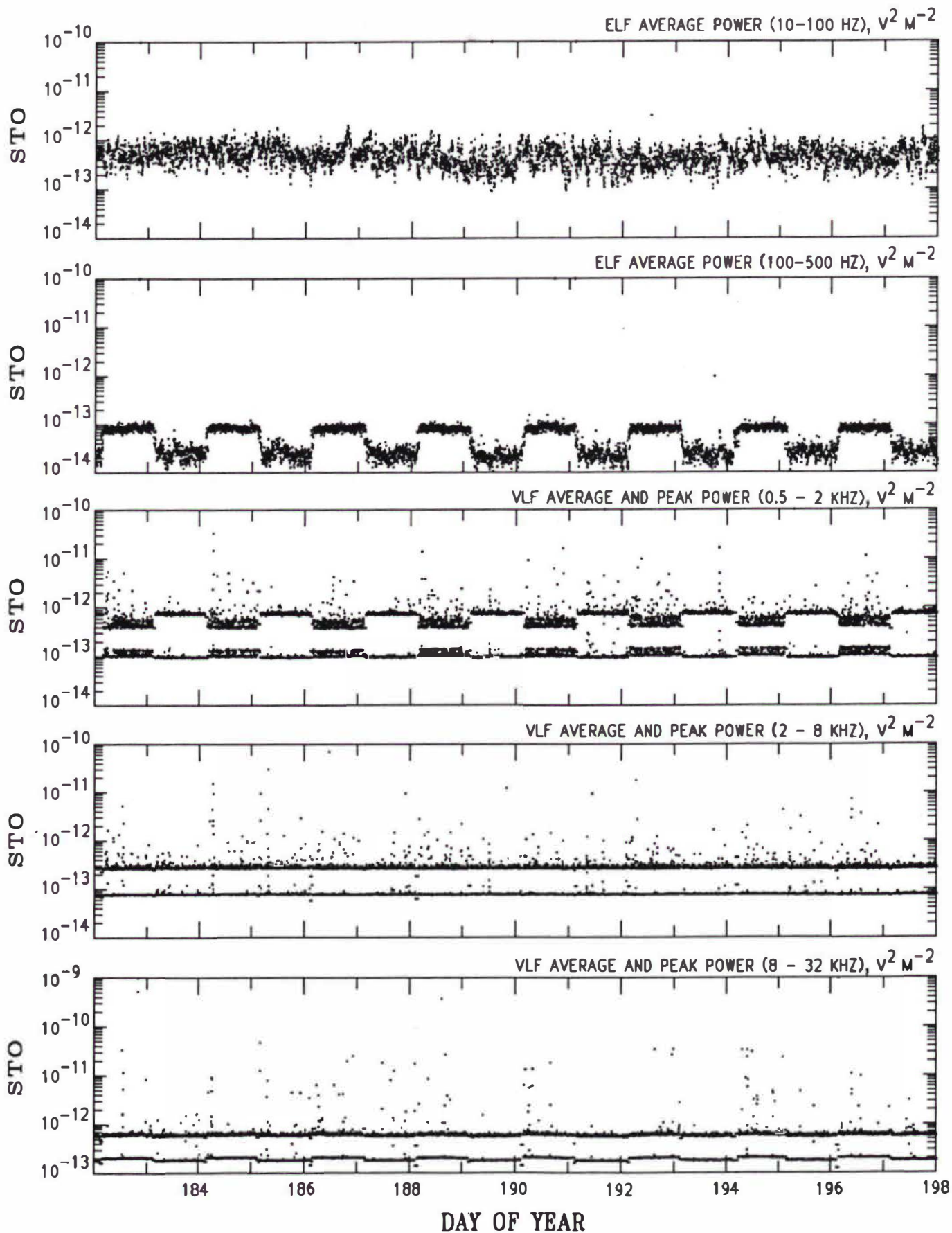
ULYSSES CDR - ENERGETIC PARTICLES, LOW ENERGY IONS AND COSMIC RAY

95 198 JUL 17 00:00:00.000 - 95 214 AUG 2 00:00:00.000



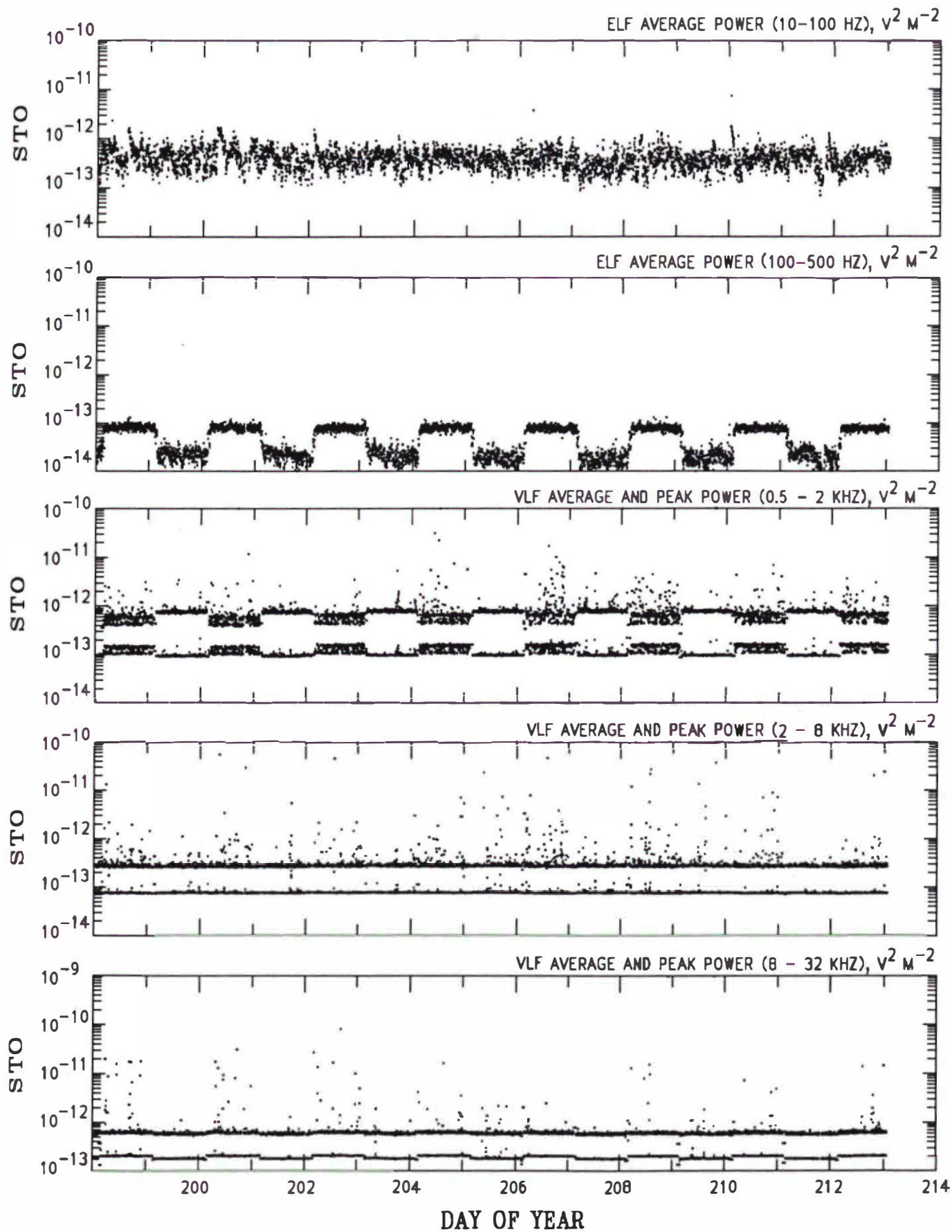
ULYSSES CDR - PLASMA WAVE

95 182 JUL 1 00:00:00.000 - 95 198 JUL 17 00:00:00.000



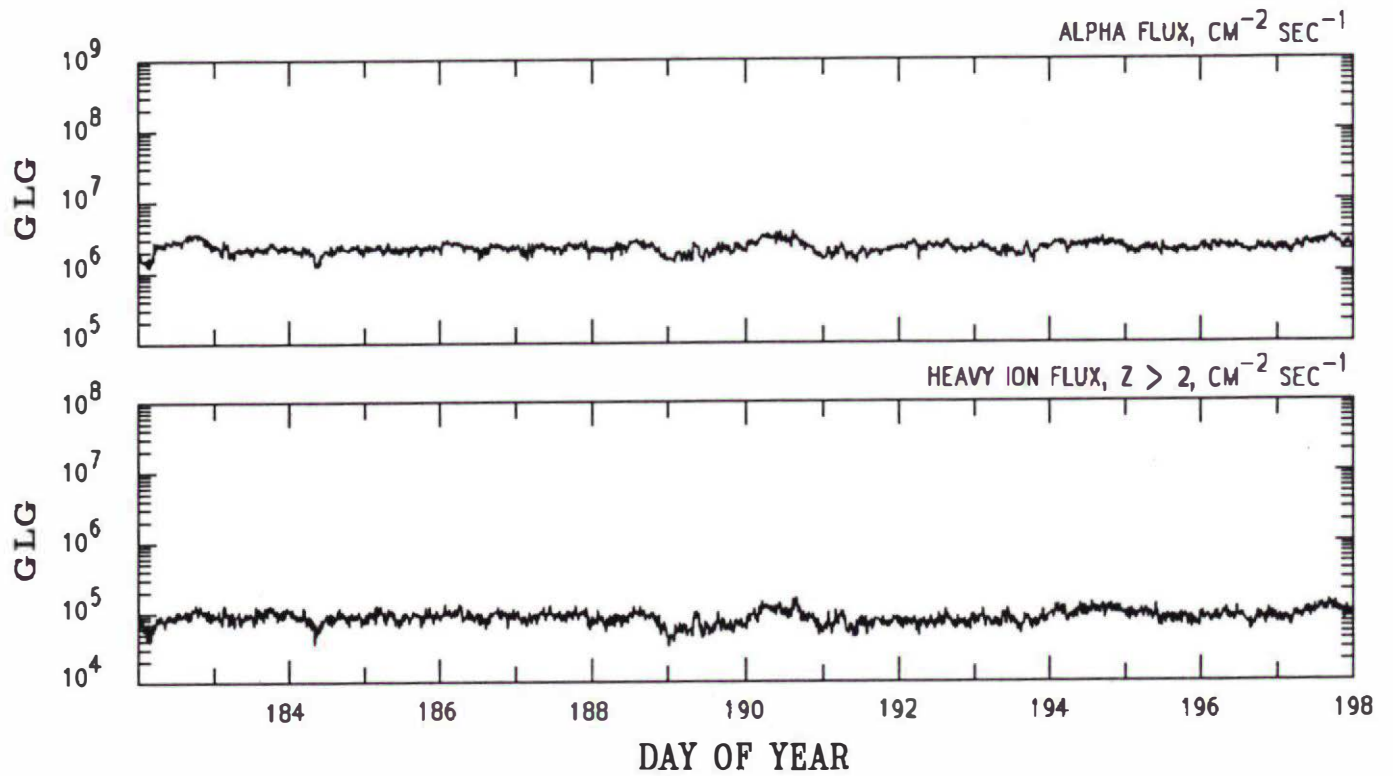
ULYSSES CDR - PLASMA WAVE

95 198 JUL 17 00:00:00.000 - 95 214 AUG 2 00:00:00.000



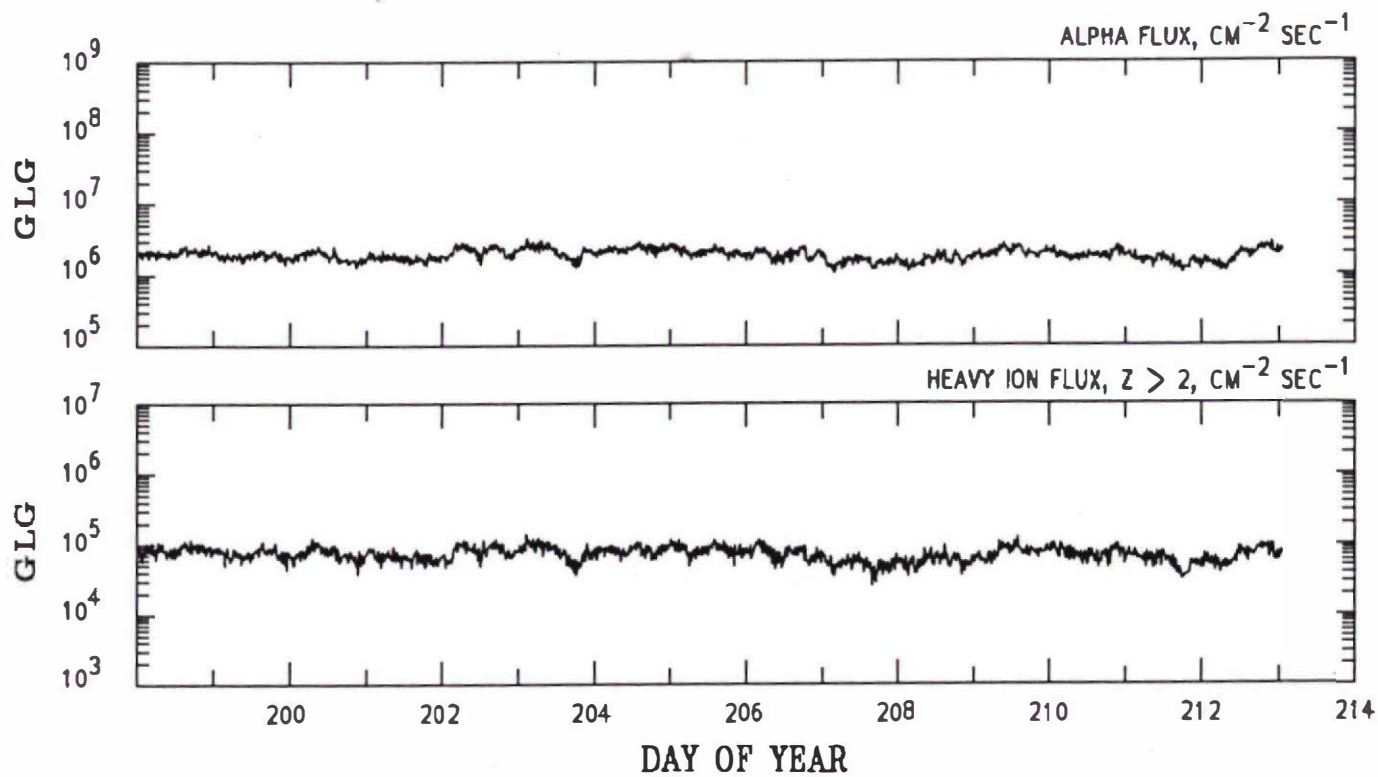
ULYSSES CDR - SOLAR WIND ION COMPOSITION

95 182 JUL 1 00:00:00.000 - 95 198 JUL 17 00:00:00.000



ULYSSES CDR - SOLAR WIND ION COMPOSITION

95 198 JUL 17 00:00:00.000 - 95 214 AUG 2 00:00:00.000



From HENZE@fender.msfc.nasa.gov Mon Jul 3 07:36 PDT 1995
From: HENZE@fender.msfc.nasa.gov
Date: Mon, 3 Jul 1995 9:33:45 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03656

TIME: TJD=9899 SECONDS=08859

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HENZE@SSLLES.MSFC.NASA.GOV Mon Jul 3 11:29 PDT 1995
Date: Mon, 3 Jul 1995 13:29:07 -0500 (CDT)
From: HENZE@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3657

BATSEARCH PROGRAM

Trigger

BATSE BURST # 3657
EVENT OF 1995 JUL 1 DAY OF YEAR=182
EVENT CROSSING TIME AT BATSE : 12758. S. OR 03:32:38.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 320.000 -21.000
BATSE PEAK COUNTING RATE: 74000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 1/ 7/ 95 IS:
RA= 31.211 DEC= 72.550 DIST= 2.059 AU
BATSE-ULYSSES DISTANCE = 308099413. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 75.42 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 258.68 SECS.
CROSSING TIME AT ULYSSES IS 13017. S. OR 03:36:56 +/- 226.61 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 1/ 7/ 95 IS:
RA= 169.599 DEC= 5.299 DIST= 1.651 AU
MARS-BATSE DISTANCE = 246939616. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 32.71 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 693.04 SECS.
CROSSING TIME AT MARS IS 13451. S. OR 03:44:11 +/- 87.81 SECONDS

BATSE BURST TRIGGER

NO.: 03657

TIME: TJD=9899 SECONDS=12758

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=067.8 AZIMUTH=125.3 ERROR= DEGREES

COMMENTS:

COMPLEX, TWO PULSES, TOTAL DUR. ~45 S. MAIN MAX AT ~T+8 S.
MAX OF SECOND PULSE AT ~T+30 S. VISIBLE ABOVE 300 KEV

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3657	950701	9899	12758	74000	320	-21	45

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	

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 yosimori@rikkyo.ac.jp Tue Dec 19 01:40 PST 1995
From: "M. Yoshimori" <yosimori@rikkyo.ac.jp>
Date: Tue, 19 Dec 1995 18:39:14 +0900
To: khurley@space6.ssl.berkeley.edu
Cc: yosimori@rikkyo.ac.jp
Subject: Yohkoh gamma-ray burst candidates

Dear Dr.Hurley,

We found the following four candidates of gamma-ray bursts from Yohkoh.

Could you investigate whether these four events were simultaneously observed with Ulysses or BATSE ?

1. 1995 July 1 03:32:41 UT
2. 1995 July 4 03:10:34 UT
3. 1995 Aug. 4 01:58:56 UT
4. 1995 Aug.22 03:49:10 UT

These onset times are not finalized, so there may be some errors.
If you need the time profiles, I can send them by FAX.

Thank you for your cooperation.

Best regards,

M.Yoshimori

Helio corr removed
Date: Feb 17 '98

BURST TRIANGULATION CHECKLIST

I. 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

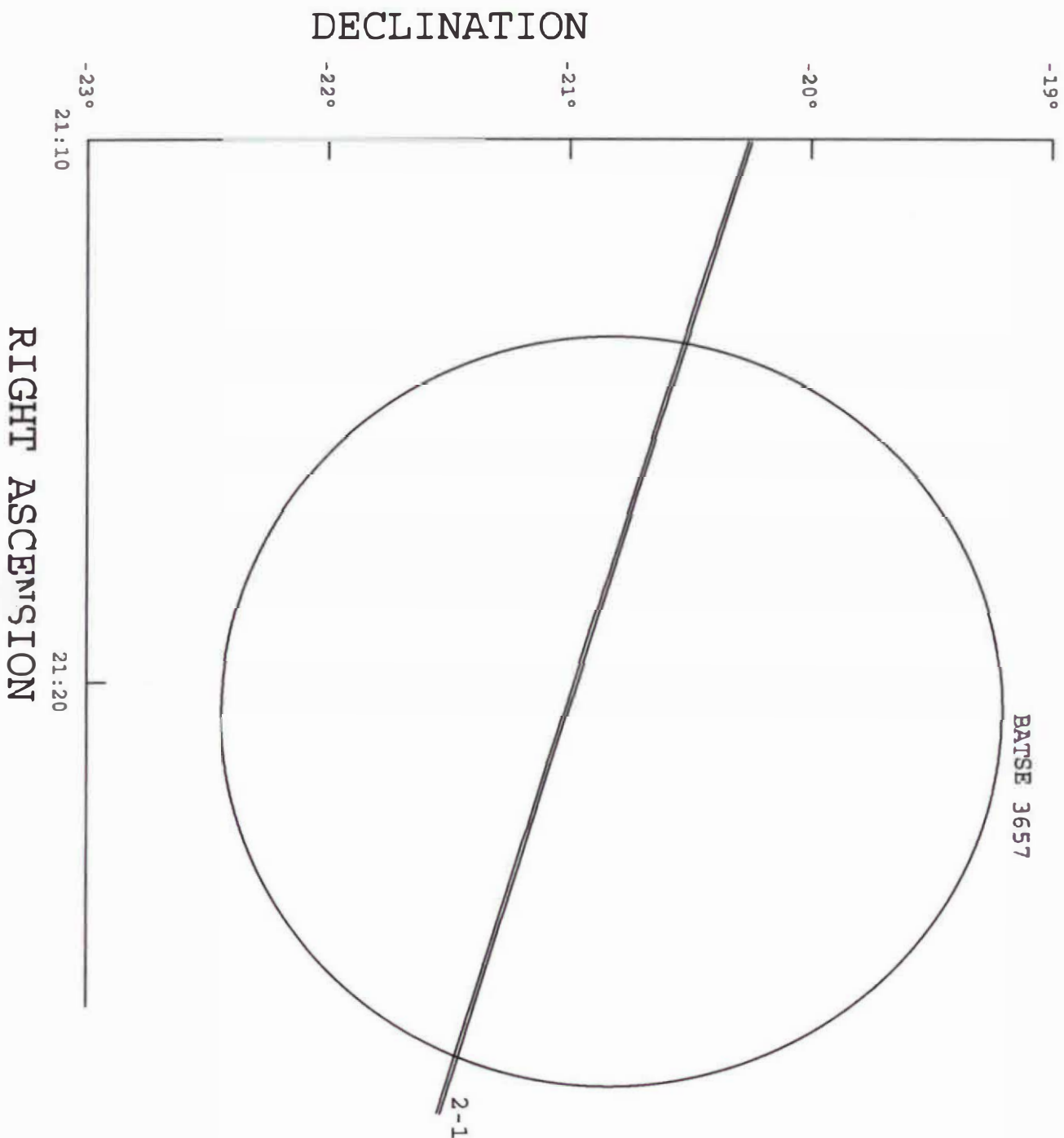
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF JUL 1, 1995 3:37

17 / 2/98



ULYSSES

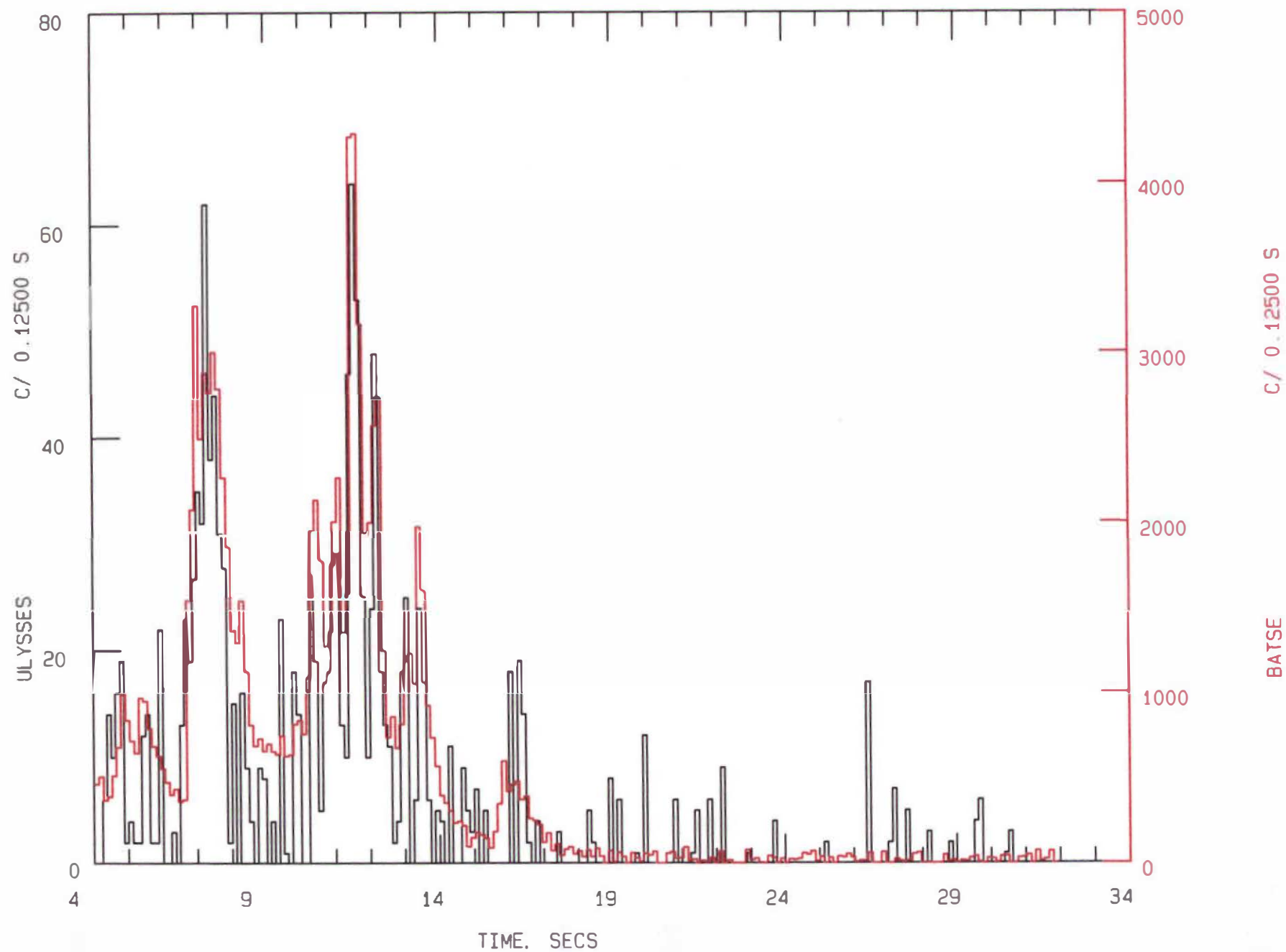
-BATSE

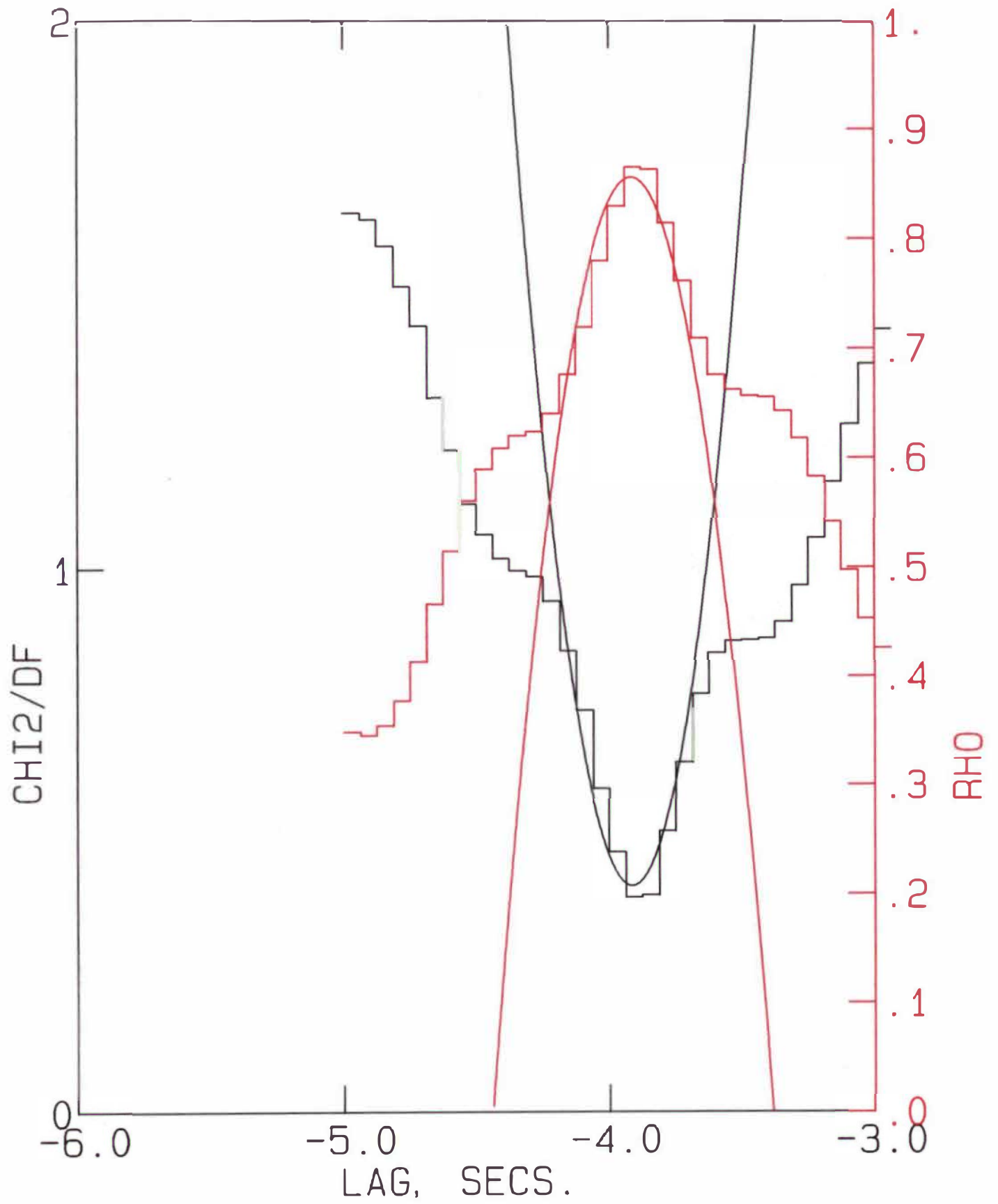
CORRELATION

01/07/95

13026.778

17/ 2/98





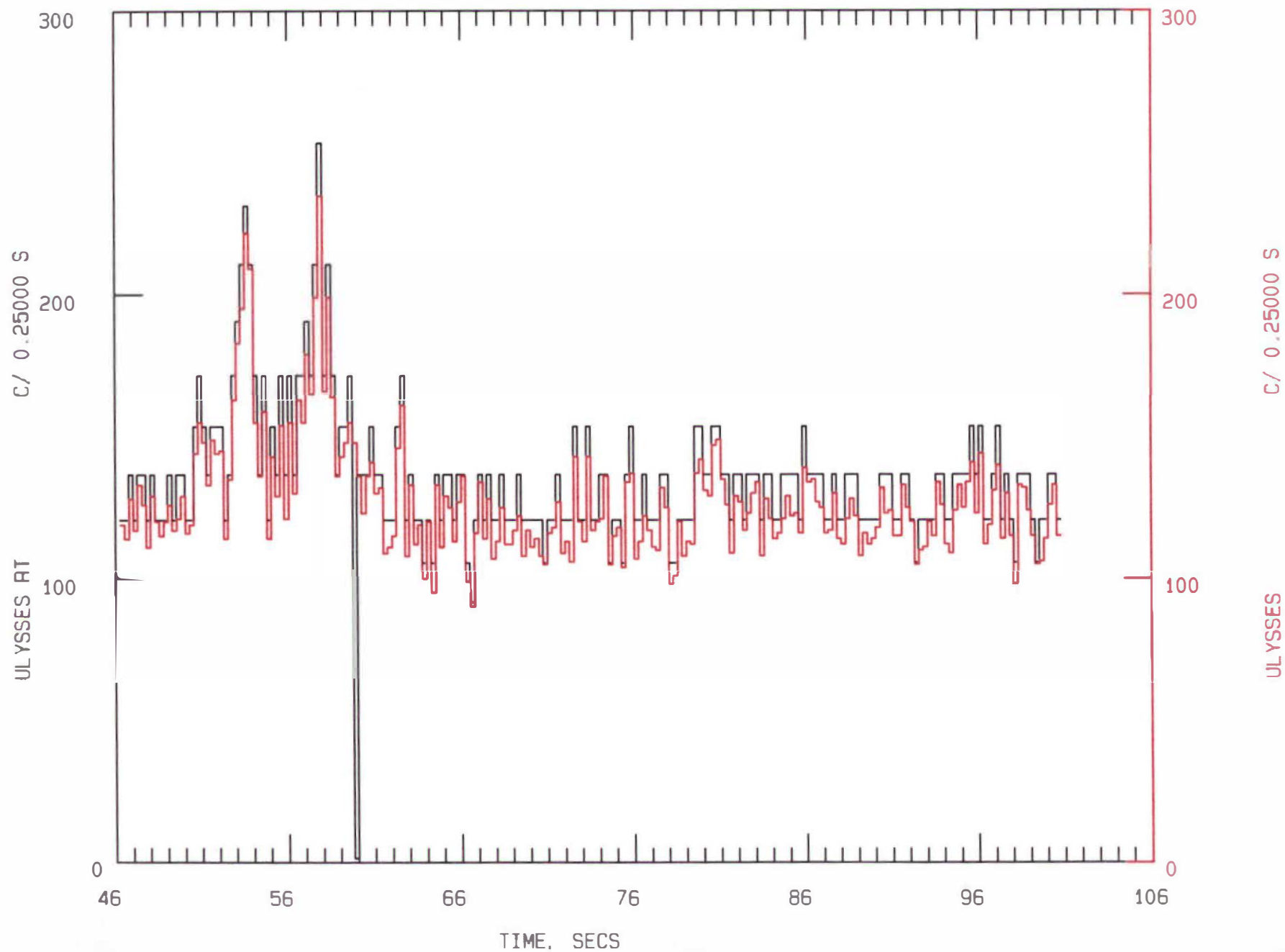
ULYSSES RT-ULYSSES

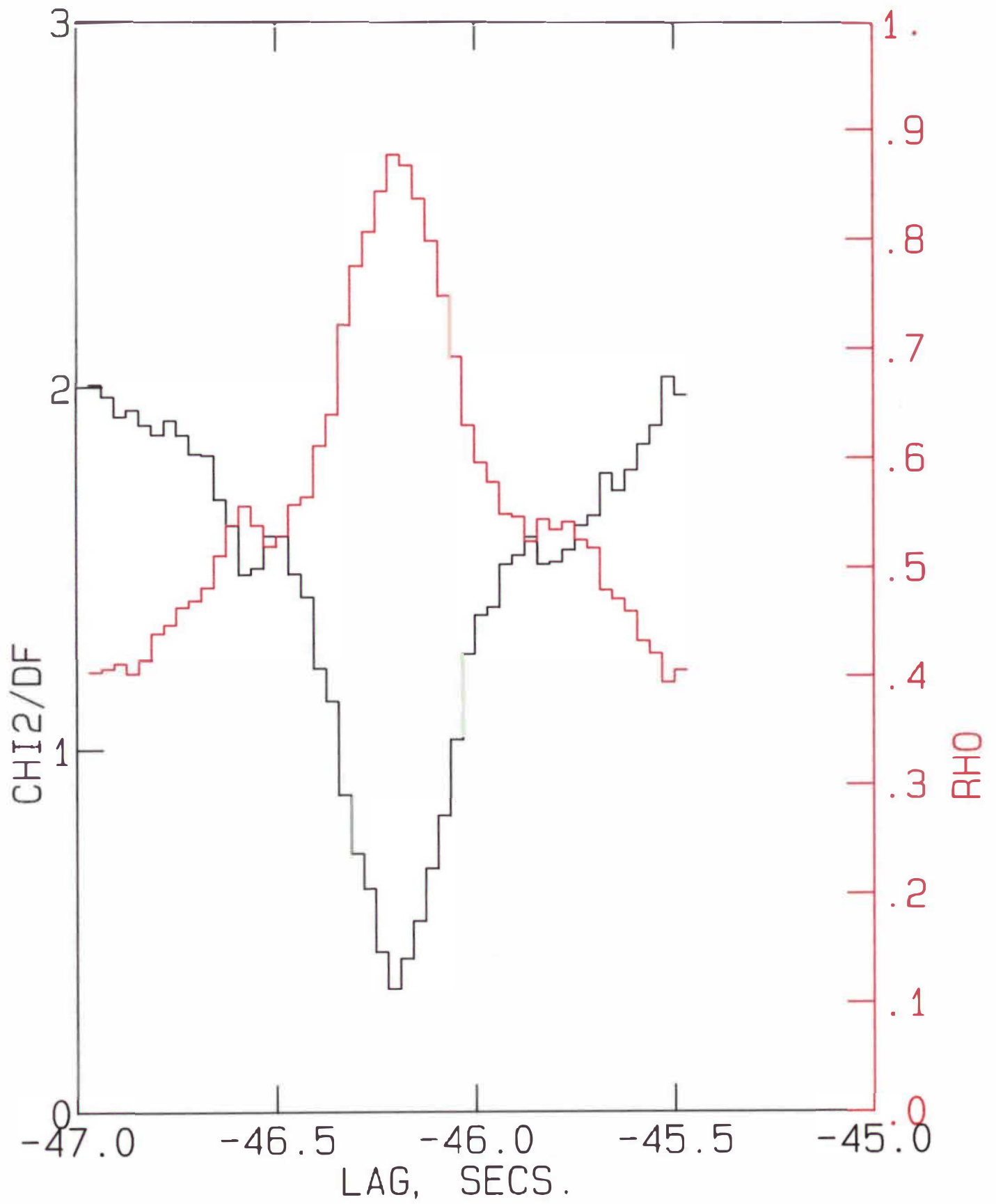
CORRELATION

1/ 7/95

12973.170

17/ 2/98

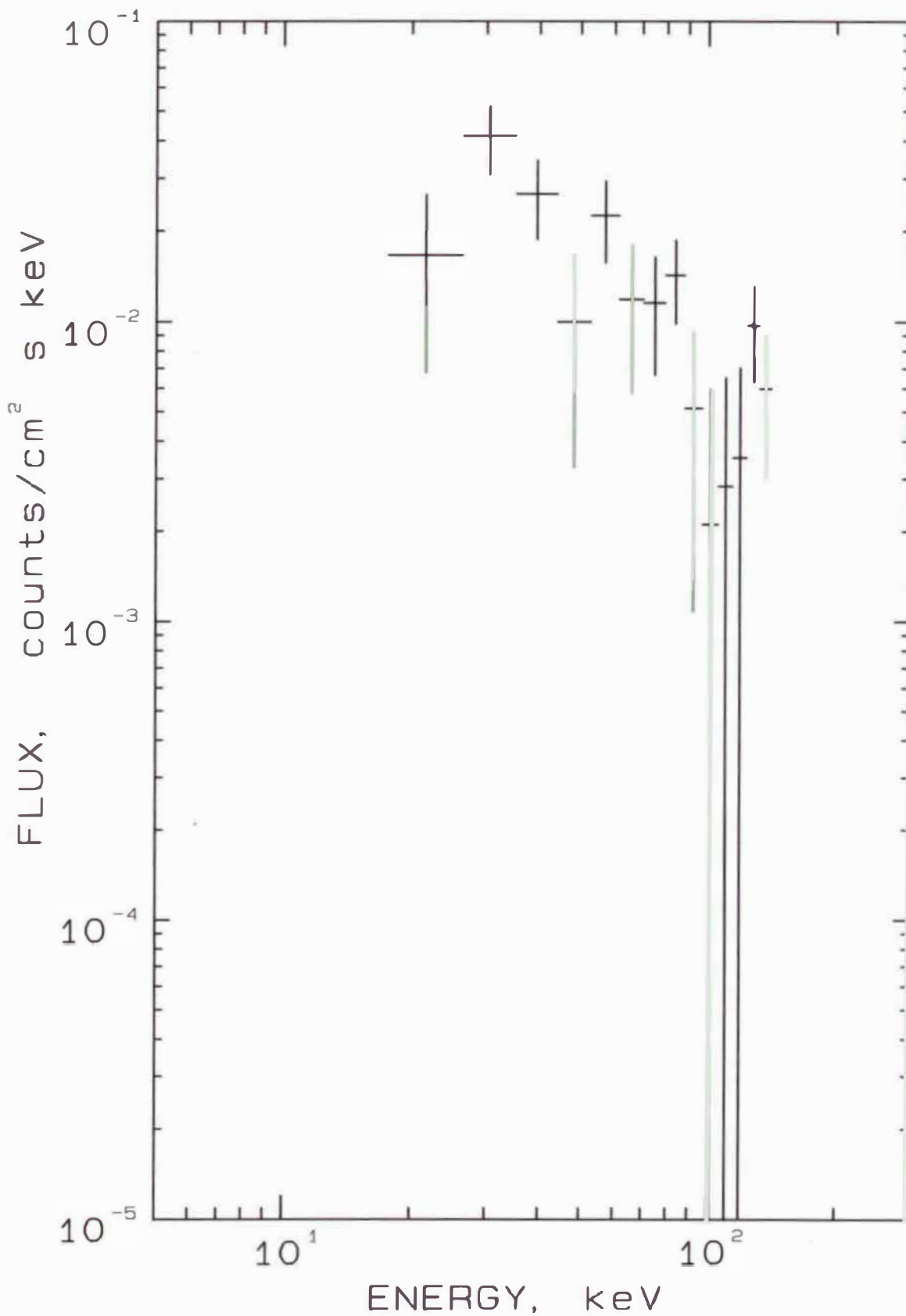




ULYSSES 01/07/95 13026.734

17/ 2/98

SPECTRUM INTEGRATED OVER 63.2 SECONDS, INTERVALS 2 TO 34



ULYSSES 01/07/95 13026.734 BURST SPECTRAL COUNT RATES

4- 17 keV

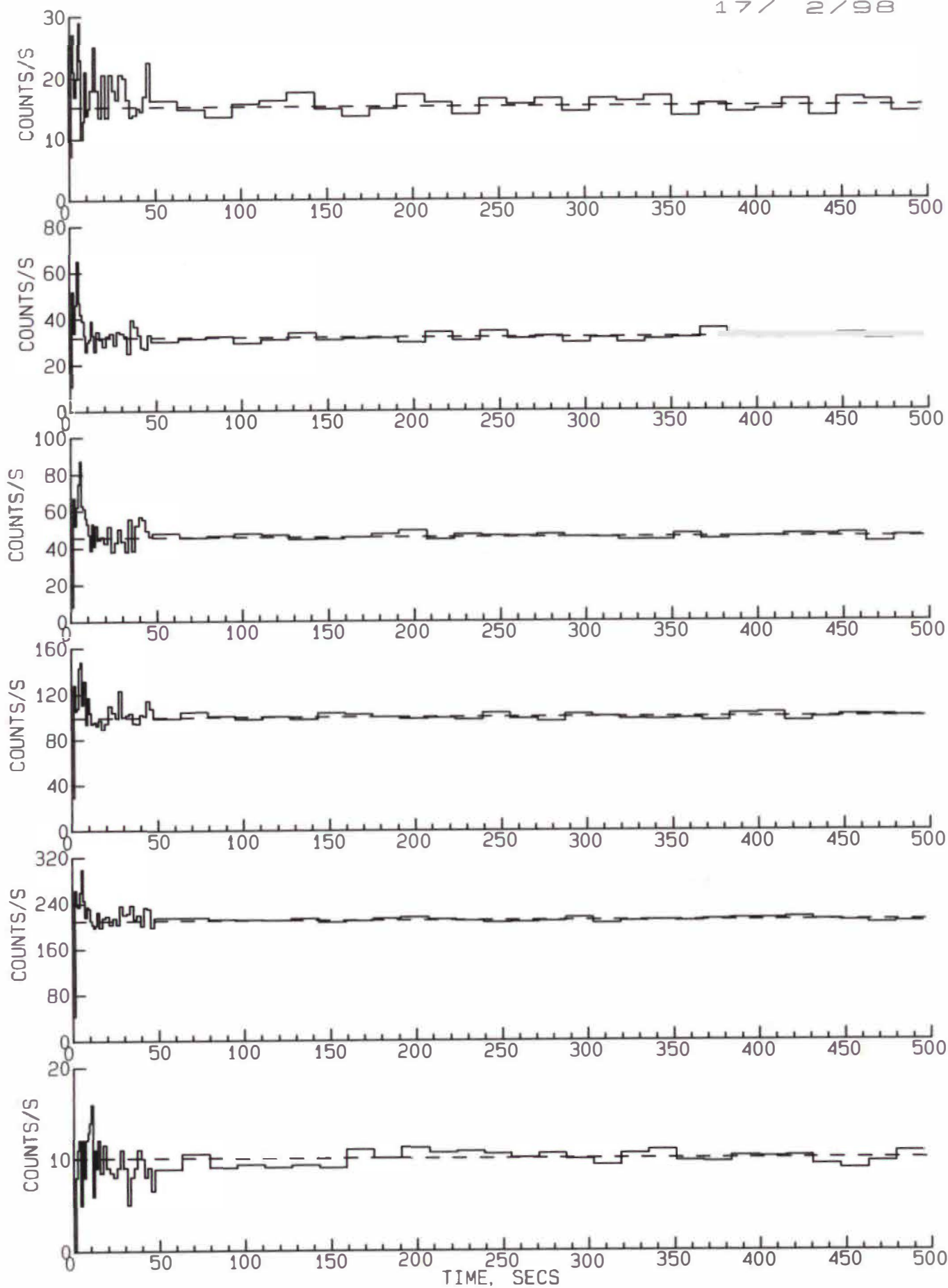
17- 44 keV

44- 70 keV

70- 97 keV

97-123 keV

123-141 keV



ULYSSES

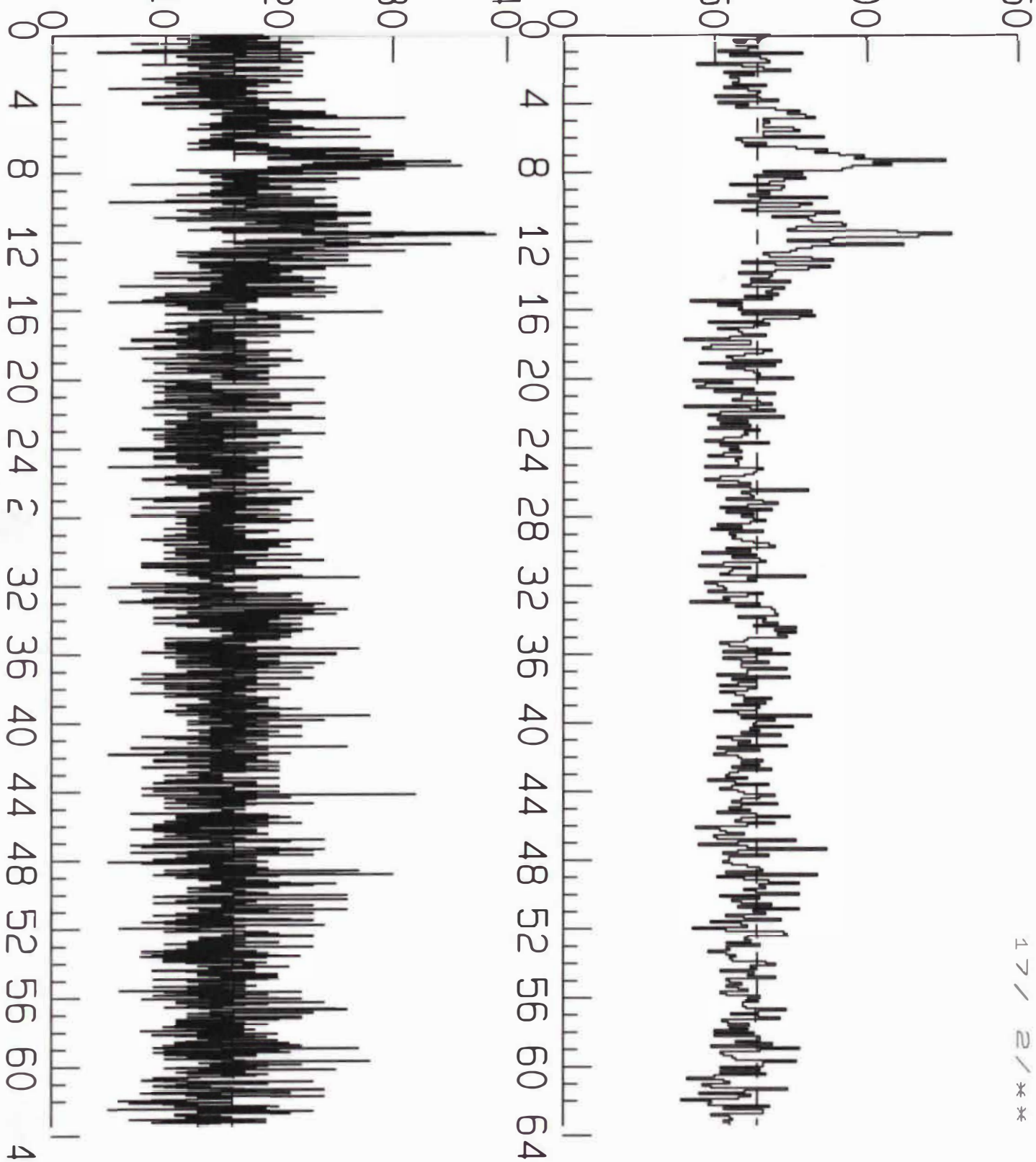
01/07/95

Ttrig=13026.778

21- 141 keV

COUNTS/0.031 S

COUNTS/0.125 S



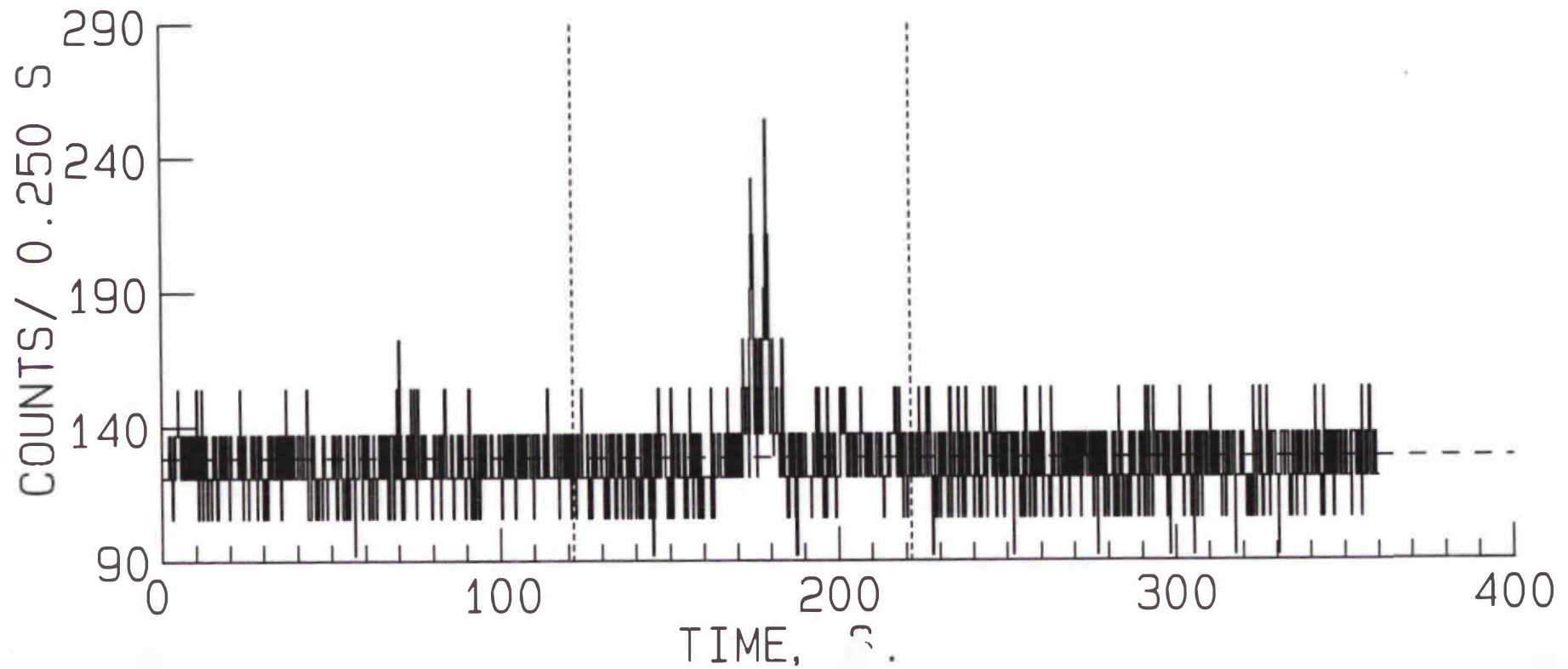
ULYSSES RT

17 / 2 / 98

1 / 7 / 95 12852.132 s

21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



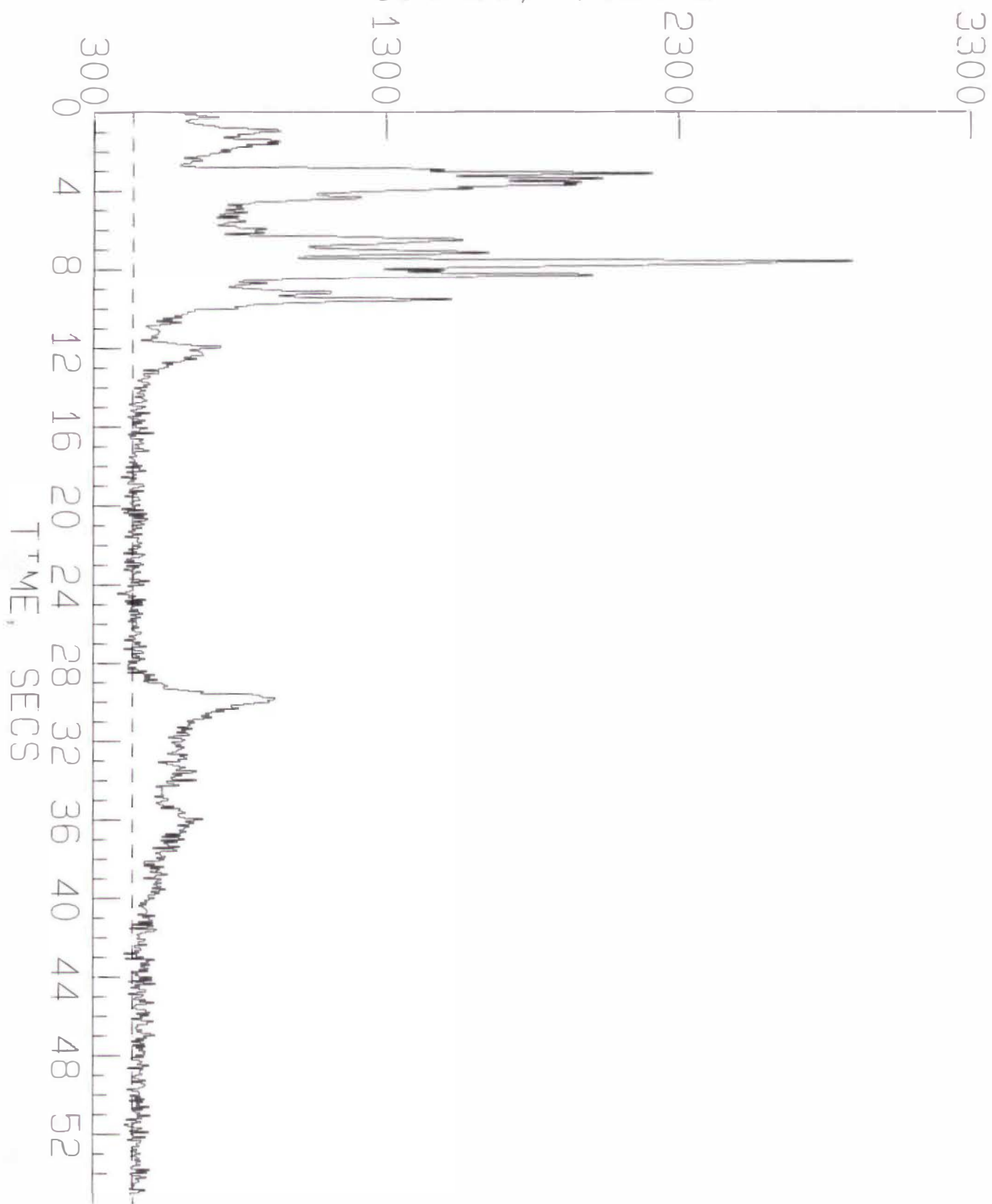
BATSE

01/07/95

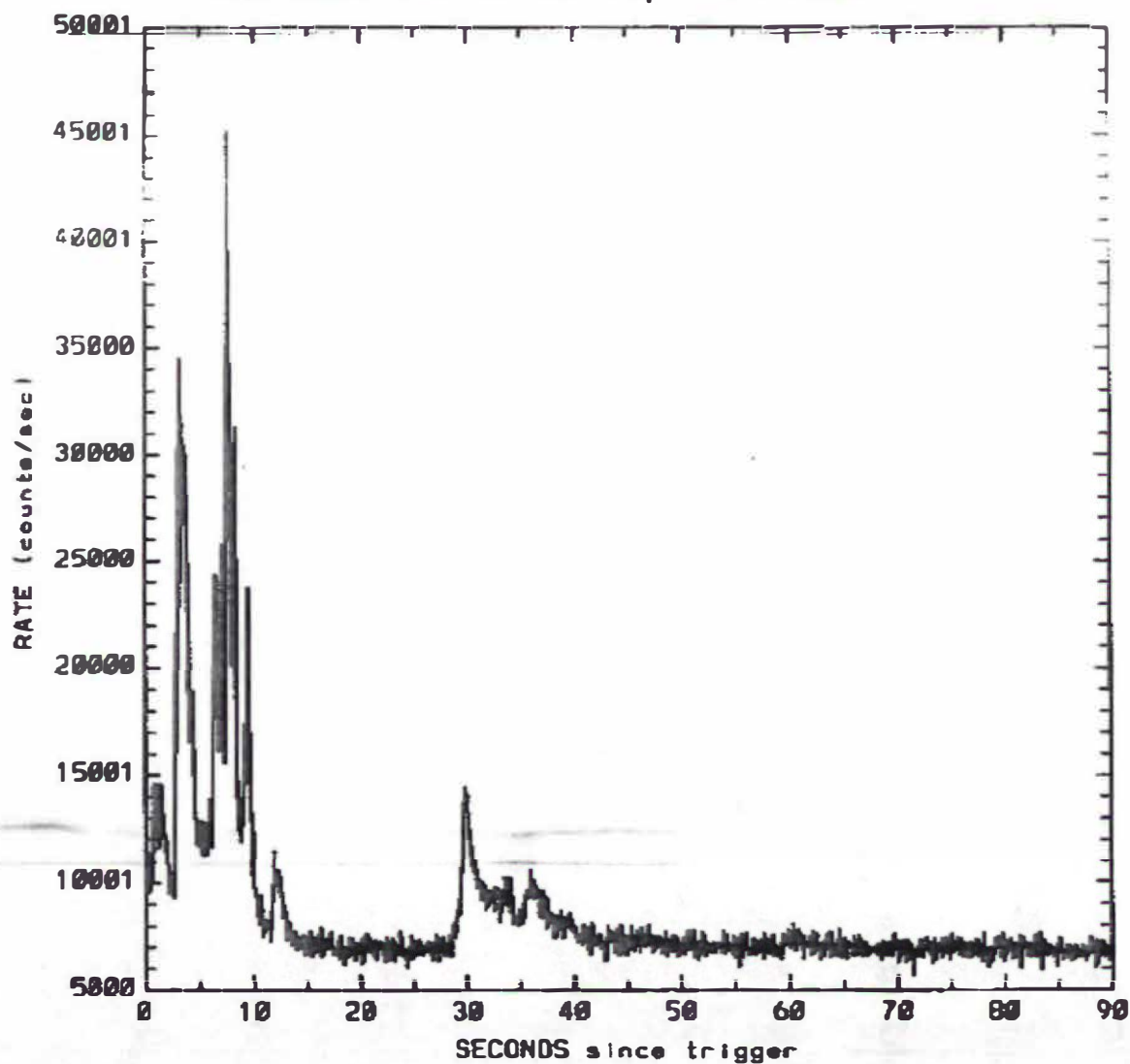
12758.194

25- 100 keV

COUNTS/ .064 S



MER Data for K. Hurley, No. 3657



18-JUL-1995 13:04.51

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

Trigger # 3657

Trigger Time
5569.112758 secBurst Data Type
MERDeadtime
Corrected: NBackground Data
Type: CONTMinimum Integ. Time
0.004 second(s)Detectors (7..8)
--54--Channels
(9..6)Quality Rank
00ISP1

From HENZE@SSLLES.MSFC.NASA.GOV Mon Jul 3 11:31 PDT 1995
Date: Mon, 3 Jul 1995 13:30:59 -0500 (CDT)
From: HENZE@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3658

BATSEARCH PROGRAM

Trigger

BATSE BURST # 3658
EVENT OF 1995 JUL 1 DAY OF YEAR=182
EVENT CROSSING TIME AT BATSE : 23737. S. OR 06:35:37.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 346.000 38.000
BATSE PEAK COUNTING RATE: 42000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 1/ 7/ 95 IS:
RA= 31.363 DEC= 72.637 DIST= 2.060 AU
BATSE-ULYSSES DISTANCE = 308175349. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=138.84 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -773.88 SECS.
CROSSING TIME AT ULYSSES IS 22963. S. OR 06:22:43 +/- 155.72 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 1/ 7/ 95 IS:
RA= 169.599 DEC= 5.299 DIST= 1.651 AU
MARS-BATSE DISTANCE = 246939616. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 43.43 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 598.20 SECS.
CROSSING TIME AT MARS IS 24335. S. OR 06:45:35 +/- 107.39 SECONDS

BATSE BURST TRIGGER

NO.: 03658

TIME: TJD=9899 SECONDS=23737

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=117.8 AZIMUTH=165.8 ERROR= DEGREES

COMMENTS:

SINGLE PULSE WITH STRUCTURE, DUR. ~15 S.
VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3658	950701	9899	23737	42000	346	+38	15

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 ----- LREAVX::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.

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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 17 '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? *N/A 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

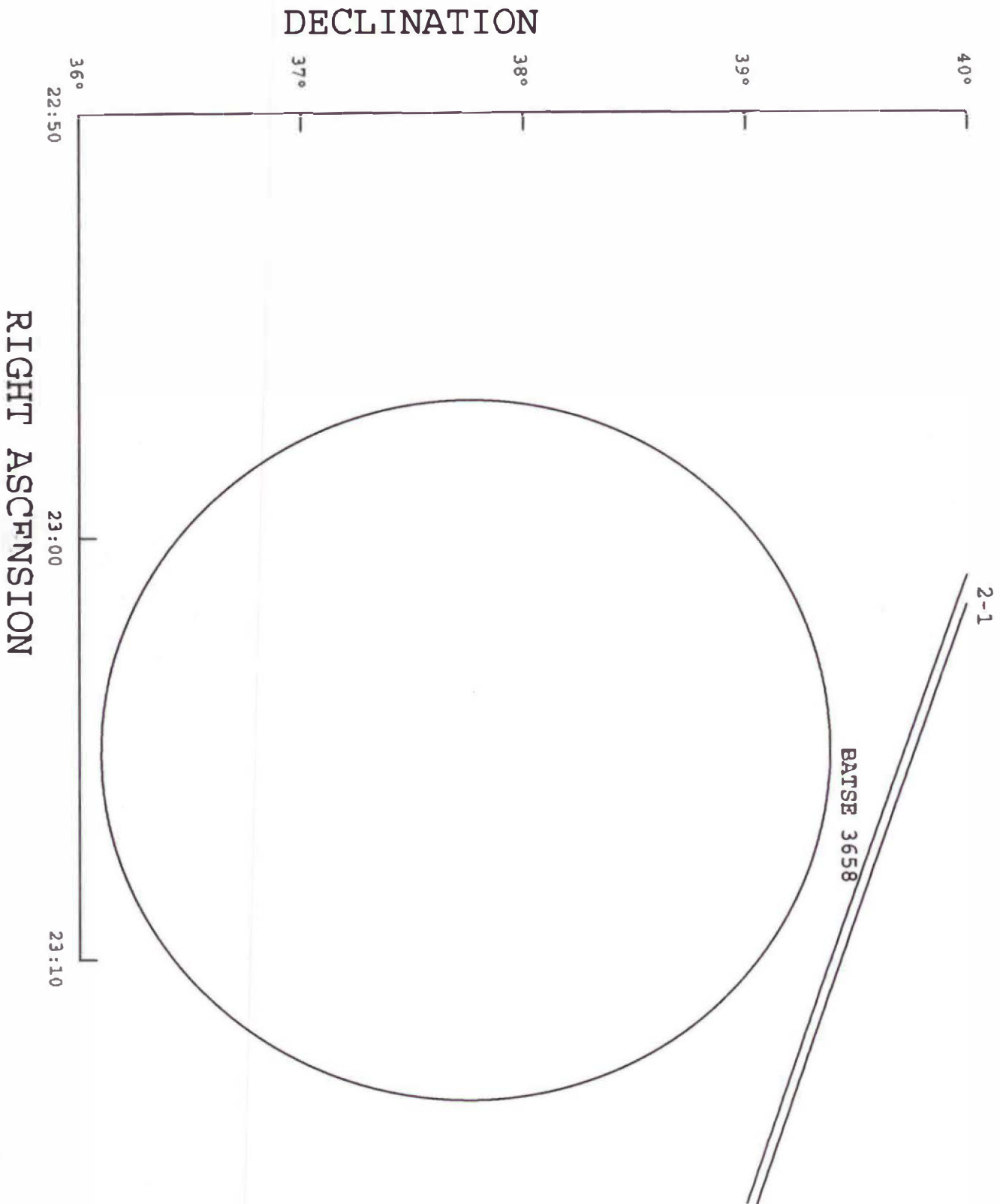
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF JUL 1, 1995 6:22

17/ 2/98



ULYSSES

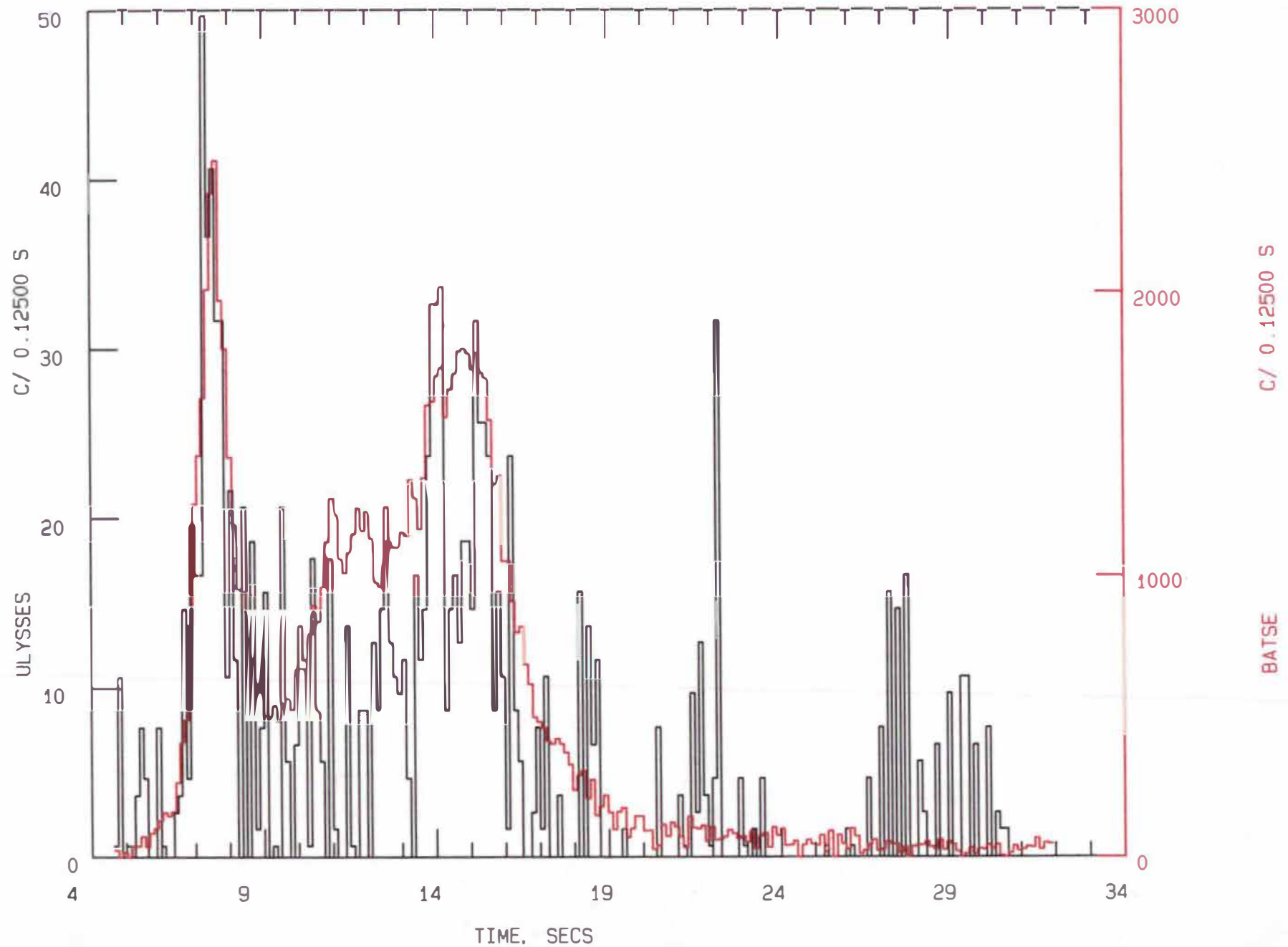
-BATSE

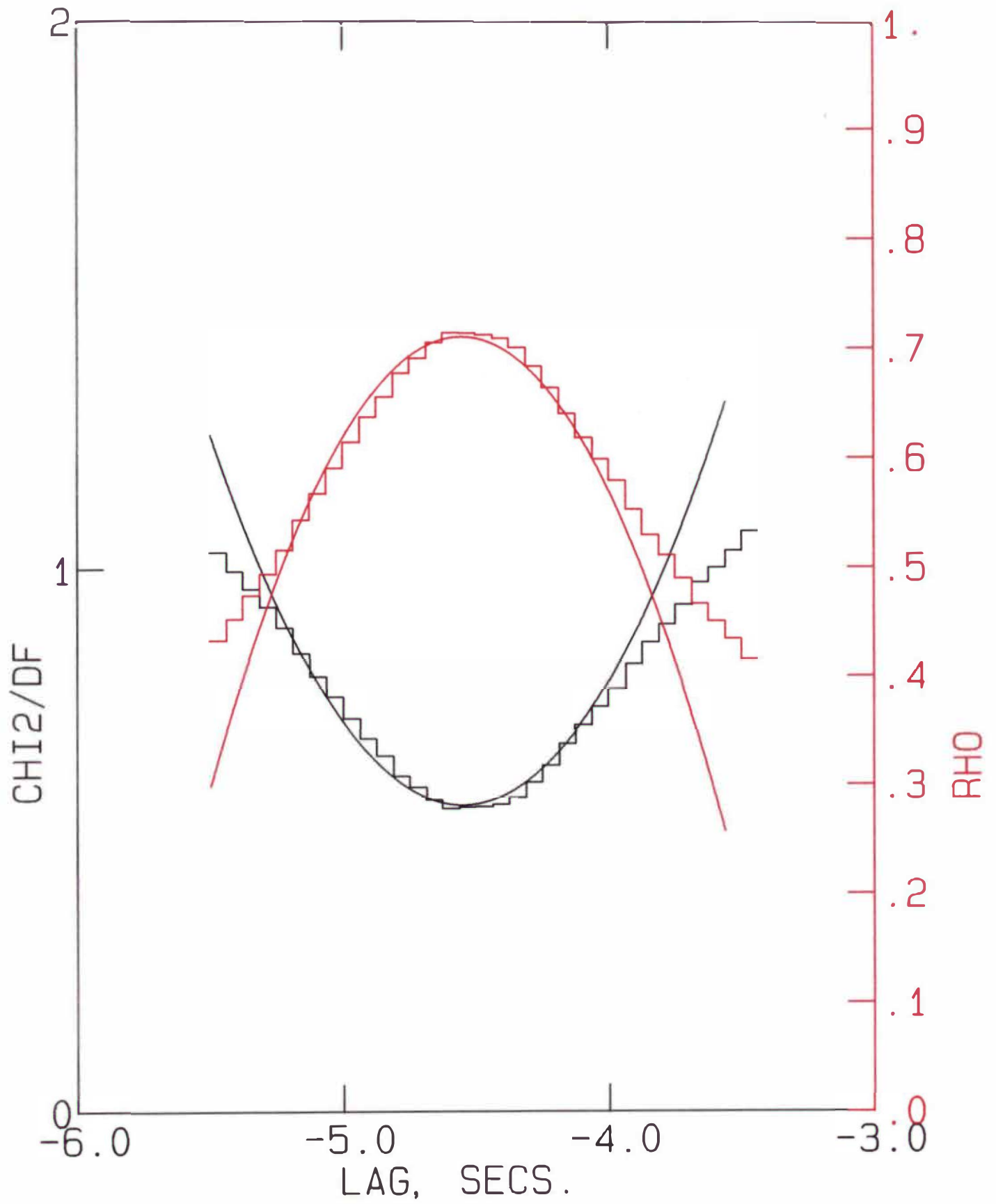
CORRELATION

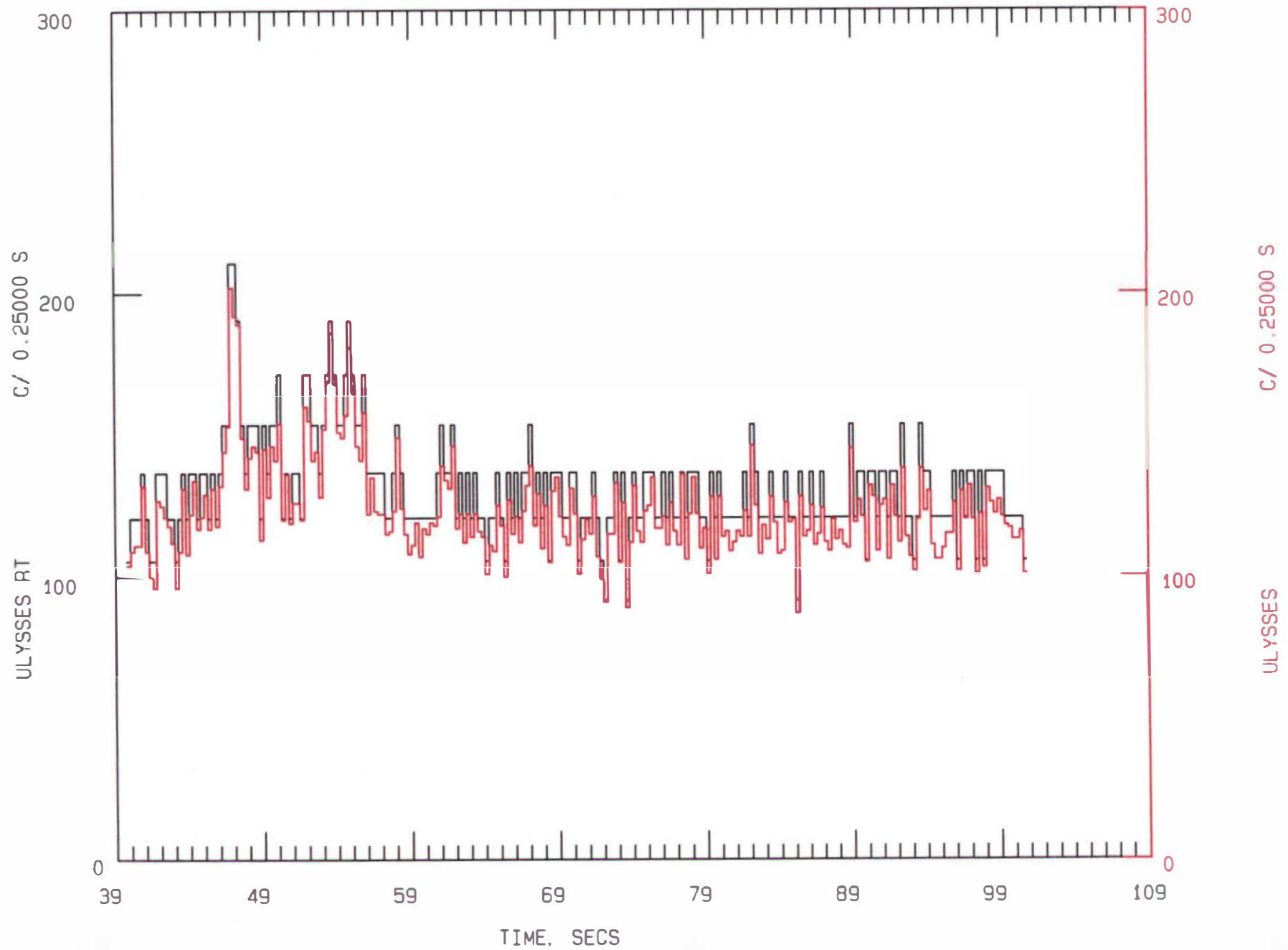
01/07/95

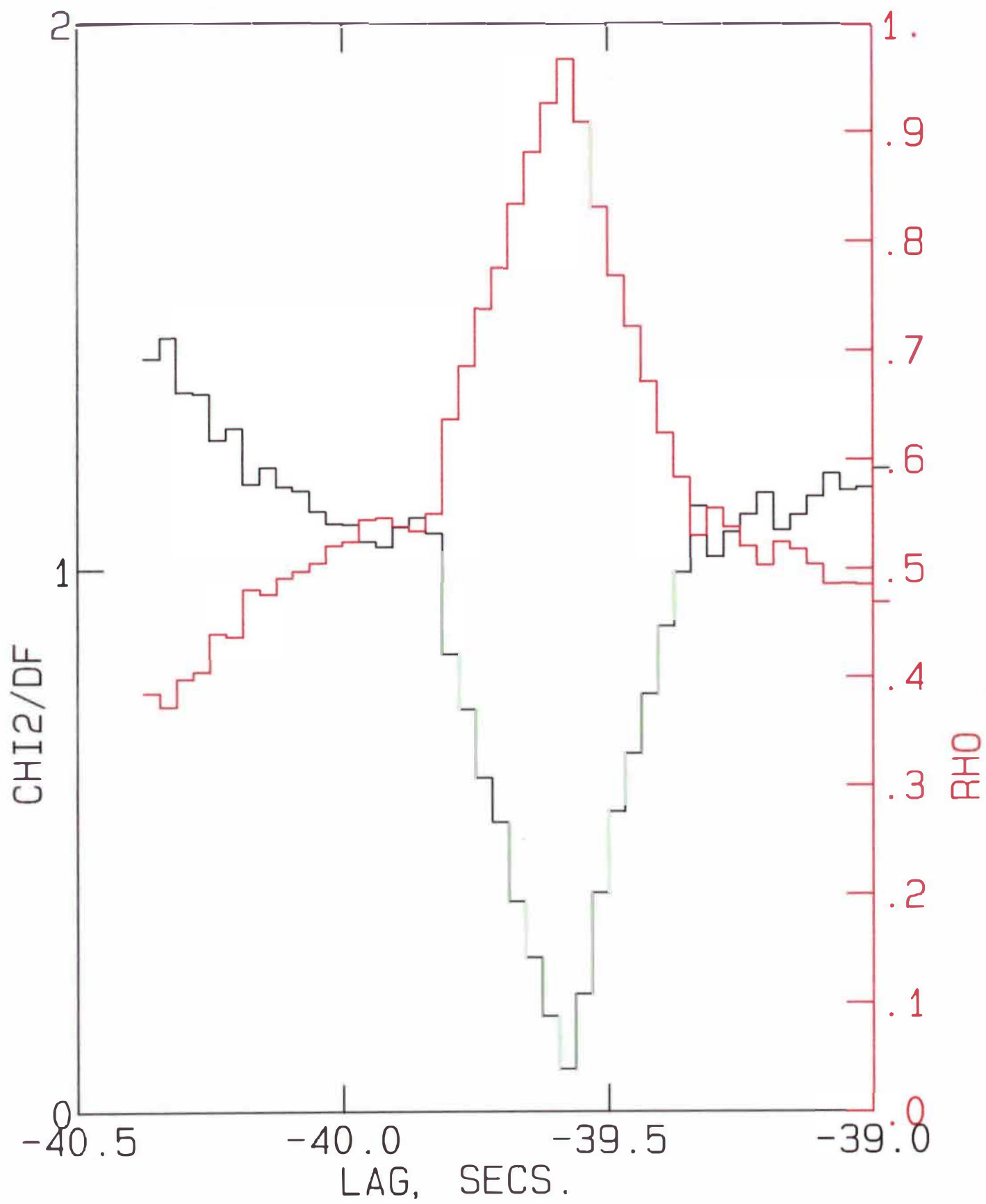
22949.105

17/ 2/98





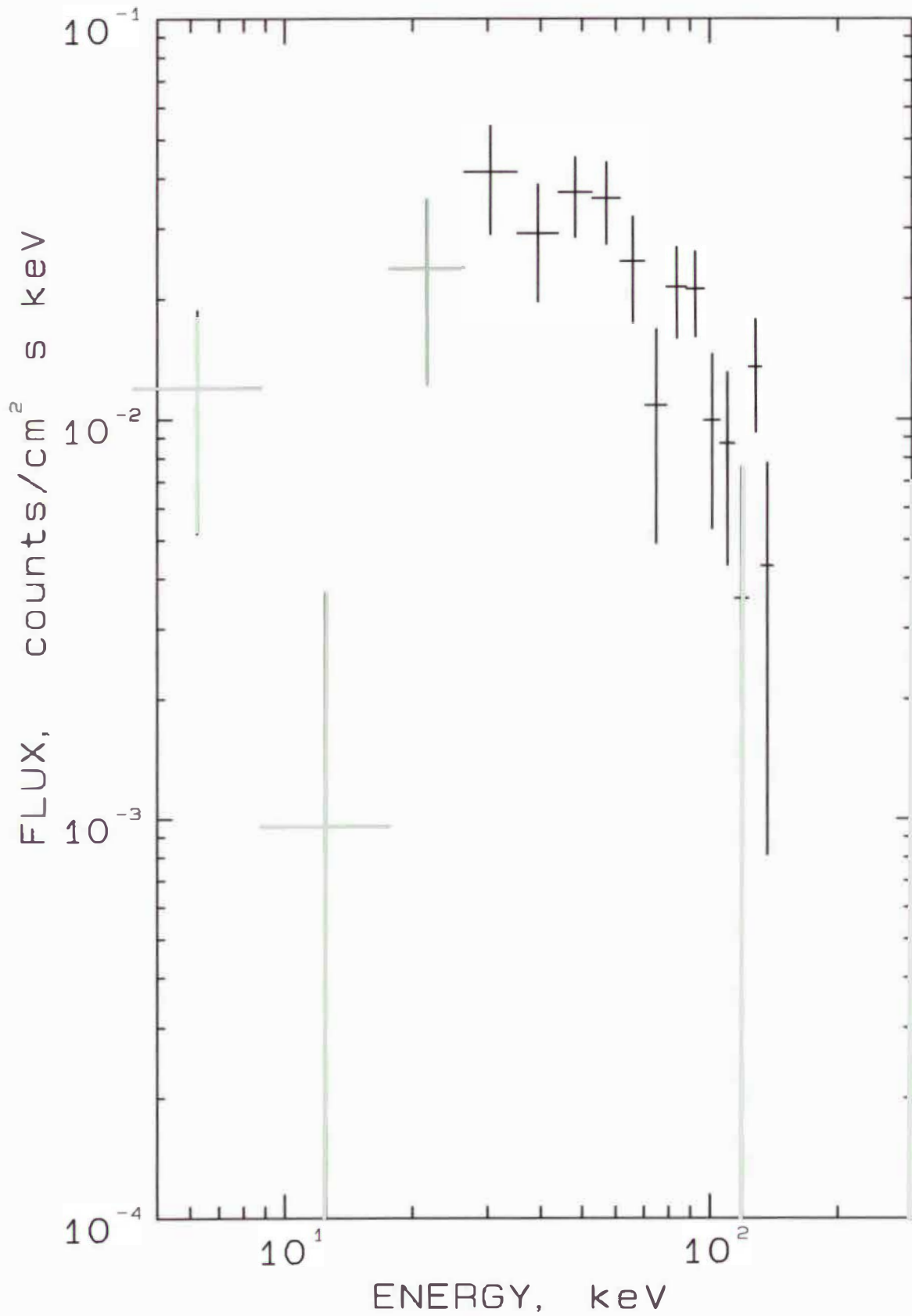




ULYSSES 01/07/95 22949.060

17/ 2/98

SPECTRUM INTEGRATED OVER 31.1 SECONDS. INTERVALS 2 TO 25



ULYSSES 01/07/95 22949.060 BURST SPECTRAL COUNT RATES

4- 17 keV

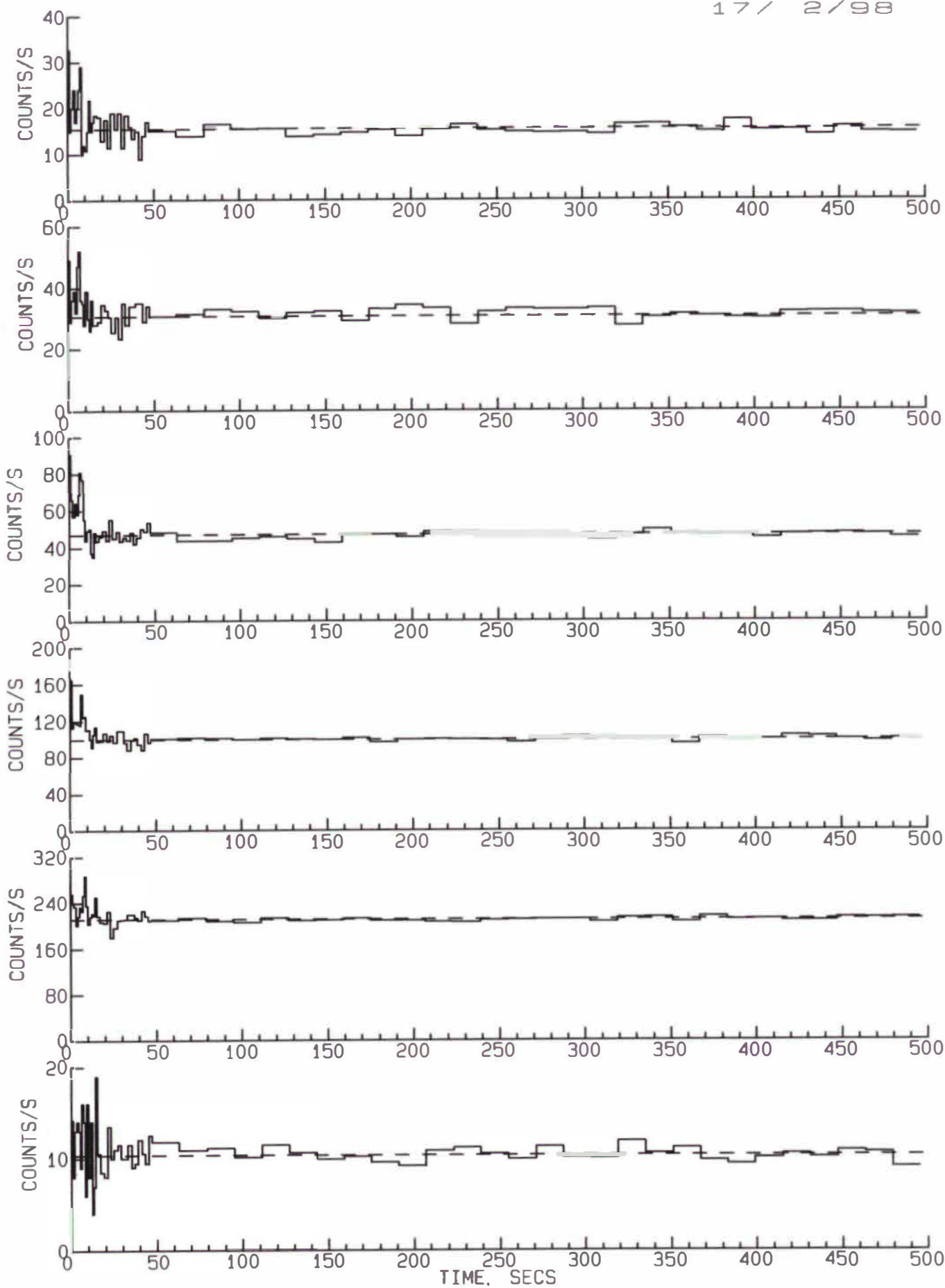
17- 44 keV

44- 70 keV

70- 97 keV

97-123 keV

123-141 keV



17 / 2 / 98

ULYSSES

01/07/95

Ttrig=22949.105

21- 141 keV

COUNTS/0.031 S

COUNTS/0.125 S

150

100

50

0

4

8

12

16

20

24

28

32

36

40

44

48

52

56

60

64

0

4

8

12

16

20

24

28

32

36

40

44

48

52

56

60

64

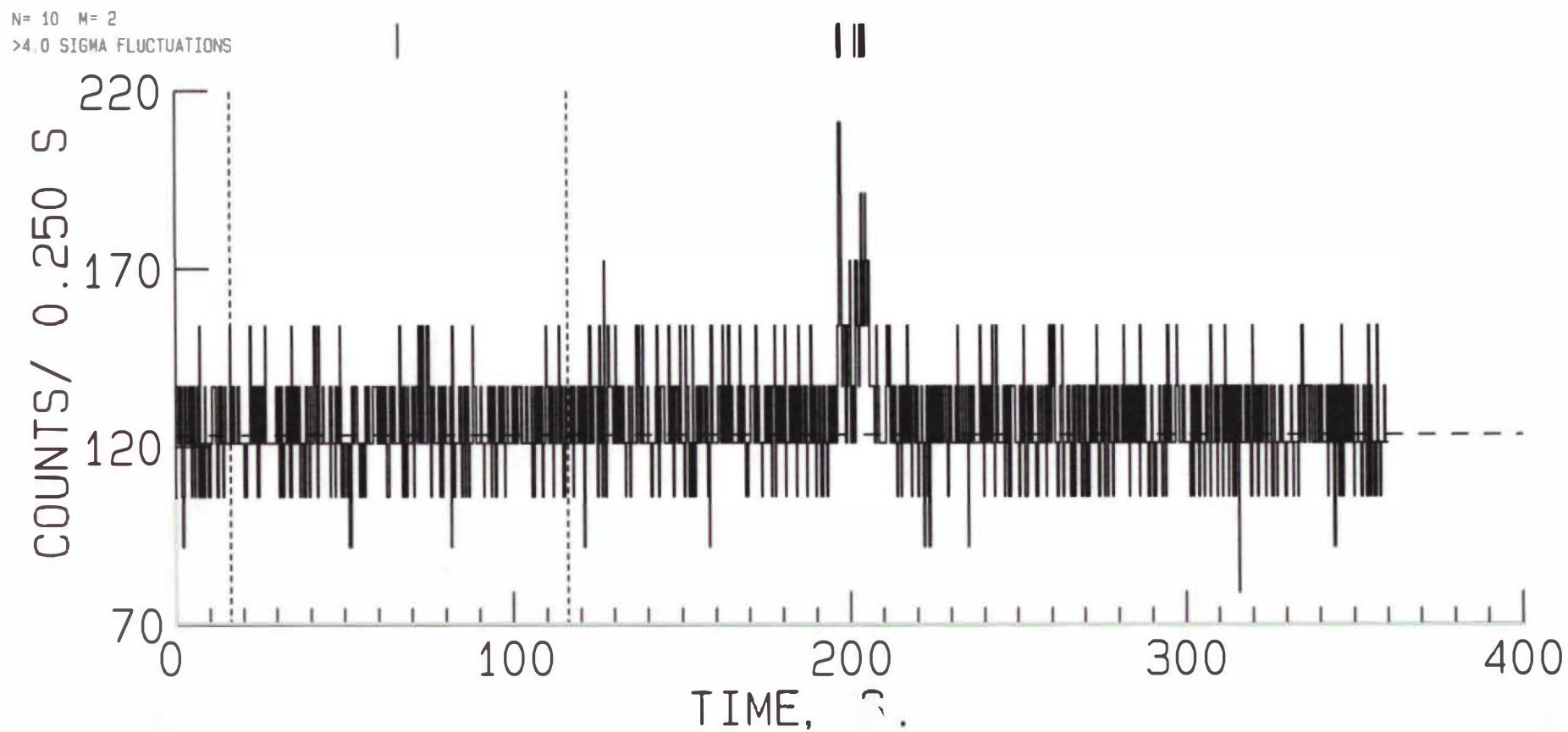
17 / 2 ***

ULYSSES RT

17 / 2 / 98

1 / 7 / 95 22752.075 s

21- 141 keV



BATSE

01/07/95

23737.458

25- 100 keV

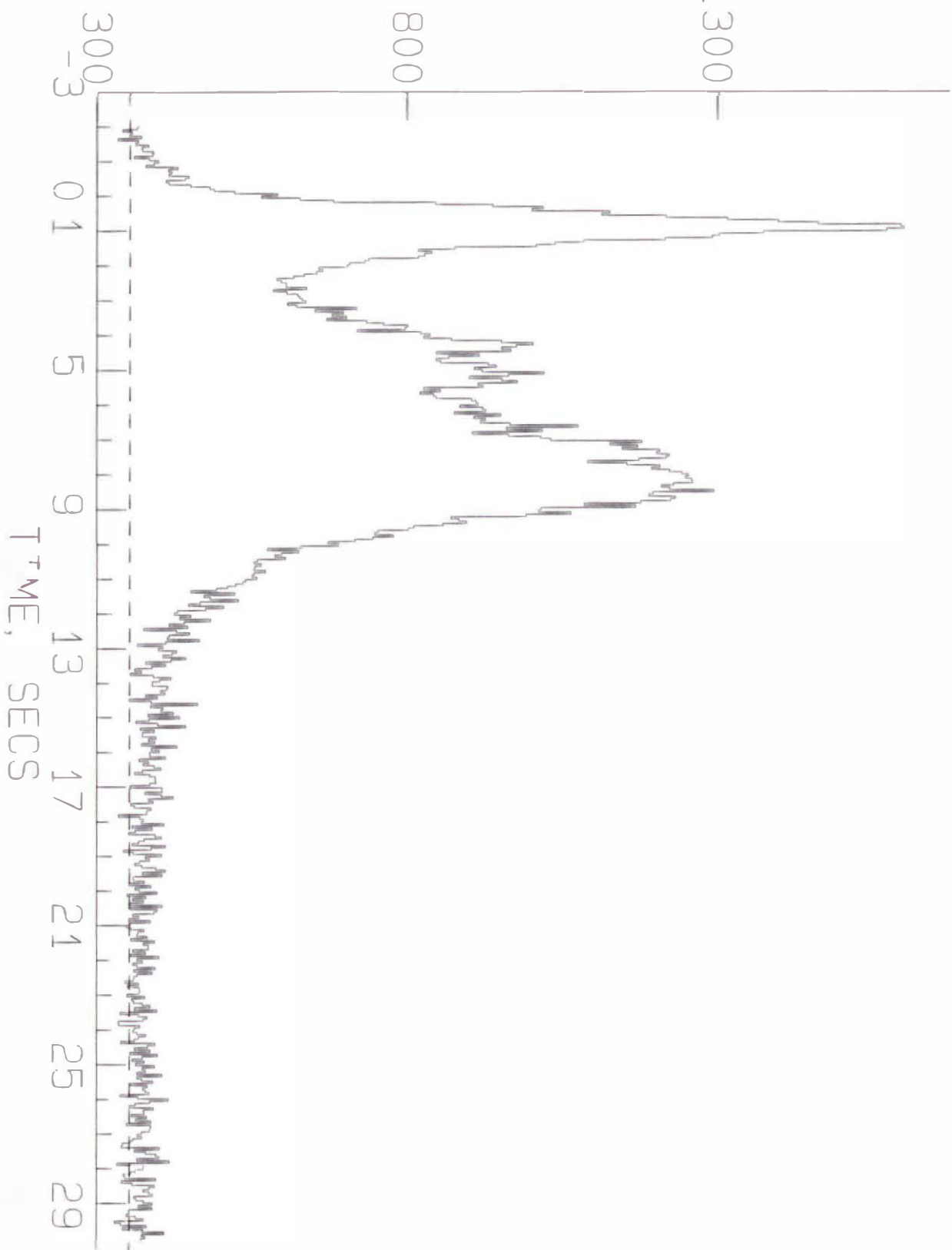
COUNTS/ .064 S

1800—

1300—

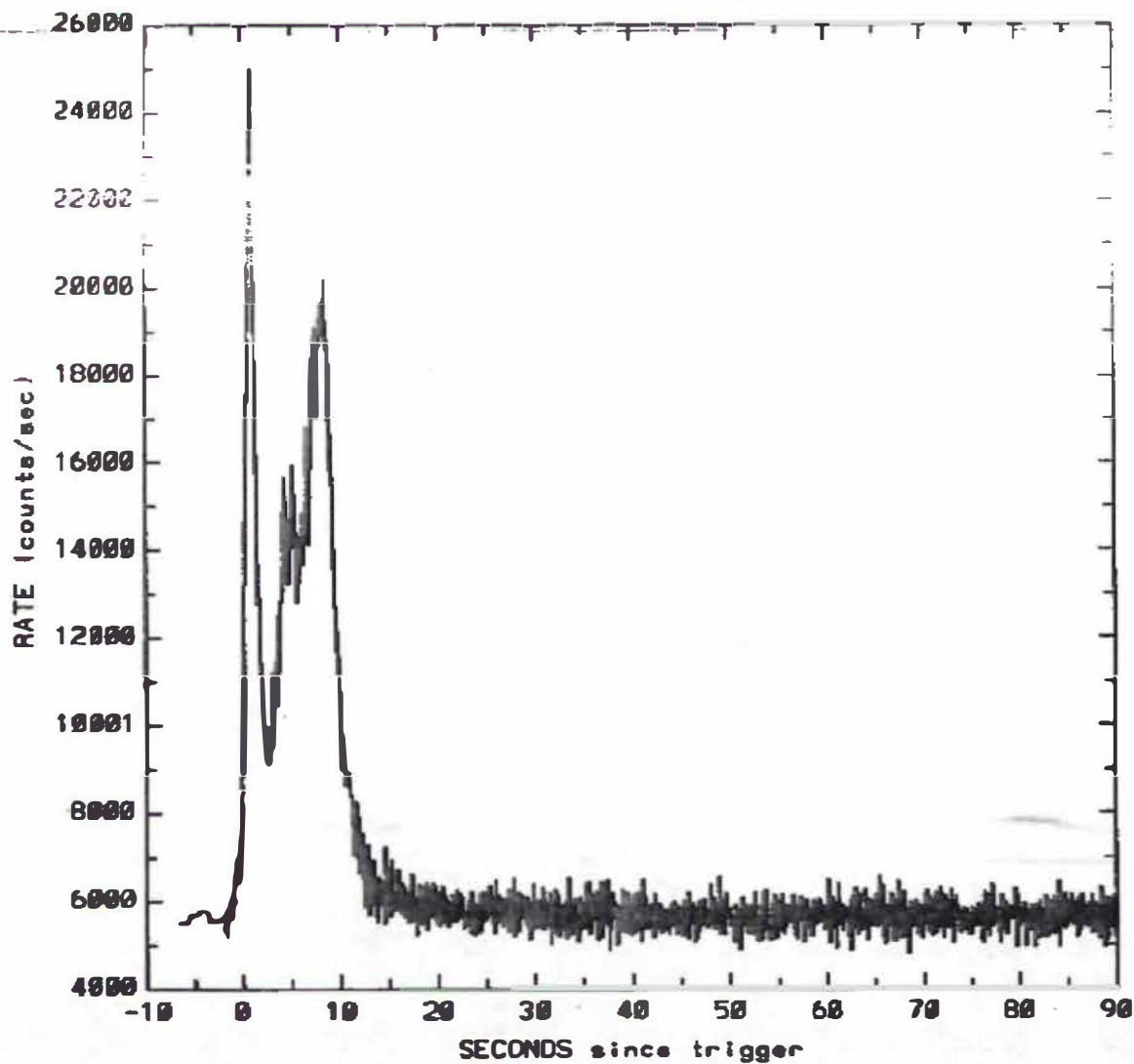
800—

300—



20 / 7 / 95

DISCSC Data for K. Hurley. No. 3658



18-JUL-1995 13:16:37

Created by MOPS 80
(Burst Display)
Version 12.25

Integer # 3658

Trigger Time:
4369 / 23737.45EBurst Data Type:
DISCSCDeadtime
Corrected: NBackground Data
Type: PWEB + DISCLAMinimum Integ. Time:
0.064 secondsDetectors (7..0):
7-5----Discriminators:
1 0 . 2 1Quality Mask:
BDISP1

From HENZE@fender.msfc.nasa.gov Sun Jul 2 15:06 PDT 1995
From: HENZE@fender.msfc.nasa.gov
Date: Sun, 2 Jul 1995 17:05:54 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03659

TIME: TJD=9899 SECONDS=75510

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HENZE@fender.msfc.nasa.gov Sun Jul 2 15:07 PDT 1995
From: HENZE@fender.msfc.nasa.gov
Date: Sun, 2 Jul 1995 17:07:41 -0500 (CDT)
To: burst@comp~~tel~~.unh.edu, grobad@vm~~prof~~s.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03660

TIME: TJD=9899 SECONDS=81570

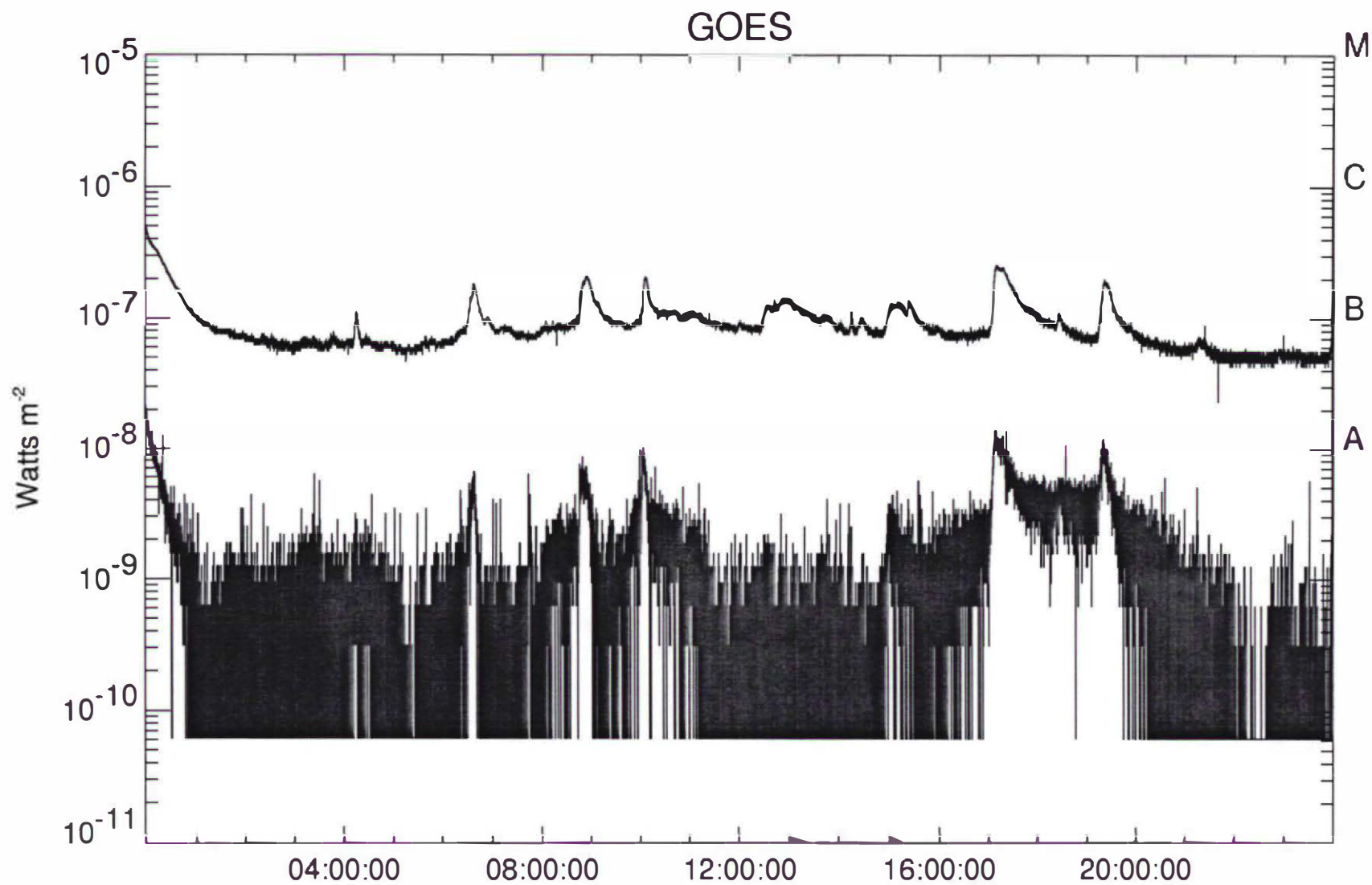
TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.



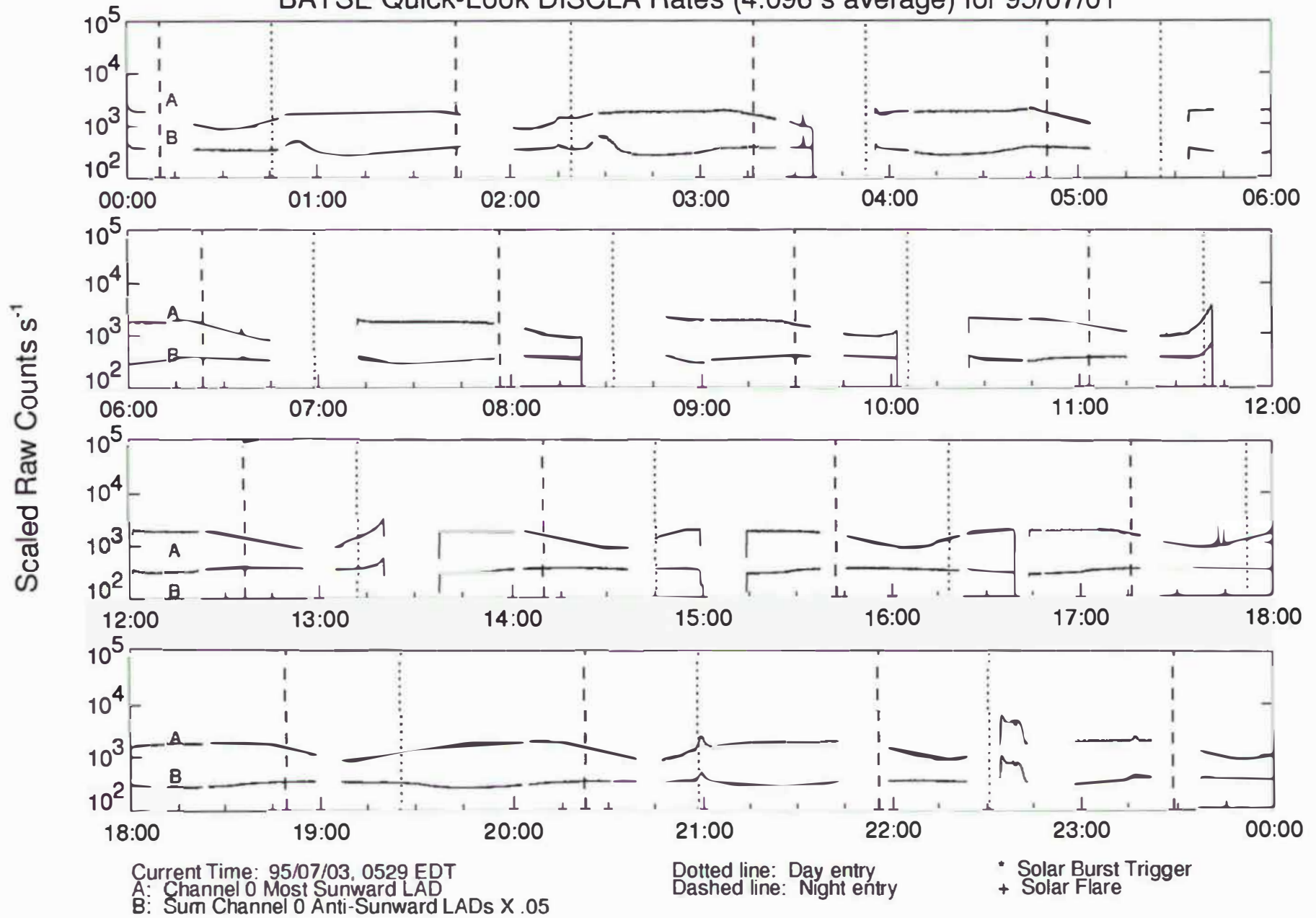
Data Start: 95/07/01, 0000:00

Plot created: 95/07/03, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

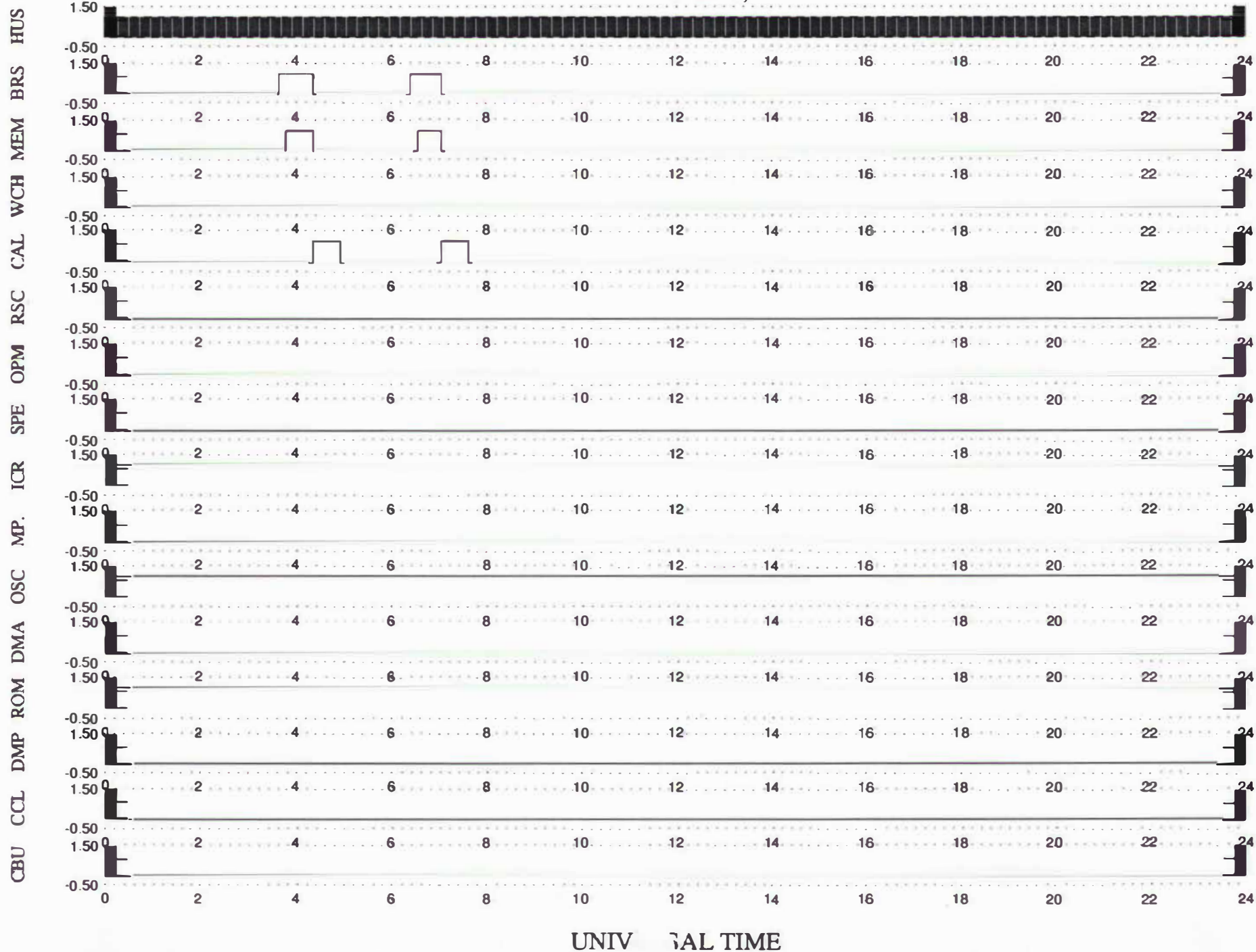
2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/01



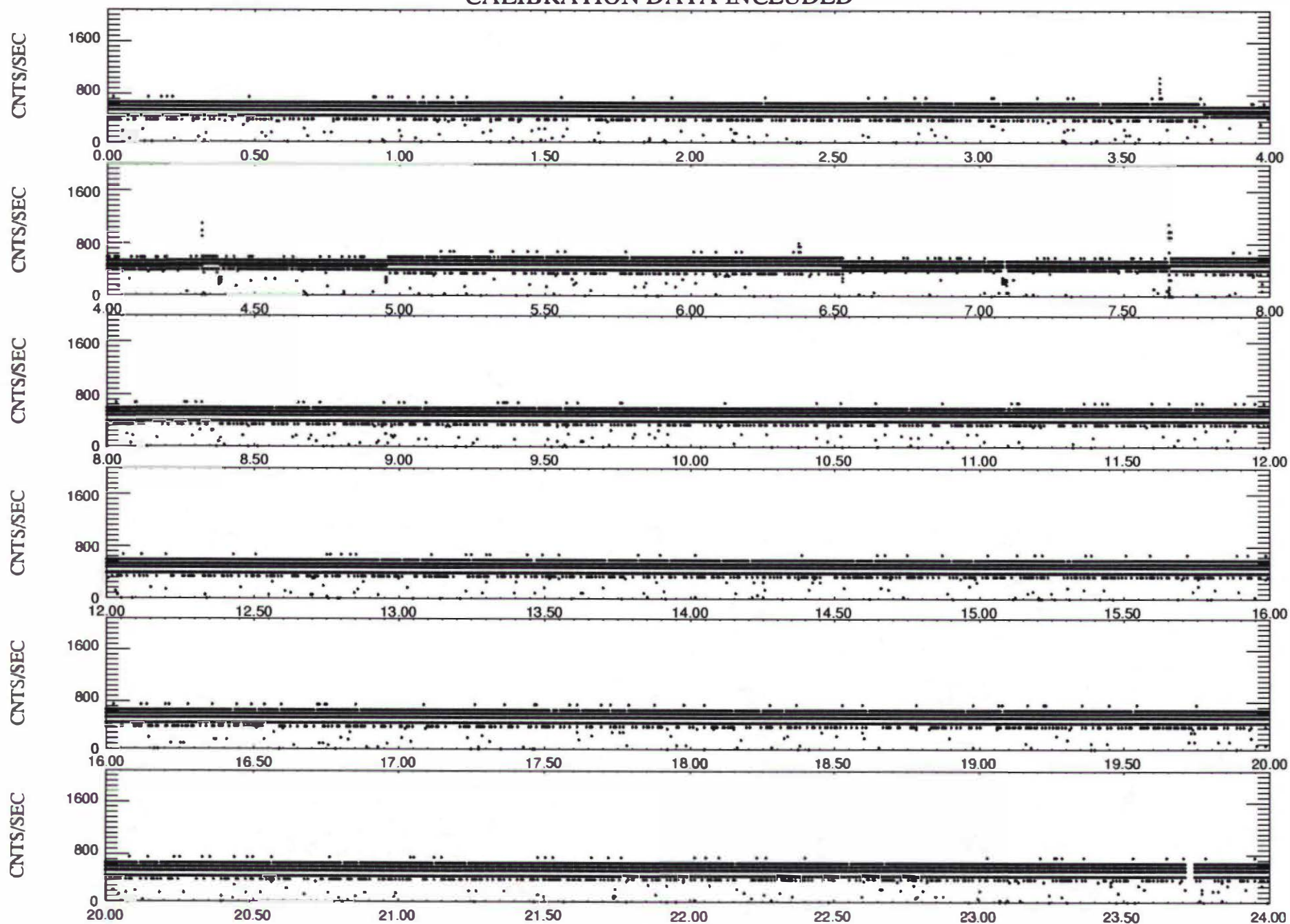
HUS MODES EDR day 182, year 1995 to day 182, year 1995
BURST NUMBER 3, 4

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 182, year 1995 to day 182, year 1995
CALIBRATION DATA INCLUDED

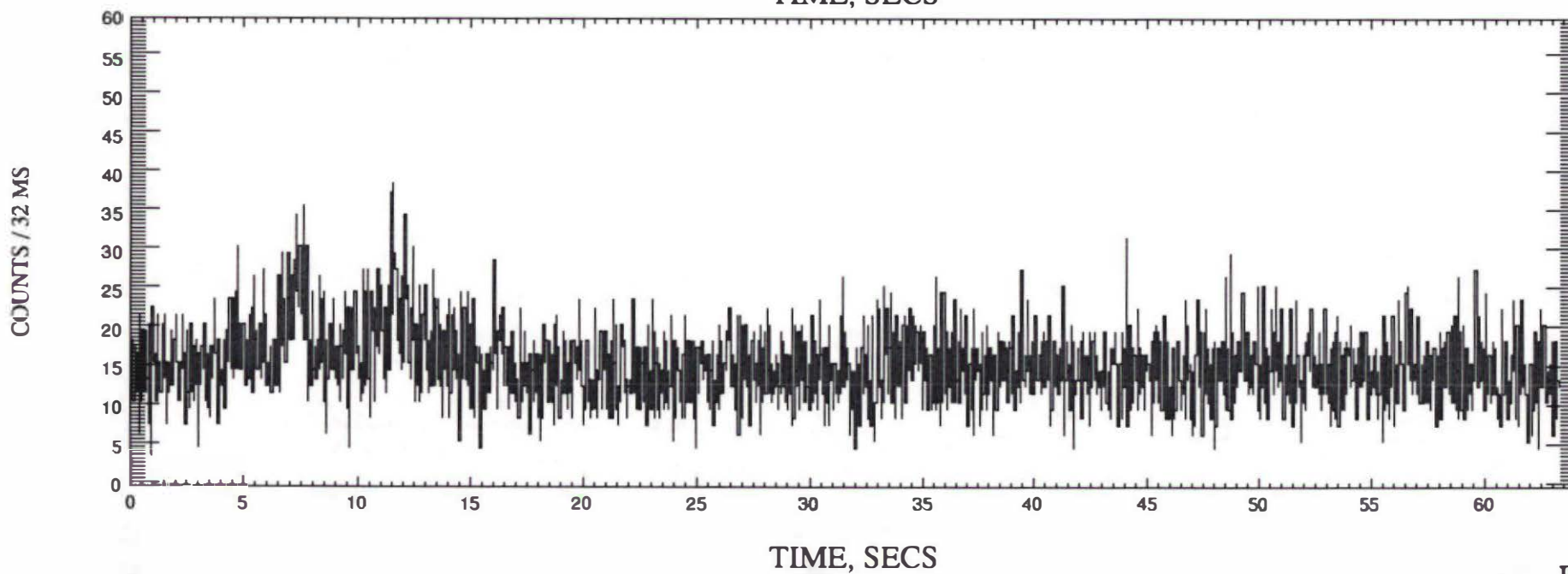
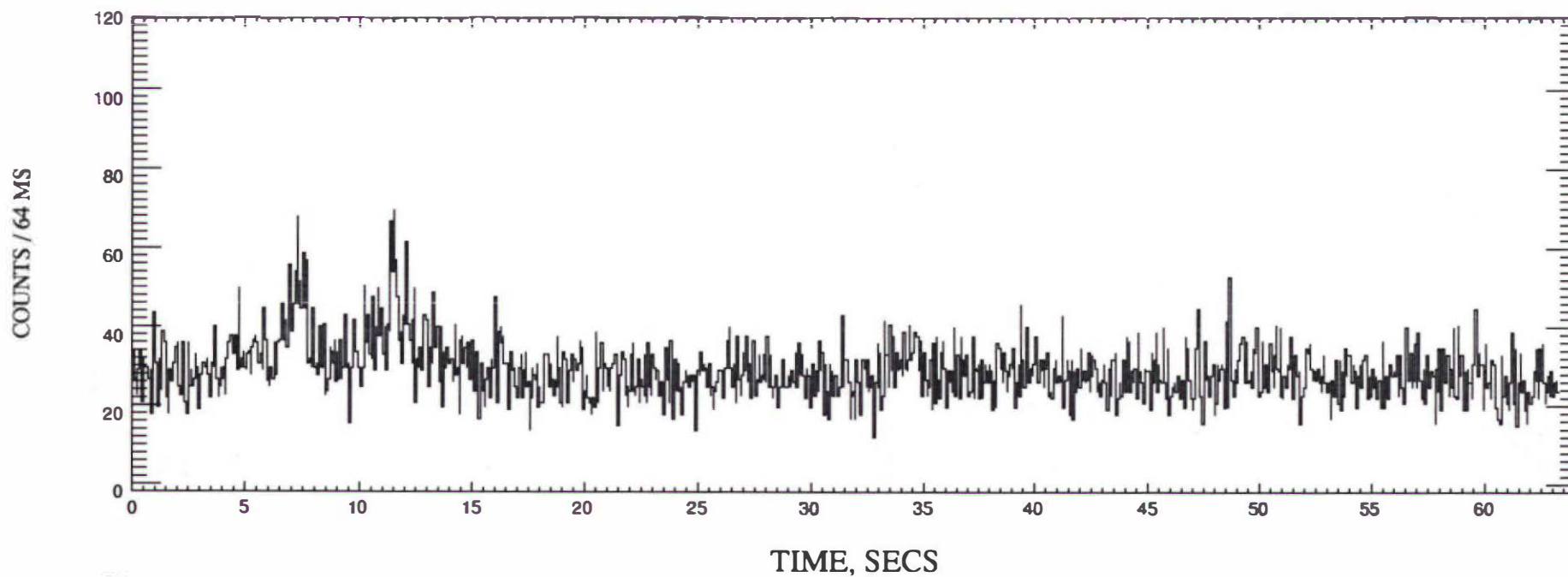
1/25/96



UNIV. CAL TIME

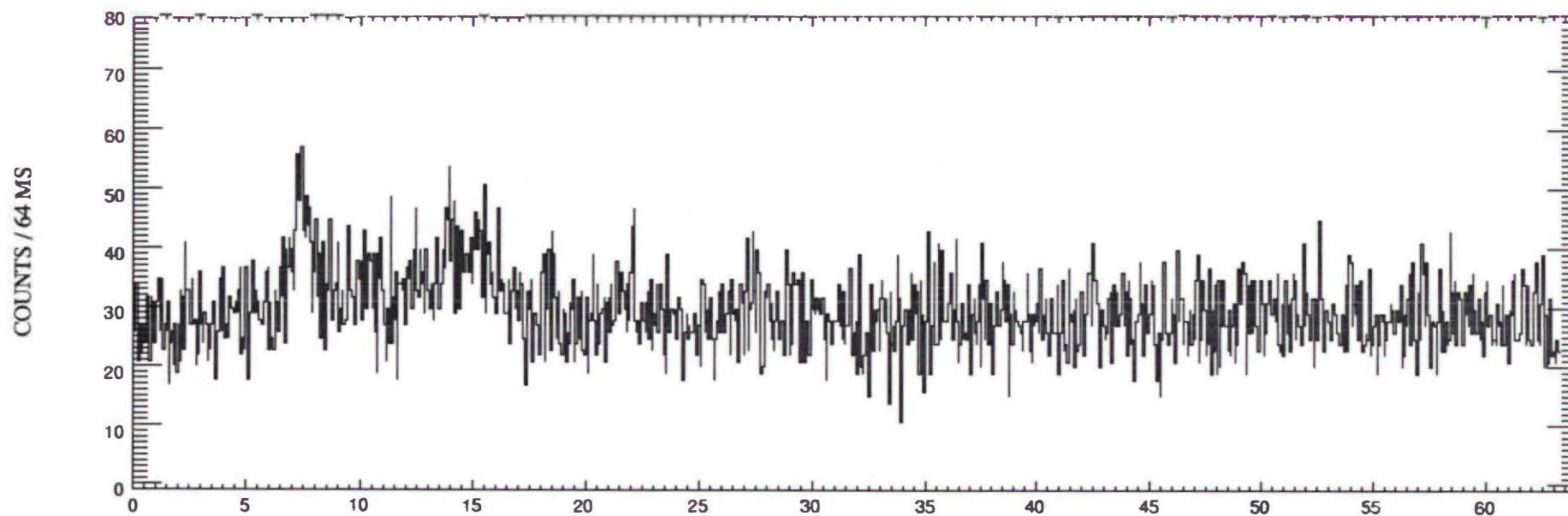
HUS 2A TRIGGERED DATA EDR day 182, year 1995
Burst Counter 3 at UT= 3.618537216187 h=13026.734 s 03:37:06.734

1/25/96

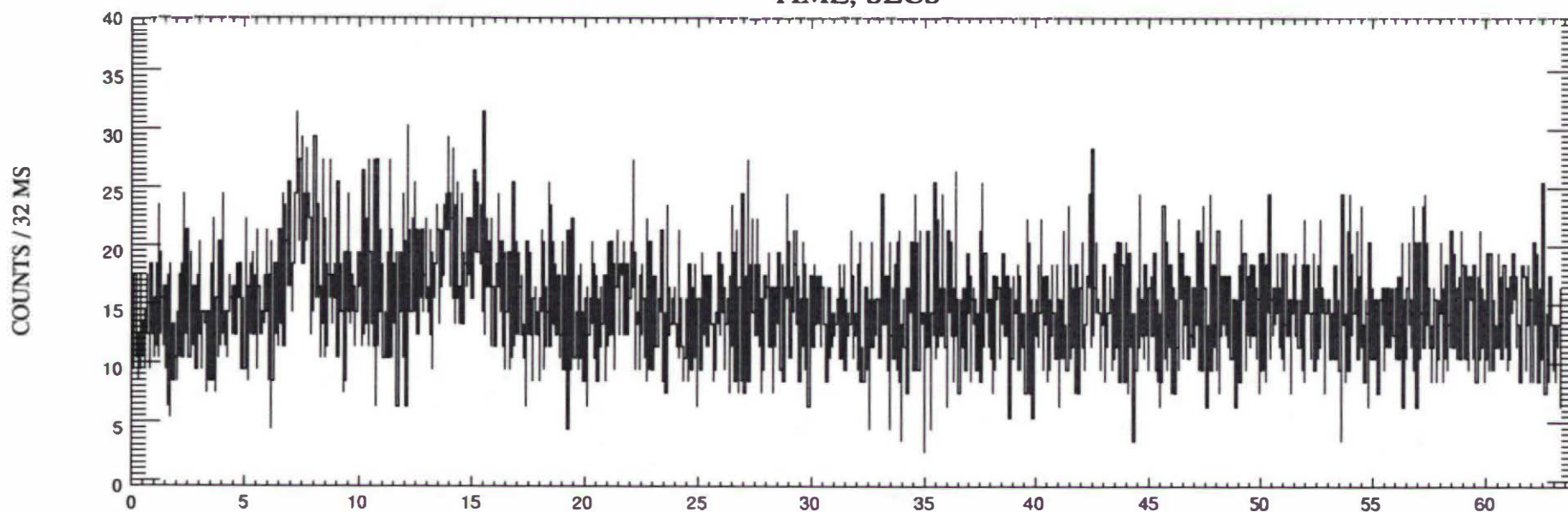


HUS 2A TRIGGERED DATA EDR day 182, year 1995
Burst Counter 4 at UT= 6.374738883972 h=22949.060 s 06:22:29.060

1/25/96

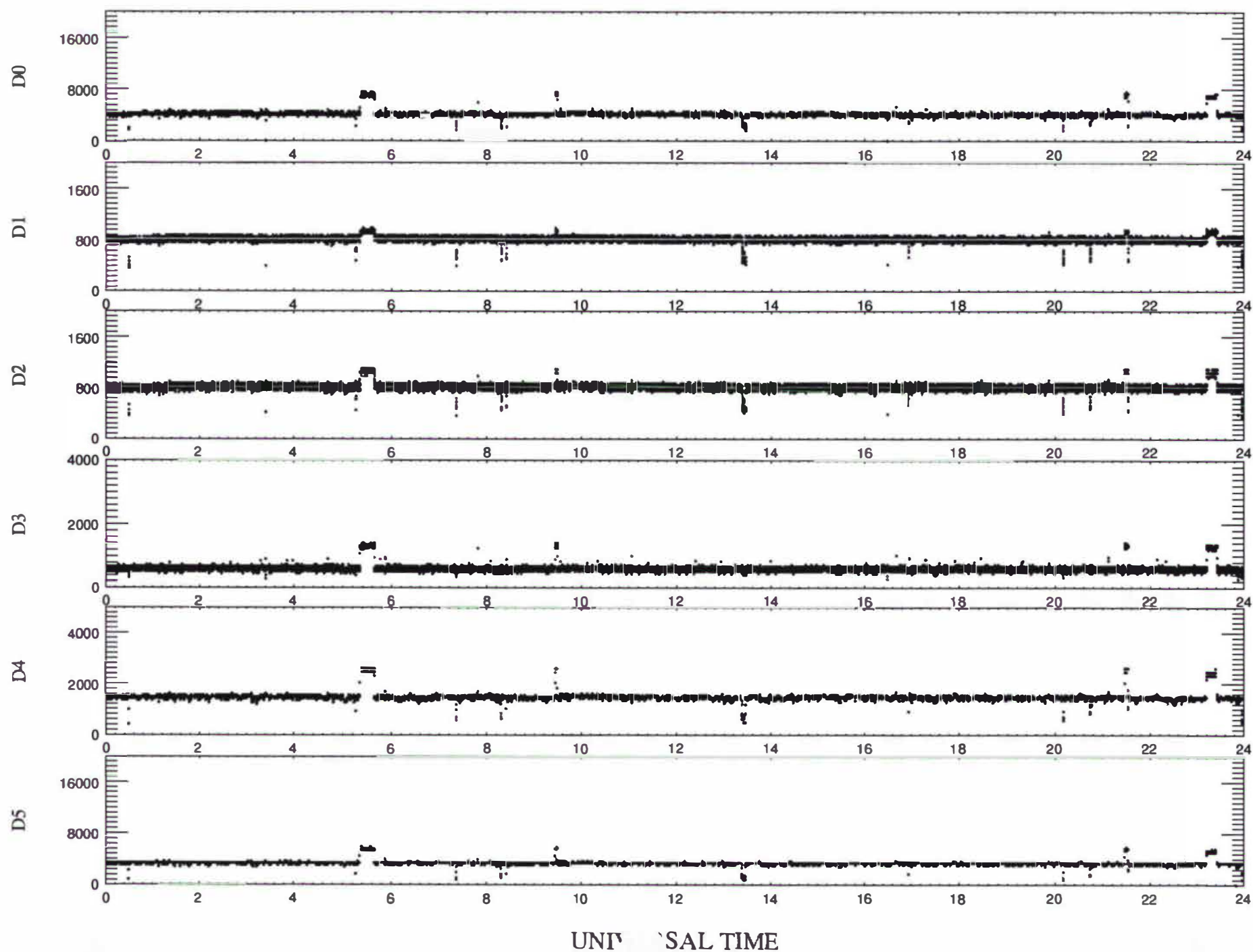


TIME, SECS



TIME, SECS

B# 2



From cline@lheavx.gsfc.nasa.gov Fri Feb 2 05:41 PST 1996

Date: Fri, 2 Feb 1996 05:41:51 -0800

Mime-Version: 1.0

To: Bonnard.Teegarden@cesr.cnes.fr, KHURLEY@sunspot.ssl.berkeley.edu,
palmer@lheamail.gsfc.nasa.gov, seifert@lheamail.gsfc.nasa.gov

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

Subject: For Your INFO

Dear Bonnard, Kevin, David, Helmut:

Here is Sergei Golenetskii's latest Konus burst list, for your information. Note that, including the non-triggered-mode 'BGR' events they confidently identify, there are over 300 events so far.

- TLC

DATE	Trigger T0 time (UT)	Sensor	KONUS-WIND		N(S1)/N(S2)		Duration		Trigger number
			Max counts per sec		G3	in G2	T<T0	T>T0	
			G1	G2					
941113	12 09 15	S1	145	85		2.5	115		BGR ✓
941114	02 02 40	S2	110	128	30	0.25	12		BGR ✓
941117	03 14 38.191	S2	406	550	74	0.17	40	5	2 ✓
941117	14 07 57	S2	150	140		<0.15	5		BGR ✓
941119	19 31 09.175	S2	370	703	160	0.23	7	20	4 ✓
941120	20 23 17.924	S1	215	328	30	>15	2	25	5 ✓
941121	17 25 00.945	S1	1652	1656	300	21	3	50	6 ✓
941125	22 04 30.156	S2	115	308	109	0.95	1.5	5	7 ✓
941126	00 20 46	S1	150	205	200	>14	18		BGR ✓
941126	12 22 37.952	S1	860	1430	330	4.2	40	45	8 ✓
941126	16 54 20	S1	55	75		>10	26		BGR ✓
941126	19 56 49.732	S1	290	390	211	6.7	20	26	9
941127	14 30 25.680	S2	200	400	95	0.17	8	7	10 ✓
941127	15 39 10	S1	210	57		2.7	260		BGR ✓
941128	15 37 00	S1	75	90	32	>15	55		BGR ✓
941205	23 33 40.074	S2	370	460	188	0.06	6	30	11 ✓
941207	22 10 32	S2	265	175		<0.2	7		BGR ✓
941210	03 10 52.523	S2	900	2350	1385	0.12	1	15	14 ✓
941214	17 03 51	S1	40	45	29	>6	12		BGR ✓
941214	05 38 45.226	S1	3479	1266	14	1.0	12	240	18 Sol
941221	07 44 08	S2	55	115	30	0.8	20		BGR ✓
941221	22 14 35.215	S1	260	496	165	1.5	55	11	19 ✓
941222	05 36 00.243	S2	334	1360	1066	0.36	7	105	20 ✓
941228	07 39 45.915	S1	300	637	519	4.4	5	90	28
941228	16 55 23	S2	40	36	23	0.25	25		BGR ✓
941229	12 58 05	S1	46	108	31	1.8	15		BGR ✓
941229	22 51 08.781	S2	396	381	140	0.09	7	25	29 ✓
941230	20 52 53	S1	74	117	52	8.4	158		BGR ✓
941230	23 43 44	S2	55	70	16	<0.2	4.5		BGR ✓
950104	07 18 39.613	S2	258	550	219	0.75	2.8	20	31 ✓
950104	09 00 58	S2	140	143	40	<0.1	25		BGR ✓
950110	06 02 15	S2	332	180		<0.1	3600		BGR ✓
950110	13 37 57.084	S2	234	422	213	0.05	38	100	32 ✓
950111	04 49 12.241	S1	586	620	100	>19	92	24	33 ✓
950111	12 18 49.196	S1	225	435	164	1.85	26	50	34 ✓
950112	07 45 37.120	S2	1305	1800	336	0.04	2.5	44	35 ✓
950113	05 59 13	S1	283	180	26	>10	52		BGR ✓
950113	17 38 32	S2	85	162	35	<0.06	75		BGR ✓
950114	01 00 38	S1	46	110		1.6	6		BGR ✓
950114	04 03 01	S2	23	76		0.5	70		BGR ✓
950114	07 30 30.766	S2	205	406	60	<0.05	1	100	36 ✓
950114	13 10 34.865	S1	1320	2828	516	3.1	1	10	37 ✓
950115	02 49 32	S2	40	47	34	<0.15	24		BGR ✓
950117	01 36 00	S2	56	82	42	0.2	108		BGR ✓
950118	12 22 54	S2	57	105	17	<0.1	35		BGR ✓
950125	14 51 52.253	S1	380	600	140	8.2	3.8	11	39

950416	13	27	00	S2	80	130	10	<0.2	20			BGR ✓
950418	23	16	33.572	S1	180	530	220	2.7	0.5	15		81 ✓
950419	02	23	48.860	S1	600	3260	2440	1.5	0.2	1.1		82 ✓
950419	11	23	32	S2	70	50	10	<0.15	90			BGR ✓
950419	13	11	40	S1	100	110	30	>15	130			BGR
950419	23	21	17.472	S2	200	400	200	0.35	1	1.5		83
950422	04	05	44.359	S1	1440	400		0.9	15	40		84 Sol ✓
950422	11	45	22.690	S2	12200	1680	60	0.9	30	300		85 Sol ✓
950425	00	15	23.718	S1	1200	2780	1820	2.4	0.5	65		86 ✓
950425	18	12	59.017	S2	230	330		0.97	3	4		87
950427	14	39	12	S1	20	60	40	>8	20			BGR
950430	15	03	44	S2	30	100	20	0.5	6			BGR ✓
950430	18	30	00	S2	120	140	20	0.1	9			BGR
950501	03	25	04	S2	120	130	25	<0.1	9			BGR ✓
950503	06	54	25	S2	60	80	15	0.3	60			BGR
950503	18	36	11.838	S1	1140	4200	3140	1.9	0.2	115		88 ✓
950505	14	52	57	S2	260	150	30	<0.1	9			BGR
950505	14	58	59.053	S1	540	420	45	12	12	30		89
950506	23	25	10	S2	280	65		<0.15	15			BGR
950507	01	59	22	S2	25	90	30	<0.1	12			BGR
950509	12	49	42	S2	75	150	30	0.1	18			BGR ✓
950510	07	48	03.509	S1	640	630	160	>15	2	15		90 ✓
950510	21	34	45	S2	30	60	30	<0.1	25			BGR
950512	00	16	43.891	S1	2770	6300	1830	2.8	0.1	56		91 ✓
950513	07	24	52.760	S2	1800	550		0.85	9	26		92 Sol
950513	22	41	46.917	S1	720	1360	520	10	1	30		93 ✓
950514	20	46	14	S1	30	60	15	2	30			BGR
950515	00	54	48.326	S1	360	630	70	2.3	1	8		94
950515	06	24	37.820	S1	350	400		2.3	2	50		95
950520	23	07	51.404	S1	600	1560	1310	5	0.08	0.25		96
950521	06	59	21.588	S1	200	280	50	3.7	8	50		97 ✓
950522	06	38	18.964	S1	290	410	320	18	2.5	7		98 ✓
950522	10	58	44.307	S2	190	440	180	1.3	2	90		99 ✓
950522	23	41	20.844	S1	100	420	280	1.1	1	150		100 ✓
950523	05	39	19	S2	70	110	15	0.4	60			BGR ✓
950523	08	41	42.284	S1	1290	2770	710	18	0.2	3		101 ✓
950524	04	08	22.670	S2	110	300	140	0.95	2	1		102 ✓
950526	04	36	53.640	S2	390	530	360	0.05	1	62		103
950601	09	29	42	S2	270	60	20	<0.15	62			BGR
950602	07	06	32.777	S1	140	310	180	>10	1	180		104 ✓
950603	05	54	17.810	S1	180	300	170	10	2	12		105
950606	19	59	24	S2	80	40		<0.15	26			BGR
950608	22	36	37.603	S1	350	450	150	>25	140	12		106 ✓
950609	04	54	19	S1	50	100	40	2	6			BGR
950610	01	54	09.095	S1	240	520	160	5	6	17		107 ✓
950610	05	18	16.034	S2	1060	3250	1300		0.03	0.07		108
950611	05	52	12	S1	100	110	40	7	200			BGR ✓
950614	00	12	47	S1	110	50		5	18			BGR
950615	14	37	32	S2	50	40		<0.1	25			BGR
950616	12	49	37	S2	90	100	25	<0.06	180			BGR
950622	19	51	10	S2	70	100	50	0.3	8			BGR
950624	03	29	58	S2	40	40		<0.1	90			BGR ✓
950624	23	22	04.417	S2	150	540	130	<0.5	41	100		111 ✓
950625	02	41	29.448	S2	200	240	30	<0.1	25	4		112
950625	04	03	46.011	S2	120	360	120	0.9	3	5		113 ✓
950625	05	19	36.832	S1	290	630	140	1.6	1	6		114
950626	13	37	42	S2	160	120	20	<0.1	60			BGR
950627	15	46	00	S1	100	50		>5	180			BGR ✓
950628	09	32	08	S2	20	90	10	0.7	100			BGR
950629	10	17	13.034	S1	70	250	80	2	1	6		115 ✓
950701	03	32	42.114	S1	340	1400	580	1.3	1	30		116 ✓
950701	06	35	37.604	S2	570	1600	700	0.05	1	11		117 ✓
950701	23	58	49.800	S2	1600	770	70	0.9	48	250		118 Sol
950702	12	09	32	S1	110	70		4.5	15			BGR
950703	05	33	38.718	S1	260	870	560	2.5	15	120		119 ✓
950704	03	10	31.823	S1	2600	5600	2600	4	0.6	4		120 ✓

K O N U S

1 5 / 2 / 9 6

U L Y S S E S R T

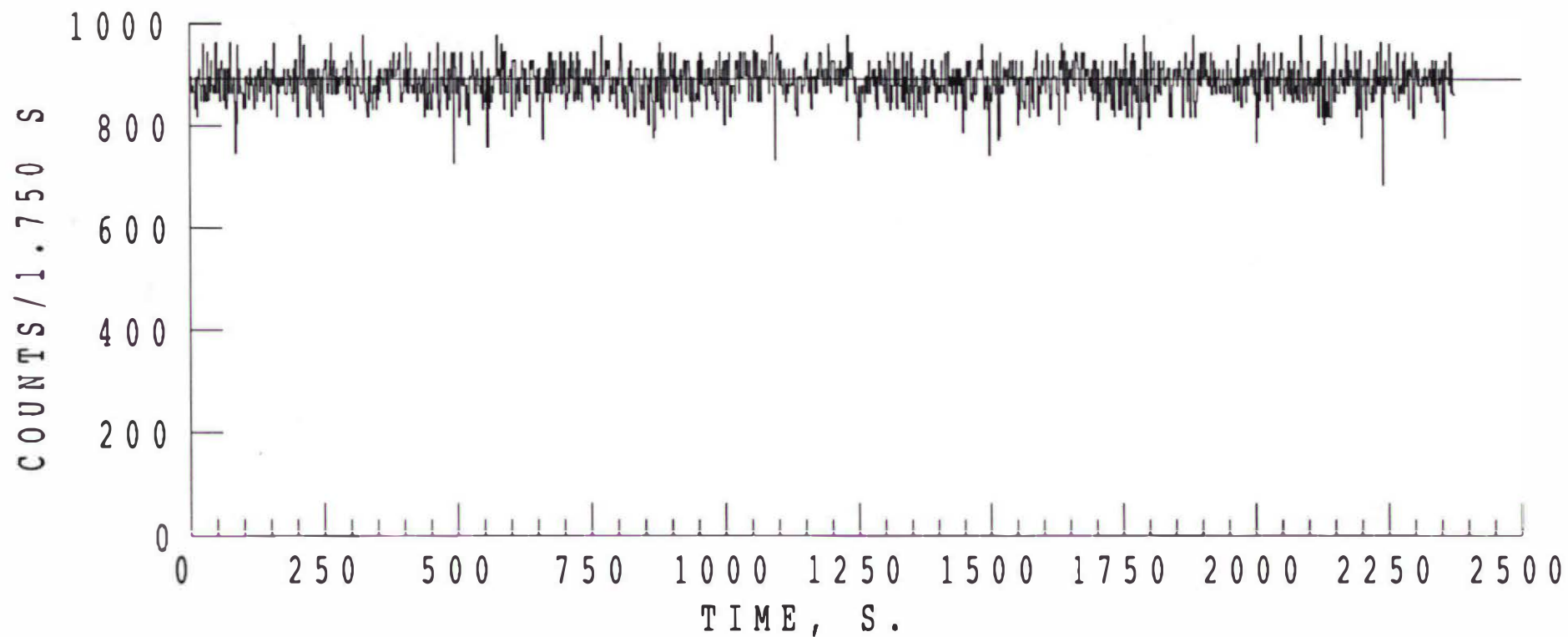
2 / 7 / 9 5 4 2 5 8 8 . 1 3 3 s

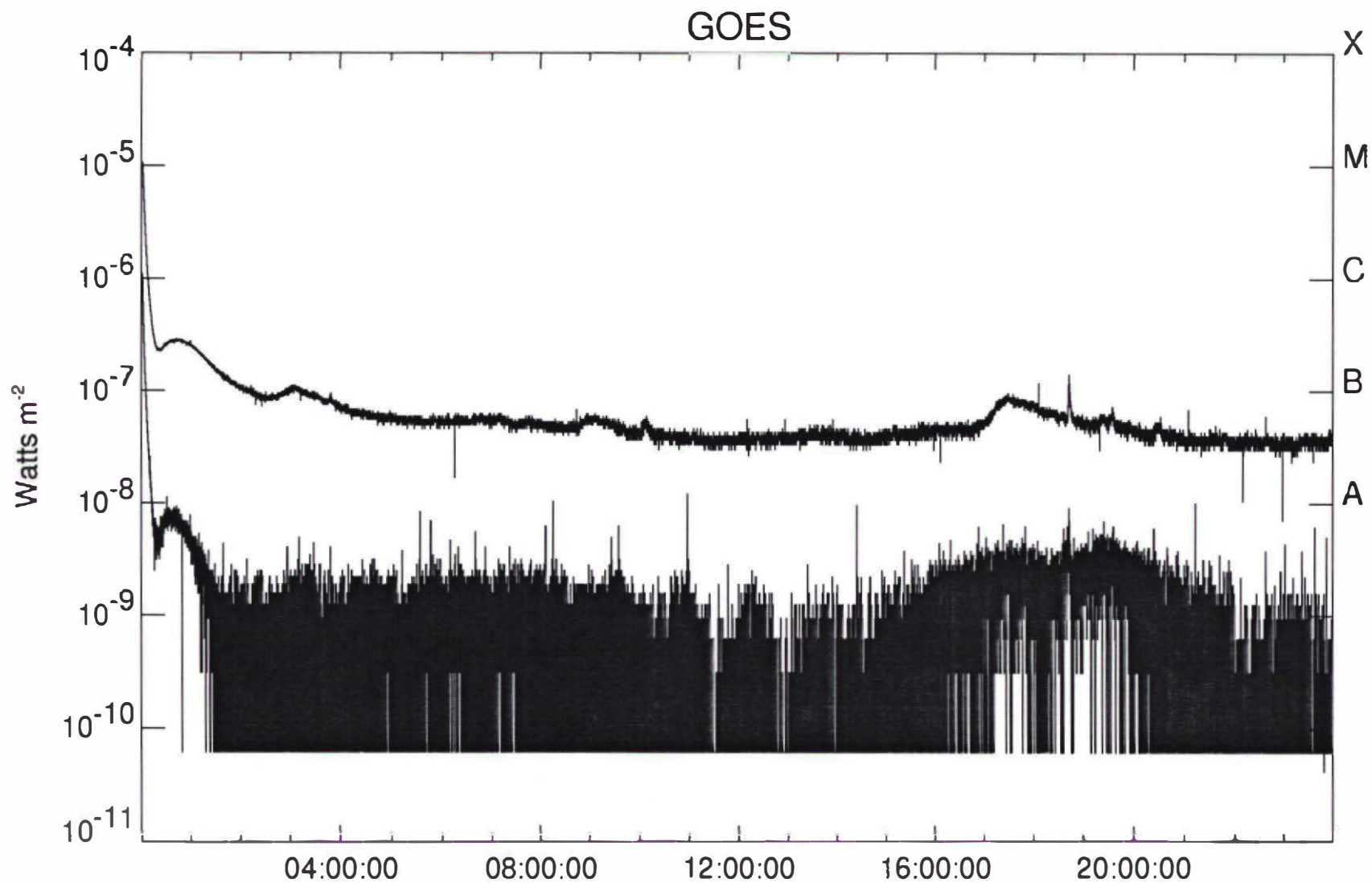
0 . 2 5 0 S I N T E R V A L S R E G R O U P E D B Y 7

0 - 0 k e V

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS





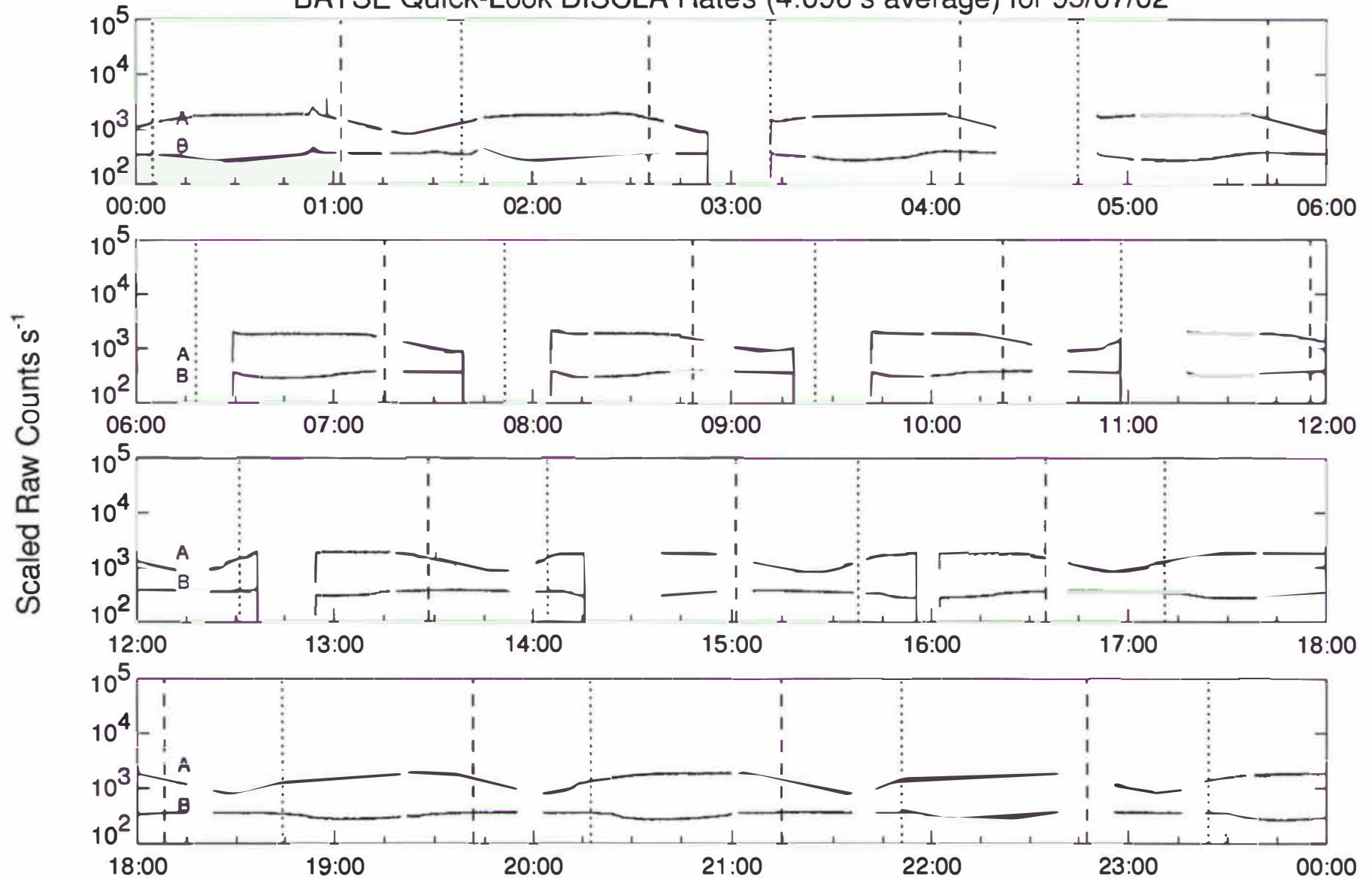
Data Start: 95/07/02, 0000:01

Plot created: 95/07/04, 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 95/07/02



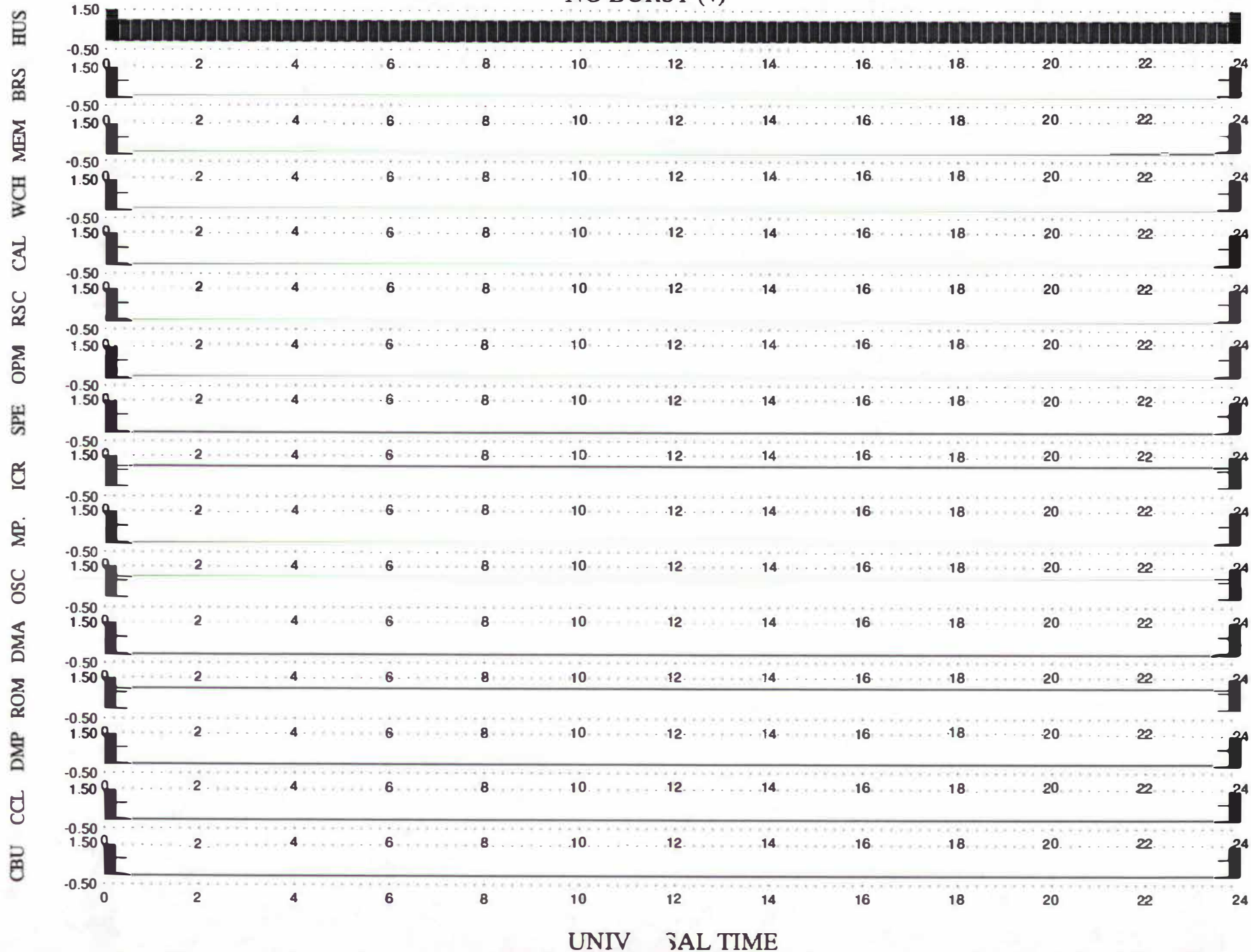
Current Time: 95/07/06, 1725 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

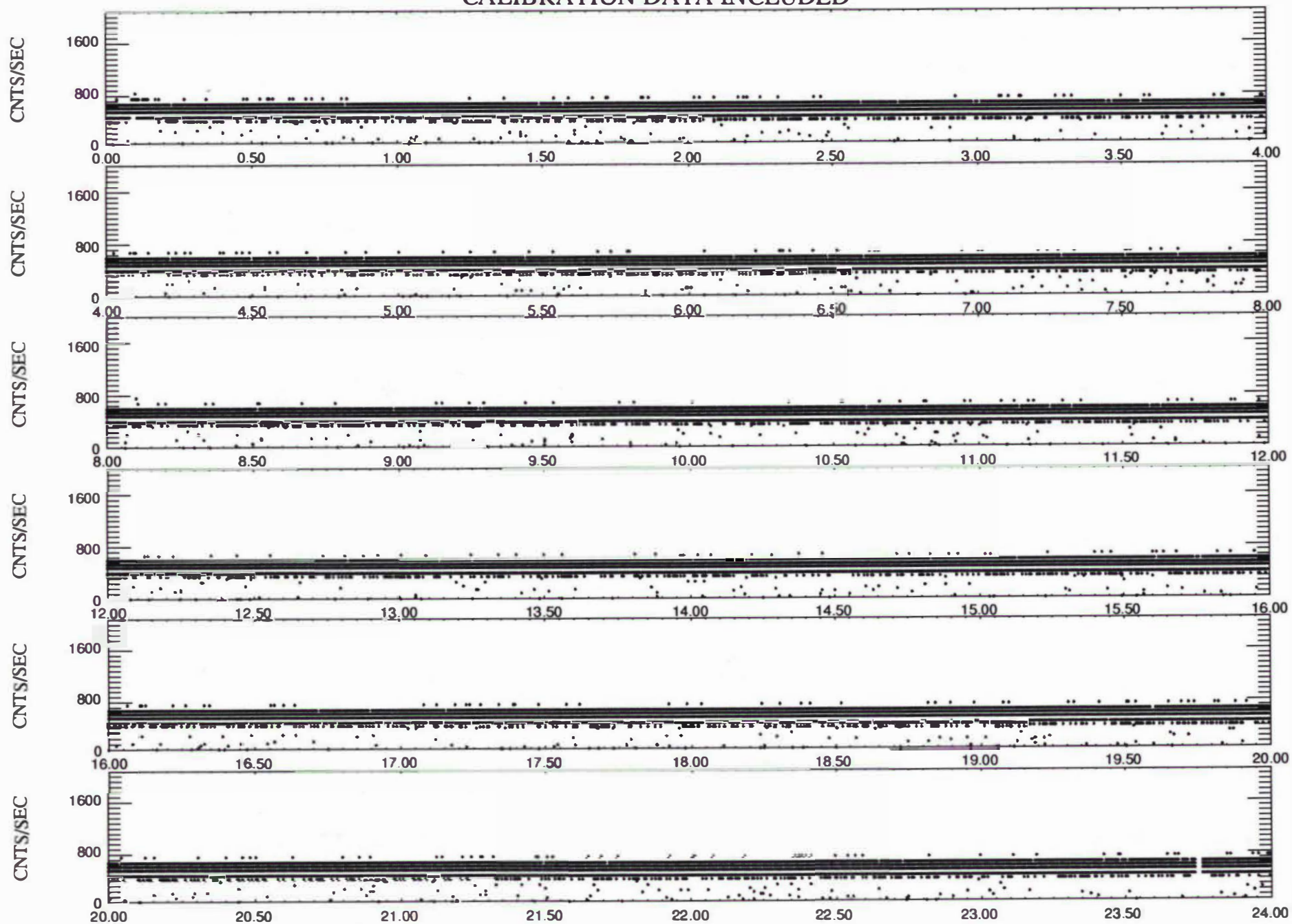
HUS MODES EDR day 183, year 1995 to day 183, year 1995 NO BURST (4)

1/25/96

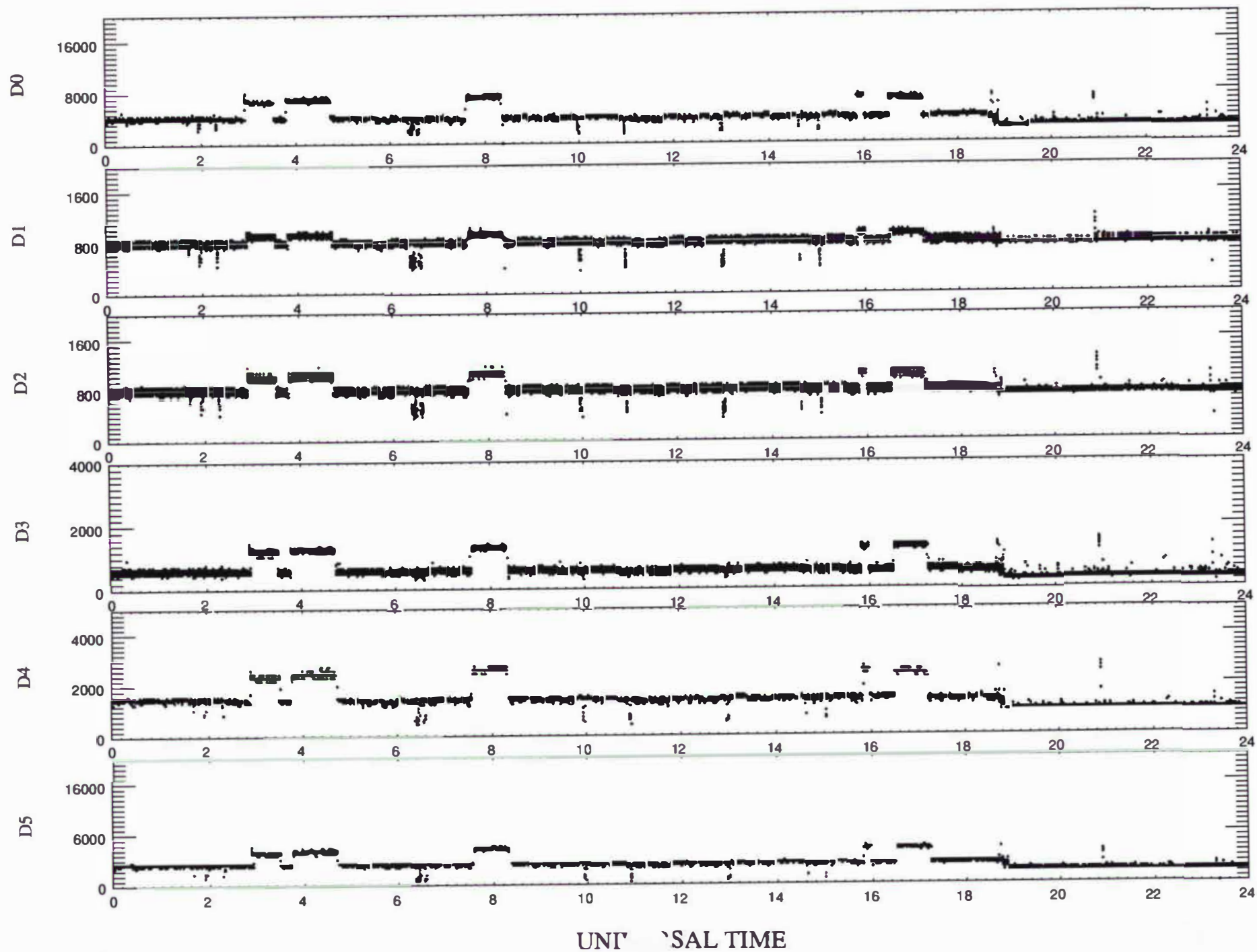


HUS 2A, MODE 1, NOT AVERAGED EDR day 183, year 1995 to day 183, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV SAL TIME

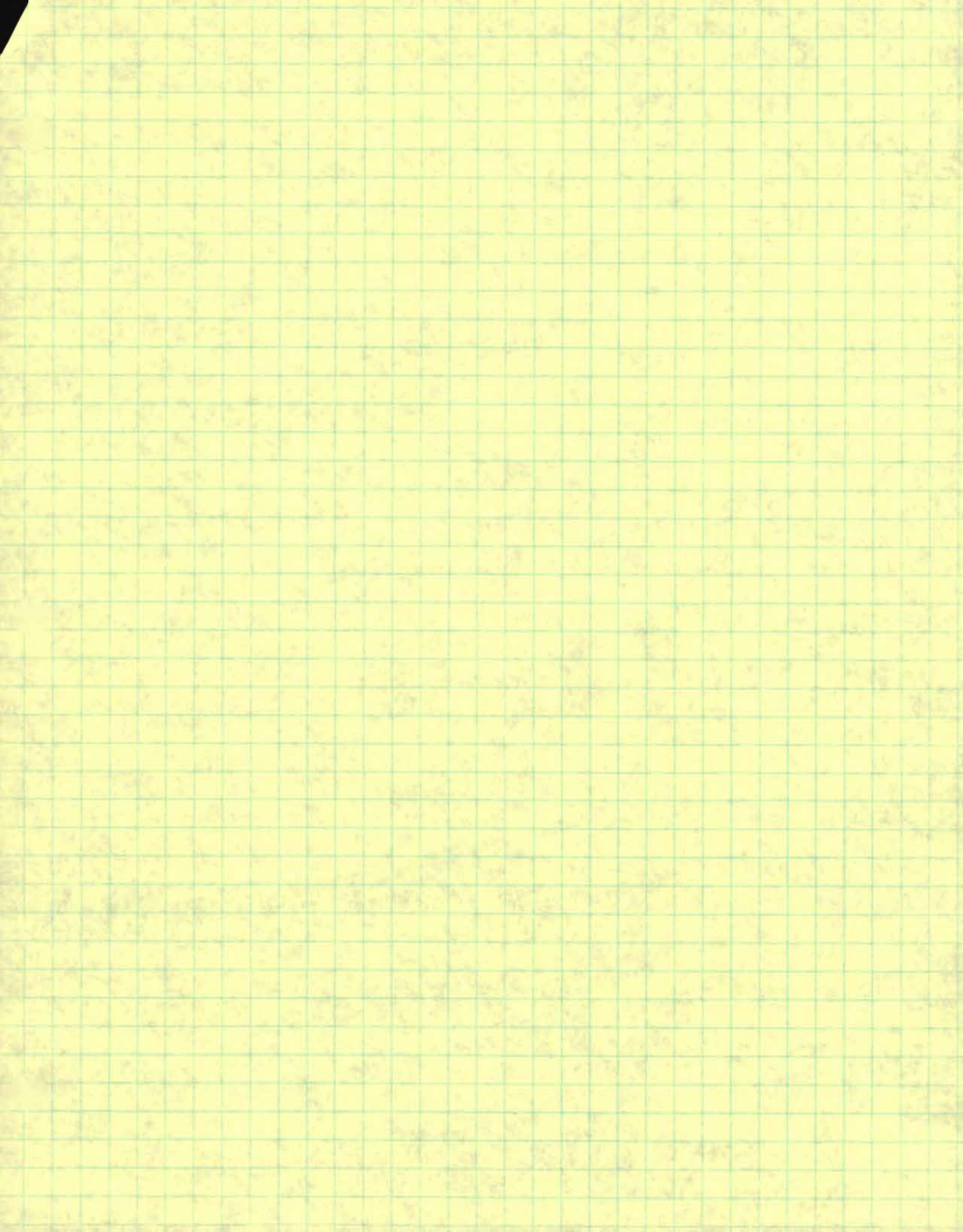


July 3

2 DMSP's : 20 s event
2 peaks

20030 s

(± 1000 s)



Date: Aug 29 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

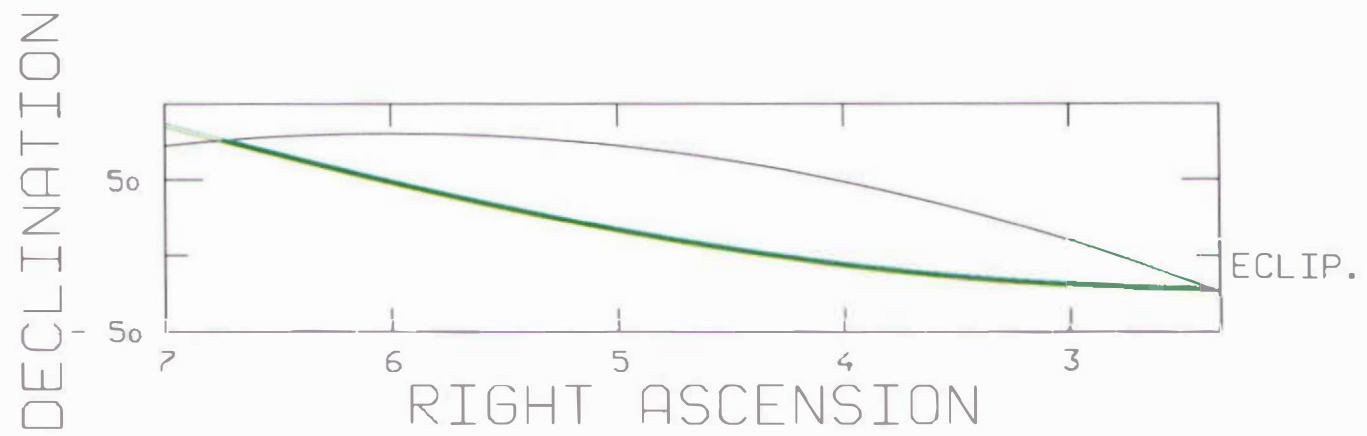
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

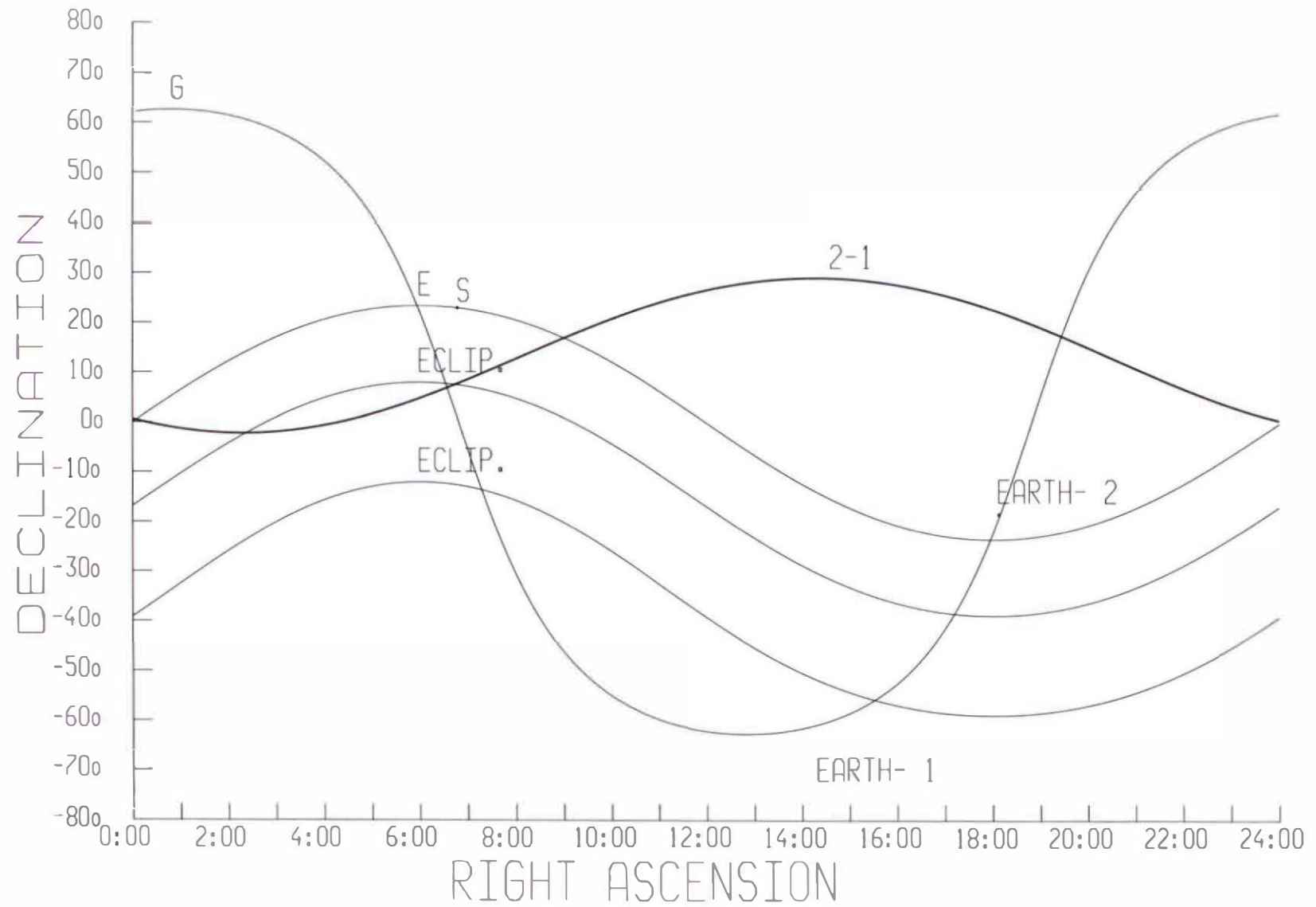
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

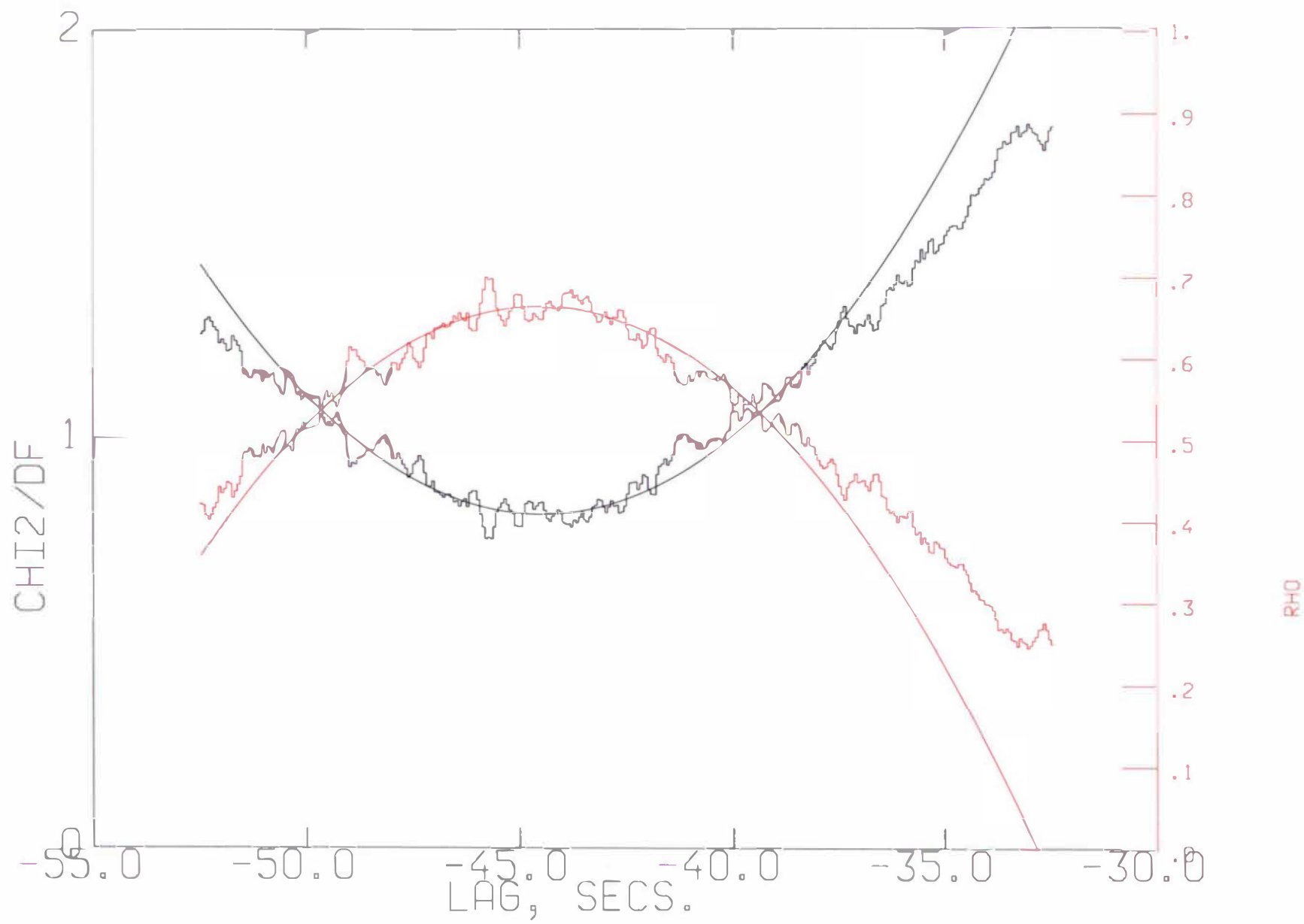


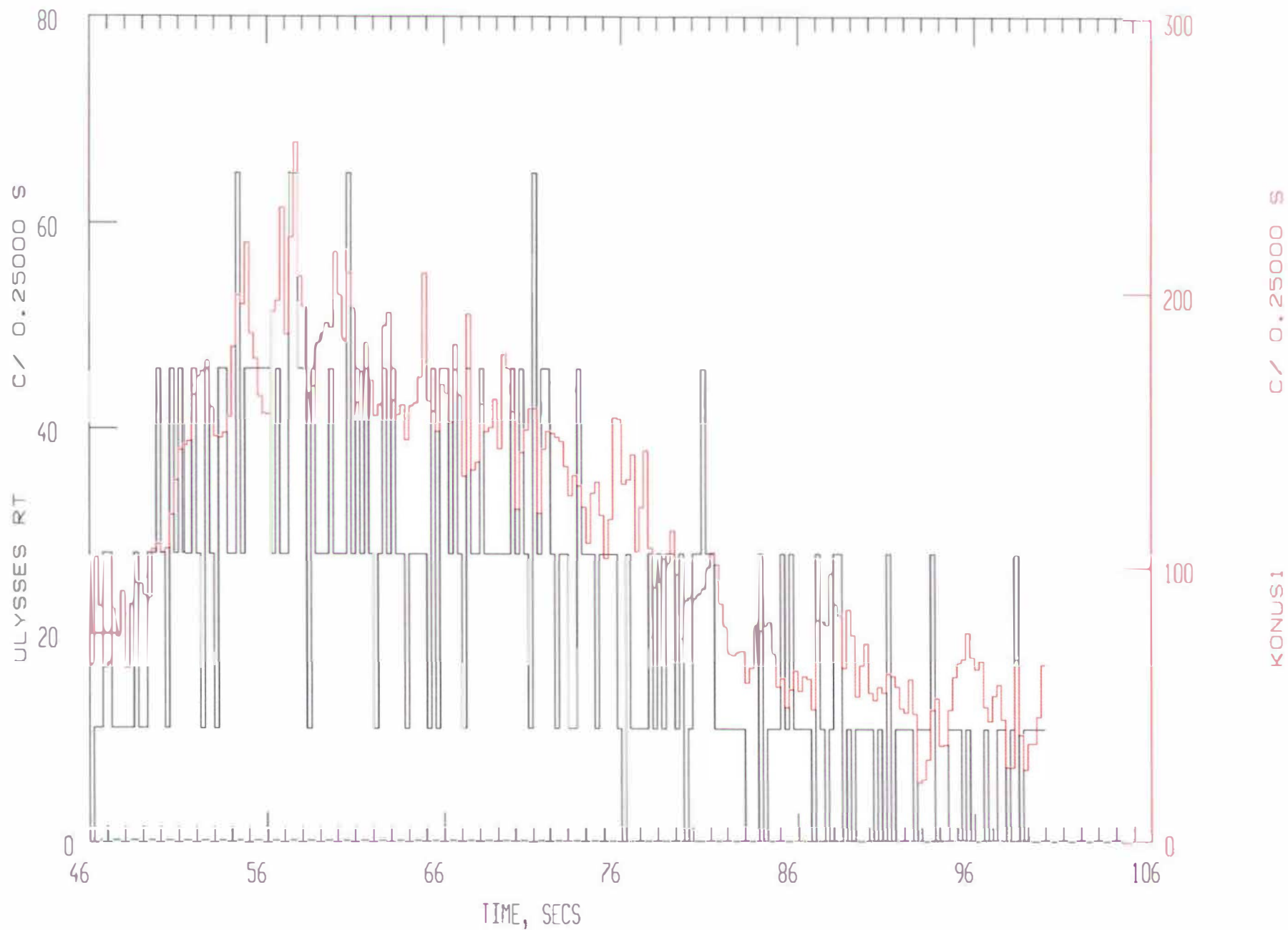
EVENT OF JUL 3, 1995 5:28

29/08/2011

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 19950703 19786

ULYSSES RT

27 / 08 / 11

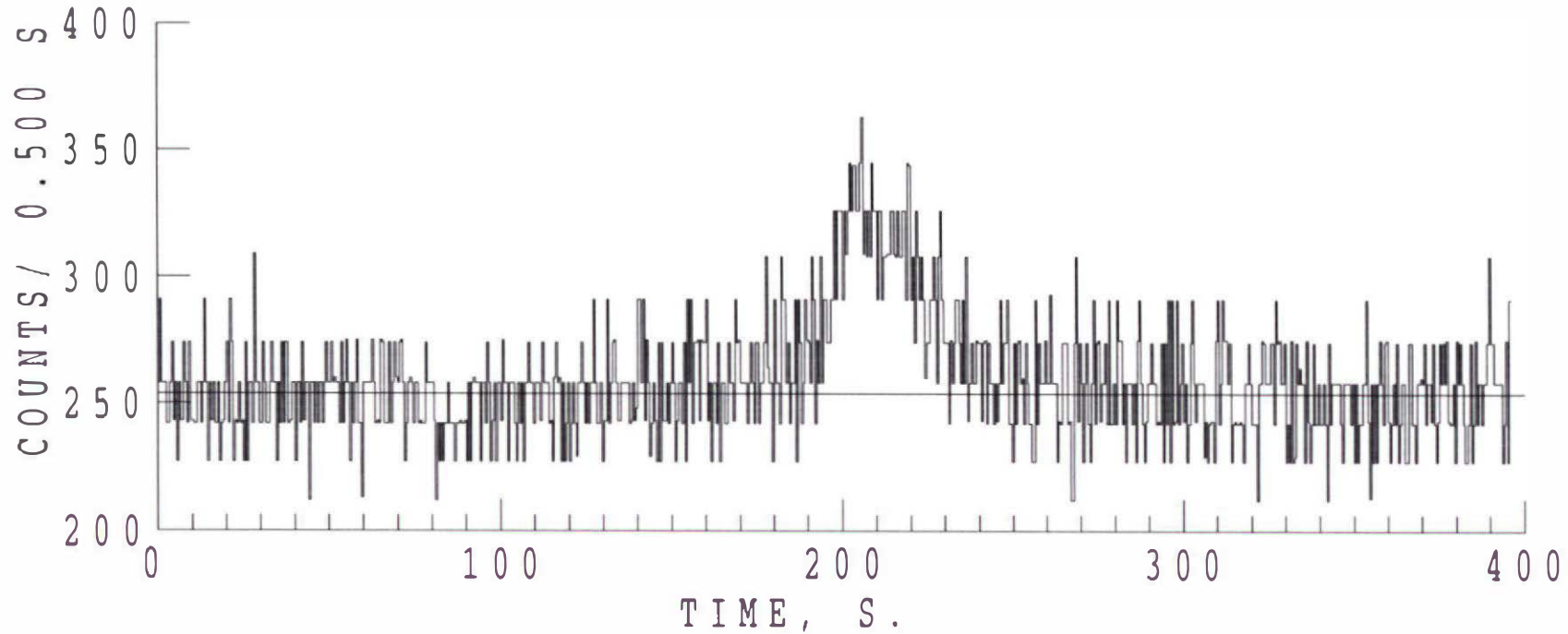
03/07/95 19584.104 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

M= 10 H= 2
>4.0 SIGMA FLUCTUATIONS

III



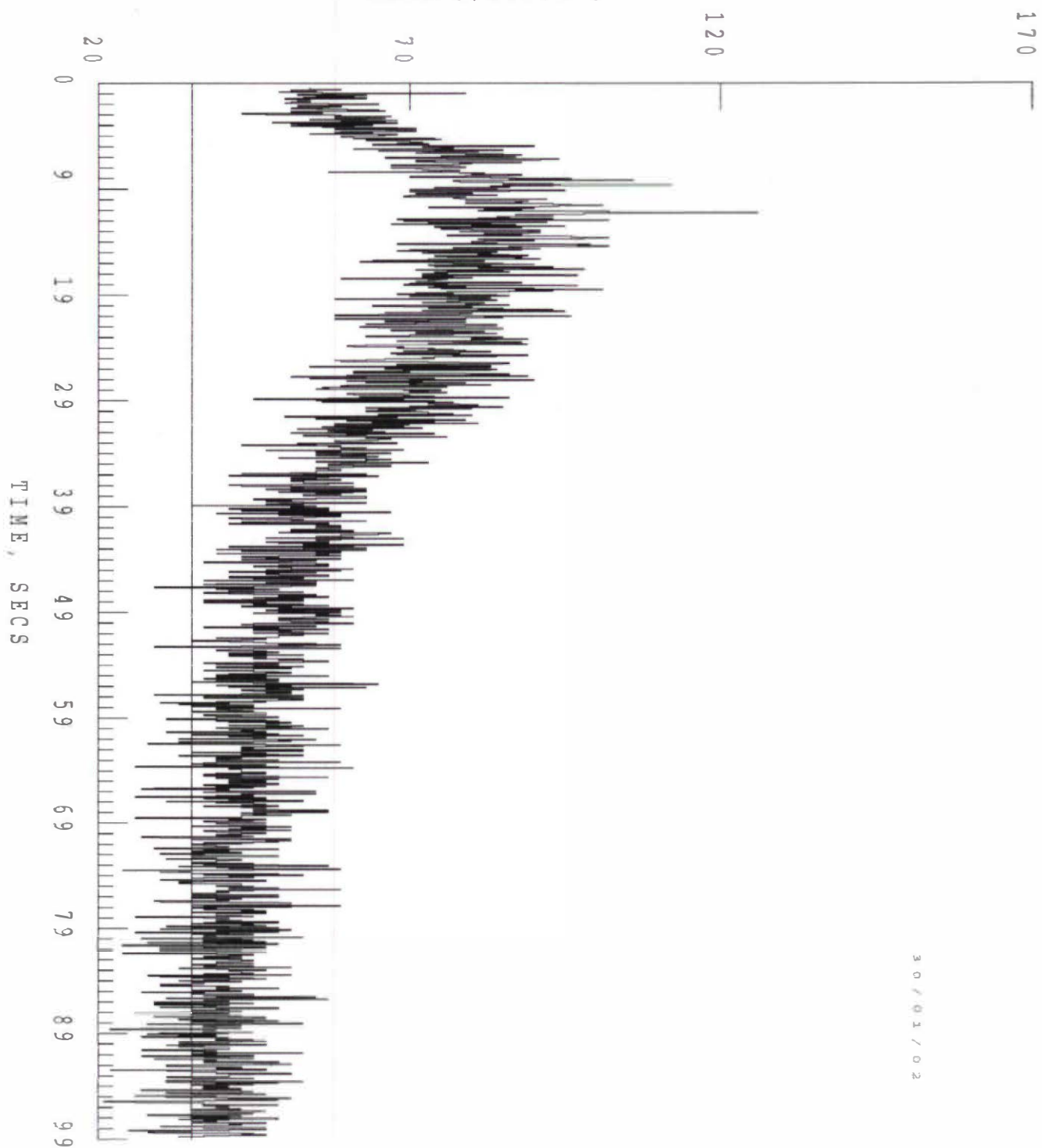
KONUS1

03/07/95

20018.718

50 - 200 keV

COUNTS/0.064 S



KONUS1 19950703 20018

ULYSSES RT

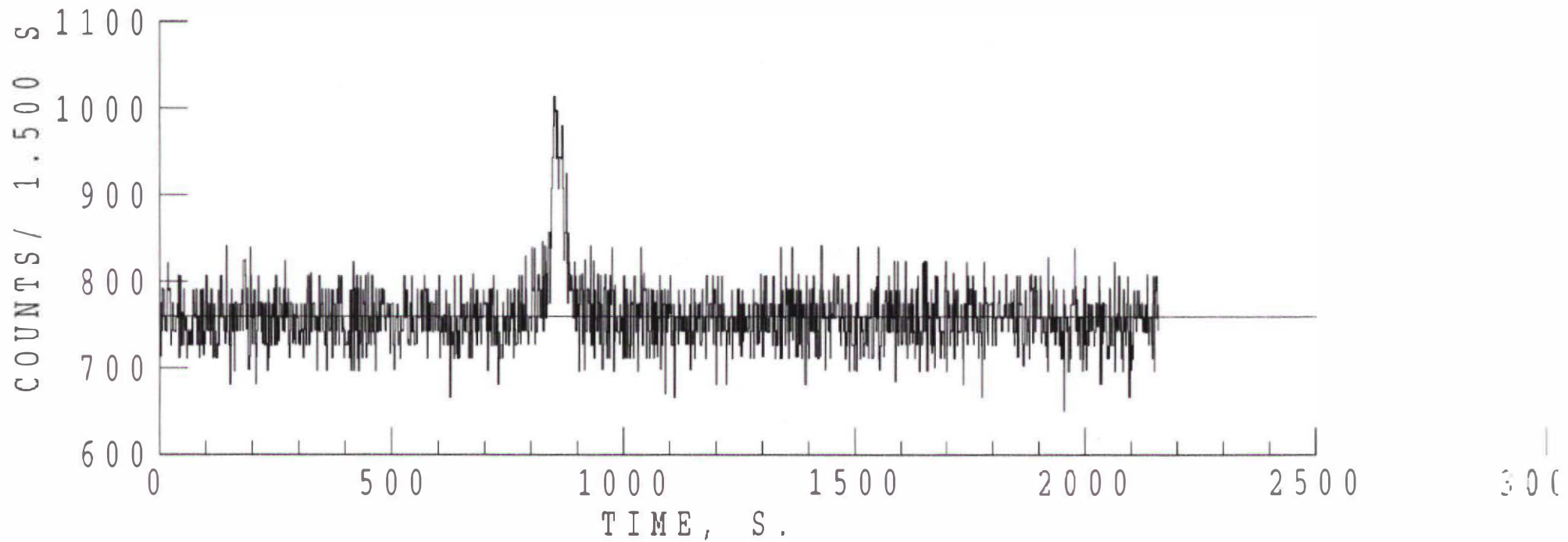
30 / ● 1 / 02

03/07/95 18936.094 s

0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

N=10 N=2
>4.0 SIGMA FLUCTUATIONS



1 7 / 8 / 9 5

ULYSSES RT

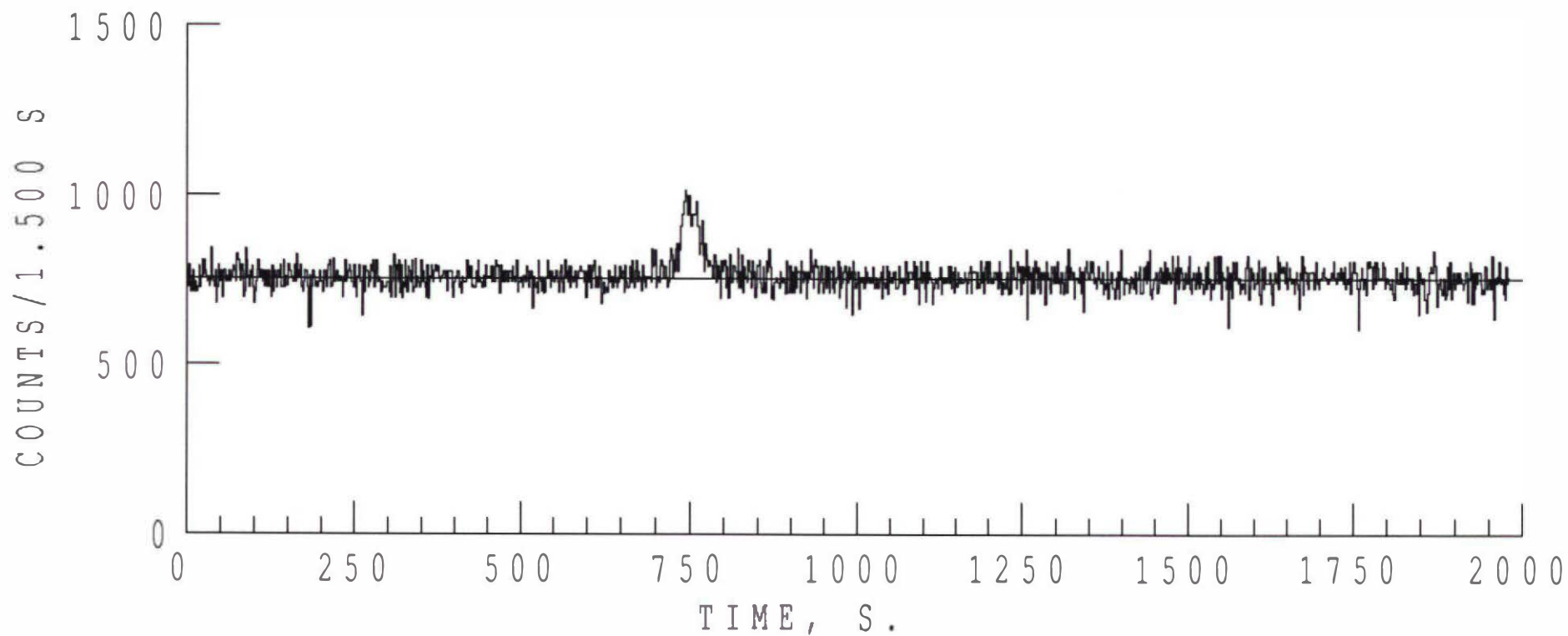
3 / 7 / 9 5 19044.094 s

0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

M= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From DEAL@SSLLES.MSFC.NASA.GOV Fri Jul 7 08:18 PDT 1995
From: DEAL@SSLLES.MSFC.NASA.GOV
Date: Fri, 7 Jul 1995 10:13:34 -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
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3661

TIME: TJD=9901 SECONDS=84400

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

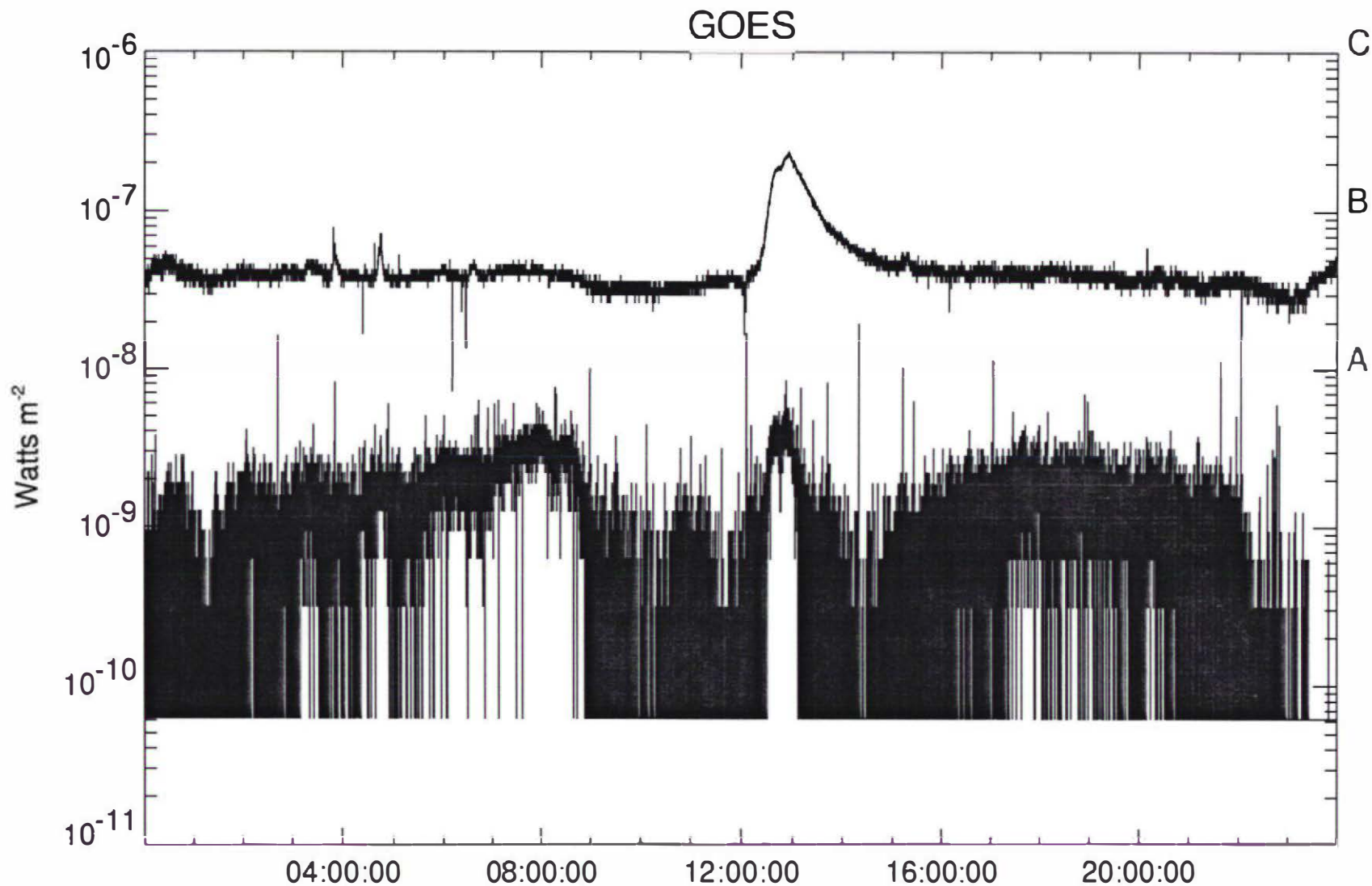
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

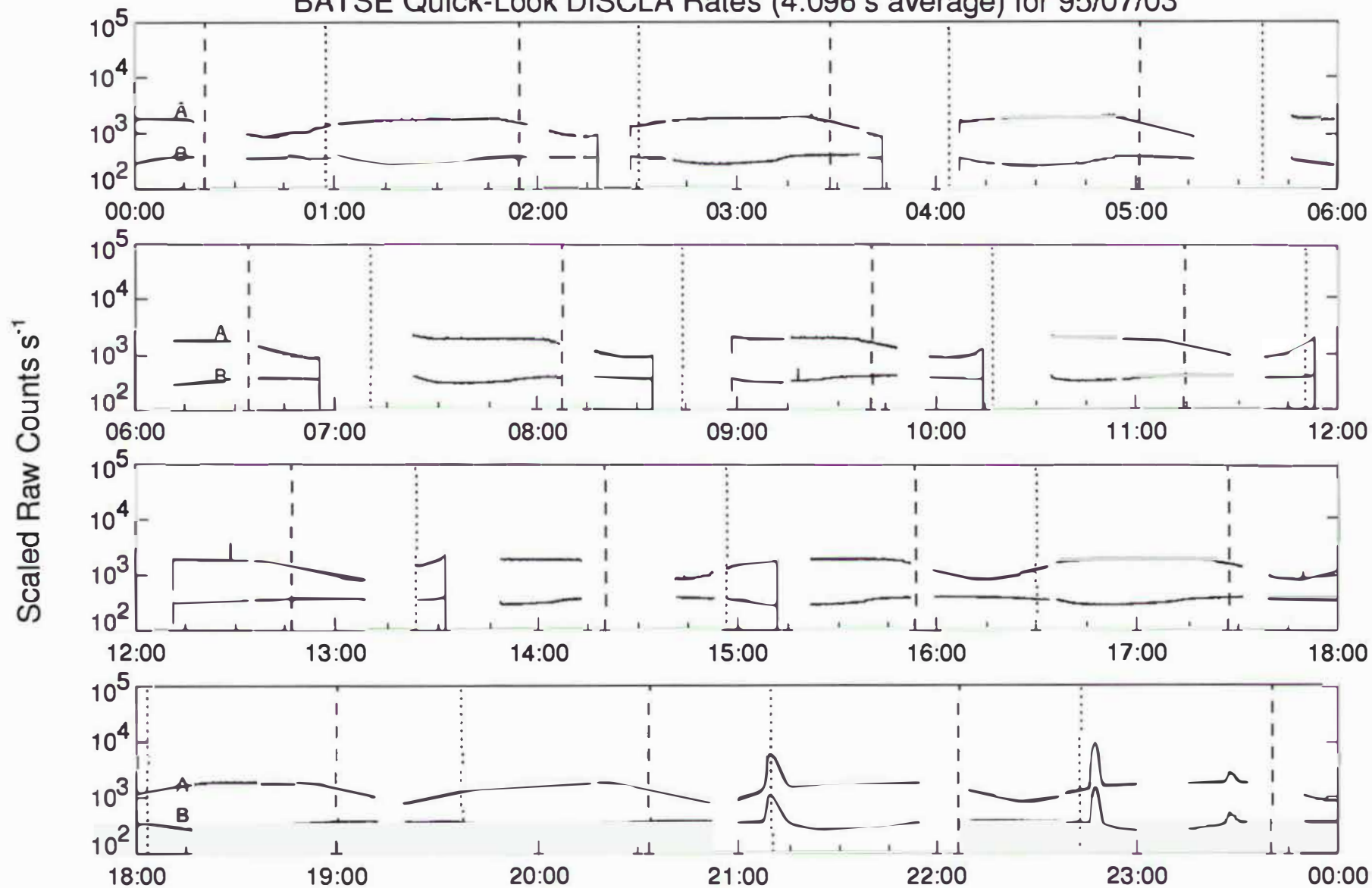
COMMENTS:

ELECTRON EVENT



Data Start: 95/07/03, 0000:02 Plot created: 95/07/05, 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 95/07/03



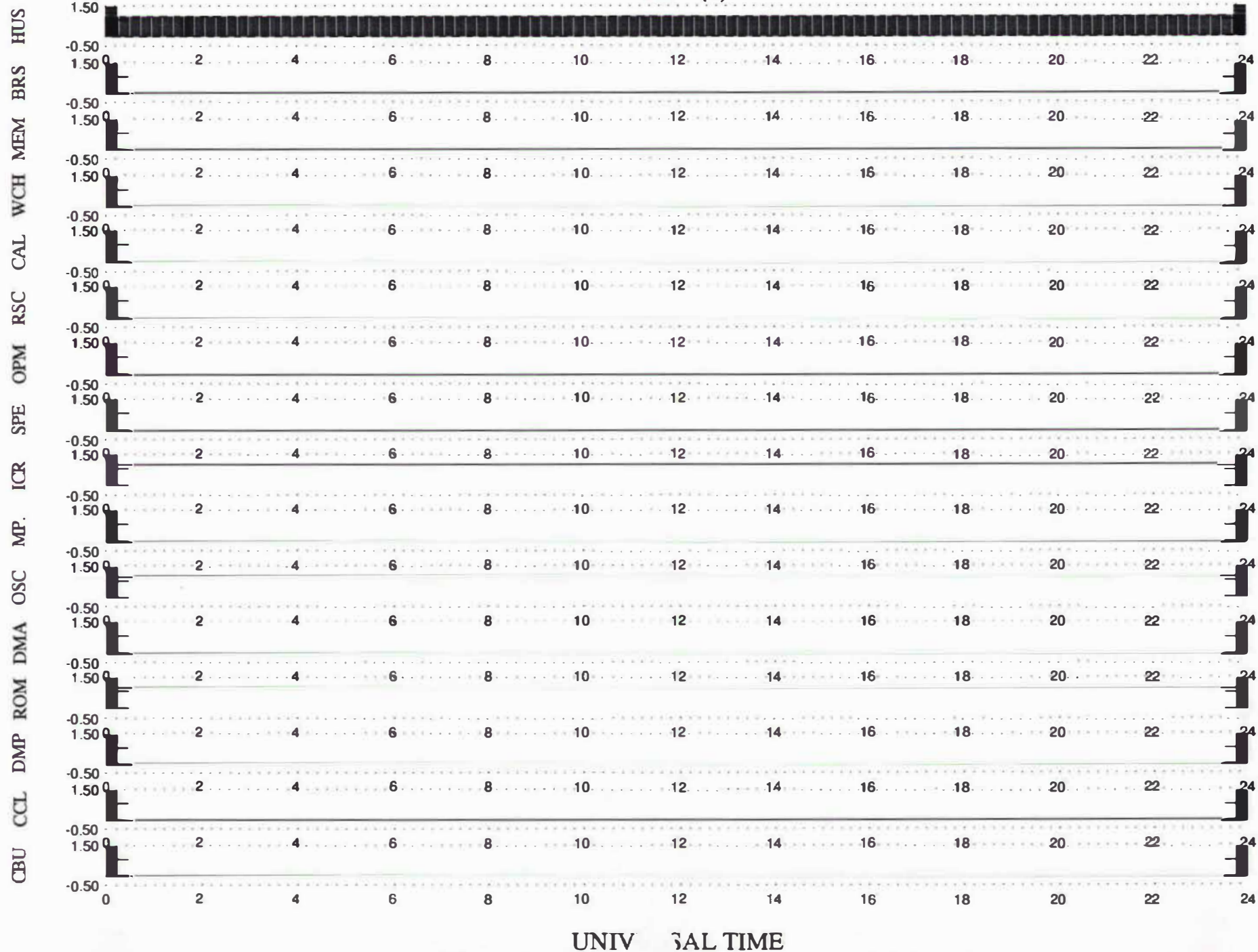
Current Time: 95/07/06, 1720 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

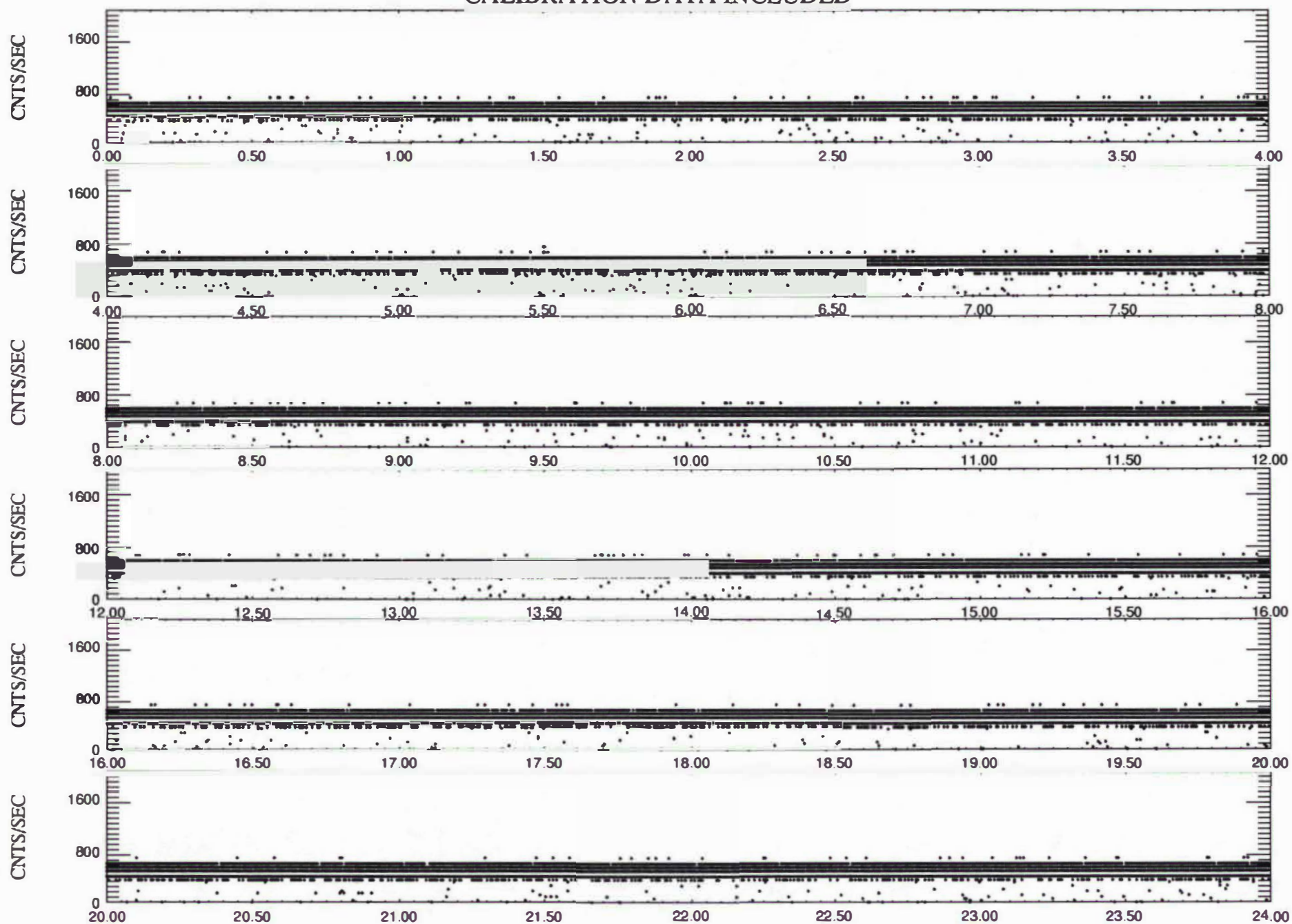
HUS MODES EDR day 184, year 1995 to day 184, year 1995
NO BURST (4)

1/25/96

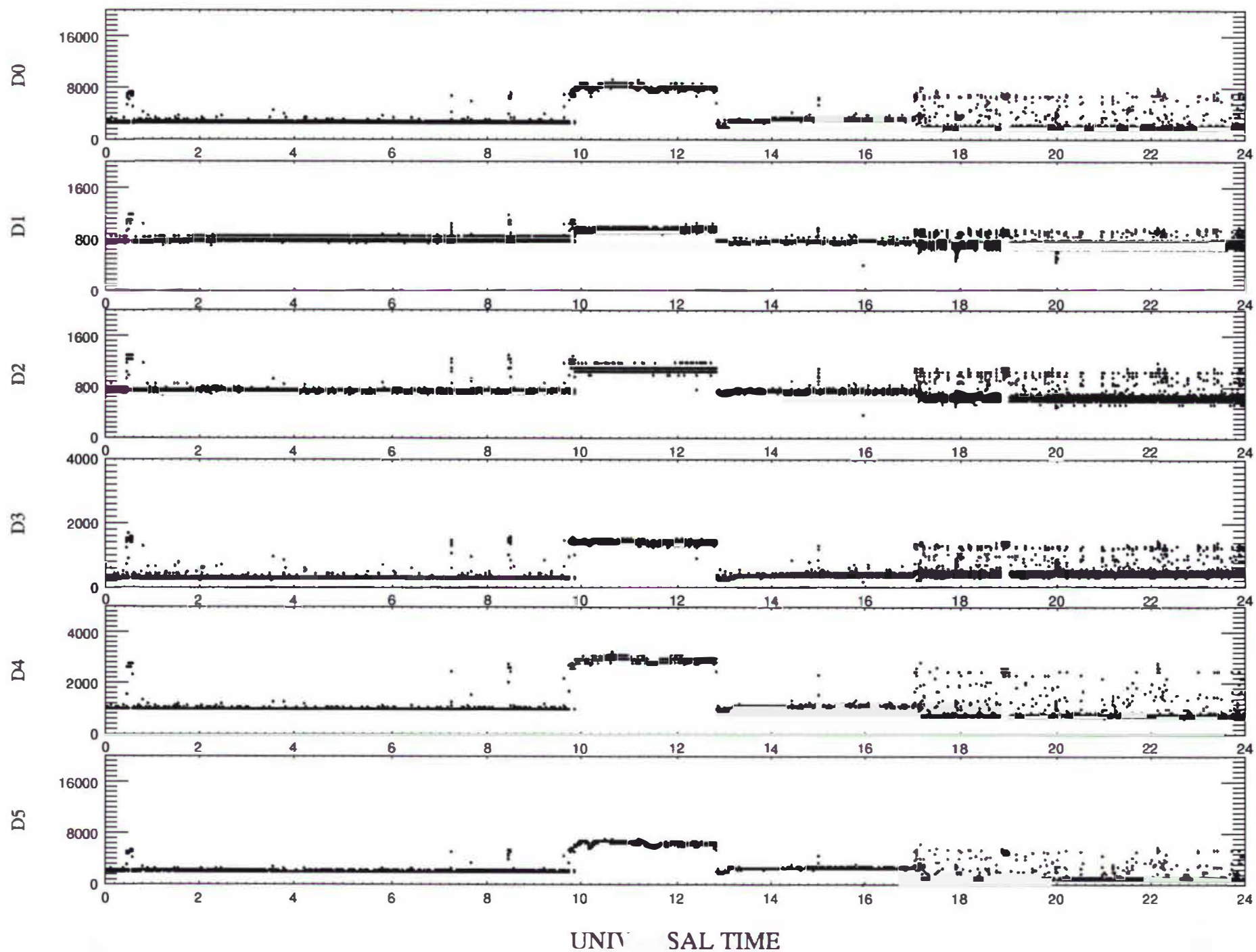


HUS 2A, MODE 1, NOT AVERAGED EDR day 184, year 1995 to day 184, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV SAL TIME



From yosimori@rikkyo.ac.jp Tue Dec 19 01:40 PST 1995
From: "M. Yoshimori" <yosimori@rikkyo.ac.jp>
Date: Tue, 19 Dec 1995 18:39:14 +0900
To: khurley@space6.ssl.berkeley.edu
Cc: yosimori@rikkyo.ac.jp
Subject: Yohkoh gamma-ray burst candidates

Dear Dr.Hurley,

We found the following four candidates of gamma-ray bursts from Yohkoh.

Could you investigate whether these four events were simultaneously observed with Ulysses or BATSE ?

1. 1995 July 1 03:32:41 UT
2. 1995 July 4 03:10:34 UT
3. 1995 Aug. 4 01:58:56 UT
4. 1995 Aug.22 03:49:10 UT

These onset times are not finalized, so there may be some errors.
If you need the time profiles, I can send them by FAX.

Thank you for your cooperation.

Best regards,

M.Yoshimori

From cline@tgrs.gsfc.nasa.gov Thu Jul 6 11:25 PDT 1995
Date: Thu, 6 Jul 1995 11:25:56 -0700
Mime-Version: 1.0
To: KHURLEY@sunspot.ssl.berkeley.edu
From: cline@tgrs.gsfc.nasa.gov (T L Cline)
Subject: Konus saw the July 4th event.

Tom,
Konus triggered at 03:10:31.823 in the S1 detector. The event lasted 3 seconds, and consisted of a set of 5 evenly-spaced peaks superimposed on a rising trend in brightness, with a steep decline to background levels after 2.5 seconds.
Paul.

T

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

Date: Aug 29 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

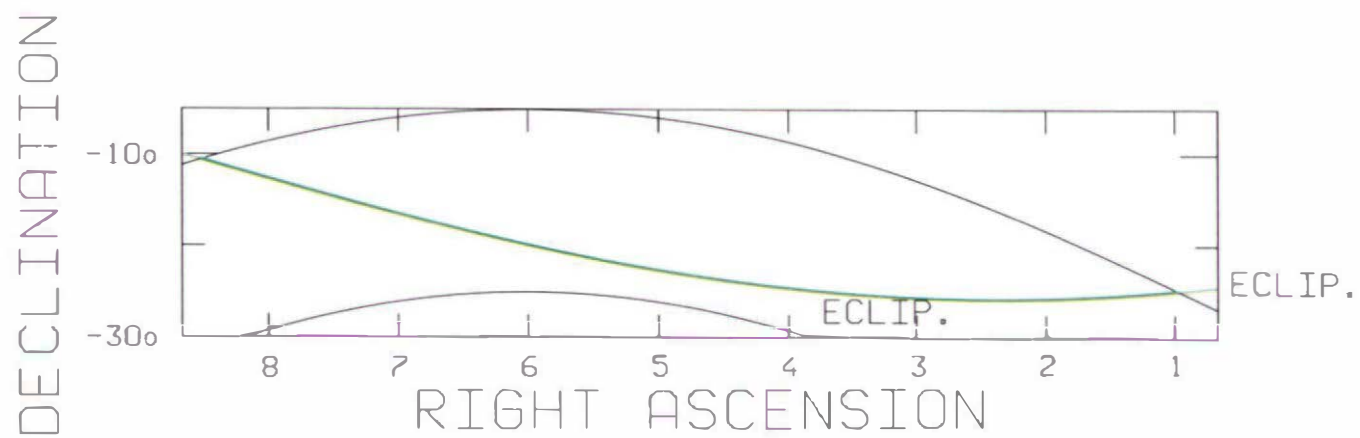
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

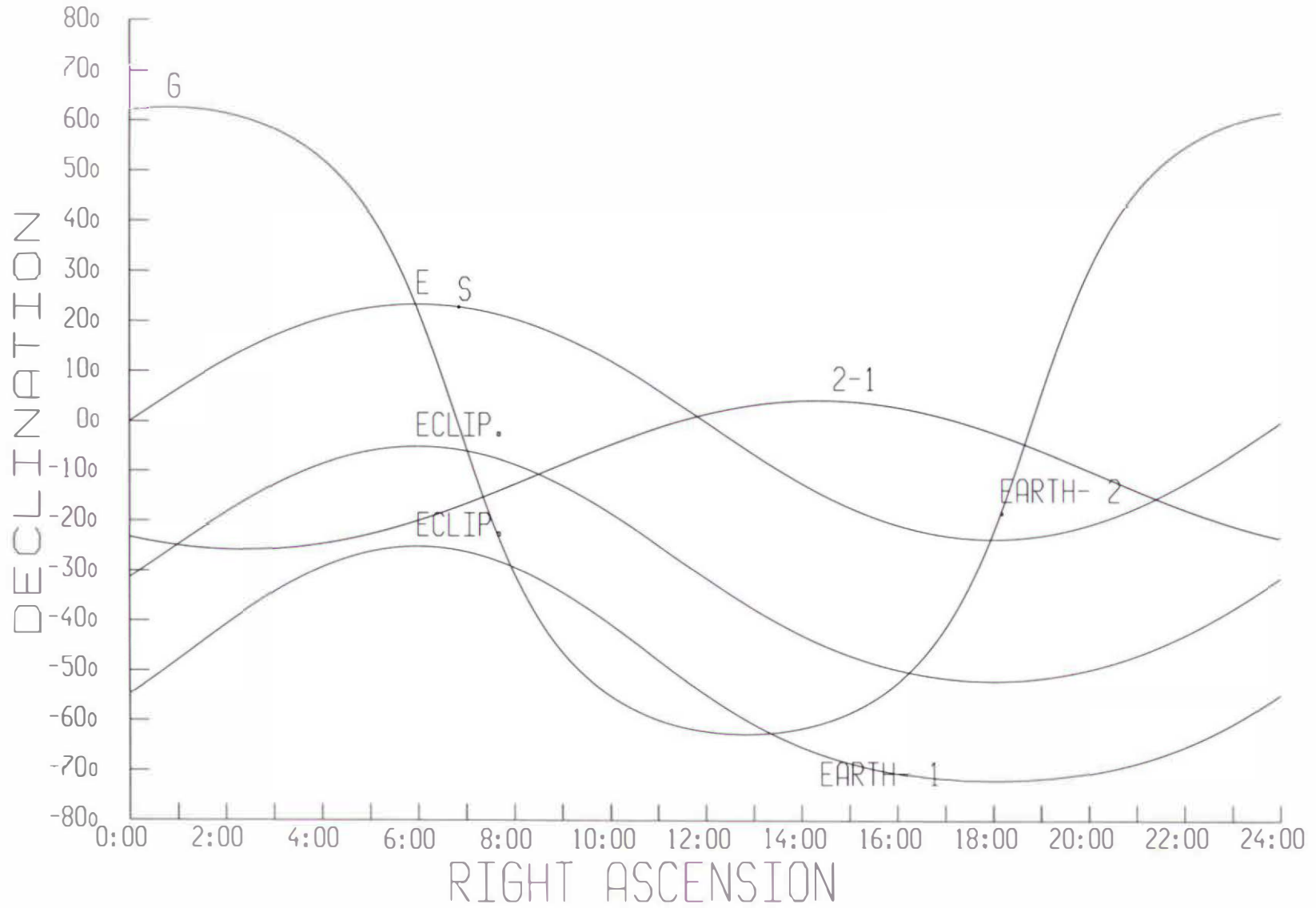
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

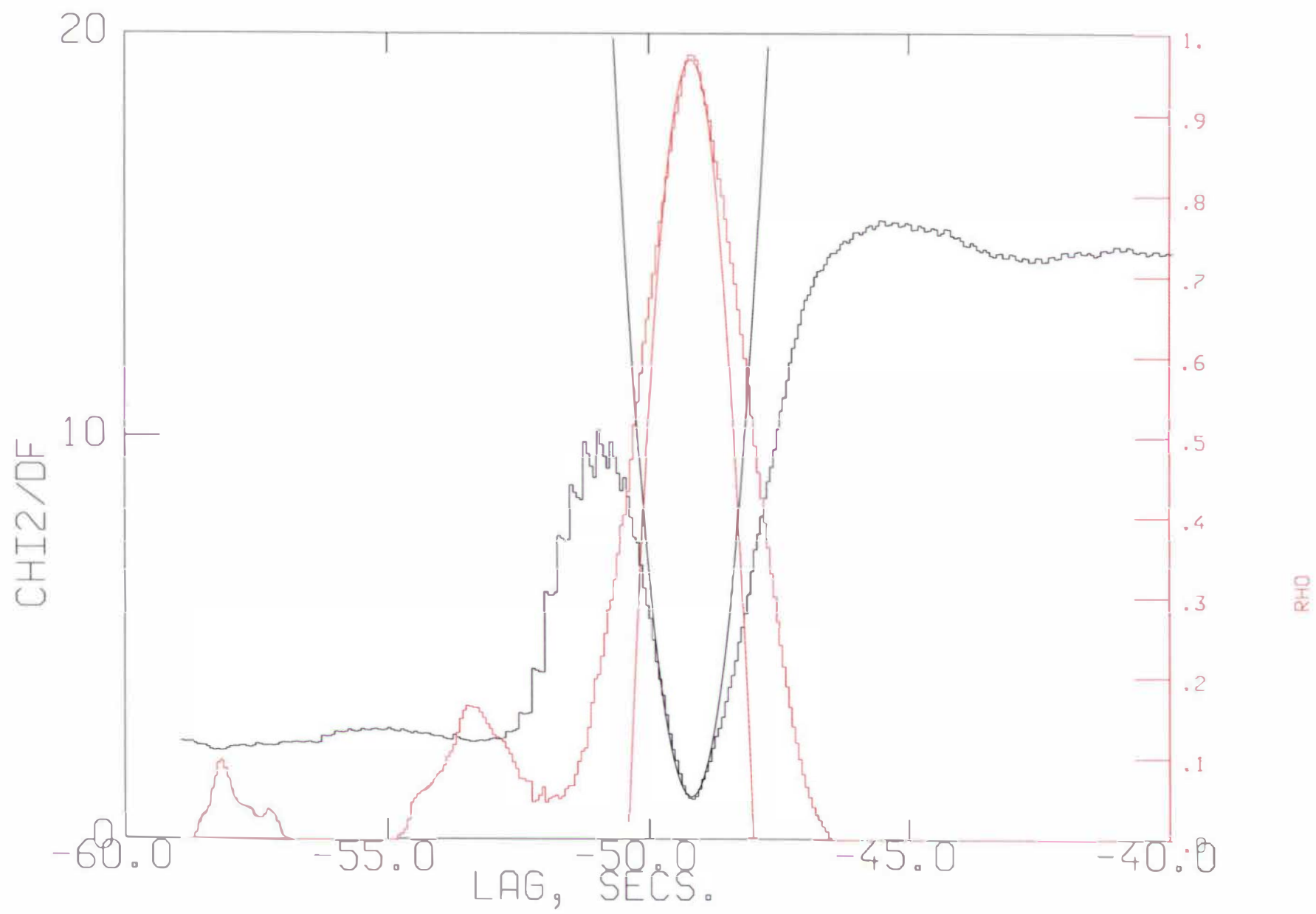


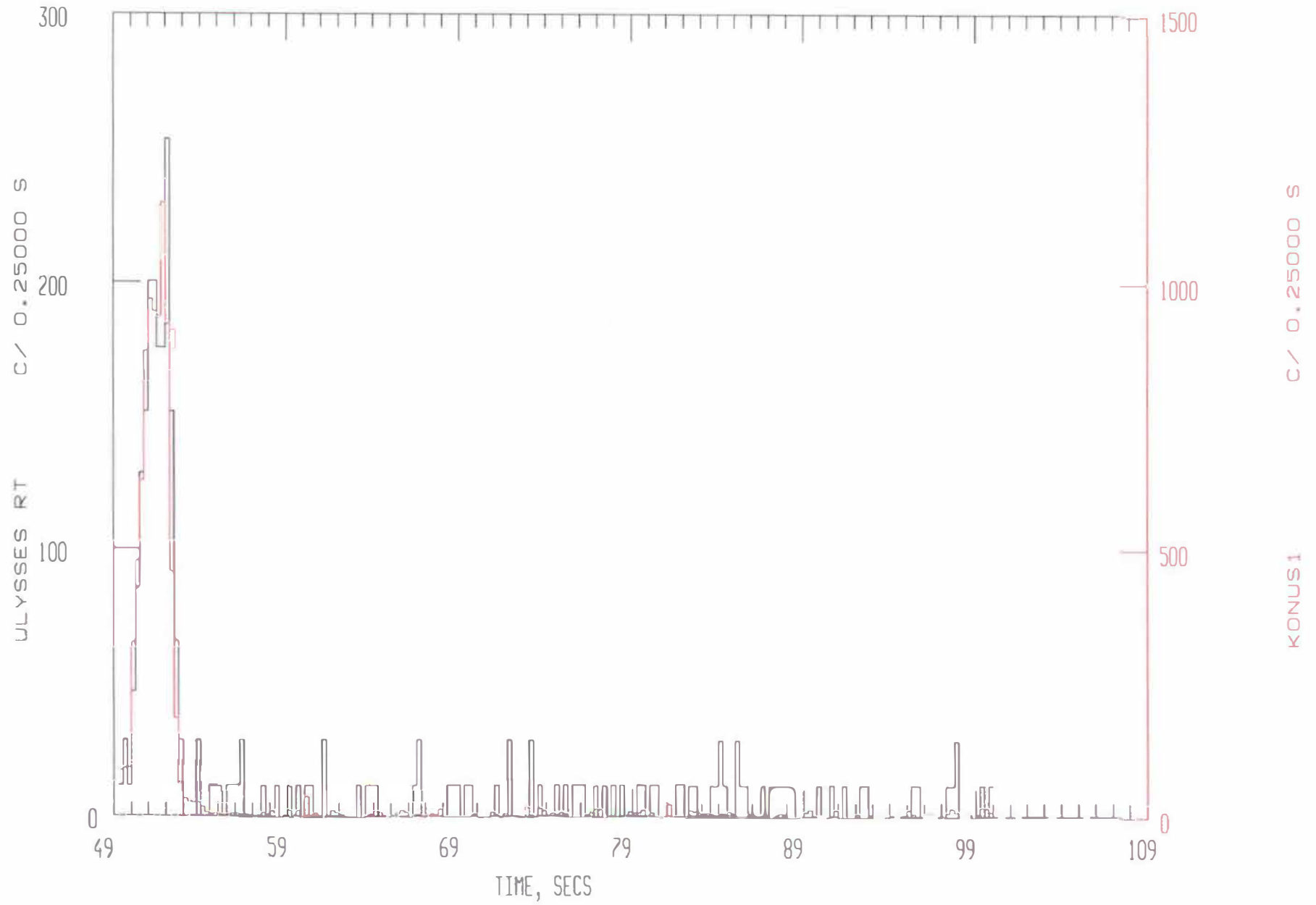
EVENT OF JUL 4, 1995 3:12

29/08/2011

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 19950704 11624

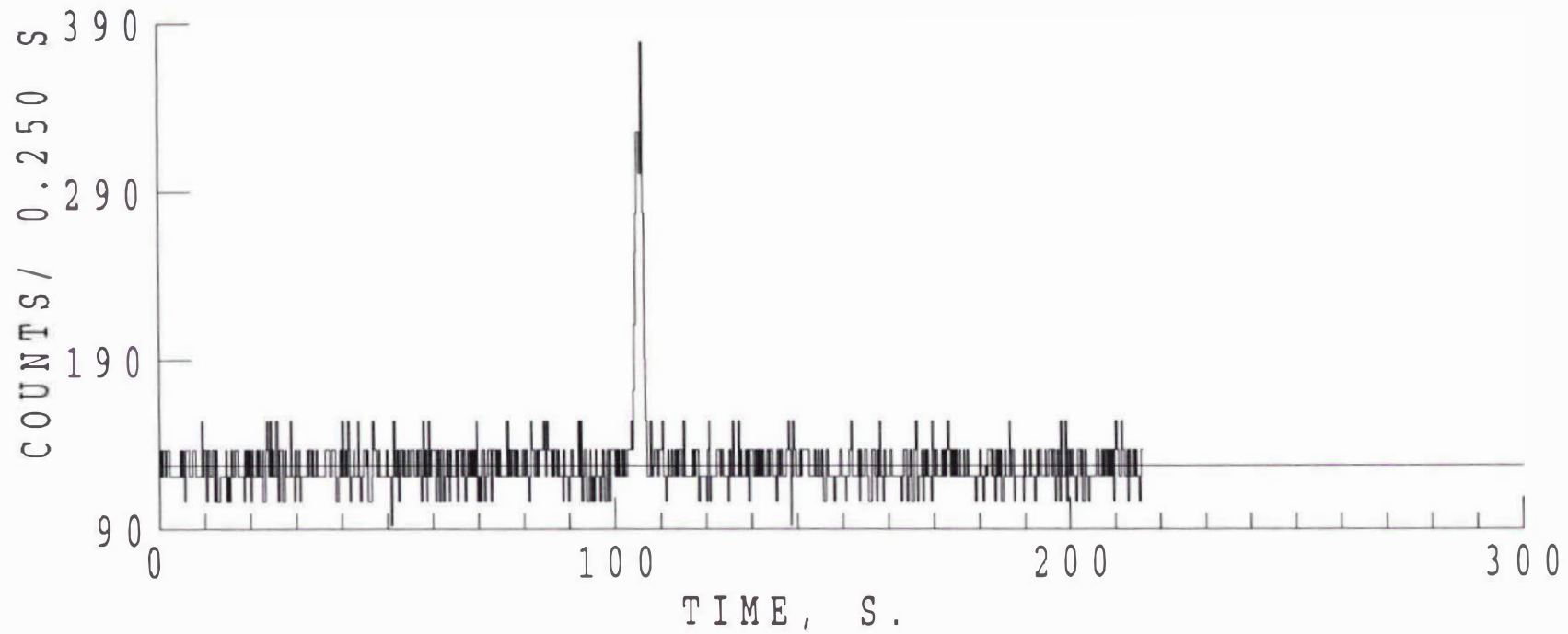
ULYSSES RT

27 / 08 / 11

04/07/95 11520.052 s

0 - 0 keV

M= 10 N= 2
>4.0 SIGMA FLUCTUATIONS

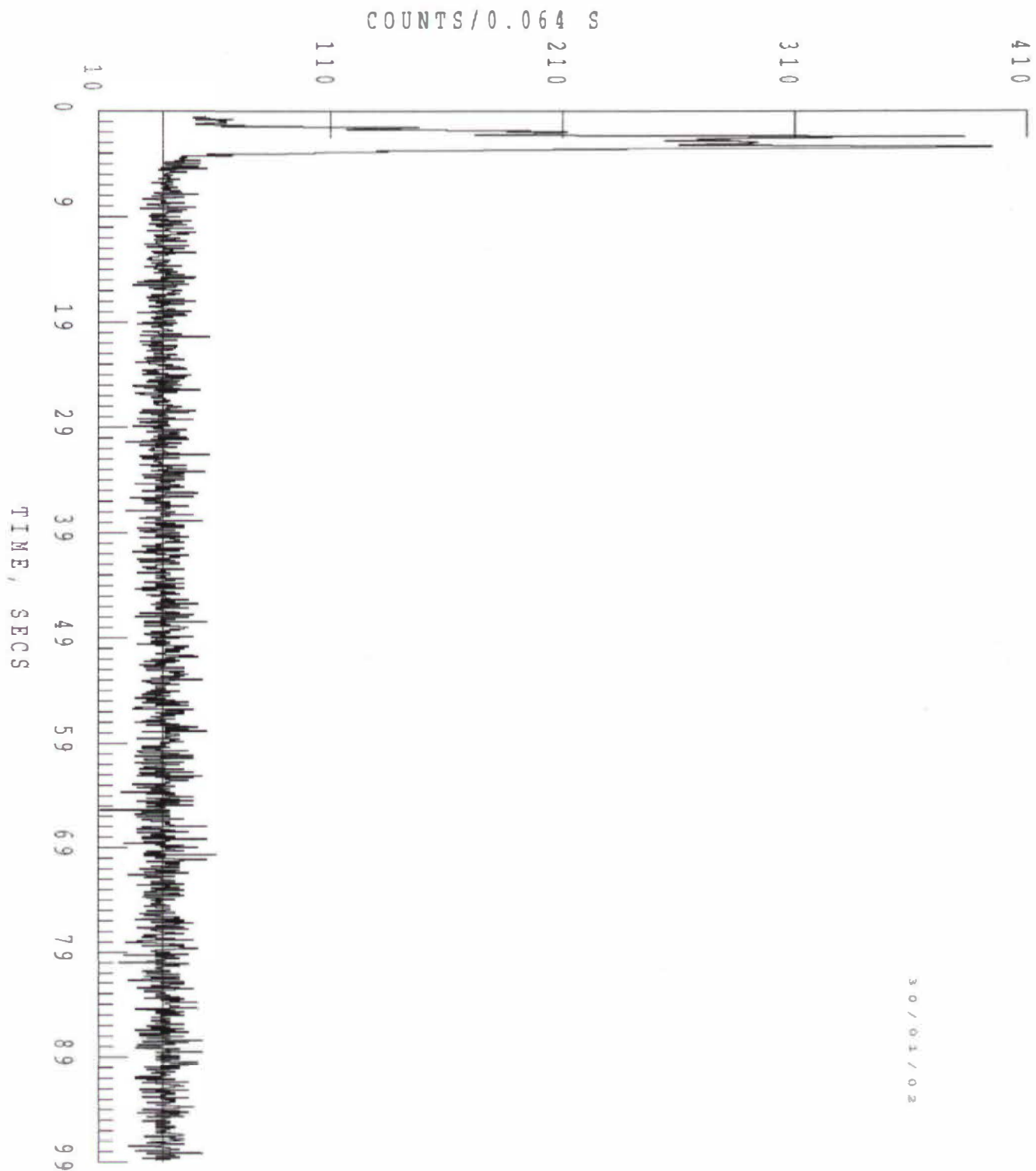


KONUS1

04/07/95

11431.823

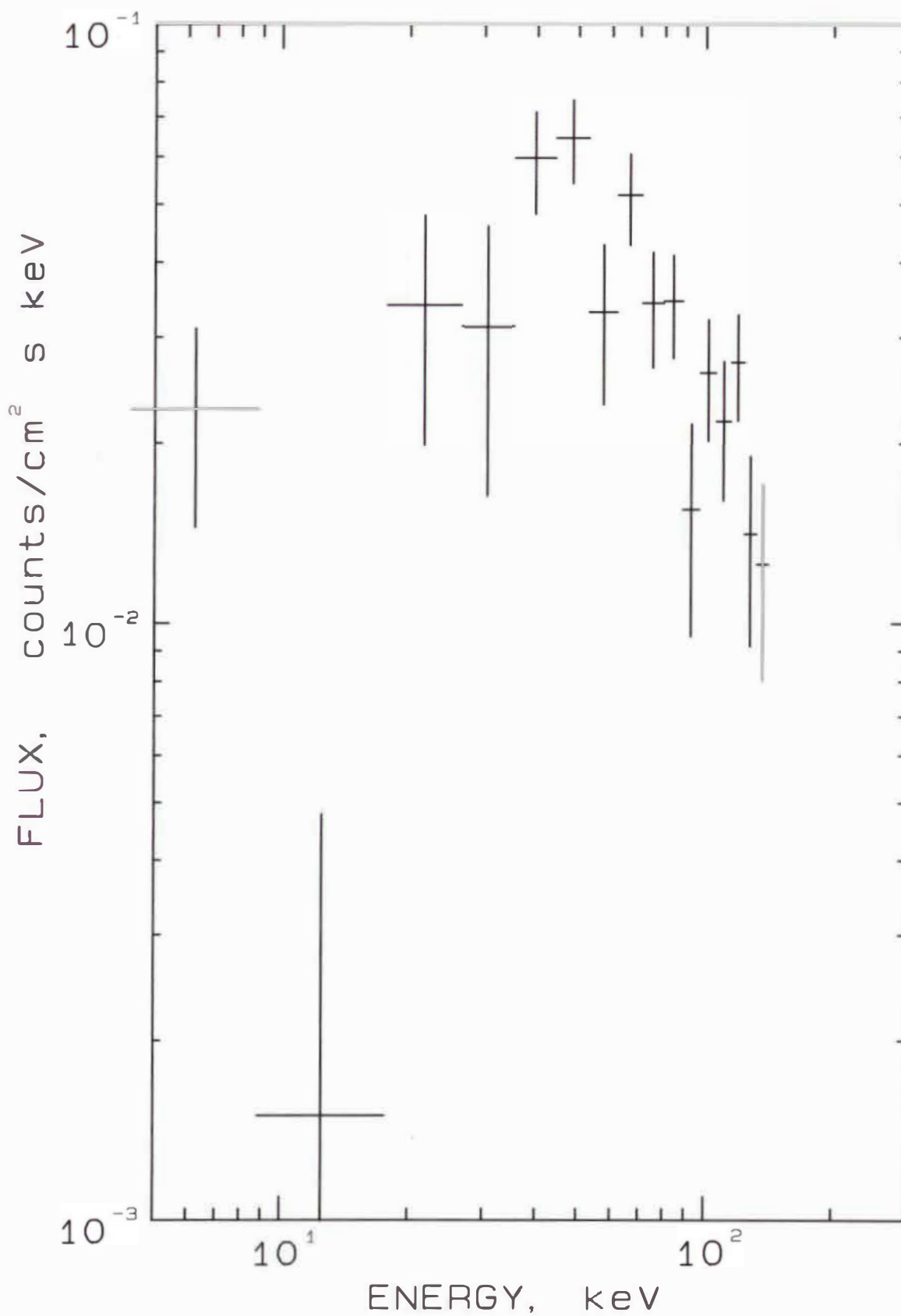
50 - 200 keV



ULYSSES 04/07/95 11624.654

14/11/97

SPECTRUM INTEGRATED OVER 21.2 SECONDS, INTERVALS 2 TO 20



ULYSSES 04/07/95 11624.654 BURST SPECTRAL COUNT RATES

4- 17 keV

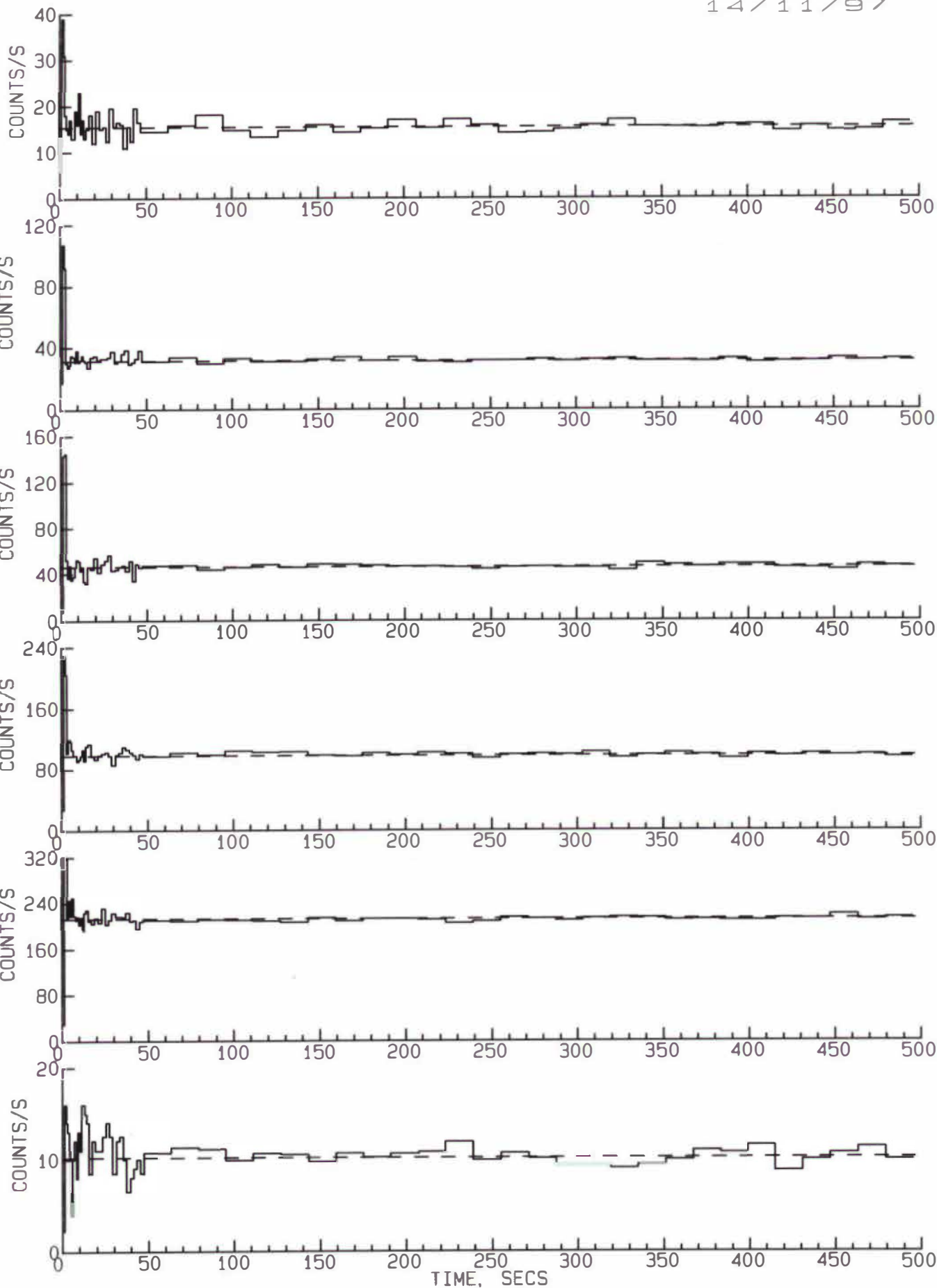
17- 44 keV

44- 70 keV

70- 97 keV

97-123 keV

123-141 keV



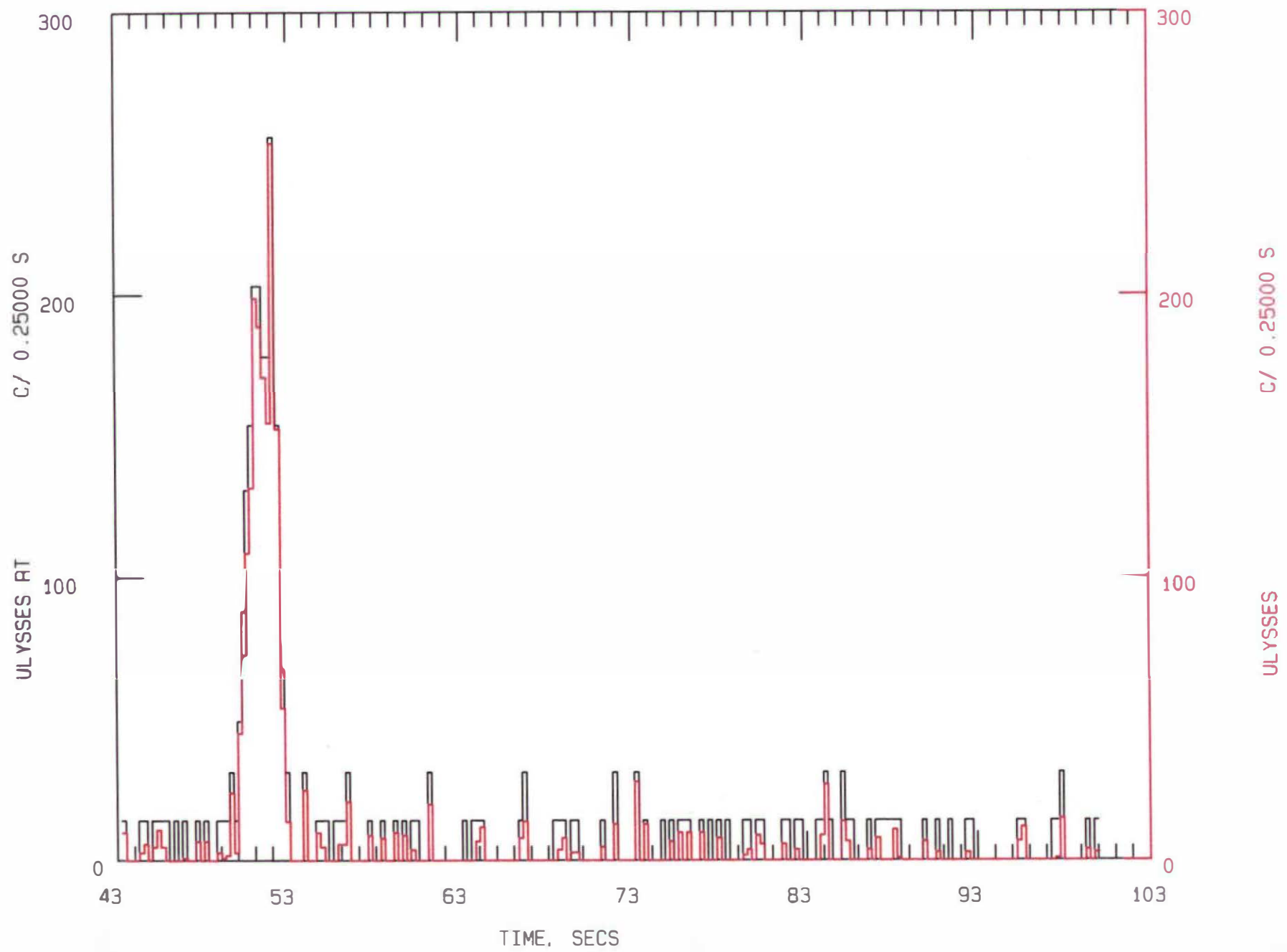
ULYSSES RT-ULYSSES

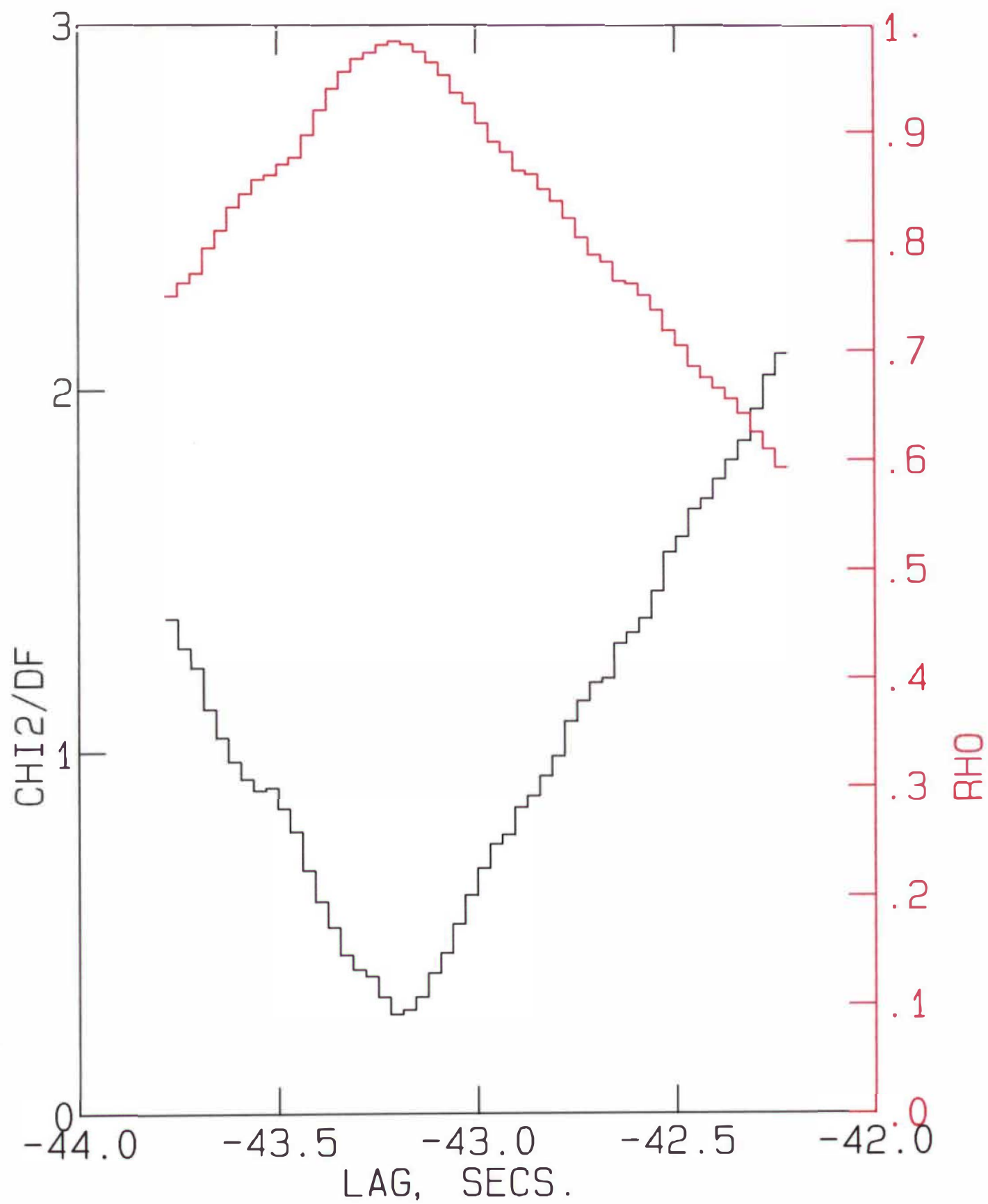
CORRELATION

4/ 7/95

11574.094

14/11/97





ULYSSES

04/07/95

Ttrig=11624.708

21- 141 keV

COUNTS/0.031 S

COUNTS/0.125 S

200

150

100

50

60

40

20

0

4

8

12

16

20

24

28

32

36

40

44

48

52

56

60

64

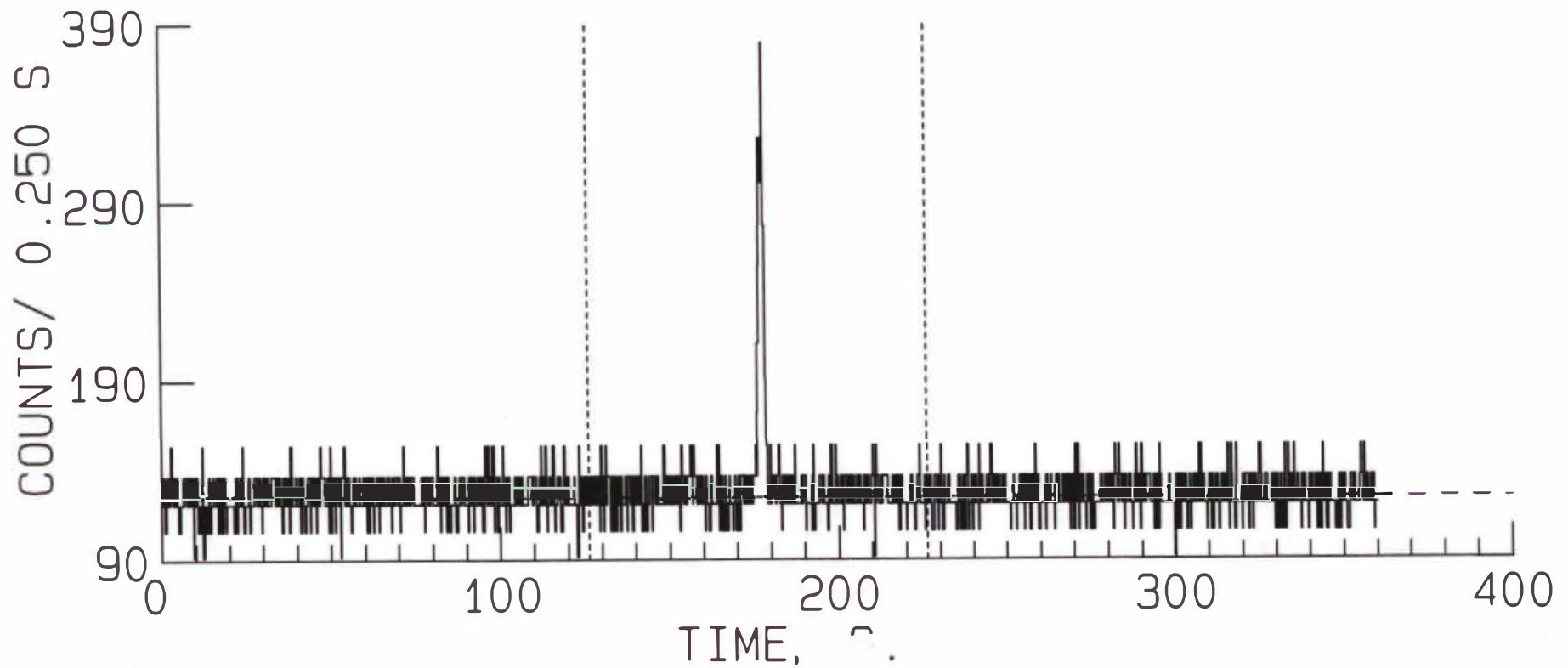
4

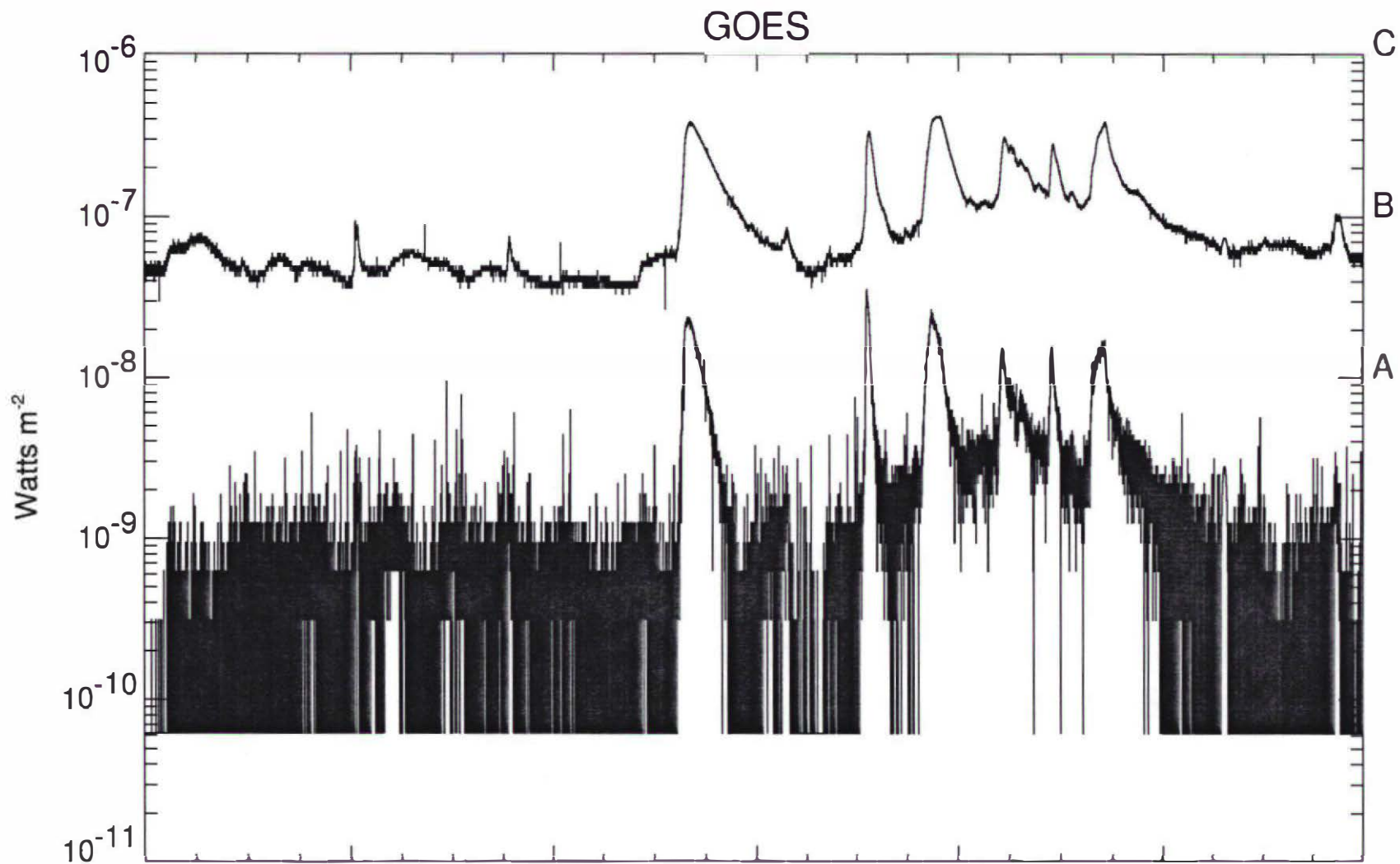
14/11**

ULYSSES RT
4/ 7/95 11448.052 s
21- 141 keV

14/11/97

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





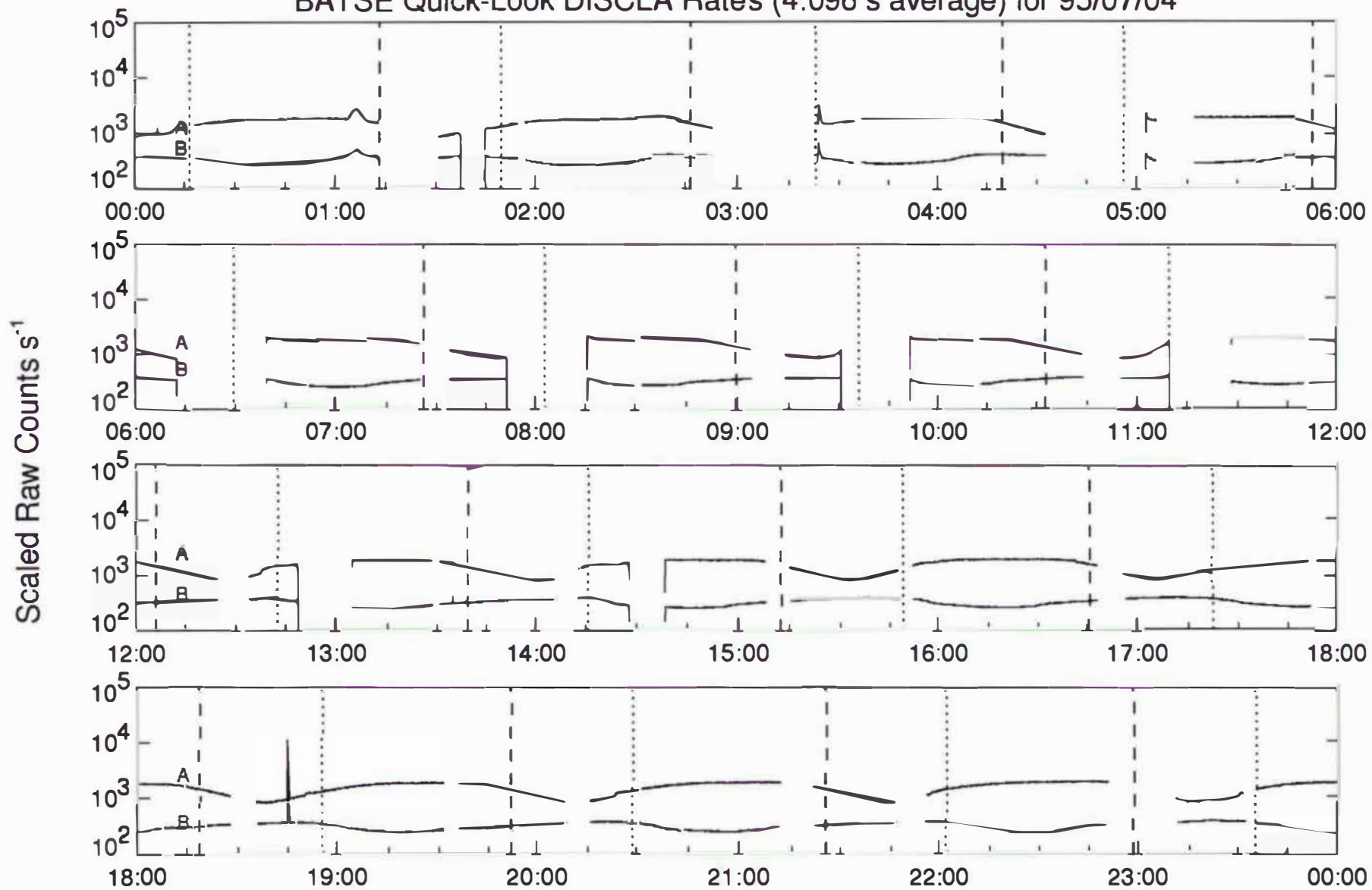
Data Start: 95/07/04, 0000:00

Plot created: 95/07/06, 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 95/07/04



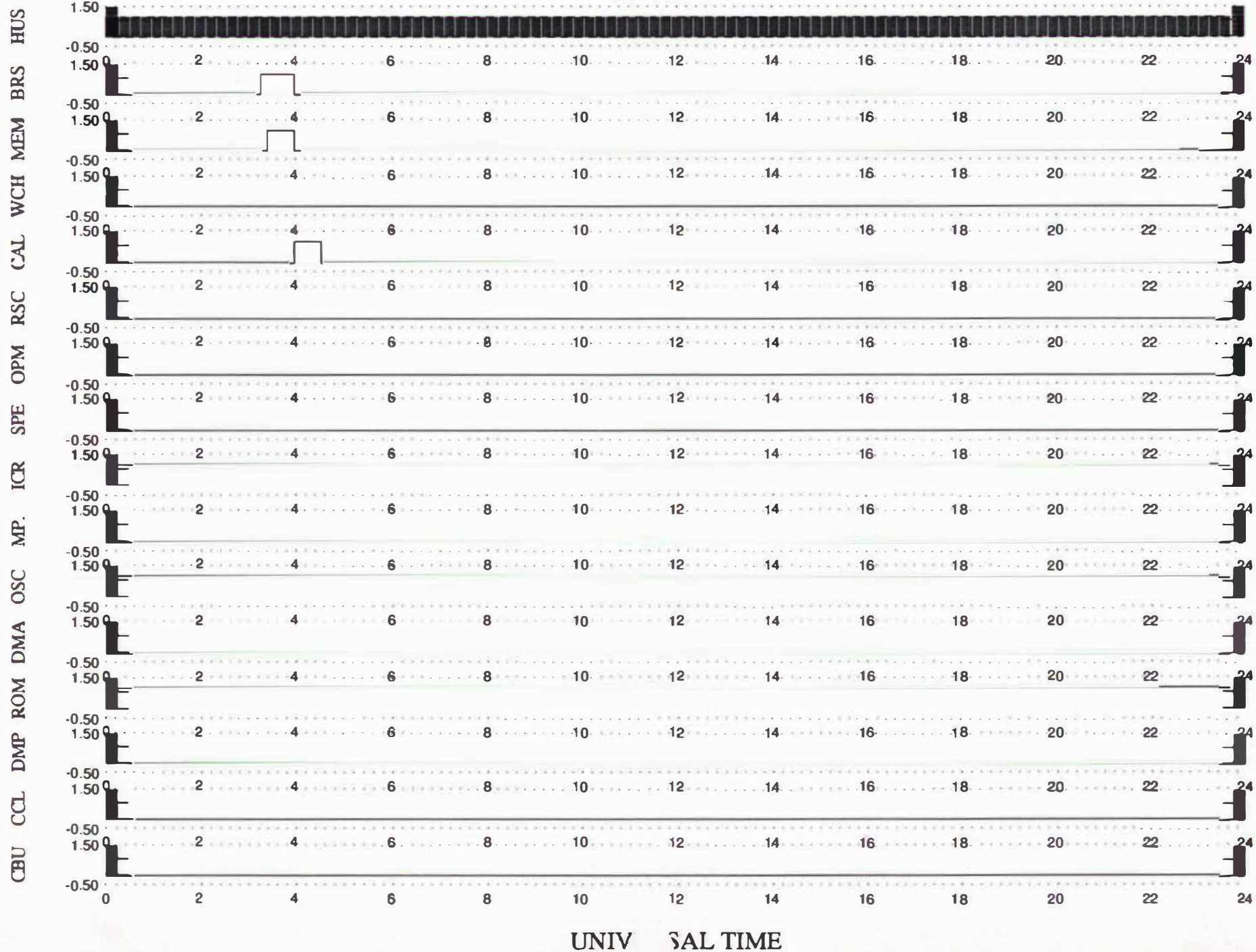
Current Time: 95/07/06, 1701 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

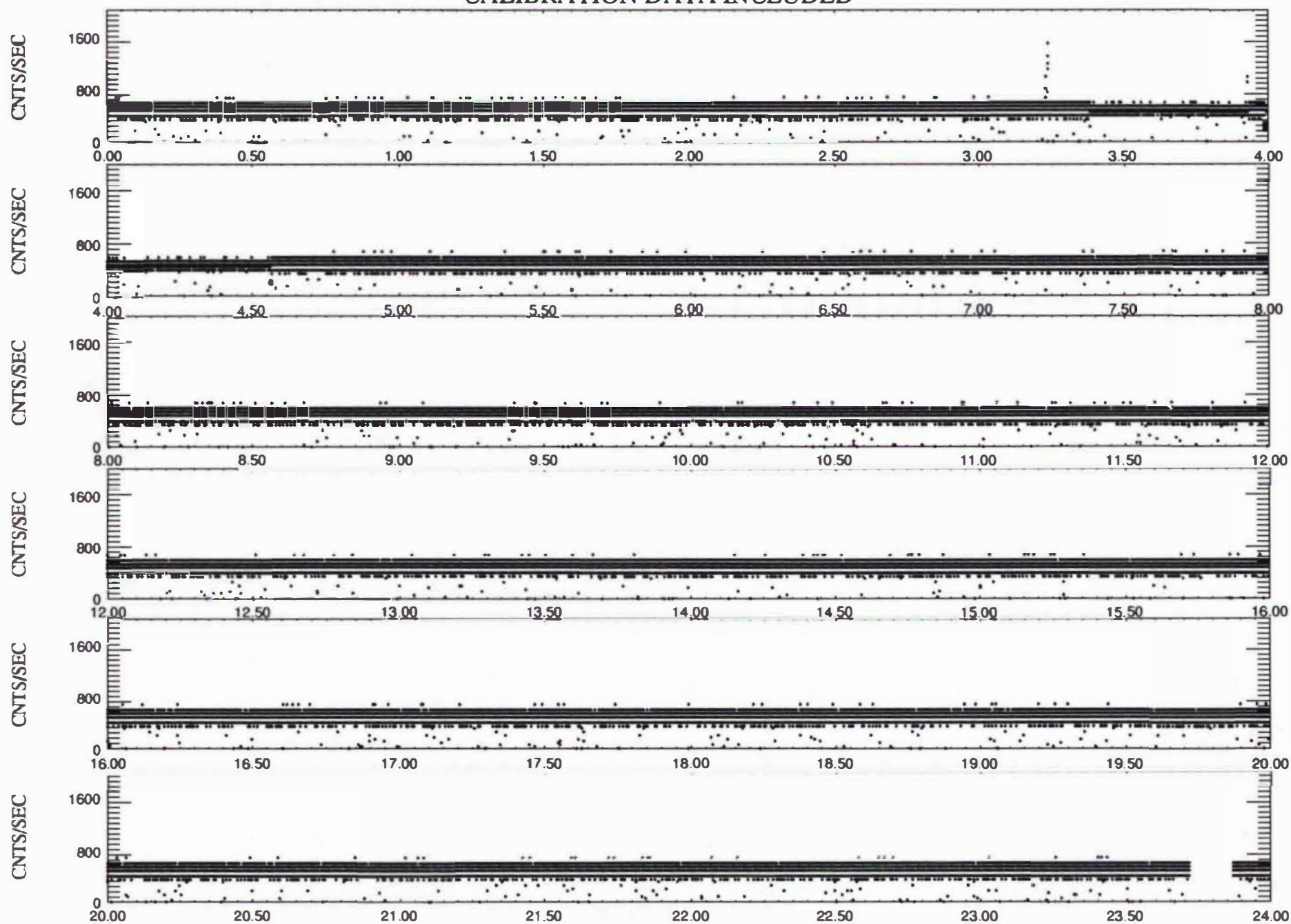
HUS MODES EDR day 185, year 1995 to day 185, year 1995
BURST NUMBER 5

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 185, year 1995 to day 185, year 1995
CALIBRATION DATA INCLUDED

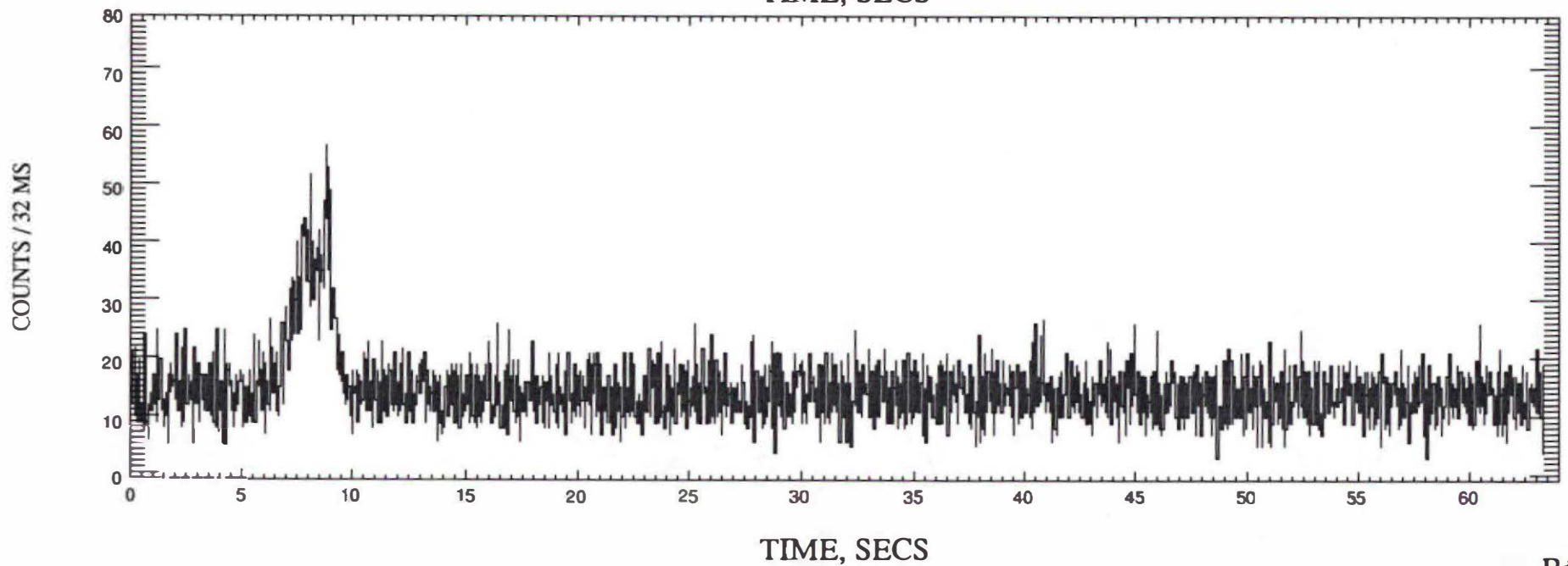
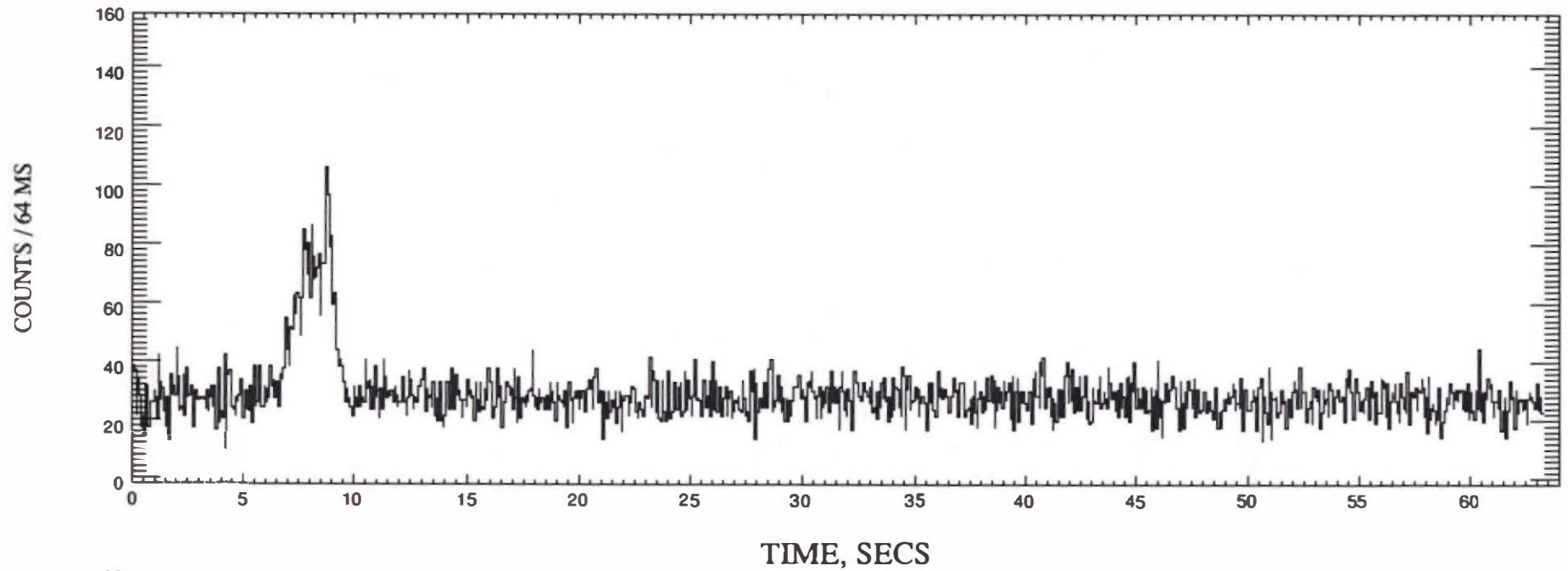
1/25/96

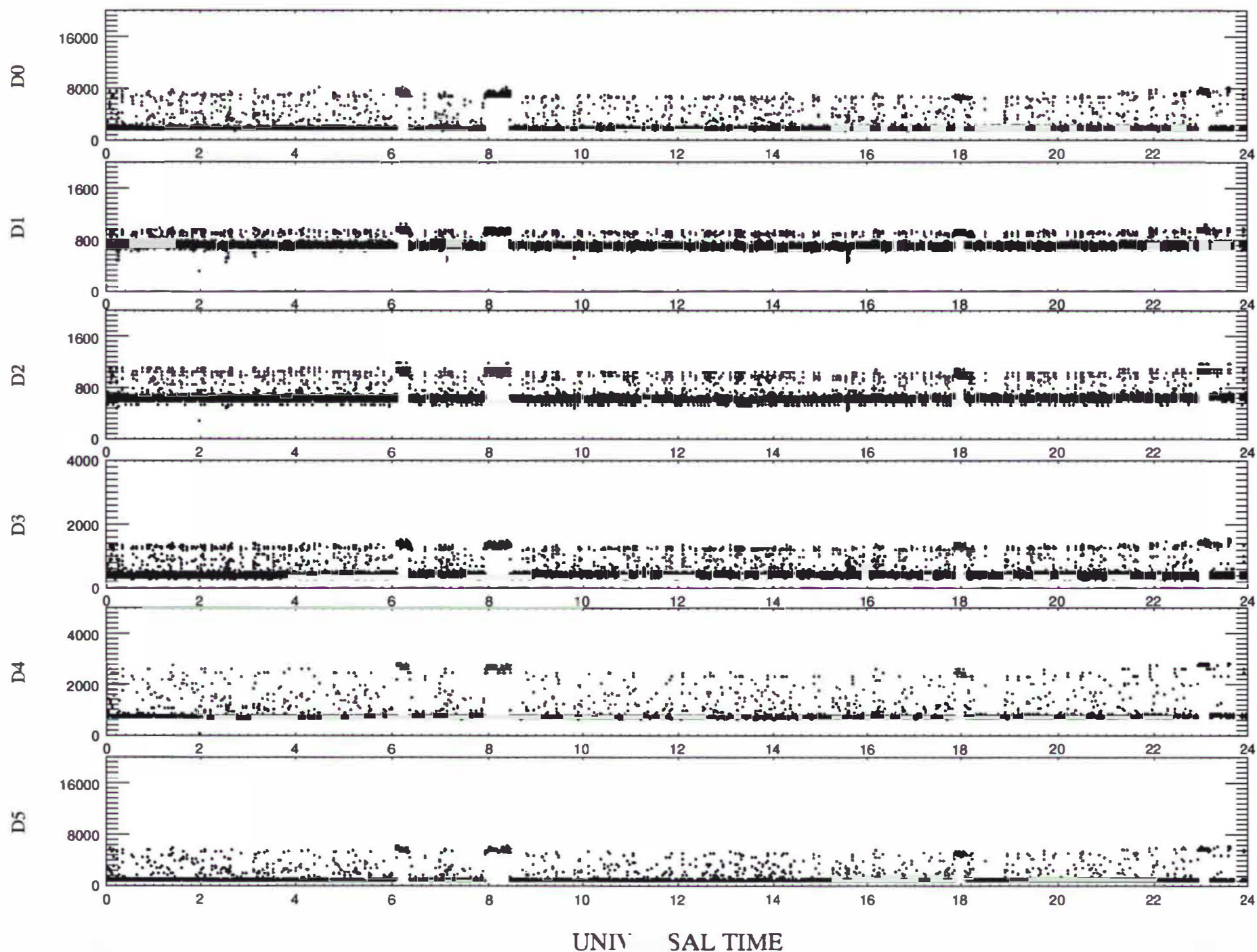


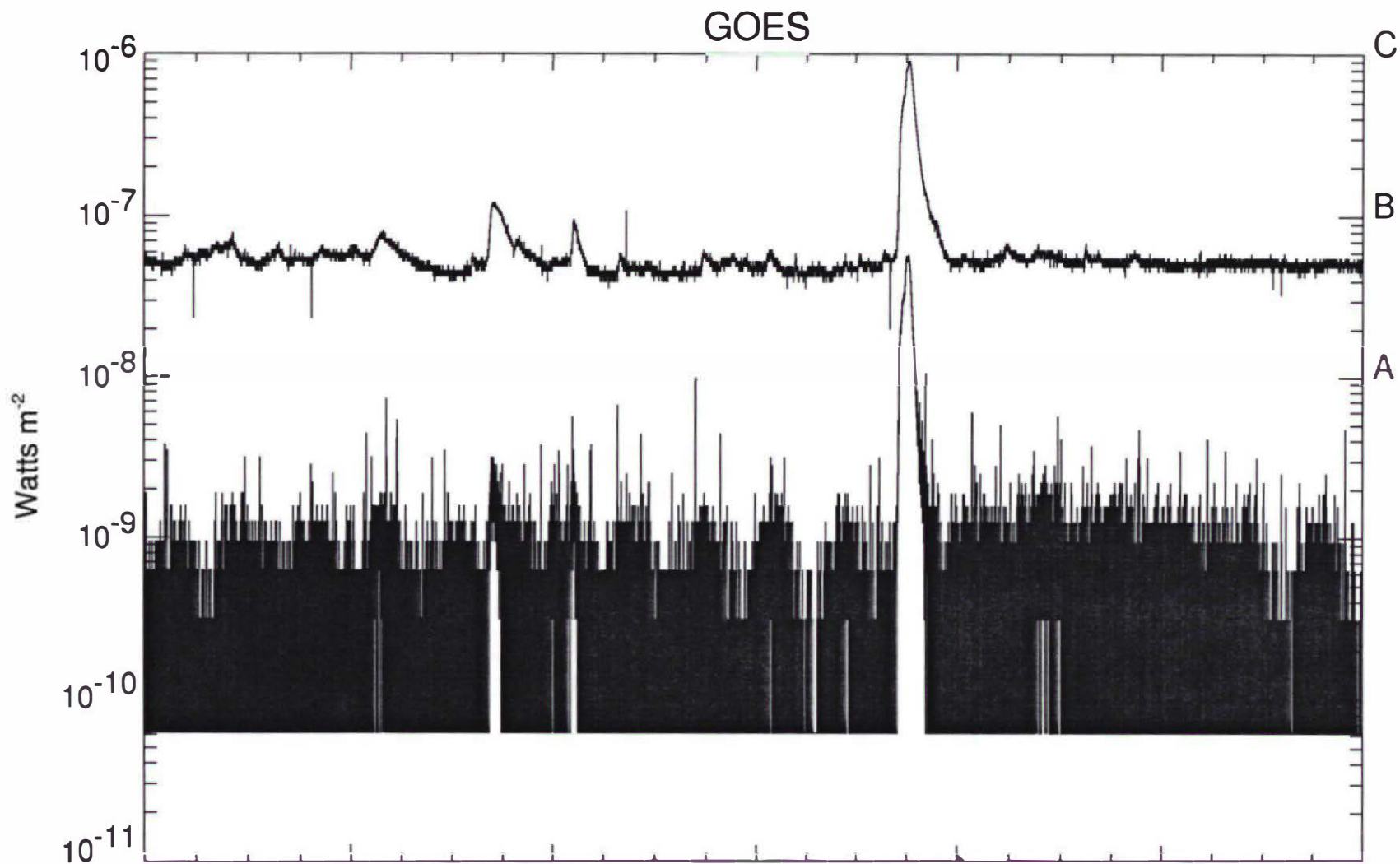
UNIV SAL TIME

HUS 2A TRIGGERED DATA EDR day 185, year 1995
Burst Counter 5 at UT= 3.229070621067 h=11624.654 s 03:13:44.654

1/25/96







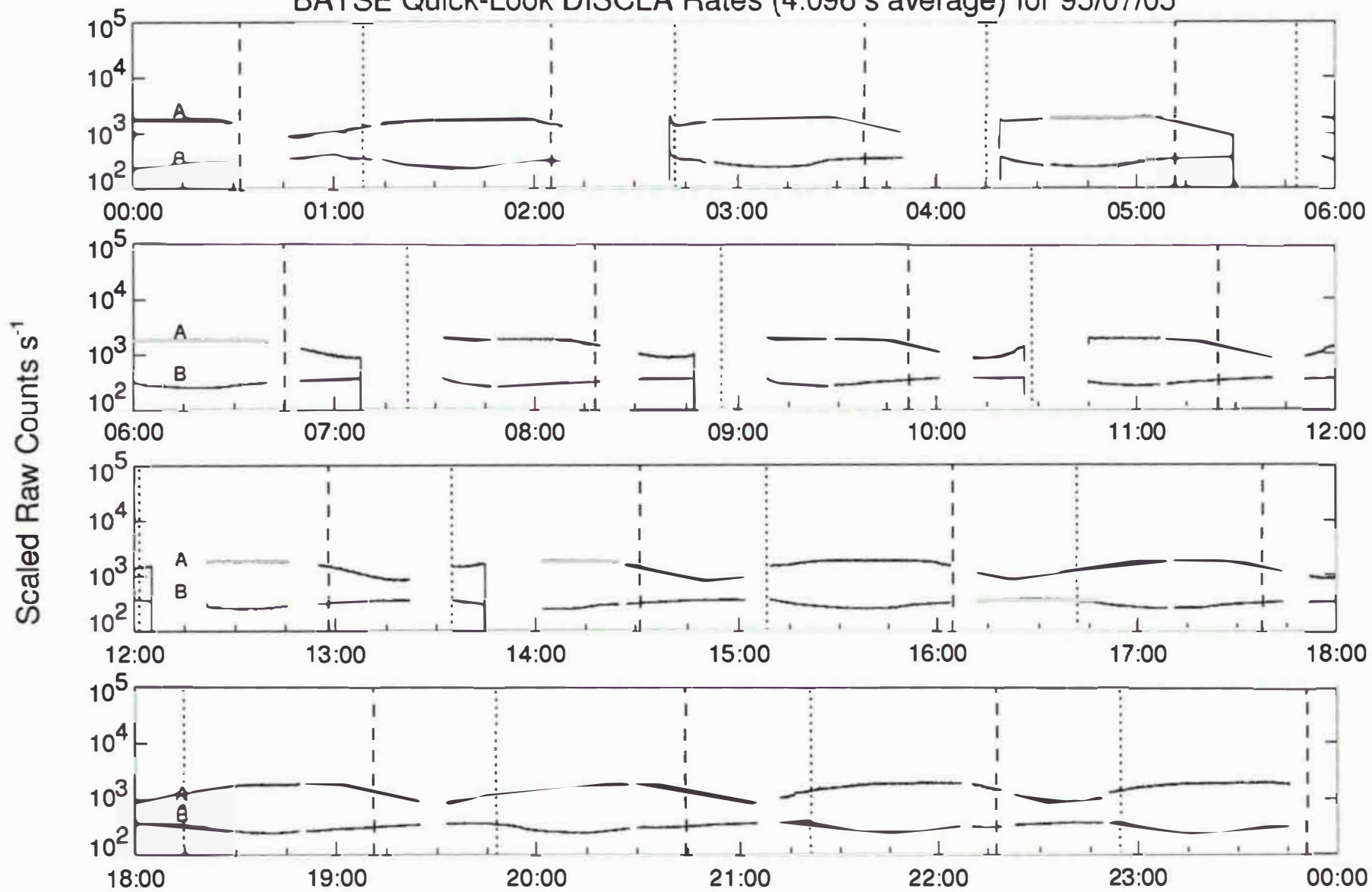
Data Start: 95/07/05, 0000:01

Plot created: 95/07/07, 1525

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 95/07/05



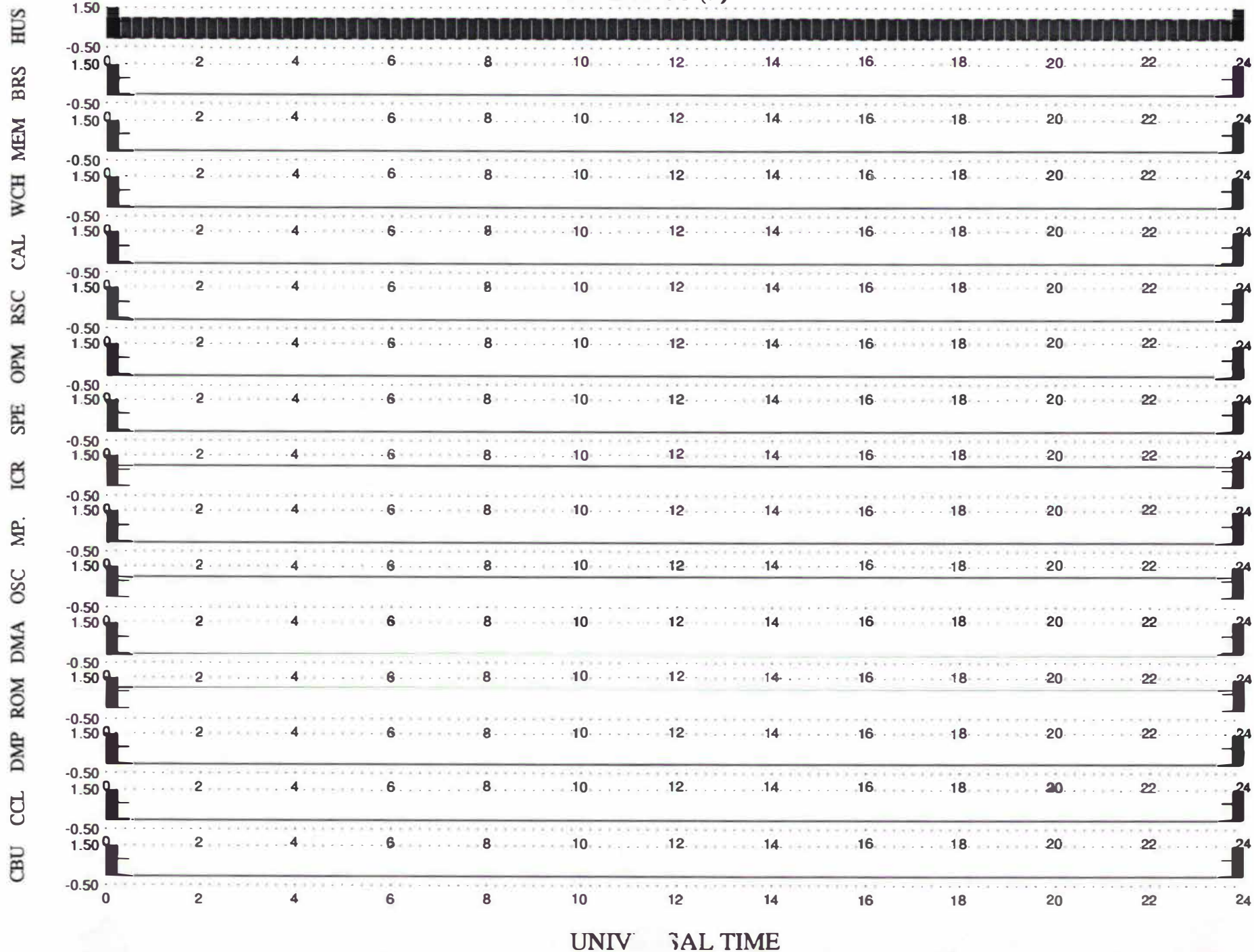
Current Time: 95/07/07, 1526 EDT
A: Channel 0 Most Sunward LAD
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

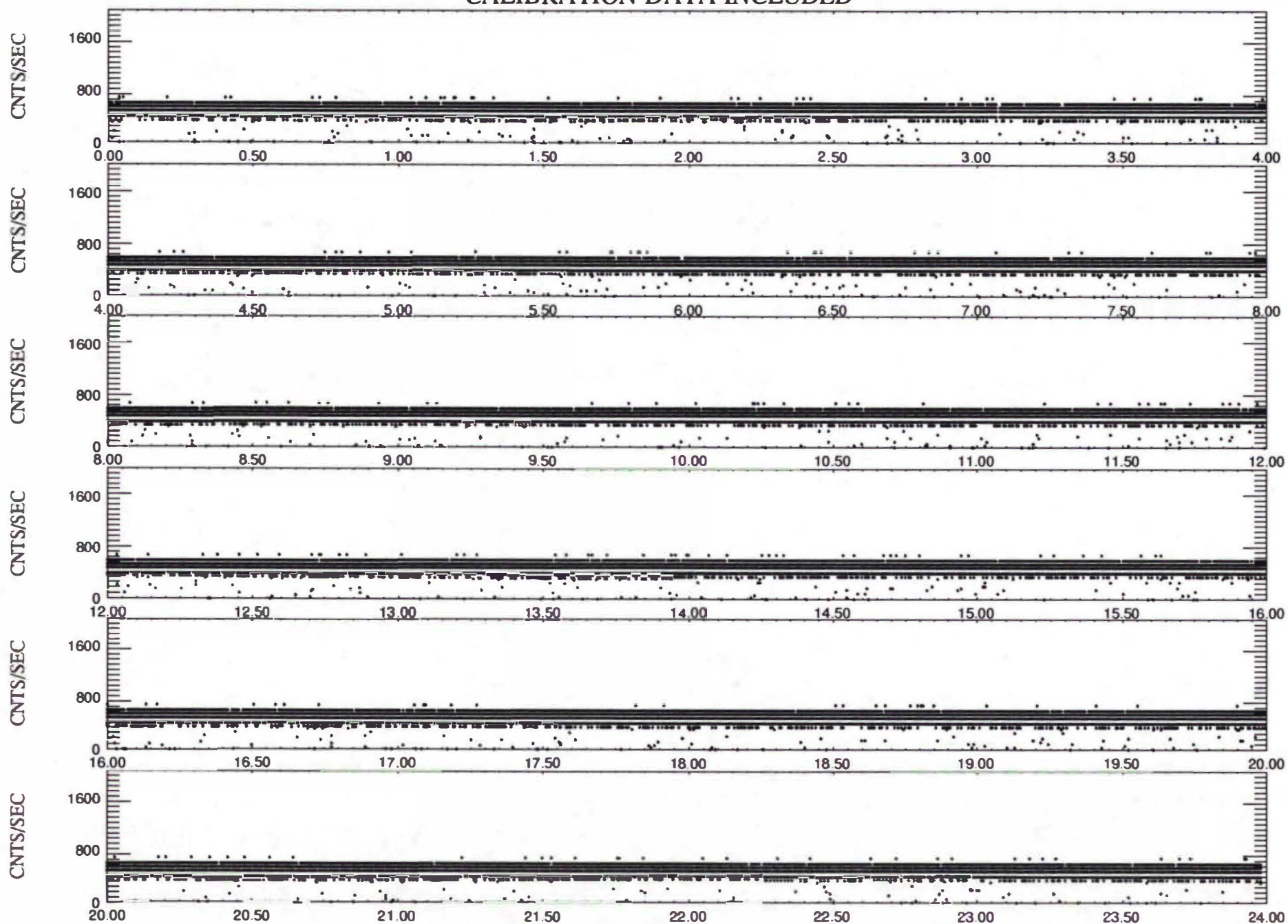
HUS MODES EDR day 186, year 1995 to day 186, year 1995 NO BURST (5)

1/25/96

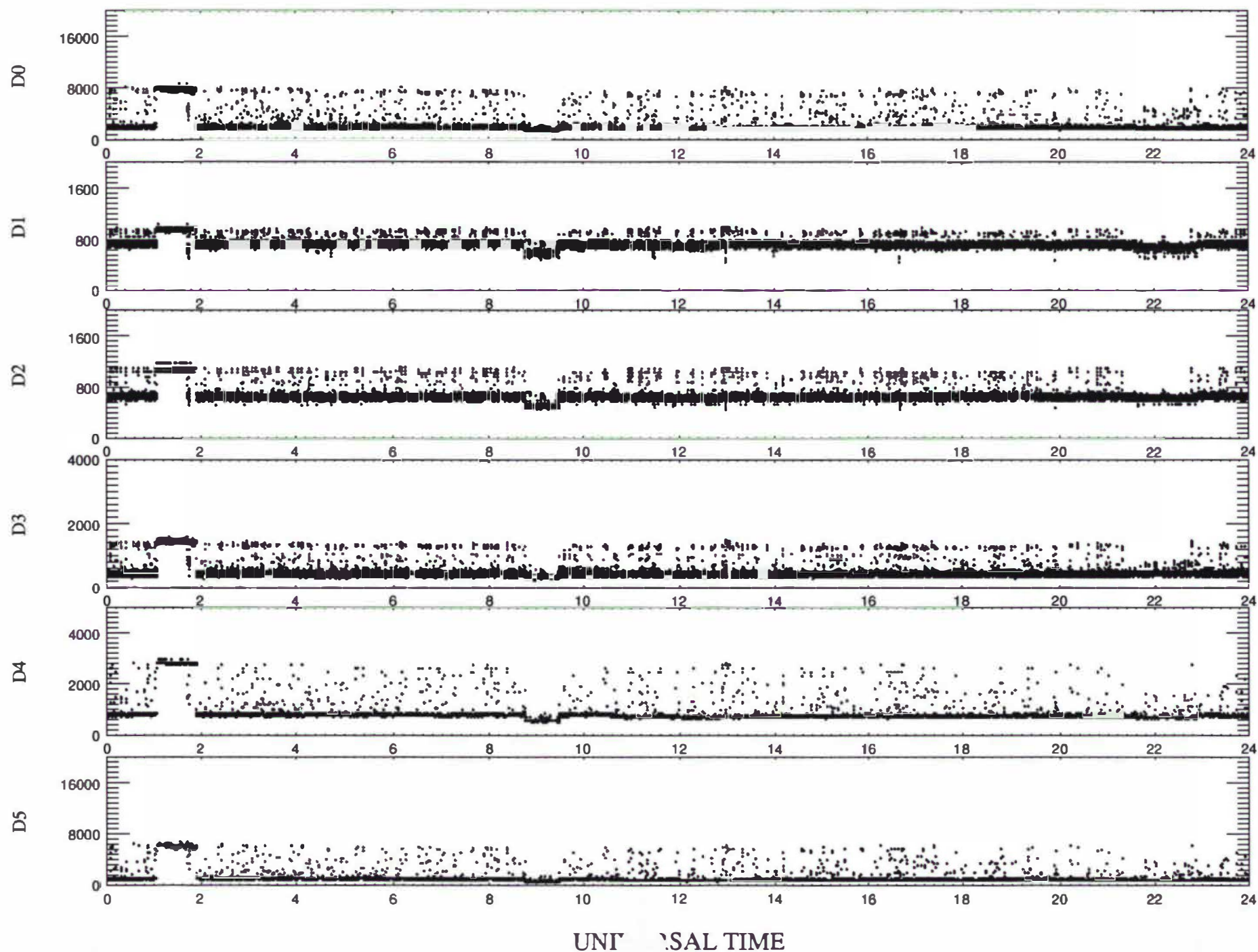


HUS 2A, MODE 1, NOT AVERAGED EDR day 186, year 1995 to day 186, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV SAL TIME



From DEAL@ssl.msfc.nasa.gov Mon Jul 10 09:32 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Mon, 10 Jul 1995 11:32:01 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3662

RI

BATSEARCH PROGRAM

BATSE BURST # 3662
EVENT OF 1995 JUL 6 DAY OF YEAR=187
EVENT CROSSING TIME AT BATSE : 42735. S. OR 11:52:15.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 29.000 32.000
BATSE PEAK COUNTING RATE: 10500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 6/ 7/ 95 IS:
RA= 38.739 DEC= 76.149 DIST= 2.083 AU
BATSE-ULYSSES DISTANCE = 311647430. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=135.61 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -742.86 SECS.
CROSSING TIME AT ULYSSES IS 41992. S. OR 11:39:52 +/- 164.97 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 6/ 7/ 95 IS:
RA= 172.132 DEC= 4.130 DIST= 1.687 AU
MARS-BATSE DISTANCE = 252326384. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 50.32 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 537.43 SECS.
CROSSING TIME AT MARS IS 43272. S. OR 12:01:12 +/- 120.62 SECONDS

BATSE BURST TRIGGER

NO.: 3662

TIME: TJD=9904 SECONDS=42735

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=150.0 AZIMUTH=145.5 ERROR= DEGREES

COMMENTS:

BURST WITH THREE PULSES, LASTING ~ 75 S. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3662	950706	9904	42735	10500	029	+32	75

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 17 '98

Helio corr removed

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

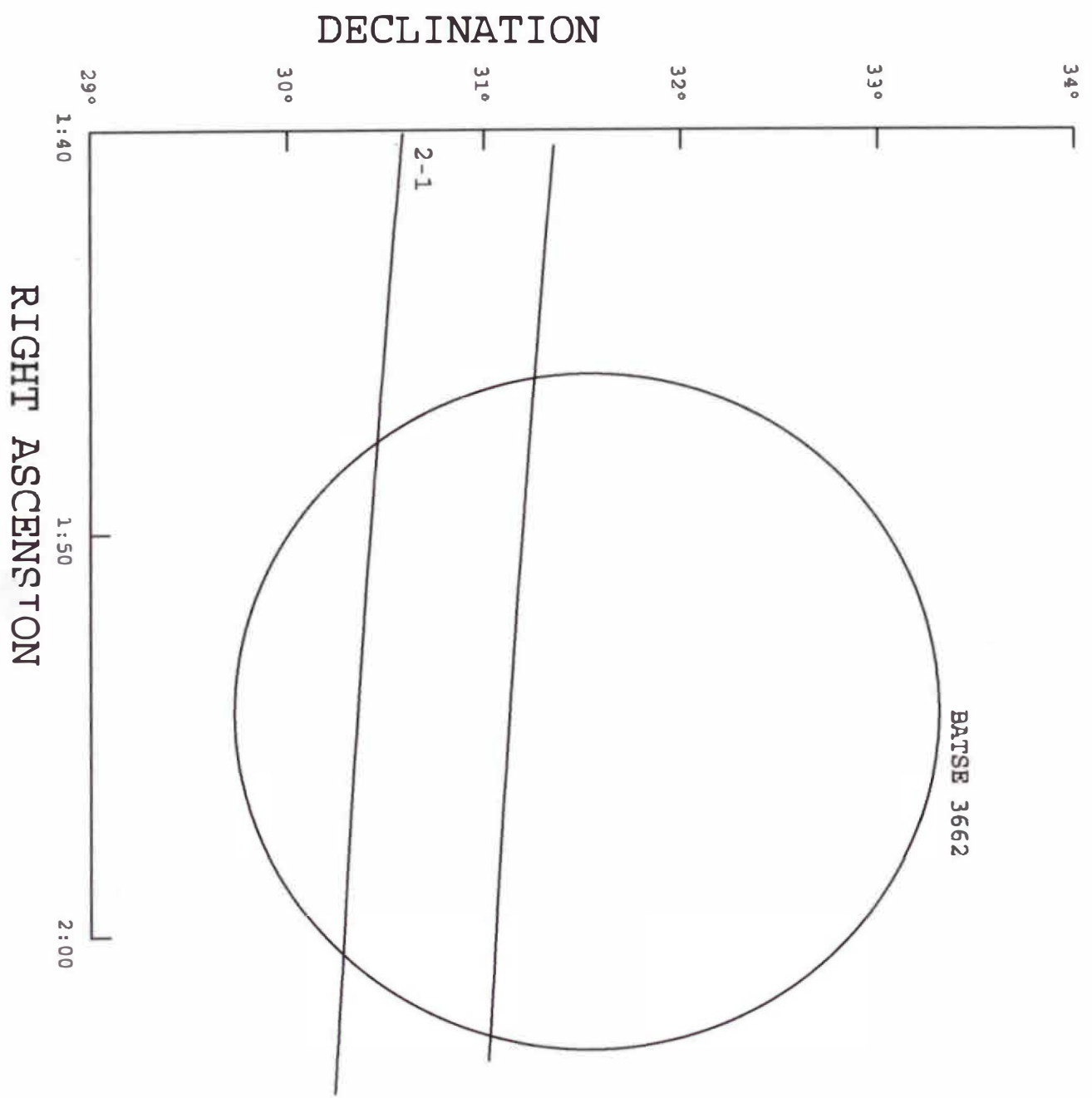
3. PVO Data

- ☐ 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 JUL 6, 1995 11:38

17/ 2/98



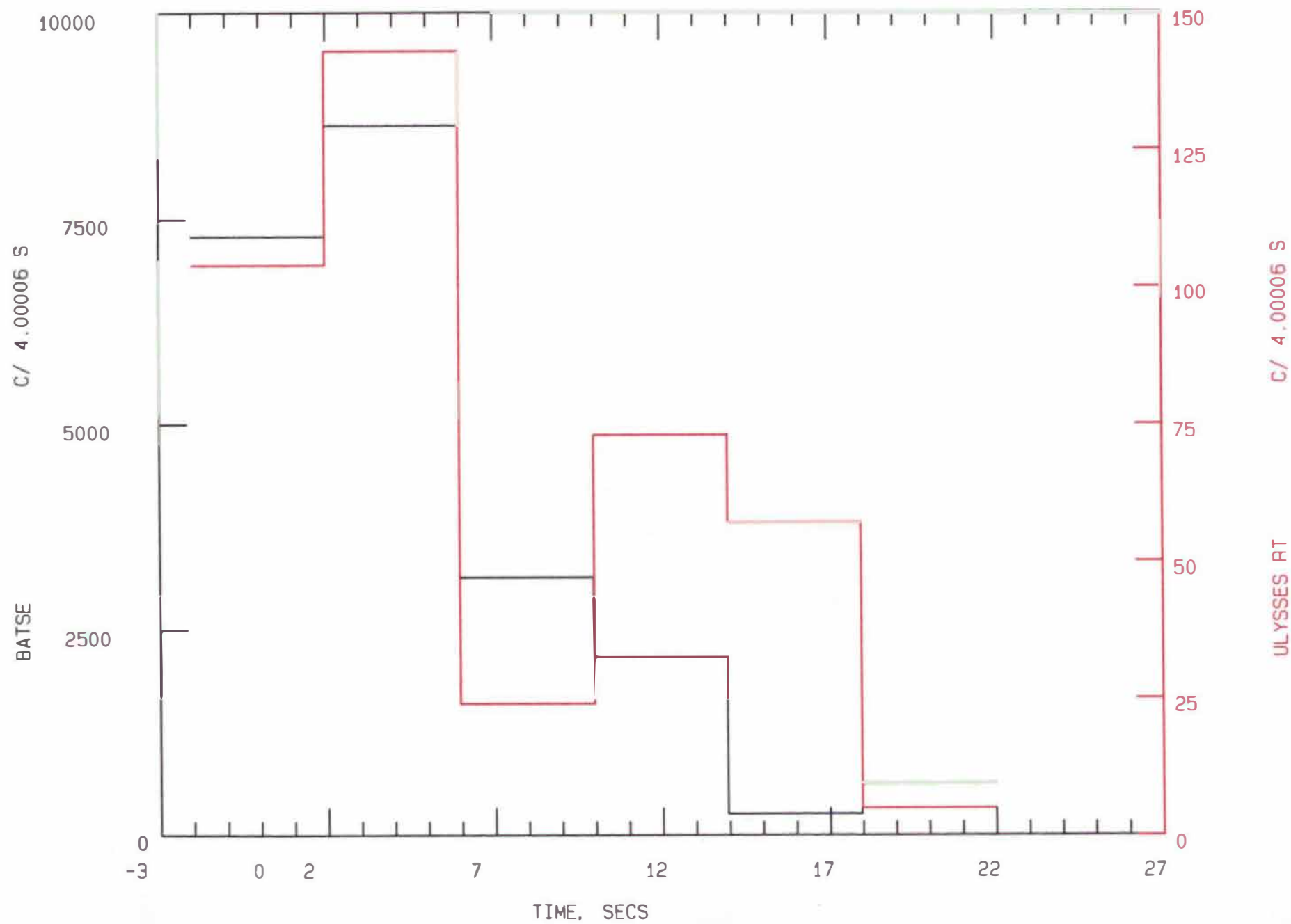
BATSE

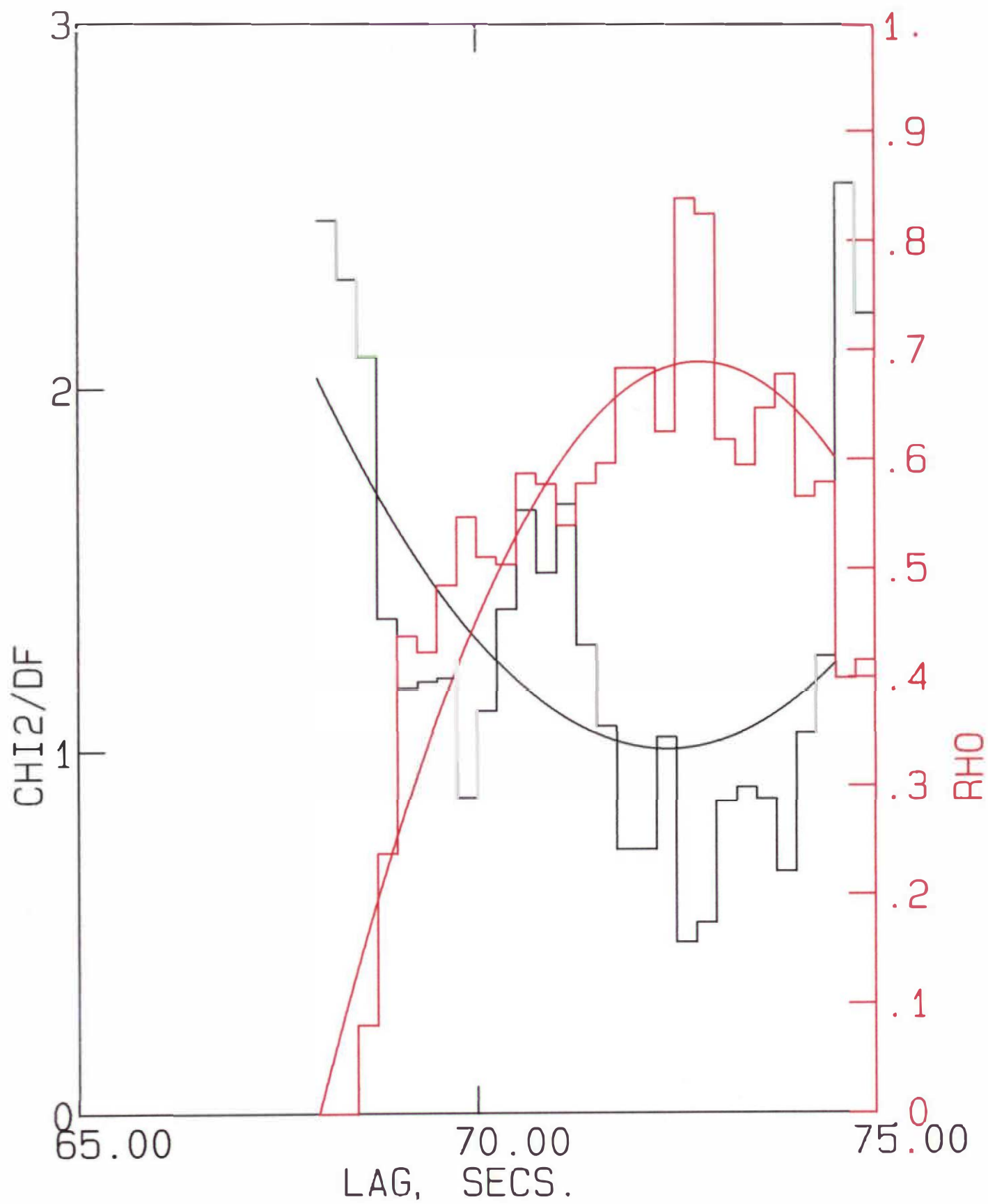
-ULYSSES RT CORRELATION

6/ 7/95

42735.538

17/ 2/98





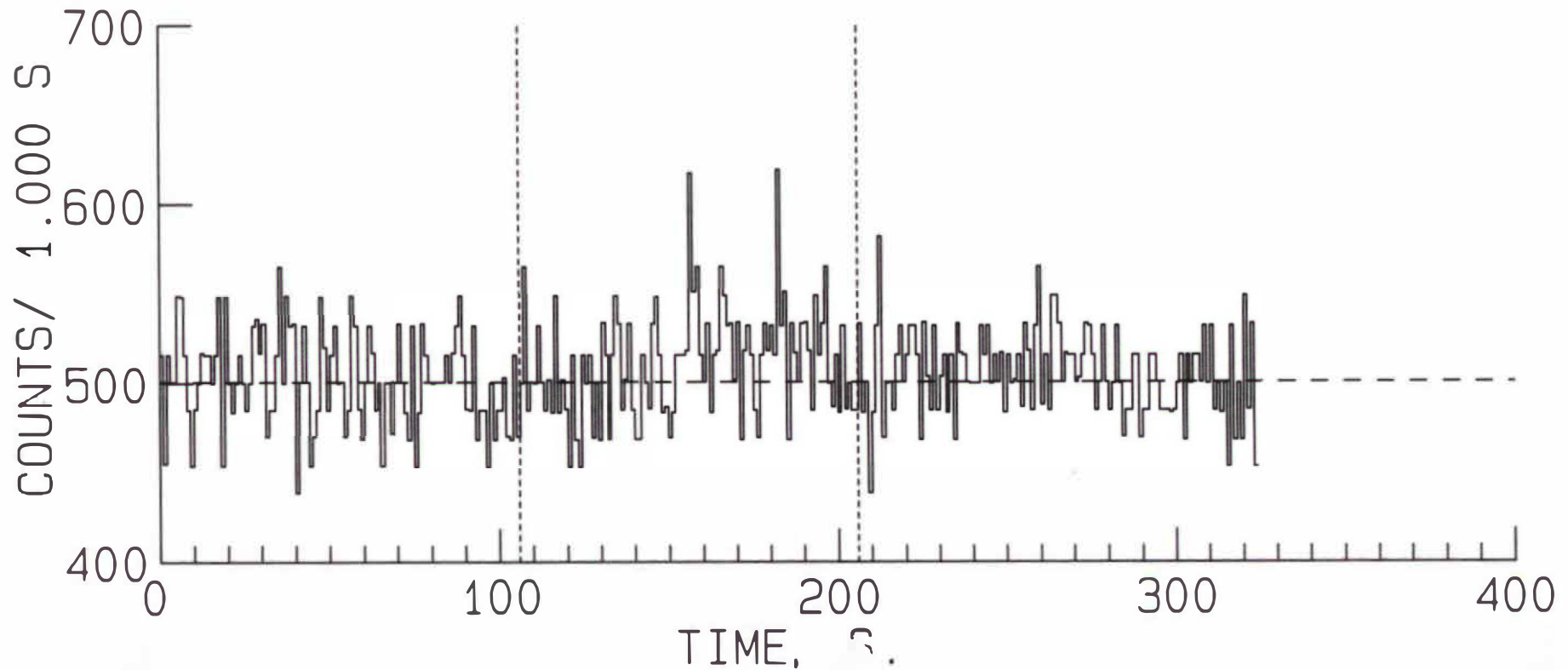
ULYSSES RT

17 / 2 / 98

6 / 7 / 95 41832.143 s

0.250 S INTERVALS REGROUPED BY 4
21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



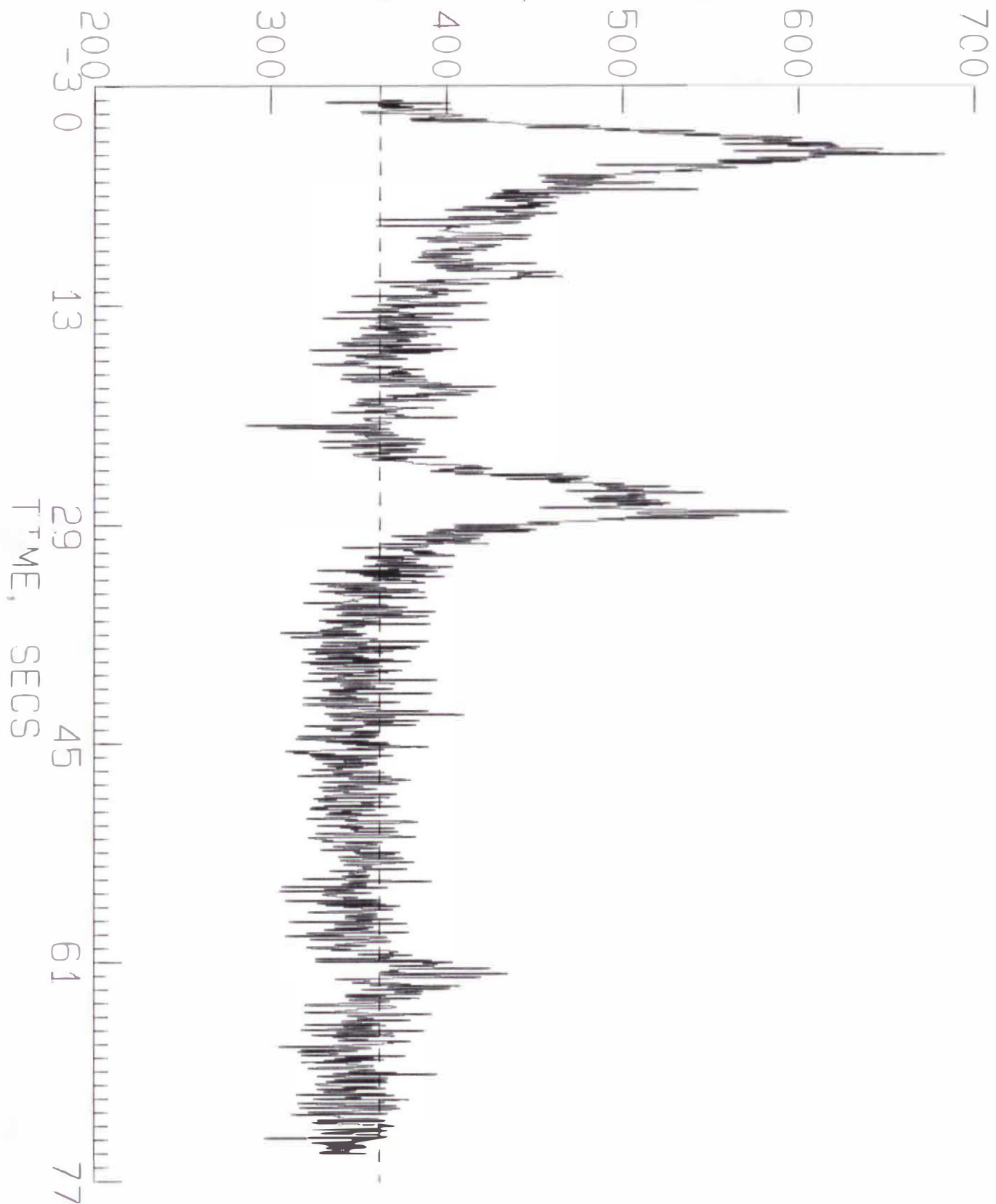
BATSE

06/07/95

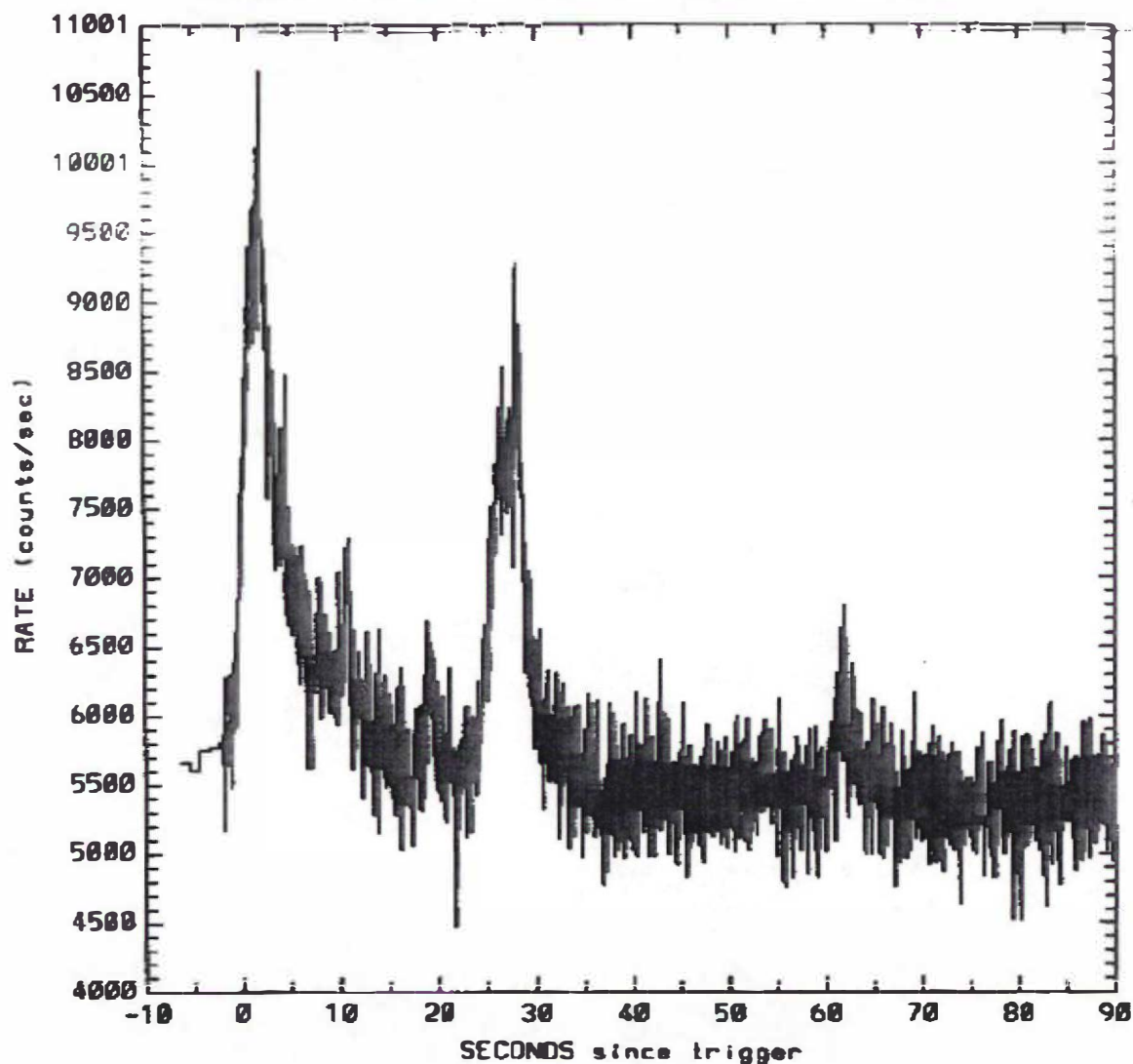
42735.538

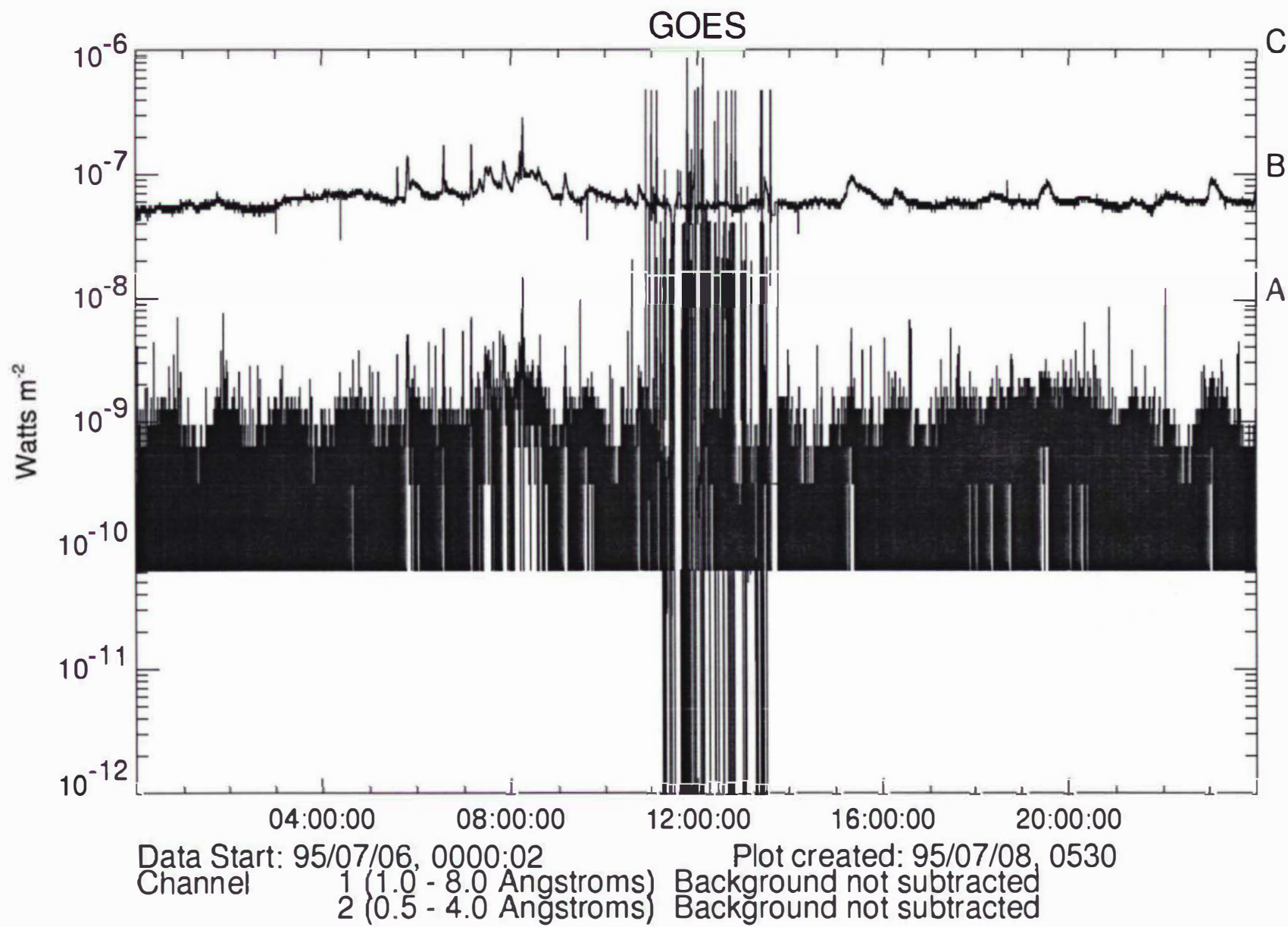
25- 100 keV

COUNTS/ .064 S

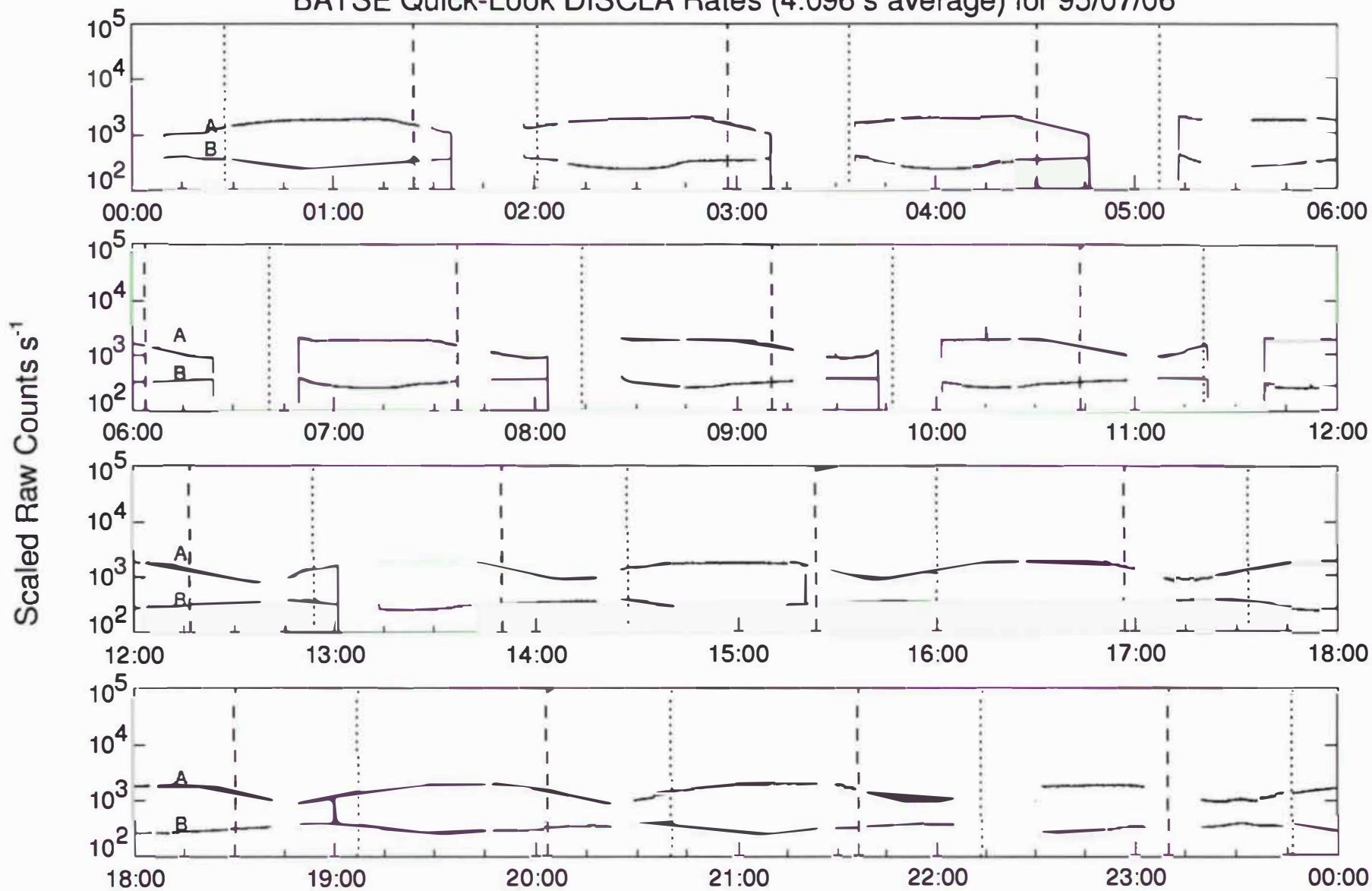


DISCSC Data for K. Hurley, No. 3662





BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/06

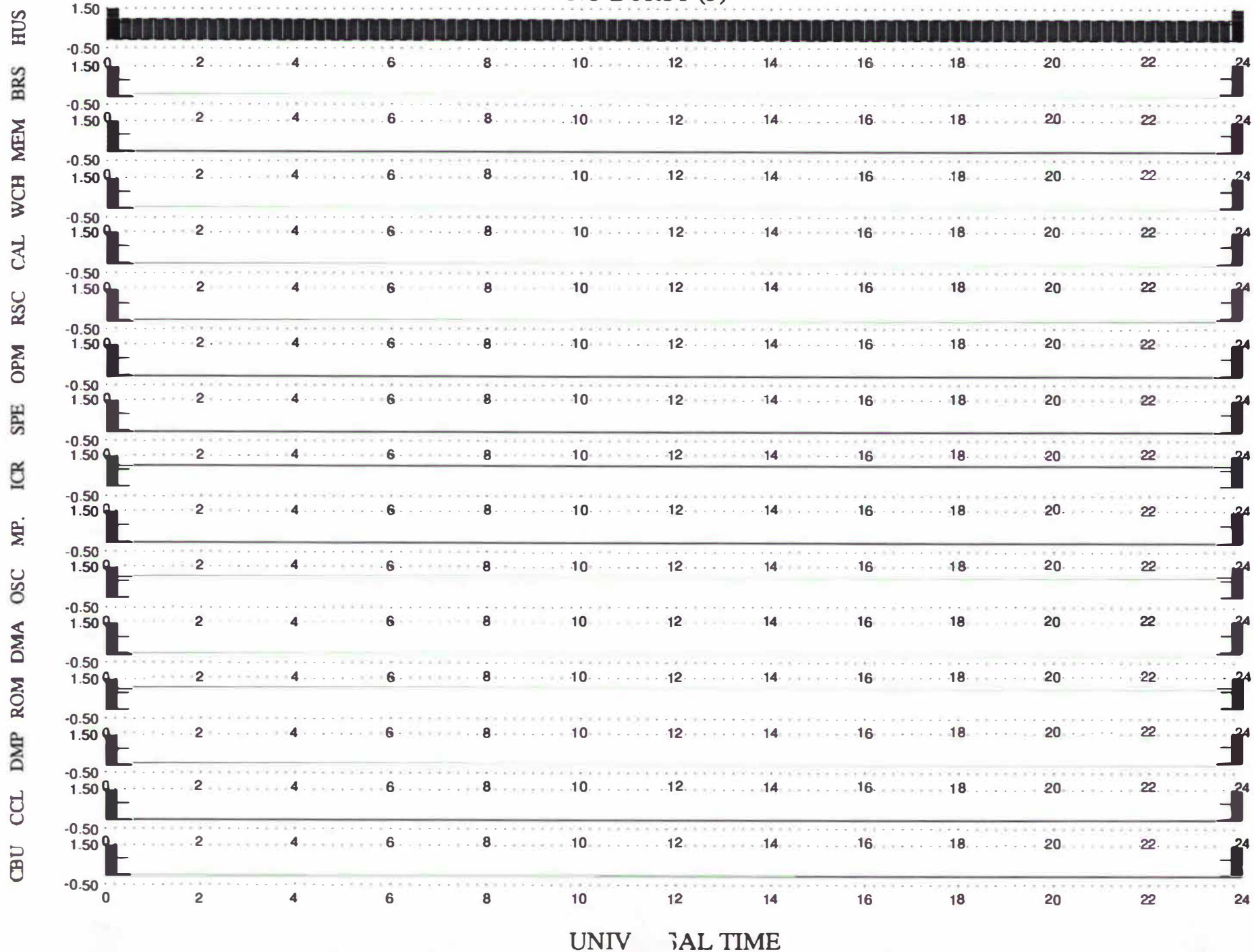


Current Time: 95/07/08, 0531 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

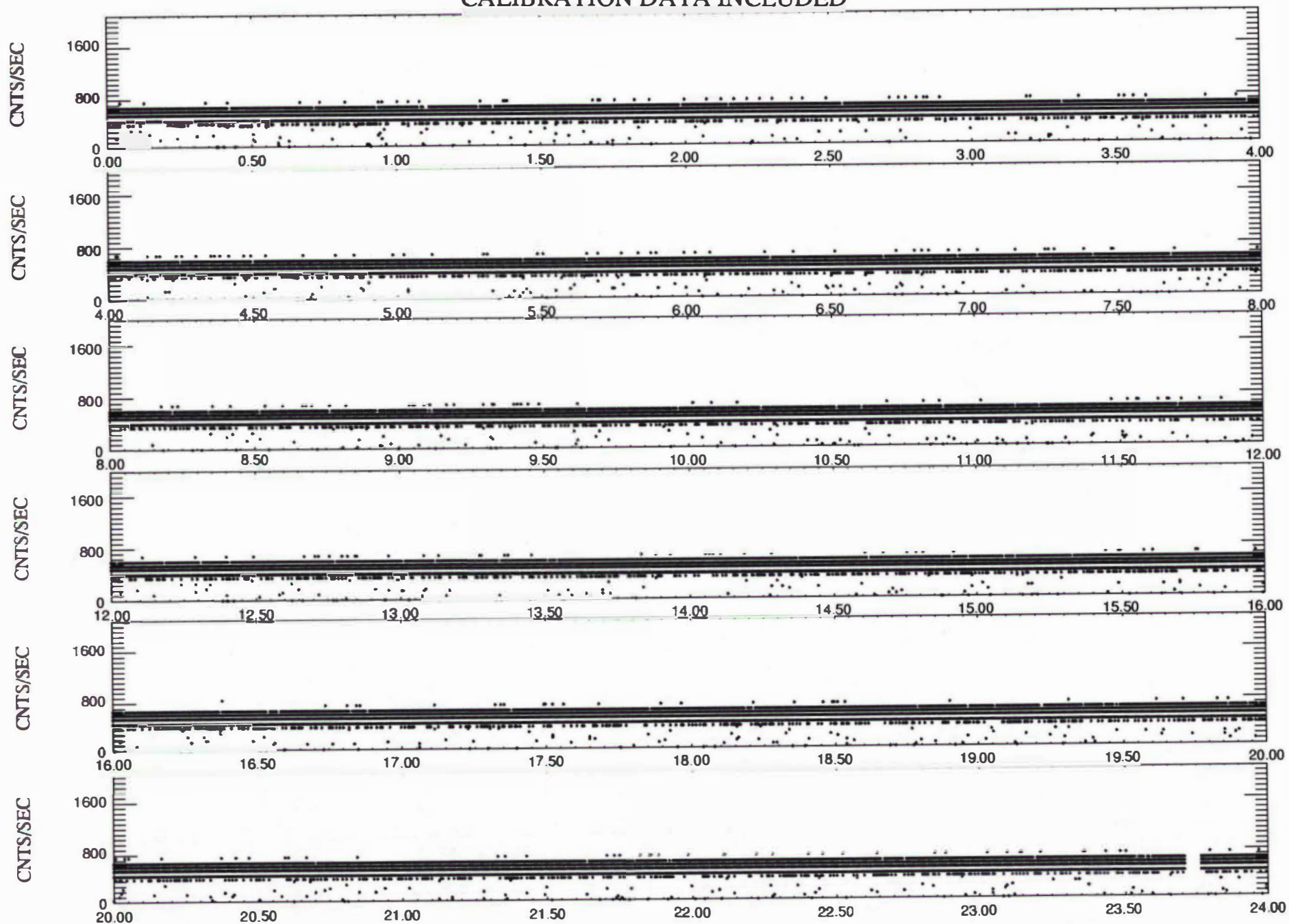
* Solar Burst Trigger
 + Solar Flare

1/25/96

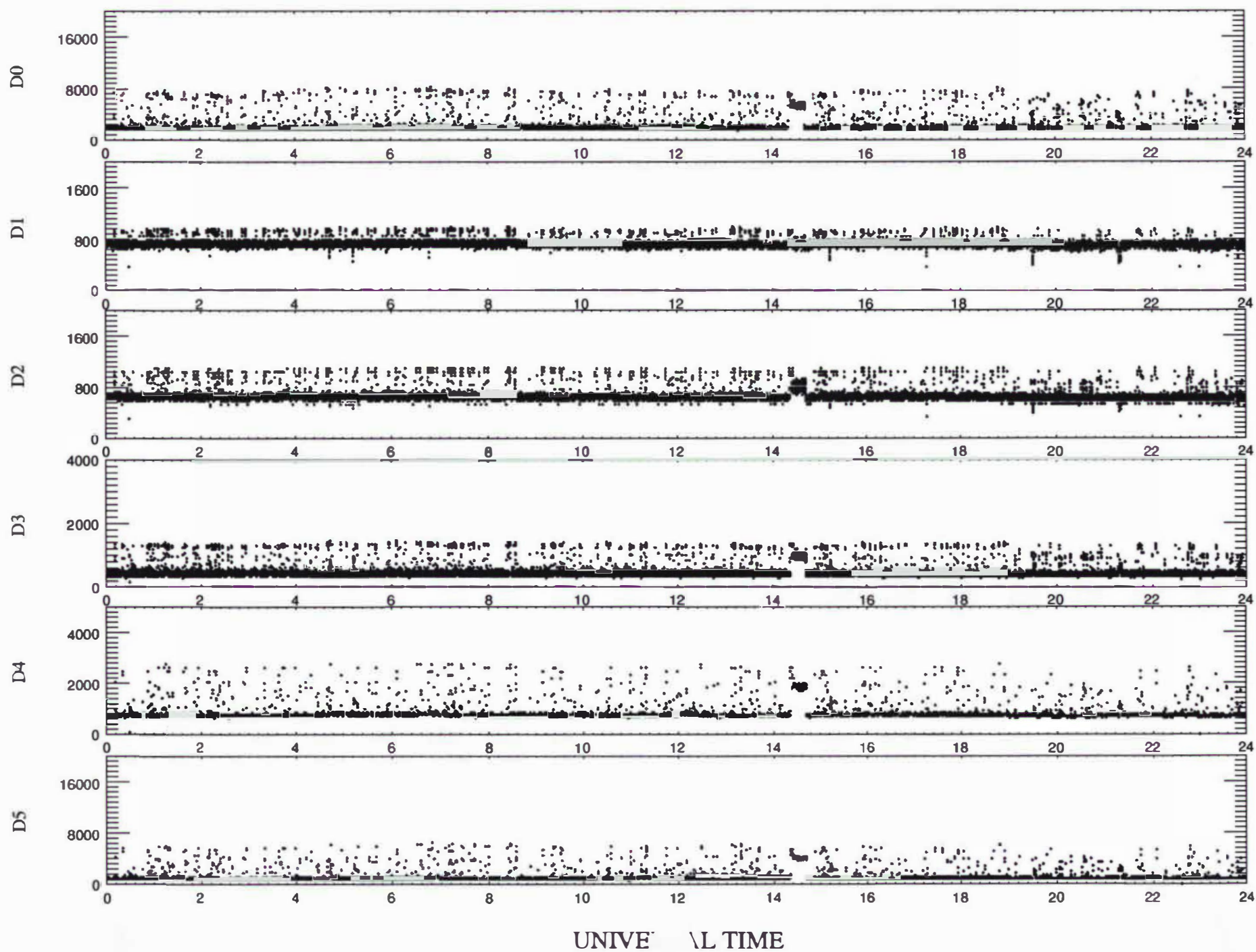


HUS 2A, MODE 1, NOT AVERAGED EDR day 187, year 1995 to day 187, year 1995
CALIBRATION DATA INCLUDED

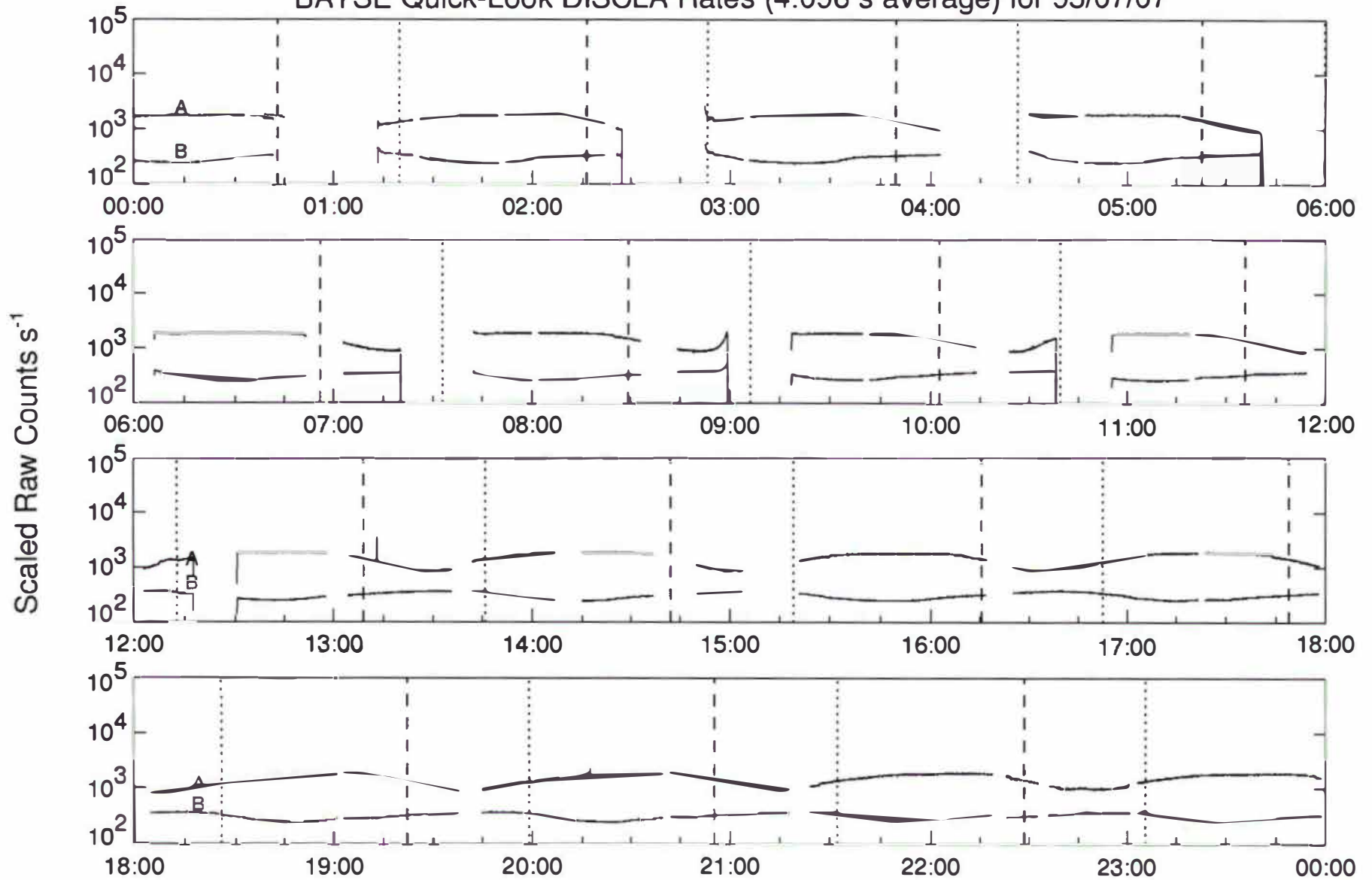
1/25/96



UNIV SAL TIME



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



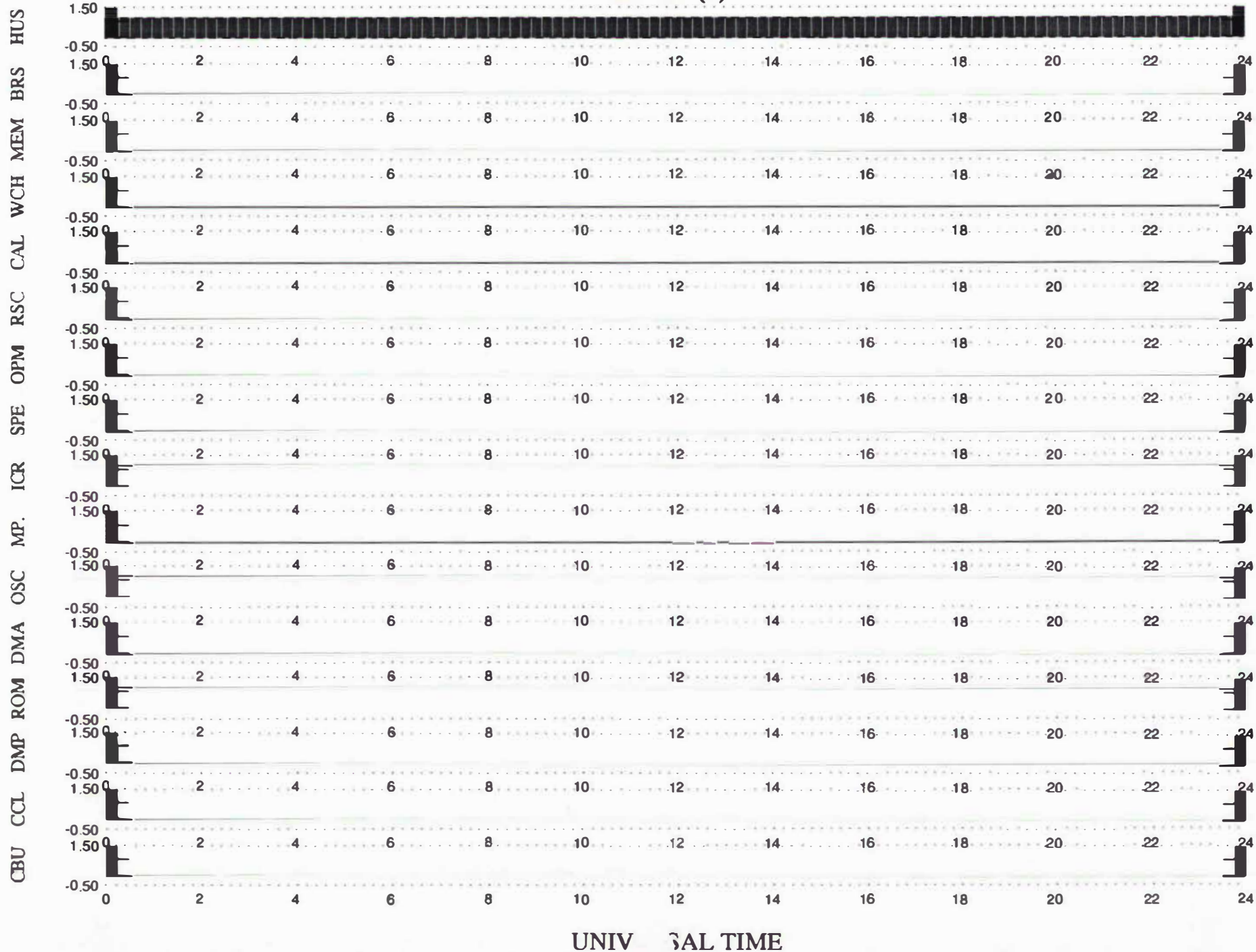
Current Time: 95/07/09, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

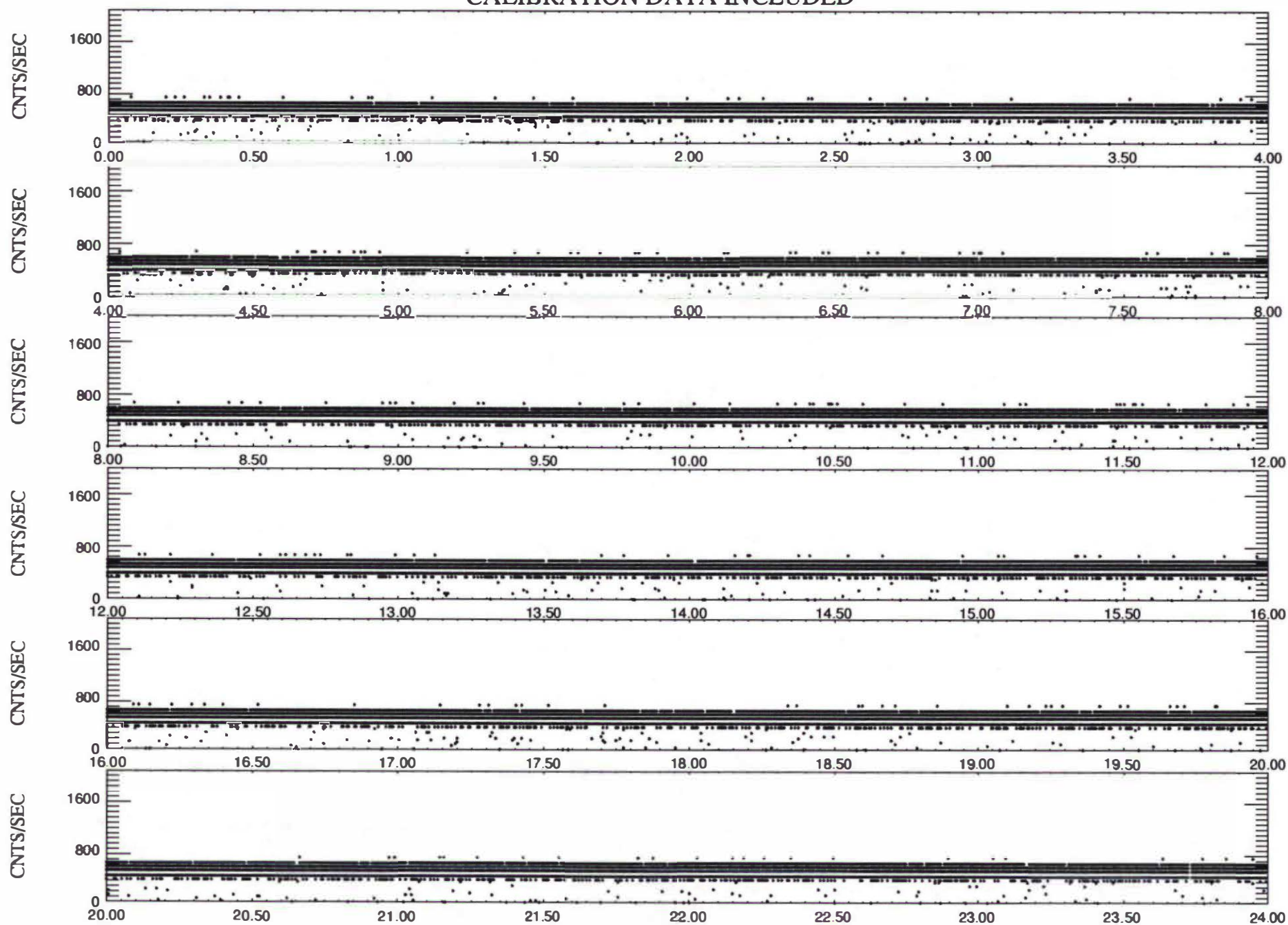
HUS MODES EDR day 188, year 1995 to day 188, year 1995 NO BURST (5)

1/25/96

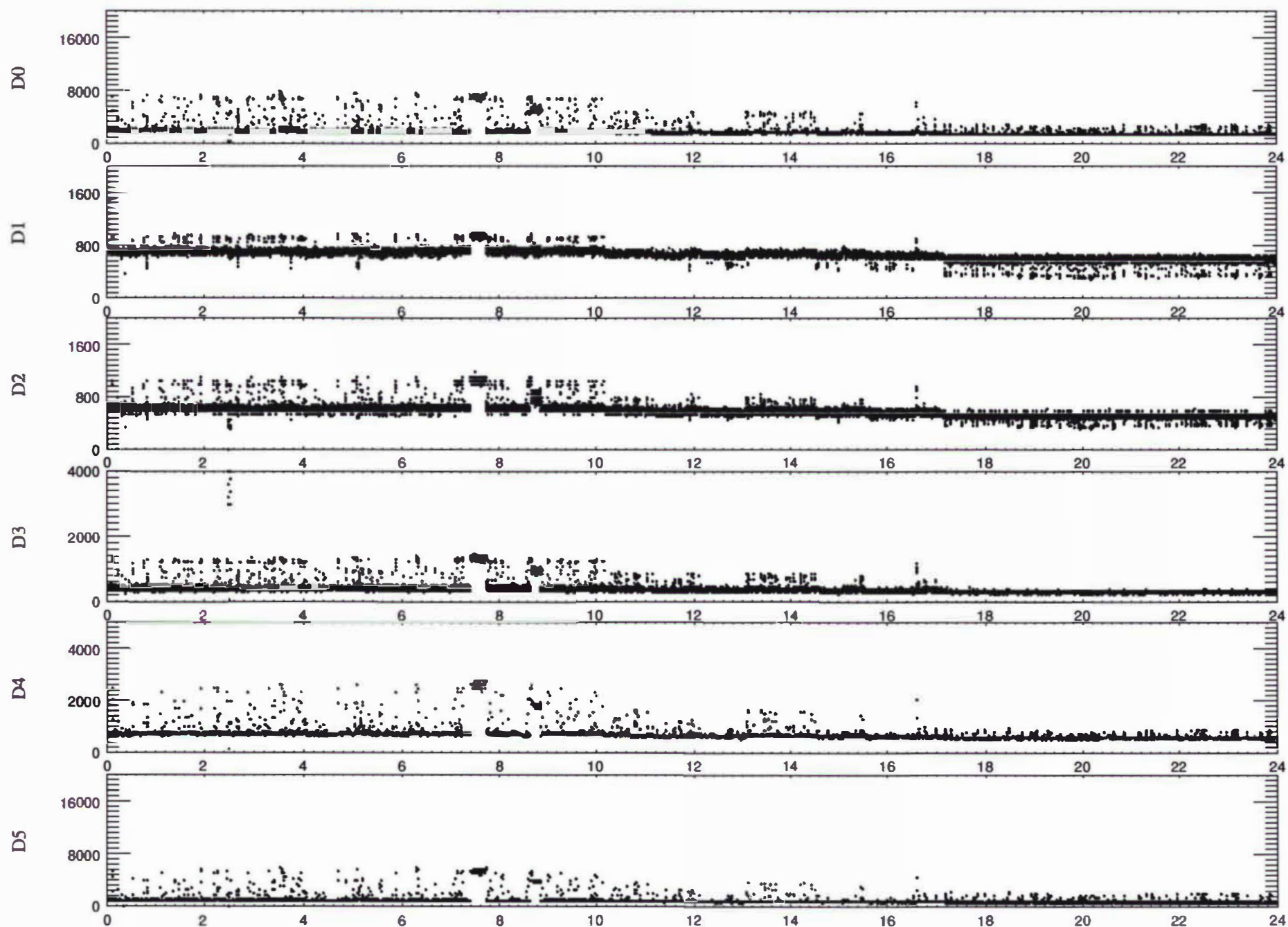


HUS 2A, MODE 1, NOT AVERAGED EDR day 188, year 1995 to day 188, year 1995
CALIBRATION DATA INCLUDED

1/25/96

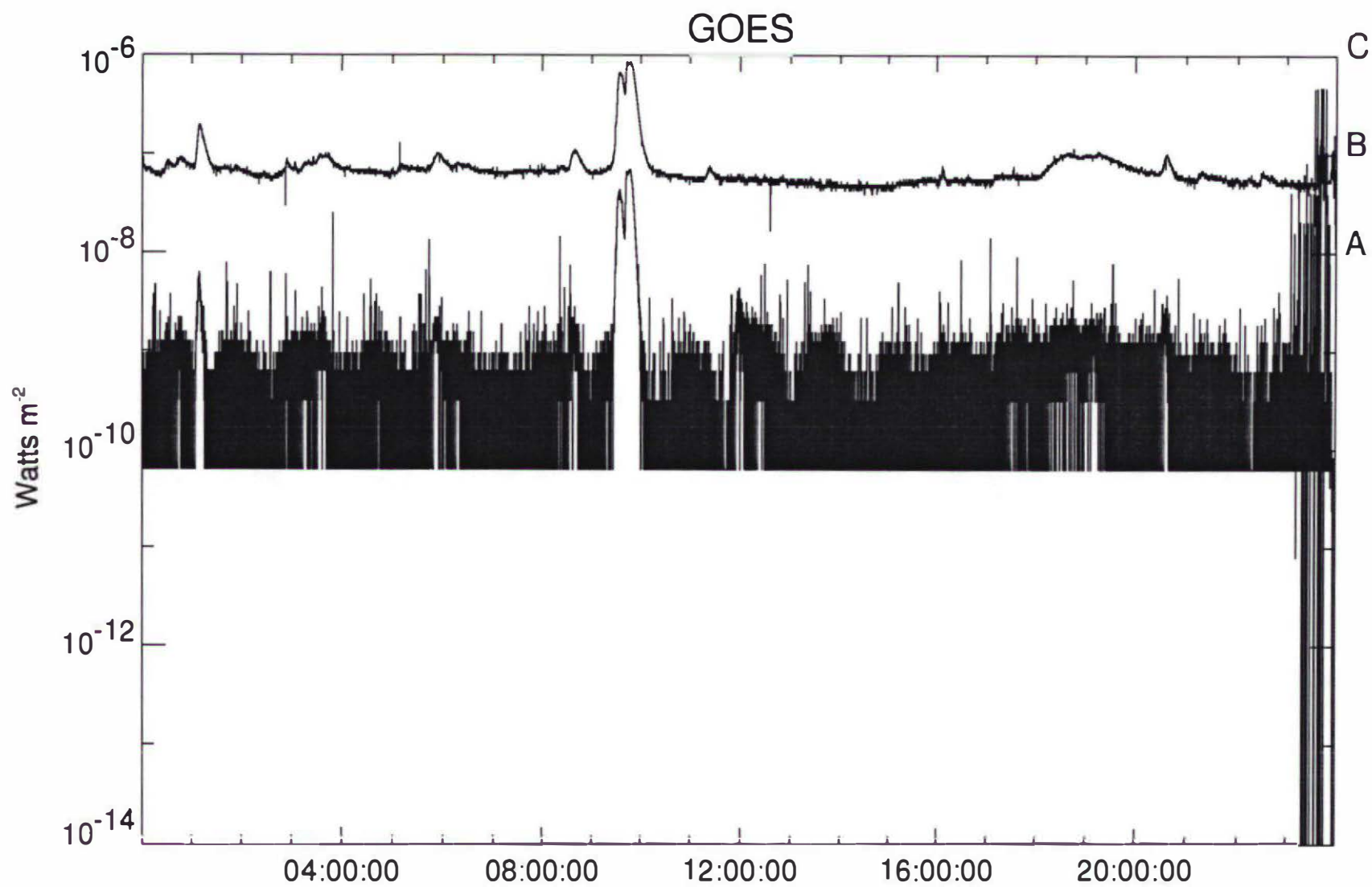


UNIV TIME



UNIVERSAL TIME

M



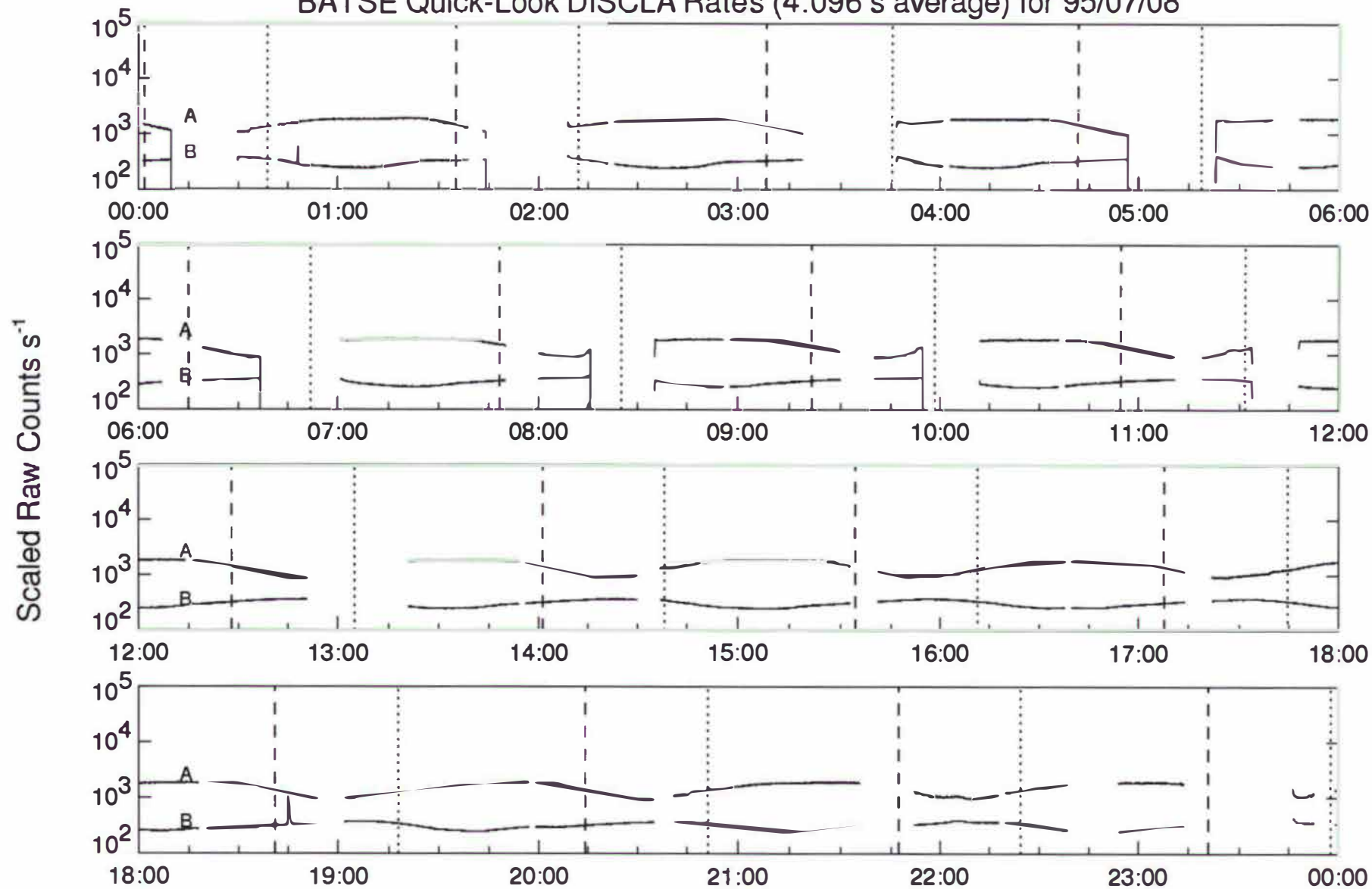
Data Start: 95/07/08, 0000:00

Plot created: 95/07/10, 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 95/07/08



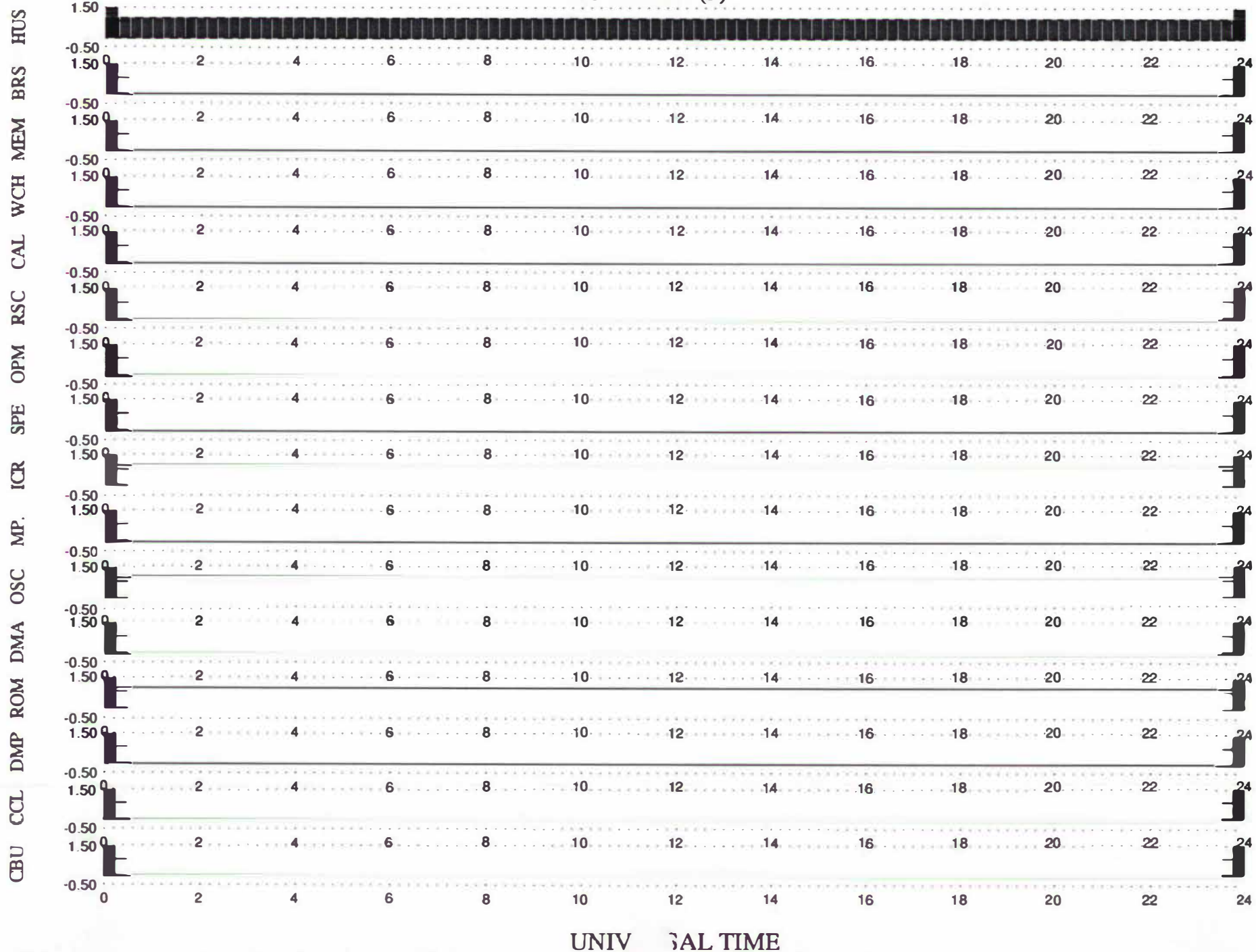
Current Time: 95/07/10, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

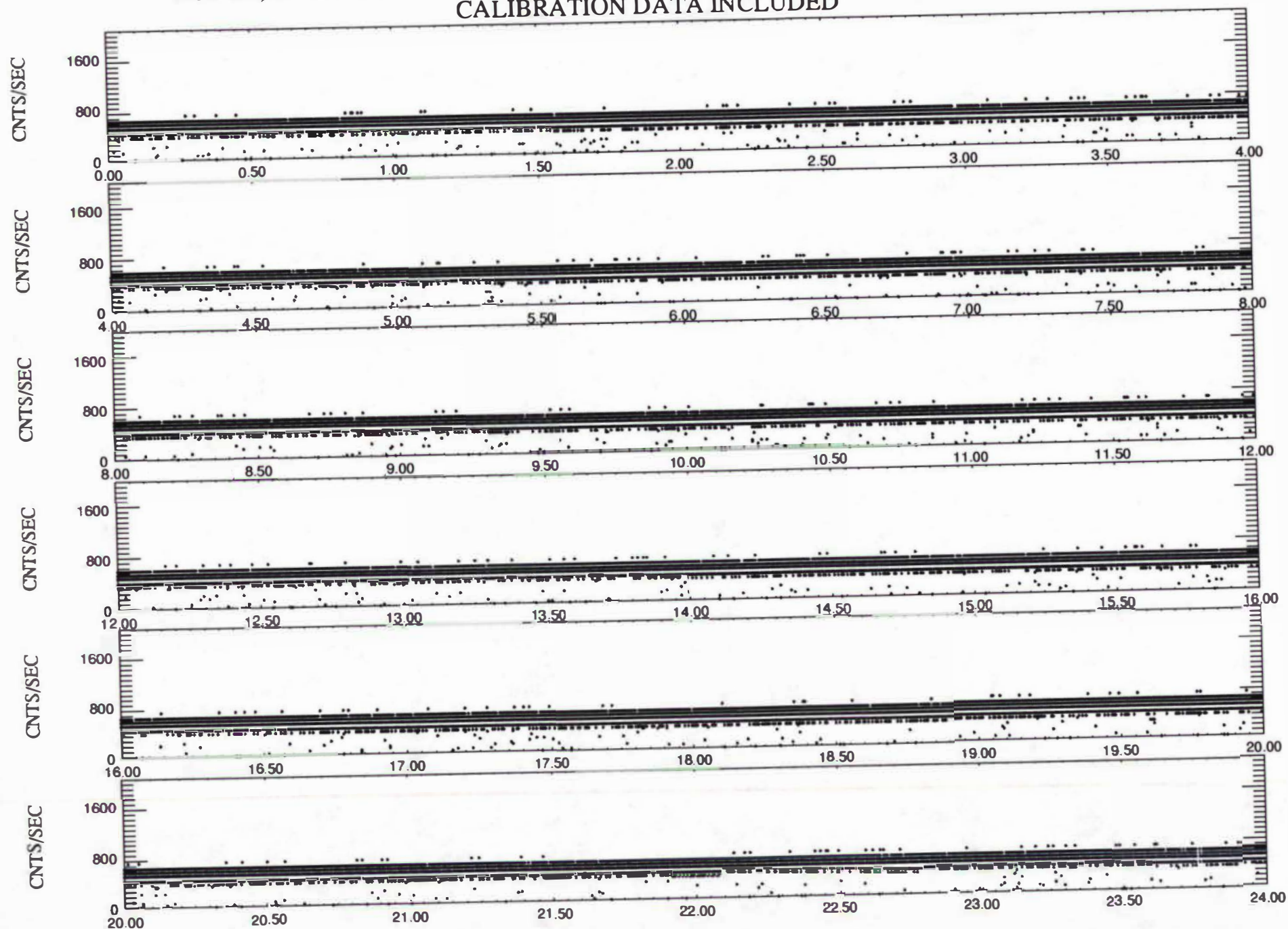
HUS MODES EDR day 189, year 1995 to day 189, year 1995
NO BURST (5)

1/25/96

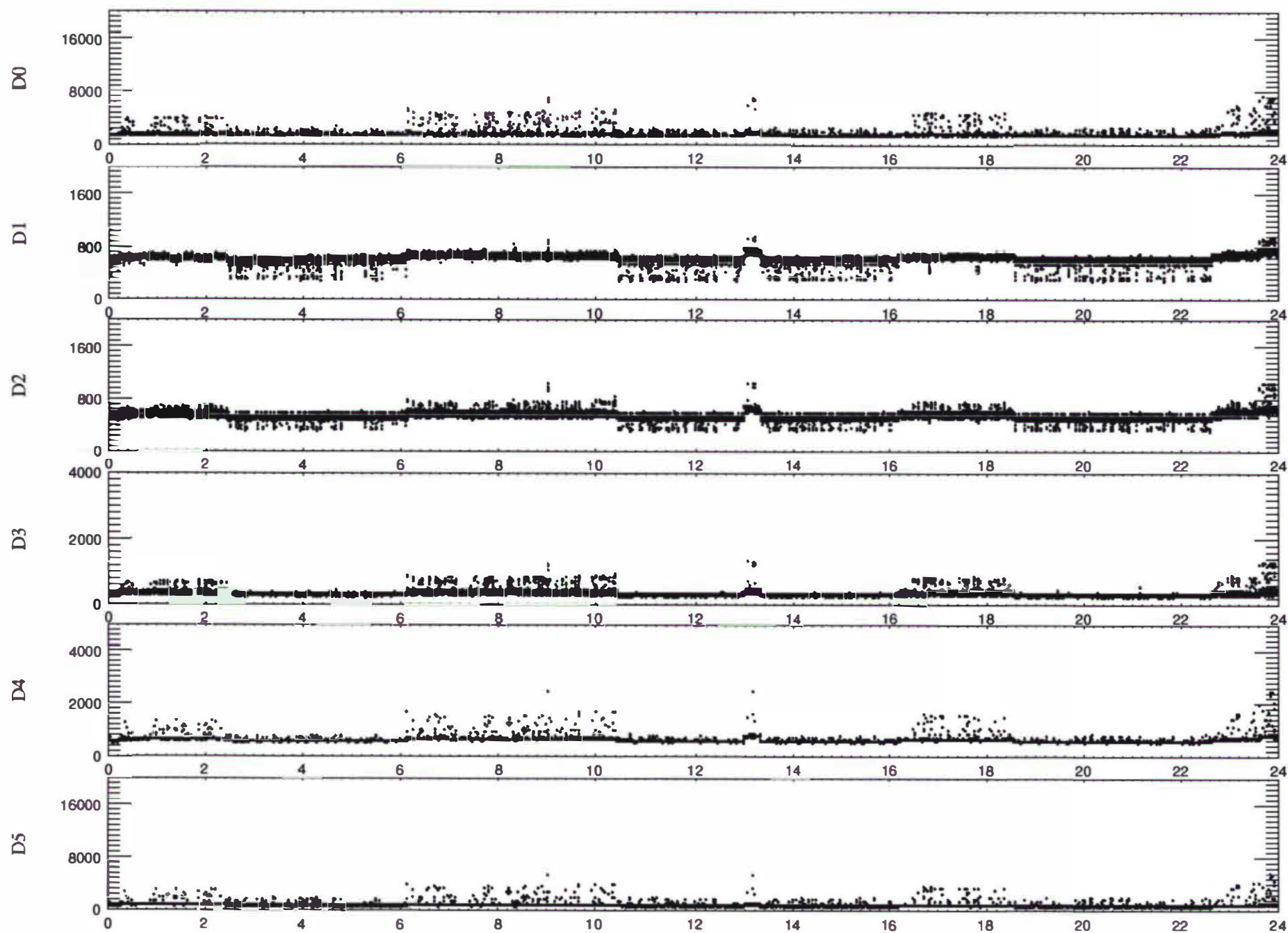


HUS 2A, MODE 1, NOT AVERAGED EDR day 189, year 1995 to day 189, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



UNIVERSAL TIME

Date: Aug 29 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

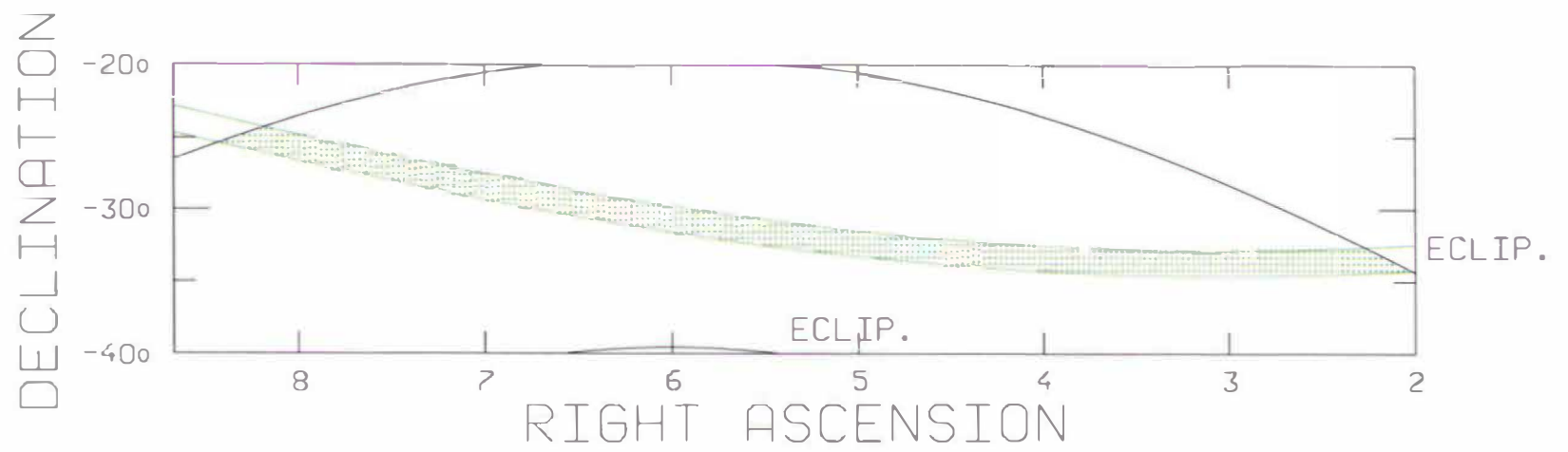
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

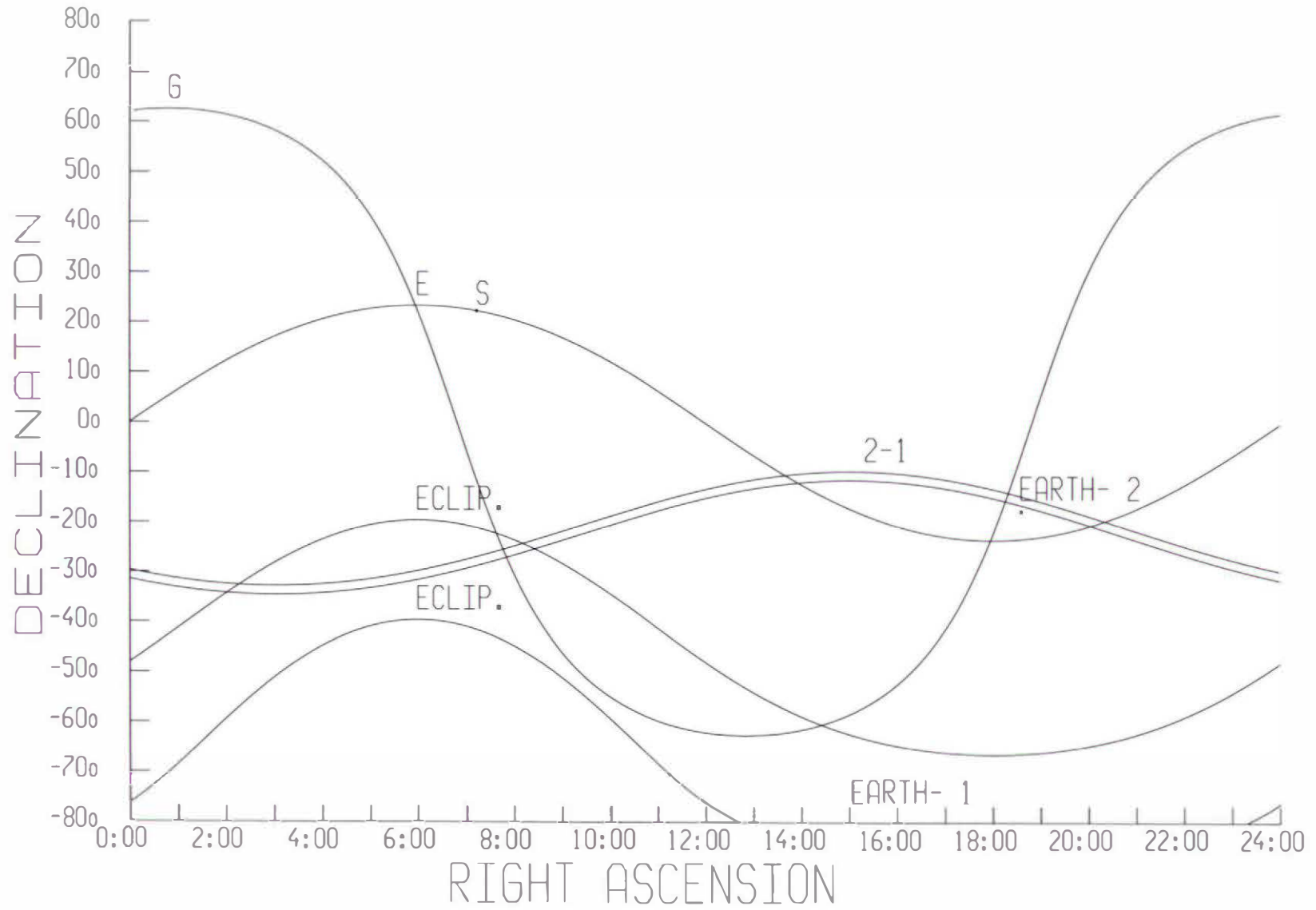
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

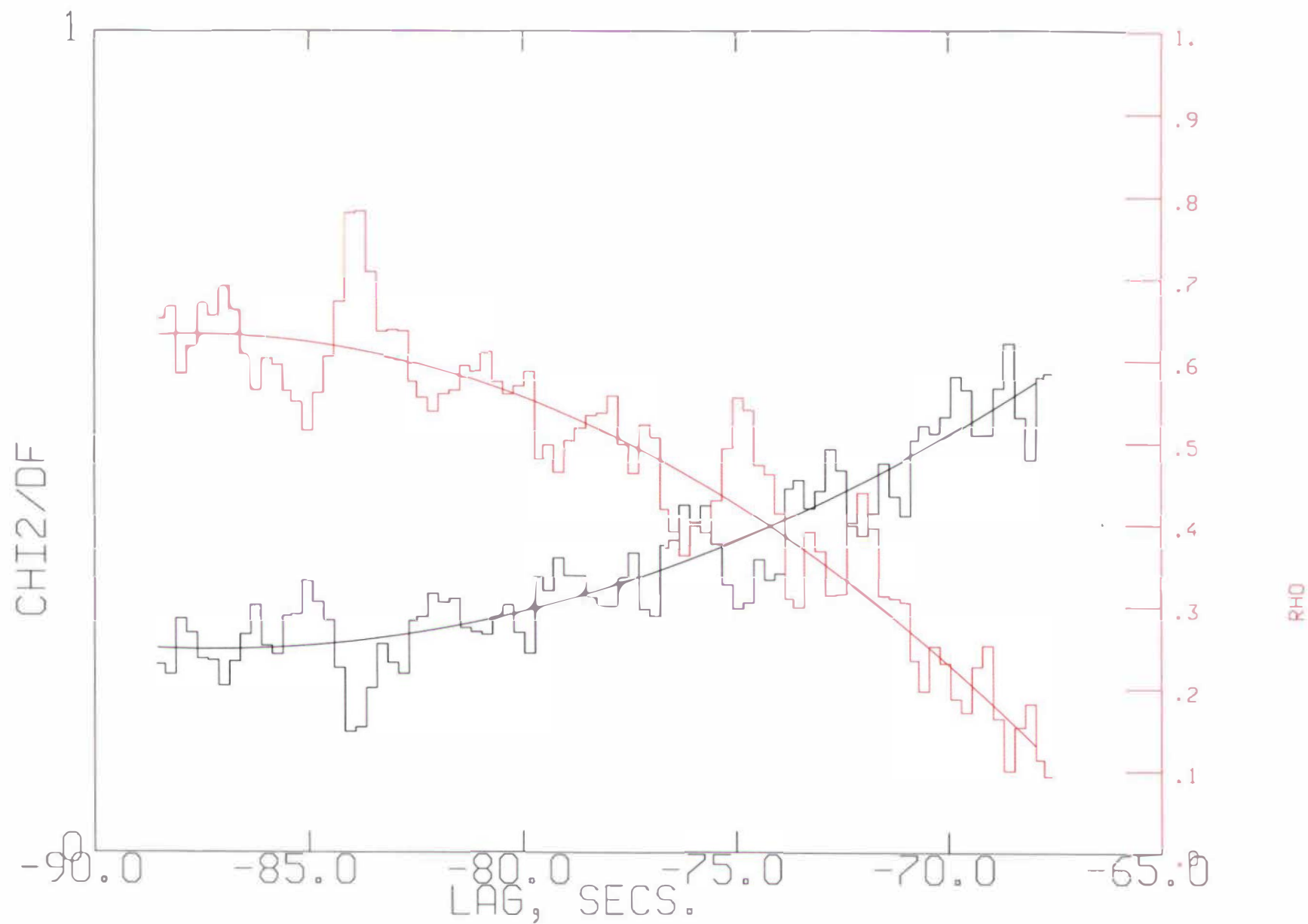


EVENT OF JUL 9, 1995 14:59

29/08/2011

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 KONUS





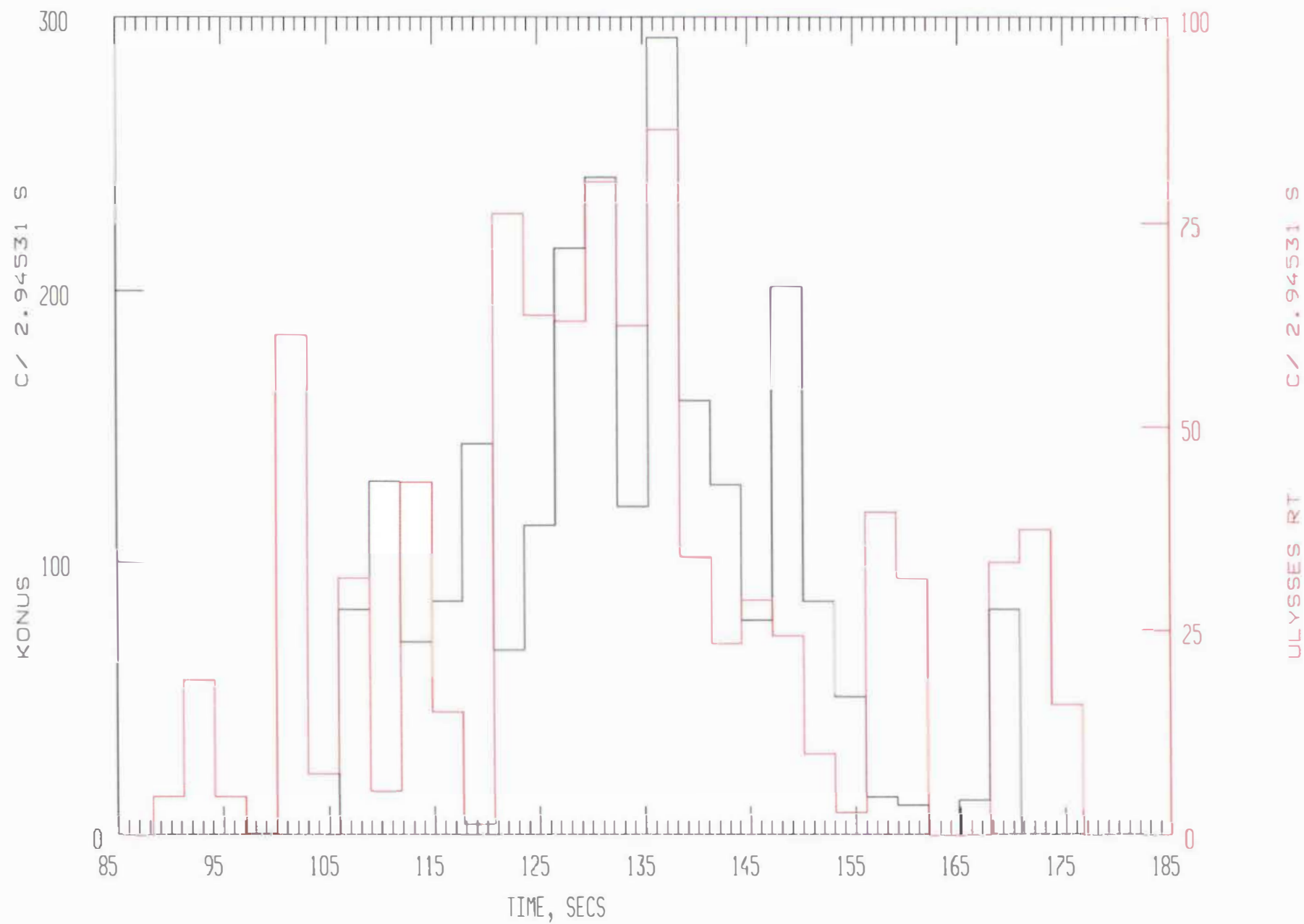
KONUS

-ULYSSES RT CORRELATION

09/07/95

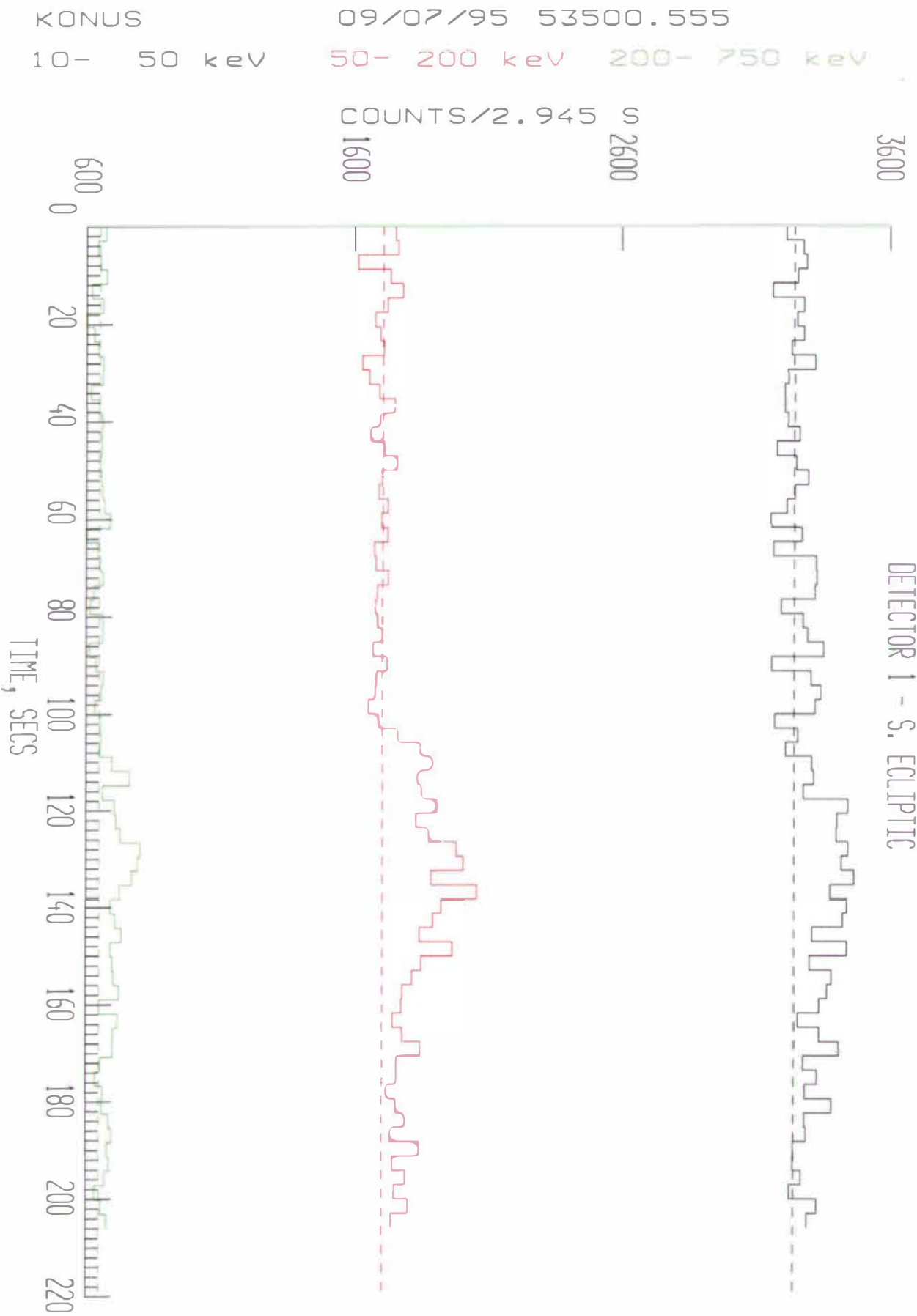
53500.555

29/ 8/11



29/08/2011

DETECTOR 1 - S. ECLIPSE



KONUS

09/07/95

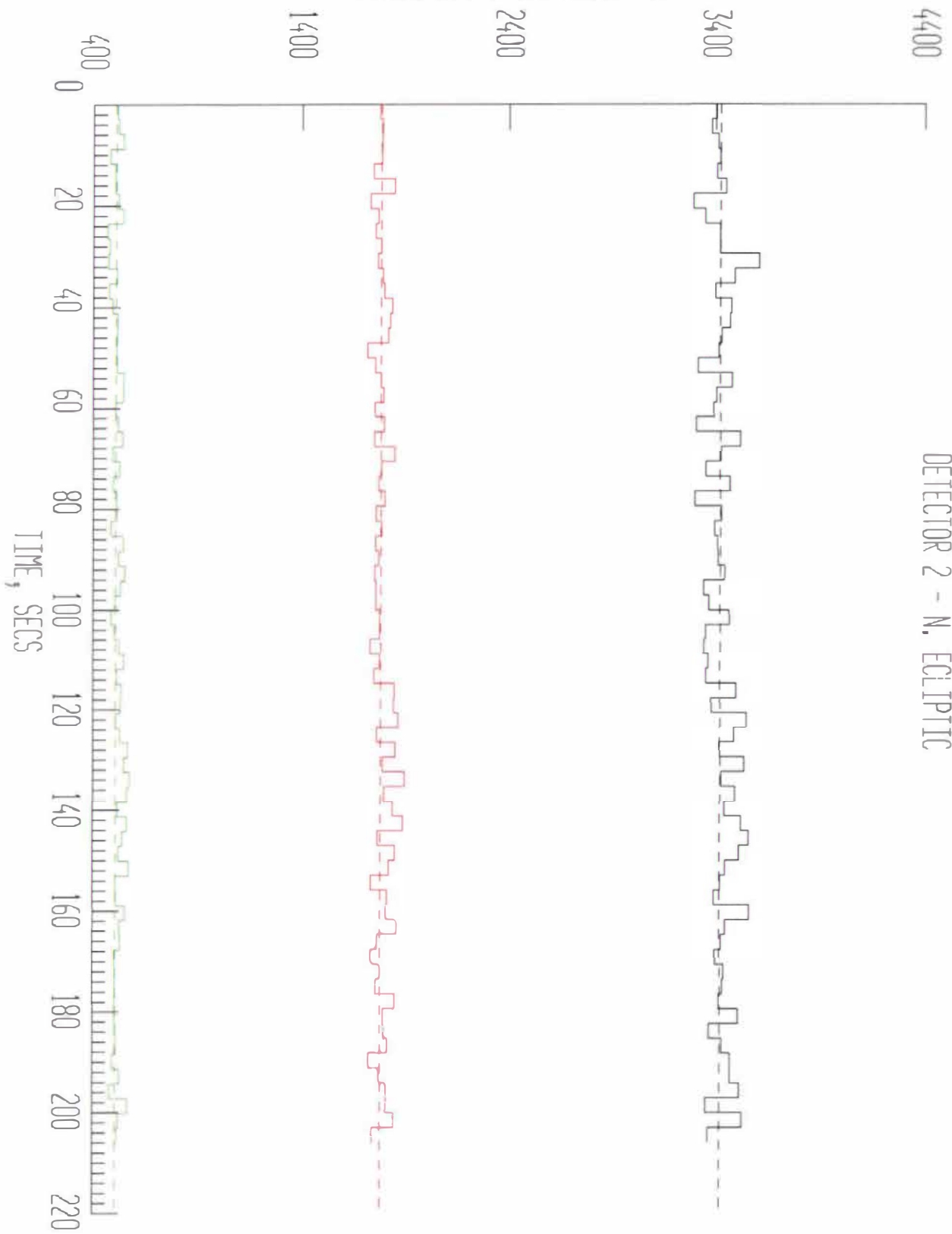
53500.555

10- 50 keV

50- 200 keV

200- 750 keV

COUNTS/2.945 S



KONUS 19950709 54024

ULYSSES RT

27/08/11

09/07/95 53928.016 s

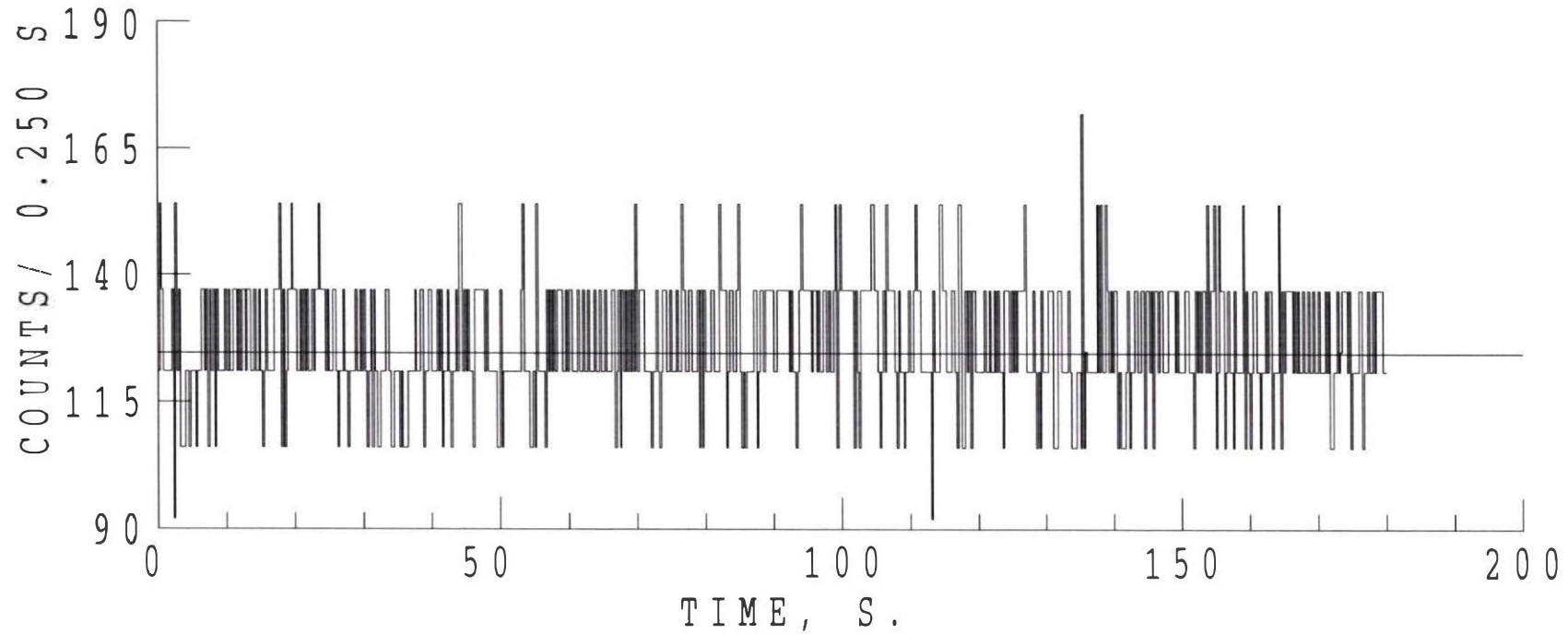
0 - 0 keV

N= 10 M= 10

>4.0 SIGMA FLUCTUATIONS

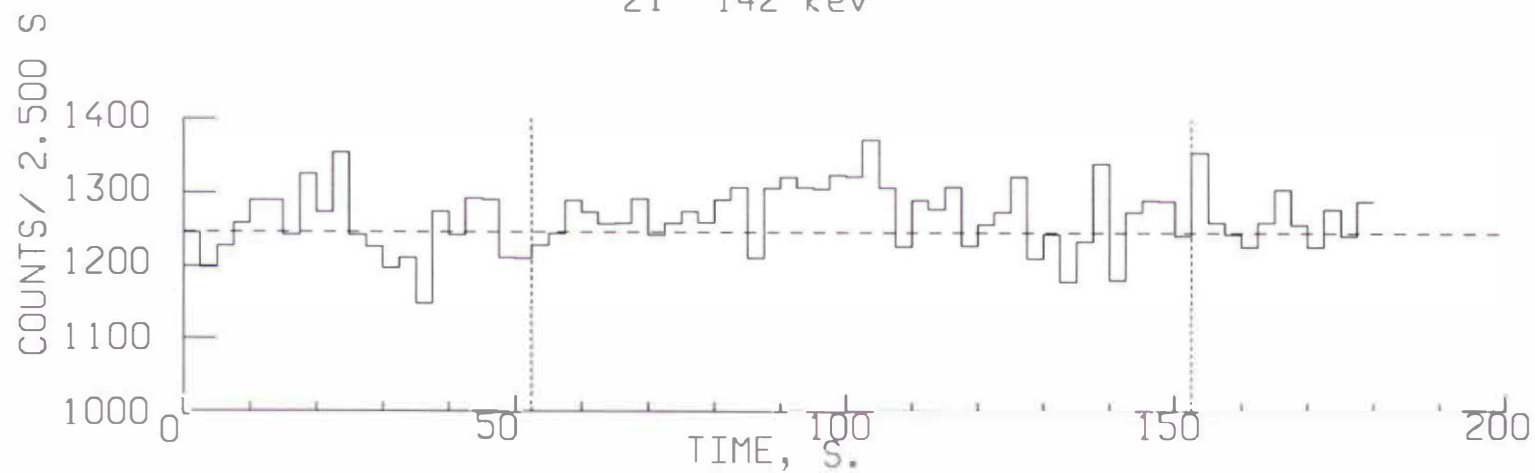
N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



ULYSSES RT
9/ 7/95 53928.016 s
0.250 S INTERVALS REGROUPED BY 10
21- 142 keV

29/ 8/11



KONUS

ULYSSES RT

25 / 01 / 00

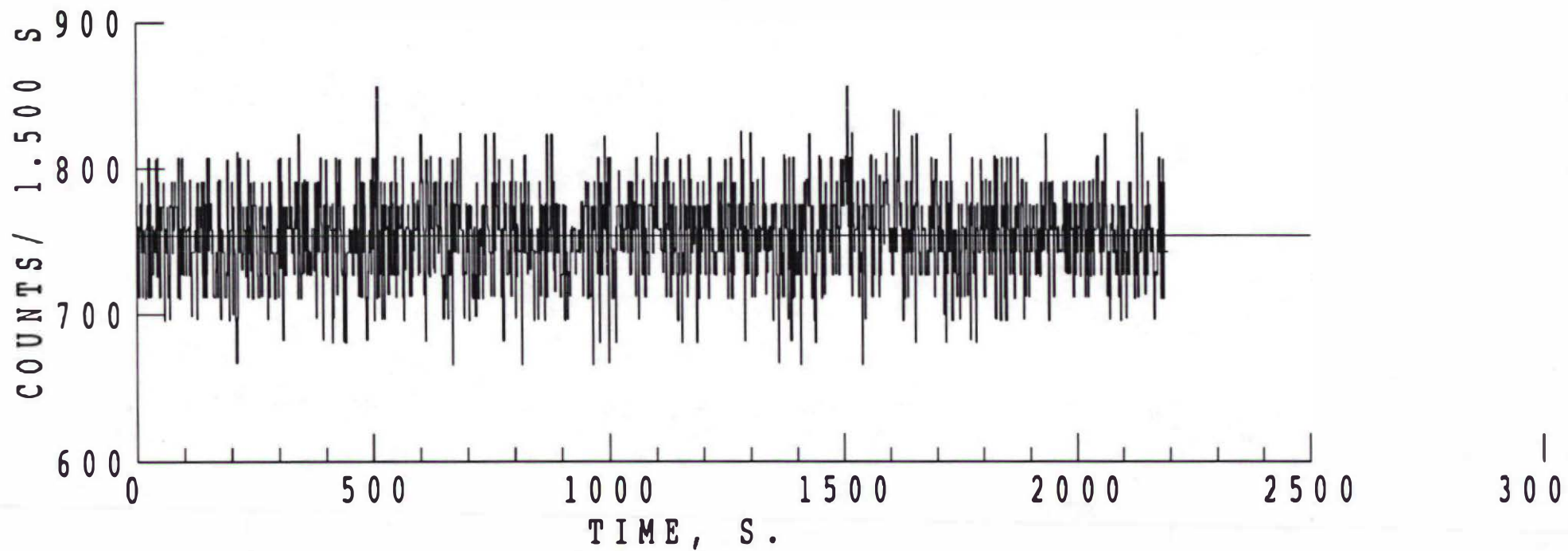
09 / 07 / 95 52524.242 s

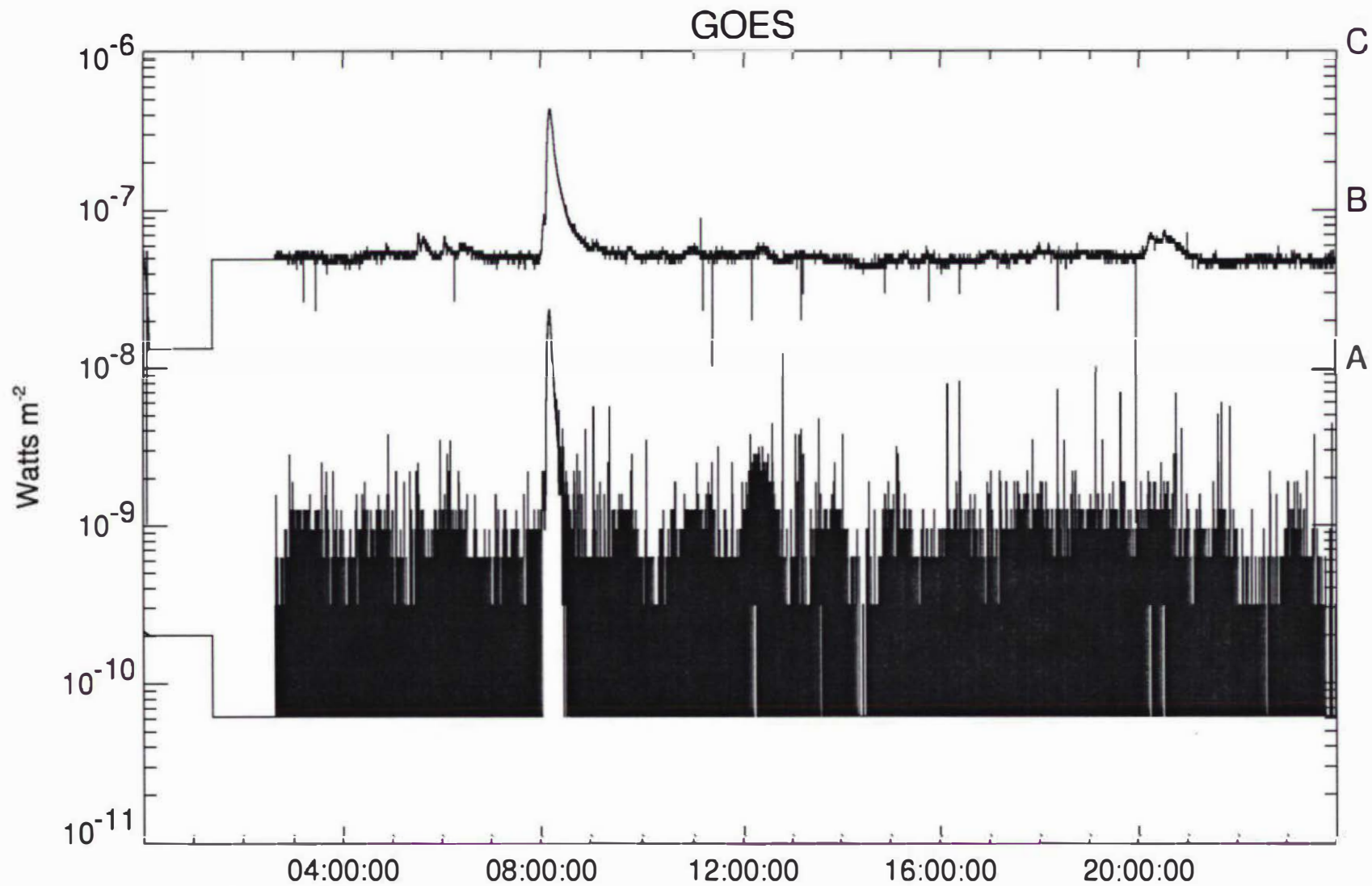
0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





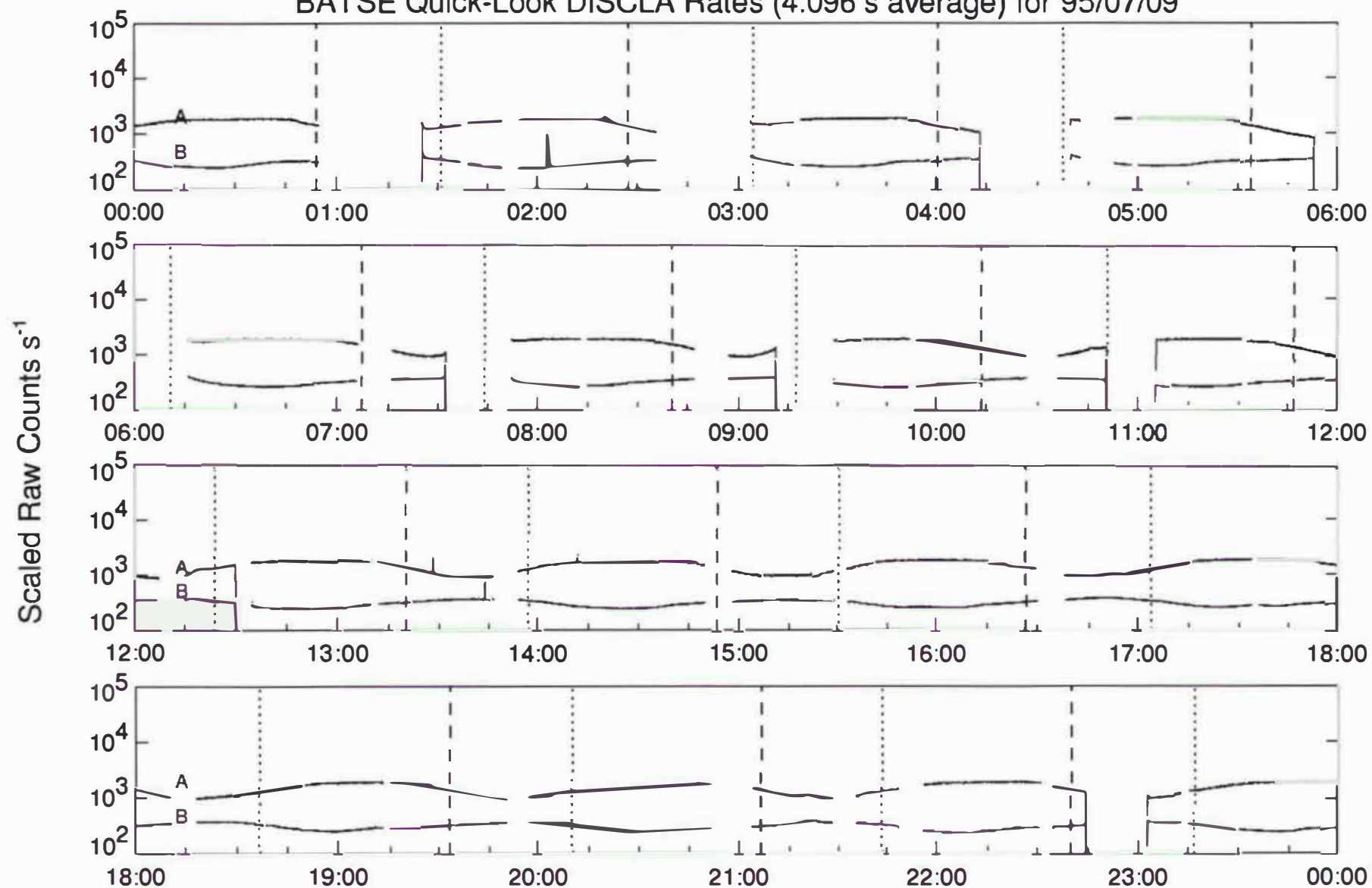
Data Start: 95/07/09, 0000:10

Plot created: 95/07/11, 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 95/07/09



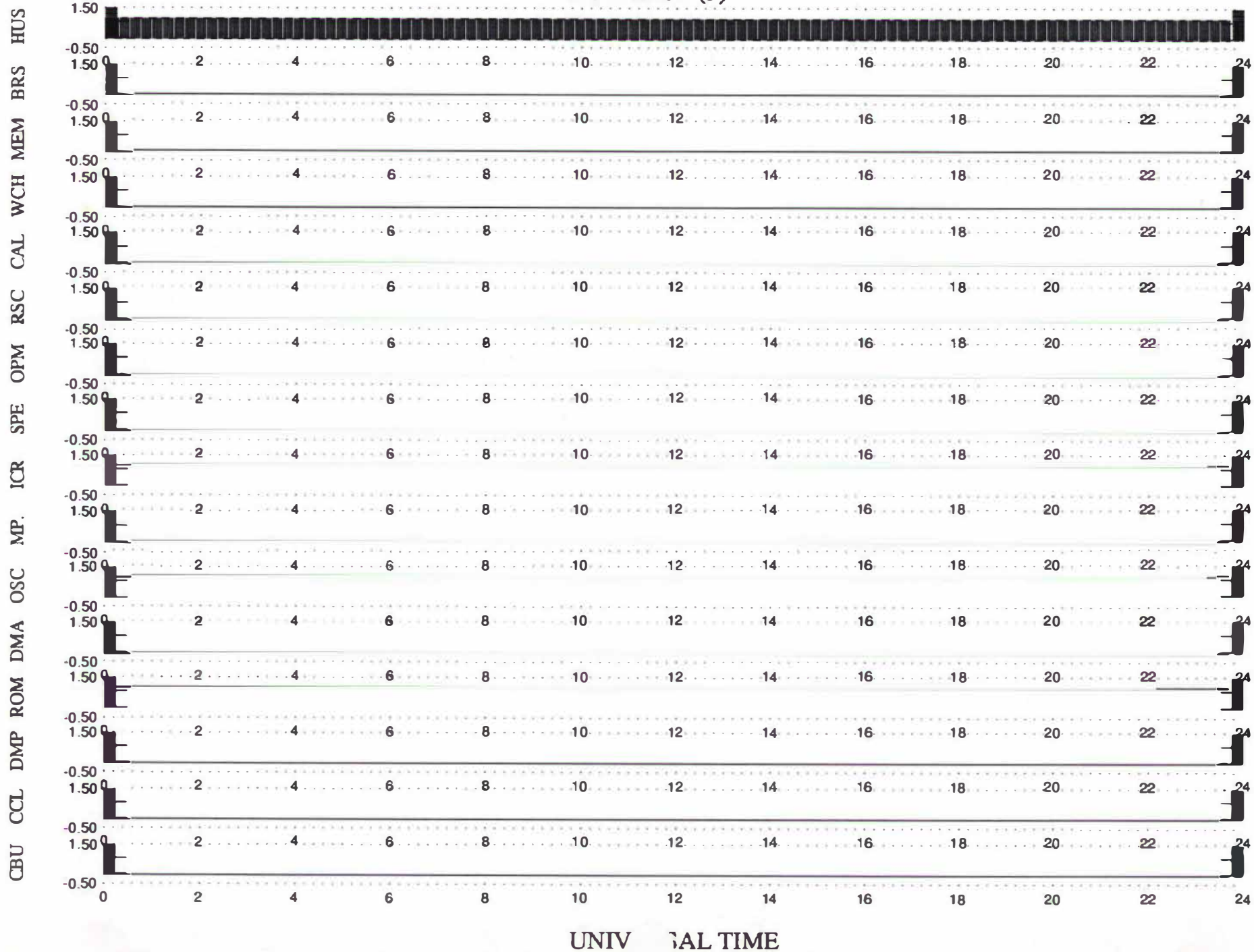
Current Time: 95/07/11, 0529 EDT
A: Channel 0 Most Sunward LAD
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

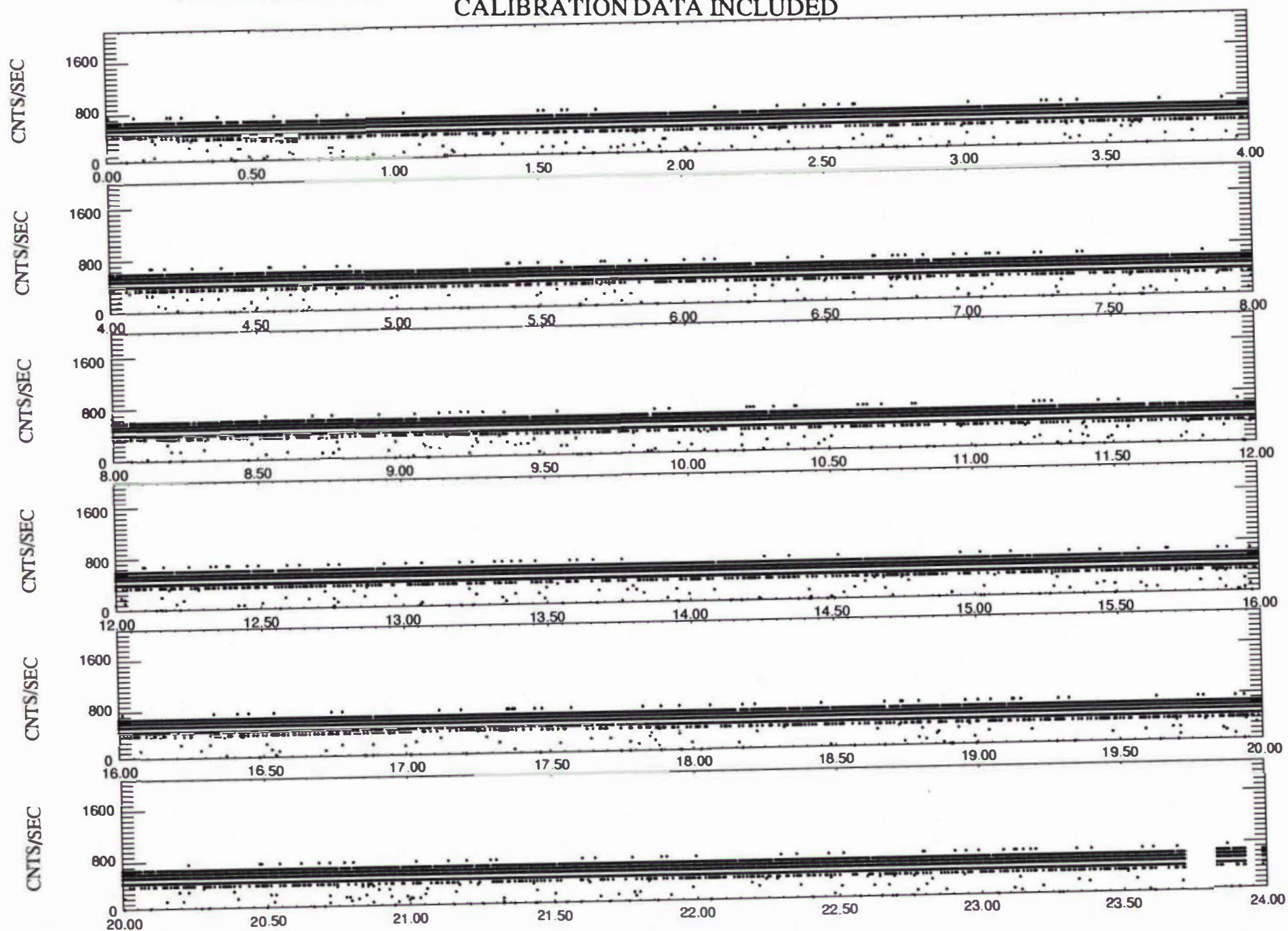
HUS MODES EDR day 190, year 1995 to day 190, year 1995 NO BURST (5)

1/25/96

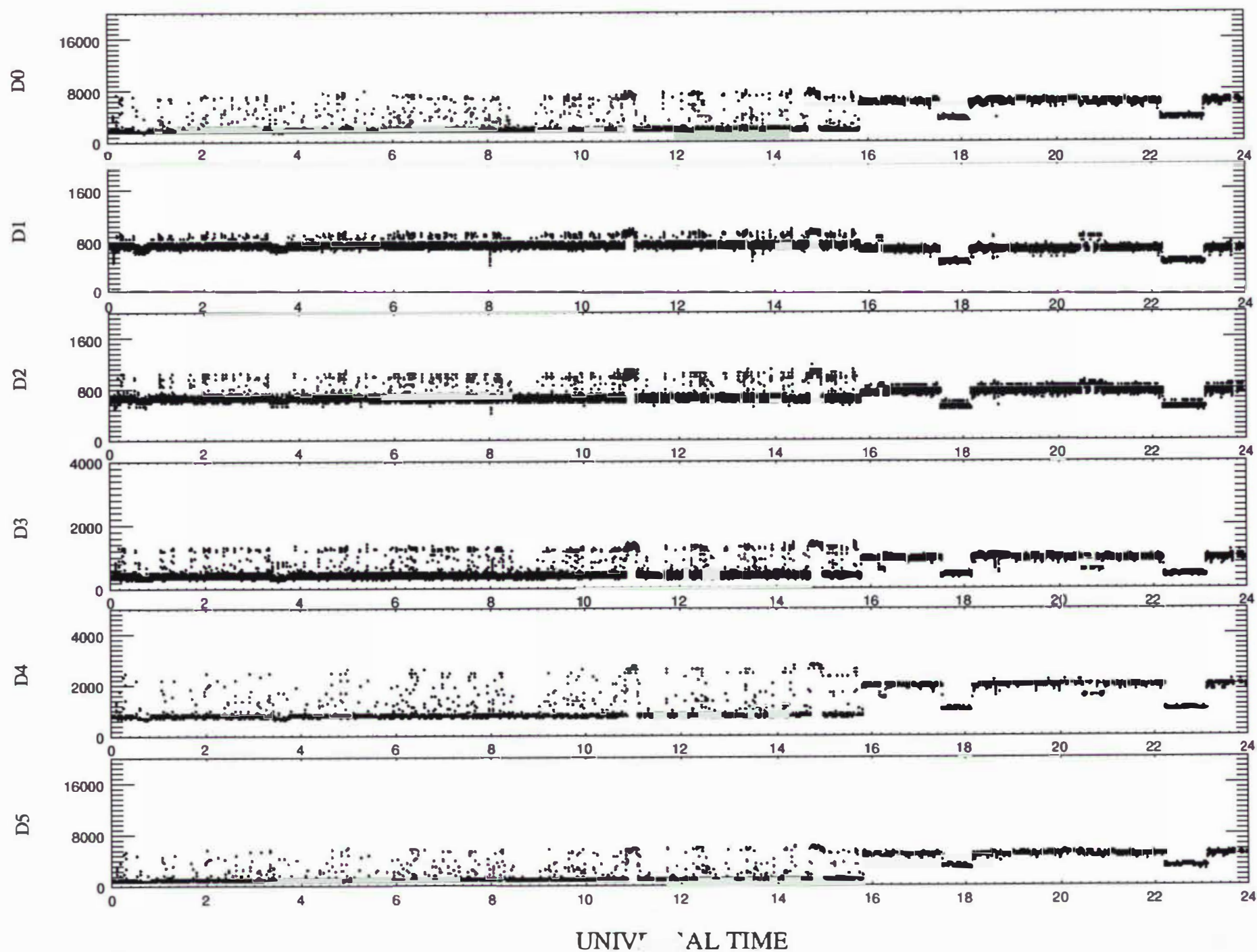


HUS 2A, MODE 1, NOT AVERAGED EDR day 190, year 1995 to day 190, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



Date: Aug 29 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

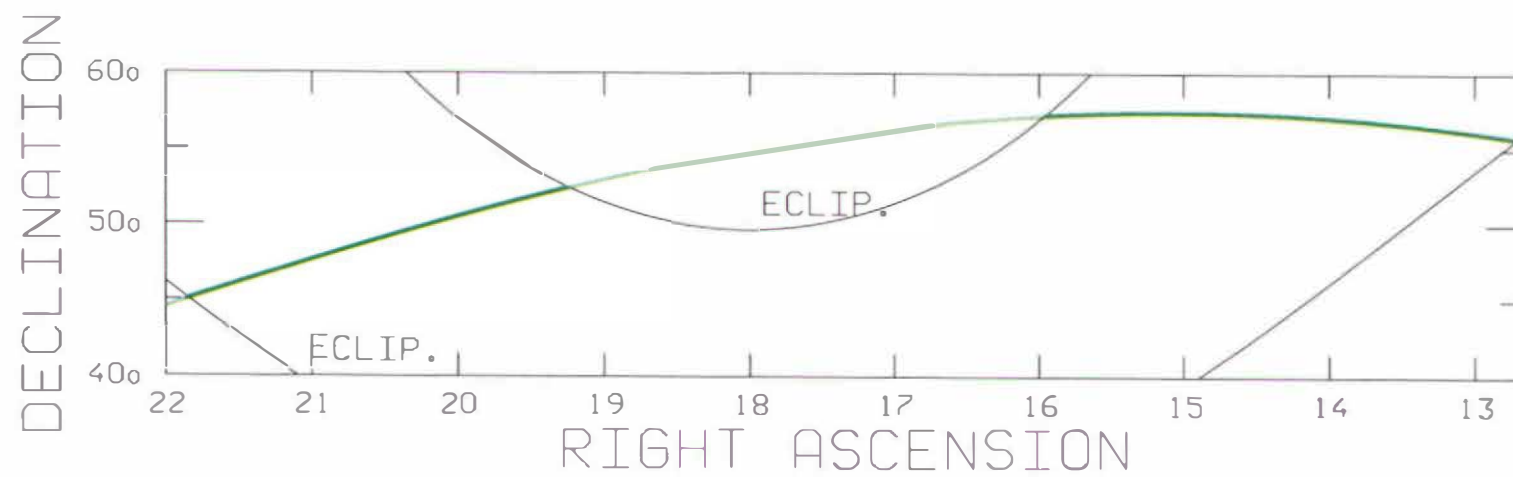
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

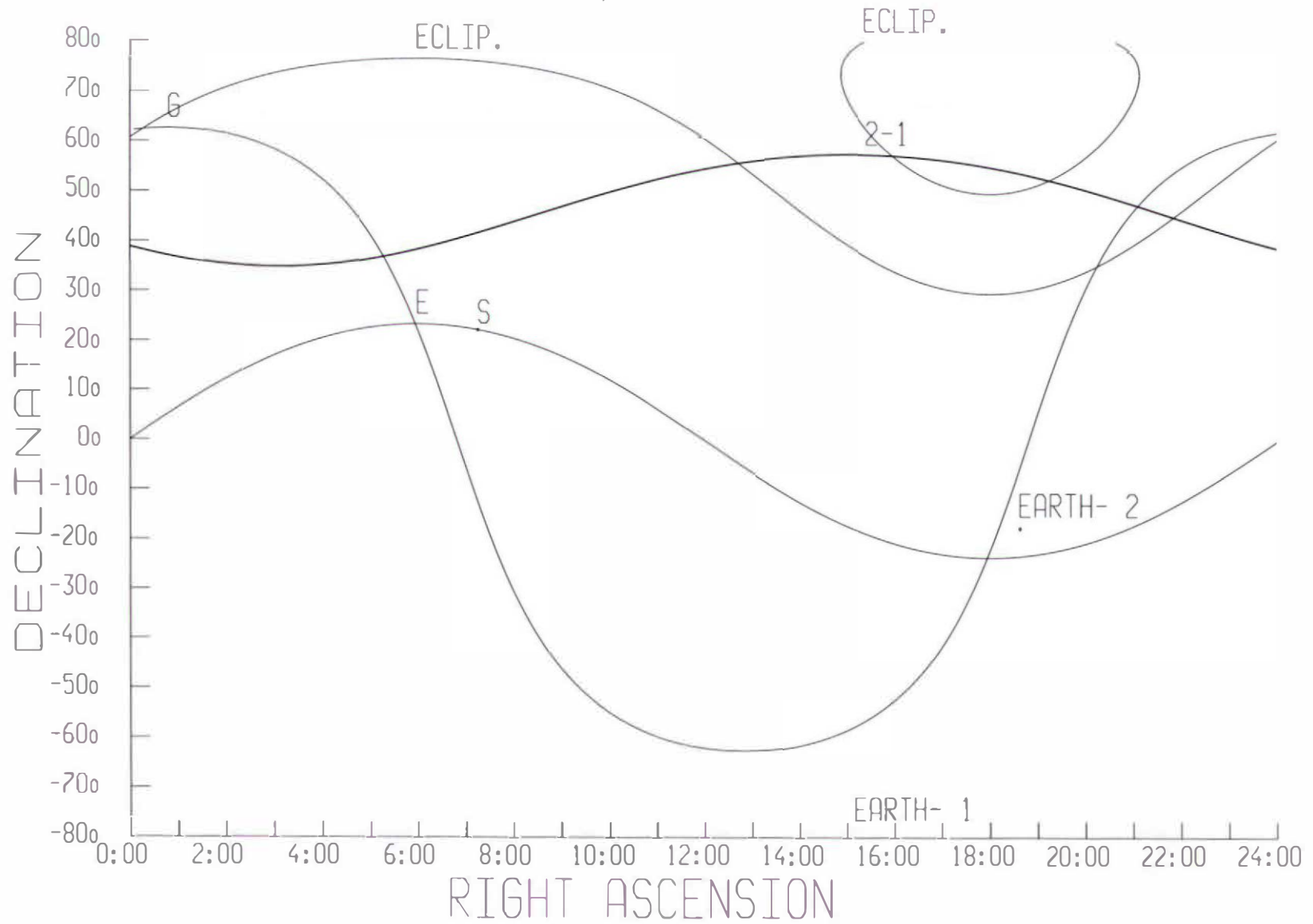
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

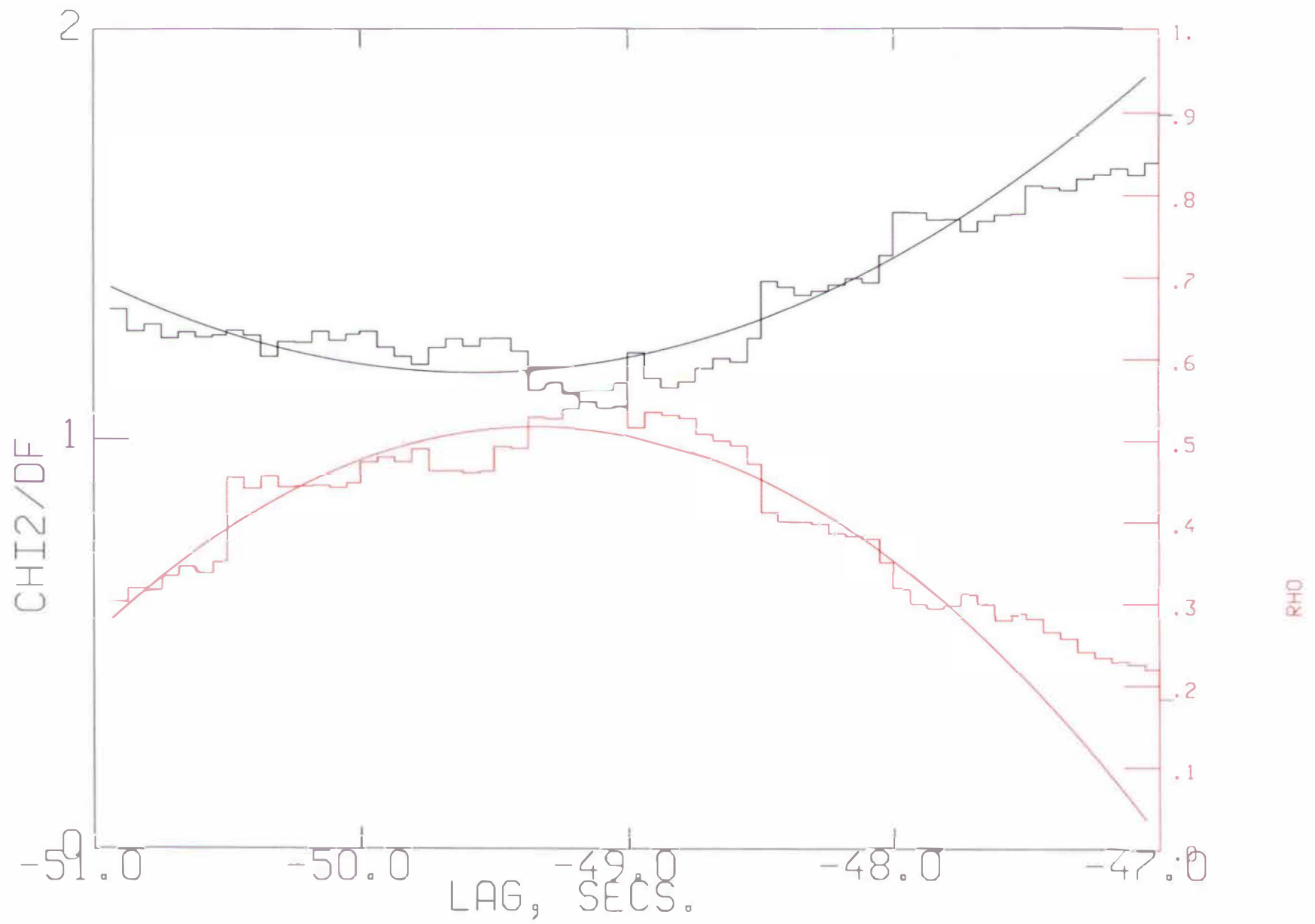


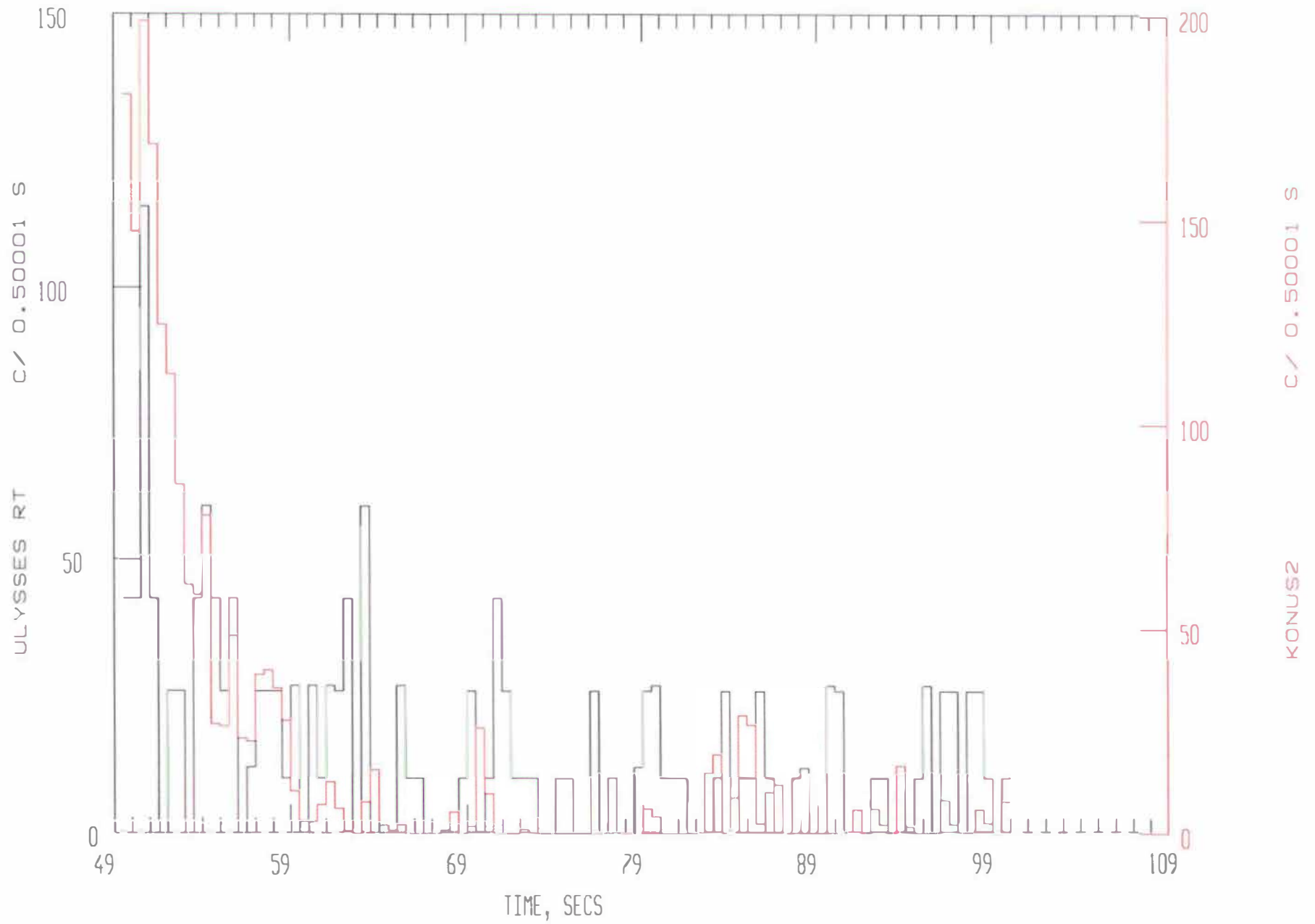
EVENT OF JUL 10, 1995 1:49

29/08/2011

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 19950710 06614

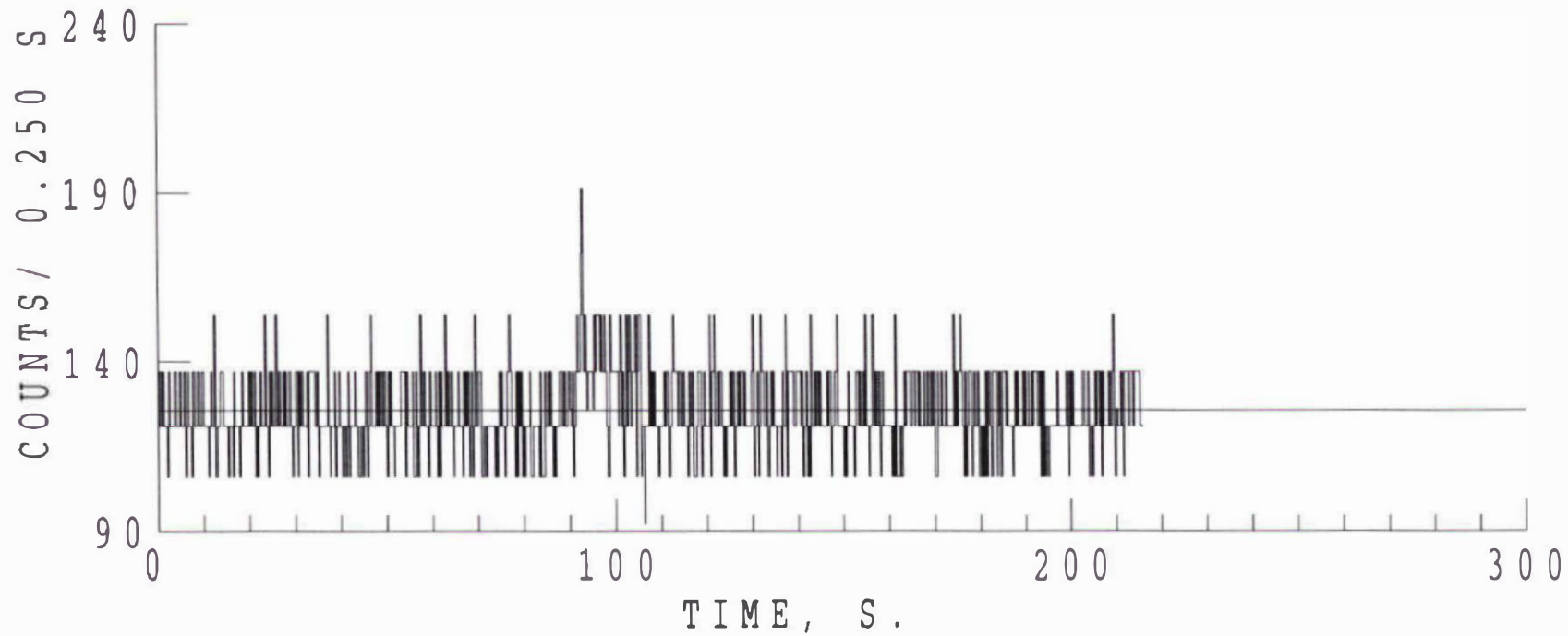
ULYSSES RT

27 / 08 / 11

10/07/95 6516.007 s

0 - 0 keV

N= 10 N= 2
>4.0 SIGMA FLUCTUATIONS



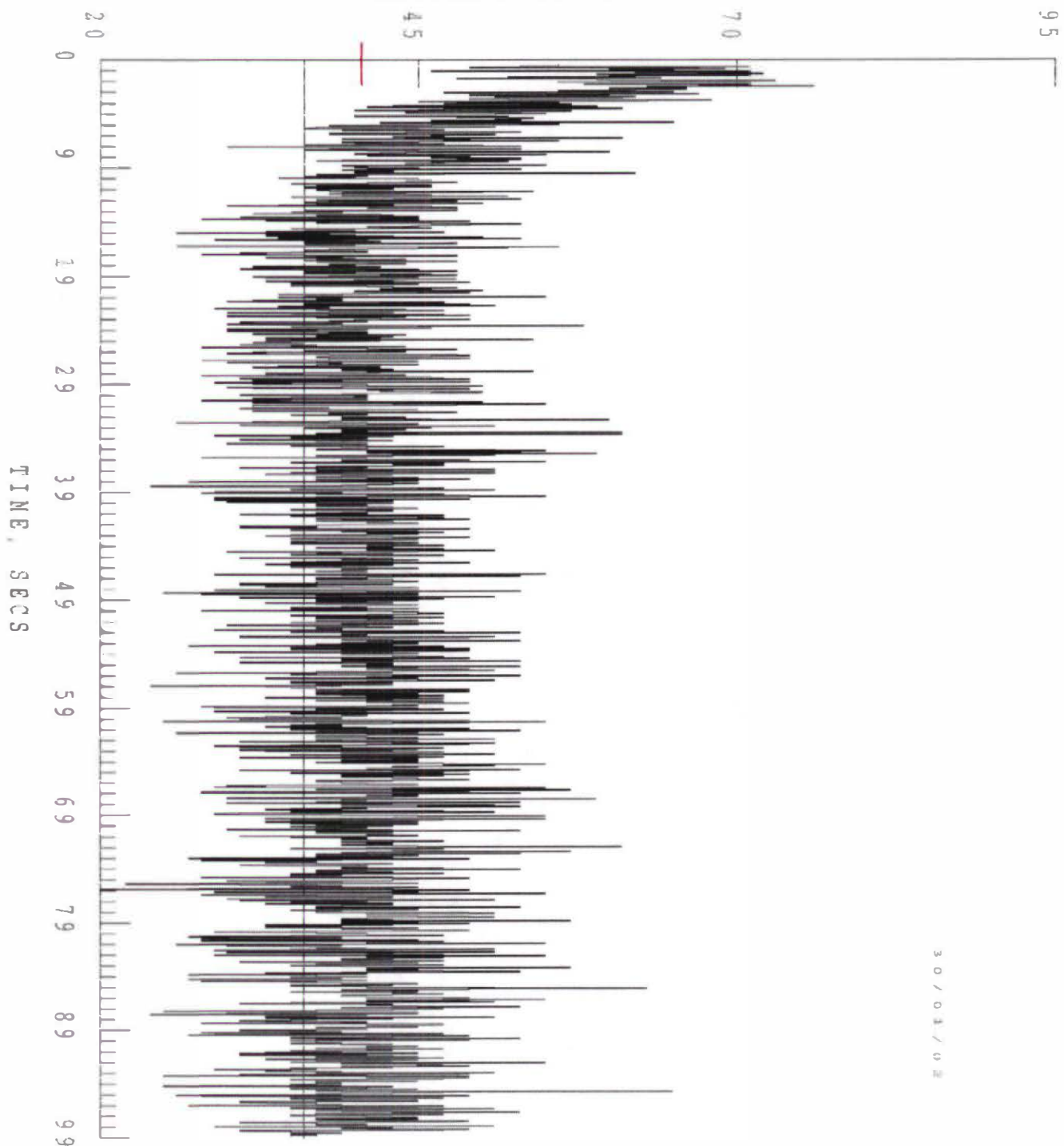
KONUS2

10/07/95

7362.470

50 - 200 keV

COUNTS/0.064 S



KONUS2 19950710 07362

ULYSSES RT

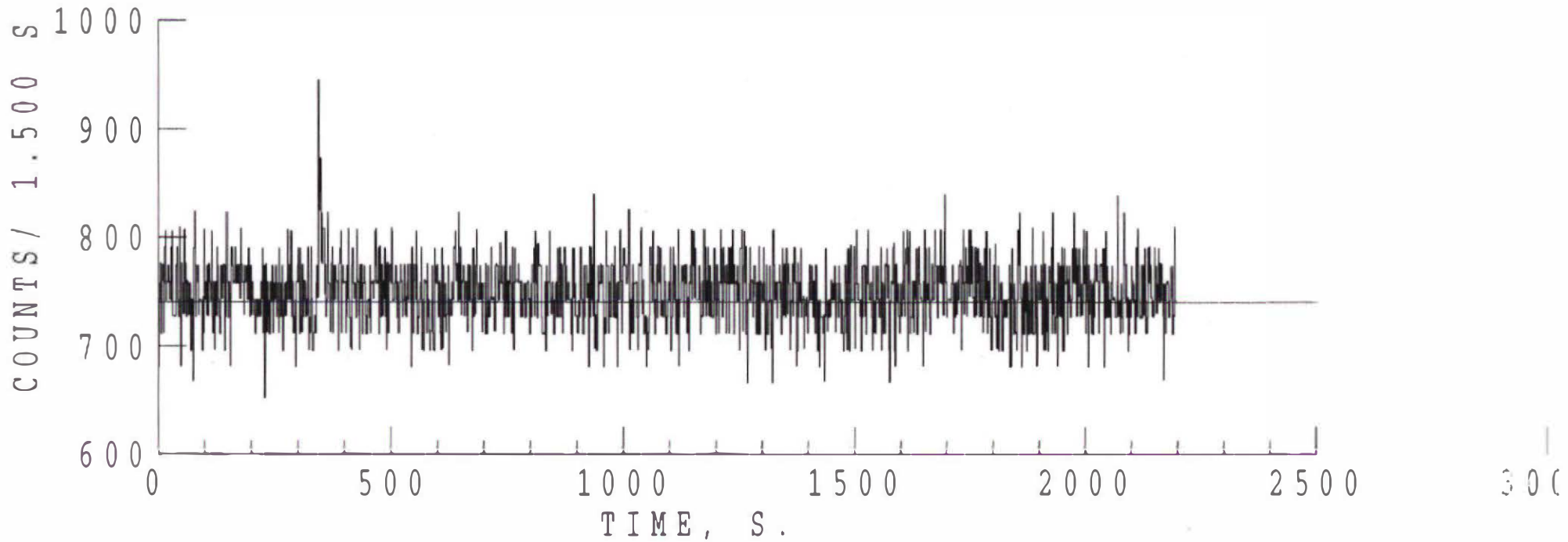
30/01/02

10/07/95 6264.002 s

0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



KONUS

ULYSSES RT

25 / 01 / 00

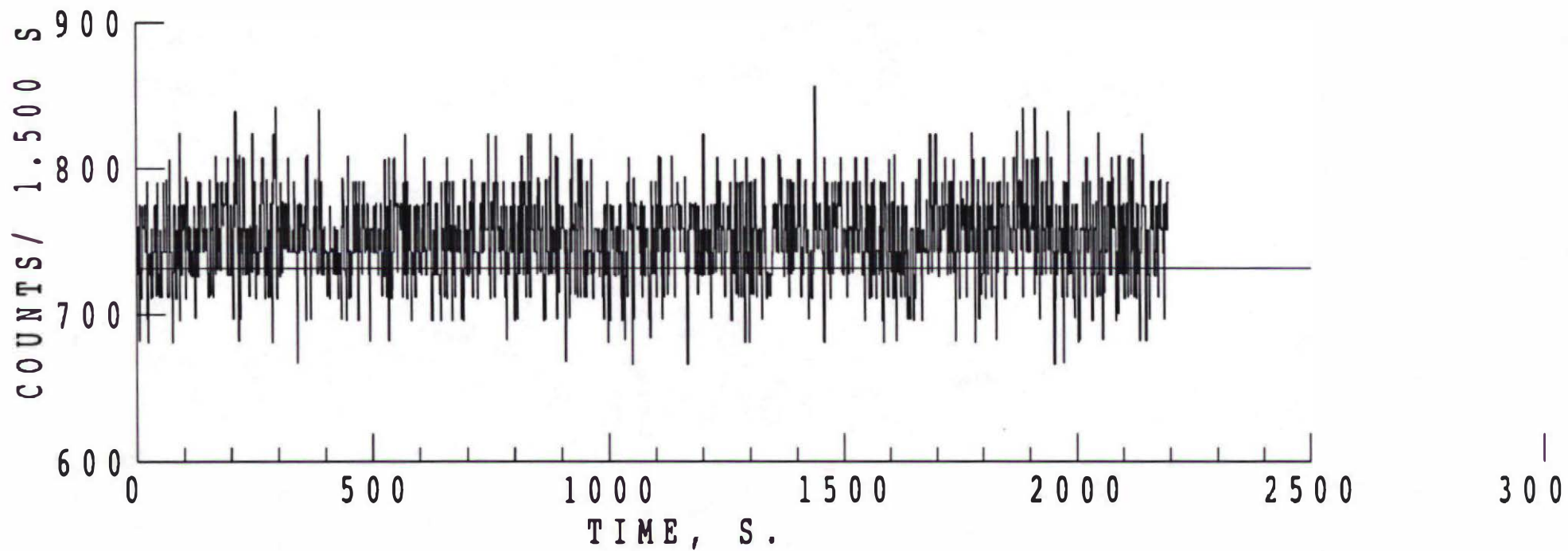
10 / 07 / 95 79632.141 s

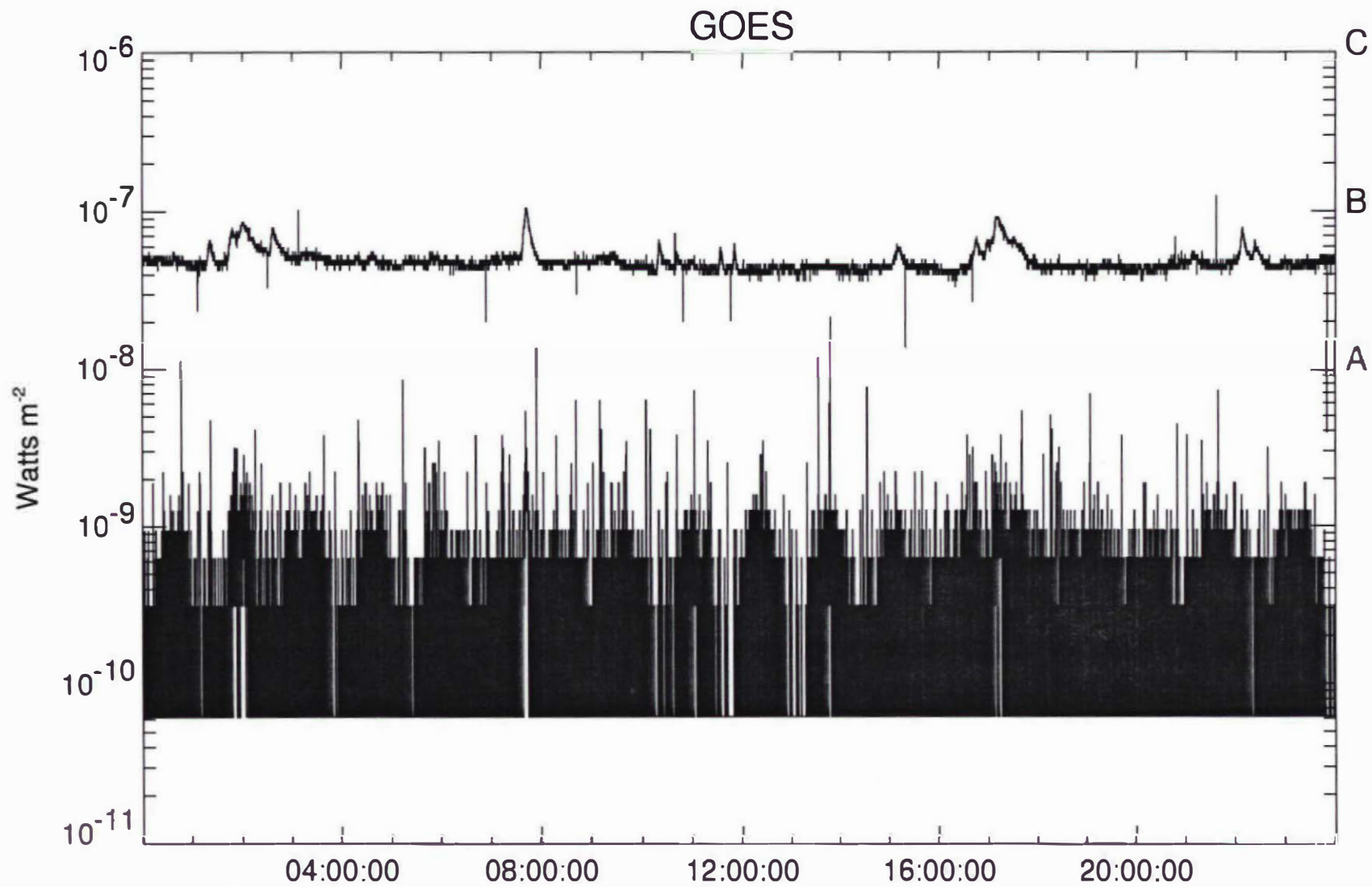
0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





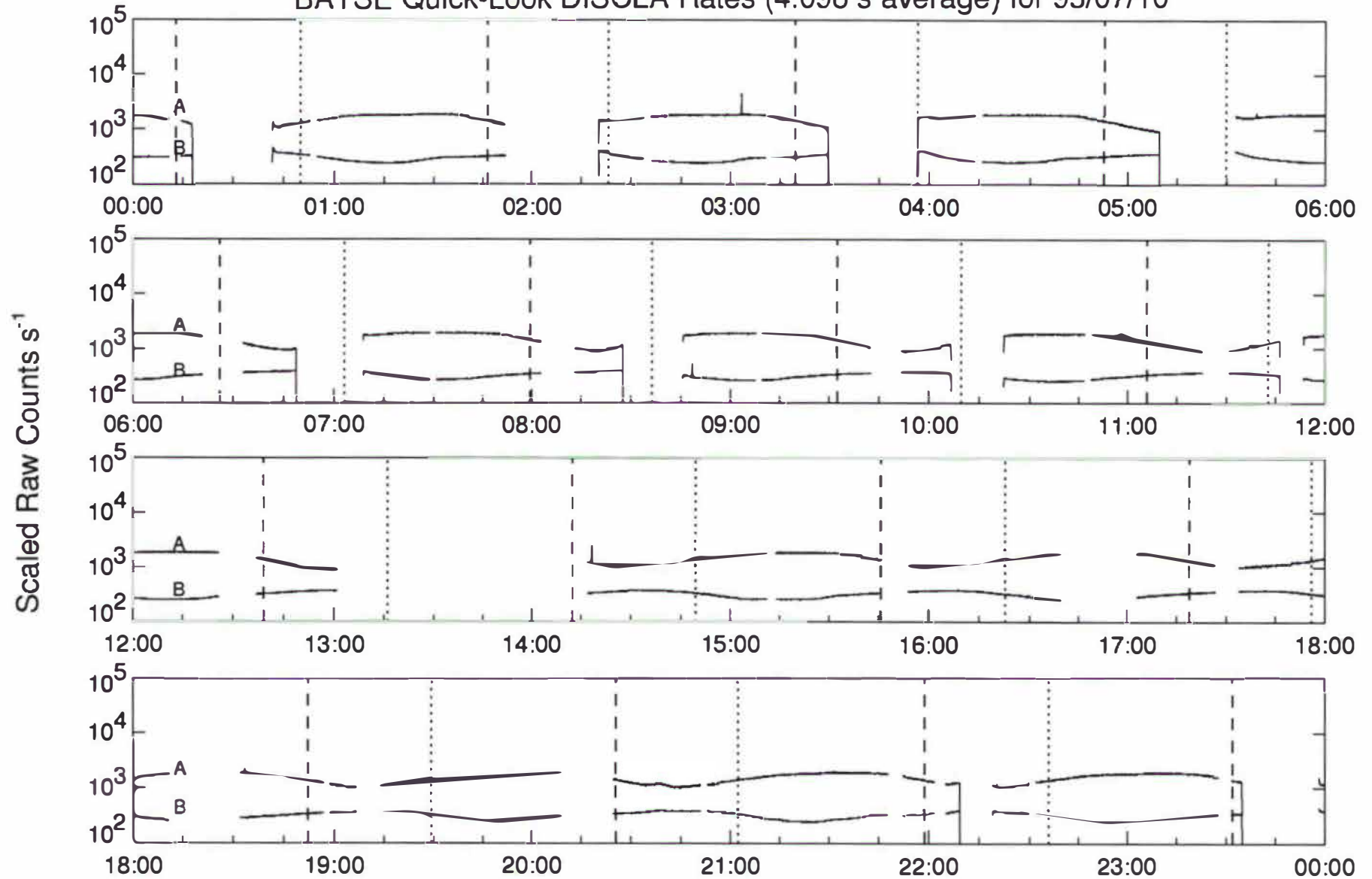
Data Start: 95/07/10, 0000:02

Plot created: 95/07/12, 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 95/07/10



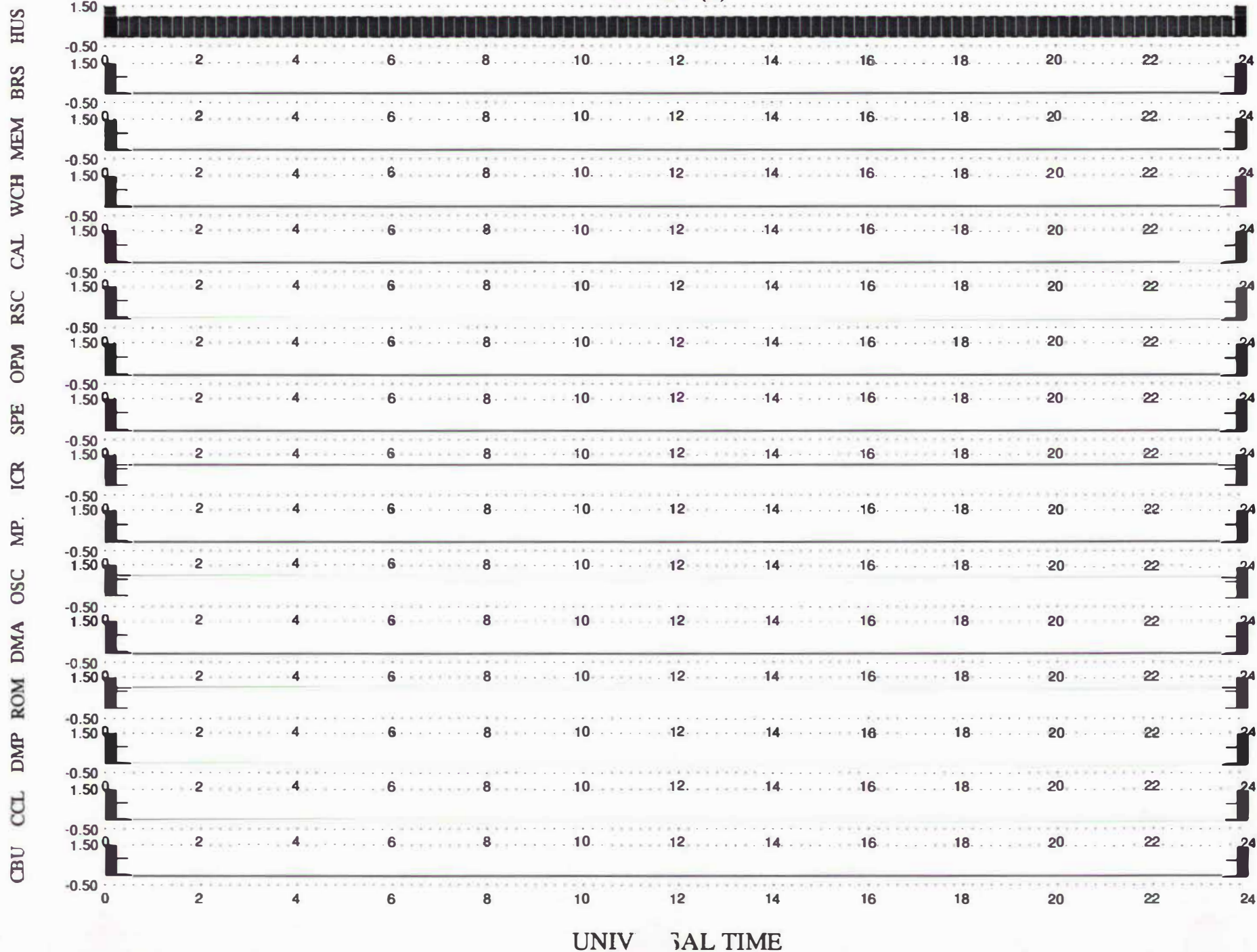
Current Time: 95/07/12, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

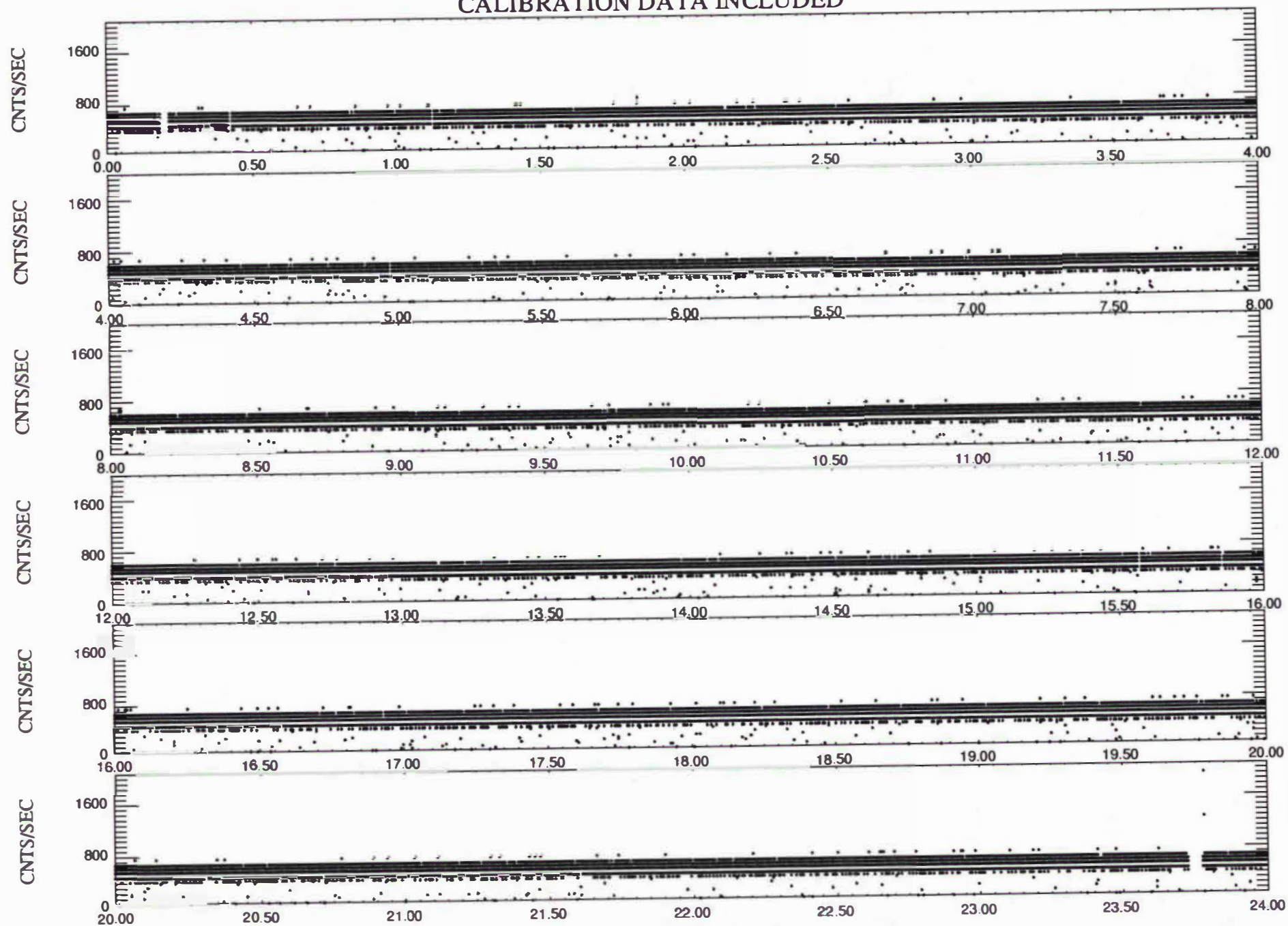
HUS MODES EDR day 191, year 1995 to day 191, year 1995
NO BURST (5)

1/25/96

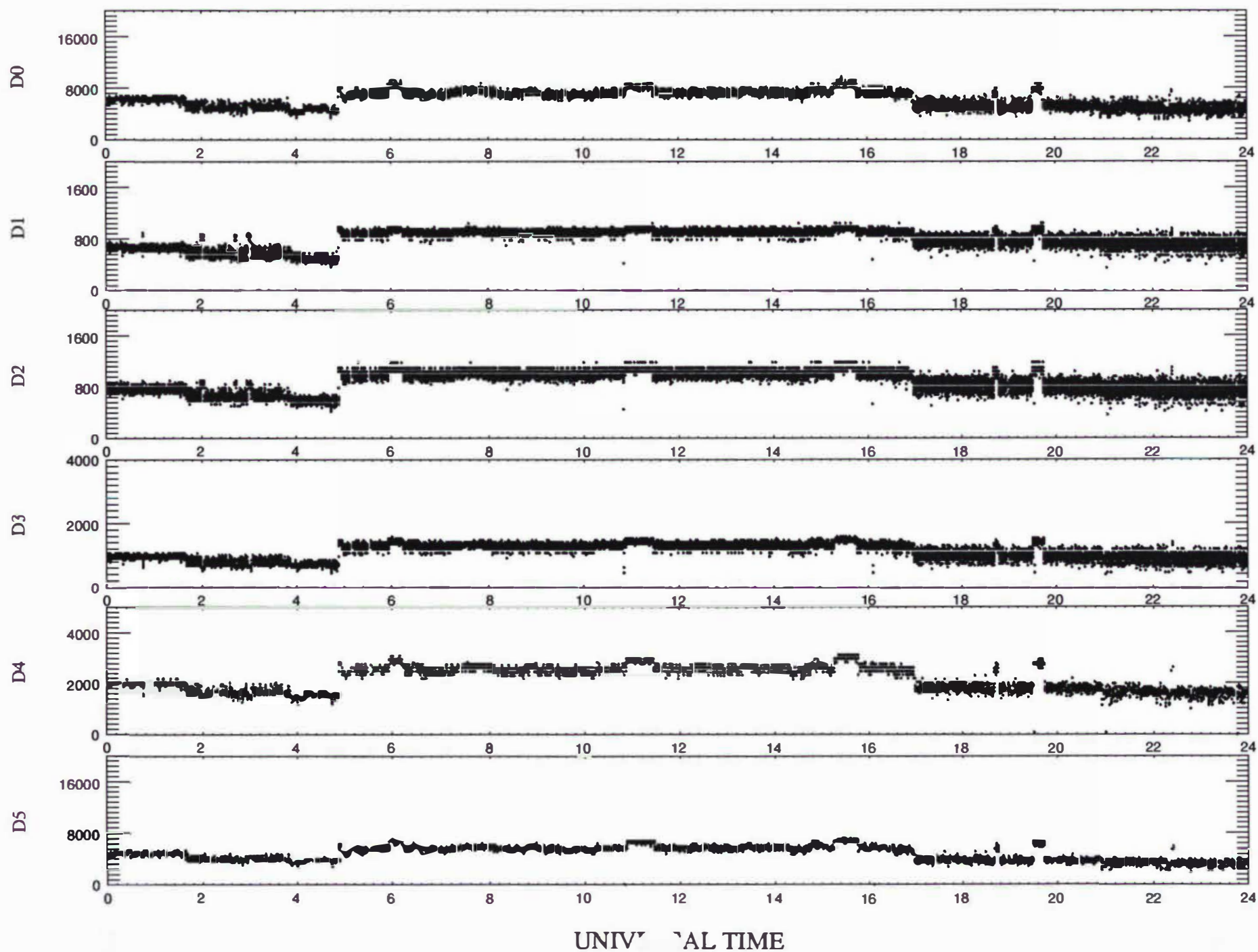


HUS 2A, MODE 1, NOT AVERAGED EDR day 191, year 1995 to day 191, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV CAL TIME



From DEAL@ssl.msfc.nasa.gov Wed Jul 12 11:45 PDT 1995
Date: Wed, 12 Jul 1995 13:44:58 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3663

RT

BATSEARCH PROGRAM

BATSE BURST # 3663
EVENT OF 1995 JUL 11 DAY OF YEAR=192
EVENT CROSSING TIME AT BATSE : 13789. S. OR 03:49:49.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 86.000 -24.000
BATSE PEAK COUNTING RATE: 9000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 11/ 7/ 95 IS:
RA= 48.147 DEC= 78.992 DIST= 2.108 AU
BATSE-ULYSSES DISTANCE = 315284865. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 74.84 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 275.04 SECS.
CROSSING TIME AT ULYSSES IS 14064. S. OR 03:54:24 +/- 230.41 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 11/ 7/ 95 IS:
RA= 174.703 DEC= 2.937 DIST= 1.722 AU
MARS-BATSE DISTANCE = 257558576. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 89.99 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 0.17 SECS.
CROSSING TIME AT MARS IS 13789. S. OR 03:49:49 +/- 149.16 SECONDS

BATSE BURST TRIGGER

NO.: 3663

TIME: TJD=9909 SECONDS=13789

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=93.1 AZIMUTH=33.3 ERROR= DEGREES

COMMENTS:

BURST LASTING ~ 230 S. MULTI PEAKED. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3663	950711	9909	13789	9000	086	-24	230

290 from BACODINE

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 17 '98 Helio corr removed

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 starts

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

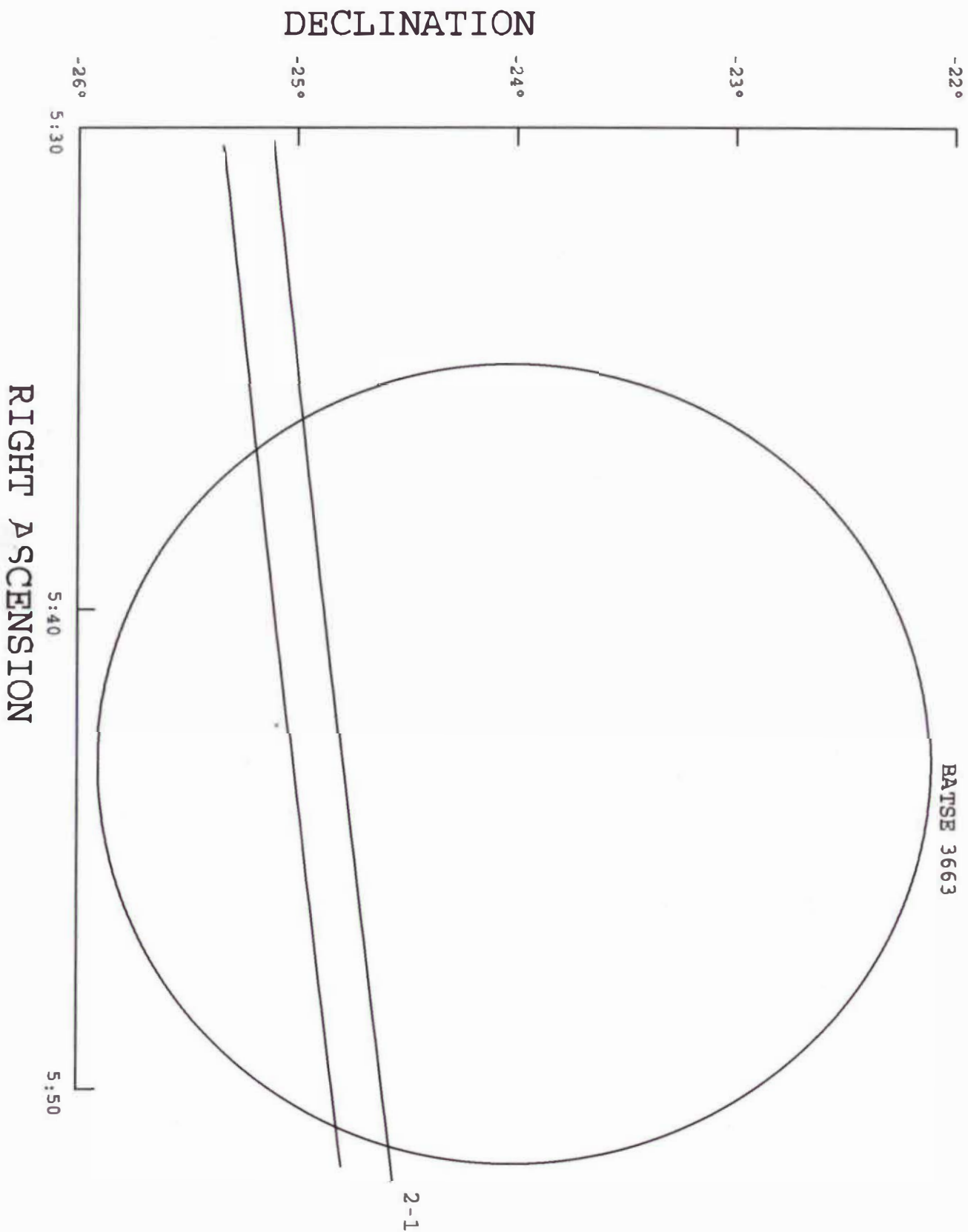
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF JUL 11, 1995 3:53

17 / 2/98



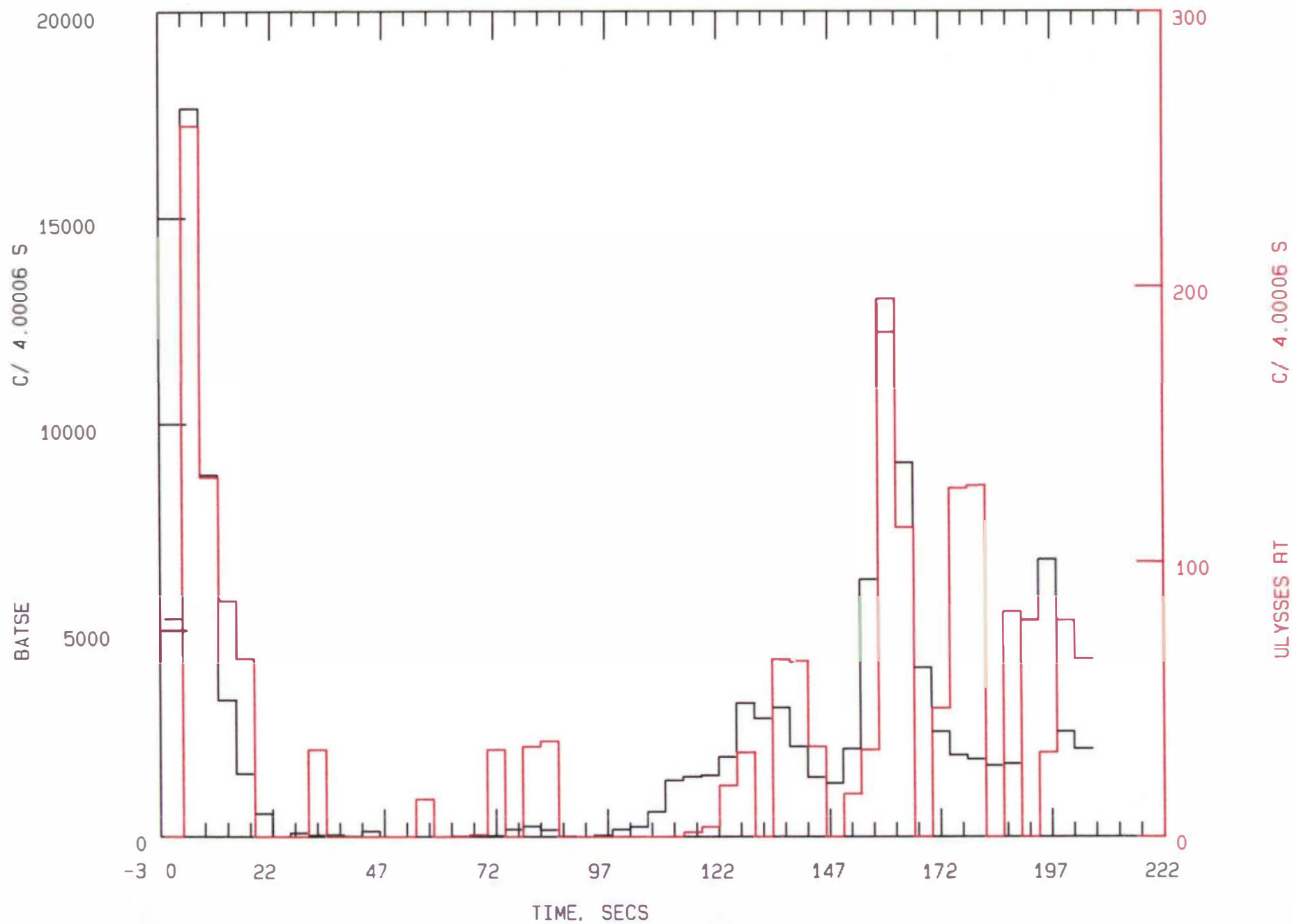
BATSE

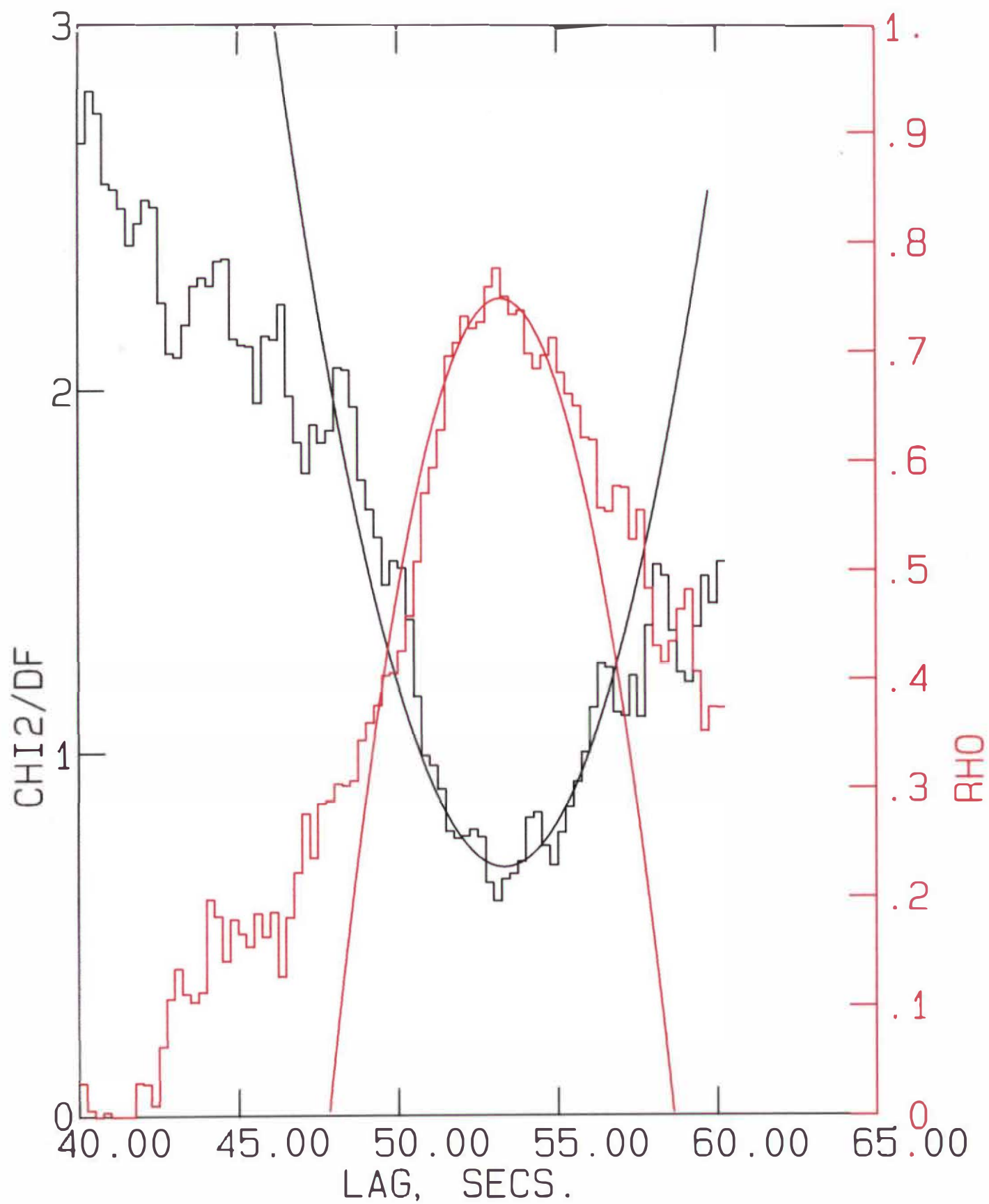
-ULYSSES RT CORRELATION

11/ 7/95

13789.106

17/ 2/98





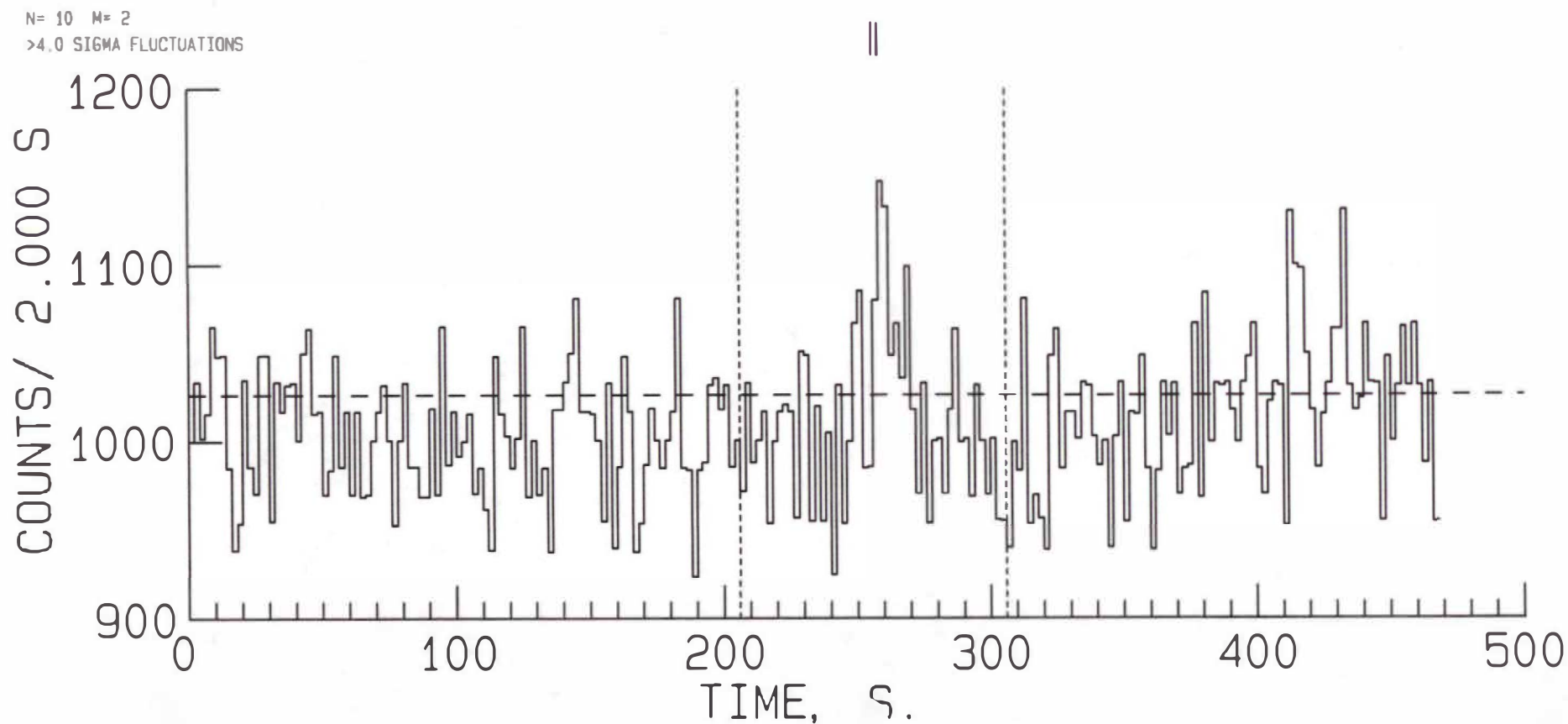
ULYSSES RT

17 / 2 / 98

11 / 7 / 95 13824.029 s

0.250 S INTERVALS REGROUPED BY 8

21- 142 keV



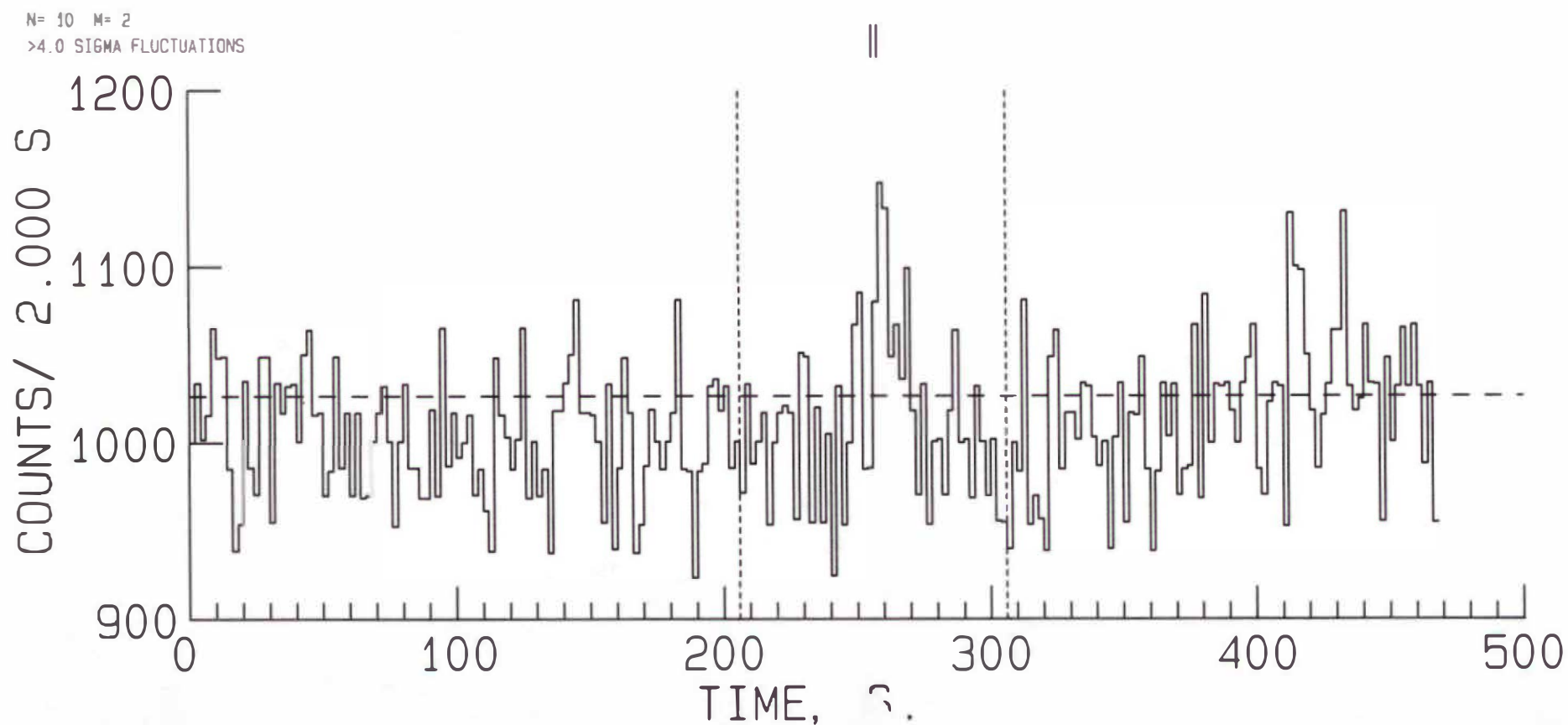
ULYSSES RT

17 / 2 / 98

11 / 7 / 95 13824.029 s

0.250 S INTERVALS REGROUPED BY 8

21- 142 keV



BATSE

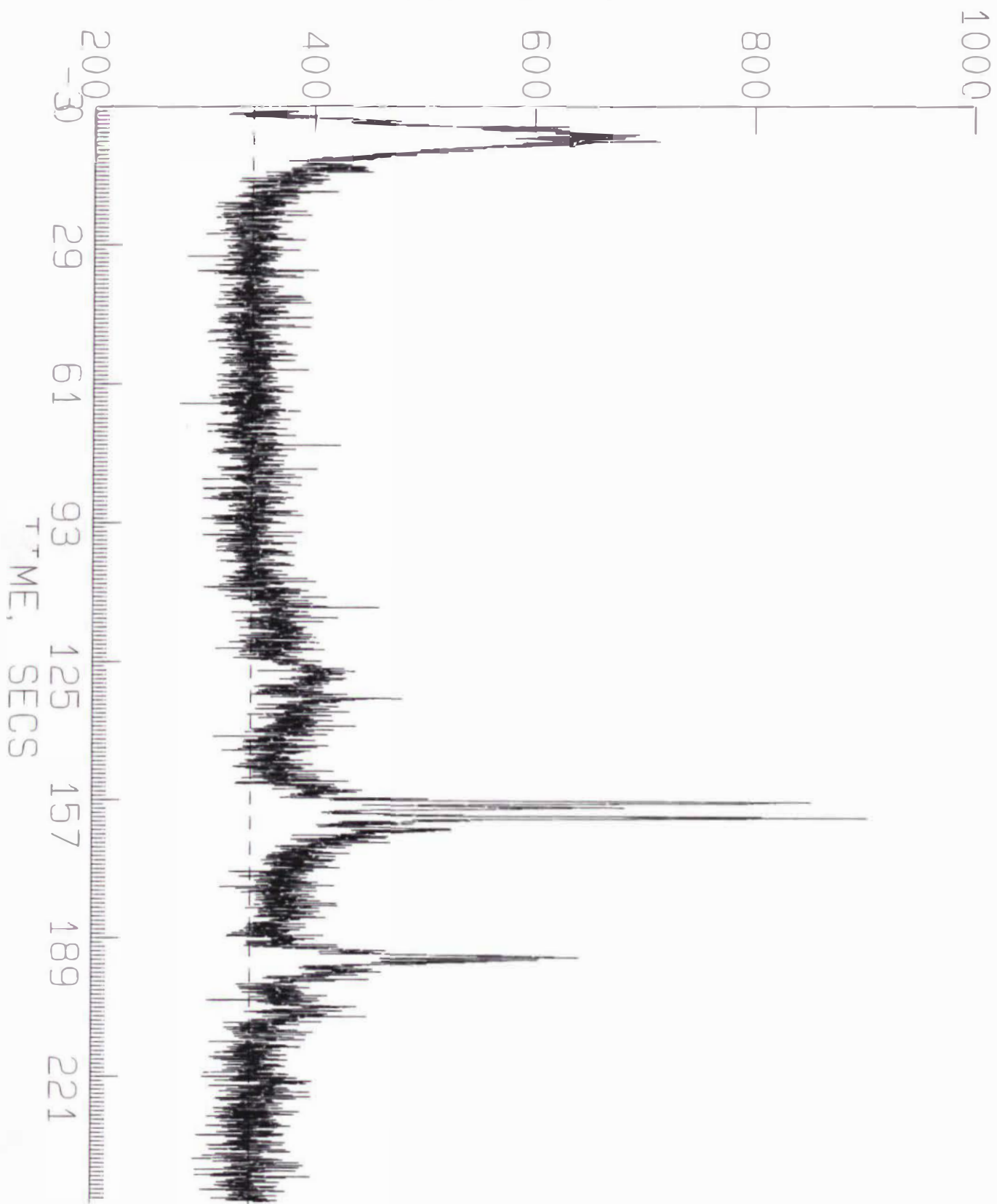
11/07/95

13789.106

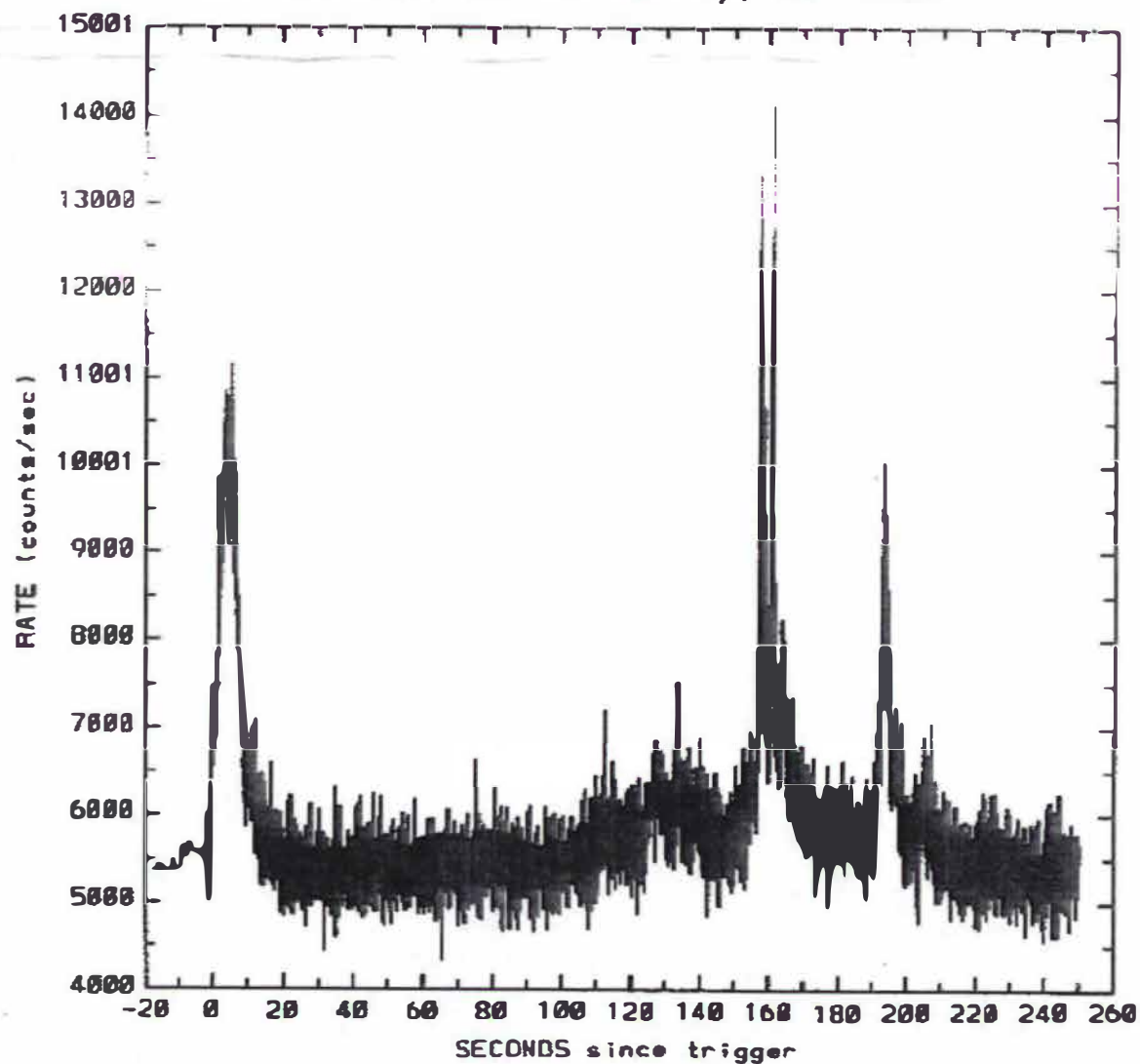
25- 100 keV

COUNTS/ .064 S

15 / 7 / 95



DISCSC Data for K. Hurley, No. 3663

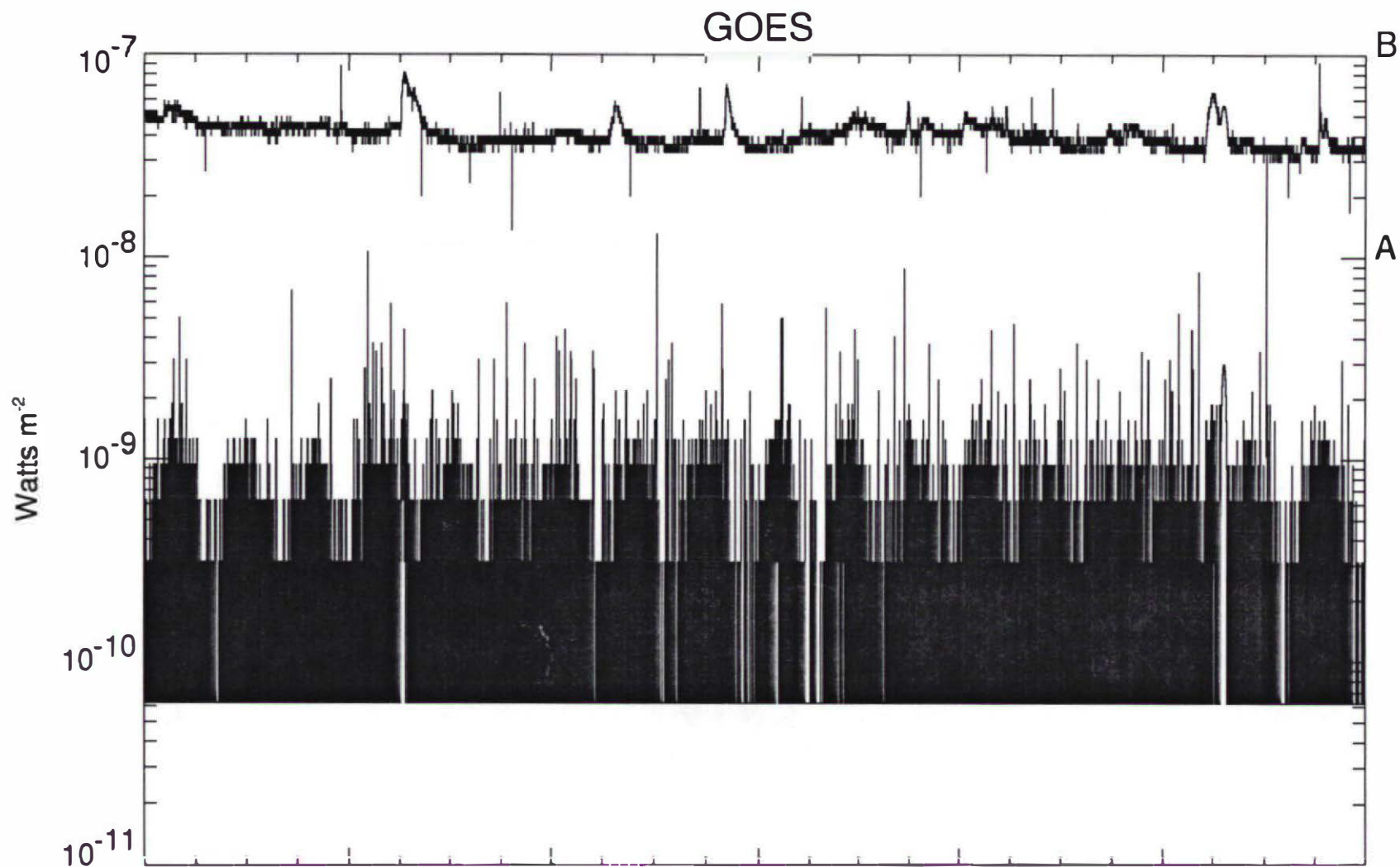


14-JUL-1995 18:33:52

Created by MOPS BD
(Burst Display)
Version 12.25

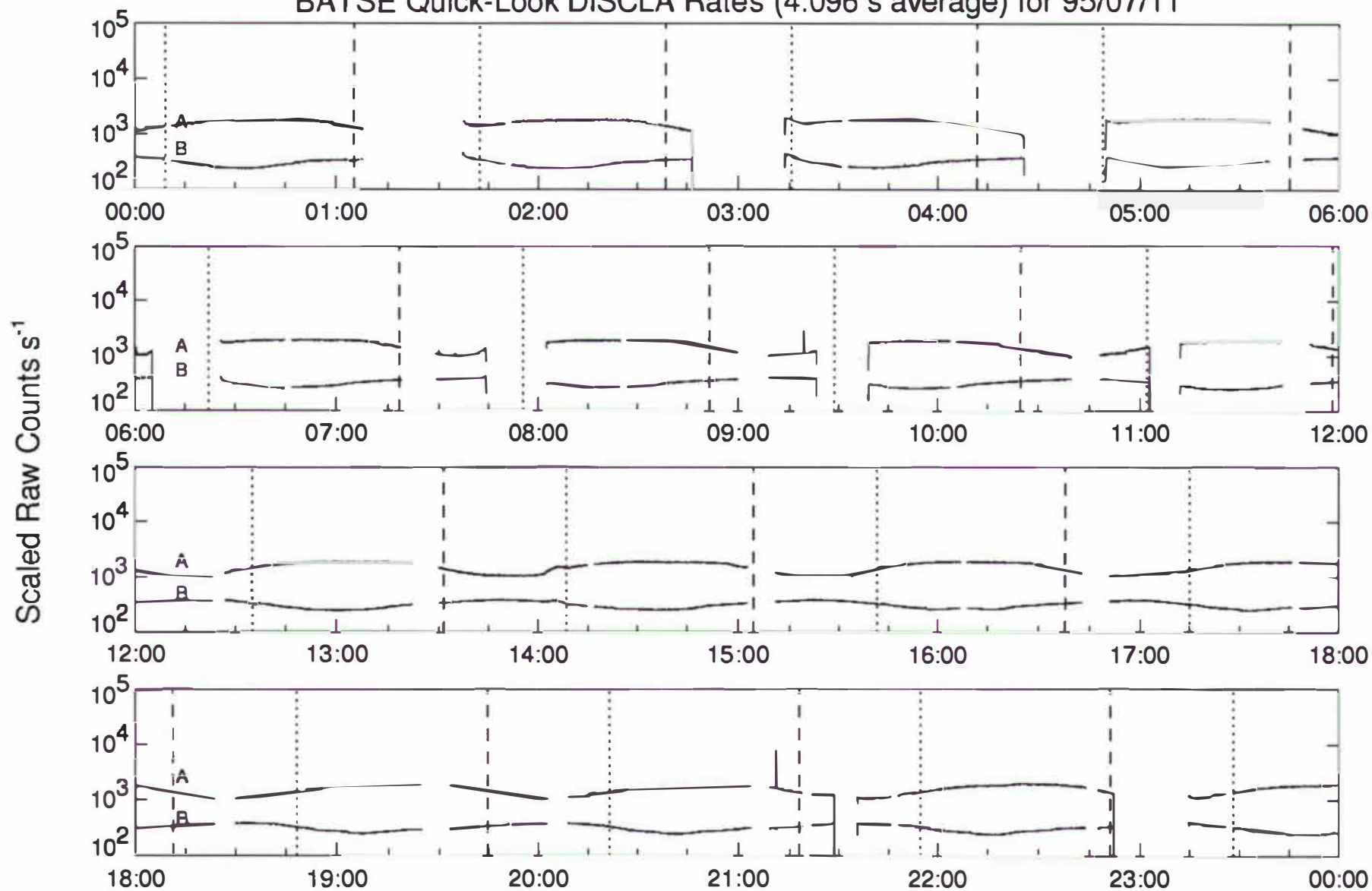
Trigger # 3663

Trigger Time:
9909 / 13769.106Burst Data Type:
DISCSCDeadtime
Corrected: NBackground Data
Type: PREB + DISCLAMinimum Integ. Time:
8.064 secondsDetectors [7..8]:
-----10Discriminators:
(1, 2)Quality Mask:
80ISP1



Data Start: 95/07/11, 0000:00 Plot created: 95/07/13, 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 95/07/11



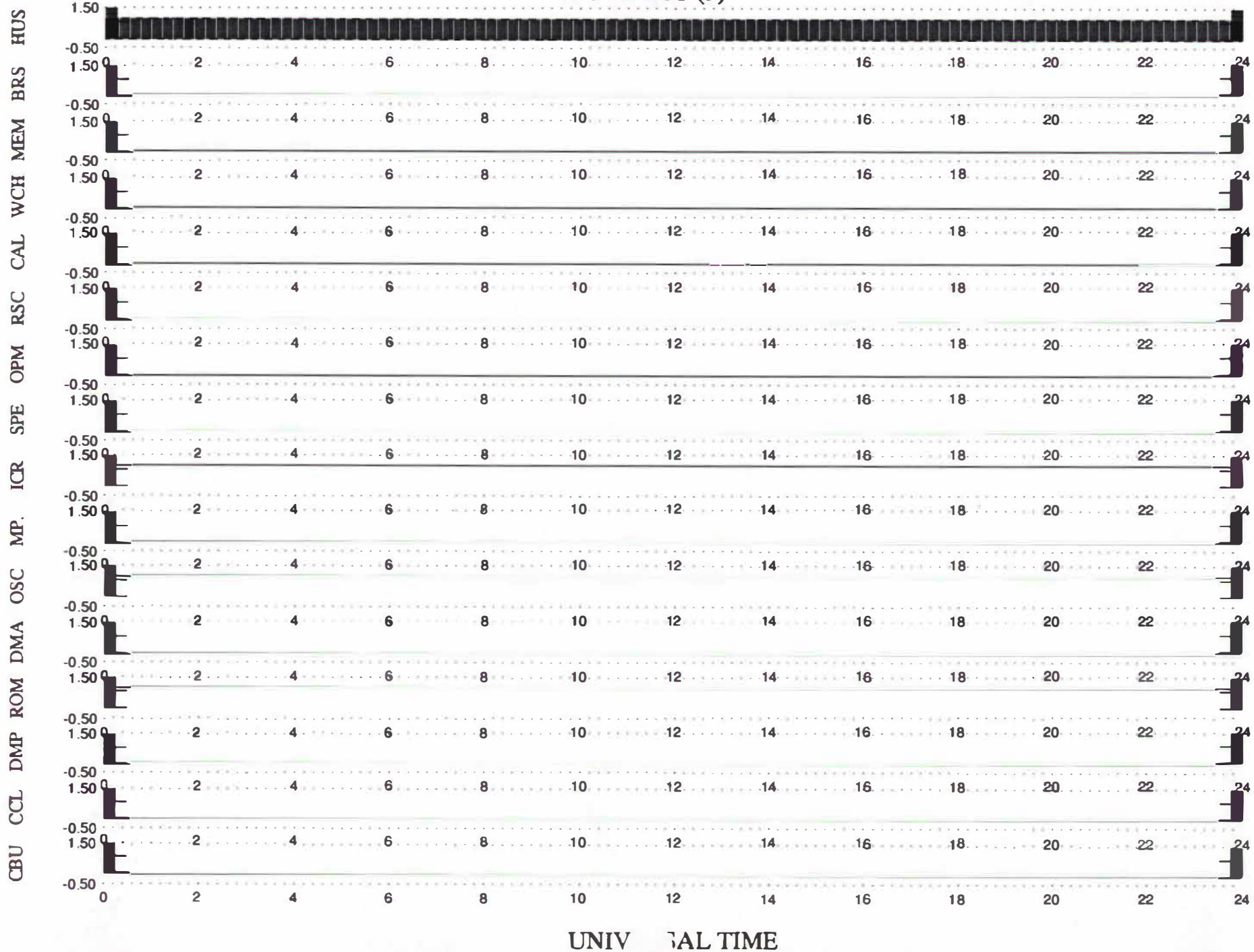
Current Time: 95/07/13, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

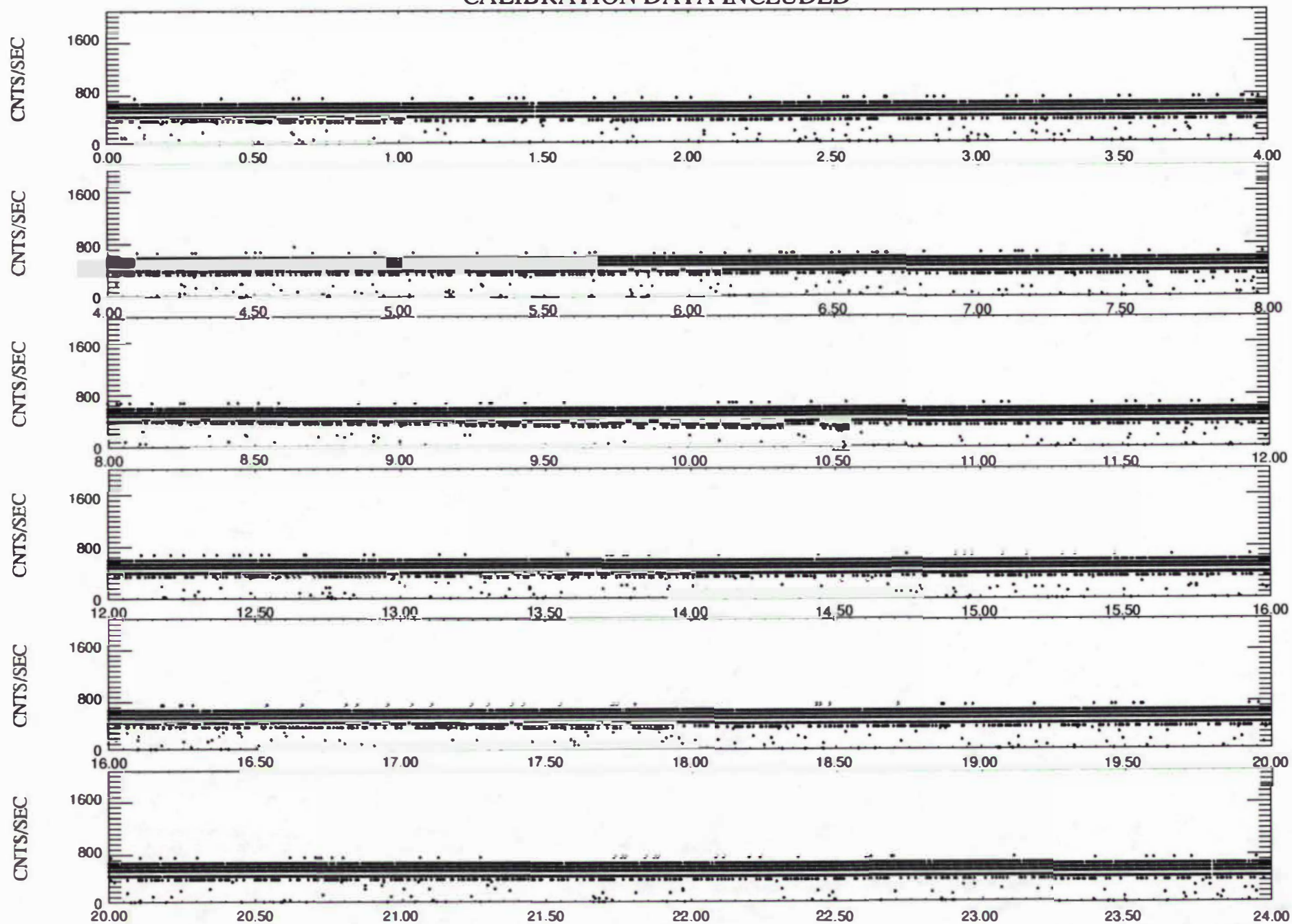
HUS MODES EDR day 192, year 1995 to day 192, year 1995
NO BURST (5)

1/25/96

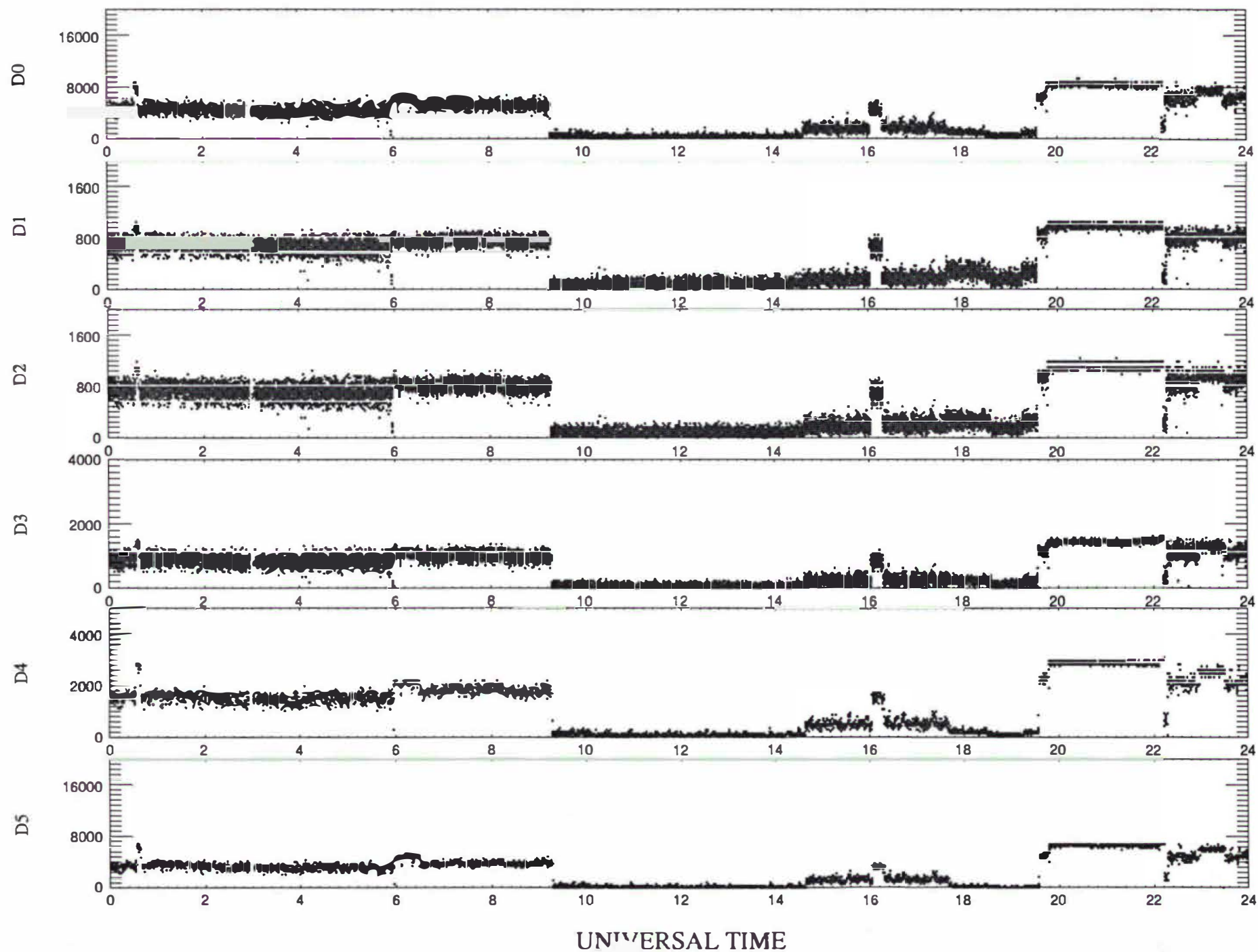


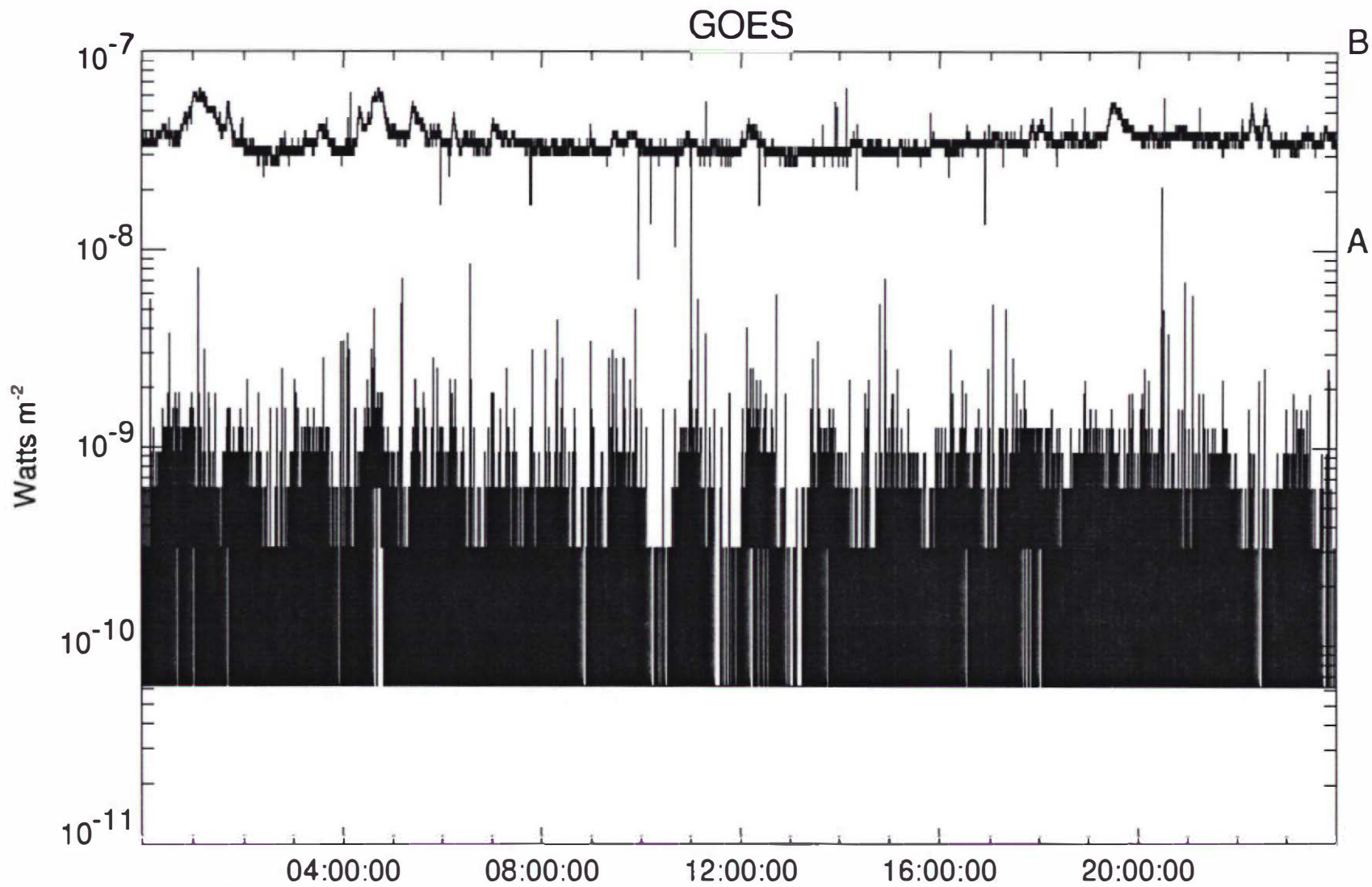
HUS 2A, MODE 1, NOT AVERAGED EDR day 192, year 1995 to day 192, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. CAL TIME





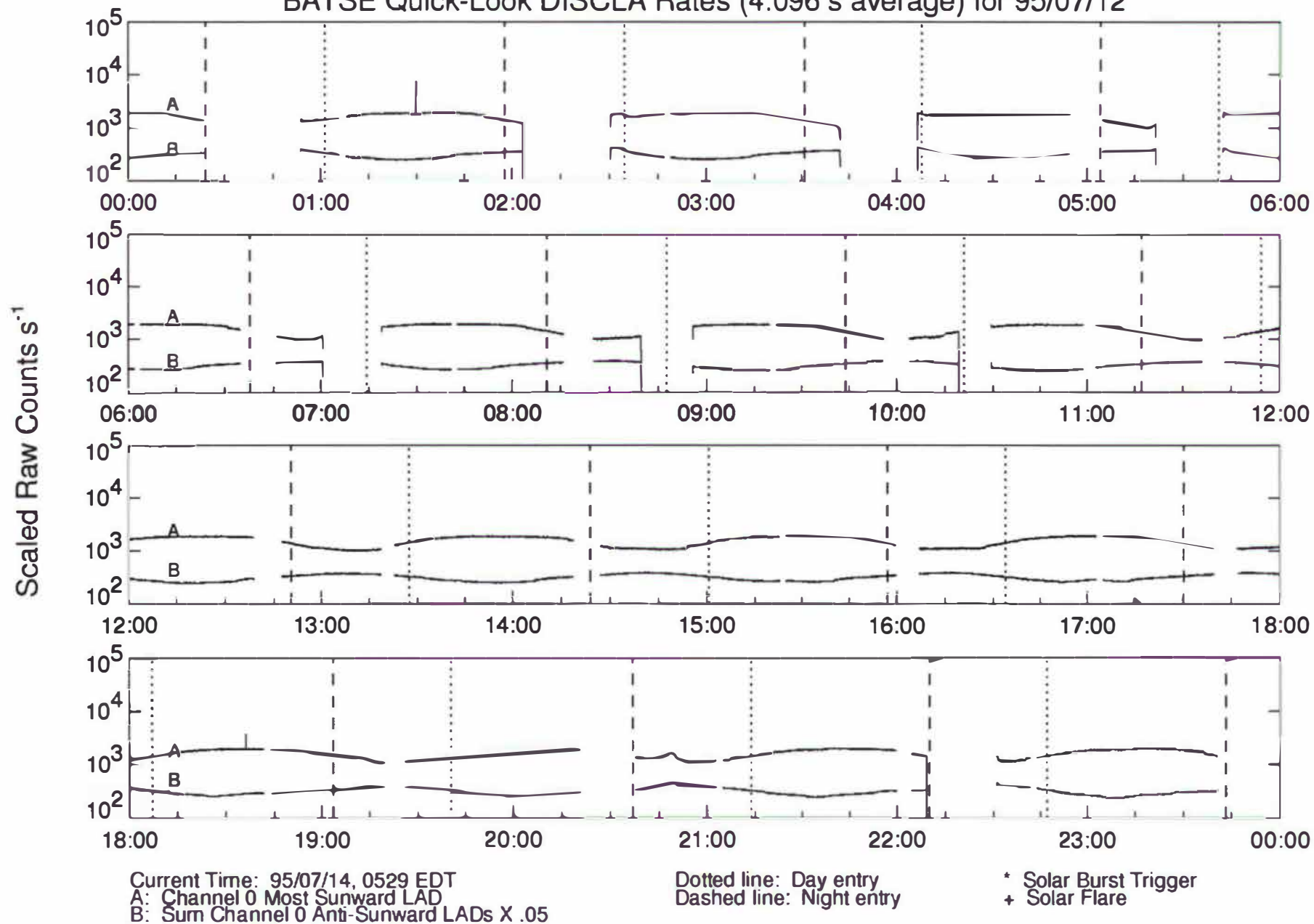
Data Start: 95/07/12, 0000:01

Plot created: 95/07/14, 0529

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

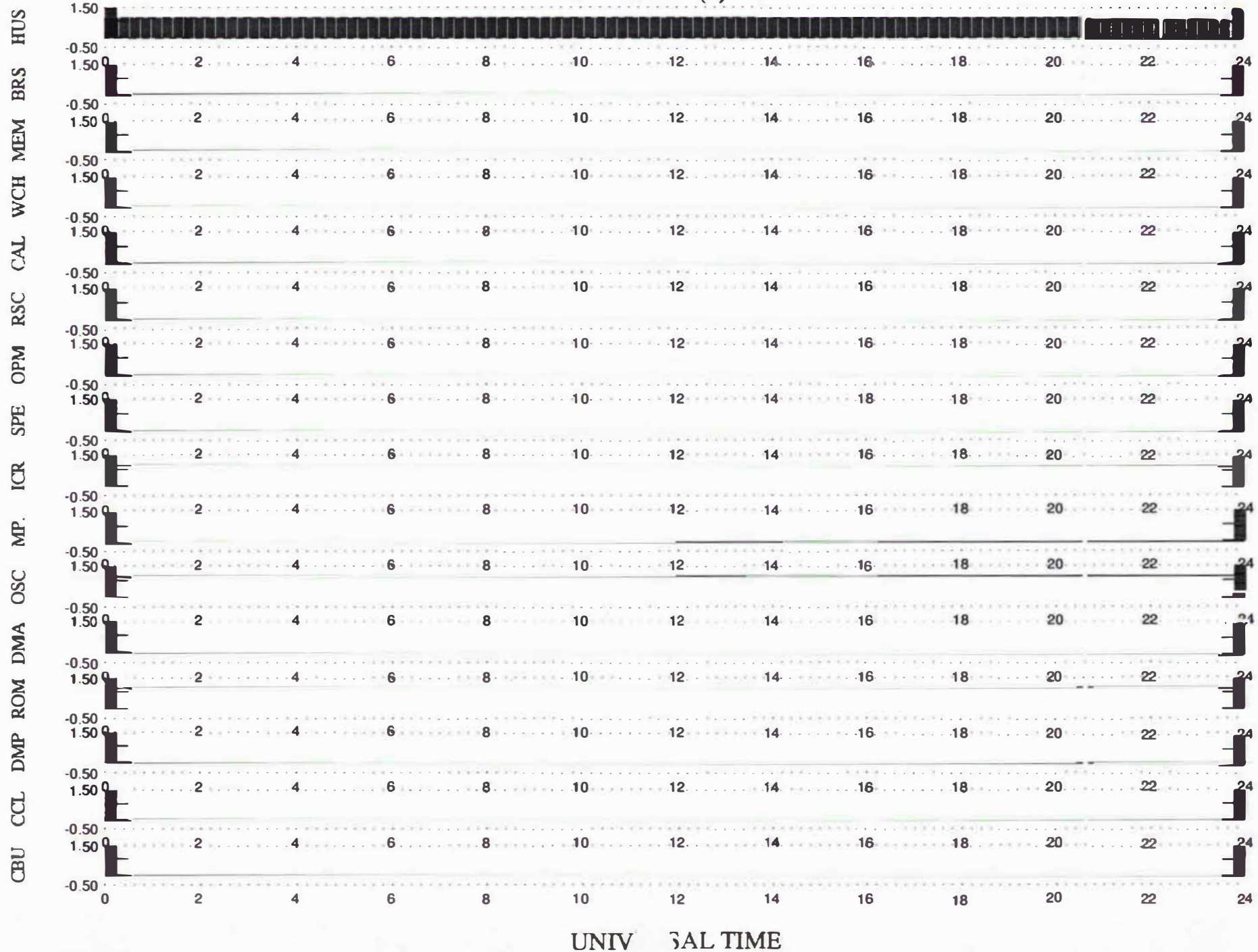
Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/12



HUS MODES EDR day 193, year 1995 to day 193, year 1995 NO BURST (5)

1/25/96

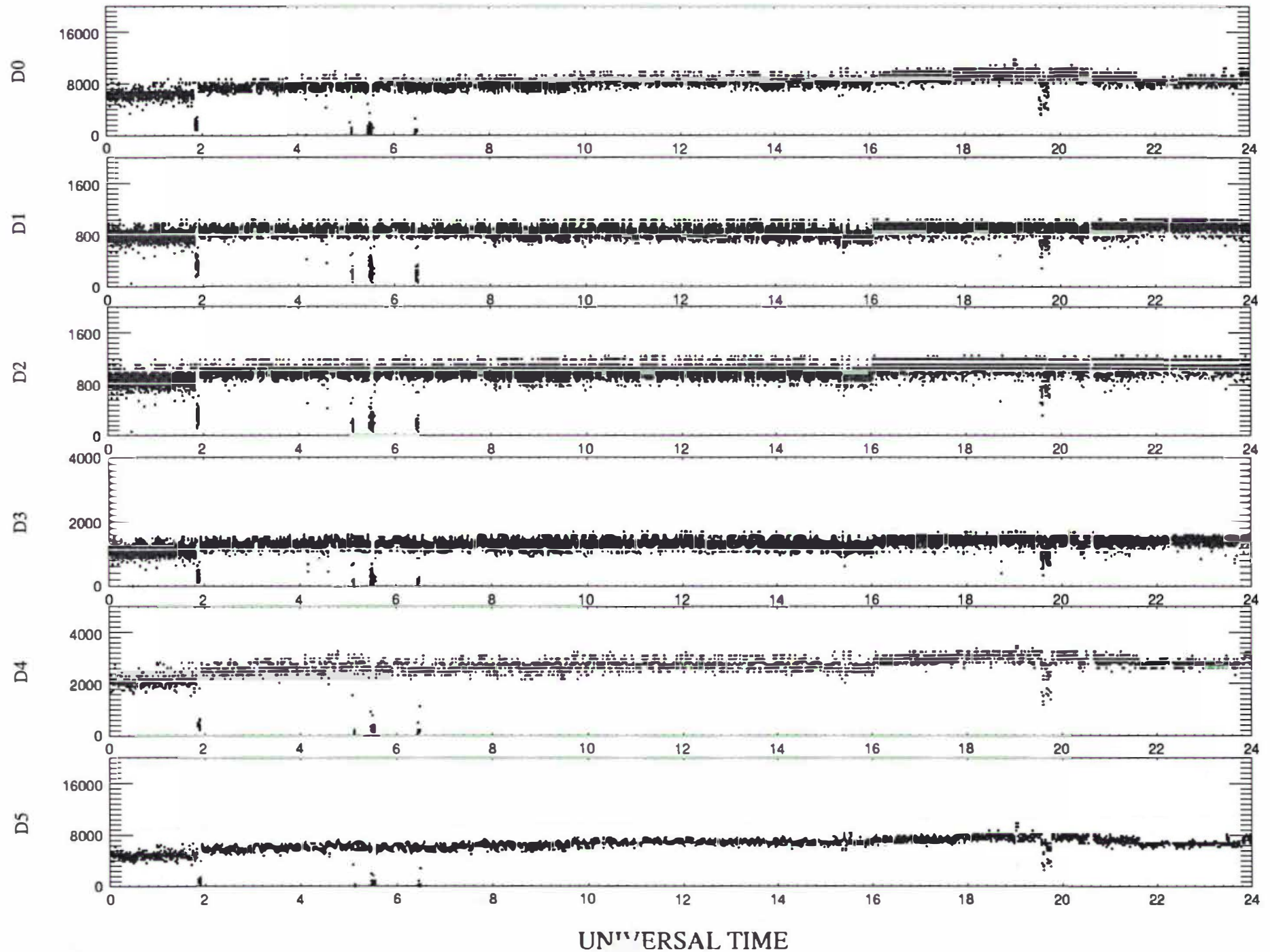


HUS 2A, MODE 1, NOT AVERAGED EDR day 193, year 1995 to day 193, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV 3AL TIME



Jul 14 11:21

batse.3664

1

From DEAL@ssl.msfc.nasa.gov Fri Jul 14 11:16 PDT 1995 RI
Return-Path: <DEAL@ssl.msfc.nasa.gov>
Received: from SSLMOR.MSFC.NASA.GOV by sunspot.ssl.berkeley.edu (SMI-8.6/SMI-SVR4)
id LAA01431; Fri, 14 Jul 1995 11:15:58 -0700
Date: Fri, 14 Jul 1995 13:15:53 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Message-Id: <950714131553.2020213e@SSLLES.MSFC.NASA.GOV>
Subject: Crossing Windows for BATSE Burst 3664
Content-Type: text
Content-Length: 1135
X-Lines: 26

BATSEARCH PROGRAM

BATSE BURST # 3664
EVENT OF 1995 JUL 13 DAY OF YEAR=194
EVENT CROSSING TIME AT BATSE : 32176. S. OR 08:56:16.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 287.000 30.000
BATSE PEAK COUNTING RATE: 6700 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 13/ 7/ 95 IS:
RA= 54.091 DEC= 80.200 DIST= 2.120 AU
BATSE-ULYSSES DISTANCE = 317178698. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=113.82 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -427.22 SECS.
CROSSING TIME AT ULYSSES IS 31749. S. OR 08:49:08 +/- 211.56 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 13/ 7/ 95 IS:
RA= 175.743 DEC= 2.454 DIST= 1.735 AU
MARS-BATSE DISTANCE = 259608320. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 73.00 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 253.11 SECS.
CROSSING TIME AT MARS IS 32429. S. OR 09:00:29 +/- 147.62 SECONDS

BATSE BURST TRIGGER

NO.: 3664

TIME: TJD=9911 SECONDS=32176

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=104.1 AZIMUTH=204.0 ERROR= DEGREES

COMMENTS:

BURST WITH TWO PREBURSTS. ENTIRE EVENT LASTING ~ 140 S. NOT VISIBLE ABOVE
300 keV

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3664	950713	9911	32176	6700	287	+30	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
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95	11	7	BGR	27298		
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95	11	18	BGR	82560		
95	11	19	176	29831.402		3912
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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		

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Mime-Version: 1.0

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94	11	26	8	44557.952	44521	3298 trig.
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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 17 '28

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?

From Michael.Briggs@iss.msfc.nasa.gov Sat Mar 7 19:49 PST 1998
From: "Briggs, Michael S." <Michael.Briggs@iss.msfc.nasa.gov>
To: "'Hurley, Kevin'" <khurley@sunspot.ssl.berkeley.edu>
Subject: 3590 & 3664
e: Sat, 7 Mar 1998 21:49:15 -0600
MIME-Version: 1.0

Hello Kevin,

Actually, these don't effect the 3B paper because they are post-3B bursts.

But your Oct 97 4B catalog has the wrong BATSE locations. The current locations are on our web page under "Current Catalog". The "4B" catalog on the web is older and has a wrong location for one of them.

The correct locations are: 3590, 88.52, -81.81, 0.98
3664 286.67, 30.04, 2.14

The "current" web catalog has correct locations EXCEPT for the ones that are being relocated with 6 detectors. The intersection of these events with the 4B IPN database is 44. These revised locations have begun to appear on the "current" web catalog.

--Michael

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

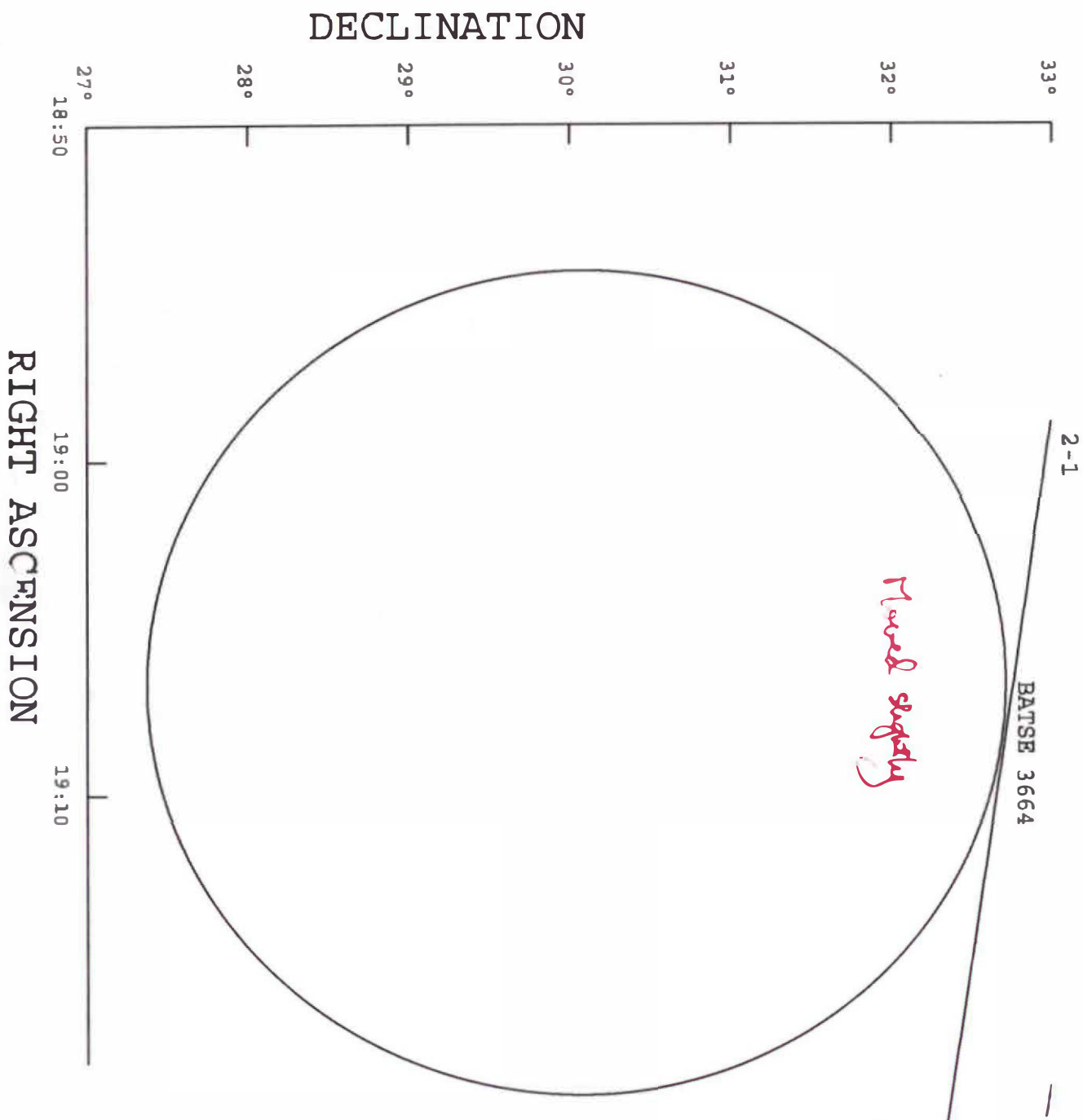
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF JUL 13, 1995 8:47

17/ 2/98



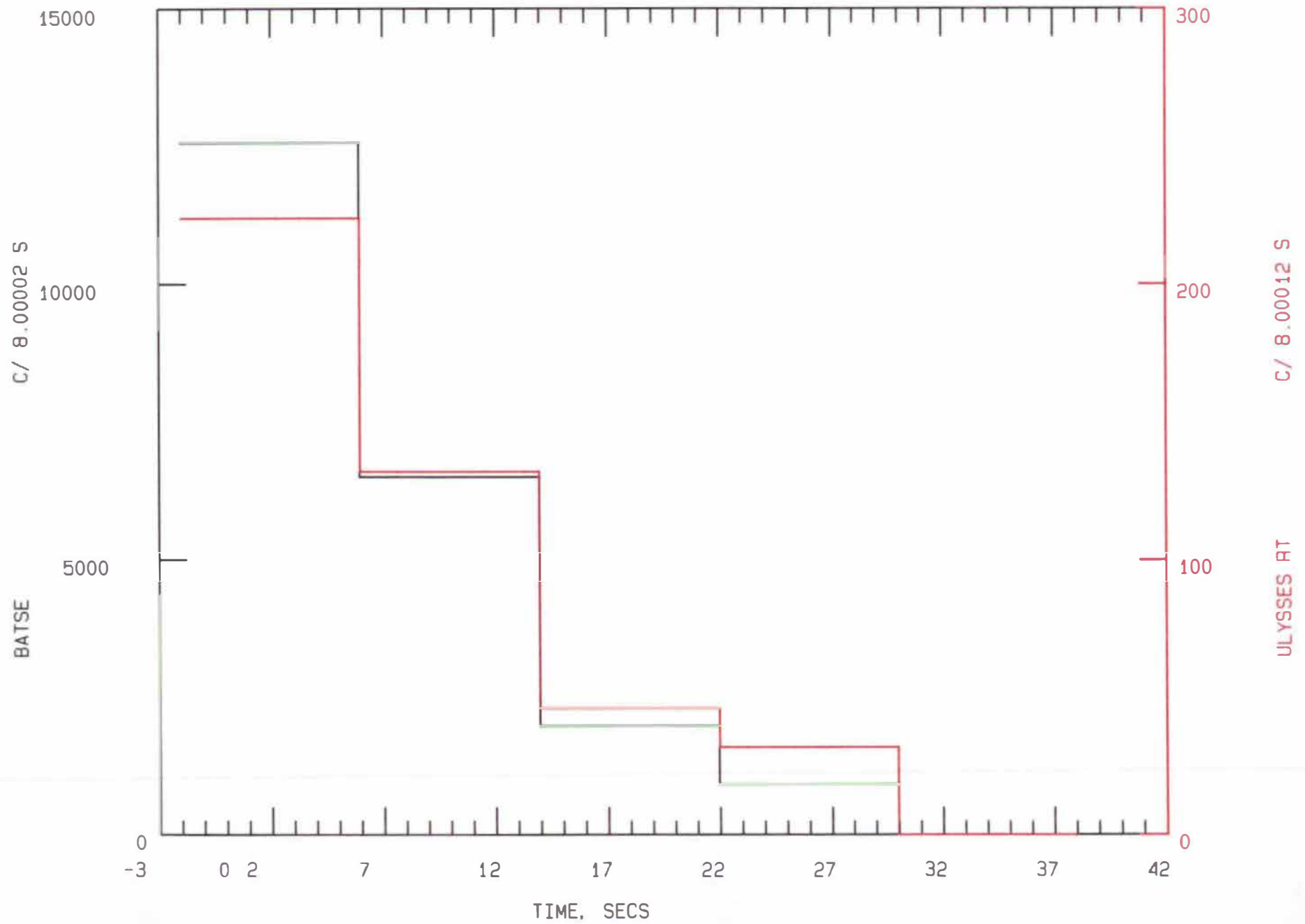
BATSE

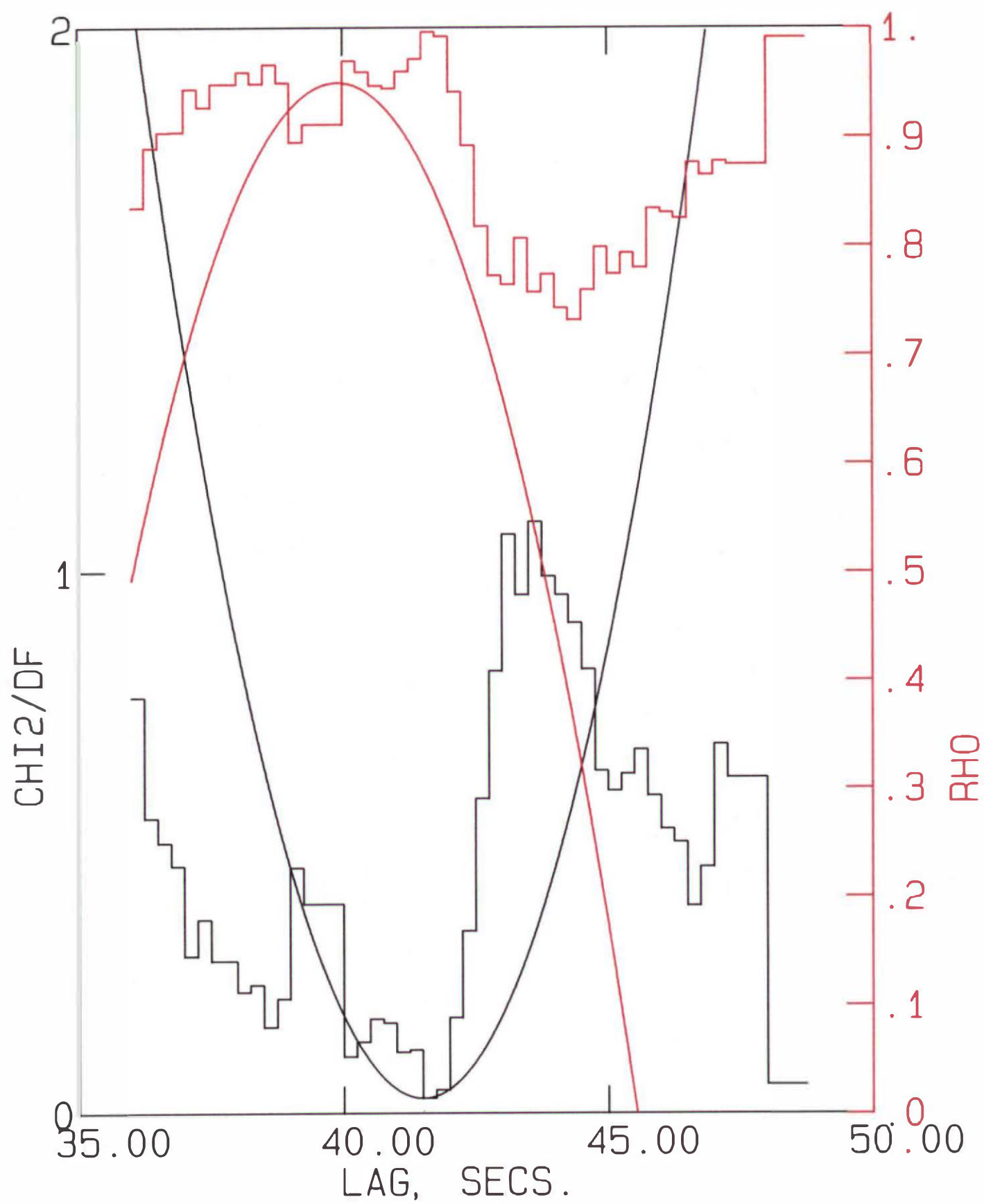
-ULYSSES RT CORRELATION

13/ 7/95

32176.562

17/ 2/98





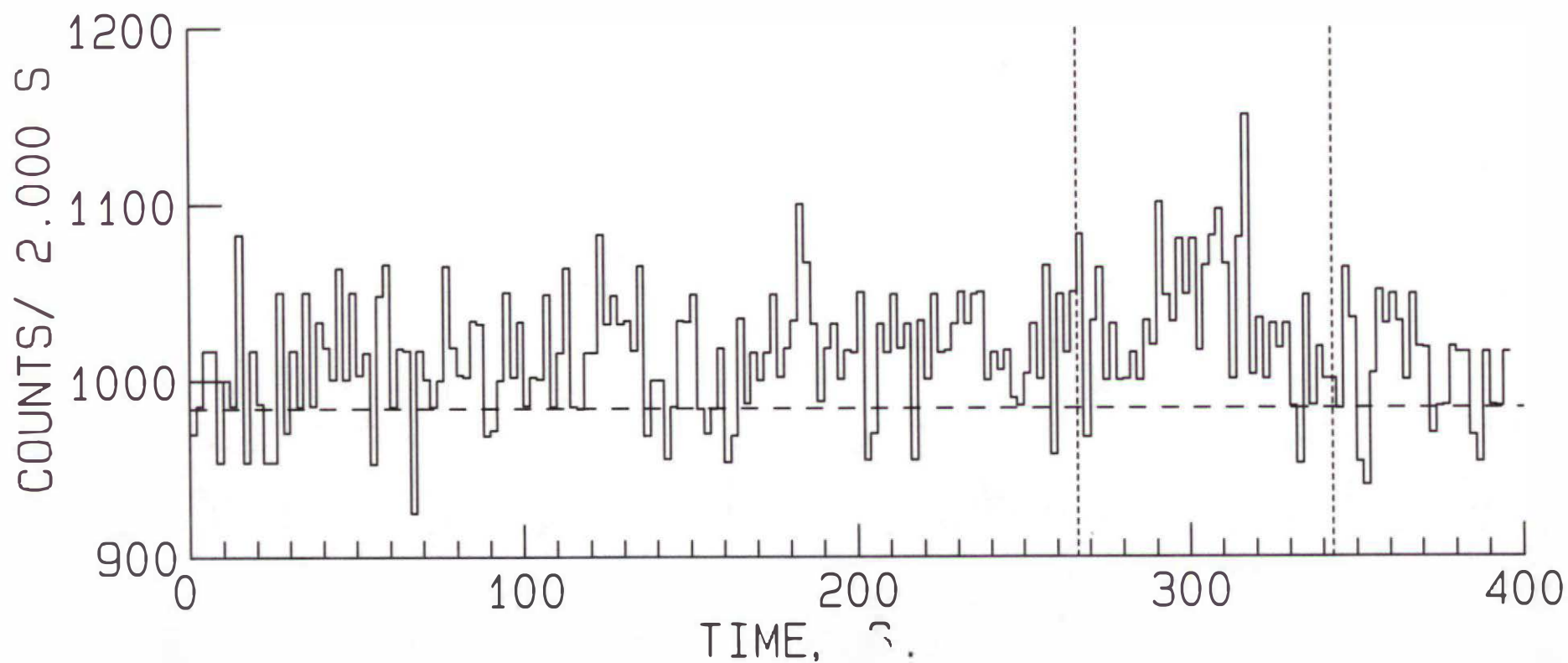
ULYSSES RT

17 / 2 / 98

13 / 7 / 95 31392.125 s

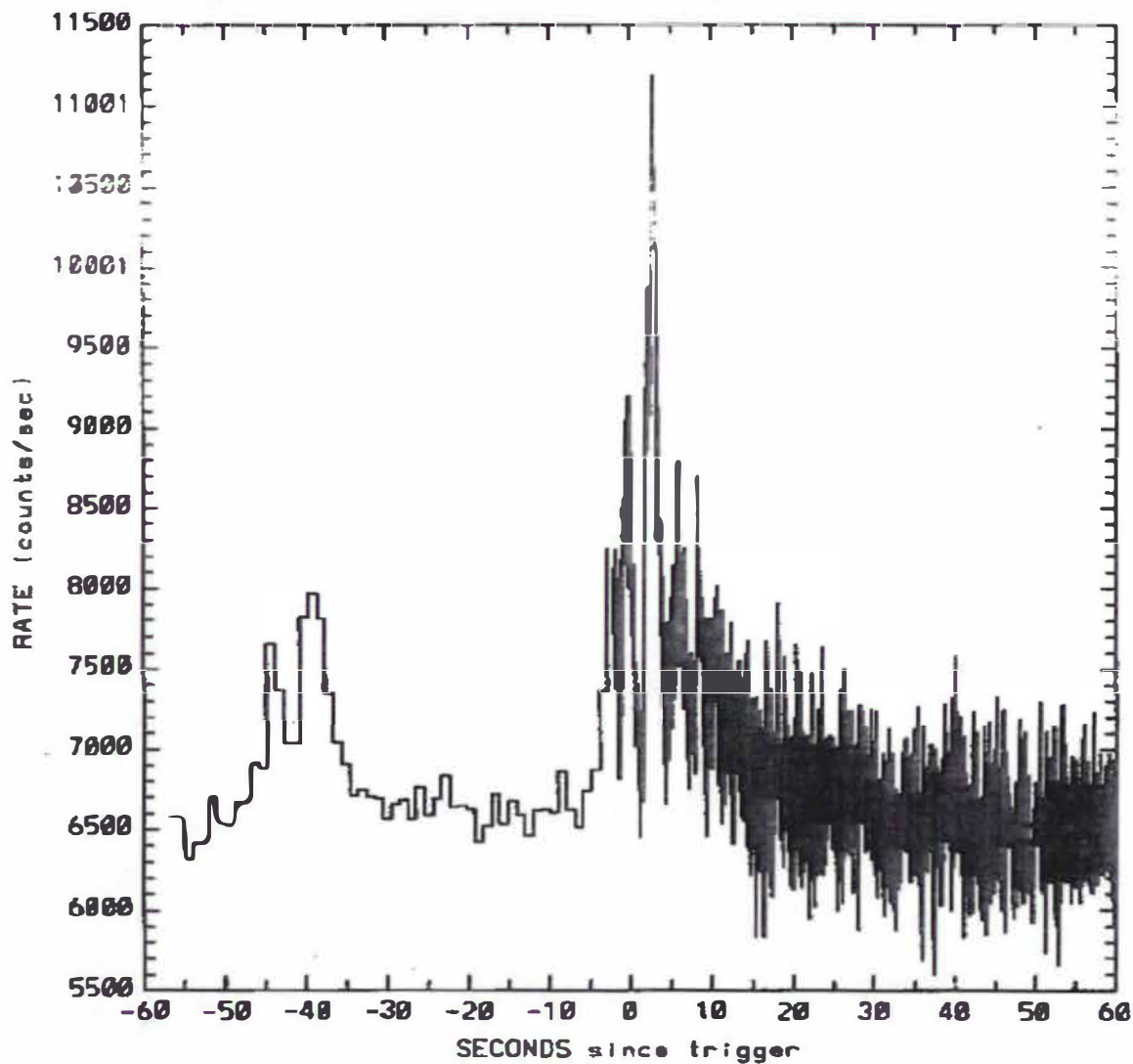
0.250 S INTERVALS REGROUPED BY 8

21- 142 keV



950713

DISCSC Data for K. Hurley, No. 3664



14-JUL-1995 18:41:24

Created by MOPS 80
 (Burst Display)
 Version 12.25

Trigger: 3664

Trigger Time:
 950713 32075.502

Burst Data Type:
 DISCSC

Deadtime
 Corrected: N

Background Data
 Type: PREB + DISCLA

Minimum Integ. Time:
 0.064 second(s)

Detectors [7..8].
 76-----

Discriminators:
 [1 , 2]

Quality Mask:
 8DISP1

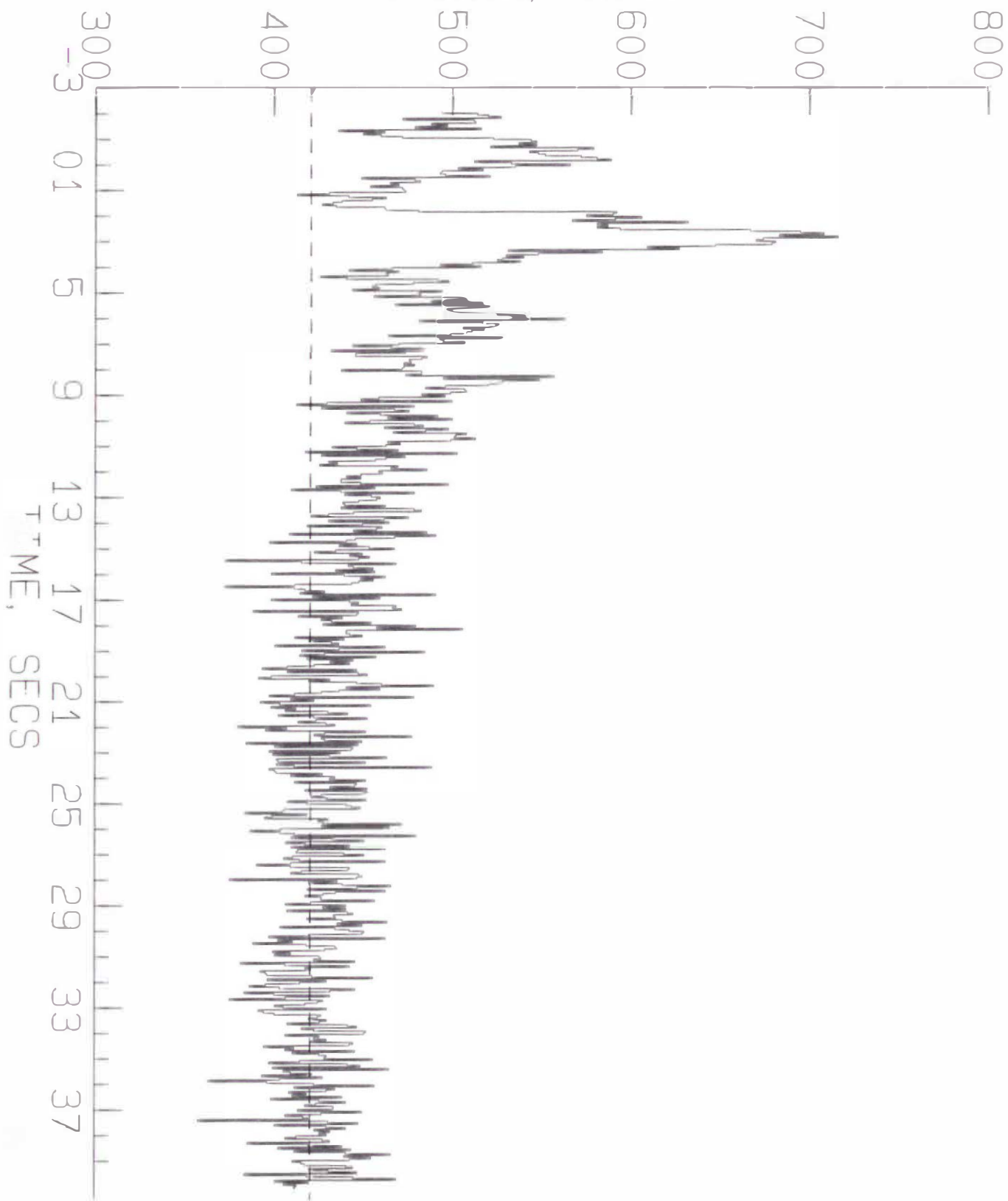
BATSE

13/07/95

32176.562

25- 100 keV

COUNTS/ .064 S



Date: Aug 22 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

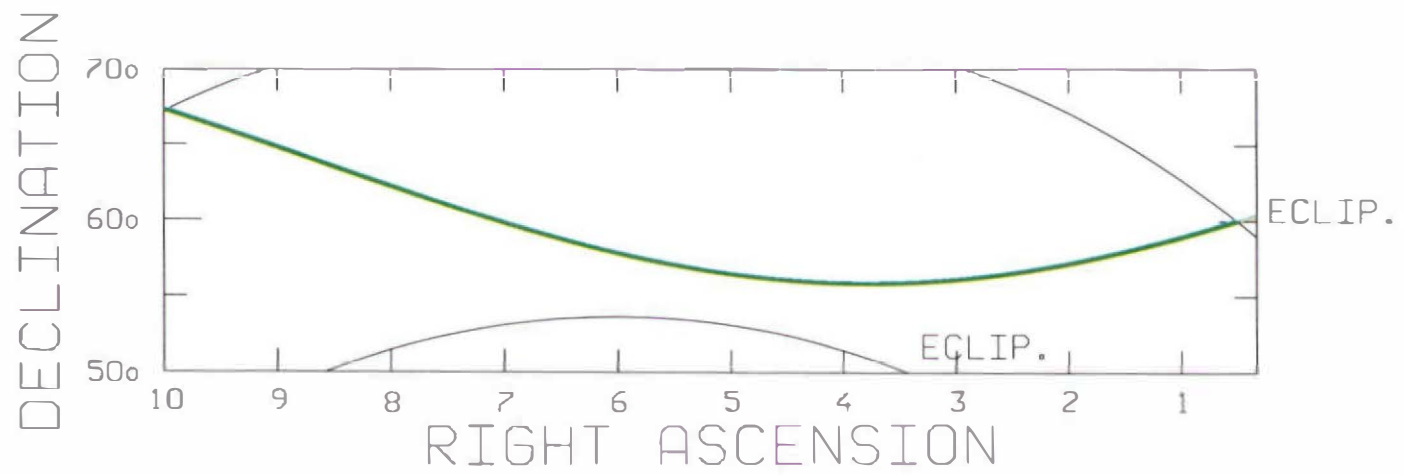
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

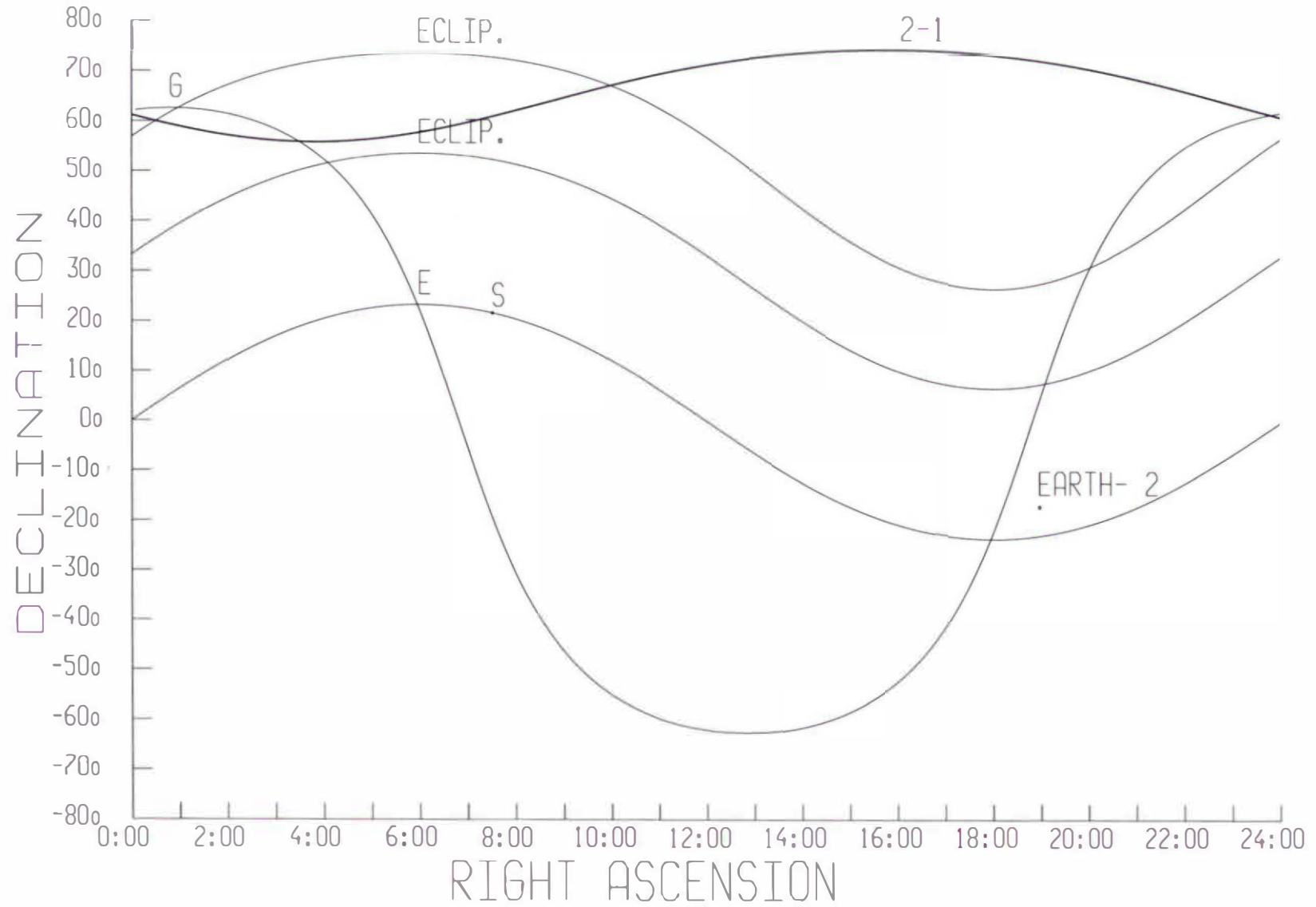
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

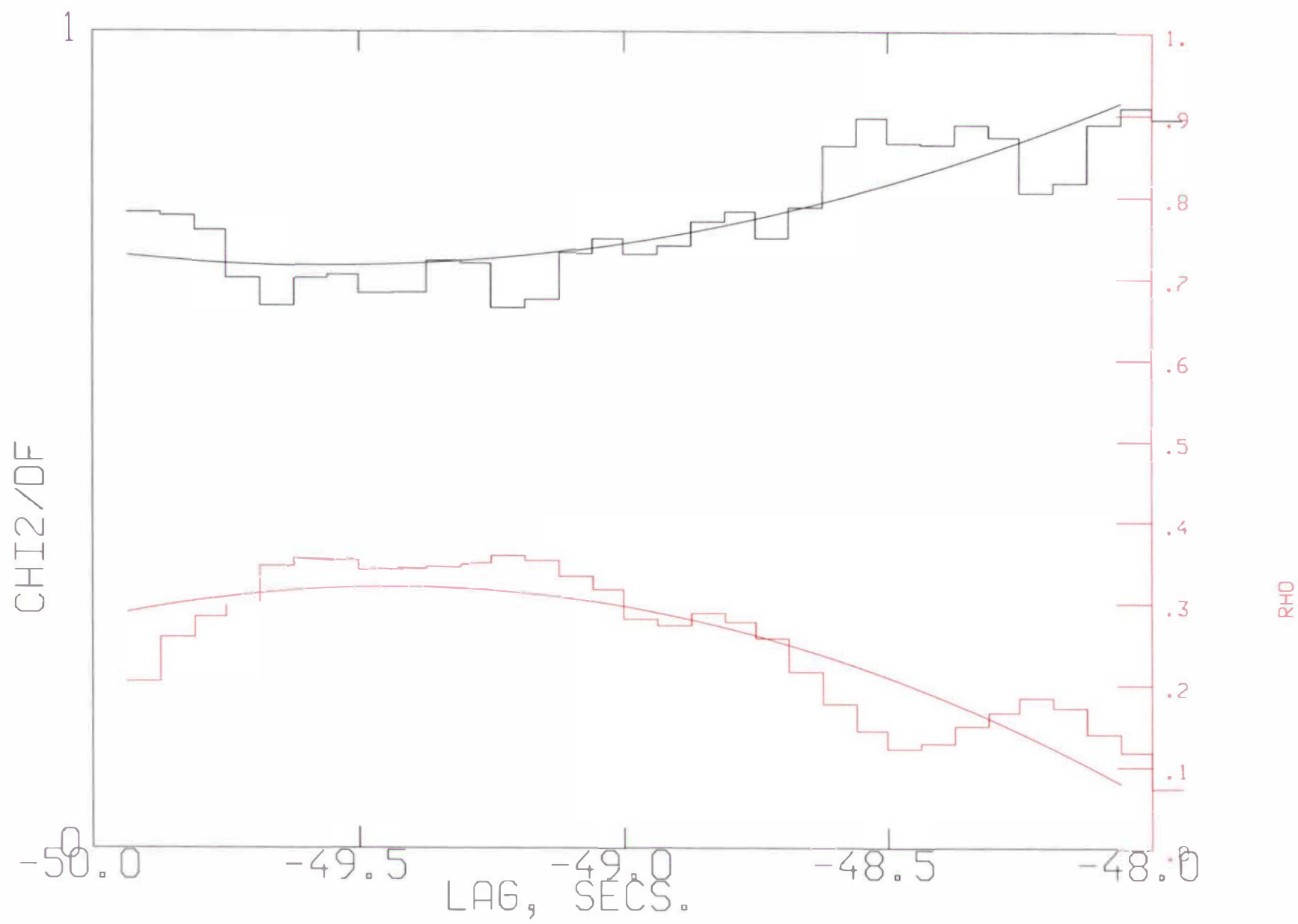


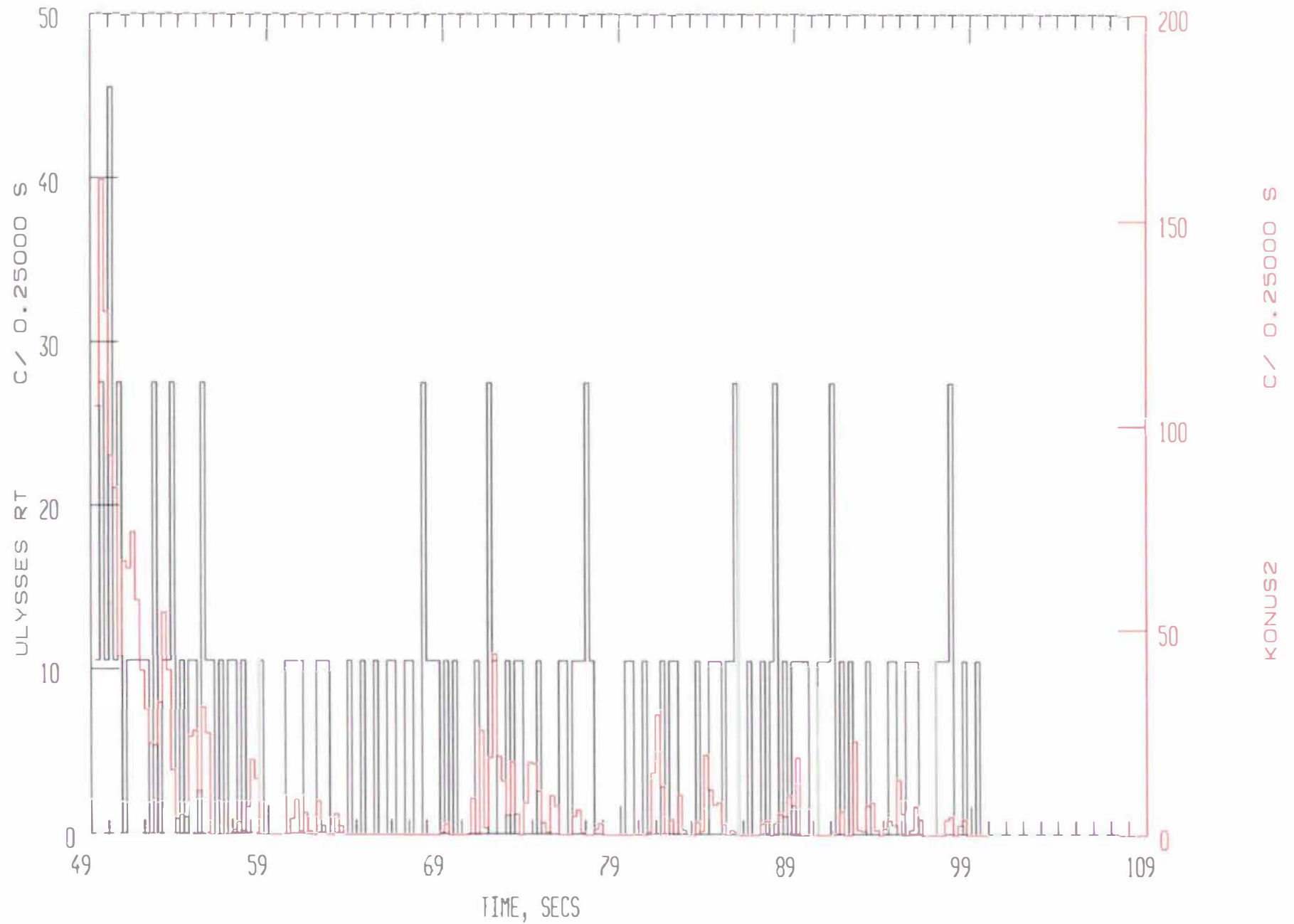
EVENT OF JUL 13, 1995 21:23

29/08/2011

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







KONUS1 19950713 77076

ULYSSES RT

27/08/11

13/07/95 76968.203 s

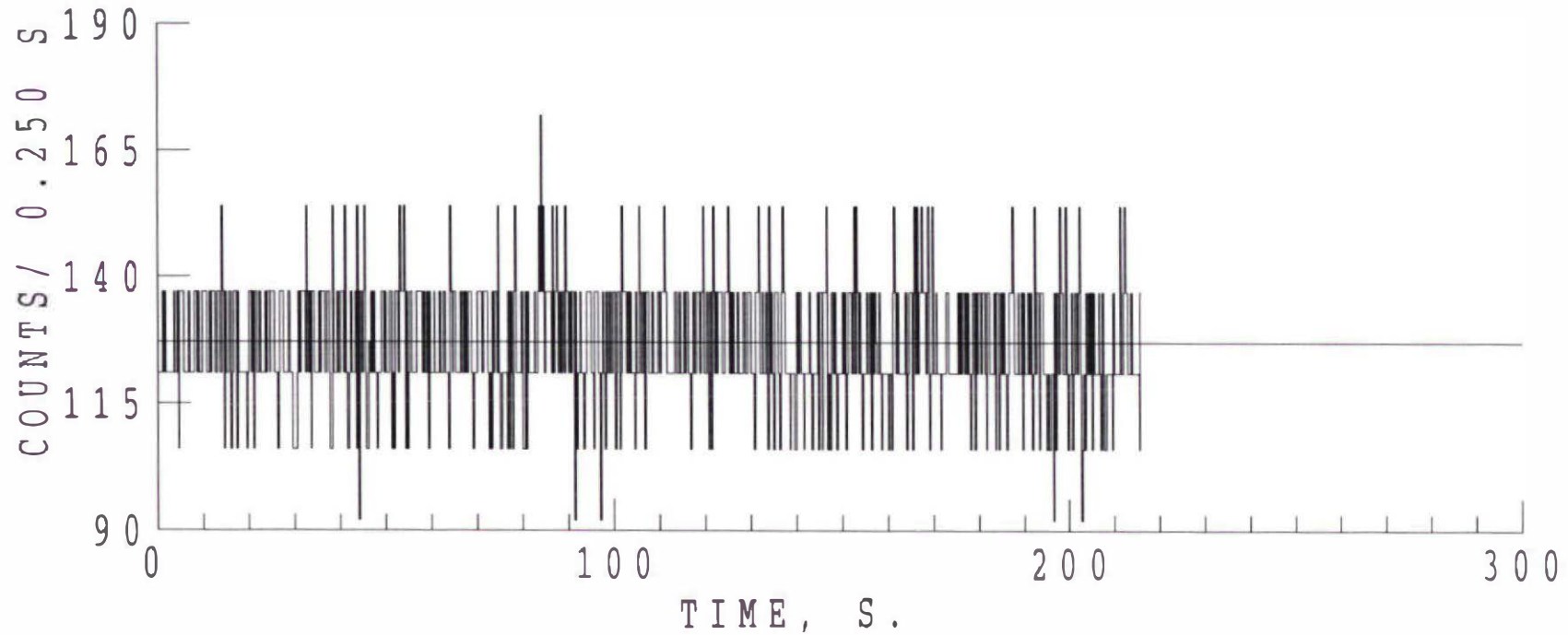
0 - 0 keV

N= 10 M= 10

>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS

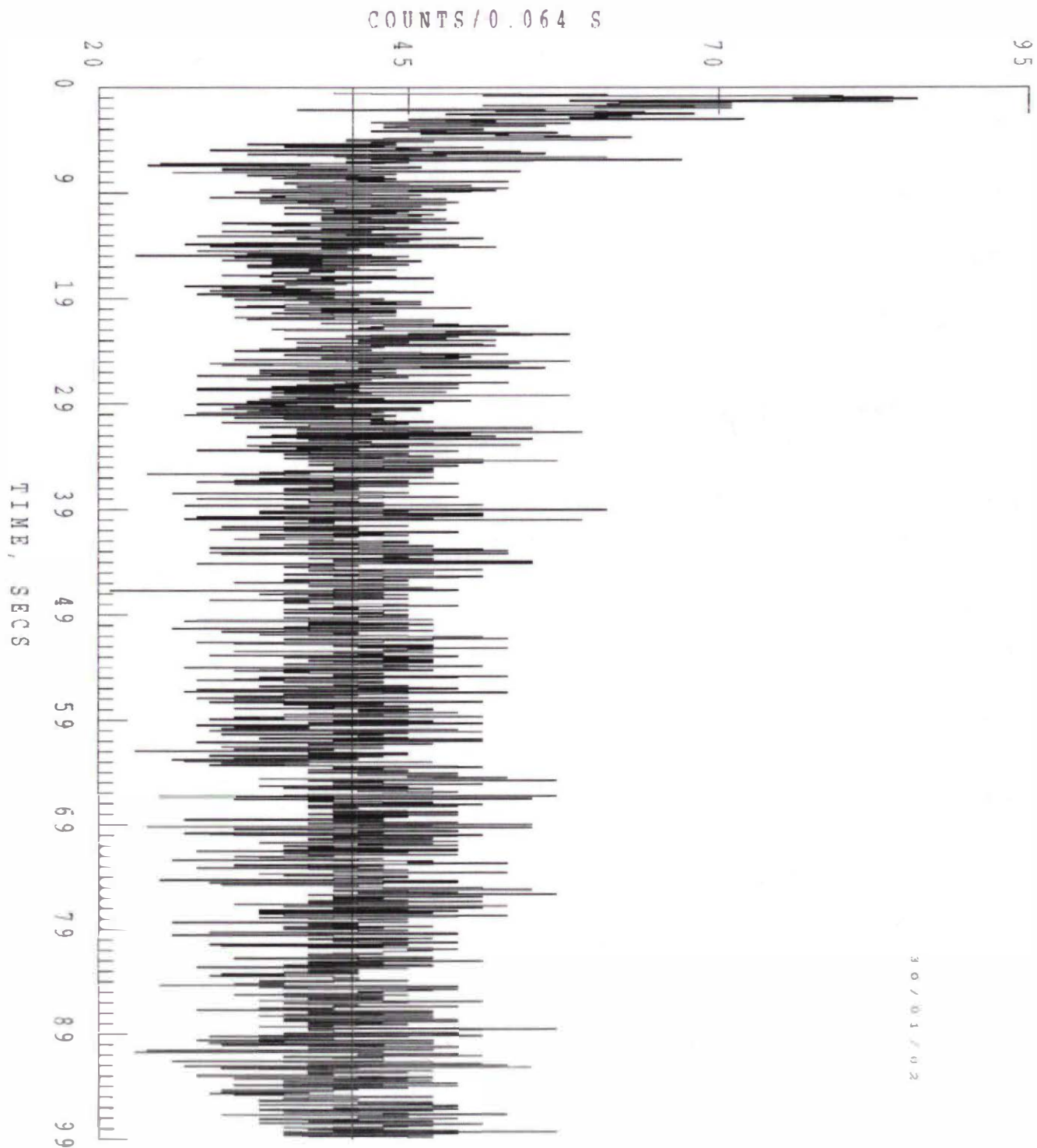


KONUS2

13/07/95

78011.916

50 - 200 keV



KONUS2 19950713 77616

ULYSSES RT

27 / 08 / 11

13/07/95 77508.211 s

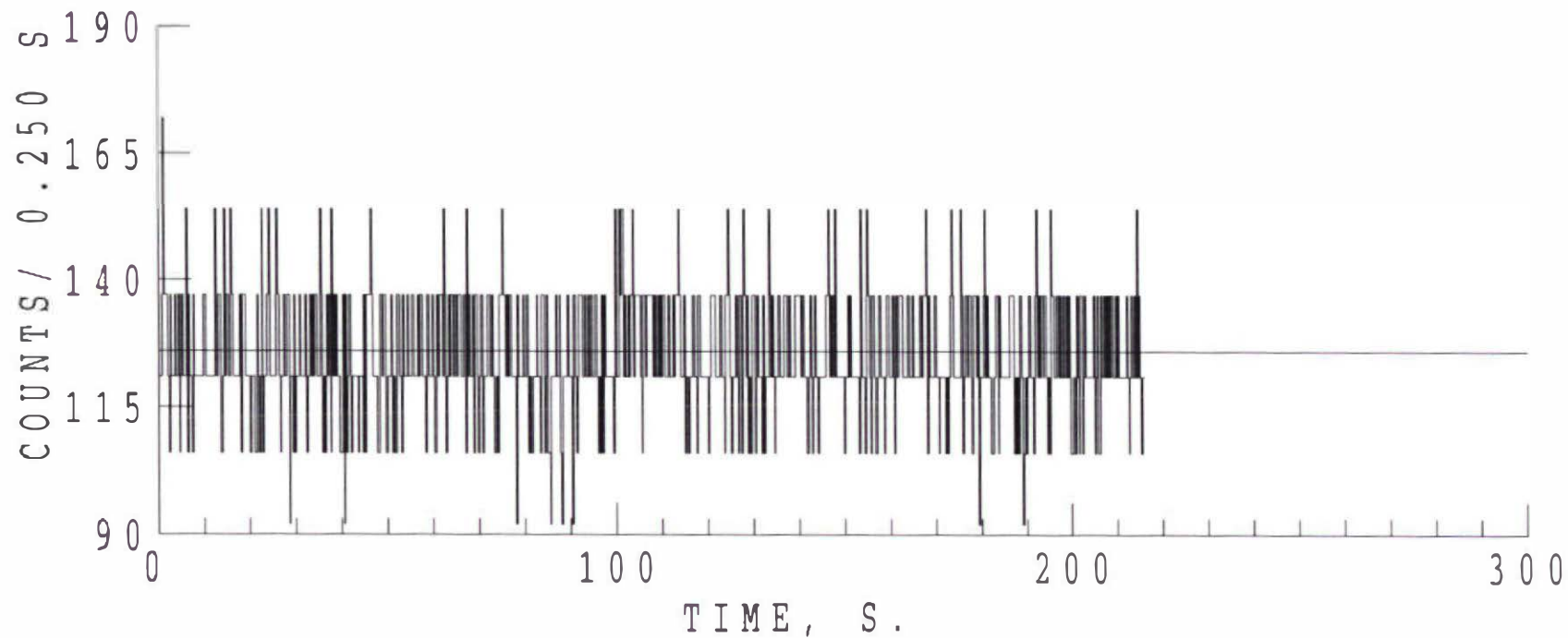
0 - 0 keV

M= 10 N= 10

>4.0 SIGMA FLUCTUATIONS

M= 10 N= 2

>4.0 SIGMA FLUCTUATIONS



KONUS2 19950713 78011

ULYSSES RT

30/01/02

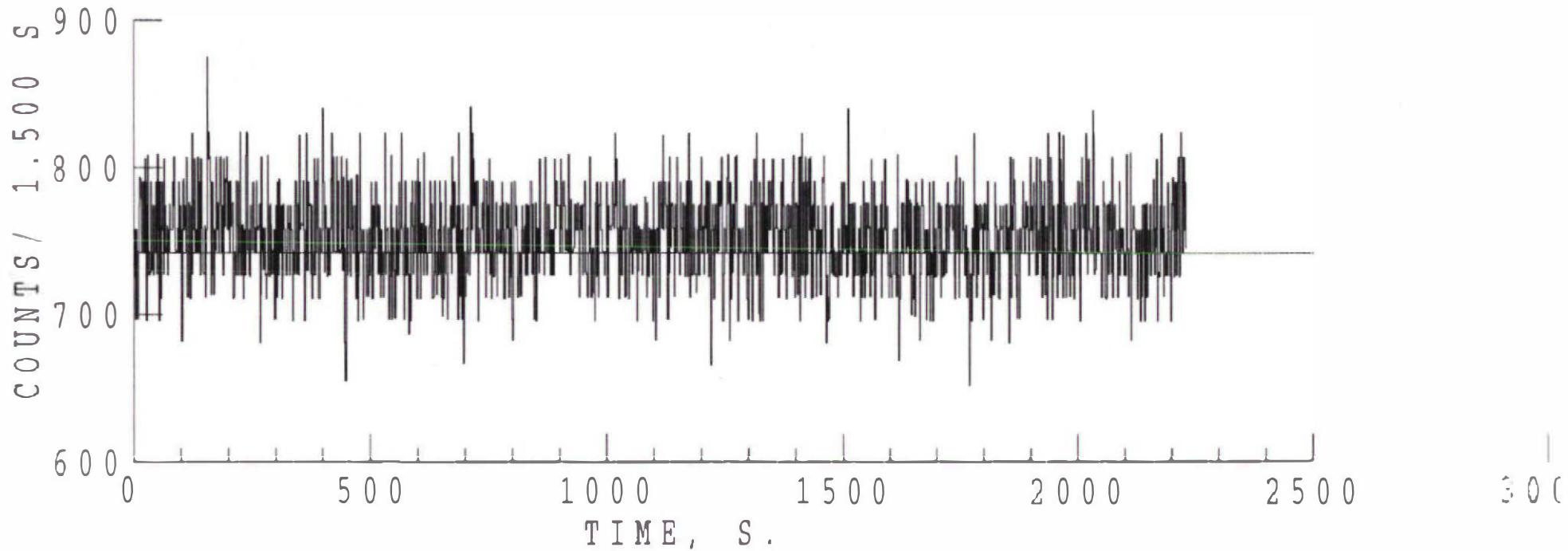
13/07/95 76896.203 s

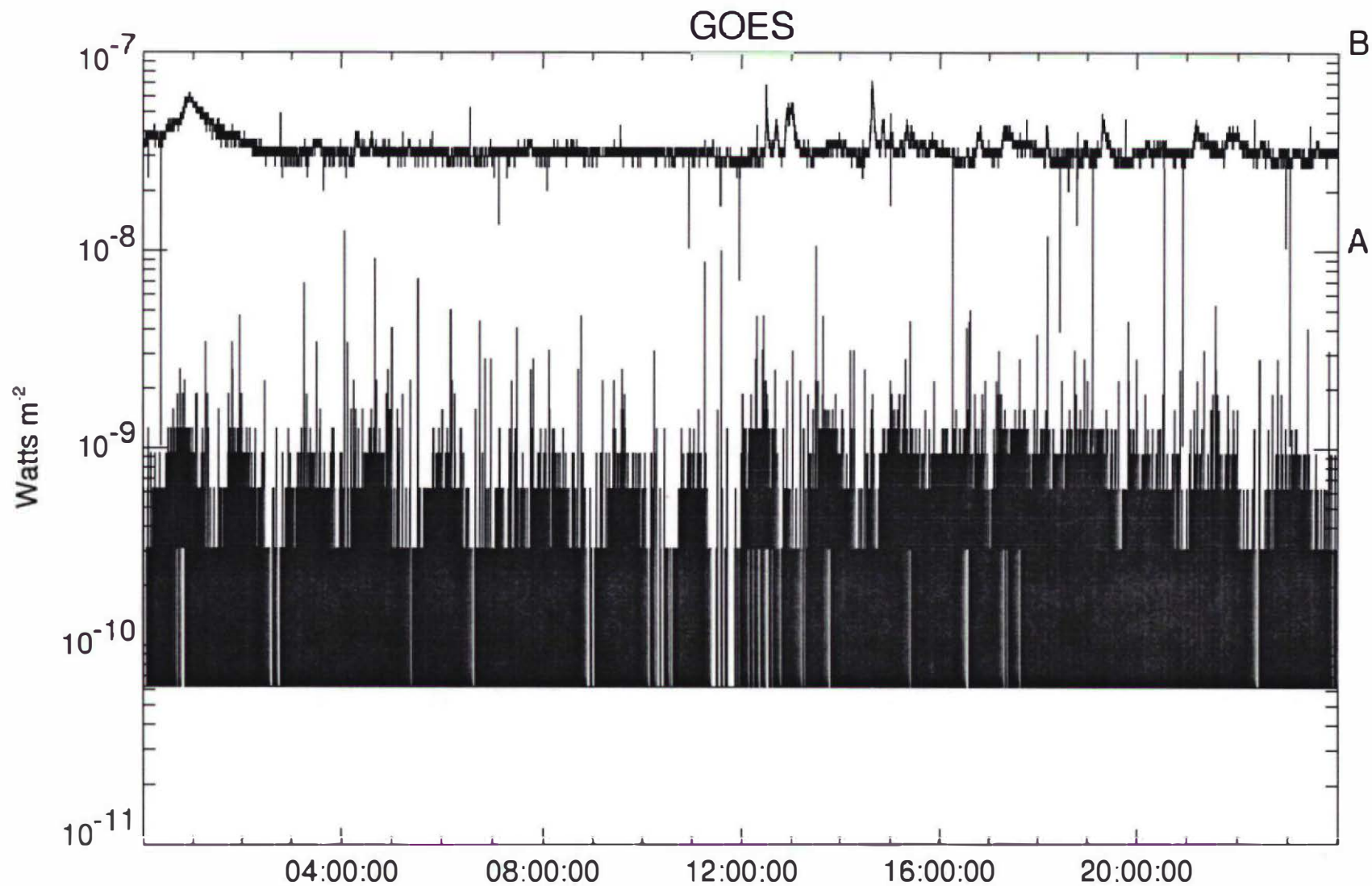
0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





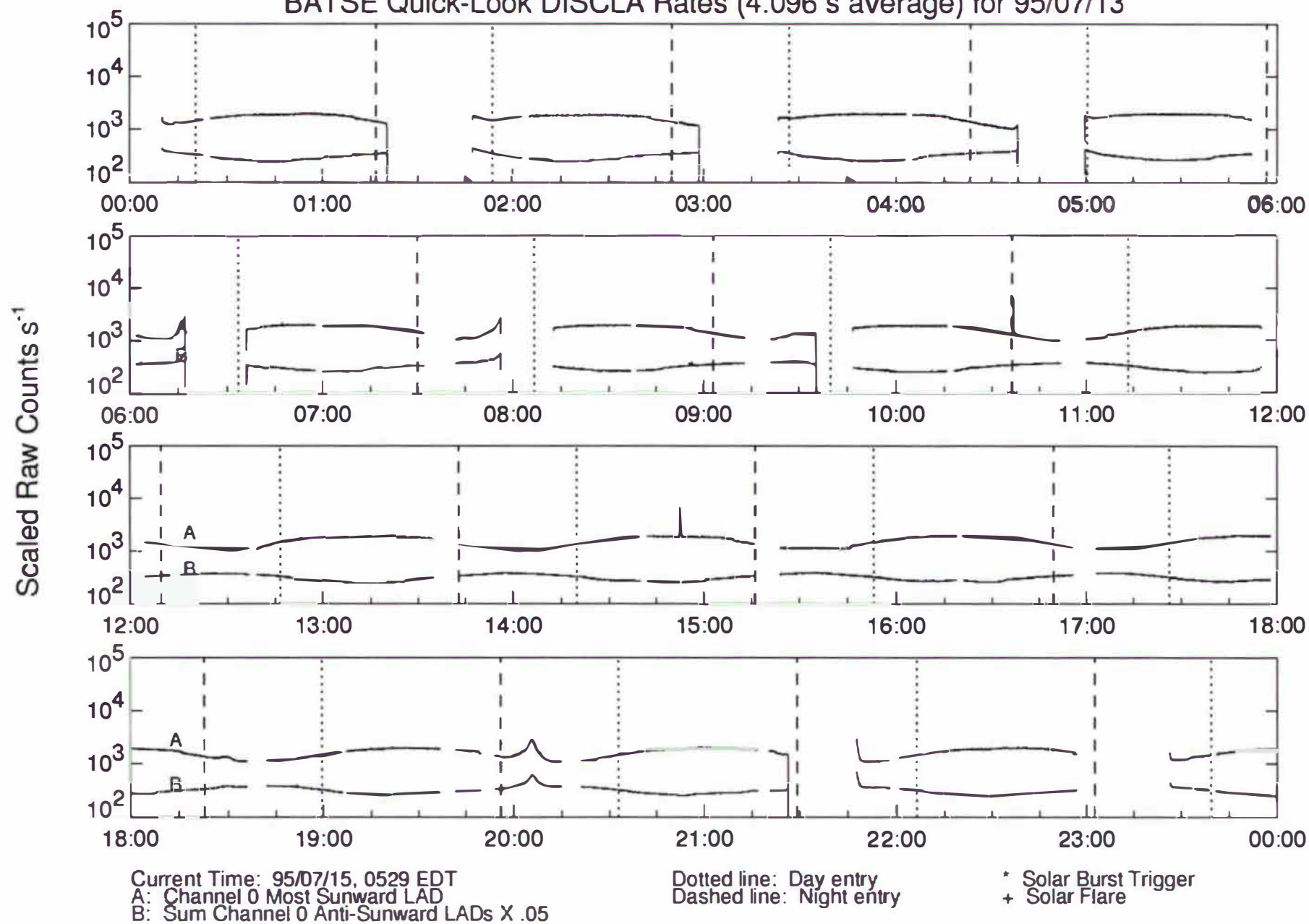
Data Start: 95/07/13, 0000:02

Plot created: 95/07/15, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

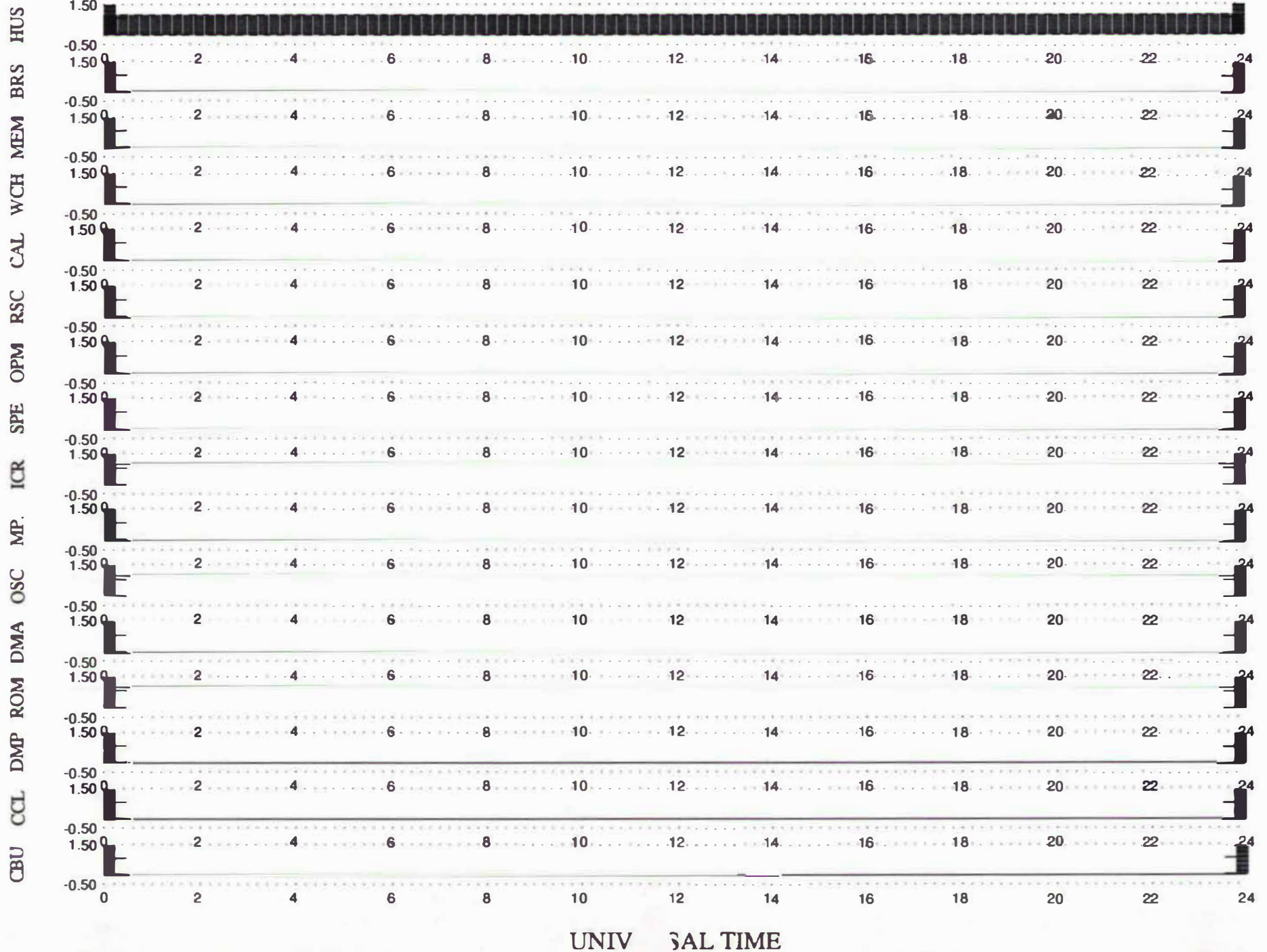
2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/13



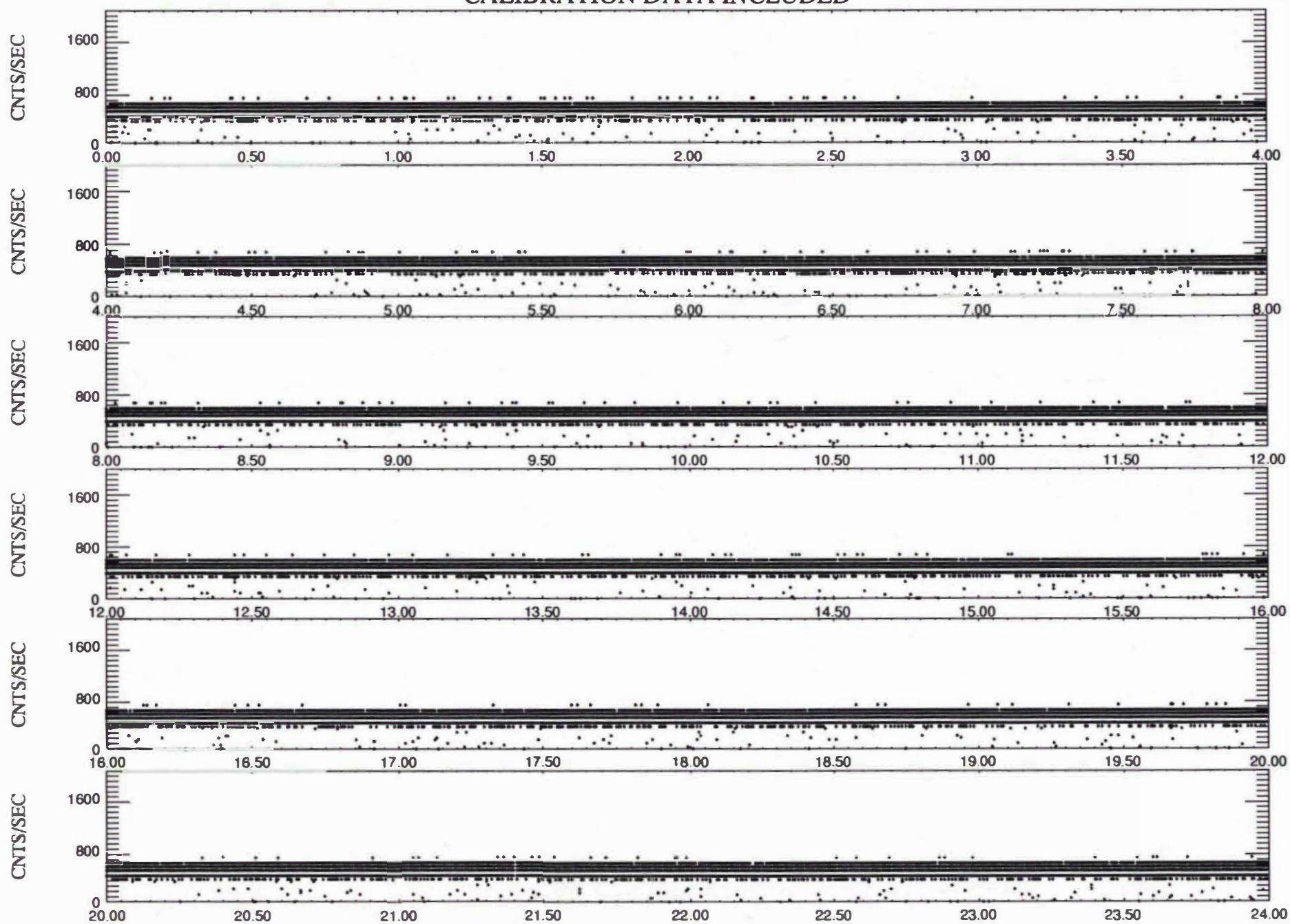
HUS MODES EDR day 194, year 1995 to day 194, year 1995
NO BURST (5)

1/25/96

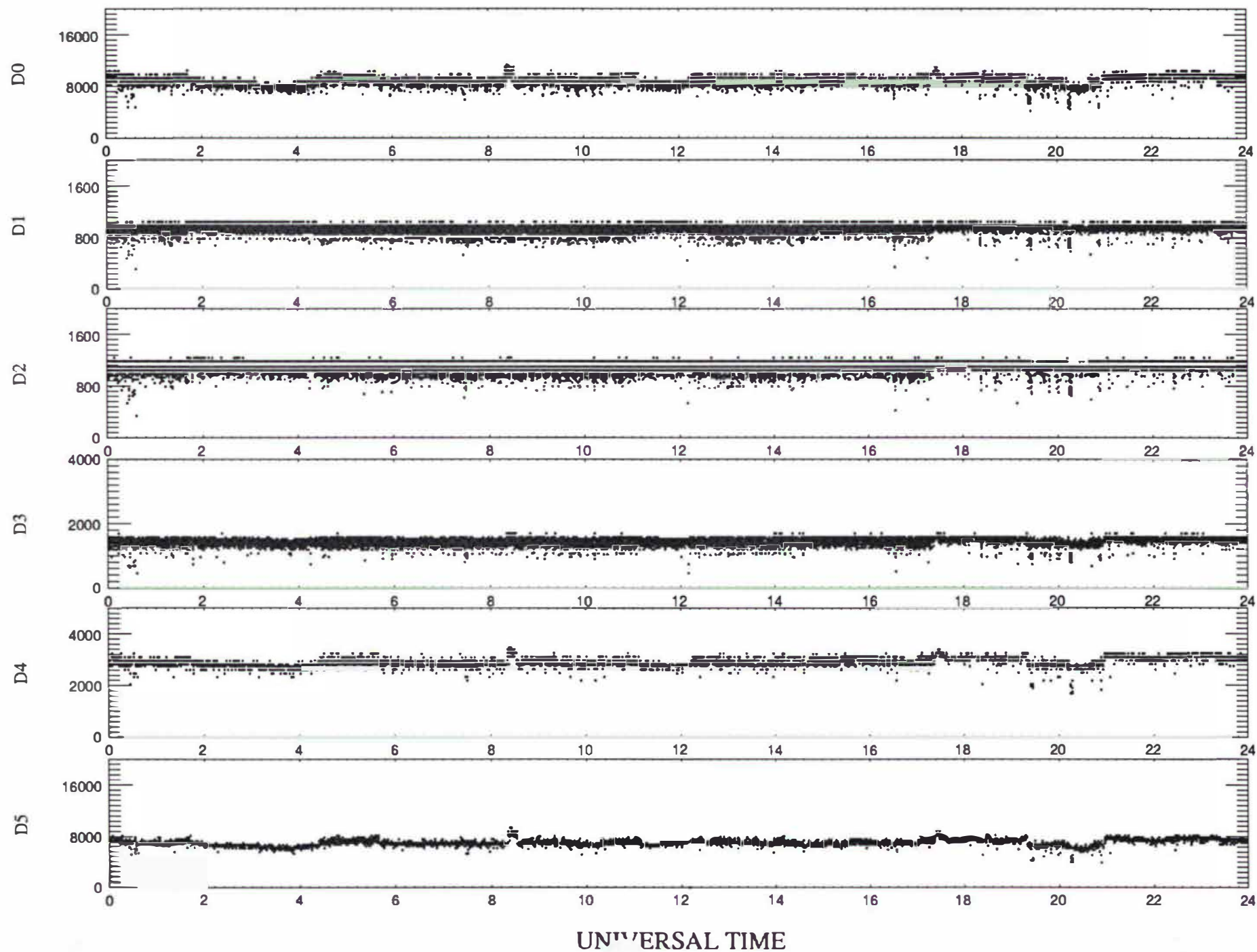


HUS 2A, MODE 1, NOT AVERAGED EDR day 194, year 1995 to day 194, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV SAL TIME



Jul 17 16:09

batse.3665

1

From HENZE@fender.msfc.nasa.gov Mon Jul 17 15:46 PDT 1995
Return-Path: <HENZE@fender.msfc.nasa.gov>
Received: from FENDER.MSFC.NASA.GOV by sunspot.ssl.berkeley.edu (SMI-8.6/SMI-SVR4)
id PAA18384; Mon, 17 Jul 1995 15:46:32 -0700
From: HENZE@fender.msfc.nasa.gov
Date: Mon, 17 Jul 1995 17:46:24 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Message-Id: <950717174624.21a00625@fender.msfc.nasa.gov>
Subject: Crossing Windows for BATSE Burst 3665
Content-Type: text
Content-Length: 1135
X-Lines: 26
Status: RO

No

BATSEARCH PROGRAM

BATSE BURST # 3665
EVENT OF 1995 JUL 14 DAY OF YEAR=195
EVENT CROSSING TIME AT BATSE : 6186. S. OR 01:43:06.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 29.000 64.000
BATSE PEAK COUNTING RATE: 36000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 14/ 7/ 95 IS:
RA= 56.196 DEC= 80.558 DIST= 2.124 AU
BATSE-ULYSSES DISTANCE = 317796065. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=161.91 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1007.66 SECS.
CROSSING TIME AT ULYSSES IS 5178. S. OR 01:26:18 +/- 91.84 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 14/ 7/ 95 IS:
RA= 176.265 DEC= 2.211 DIST= 1.742 AU
MARS-BATSE DISTANCE = 260624032. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 70.50 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 290.19 SECS.
CROSSING TIME AT MARS IS 6476. S. OR 01:47:56 +/- 146.68 SECONDS

BATSE BURST TRIGGER

NO.: 03665

TIME: TJD=9912 SECONDS=06186

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=158.8 AZIMUTH=270.1 ERROR= DEGREES

COMMENTS:

SINGLE PULSE. DUR. 0.12 S. SEEN ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3665	950714	9912	06186	36000	029	+64	.12

17 / 7 / 95

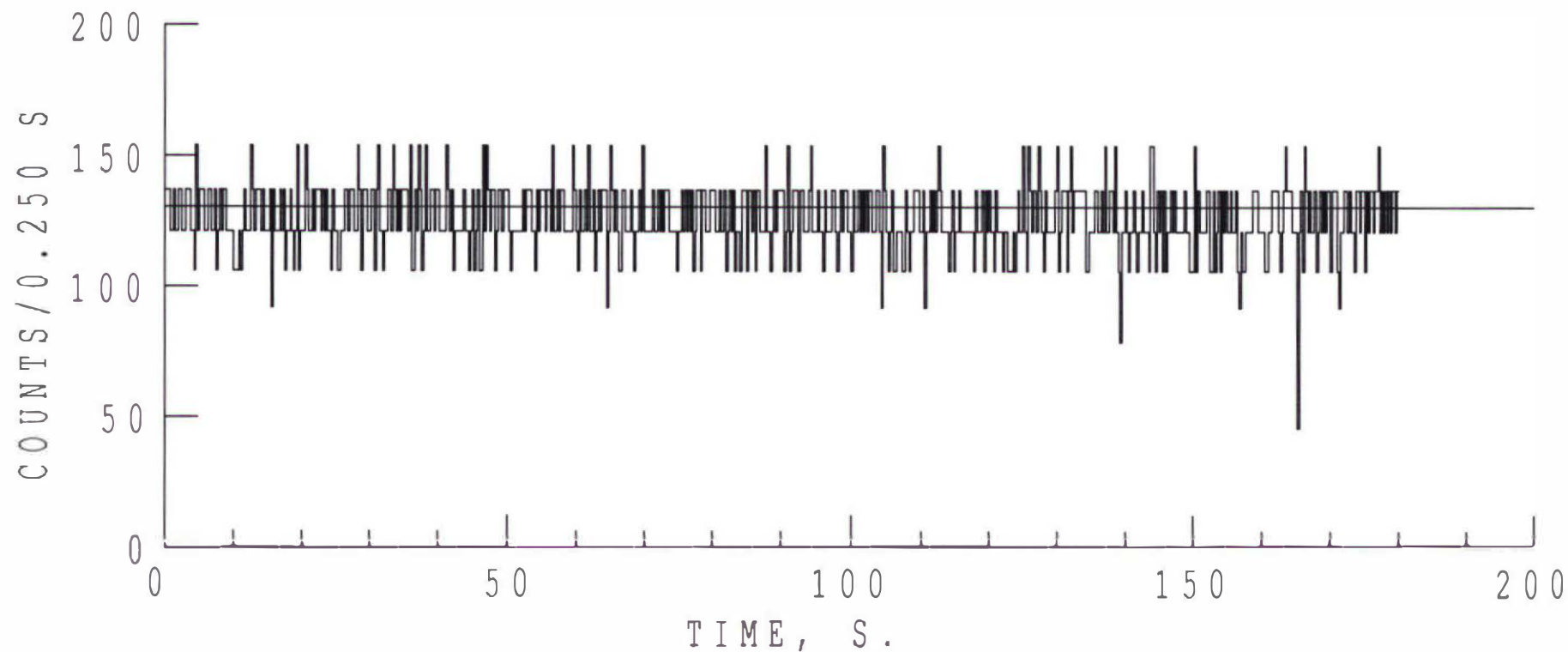
ULYSSES RT

14 / 7 / 95 5076.221 s

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From HENZE@fender.msfc.nasa.gov Mon Jul 17 15:42 PDT 1995
From: HENZE@fender.msfc.nasa.gov
Date: Mon, 17 Jul 1995 17:41:45 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03666

TIME: TJD=9912 SECONDS=57832

TYPE: CYGNUS SOLAR FLARE TRIGGER SIGNAL:N

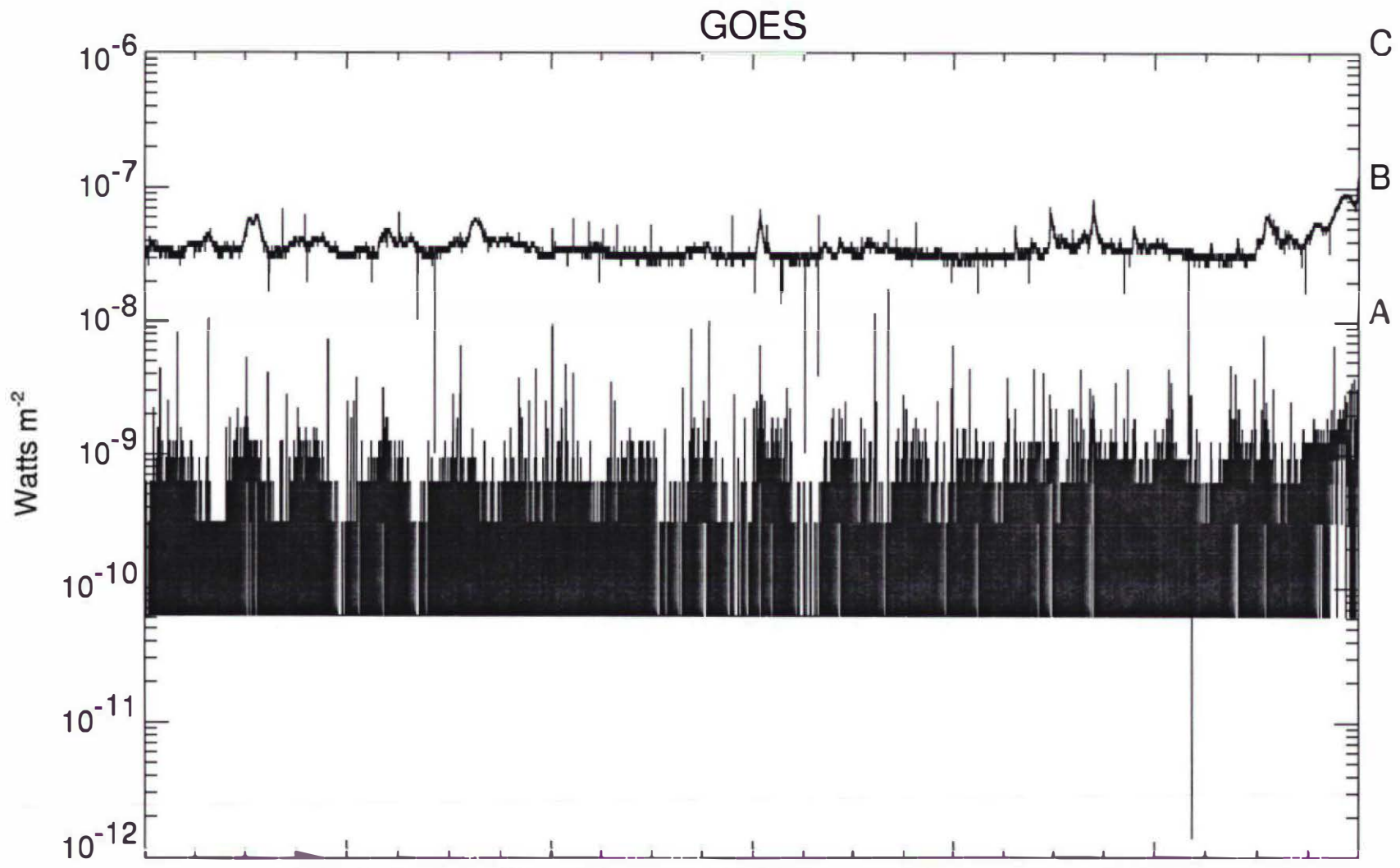
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

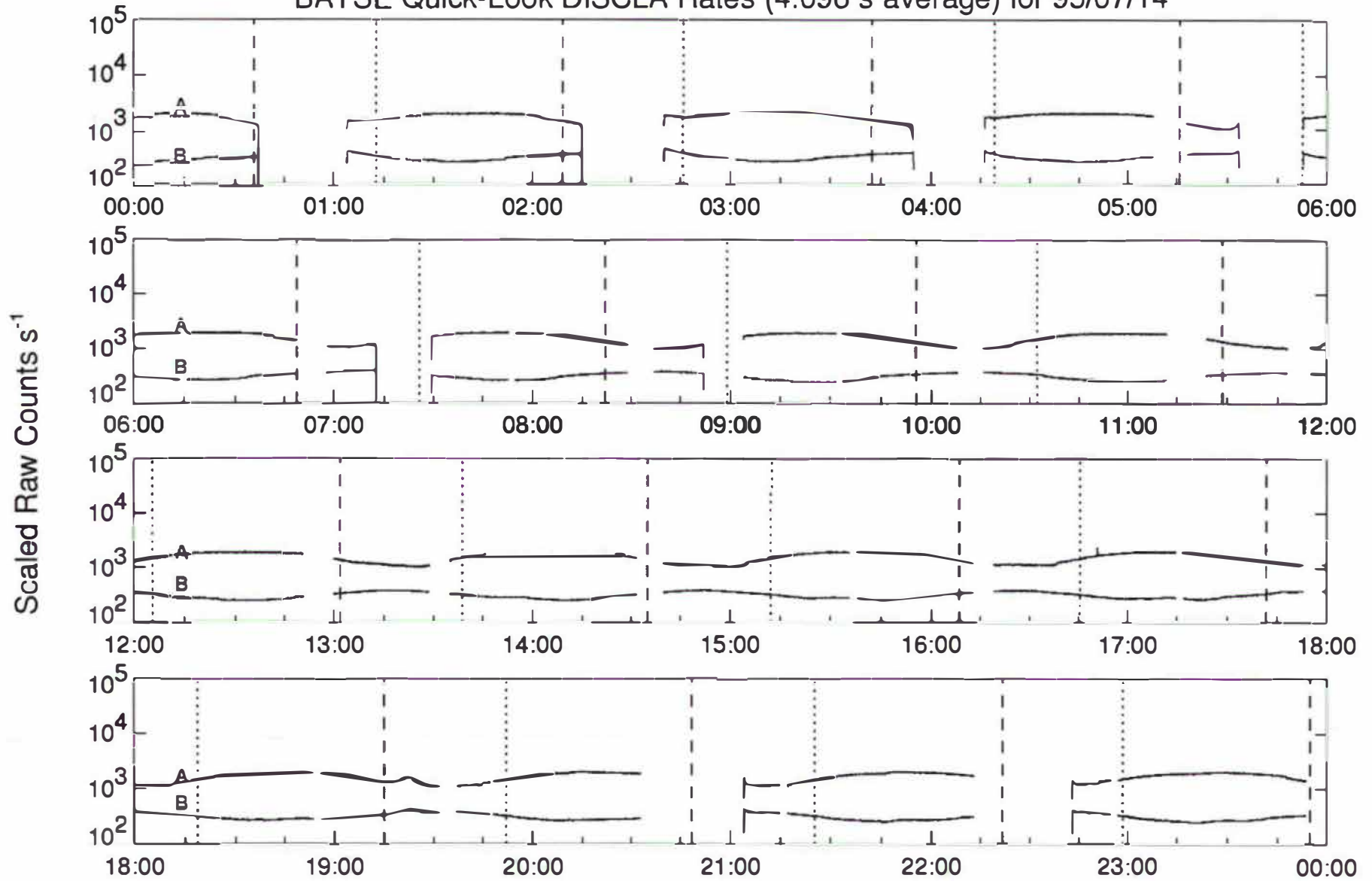
COMMENTS:

CYGNUS X-1 FLUCTUATION.



Data Start: 95/07/14, 0000:03 Plot created: 95/07/16, 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 95/07/14



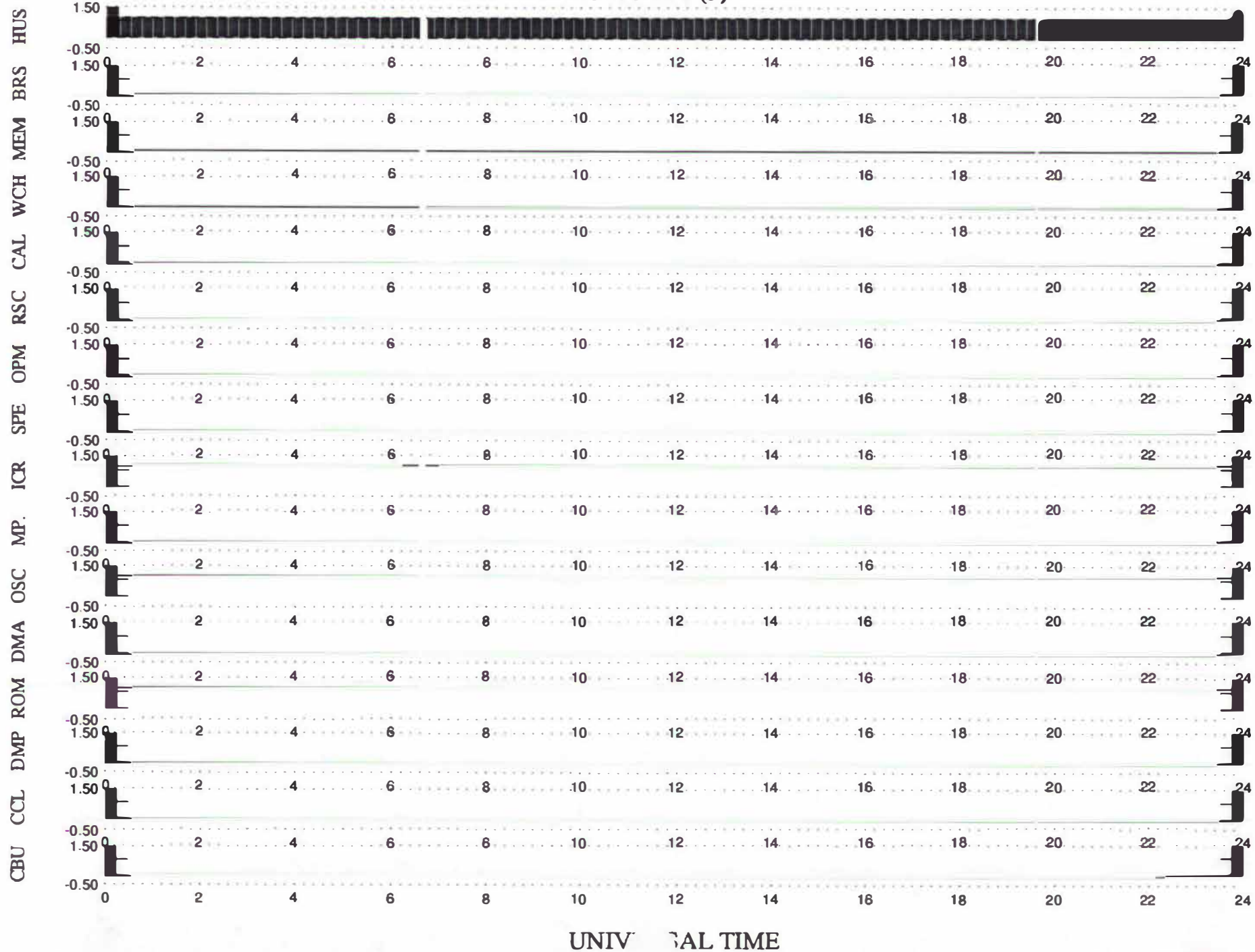
Current Time: 95/07/16, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

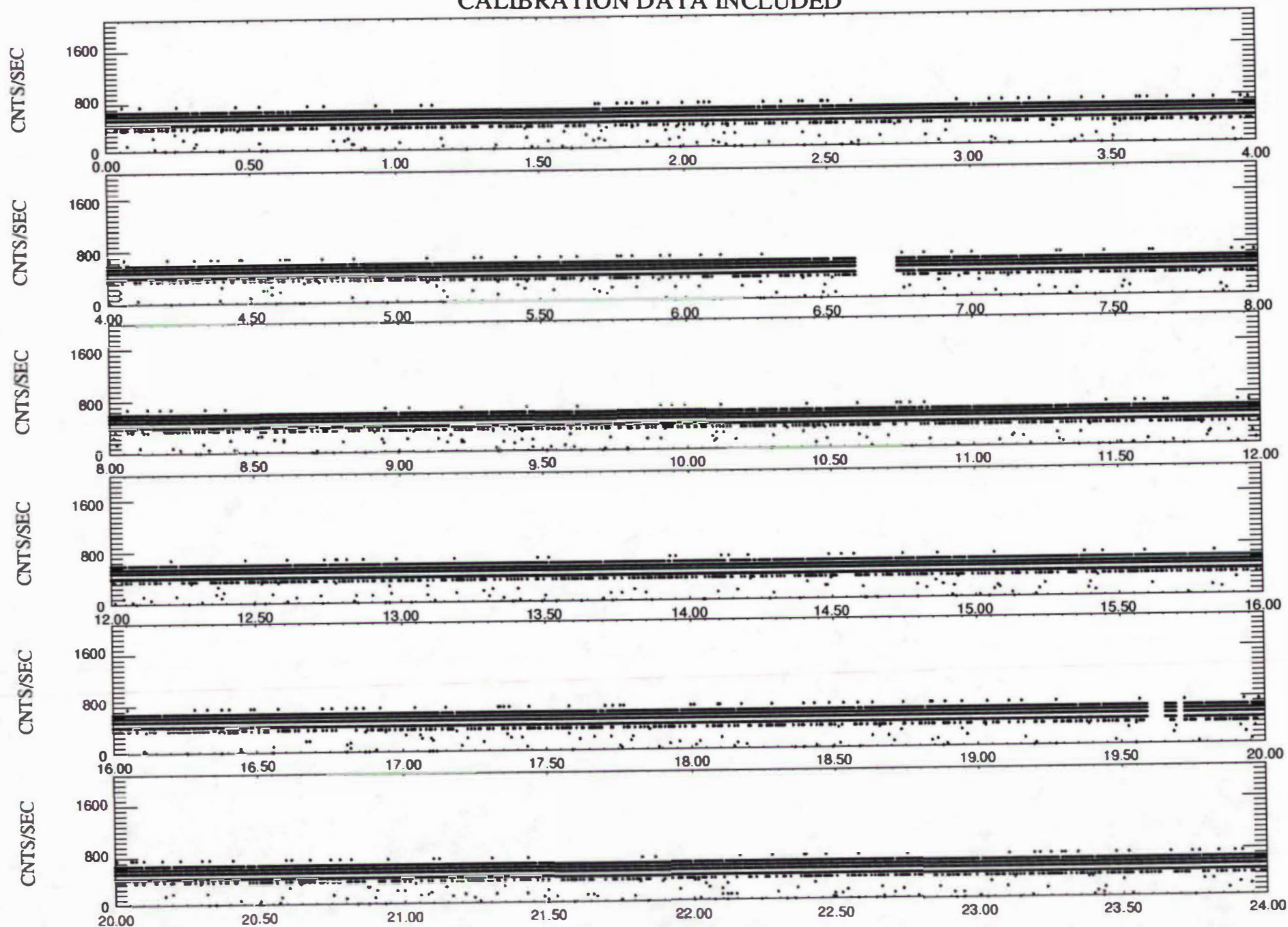
HUS MODES EDR day 195, year 1995 to day 195, year 1995 NO BURST (5)

1/25/96

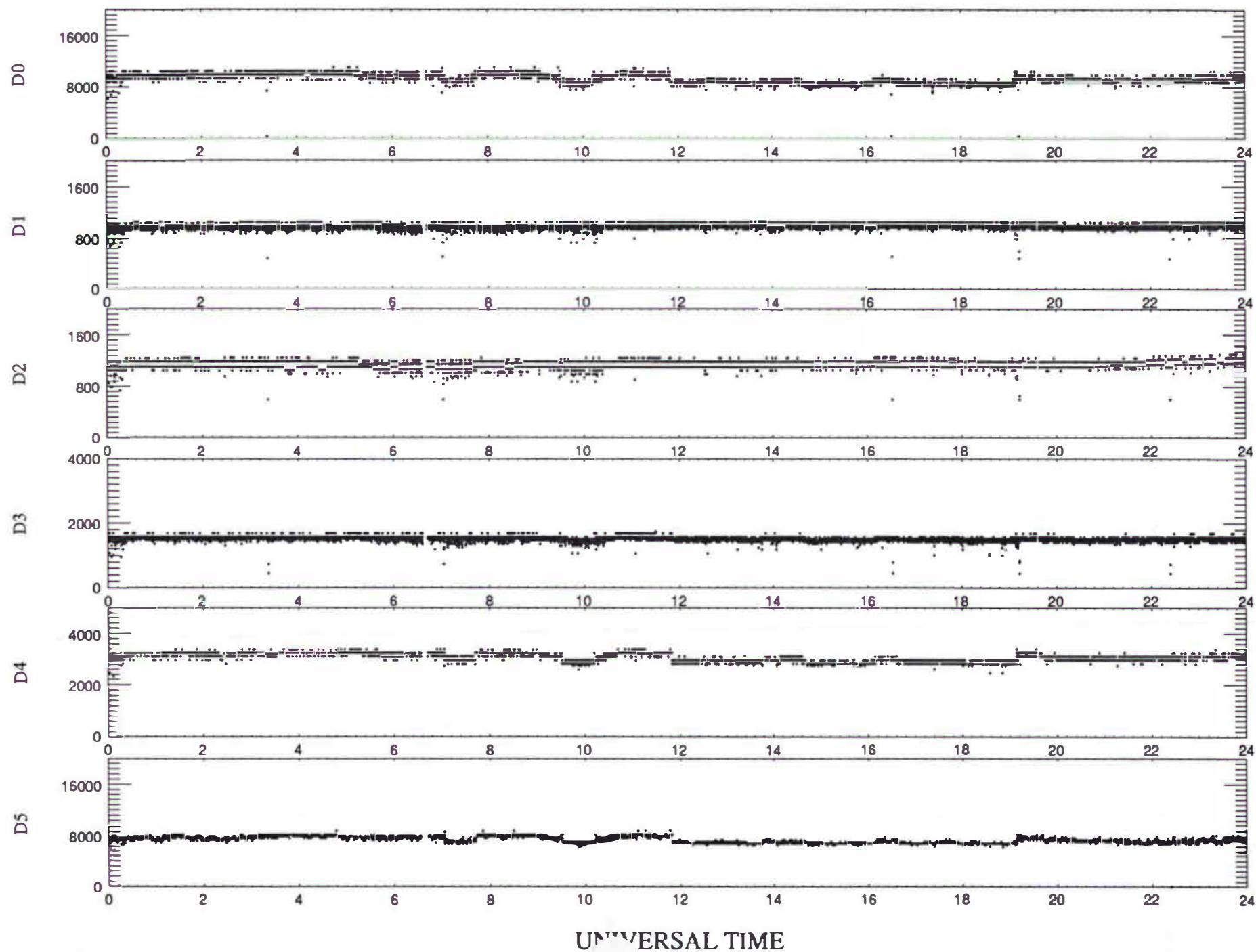


HUS 2A, MODE 1, NOT AVERAGED EDR day 195, year 1995 to day 195, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV SAL TIME



Date: Aug 30 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

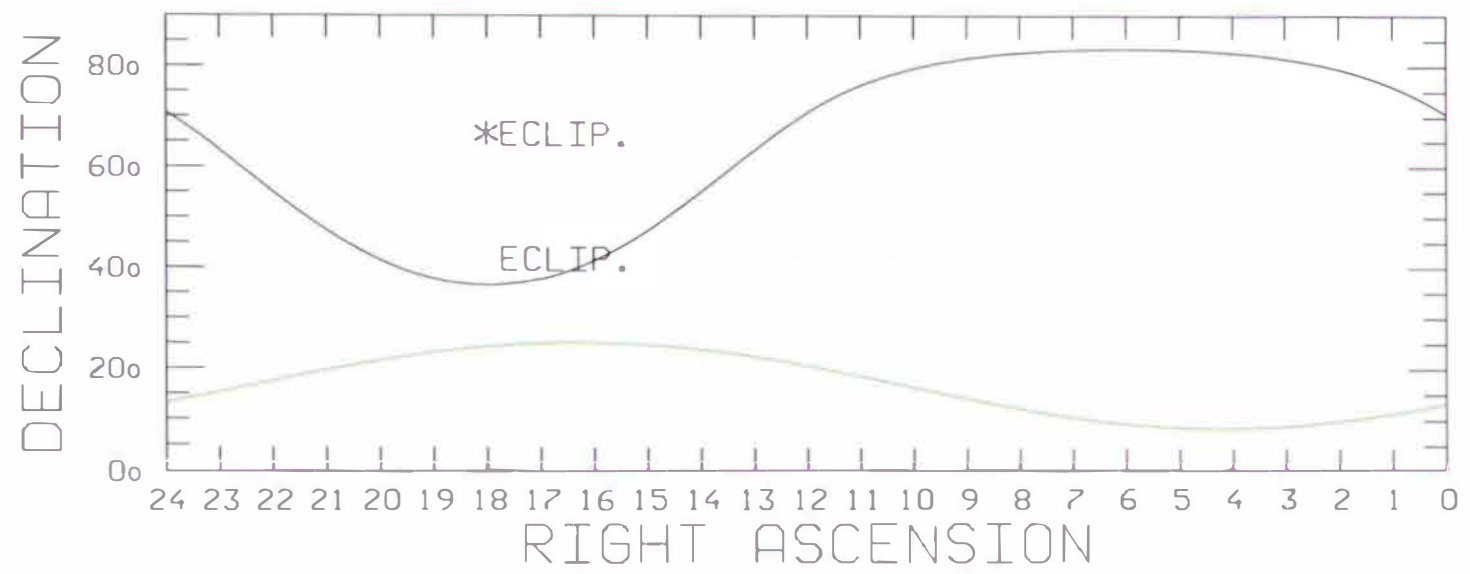
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

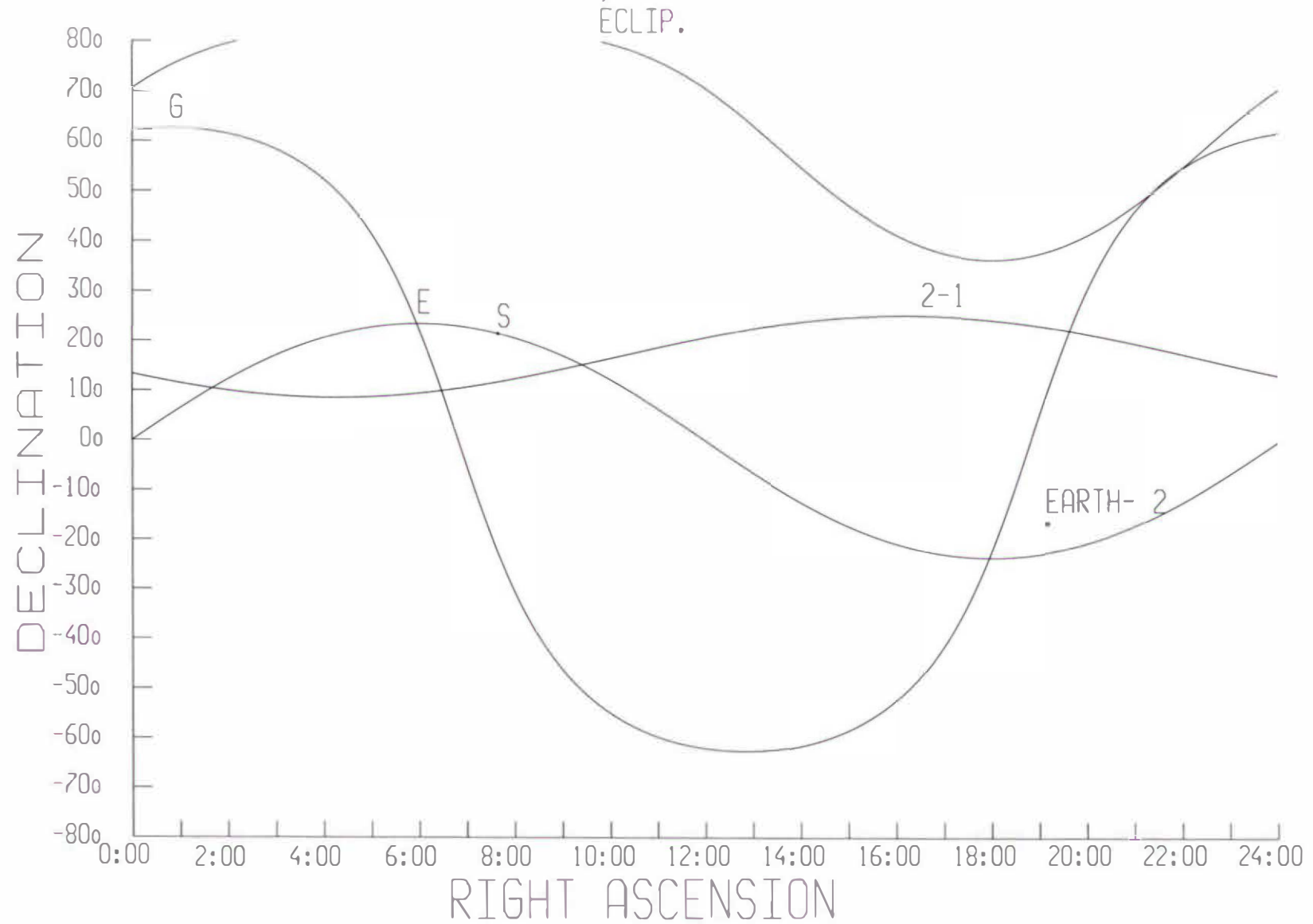
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?



EVENT OF JUL 15, 1995 20:53

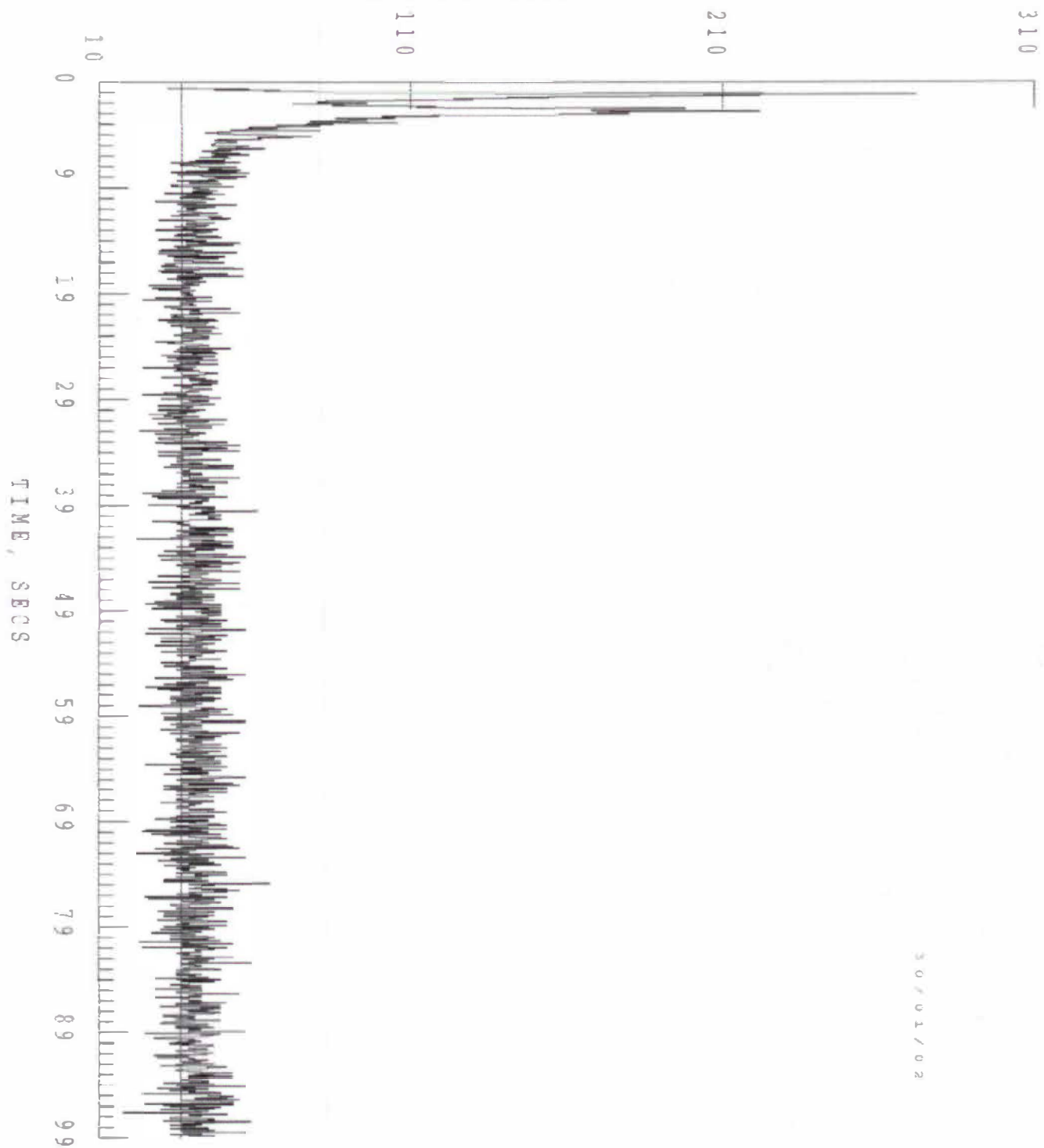
30/08/2011

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



20 - 200 KEV

COUNTS/0.064 S



30/01/02

KONUS 19950715 75257

ULYSSES RT

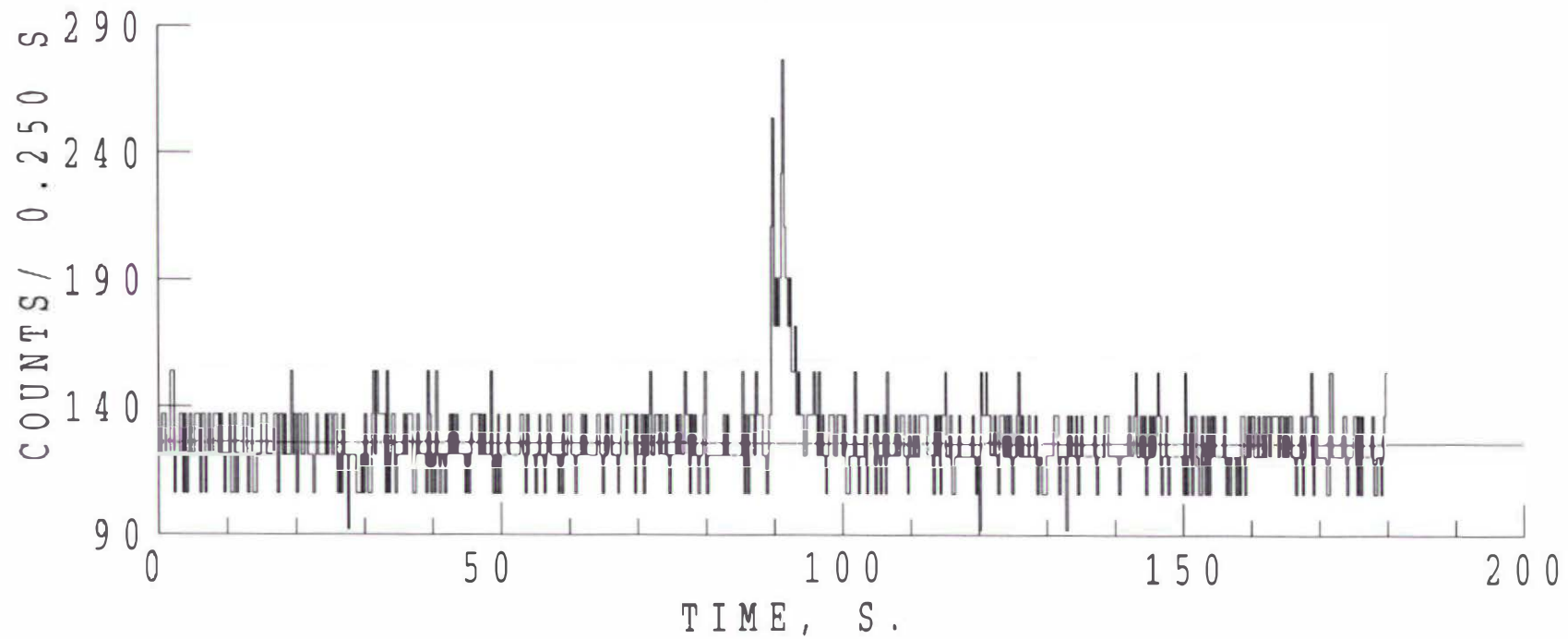
27/08/11

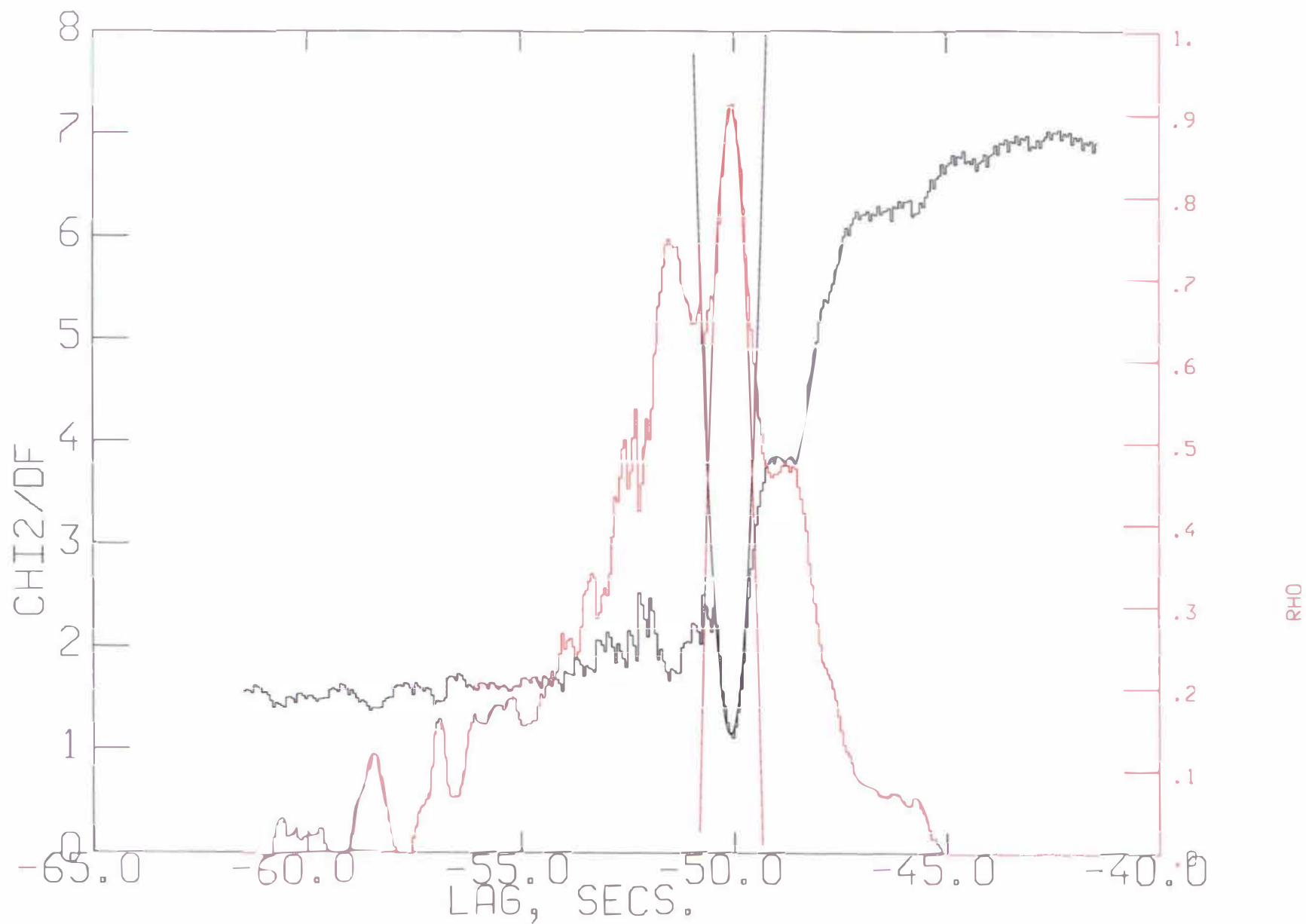
15/07/95 75168.109 s

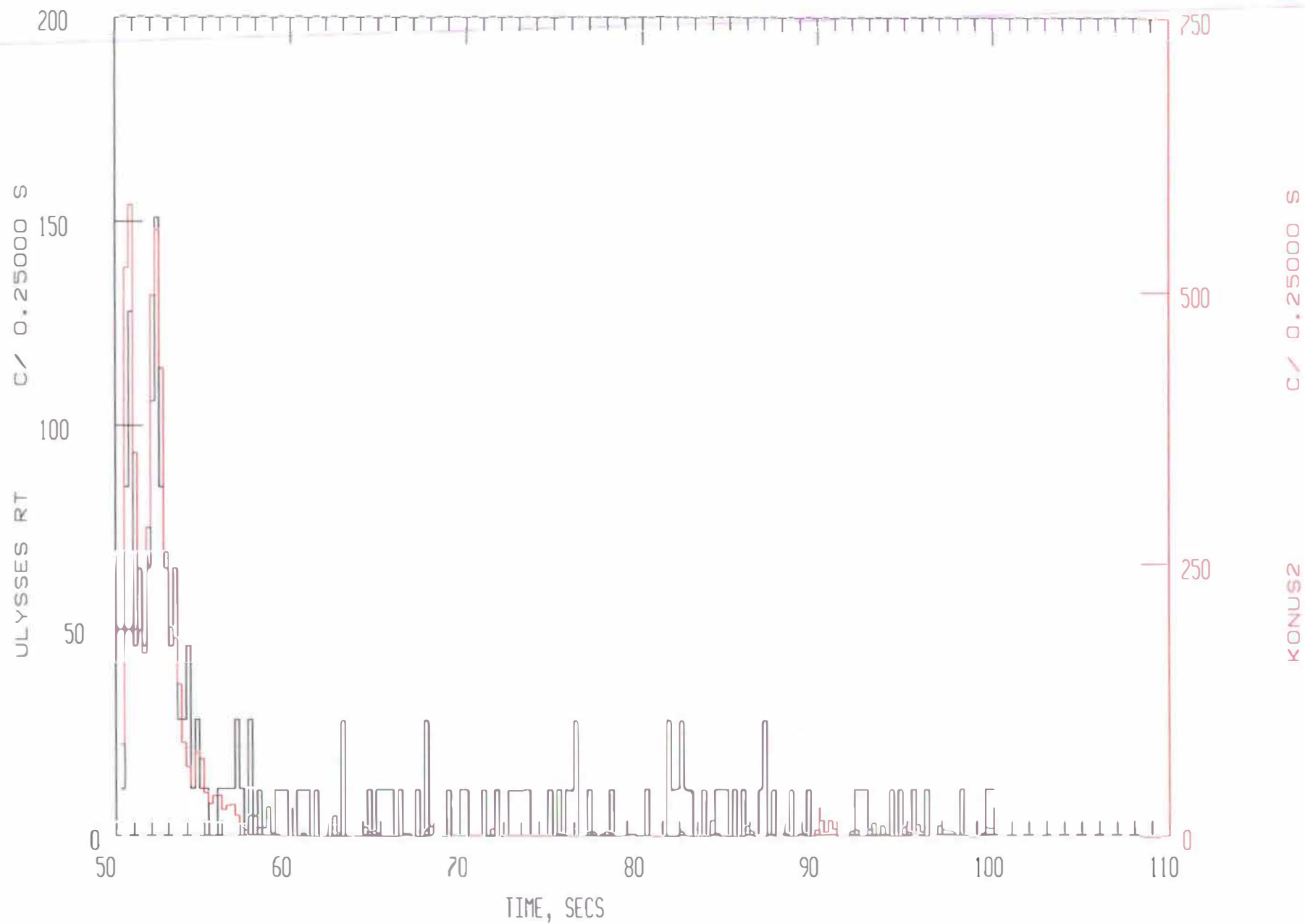
0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



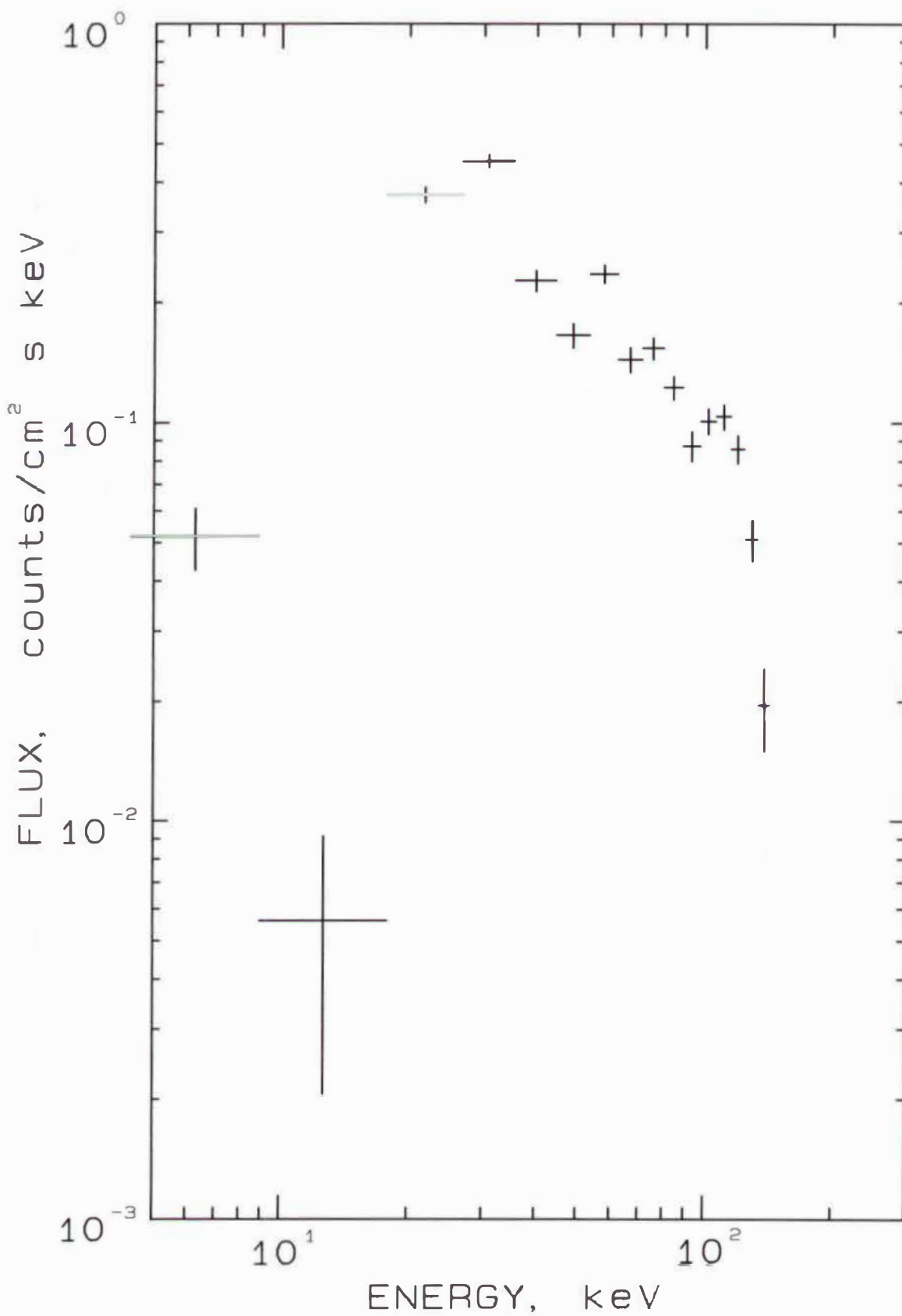




ULYSSES 15/07/95 75257.841

14/11/97

SPECTRUM INTEGRATED OVER 21.1 SECONDS, INTERVALS 2 TO 20



ULYSSES 15/07/95 75257.841 BURST SPECTRAL COUNT RATES

4- 17 keV

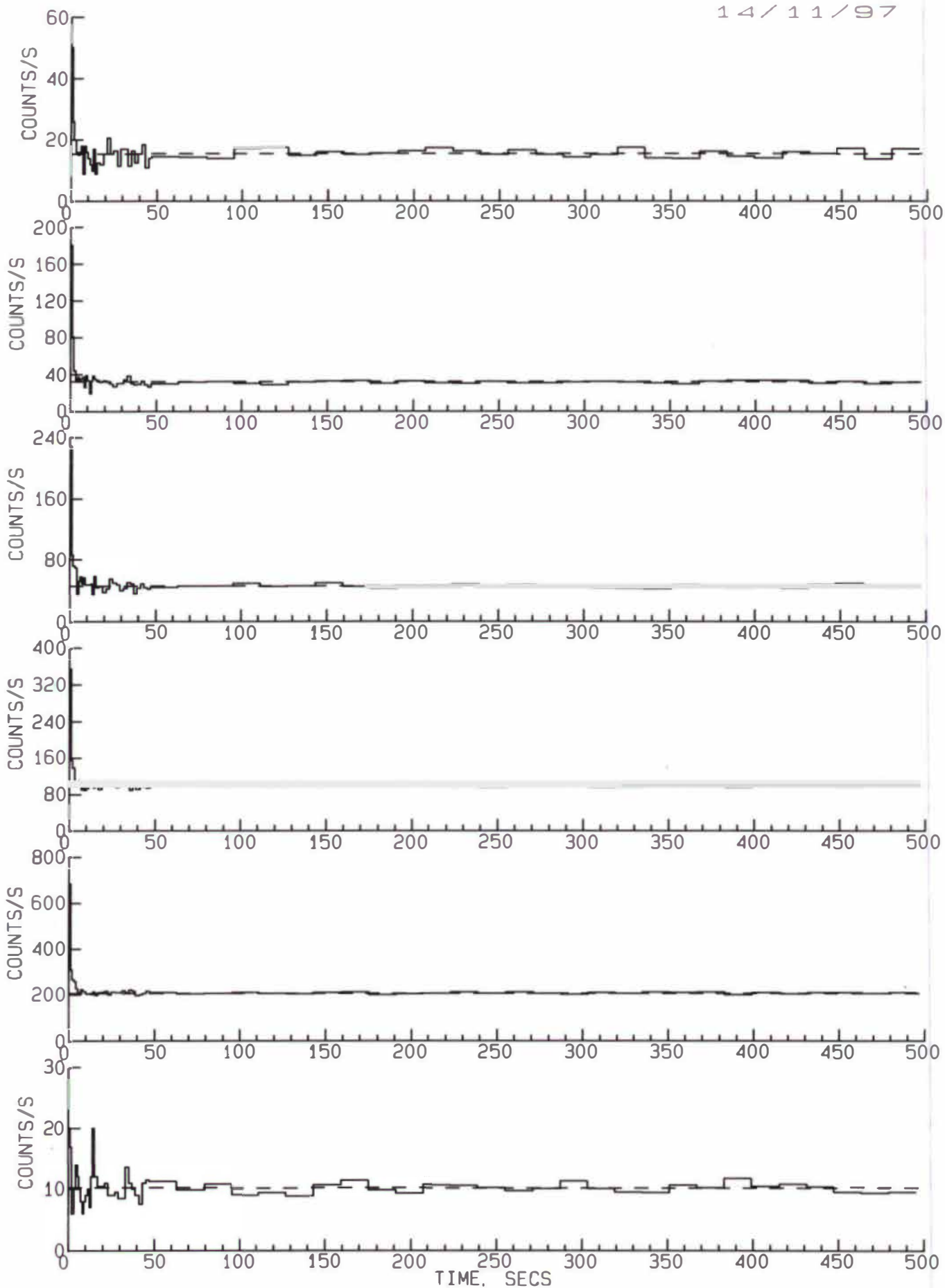
17- 44 keV

44- 71 keV

71- 97 keV

97-124 keV

124-142 keV



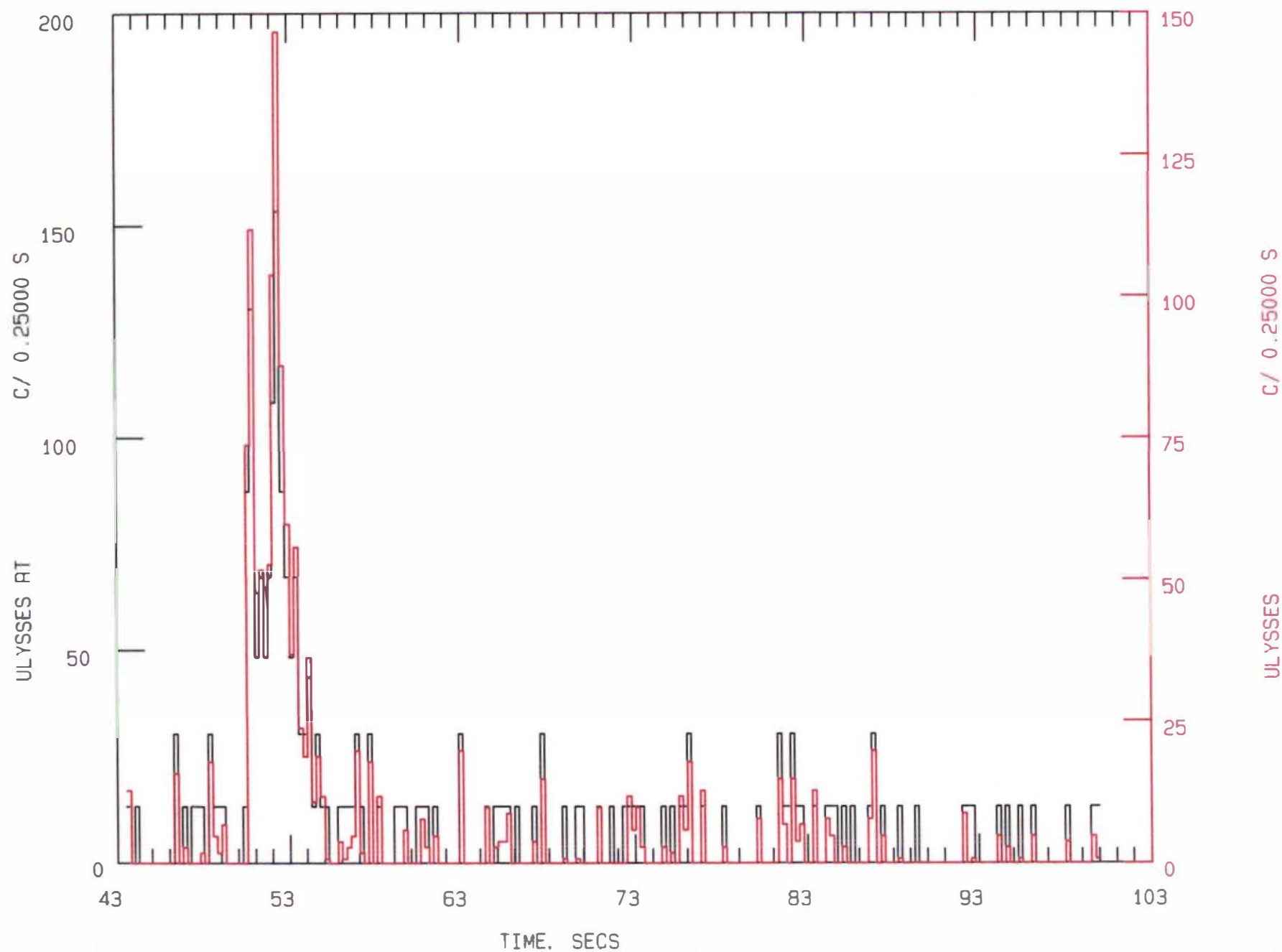
ULYSSES RT-ULYSSES

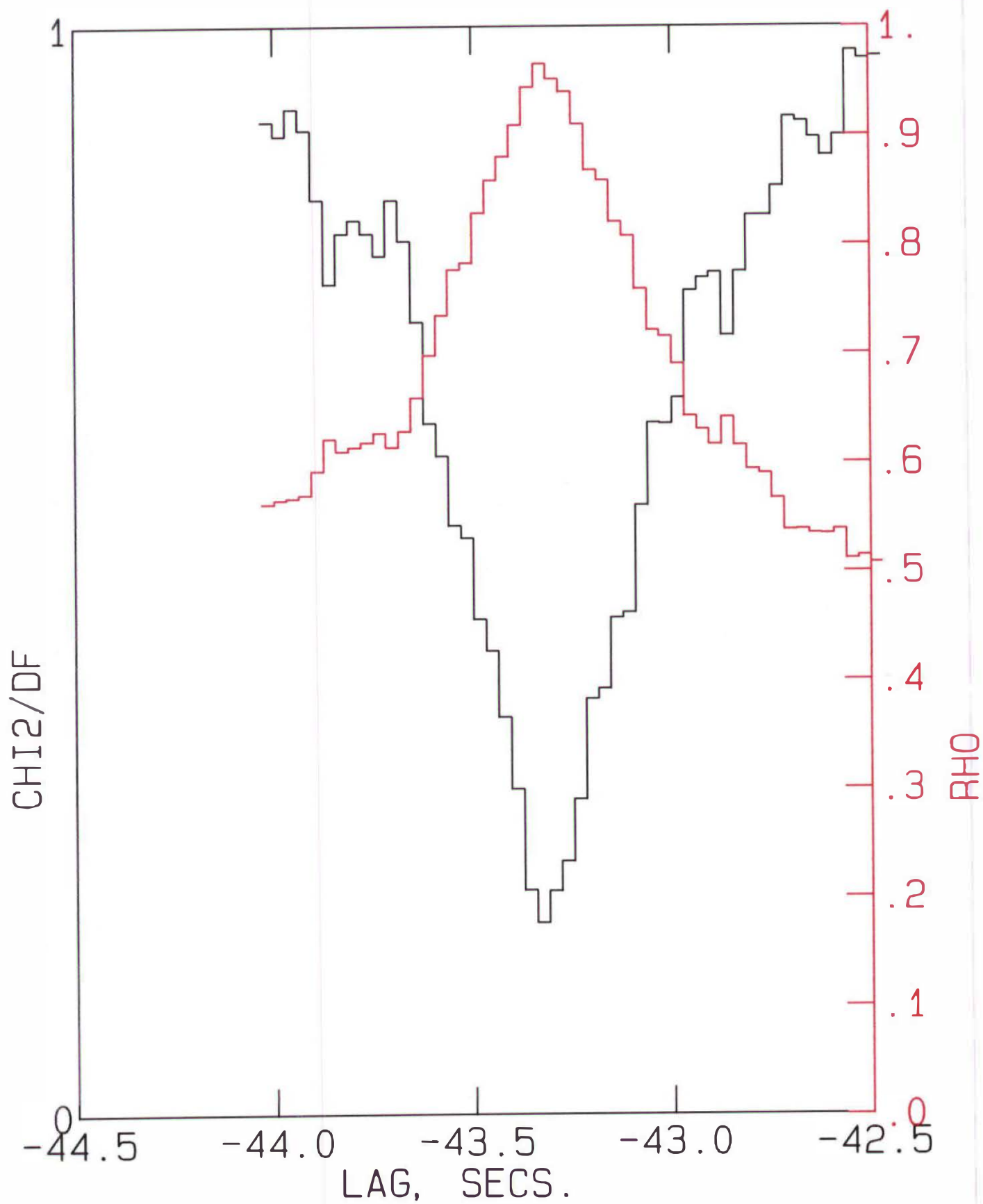
CORRELATION

15/ 7/95

75207.167

14/11/97





ULYSSES

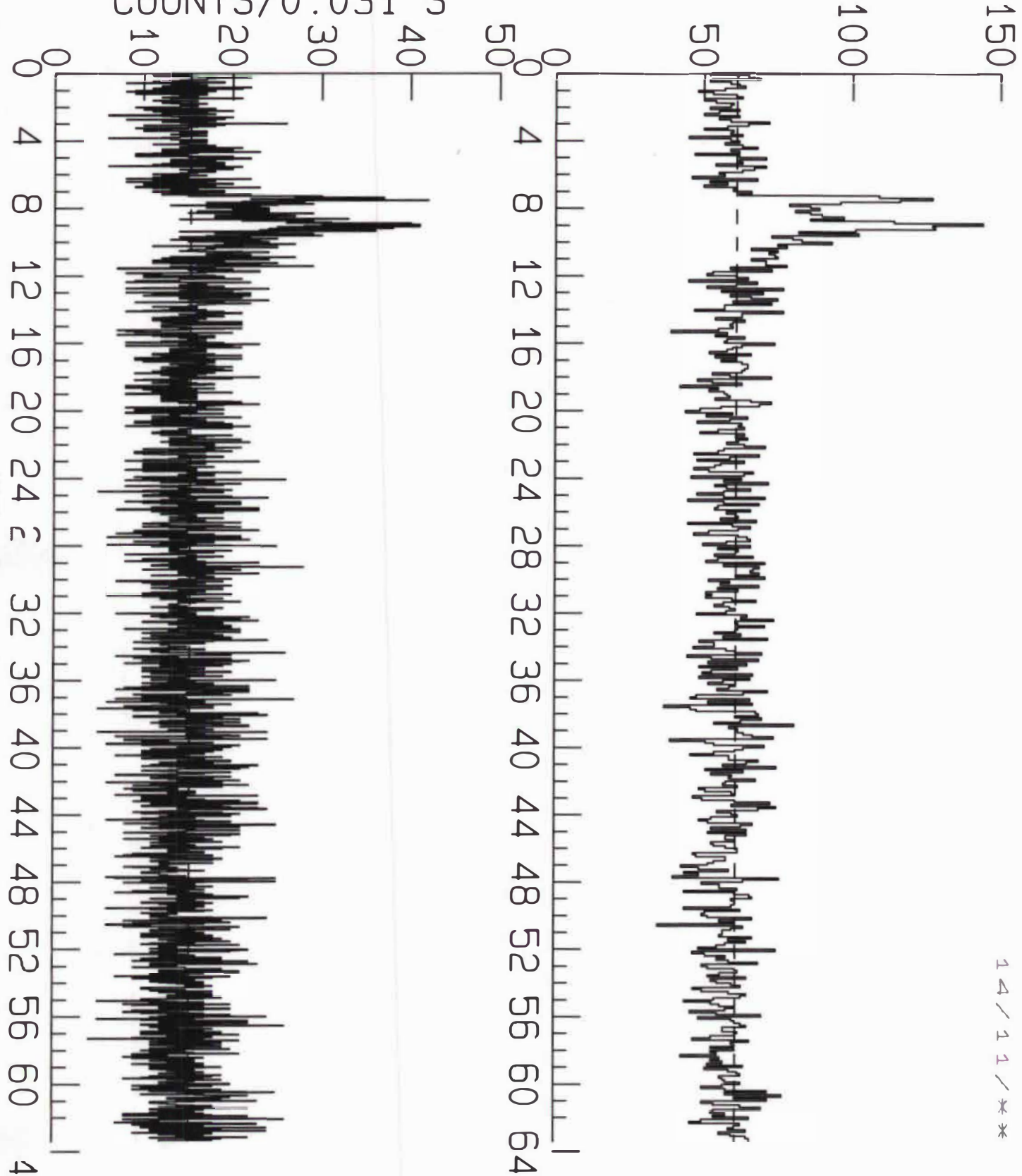
15/07/95

Ttrig=75257.902

21- 142 keV

COUNTS/0.031 S

COUNTS/0.125 S



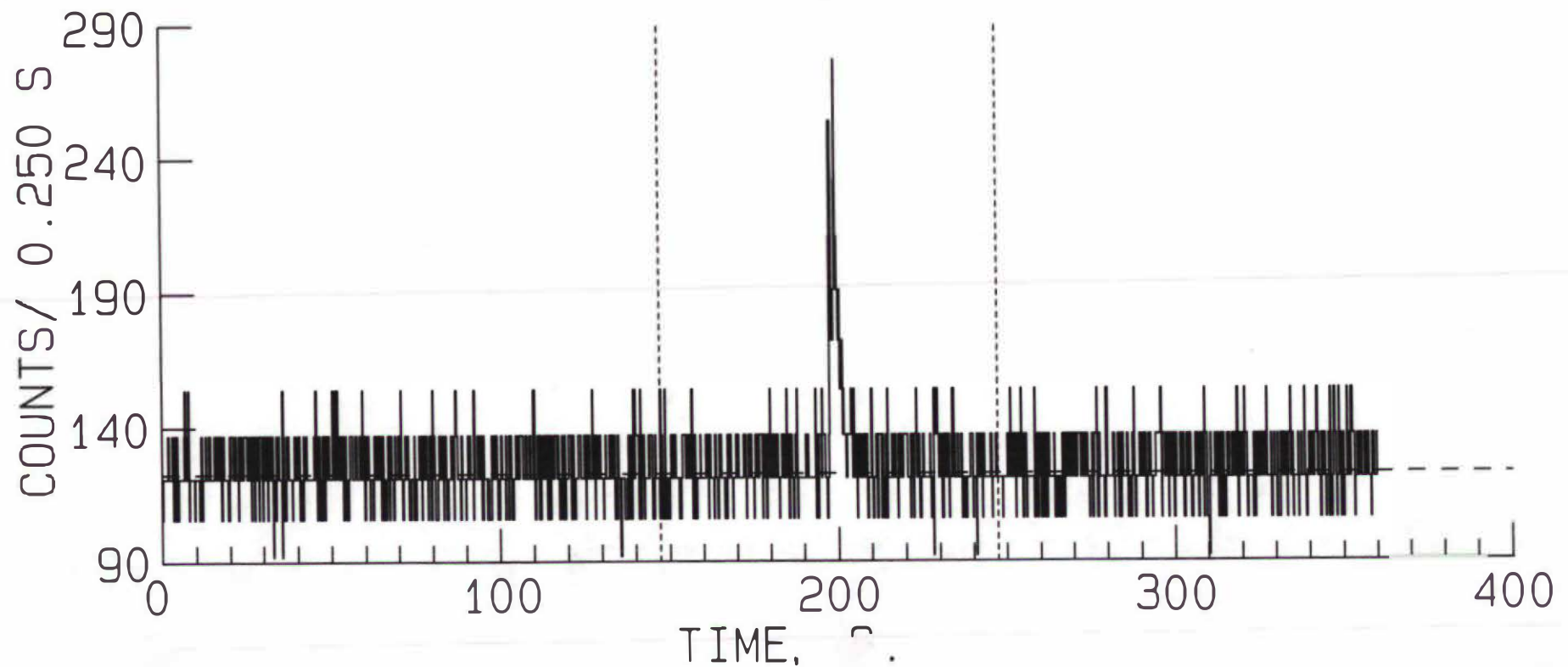
ULYSSES RT

14/11/97

15/ 7/95 75060.114 s

21- 142 keV

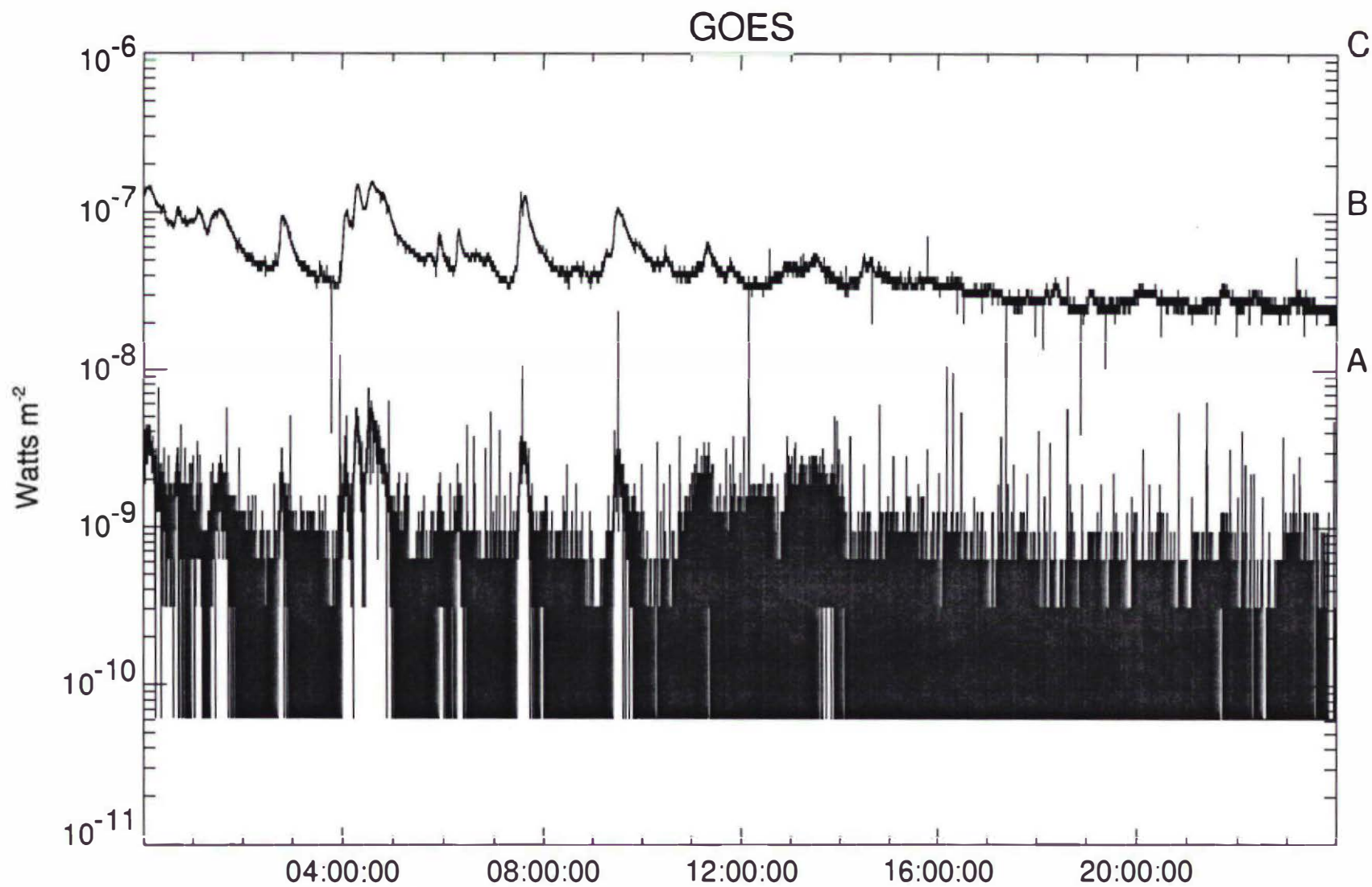
N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From cline@tgrs.gsfc.nasa.gov Tue Jul 18 10:58 PDT 1995
Date: Tue, 18 Jul 1995 10:58:45 -0700
Mime-Version: 1.0
 : KHURLEY@sunspot.ssl.berkeley.edu
 .om: cline@tgrs.gsfc.nasa.gov (T L Cline)
Subject: Kevin's events on 15 July - Konus saw the second one

>Date: Tue, 18 Jul 1995 12:31:17 -0400 (EDT)
>From: "LHEAVX::BUTTERWORTH"@TGRS.GSFC.NASA.GOV
>Subject: Kevin's events on 15 July - Konus saw the second one
>To: TOM
>Cc: DAVIDP,BUTTERWORTH
>
>Tom,
>
>There are no candidates in the Konus data that might correspond to Kevin's
>10:12 event. There are no increases in any detector/range near that time
>and Konus seems to have been performing normally throughout that period.
>
>The 20:54 event was seen. It was a strong, hard burst seen by the S2
>detector (and therefore not favorably placed for TGRS). The Konus trigger
>at 20:59:27:288 was about half way through an 0.2s rise to the strongest,
>hardest peak. There was an exponential decay in the 50-200keV and 200-
>750keV ranges, lasting some 0.8s. Then came a second peak; weaker, softer
>and more symmetrical than the first, which also lasted about 1.0s.
>
>Paul.

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



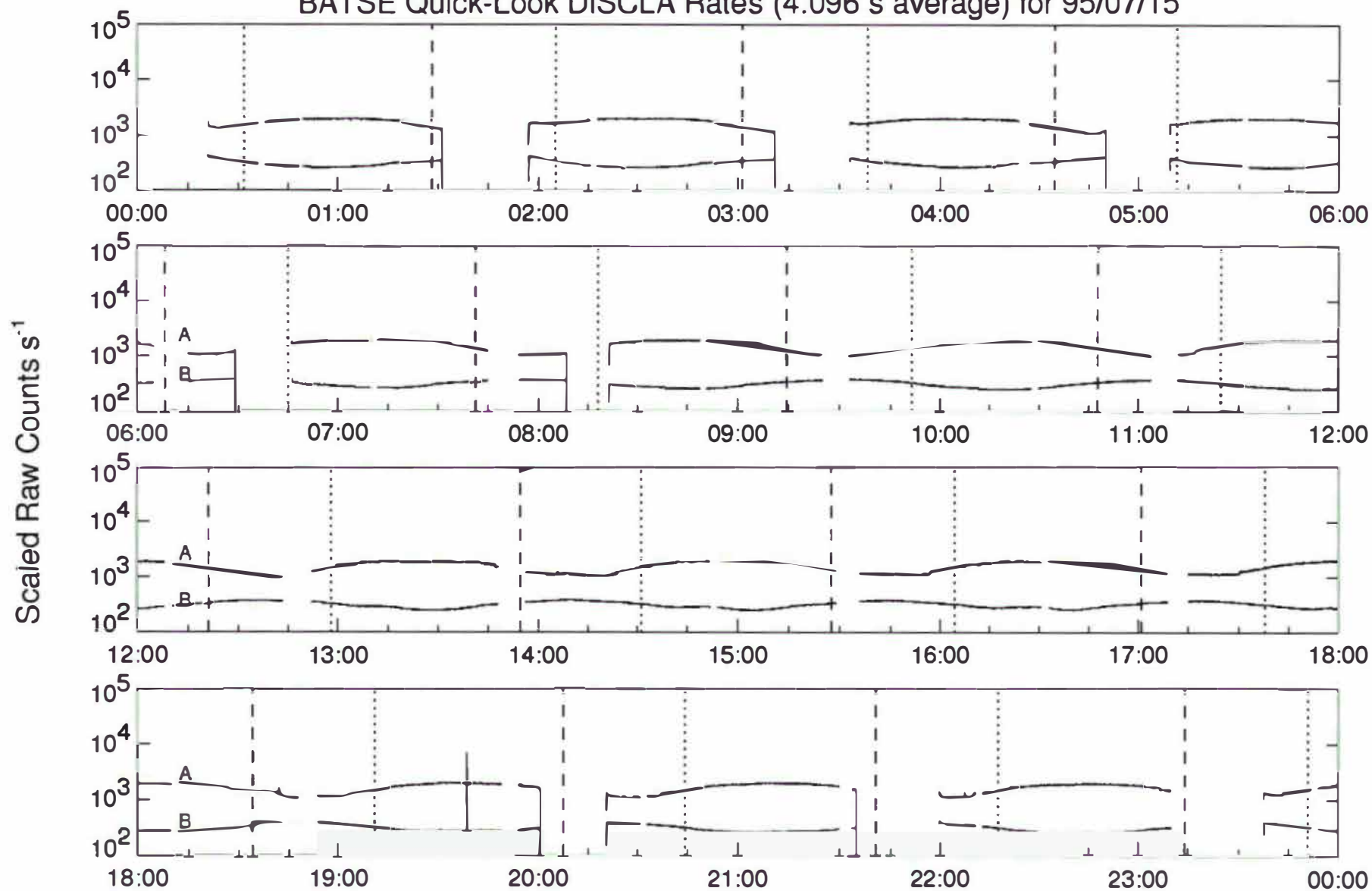
Data Start: 95/07/15, 0000:00

Plot created: 95/07/17, 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 95/07/15



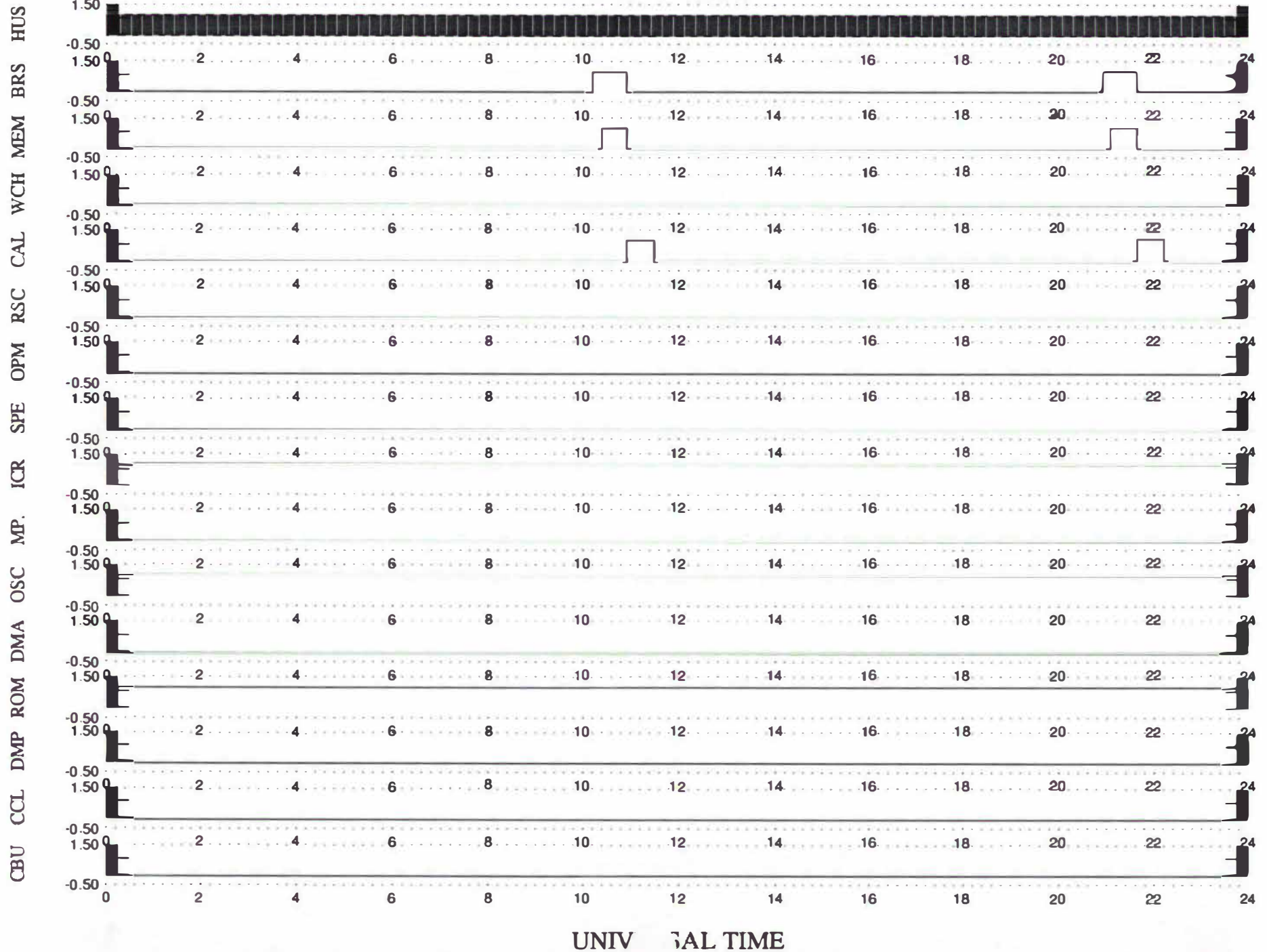
Current Time: 95/07/17, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

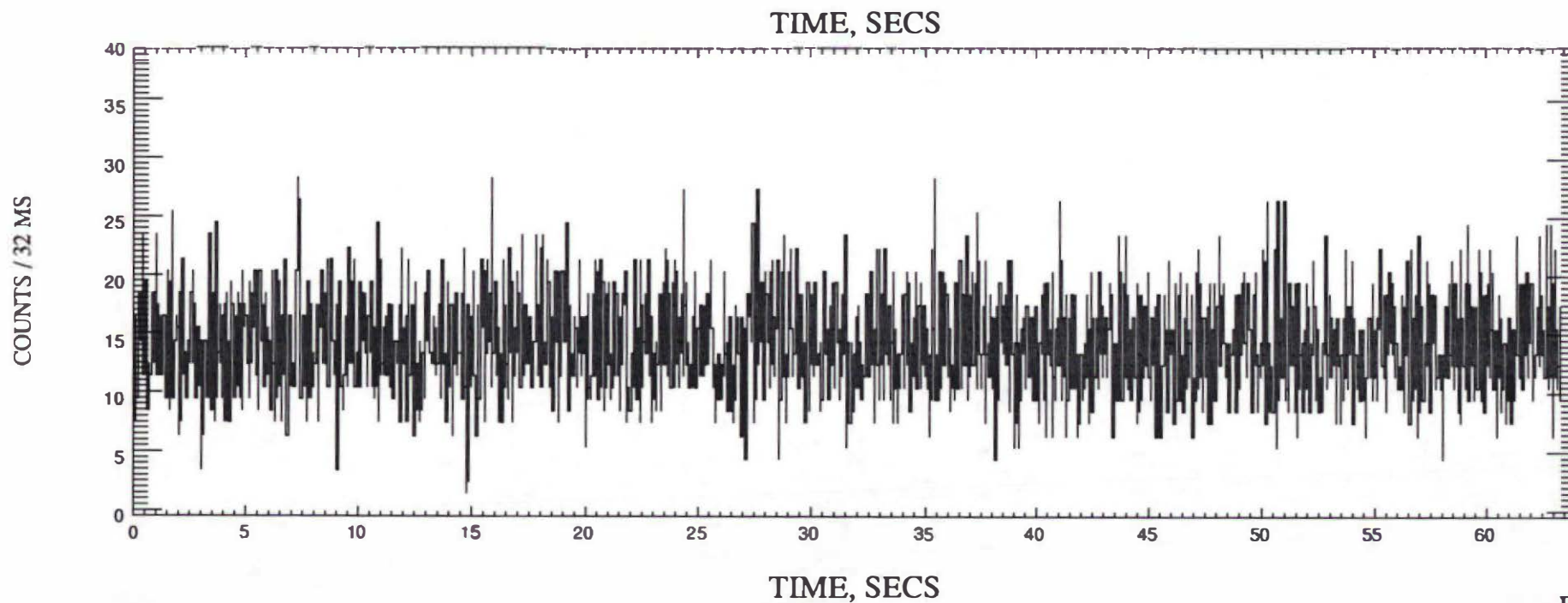
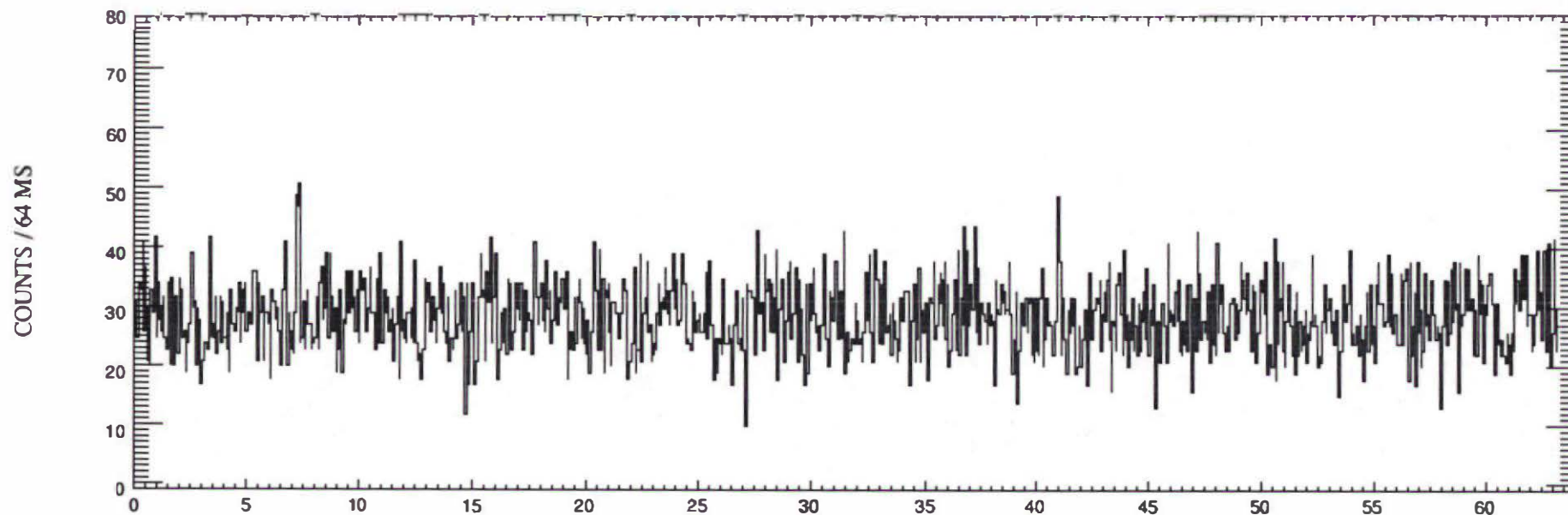
HUS MODES EDR day 196, year 1995 to day 196, year 1995 BURST NUMBER 6, 7

1/25/96



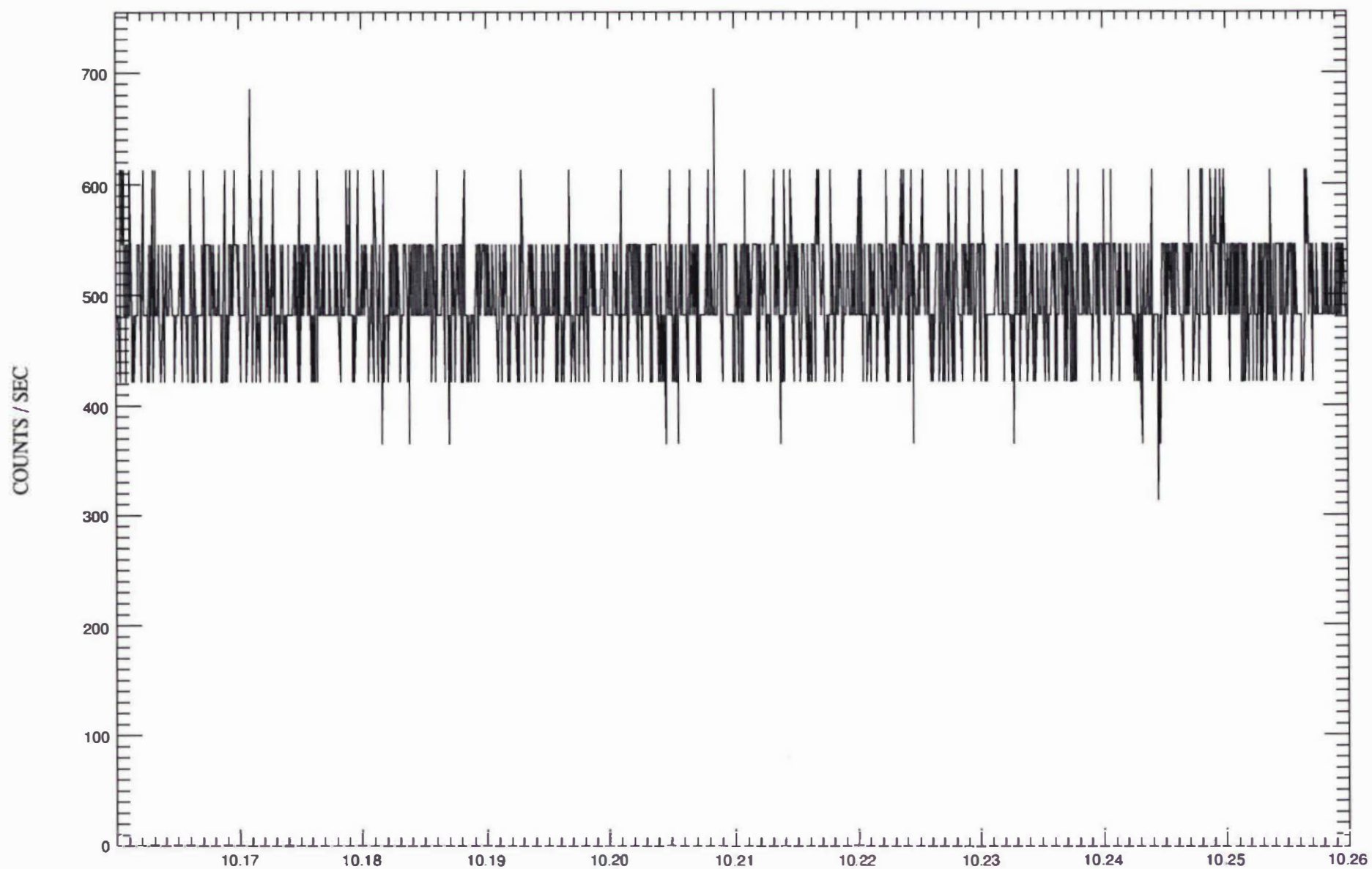
HUS 2A TRIGGERED DATA EDR day 196, year 1995
Burst Counter 6 at UT=10.208617947896 h=36751.025 s 10:12:31.025

1/25/96



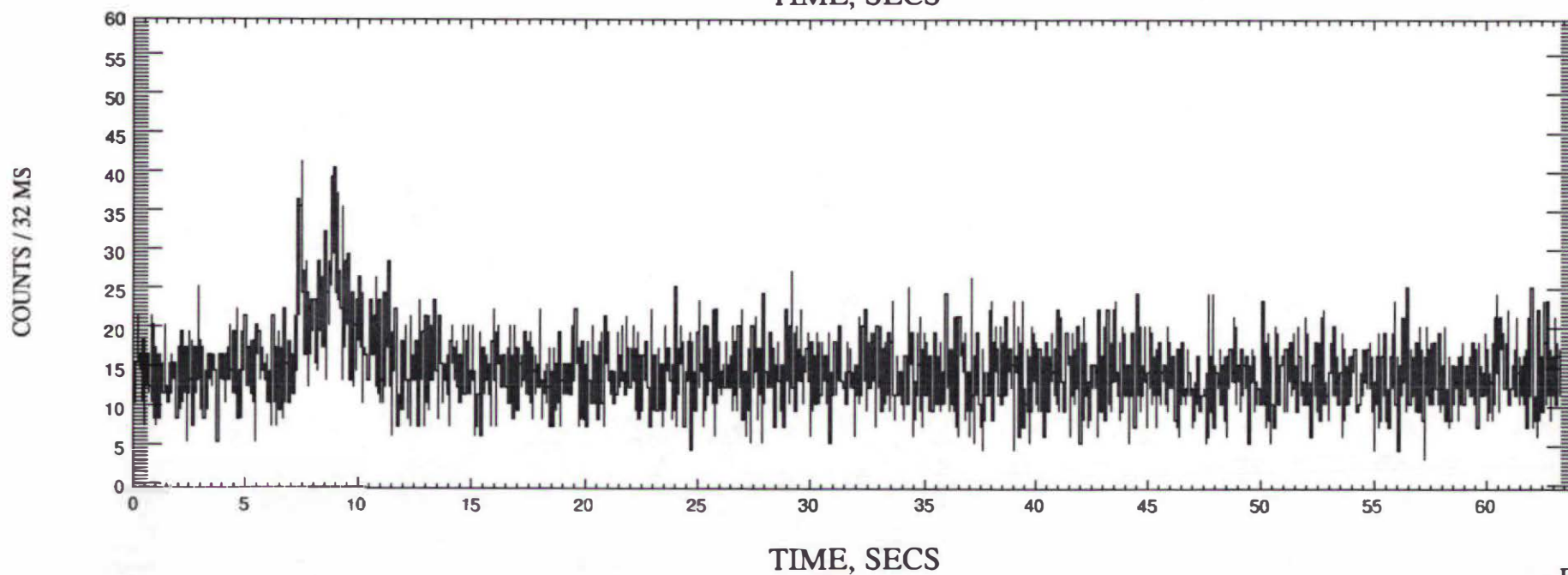
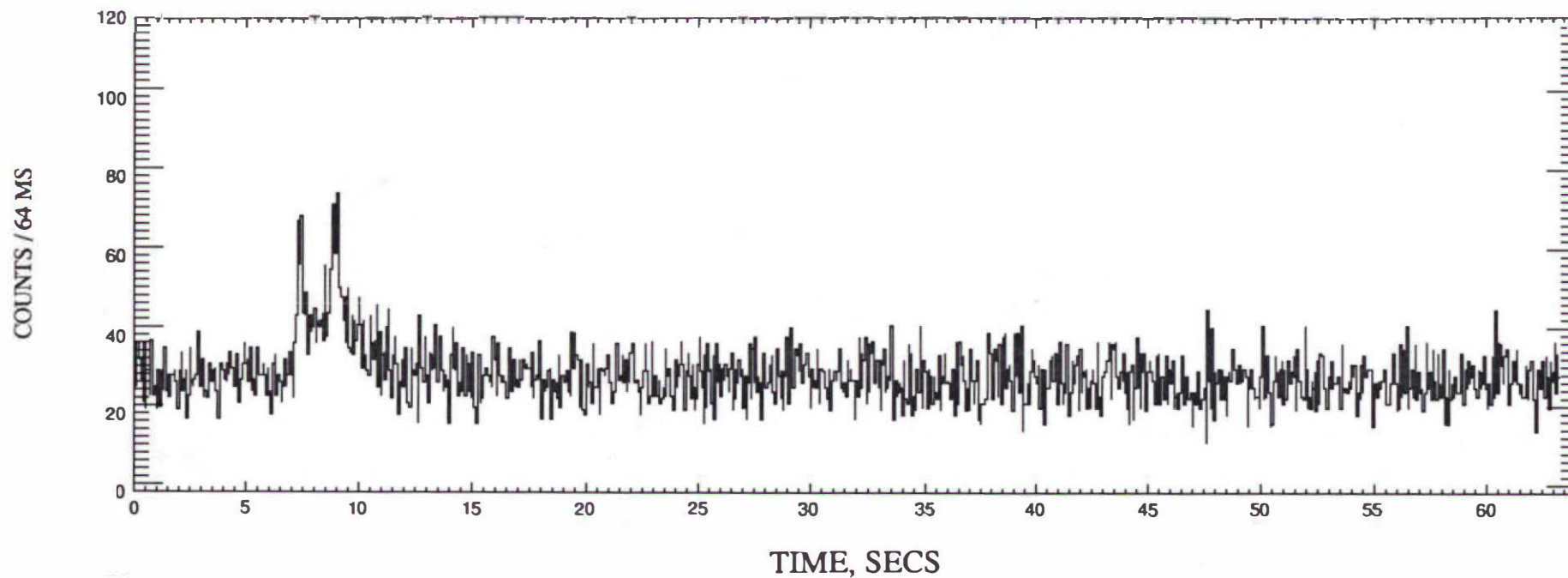
HUS 2A, MODE 1, NOT AVERAGED QEDR day 196, year 1995 to day 196, year 1995
CALIBRATION DATA INCLUDED

7/17/95



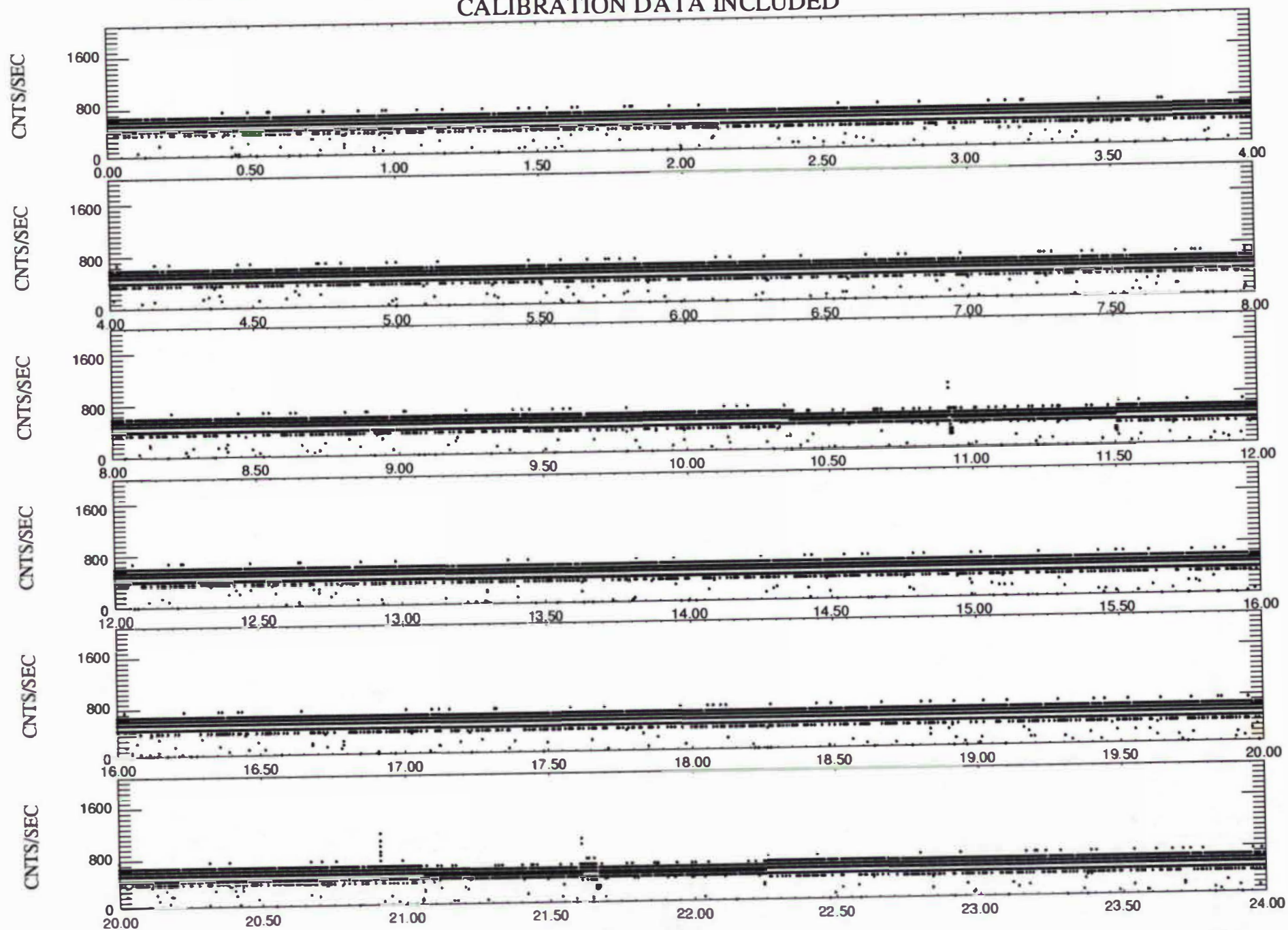
HUS 2A TRIGGERED DATA EDR day 196, year 1995
Burst Counter 7 at UT=20.904955923292 h=75257.841 s 20:54:17.841

1/25/96

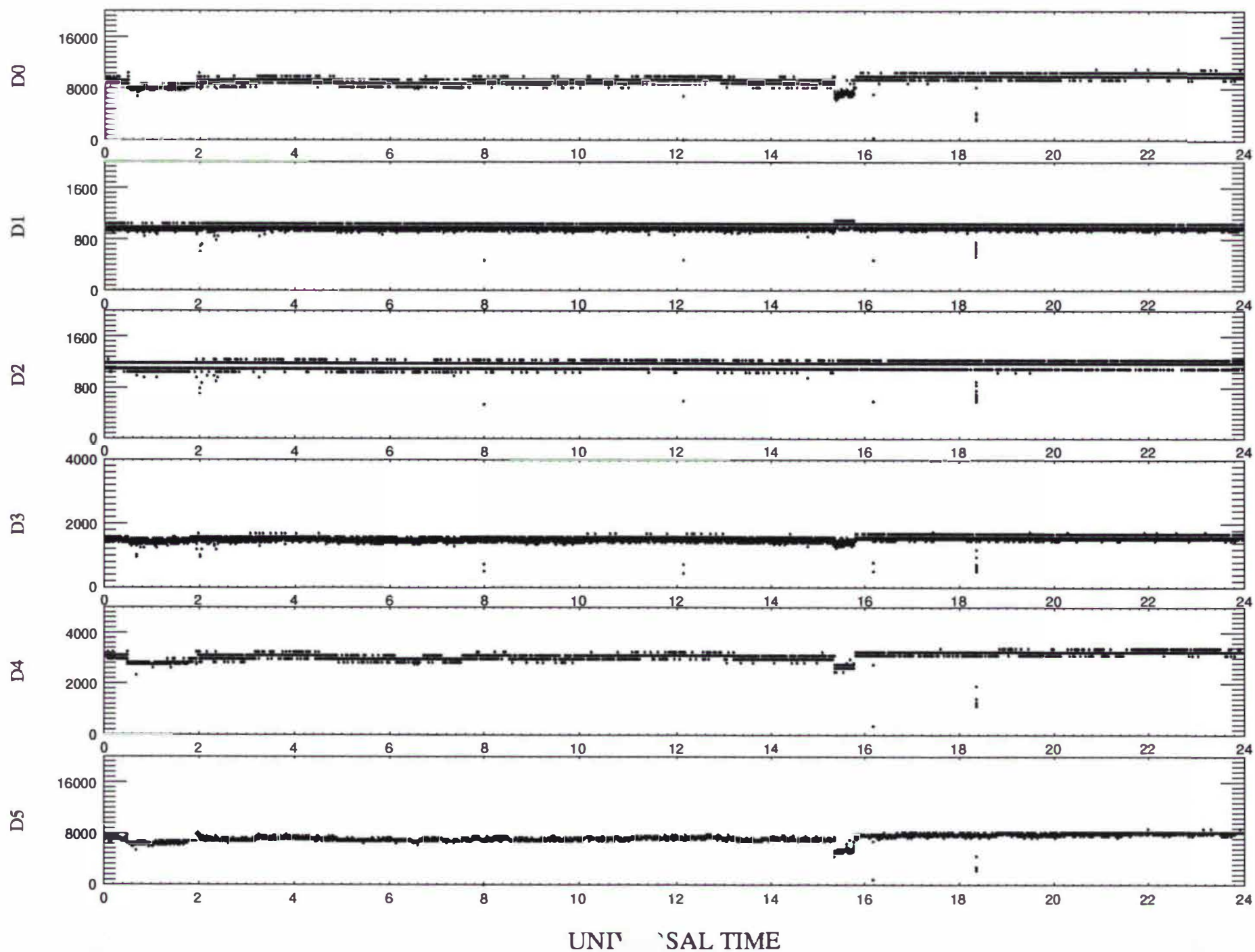


HUS 2A, MODE 1, NOT AVERAGED EDR day 196, year 1995 to day 196, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



From DEAL@SSLLES.MSFC.NASA.GOV Mon Jul 17 11:17 PDT 1995
Date: Mon, 17 Jul 1995 13:16:19 -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@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3667

TIME: TJD=9914 SECONDS=61753

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

From DEAL@ssl.msfc.nasa.gov Thu Jul 20 09:25 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Thu, 20 Jul 1995 11:25:12 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3668

BATSEARCH PROGRAM

No

BATSE BURST # 3668
EVENT OF 1995 JUL 16 DAY OF YEAR=197
EVENT CROSSING TIME AT BATSE : 82950. S. OR 23:02:30.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 96.000 5.000
BATSE PEAK COUNTING RATE: 14000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 16/ 7/ 95 IS:
RA= 66.537 DEC= 81.878 DIST= 2.142 AU
BATSE-ULYSSES DISTANCE = 320451469. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=102.05 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -223.22 SECS.
CROSSING TIME AT ULYSSES IS 82727. S. OR 22:58:46 +/- 228.10 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 16/ 7/ 95 IS:
RA= 177.313 DEC= 1.723 DIST= 1.756 AU
MARS-BATSE DISTANCE = 262637200. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 98.80 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -134.04 SECS.
CROSSING TIME AT MARS IS 82816. S. OR 23:00:15 +/- 148.27 SECONDS

BATSE BURST TRIGGER

NO.: 3668

TIME: TJD=9914 SECONDS=82950

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=107.7 AZIMUTH=005.7 ERROR= DEGREES

COMMENTS:

BURST LASTING ~ 0.15 S. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3668	950716	9914	82950	14000	096	+05	.15

14000 x .15 = 2100 c => 20-40 c m
Ulysses

26 / 7 / 95

ULYSSES RT

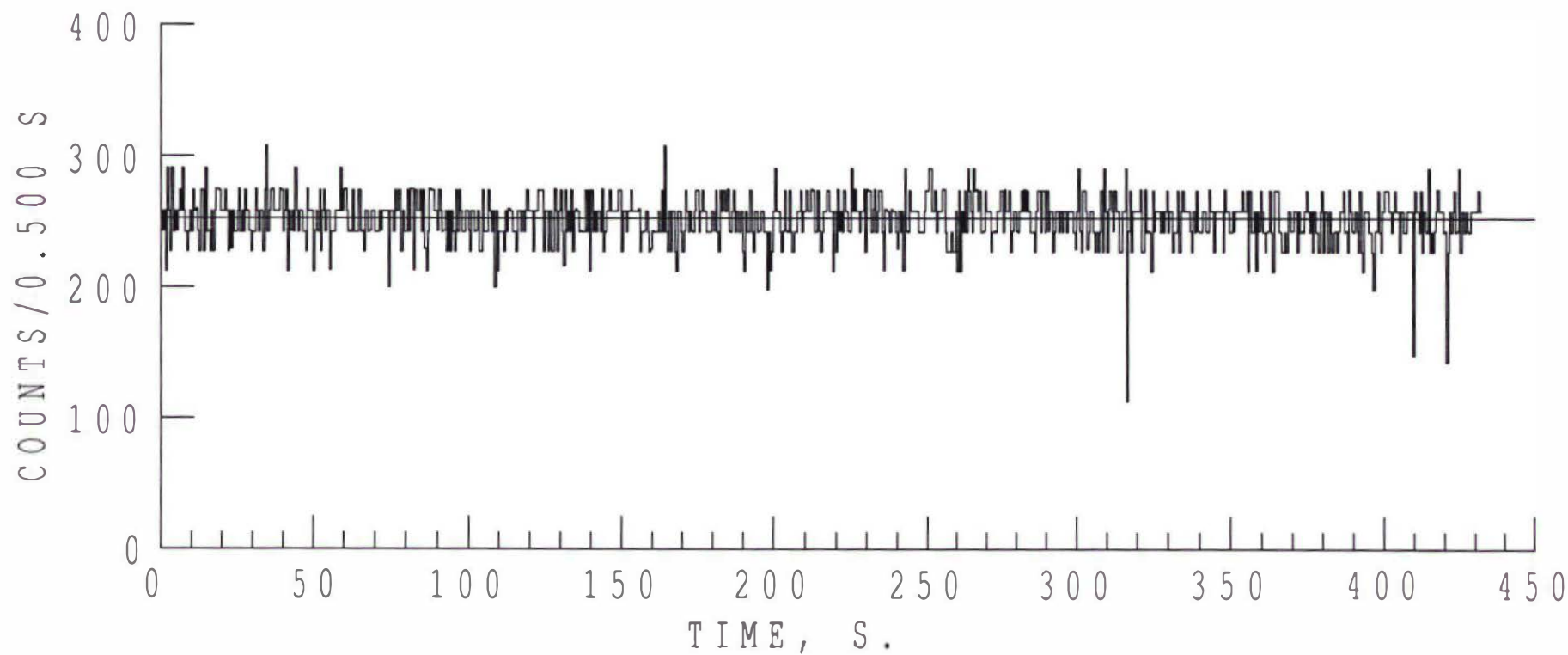
16 / 7 / 95 82512.094 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

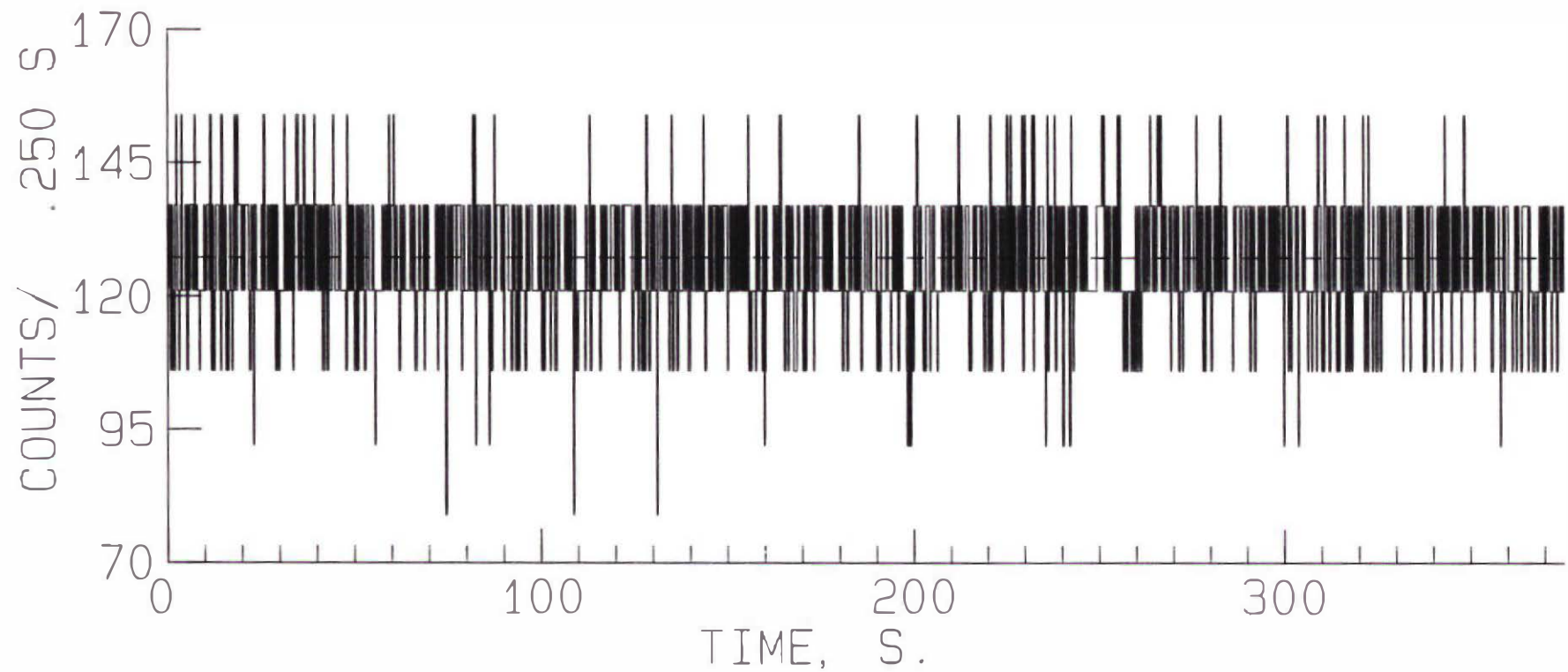
>4.0 SIGMA FLUCTUATIONS



ULYSSES RT
16/ 7/95 82512.094 s
21- 146 keV

28/ 7/95

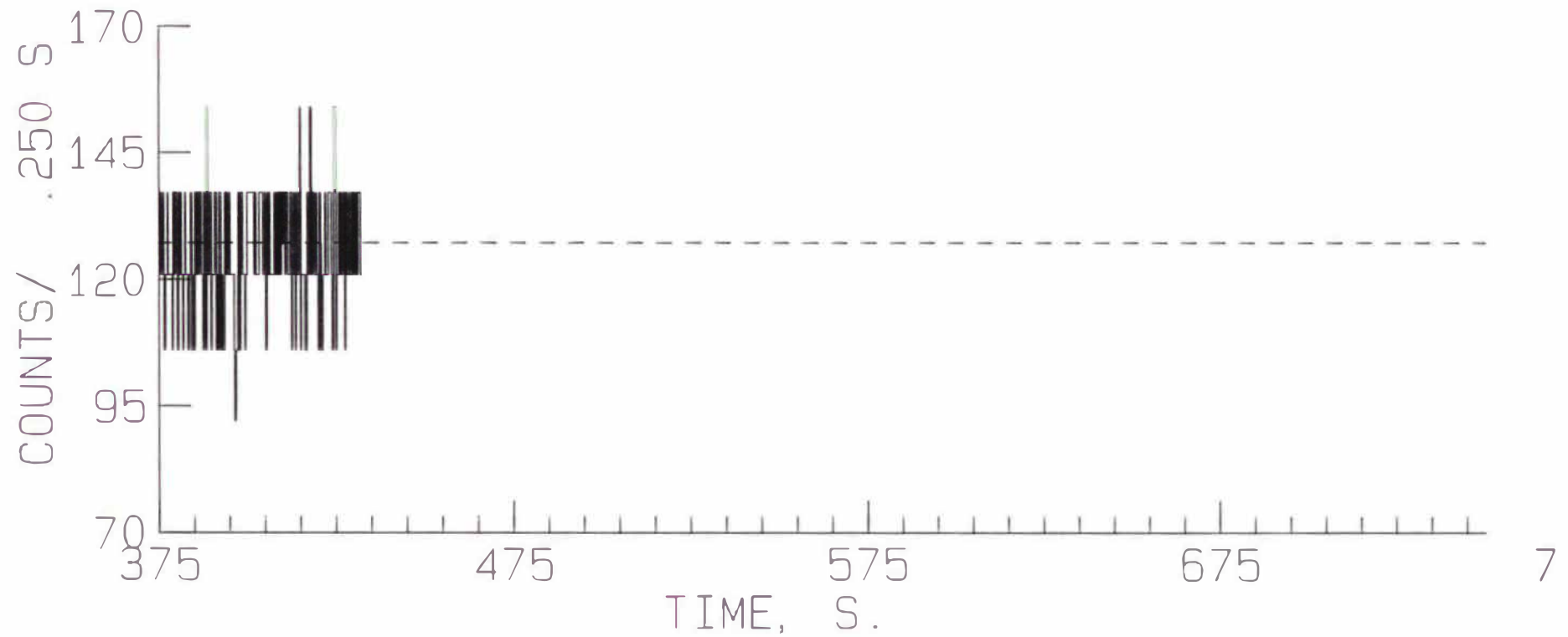
N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



ULYSSES RT
16/ 7/95 82512.094 s
21- 146 keV

28/ 7/95

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



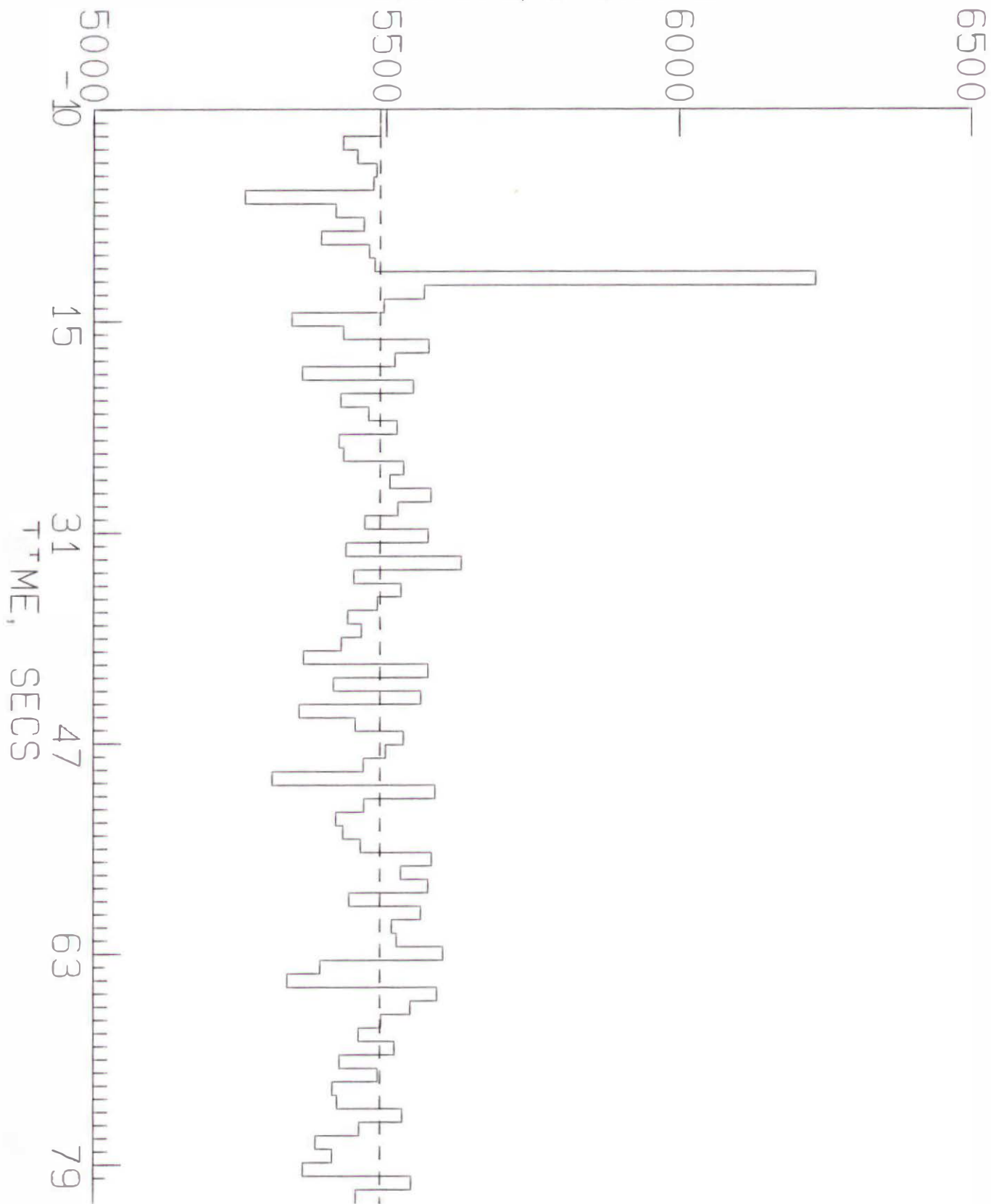
BACODINE

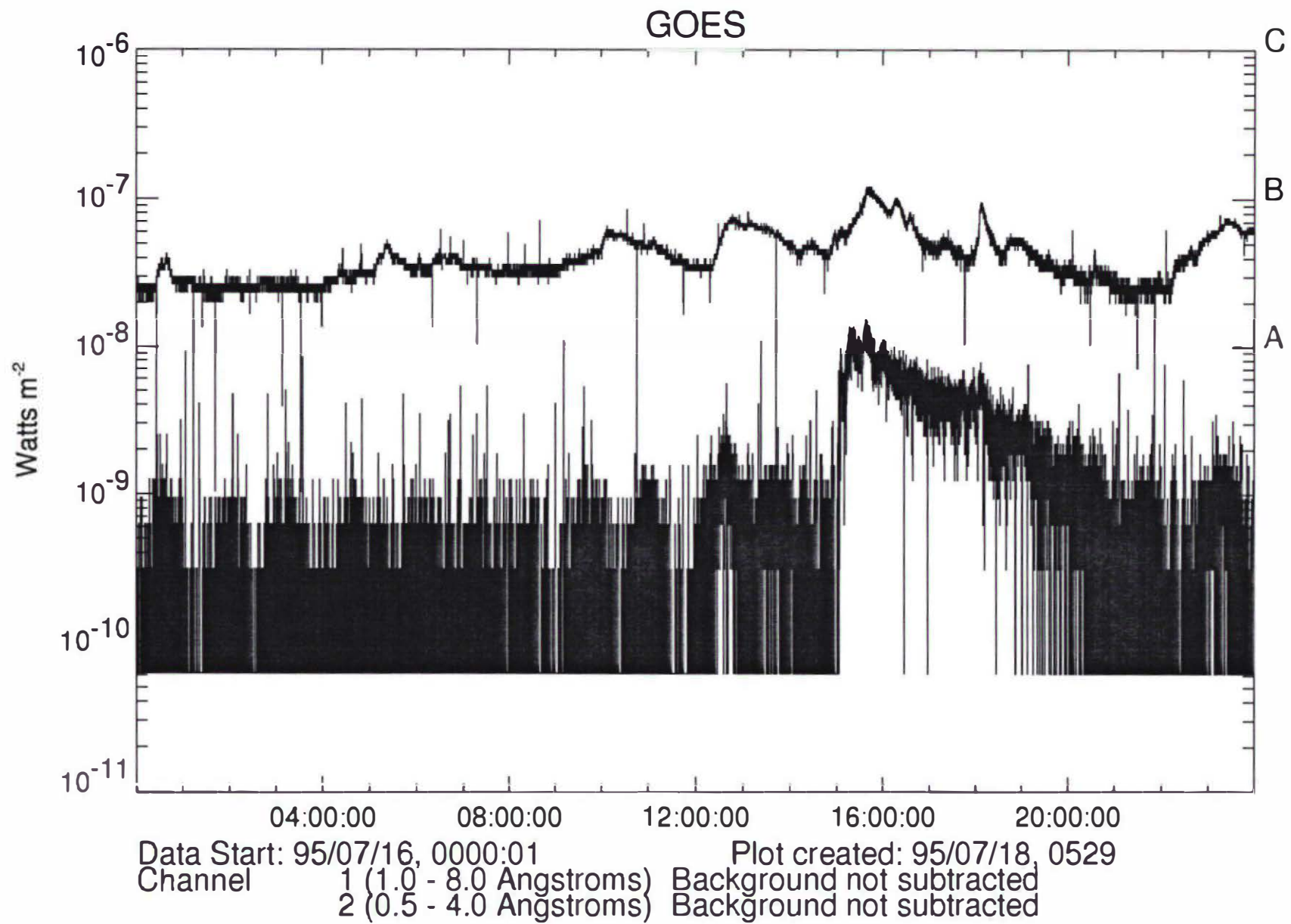
16/07/95

82938.545

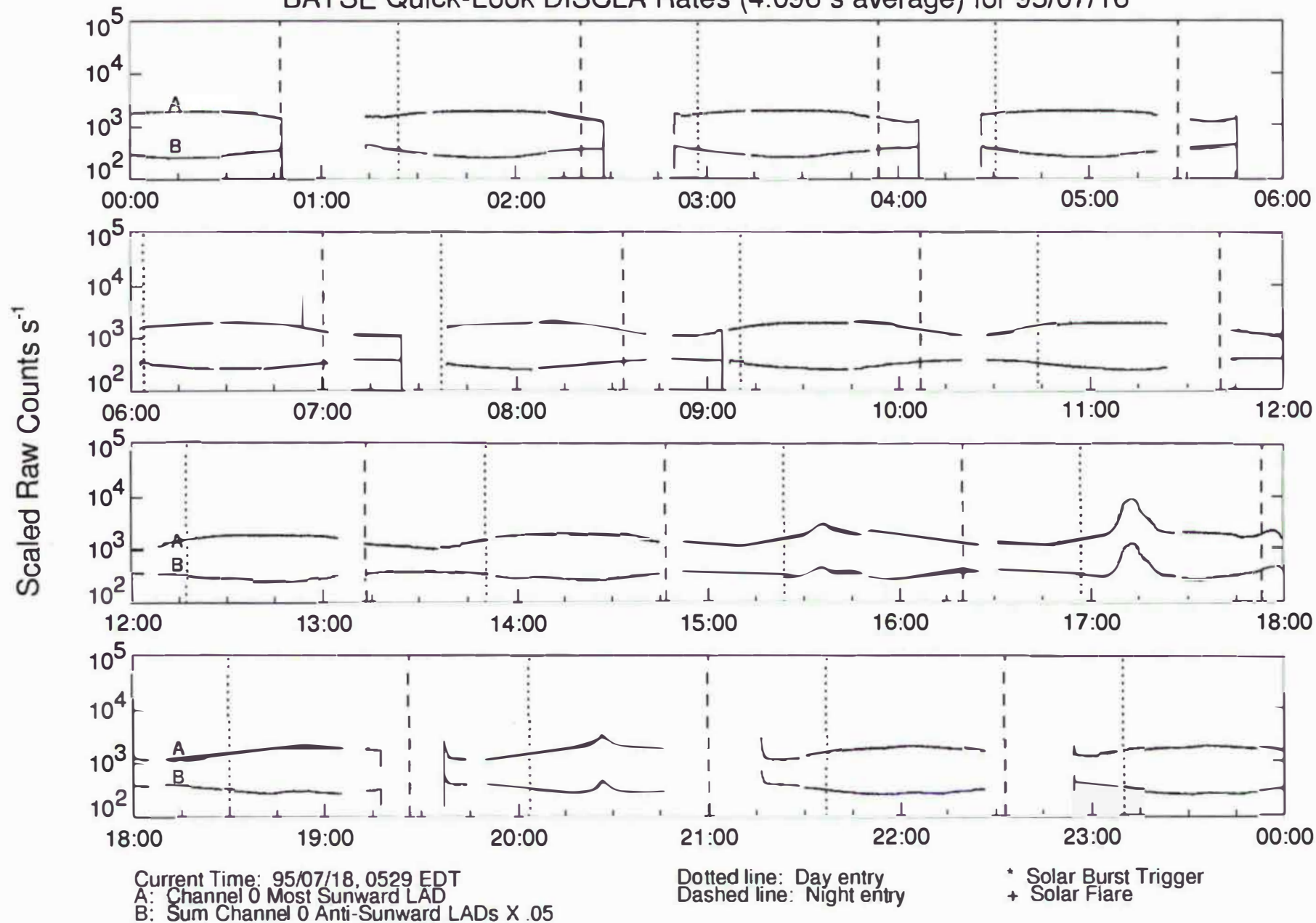
25- 100 keV

COUNTS/1.024 S



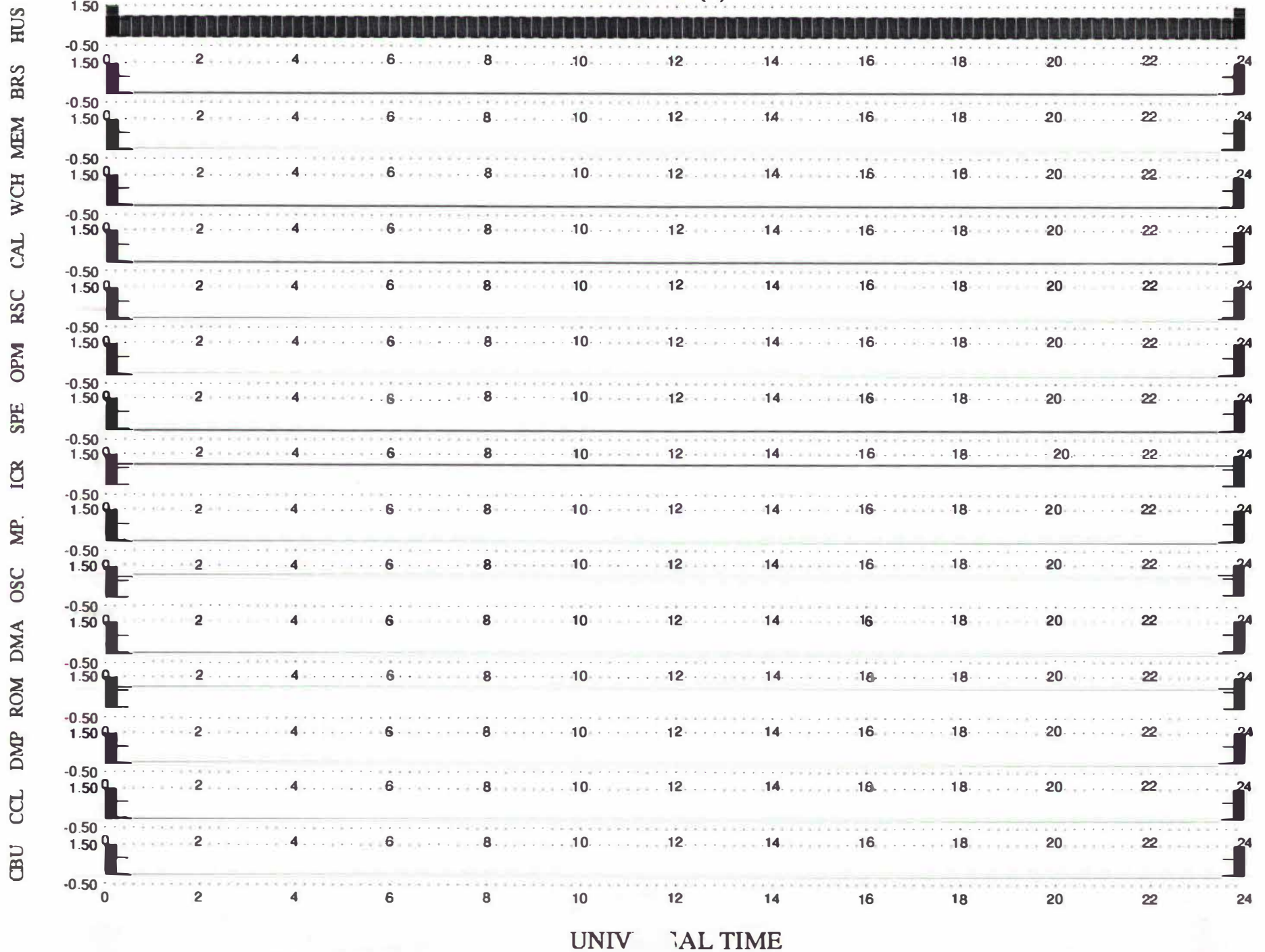


BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/16



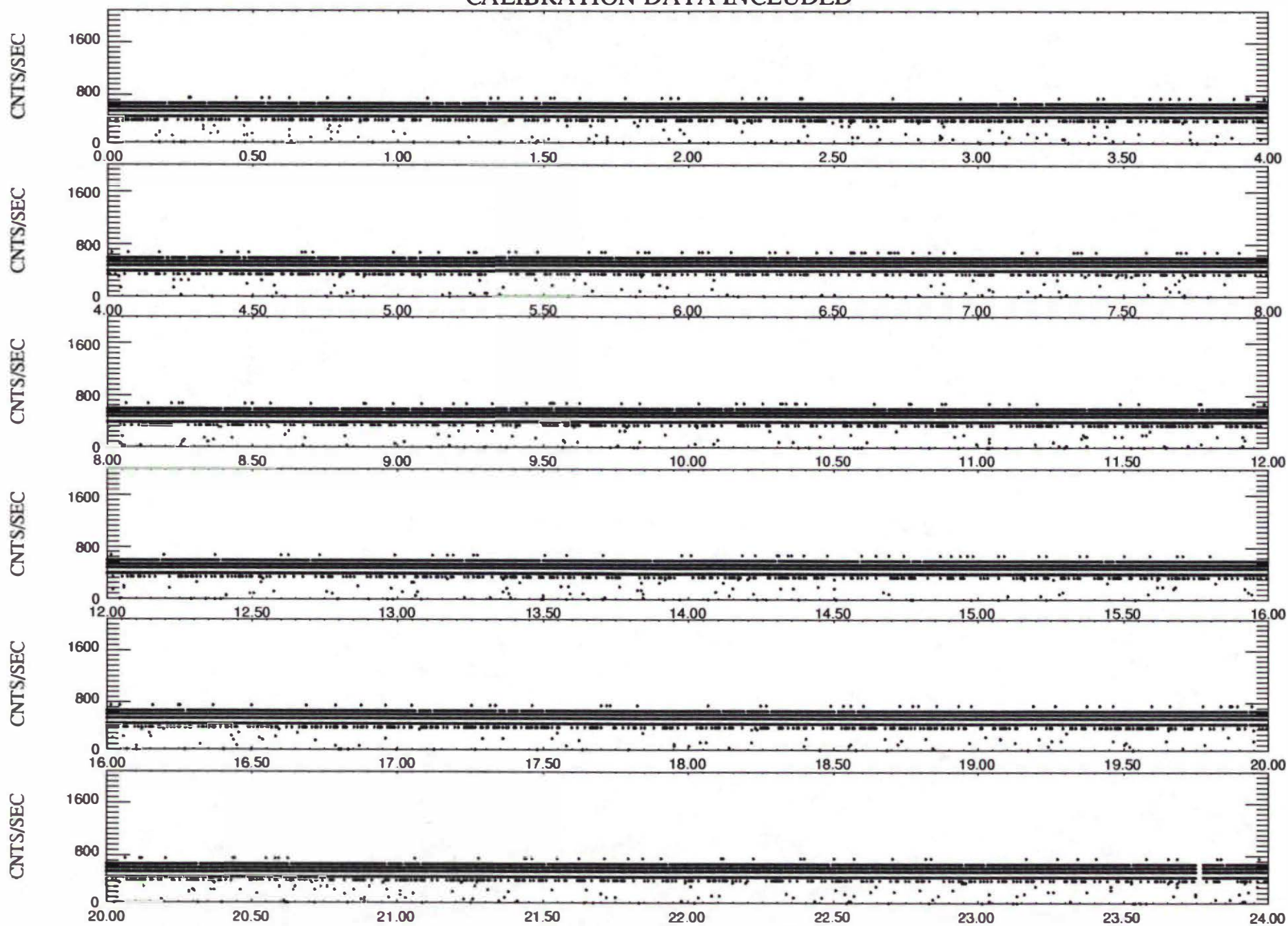
HUS MODES EDR day 197, year 1995 to day 197, year 1995
NO BURST (7)

1/25/96

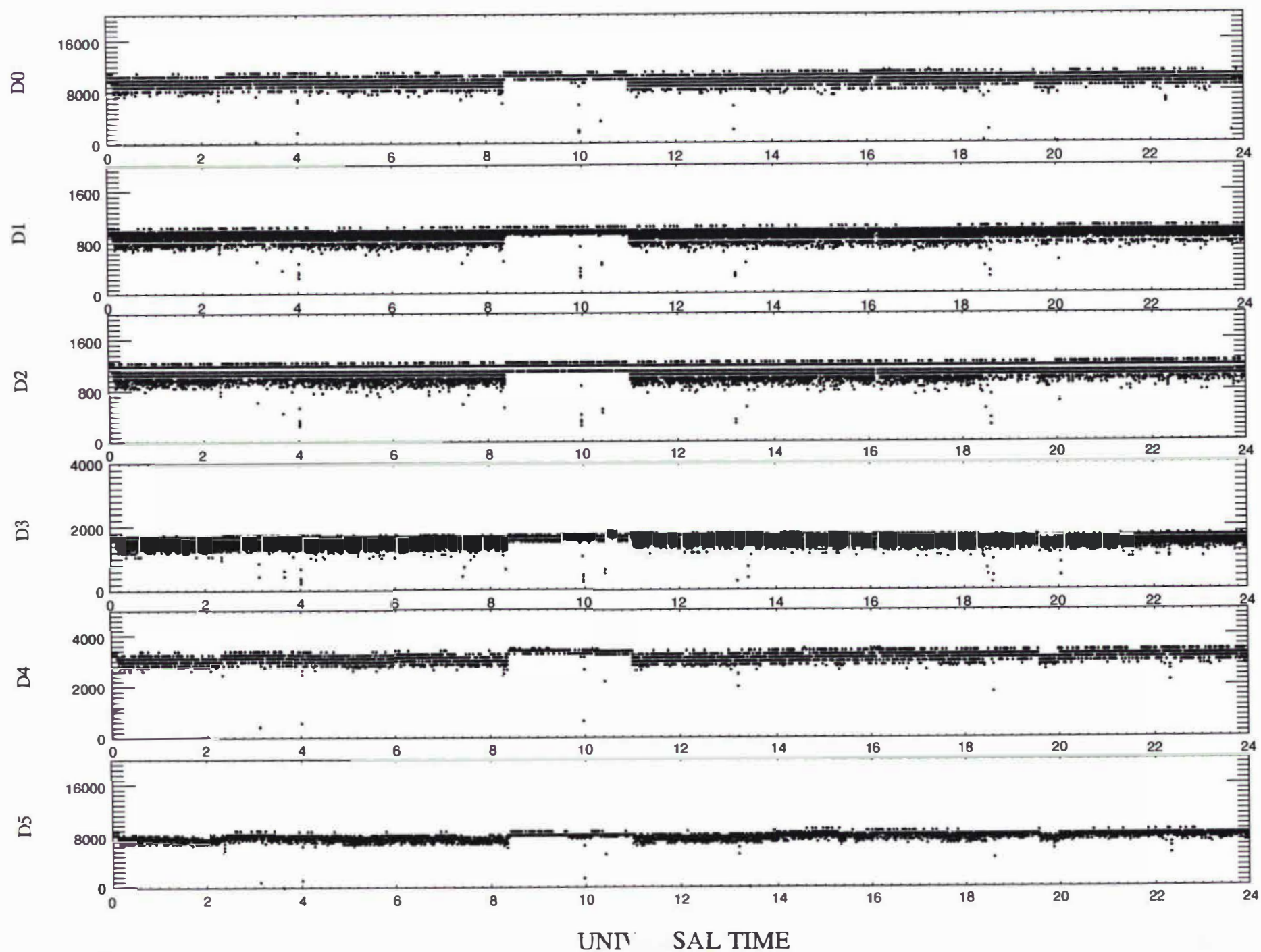


HUS 2A, MODE 1, NOT AVERAGED EDR day 197, year 1995 to day 197, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV SAL TIME



From HAGEDON@fender.msfc.nasa.gov Tue Jul 18 09:31 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Tue, 18 Jul 1995 11:30:40 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3669

TIME: TJD=9915 SECONDS=06032

TYPE: SAA SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

From HAGEDON@fender.msfc.nasa.gov Tue Jul 18 09:33 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Tue, 18 Jul 1995 11:33:25 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3670

TIME: TJD=9915 SECONDS=17796

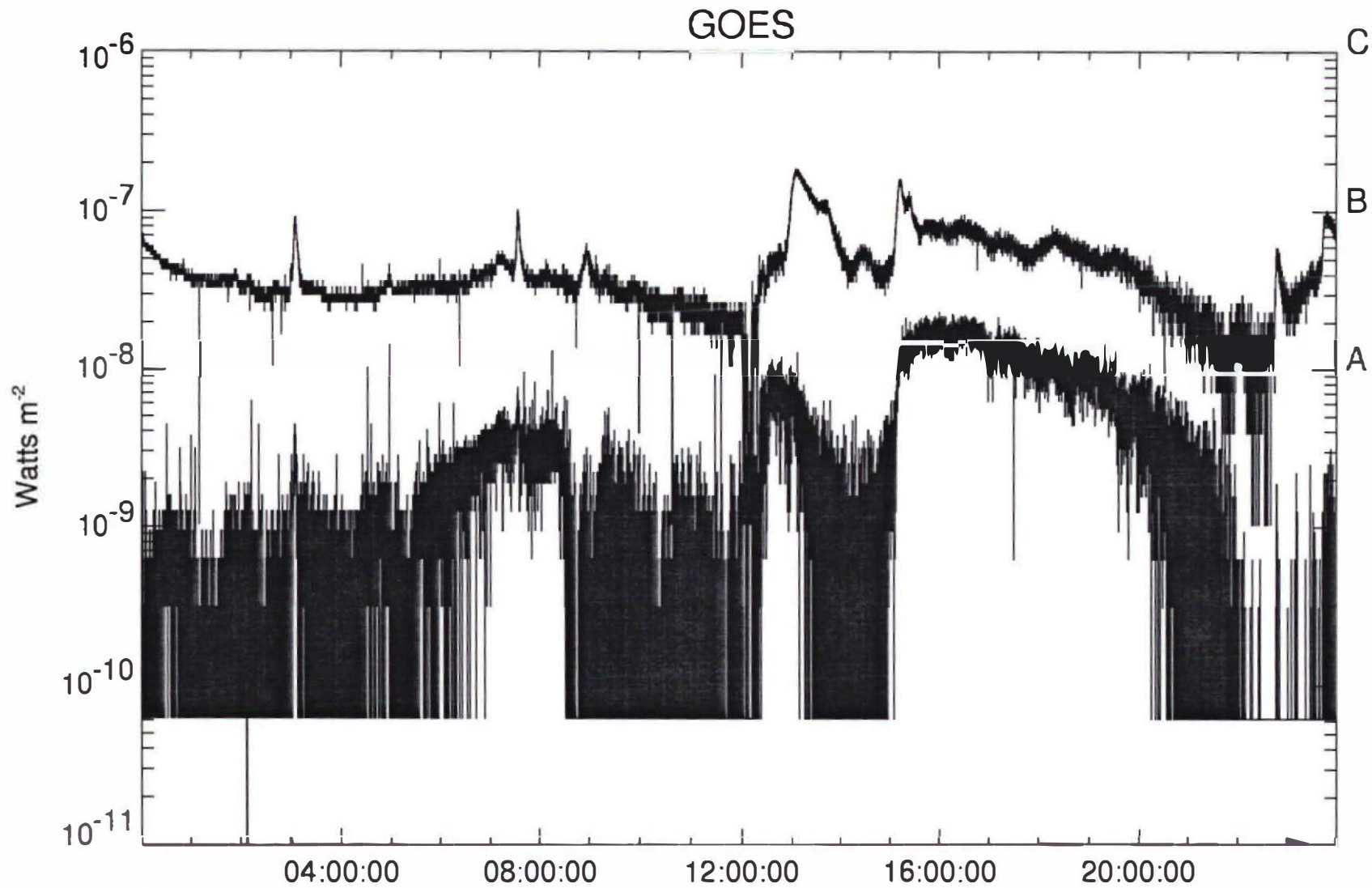
TYPE: SAA SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

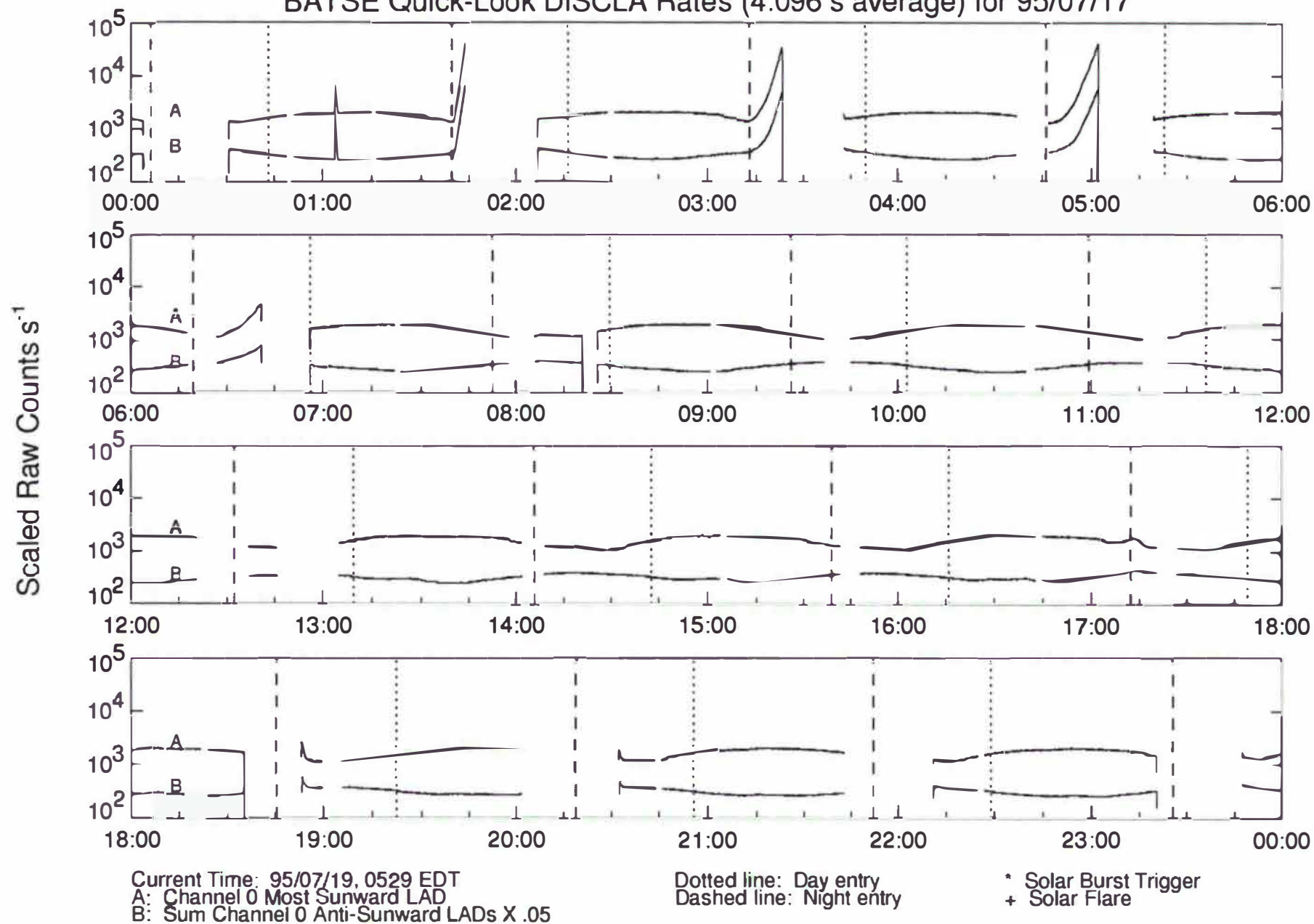


Data Start: 95/07/17, 0000:02

Plot created: 95/07/19, 0529

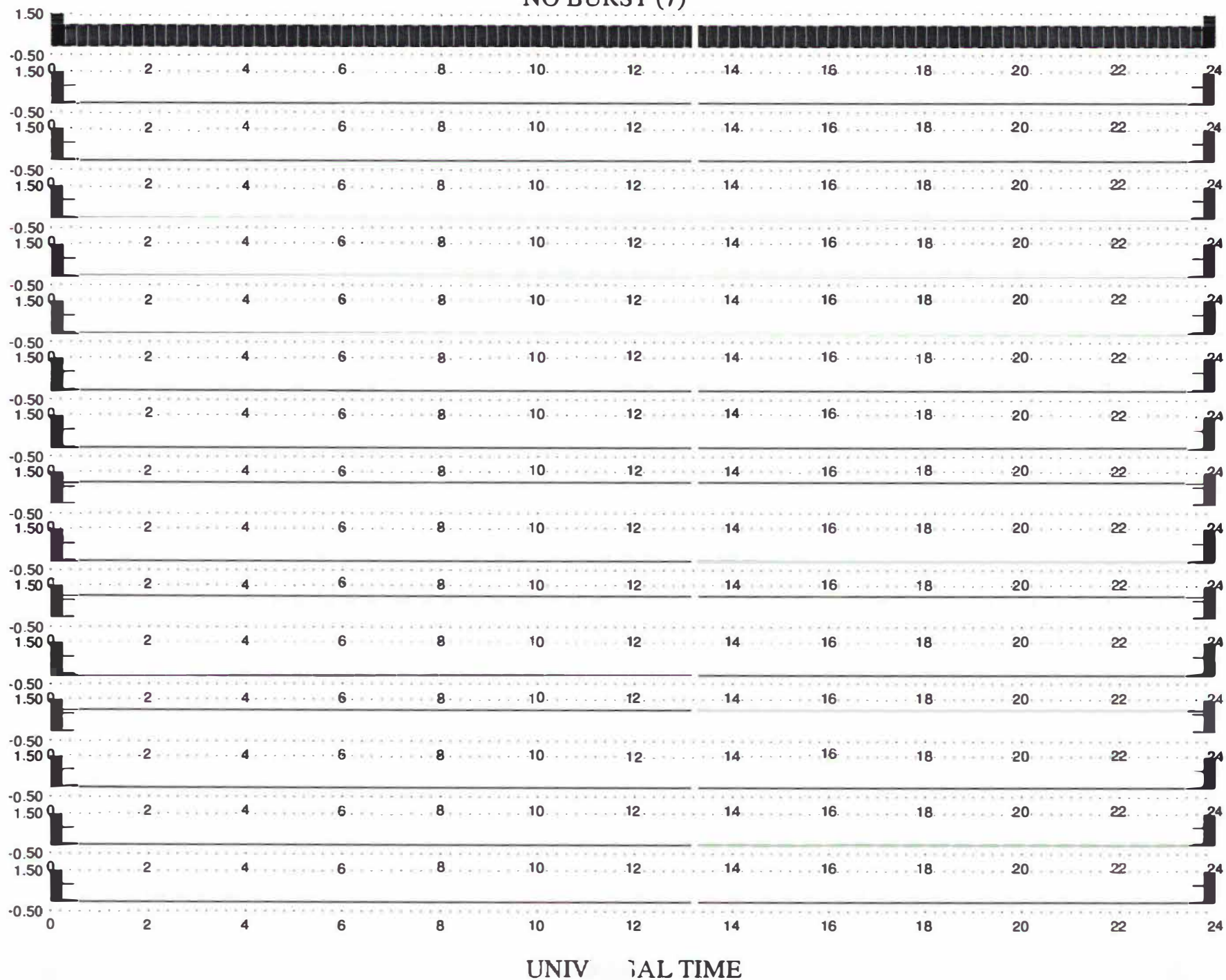
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/17



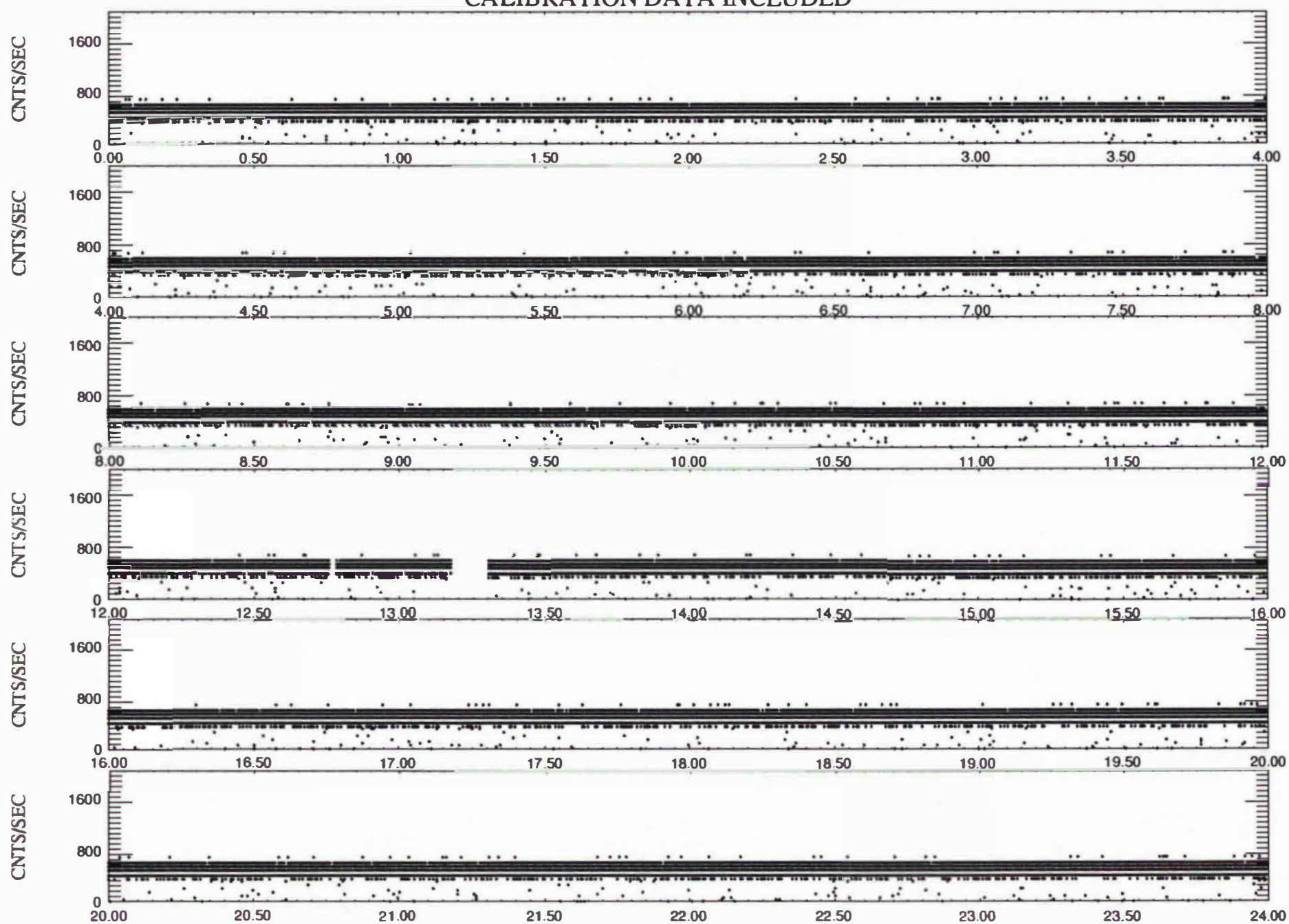
CBU	CCL	DMP	ROM	DMA	OSC	MP.	ICR	SPE	OPM	RSC	CAL	WCH	MEM	BRS	HUS
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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

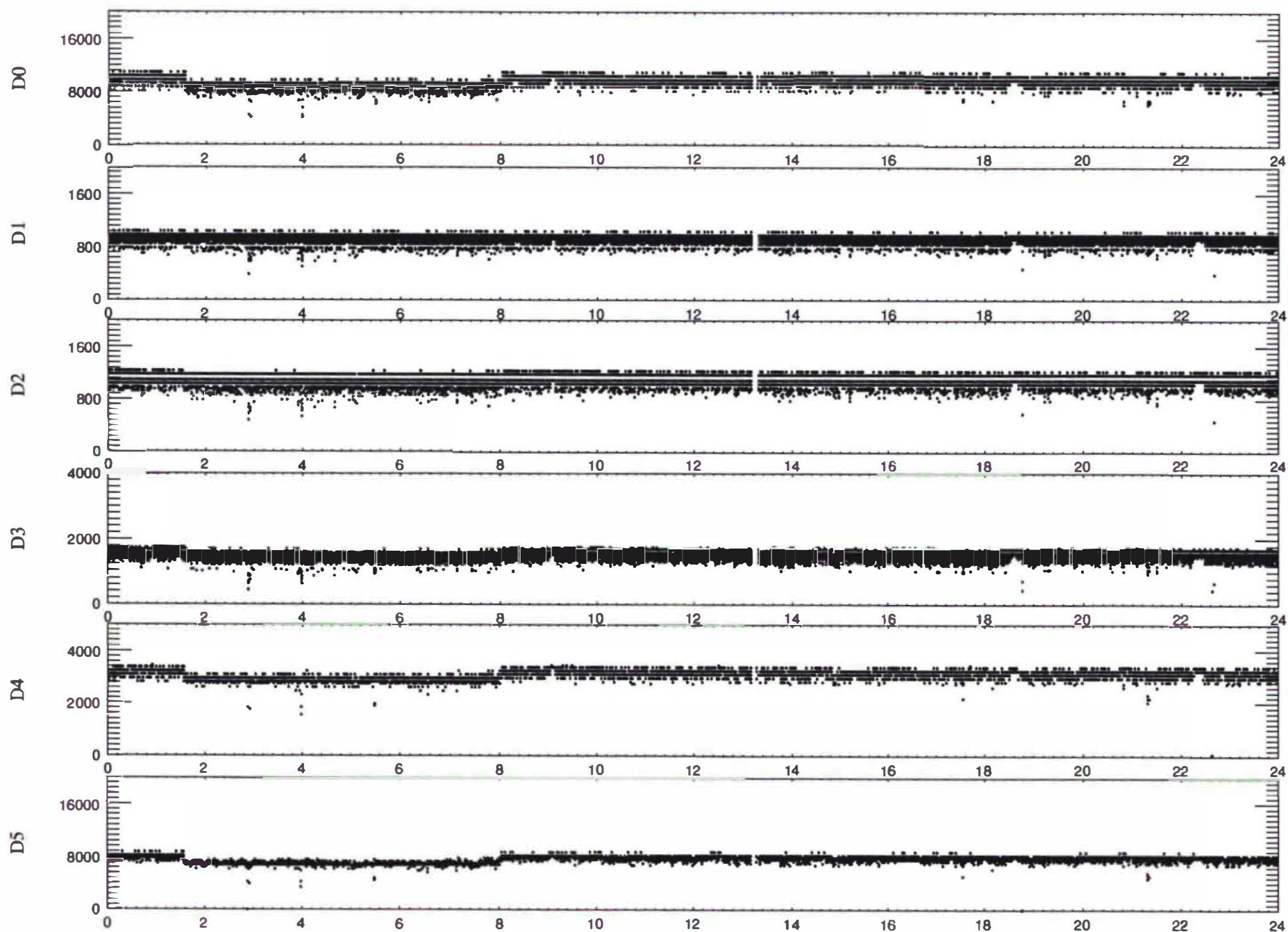


HUS 2A, MODE 1, NOT AVERAGED EDR day 198, year 1995 to day 198, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



UNIV. SAL TIME

From SAHI@ssl.msfc.nasa.gov Wed Jul 19 09:27 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Wed, 19 Jul 1995 11:27:09 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3671

BATSEARCH PROGRAM

No

BATSE BURST # 3671
EVENT OF 1995 JUL 18 DAY OF YEAR=199
EVENT CROSSING TIME AT BATSE : 64535. S. OR 17:55:35.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 200.000 32.000
BATSE PEAK COUNTING RATE: 4000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 18/ 7/ 95 IS:
RA= 74.370 DEC= 82.533 DIST= 2.154 AU
BATSE-ULYSSES DISTANCE = 322173242. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=117.47 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -495.65 SECS.
CROSSING TIME AT ULYSSES IS 64039. S. OR 17:47:19 +/- 208.02 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 18/ 7/ 95 IS:
RA= 178.368 DEC= 1.233 DIST= 1.769 AU
MARS-BATSE DISTANCE = 264626096. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=143.09 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -705.75 SECS.
CROSSING TIME AT MARS IS 63829. S. OR 17:43:49 +/- 81.33 SECONDS

BATSE BURST TRIGGER

NO.: 3671

TIME: TJD=9916 SECONDS=64535

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=74.7 AZIMUTH=270.3 ERROR= DEGREES

COMMENTS:

SINGLE WEAK PULSE, DUR.~4 SEC, FOLLOWED BY WEAKER PULSES, EMISSION LASTS
FOR ~50 SEC. MARGINALLY VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3671	950718	9916	64535	4000	200	+32	50

26 / 7 / 95

ULYSSES RT

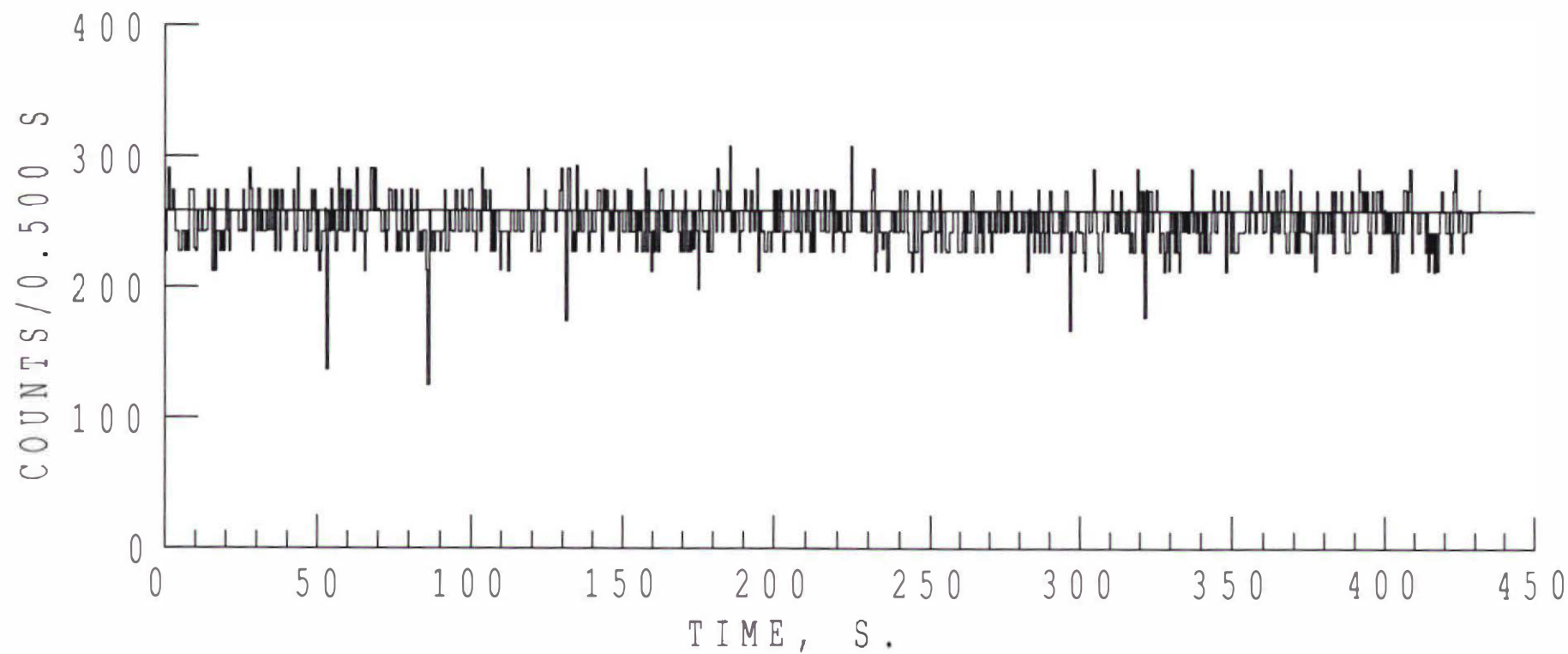
18 / 7 / 95 63828.199 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



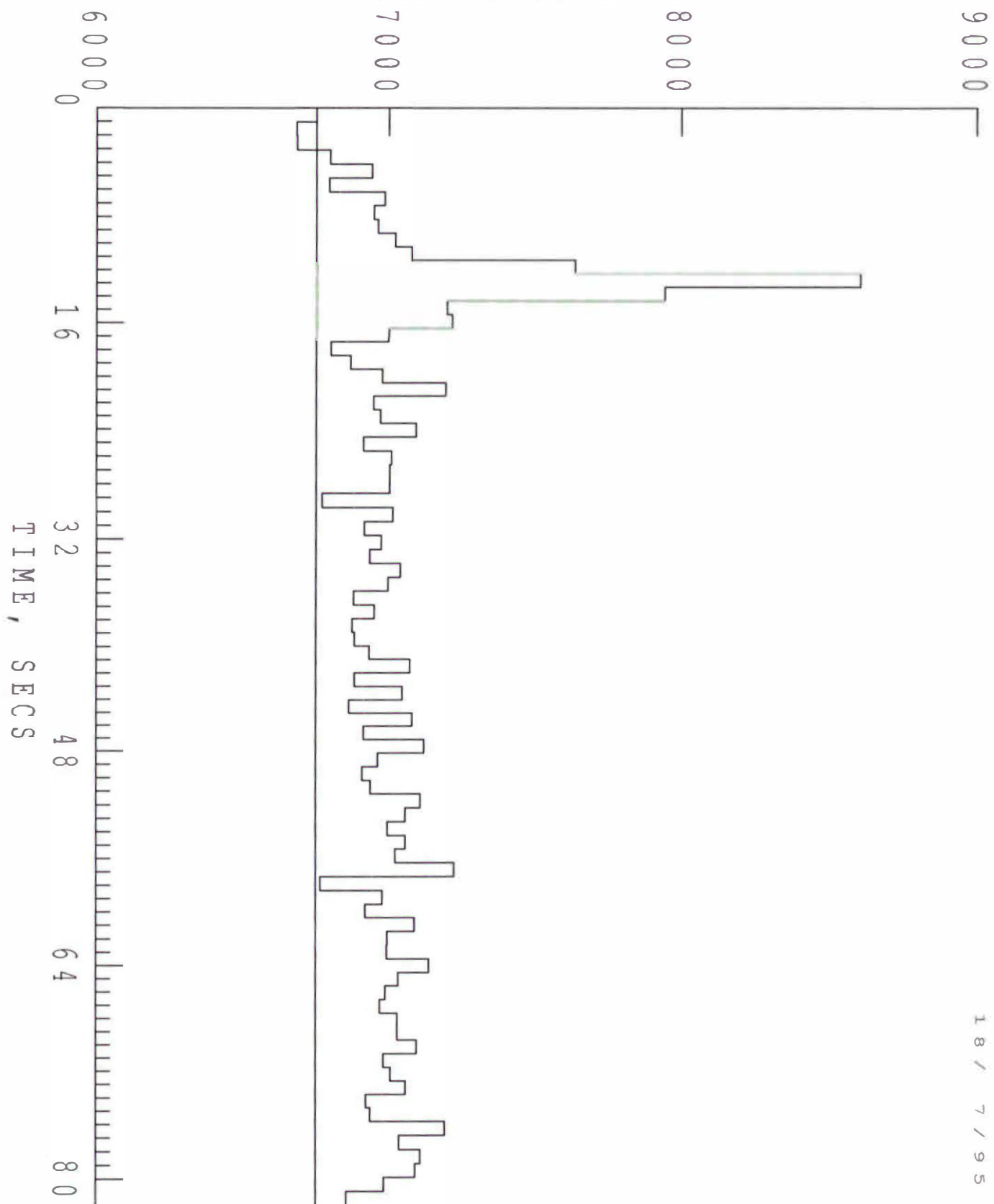
BACODINE

18/07/95

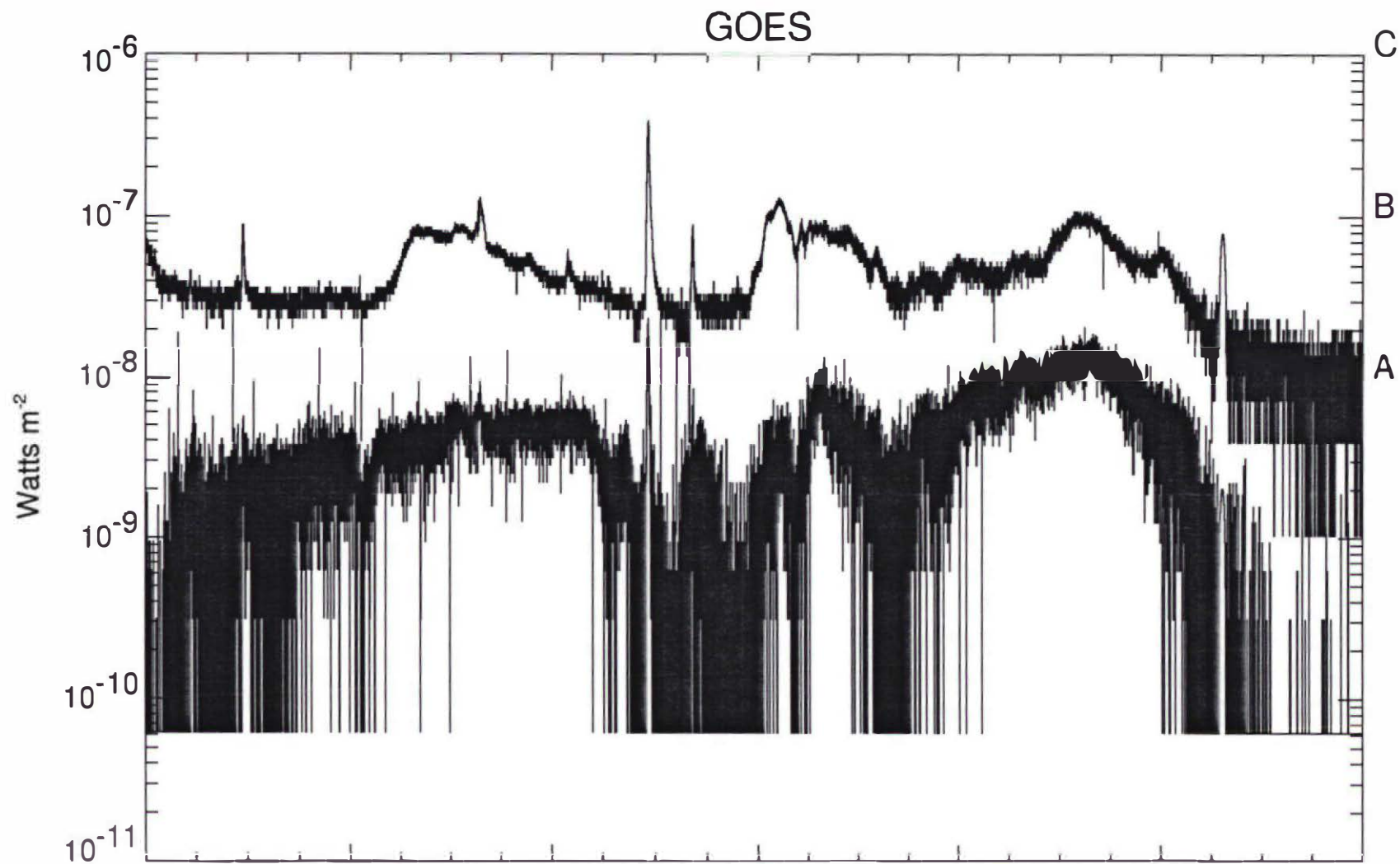
64522.929

25 - 100 keV

COUNTS/1.024 S



18 / 7 / 95



Data Start: 95/07/18, 0000:00

Plot created: 95/07/20, 0529

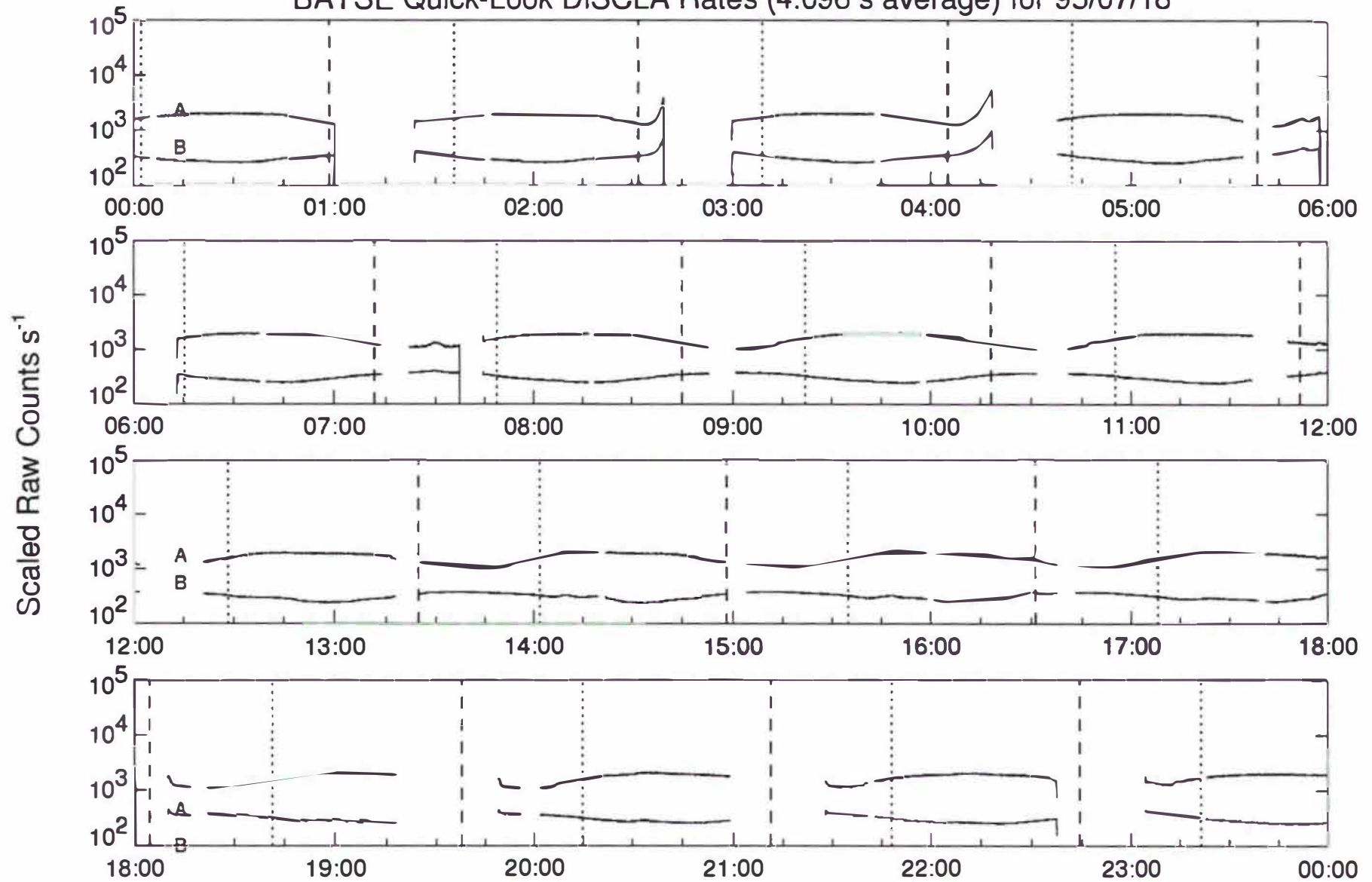
Channel 1 (1.0 - 8.0 Angstroms)

Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms)

Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/18



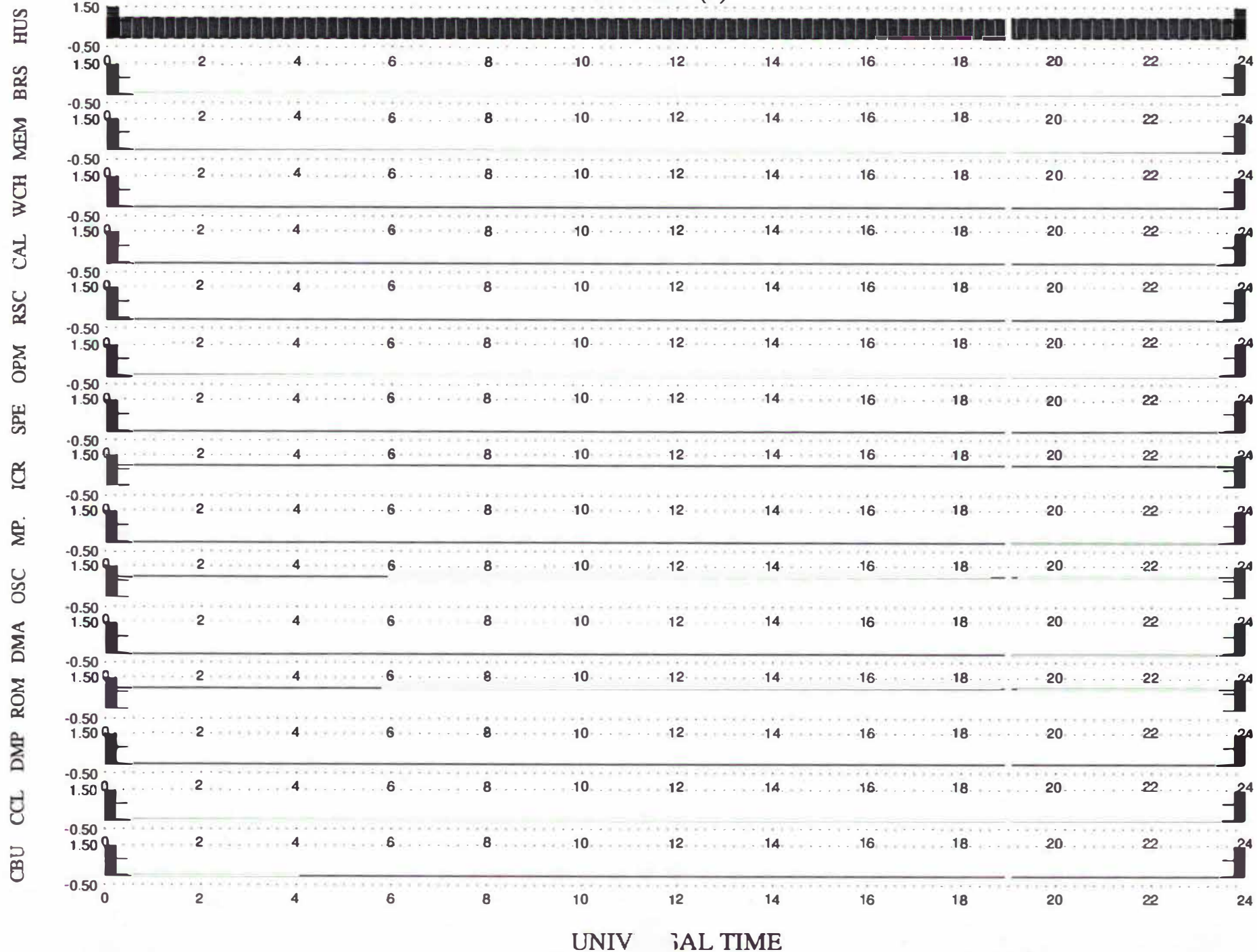
Current Time: 95/07/20, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

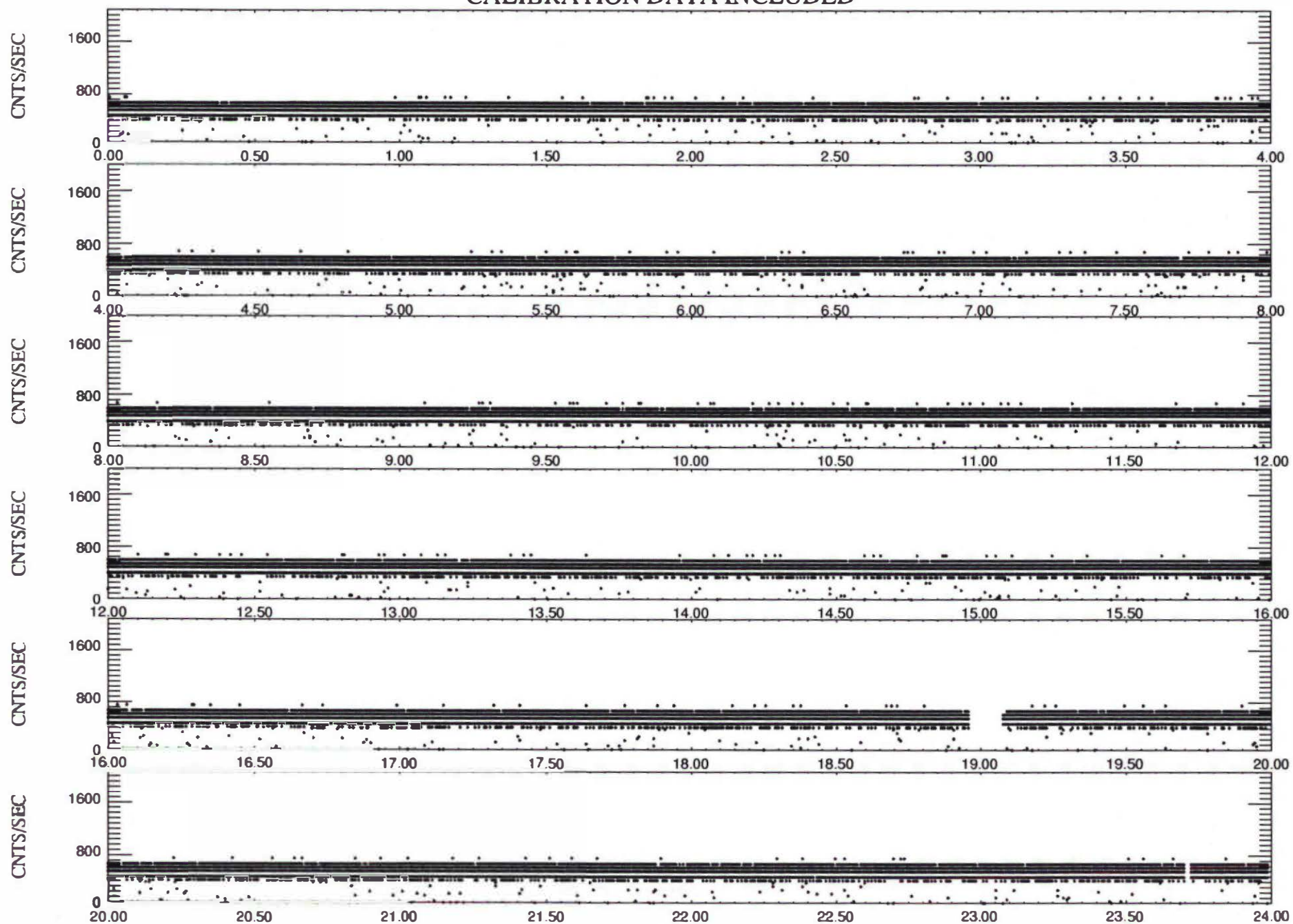
HUS MODES EDR day 199, year 1995 to day 199, year 1995
NO BURST (7)

1/25/96

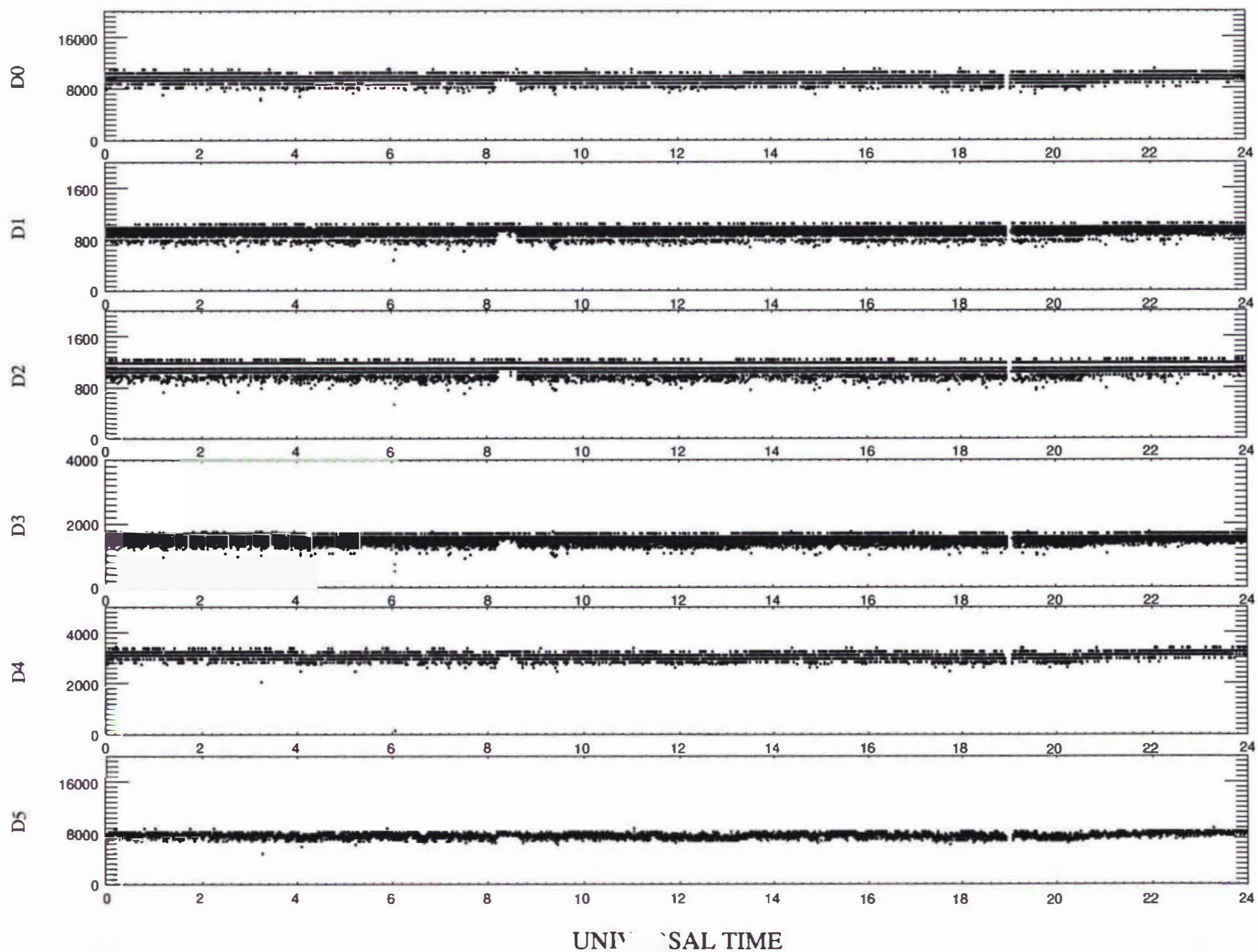


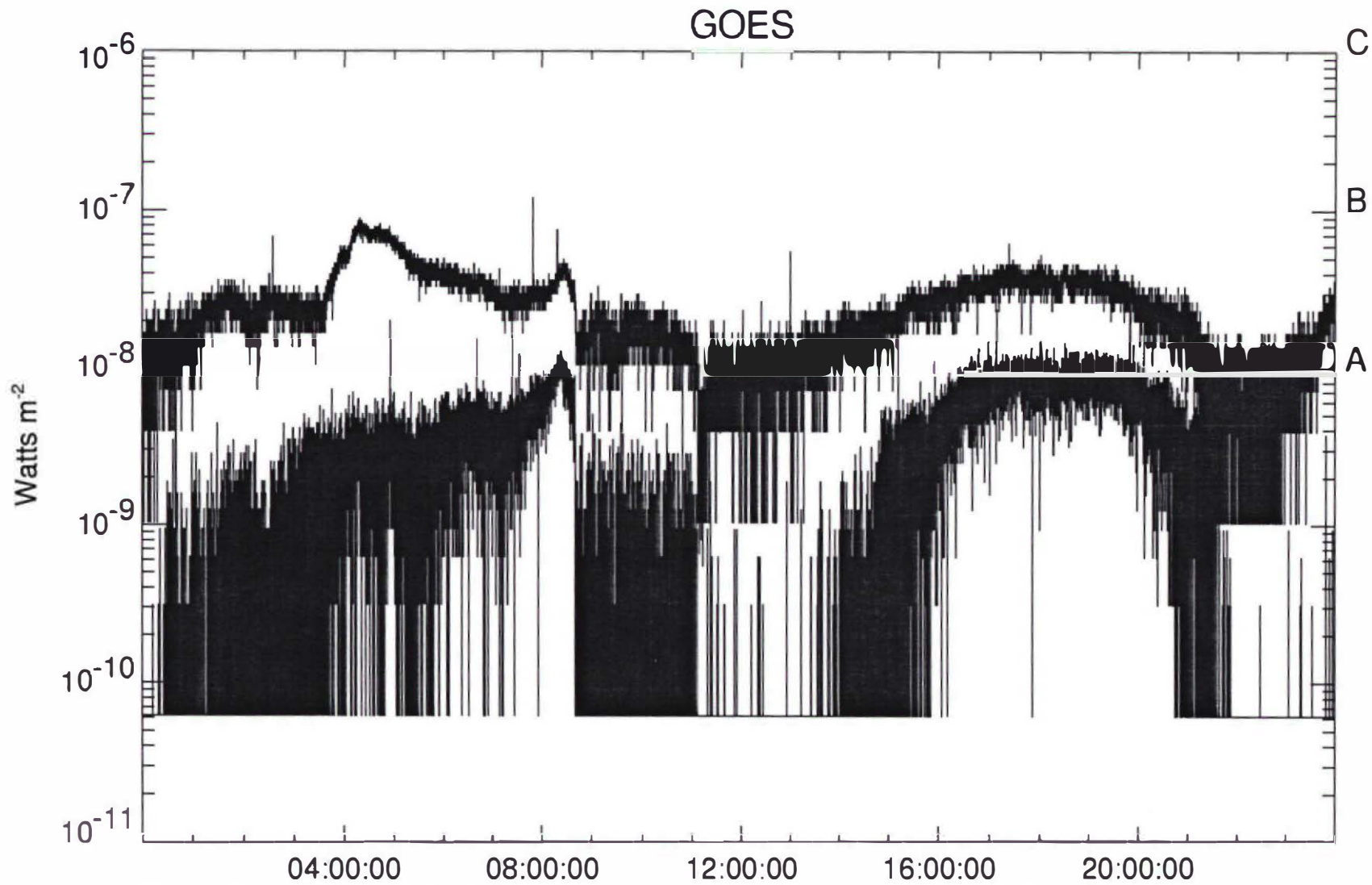
HUS 2A, MODE 1, NOT AVERAGED EDR day 199, year 1995 to day 199, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV TIME





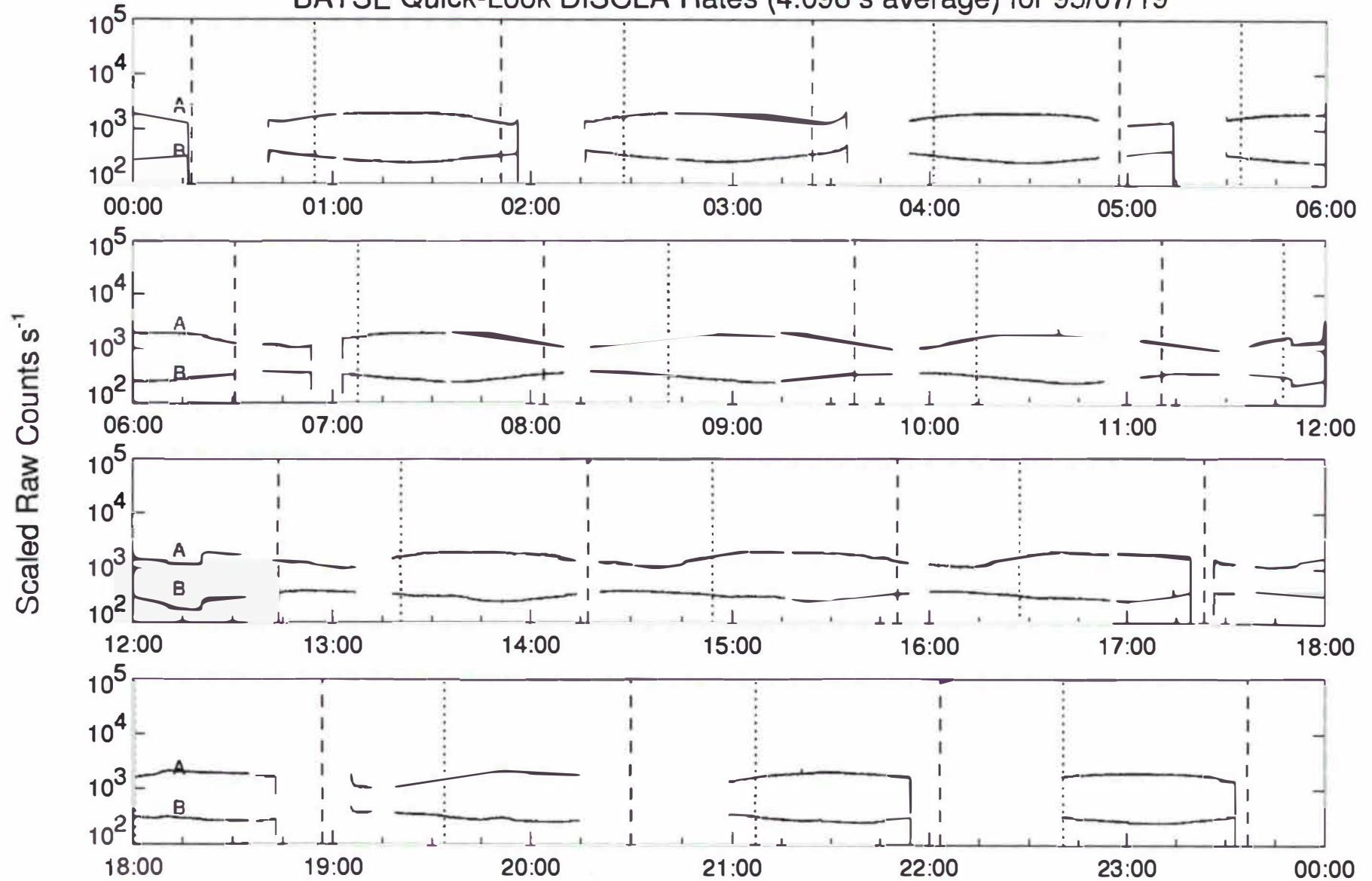
Data Start: 95/07/19, 0000:01

Plot created: 95/07/21, 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 95/07/19



Current Time: 95/07/21, 0529 EDT

A: Channel 0 Most Sunward LAD

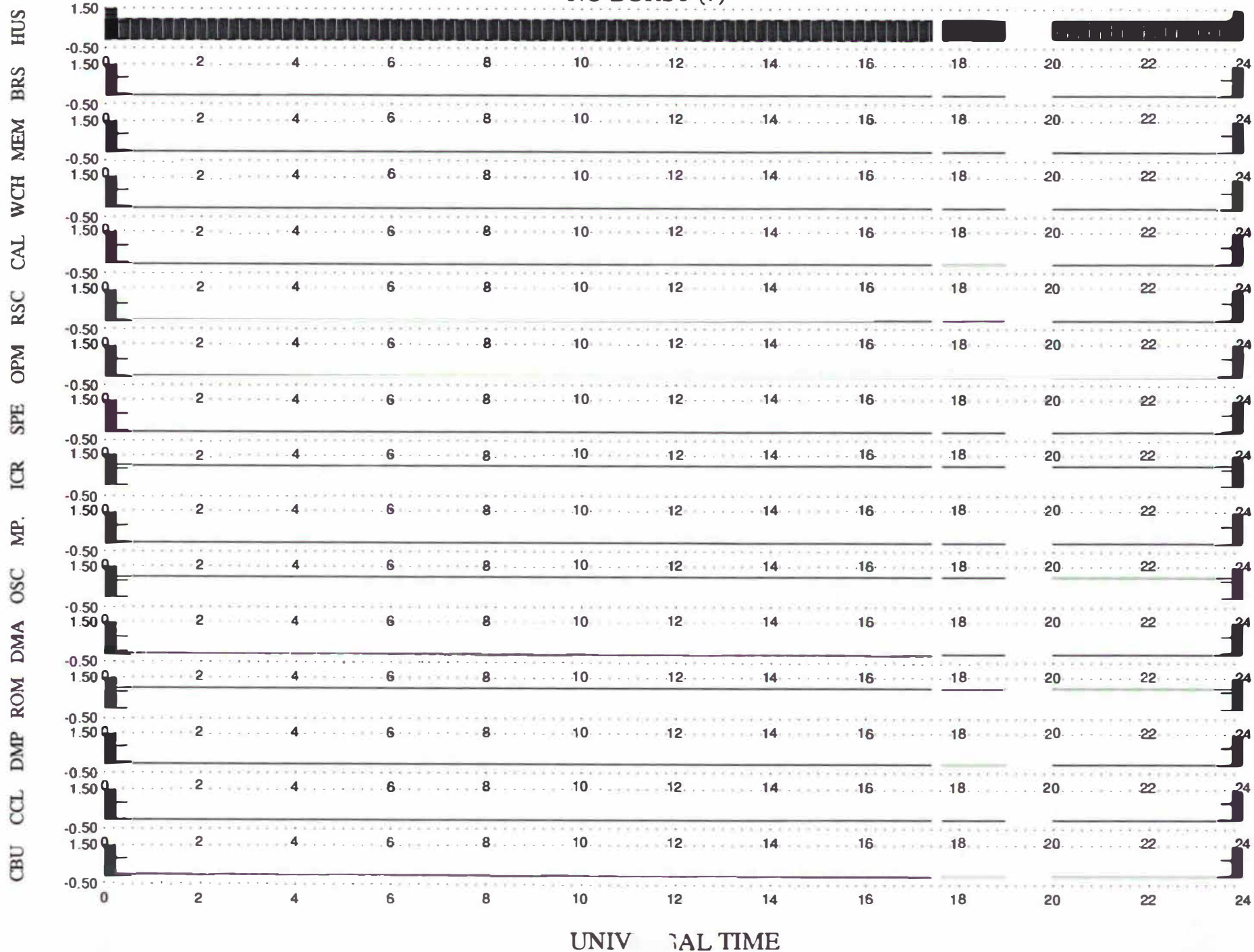
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

HUS MODES EDR day 200, year 1995 to day 200, year 1995 NO BURST (7)

1/25/96

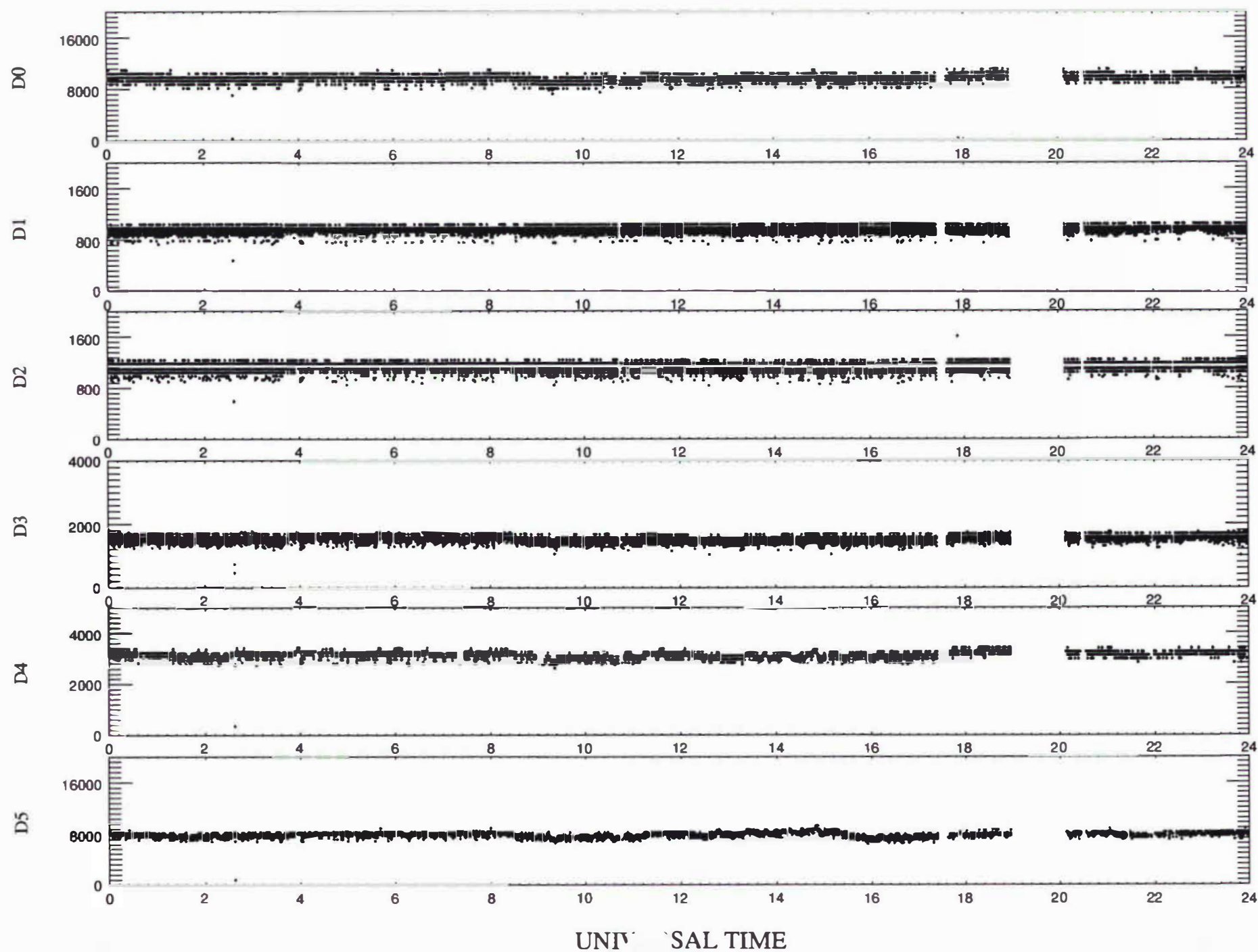


HUS 2A, MODE 1, NOT AVERAGED EDR day 200, year 1995 to day 200, year 1995
 CALIBRATION DATA INCLUDED

1/25/96



UNIV. CAL TIME



KONUS

ULYSSES RT

25 / 01 / 00

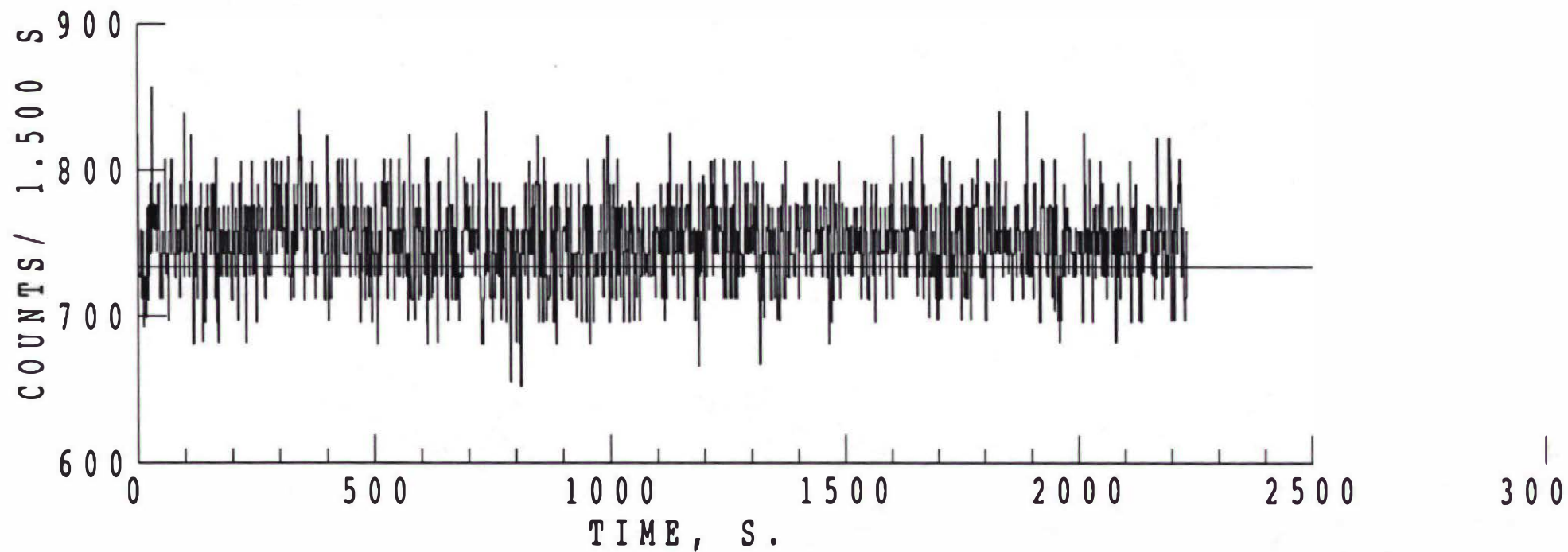
20 / 07 / 95 10116.156 s

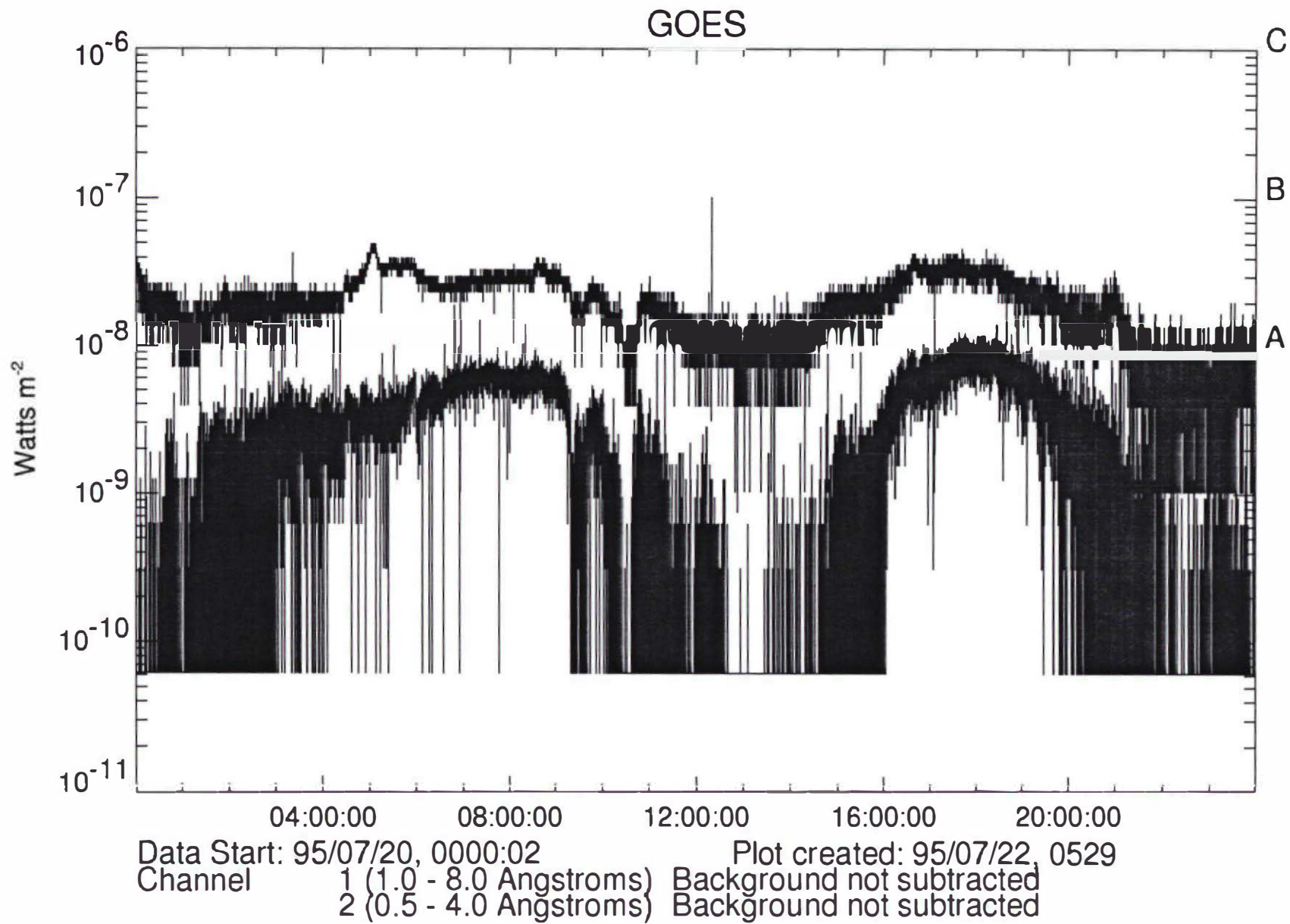
0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

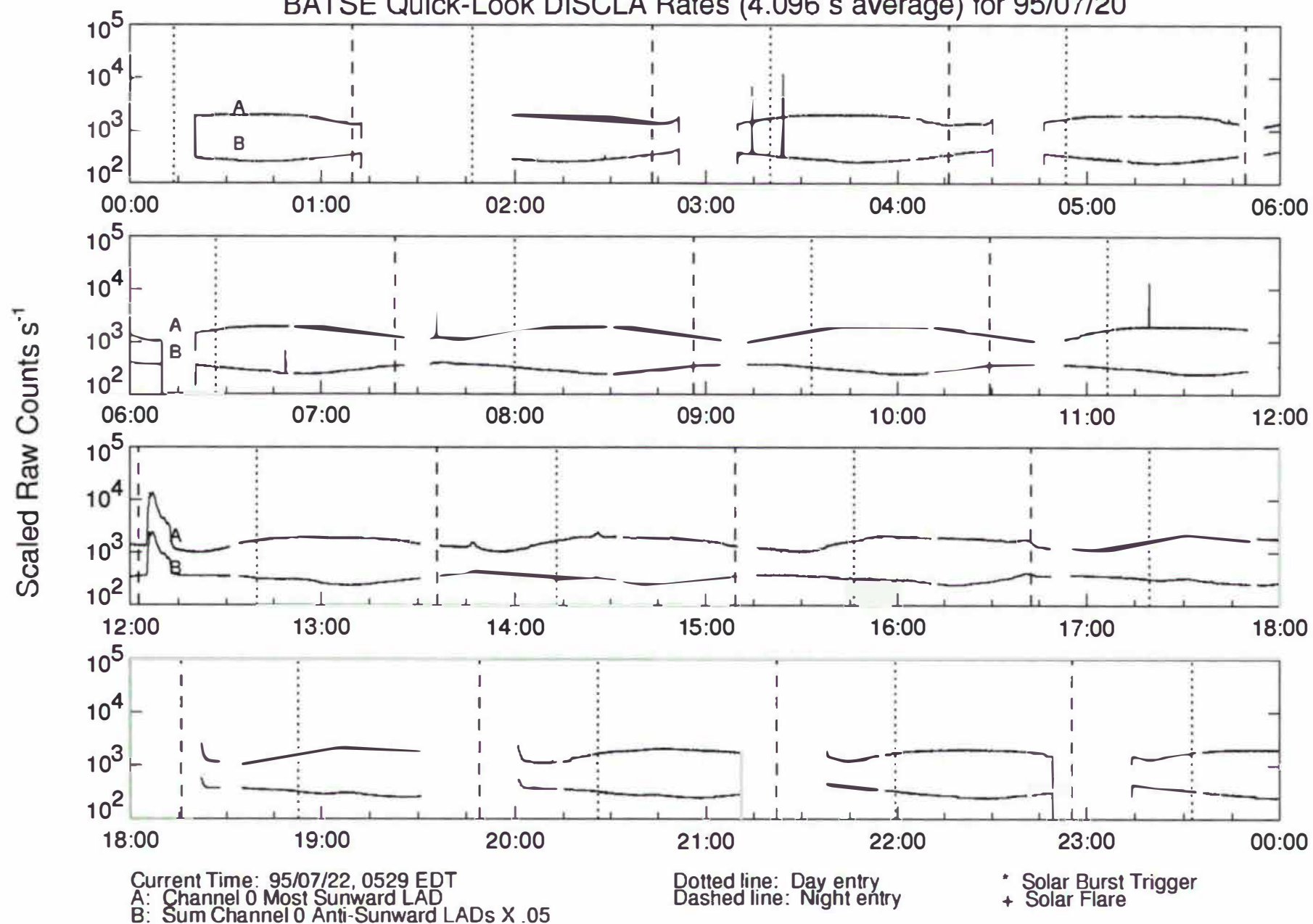
N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS

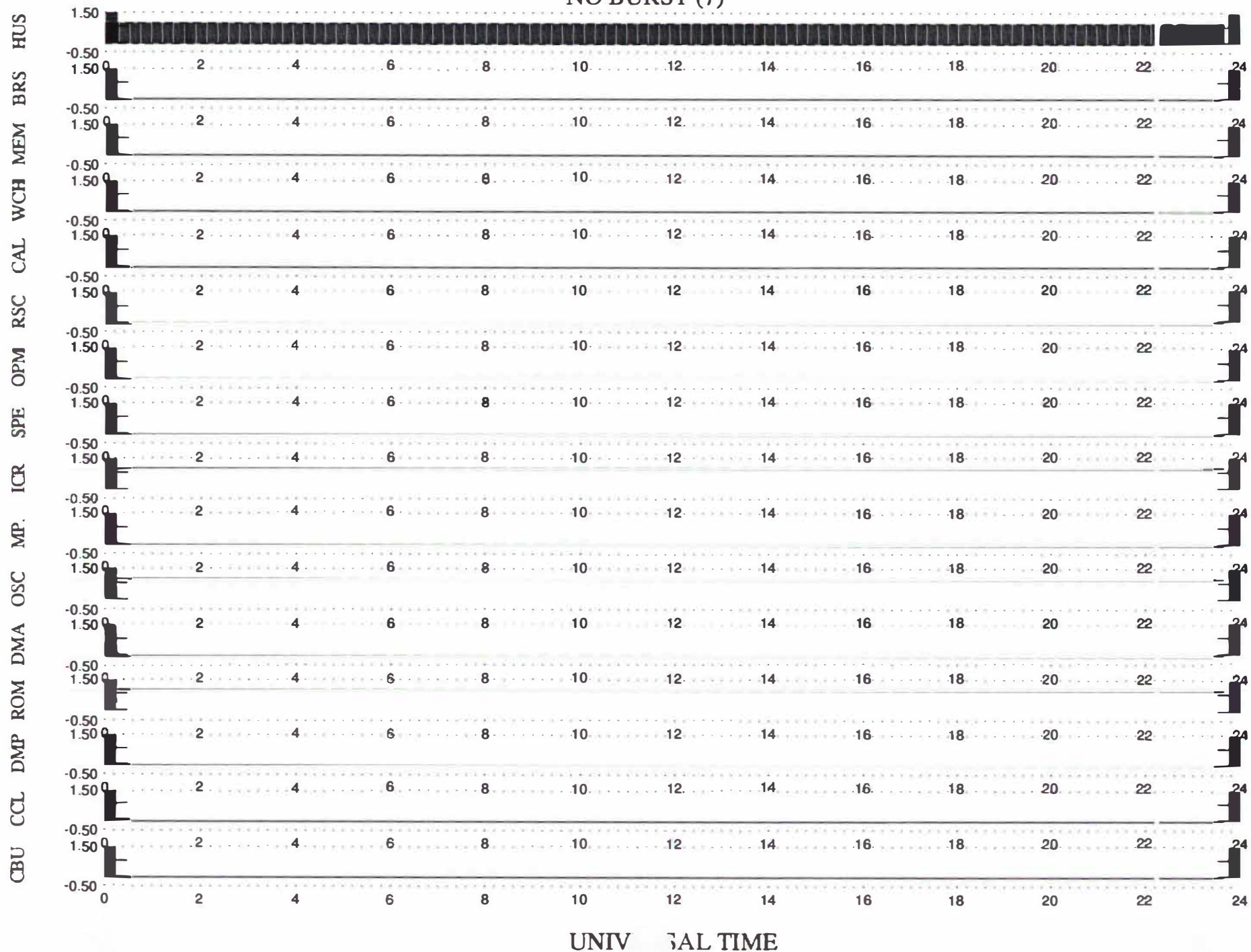




BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/20

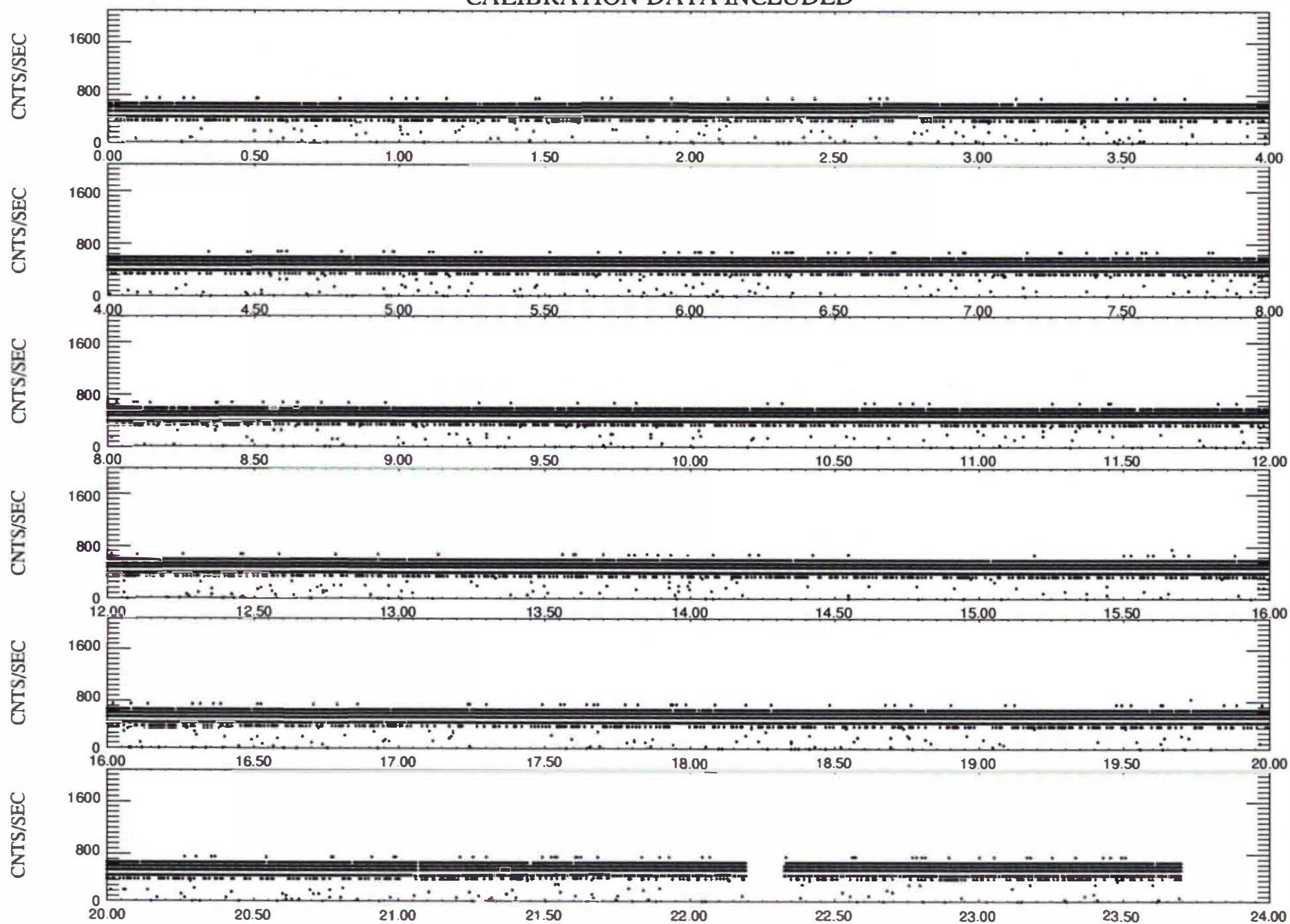


1/25/96

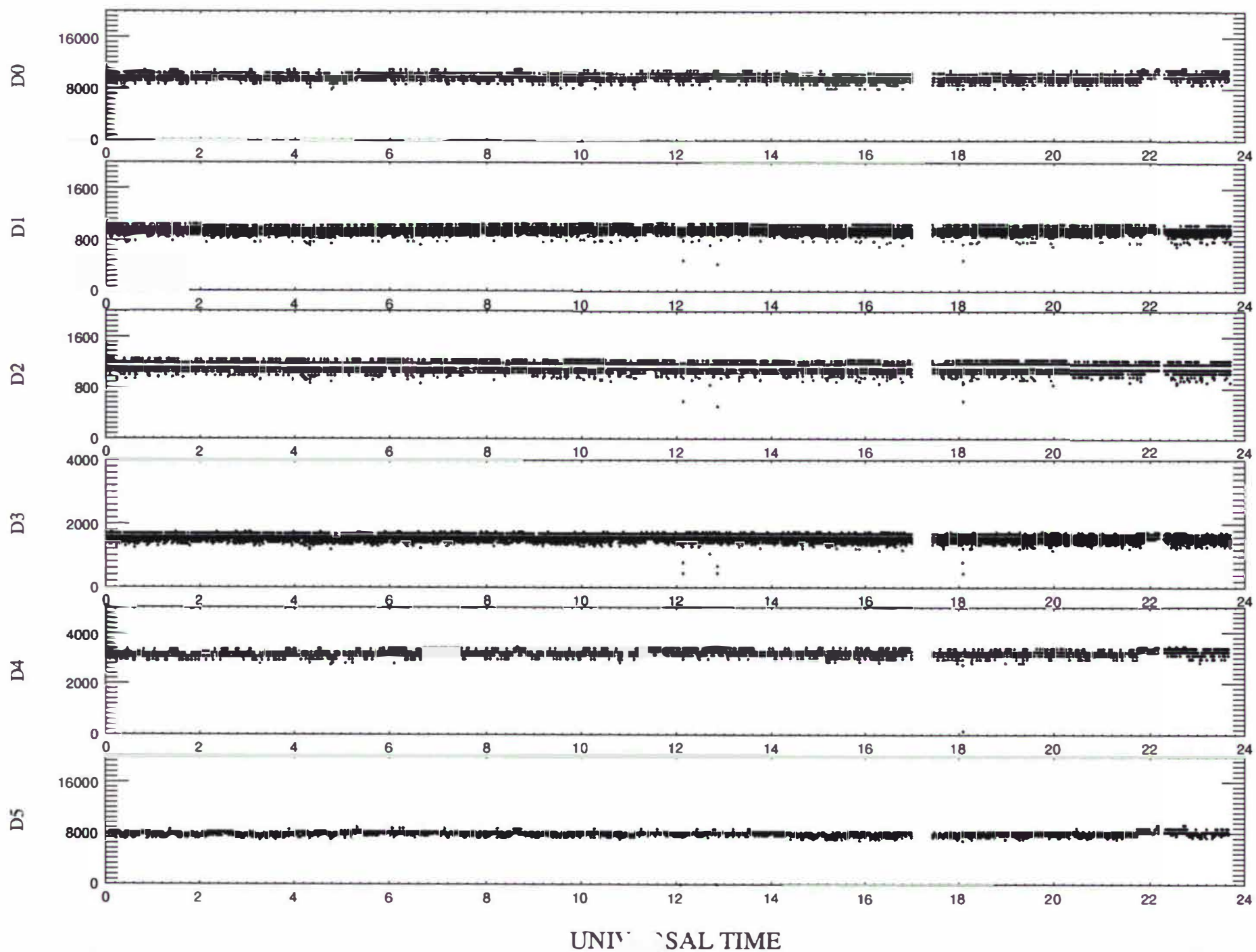


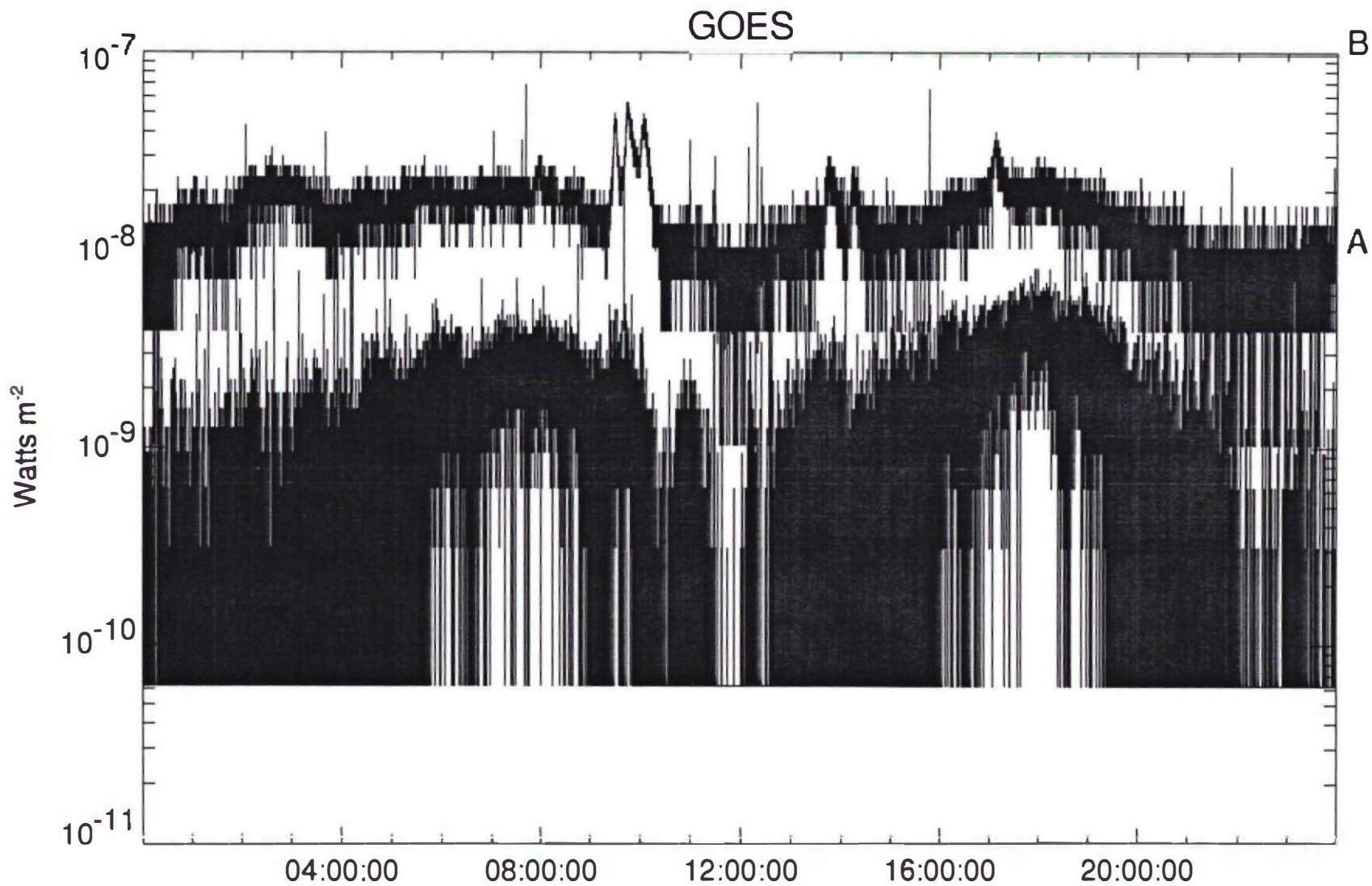
HUS 2A, MODE 1, NOT AVERAGED EDR day 201, year 1995 to day 201, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. CAL TIME





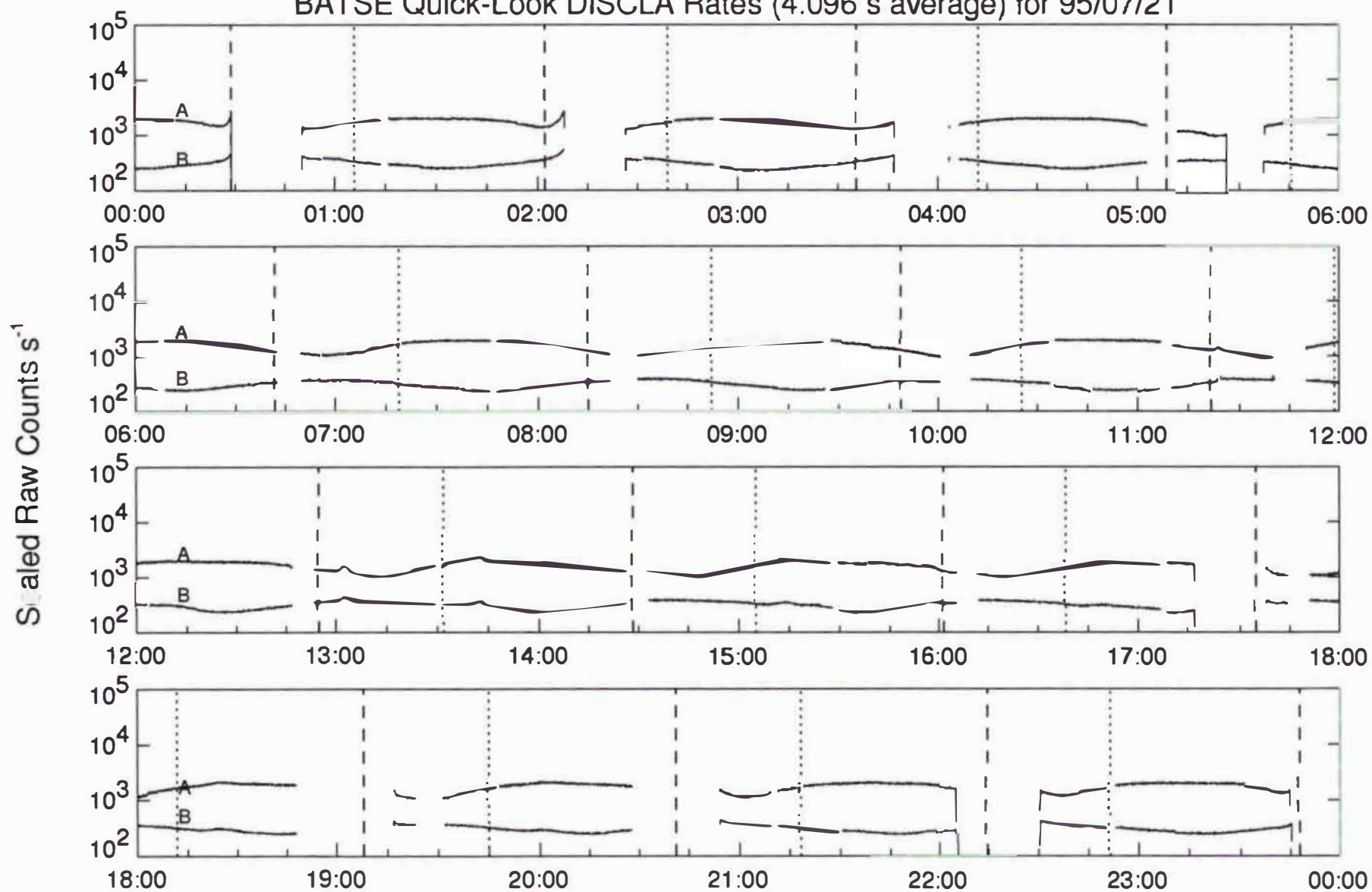
Data Start: 95/07/21, 0000:00

Plot created: 95/07/23, 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 95/07/21



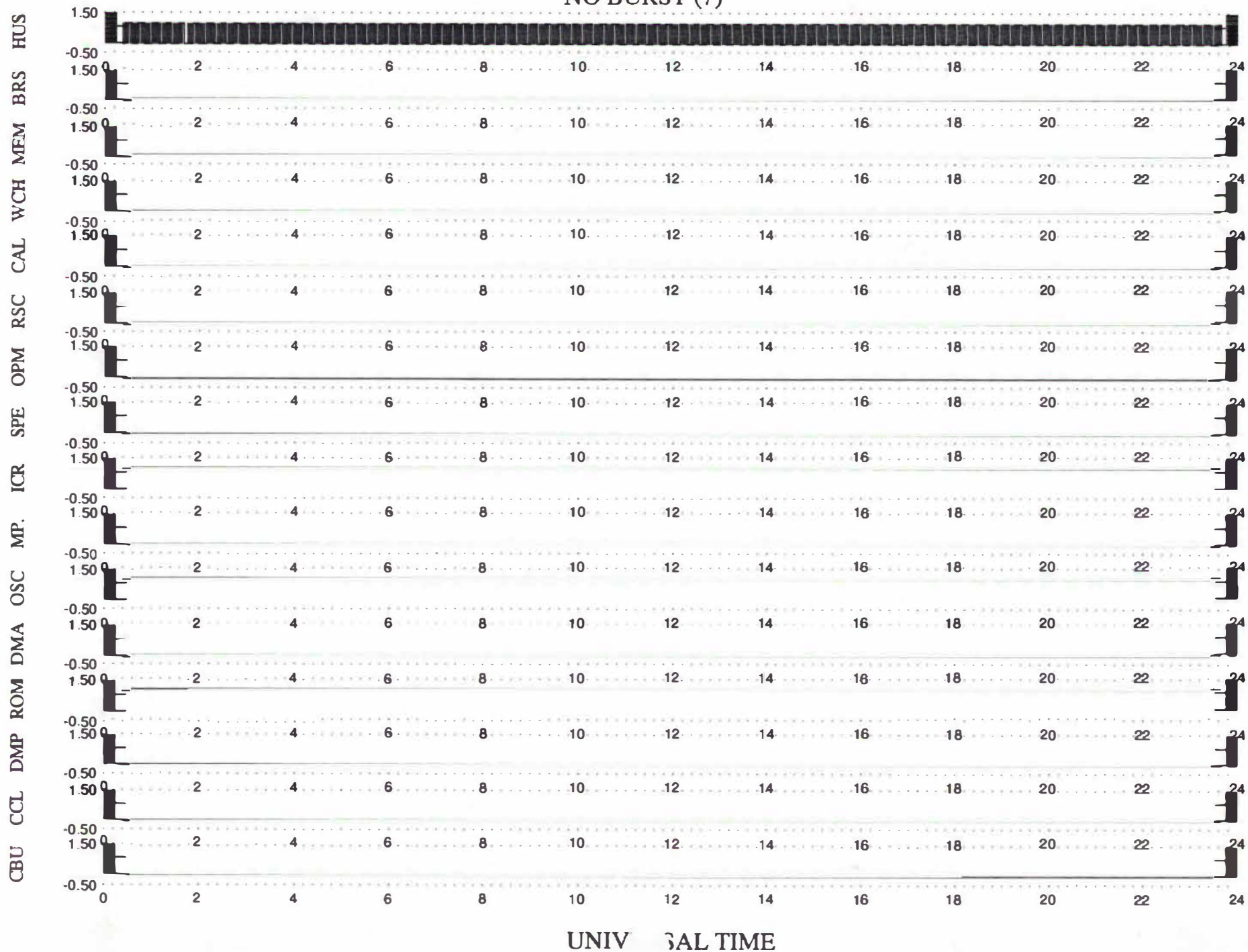
Current Time: 95/07/23, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

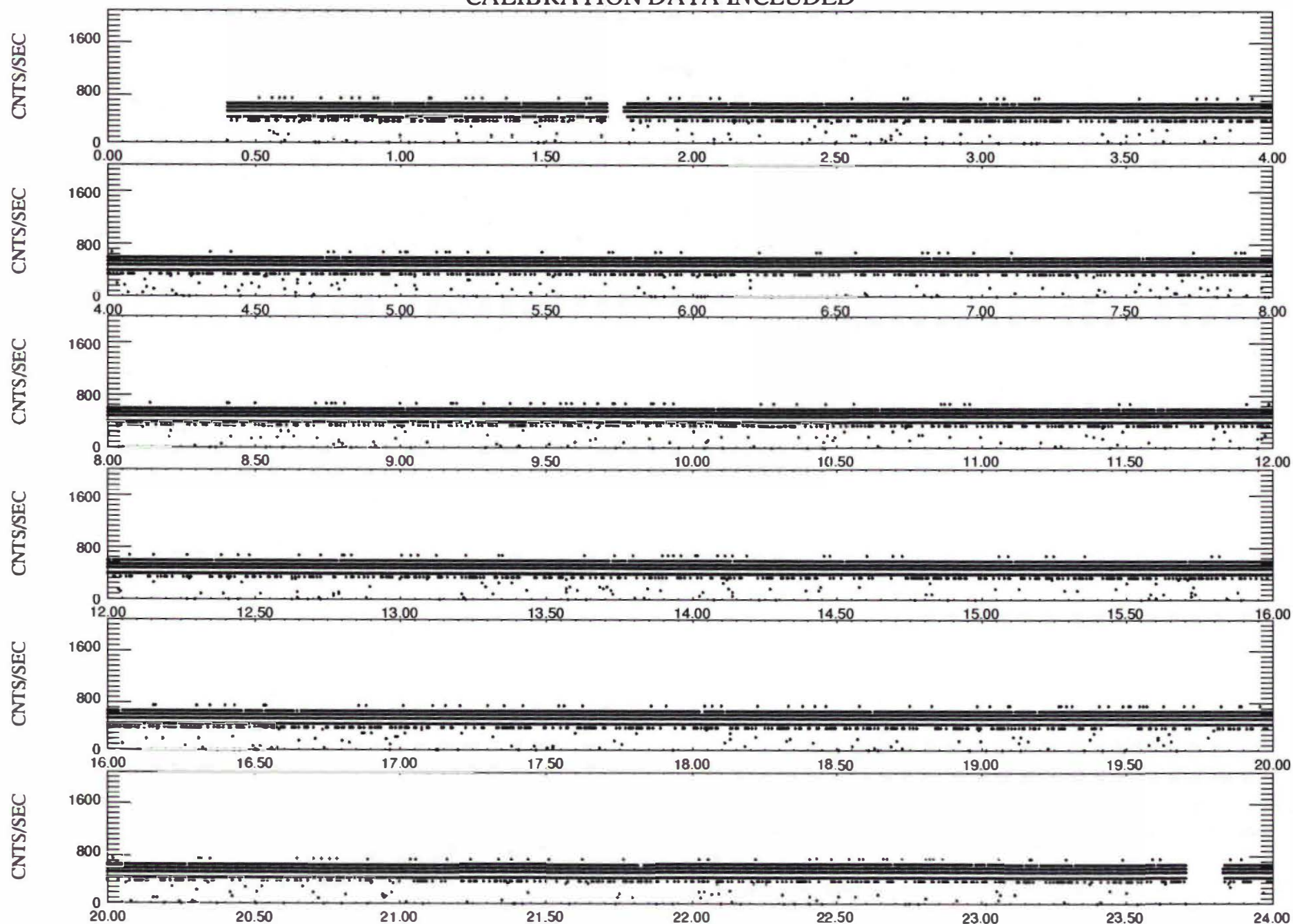
HUS MODES EDR day 202, year 1995 to day 202, year 1995 NO BURST (7)

1/25/96

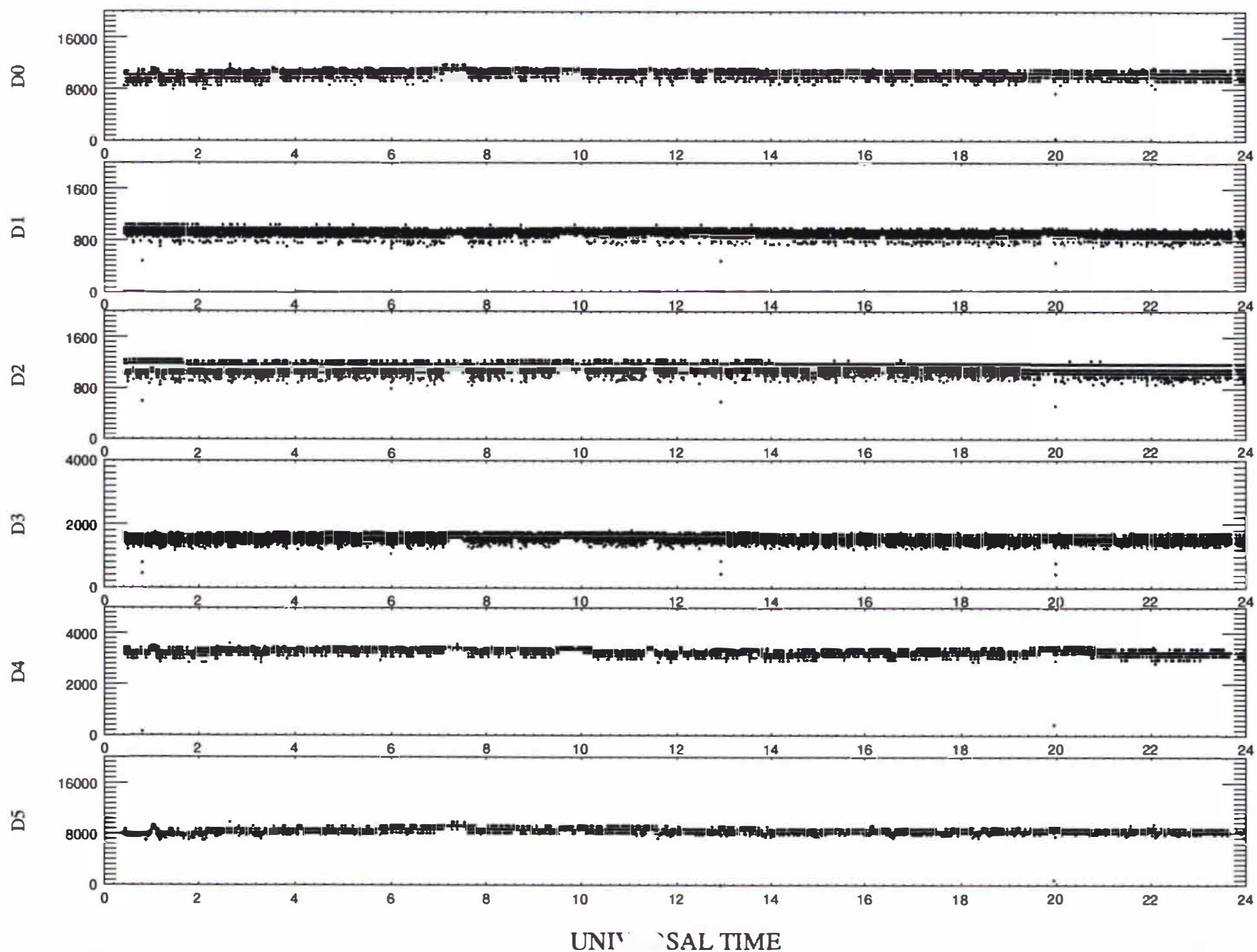


HUS 2A, MODE 1, NOT AVERAGED EDR day 202, year 1995 to day 202, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV 3AL TIME



From HENZE@fender.msfc.nasa.gov Mon Jul 24 12:37 PDT 1995
From: HENZE@fender.msfc.nasa.gov
Date: Mon, 24 Jul 1995 14:37:22 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03685

TIME: TJD=9920 SECONDS=52569

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

BATSE time corrected 10/02

Date: Jul 11 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. BATSE Data

- ☐ 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. NEAR Data

- ☐ Final, correct time used? (Files postmarked `vwx@boccl`, from from Teresa Sheets, postmarked May 2 1999 or later have the correct time; files on website have incorrect times)
- ☐ BATSE >100 keV data used for NEAR correlation?

- ☒ ACCESS database updated?

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

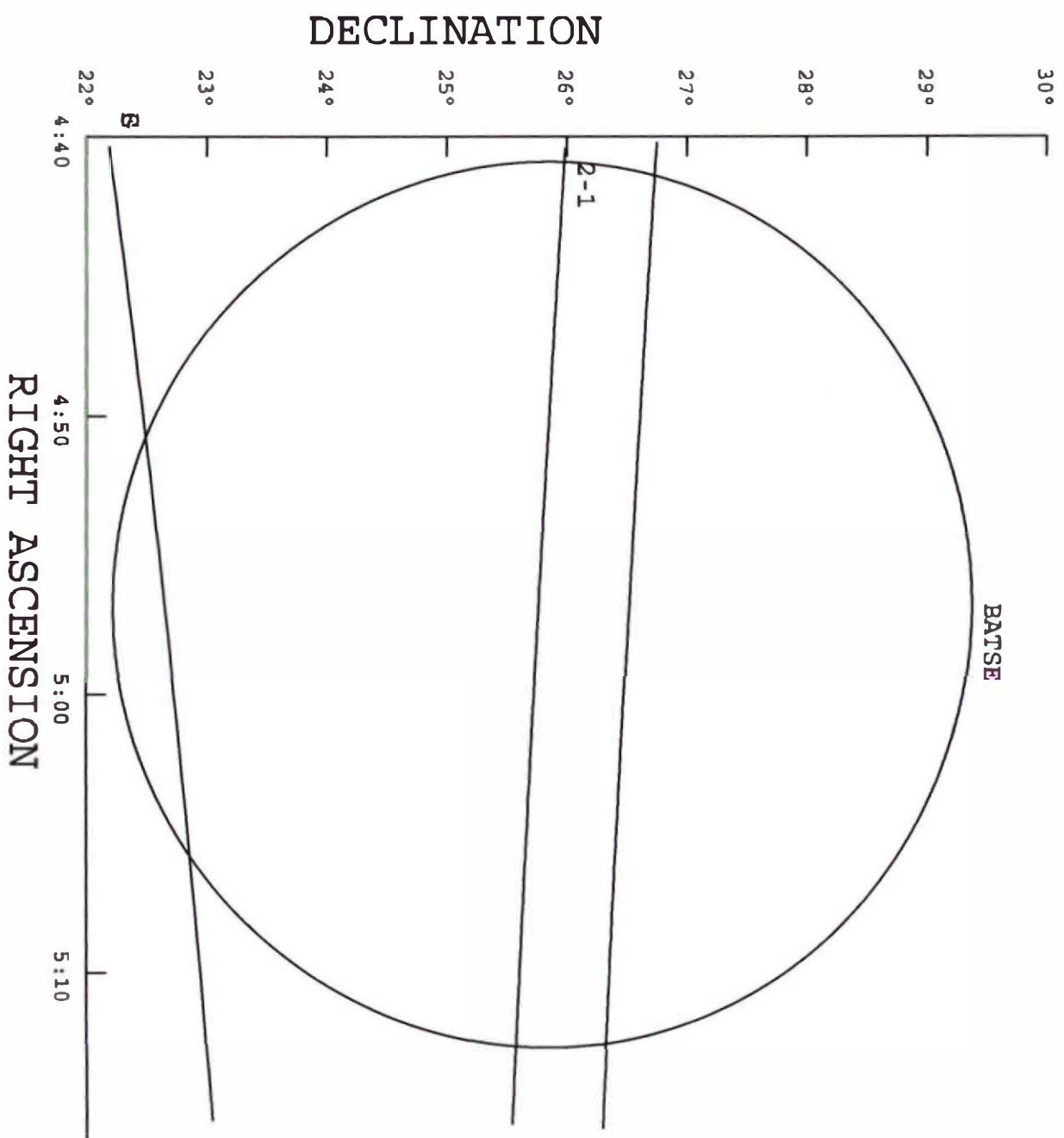
G=GALACTIC EQUATOR

1 BATSE

2 ULYSSES

EVENT OF JUL 22, 1995 17:48

11/ 7/ 2



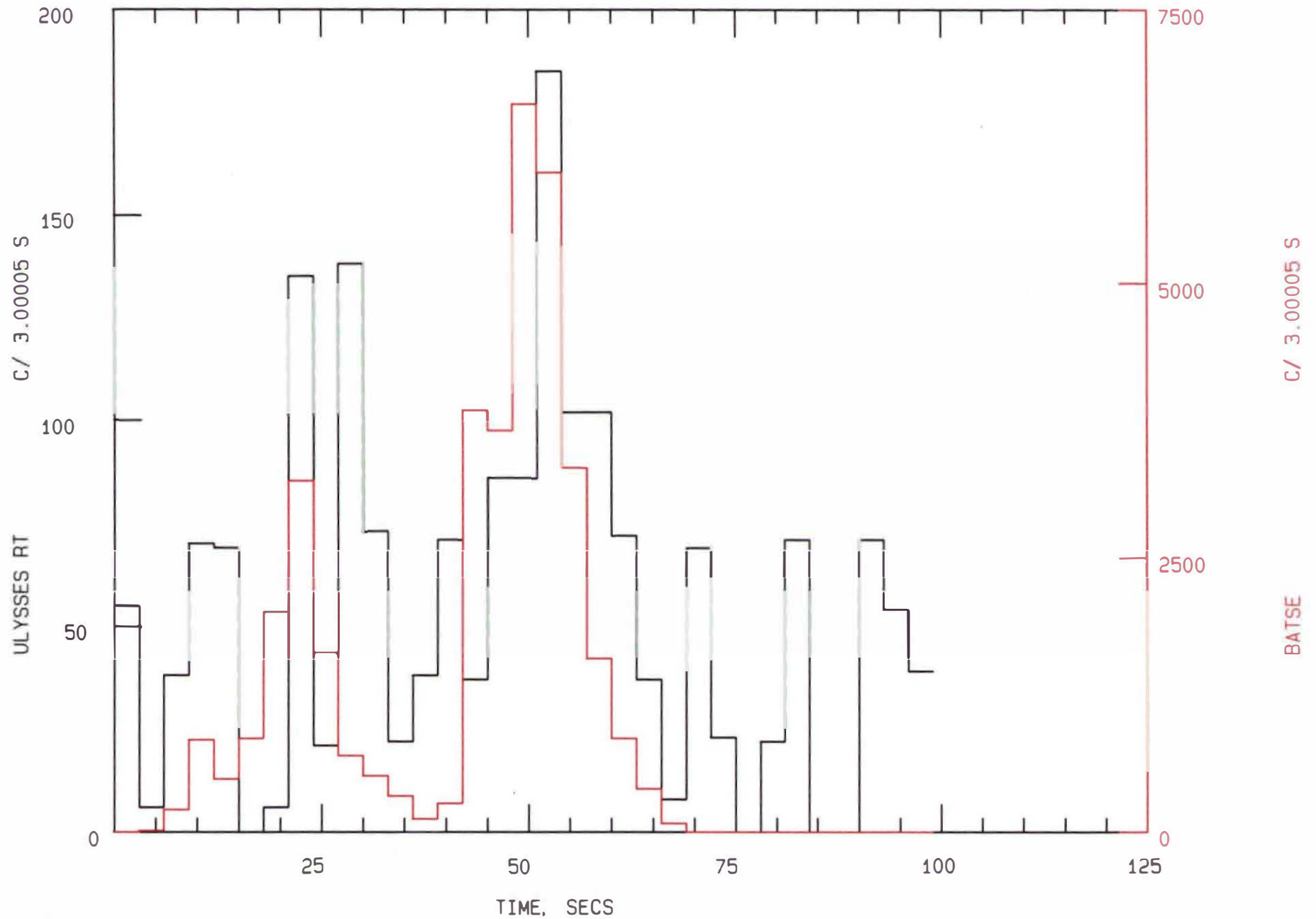
ULYSSES RT-BATSE

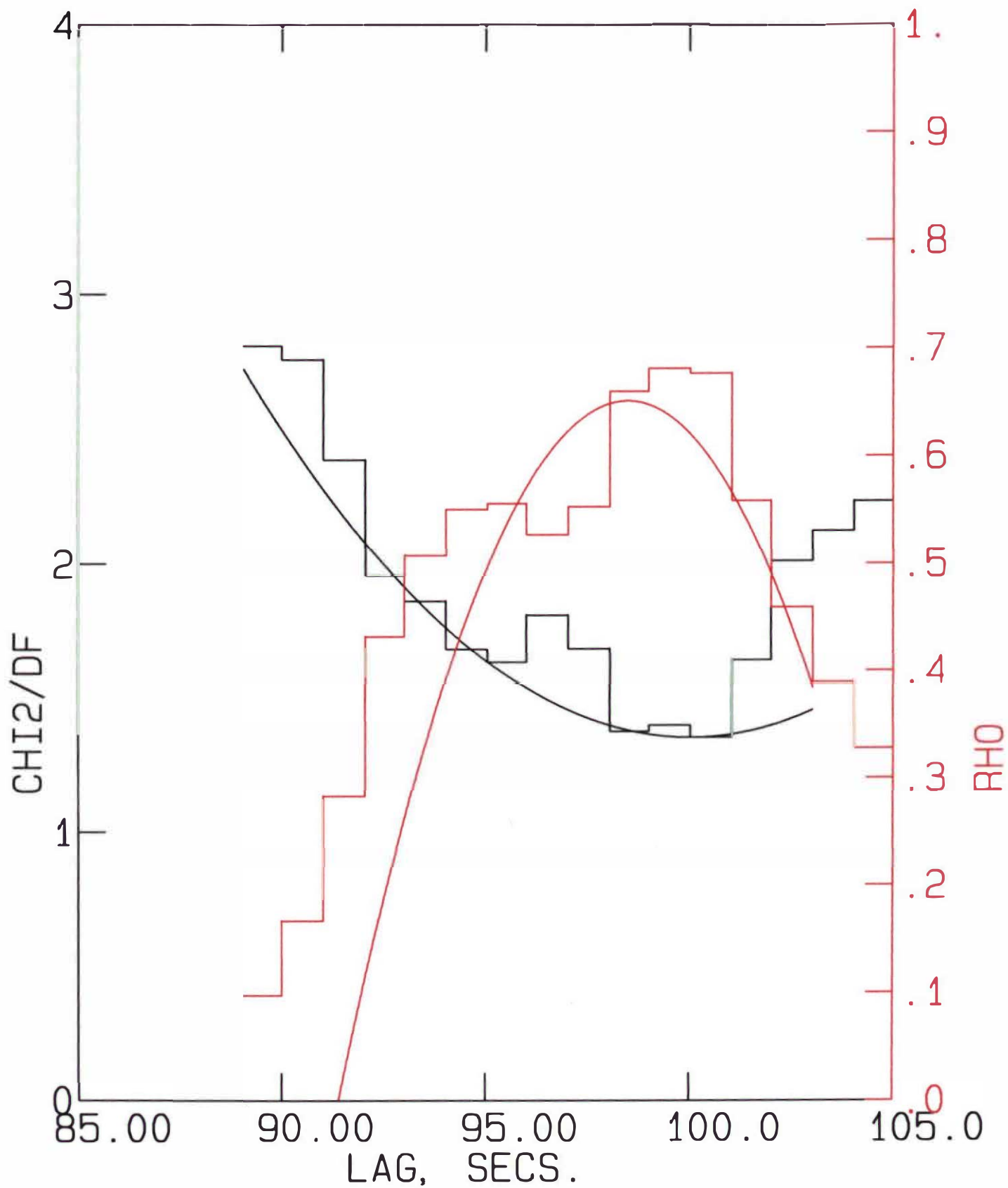
CORRELATION

22/ 7/95

63540.004

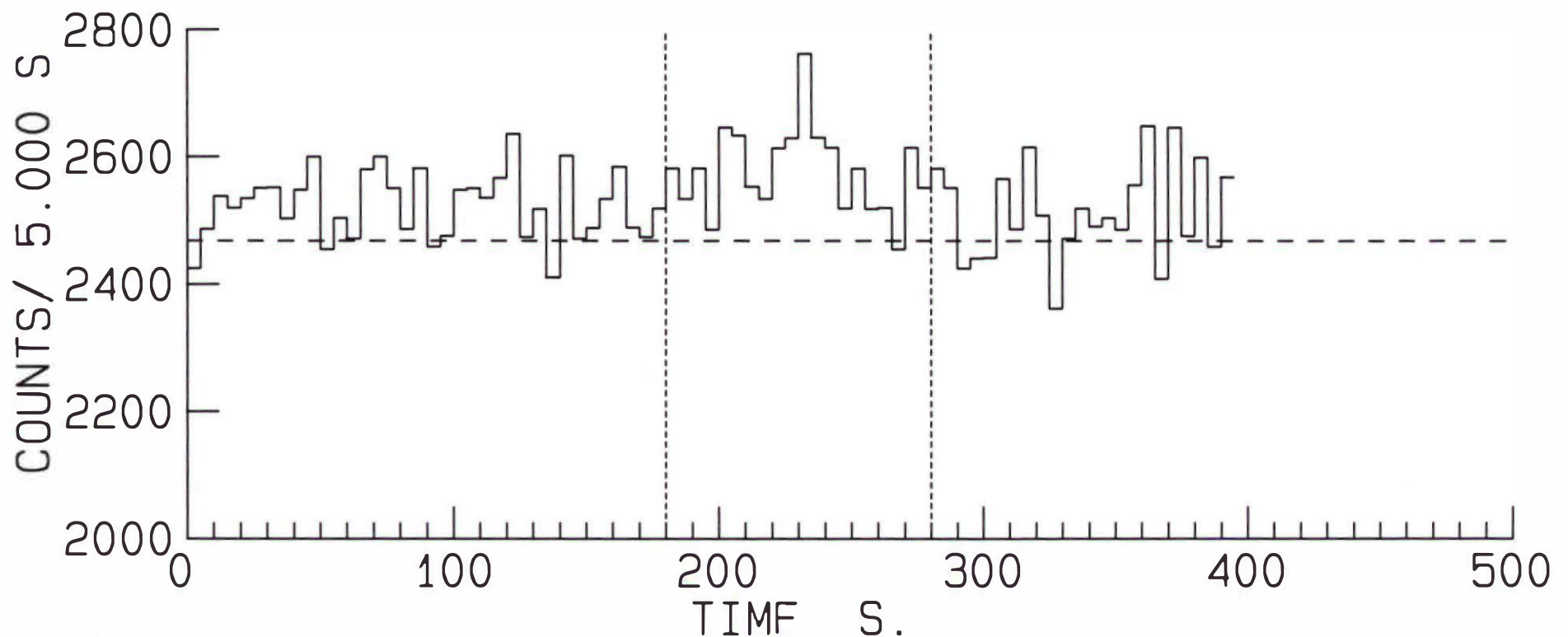
11/ 7/ 2





ULYSSES RT
22/ 7/95 63360.246 s
0.250 S INTERVALS REGROUPED BY 20
21- 142 keV

11 / 7 / 2



Date: Aug 30 2011

BURST TRIANGULATION CHECKLIST

I. Ulysses Data

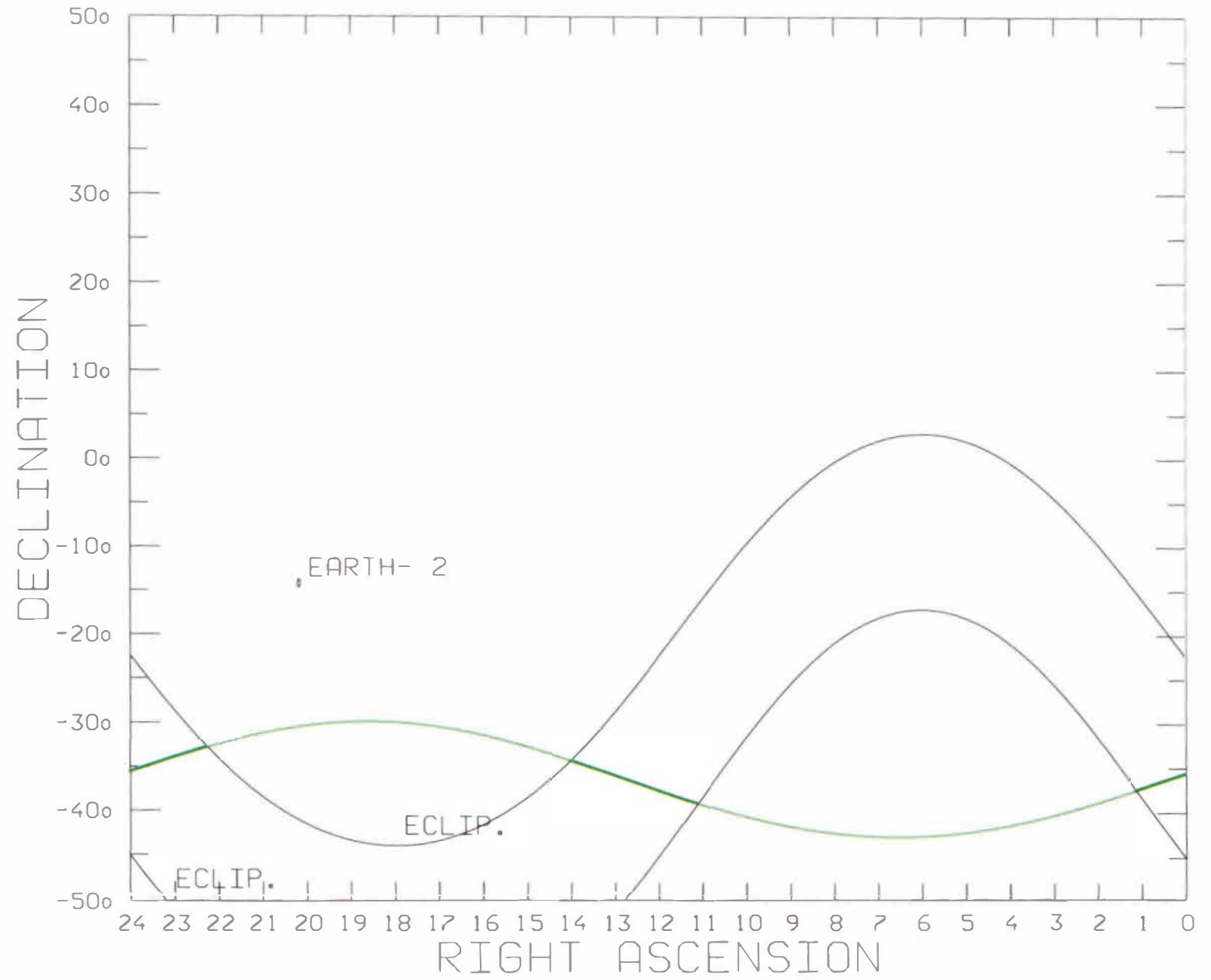
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

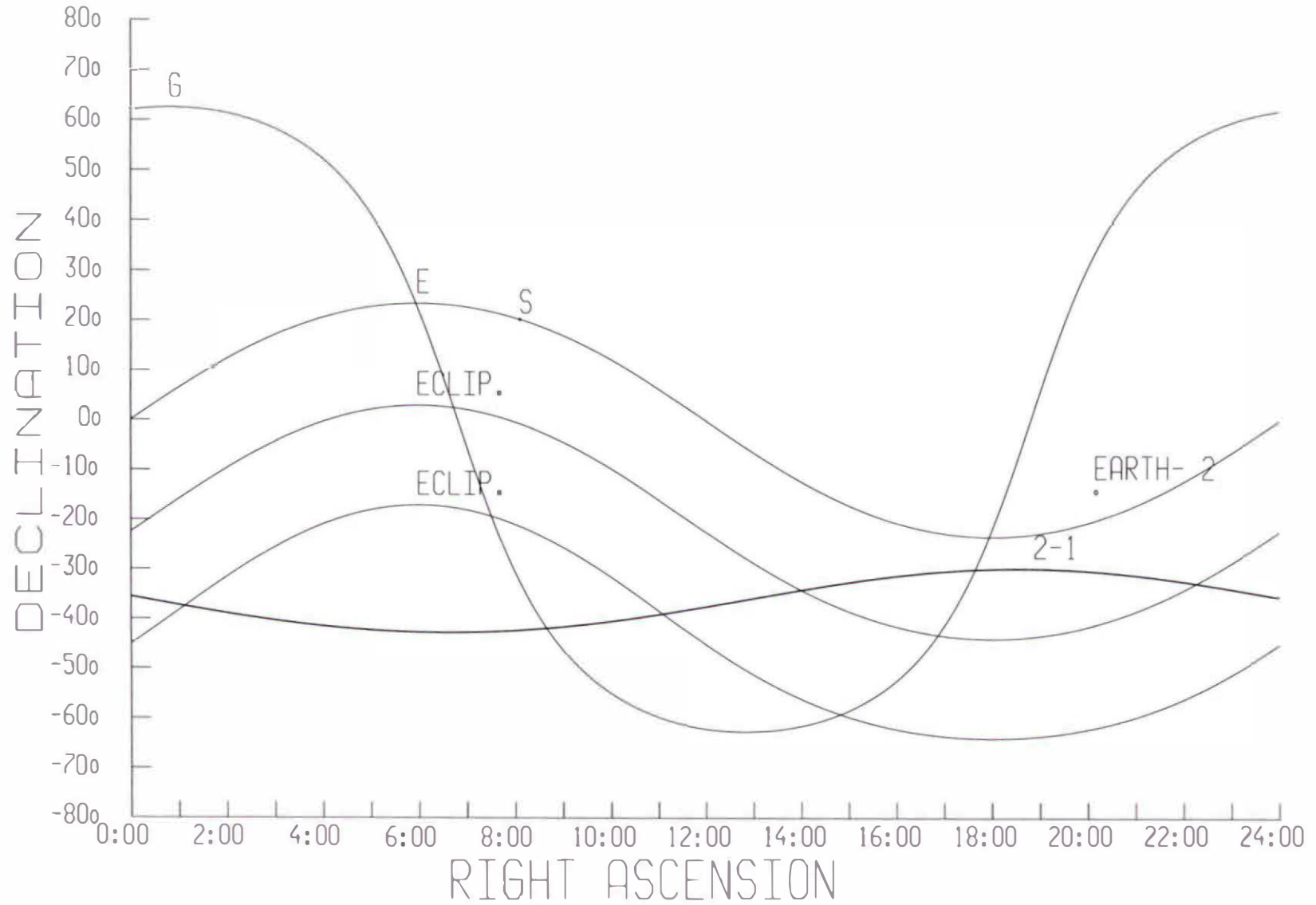
- ☐ Ephemeris of PVO used (not Venus)?
 - ☐ 2000 coordinates used?
 - ☐ Geocentric time used?
-
- ☒ ACCESS and MBL databases updated with identical times?

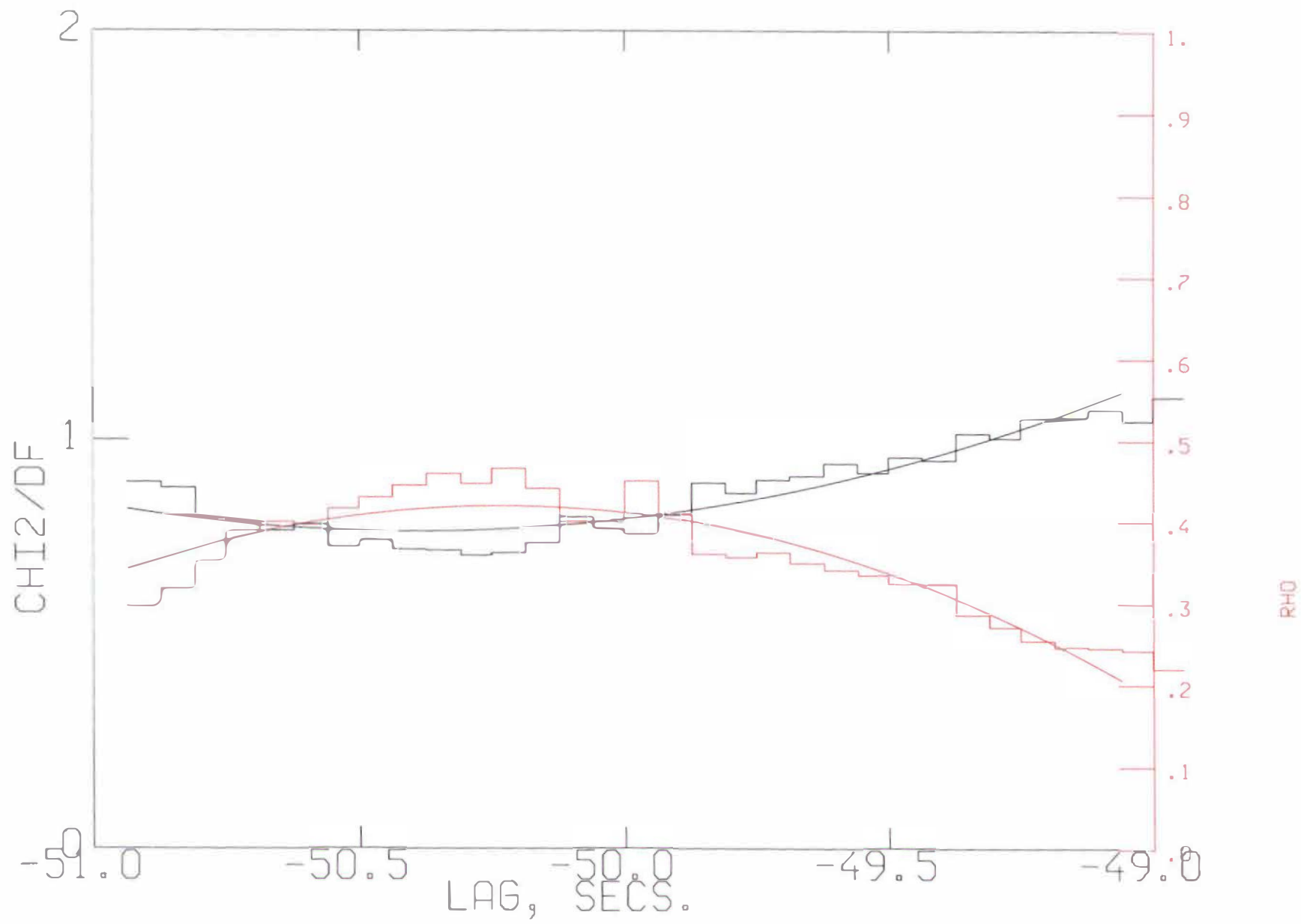


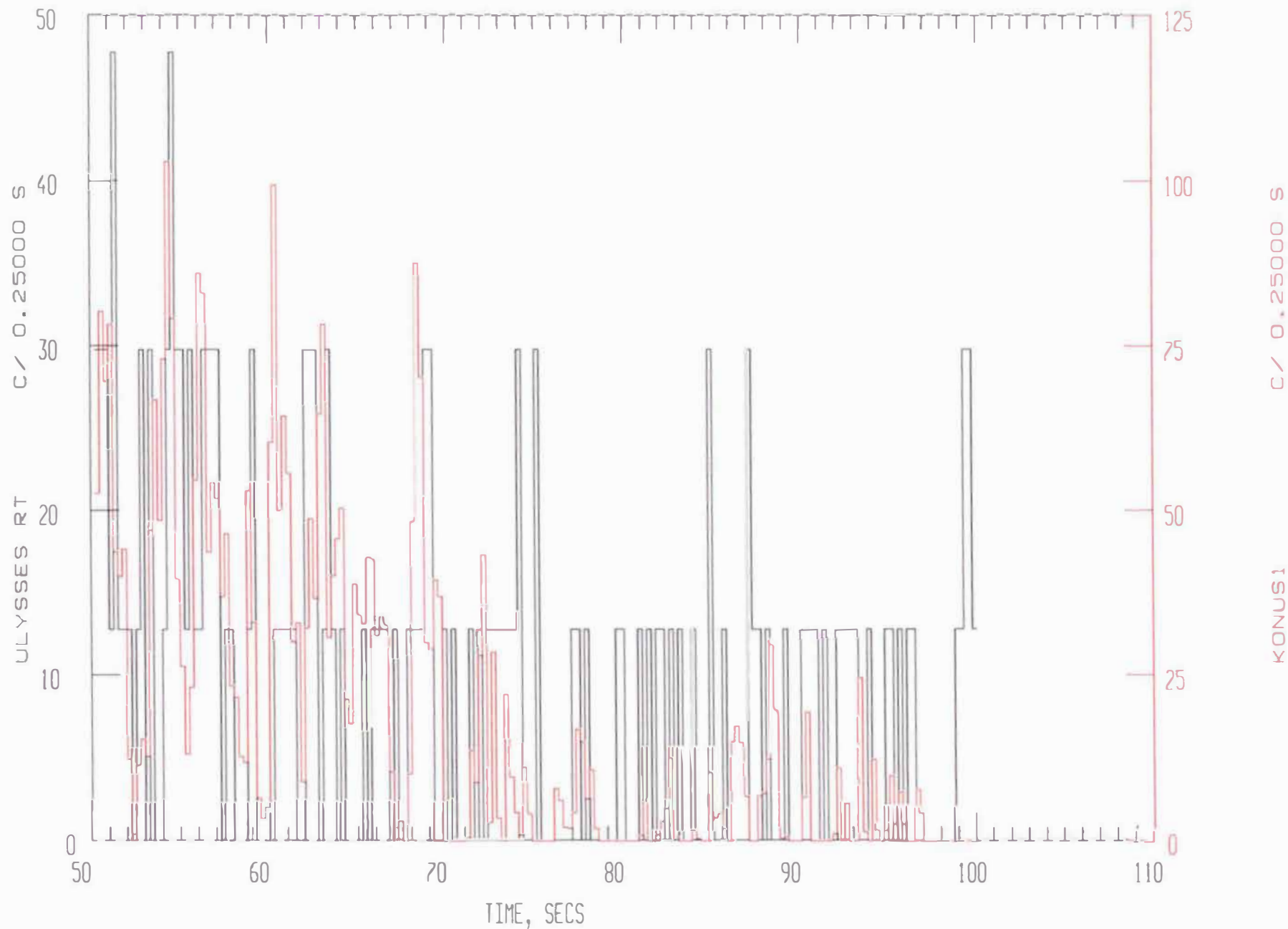
EVENT OF JUL 22, 1995 21:02

30/08/2011

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 19950722 75796

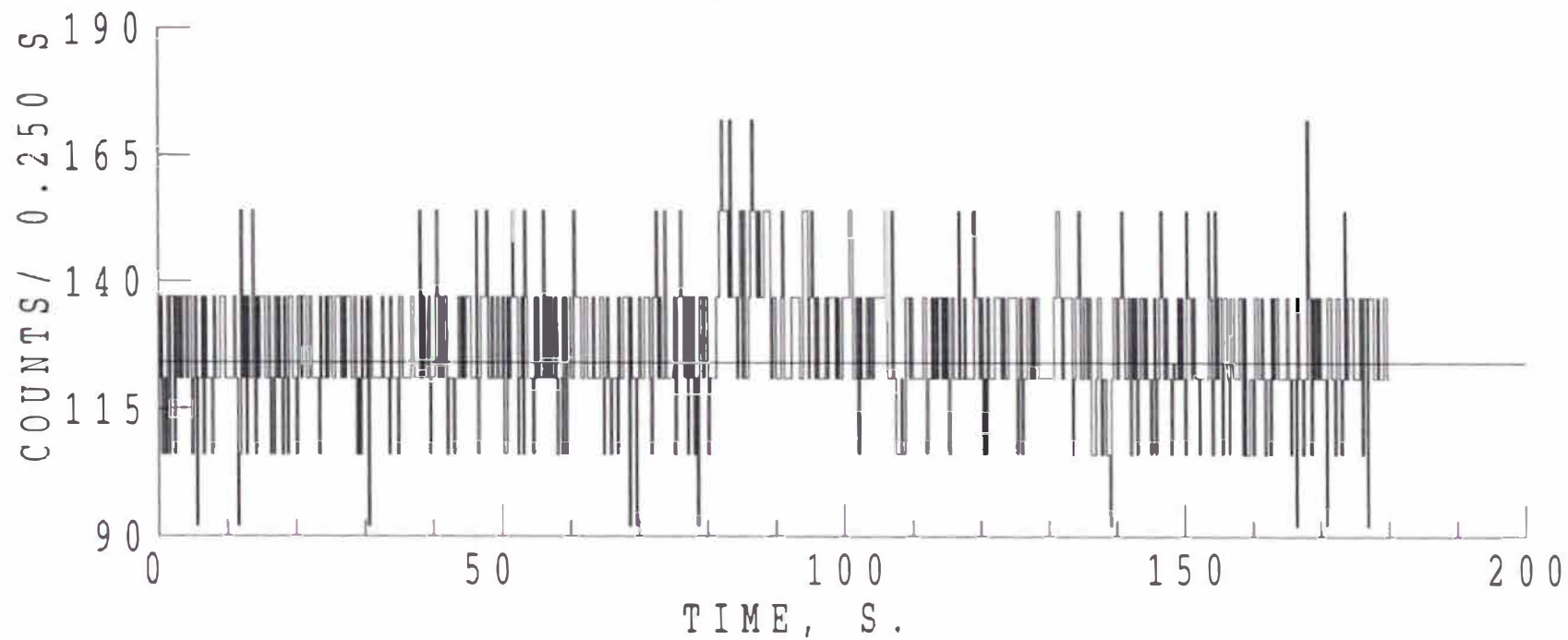
ULYSSES RT

27/08/11

22/07/95 75708.219 s

0 - 0 keV

N= 18 N= 2
>4.0 SIGMA FLUCTUATIONS



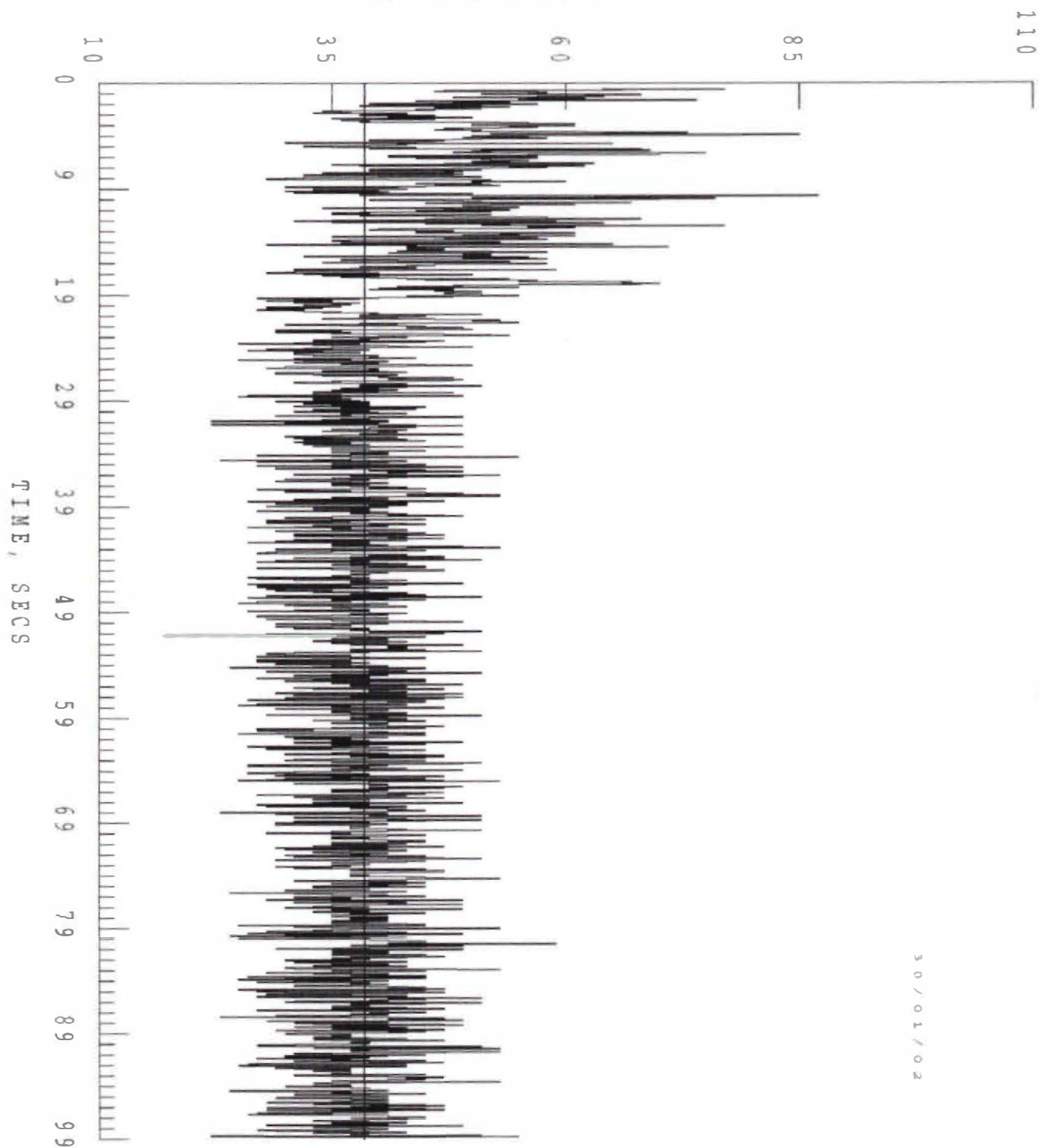
KONUS1

22/07/95

75147.472

50 - 200 keV

COUNTS/0.064 S



KONUS1 19950722 75147

ULYSSES RT

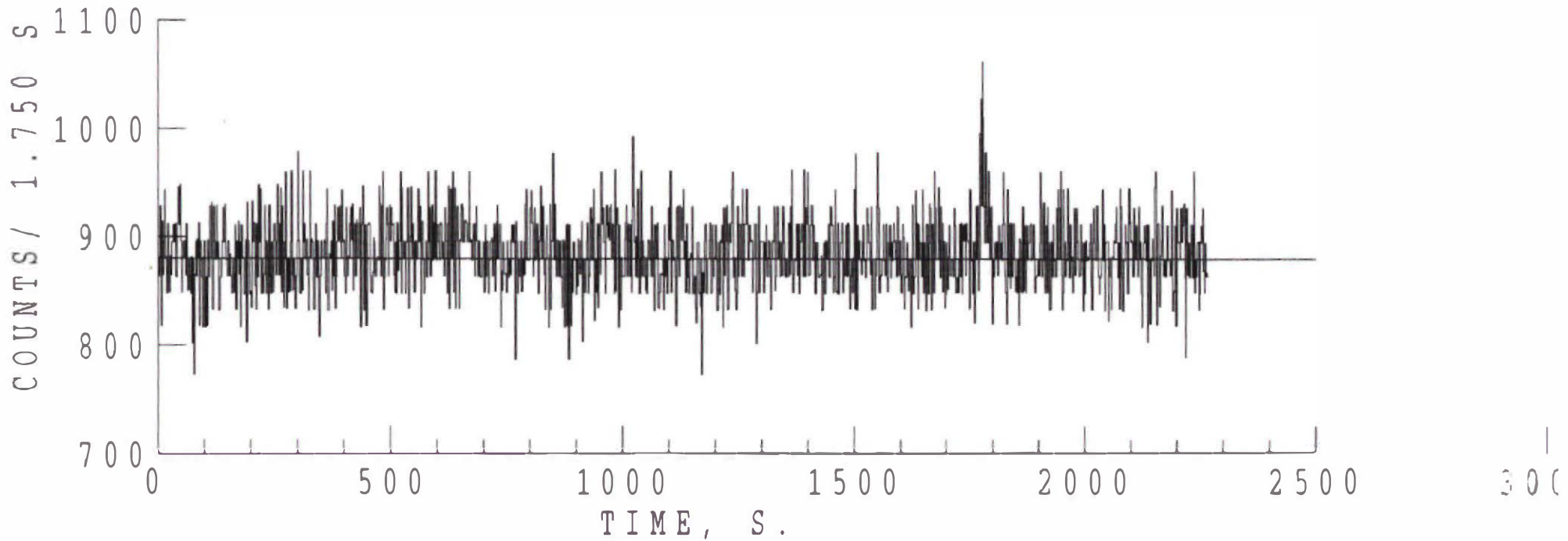
30/01/02

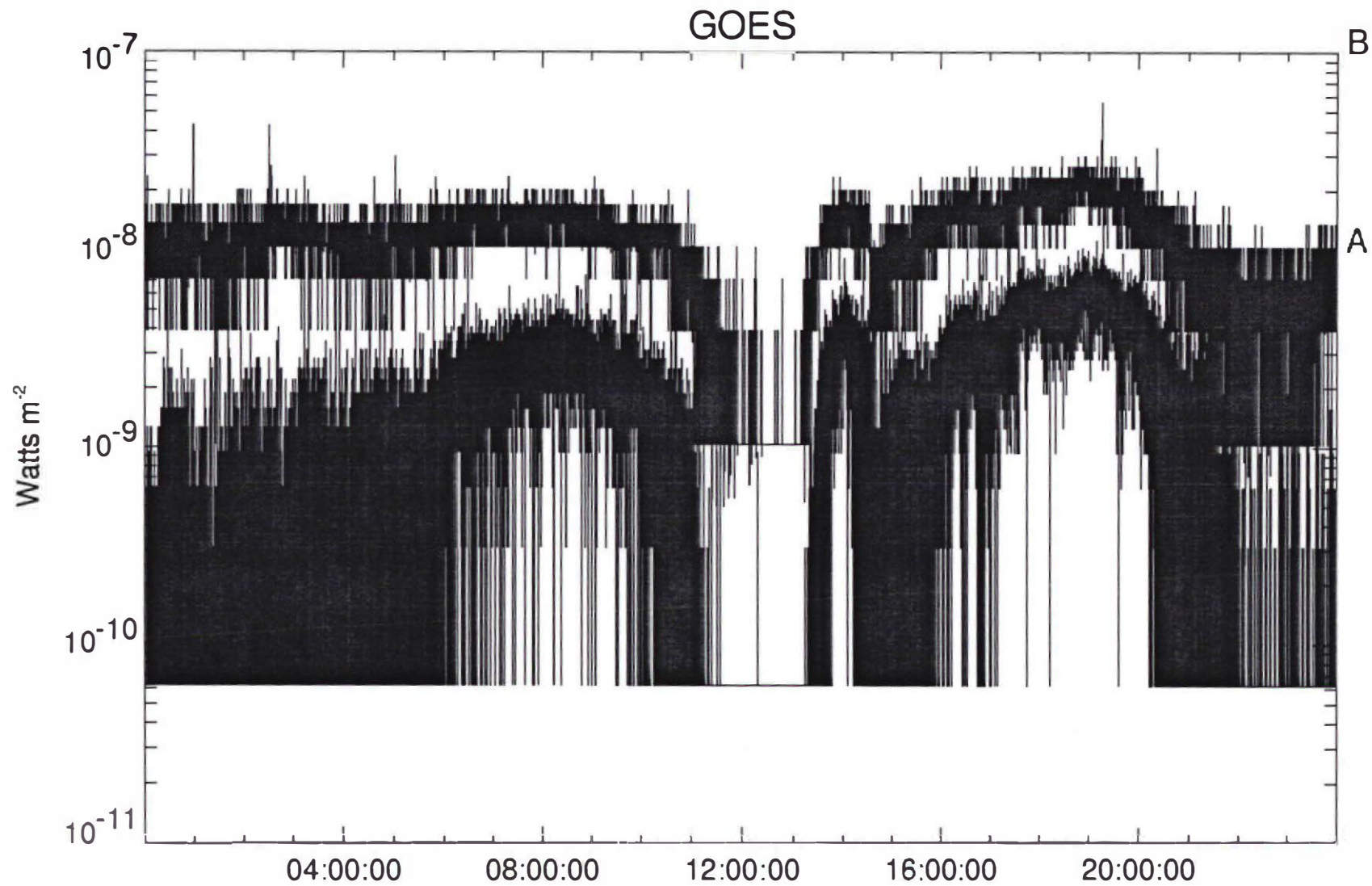
22/07/95 74016.188 s

0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





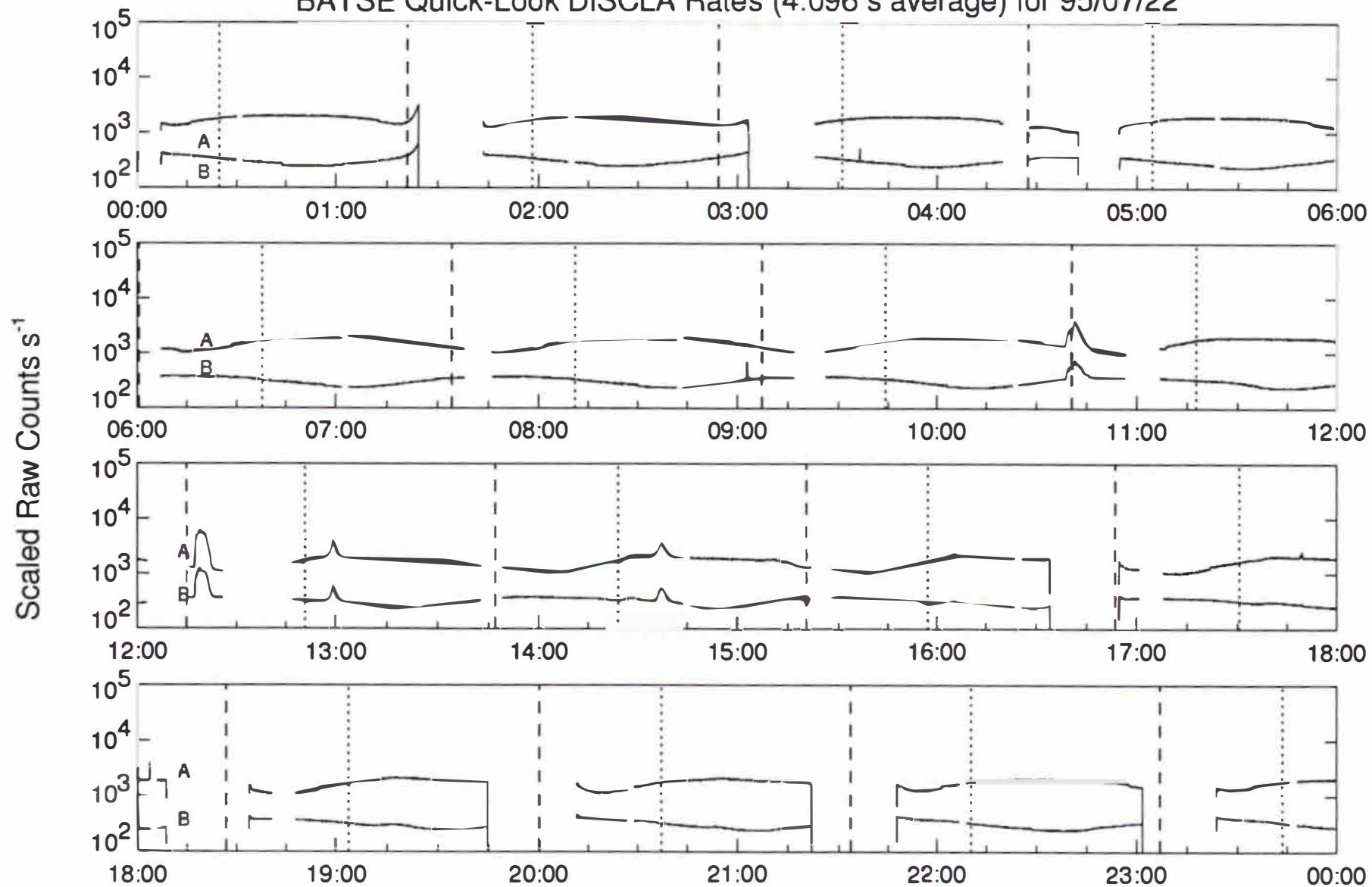
Data Start: 95/07/22, 0000:00

Plot created: 95/07/24, 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 95/07/22



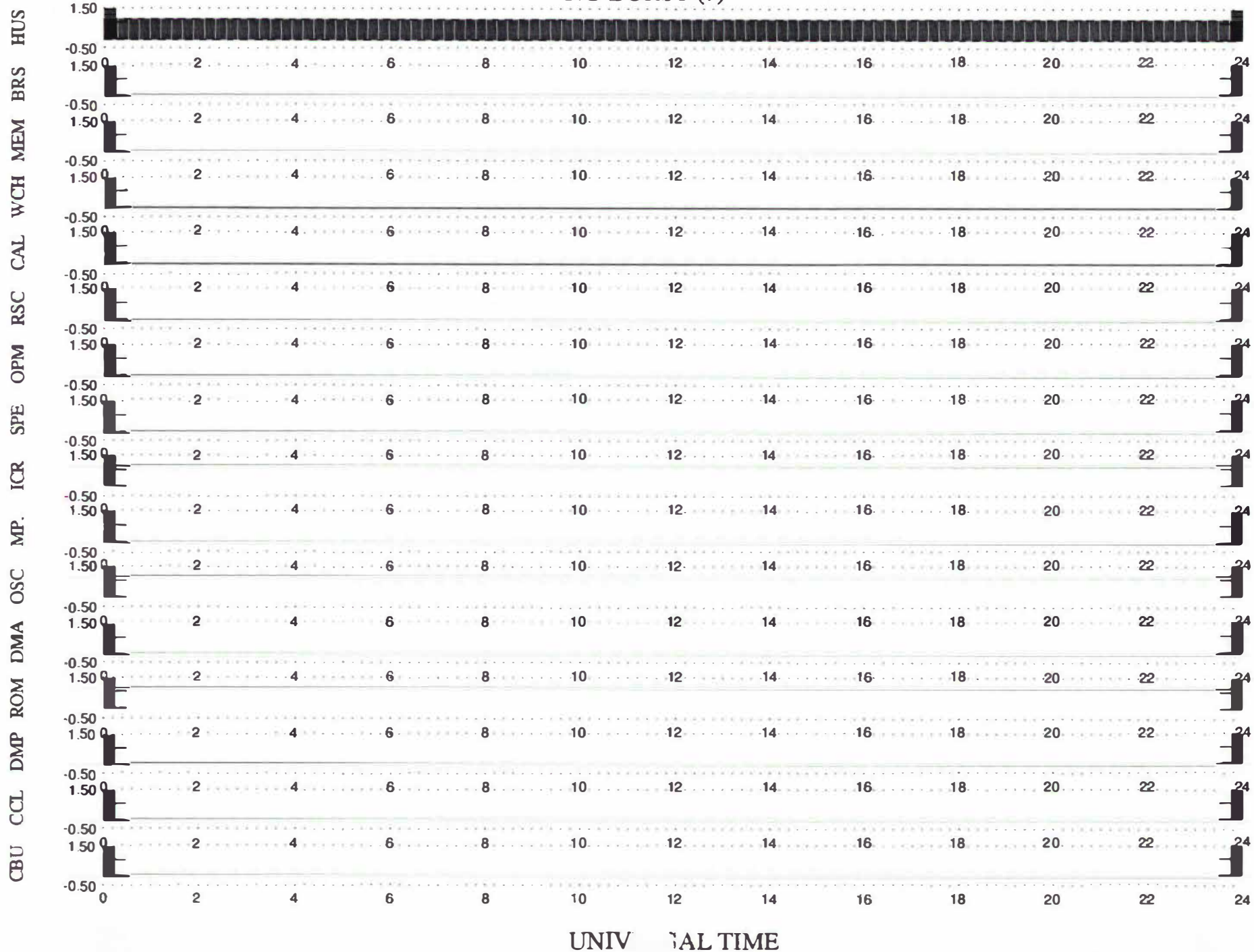
Current Time: 95/07/24, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

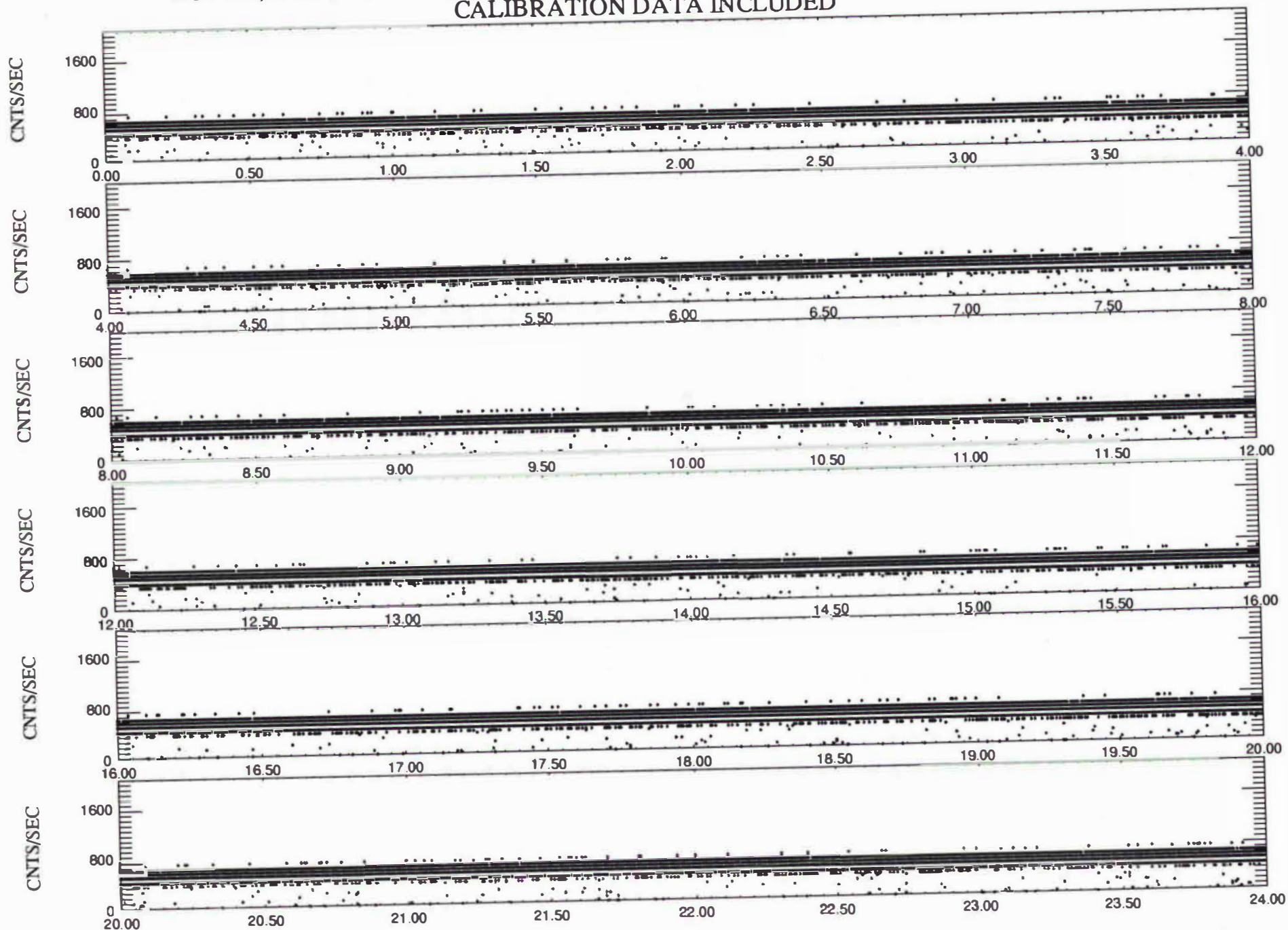
HUS MODES EDR day 203, year 1995 to day 203, year 1995
NO BURST (7)

1/25/96

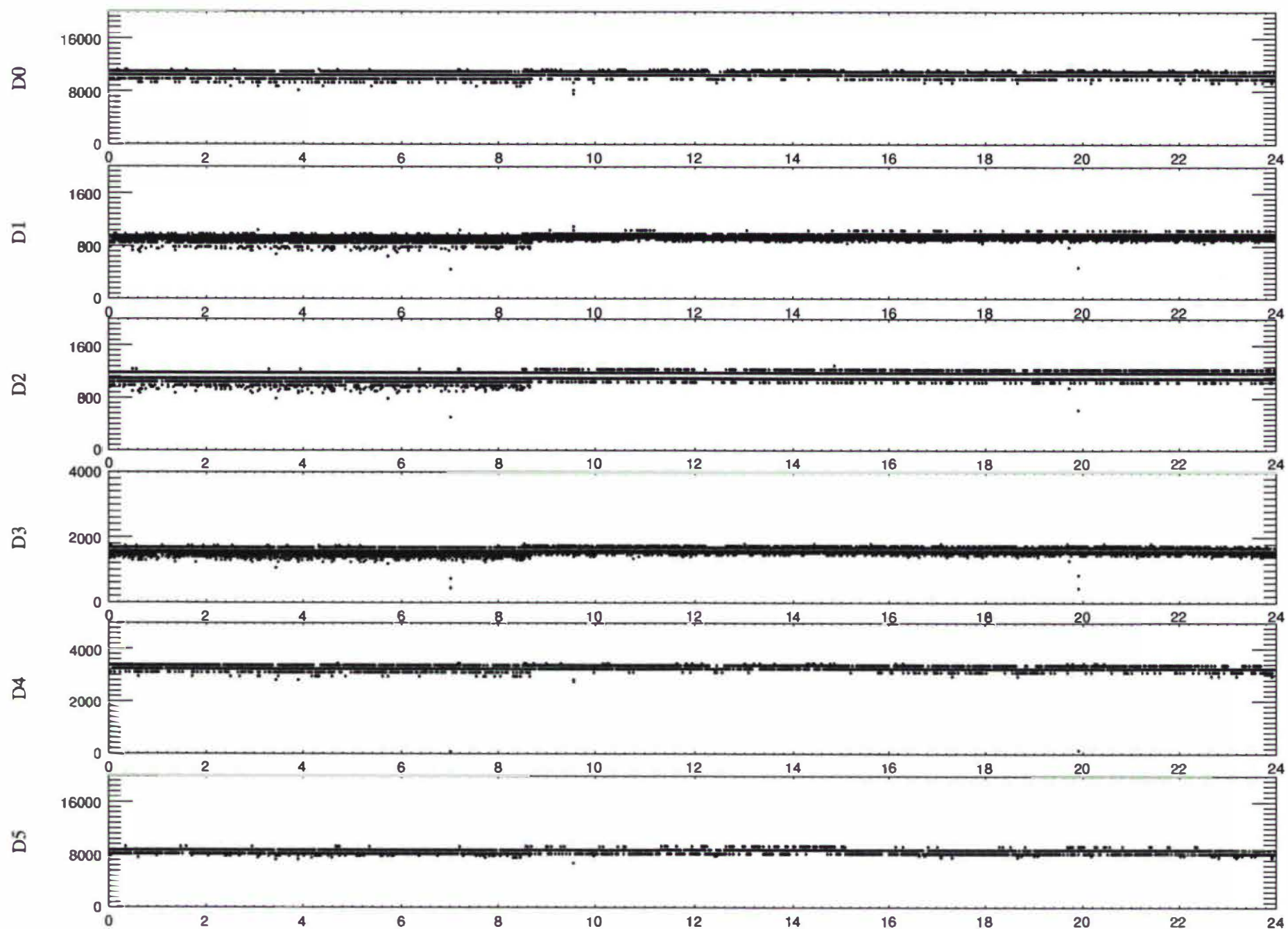


HUS 2A, MODE 1, NOT AVERAGED EDR day 203, year 1995 to day 203, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV 3AL TIME



UNIVERSAL TIME

KONUS

ULYSSES RT

25 / 01 / 00

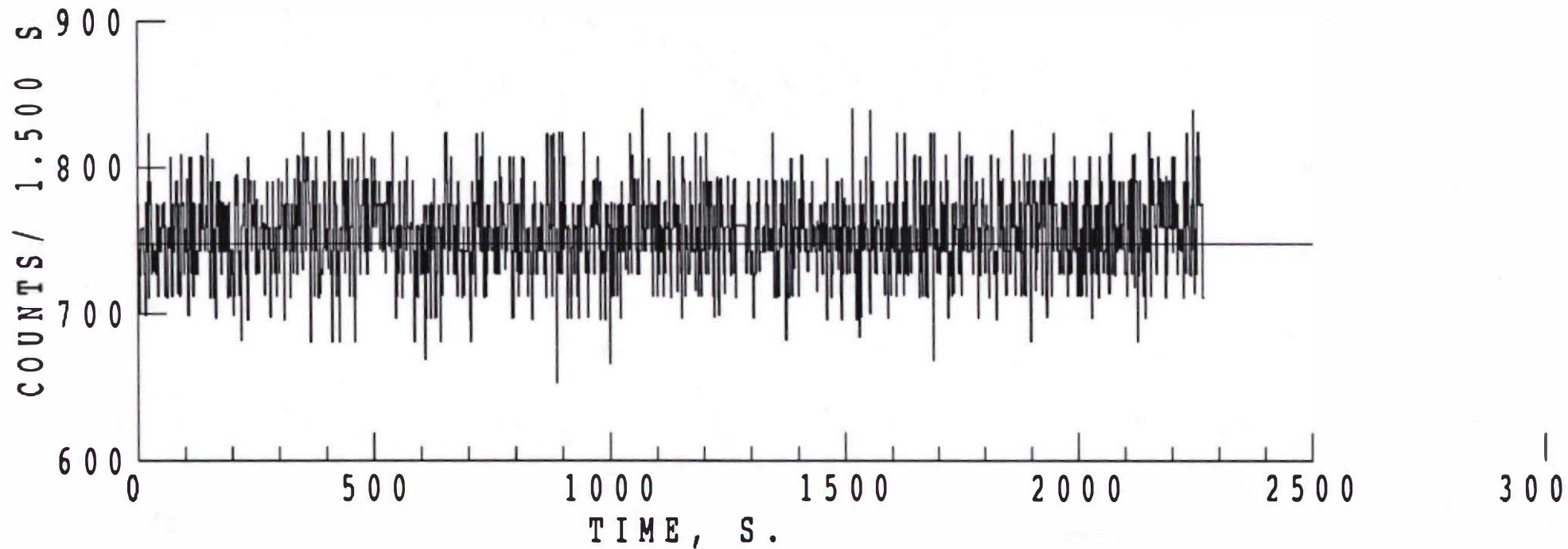
23 / 07 / 95 72540.172 s

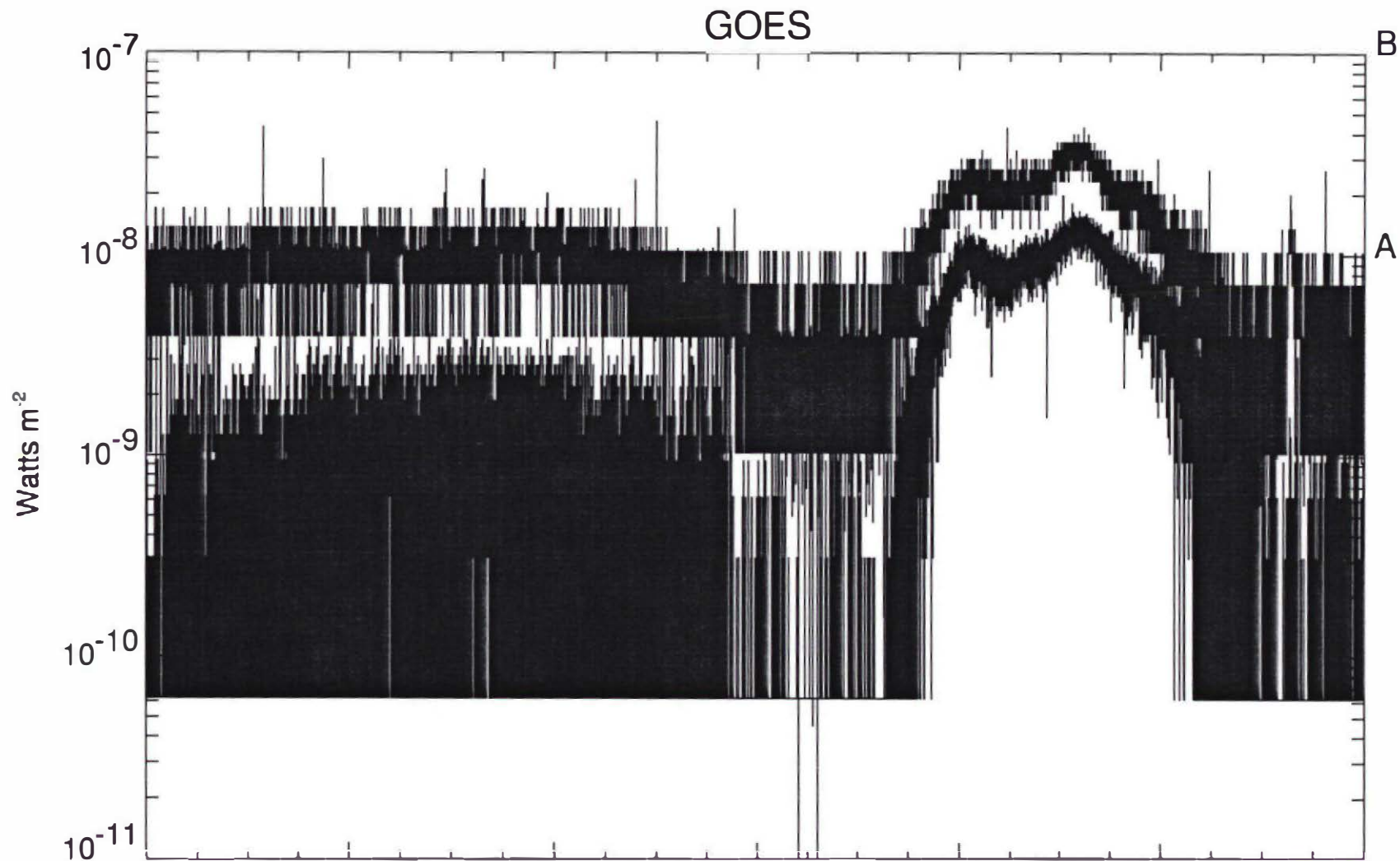
0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





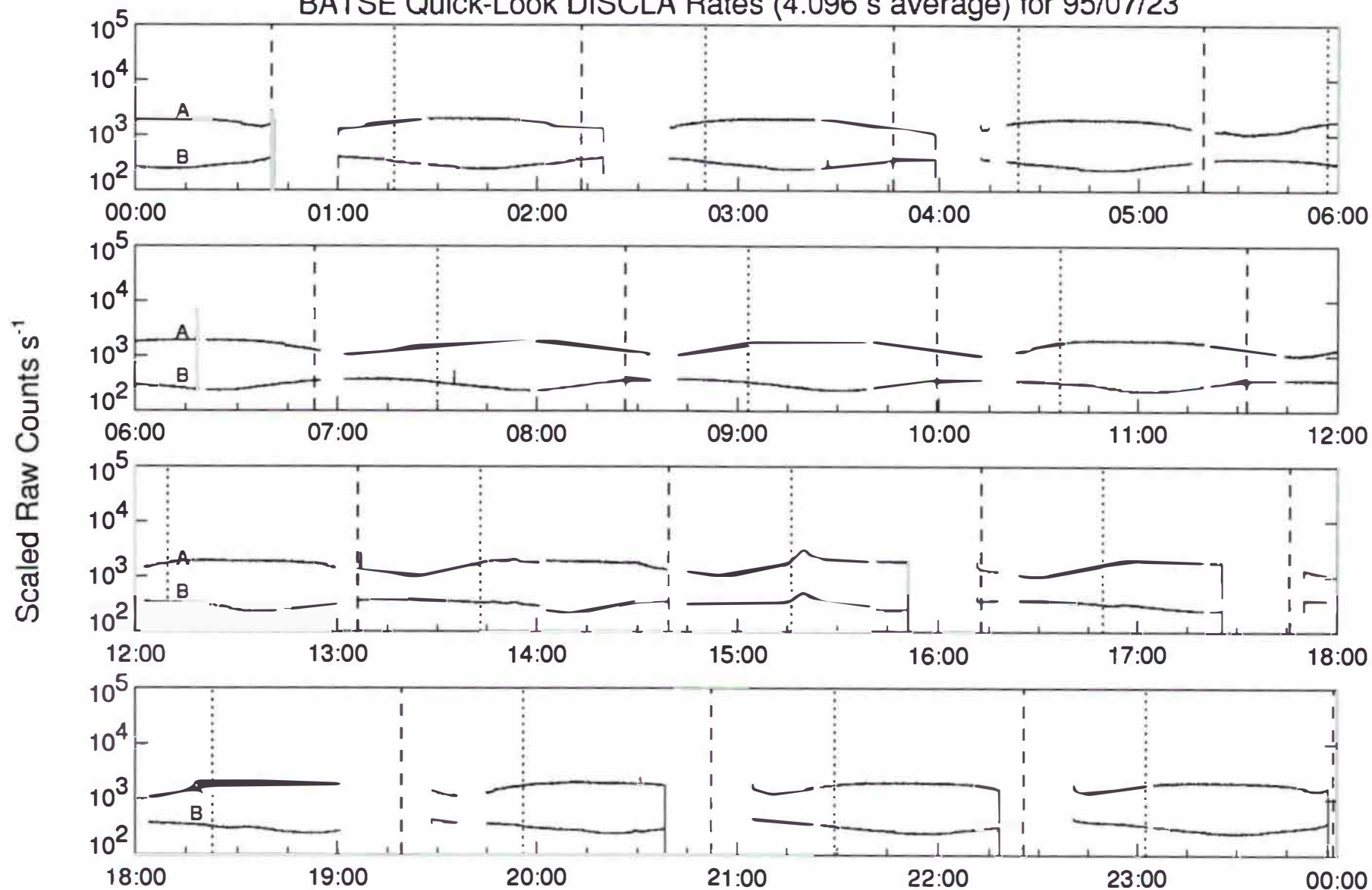
Data Start: 95/07/23, 0000:01

Plot created: 95/07/25, 1501

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 95/07/23



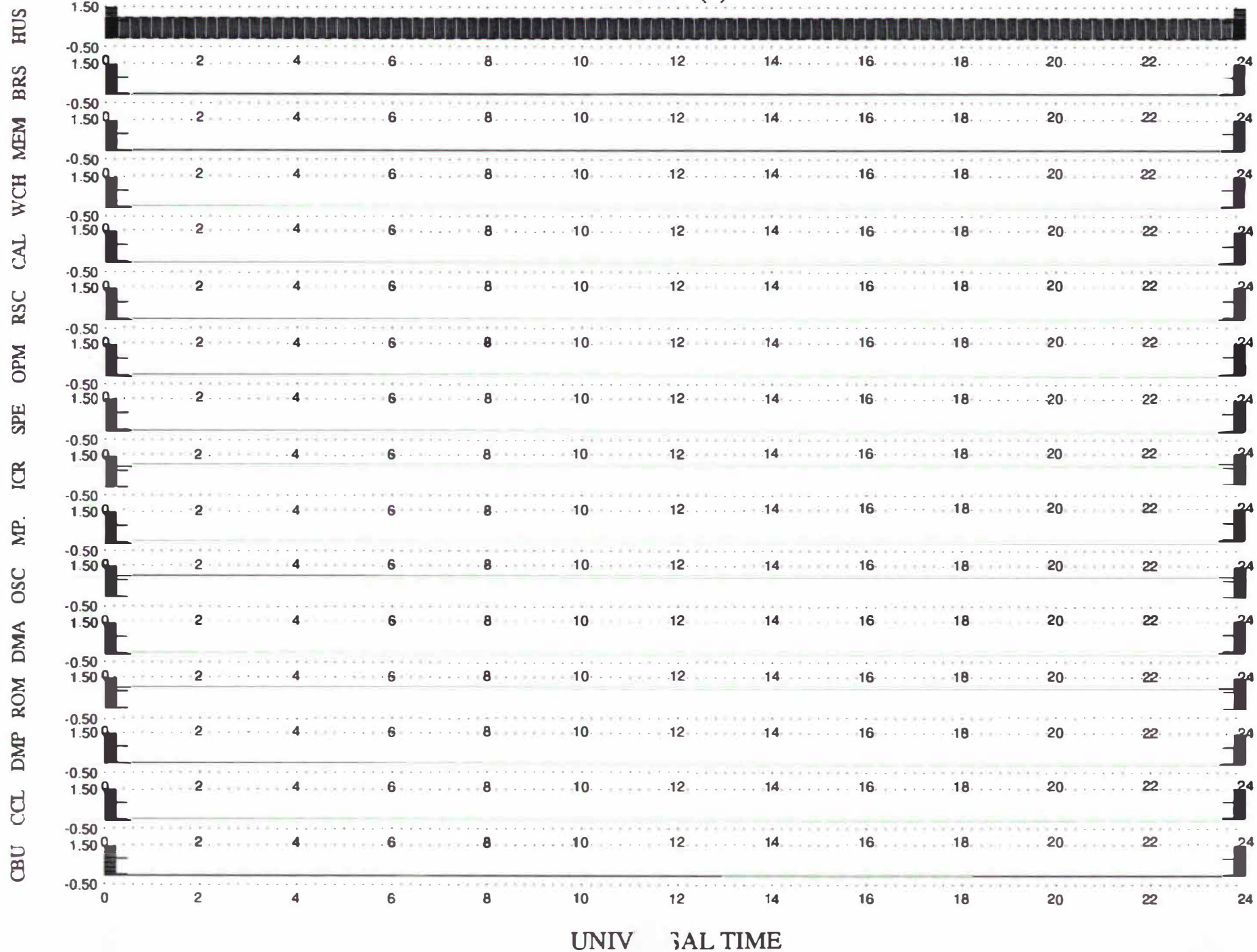
Current Time: 95/07/25, 1502 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

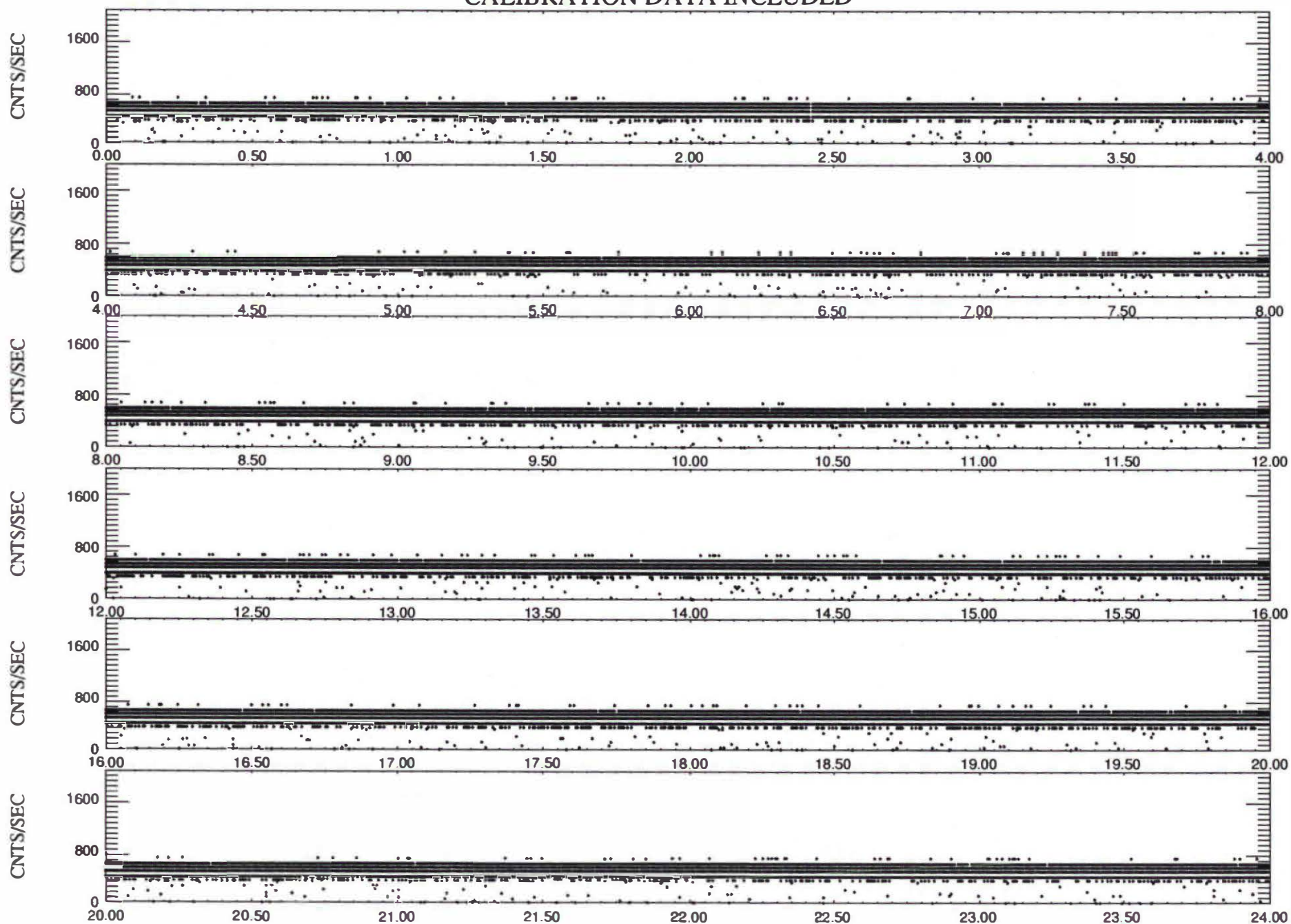
HUS MODES EDR day 204, year 1995 to day 204, year 1995 NO BURST (7)

1/25/96

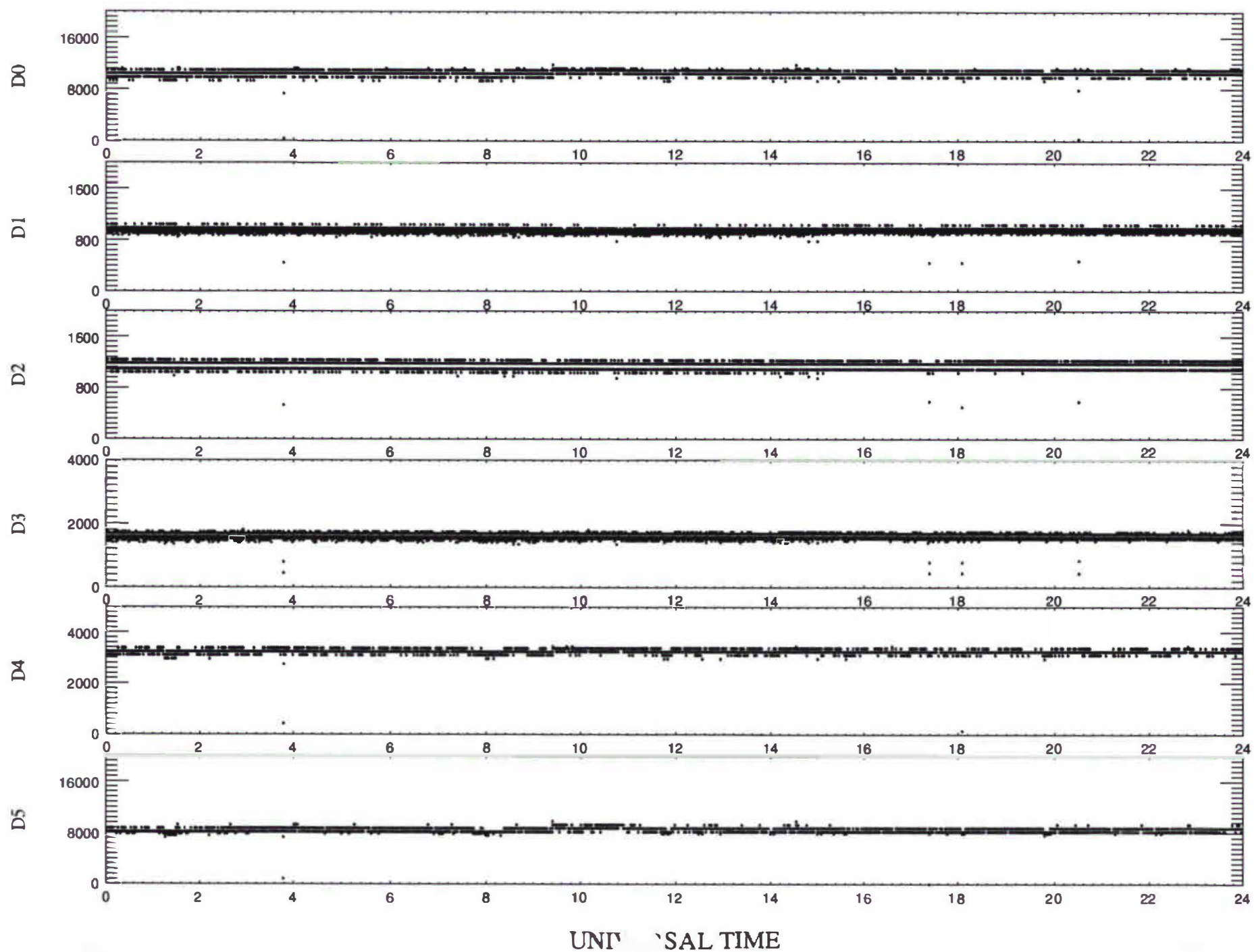


HUS 2A, MODE 1, NOT AVERAGED EDR day 204, year 1995 to day 204, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV TIME



From SAHI@SSLLES.MSFC.NASA.GOV Wed Jul 26 07:38 PDT 1995
Date: Wed, 26 Jul 1995 9:36:58 -0500 (CDT)
From: SAHI@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@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3704

TIME: TJD=9922 SECONDS=63951

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From SAHI@SSLLES.MSFC.NASA.GOV Wed Jul 26 07:40 PDT 1995
Date: Wed, 26 Jul 1995 9:39:54 -0500 (CDT)
From: SAHI@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@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3705

TIME: TJD=9922 SECONDS=77559

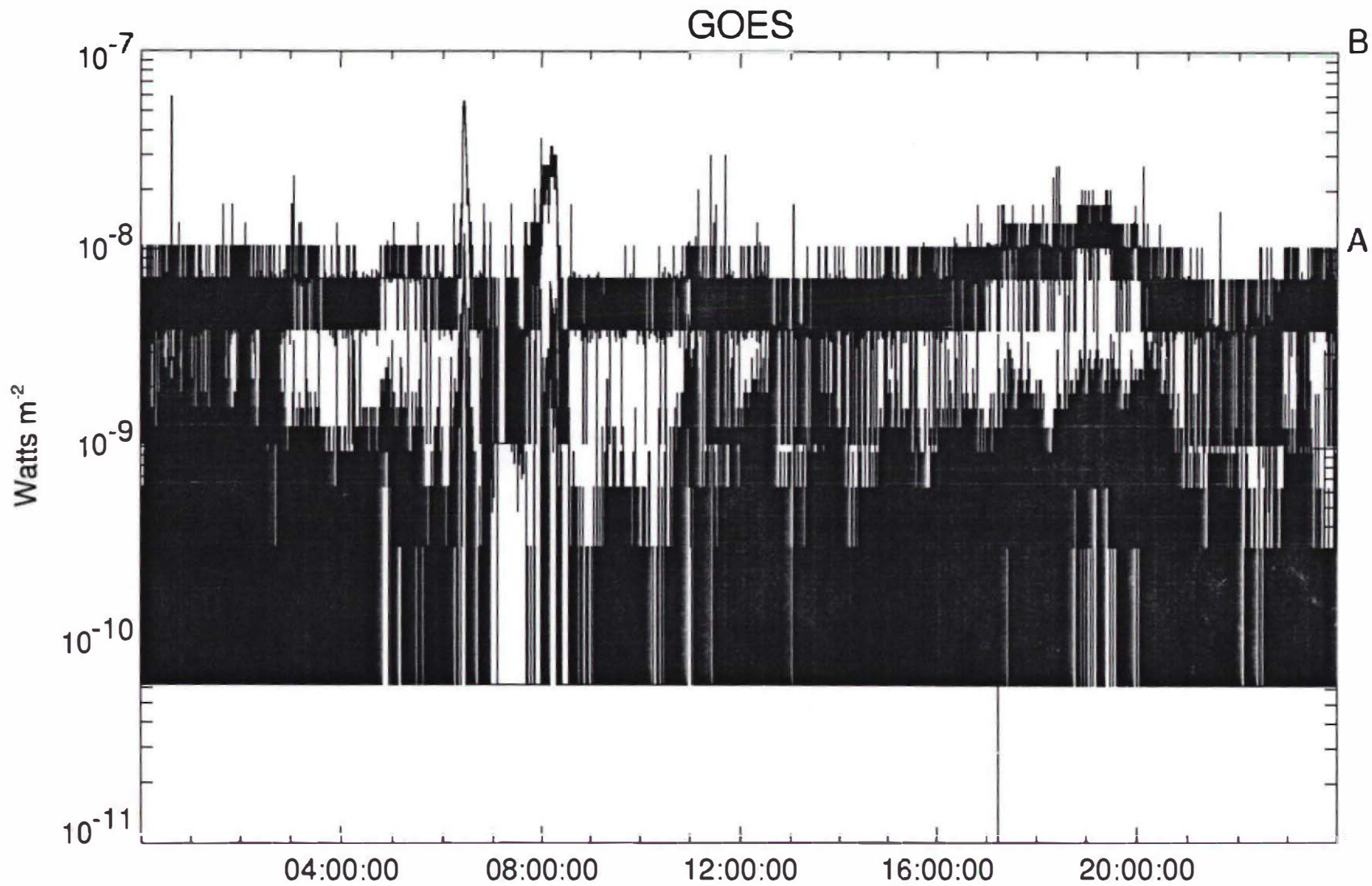
TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
TRIGGERED UPON ENTRY INTO SAA.



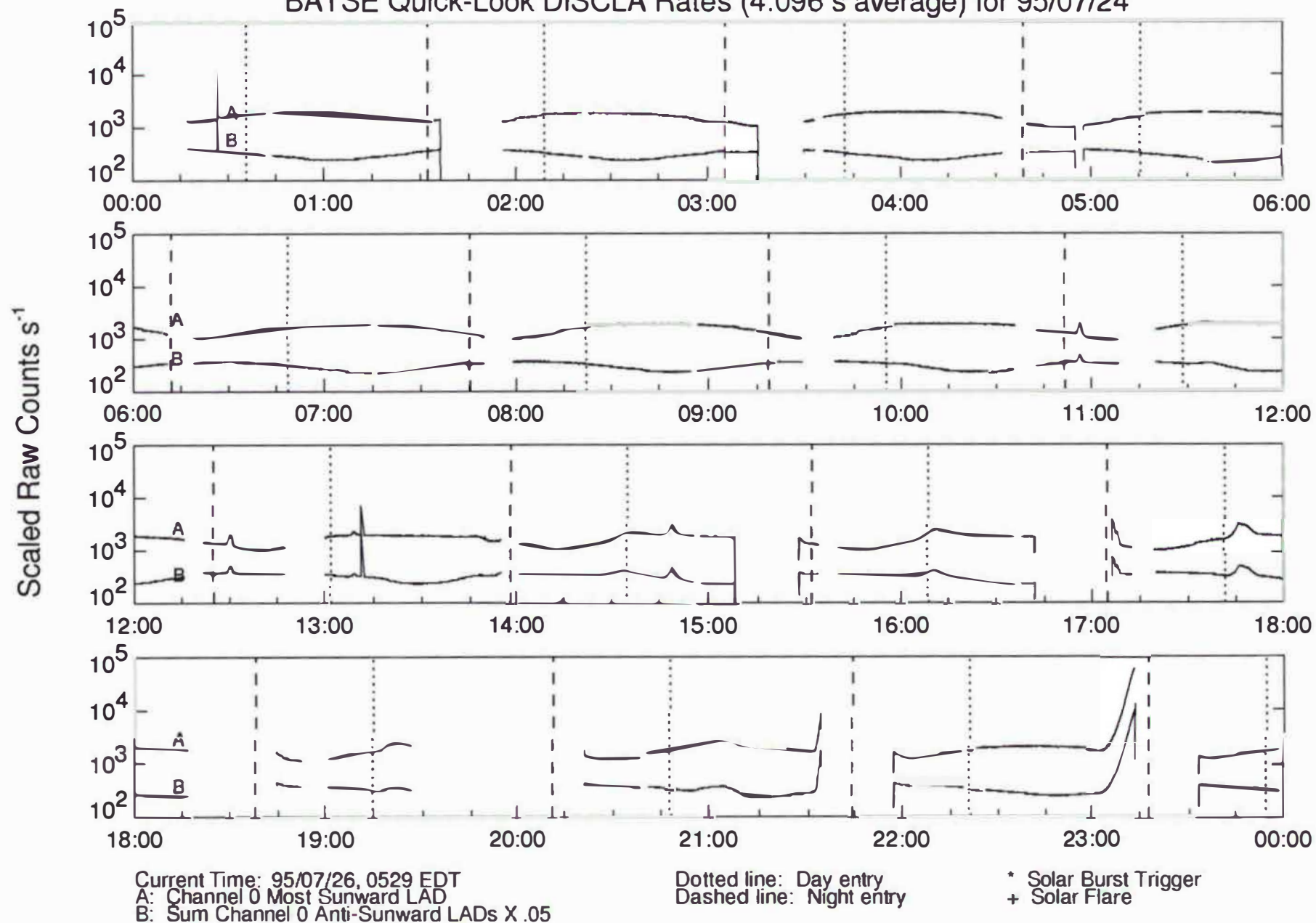
Data Start: 95/07/24, 0000:02

Plot created: 95/07/26, 0529

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

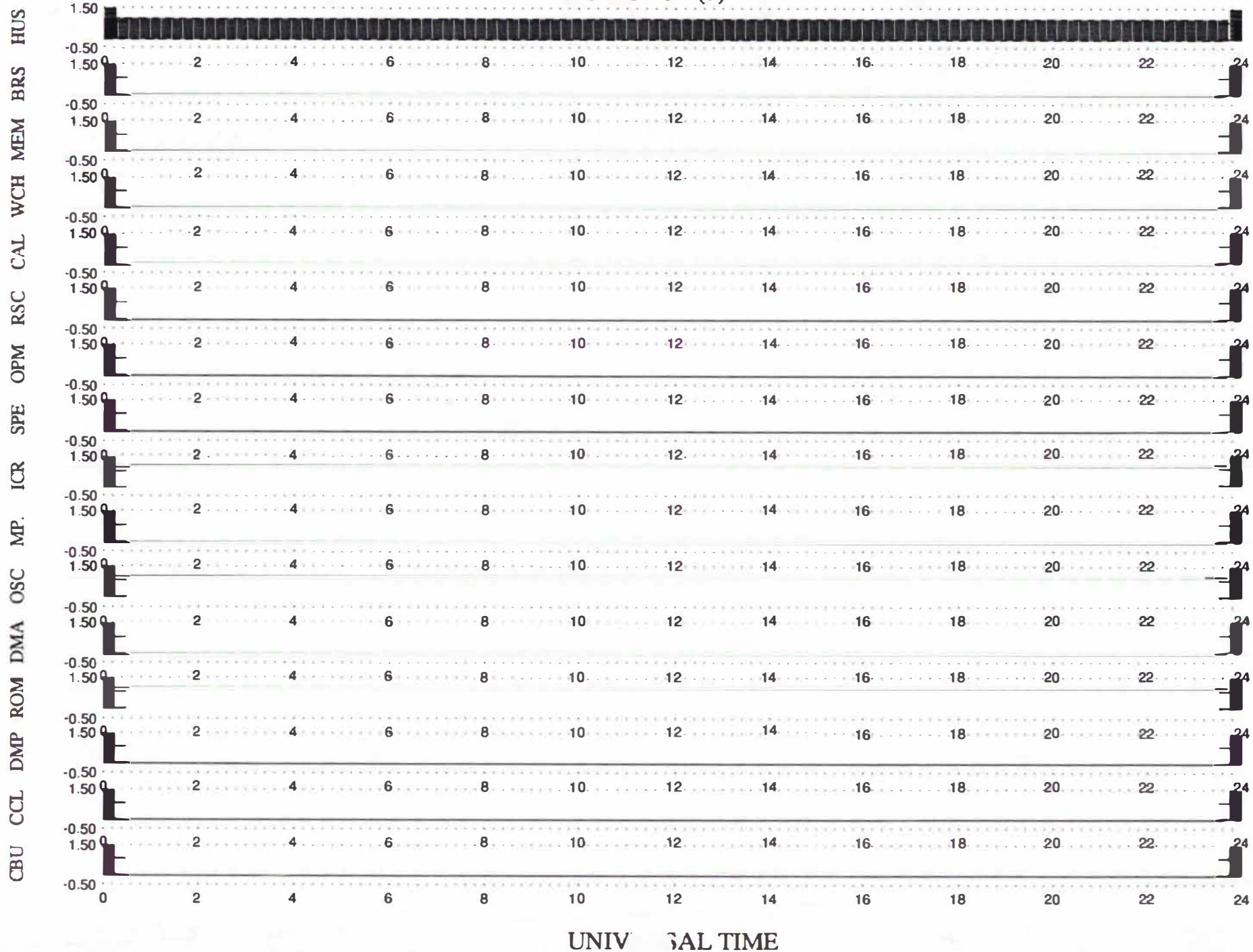
2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/24



HUS MODES EDR day 205, year 1995 to day 205, year 1995 NO BURST (7)

1/25/96

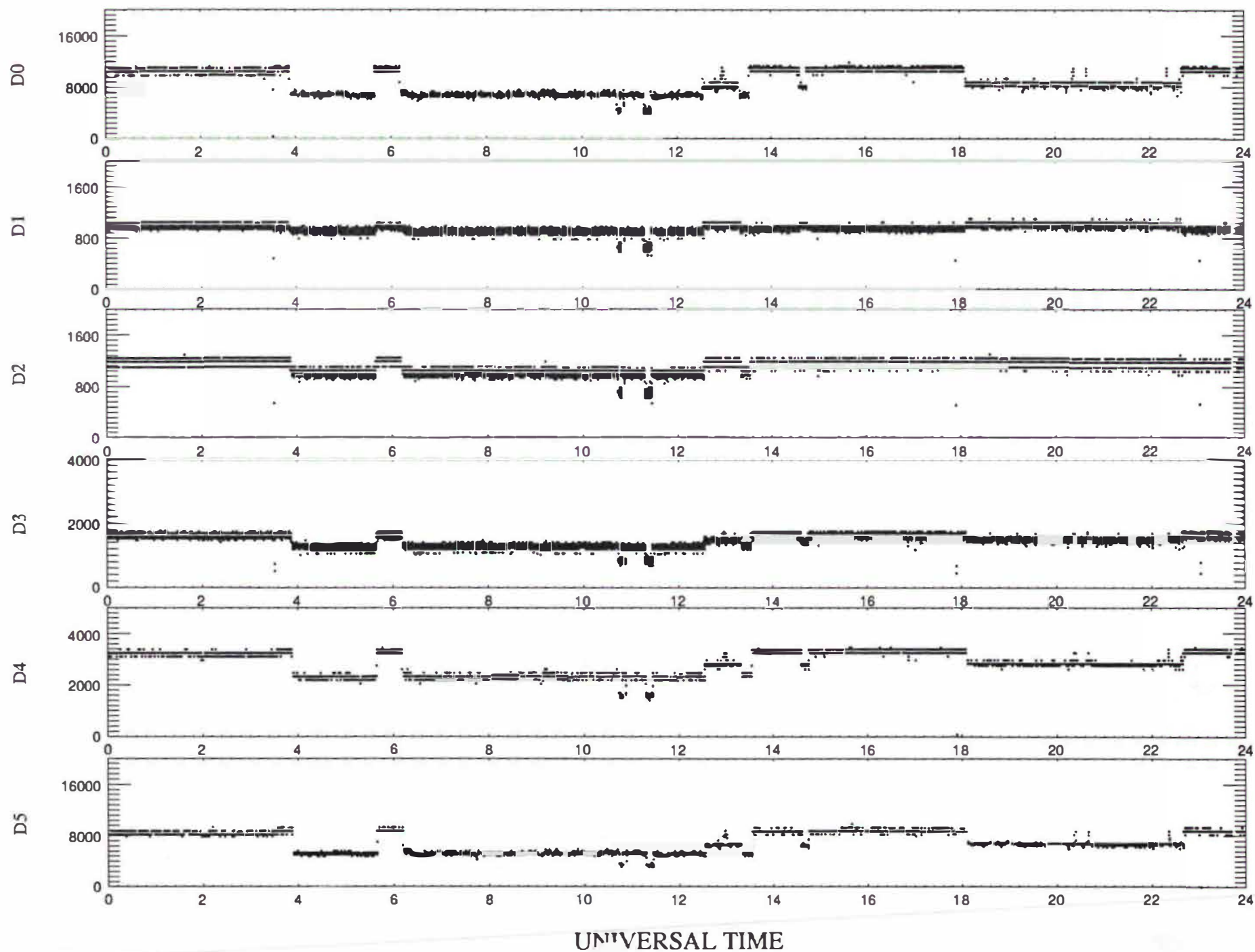


HUS 2A, MODE 1, NOT AVERAGED EDR day 205, year 1995 to day 205, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV 3AL TIME



From HAGEDON@fender.msfc.nasa.gov Thu Jul 27 09:36 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Thu, 27 Jul 1995 11:35:44 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3706

TIME: TJD=9923 SECONDS=02883

TYPE: SAA SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

From HAGEDON@fender.msfc.nasa.gov Thu Jul 27 09:38 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Thu, 27 Jul 1995 11:38:15 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3707

TIME: TJD=9923 SECONDS=50640

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

KONUS

ULYSSES RT

25 / 01 / 00

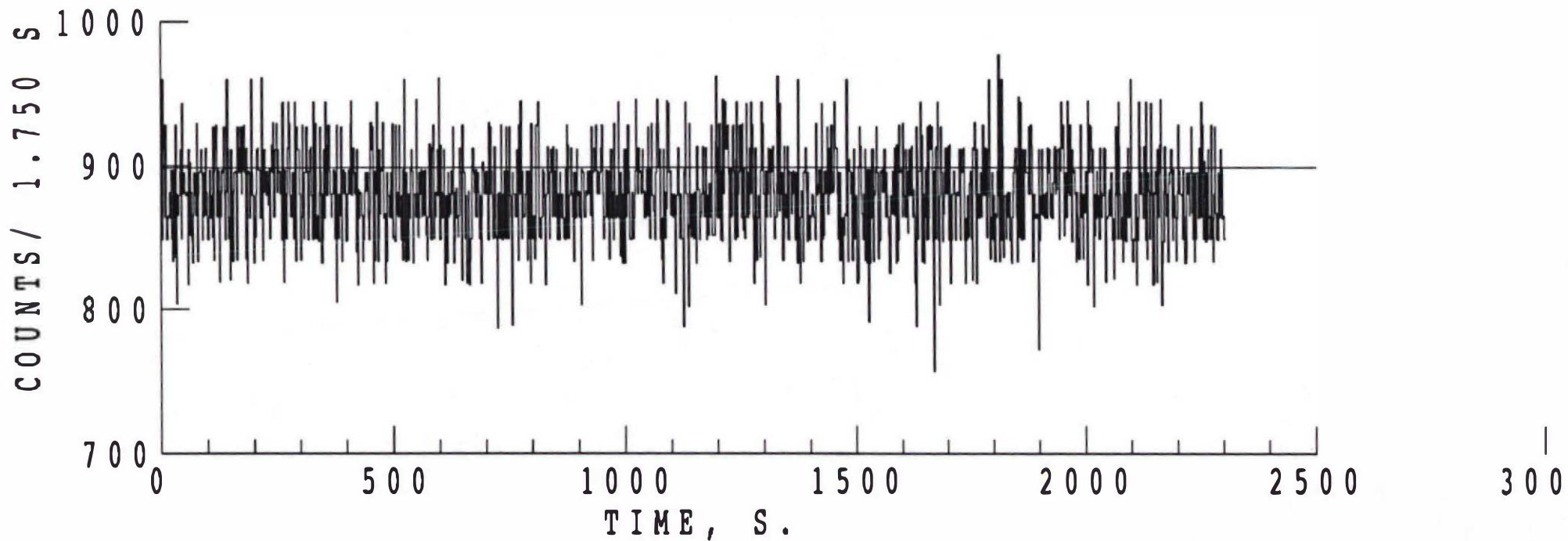
25 / 07 / 95 62568.020 s

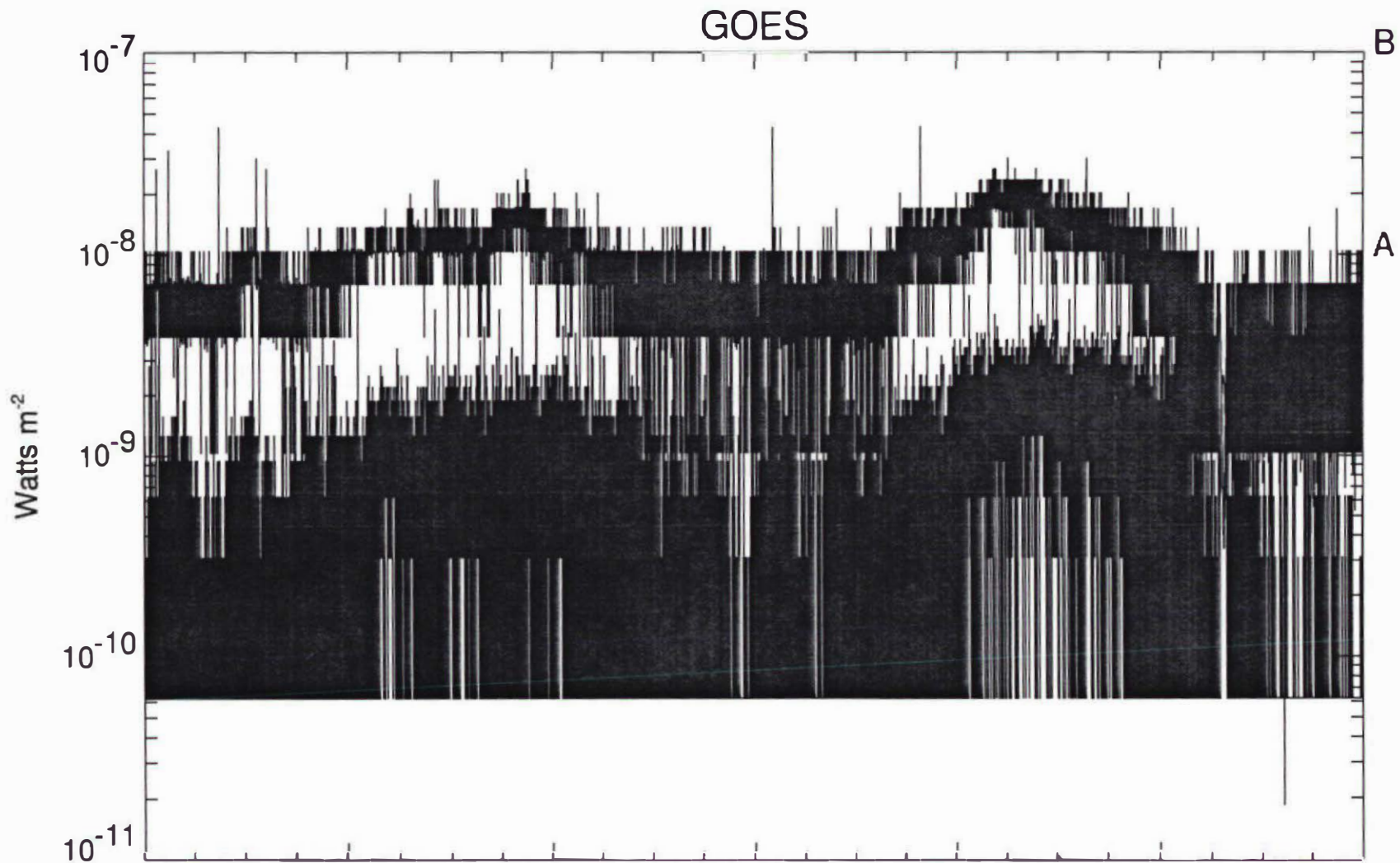
0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

W= 10 N= 10
>4.0 SIGMA FLUCTUATIONS

W= 10 N= 2
>4.0 SIGMA FLUCTUATIONS





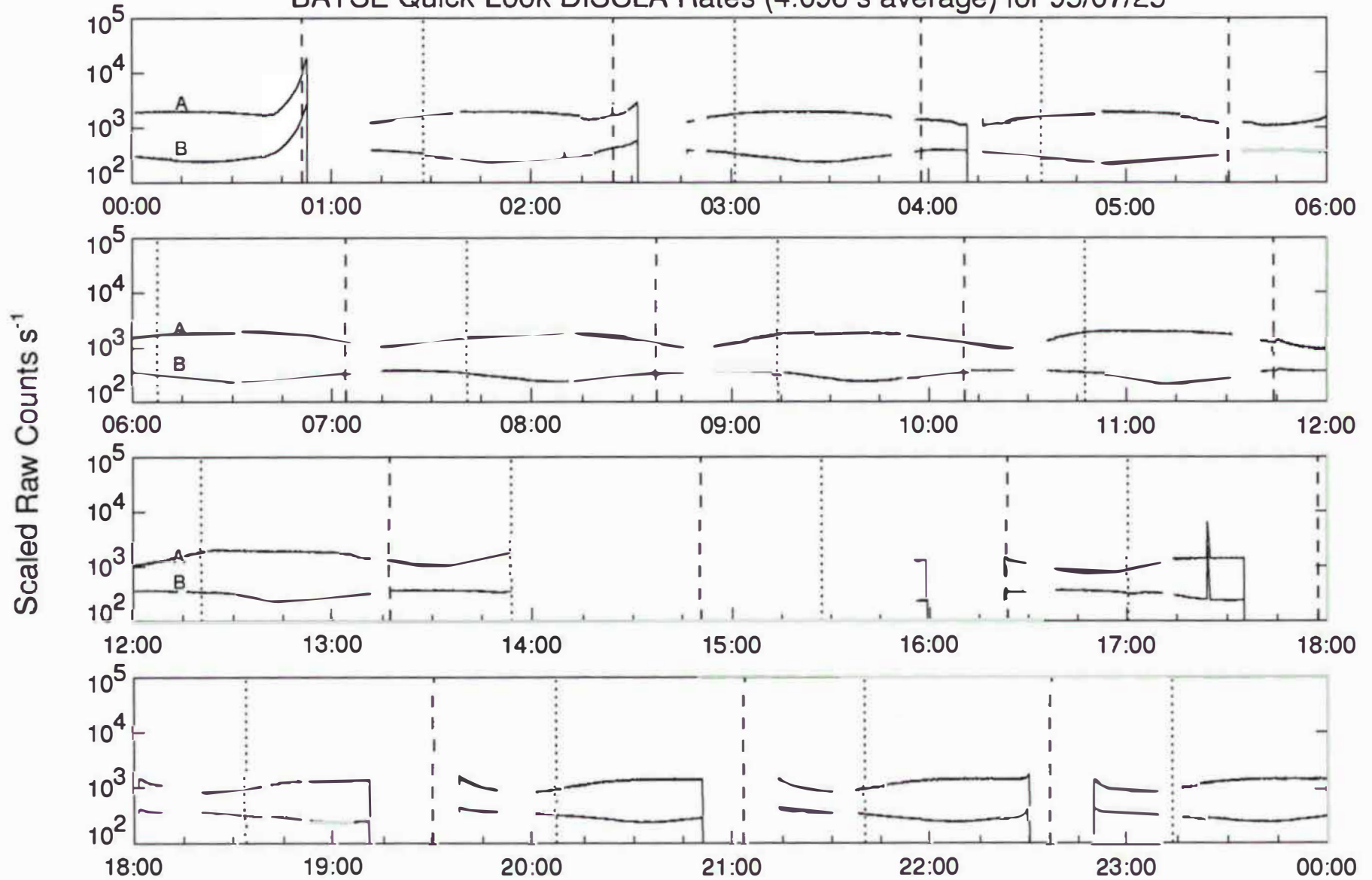
Data Start: 95/07/25, 0000:00

Plot created: 95/08/07, 1356

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 95/07/25



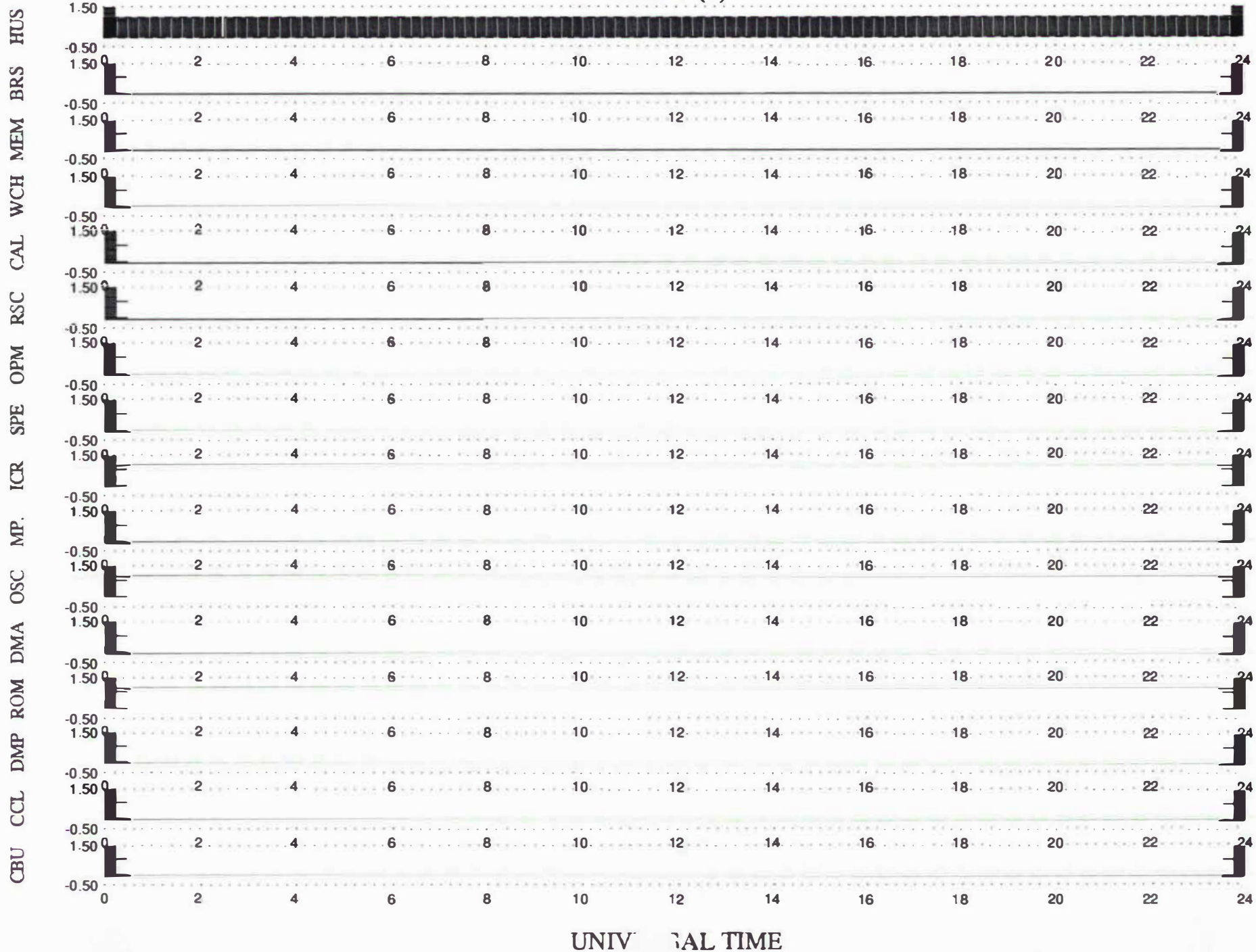
Current Time: 95/07/27, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

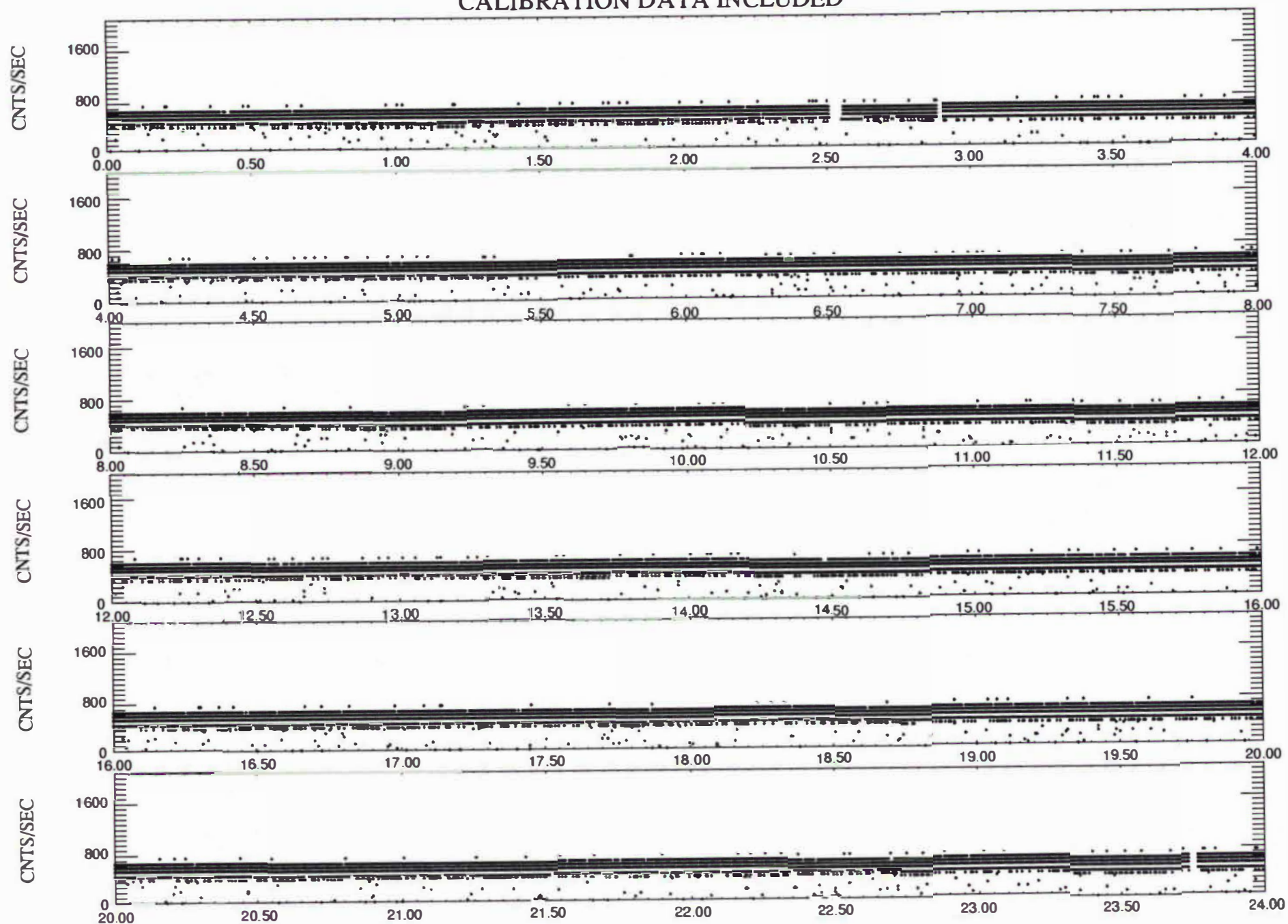
HUS MODES EDR day 206, year 1995 to day 206, year 1995 NO BURST (7)

1/25/96

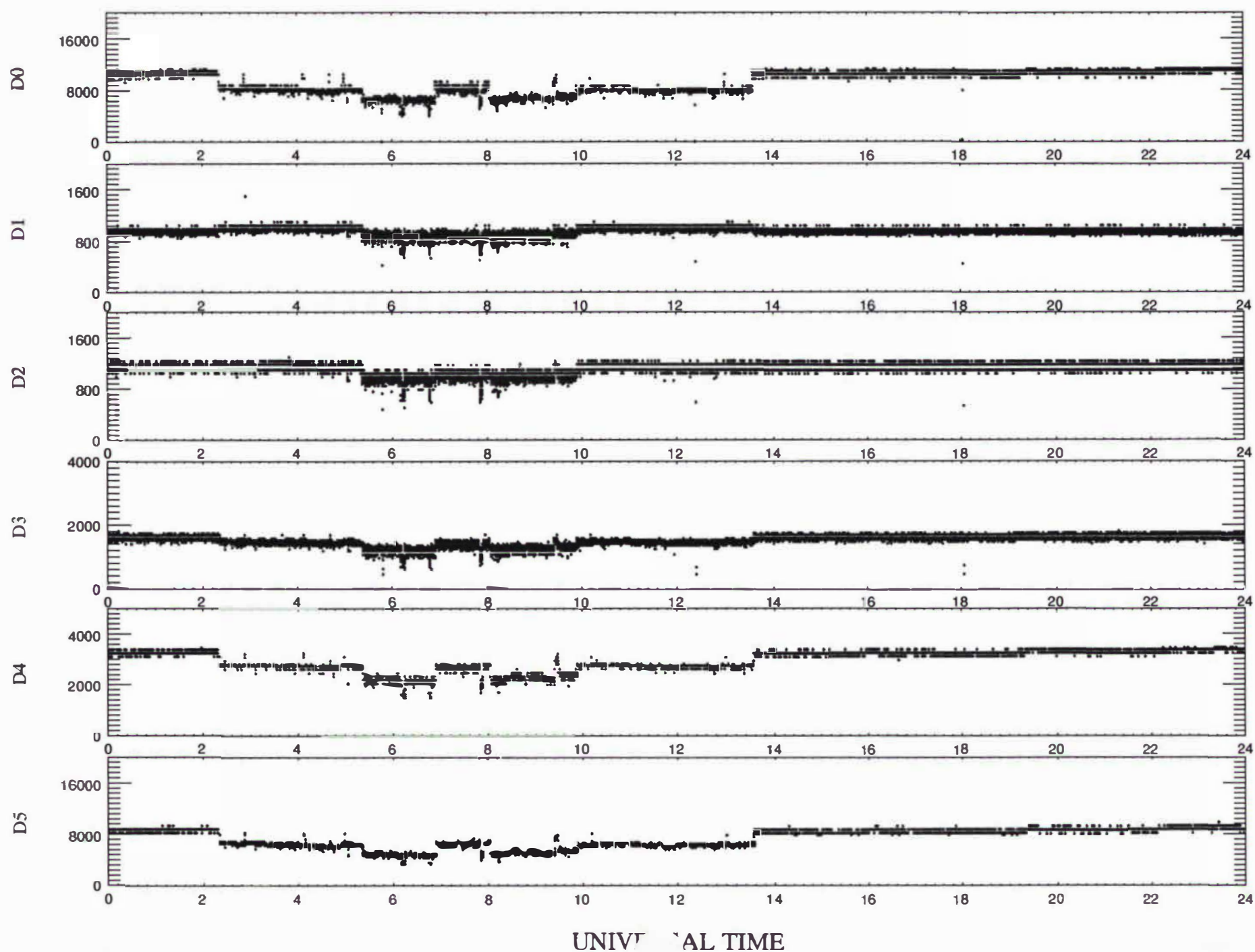


HUS 2A, MODE 1, NOT AVERAGED EDR day 206, year 1995 to day 206, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV 3AL TIME



KONUS (on 26th)

25 / 01 / 00

ULYSSES RT

25 / 07 / 95 86328.188 s

0.250 S INTERVALS REGROUPED BY 6

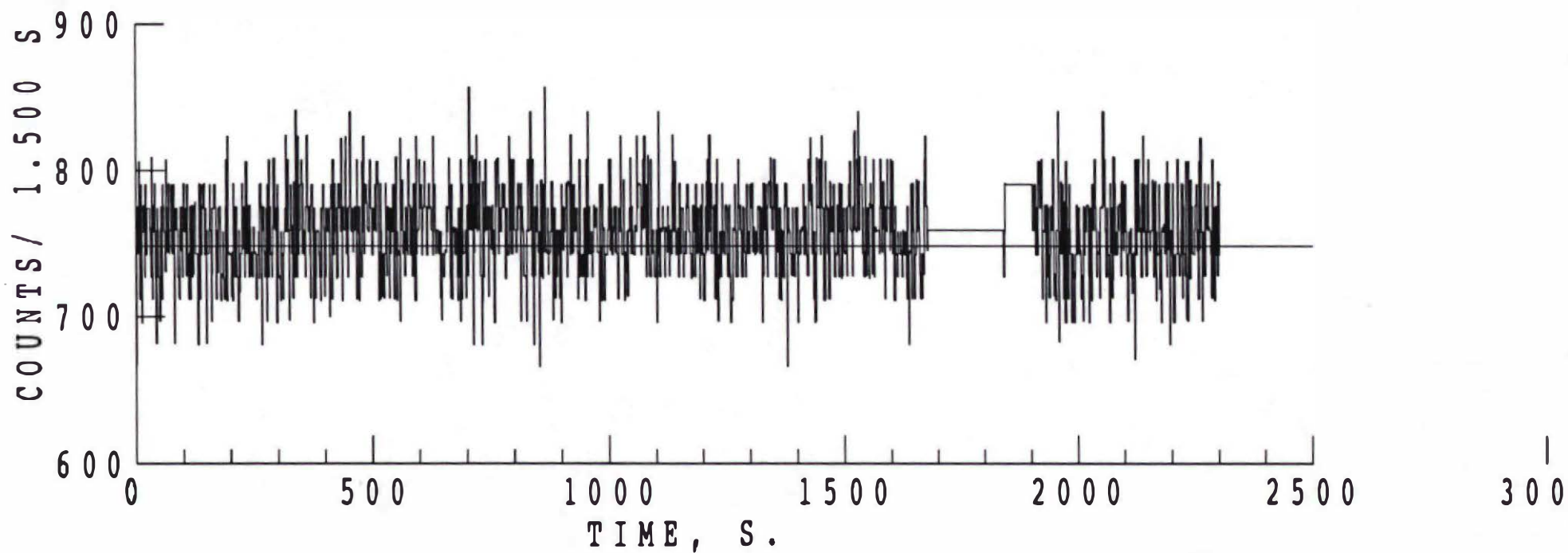
0 - 0 keV

N= 10 M= 10

>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From RICHARDSON@SSLLES.MSFC.NASA.GOV Fri Jul 28 11:11 PDT 1995
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
Date: Fri, 28 Jul 1995 13:11:01 -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
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3708

TIME: TJD=9924 SECONDS=47900

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

From RICHARDSON@ssl.msfc.nasa.gov Fri Jul 28 11:31 PDT 1995
Date: Fri, 28 Jul 1995 13:30:47 -0500 (CDT)
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3709

BATSEARCH PROGRAM

~~NO~~ YES

BATSE BURST # 3709
EVENT OF 1995 JUL 26 DAY OF YEAR=207
EVENT CROSSING TIME AT BATSE : 51578. S. OR 14:19:38.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 13.000 41.000 12 - 41
BATSE PEAK COUNTING RATE: 20000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 26/ 7/ 95 IS:
RA= 117.681 DEC= 83.385 DIST= 2.208 AU
BATSE-ULYSSES DISTANCE = 330344291. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=129.02 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -693.82 SECS.
CROSSING TIME AT ULYSSES IS 50884. S. OR 14:08:04 +/- 188.09 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 26/ 7/ 95 IS:
RA= 182.652 DEC= -0.755 DIST= 1.820 AU
MARS-BATSE DISTANCE = 272334720. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 41.32 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 682.23 SECS.
CROSSING TIME AT MARS IS 52260. S. OR 14:31:00 +/- 114.50 SECONDS

BATSE BURST TRIGGER

NO.: 3709

TIME: TJD=9924 SECONDS=51578

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=55.9 AZIMUTH=259.0 ERROR=1.8 DEGREES

COMMENTS:

GRB. WITH STRUCTURE, LASTING APROX. 3.5 SEC. NOT VISIBLE ABOVE 300KEV.
THE ABOVE ERROR IS THE STATISTICAL ERROR, ADD 1.5 DEG. FOR SYSTEMATIC ERROR.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3709	950726	9924	51578	20000	013	+41	3.5

Helio corr removed

Date: July 2 '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? *N/A*
- ☒ 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*
- ☒ Does T_0 in data file agree with T_0 in plot?
- ☒ 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? *No*

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

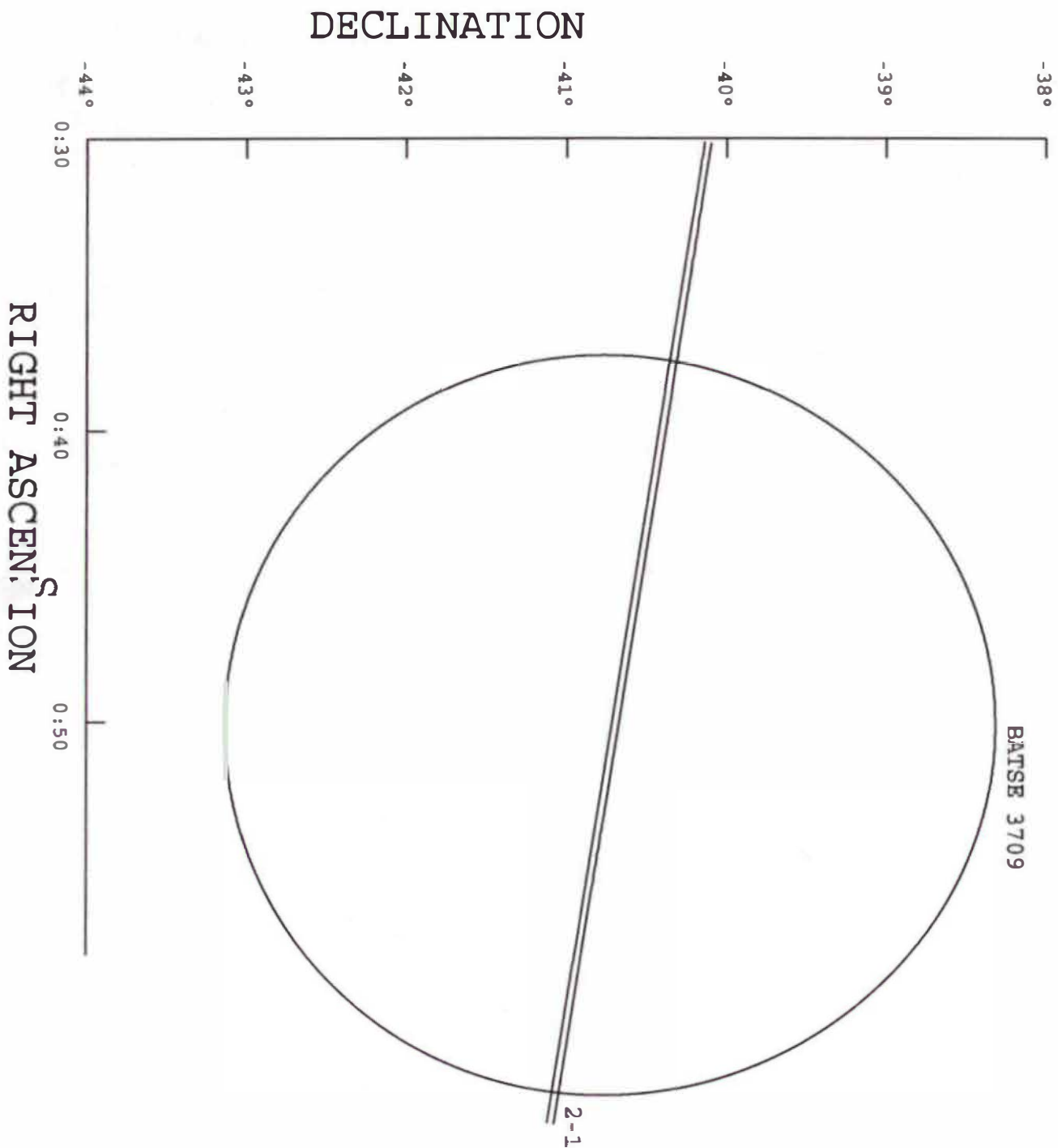
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF JUL 26, 1995 14:31

27/ 3/98



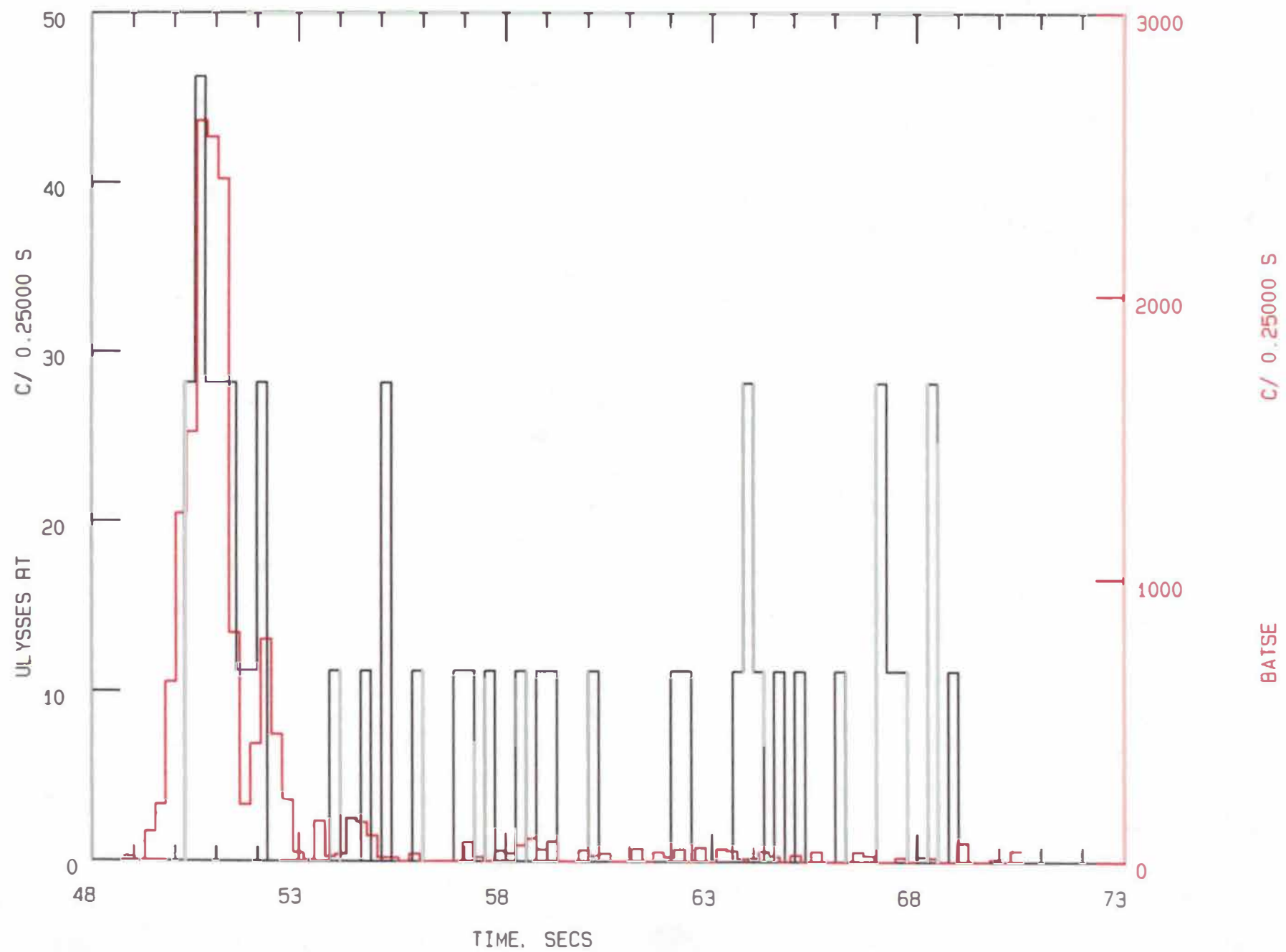
ULYSSES RT-BATSE

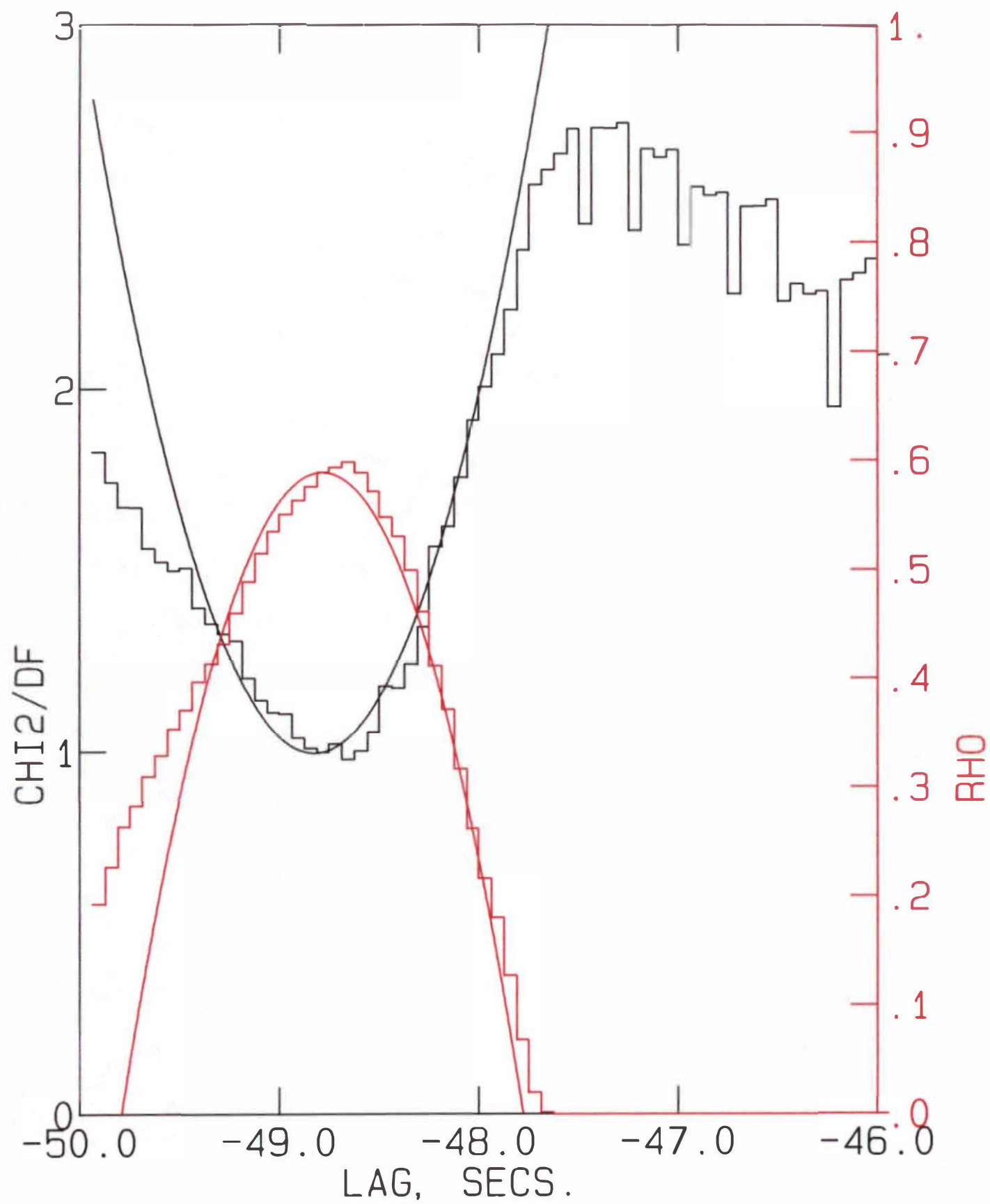
CORRELATION

26/ 7/95

52271.190

27/ 3/98



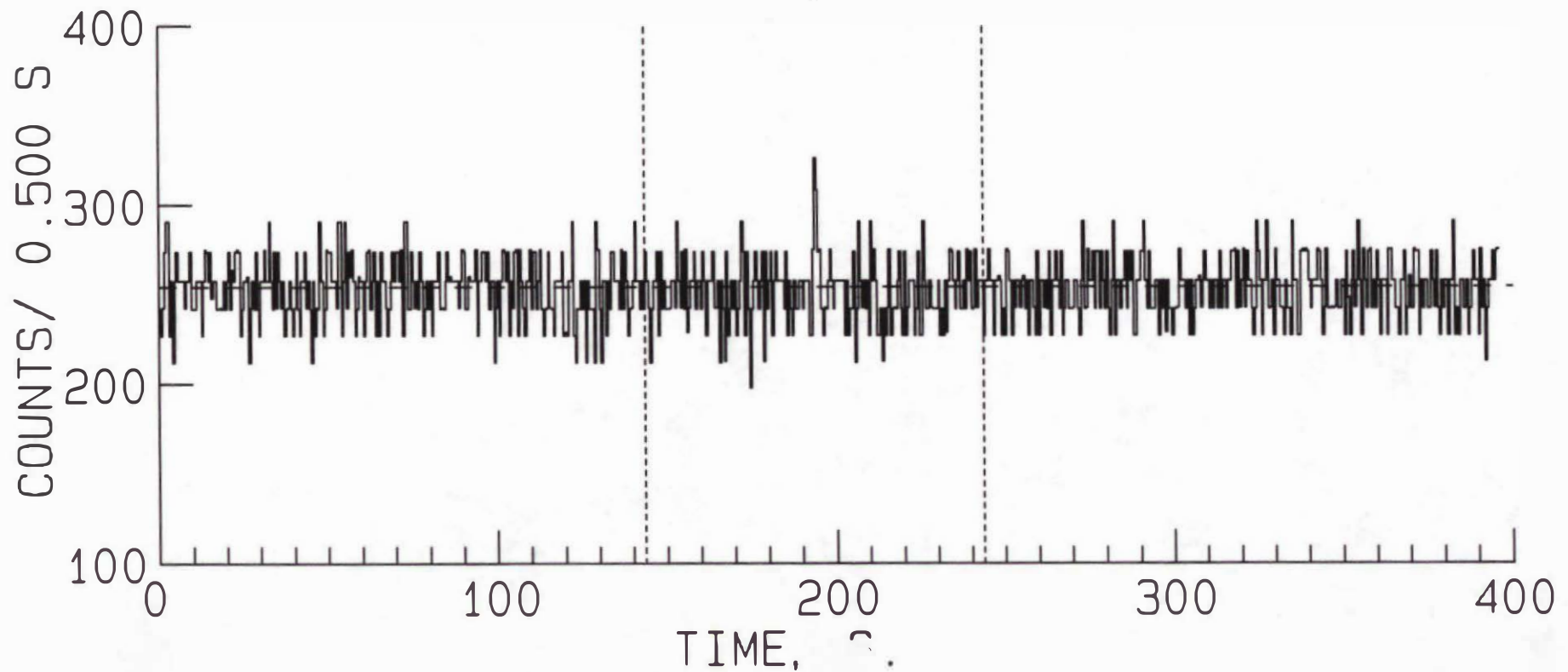


ULYSSES RT

27 / 3 / 98

26 / 7 / 95 52128.098 s
0.250 S INTERVALS REGROUPED BY 2
21- 142 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



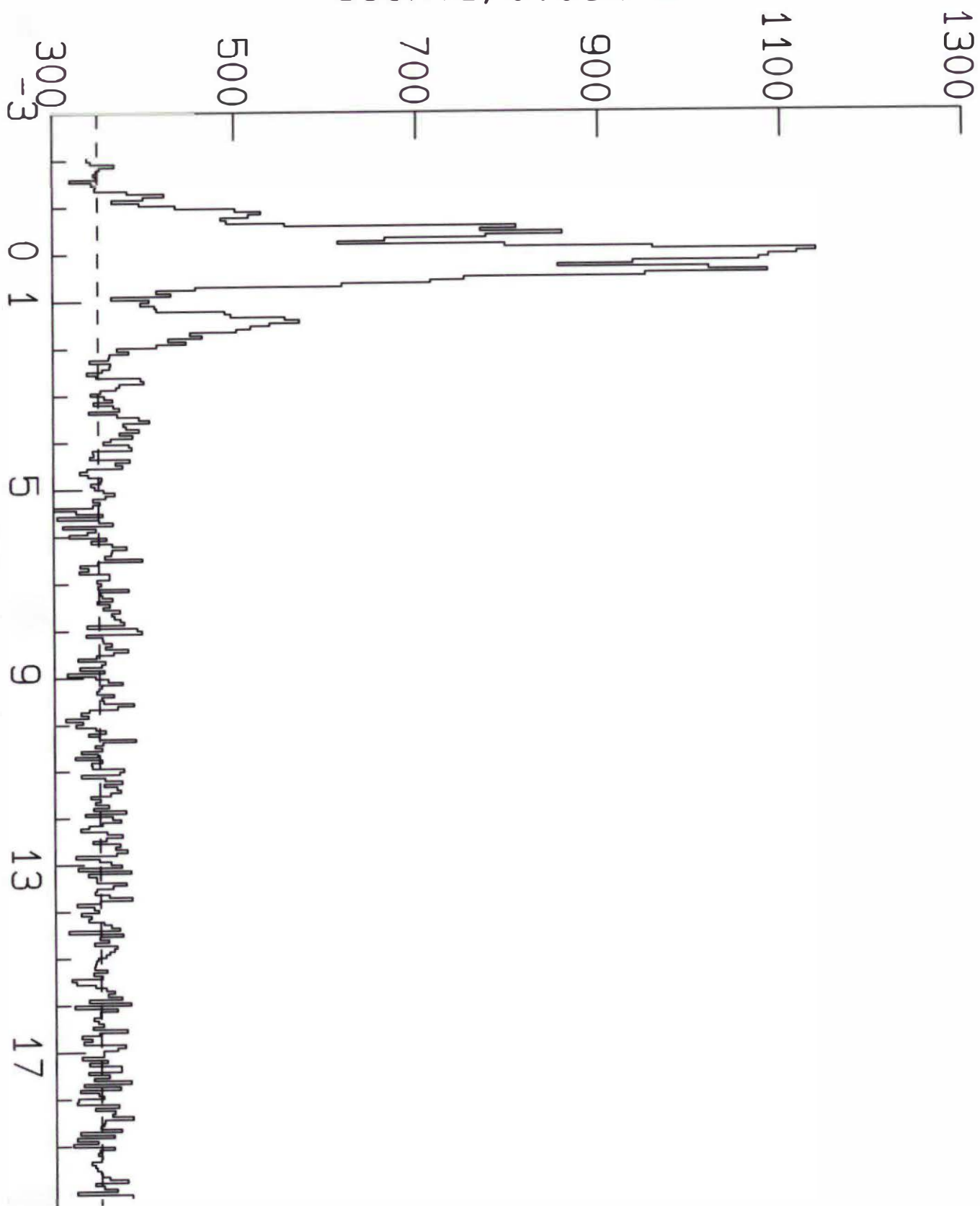
BATSE

26/07/95

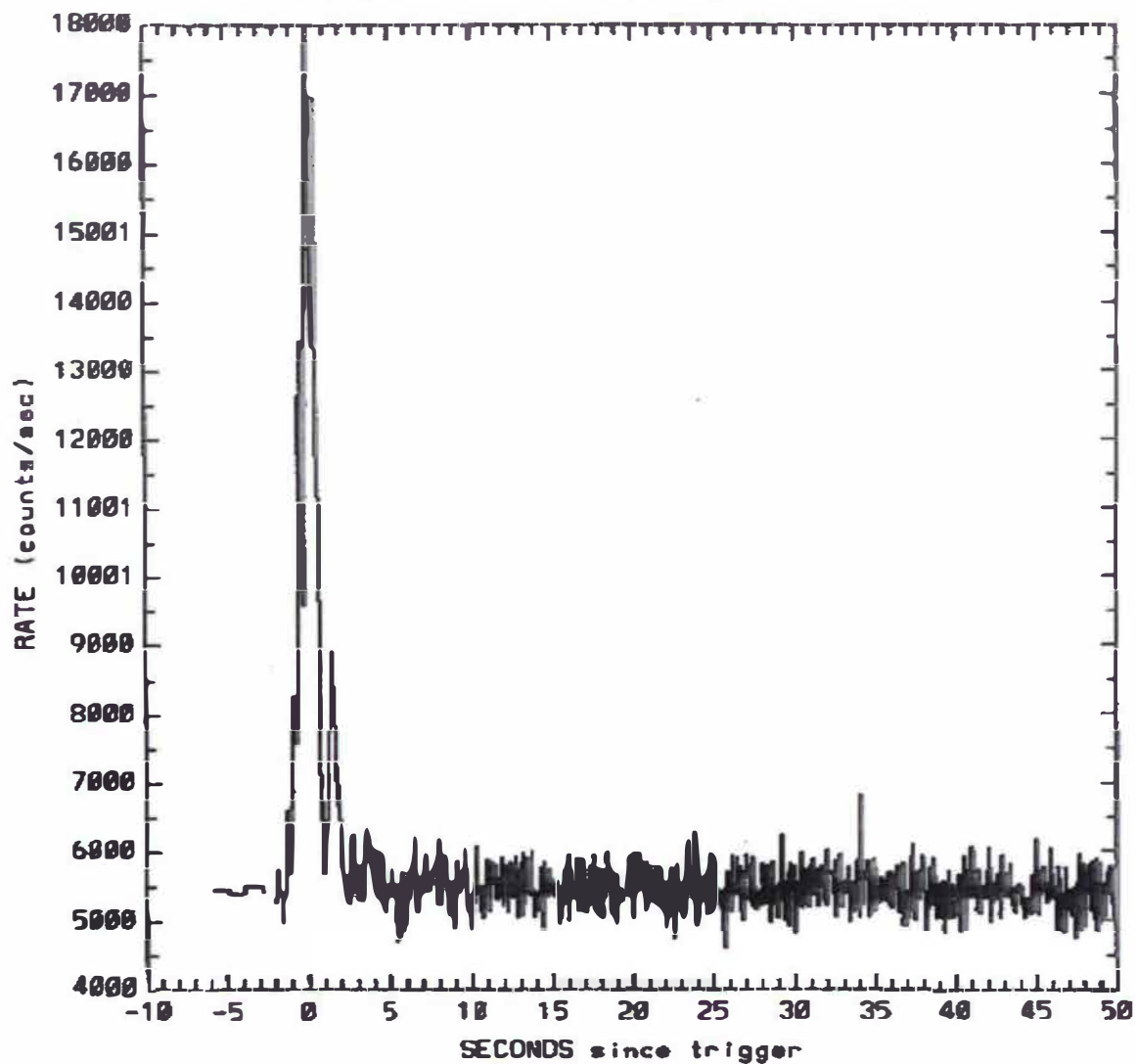
51578.290

25- 100 keV

COUNTS/0.064 S



DISCSC Data for K. Hurley. No. 3709



23-JUN-1997 16:26:17

Created by MDPS MD
 (Burst Display)
 Version 42.25

Trigger # = 3709

Trigger Time:
 9920 / 51578.290

Burst Data Type:
 DISCSC

Deadtime
 Corrected: N

Background Data
 Type: PREB + DISCLA

Minimum (Integ. Time:
 0.064 seconds)

Detectors (7..0).
 -6---2--

Discriminators:
 (1 , 2)

Quality Mask:
 BDISP1

From RICHARDSON@SSLLES.MSFC.NASA.GOV Fri Jul 28 11:22 PDT 1995
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
Date: Fri, 28 Jul 1995 13:22:14 -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
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3710

TIME: TJD=9924 SECONDS=63845

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

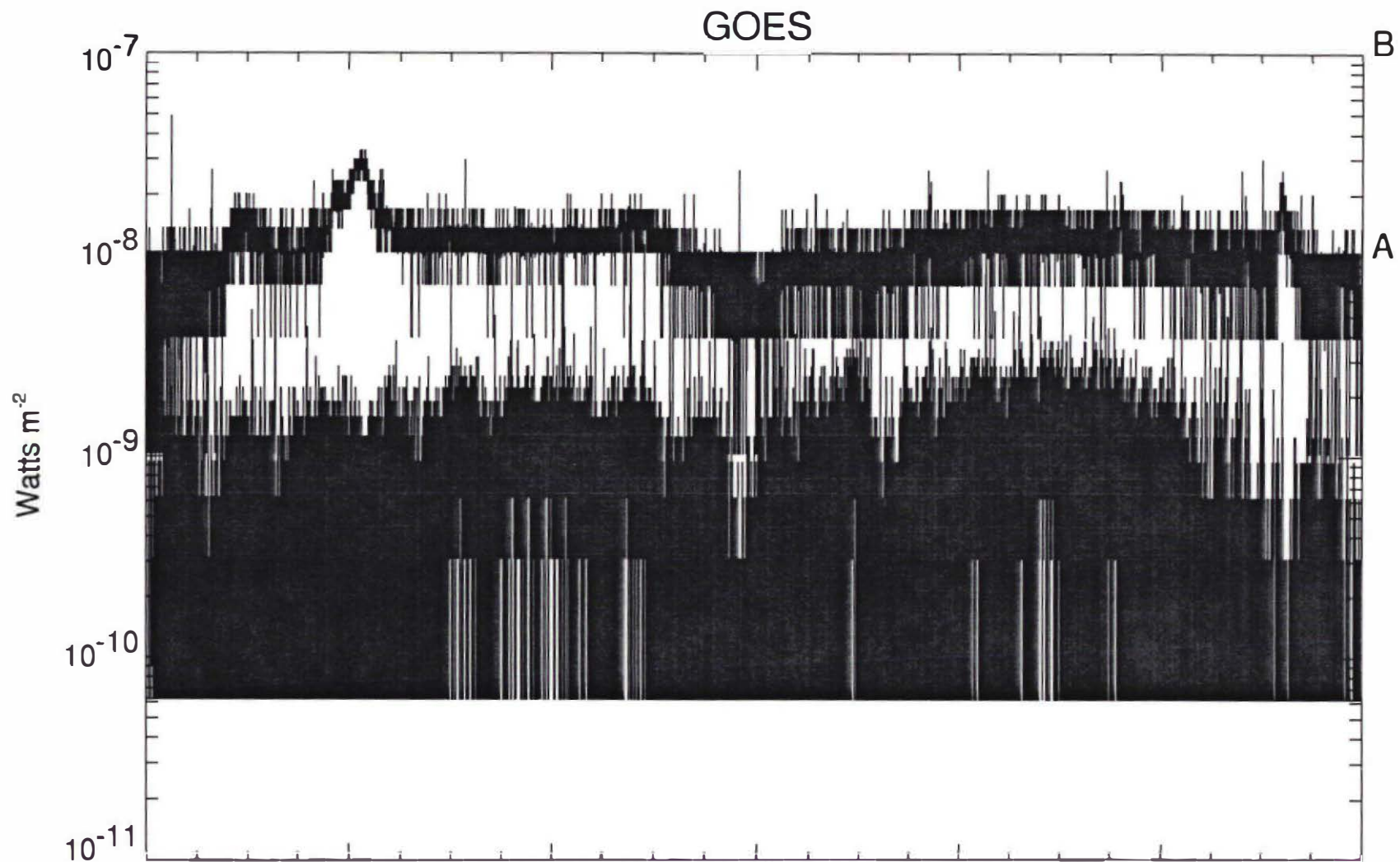
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=74.0 AZIMUTH=146.6 ERROR=19.4 DEGREES

COMMENTS:

CYG X-1 WEAK SINGLE PULSE. DUR.~2SEC.



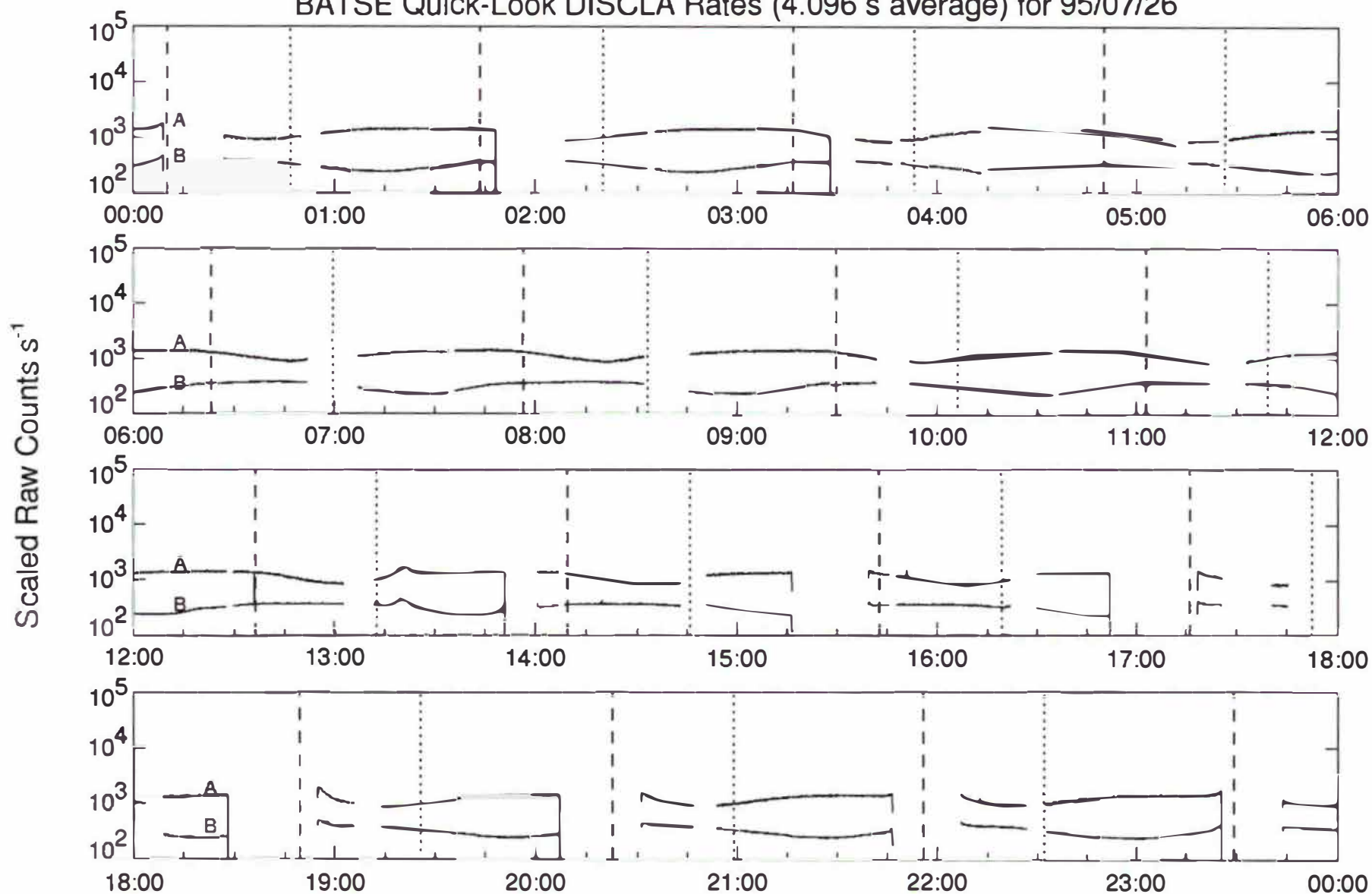
Data Start: 95/07/26, 0000:01

Plot created: 95/08/07, 1415

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 95/07/26



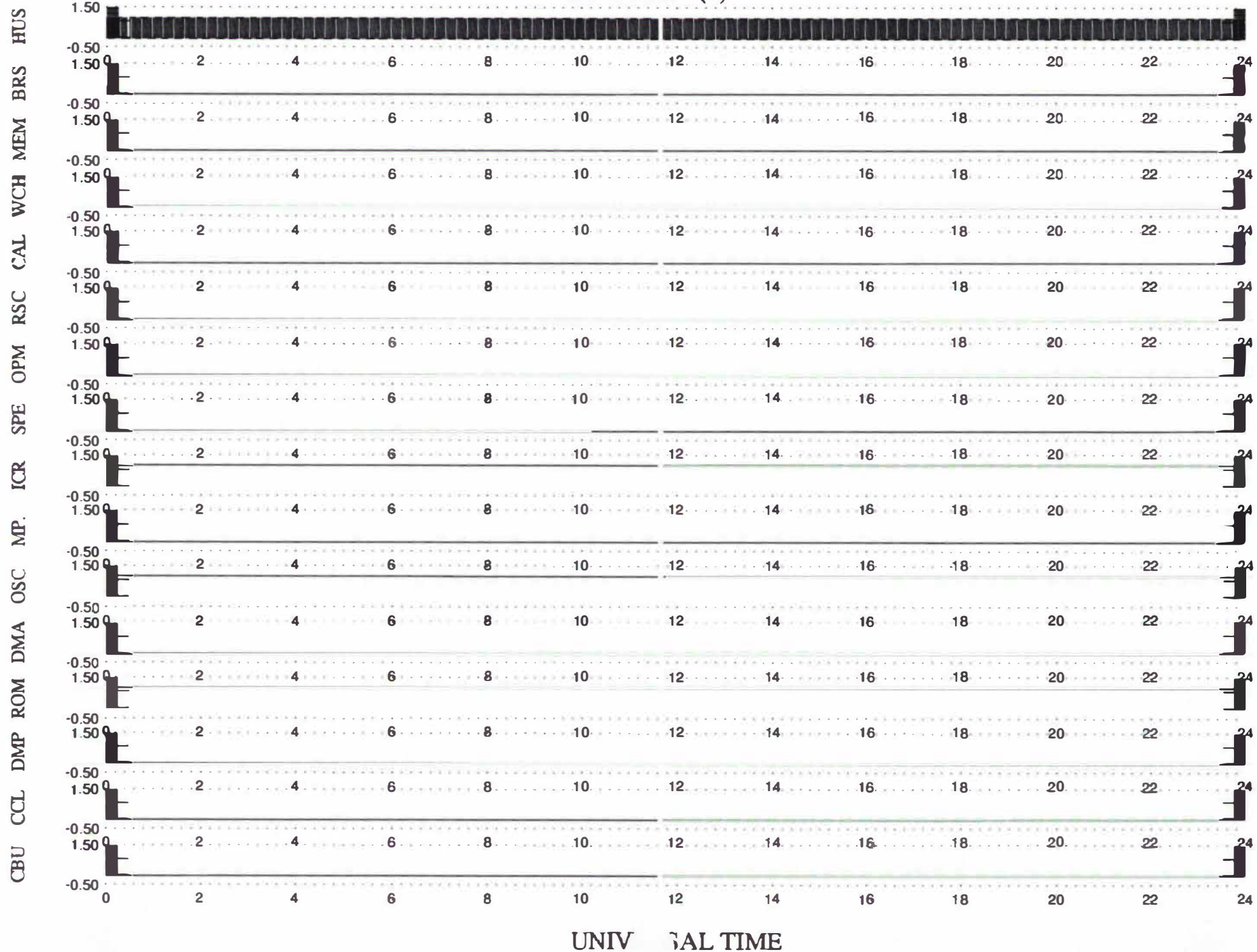
Current Time: 95/07/28, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

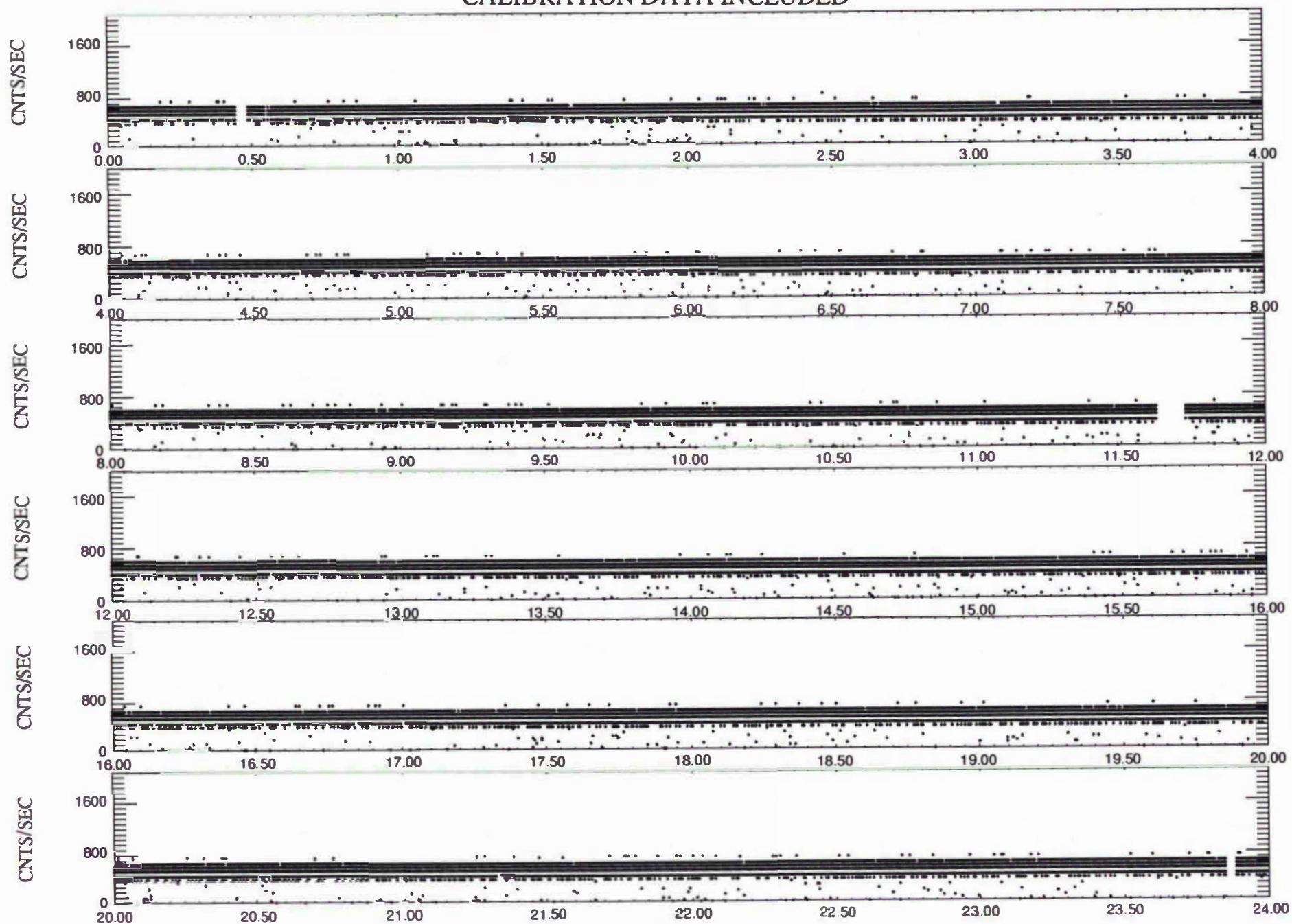
HUS MODES EDR day 207, year 1995 to day 207, year 1995
NO BURST (7)

1/25/96

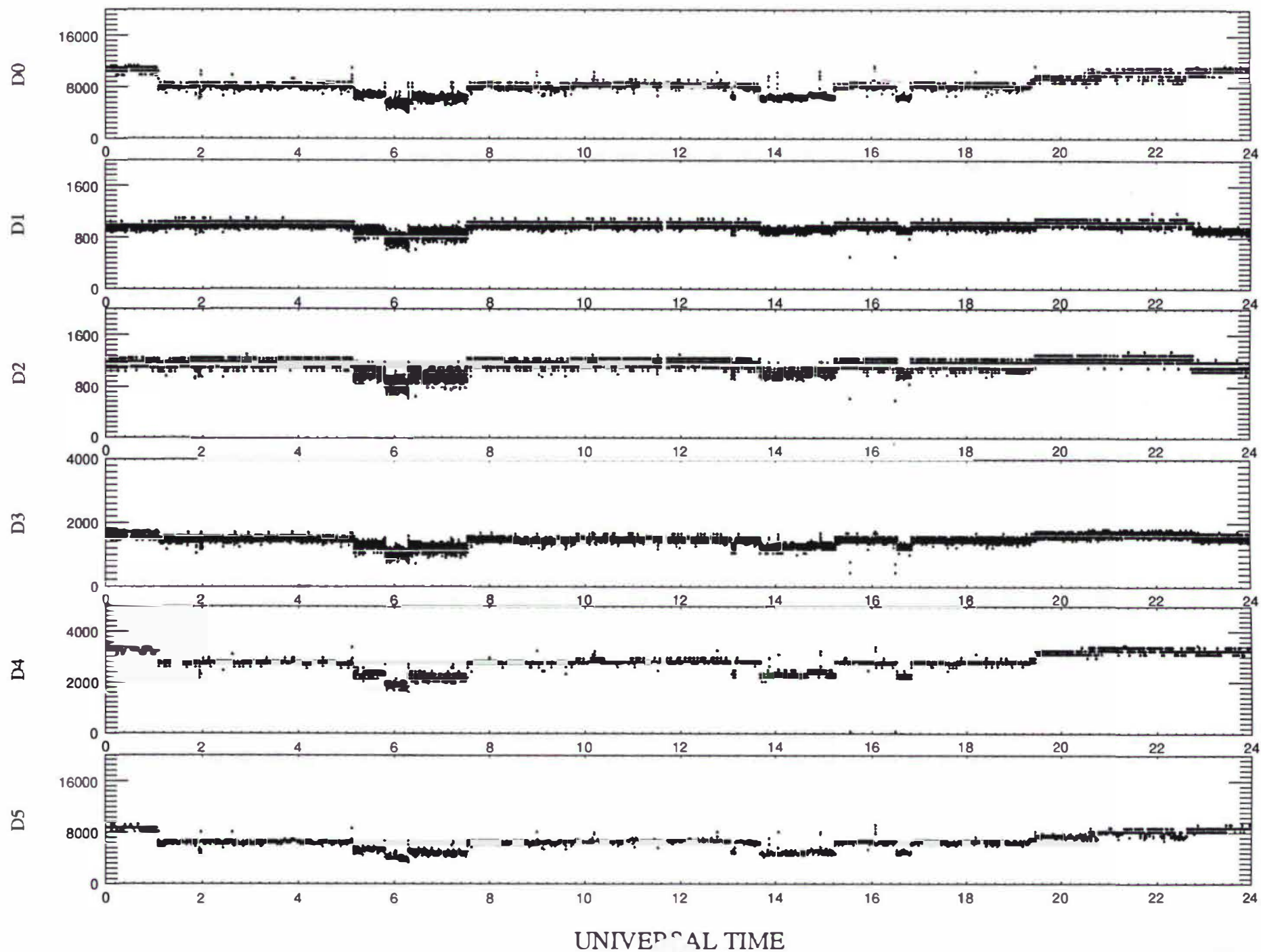


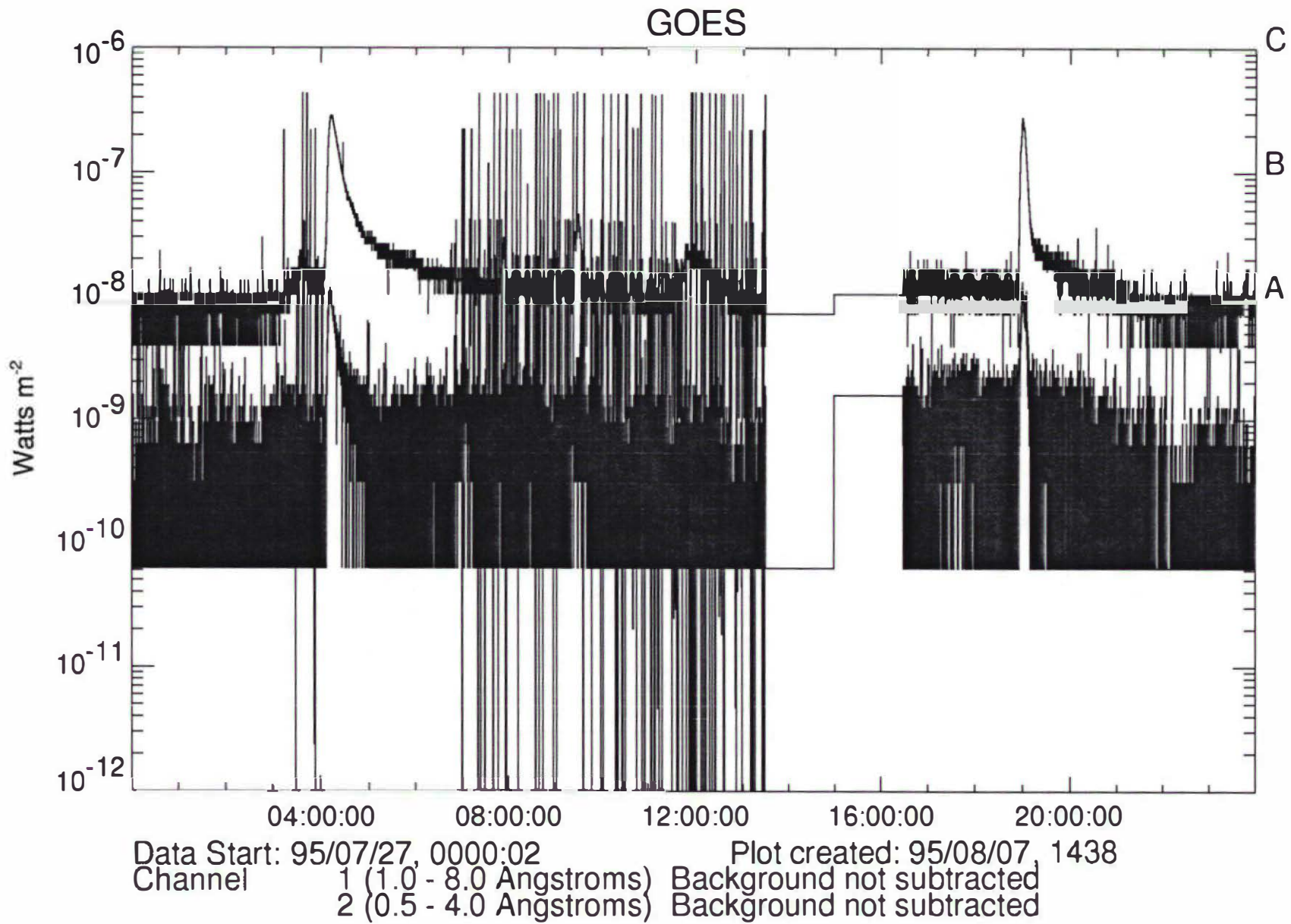
HUS 2A, MODE 1, NOT AVERAGED EDR day 207, year 1995 to day 207, year 1995
CALIBRATION DATA INCLUDED

1/25/96



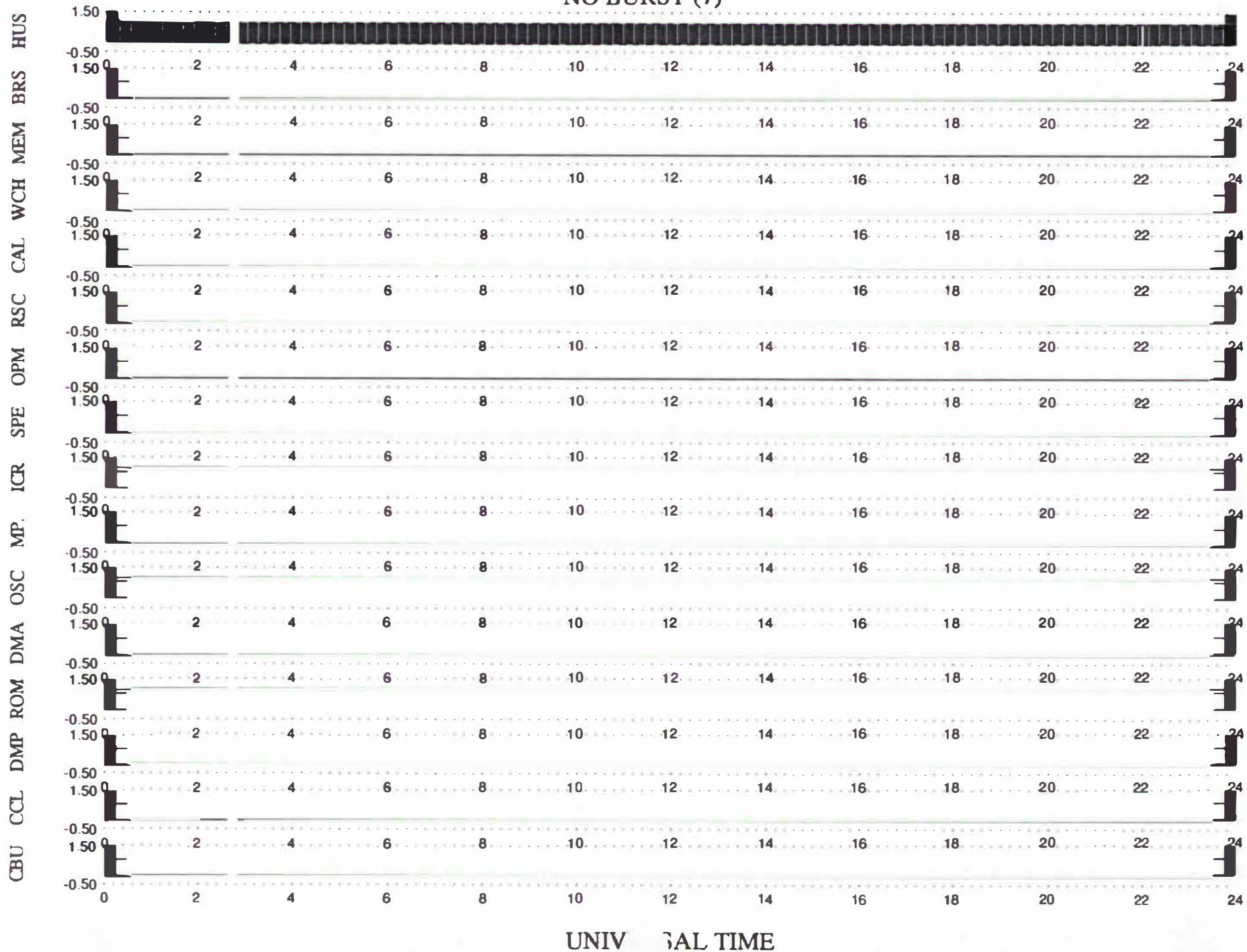
UNIV. TIME





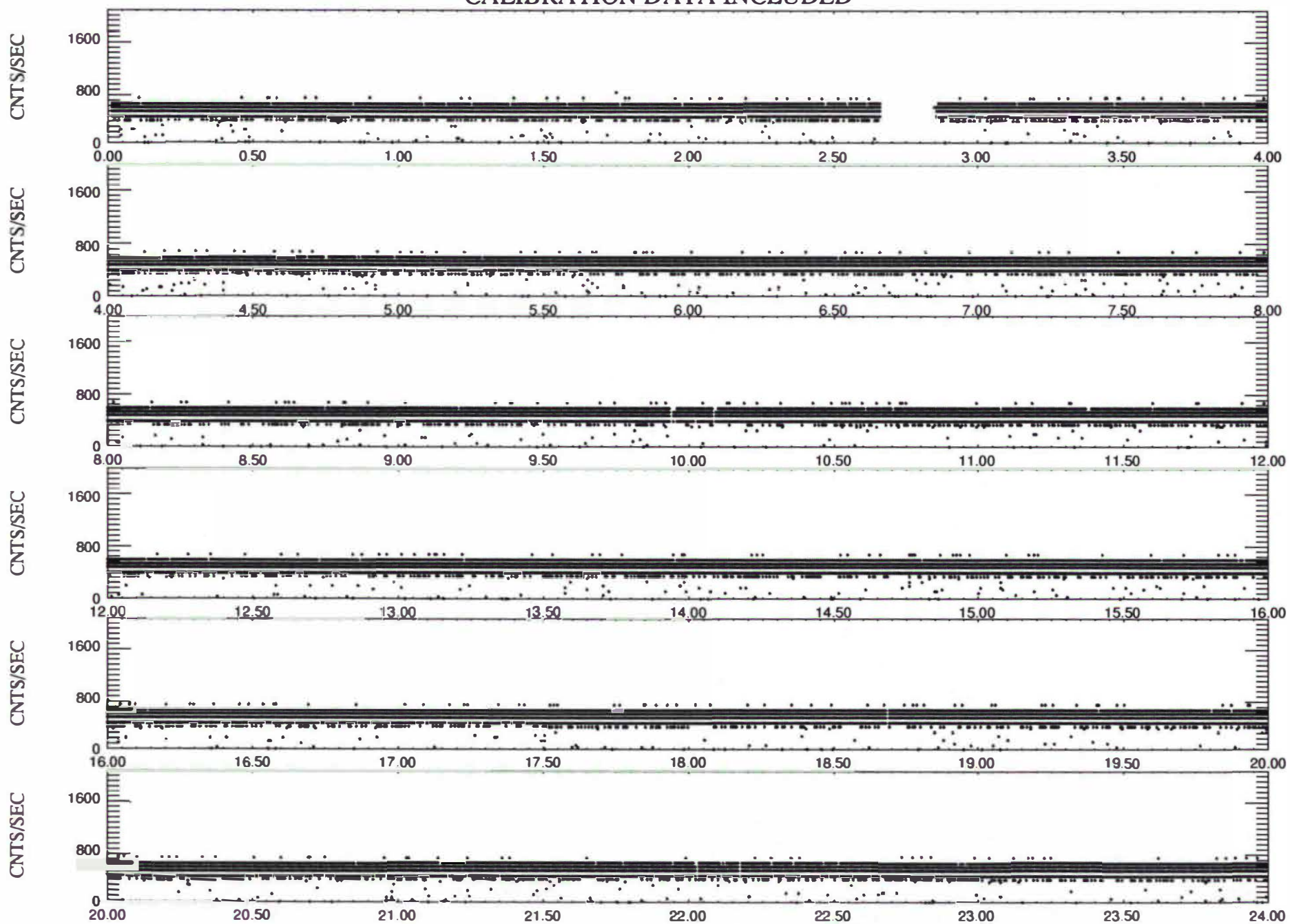
day 208, year 1995 to day 208, year 1995
NO BURST (7)

1/25/96

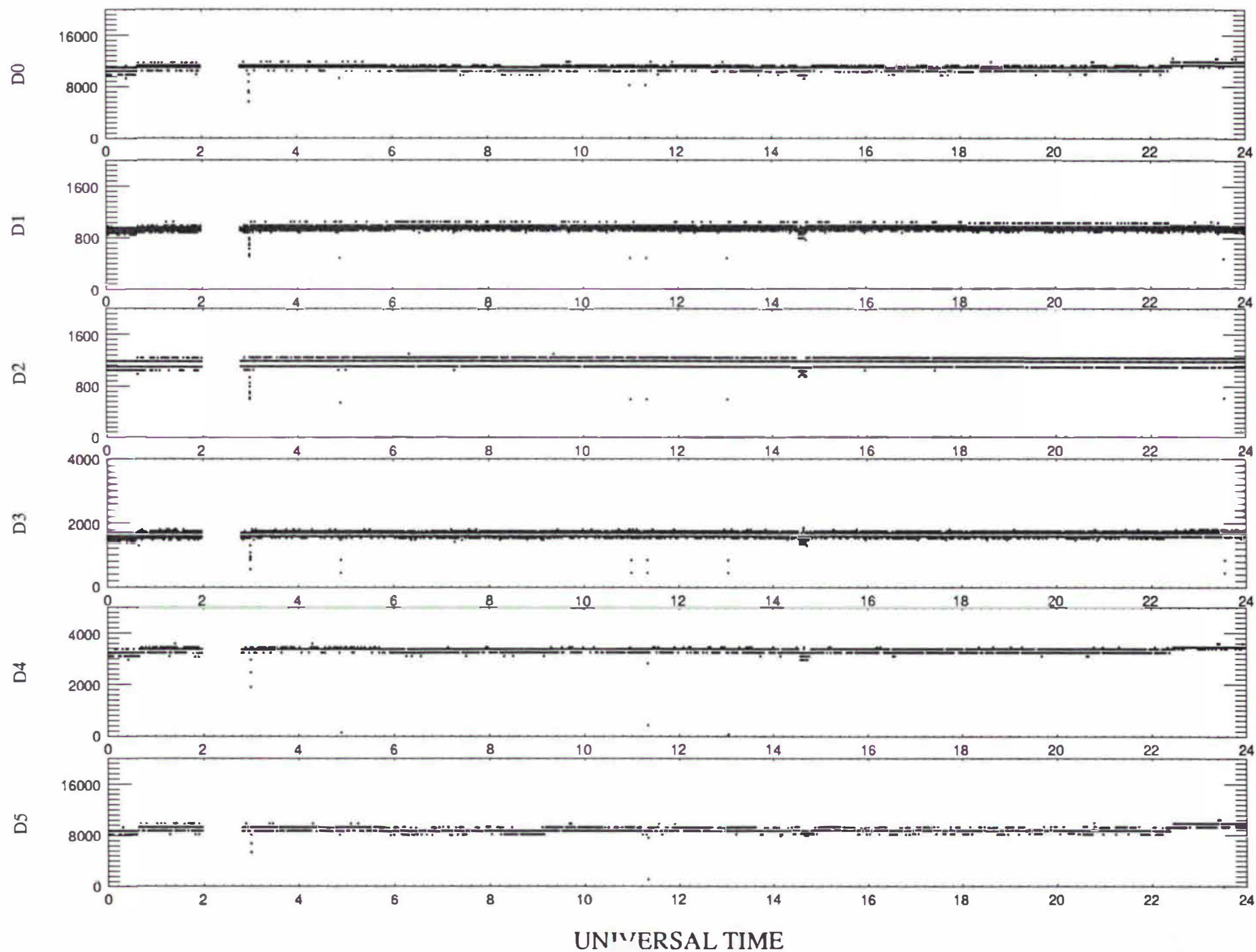


HUS 2A, MODE 1, NOT AVERAGED EDR day 208, year 1995 to day 208, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



From RICHARDSON@ssl.msfc.nasa.gov Mon Jul 31 13:04 PDT 1995
From: RICHARDSON@ssl.msfc.nasa.gov
Date: Mon, 31 Jul 1995 15:04:18 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3711

BATSEARCH PROGRAM

BATSE BURST # 3711
EVENT OF 1995 JUL 28 DAY OF YEAR=209
EVENT CROSSING TIME AT BATSE : 32614. S. OR 09:03:34.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 184.000 -46.000
BATSE PEAK COUNTING RATE: 6500 C/S

NO

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 28/ 7/ 95 IS:
RA= 127.005 DEC= 83.088 DIST= 2.221 AU
BATSE-ULYSSES DISTANCE = 332313454. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=139.43 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -842.05 SECS.
CROSSING TIME AT ULYSSES IS 31772. S. OR 08:49:31 +/- 162.37 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 28/ 7/ 95 IS:
RA= 183.739 DEC= -1.258 DIST= 1.833 AU
MARS-BATSE DISTANCE = 274198144. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=132.74 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -620.75 SECS.
CROSSING TIME AT MARS IS 31993. S. OR 08:53:13 +/- 107.19 SECONDS

BATSE BURST TRIGGER

NO.: 3711

TIME: TJD=9926 SECONDS=32614

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

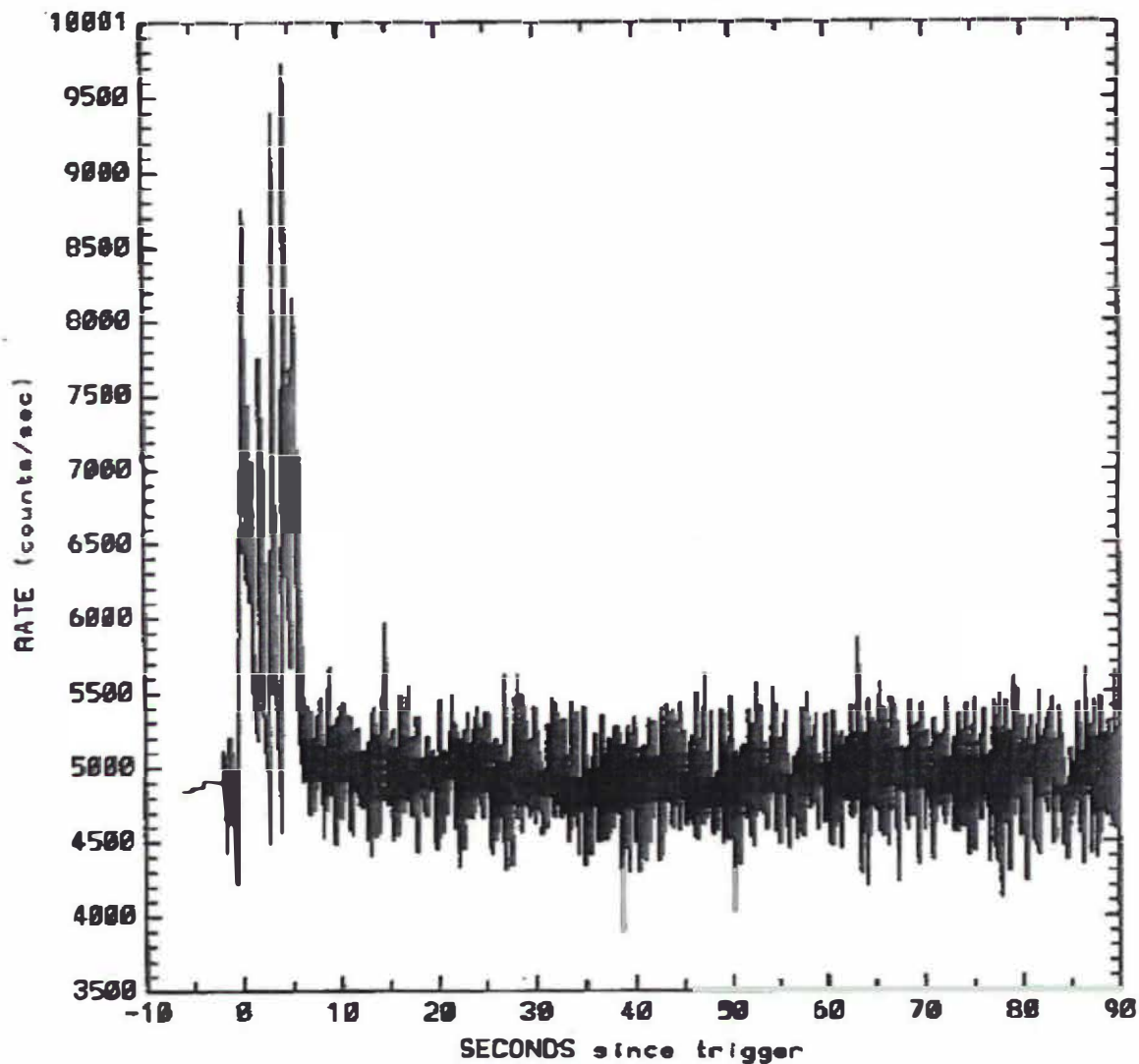
LOCATION: ZENITH=145.0 AZIMUTH=291.9 ERROR=2.8 DEGREES

COMMENTS:

GRB, VERY SPIKEY, DUR.~8SEC. NOT VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3711	950728	9926	32614	6500	184	+46	8

DISCSC Data for K. Hurley, No. 3711



4-AUG-1995 09:49:55

Created by NUPS BD
(Burst Display)
Version 12.25

Trigger = 3711

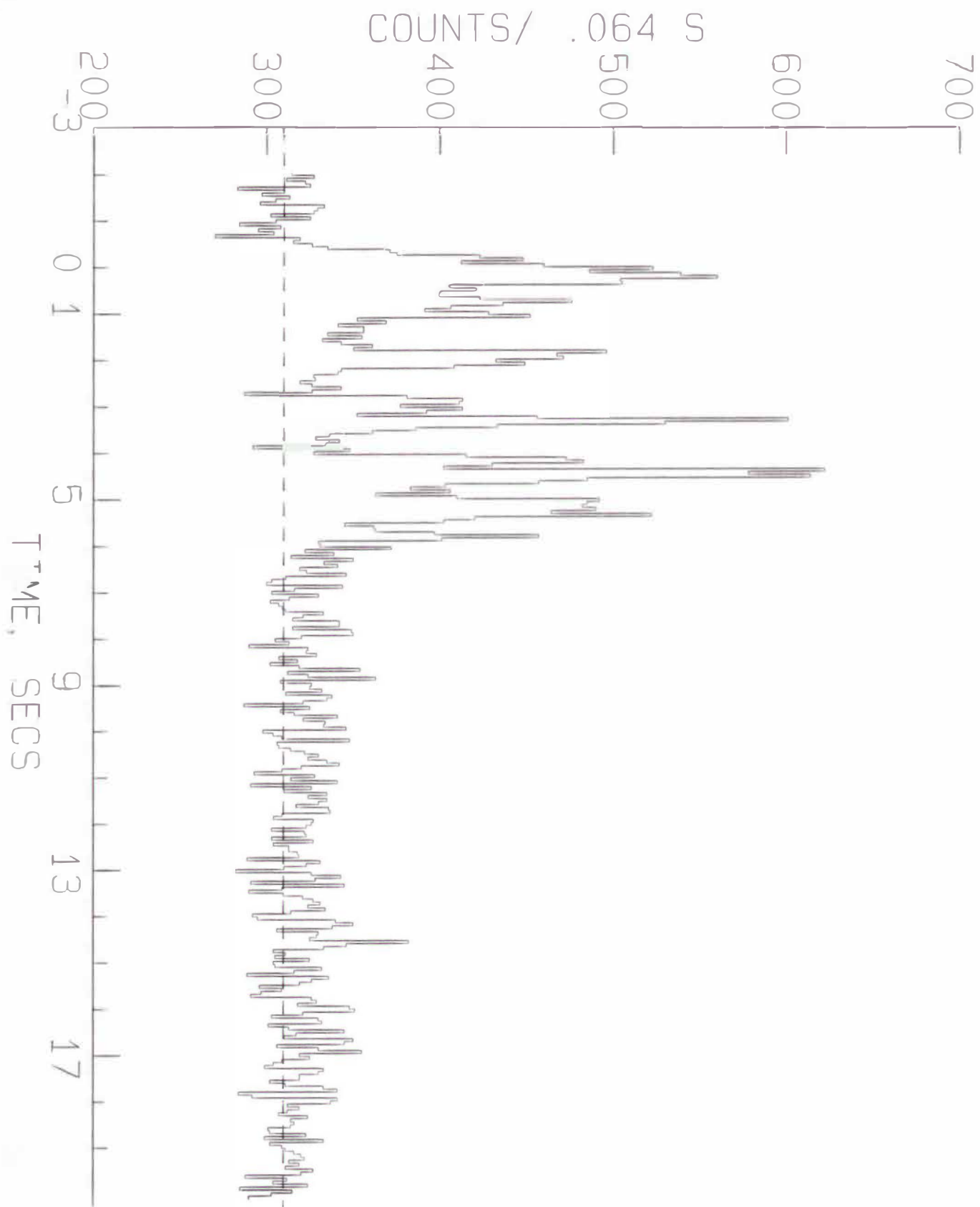
Trigger Time:
0926 / 32616.866Burst Data Type:
DISCSCDeadtime
Corrected: NBackground Data
Type: PREB + DISCLAMinimum Integ. Time:
0.064 secondsDetectors [7..0],
7---3---Discriminators:
(1, 2)Quality Mask:
BDISP1

BATSE

28/07/95

32614.066

25- 100 keV



ULYSSES RT

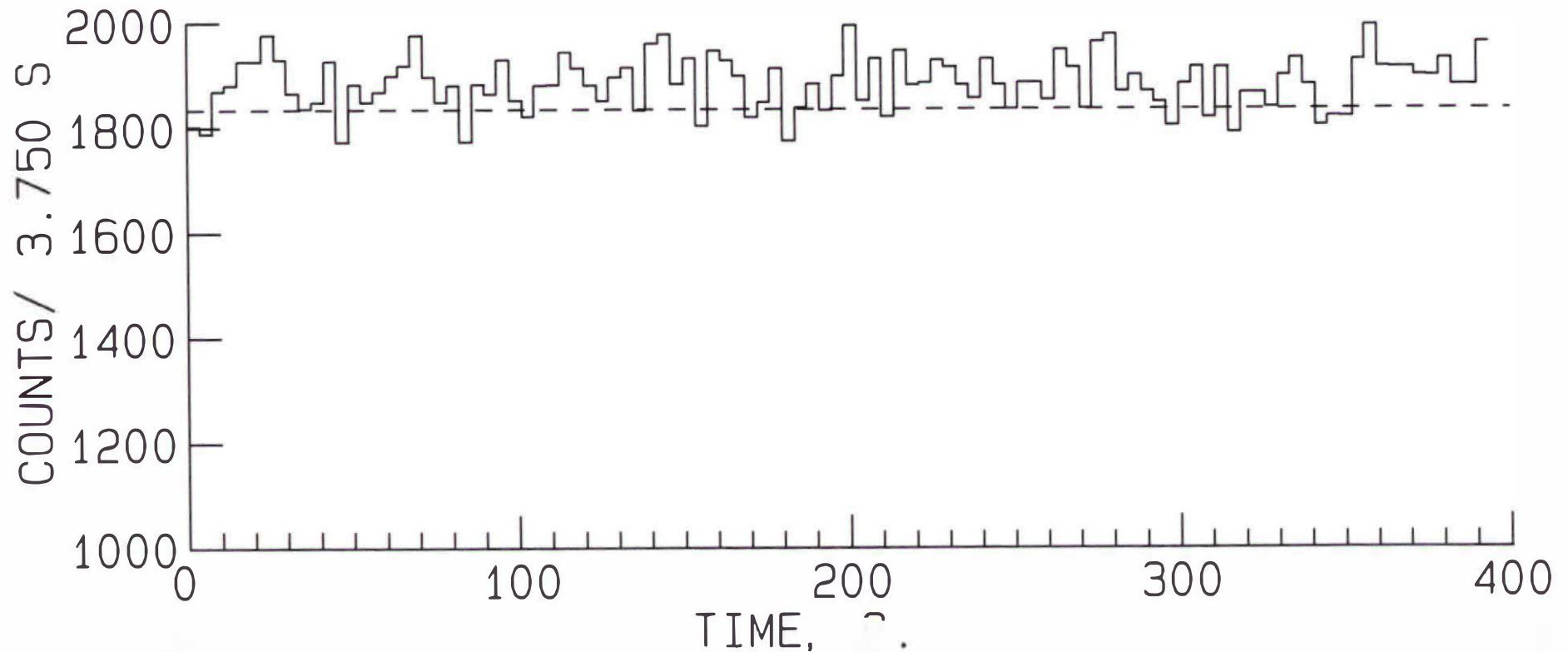
20 / 6 / 97

28 / 7 / 95 33156.042 s

0.250 S INTERVALS REGROUPED BY 15

** - **** keV

N= 10 M= 1
>3.5 SIGMA FLUCTUATIONS



BATSE BURST# 3711

ULYSSES RT

17 / 6 / 97

28 / 7 / 95 33156.043 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

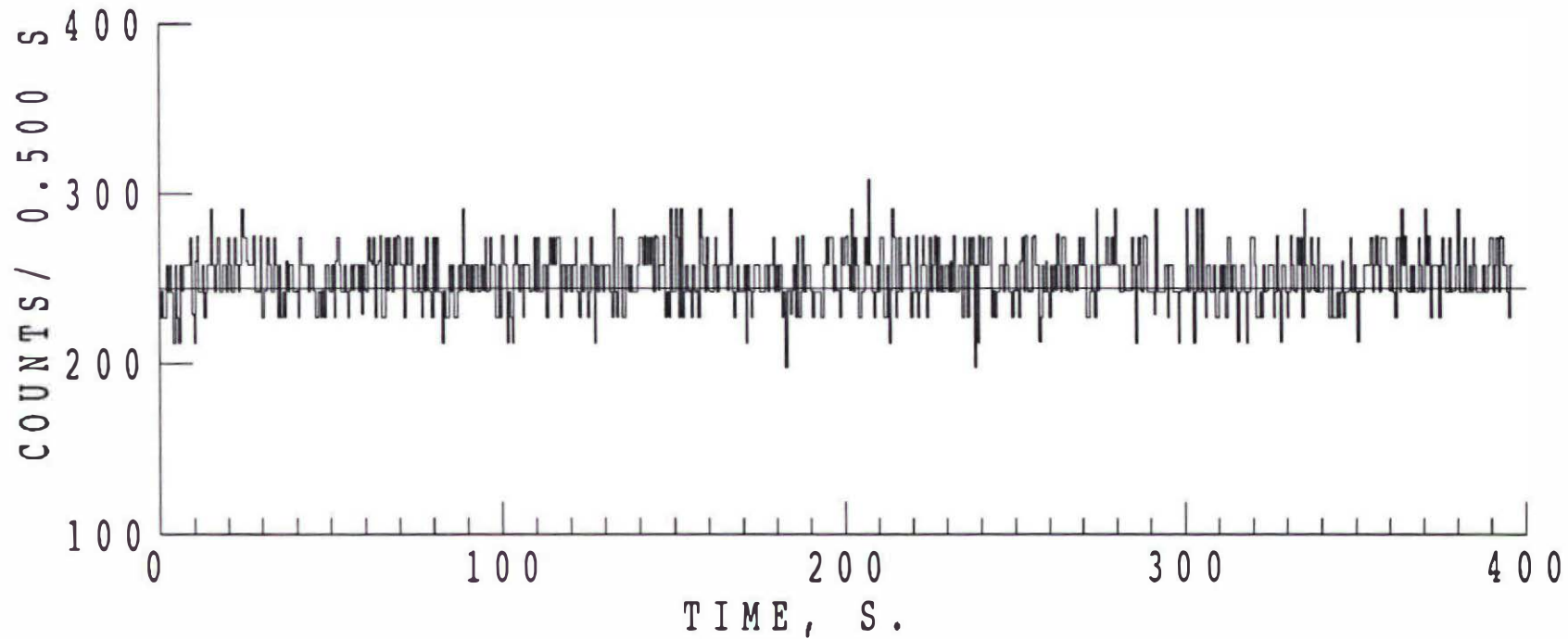
New window

N= 10 M=10

>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



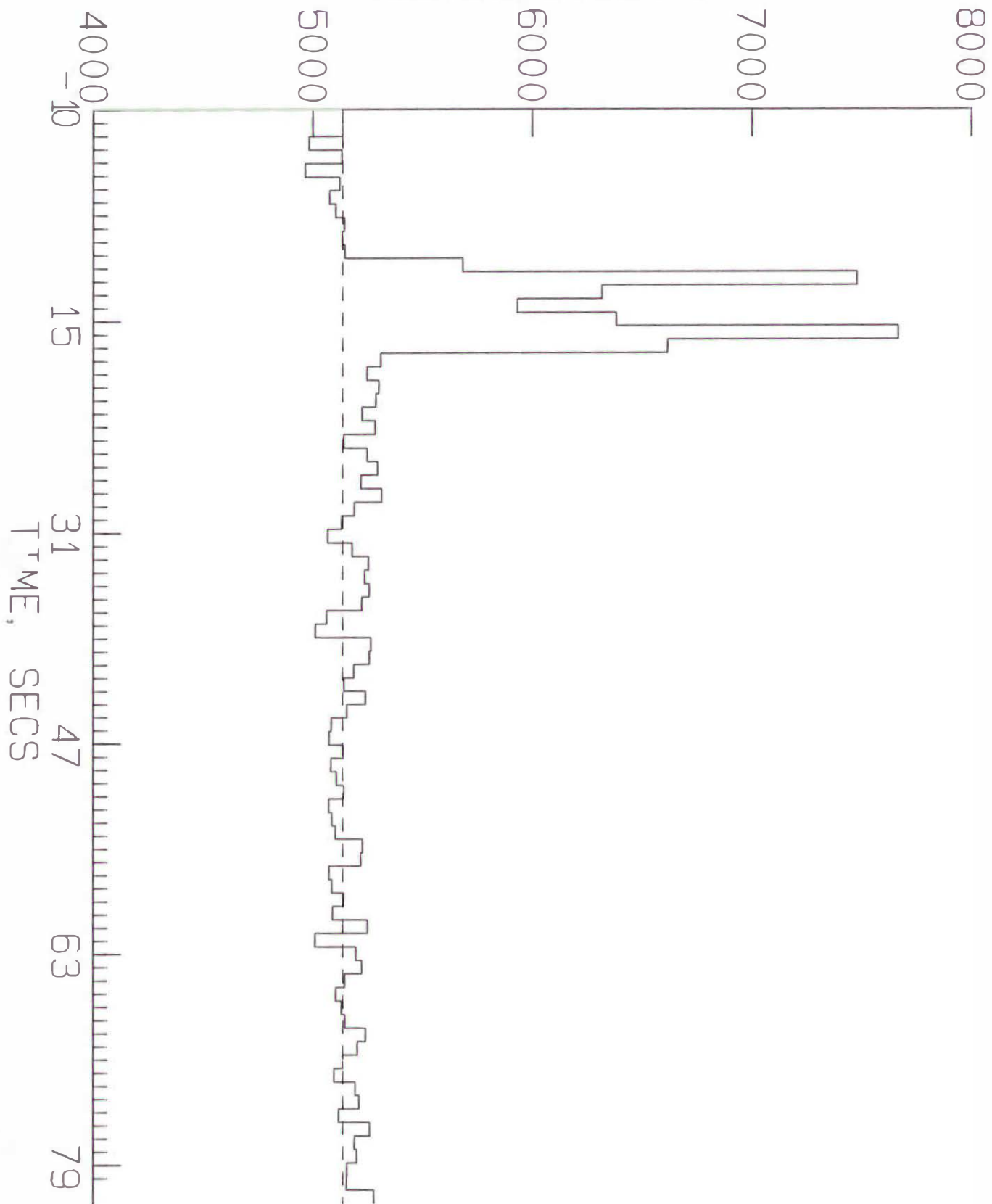
BACODINE

28/07/95

32602.801

25- 100 keV

COUNTS/1.024 S



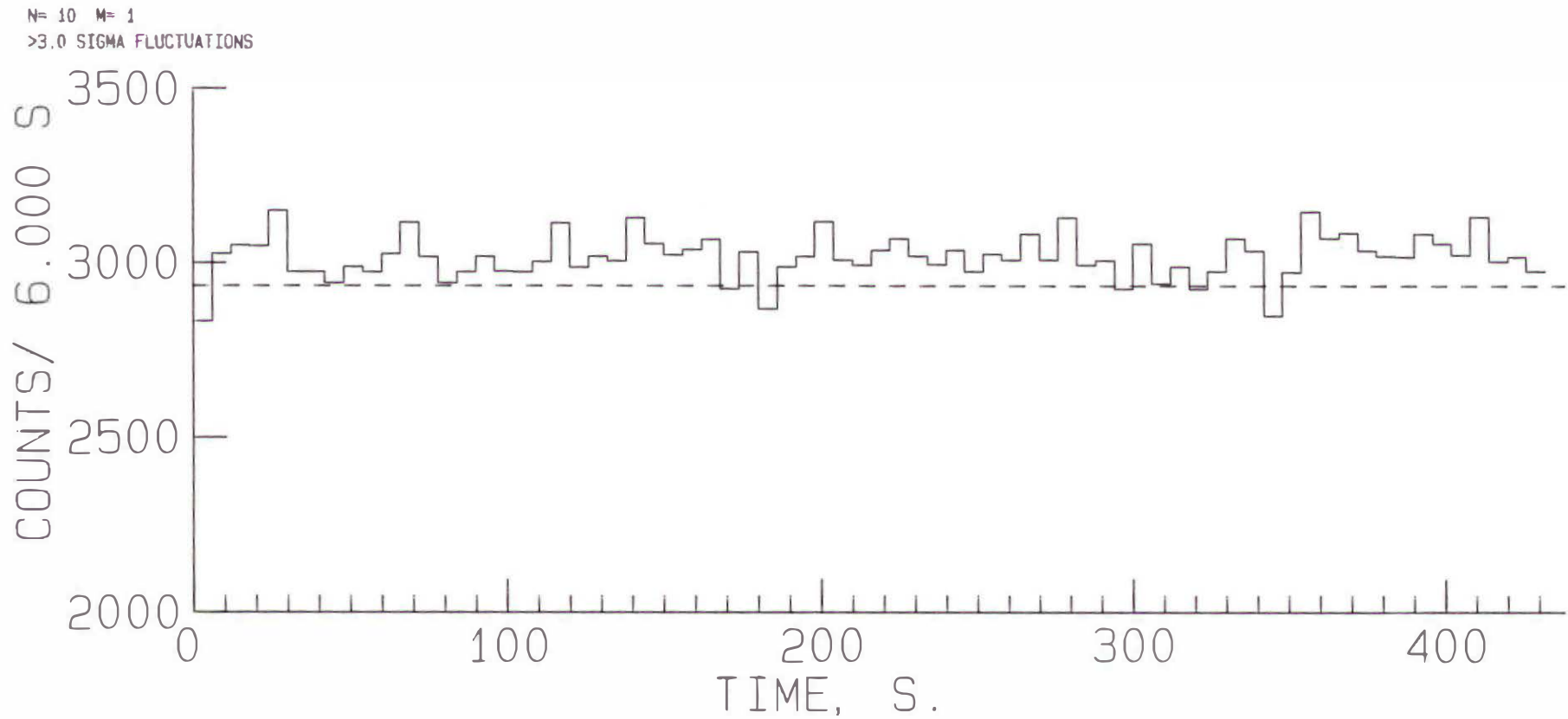
ULYSSES RT

31 / 7 / 95

28 / 7 / 95 33156.043 s

.250 S INTERVALS REGROUPED BY 24

21- 146 keV



From RICHARDSON@SSLLES.MSFC.NASA.GOV Tue Aug 1 09:21 PDT 1995
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
Date: Tue, 1 Aug 1995 11:20:57 -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@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3712

TIME: TJD=9926 SECONDS=40153

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=77.4 AZIMUTH=164.0 ERROR=9.1 DEGREES

COMMENTS:

CYG X-1 OCCURED DURING HIGH PARTICLE ACTIVITY. SPIKEY EVENT. DUR.~40SEC.
NOT VISIBLE ABOVE 300KEV. THE ABOVE ERROR IS THE STATISTICAL ERROR.
ADD 1.5 DEG FOR THE SYSTEMATIC ERROR.

KONUS

ULYSSES RT

25 / 01 / 00

28 / 07 / 95 44568.238 s

0.250 S INTERVALS REGROUPED BY 7

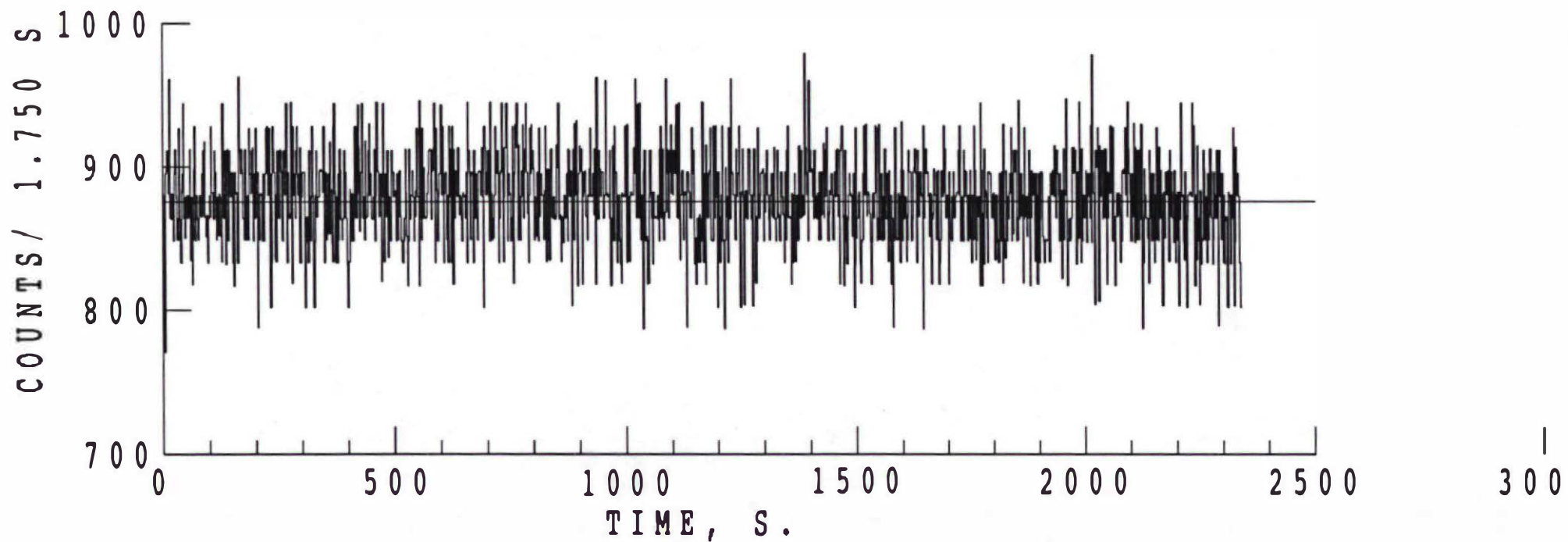
0 - 0 keV

N= 10 M= 10

>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS

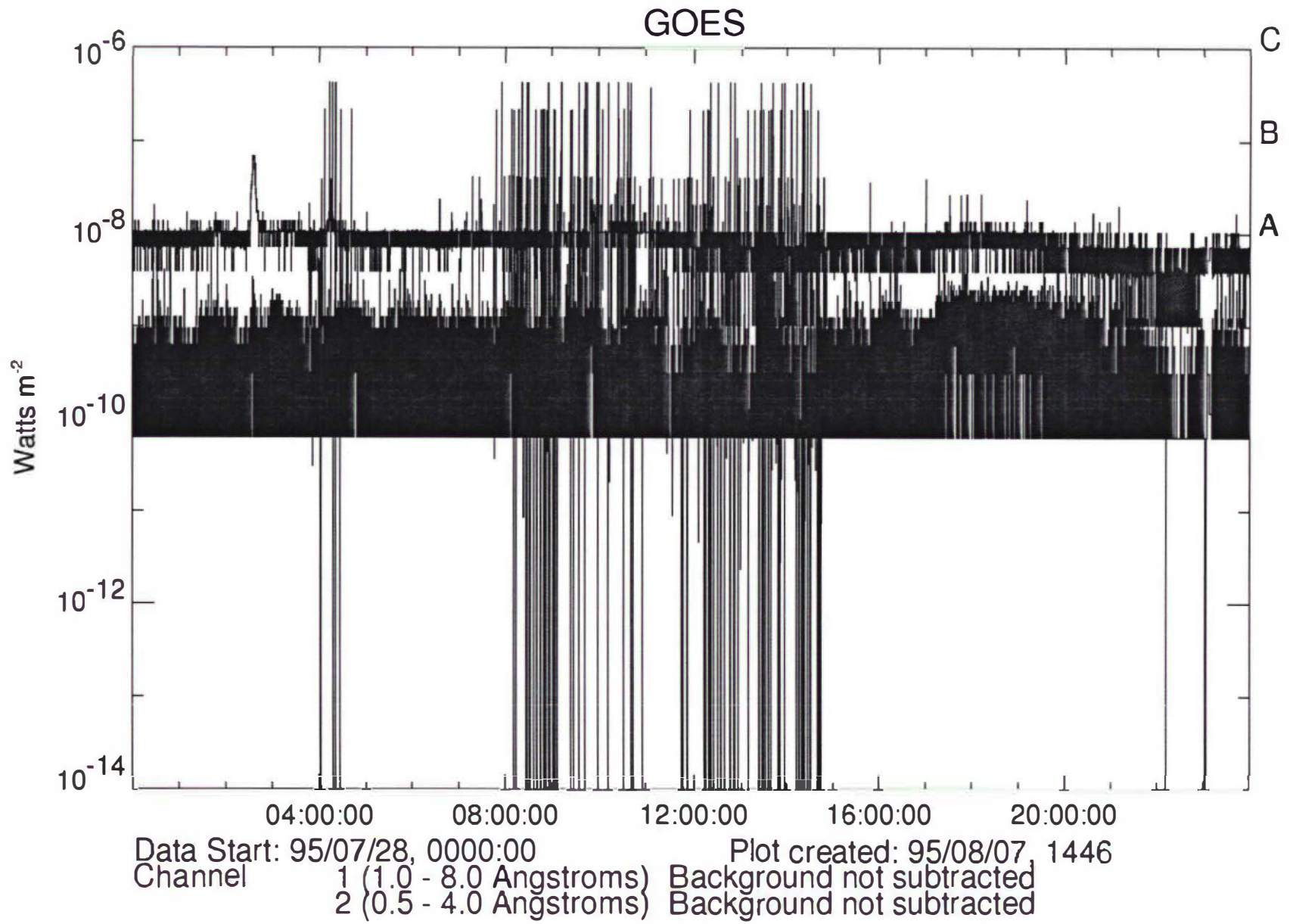


M

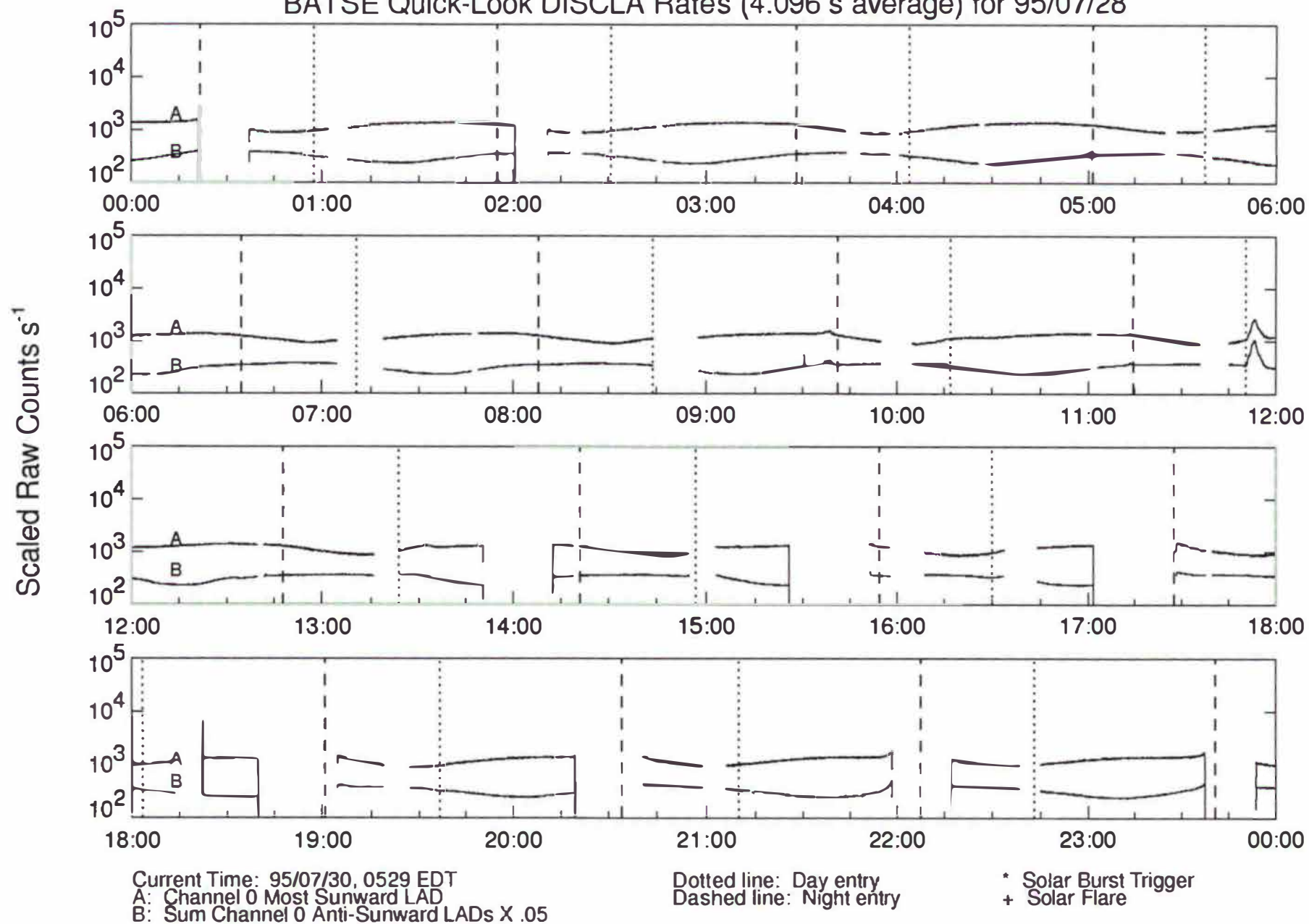
C

B

A

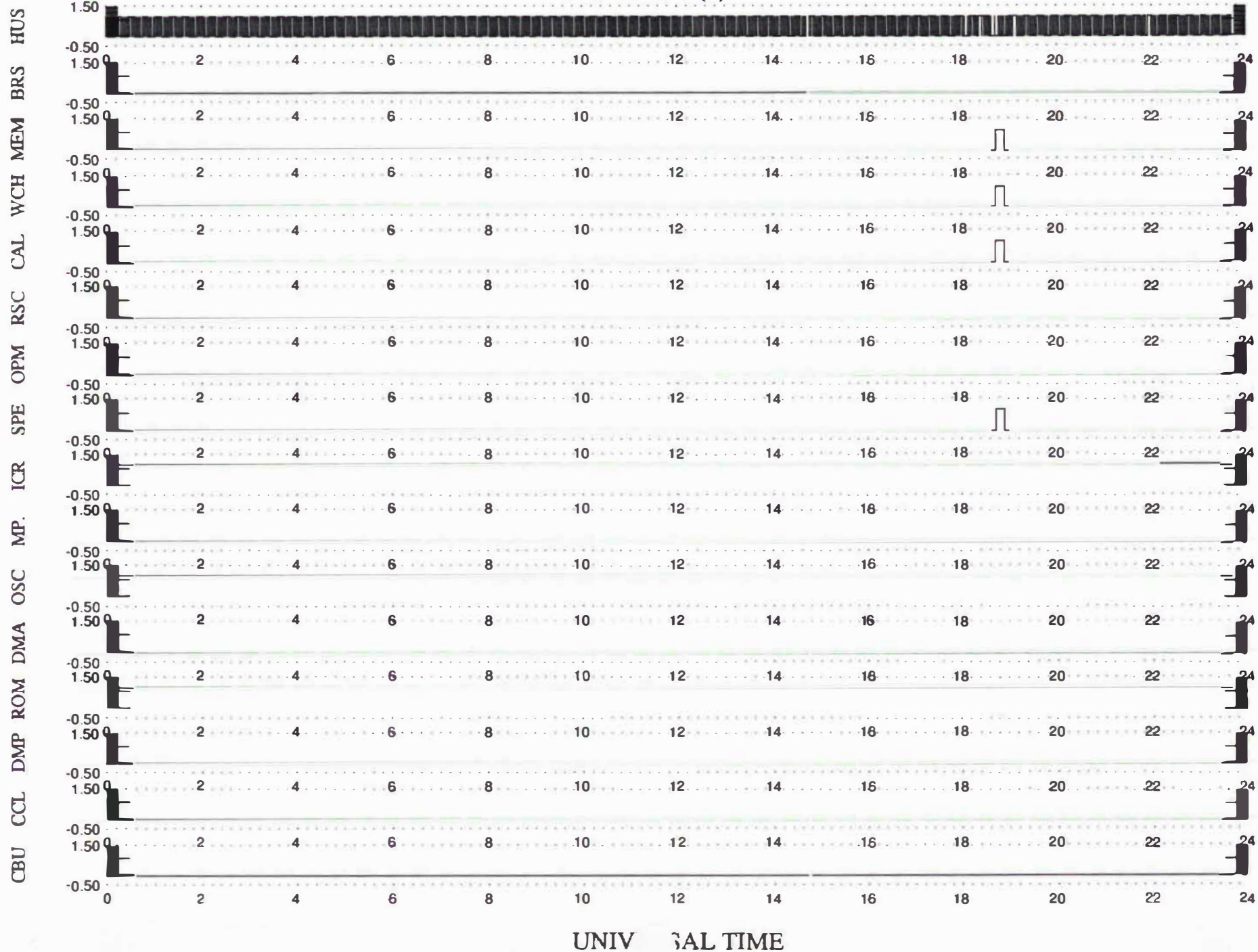


BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/28



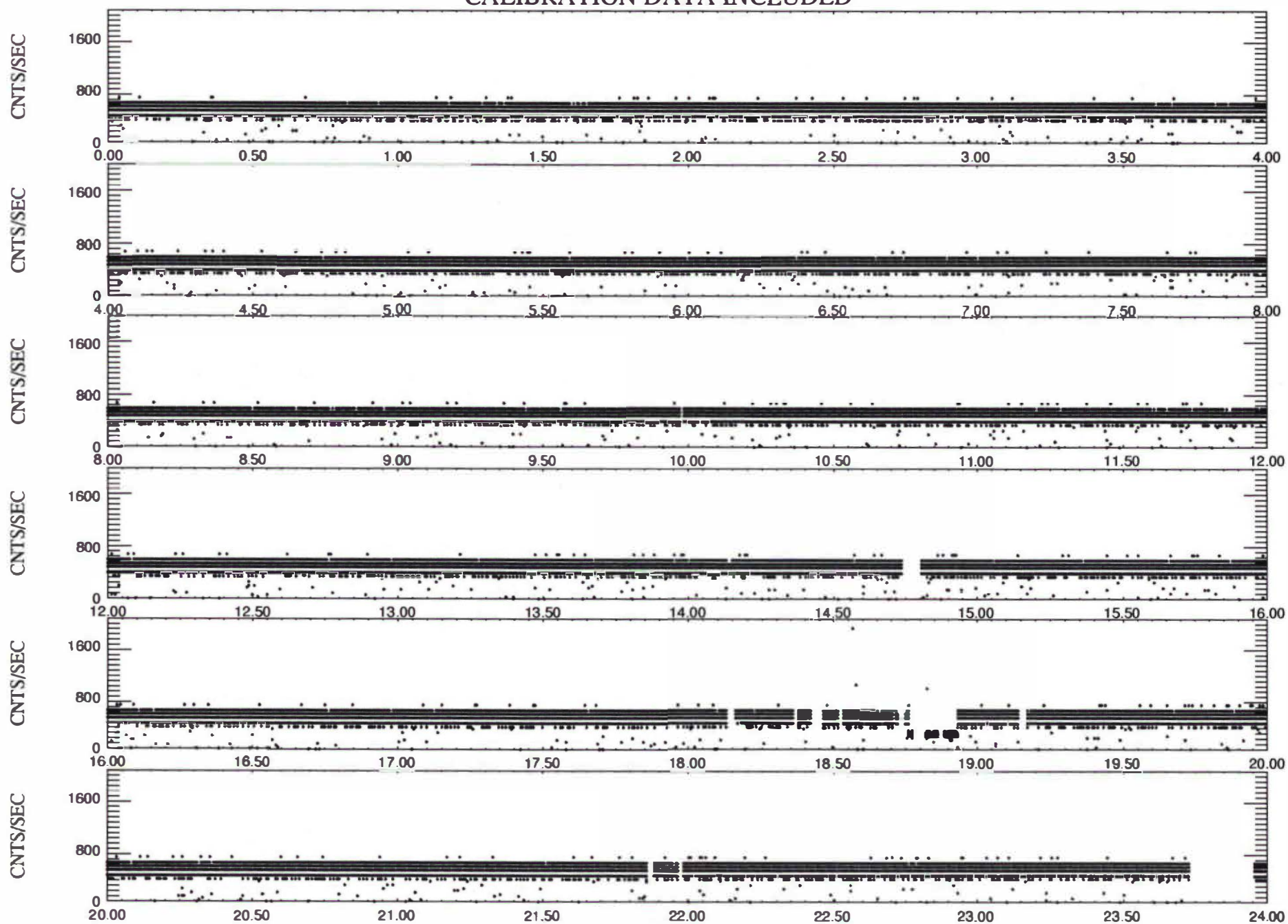
HUS MODES EDR day 209, year 1995 to day 209, year 1995
NO BURST (7)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 209, year 1995 to day 209, year 1995
CALIBRATION DATA INCLUDED

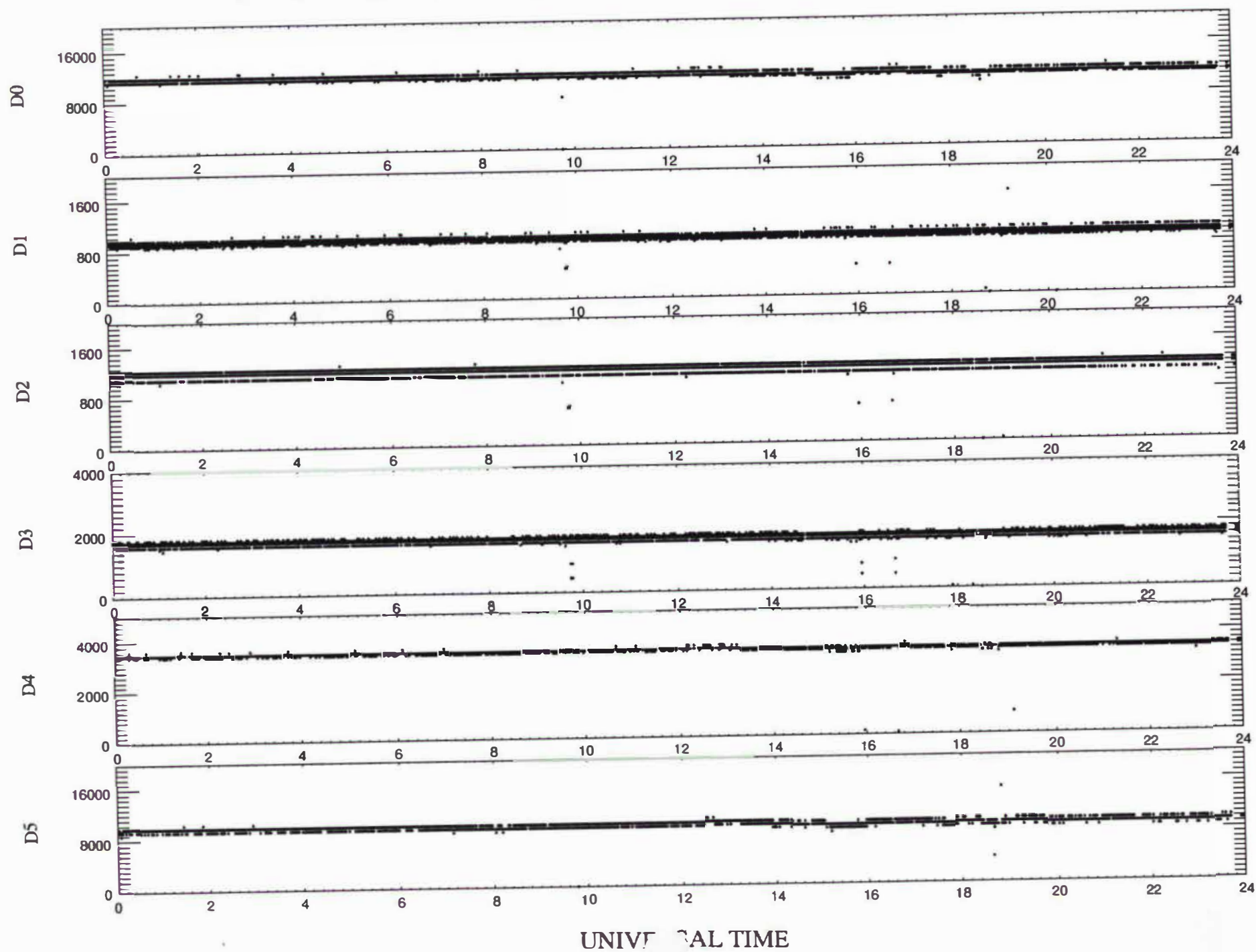
1/25/96



UNIV SAL TIME

HUS 2B COUNTS / SEC QEDR day 209, year 1995 to day 209, year 1995

7/31/95



From HAGEDON@fender.msfc.nasa.gov Mon Jul 31 09:51 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 31 Jul 1995 11:45:35 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3713

TIME: TJD=9927 SECONDS=07069

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION. DUR.~4 SEC. NOT VISIBLE ABOVE 300 KEV.

From HAGEDON@fender.msfc.nasa.gov Mon Jul 31 07:06 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 31 Jul 1995 9:05:54 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3714

TIME: TJD=9927 SECONDS=39972

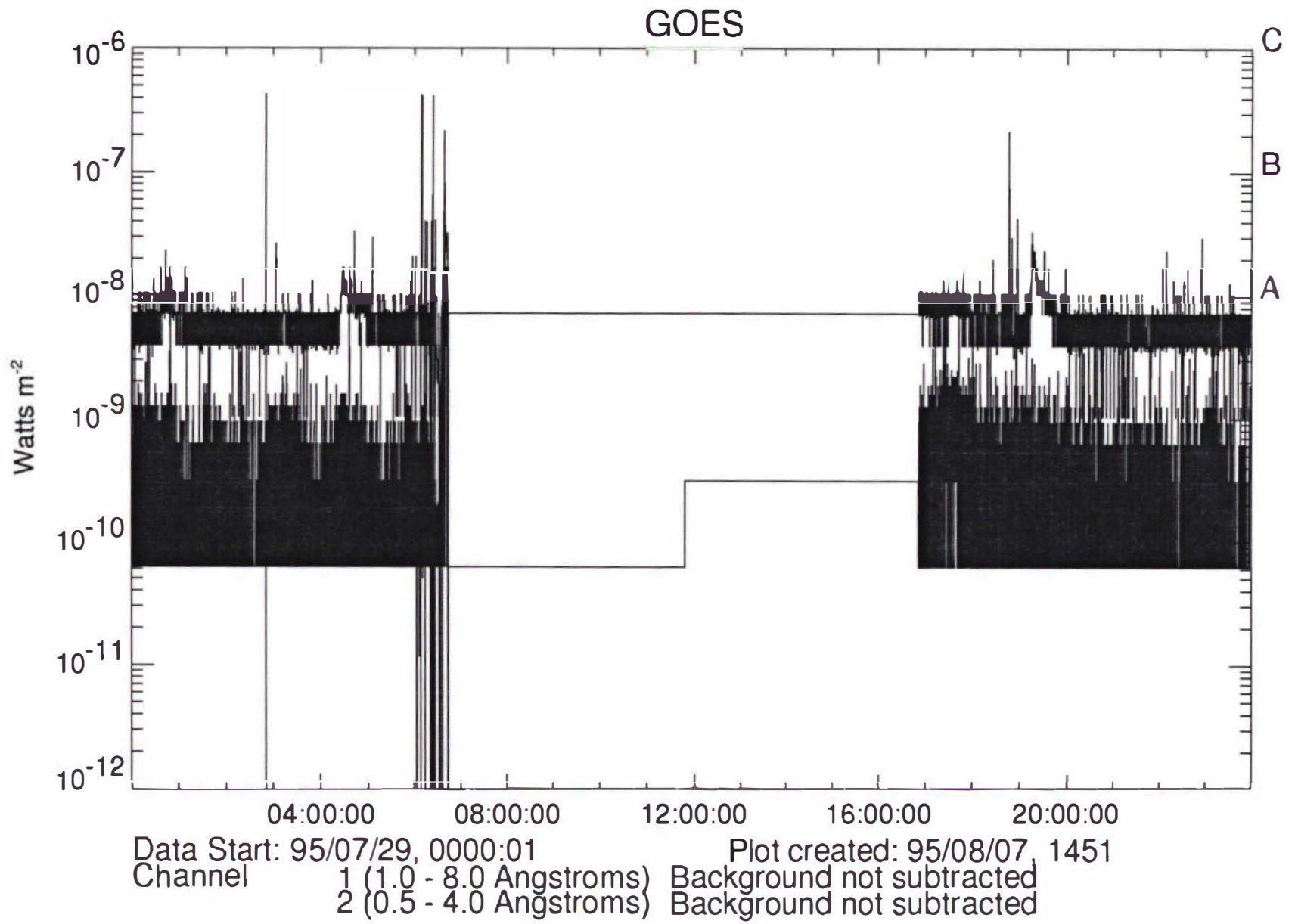
TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

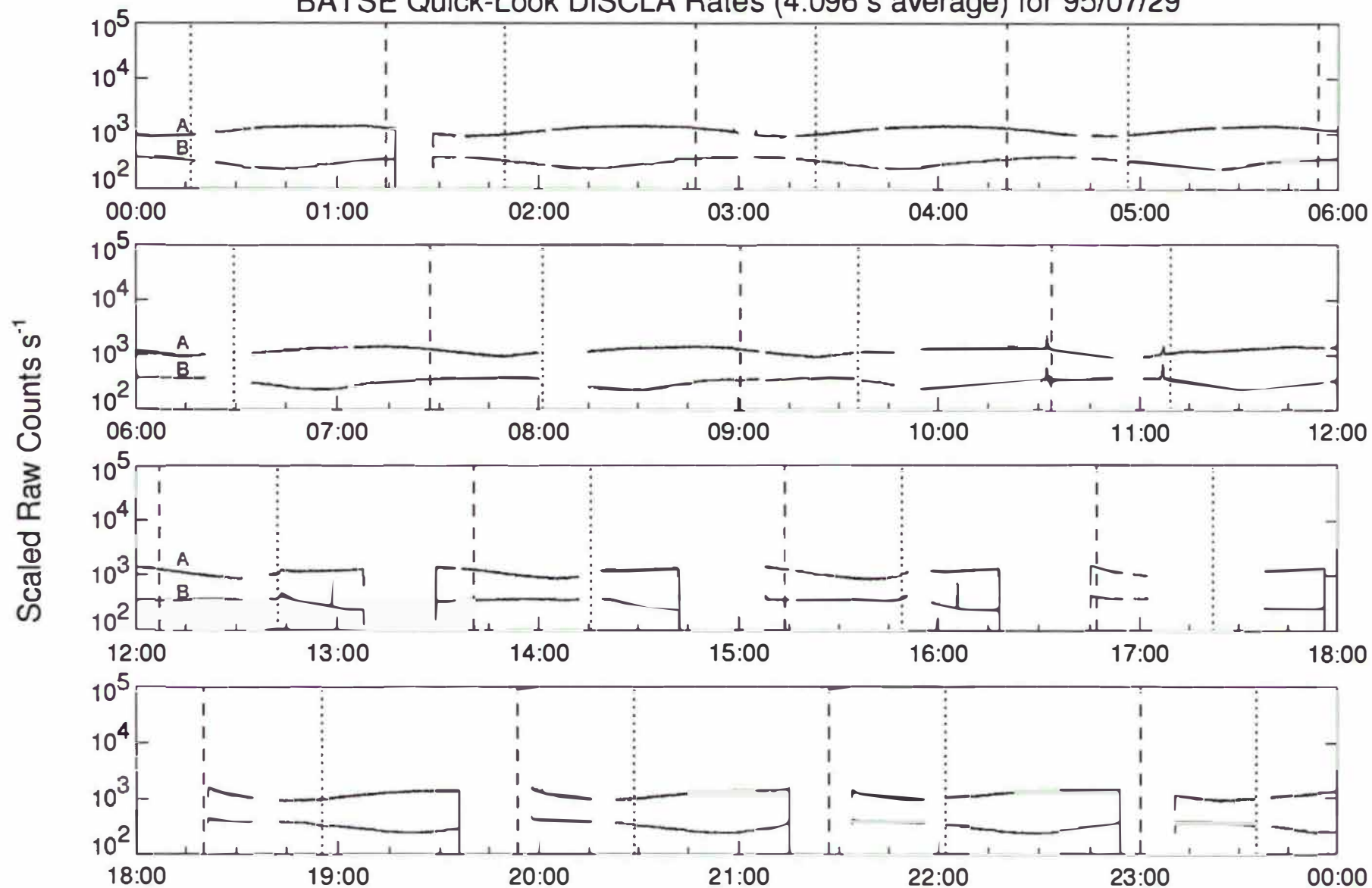
INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/07/29



Current Time: 95/07/31, 0529 EDT

A: Channel 0 Most Sunward LAD

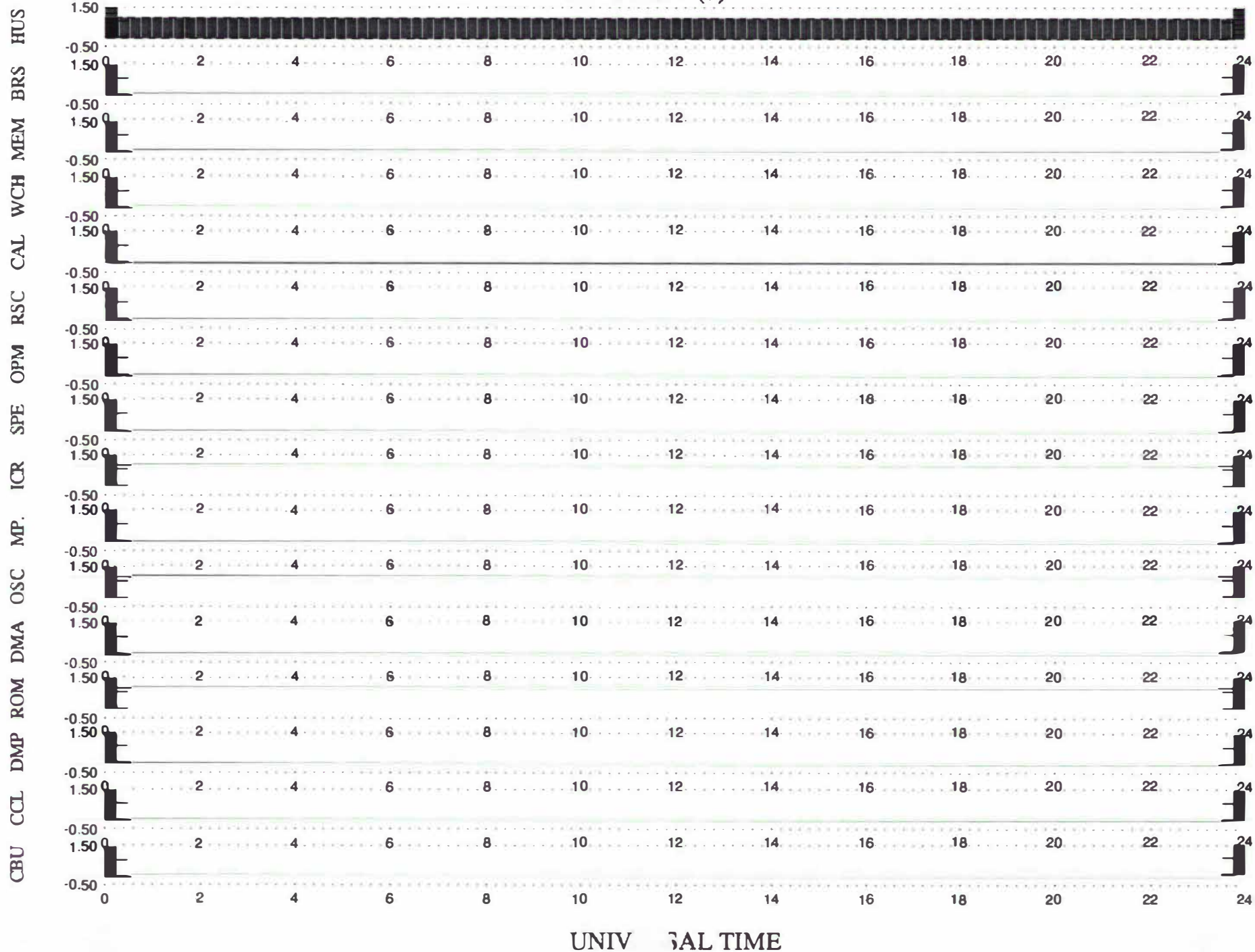
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

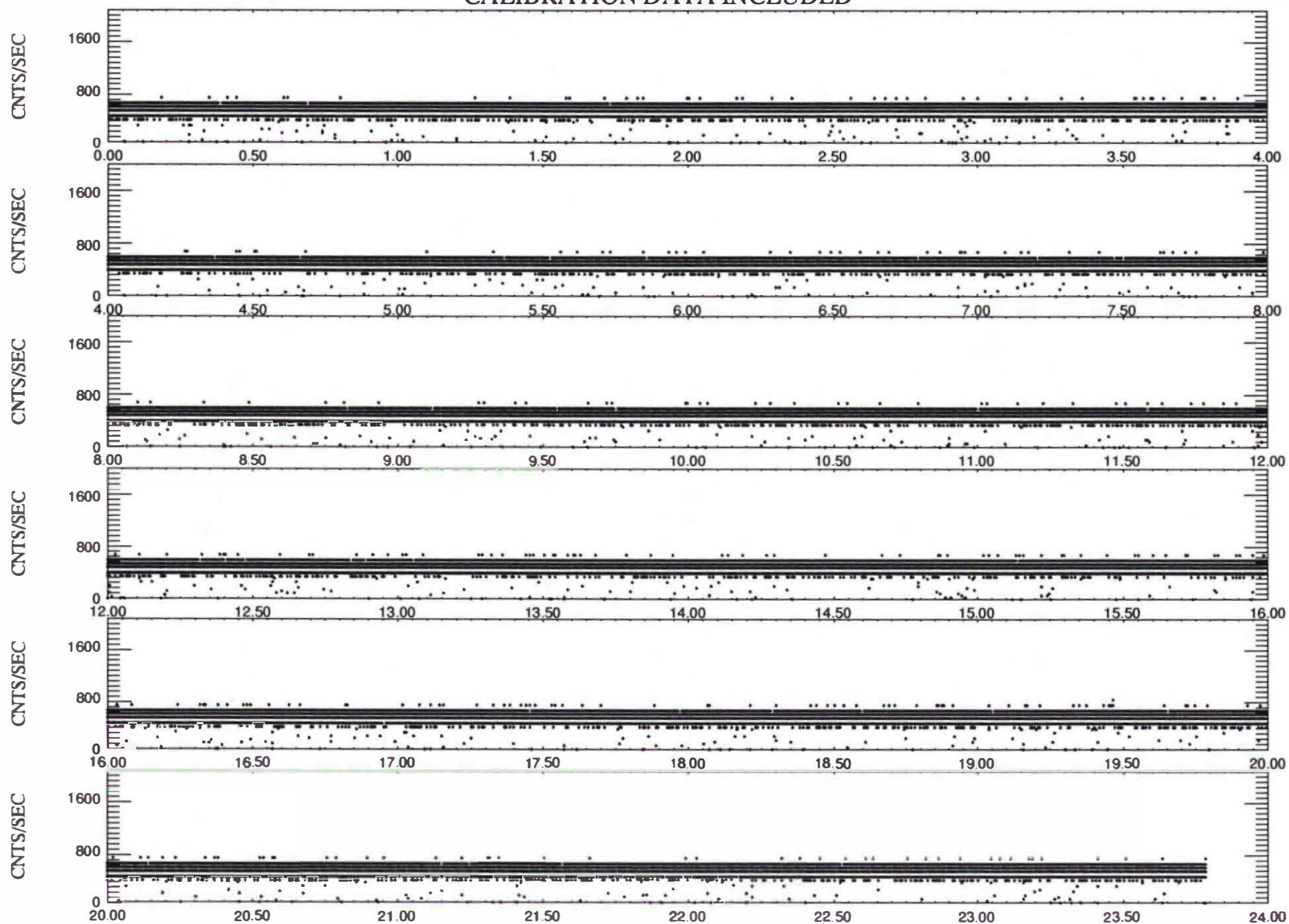
HUS MODES EDR day 210, year 1995 to day 210, year 1995 NO BURST (7)

1/25/96

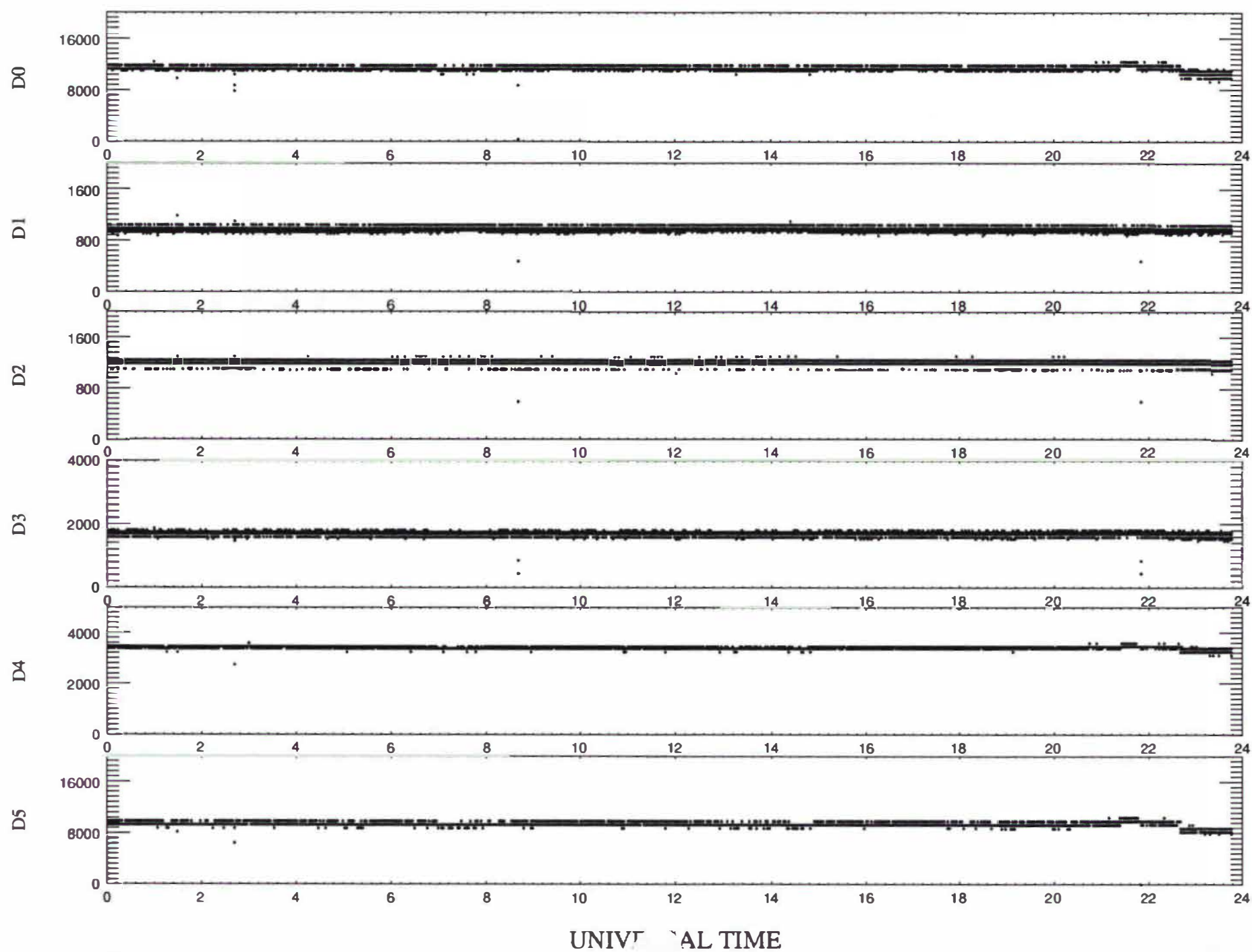


HUS 2A, MODE 1, NOT AVERAGED EDR day 210, year 1995 to day 210, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV SAL TIME



From DEAL@SSLLES.MSFC.NASA.GOV Tue Aug 1 09:36 PDT 1995
From: DEAL@SSLLES.MSFC.NASA.GOV
Date: Tue, 1 Aug 1995 11:36:17 -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
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3715

TIME: TJD=9928 SECONDS=8233

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=68.4 AZIMUTH=146.5 ERROR=9.6 DEGREES

COMMENTS:

A CYGX-1 FLUCTUATION LASTING ~ 50S. NOT VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

From DEAL@SSLLES.MSFC.NASA.GOV Tue Aug 1 09:39 PDT 1995
From: DEAL@SSLLES.MSFC.NASA.GOV
Date: Tue, 1 Aug 1995 11:39:23 -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
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3716

TIME: TJD=9928 SECONDS=21362

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=107.6 AZIMUTH=149.0 ERROR=24.6 DEGREES

COMMENTS:

CYGX-1 LASTING ~ 110S. NOT VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

From DEAL@ssl.msfc.nasa.gov Tue Aug 1 10:13 PDT 1995
Date: Tue, 1 Aug 1995 12:13:50 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3717

BATSEARCH PROGRAM

BATSE BURST # 3717
EVENT OF 1995 JUL 30 DAY OF YEAR=211
EVENT CROSSING TIME AT BATSE : 36089. S. OR 10:01:29.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 246.000 24.000
BATSE PEAK COUNTING RATE: 3000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 30/ 7/ 95 IS:
RA= 136.441 DEC= 82.577 DIST= 2.237 AU
BATSE-ULYSSES DISTANCE = 334622598. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=111.33 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -406.09 SECS.
CROSSING TIME AT ULYSSES IS 35683. S. OR 09:54:42 +/- 224.34 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 30/ 7/ 95 IS:
RA= 184.833 DEC= -1.762 DIST= 1.845 AU
MARS-BATSE DISTANCE = 276035168. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=115.33 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -393.94 SECS.
CROSSING TIME AT MARS IS 35695. S. OR 09:54:55 +/- 138.50 SECONDS

BATSE BURST TRIGGER

NO.: 3717

TIME: TJD=9928 SECONDS=36089

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=123.3 AZIMUTH=136.7 ERROR=6.3 DEGREES

COMMENTS:

BURST LASTING ~ 75 S. NOT VISIBLE ABOVE 300 KEV. CYGNUS X-1 FLUCTUATIONS
DURING BURST. Above error is statistical. Add 1.5 for systematics.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3717	950730	9928	36089	3000	246	+24	75

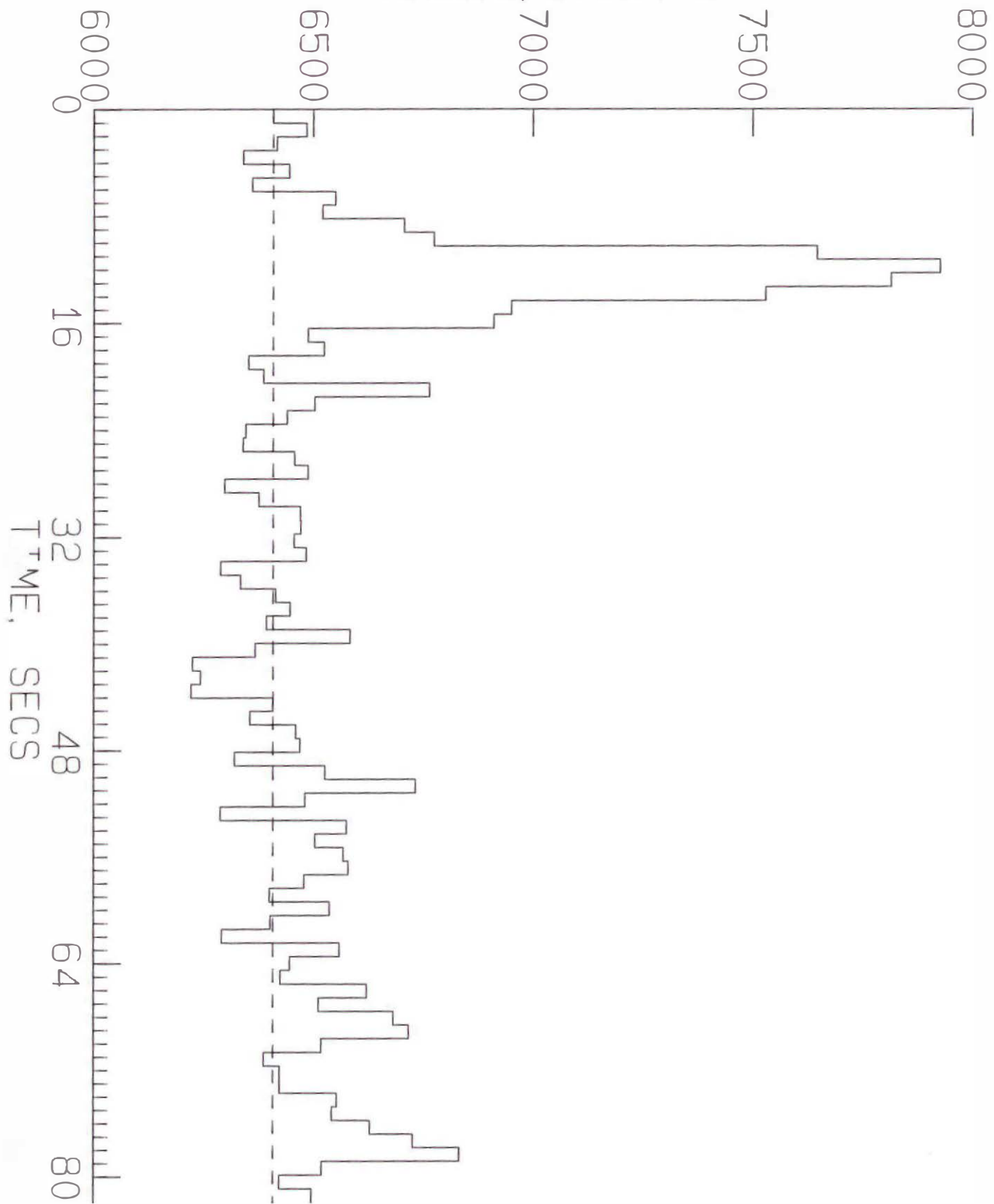
BACODINE

30/07/95

36078.257

25- 100 keV

COUNTS/1.024 S



1 / 8 / 95

ULYSSES RT

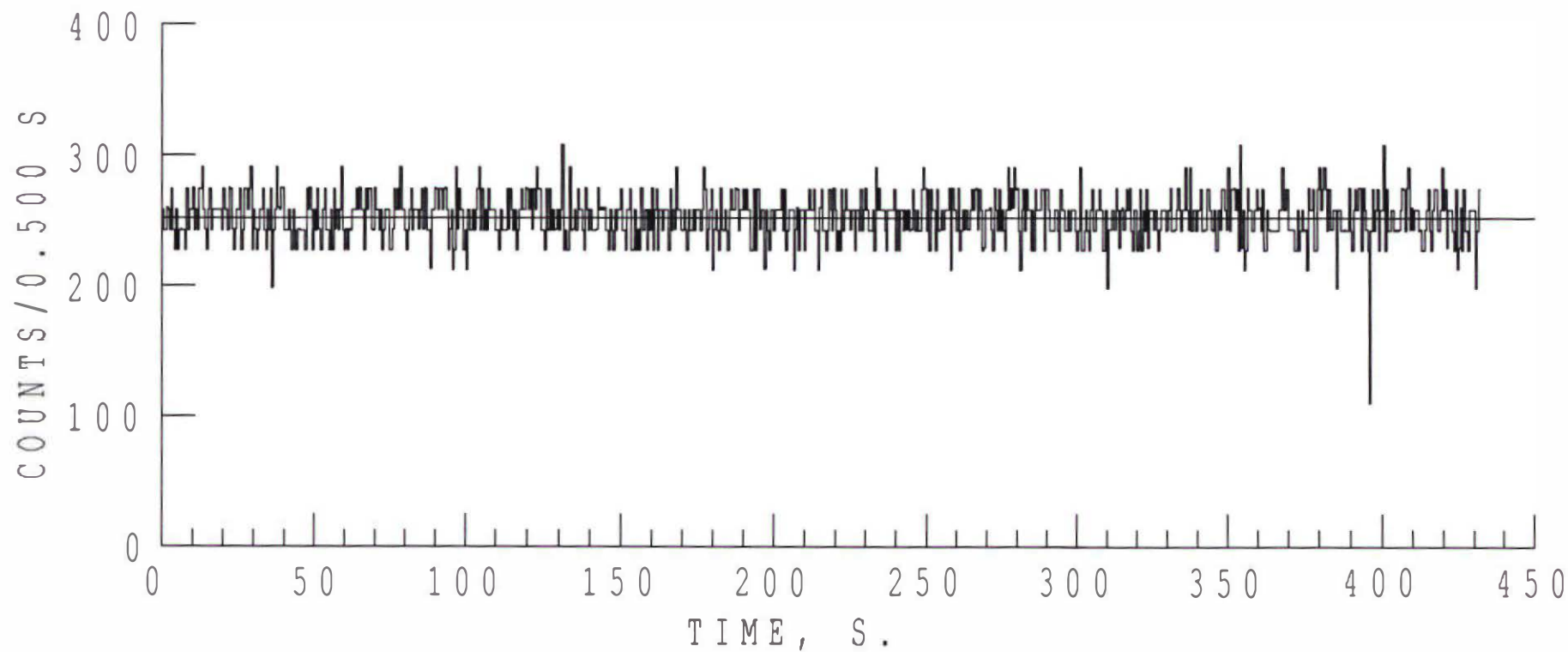
30 / 7 / 95 35460.105 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From DEAL@SSLLES.MSFC.NASA.GOV Tue Aug 1 09:58 PDT 1995
From: DEAL@SSLLES.MSFC.NASA.GOV
Date: Tue, 1 Aug 1995 11:58:43 -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
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3718

TIME: TJD=9928 SECONDS=59375

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=73.5 AZIMUTH=140.5 ERROR=8.9 DEGREES

COMMENTS:

CYGX-1 LASTING ~ 40 S. NOT VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

From DEAL@ssl.msfc.nasa.gov Tue Aug 1 10:01 PDT 1995
Date: Tue, 1 Aug 1995 12:01:43 -0500 (CDT)
From: DEAL@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
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3719

TIME: TJD=9928 SECONDS=65878

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=63.7 AZIMUTH=145.7 ERROR=6.5 DEGREES

COMMENTS:

CYGX-1 LASTING ~ 26 S. NOT VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

From DEAL@ssl.msfc.nasa.gov Tue Aug 1 10:12 PDT 1995
Date: Tue, 1 Aug 1995 12:11:59 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3720

BATSEARCH PROGRAM

RI

BATSE BURST # 3720
EVENT OF 1995 JUL 30 DAY OF YEAR=211
EVENT CROSSING TIME AT BATSE : 76124. S. OR 21:08:44.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 219.000 -14.000
BATSE PEAK COUNTING RATE: 8000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 30/ 7/ 95 IS:
RA= 138.400 DEC= 82.443 DIST= 2.240 AU
BATSE-ULYSSES DISTANCE = 335151118. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 77.35 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 244.81 SECS.
CROSSING TIME AT ULYSSES IS 76369. S. OR 21:12:48 +/- 243.10 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 30/ 7/ 95 IS:
RA= 184.833 DEC= -1.762 DIST= 1.845 AU
MARS-BATSE DISTANCE = 276035168. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=144.08 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -745.70 SECS.
CROSSING TIME AT MARS IS 75378. S. OR 20:56:18 +/- 82.45 SECONDS

BATSE BURST TRIGGER

NO.: 3720

TIME: TJD=9928 SECONDS=76124

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=164.7 AZIMUTH=179.6 ERROR=0.8 DEGREES

COMMENTS:

BURST LASTING ~ 35 S. VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3720	950730	9928	76124	8000	219	-14	35

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

From HENZE@SSLLES.MSFC.NASA.GOV Wed Aug 2 16:08 PDT 1995
Date: Wed, 2 Aug 1995 18:07:32 -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@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03720

TIME: TJD=9928 SECONDS=76124

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=164.7 AZIMUTH=179.6 ERROR=000.8 DEGREES

COMMENTS:

REVISED MESSAGE: TRIGGERED ON CYG X-1 FLUCTUATION, FOLLOWED BY BURST AT
~T+25 S (MAX), DUR. ~10 S, IN MOSTLY DIFFERENT DETECTORS. ON-BOARD MAX
RATES ARE BASED ON PEAK IN BRIGHTEST TRIGGERING DETECTOR; THEREFORE, THEY
DO NOT INDICATE BURST MAX RATES. WEAKLY VISIBLE ABOVE 300 KEV.
LOCATION ERROR IS STATISTICAL; ADD 1.5 DEG FOR SYSTEMATIC.

Date: Feb 17 '92

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

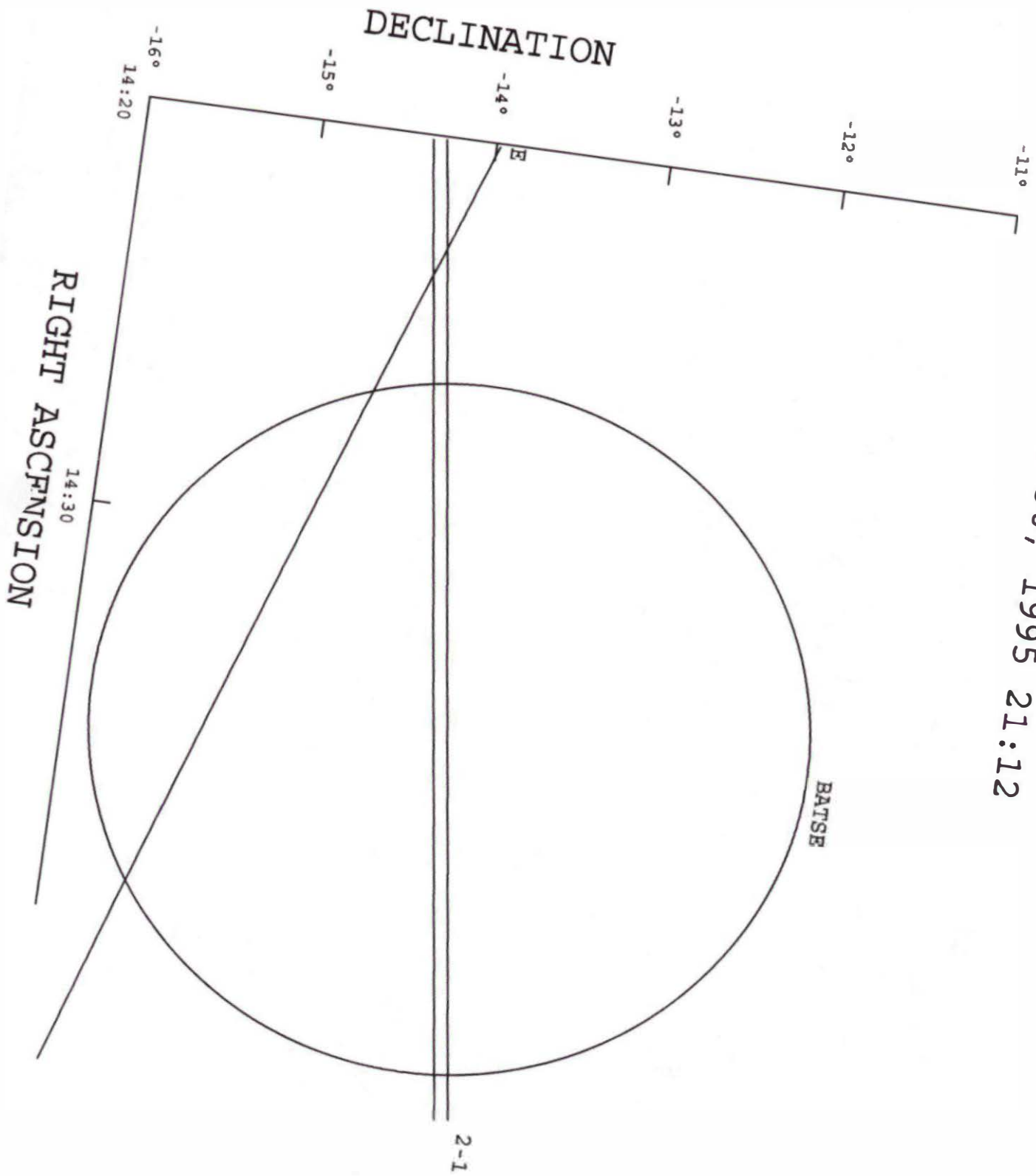
- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)? *N/A*
- ☒ BATSE ephemeris for T_0 ?
- ☐ Error circle position and radius from public catalog used? *No - burst isn't in catalog*
- ☐ If MER data were used, is a 30 ms systematic error included? *N/A*

3. PVO Data

- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☐ ACCESS database updated? *No - burst isn't in catalog, because the trigger occurred for Cyg X-1.
Burst is genuine though*

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 JUL 30, 1995 21:12



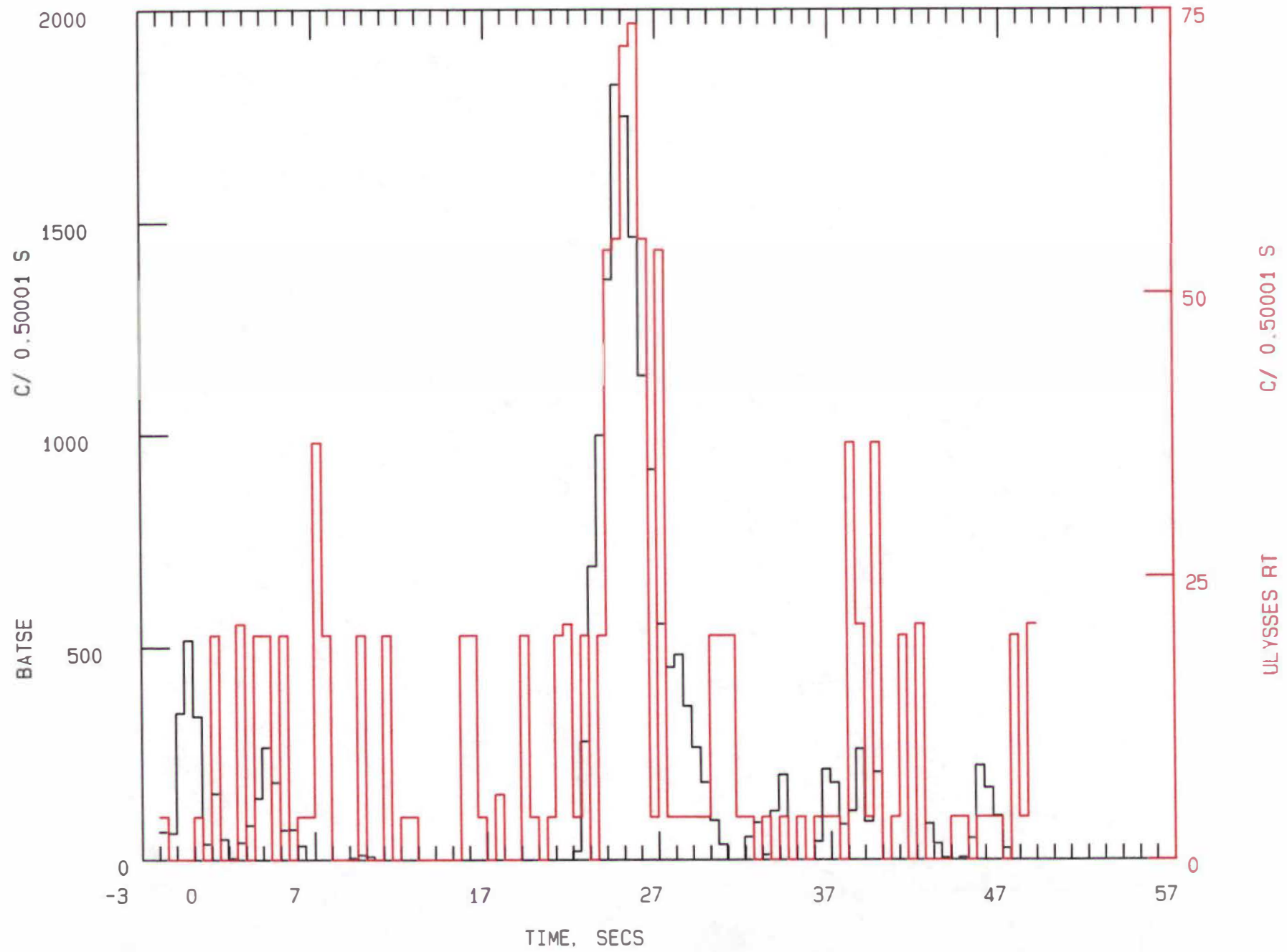
BATSE

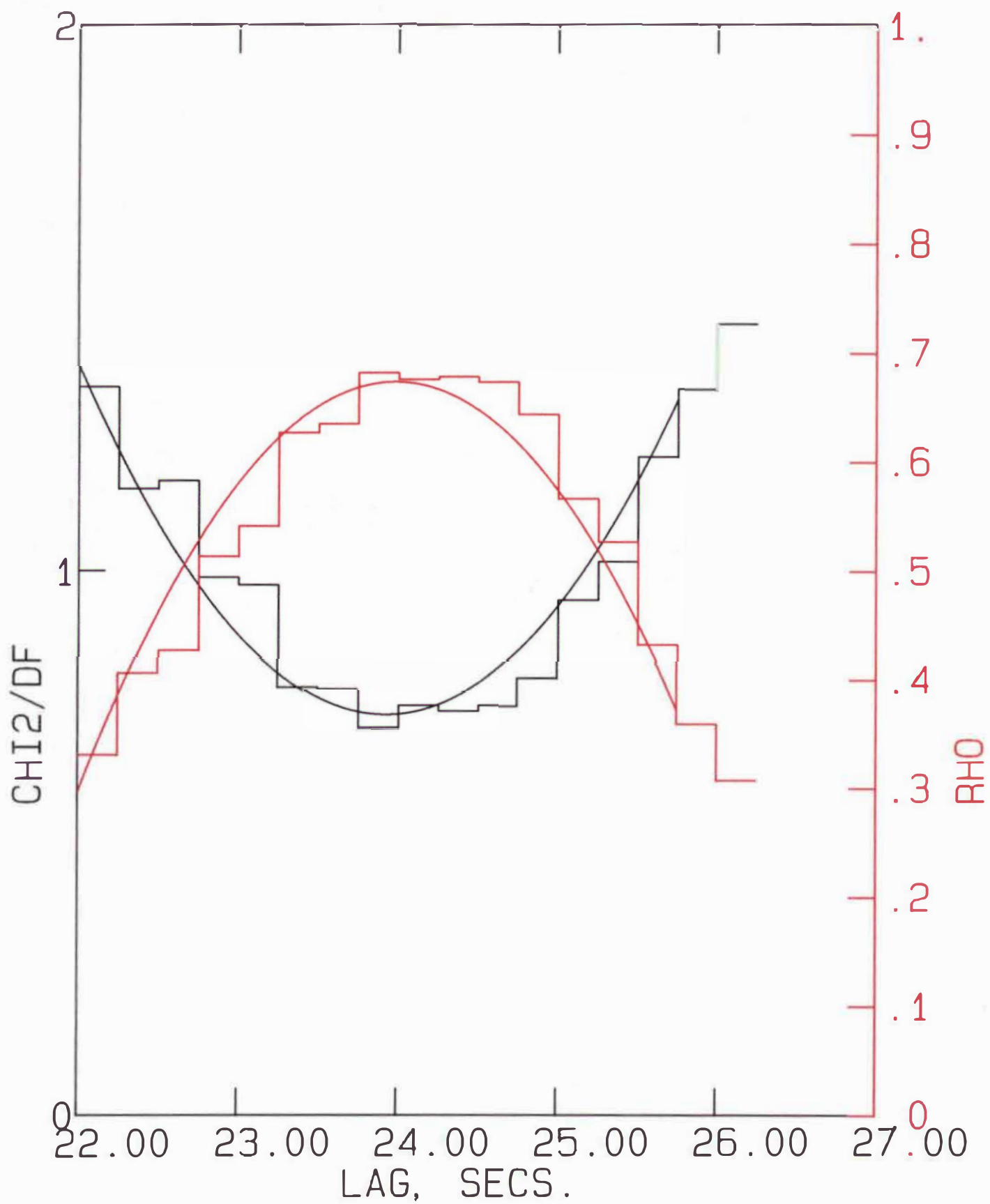
-ULYSSES RT CORRELATION

30/ 7/95

76124.850

27/ 3/98





ULYSSES RT

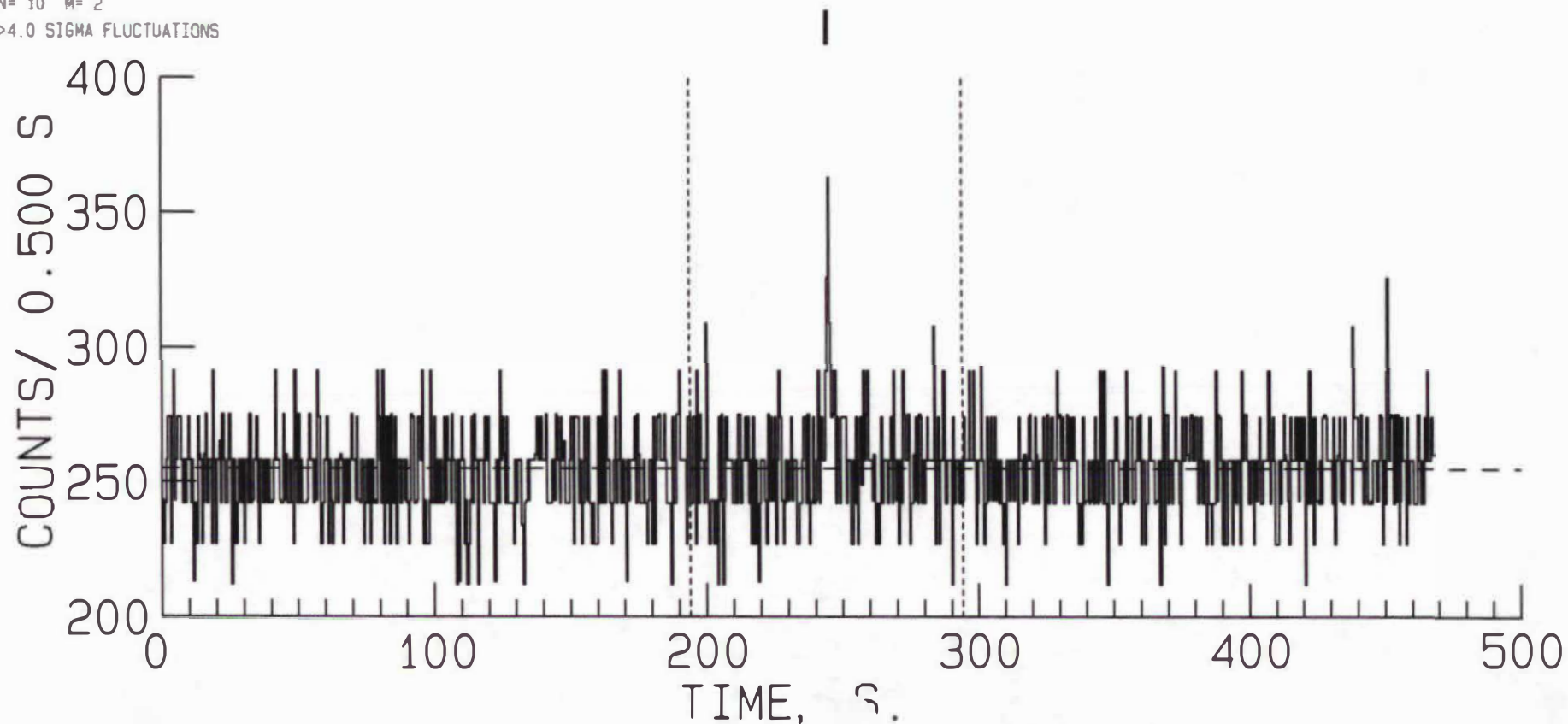
27 / 3 / 98

30 / 7 / 95 76140.068 s

0.250 S INTERVALS REGROUPED BY 2

21- 142 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



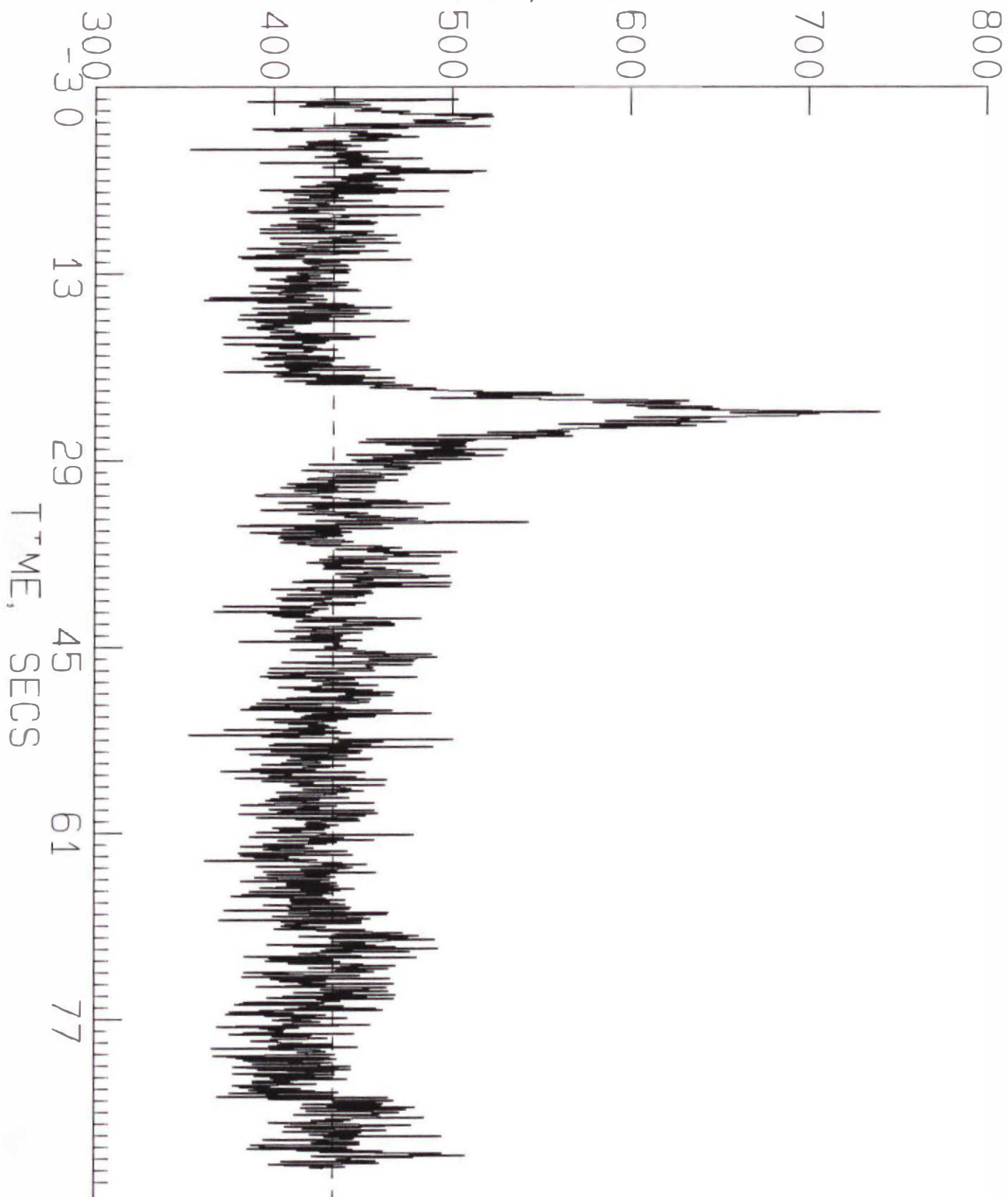
BATSE

30/07/95

76124.850

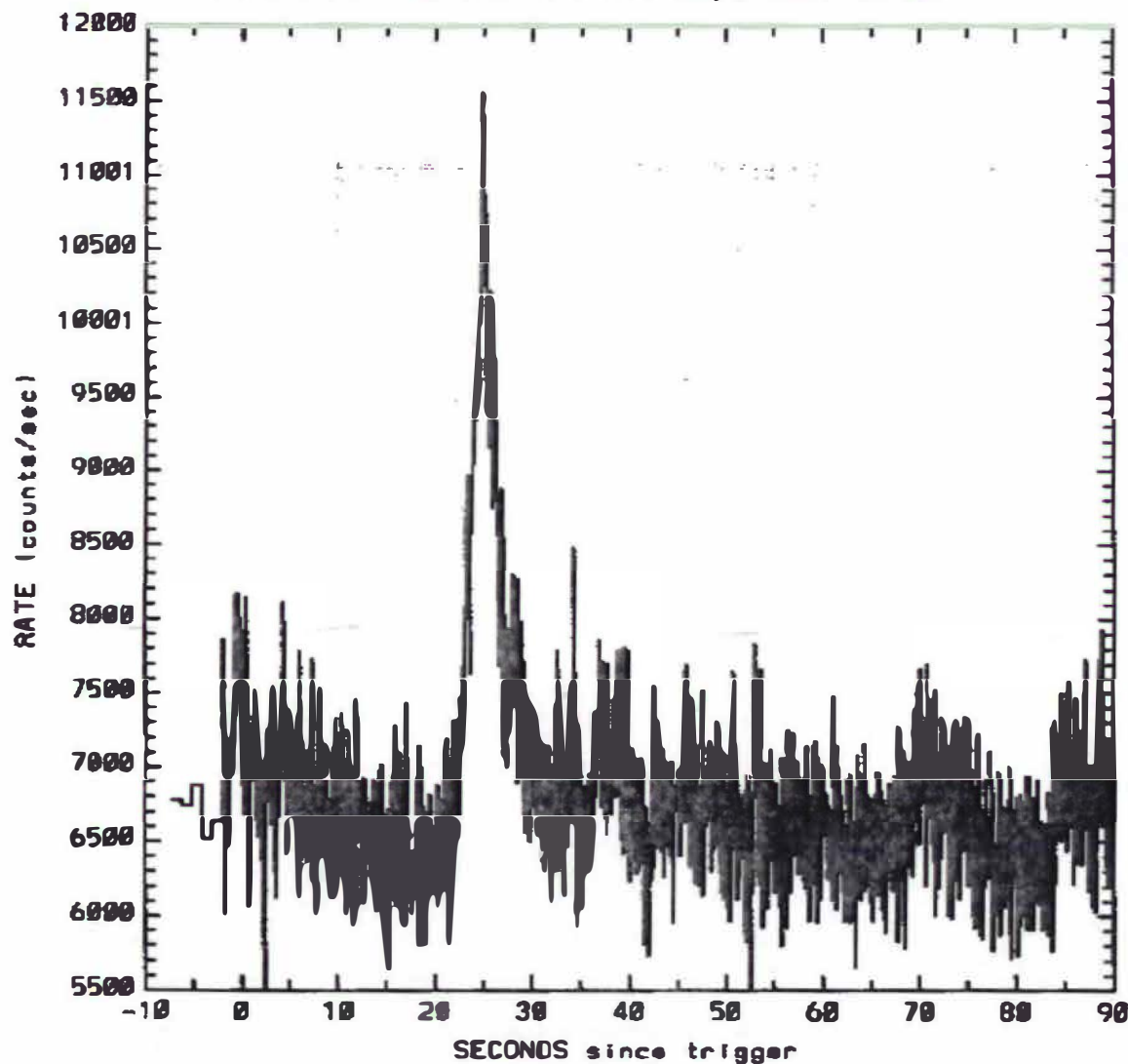
25- 100 keV

COUNTS/ .064 S



16 / 8 / 95

DISCSC Data for K. Hurley. No. 3720

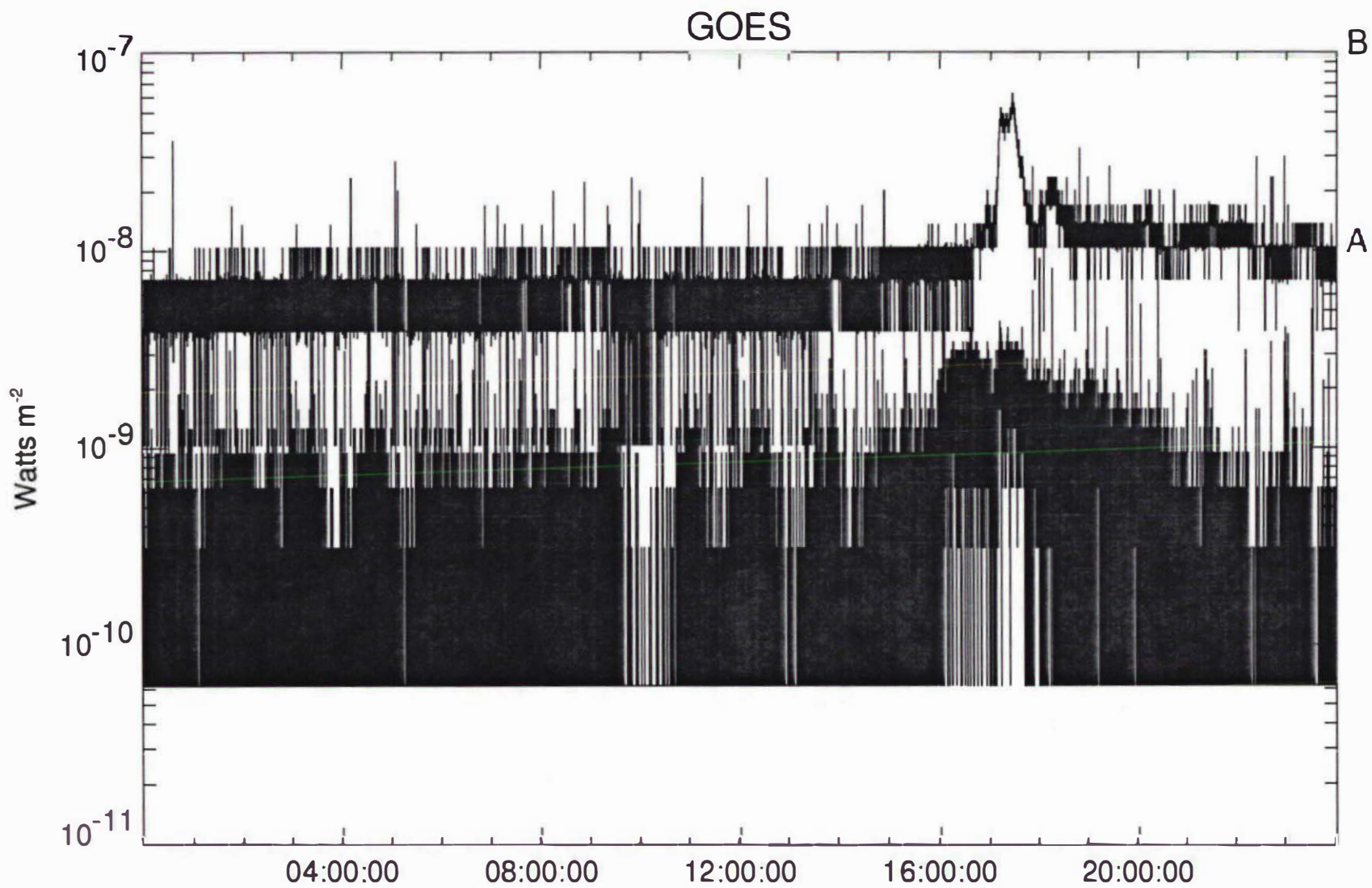


9-AUG-1995 14.25.53

Created by MOPS BD
(Burst Display)
Version t2.25

Trigger # . 3720

Trigger Time:
9920 / 76124.850Burst Data Type:
DISCSCDeadtime
Corrected: NBackground Data
Type: PREB + DISCLAMinimum Integ. Time:
0.064 secondsDetectors [7..8]:
--54--Discriminators:
(1 , 2)Quality Mask:
BDISP1



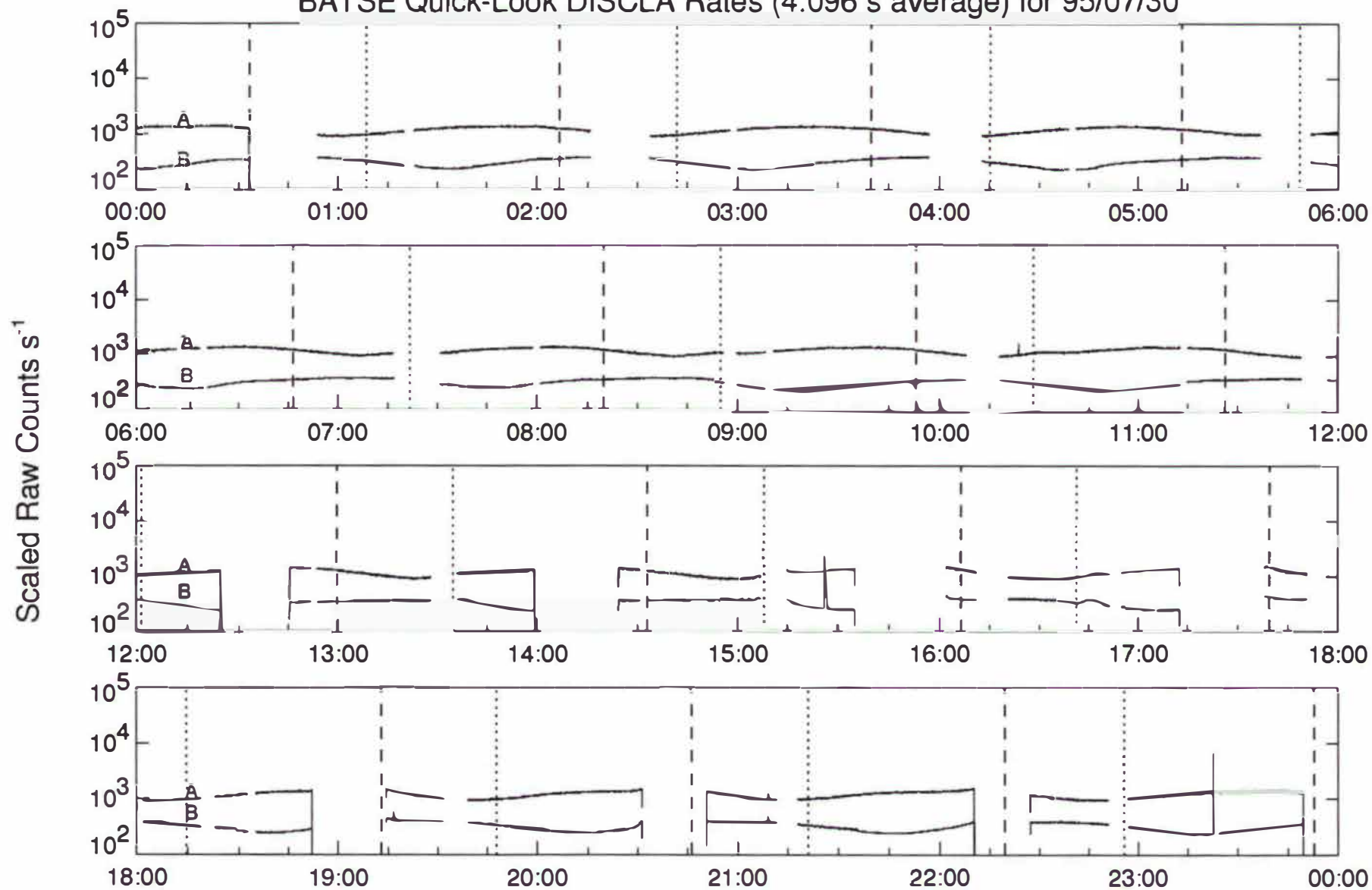
Data Start: 95/07/30, 0000:01

Plot created: 95/08/07, 1500

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 95/07/30

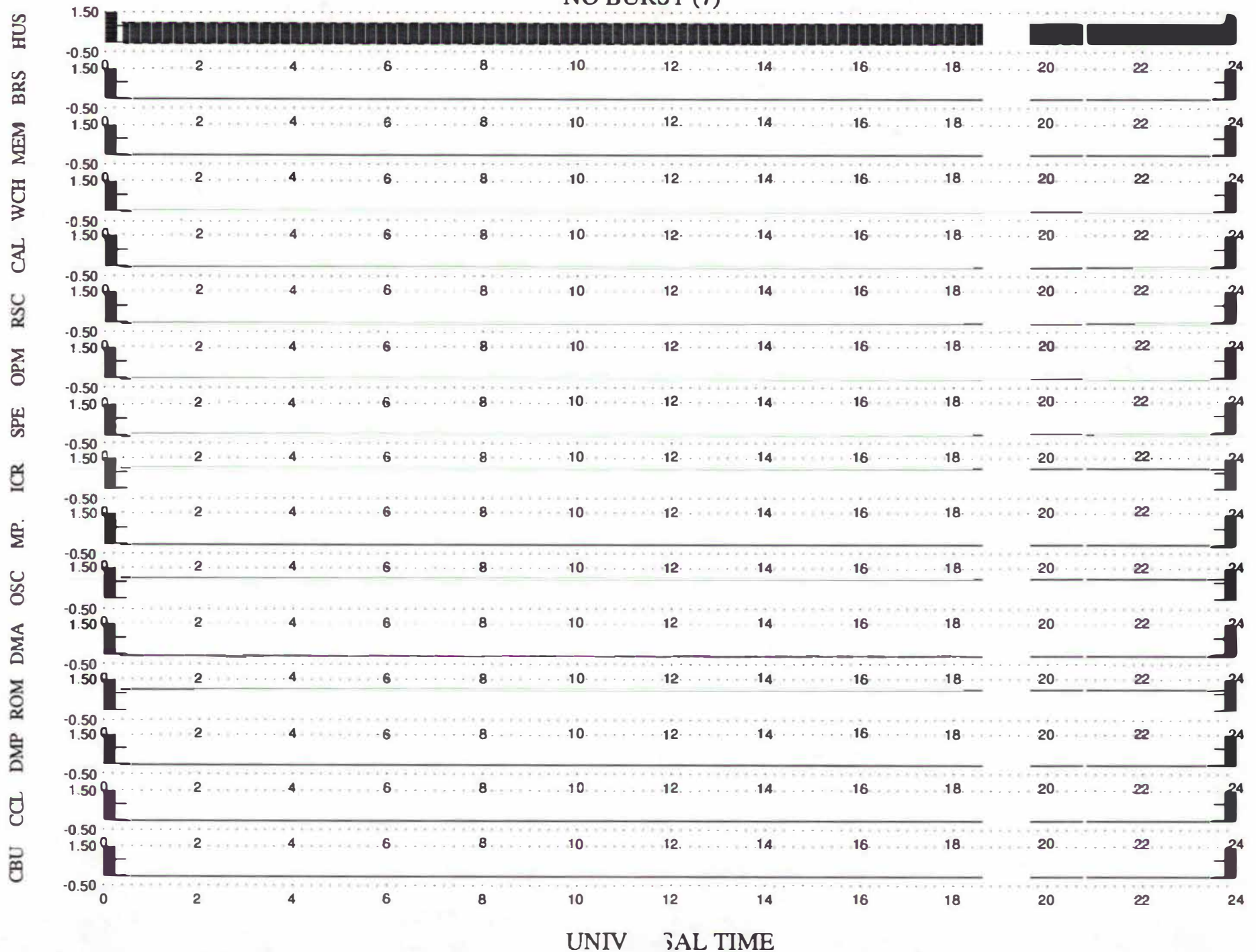


Current Time: 95/08/01, 1536 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

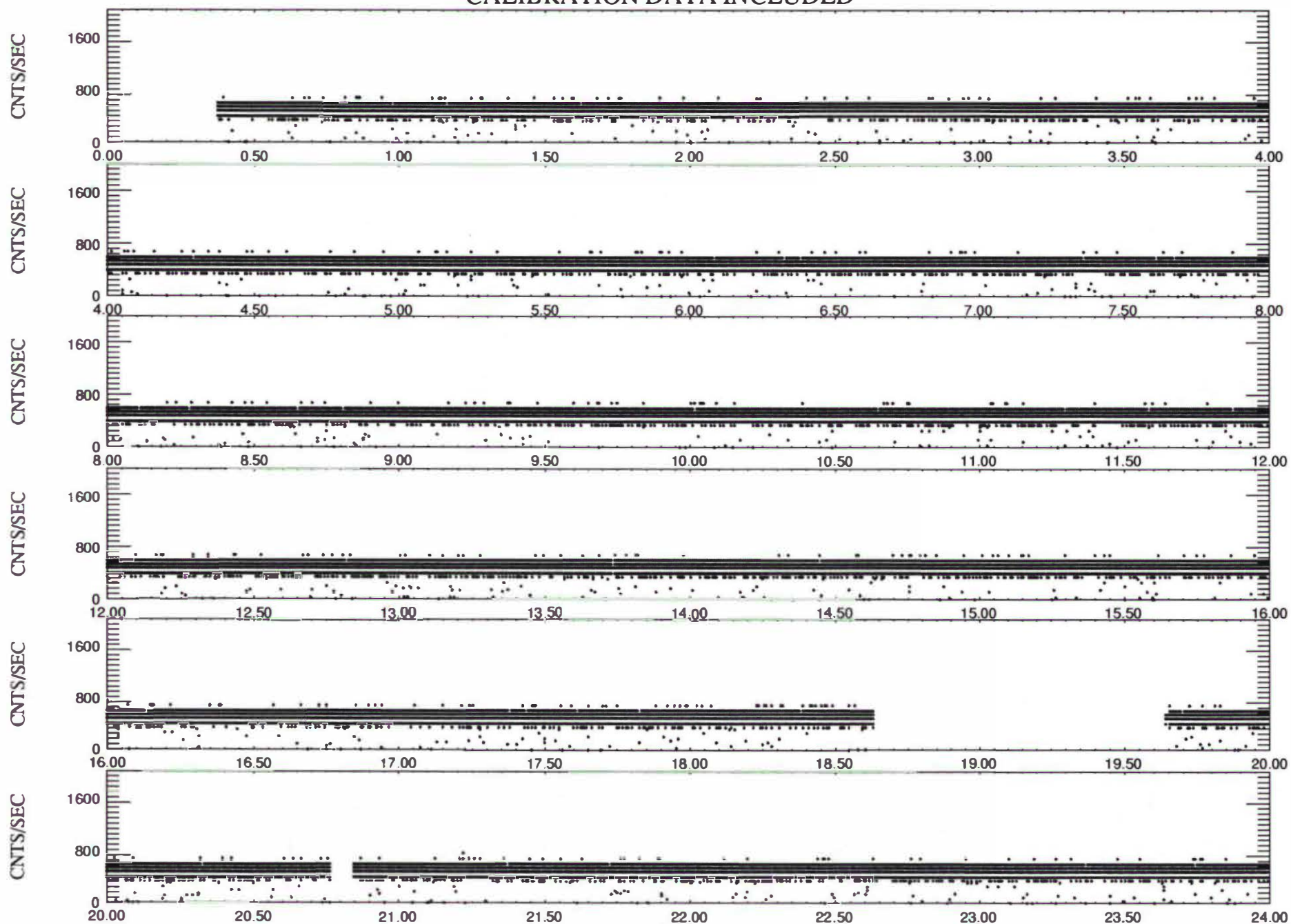
* Solar Burst Trigger
 + Solar Flare

1/25/96

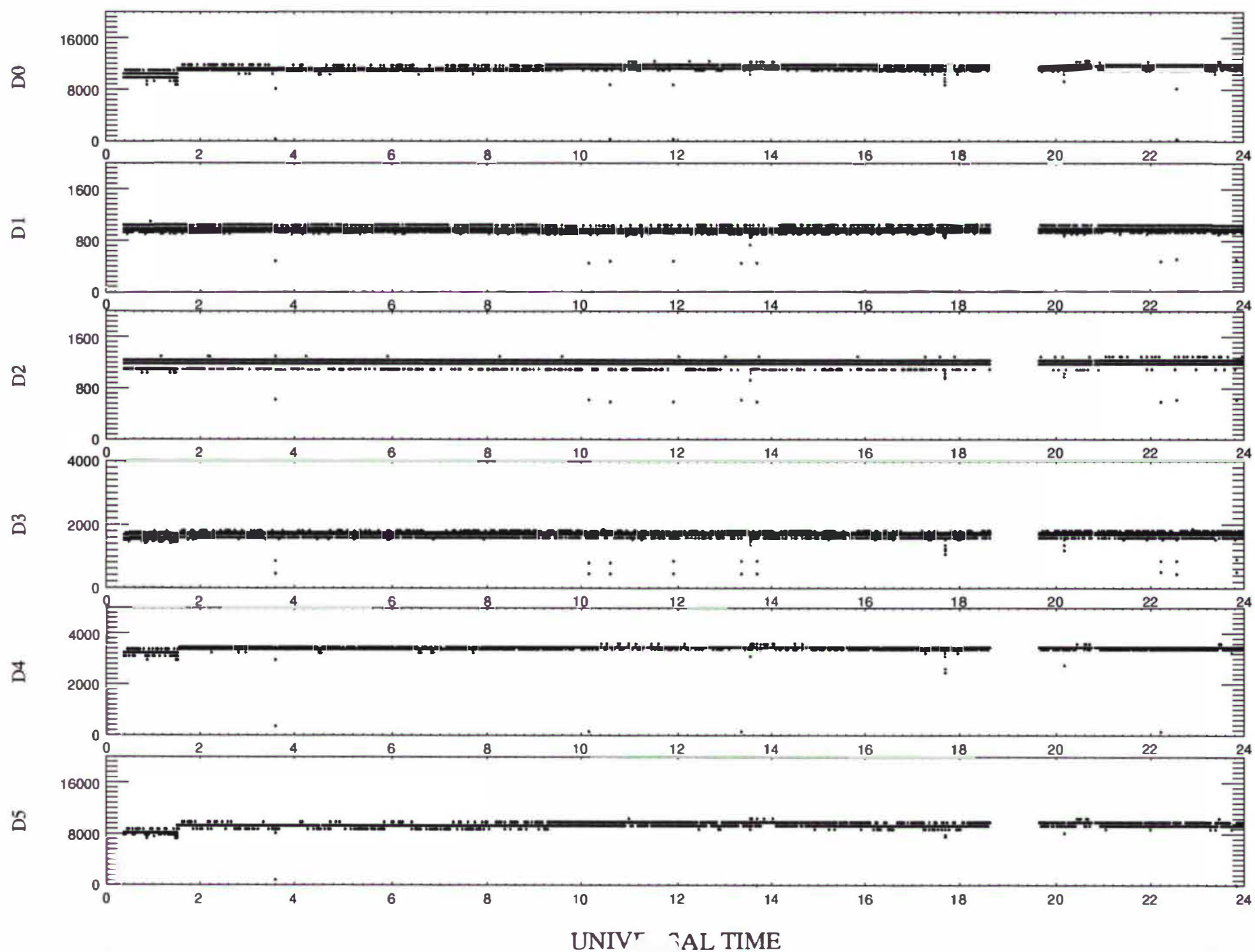


HUS 2A, MODE 1, NOT AVERAGED EDR day 211, year 1995 to day 211, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV TIME



From HAGEDON@fender.msfc.nasa.gov Wed Aug 2 09:25 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Wed, 2 Aug 1995 11:24:48 -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,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3721

TIME: TJD=9929 SECONDS=07661

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

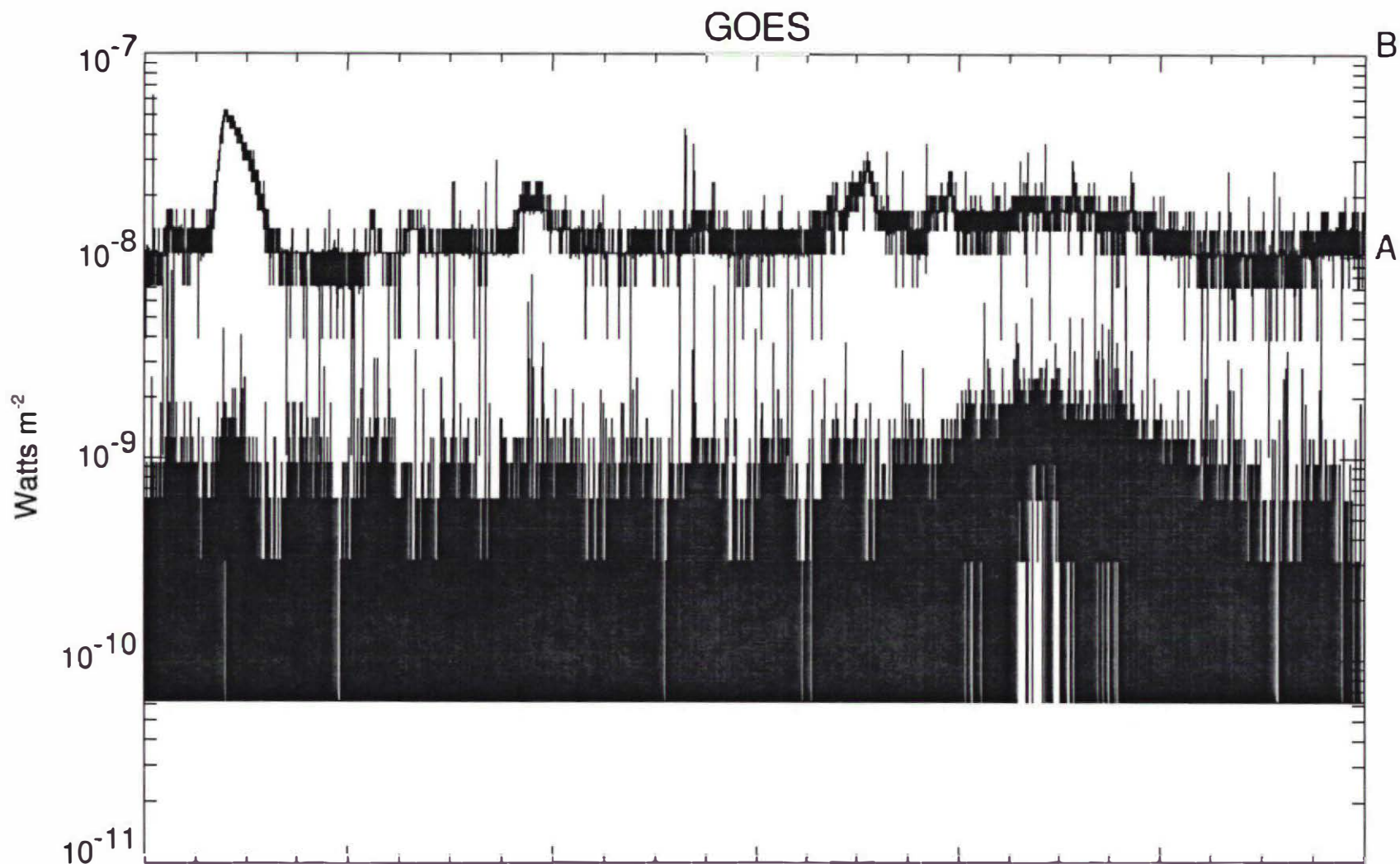
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION. DUR.~12 SEC. NOT VISIBLE ABOVE 300 KEV.



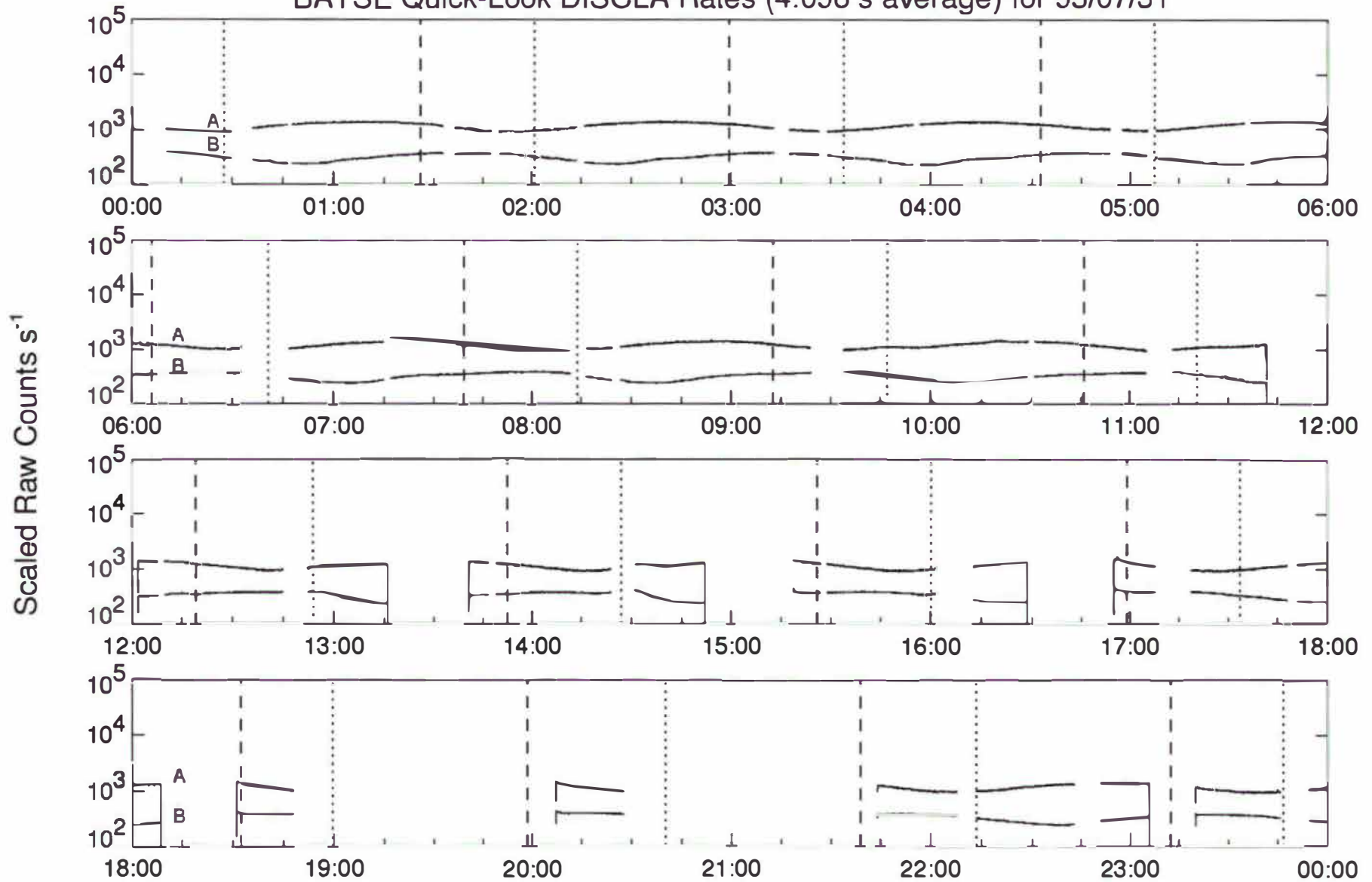
Data Start: 95/07/31, 0000:02

Plot created: 95/08/07, 1504

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 95/07/31



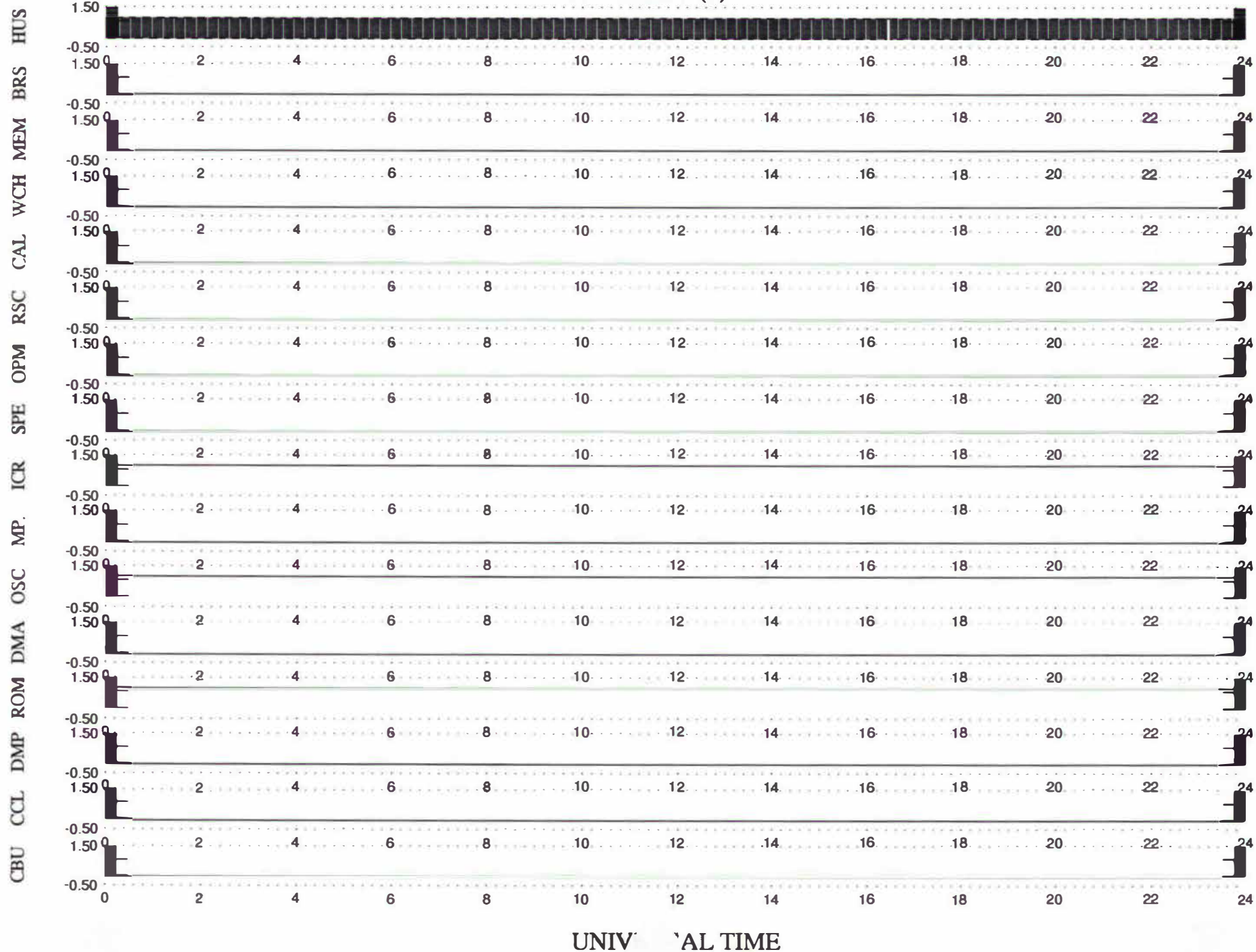
Current Time: 95/08/02, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

HUS MODES EDR day 212, year 1995 to day 212, year 1995 NO BURST (7)

1/25/96



Ch...

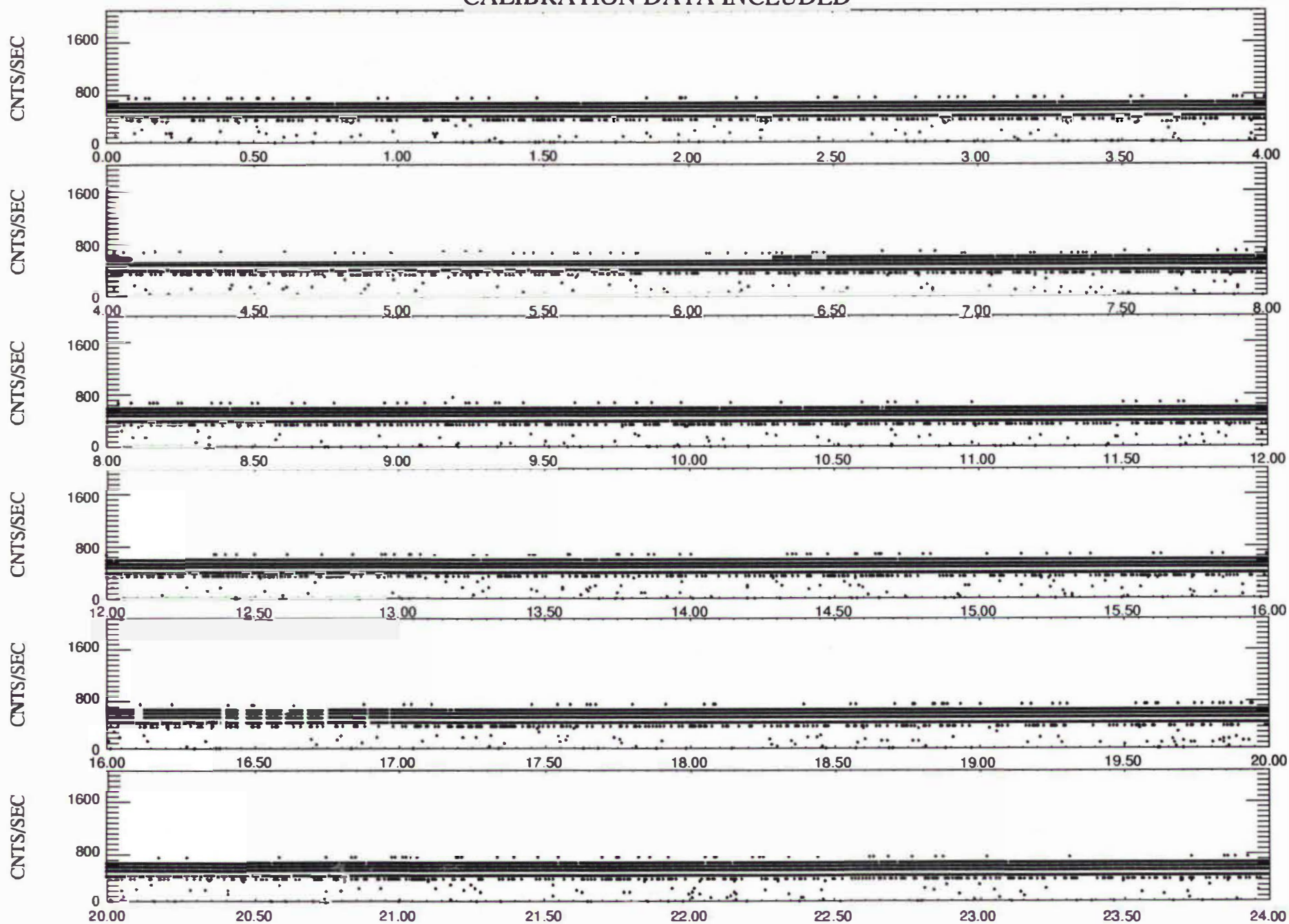
...

...

...

HUS 2A, MODE 1, NOT AVERAGED EDR day 212, year 1995 to day 212, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV SAL TIME

