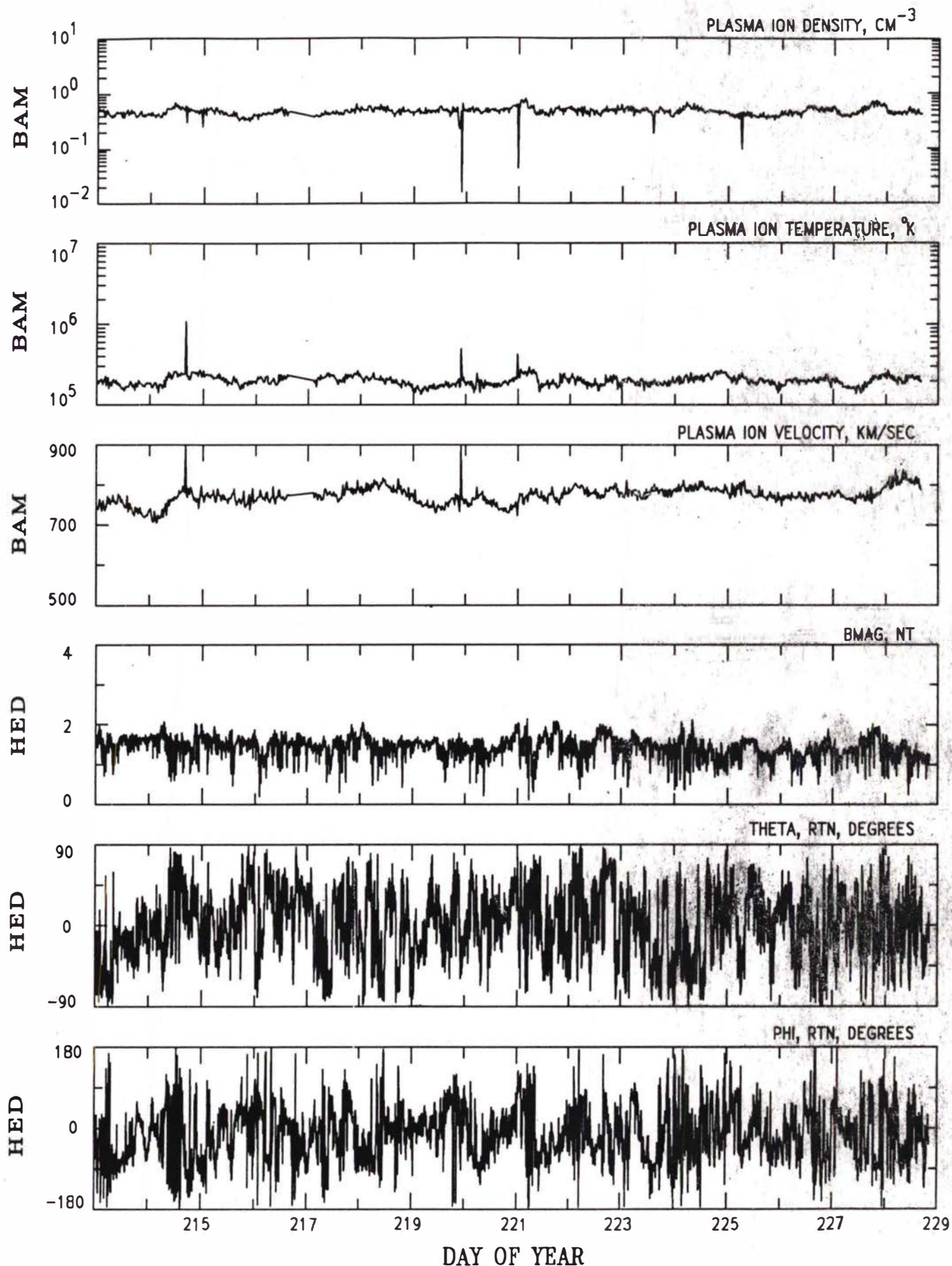


ULYSSES CDR - SOLAR WIND PLASMA AND MAGNETIC FIELD

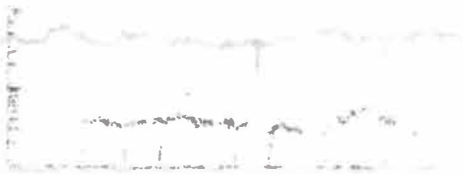
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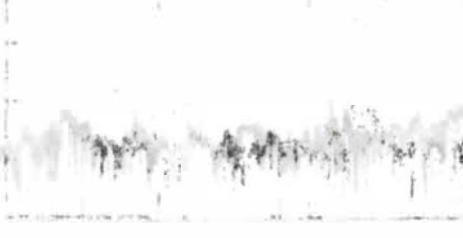
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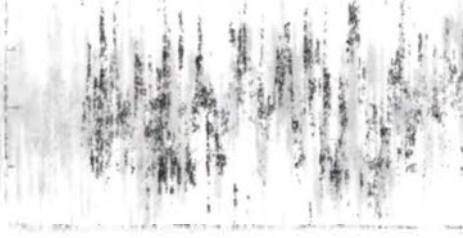
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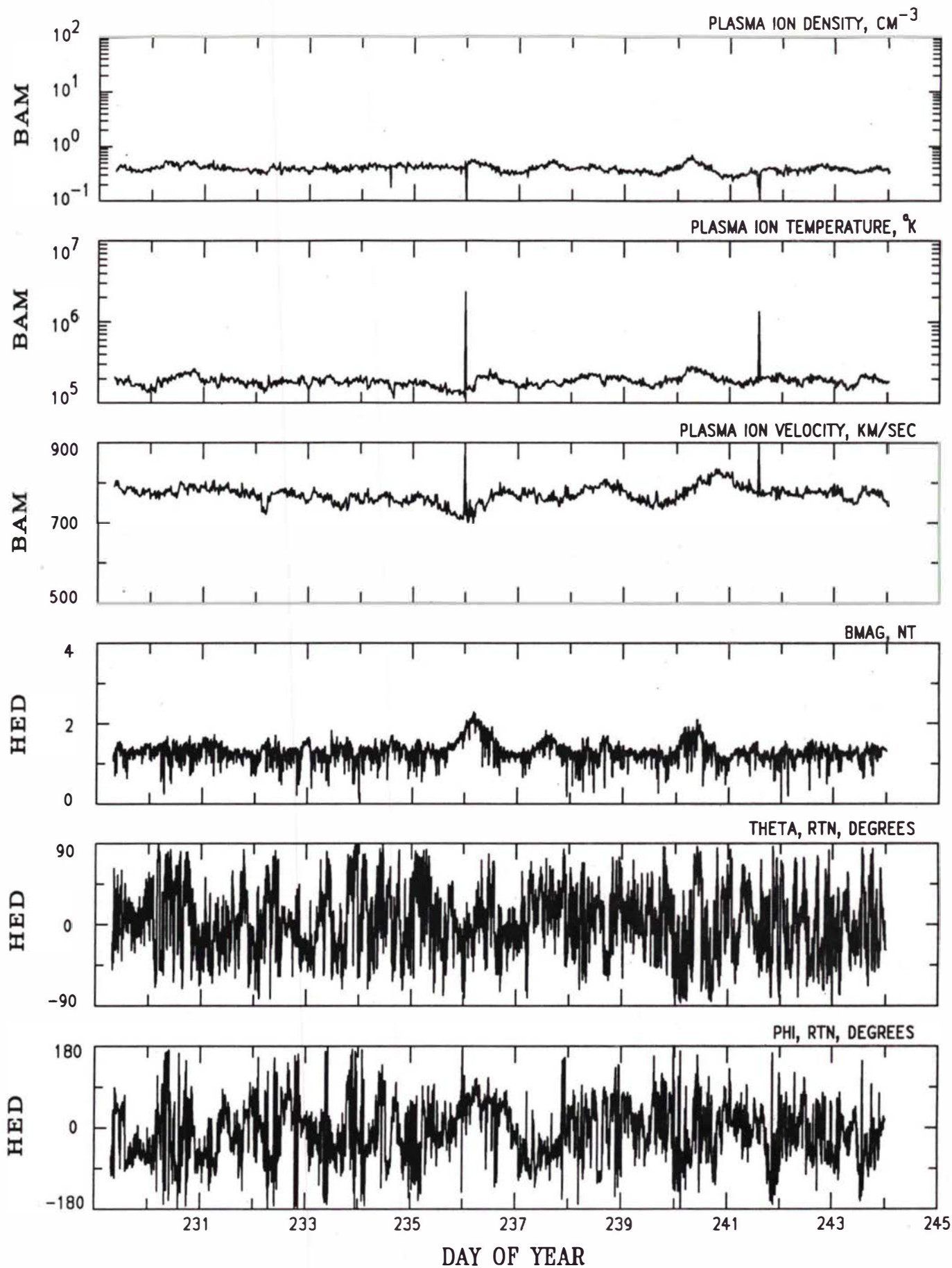


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ULYSSES CDR - SOLAR WIND PLASMA AND MAGNETIC FIELD

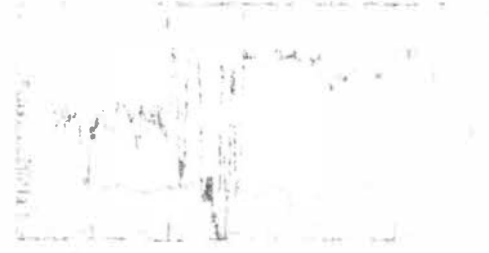
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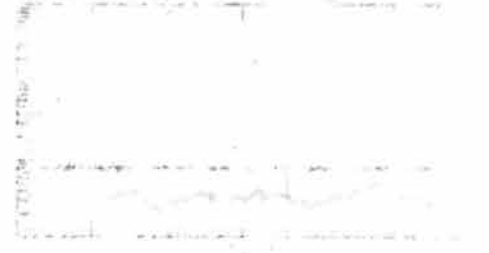
1950-1-1 12:00 AM

10.00 AM

10.00 AM



10.00 AM



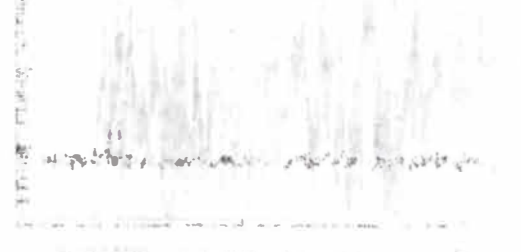
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10.00 AM

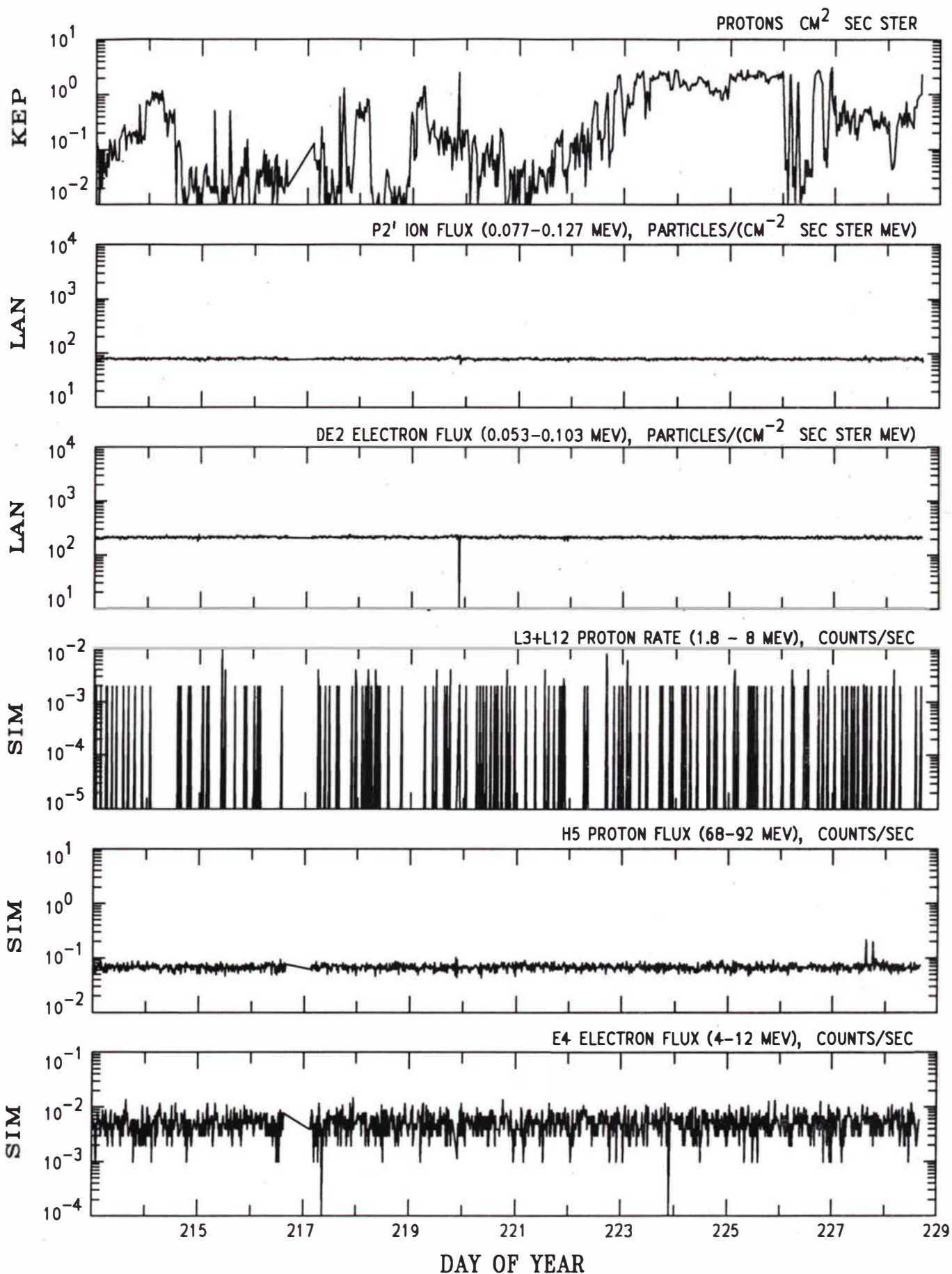


10.00 AM



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

95 213 AUG 1 00:00:00.000 - 95 229 AUG 17 00:00:00.000



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$$(M_3, \{x^i, y^i, z^i, S^i, S_{i+1}^i, S_{i+2}^i\}_{i=0}^{\infty})$$

— **Topic:** *Healthcare*

J. Biol. Chem. 267: 890-895, 1992

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2
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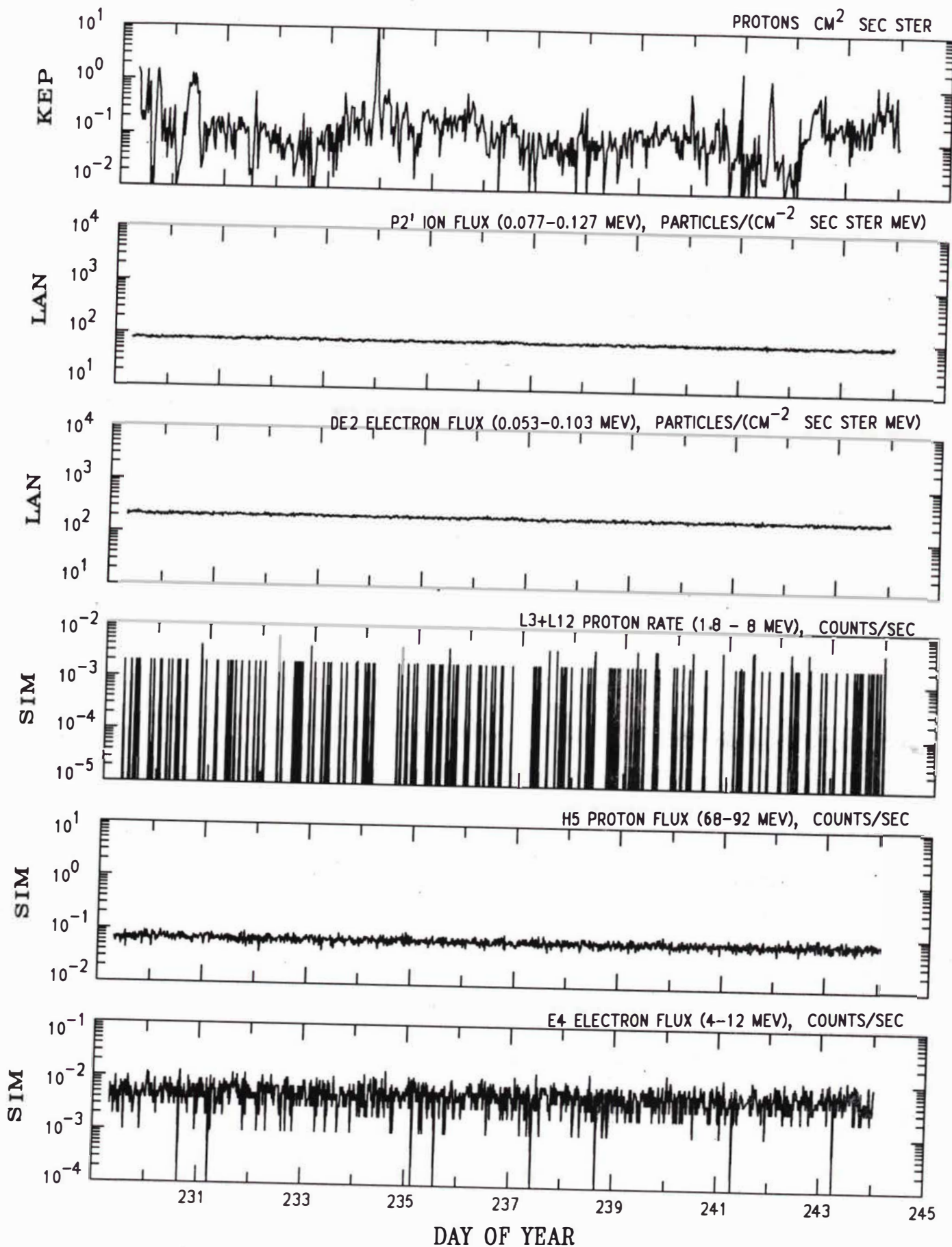
© 2005 Blackwell Publishing Ltd *Journal of Internal Medicine* 257: 105–112

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1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

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

95 229 AUG 17 00:00:00.000 - 95 245 SEP 2 00:00:00.000



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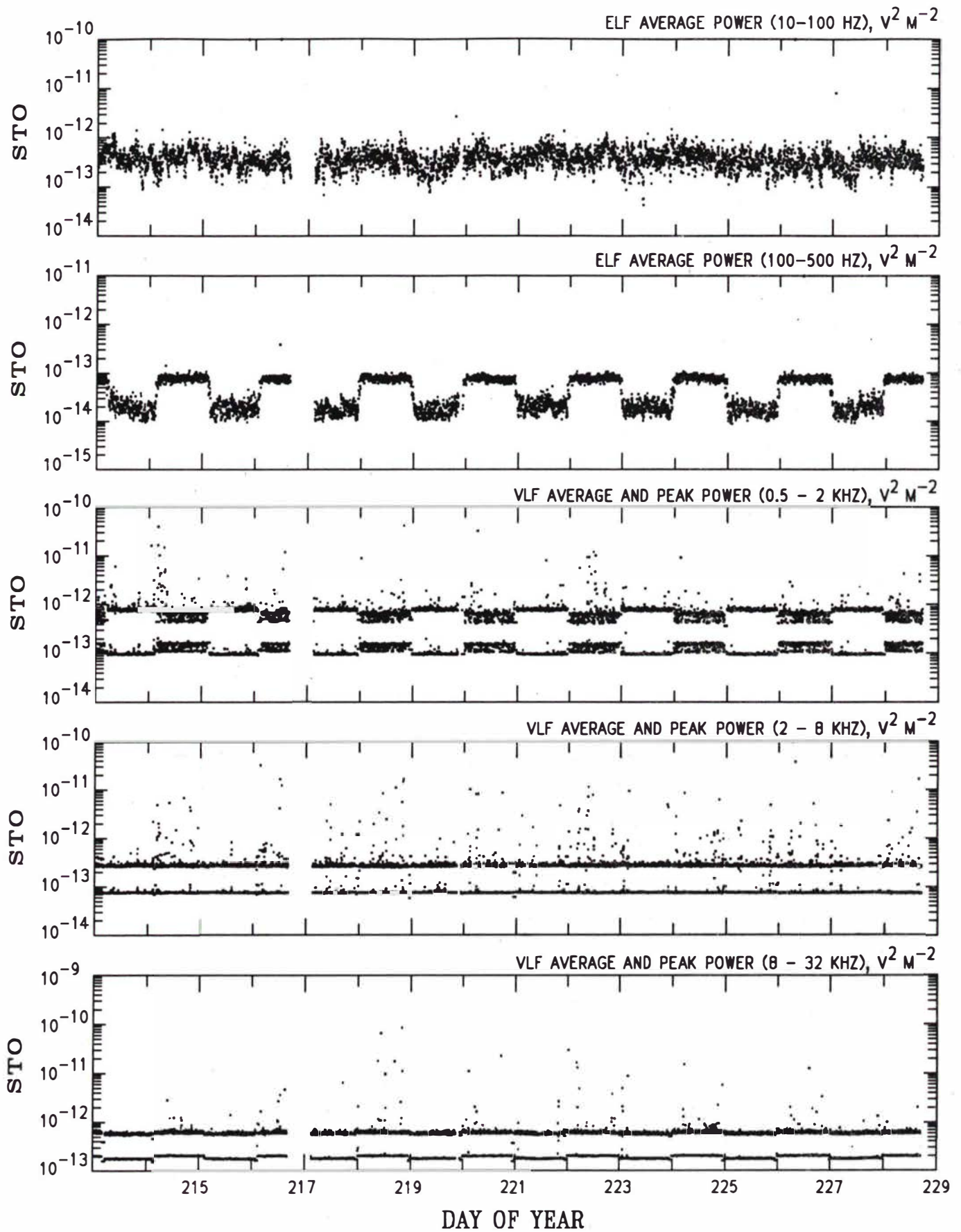
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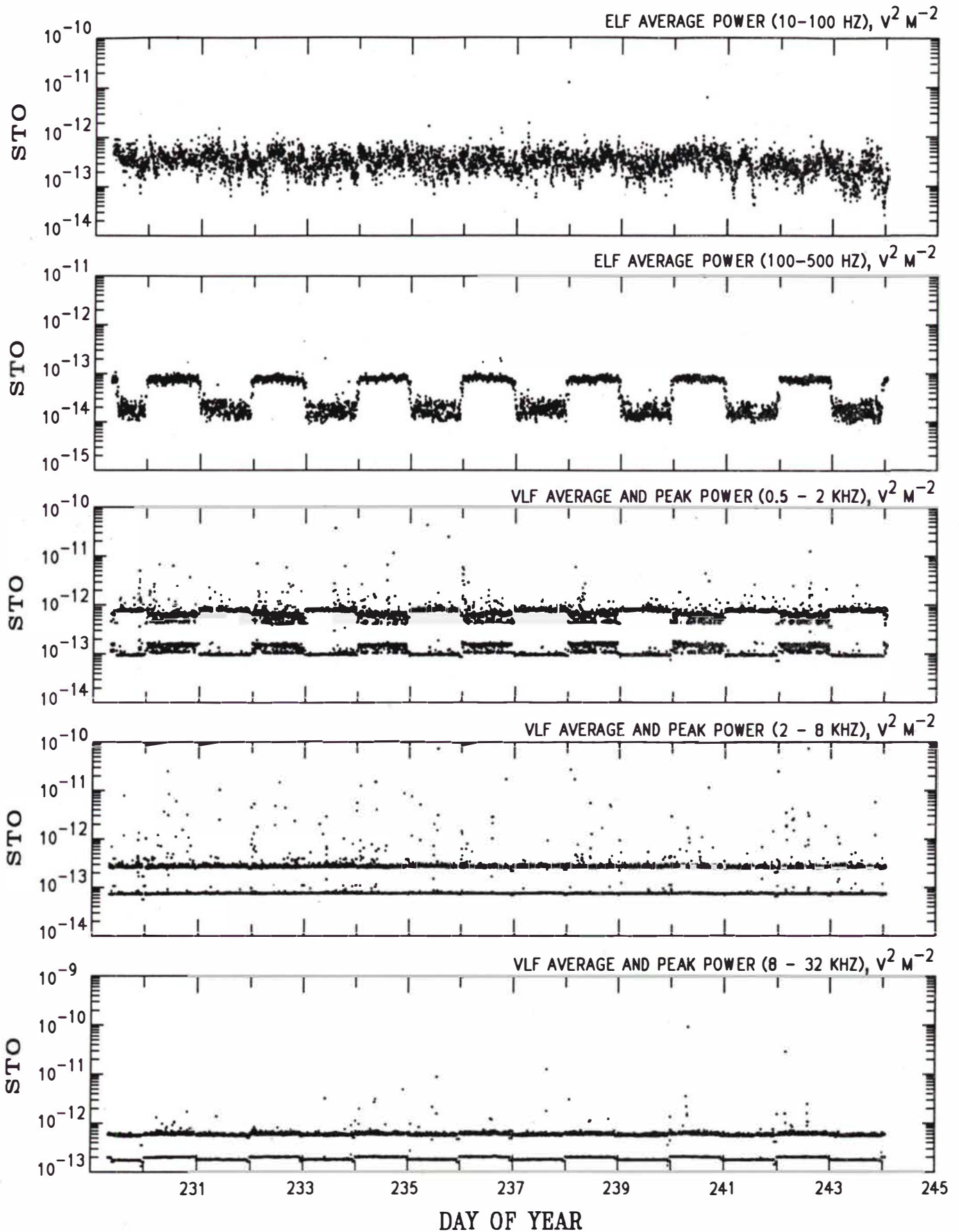
ULYSSES CDR - PLASMA WAVE

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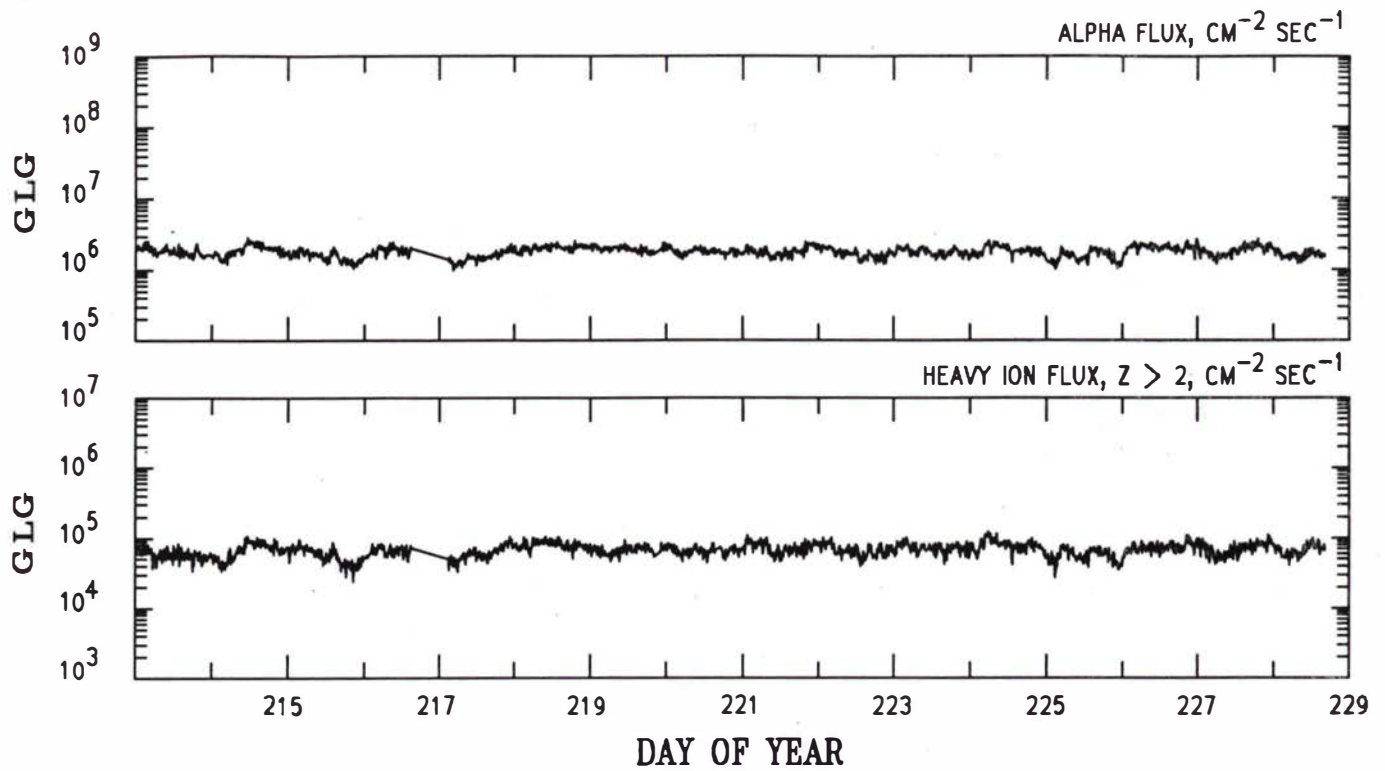
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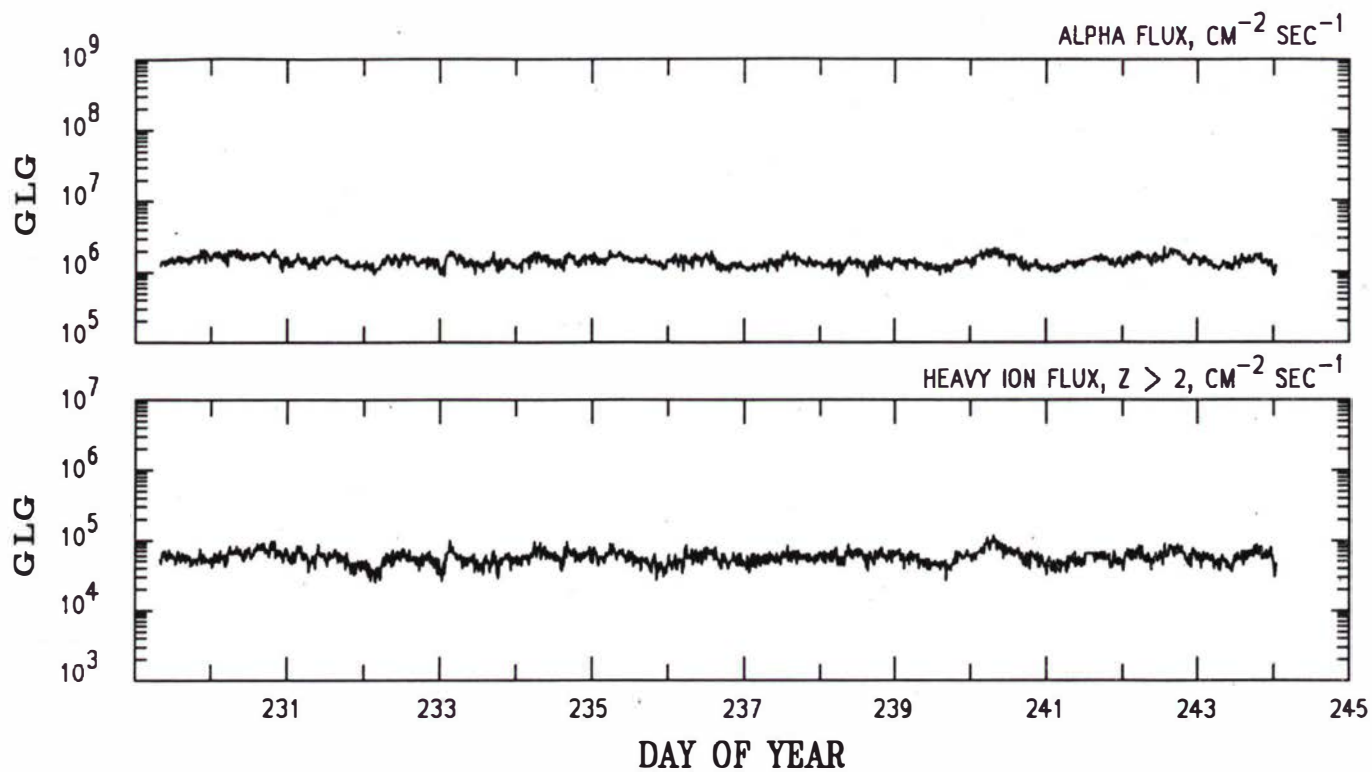
ULYSSES CDR - SOLAR WIND ION COMPOSITION

95 213 AUG 1 00:00:00.000 - 95 229 AUG 17 00:00:00.000



ULYSSES CDR - SOLAR WIND ION COMPOSITION

95 229 AUG 17 00:00:00.000 - 95 245 SEP 2 00:00:00.000



From SAHI@ssl.msfc.nasa.gov Thu Aug 3 12:43 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Thu, 3 Aug 1995 14:42:56 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3722

~~RF~~
No

BATSEARCH PROGRAM

BATSE BURST # 3722
EVENT OF 1995 AUG 1 DAY OF YEAR=213
EVENT CROSSING TIME AT BATSE : 28578. S. OR 07:56:18.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 138.000 8.000
BATSE PEAK COUNTING RATE: 9000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 1/ 8/ 95 IS:
RA= 143.973 DEC= 81.973 DIST= 2.252 AU
BATSE-ULYSSES DISTANCE = 336825668. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=105.98 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -309.36 SECS.
CROSSING TIME AT ULYSSES IS 28269. S. OR 07:51:08 +/- 232.82 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 1/ 8/ 95 IS:
RA= 185.934 DEC= -2.268 DIST= 1.857 AU
MARS-BATSE DISTANCE = 277845440. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=131.11 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -609.31 SECS.
CROSSING TIME AT MARS IS 27969. S. OR 07:46:08 +/- 111.99 SECONDS

BATSE BURST TRIGGER

NO.: 3722

TIME: TJD=9930 SECONDS=28578

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=112.1 AZIMUTH=13.0 ERROR=4.0 DEGREES

COMMENTS:

BURST. SINGLE PULSE, DUR.~ 0.5 SECS. NOT VISIBLE ABOVE 300 KEV.
THE ABOVE ERROR IS STATISTICAL, PLEASE ADD 1.5 FOR SYSTEMATIC ERROR.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3722	950801	9930	28578	9000	138	+08	.5

Date: Oct 28 '97

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

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

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)?
- ☐ 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?

This event was triangulated, but a second look indicated that it was too weak to detect reliably

☒ ACCESS database updated?

Too weak!

ULYSSES RT

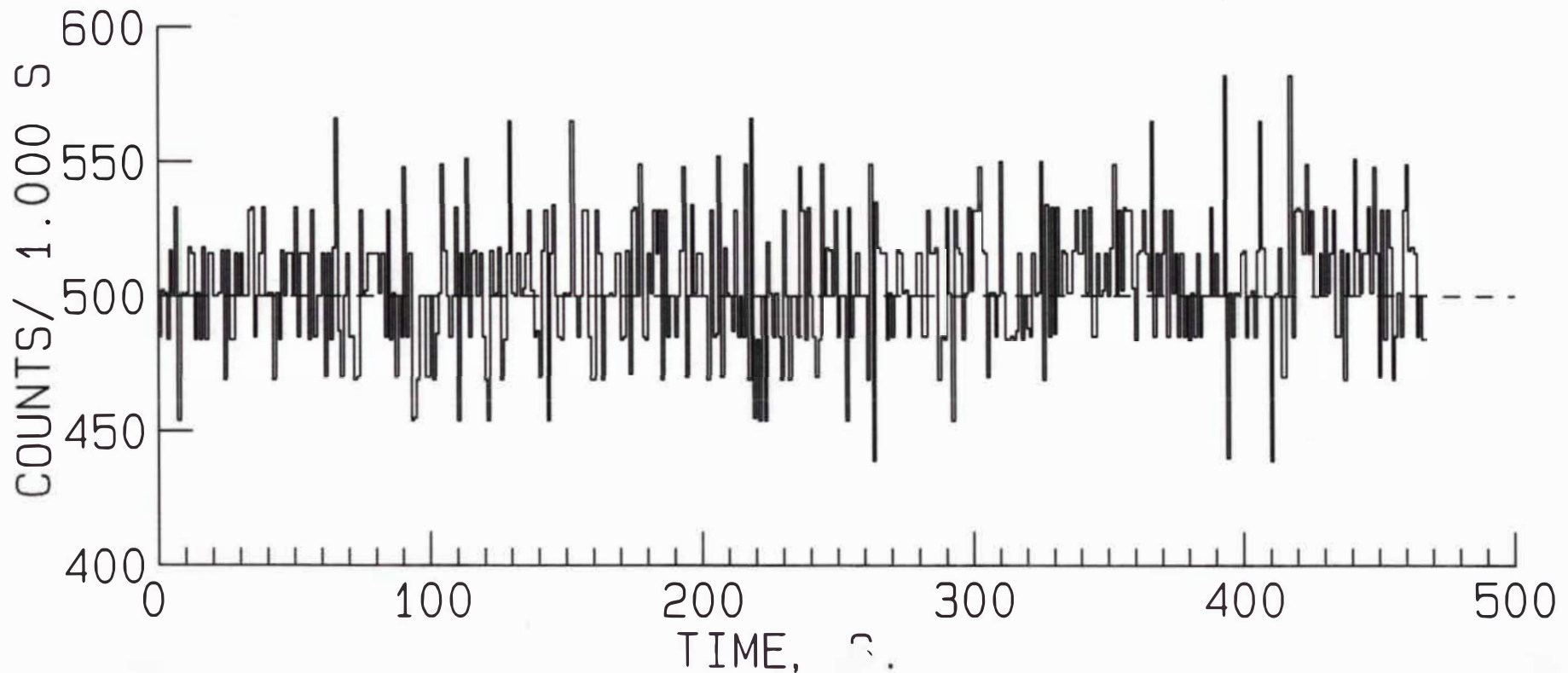
28/10/97

1/ 8/95 28044.248 s

0.250 S INTERVALS REGROUPED BY 4

21- 142 keV

N= 10 M= 1
>3.0 SIGMA FLUCTUATIONS



N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

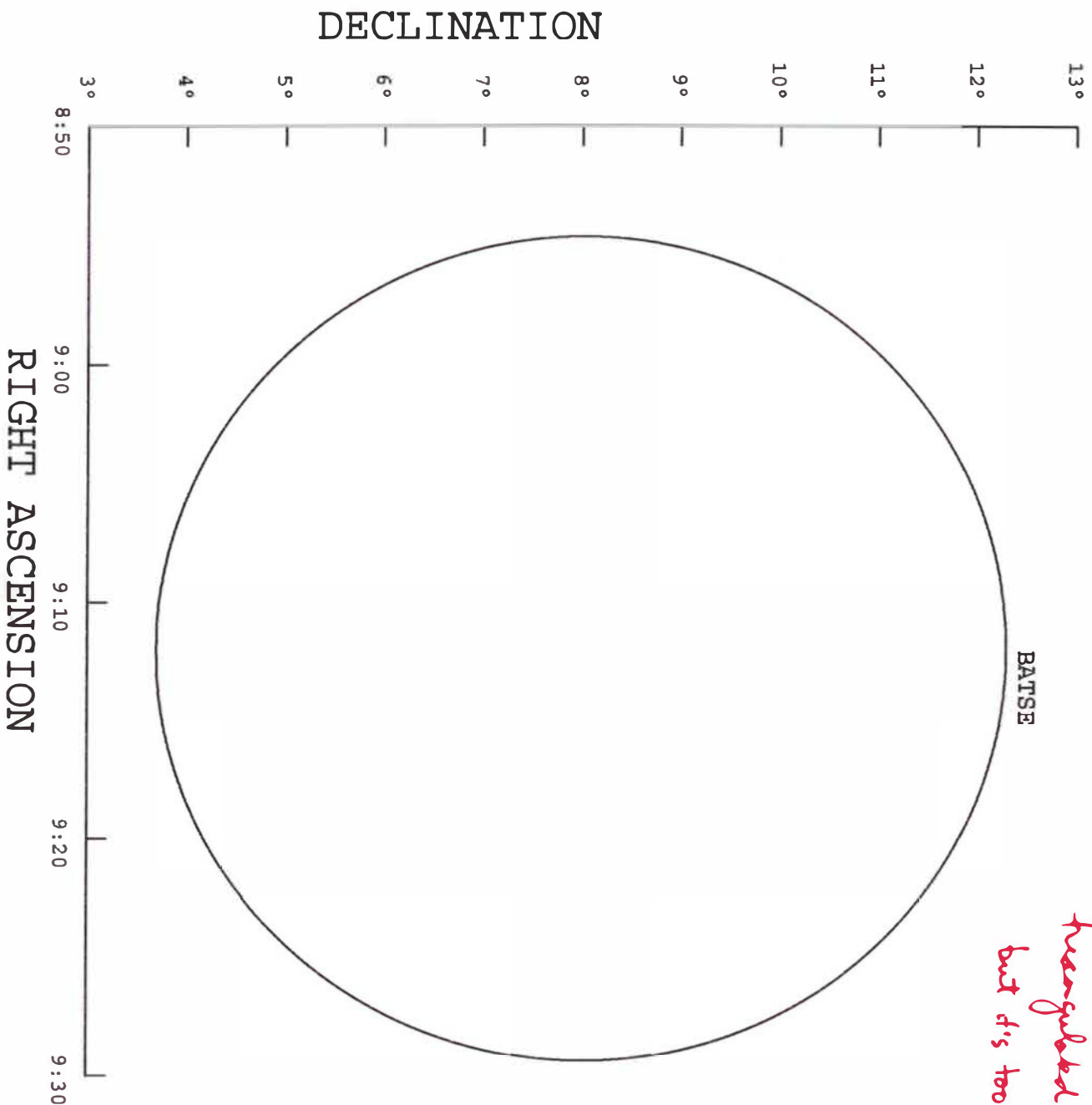
E=ECLIPTIC

G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF AUG 1, 1995 7:47



*Originally
transcribed,
but it's too weak*

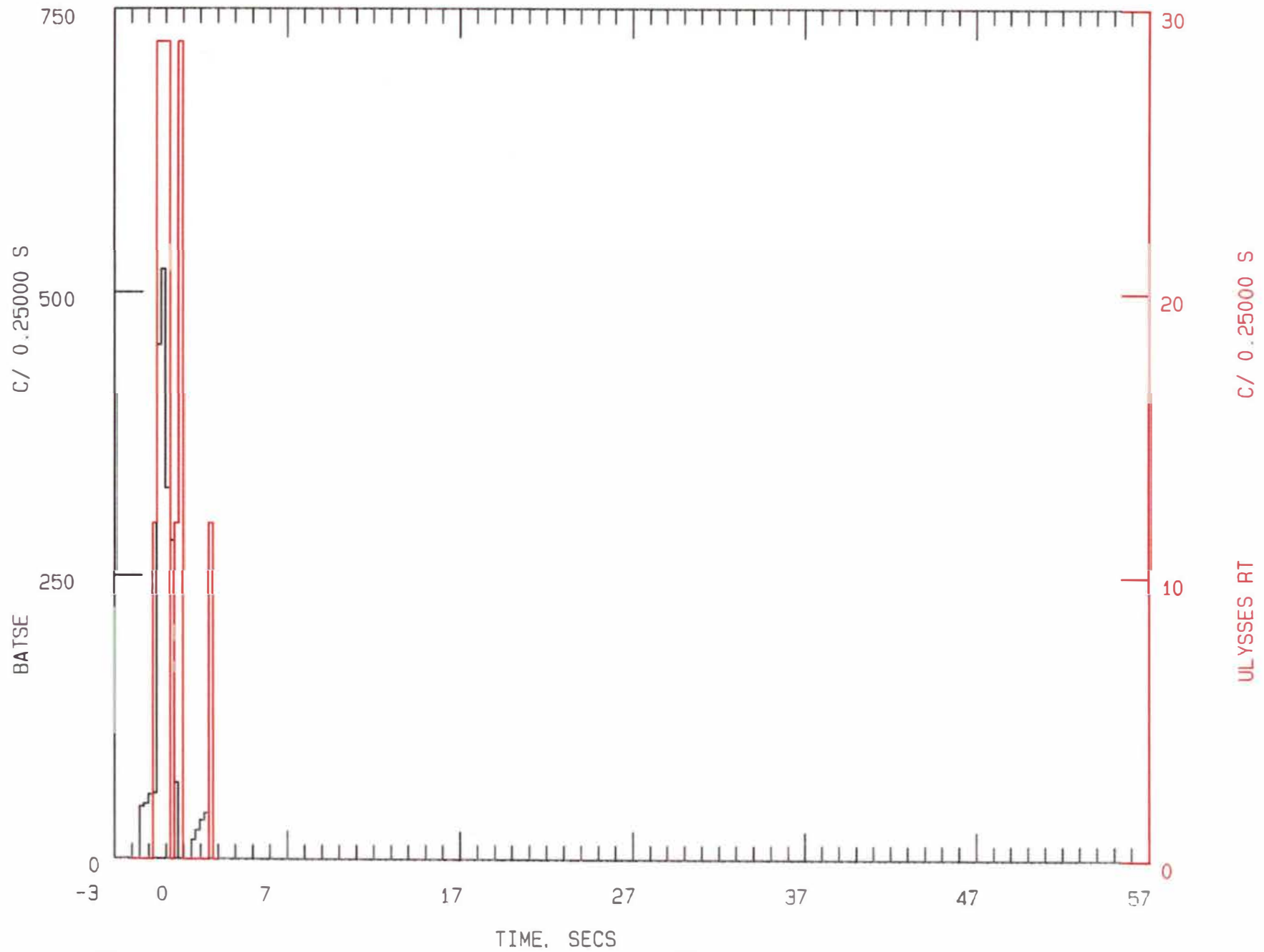
BATSE

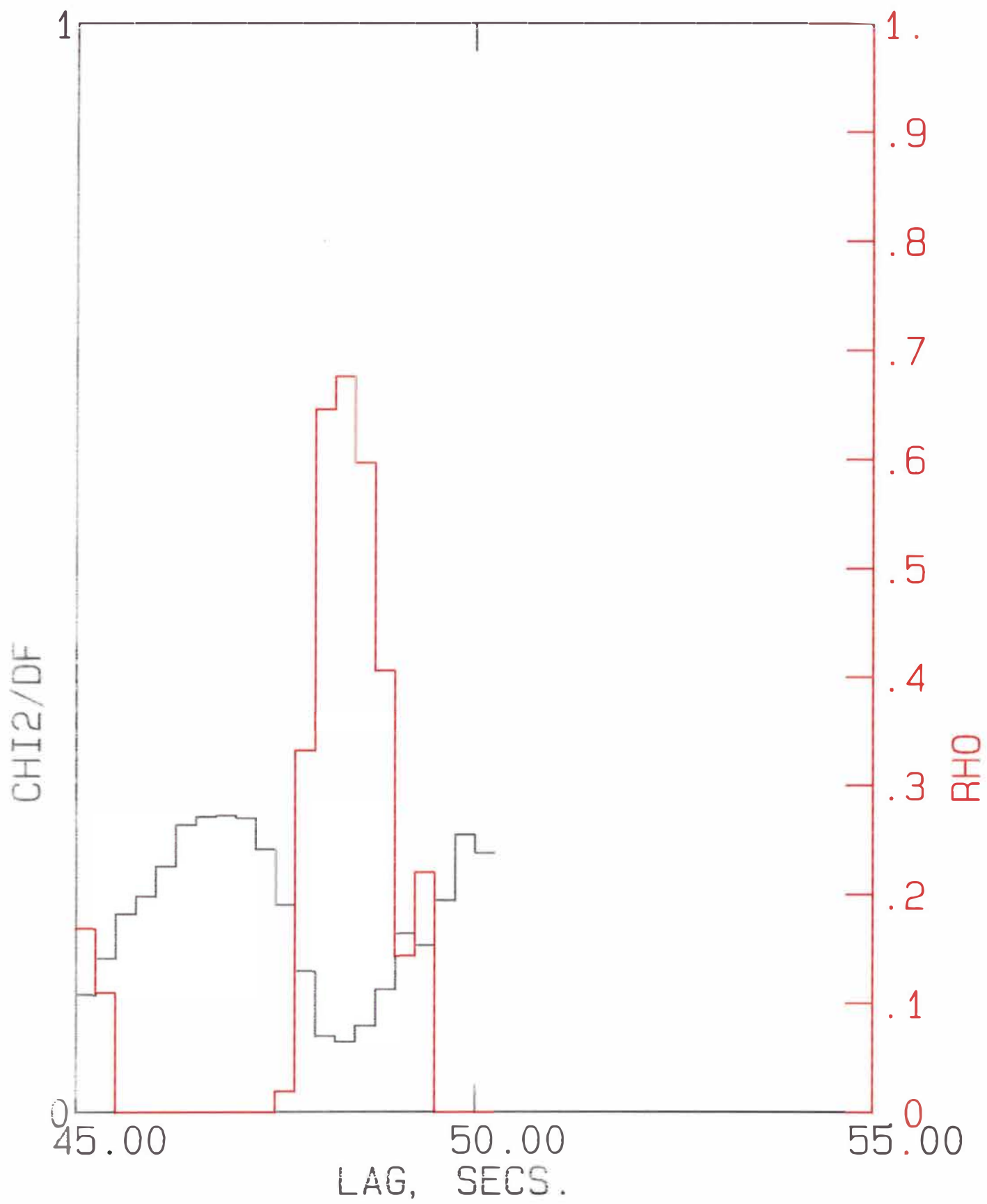
-ULYSSES RT CORRELATION

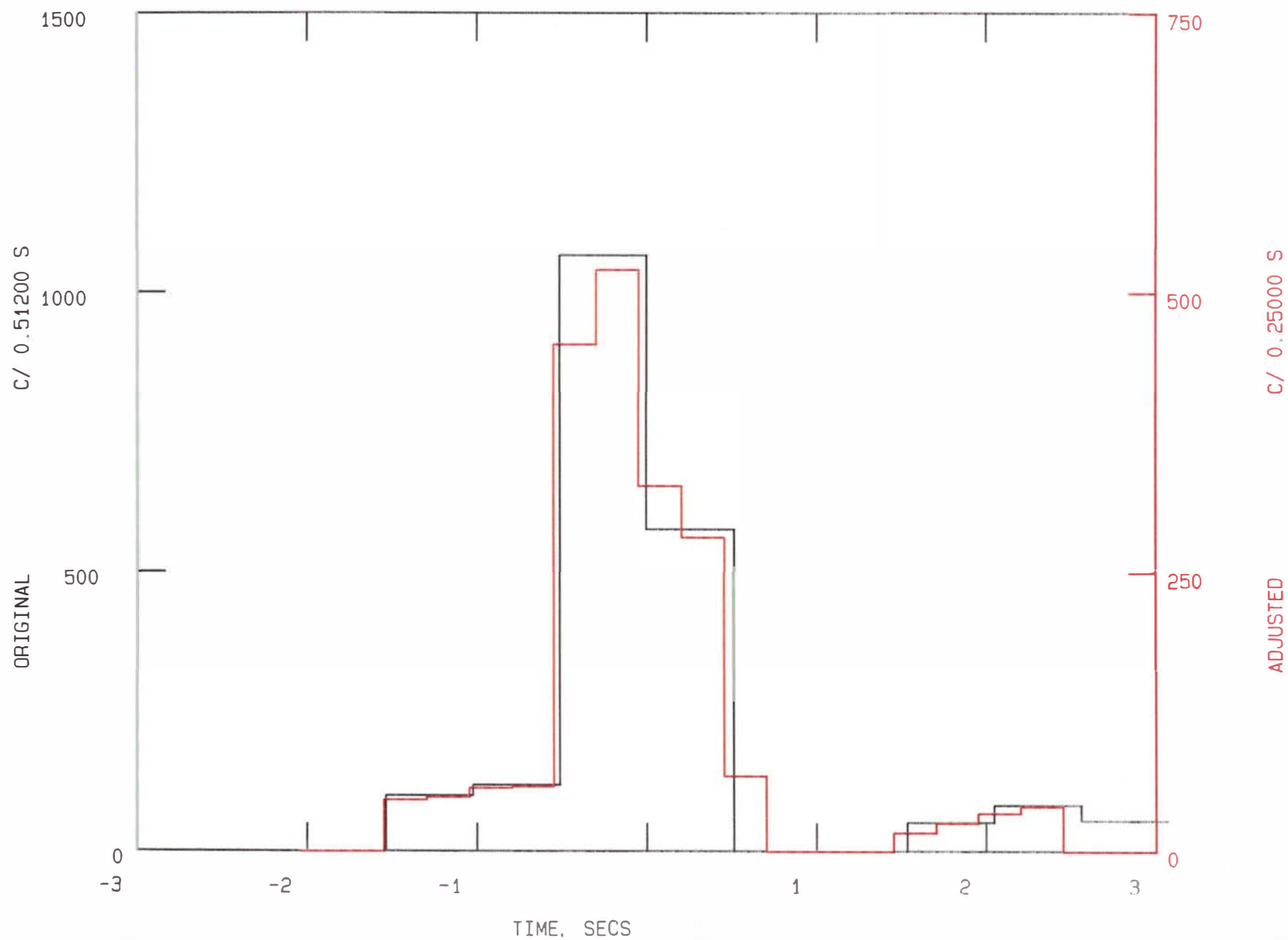
1/ 8/95

28578.994

13/ 2/96







ULYSSES RT

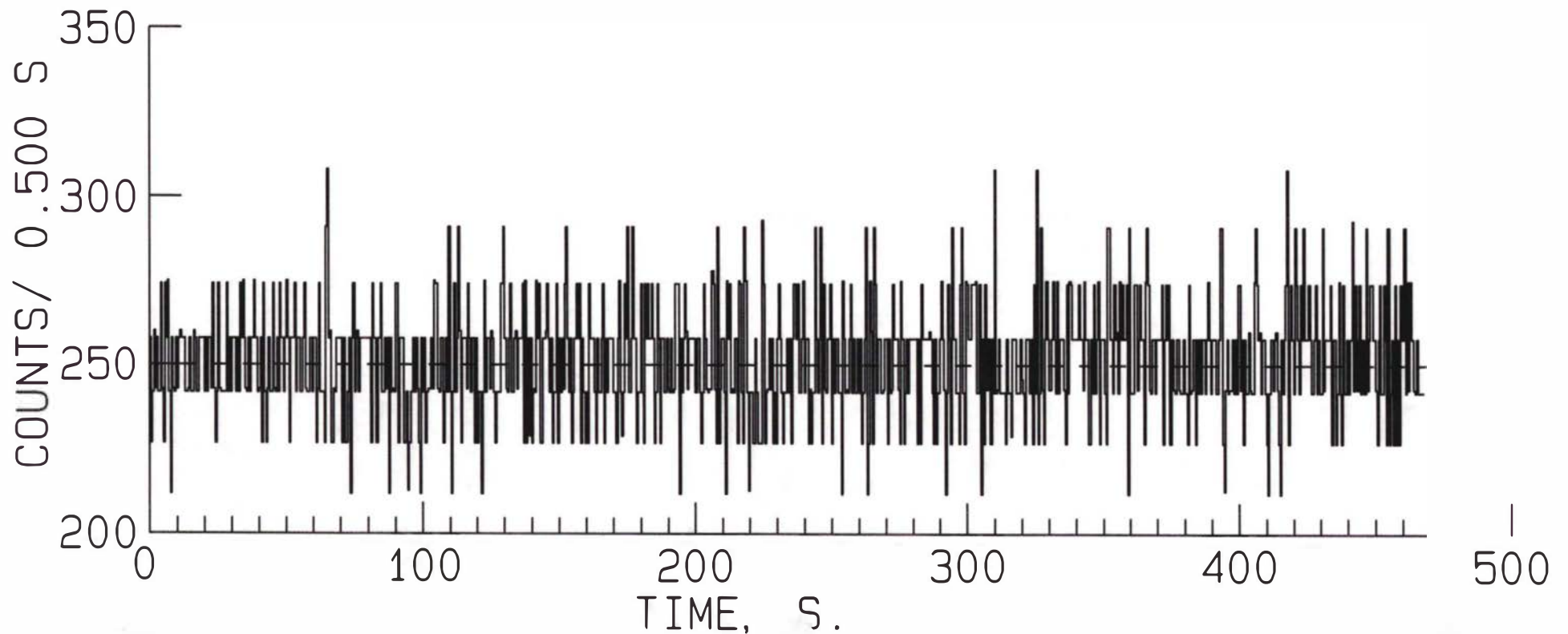
13 / 2 / 96

1 / 8 / 95 28044.248 s

0.250 S INTERVALS REGROUPED BY 2

21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



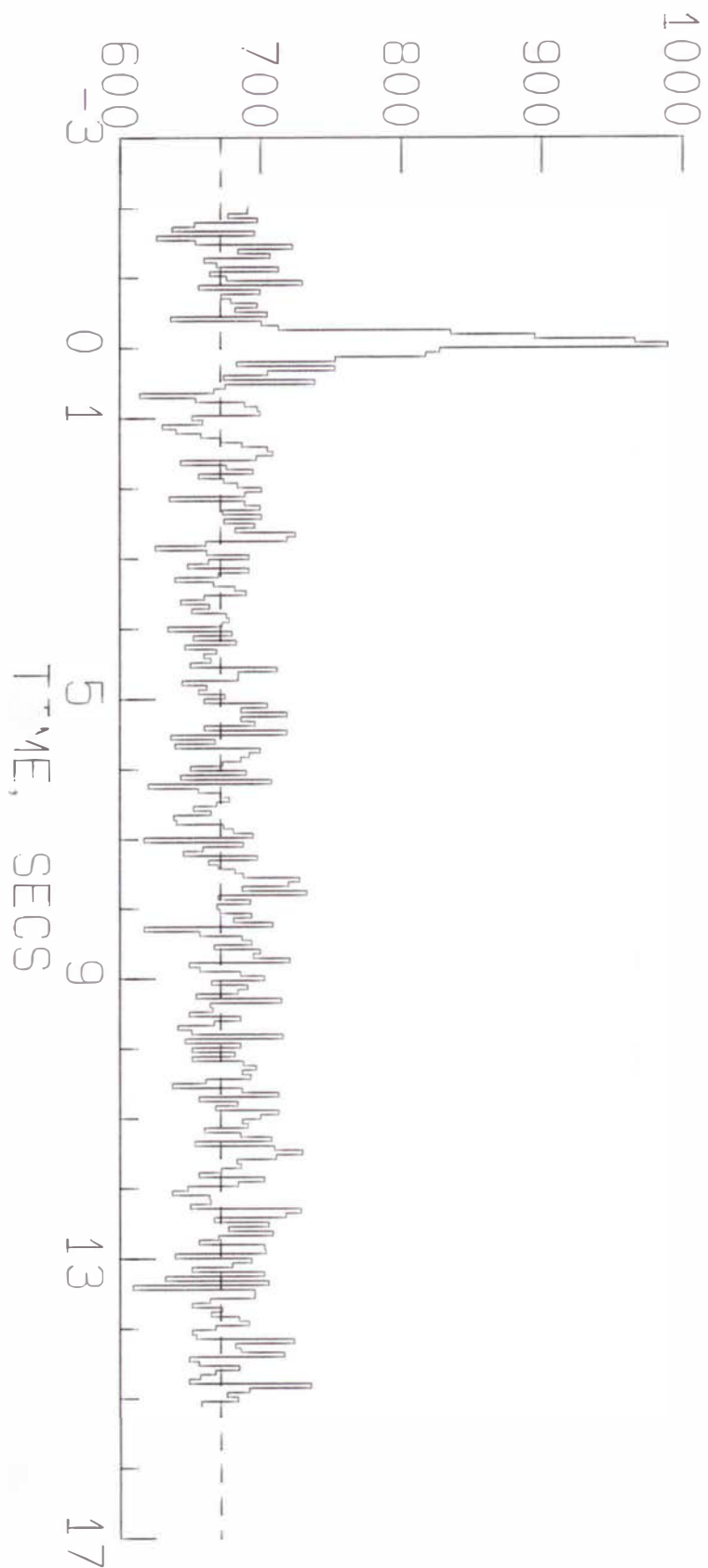
BATSE

01/08/95

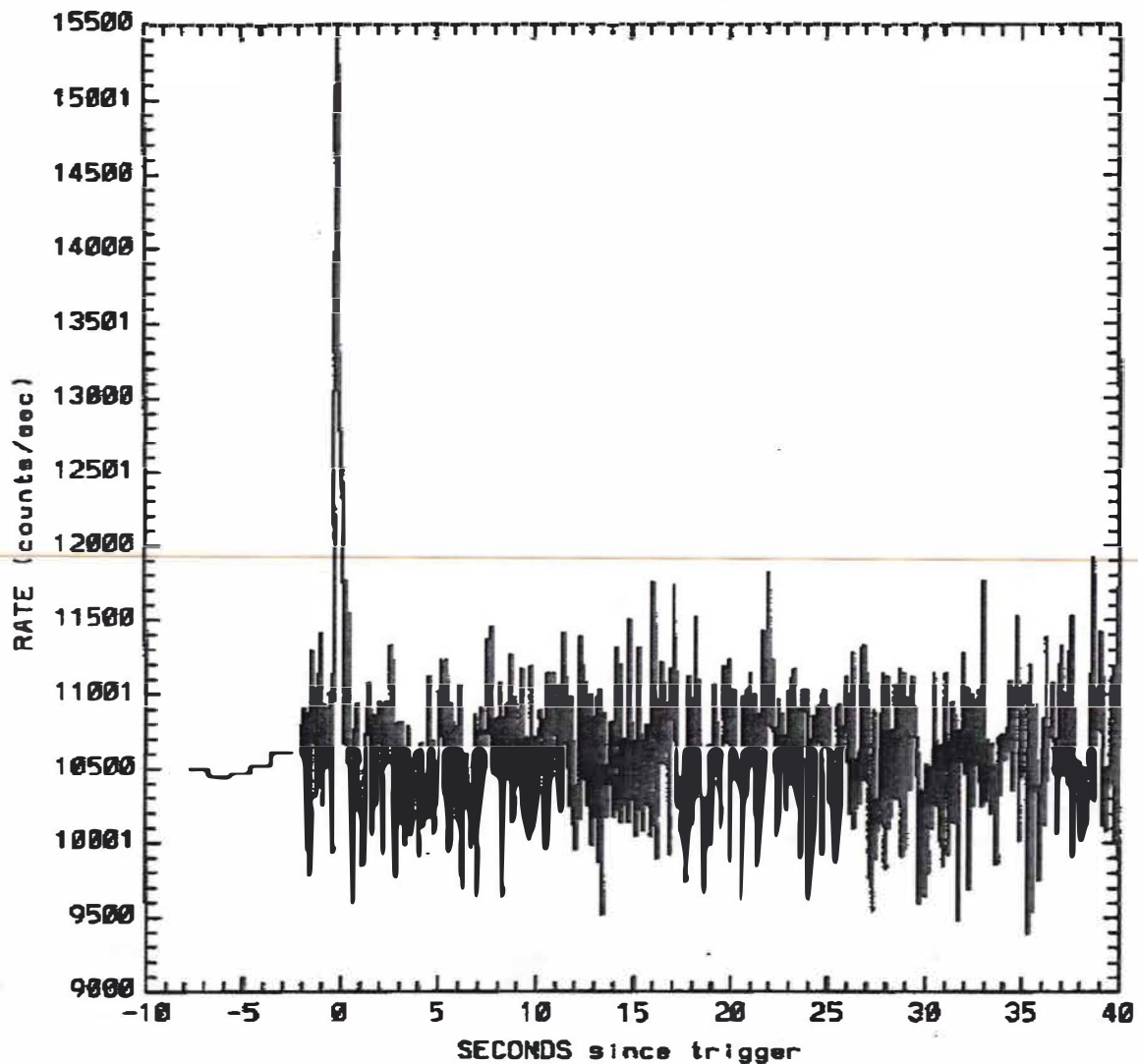
28578.994

25- 100 keV

COUNTS/ .064 S



DISCSC Data for K. Hurley, No. 3722



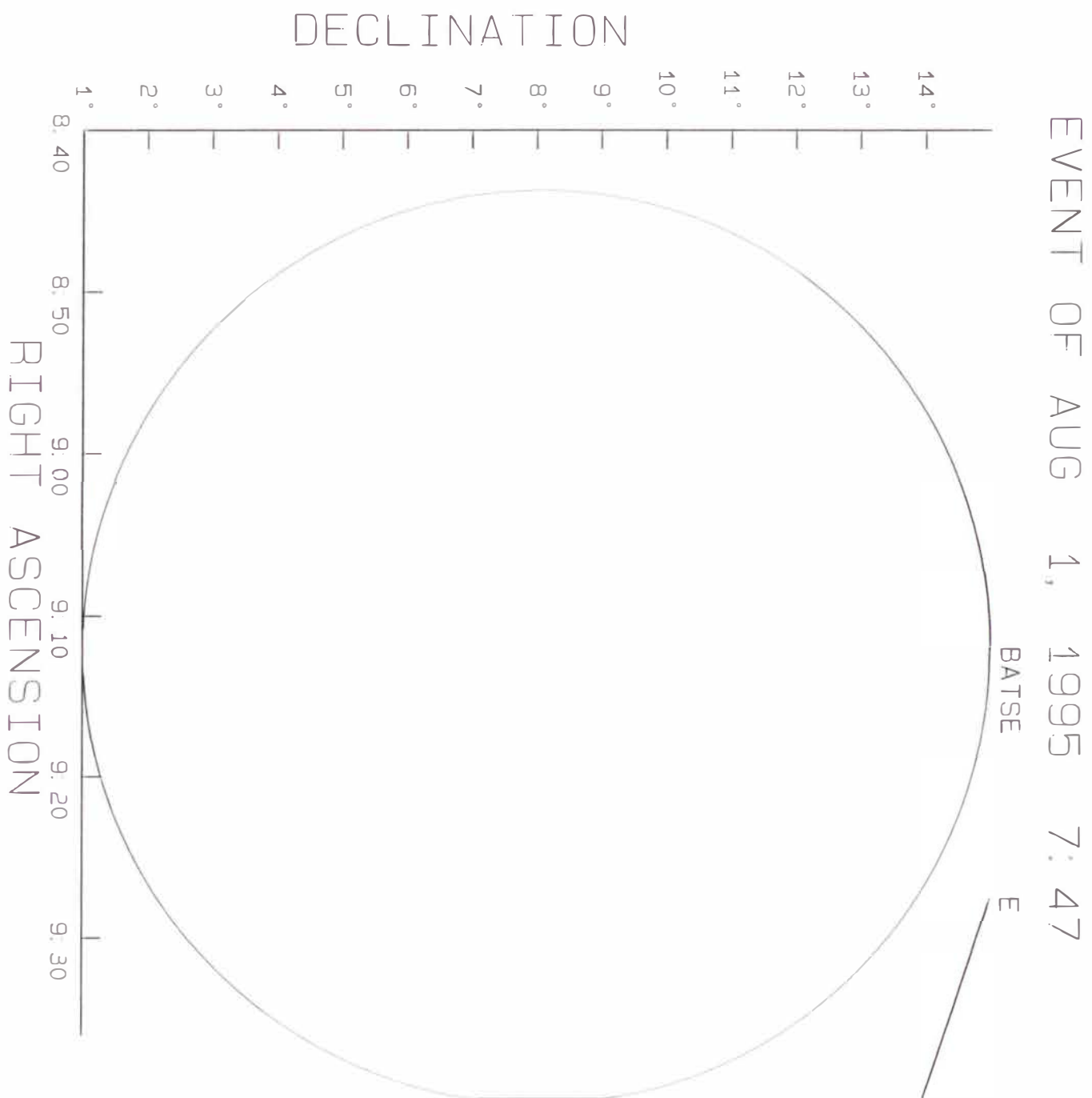
4-AUG-1995 18:29.83

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

Trigger # . 3722

Trigger Time:
9938 / 28578.994Burst Data Type:
DISCSCDeadtime
Corrected: NBackground Data
Type: PREB + DISCLAMinimum Integ. Time:
0.064 second(s)Detectors [7..0]:
--5-3-18Discriminators:
(1 . 2)Quality Mask:
80ISP1

EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 ULYSSES 2 BATSE



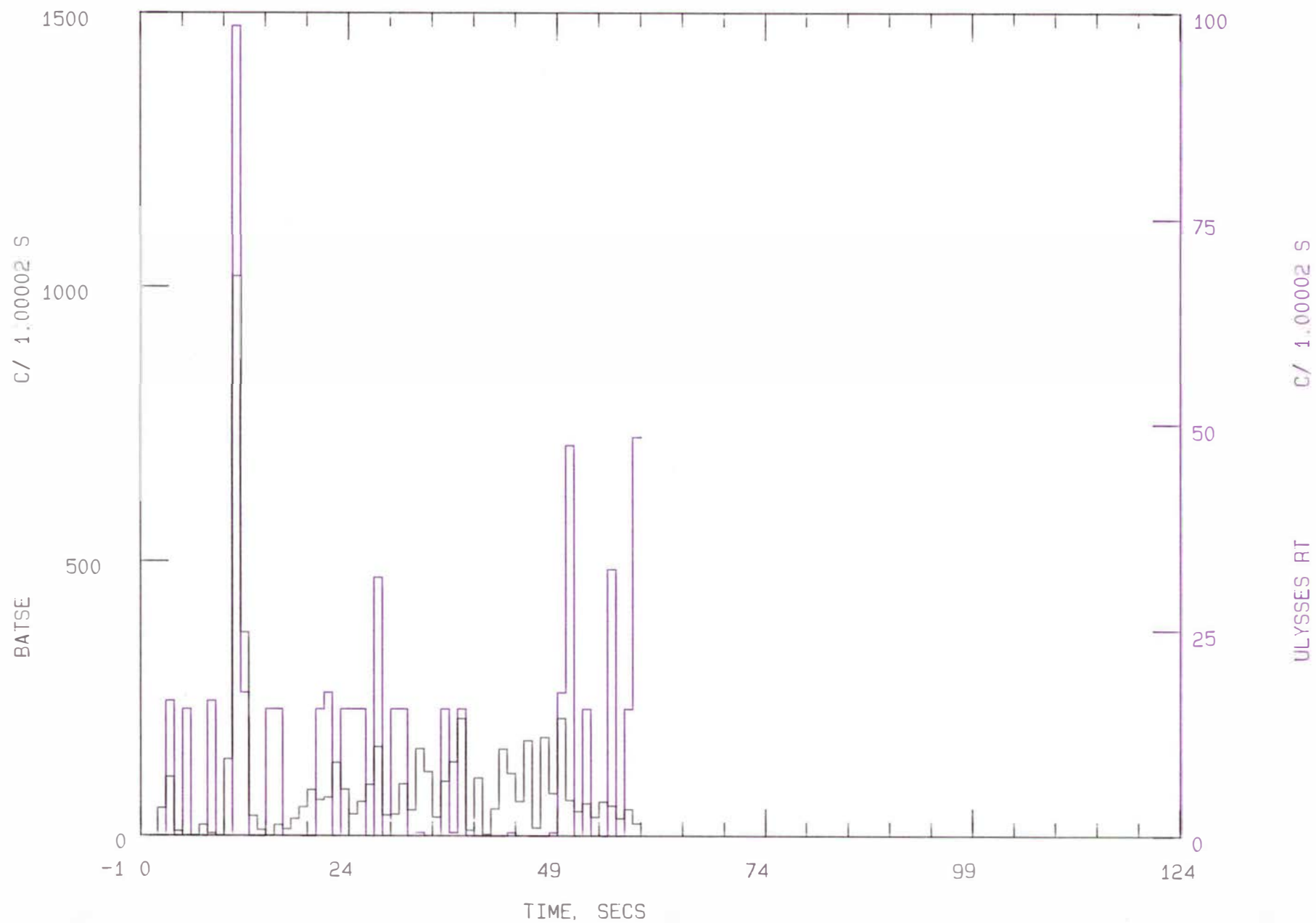
BATSE

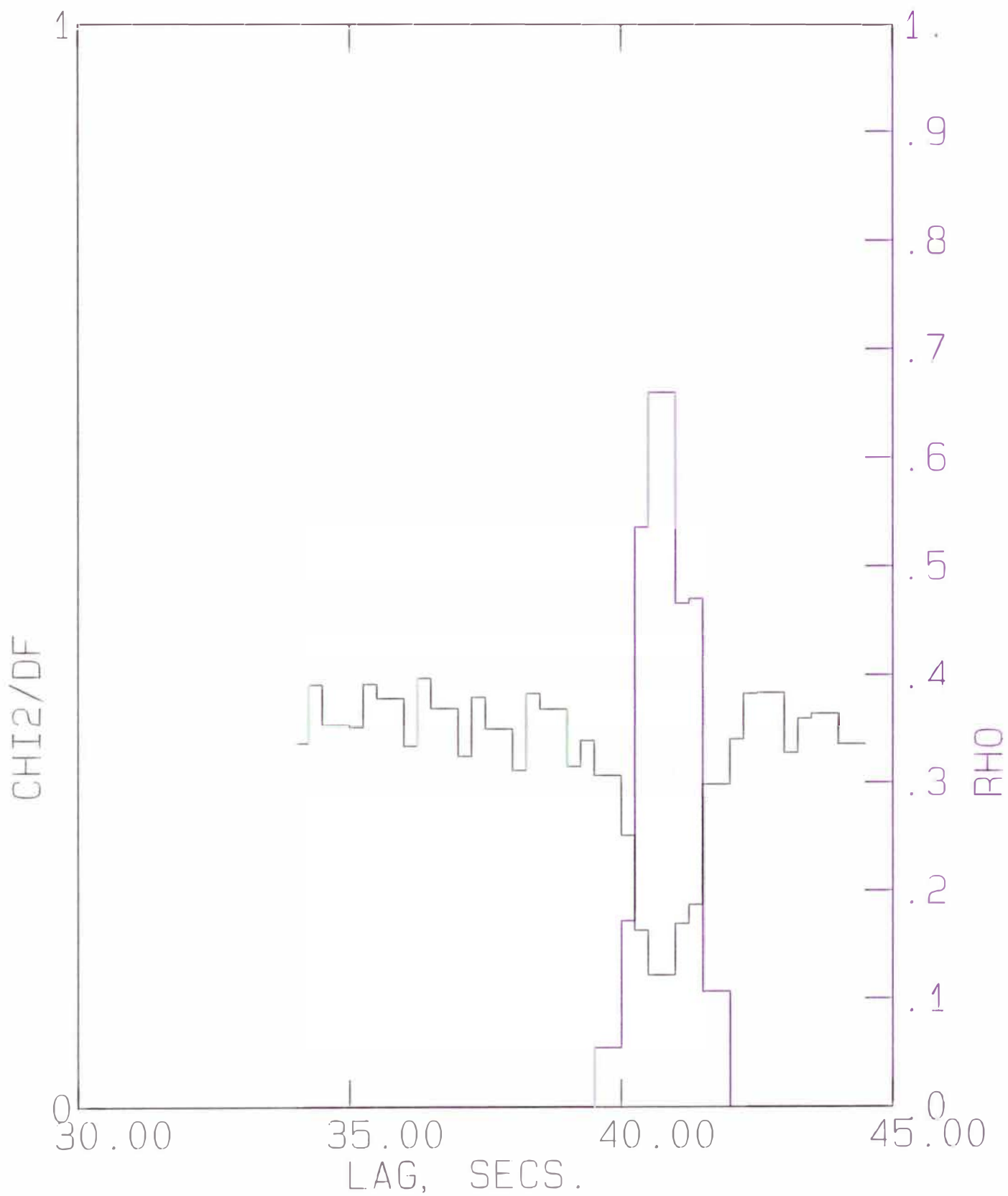
-ULYSSES RT CORRELATION

1/ 8/95

28568.241

4/ 8/95



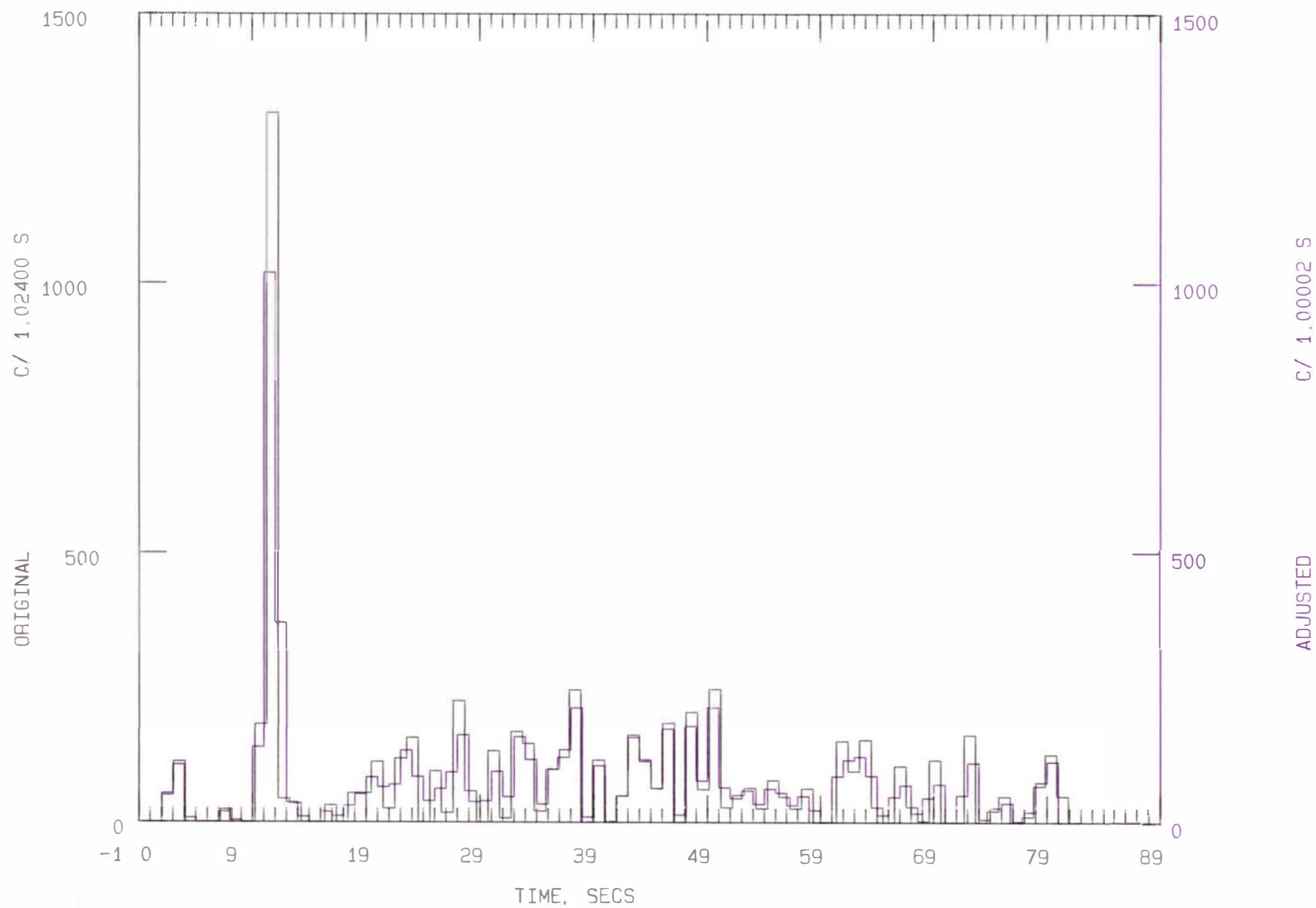


ORIGINAL AND ADJUSTED BATSE

TIME HISTORIES

1/ 8/95 28568.241

4/ 8/95



From SAHI@SSLLES.MSFC.NASA.GOV Thu Aug 3 11:52 PDT 1995
Date: Thu, 3 Aug 1995 13:52:17 -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.: 3723

TIME: TJD=9930 SECONDS=37625

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION.

From SAHI@SSLLES.MSFC.NASA.GOV Thu Aug 3 13:29 PDT 1995
Date: Thu, 3 Aug 1995 15:28:48 -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.: 3724

TIME: TJD=9930 SECONDS=47992

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
CYG X-1 FLUCTUATION.

From SAHI@SSLLES.MSFC.NASA.GOV Thu Aug 3 11:58 PDT 1995
Date: Thu, 3 Aug 1995 13:58:28 -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.: 3724

TIME: TJD=9930 SECONDS=47992

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
CYG X-1 FLUCTUATION.

From SAHI@SSLLES.MSFC.NASA.GOV Thu Aug 3 12:03 PDT 1995
Date: Thu, 3 Aug 1995 14:03:17 -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.: 3725

TIME: TJD=9930 SECONDS=54443

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
CYG X-1 FLUCTUATION.

1 / 8 / 95

ULYSSES RT

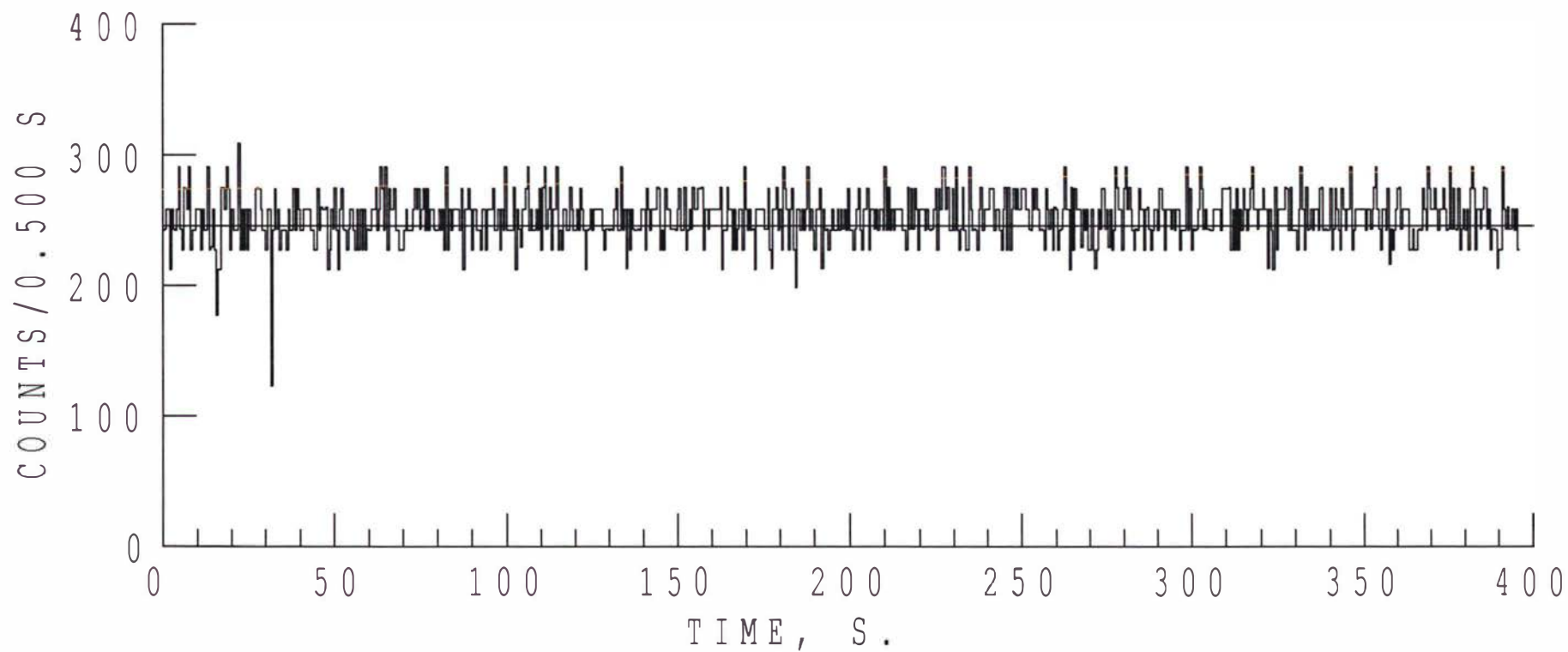
1 / 8 / 95 53640.195 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



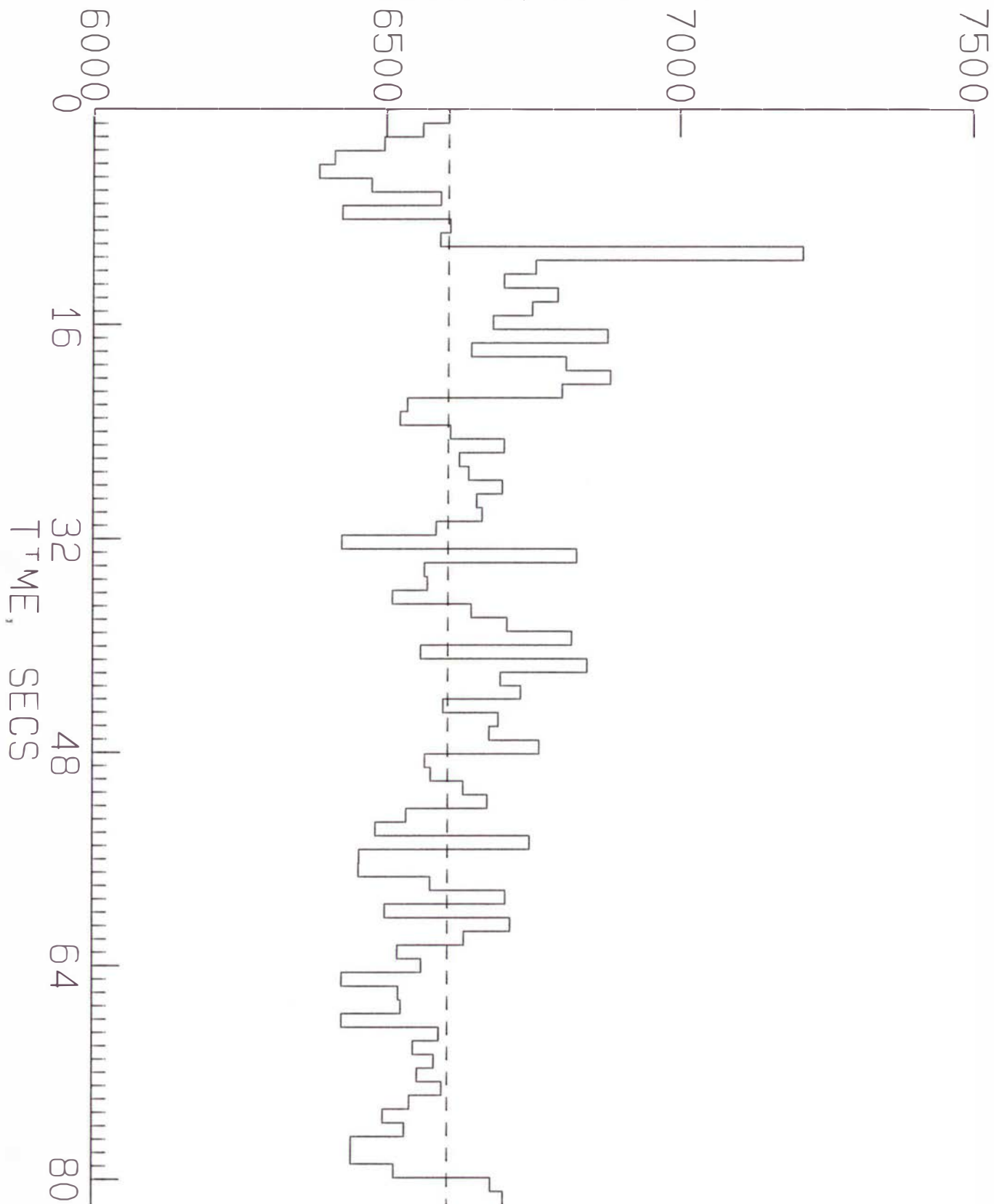
BACODINE

01/08/95

54432.433

25- 100 keV

COUNTS/1.024 S



From SAHI@ssl.msfc.nasa.gov Thu Aug 3 12:09 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Thu, 3 Aug 1995 14:09:07 -0500 (CDT)
To: burst@compTEL.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@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.: 3726

TIME: TJD=9930 SECONDS=67146

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION.

From SAHI@SSLLES.MSFC.NASA.GOV Thu Aug 3 12:15 PDT 1995
Date: Thu, 3 Aug 1995 14:15:02 -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.: 3727

TIME: TJD=9930 SECONDS=70486

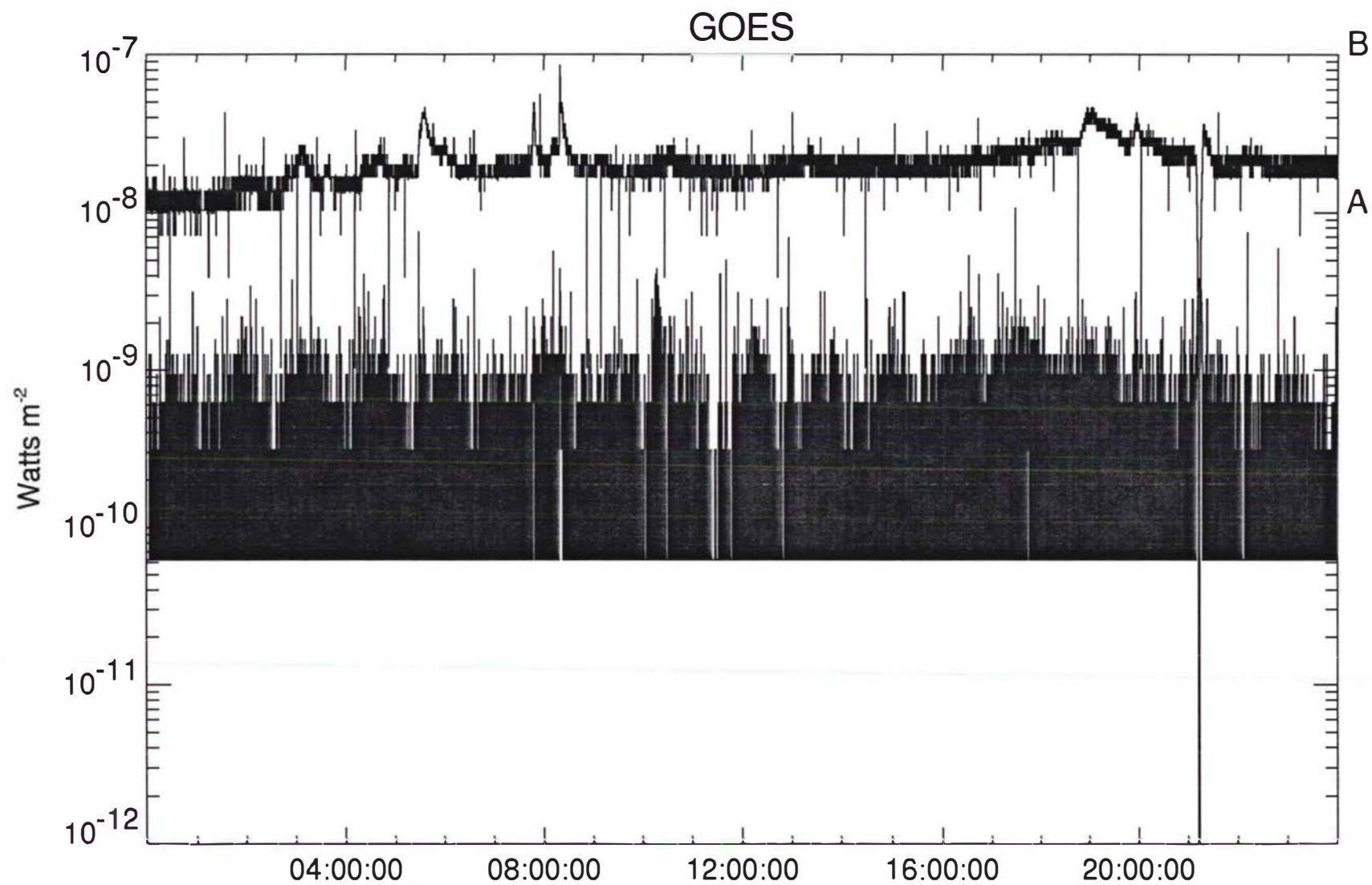
TYPE: CYG X-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
CYG X-1 FLUCTUATION.



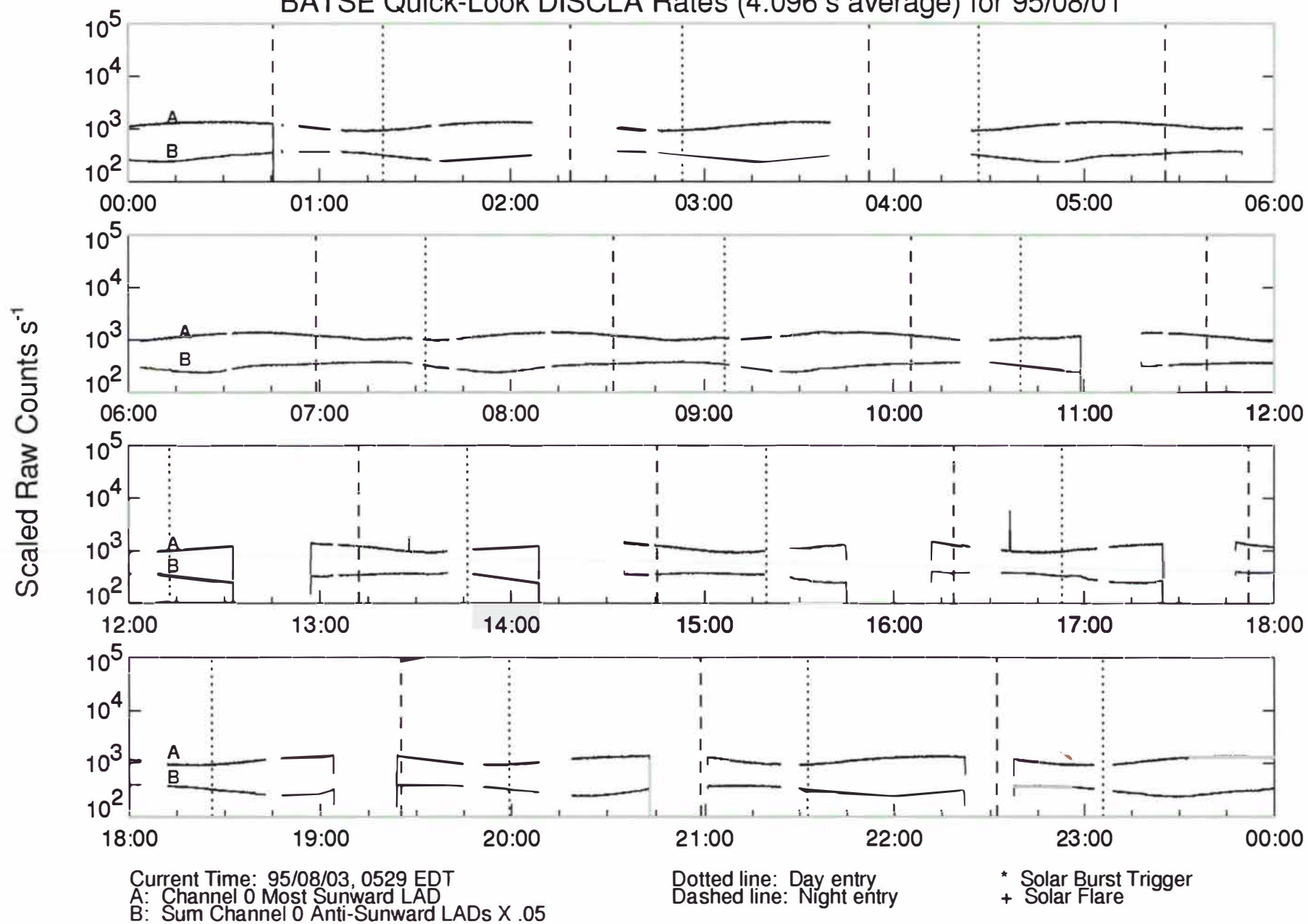
Data Start: 95/08/01, 0000:00

Plot created: 95/08/07, 1508

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

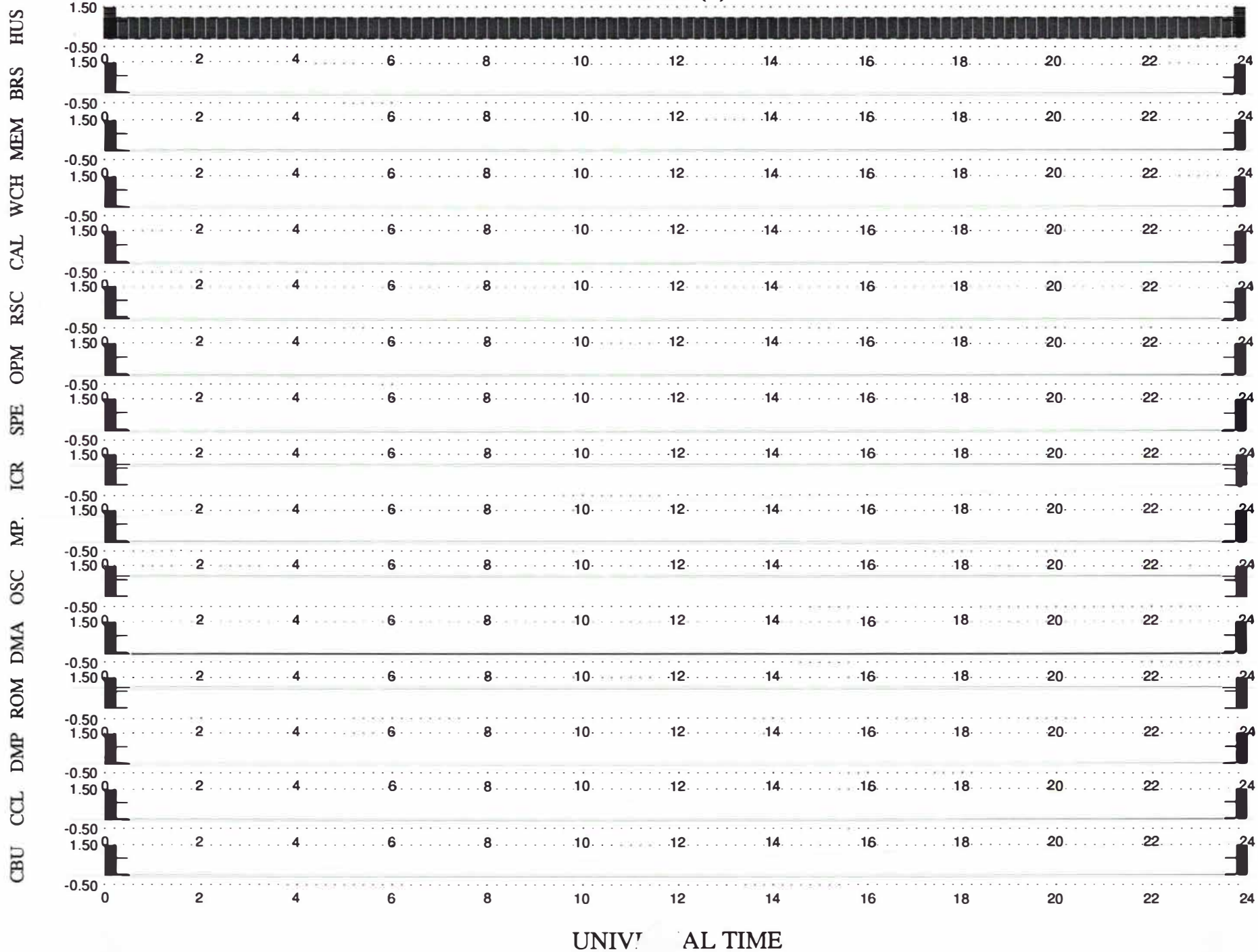
2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/01



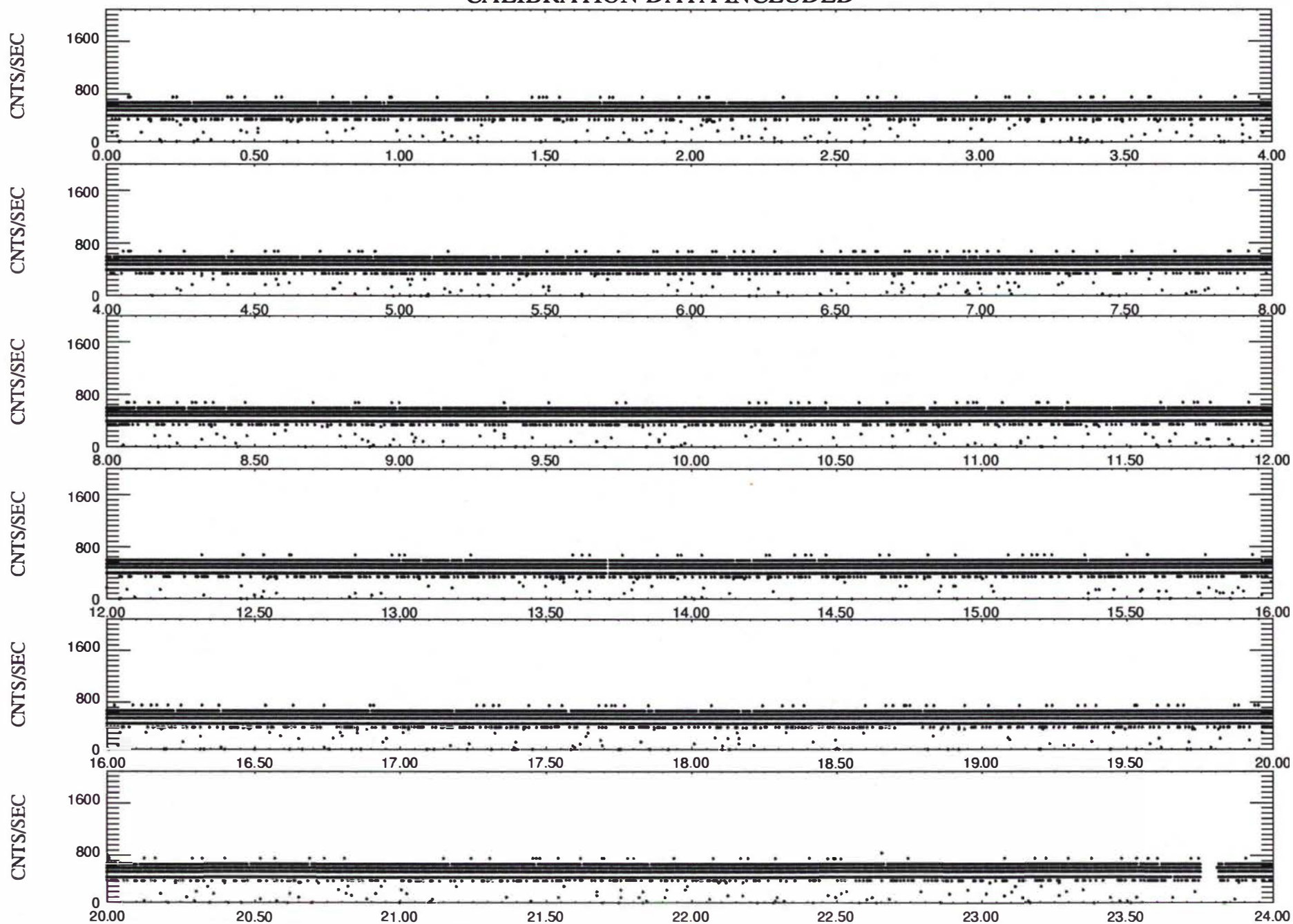
HUS MODES EDR day 213, year 1995 to day 213, year 1995 NO BURST (7)

1/25/96

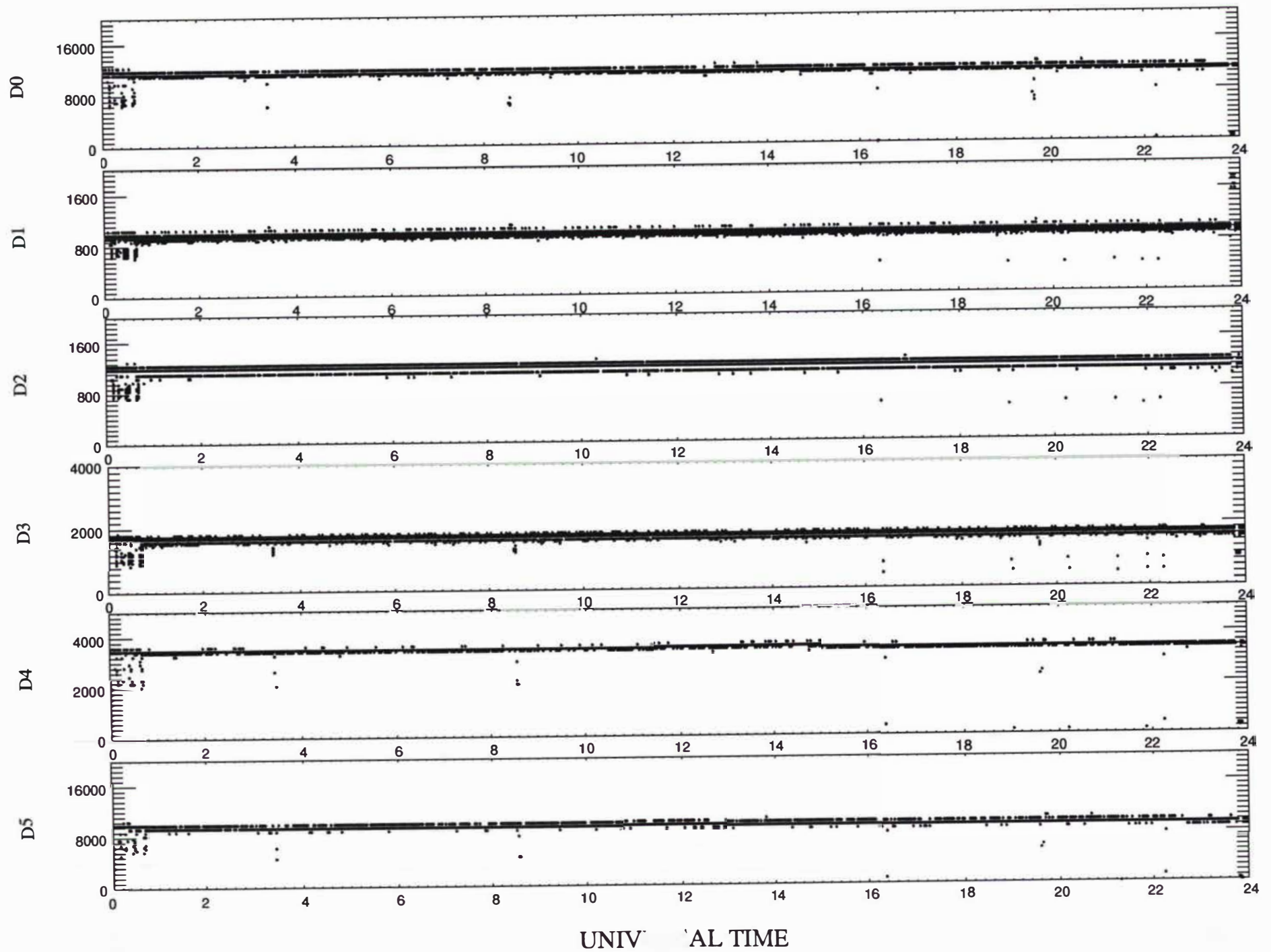


HUS 2A, MODE 1, NOT AVERAGED EDR day 213, year 1995 to day 213, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From RICHARDSON@SSLLES.MSFC.NASA.GOV Fri Aug 4 09:22 PDT 1995
Date: Fri, 4 Aug 1995 11:22:45 -0500 (CDT)
From: RICHARDSON@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3728

NO

BATSEARCH PROGRAM

BATSE BURST # 3728
EVENT OF 1995 AUG 2 DAY OF YEAR=214
EVENT CROSSING TIME AT BATSE : 20597. S. OR 05:43:17.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 29.000 -7.000
BATSE PEAK COUNTING RATE: 4750 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 2/ 8/ 95 IS:
RA= 147.128 DEC= 81.654 DIST= 2.259 AU
BATSE-ULYSSES DISTANCE = 337881174. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 79.13 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 212.45 SECS.
CROSSING TIME AT ULYSSES IS 20809. S. OR 05:46:49 +/- 245.39 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 2/ 8/ 95 IS:
RA= 186.487 DEC= -2.521 DIST= 1.863 AU
MARS-BATSE DISTANCE = 278740512. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 24.40 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 846.71 SECS.
CROSSING TIME AT MARS IS 21444. S. OR 05:57:23 +/- 79.55 SECONDS

BATSE BURST TRIGGER

NO.: 3728

TIME: TJD=9931 SECONDS=20597

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=22.1 AZIMUTH=285.1 ERROR=6.4 DEGREES

COMMENTS:

GRB. SINGLE SPIKE, DUR.~1SEC. NOT VISIBLE ABOVE 300KEV.
ABOVE ERROR IS THE STATISTICAL ERROR. ADD 1.5DEG. FOR SYSTEMATIC ERROR.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3728	950802	9931	20597	4750	029	-07	1

4 / 8 / 95

ULYSSES RT

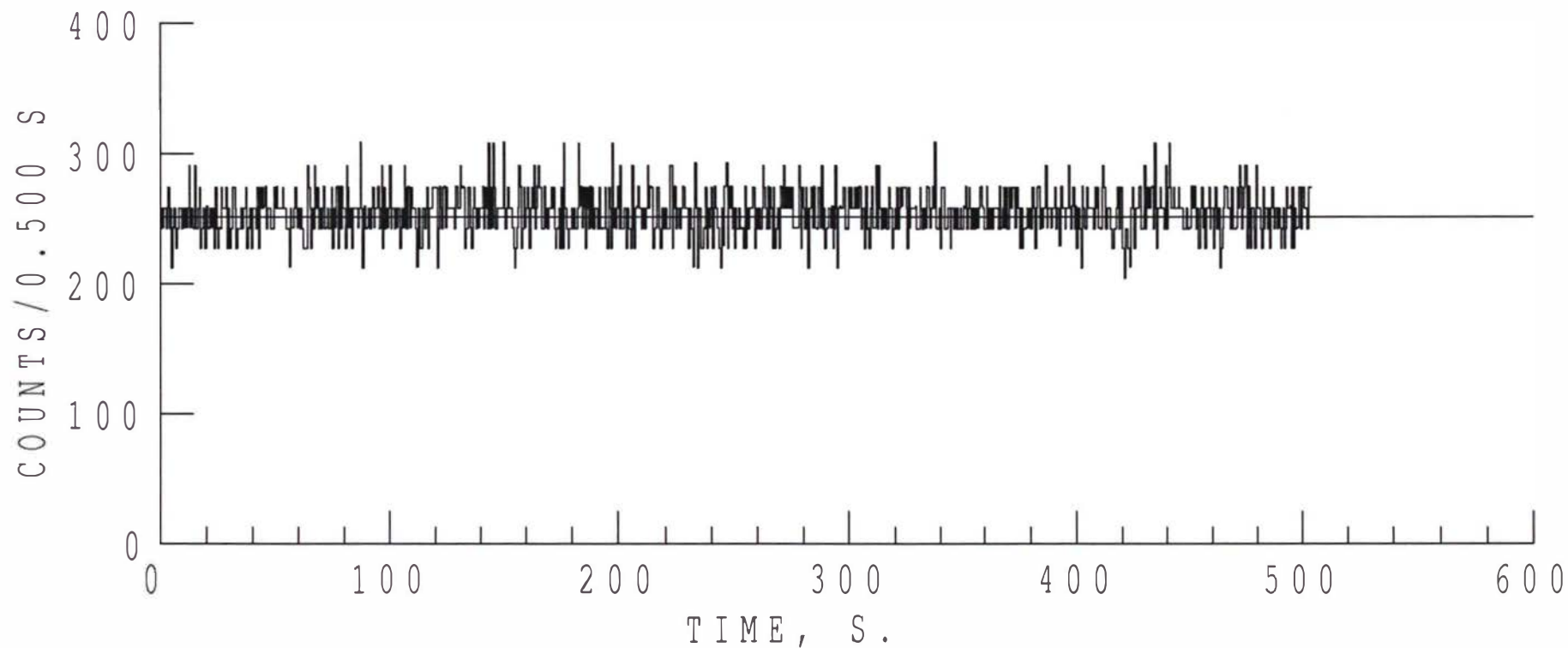
2 / 8 / 95 20556.133 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From RICHARDSON@ssl.msfc.nasa.gov Fri Aug 4 09:19 PDT 1995
From: RICHARDSON@ssl.msfc.nasa.gov
Date: Fri, 4 Aug 1995 11:18:53 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3729

TIME: TJD=9931 SECONDS=41669

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

SIGNIFICANCE: SIGMA

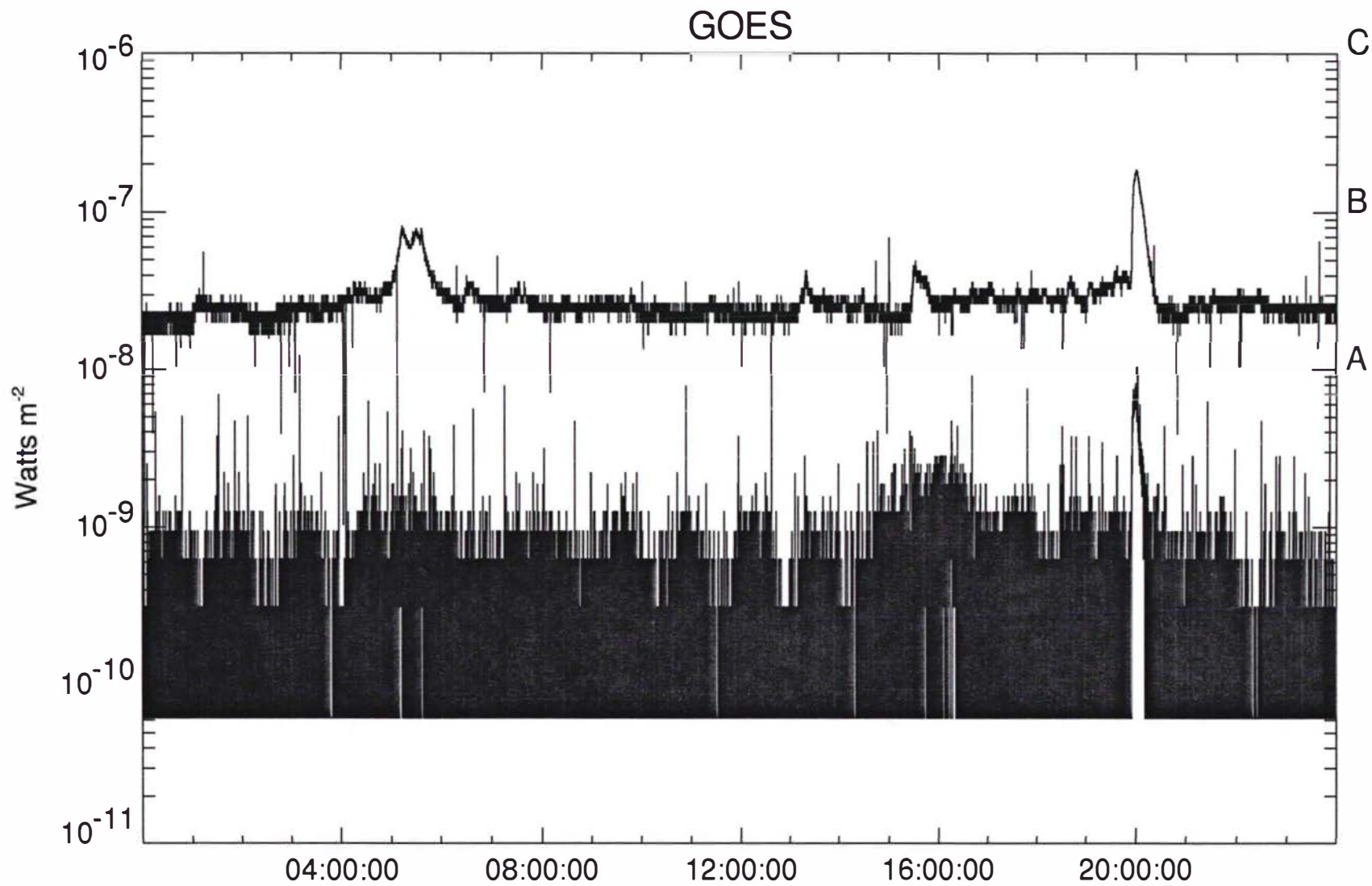
INTENSITY: COUNTS/CM2

LOCATION: ZENITH=73.4 AZIMUTH=164.3 ERROR=16.5 DEGREES

COMMENTS:

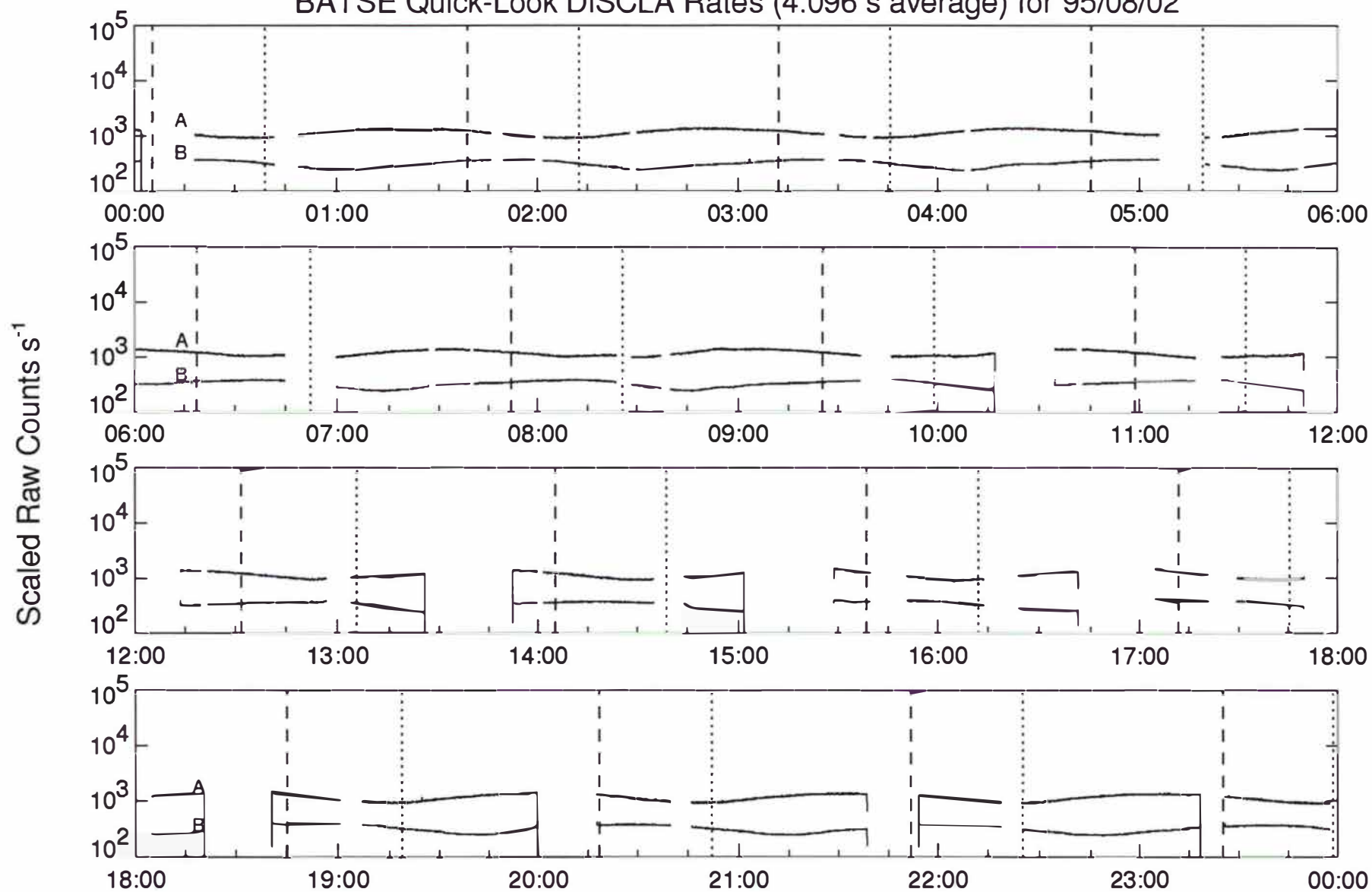
CYG X-1, NOT VISIBLE ABOVE 300KEV.

ABOVE ERROR IS THE STATISTICAL ERROR, ADD 1.5DEG. FOR SYSTEMATIC ERROR.



Data Start: 95/08/02, 0000:01 Plot created: 95/08/07, 1512
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 95/08/02



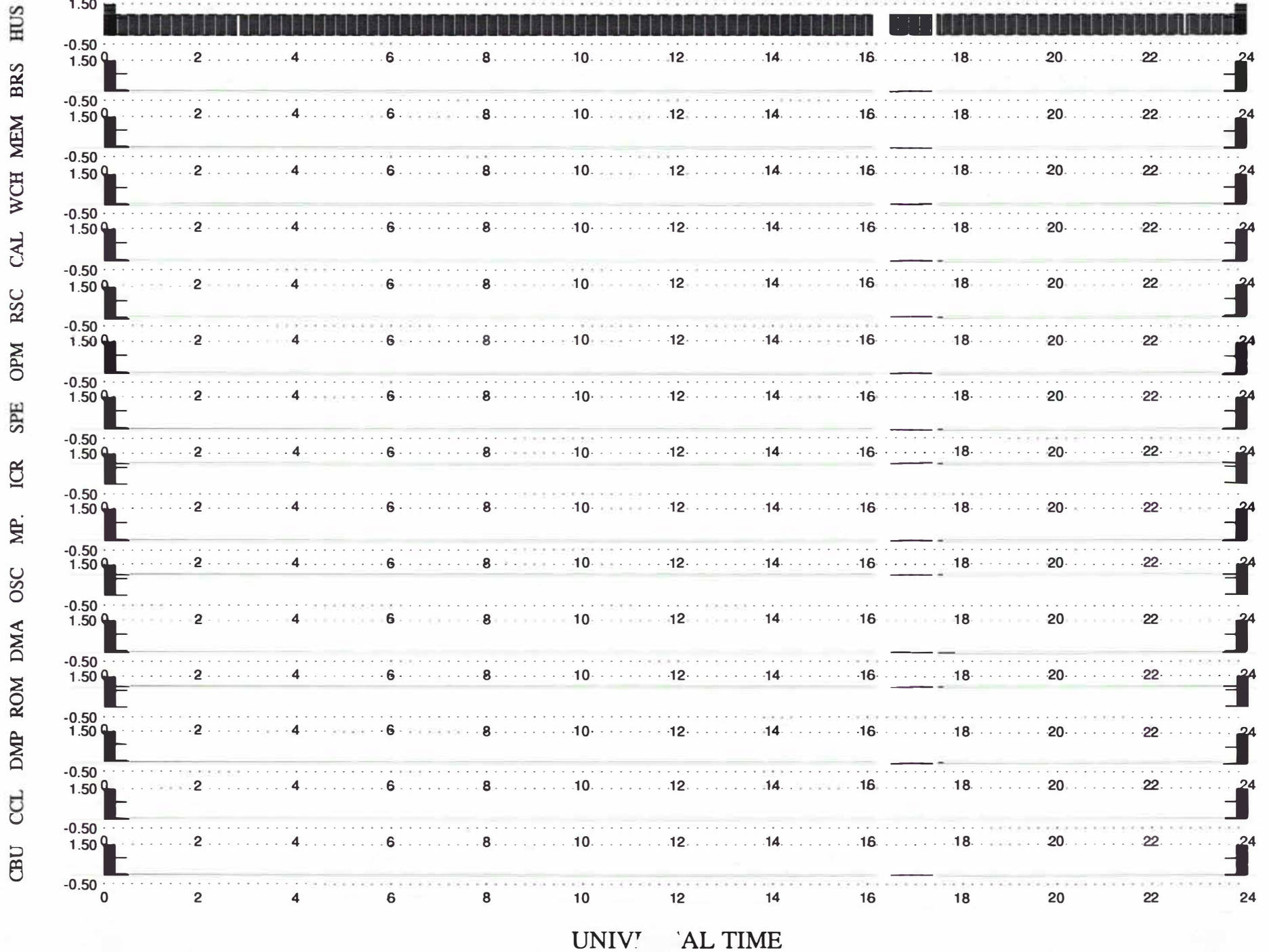
Current Time: 95/08/04, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

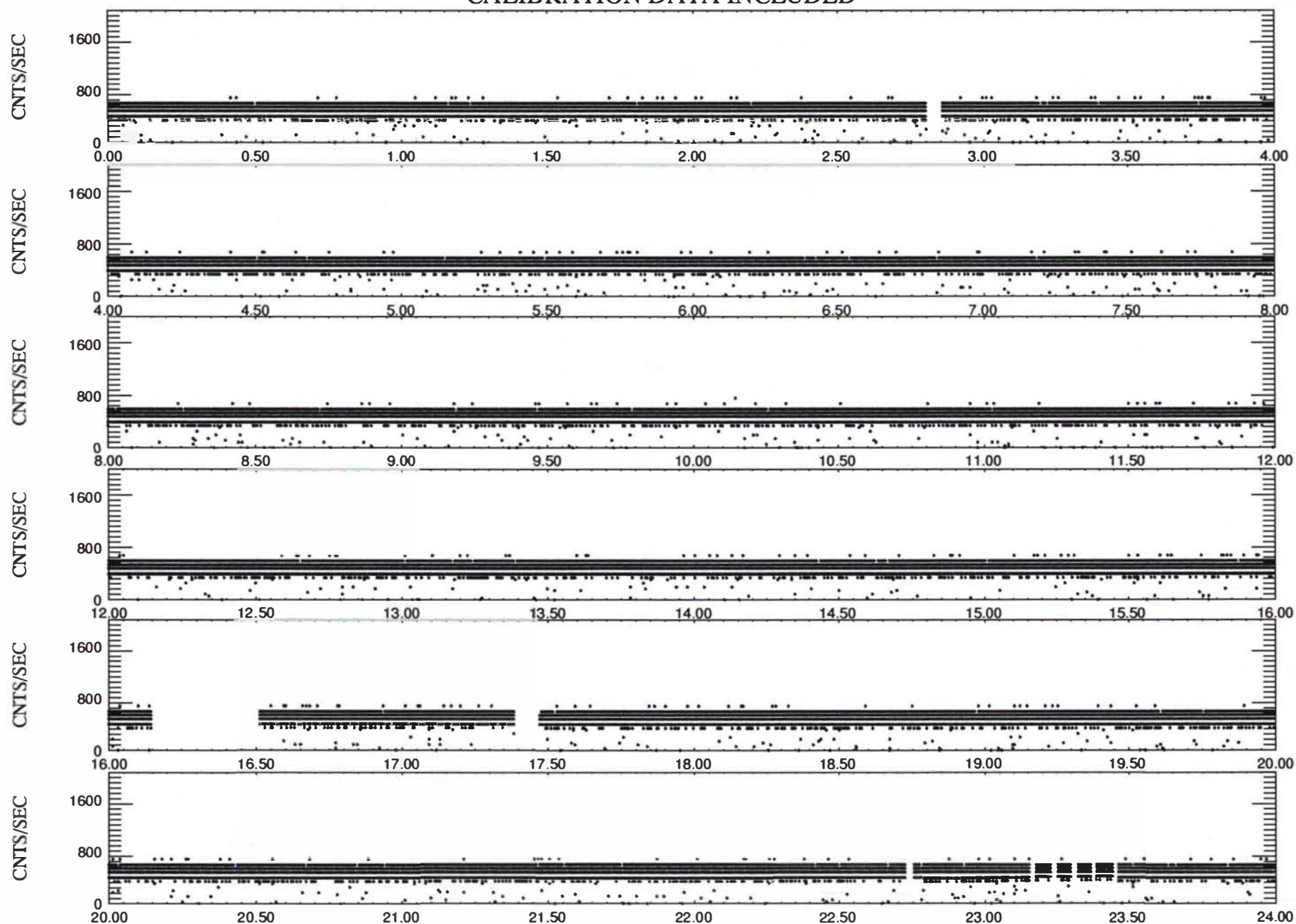
HUS MODES EDR day 214, year 1995 to day 214, year 1995
NO BURST (7)

1/25/96

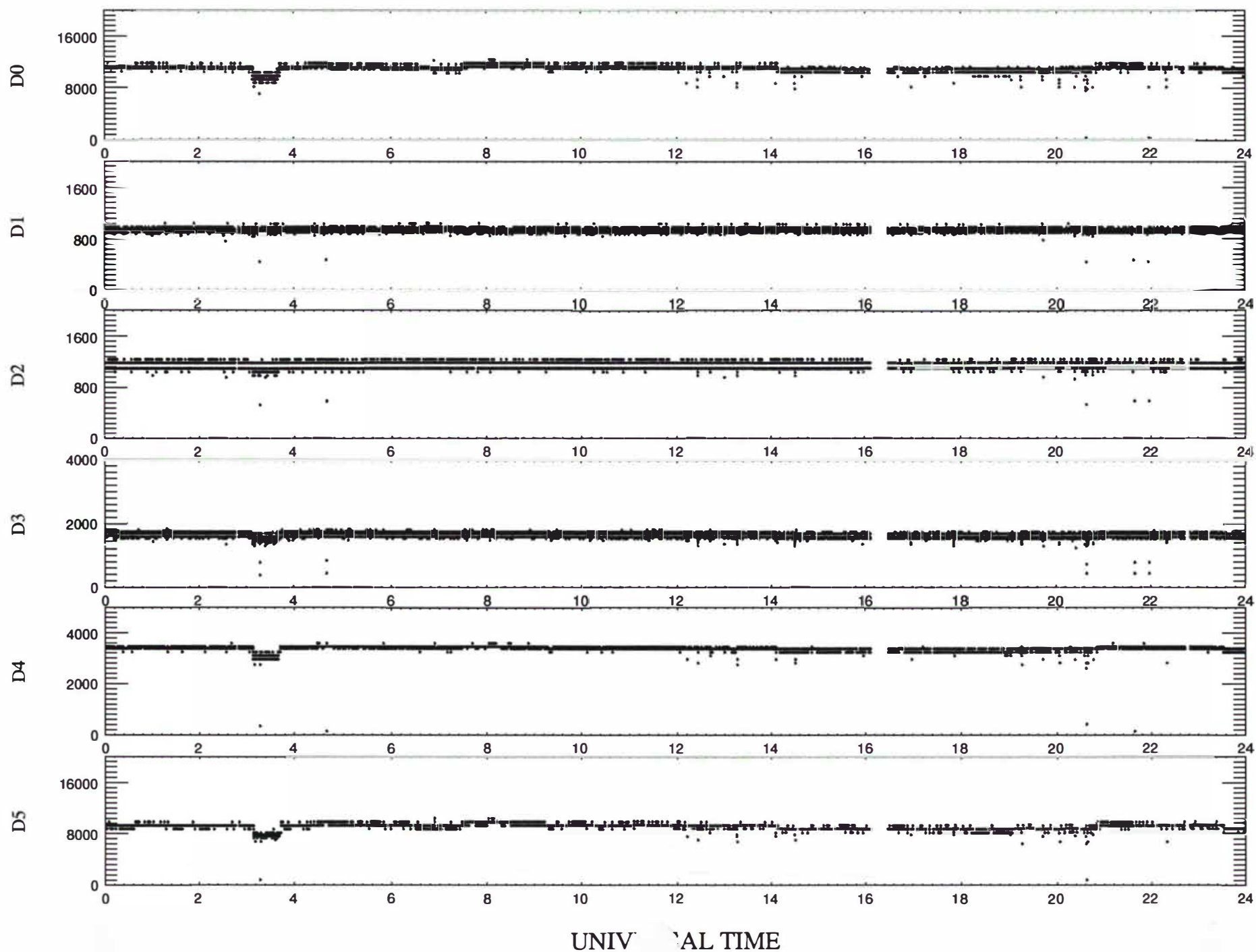


HUS 2A, MODE 1, NOT AVERAGED EDR day 214, year 1995 to day 214, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From DEAL@SSLLES.MSFC.NASA.GOV Mon Aug 7 09:50 PDT 1995
Date: Mon, 7 Aug 1995 11:50:18 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3730

TIME: TJD=9932 SECONDS=03167

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=82.8 AZIMUTH=157.8 ERROR=11.9 DEGREES

COMMENTS:

CYGX-1 LASTING ~ 125 S. NOT VISIBLE ABOVE 300 KEV.
THE ERROR ABOVE IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

From DEAL@SSLLES.MSFC.NASA.GOV Mon Aug 7 09:53 PDT 1995
Date: Mon, 7 Aug 1995 11:53:11 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3731

TIME: TJD=9932 SECONDS=25756

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: N SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=78.6 AZIMUTH=156.2 ERROR=18.2 DEGREES

COMMENTS:

CYG X-1 LASTING ~ 20 S. NOT VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

From DEAL@SSLLES.MSFC.NASA.GOV Mon Aug 7 09:56 PDT 1995
Date: Mon, 7 Aug 1995 11:55:43 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3732

TIME: TJD=9932 SECONDS=31523

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=87.7 AZIMUTH=136.4 ERROR=18.9 DEGREES

COMMENTS:

CYG X-1 LASTING ~ 15 S. NOT VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

From DEAL@ssl.msfc.nasa.gov Mon Aug 7 10:17 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Mon, 7 Aug 1995 12:17:30 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3733

BATSEARCH PROGRAM

BATSE BURST # 3733 100
EVENT OF 1995 AUG 3 DAY OF YEAR=215
EVENT CROSSING TIME AT BATSE : 65571. S. OR 18:12:51.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 135.000 58.000
BATSE PEAK COUNTING RATE: 3000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 3/ 8/ 95 IS:
RA= 151.870 DEC= 81.083 DIST= 2.271 AU
BATSE-ULYSSES DISTANCE = 339670608. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=156.41 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1038.30 SECS.
CROSSING TIME AT ULYSSES IS 64533. S. OR 17:55:32 +/- 112.97 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 3/ 8/ 95 IS:
RA= 187.042 DEC= -2.775 DIST= 1.869 AU
MARS-BATSE DISTANCE = 279628832. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=106.53 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -265.38 SECS.
CROSSING TIME AT MARS IS 65306. S. OR 18:08:25 +/- 151.22 SECONDS
BATSE BURST TRIGGER

NO.: 3733

TIME: TJD=9932 SECONDS=65571

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL: N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=88.9 AZIMUTH=58.7 ERROR=10.1 DEGREES

COMMENTS:
BURST LASTING ~ 5 S. NOT VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3733	950803	9932	65571	3000	135	+58	5

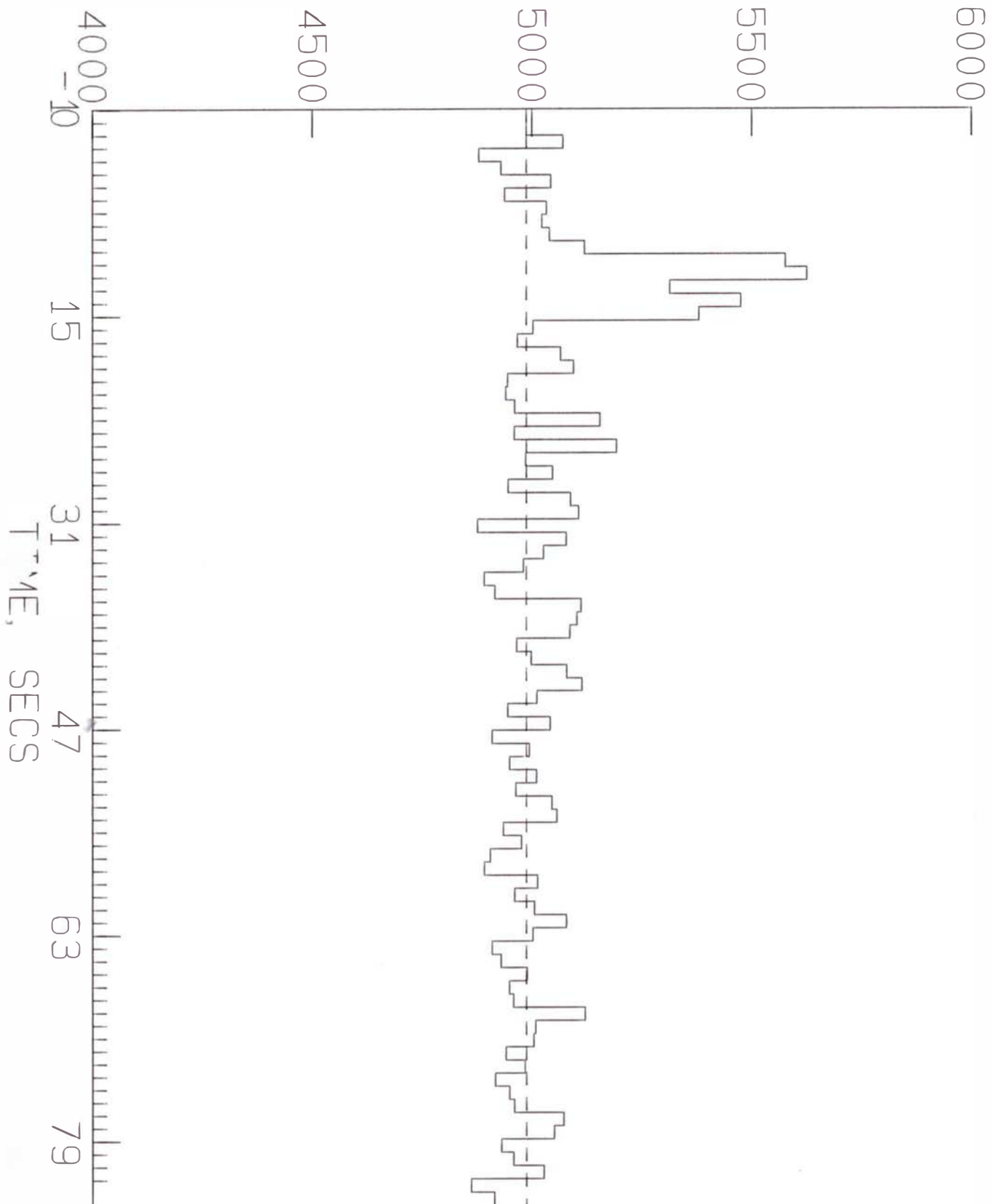
BACODINE

03/08/95

65559.217

25- 100 keV

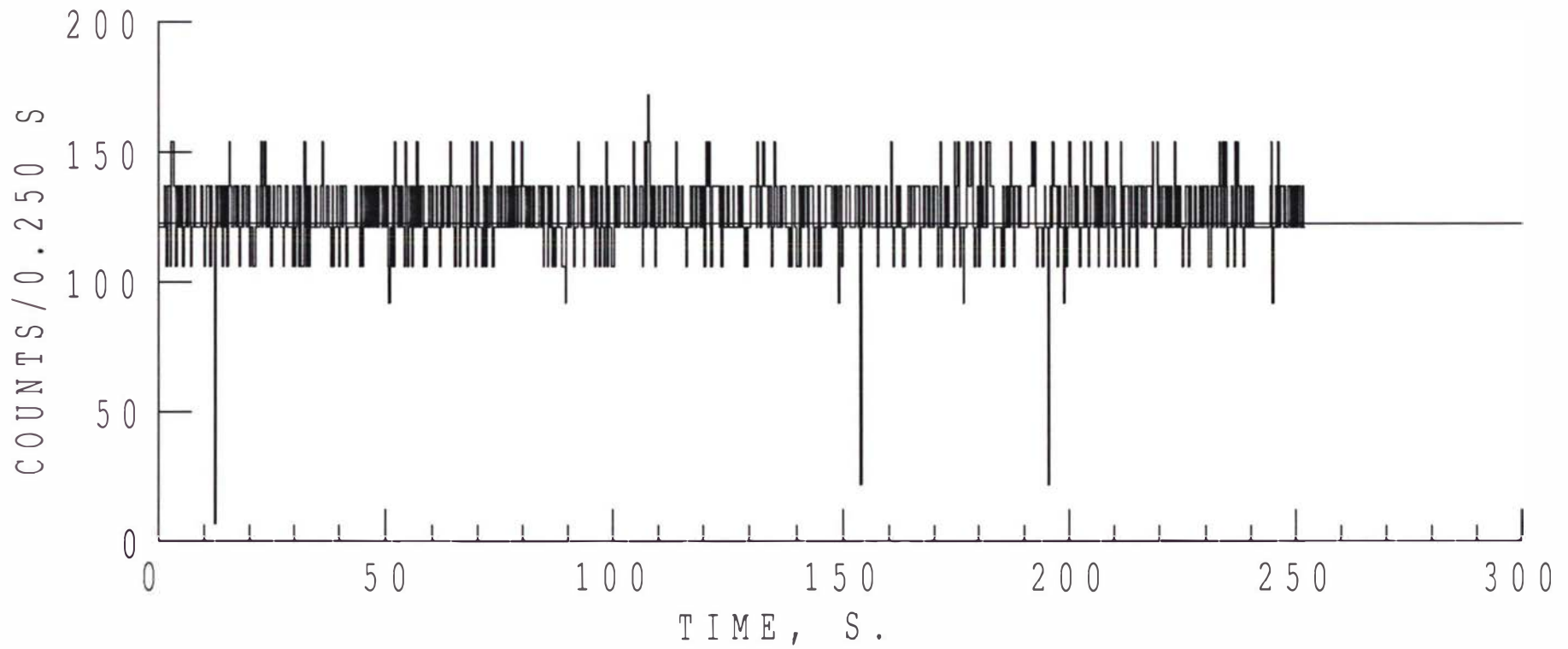
COUNTS/1.024 S



7 / 8 / 95

ULYSSES RT
3 / 8 / 95 64404.160 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



KONUS

ULYSSES RT

26 / 01 / 00

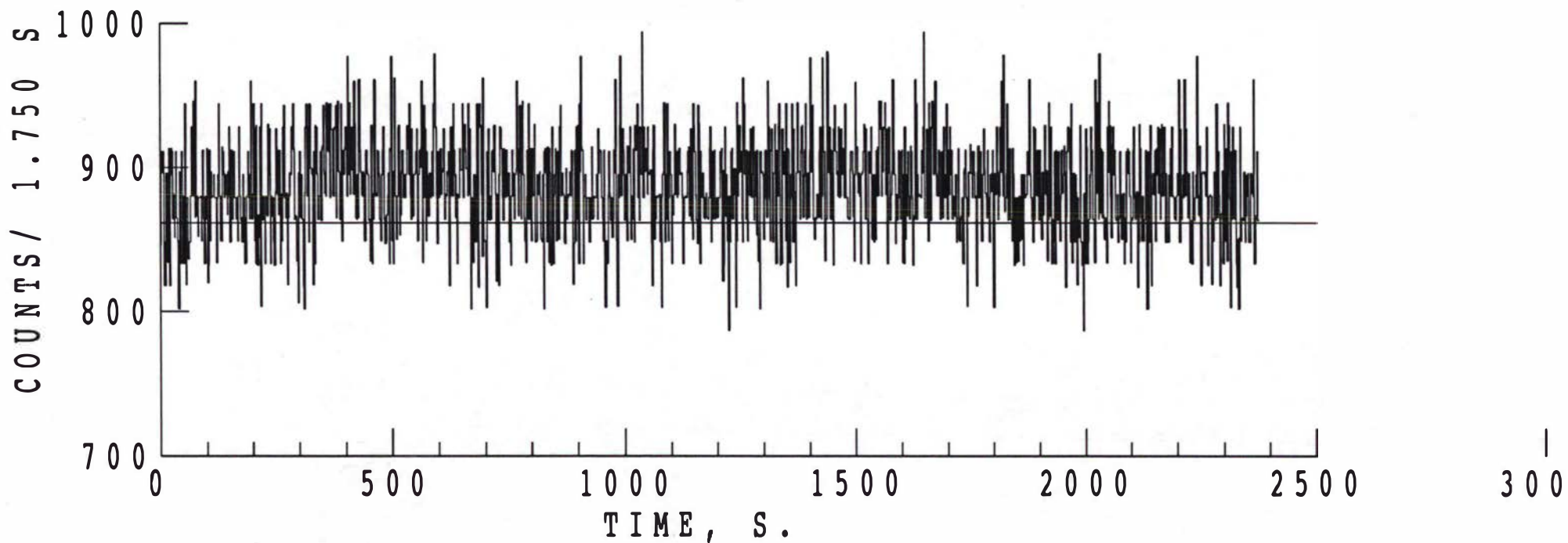
03 / 08 / 95 76500.117 s

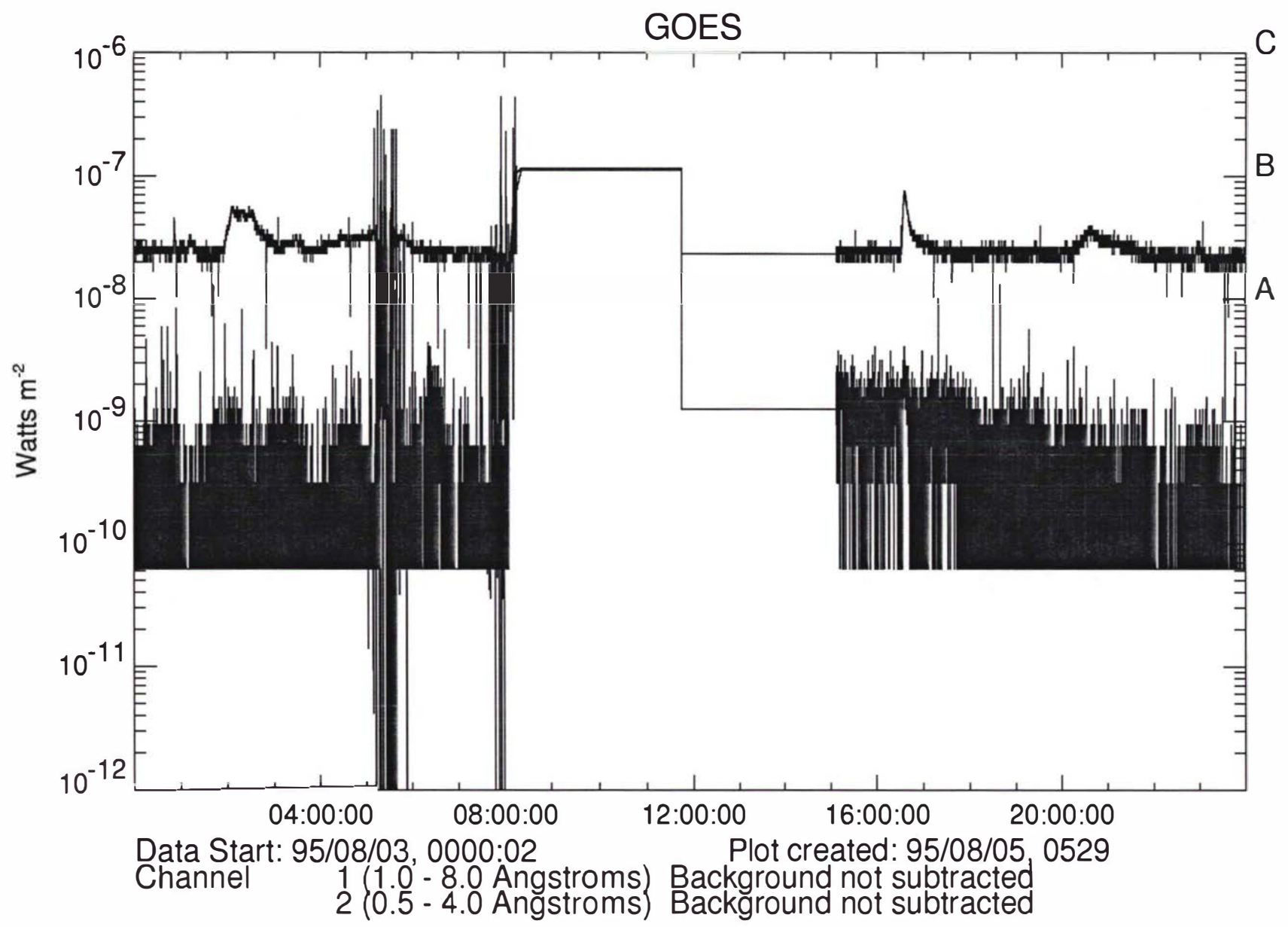
0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

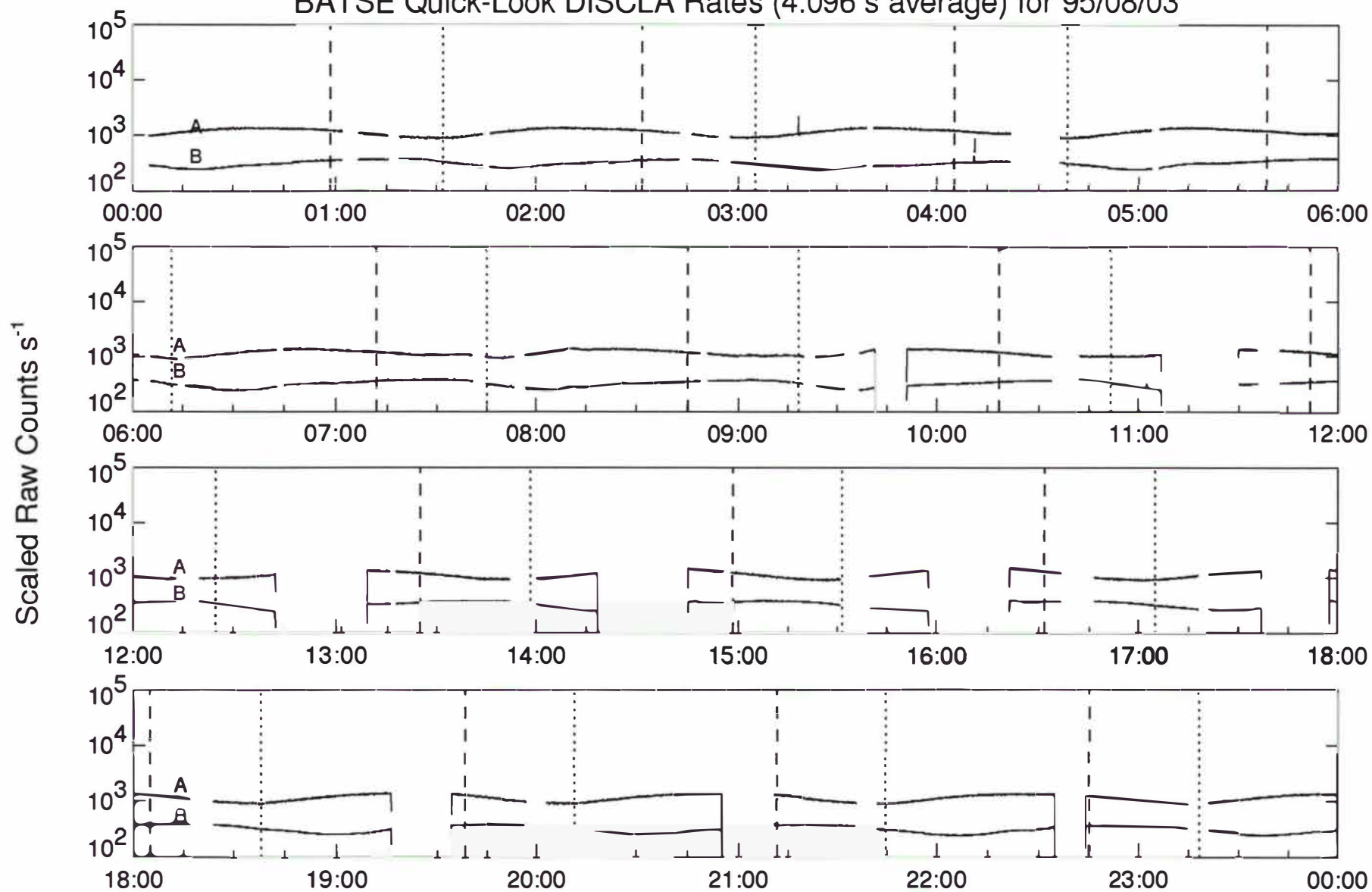
W= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

W= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/03



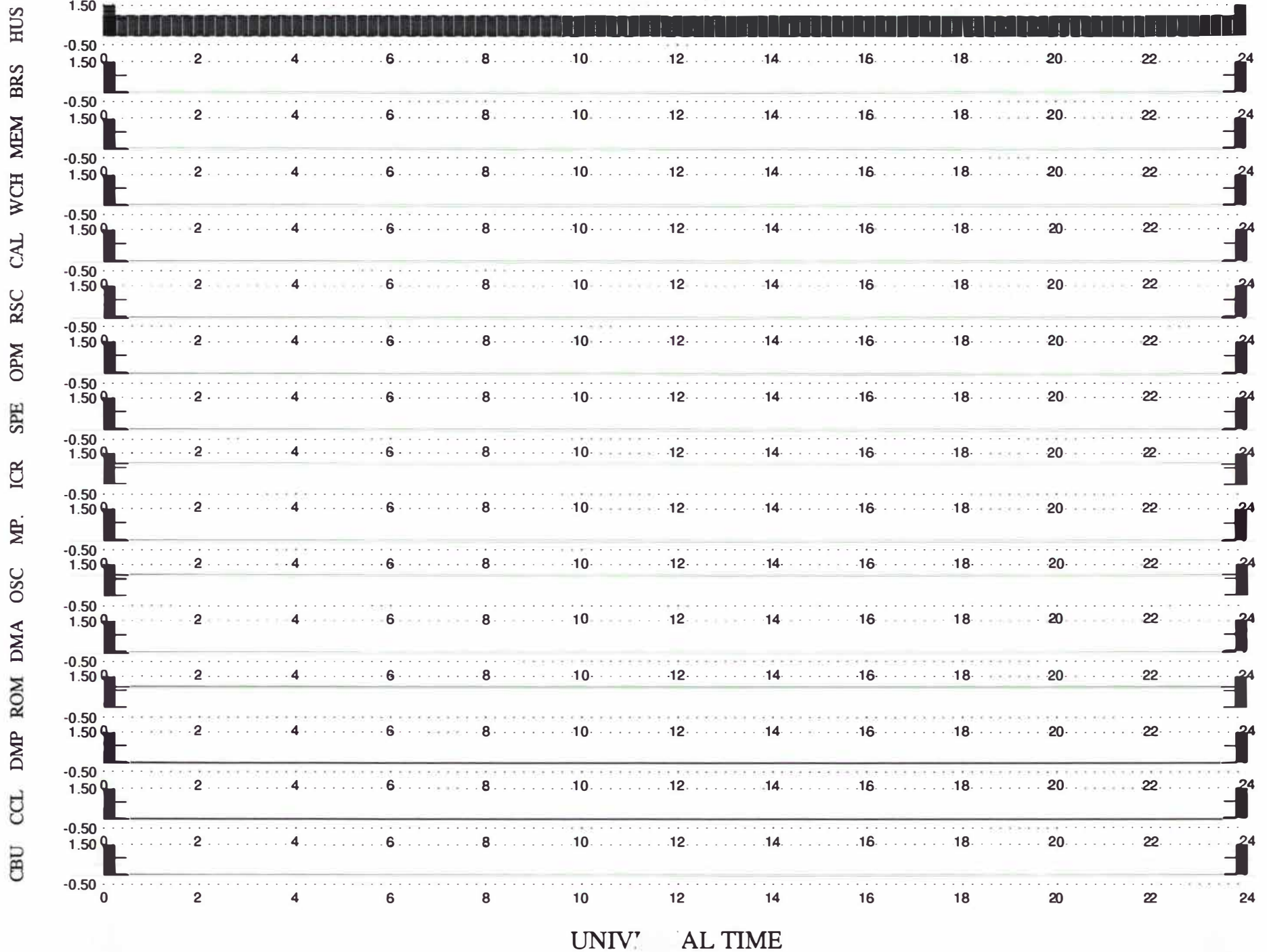
Current Time: 95/08/05, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

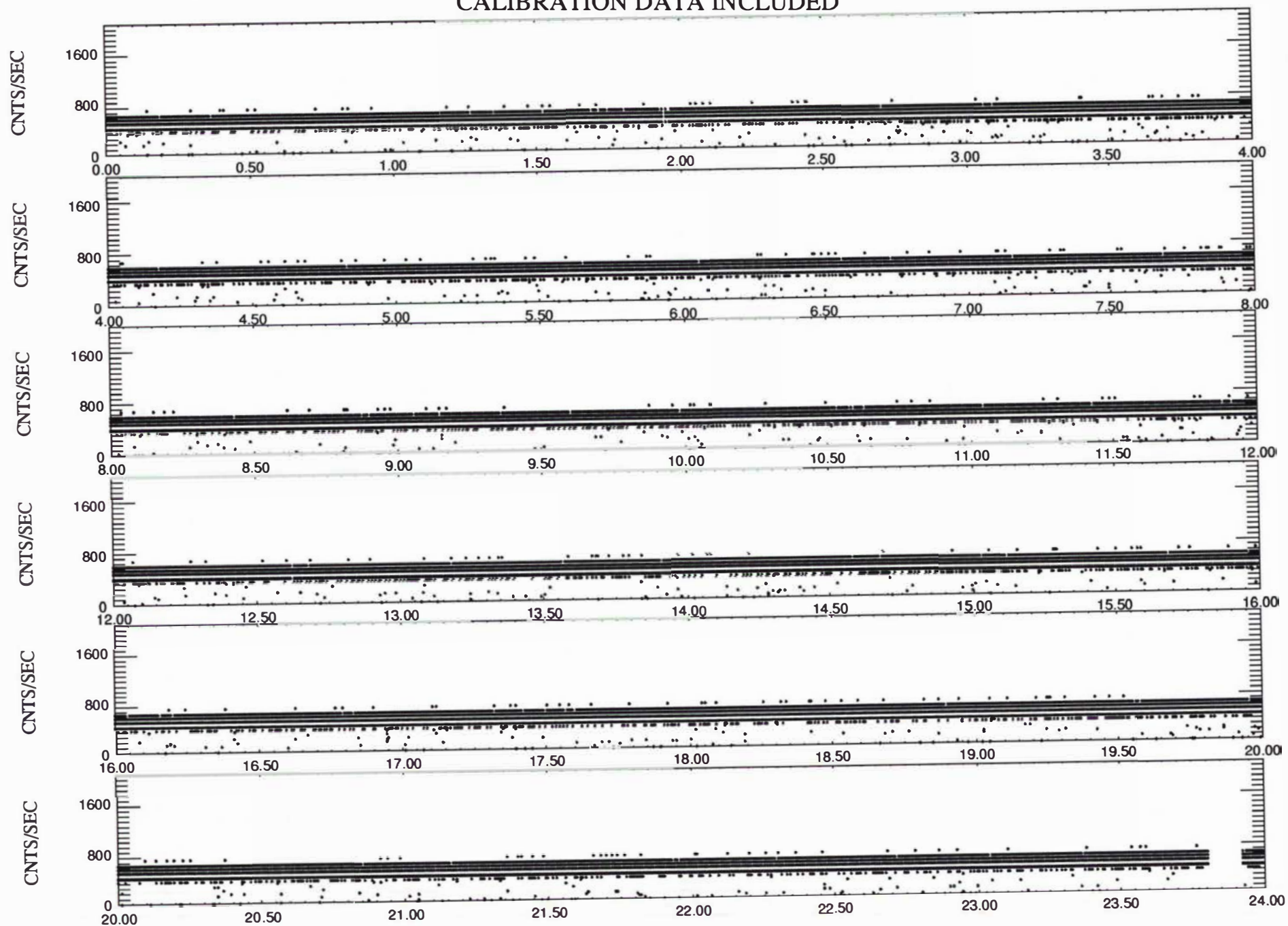
HUS MODES EDR day 215, year 1995 to day 215, year 1995
NO BURST (7)

1/25/96

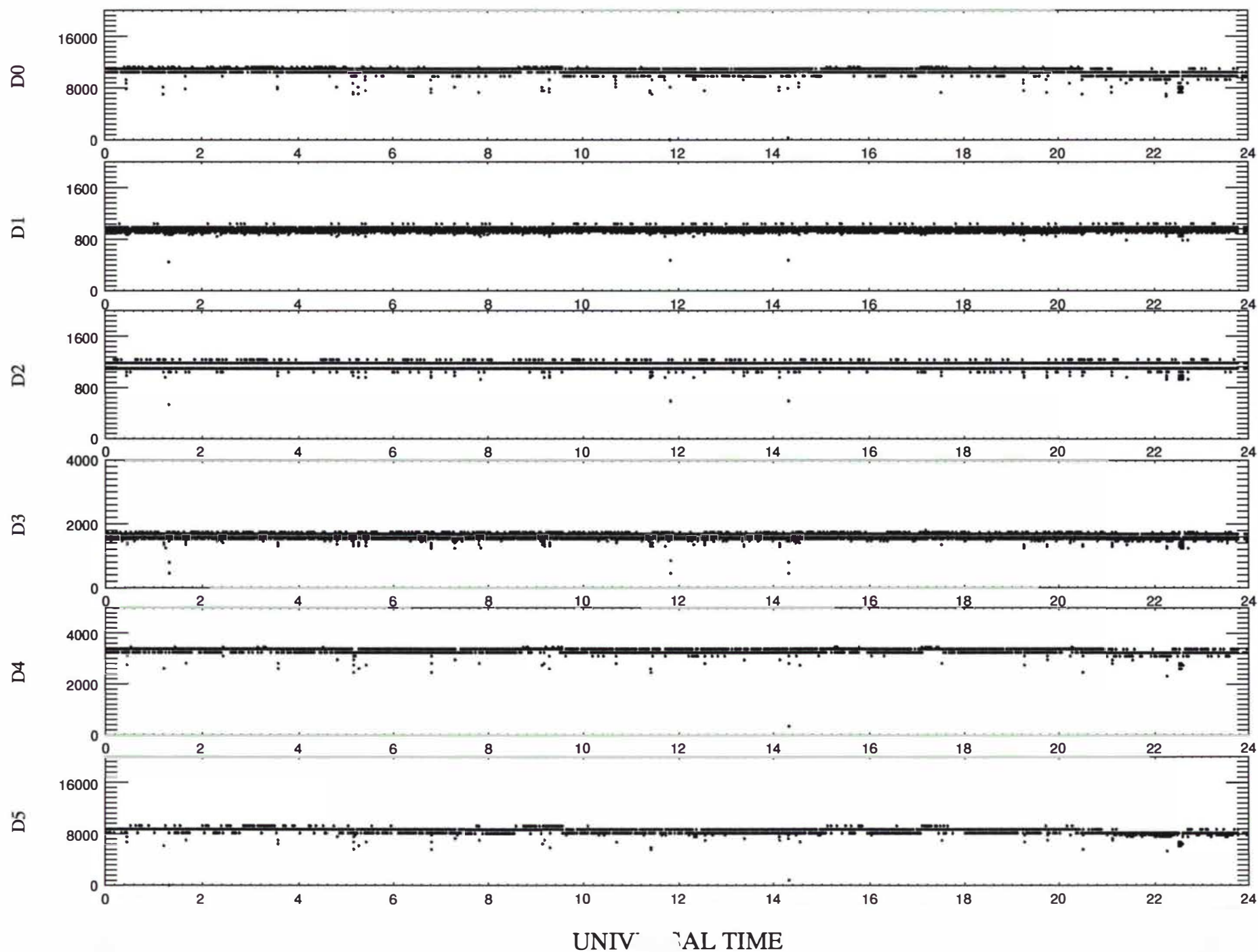


HUS 2A, MODE 1, NOT AVERAGED EDR day 215, year 1995 to day 215, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



From HAGEDON@fender.msfc.nasa.gov Mon Aug 7 09:50 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 7 Aug 1995 11:50:12 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3734

BATSEARCH PROGRAM

Trigger

BATSE BURST # 3734
EVENT OF 1995 AUG 4 DAY OF YEAR=216
EVENT CROSSING TIME AT BATSE : 7134. S. OR 01:58:54.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 293.000 48.000
BATSE PEAK COUNTING RATE: 98000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 4/ 8/ 95 IS:
RA= 152.811 DEC= 80.958 DIST= 2.273 AU
BATSE-ULYSSES DISTANCE = 340053106. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=130.78 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -740.84 SECS.
CROSSING TIME AT ULYSSES IS 6393. S. OR 01:46:33 +/- 187.88 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 4/ 8/ 95 IS:
RA= 187.598 DEC= -3.028 DIST= 1.875 AU
MARS-BATSE DISTANCE = 280510432. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 77.48 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 202.79 SECS.
CROSSING TIME AT MARS IS 7337. S. OR 02:02:16 +/- 161.67 SECONDS
BATSE BURST TRIGGER

NO.: 3734

TIME: TJD=9933 SECONDS=07134

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=79.3 AZIMUTH=131.5 ERROR=0.45 DEGREES

COMMENTS:

BURST. STRONG, COMPLEX EVENT. TOTAL DUR.~15 SEC. MAIN EPISODE FROM
~T+0 TO ~T+5 SEC. SECOND WEAKER PEAK AT ~T+11.5 SEC. VISIBLE ABOVE 300 KEV.
LOCATION ERROR STATED IS STATISTICAL. ADD 1.5 DEG SYSTEMATIC ERROR.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3734	950804	9933	07134	98000	293	+48	15

RT data files which may contain ~ 0.5 s timing error because they follow a trigger

2 hour time range from beginning of burst that extract falls in: DATA USED ?

b02:0126	extract	beg	time:0244	e91270_2A1_02.73_02.84.ascii.Z	N
b03:0219	extract	beg	time:0244	e91270_2A1_02.73_02.84.ascii.Z	N
b01:0121	extract	beg	time:0310	e91360_2A1_03.16_03.37.ascii.Z	N
0:0932	extract	beg	time:1025	e92010_2A1_10.42_10.48.ascii.Z	Y (TRIGGER)
01:0845	extract	beg	time:1015	e92058_2A1_10.25_10.75.ascii.Z	N
b01:0609	extract	beg	time:0723	e92111_2A1_07.38_07.54.ascii.Z	N
b01:0629	extract	beg	time:0634	e92174_2A1_06.57_06.87.ascii.Z	N
b01:0541	extract	beg	time:0549	e92190_2A1_5.76_5.90.ascii.Z	Y (SAR 1000)
b02:2032	extract	beg	time:2058	e92205_2A1_20.97_22.66.ascii.Z	Y (TRIGGER)
b01:1202	extract	beg	time:1240	e92209_2A1_12.67_12.85.ascii.Z	N
b01:1717	extract	beg	time:1831	e92213_2A1_18.51_18.82.ascii.Z	N
b01:1142	extract	beg	time:1301	e92303_2A1_13.02_13.28.ascii	Y
b03:0736	extract	beg	time:0844	q92313_2A1_8.70_8.96.ascii.Z	N
b03:0736	extract	beg	time:0844	e92313_2A1_08.74_09.02.ascii.Z	N
b14:1730	extract	beg	time:1905	q92314_2A1_19.08_19.30.ascii.Z	N
b15:1825	extract	beg	time:1905	q92314_2A1_19.08_19.30.ascii.Z	N
b02:0156	extract	beg	time:0344	e92315_2A1_3.10_3.36.ascii.Z	N
b03:0322	extract	beg	time:0344	e92315_2A1_3.10_3.36.ascii.Z	N
b06:0819	extract	beg	time:0844	e92315_2A1_8.71_8.85.ascii.Z	N
b08:1211	extract	beg	time:1340	e92315_2A1_13.66_13.96.ascii.Z	N
b08:1211	extract	beg	time:1344	e92315_2A1_13.74_14.03.ascii.Z	N
b02:0600	extract	beg	time:0644	e92316_2A1_6.76_7.04.ascii.Z	N
b02:0135	extract	beg	time:0329	e93012_2A1_3.50_3.72.ascii.Z	Y
b03:0227	extract	beg	time:0329	e93012_2A1_3.50_3.72.ascii.Z	Y
b04:0315	extract	beg	time:0329	e93012_2A1_3.50_3.72.ascii.Z	Y
b01:1105	extract	beg	time:1150	q93077_2A1_11.83_12.05.ascii.Z	Y
b01:0745	extract	beg	time:0756	q93096_2A1_7.71_7.85.ascii.Z	Y (TRIGGER)
b01:0745	extract	beg	time:0856	q93096_2A1_8.40_8.50.ascii.Z	N
1:1445	extract	beg	time:1530	e93126_2A1_15.50_15.65.ascii.Z	N
1:1445	extract	beg	time:1548	e93126_2A1_15.80_15.95.ascii.Z	N
b01:0334	extract	beg	time:0434	e93265_2A1_04.56_04.64.ascii.Z	N
b01:0900	extract	beg	time:0943	e93272_2A1_09.71_09.98.ascii.Z	Y (SAR 1806)
b01:1654	extract	beg	time:1707	e93287_2A1_17.11_17.37.ascii.Z	Y
b01:2215	extract	beg	time:2240	e93294_2A1_22.67_22.85.ascii.Z	N
b01:0824	extract	beg	time:0840	e93303_2A1_08.66_08.81.ascii.Z	N
b01:0352	extract	beg	time:0510	e93318_2A1_05.17_05.42.ascii.Z	N
b01:0641	extract	beg	time:0824	e93340_2A1_08.40_08.61.ascii.Z	N
b02:0602	extract	beg	time:0733	e94026_2A1_07.55_07.71.ascii.Z	N
b05:1140	extract	beg	time:1240	e94044_2A1_12.66_12.76.ascii.Z	Y
b01:0204	extract	beg	time:0326	e94047_2A1_03.44_03.62.ascii.Z	N
b01:0113	extract	beg	time:0124	e94049_2A1_01.40_02.50.ascii.Z	N
b03:1943	extract	beg	time:2123	e94058_2A1_21.38_21.49.ascii.Z	N
b01:0346	extract	beg	time:0505	e94061_2A1_05.08_05.25.ascii.Z	Y (Trigger; but RT data probably used)
b01:0047	extract	beg	time:0128	e94062_2A1_01.47_01.63.ascii.Z	N
b01:2113	extract	beg	time:2142	e94202_2A1_21.70_21.98.ascii.Z	N
b01:2113	extract	beg	time:2144	e94202_2A1_21.74_22.14.ascii.Z	N
b01:1047	extract	beg	time:1143	e94242_2A1_11.71_11.86.ascii.Z	N
b01:0647	extract	beg	time:0728	e94298_2A1_07.47_07.51.ascii.Z	N
b01:0128	extract	beg	time:0241	e94299_2A1_02.68_02.80.ascii.Z	Y
b09:1148	extract	beg	time:1348	e94321_2A1_13.80_14.47.ascii.Z	N
b10:1238	extract	beg	time:1348	e94321_2A1_13.80_14.47.ascii.Z	N
b11:1328	extract	beg	time:1348	e94321_2A1_13.80_14.47.ascii.Z	N
b01:1952	extract	beg	time:2040	e94326_2A1_20.66_20.78.ascii.Z	N
b01:0223	extract	beg	time:0406	e95042_2A1_04.10_04.76.ascii.Z	N
:0640	extract	beg	time:0740	e95072_2A1_07.67_07.81.ascii.Z	N
1:0144	extract	beg	time:0158	e95216_2A1_01.96_02.09.ascii.Z	Y (Trigger) This file was after the burst - not used apparently
b02:1628	extract	beg	time:1718	e95339_2A1_17.30_17.45.ascii.Z	N
b03:1718	extract	beg	time:1718	e95339_2A1_17.30_17.45.ascii.Z	N
b01:1124	extract	beg	time:1205	e95362_2A1_12.09_12.87.ascii.Z	N

b04:1343	extract	beg	time:1540	e95362_2A1_15.67_15.84.ascii.Z	Y
b04:1343	extract	beg	time:1541	e95362_2A1_15.69_15.85.ascii.Z	Y
b05:1516	extract	beg	time:1540	e95362_2A1_15.67_15.84.ascii.Z	Y
b05:1516	extract	beg	time:1541	e95362_2A1_15.69_15.85.ascii.Z	Y
b01:0053	extract	beg	time:0251	e96002_2A1_02.85_03.62.ascii	N
b02:0216	extract	beg	time:0251	e96002_2A1_02.85_03.62.ascii	N
b20:1956	extract	beg	time:2041	e96002_2A1_20.68_20.76.ascii	N
b20:1956	extract	beg	time:2041	e96002_2A1_20.69_20.76.ascii	N
b02:0128	extract	beg	time:0305	e96004_2A1_03.09_03.87.ascii.Z	N
b03:0235	extract	beg	time:0305	e96004_2A1_03.09_03.87.ascii.Z	N
b05:1621	extract	beg	time:1656	e96006_2A1_16.93_17.08.ascii.Z	N
b01:0116	extract	beg	time:0150	e96007_2A1_01.84_01.95.ascii	N
b01:0116	extract	beg	time:0152	e96007_2A1_01.87_01.99.ascii	N
b01:1819	extract	beg	time:1935	e96028_2A1_19.59_19.87.ascii.Z	Y
b01:0208	extract	beg	time:0233	e96030_2A1_02.55_02.66.ascii.Z	Y
b01:0208	extract	beg	time:0235	e96030_2A1_02.58_02.73.ascii.Z	Y
b01:0208	extract	beg	time:0235	e96030_2A1_02.59_02.73.ascii.Z	Y
b01:0849	extract	beg	time:0949	qp96032_2A1_09.81_09.94.ascii.Z	Y
b02:2011	extract	beg	time:2144	qp96032_2A1_21.74_21.90.ascii.Z	Y
b01:1929	extract	beg	time:2049	qp96051_2A1_20.82_20.85.ascii.Z	N
b01:1929	extract	beg	time:2049	qp96051_2A1_20.82_20.86.ascii.Z	N
b01:1529	extract	beg	time:1719	qp96094_2A1_17.32_17.48.ascii.Z	N
b01:1529	extract	beg	time:1722	qp96094_2A1_17.36_17.52.ascii.Z	N
b01:1652	extract	beg	time:1752	qp96168_2A1_17.87_17.97.ascii.Z	N
b01:1652	extract	beg	time:1755	qp96168_2A1_17.91_18.05.ascii.Z	N

(GR 1747 - MAYBE USED FOR NUTSYN?)

"	"	"
"	"	"
"	"	"

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 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 khurley@sunspot Tue Sep 26 08:37 PDT 1995
Date: Tue, 26 Sep 1995 08:24:27 -0700
From: khurley@sunspot (Kevin Hurley)
To: butterworth@lheavx.gsfc.nasa.gov, khurley@sunspot
Subject: Konus triggers in August

Dear Paul,

Here's the completed list. The data gap on the 9th is likely to be filled when we get our final data CD in a month or so.

Kevin

> -----

> Konus Triggers

> -----

>

> KONUS#	Date	Time	Event	T#	B#	U#
> detector						
>						
> 136 8/02	22:25:43.788	particle (near Earth)	n/a	n/a	n/a	
> 137 02	23:00:16.156	particle (near Earth)	n/a	n/a	n/a	
> 138 N 04	01:58:55.704	strong, multi-peak, 3sGRB	-	3734	TRIGGER	
> 139 N 04	09:02:41.958	weak, multi-peak, 120sGRB	-	-	RI	
> 140 N 04	12:36:17.251	weak, single-peak, 0.5sGRB	-	3735	NO	
> 141 N 05	00:04:43.498	weak, multi-peak, 25sGRB	-	-	NO	
> 142 S 05	03:44:14.144	strong, single-peak, 0.1sGRB	326	3736	RI	
> 143 S 09	23:52:25.672	strong, double-peak, 4sGRB	329	3750	DATA GAP	
> 144 N 18	01:24:25.640	v.strong, single-peak, 10sGRB	330	3765	TRIGGER	
> 145 20	00:45:06.928	particle (near Earth)	n/a	n/a	n/a	
> 146 20	14:24:17.743	particle (near Earth)	n/a	n/a	n/a	
> 147 S 22	03:49:10.530	v.strong, multi-peak, 30sGRB	336	3767	TRIGGER	
> 148 N 25	04:24:23.399	moderate, multi-peak, 120sGRB	-	-	RI	
>						

From: TERRELL@nisdp0.lanl.gov Thu Aug 31 15:12 PDT 1995
From: TERRELL@nisdp0.lanl.gov
Date: Thu, 31 Aug 1995 16:10:34 -0600 (MDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: grb of 950804

From: jterrell@lanl.gov (James Terrell) 950831
To: khurley@sunspot.ssl.berkeley.edu (Kevin Hurley)
CC:
Subj: grb? of 950804

Kevin:

I have good data from DMSP 12 and 13 for a GRB on 950804, with peak times of 7137.4 (<4sec; DMSP12 at (194.8,81.0)1995, 861km) and 7138.6 (<6sec; DMSP13 at (214.1,22.8)1995, 856km). Did other spacecraft also observe this apparent burst? I will investigate the GRB of 950822 and 950825 as soon as data is received. However, I am leaving tomorrow for a trip to Houston and the Caribbean and will not be back until 20 September. Do you have information to send me in regard to GB910428?--Jim

Helio corr removed

Date: July 9 '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? *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

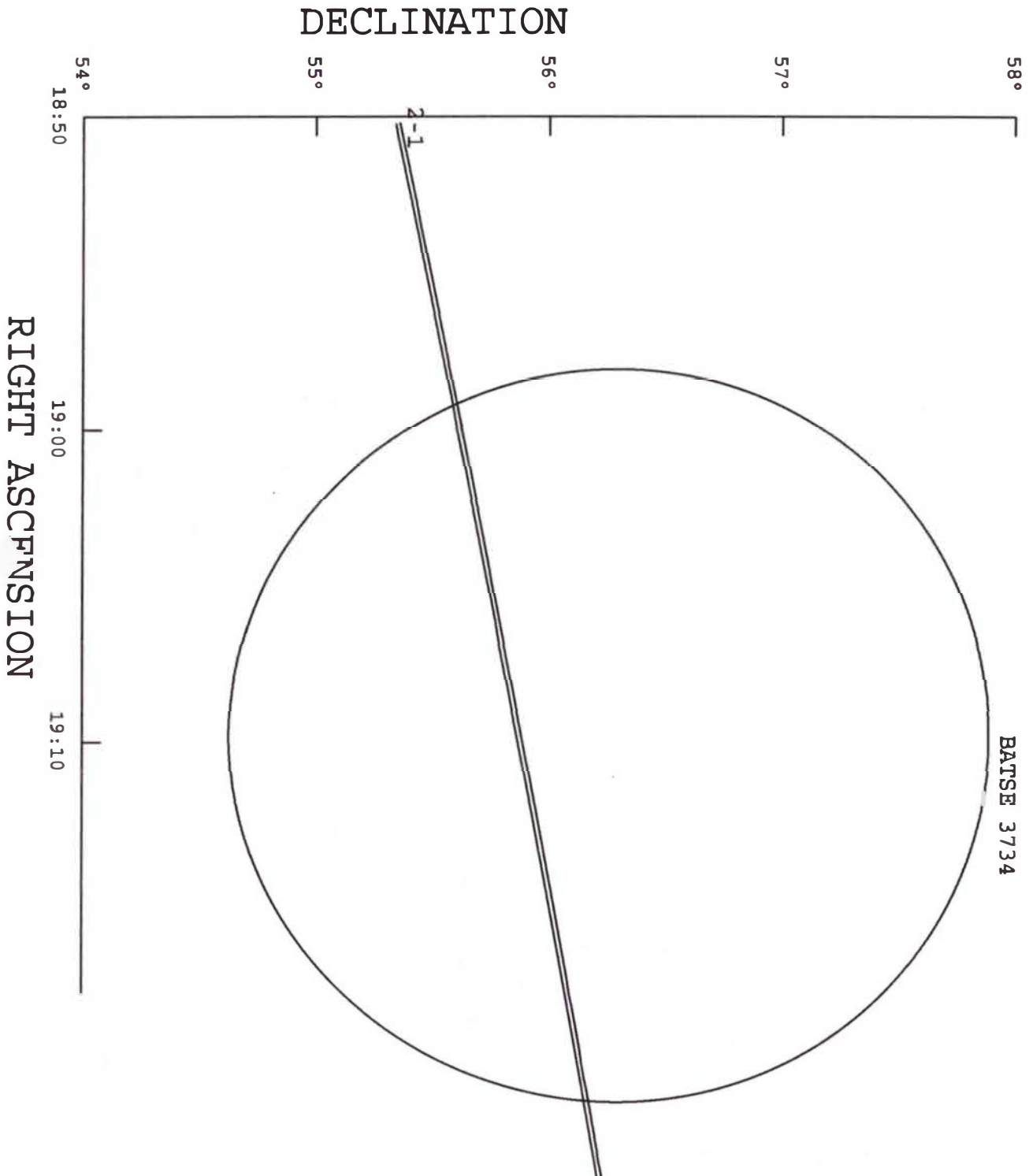
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF AUG 4, 1995 1:44

25 / 3 / 98



BATSE

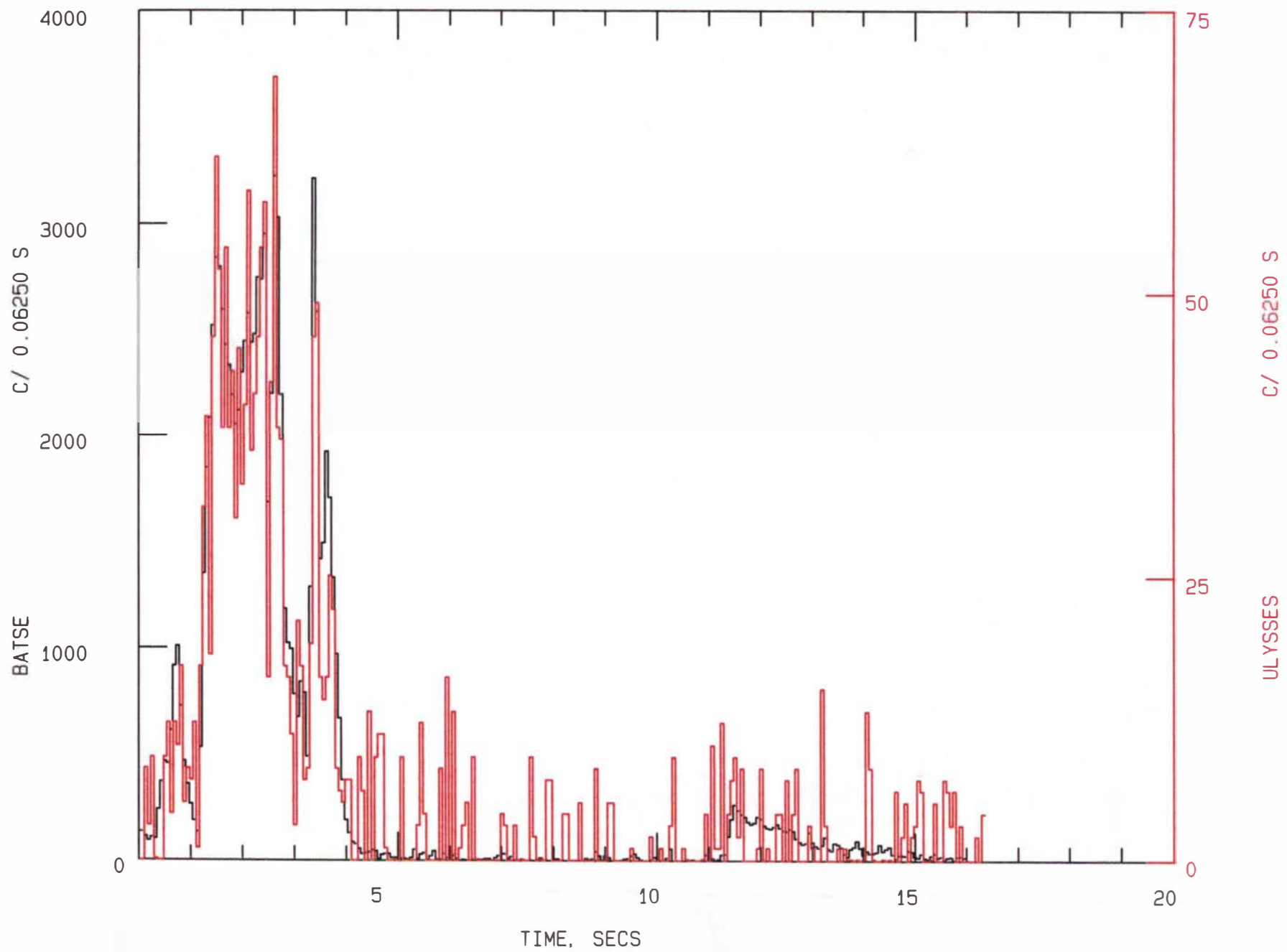
-ULYSSES

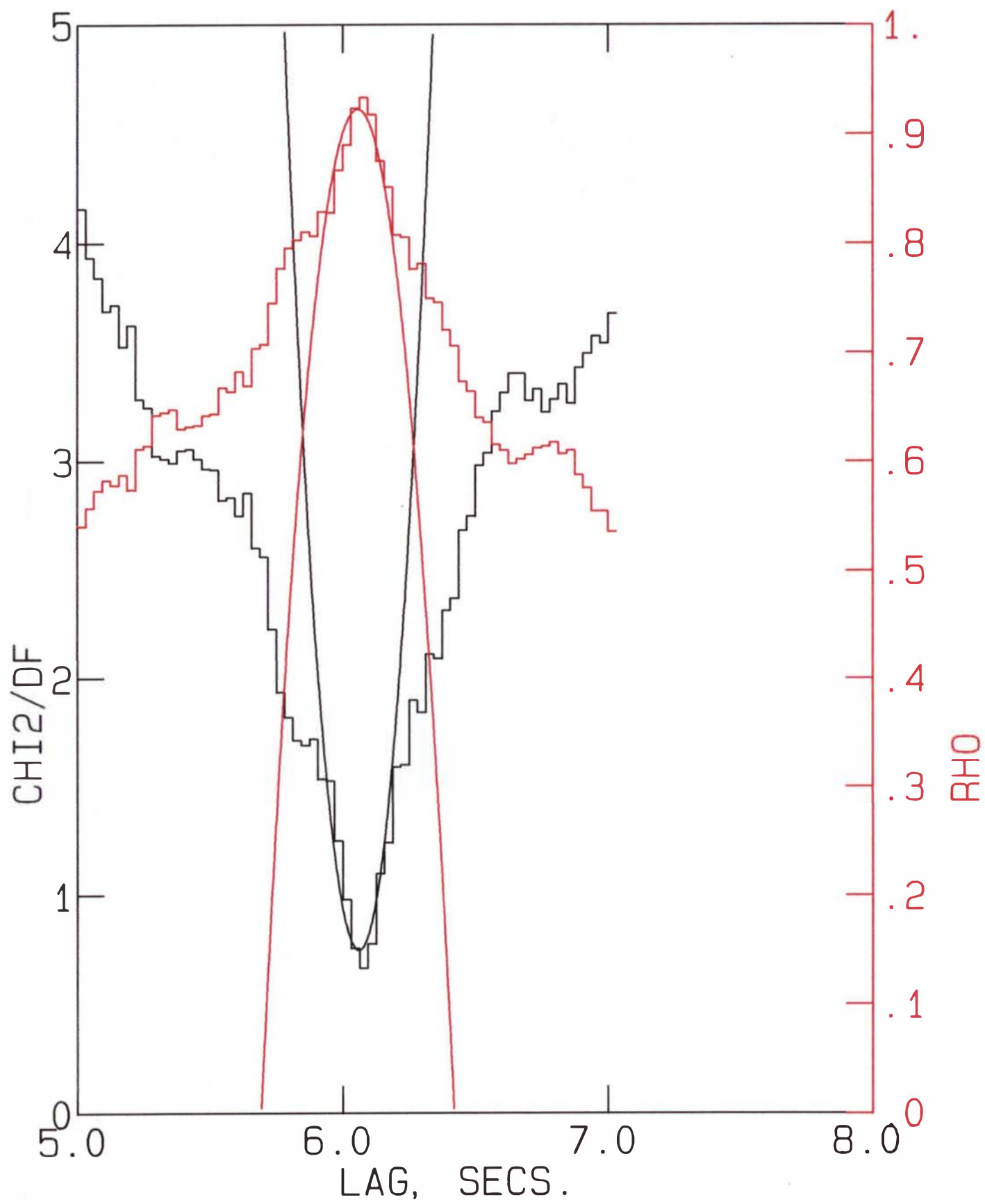
CORRELATION

4/ 8/95

7134.898

25/ 3/98





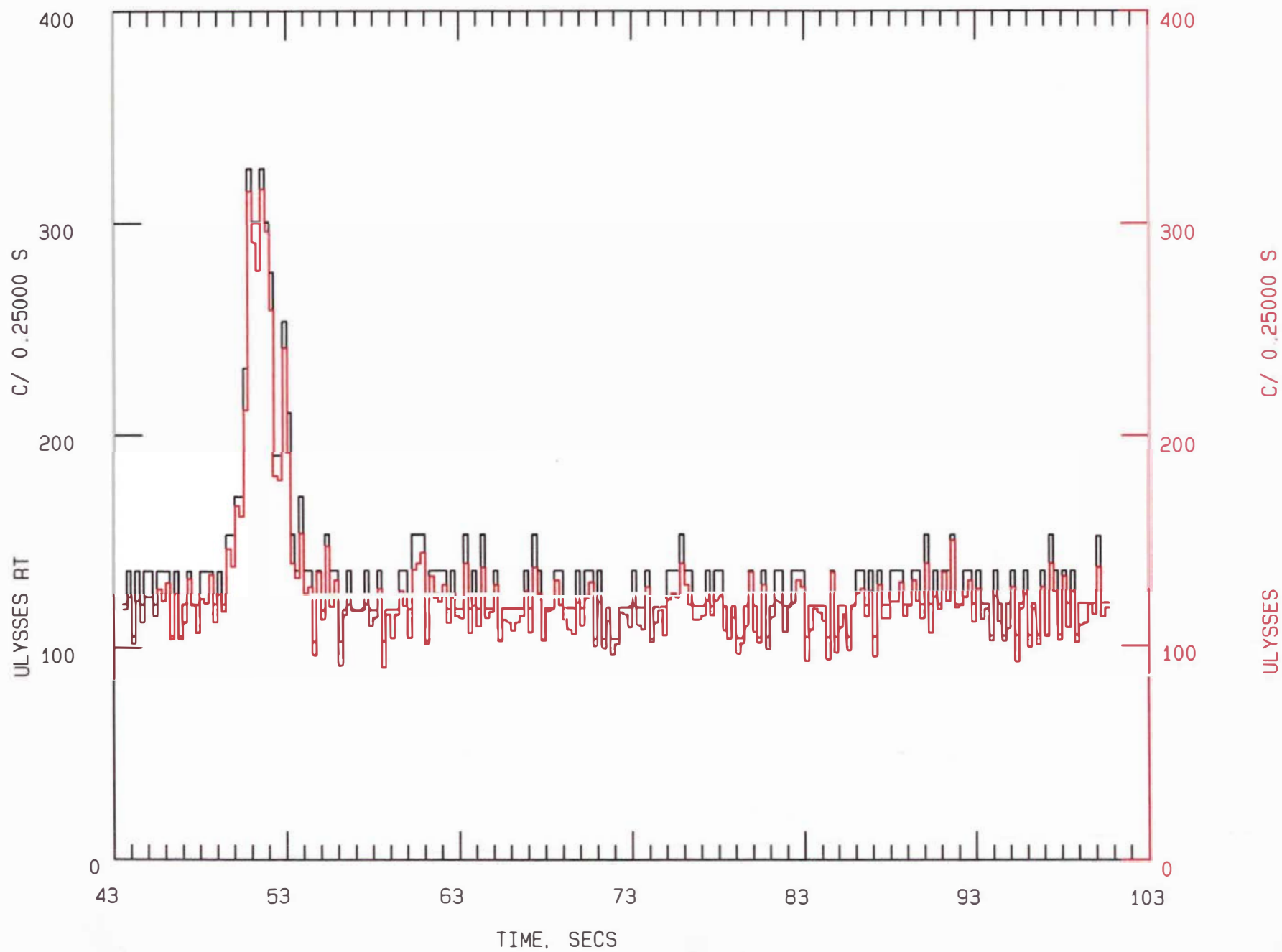
ULYSSES RT-ULYSSES

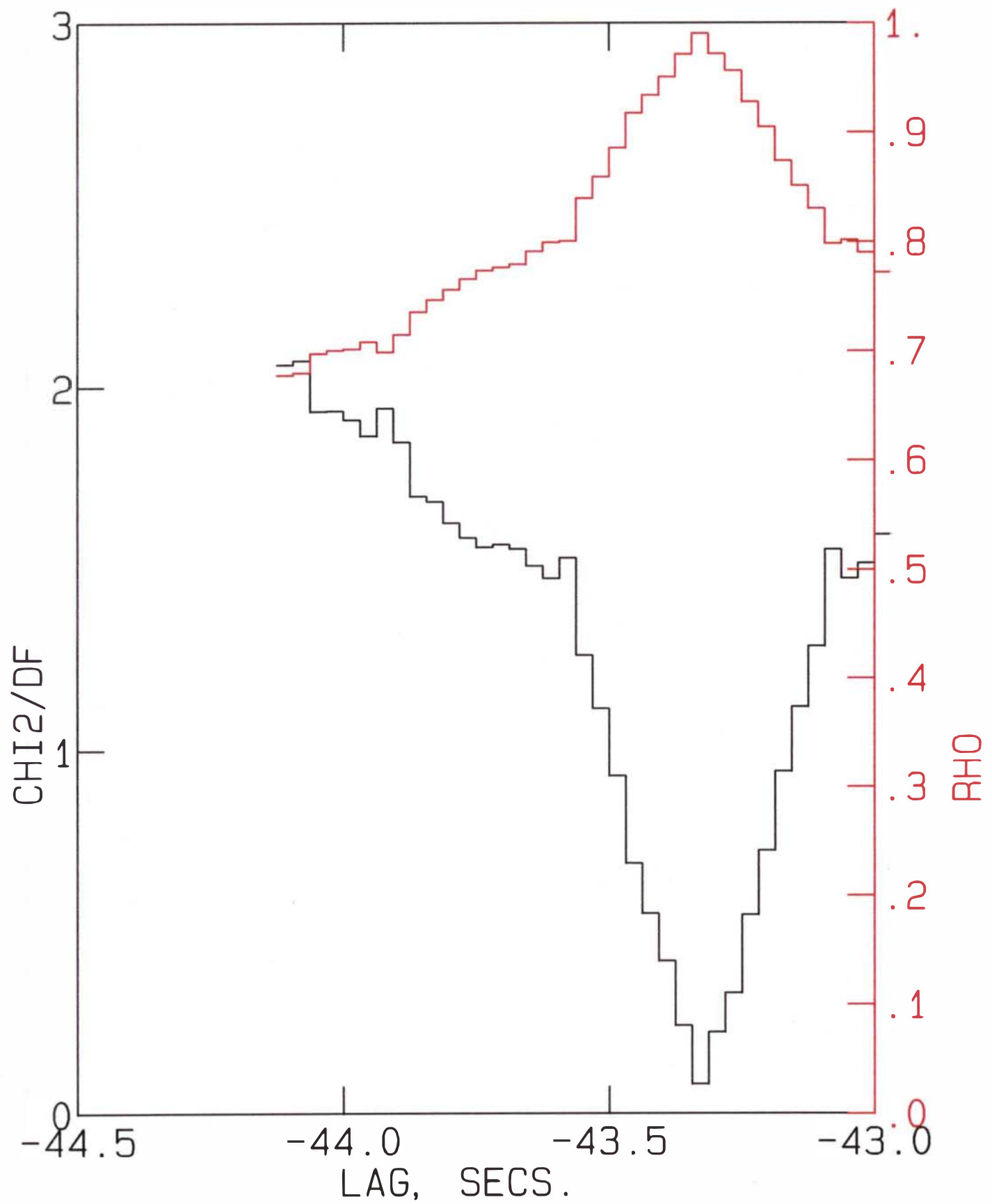
CORRELATION

4/ 8/95

6229.259

25/ 3/98

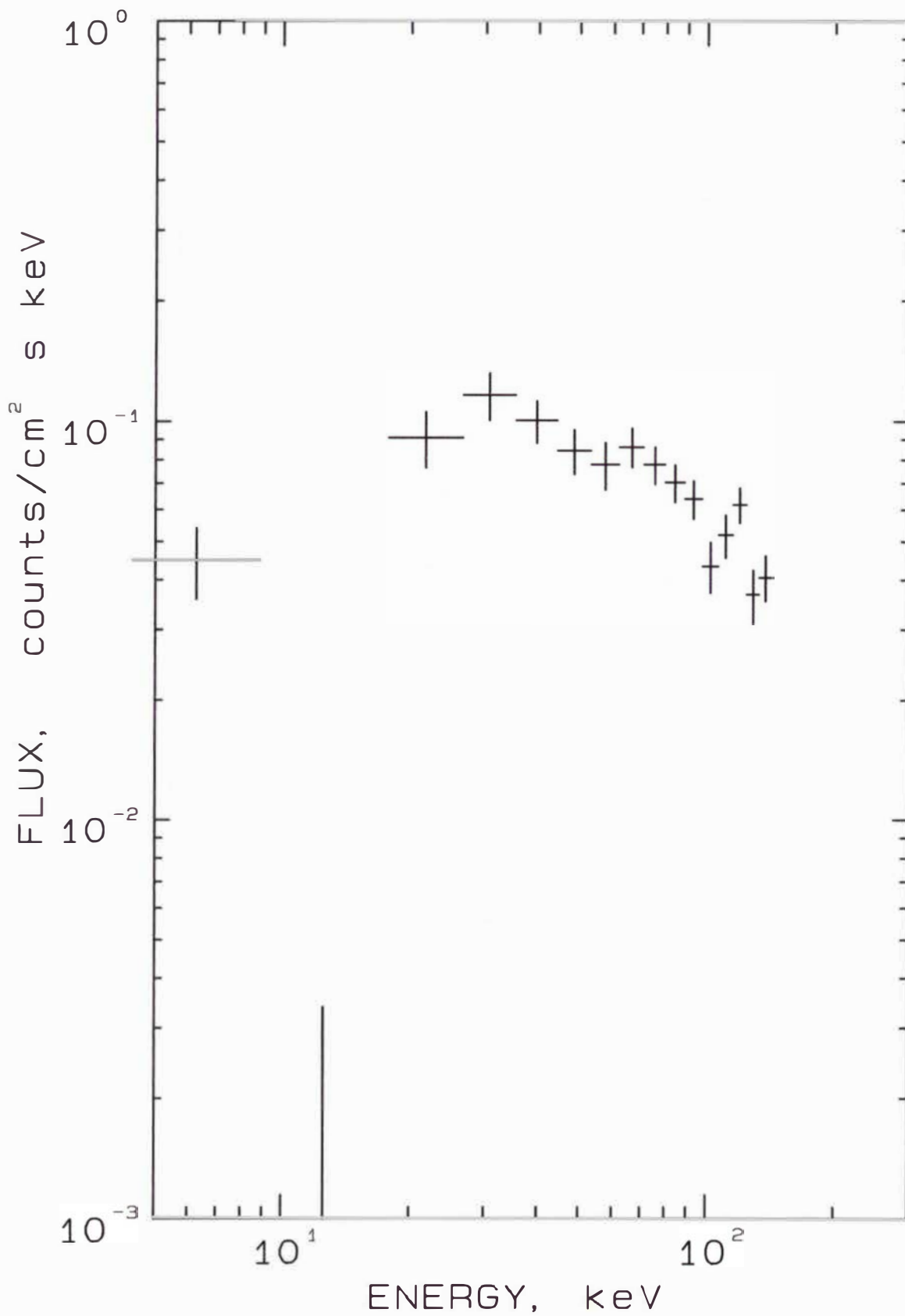




ULYSSES 04/08/95 6279.877

25/ 3/98

SPECTRUM INTEGRATED OVER 20.6 SECONDS, INTERVALS 2 TO 20



ULYSSES 04/08/95 6279.877 BURST SPECTRAL COUNT RATES

4- 17 keV

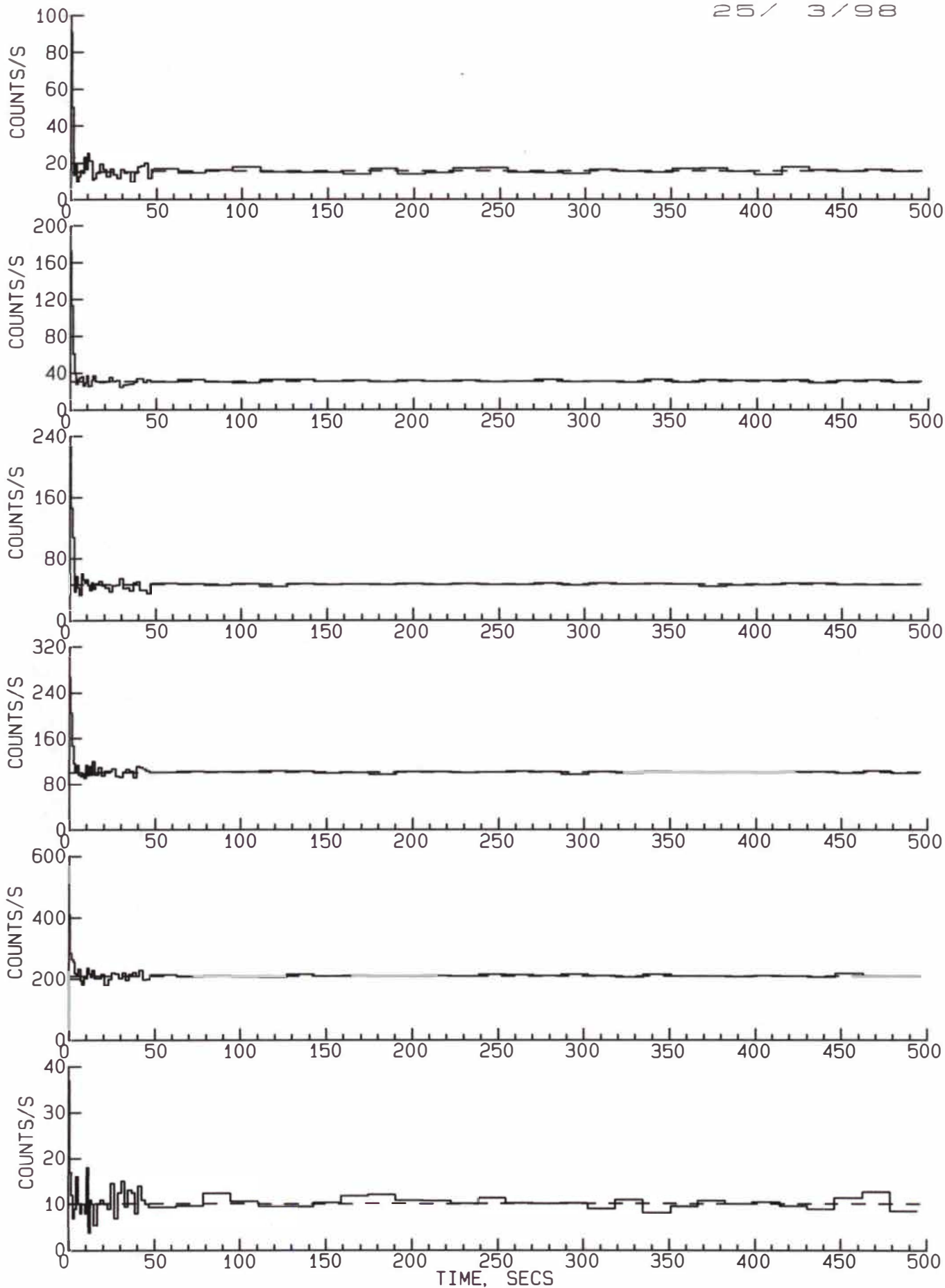
17- 44 keV

44- 70 keV

70- 97 keV

97-124 keV

124-141 keV



25 / 3 / 98

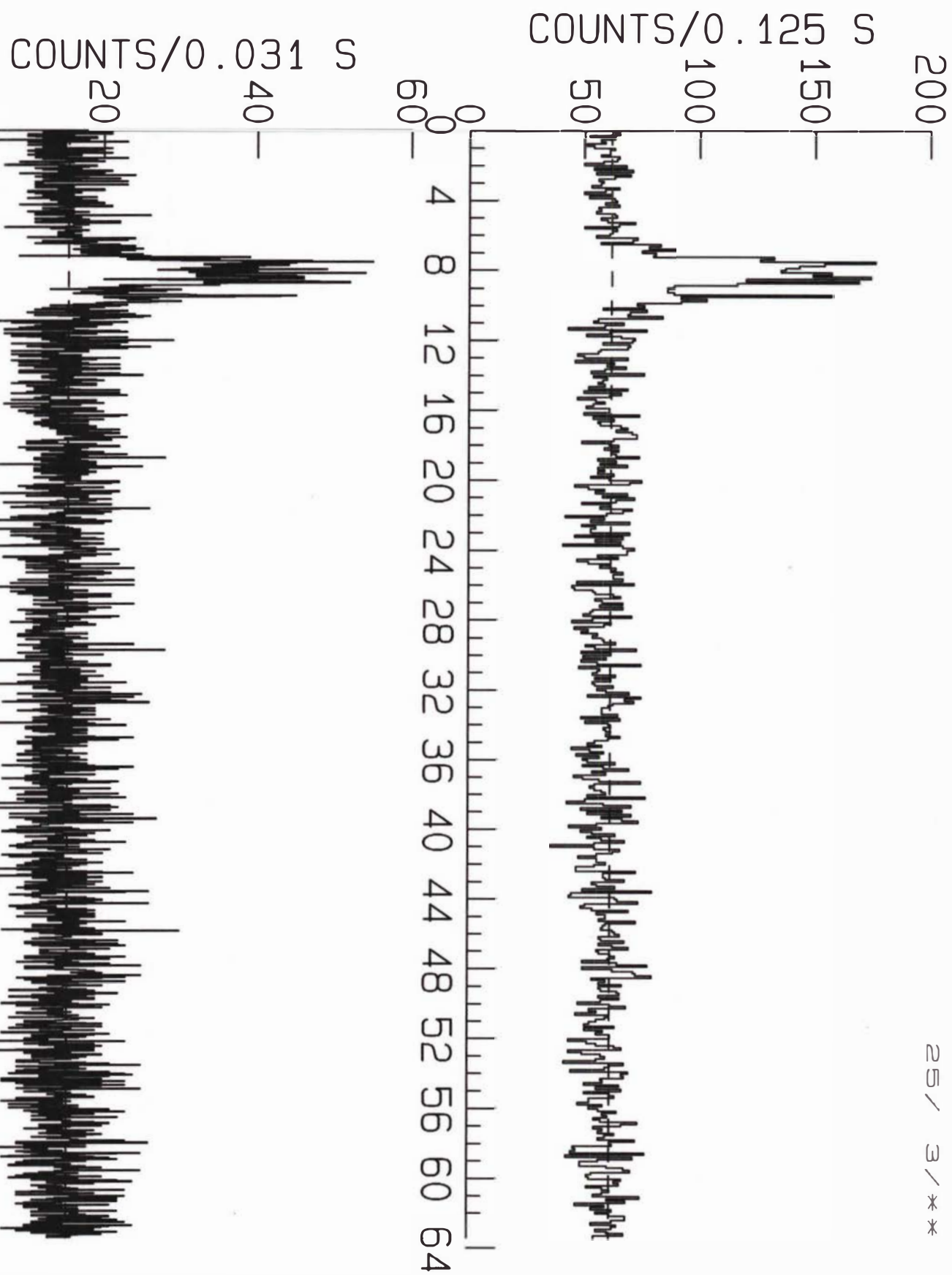
ULYSSES

04/08/95

Ttrig= 6279.995

21- 142 keV

25 / 3 / **



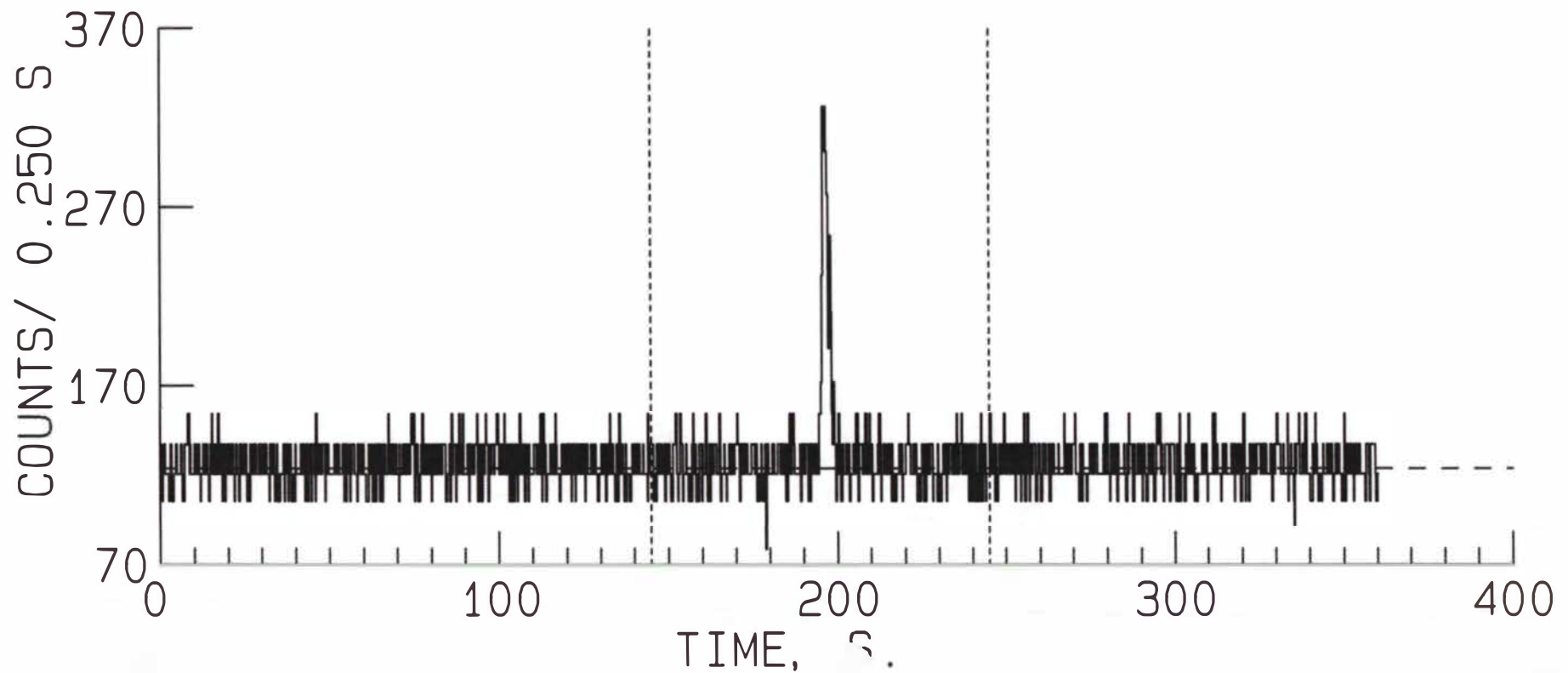
ULYSSES RT

25 / 3 / 98

4 / 8 / 95 6084.150 s

21- 142 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



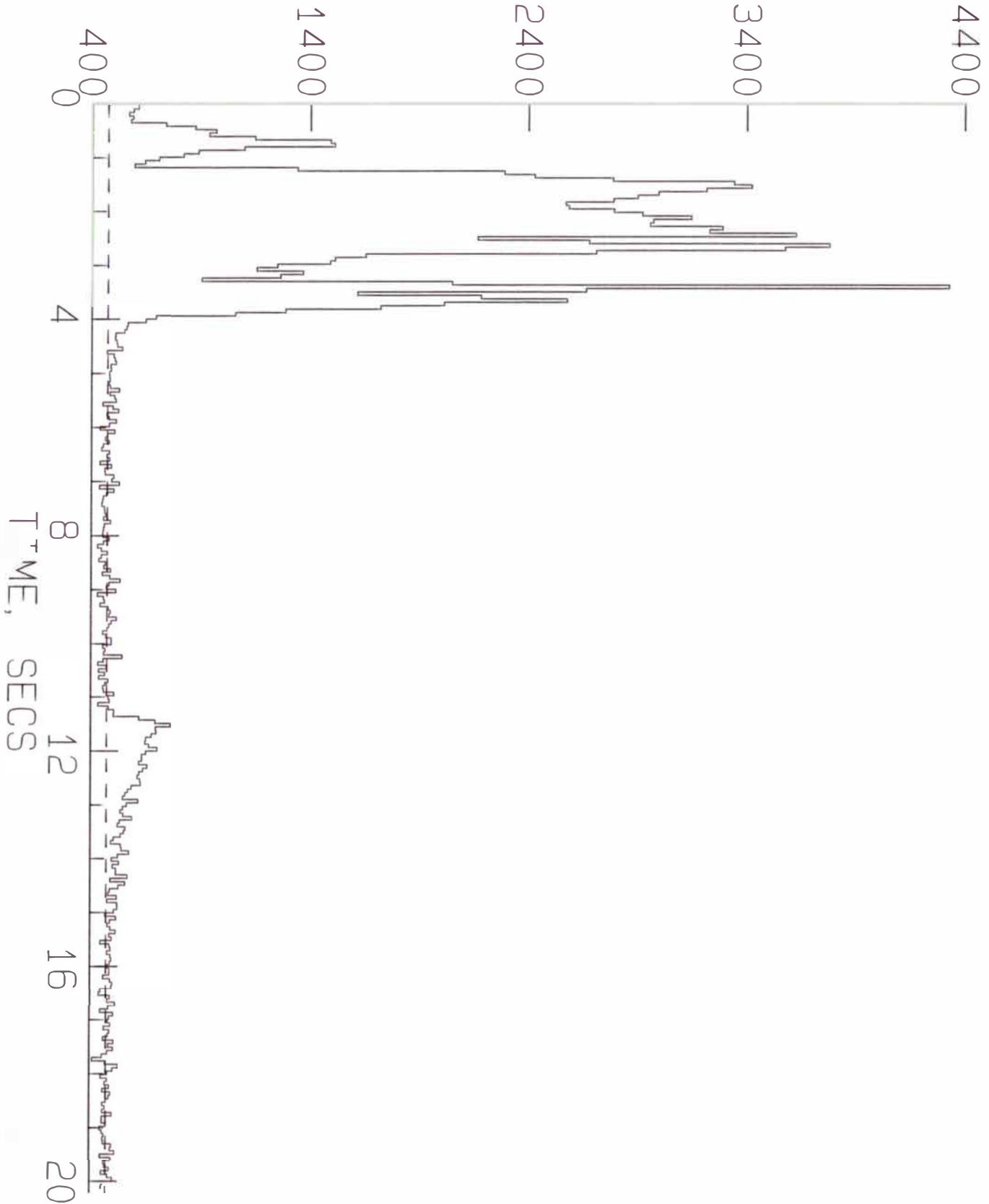
BATSE

04/08/95

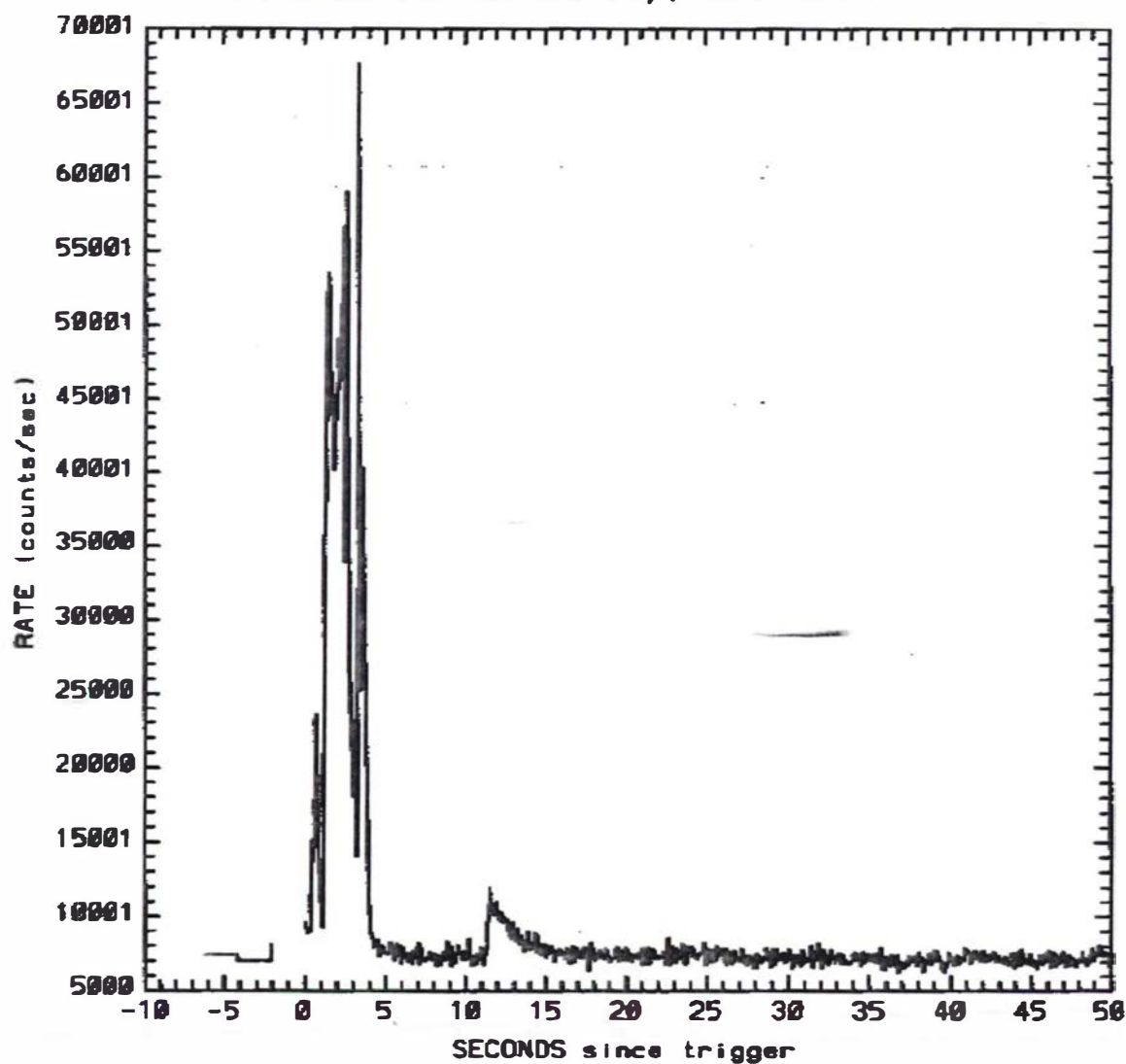
7134.898

25- 100 keV

COUNTS/ .064 S



MER Data for K. Hurley, No. 3734



9-AUG-1995 14:29.35

Created by HOPS 80
(Burst Display)
Version 12.25

Trigger # . 3734

Trigger Time:
9933 / 7134.698Burst Data Type:
MERDeadtime
Corrected. NBackground Data
Type: CONTMinimum Integ. Time:
8.864 secondsDetectors [7..8].
--54--Channels:
(8 , 6)Quality Mask:
BOTSP1

Date: Aug 30 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

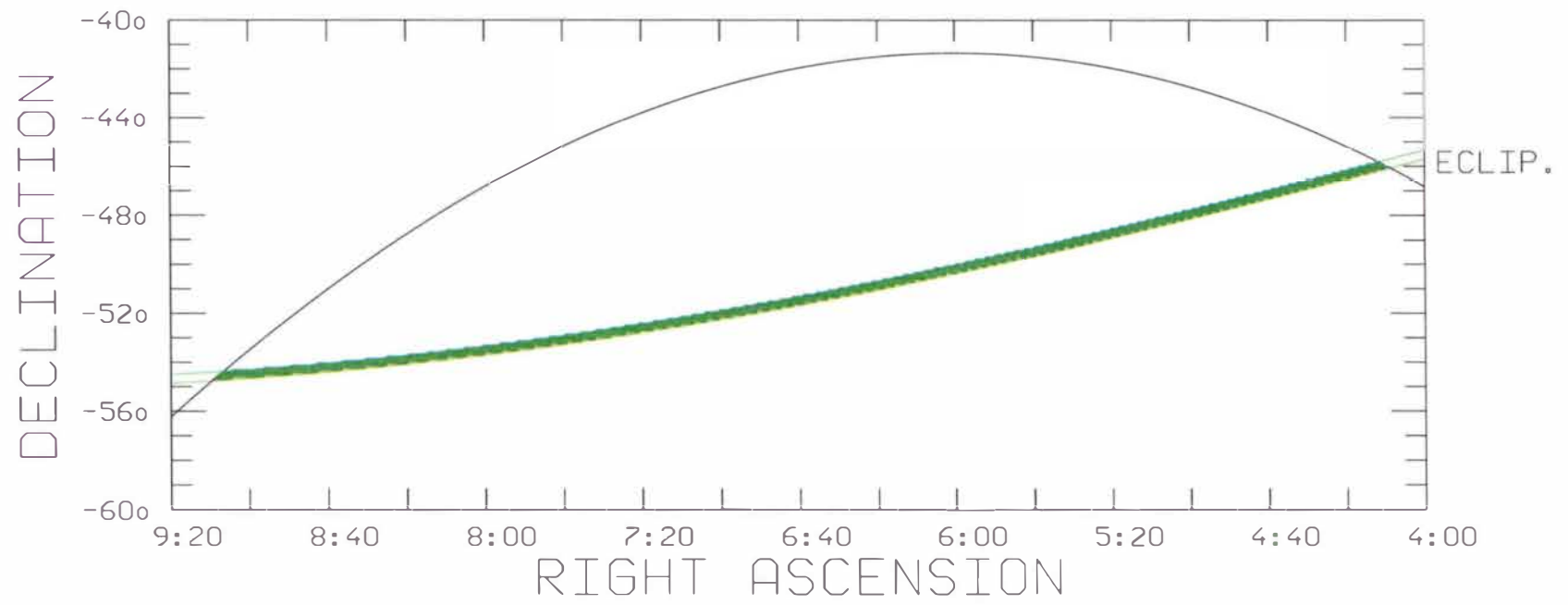
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

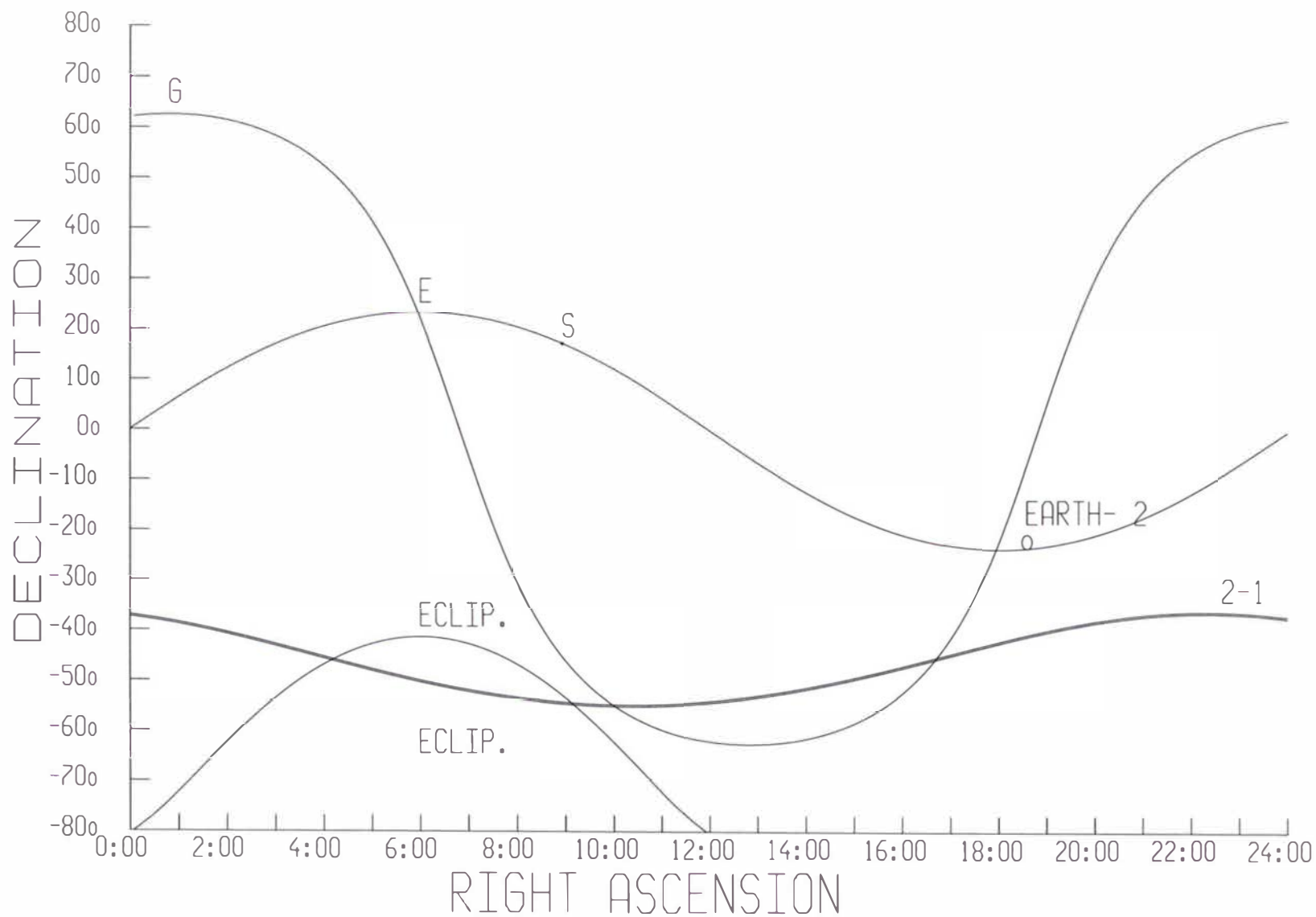
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?



EVENT OF AUG 4, 1995 8:09

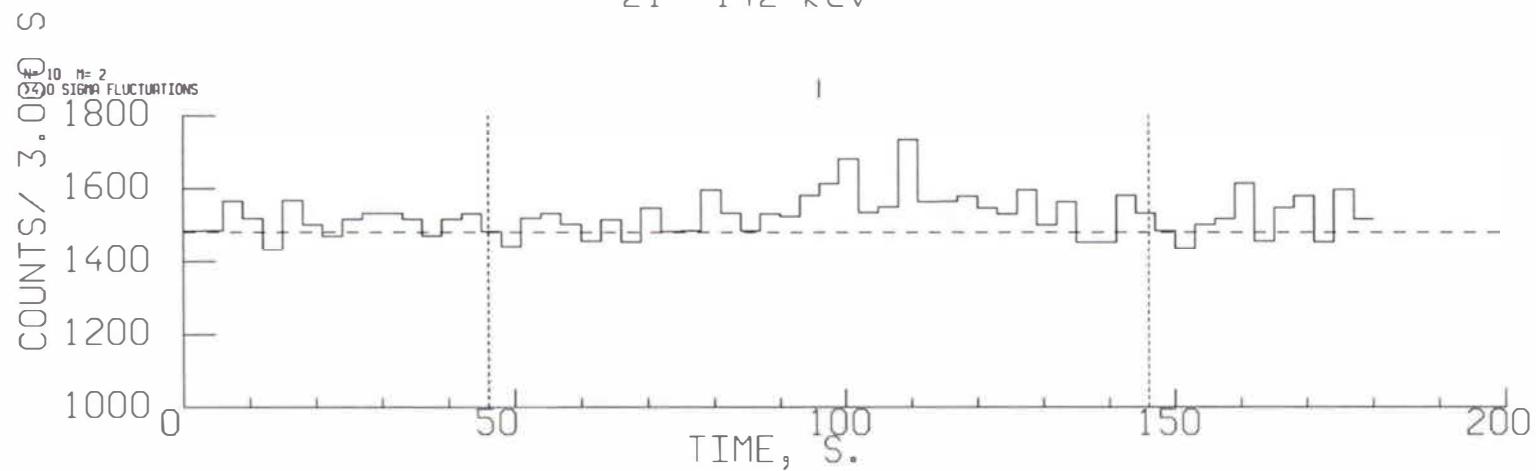
30/08/2011

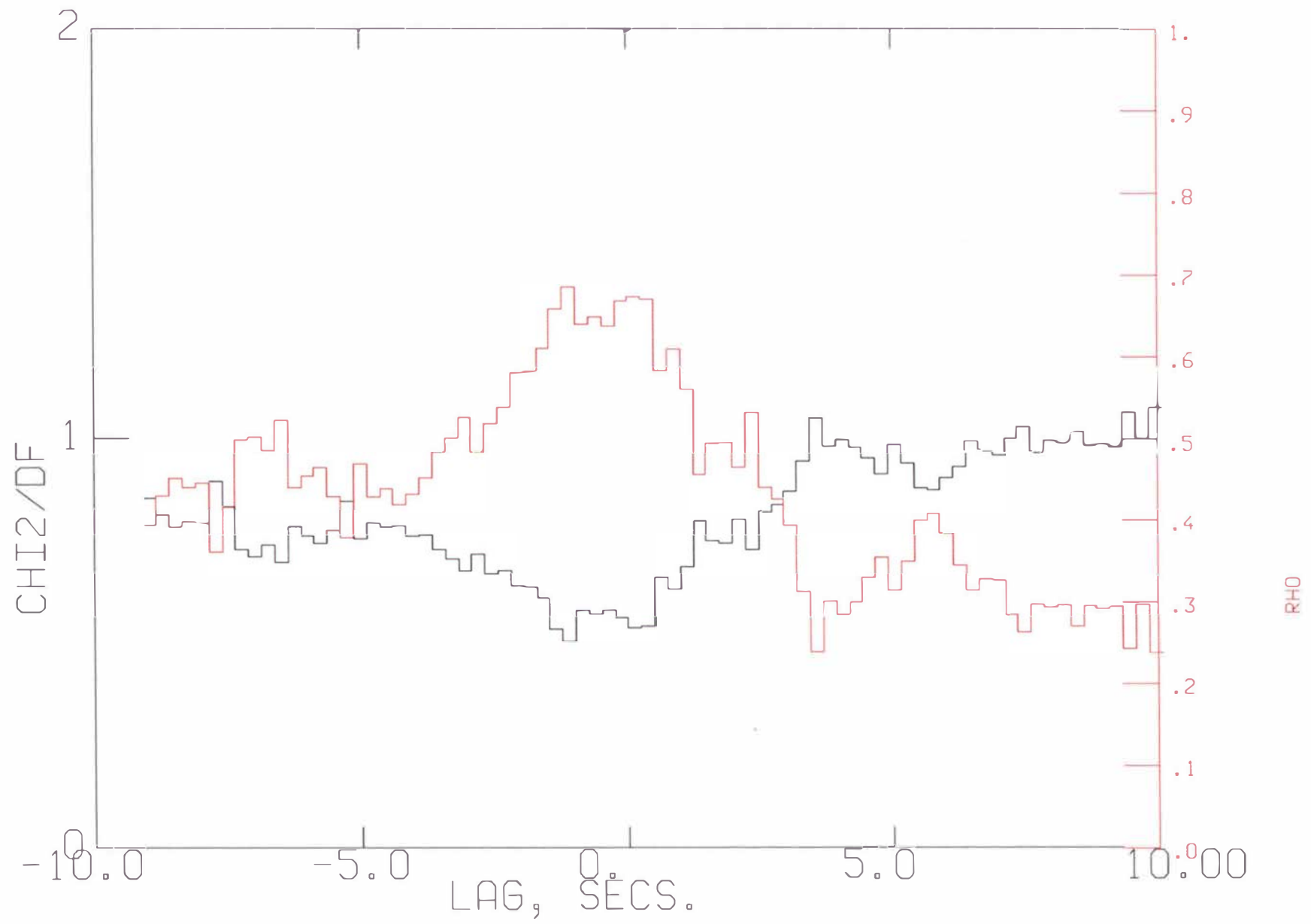
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 ULYSSES 2 KONUS



ULYSSES RT
4/ 8/95 29340.059 s
0.250 S INTERVALS REGROUPED BY 12
21- 142 keV

30/ 8/11





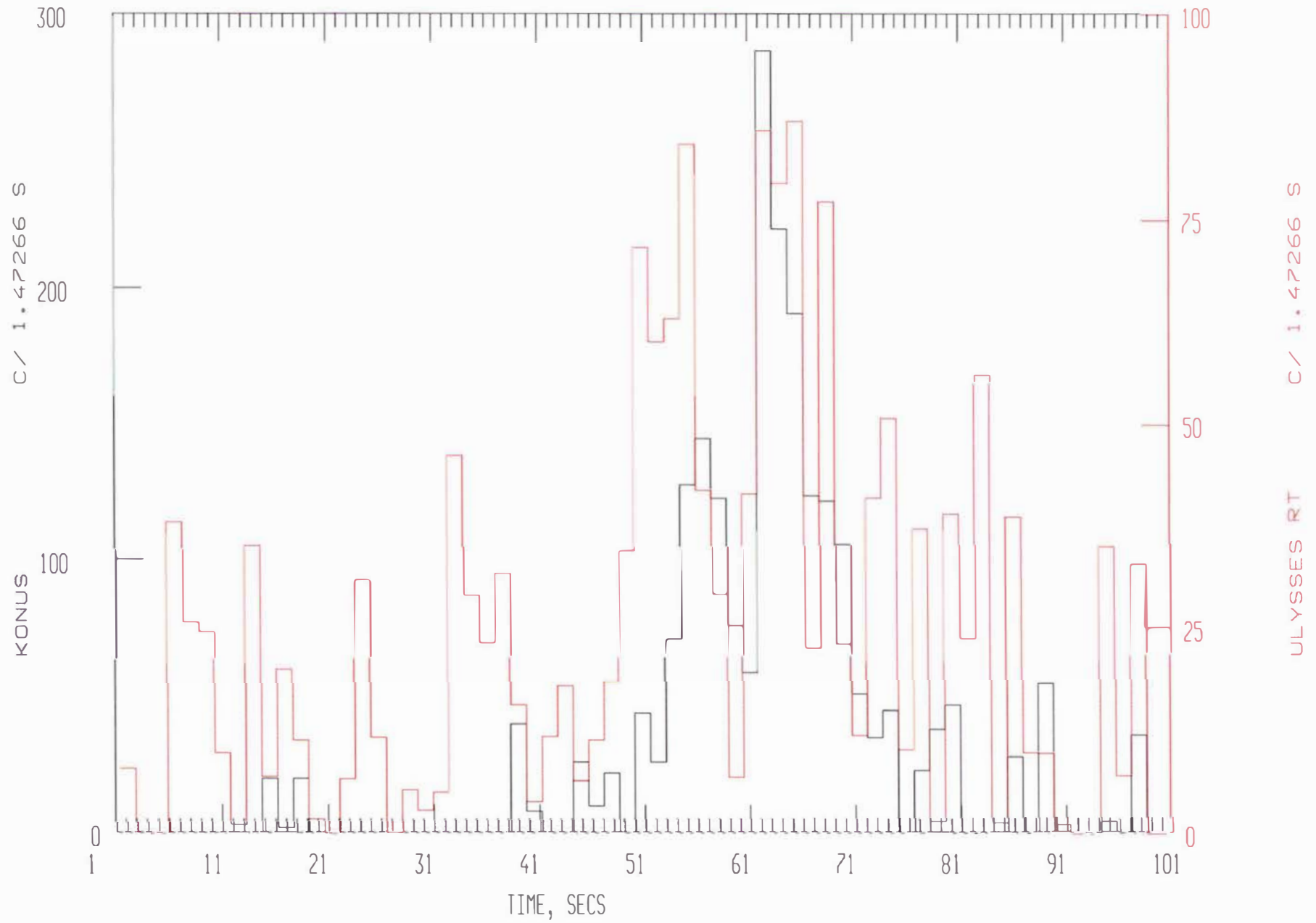
KONUS

-ULYSSES RT CORRELATION

04/08/95

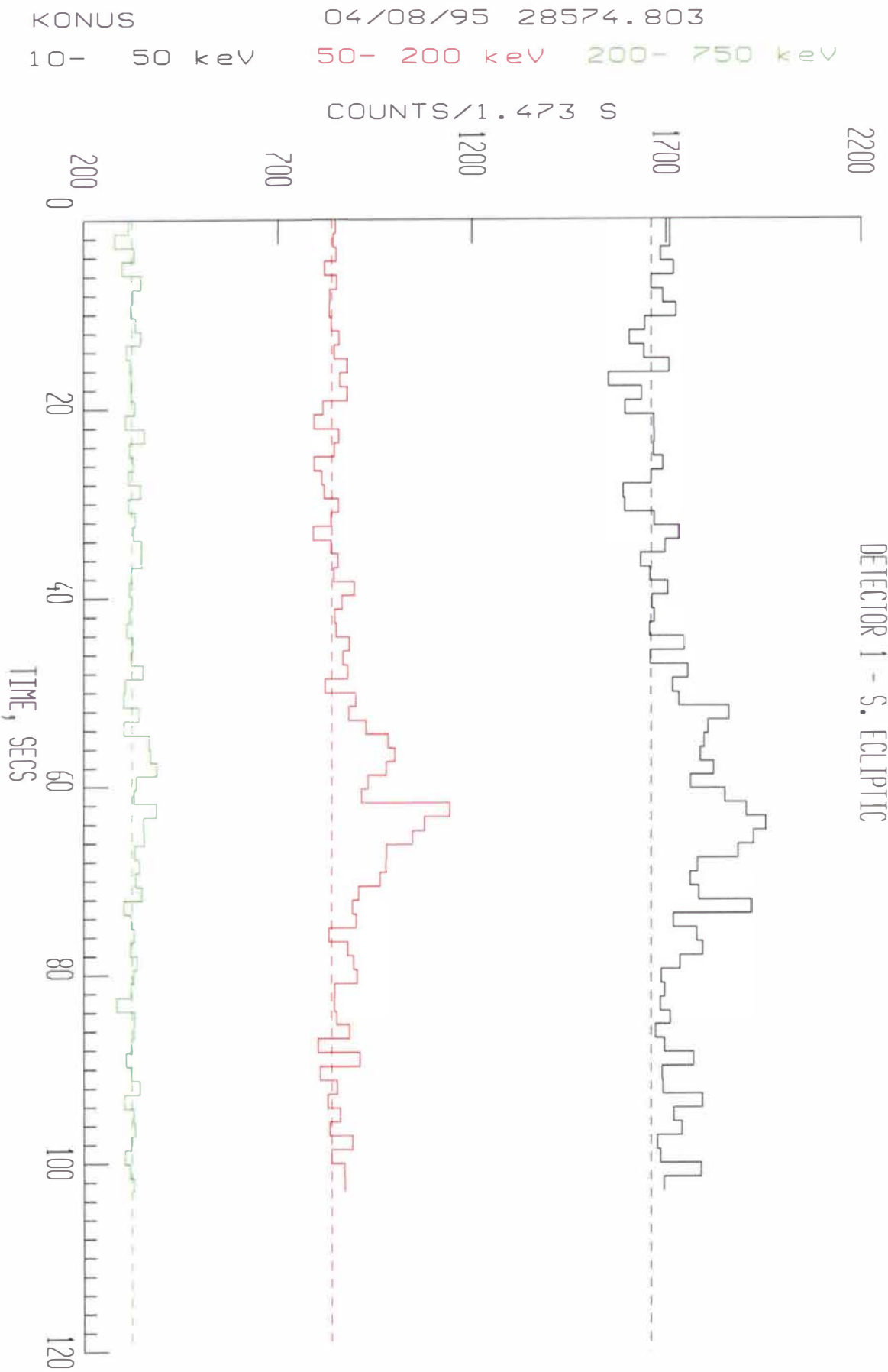
28574.803

30/ 8/11



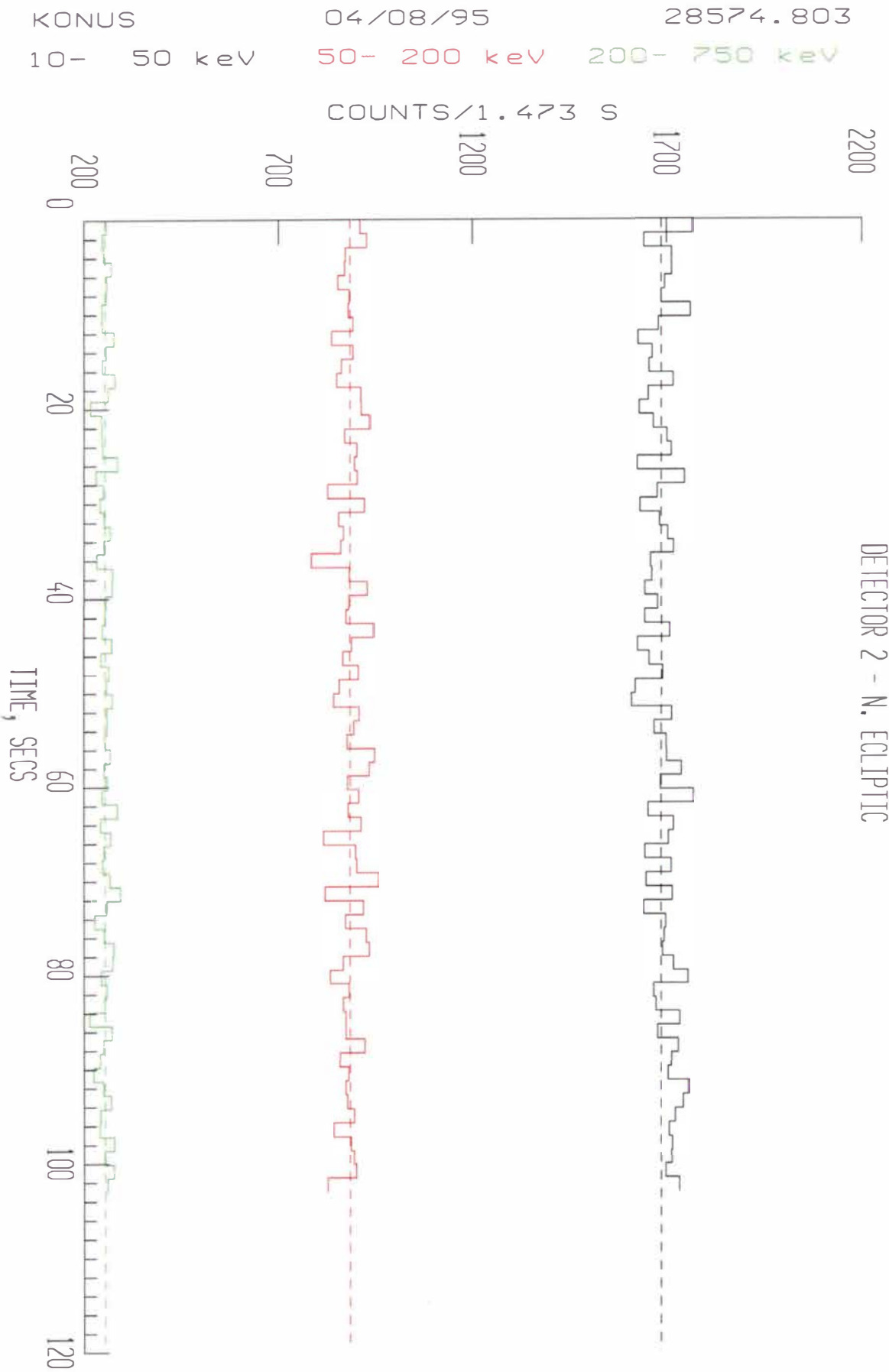
30/08/2011

DETECTOR 1 - S. ECLIPHTIC



30/08/2011

DETECTOR 2 - N. ECLIPSE



KONUS 19950804 29432

ULYSSES RT

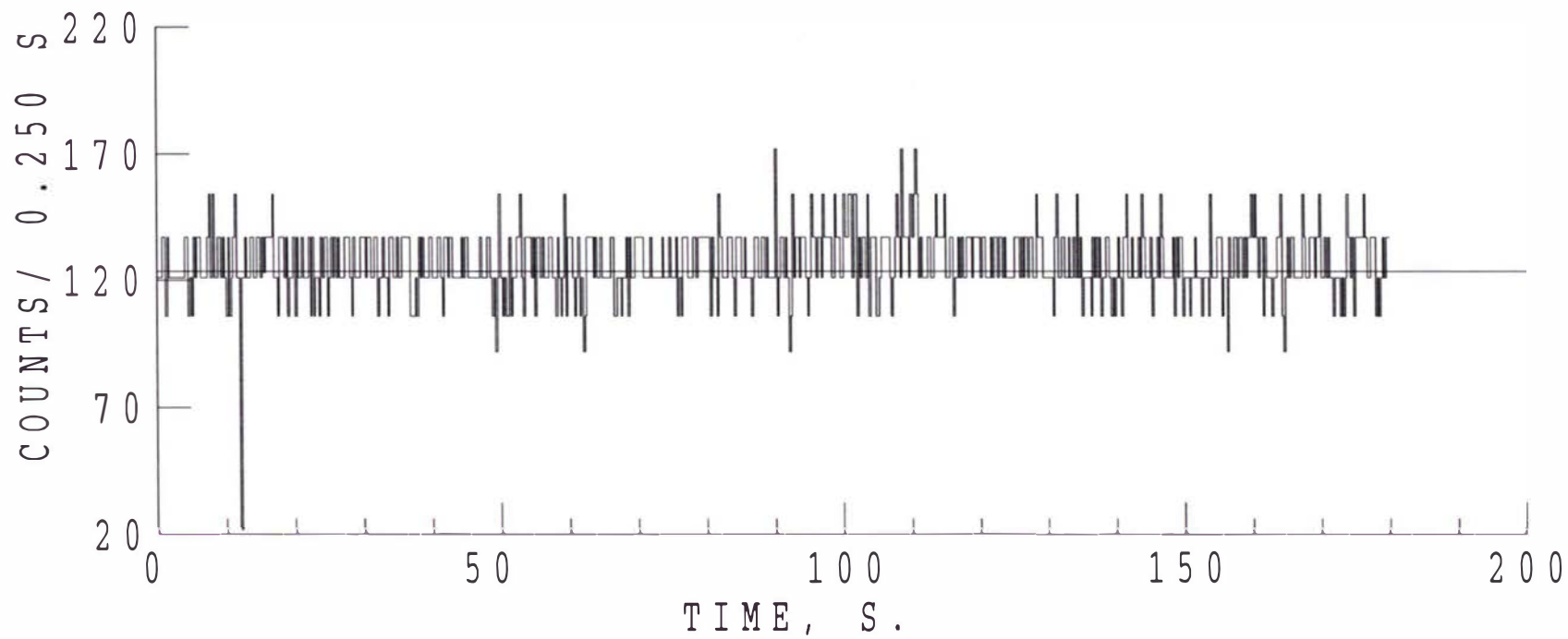
27 / 08 / 11

04 / 08 / 95 29340.059 s

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



KONUS

ULYSSES RT

26 / 01 / 00

04 / 08 / 95 27432.021 s

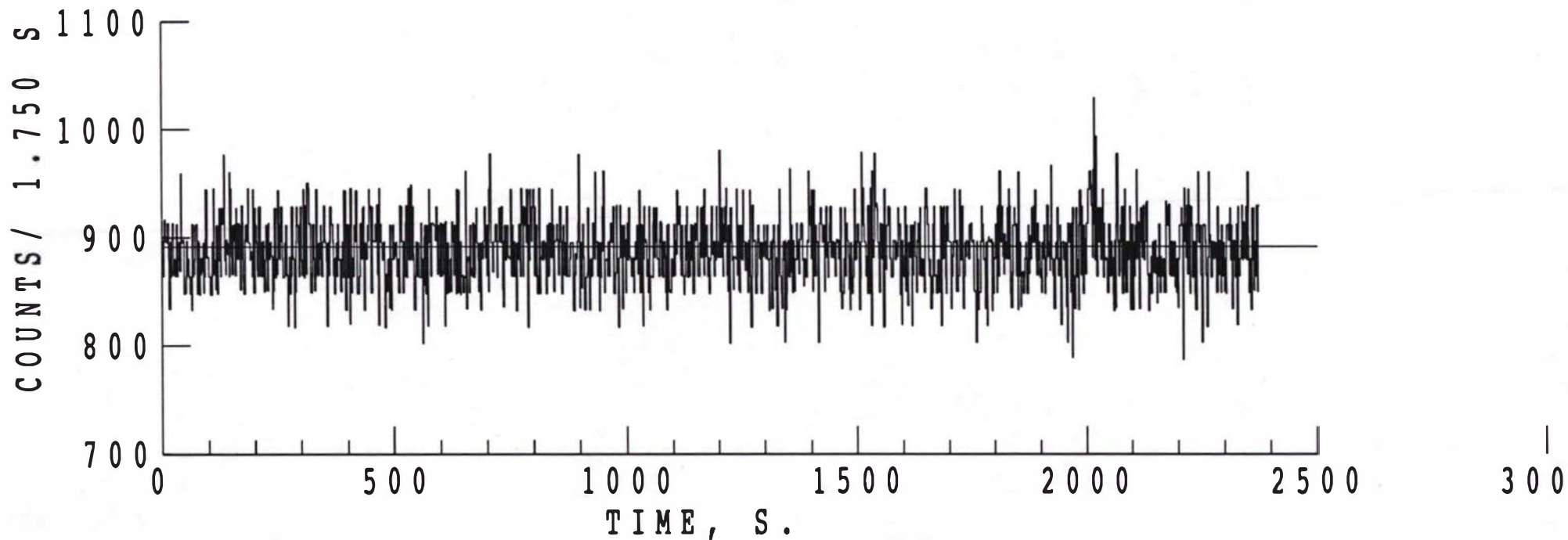
0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

||

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



Date: Sep 2 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

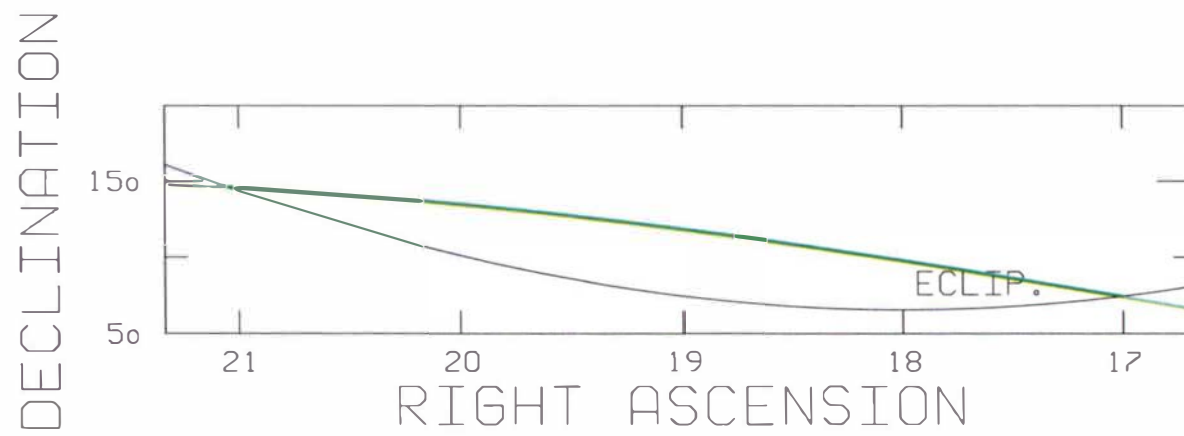
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

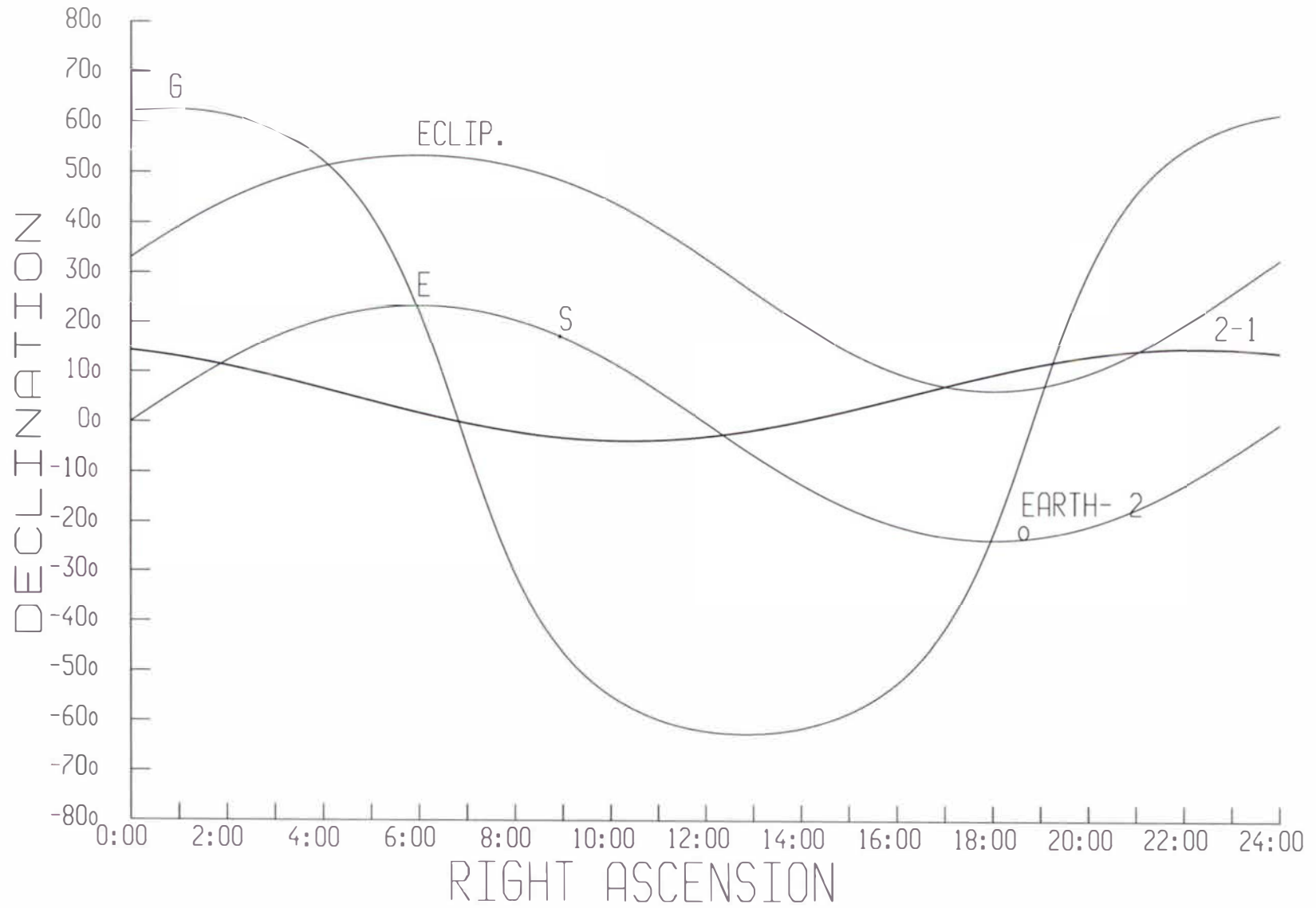
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

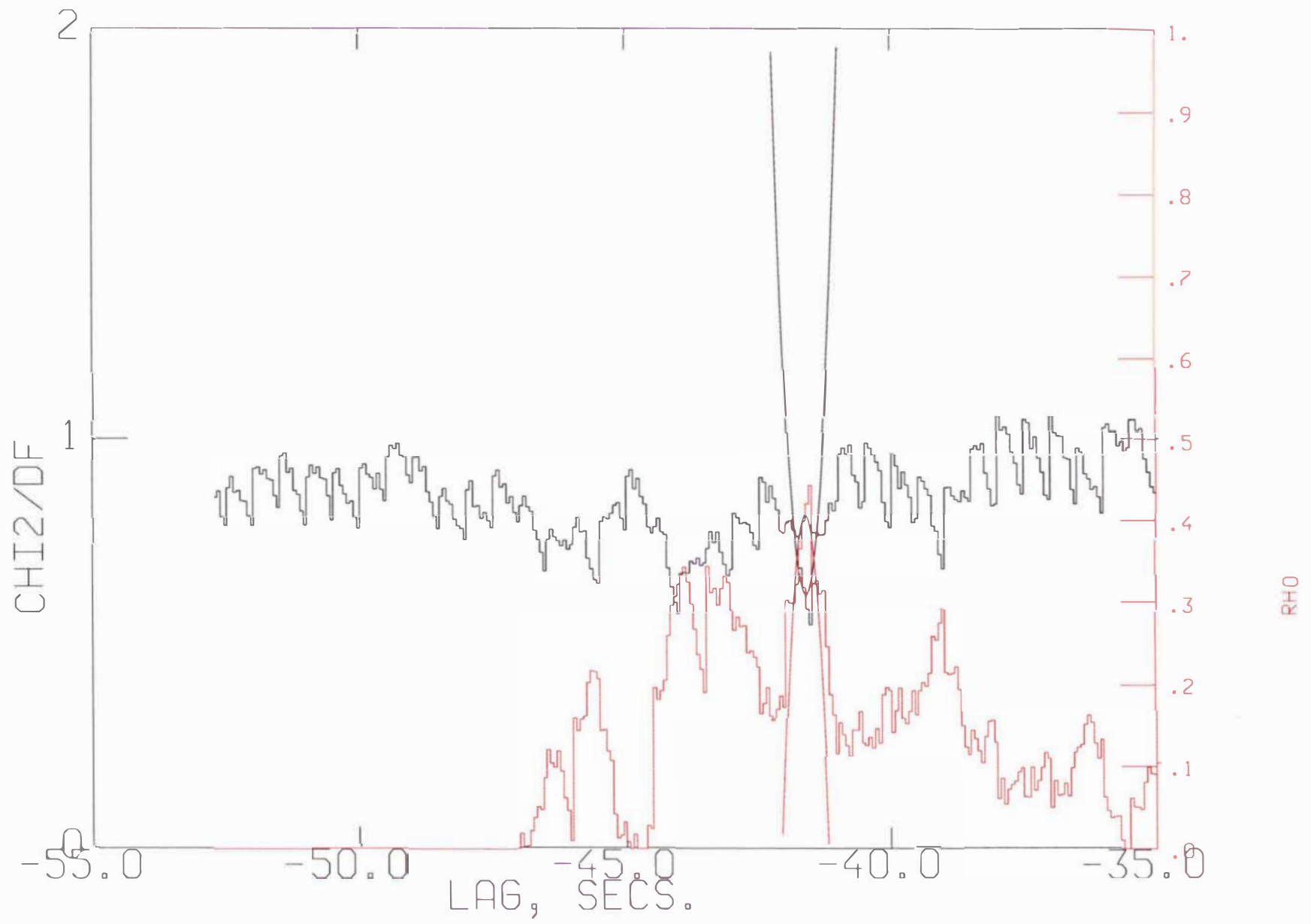


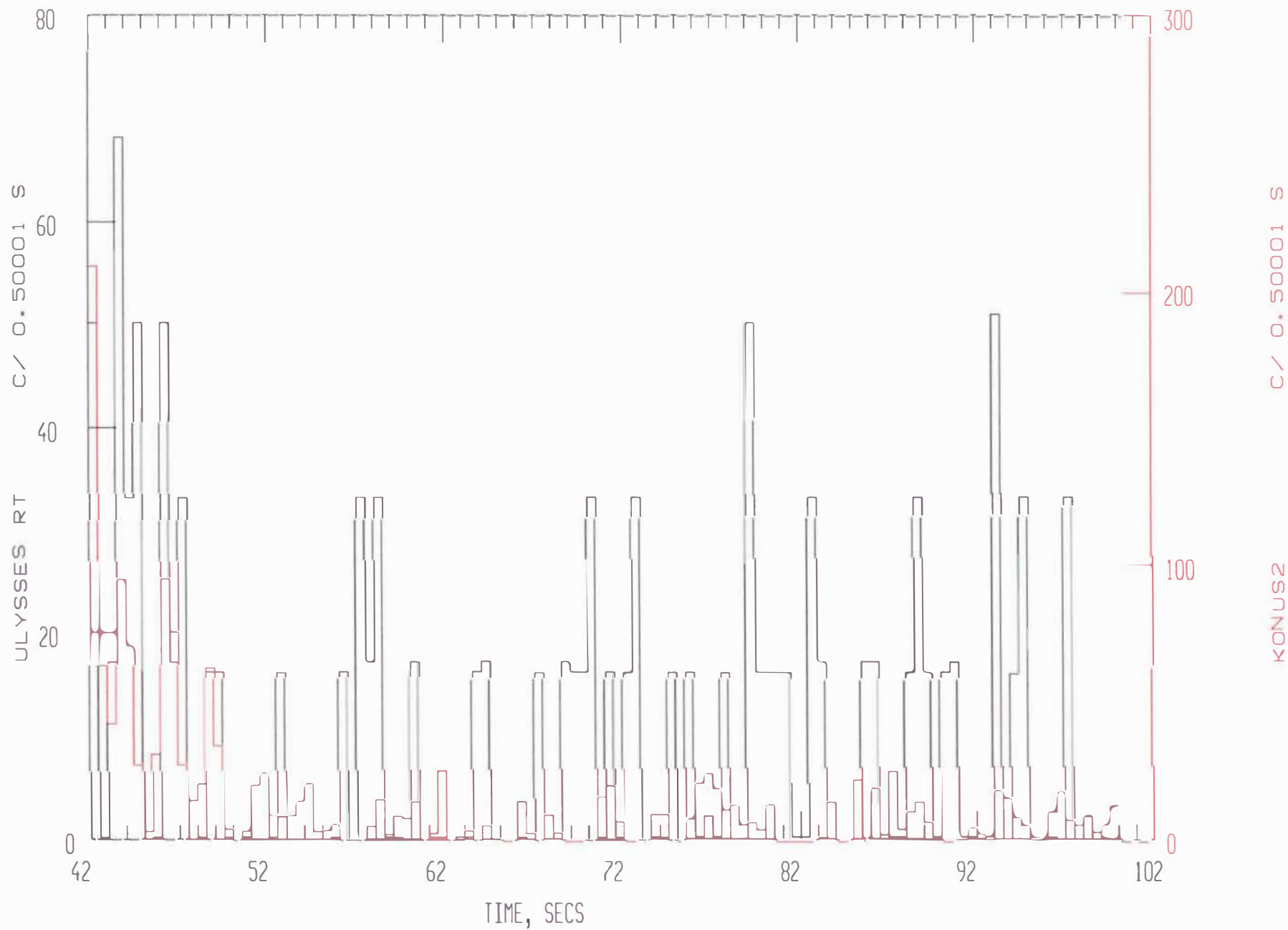
EVENT OF AUG 4, 1995 9:00

02/09/2011

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 19950804 32456

ULYSSES RT

27 / 08 / 11

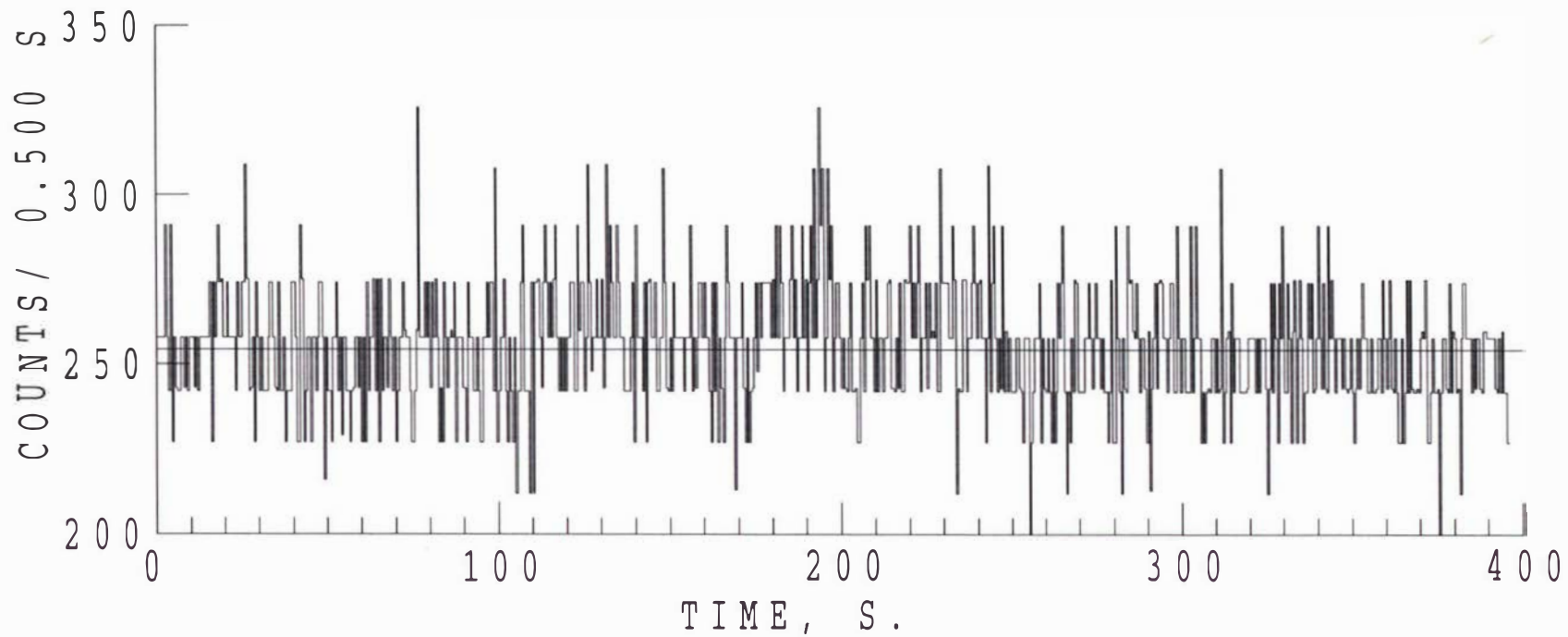
04/08/95 32256.107 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

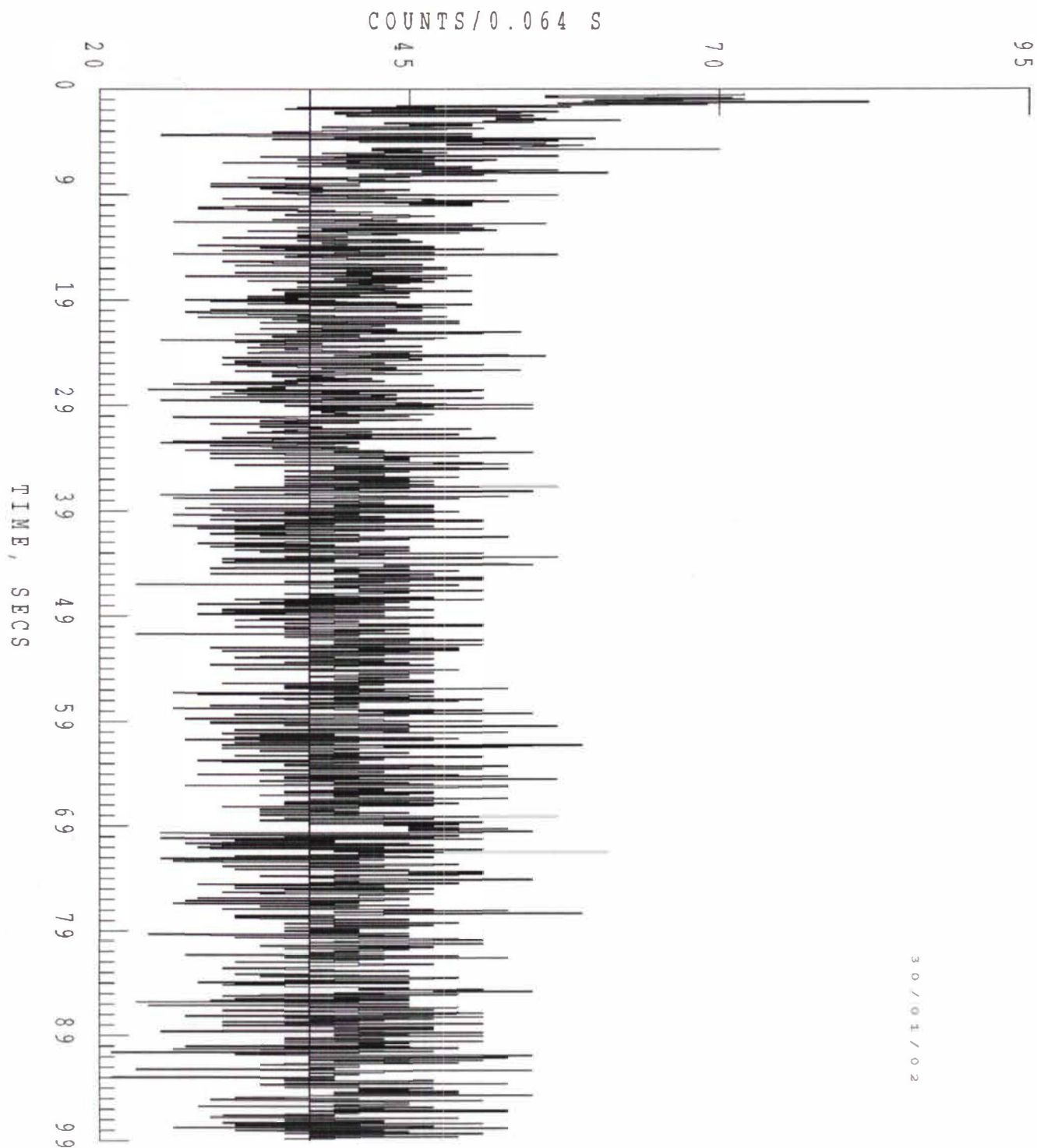


KONUS2

04/08/95

32561.958

50 - 200 keV



KONUS2 19950804 32561

ULYSSES RT

30 / 01 / 02

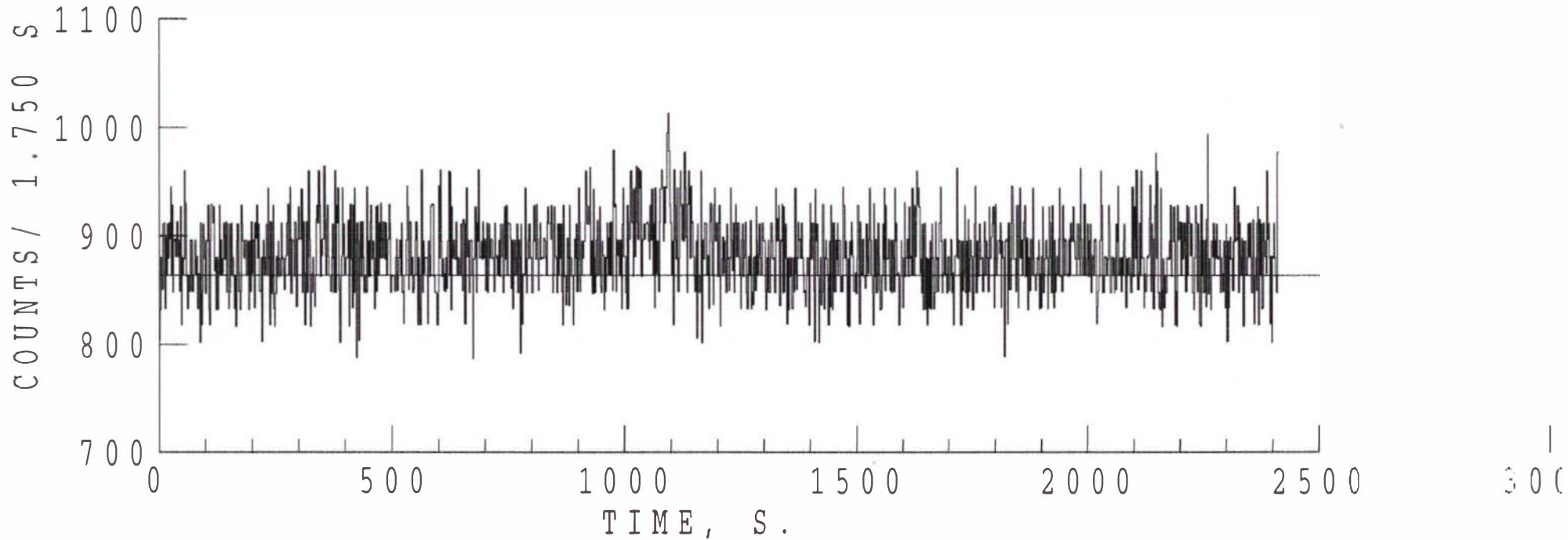
04 / 08 / 95 31356.094 s

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



From HAGEDON@fender.msfc.nasa.gov Mon Aug 7 09:52 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 7 Aug 1995 11:52:10 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3735

BATSEARCH PROGRAM

BATSE BURST # 3735
EVENT OF 1995 AUG 4 DAY OF YEAR=216
EVENT CROSSING TIME AT BATSE : 45376. S. OR 12:36:16.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 187.000 17.000
BATSE PEAK COUNTING RATE: 17000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 4/ 8/ 95 IS:
RA= 154.018 DEC= 80.782 DIST= 2.277 AU
BATSE-ULYSSES DISTANCE = 340579842. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=114.65 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -473.85 SECS.
CROSSING TIME AT ULYSSES IS 44902. S. OR 12:28:22 +/- 222.06 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 4/ 8/ 95 IS:
RA= 187.598 DEC= -3.028 DIST= 1.875 AU
MARS-BATSE DISTANCE = 280510432. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=159.96 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -879.05 SECS.
CROSSING TIME AT MARS IS 44497. S. OR 12:21:36 +/- 42.31 SECONDS

BATSE BURST TRIGGER

NO.: 3735

TIME: TJD=9933 SECONDS=45376

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=144.8 AZIMUTH=61.2 ERROR=2.92 DEGREES

COMMENTS:

BURST. SINGLE SPIKE WITH SUBSTRUCTURE. DUR.~2 SEC. VISIBLE ABOVE 300 KEV.
LOCATION ERROR STATED IS STATISTICAL. ADD 1.5 DEG SYSTEMATIC ERROR.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3735	950804	9933	45376	17000	187	+17	2

4 / 8 / 95

ULYSSES RT

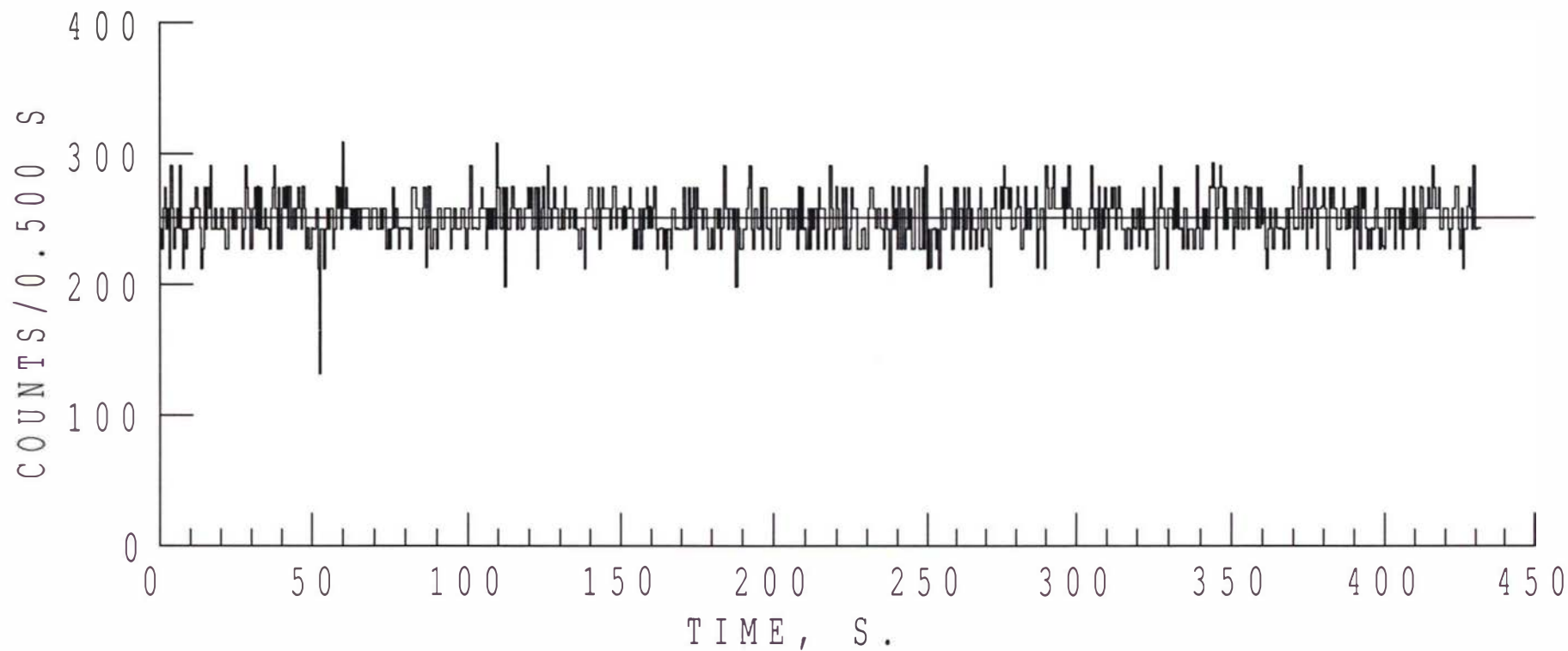
4 / 8 / 95 44676.074 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From khurley@sunspot Tue Sep 26 08:37 PDT 1995
Date: Tue, 26 Sep 1995 08:24:27 -0700
From: khurley@sunspot (Kevin Hurley)
To: butterworth@lheavx.gsfc.nasa.gov, khurley@sunspot
Subject: Konus triggers in August

Dear Paul,

Here's the completed list. The data gap on the 9th is likely to be filled when we get our final data CD in a month or so.

Kevin

```
> -----
> Konus Triggers
> -----
>
>
> KONUS#      Date      Time      Event      T#      B#      U#
> detector
>
> 136  8/02      22:25:43.788  particle (near Earth)  n/a  n/a  n/a
> 137  02        23:00:16.156  particle (near Earth)  n/a  n/a  n/a
> 138 N 04       01:58:55.704  strong,multi-peak,3sGRB  -    3734  TRIGGER
> 139 N 04       09:02:41.958  weak,multi-peak,120sGRB  -    -    RI
> 140 N 04       12:36:17.251  weak,single-peak,0.5sGRB  -    3735  NO
> 141 N 05       00:04:43.498  weak,multi-peak,25sGRB  -    -    NO
> 142 S 05       03:44:14.144  strong,single-peak,0.1sGRB  326  3736  RI
> 143 S 09       23:52:25.672  strong,double-peak,4sGRB  329  3750  DATA GAP
> 144 N 18       01:24:25.640  v.strong,single-peak,10sGRB  330  3765  TRIGGER
> 145  20       00:45:06.928  particle (near Earth)  n/a  n/a  n/a
> 146  20       14:24:17.743  particle (near Earth)  n/a  n/a  n/a
> 147 S 22       03:49:10.530  v.strong,multi-peak,30sGRB  336  3767  TRIGGER
> 148 N 25       04:24:23.399  moderate,multi-peak,120sGRB  -    -    RI
>
```

2 5 / 9 / 9 5

U L Y S S E S R T

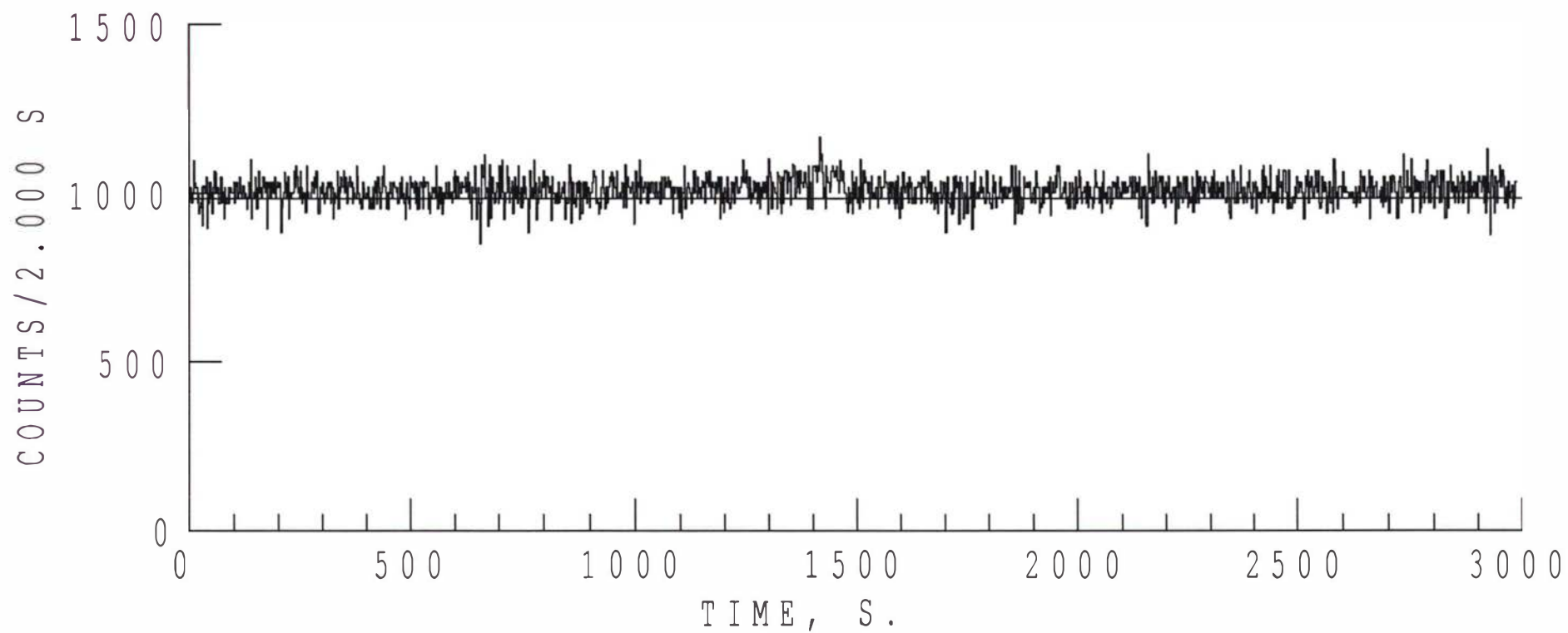
4 / 8 / 9 5 3 1 0 3 2 . 0 8 8 s

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 8

0 - 0 k e V

N = 10 M = 2

> 4.0 SIGMA FLUCTUATIONS



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 khurley@sunspot Tue Sep 26 08:37 PDT 1995
Date: Tue, 26 Sep 1995 08:24:27 -0700
From: khurley@sunspot (Kevin Hurley)
To: butterworth@heavx.gsfc.nasa.gov, khurley@sunspot
Subject: Konus triggers in August

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Here's the completed list. The data gap on the 9th is likely to be filled when we get our final data CD in a month or so.

Kevin

```
> -----
> Konus Triggers
> -----
>
> KONUS#      Date      Time      Event      T#      B#      U#
> detector
>
> 136      8/02      22:25:43.788      particle (near Earth)      n/a      n/a      n/a
> 137      02      23:00:16.156      particle (near Earth)      n/a      n/a      n/a
> 138 N 04      01:58:55.704      strong,multi-peak,3sGRB      -      3734      TRIGGER
> 139 N 04      09:02:41.958      weak,multi-peak,120sGRB      -      -      RI
> 140 N 04      12:36:17.251      weak,single-peak,0.5sGRB      -      3735      NO
> 141 N 05      00:04:43.498      weak,multi-peak,25sGRB      -      -      NO
> 142 S 05      03:44:14.144      strong,single-peak,0.1sGRB      326      3736      RI
> 143 S 09      23:52:25.672      strong,double-peak,4sGRB      329      3750      DATA GAP
> 144 N 18      01:24:25.640      v.strong,single-peak,10sGRB      330      3765      TRIGGER
>      45      20      00:45:06.928      particle (near Earth)      n/a      n/a      n/a
>      46      20      14:24:17.743      particle (near Earth)      n/a      n/a      n/a
> 147 S 22      03:49:10.530      v.strong,multi-peak,30sGRB      336      3767      TRIGGER
> 148 N 25      04:24:23.399      moderate,multi-peak,120sGRB      -      -      RI
>
```

7 / 8 / 95

ULYSSES RT

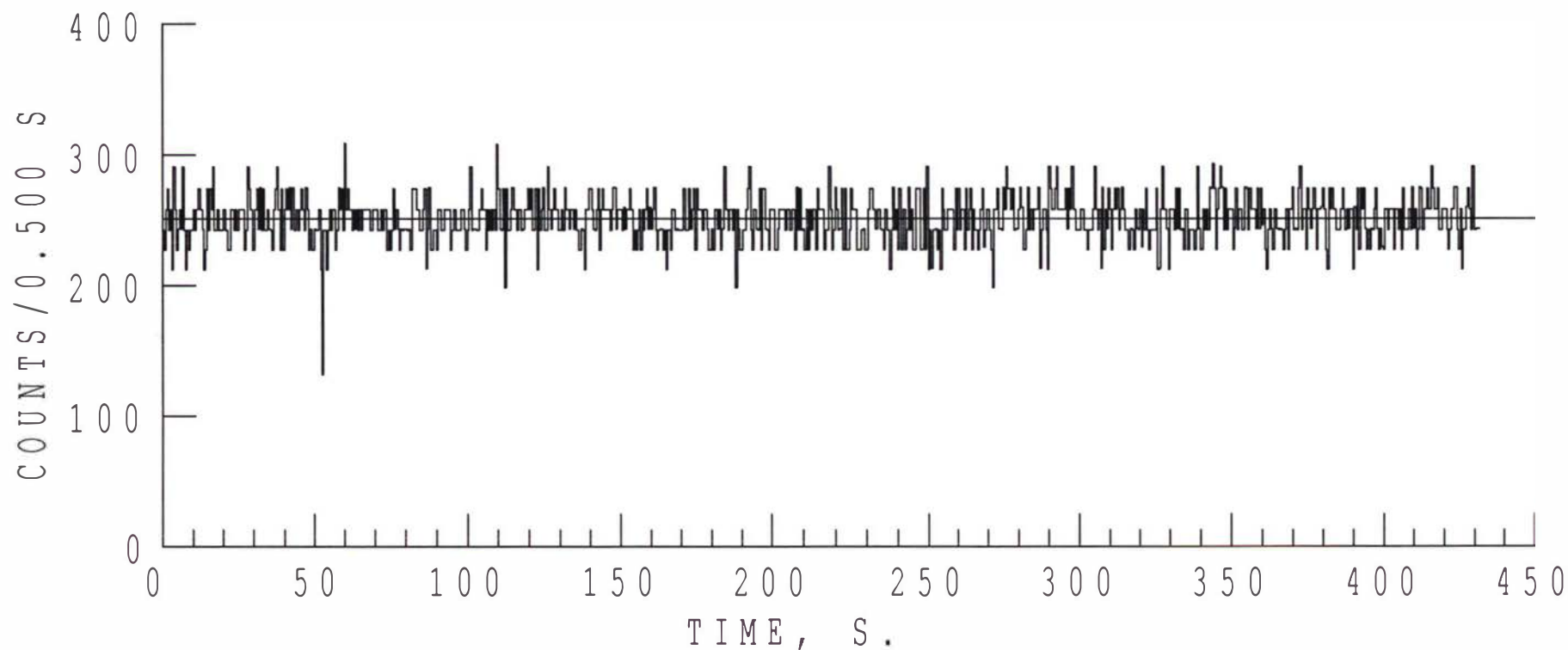
4 / 8 / 95 44676.074 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



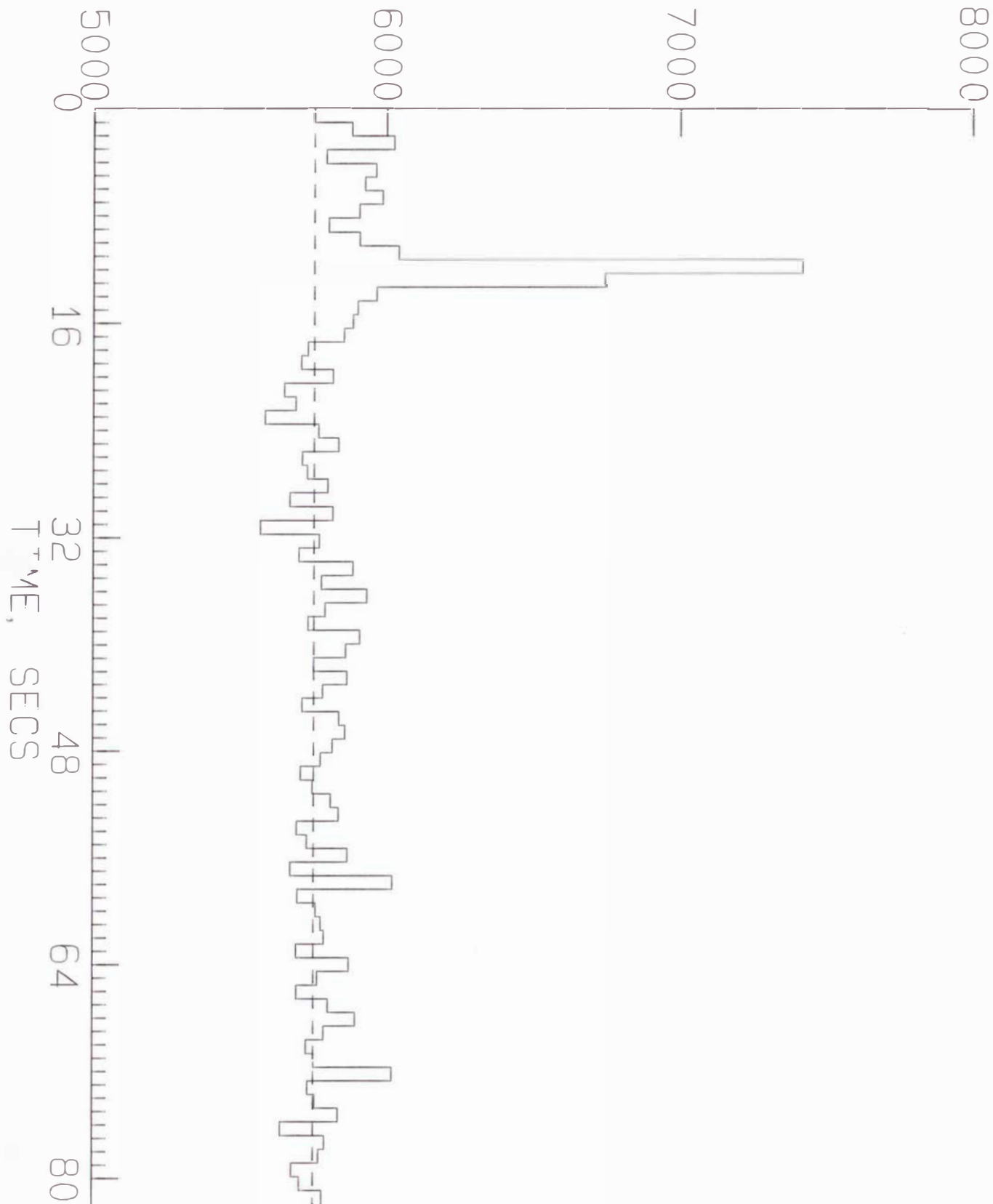
BACODINE

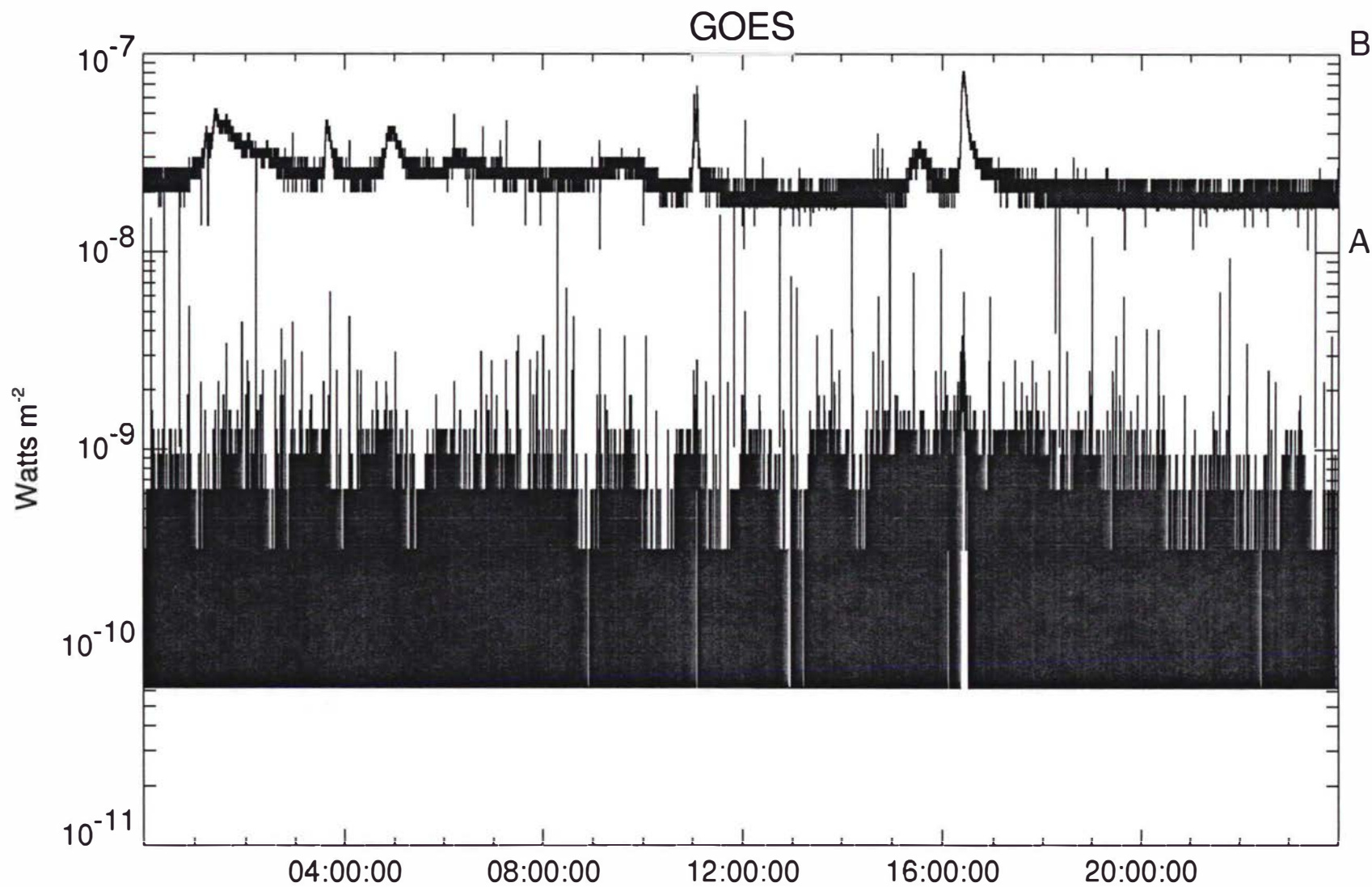
04/08/95

45364.913

25- 100 keV

COUNTS/1.024 S





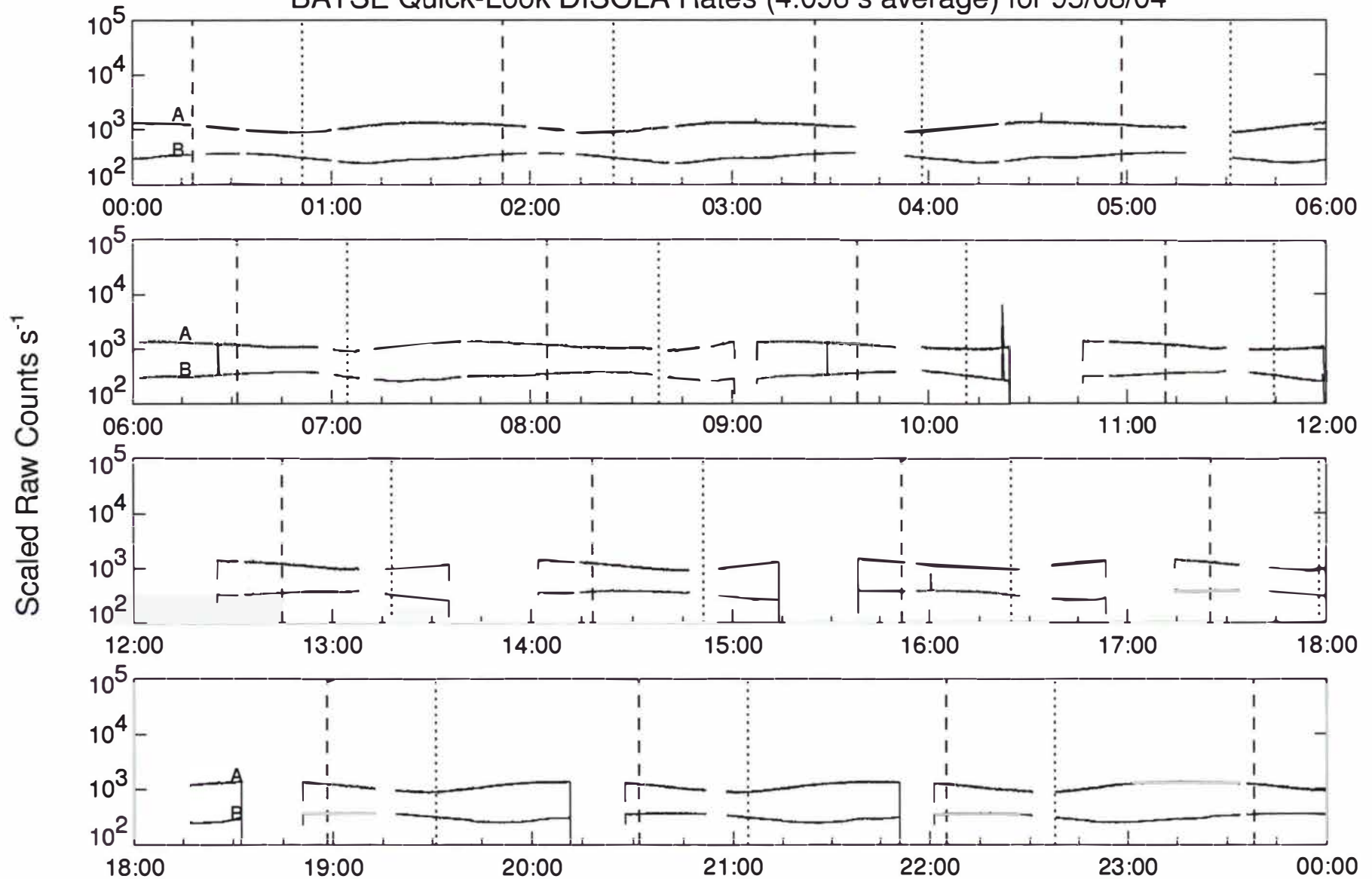
Data Start: 95/08/04, 0000:00

Plot created: 95/08/06, 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 95/08/04



Current Time: 95/08/06, 0529 EDT

A: Channel 0 Most Sunward LAD

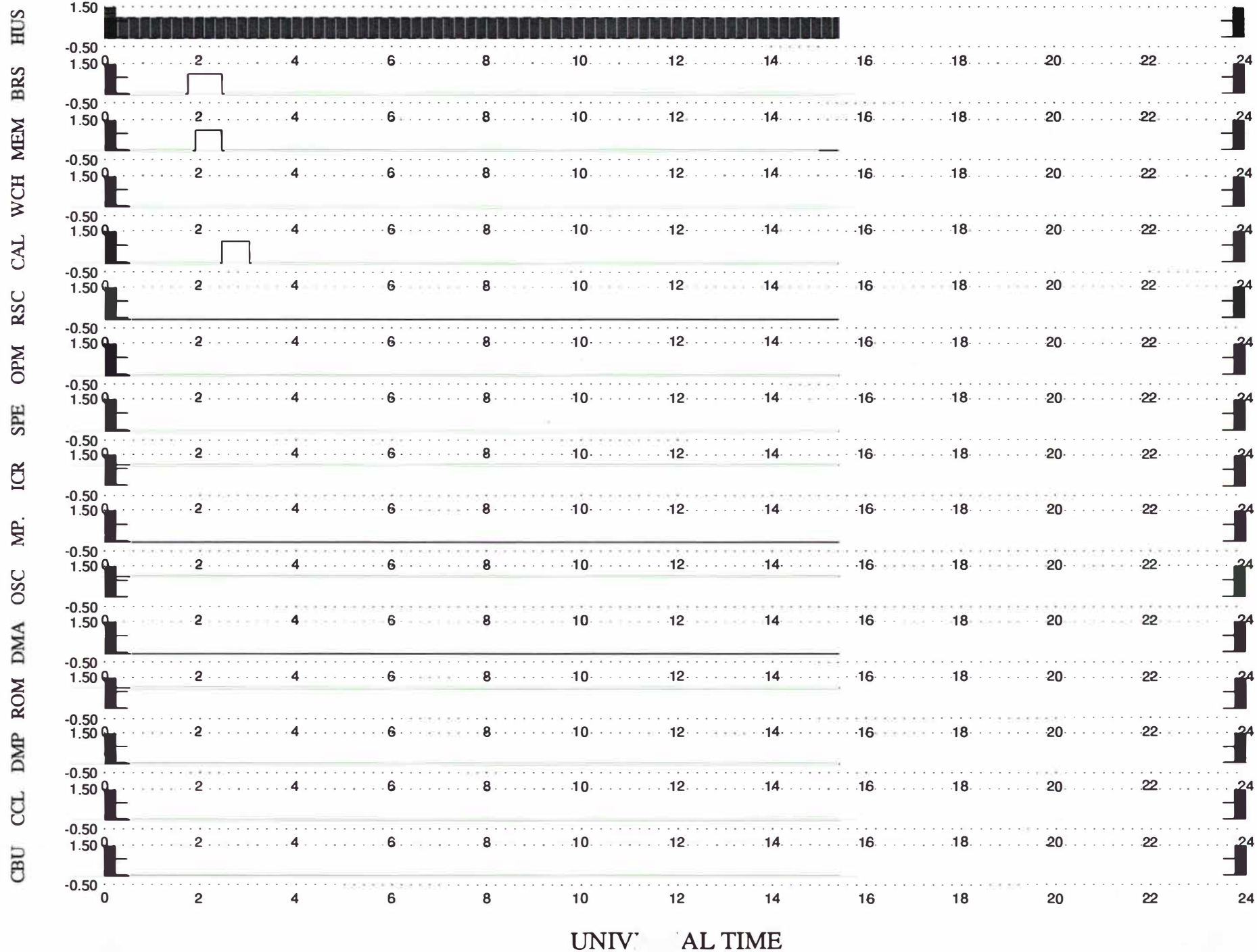
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

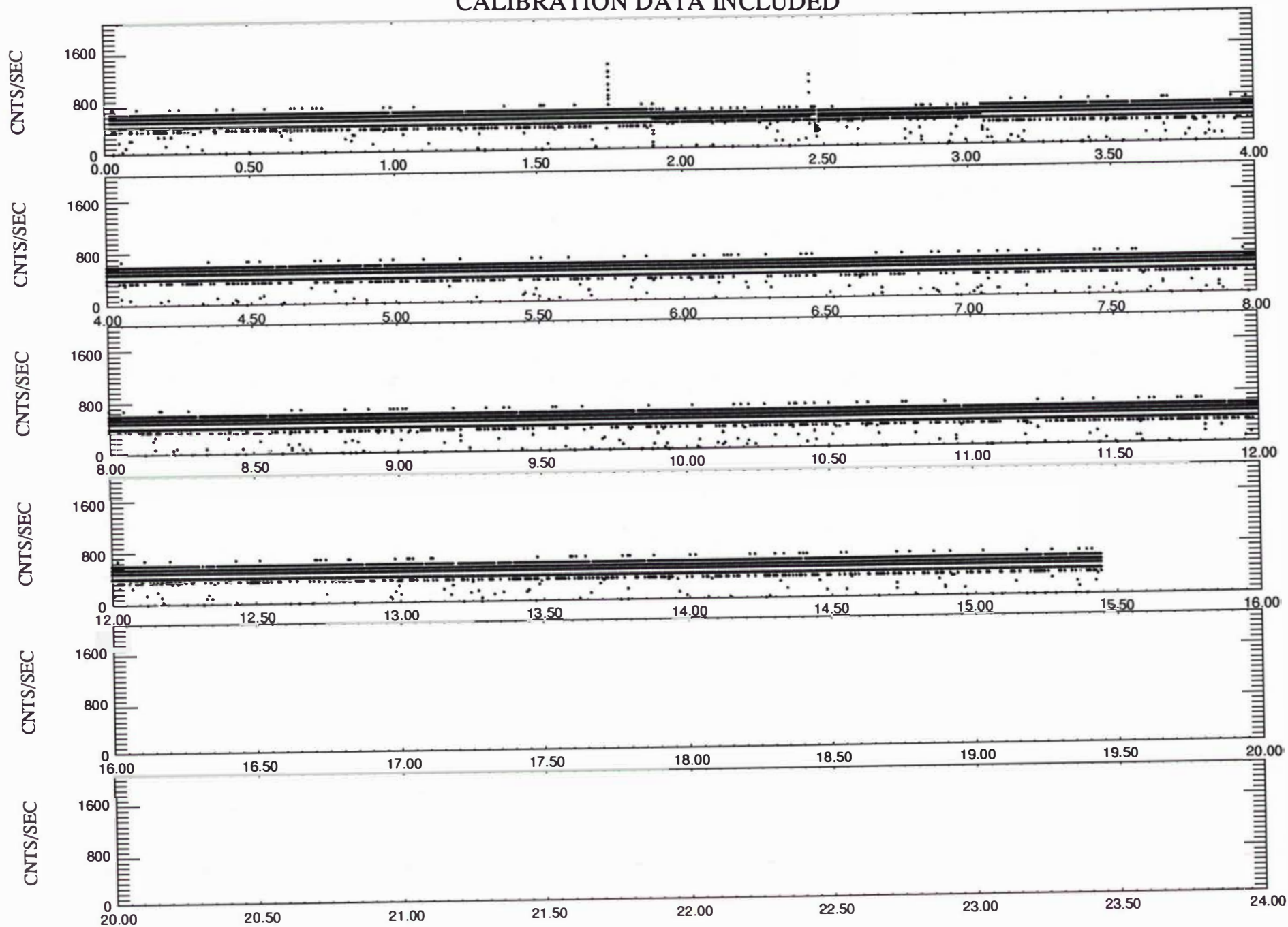
HUS MODES EDR day 216, year 1995 to day 216, year 1995
BURST NUMBER 8

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 216, year 1995 to day 216, year 1995
CALIBRATION DATA INCLUDED

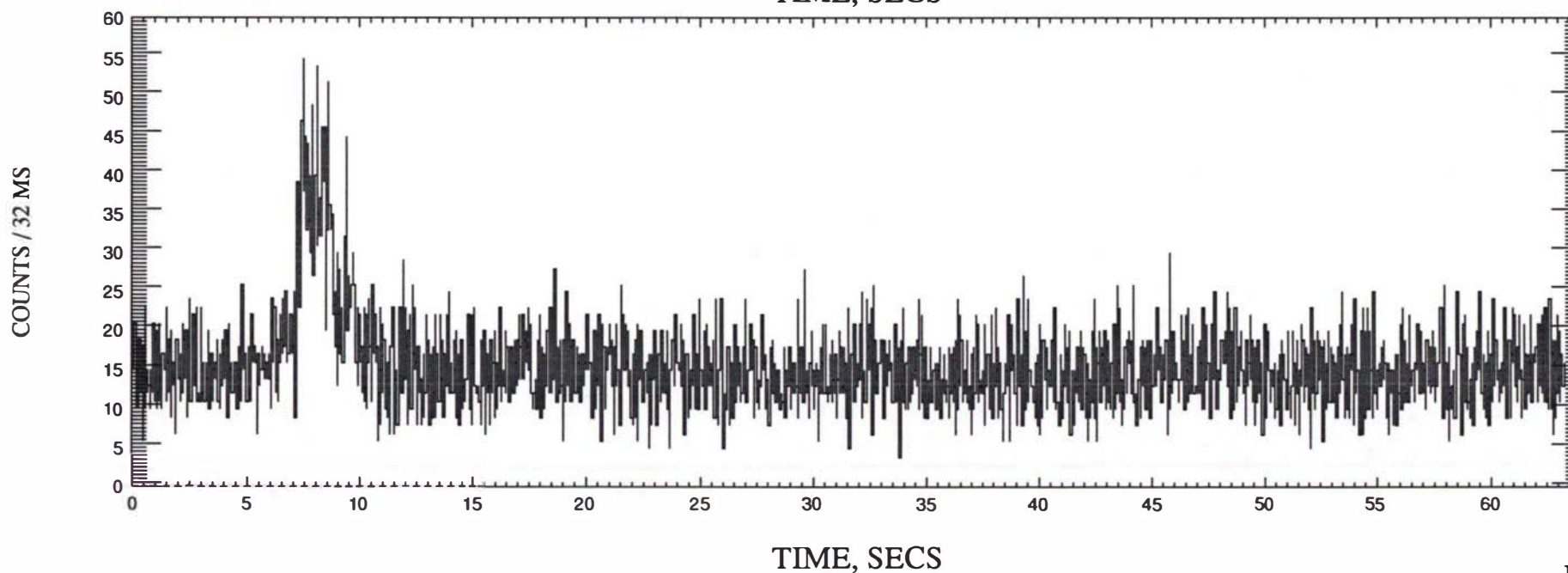
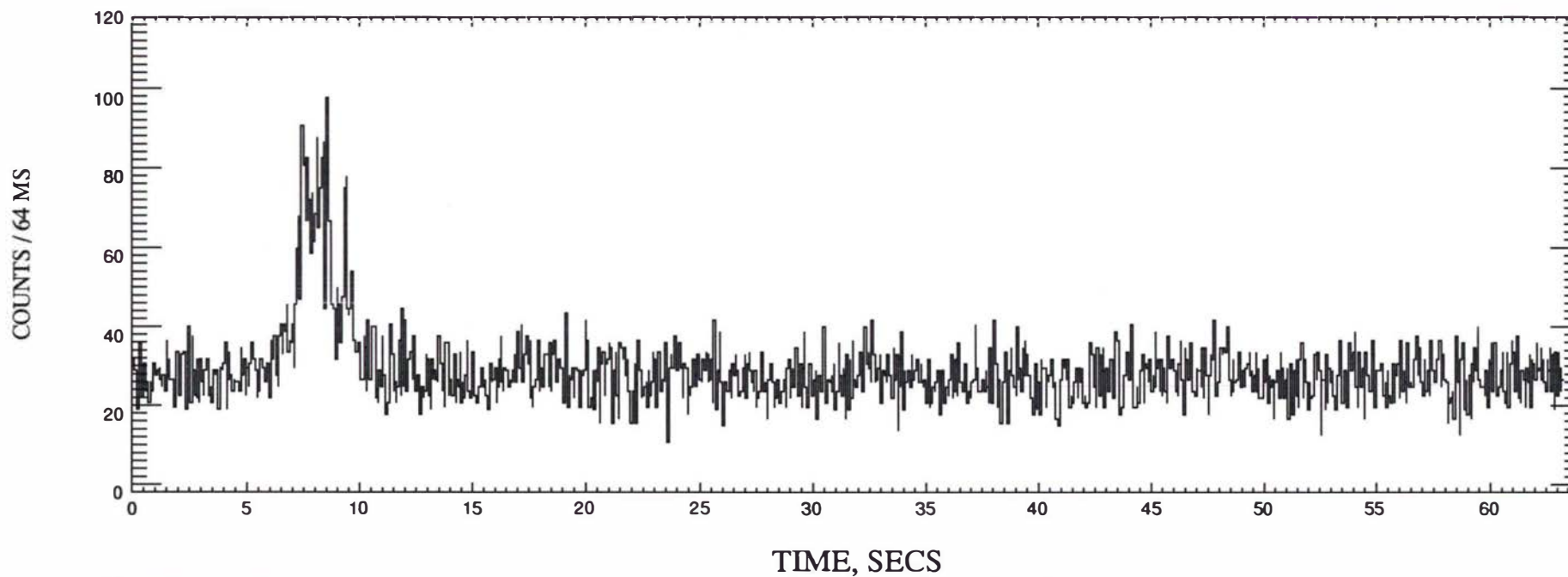
1/25/96

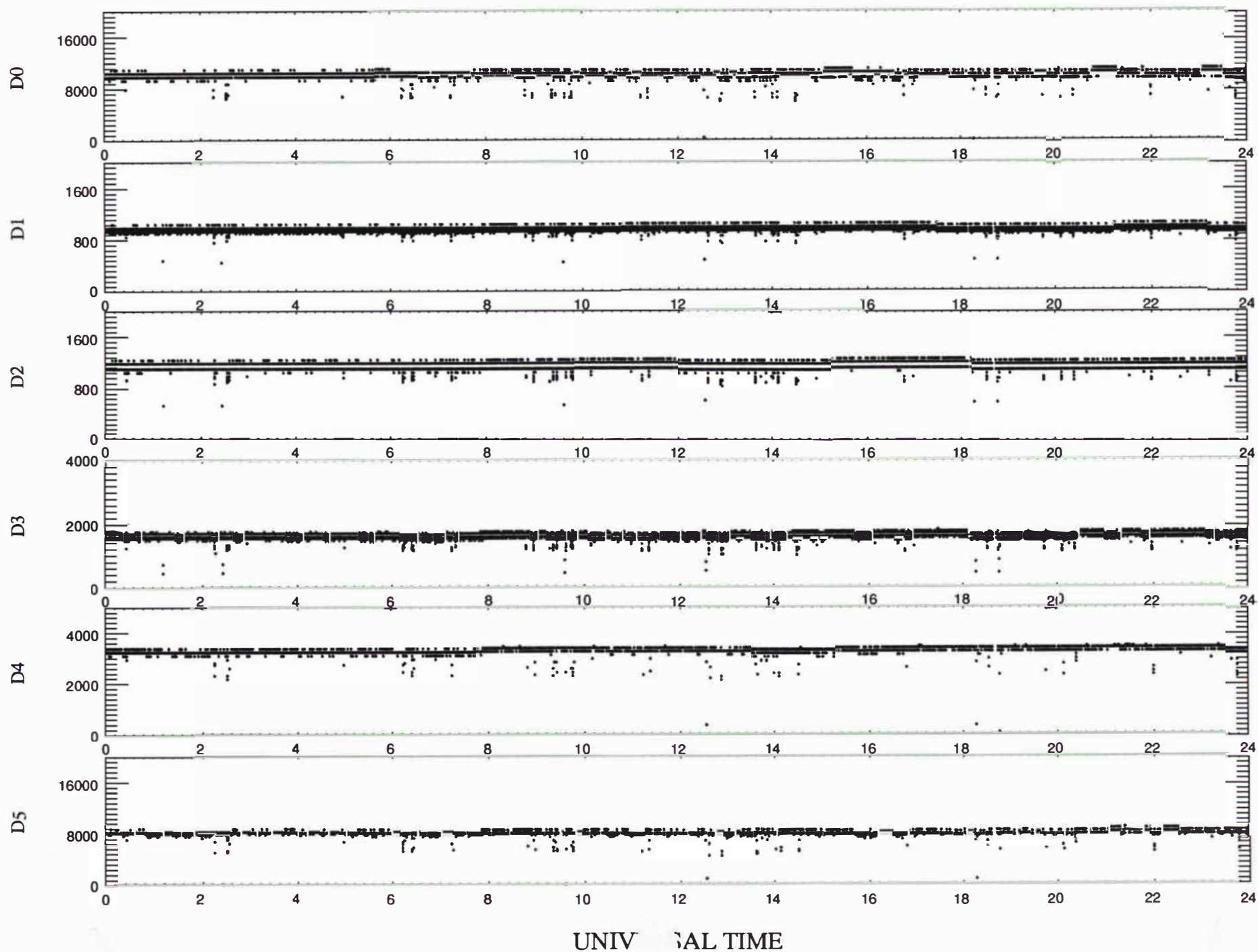


UNIV. TIME

HUS 2A TRIGGERED DATA EDR day 216, year 1995
Burst Counter 8 at UT= 1.744410362244 h= 6279.877 s 01:44:39.877

2/2/96





From khurley@sunspot Tue Sep 26 08:37 PDT 1995
Date: Tue, 26 Sep 1995 08:24:27 -0700
From: khurley@sunspot (Kevin Hurley)
To: butterworth@heavx.gsfc.nasa.gov, khurley@sunspot
Subject: Konus triggers in August

Dear Paul,

Here's the completed list. The data gap on the 9th is likely to be filled when we get our final data CD in a month or so.

Kevin

```
> -----
> Konus Triggers
> -----
>
>
> KONUS#      Date      Time      Event      T#      B#      U#
> detector
>
> 136      8/02      22:25:43.788      particle (near Earth)      n/a      n/a      n/a
> 137      02      23:00:16.156      particle (near Earth)      n/a      n/a      n/a
> 138 N 04      01:58:55.704      strong,multi-peak,3sGRB      -      3734      TRIGGER
> 139 N 04      09:02:41.958      weak,multi-peak,120sGRB      -      -      RI
> 140 N 04      12:36:17.251      weak,single-peak,0.5sGRB      -      3735      NO
> 141 N 05      00:04:43.498      weak,multi-peak,25sGRB      -      -      NO
> 142 S 05      03:44:14.144      strong,single-peak,0.1sGRB      326      3736      RI
> 143 S 09      23:52:25.672      strong,double-peak,4sGRB      329      3750      DATA GAP
> 144 N 18      01:24:25.640      v.strong,single-peak,10sGRB      330      3765      TRIGGER
> 145      20      00:45:06.928      particle (near Earth)      n/a      n/a      n/a
> 146      20      14:24:17.743      particle (near Earth)      n/a      n/a      n/a
> 147 S 22      03:49:10.530      v.strong,multi-peak,30sGRB      336      3767      TRIGGER
> 148 N 25      04:24:23.399      moderate,multi-peak,120sGRB      -      -      RI
>
```

25 / 9 / 95

ULYSSES RT

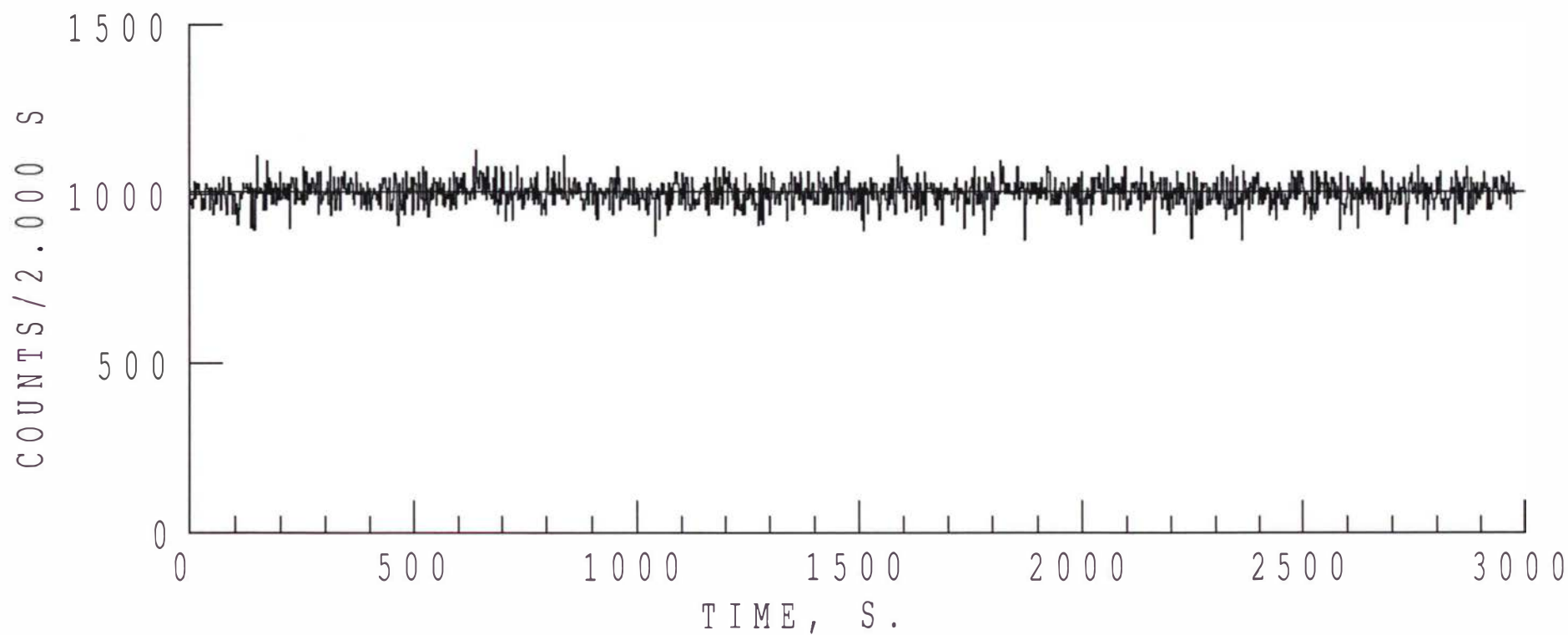
4 / 8 / 95 85140.031 s

0.250 S INTERVALS REGROUPED BY 8

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From DEAL@ssl.msfc.nasa.gov Mon Aug 7 10:19 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Mon, 7 Aug 1995 12:19:19 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3736

BATSEARCH PROGRAM

RI

BATSE BURST # 3736
EVENT OF 1995 AUG 5 DAY OF YEAR=217
EVENT CROSSING TIME AT BATSE : 13454. S. OR 03:44:14.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 80.000 -39.000
BATSE PEAK COUNTING RATE: 115000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 5/ 8/ 95 IS:
RA= 155.706 DEC= 80.528 DIST= 2.282 AU
BATSE-ULYSSES DISTANCE = 341332781. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 53.90 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 670.80 SECS.
CROSSING TIME AT ULYSSES IS 14125. S. OR 03:55:24 +/- 219.91 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 5/ 8/ 95 IS:
RA= 188.156 DEC= -3.283 DIST= 1.881 AU
MARS-BATSE DISTANCE = 281385312. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 78.13 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 193.10 SECS.
CROSSING TIME AT MARS IS 13647. S. OR 03:47:27 +/- 162.40 SECONDS
BATSE BURST TRIGGER

NO.: 3736

TIME: TJD=9934 SECONDS=13454

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=75.3 AZIMUTH=311.0 ERROR=2.7 DEGREES

COMMENTS:

BURST LASTING ~ 0.8 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)
3736	950805	9934	13454	115000	080	-39	.8

Helio corr removed

Date: Oct 30 '97

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

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

2. BATSE Data

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

3. PVO Data

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

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

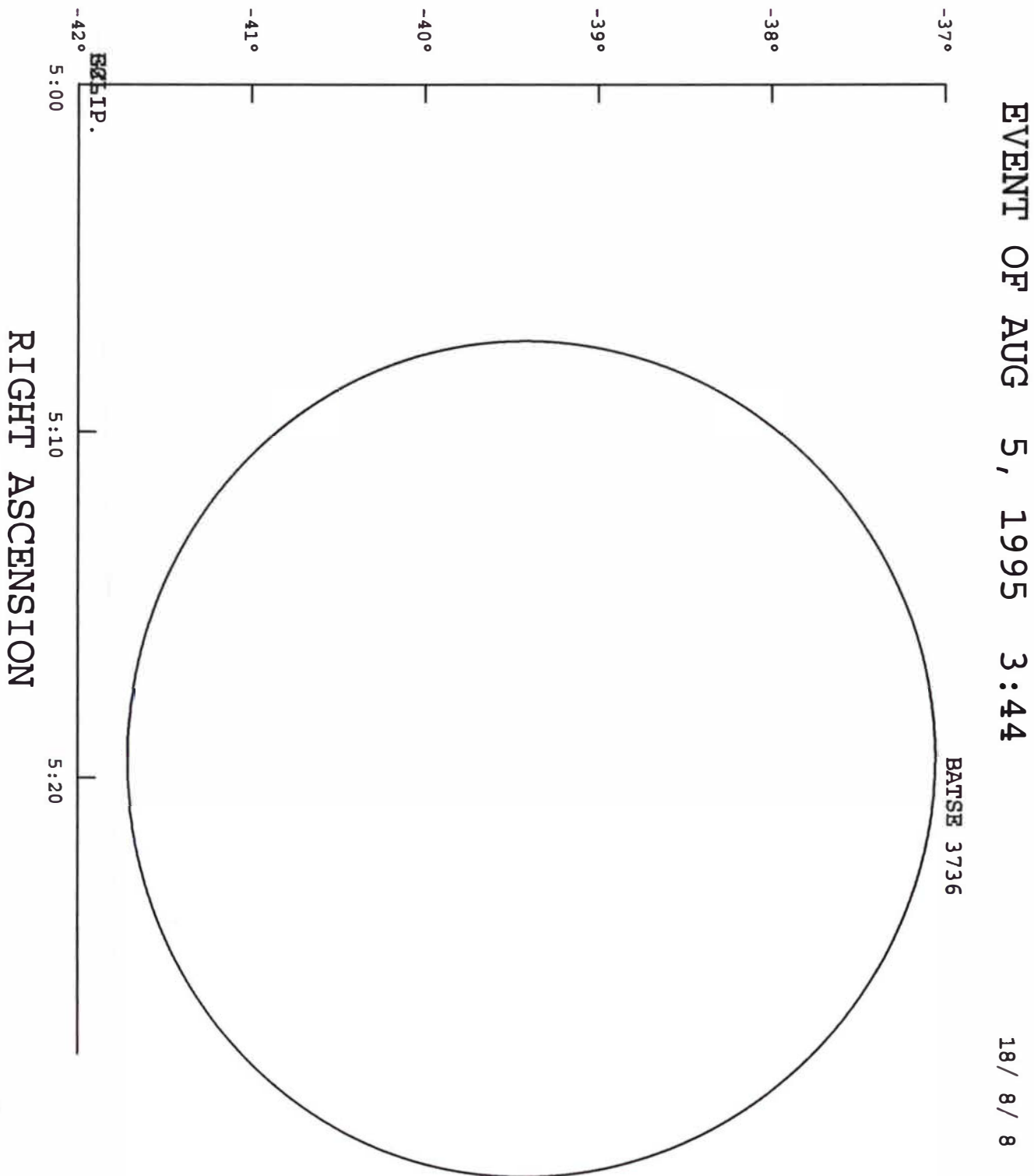
G=GALACTIC EQUATOR

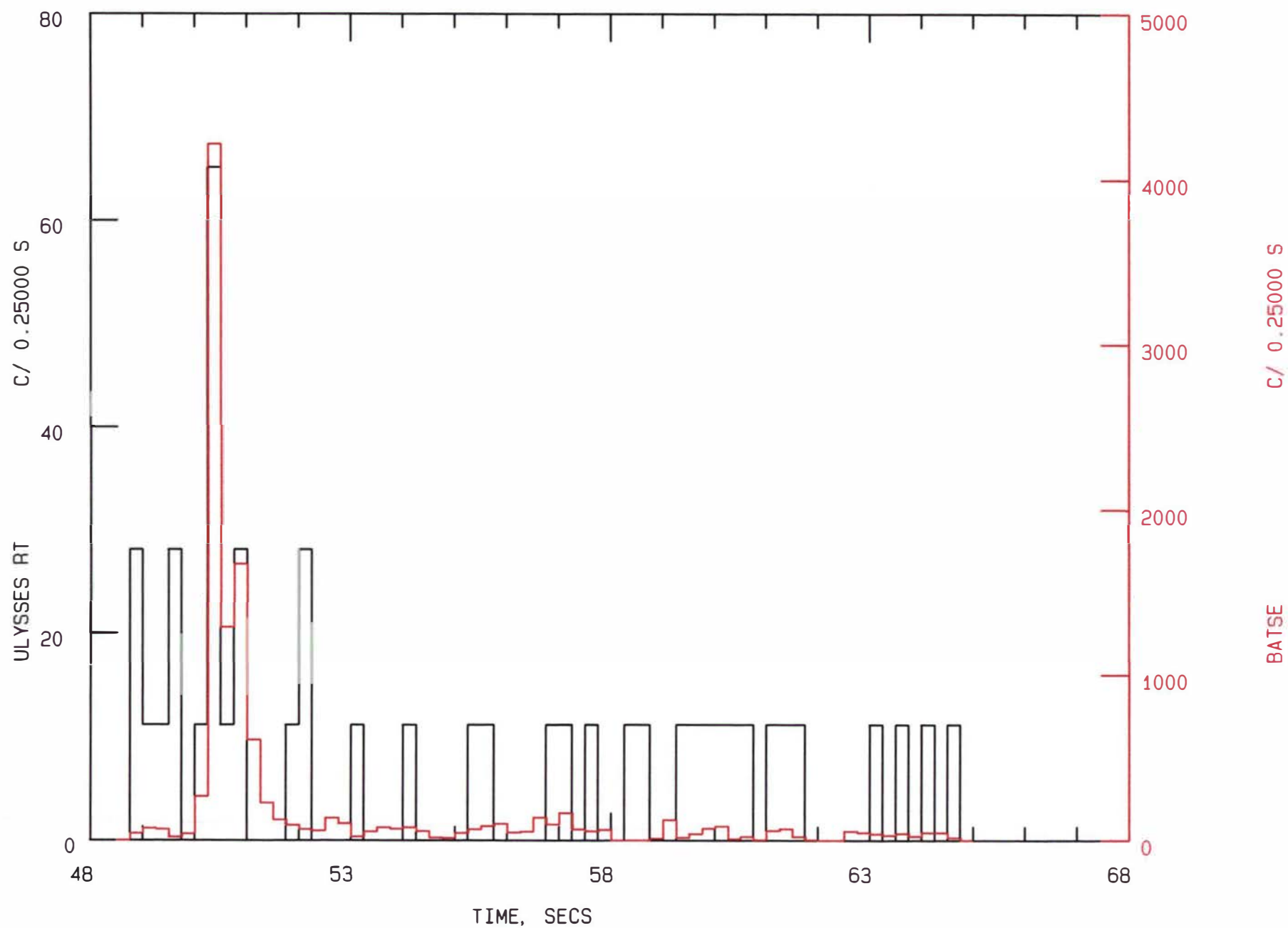
1 BATSE

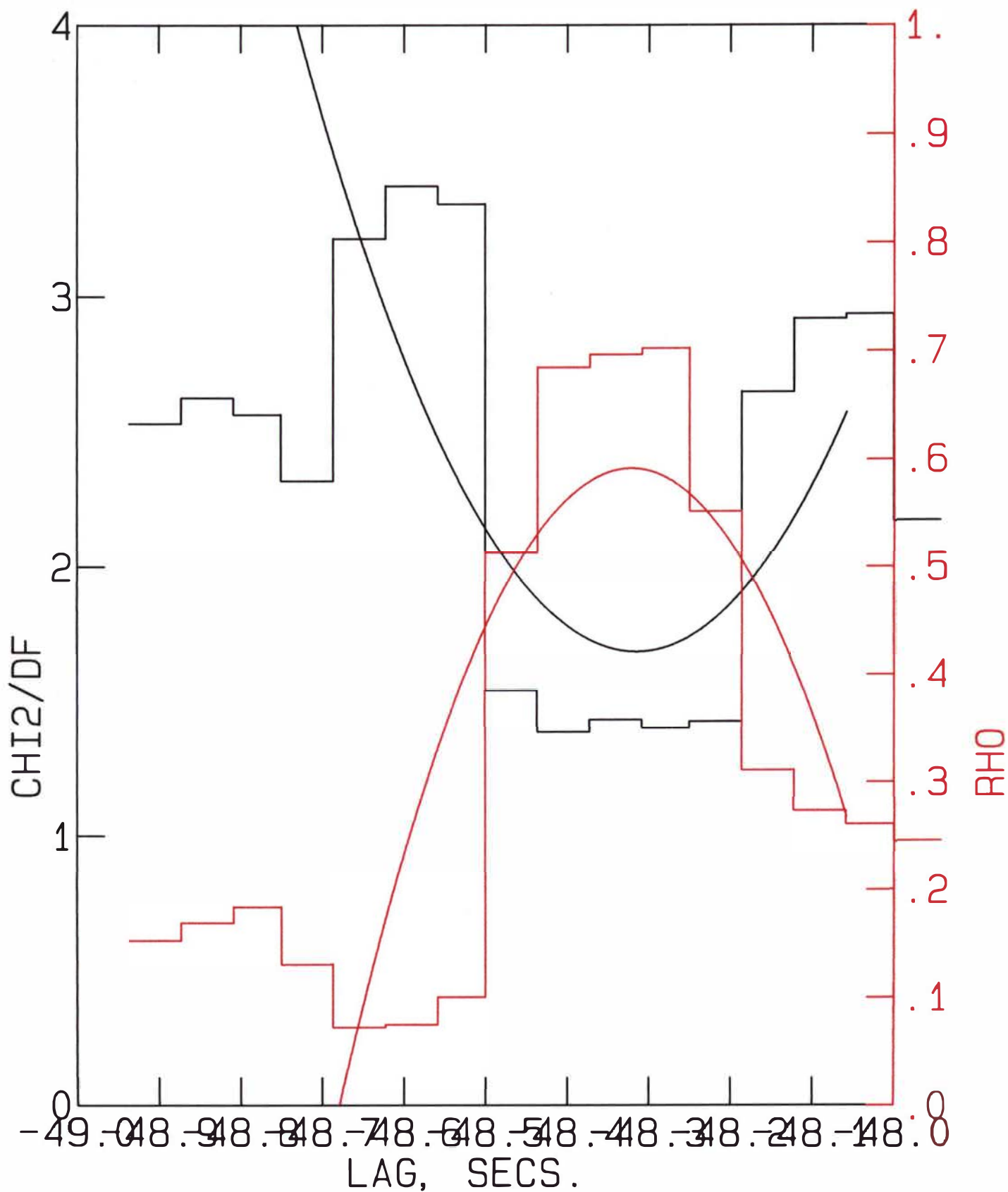
2 ULYSSES

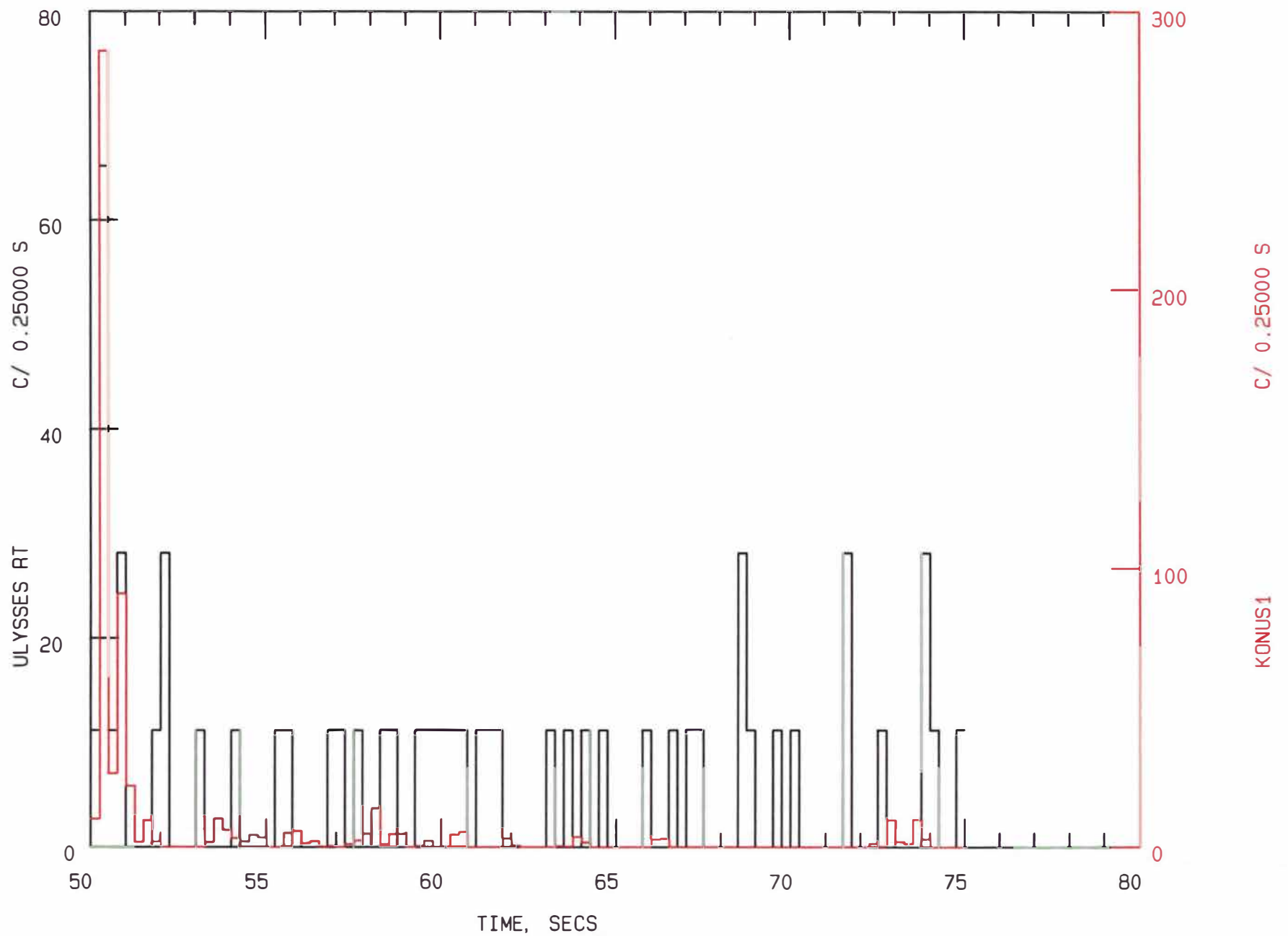
3 KONUS1

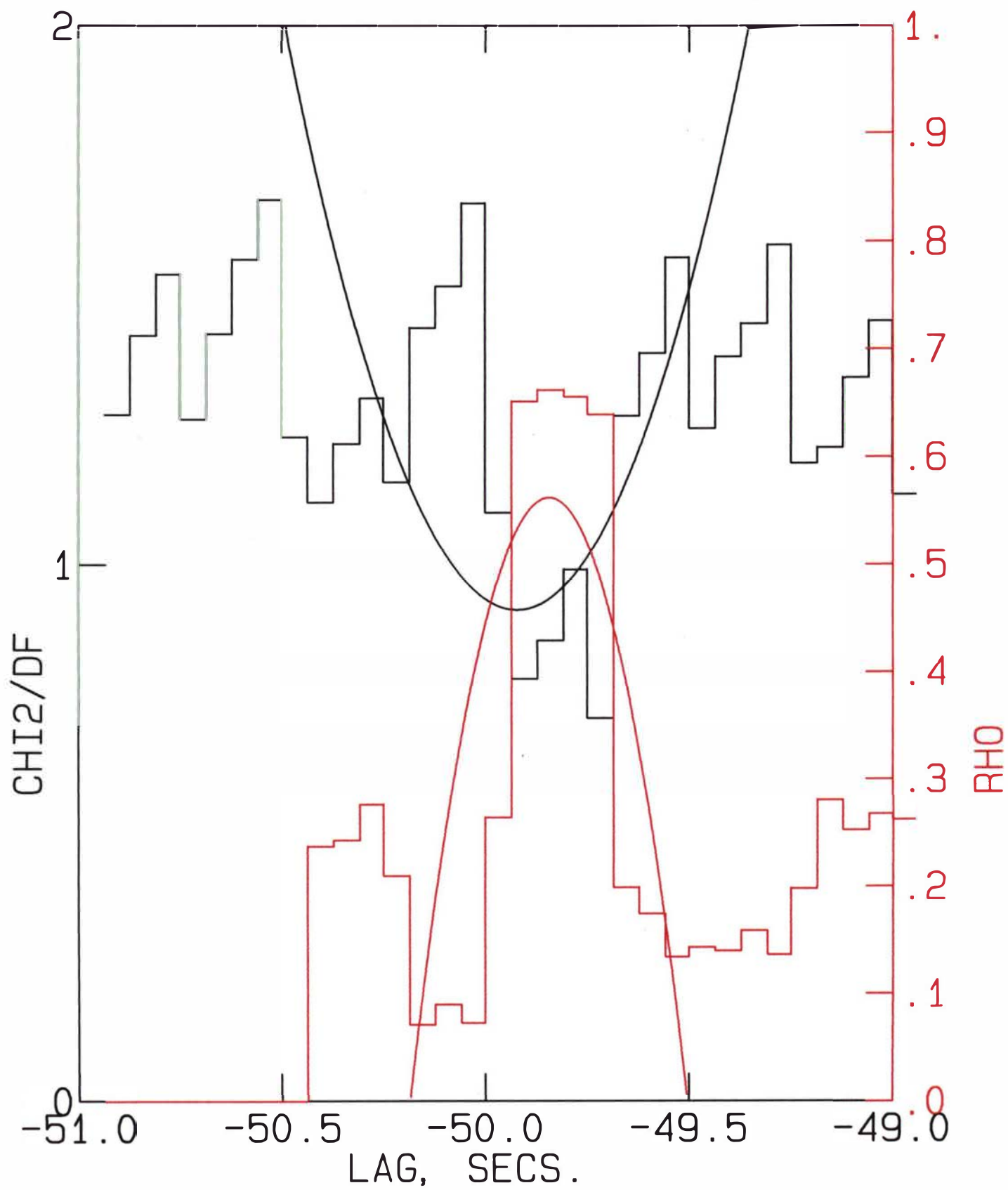
DECLINATION











BATSE

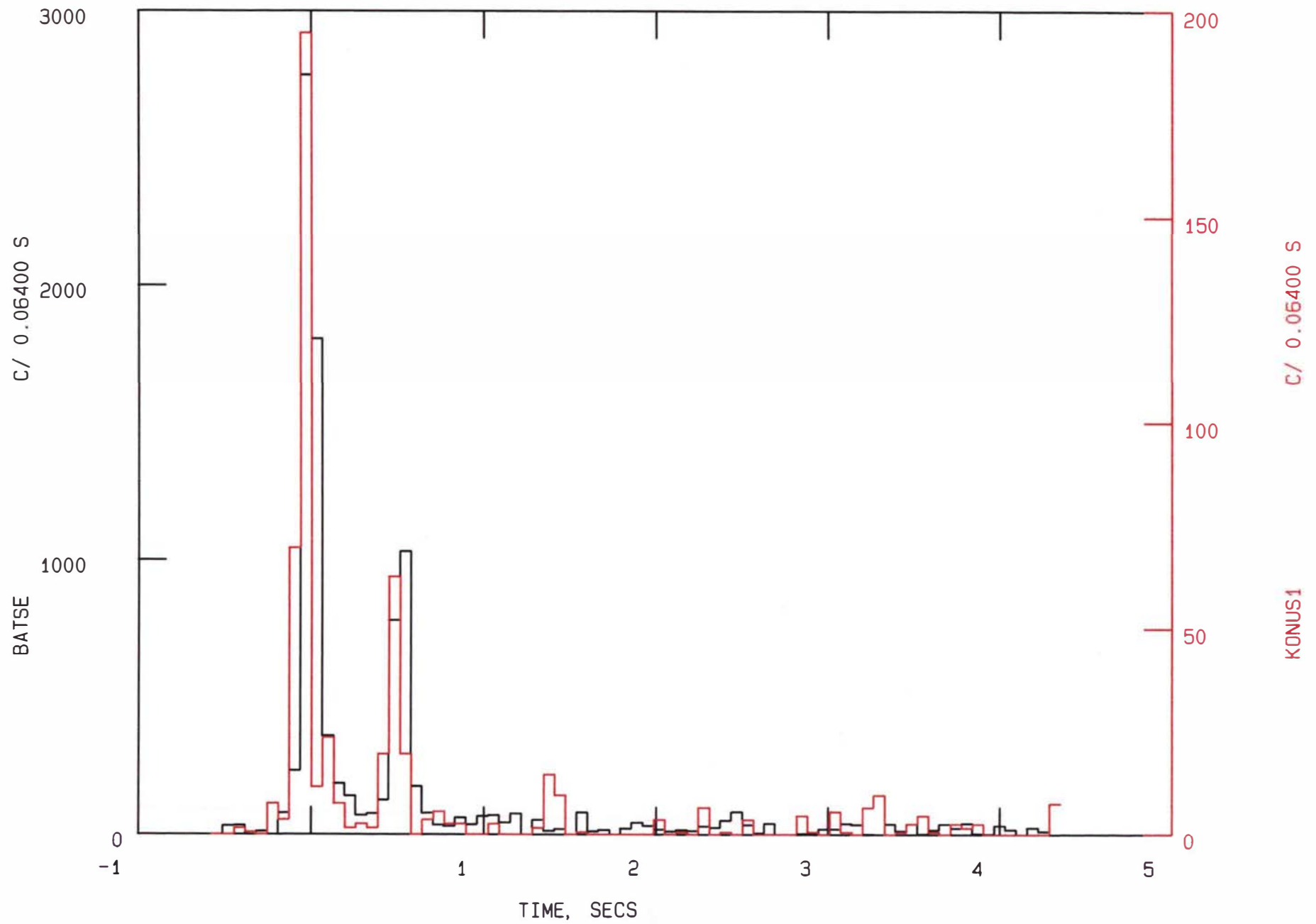
-KONUS1

CORRELATION

5/ 8/95

13454.514

18/ 8/ 8



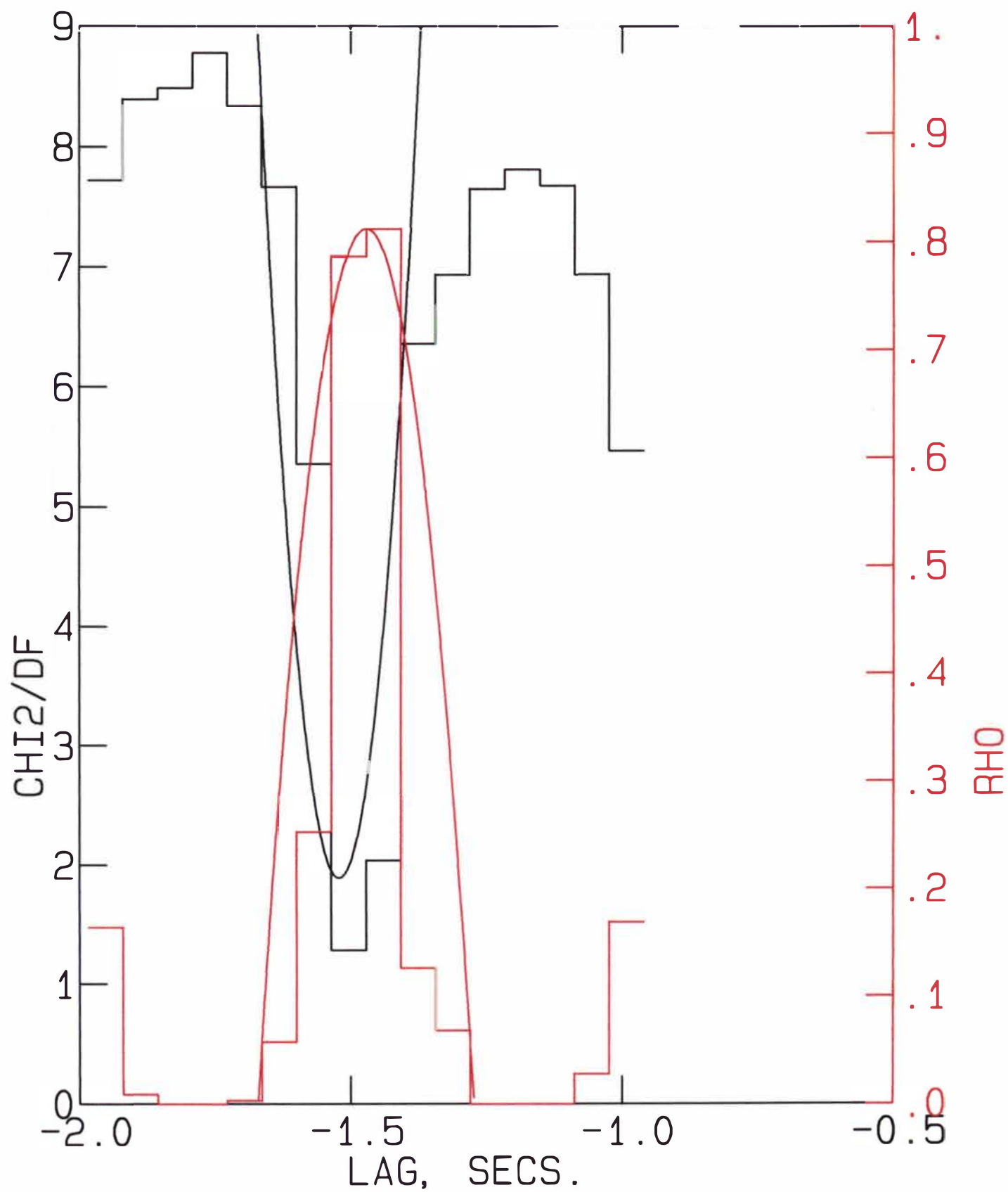
BATSE

-KONUS1

CORRELATION

5/ 8/95

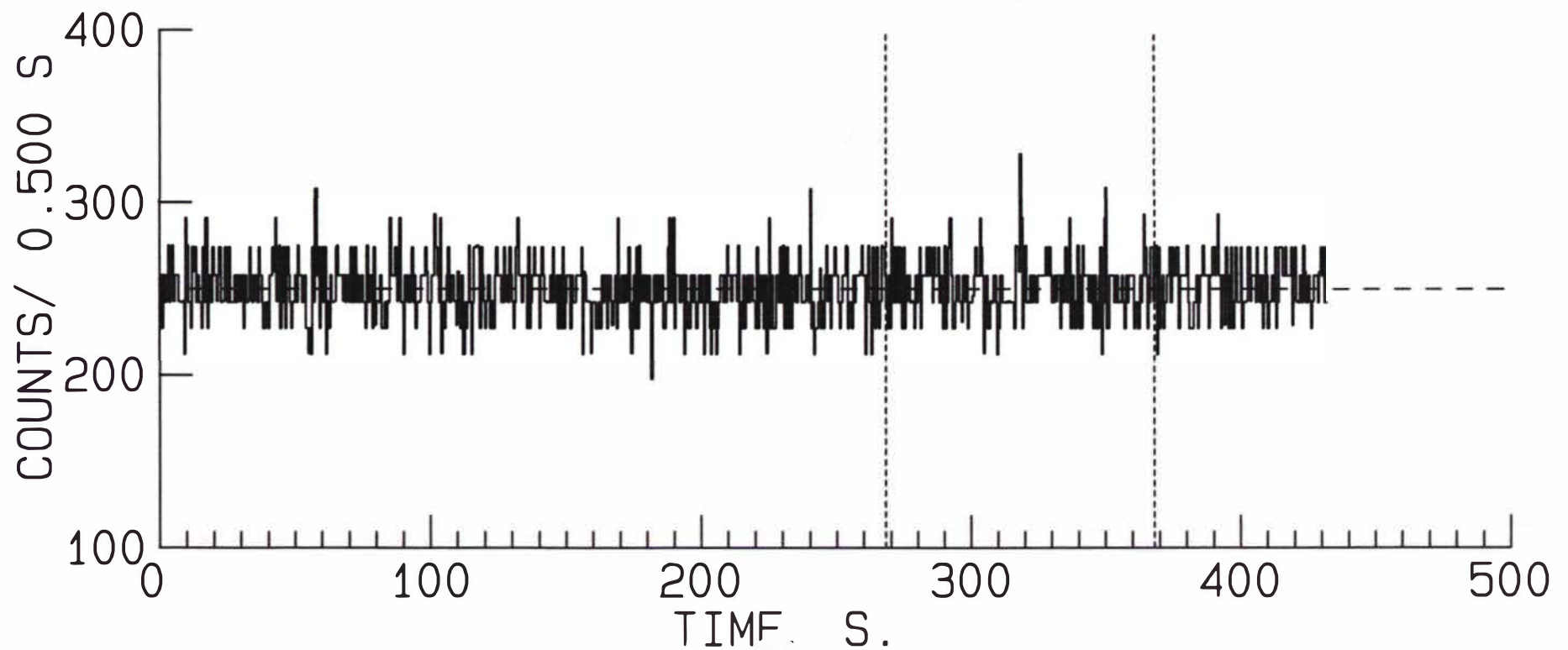
13454.514



ULYSSES RT
5/ 8/95 13896.051 s
0.250 S INTERVALS REGROUPED BY 2
21- 142 keV

18/ 8/ 8

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



KONUS

05/08/95 13454.140

50- 200 keV

COUNTS/0.064 S

100

200

300

0
9
19
29
39
49
59
69
79
89
99
TIME, SECS



N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

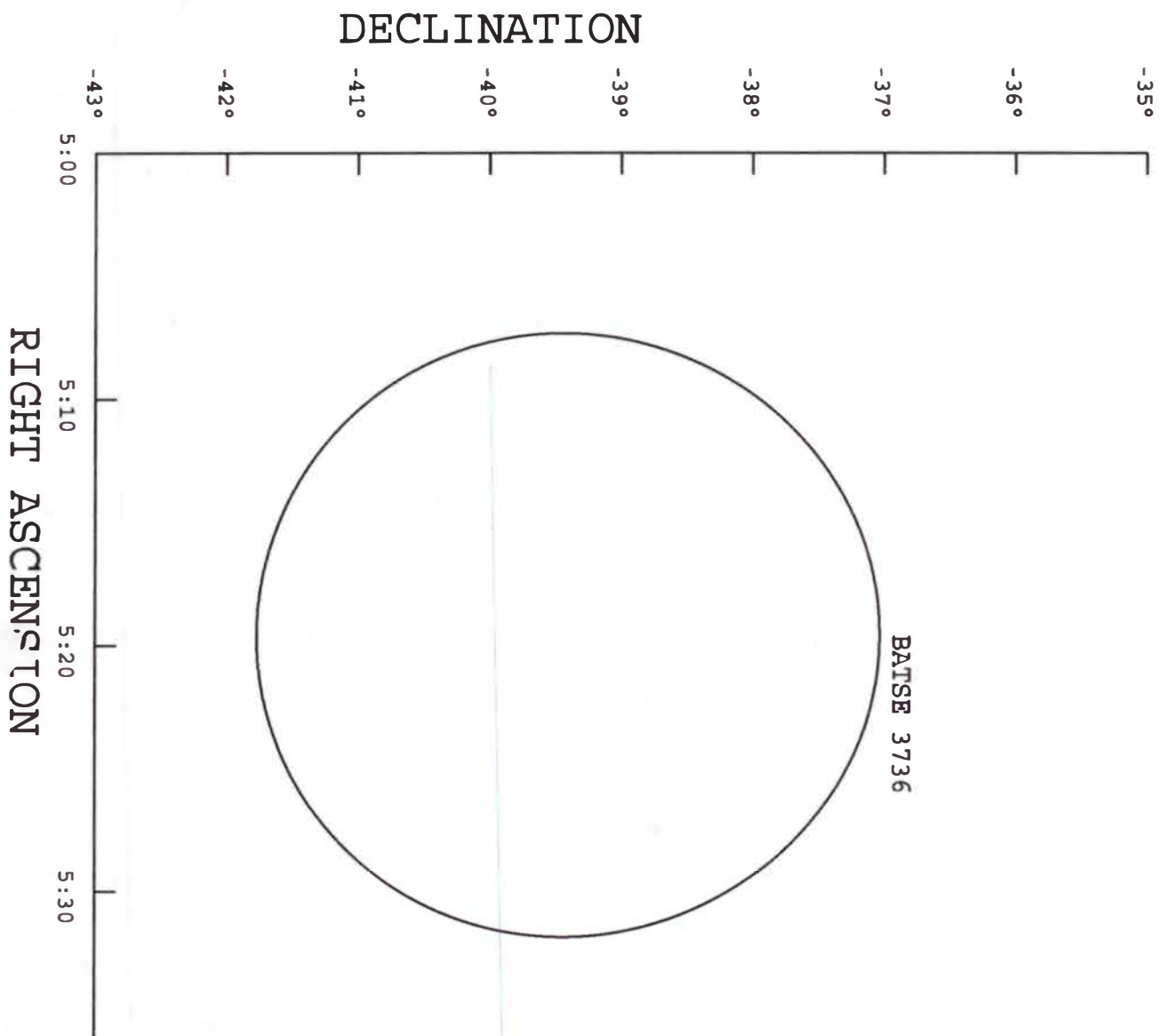
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF AUG 5, 1995 3:56

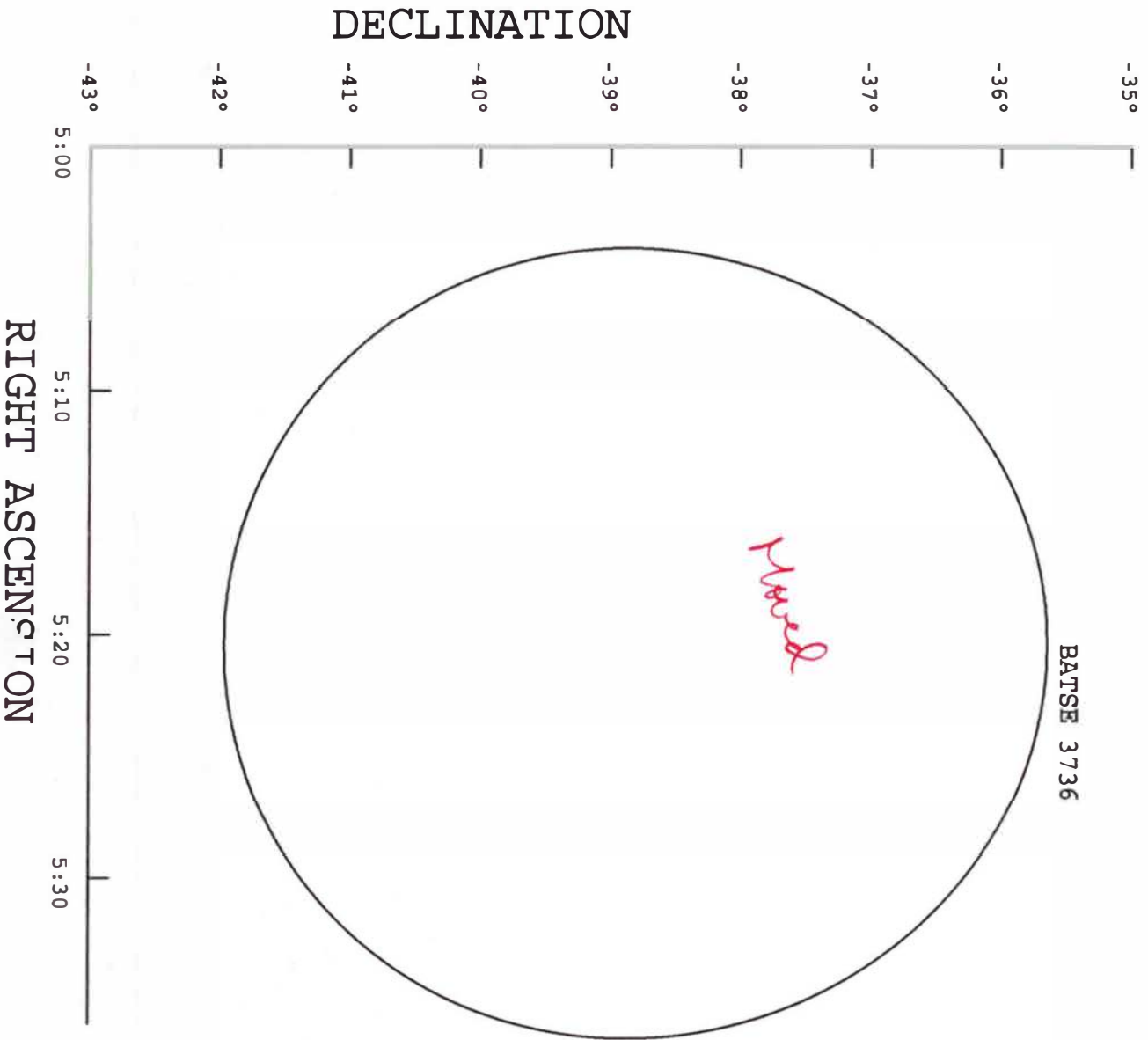
7/ 3/98



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 AUG 5, 1995 3:56

30/10/97



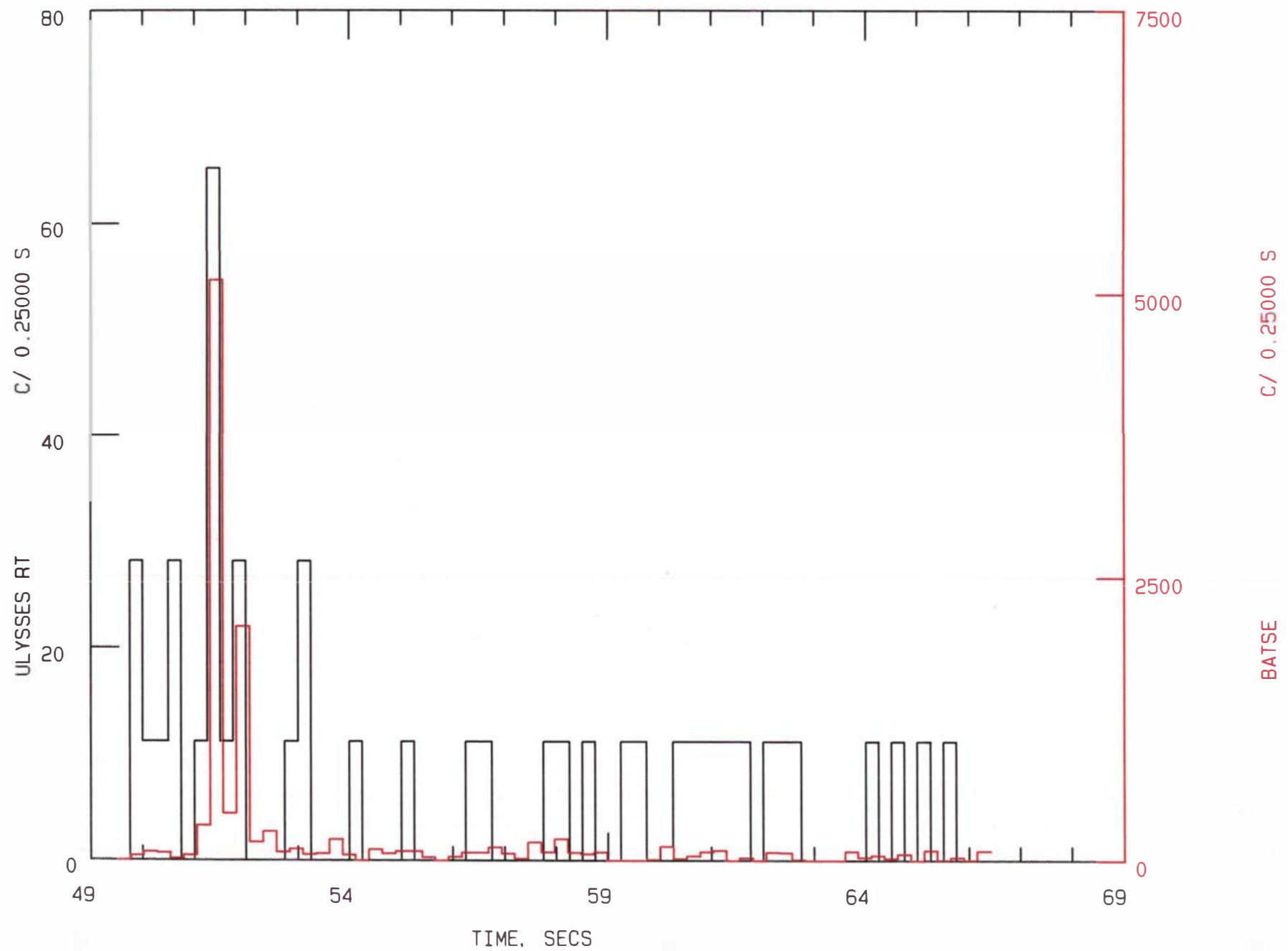
ULYSSES RT-BATSE

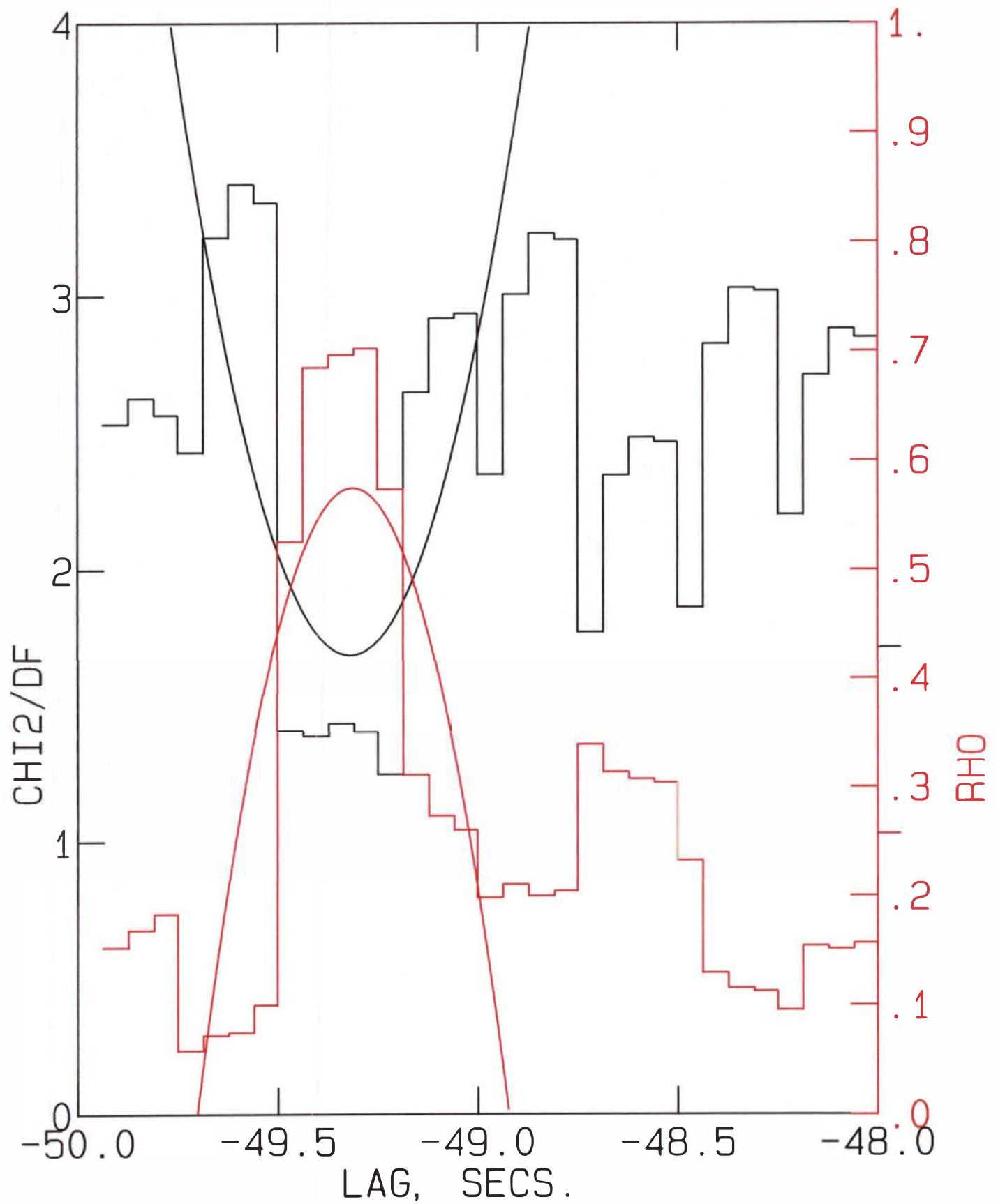
CORRELATION

5/ 8/95

14163.146

30/10/97





ULYSSES RT

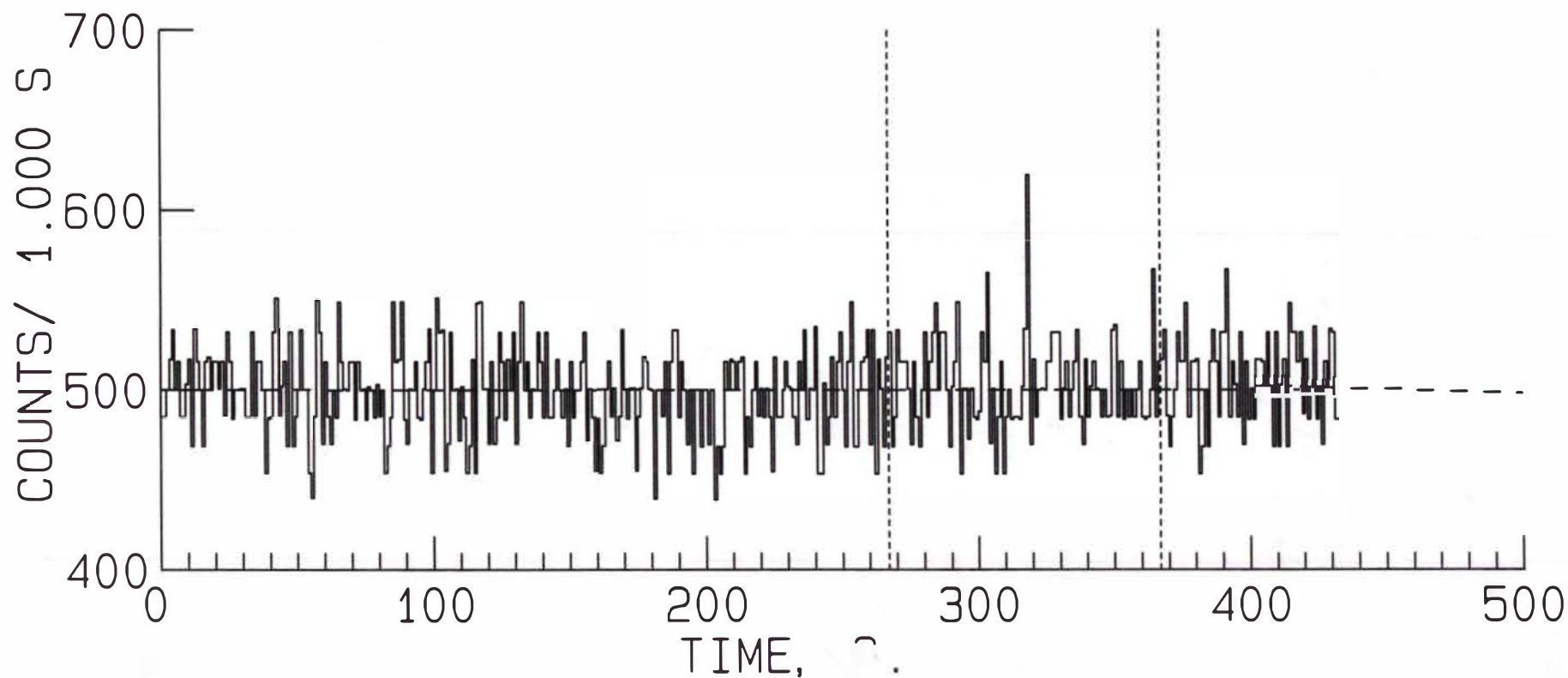
30/10/97

5/ 8/95 13896.051 s

0.250 S INTERVALS REGROUPED BY 4

21- 142 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From khurley@sunspot Fri Aug 18 10:44 PDT 1995
Date: Fri, 18 Aug 1995 09:56:29 -0700
From: khurley@sunspot (Kevin Hurley)
To: scott@xtelab.gsfc.nasa.gov, khurley@sunspot,
butterworth@lheavx.gsfc.nasa.gov
Subject: 3734

Dear Scott & Paul,

I'm sending an updated annulus for this one, based on the BATSE data.
It turns out that since the baco data were truncated, the old annulus
was off a bit from the new one, although I think the two are touching.

I'm having some problems with 3736. I have the BATSE data now, but
neither it nor the baco data show two peaks separated by about 30 s, which
is what I have on Ulysses. I'll ponder this one for a while. Perhaps
BATSE saw only the second peak because the first occurred while the source
was earth occulted?

Kevin

From khurley@sunspot Tue Sep 26 08:37 PDT 1995
Date: Tue, 26 Sep 1995 08:24:27 -0700
From: khurley@sunspot (Kevin Hurley)
To: butterworth@lheavx.gsfc.nasa.gov, khurley@sunspot
Subject: Konus triggers in August

Dear Paul,

Here's the completed list. The data gap on the 9th is likely to be filled when we get our final data CD in a month or so.

Kevin

```
> -----
> Konus Triggers
> -----
>
> KONUS#      Date      Time      Event      T#      B#      U#
> detector
>
> 136      8/02      22:25:43.788      particle (near Earth)      n/a      n/a      n/a
> 137      02      23:00:16.156      particle (near Earth)      n/a      n/a      n/a
> 138 N 04      01:58:55.704      strong,multi-peak,3sGRB      -      3734      TRIGGER
> 139 N 04      09:02:41.958      weak,multi-peak,120sGRB      -      -      RI
> 140 N 04      12:36:17.251      weak,single-peak,0.5sGRB      -      3735      NO
> 141 N 05      00:04:43.498      weak,multi-peak,25sGRB      -      -      NO
> 142 S 05      03:44:14.144      strong,single-peak,0.1sGRB      326      3736      RI
> 143 S 09      23:52:25.672      strong,double-peak,4sGRB      329      3750      DATA GAP
> 144 N 18      01:24:25.640      v.strong,single-peak,10sGRB      330      3765      TRIGGER
>      45      20      00:45:06.928      particle (near Earth)      n/a      n/a      n/a
> 146      20      14:24:17.743      particle (near Earth)      n/a      n/a      n/a
> 147 S 22      03:49:10.530      v.strong,multi-peak,30sGRB      336      3767      TRIGGER
> 148 N 25      04:24:23.399      moderate,multi-peak,120sGRB      -      -      RI
>
```

BATSE

05/08/95

13454.514

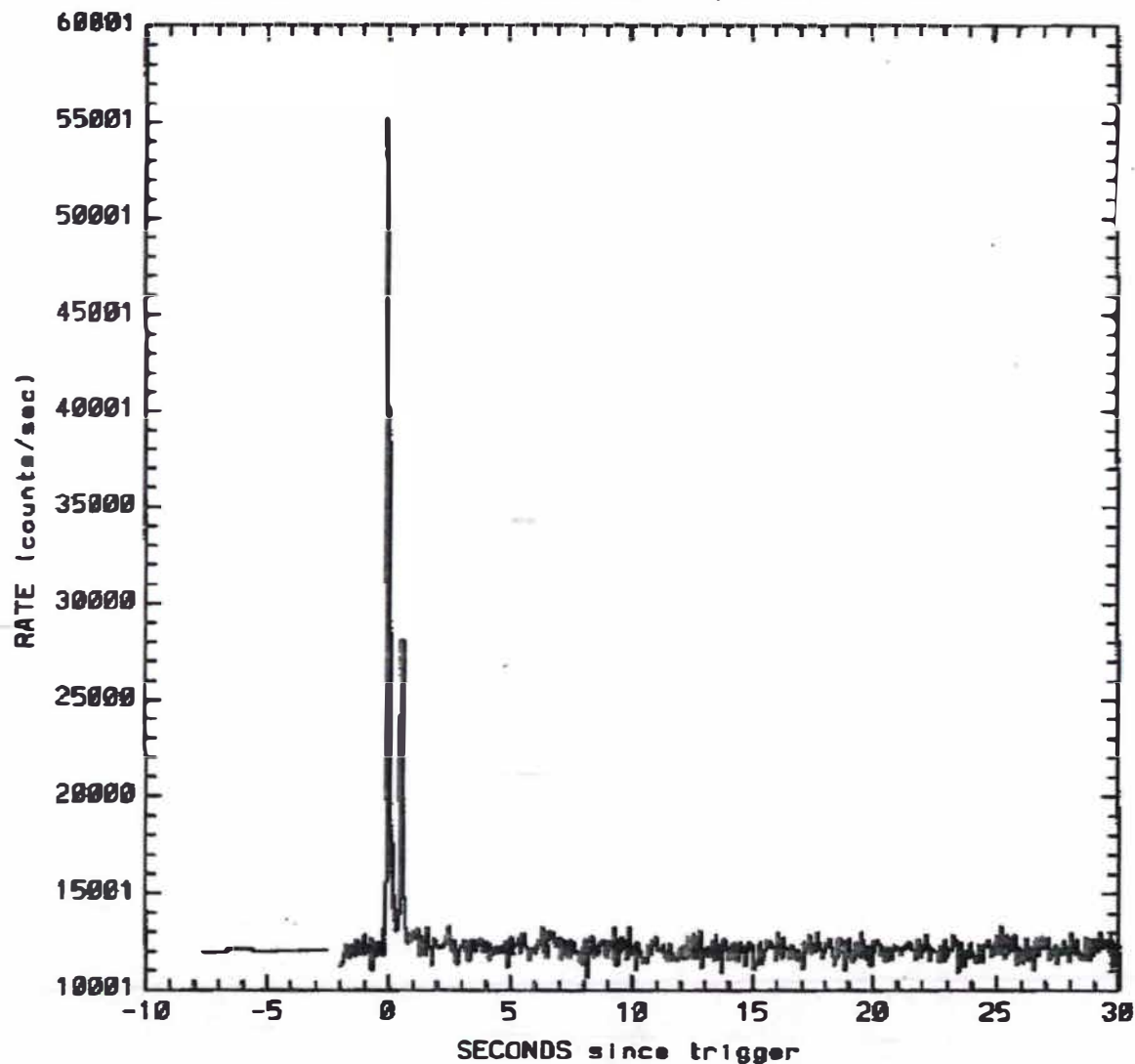
25- 100 keV

COUNTS/ .064 S



16 / 8 / 95

DISCSC Data for K. Hurley, No. 3736



16-AUG-1995 09:49.47

Created by MDPS BD
(Burst Display)
Version 12.25

Trigger # . 3736

Trigger Time:
9934 / 13454.514Burst Data Type:
DISCSCDeadtime
Corrected: NBackground Data
Type: PREB + DISCLAMinimum Integ. Time:
0.064 secondsDetectors (7..8).
-6-432--Discriminators:
(1 . 2)Quality Mask:
BDISP1

From DEAL@SSLLES.MSFC.NASA.GOV Mon Aug 7 10:21 PDT 1995
Date: Mon, 7 Aug 1995 12:20:56 -0500 (CDT)
From: DEAL@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3737

BATSEARCH PROGRAM

BATSE BURST # 3737
EVENT OF 1995 AUG 5 DAY OF YEAR=217
EVENT CROSSING TIME AT BATSE : 37470. S. OR 10:24:30.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 319.000 54.000
BATSE PEAK COUNTING RATE: 13000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 5/ 8/ 95 IS:
RA= 156.402 DEC= 80.414 DIST= 2.284 AU
BATSE-ULYSSES DISTANCE = 341665737. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=134.77 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -802.69 SECS.
CROSSING TIME AT ULYSSES IS 36667. S. OR 10:11:07 +/- 178.27 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 5/ 8/ 95 IS:
RA= 188.156 DEC= -3.283 DIST= 1.881 AU
MARS-BATSE DISTANCE = 281385312. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 64.53 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 403.70 SECS.
CROSSING TIME AT MARS IS 37874. S. OR 10:31:13 +/- 153.24 SECONDS

BATSE BURST TRIGGER

NO.: 3737

TIME: TJD=9934 SECONDS=37470

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=63.1 AZIMUTH=124.9 ERROR=8.2 DEGREES

COMMENTS:

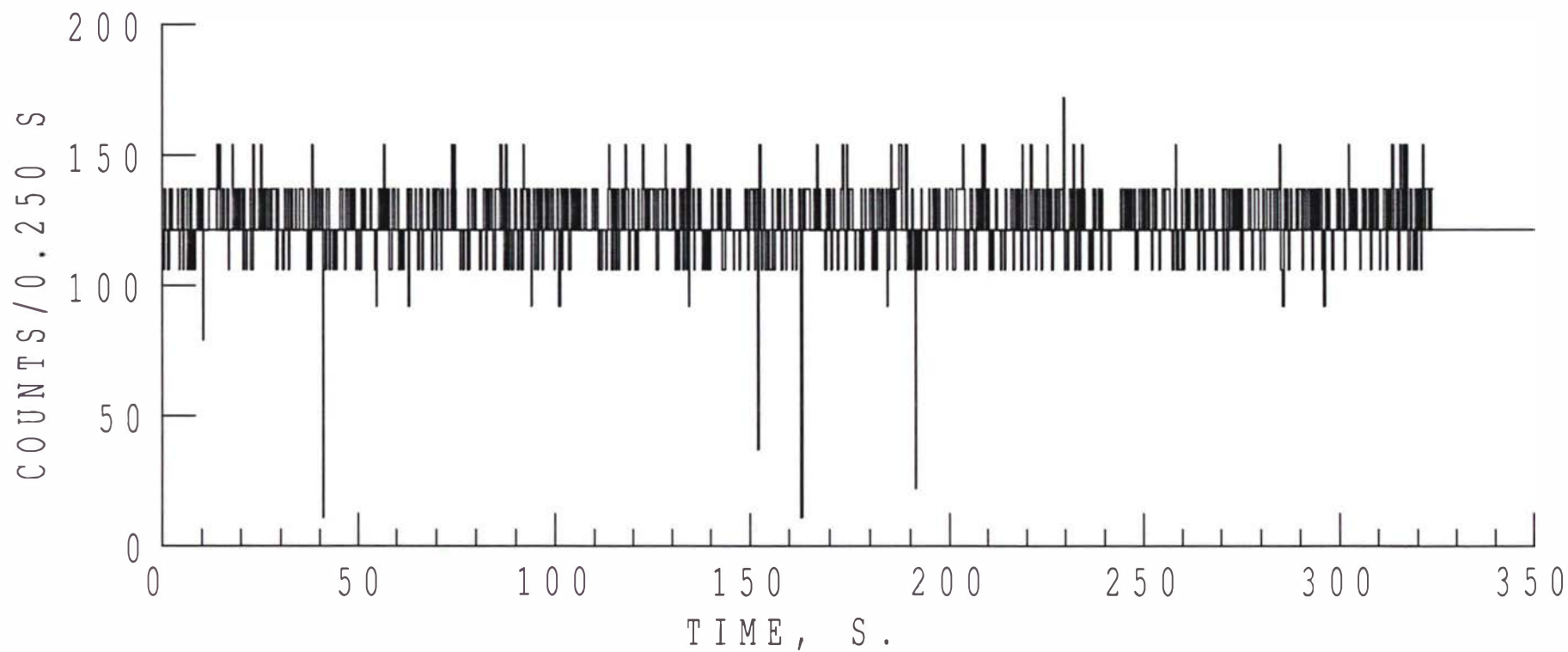
BURST LASTING ~ 0.3 S. VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3737	950805	9934	37470	13000	319	+54	.3

7 / 8 / 95

ULYSSES RT
5 / 8 / 95 36504.191 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



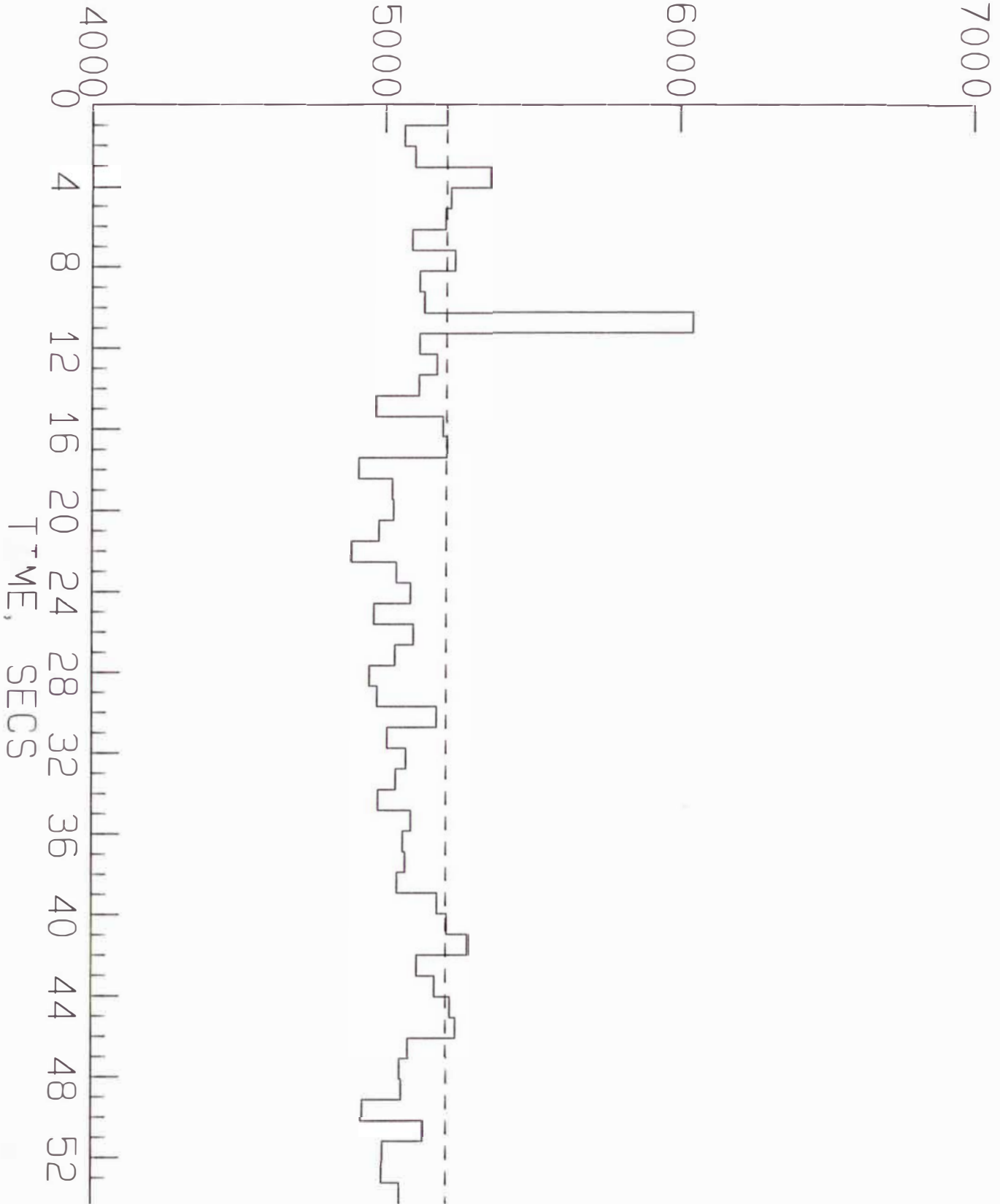
BACODINE

05/08/95

37460.657

25- 100 keV

COUNTS/1.024 S



From DEAL@SSLLES.MSFC.NASA.GOV Mon Aug 7 10:08 PDT 1995
Date: Mon, 7 Aug 1995 12:08:35 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3738

TIME: TJD=9934 SECONDS=79381

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=65.4 AZIMUTH=145.5 ERROR=14.5 DEGREES

COMMENTS:

CYG X-1 LASTING ~ 45 S. NOT VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

From DEAL@SSLLES.MSFC.NASA.GOV Mon Aug 7 10:11 PDT 1995
Date: Mon, 7 Aug 1995 12:11:24 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3739

TIME: TJD=9934 SECONDS=83327

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

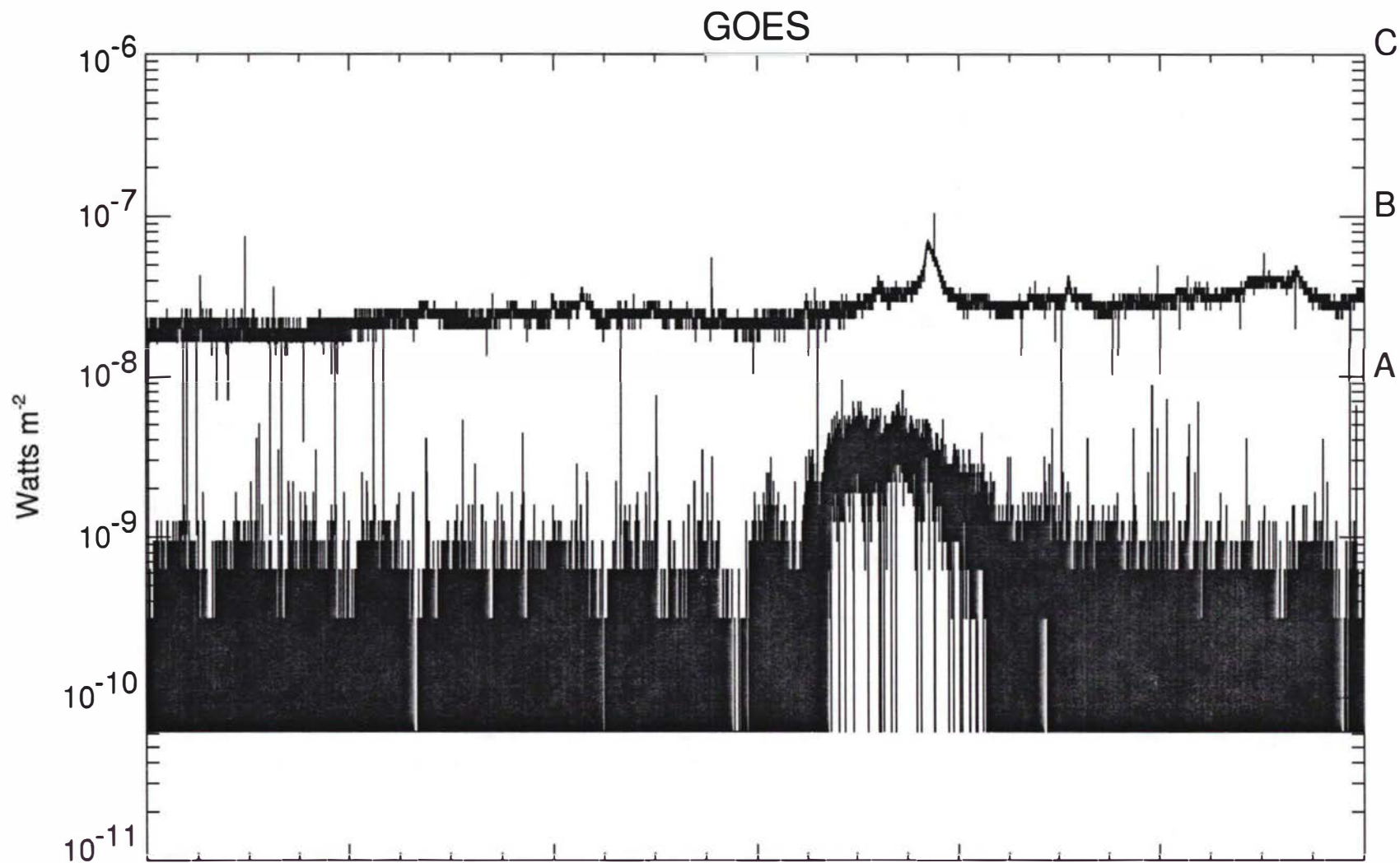
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=66.4 AZIMUTH=137.3 ERROR=15.6 DEGREES

COMMENTS:

CYG X-1 LASTING ~ 10 S. NOT VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.



Data Start: 95/08/05, 0000:01

Plot created: 95/08/07, 0528

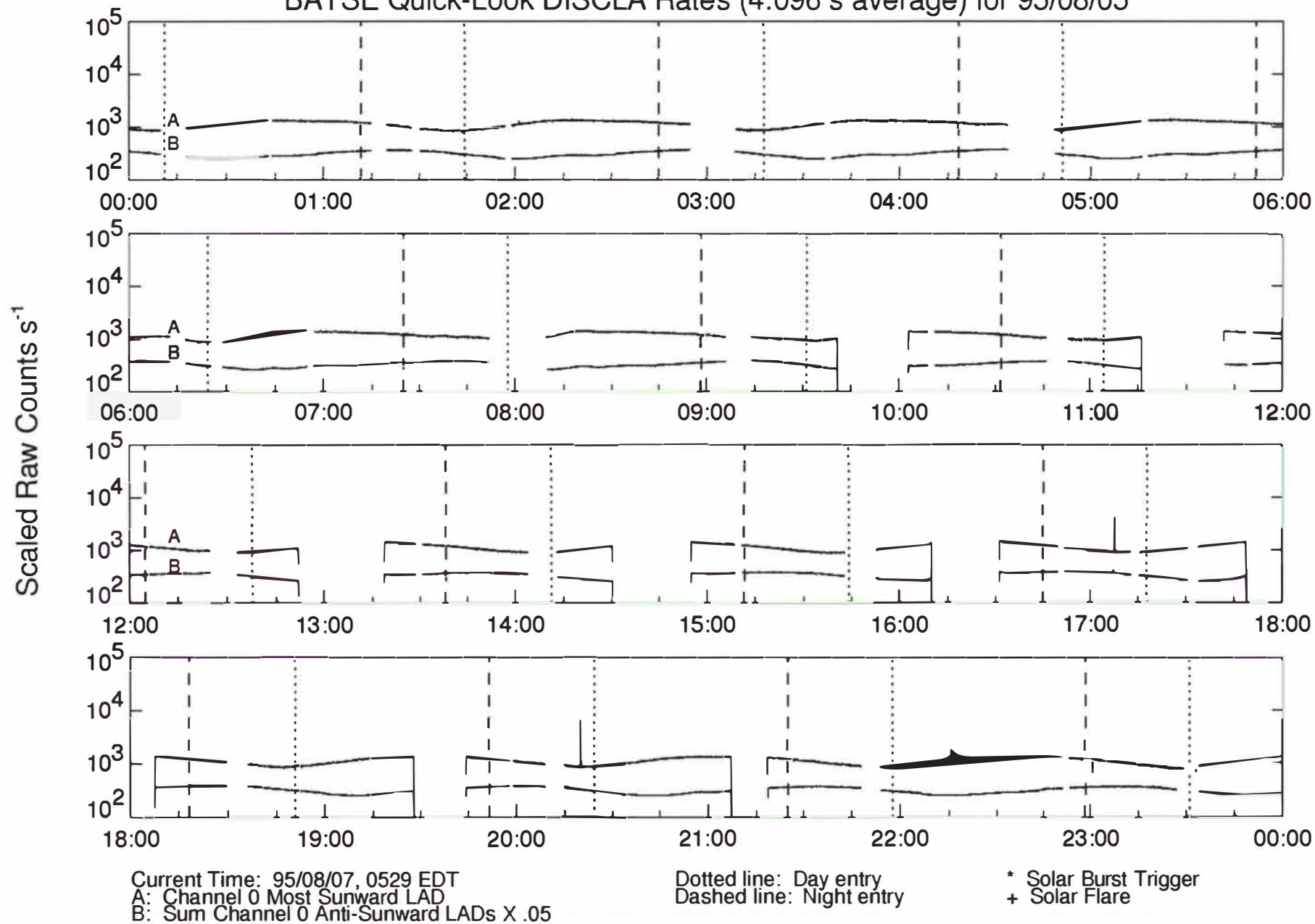
Channel 1 (1.0 - 8.0 Angstroms)

Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms)

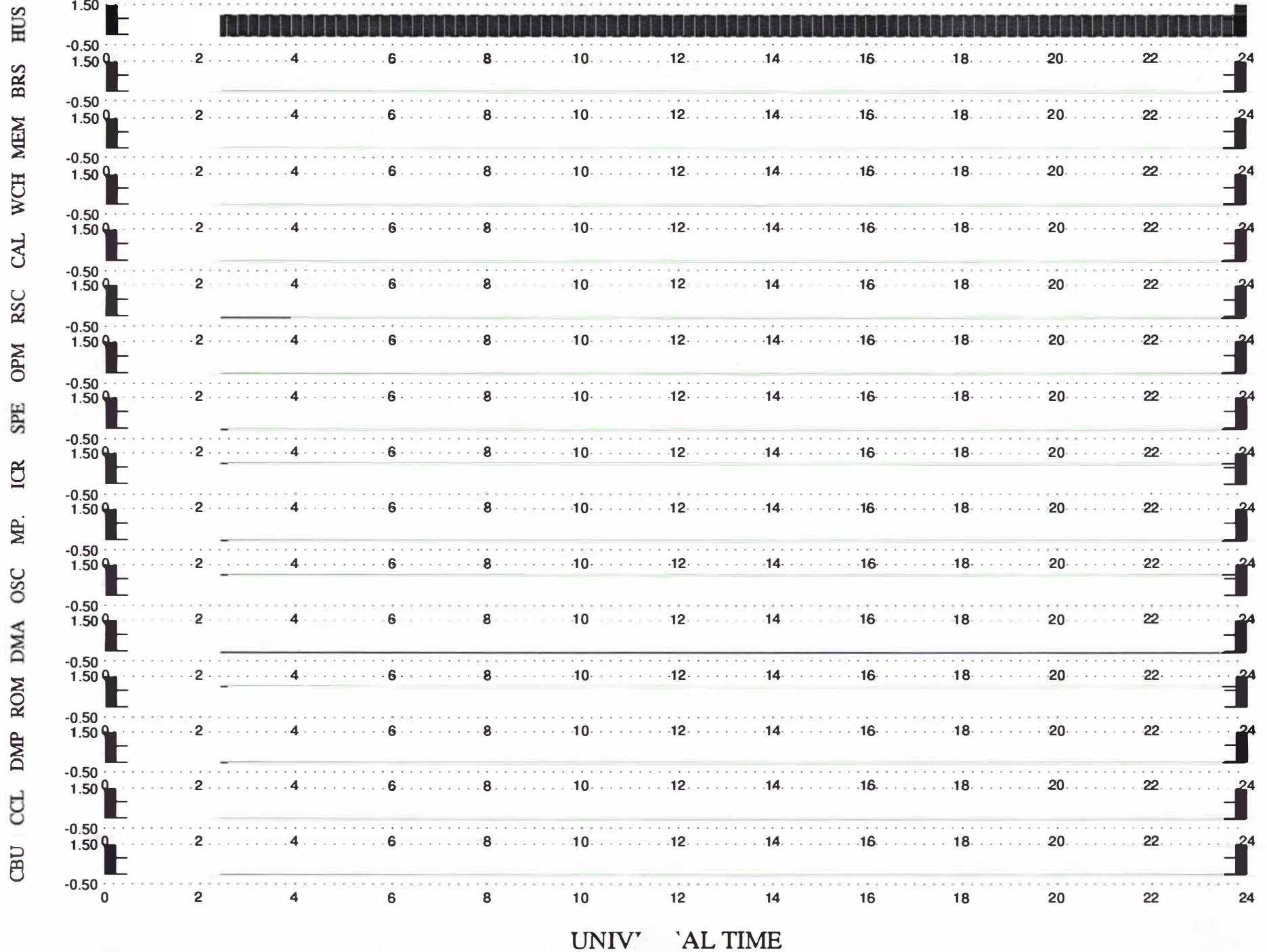
Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/05



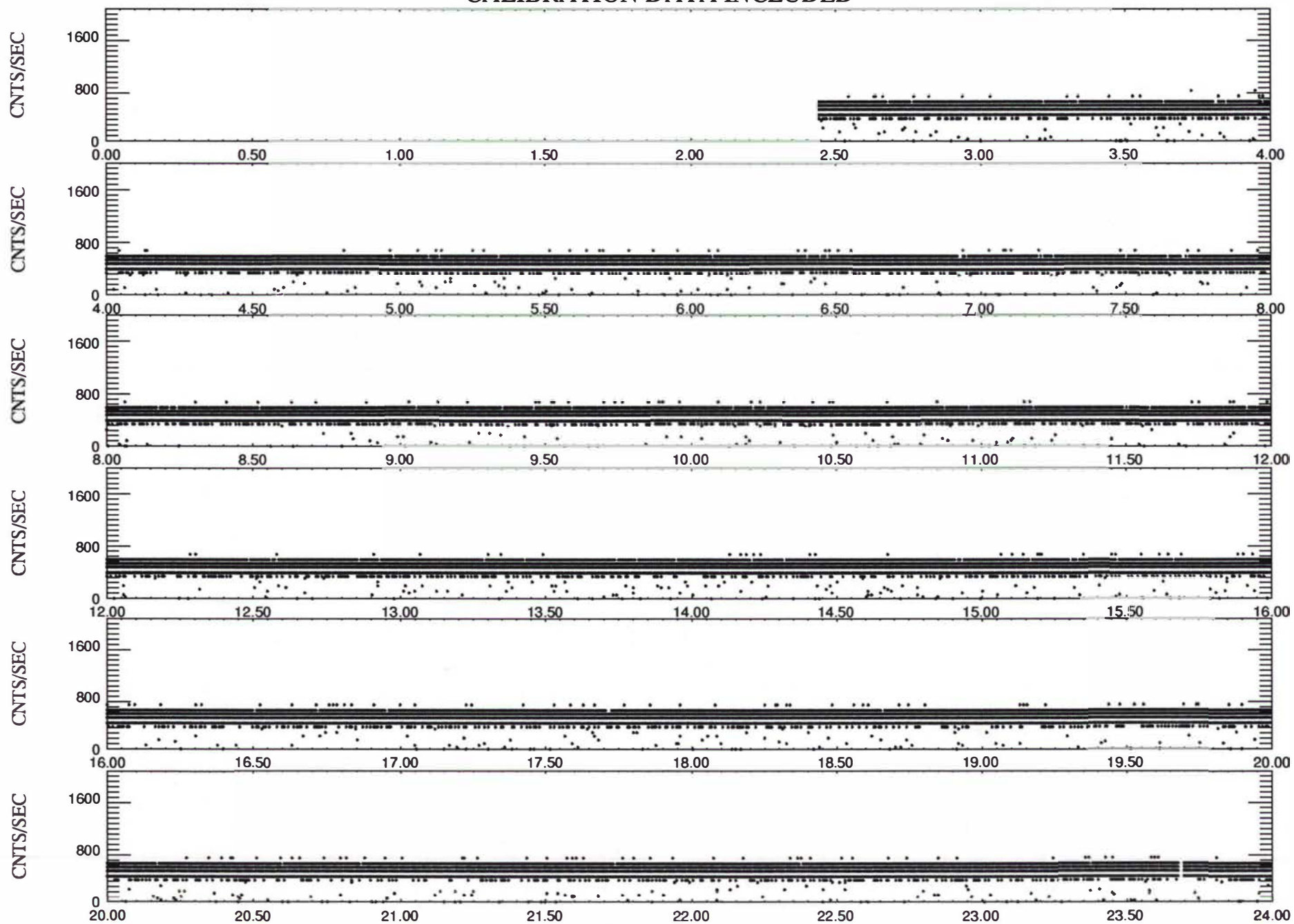
HUS MODES EDR day 217, year 1995 to day 217, year 1995
NO BURST (8)

1/25/96

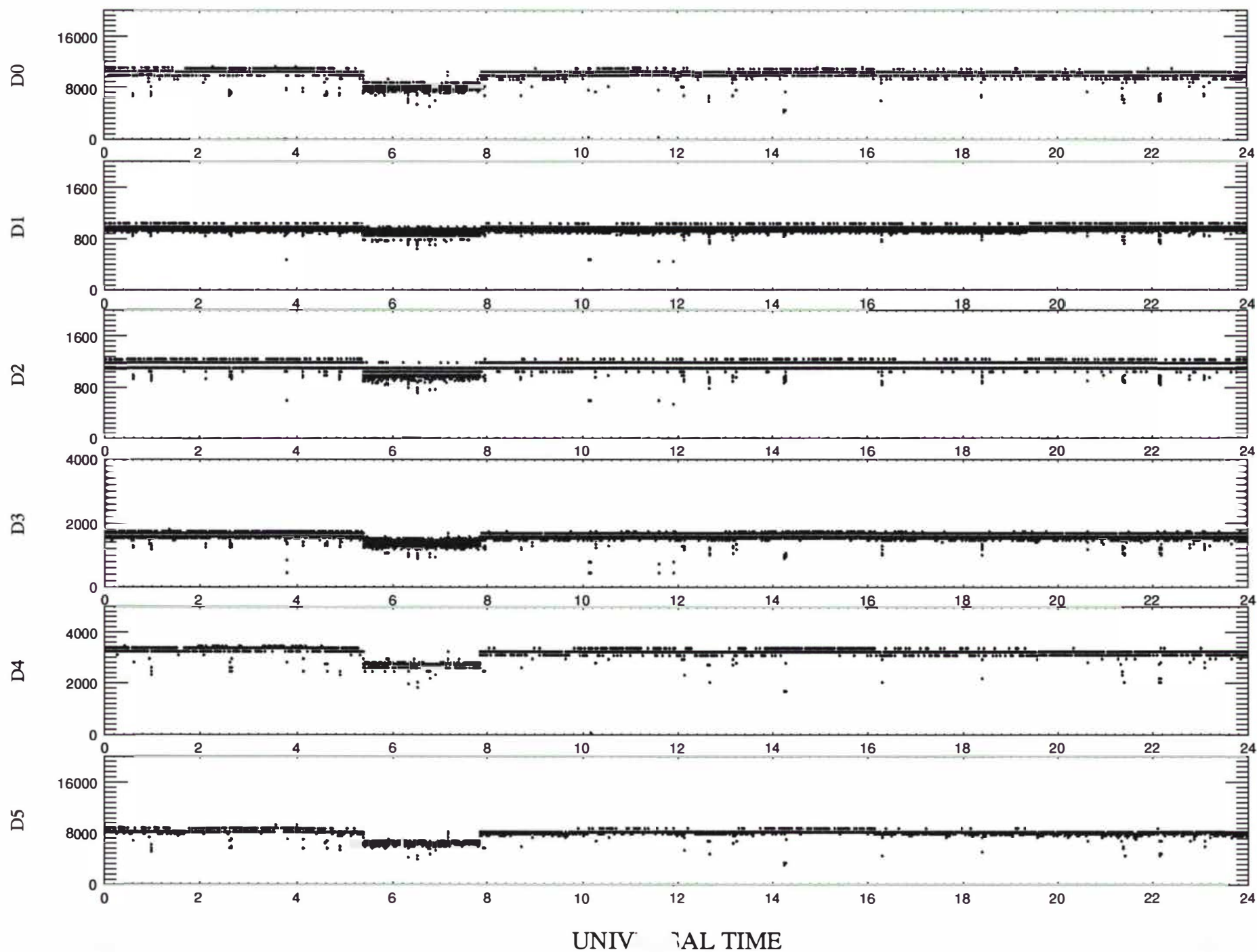


HUS 2A, MODE 1, NOT AVERAGED EDR day 217, year 1995 to day 217, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From SAHI@ssl.msfc.nasa.gov Tue Aug 8 11:45 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Tue, 8 Aug 1995 13:45:05 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3740

BATSEARCH PROGRAM

NO

BATSE BURST # 3740
EVENT OF 1995 AUG 6 DAY OF YEAR=218
EVENT CROSSING TIME AT BATSE : 848. S. OR 00:14:08.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 273.000 -31.000
BATSE PEAK COUNTING RATE: 2500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 6/ 8/ 95 IS:
RA= 157.834 DEC= 80.180 DIST= 2.288 AU
BATSE-ULYSSES DISTANCE = 342351692 KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 55.27 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 650.53 SECS.
CROSSING TIME AT ULYSSES IS 1499. S. OR 00:24:58 +/- 222.83 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 6/ 8/ 95 IS:
RA= 188.716 DEC= -3.537 DIST= 1.887 AU
MARS-BATSE DISTANCE = 282253536. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 96.72 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -110.13 SECS.
CROSSING TIME AT MARS IS 738. S. OR 00:12:17 +/- 160.66 SECONDS

BATSE BURST TRIGGER

NO.: 3740

TIME: TJD=9935 SECONDS=848

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=114.5 AZIMUTH=206.7 ERROR=4.3 DEGREES

COMMENTS:

BURST. MULTI-PEAKED, DUR.~100 SECS. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3740	950806	9935	00848	2500	273	-31	100

8 / 8 / 95

ULYSSES RT

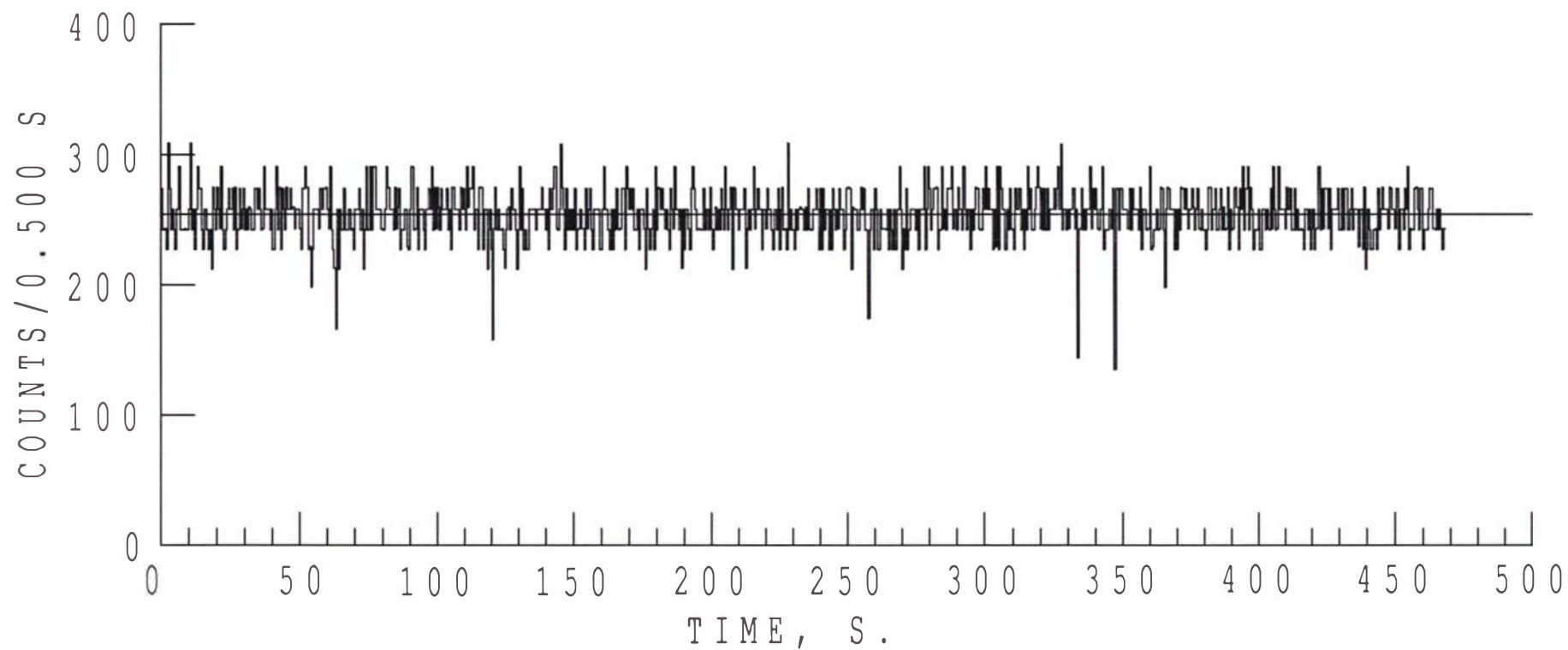
6 / 8 / 95 1260.090 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From SAHI@ssl.msfc.nasa.gov Tue Aug 8 11:31 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Tue, 8 Aug 1995 13:30:31 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3741

TIME: TJD=9935 SECONDS=13043

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION.

From SAHI@ssl.msfc.nasa.gov Tue Aug 8 11:47 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Tue, 8 Aug 1995 13:46:57 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3742

BATSEARCH PROGRAM

BATSE BURST # 3742
EVENT OF 1995 AUG 6 DAY OF YEAR=218
EVENT CROSSING TIME AT BATSE : 72548. S. OR 20:09:08.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 166.000 36.000
BATSE PEAK COUNTING RATE: 3100 C/S

NO

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 6/ 8/ 95 IS:
RA= 159.739 DEC= 79.833 DIST= 2.295 AU
BATSE-ULYSSES DISTANCE = 343351379. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=136.10 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -825.19 SECS.
CROSSING TIME AT ULYSSES IS 71723. S. OR 19:55:22 +/- 175.36 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 6/ 8/ 95 IS:
RA= 188.716 DEC= -3.537 DIST= 1.887 AU
MARS-BATSE DISTANCE = 282253536. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=135.12 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -667.13 SECS.
CROSSING TIME AT MARS IS 71881. S. OR 19:58:00 +/- 105.21 SECONDS

BATSE BURST TRIGGER

NO.: 3742

TIME: TJD=9935 SECONDS=72548

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=118.1 AZIMUTH=53.6 ERROR=9.2 DEGREES

COMMENTS:

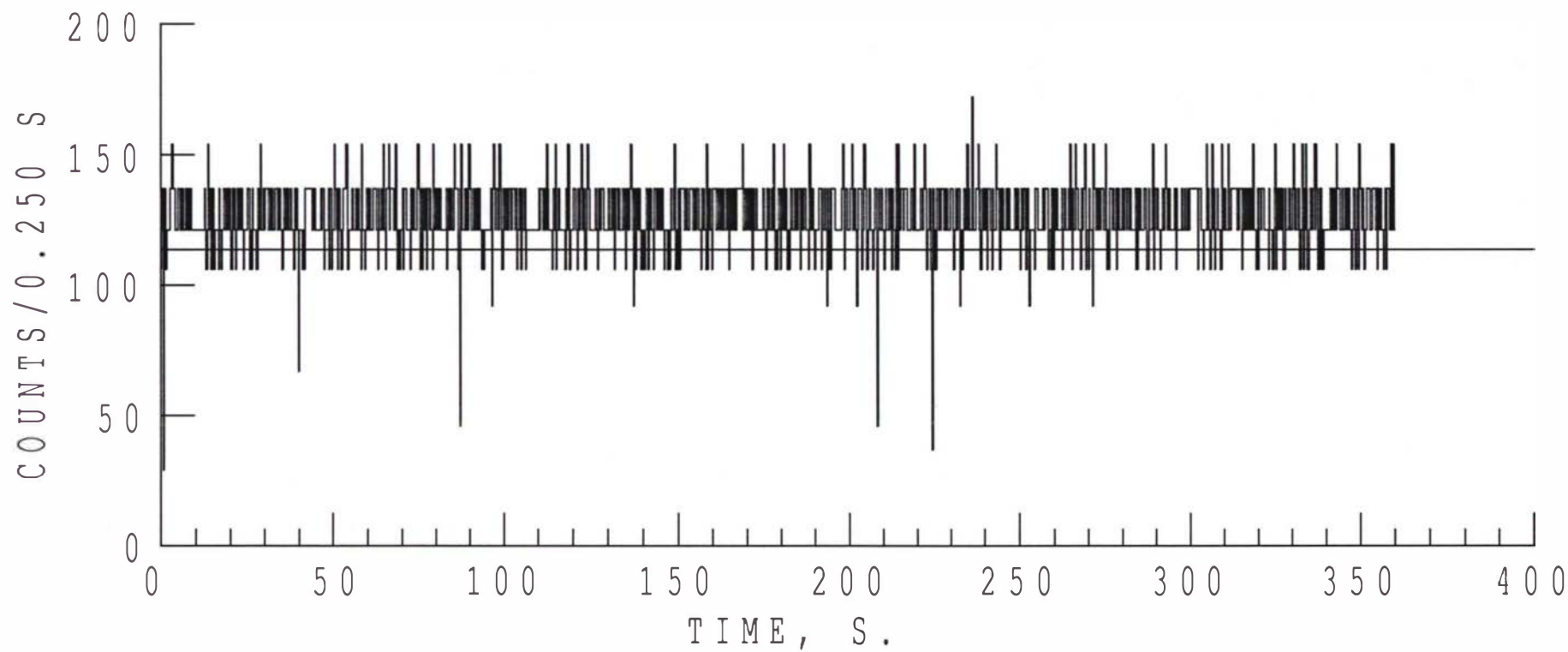
BURST. WEAK SINGLE SPIKE, DUR.~0.5 SECS. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3742	950806	9935	72548	3100	166	+36	.5

8 / 8 / 95

ULYSSES RT
6 / 8 / 95 71532.062 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



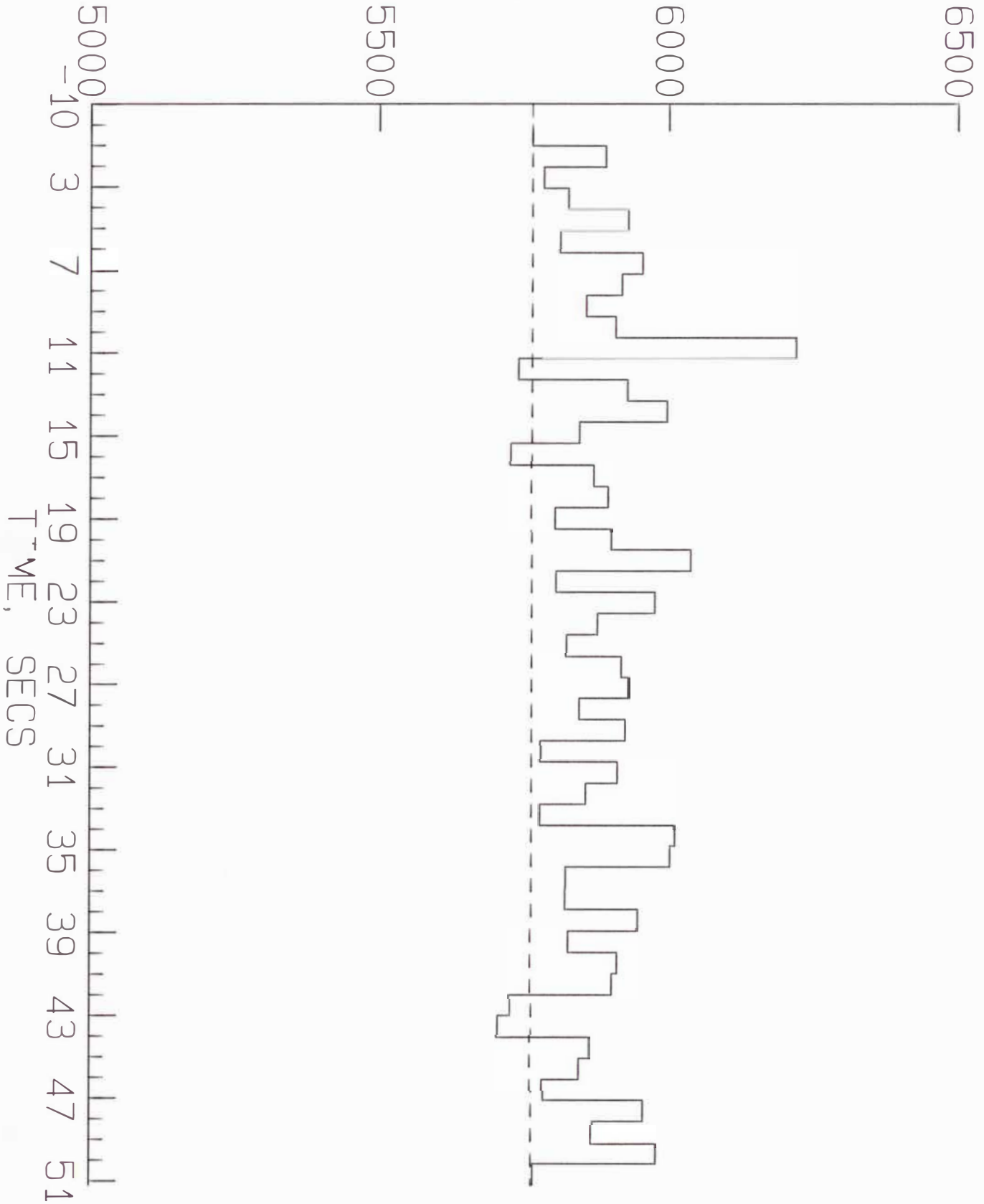
BACODINE

06/08/95

72537.777

25- 100 keV

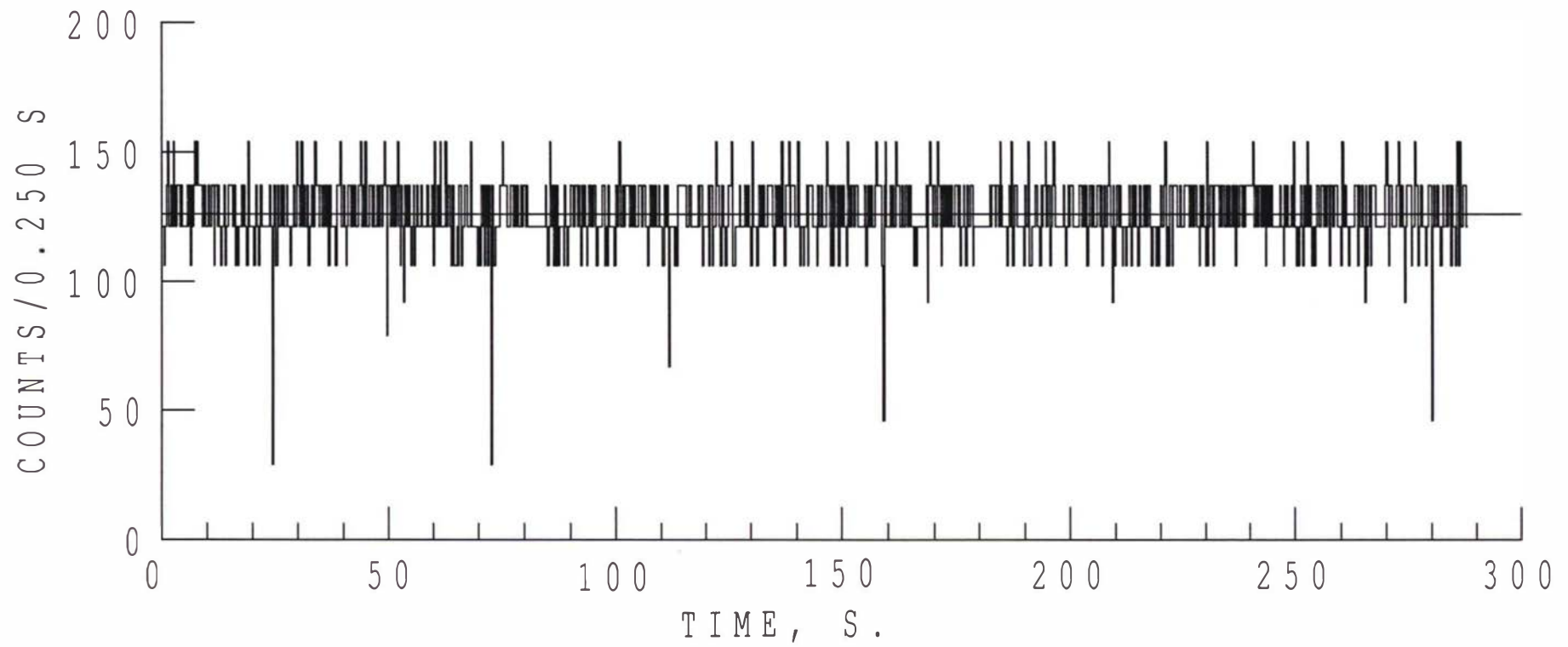
COUNTS/1.024 S

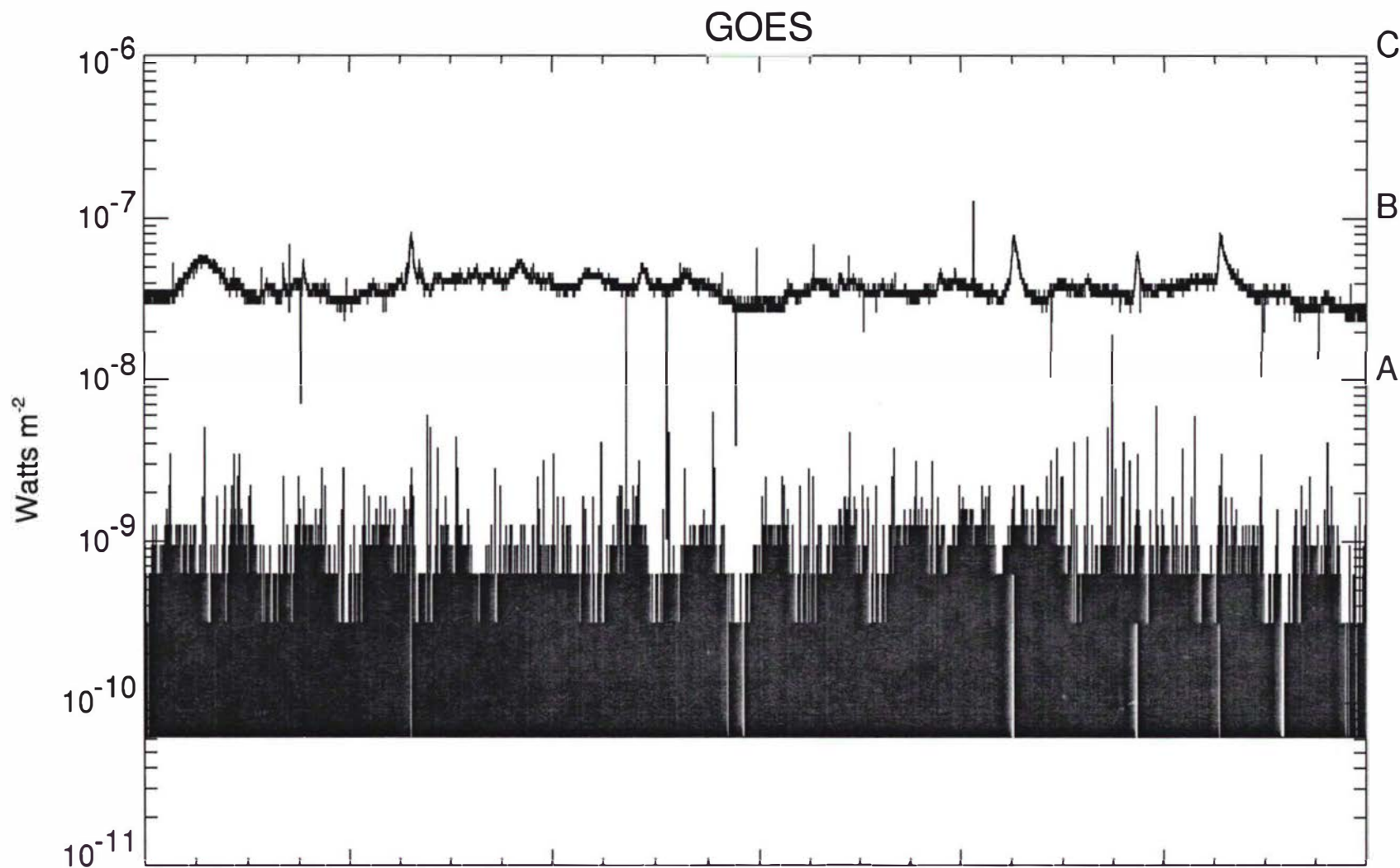


7 / 8 / 95

ULYSSES RT
6 / 8 / 95 71460.062 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





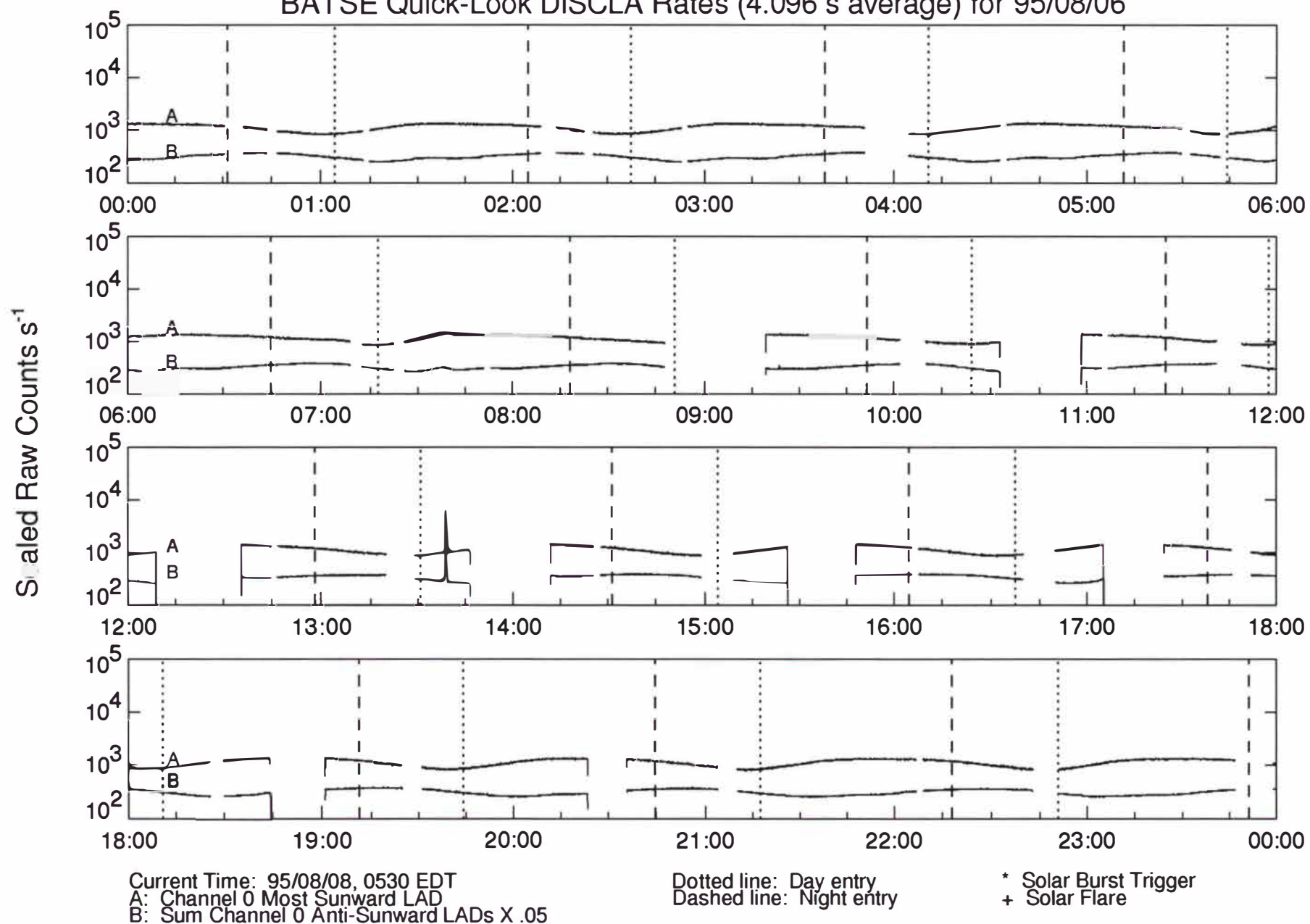
Data Start: 95/08/06, 0000:02

Plot created: 95/08/08, 0529

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

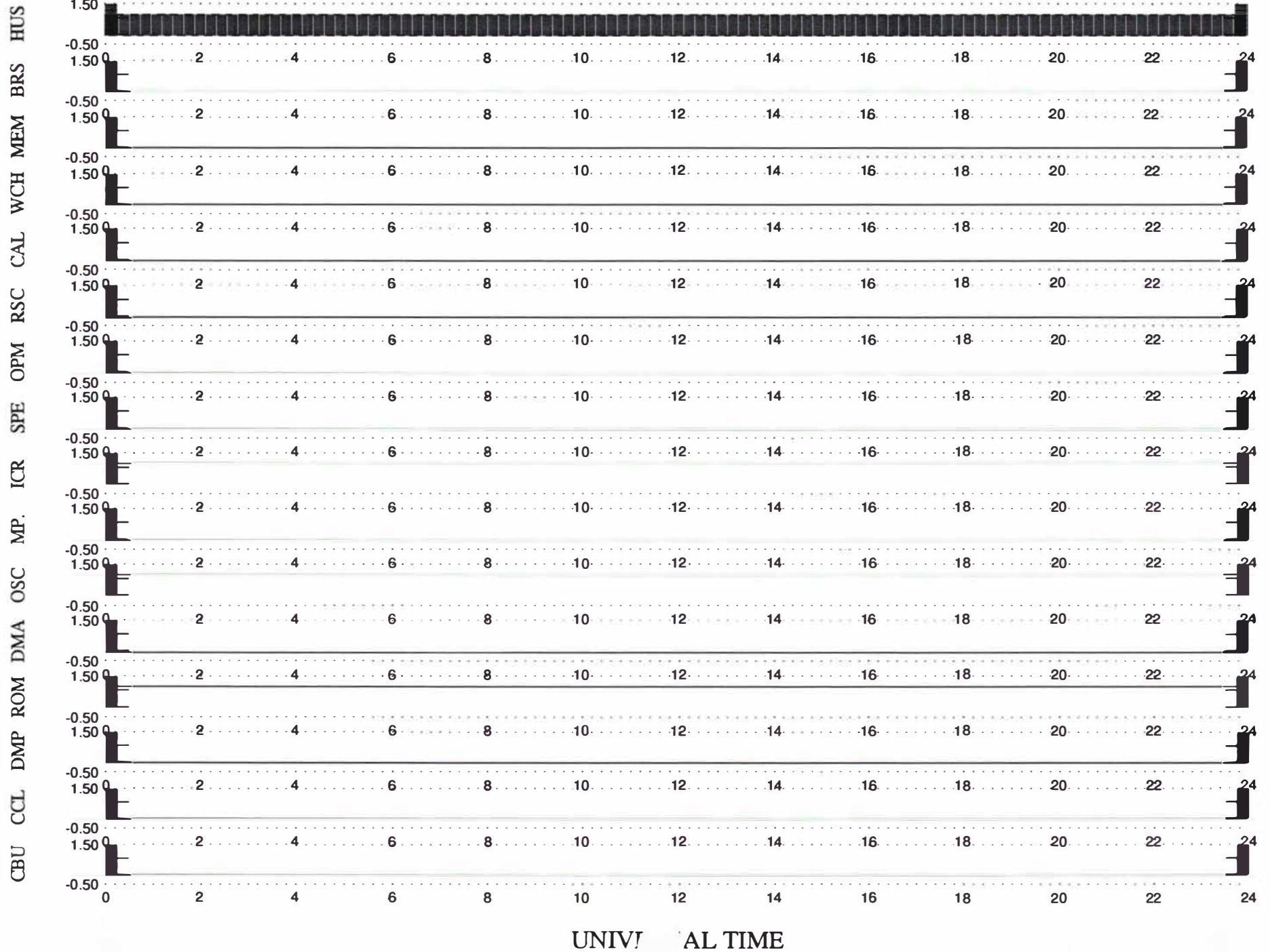
2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/06



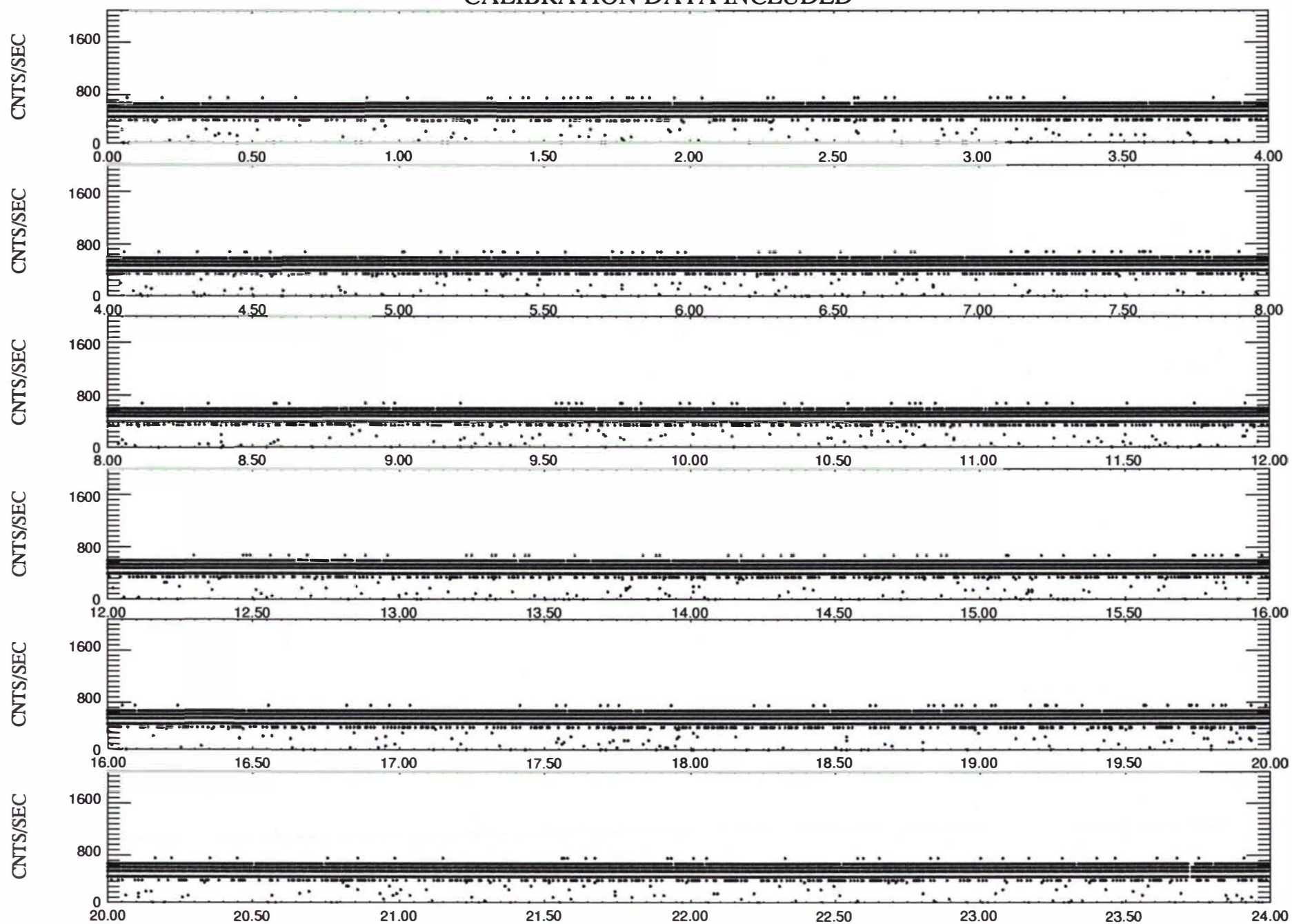
HUS MODES EDR day 218, year 1995 to day 218, year 1995
NO BURST (8)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 218, year 1995 to day 218, year 1995
CALIBRATION DATA INCLUDED

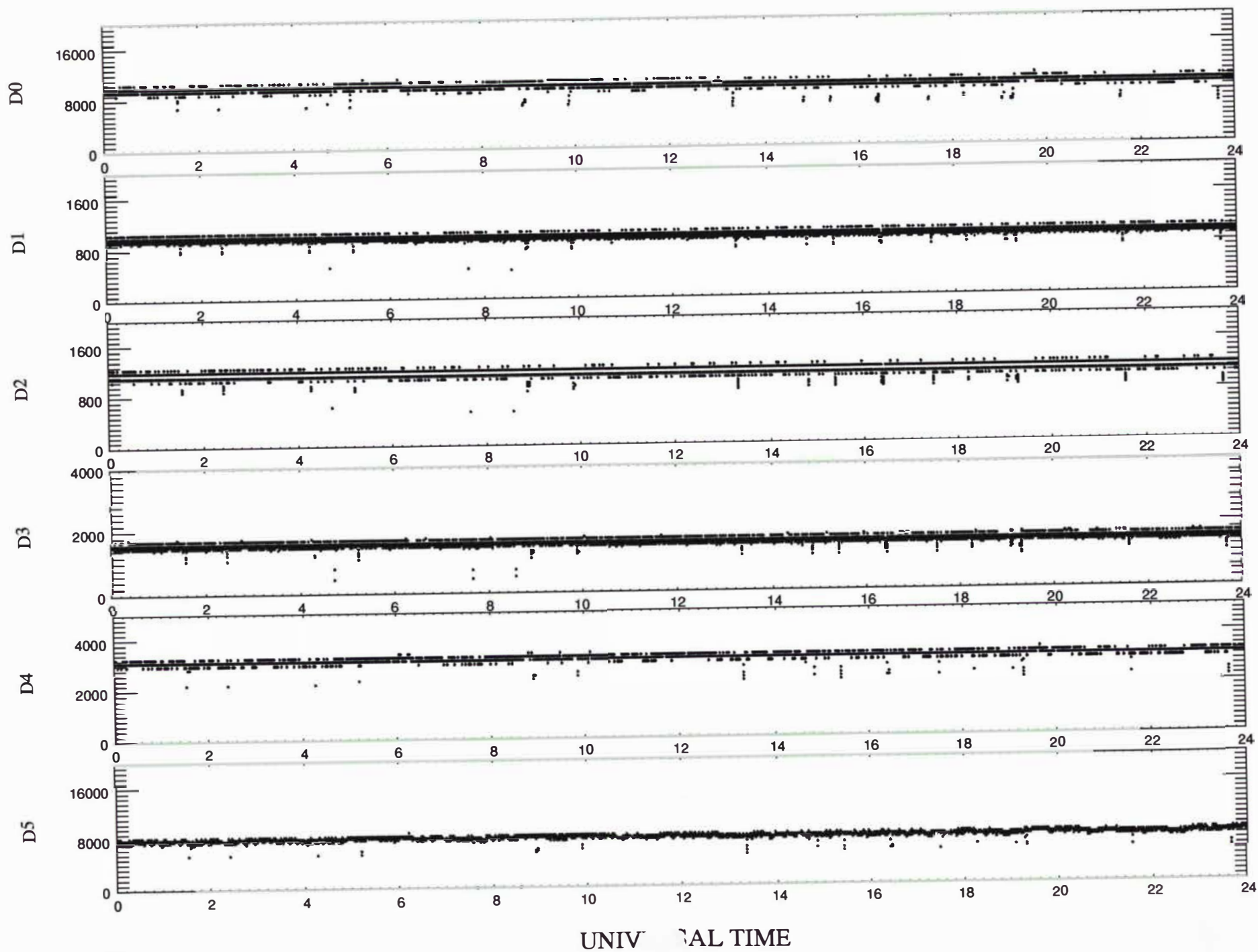
1/25/96



UNIVERSAL TIME

HUS 2B COUNTS / SEC QEDR day 218, year 1995 to day 218, year 1995

8/7/95



From HAGEDON@fender.msfc.nasa.gov Wed Aug 9 09:56 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Wed, 9 Aug 1995 11:55:52 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3743

TIME: TJD=9936 SECONDS=06209

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION. DUR.~8 SEC. NOT VISIBLE ABOVE 300 KEV.

From HAGEDON@fender.msfc.nasa.gov Wed Aug 9 10:00 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Wed, 9 Aug 1995 12:00:16 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3744

TIME: TJD=9936 SECONDS=57607

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

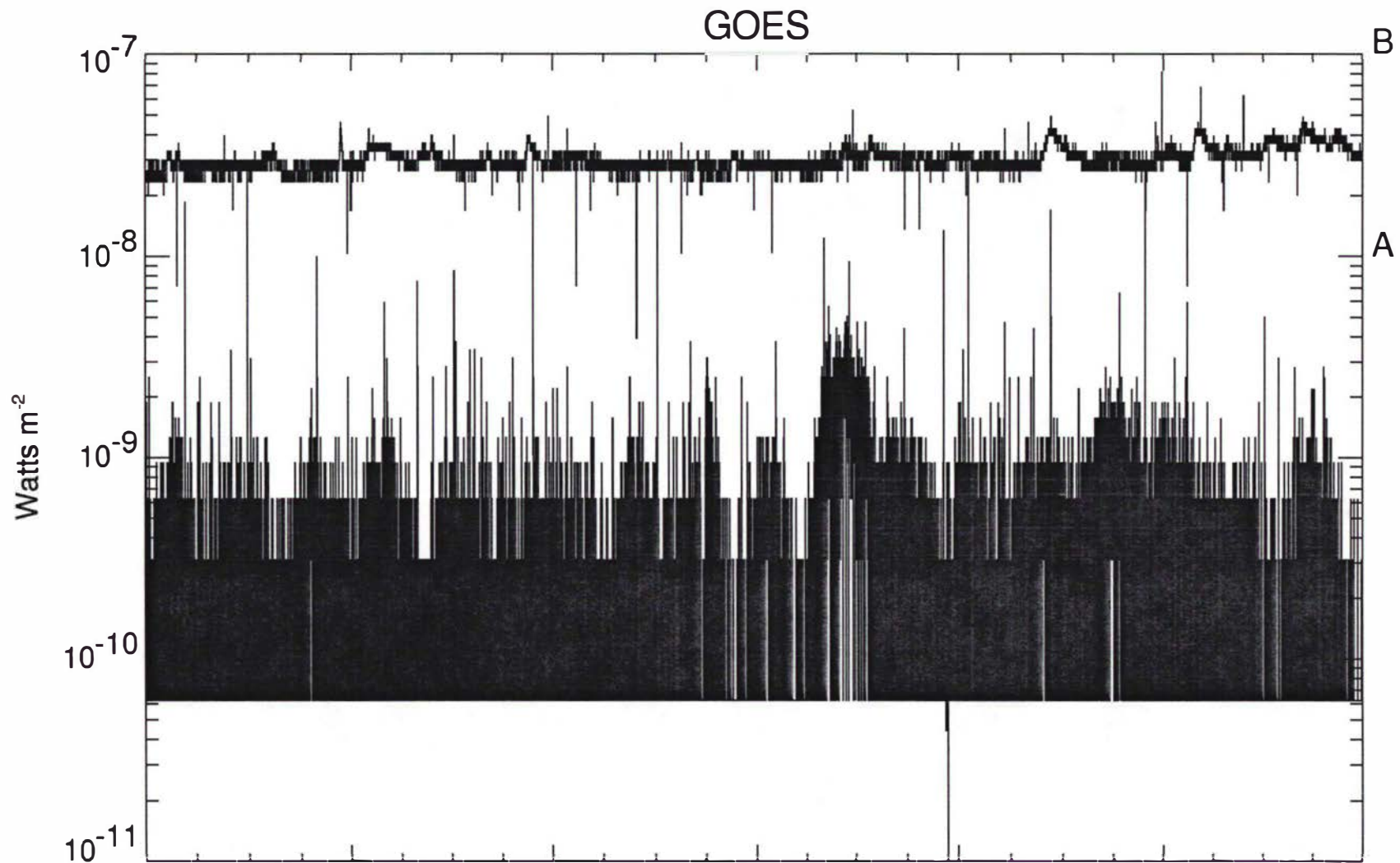
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION. DUR.~5 SEC. NOT VISIBLE ABOVE 300 KEV.



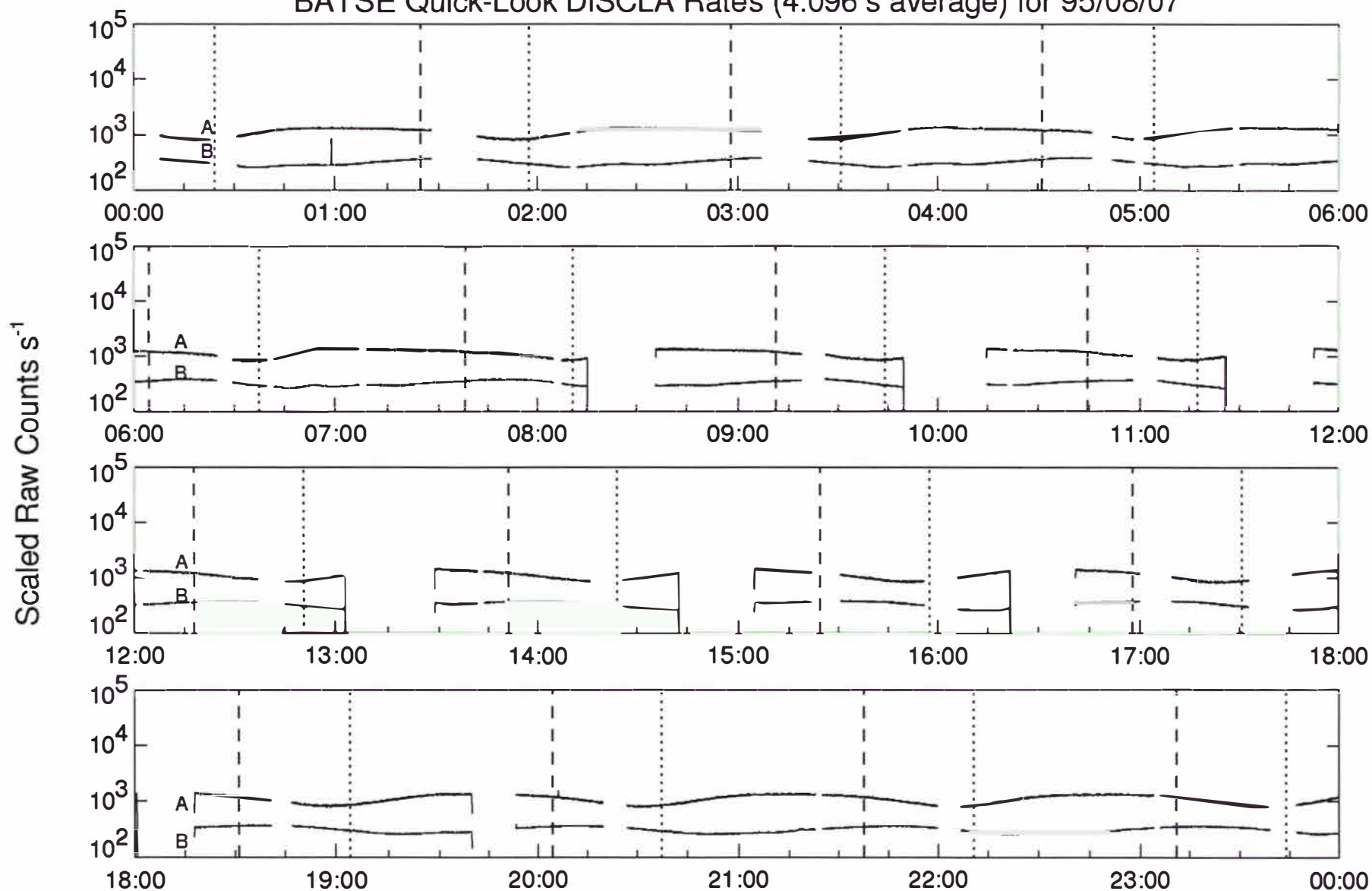
Data Start: 95/08/07, 0000:02

Plot created: 95/08/09, 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 95/08/07



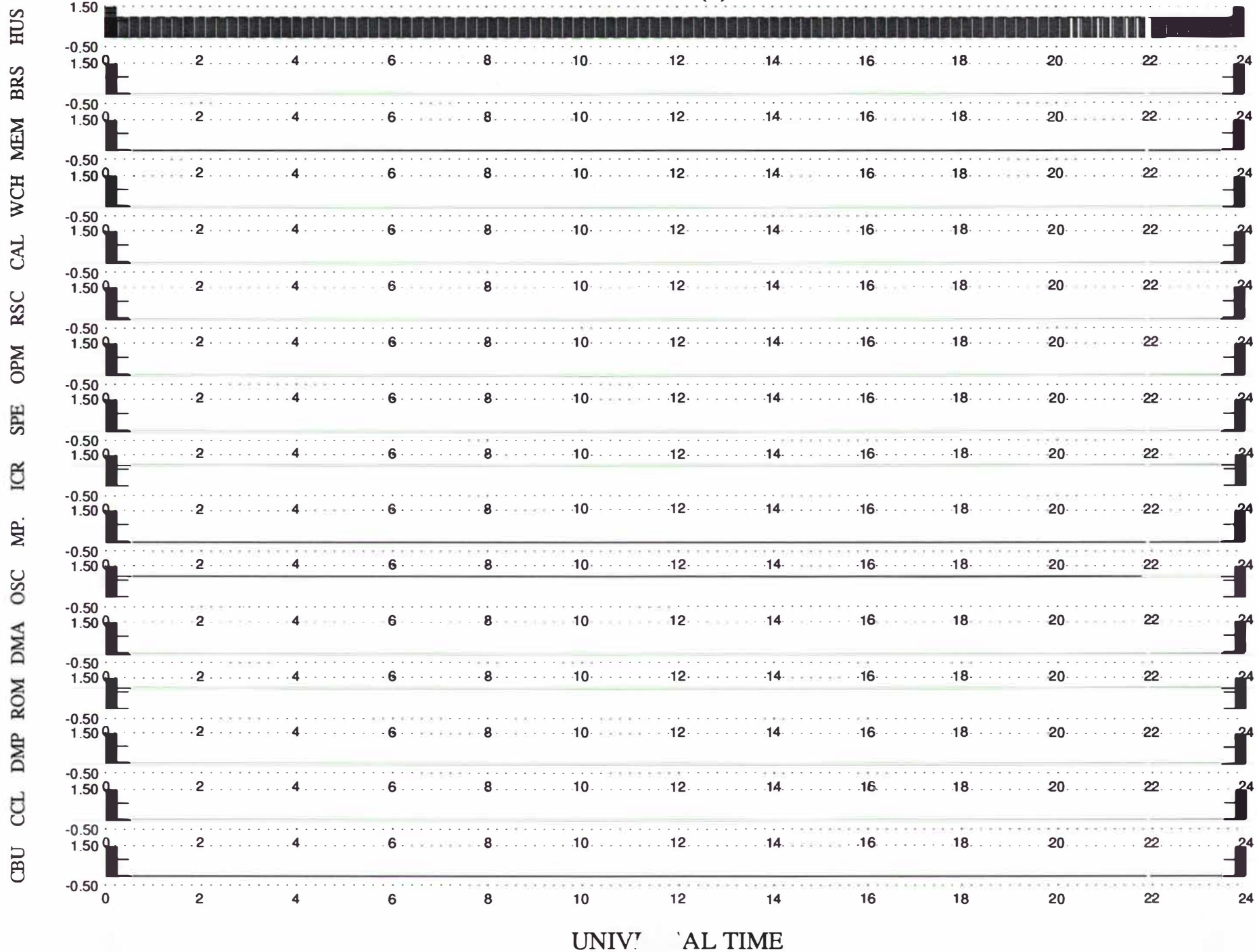
Current Time: 95/08/09, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

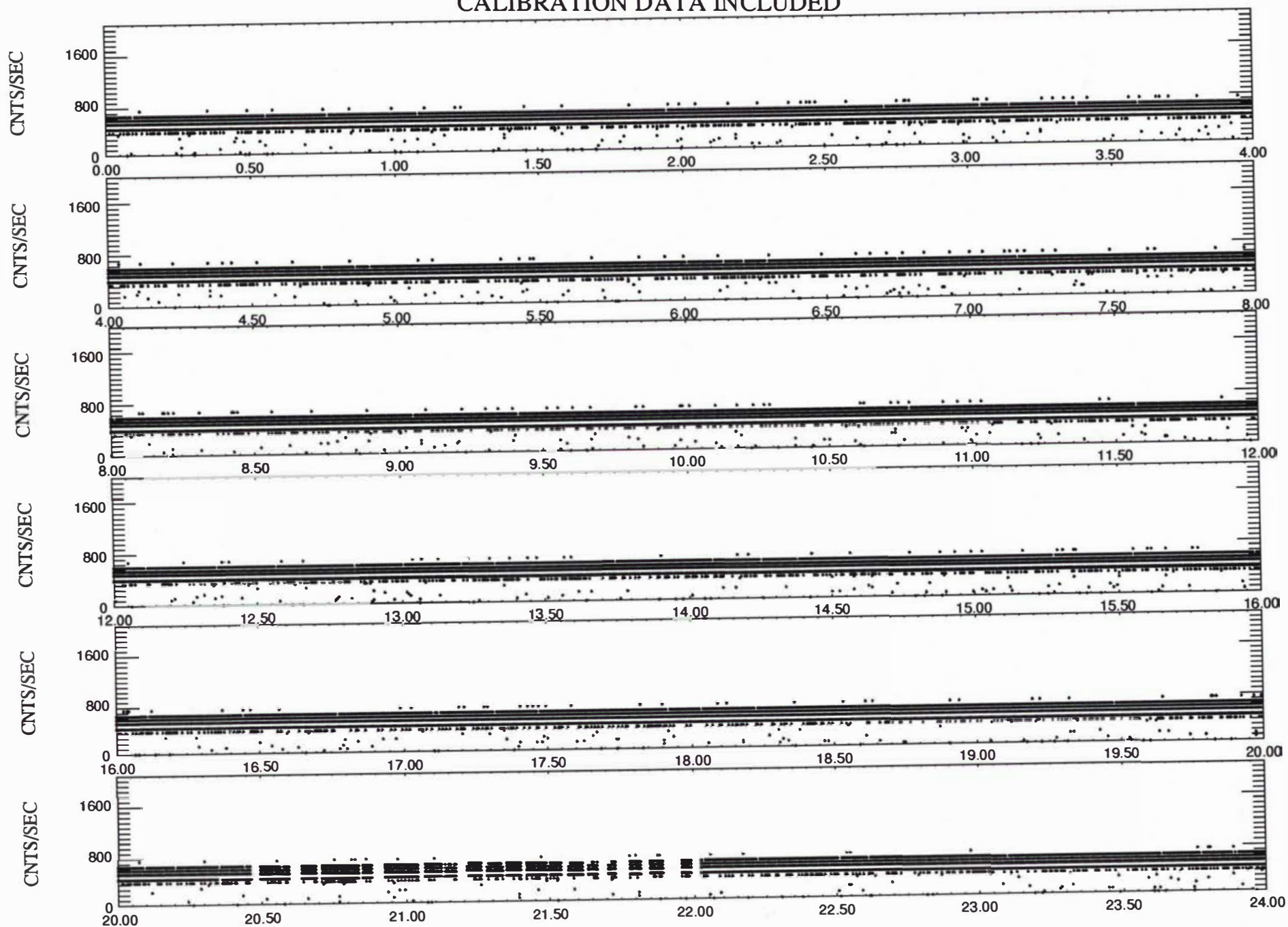
HUS MODES EDR day 219, year 1995 to day 219, year 1995
NO BURST (8)

1/25/96

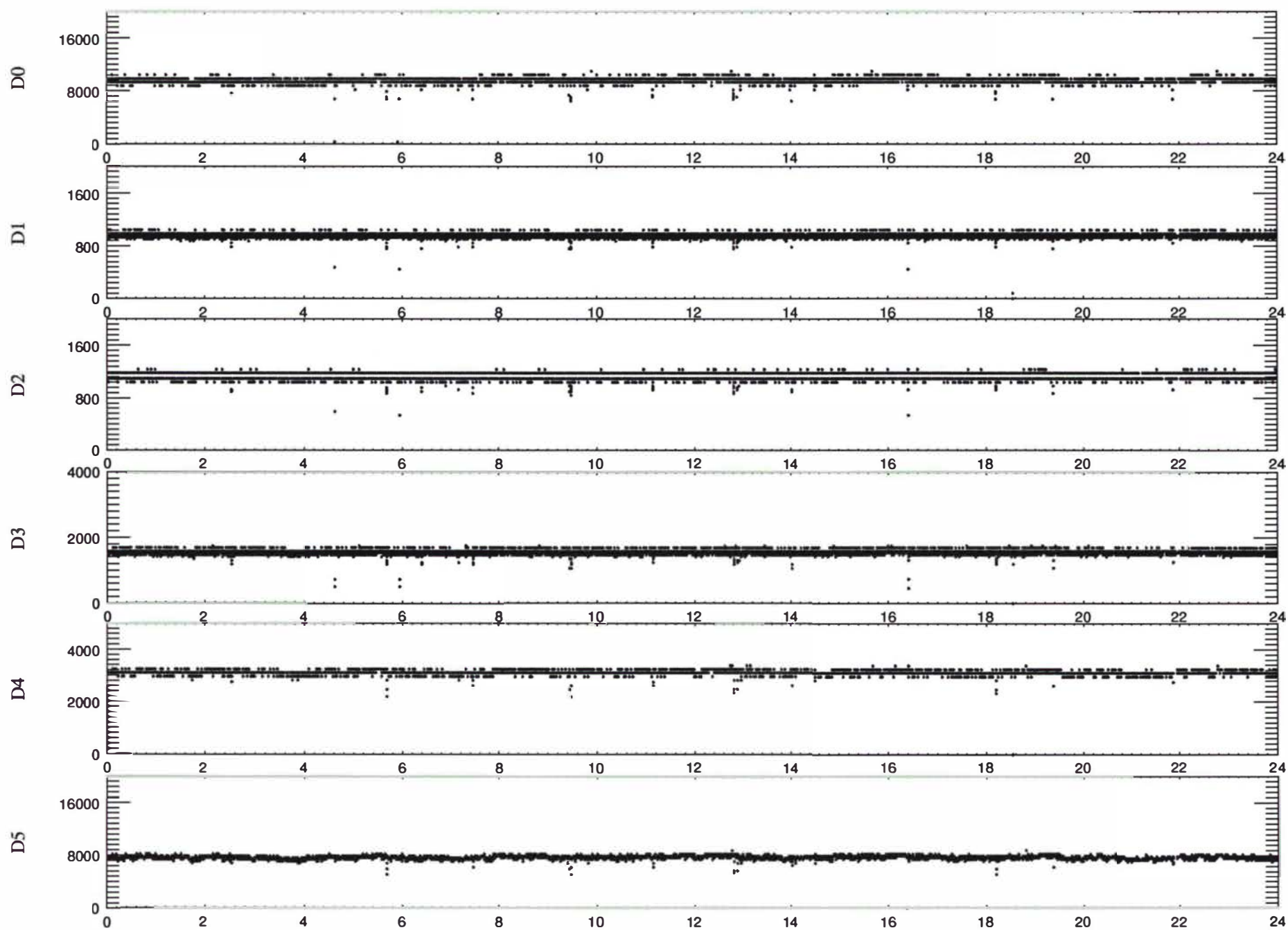


HUS 2A, MODE 1, NOT AVERAGED EDR day 219, year 1995 to day 219, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



From DEAL@SSLLES.MSFC.NASA.GOV Thu Aug 10 11:02 PDT 1995
Date: Thu, 10 Aug 1995 13:02:05 -0500 (CDT)
From: DEAL@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3745

BATSEARCH PROGRAM

NO

BATSE BURST # 3745
EVENT OF 1995 AUG 8 DAY OF YEAR=220
EVENT CROSSING TIME AT BATSE : 12974. S. OR 03:36:14.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 150.000 80.000
BATSE PEAK COUNTING RATE: 7000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 8/ 8/ 95 IS:
RA= 162.518 DEC= 79.276 DIST= 2.306 AU
BATSE-ULYSSES DISTANCE = 344938900. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=177.64 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH=-1149.62 SECS.
CROSSING TIME AT ULYSSES IS 11824. S. OR 03:17:04 +/- 59.23 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 8/ 8/ 95 IS:
RA= 189.841 DEC= -4.046 DIST= 1.898 AU
MARS-BATSE DISTANCE = 283970080. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 93.64 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -60.16 SECS.
CROSSING TIME AT MARS IS 12914. S. OR 03:35:13 +/- 163.21 SECONDS

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3745	950808	9937	12974	7000	150	+80	100

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	

10 / 8 / 95

ULYSSES RT

8 / 8 / 95

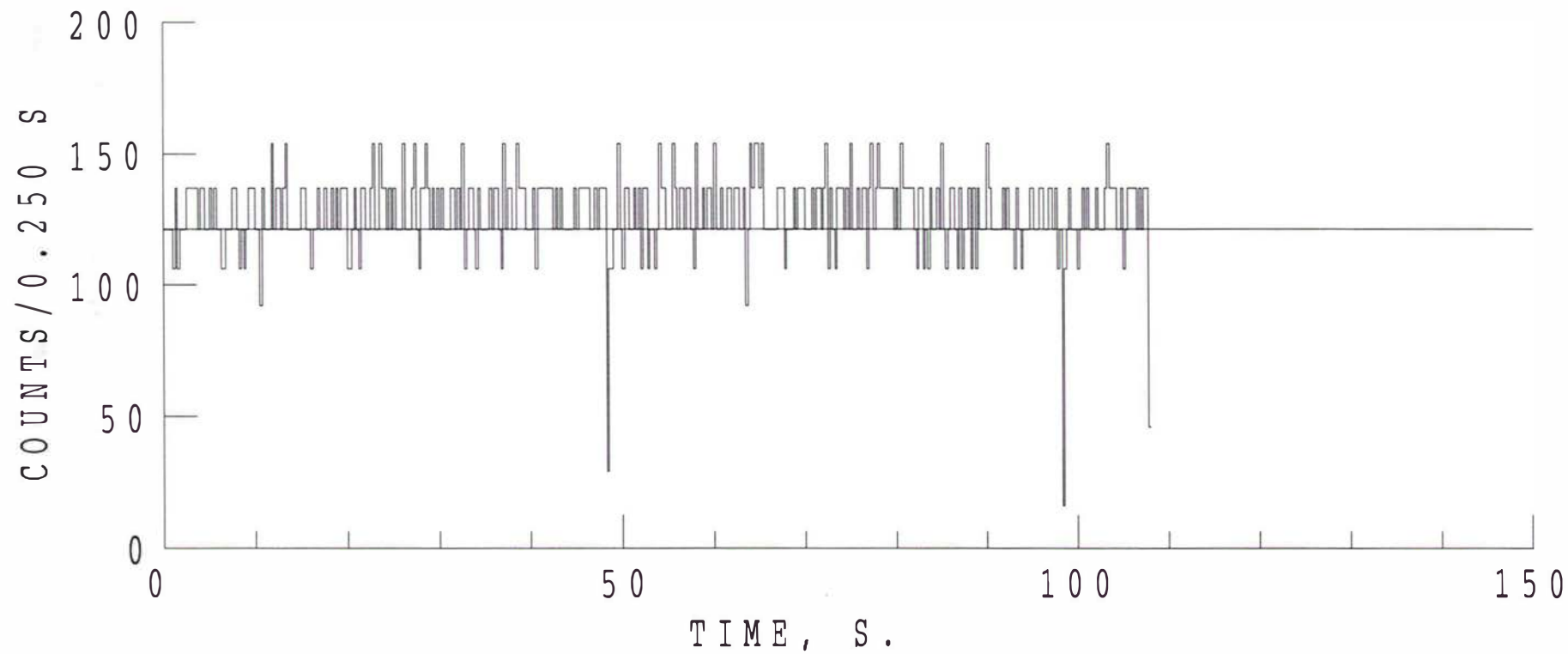
11772.049 s

0 - 0 keV

check

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



KONUS

ULYSSES RT

26 / 01 / 00

12 / 08 / 95 38340.152 s

0.250 S INTERVALS REGROUPED BY 7

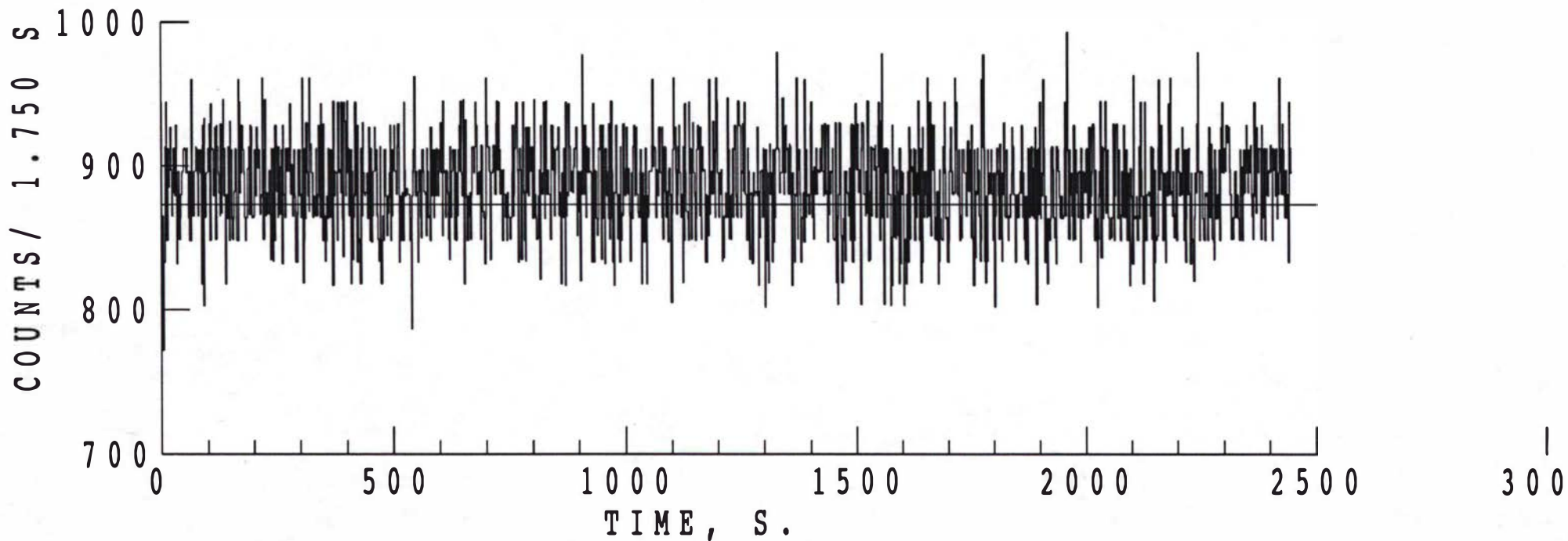
0 - 0 keV

N= 10 M= 10

>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From DEAL@SSLLES.MSFC.NASA.GOV Thu Aug 10 10:59 PDT 1995
Date: Thu, 10 Aug 1995 12:58:54 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3746

TIME: TJD=9937 SECONDS=60741

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=123.7 AZIMUTH=116.6 ERROR=15.17 DEGREES

COMMENTS:

CYG X-1 FLUCTUATION LASTING ~ 2S. VISIBLE ABOVE 300 KEV.

KONUS

ULYSSES RT

26 / 01 / 00

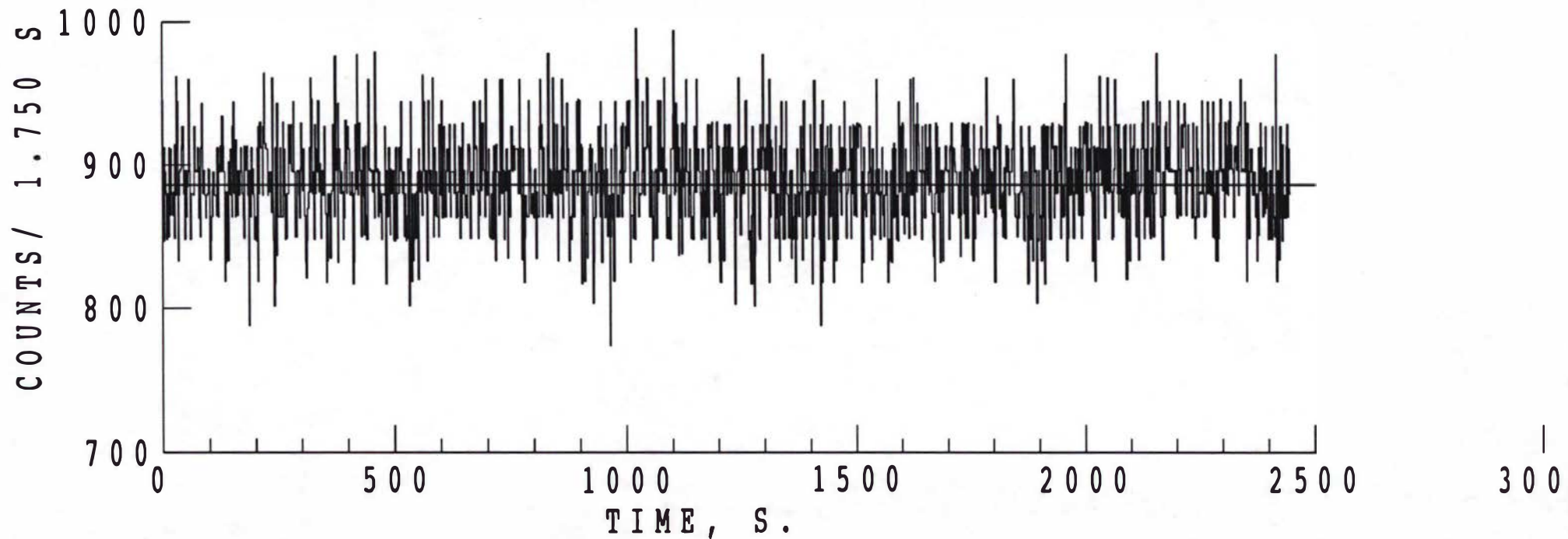
12 / 08 / 95 77328.062 s

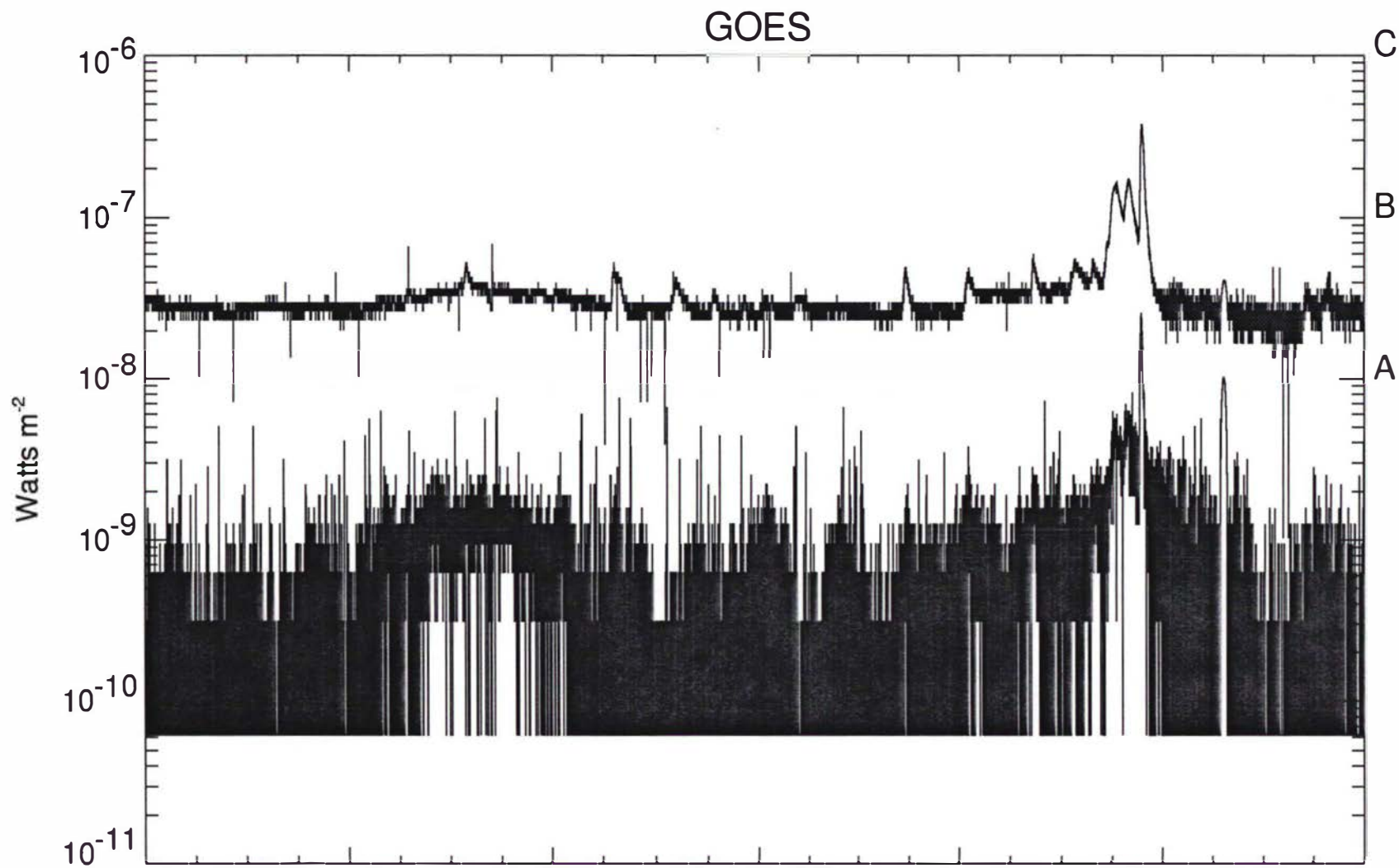
0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





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

Plot created: 95/08/10, 0529

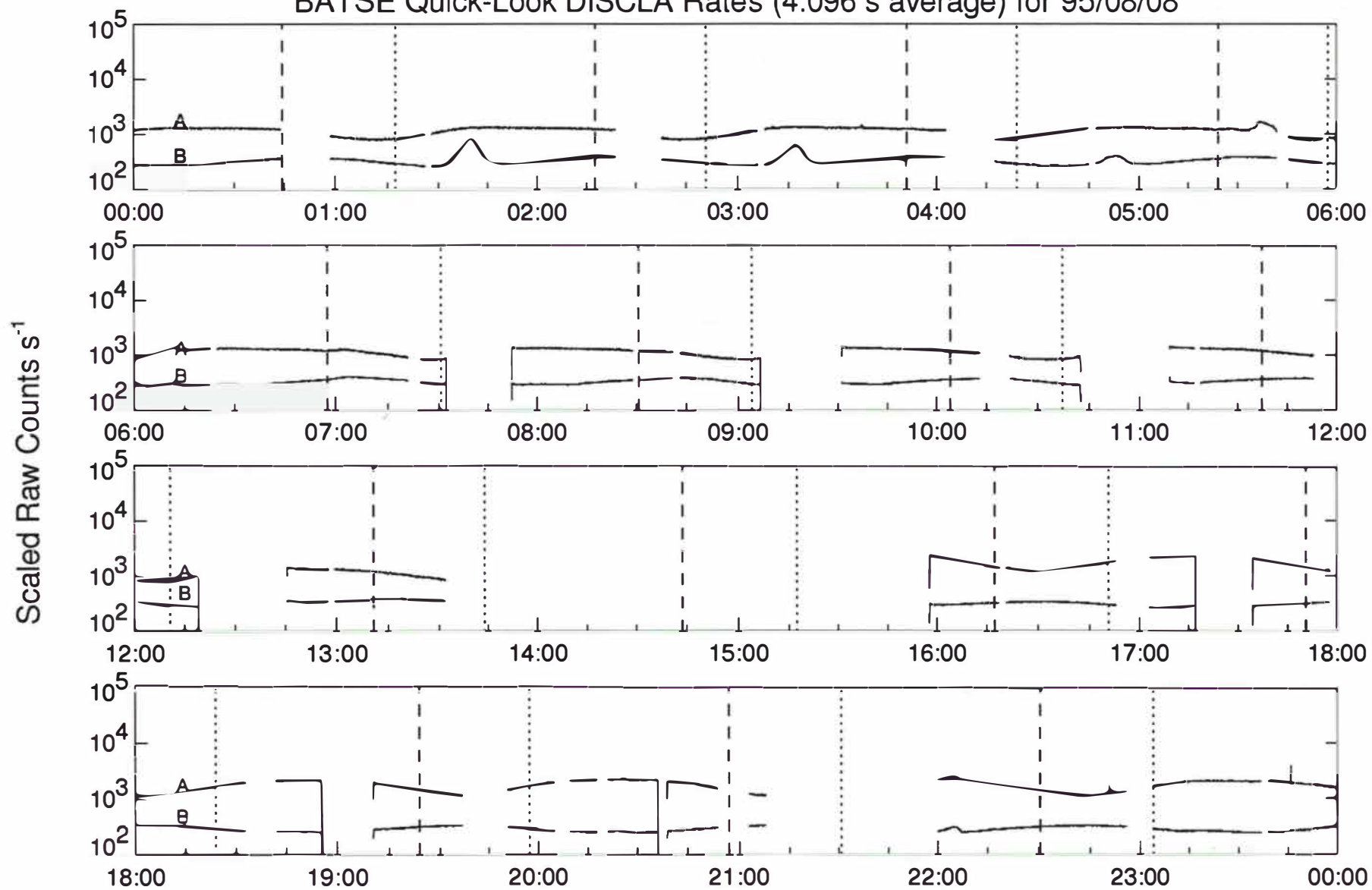
Channel 1 (1.0 - 8.0 Angstroms)

Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms)

Background not subtracted

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

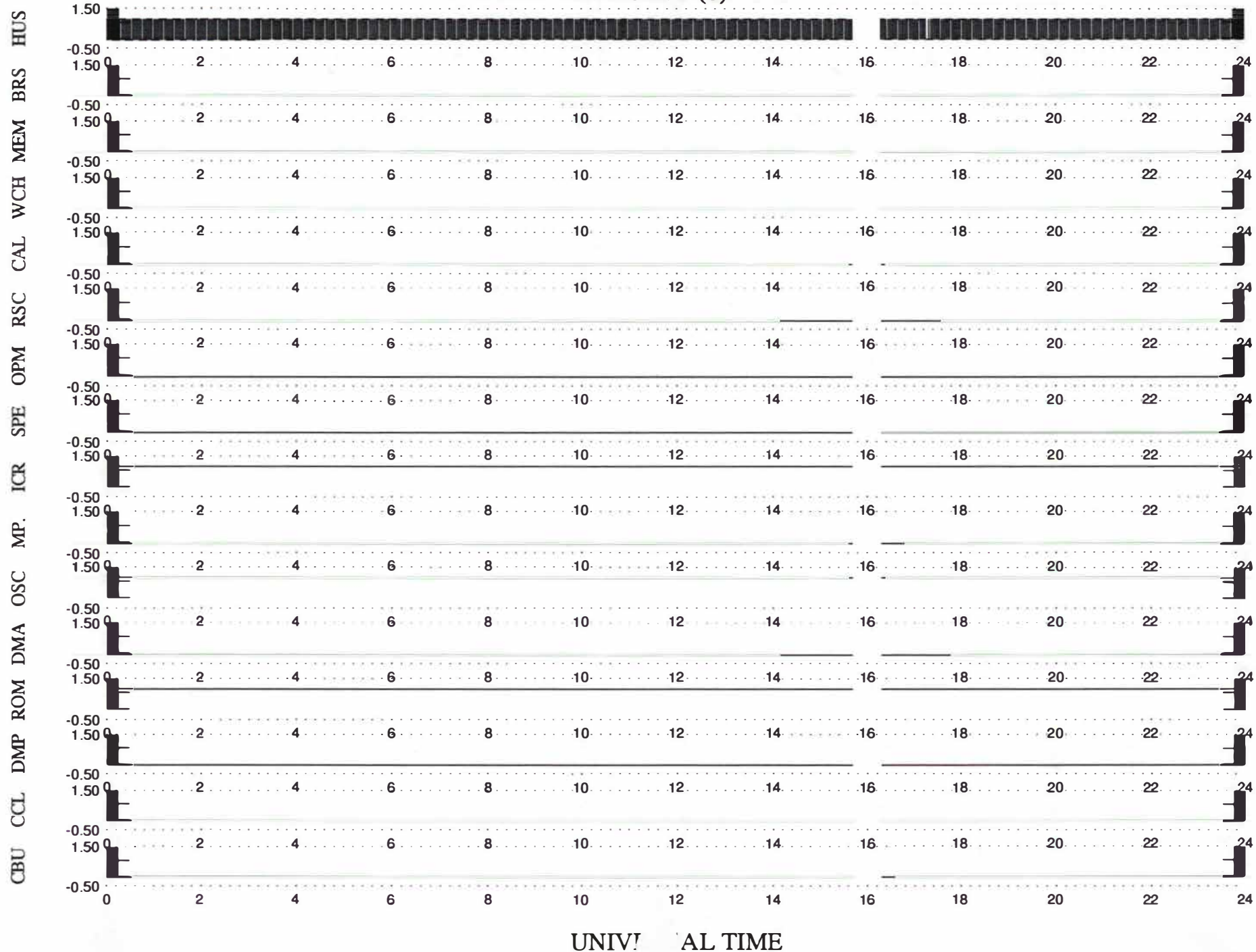


Current Time: 95/08/10, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

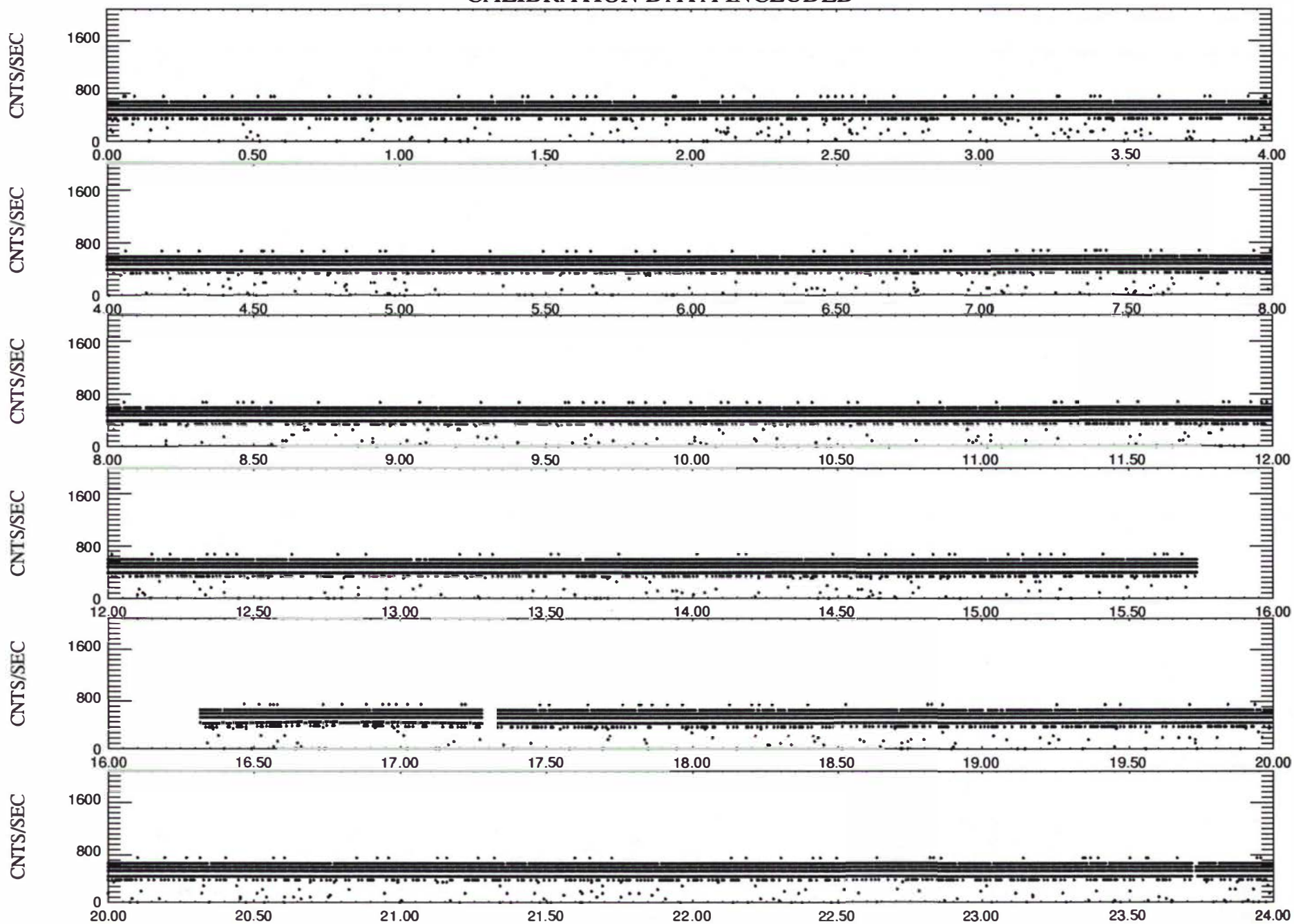
* Solar Burst Trigger
 + Solar Flare

1/25/96

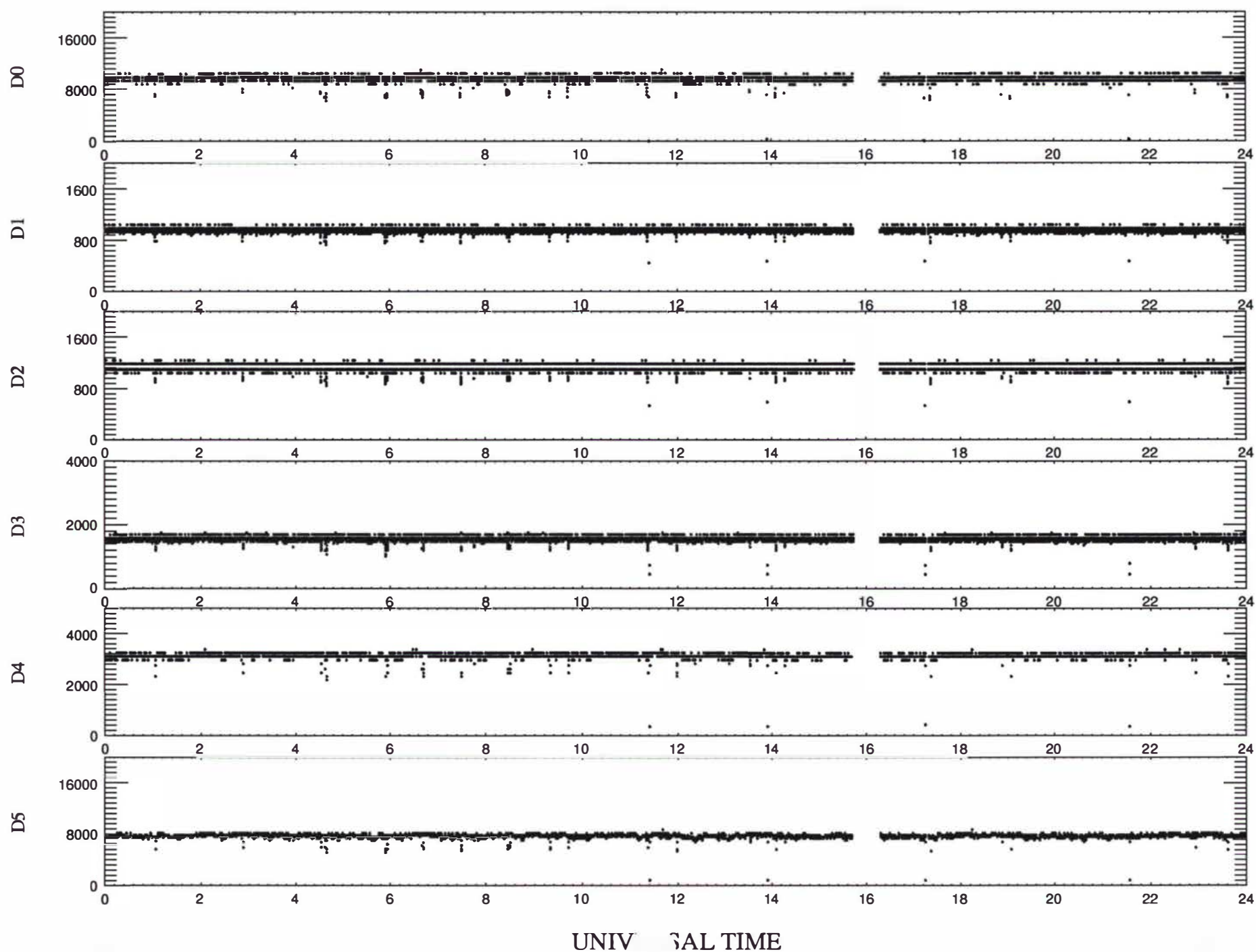


HUS 2A, MODE 1, NOT AVERAGED EDR day 220, year 1995 to day 220, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV AL TIME



From SAHI@SSLLES.MSFC.NASA.GOV Fri Aug 11 09:41 PDT 1995
Date: Fri, 11 Aug 1995 11:40:45 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3747

TIME: TJD=9938 SECONDS=18535

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION.

From SAHI@SSLLES.MSFC.NASA.GOV Fri Aug 11 09:52 PDT 1995
Date: Fri, 11 Aug 1995 11:52:09 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3749

TIME: TJD=9938 SECONDS=39791

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION.

From SAHI@SSLLES.MSFC.NASA.GOV Fri Aug 11 09:48 PDT 1995
Date: Fri, 11 Aug 1995 11:48:17 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3748

TIME: TJD=9938 SECONDS=31749

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
PARTICLE EVENT.

From SAHI@ssl.msfc.nasa.gov Fri Aug 11 11:07 PDT 1995
Return-Path: <SAHI@ssl.msfc.nasa.gov>
Received: from SSLMOR.MSFC.NASA.GOV by sunspot.ssl.berkeley.edu (SMI-8.6/SMI-SVR4)
id LAA17575; Fri, 11 Aug 1995 11:07:40 -0700
om: SAHI@ssl.msfc.nasa.gov
ate: Fri, 11 Aug 1995 13:07:36 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Message-Id: <950811130736.21007916@ssl.msfc.nasa.gov>
Subject: Crossing Windows for BATSE Burst 3750
Content-Type: text
Content-Length: 1135
X-Lines: 26
Status: RO

RI

BATSEARCH PROGRAM

BATSE BURST # 3750
EVENT OF 1995 AUG 9 DAY OF YEAR=221
EVENT CROSSING TIME AT BATSE : 85945. S. OR 23:52:25.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 51.000 14.000
BATSE PEAK COUNTING RATE: 20000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 9/ 8/ 95 IS:
RA= 165.975 DEC= 78.481 DIST= 2.321 AU
BATSE-ULYSSES DISTANCE = 347184877. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 98.93 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -179.78 SECS.
CROSSING TIME AT ULYSSES IS 85765. S. OR 23:49:25 +/- 245.89 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 9/ 8/ 95 IS:
RA= 190.406 DEC= -4.301 DIST= 1.904 AU
MARS-BATSE DISTANCE = 284818528. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 41.16 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 715.24 SECS.
CROSSING TIME AT MARS IS 86660. S. OR 24:04:20 +/- 119.43 SECONDS

BATSE BURST TRIGGER

NO.: 3750

TIME: TJD=9938 SECONDS=85945

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=31.8 AZIMUTH=172.2 ERROR=0.06 DEGREES

MENTS:

BURST. SINGLE PULSE, RISE FASTER THAN DECAY, DUR.~15 SECS.
VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3750	950809	9938	85945	20000	051	+14	15

From khurley@sunspot Tue Sep 26 08:37 PDT 1995
 Date: Tue, 26 Sep 1995 08:24:27 -0700
 From: khurley@sunspot (Kevin Hurley)
 To: butterworth@lheavx.gsfc.nasa.gov, khurley@sunspot
 Subject: Konus triggers in August

Dear Paul,

Here's the completed list. The data gap on the 9th is likely to be filled when we get our final data CD in a month or so.

Kevin

```
> -----
> Konus Triggers
> -----
>
> KONUS#      Date      Time      Event      T#      B#      U#
> / detector
>
> 136    8/02    22:25:43.788  particle (near Earth)  n/a    n/a    n/a
> 137    02     23:00:16.156  particle (near Earth)  n/a    n/a    n/a
> 138 N 04     01:58:55.704  strong,multi-peak,3sGRB  -      3734  TRIGGER
> 139 N 04     09:02:41.958  weak,multi-peak,120sGRB  -      -      RI
> 140 N 04     12:36:17.251  weak,single-peak,0.5sGRB  -      3735  NO
> 141 N 05     00:04:43.498  weak,multi-peak,25sGRB  -      -      NO
> 142 S 05     03:44:14.144  strong,single-peak,0.1sGRB  326    3736  RI
> 143 S 09     23:52:25.672  strong,double-peak,4sGRB  329    3750  DATA GAP
> 144 N 18     01:24:25.640  v.strong,single-peak,10sGRB  330    3765  TRIGGER
>    45    20     00:45:06.928  particle (near Earth)  n/a    n/a    n/a
>    46    20     14:24:17.743  particle (near Earth)  n/a    n/a    n/a
> 147 S 22     03:49:10.530  v.strong,multi-peak,30sGRB  336    3767  TRIGGER
> 148 N 25     04:24:23.399  moderate,multi-peak,120sGRB  -      -      RI
>
```

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

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

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

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

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

Helio corr removed

Date: Feb 18 '98

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

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

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)? 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

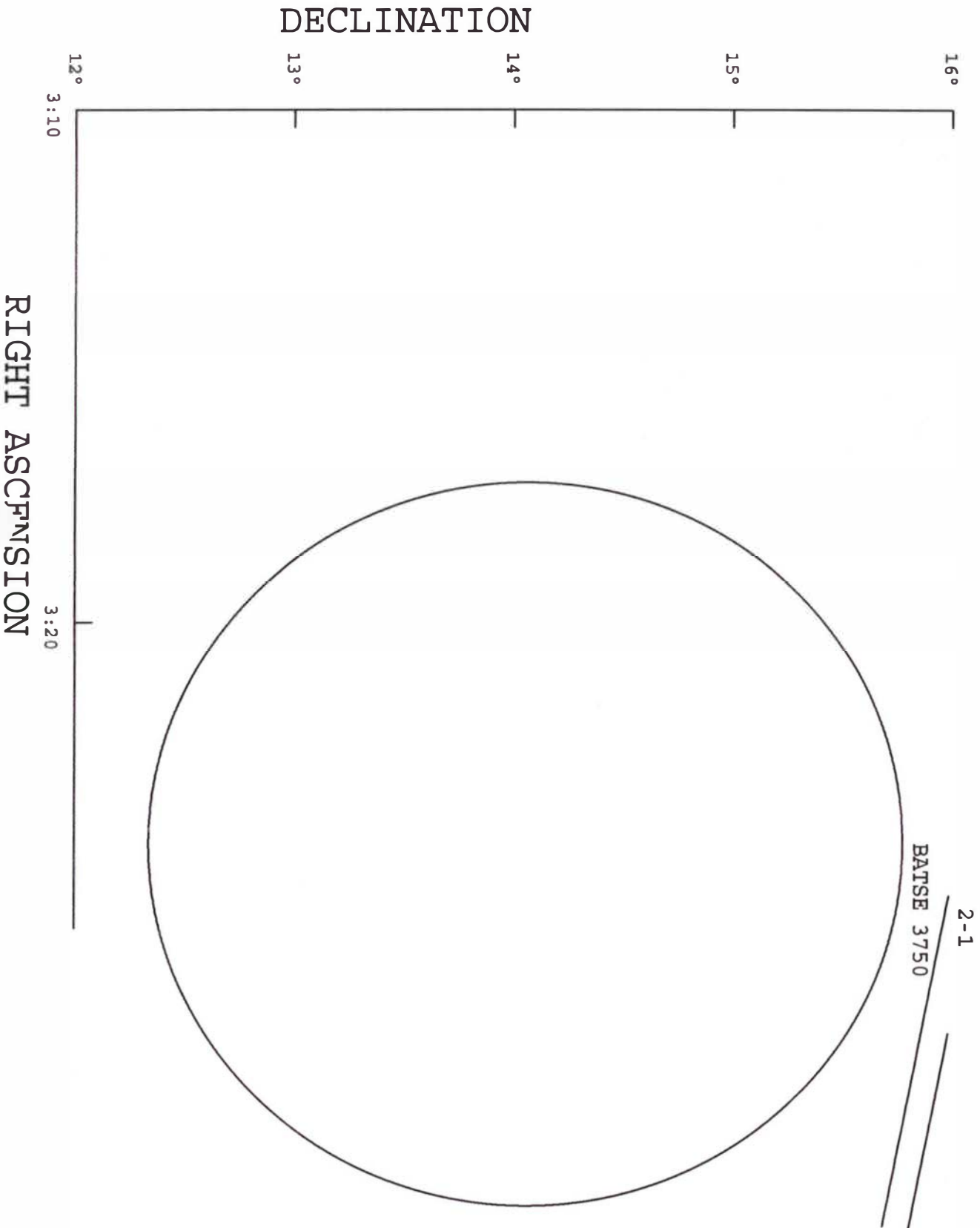
3. PVO Data

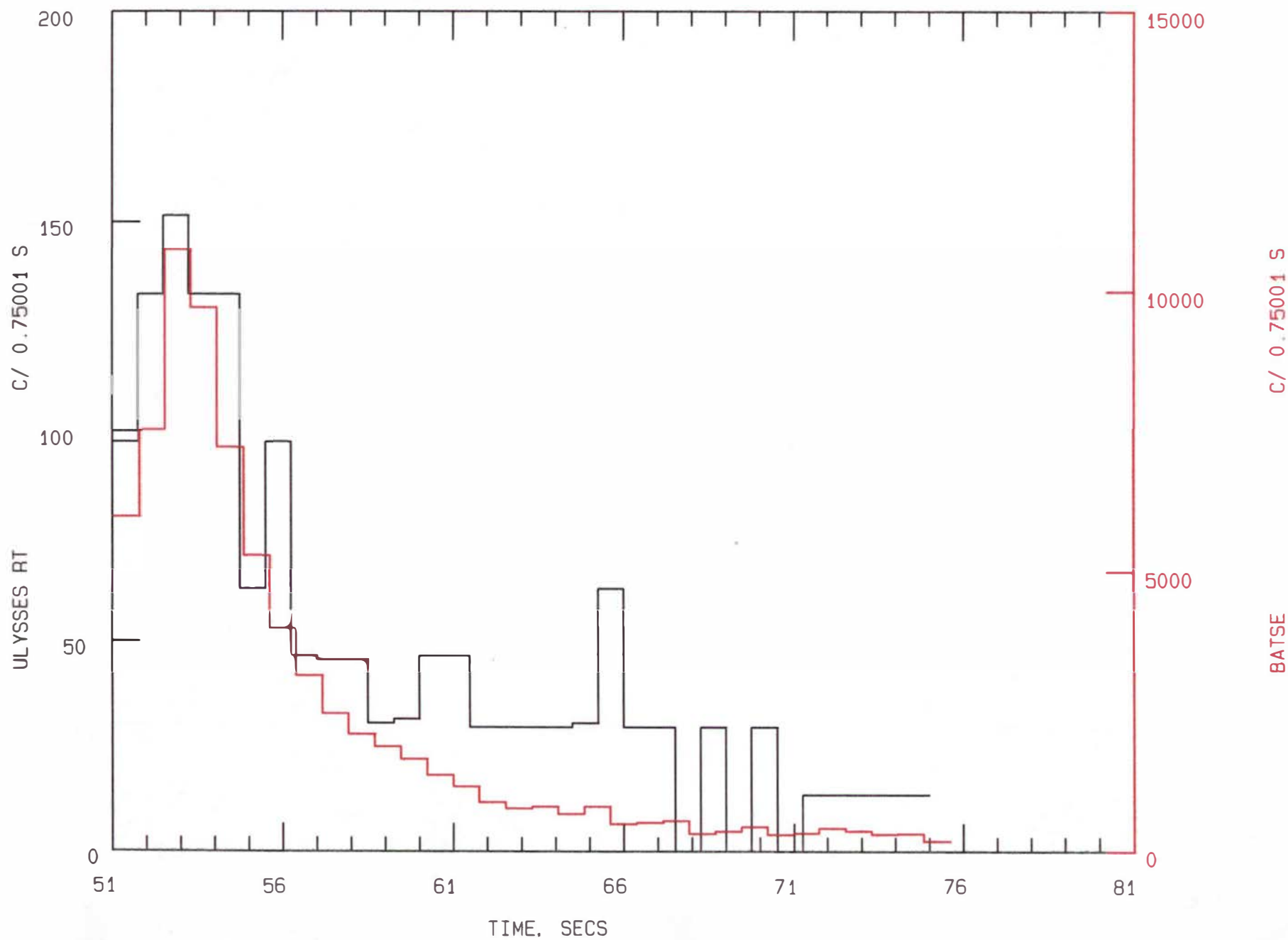
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS database updated?

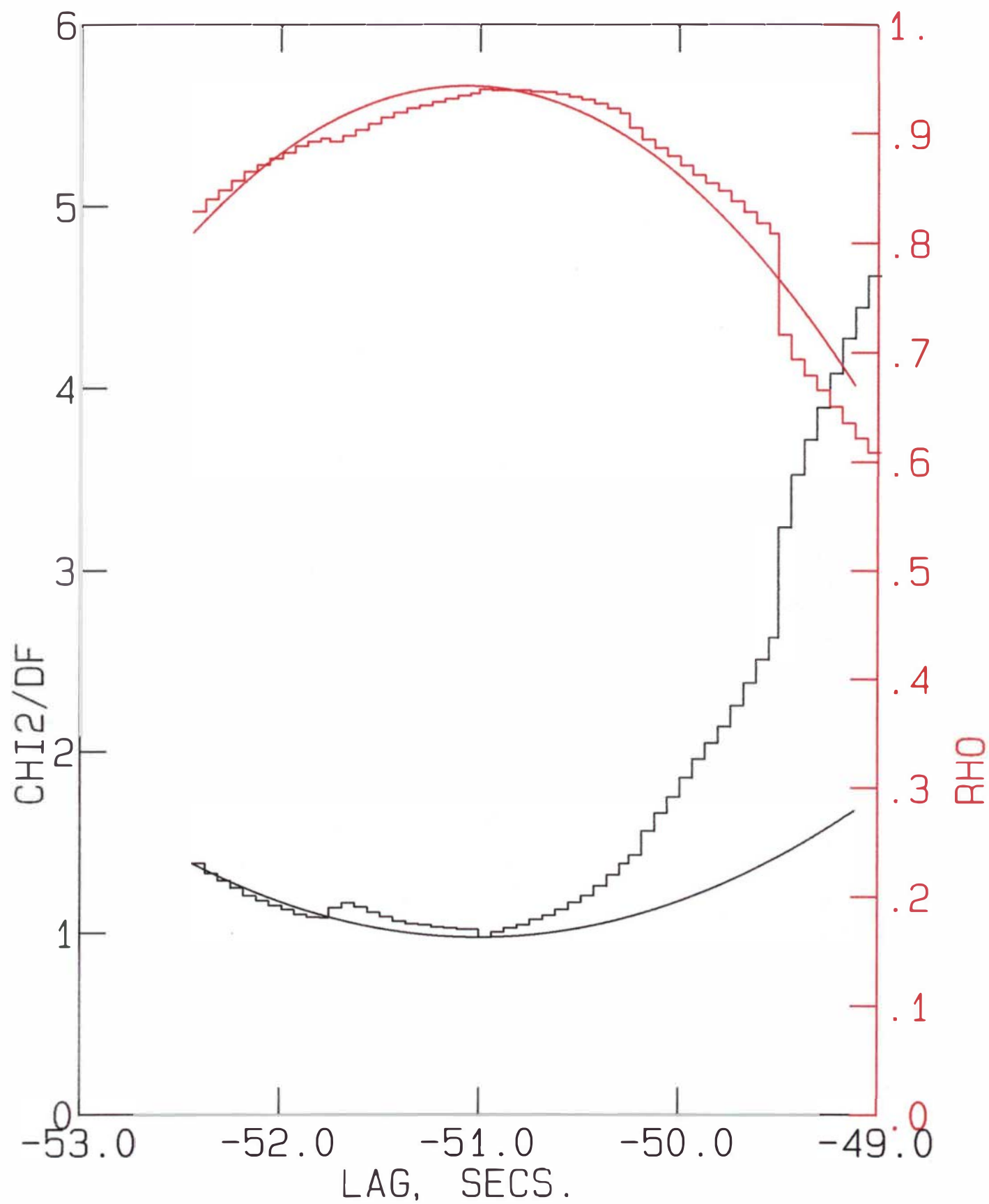
N-M = CORRELATION BETWEEN SATELLITES N AND M
EARTH-N = EARTH AS SEEN FROM SATELLITE N
S=SUN E=ECLIPTIC G=GALACTIC EQUATOR
1 ULYSSES 2 BATSE

EVENT OF AUG 9, 1995 23:47

18 / 2/98







ULYSSES RT

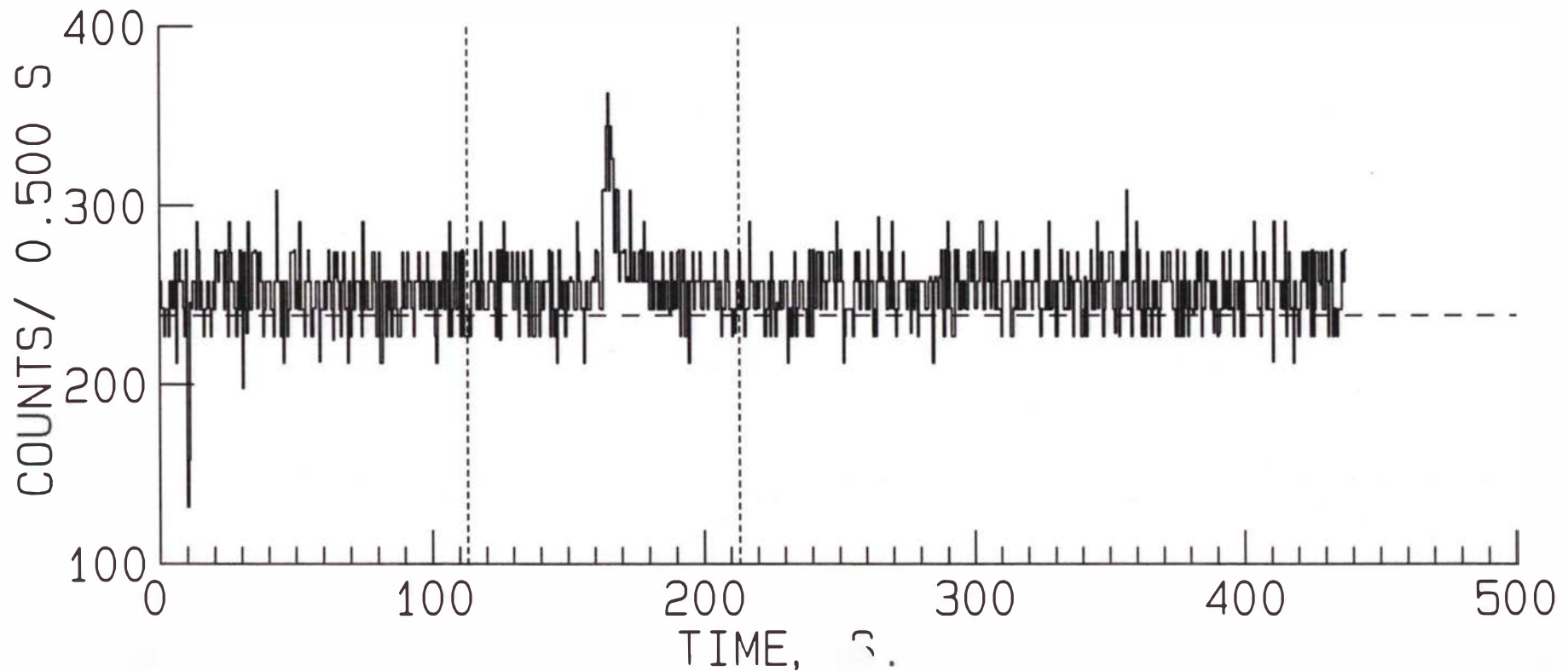
18 / 2 / 98

9 / 8 / 95 85566.604 s

0.250 S INTERVALS REGROUPED BY 2

21- 142 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



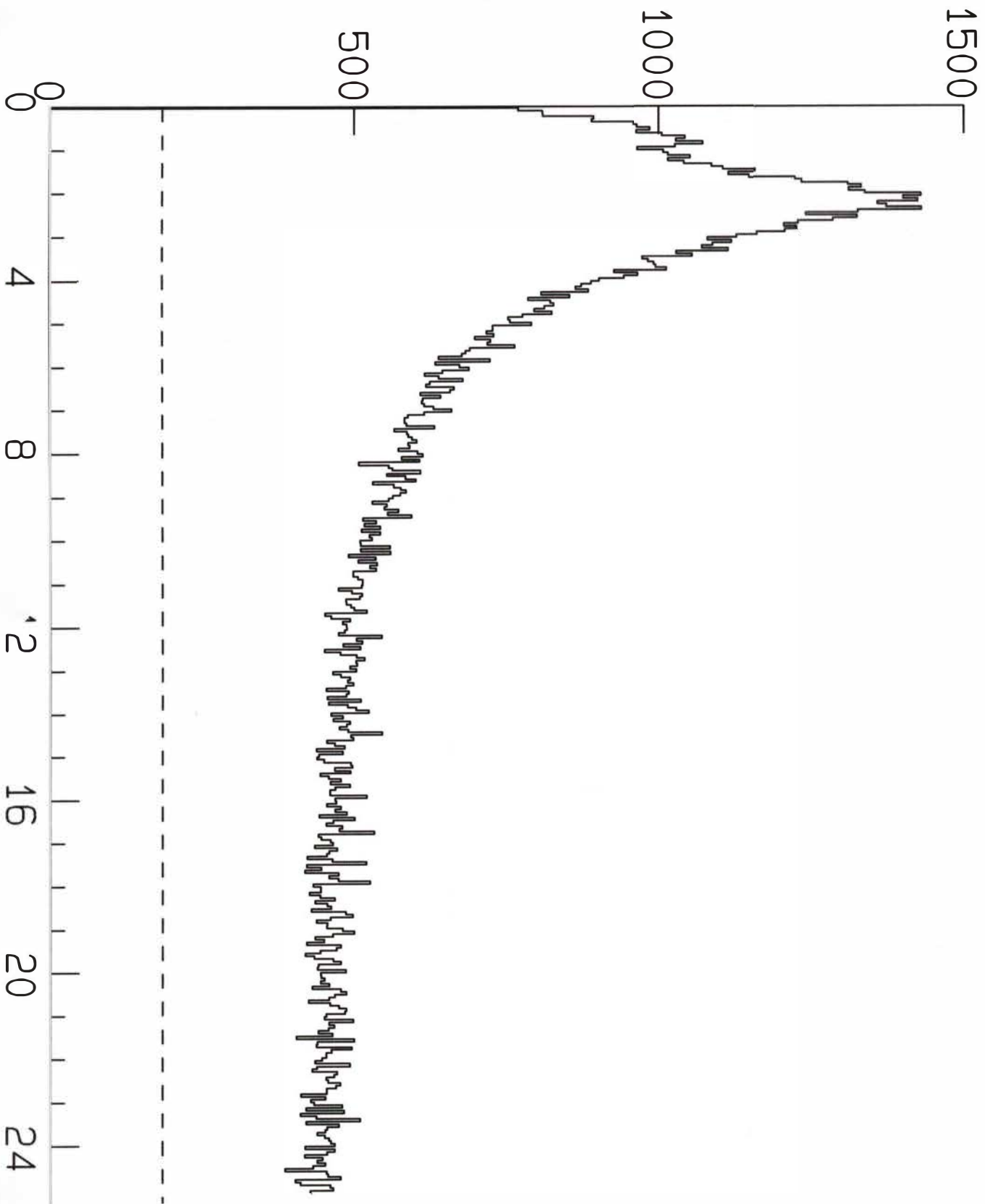
BATSE

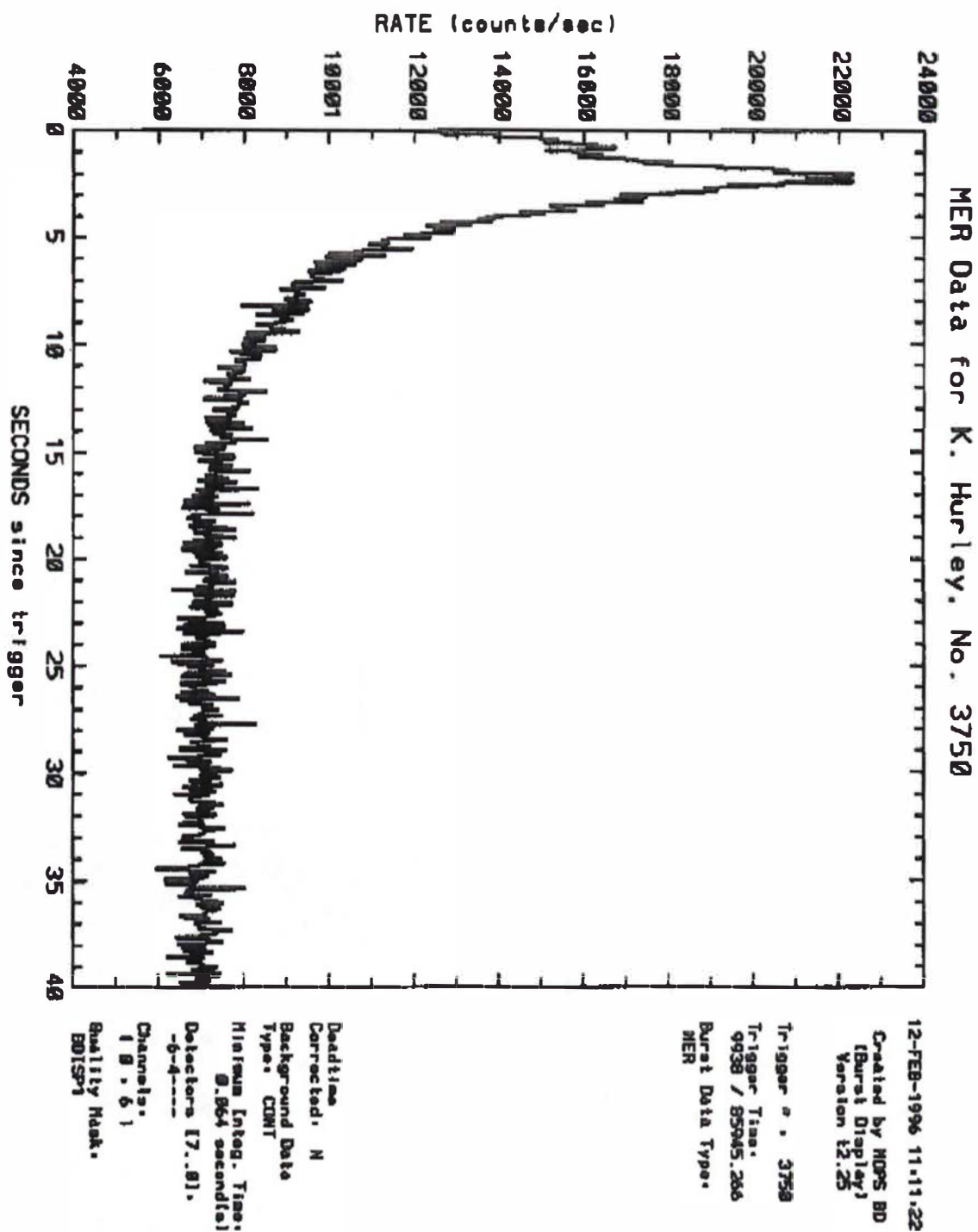
09/08/95

85945.266

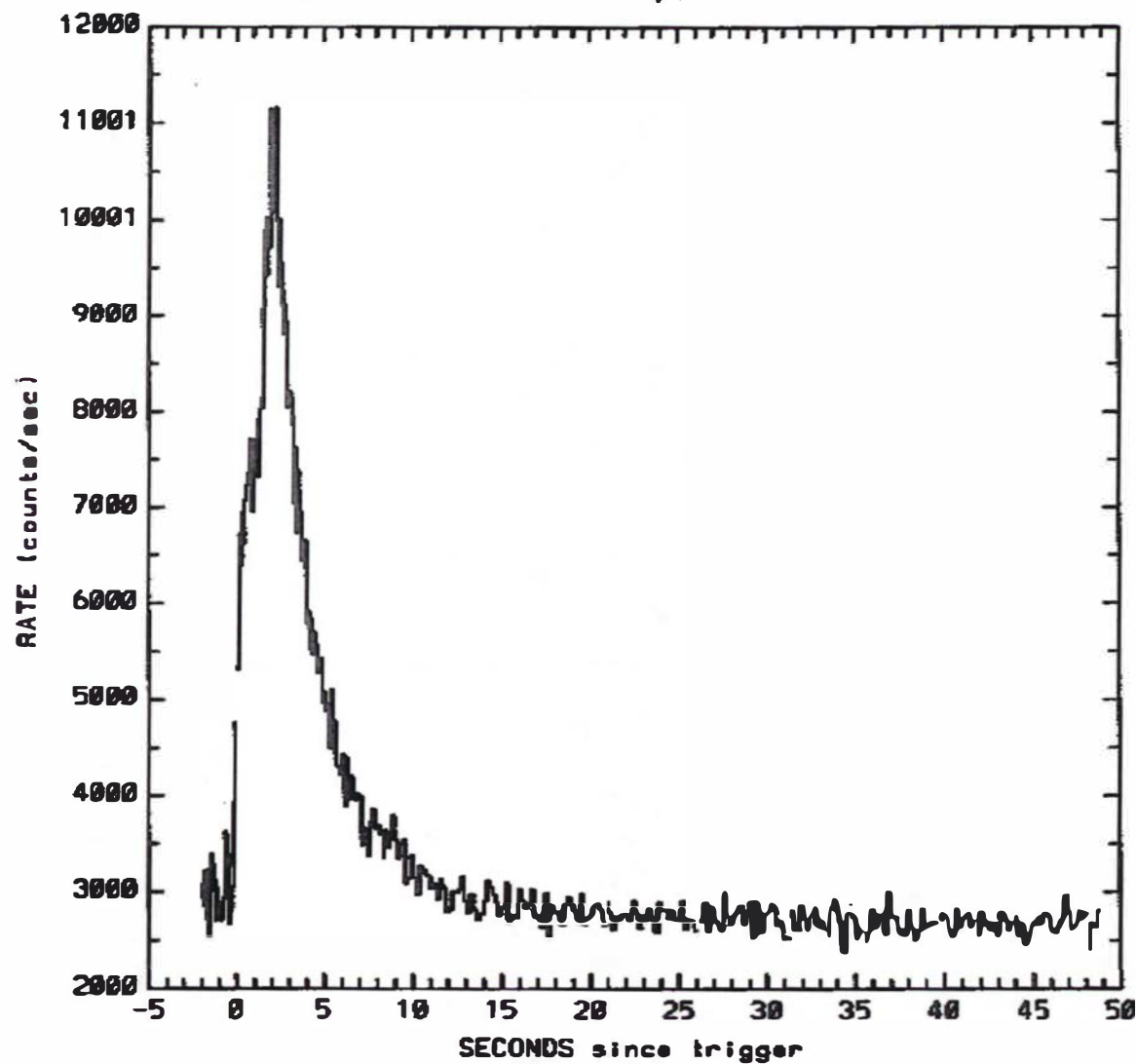
25- 100 keV

COUNTS/0.028 S





TTS Data for K. Hurley, No. 3750



12-FEB-1996 11:12:33

Created by MOPS 90
(Burst Display)
Version 12.25

Trigger #: 3750

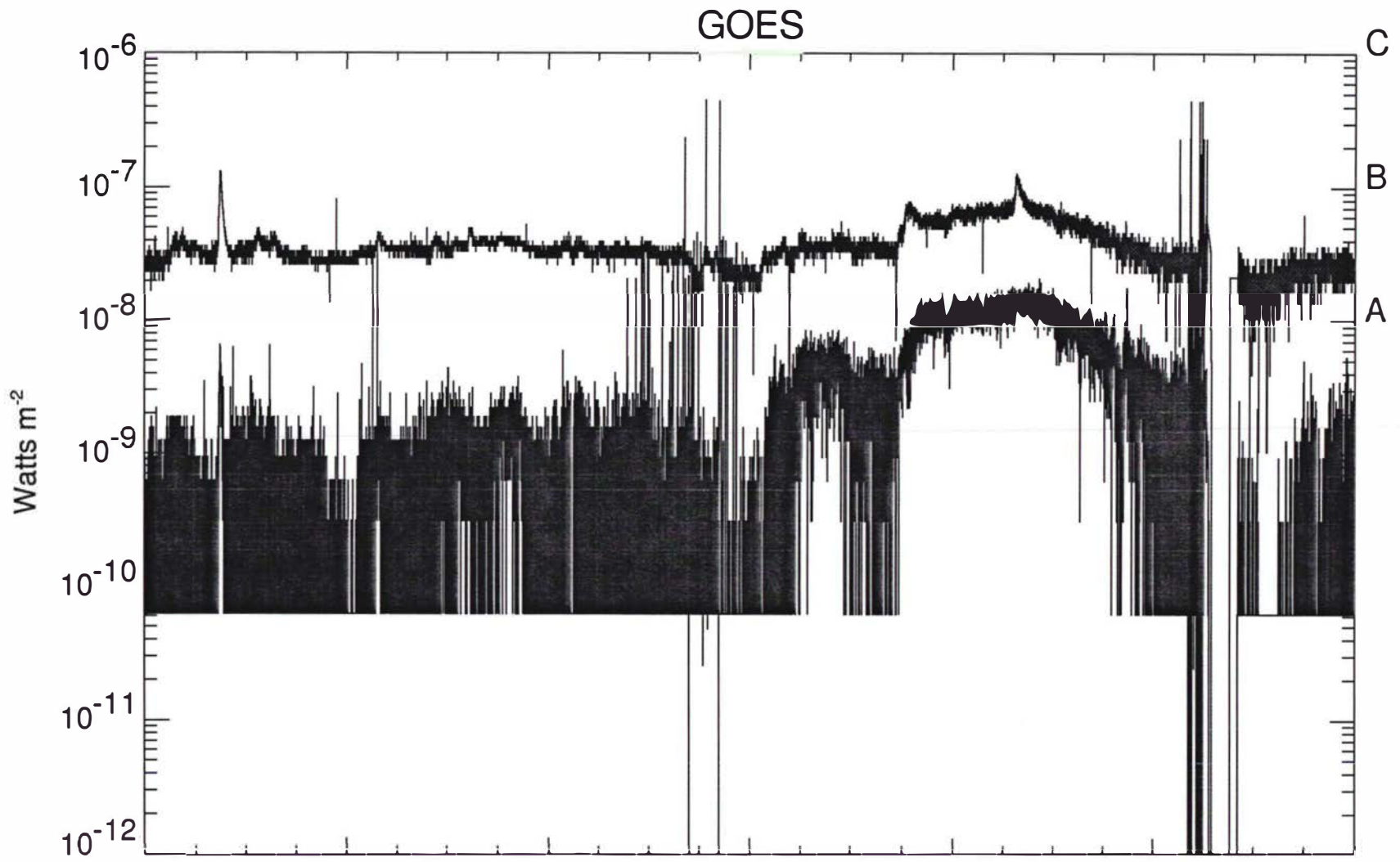
Trigger Time:
9938 / 85945.266Burst Data Type:
TTS

Time Corrected: Y

Maximum Time Error:
0.05485 second(s)Deadtime
Corrected: NBackground Data
Type: PREB + DISCLA

Bin Count: 8

Detectors [7..8]:
-6-4---Discriminators:
1 2 . 2 1Quality Mask:
BDISP1

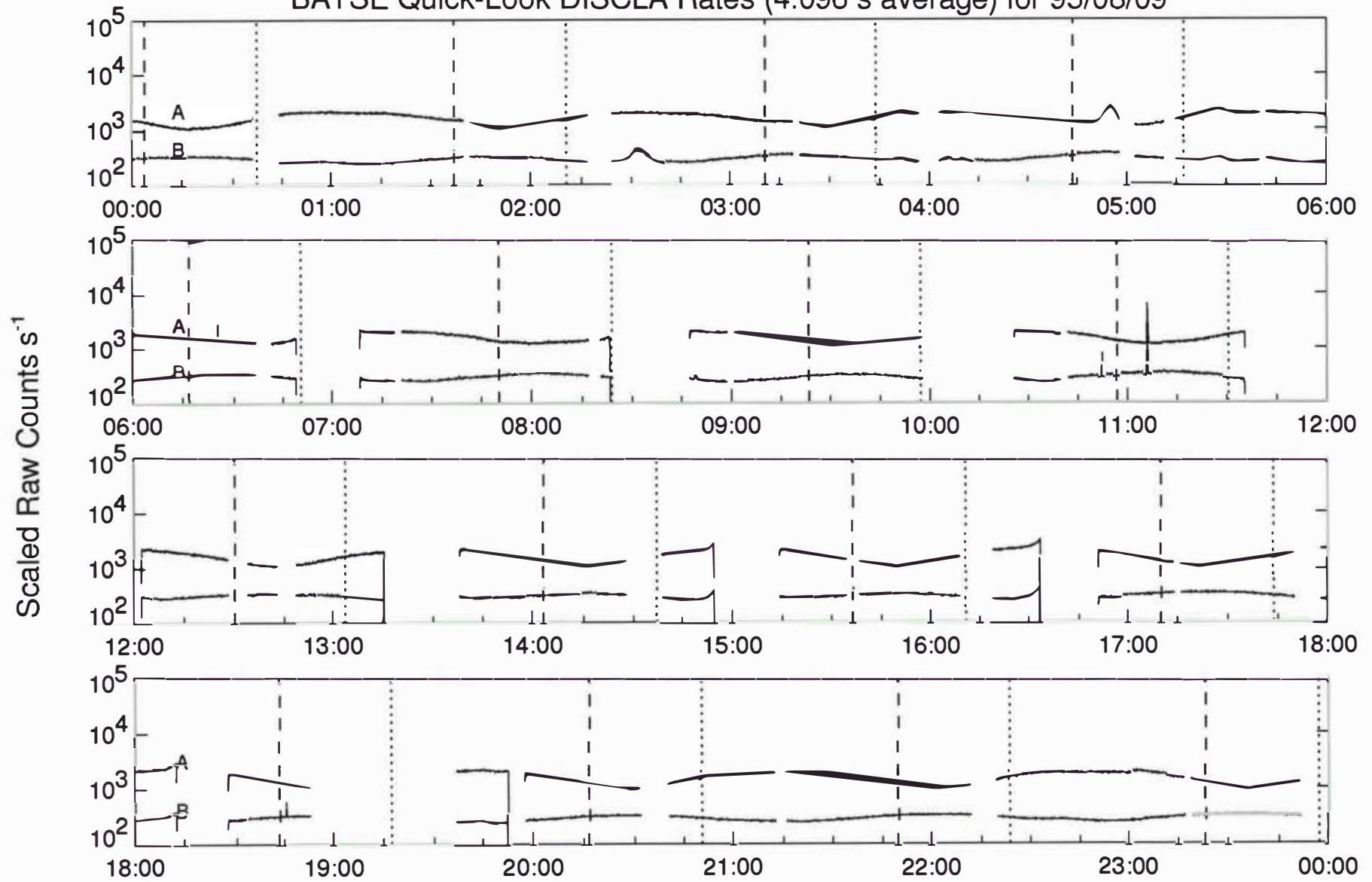


Data Start: 95/08/09, 0000:01 Plot created: 95/08/11, 0529

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 95/08/09



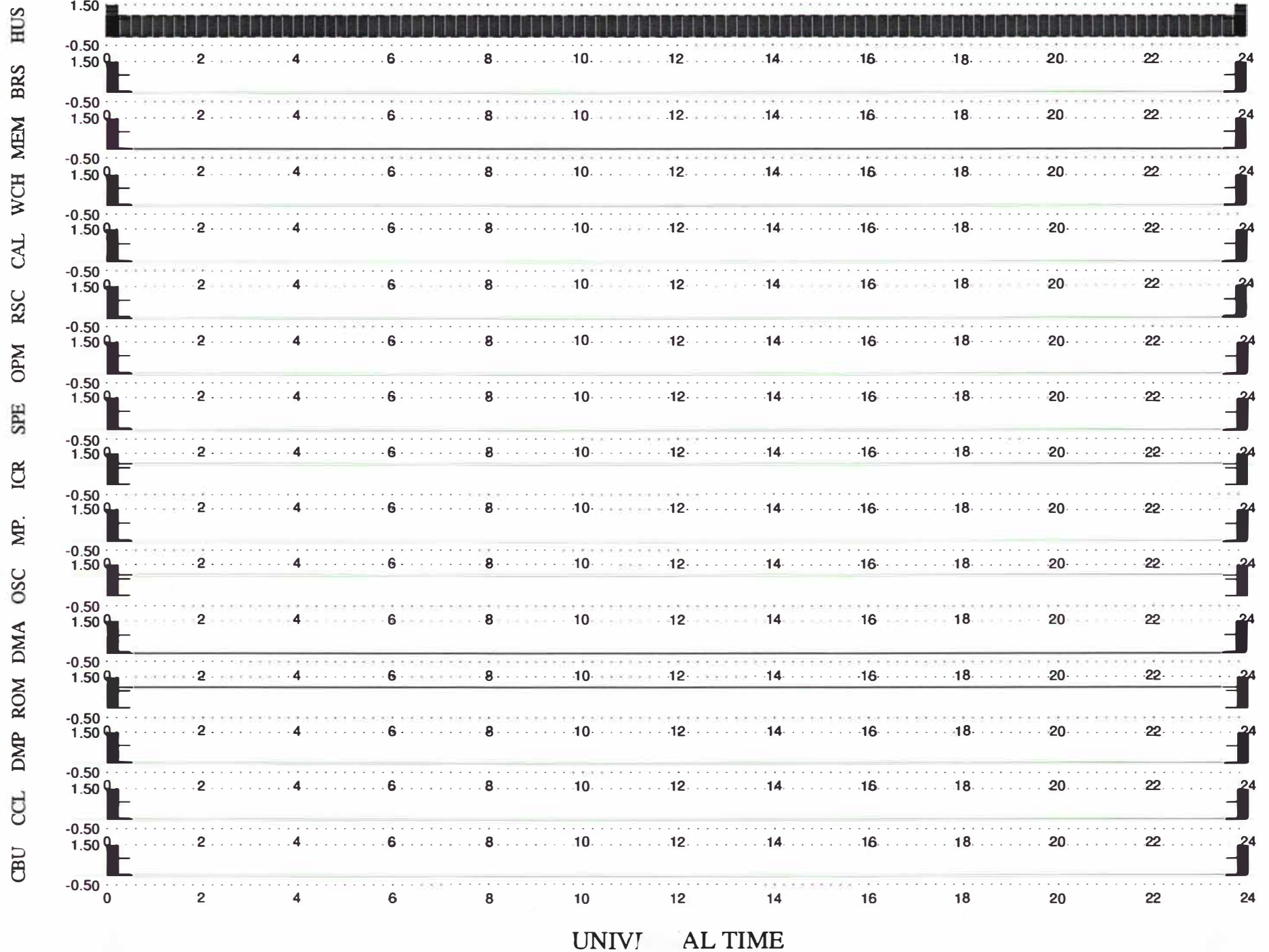
Current Time: 95/08/11, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

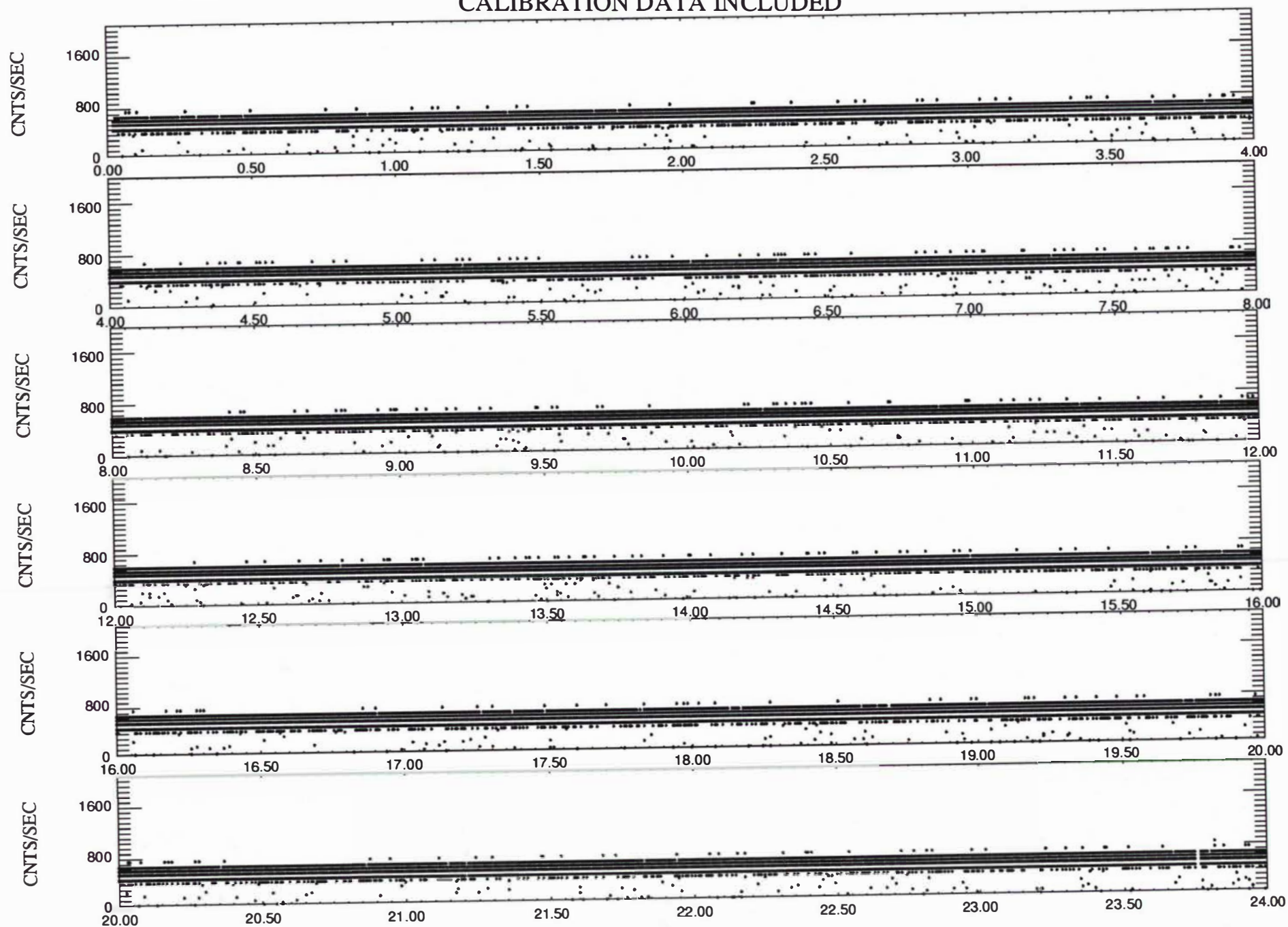
day 221, year 1995 to day 221, year 1995
NO BURST (8)

1/25/96

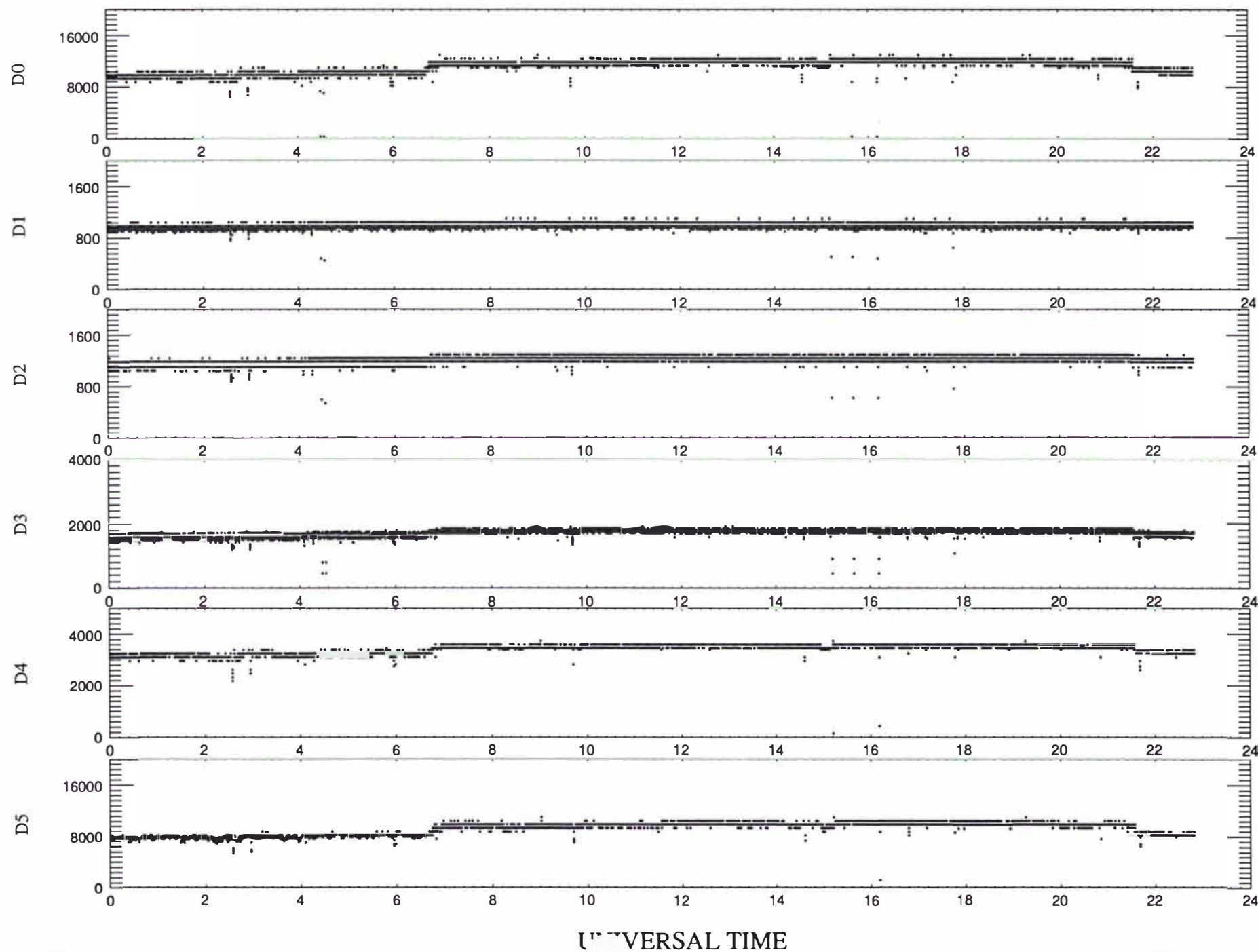


HUS 2A, MODE 1, NOT AVERAGED EDR day 221, year 1995 to day 221, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From HAGEDON@fender.msfc.nasa.gov Mon Aug 14 10:17 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 14 Aug 1995 12:17:41 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3751

BATSEARCH PROGRAM

BATSE BURST # 3751
EVENT OF 1995 AUG 10 DAY OF YEAR=222
EVENT CROSSING TIME AT BATSE : 10808. S. OR 03:00:08.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 30.000 6.000
BATSE PEAK COUNTING RATE: 9000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 10/ 8/ 95 IS:
RA= 166.196 DEC= 78.424 DIST= 2.322 AU
BATSE-ULYSSES DISTANCE = 347345452. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 87.61 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 48.23 SECS.
CROSSING TIME AT ULYSSES IS 10856. S. OR 03:00:56 +/- 251.71 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 10/ 8/ 95 IS:
RA= 190.972 DEC= -4.555 DIST= 1.909 AU
MARS-BATSE DISTANCE = 285660448. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 19.00 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 900.94 SECS.
CROSSING TIME AT MARS IS 11709. S. OR 03:15:08 +/- 67.54 SECONDS

BATSE BURST TRIGGER
NO.: 3751

TIME: TJD=9939 SECONDS=10808

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=53.8 AZIMUTH=172.6 ERROR=4.27 DEGREES

COMMENTS:

BURST. SINGLE SPIKE WITH SOME SUBSTRUCTURE. DUR.~1 SEC.
VISIBLE ABOVE 300 KEV.
LOCATION ERROR STATED IS STATISTICAL. ADD 1.5 DEG SYSTEMATIC ERROR.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3751	950810	9939	10808	9000	030	+06	1

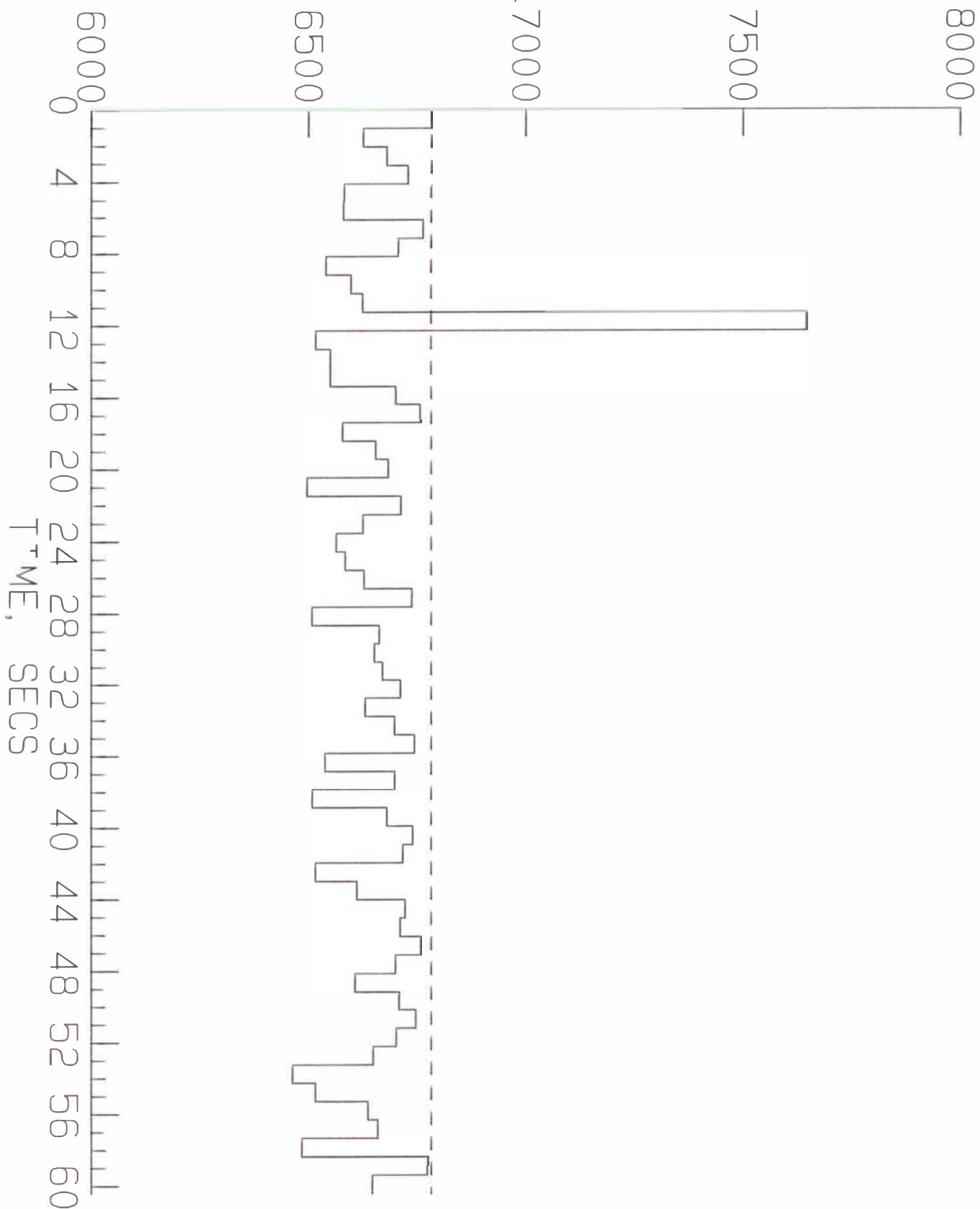
BACODINE

10/08/95

10796.721

25- 100 keV

COUNTS/1.024 S



BATSE BURST# 3751

12 / 2 / 96

ULYSSES RT

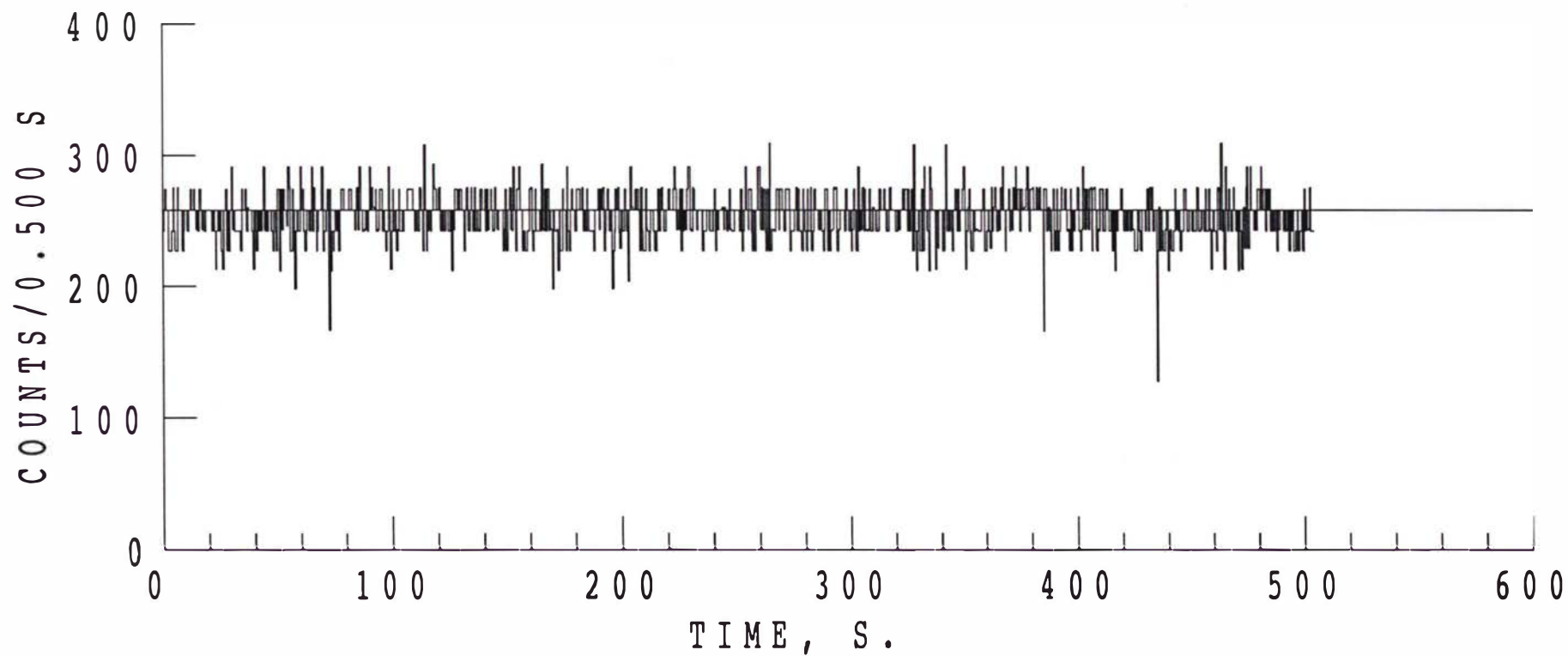
10 / 8 / 95 10368.046 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



BATSE BURST# 3751

12 / 2 / 96

ULYSSES RT

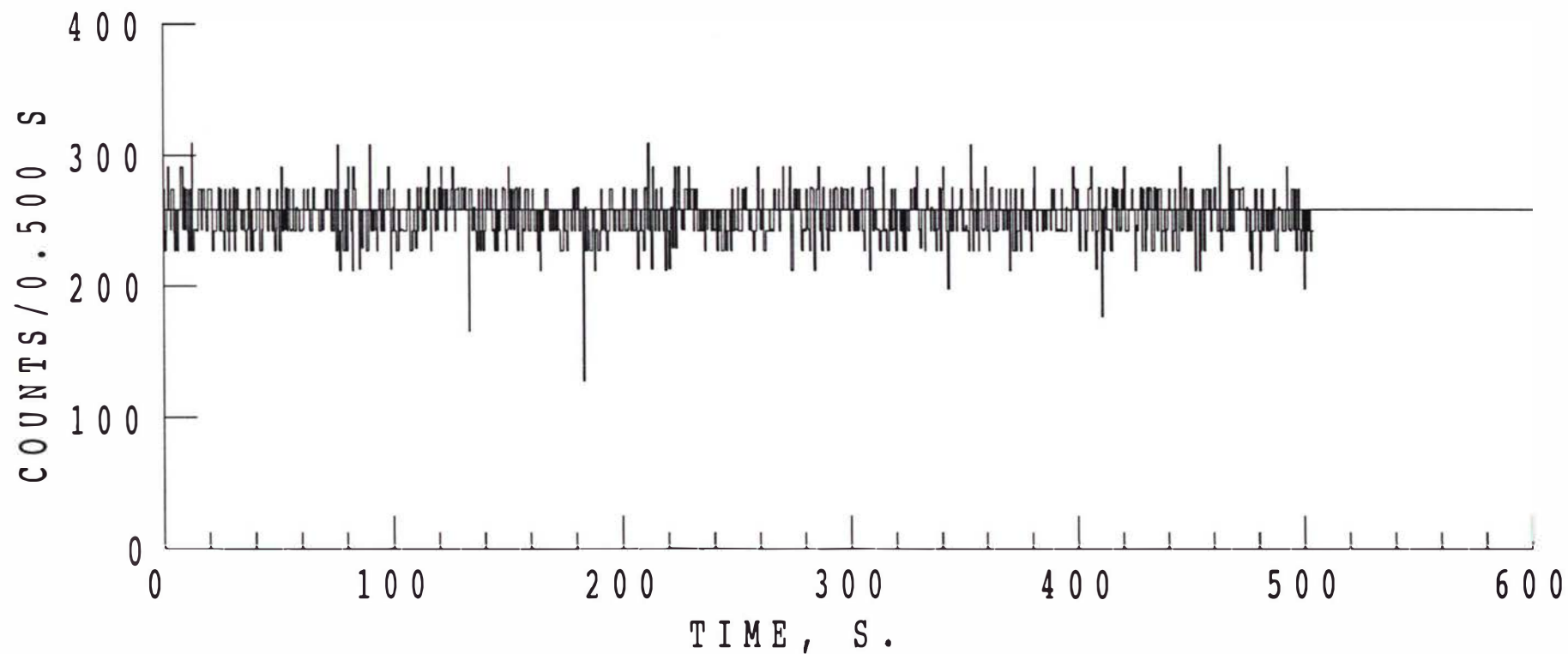
10 / 8 / 95 10620.051 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From HAGEDON@fender.msfc.nasa.gov Mon Aug 14 10:06 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 14 Aug 1995 12:06:28 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3752

TIME: TJD=9939 SECONDS=15175

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION. DUR.~7 SEC. NOT VISIBLE ABOVE 300 KEV.

BATSE BURST# 3752

12 / 2 / 96

ULYSSES RT

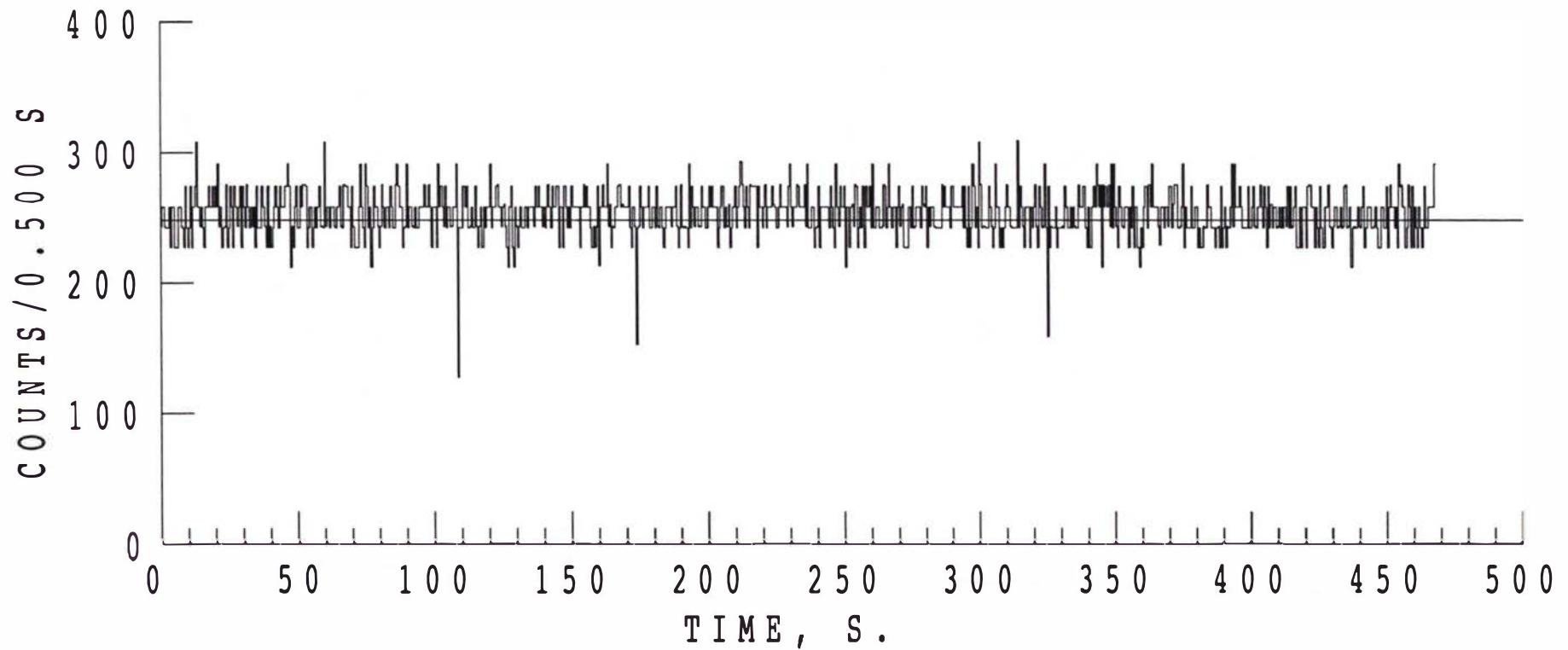
10 / 8 / 95 14616.122 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 N= 2

>4.0 SIGMA FLUCTUATIONS



From HAGEDON@fender.msfc.nasa.gov Mon Aug 14 10:09 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 14 Aug 1995 12:08:48 -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,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3753

TIME: TJD=9939 SECONDS=17176

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@fender.msfc.nasa.gov Mon Aug 14 10:11 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 14 Aug 1995 12:11:08 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3754

TIME: TJD=9939 SECONDS=67024

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

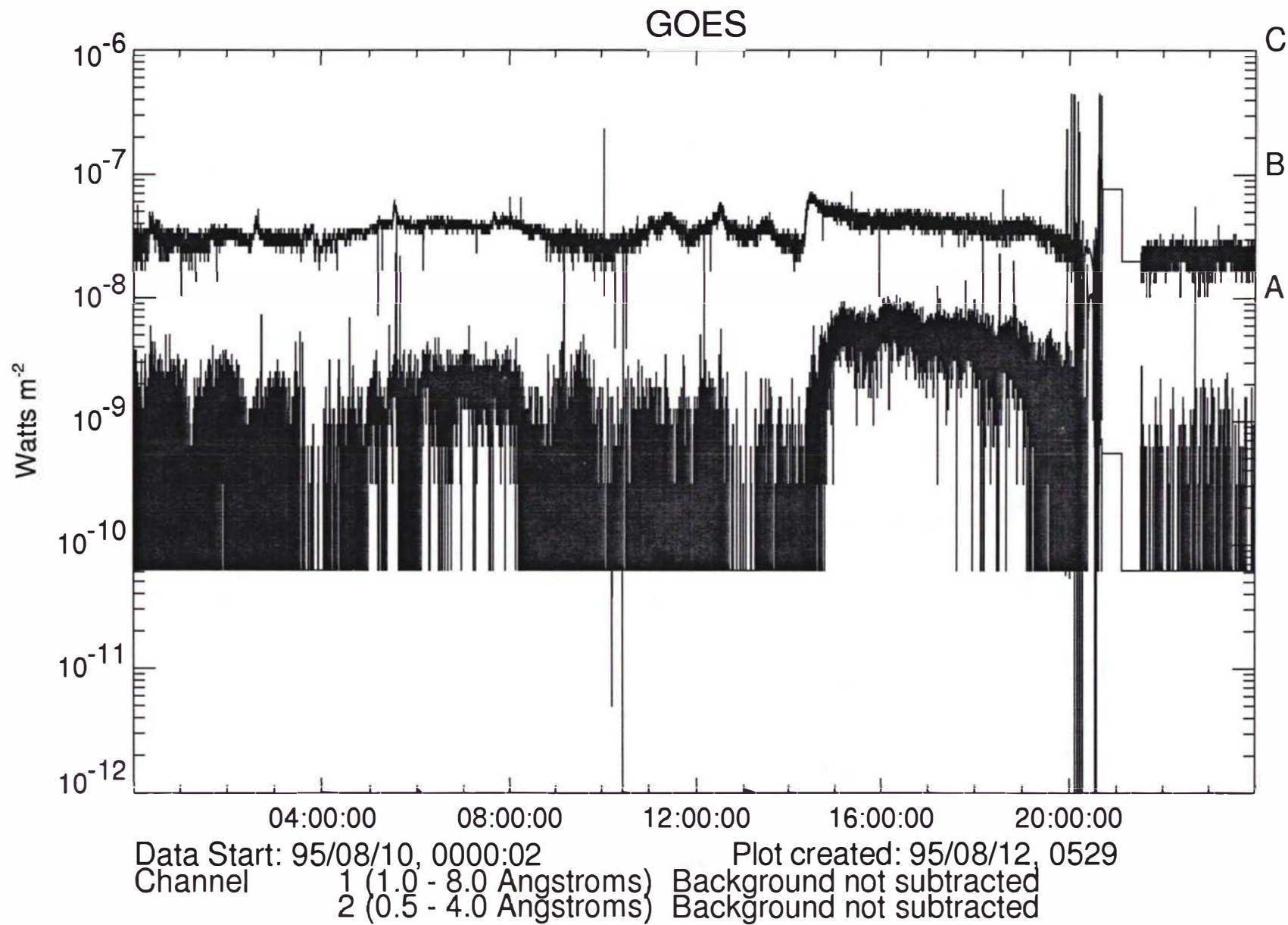
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

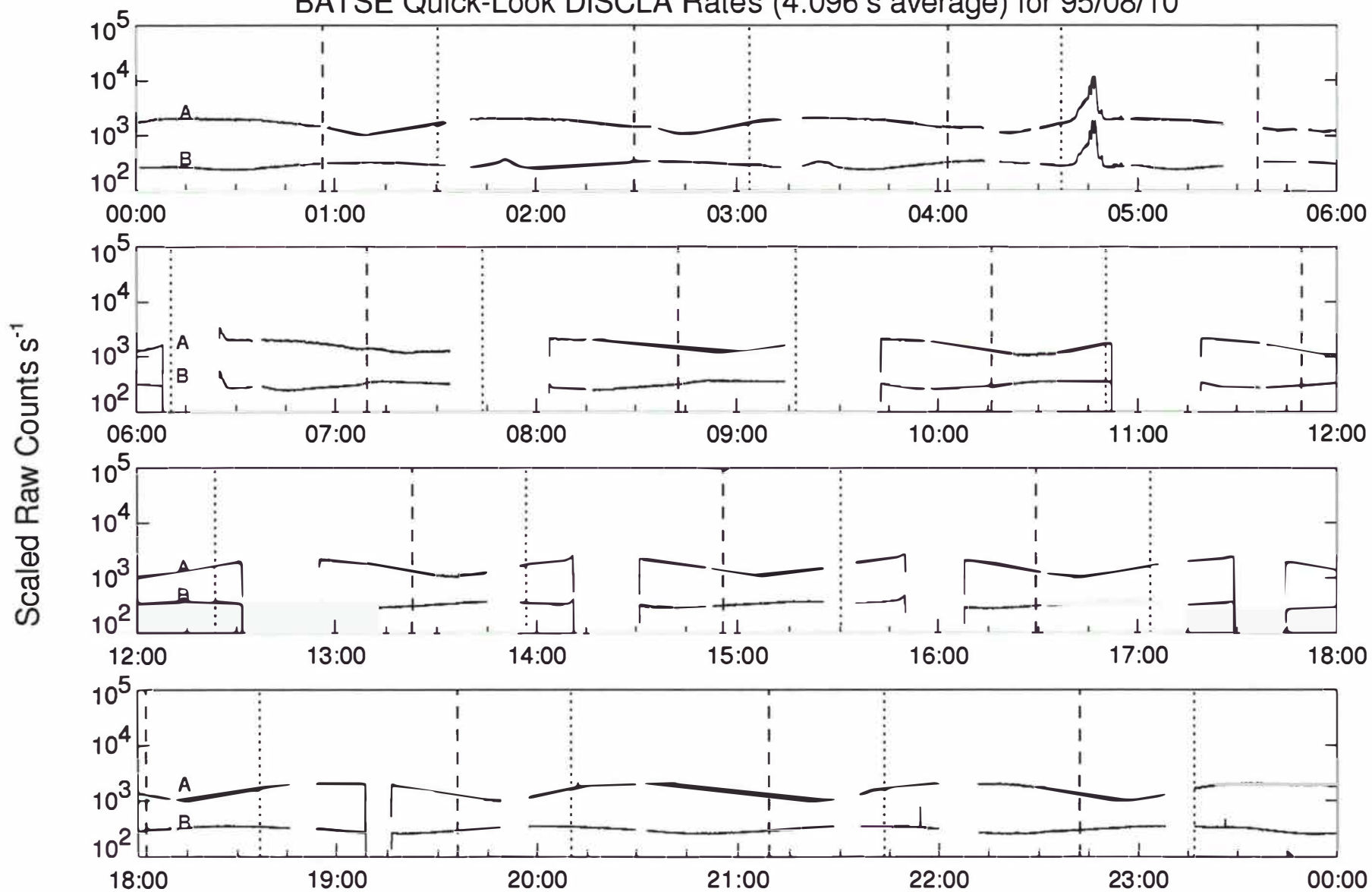
LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION. DUR.~8 SEC. NOT VISIBLE ABOVE 300 KEV.



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/10



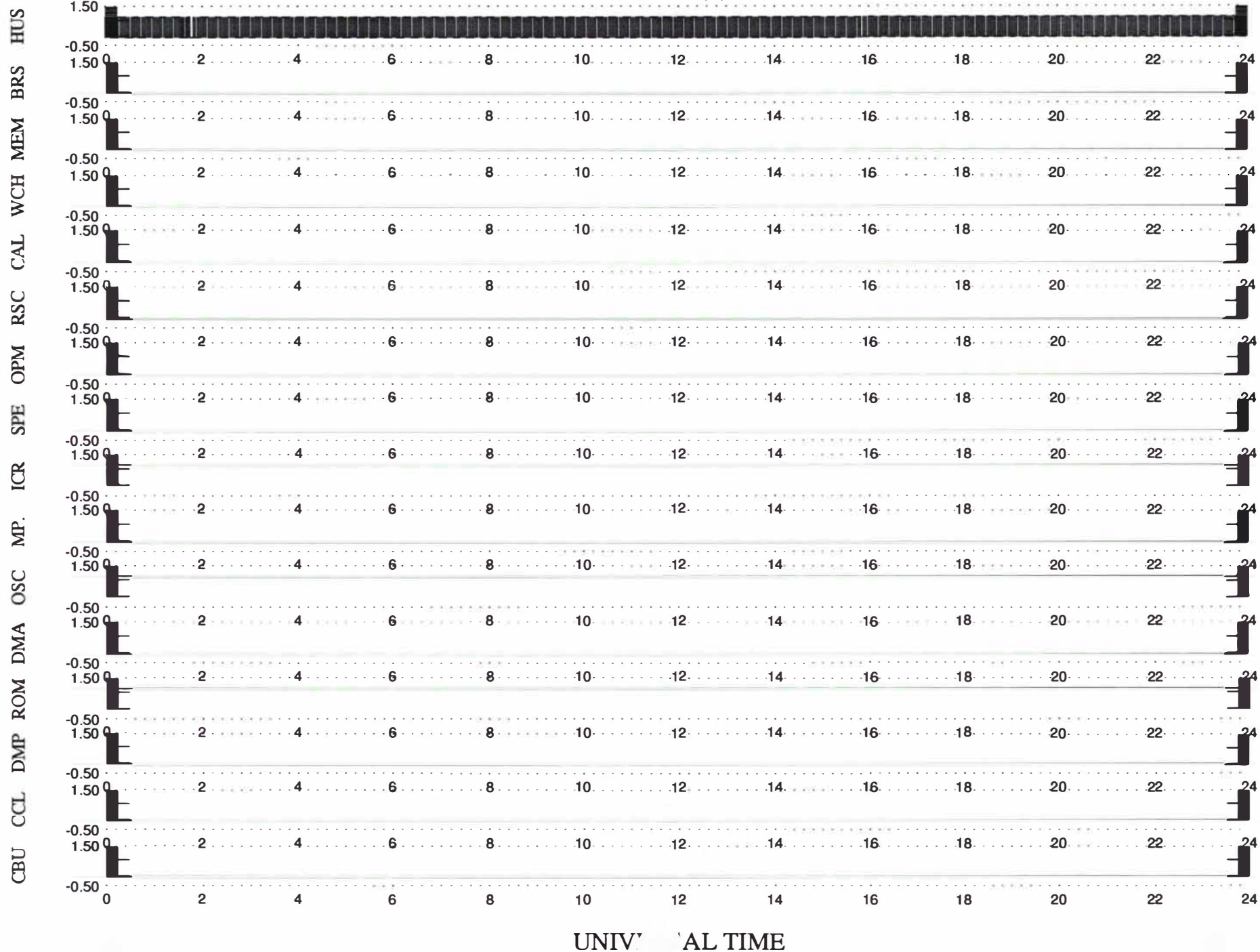
Current Time: 95/08/12, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

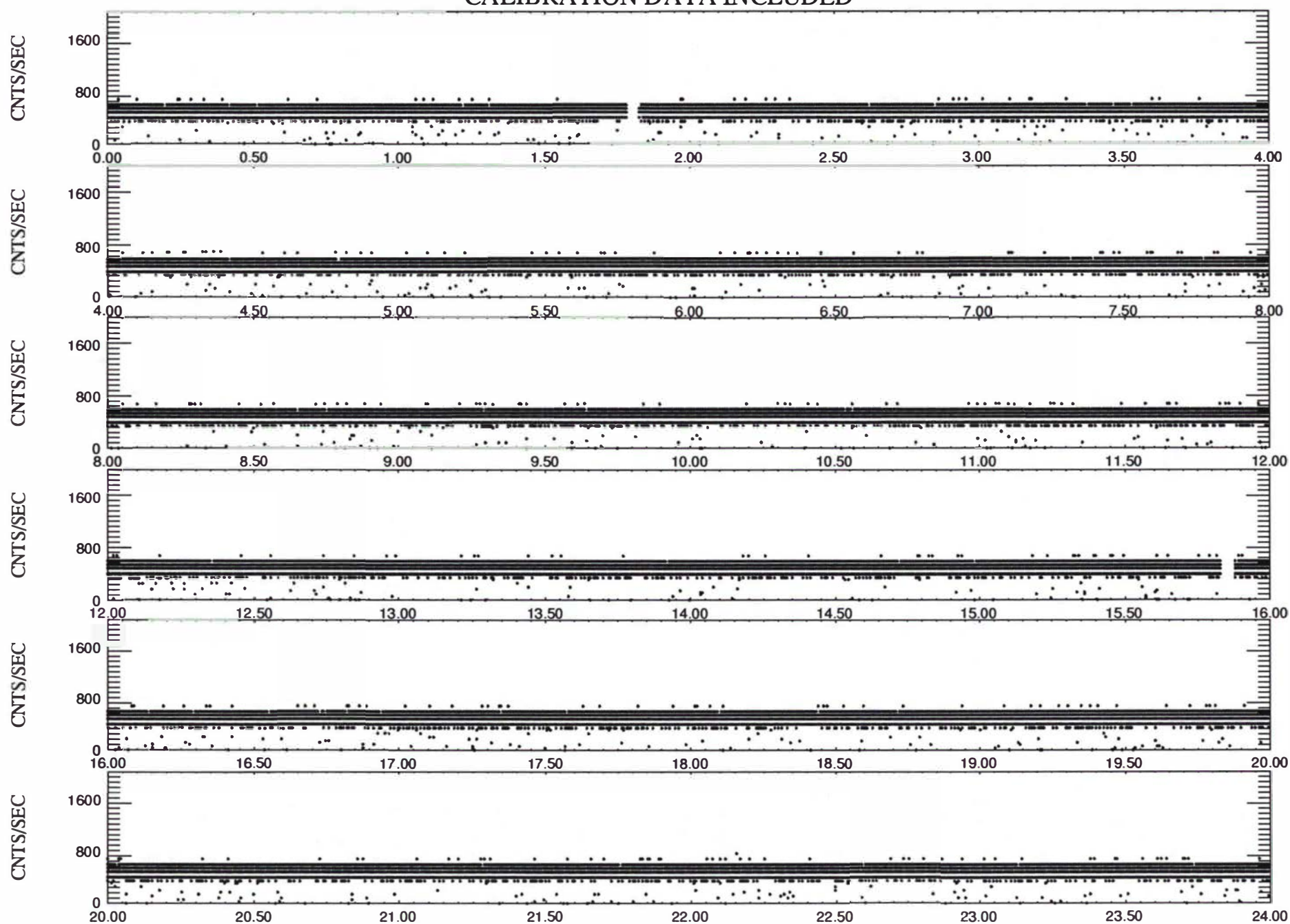
HUS MODES EDR day 222, year 1995 to day 222, year 1995
NO BURST (8)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 222, year 1995 to day 222, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME

From HENZE@fender.msfc.nasa.gov Mon Aug 14 12:07 PDT 1995
From: HENZE@fender.msfc.nasa.gov
Date: Mon, 14 Aug 1995 14:07:34 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03755

TIME: TJD=9940 SECONDS=62055

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION.

From HENZE@fender.msfc.nasa.gov Mon Aug 14 12:11 PDT 1995
From: HENZE@fender.msfc.nasa.gov
Date: Mon, 14 Aug 1995 14:10:51 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03756

TIME: TJD=9940 SECONDS=79516

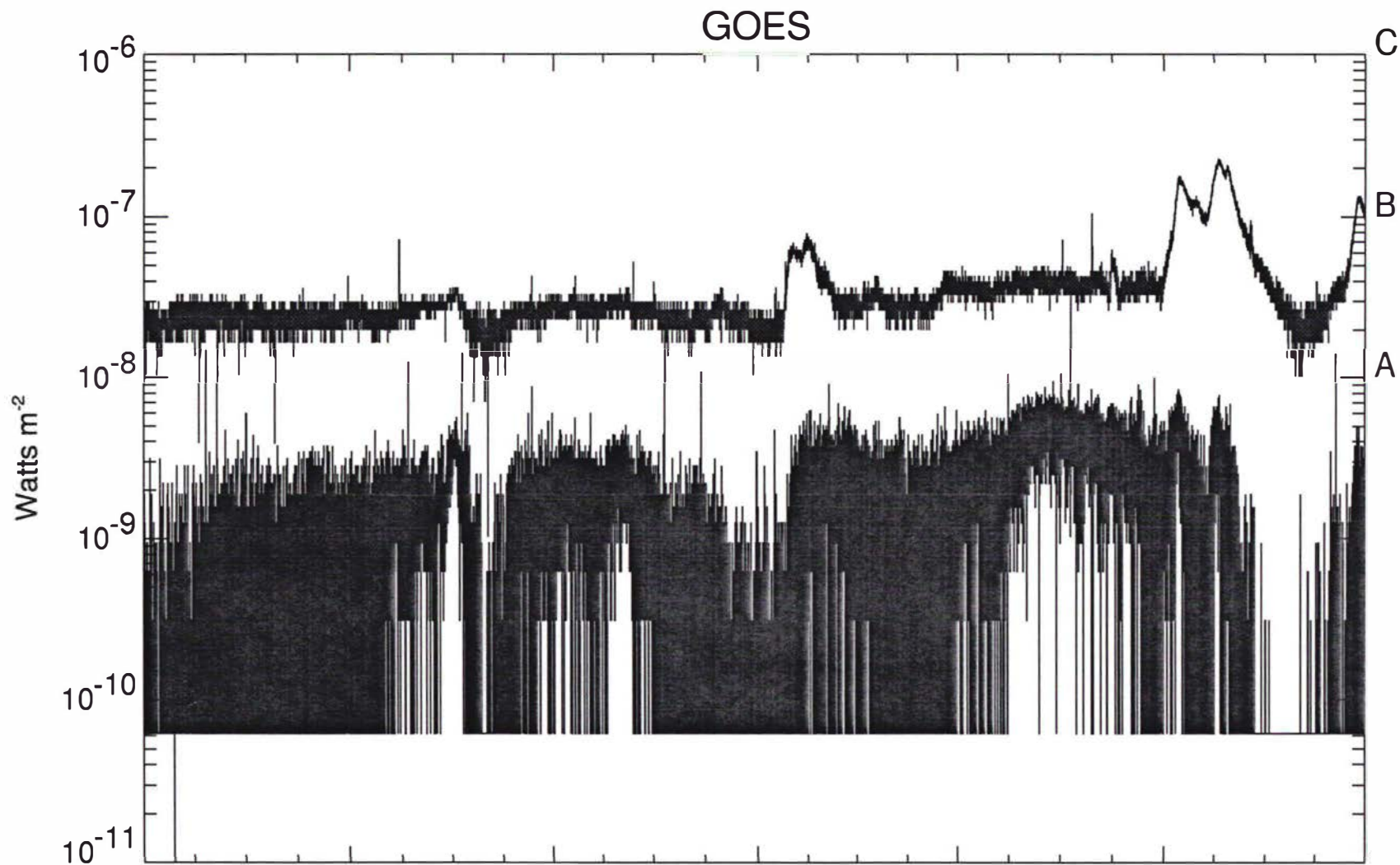
TYPE: CYG X-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
CYG X-1 FLUCTUATIONS.



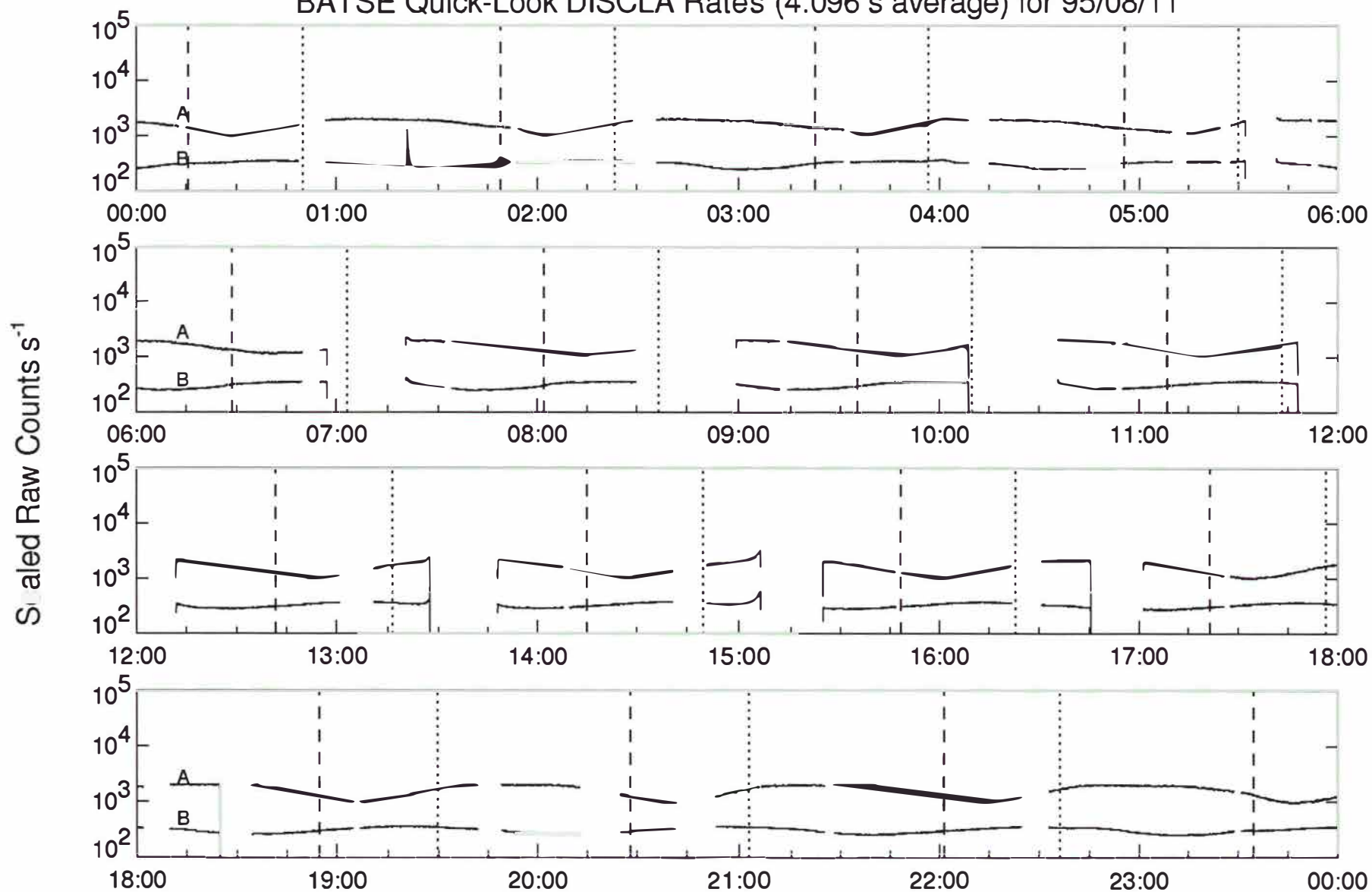
Data Start: 95/08/11, 0000:00

Plot created: 95/08/13, 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 95/08/11



Current Time: 95/08/13, 0530 EDT

A: Channel 0 Most Sunward LAD

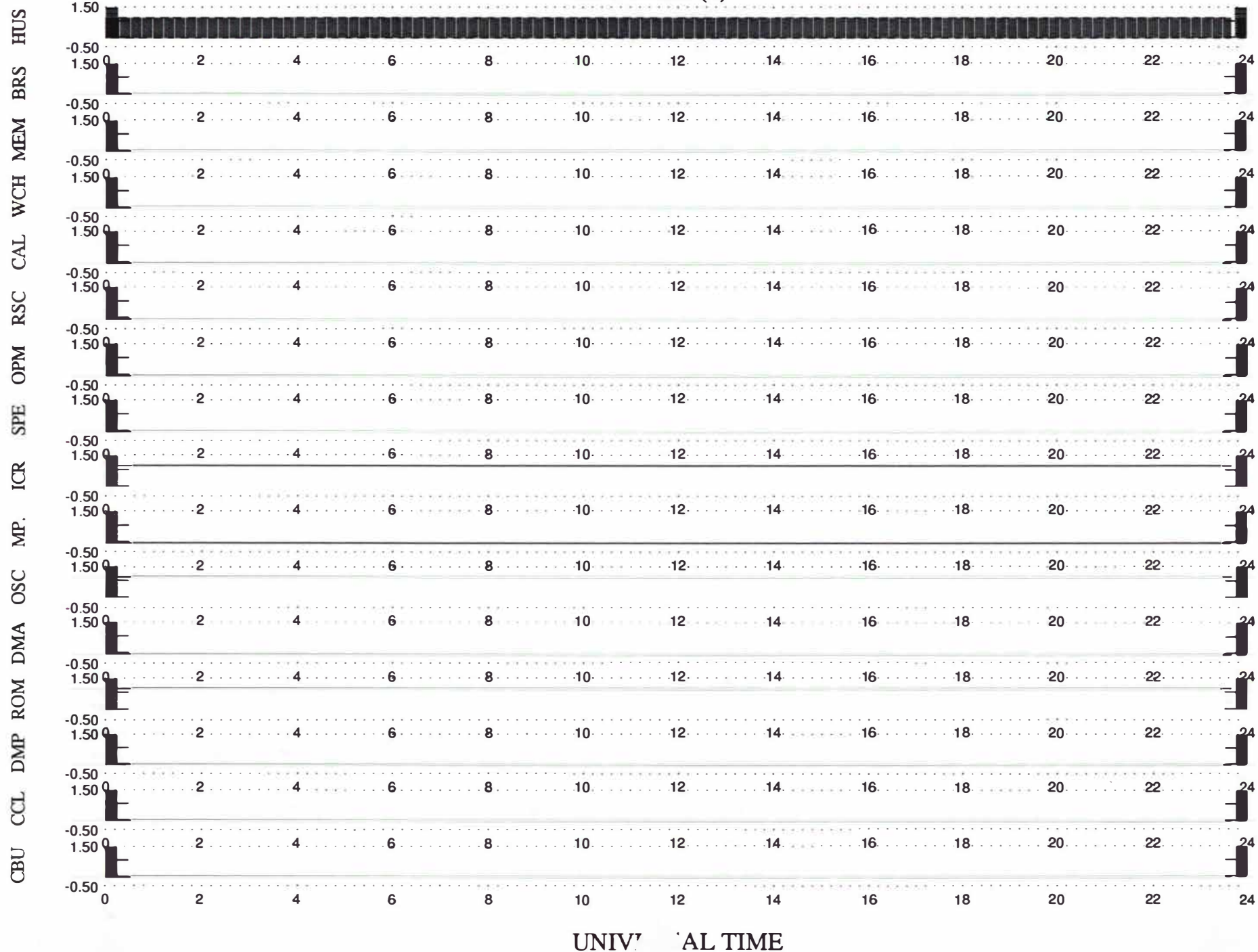
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

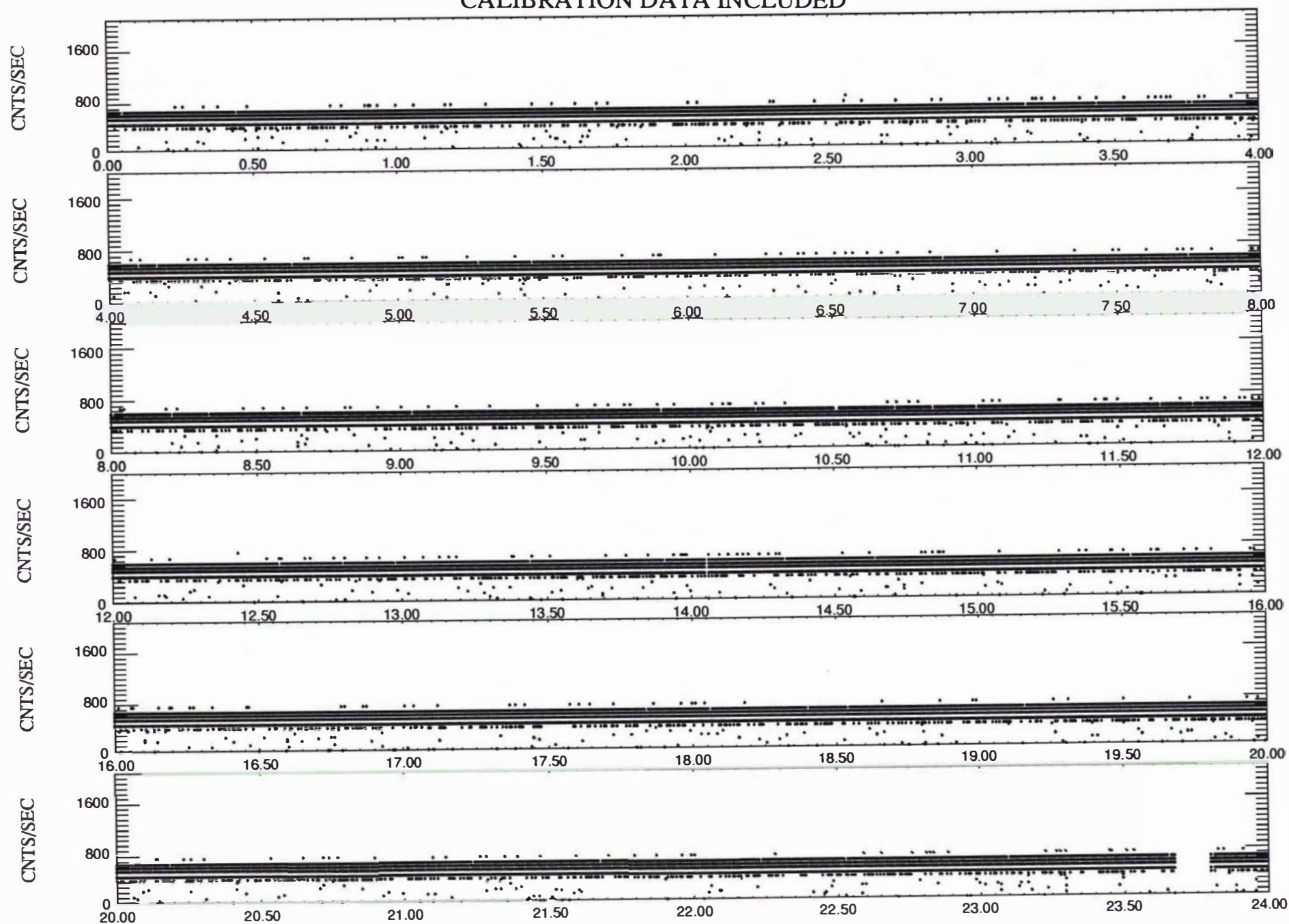
HUS MODES EDR day 223, year 1995 to day 223, year 1995
NO BURST (8)

1/25/96

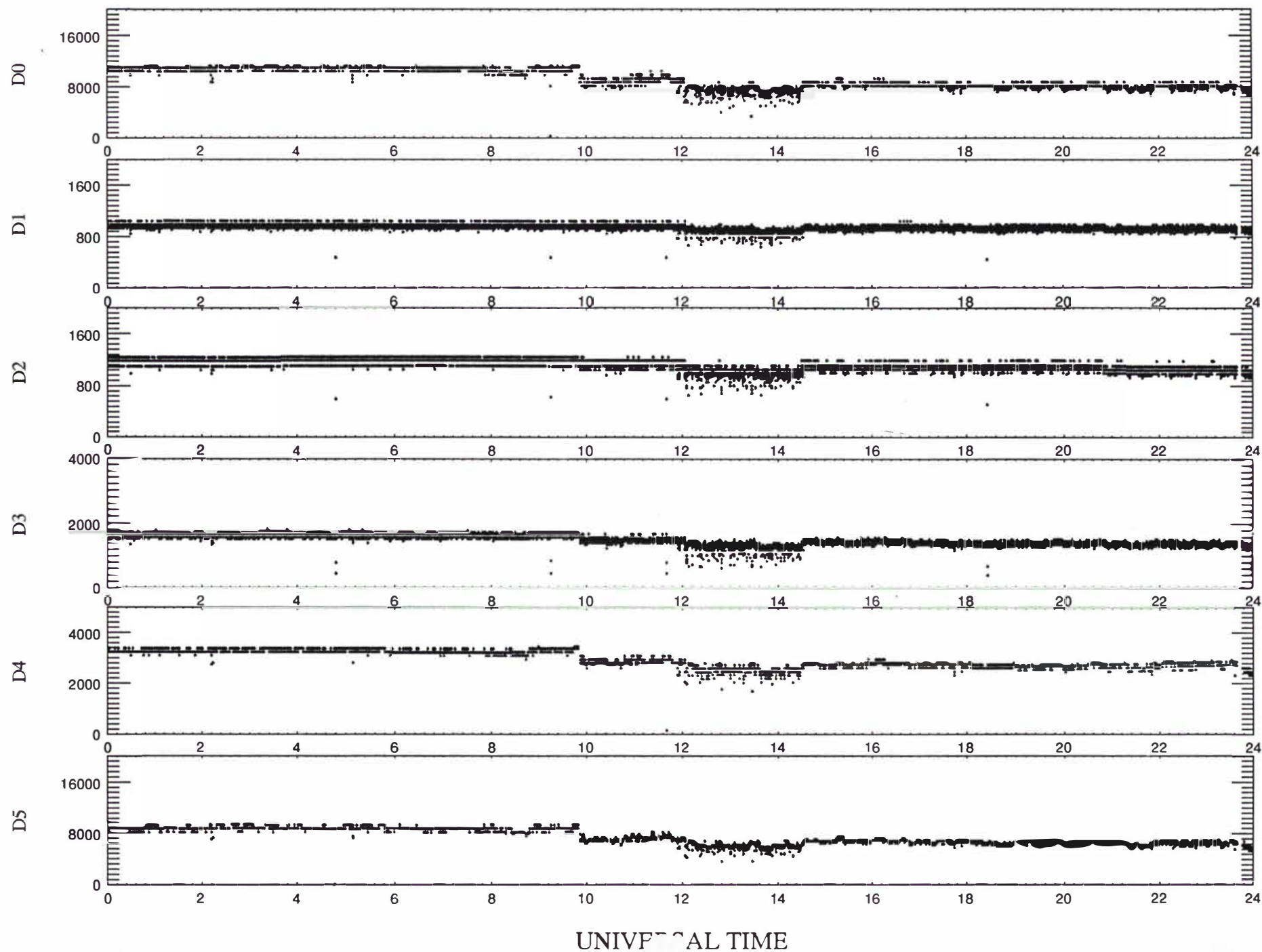


HUS 2A, MODE 1, NOT AVERAGED EDR day 223, year 1995 to day 223, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV'AL TIME



From DEAL@SSLLES.MSFC.NASA.GOV Mon Aug 14 11:22 PDT 1995
Date: Mon, 14 Aug 1995 13:21:51 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3757

TIME: TJD=9941 SECONDS=39562

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=113.8 AZIMUTH=109.6 ERROR=2.6 DEGREES

COMMENTS:

CYG X-1 FLUCTUATION LASTING ~ 38 S. ABOVE ERROR IS STATISTICAL.
ADD 1.5 FOR SYSTEMATIC.

From DEAL@ssl.msfc.nasa.gov Mon Aug 14 10:43 PDT 1995
From: DEAL@ssl.msfc.nasa.gov
Date: Mon, 14 Aug 1995 12:43:39 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3758

BATSEARCH PROGRAM

BATSE BURST # 3758
EVENT OF 1995 AUG 12 DAY OF YEAR=224
EVENT CROSSING TIME AT BATSE : 56528. S. OR 15:42:08.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 58.000 4.000
BATSE PEAK COUNTING RATE: 2300 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 12/ 8/ 95 IS:
RA= 170.185 DEC= 77.322 DIST= 2.343 AU
BATSE-ULYSSES DISTANCE = 350451585. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 89.16 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 17.09 SECS.
CROSSING TIME AT ULYSSES IS 56545. S. OR 15:42:25 +/- 253.19 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 12/ 8/ 95 IS:
RA= 192.111 DEC= -5.065 DIST= 1.921 AU
MARS-BATSE DISTANCE = 287324928. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 45.75 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 668.79 SECS.
CROSSING TIME AT MARS IS 57197. S. OR 15:53:16 +/- 129.34 SECONDS

BATSE BURST TRIGGER

NO.: 3758

TIME: TJD=9941 SECONDS=56528

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=30.7 AZIMUTH=196.1 ERROR=7.3 DEGREES

COMMENTS:

BURST LASTING ~ 18S. MARGINALLY VISIBLE ABOVE 300 KEV.
THE ABOVE ERROR IS STATISTICAL. FOR SYSTEMATIC ADD 1.5.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3758	950812	9941	56528	2300	058	+04	18

KONUS 19950812 39565

ULYSSES RT

27 / 08 / 11

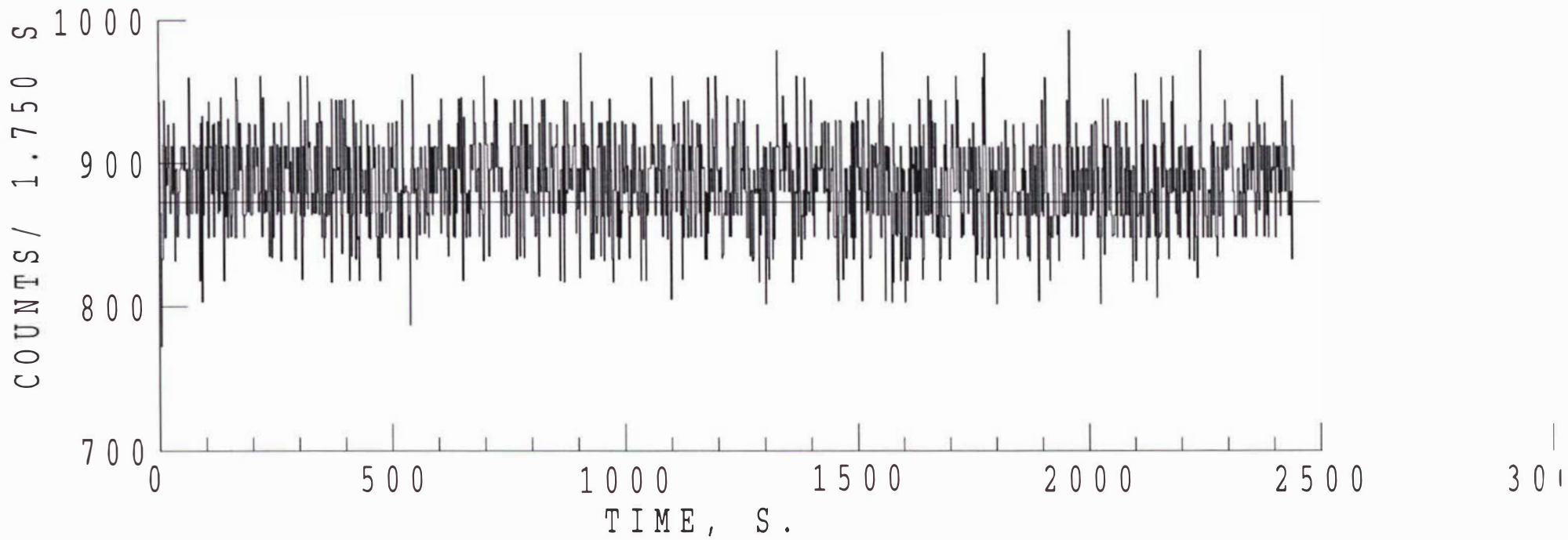
12/08/95 38340.152 s

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



14 / 8 / 95

ULYSSES RT

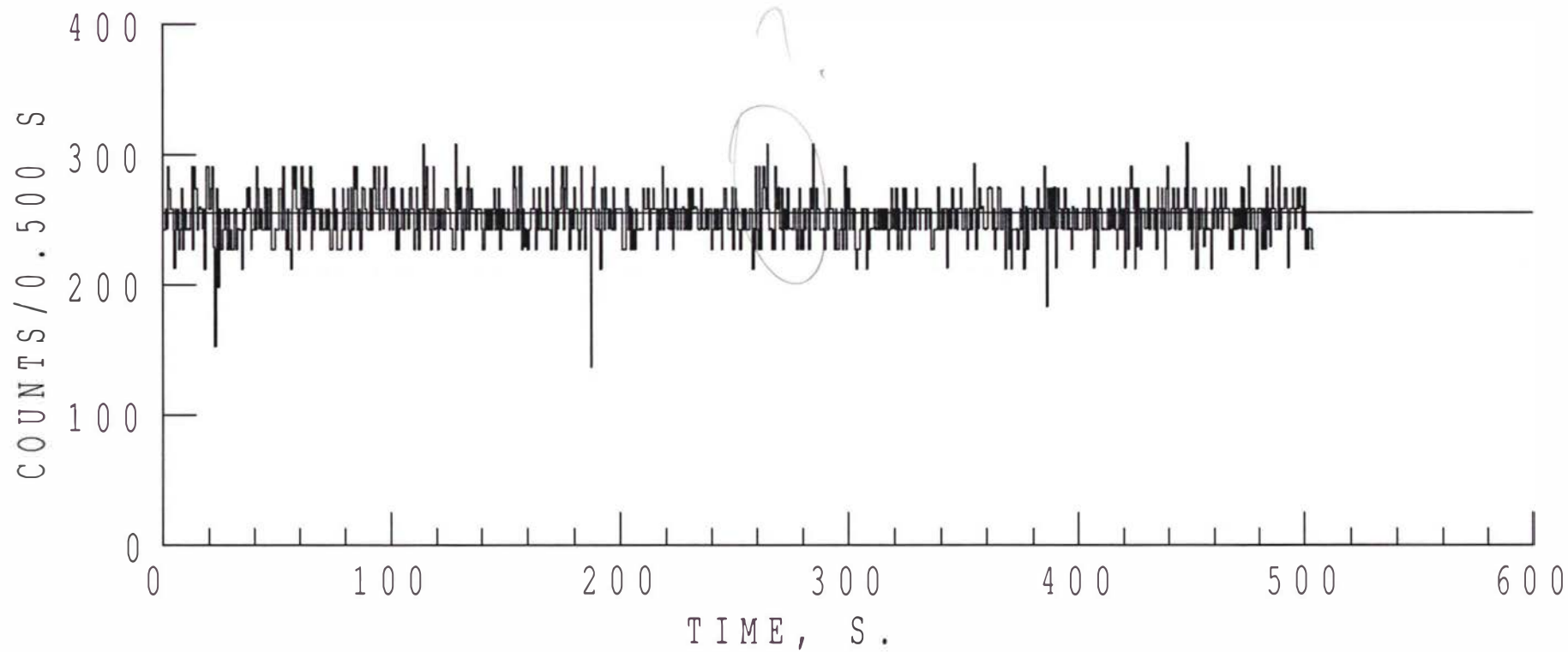
12 / 8 / 95 56304.203 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From DEAL@SSLLES.MSFC.NASA.GOV Mon Aug 14 10:40 PDT 1995
Date: Mon, 14 Aug 1995 12:40:25 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3759

TIME: TJD=9941 SECONDS=75873

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=109.6 AZIMUTH=97.3 ERROR=11.6 DEGREES

COMMENTS:

CYGNUS X-1 FLUCTUATION LASTING ~ 45 S. ABOVE ERROR IS STATISTICAL.
ADD 1.5 FOR SYSTEMATIC.

KONUS 19950812 78543

ULYSSES RT

27 / 08 / 11

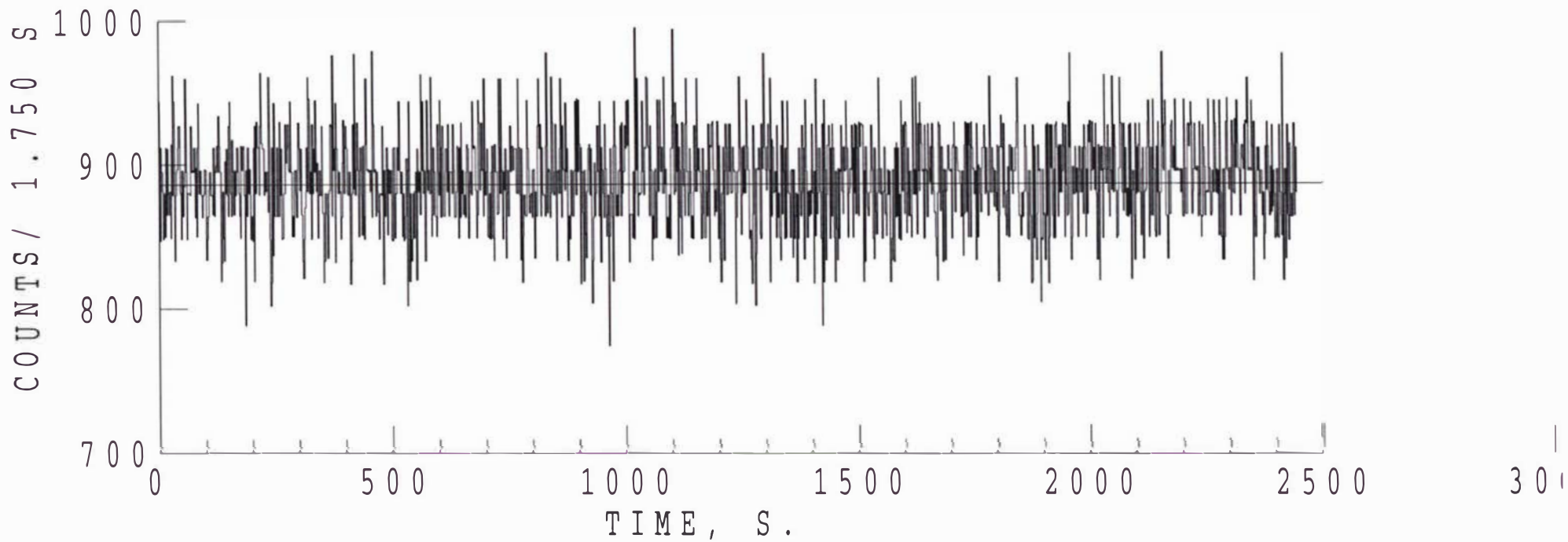
12/08/95 77328.062 s

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



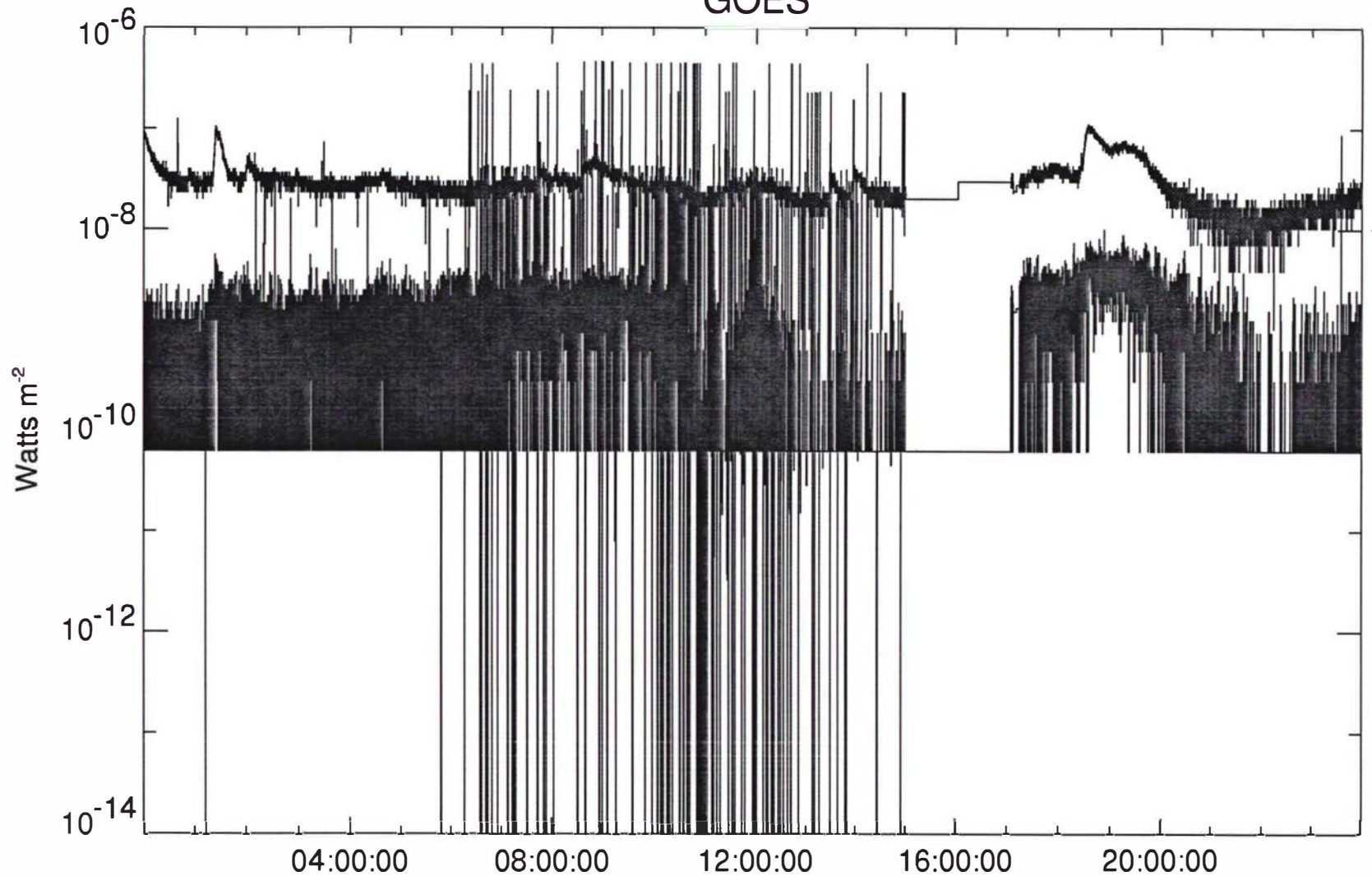
M

GOES

C

B

A



Watts m⁻²

10⁻⁶
10⁻⁸
10⁻¹⁰
10⁻¹²
10⁻¹⁴

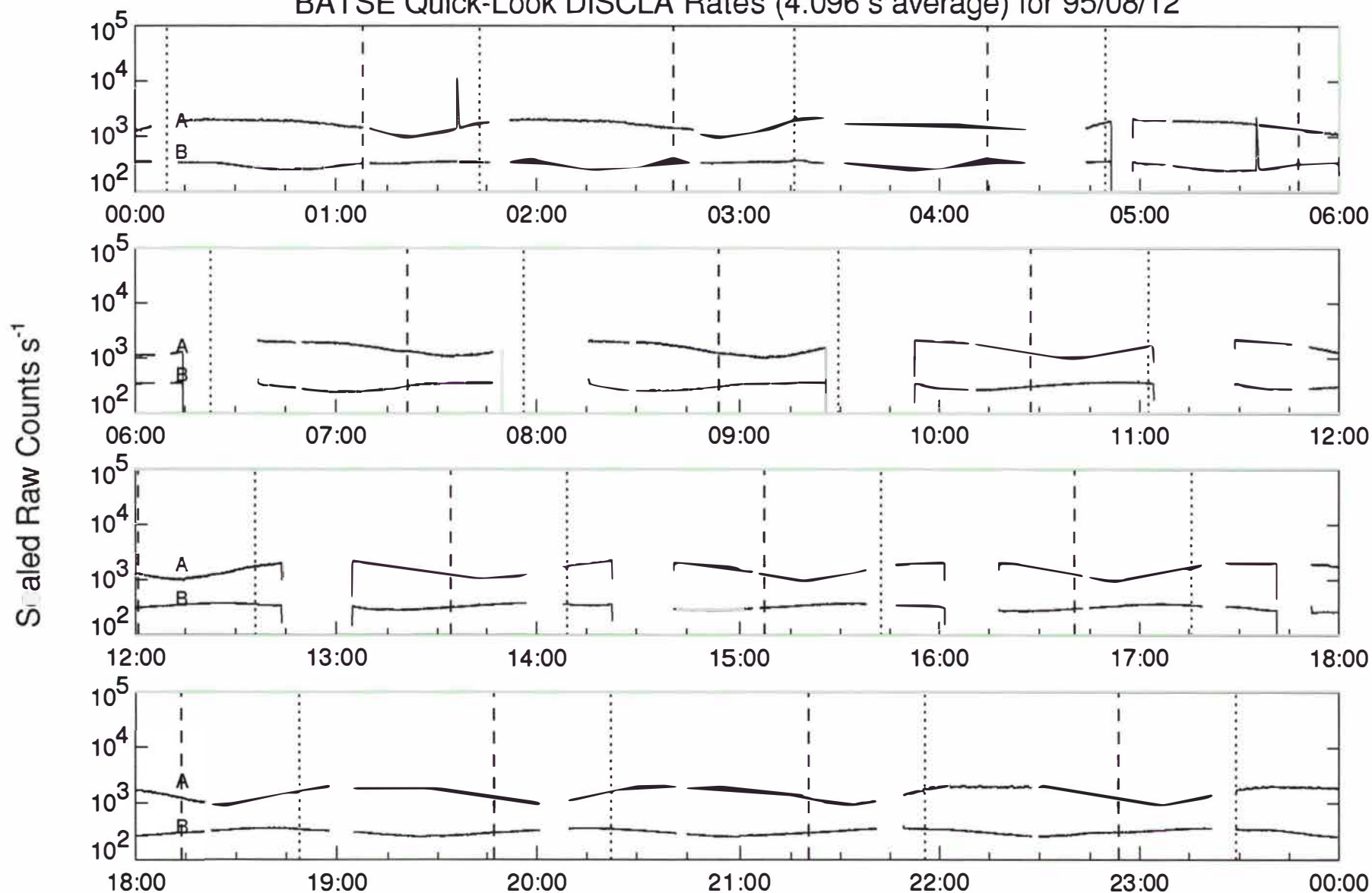
04:00:00 08:00:00 12:00:00 16:00:00 20:00:00

Data Start: 95/08/12, 0000:01

Plot created: 95/08/14, 0531

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 95/08/12



Current Time: 95/08/14, 0532 EDT

A: Channel 0 Most Sunward LAD

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

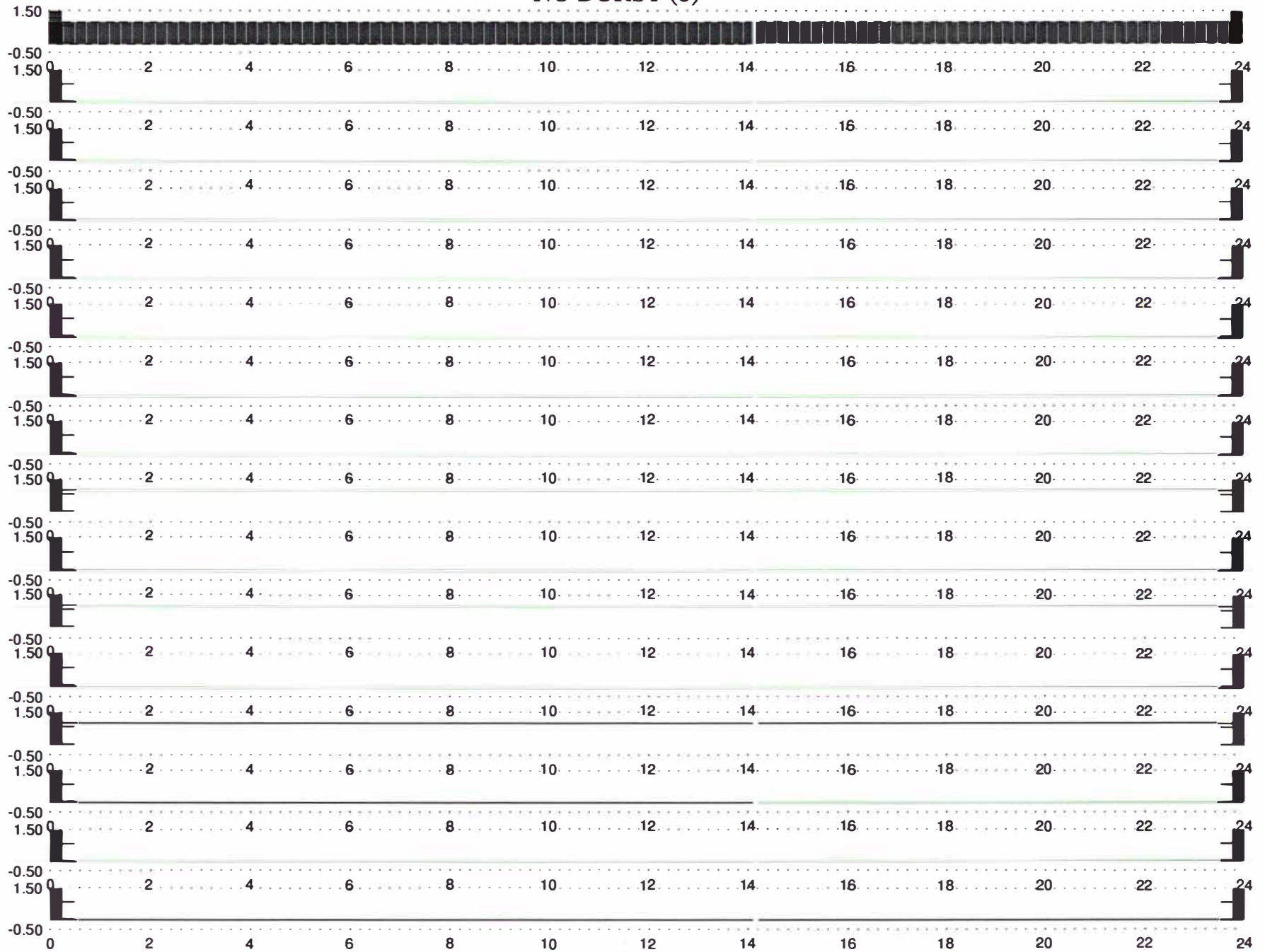
Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

HUS MODES EDR day 224, year 1995 to day 224, year 1995
NO BURST (8)

1/25/96

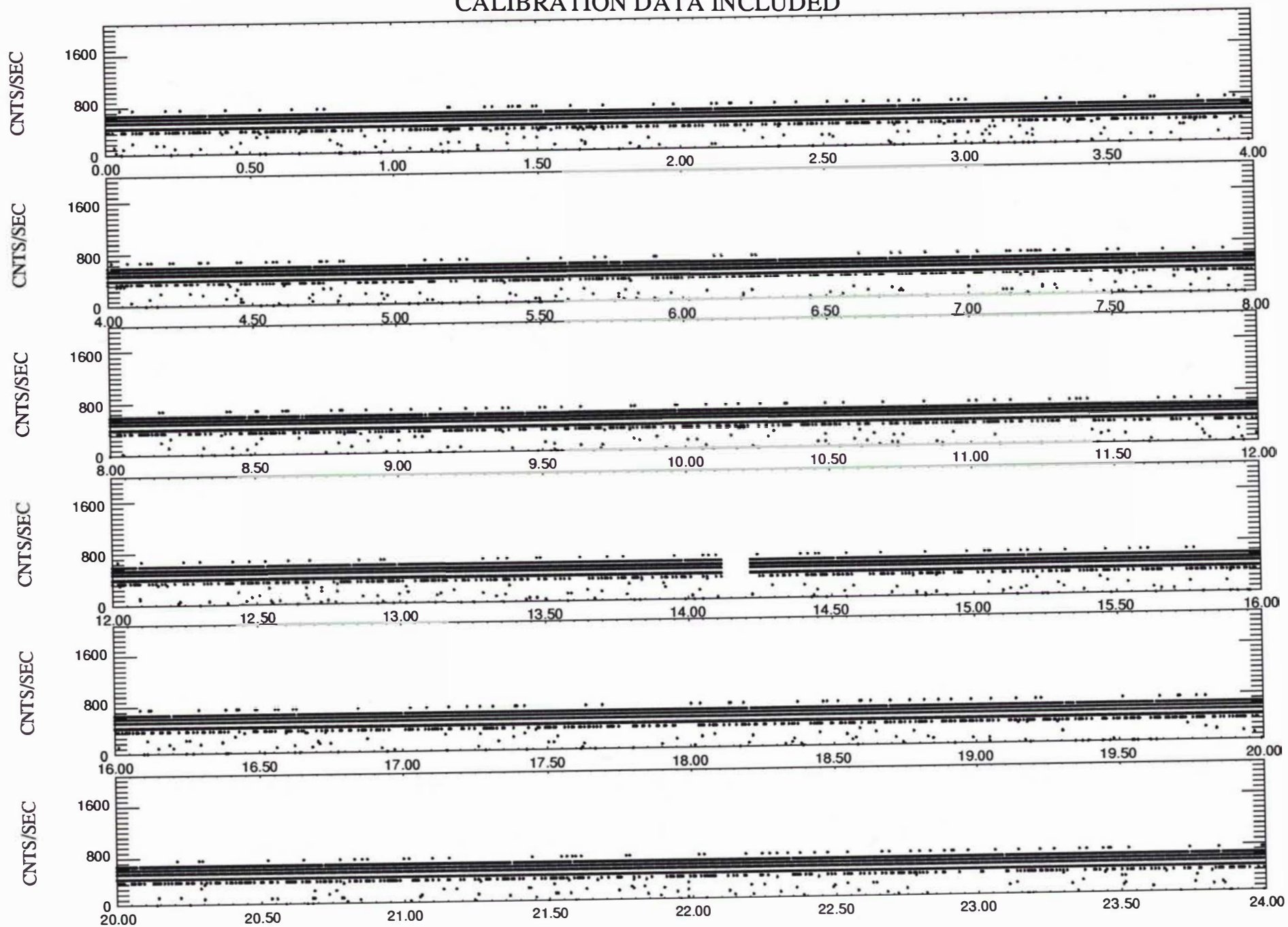
HUS
BRS
MEM
WCH
CAL
RSC
OPM
SPE
ICR
MP.
OSC
DMA
ROM
DMP
CCL
CBU



UNIVERSAL TIME

HUS 2A, MODE 1, NOT AVERAGED EDR day 224, year 1995 to day 224, year 1995
CALIBRATION DATA INCLUDED

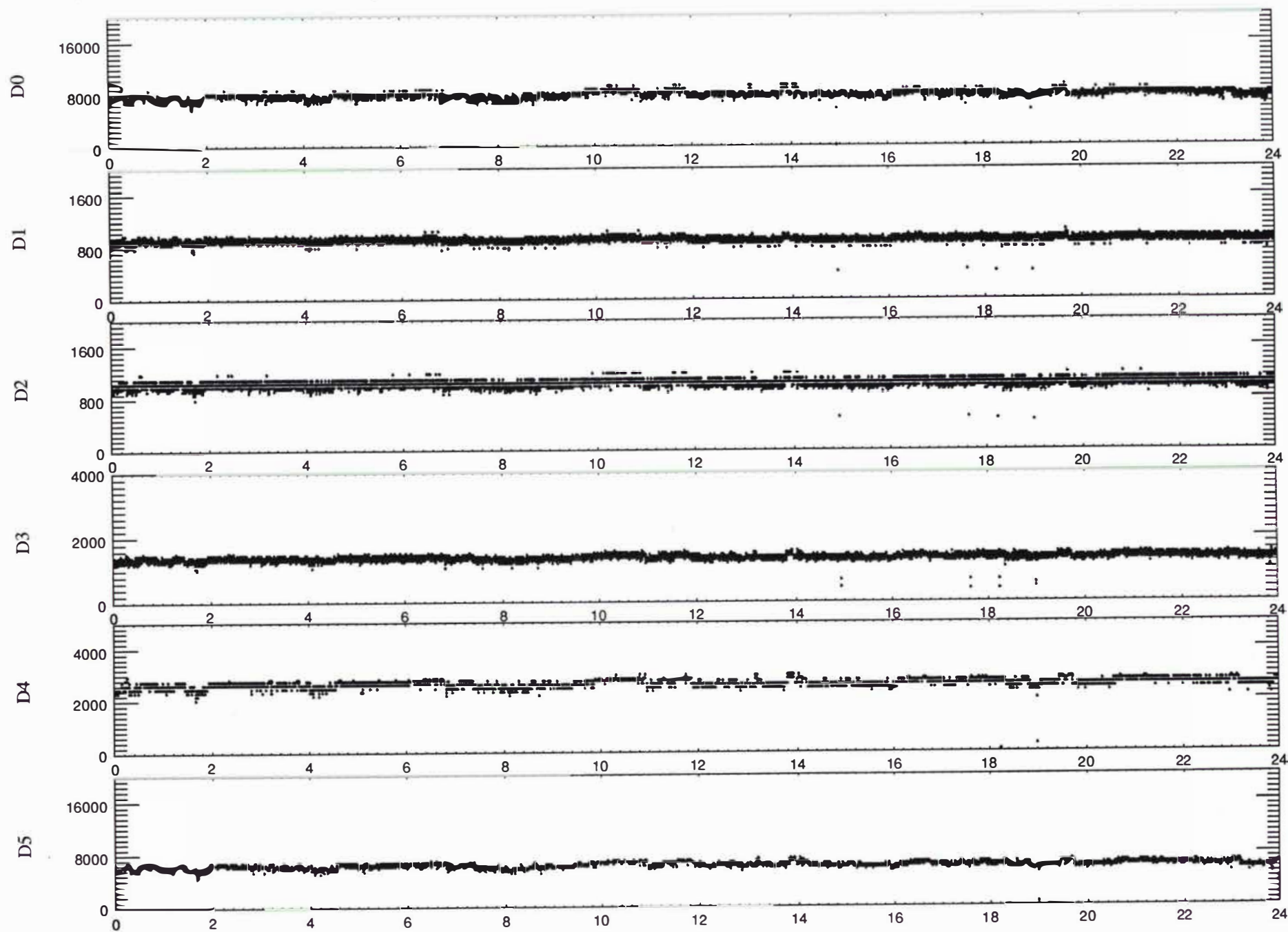
1/25/96



UNIV TIME

HUS 2B COUNTS / SEC QEDR day 224, year 1995 to day 224, year 1995

8/14/95



UNIVERSAL TIME

From SAHI@SSLLES.MSFC.NASA.GOV Tue Aug 15 09:43 PDT 1995
Date: Tue, 15 Aug 1995 11:43:14 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3760

TIME: TJD=9942 SECONDS=14992

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

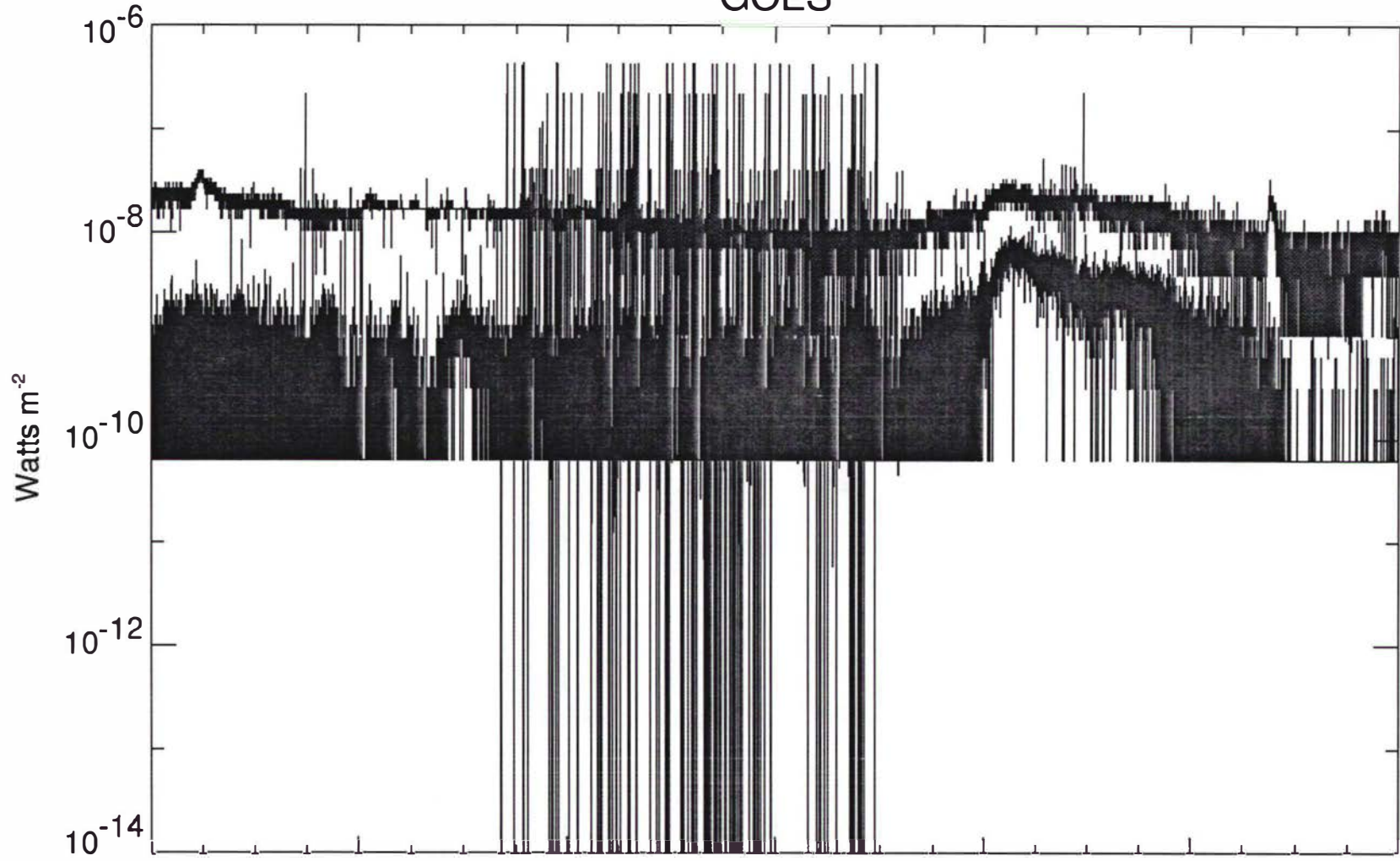
M

GOES

C

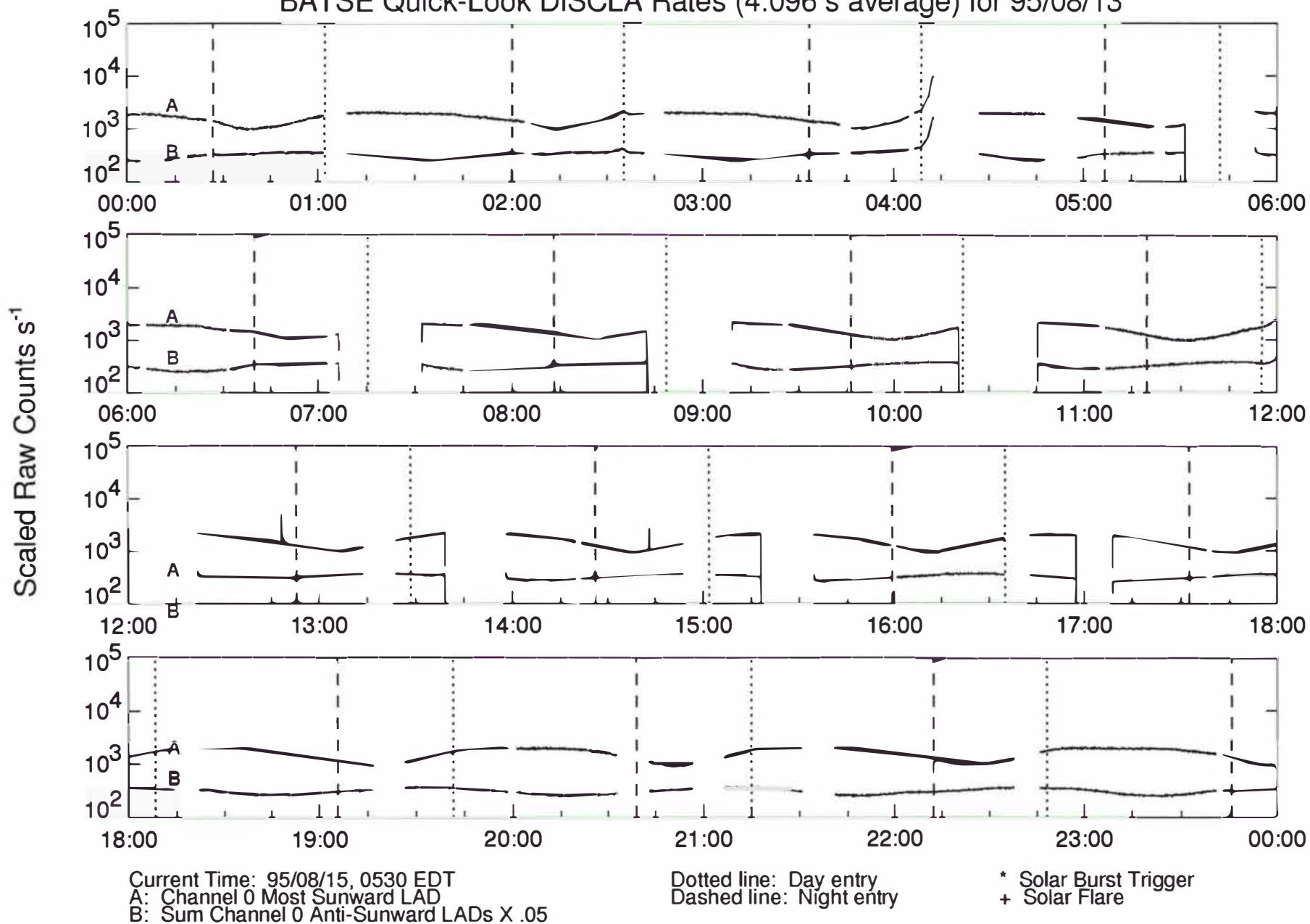
B

A



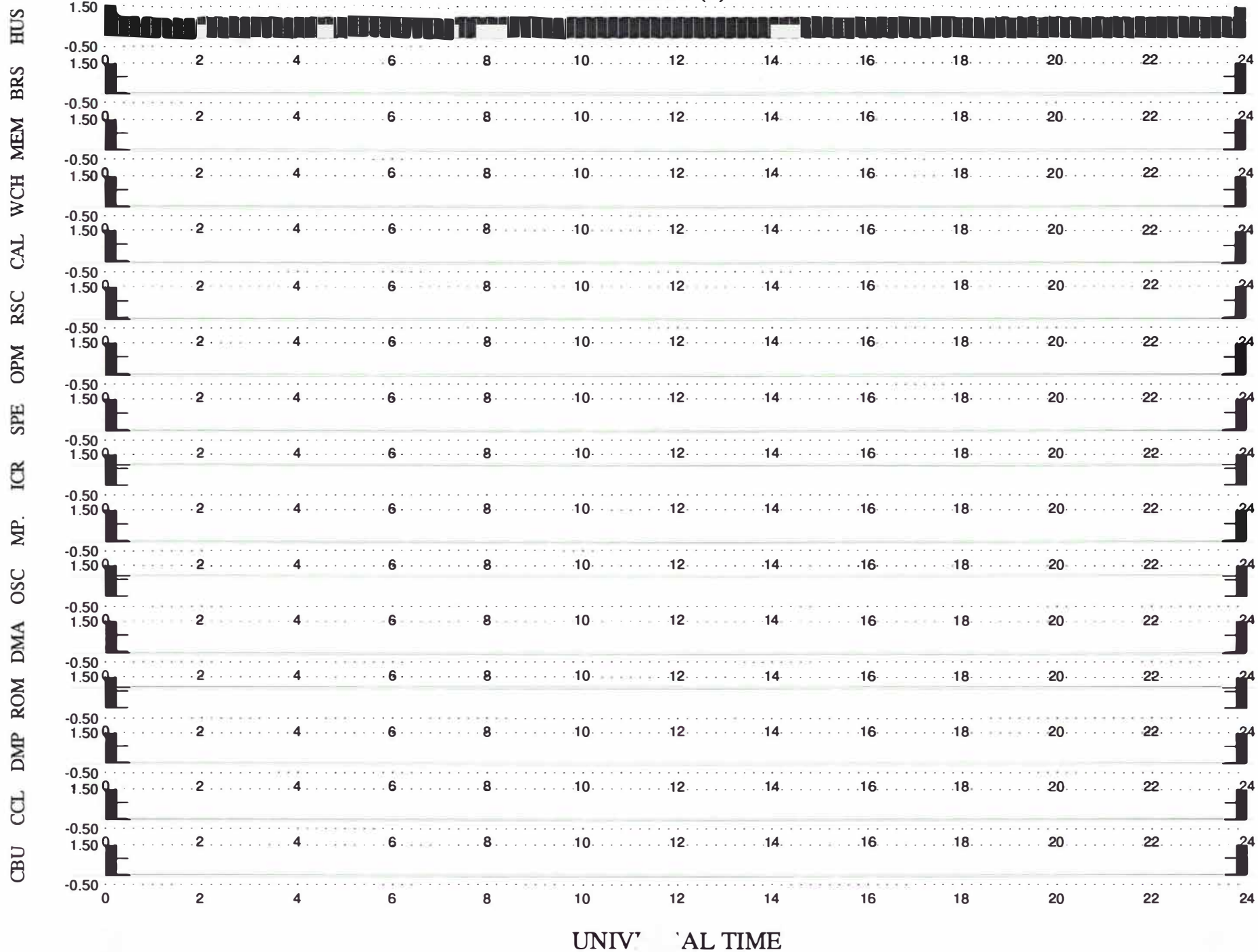
Data Start: 95/08/13, 0000:02 Plot created: 95/08/15, 0529
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/13



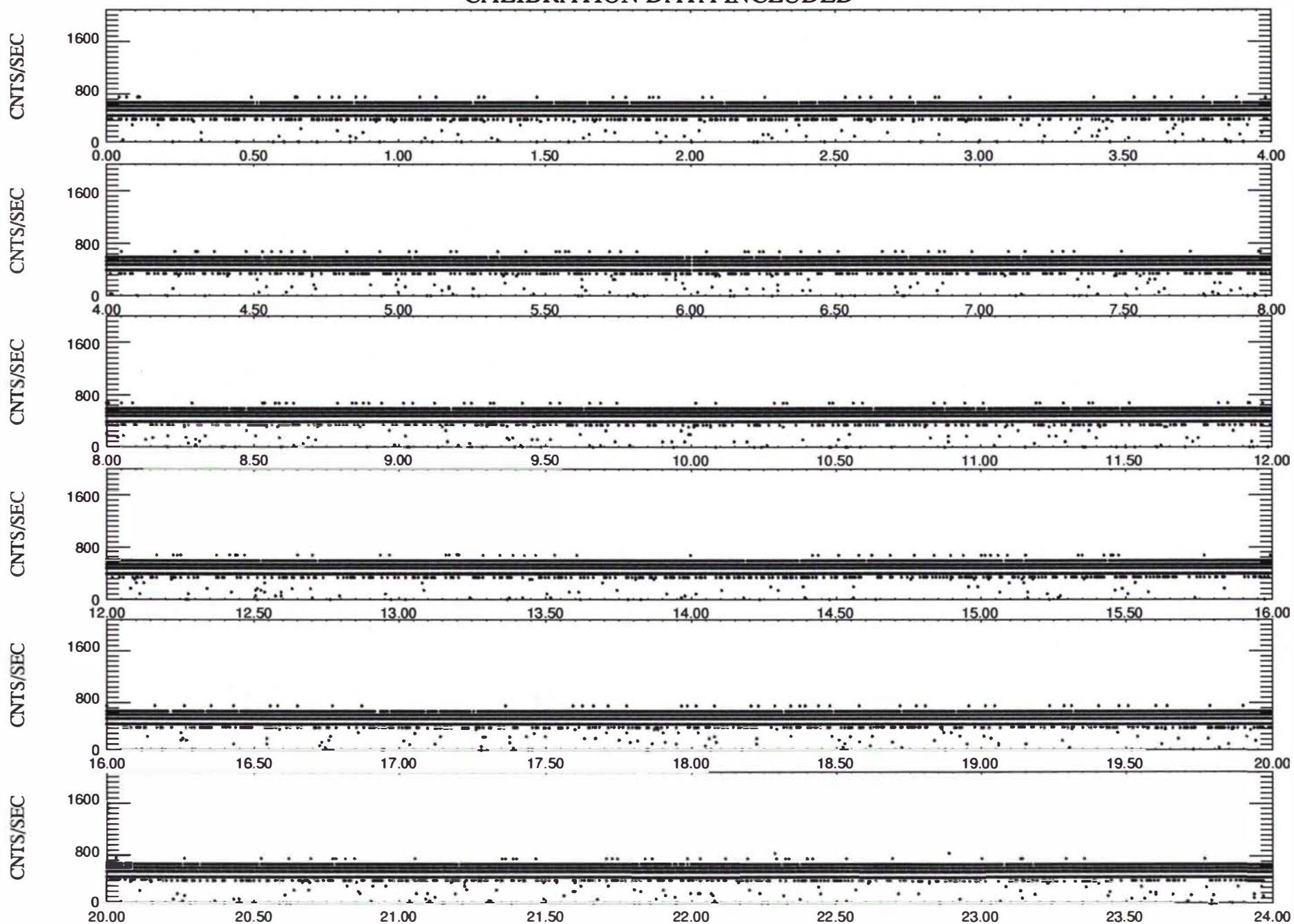
HUS MODES EDR day 225, year 1995 to day 225, year 1995
NO BURST (8)

1/25/96

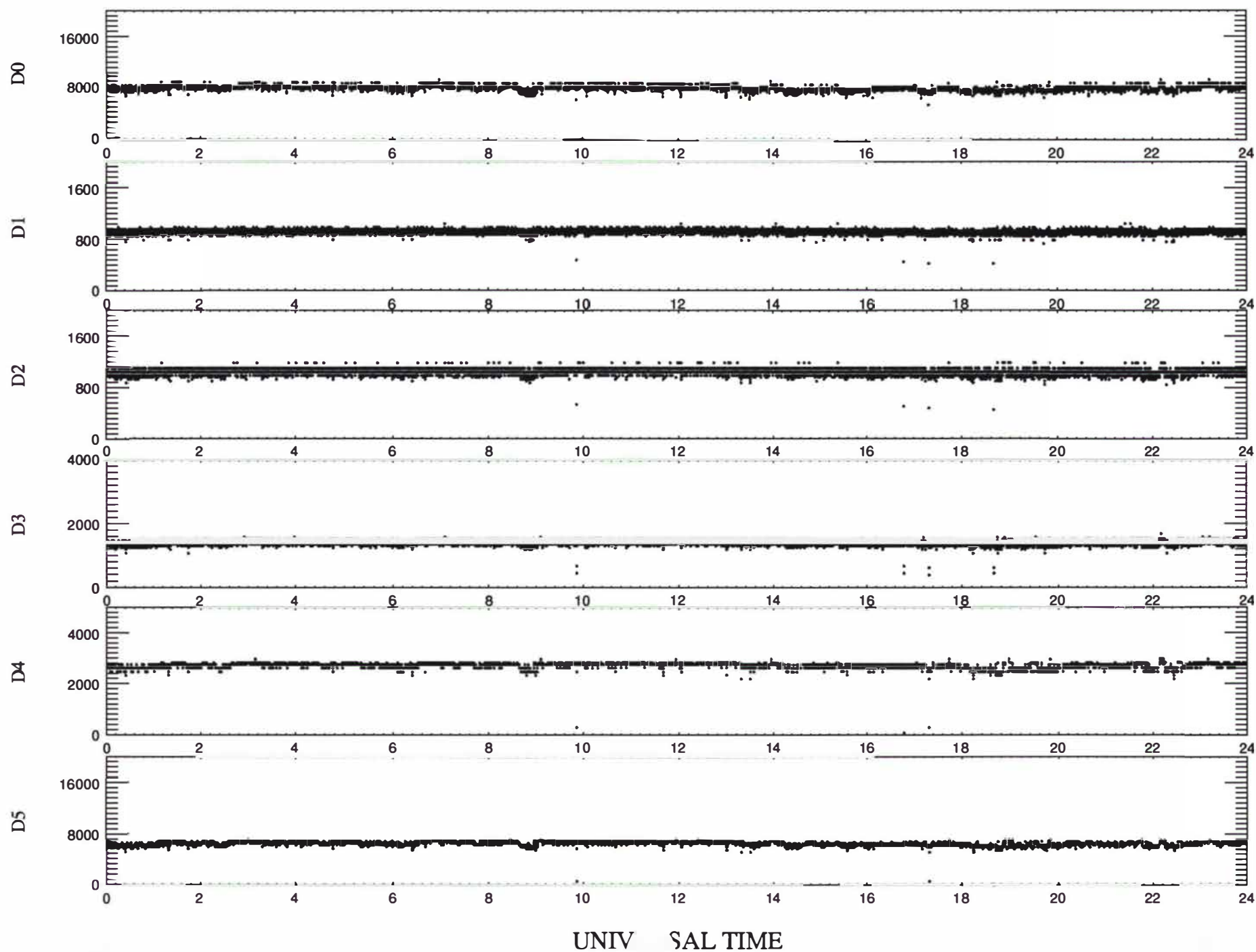


HUS 2A, MODE 1, NOT AVERAGED EDR day 225, year 1995 to day 225, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From SAHI@SSLLES.MSFC.NASA.GOV Tue Aug 15 09:48 PDT 1995
Date: Tue, 15 Aug 1995 11:47:47 -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, band@cass09.ucsd.edu
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3761

TIME: TJD=9943 SECONDS=15185

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

SIGNIFICANCE: SIGMA

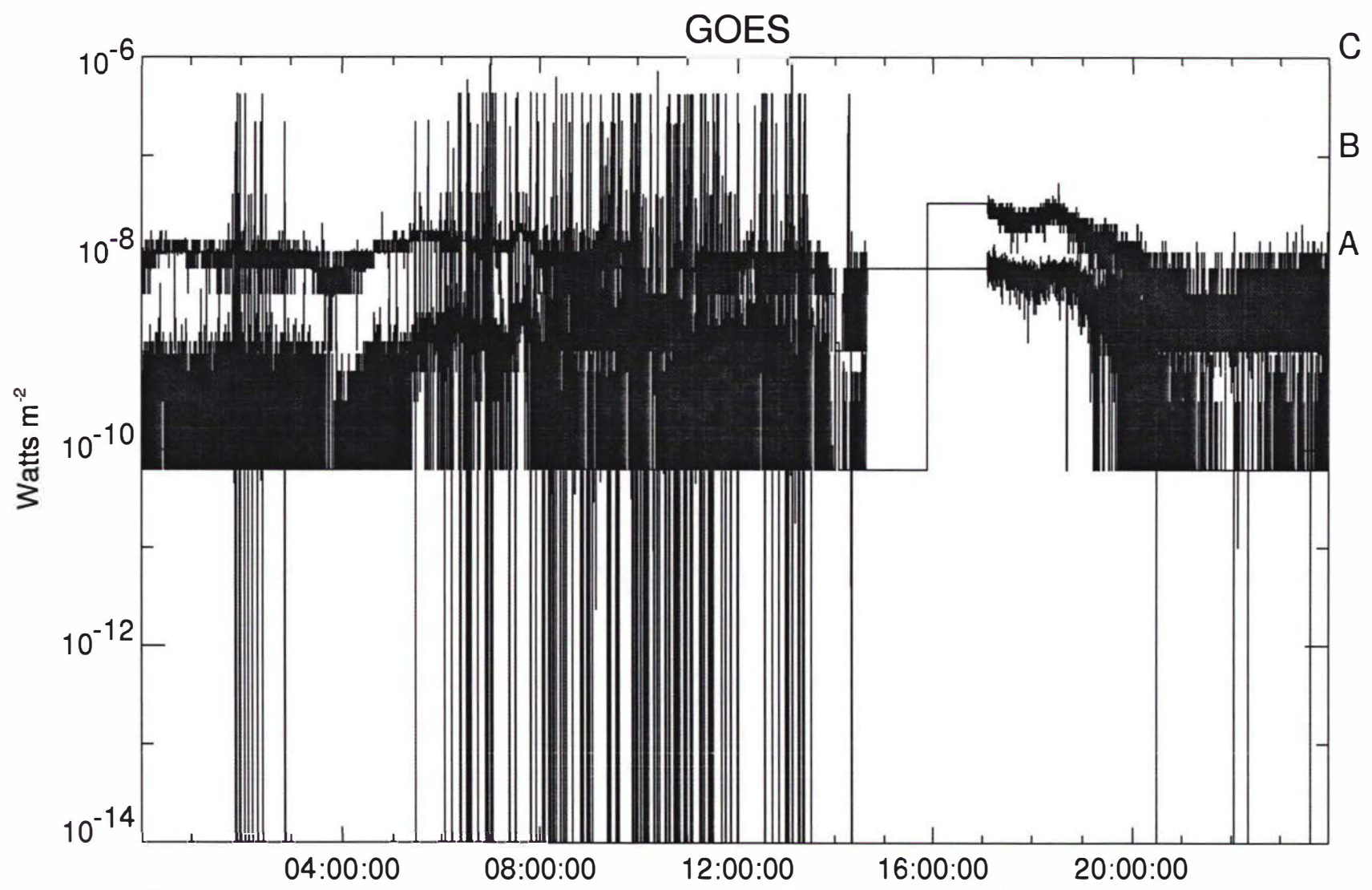
INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION.

M

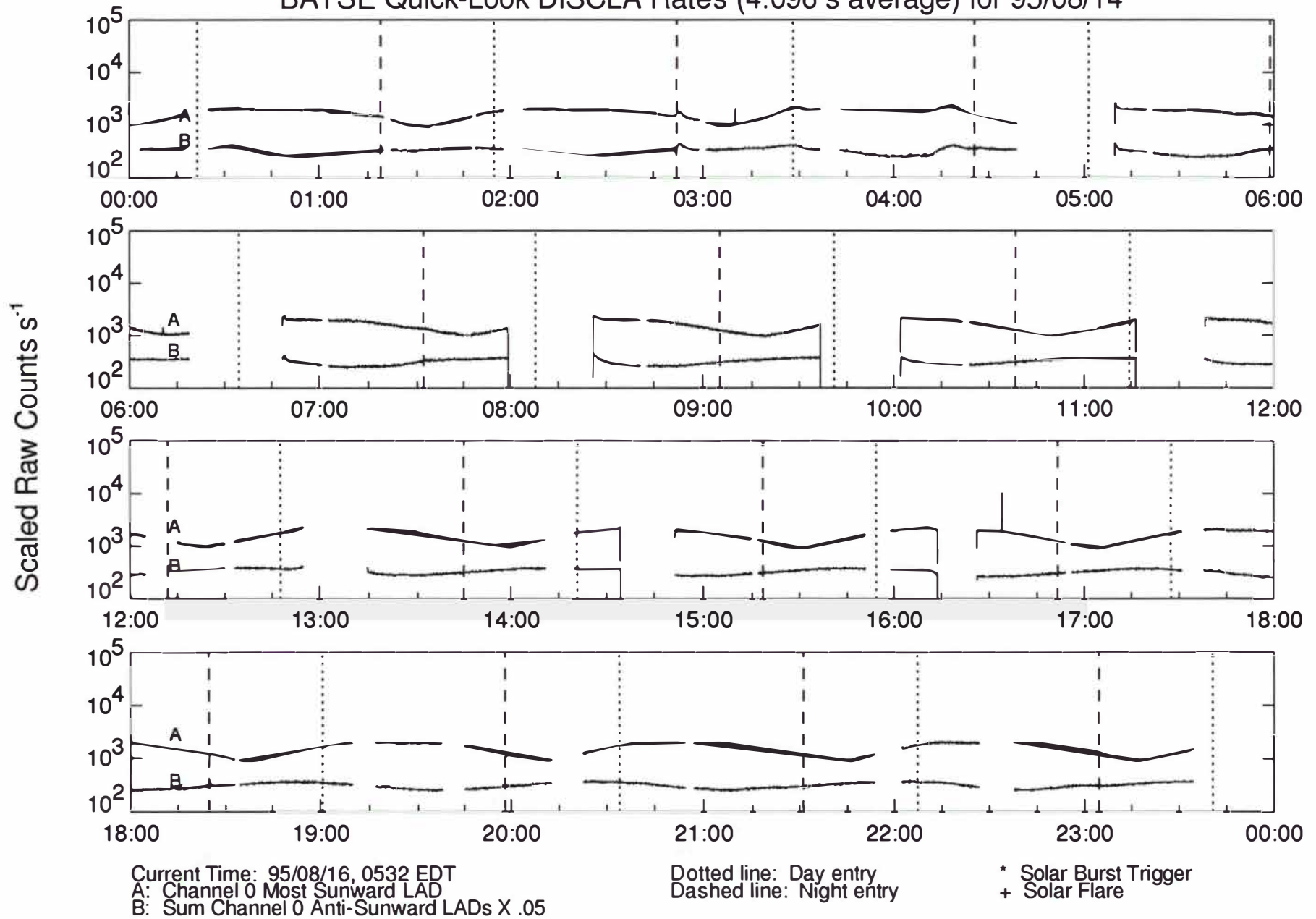


Data Start: 95/08/14, 0000:00 Plot created: 95/08/16, 0531

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

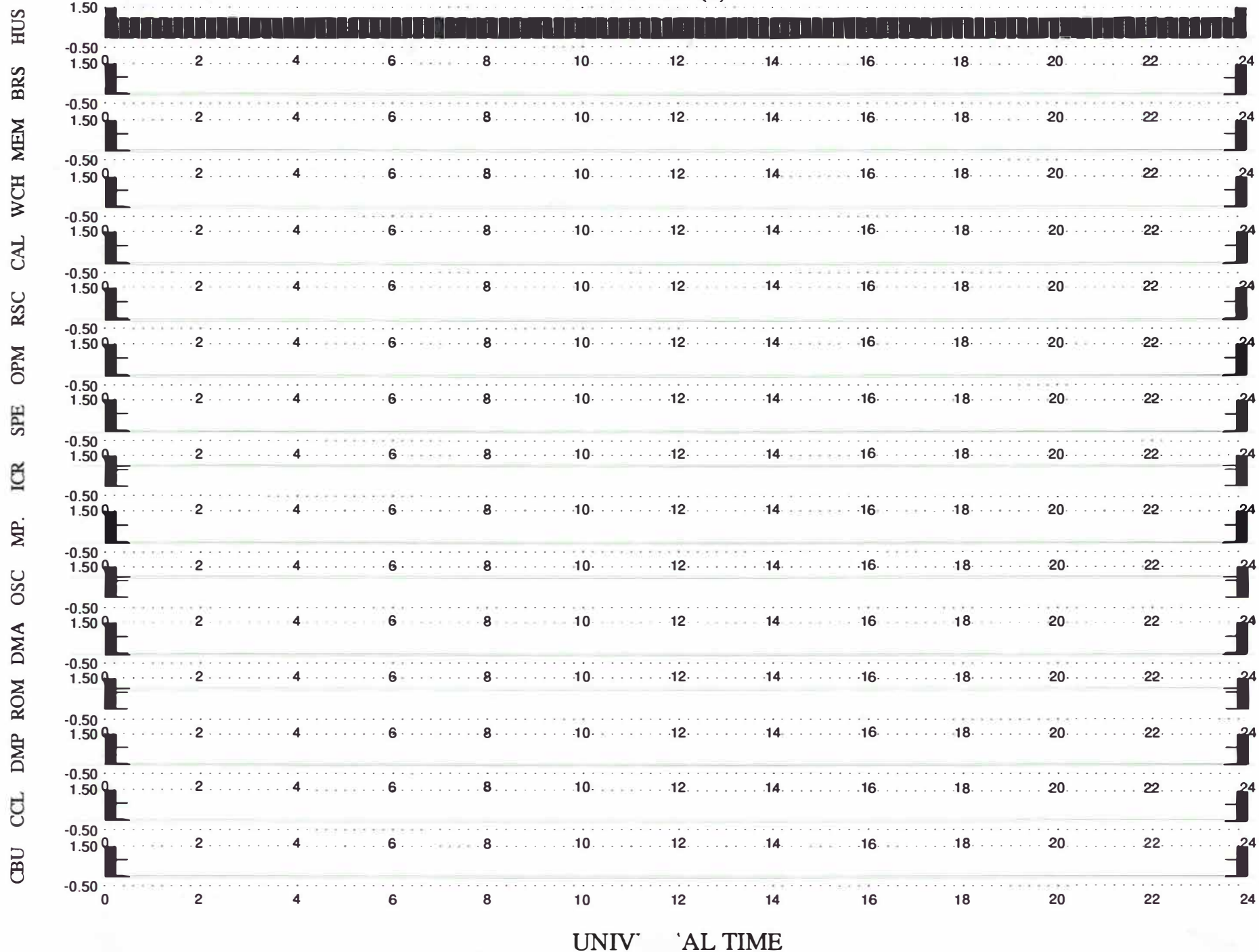
2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/14



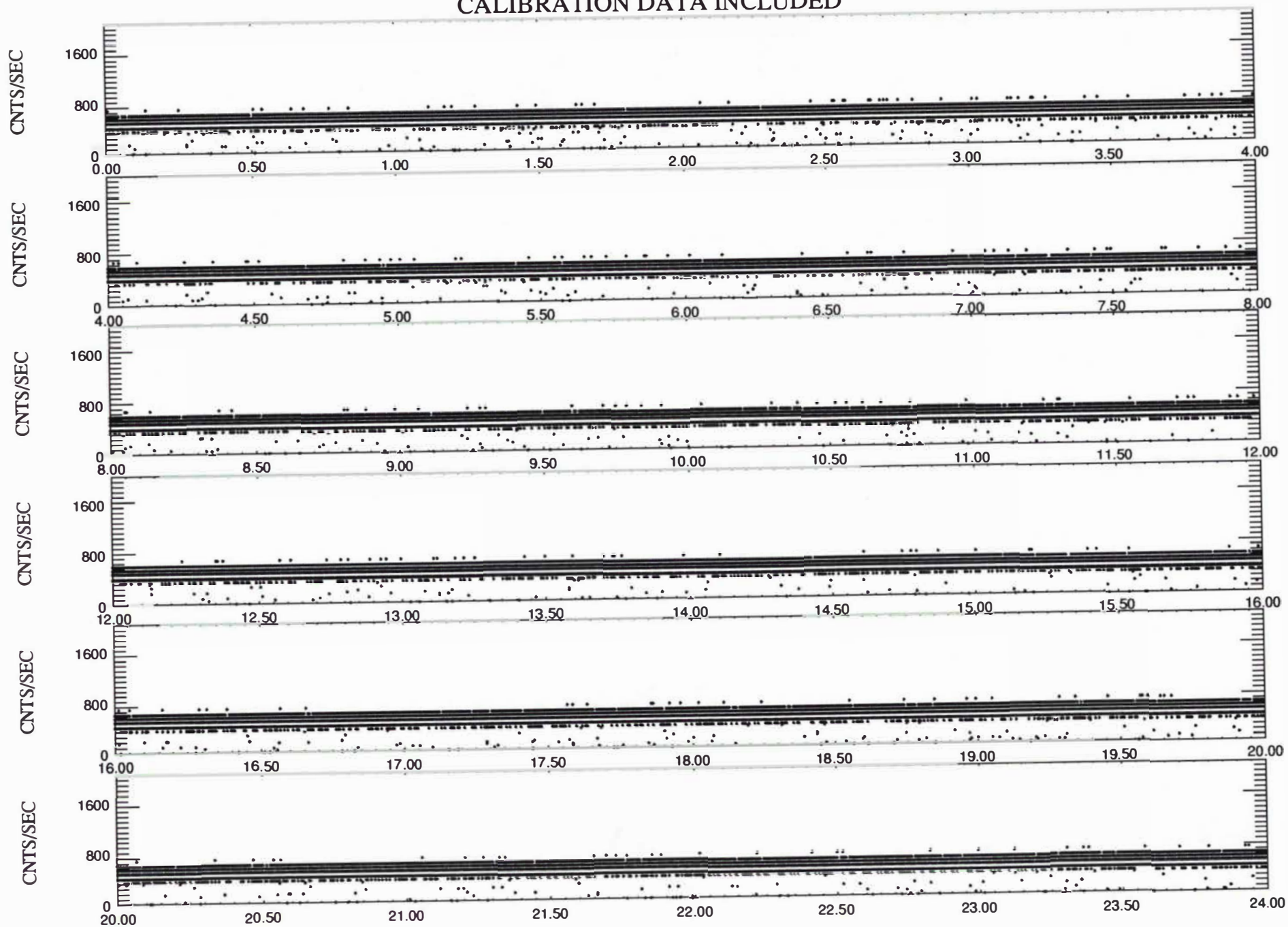
HUS MODES EDR day 226, year 1995 to day 226, year 1995 NO BURST (8)

1/25/96

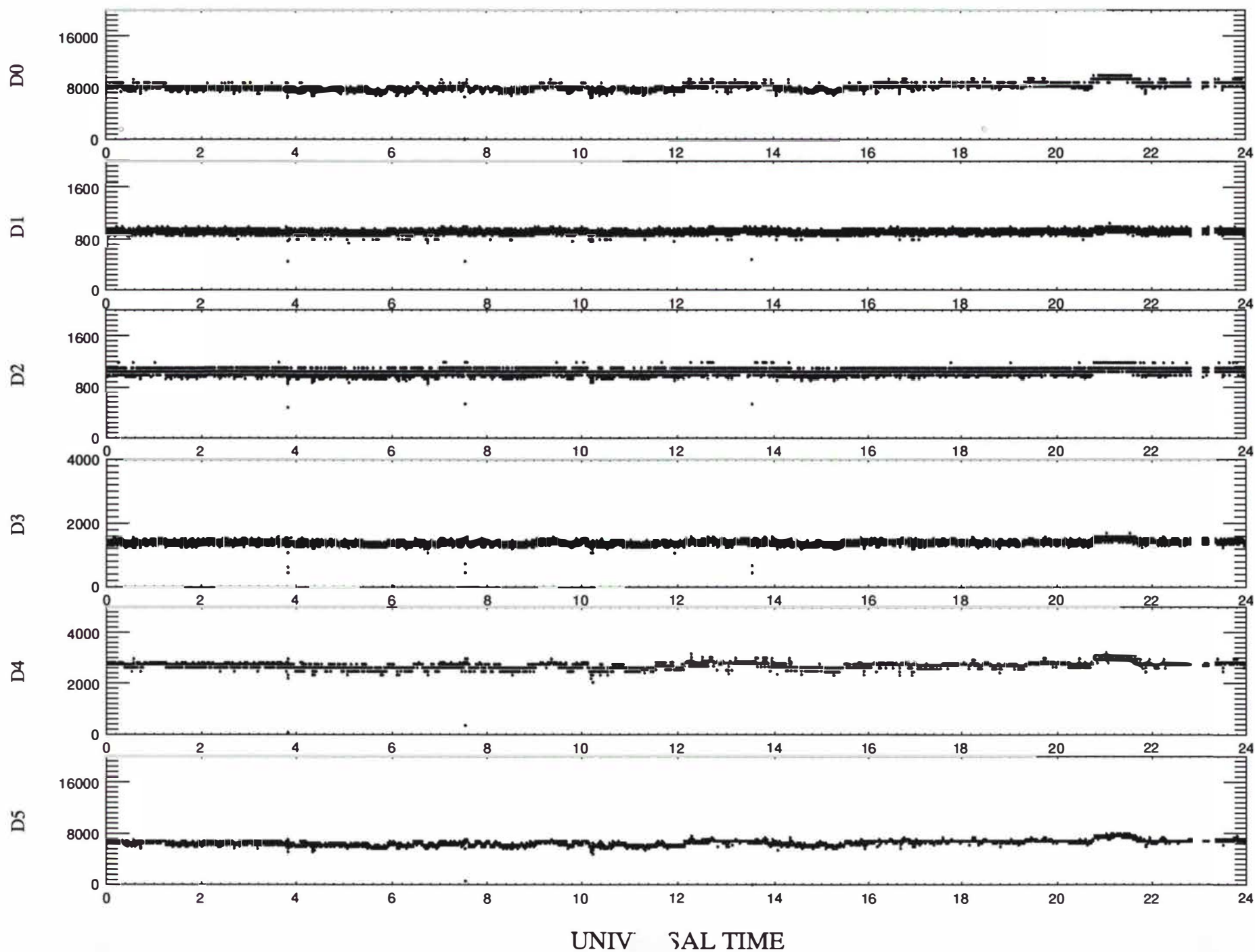


HUS 2A, MODE 1, NOT AVERAGED EDR day 226, year 1995 to day 226, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV AL TIME



From DEAL@ssl.msfc.nasa.gov Wed Aug 16 09:16 PDT 1995
Date: Wed, 16 Aug 1995 11:15:54 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3762

No

BATSEARCH PROGRAM

BATSE BURST # 3762
EVENT OF 1995 AUG 15 DAY OF YEAR=227
EVENT CROSSING TIME AT BATSE : 76483. S. OR 21:14:43.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 263.000 3.000
BATSE PEAK COUNTING RATE: 3000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 15/ 8/ 95 IS:
RA= 174.432 DEC= 75.911 DIST= 2.369 AU
BATSE-ULYSSES DISTANCE = 354456573. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 93.26 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -67.20 SECS.
CROSSING TIME AT ULYSSES IS 76416. S. OR 21:13:35 +/- 253.92 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 15/ 8/ 95 IS:
RA= 193.834 DEC= -5.829 DIST= 1.937 AU
MARS-BATSE DISTANCE = 289773920. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=110.37 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -336.38 SECS.
CROSSING TIME AT MARS IS 76147. S. OR 21:09:06 +/- 152.22 SECONDS

BATSE BURST TRIGGER

NO.: 3762

TIME: TJD=9944 SECONDS=76483

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=154.8 AZIMUTH=71.7 ERROR=2.7 DEGREES

COMMENTS:

BURST LASTING ~ 12 S. NOT VISIBLE ABOVE 300 KEV.
ABOVE ERROR IS STATISTICAL. ADD 1.5 FOR SYSTEMATIC.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3762	950815	9944	76483	3000	263	+03	12

16 / 8 / 95

ULYSSES RT

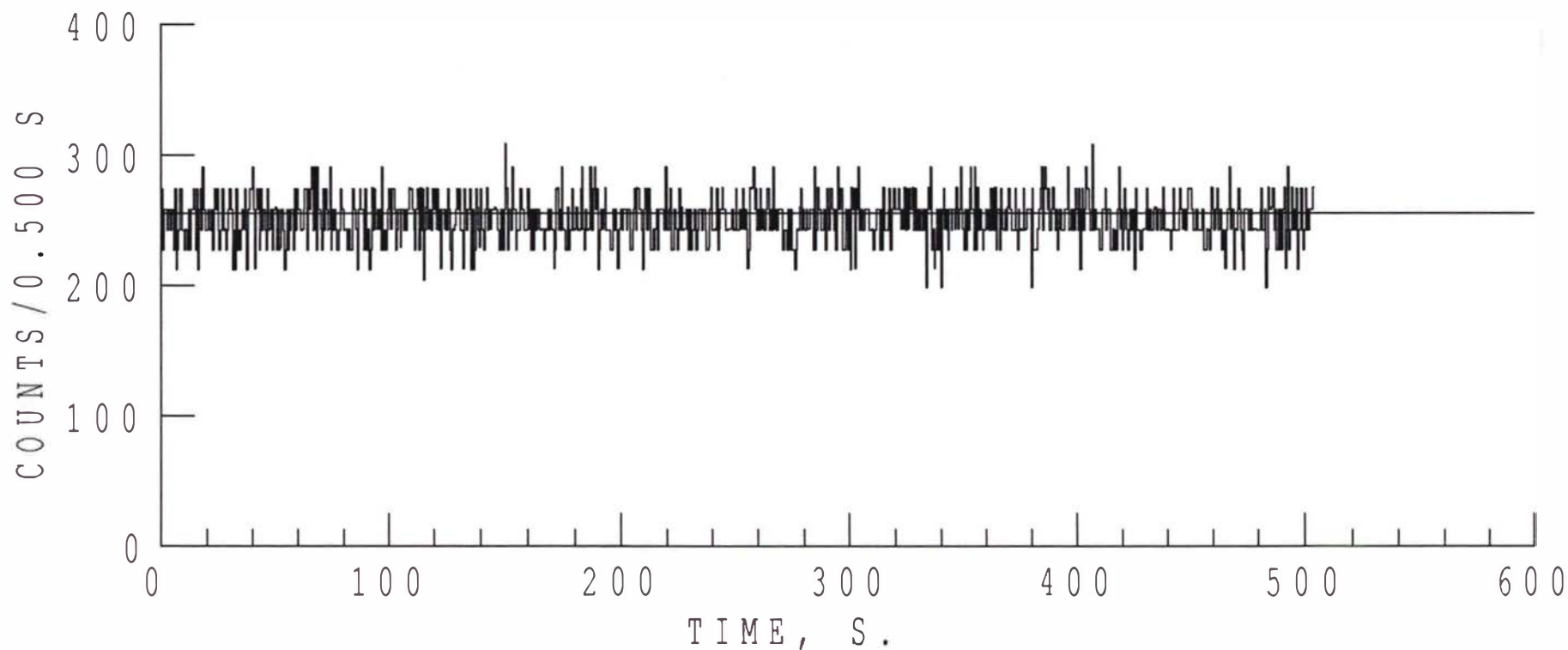
15 / 8 / 95 76176.180 s

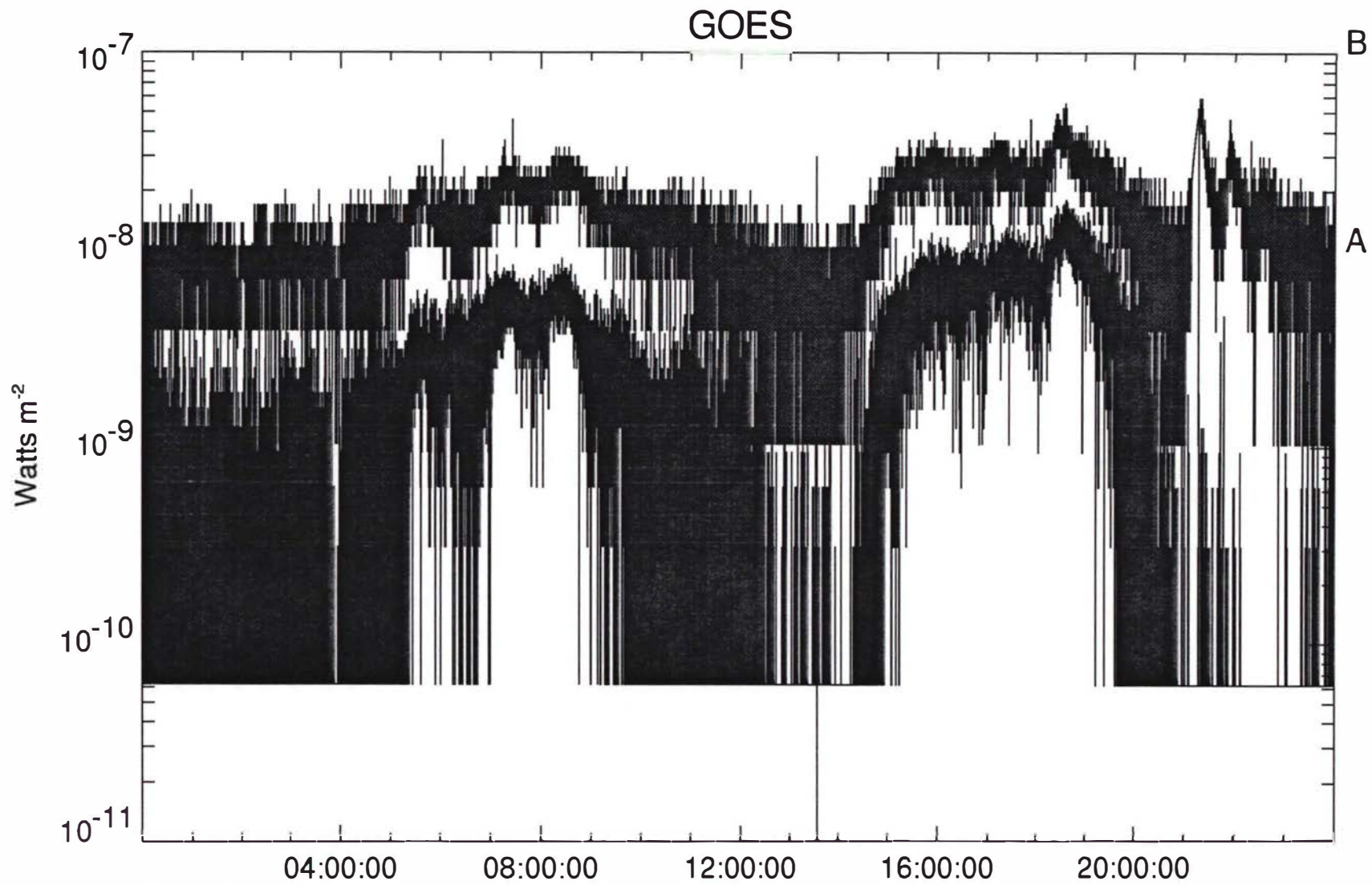
0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS





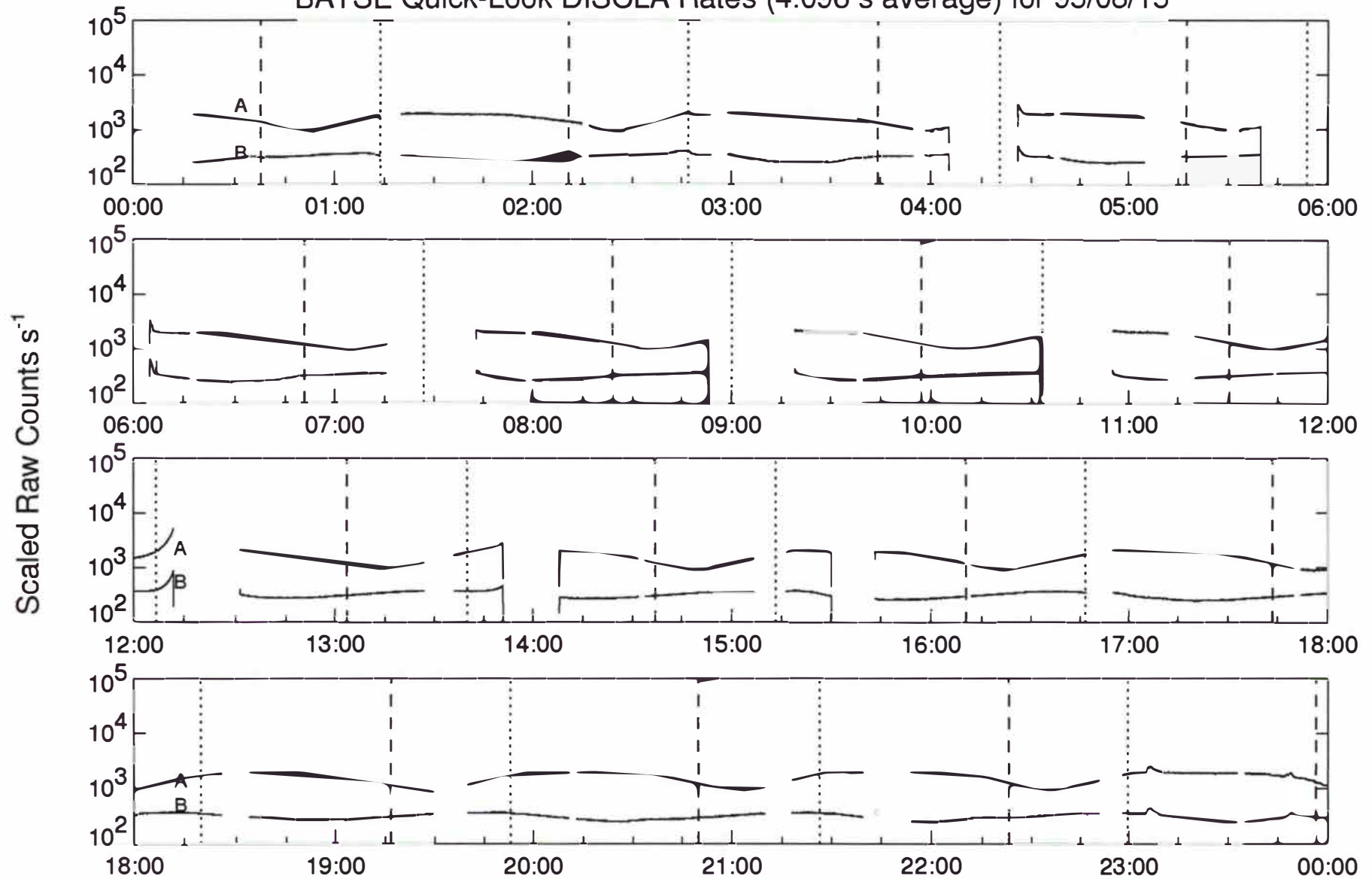
Data Start: 95/08/15, 0000:00

Plot created: 95/08/17, 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 95/08/15



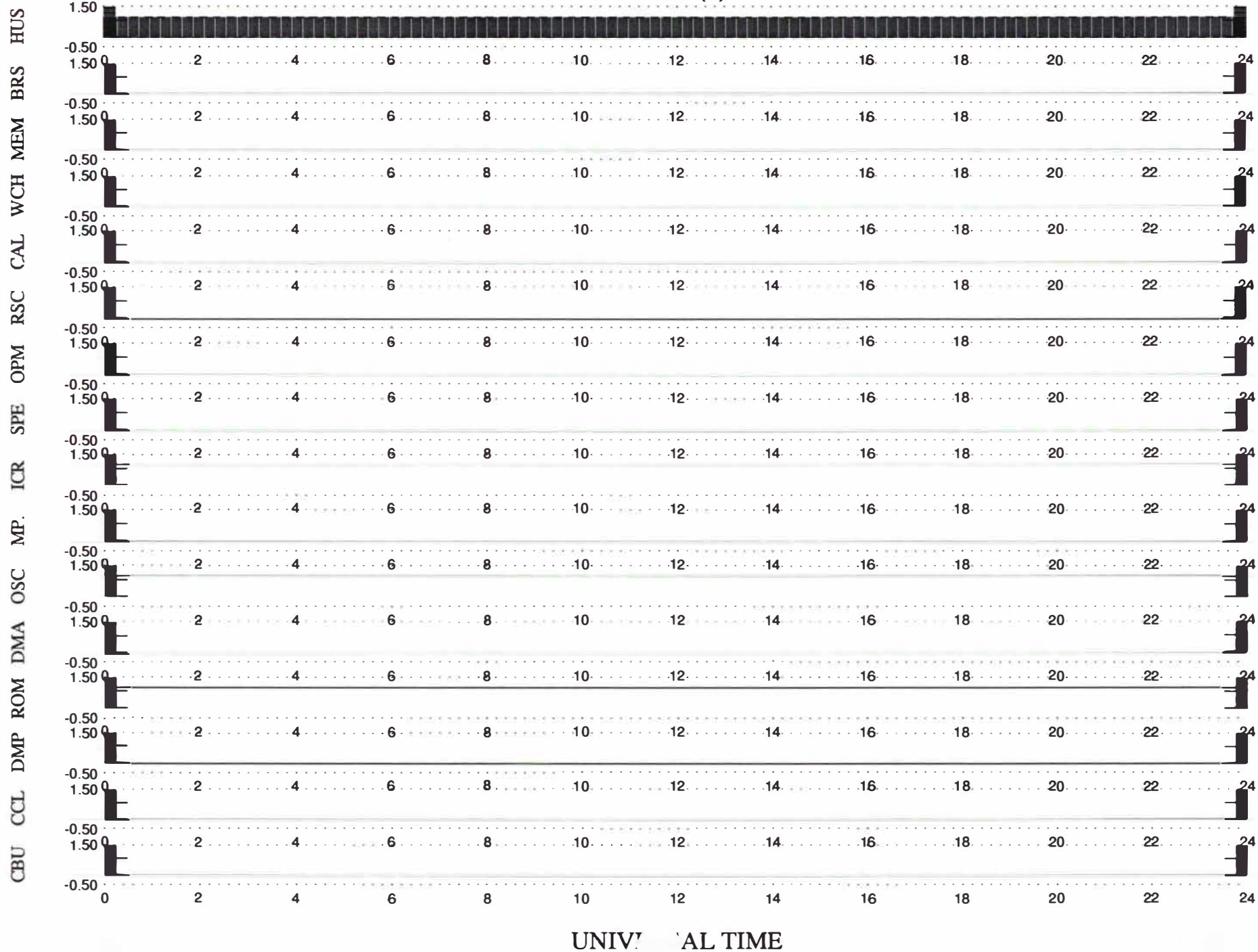
Current Time: 95/08/17, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

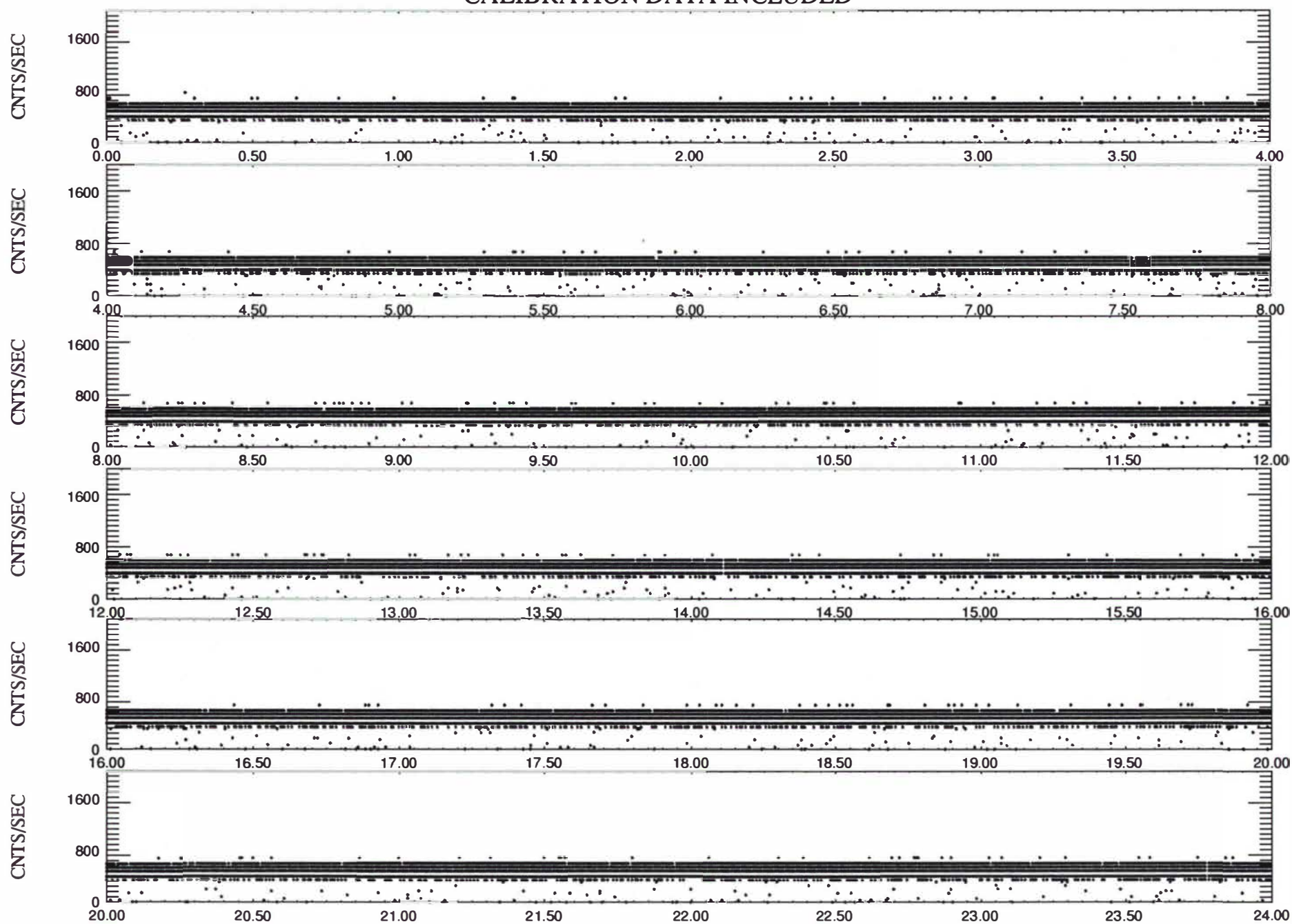
HUS MODES EDR day 227, year 1995 to day 227, year 1995
NO BURST (8)

1/25/96

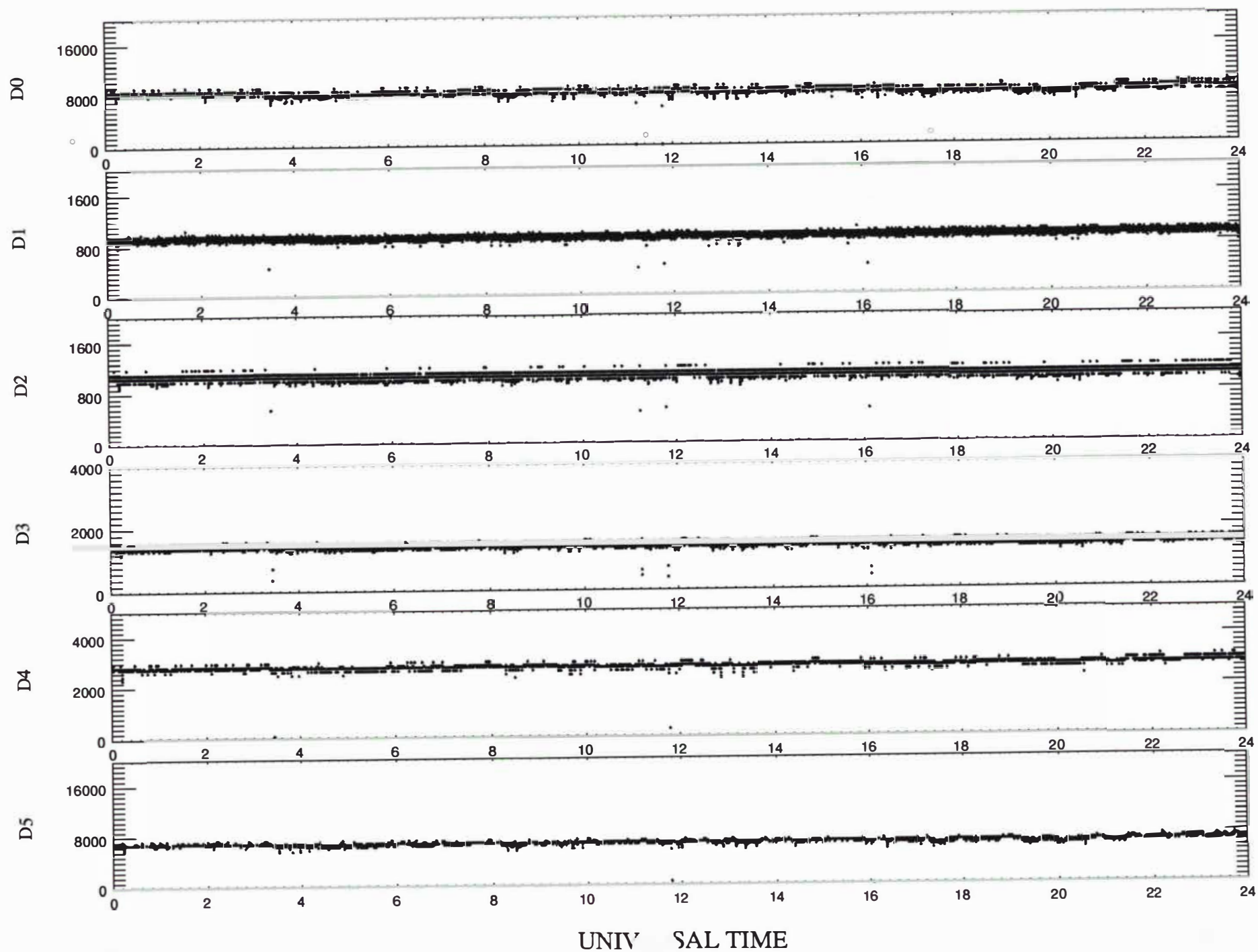


HUS 2A, MODE 1, NOT AVERAGED EDR day 227, year 1995 to day 227, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV' AL TIME



From HAGEDON@fender.msfc.nasa.gov Thu Aug 17 07:22 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Thu, 17 Aug 1995 9:21:53 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3763

TIME: TJD=9945 SECONDS=80677

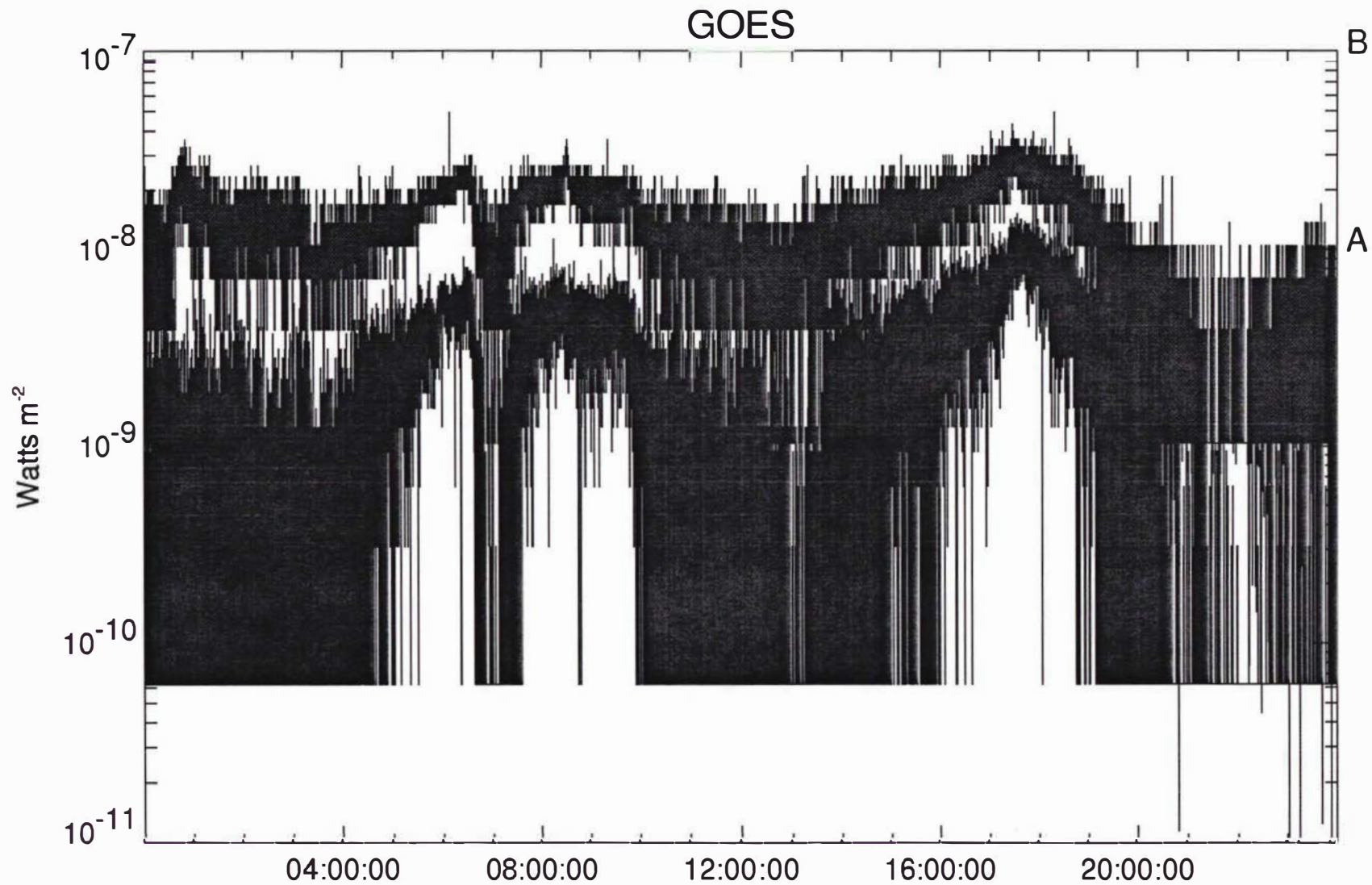
TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.



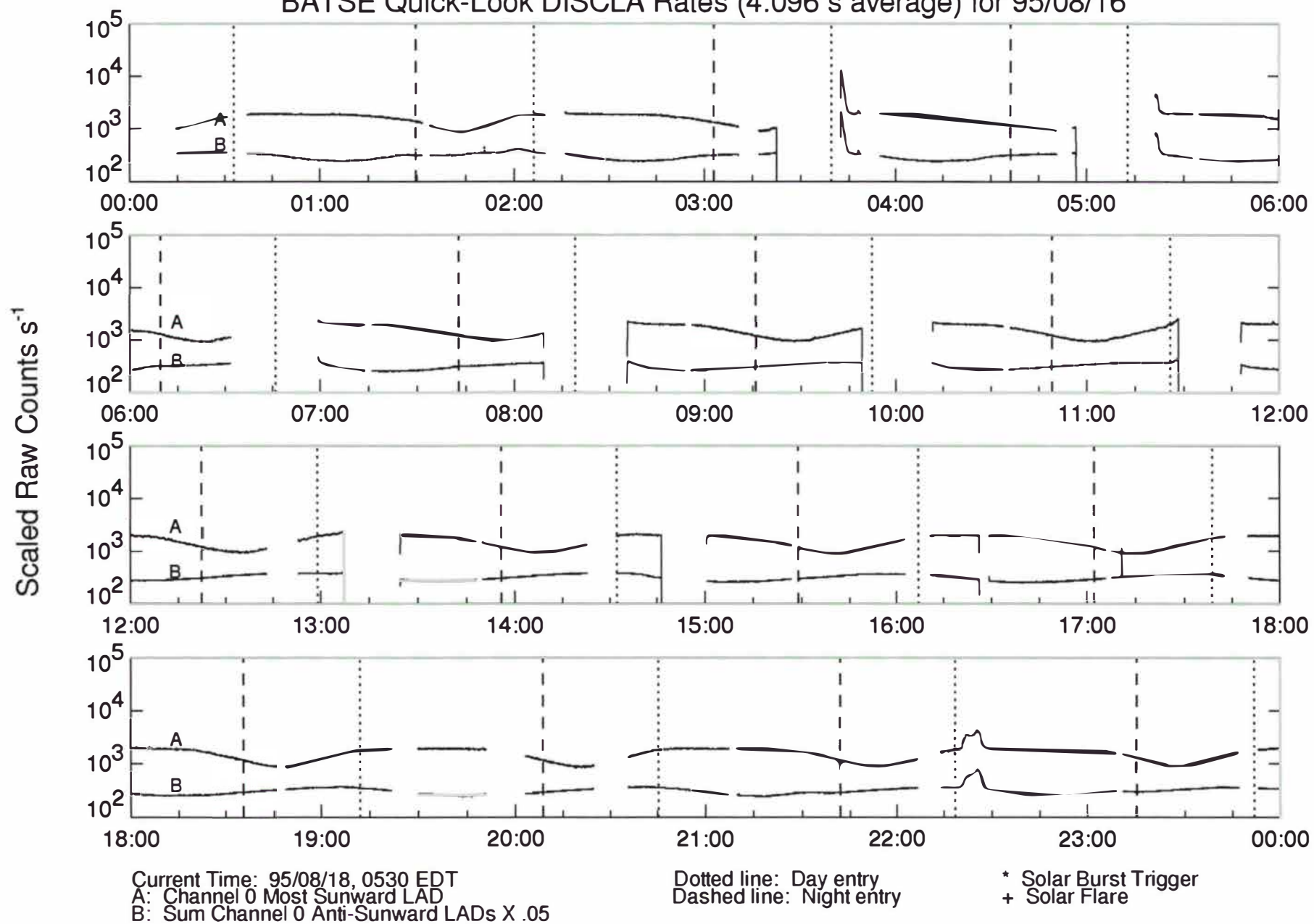
Data Start: 95/08/16, 0000:01

Plot created: 95/08/18, 0529

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

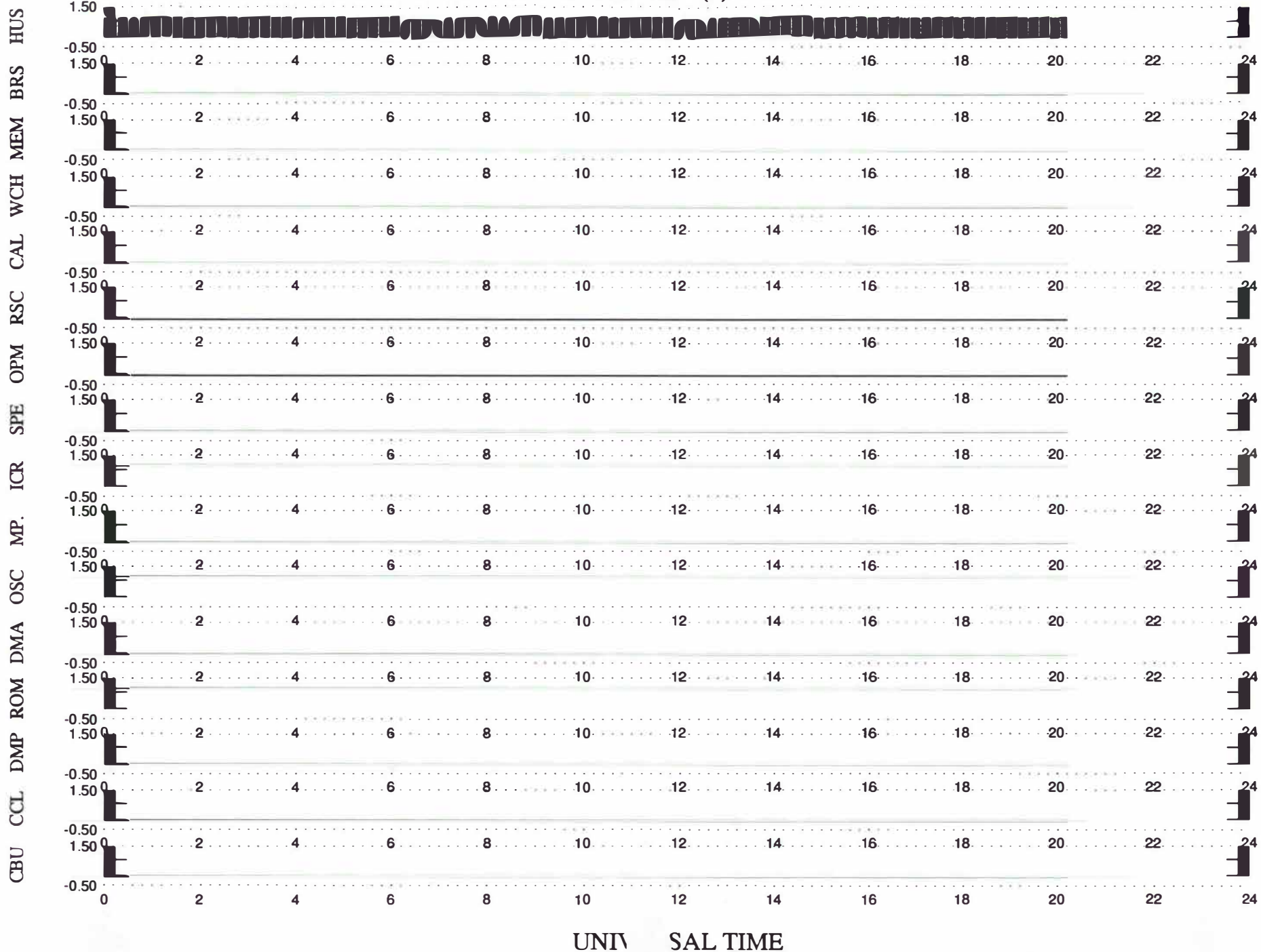
Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/16



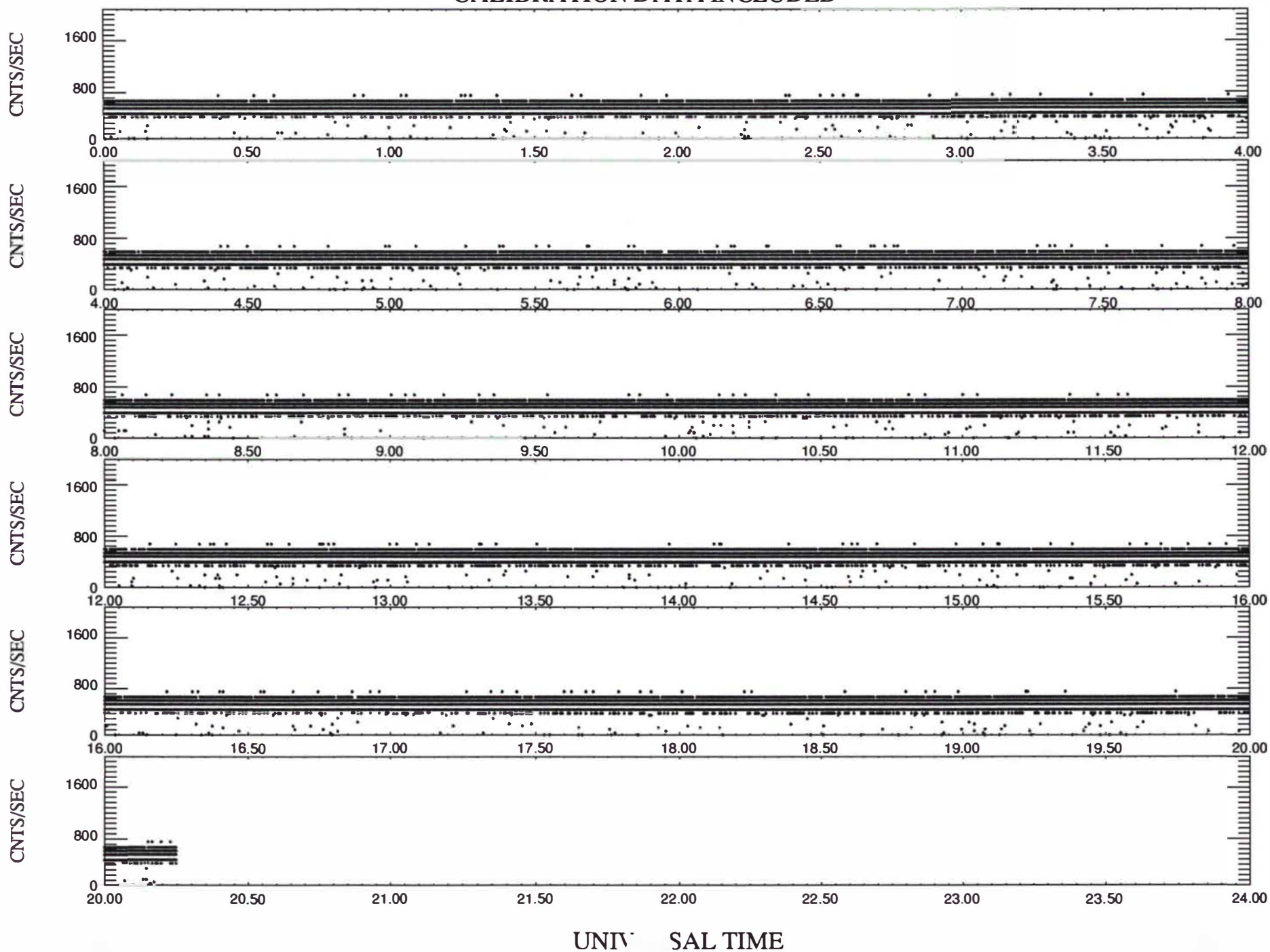
HUS MODES QEDR day 228, year 1995 to day 228, year 1995 NO BURST (8)

8/17/95



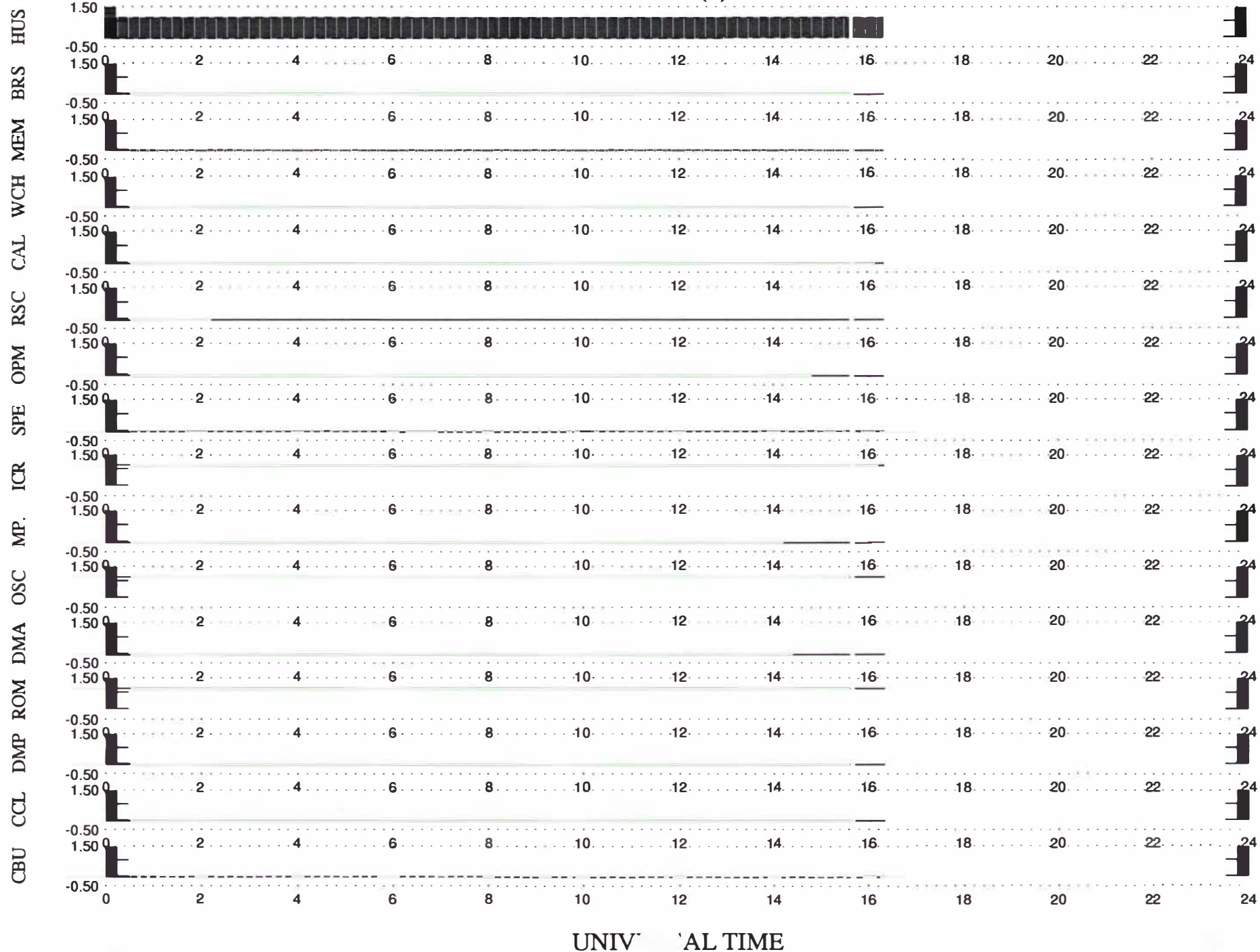
HUS 2A, MODE 1, NOT AVERAGED QEDR day 228, year 1995 to day 228, year 1995
CALIBRATION DATA INCLUDED

8/17/95



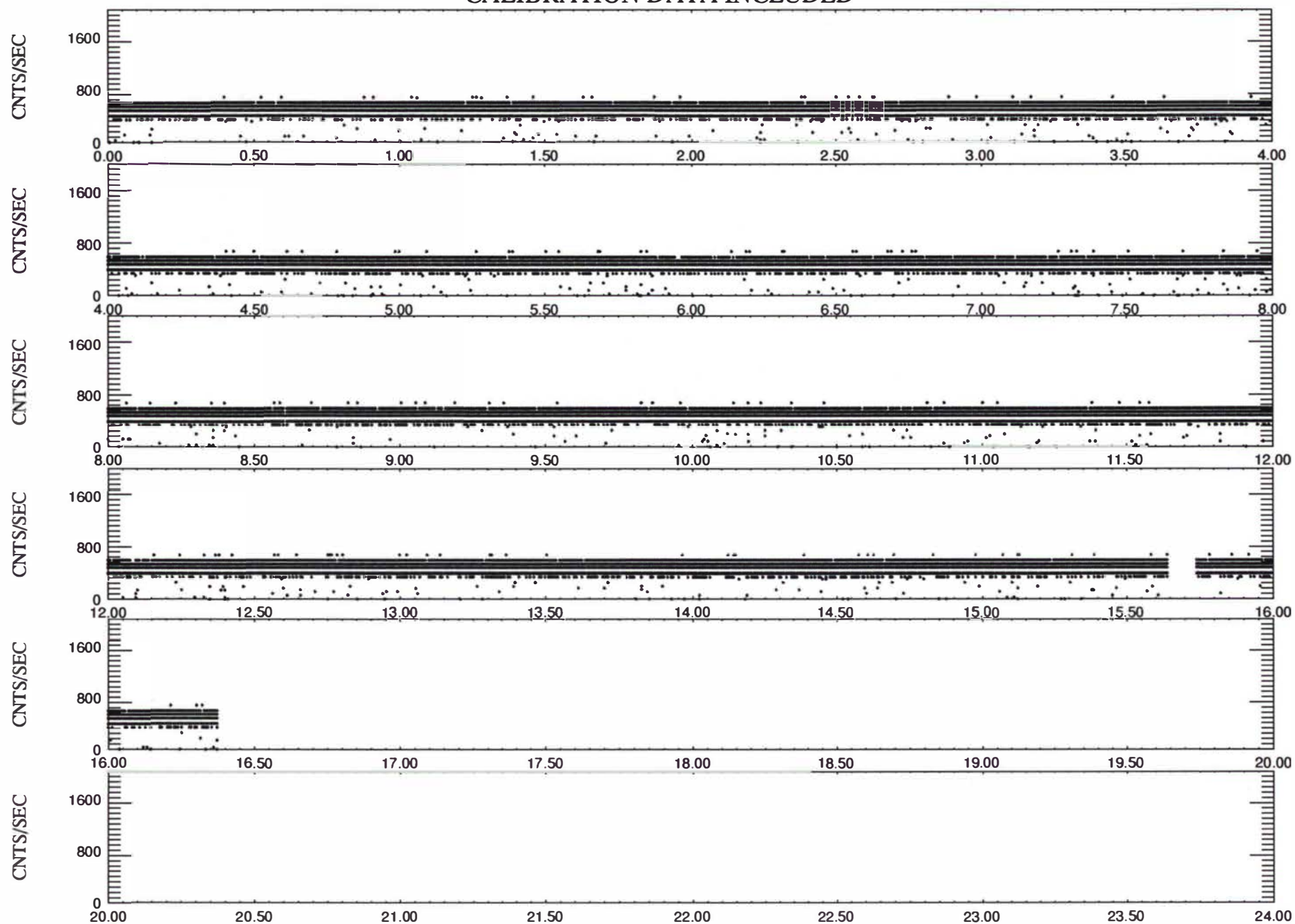
HUS MODES EDR day 228, year 1995 to day 228, year 1995 NO BURST (8)

1/25/96

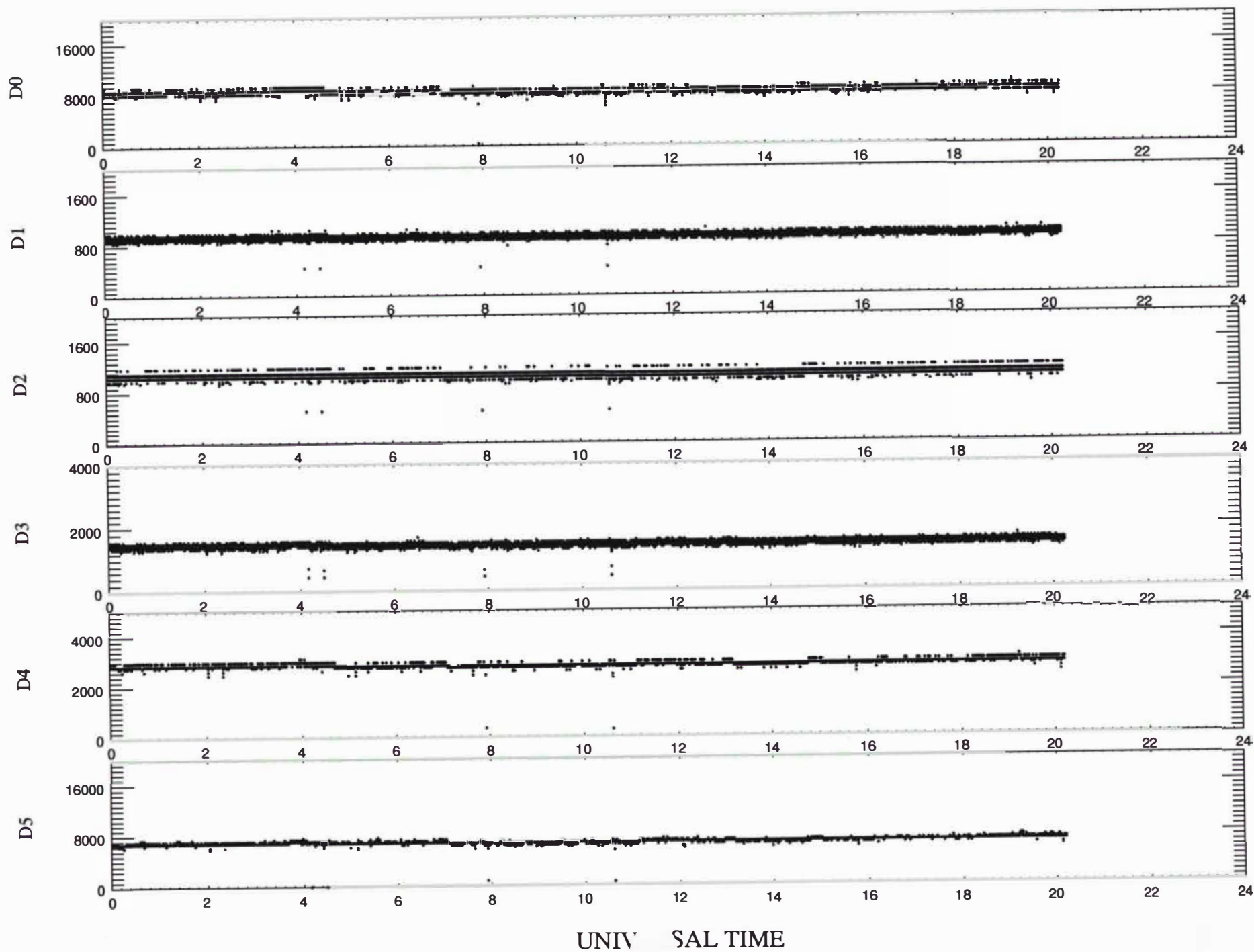


HUS 2A, MODE 1, NOT AVERAGED EDR day 228, year 1995 to day 228, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From RICHARDSON@ssl.msfc.nasa.gov Mon Aug 21 10:22 PDT 1995
Date: Mon, 21 Aug 1995 12:22:13 -0500 (CDT)
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3764

BATSEARCH PROGRAM

BATSE BURST # 3764
EVENT OF 1995 AUG 17 DAY OF YEAR=229
EVENT CROSSING TIME AT BATSE : 73145. S. OR 20:19:05.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 182.000 40.000
BATSE PEAK COUNTING RATE: 4000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 17/ 8/ 95 IS:
RA= 176.640 DEC= 75.064 DIST= 2.386 AU
BATSE-ULYSSES DISTANCE = 356892764. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=144.85 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -973.38 SECS.
CROSSING TIME AT ULYSSES IS 72172. S. OR 20:02:51 +/- 154.21 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 17/ 8/ 95 IS:
RA= 194.991 DEC= -6.338 DIST= 1.948 AU
MARS-BATSE DISTANCE = 291375008. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=132.14 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -652.07 SECS.
CROSSING TIME AT MARS IS 72493. S. OR 20:08:12 +/- 115.23 SECONDS

BATSE BURST TRIGGER

NO.: 3764

TIME: TJD=9946 SECONDS=73145

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=82.4 AZIMUTH=23.3 ERROR=2.8 DEGREES

COMMENTS:

GRB. SPIKEY, DUR.~30SEC. NOT VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3764	950817	9946	73145	4000	182	+40	30

25 / 8 / 95

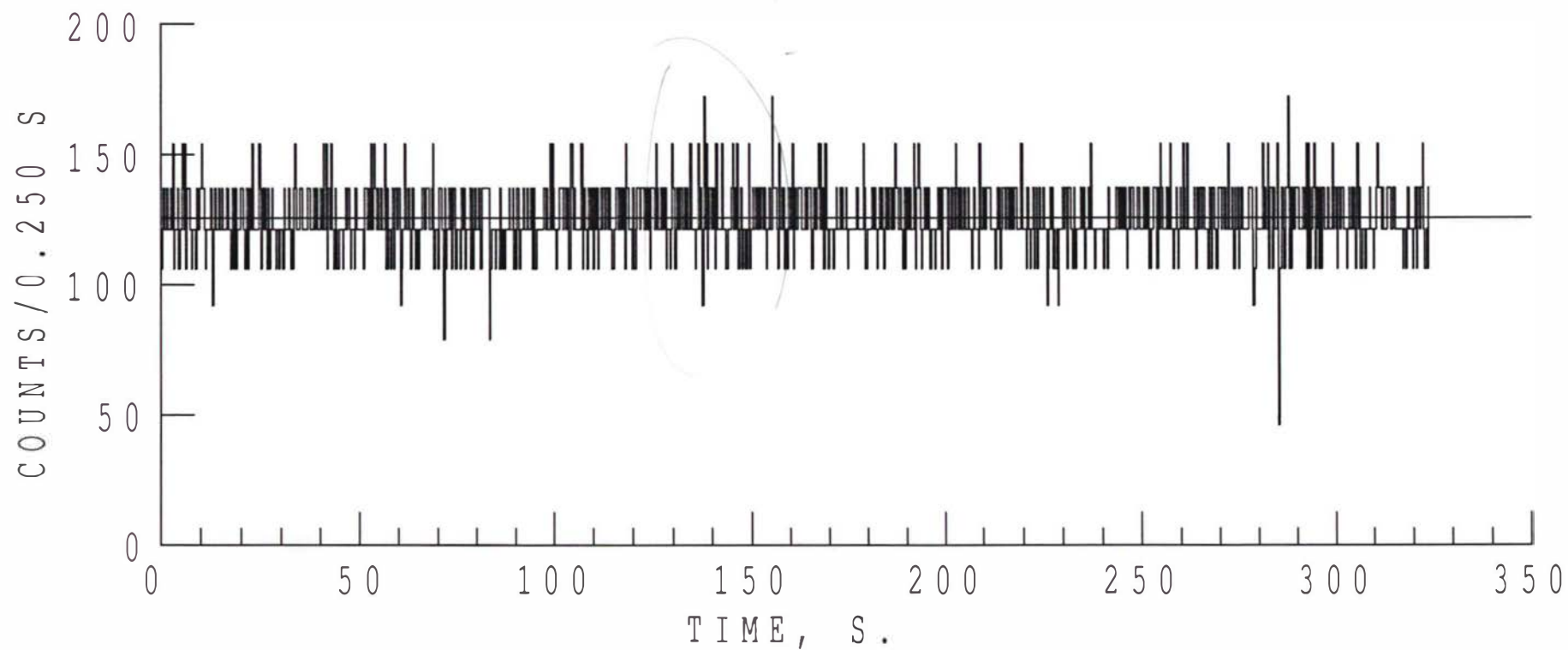
ULYSSES RT

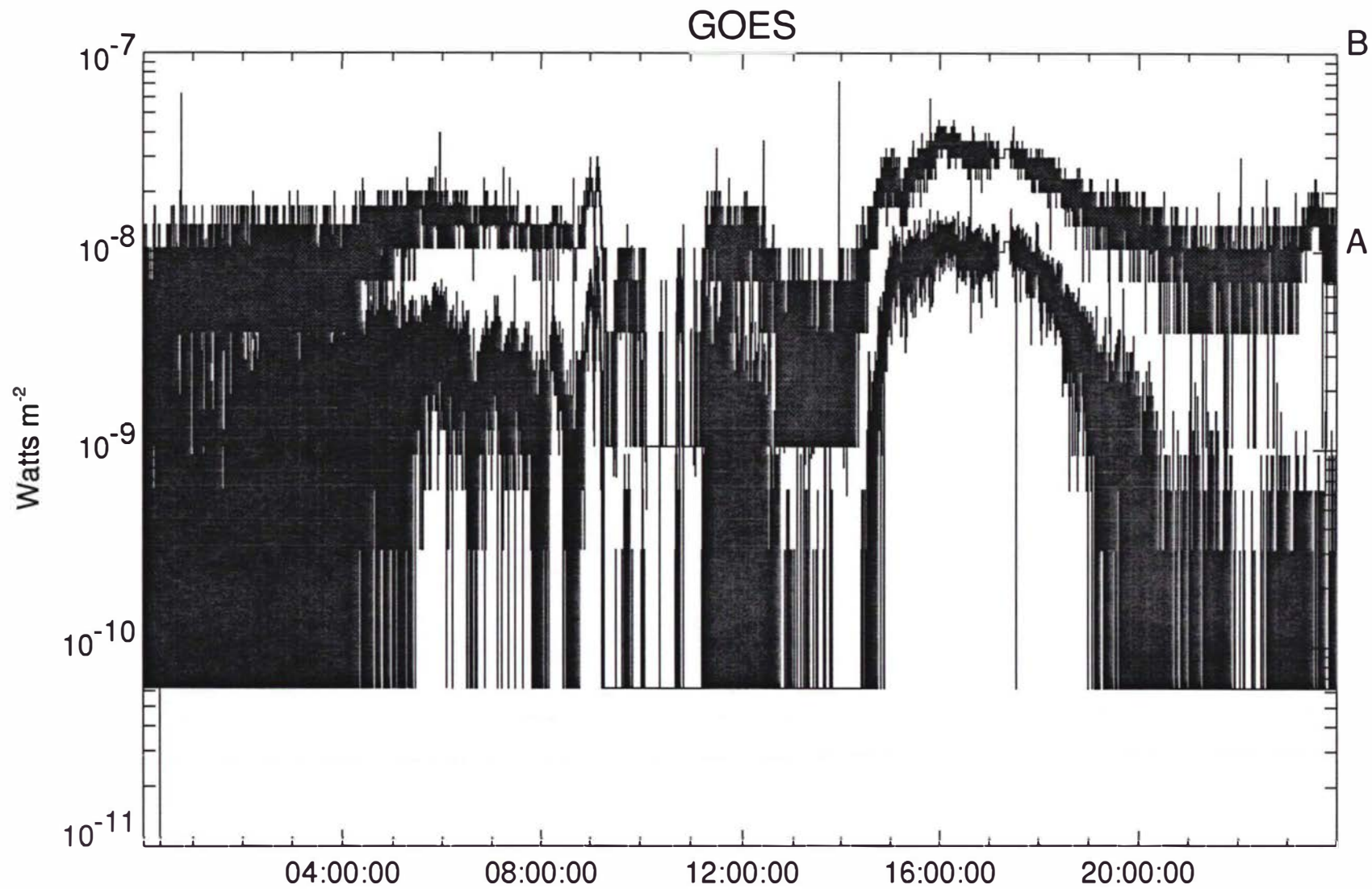
17 / 8 / 95 72000.016 s

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS





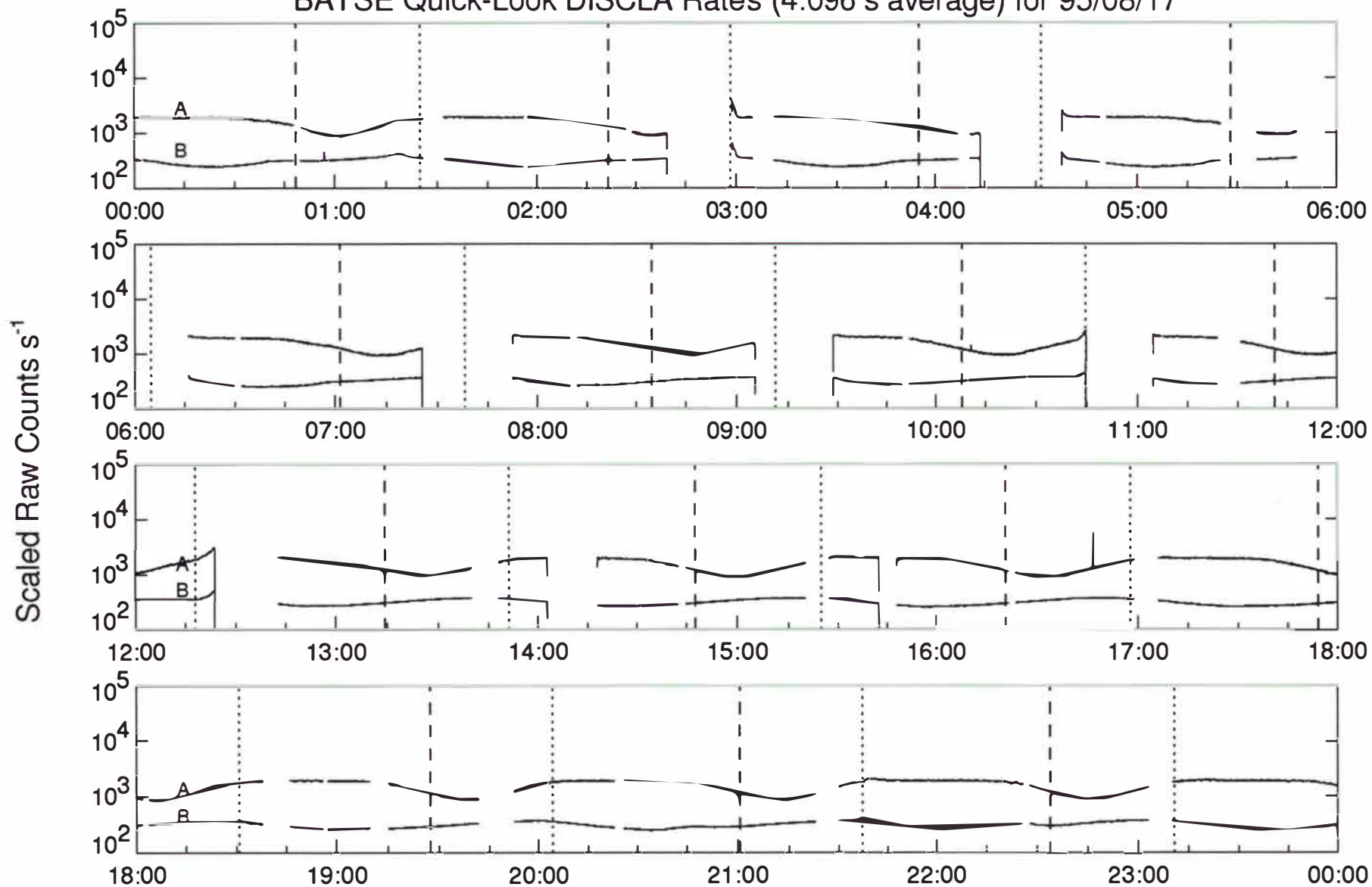
Data Start: 95/08/17, 0000:02

Plot created: 95/08/19, 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 95/08/17



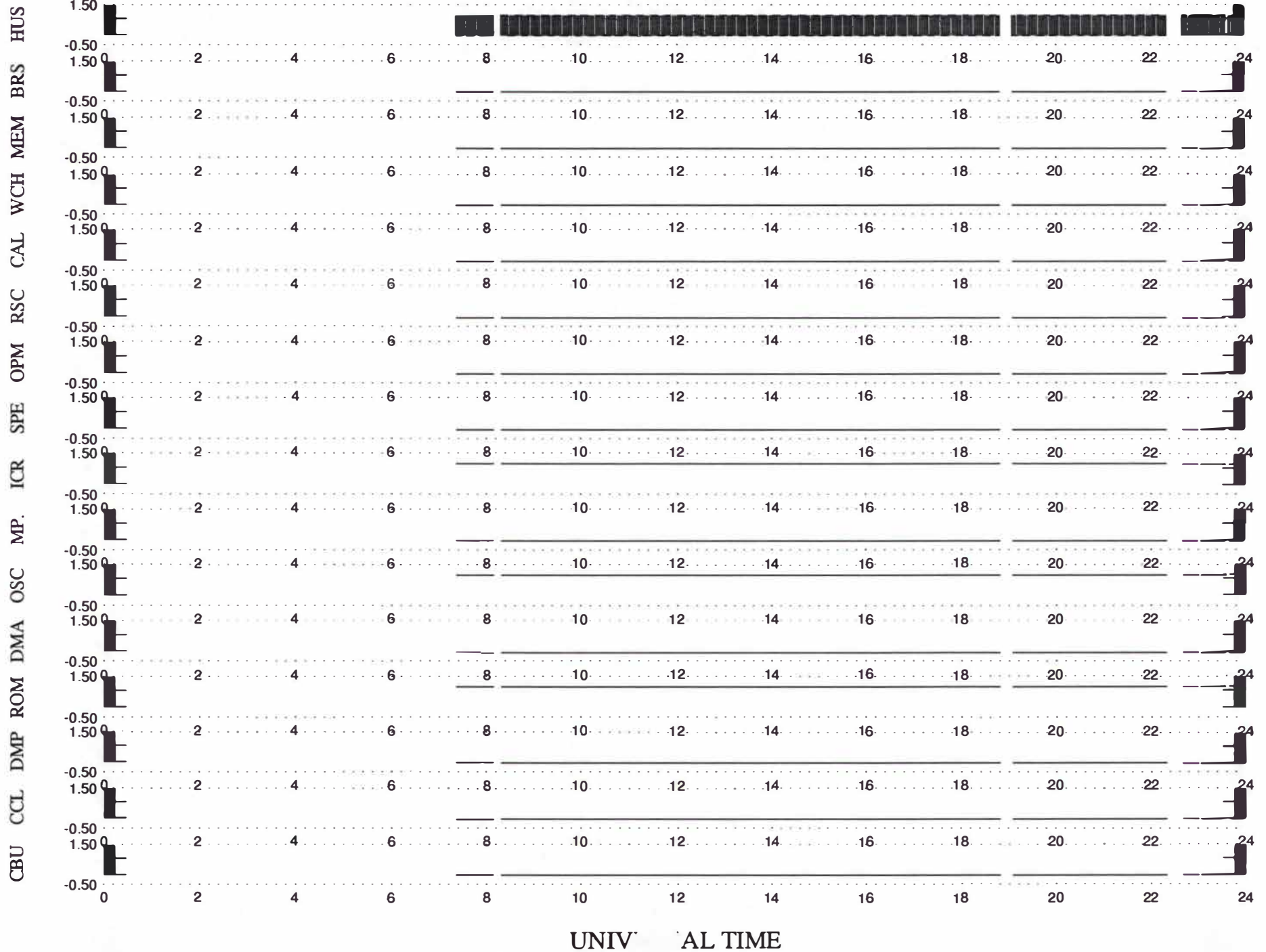
Current Time: 95/08/19, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

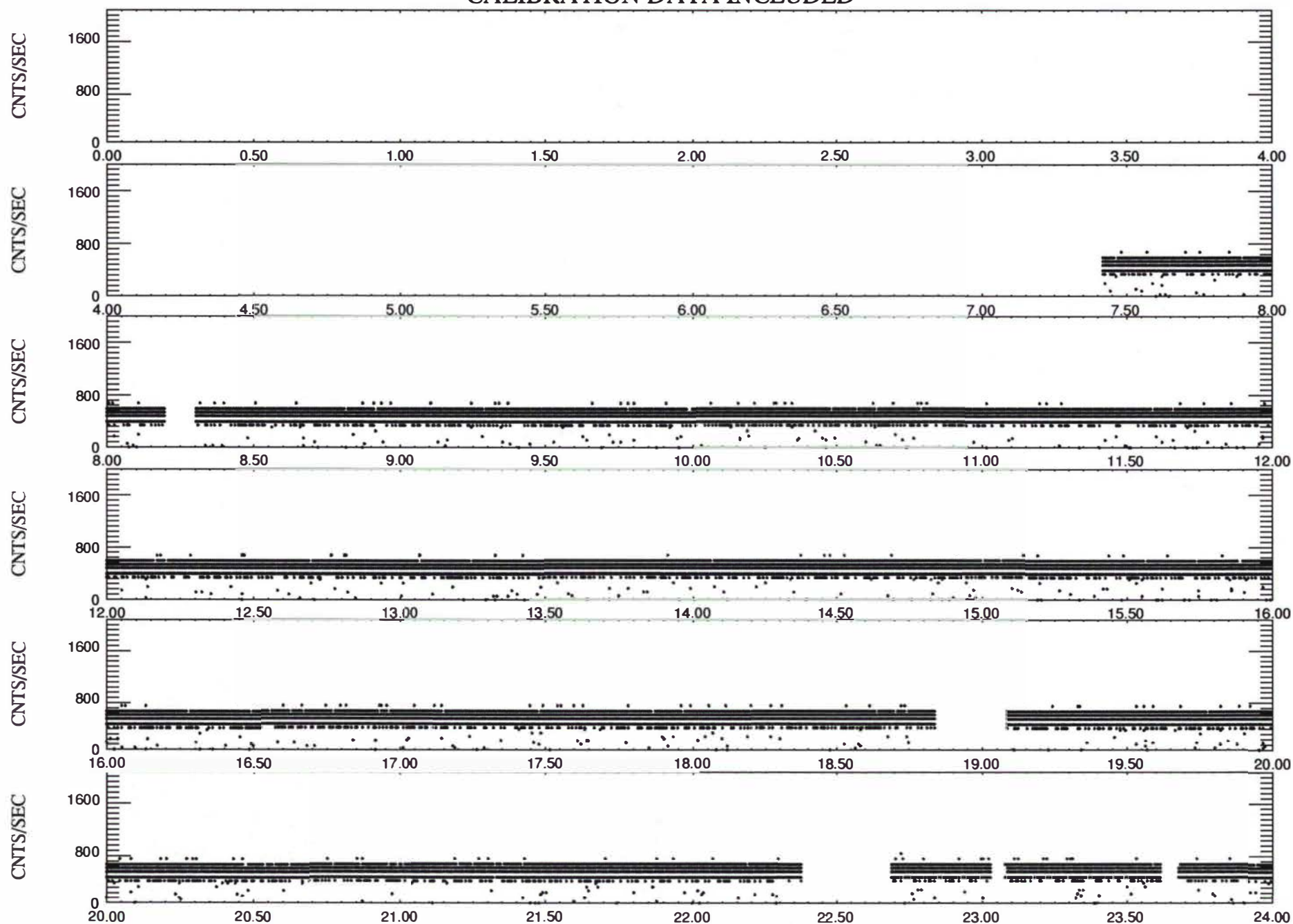
HUS MODES EDR day 229, year 1995 to day 229, year 1995
NO BURST (8)

1/25/96

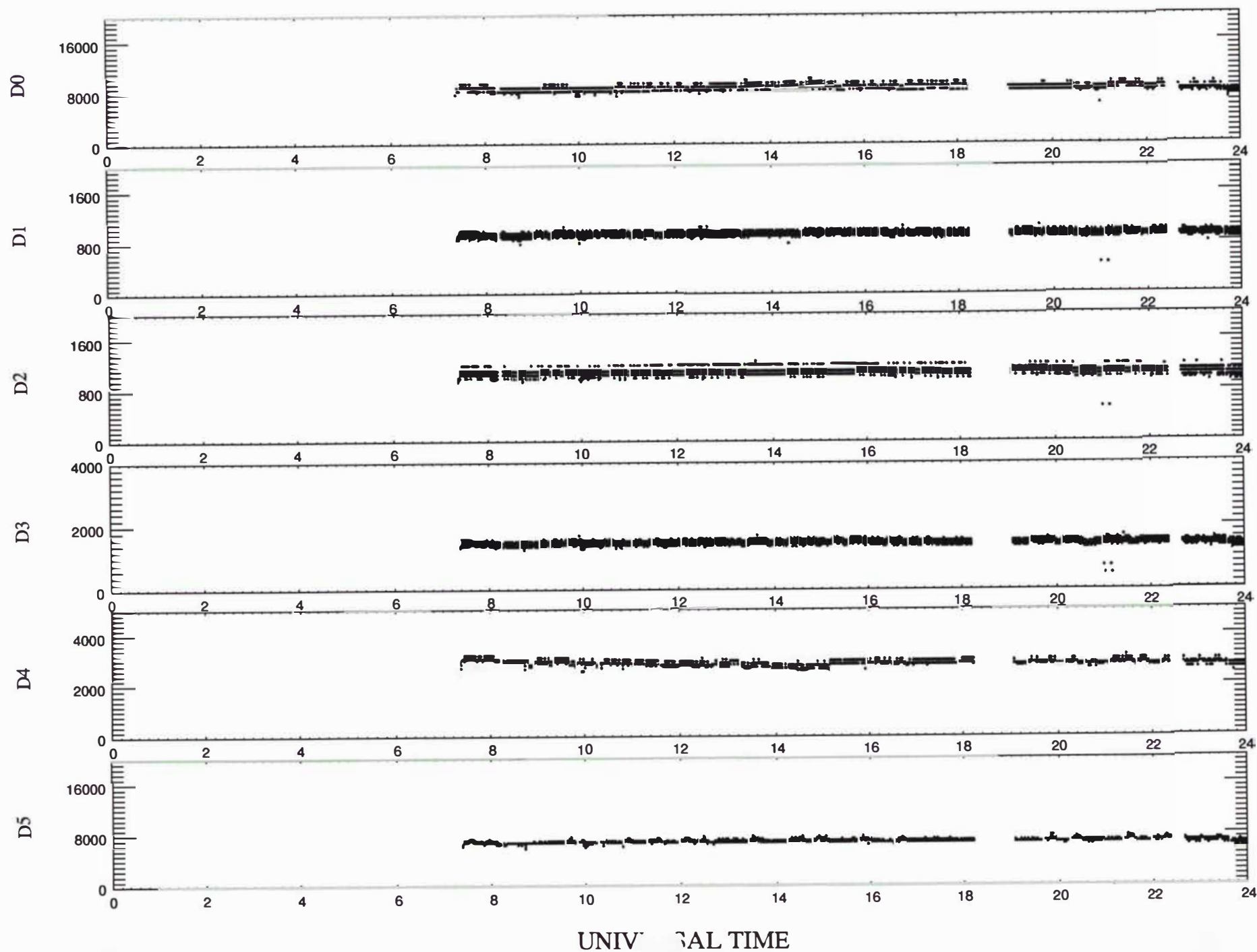


HUS 2A, MODE 1, NOT AVERAGED EDR day 229, year 1995 to day 229, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME



From HAGEDON@fender.msfc.nasa.gov Mon Aug 21 09:35 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 21 Aug 1995 11:35:29 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3765

BATSEARCH PROGRAM

BATSE BURST # 3765
EVENT OF 1995 AUG 18 DAY OF YEAR=230
EVENT CROSSING TIME AT BATSE : 5002. S. OR 01:23:22.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 279.000 34.000
BATSE PEAK COUNTING RATE: 86000 C/S

Trigger

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 18/ 8/ 95 IS:
RA= 176.867 DEC= 74.973 DIST= 2.387 AU
BATSE-ULYSSES DISTANCE = 357156026. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=119.66 DEG!
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -589.59 SECS.
CROSSING TIME AT ULYSSES IS 4412. S. OR 01:13:32 +/- 220.78 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 18/ 8/ 95 IS:
RA= 195.573 DEC= -6.593 DIST= 1.953 AU
MARS-BATSE DISTANCE = 292166080. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 91.72 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -29.30 SECS.
CROSSING TIME AT MARS IS 4973. S. OR 01:22:52 +/- 168.68 SECONDS

BATSE BURST TRIGGER

NO.: 3765

TIME: TJD=9947 SECONDS=05002

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=122.3 AZIMUTH=88.1 ERROR=0.35 DEGREES

COMMENTS:

BURST. STRONG, COMPLEX EVENT. TOTAL DUR.~100 SEC. MAX AT ~T+66 SEC.
TRIGGERED ~50 SEC PRIOR TO MAIN EPISODE. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3765	950818	9947	05002	86000	279	+34	100

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 khurley@sunspot Tue Sep 26 08:37 PDT 1995
Date: Tue, 26 Sep 1995 08:24:27 -0700
From: khurley@sunspot (Kevin Hurley)
To: butterworth@lheavx.gsfc.nasa.gov, khurley@sunspot
Subject: Konus triggers in August

Dear Paul,

Here's the completed list. The data gap on the 9th is likely to be filled when we get our final data CD in a month or so.

Kevin

```
> -----
> Konus Triggers
> -----
>
>
> KONUS#      Date      Time      Event      T#      B#      U#
> detector
>
> 136      8/02      22:25:43.788      particle (near Earth)      n/a      n/a      n/a
> 137      02      23:00:16.156      particle (near Earth)      n/a      n/a      n/a
> 138 N 04      01:58:55.704      strong,multi-peak,3sGRB      -      3734      TRIGGER
> 139 N 04      09:02:41.958      weak,multi-peak,120sGRB      -      -      RI
> 140 N 04      12:36:17.251      weak,single-peak,0.5sGRB      -      3735      NO
> 141 N 05      00:04:43.498      weak,multi-peak,25sGRB      -      -      NO
> 142 S 05      03:44:14.144      strong,single-peak,0.1sGRB      326      3736      RI
> 143 S 09      23:52:25.672      strong,double-peak,4sGRB      329      3750      DATA GAP
> 144 N 18      01:24:25.640      v.strong,single-peak,10sGRB      330      3765      TRIGGER
>      45      20      00:45:06.928      particle (near Earth)      n/a      n/a      n/a
>      46      20      14:24:17.743      particle (near Earth)      n/a      n/a      n/a
> 147 S 22      03:49:10.530      v.strong,multi-peak,30sGRB      336      3767      TRIGGER
> 148 N 25      04:24:23.399      moderate,multi-peak,120sGRB      -      -      RI
>
```

Date:

Feb 18 '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*

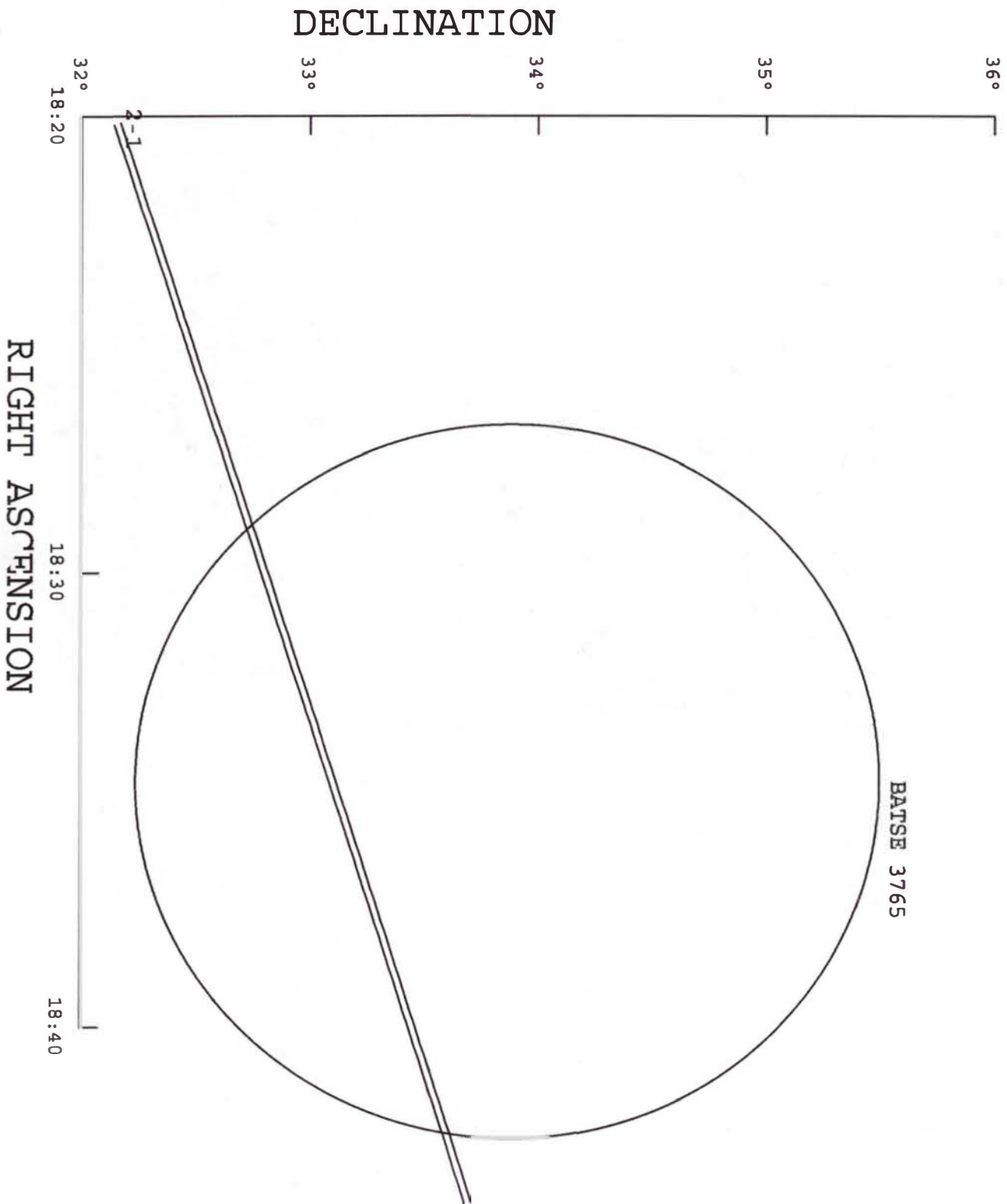
3. PVO Data

- ☐ 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 AUG 18, 1995 1:14

27/ 3/98



ULYSSES

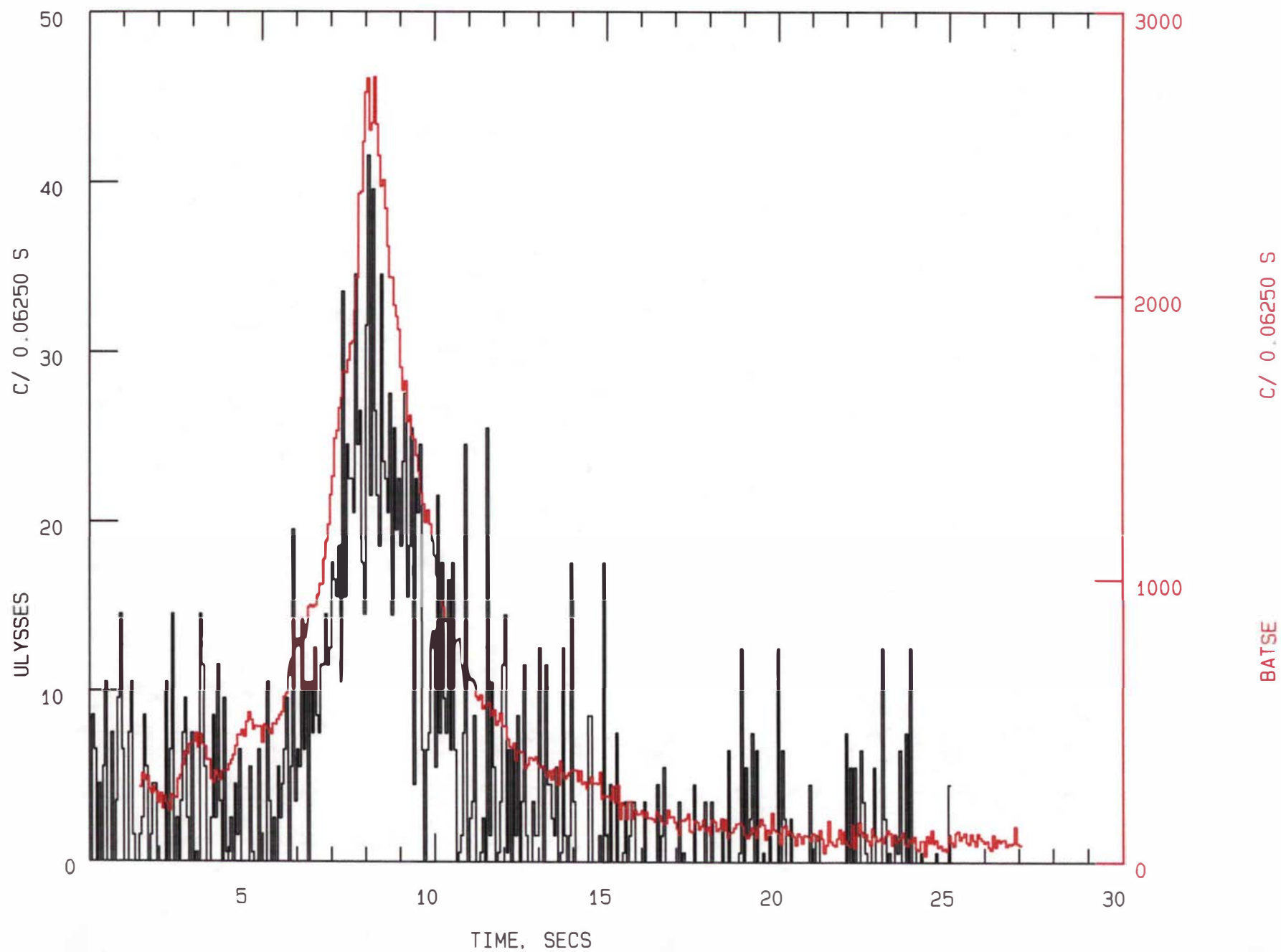
-BATSE

CORRELATION

18/08/95

4491.431

27/ 3/98



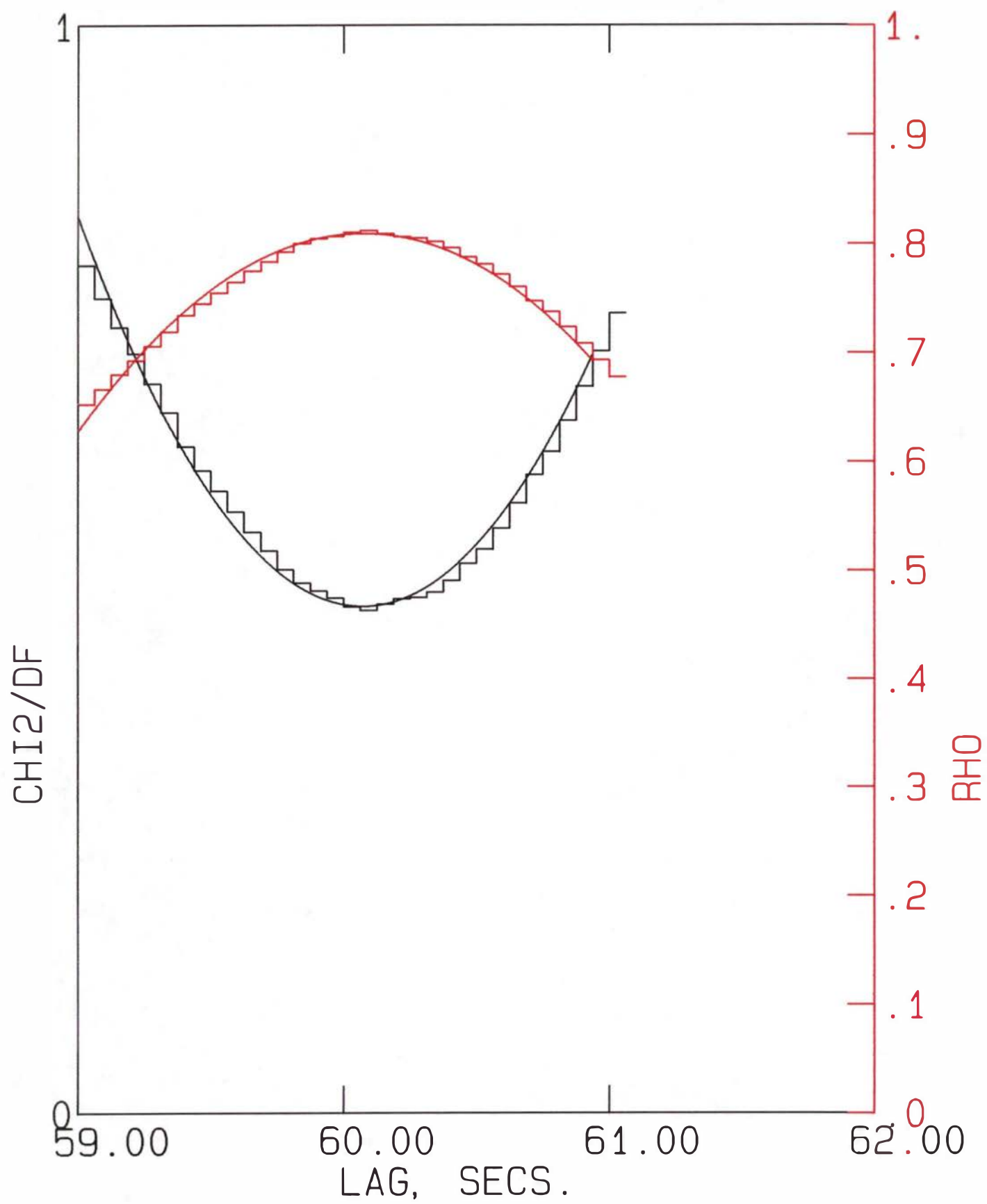
ULYSSES

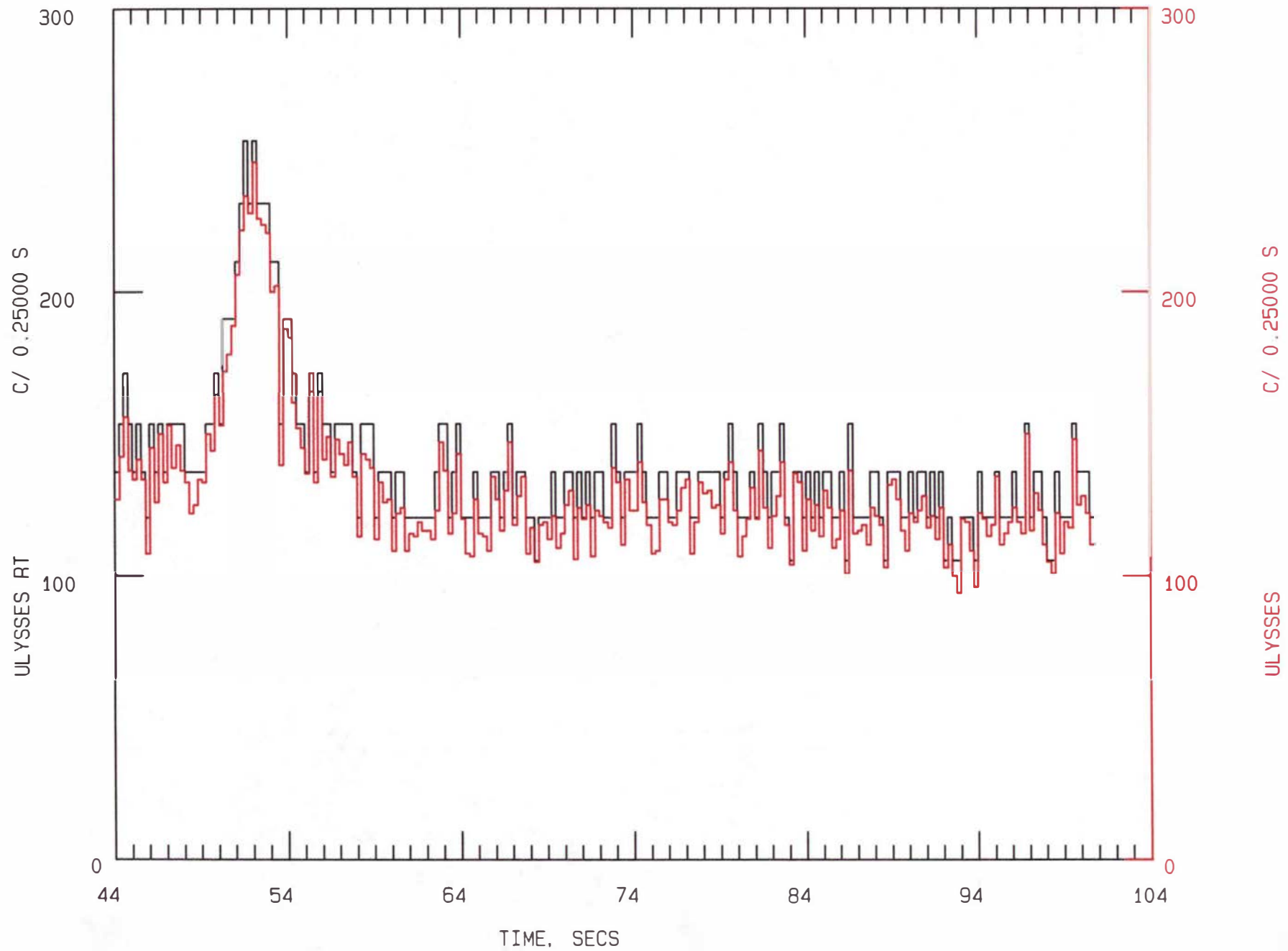
-BATSE

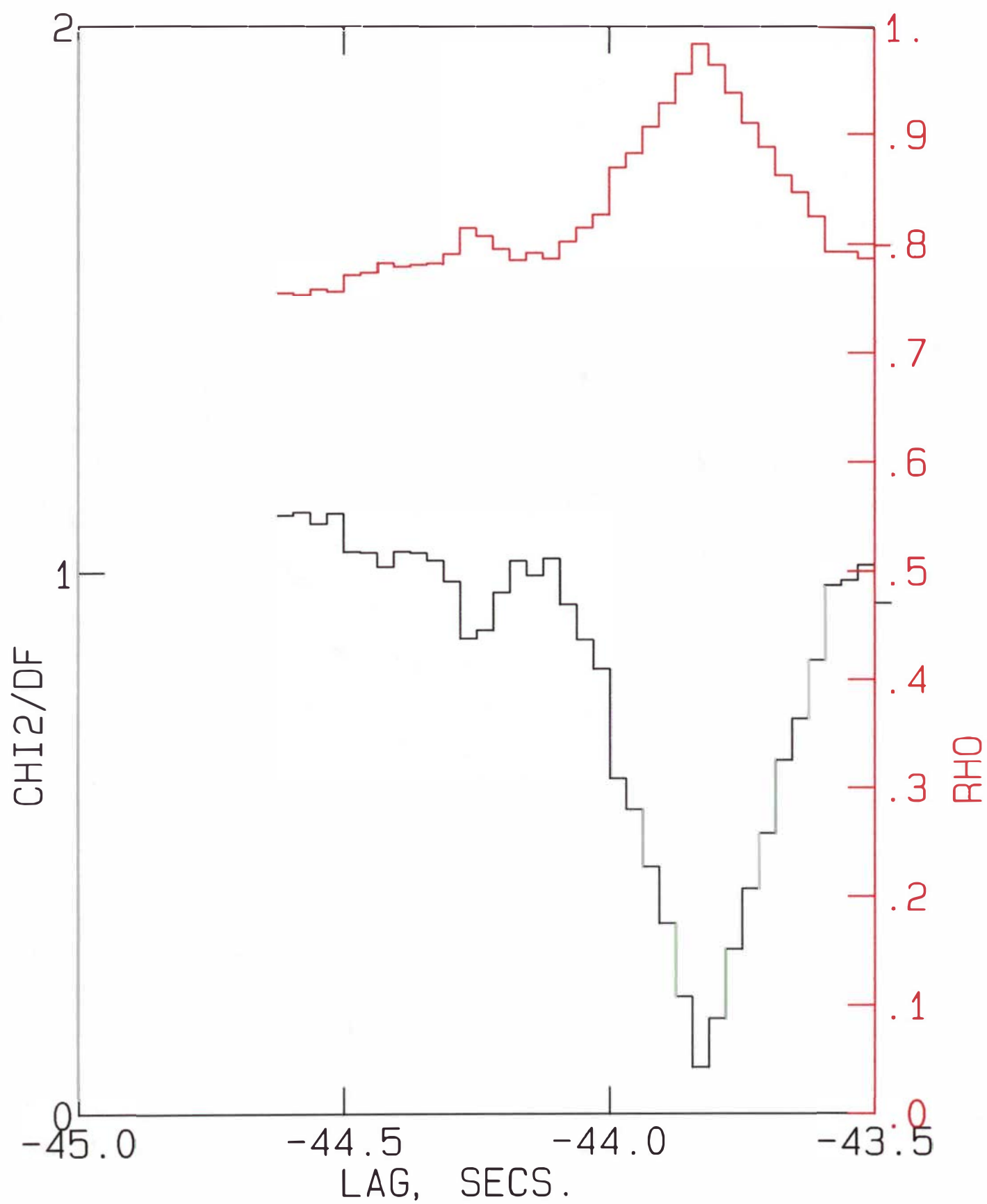
CORRELATION

18/08/95

4491.431



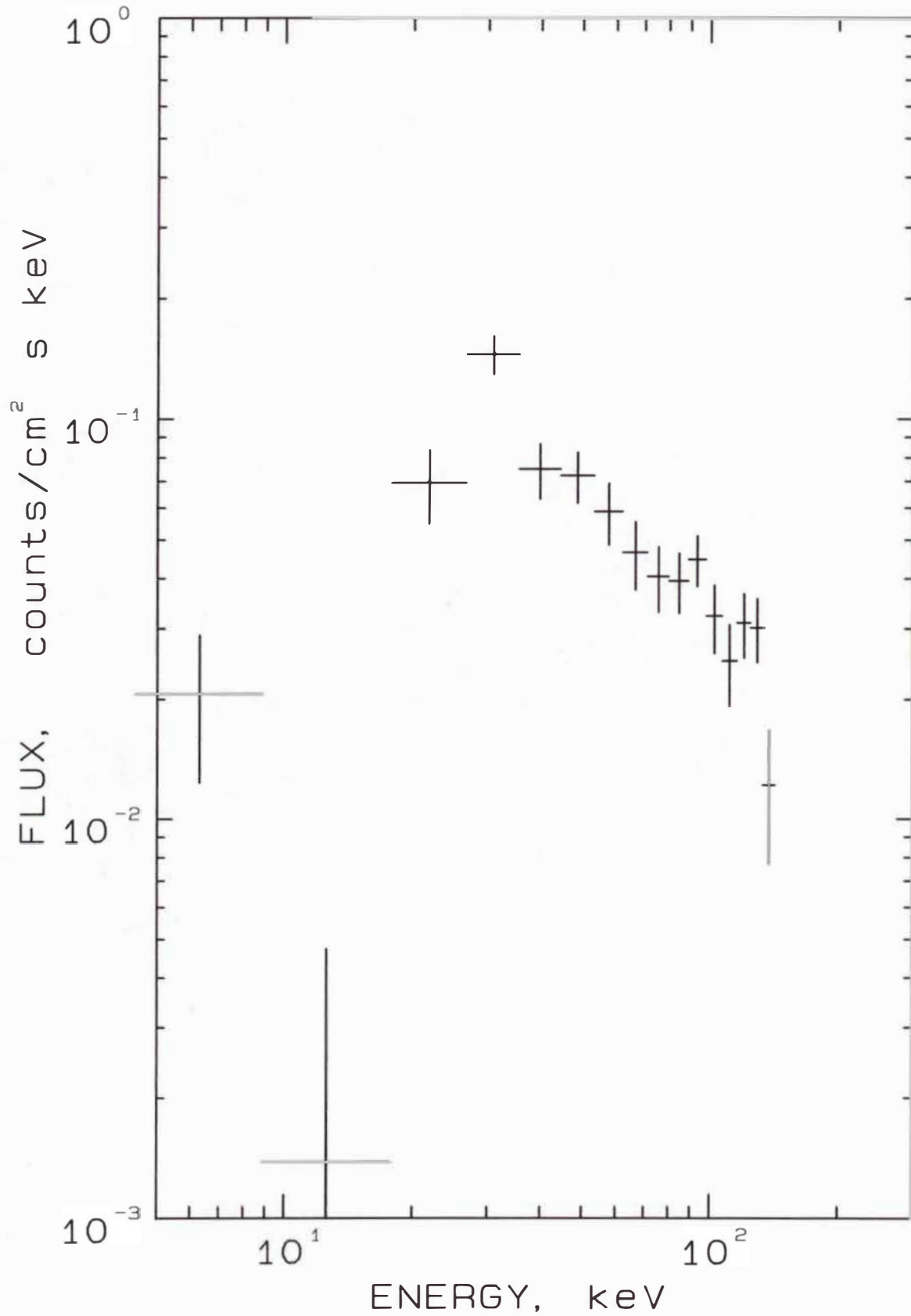




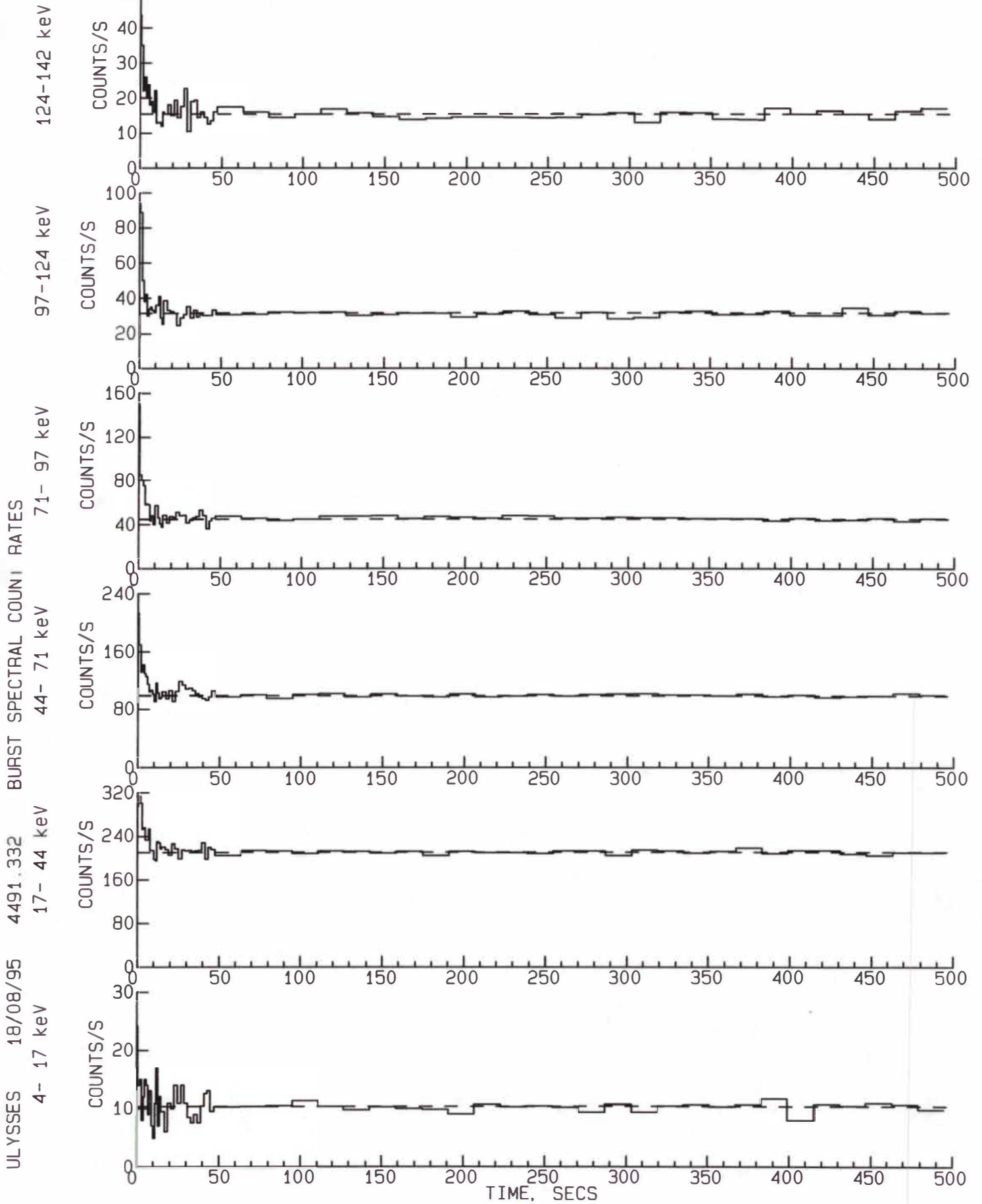
ULYSSES 18/08/95 4491.332

27/ 3/98

SPECTRUM INTEGRATED OVER 20.8 SECONDS, INTERVALS 2 TO 20



27 / 3 / 98



ULYSSES

18/08/95

Ttrig= 4491.431

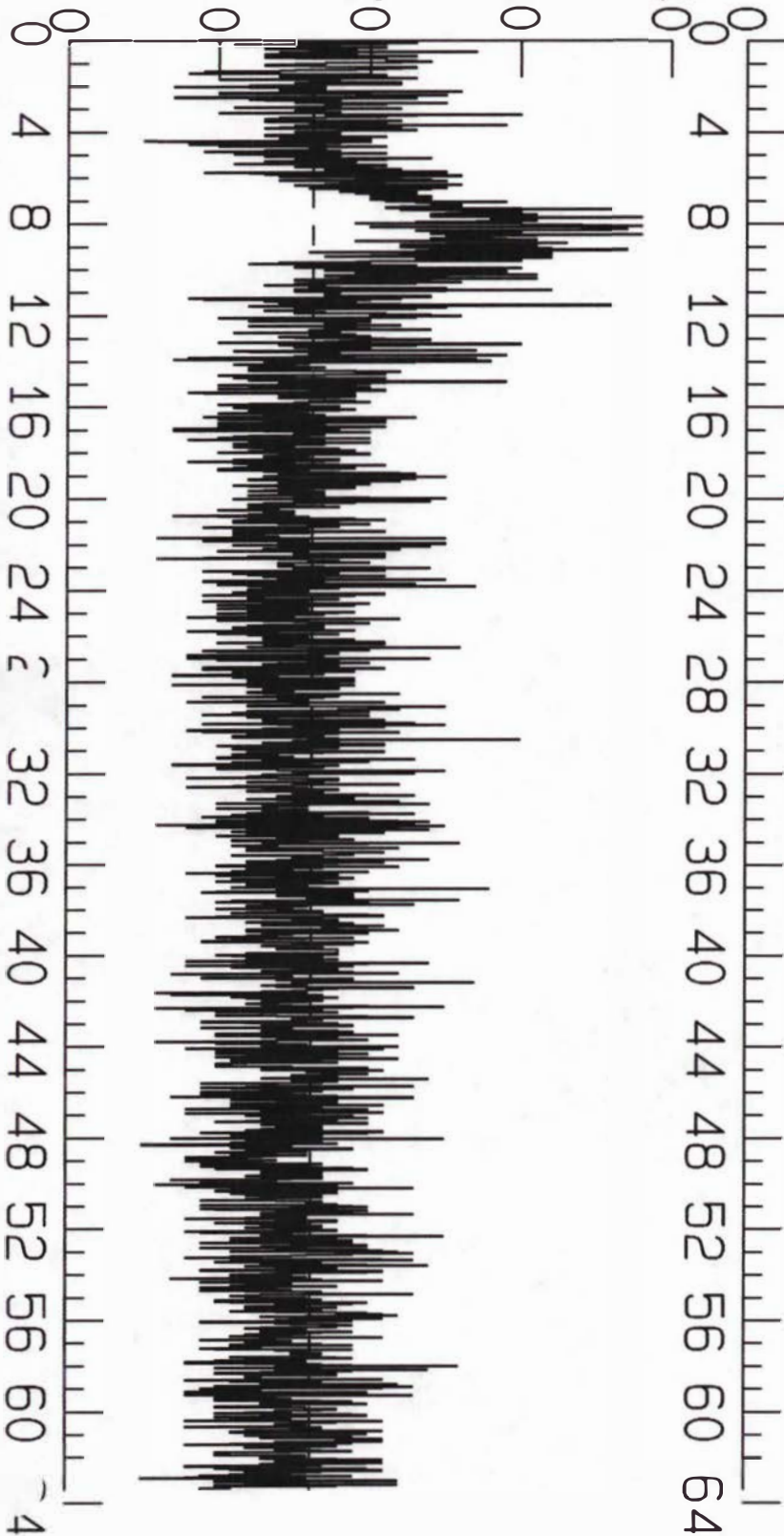
21- 142 keV

COUNTS/0.031 S

COUNTS/0.125 S

0 10 20 30 40

0 50 100 150



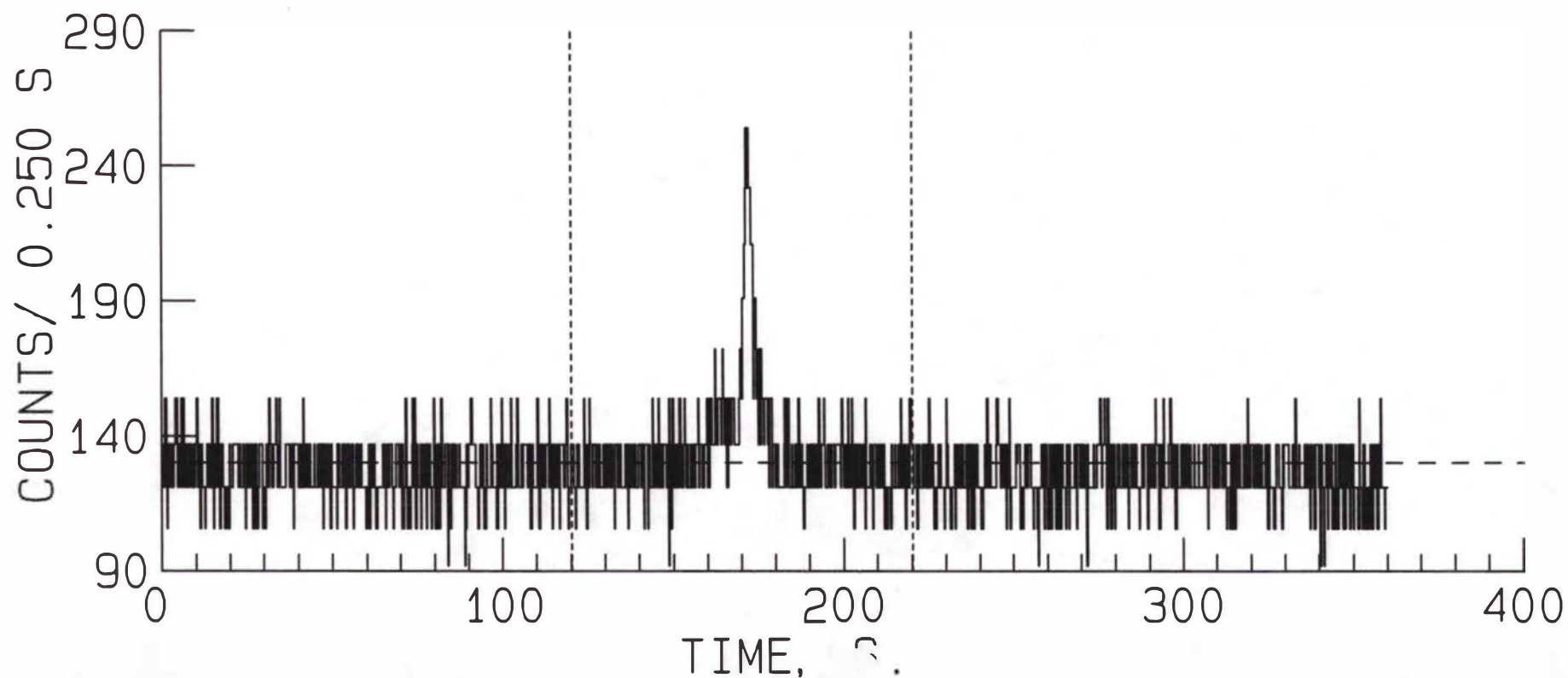
ULYSSES RT

27 / 3 / 98

18 / 8 / 95 4320.089 s

21- 142 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



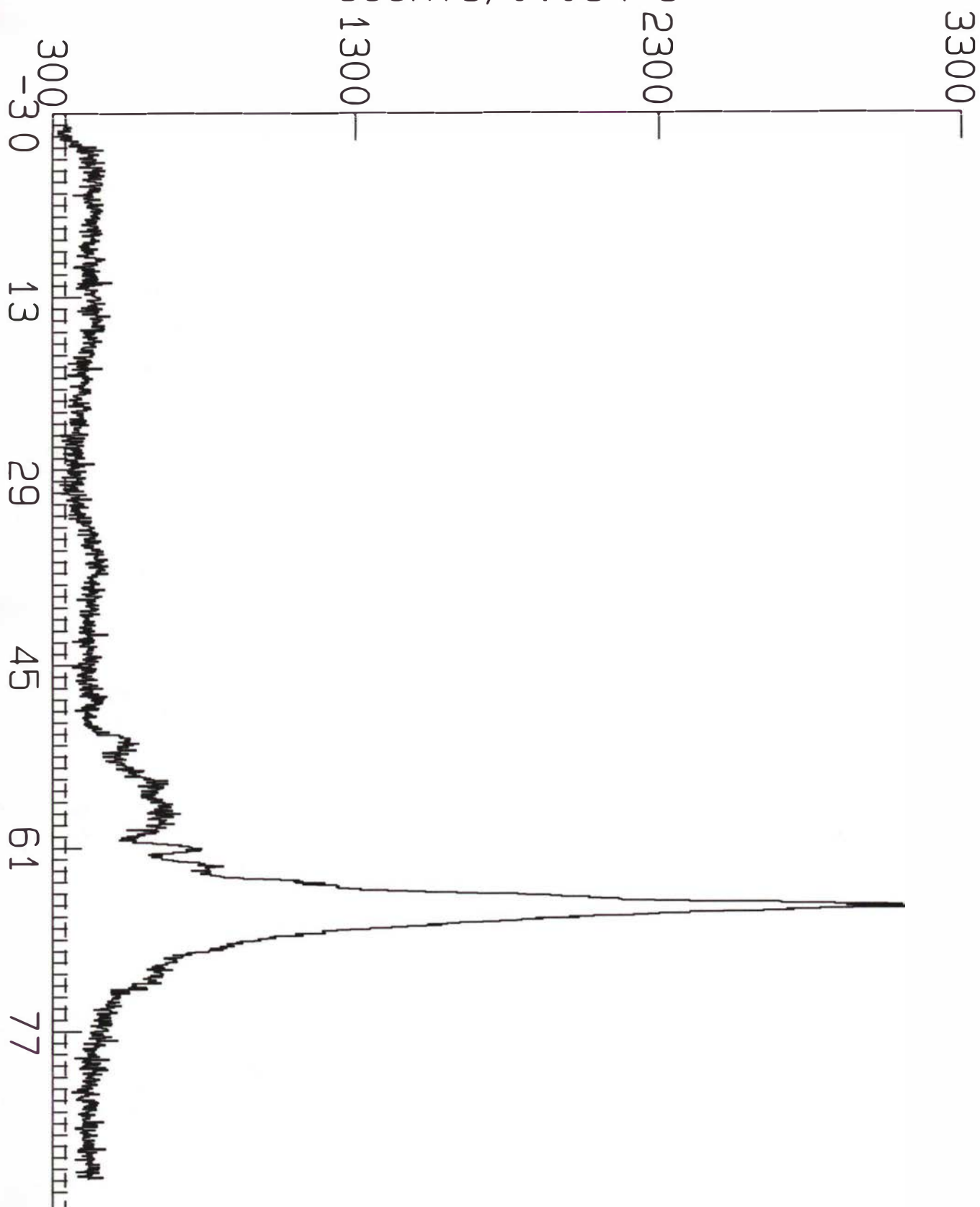
BATSE

18/08/95

5002.930

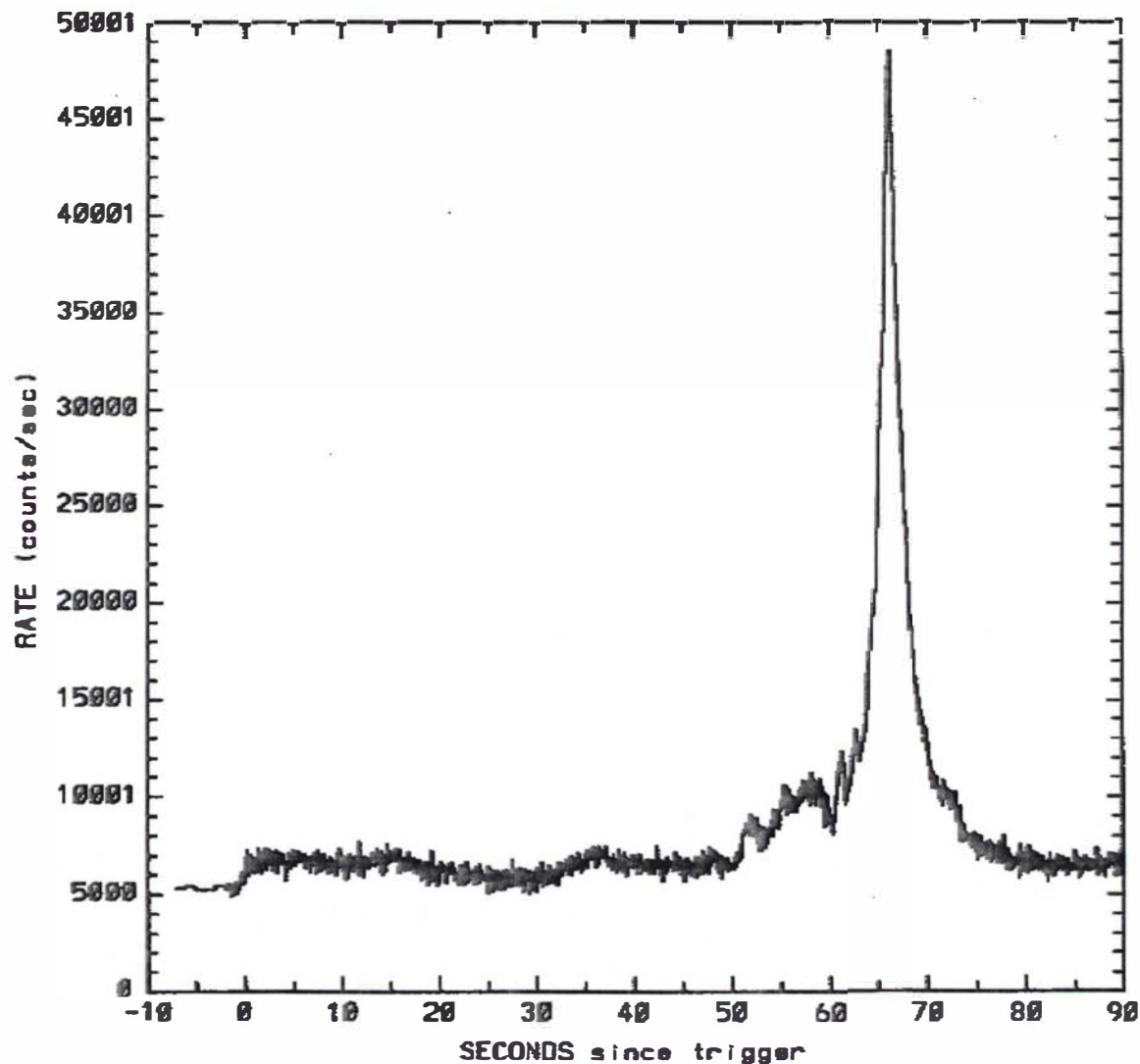
25- 100 keV

COUNTS/0.064 S



5 / 10 / 95

DISCSC Data for K. Hurley, No. 3765

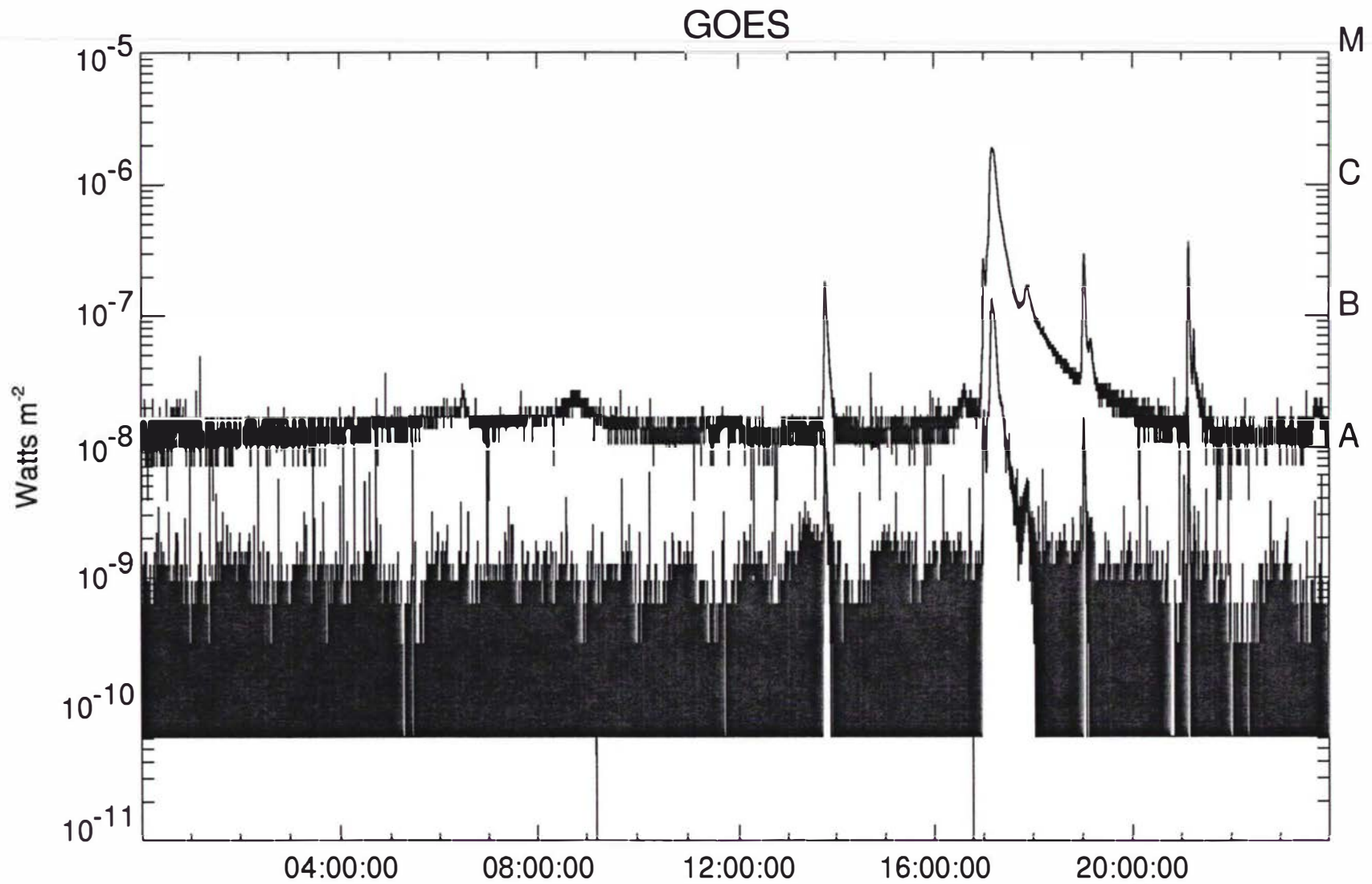


1-SEP-1995 09:52:56

Created by MDPS 80
(Burst Display)
Version 62.25

Trigger # = 3765

Trigger Time:
9947 / 5002.930Burst Data Type:
DISCSCDeadtime
Corrected: NBackground Data
Type: PREB + DISCLAMinimum Integ. Time:
0.064 secondsDetectors (7..0):
--5--1-Discriminators:
1 1 . 2 1Quality Mask:
B0ISP1



Data Start: 95/08/18, 0000:00

Plot created: 95/08/20, 0529

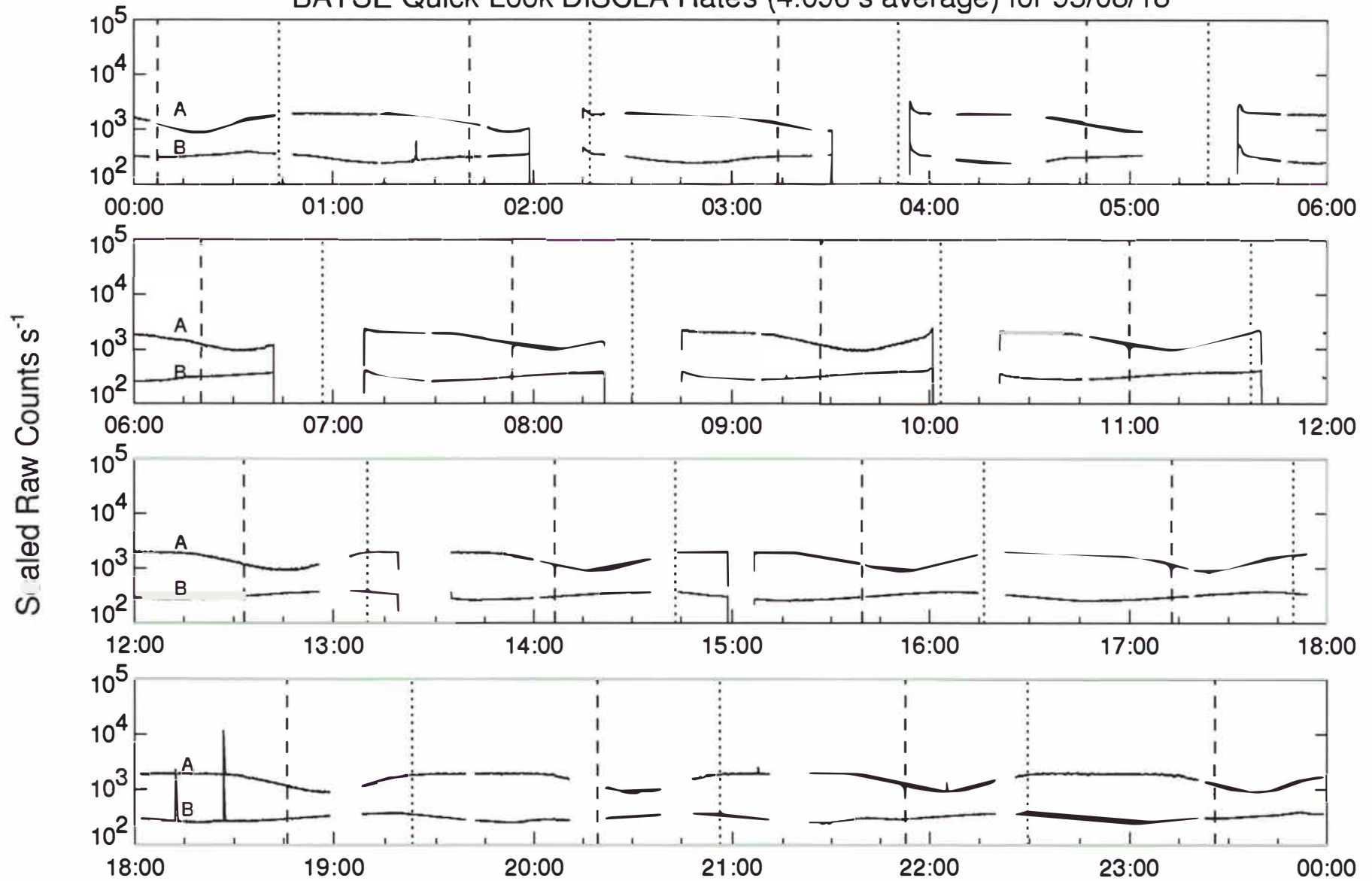
Channel 1 (1.0 - 8.0 Angstroms)

Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms)

Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/18



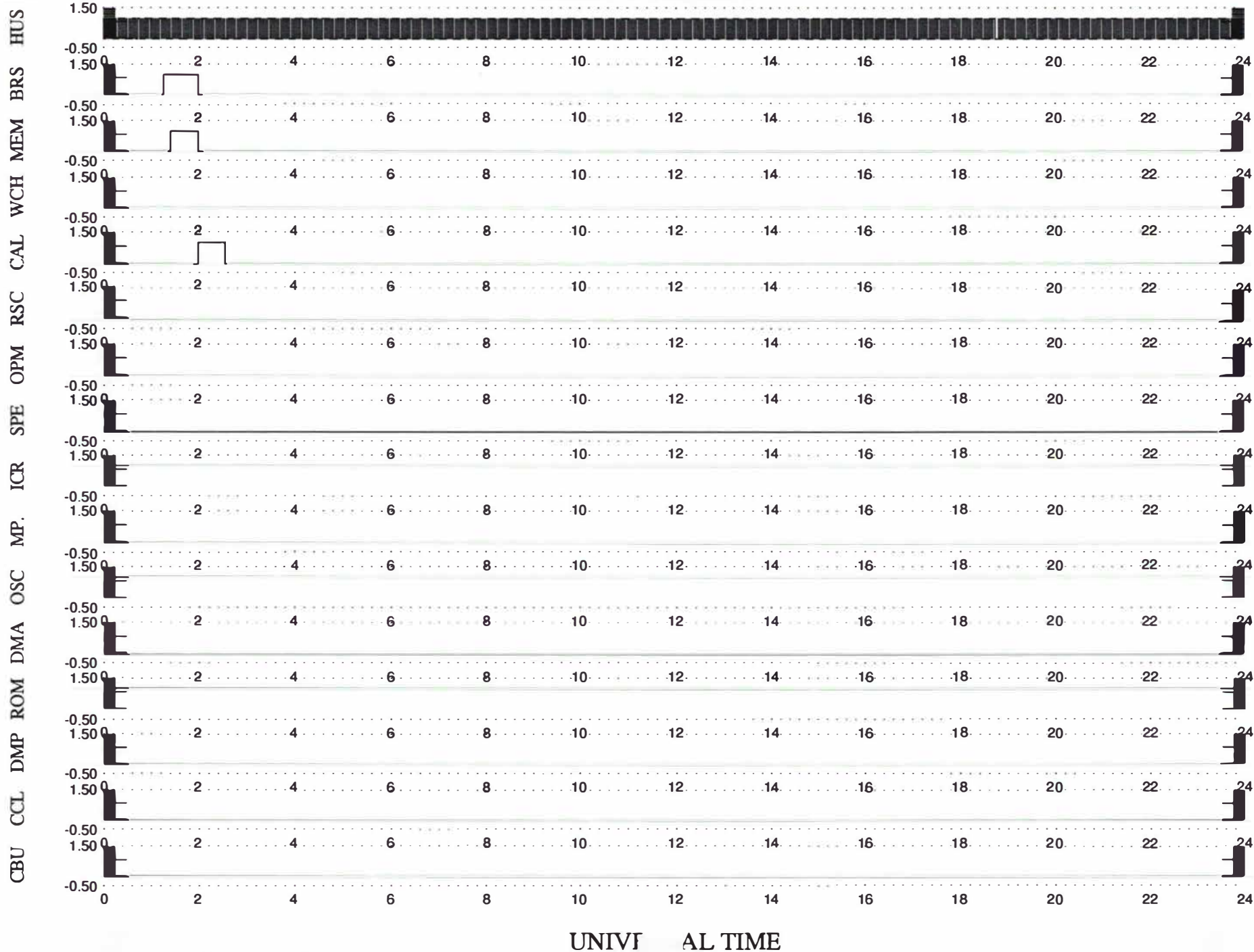
Current Time: 95/08/20, 0530 EDT
A: Channel 0 Most Sunward LAD
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

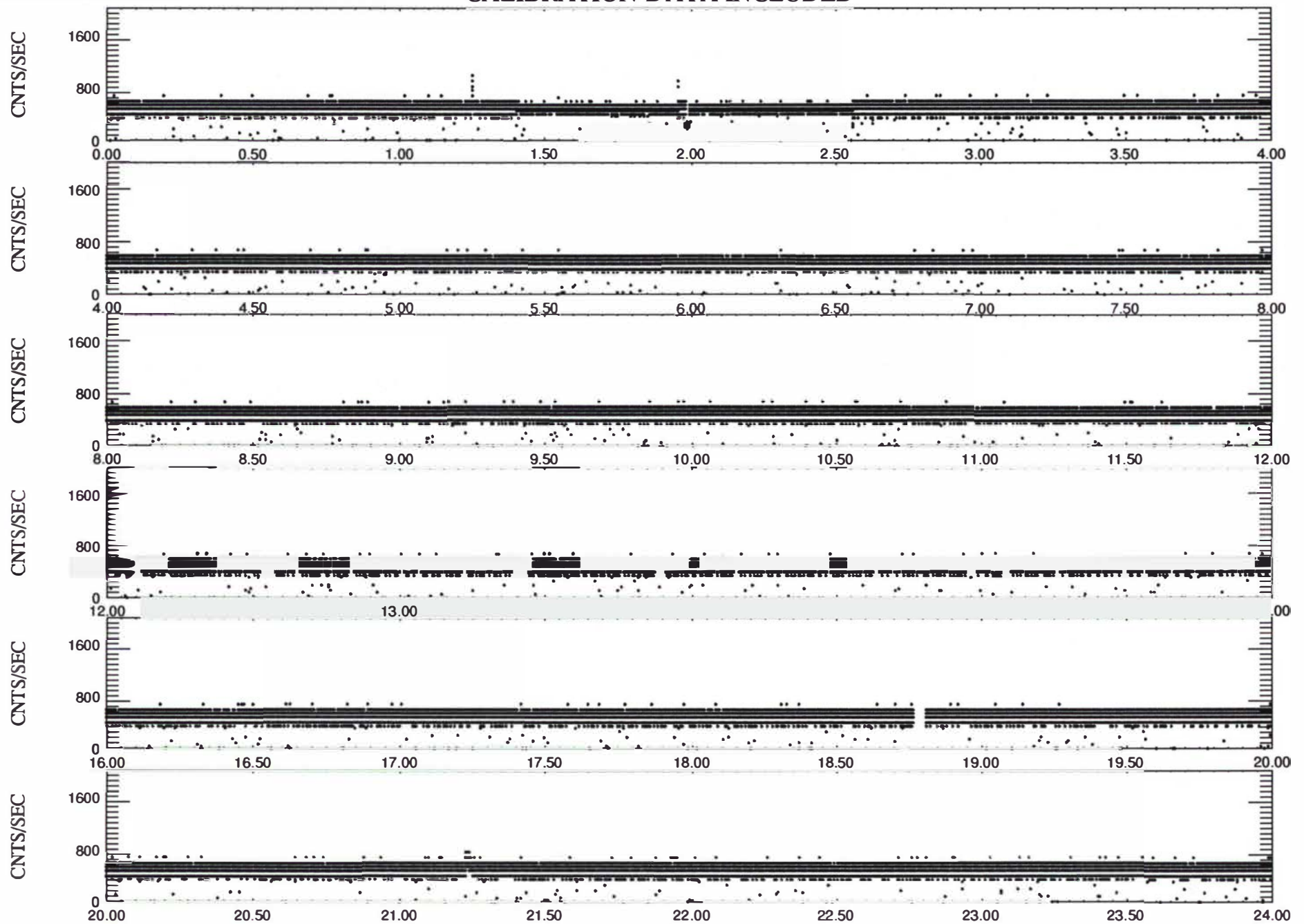
HUS MODES EDR day 230, year 1995 to day 230, year 1995
BURSTNUMBER 9

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 230, year 1995 to day 230, year 1995
CALIBRATION DATA INCLUDED

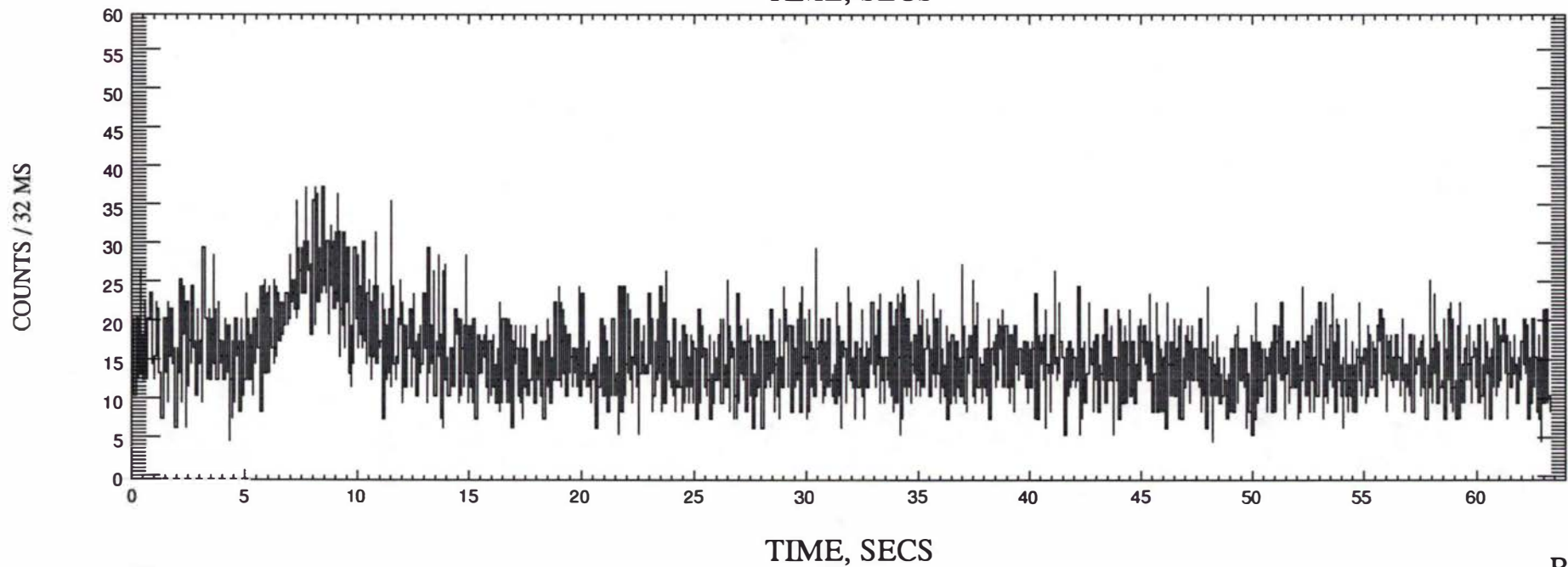
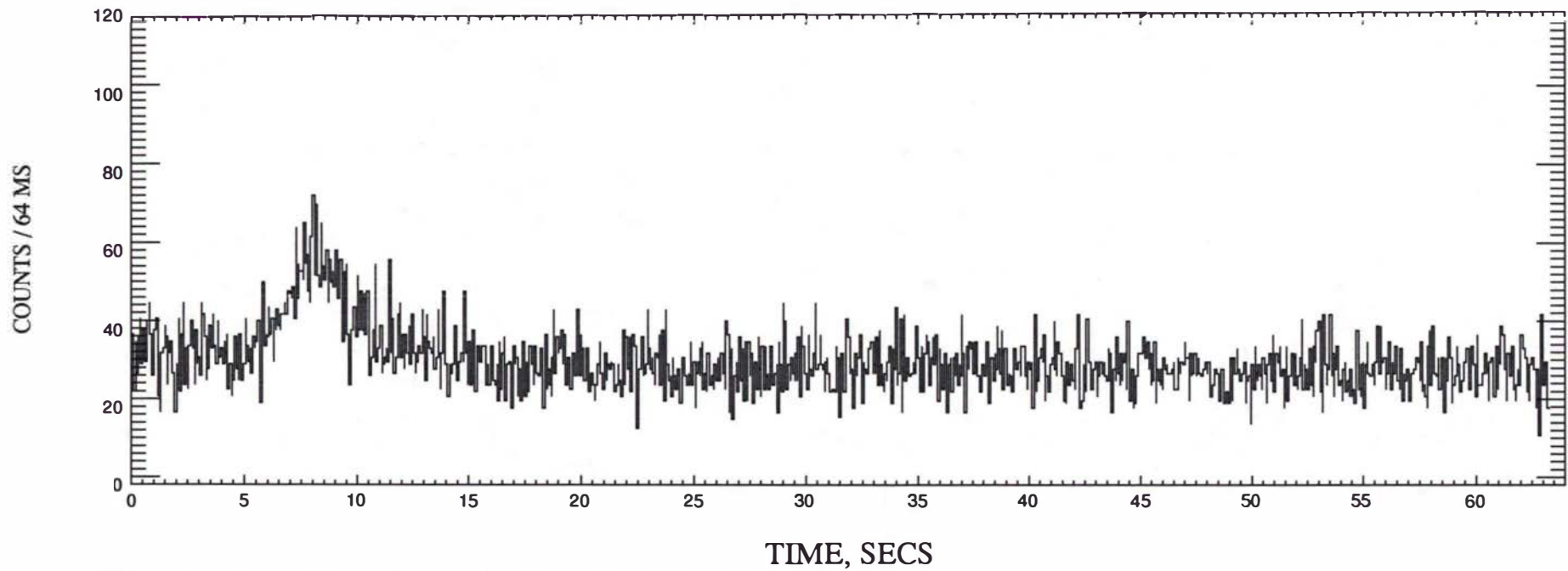
1/25/96



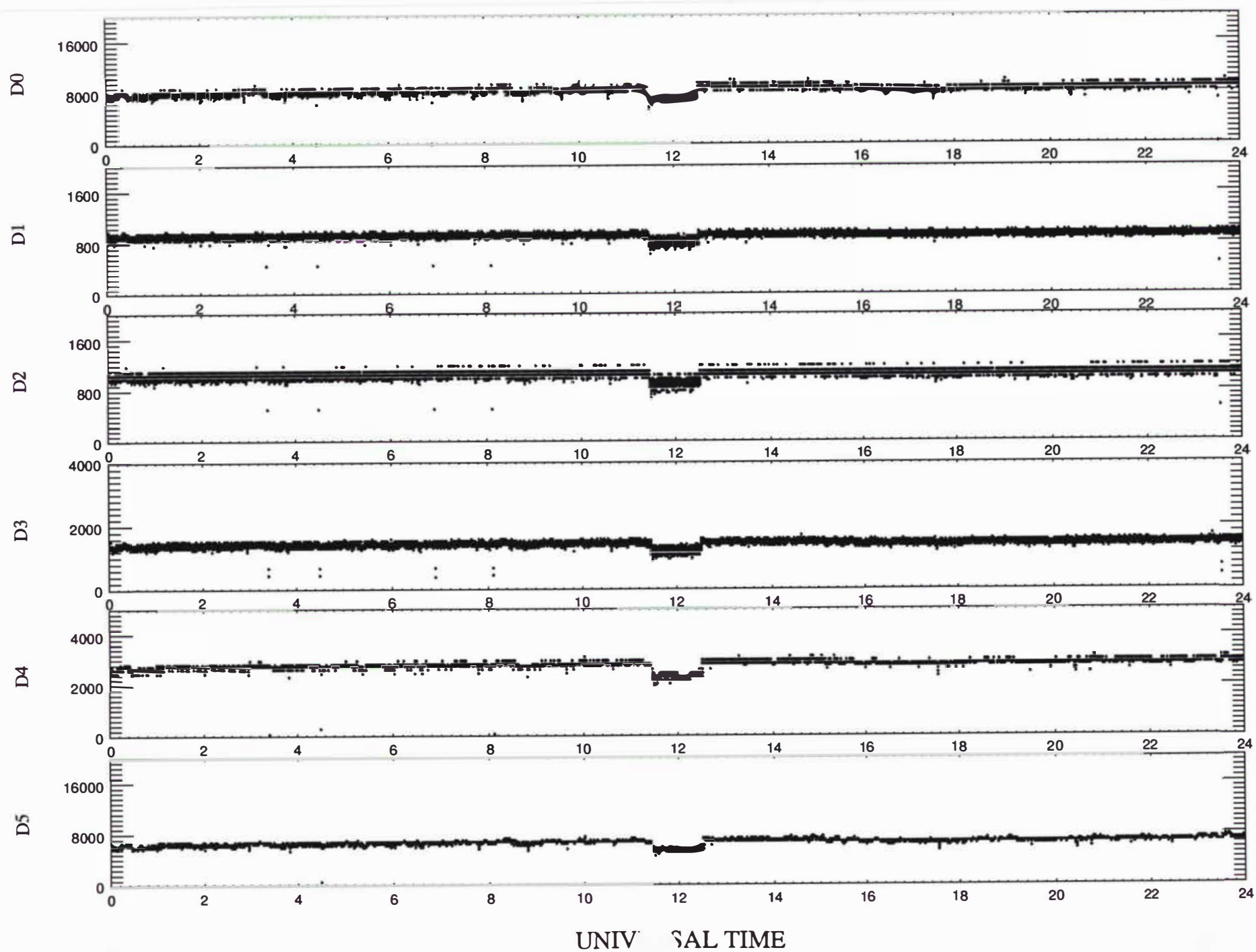
UNIVERSAL TIME

HUS 2A TRIGGERED DATA EDR day 230, year 1995
Burst Counter 9 at UT= 1.247592243618 h= 4491.332 s 01:14:51.332

2/2/96



B# 1



From RICHARDSON@ssl.msfc.nasa.gov Mon Aug 21 10:25 PDT 1995
Date: Mon, 21 Aug 1995 12:25:23 -0500 (CDT)
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3766

BATSEARCH PROGRAM

BATSE BURST # 3766
EVENT OF 1995 AUG 19 DAY OF YEAR=231
EVENT CROSSING TIME AT BATSE : 84935. S. OR 23:35:35.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 340.000 -61.000
BATSE PEAK COUNTING RATE: 3700 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 19/ 8/ 95 IS:
RA= 178.807 DEC= 74.152 DIST= 2.403 AU
BATSE-ULYSSES DISTANCE = 359550272. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 14.83 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 1159.39 SECS.
CROSSING TIME AT ULYSSES IS 86094. S. OR 23:54:54 +/- 120.89 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 19/ 8/ 95 IS:
RA= 196.157 DEC= -6.847 DIST= 1.958 AU
MARS-BATSE DISTANCE = 292950816. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 73.48 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 277.89 SECS.
CROSSING TIME AT MARS IS 85213. S. OR 23:40:12 +/- 166.87 SECONDS

BATSE BURST TRIGGER

NO.: 3766

TIME: TJD=9948 SECONDS=84935

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=115.9 AZIMUTH=222.1 ERROR=1.3 DEGREES

COMMENTS:

GRB. TWO SPIKES. THE FIRST SPIKE IS AT T, HAS STRUCTURE, WITH DUR.~15SEC.
THE SECOND SPIKE IS AT T+110 WITH A DUR.~40SEC. VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3766	950819	9948	84935	3700	340	-61	165

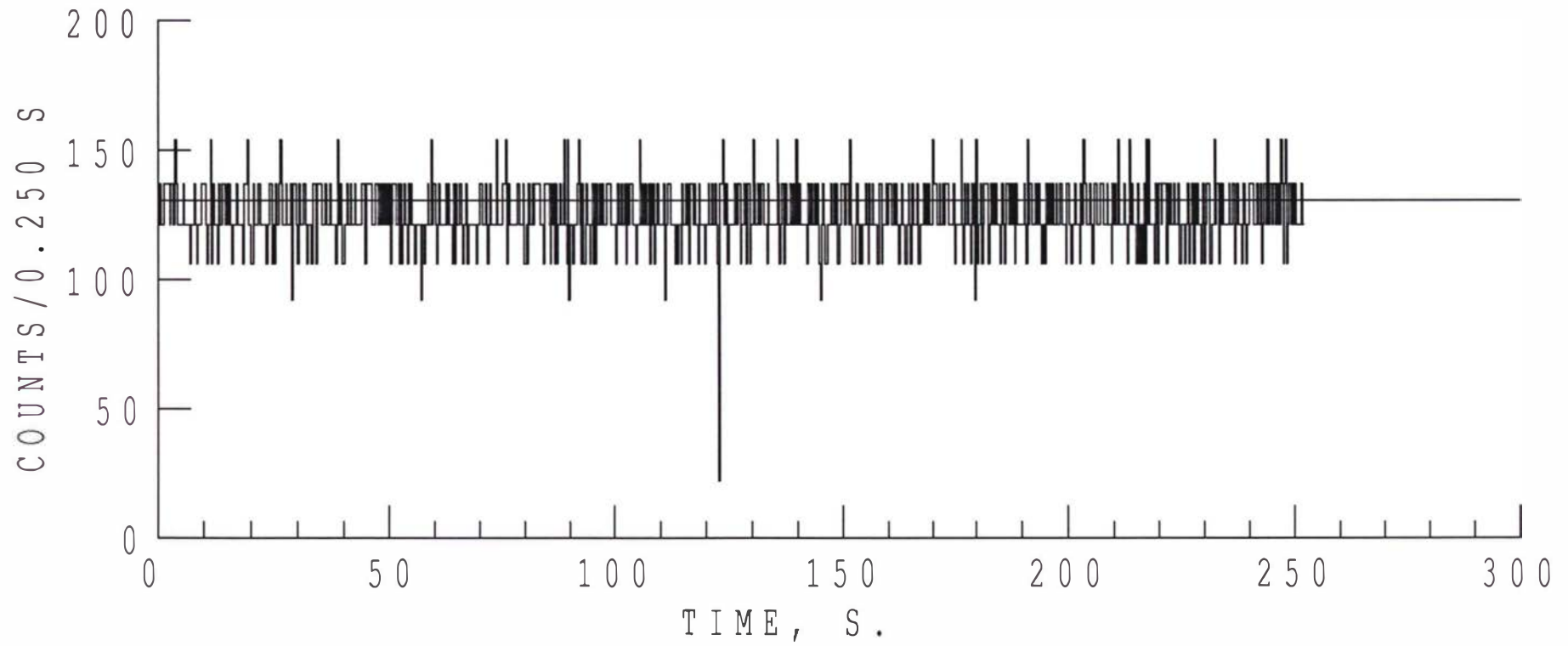
25 / 8 / 95

ULYSSES RT

19 / 8 / 95 85968.133 s

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

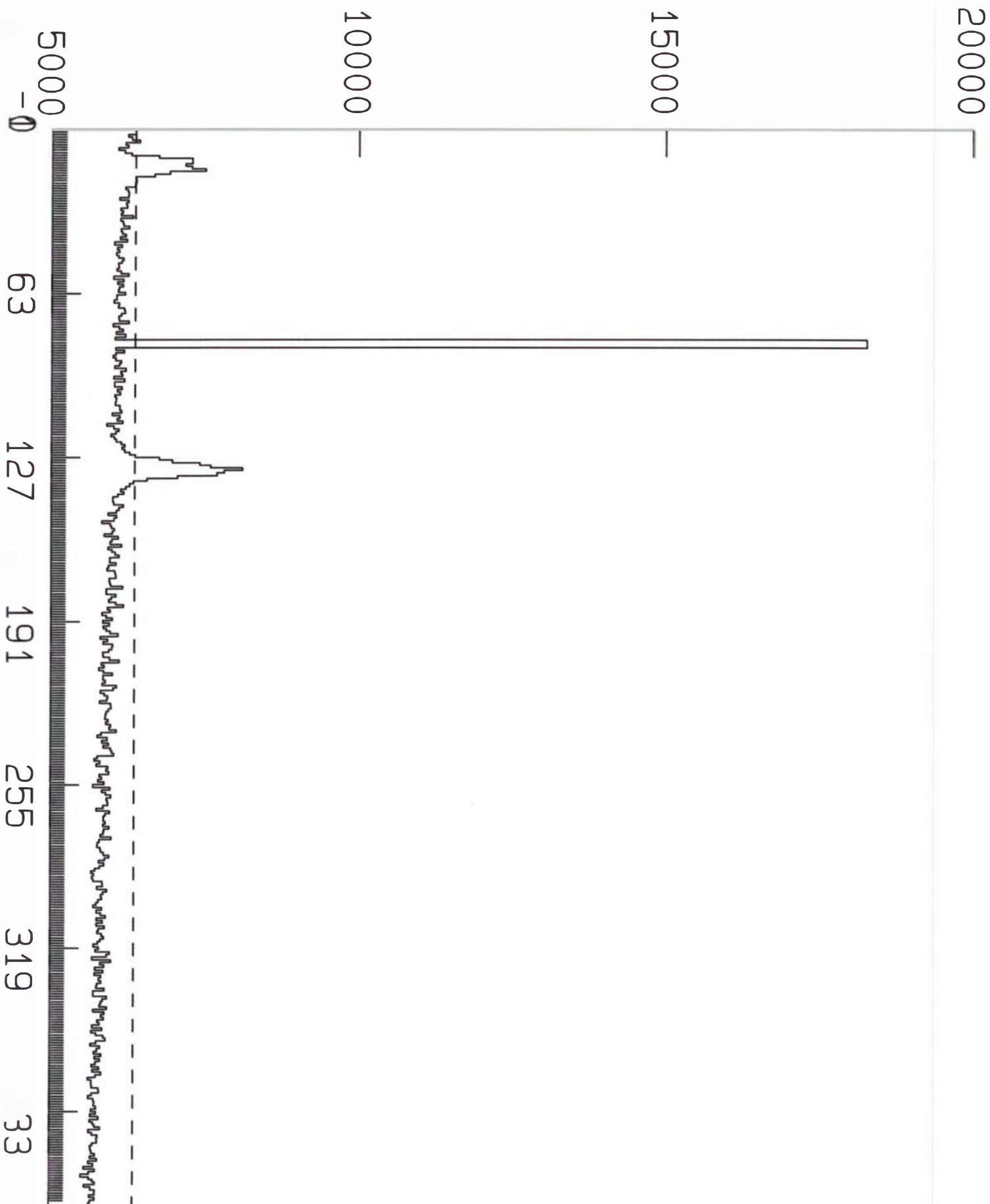


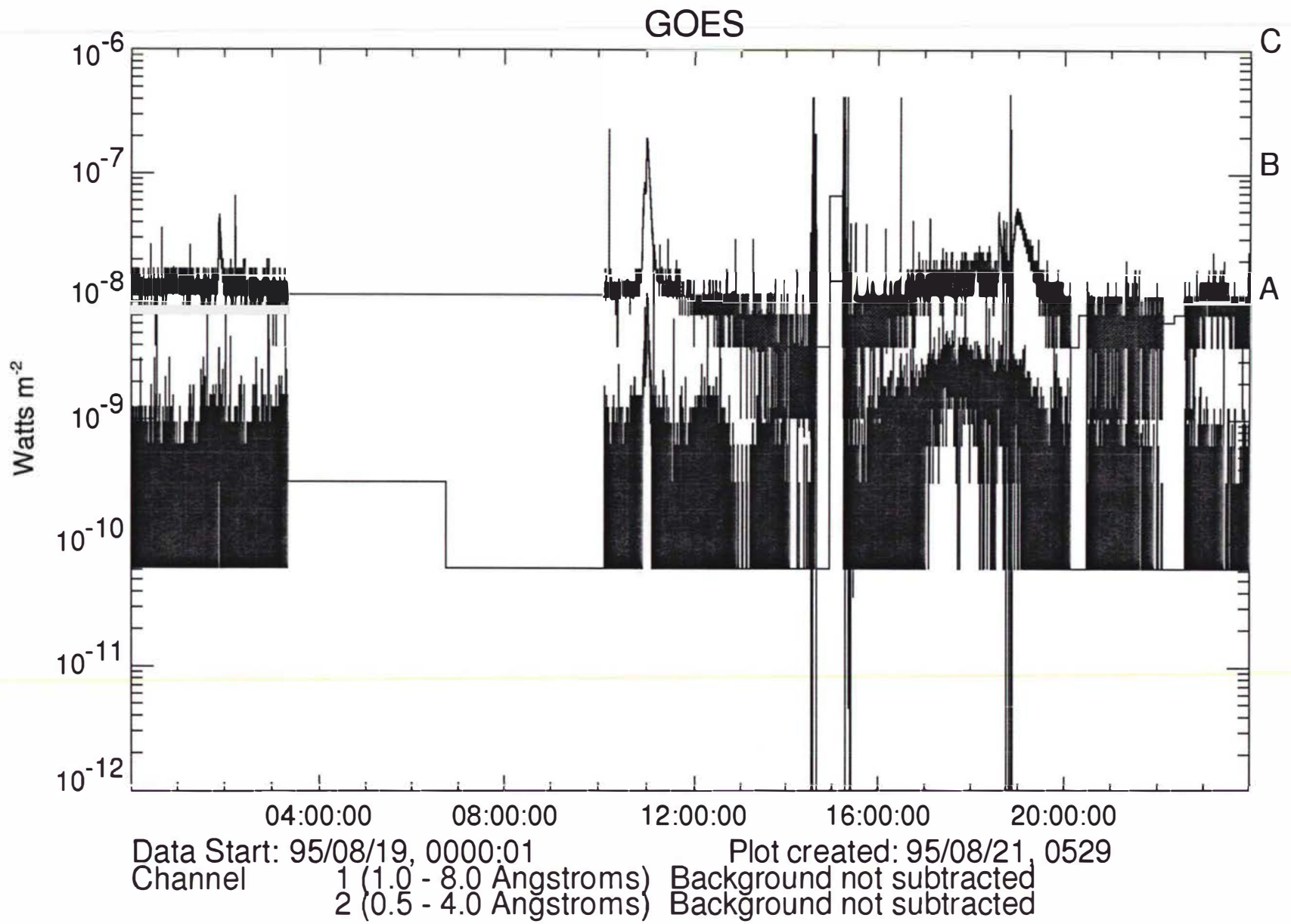
BACODINE

19/08/95

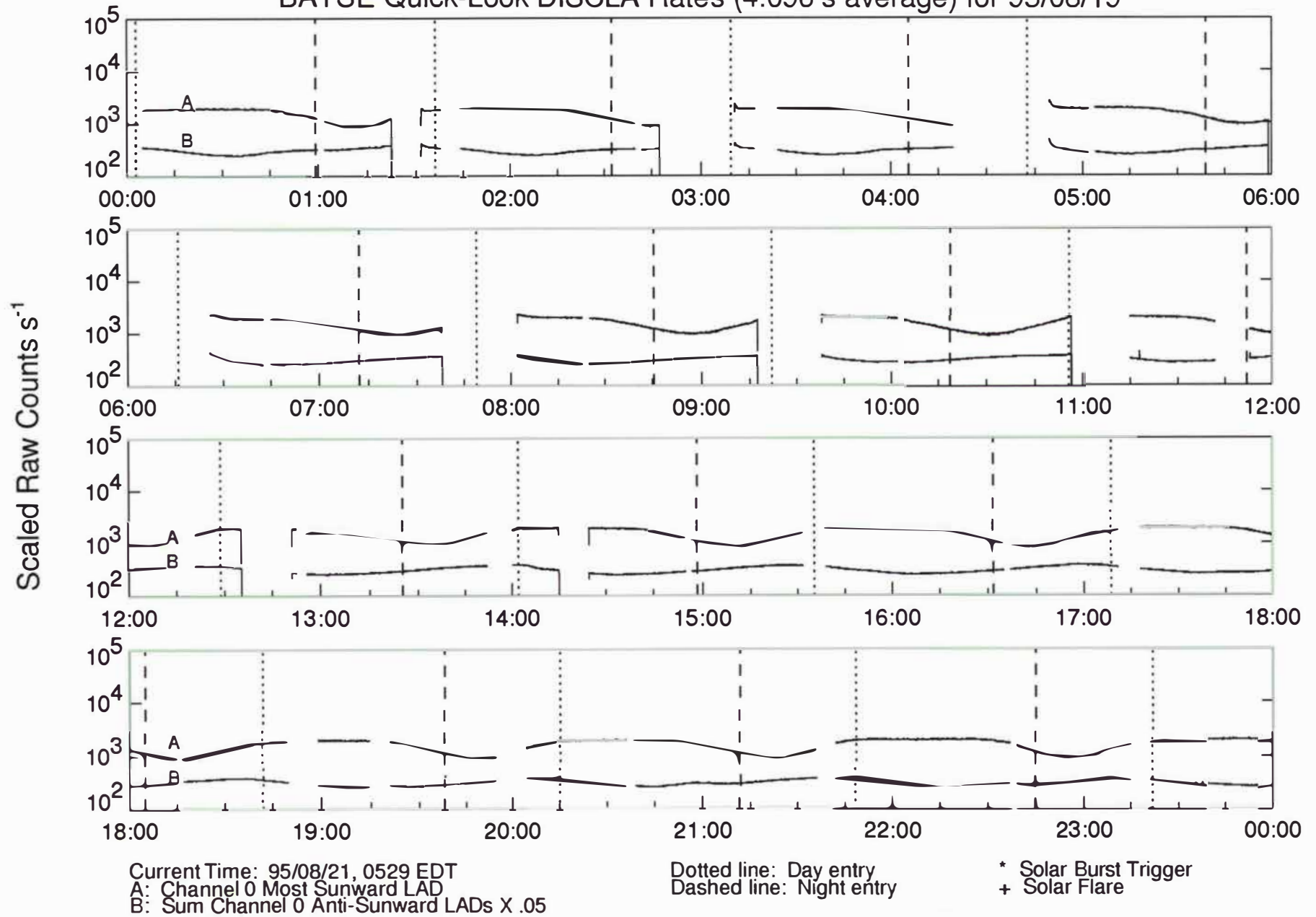
84923.057

25- 100 keV
COUNTS/1.024 S

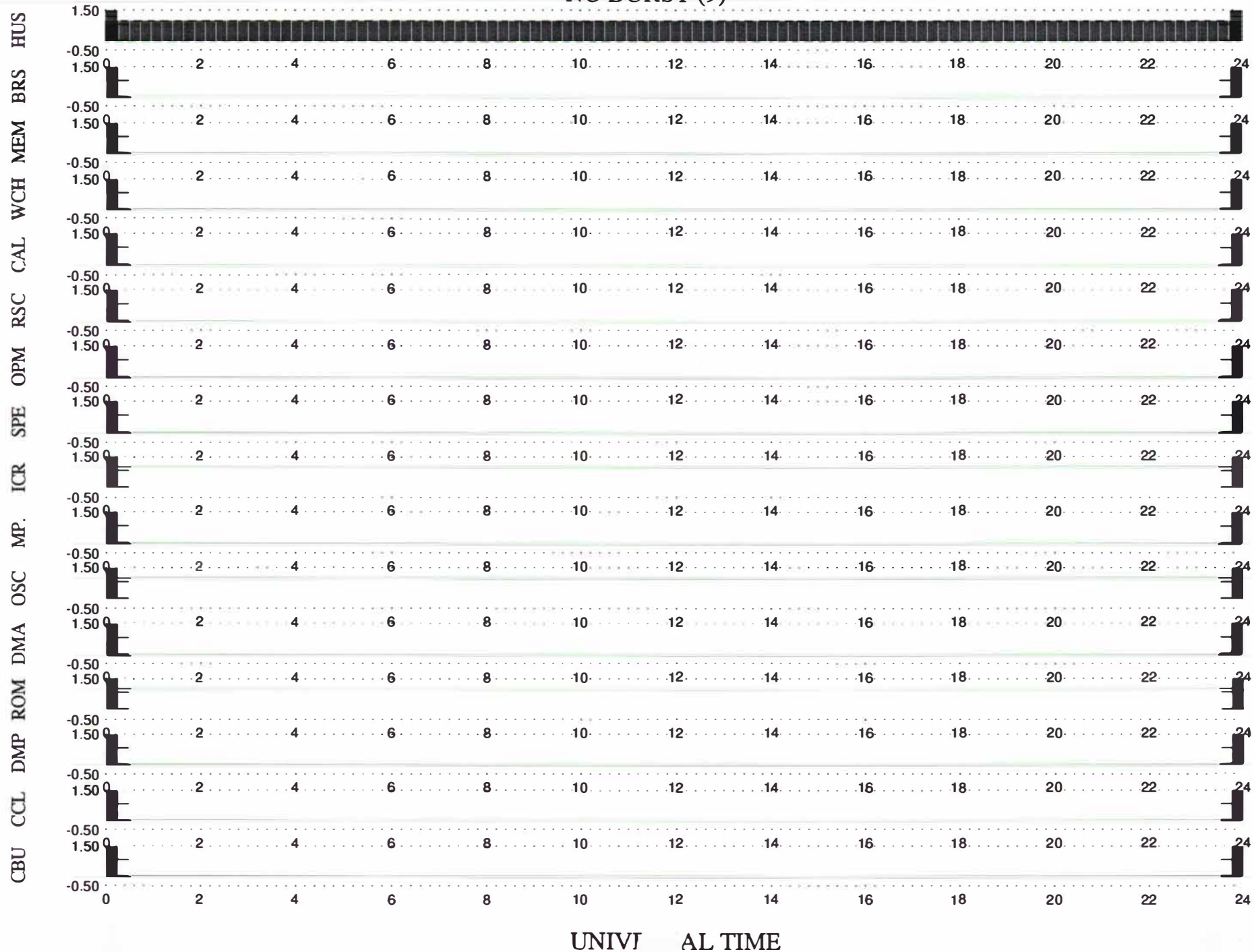




BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/19

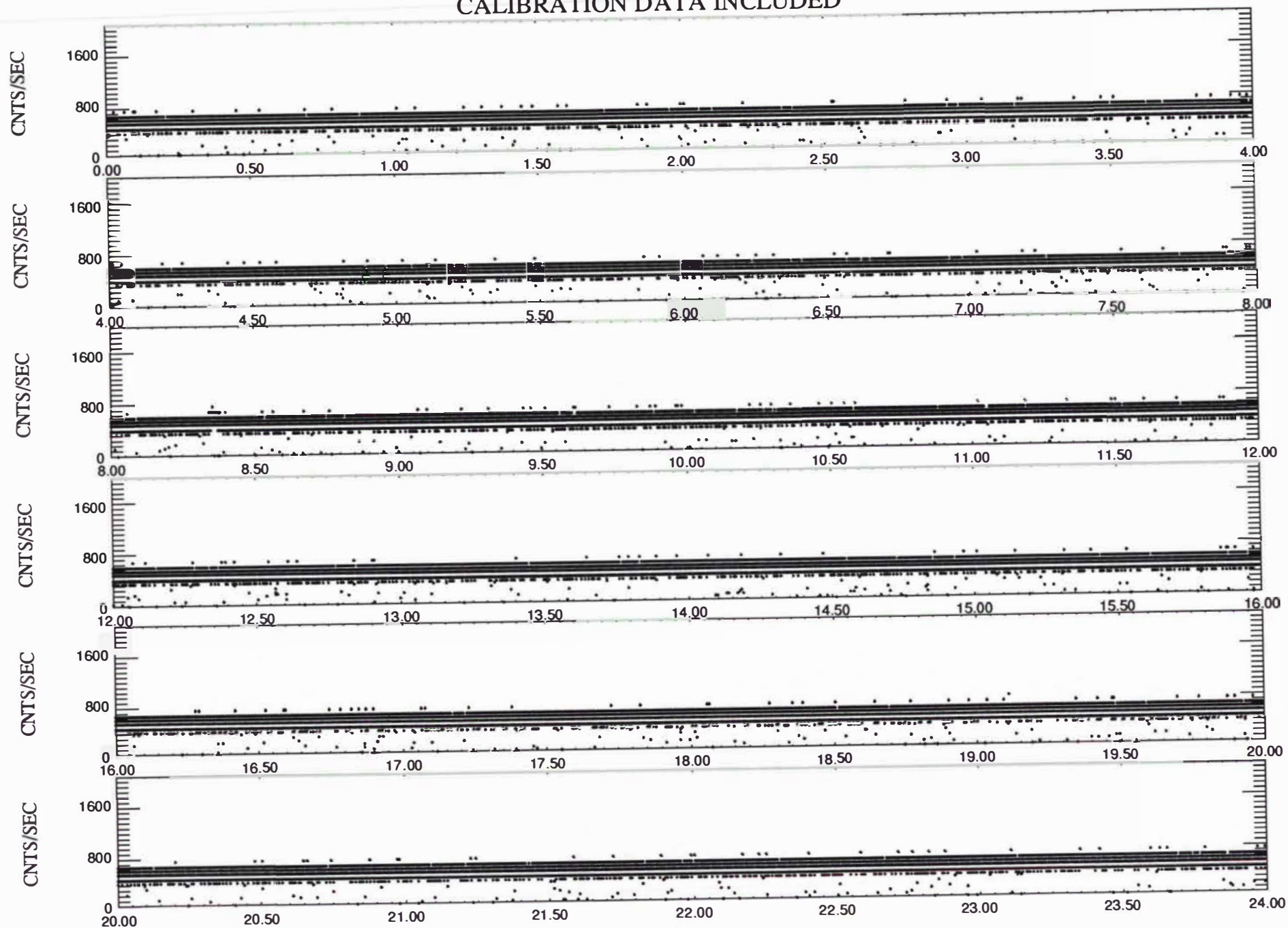


1/25/96

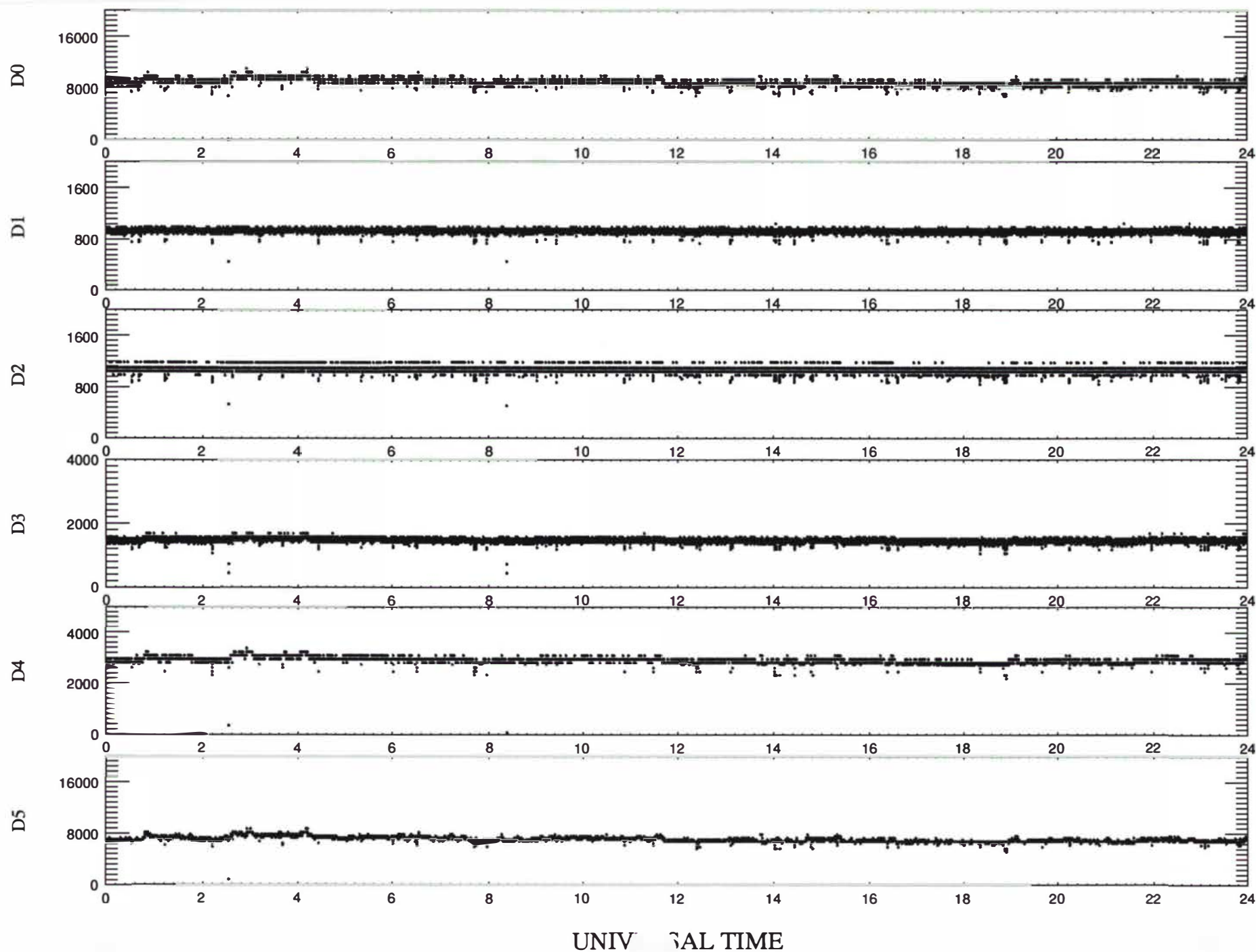


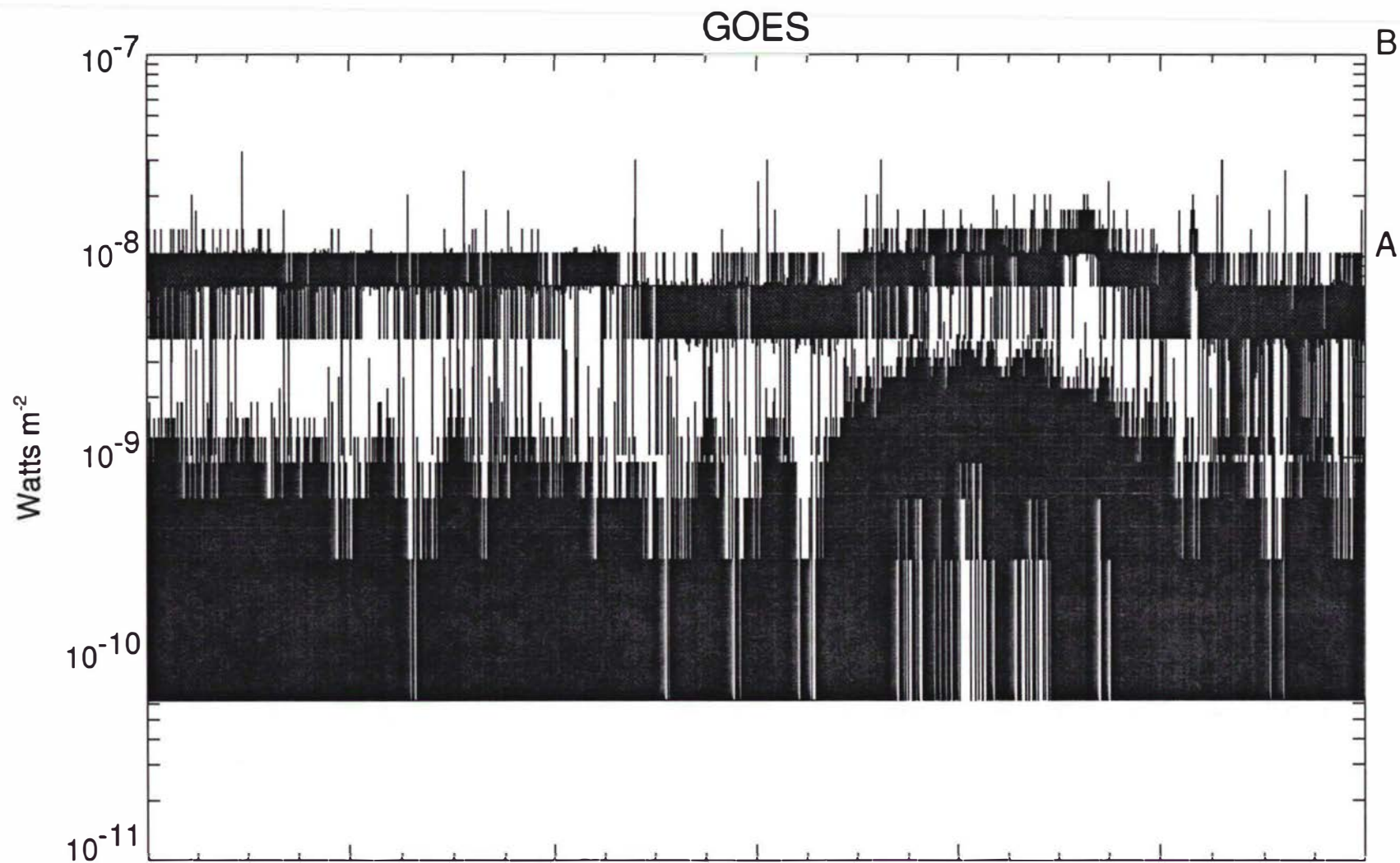
HUS 2A, MODE 1, NOT AVERAGED EDR day 231, year 1995 to day 231, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME





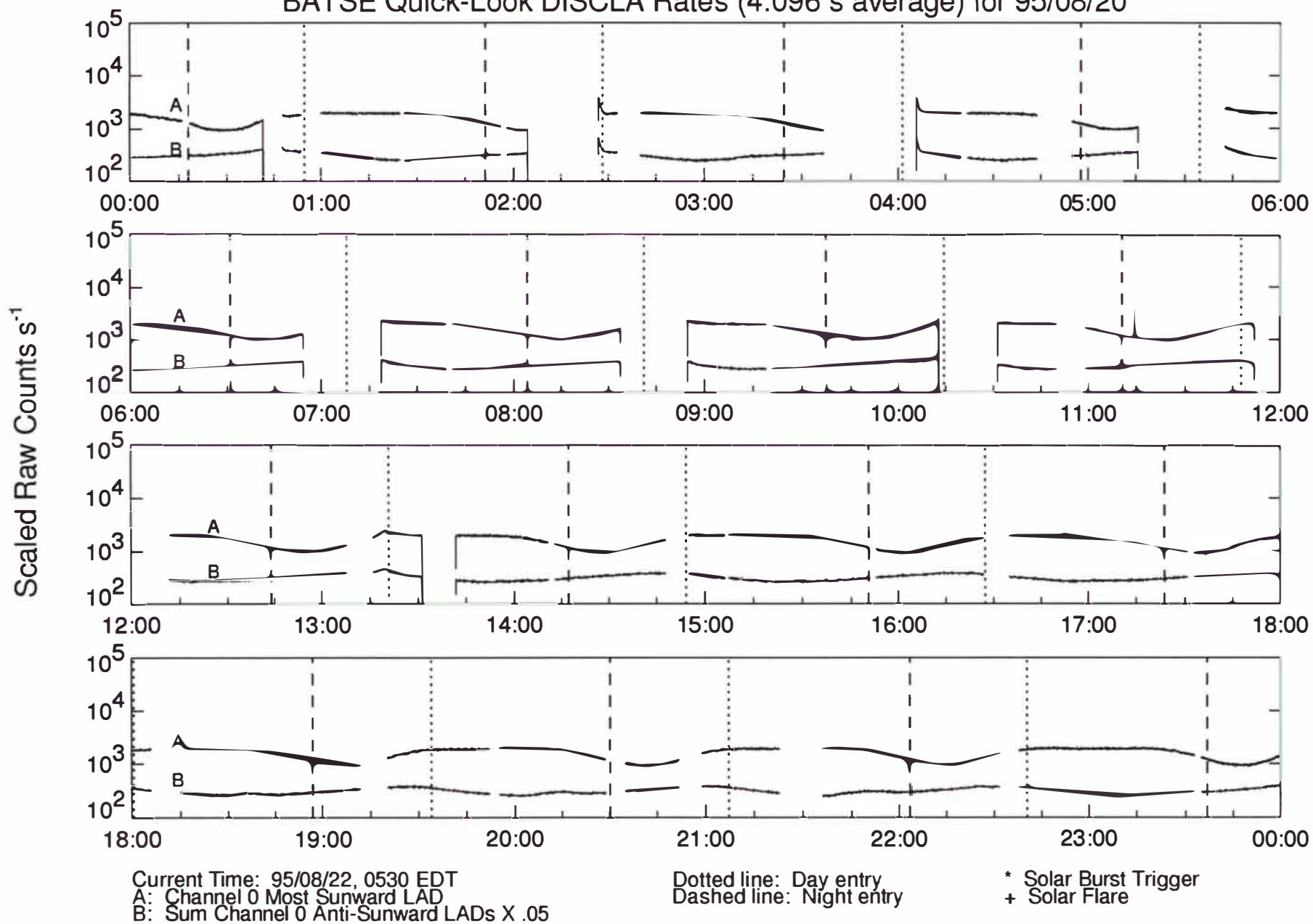
Data Start: 95/08/20, 0000:02

Plot created: 95/08/22, 0529

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

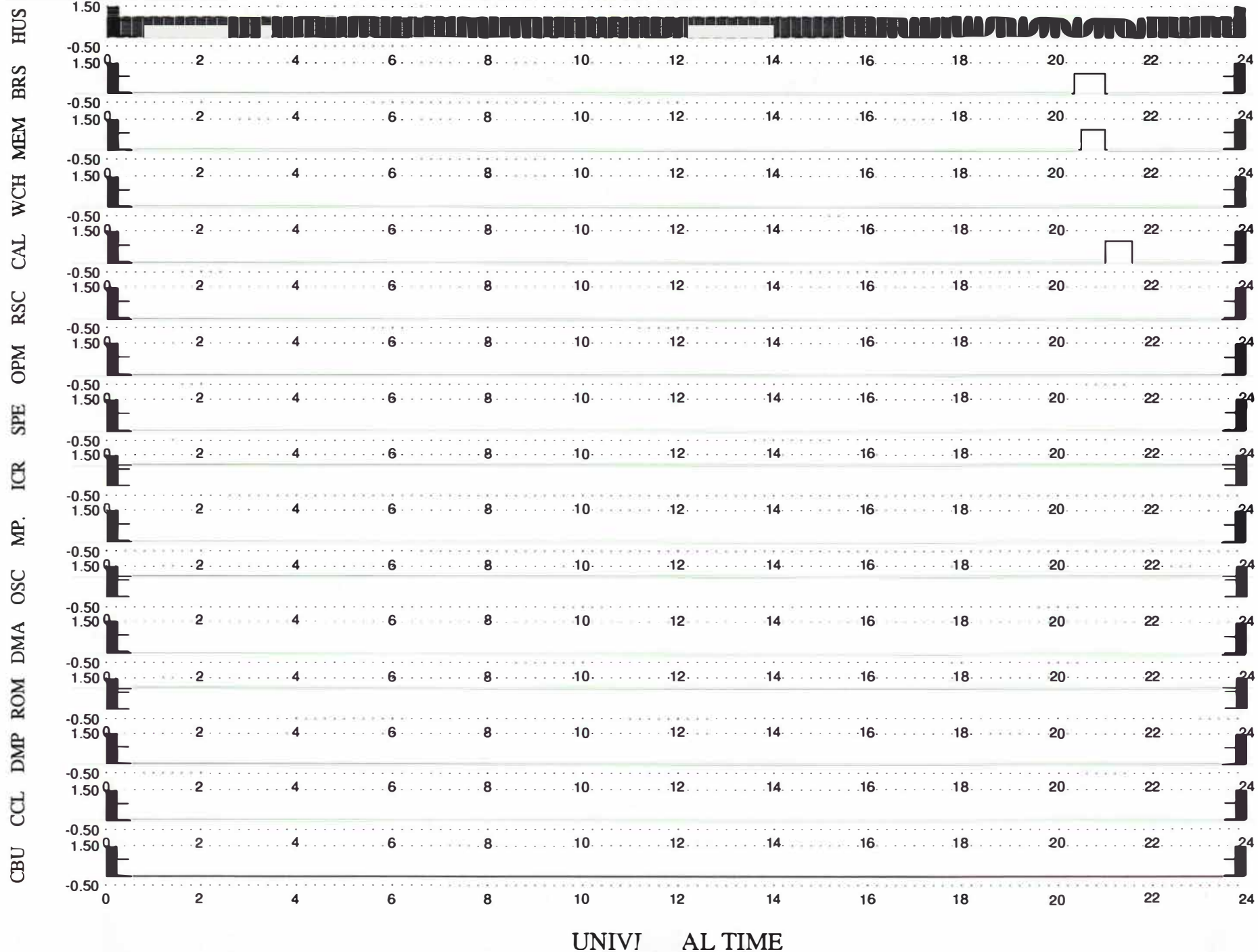
2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/20



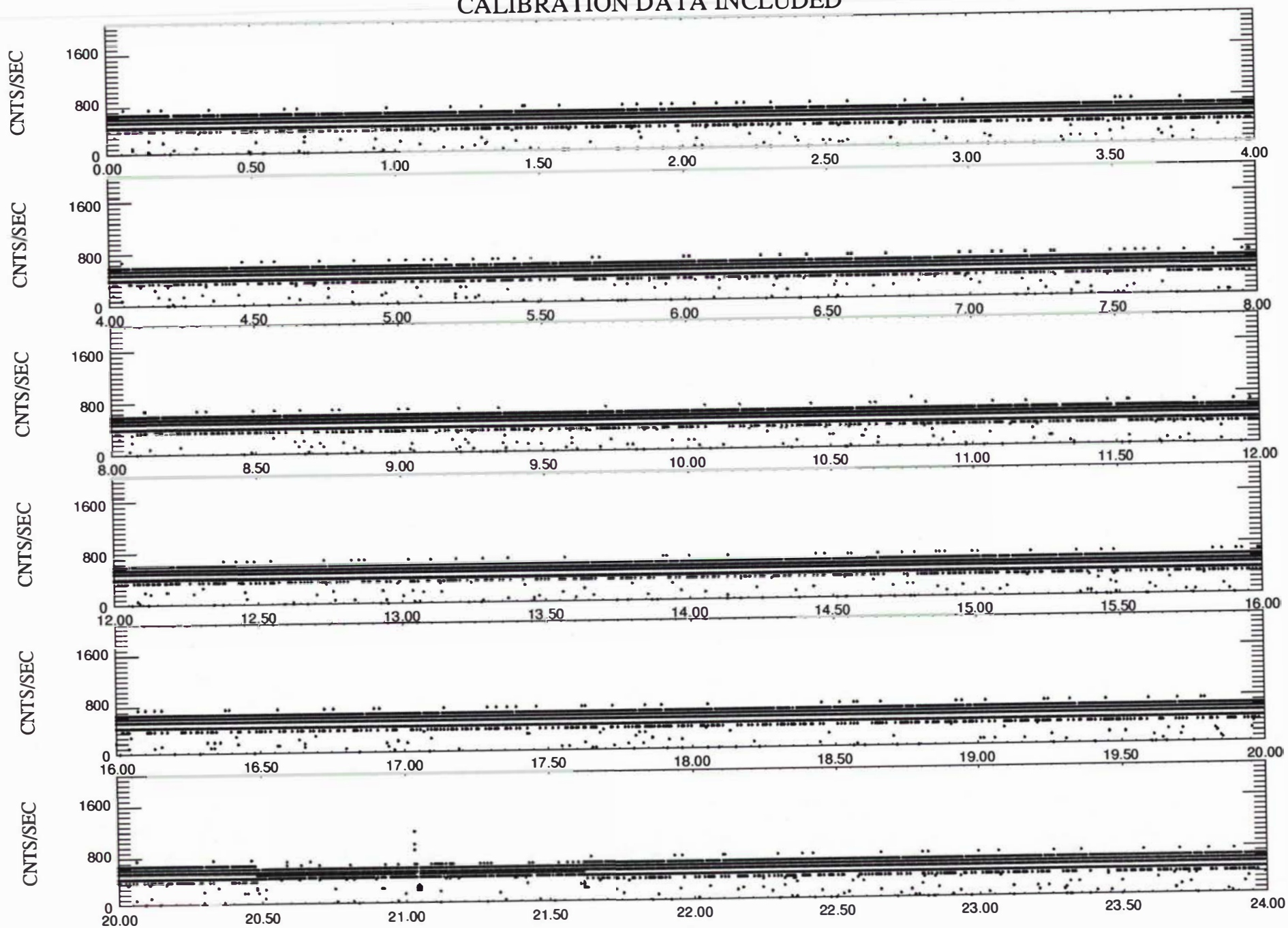
HUS MODES EDR day 232, year 1995 to day 232, year 1995
BURST NUMBER 10

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 232, year 1995 to day 232, year 1995
CALIBRATION DATA INCLUDED

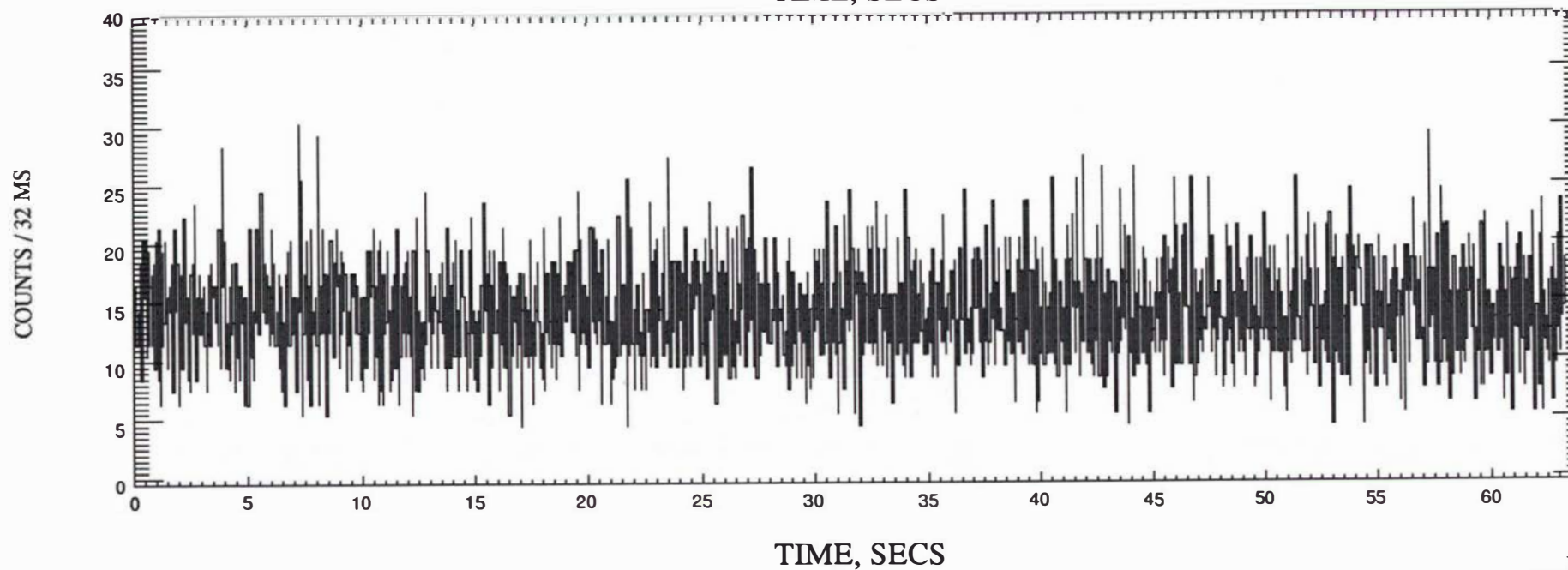
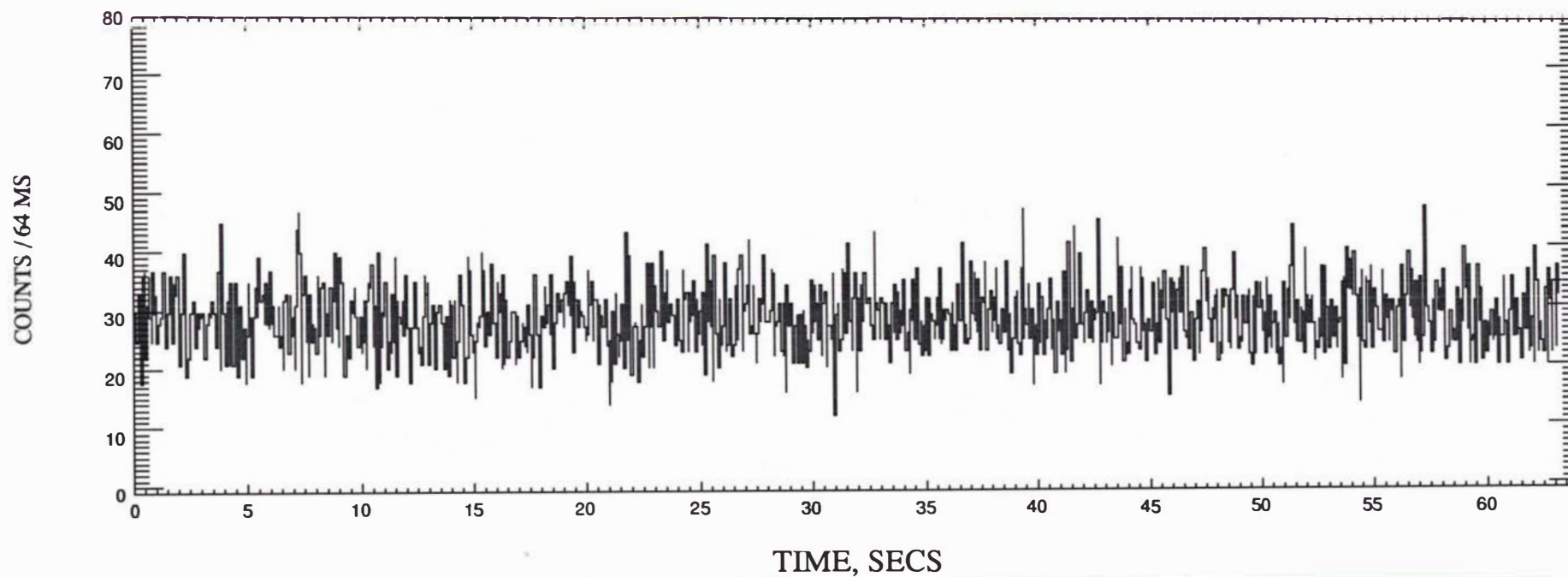
1/25/96



UNIV TIME

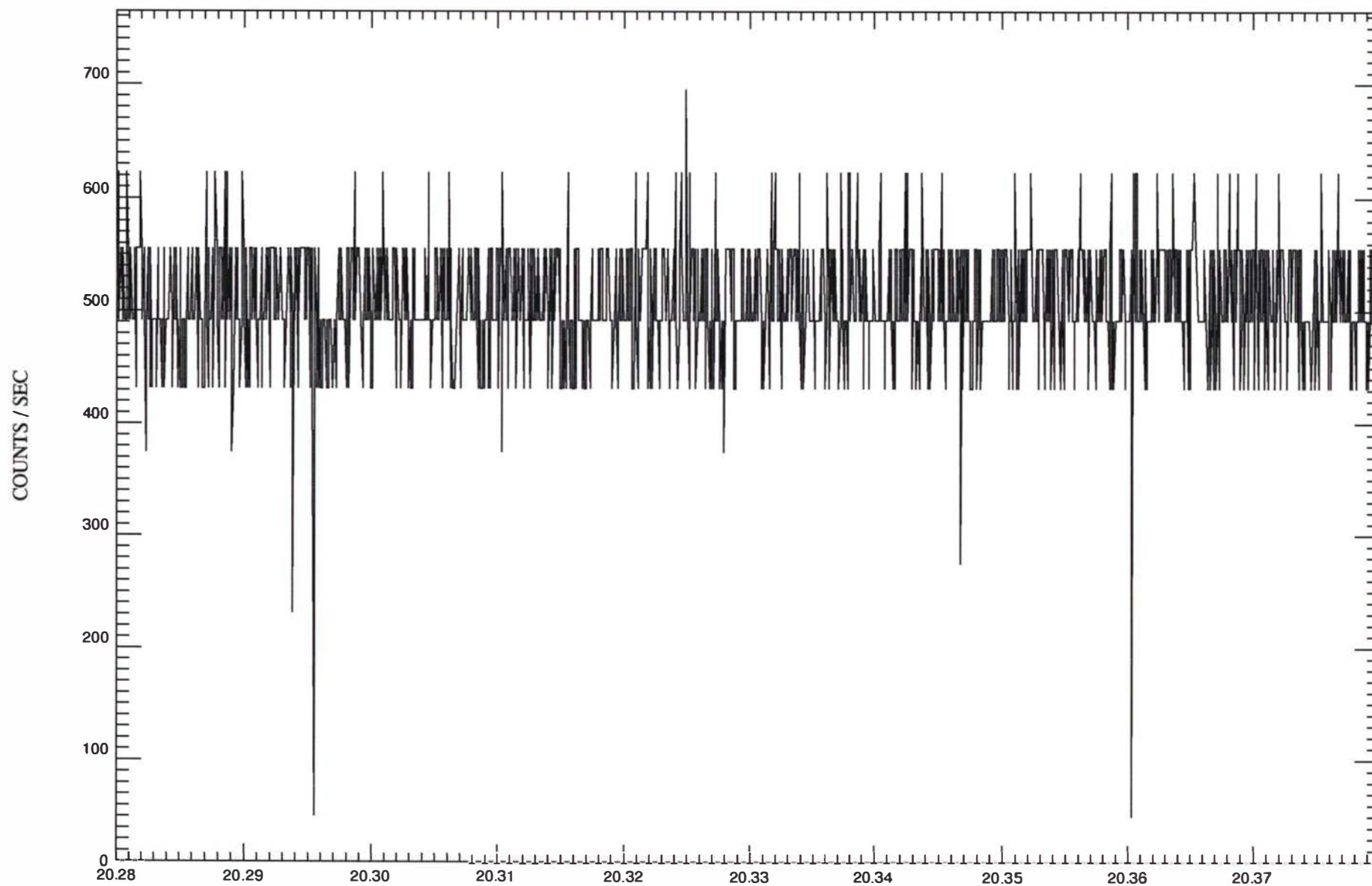
HUS 2A TRIGGERED DATA EDR day 232, year 1995
Burst Counter 10 at UT=20.325057584975 h=73170.207 s 20:19:30.207

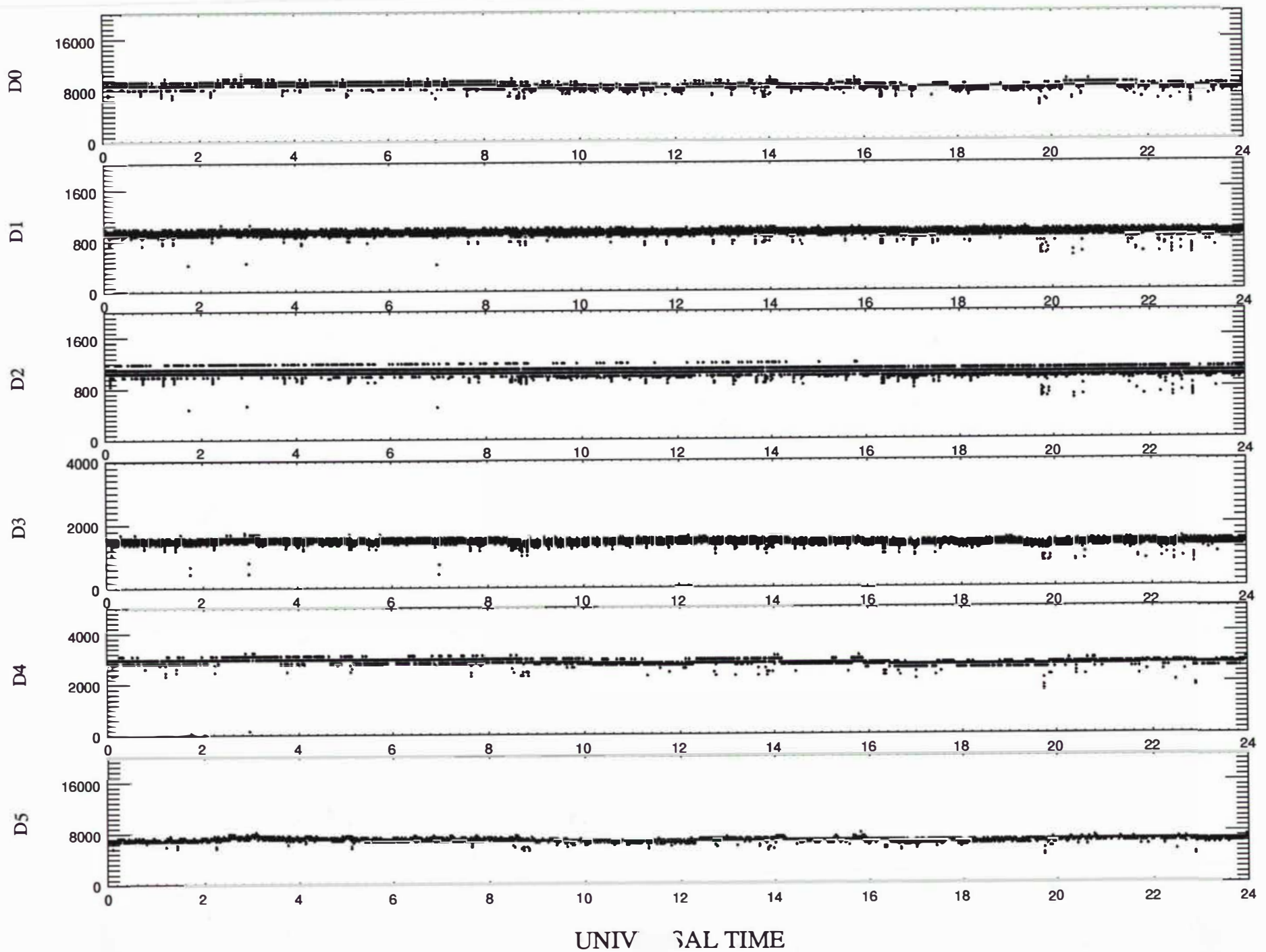
2/2/96

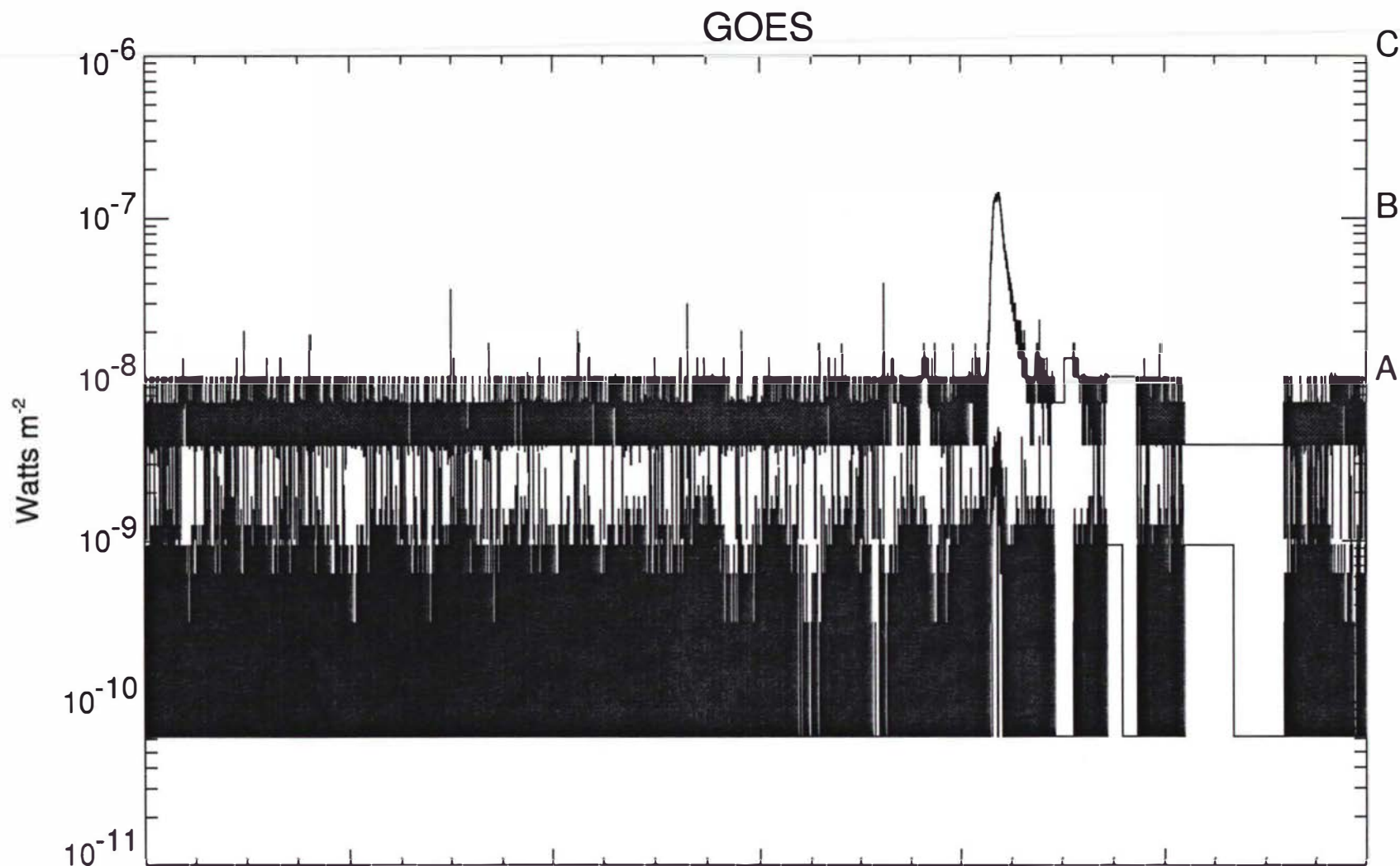


HUS 2A, MODE 1, NOT AVERAGED QEDR day 232, year 1995 to day 232, year 1995
CALIBRATION DATA INCLUDED

8/21/95







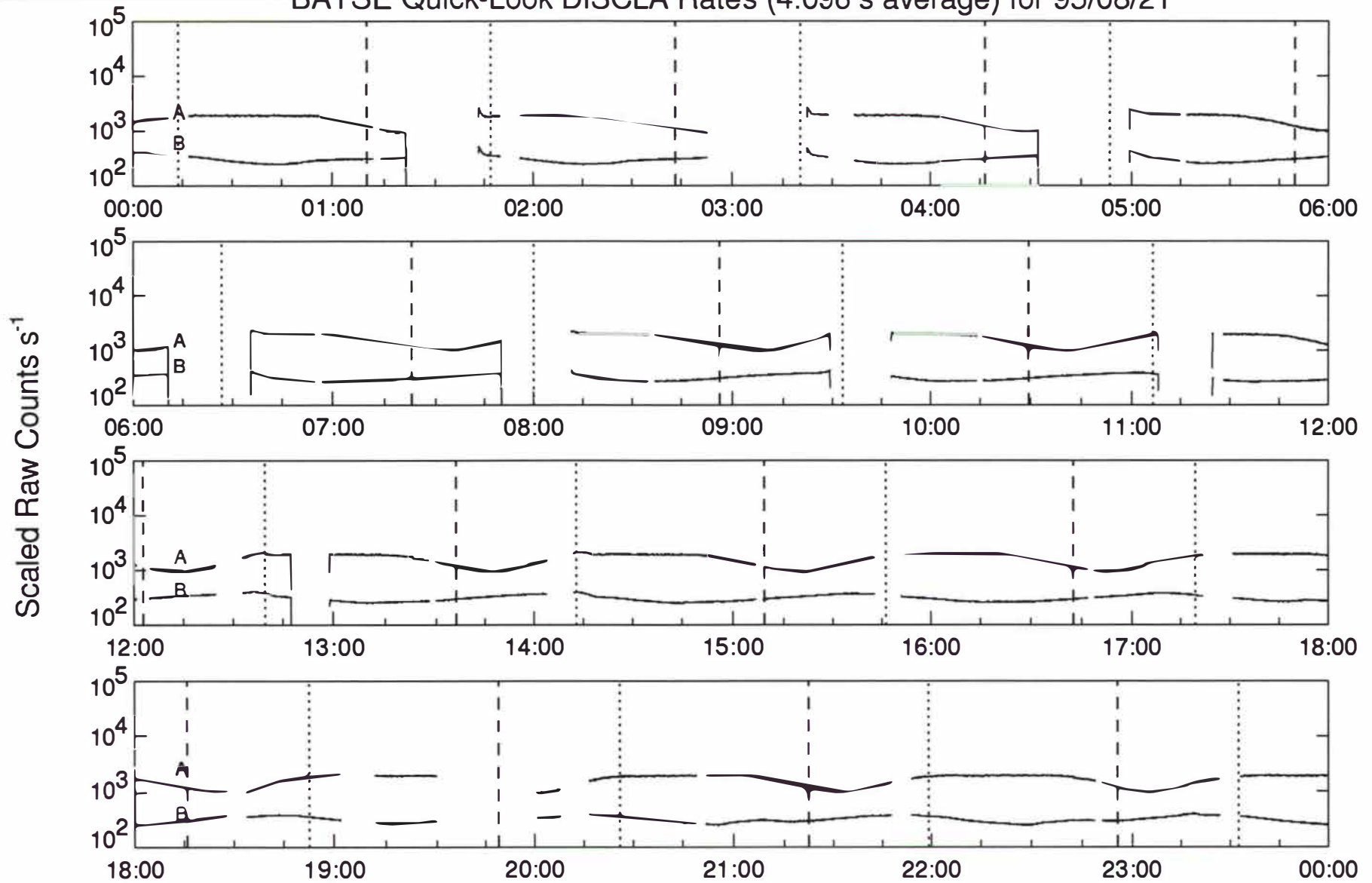
Data Start: 95/08/21, 0000:03

Plot created: 95/08/23, 0529

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

Background not subtracted
Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/21



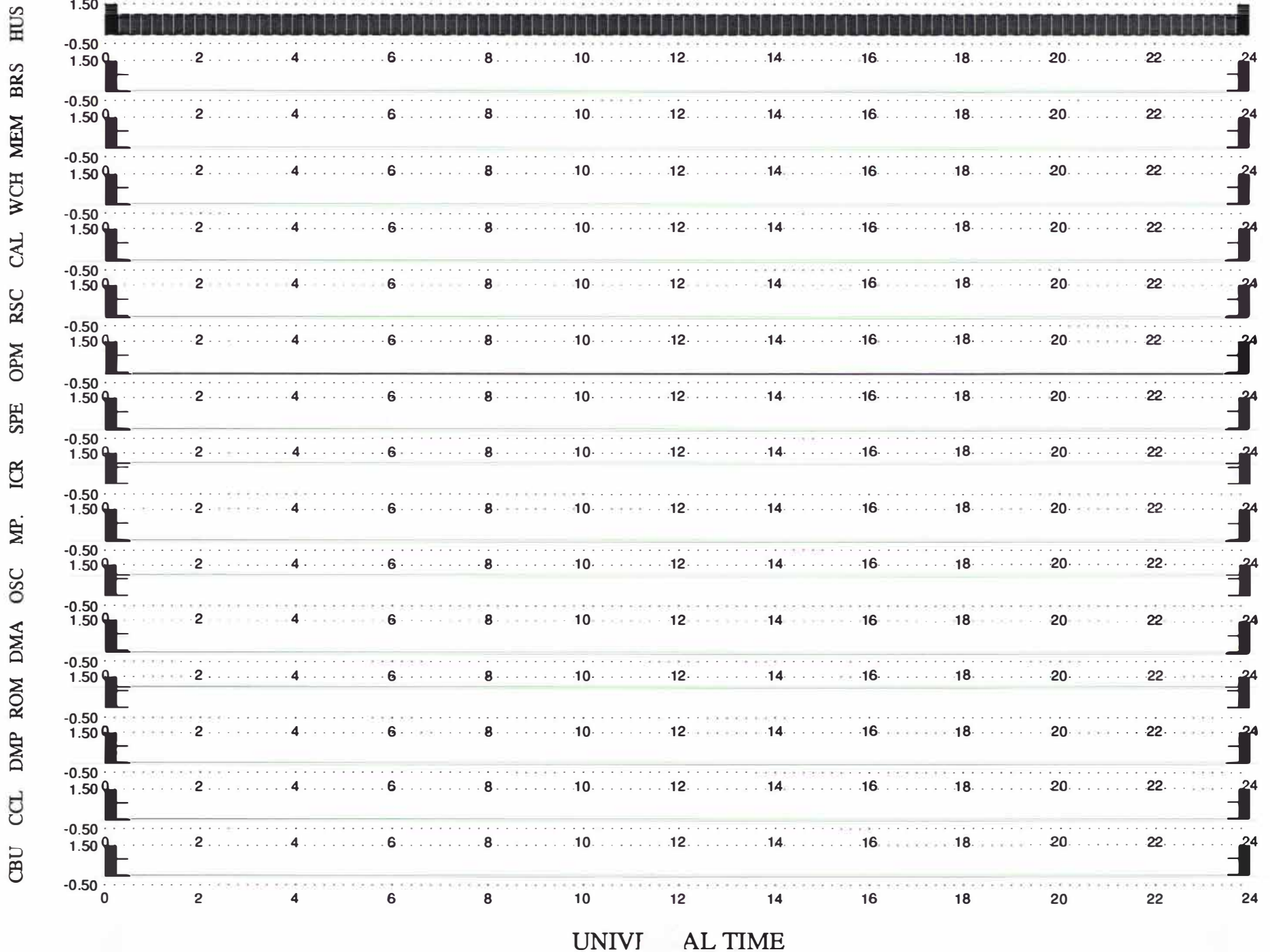
Current Time: 95/08/23, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

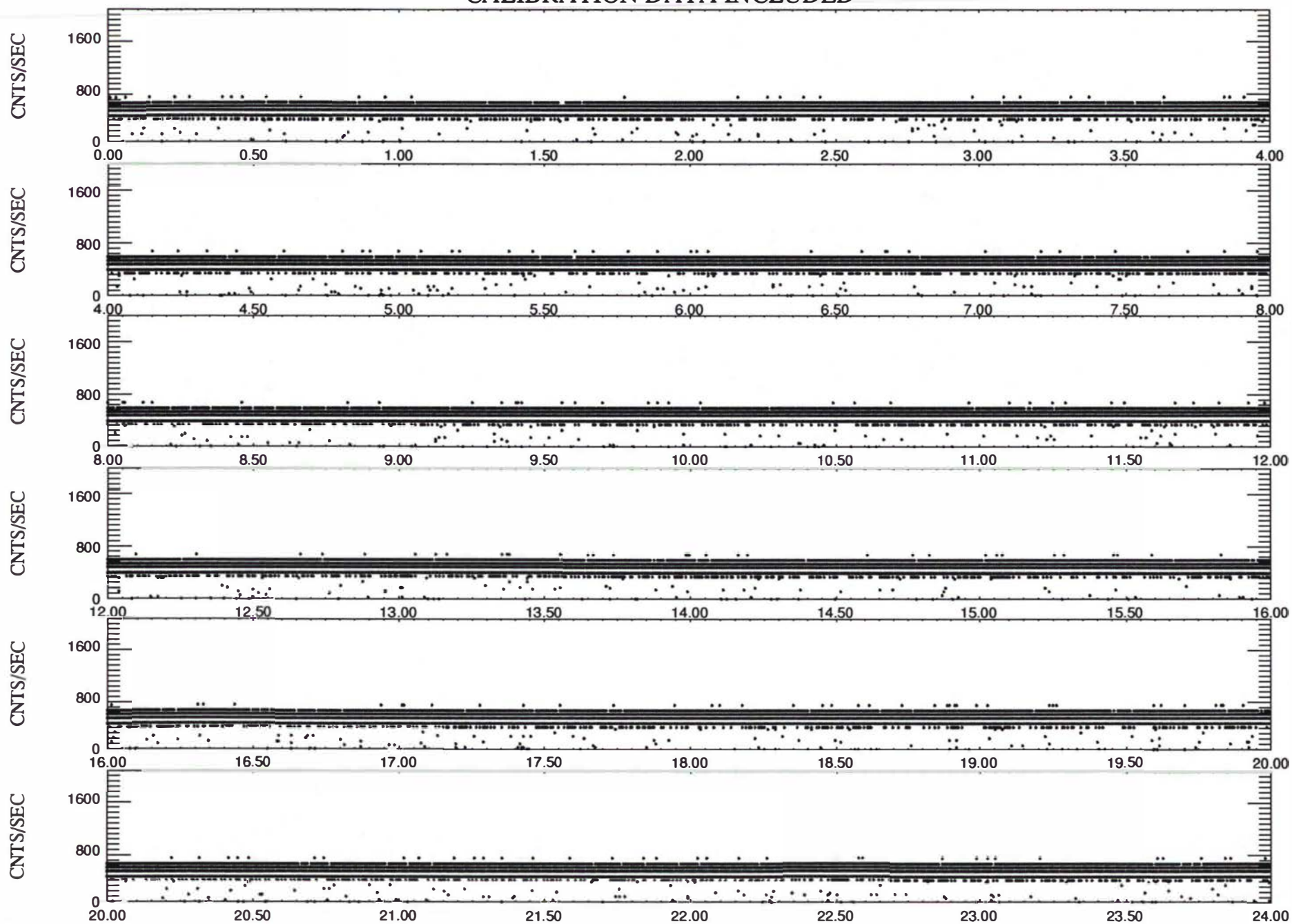
HUS MODES EDR day 233, year 1995 to day 233, year 1995
NO BURST (10)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 233, year 1995 to day 233, year 1995
CALIBRATION DATA INCLUDED

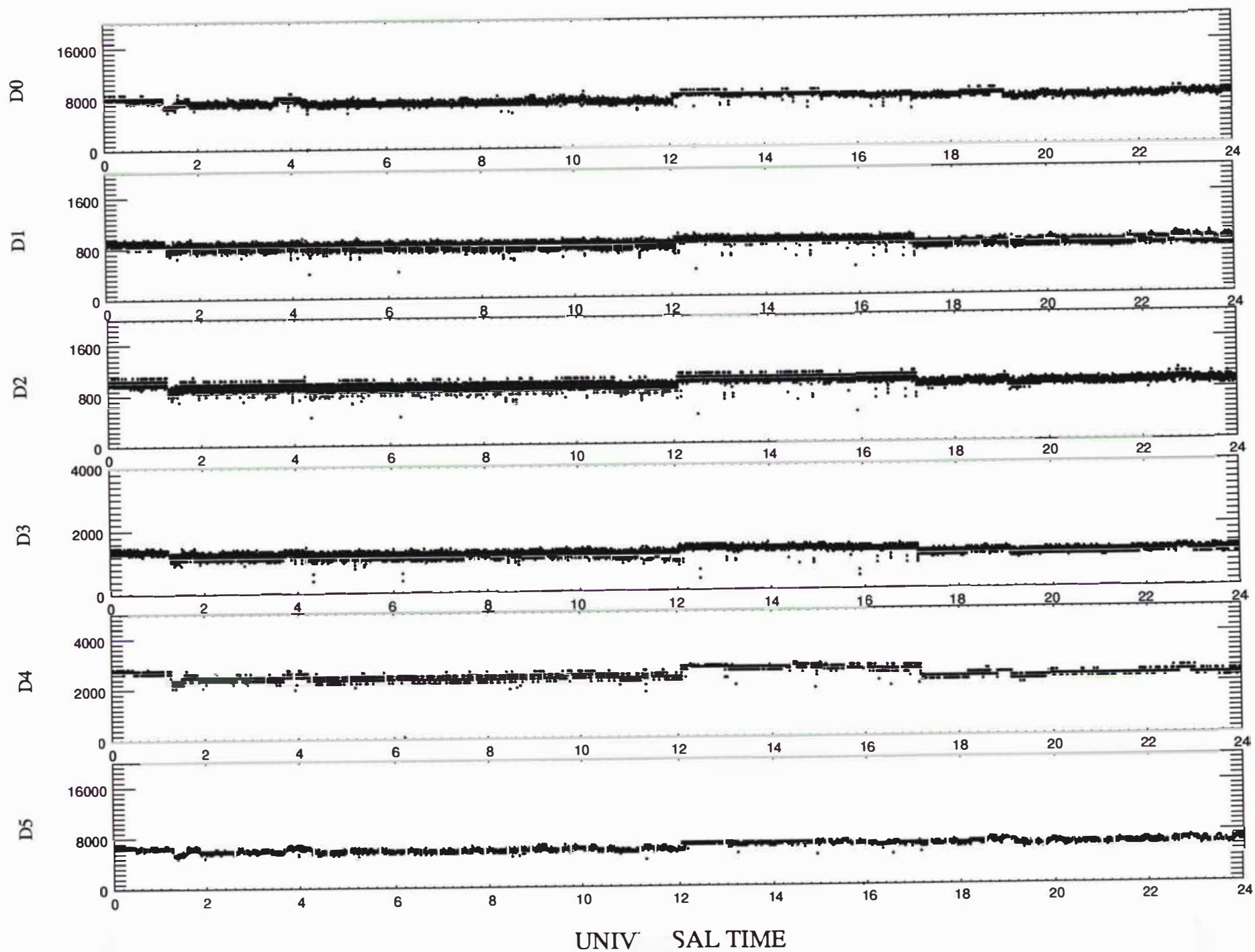
1/25/96



UNIVERSAL TIME

HUS 2B COUNTS / SEC QEDR day 233, year 1995 to day 233, year 1995

8/23/95



From SAHI@SSLLES.MSFC.NASA.GOV Fri Aug 25 10:48 PDT 1995
Date: Fri, 25 Aug 1995 12:48:13 -0500 (CDT)
From: SAHI@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3767

BATSEARCH PROGRAM

RI

BATSE BURST # 3767
EVENT OF 1995 AUG 22 DAY OF YEAR=234
EVENT CROSSING TIME AT BATSE : 13749. S. OR 03:49:09.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 245.000 -66.000
BATSE PEAK COUNTING RATE: 30000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 22/ 8/ 95 IS:
RA= 180.795 DEC= 73.240 DIST= 2.421 AU
BATSE-ULYSSES DISTANCE = 362252614. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 34.54 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 995.32 SECS.
CROSSING TIME AT ULYSSES IS 14744. S. OR 04:05:44 +/- 184.07 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 22/ 8/ 95 IS:
RA= 197.920 DEC= -7.608 DIST= 1.974 AU
MARS-BATSE DISTANCE = 295266880. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=113.30 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -389.52 SECS.
CROSSING TIME AT MARS IS 13359. S. OR 03:42:39 +/- 151.14 SECONDS

BATSE BURST TRIGGER

NO.: 3767

TIME: TJD=9951 SECONDS=13749

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=134.1 AZIMUTH=263.4 ERROR=0.44 DEGREES

COMMENTS:

BURST WITH SUBSTRUCTURE DUR. > 6 SECS. DATA IS SPARSE DUE TO HIGH VOLTAGE
TURN OFF AT ~T+7 SECS. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3767	950822	9951	13749	30000	245	-66	6

Helio corr removed

Date: Oct 22 '98

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

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

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)?
 - ☐ BATSE ephemeris for T_0 ?
 - ☐ Error circle position and radius from public catalog used?
 - ☐ If MER data were used, is a 30 ms systematic error included?
- The BATSE light curve doesn't match the Ulysses one because the HV was shut off. Triangulation was done using Venus data, so this event is not in the catalog*

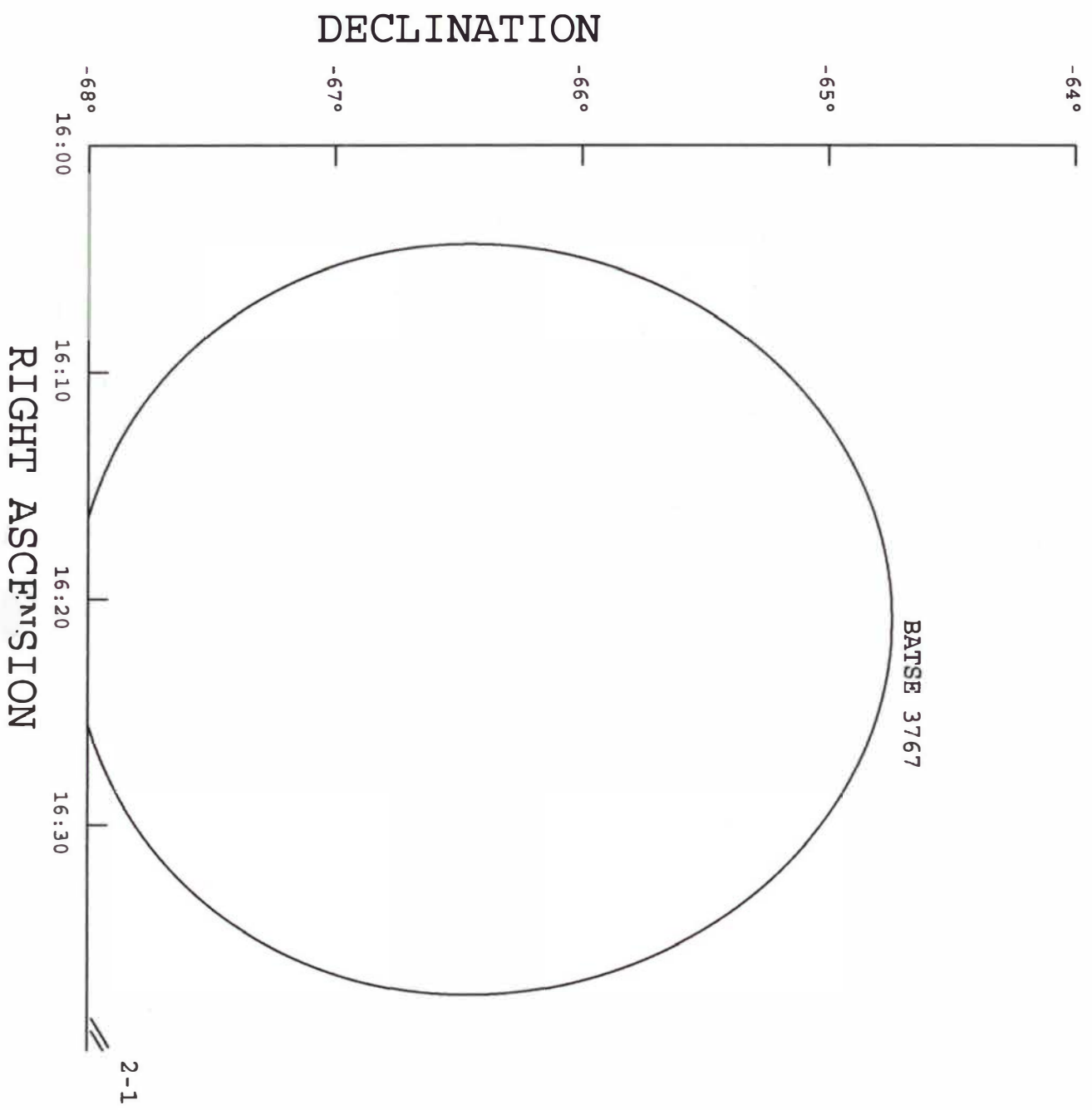
3. PVO Data

- ☐ 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 KONUS

EVENT OF AUG 22, 1995 4:06

6/11/97



ULYSSES

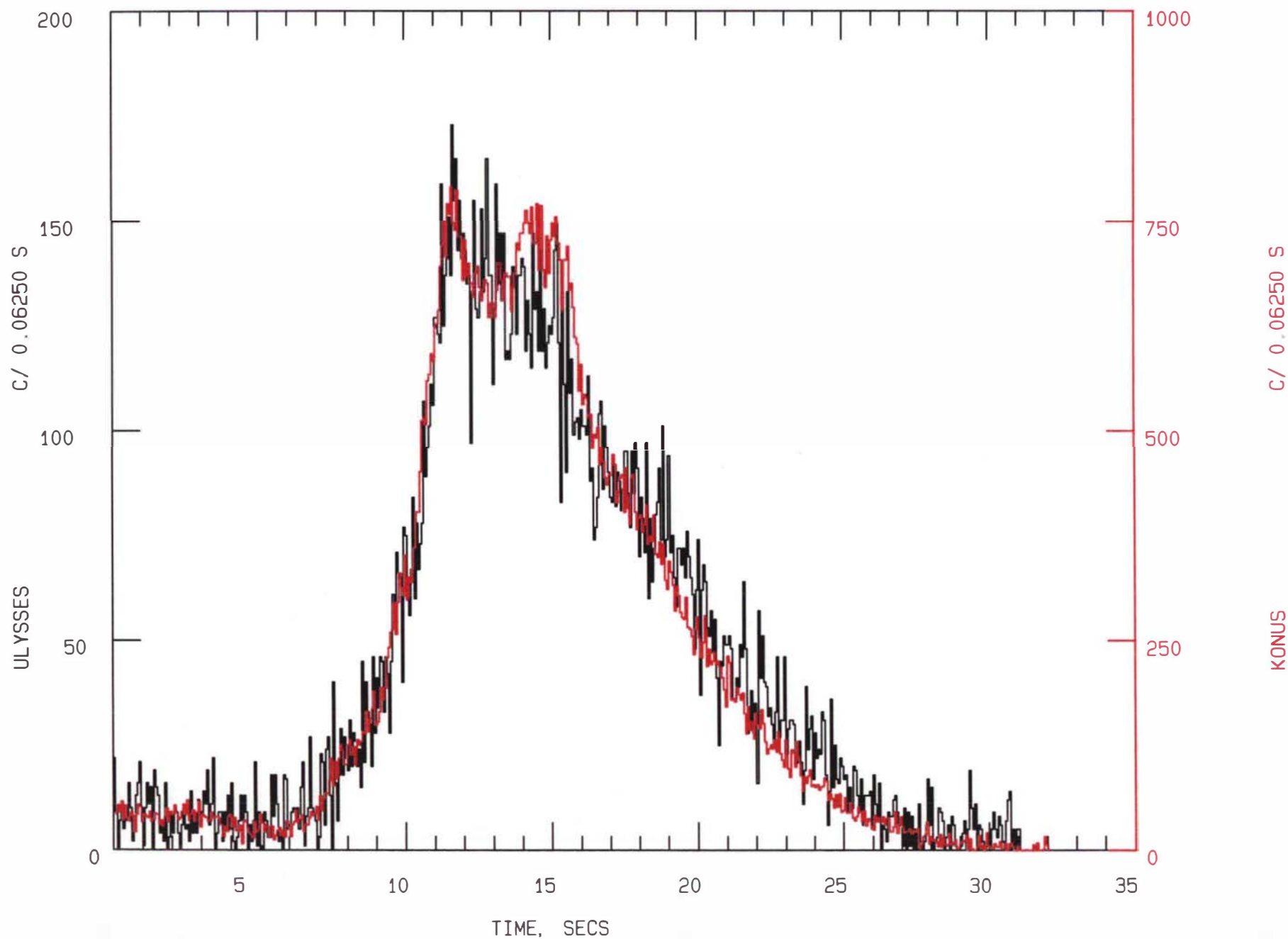
-KONUS

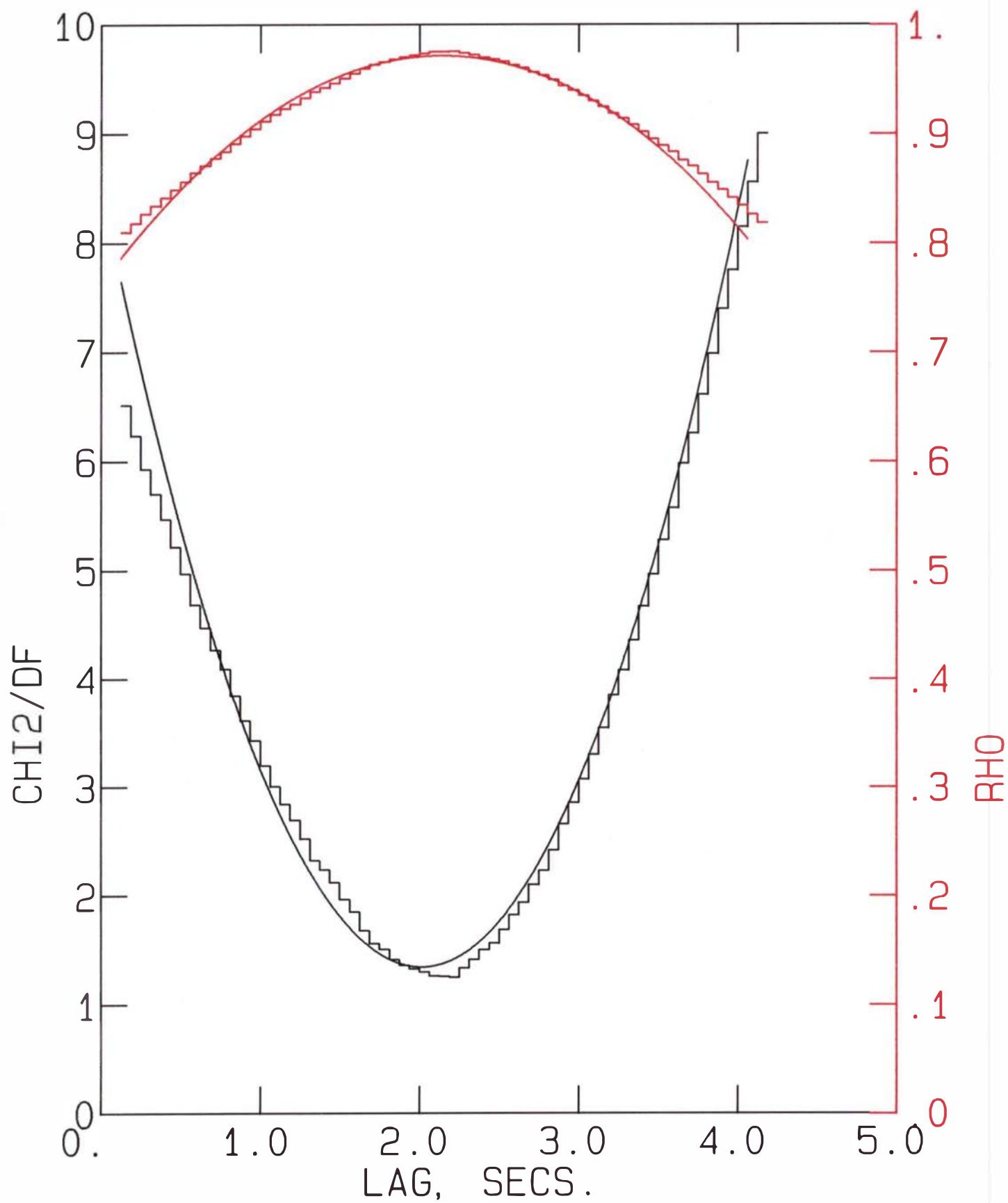
CORRELATION

22/08/95

14780.975

6/11/97

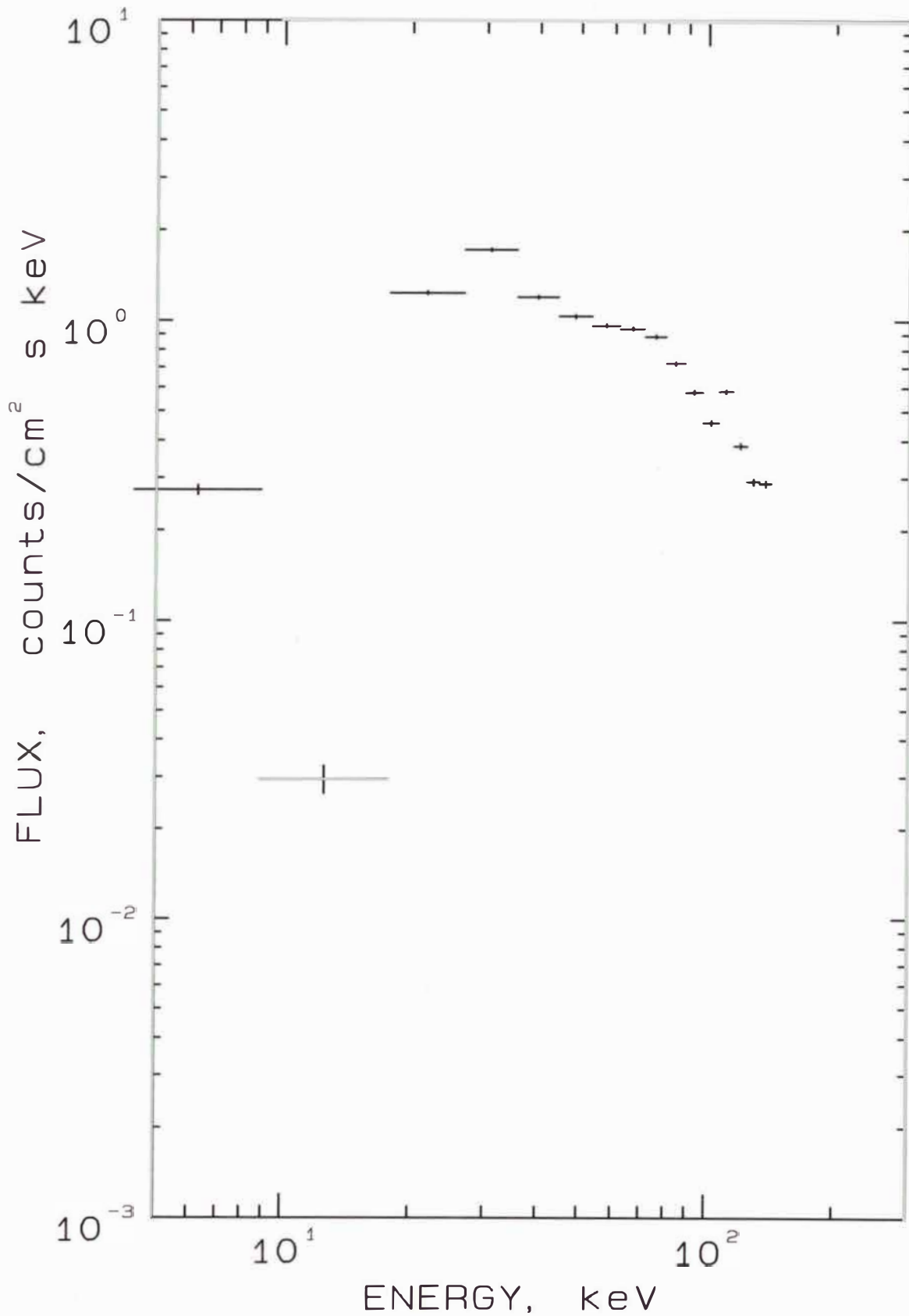




ULYSSES 22/08/95 14780.941

6/11/97

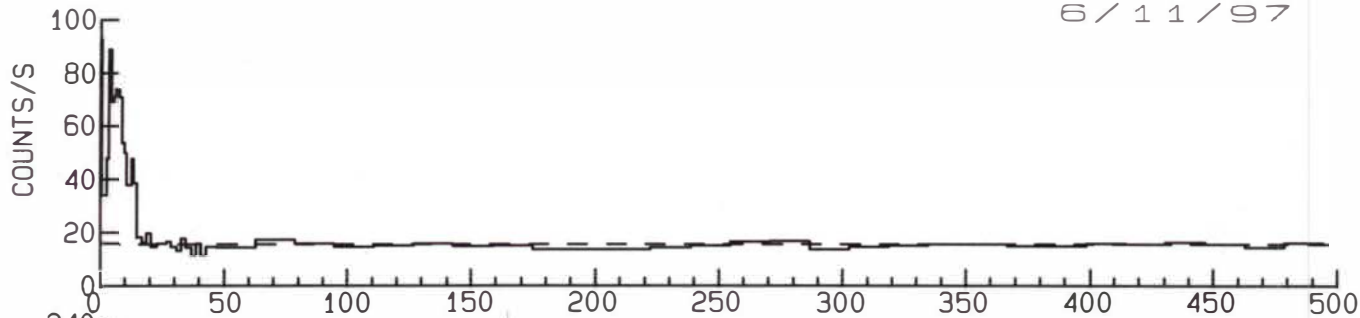
SPECTRUM INTEGRATED OVER 40.5 SECONDS, INTERVALS 2 TO 30



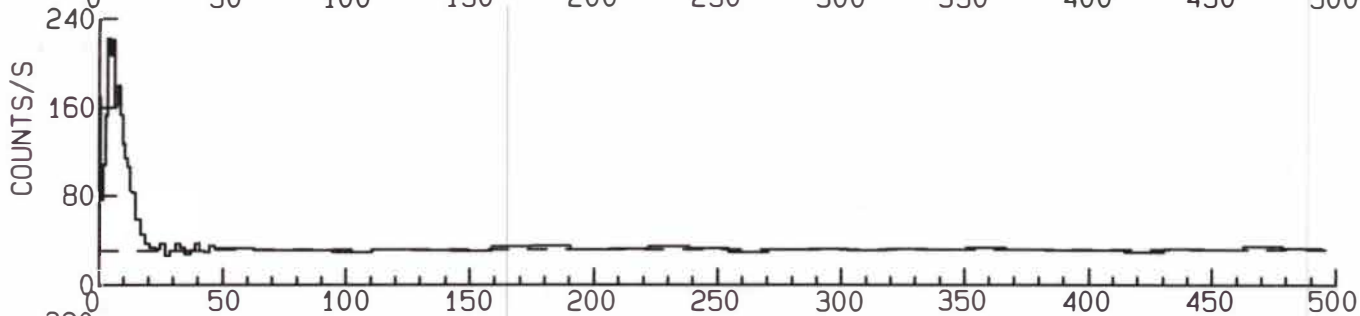
ULYSSES 22/08/95 14780.941 BURST SPECTRAL COUNT RATES

6 / 11 / 97

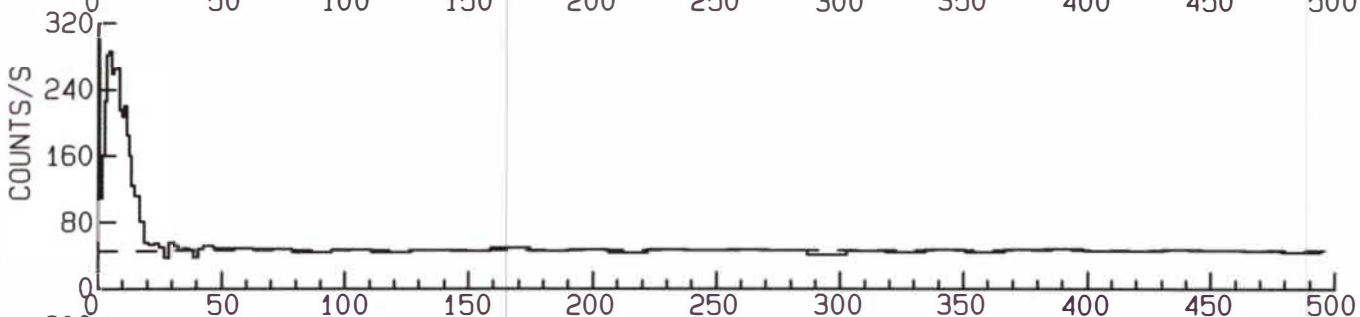
124-142 keV



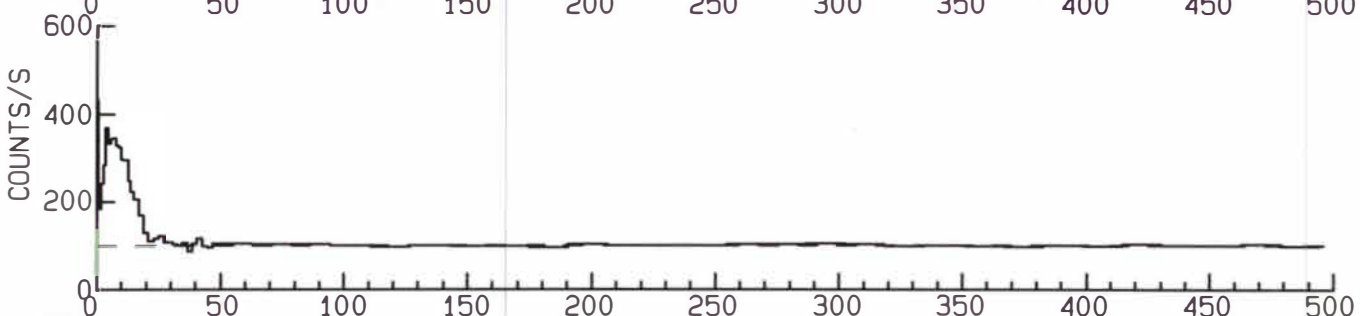
97-124 keV



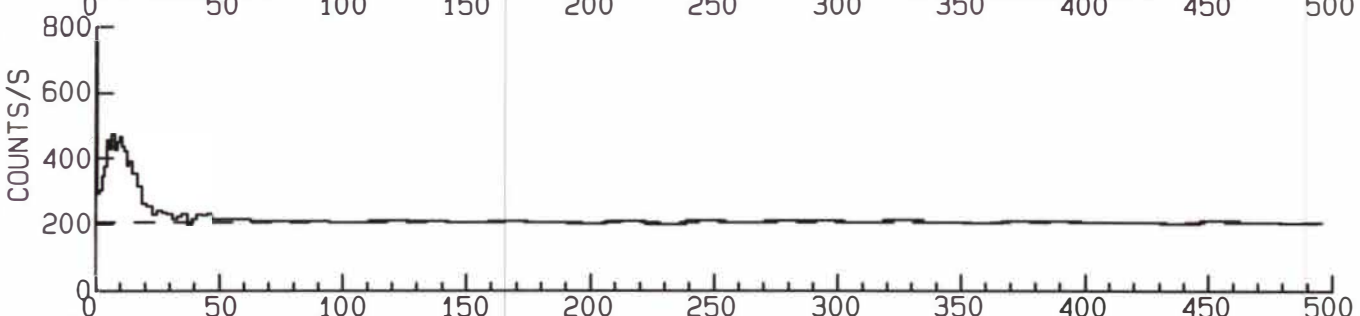
71-97 keV



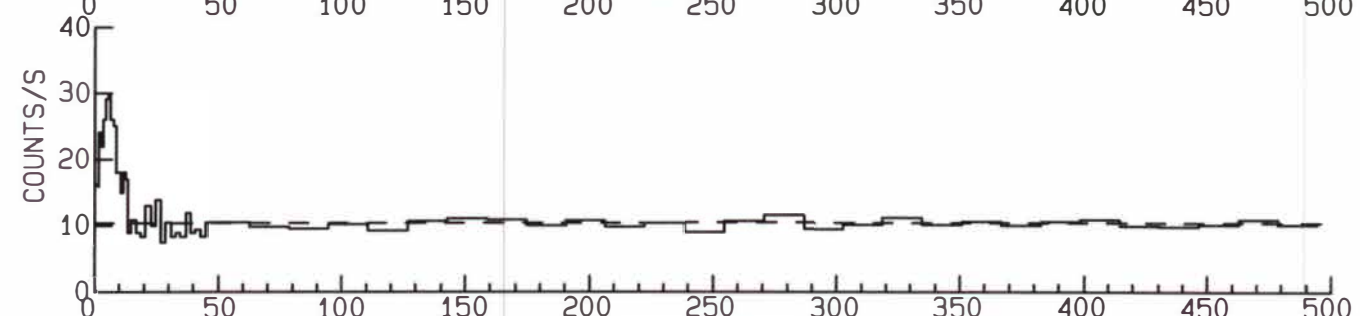
44-71 keV



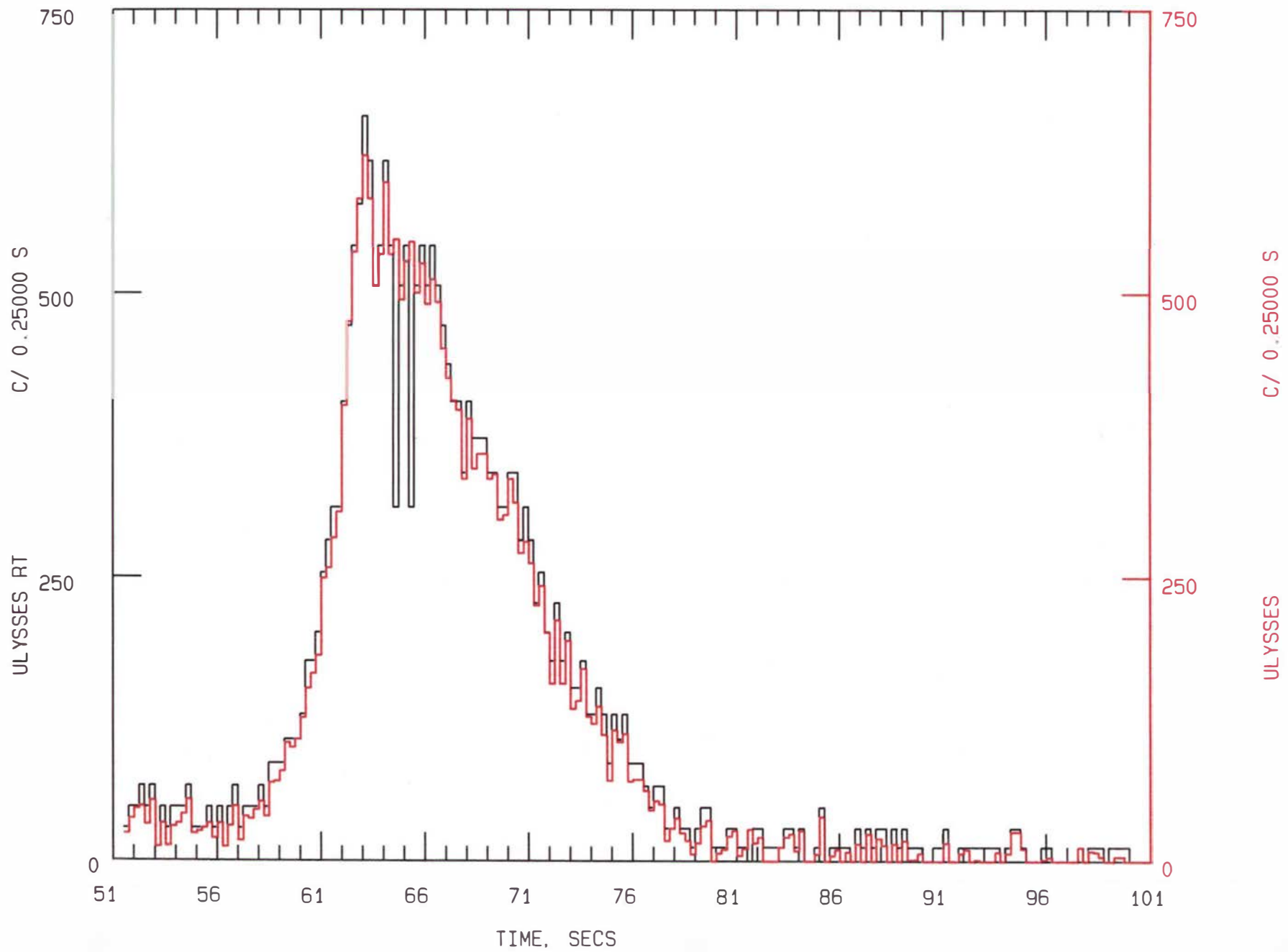
17-44 keV

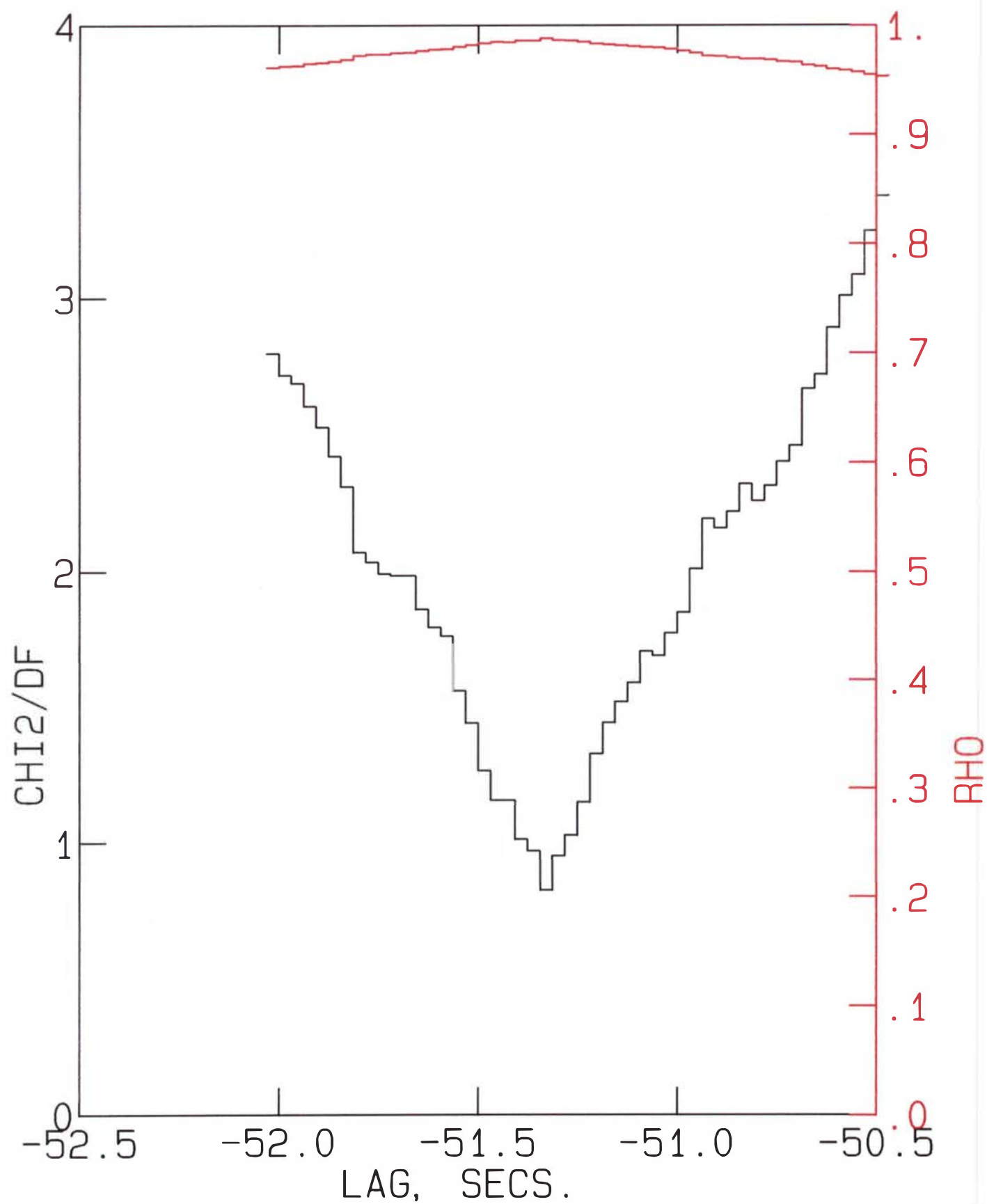


4-17 keV



TIME, SECS





ULYSSES

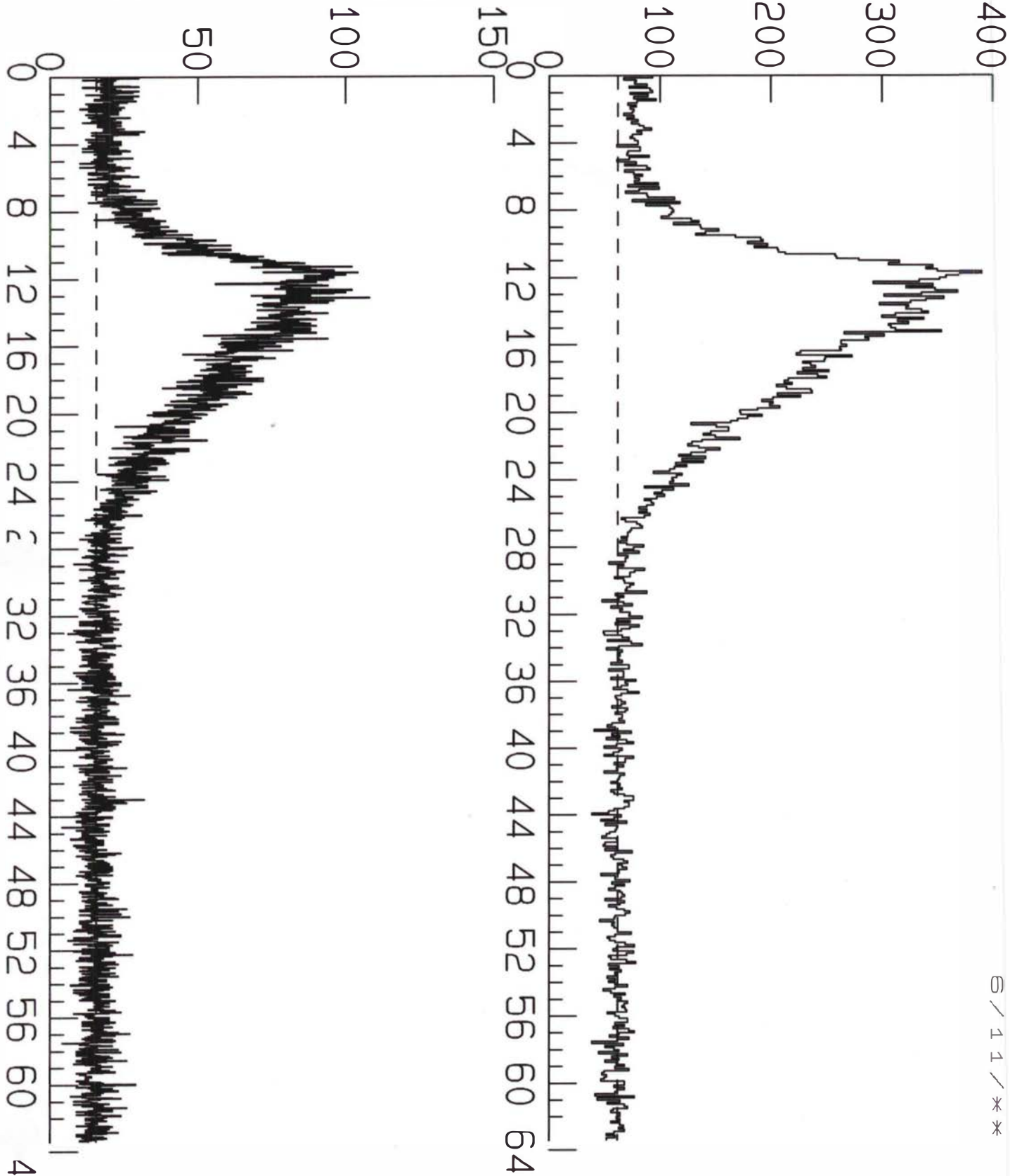
22/08/95

Ttrig=14780.975

21- 142 keV

COUNTS/0.031 S

COUNTS/0.125 S



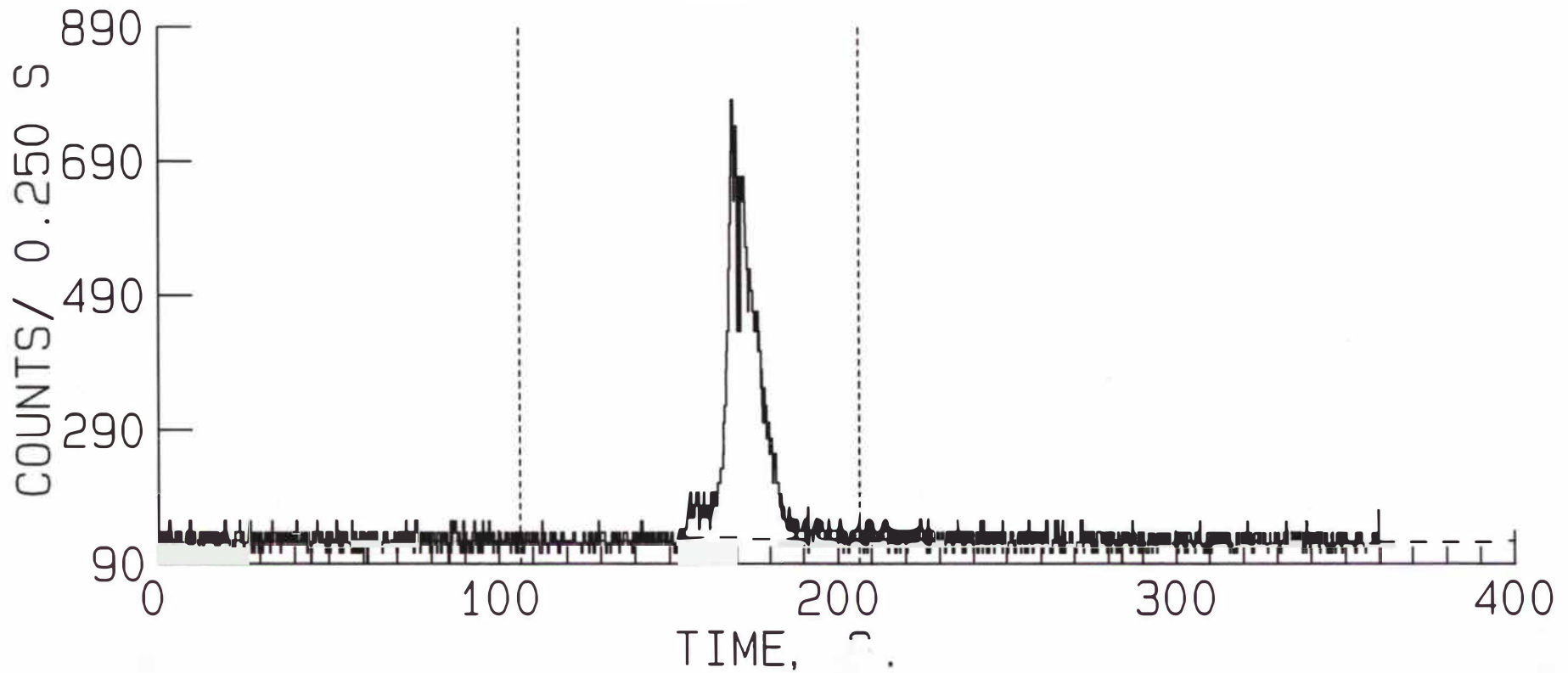
ULYSSES RT

6 / 11 / 97

22/ 8/95 14616.198 s

21- 142 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



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

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

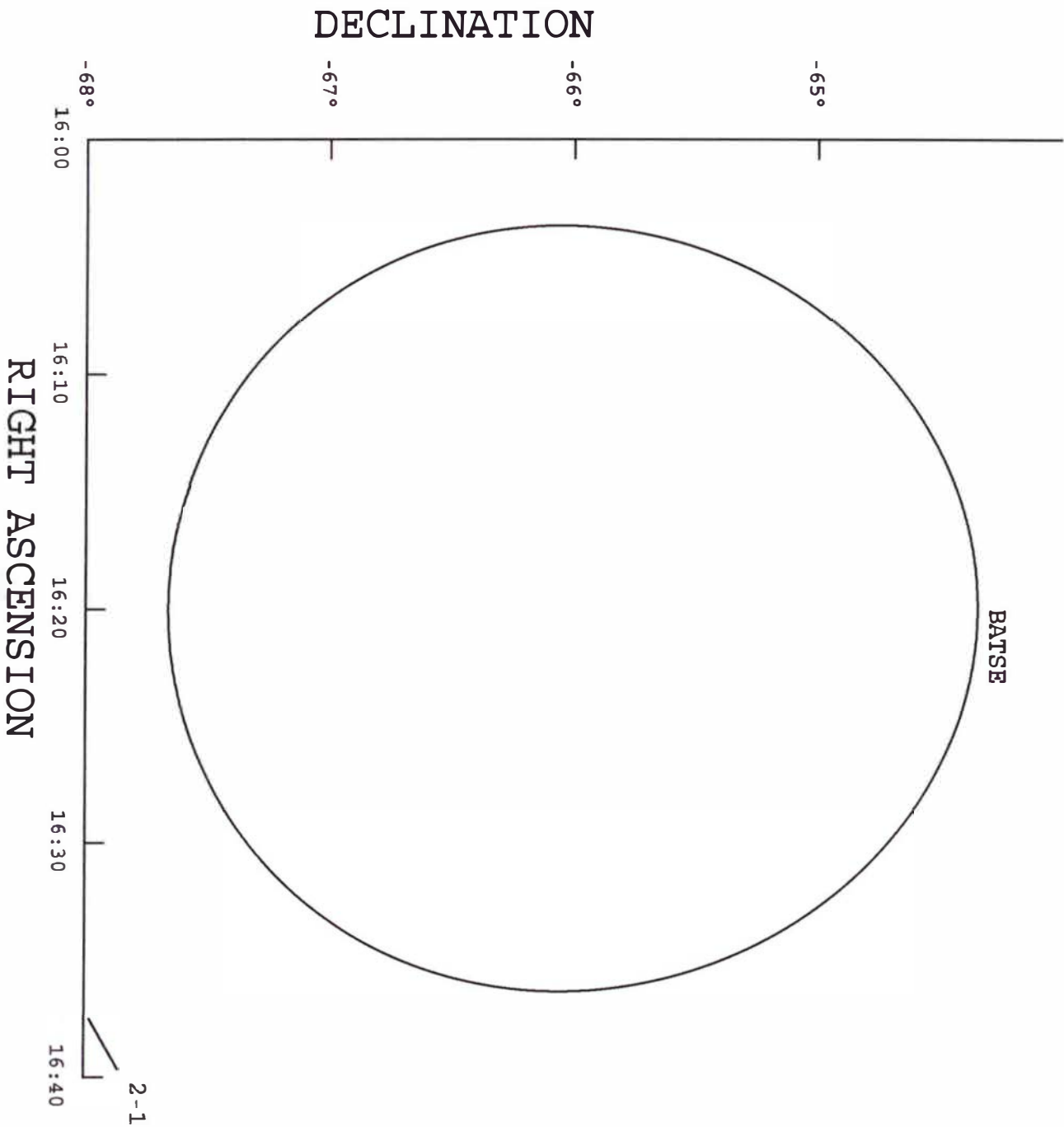
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF AUG 22, 1995 4:05

4 / 6 / 96



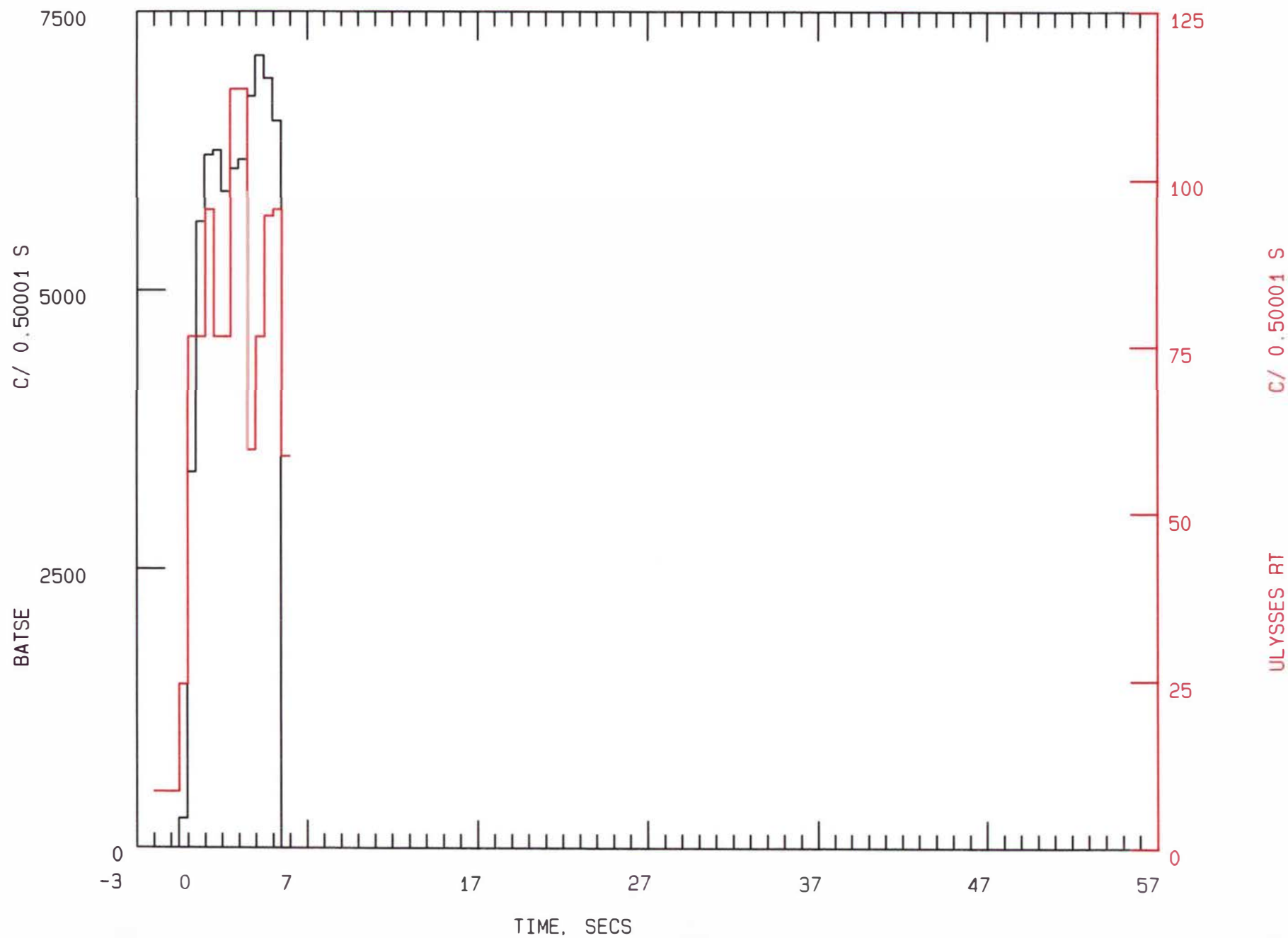
BATSE

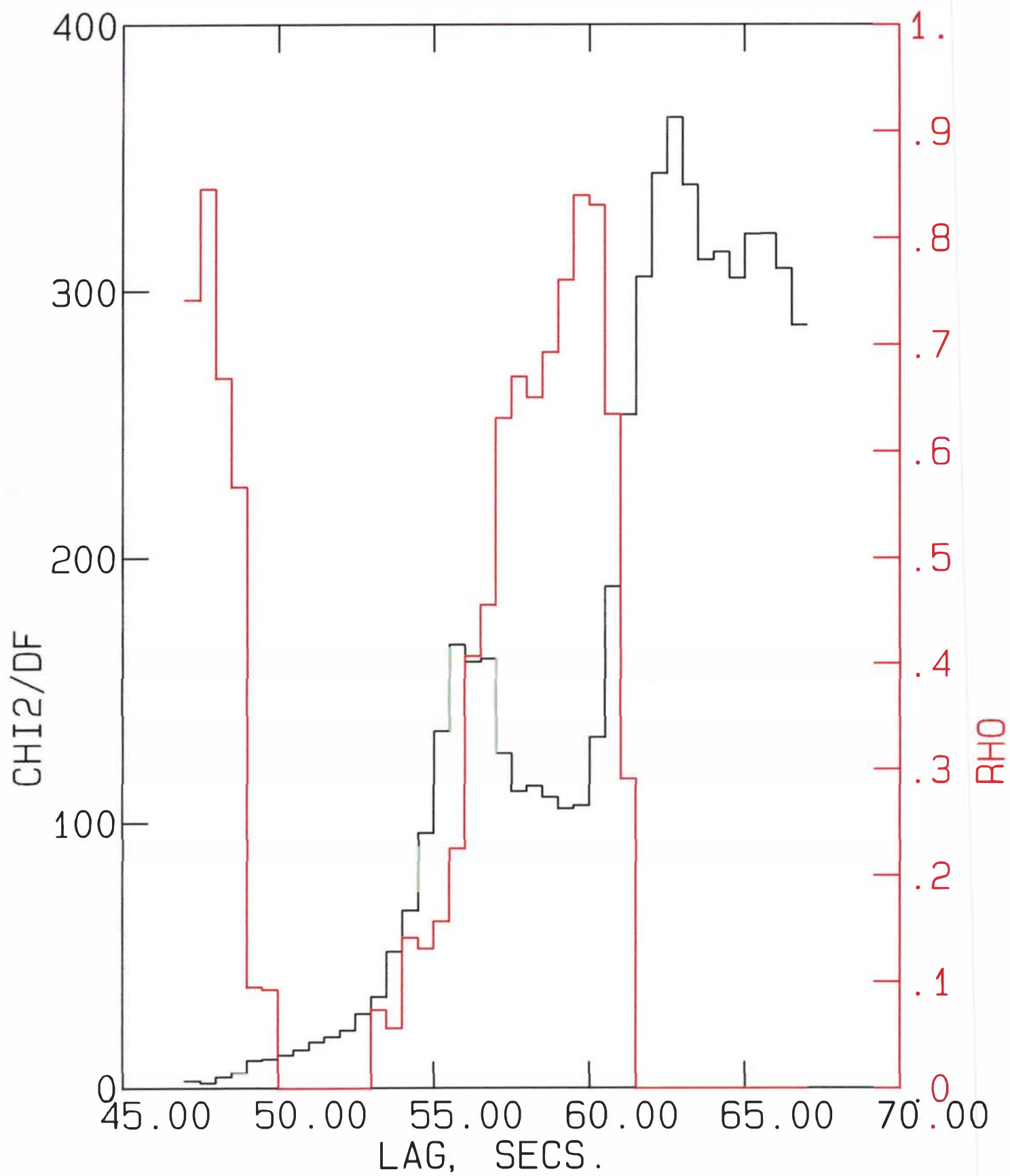
-ULYSSES RT CORRELATION

22/ 8/95

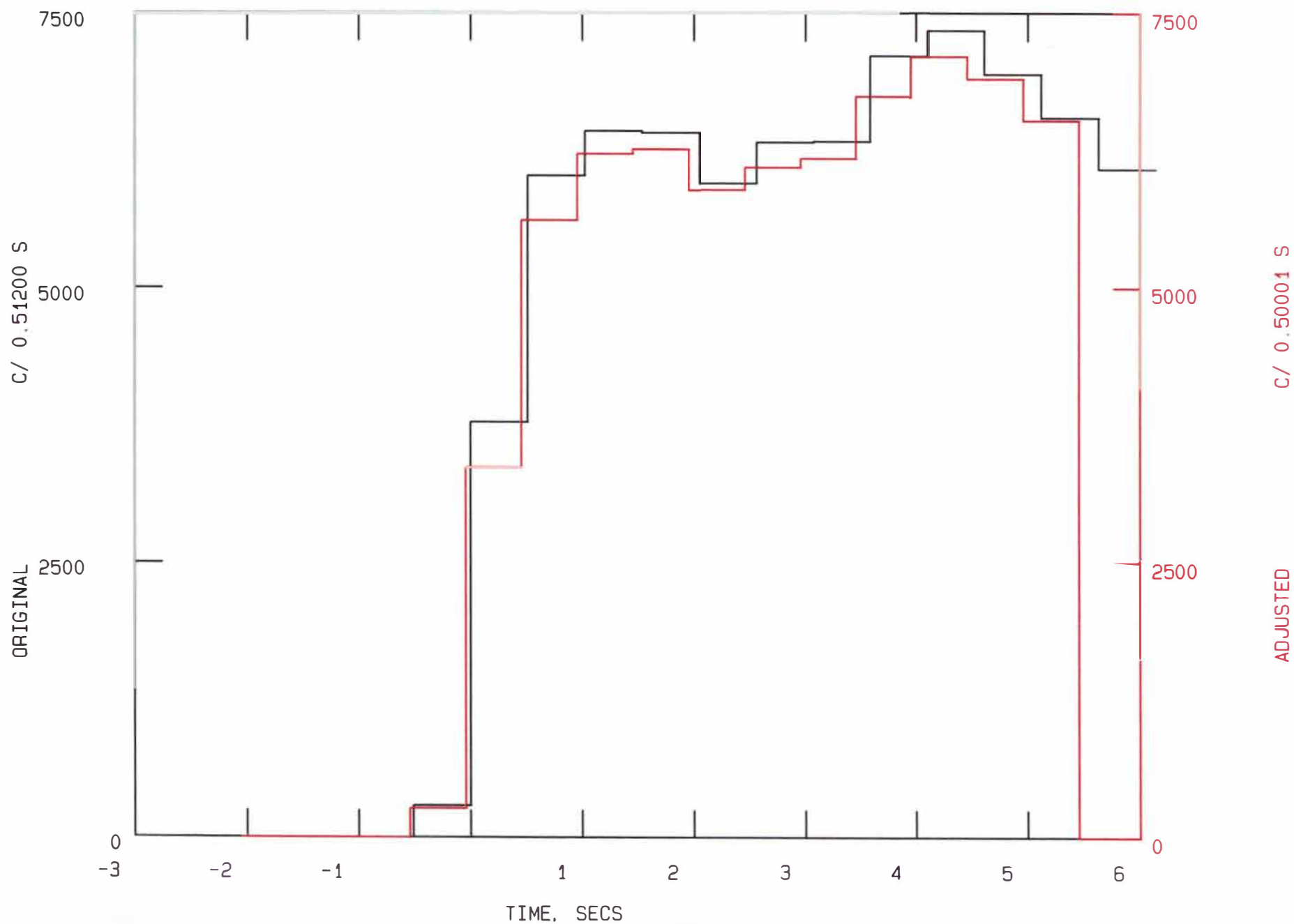
13749.618

4/ 6/96





4/ 6/96



N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

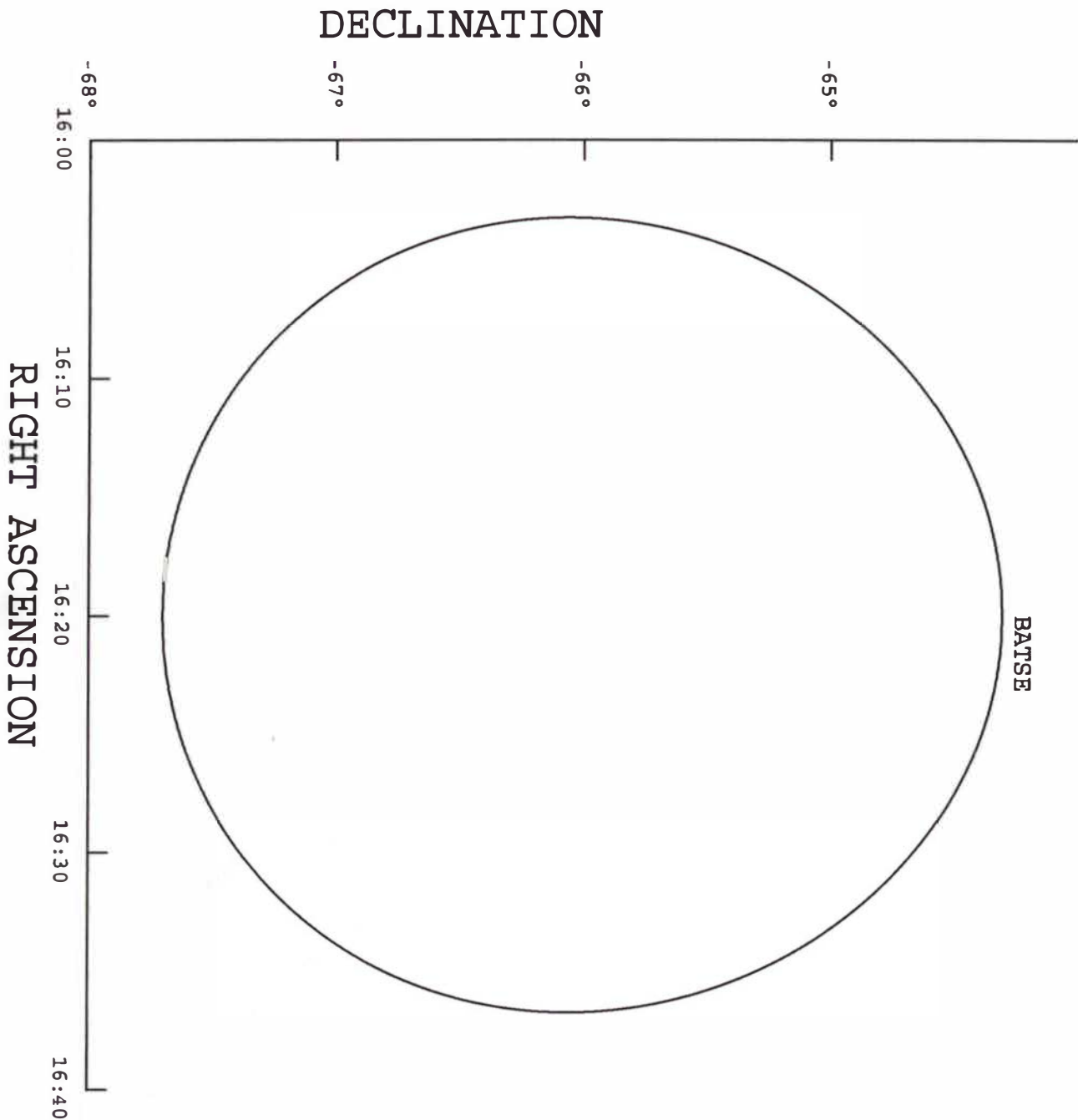
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF AUG 22, 1995 4:06

15/ 2/96



BATSE

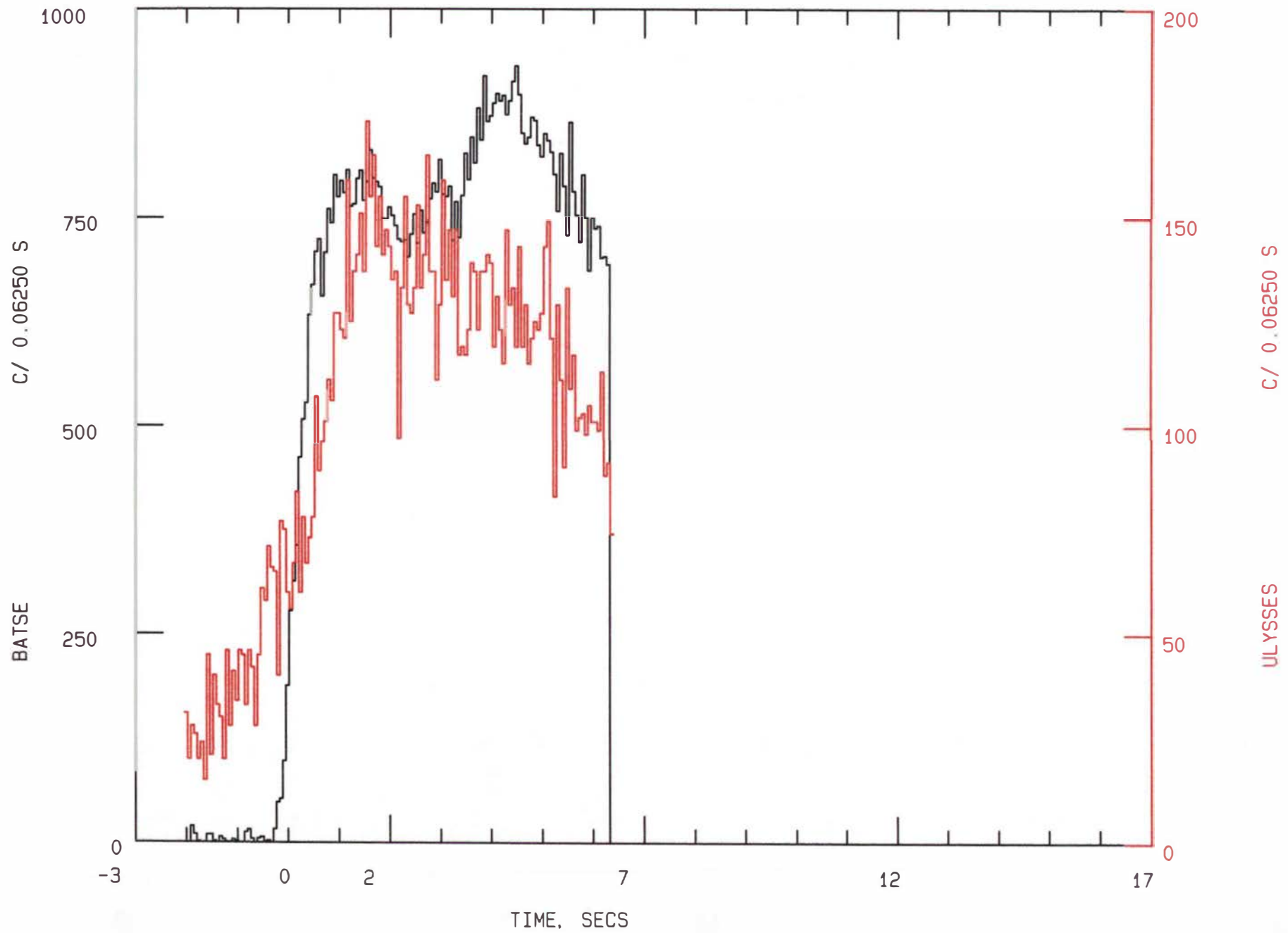
-ULYSSES

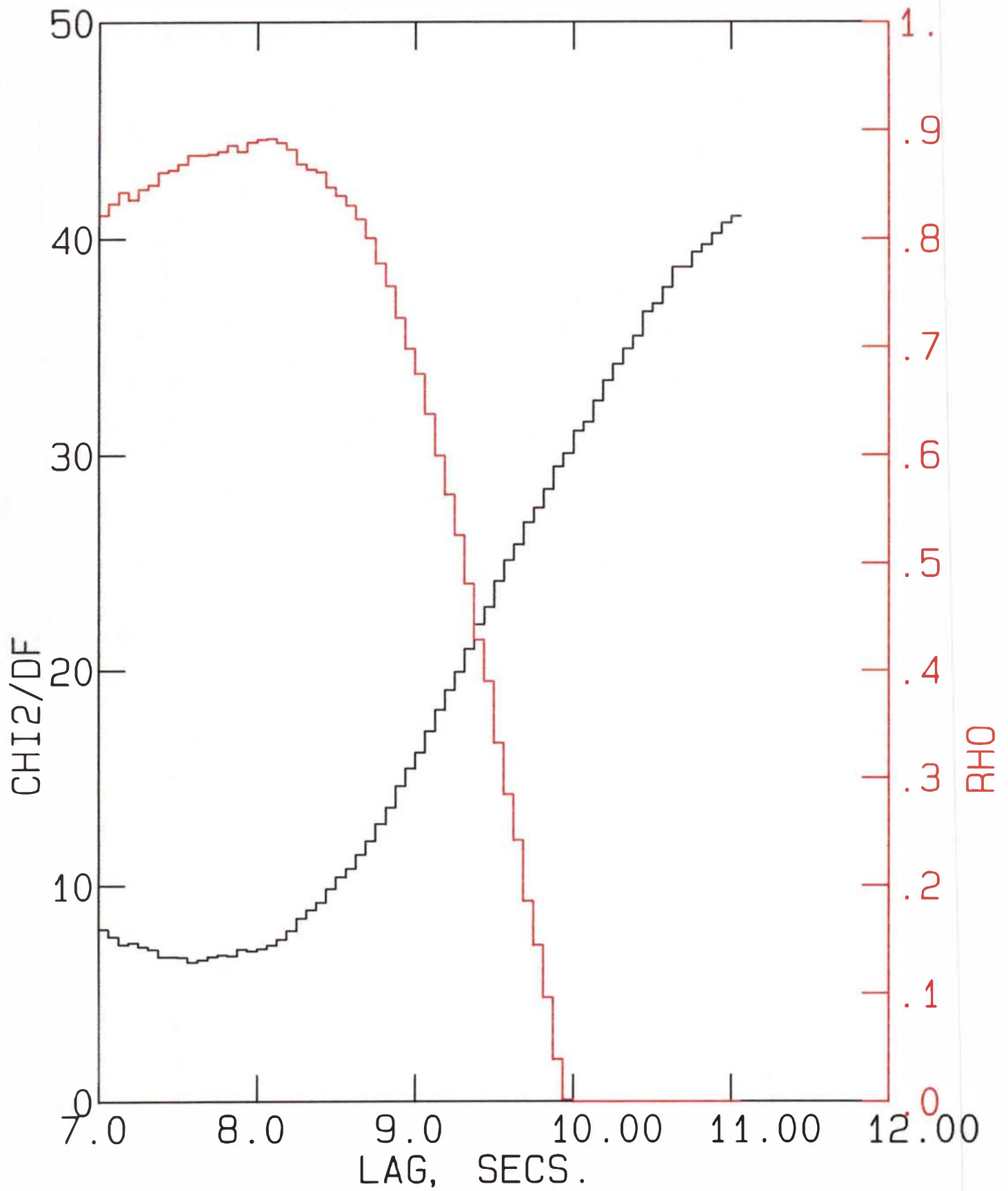
CORRELATION

22/ 8/95

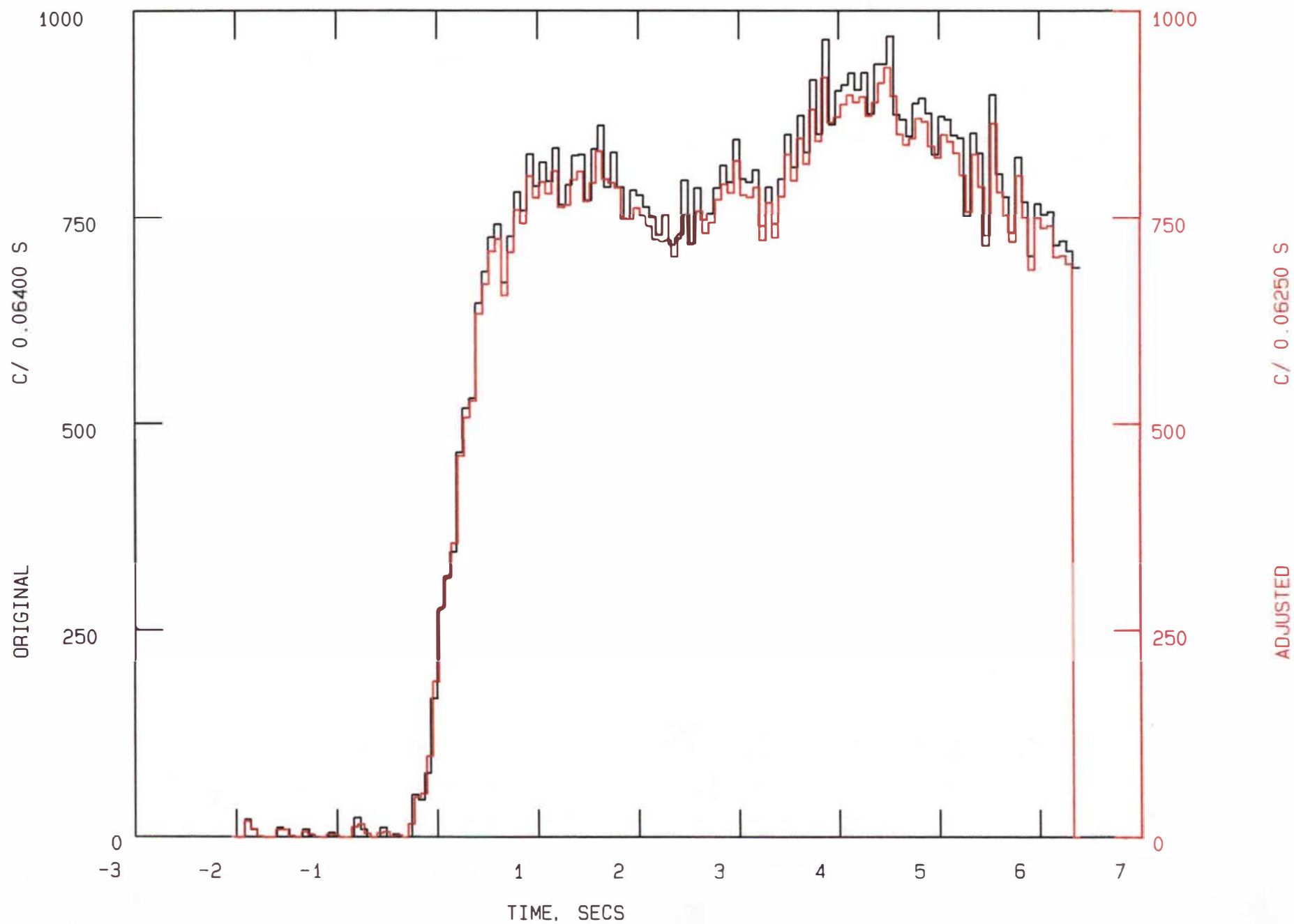
13749.618

15/ 2/96





15/ 2/96



N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

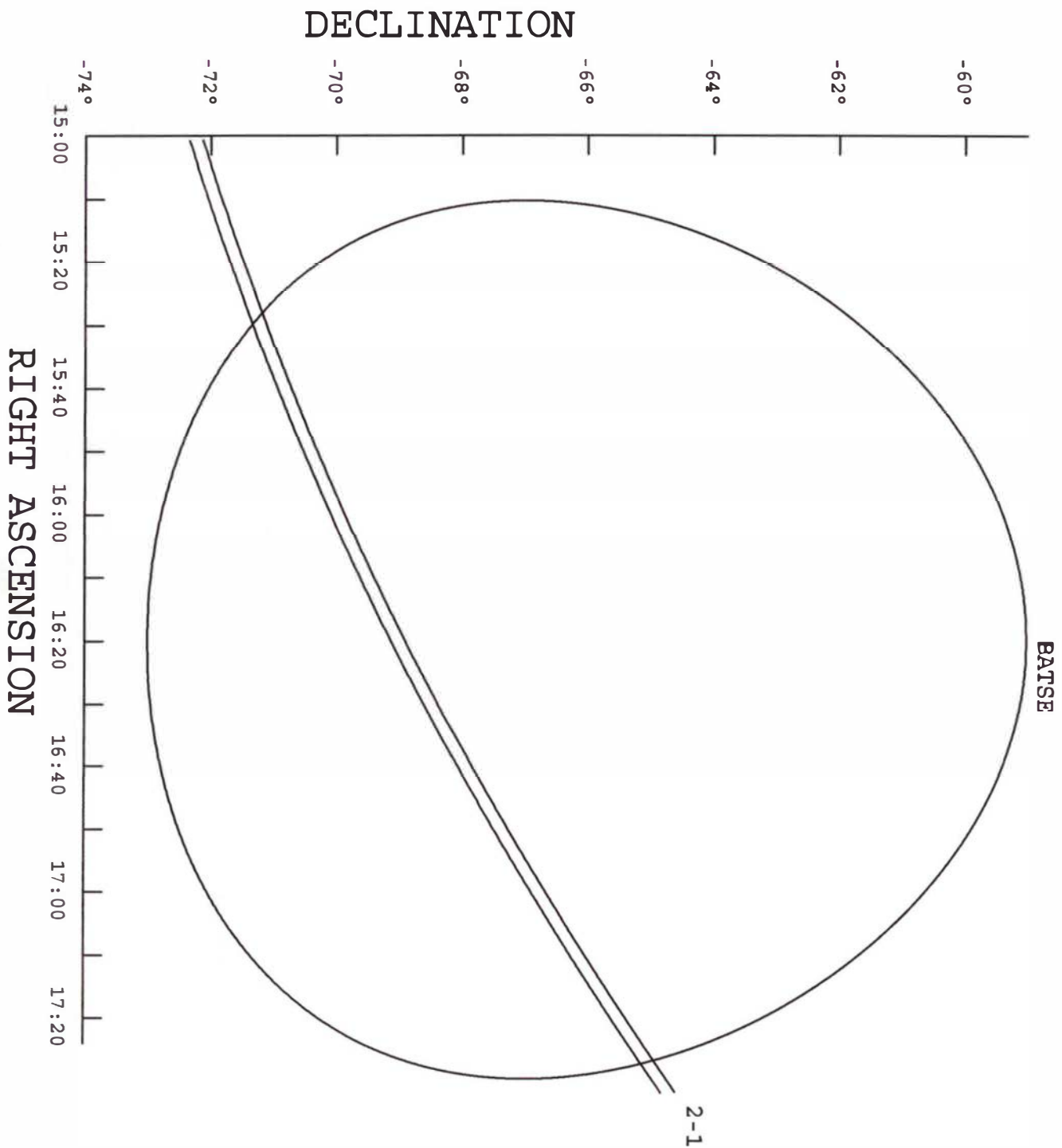
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF AUG 22, 1995 4:05

16/10/95



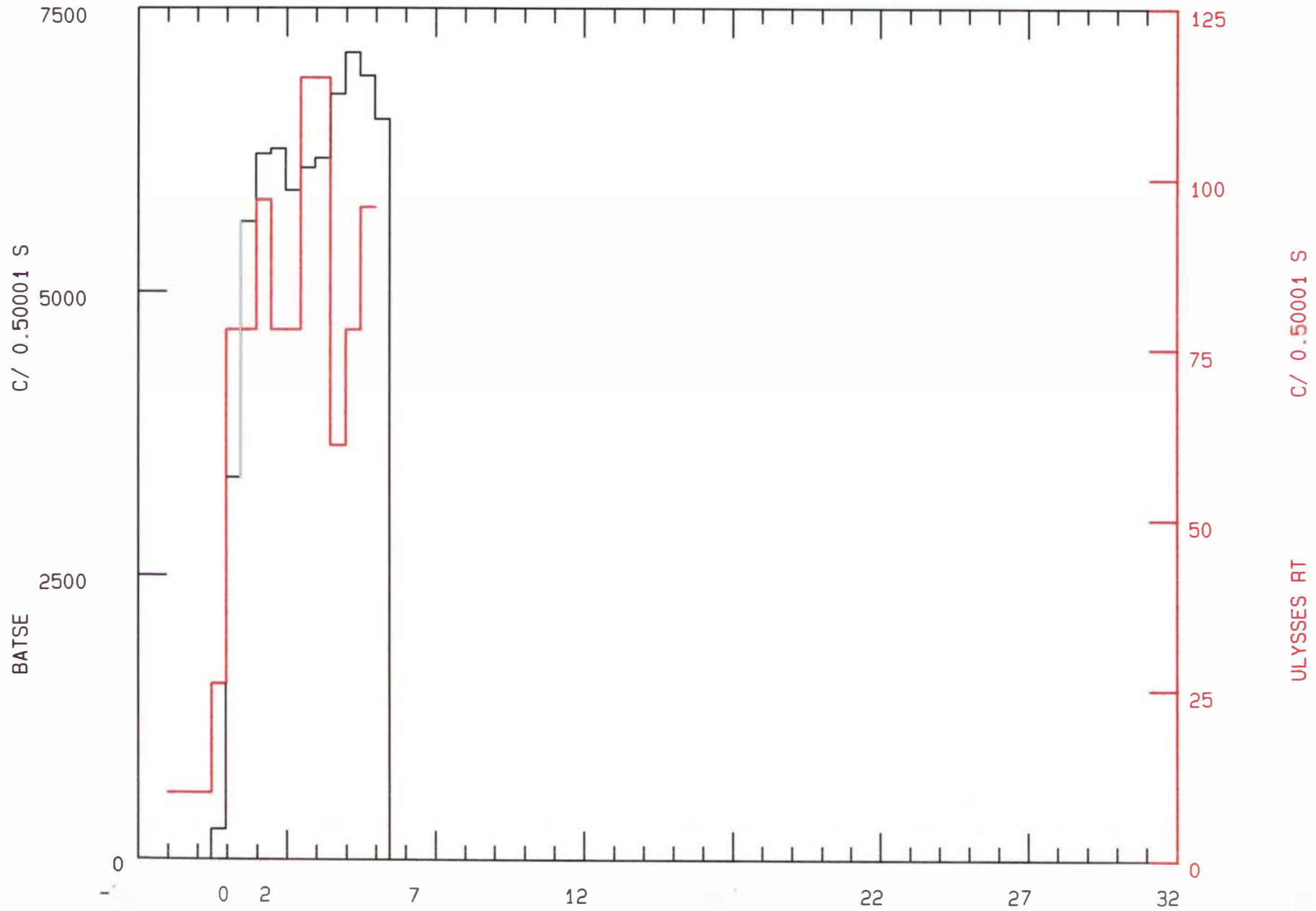
BATSE

-ULYSSES RT CORRELATION

22/ 8/95

13749.618

16/10/95



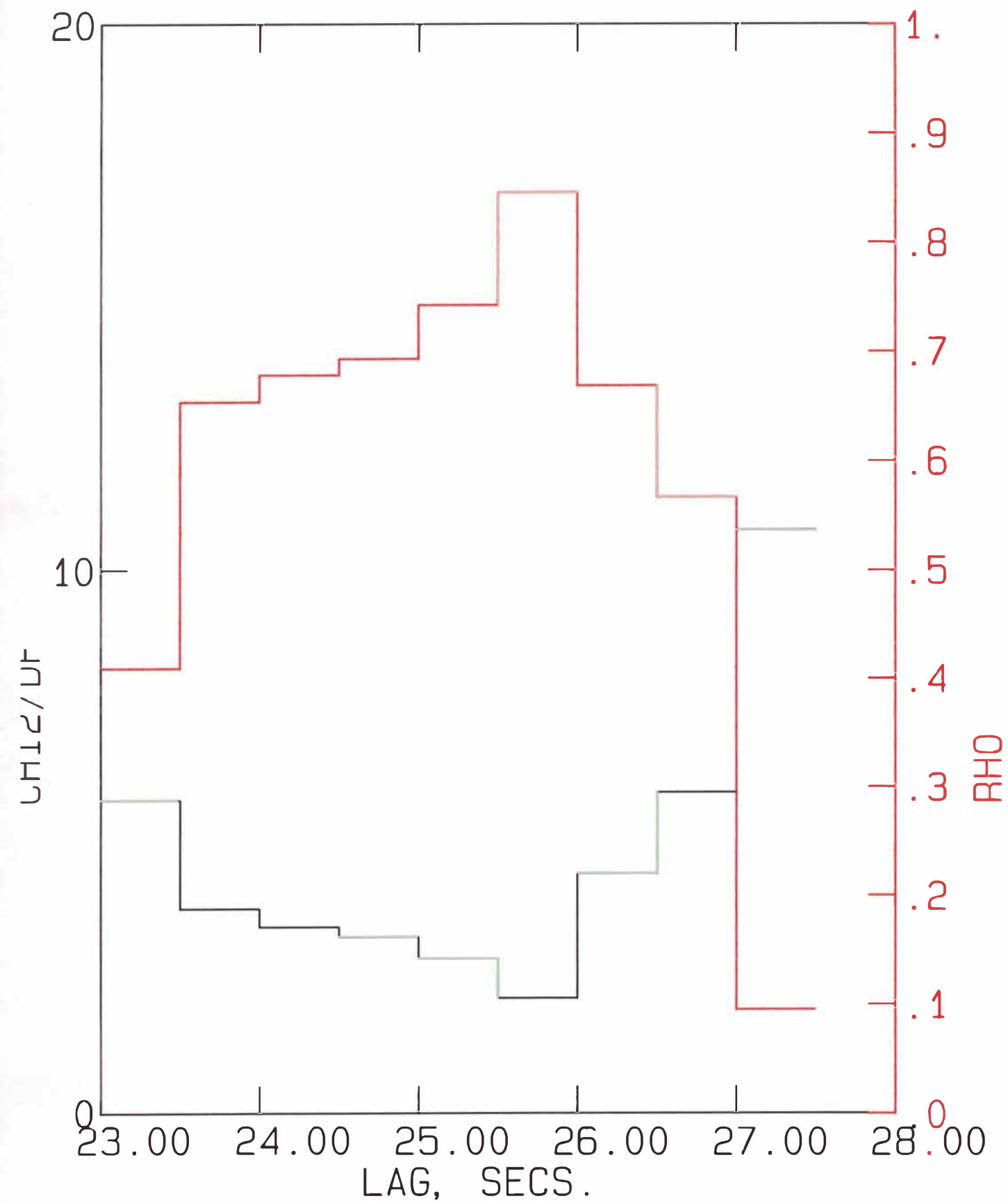
BATSE

-ULYSSES RT CORRELATION

22/ 8/95

13749.618

16/10/95



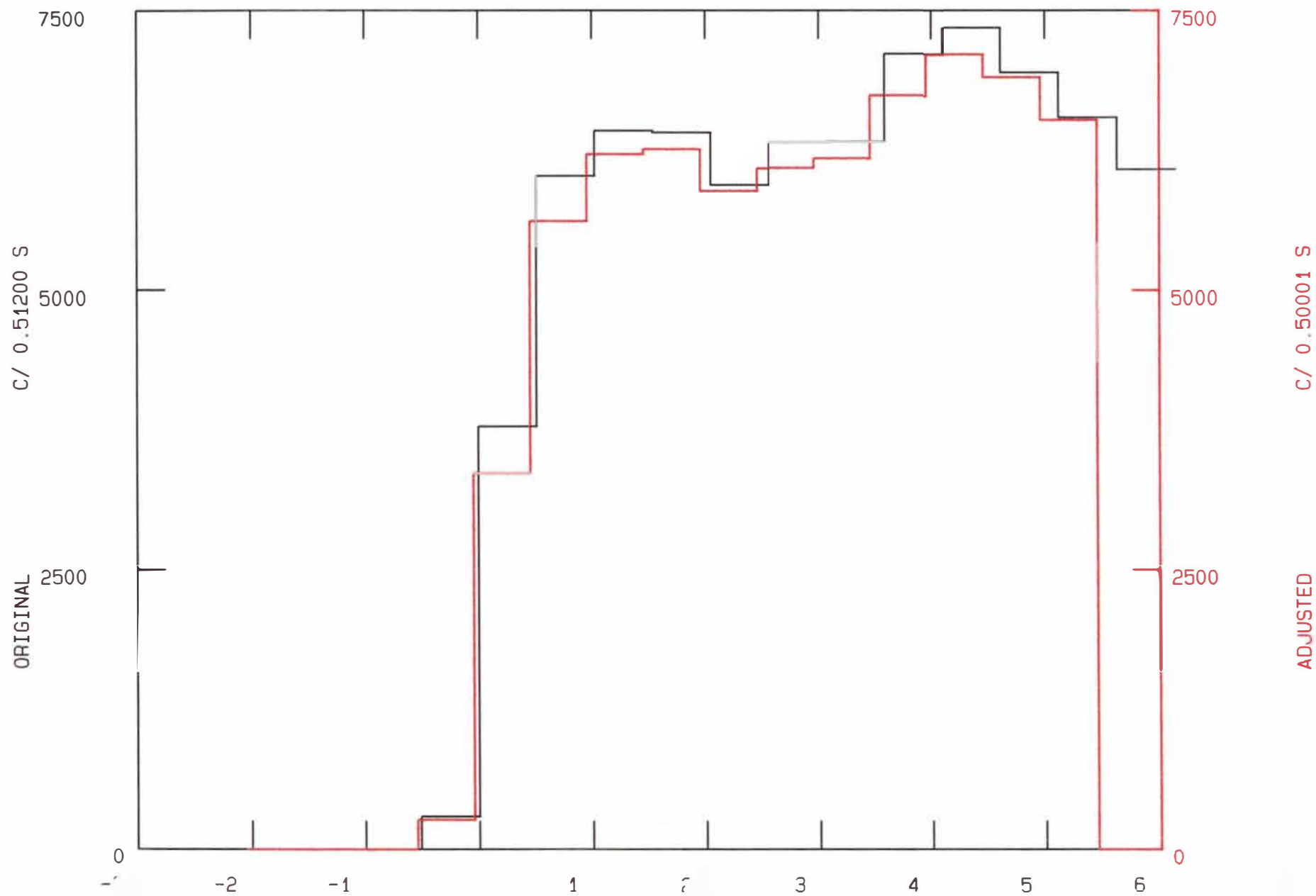
ORIGINAL AND ADJUSTED BATSE

TIME HISTORIES

22/ 8/95

13749.618

16/10/95

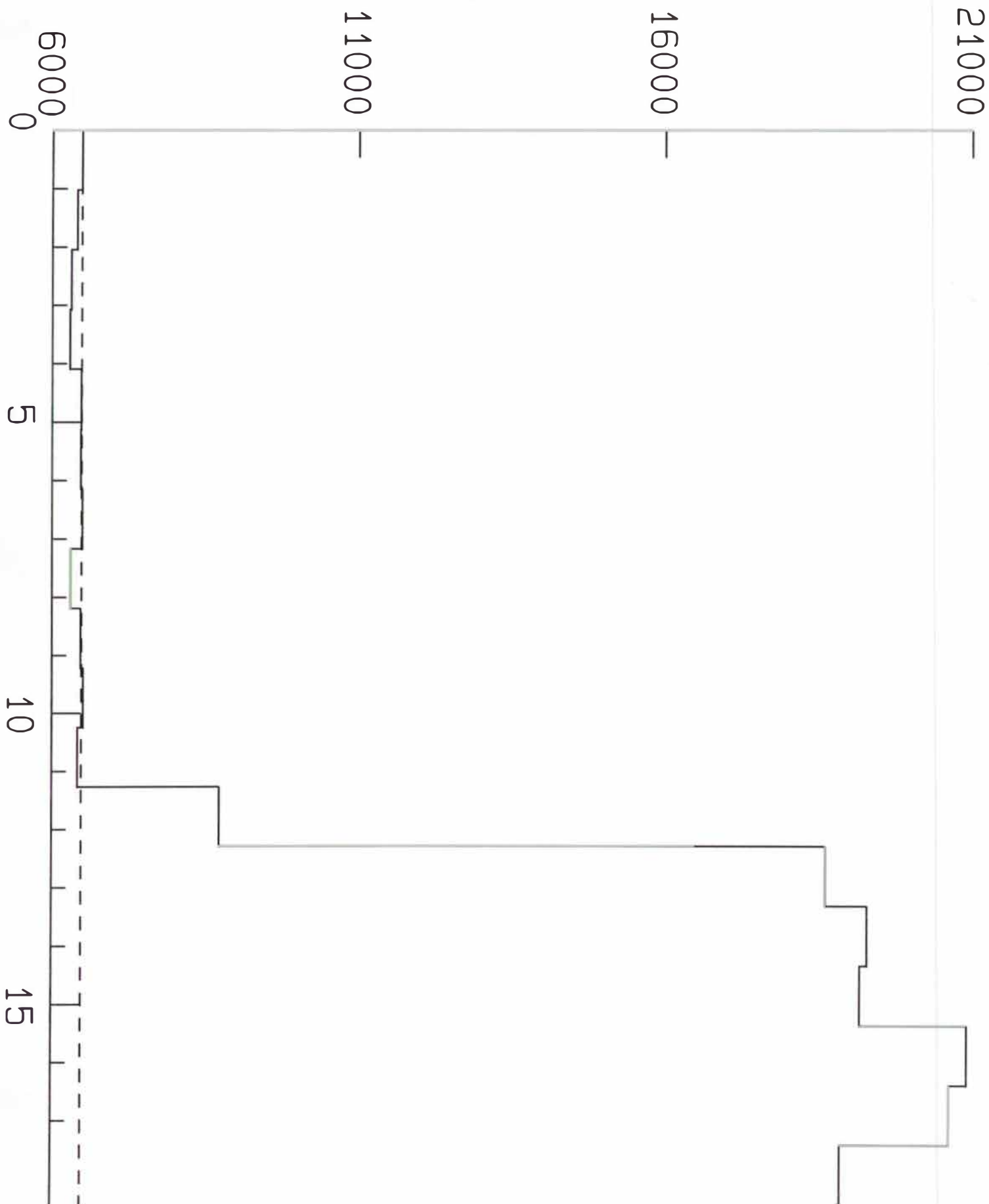


BACODINE

22/08/95

13737.649

25- 100 keV
COUNTS/1.024 S



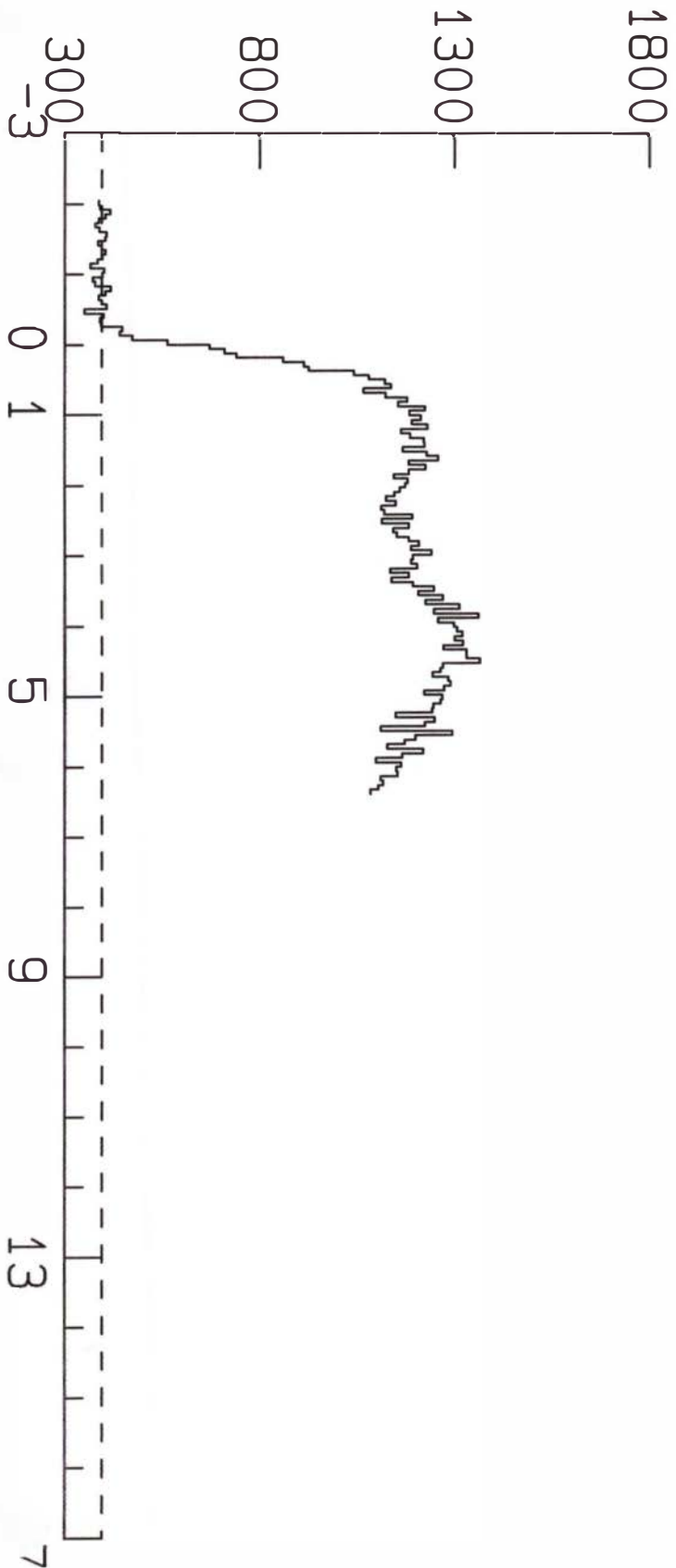
BATSE

22/08/95

13749.618

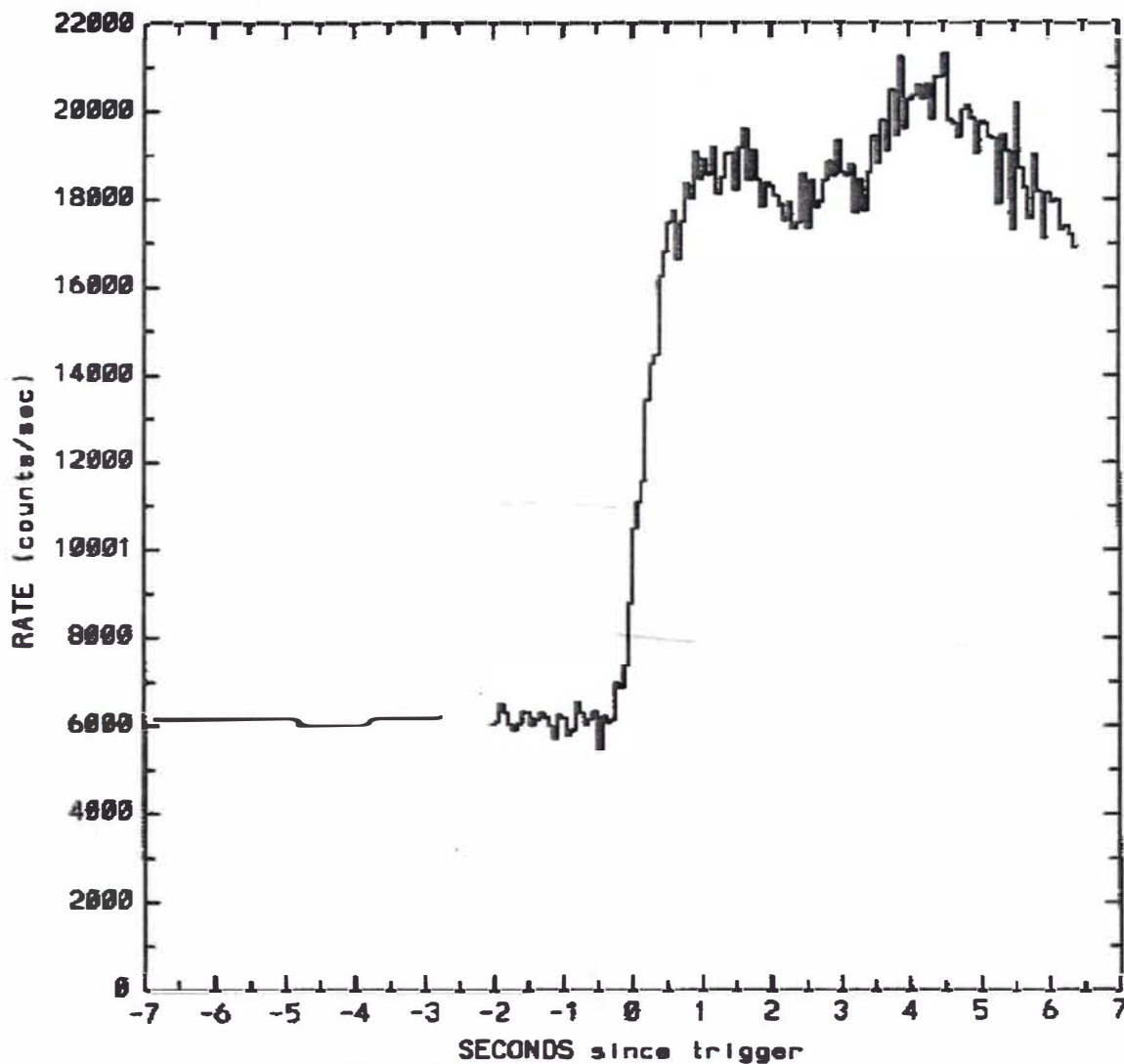
25- 100 keV

COUNTS/0.064 S



5 / 10 / 95

DISCSC Data for K. Hurley, No. 3767



From BUTTERWORTH@lheavx.gsfc.nasa.gov Thu Aug 24 14:10 PDT 1995
From: BUTTERWORTH@lheavx.gsfc.nasa.gov
Date: Thu, 24 Aug 1995 17:07:04 -0400 (EDT)
To: khurley@sunspot.ssl.berkeley.edu, CLINE@lheavx.gsfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov
CC: jterrell@lanl.gov, kmarar@isac.ernet.in, BUTTERWORTH@lheavx.gsfc.nasa.gov,
TEEGARDEN@lheavx.gsfc.nasa.gov, PALMER@lheavx.gsfc.nasa.gov
Subject: GRB950822 near 4UT - Konus saw it too

Kevin,

Konus triggered at 03:49:10.530 in the southward-facing detector. It saw a bright event, which evolved slowly over 35 seconds without much fine structure. Three peaks are present. The smallest of them, which generated the trigger, is best defined above 200 keV, rose for about 0.5 seconds and then fell away over several seconds. The strongest peak occurred about 13 seconds after the trigger. It too was quite hard. A third, softer peak is present around 17 seconds. From 17 seconds to 35 seconds after the trigger there is a steady decline in brightness towards background levels.

Paul.

From: LHEAVX::BUTTERWORTH 24-AUG-1995 14:50:18.30
To: SMTP%"khurley@sunspot.ssl.berkeley.edu"
CC: TOM, SCOTT, BONNARD, DAVIDP, SMTP%"jterrell@lanl.gov", SMTP%"kmarar@isac.ernet.in", BUTTERW
Subj: GRB950822 near 4UT

Hi Kevin,

This event was seen by BATSE. It's trigger 3767 at 03:49:09.61 UT.
BACODINE saw the initial pulse, but the next half hour was dominated by bad real-time telemetry.

We don't have the Konus data for the 22nd yet. As soon as it arrives I'll scan it and send a report to this distribution.

Paul.

Also TGRS

From: SMTP%"khurley@sunspot.ssl.berkeley.edu" 24-AUG-1995 14:11:23.75
To: BUTTERWORTH
CC:
Subj: grb 950822

Date: Thu, 24 Aug 1995 10:54:47 -0700
From: khurley@sunspot.ssl.berkeley.edu (Kevin Hurley)
Message-Id: <9508241754.AA02199@charybdis.>
To: cline@lheavx.gsfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: grb 950822
Cc: teegarden@lheavx.gsfc.nasa.gov, butterworth@lheavx.gsfc.nasa.gov,
jterrell@lanl.gov, kmarar@isac.ernet.in
X-Sun-Charset: US-ASCII

Ulysses detected a very intense GRB around 4:06 UT (at Ulysses) on August 22. Did anyone else detect it? There is no report of a BATSE event yet.

From isac.ernet.in!kmarar@vigyan.iisc.ernet.in Tue Sep 26 20:16 PDT 1995
Date: Tue, 26 Sep 1995 11:02:03 GMT
From: kmarar@isac.ernet.in
To: vigyan!khurley@sunspot.ssl.berkeley.edu
Subject: Aug 22 event
Cc: vigyan!kmarar@isac.ernet.in

Dear Kevin

The August 22 and 25 events detected by Ulysses were not detected by us.

Have you done a triangulation of our May 12 event?

Can you send Ulysses spacecraft data (position at the time of May 12 event) to us so that we can also try our triangulation routine? and compare notes with you? Time of detection at Ulysses also needed.

Or else can you kindly send us for one or two events, the times of detection at any two or three spacecrafts and the corresponding spacecraft positions and your solutions such that we check our software results with yours?

Many thanks
Krishnan

From SAHI@ssl.msfc.nasa.gov Wed Aug 30 11:13 PDT 1995
From: SAHI@ssl.msfc.nasa.gov
Date: Wed, 30 Aug 1995 13:13:35 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3768

BATSEARCH PROGRAM

NO

BATSE BURST # 3768
EVENT OF 1995 AUG 22 DAY OF YEAR=234
EVENT CROSSING TIME AT BATSE : 33568. S. OR 09:19:28.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 126.000 -17.000
BATSE PEAK COUNTING RATE: 3000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 22/ 8/ 95 IS:
RA= 180.992 DEC= 73.146 DIST= 2.423 AU
BATSE-ULYSSES DISTANCE = 362535564. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 83.06 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 146.02 SECS.
CROSSING TIME AT ULYSSES IS 33714. S. OR 09:21:54 +/- 260.63 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 22/ 8/ 95 IS:
RA= 197.920 DEC= -7.608 DIST= 1.974 AU
MARS-BATSE DISTANCE = 295266880. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=109.44 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -327.85 SECS.
CROSSING TIME AT MARS IS 33240. S. OR 09:14:00 +/- 156.26 SECONDS

BATSE BURST TRIGGER

NO.: 3768

TIME: TJD=9951 SECONDS=33568

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=56.9 AZIMUTH=303.2 ERROR=1.69 DEGREES

COMMENTS:

BURST. SINGLE PULSE, DUR.~25 SECS. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3768	950822	9951	33568	3000	126	-17	25

30 / 8 / 95

ULYSSES RT

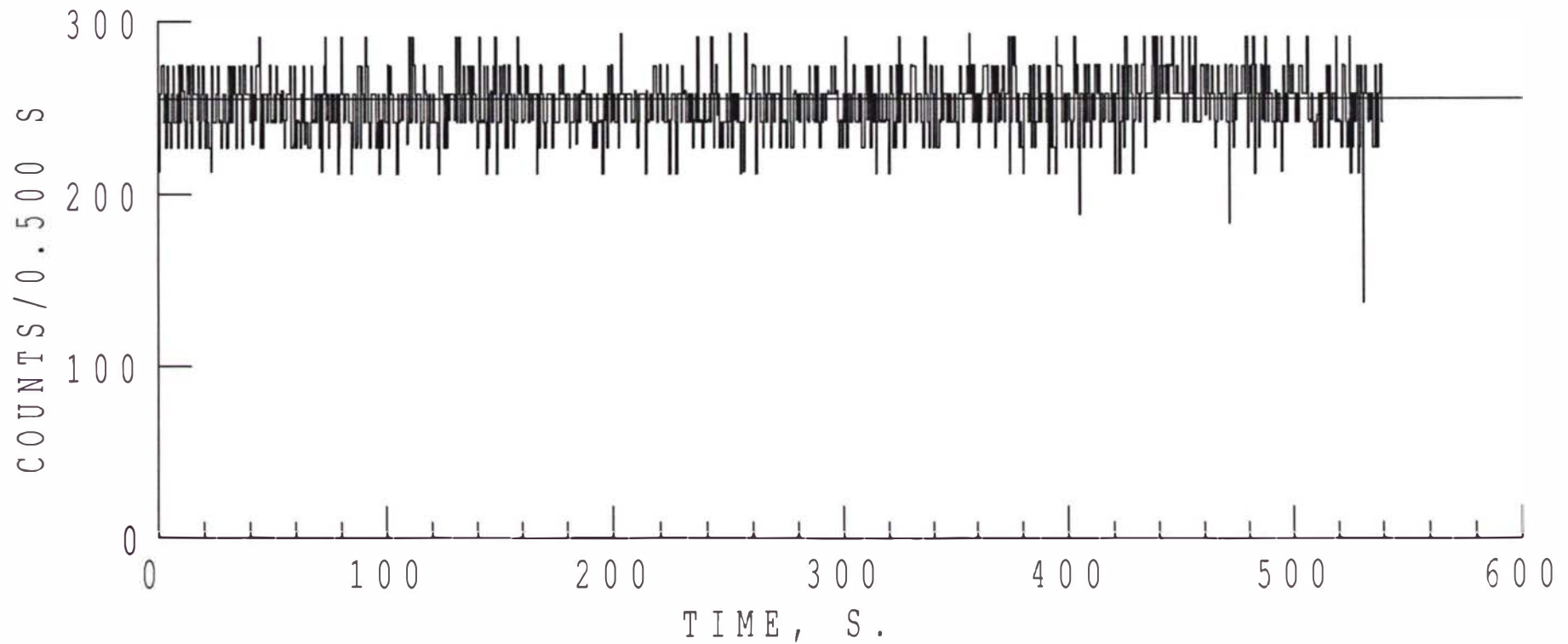
22 / 8 / 95 33444.027 s

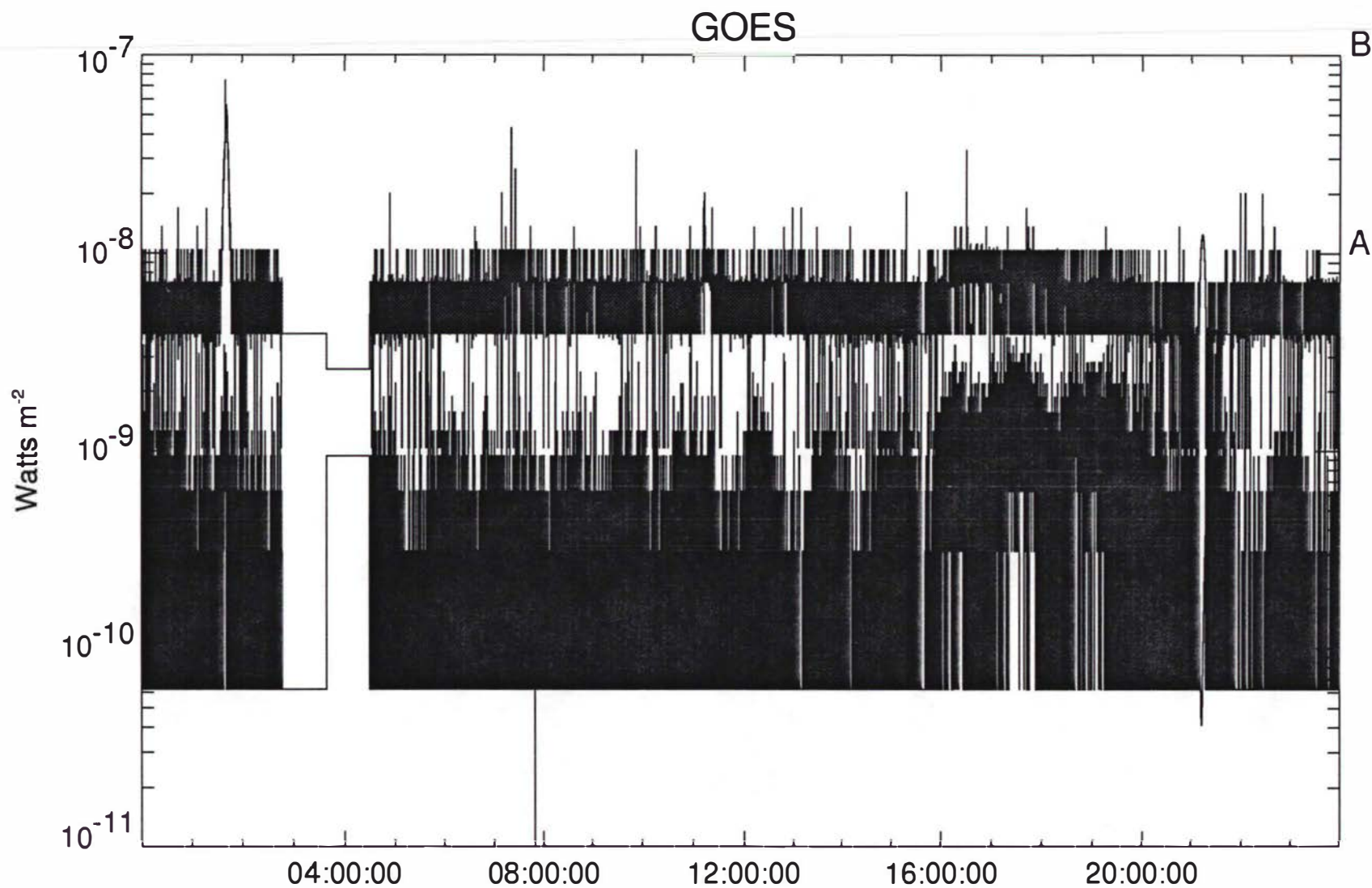
0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS





Data Start: 95/08/22, 0000:00

Plot created: 95/08/24, 0529

Channel

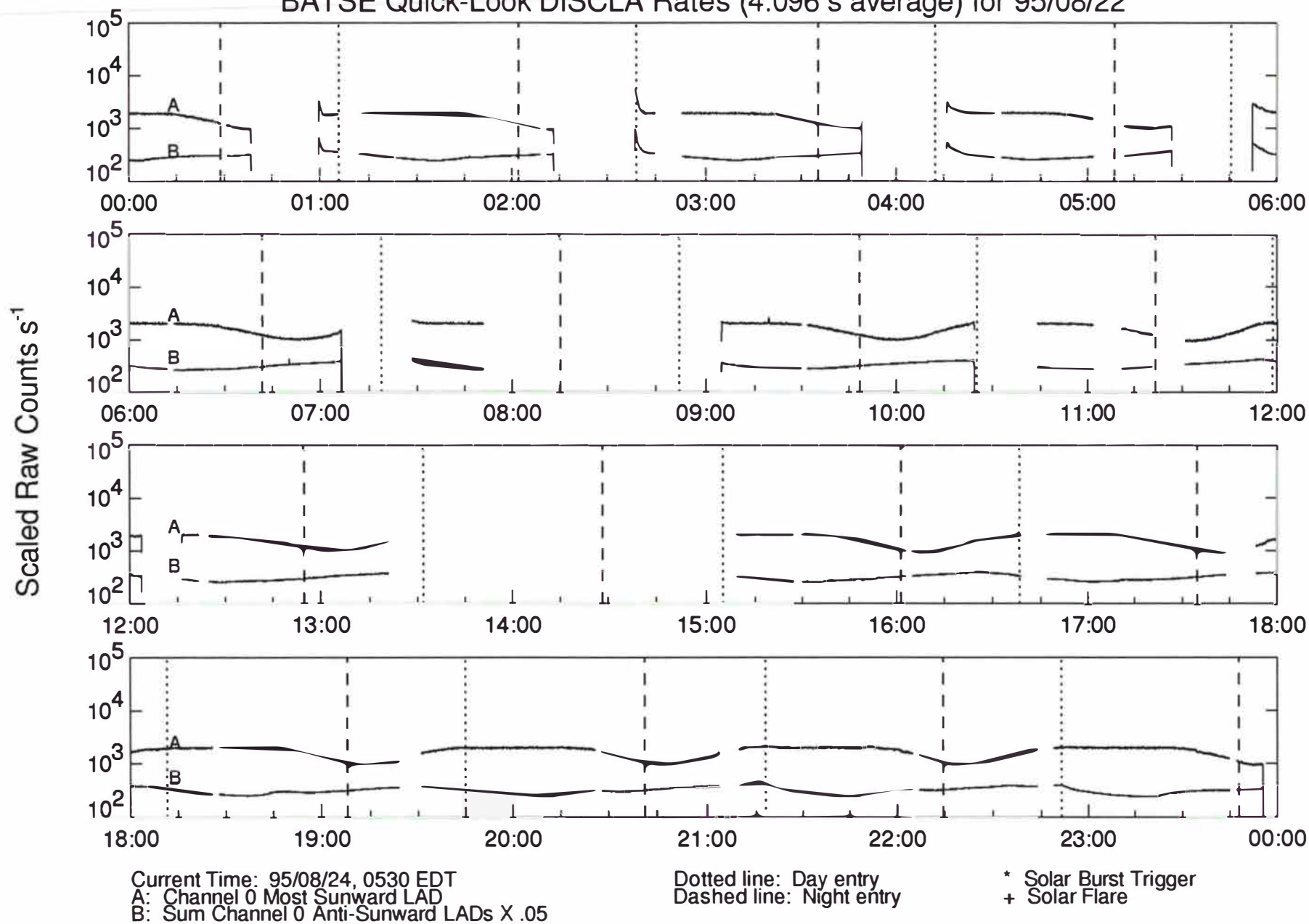
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

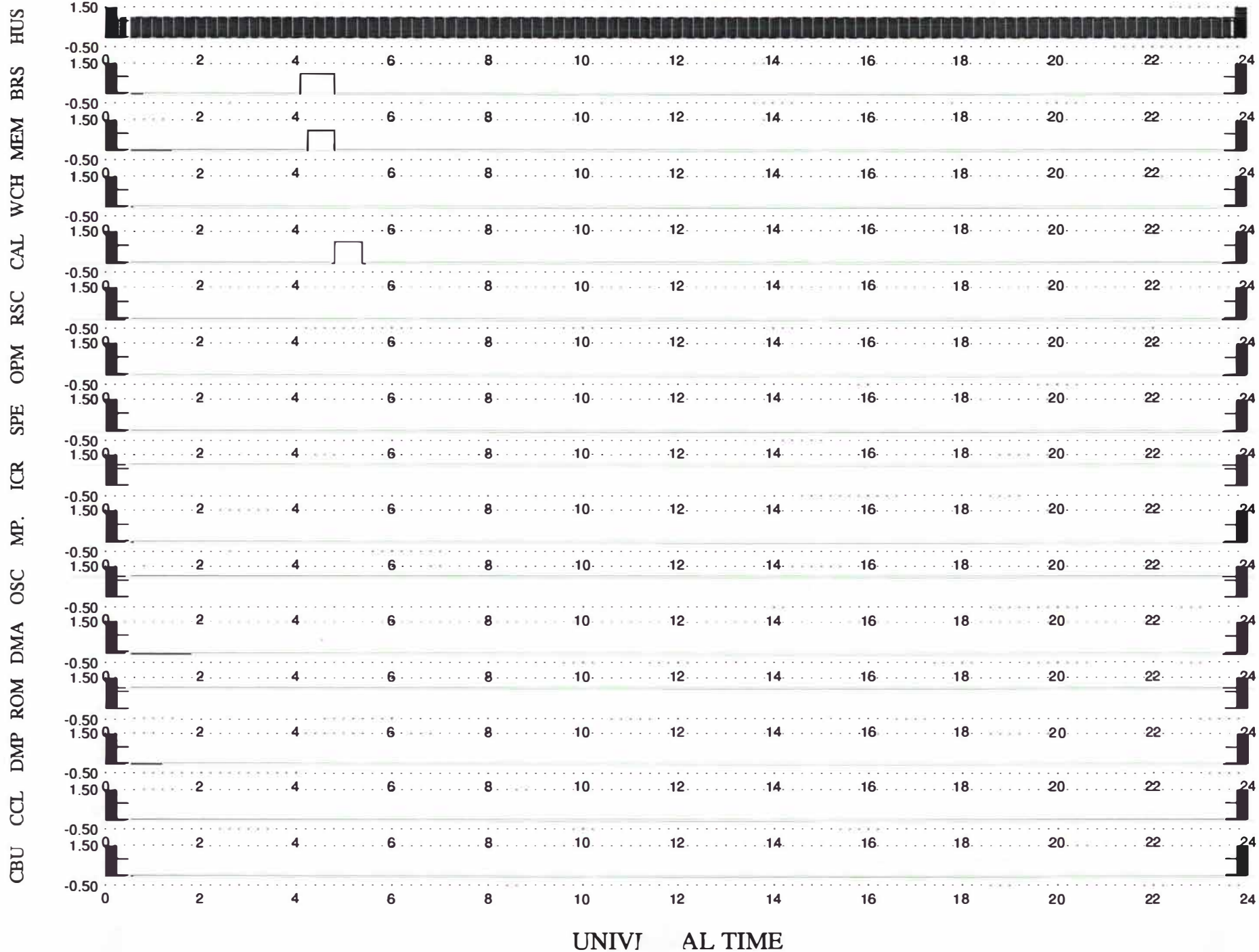
Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/22



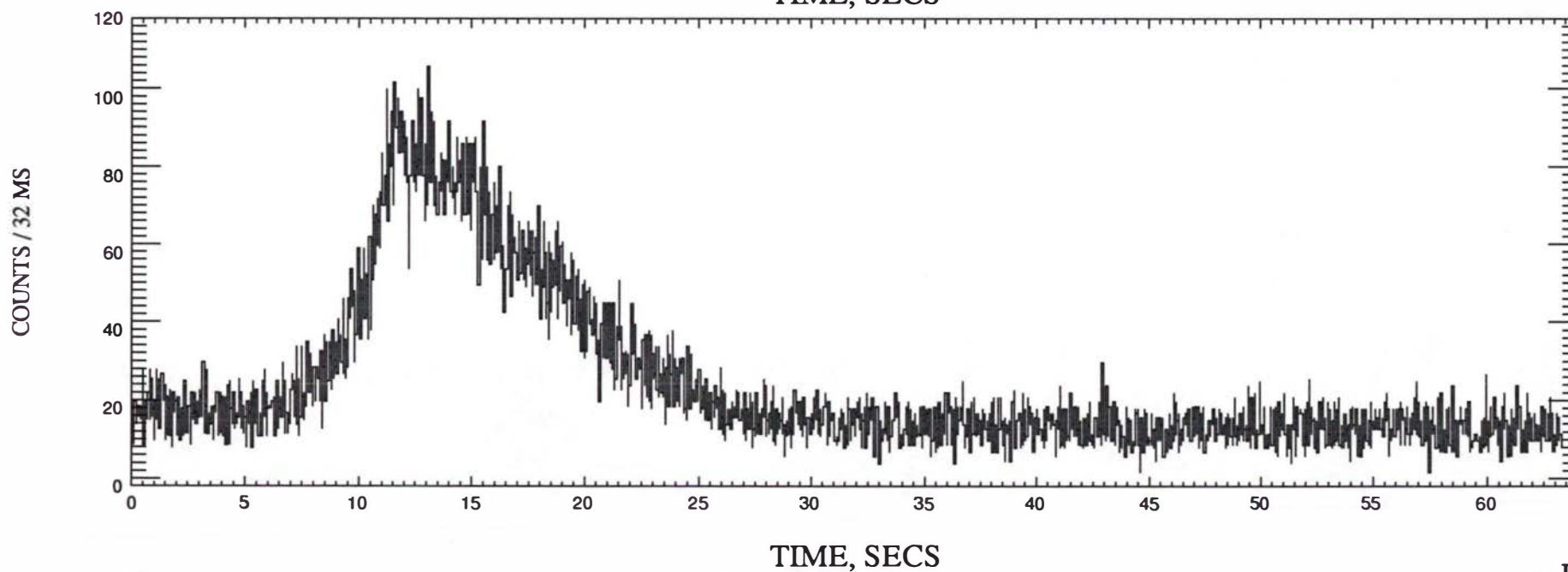
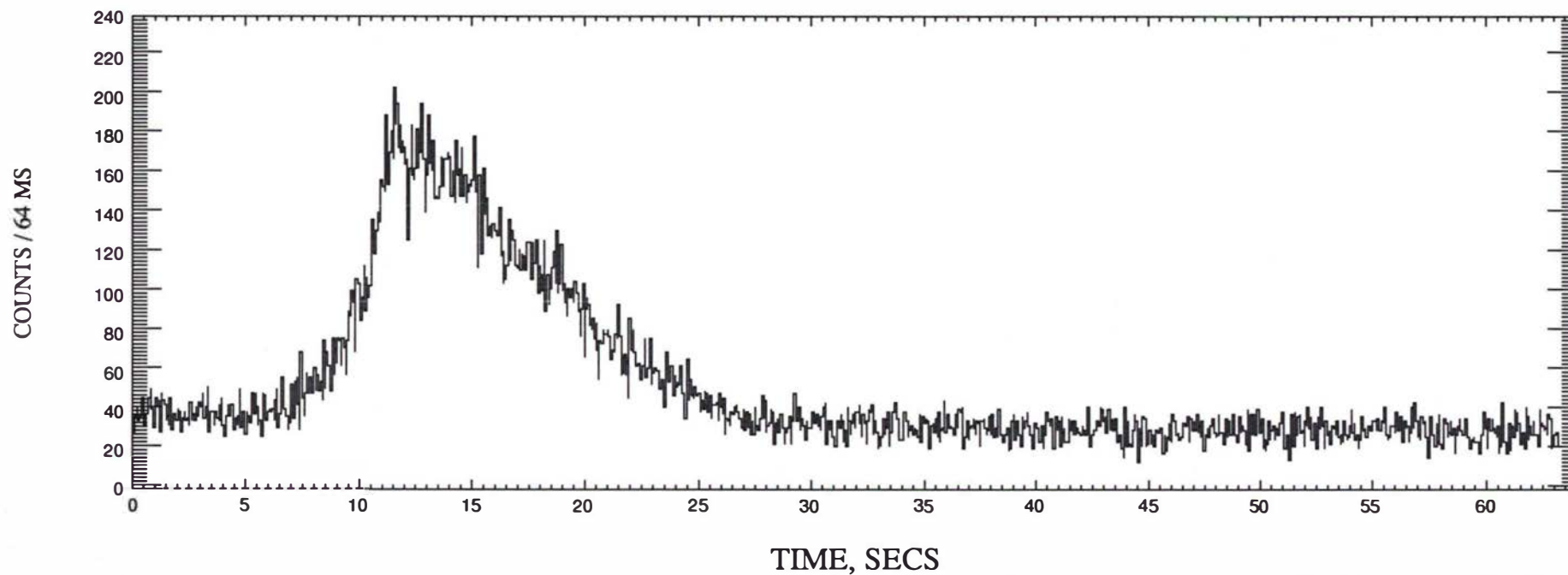
HUS MODES EDR day 234, year 1995 to day 234, year 1995
BURST NUMBER 11

1/25/96



HUS 2A TRIGGERED DATA EDR day 234, year 1995
Burst Counter 11 at UT= 4.105816853841 h=14780.941 s 04:06:20.941

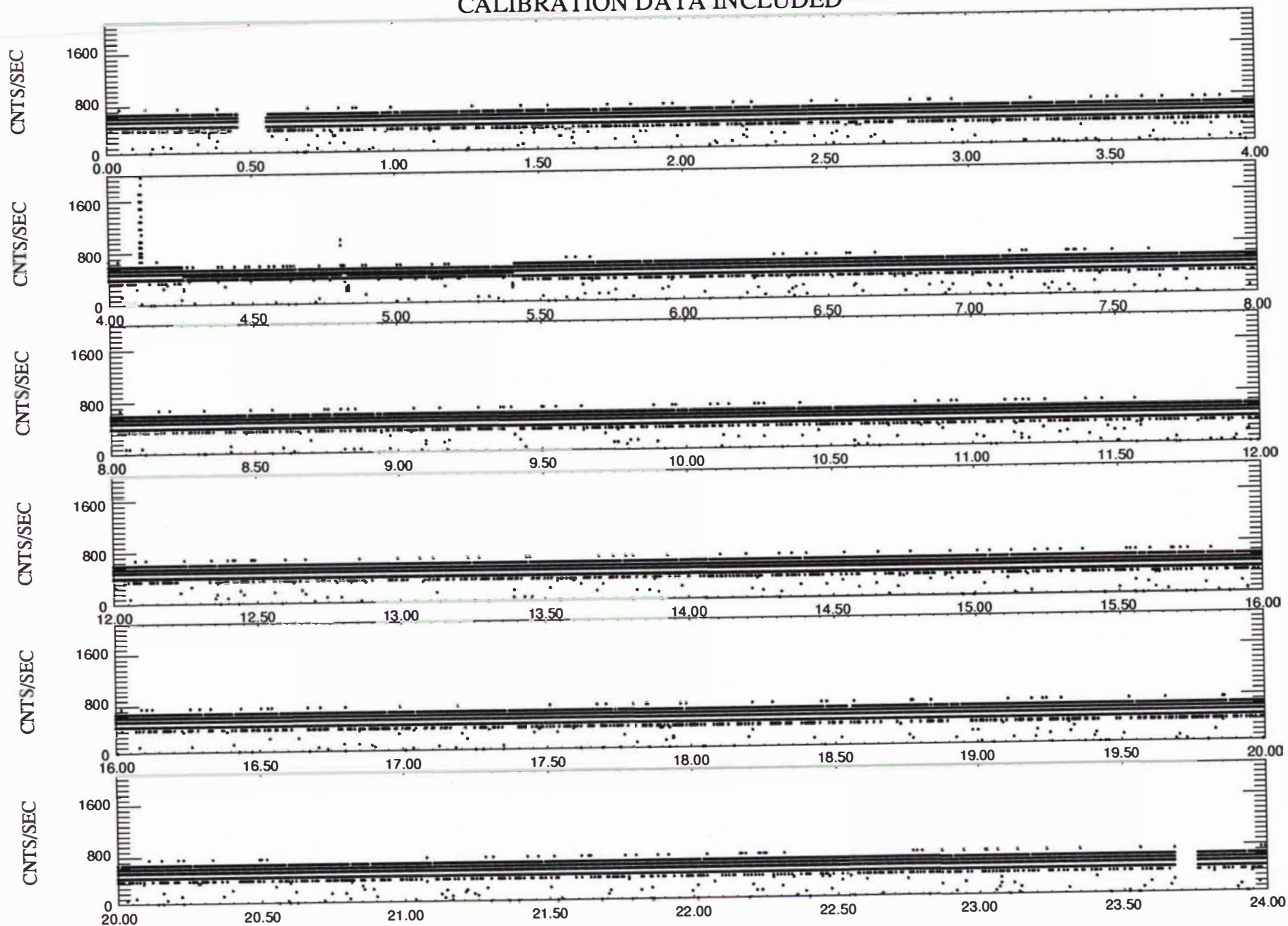
2/2/96



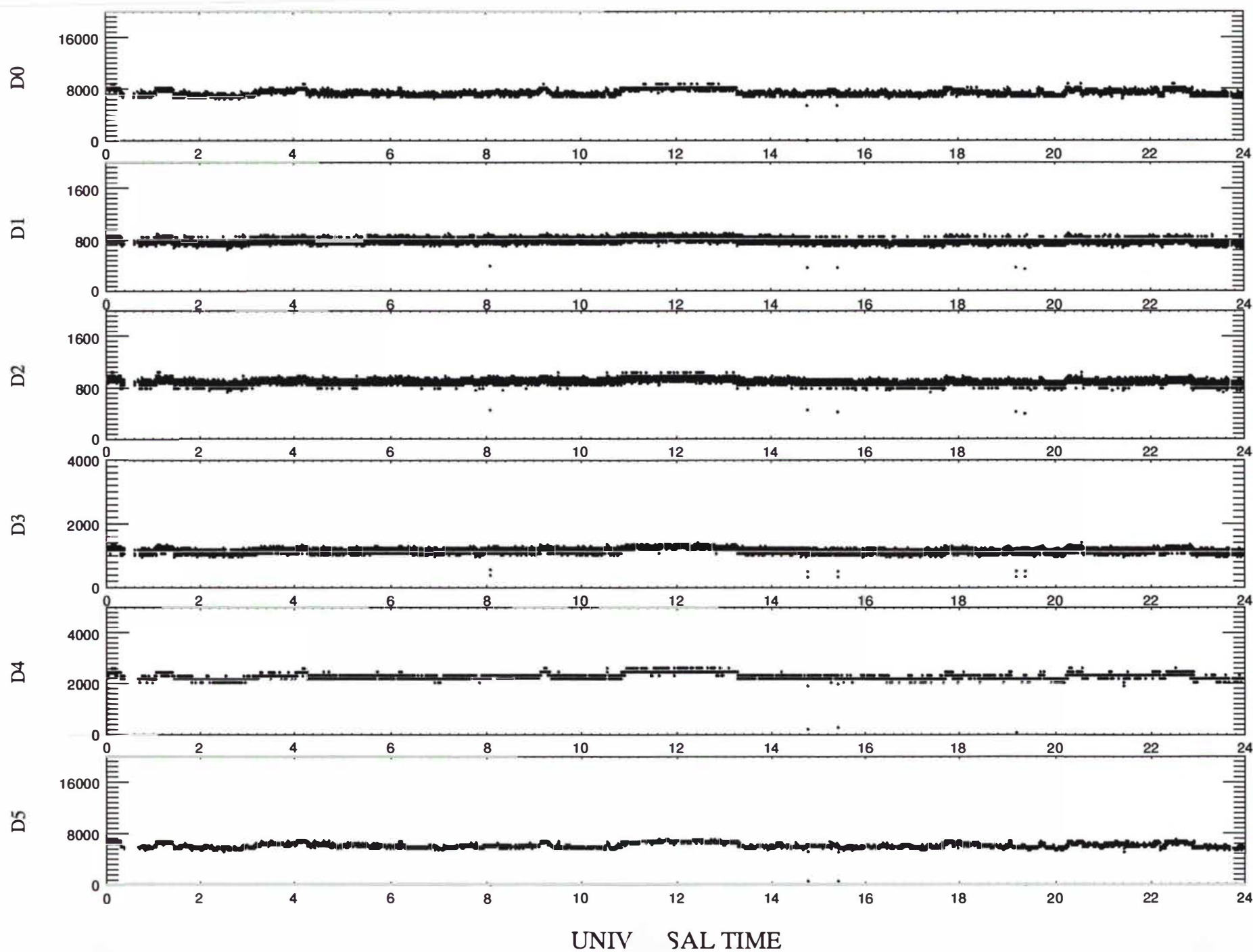
B# 1

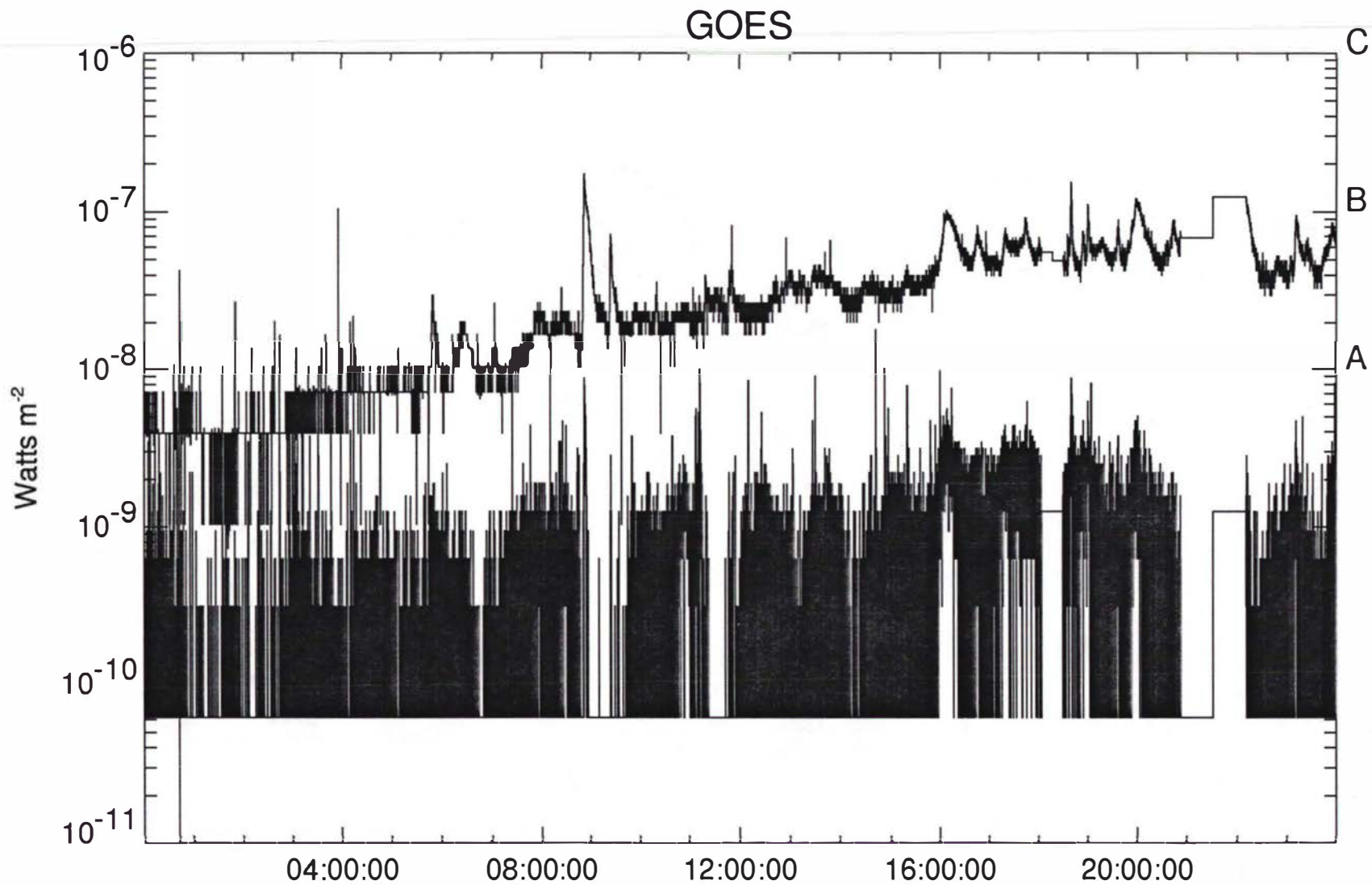
HUS 2A, MODE 1, NOT AVERAGED EDR day 234, year 1995 to day 234, year 1995
CALIBRATION DATA INCLUDED

1/25/96



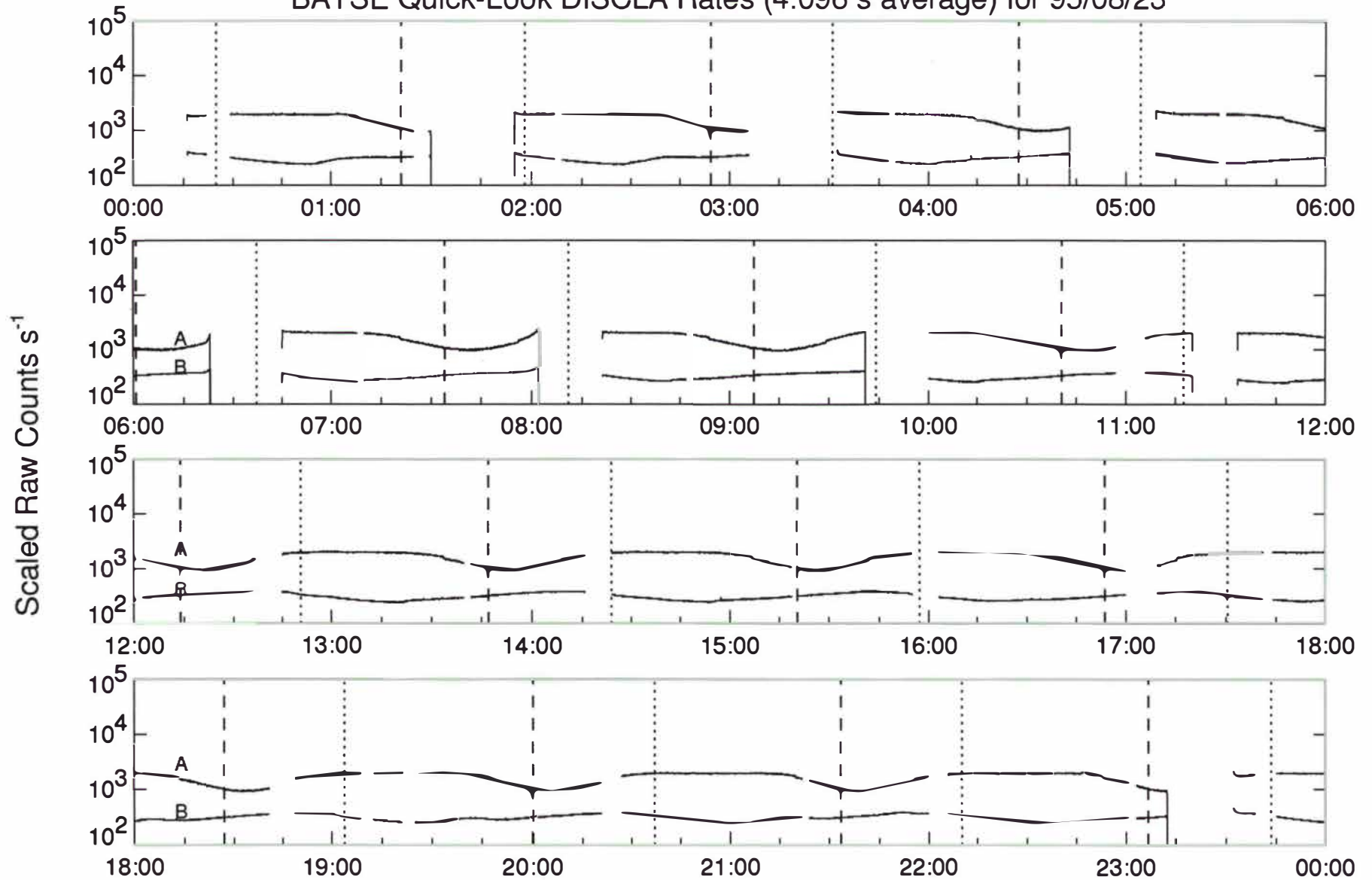
UNIVERSAL TIME





Data Start: 95/08/23, 0000:01 Plot created: 95/08/25, 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 95/08/23



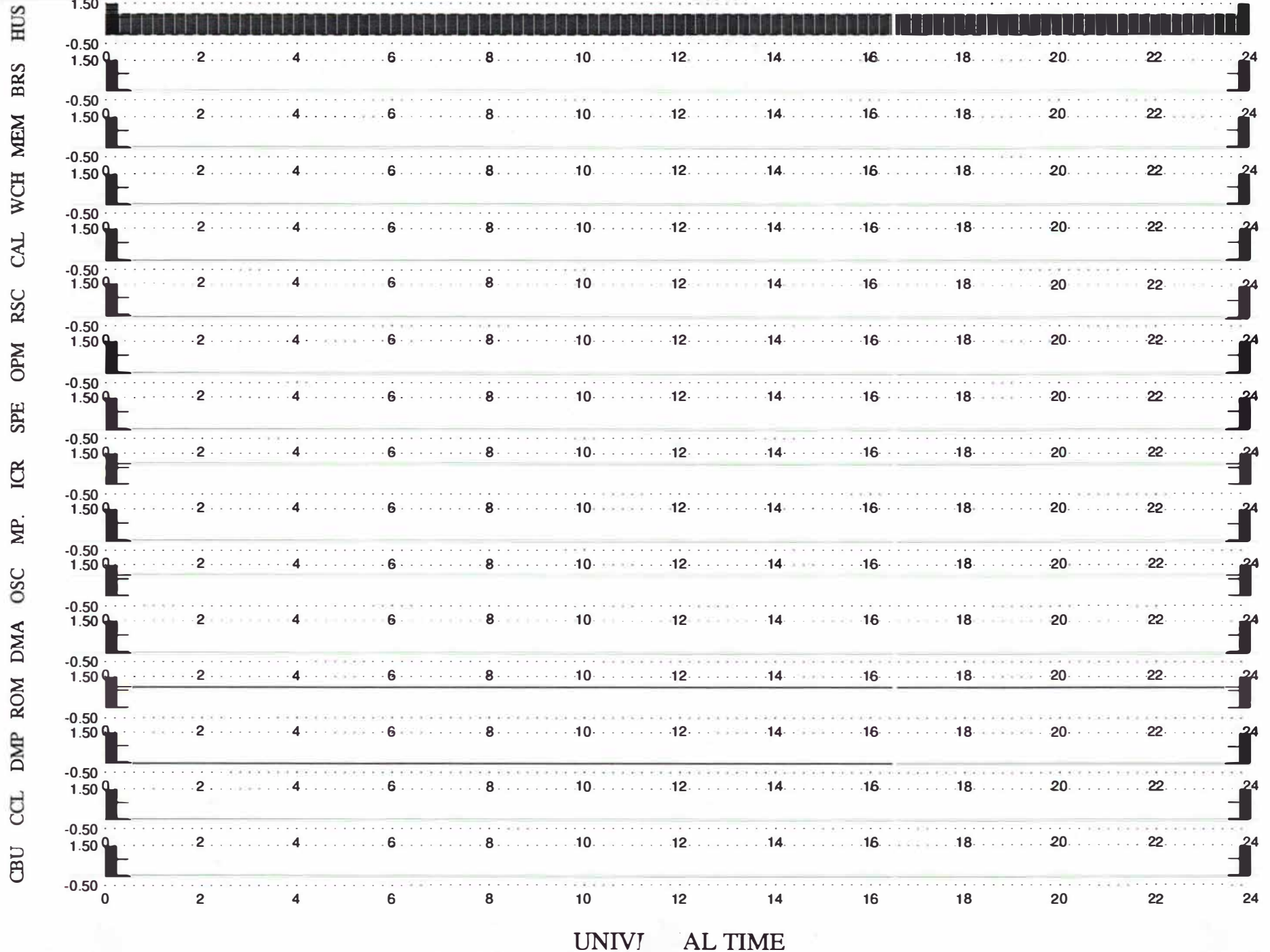
Current Time: 95/08/25, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

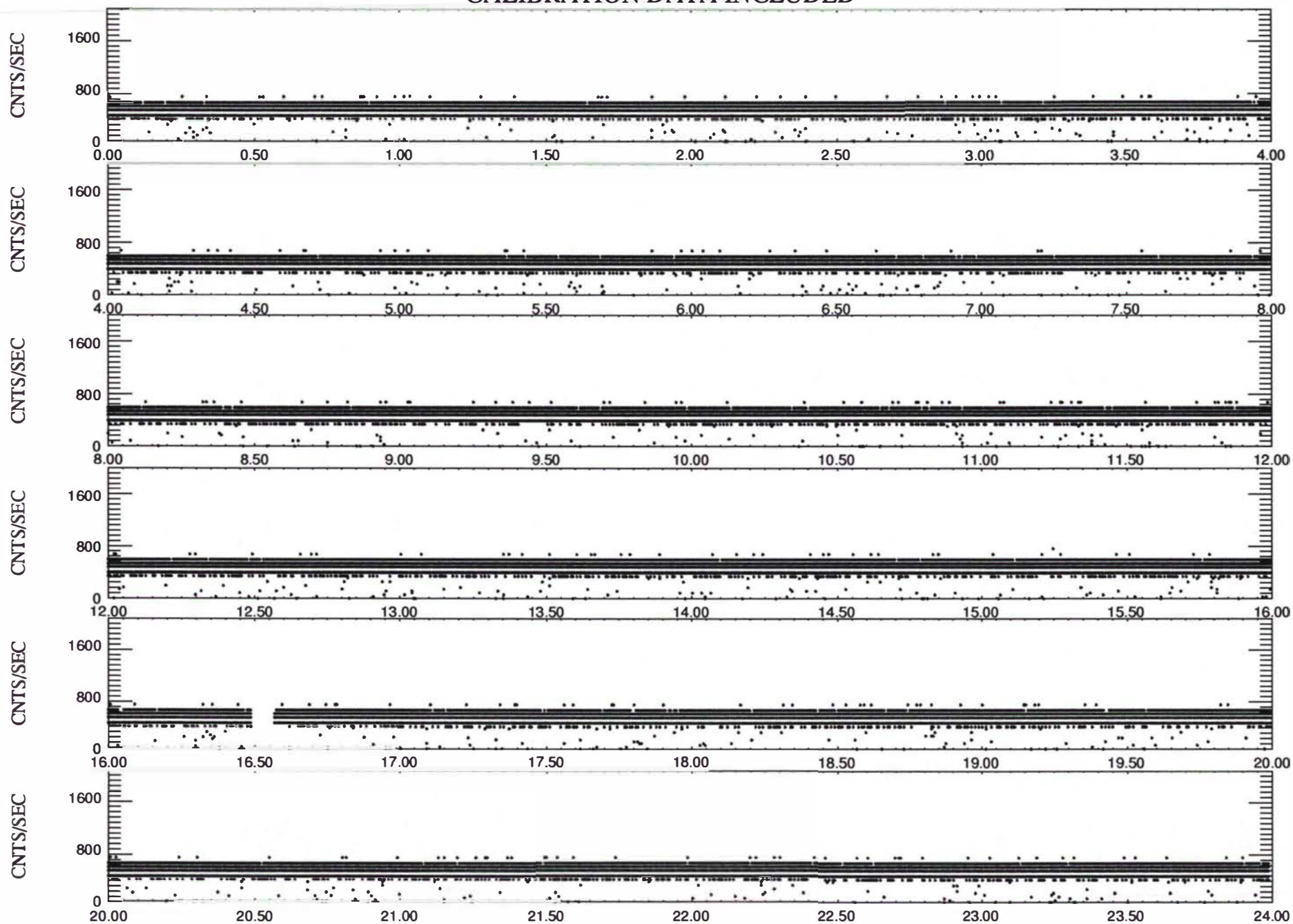
HUS MODES EDR day 235, year 1995 to day 235, year 1995
NO BURST (11)

1/25/96

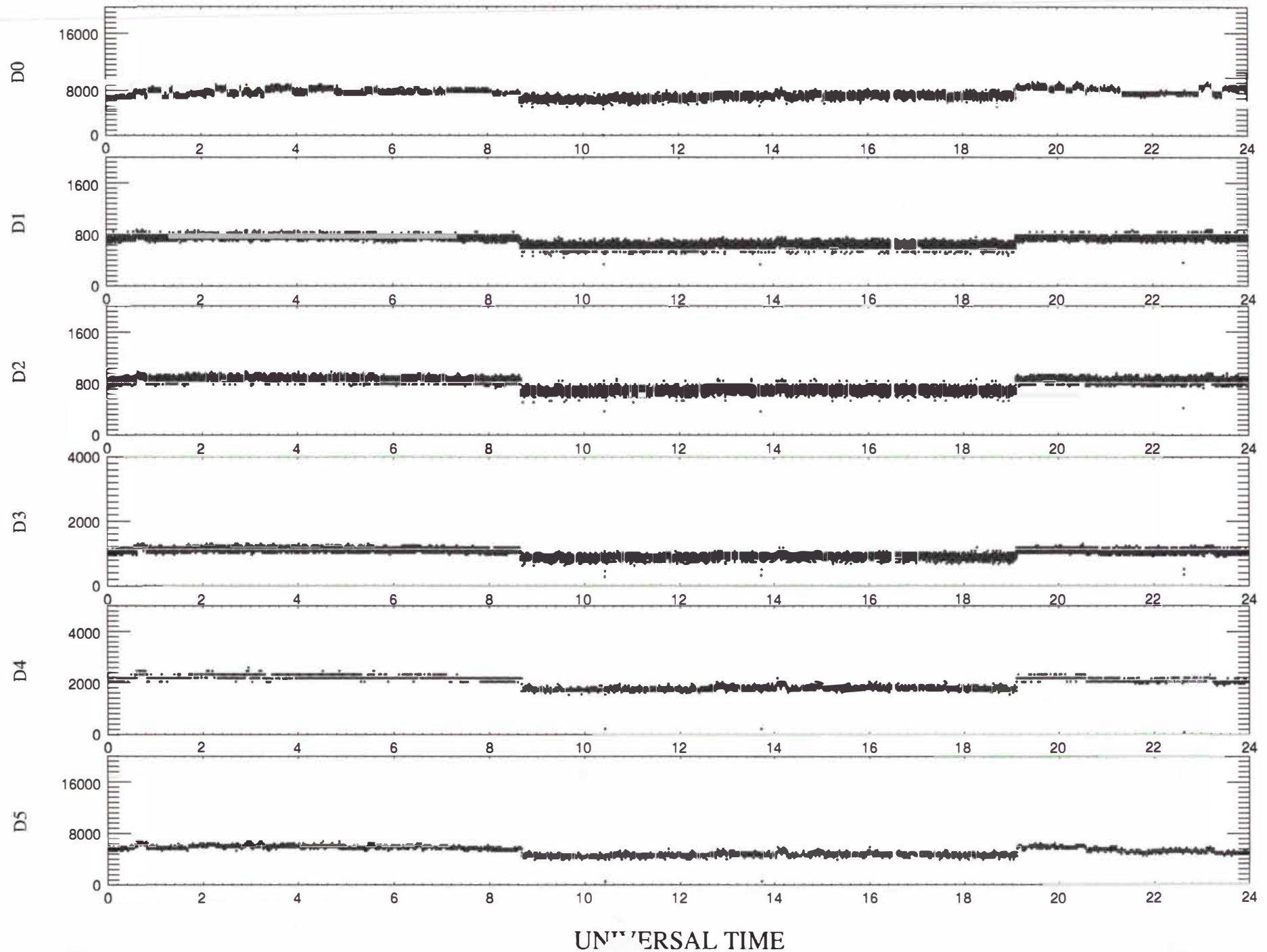


HUS 2A, MODE 1, NOT AVERAGED EDR day 235, year 1995 to day 235, year 1995
CALIBRATION DATA INCLUDED

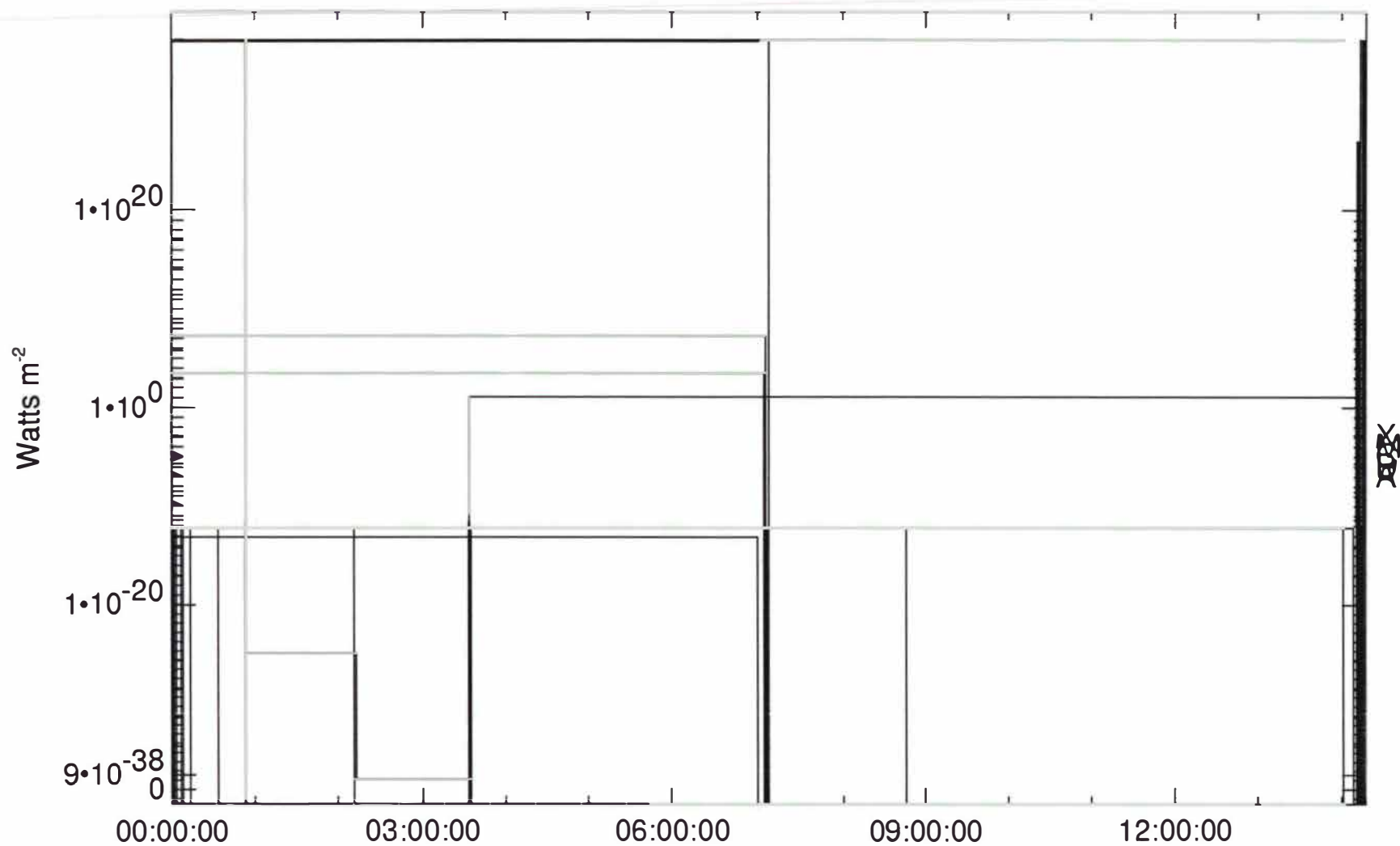
1/25/96



UNIVERSAL TIME



GOES



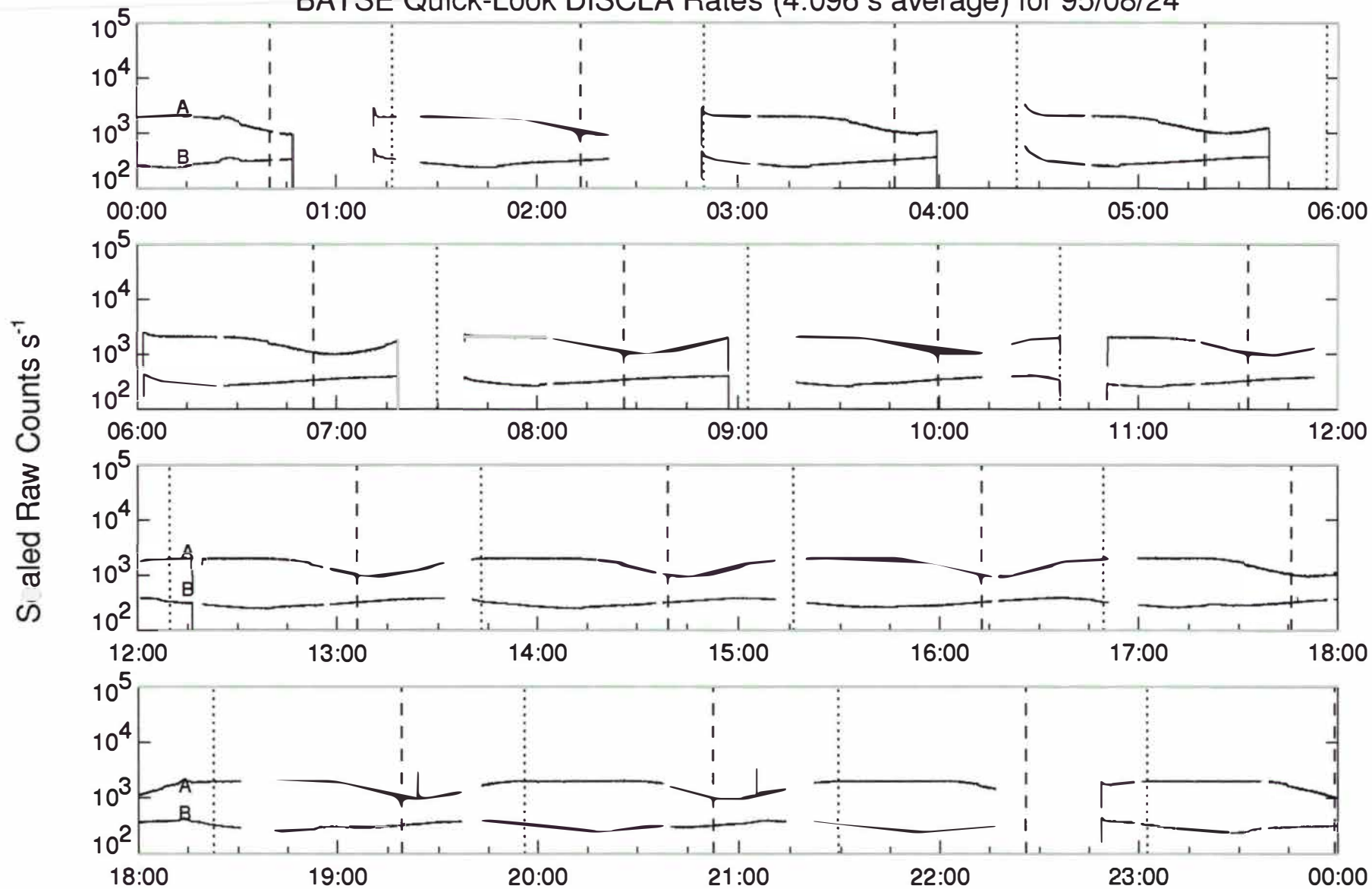
Data Start: 95/08/24, 2359:59

Plot created: 95/08/27, 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 95/08/24



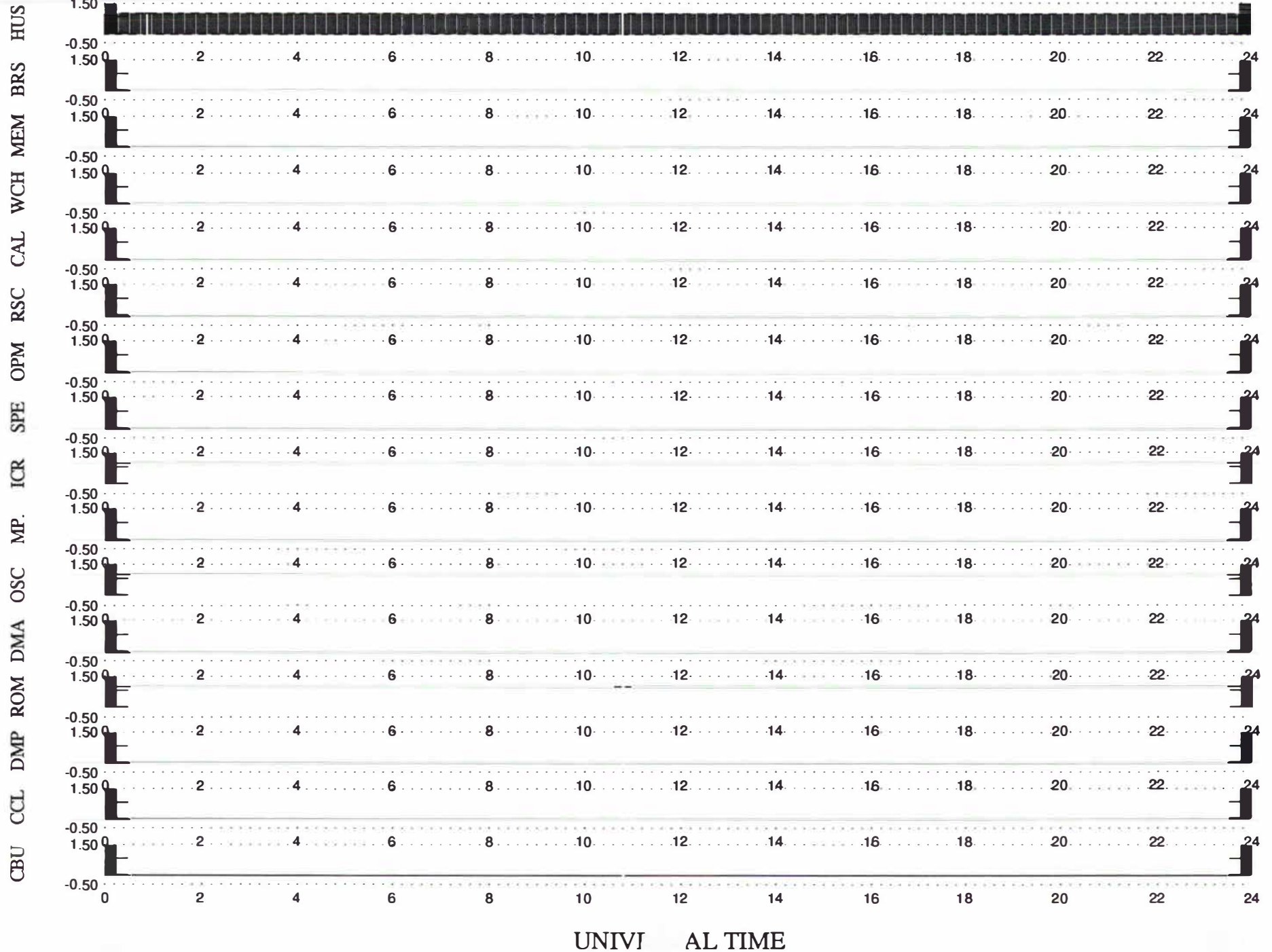
Current Time: 95/08/26, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

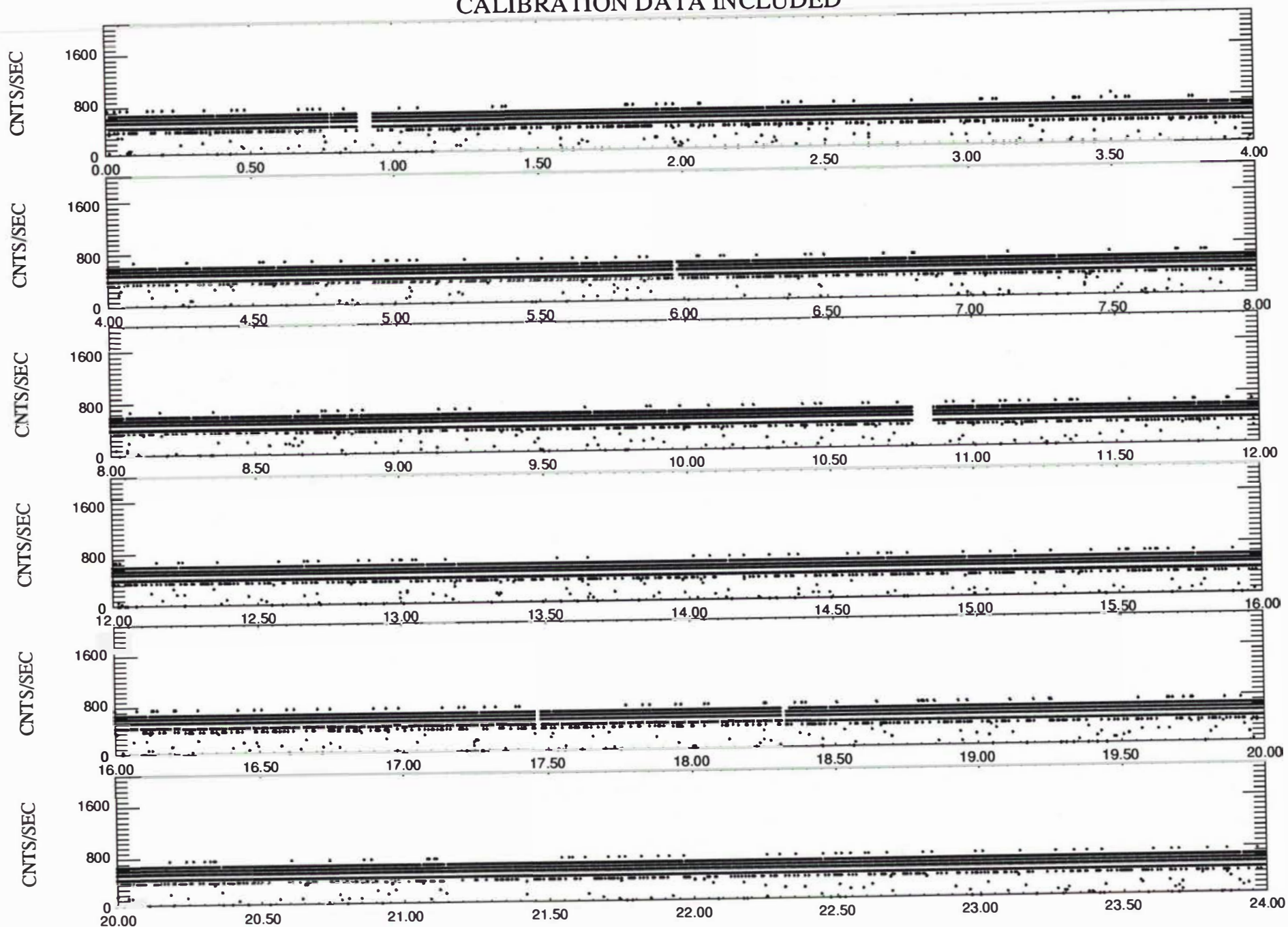
HUS MODES EDR day 236, year 1995 to day 236, year 1995
NO BURST (11)

1/25/96

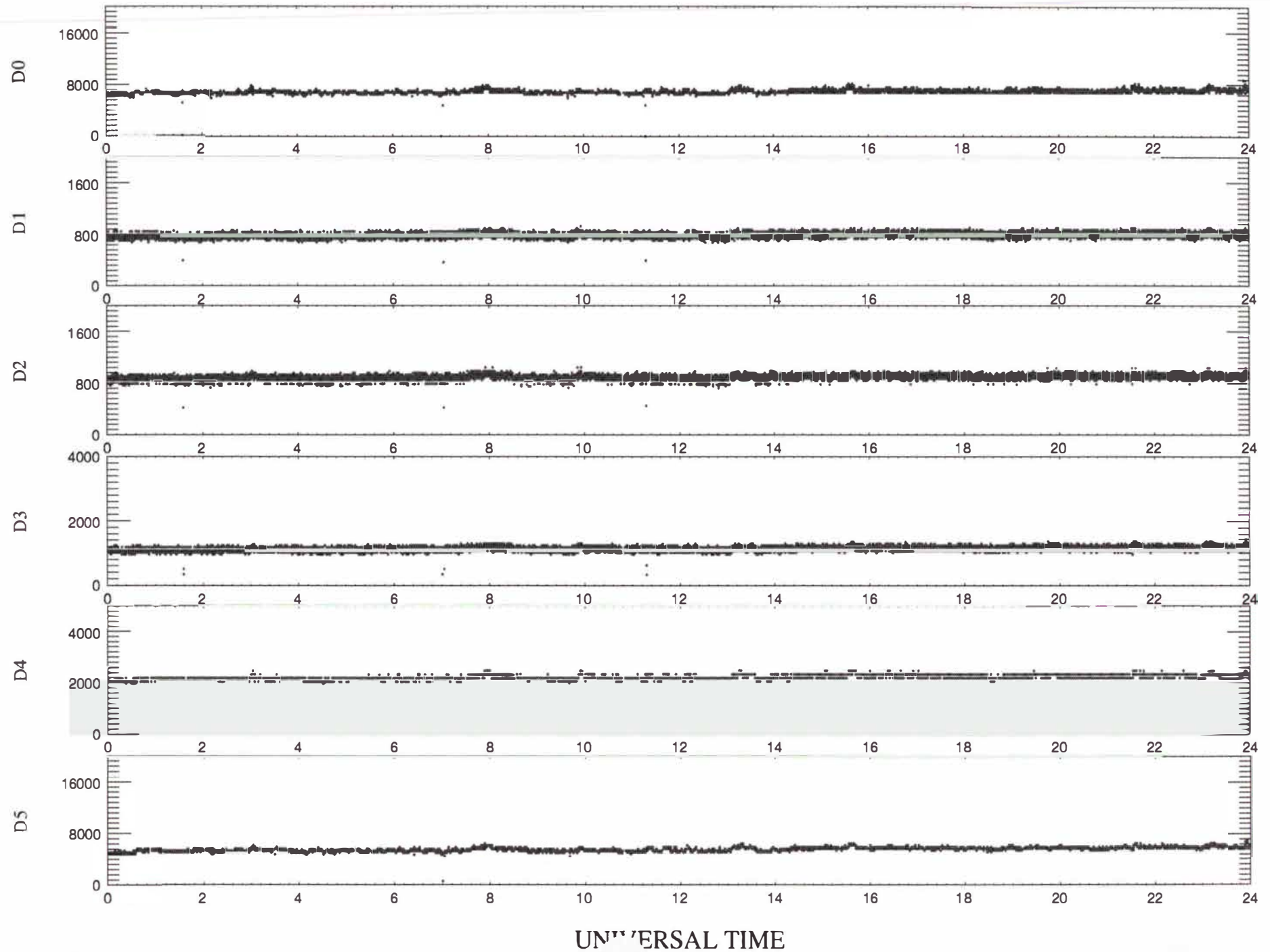


HUS 2A, MODE 1, NOT AVERAGED EDR day 236, year 1995 to day 236, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIV. TIME



From isac.ernet.in!kmarar@vigyan.iisc.ernet.in Tue Sep 26 20:16 PDT 1995
Date: Tue, 26 Sep 1995 11:02:03 GMT
From: kmarar@isac.ernet.in
To: vigyan!khurley@sunspot.ssl.berkeley.edu
Subject: Aug 22 event
Cc: vigyan!kmarar@isac.ernet.in

Dear Kevin

The August 22 and 25 events detected by Ulysses were not detected by us.
Have you done a triangulation of our May 12 event?
Can you send Ulysses spacecraft data (position at the time of May 12 event)
to us so that we can also try our triangulation routine? and compare notes with
you? Time of detection at Ulysses also needed.
Or else can you kindly send us for one or two events, the times of detection
at any two or three spacecrafts and the corresponding spacecraft positions and
yoursolutions such that we checkl our software results with yours?

Many thanks
Krishnan

DMSP13 narrow peak at
15864.2
15786.2 broader peak } soft

After 2nd peak, high energy emission to ~ 6 MeV
15900

No indication of 72990 event in DMSP

From khurley@sunspot Tue Sep 26 08:37 PDT 1995
Date: Tue, 26 Sep 1995 08:24:27 -0700
From: khurley@sunspot (Kevin Hurley)
To: butterworth@lheavx.gsfc.nasa.gov, khurley@sunspot
Subject: Konus triggers in August

Dear Paul,

Here's the completed list. The data gap on the 9th is likely to be filled when we get our final data CD in a month or so.

Kevin

```
> -----
> Konus Triggers
> -----
>
> KONUS#      Date      Time      Event      T#      B#      U#
> detector
>
> 136      8/02      22:25:43.788      particle (near Earth)      n/a      n/a      n/a
> 137      02      23:00:16.156      particle (near Earth)      n/a      n/a      n/a
> 138 N 04      01:58:55.704      strong,multi-peak,3sGRB      -      3734      TRIGGER
> 139 N 04      09:02:41.958      weak,multi-peak,120sGRB      -      -      RI
> 140 N 04      12:36:17.251      weak,single-peak,0.5sGRB      -      3735      NO
> 141 N 05      00:04:43.498      weak,multi-peak,25sGRB      -      -      NO
> 142 S 05      03:44:14.144      strong,single-peak,0.1sGRB      326      3736      RI
> 143 S 09      23:52:25.672      strong,double-peak,4sGRB      329      3750      DATA GAP
> 144 N 18      01:24:25.640      v.strong,single-peak,10sGRB      330      3765      TRIGGER
>      45      20      00:45:06.928      particle (near Earth)      n/a      n/a      n/a
>      46      20      14:24:17.743      particle (near Earth)      n/a      n/a      n/a
> 147 S 22      03:49:10.530      v.strong,multi-peak,30sGRB      336      3767      TRIGGER
> 148 N 25      04:24:23.399      moderate,multi-peak,120sGRB      -      -      RI
>
```

From BUTTERWORTH@lheavx.gsfc.nasa.gov Tue Aug 29 10:40 PDT 1995
From: BUTTERWORTH@lheavx.gsfc.nasa.gov
Date: Tue, 29 Aug 1995 13:36:56 -0400 (EDT)
To: khurley@sunspot.ssl.berkeley.edu
CC: BUTTERWORTH@lheavx.gsfc.nasa.gov, CLINE@lheavx.gsfc.nasa.gov
Subject: RE: GRB950825 - Konus didn't see it

Kevin,

Konus didn't see anything. There was no trigger and nothing is visible in the 3-second 'background' values.

Paul.

From: LHEAVX::BUTTERWORTH 29-AUG-1995 12:18:05.56
To: SMTP%"khurley@sunspot.ssl.berkeley.edu"
CC: TOM, BUTTERWORTH
Subj: RE: GRB950825

Kevin,

I'll check Konus now and will reply within the hour. BACODINE hasn't reported a BATSE trigger since the 22nd (which is a record for the six months I've been monitoring the system).

Paul.

From: SMTP%"khurley@sunspot.ssl.berkeley.edu" 29-AUG-1995 12:02:09.40
To: BUTTERWORTH
CC:
Subj: GRB950825

Date: Tue, 29 Aug 1995 07:49:51 -0700
From: khurley@sunspot.ssl.berkeley.edu (Kevin Hurley)
Message-Id: <9508291449.AA03074@charybdis.>
To: teegarden@lheavx.gsfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: GRB950825
Cc: cline@lheavx.gsfc.nasa.gov, butterworth@lheavx.gsfc.nasa.gov,
jterrell@lanl.gov, kmarar@isac.ernet.in
X-Sun-Charset: US-ASCII

Ulysses triggered on a very short, weak burst around 20:16 UT (at Ulysses) August 25. There is no report of a BATSE burst yet. Did anyone else detect this one?

Date: Aug 30 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

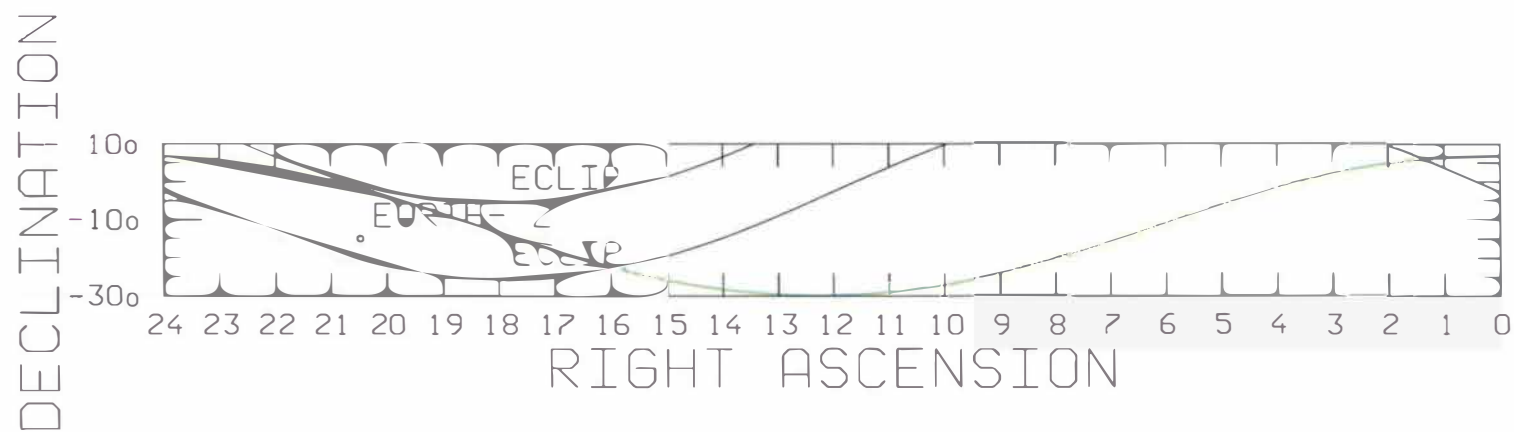
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

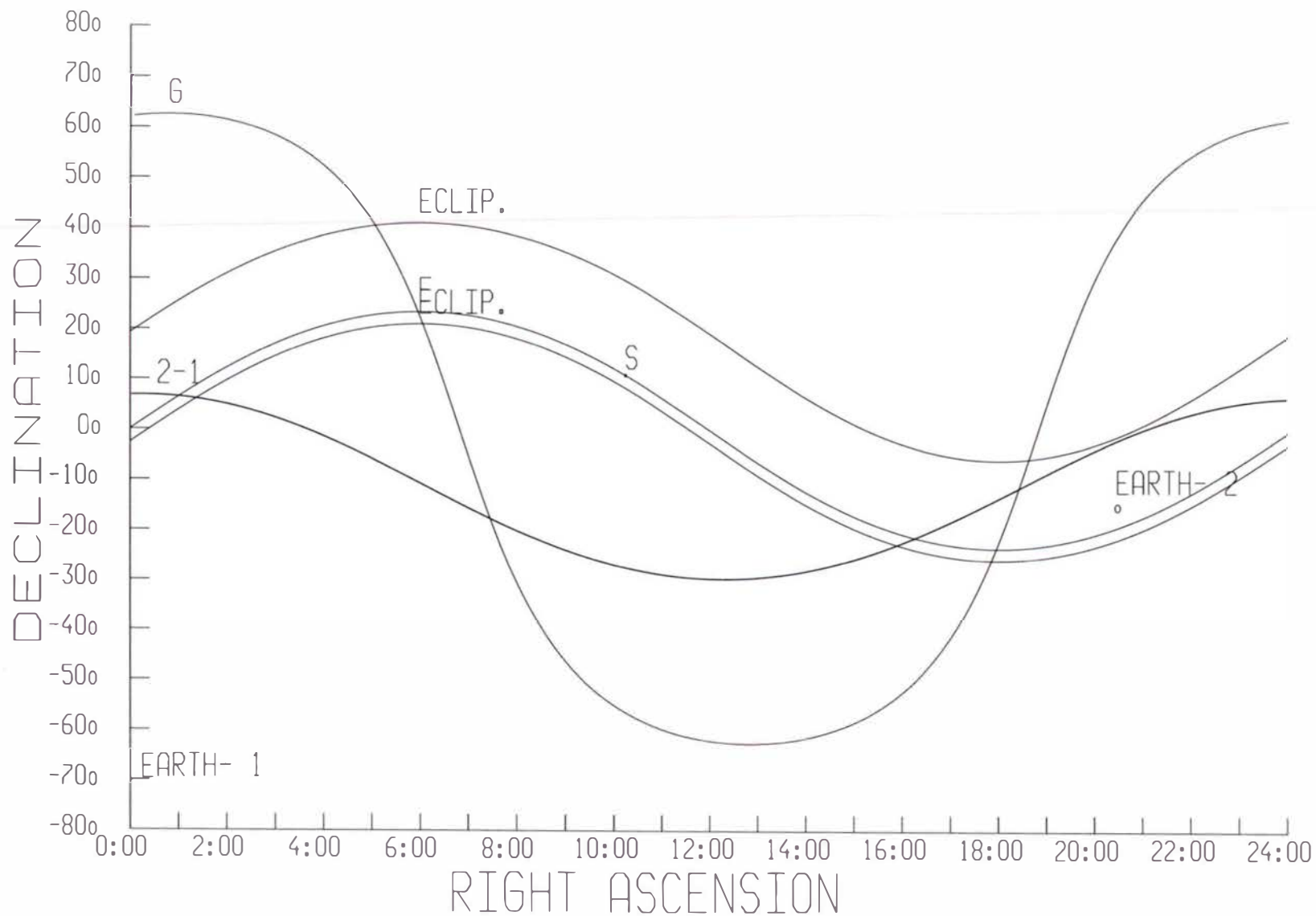
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

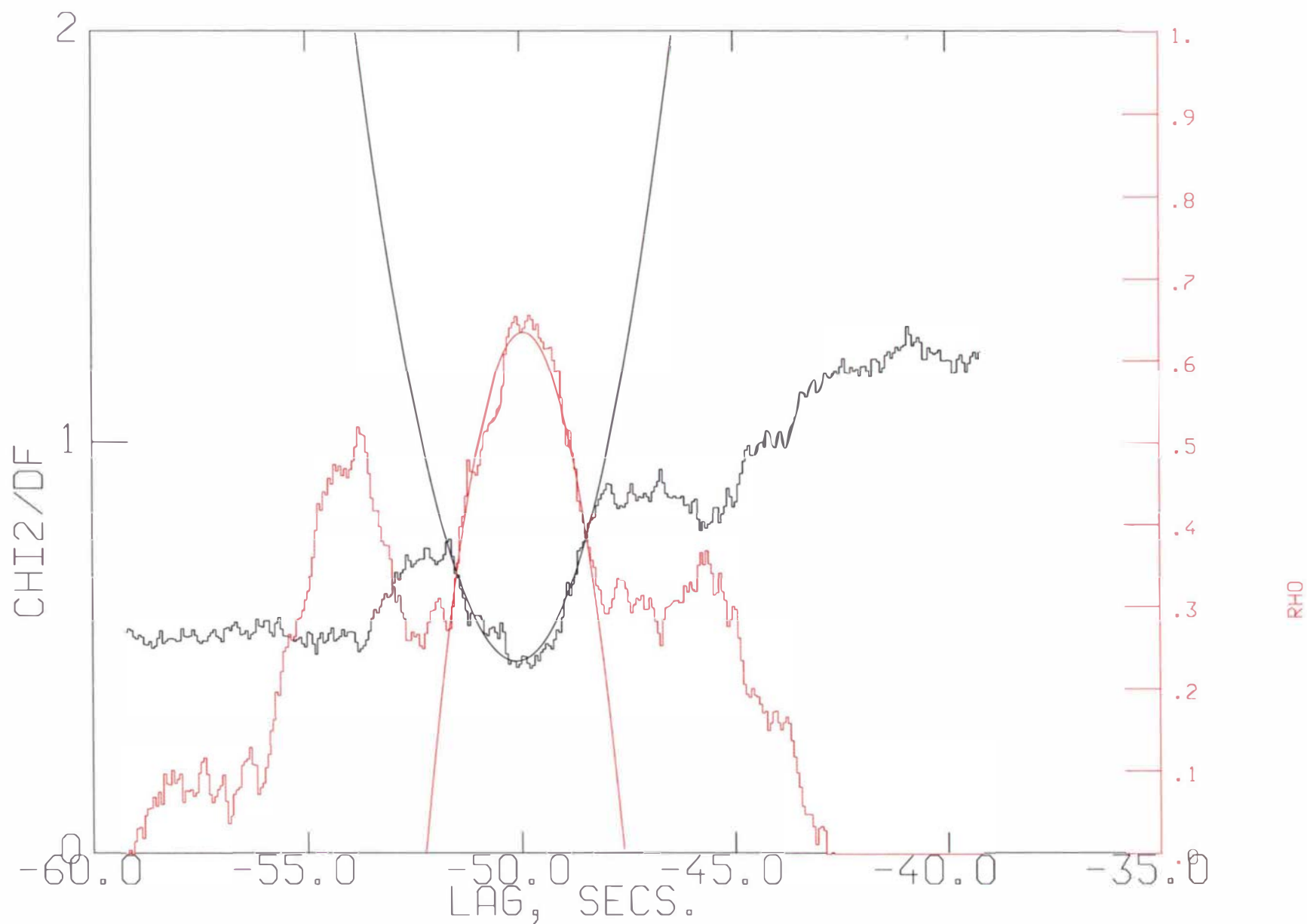


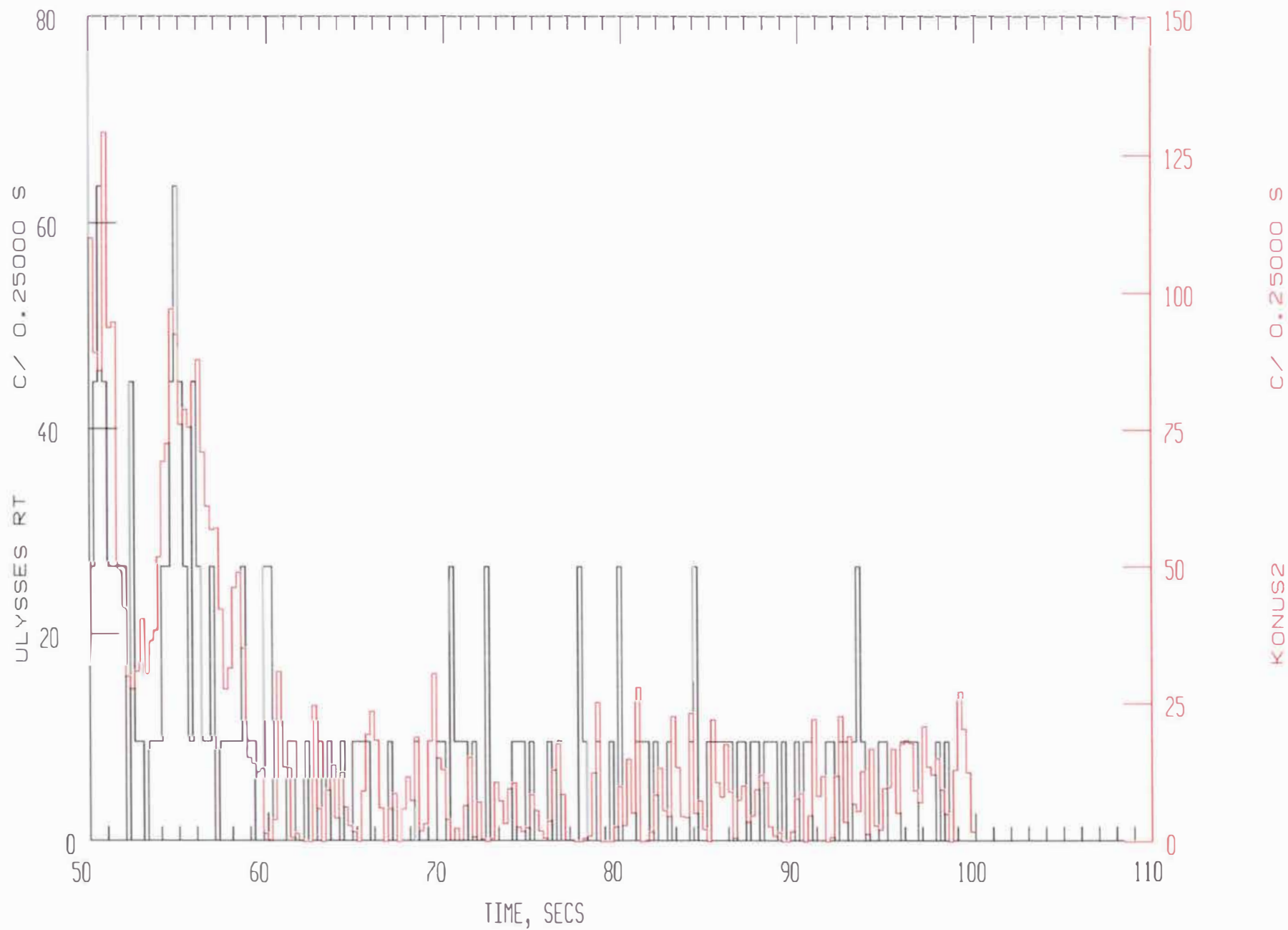
EVENT OF AUG 25, 1995 4:27

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







KONUS 19950825 16080

ULYSSES RT

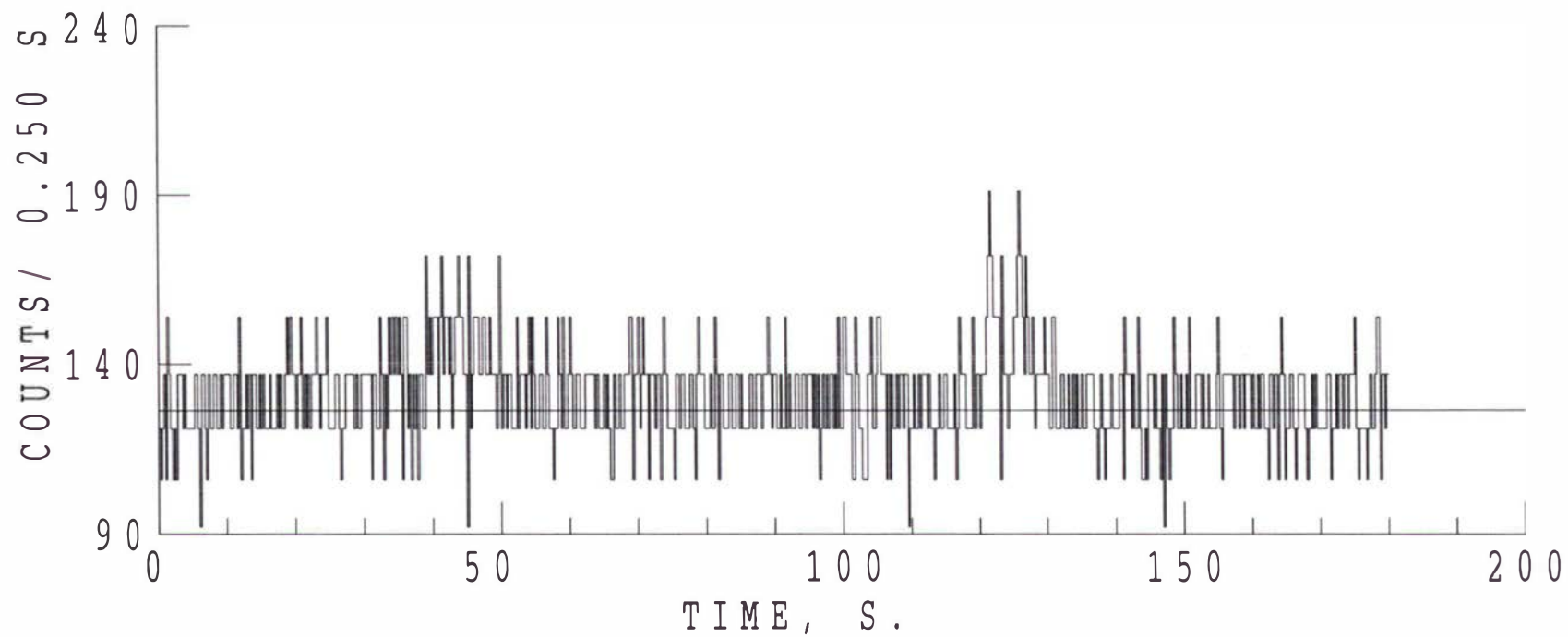
27 / 08 / 11

25 / 08 / 95 15984.022 s

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

||

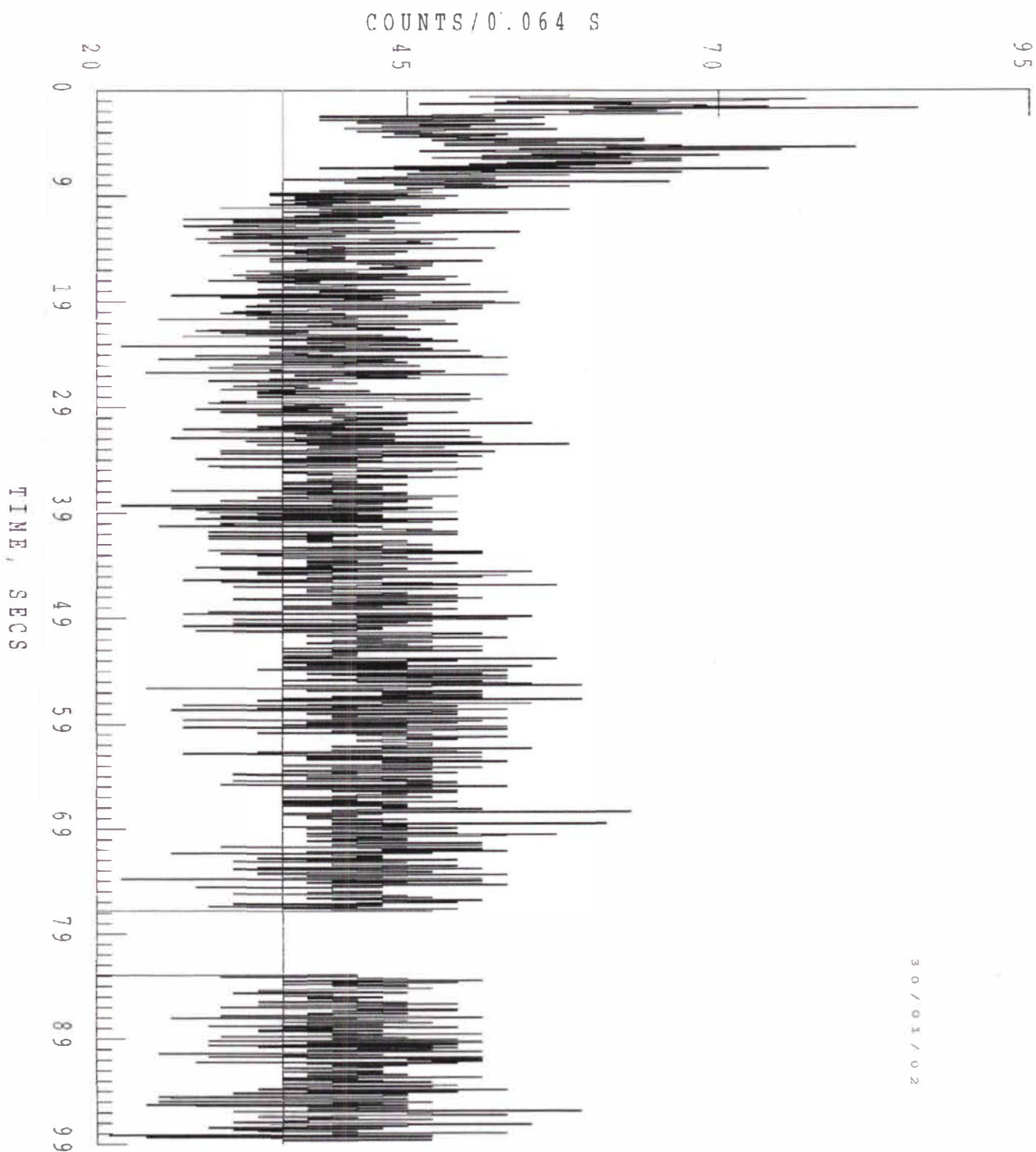


KONUS2

25/08/95

15863.399

50 - 200 keV



KONUS2 19950825 15863

ULYSSES RT

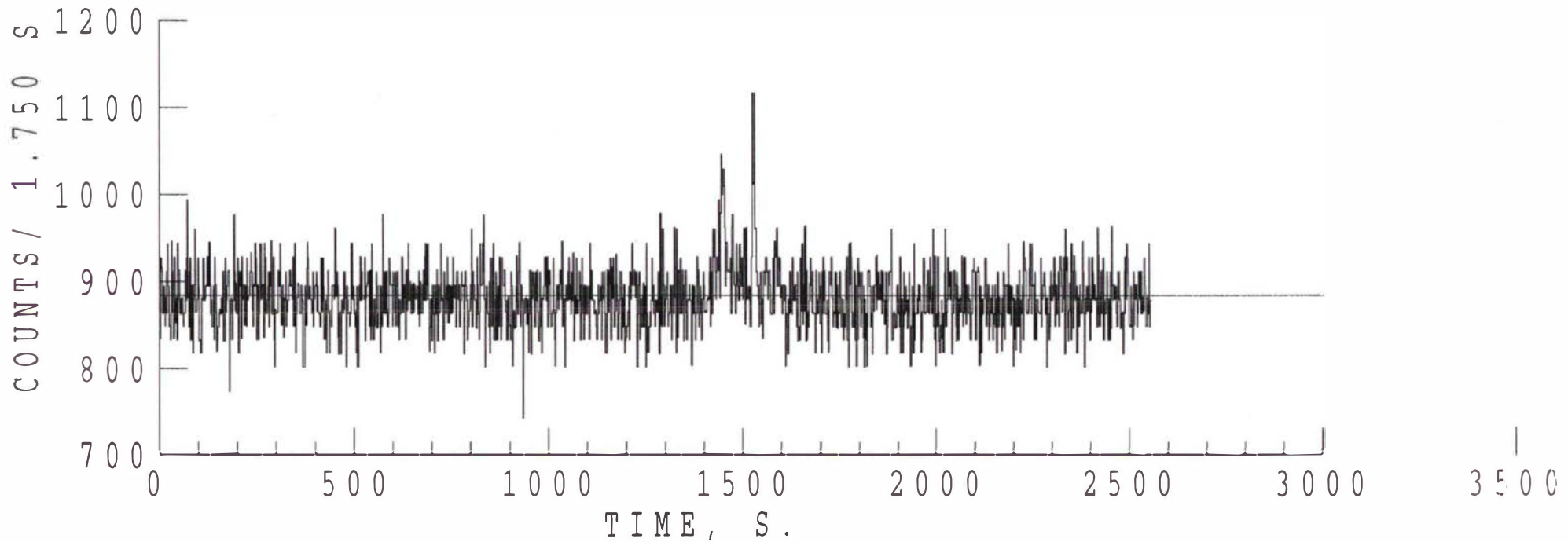
30/01/02

25/08/95 14580.245 s

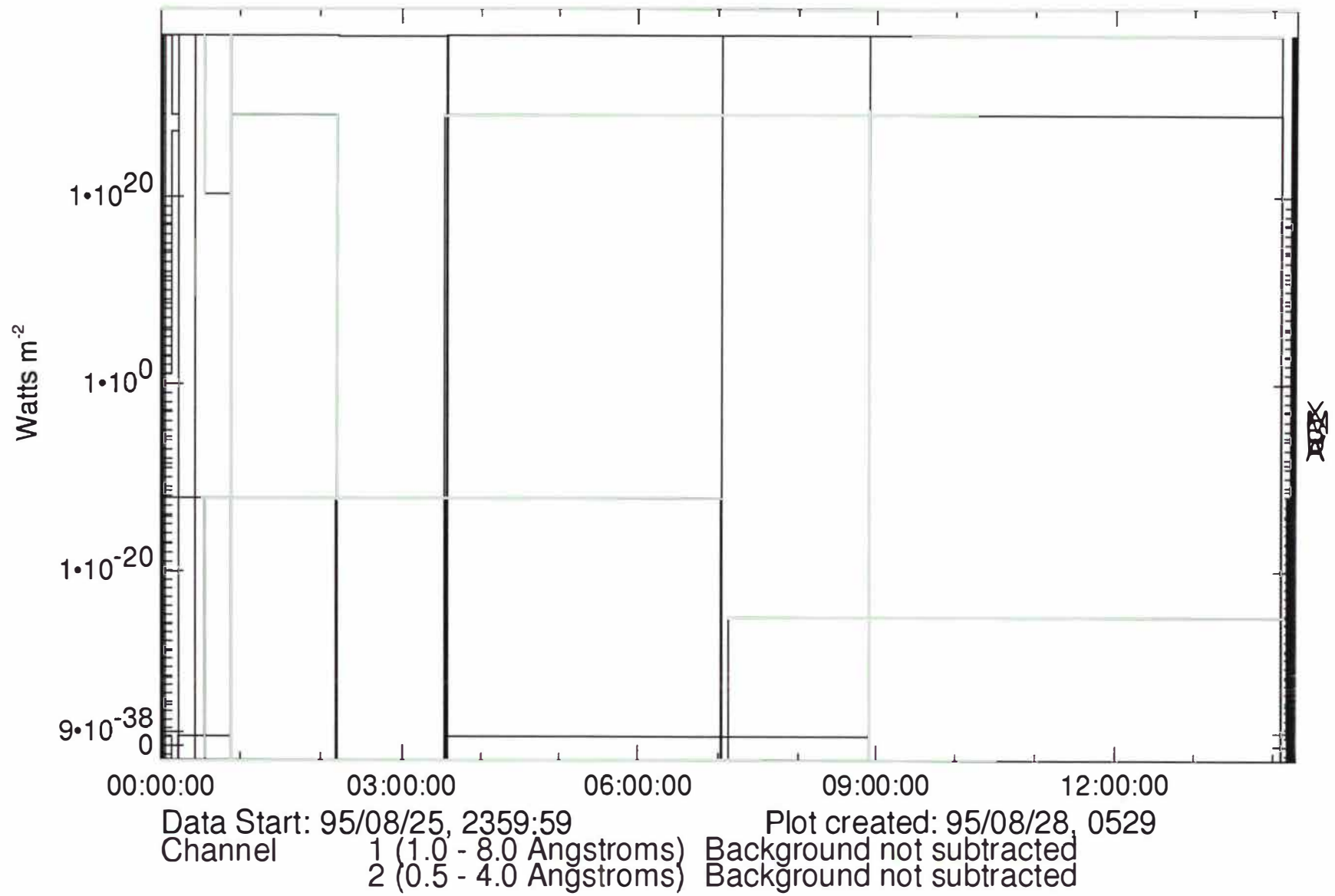
0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

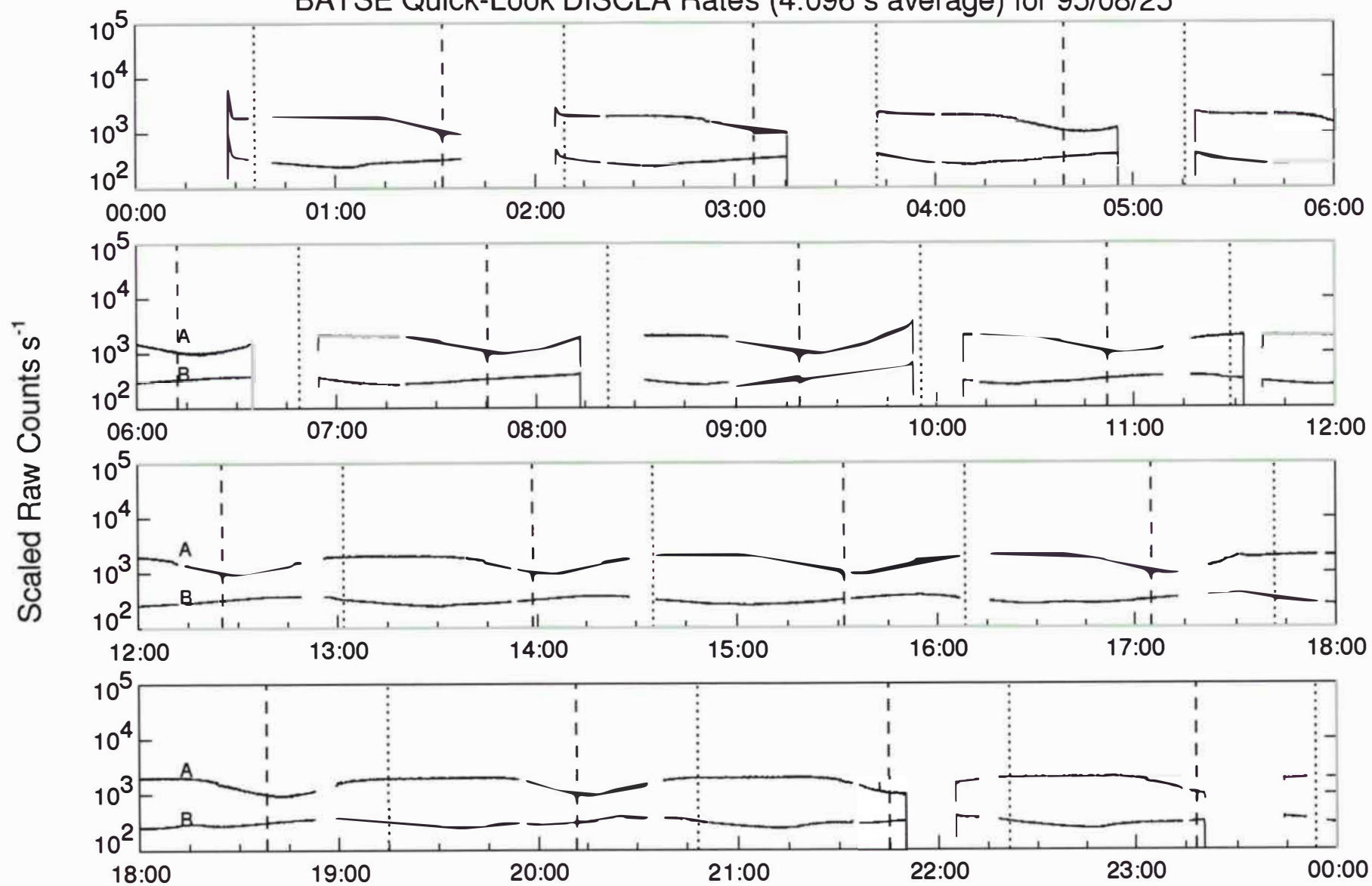
N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



GOES



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/25



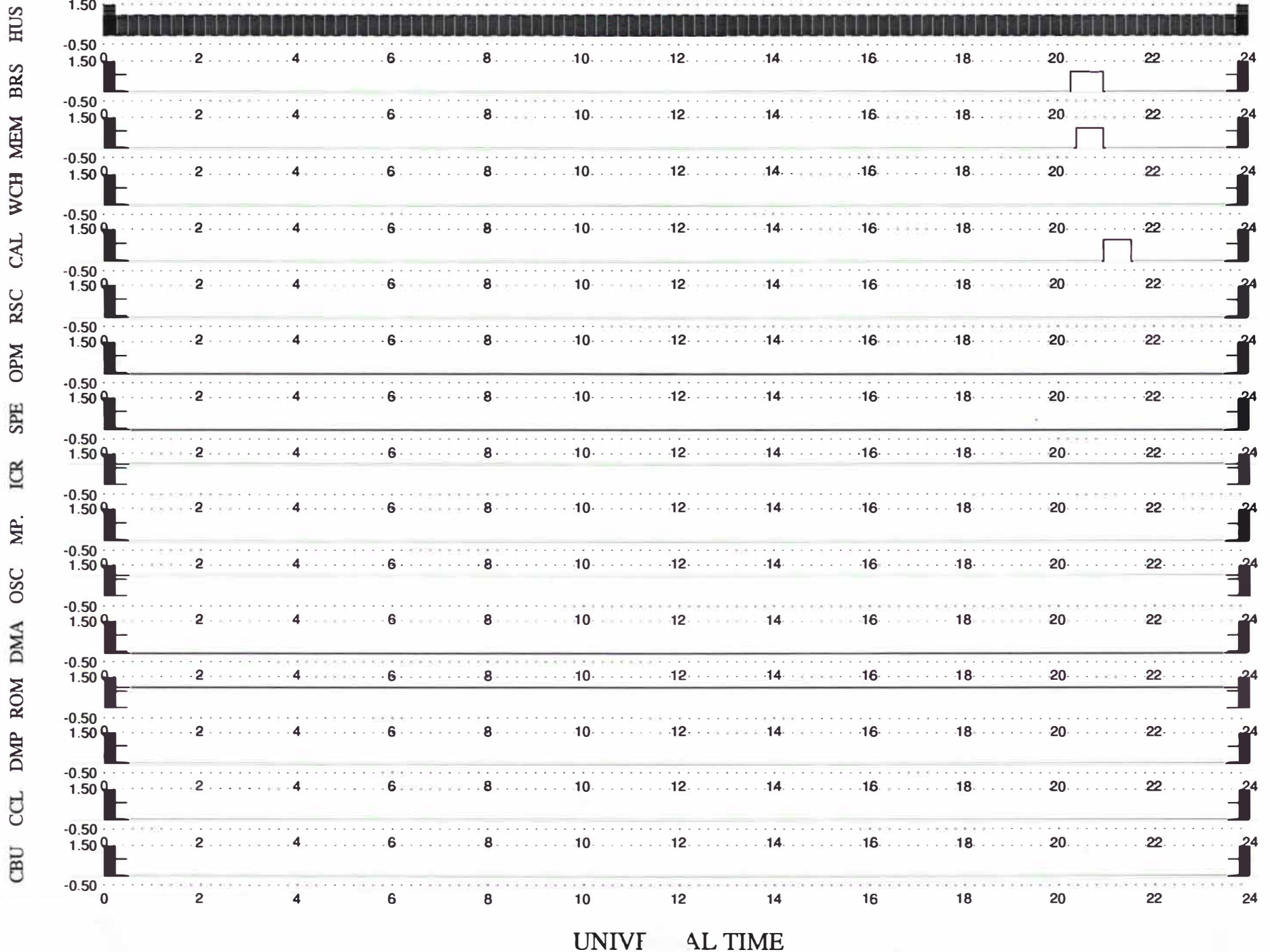
Current Time: 95/09/06, 1324 EDT
A: Channel 0 Most Sunward LAD
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

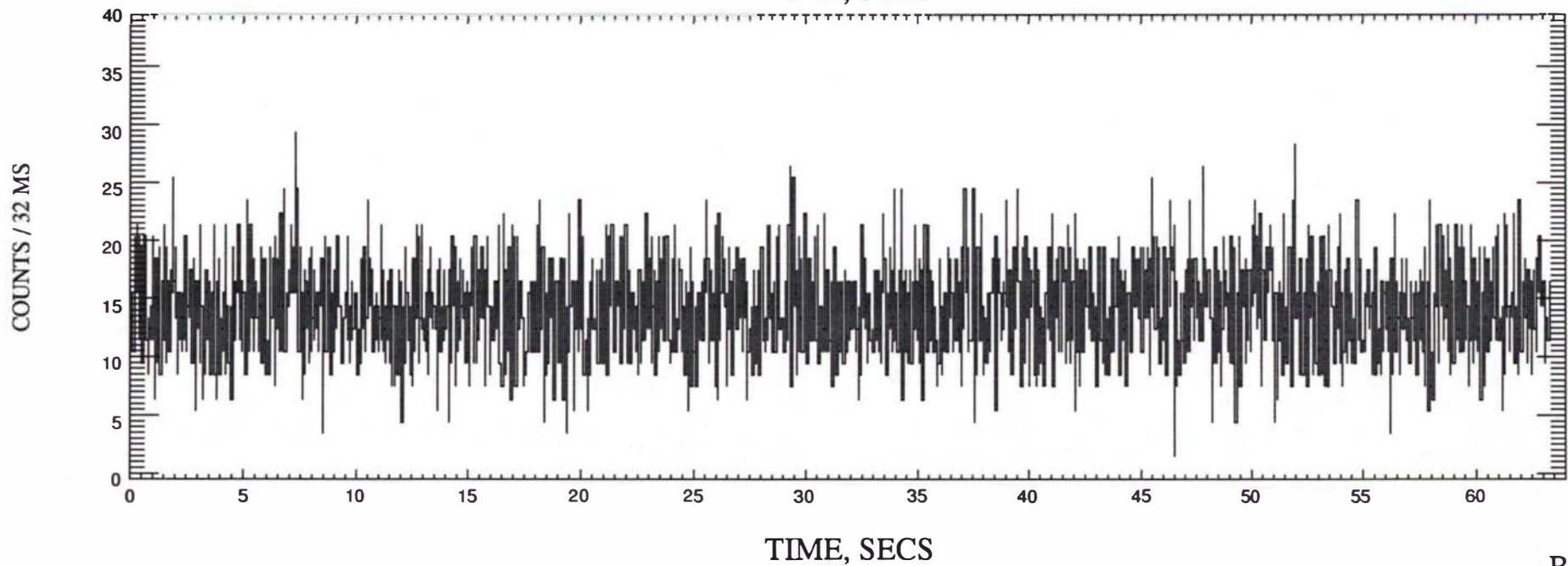
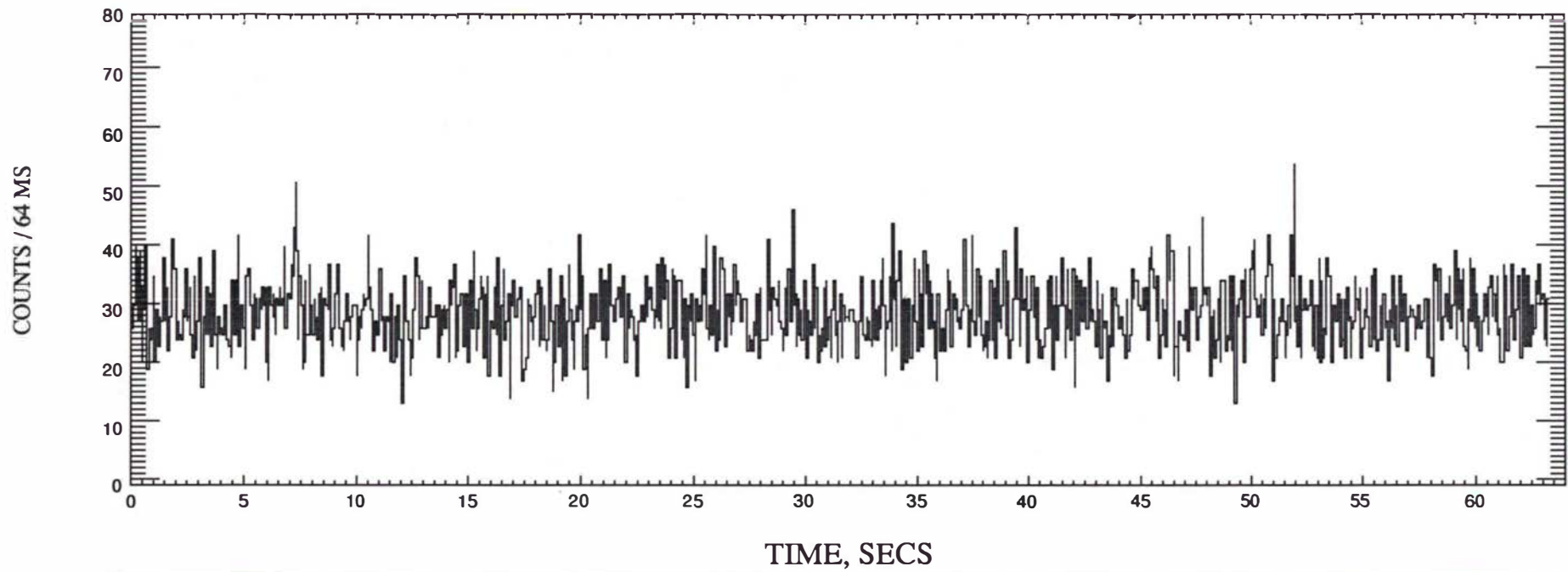
HUS MODES EDR day 237, year 1995 to day 237, year 1995
BURST NUMBER 12

1/25/96



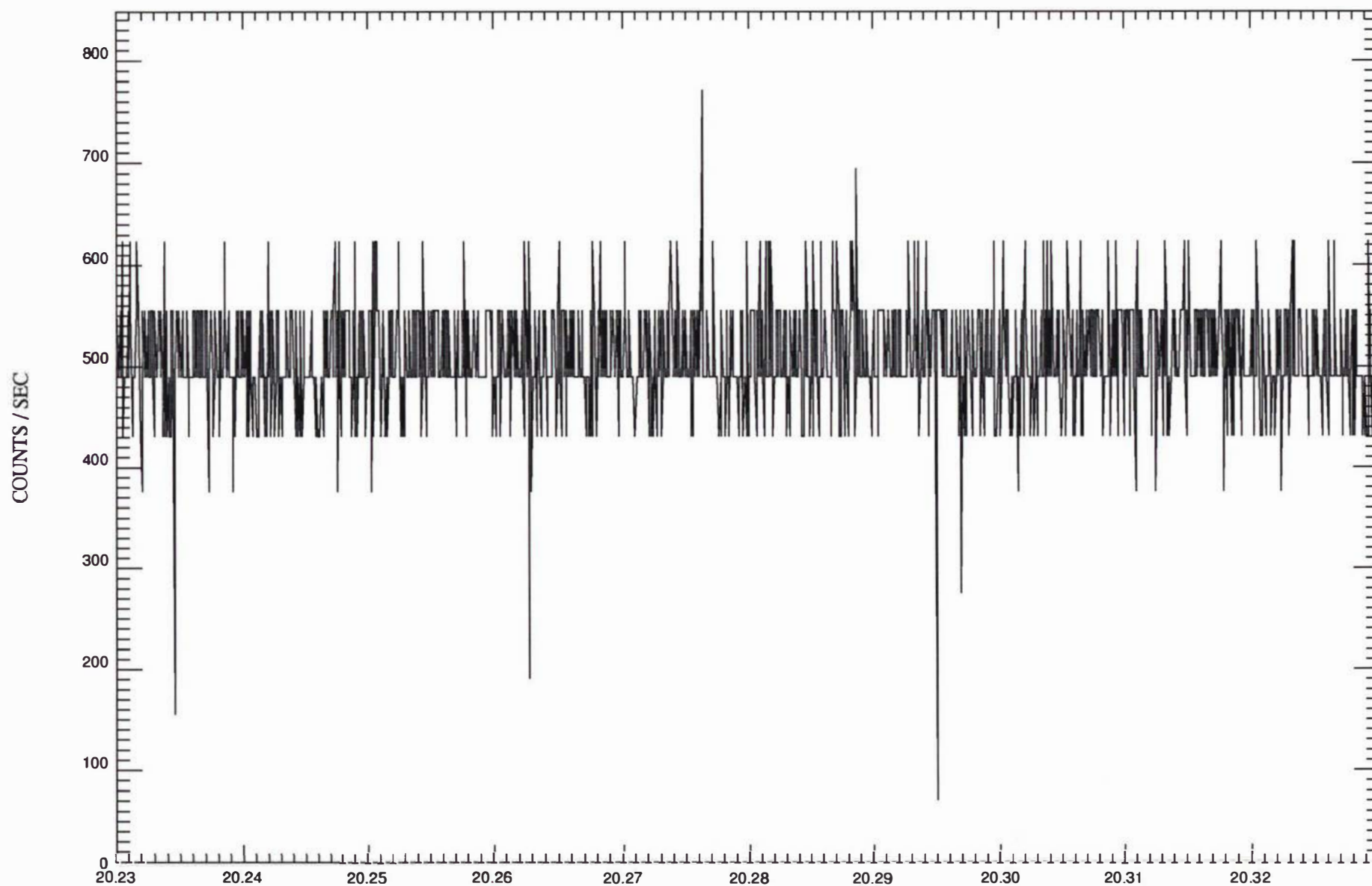
HUS 2A TRIGGERED DATA EDR day 237, year 1995
Burst Counter 12 at UT=20.276392152574 h=72995.012 s 20:16:35.012

1/25/96



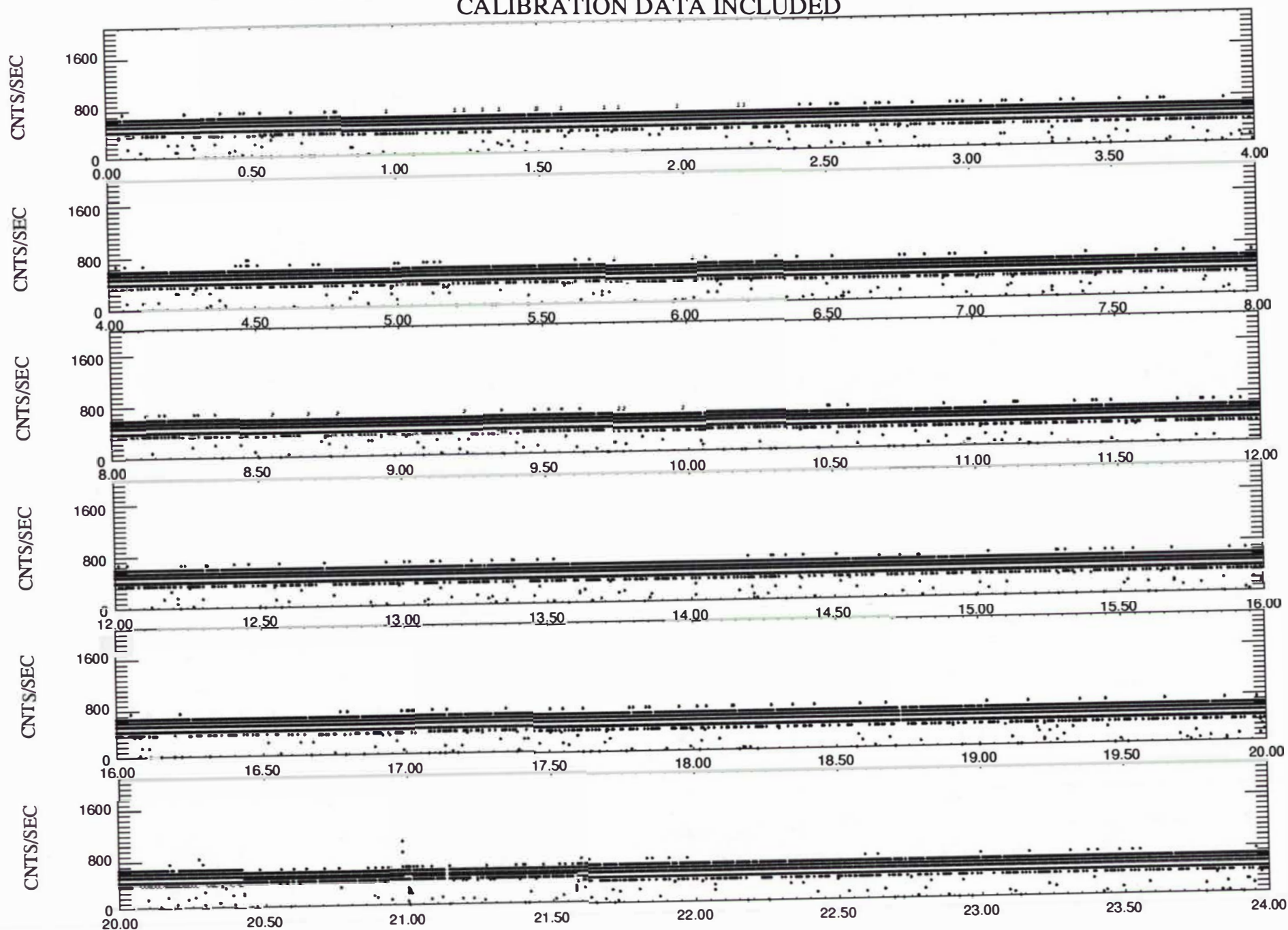
HUS 2A, MODE 1, NOT AVERAGED QEDR day 237, year 1995 to day 237, year 1995
CALIBRATION DATA INCLUDED

8/28/95

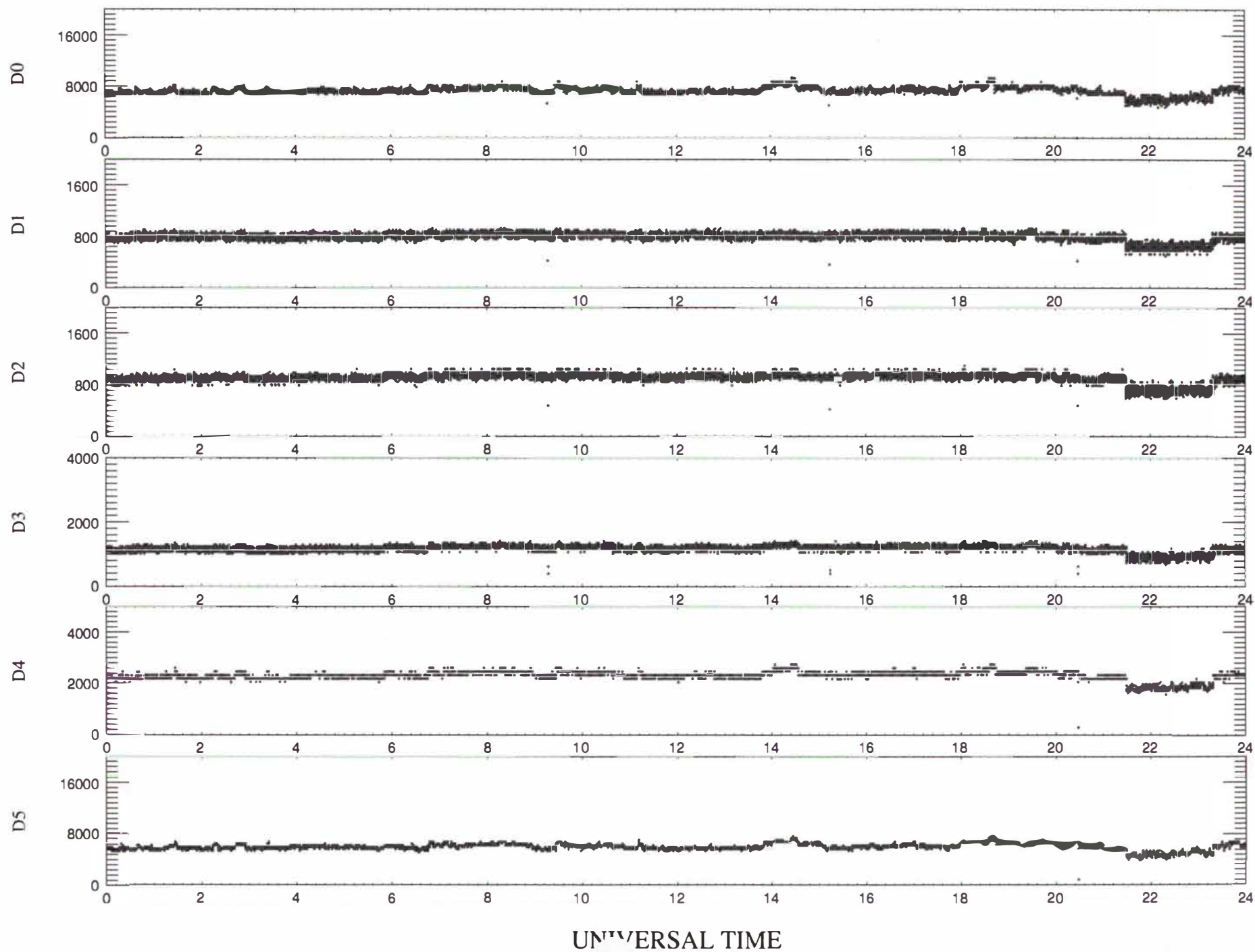


HUS 2A, MODE 1, NOT AVERAGED EDR day 237, year 1995 to day 237, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVF AL TIME



From HAGEDON@fender.msfc.nasa.gov Mon Aug 28 18:28 PDT 1995
From: HAGEDON@fender.msfc.nasa.gov
Date: Mon, 28 Aug 1995 20:28:09 -0500 (CDT)
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
band@cass09.ucsd.edu, gruber@cass09.ucsd.edu, matteson@cass09.ucsd.edu,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3769

TIME: TJD=9955 SECONDS=07069

TYPE: CYGX-1 SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

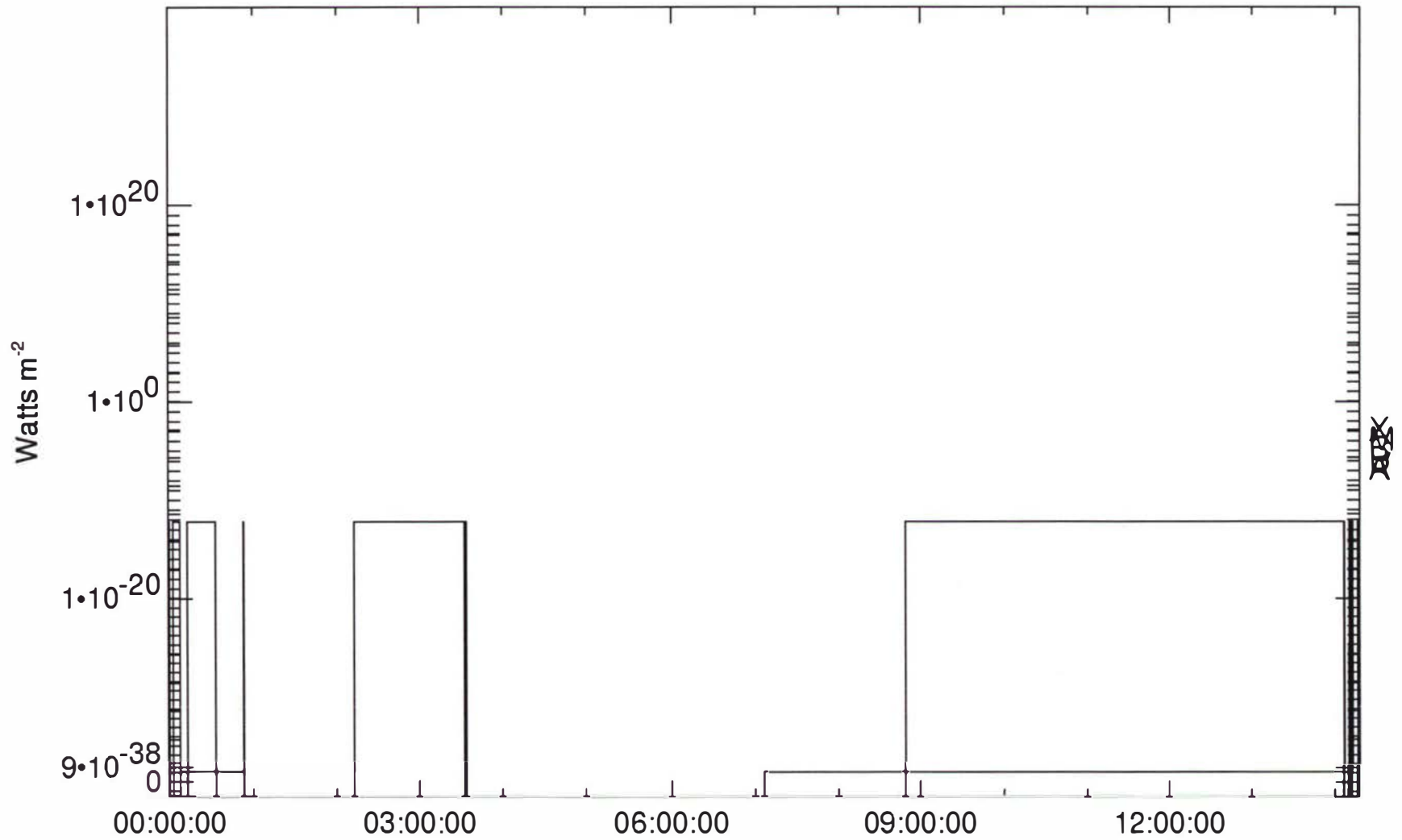
INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYG X-1 FLUCTUATION JUST AFTER RISE.
NOT VISIBLE ABOVE 300 KEV.

GOES

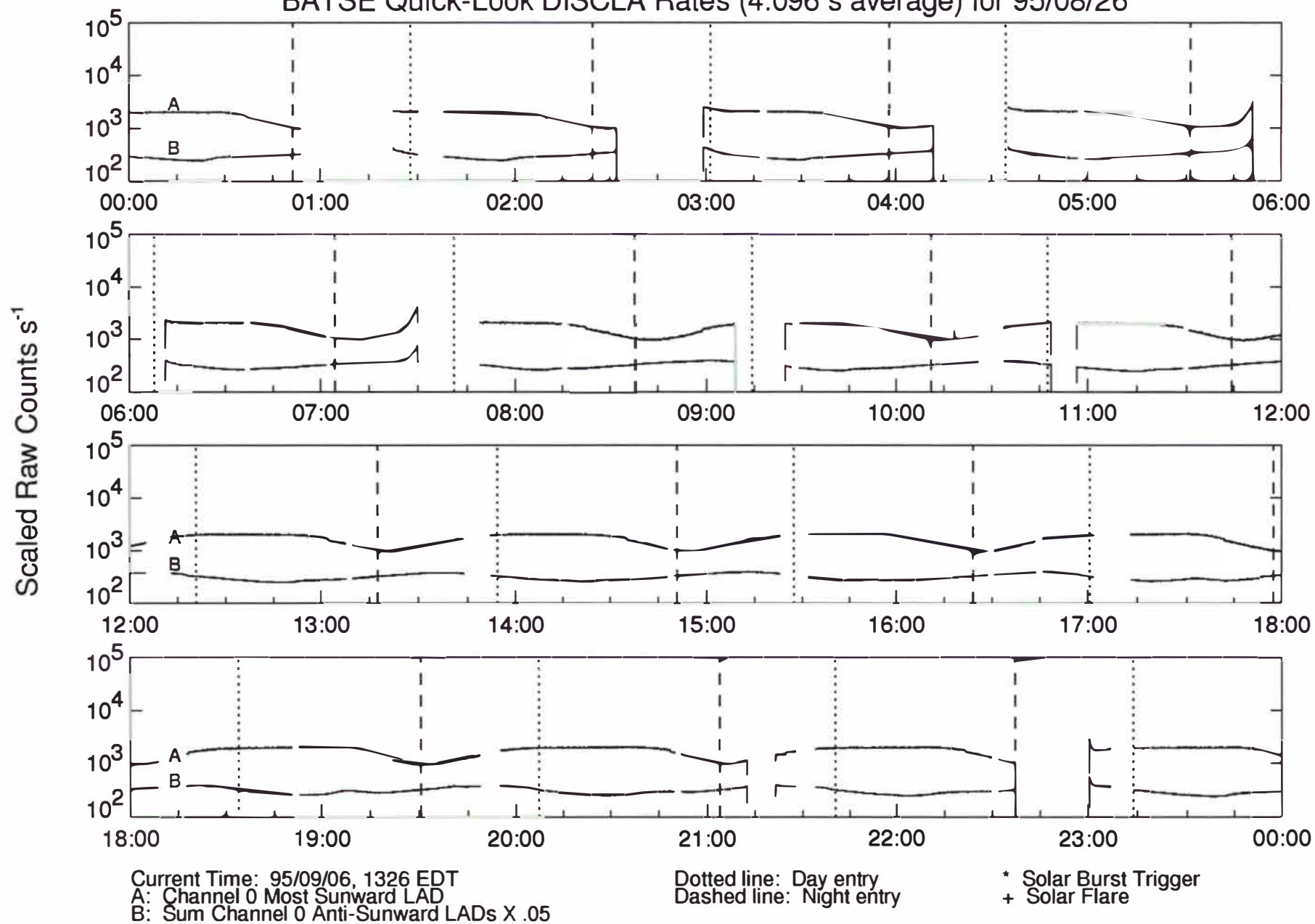


Data Start: 95/08/26, 2359:59

Plot created: 95/08/29, 0528

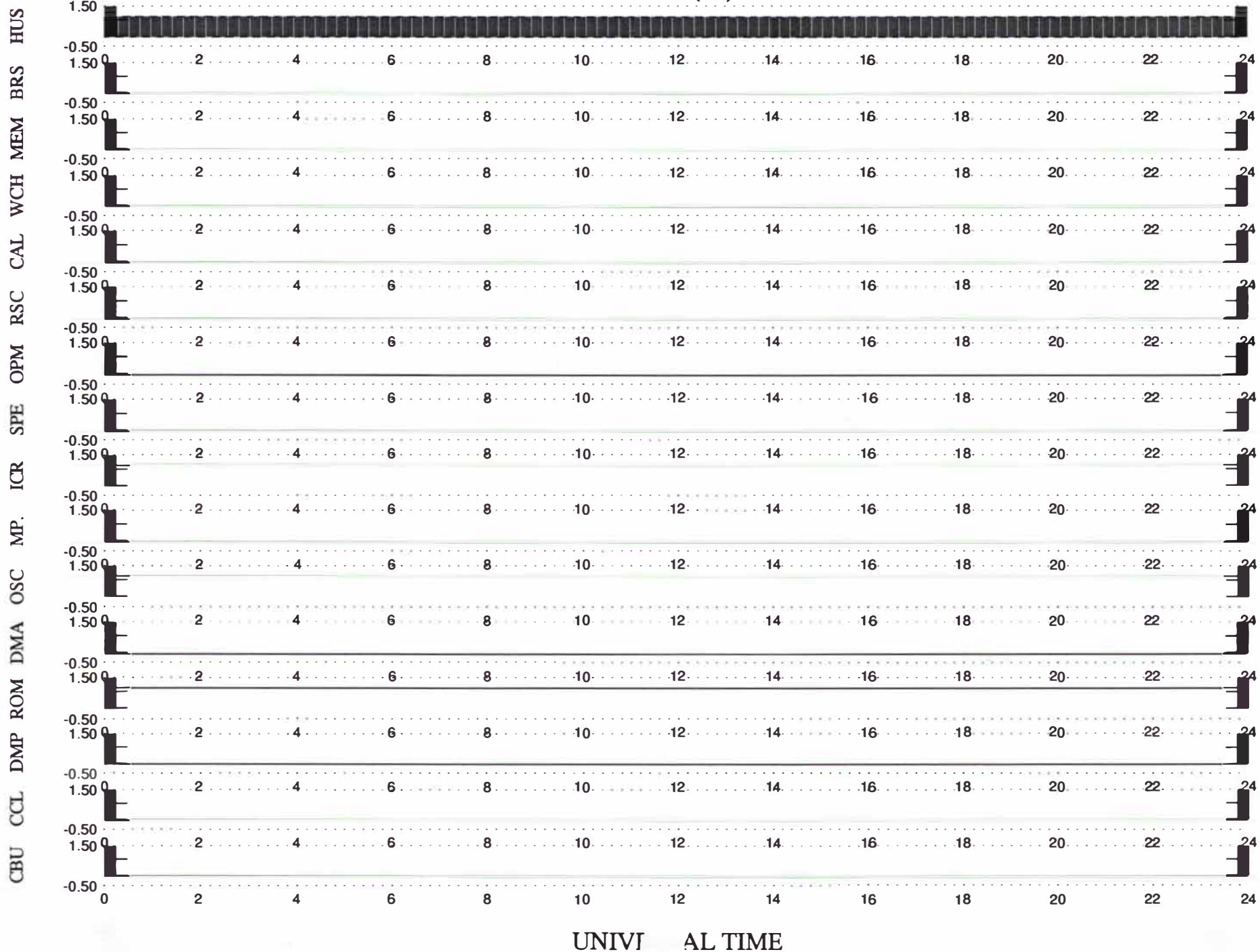
Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted
Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/26



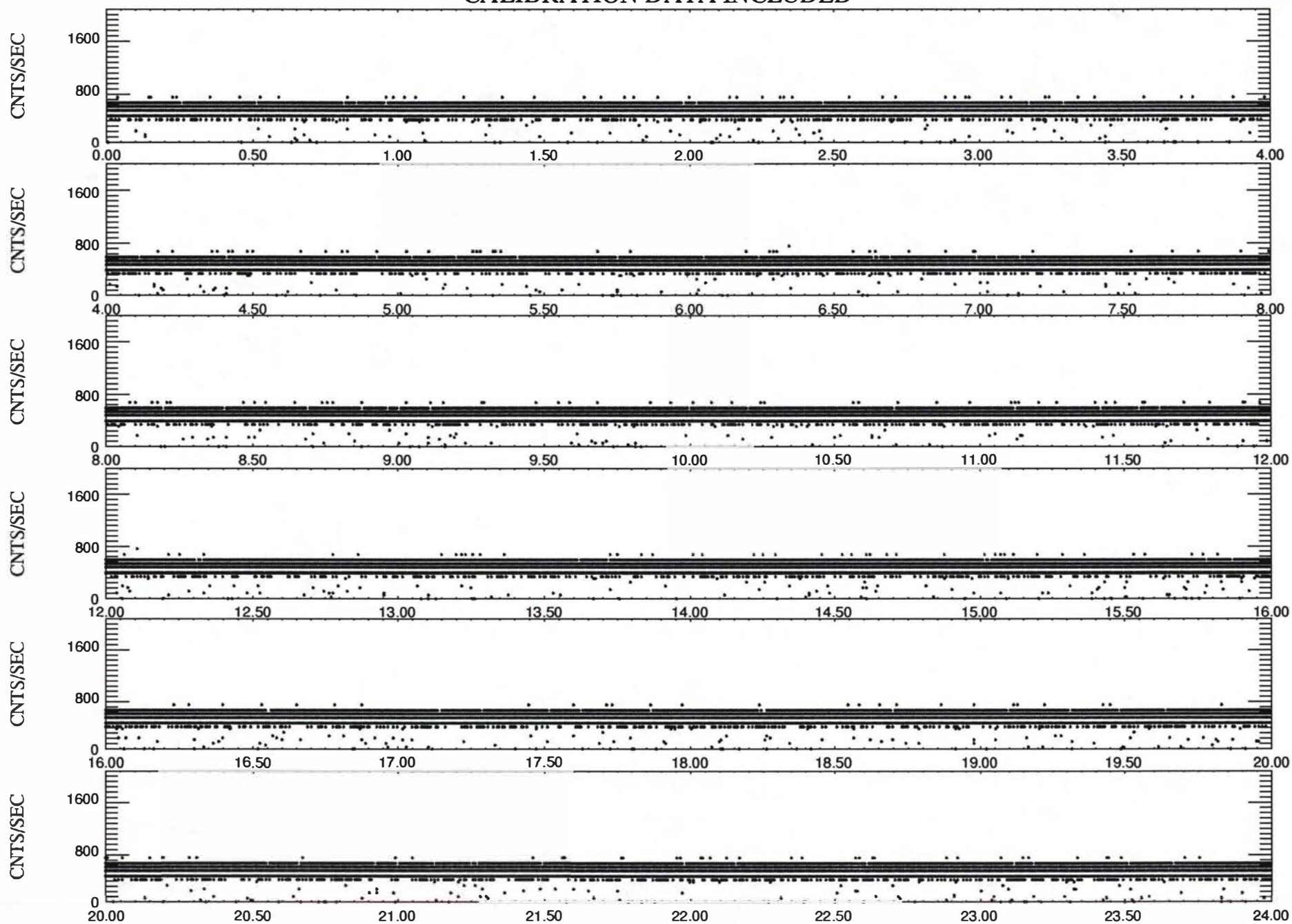
HUS MODES EDR day 238, year 1995 to day 238, year 1995
NO BURST (12)

1/25/96

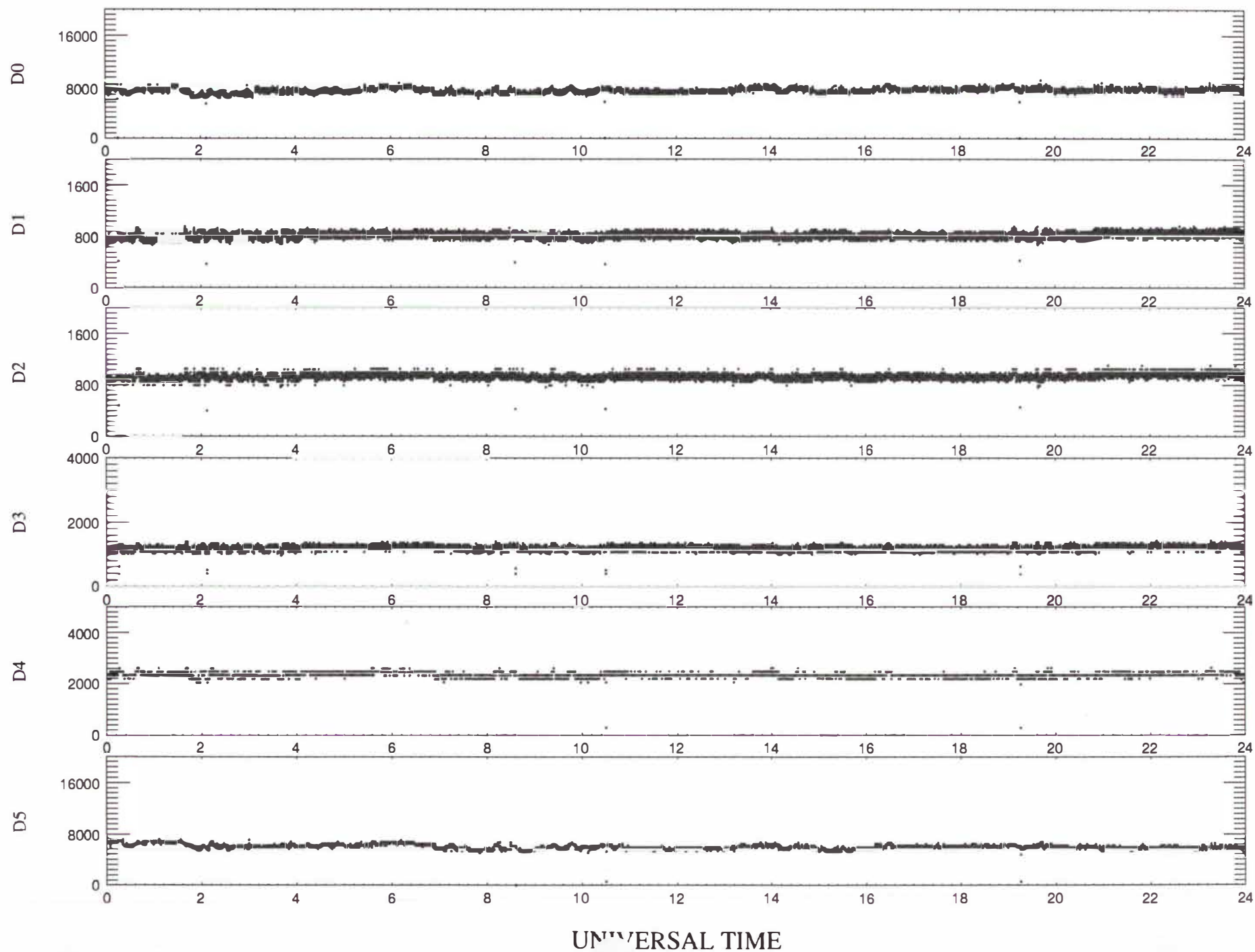


HUS 2A, MODE 1, NOT AVERAGED EDR day 238, year 1995 to day 238, year 1995
CALIBRATION DATA INCLUDED

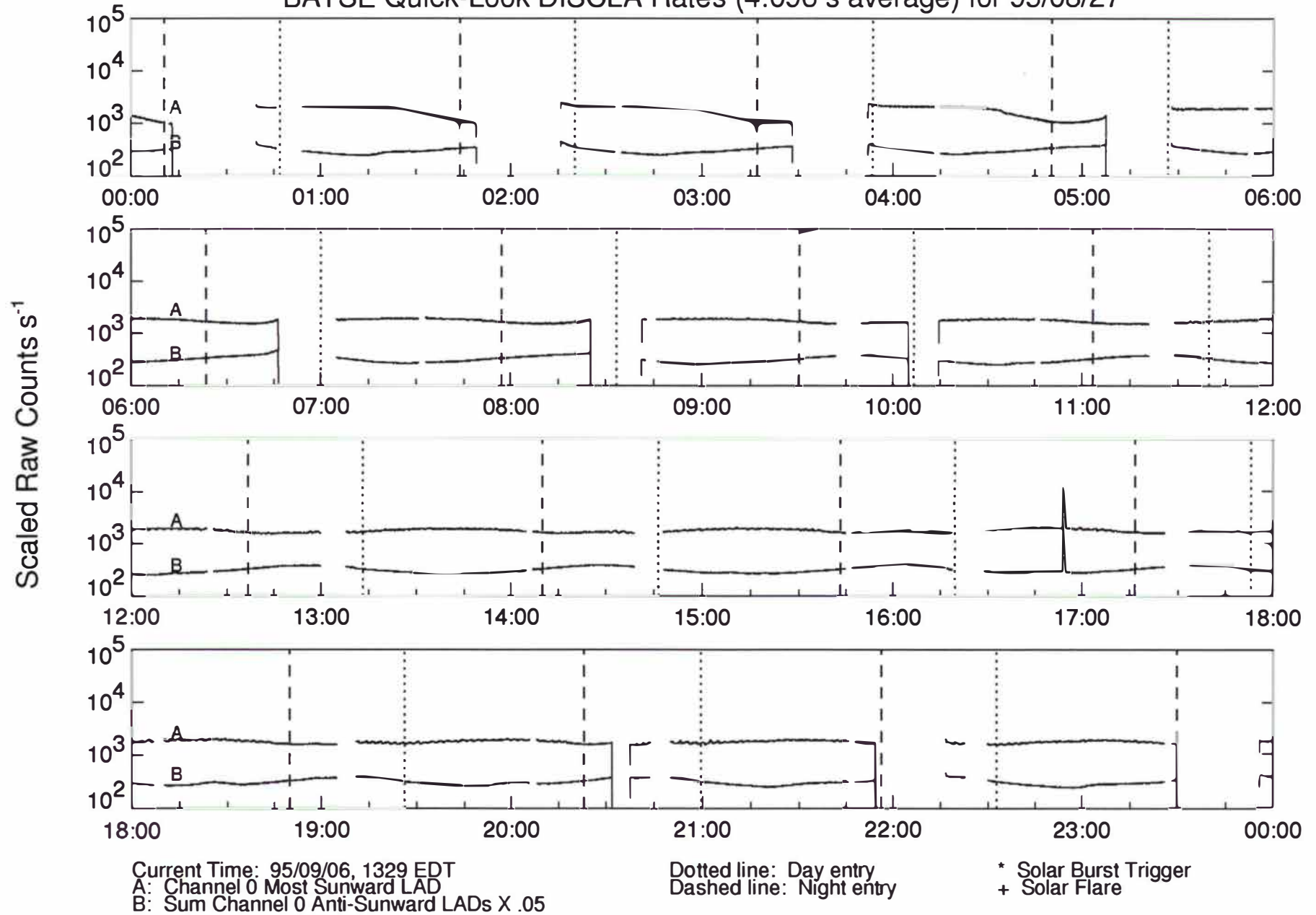
1/25/96



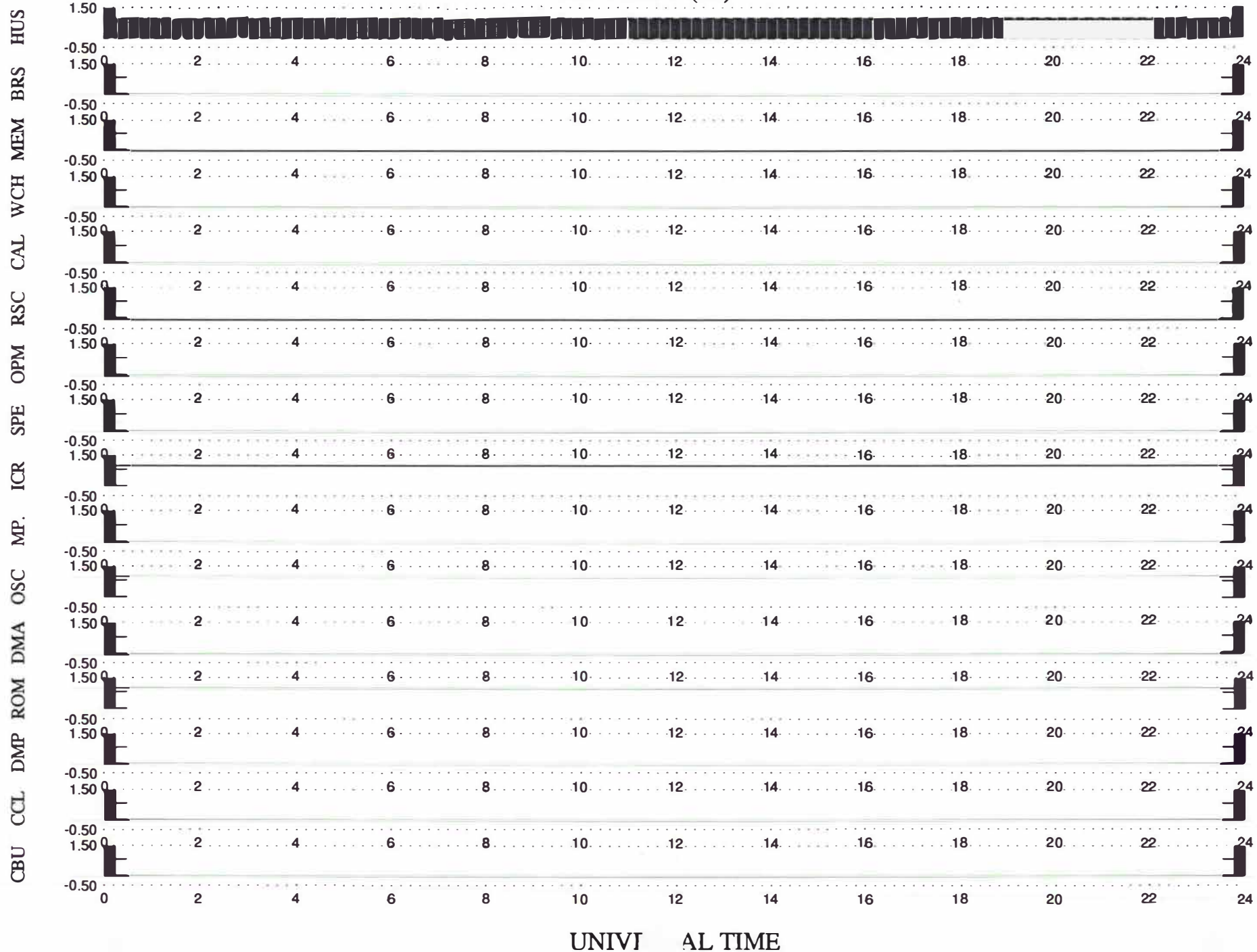
UNIVF AL TIME



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/27

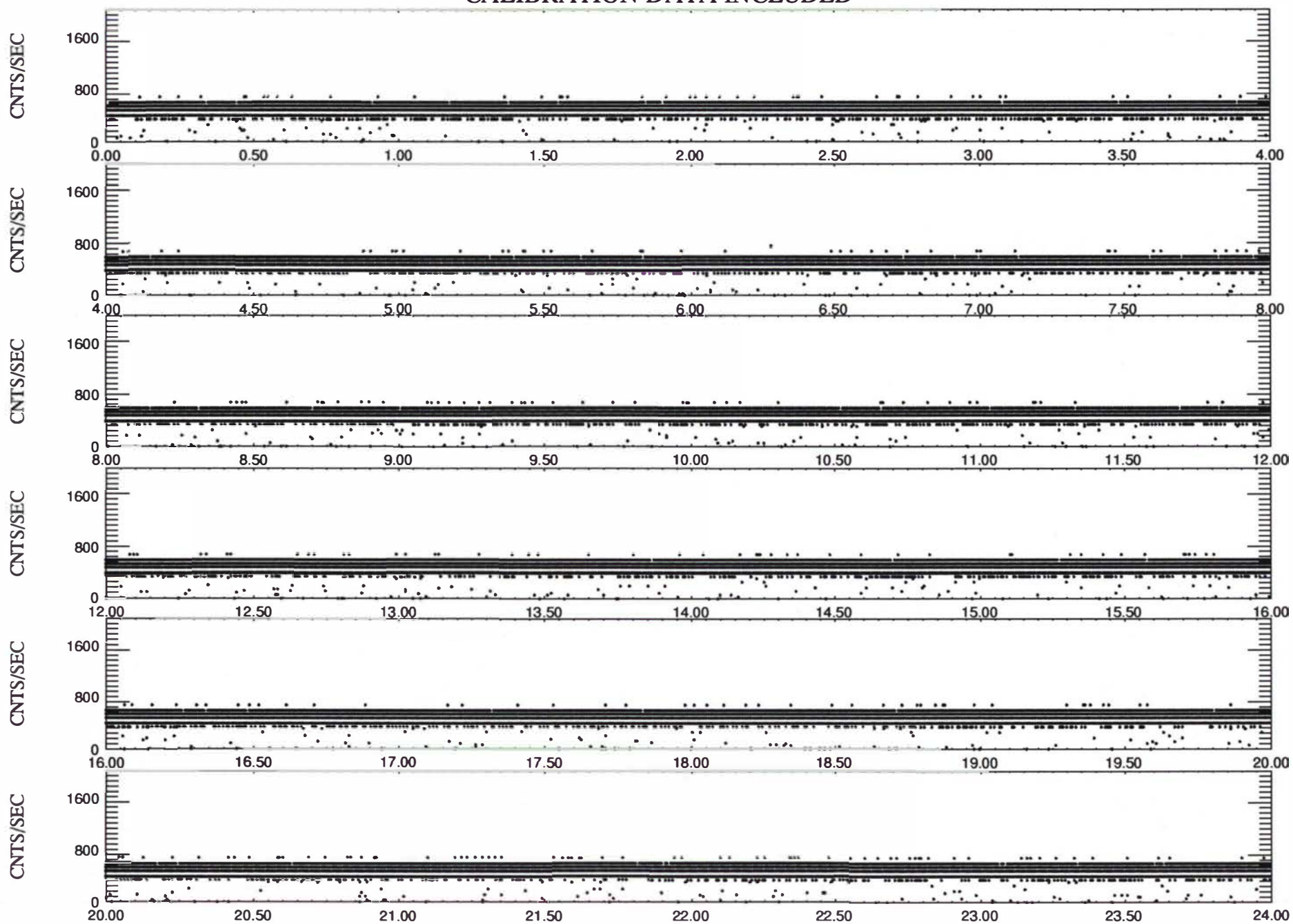


1/25/96

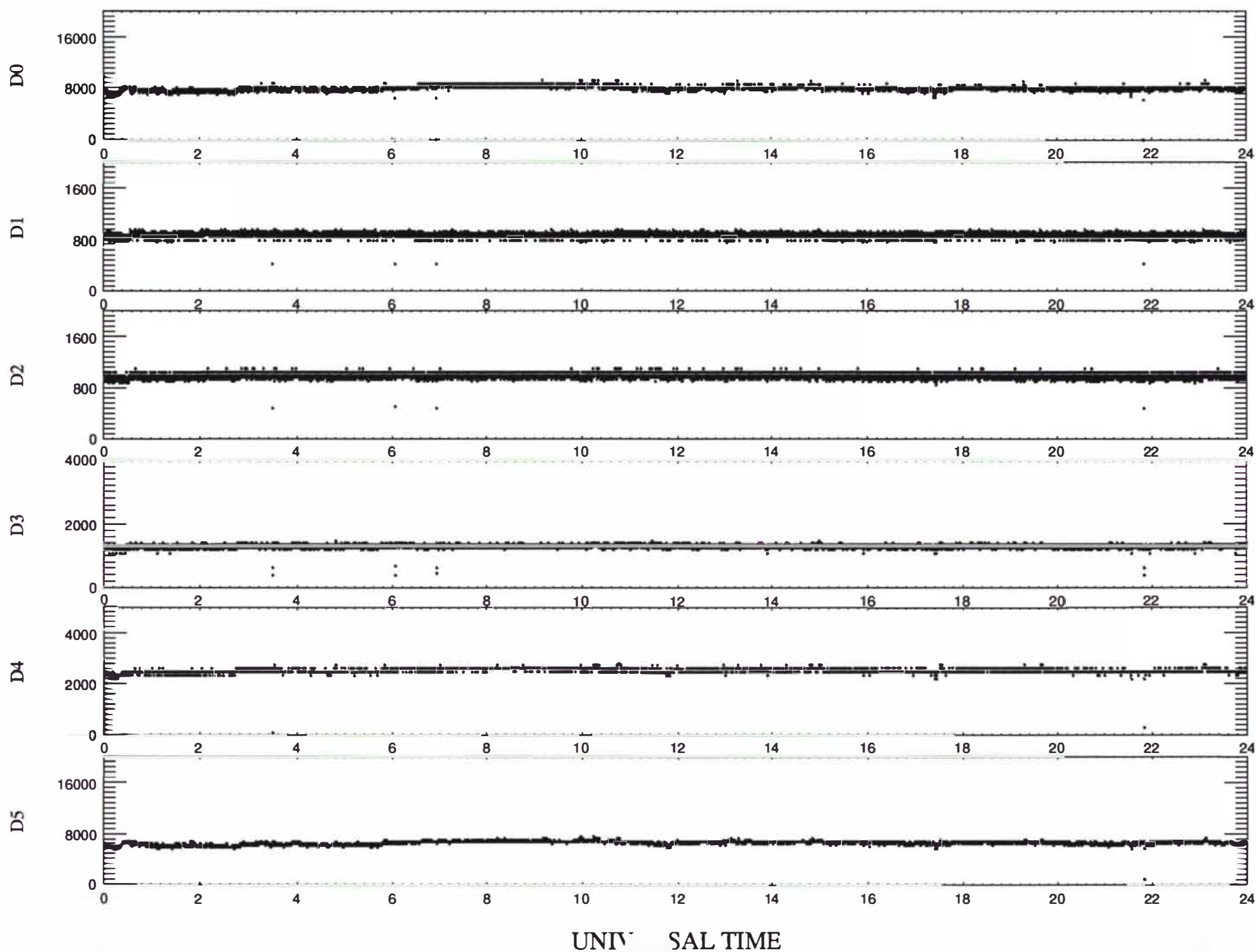


HUS 2A, MODE 1, NOT AVERAGED EDR day 239, year 1995 to day 239, year 1995
CALIBRATION DATA INCLUDED

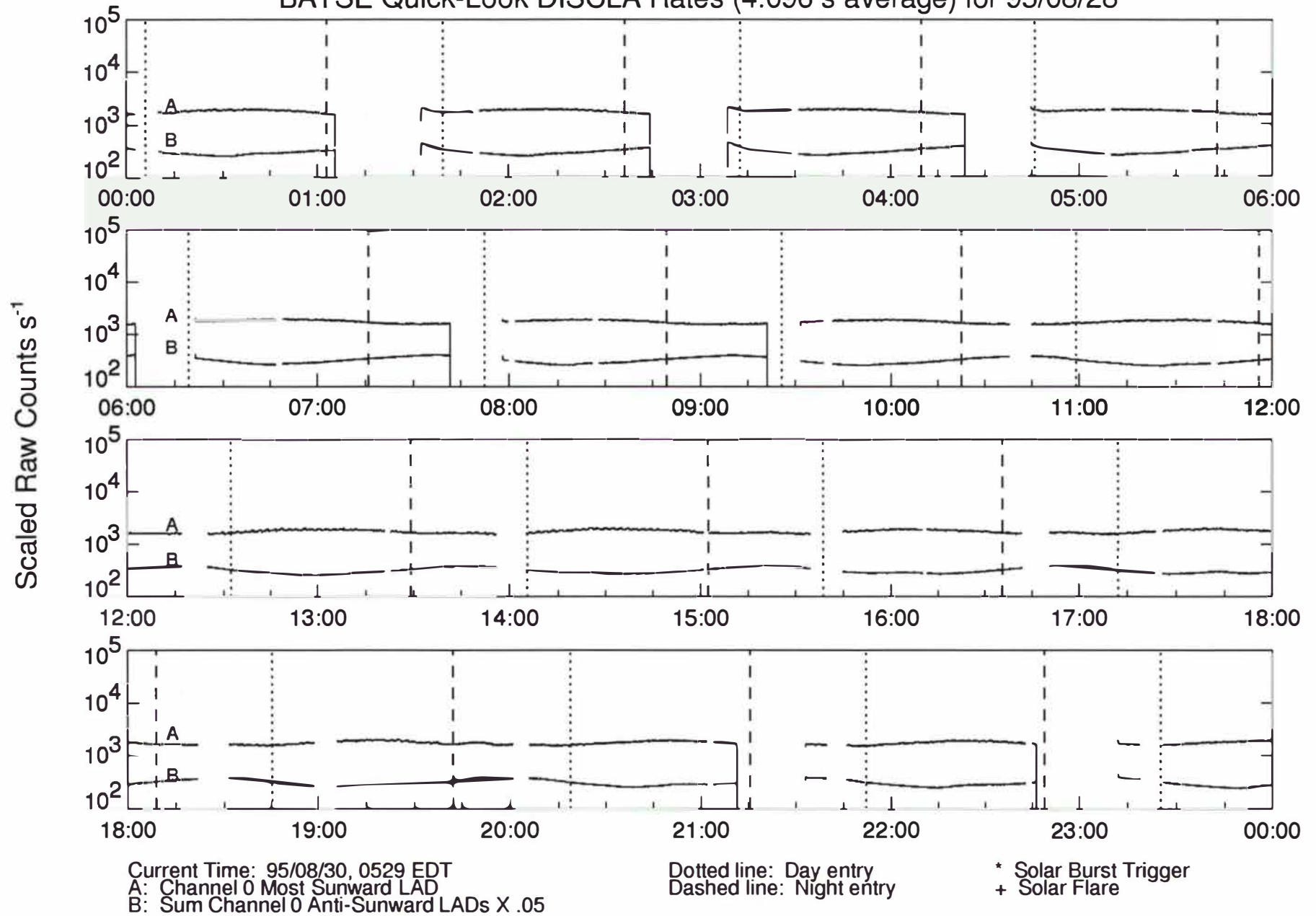
1/25/96



UNIVF AL TIME

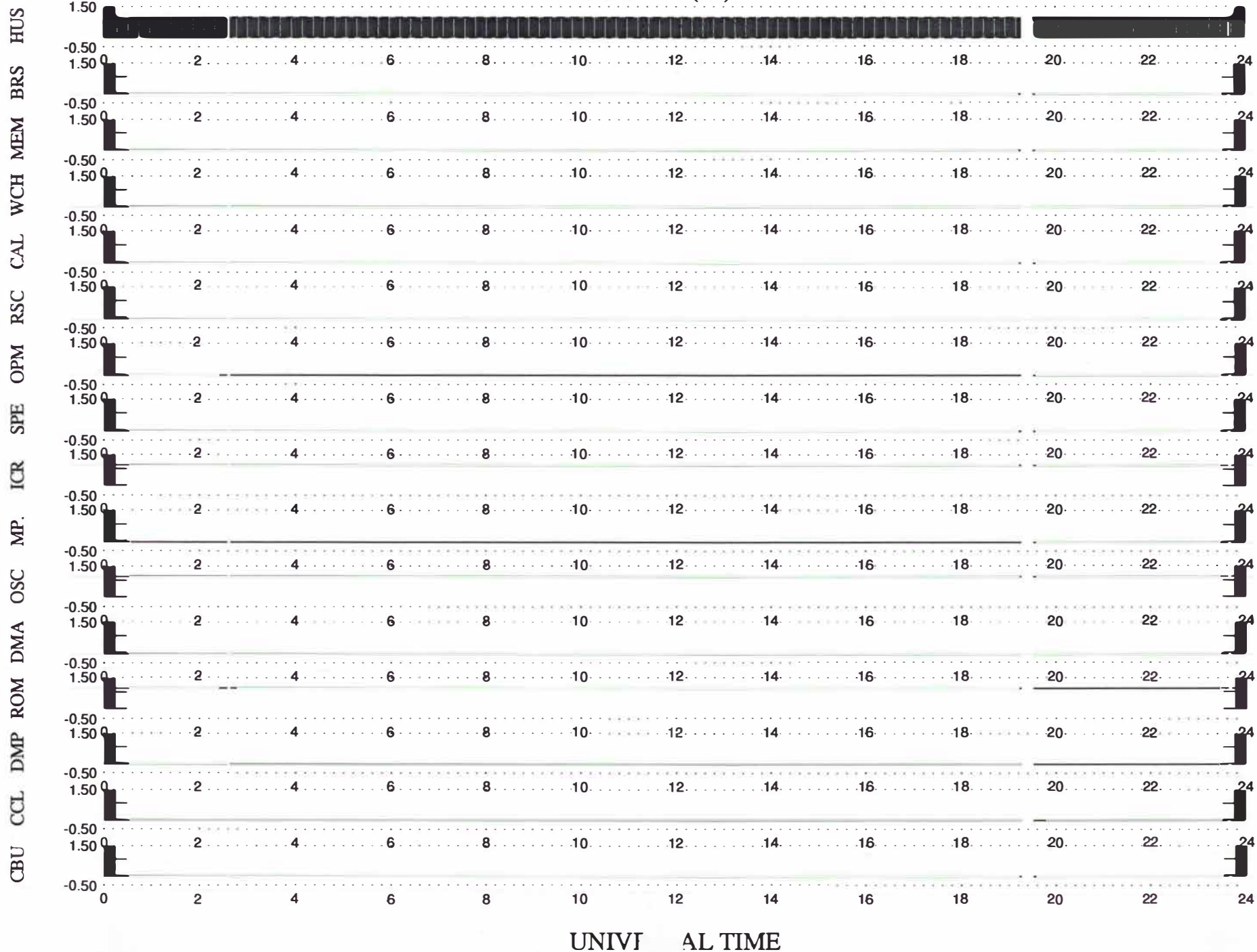


BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/28



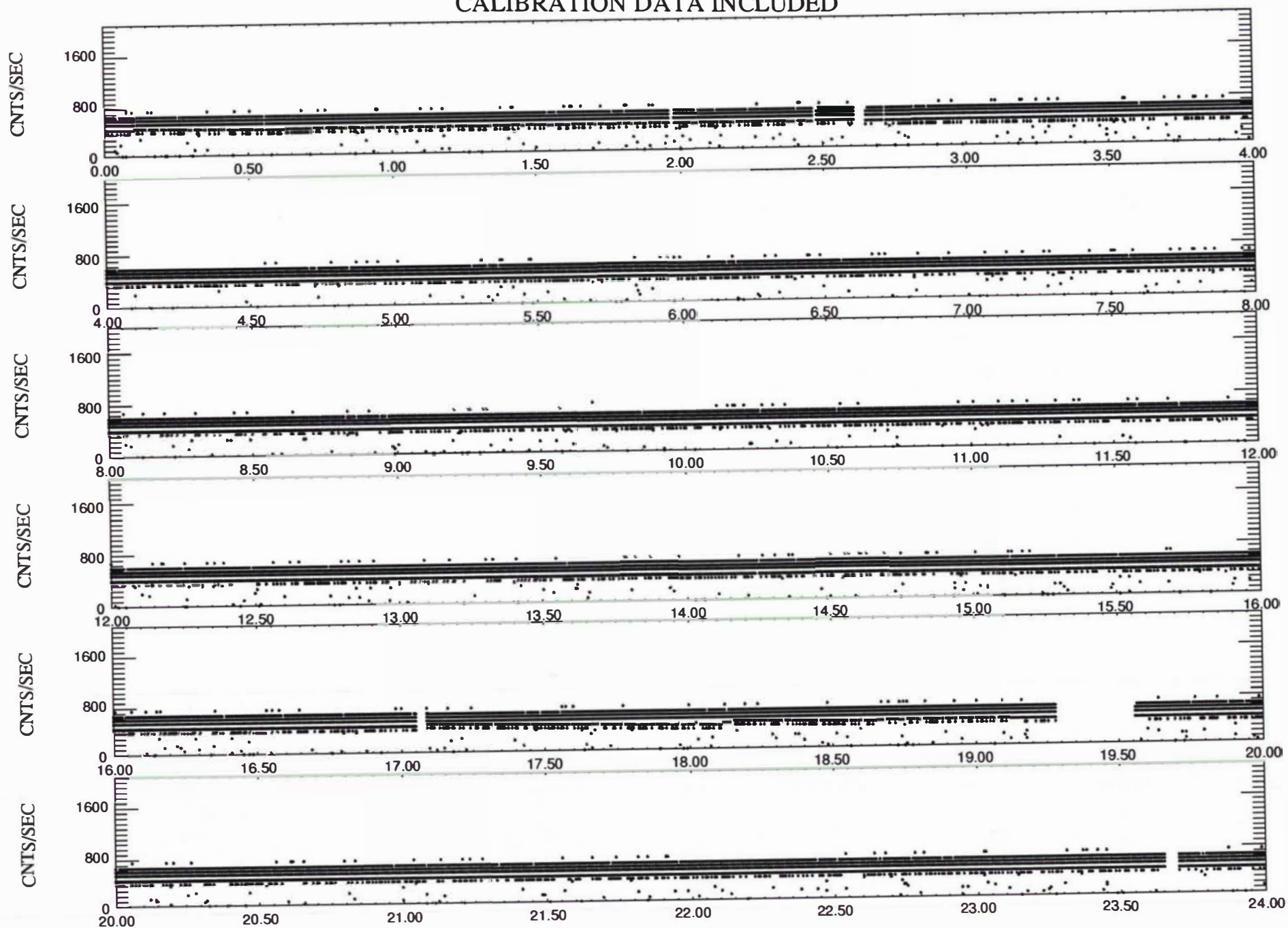
HUS MODES EDR day 240, year 1995 to day 240, year 1995
NO BURST (12)

1/25/96

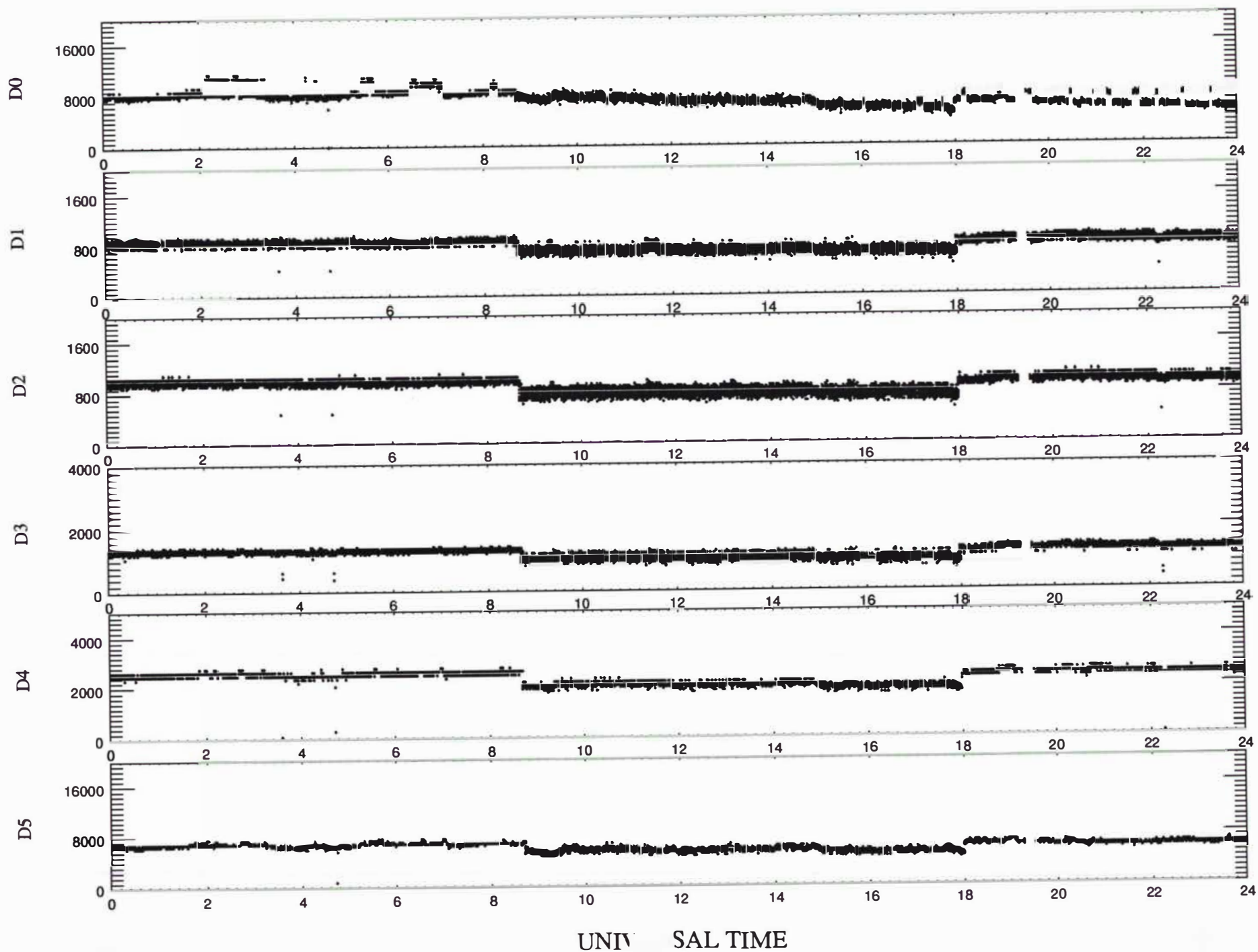


HUS 2A, MODE 1, NOT AVERAGED EDR day 240, year 1995 to day 240, year 1995
CALIBRATION DATA INCLUDED

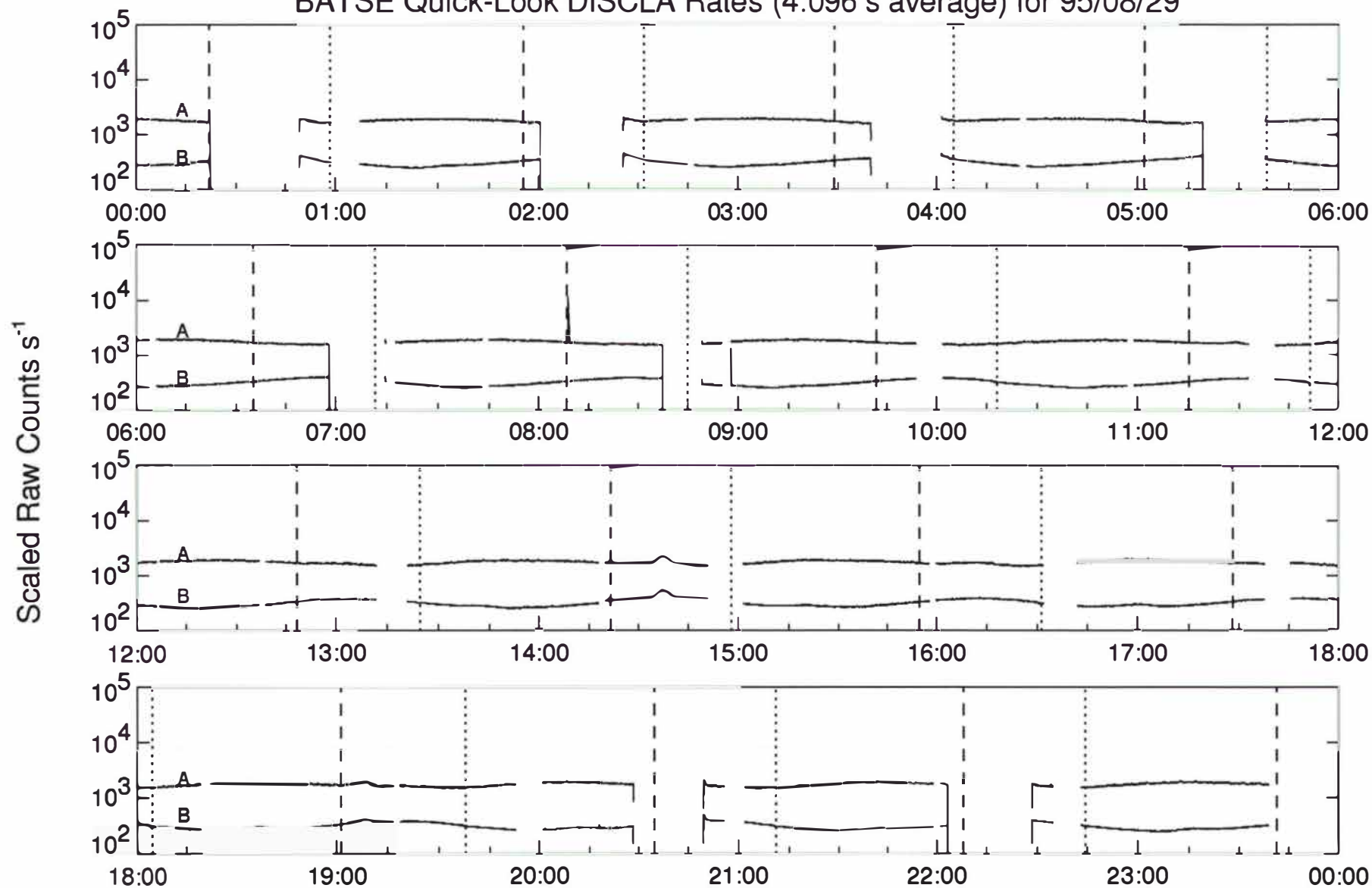
1/25/96



UNIVF AL TIME



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/29



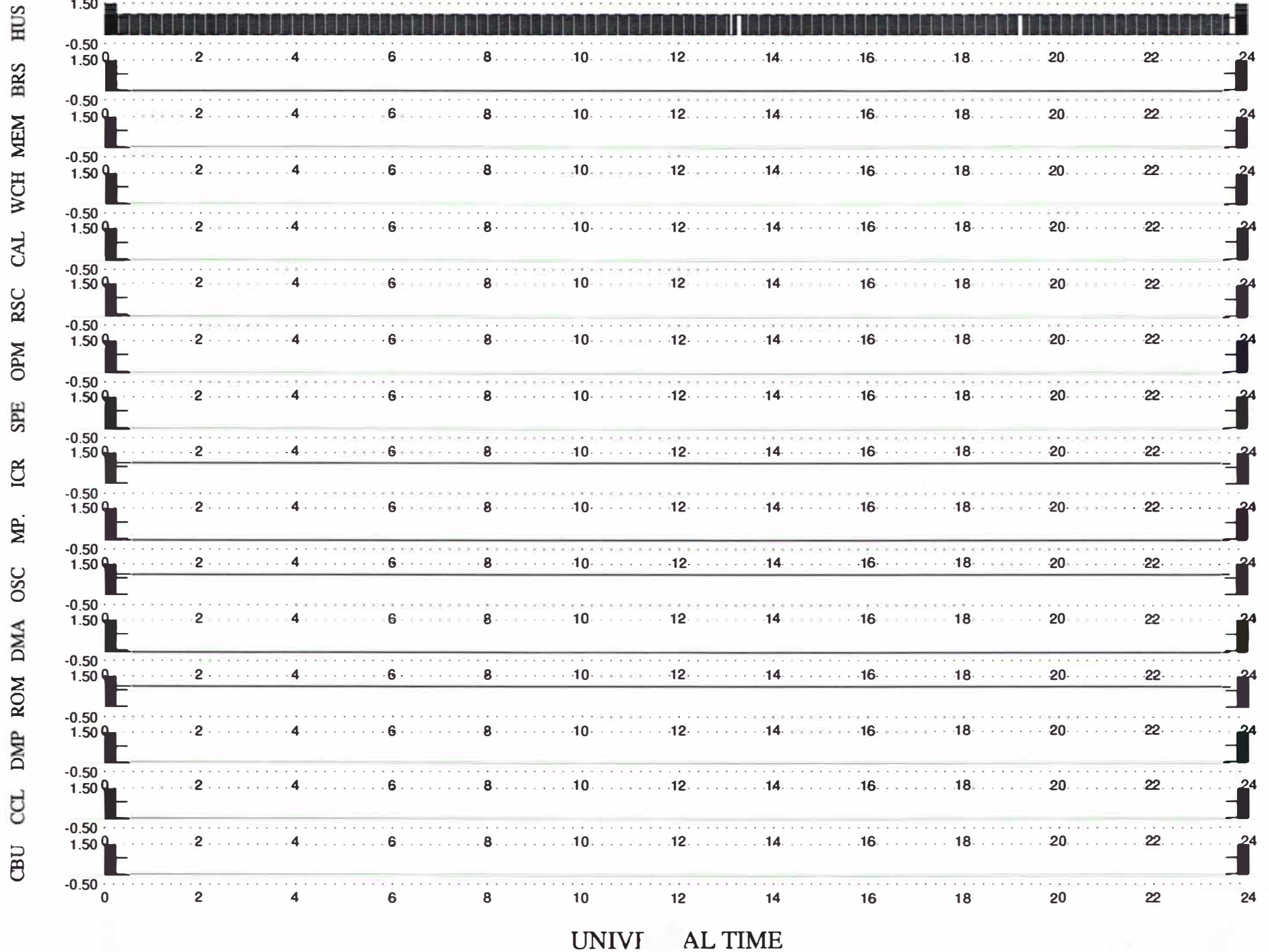
Current Time: 95/09/06, 1254 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

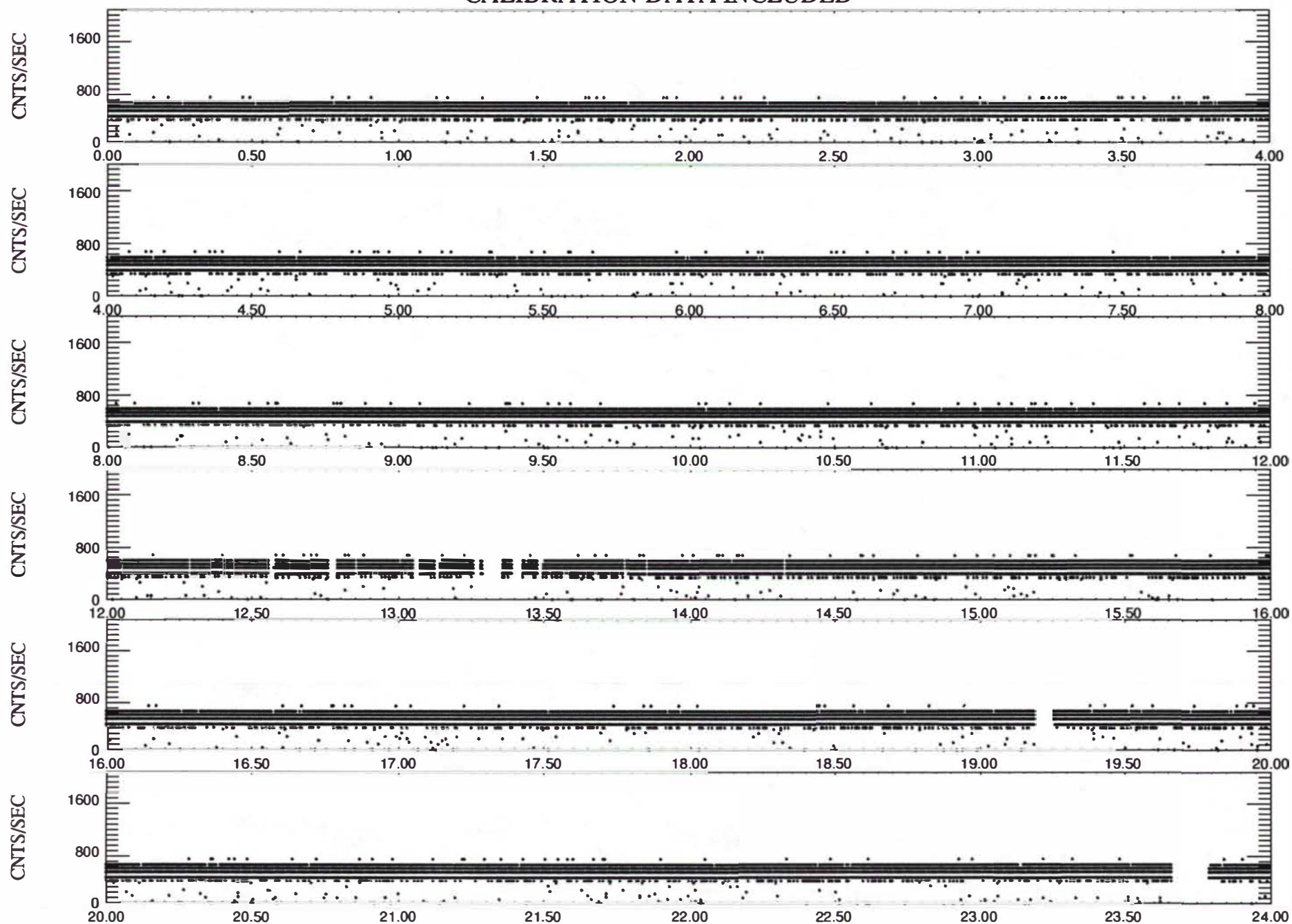
HUS MODES EDR day 241, year 1995 to day 241, year 1995
NO BURST (12)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 241, year 1995 to day 241, year 1995
CALIBRATION DATA INCLUDED

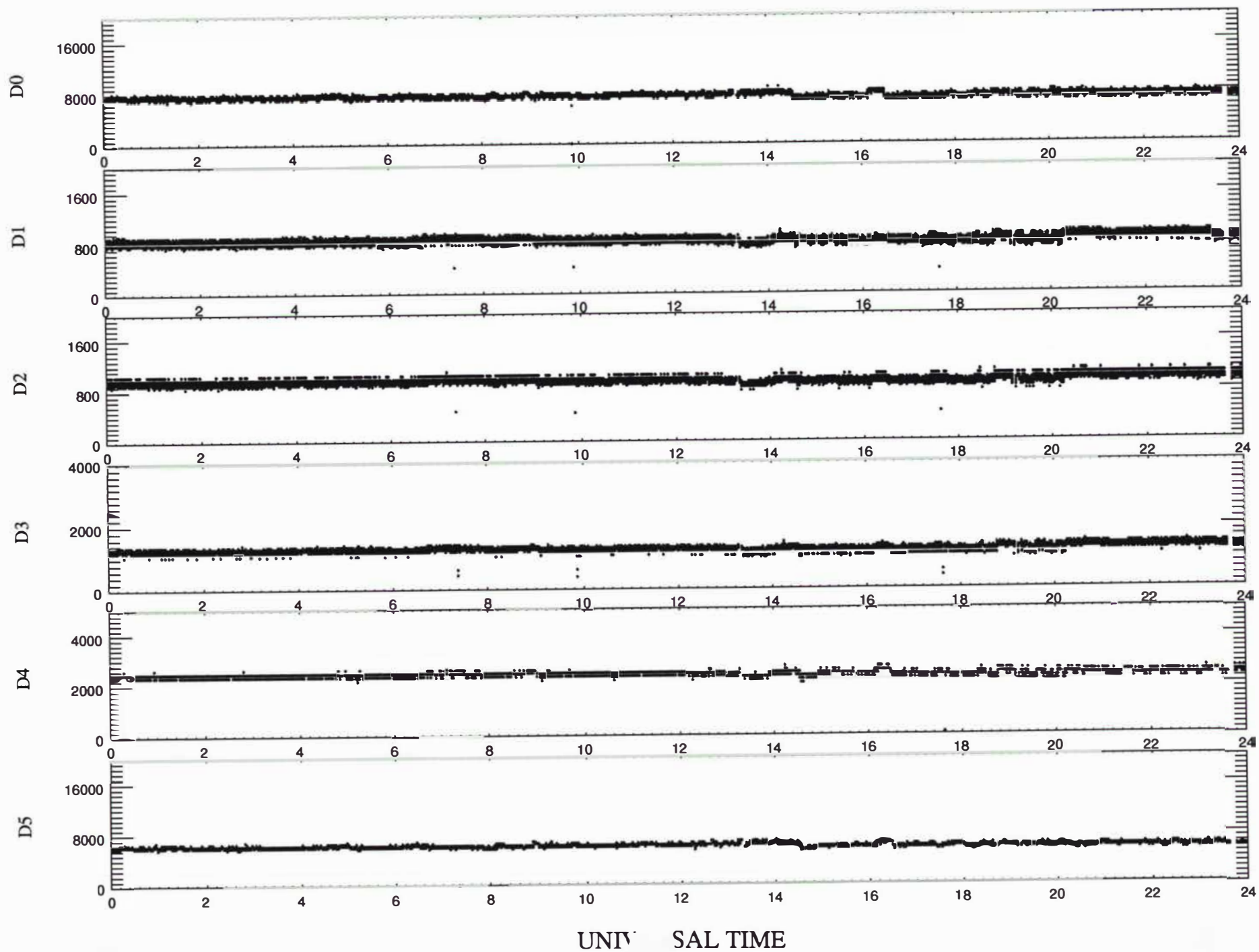
1/25/96



UNIVERSAL TIME

HUS 2B COUNTS / SEC QEDR day 241, year 1995 to day 241, year 1995

8/30/95



From RICHARDSON@ssl.msfc.nasa.gov Wed Sep 6 10:39 PDT 1995
Date: Wed, 6 Sep 1995 12:39:22 -0500 (CDT)
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3770

BATSEARCH PROGRAM

BATSE BURST # 3770
EVENT OF 1995 AUG 30 DAY OF YEAR=242
EVENT CROSSING TIME AT BATSE : 15244. S. OR 04:14:04.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 326.000 -50.000
BATSE PEAK COUNTING RATE: 19000 C/S

ND
(but should have been?)

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 30/ 8/ 95 IS:
RA= 186.817 DEC= 70.041 DIST= 2.487 AU
BATSE-ULYSSES DISTANCE = 372098677. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 27.61 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 1099.80 SECS.
CROSSING TIME AT ULYSSES IS 16344. S. OR 04:32:23 +/- 166.59 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 30/ 8/ 95 IS:
RA= 202.716 DEC= -9.621 DIST= 2.013 AU
MARS-BATSE DISTANCE = 301156800. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 77.30 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 220.76 SECS.
CROSSING TIME AT MARS IS 15465. S. OR 04:17:44 +/- 173.49 SECONDS

BATSE BURST TRIGGER

NO.: 3770

TIME: TJD=9959 SECONDS=15244

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=121.1 AZIMUTH=199.7 ERROR=4.1 DEGREES

COMMENTS:

GRB. DOUBLE PEAKED, TOTAL DUR.~0.9SEC. VISIBLE ABOVE 300KEV.

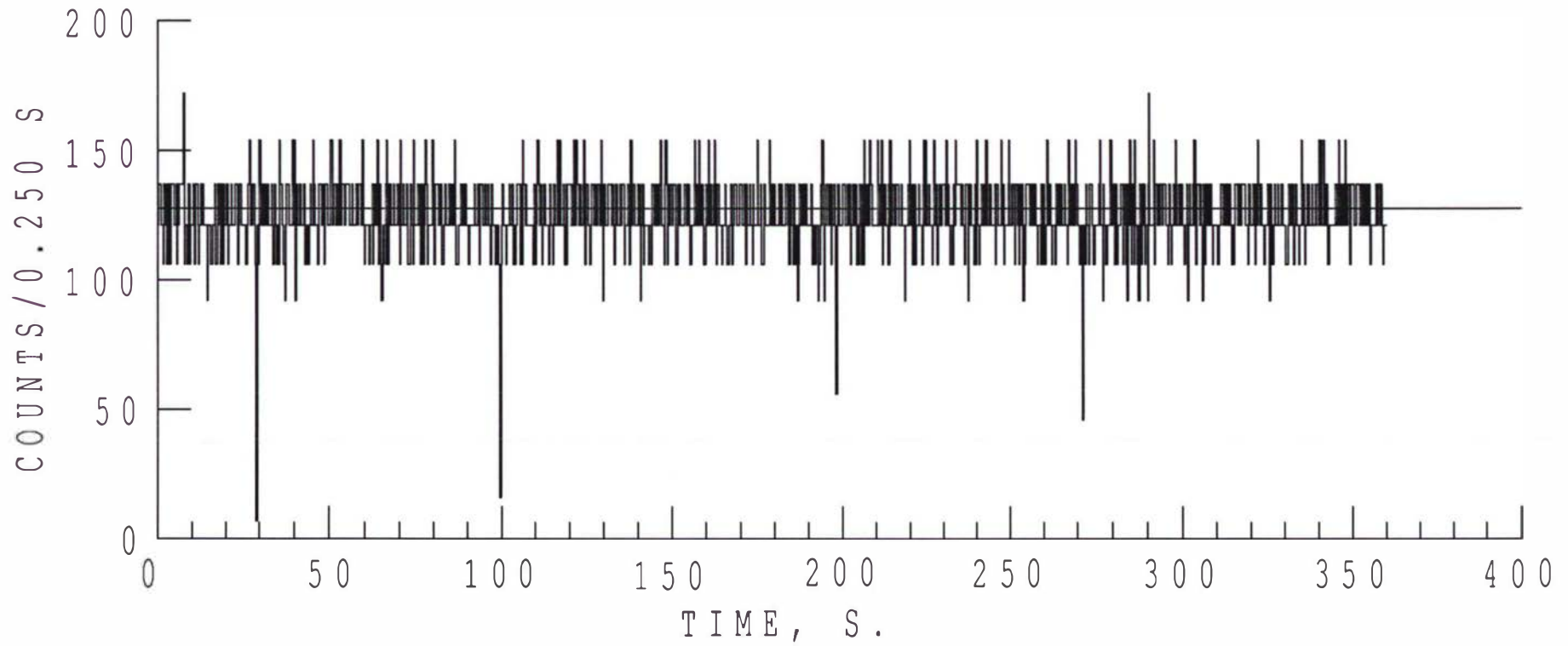
BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3770	950830	9959	15244	19000	326	-50	1

↳ 19000 c in BATSE ⇒ ~1900 in Ulysses!

6 / 9 / 95

ULYSSES RT
30 / 8 / 95 16164.107 s
0 - 0 keV

M= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

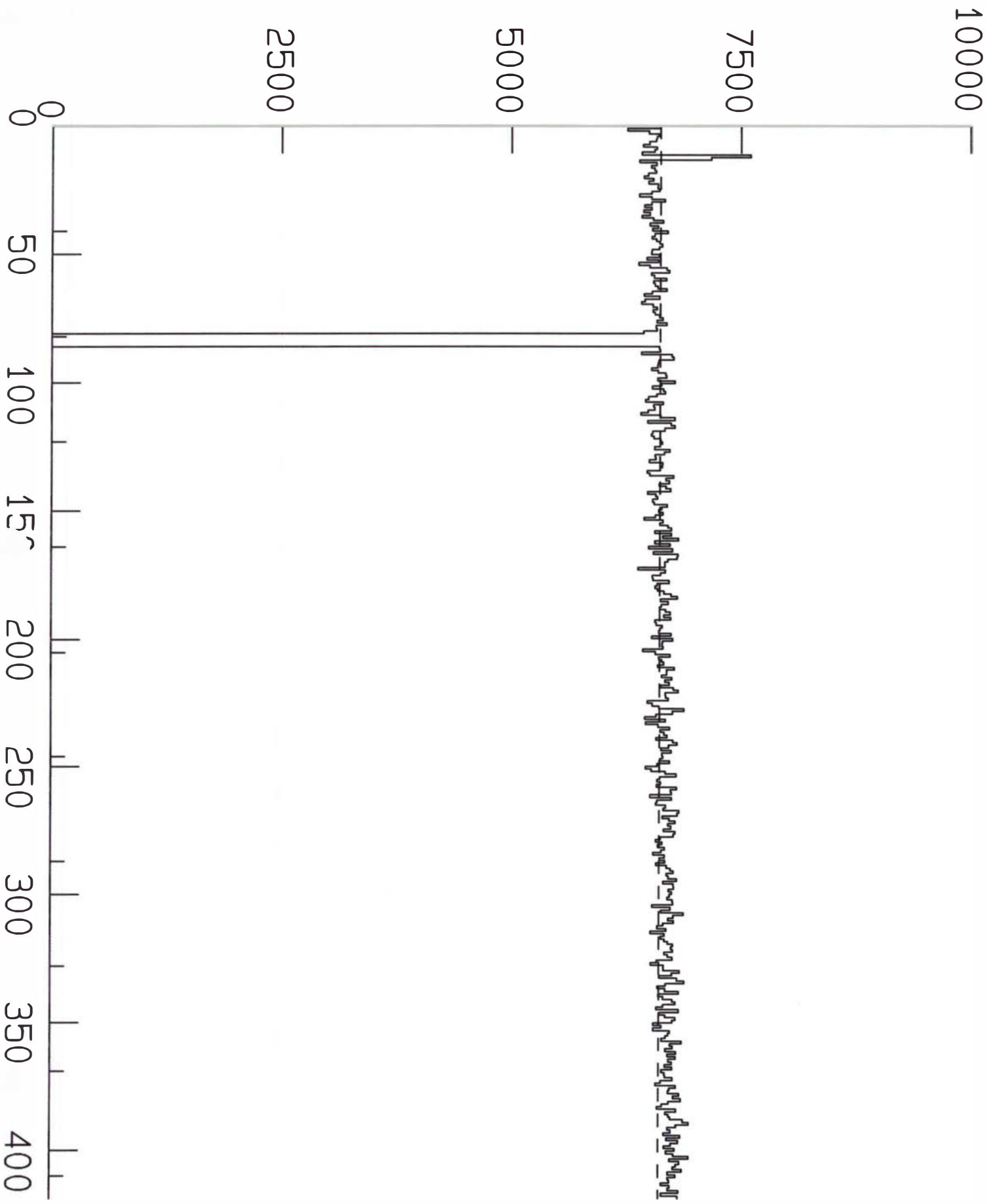


BACODINE

30/08/95

15232.689

25- 100 keV
COUNTS/1.024 S



From RICHARDSON@ssl.msfc.nasa.gov Tue Sep 5 10:12 PDT 1995
From: RICHARDSON@ssl.msfc.nasa.gov
Date: Tue, 5 Sep 1995 12:10:26 -0500 (CDT)
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3771

BATSEARCH PROGRAM

NO

BATSE BURST # 3771
EVENT OF 1995 AUG 30 DAY OF YEAR=242
EVENT CROSSING TIME AT BATSE : 37590. S. OR 10:26:30.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 330.000 -65.000
BATSE PEAK COUNTING RATE: 6000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 30/ 8/ 95 IS:
RA= 186.985 DEC= 69.943 DIST= 2.489 AU
BATSE-ULYSSES DISTANCE = 372411801. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 14.73 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 1201.39 SECS.
CROSSING TIME AT ULYSSES IS 38791. S. OR 10:46:31 +/- 123.10 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 30/ 8/ 95 IS:
RA= 202.716 DEC= -9.621 DIST= 2.013 AU
MARS-BATSE DISTANCE = 301156800. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 84.21 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 101.39 SECS.
CROSSING TIME AT MARS IS 37691. S. OR 10:28:11 +/- 175.05 SECONDS

BATSE BURST TRIGGER

NO.: 3771

TIME: TJD=9959 SECONDS=37590

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=125.9 AZIMUTH=217.0 ERROR=2.7 DEGREES

COMMENTS:

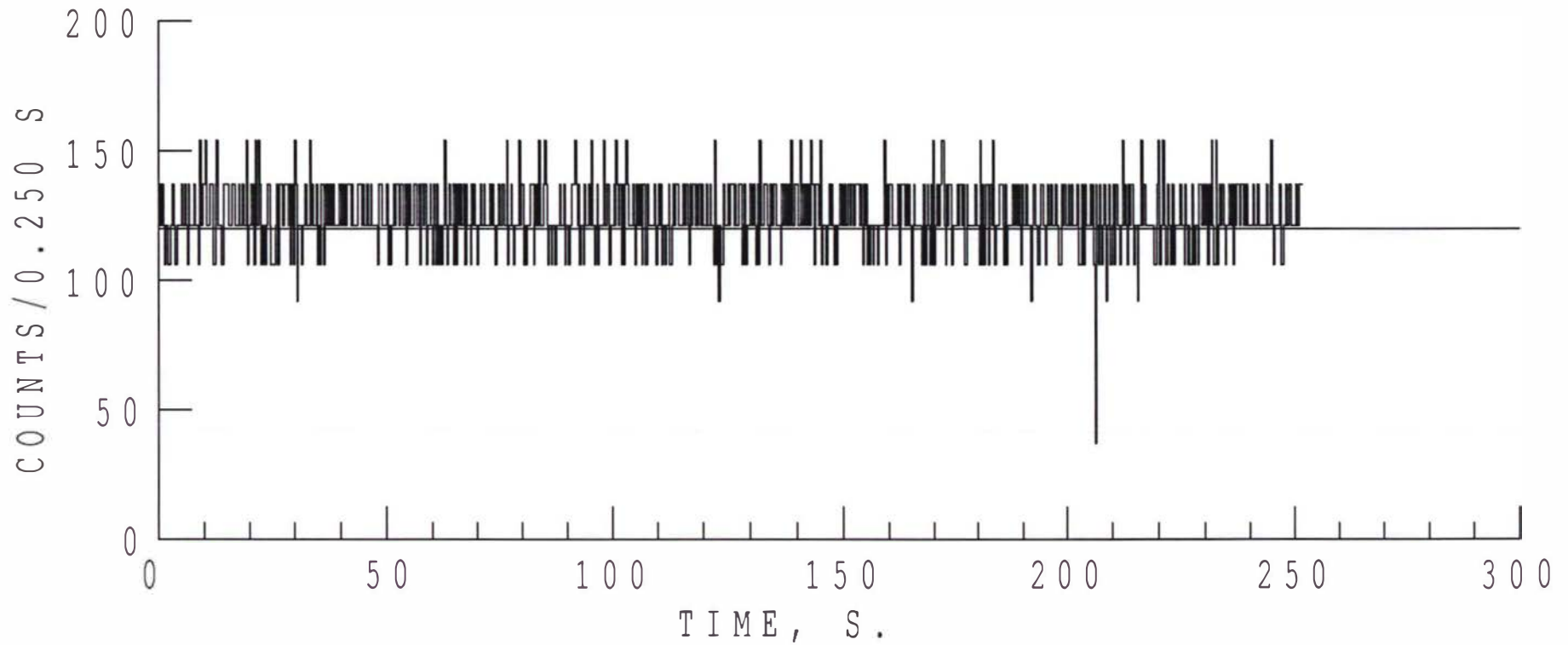
GRB. SHARP RISE TO PRE-EMMISSION AT ~T-30SEC. SPIKEY EVENT. TOTAL DURATION
~150 SEC. MARGINALLY VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3771	950830	9959	37590	6000	330	-65	150

6 / 9 / 95

ULYSSES RT
30 / 8 / 95 38664.246 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



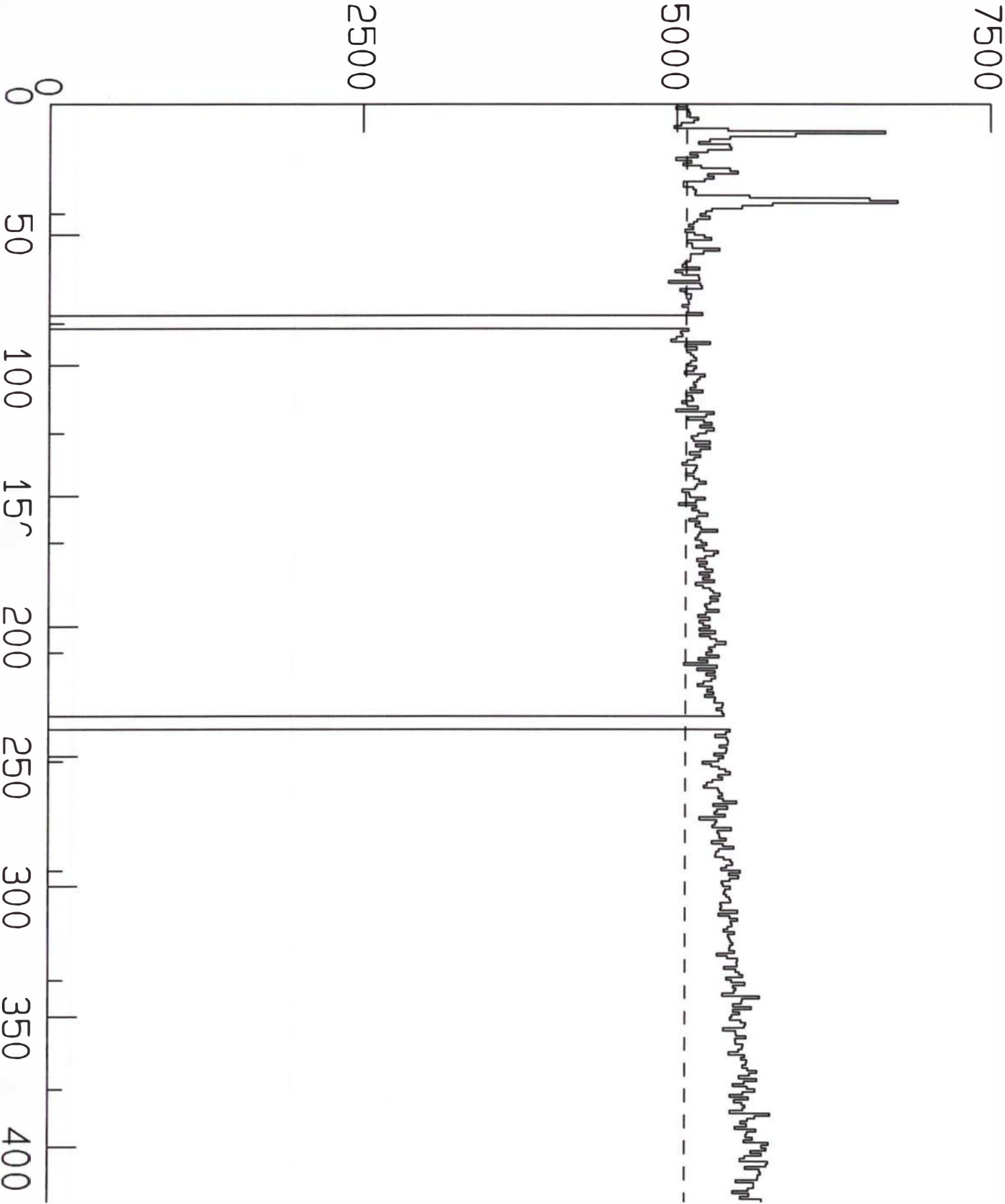
BACODINE

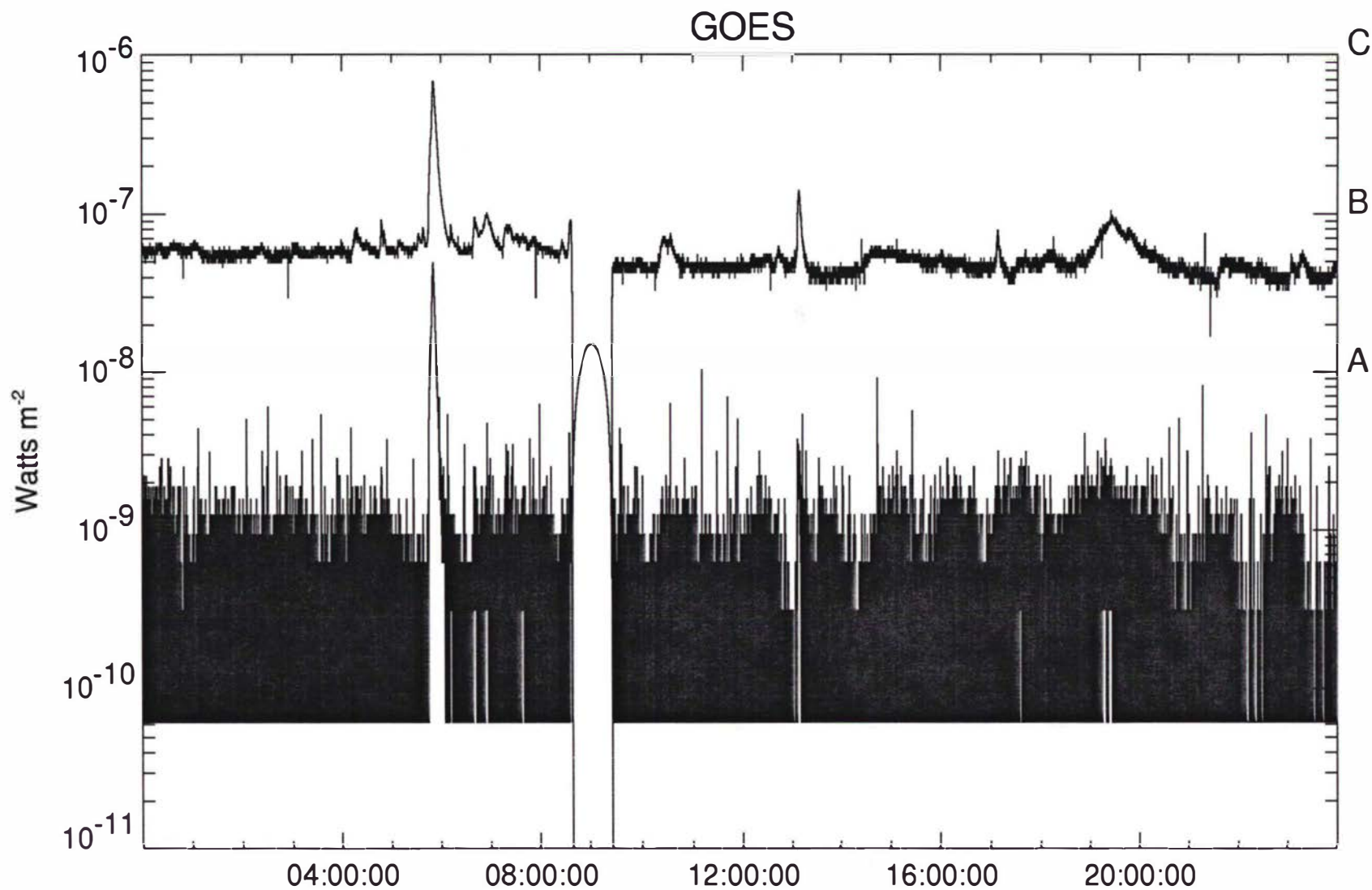
30/08/95

37578.417

25- 100 keV

COUNTS/1.024 S





Data Start: 95/08/30, 0000:01

Plot created: 95/09/01, 0530

Channel

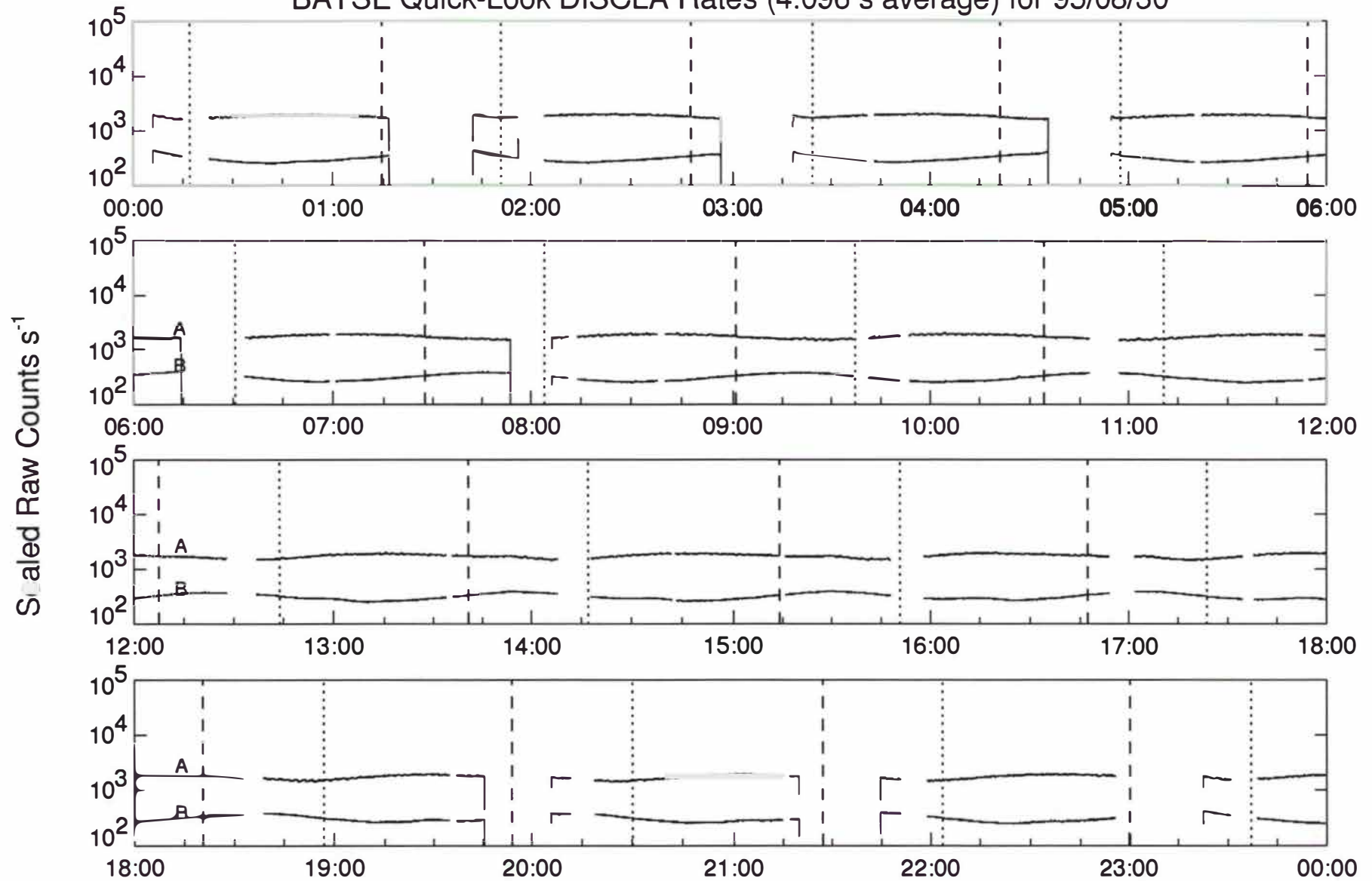
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/08/30



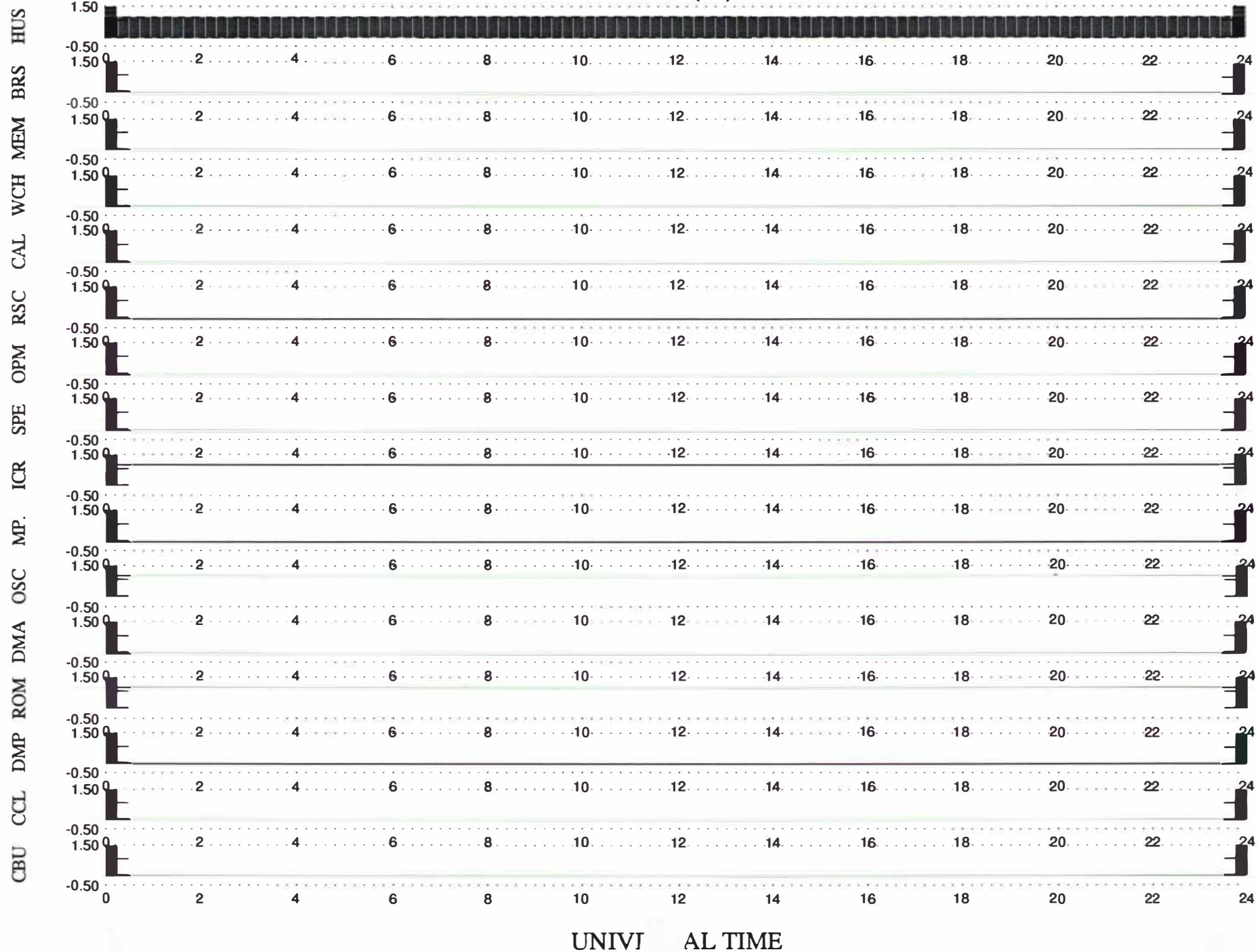
Current Time: 95/09/01, 0531 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

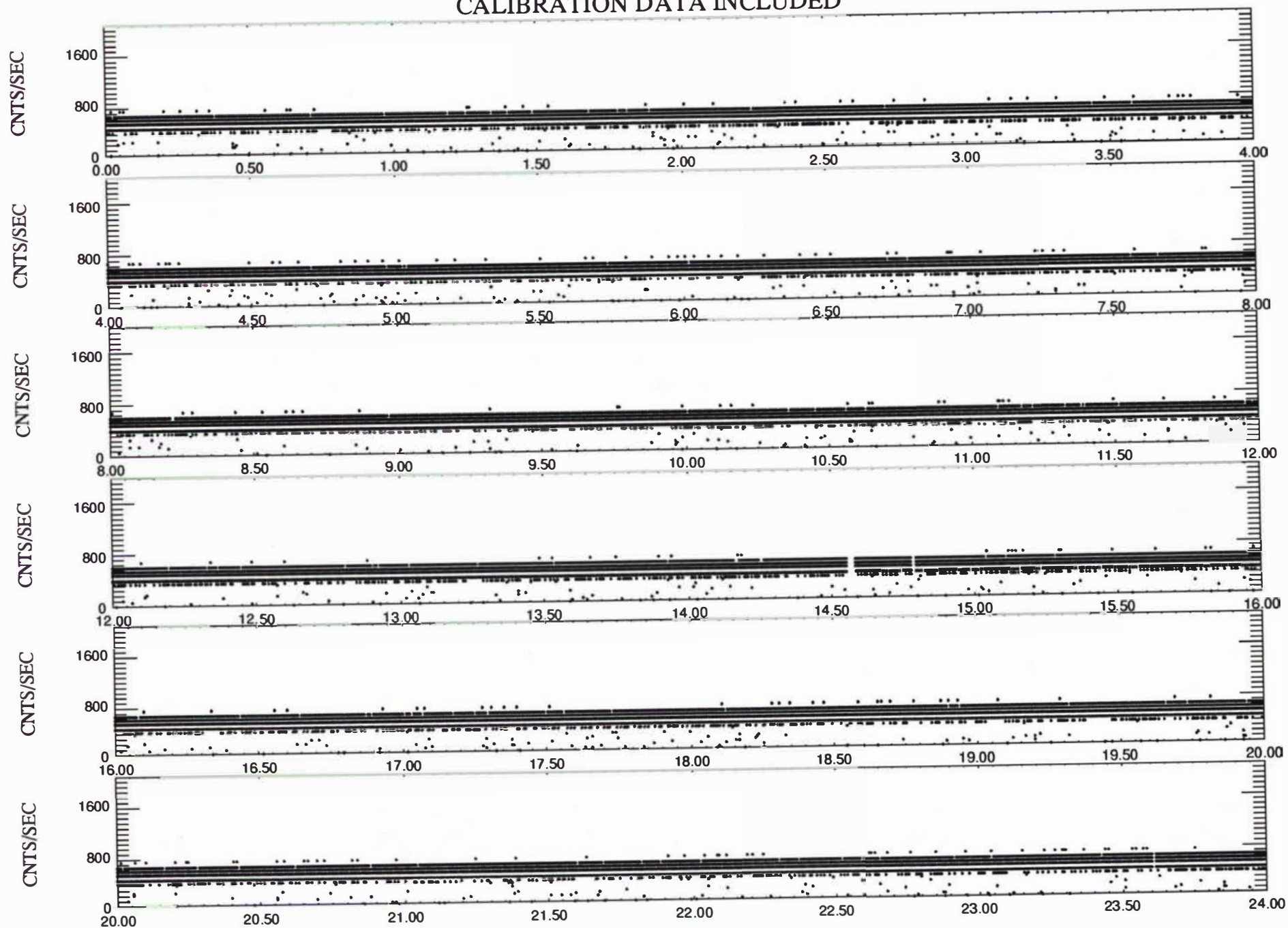
HUS MODES EDR day 242, year 1995 to day 242, year 1995
NO BURST (12)

1/25/96

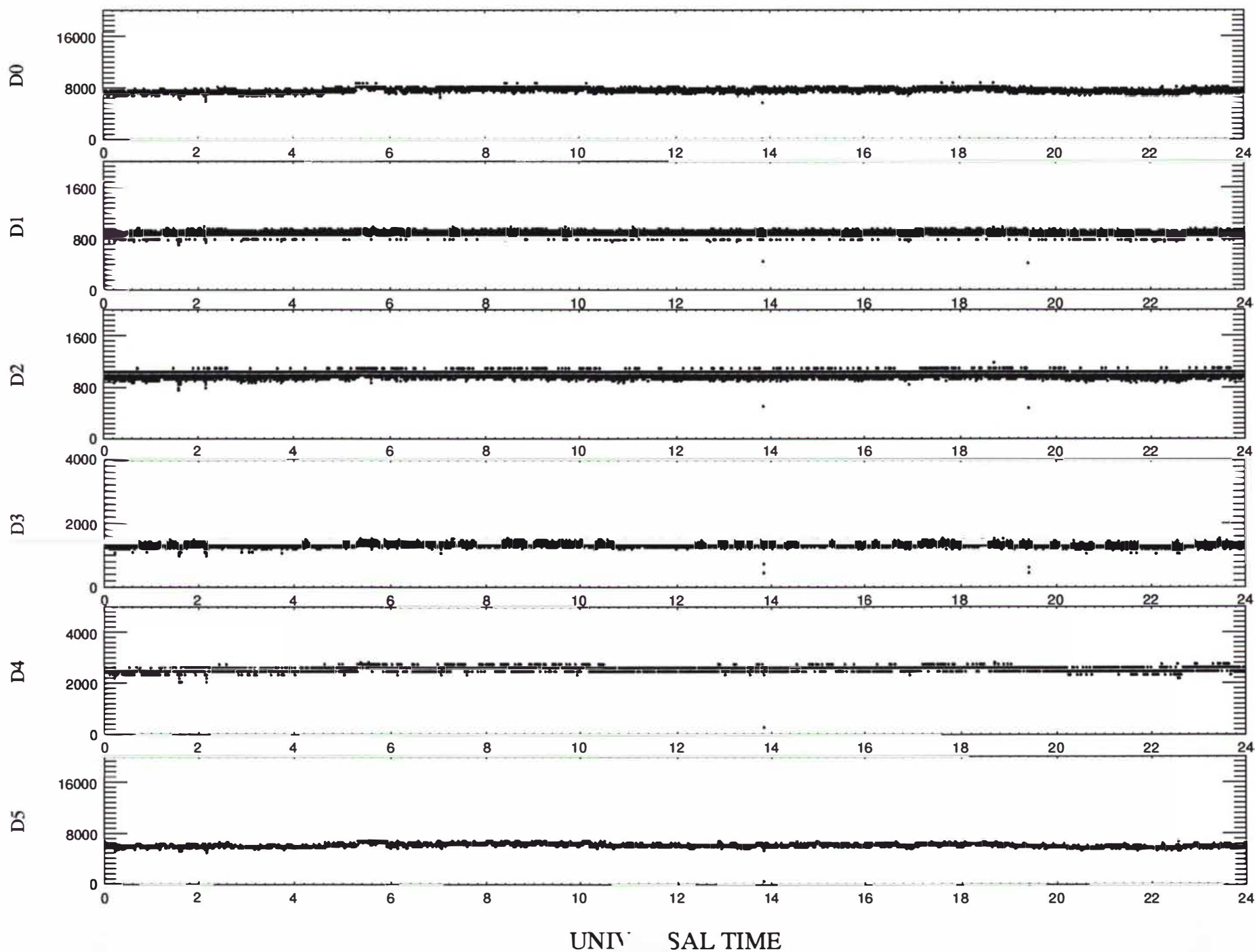


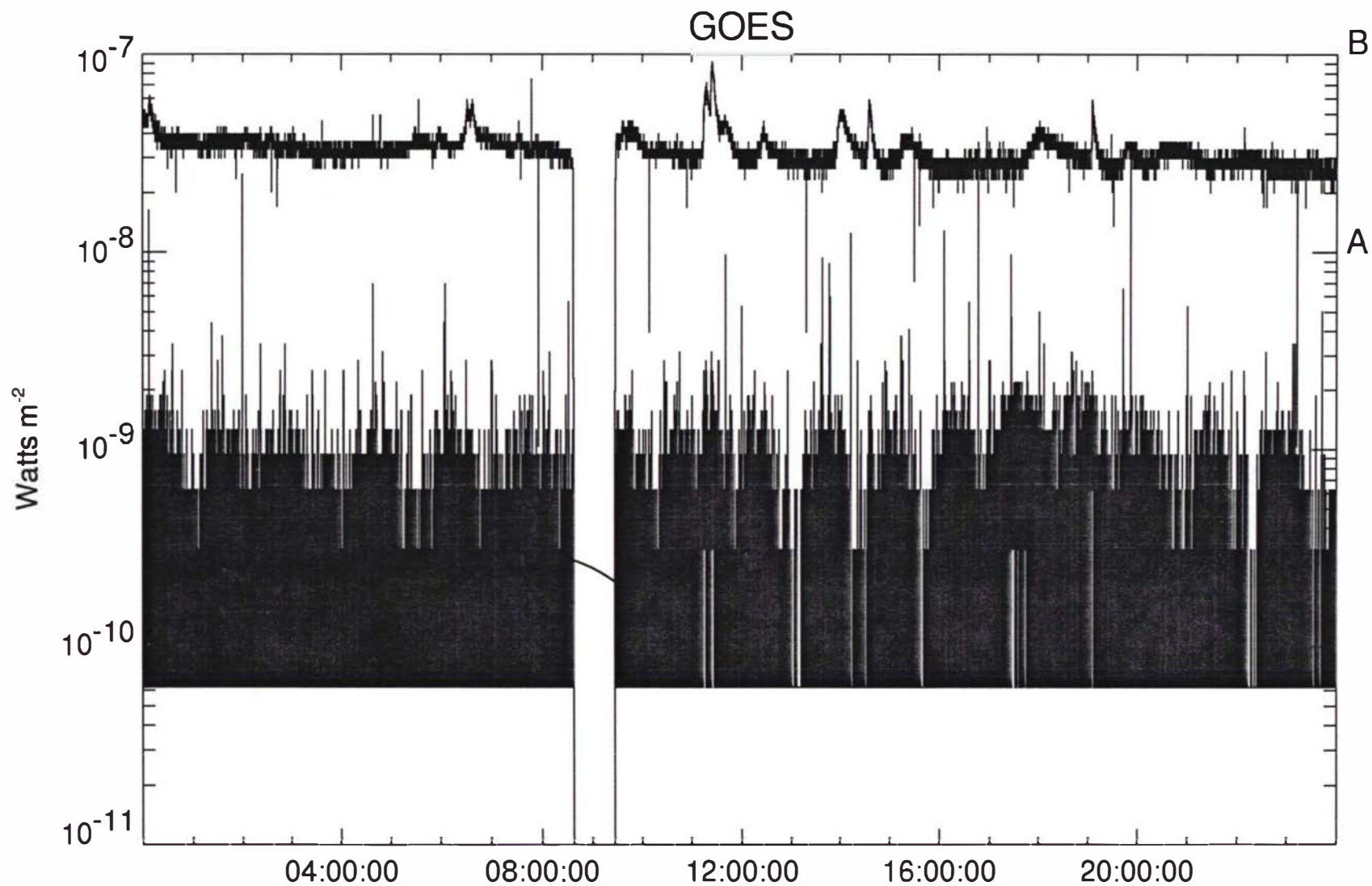
HUS 2A, MODE 1, NOT AVERAGED EDR day 242, year 1995 to day 242, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVERSAL TIME





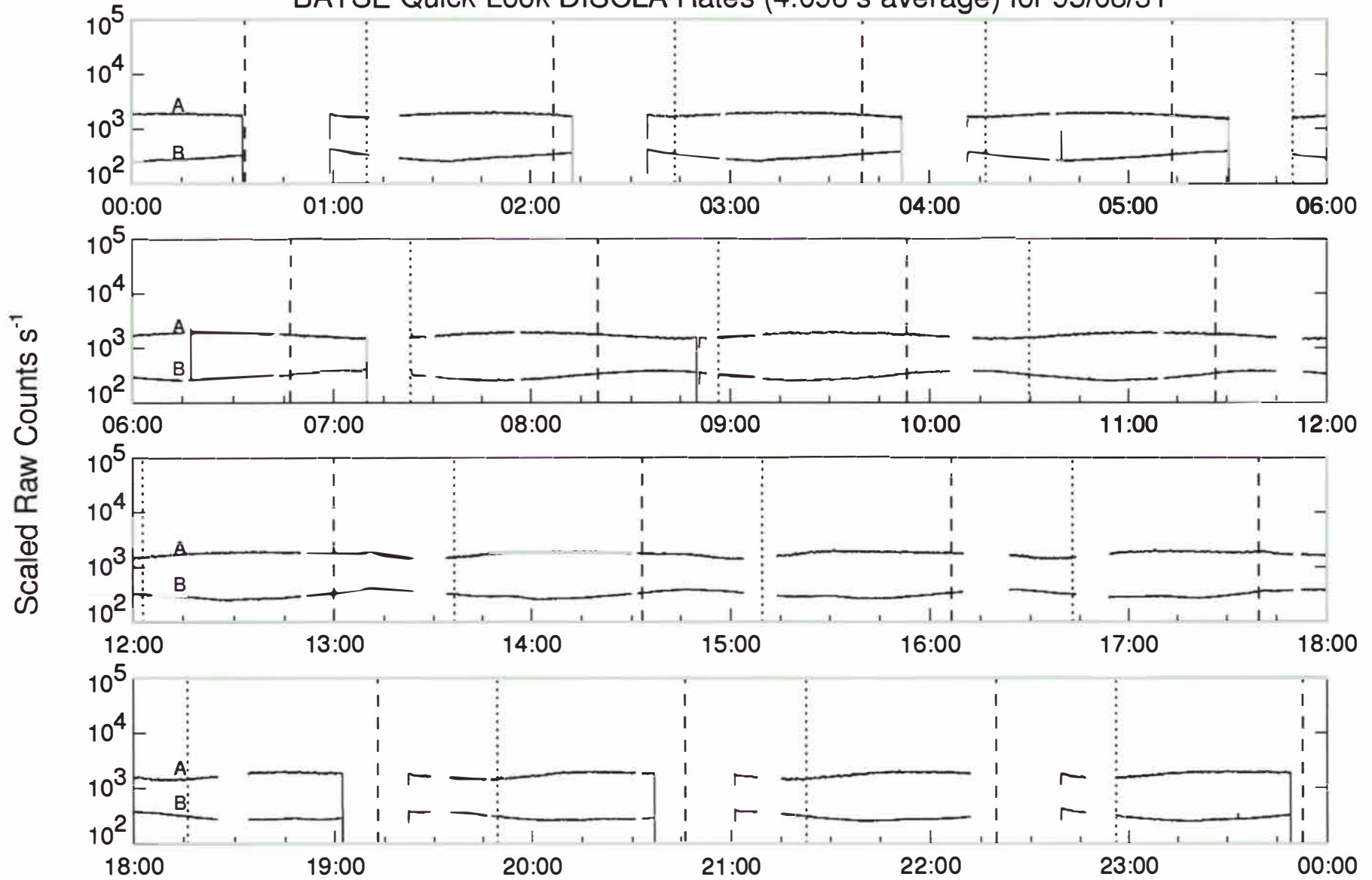
Data Start: 95/08/31, 0000:01

Plot created: 95/09/02, 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 95/08/31



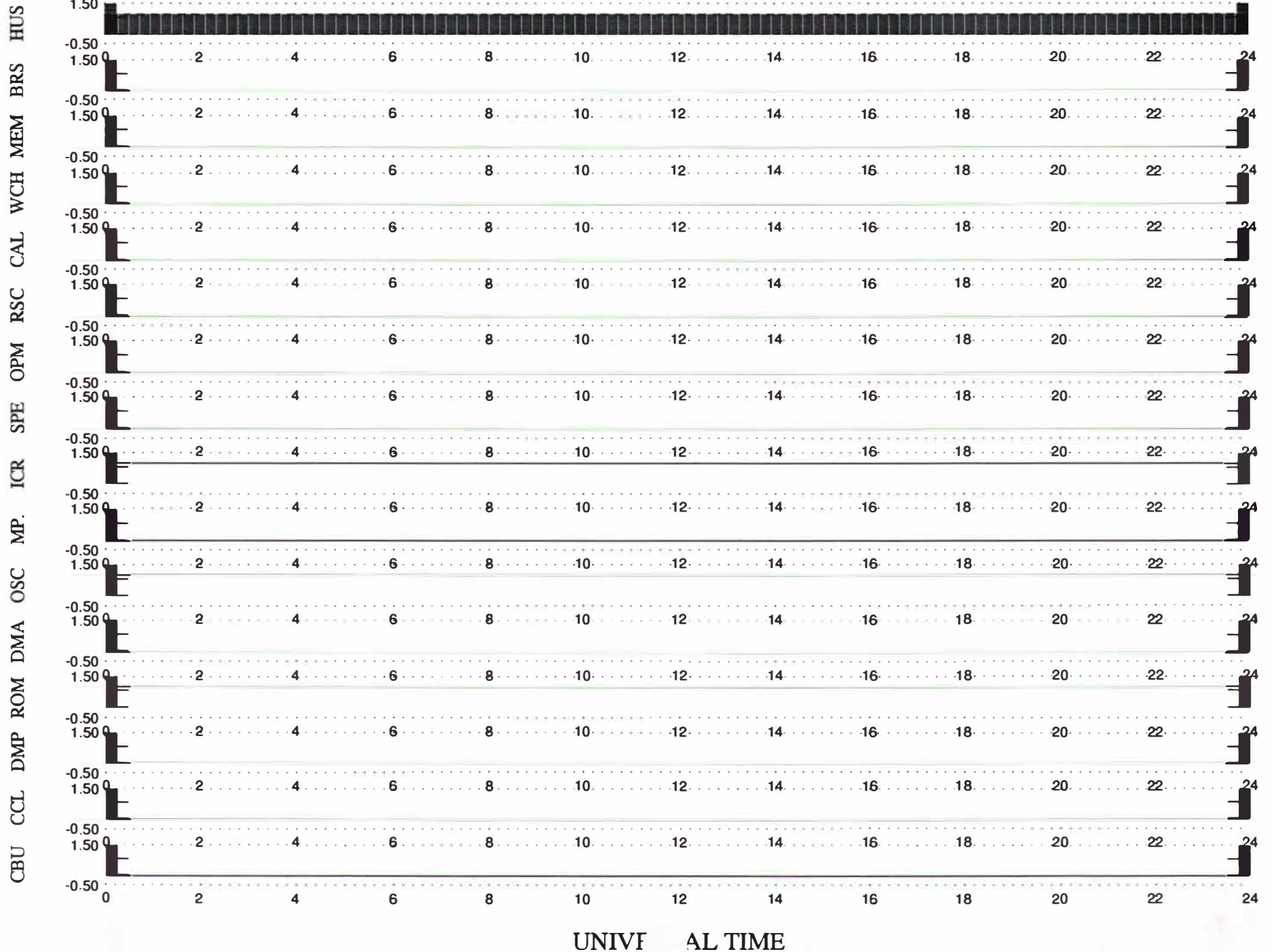
Current Time: 95/09/02, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

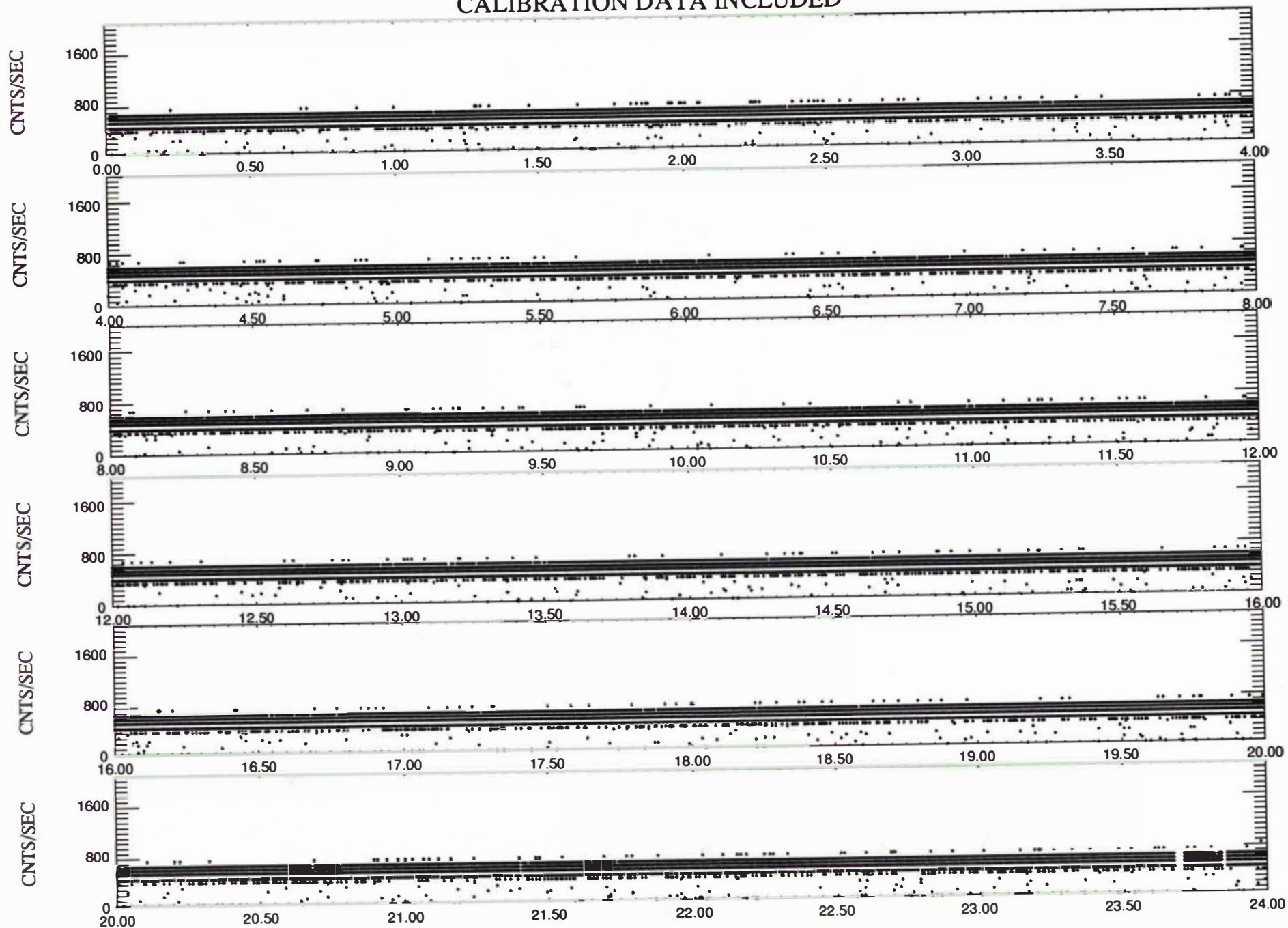
HUS MODES EDR day 243, year 1995 to day 243, year 1995
NO BURST (12)

1/25/96



HUS 2A, MODE 1, NOT AVERAGED EDR day 243, year 1995 to day 243, year 1995
CALIBRATION DATA INCLUDED

1/25/96



UNIVF AL TIME

HUS 2B COUNTS / SEC QEDR day 243, year 1995 to day 243, year 1995

9/1/95

