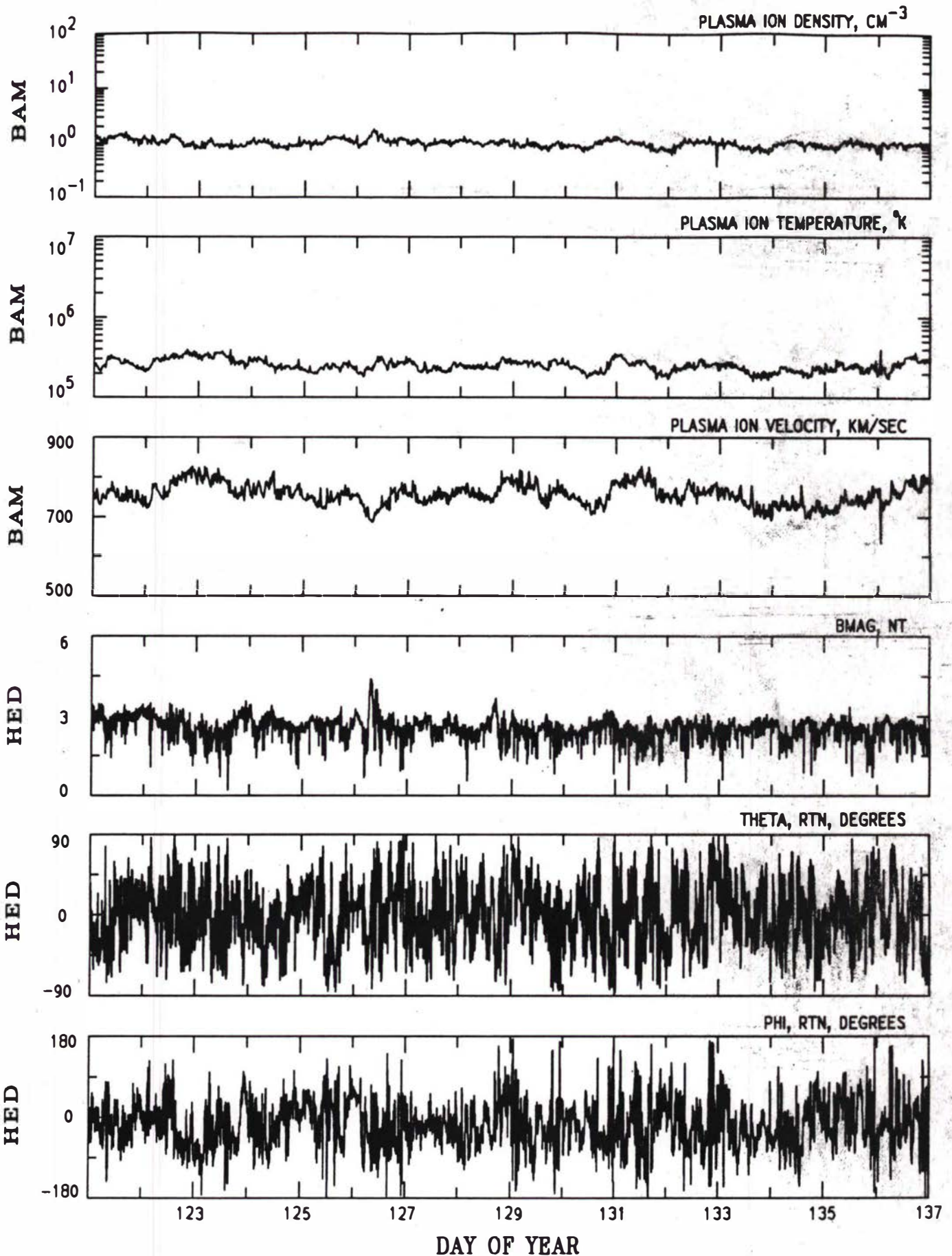


ULYSSES CDR - SOLAR WIND PLASMA AND MAGNETIC FIELD

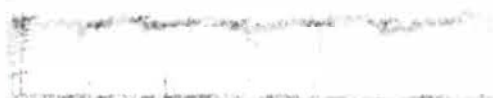
95 121 MAY 1 00:00:00.000 - 95 137 MAY 17 00:00:00.000



GENERAL INFORMATION

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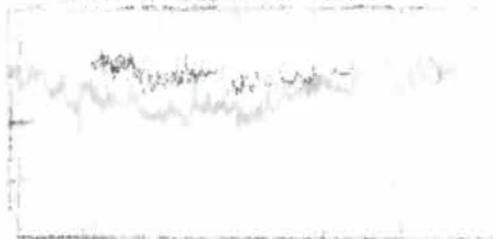
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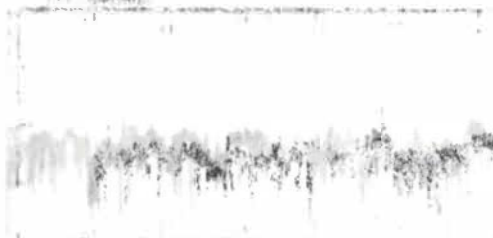
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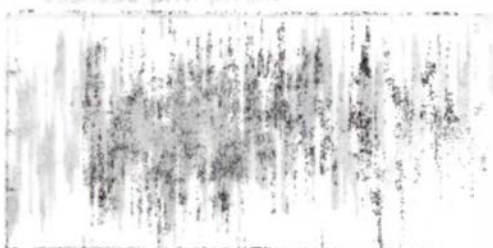
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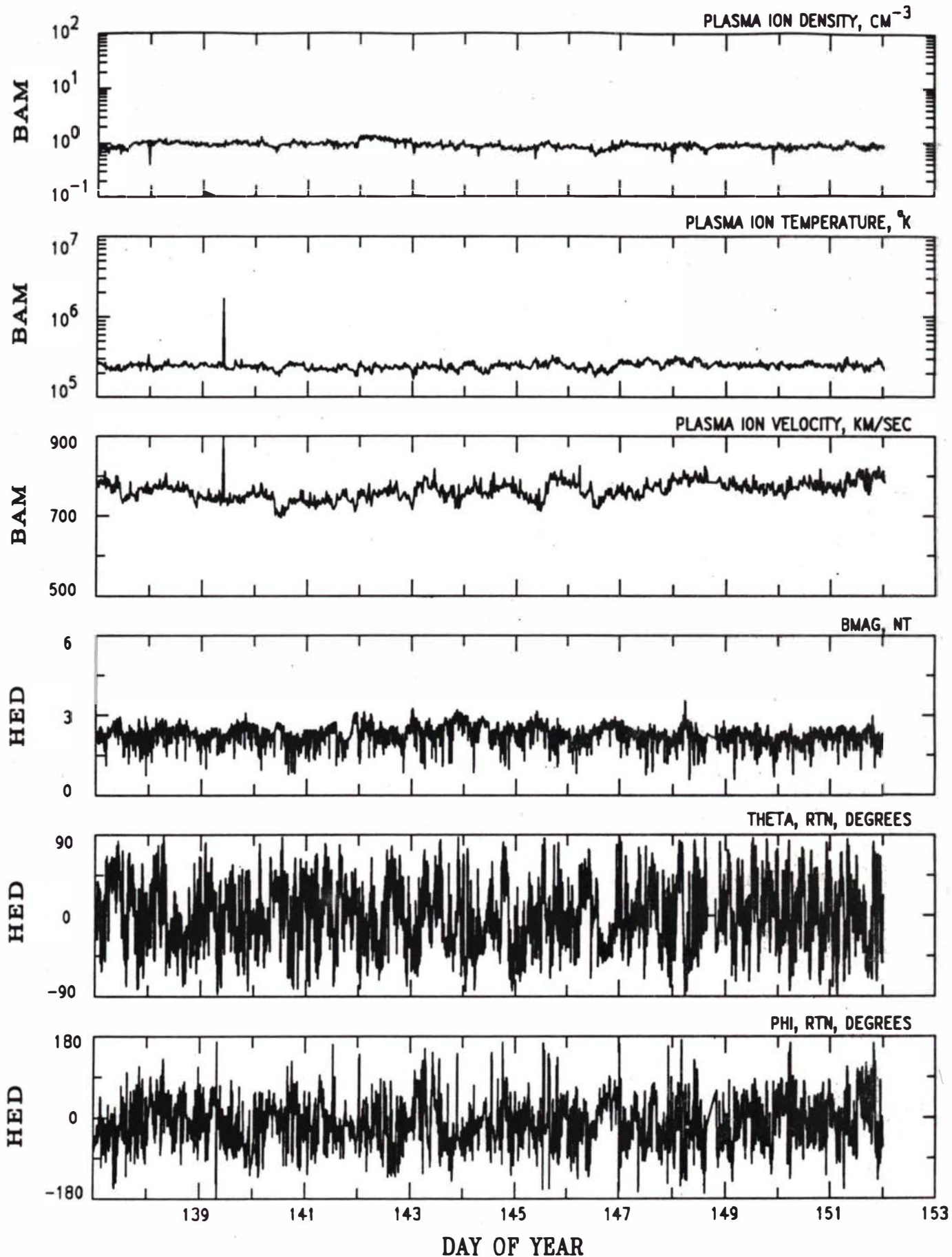


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ULYSSES CDR - SOLAR WIND PLASMA AND MAGNETIC FIELD

95 137 MAY 17 00:00:00.000 - 95 153 JUN 2 00:00:00.000



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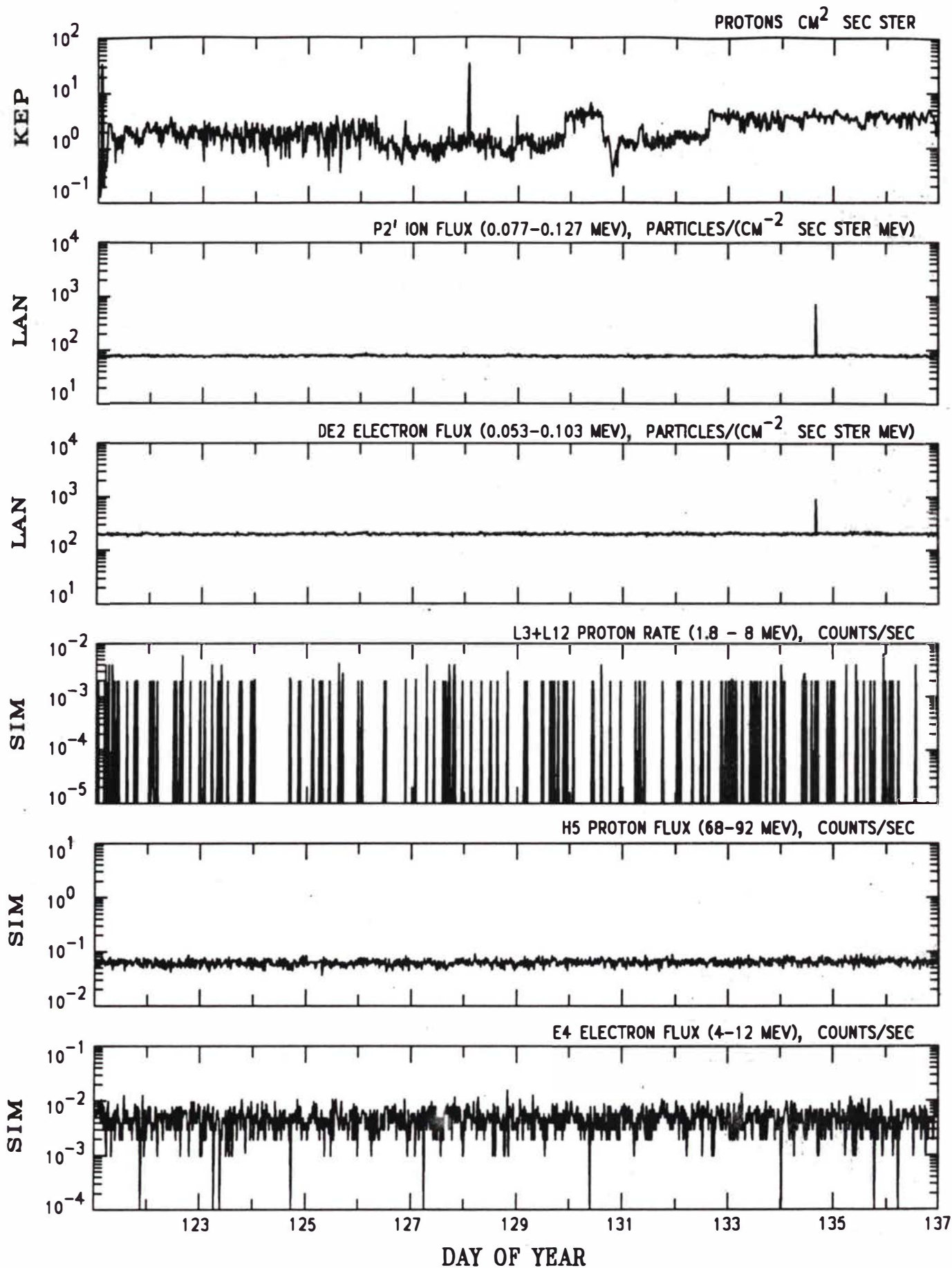
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95 121 MAY 1 00:00:00.000 - 95 137 MAY 17 00:00:00.000



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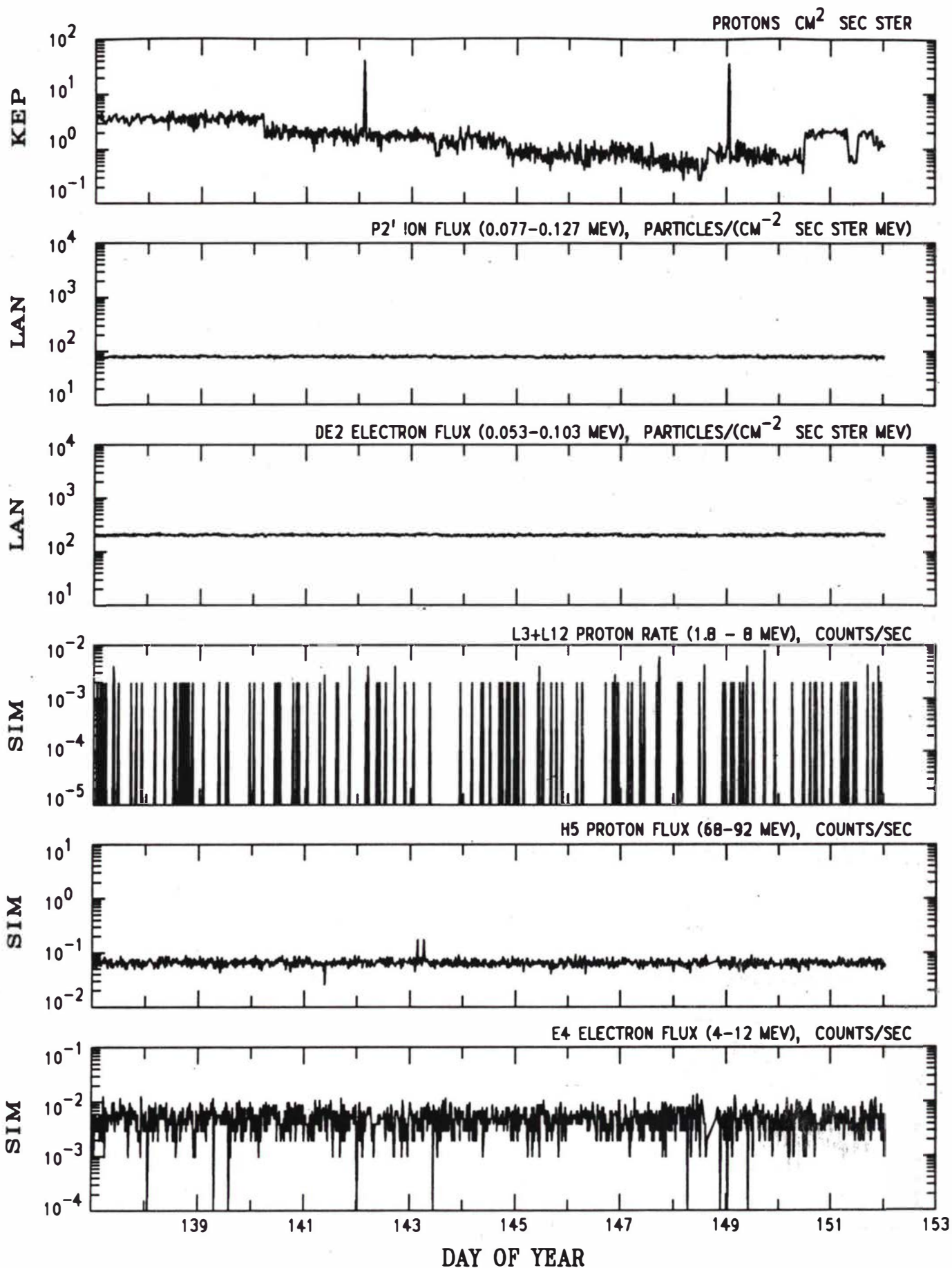
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ULYSSES CDR - ENERGETIC PARTICLES, LOW ENERGY IONS AND COSMIC RAY

95 137 MAY 17 00:00:00.000 - 95 153 JUN 2 00:00:00.000



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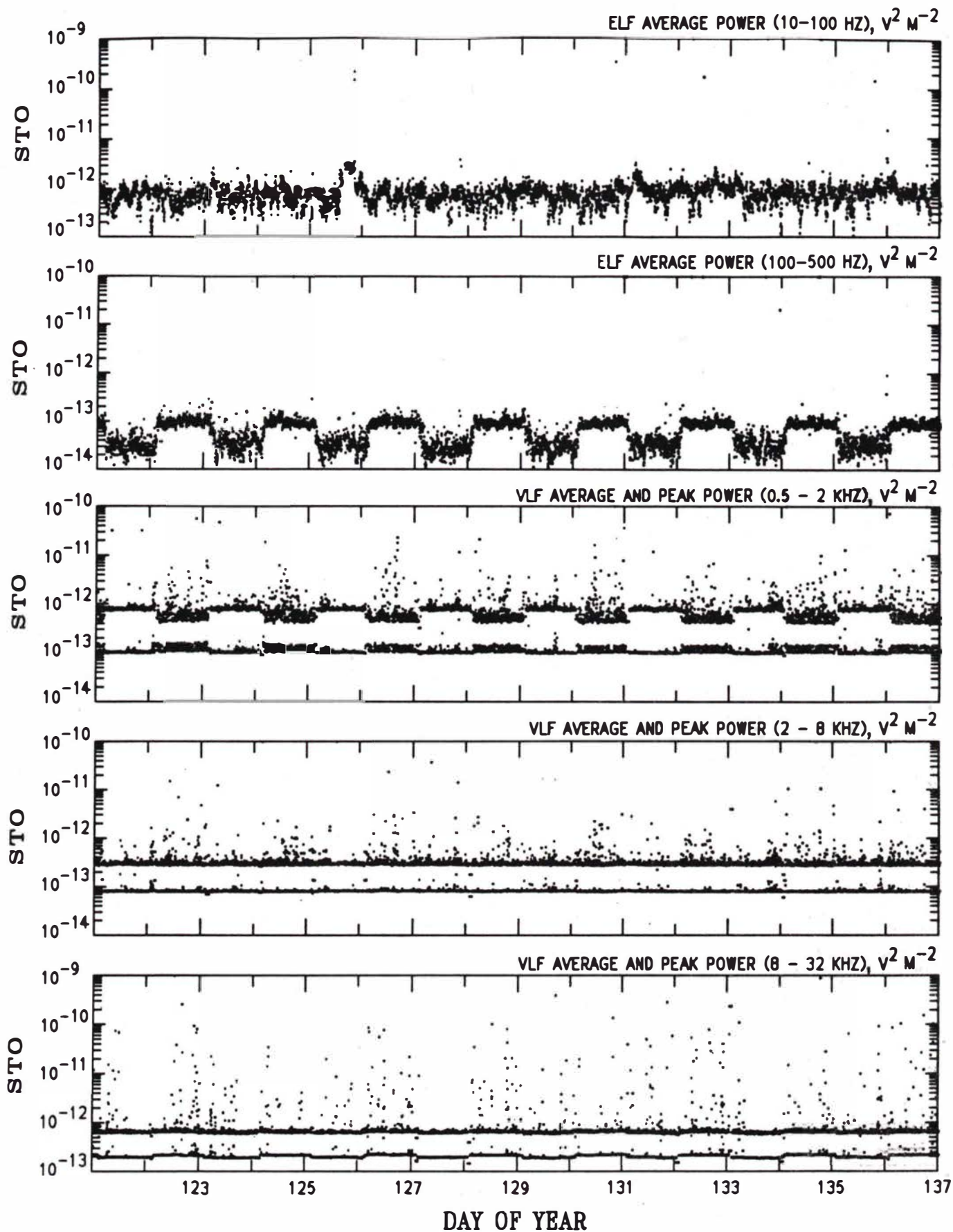
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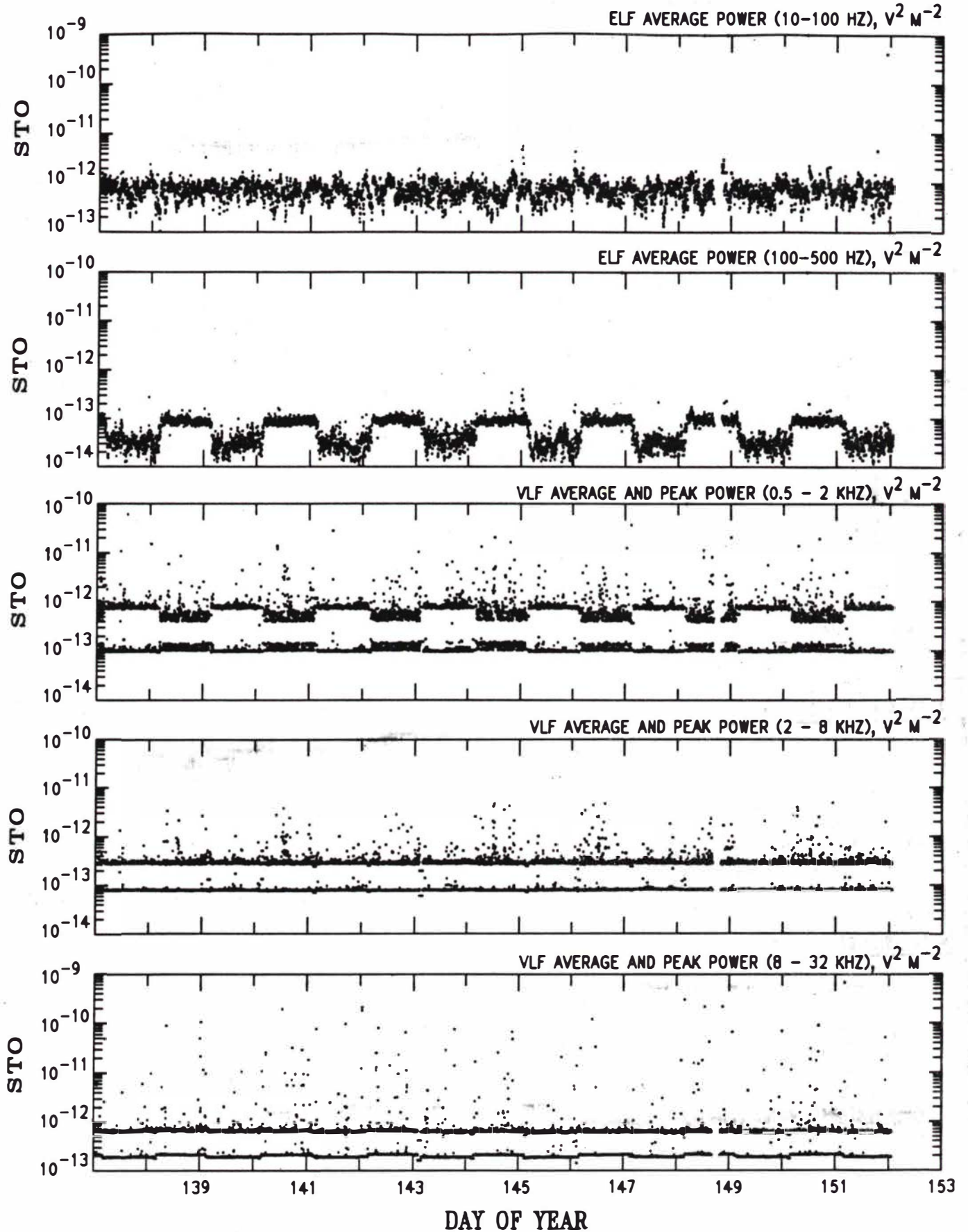
ULYSSES CDR - PLASMA WAVE

95 121 MAY 1 00:00:00.000 - 95 137 MAY 17 00:00:00.000



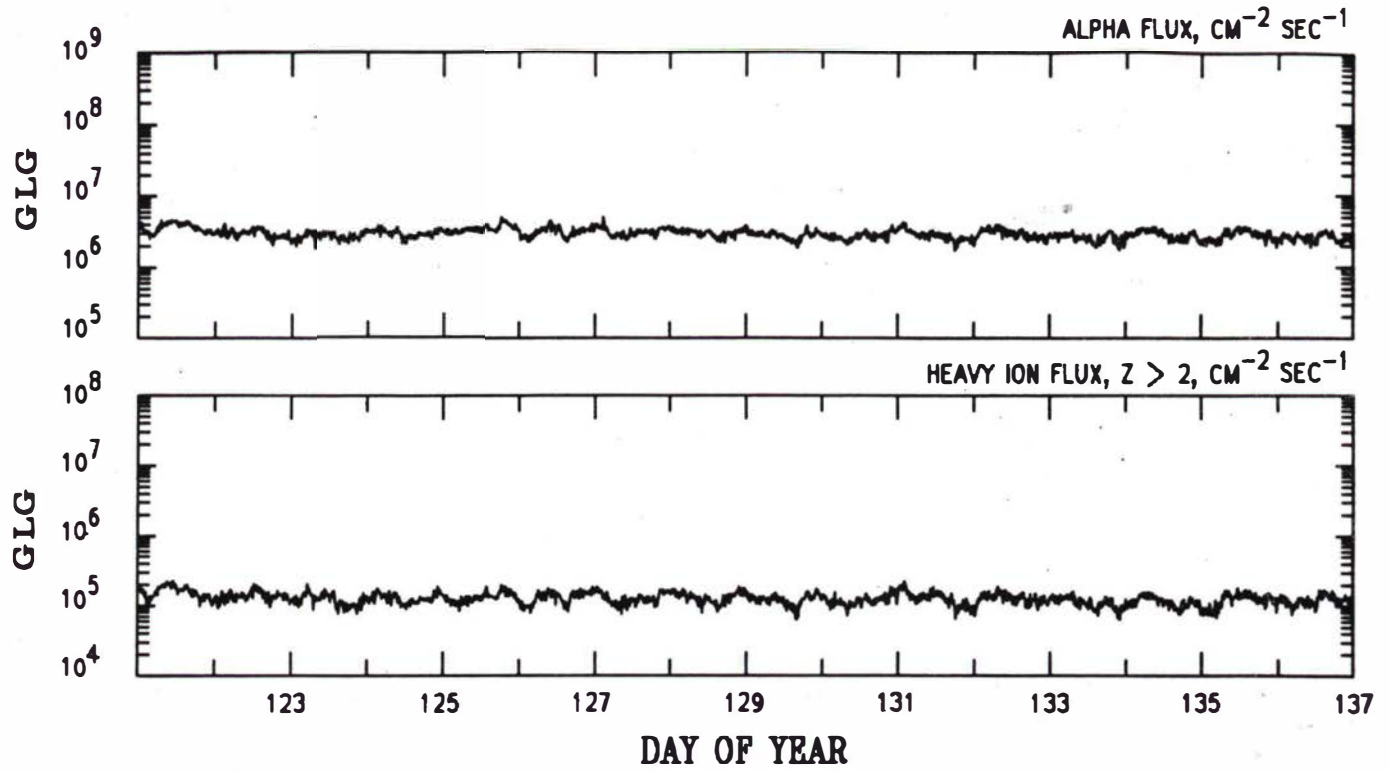
ULYSSES CDR - PLASMA WAVE

95 137 MAY 17 00:00:00.000 - 95 153 JUN 2 00:00:00.000



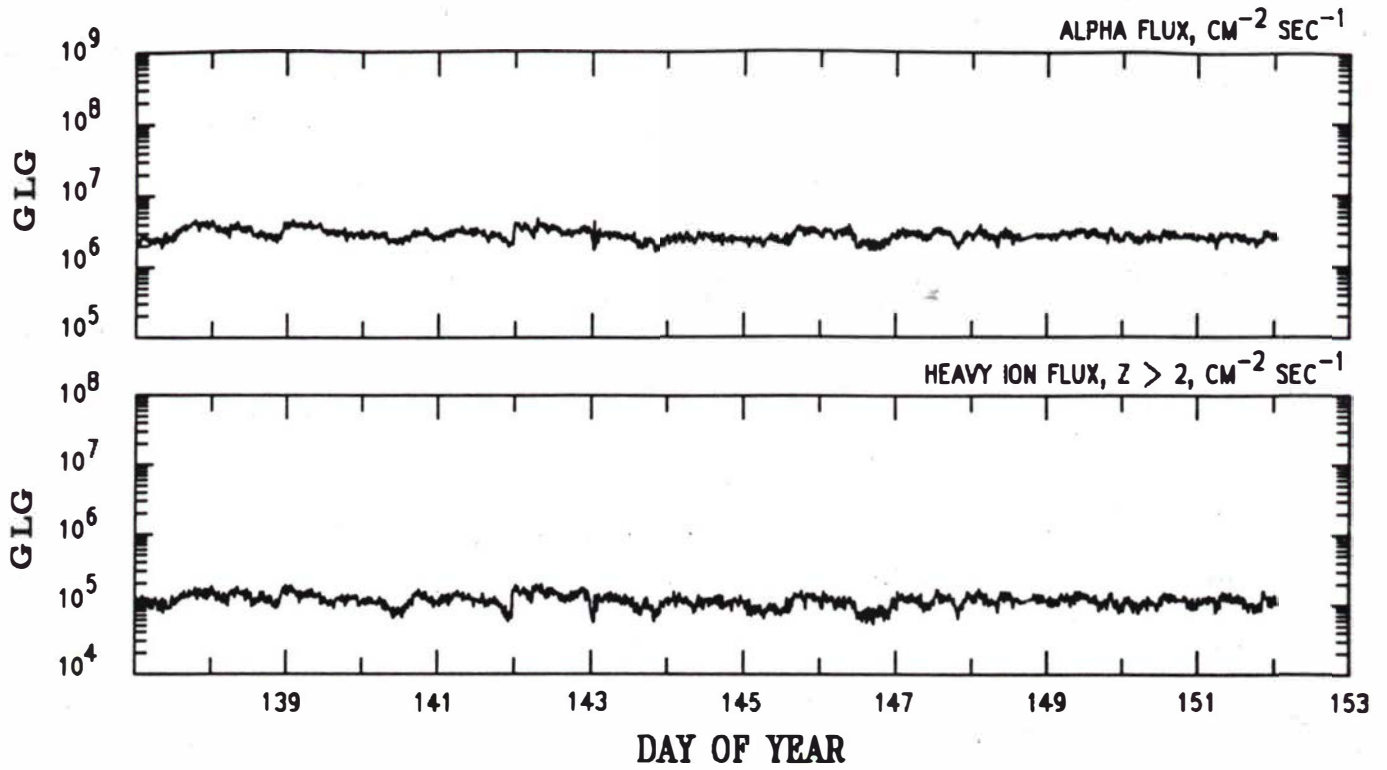
ULYSSES CDR - SOLAR WIND ION COMPOSITION

95 121 MAY 1 00:00:00.000 - 95 137 MAY 17 00:00:00.000



ULYSSES CDR - SOLAR WIND ION COMPOSITION

95 137 MAY 17 00:00:00.000 - 95 153 JUN 2 00:00:00.000



From HAGEDON@fender.msfc.nasa.gov Wed May 3 09:41 PDT 1995
Date: Wed, 3 May 1995 11:41:03 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3529

BATSEARCH PROGRAM

ND

BATSE BURST # 3529
EVENT OF 1995 MAY 1 DAY OF YEAR=121
EVENT CROSSING TIME AT BATSE : 12304. S. OR 03:25:04.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 297.000 28.000
BATSE PEAK COUNTING RATE: 1400 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 1/ 5/ 95 IS:
RA= 359.403 DEC= 25.694 DIST= 2.125 AU
BATSE-ULYSSES DISTANCE = 317908953. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=124.90 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -606.69 SECS.
CROSSING TIME AT ULYSSES IS 11697. S. OR 03:14:57 +/- 191.79 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 1/ 5/ 95 IS:
RA= 143.275 DEC= 16.764 DIST= 1.149 AU
MARS-BATSE DISTANCE = 171932832. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 51.49 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 357.10 SECS.
CROSSING TIME AT MARS IS 12661. S. OR 03:31:01 +/- 83.34 SECONDS

BATSE BURST TRIGGER

NO.: 3529

TIME: TJD=9838 SECONDS=12304

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=91 AZIMUTH=261 ERROR= DEGREES

COMMENTS:

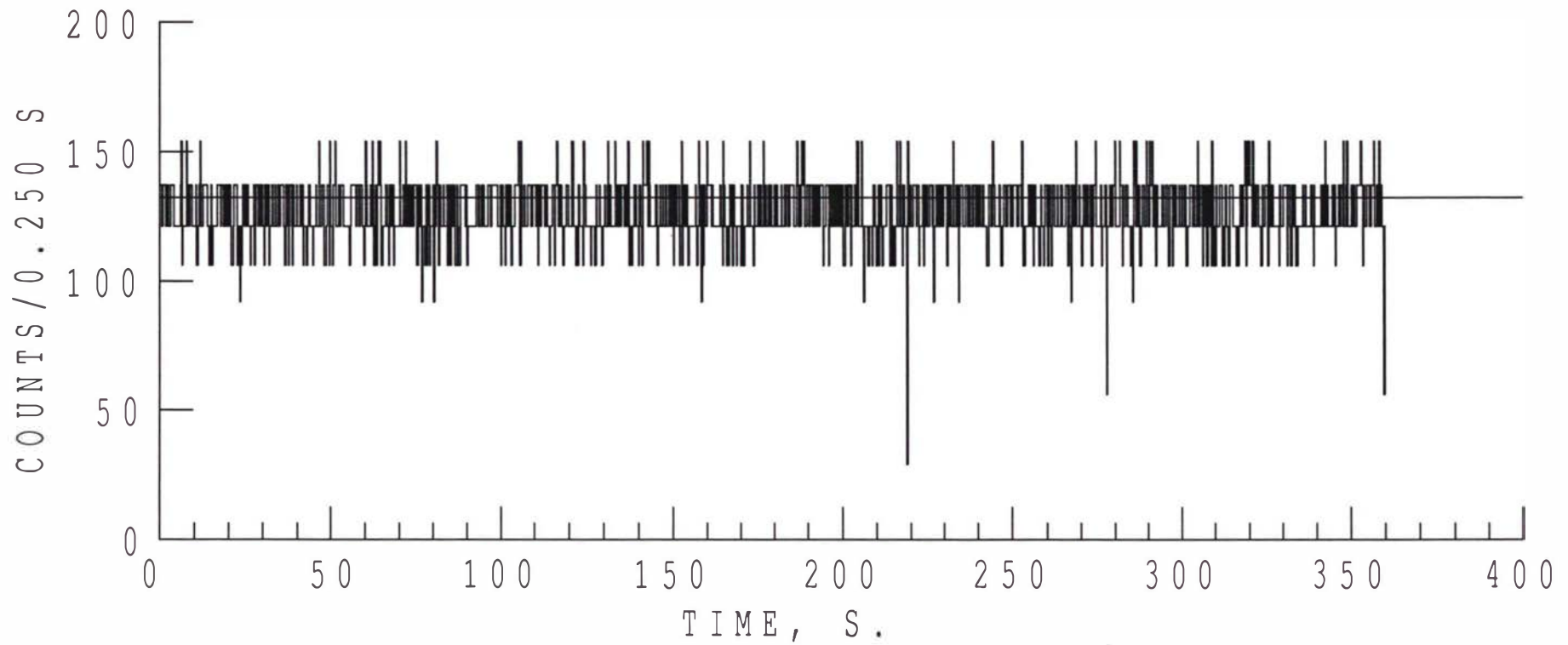
BURST. SINGLE PULSE, FASTER RISE THAN DECAY. DUR.~40 SEC.
NOT VISIBLE ABOVE 300 KEV.

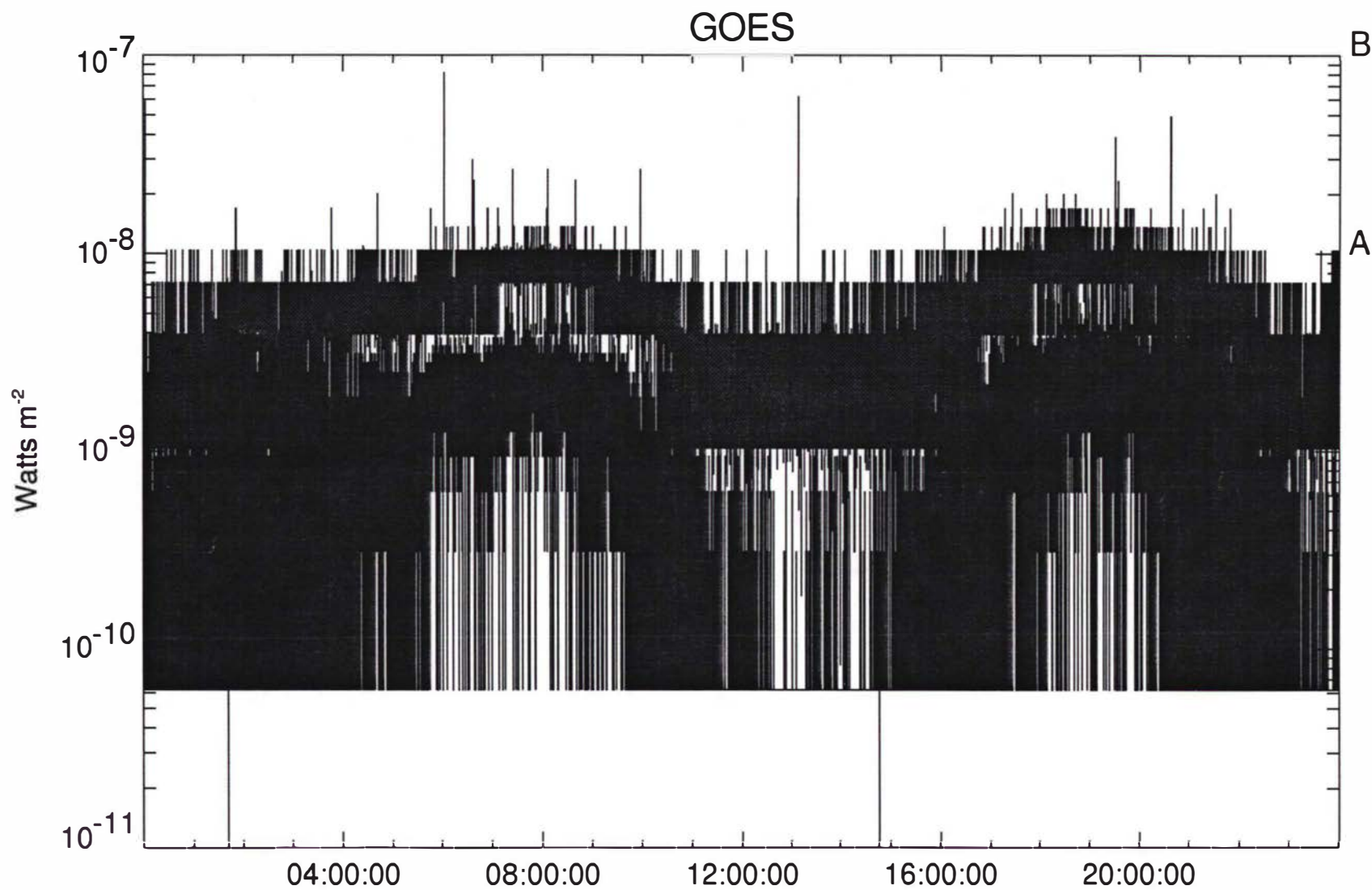
BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3529	950501	9838	12304	1400	297	+28	40

3 / 5 / 95

ULYSSES RT
1 / 5 / 95 11520.043 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





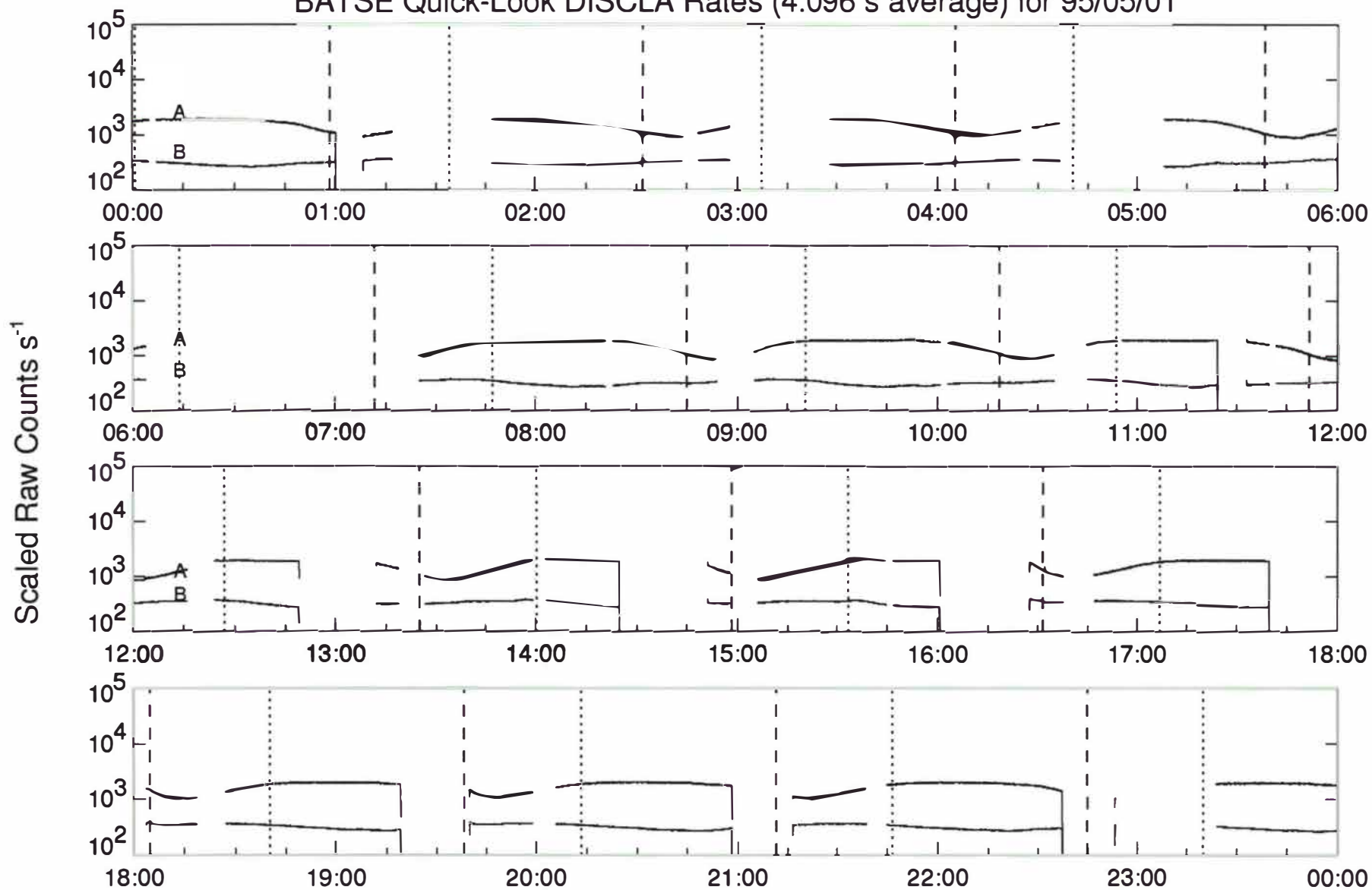
Data Start: 95/05/01, 0000:02

Plot created: 95/05/03, 1449

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 95/05/01



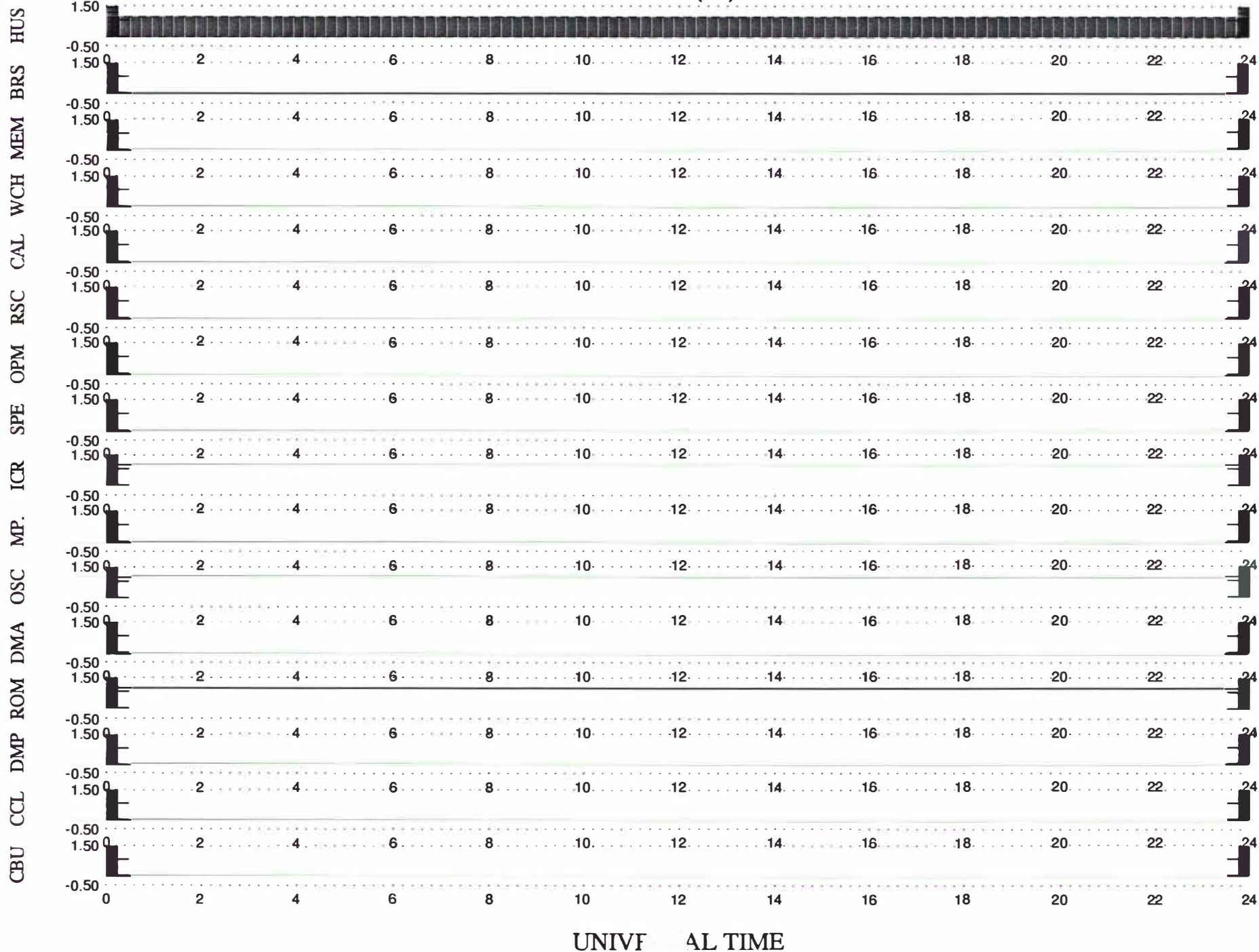
Current Time: 95/05/03, 1450 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

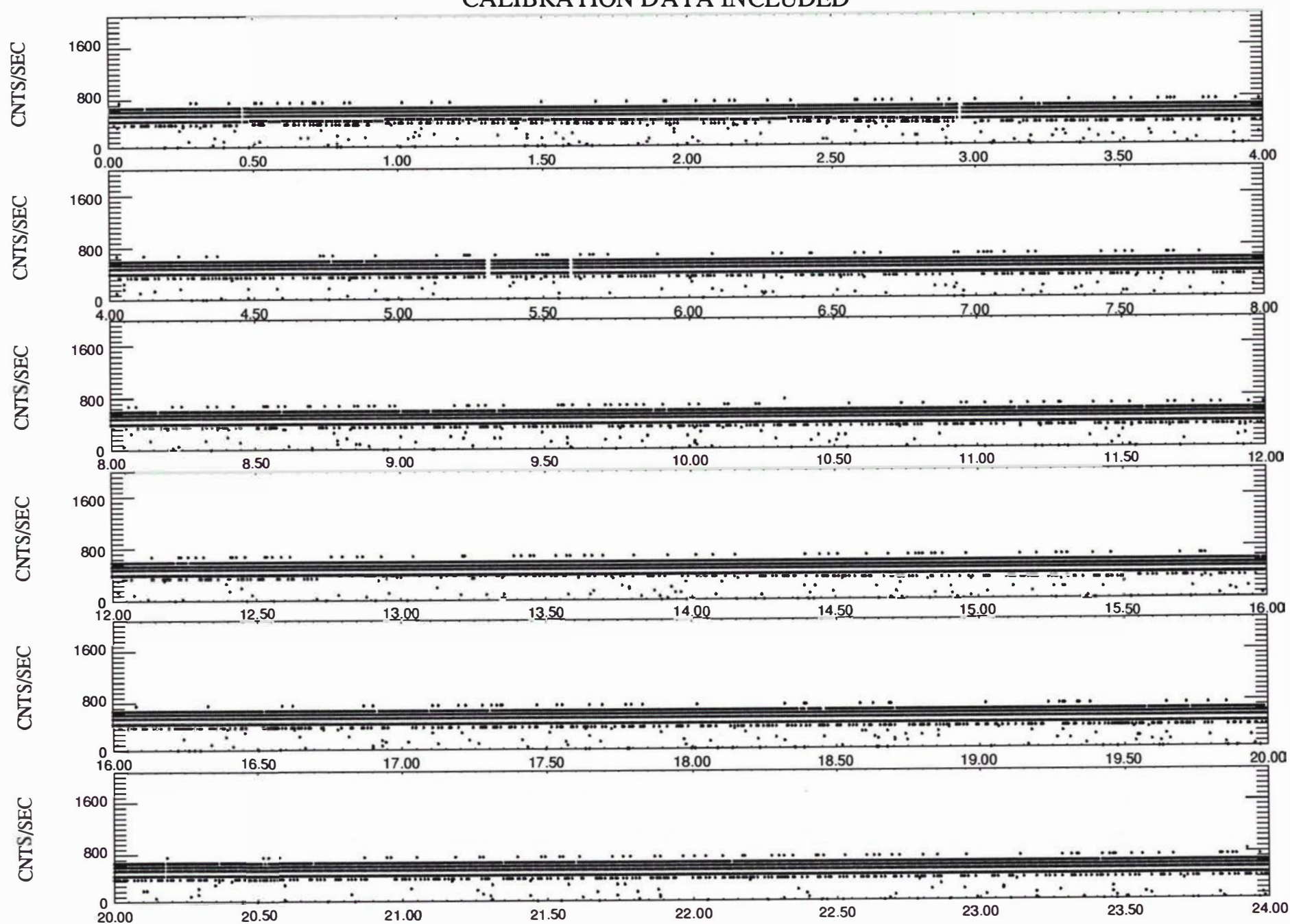
HUS MODES EDR day 121, year 1995 to day 121, year 1995
NO BURST (15)

11/21/95

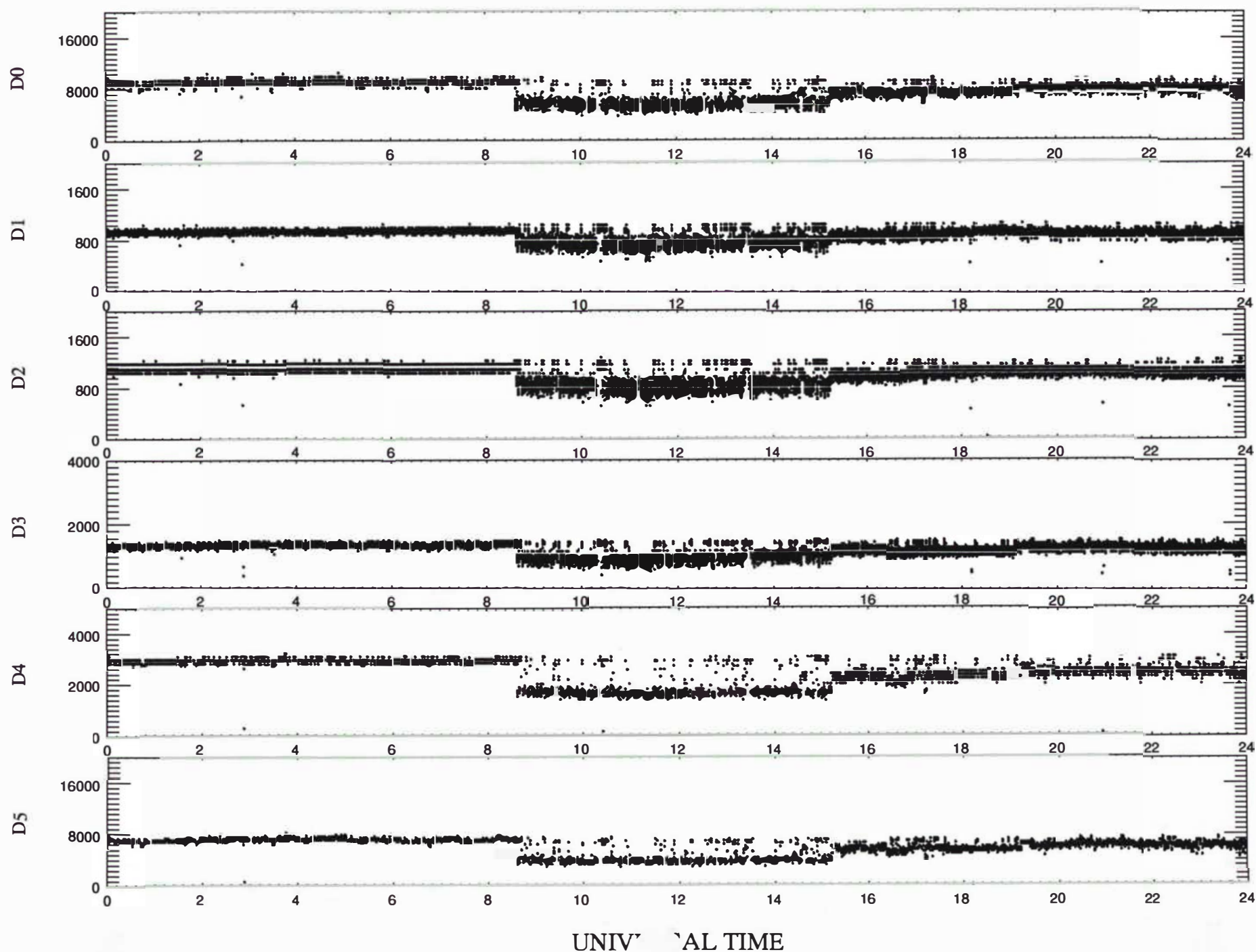


HUS 2A, MODE 1, NOT AVERAGED EDR day 121, year 1995 to day 121, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIVF AL TIME



From HAGEDON@fender.msfc.nasa.gov Thu May 4 09:39 PDT 1995
Date: Thu, 4 May 1995 11:39:10 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3530

BATSEARCH PROGRAM

NO

BATSE BURST # 3530
EVENT OF 1995 MAY 2 DAY OF YEAR=122
EVENT CROSSING TIME AT BATSE : 6405. S. OR 01:46:45.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 165.000 -28.000
BATSE PEAK COUNTING RATE: 5200 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 2/ 5/ 95 IS:
RA= 359.700 DEC= 26.372 DIST= 2.121 AU
BATSE-ULYSSES DISTANCE = 317255597. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 13.17 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 1030.42 SECS.
CROSSING TIME AT ULYSSES IS 7435. S. OR 02:03:55 +/- 107.51 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 2/ 5/ 95 IS:
RA= 143.600 DEC= 16.629 DIST= 1.158 AU
MARS-BATSE DISTANCE = 173238784. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=130.79 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -377.54 SECS.
CROSSING TIME AT MARS IS 6027. S. OR 01:40:27 +/- 70.22 SECONDS

BATSE BURST TRIGGER

NO.: 3530

TIME: TJD=9839 SECONDS=06405

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=74 AZIMUTH=120 ERROR= DEGREES

COMMENTS:

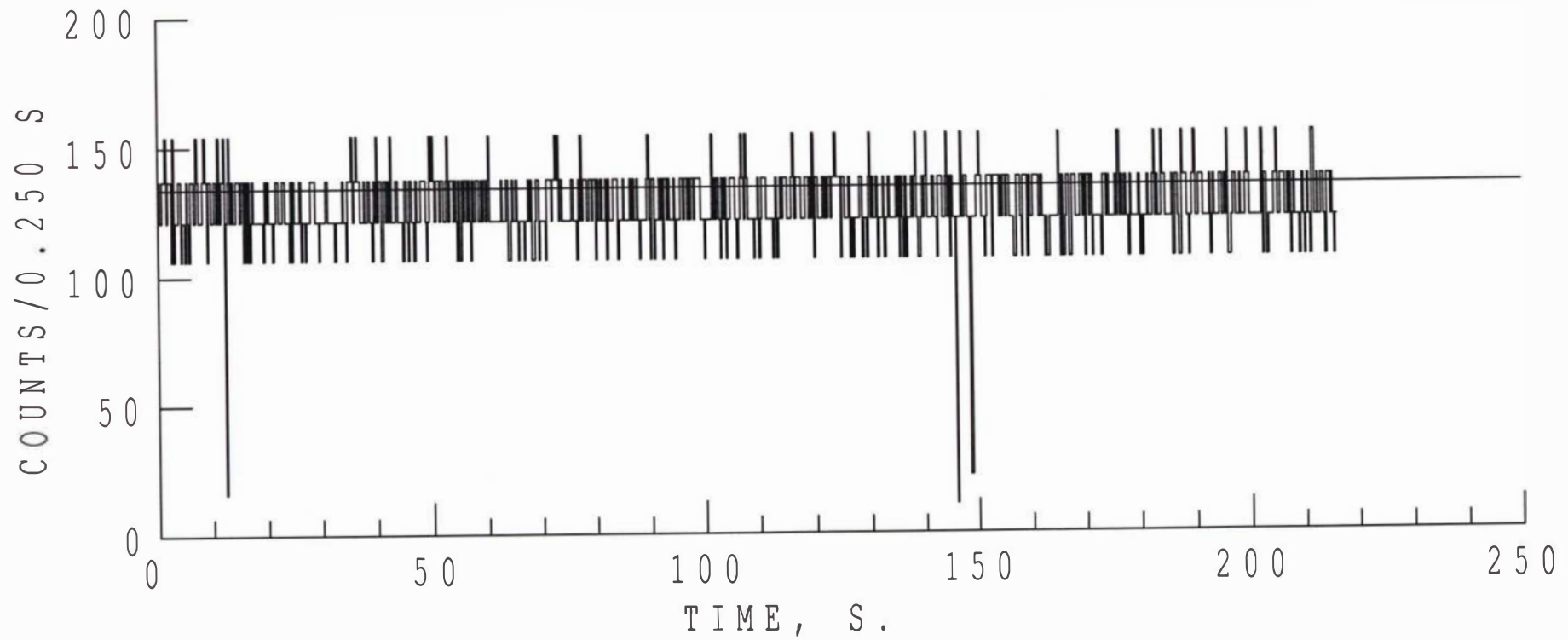
BURST. SHORT SINGLE PULSE WITH SUBSTRUCTURE. DUR.~2 SEC. NOT VISIBLE
ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3530	950502	9839	06405	5200	165	-28	2

4 / 5 / 95

ULYSSES RT
2 / 5 / 95 7344.035 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From HAGEDON@ssl.msfc.nasa.gov Thu May 4 09:37 PDT 1995
Date: Thu, 4 May 1995 11:37:00 -0500 (CDT)
From: HAGEDON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3531

TIME: TJD=9839 SECONDS=47761

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HENZE@ssl.msfc.nasa.gov Wed May 3 09:44 PDT 1995
Date: Wed, 3 May 1995 11:44:12 -0500 (CDT)
From: HENZE@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03532

TIME: TJD=9839 SECONDS=66606

TYPE: PARTICL

SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

From HENZE@SSLLES.MSFC.NASA.GOV Wed May 3 09:48 PDT 1995
Date: Wed, 3 May 1995 11:47:46 -0500 (CDT)
From: HENZE@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03533

TIME: TJD=9839 SECONDS=78750

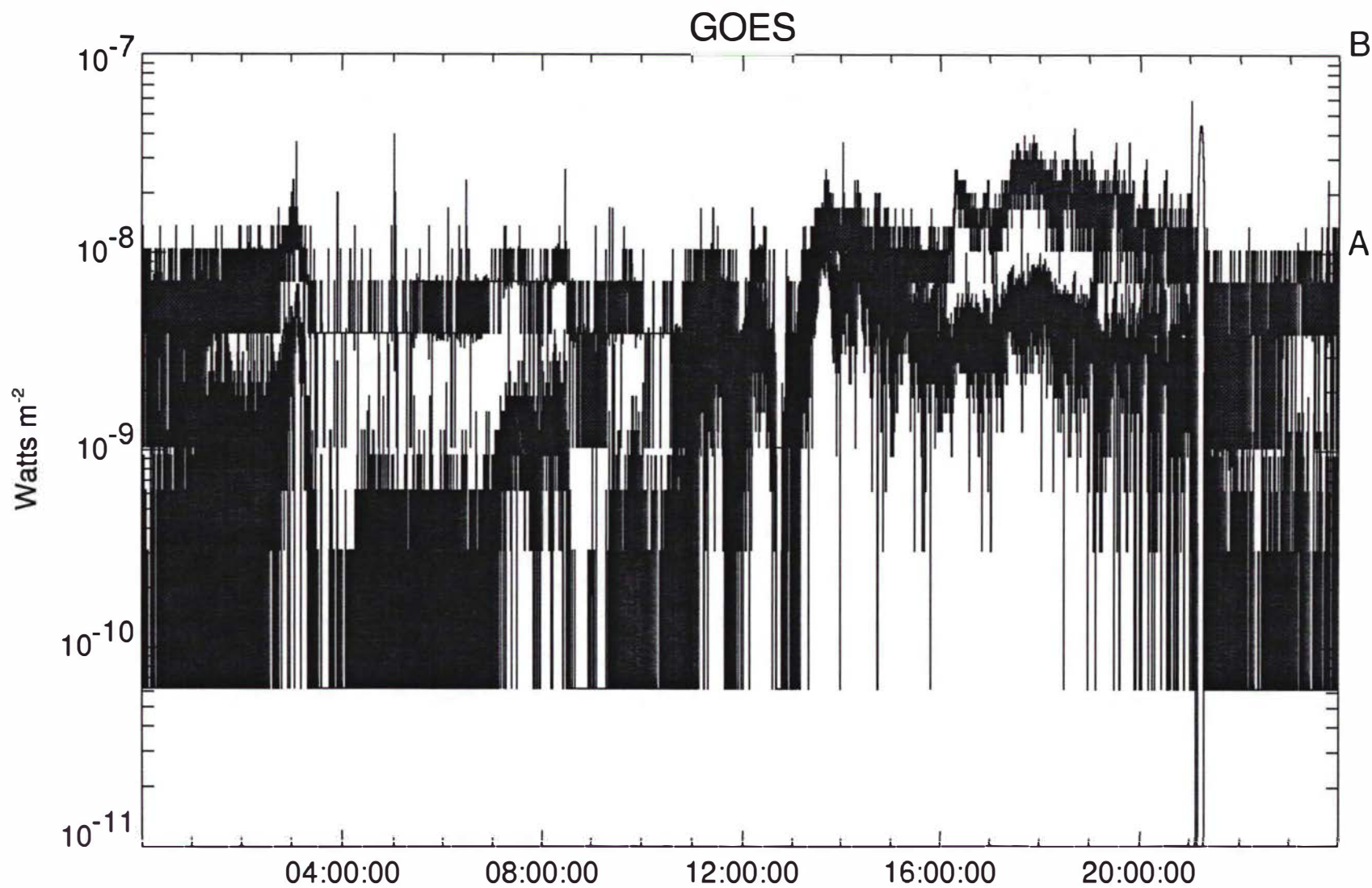
TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.



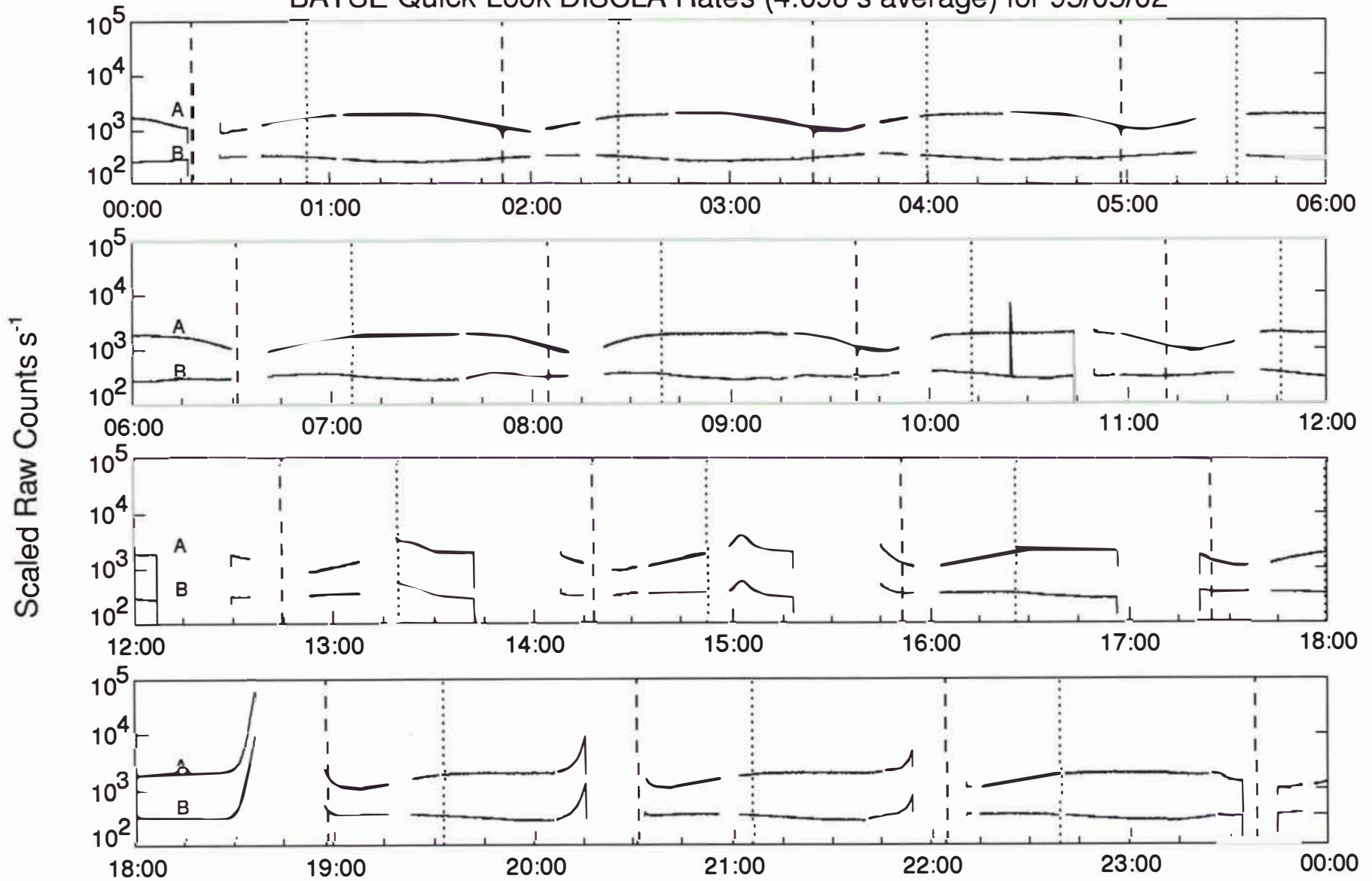
Data Start: 95/05/02, 0000:00

Plot created: 95/05/04, 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 95/05/02



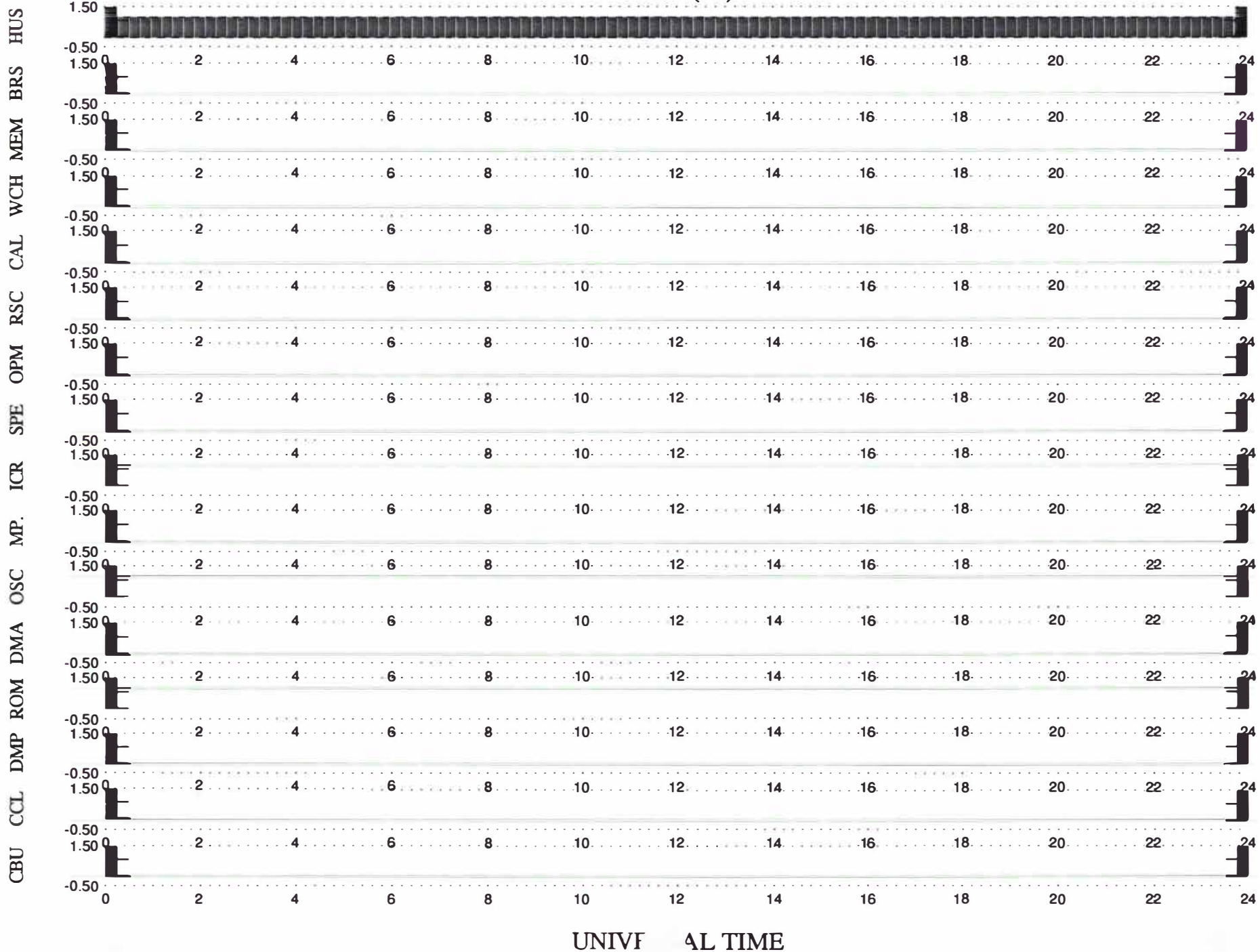
Current Time: 95/05/04, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

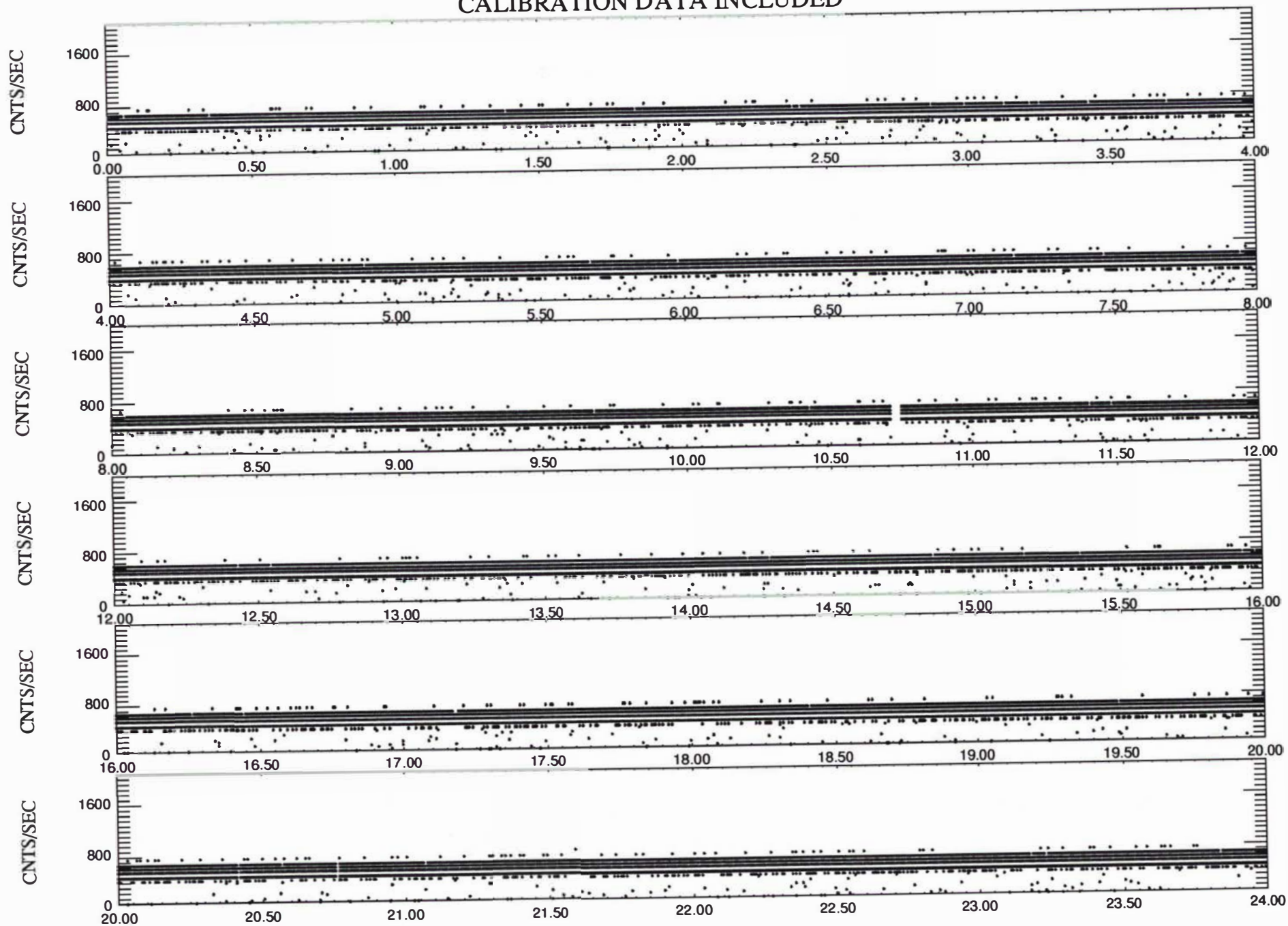
HUS MODES EDR day 122, year 1995 to day 122, year 1995
NO BURST (15)

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 122, year 1995 to day 122, year 1995
CALIBRATION DATA INCLUDED

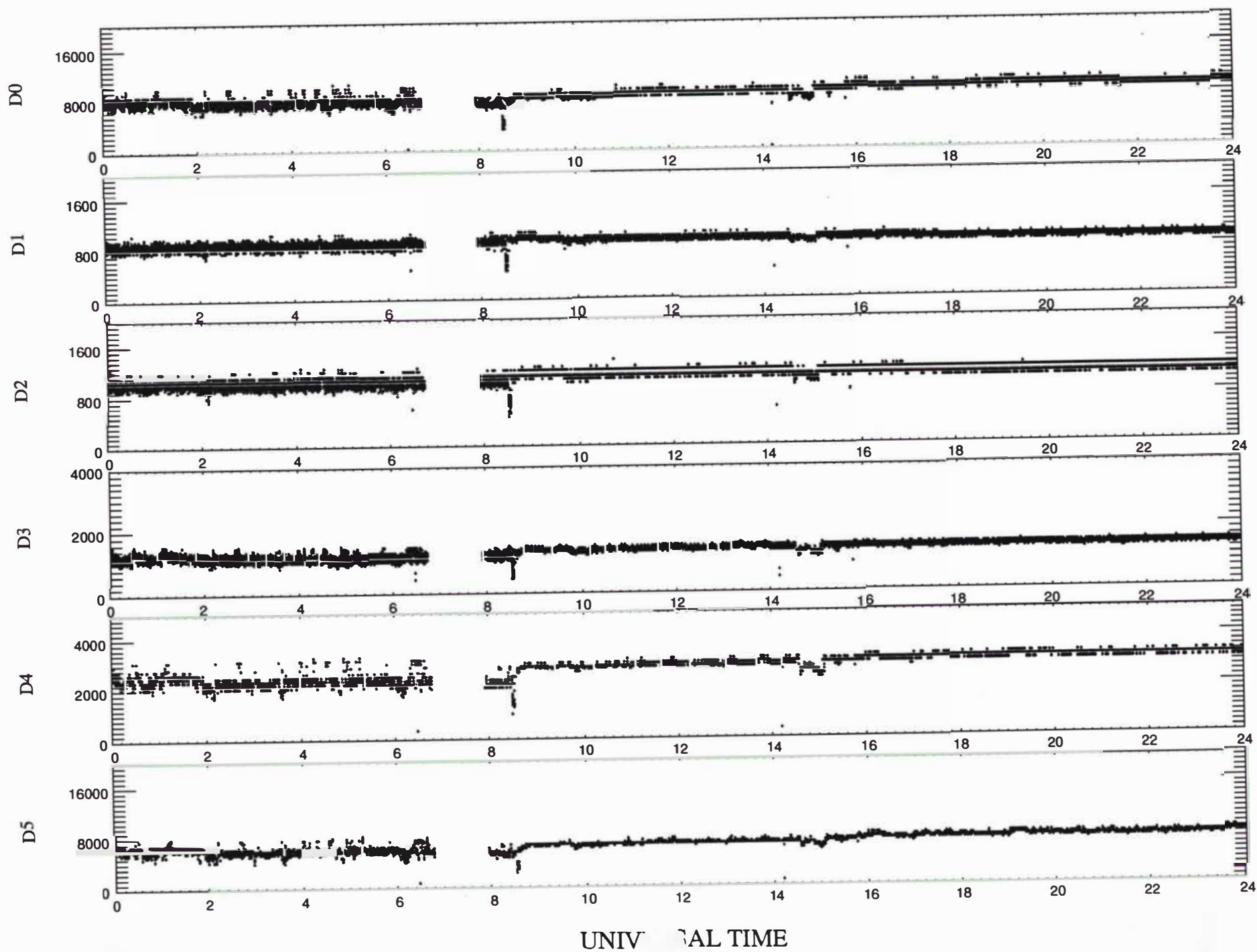
11/21/95



UNIVF AL TIME

HUS 2B COUNTS / SEC QEDR day 122, year 1995 to day 122, year 1995

5/3/95



From DEAL@ssl.msfc.nasa.gov Mon May 8 11:07 PDT 1995
Date: Mon, 8 May 1995 13:07:03 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3534

TIME: TJD=9840 SECONDS=16789

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

ELECTRON EVENT

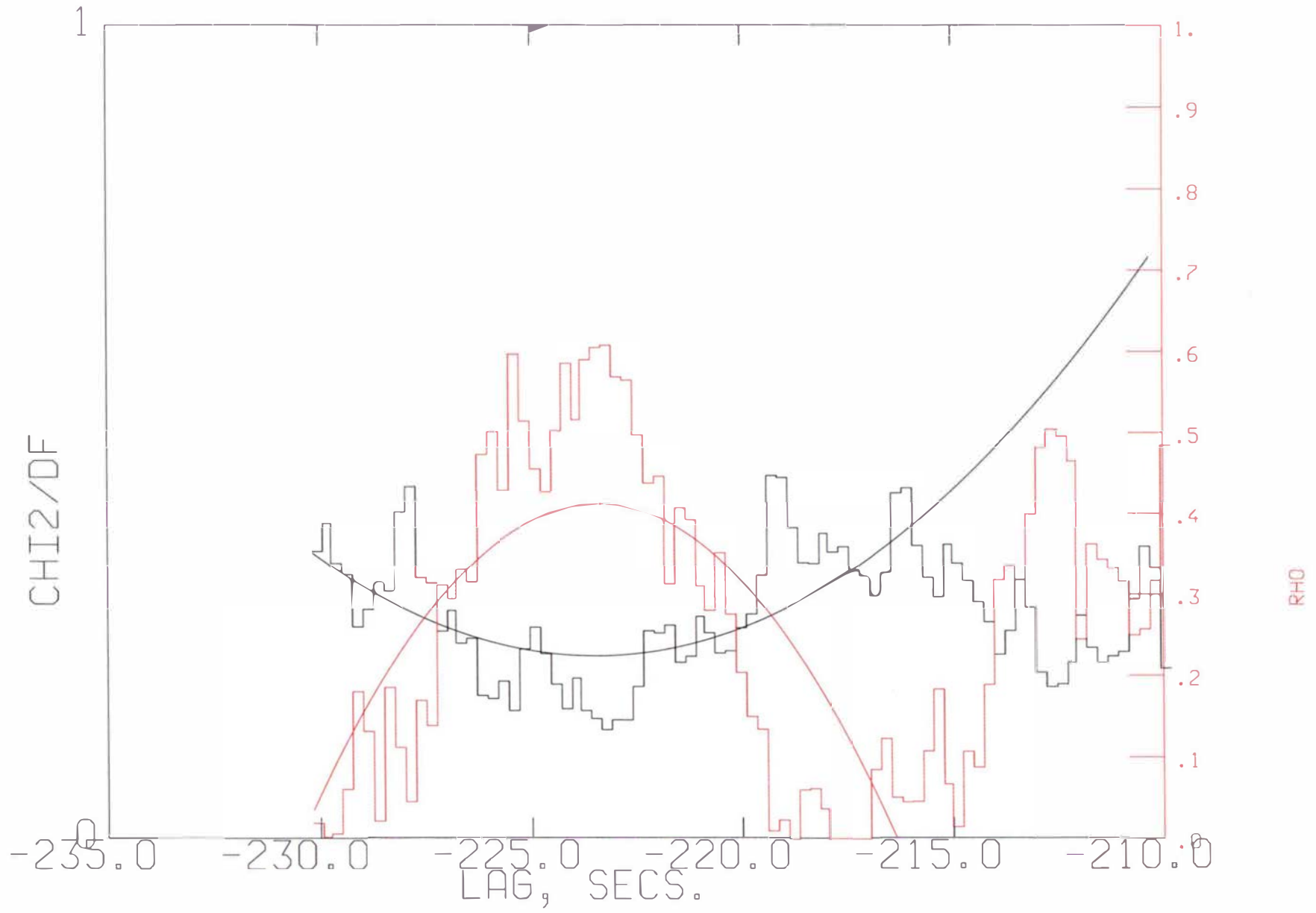
950416	13	27	00	S2	80	130	10	<0.2	20		BGR	✓
950418	23	16	33.572	S1	180	530	220	2.7	0.5	15	81	✓
950419	02	23	48.860	S1	600	3260	2440	1.5	0.2	1.1	82	✓
950419	11	23	32	S2	70	50	10	<0.15	90		BGR	✓
950419	13	11	40	S1	100	110	30	>15	130		BGR	
950419	23	21	17.472	S2	200	400	200	0.35	1	1.5	83	
950422	04	05	44.359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

From cline@lheavx.gsfc.nasa.gov Fri Feb 2 05:41 PST 1996
 Date: Fri, 2 Feb 1996 05:41:51 -0800
 Mime-Version: 1.0
 To: Bonnard.Teegarden@cesr.cnes.fr, KHURLEY@sunspot.ssl.berkeley.edu,
 palmer@lheamail.gsfc.nasa.gov, seifert@lheamail.gsfc.nasa.gov
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: For Your INFO

Dear Bonnard, Kevin, David, Helmut:

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

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



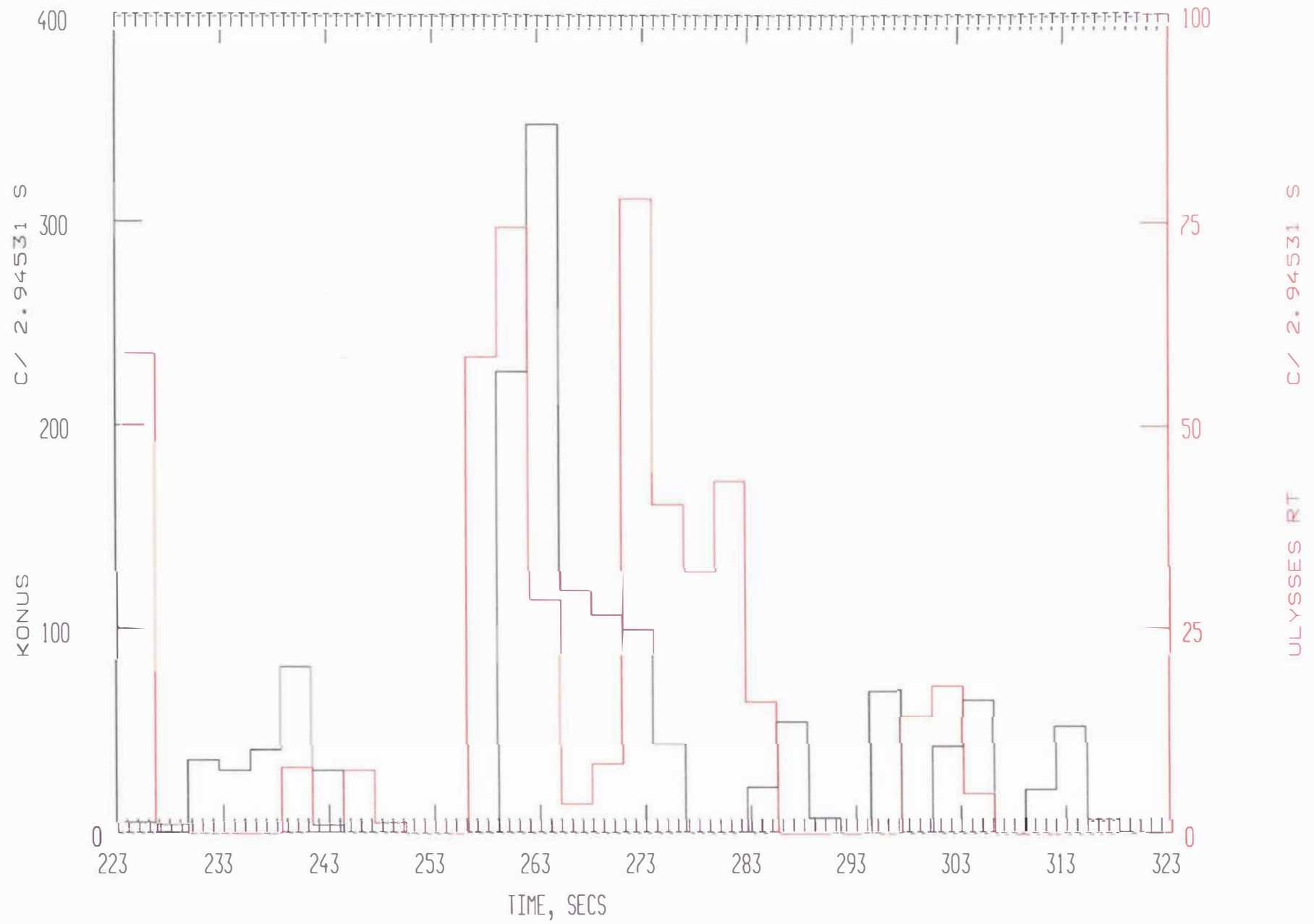
KONUS

-ULYSSES RT CORRELATION

03/05/95

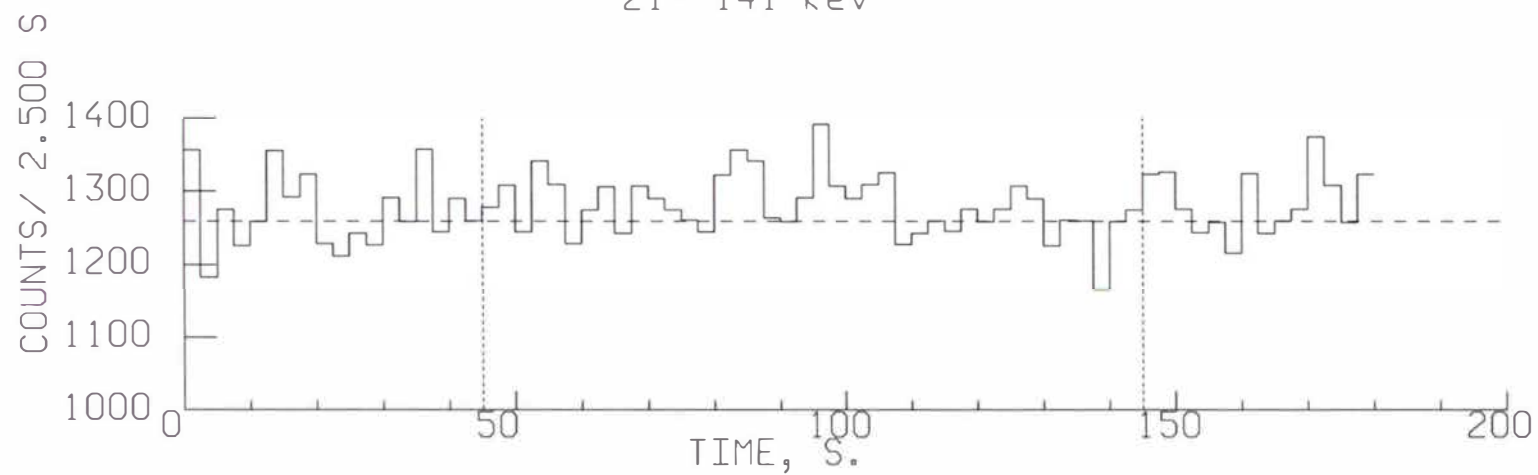
24655.703

2/ 9/11



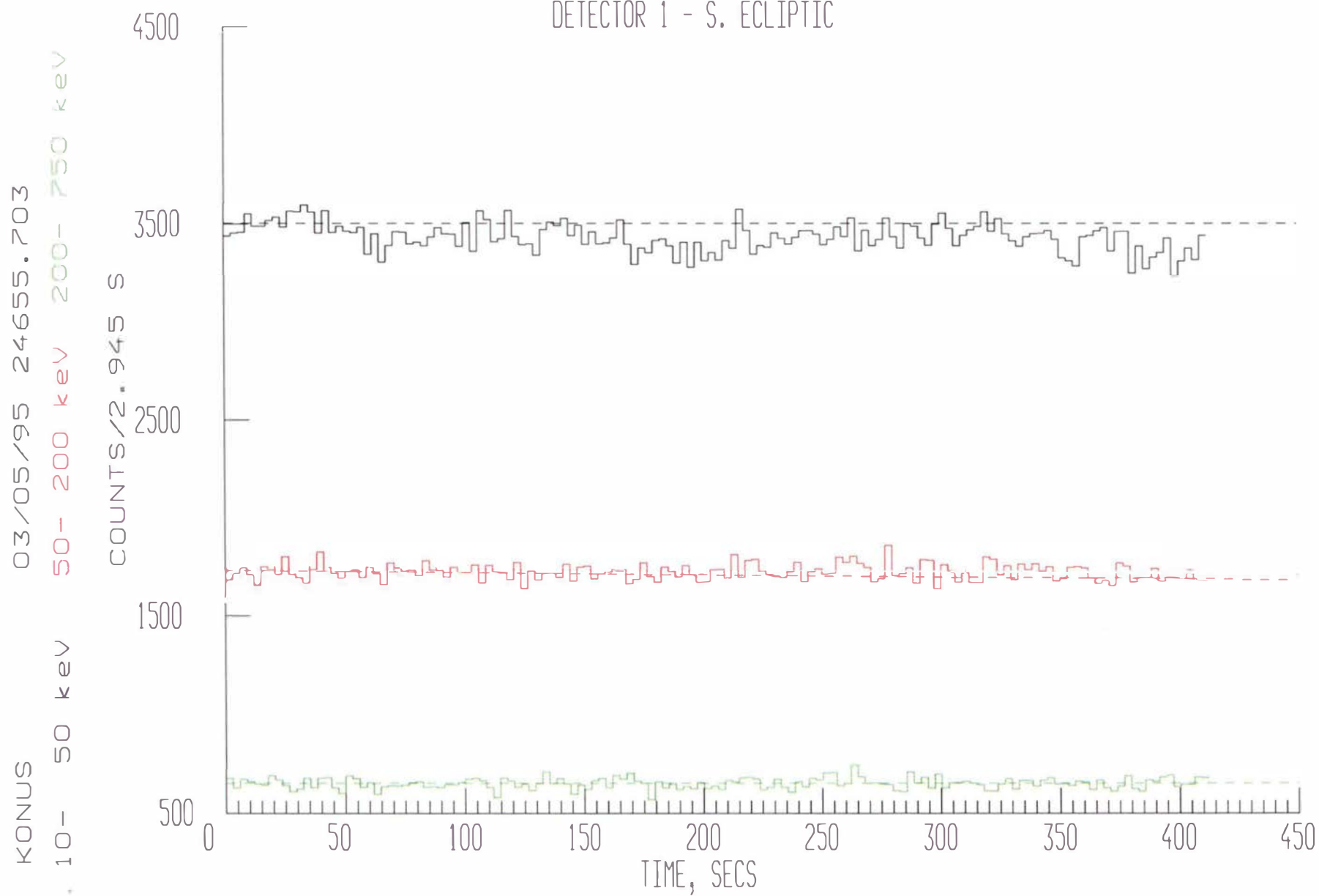
ULYSSES RT
3/ 5/95 24660.221 s
0.250 S INTERVALS REGROUPED BY 10
21- 141 keV

2/ 9/11



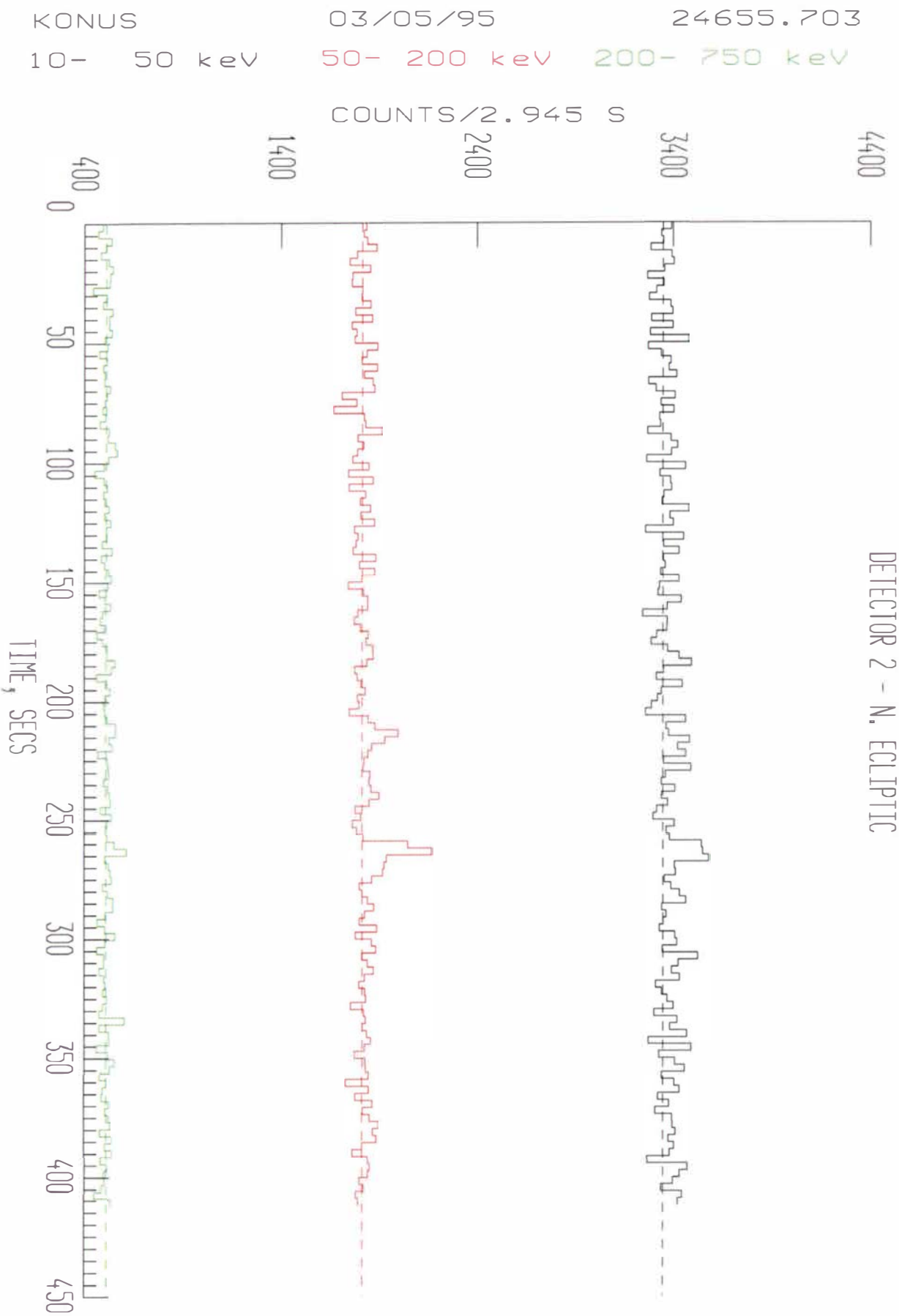
02/09/2011

DETECTOR 1 - S. ECLIPTIC



02/09/2011

DETECTOR 2 - N. ECLIPTEIC



KONUS RI 19950503 24752

ULYSSES RT

23 / 08 / 11

03 / 05 / 95 24660.221 s

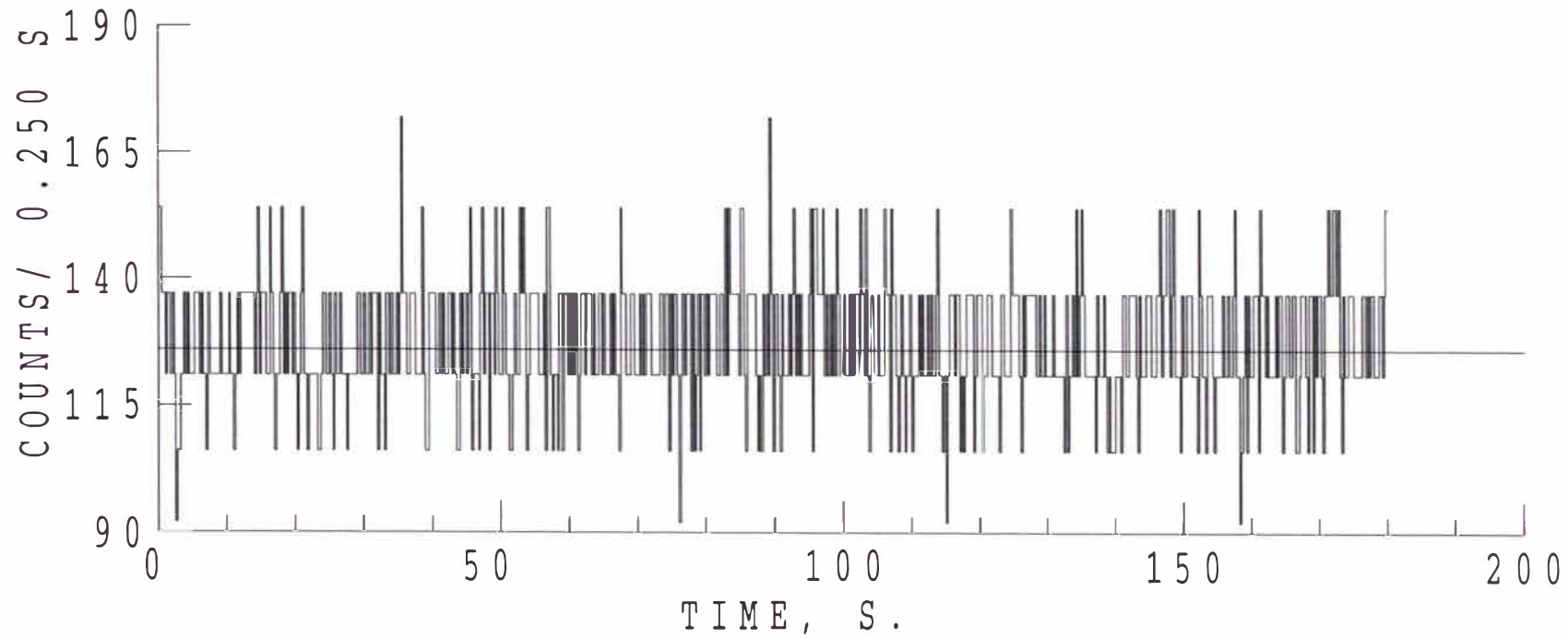
0 - 0 keV

N= 10 M= 10

>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



KONUS

15 / 2 / 96

ULYSSES RT

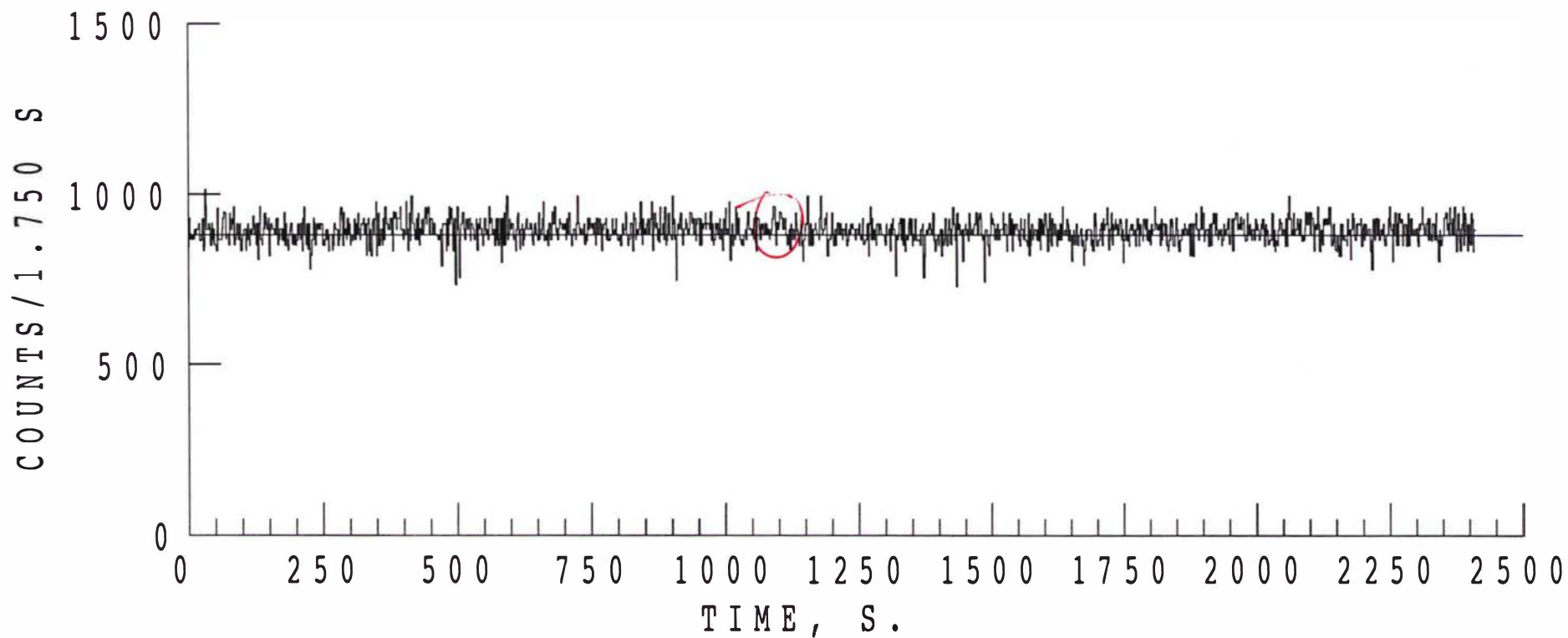
3 / 5 / 95 23652.199 s

0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

M=10 M=2

>4.0 SIGMA FLUCTUATIONS



From DEAL@ssl.msfc.nasa.gov Fri May 5 12:47 PDT 1995
Date: Fri, 5 May 1995 14:47:27 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3535

TIME: TJD=9840 SECONDS=25230

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

From SAHI@ssl.msfc.nasa.gov Tue May 9 08:46 PDT 1995
Date: Tue, 9 May 1995 10:46:13 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3536

TIME: TJD=9840 SECONDS=34035

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From SAHI@SSLLES.MSFC.NASA.GOV Fri May 5 09:54 PDT 1995
Date: Fri, 5 May 1995 11:54:41 -0500 (CDT)
From: SAHI@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3537

BATSEARCH PROGRAM

BATSE BURST # 3537 TRIGGER
EVENT OF 1995 MAY 3 DAY OF YEAR=123
EVENT CROSSING TIME AT BATSE : 66970. S. OR 18:36:10.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 158.000 -8.000
BATSE PEAK COUNTING RATE: 150000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 3/ 5/ 95 IS:
RA= 81.474 DEC= 27.624 DIST= 2.113 AU
BATSE-ULYSSES DISTANCE = 316074898. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 98.04 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -147.50 SECS.
CROSSING TIME AT ULYSSES IS 66823. S. OR 18:33:42 +/- 229.01 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 3/ 5/ 95 IS:
RA= 143.931 DEC= 16.491 DIST= 1.167 AU
MARS-BATSE DISTANCE = 174545008. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=151.83 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -513.25 SECS.
CROSSING TIME AT MARS IS 66457. S. OR 18:27:36 +/- 39.93 SECONDS

BATSE BURST TRIGGER

NO.: 3537

TIME: TJD=9840 SECONDS=66970

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=054.9 AZIMUTH=110.2 ERROR= DEGREES

COMMENTS:

BURST. STRONG SPIKE FOLLOWED BY ADDITIONAL EMISSION. OCCURED IN A GAP
SO COMPLETE DATA NOT AVAILABLE, DUR.~ AT LEAST 50 SECS. VISIBLE ABOVE
300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3537	950503	9840	66970	150000	158	-08	50

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

Dear Kevin,

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

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

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

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

From cline@tgrs.gsfc.nasa.gov Fri May 5 13:50 PDT 1995
Date: Fri, 5 May 1995 13:50:44 -0700
Mime-Version: 1.0
To: KHURLEY@sunspot.ssl.berkeley.edu
From: cline@tgrs.gsfc.nasa.gov (T L Cline)
Subject: may 3rd

KEVIN: (relayed from Paul Butterworth)

Tom,

It's a very interesting event. Konus triggered at 18:36:11.838. The triggering spike was very short (<100ms) and hard. (It should allow good light-time measurements between platforms, among other things). There was then perhaps 100s of further activity, low at first, peaking around 30s from the trigger time, then fading away. It was an S1 event, so there's a chance that TGRS might have seen it too.

Paul.

TLC

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

From: Krishnan Marar, ISRO

To Prof. Kevin Hurley,
Univ. of California

Dear Kevin,

Hope you received my fax dated April 28. At that time we had not received data of SROSS-C2 orbits greater than 5000. Now we have two more events on April 7 at 15:55:31 UT and on May 3 at 18:36:11 UT. The profiles are given below. Kindly confirm these events and also please send us confirmation (if any) of our event on 17 March 1995.

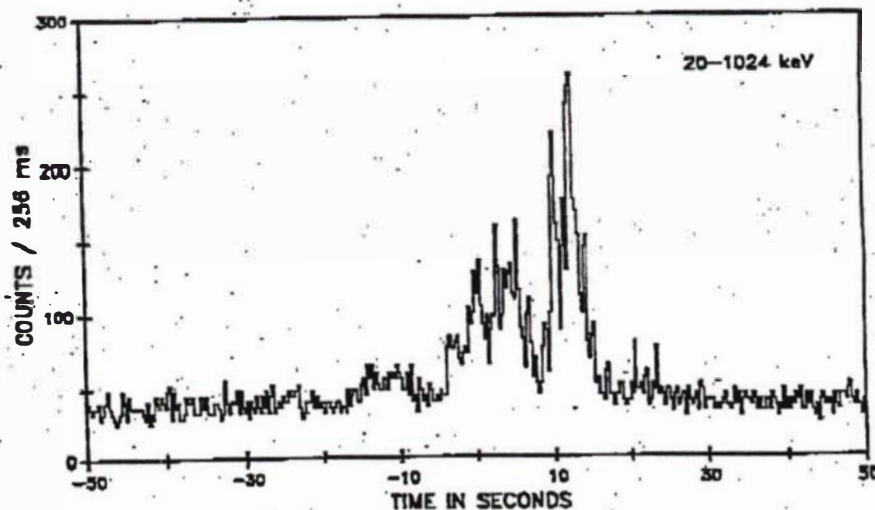
Many thanks,

Dt:12/5/1995

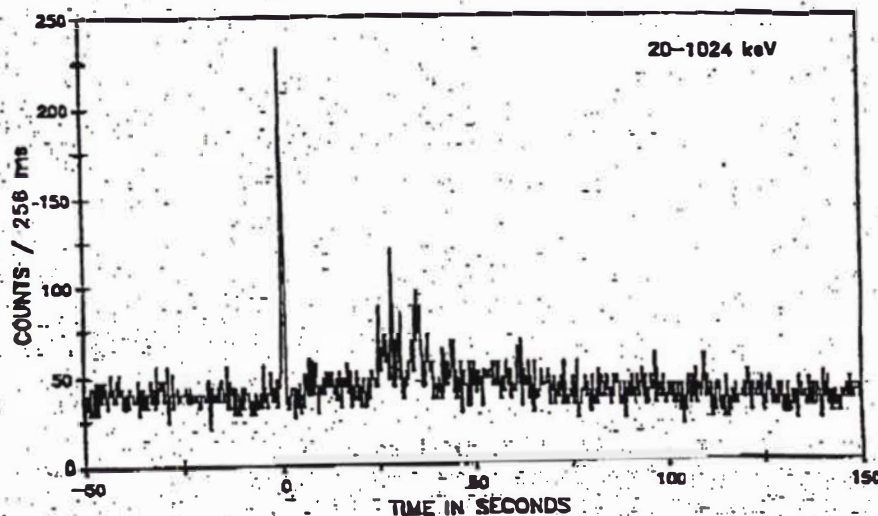
sincerely yours,

Krishnan
(Krishnan)

07 APRIL 95 15:15:31.312 UT ORBIT 5101



03 MAY 95 18:36:10.626 UT ORBIT 5497



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?

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

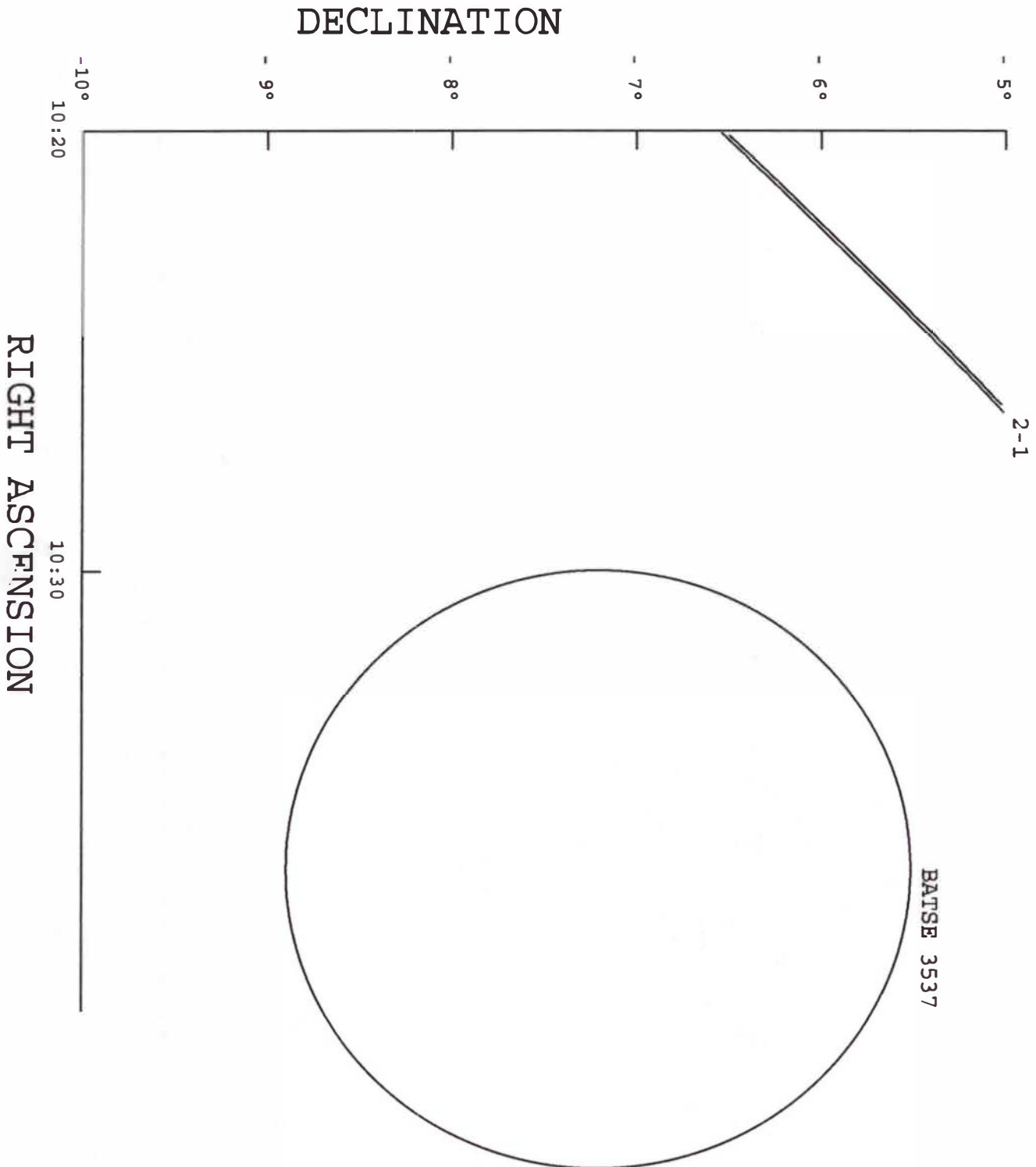
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF MAY 3, 1995 18:50

7 / 3/98



N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

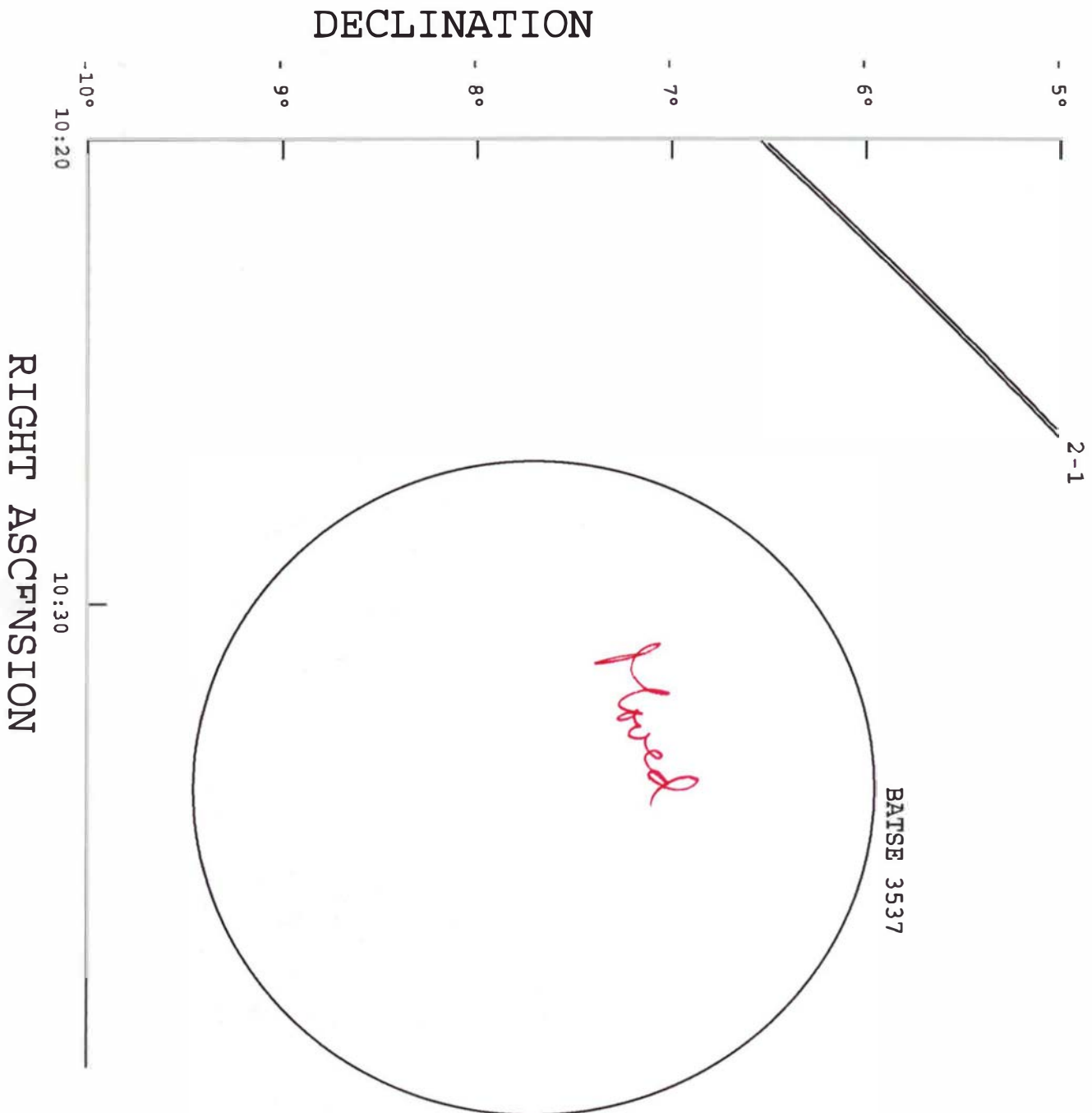
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF MAY 3, 1995 18:50

30/10/97



BATSE

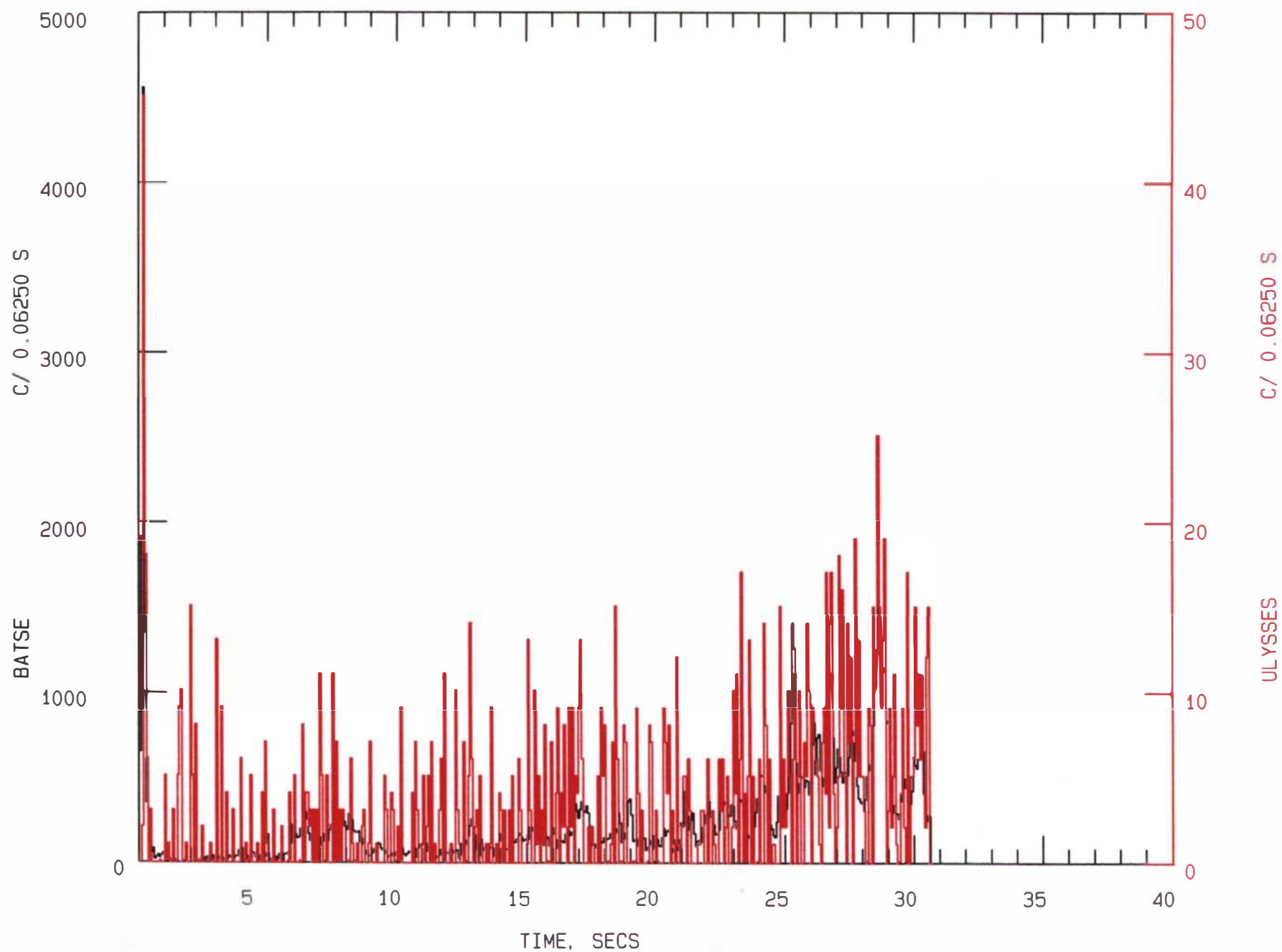
-ULYSSES

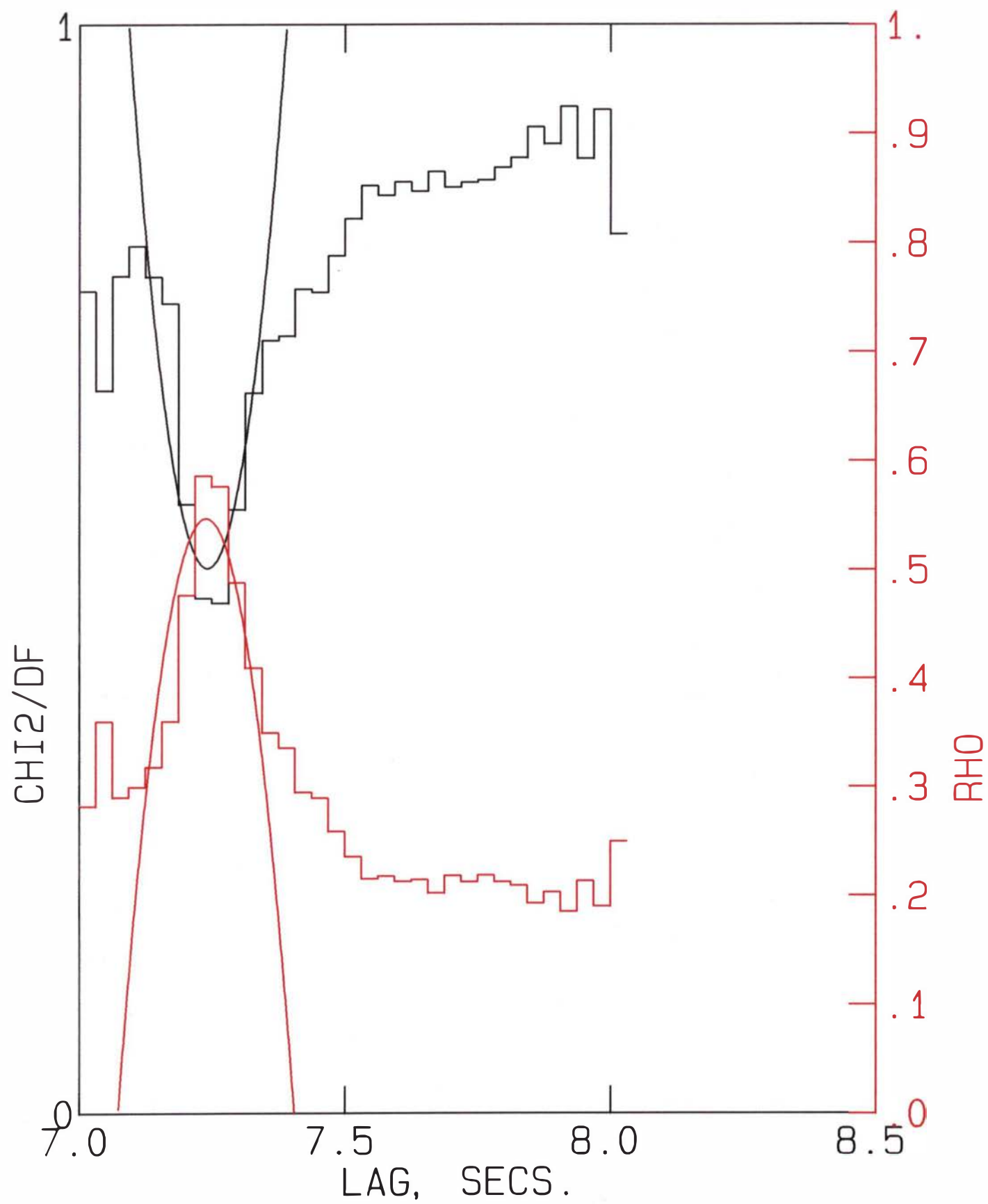
CORRELATION

3/ 5/95

66970.418

30/10/97





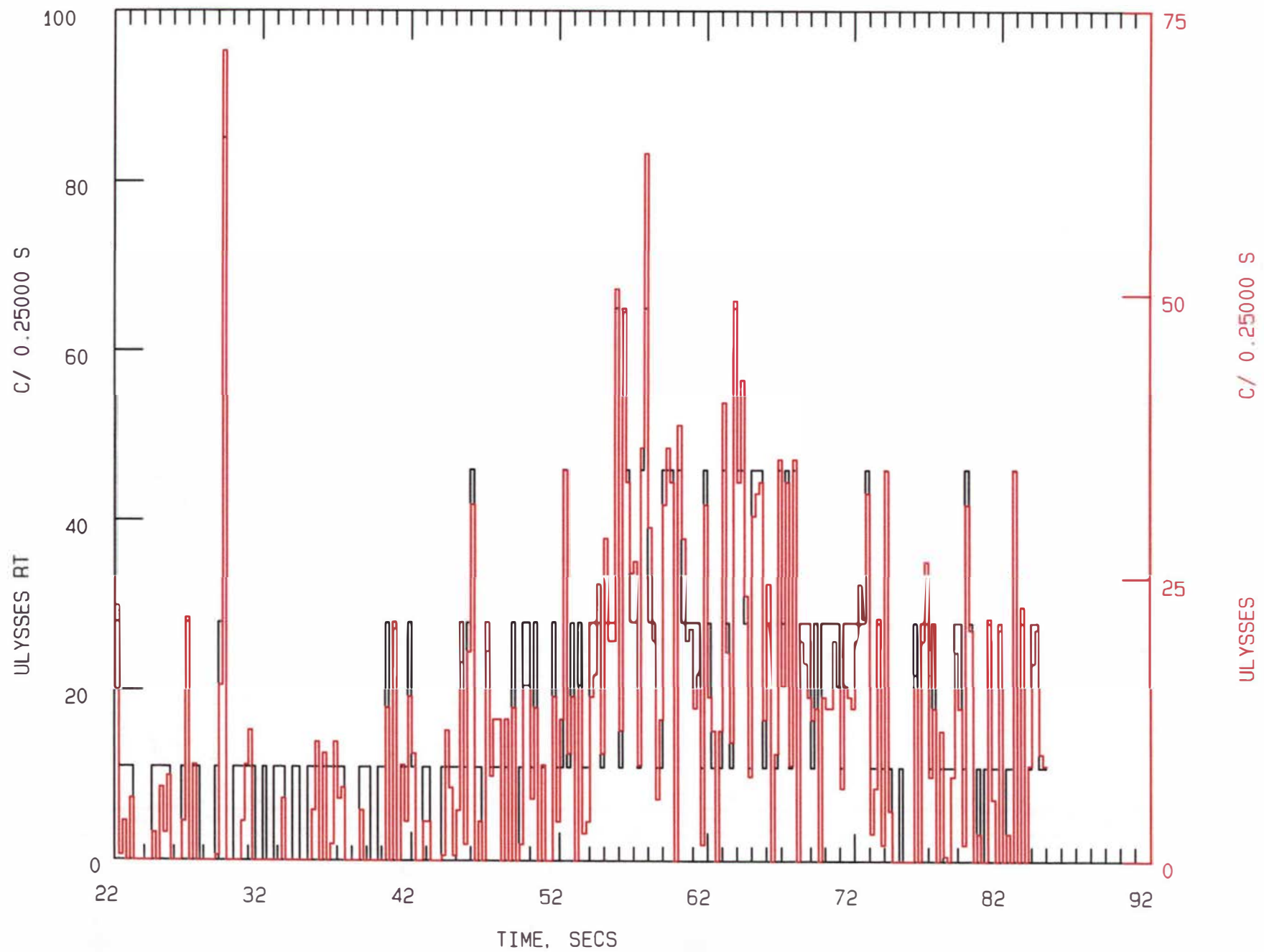
ULYSSES RT-ULYSSES

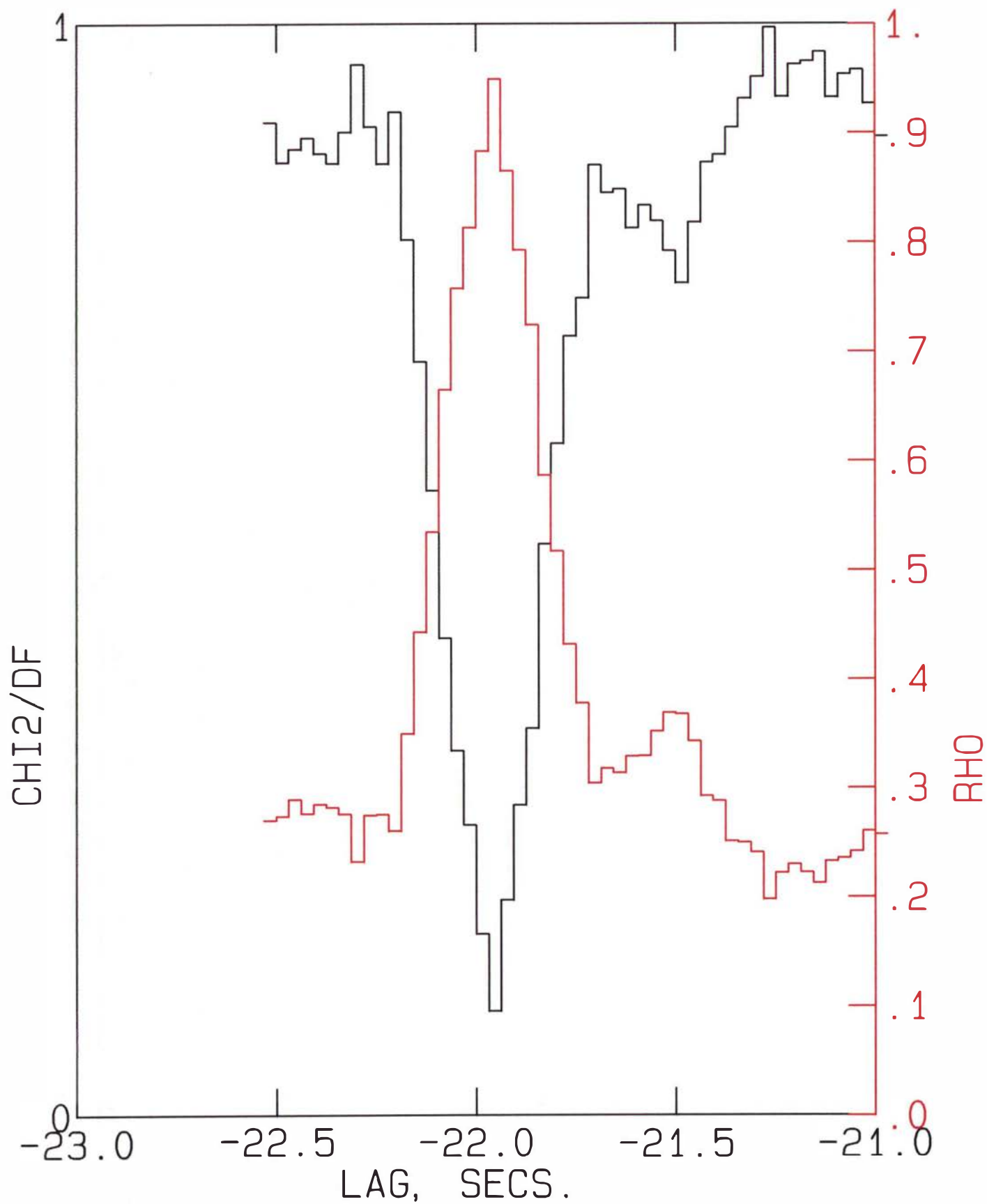
CORRELATION

3/ 5/95

67830.103

30/10/97

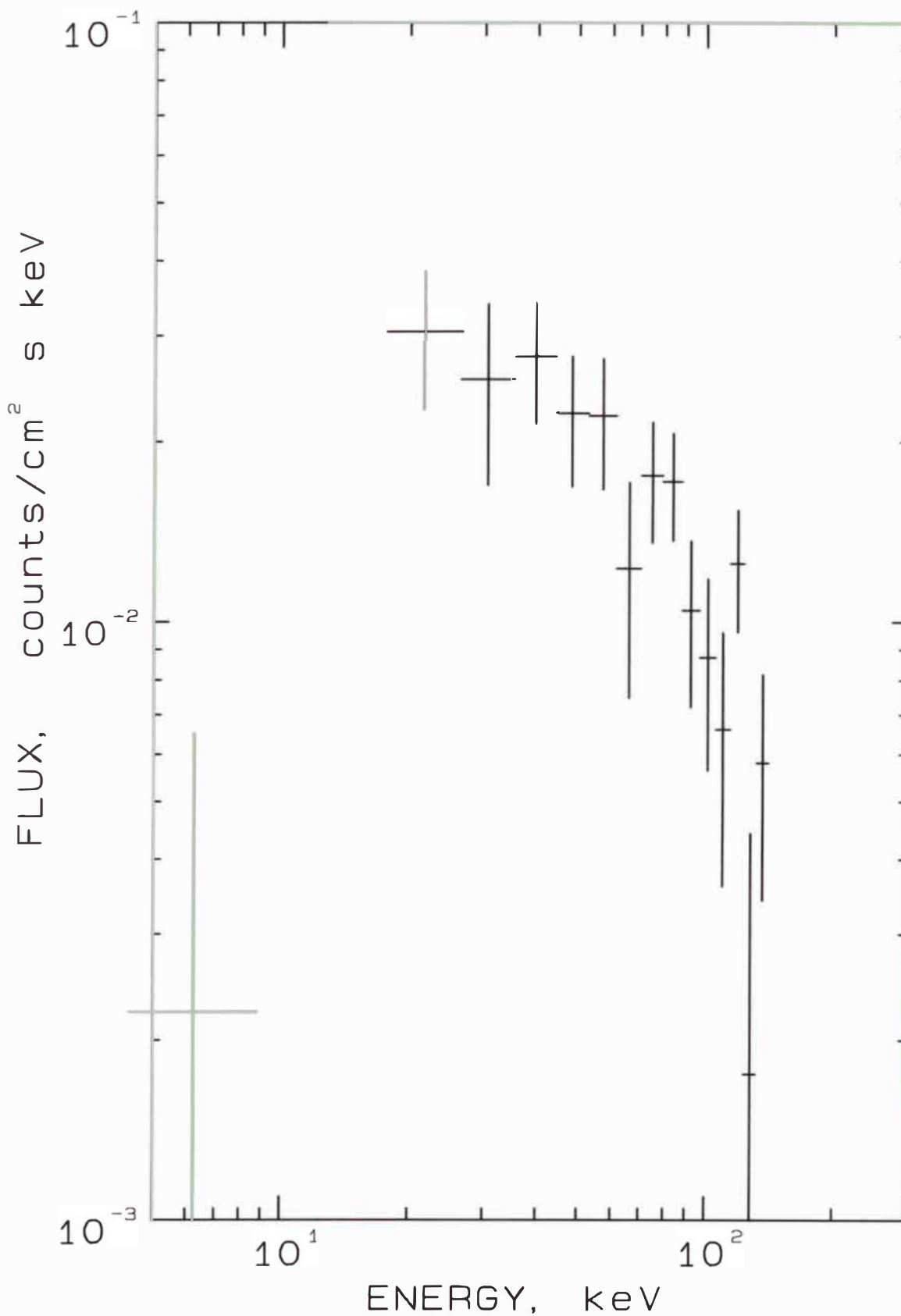




ULYSSES 03/05/95 67859.393

30/10/97

SPECTRUM INTEGRATED OVER 111.2 SECONDS, INTERVALS 2 TO 37



ULYSSES 03/05/95 67859.393 BURST SPECTRAL COUNT RATES

4- 17 keV

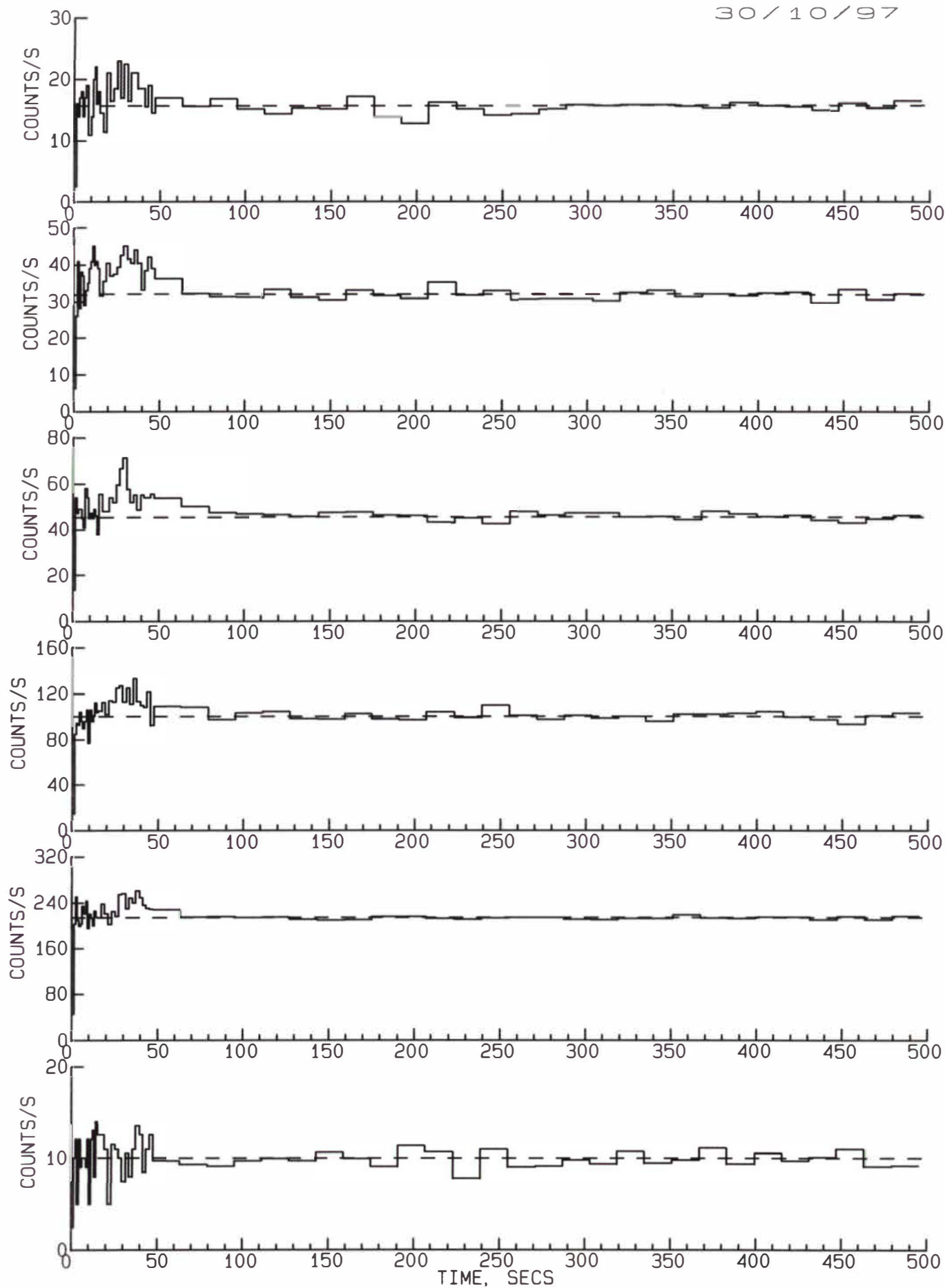
17- 44 keV

44- 70 keV

70- 97 keV

97-123 keV

123-141 keV



ULYSSES

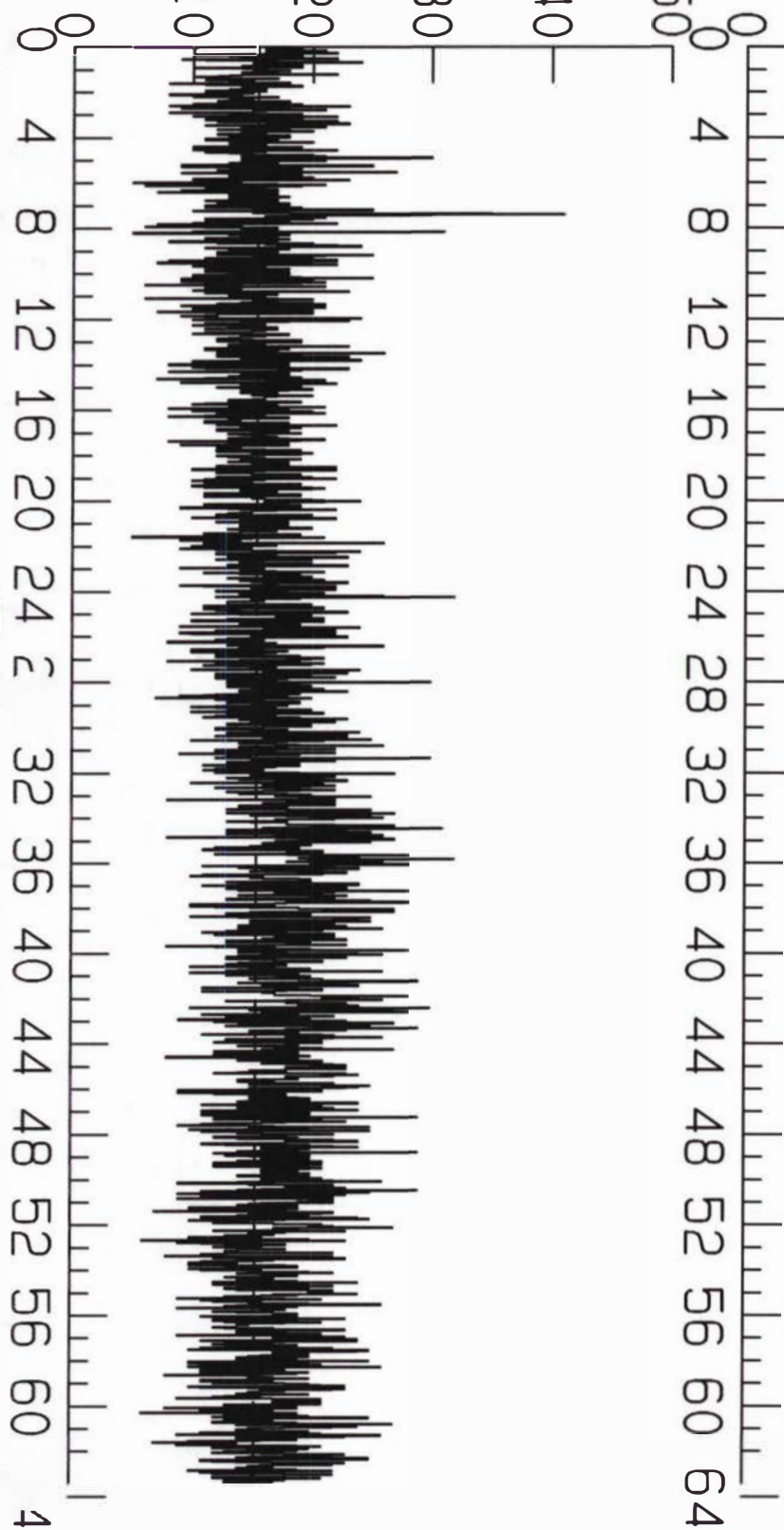
03/05/95

Ttrig=67859.478

21- 141 keV

COUNTS/0.031 S

COUNTS/0.125 S



30/10/11

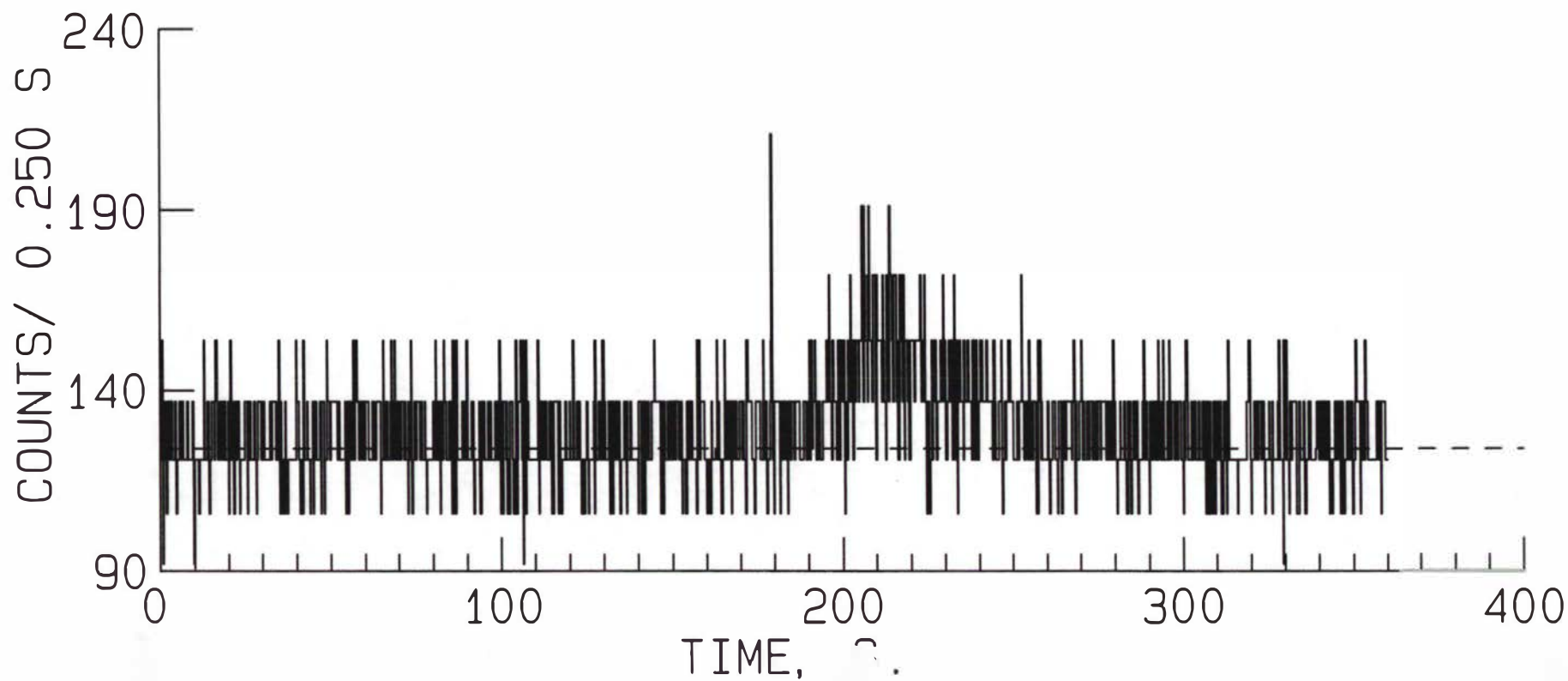
ULYSSES RT

30/10/97

3/ 5/95 67680.021 s

21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



BATSE

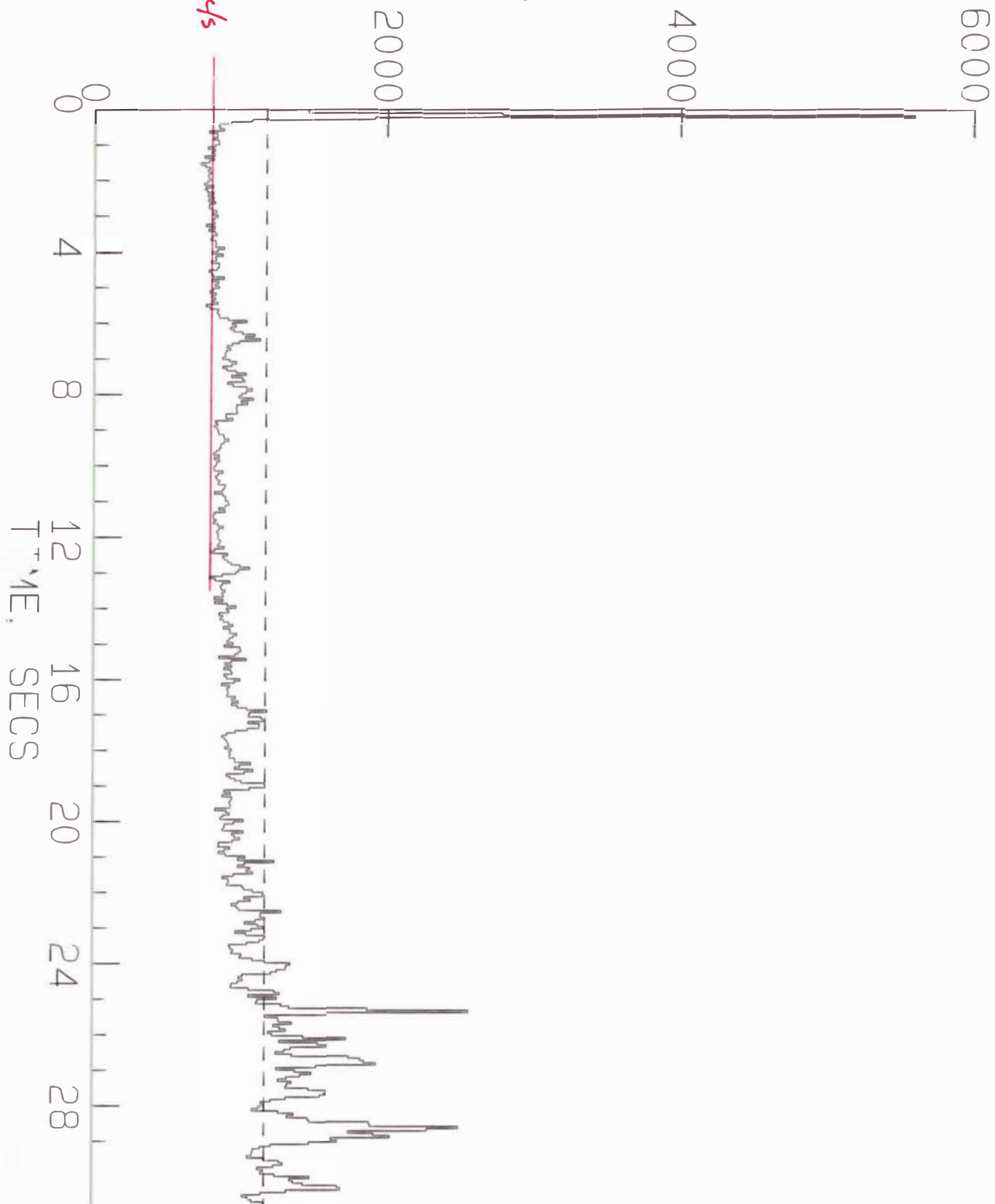
03/05/95

66970.418

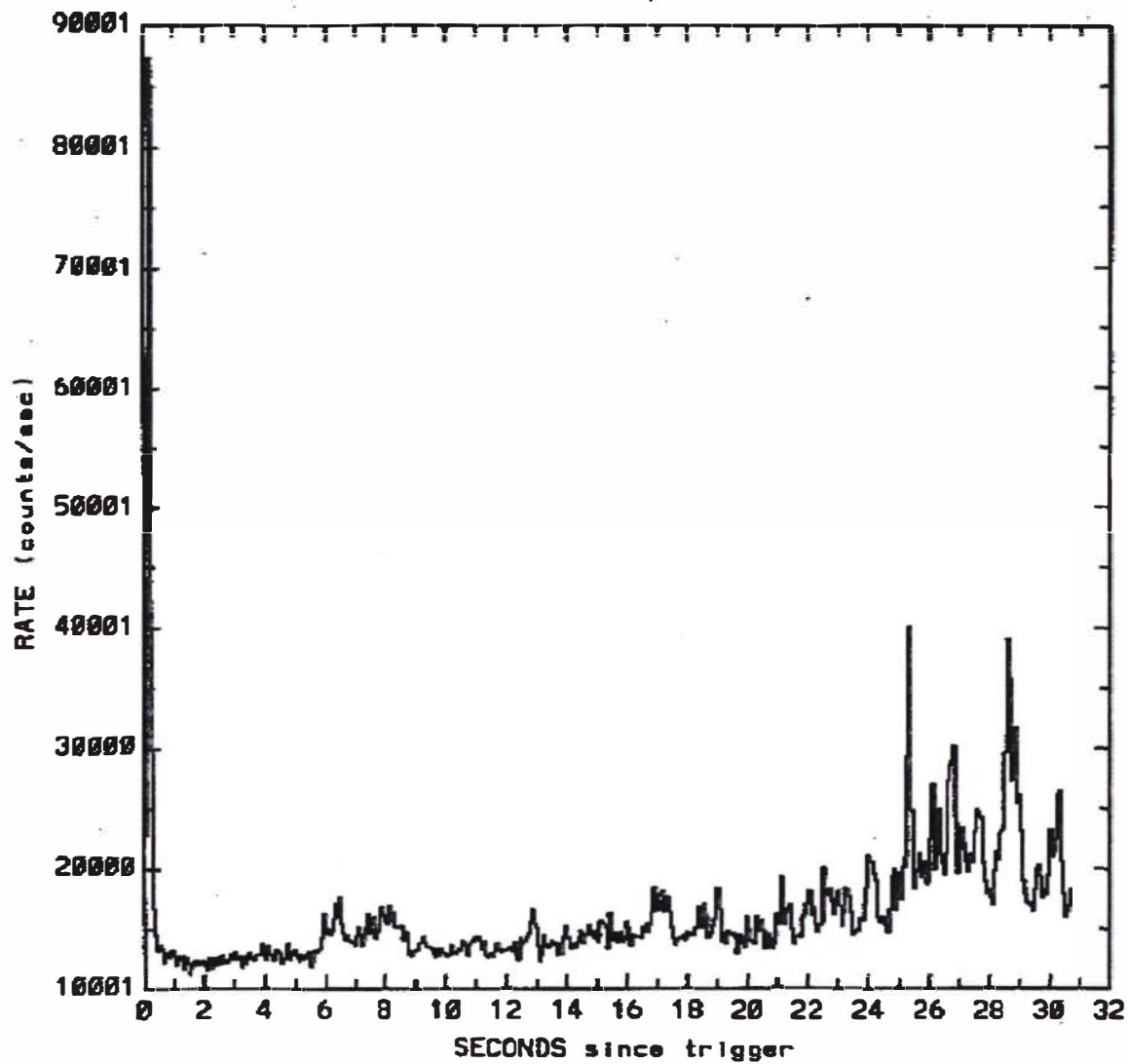
25- 100 keV

COUNTS/ .064 S

792 c/s



MER Data for K. Hurley, No. 3537



18-MAY-1995 00:41:23

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

Trigger # : 3537

Trigger Time:
9048 / 66978.418Burst Data Type:
MERDeadtime
Corrected: NBackground Data
Type: CONTMinimum Integ. Time:
0.064 second(s)Detectors [7..8]:
--54--18Channels:
(8 . 6)Quality Mask:
BDISP1

From SAHI@ssl.msfc.nasa.gov Tue May 9 08:51 PDT 1995
Date: Tue, 9 May 1995 10:51:30 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3538

TIME: TJD=9840 SECONDS=76201

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

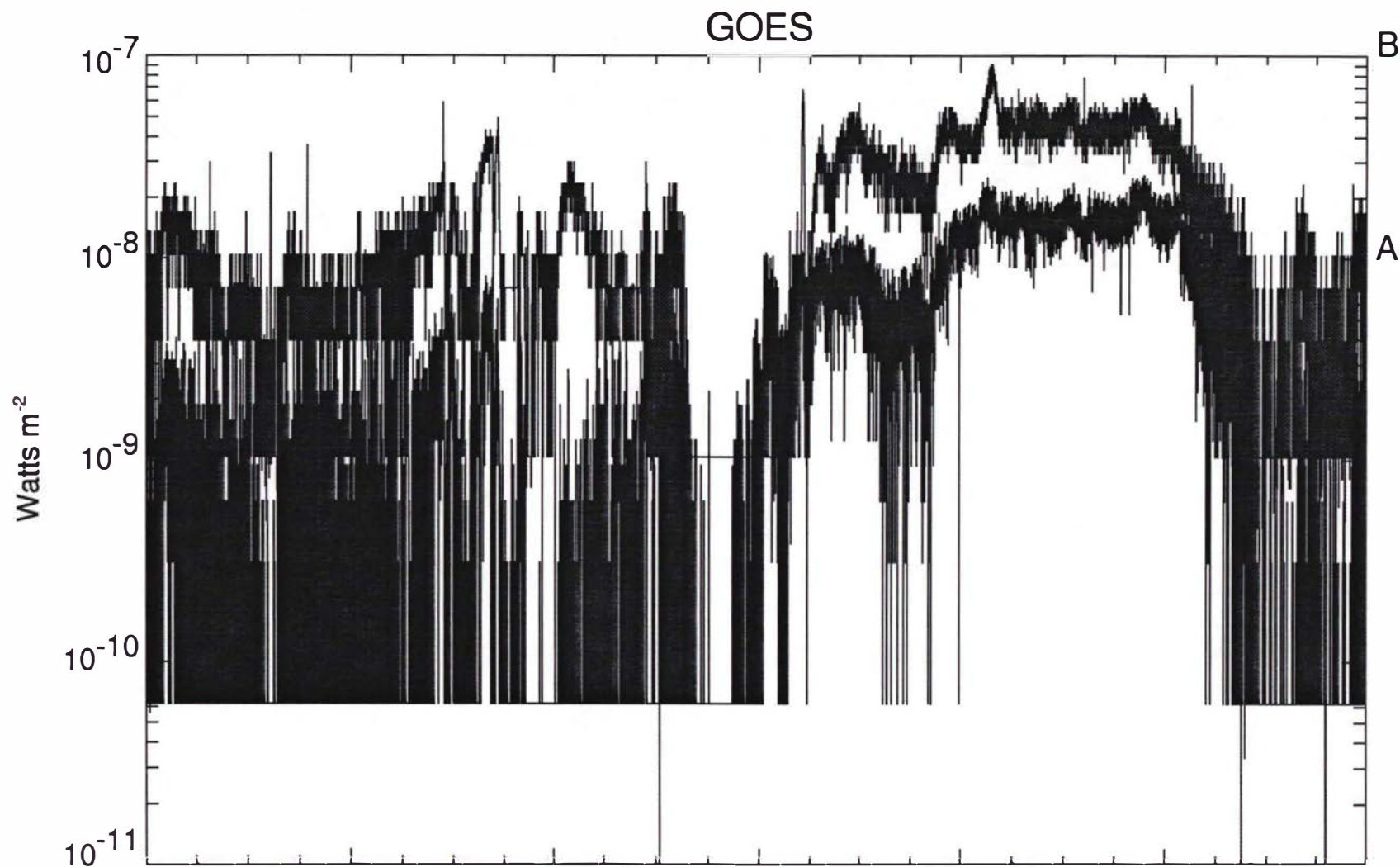
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

TIRGGERED UPON ENTRY INTO SAA.



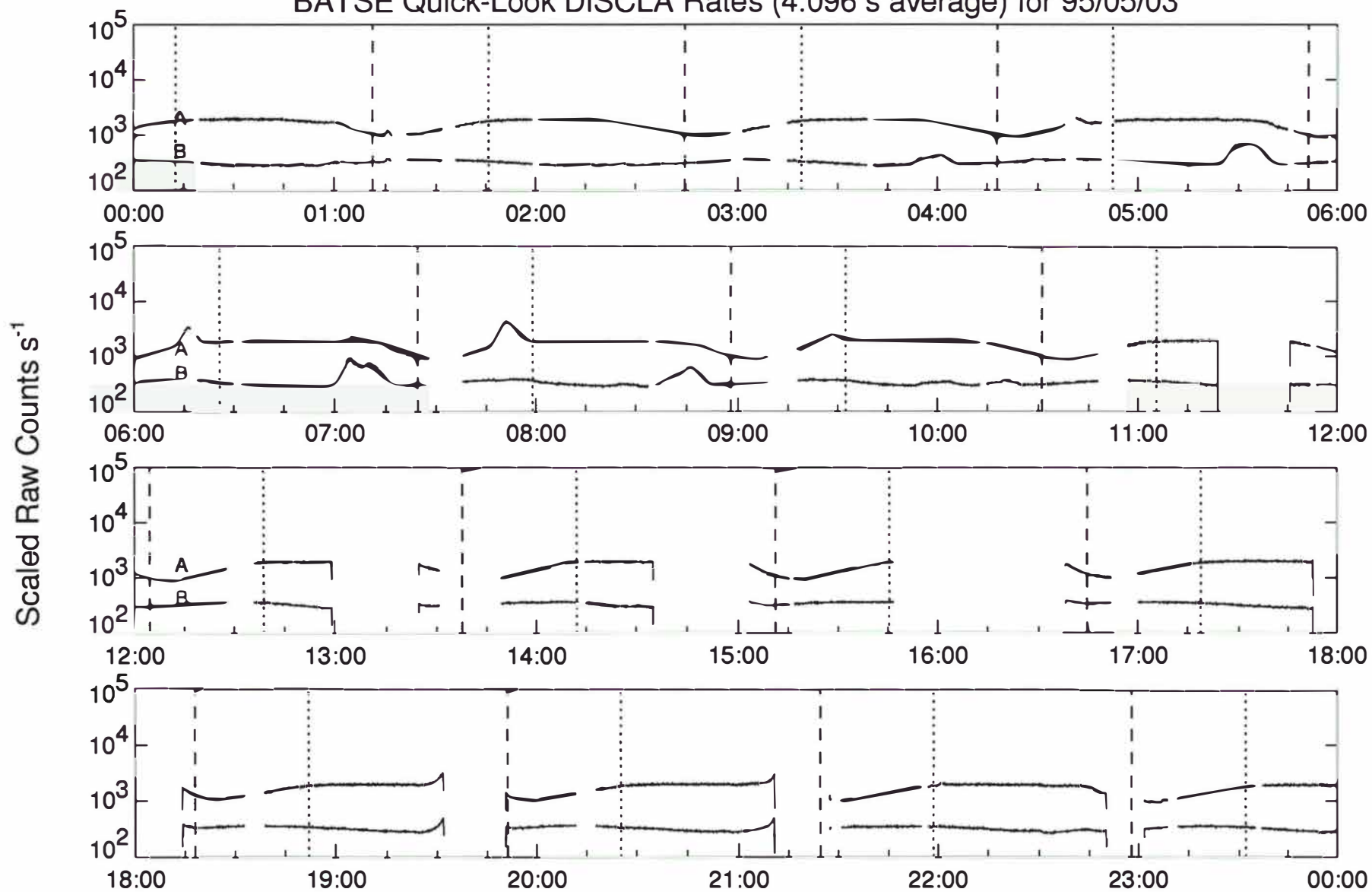
Data Start: 95/05/03, 0000:01

Plot created: 95/05/05, 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 95/05/03



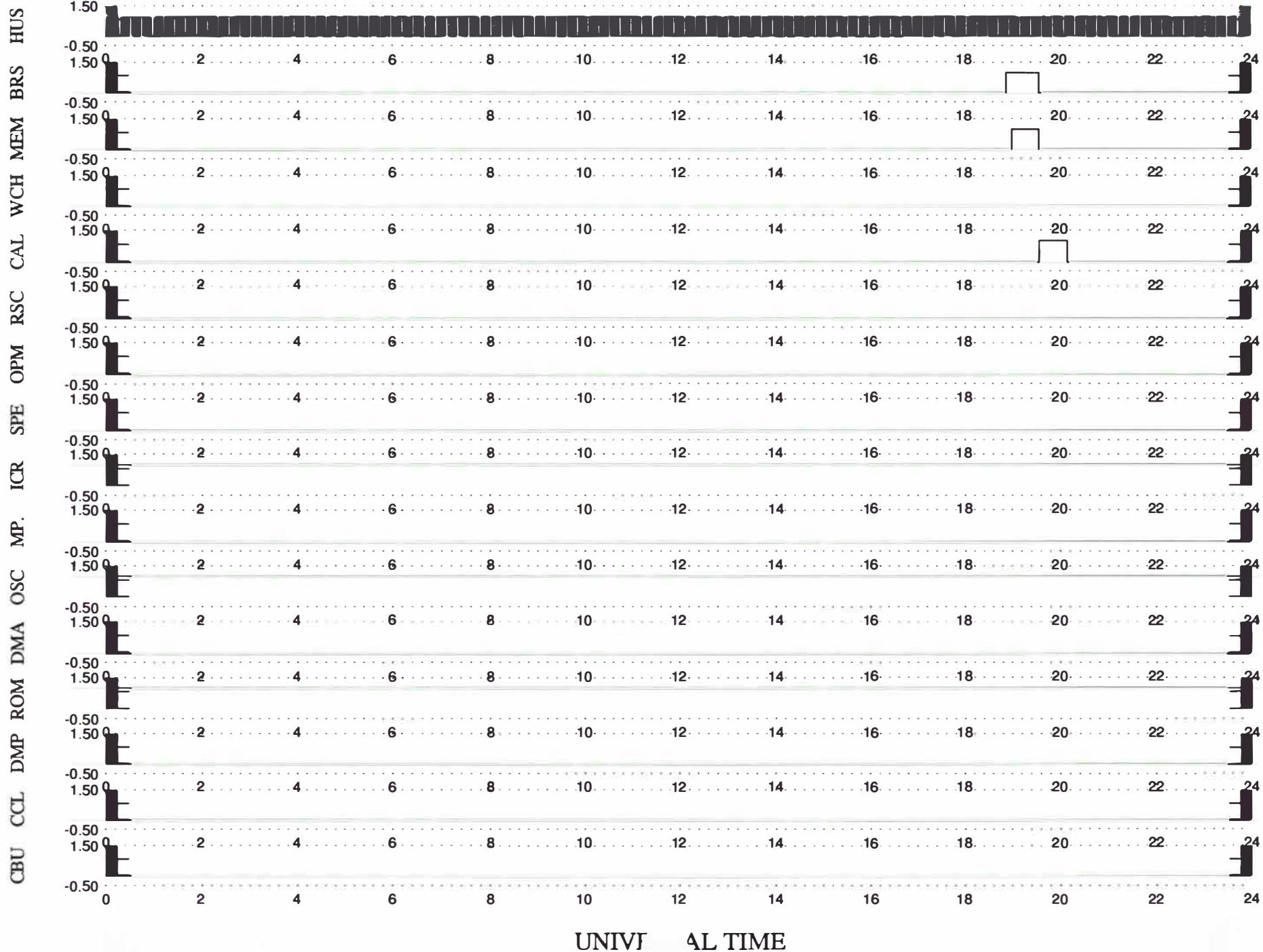
Current Time: 95/05/05, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

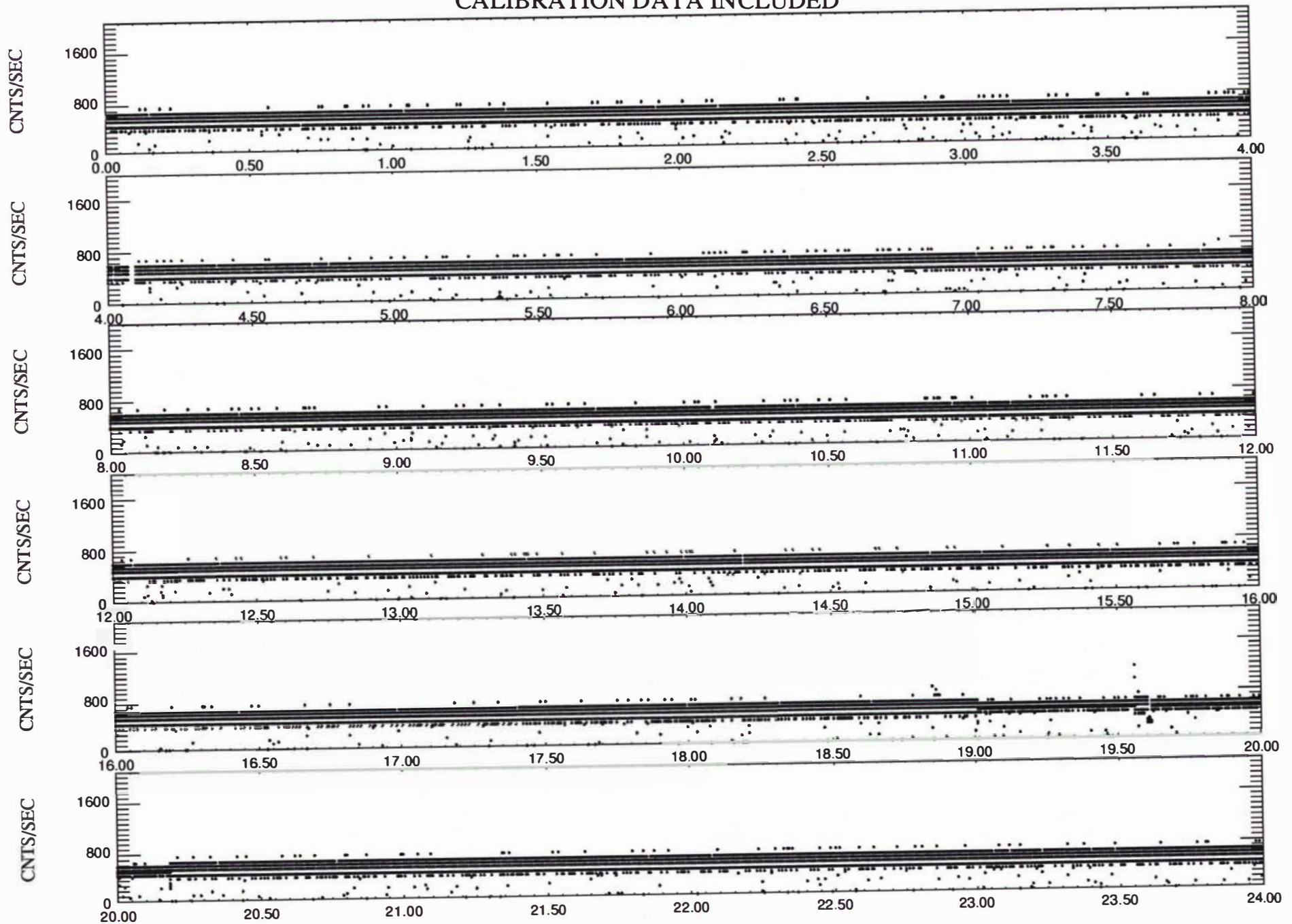
HUS MODES EDR day 123, year 1995 to day 123, year 1995
BURST NUMBER 0

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 123, year 1995 to day 123, year 1995
CALIBRATION DATA INCLUDED

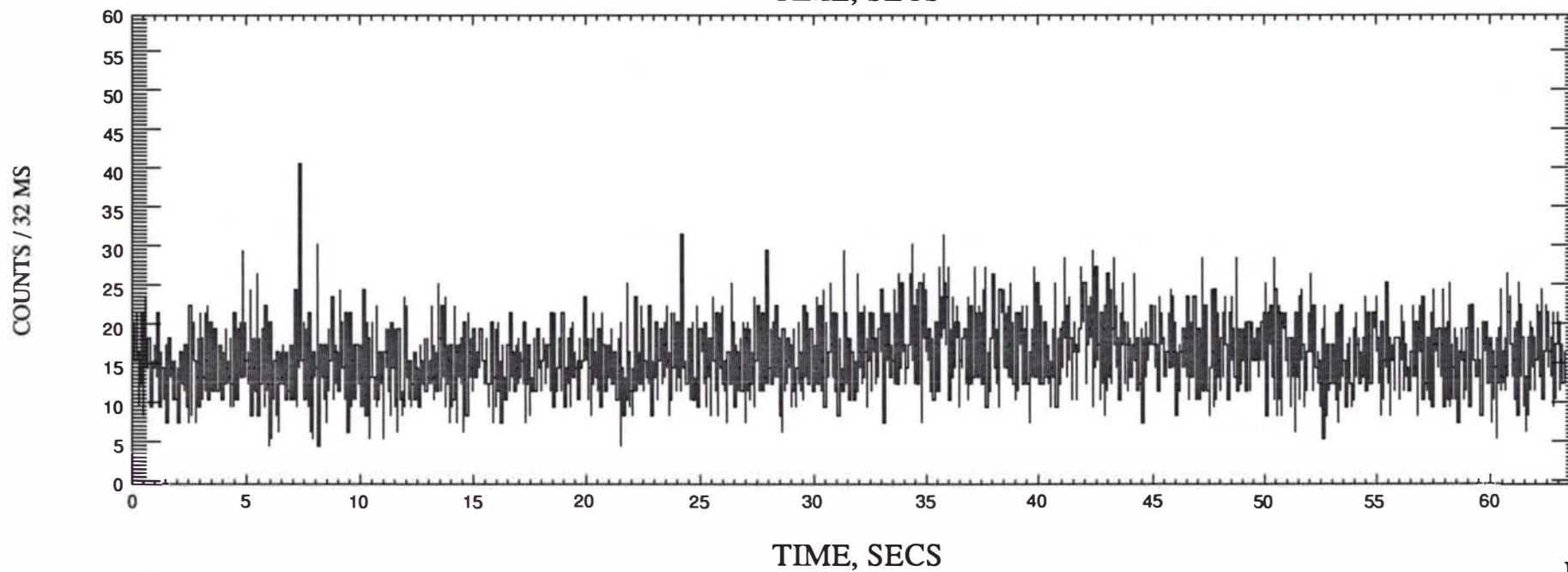
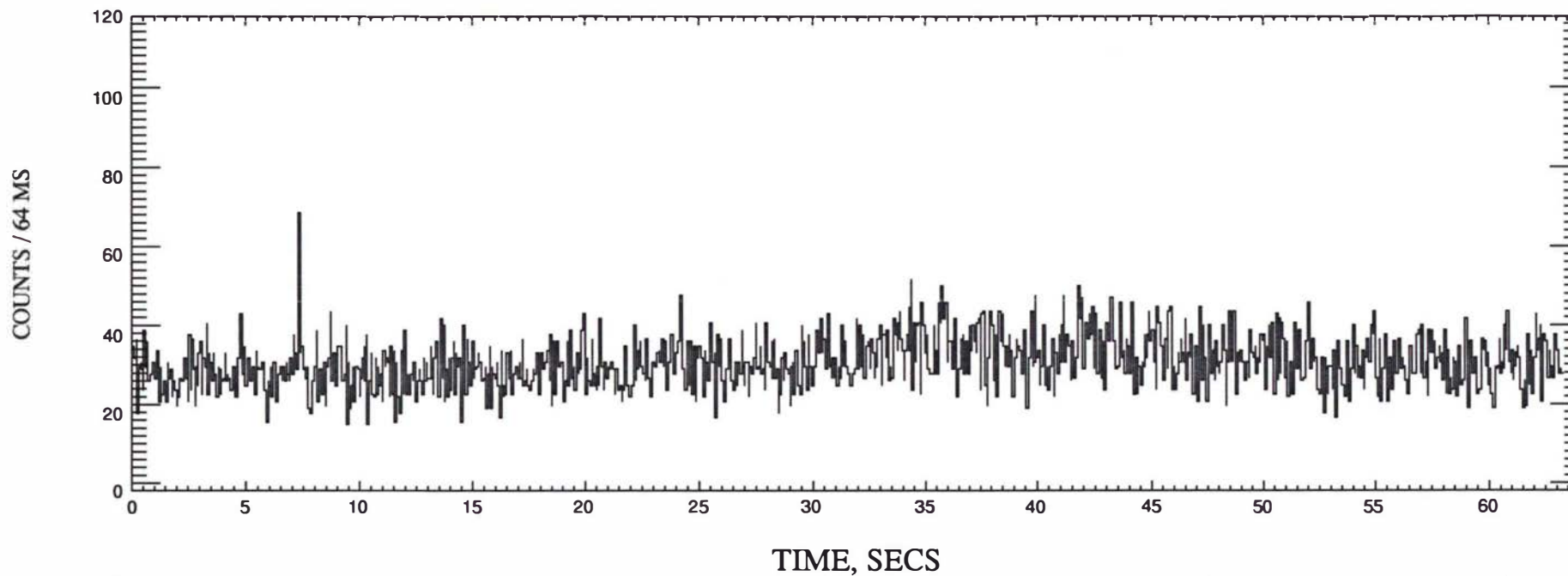
11/21/95

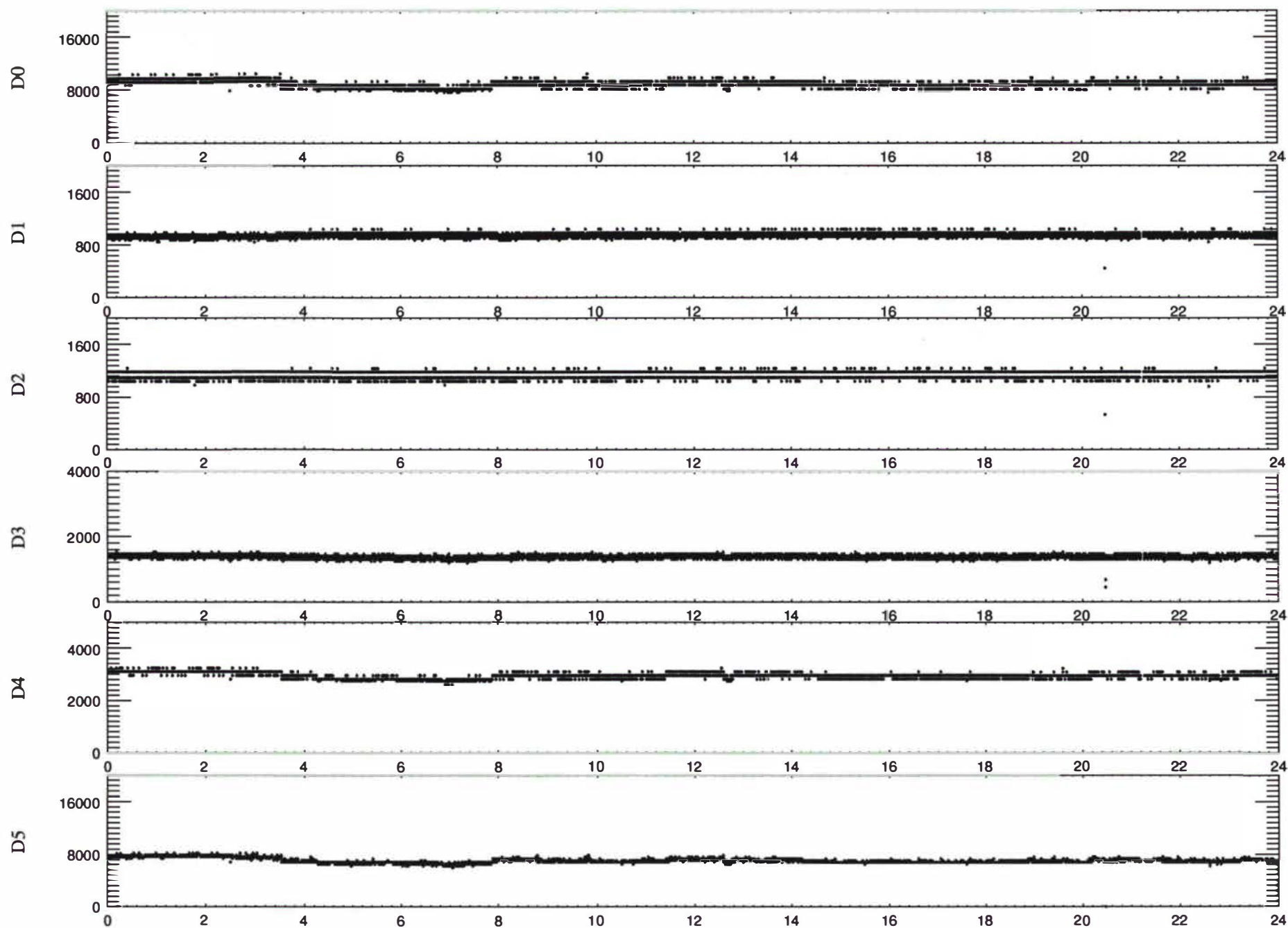


UNIVF AL TIME

HUS 2A TRIGGERED DATA EDR day 123, year 1995
Burst Counter 0 at UT=18.849831483629 h=67859.393 s 18:50:59.393

11/21/95





UNIV AL TIME

From ddupre@sstcx1.lanl.gov Fri May 5 17:37 PDT 1995
Date: Fri, 5 May 1995 18:37:52 -0600
Mime-Version: 1.0
To: khurley@sunspot.ssl.berkeley.edu
From: ddupre@sstcx1.lanl.gov (Diane Roussel-Dupre)
Subject: ALEXIS TOO Transient ALERT!!!!

ALEXIS has detected a transient in Telescope 2B (183 Angstroms, 66eV) at:

RA=251.23 Degrees (16 44 55)
DEC=-3.21 Degrees (-03 12.5m)
(Current Epoch)

Error circle radius = 0.5 degrees (~90% confidence)

There was no evidence of the object in the co-aligned telescope 2A (130 Angstroms, 93 eV). The outburst appeared to start early on 4 May, 1995 UT. In the latest data, this source is still visible. It initially appeared about as bright in Telescope 2B as HZ43, which was being observed simultaneously and has remained at that level in all of the 5 May, 1995 data. At the count HZ43 count rate, this source is about 0.15 photons/cm²/s/A.

It is currently near the edge of the FOV making precise flux and position measurements difficult. Simbad only show 15 sources within the error box with no good candidates for optical counterparts. Photographic plates taken at this time will aid in the identification of the optical counterpart.

This is the official ALEXIS project notification of the event

Diane Roussel-Dupre

Diane Roussel-Dupre, NIS-2
Los Alamos National Laboratory
Telephone: (505) 667-8895
FAX: (505) 665-4414

From HENZE@fender.msfc.nasa.gov Fri May 5 11:43 PDT 1995
Date: Fri, 5 May 1995 13:42:51 -0500 (CDT)
From: HENZE@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
15733SCHAEFER@fender.msfc.nasa.gov, CASS09BAND@fender.msfc.nasa.gov,
CASS09GRUBER@fender.msfc.nasa.gov, CASS09MATTESON@fender.msfc.nasa.gov,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03539

TIME: TJD=9841 SECONDS=16976

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HENZE@fender.msfc.nasa.gov Fri May 5 11:45 PDT 1995
Date: Fri, 5 May 1995 13:45:04 -0500 (CDT)
From: HENZE@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
15733SCHAEFER@fender.msfc.nasa.gov, CASS09BAND@fender.msfc.nasa.gov,
CASS09GRUBER@fender.msfc.nasa.gov, CASS09MATTESON@fender.msfc.nasa.gov,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03540

TIME: TJD=9841 SECONDS=25676

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENTS.

From HENZE@fender.msfc.nasa.gov Fri May 5 11:49 PDT 1995
Date: Fri, 5 May 1995 13:49:33 -0500 (CDT)
From: HENZE@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
15733SCHAEFER@fender.msfc.nasa.gov, CASS09BAND@fender.msfc.nasa.gov,
CASS09GRUBER@fender.msfc.nasa.gov, CASS09MATTESON@fender.msfc.nasa.gov,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03541

TIME: TJD=9841 SECONDS=61750

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

From HENZE@fender.msfc.nasa.gov Fri May 5 11:52 PDT 1995
Date: Fri, 5 May 1995 13:52:05 -0500 (CDT)
From: HENZE@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
15733SCHAEFER@fender.msfc.nasa.gov, CASS09BAND@fender.msfc.nasa.gov,
CASS09GRUBER@fender.msfc.nasa.gov, CASS09MATTESON@fender.msfc.nasa.gov,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03542

TIME: TJD=9841 SECONDS=67650

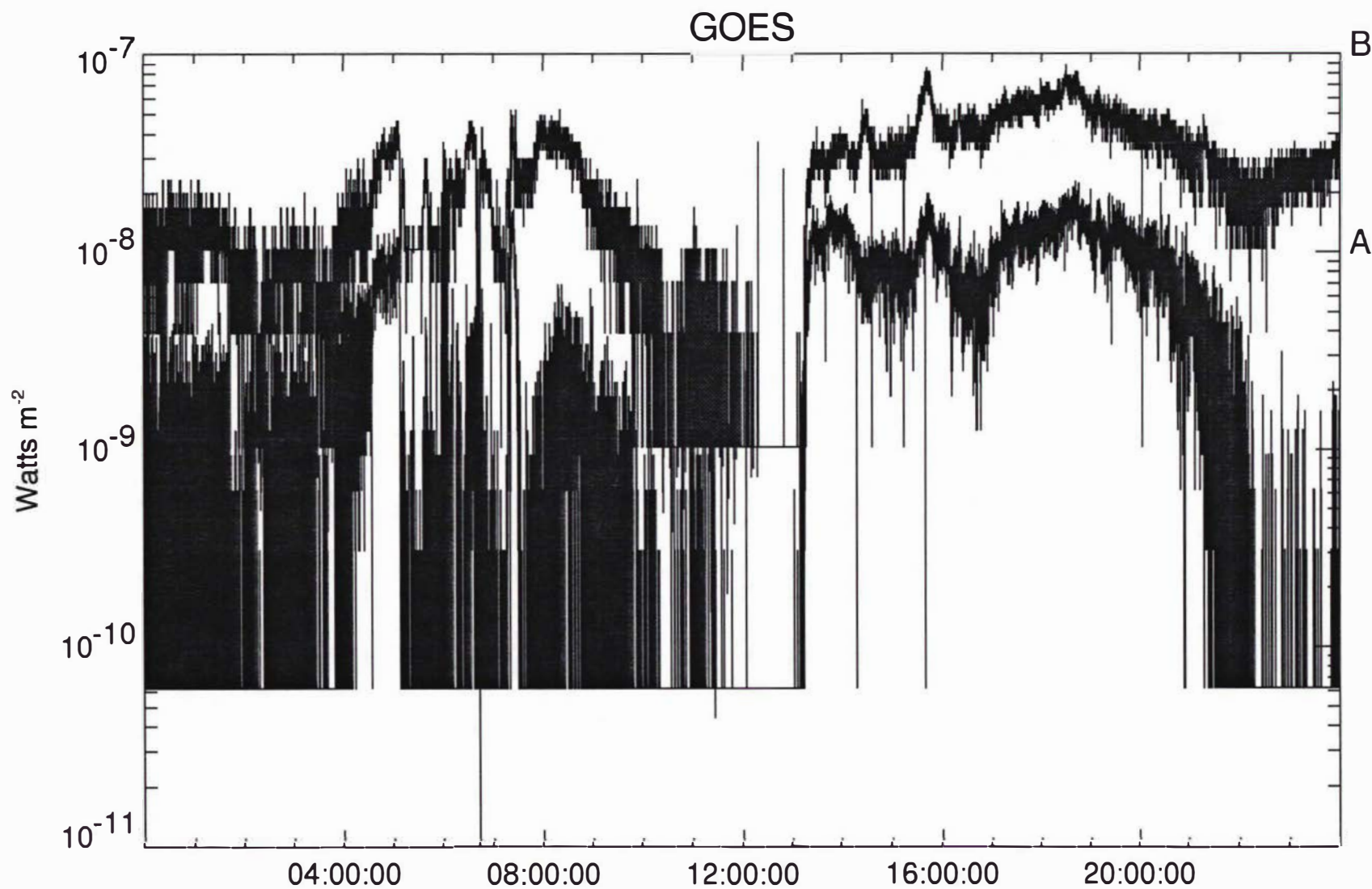
TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.



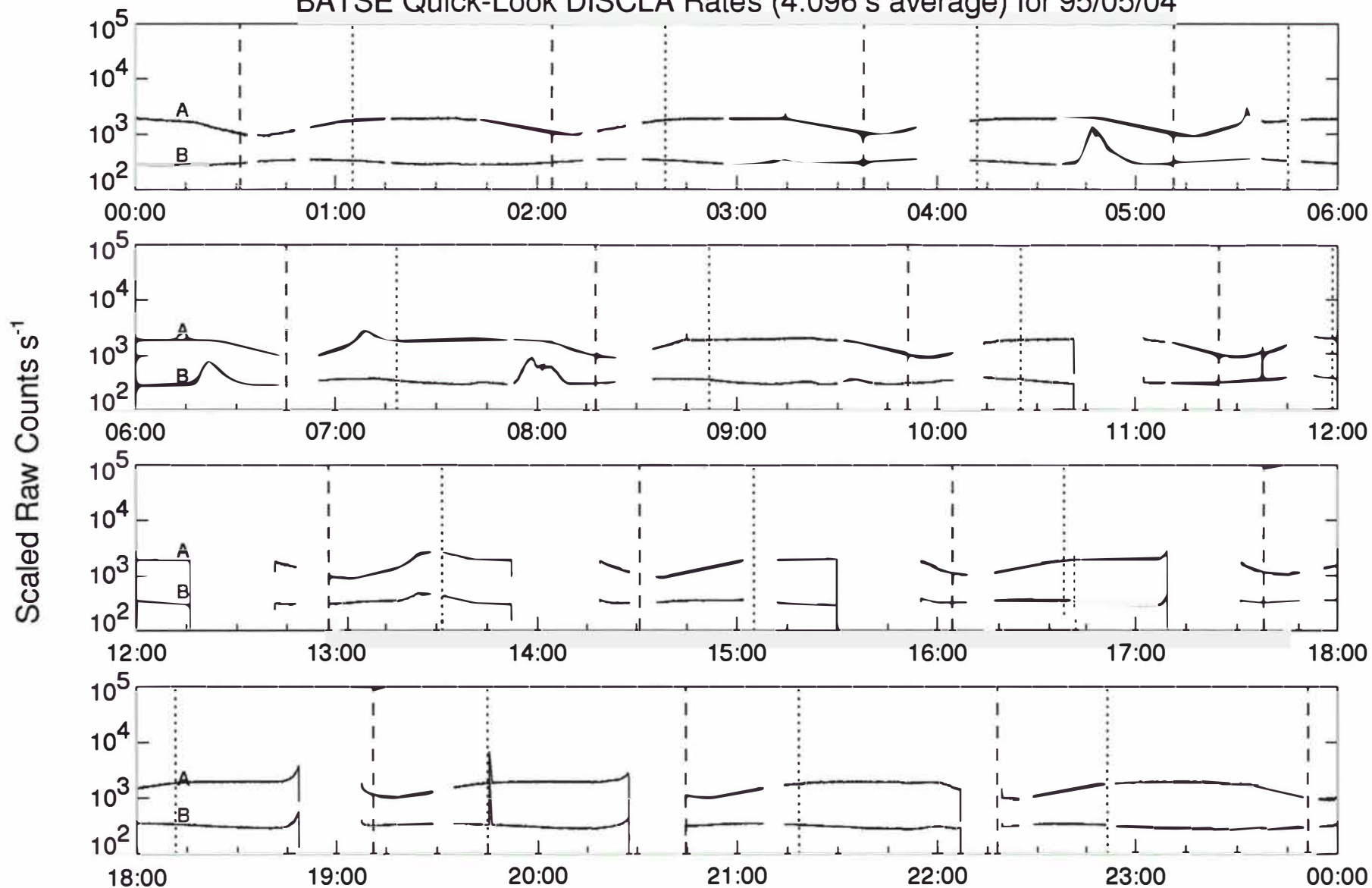
Data Start: 95/05/04, 0000:02

Plot created: 95/05/06, 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 95/05/04



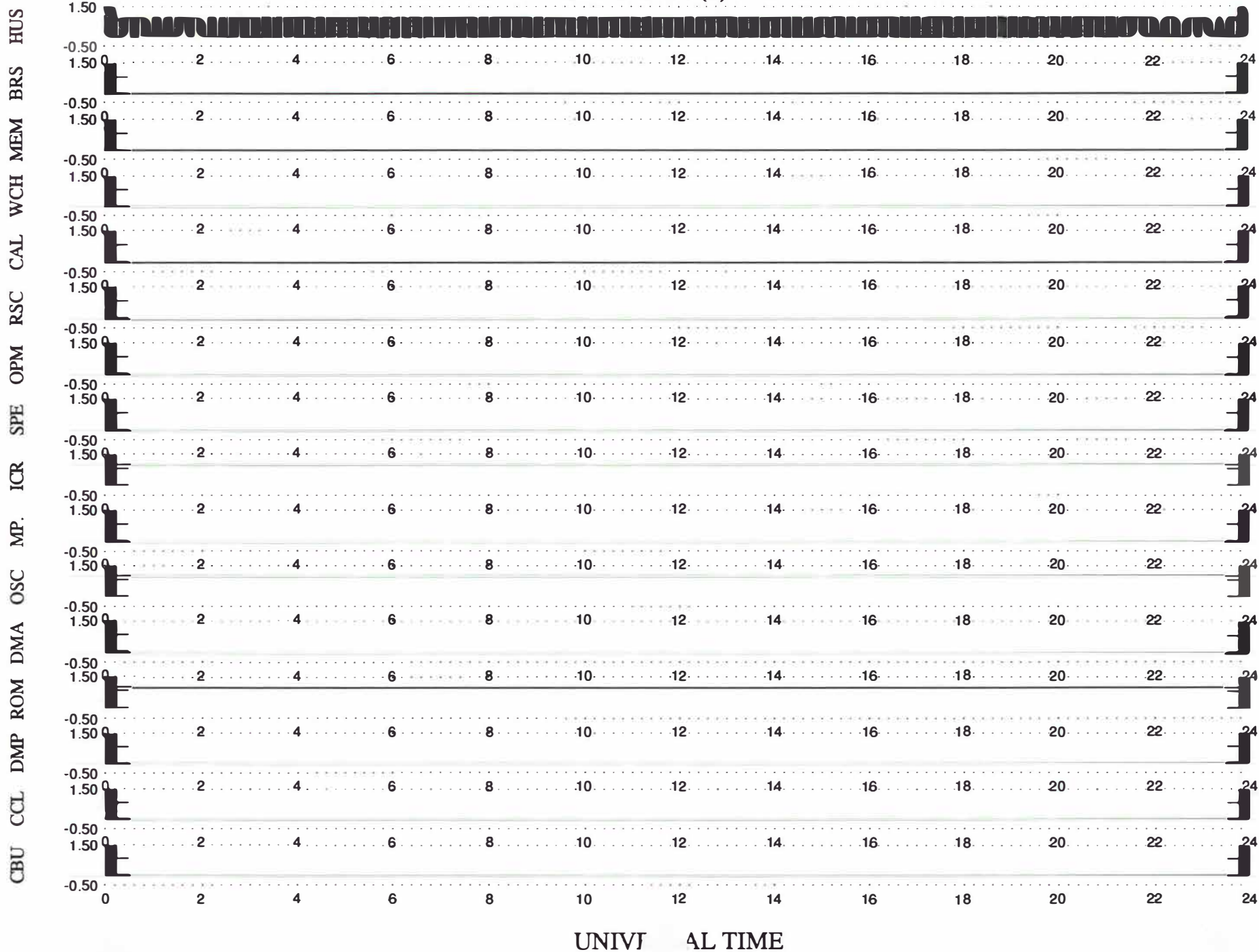
Current Time: 95/05/11, 1724 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

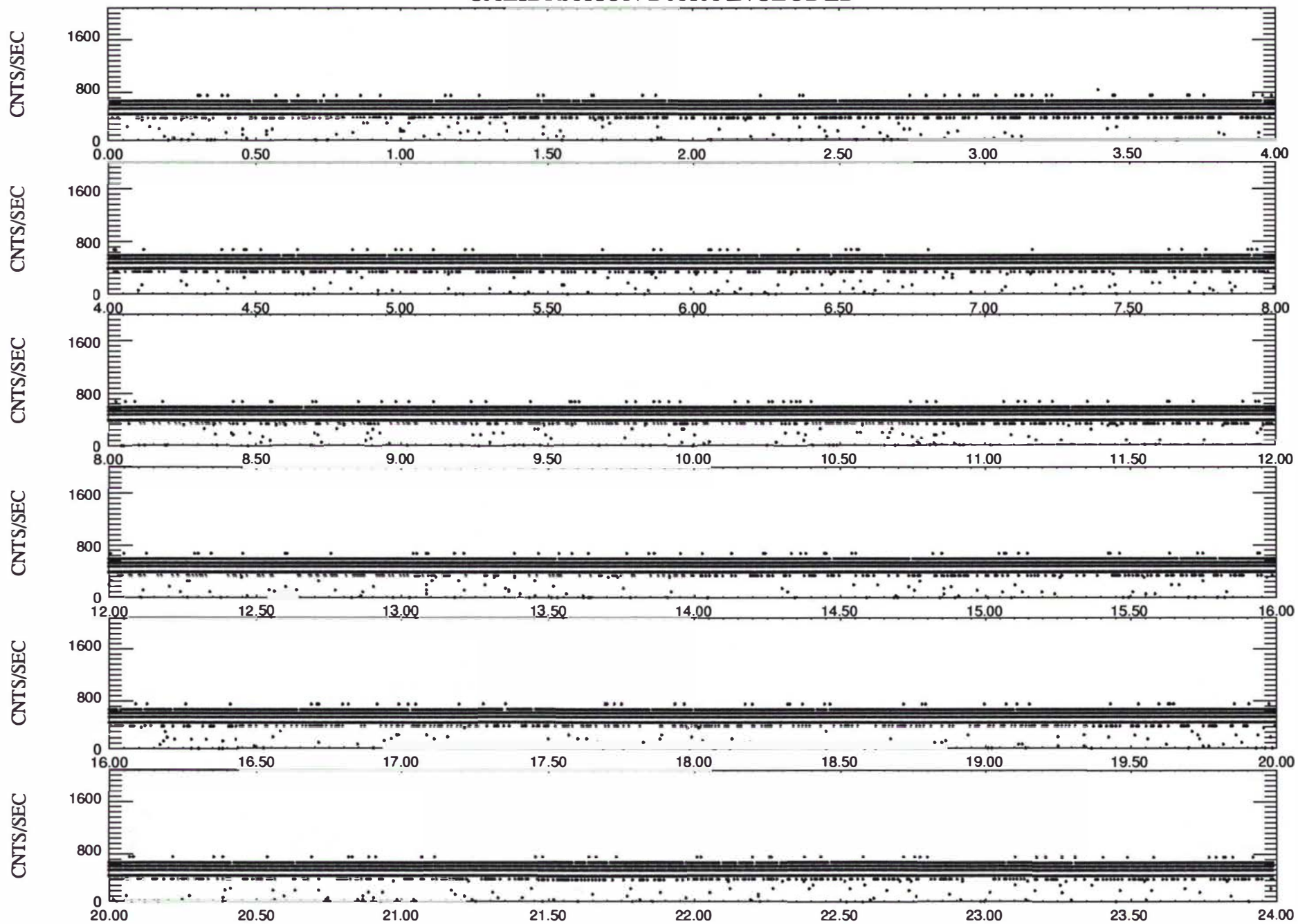
HUS MODES EDR day 124, year 1995 to day 124, year 1995
NO BURST (0)

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 124, year 1995 to day 124, year 1995
CALIBRATION DATA INCLUDED

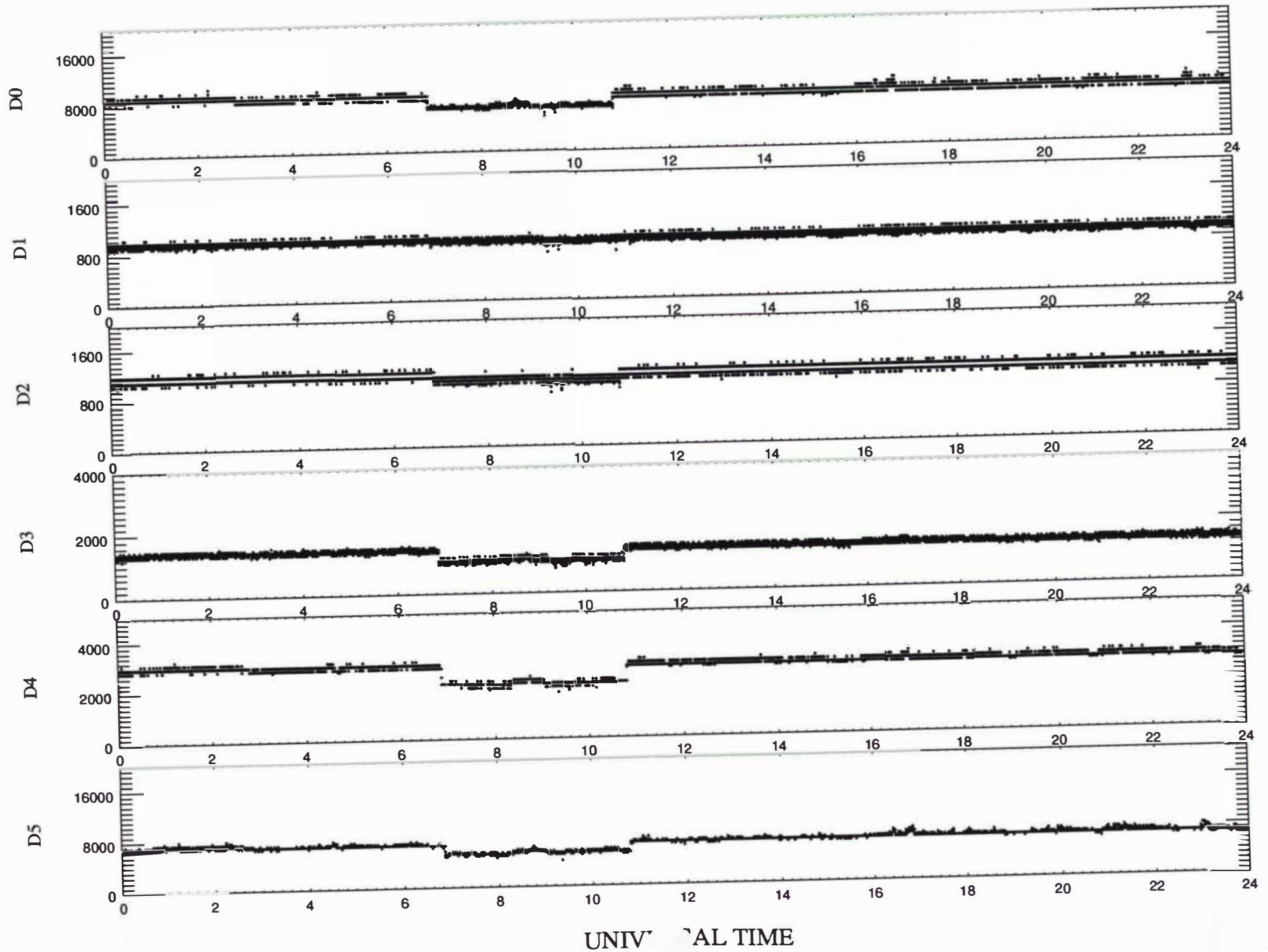
11/21/95



UNIVF AL TIME

HUS 2B COUNTS / SEC QEDR day 124, year 1995 to day 124, year 1995

5/5/95



From HAGEDON@ssl.msfc.nasa.gov Tue May 9 08:50 PDT 1995
Date: Tue, 9 May 1995 10:49:52 -0500 (CDT)
From: HAGEDON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3543

TIME: TJD=9842 SECONDS=14579

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@ssl.msfc.nasa.gov Tue May 9 08:54 PDT 1995
Date: Tue, 9 May 1995 10:53:54 -0500 (CDT)
From: HAGEDON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3544

TIME: TJD=9842 SECONDS=23126

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@fender.msfc.nasa.gov Tue May 9 10:26 PDT 1995
Date: Tue, 9 May 1995 12:26:24 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3545

BATSEARCH PROGRAM

NO

BATSE BURST # 3545
EVENT OF 1995 MAY 5 DAY OF YEAR=125
EVENT CROSSING TIME AT BATSE : 45193. S. OR 12:33:13.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 148.000 -73.000
BATSE PEAK COUNTING RATE: 4600 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 5/ 5/ 95 IS:
RA= 0.818 DEC= 28.919 DIST= 2.105 AU
BATSE-ULYSSES DISTANCE = 314883785. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 47.35 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 711.62 SECS.
CROSSING TIME AT ULYSSES IS 45905. S. OR 12:45:04 +/- 194.93 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 5/ 5/ 95 IS:
RA= 144.608 DEC= 16.209 DIST= 1.184 AU
MARS-BATSE DISTANCE = 177157312. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 90.76 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -7.87 SECS.
CROSSING TIME AT MARS IS 45185. S. OR 12:33:05 +/- 102.47 SECONDS

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3545	950505	9842	45193	4600	148	-73	2

BATSE BURST TRIGGER

NO.: 3545

TIME: TJD=9842 SECONDS=45193

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=120 AZIMUTH=120 ERROR= DEGREES

COMMENTS:

BURST. SINGLE PULSE WITH SUBSTRUCTURE. DUR.~2 SEC. POSSIBLE EXTENDED
EMISSION TO ~T+30 SEC. VISIBLE ABOVE 300 KEV.

9 / 5 / 95

ULYSSES RT

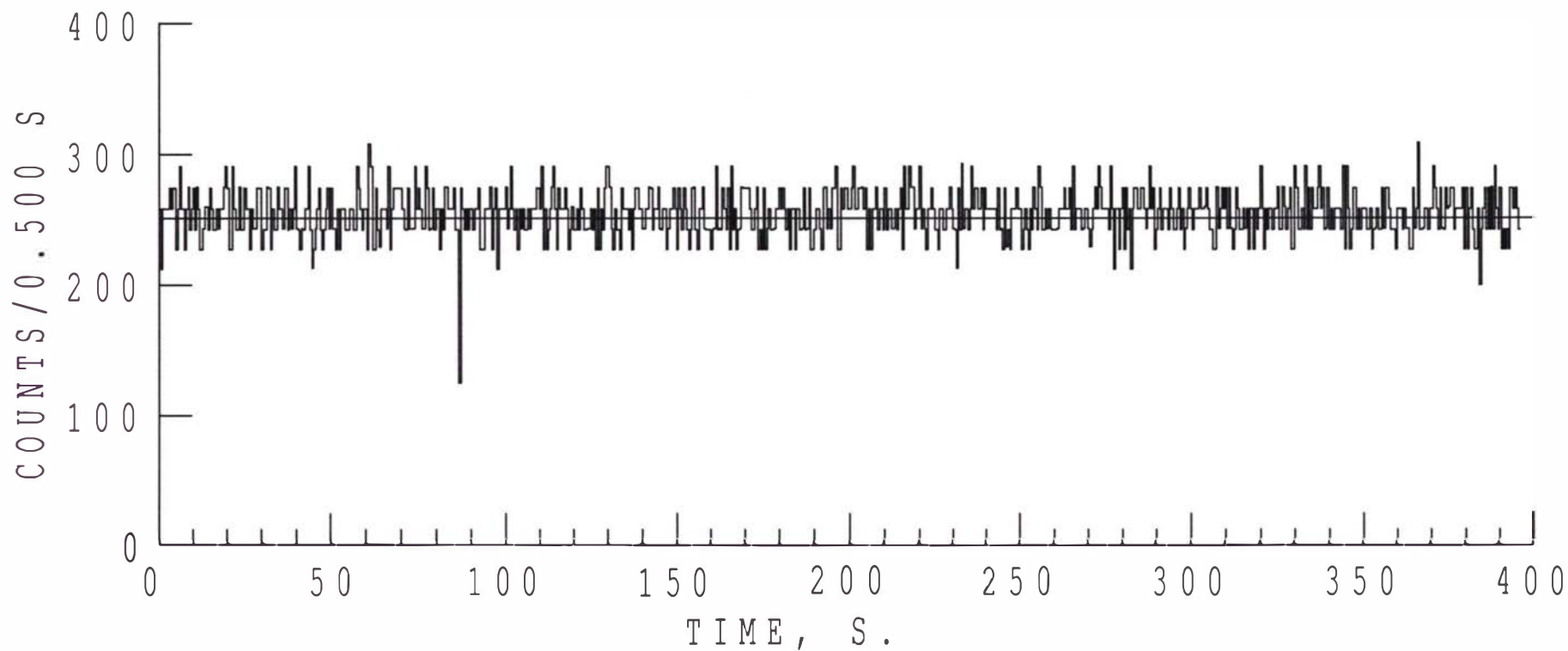
5 / 5 / 95 45720.160 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



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

From cline@lheavx.gsfc.nasa.gov Fri Feb 2 05:41 PST 1996
 Date: Fri, 2 Feb 1996 05:41:51 -0800
 Mime-Version: 1.0
 To: Bonnard.Teegarden@cesr.cnes.fr, KHURLEY@sunspot.ssl.berkeley.edu,
 palmer@lheamail.gsfc.nasa.gov, seifert@lheamail.gsfc.nasa.gov
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: For Your INFO

Dear Bonnard, Kevin, David, Helmut:

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

- TLC

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

K O N U S

1 5 / 2 / 9 6

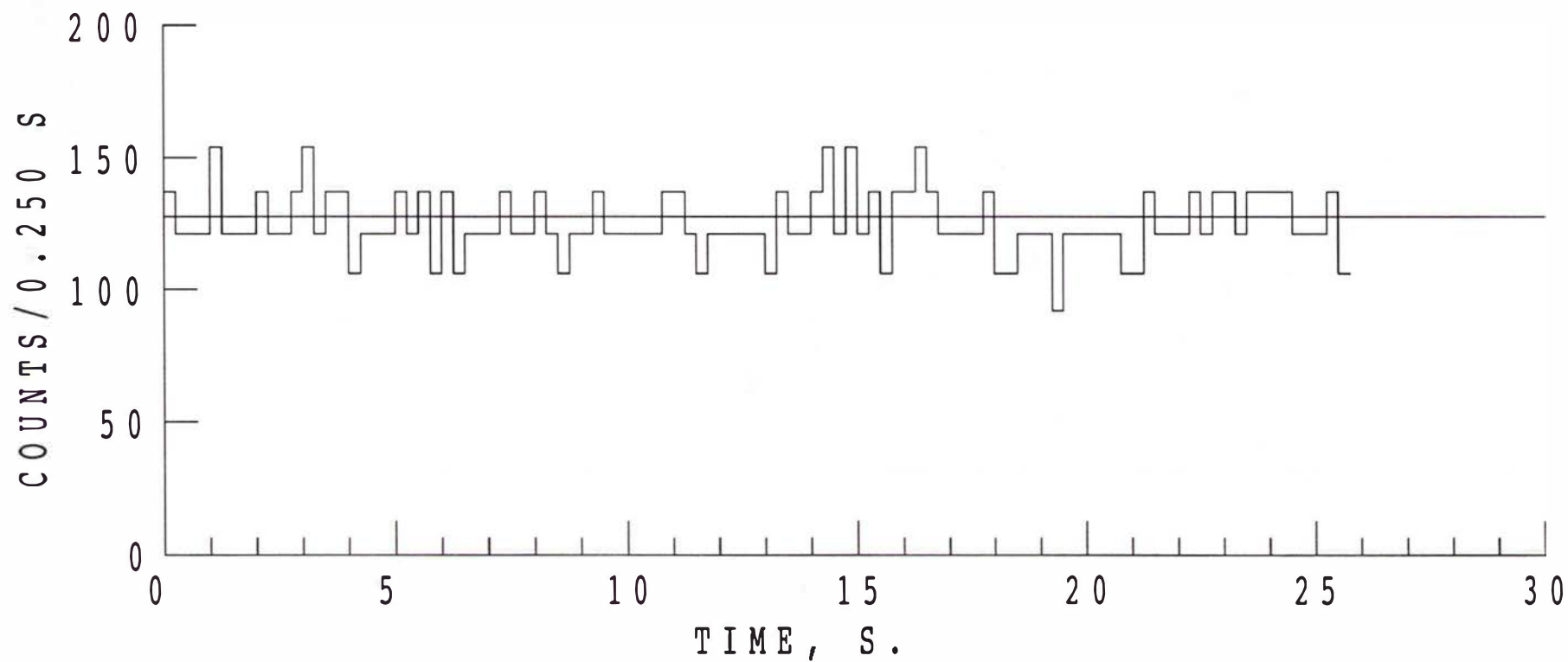
U L Y S S E S R T

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

0 - 0 k e V

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From DEAL@ssl.msfc.nasa.gov Tue May 9 07:19 PDT 1995
Date: Tue, 9 May 1995 9:19:50 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3546

TIME: TJD=9842 SECONDS=65058

TYPE: SAA ENT SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY

From DEAL@ssl.msfc.nasa.gov Tue May 9 07:14 PDT 1995
Date: Tue, 9 May 1995 9:14:28 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3547

TIME: TJD=9842 SECONDS=76815

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

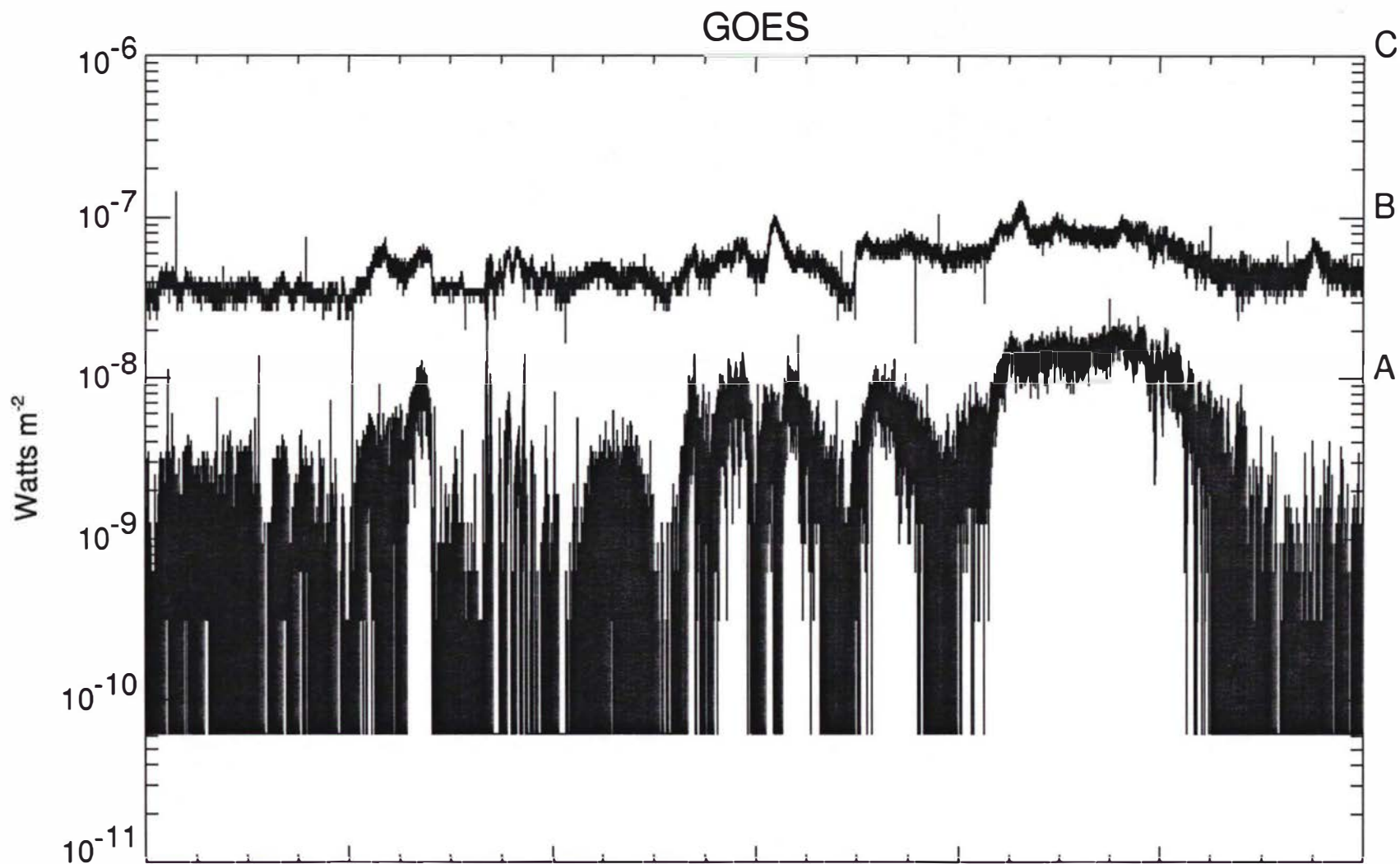
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

SAA ENTRY



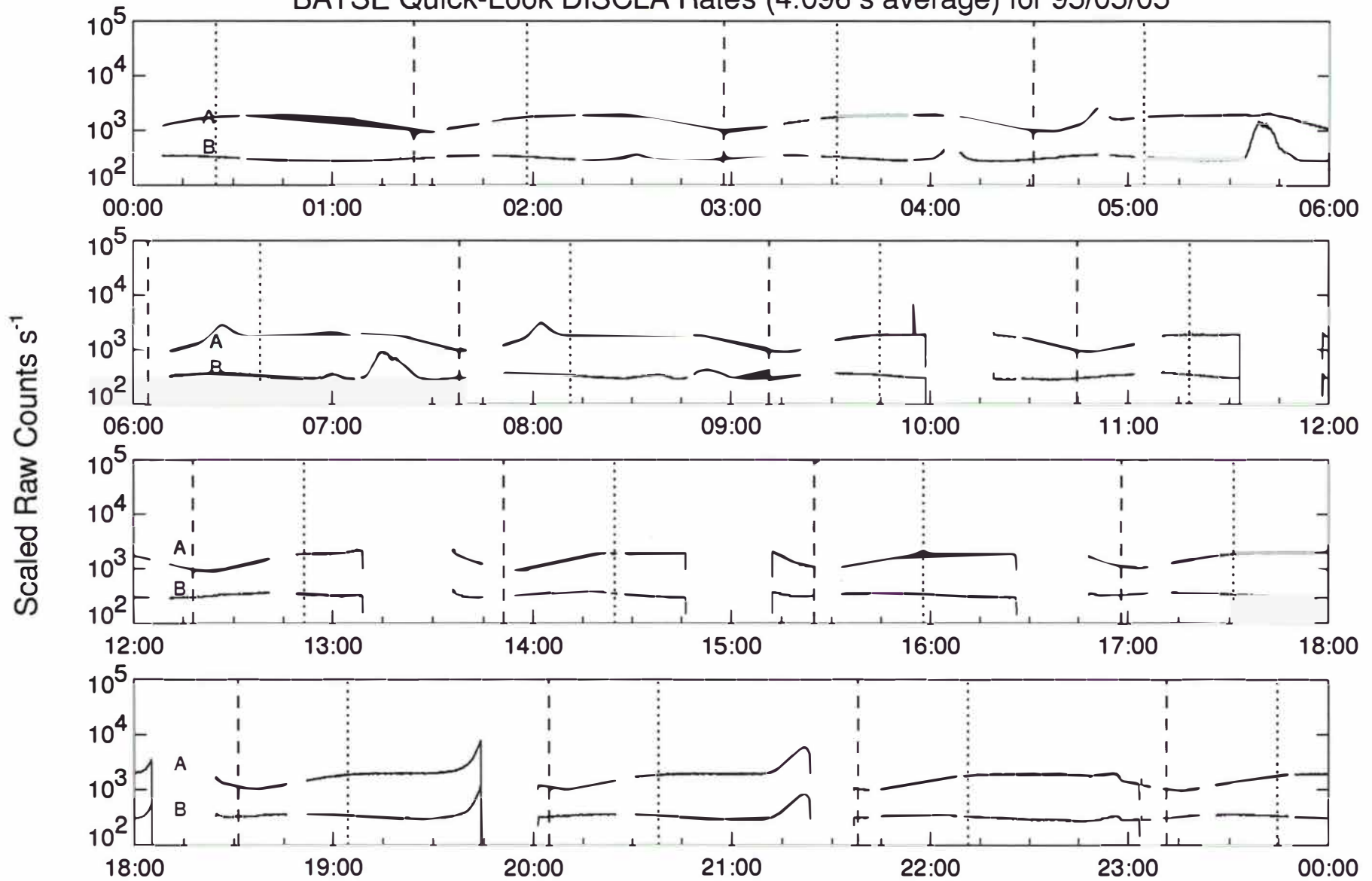
Data Start: 95/05/05, 0000:00

Plot created: 95/05/07, 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 95/05/05

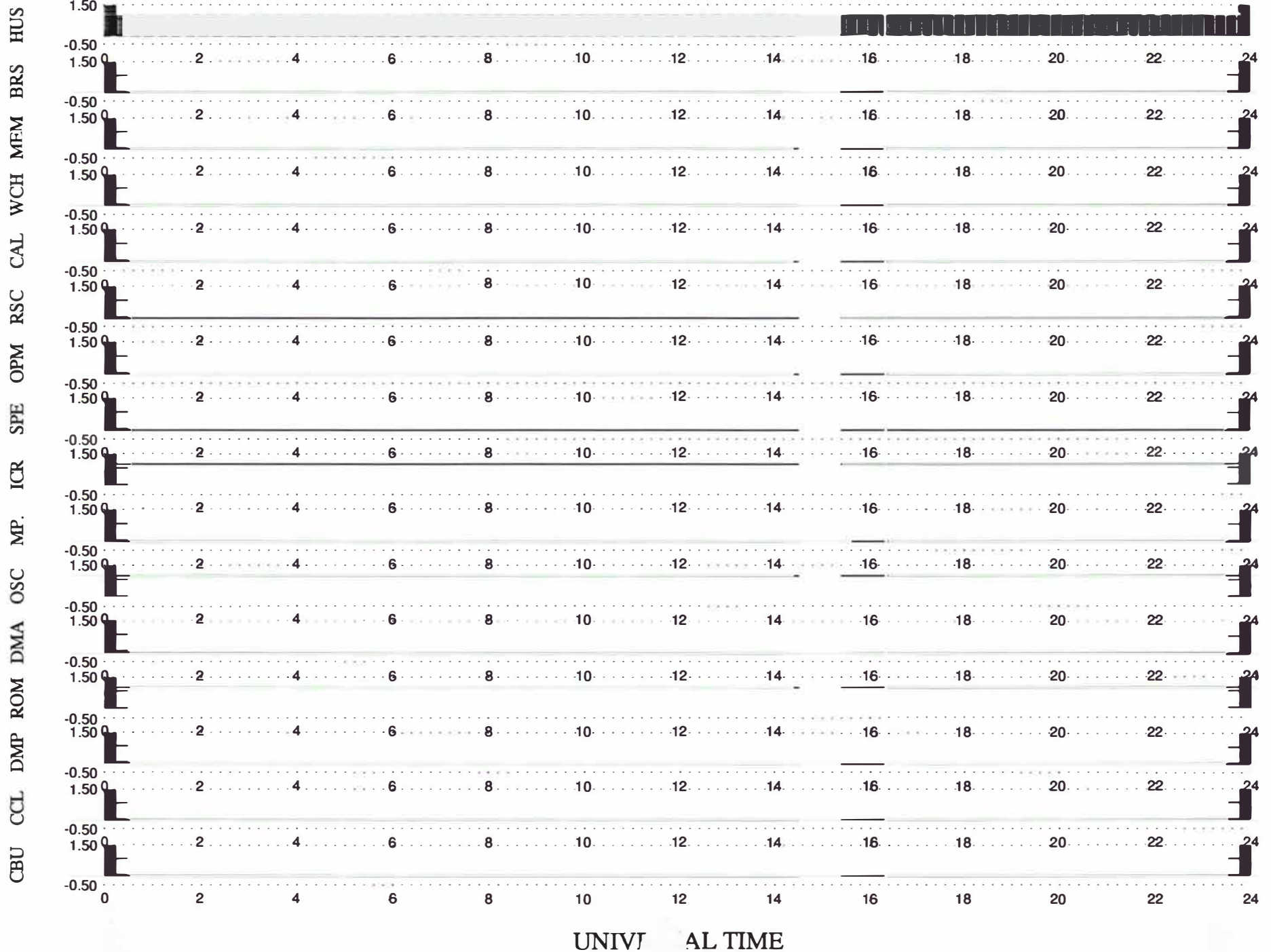


Current Time: 95/05/11, 1823 EDT
A: Channel 0 Most Sunward LAD
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

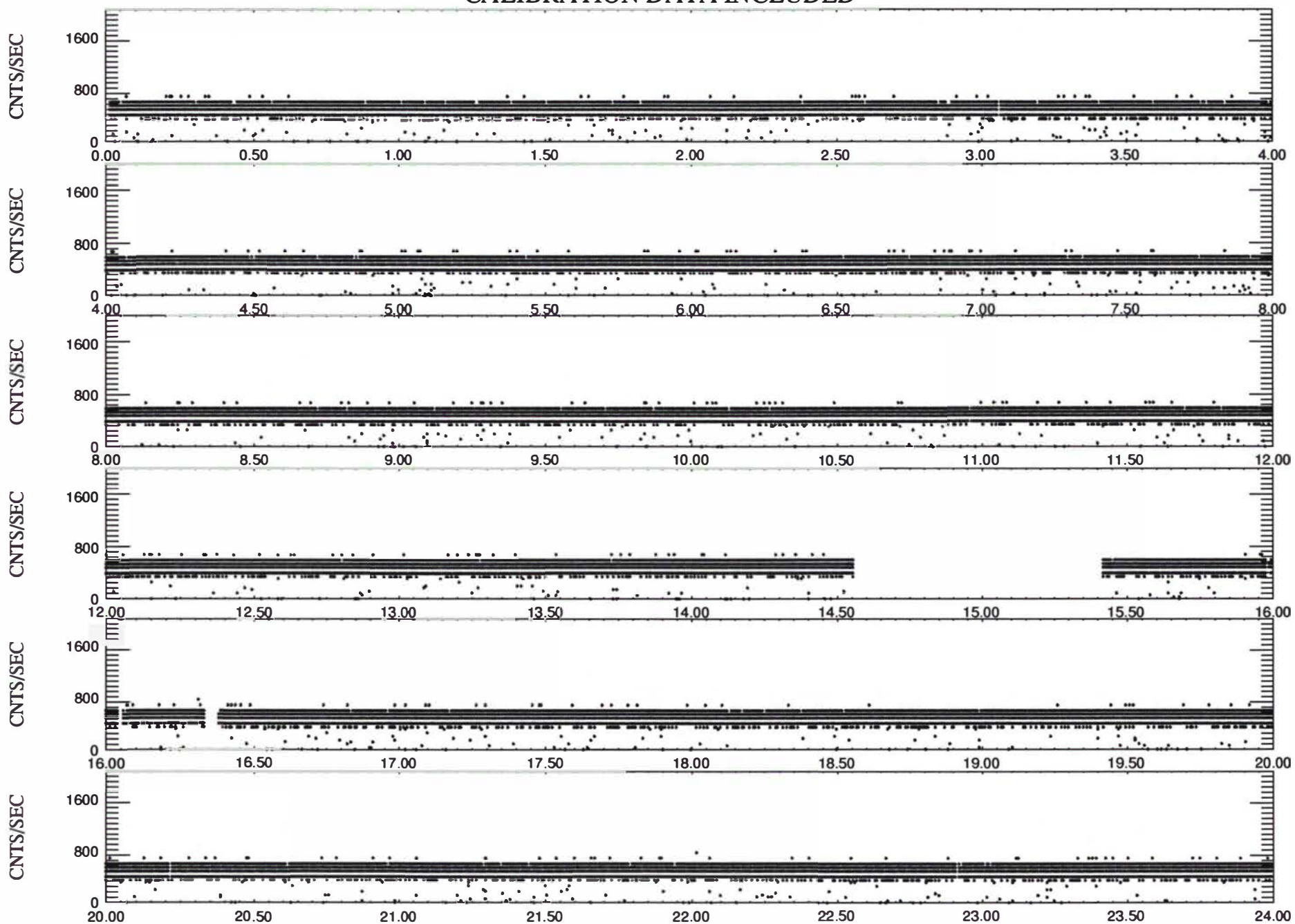
* Solar Burst Trigger
+ Solar Flare

11/21/95

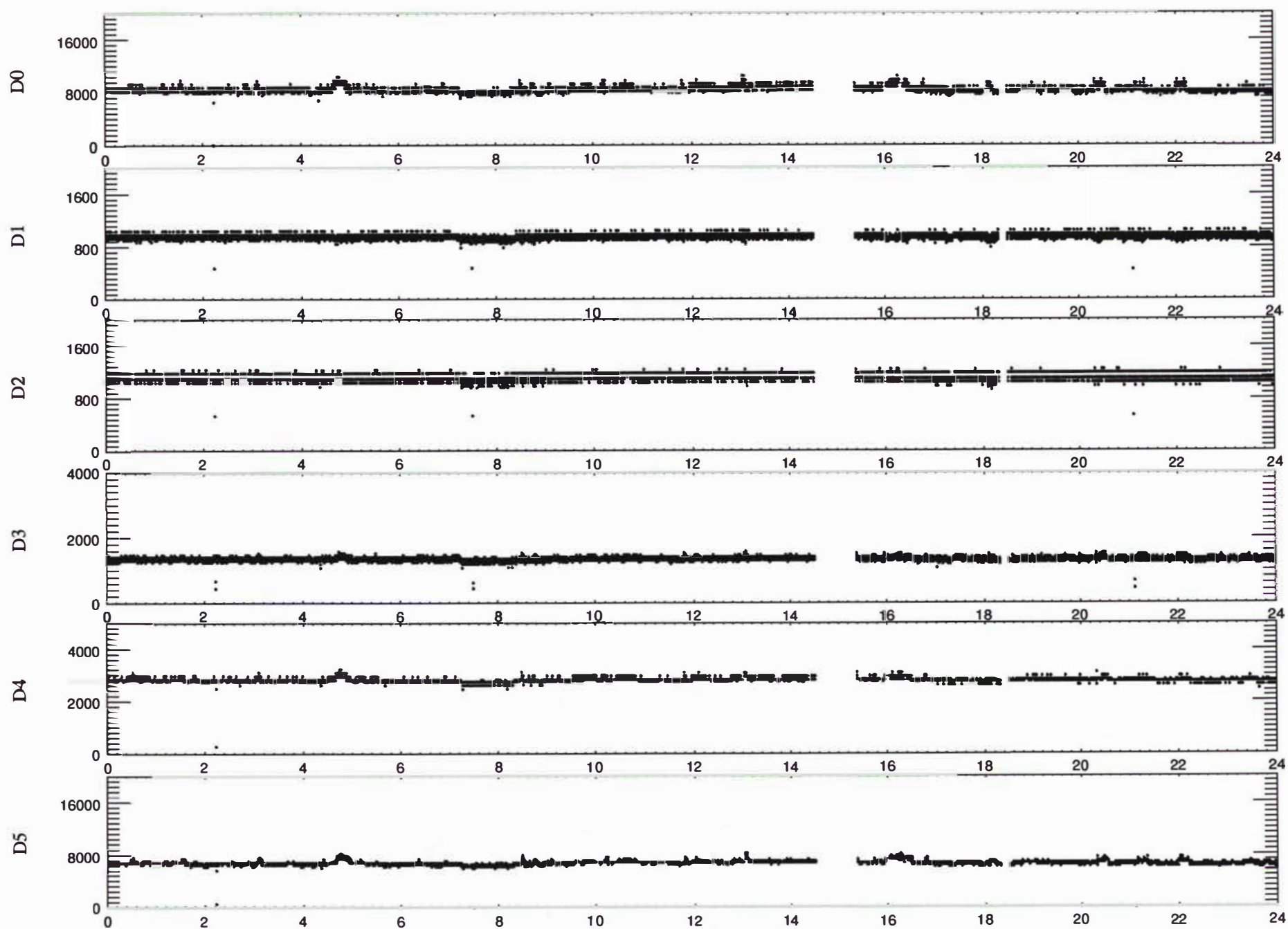


HUS 2A, MODE 1, NOT AVERAGED EDR day 125, year 1995 to day 125, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIVERSAL TIME



UNIVERSAL TIME

From SAHI@ssl.msfc.nasa.gov Thu May 11 07:42 PDT 1995
Date: Thu, 11 May 1995 9:41:55 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3548

TIME: TJD=9843 SECONDS=11946

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From SAHI@ssl.msfc.nasa.gov Thu May 11 07:50 PDT 1995
Date: Thu, 11 May 1995 9:50:01 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3549

TIME: TJD=9843 SECONDS=28439

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From SAHI@ssl.msfc.nasa.gov Tue May 9 10:37 PDT 1995
Date: Tue, 9 May 1995 12:37:33 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3550

TIME: TJD=9843 SECONDS=56540

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

TRIGGERED UPON ENTRY INTO SAA.

From SAHI@SSLLES.MSFC.NASA.GOV Tue May 9 10:40 PDT 1995
Date: Tue, 9 May 1995 12:39:58 -0500 (CDT)
From: SAHI@ssl.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3551

TIME: TJD=9843 SECONDS=62327

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

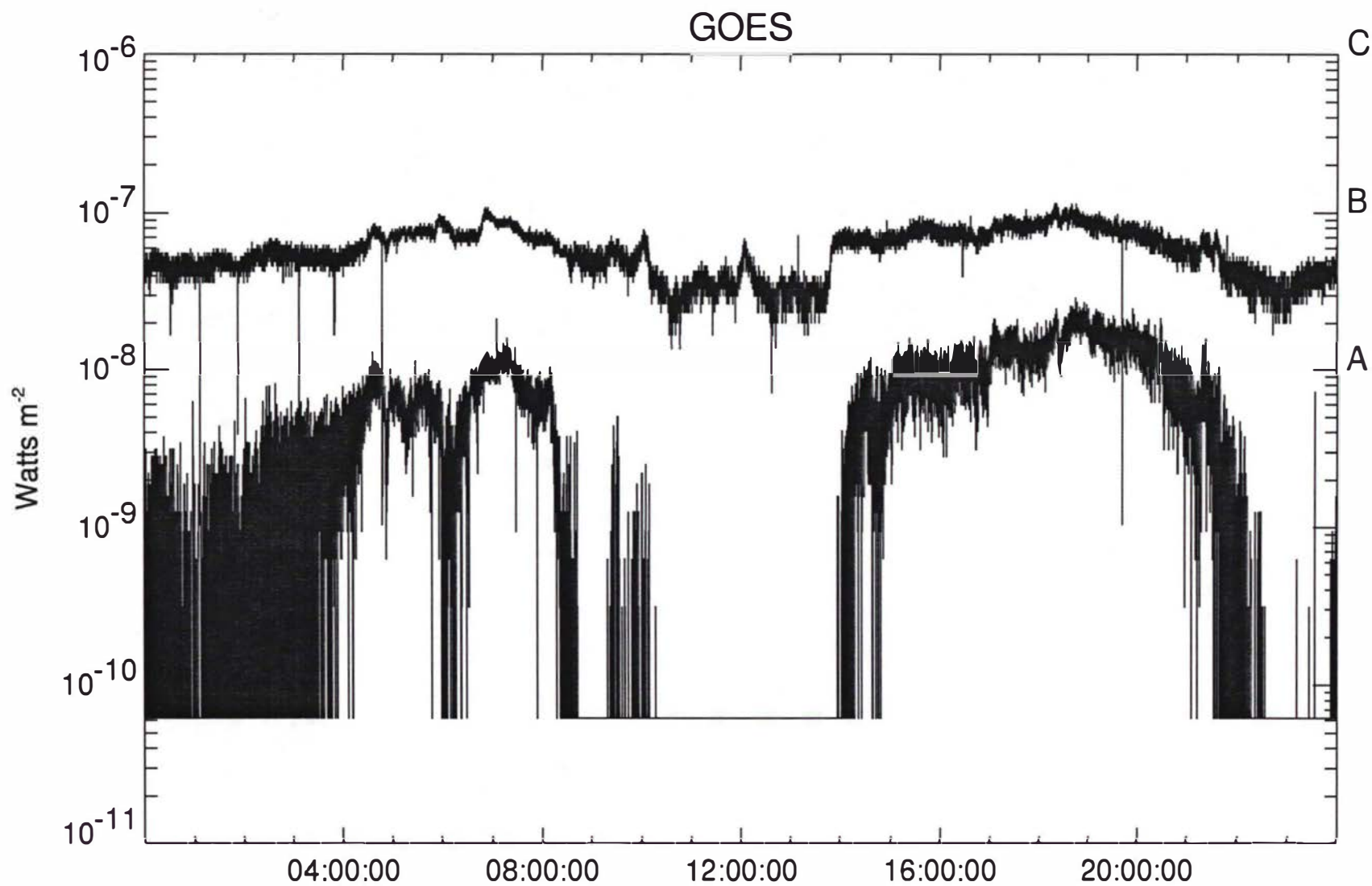
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

TRIGGERED UPON ENTRY INTO SAA.



Data Start: 95/05/06, 0000:01

Plot created: 95/05/08, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

9 / 5 / 95

ULYSSES RT

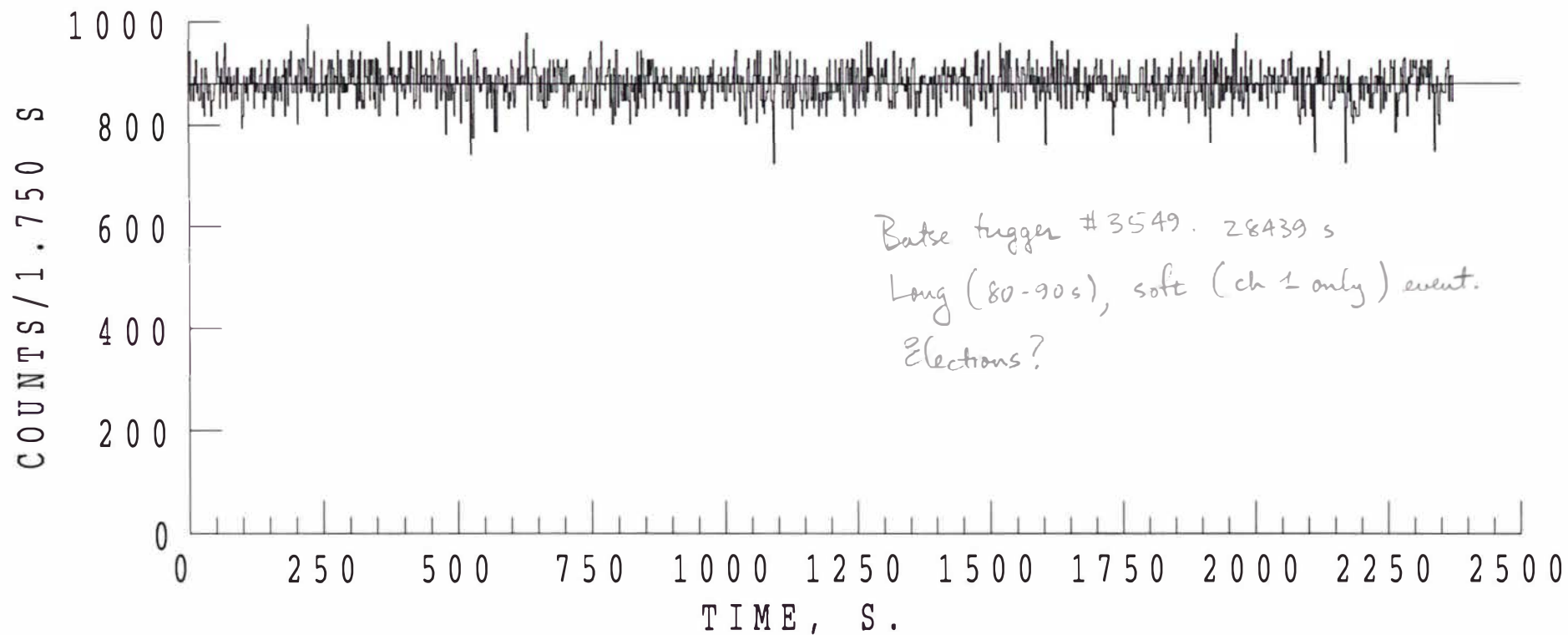
6 / 5 / 95 27252.008 s

0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From SAHI@SSLLES.MSFC.NASA.GOV Tue May 9 10:33 PDT 1995
Date: Tue, 9 May 1995 12:33:25 -0500 (CDT)
From: SAHI@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3552

BATSEARCH PROGRAM

BATSE BURST # 3552
EVENT OF 1995 MAY 6 DAY OF YEAR=126
EVENT CROSSING TIME AT BATSE : 84312. S. OR 23:25:12.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 336.000 84.000
BATSE PEAK COUNTING RATE: 2700 C/S

ND

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 6/ 5/ 95 IS:
RA= 1.296 DEC= 30.000 DIST= 2.098 AU
BATSE-ULYSSES DISTANCE = 313914844. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=125.39 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -606.39 SECS.
CROSSING TIME AT ULYSSES IS 83706. S. OR 23:15:05 +/- 189.00 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 6/ 5/ 95 IS:
RA= 144.954 DEC= 16.065 DIST= 1.193 AU
MARS-BATSE DISTANCE = 178462912. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=100.17 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -105.14 SECS.
CROSSING TIME AT MARS IS 84207. S. OR 23:23:26 +/- 100.13 SECONDS

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3552	950506	9843	84312	2700	336	+84	35

BATSE BURST TRIGGER

NO.: 3552

TIME: TJD=9843 SECONDS=84312

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

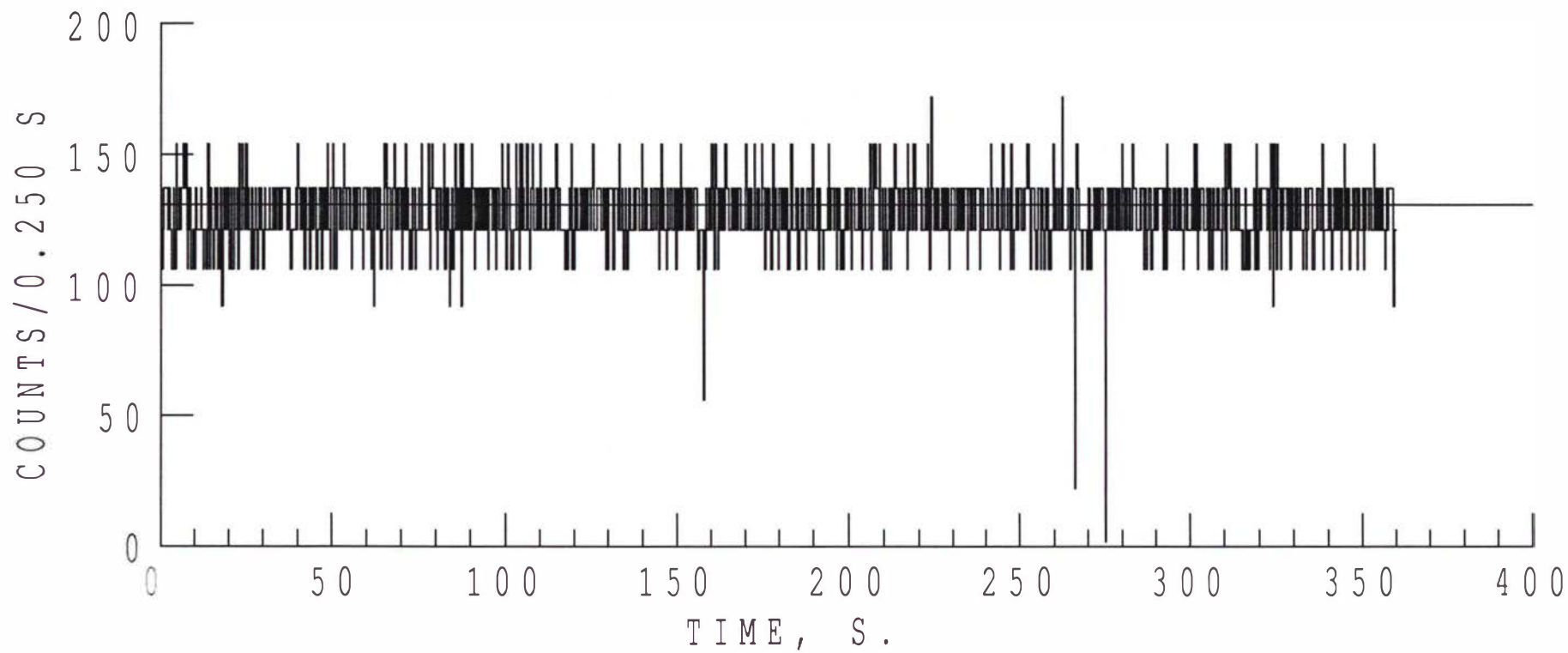
LOCATION: ZENITH=49.9 AZIMUTH=305.9 ERROR= DEGREES

COMMENTS:
SINGLE PULSE DUR.~25 SECS. NOT VISIBLE ABOVE 300 KEV.

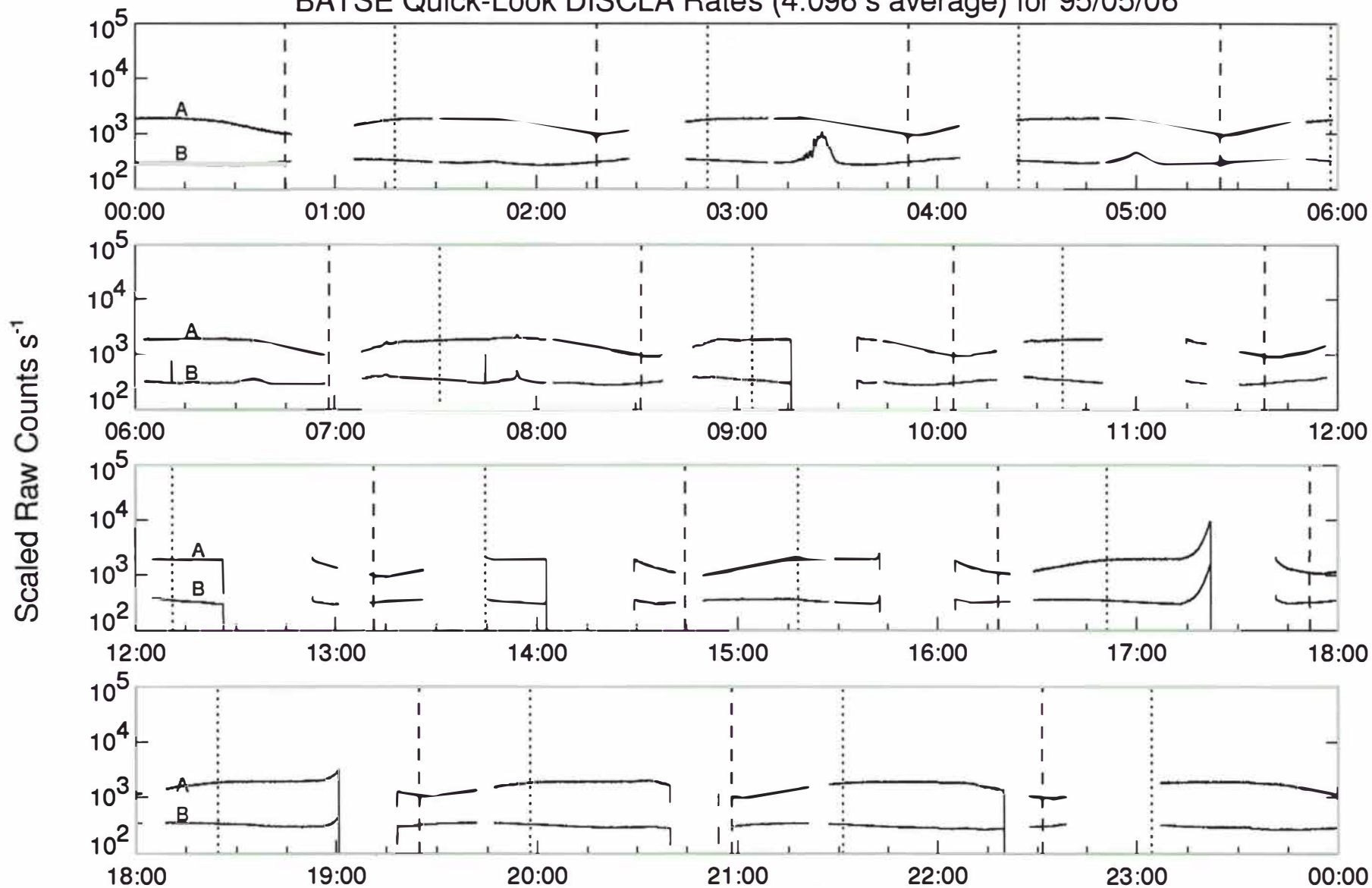
9 / 5 / 95

ULYSSES RT
6 / 5 / 95 83520.086 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/06

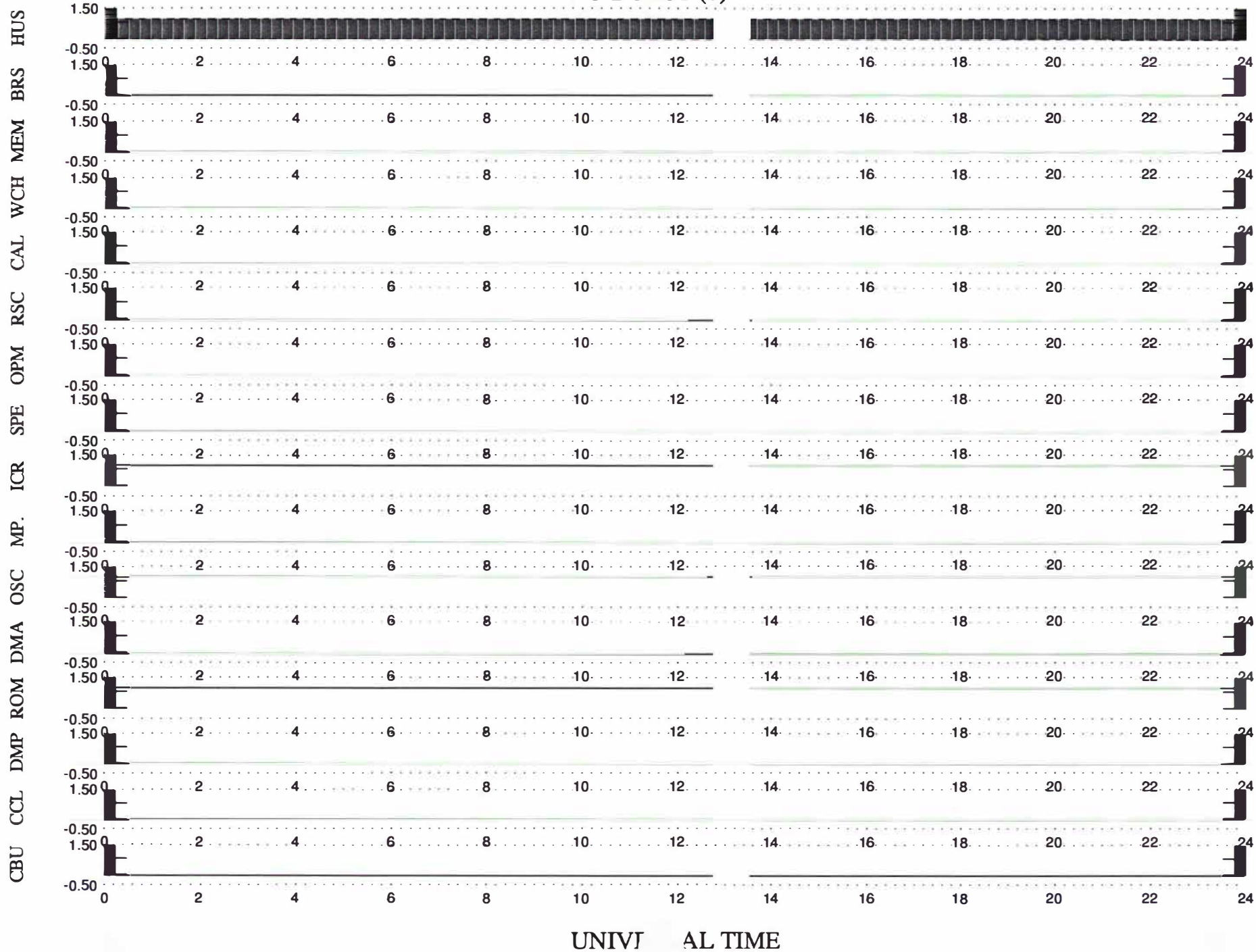


Current Time: 95/05/11, 1827 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

11/21/95

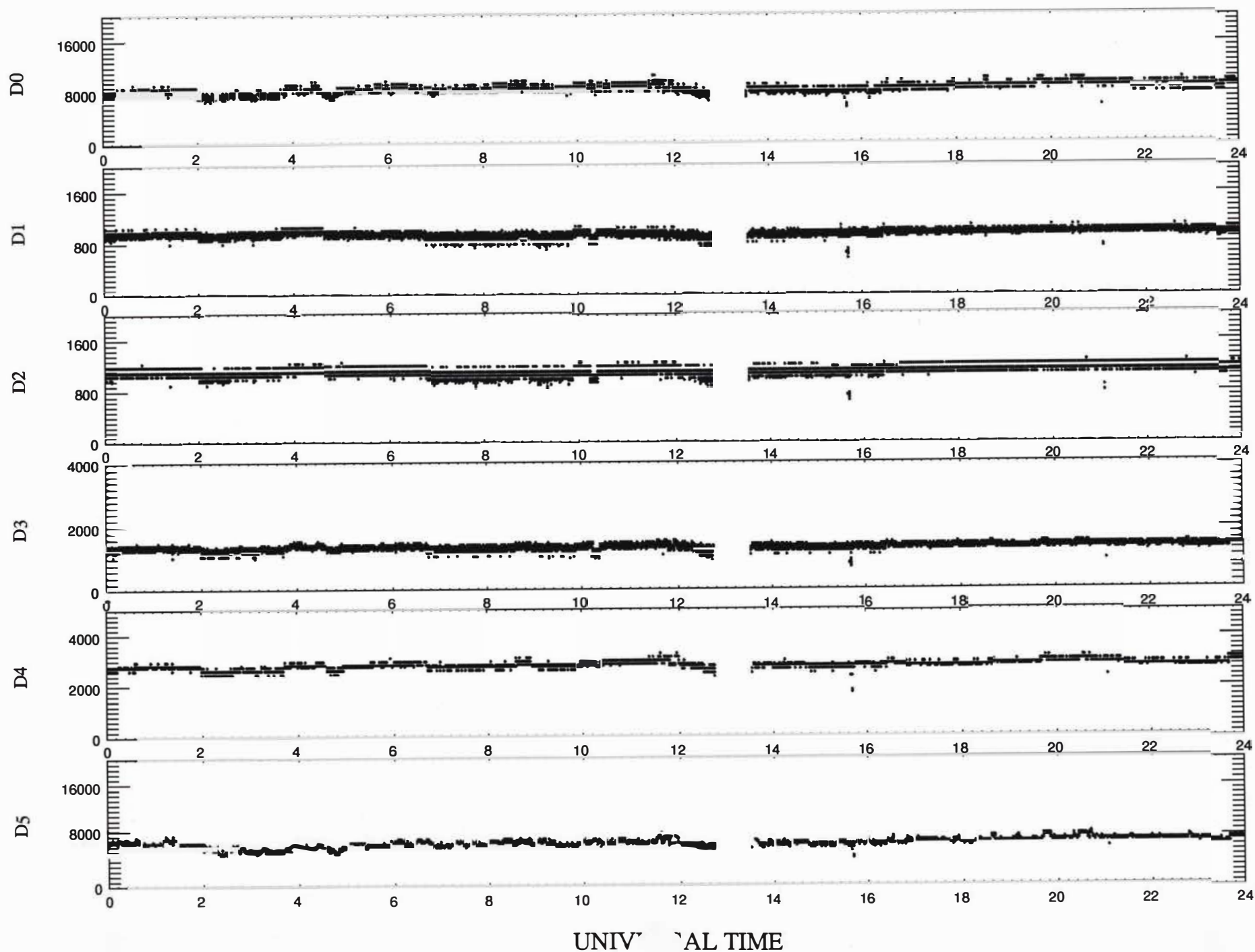


HUS 2A, MODE 1, NOT AVERAGED EDR day 126, year 1995 to day 126, year 1995
 CALIBRATION DATA INCLUDED

11/21/95



UNIV. TIME



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

From cline@lheavx.gsfc.nasa.gov Fri Feb 2 05:41 PST 1996
 Date: Fri, 2 Feb 1996 05:41:51 -0800
 Mime-Version: 1.0
 To: Bonnard.Teegarden@cesr.cnes.fr, KHURLEY@sunspot.ssl.berkeley.edu,
 palmer@lheamail.gsfc.nasa.gov, seifert@lheamail.gsfc.nasa.gov
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: For Your INFO

Dear Bonnard, Kevin, David, Helmut:

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

- TLC

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

Date: Aug 24 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

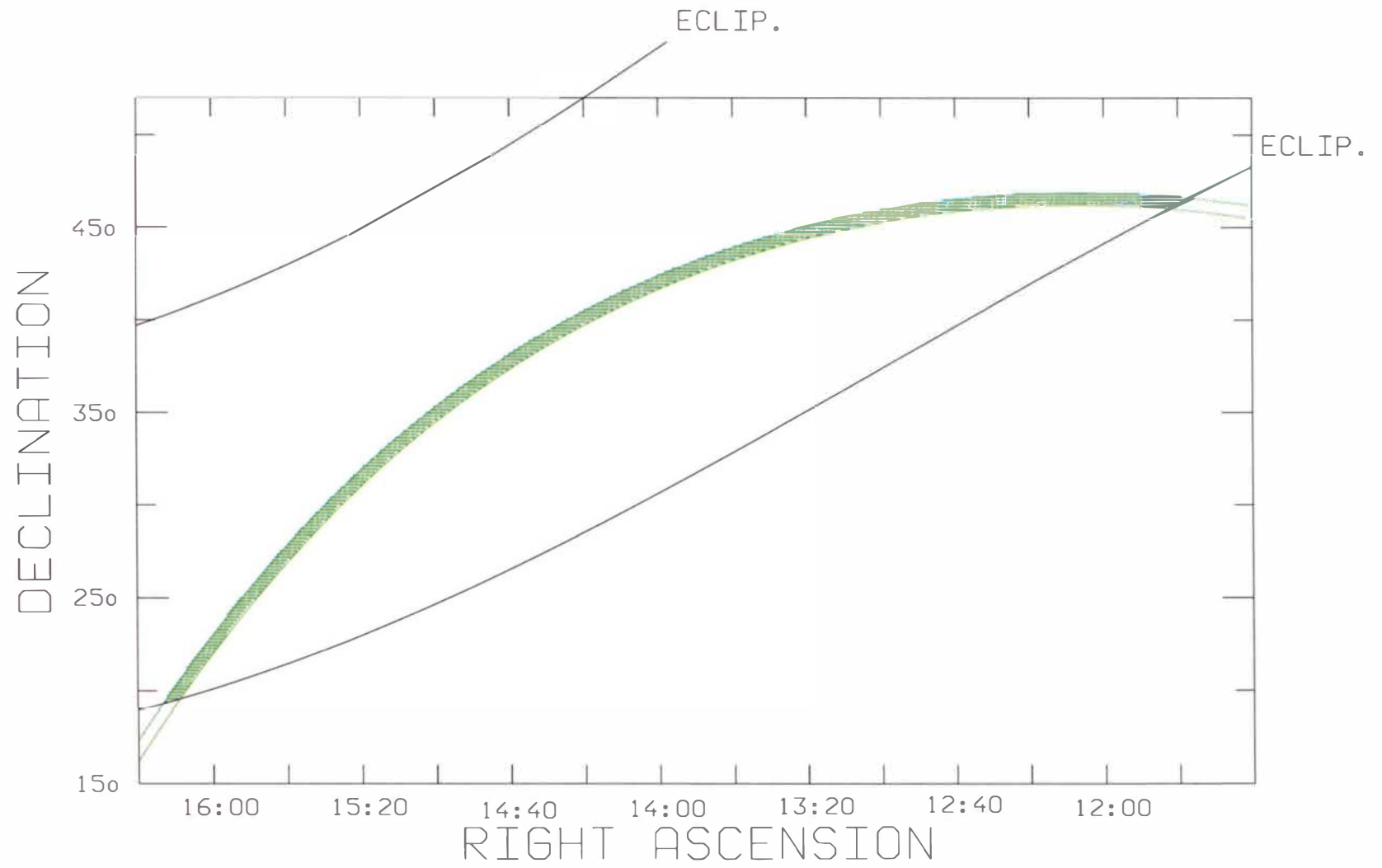
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

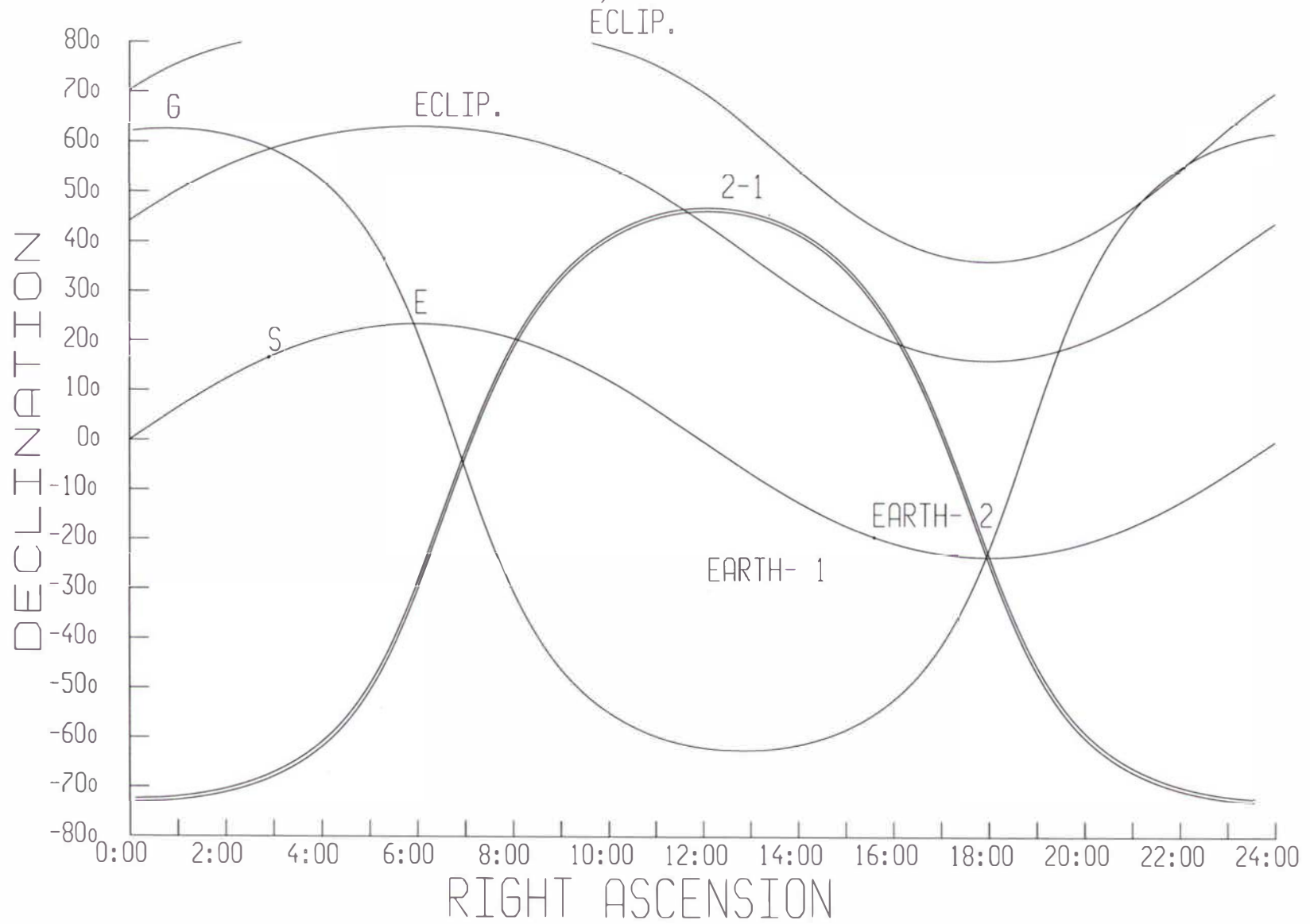
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

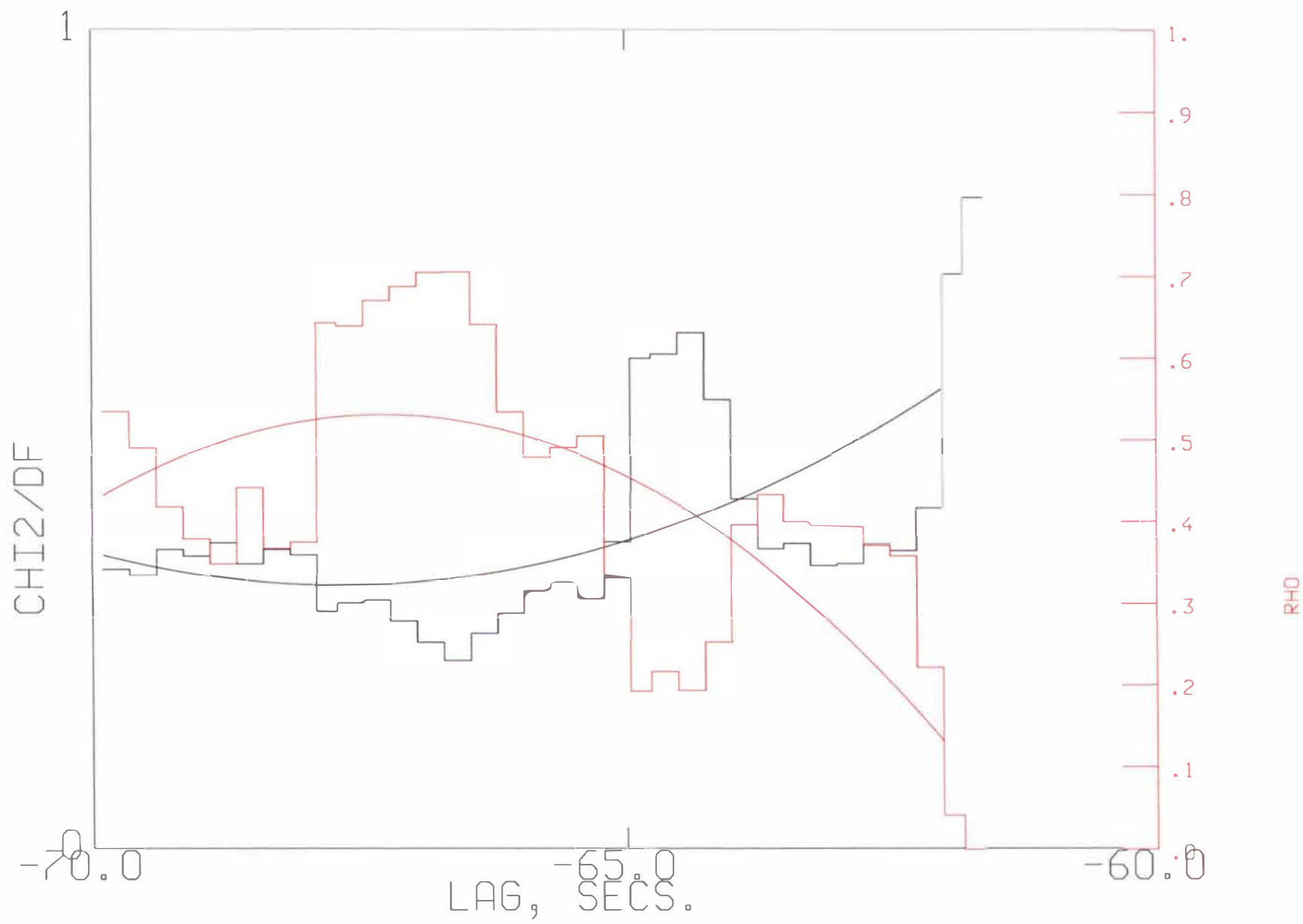


EVENT OF MAY 7, 1995 2:02

24/08/2011

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





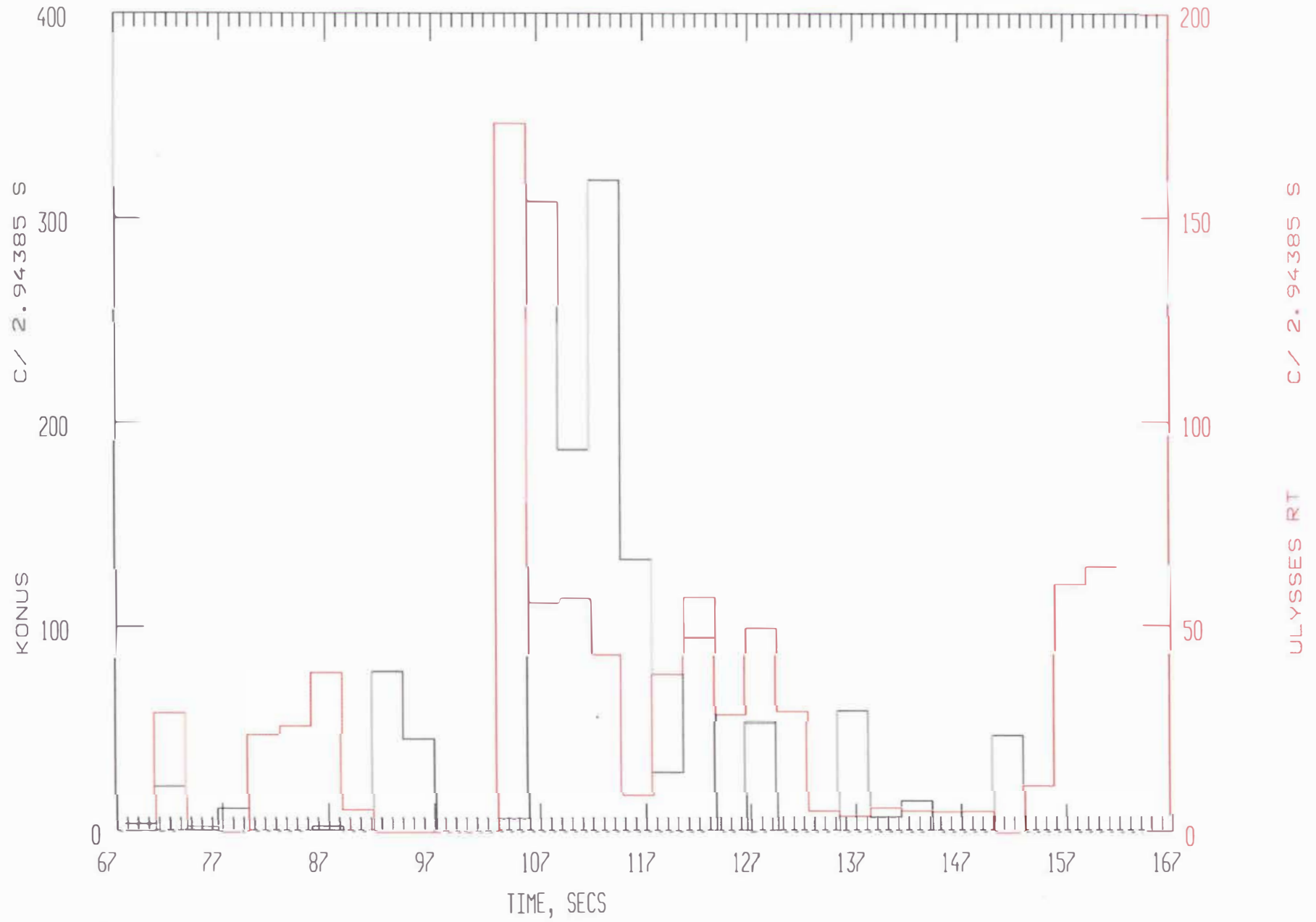
KONUS

-ULYSSES RT CORRELATION

07/05/95

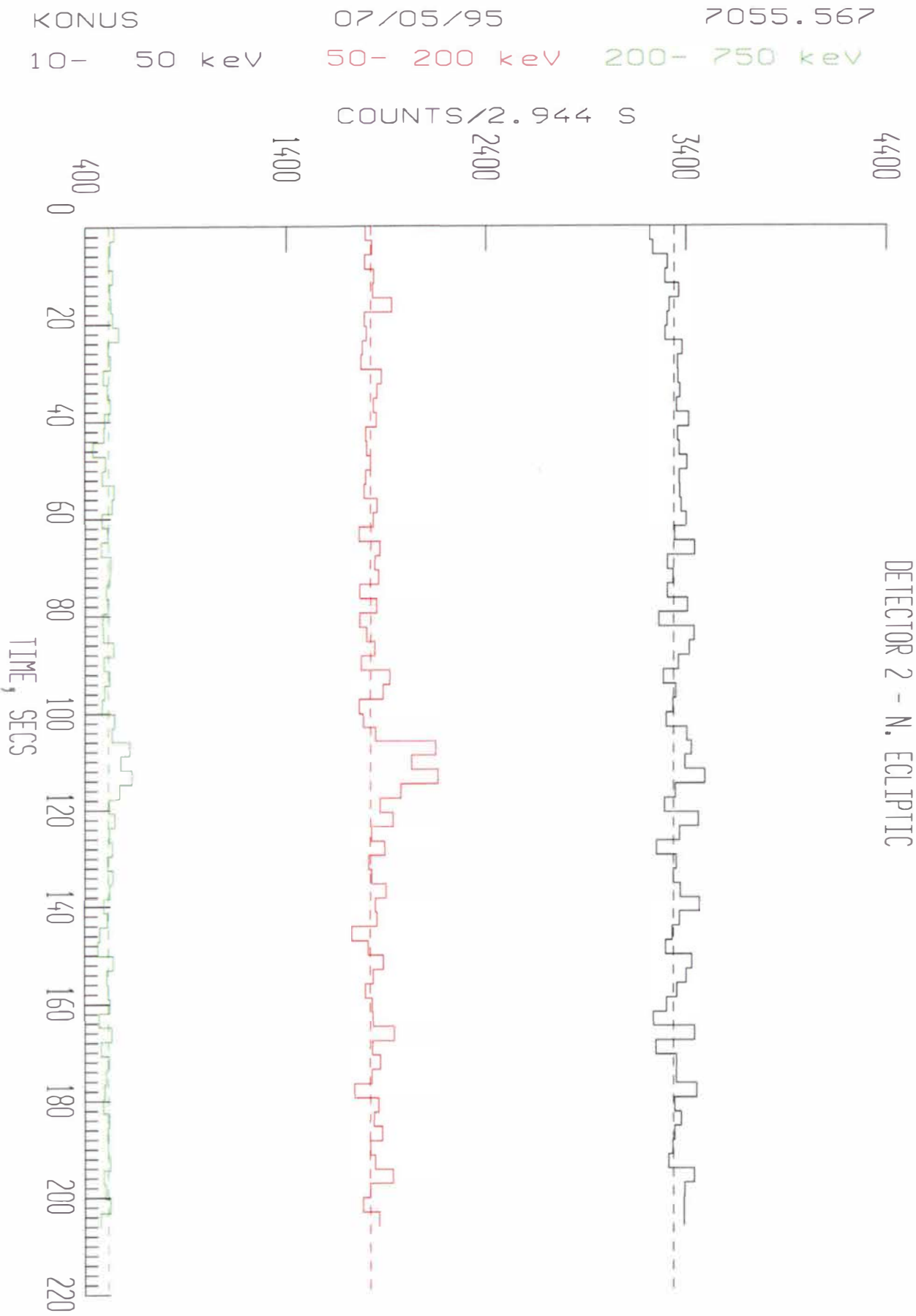
7055.567

24/ 8/11



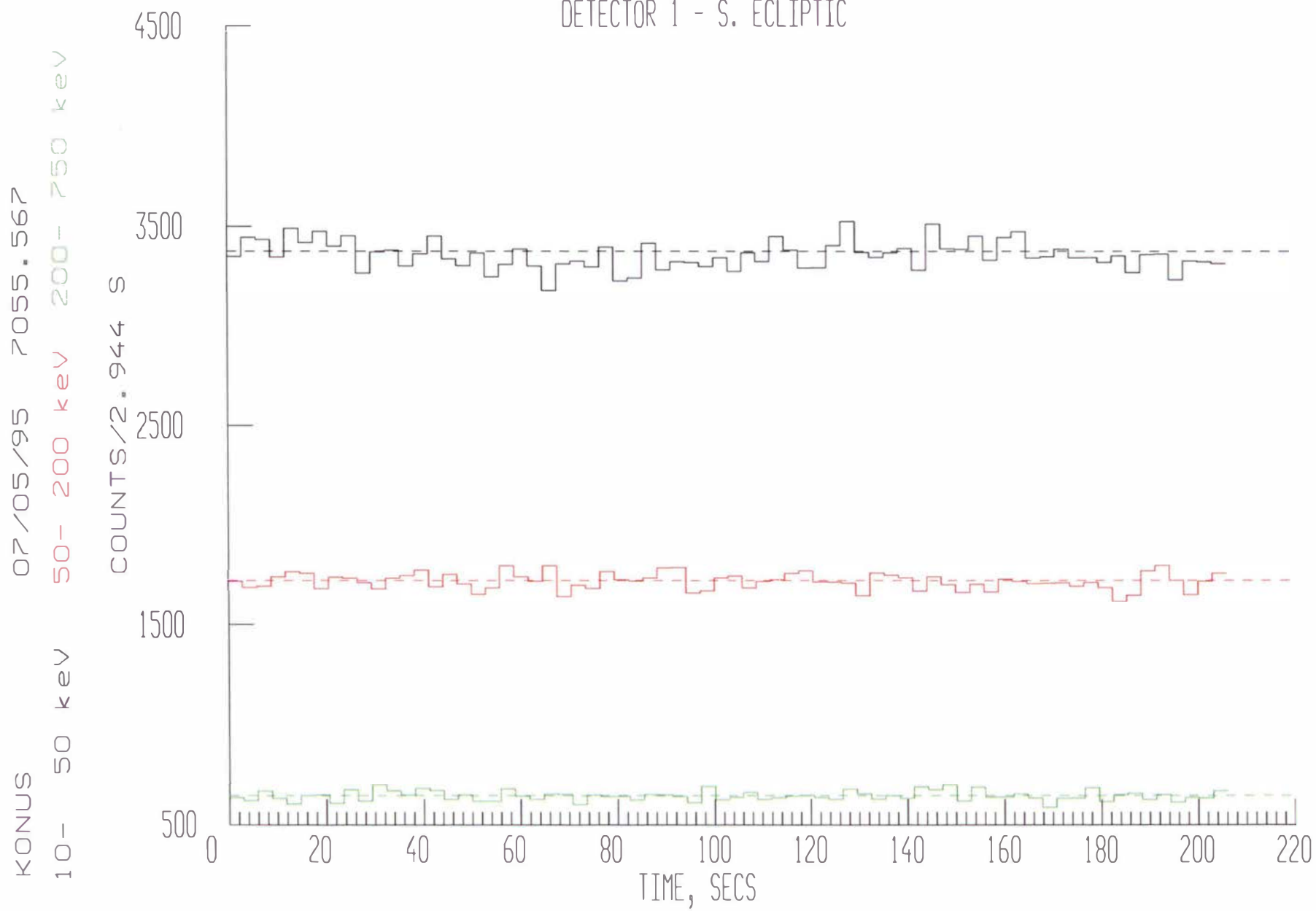
24/08/2011

DETECTOR 2 - N. ECLIPIC



24/08/2011

DETECTOR 1 - S. ECLIPTIC



KONUS RI 19950507 07400

ULYSSES RT

23 / 08 / 11

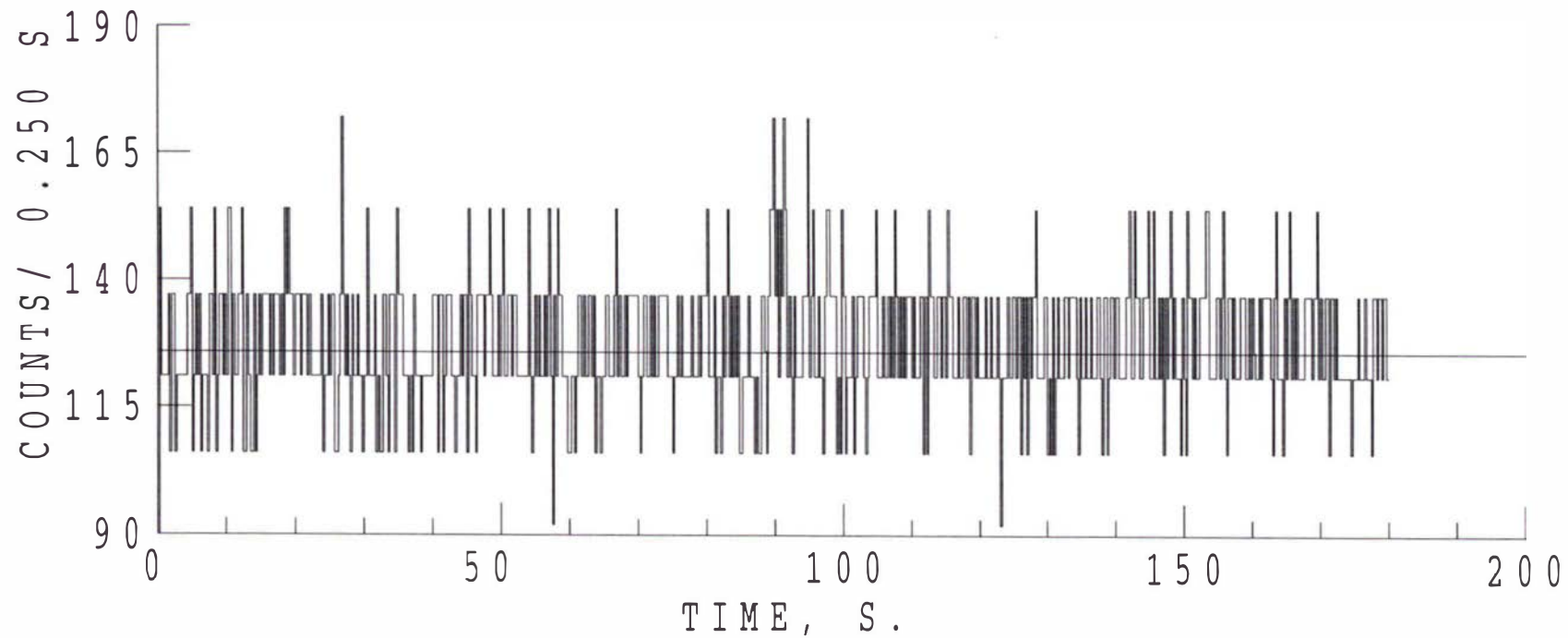
07/05/95 7308.036 s

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

1

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



KONUS

15 / 2 / 96

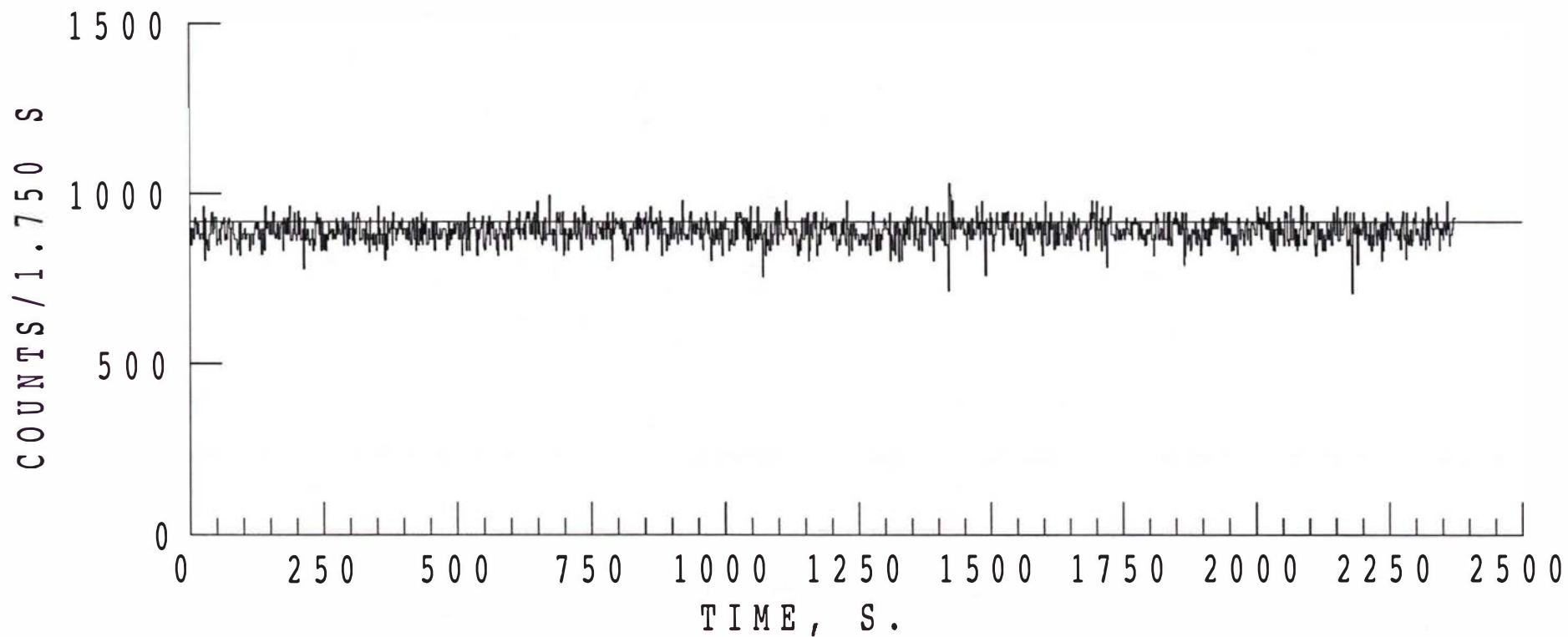
ULYSSES RT

7 / 5 / 95 5976.011 s

0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From HENZE@fender.msfc.nasa.gov Wed May 10 09:38 PDT 1995
Date: Wed, 10 May 1995 11:38:23 -0500 (CDT)
From: HENZE@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
15733SCHAEFER@fender.msfc.nasa.gov, CASS09BAND@fender.msfc.nasa.gov,
CASS09GRUBER@fender.msfc.nasa.gov, CASS09MATTESON@fender.msfc.nasa.gov,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03553

TIME: TJD=9844 SECONDS=07159

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

PROBABLY ELECTRONS. VERY SPARSE BATSE DATA.

From HENZE@fender.msfc.nasa.gov Wed May 10 08:10 PDT 1995
Date: Wed, 10 May 1995 10:10:24 -0500 (CDT)
From: HENZE@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
15733SCHAEFER@fender.msfc.nasa.gov, CASS09BAND@fender.msfc.nasa.gov,
CASS09GRUBER@fender.msfc.nasa.gov, CASS09MATTESON@fender.msfc.nasa.gov,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03554

TIME: TJD=9844 SECONDS=15241

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HENZE@fender.msfc.nasa.gov Wed May 10 08:13 PDT 1995
Date: Wed, 10 May 1995 10:13:04 -0500 (CDT)
From: HENZE@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
15733SCHAEFER@fender.msfc.nasa.gov, CASS09BAND@fender.msfc.nasa.gov,
CASS09GRUBER@fender.msfc.nasa.gov, CASS09MATTESON@fender.msfc.nasa.gov,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03555

TIME: TJD=9844 SECONDS=53949

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

From HENZE@fender.msfc.nasa.gov Wed May 10 08:15 PDT 1995
Date: Wed, 10 May 1995 10:14:47 -0500 (CDT)
From: HENZE@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
15733SCHAEFER@fender.msfc.nasa.gov, CASS09BAND@fender.msfc.nasa.gov,
CASS09GRUBER@fender.msfc.nasa.gov, CASS09MATTESON@fender.msfc.nasa.gov,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03556

TIME: TJD=9844 SECONDS=59886

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

From HENZE@fender.msfc.nasa.gov Wed May 10 08:16 PDT 1995
Date: Wed, 10 May 1995 10:16:49 -0500 (CDT)
From: HENZE@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
15733SCHAEFER@fender.msfc.nasa.gov, CASS09BAND@fender.msfc.nasa.gov,
CASS09GRUBER@fender.msfc.nasa.gov, CASS09MATTESON@fender.msfc.nasa.gov,
PACIESAS@fender.msfc.nasa.gov, HORACK@fender.msfc.nasa.gov,
khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03557

TIME: TJD=9844 SECONDS=65845

TYPE: PARTICL

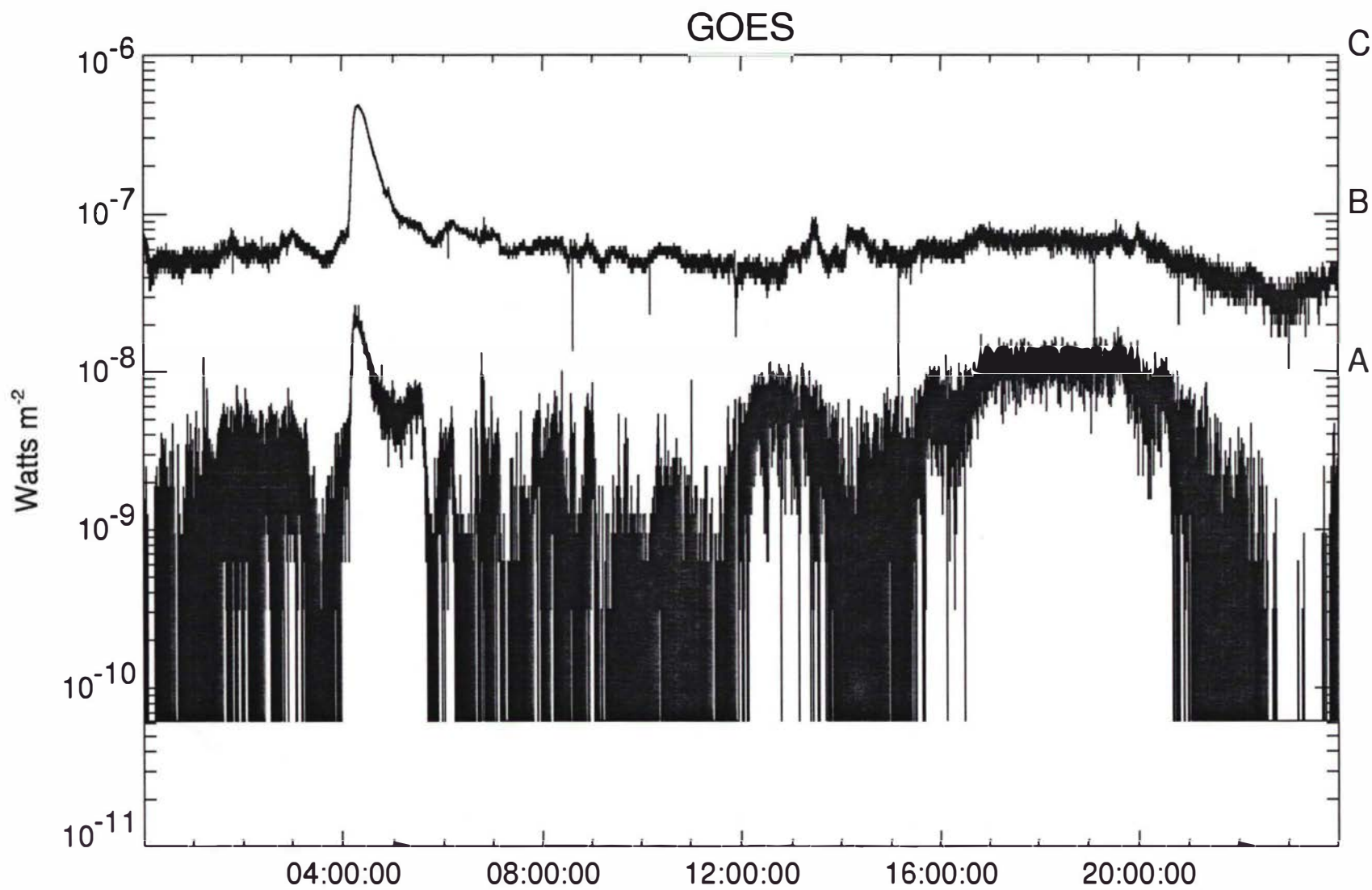
SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.



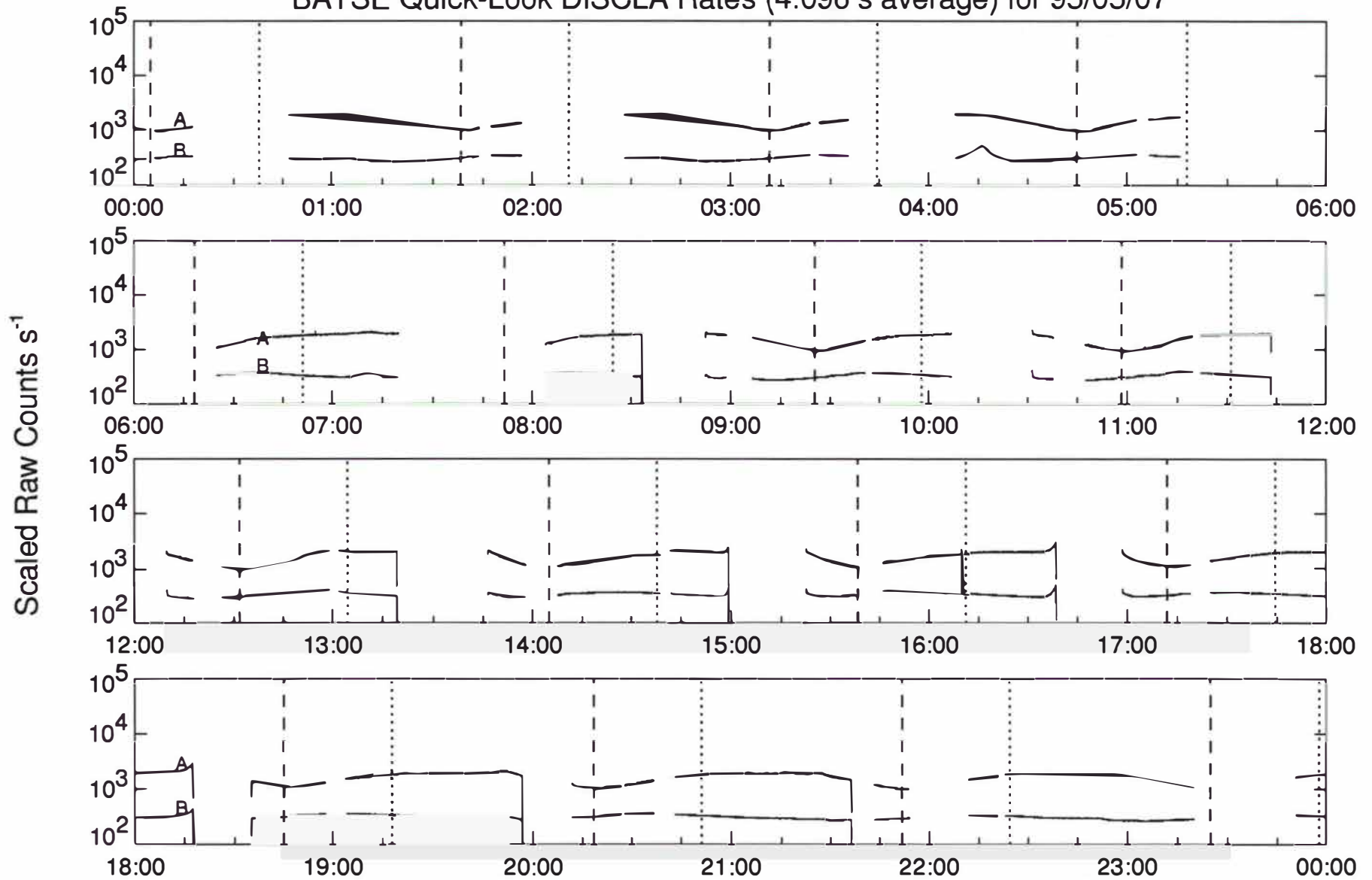
Data Start: 95/05/07, 0000:02

Plot created: 95/05/09, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/07



Current Time: 95/05/11, 1831 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

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

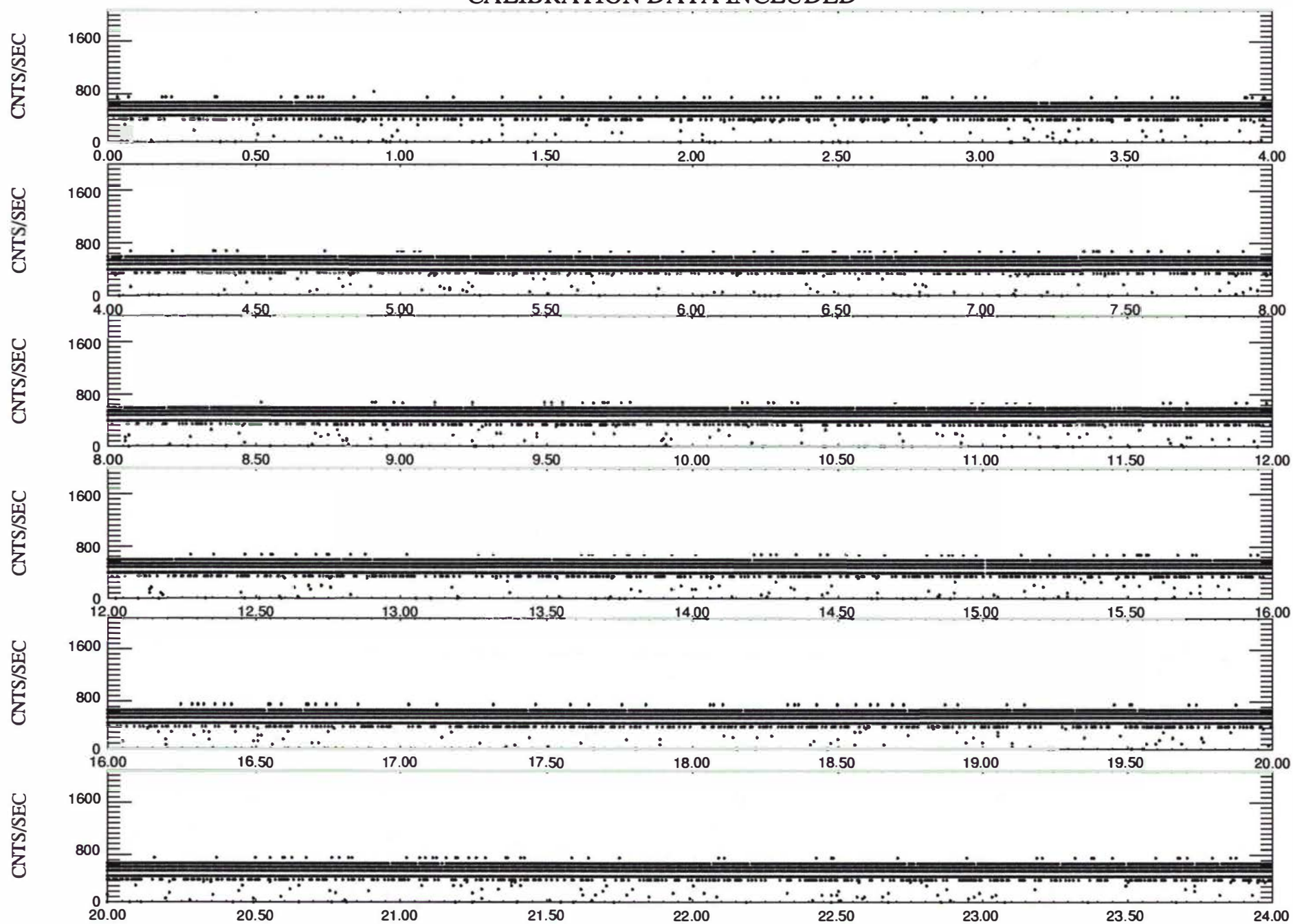
CBU	CCL	DMP	ROM	DMA	OSC	MP.	ICR	SPE	OPM	RSC	CAL	WCH	MEM	BRS	HUS
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



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

HUS 2A, MODE 1, NOT AVERAGED EDR day 127, year 1995 to day 127, year 1995
CALIBRATION DATA INCLUDED

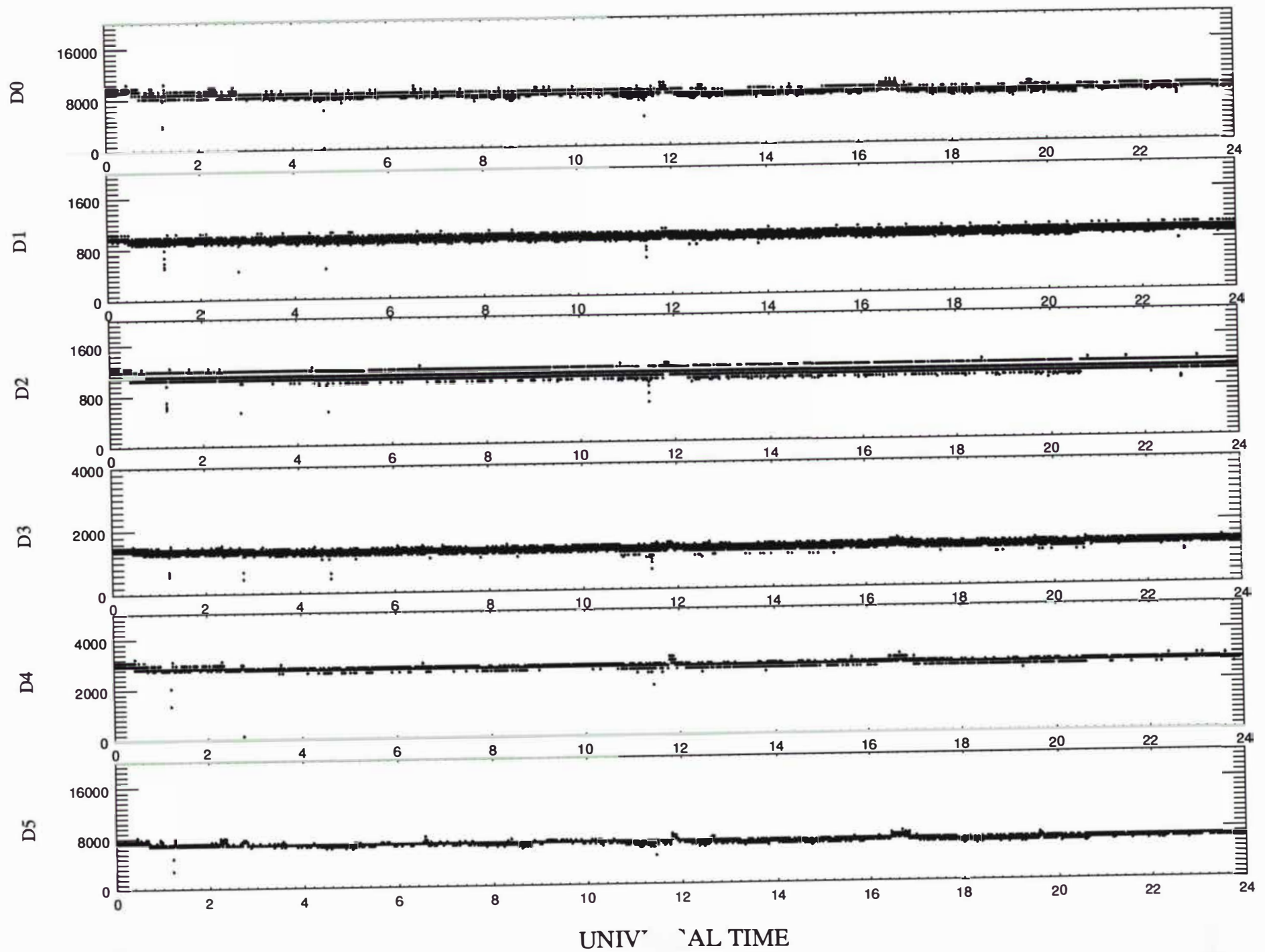
11/21/95



UNIVERSAL TIME

HUS 2B COUNTS / SEC QEDR day 127, year 1995 to day 127, year 1995

5/9/95



From HAGEDON@ssl.msfc.nasa.gov Wed May 10 07:29 PDT 1995
Date: Wed, 10 May 1995 9:28:44 -0500 (CDT)
From: HAGEDON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3558

TIME: TJD=9845 SECONDS=01305

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@ssl.msfc.nasa.gov Wed May 10 07:36 PDT 1995
Date: Wed, 10 May 1995 9:35:58 -0500 (CDT)
From: HAGEDON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3559

TIME: TJD=9845 SECONDS=06816

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@ssl.msfc.nasa.gov Wed May 10 07:42 PDT 1995
Date: Wed, 10 May 1995 9:41:49 -0500 (CDT)
From: HAGEDON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3560

TIME: TJD=9845 SECONDS=18330

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From DEAL@ssl.msfc.nasa.gov Wed May 10 06:05 PDT 1995
Date: Wed, 10 May 1995 8:05:50 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3561

TIME: TJD=9845 SECONDS=21401

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

From DEAL@ssl.msfc.nasa.gov Wed May 10 06:07 PDT 1995
Date: Wed, 10 May 1995 8:07:49 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3562

TIME: TJD=9845 SECONDS=63227

TYPE: SAA ENT SOLAR FLARE TRIGGER SIGNAL:N

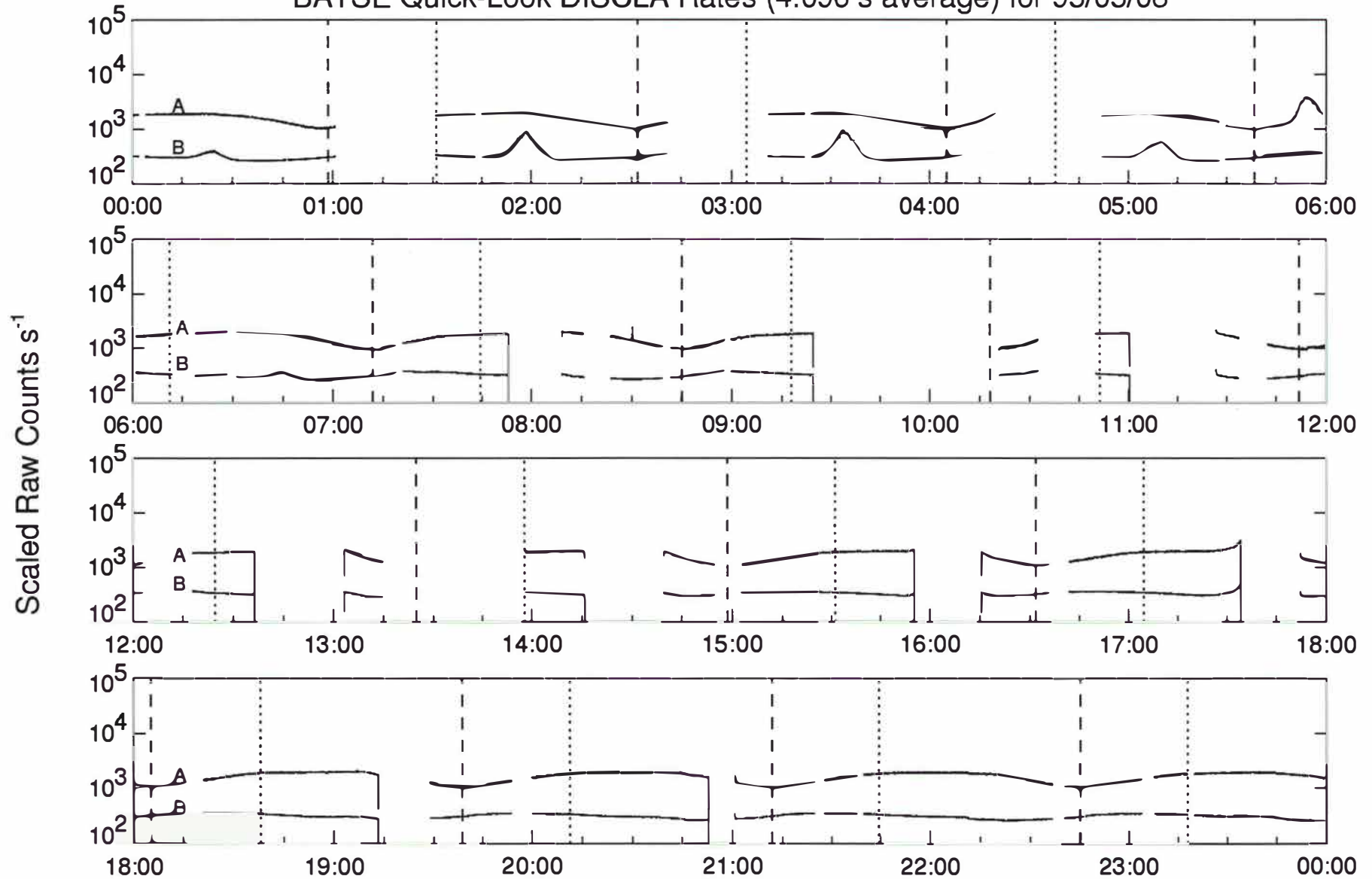
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY

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



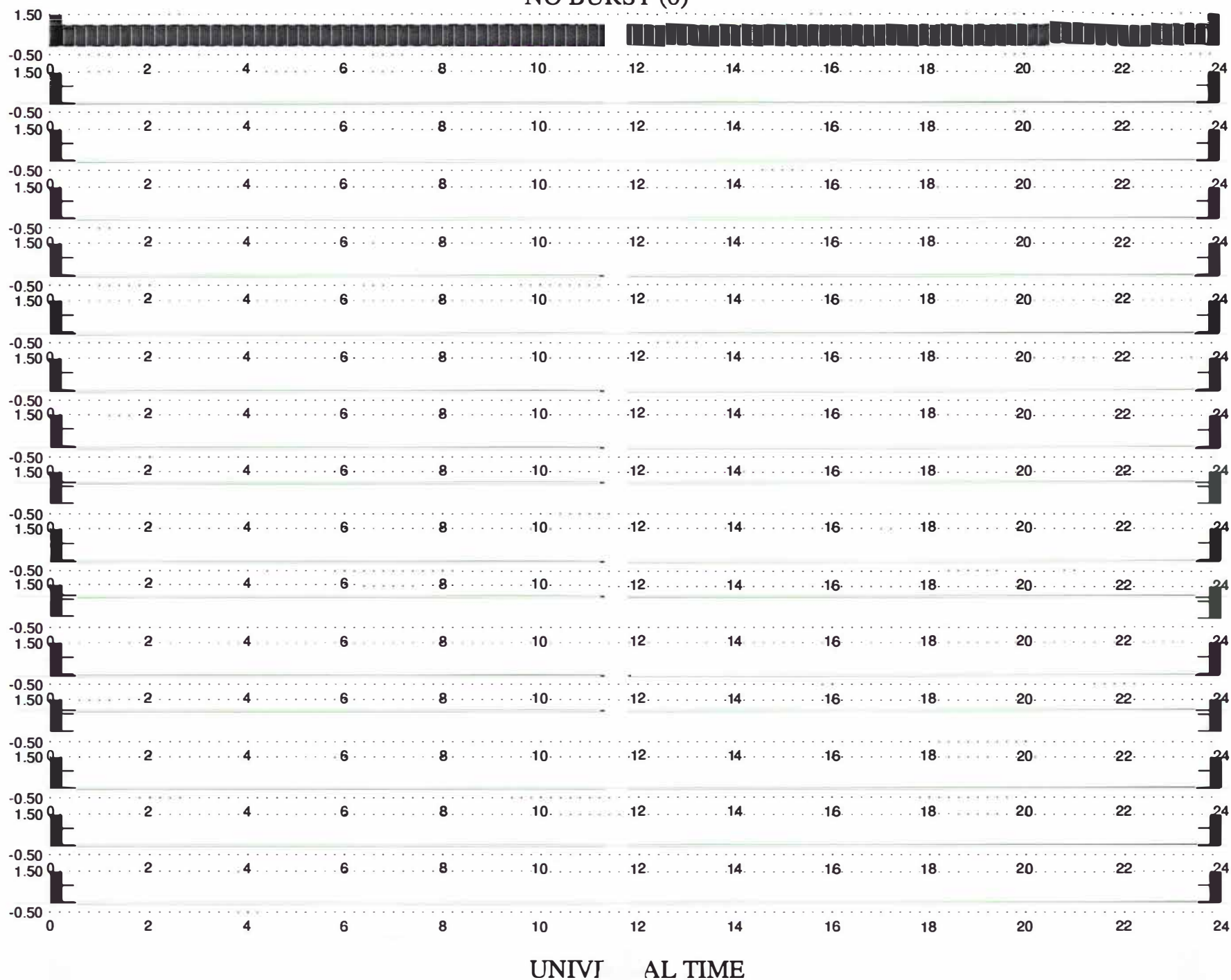
Current Time: 95/05/10, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

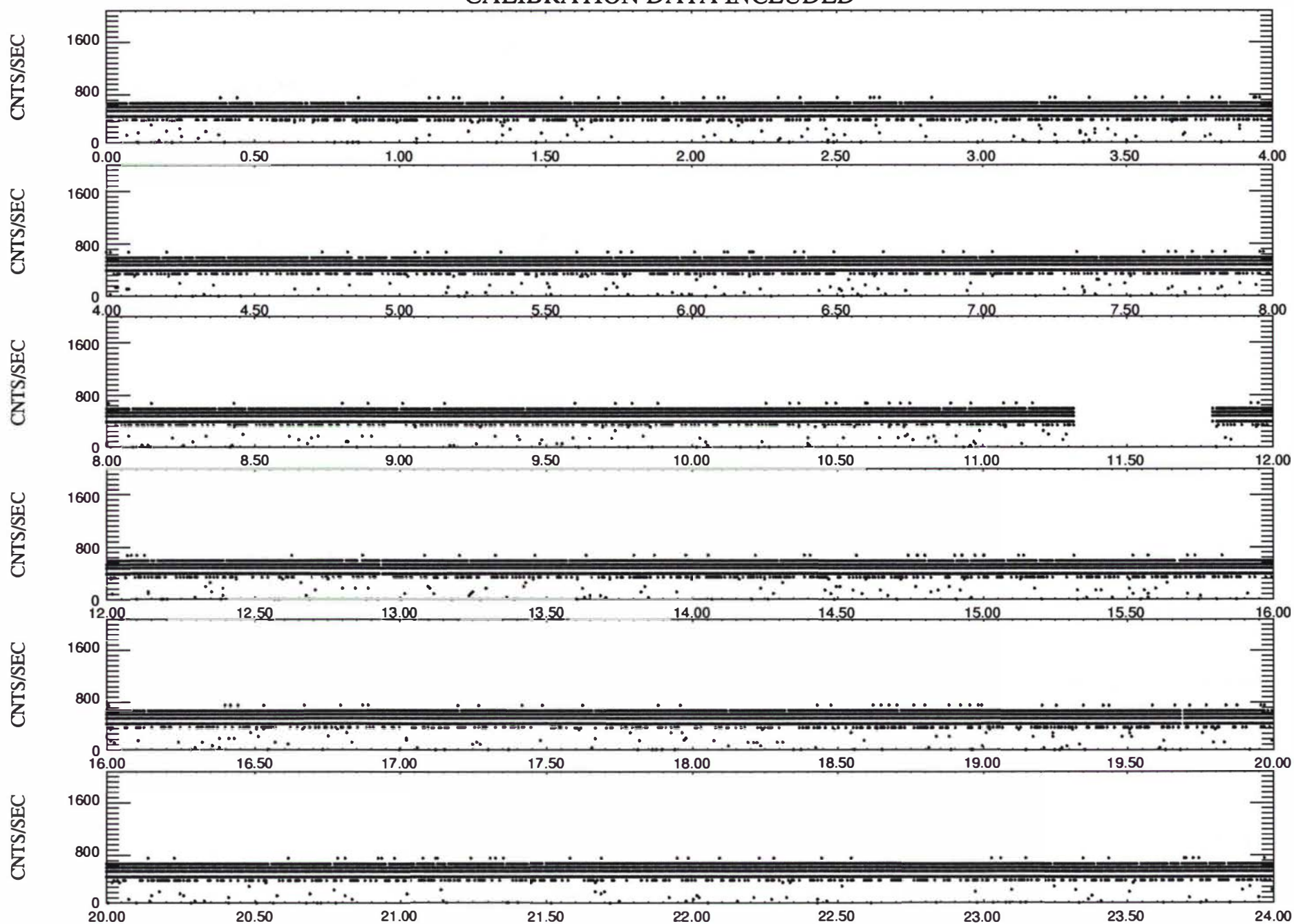
CBU	CCL	DMP	ROM	DMA	OSC	MP.	ICR	SPE	OPM	RSC	CAL	WCH	MEM	BRS	HUS
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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

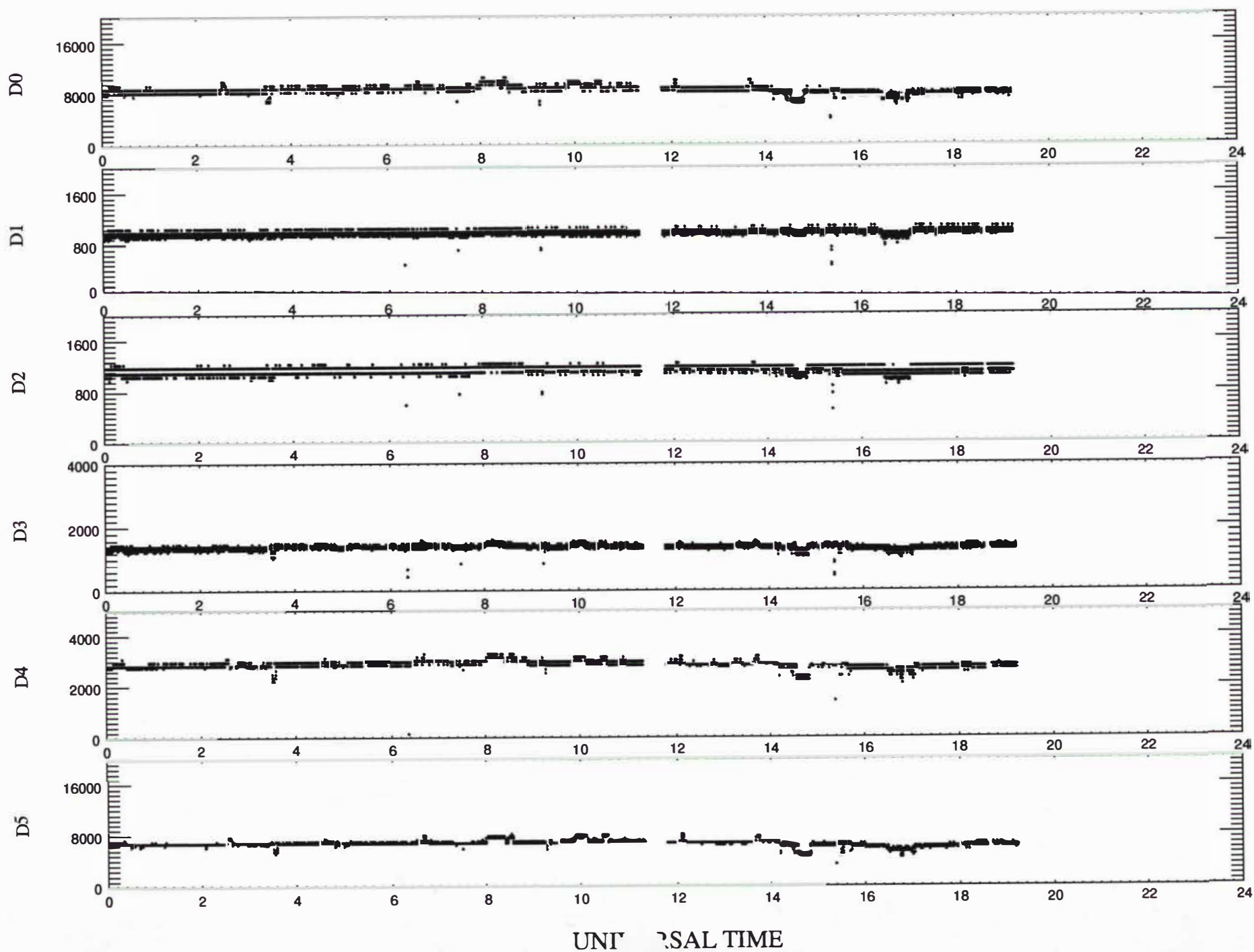


HUS 2A, MODE 1, NOT AVERAGED EDR day 128, year 1995 to day 128, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIVF AL TIME



From DEAL@ssl.msfc.nasa.gov Fri May 12 09:30 PDT 1995
Date: Fri, 12 May 1995 11:30:17 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3564

BATSEARCH PROGRAM

No

BATSE BURST # 3564
EVENT OF 1995 MAY 9 DAY OF YEAR=129
EVENT CROSSING TIME AT BATSE : 46185. S. OR 12:49:45.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 301.000 76.000
BATSE PEAK COUNTING RATE: 5000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 9/ 5/ 95 IS:
RA= 2.151 DEC= 31.923 DIST= 2.087 AU
BATSE-ULYSSES DISTANCE = 312262051. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=127.74 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -637.60 SECS.
CROSSING TIME AT ULYSSES IS 45547. S. OR 12:39:07 +/- 183.31 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 9/ 5/ 95 IS:
RA= 146.022 DEC= 15.622 DIST= 1.219 AU
MARS-BATSE DISTANCE = 182375008. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 92.88 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -30.52 SECS.
CROSSING TIME AT MARS IS 46154. S. OR 12:49:14 +/- 105.02 SECONDS

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3564	950509	9846	46185	5000	301	+76	20

BATSE BURST TRIGGER

NO.: 3564

TIME: TJD=9846 SECONDS=46185

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=54.1 AZIMUTH=294.3 ERROR= DEGREES

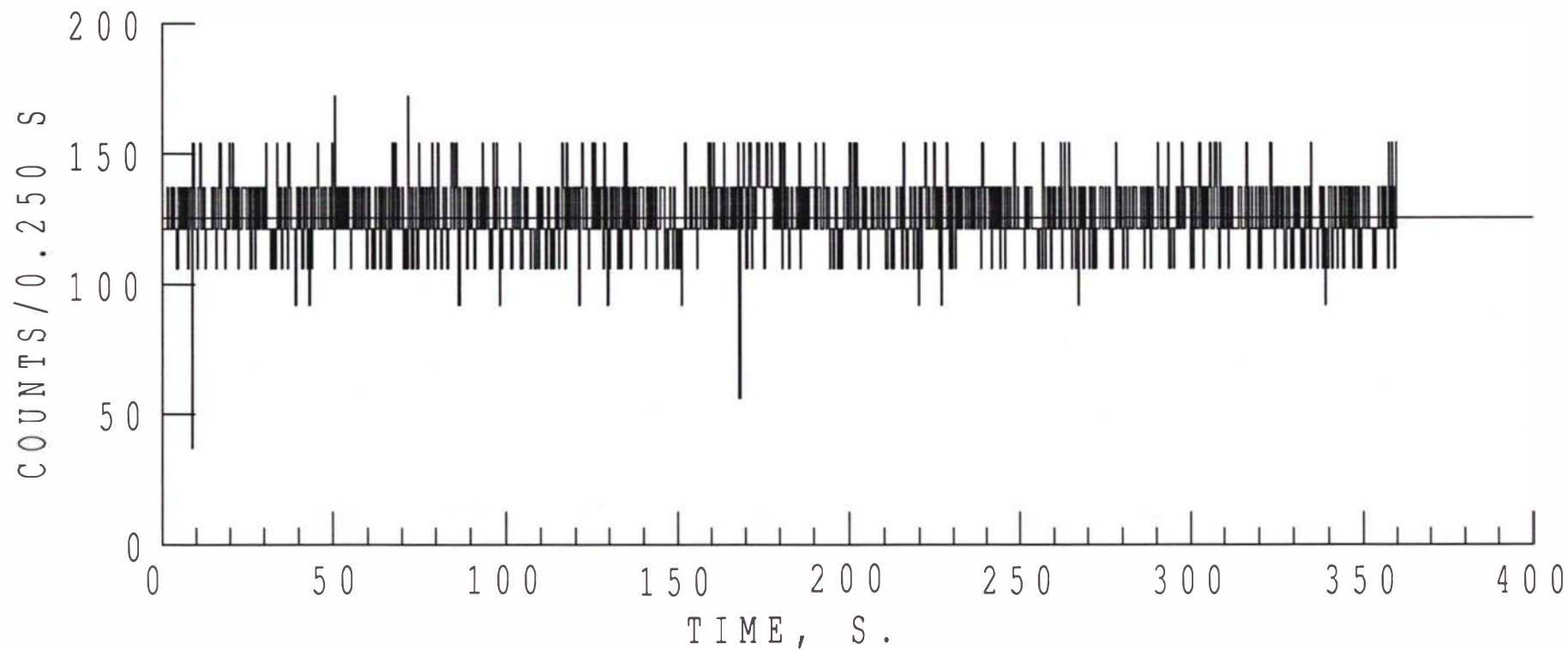
COMMENTS:

BURST LASTING ~ 20S. NOT VISIBLE ABOVE 300 KEV.

12 / 5 / 95

ULYSSES RT
9 / 5 / 95 45360.168 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From DEAL@ssl.msfc.nasa.gov Thu May 11 11:51 PDT 1995
Date: Thu, 11 May 1995 13:51:14 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3565

TIME: TJD=9846 SECONDS=68359

TYPE: SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
CYGNUS X-1

From DEAL@ssl.msfc.nasa.gov Fri May 12 11:01 PDT 1995
Date: Fri, 12 May 1995 7:50:43 -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,
 "15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
 "CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3566

TIME: TJD=9846 SECONDS=73969

TYPE: SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
CYGNUS X-1

From DEAL@ssl.msfc.nasa.gov Thu May 11 11:54 PDT 1995
Date: Thu, 11 May 1995 13:53:56 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3566

TIME: TJD=9846 SECONDS=73969

TYPE: SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: N SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
CYGNUS X-2

From DEAL@ssl.msfc.nasa.gov Fri May 12 09:27 PDT 1995
Date: Fri, 12 May 1995 11:27:57 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3567

BATSEARCH PROGRAM

ND

BATSE BURST # 3567
EVENT OF 1995 MAY 9 DAY OF YEAR=129
EVENT CROSSING TIME AT BATSE : 83765. S. OR 23:16:05.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 44.000 23.000
BATSE PEAK COUNTING RATE: 4500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 9/ 5/ 95 IS:
RA= 2.298 DEC= 32.251 DIST= 2.085 AU
BATSE-ULYSSES DISTANCE = 311987697. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=142.16 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -821.86 SECS.
CROSSING TIME AT ULYSSES IS 82943. S. OR 23:02:23 +/- 148.36 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 9/ 5/ 95 IS:
RA= 146.022 DEC= 15.622 DIST= 1.219 AU
MARS-BATSE DISTANCE = 182375008. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 85.44 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 48.32 SECS.
CROSSING TIME AT MARS IS 83813. S. OR 23:16:53 +/- 106.02 SECONDS

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3567	950509	9846	83765	4500	044	+23	600

BATSE BURST TRIGGER

NO.: 3567

TIME: TJD=9846 SECONDS=83765

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=60.7 AZIMUTH=13.3 ERROR= DEGREES

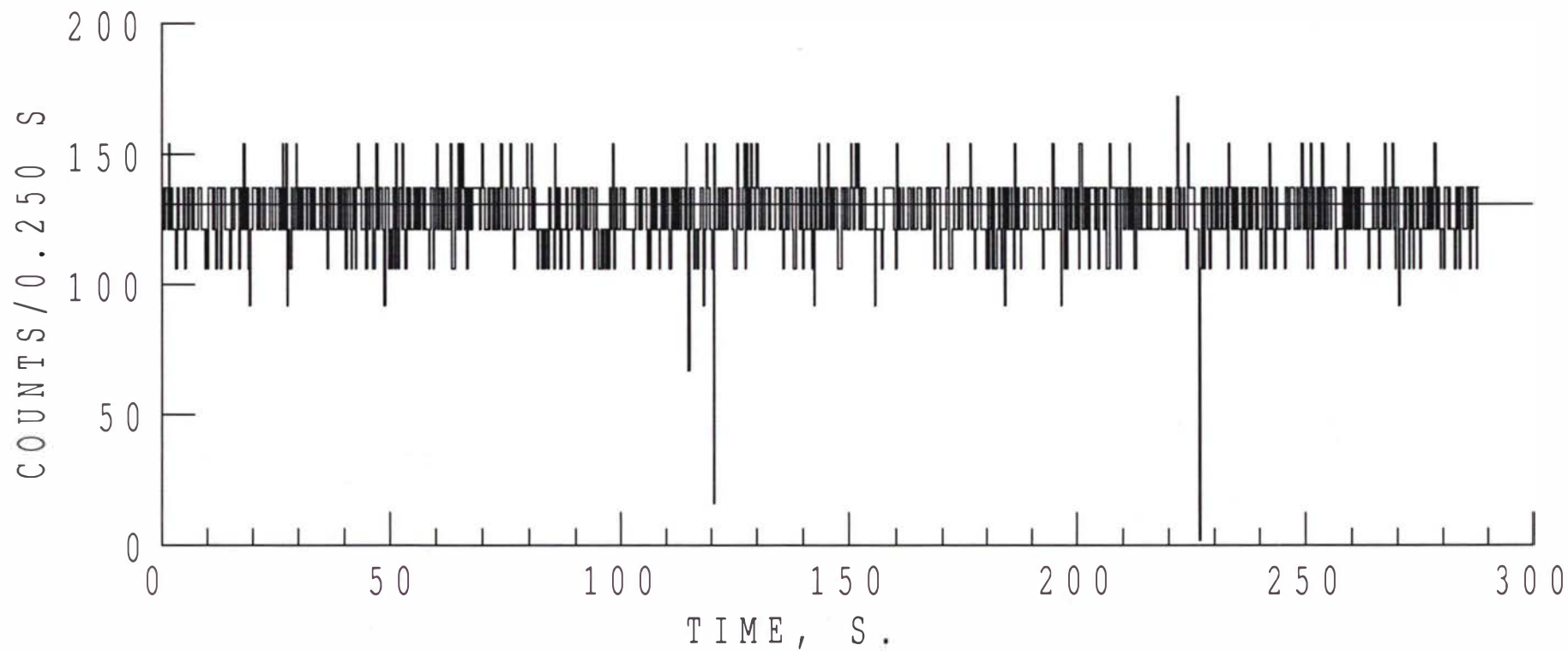
COMMENTS:

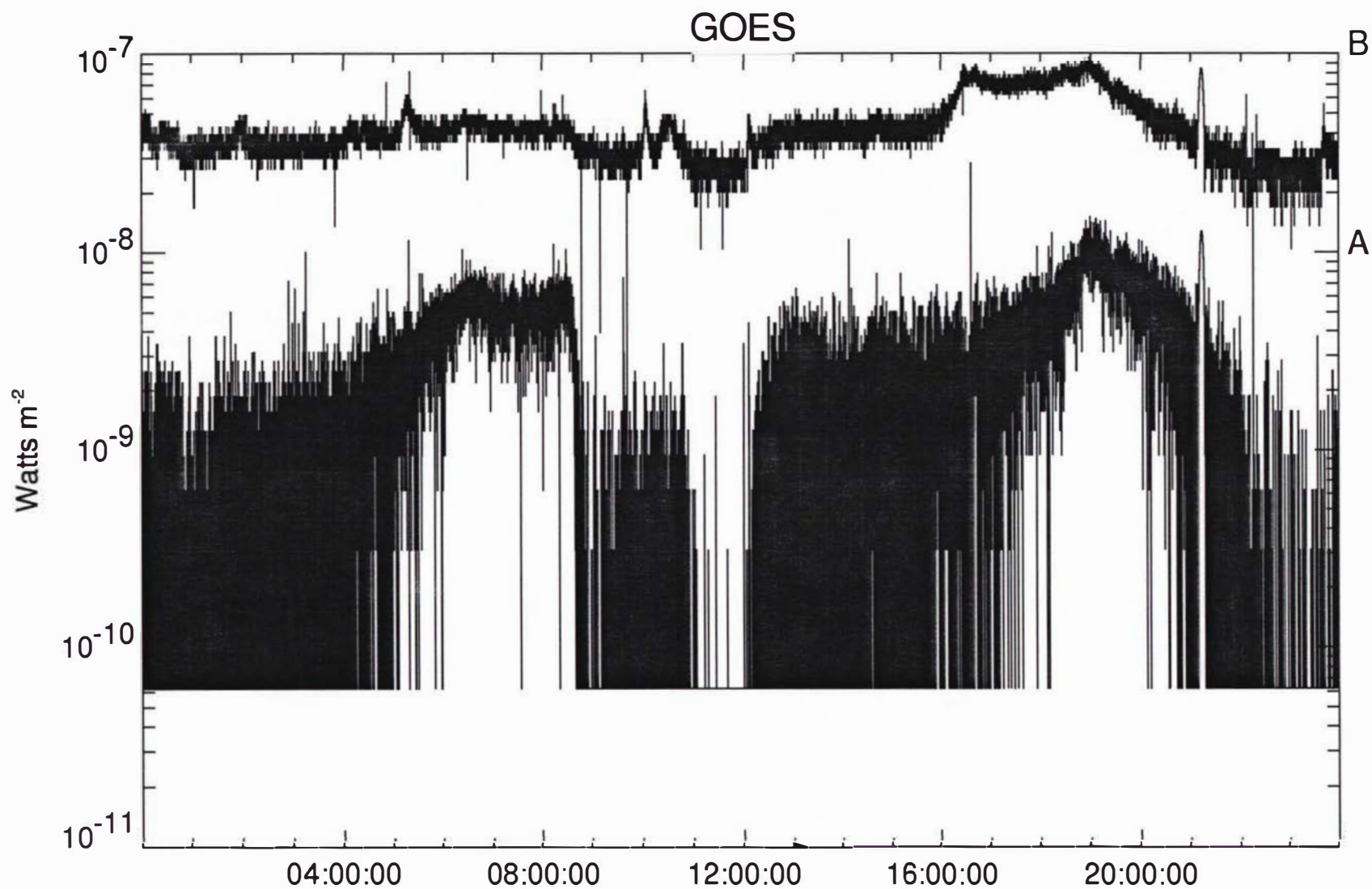
BURST LASTING ~ 580S. THERE ARE 2 EPISODES WITH THE SECOND VISIBLE ABOVE 300 KEV

12 / 5 / 95

ULYSSES RT
9 / 5 / 95 82800.141 s
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





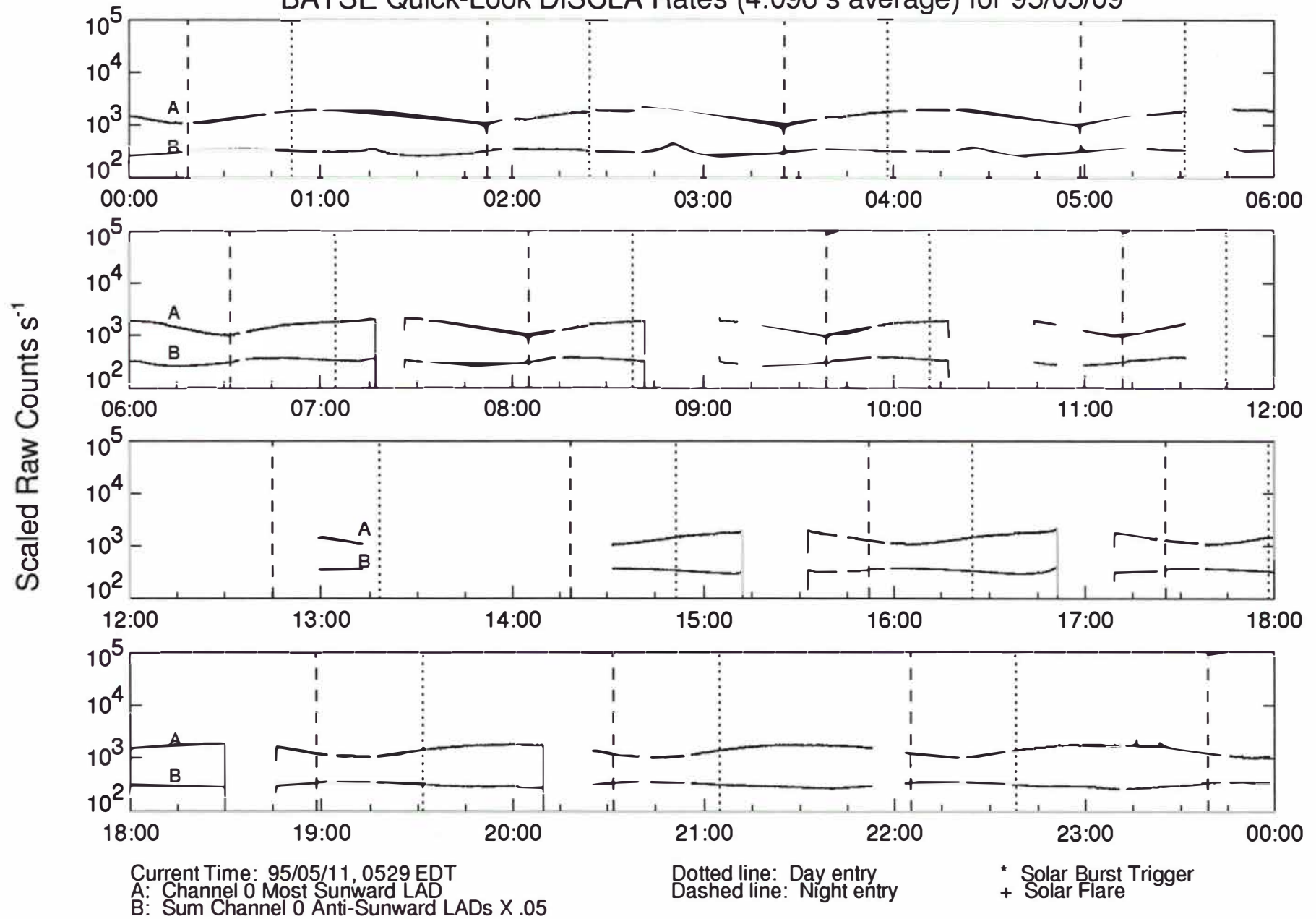
Data Start: 95/05/09, 0000:01

Plot created: 95/05/11, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

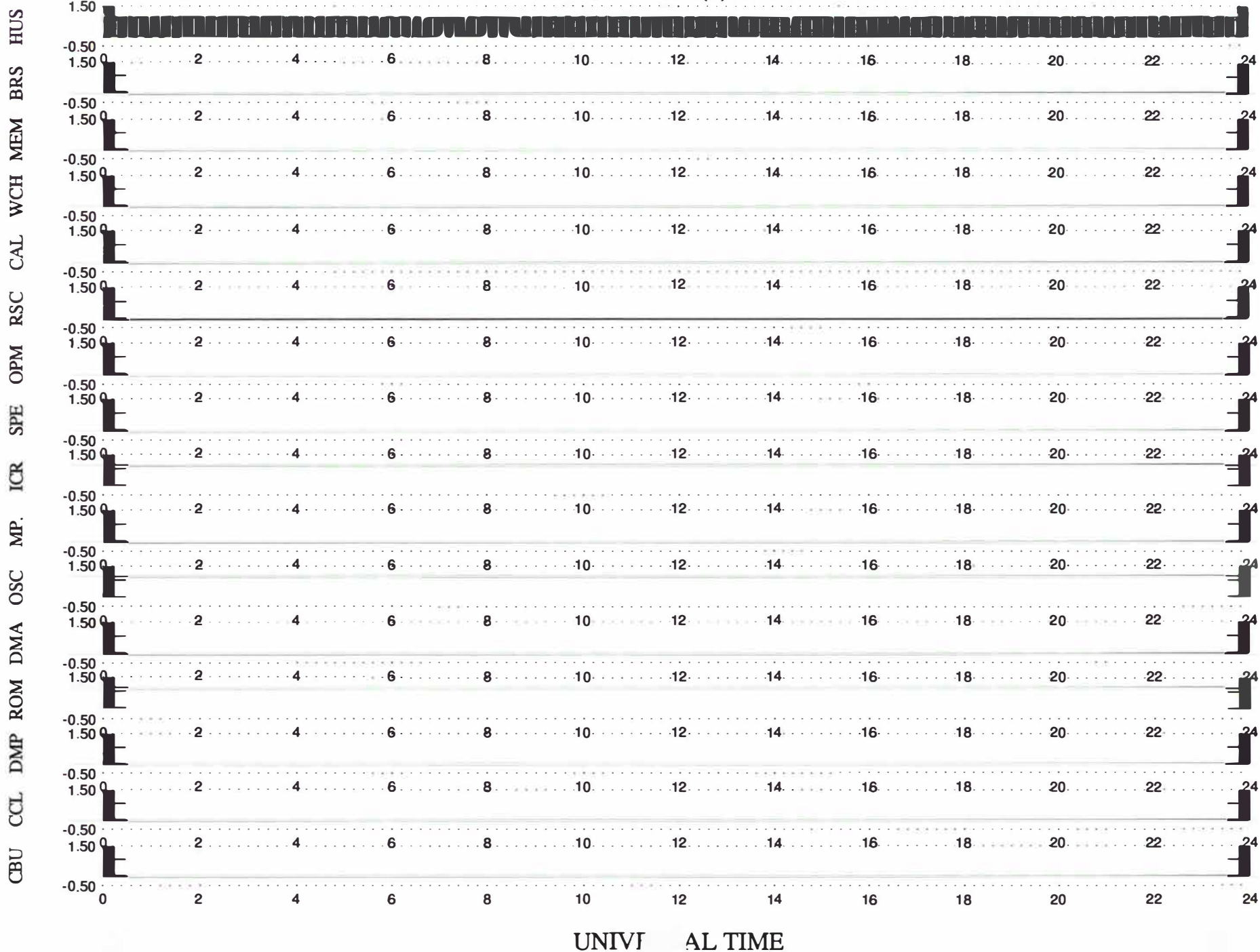
2 (0.5 - 4.0 Angstroms) Background not subtracted

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



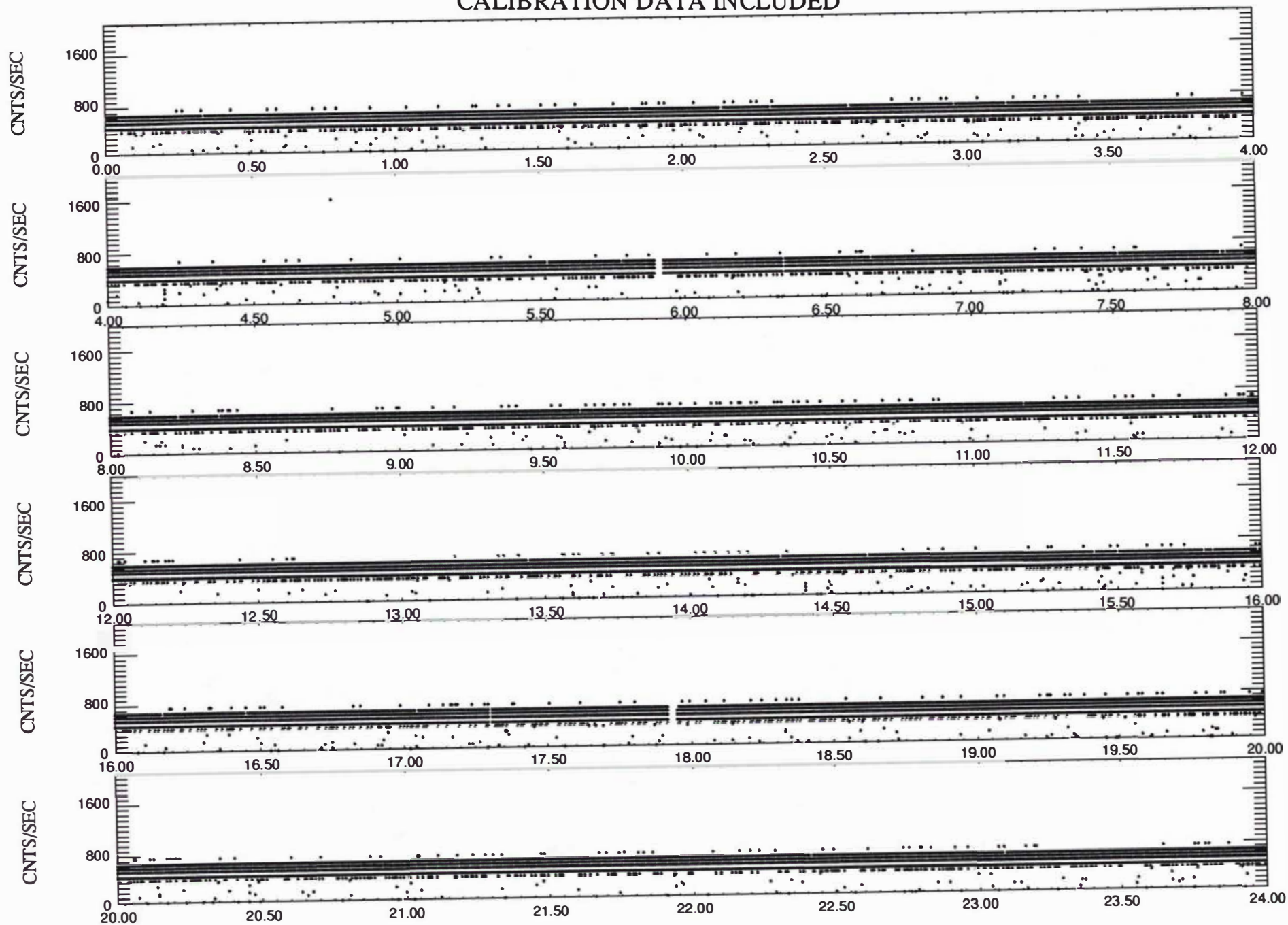
HUS MODES EDR day 129, year 1995 to day 129, year 1995
NO BURST (0)

11/21/95

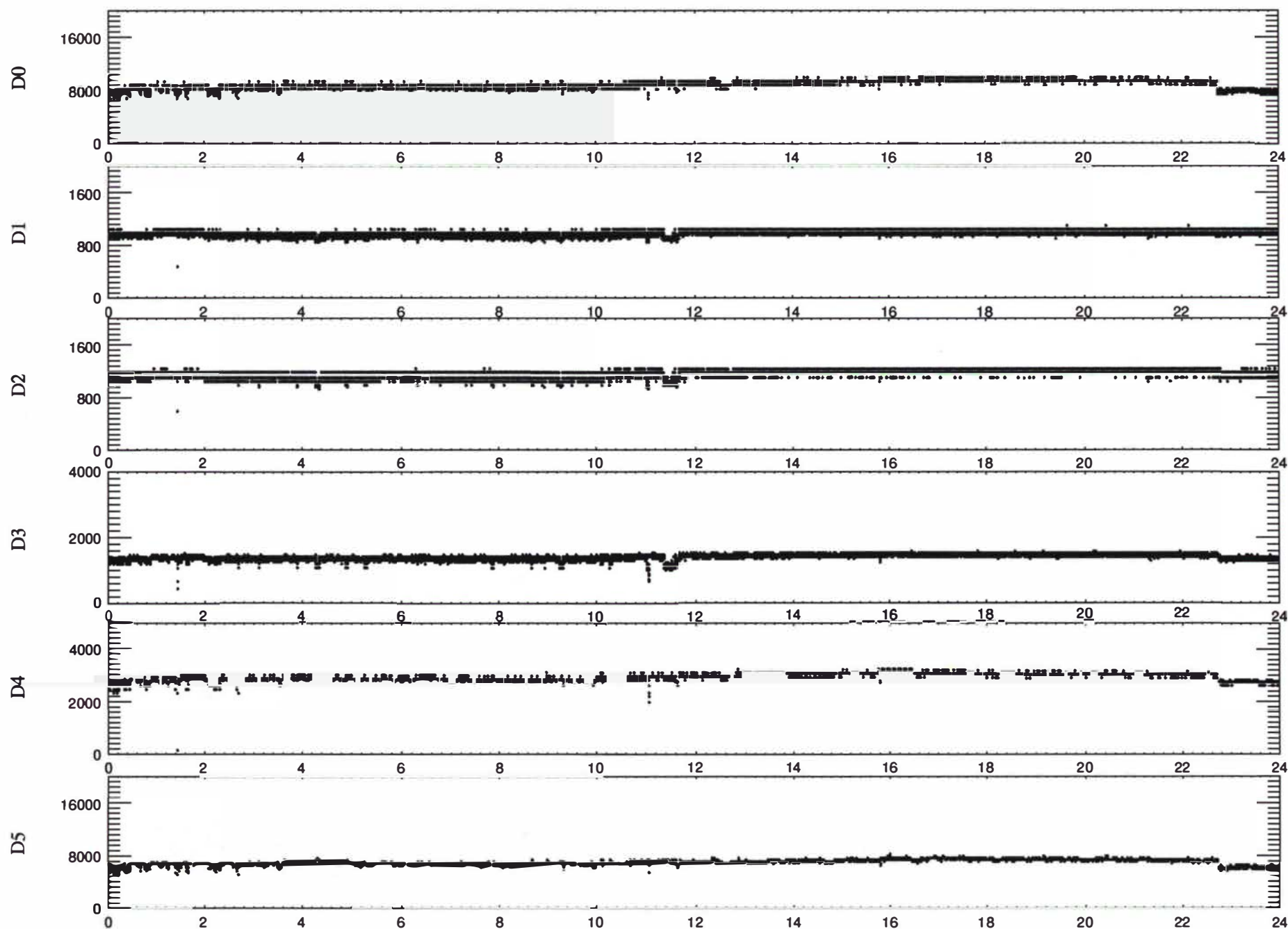


HUS 2A, MODE 1, NOT AVERAGED EDR day 129, year 1995 to day 129, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIV. TIME



From SAHI@ssl.msfc.nasa.gov Fri May 26 07:14 PDT 1995
Date: Fri, 26 May 1995 9:14:18 -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.: 3568

TIME: TJD=9847 SECONDS=9931

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

REVISED AD MESSAGE:

CYGNUS X-1 OCCULTATION RISE.

From SAHI@ssl.msfc.nasa.gov Fri May 12 12:09 PDT 1995
Date: Fri, 12 May 1995 14:09:17 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3568

TIME: TJD=9847 SECONDS=9931

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

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

CYGNUS X-1 FLUCTUATION.

From SAHI@ssl.msfc.nasa.gov Mon May 15 08:20 PDT 1995
Date: Mon, 15 May 1995 10:20:36 -0500 (CDT)
From: SAHI@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3569

BATSEARCH PROGRAM

RI

BATSE BURST # 3569
EVENT OF 1995 MAY 10 DAY OF YEAR=130
EVENT CROSSING TIME AT BATSE : 28079. S. OR 07:47:59.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 189.000 -66.000
BATSE PEAK COUNTING RATE: 19000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 10/ 5/ 95 IS:
R_T= 2.419 DEC= 32.521 DIST= 2.084 AU
BATSE-ULYSSES DISTANCE = 311766024. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 33.71 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 865.05 SECS.
CROSSING TIME AT ULYSSES IS 28944. S. OR 08:02:24 +/- 163.35 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 10/ 5/ 95 IS:
RA= 146.387 DEC= 15.470 DIST= 1.228 AU
MARS-BATSE DISTANCE = 183676864. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 92.57 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -27.45 SECS.
CROSSING TIME AT MARS IS 28052. S. OR 07:47:31 +/- 105.85 SECONDS

BATSE BURST TRIGGER

NO.: 3569

TIME: TJD=9847 SECONDS=28079

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=88.5 AZIMUTH=172.5 ERROR= DEGREES

COMMENTS:

BURST. DOUBLE PULSE, FIRST IS MUCH STRONGER THAN SECOND. TOTAL DUR.~ 14 SECS.
FIRST PULSE IS VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3569	950510	9847	28079	19000	189	-66	14

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

Dear Kevin,

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

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

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

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

Date:

Helio corr removed
Feb 14 '98

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

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

2. BATSE Data

- ☐ 2.042 s subtracted for bursts prior to June 25 1992 and DISCSC programs prior to Version 2.16 (August 28 1992)? *N/A*
- ☒ BATSE ephemeris for T₀?
- ☒ Error circle position and radius from public catalog used?
- ☐ If MER data were used, is a 30 ms systematic error included? *N/A*

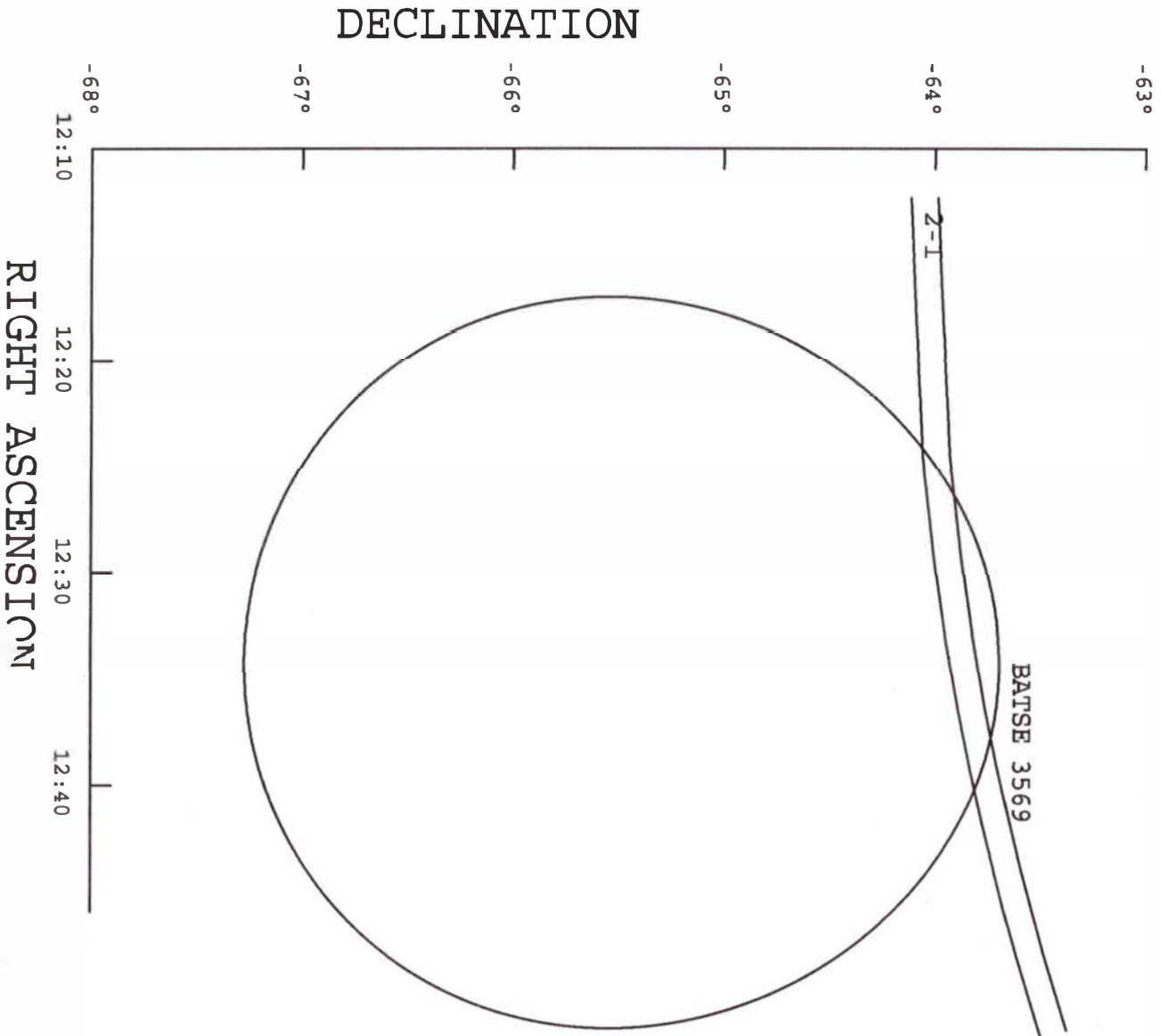
3. PVO Data

- ☐ 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 MAY 10, 1995 8:01

14 / 2/98



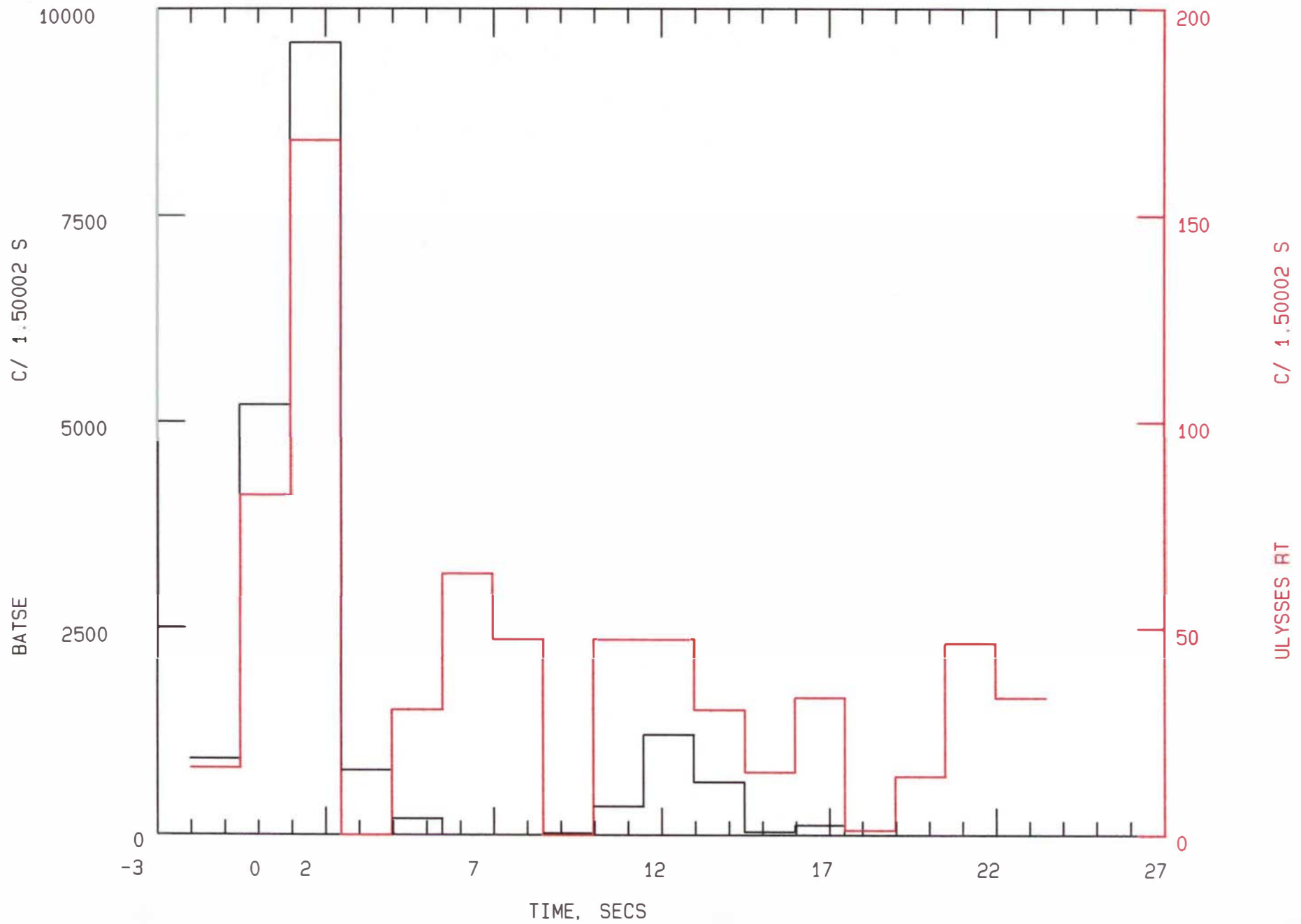
BATSE

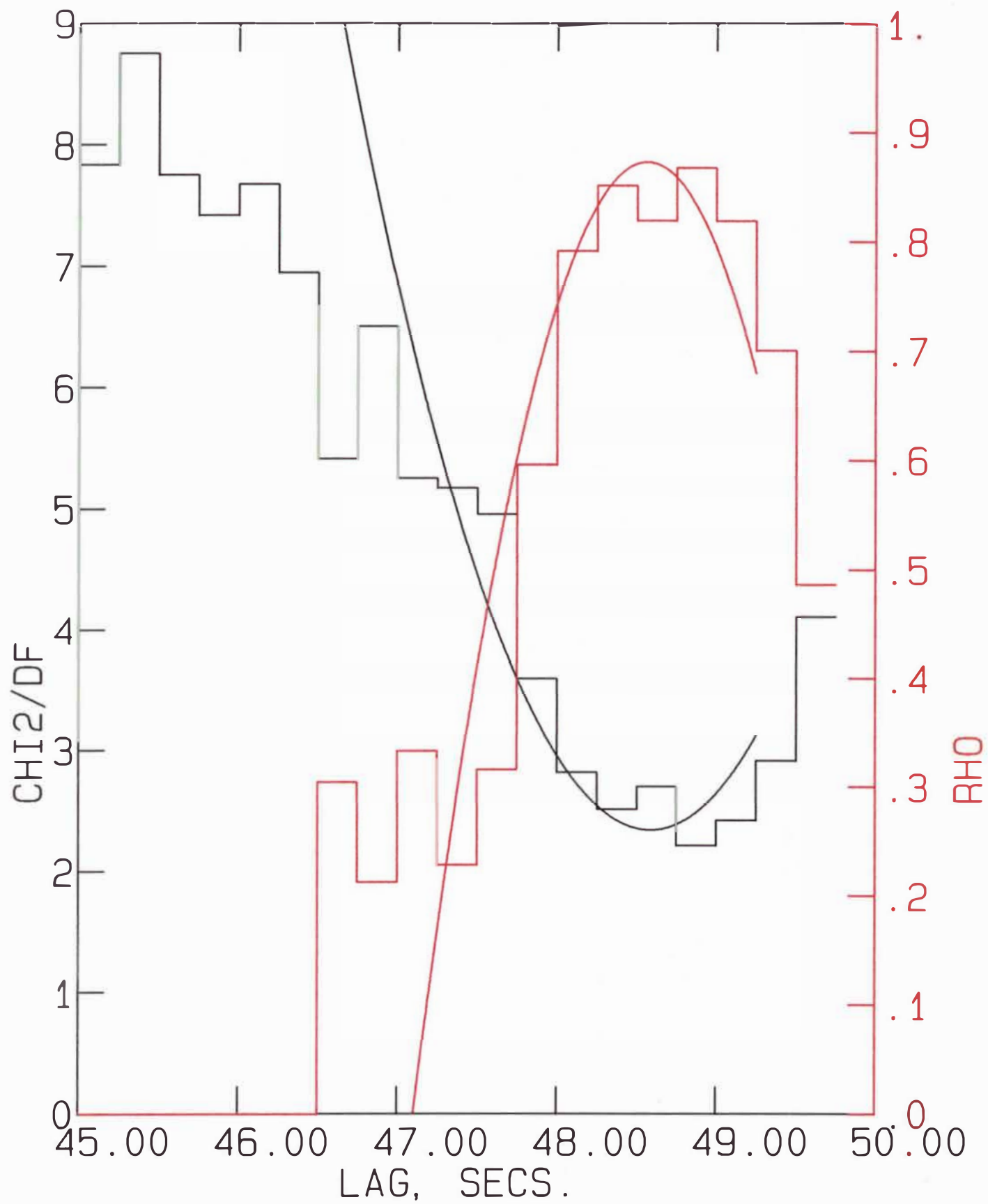
-ULYSSES RT CORRELATION

10/ 5/95

28079.794

14/ 2/98





ULYSSES RT

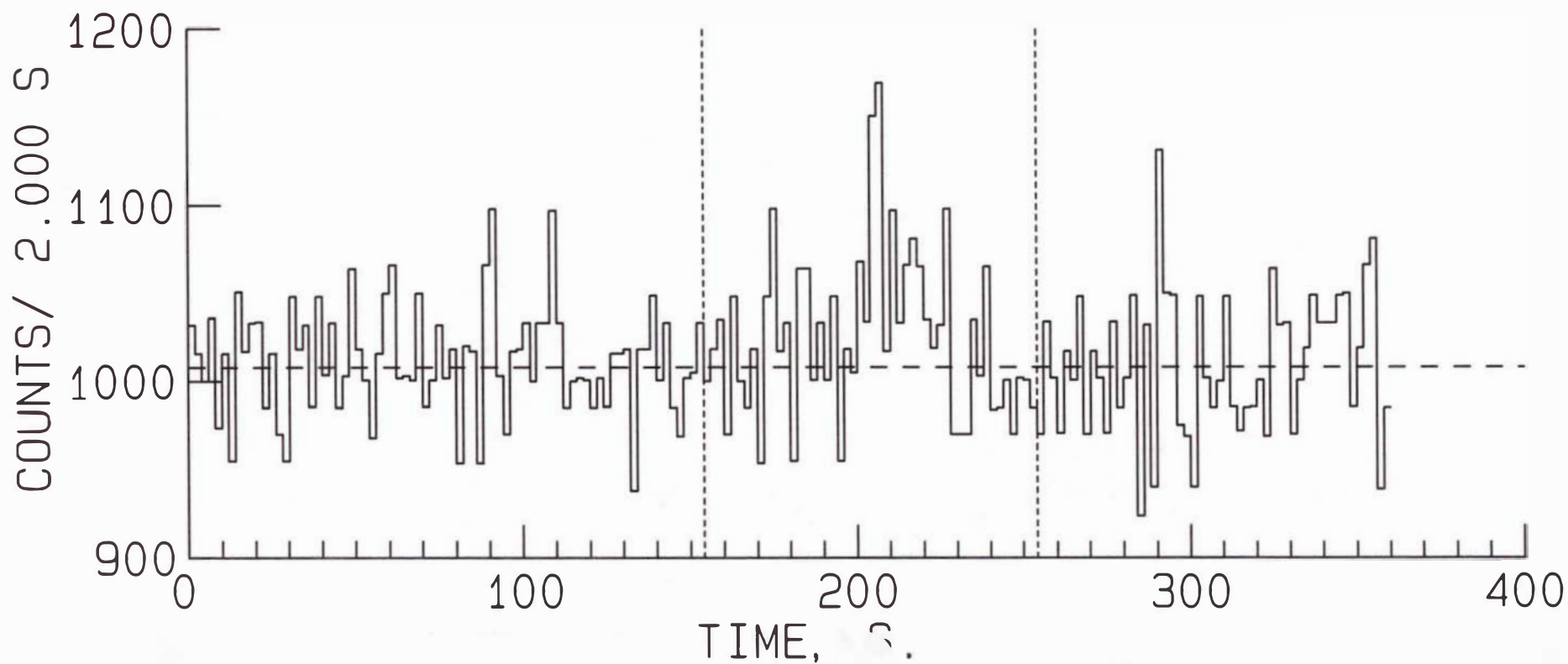
14 / 2 / 98

10/ 5/95 28764.024 s

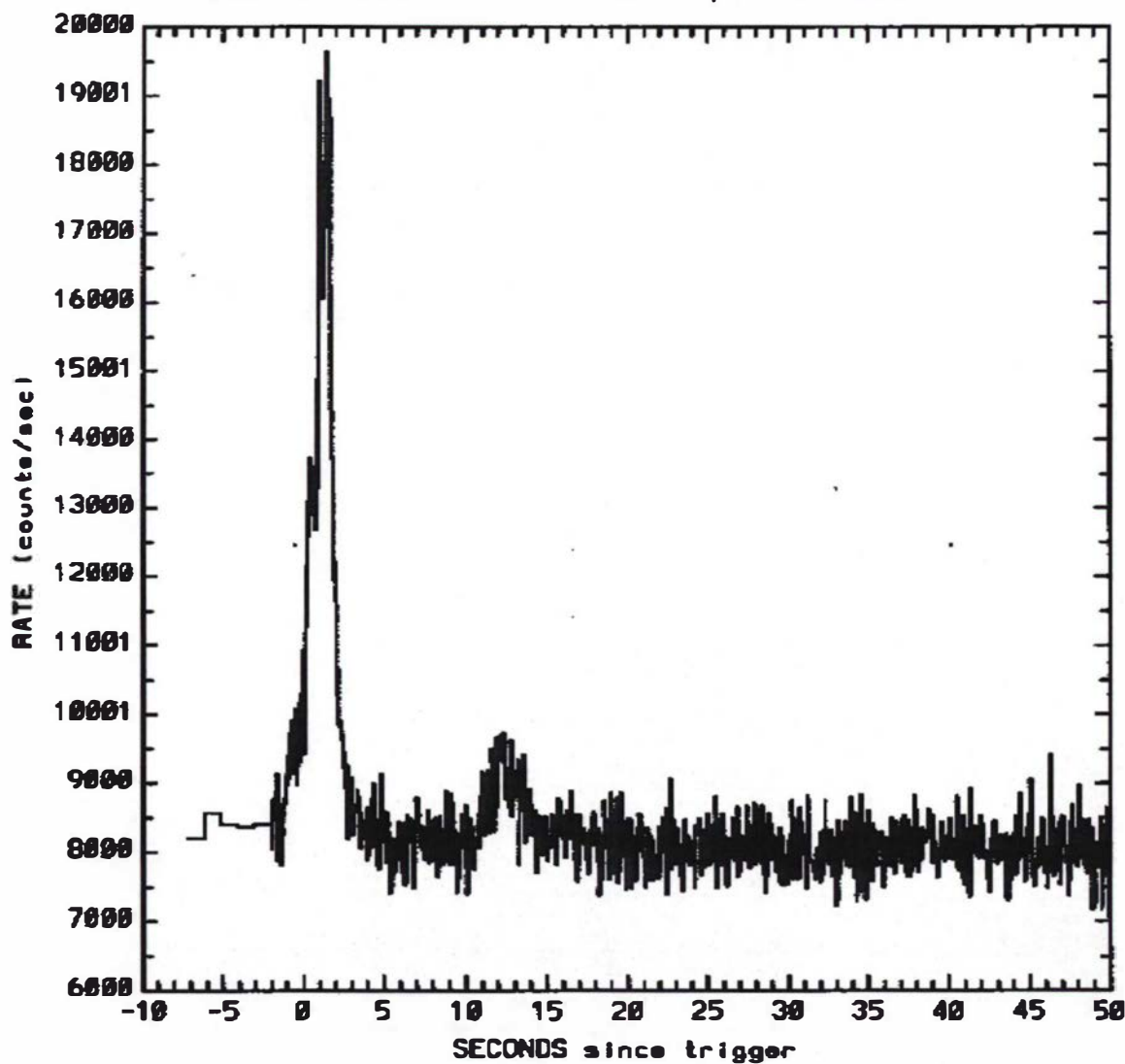
0.250 S INTERVALS REGROUPED BY 8

21- 140 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



DISCSC Data for K. Hurley, No. 3569



26-MAY-1995 10:40:48

Created by MOPS BD
(Burst Display)
Version 12.25

Trigger # . 3569

Trigger Time:
0847 / 28879.794Burst Data Type:
DISCSCDeadtime
Corrected: NBackground Data
Type: PREB + DISCLAMinimum Integ. Time:
0.064 secondsDetectors [7..0].
-654----Discriminators:
[1 . 2]Quality Mask:
BD[SP1

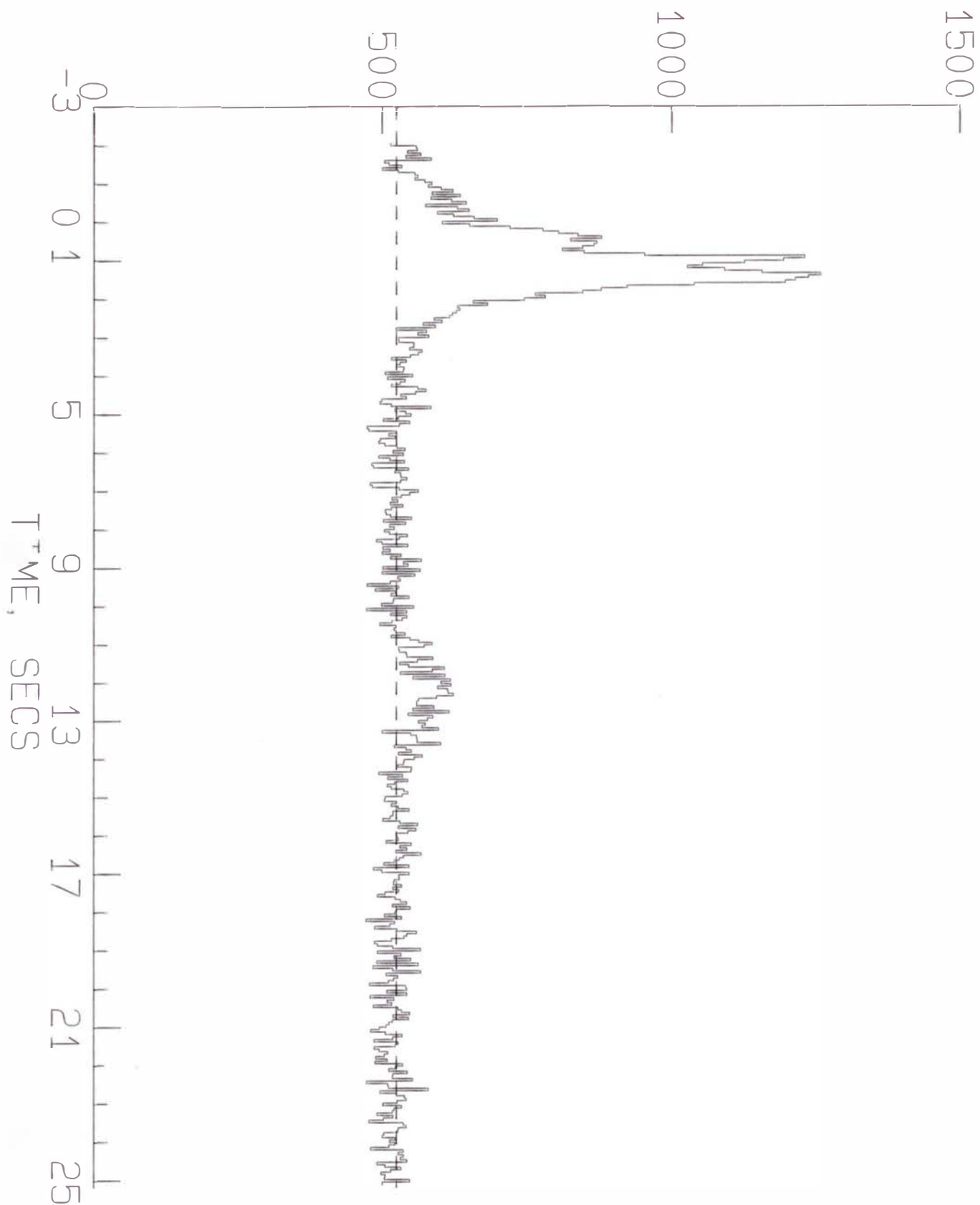
BATSE

10/05/95

28079.794

25- 100 keV

COUNTS/ .064 S



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

From cline@lheavx.gsfc.nasa.gov Fri Feb 2 05:41 PST 1996
 Date: Fri, 2 Feb 1996 05:41:51 -0800
 Mime-Version: 1.0
 To: Bonnard.Teegarden@cesr.cnes.fr, KHURLEY@sunspot.ssl.berkeley.edu,
 palmer@lheamail.gsfc.nasa.gov, seifert@lheamail.gsfc.nasa.gov
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: For Your INFO

Dear Bonnard, Kevin, David, Helmut:

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

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

KONUS

15 / 2 / 96

ULYSSES RT

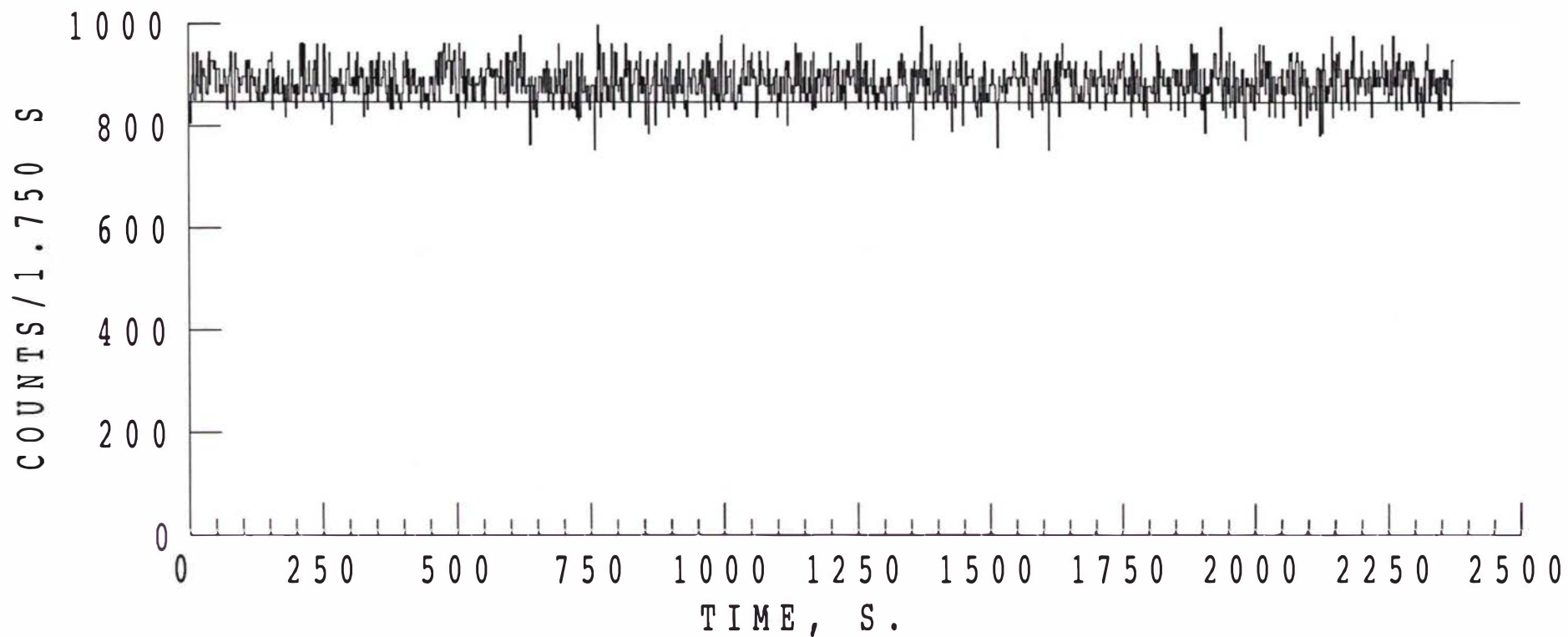
10 / 5 / 95 76500.211 s

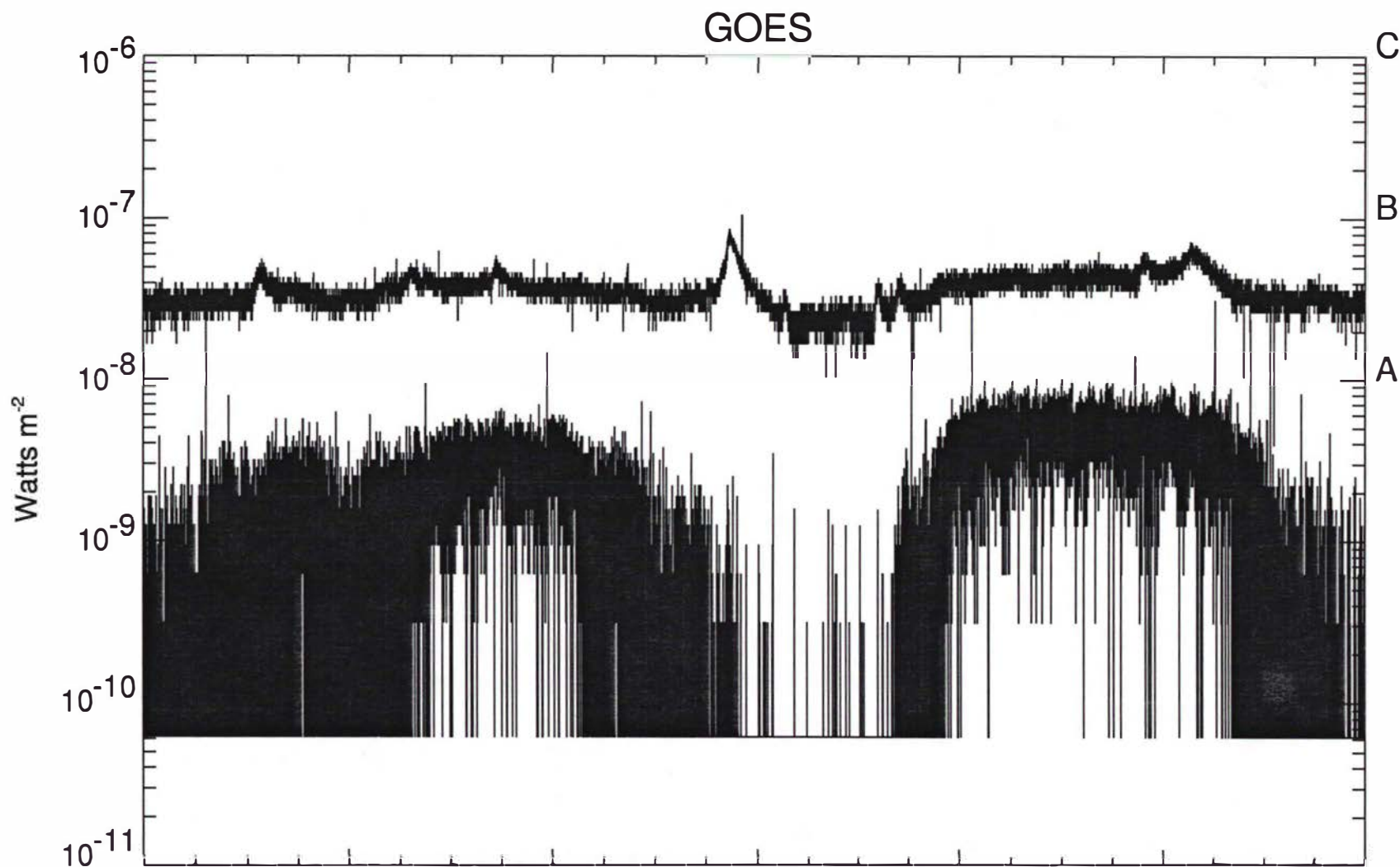
0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

B= 10 M= 2

>4.0 SIGMA FLUCTUATIONS





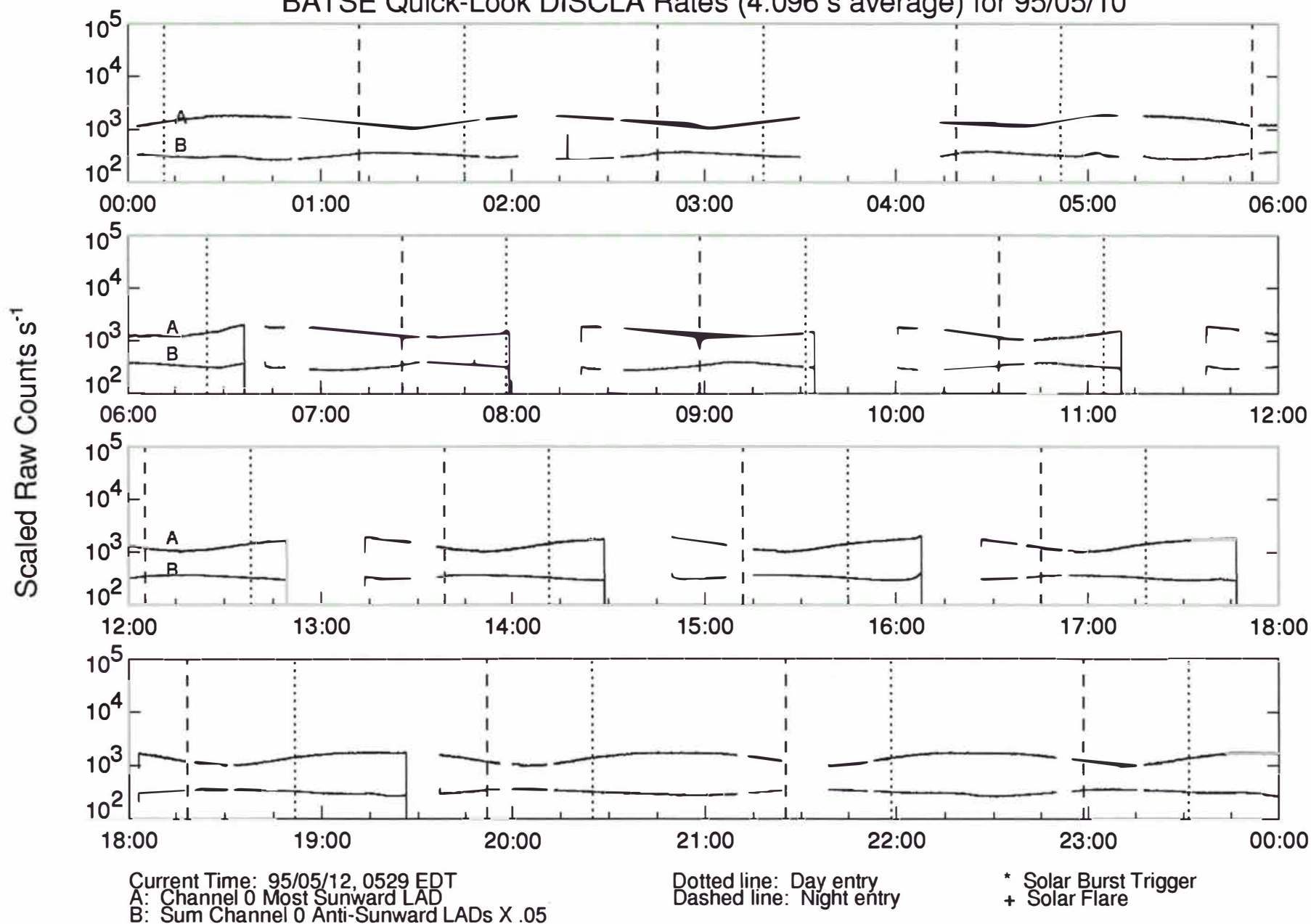
Data Start: 95/05/10, 0000:02

Plot created: 95/05/12, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

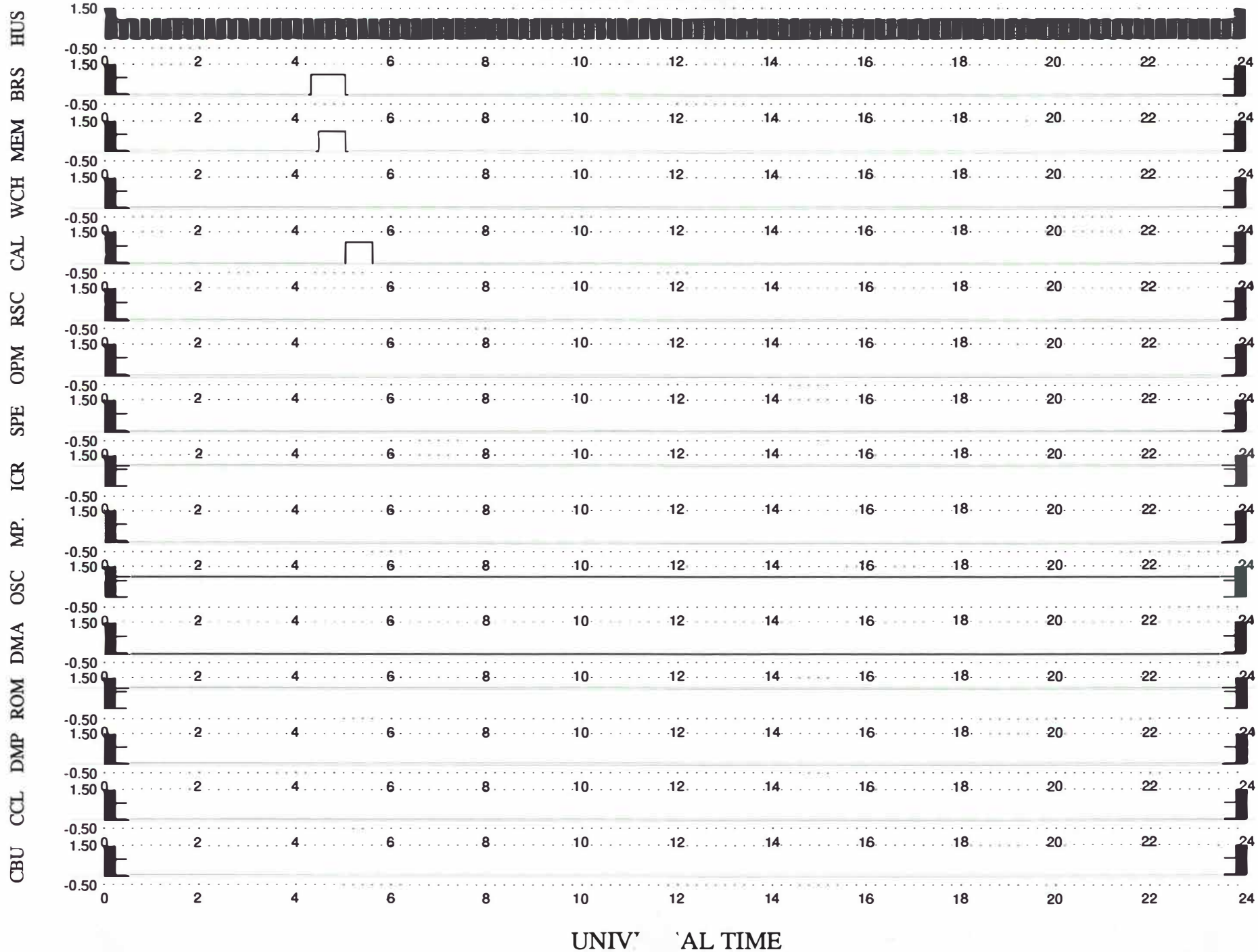
Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/10



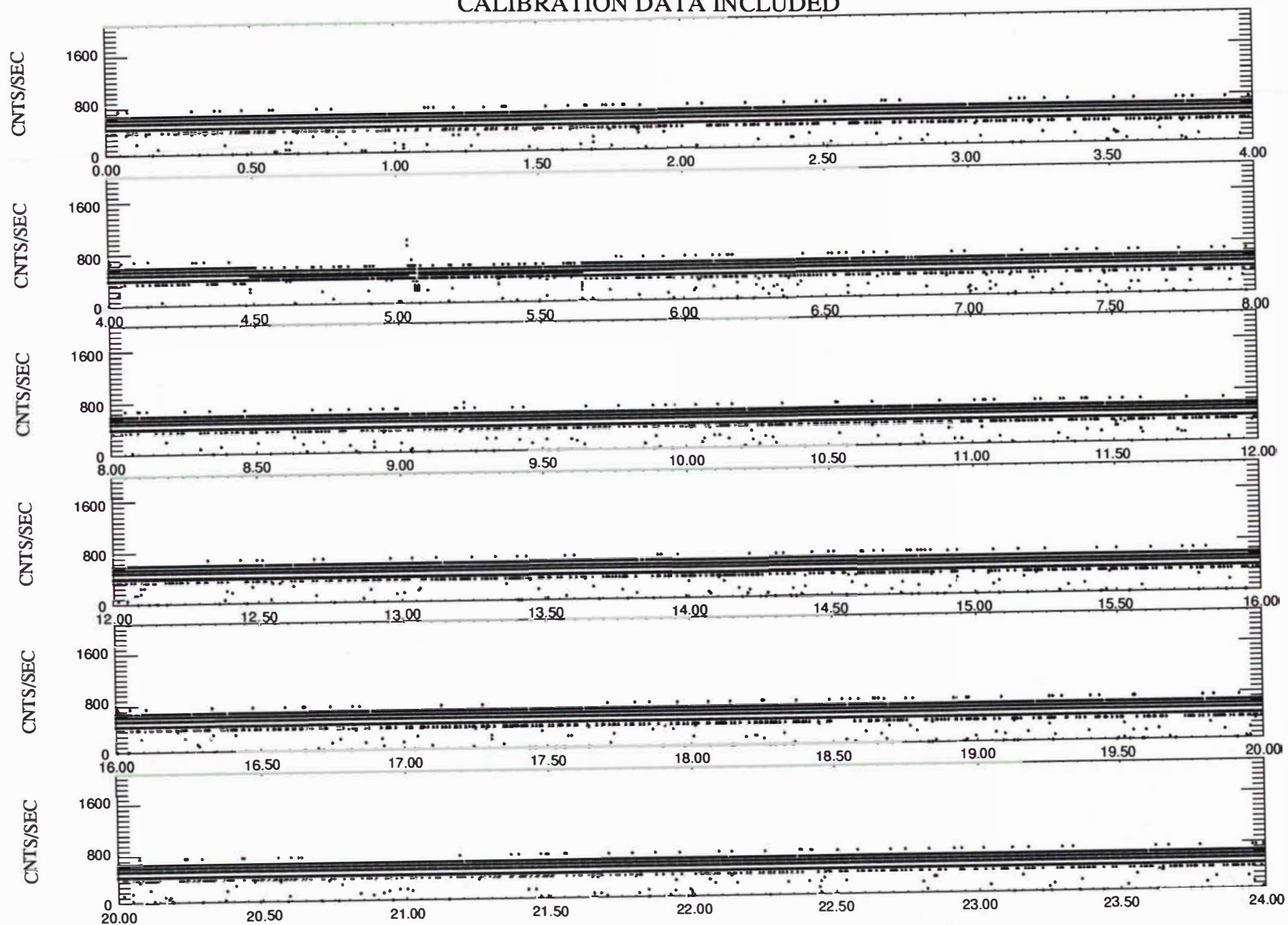
11/21/95

BURST NUMBER 1



HUS 2A, MODE 1, NOT AVERAGED EDR day 130, year 1995 to day 130, year 1995
CALIBRATION DATA INCLUDED

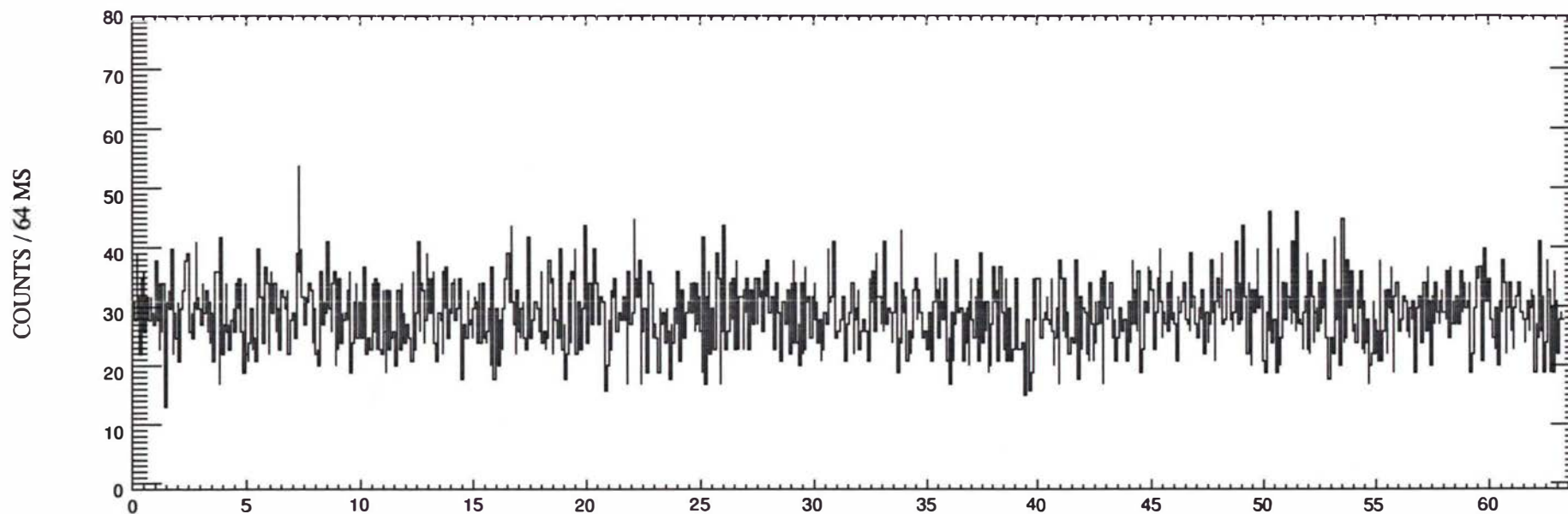
11/21/95



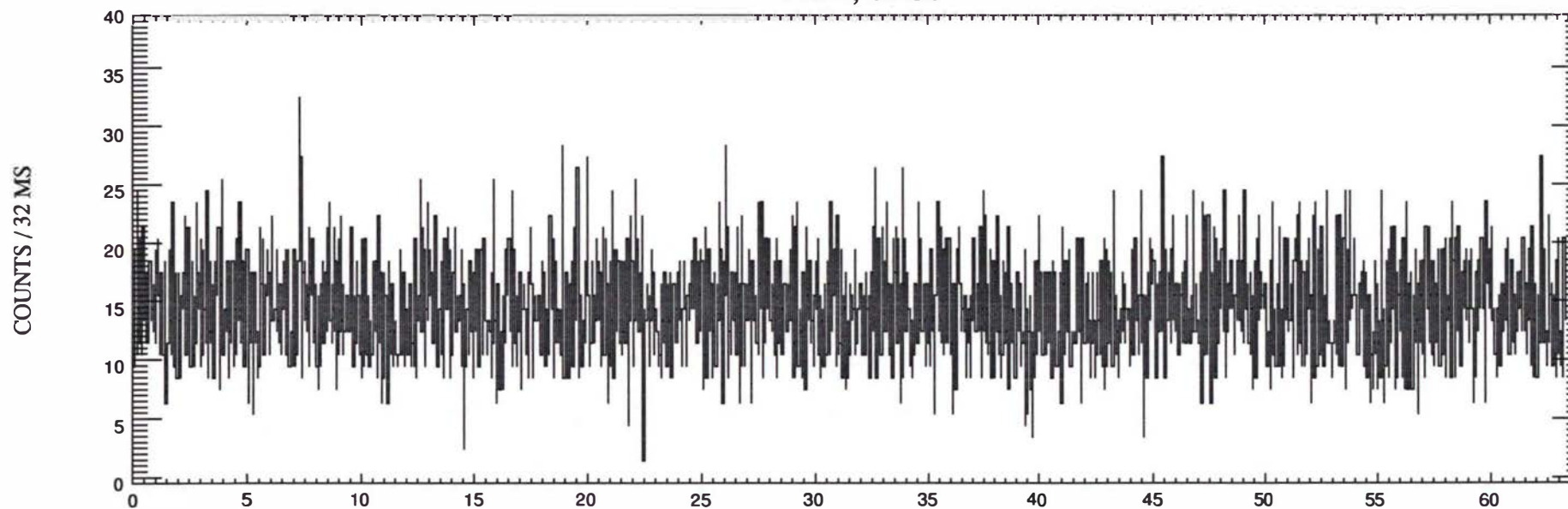
UNIV. TIME

HUS 2A TRIGGERED DATA EDR day 130, year 1995
Burst Counter 1 at UT= 4.327780498928 h=15580.010 s 04:19:40.010

11/21/95



TIME, SECS

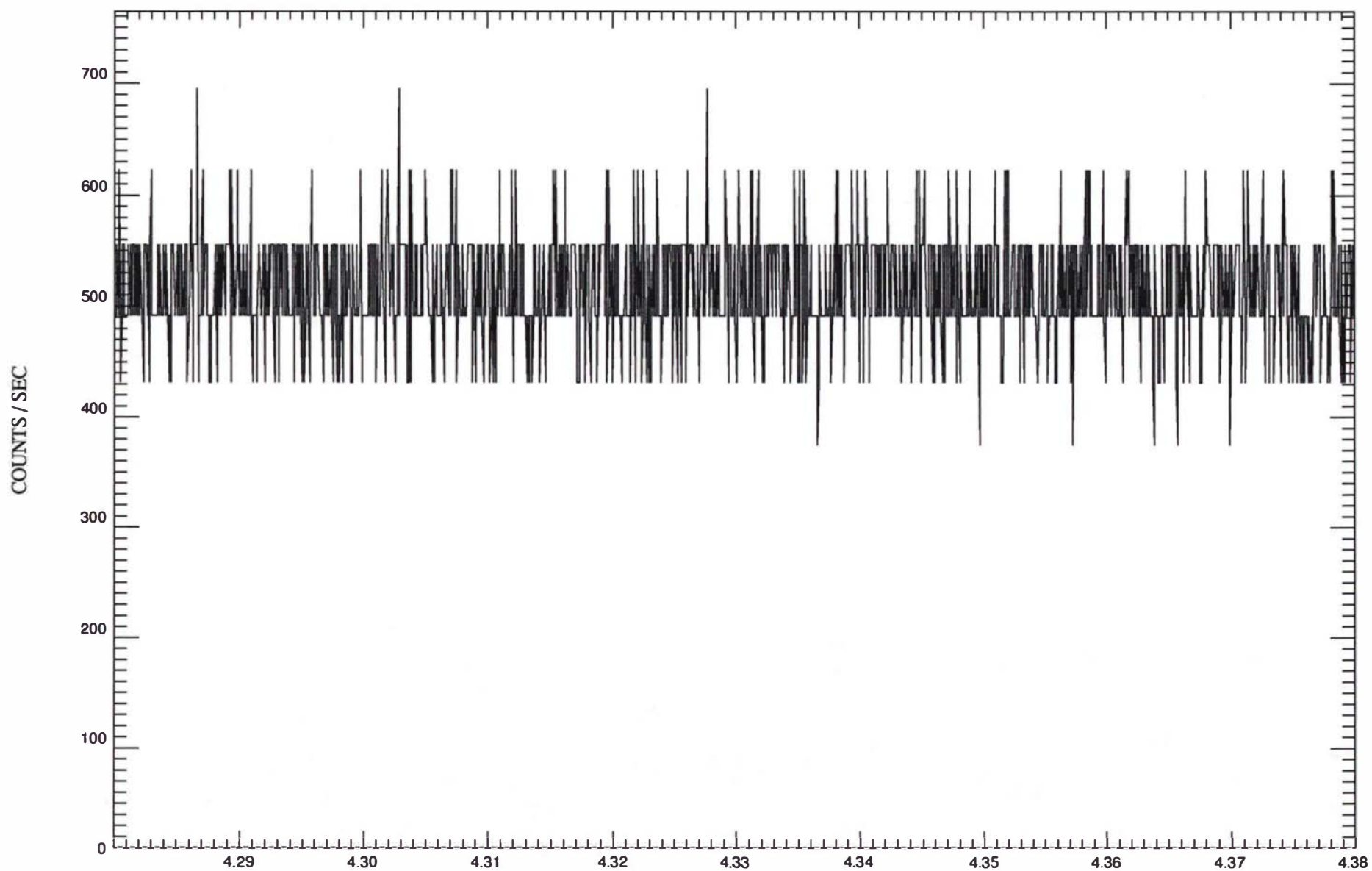


TIME, SECS

B# 1

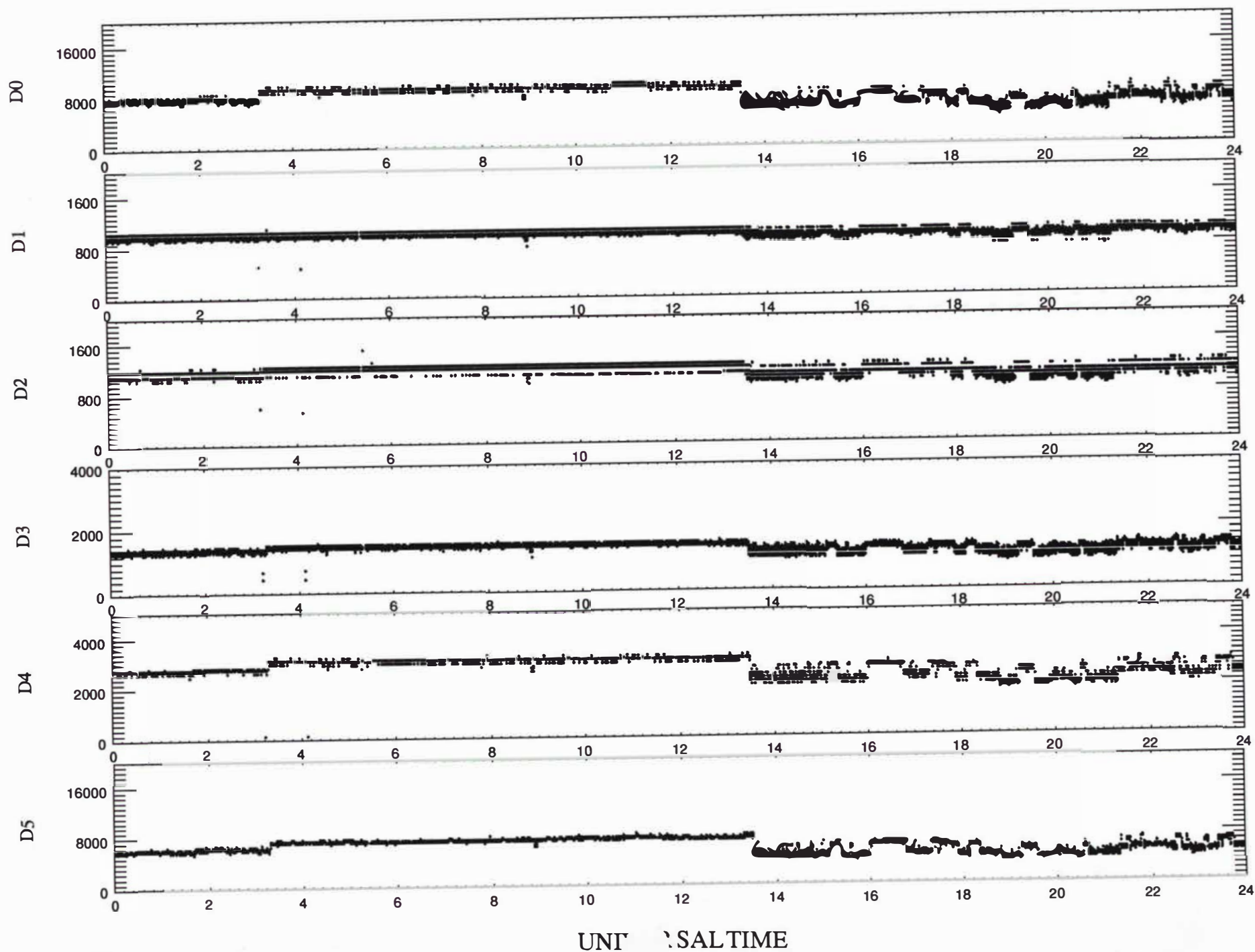
HUS 2A, MODE 1, NOT AVERAGED QEDR day 130, year 1995 to day 130, year 1995
CALIBRATION DATA INCLUDED

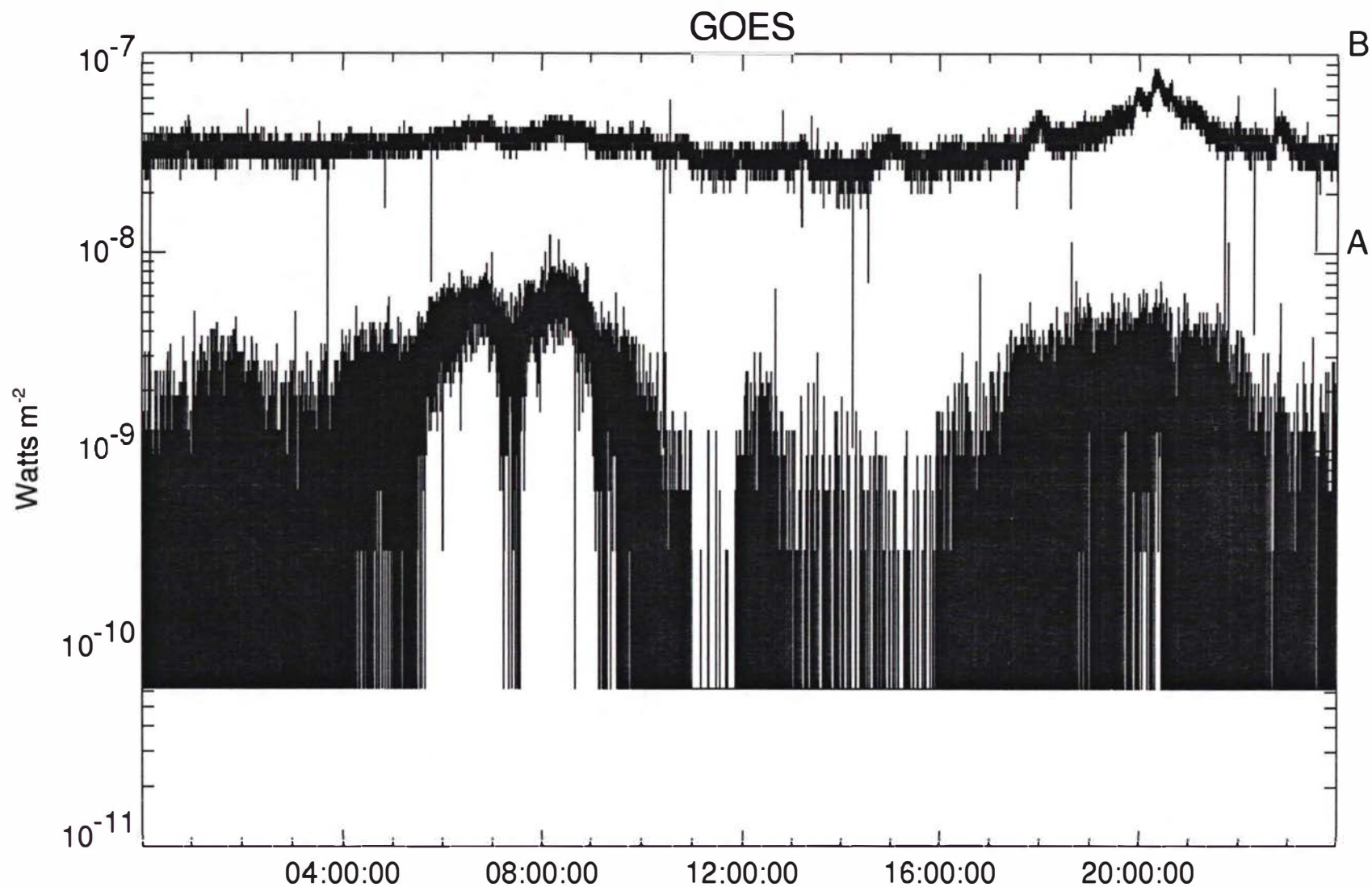
5/12/95



HUS 2B COUNTS / SEC QEDR day 130, year 1995 to day 130, year 1995

5/12/95





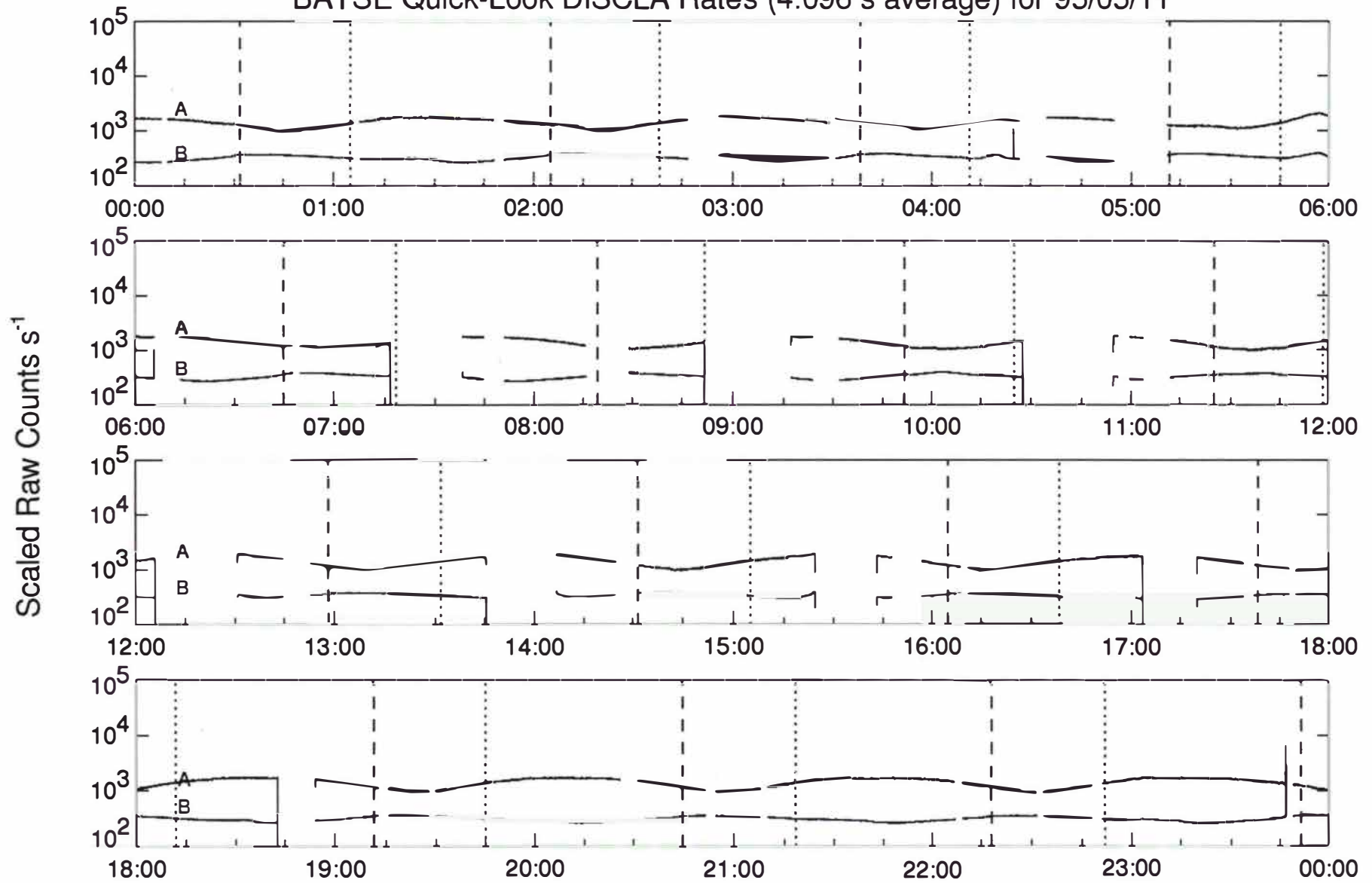
Data Start: 95/05/11, 0000:00

Plot created: 95/05/13, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/11



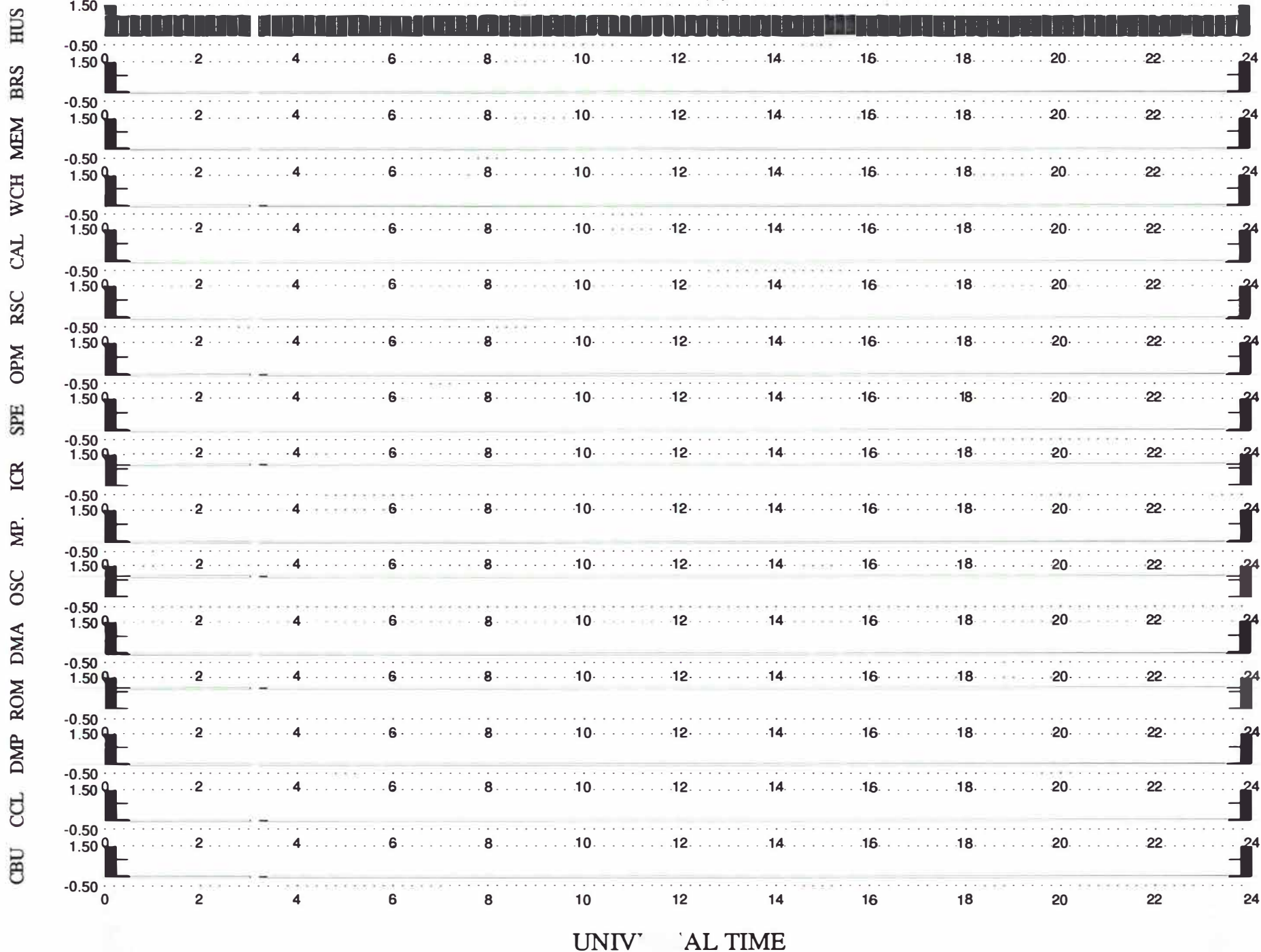
Current Time: 95/05/13, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

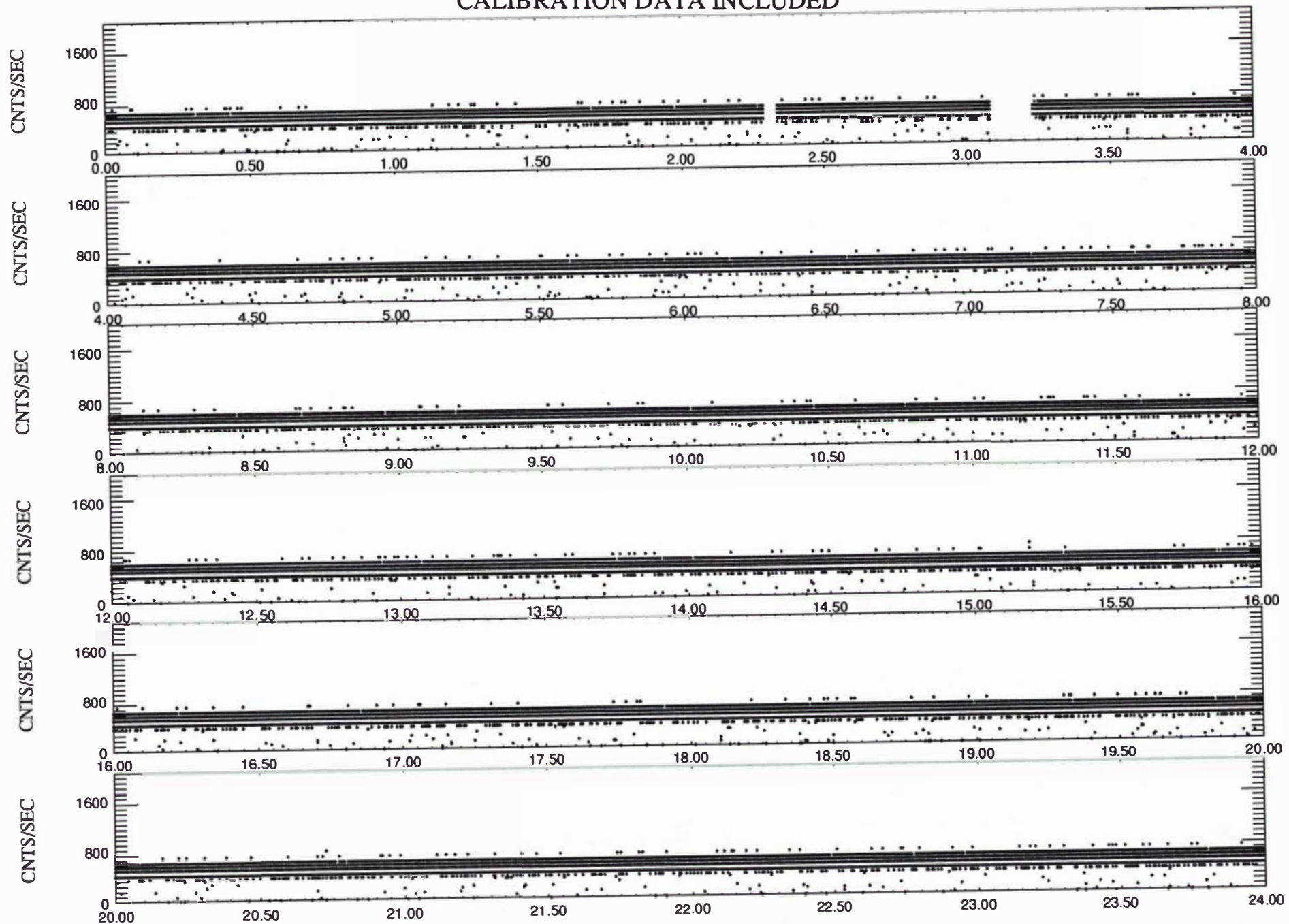
HUS MODES EDR day 131, year 1995 to day 131, year 1995 NO BURST (1)

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 131, year 1995 to day 131, year 1995
CALIBRATION DATA INCLUDED

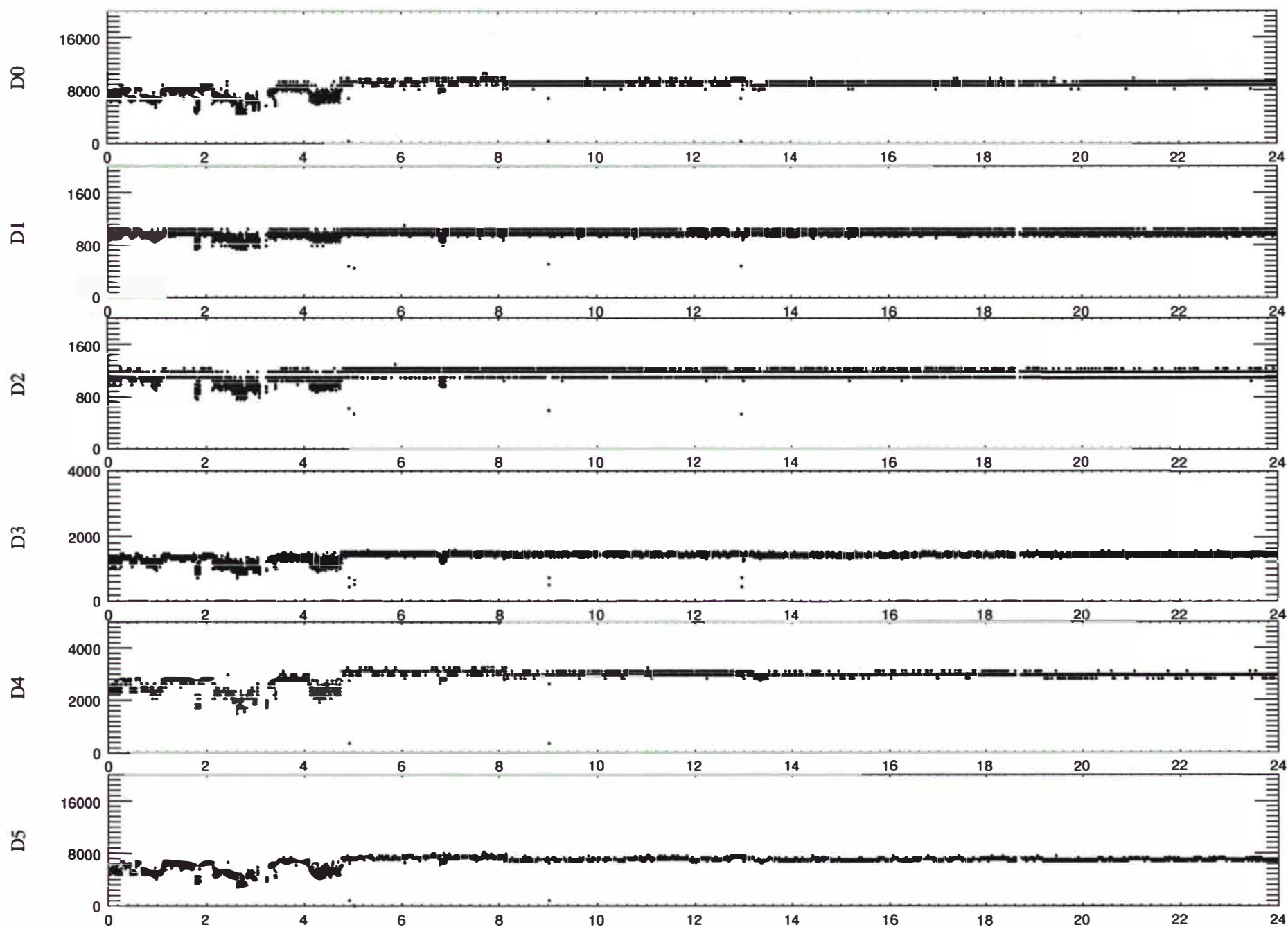
11/21/95



UNIV TIME

HUS 2B COUNTS / SEC QEDR day 131, year 1995 to day 131, year 1995

5/15/95



UNIVERSAL TIME

Date: Aug 24 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

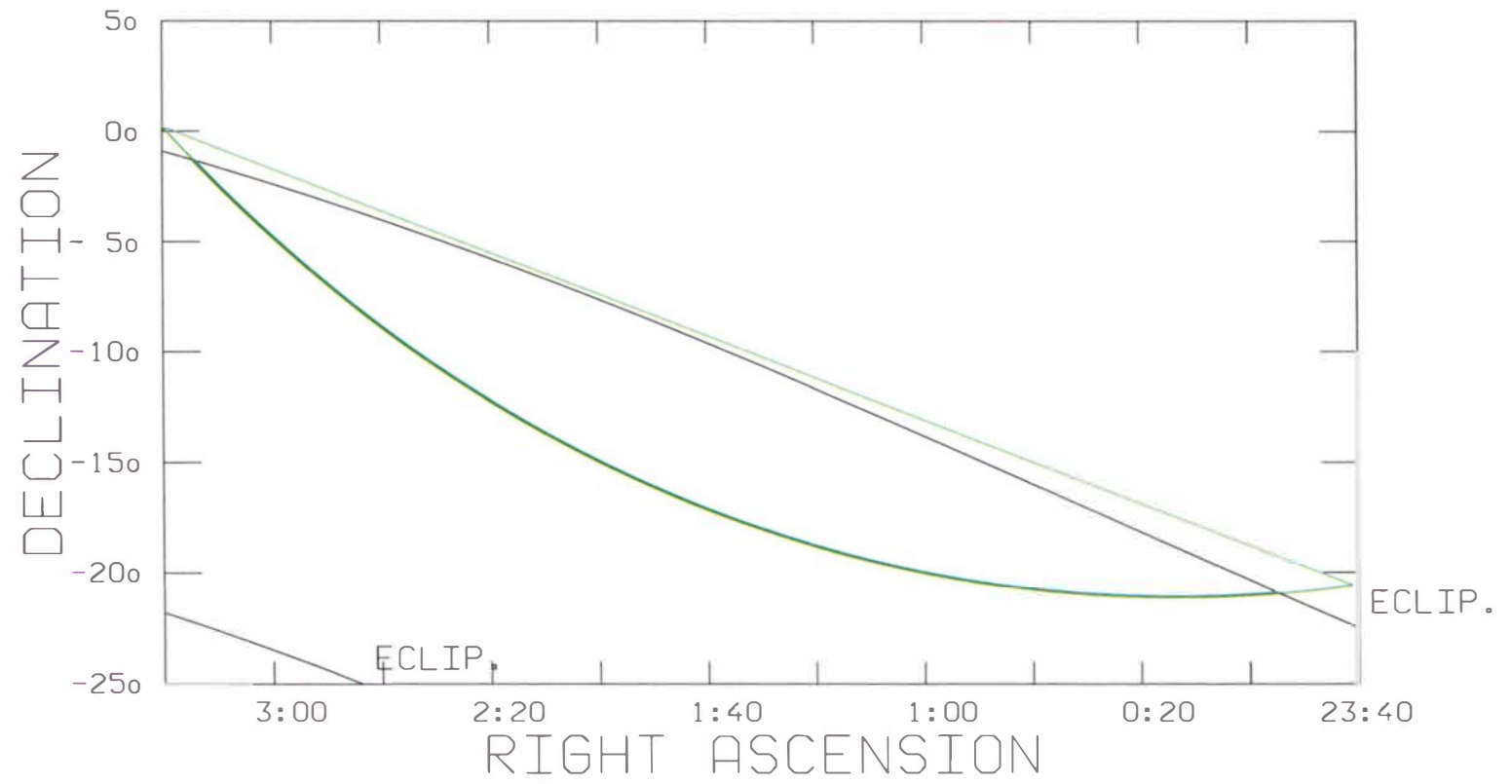
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

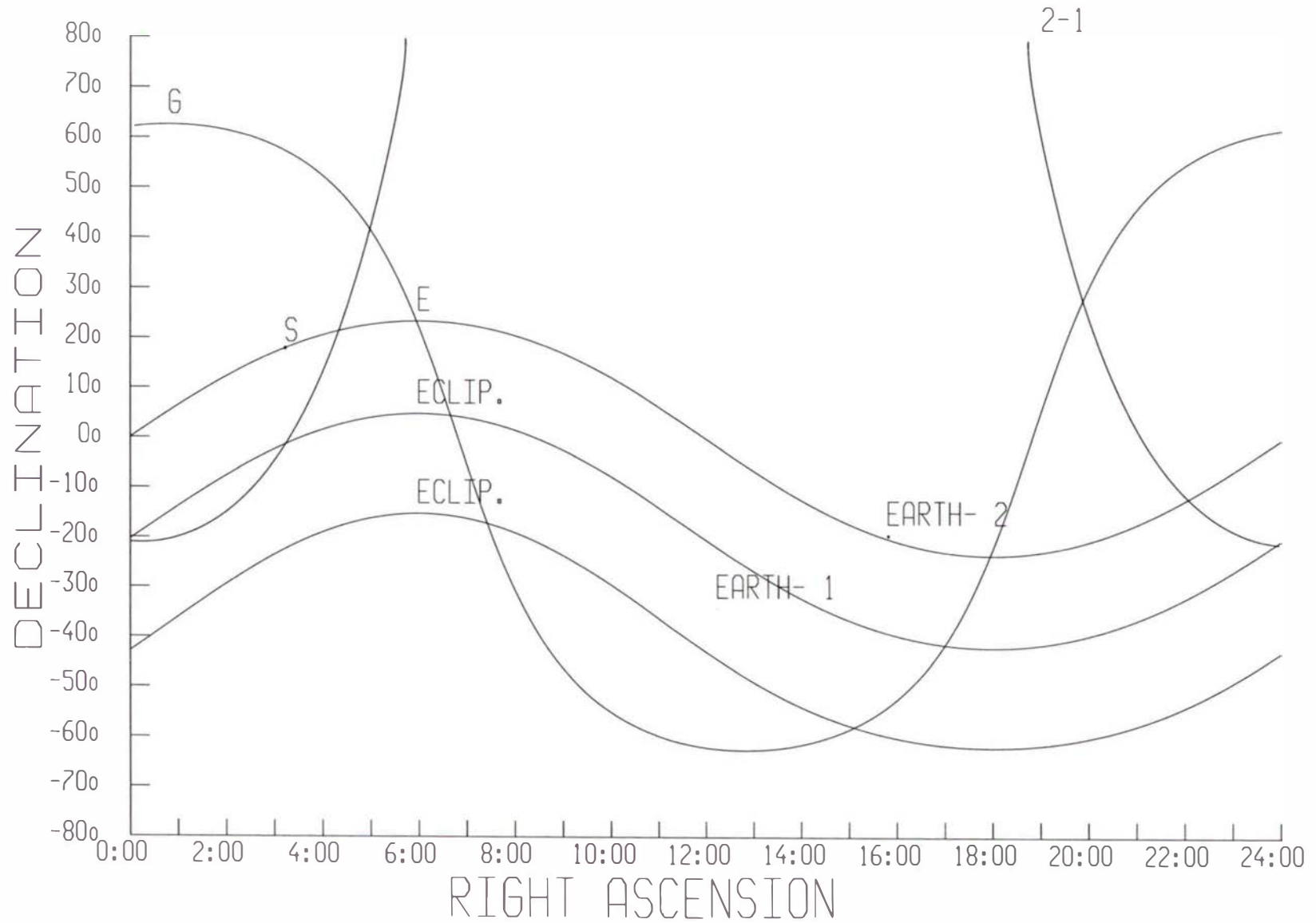
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

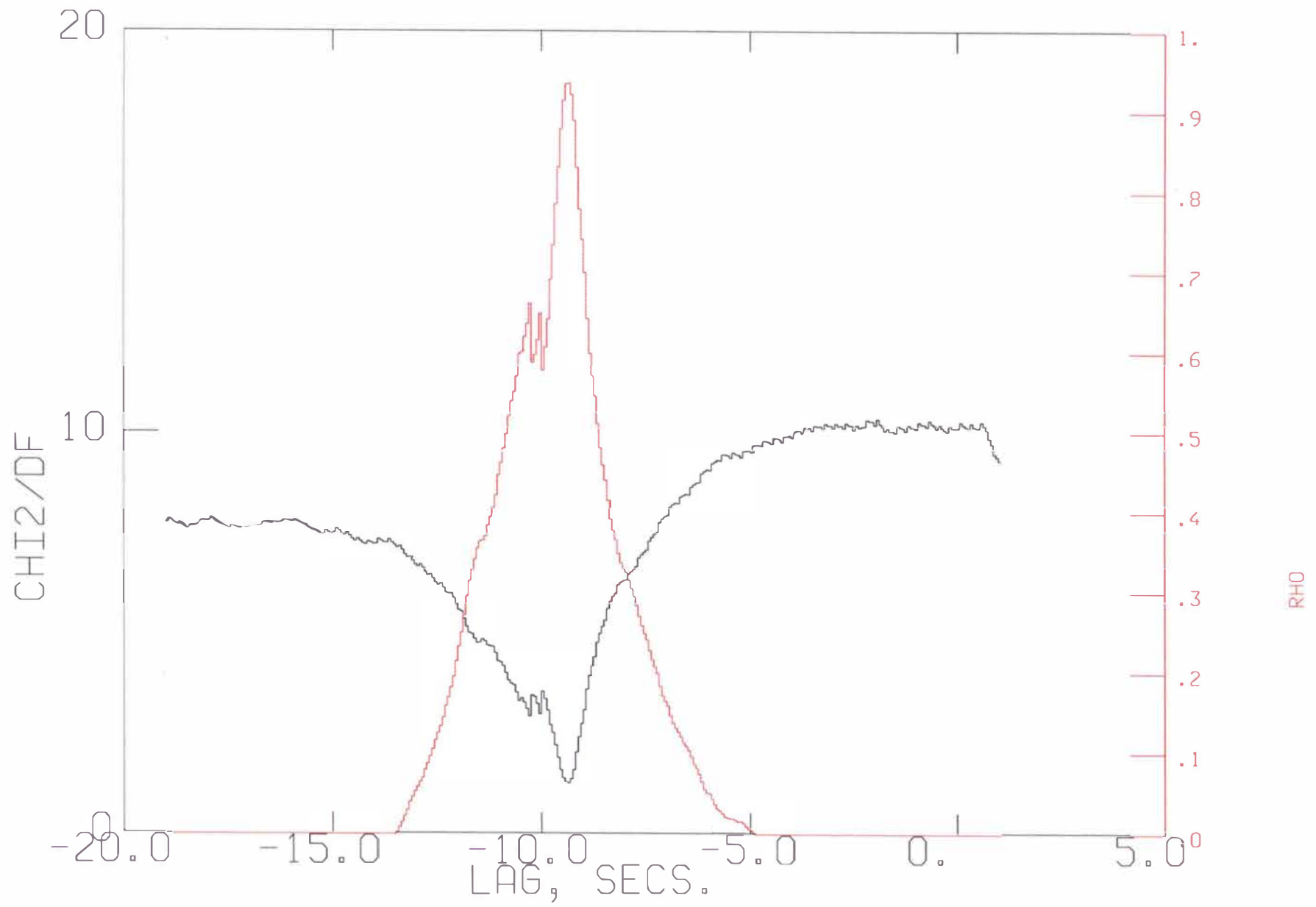


EVENT OF MAY 12, 1995 0:06

24/08/2011

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





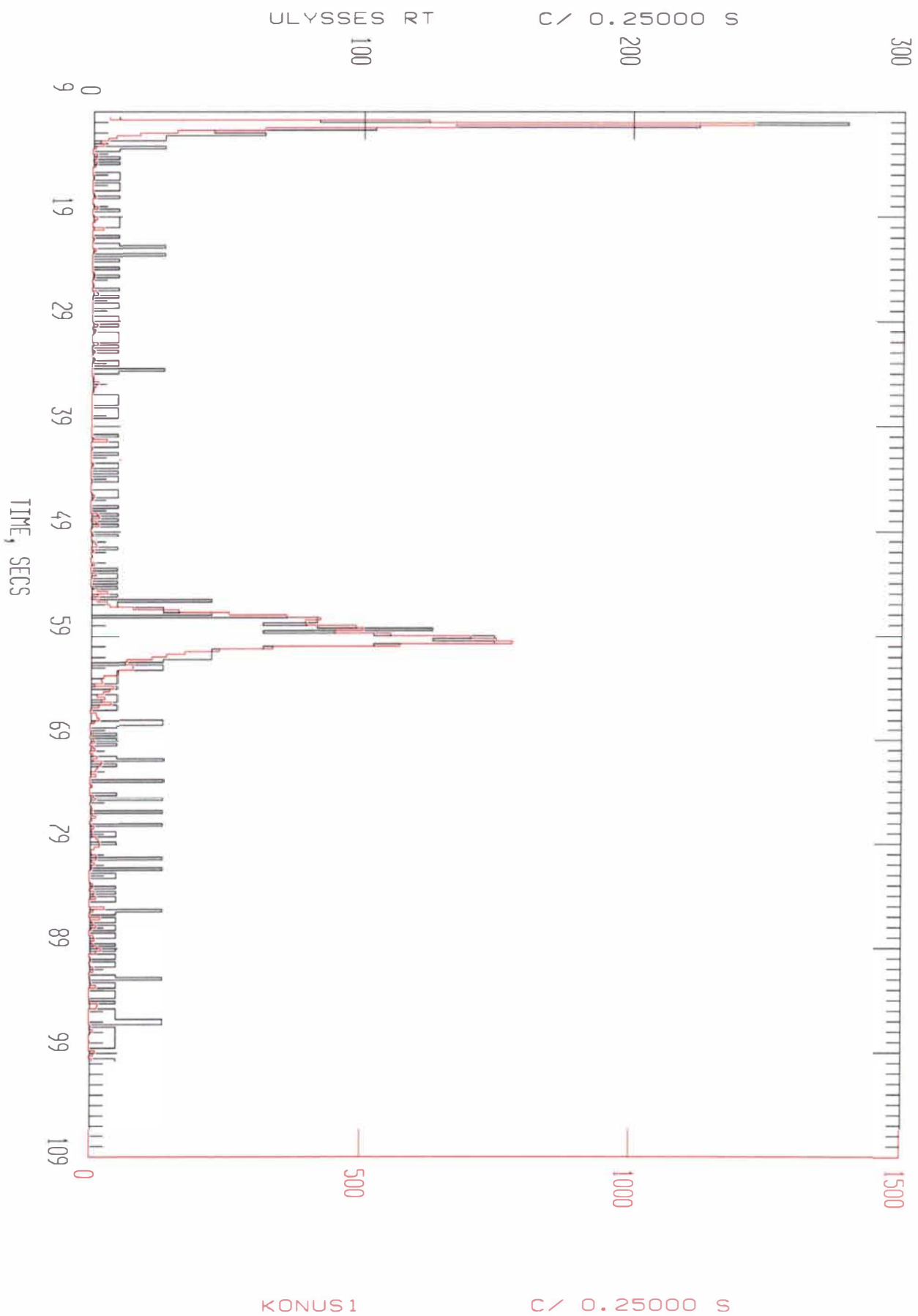
ULYSSES RT-KONUS1

CORRELATION

12/ 5/95

404.070

24/ 8/11



KONUS 19950512 00414

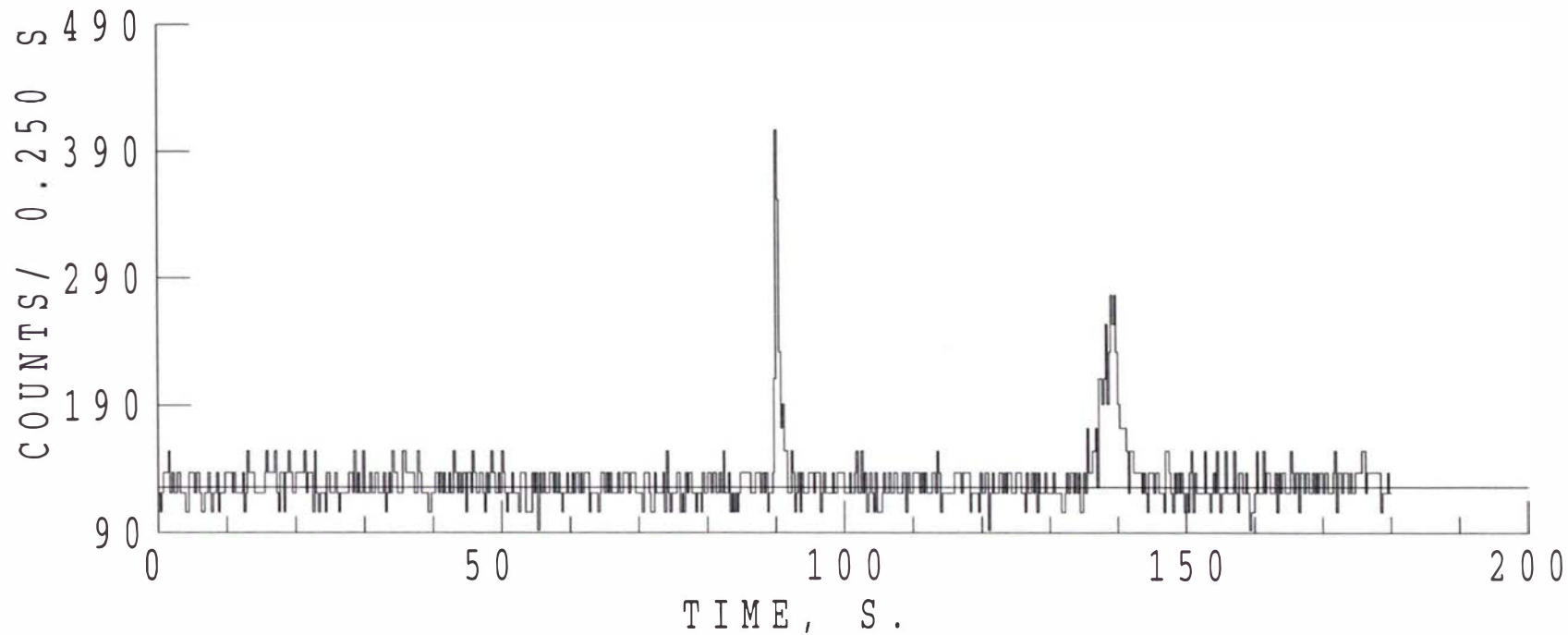
ULYSSES RT

23 / 08 / 11

12 / 05 / 95 324.089 s

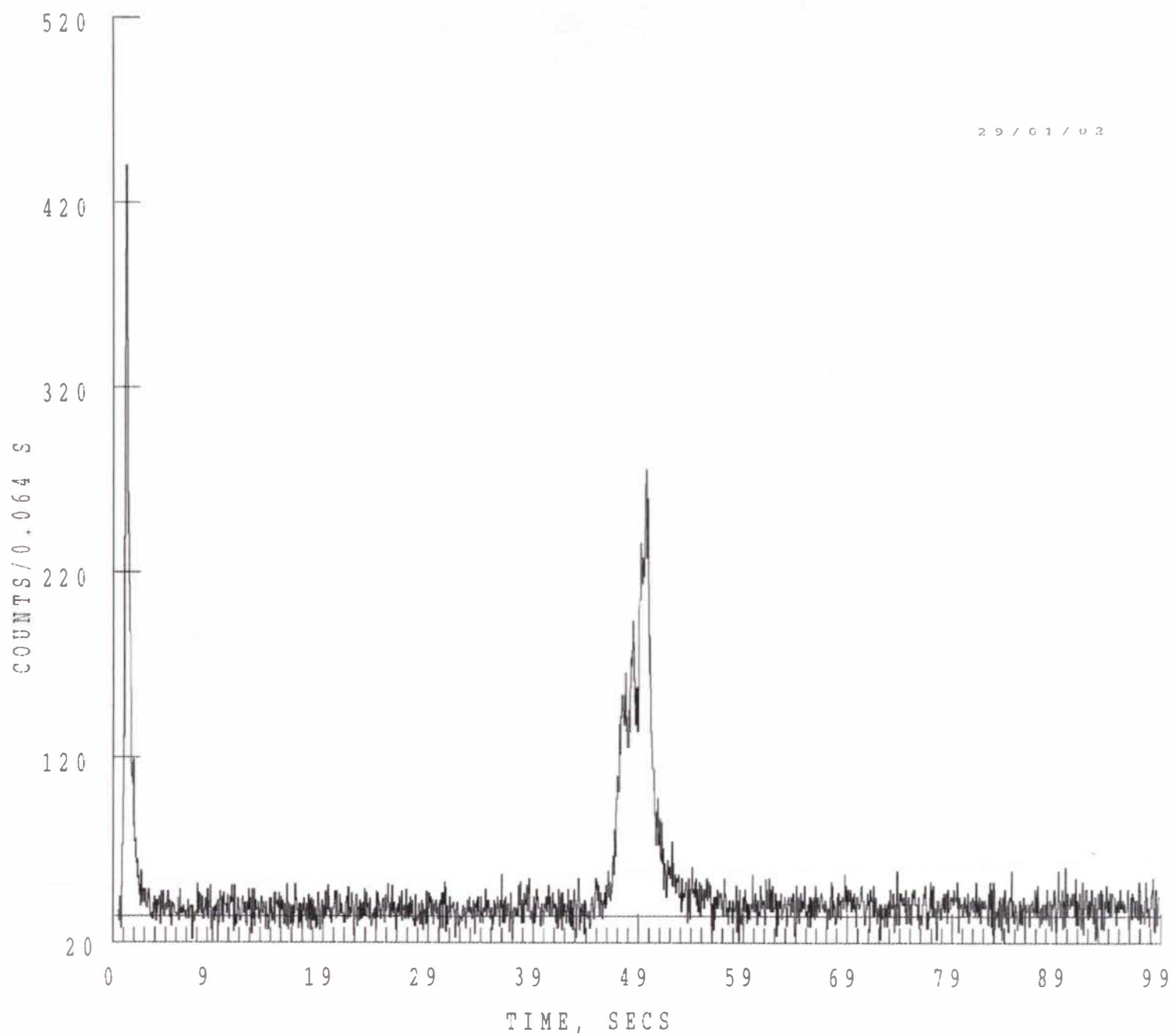
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



12/05/95 1003.891

KONUS1

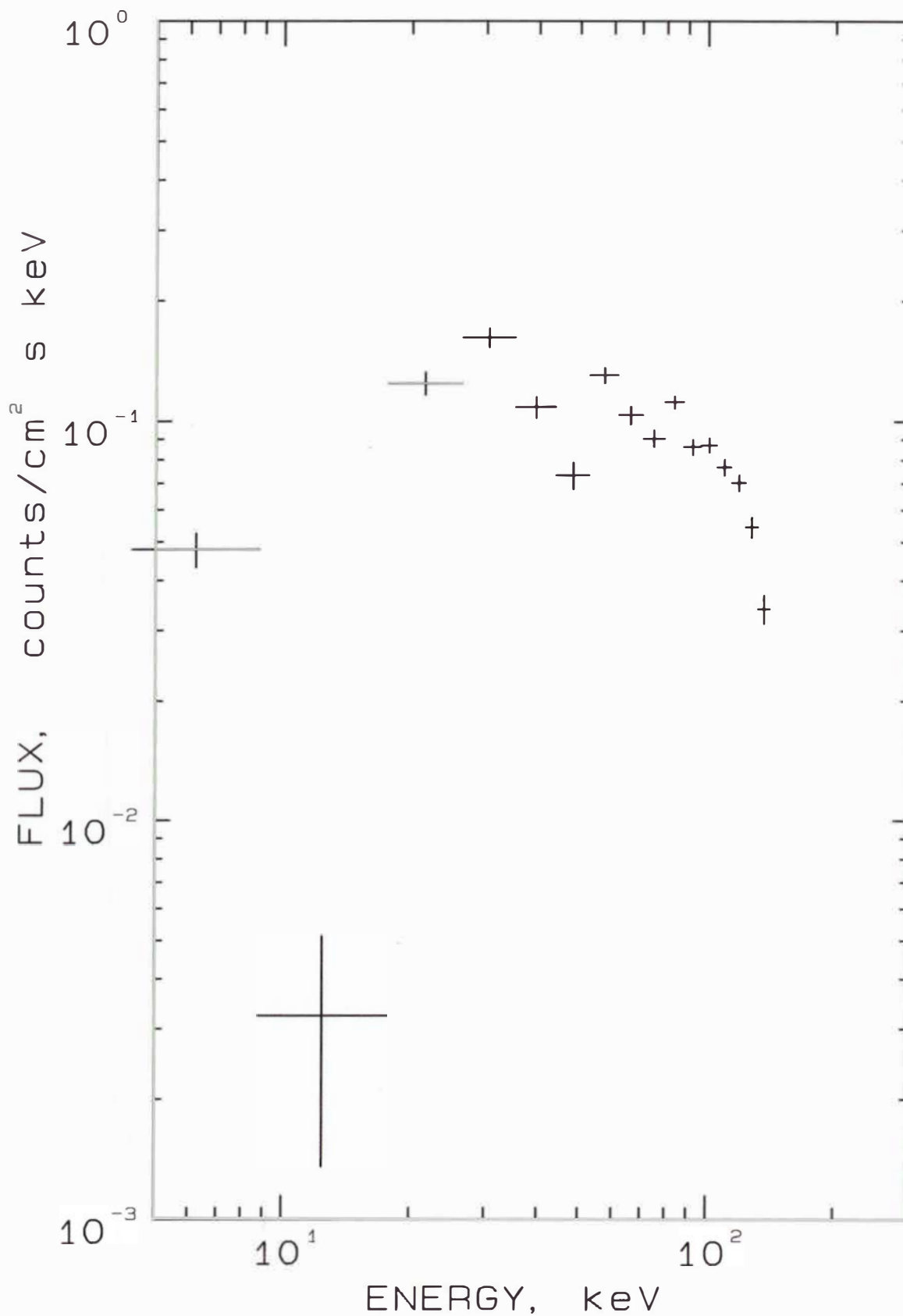


ULYSSES 12/05/95

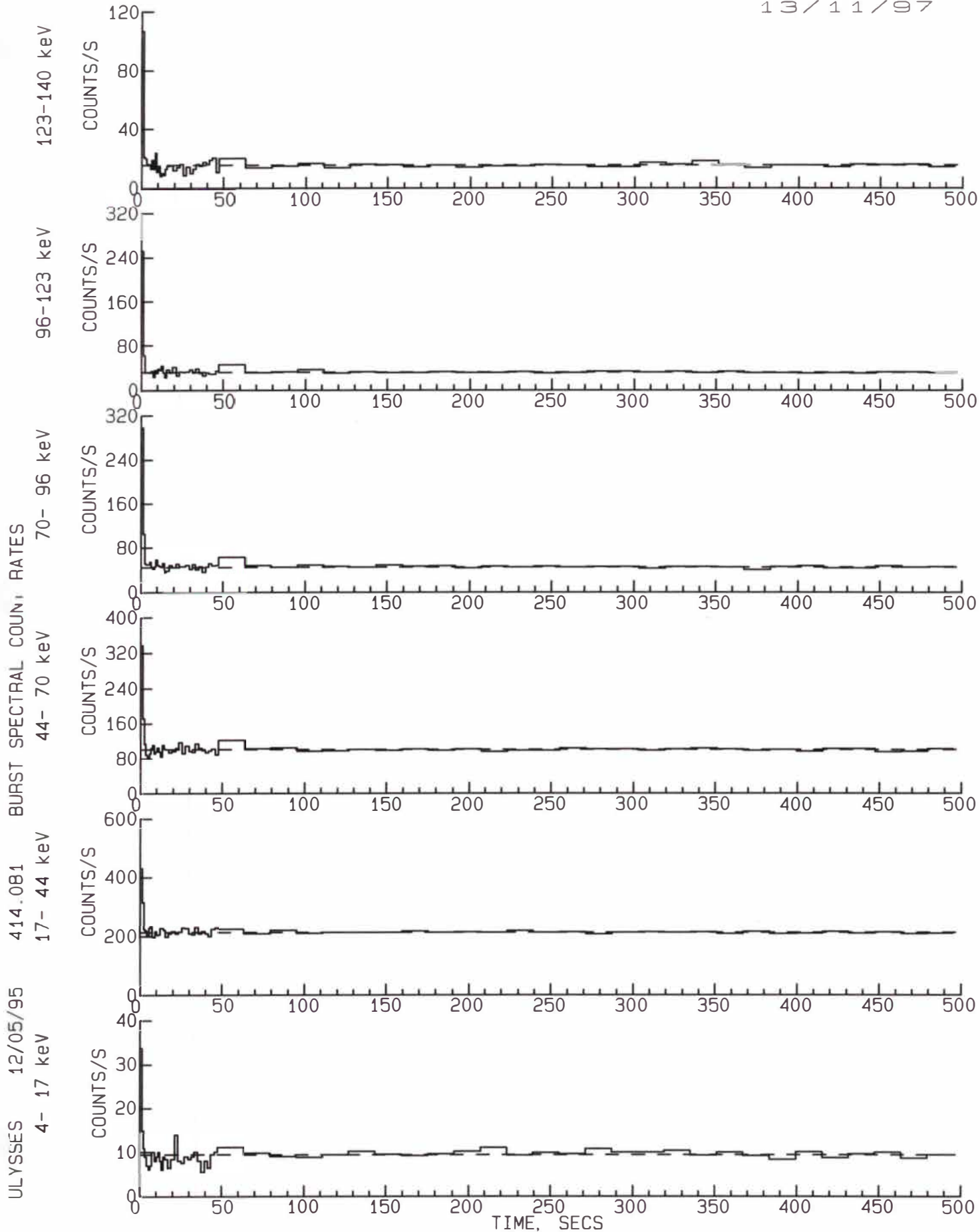
414.081

13/11/97

SPECTRUM INTEGRATED OVER 111.3 SECONDS, INTERVALS 2 TO 37



13/11/97



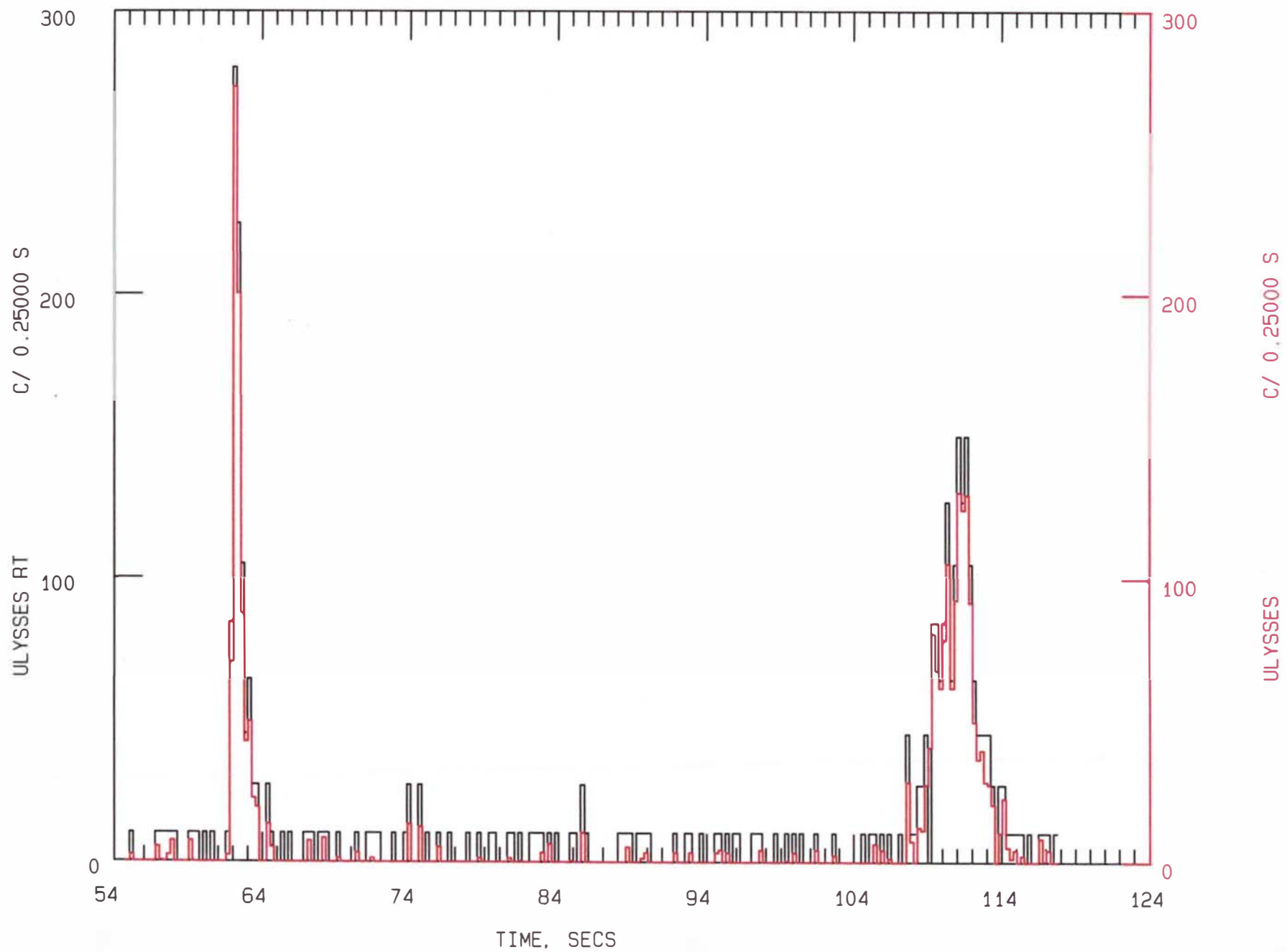
ULYSSES RT-ULYSSES

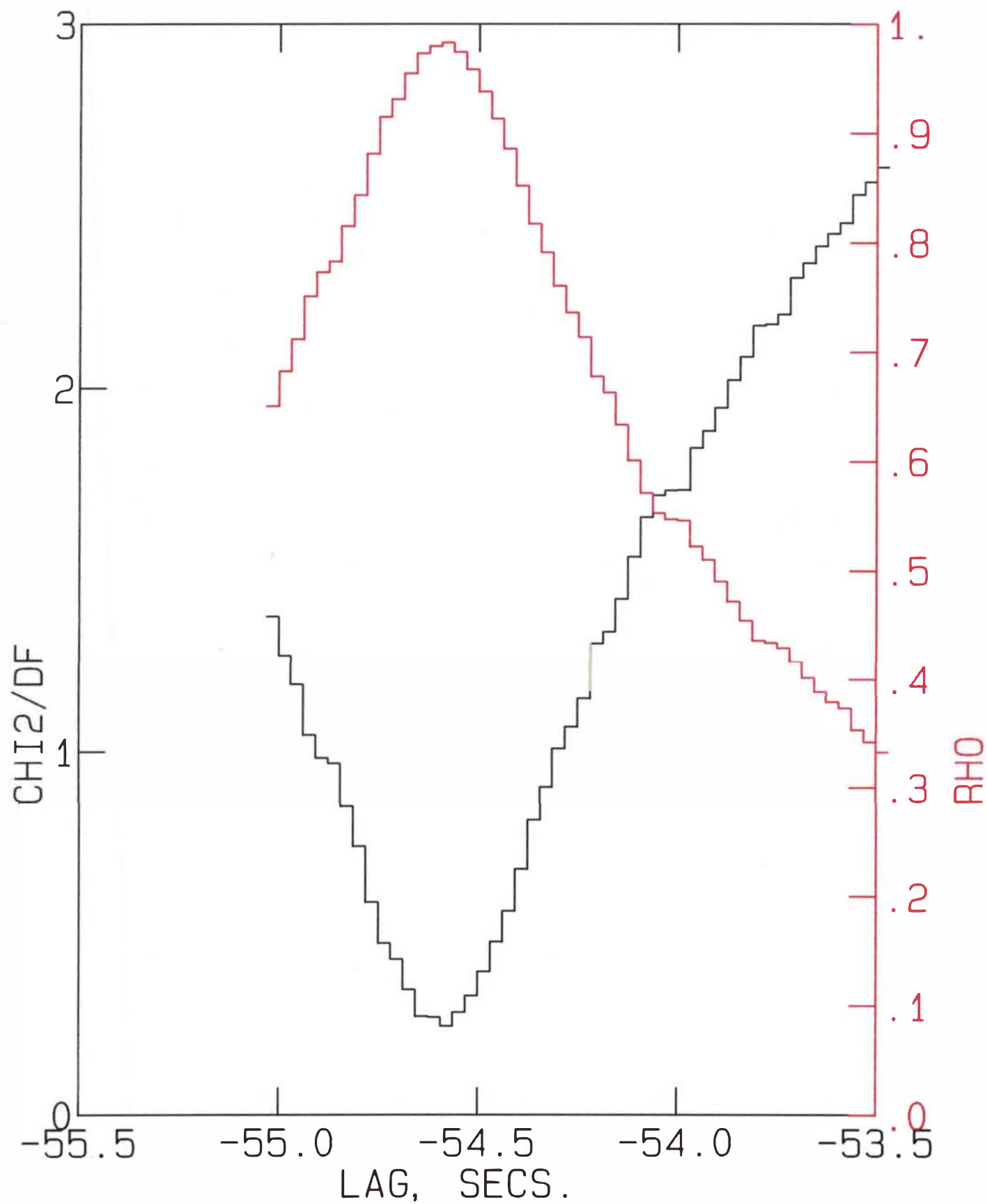
CORRELATION

12/ 5/95

352.118

13/11/97





ULYSSES

12/05/95

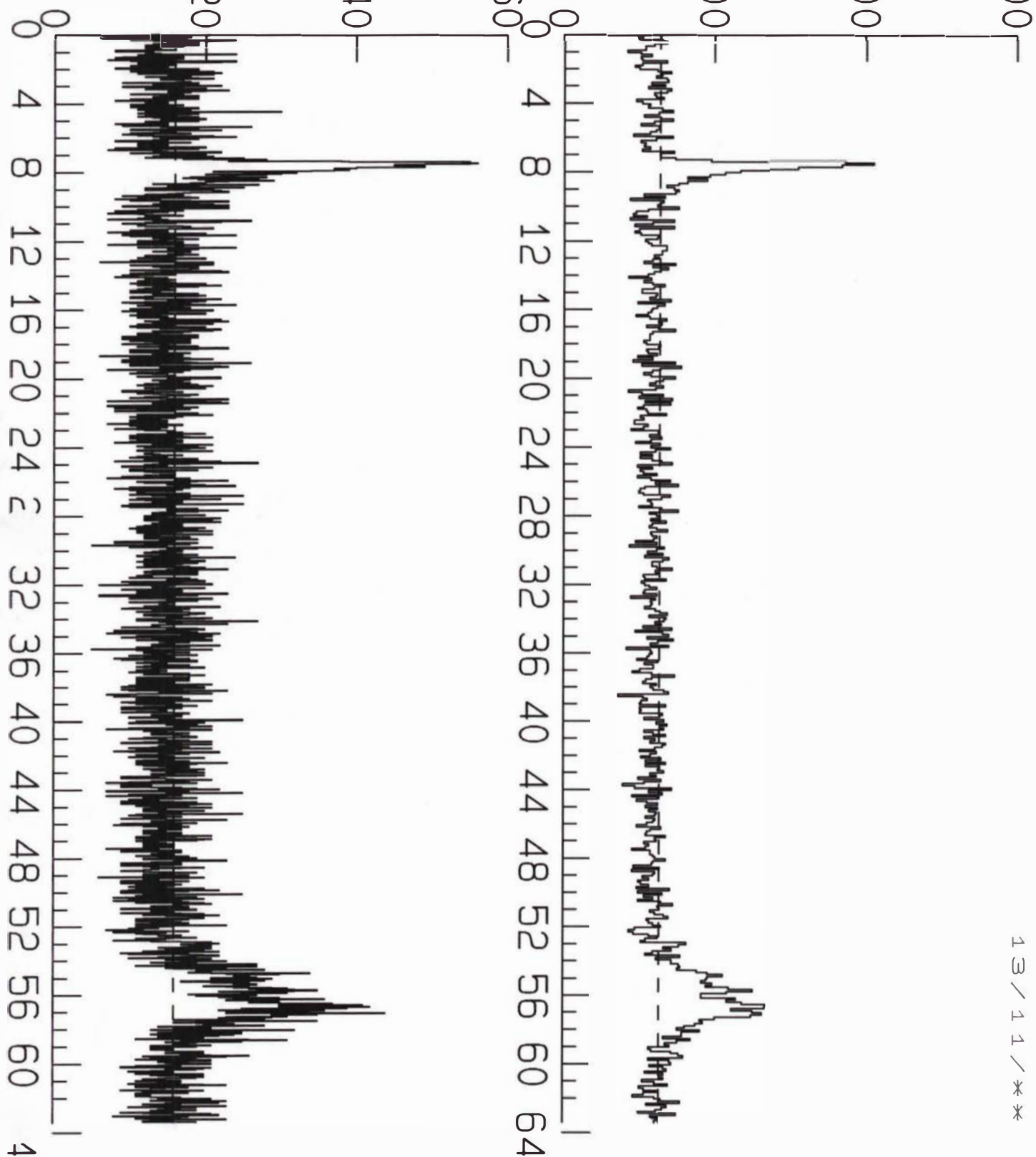
Ttrig= 414.115

21- 141 keV

13 / 11 / **

COUNTS/0.031 S

COUNTS/0.125 S



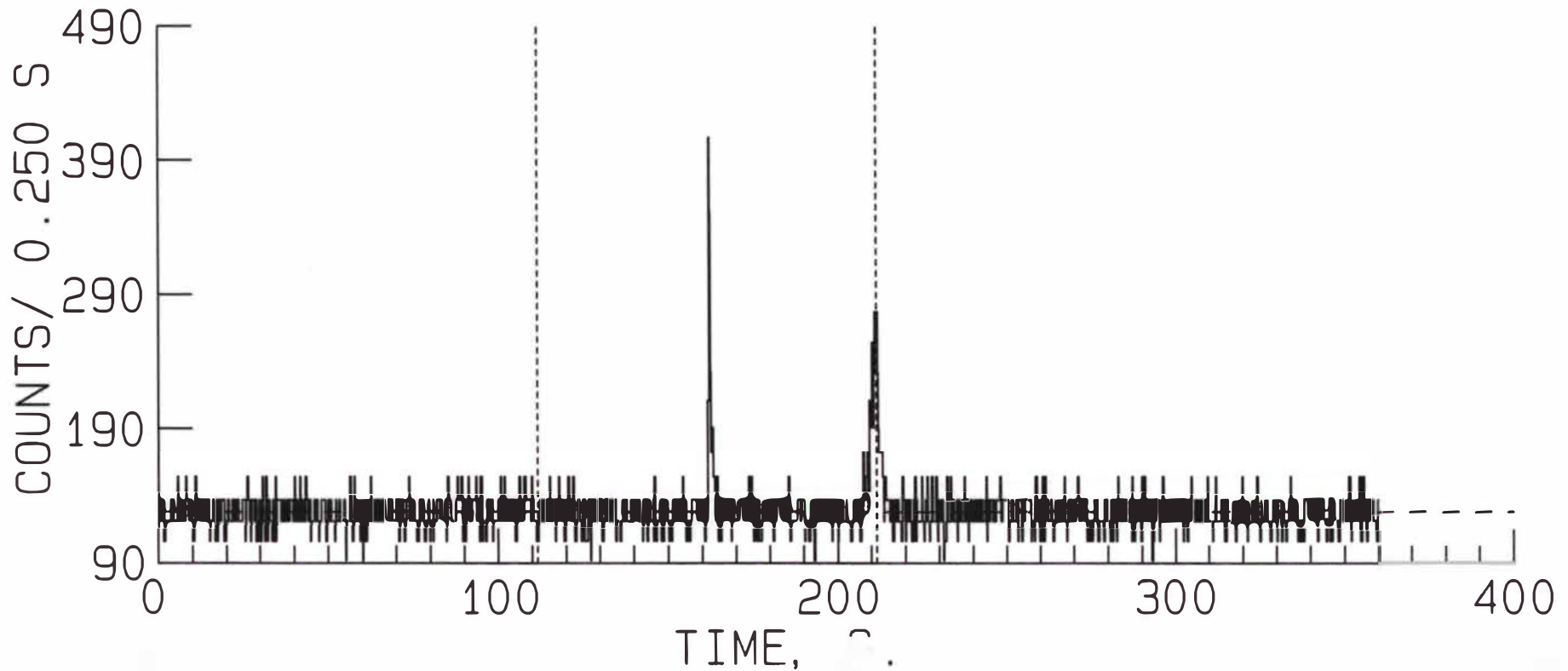
ULYSSES RT

13 / 11 / 97

12/ 5/95 252.089 s

21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From cline@tgrs.gsfc.nasa.gov Wed May 17 07:07 PDT 1995
Date: Wed, 17 May 1995 07:07:21 -0700
Mime-Version: 1.0
To: KHURLEY@sunspot.ssl.berkeley.edu
From: cline@tgrs.gsfc.nasa.gov (T L Cline)
Subject: May 12 event

KEVIN:

Preliminary report from Paul Butterworth:

It's a double peak event. The first peak is about 1 second in duration. Then there's nothing for 46 seconds, followed by the second peak. The second peak lasts about 5 seconds, with some structure. It's harder than the first one - with about the same total counts 10-50keV, but maybe 10x more 200-750keV.

and it was the southward detector that triggered, giving TGRS a chance.

Sorry, we don't have more than that yet. I'll try to get a T-zero as soon as Paul returns.

TLC

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

इसरो उपग्रह केन्द्र

अन्तरिक्ष विभाग

भारत सरकार

हवाई पत्तन मार्ग, विमानपुर गक पर,

बैंगलूर-560 017, भारत

तार: 'उपग्रह' टेलिक्स : 0845-2325 और 2769

दूरभाष : 566251



Dr Kevin Hurley
Univ. of California
Space Science Lab,
Berkeley, USA

ISRO SATELLITE CENTRE

DEPARTMENT OF SPACE

GOVERNMENT OF INDIA

AIRPORT ROAD, VIMANAPURA P.O.,

BANGALORE-560 017. INDIA

Telegram : UPAGRAH Telex : 0845-2325 & 2769

Telephone : 5 6 6 2 5 1

15 June 95

Dear Kevin,

1. I am sending the temporal profile of an event detected by SROSS-C2 on 12 May 1995. Kindly let me know whether Ulysses/BATSE/WIND has detected this event.

2. Is it possible for you to send me a list of Ulysses-detected events during 1995. If possible let me have their times and their profiles. I wish to check each one of these events in our data bank.

3. I wish to receive, if possible, good quality temporal profiles of Ulysses events detected on 30 Sep 1994, 26 Nov 1994, 3 May 1995 and if Ulysses confirms, the 12 May 1995.

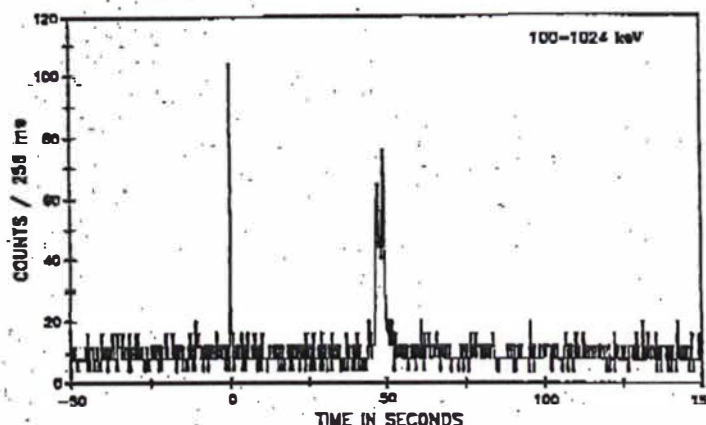
I would like to seek your permission to publish one or two of the above profiles in one of our future publications from SROSS-C2.

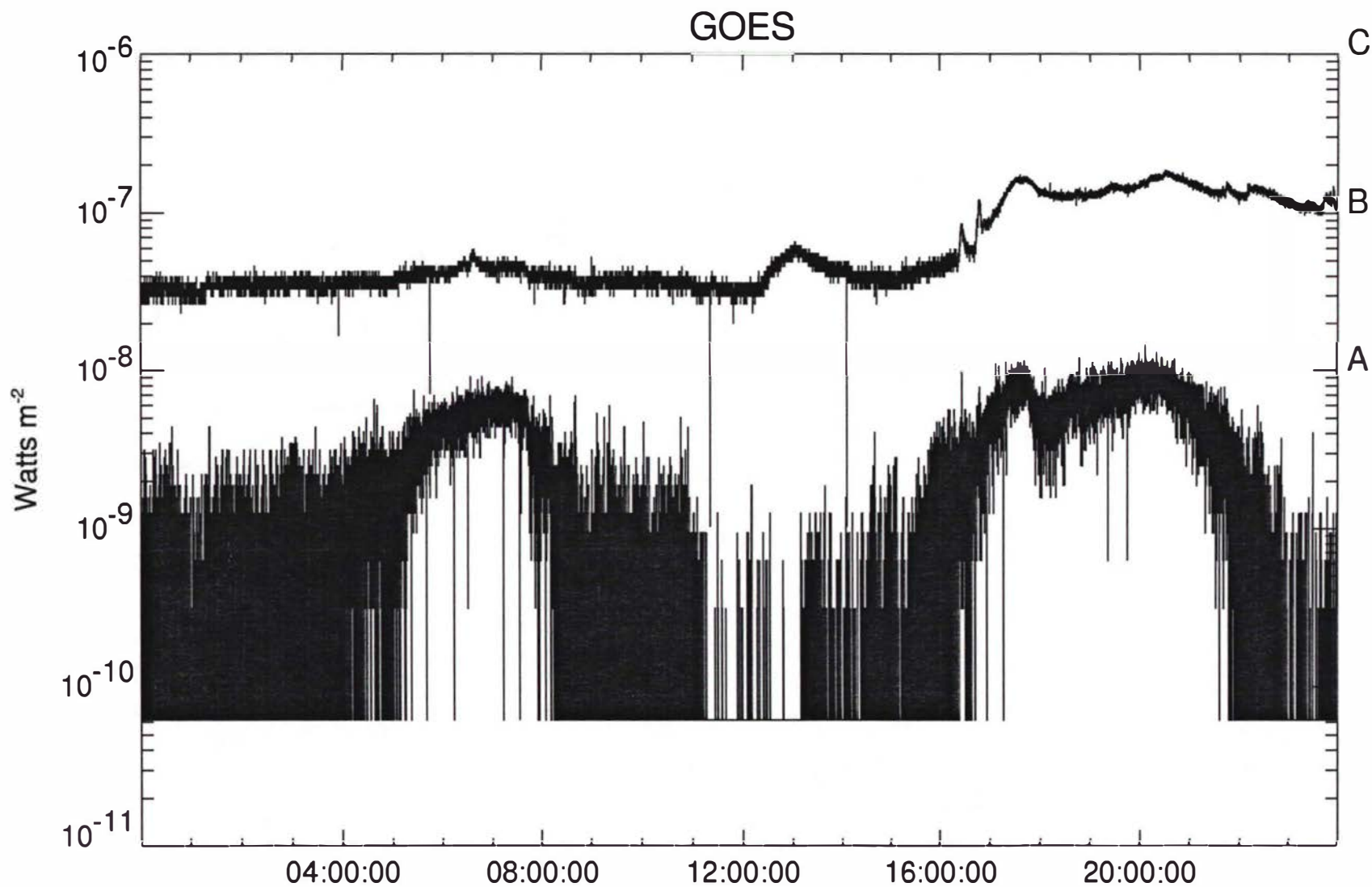
Thanking you in advance,

sincerely yours,

Krishnan
(Krishnan Marar)

12 MAY 95 00:16:48.280 UT ORBIT 5622





Data Start: 95/05/12, 0000:01

Plot created: 95/05/14, 0528

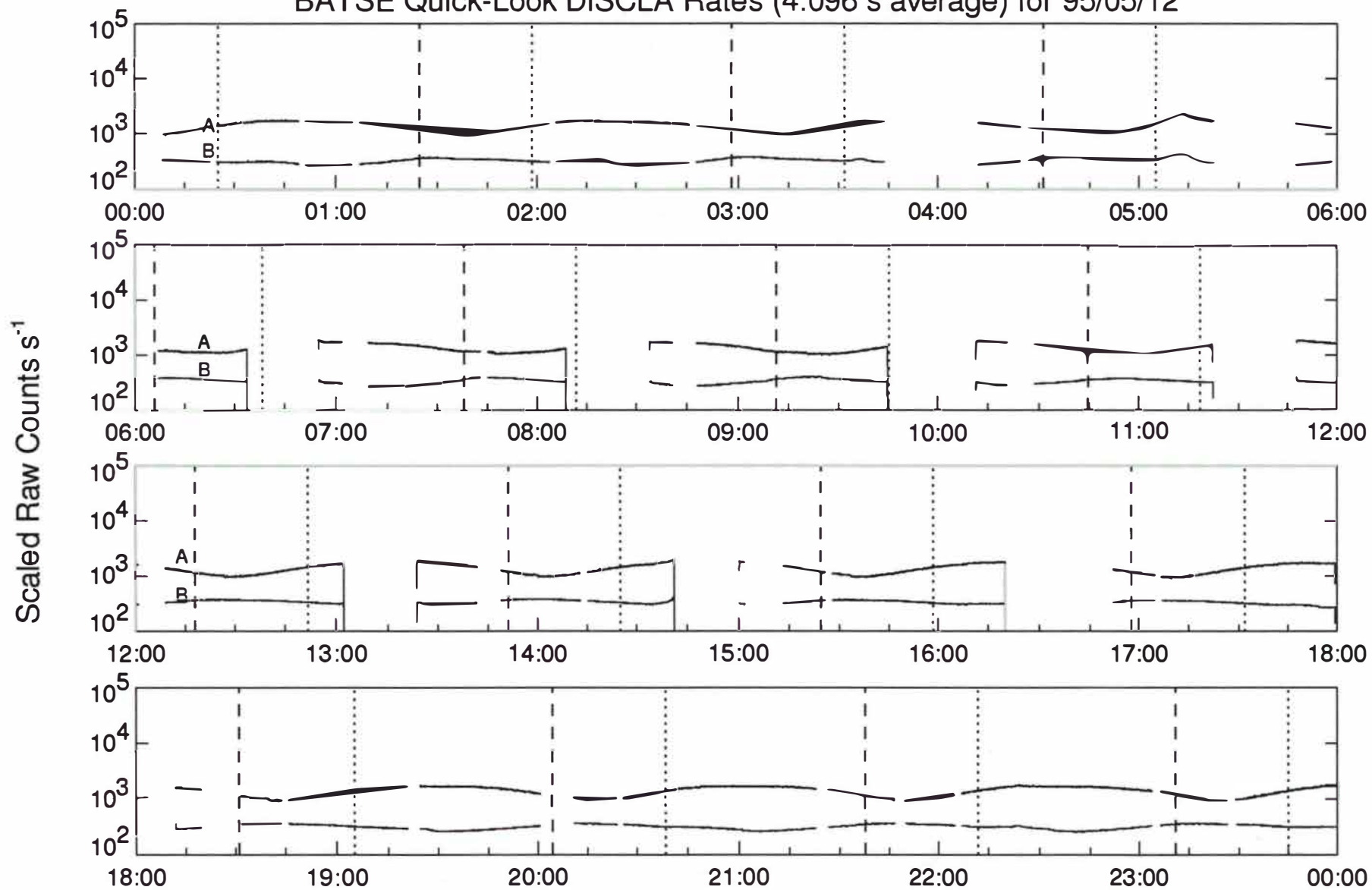
Channel 1 (1.0 - 8.0 Angstroms)

Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms)

Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/12

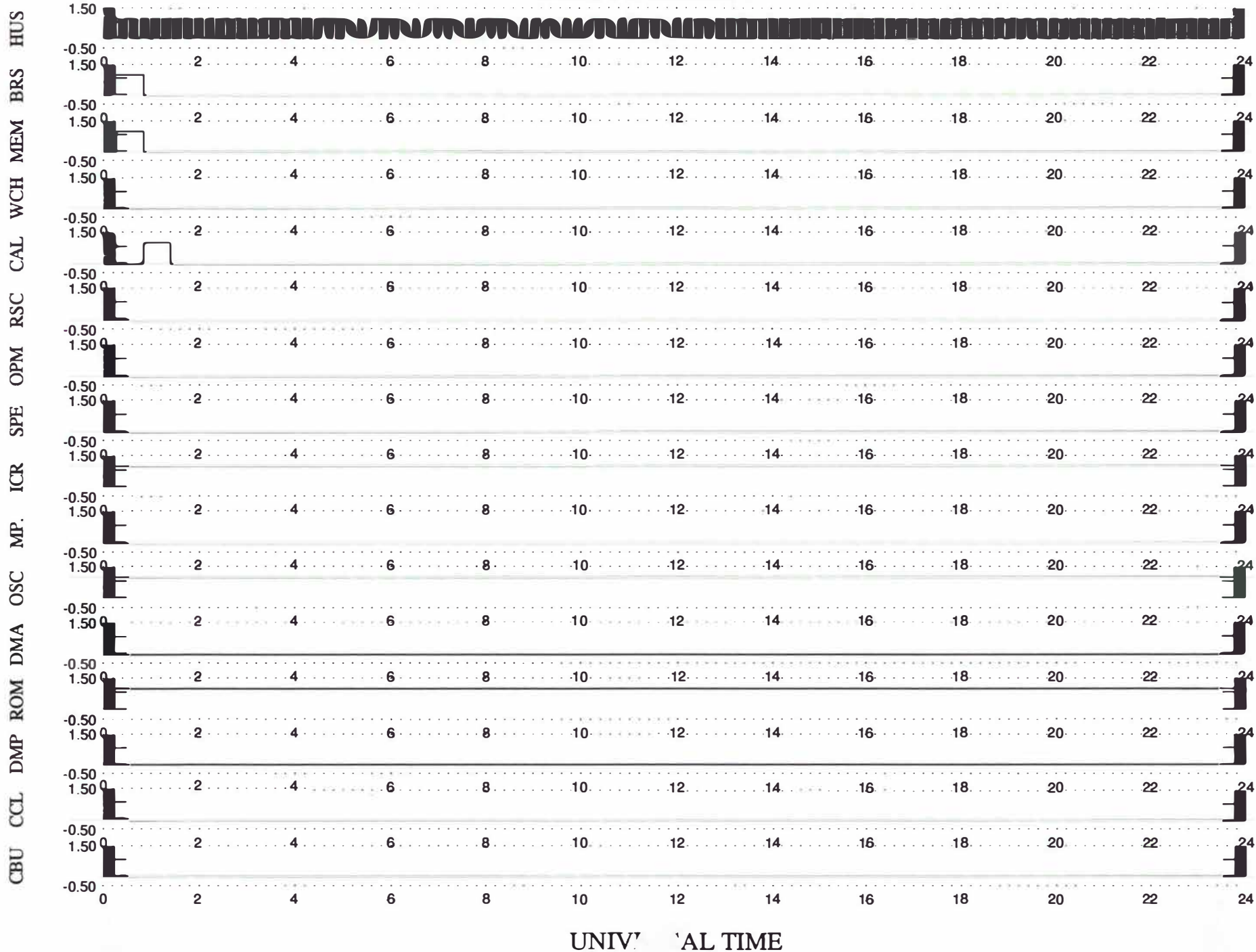


Current Time: 95/05/14, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

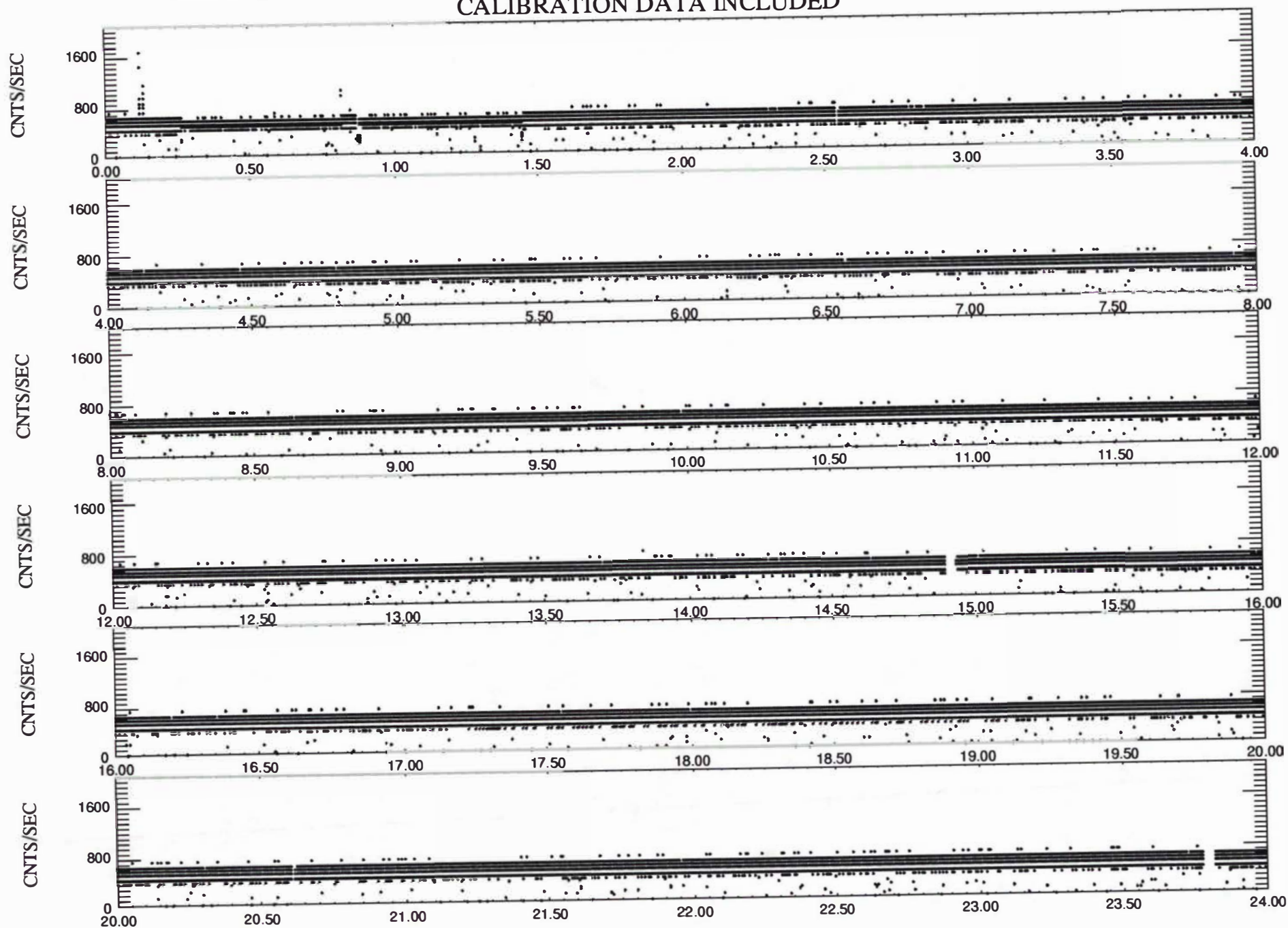
* Solar Burst Trigger
 + Solar Flare

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 132, year 1995 to day 132, year 1995
CALIBRATION DATA INCLUDED

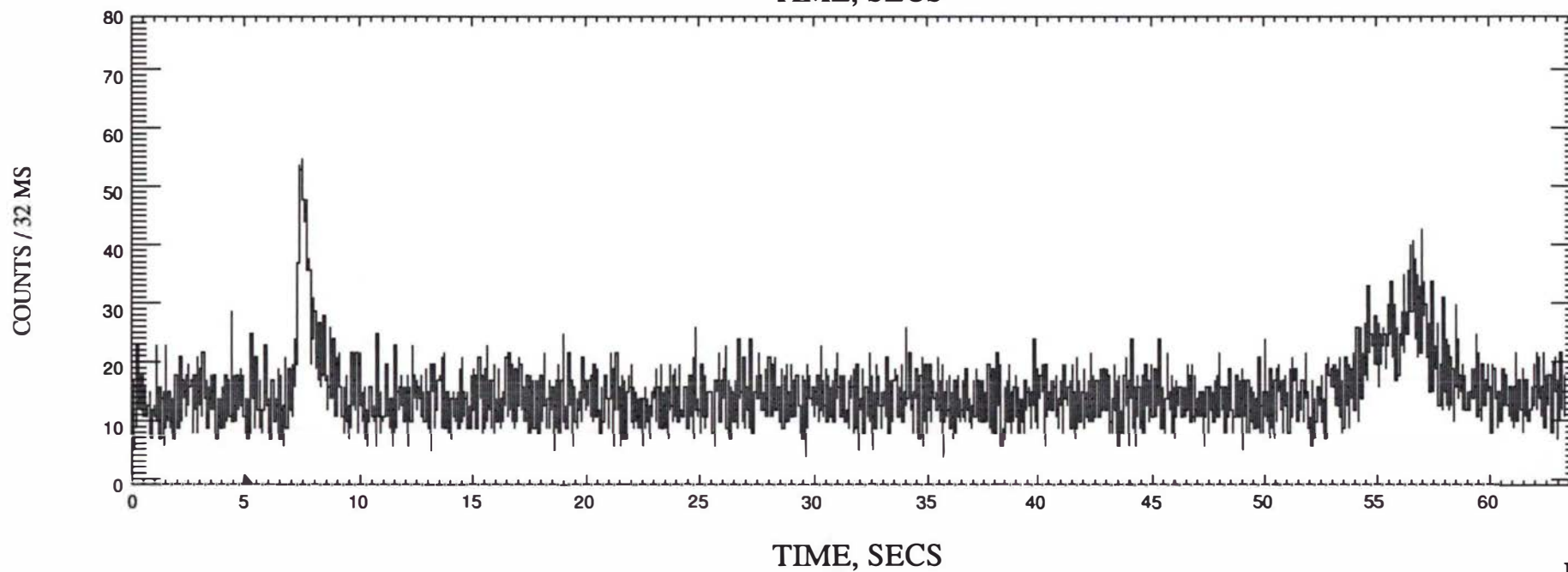
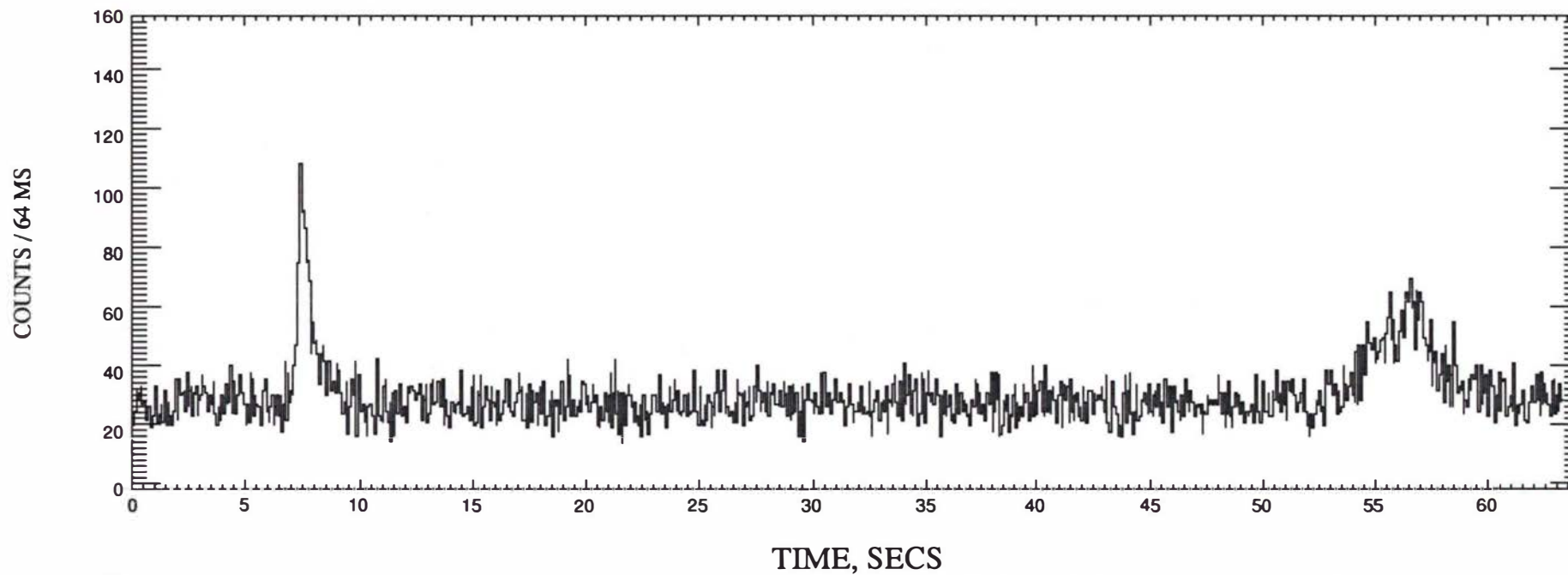
11/21/95



UNIVERSAL TIME

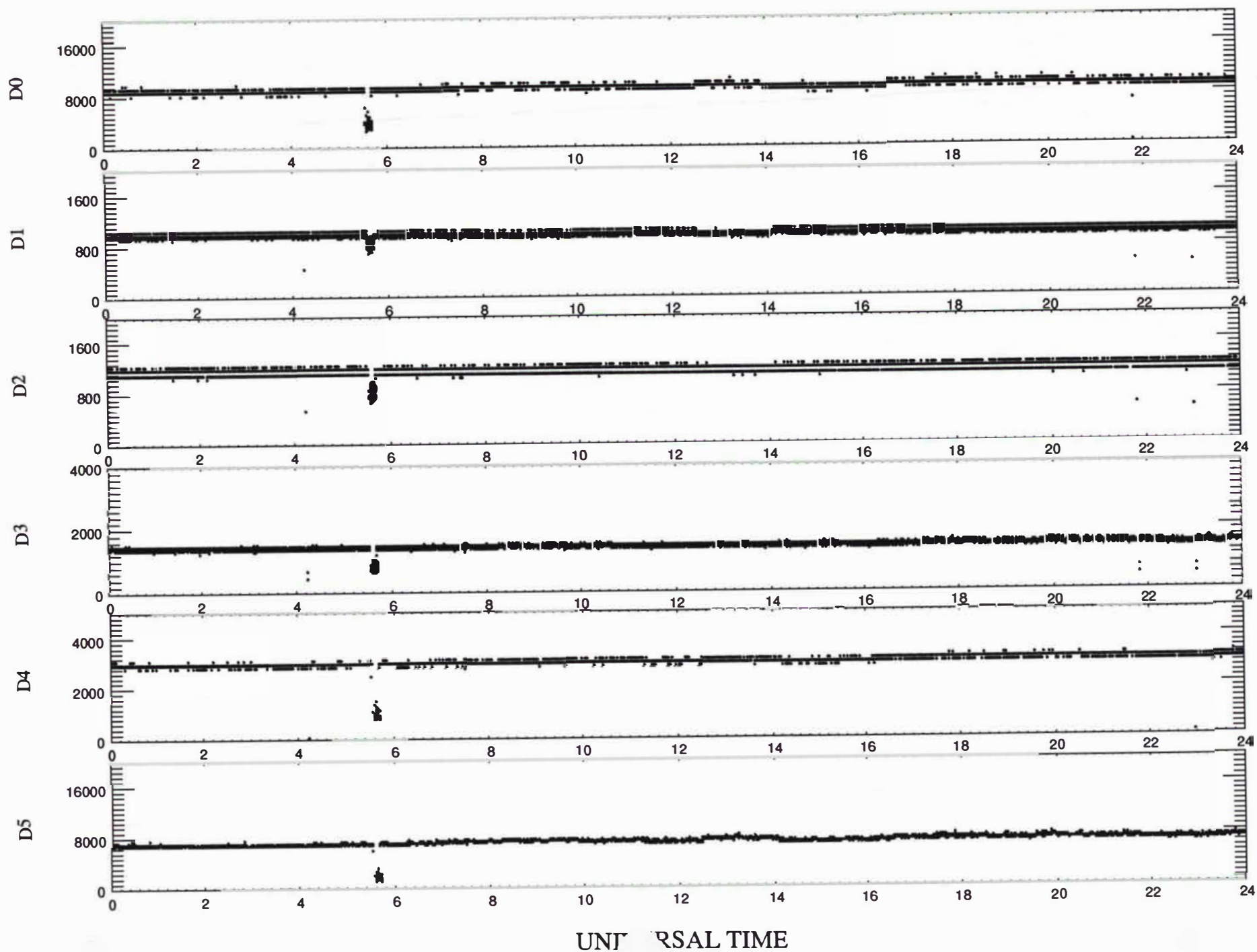
HUS 2A TRIGGERED DATA EDR day 132, year 1995
Burst Counter 2 at UT= 0.115022633870 h= 414.081 s 00:06:54.081

11/21/95



HUS 2B COUNTS / SEC QEDR day 132, year 1995 to day 132, year 1995

5/17/95



From SAHI@ssl.msfc.nasa.gov Mon May 15 10:20 PDT 1995
Date: Mon, 15 May 1995 12:20:27 -0500 (CDT)
From: SAHI@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3571

BATSEARCH PROGRAM

RT

BATSE BURST # 3571
EVENT OF 1995 MAY 13 DAY OF YEAR=133
EVENT CROSSING TIME AT BATSE : 81703. S. OR 22:41:43.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 272.000 -73.000
BATSE PEAK COUNTING RATE: 30000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 13/ 5/ 95 IS:
RA= 3.665 DEC= 35.276 DIST= 2.070 AU
BATSE-ULYSSES DISTANCE = 309601012. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 56.00 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 577.52 SECS.
CROSSING TIME AT ULYSSES IS 82281. S. OR 22:51:20 +/- 207.41 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 13/ 5/ 95 IS:
RA= 147.509 DEC= 15.004 DIST= 1.254 AU
MARS-BATSE DISTANCE = 187573776. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 65.95 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 254.96 SECS.
CROSSING TIME AT MARS IS 81958. S. OR 22:45:57 +/- 103.07 SECONDS

BATSE BURST TRIGGER

NO.: 3571

TIME: TJD=9850 SECONDS=81703

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=100.0 AZIMUTH=147.1 ERROR= DEGREES

COMMENTS:

BURST. SINGLE PULSE WITH SUBSTRUCTURE, DUR.~35 SECS. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3571	950513	9850	81703	30000	272	-73	35

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

Dear Kevin,

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

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

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

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

From cline@tgrs.gsfc.nasa.gov Thu May 18 14:10 PDT 1995
Date: Thu, 18 May 1995 14:10:37 -0700
Mime-Version: 1.0
To: KHURLEY@sunspot.ssl.berkeley.edu
From: cline@tgrs.gsfc.nasa.gov (T L Cline)
Subject: May 13

KEVIN:

Paul Butterworth says, quote:

950513 burst at 22:41, Konus (reliable as ever!) saw it
It looks superficially a little like the last one Kevin queried -
southward-detector, two main peaks, with the second several times
stronger than the first. The first peak caused a trigger at 22:41:46.917.
It lasted about 2s. Then there was 20s of relative quiescence, followed by
the main peak for 4s.

T

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

Helio corr removed
Date: Nov 14 '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? *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*

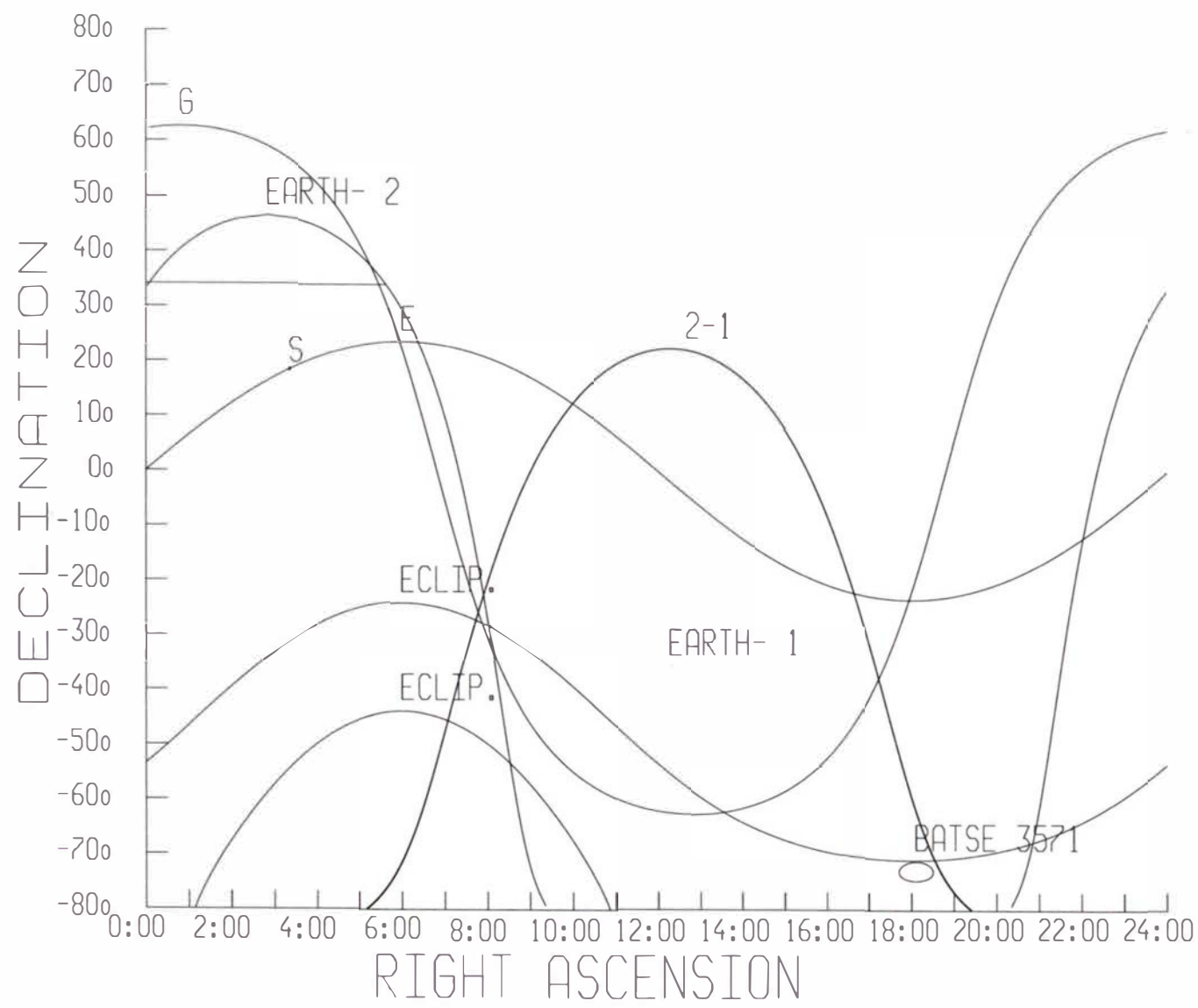
3. PVO Data

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

EVENT OF MAY 13, 1995 22:51

24/08/2010

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



N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

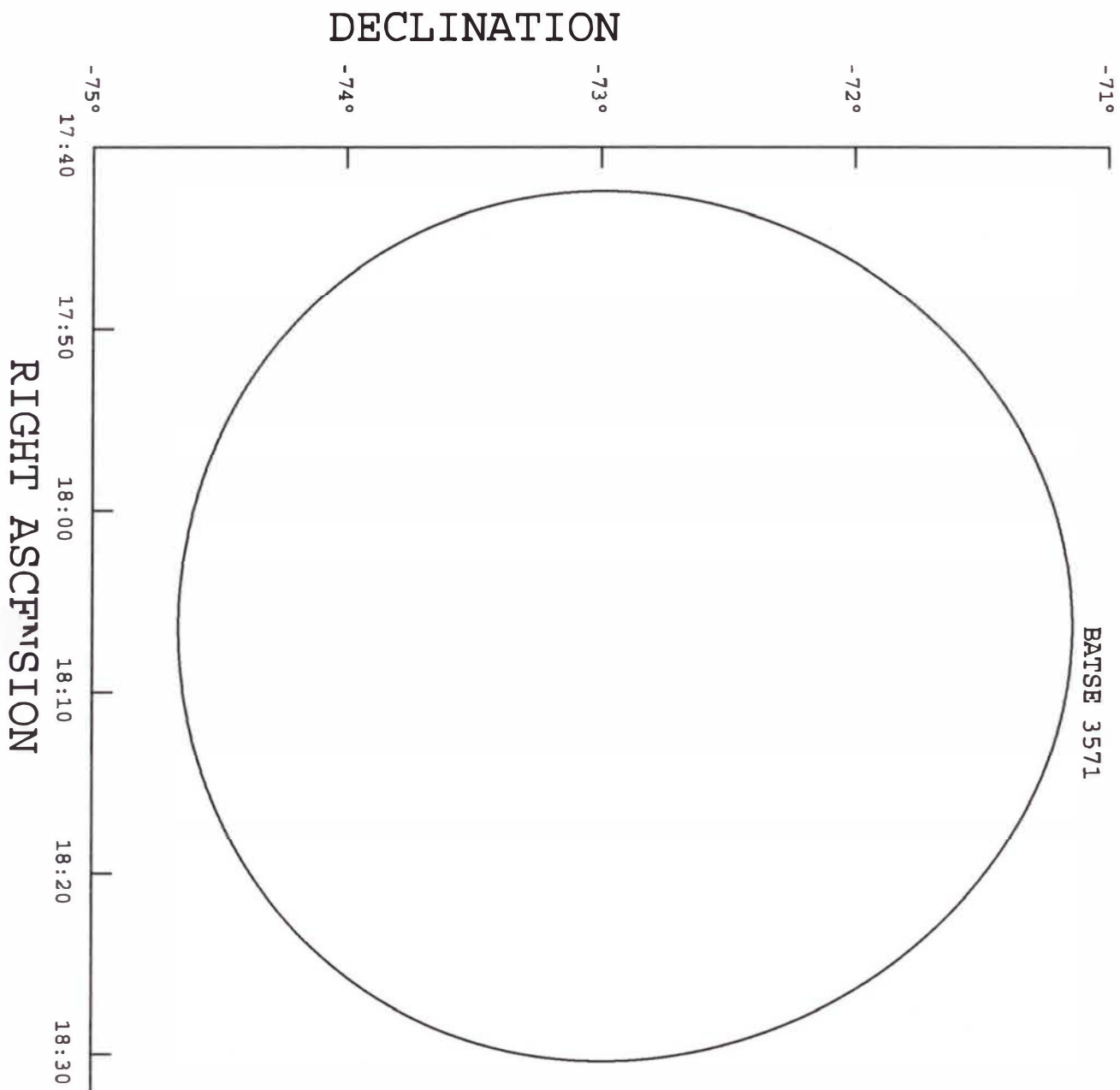
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF MAY 13, 1995 22:51

14/11/97



ULYSSES

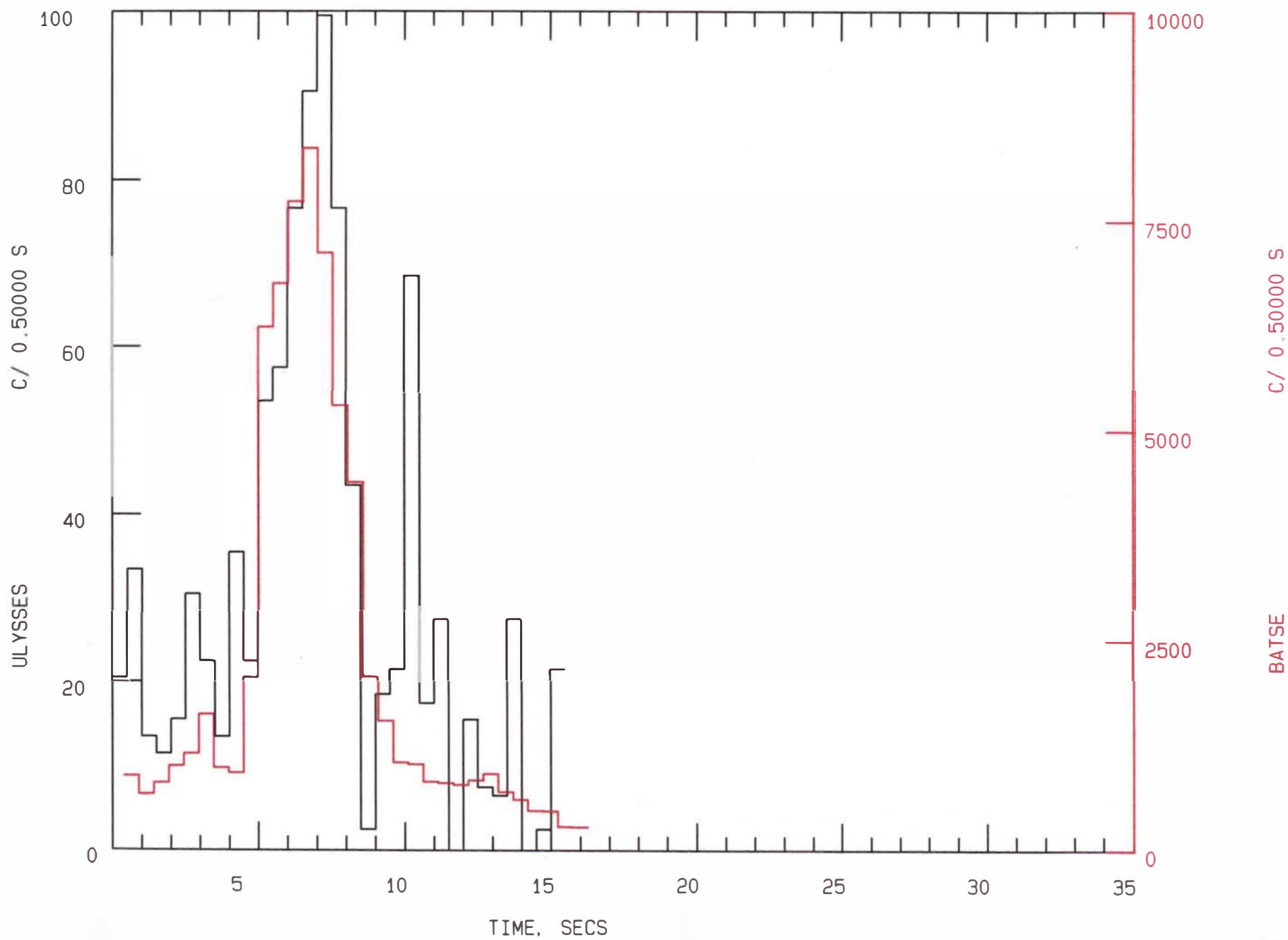
-BATSE

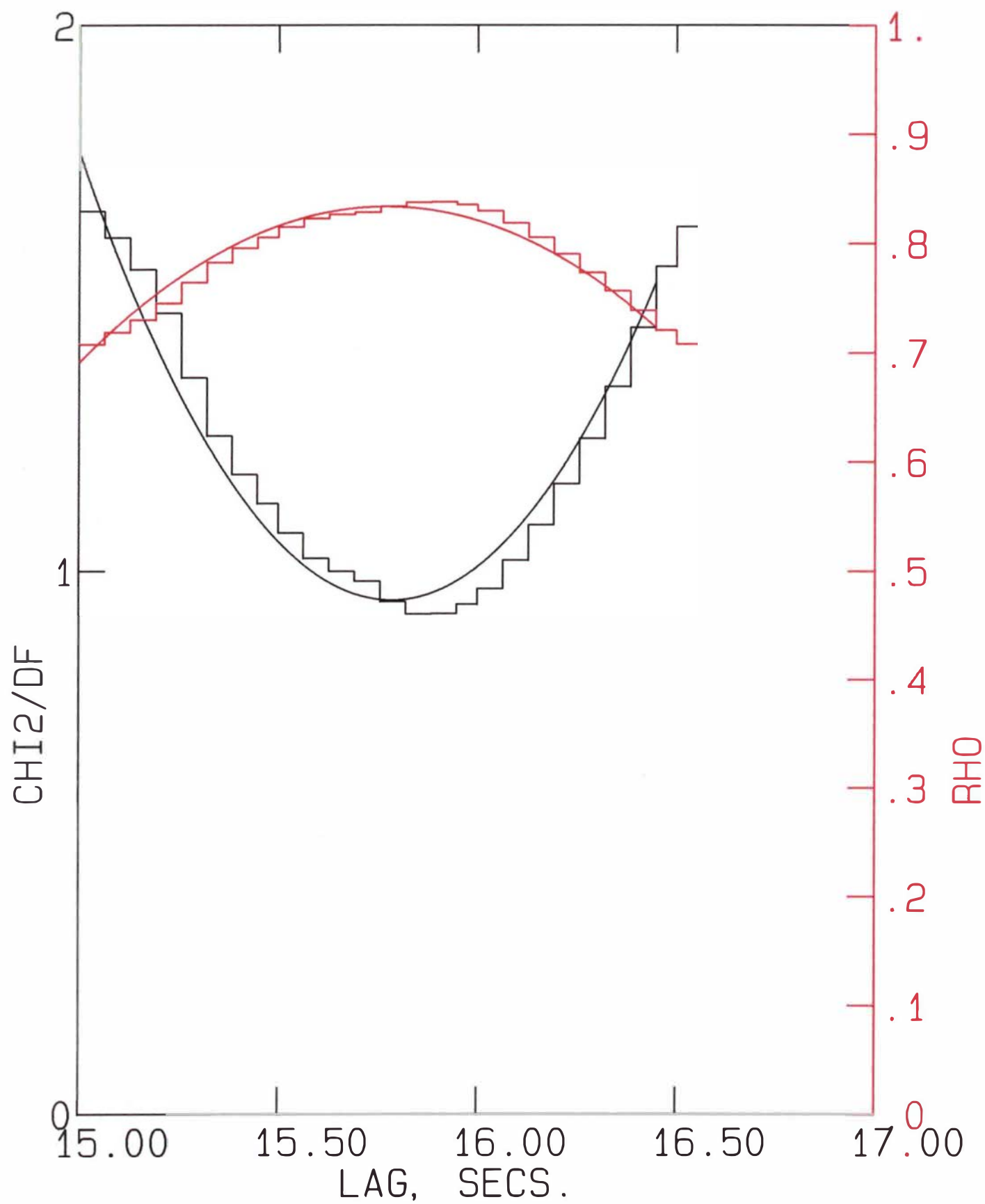
CORRELATION

13/05/95

82275.608

14/11/97





ULYSSES

13/05/95

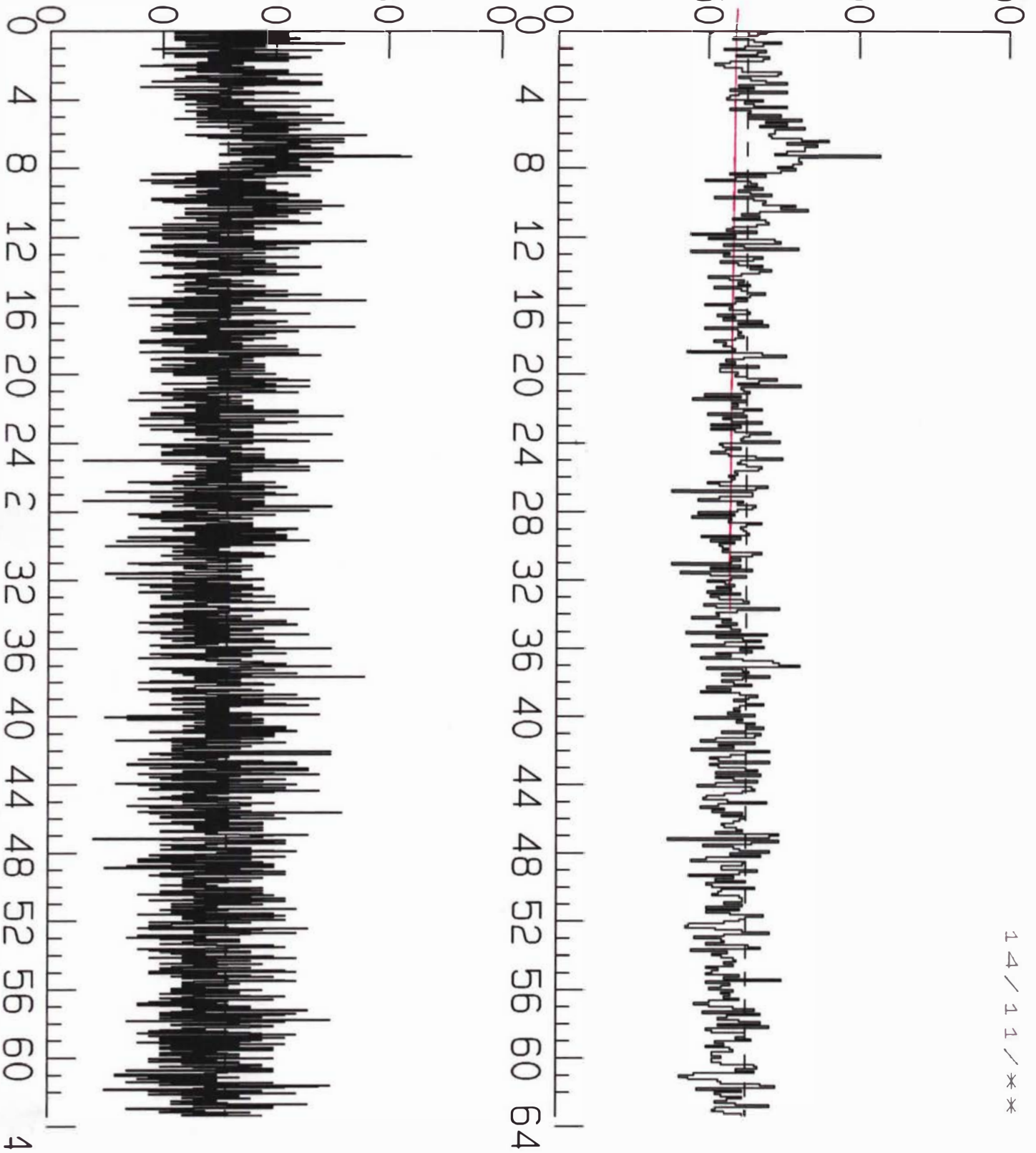
Ttrig=82275.608

21- 141 keV

COUNTS/0.031 S

COUNTS/0.125 S

14/11**



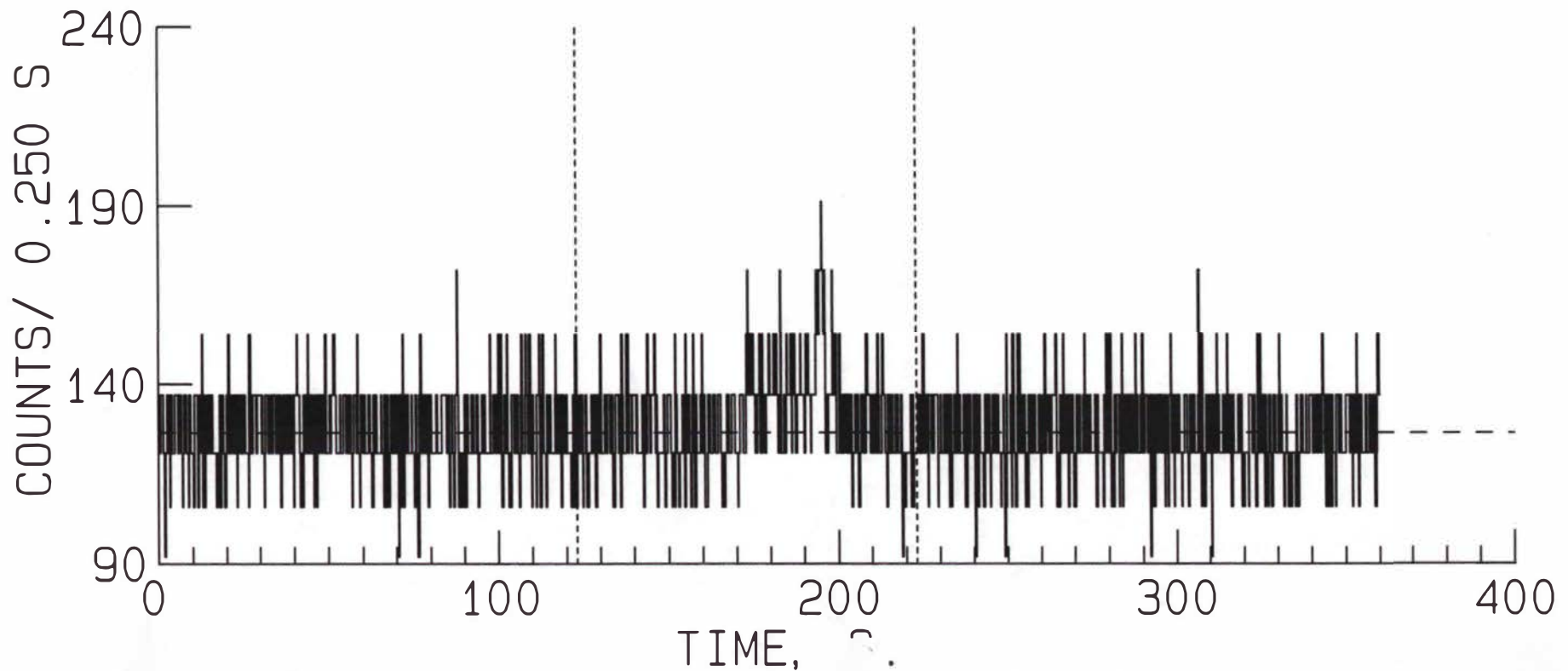
ULYSSES RT

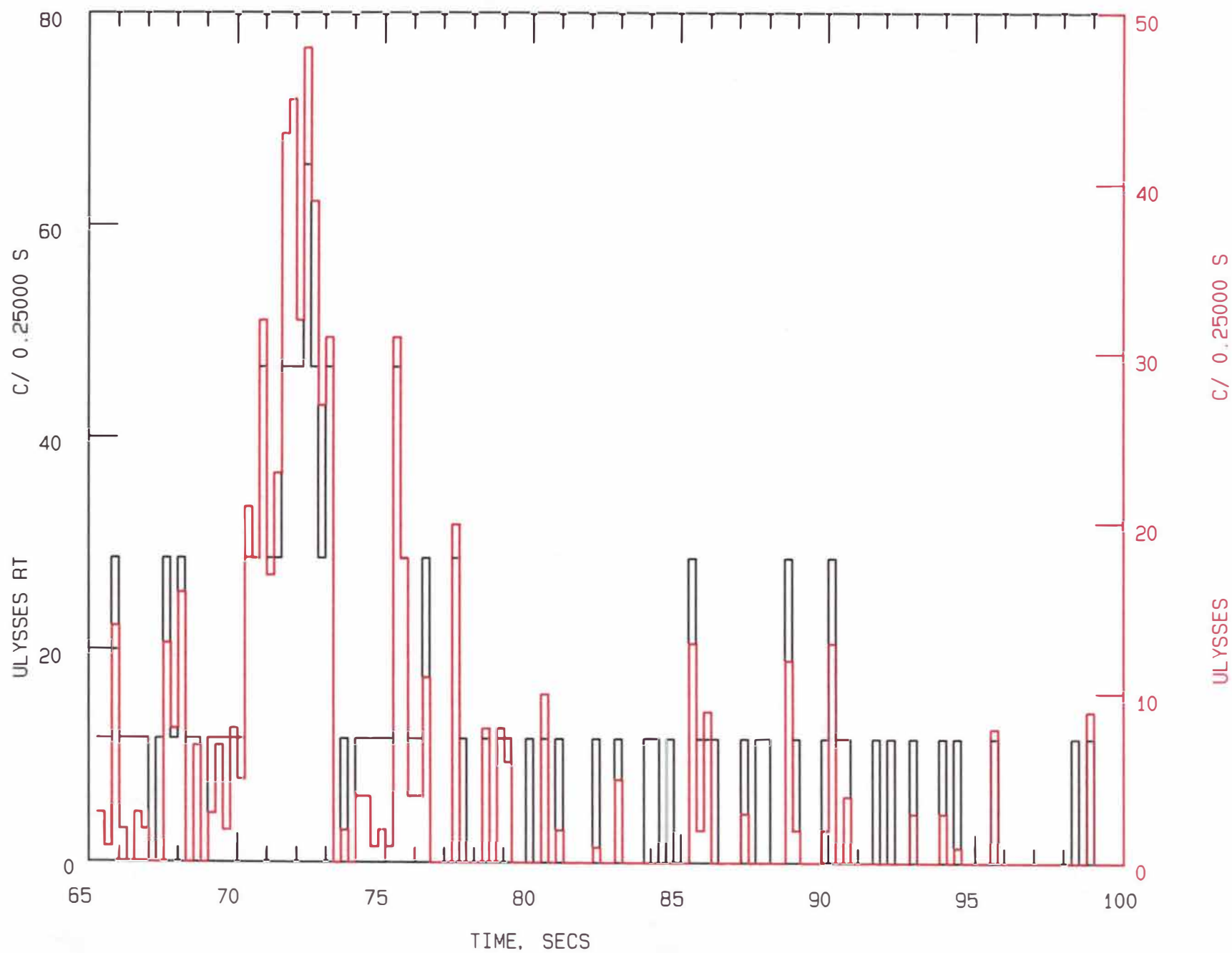
14/11/97

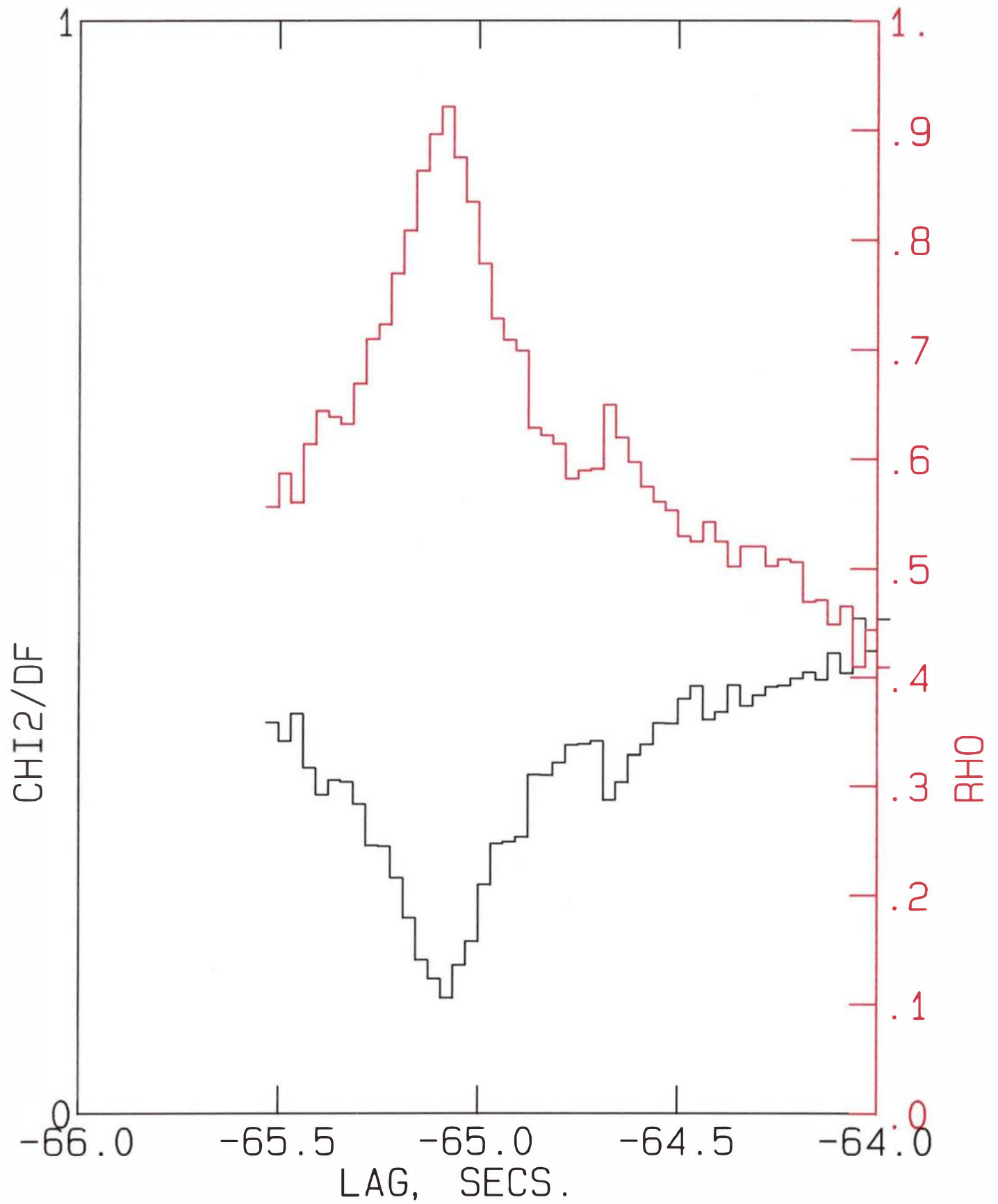
13/ 5/95 82080.089 s

21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



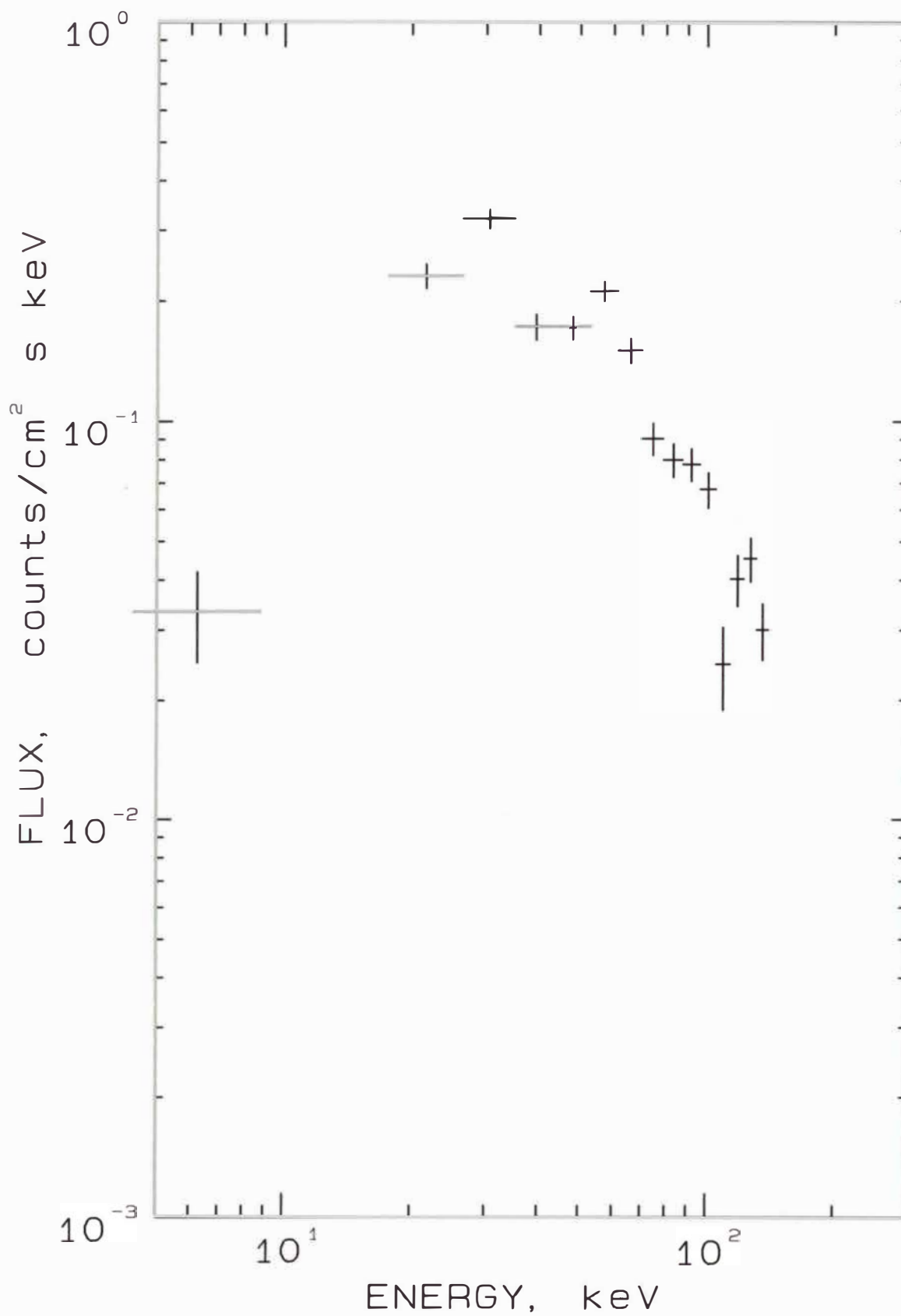




ULYSSES 13/05/95 82275.574

14/11/97

SPECTRUM INTEGRATED OVER 21.1 SECONDS, INTERVALS 2 TO 20



ULYSSES 13/05/95 82275.574 BURST SPECTRAL COUNT RATES

4-17 keV

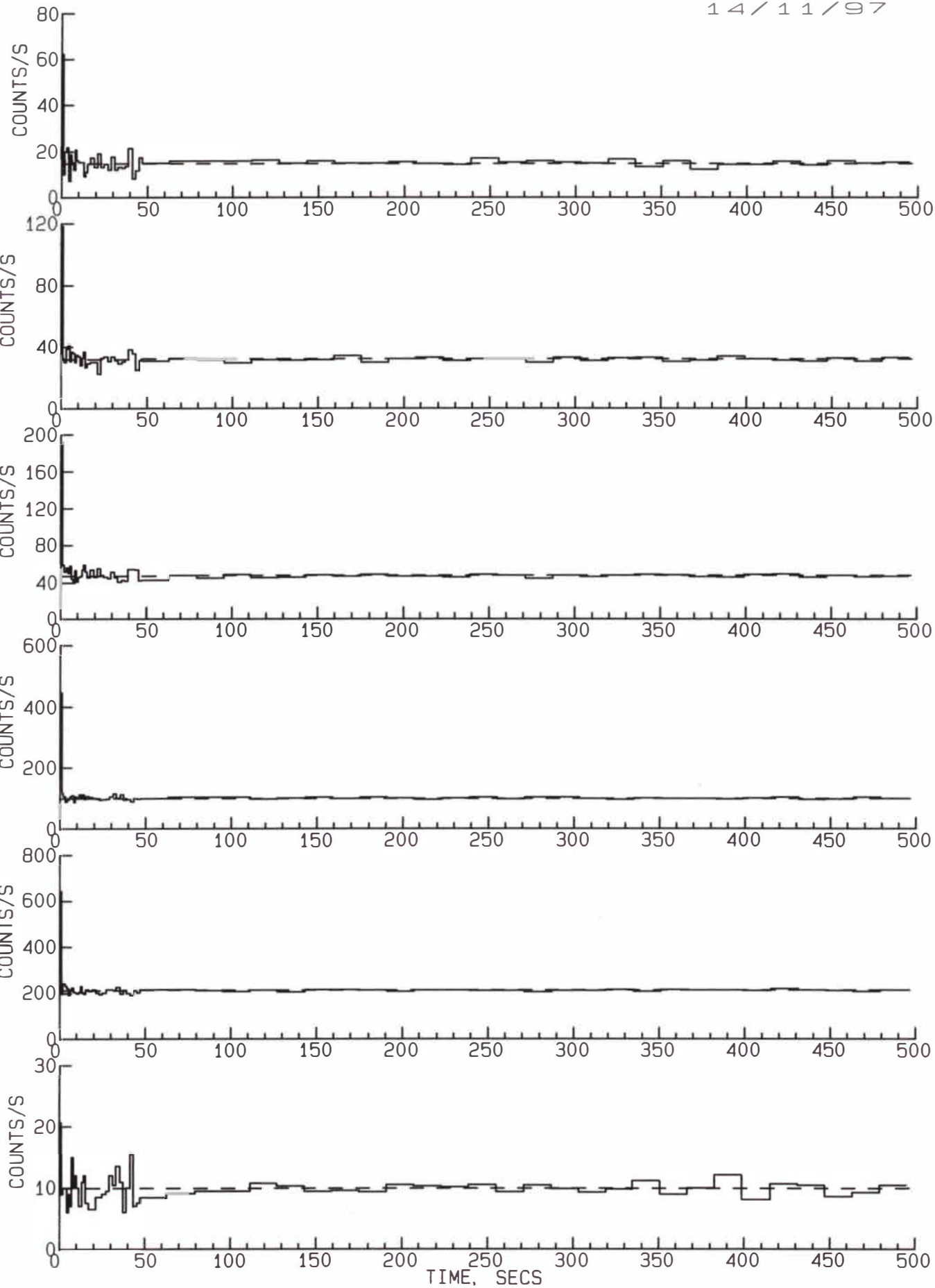
17-44 keV

44-70 keV

70-97 keV

97-123 keV

123-141 keV



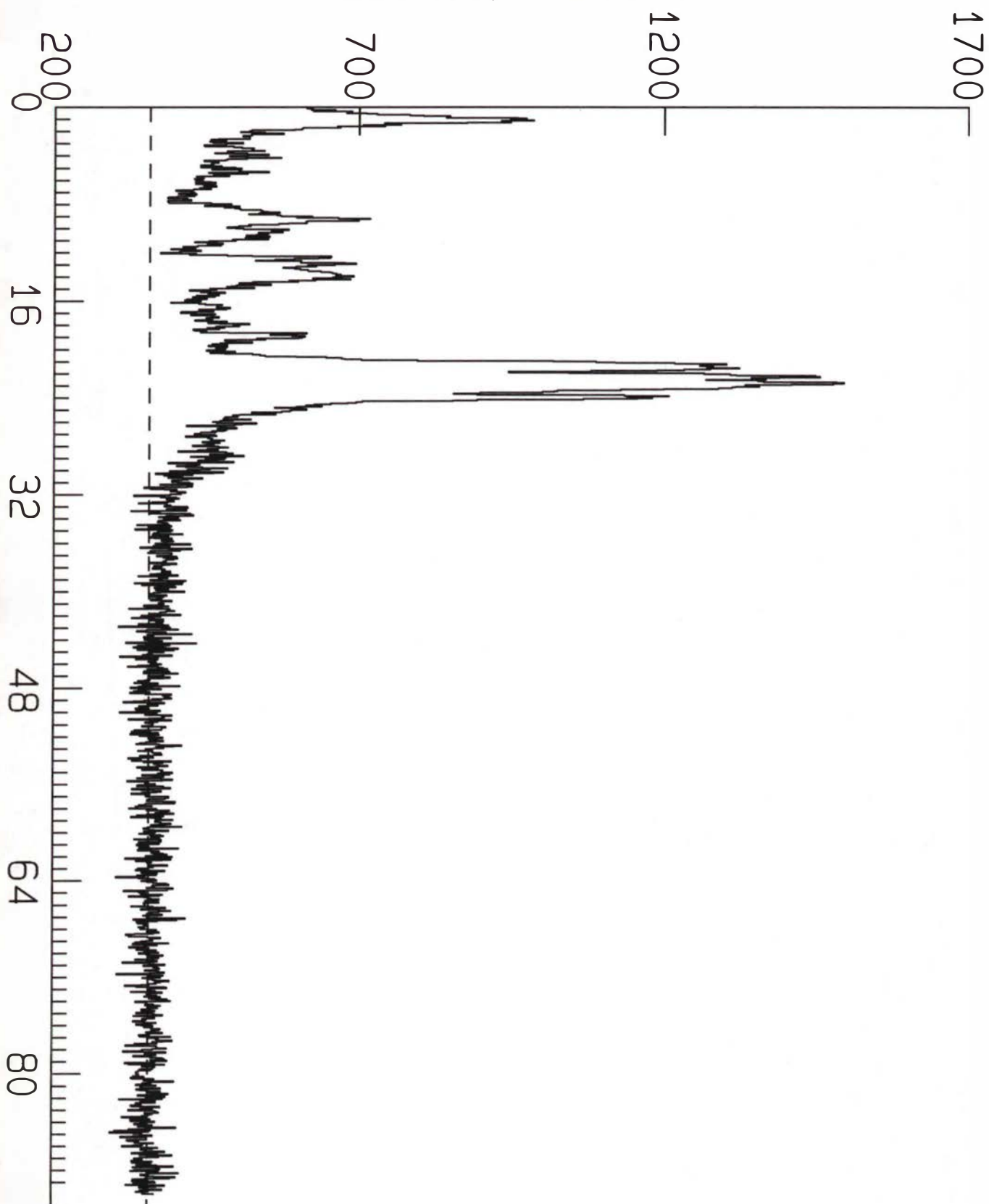
BATSE

13/05/95

81703.602

25- 100 keV

COUNTS/0.064 S



From SAHI@ssl.msfc.nasa.gov Mon May 15 10:09 PDT 1995
Date: Mon, 15 May 1995 12:09:35 -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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3570

TIME: TJD=9850 SECONDS=46157

TYPE: FLARE SOLAR FLARE TRIGGER SIGNAL:N

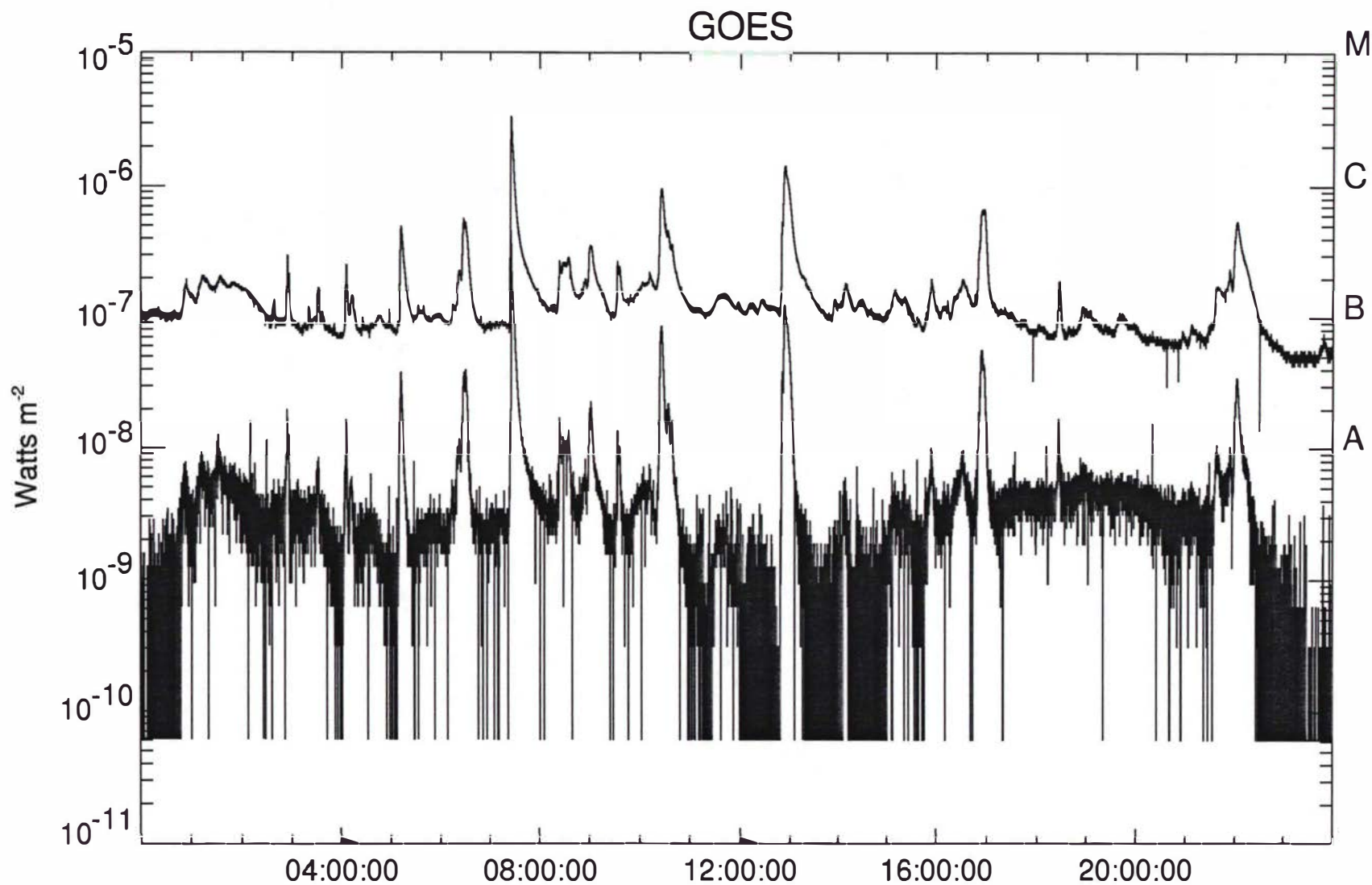
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=37.3 AZIMUTH=15.9 ERROR= DEGREES

COMMENTS:

GOES. C1.3, OPTICAL SF. SINGLE PULSE WITH SUBSTRUCTURE, DUR.~ 40 SECS.
NOT VISIBLE ABOVE 100 KEV.



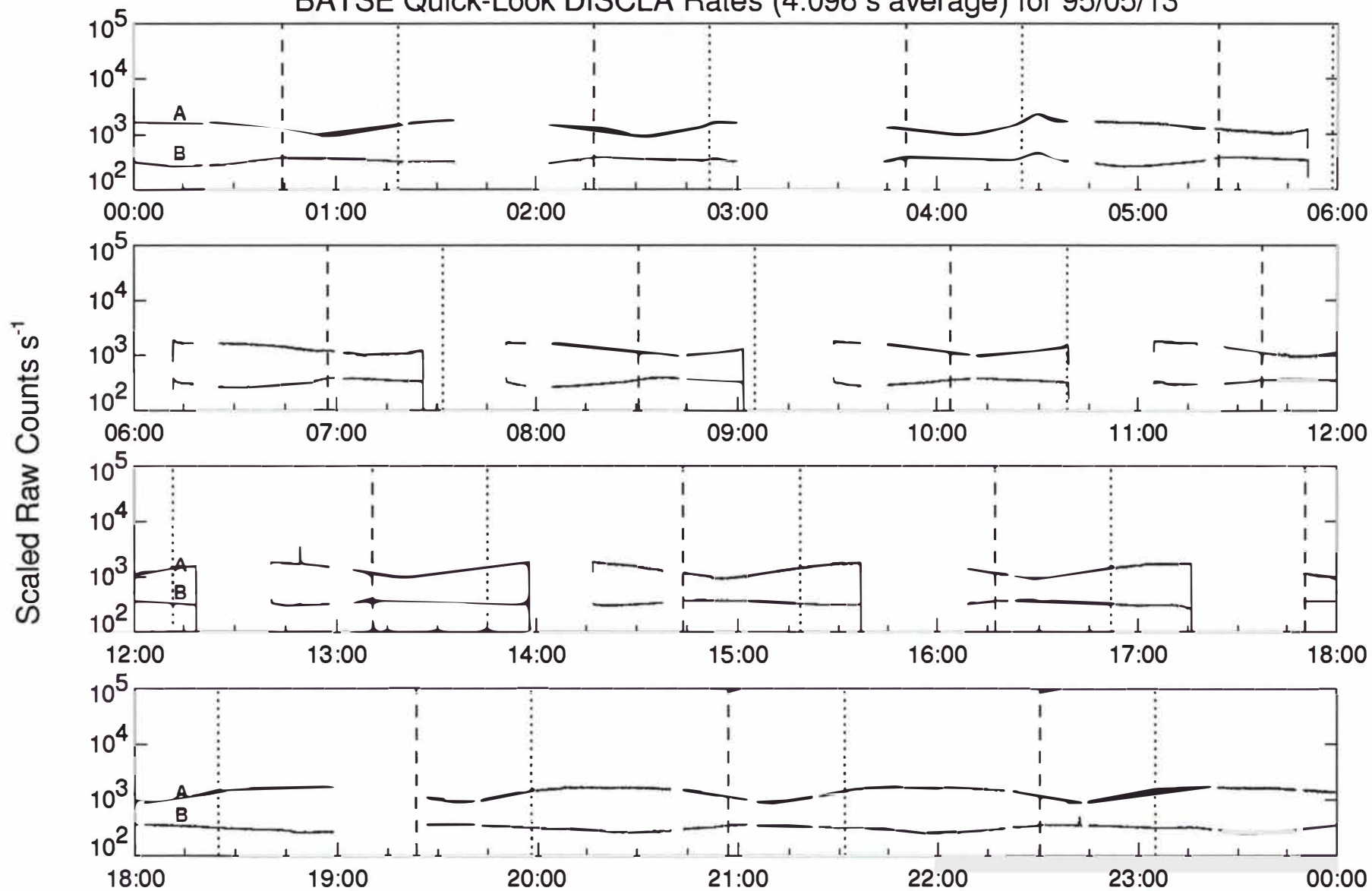
Data Start: 95/05/13, 0000:02

Plot created: 95/05/15, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/13



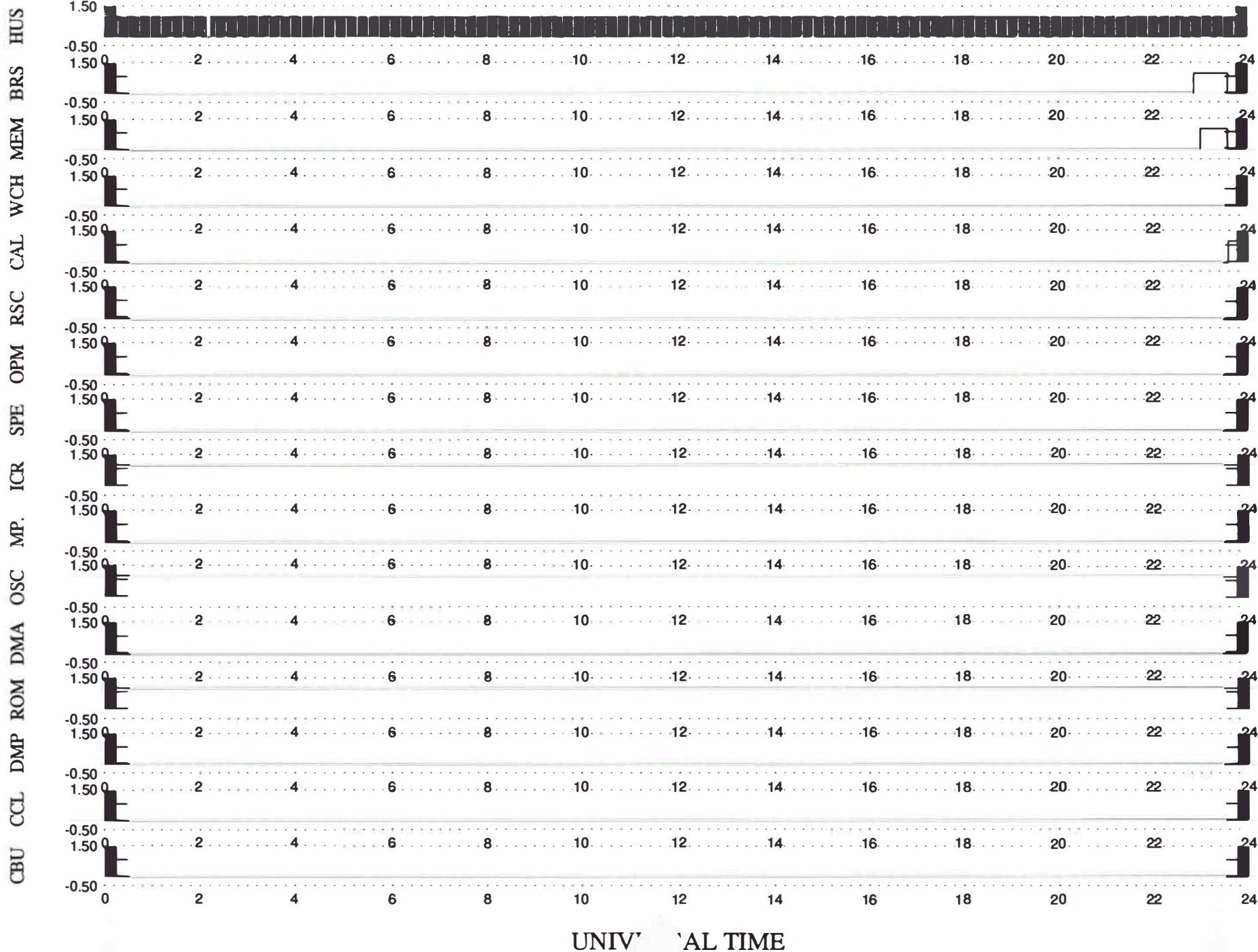
Current Time: 95/05/15, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

HUS MODES EDR day 133, year 1995 to day 133, year 1995
BURST NUMBER 3

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 133, year 1995 to day 133, year 1995
CALIBRATION DATA INCLUDED

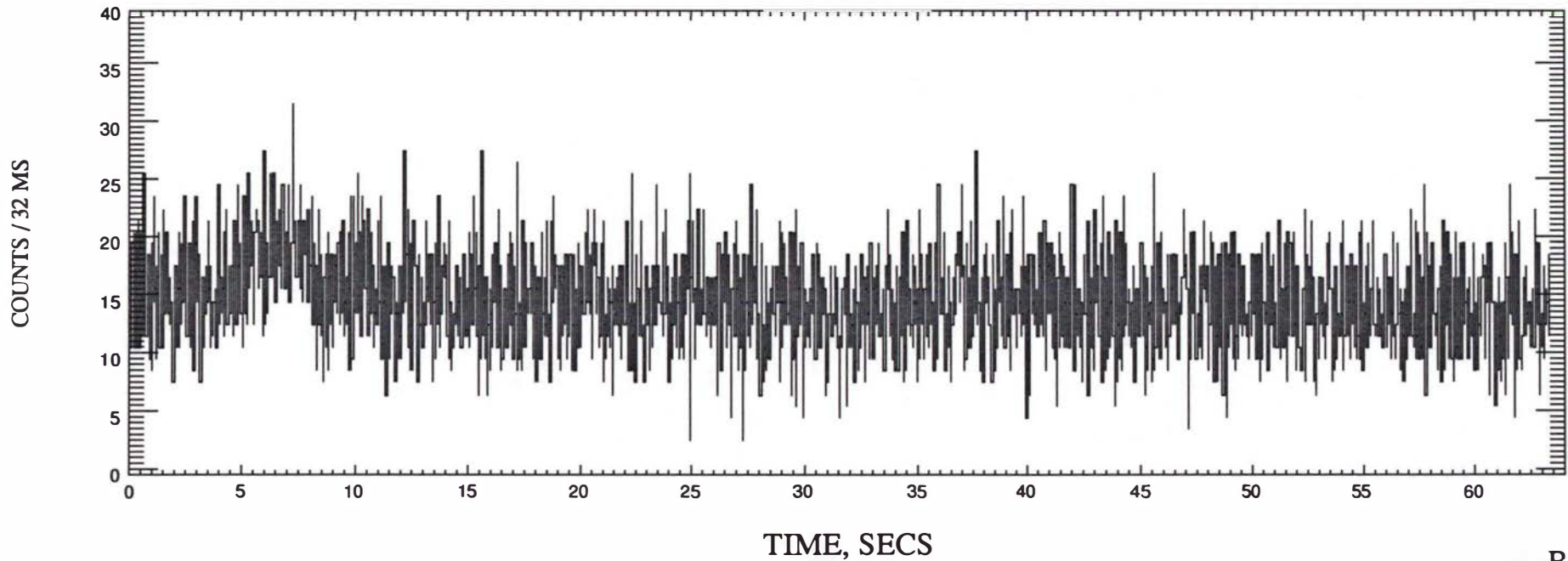
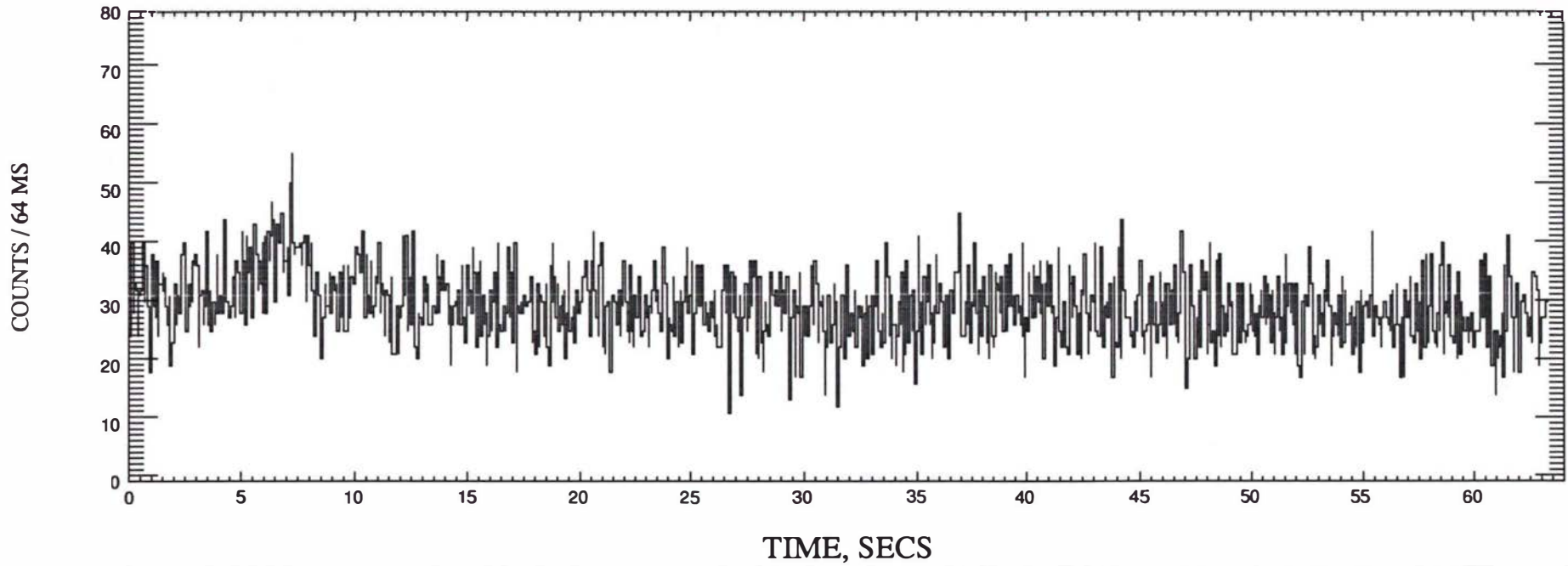
11/21/95



UNIV. TIME

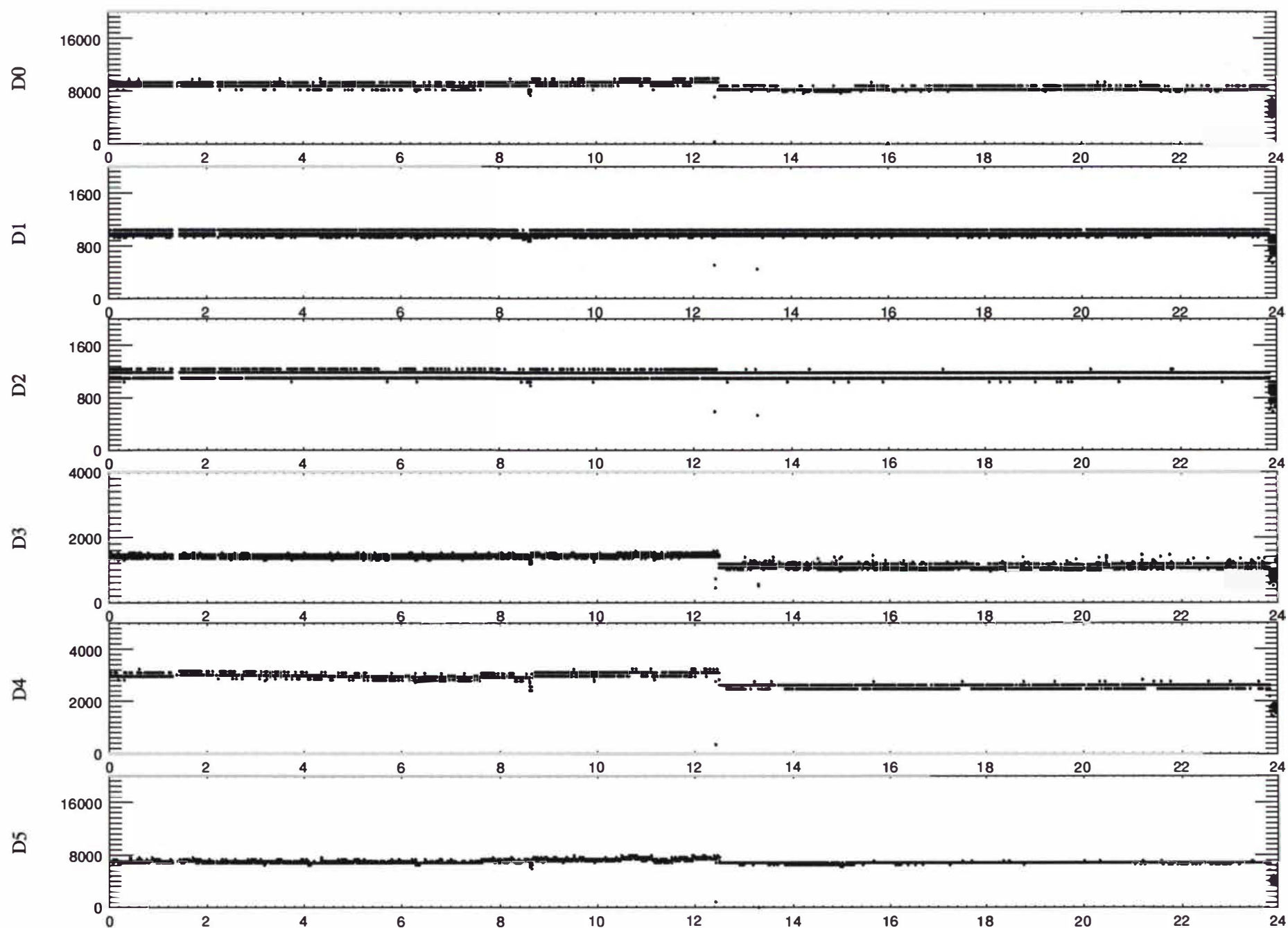
HUS 2A TRIGGERED DATA EDR day 133, year 1995
Burst Counter 3 at UT=22.854326121012 h=82275.574 s 22:51:15.574

11/21/95



HUS 2B COUNTS / SEC QEDR day 133, year 1995 to day 133, year 1995

5/17/95



UNIVERSAL TIME

From RICHARDSON@ssl.msfc.nasa.gov Tue May 16 11:35 PDT 1995
Date: Tue, 16 May 1995 13:34:42 -0500 (CDT)
From: RICHARDSON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3572

TIME: TJD=9851 SECONDS=5407

TYPE: FLARE SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=47.1 AZIMUTH=28.3 ERROR= DEGREES

COMMENTS:

SOLAR FLARE, GOES C2.4, OPT. SF. DURATION ~50 SEC. WEAKLY VISIBLE
ABOVE 50KEV.

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

From cline@lheavx.gsfc.nasa.gov Fri Feb 2 05:41 PST 1996
 Date: Fri, 2 Feb 1996 05:41:51 -0800
 Mime-Version: 1.0
 To: Bonnard.Teegarden@cesr.cnes.fr, KHURLEY@sunspot.ssl.berkeley.edu,
 palmer@lheamail.gsfc.nasa.gov, seifert@lheamail.gsfc.nasa.gov
 From: cline@lheavx.gsfc.nasa.gov (T L Cline)
 Subject: For Your INFO

Dear Bonnard, Kevin, David, Helmut:

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

- TLC

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

KONUS

15 / 2 / 96

ULYSSES RT

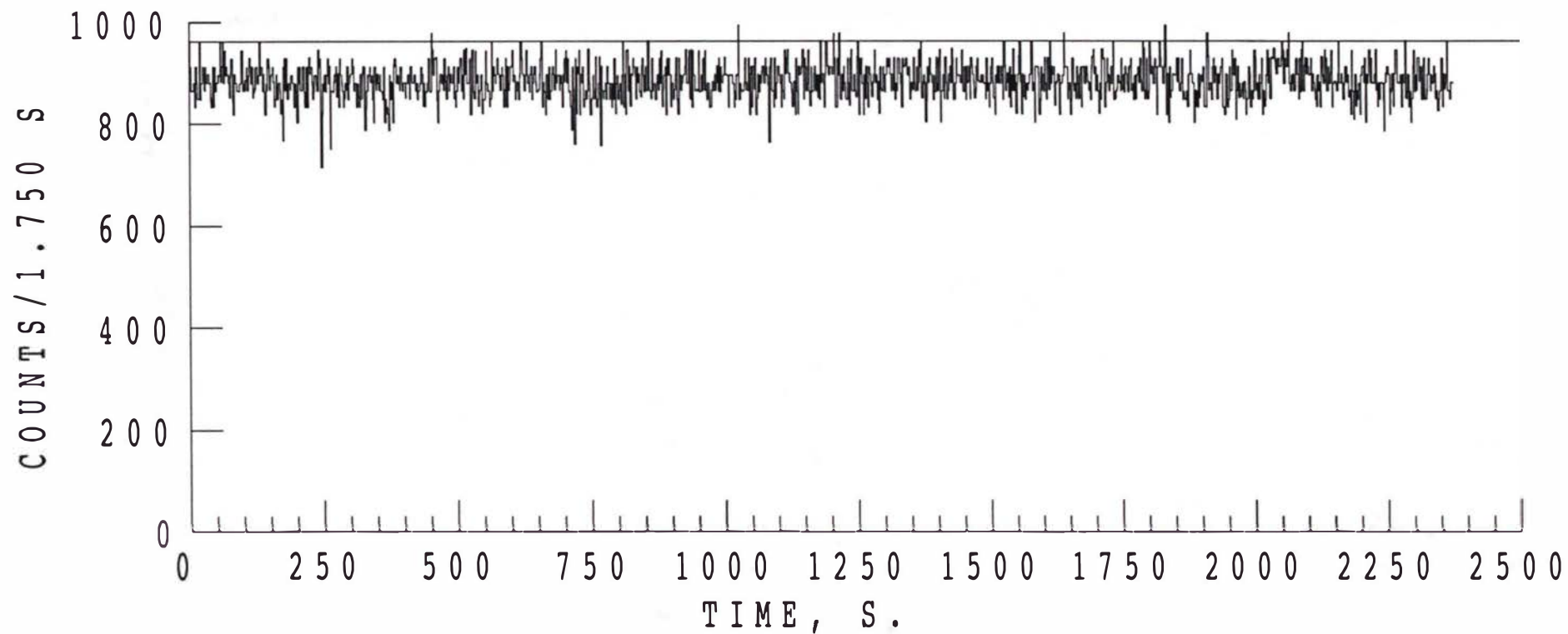
14 / 5 / 95 73584.062 s

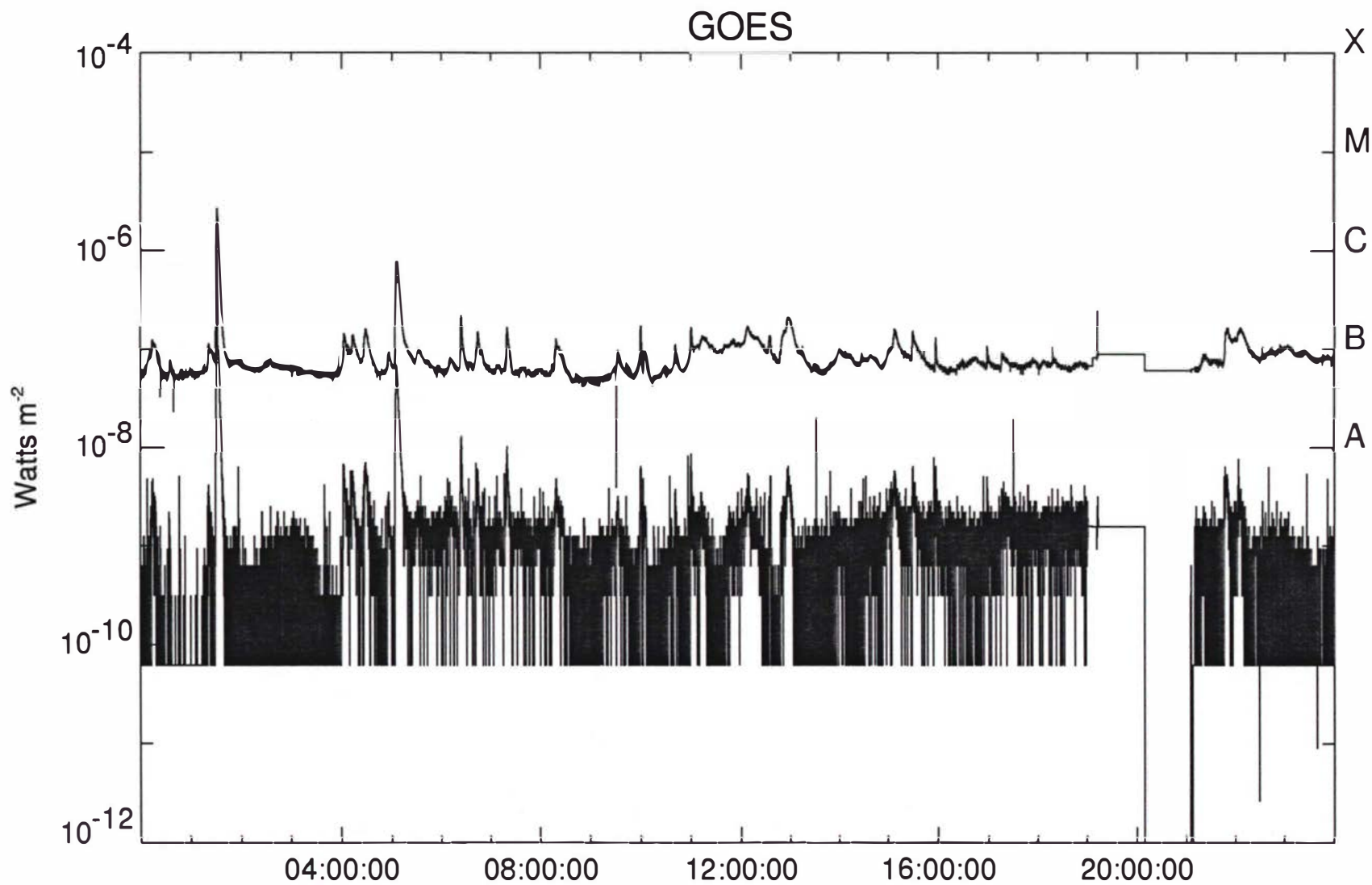
0.250 S INTERVALS REGROUPED BY 7

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS





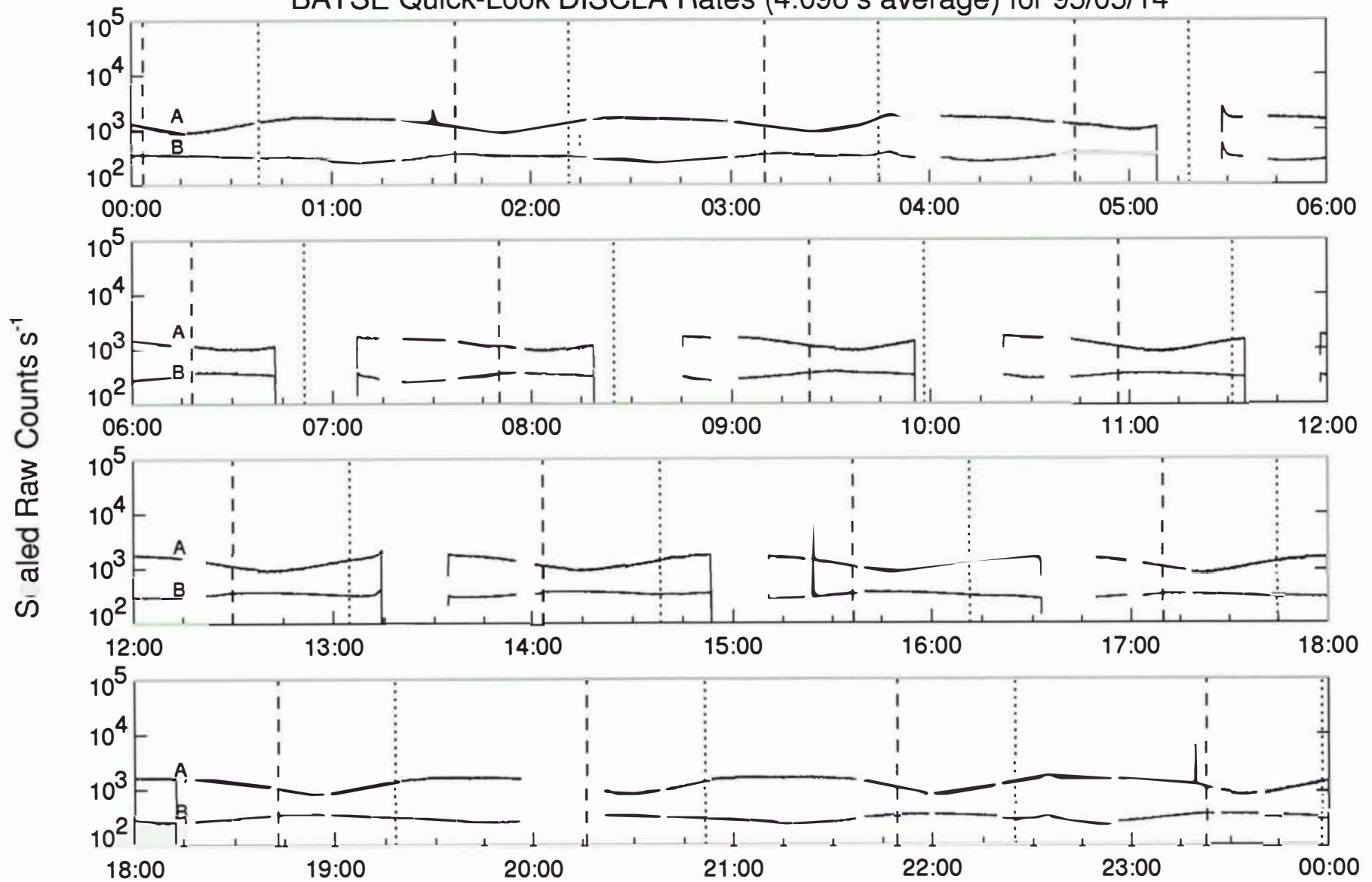
Data Start: 95/05/14, 0000:03

Plot created: 95/05/16, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/14

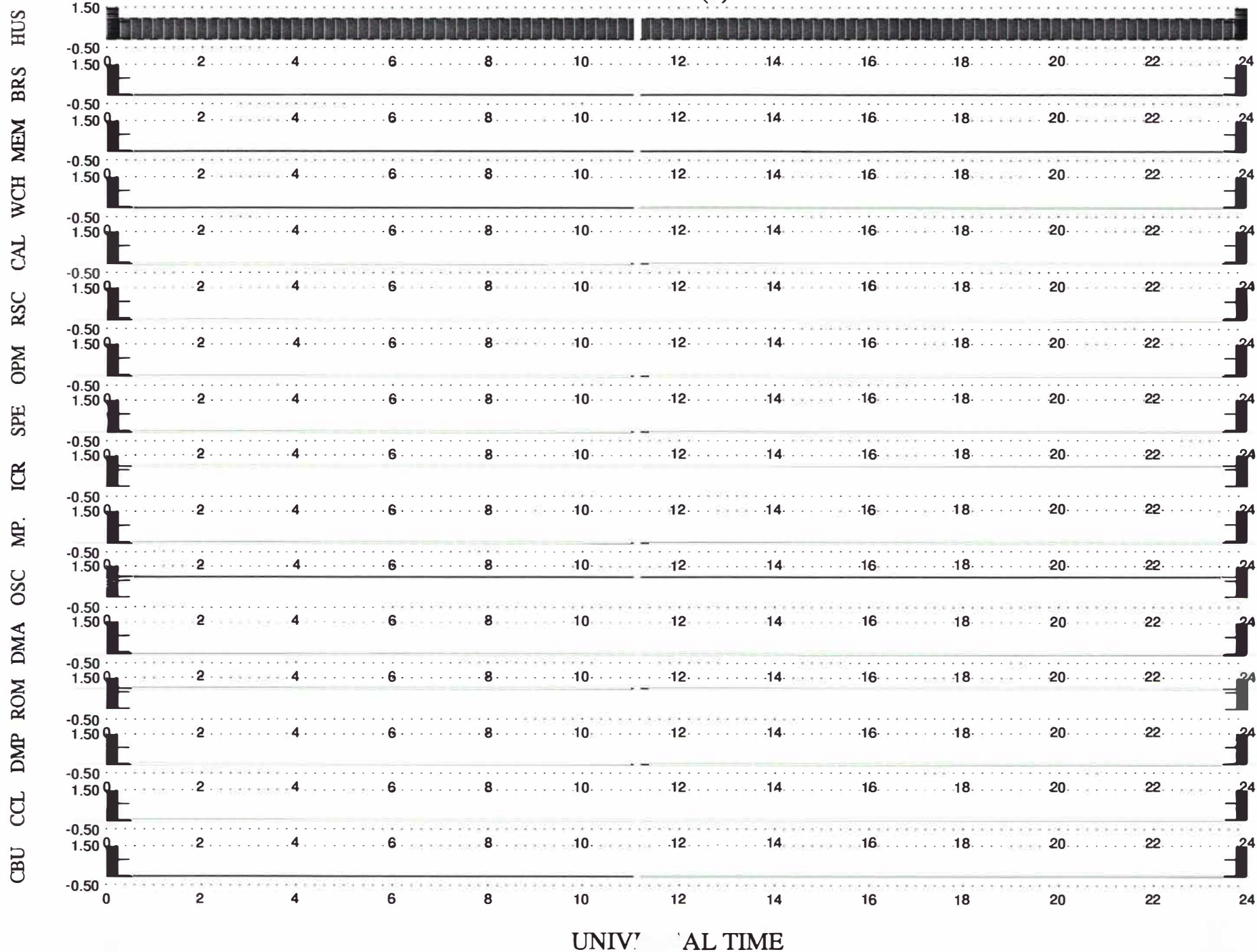


Current Time: 95/05/16, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

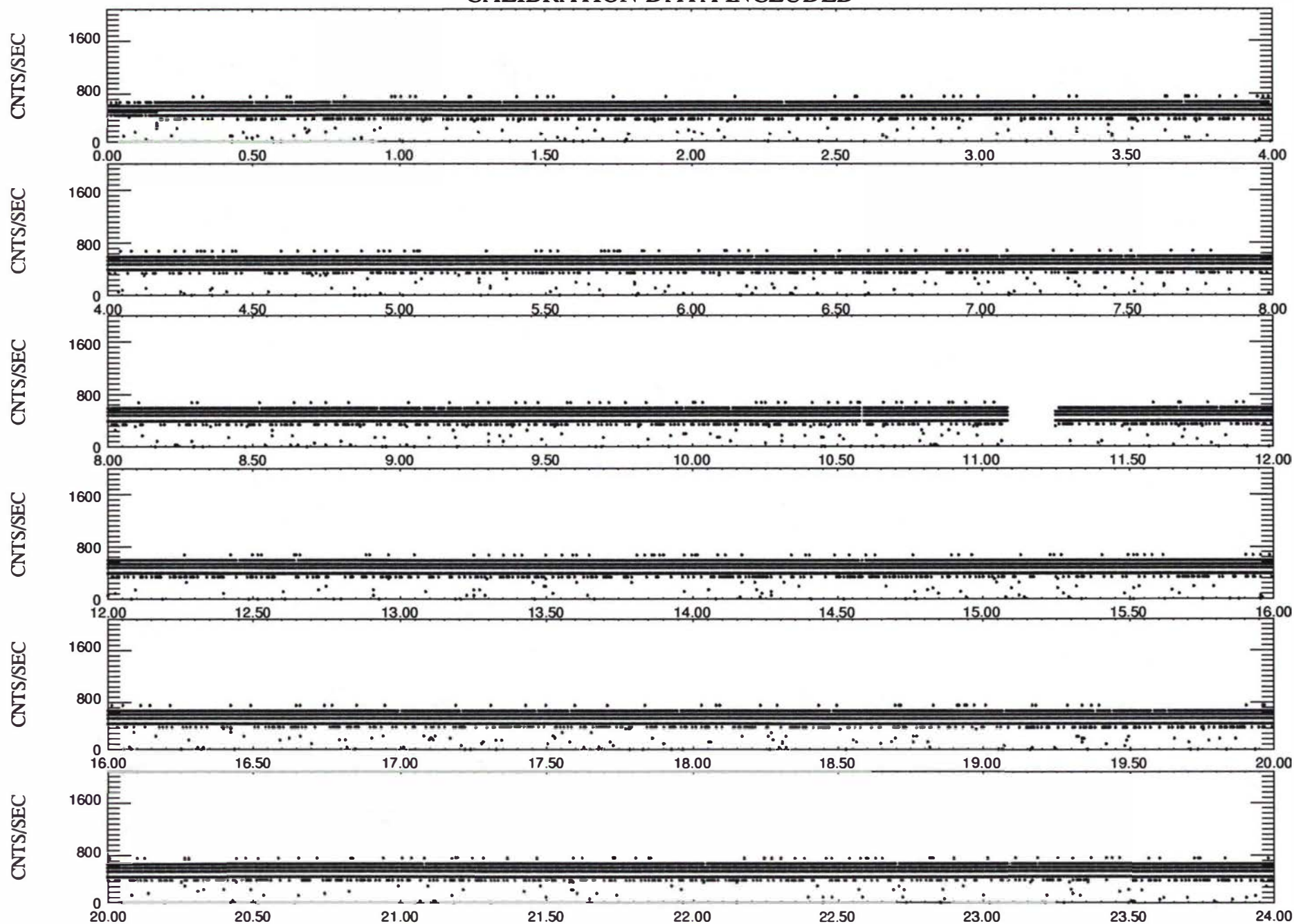
* Solar Burst Trigger
 + Solar Flare

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 134, year 1995 to day 134, year 1995
CALIBRATION DATA INCLUDED

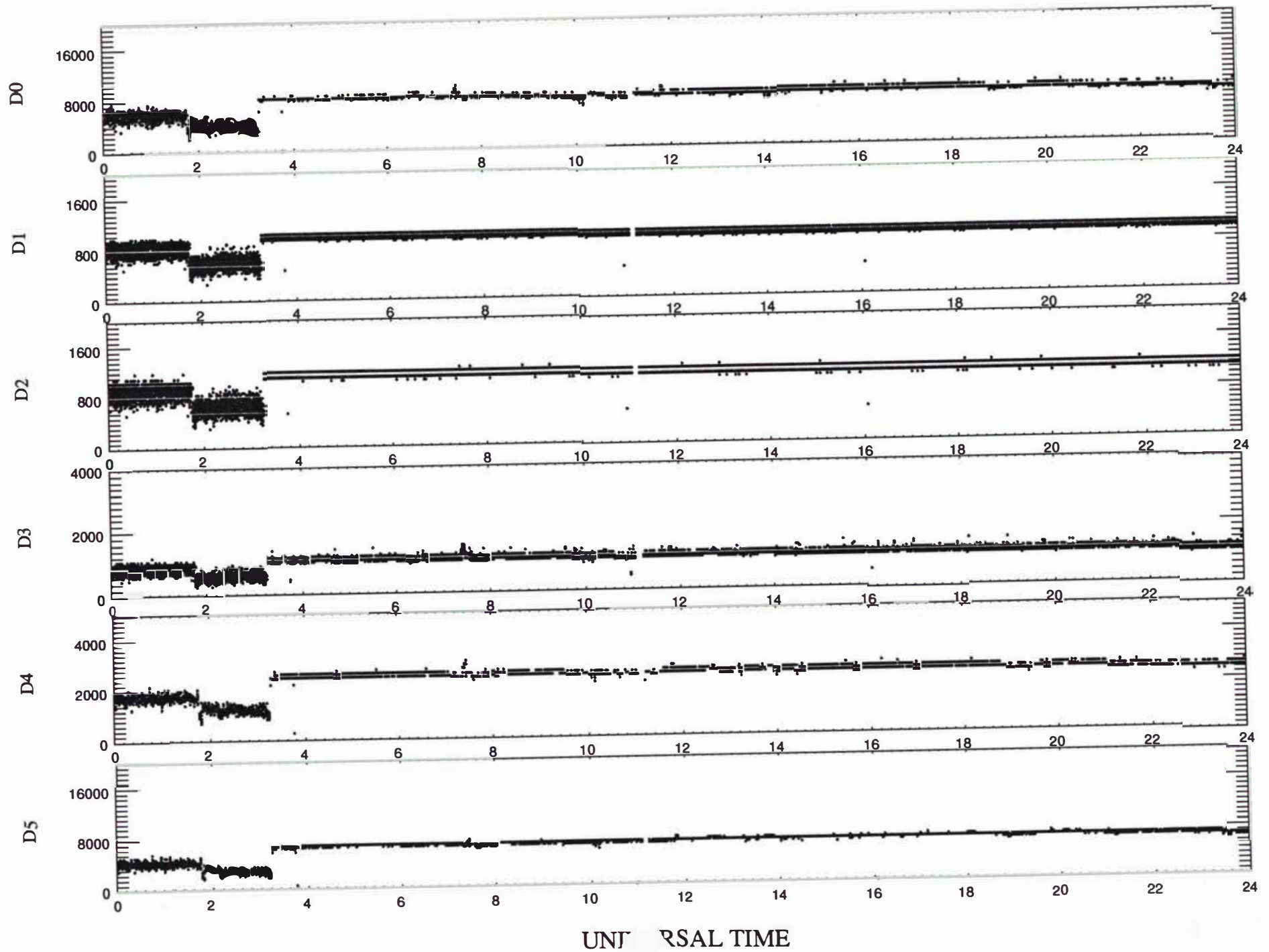
11/21/95



UNIVERSAL TIME

HUS 2B COUNTS / SEC QEDR day 134, year 1995 to day 134, year 1995

5/17/95



Date: Aug 24 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

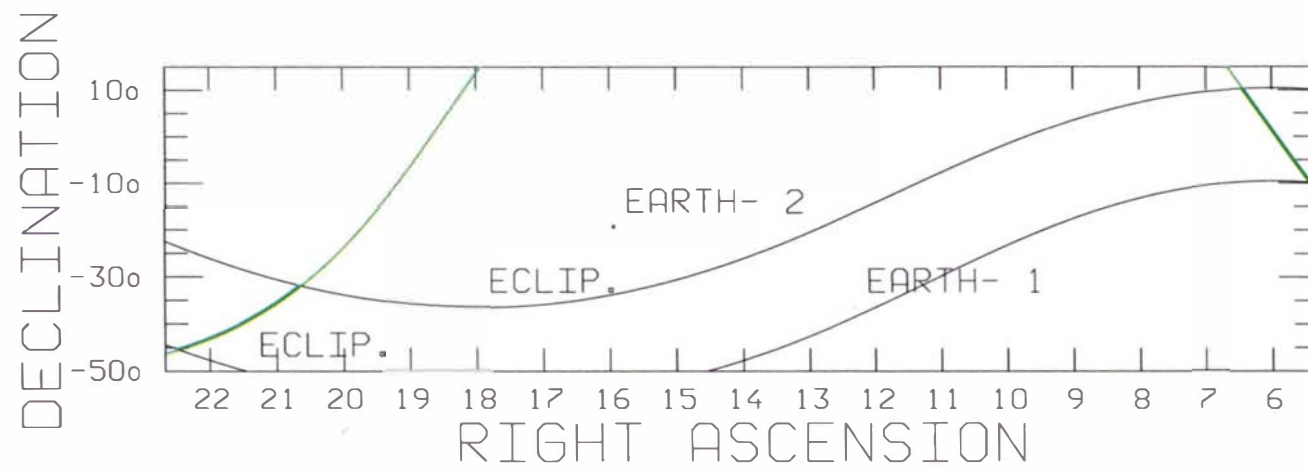
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

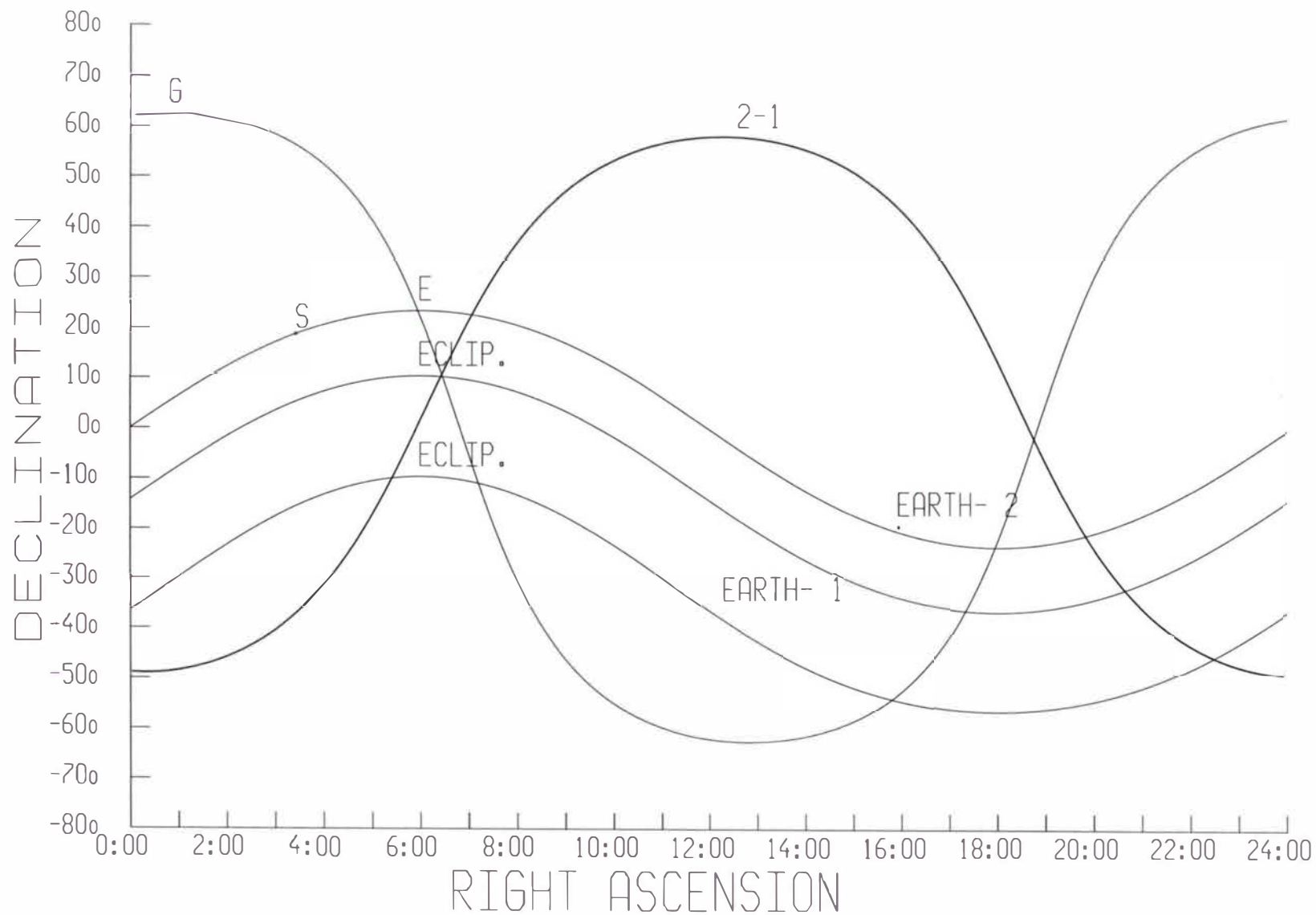
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

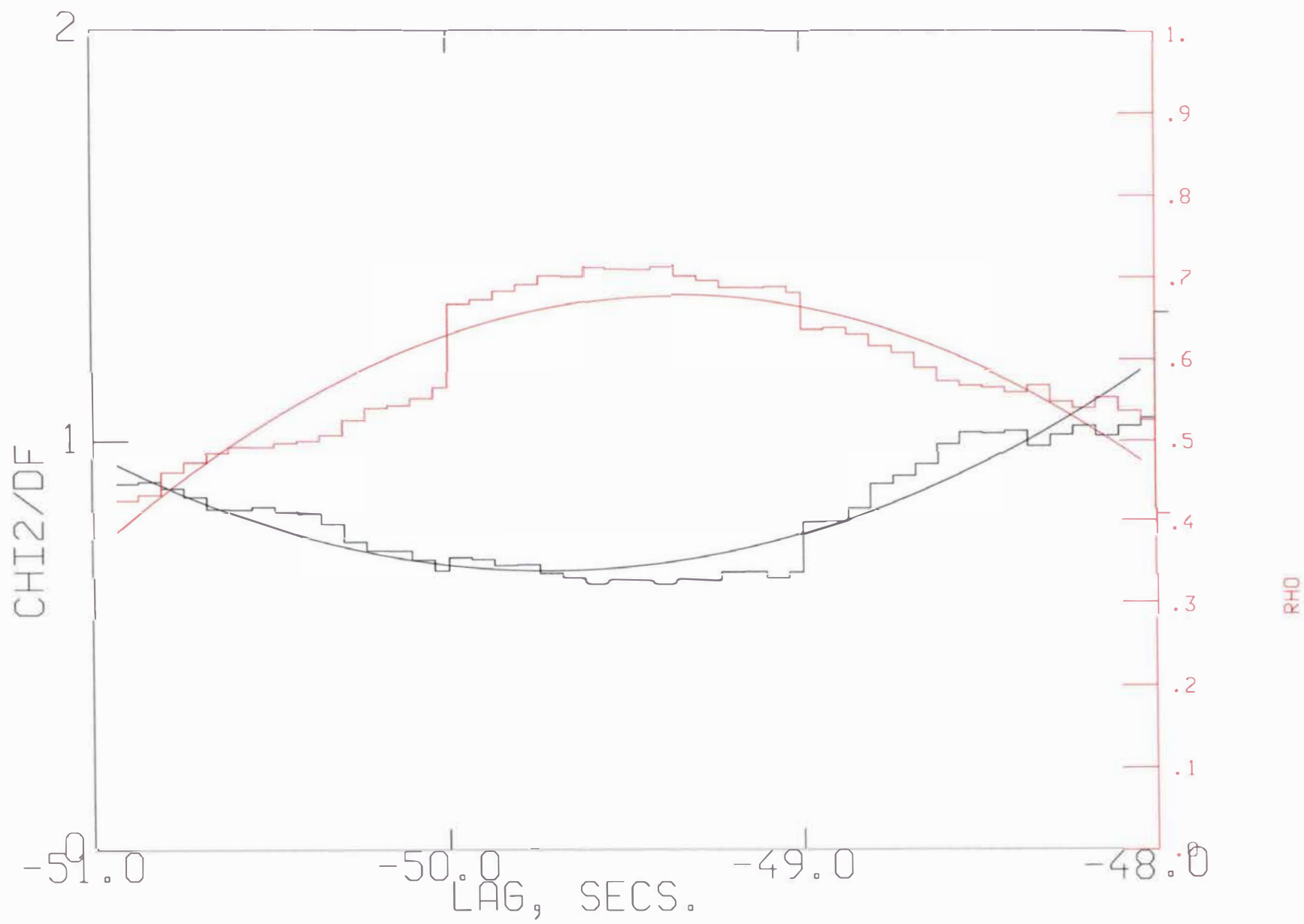


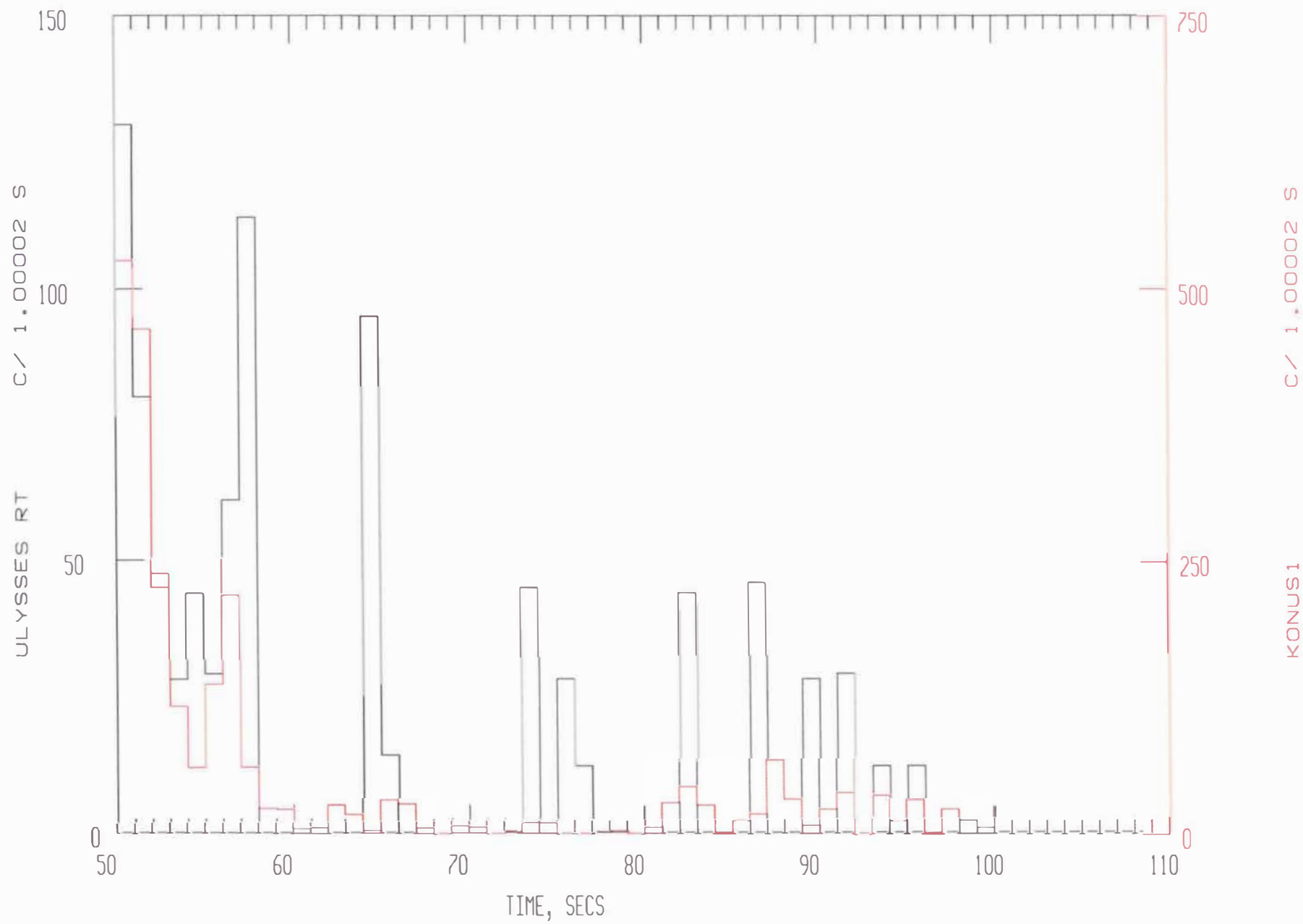
EVENT OF MAY 15, 1995 0:52

24/08/2011

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







KONUS 19950515 03196

ULYSSES RT

23 / 08 / 11

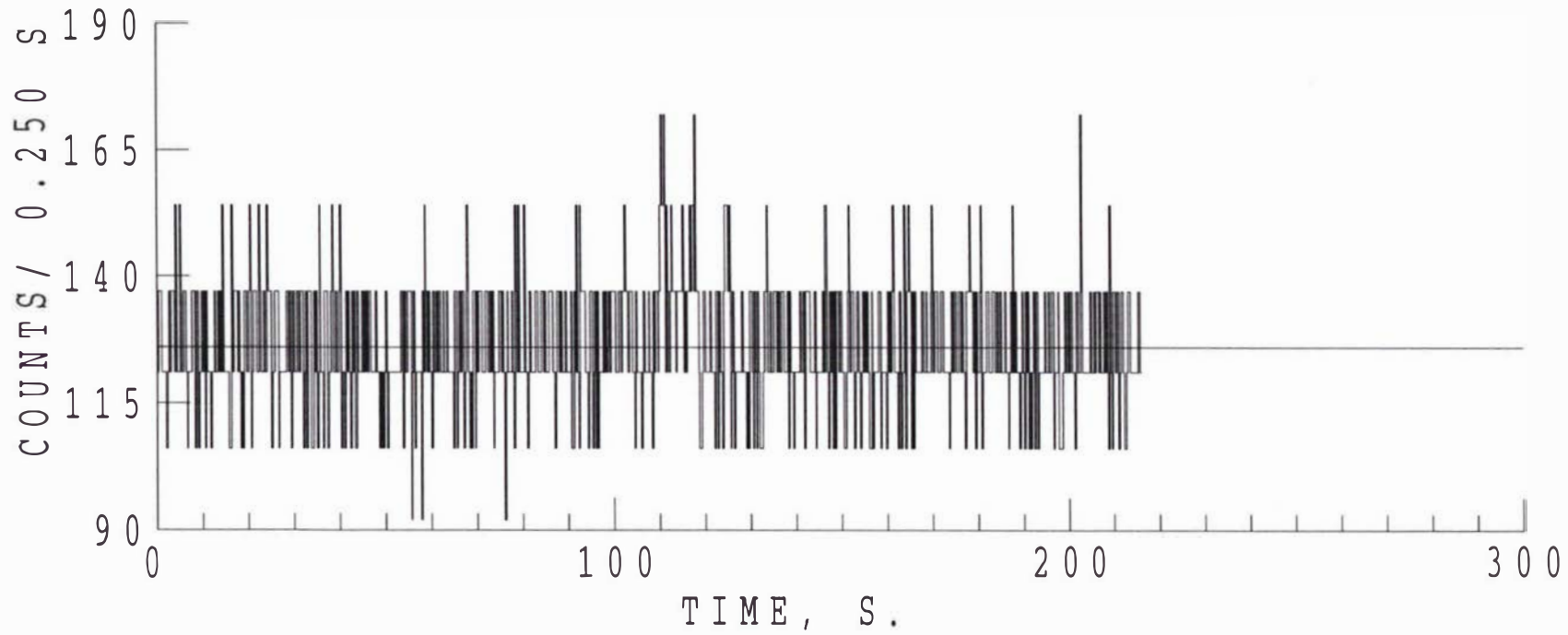
15 / 05 / 95 3096.122 s

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

||

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



Date: Aug 24 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

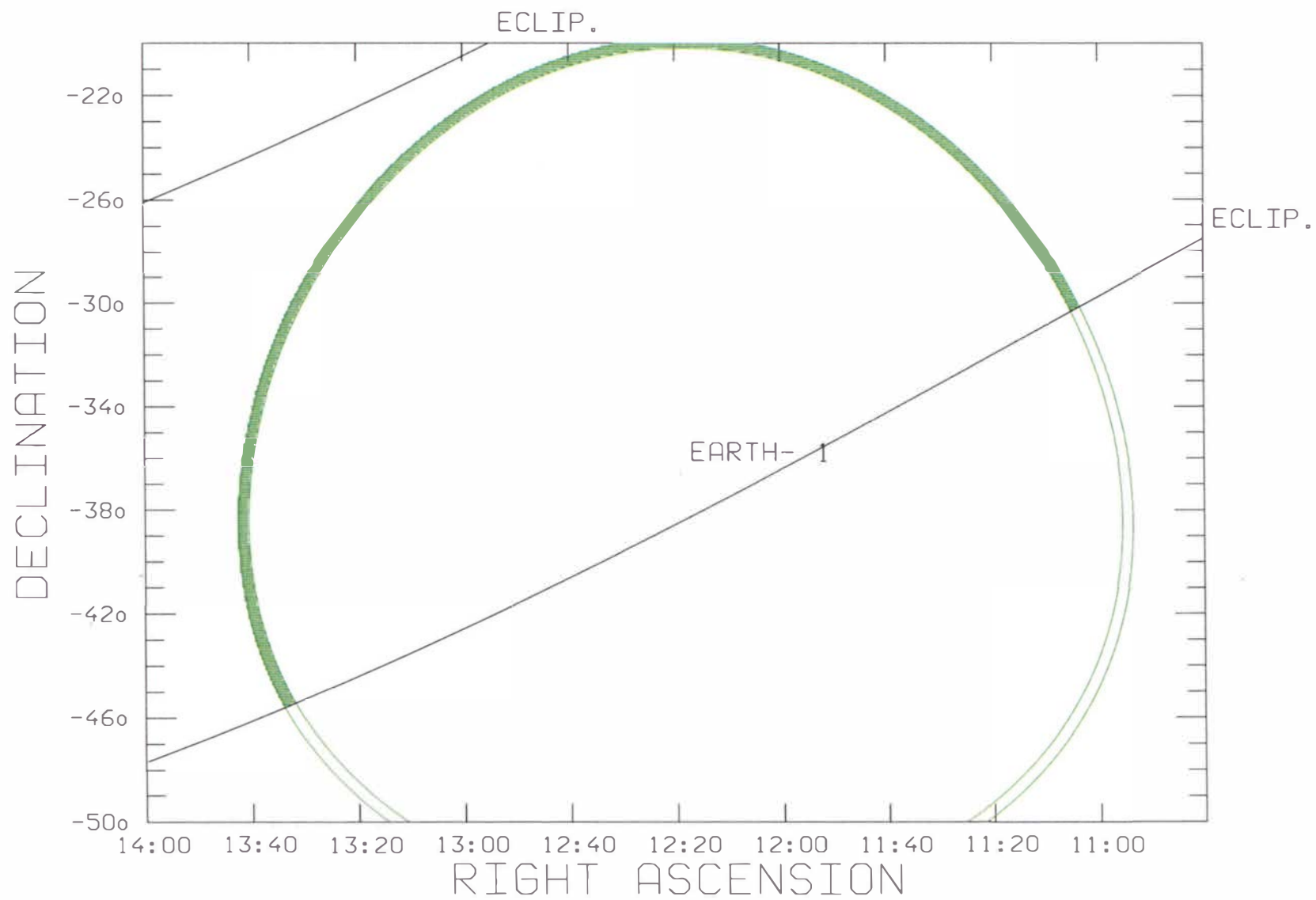
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

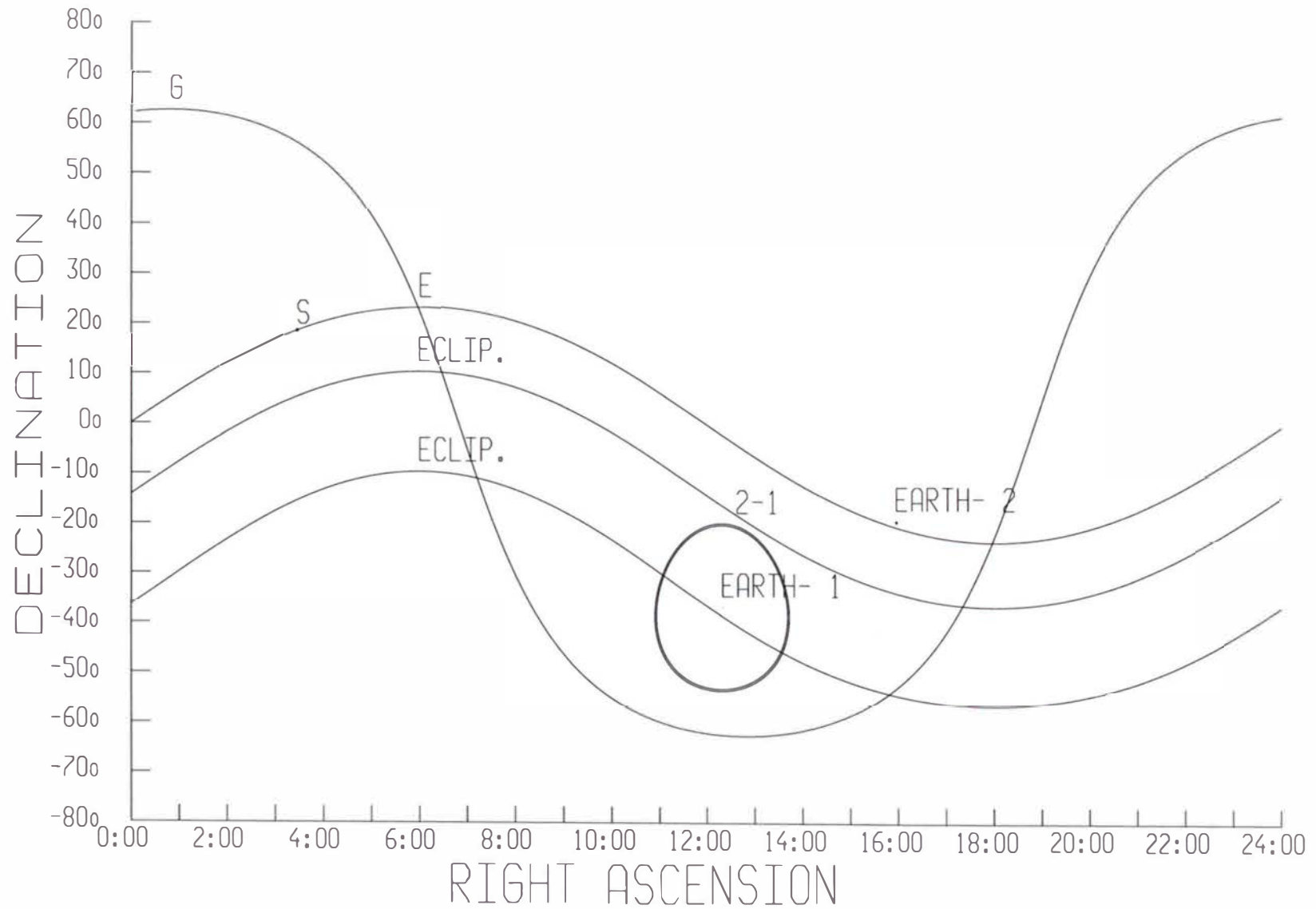
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

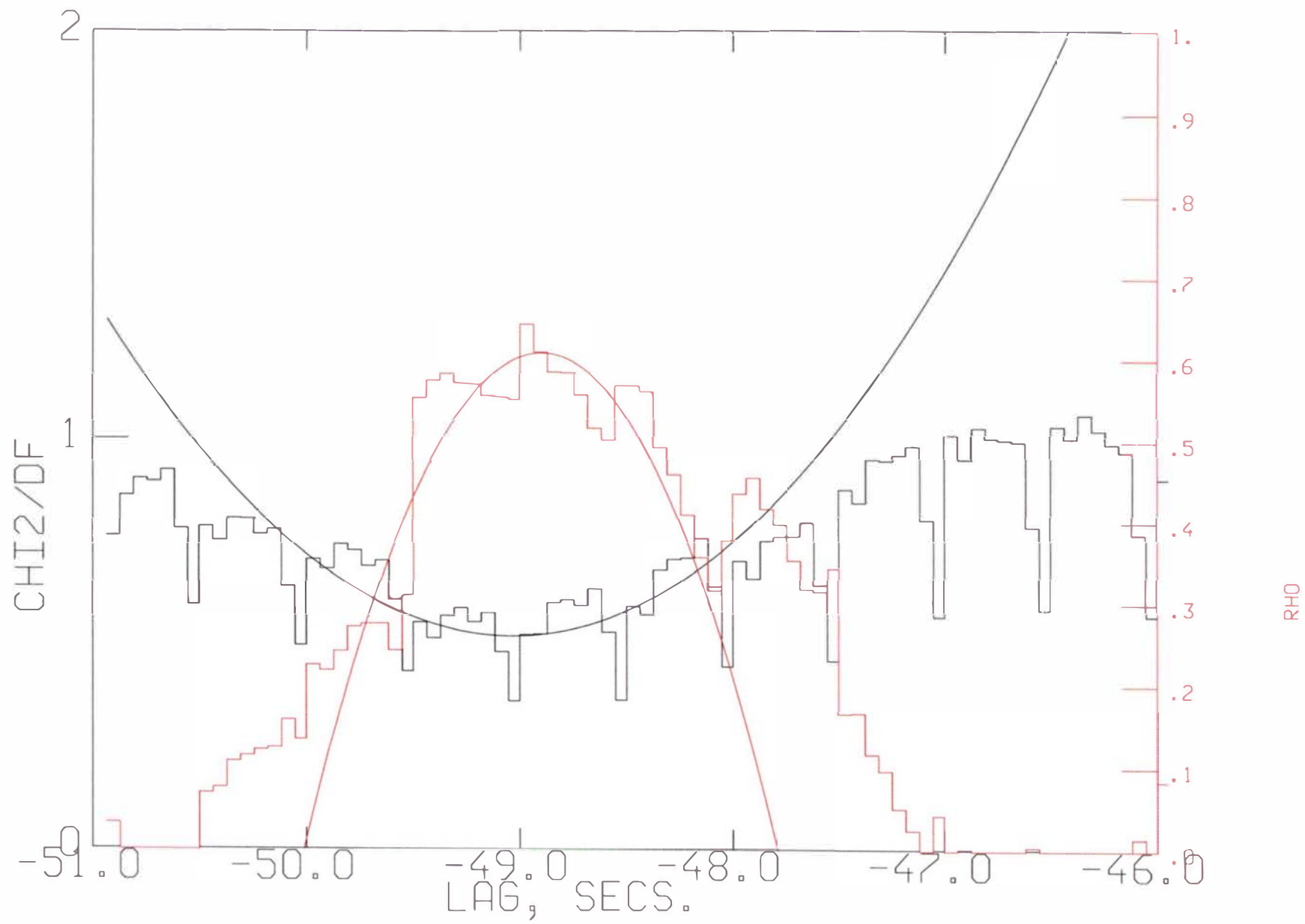


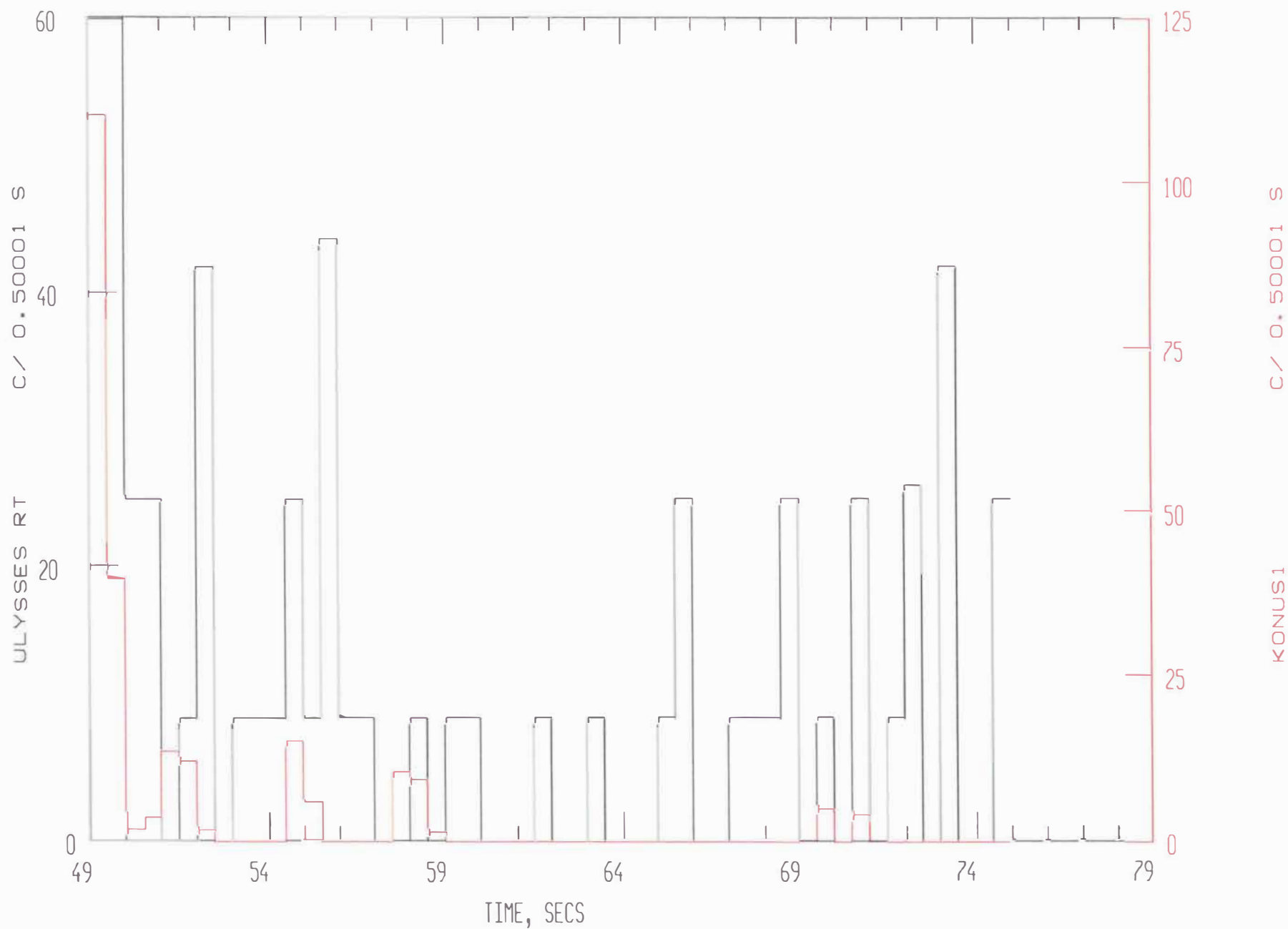
EVENT OF MAY 15, 1995 6:40

24/08/2011

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







KONUS 19950515 24096

ULYSSES RT

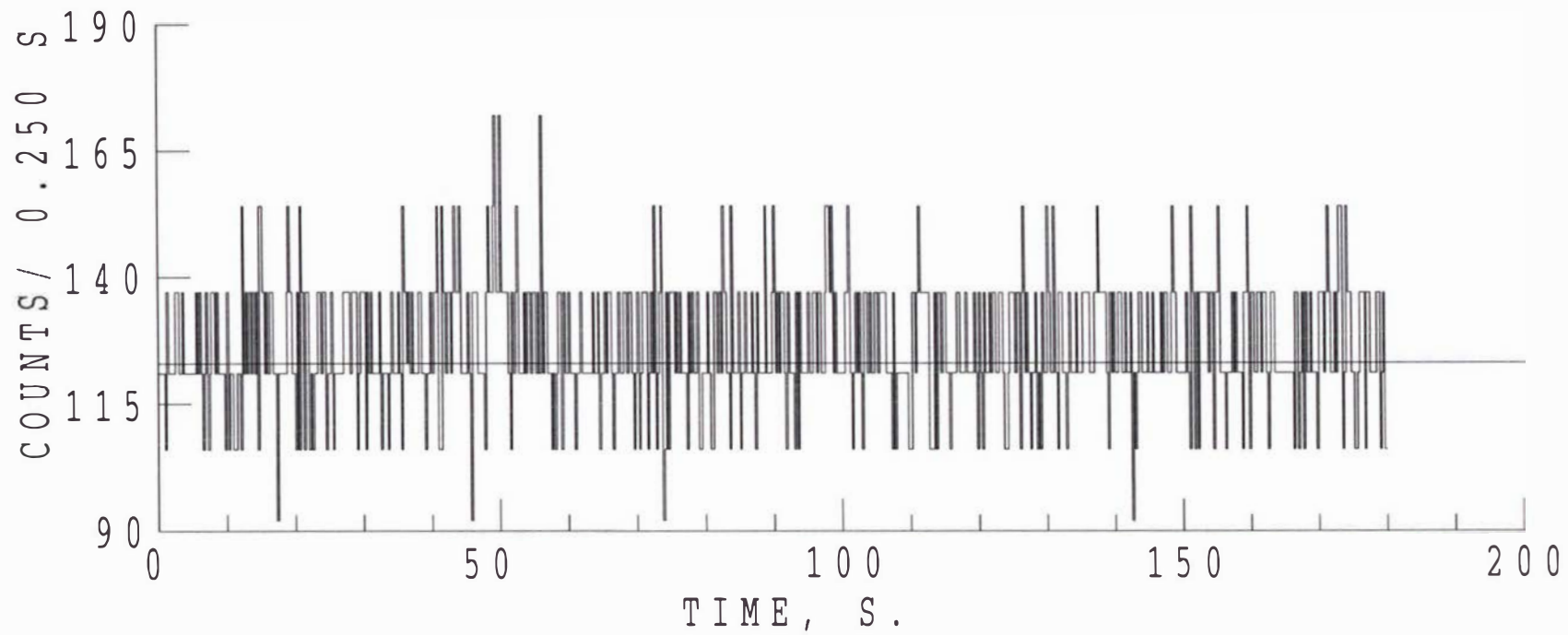
23 / 08 / 11

15 / 05 / 95 24012.027 s

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



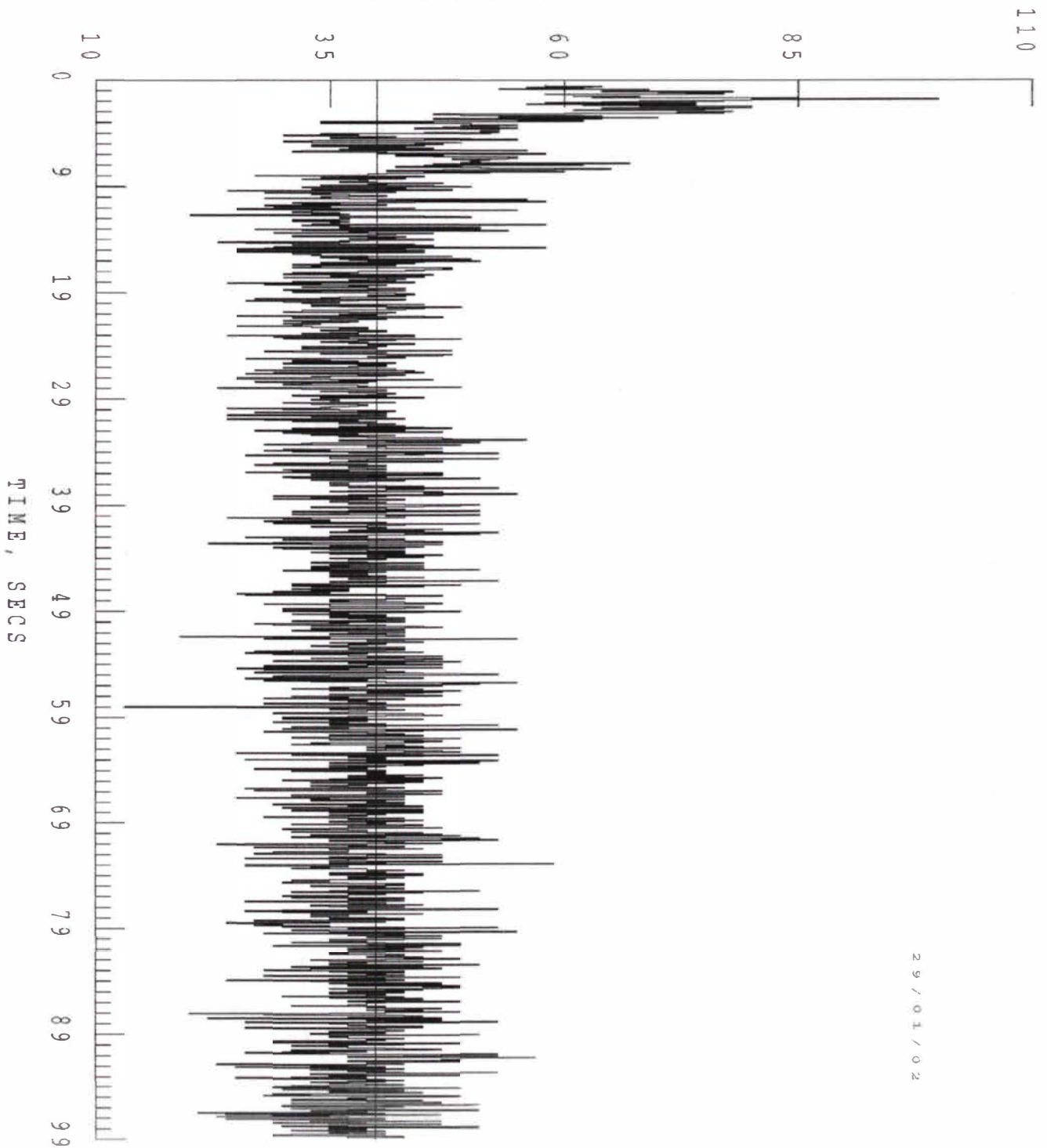
KONUS1

15/05/95

3288.326

50 - 200 keV

COUNTS/0.064 S



KONUS1 19950515 0328

ULYSSES RT

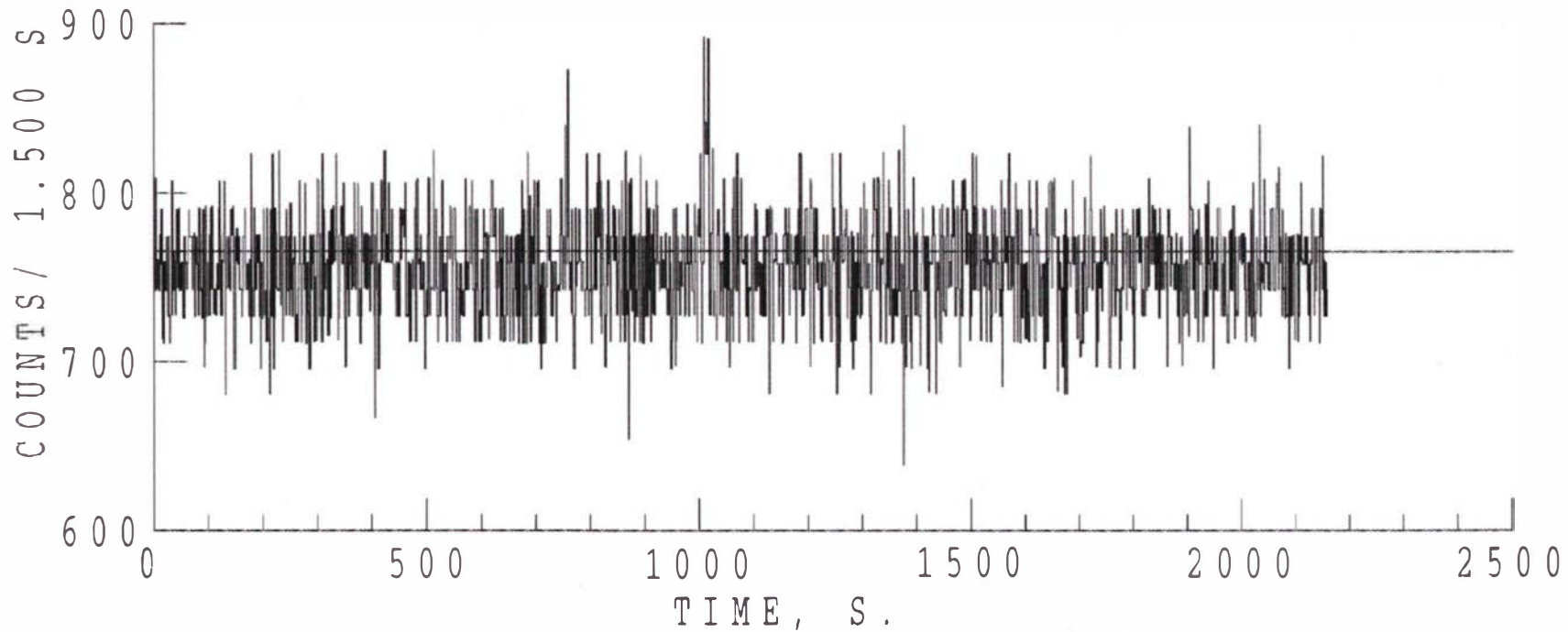
29 / 01 / 02

15 / 05 / 95 2196.102 s

0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



30

From williams@sunspot Thu Sep 10 18:05 PDT 1998
Date: Thu, 10 Sep 1998 18:09:58 -0700
From: williams@sunspot (Roger Williams)
To: khurley@sunspot
Subject: RT Event Problems 94258-96229
Cc: williams@sunspot

Kevin,

The next wave of results is finished relative to differences in ascii files for events from your realtime event list. These results are for yyddds from your list in the range 94258-96229 or Sep 15, 1994 to August 16, 1996.

Using yyddds from your list we investigated ALL ascii files that we have made on that day and compared old vs. new decom versions. Again, this was because times in the list were Earth times and thus not easily related to a Ulysses window. Thus the list of files may contain irrelevant entries.

The list of files is attached.

Roger and J

<This message contains 1 attachments (not printed)>

Tuning problem around time of RI

e94321_2A1_02.91_03.58.ascii.diff.Z
e94324_2A1_20.05_20.72.ascii.diff.Z
e94331_2A1_15.32_15.99.ascii.diff.Z
e94356_2A1_05.27_05.93.ascii.diff.Z
e94356_2A1_07.32_07.44.ascii.diff.Z
e95013_2A1_05.65_06.32.ascii.diff.Z
e95042_2A1_02.31_02.45.ascii.diff.Z
e95042_2A1_04.10_04.76.ascii.diff.Z
e95076_2A1_20.14_20.81.ascii.diff.Z
e95091_2A1_20.66_20.80.ascii.diff.Z
e95135_2A1_06.08_06.74.ascii.diff.Z
e95176_2A1_02.36_03.02.ascii.diff.Z
e95221_2A1_23.76_23.89.ascii.diff.Z
e95274_2A1_11.27_12.02.ascii.diff.Z
e95275_2A1_22.78_22.91.ascii.diff.Z
e95306_2A1_05.54_05.66.ascii.diff.Z
e95323_2A1_11.72_14.09.ascii.diff.Z
e95359_2A1_09.18_09.96.ascii.diff.Z
e96007_2A1_05.00_05.78.ascii.diff.Z
e96007_2A1_18.67_19.45.ascii.diff.Z
e96015_2A1_17.16_17.31.ascii.diff.Z
e96106_2A1_01.13_01.31.ascii.diff.Z
e96142_2A1_16.64_18.08.ascii.diff.Z
e96149_2A1_02.19_02.42.ascii.diff.Z
e96185_2A1_13.93_14.38.ascii.diff.Z
e96185_2A1_14.02_14.24.ascii.diff.Z
e96209_2A1_11.24_12.68.ascii.diff.Z
e96226_2A1_10.12_11.51.ascii.diff.Z

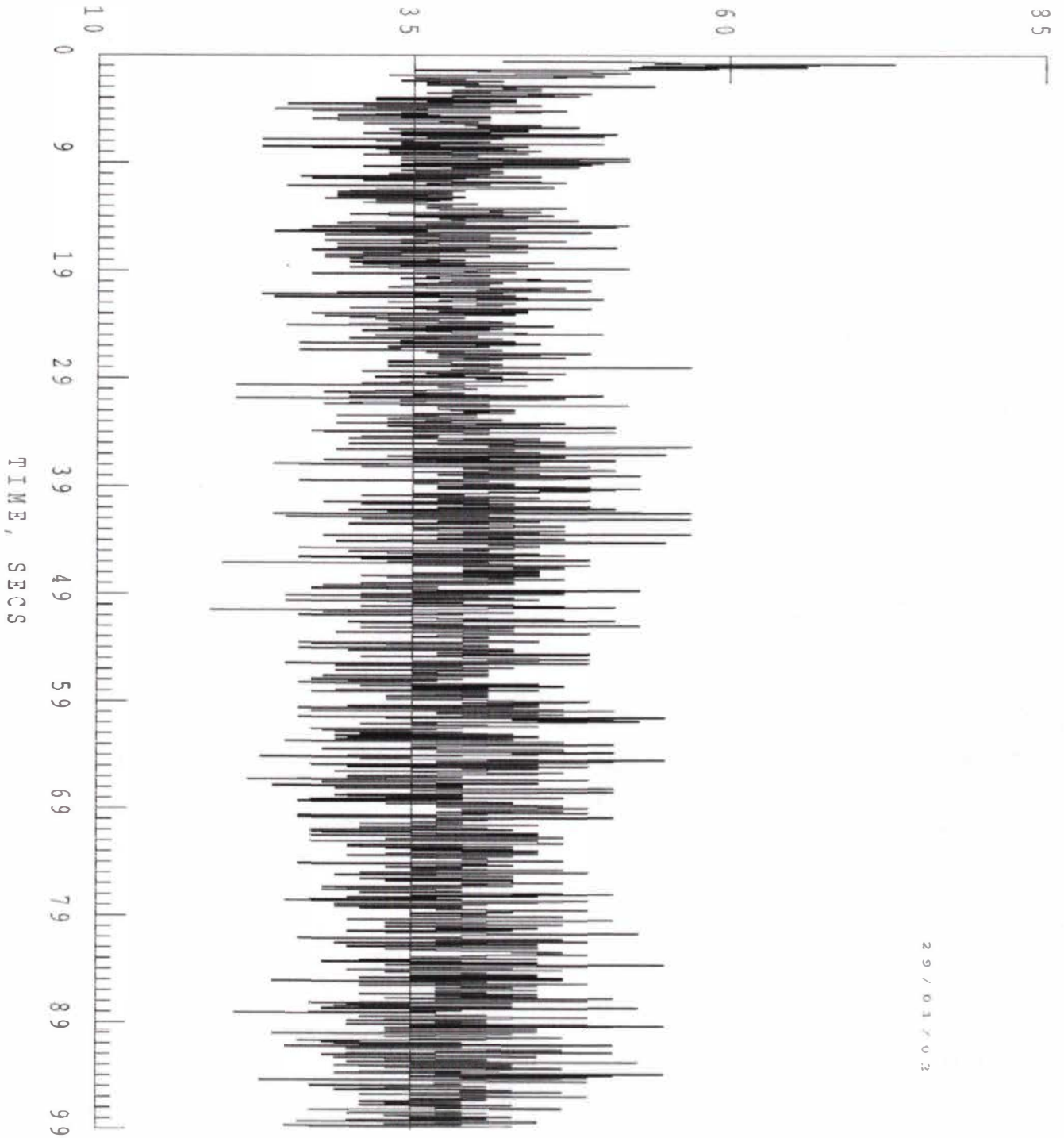
KONUS1

15/05/95

23077.820

50 - 200 KEV

COUNTS/0.064 S



KONUS1 19950515 23077

ULYSSES RT

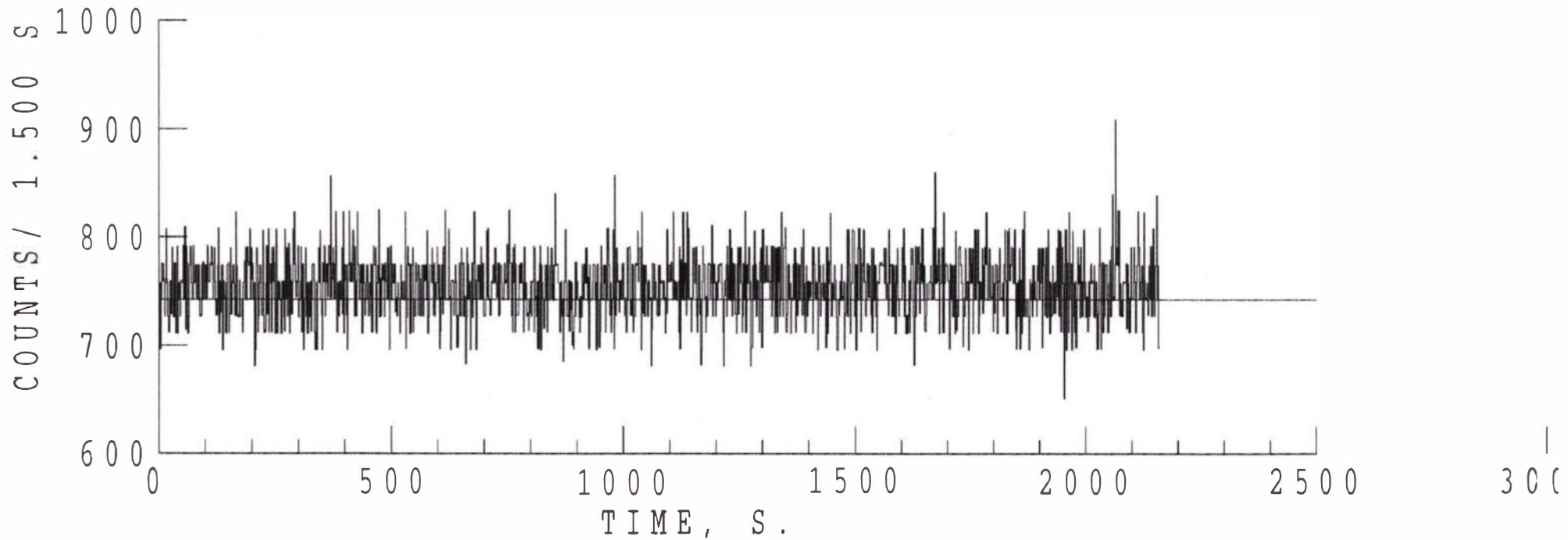
29 / 01 / ● 2

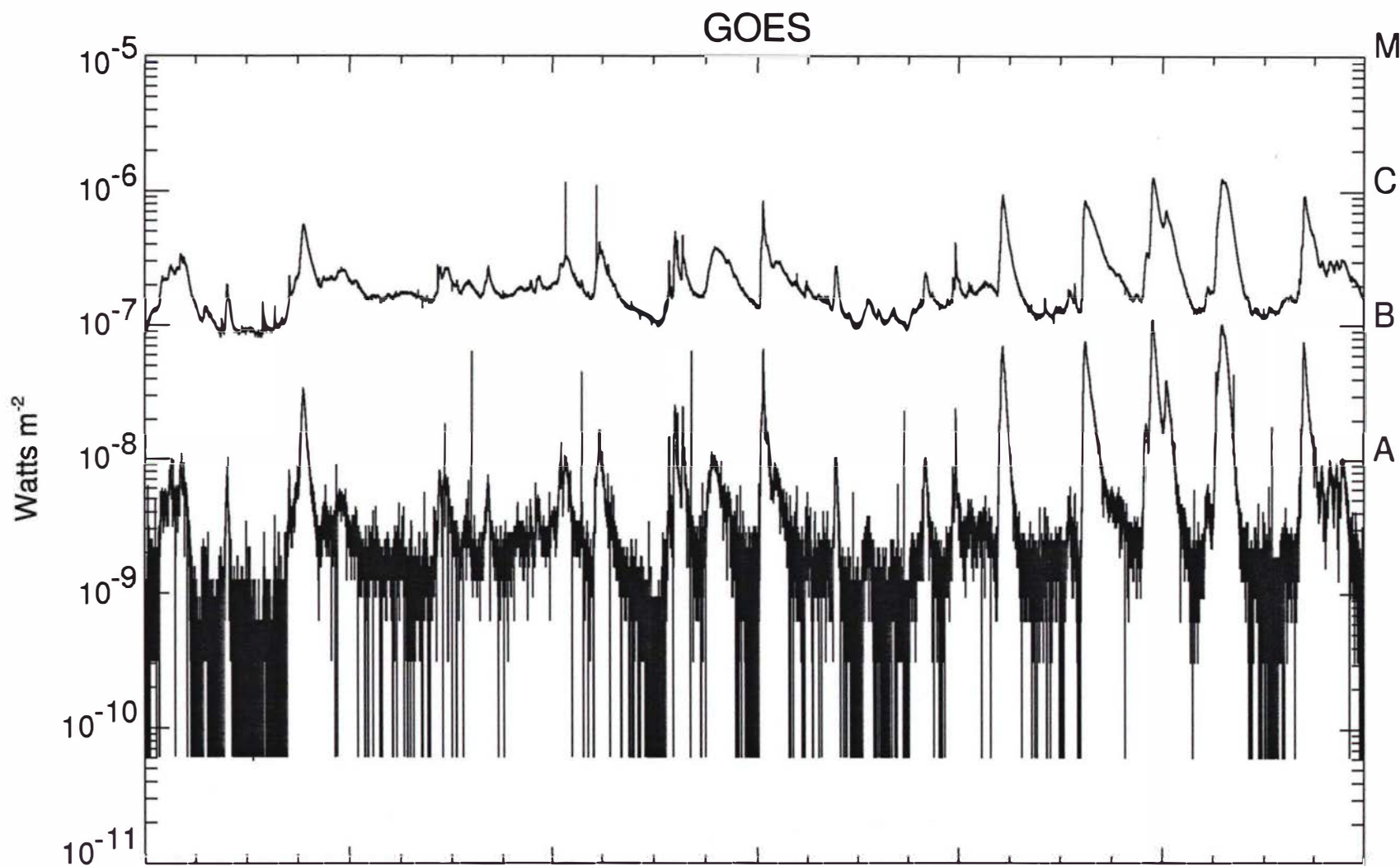
15/05/95 21996.240 s

0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS





Data Start: 95/05/15, 0000:00

Plot created: 95/05/17, 0529

Channel

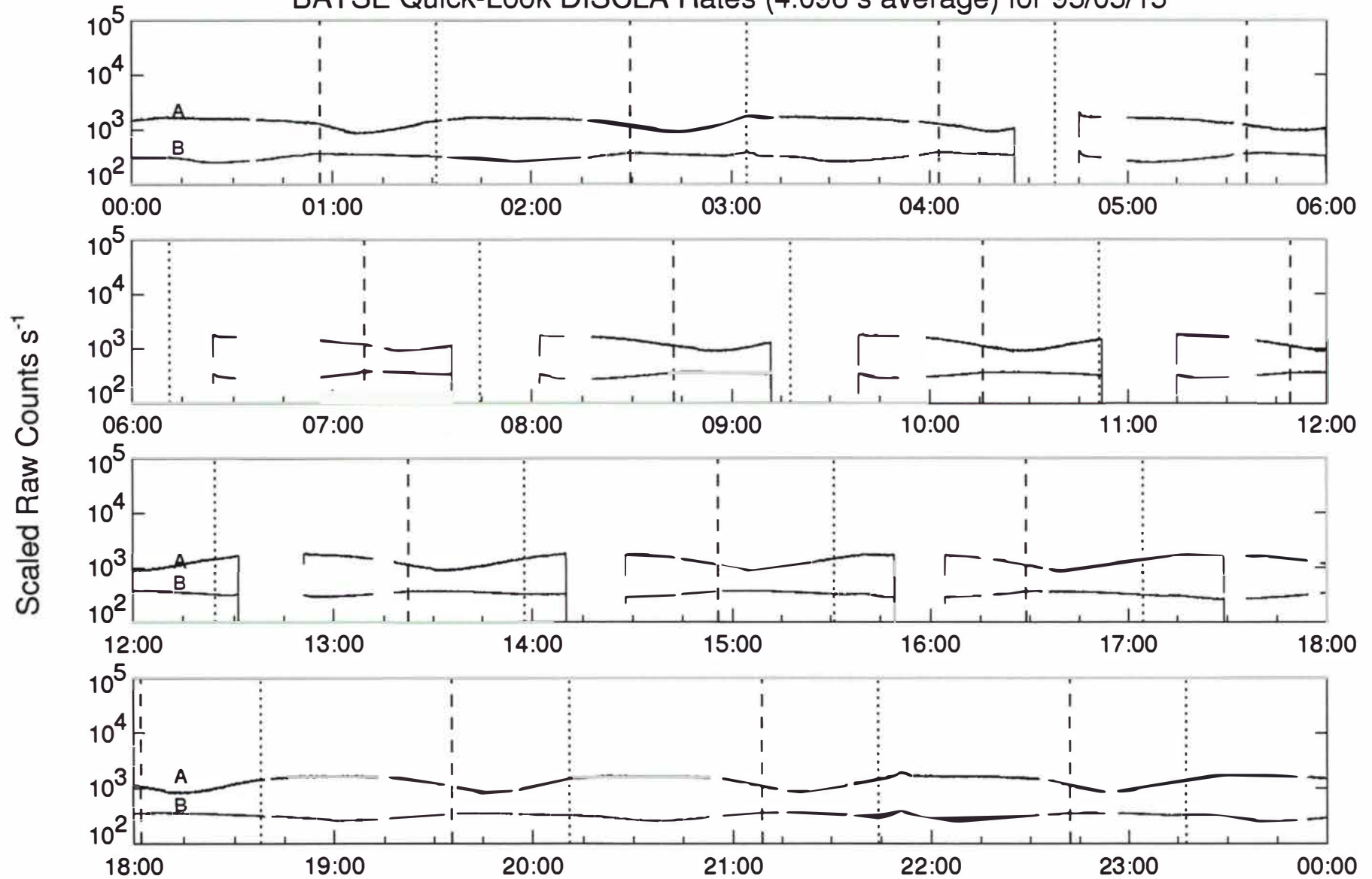
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/15



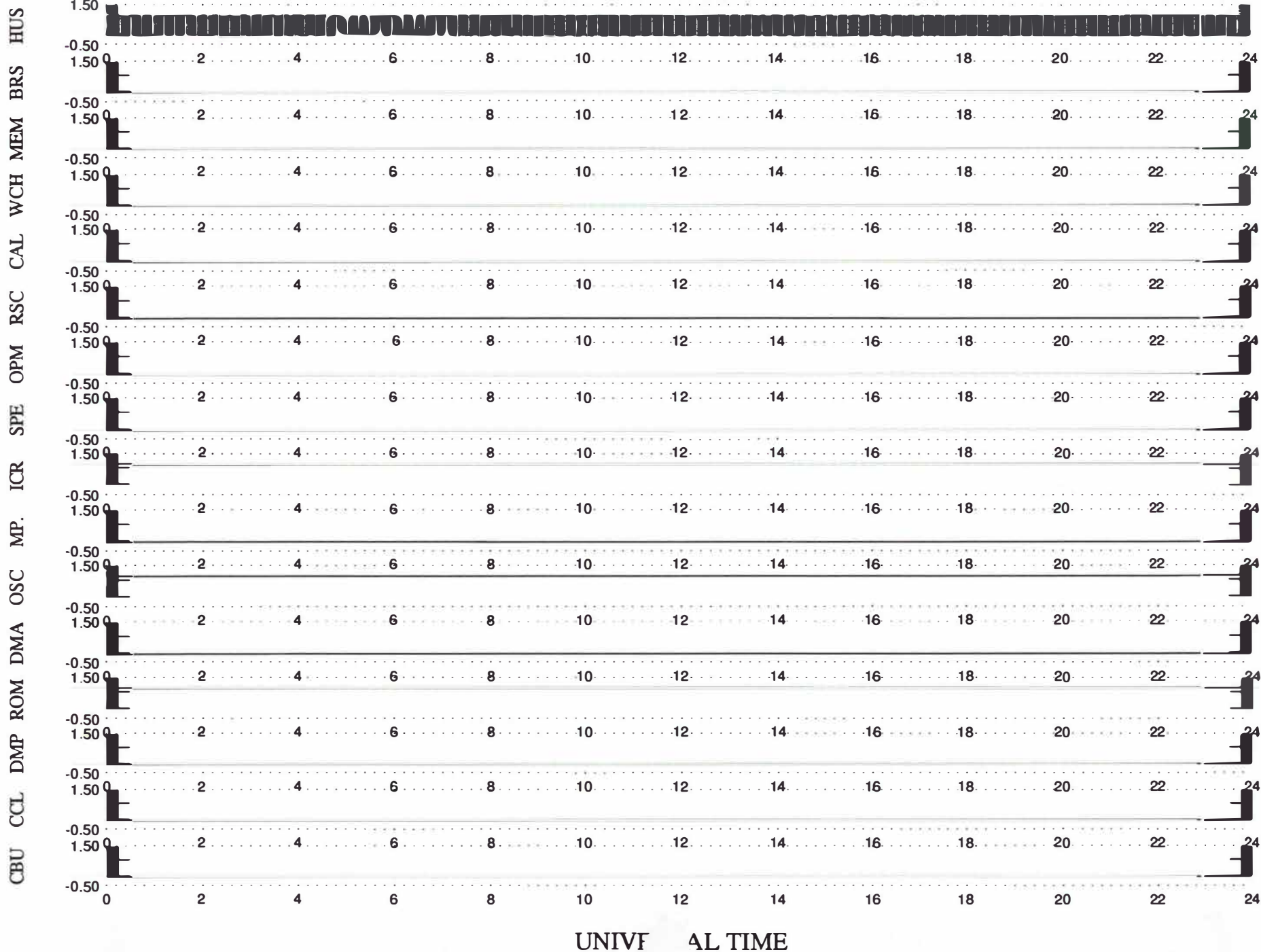
Current Time: 95/05/17, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

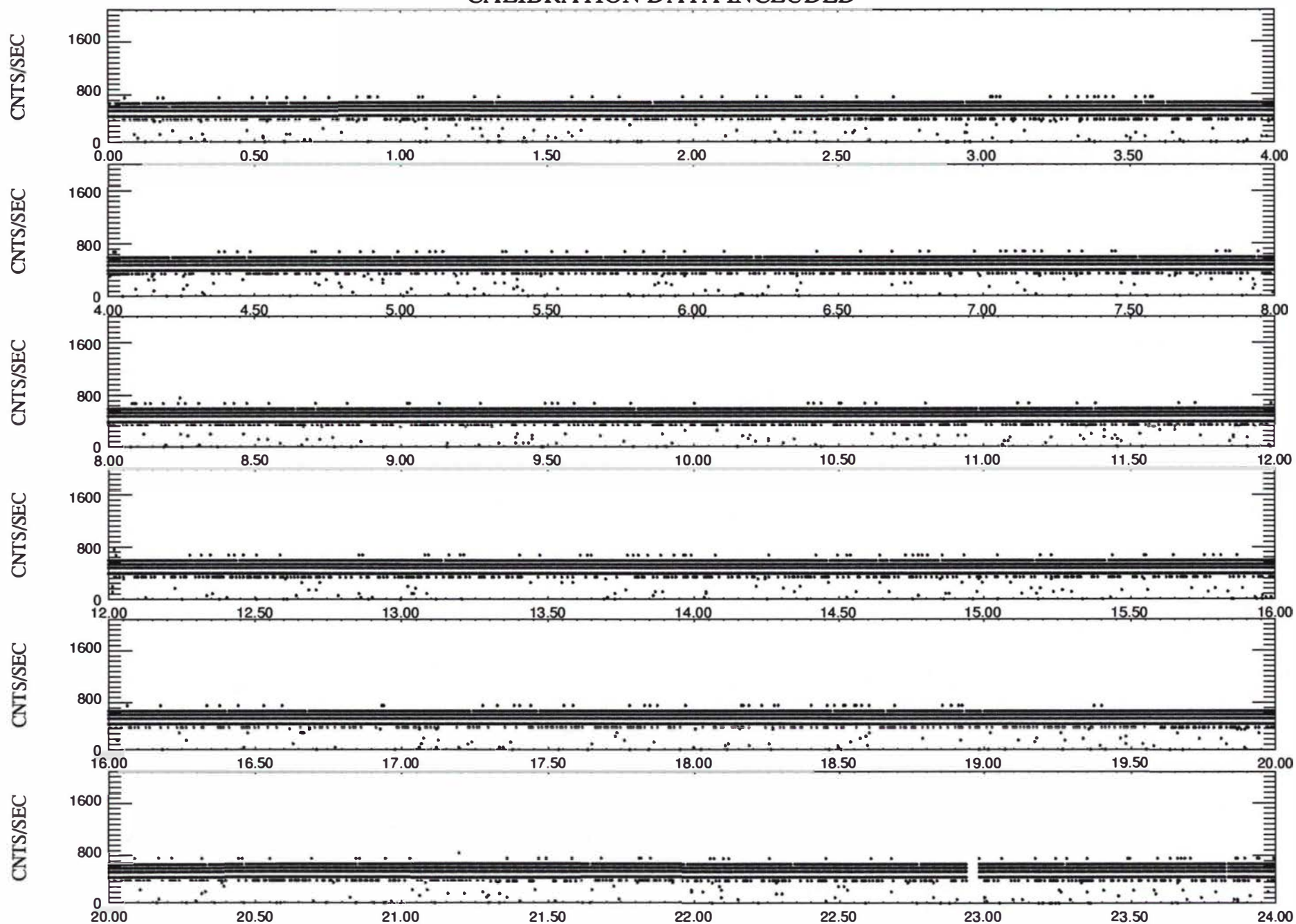
HUS MODES EDR day 135, year 1995 to day 135, year 1995
NO BURST (3)

11/21/95

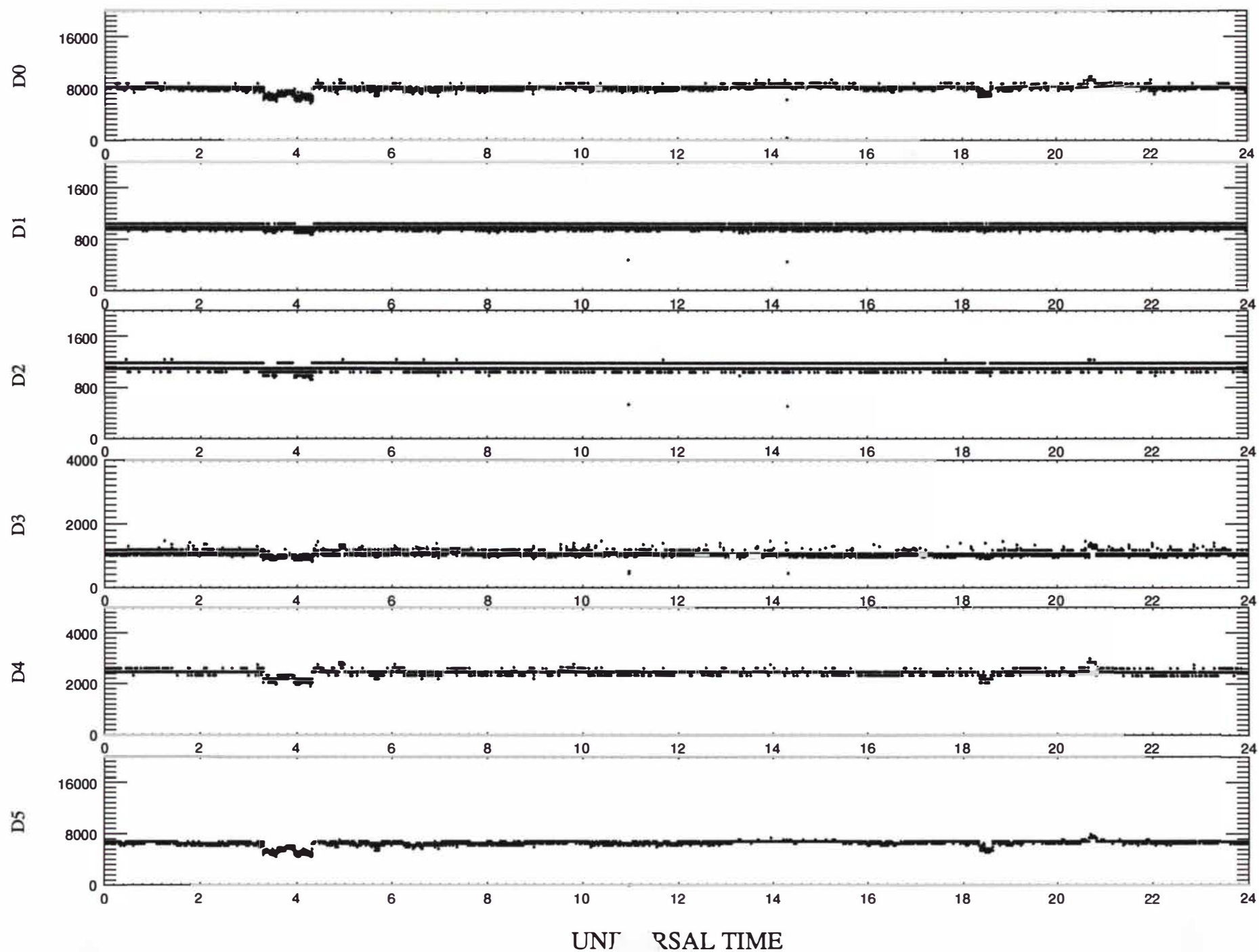


HUS 2A, MODE 1, NOT AVERAGED EDR day 135, year 1995 to day 135, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIFORM TIME



From DEAL@ssl.msfc.nasa.gov Wed May 17 13:13 PDT 1995
Date: Wed, 17 May 1995 15:13:25 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3573

TIME: TJD=9853 SECONDS=42139

TYPE: SAA ENT SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY

From DEAL@ssl.msfc.nasa.gov Wed May 17 13:15 PDT 1995
Date: Wed, 17 May 1995 15:15:30 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3574

TIME: TJD=9853 SECONDS=53425

TYPE: SAA ENT SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY

From DEAL@ssl.msfc.nasa.gov Thu May 18 12:03 PDT 1995
Date: Thu, 18 May 1995 14:02:53 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3575

TIME: TJD=9853 SECONDS=75695

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

From DEAL@ssl.msfc.nasa.gov Thu May 18 12:08 PDT 1995
Date: Thu, 18 May 1995 14:07:51 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3576

TIME: TJD=9853 SECONDS=84045

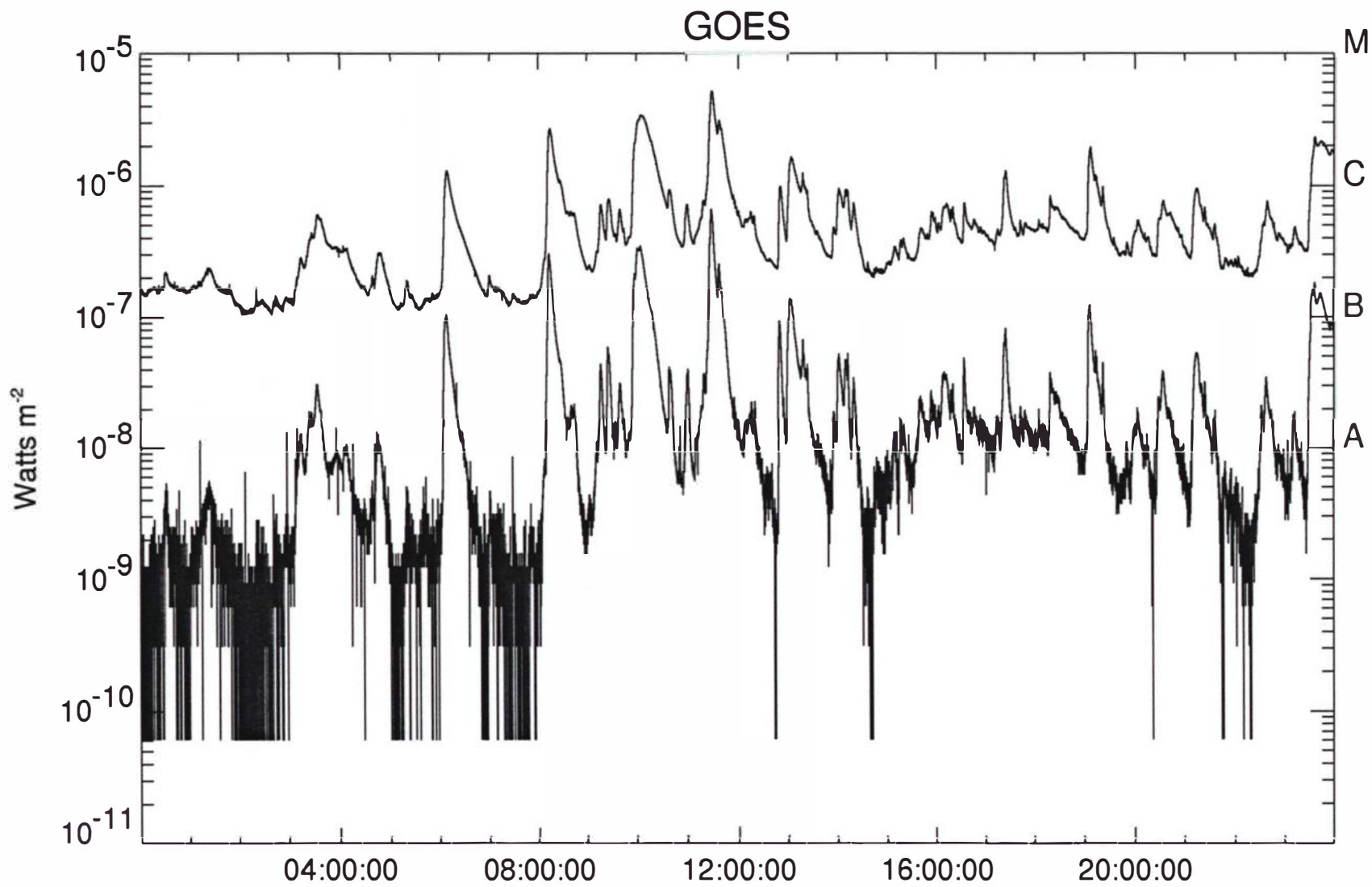
TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL: N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT



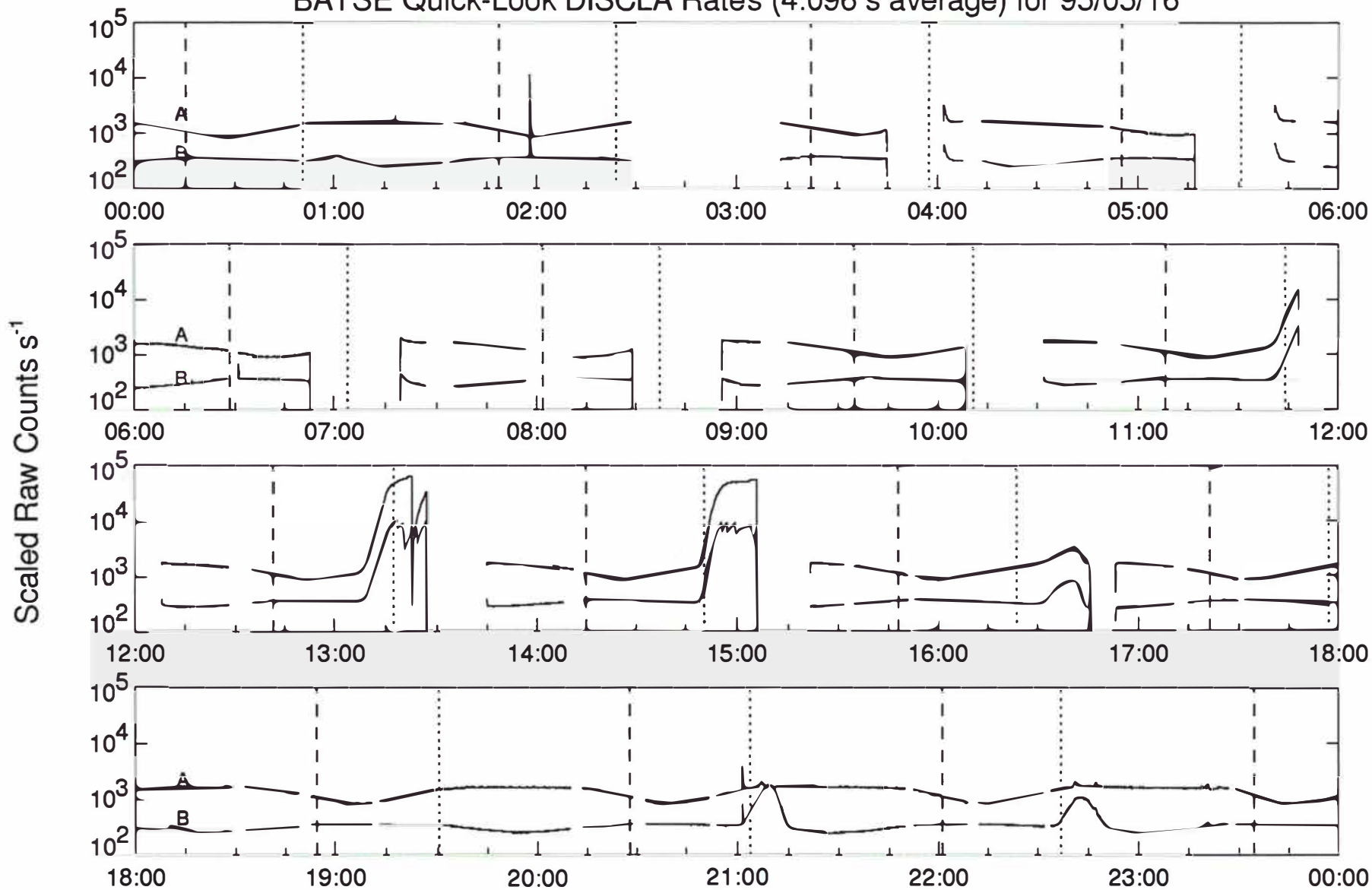
Data Start: 95/05/16, 0000:01

Plot created: 95/05/18, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/16



Current Time: 95/05/18, 0529 EDT

A: Channel 0 Most Sunward LAD

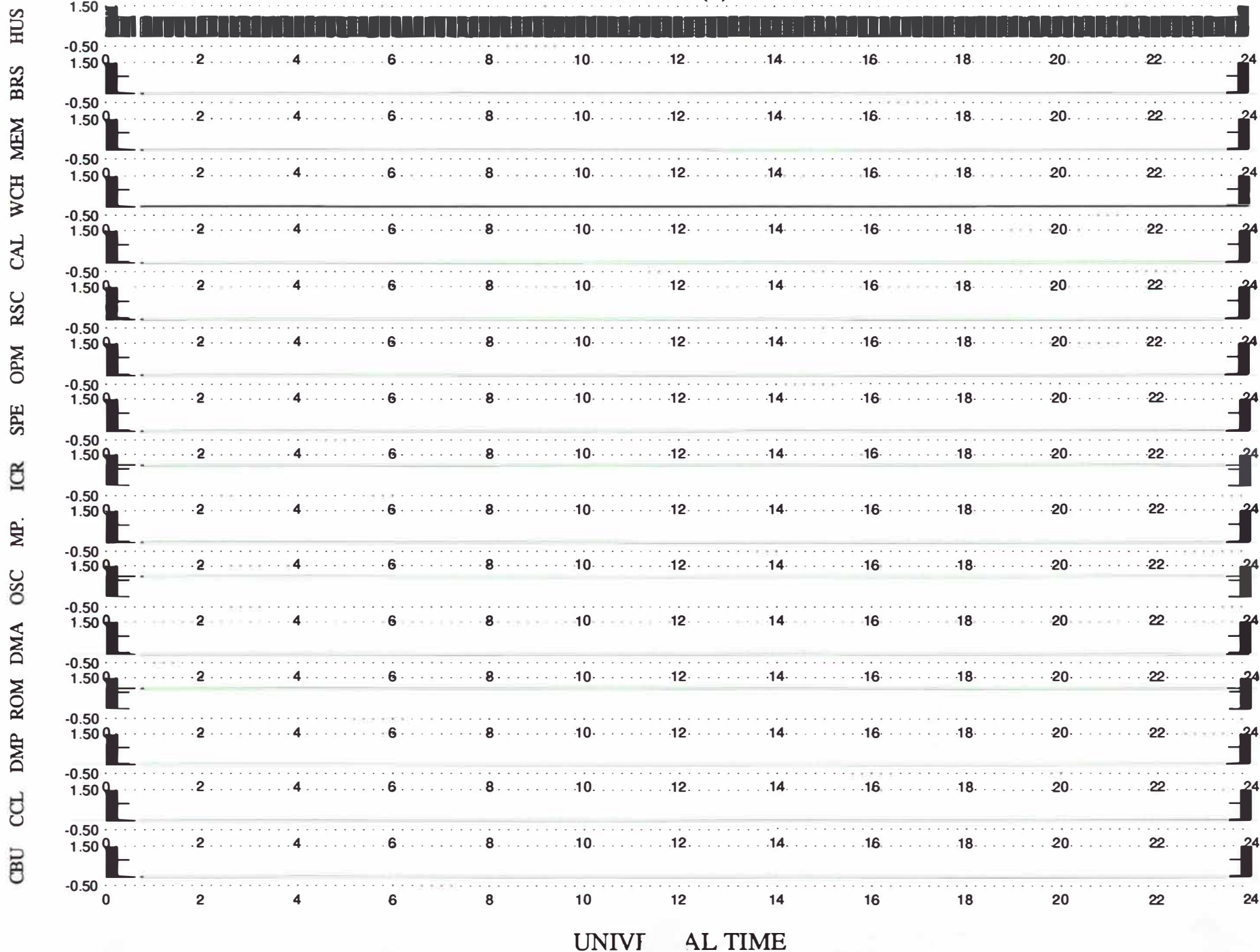
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

HUS MODES EDR day 136, year 1995 to day 136, year 1995
NO BURST (3)

11/21/95

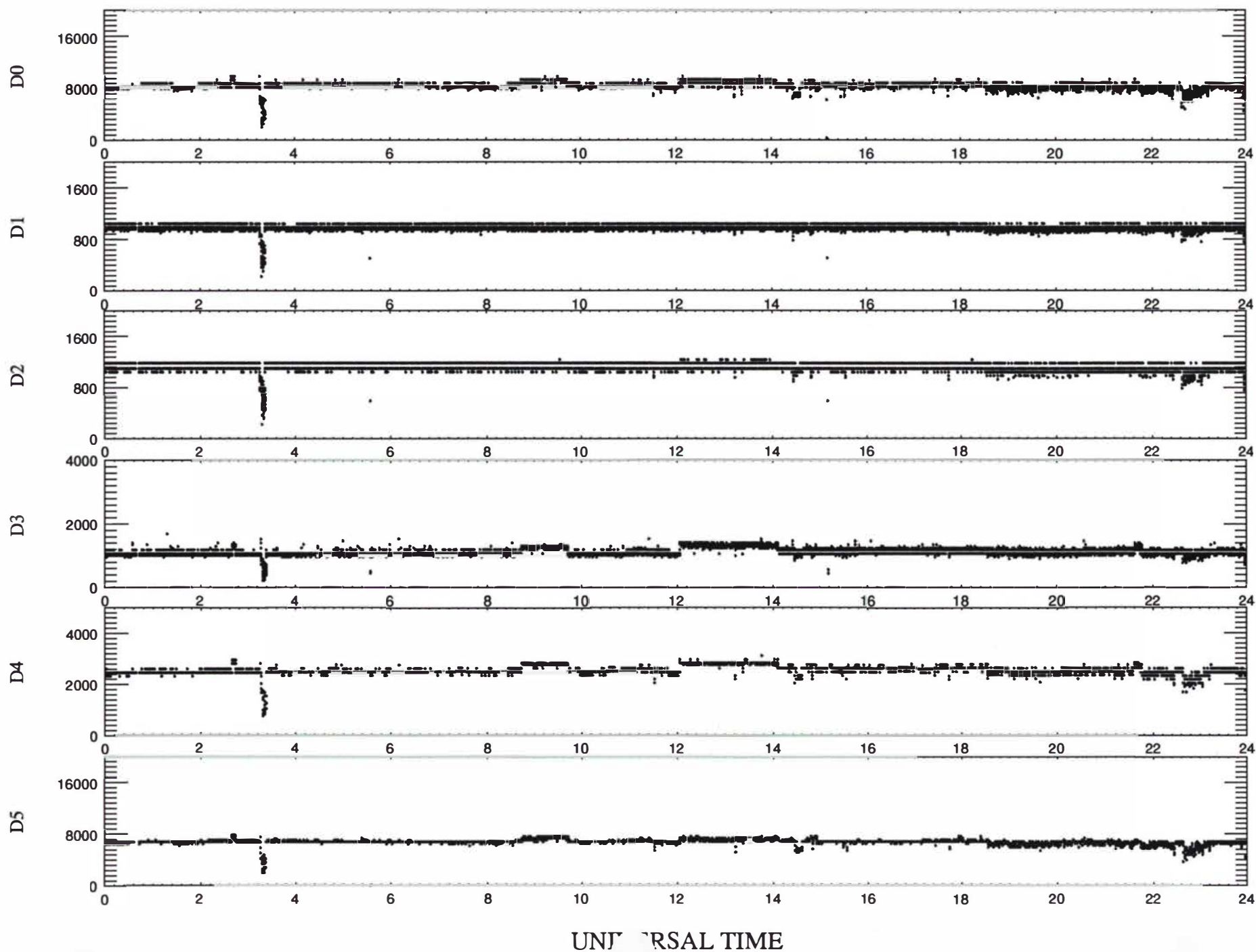


HUS 2A, MODE 1, NOT AVERAGED EDR day 136, year 1995 to day 136, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIVERSAL TIME



From HAGEDON@ssl.msfc.nasa.gov Fri May 19 08:28 PDT 1995
Date: Fri, 19 May 1995 10:28:07 -0500 (CDT)
From: HAGEDON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3577

TIME: TJD=9854 SECONDS=03512

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@ssl.msfc.nasa.gov Fri May 19 08:31 PDT 1995
Date: Fri, 19 May 1995 10:31:17 -0500 (CDT)
From: HAGEDON@ssl.msfc.nasa.gov
To: burst@compel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3578

TIME: TJD=9854 SECONDS=06496

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@ssl.msfc.nasa.gov Fri May 19 08:35 PDT 1995
Date: Fri, 19 May 1995 10:35:19 -0500 (CDT)
From: HAGEDON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3579

TIME: TJD=9854 SECONDS=17896

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From HAGEDON@fender.msfc.nasa.gov Fri May 19 09:39 PDT 1995
Date: Fri, 19 May 1995 11:39:33 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3580

BATSEARCH PROGRAM

NO

BATSE BURST # 3580
EVENT OF 1995 MAY 17 DAY OF YEAR=137
EVENT CROSSING TIME AT BATSE : 39376. S. OR 10:56:16.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 21.000 -47.000
BATSE PEAK COUNTING RATE: 2800 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 17/ 5/ 95 IS:
RA= 4.916 DEC= 37.983 DIST= 2.057 AU
BATSE-ULYSSES DISTANCE = 307688881. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 93.81 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -68.16 SECS.
CROSSING TIME AT ULYSSES IS 39308. S. OR 10:55:07 +/- 226.76 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 17/ 5/ 95 IS:
RA= 149.060 DEC= 14.356 DIST= 1.288 AU
MARS-BATSE DISTANCE = 192745312. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 53.94 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 378.46 SECS.
CROSSING TIME AT MARS IS 39754. S. OR 11:02:34 +/- 95.98 SECONDS

BATSE BURST TRIGGER

NO.: 3580

TIME: TJD=9854 SECONDS=39376

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=69 AZIMUTH=106 ERROR= DEGREES

COMMENTS:

BURST. SINGLE PULSE. DUR.~35 SEC. WEAKLY VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3580	950517	9854	39376	2800	021	-47	35

19 / 5 / 95

ULYSSES RT

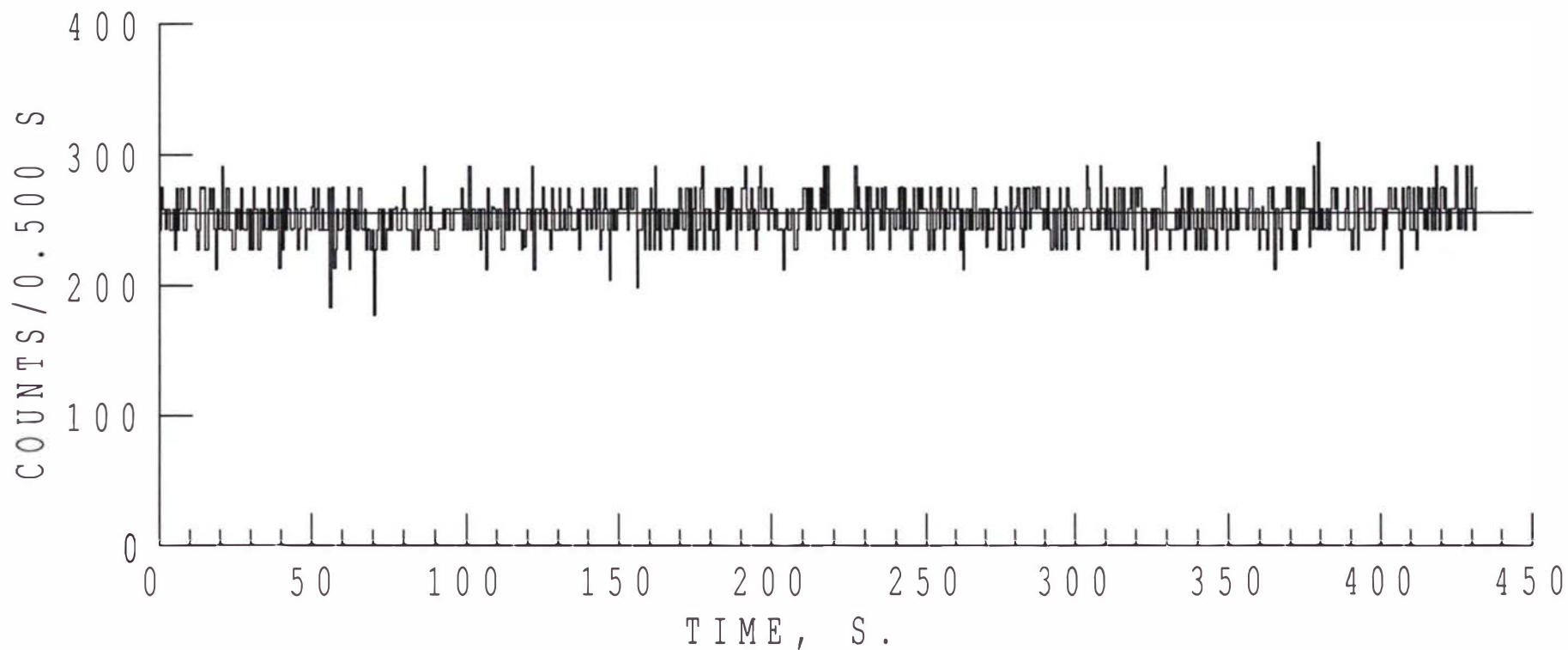
17 / 5 / 95 39096.125 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From HAGEDON@ssl.msfc.nasa.gov Fri May 19 08:40 PDT 1995
Date: Fri, 19 May 1995 10:40:19 -0500 (CDT)
From: HAGEDON@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,
 "15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
 "CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3581

TIME: TJD=9854 SECONDS=79082

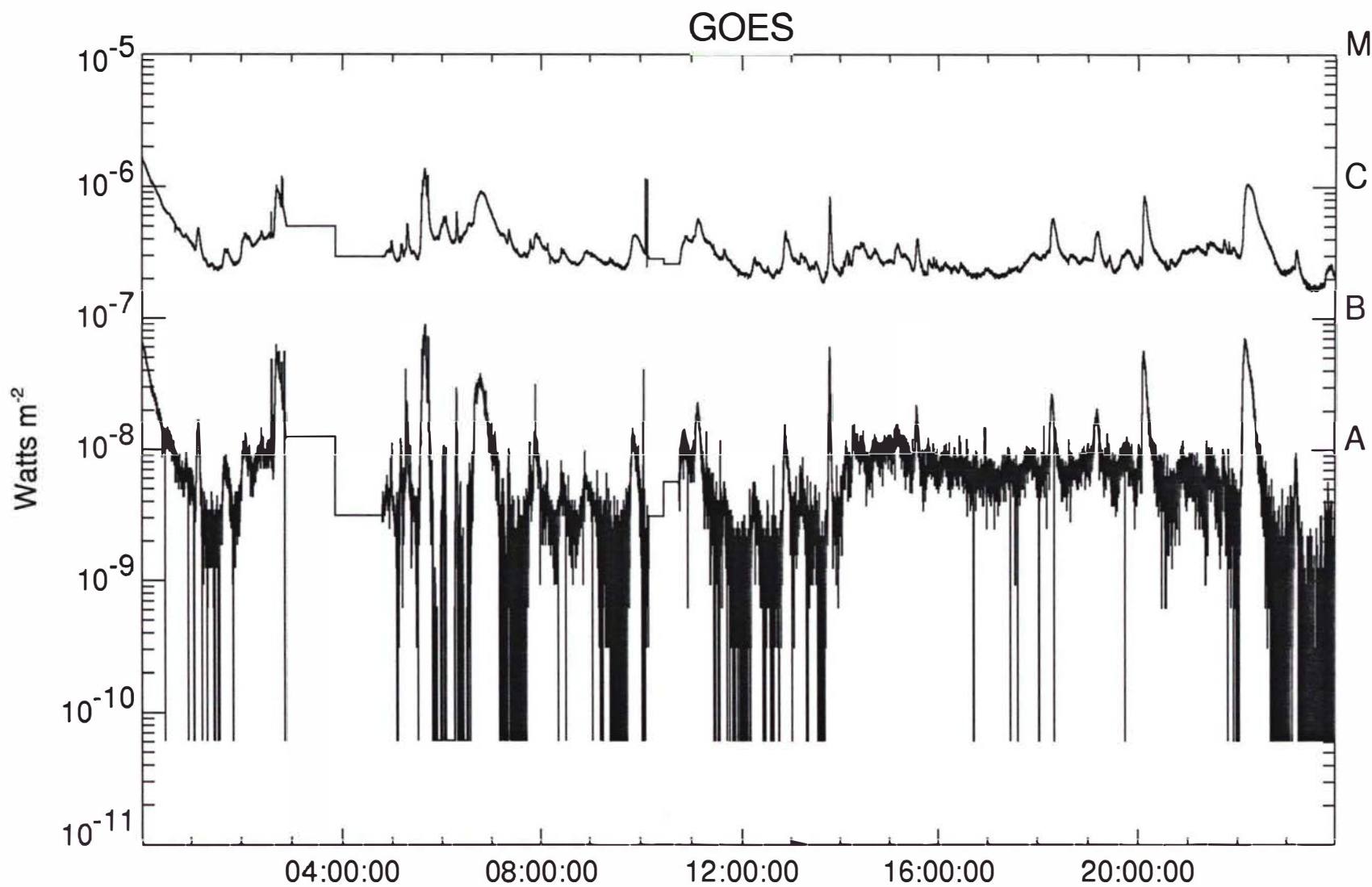
TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.



Data Start: 95/05/17, 0000:02

Plot created: 95/05/19, 0529

Channel

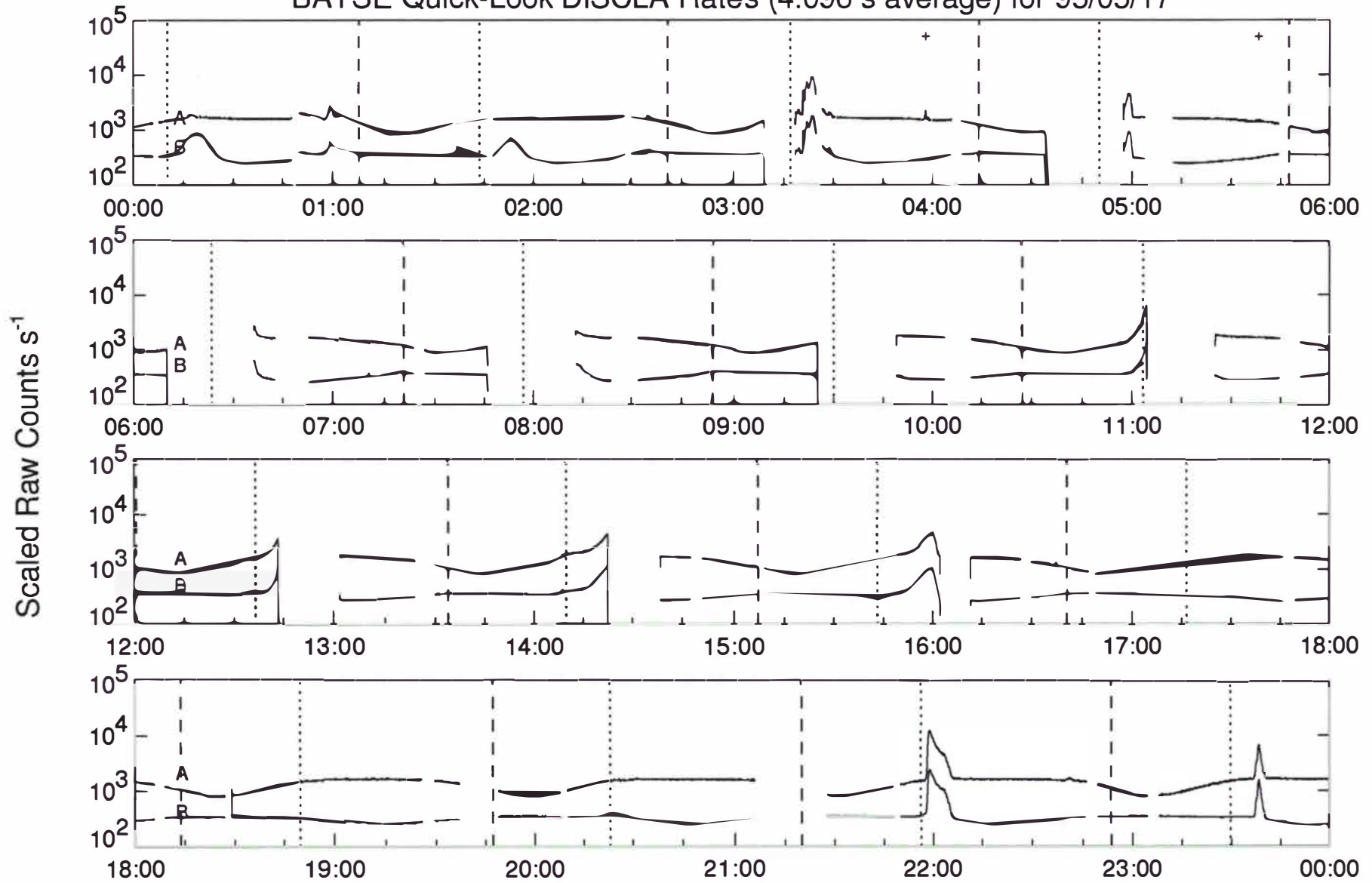
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/17

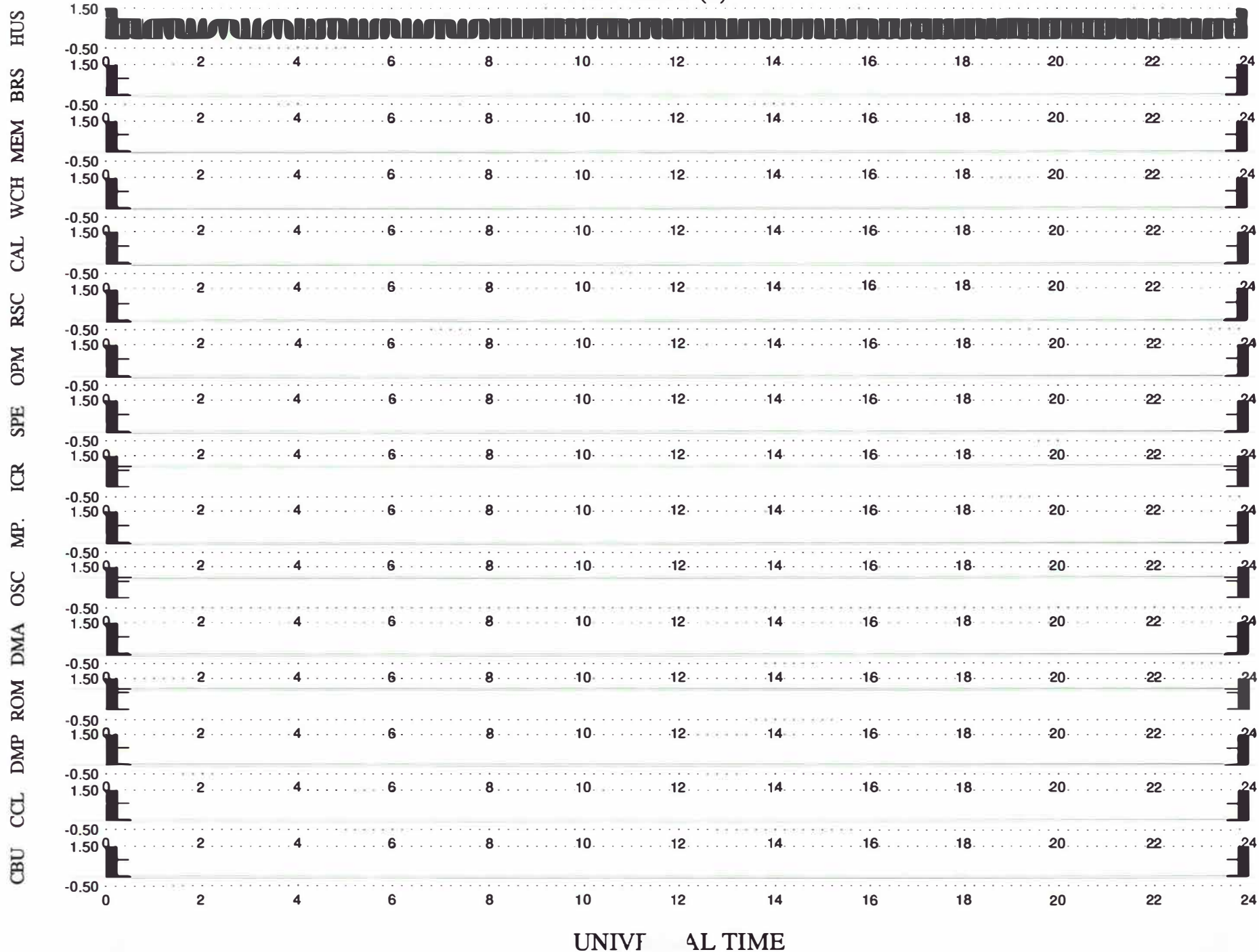


Current Time: 95/05/19, 0530 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

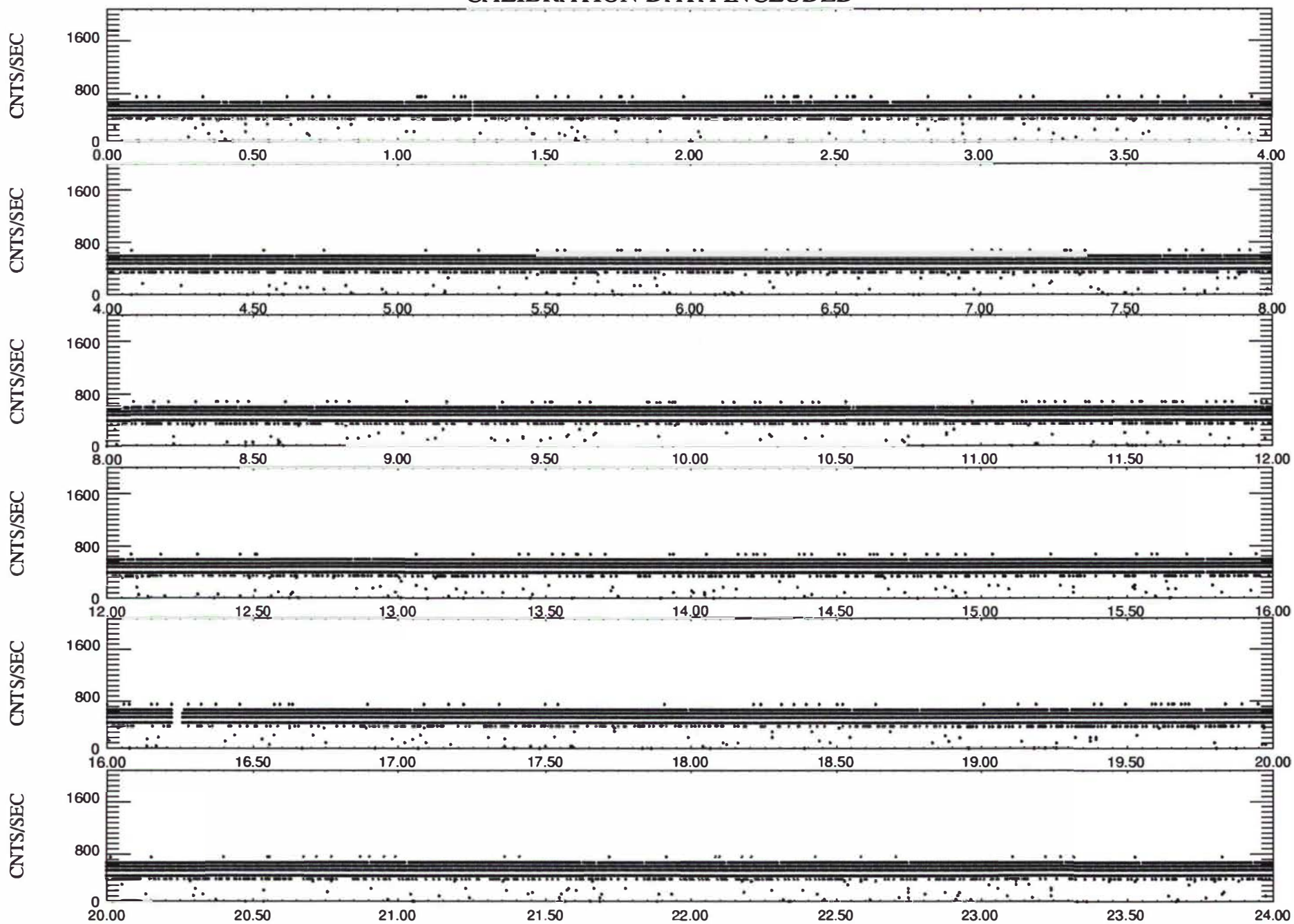
* Solar Burst Trigger
 + Solar Flare

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 137, year 1995 to day 137, year 1995
CALIBRATION DATA INCLUDED

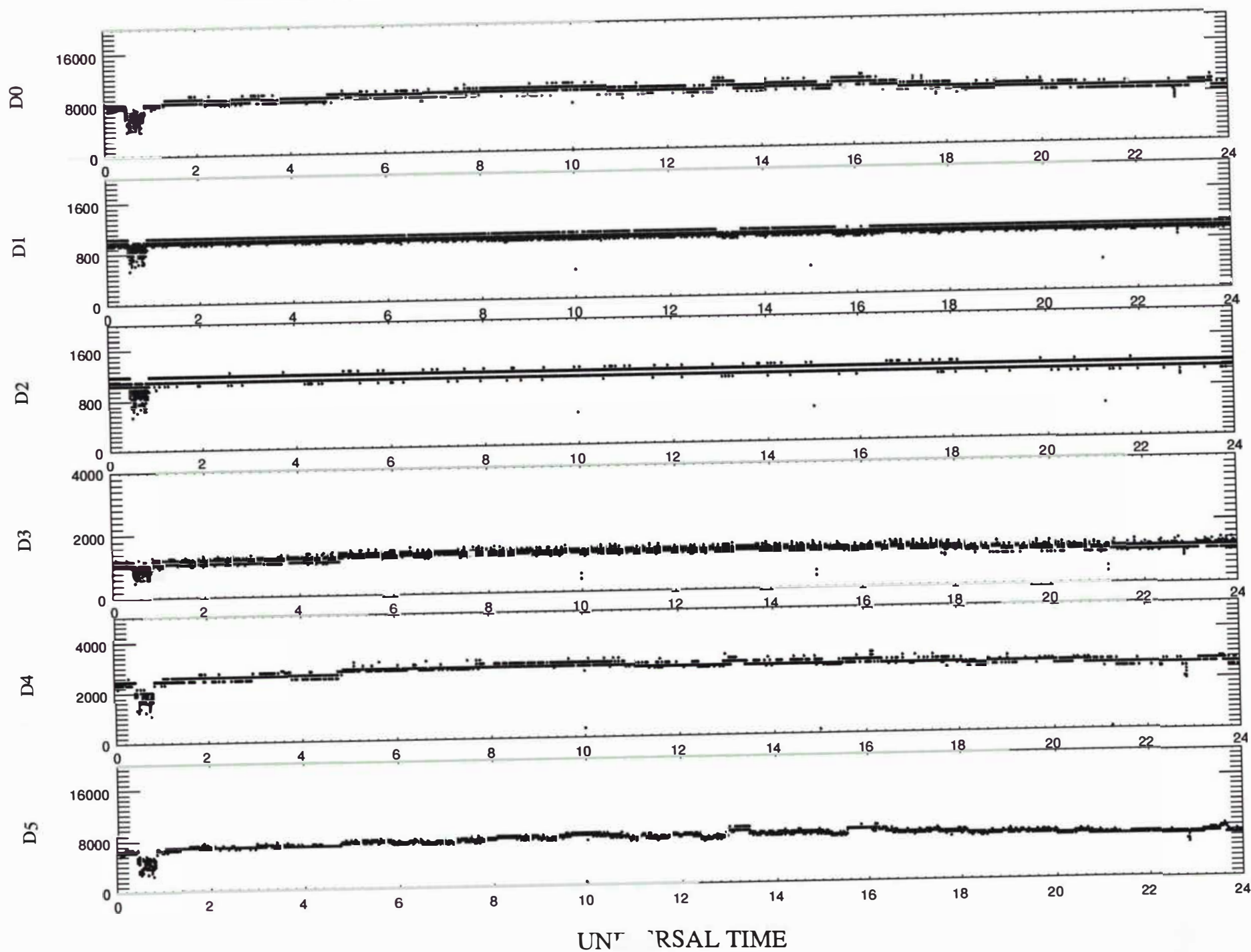
11/21/95



UNIV AL TIME

HUS 2B COUNTS / SEC QEDR day 137, year 1995 to day 137, year 1995

5/19/95



From RICHARDSON@ssl.msfc.nasa.gov Fri May 19 10:42 PDT 1995
Date: Fri, 19 May 1995 12:42:07 -0500 (CDT)
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3582

TIME: TJD=9855 SECONDS=989

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

From RICHARDSON@ssl.msfc.nasa.gov Fri May 19 10:44 PDT 1995
Date: Fri, 19 May 1995 12:44:40 -0500 (CDT)
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3583

TIME: TJD=9855 SECONDS=9587

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

From RICHARDSON@ssl.msfc.nasa.gov Fri May 19 10:47 PDT 1995
Date: Fri, 19 May 1995 12:46:59 -0500 (CDT)
From: RICHARDSON@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV,
"CASS09::BAND"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3584

TIME: TJD=9855 SECONDS=37242

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:Y

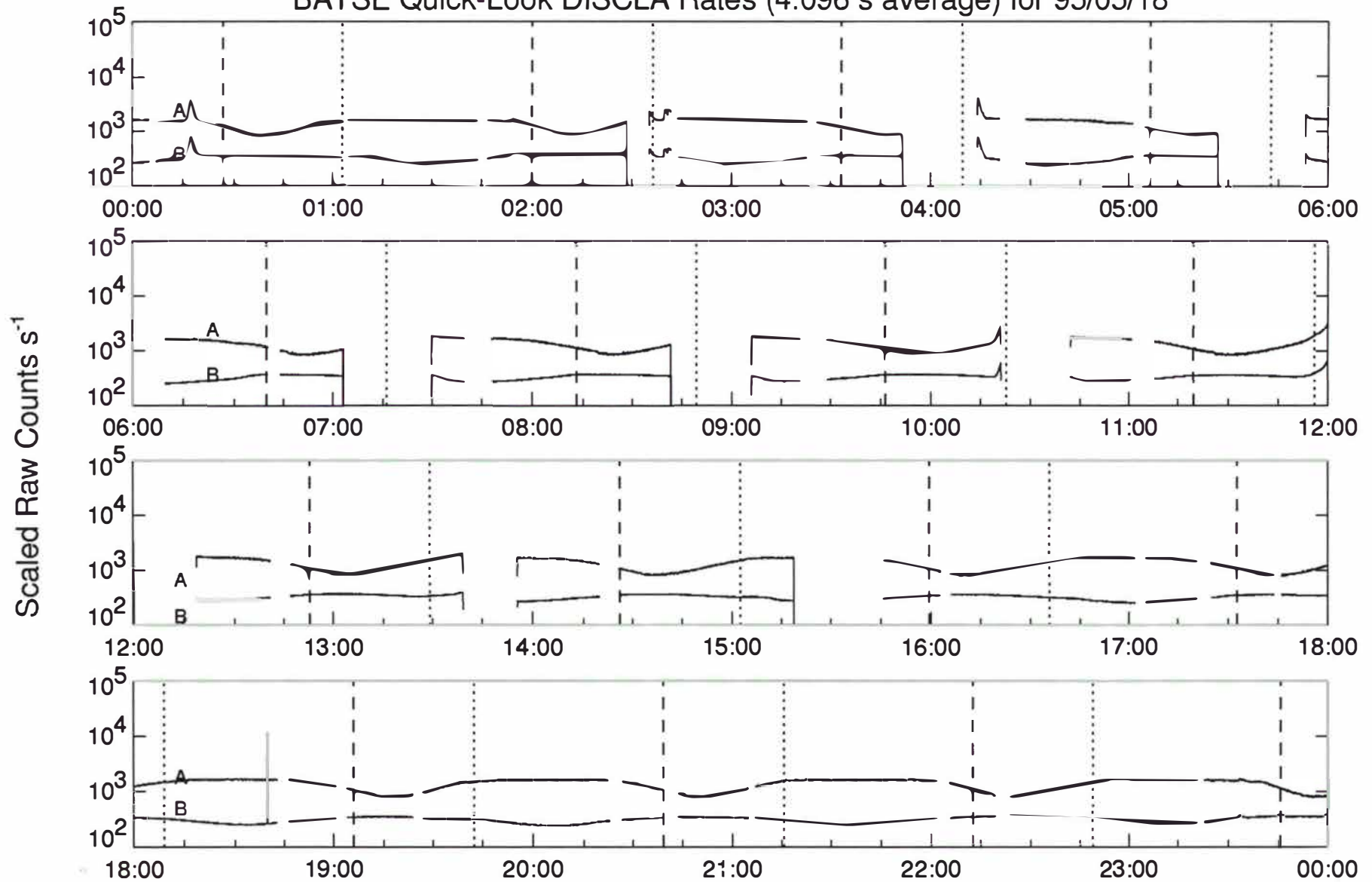
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/18



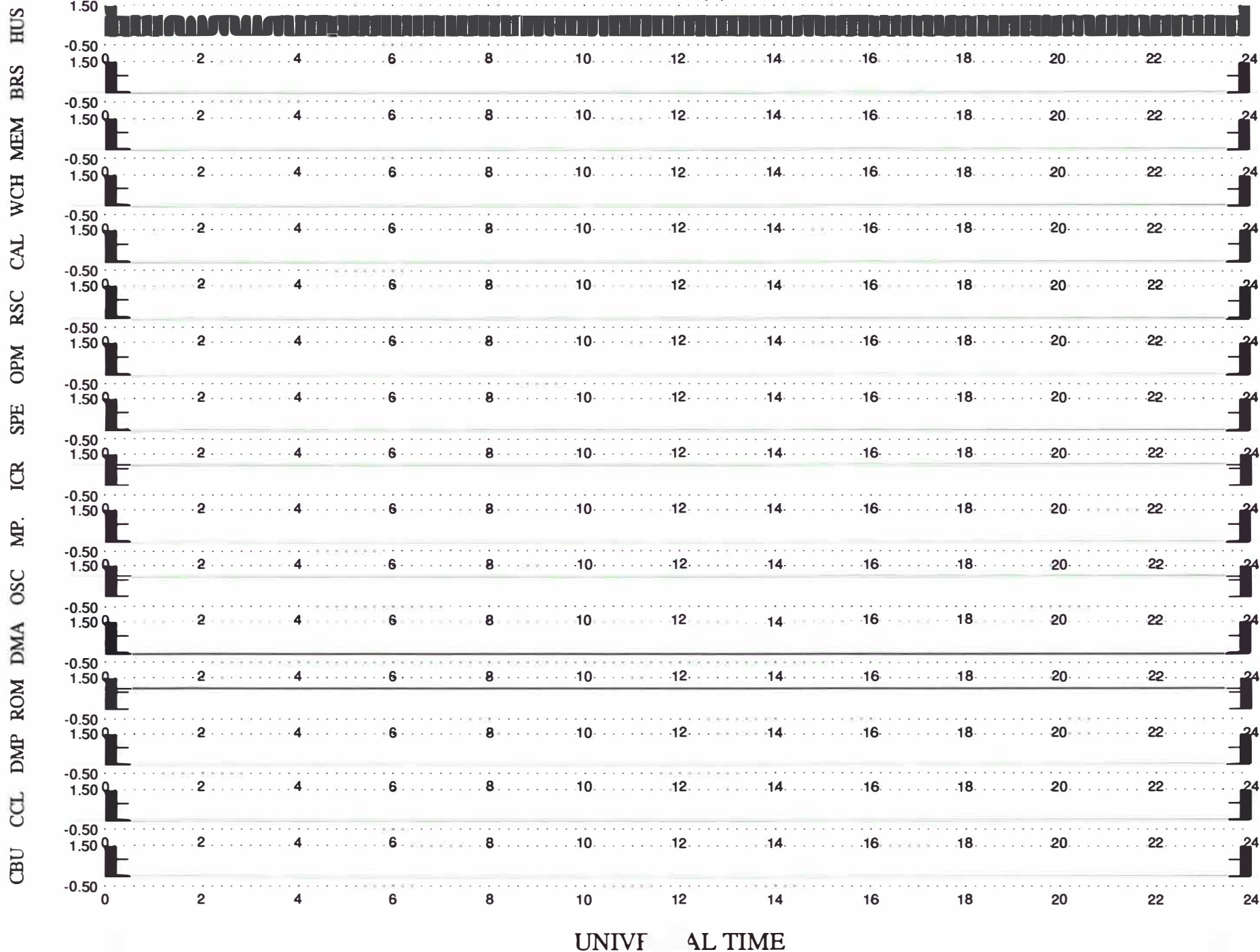
Current Time: 95/05/20, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

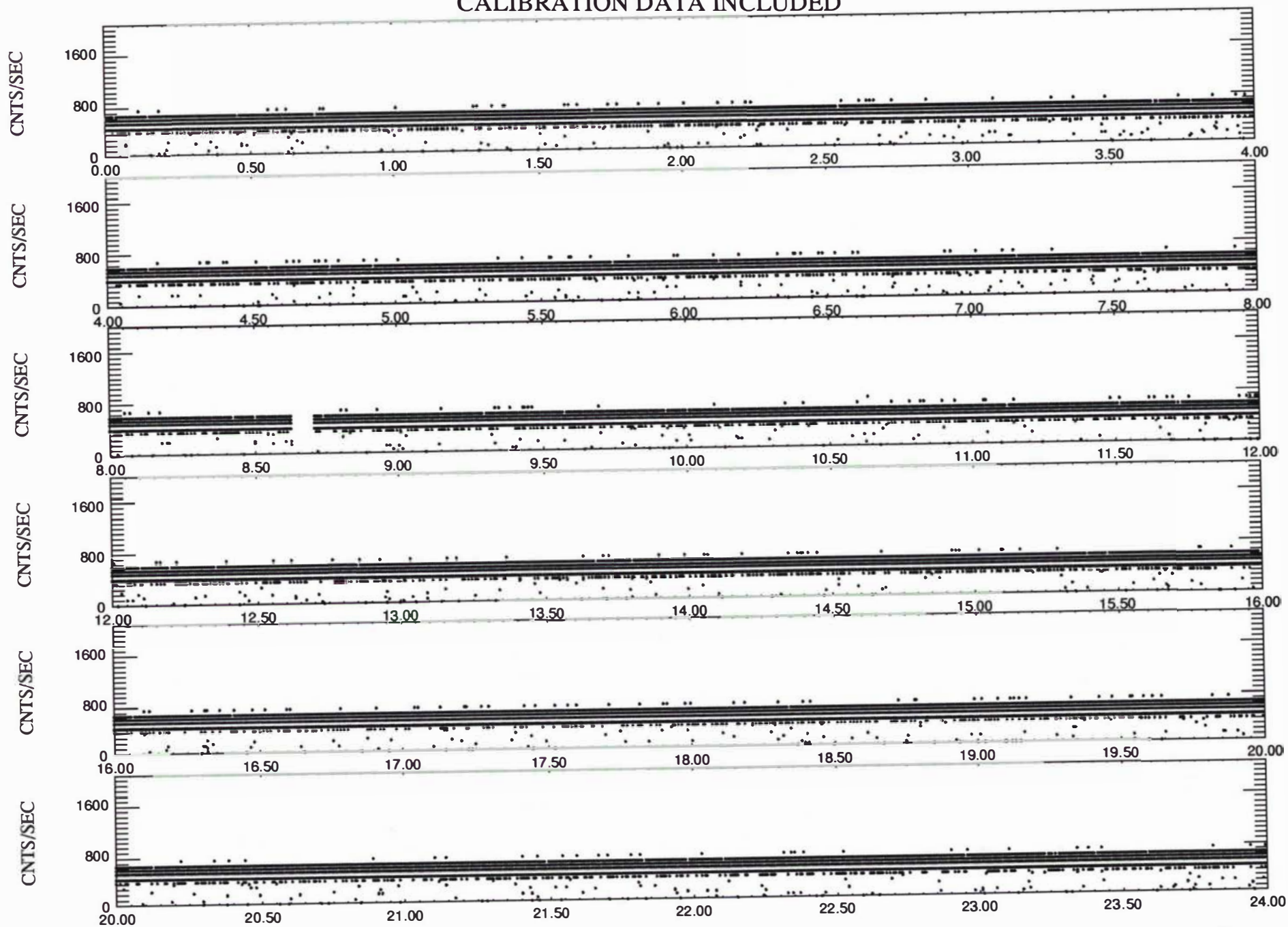
HUS MODES EDR day 138, year 1995 to day 138, year 1995
NO BURST (3)

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 138, year 1995 to day 138, year 1995
CALIBRATION DATA INCLUDED

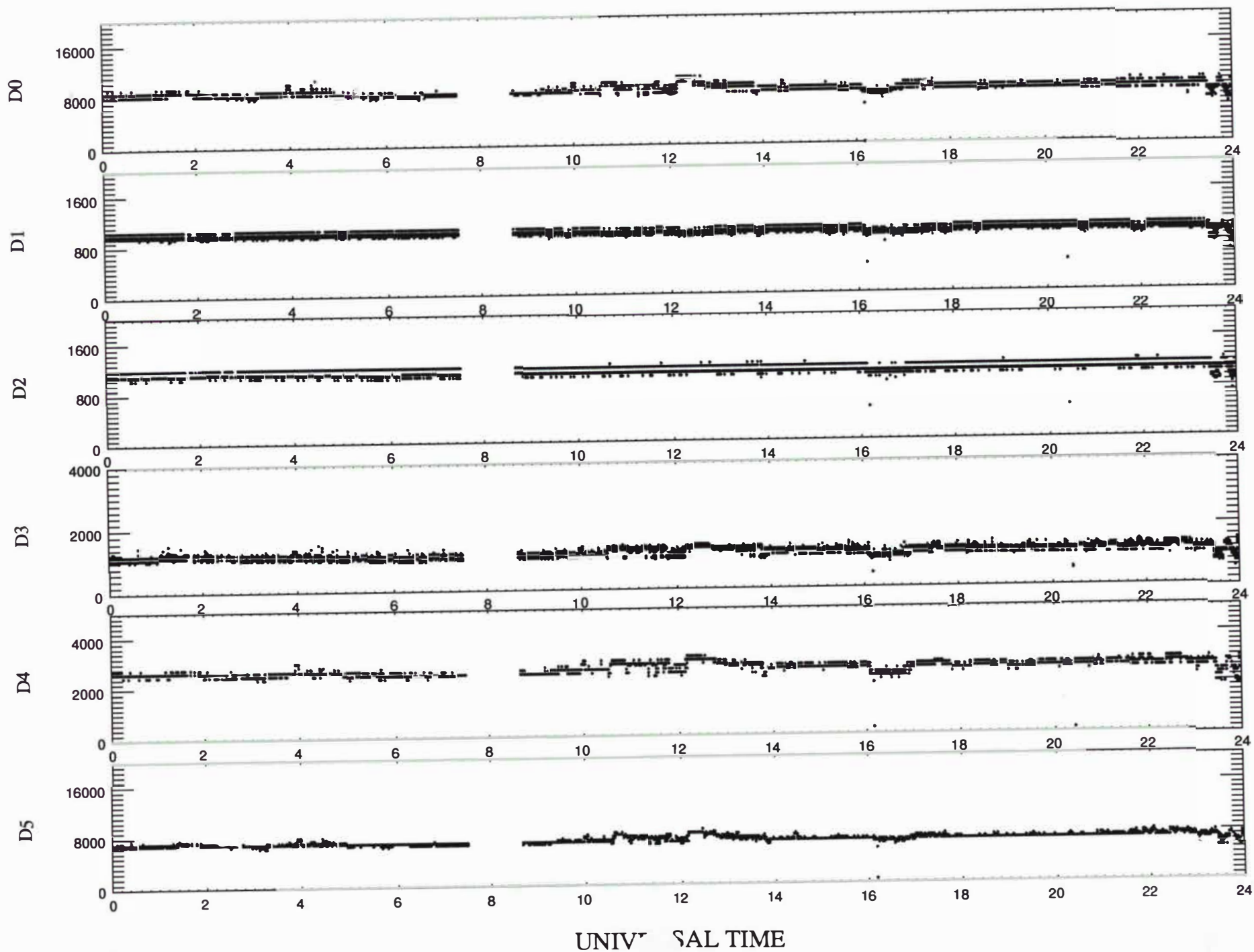
11/21/95



UNIVF AL TIME

HUS 2B COUNTS / SEC QEDR day 138, year 1995 to day 138, year 1995

5/23/95



From HAGEDON@fender.msfc.nasa.gov Mon May 22 09:21 PDT 1995
Date: Mon, 22 May 1995 11:21:46 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3585

BATSEARCH PROGRAM

BATSE BURST # 3585
EVENT OF 1995 MAY 19 DAY OF YEAR=139
EVENT CROSSING TIME AT BATSE : 64851. S. OR 18:00:51.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 175.000 42.000
BATSE PEAK COUNTING RATE: 6600 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 19/ 5/ 95 IS:
RA= 5.758 DEC= 39.767 DIST= 2.049 AU
BATSE-ULYSSES DISTANCE = 306550734. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 82.35 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 136.17 SECS.
CROSSING TIME AT ULYSSES IS 64987. S. OR 18:03:07 +/- 228.02 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 19/ 5/ 95 IS:
RA= 149.858 DEC= 14.022 DIST= 1.306 AU
MARS-BATSE DISTANCE = 195318720. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=144.57 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -530.86 SECS.
CROSSING TIME AT MARS IS 64320. S. OR 17:52:00 +/- 57.51 SECONDS

BATSE BURST TRIGGER

NO.: 3585

TIME: TJD=9856 SECONDS=64851

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=94 AZIMUTH=281 ERROR= DEGREES

COMMENTS:

BURST. WEAK SINGLE SPIKE. DUR.~0.4 SEC. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3585	950519	9856	64851	6600	175	+42	.4

23 / 5 / 95

ULYSSES RT

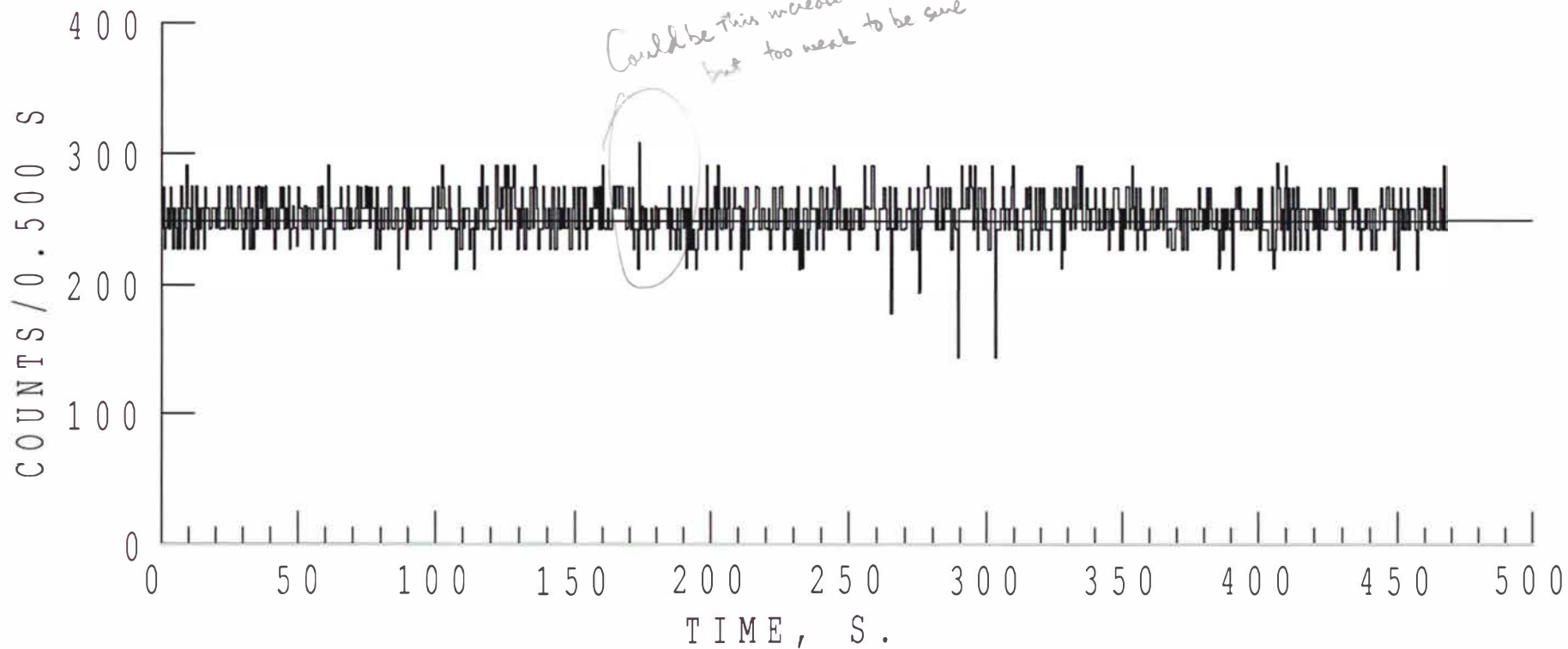
19 / 5 / 95 64764.176 s

0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

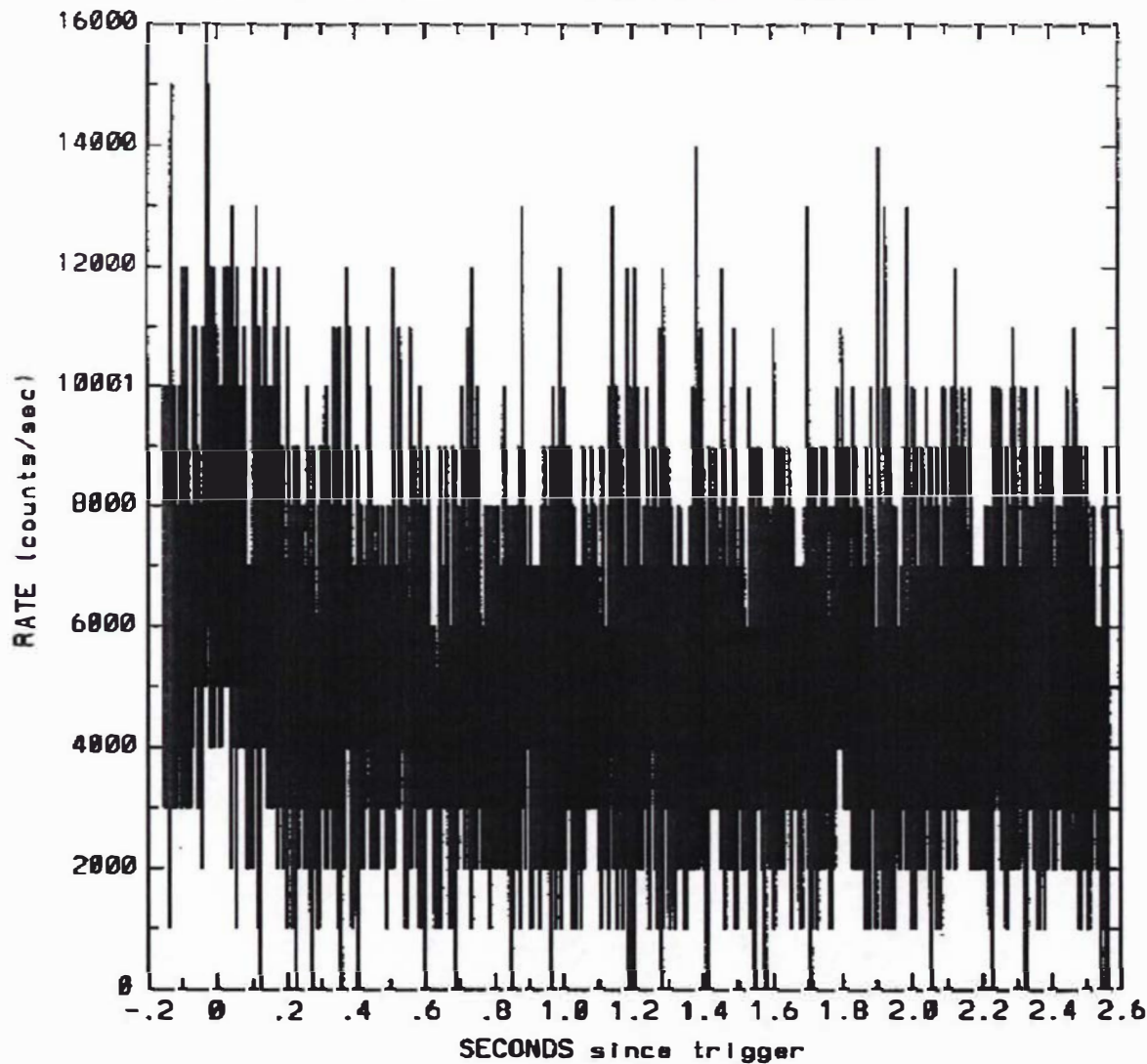
N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



95 05 19

TTE Data for K. Hurley, No. 3585



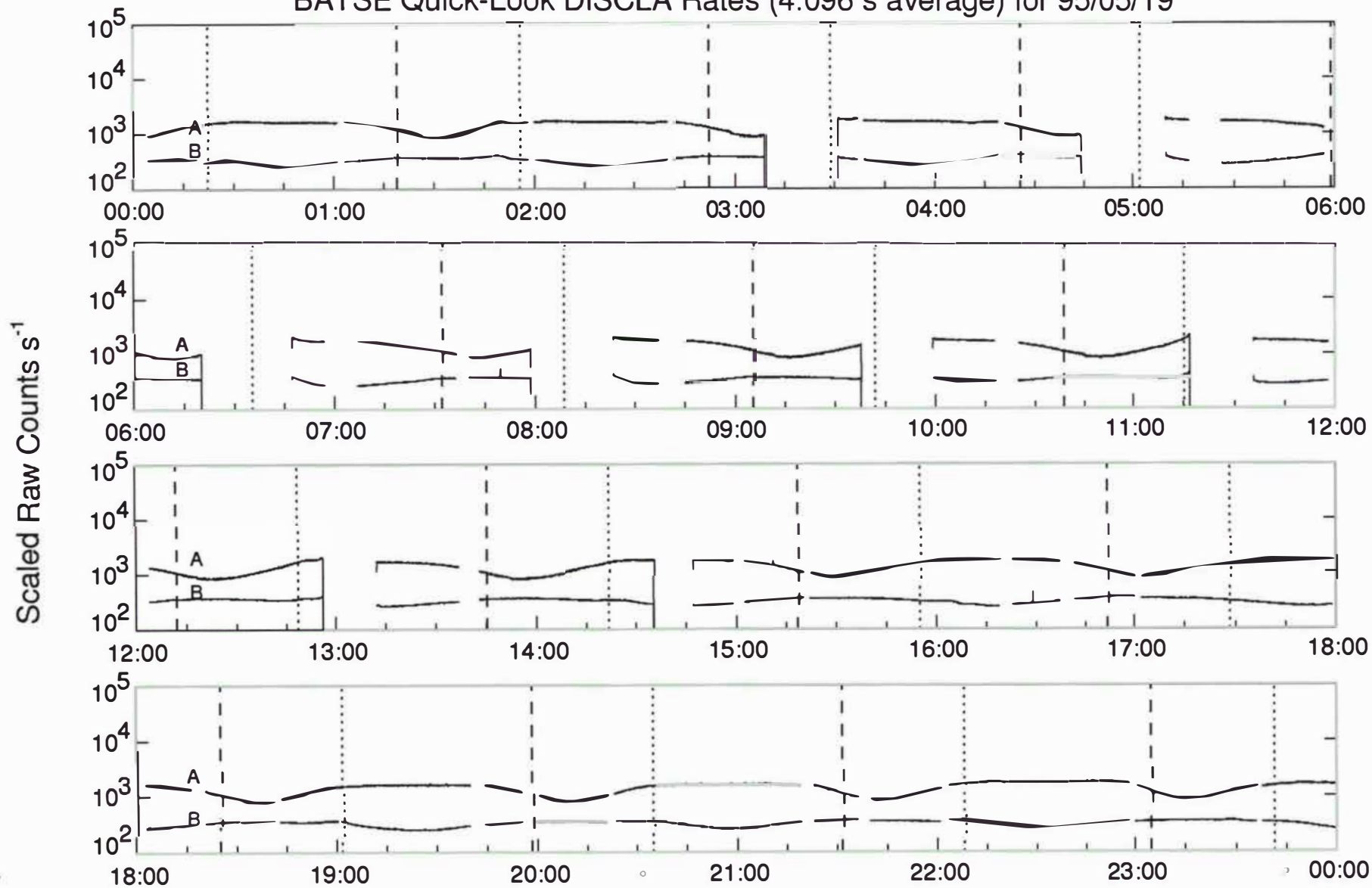
9-JUN-1995 08:32.43

Created by MOPS BD
(Burst Display)
Version 12.25

Trigger # . 3585

Trigger Time:
9856 / 64851.442Burst Data Type:
TTEMultiple Events
[ignored. 38Deadtime
Corrected: NBackground Data
Type: DISCLAMinimum Integ. Time:
8.001000 second(s)Detectors [7..8]:
7---3---Discriminators:
1 1 . 2 1Quality Mask:
BDISP1

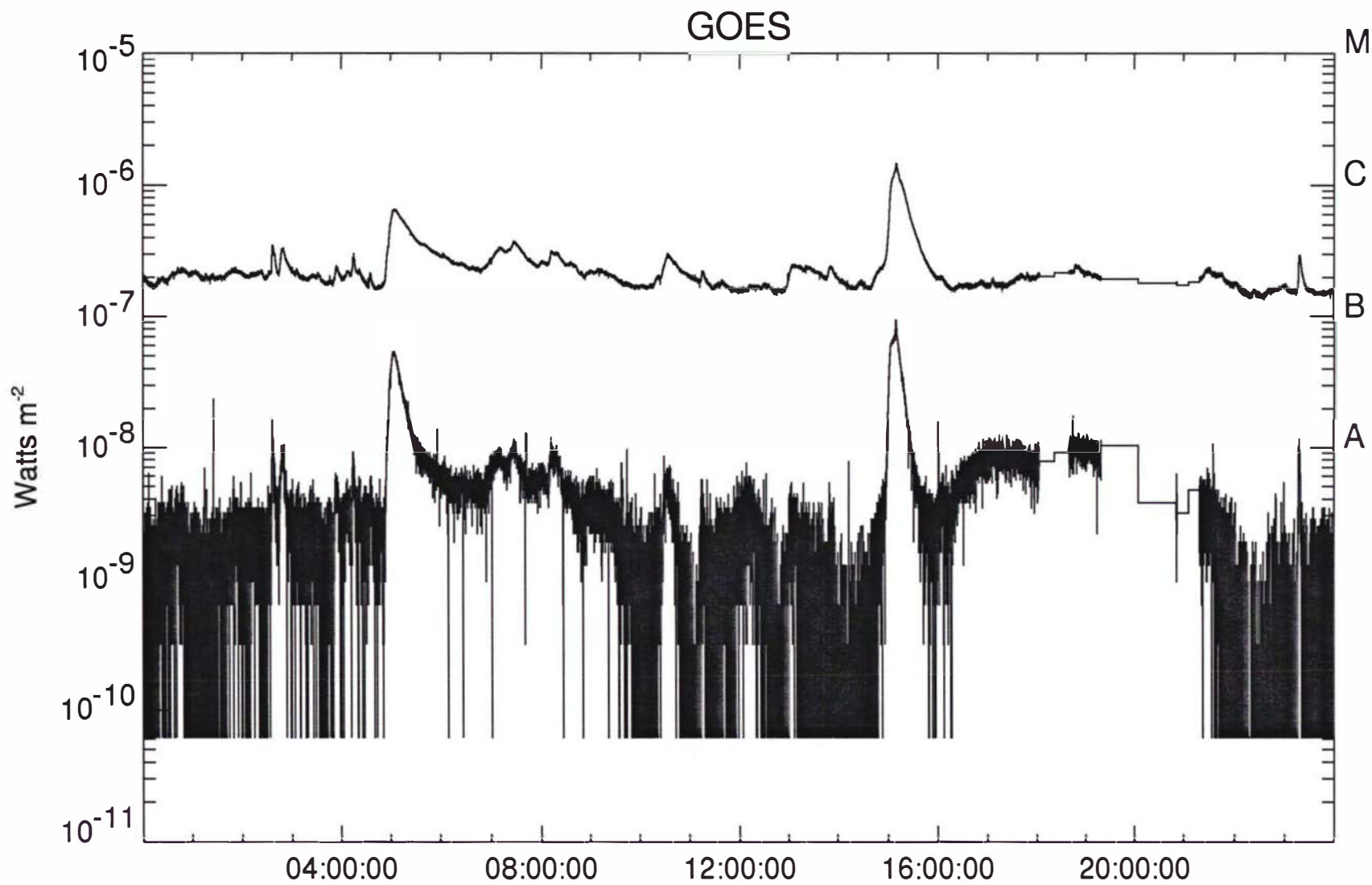
BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/19



Current Time: 95/05/21, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare



Data Start: 95/05/18, 0000:00

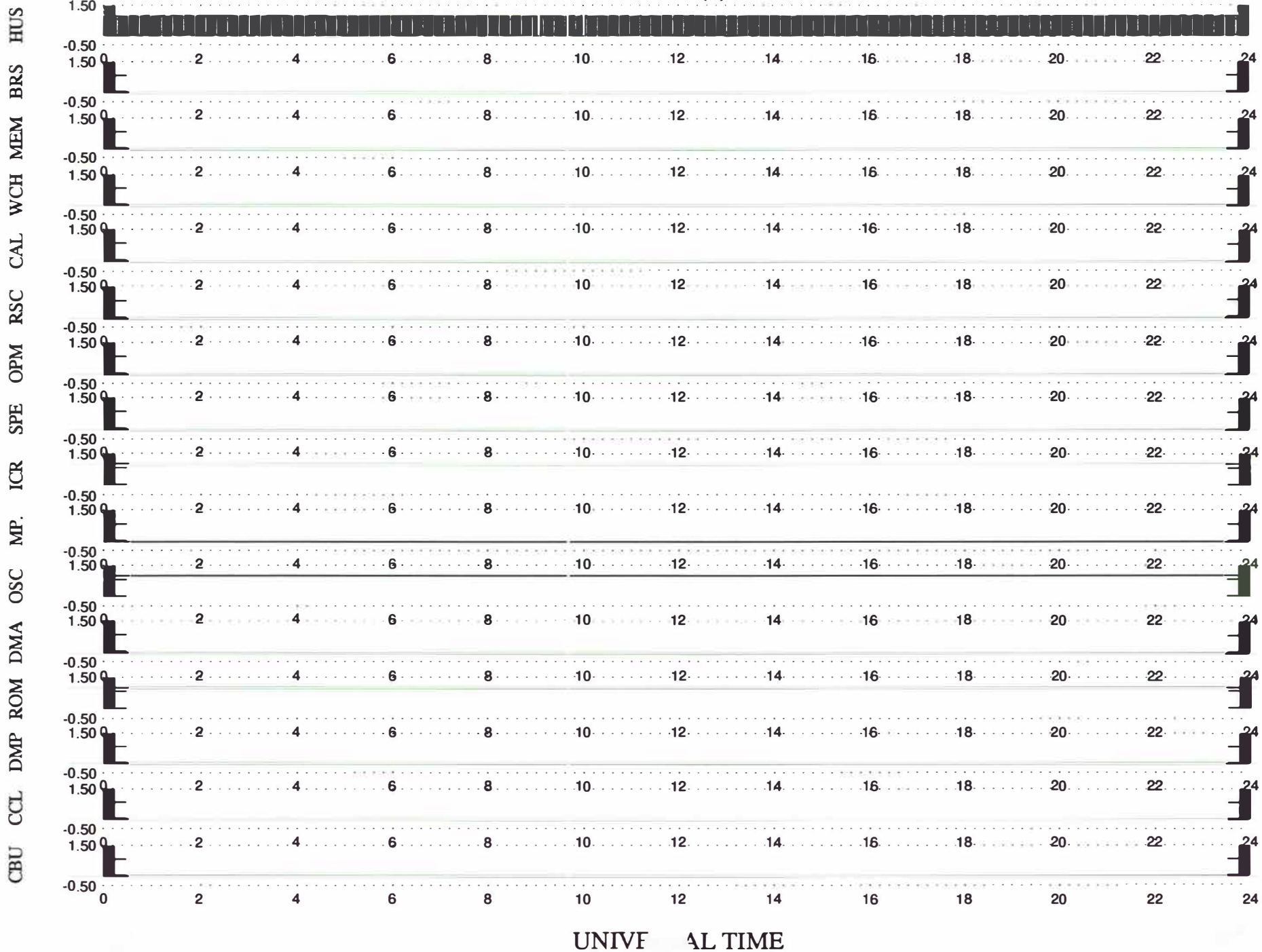
Plot created: 95/05/20, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

HUS MODES EDR day 139, year 1995 to day 139, year 1995
NO BURST (3)

11/21/95

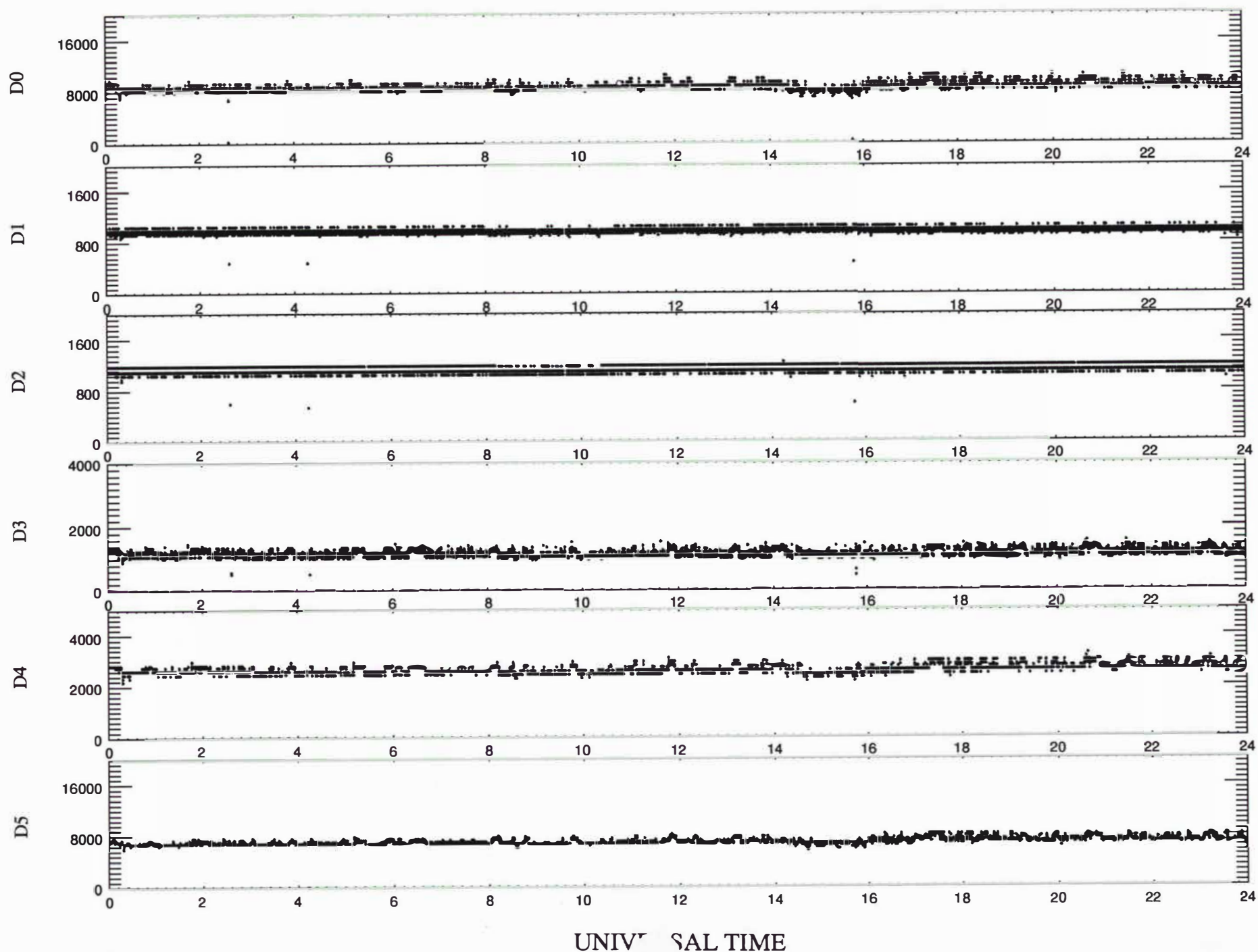


HUS 2A, MODE 1, NOT AVERAGED EDR day 139, year 1995 to day 139, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIVF AL TIME



From HAGEDON@ssl.msfc.nasa.gov Mon May 22 07:10 PDT 1995
Date: Mon, 22 May 1995 9:10:03 -0500 (CDT)
From: HAGEDON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3586

TIME: TJD=9857 SECONDS=10163

TYPE: SAA SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

SAA EXIT.

From HAGEDON@ssl.msfc.nasa.gov Mon May 22 07:13 PDT 1995
Date: Mon, 22 May 1995 9:12:59 -0500 (CDT)
From: HAGEDON@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,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov,
"CASS09::GRUBER"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3587

TIME: TJD=9857 SECONDS=31960

TYPE: SAA SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

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

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

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

Mime-Version: 1.0

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

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

Subject: For Your INFO

Dear Bonnard, Kevin, David, Helmut:

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

- TLC

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

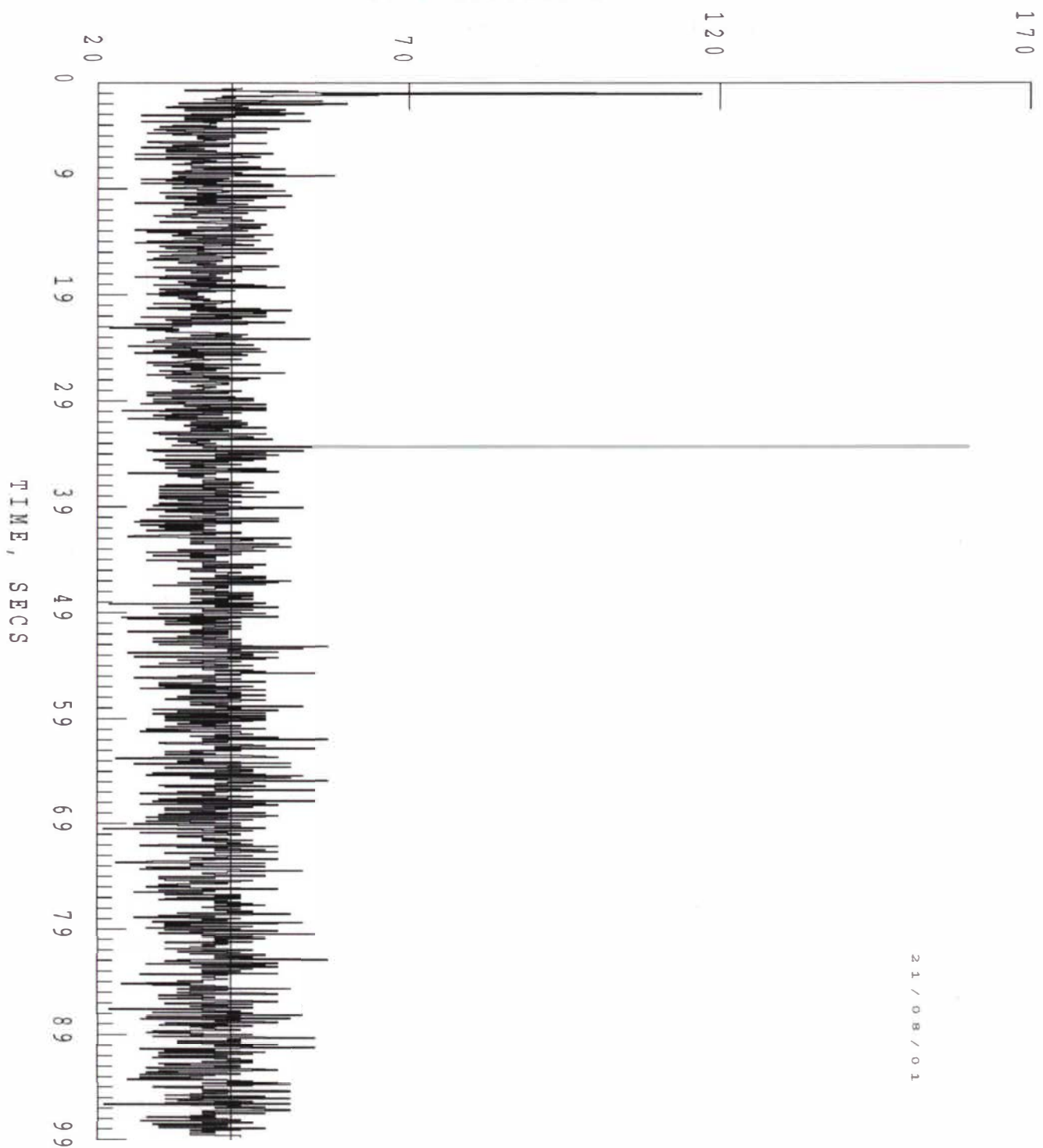
KONUS1

20/05/95

83271.404

50 - 200 keV

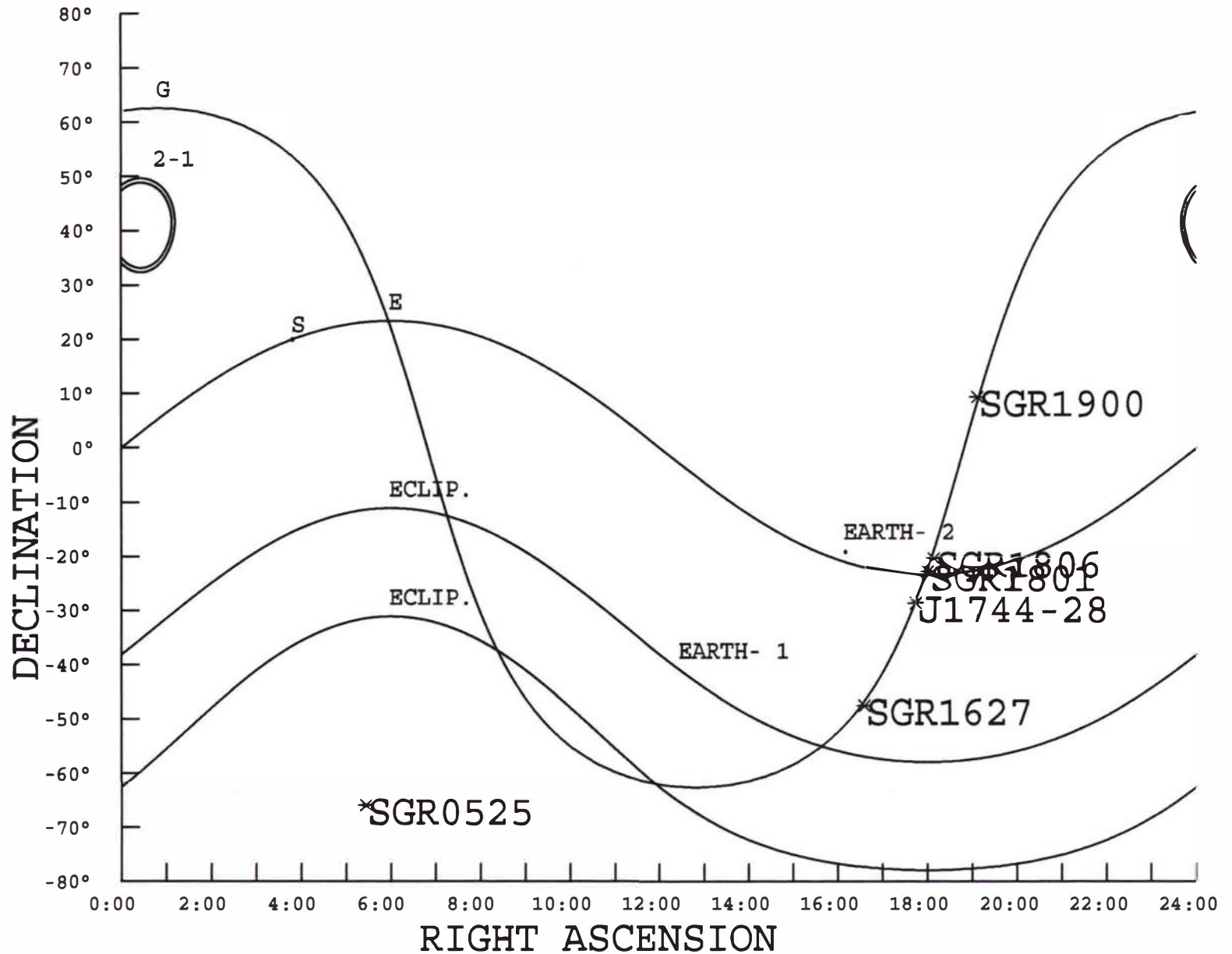
COUNTS/0.064 S

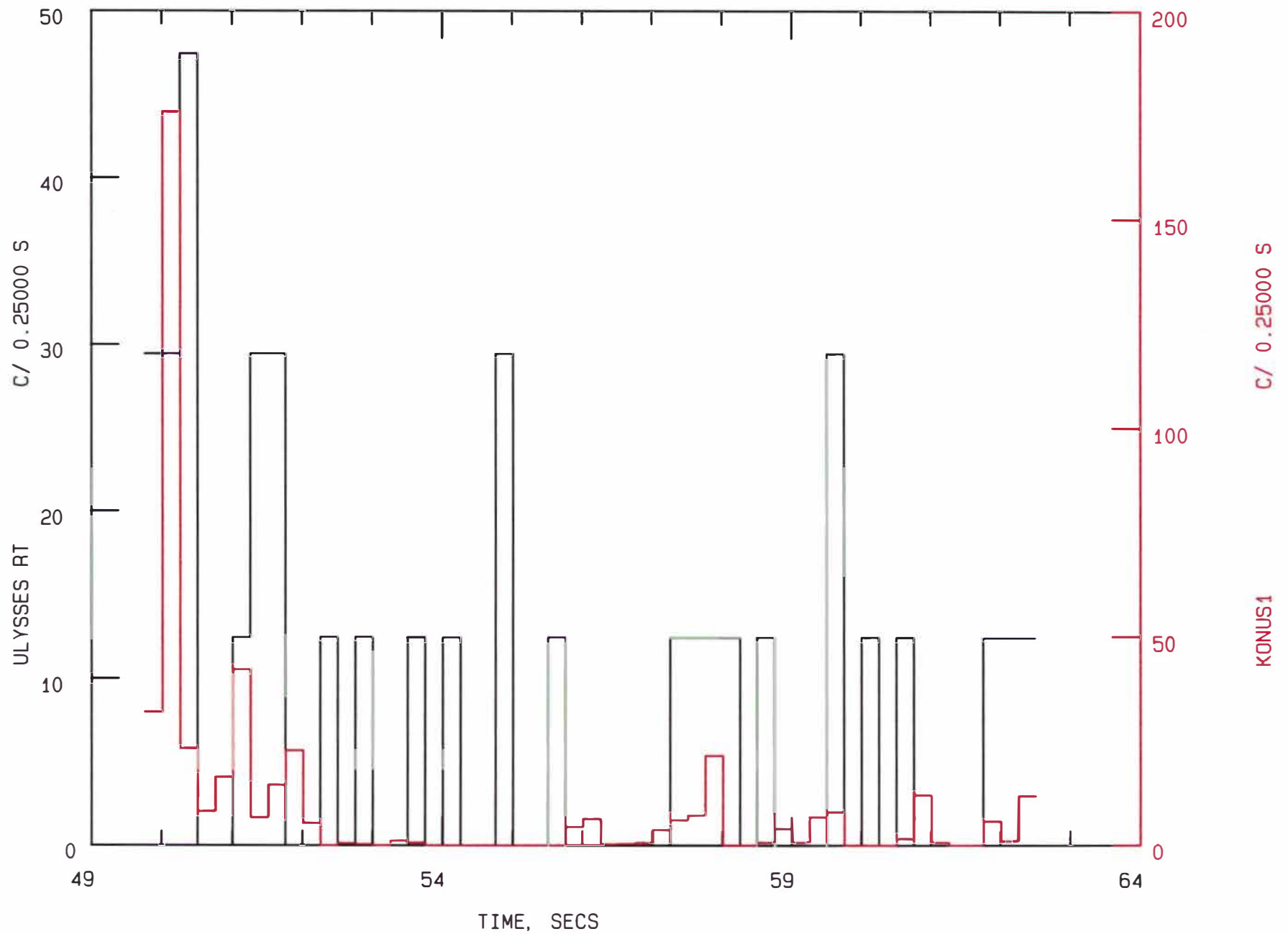


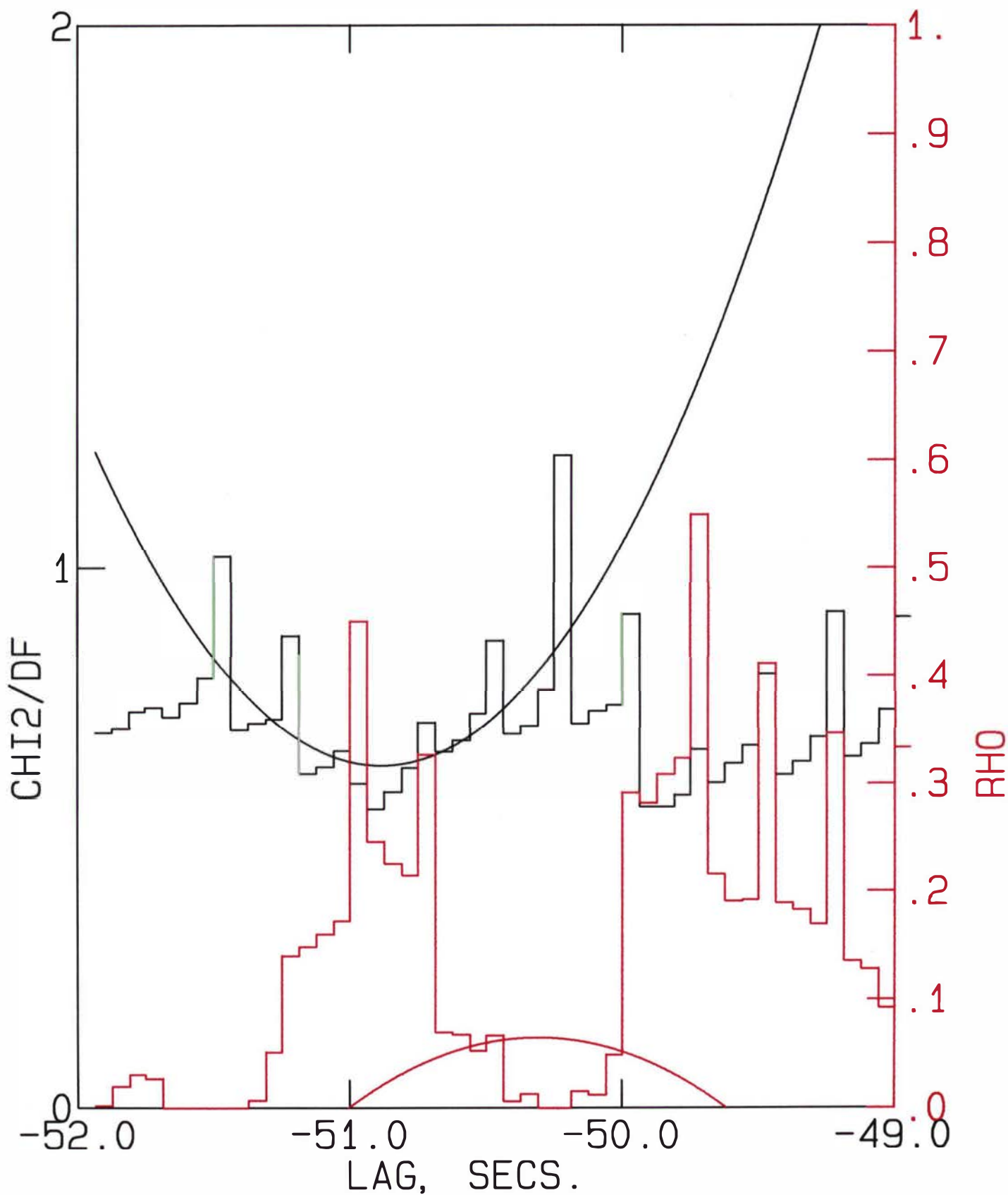
EVENT OF MAY 20, 1995 22:50

7/ 8/ 8

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



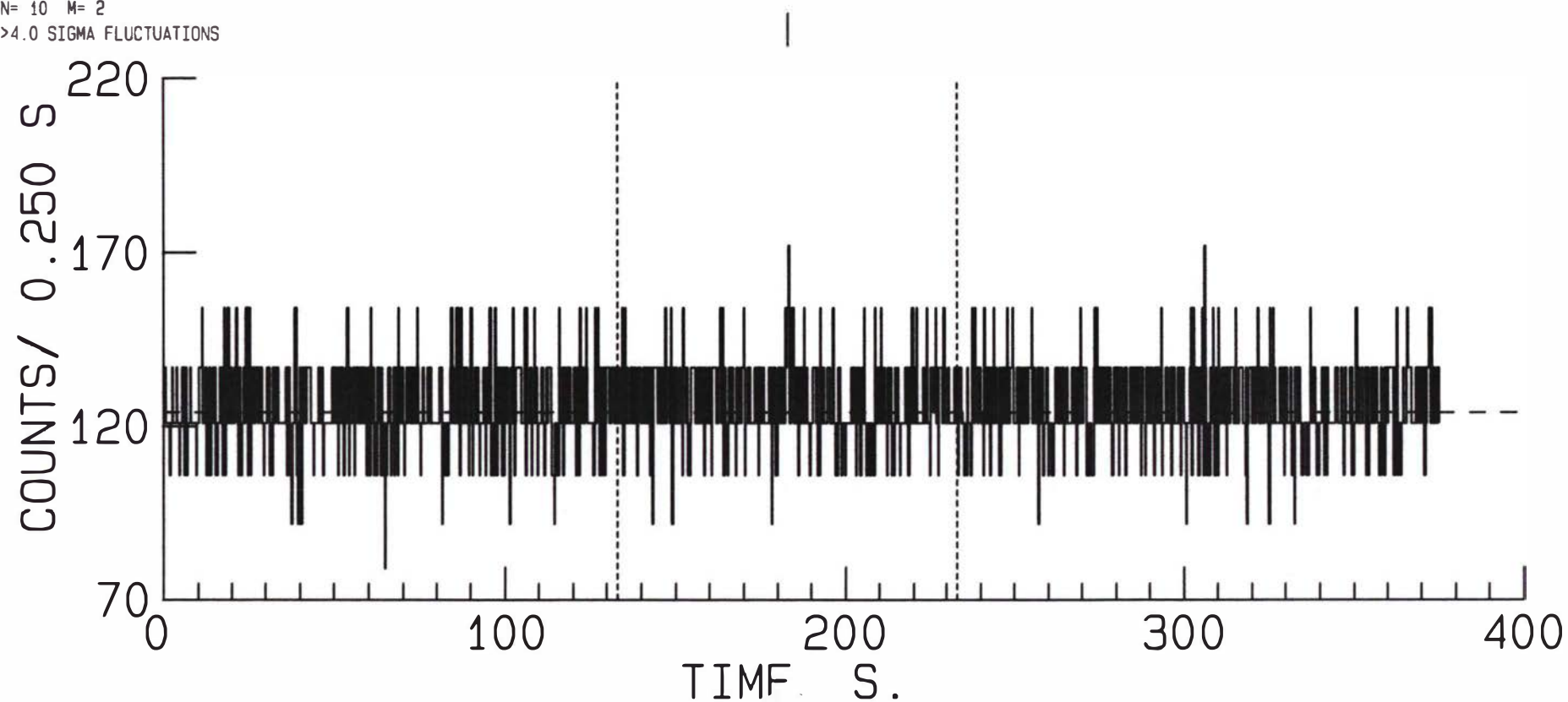




ULYSSES RT
20/ 5/95 82080.156 s
21- 141 keV

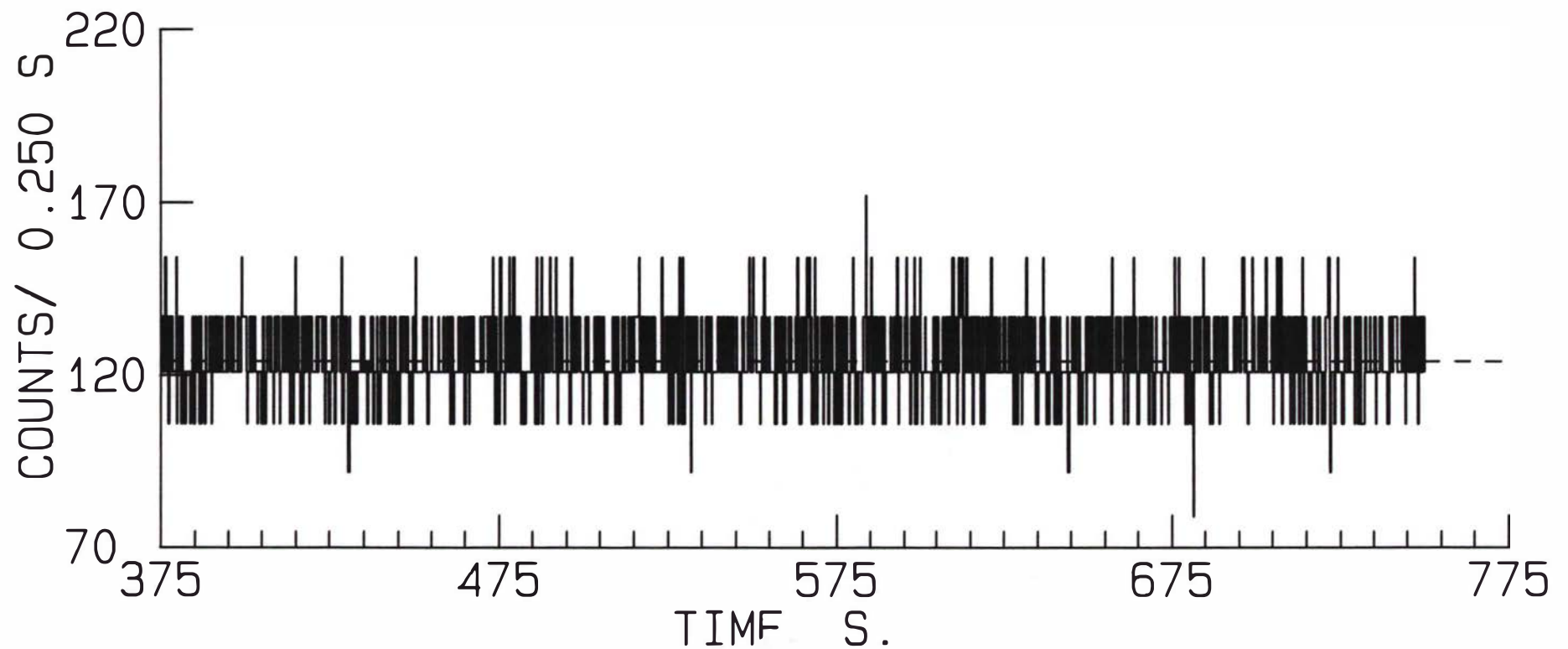
7 / 8 / 8

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



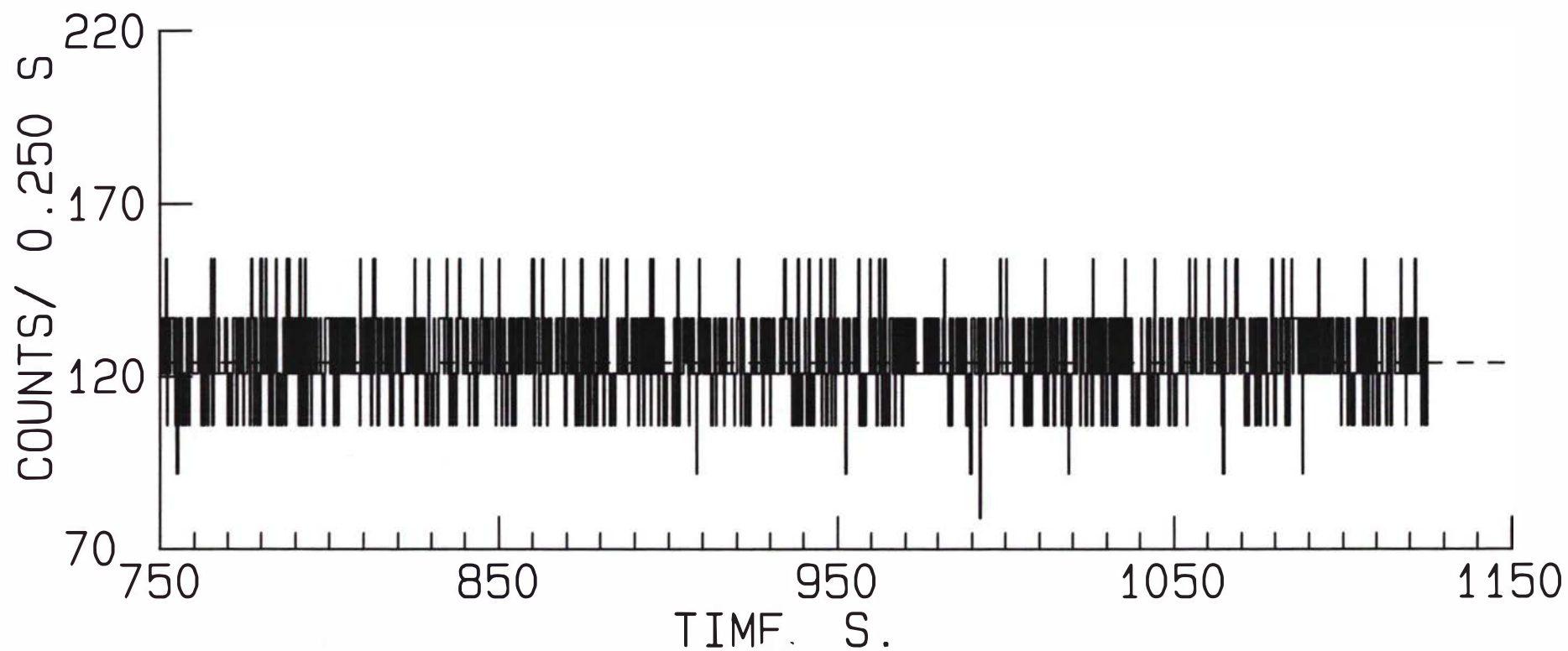
ULYSSES RT
20/ 5/95 82080.156 s
21- 141 keV

7 / 8 / 8



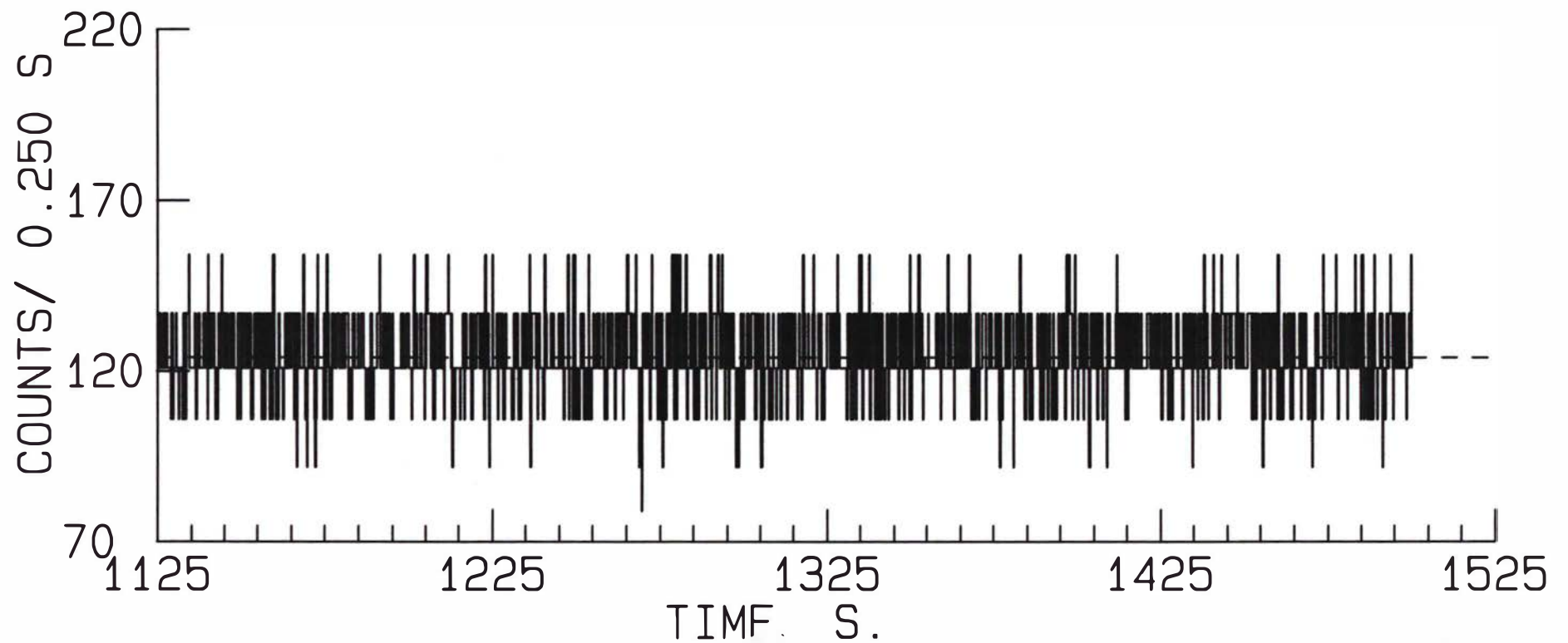
ULYSSES RT
20/ 5/95 82080.156 s
21- 141 keV

7 / 8 / 8



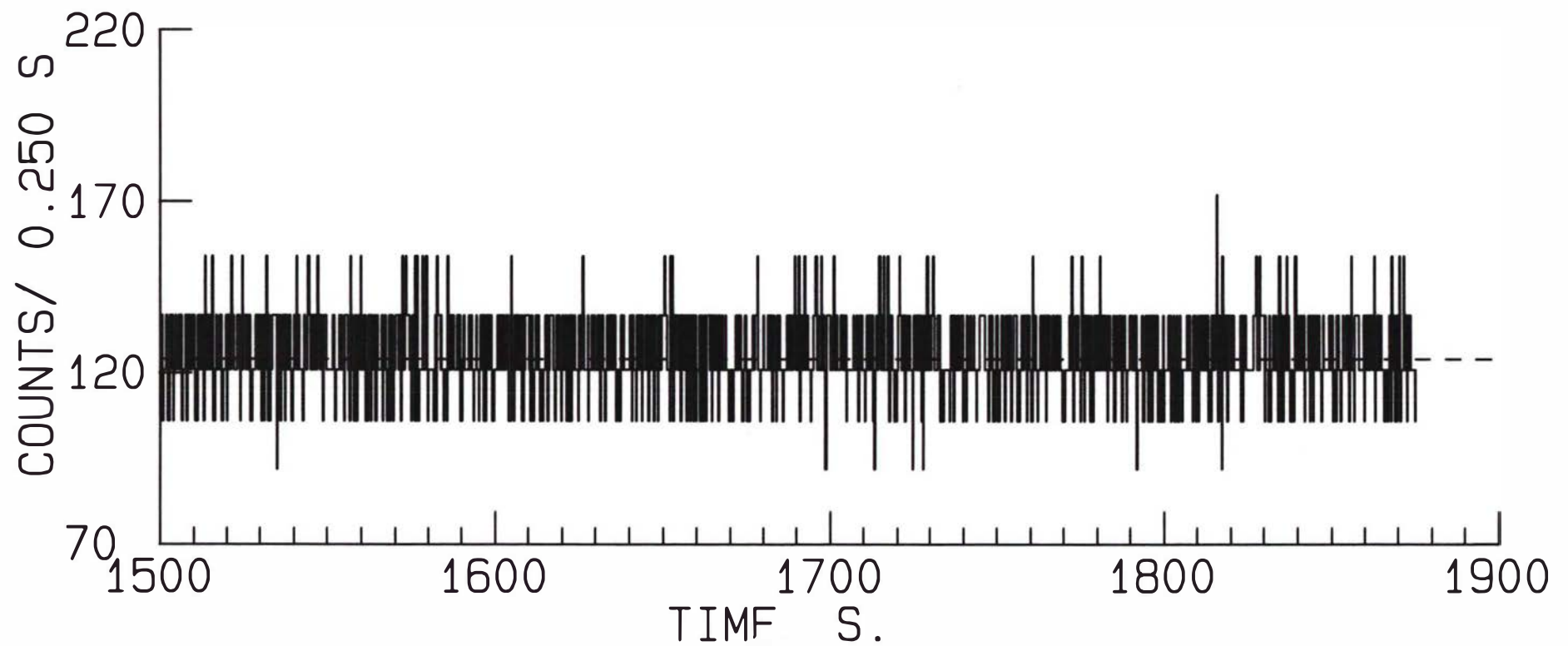
ULYSSES RT
20/ 5/95 82080.156 s
21- 141 keV

7 / 8 / 8



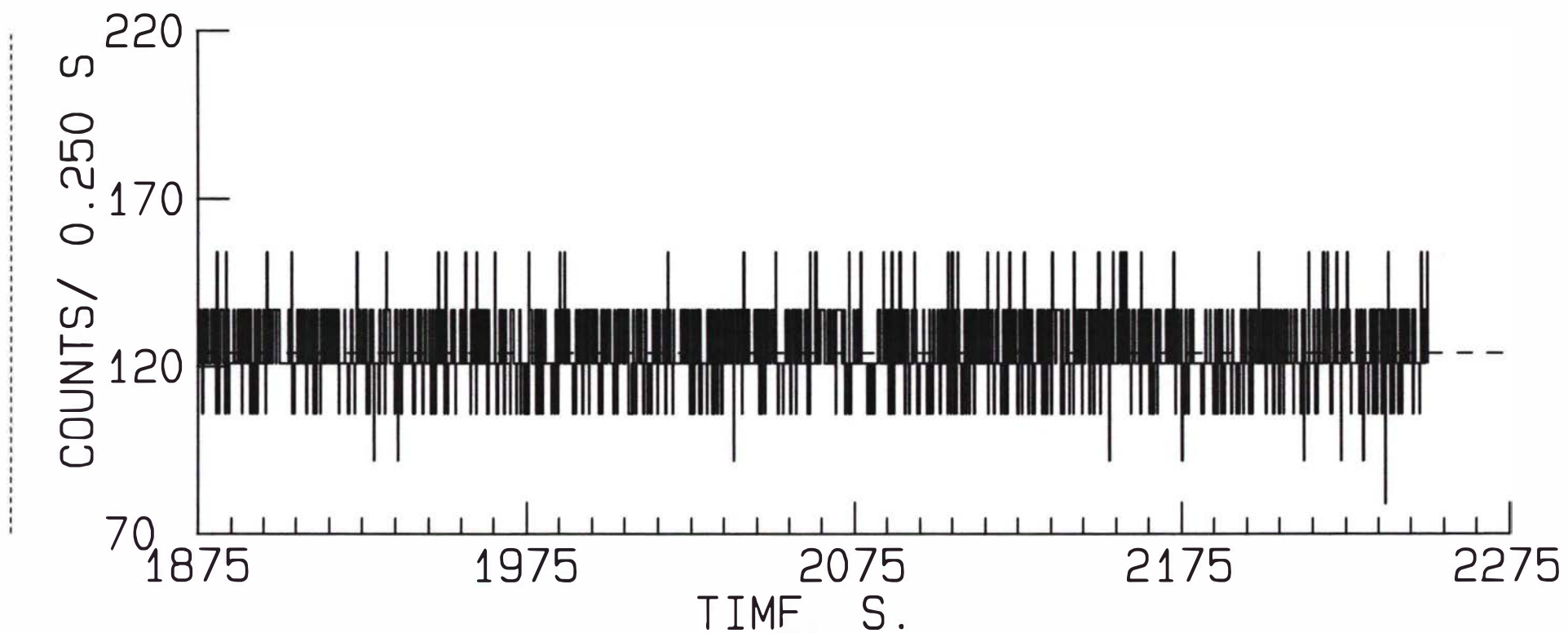
ULYSSES RT
20/ 5/95 82080.156 s
21- 141 keV

7 / 8 / 8



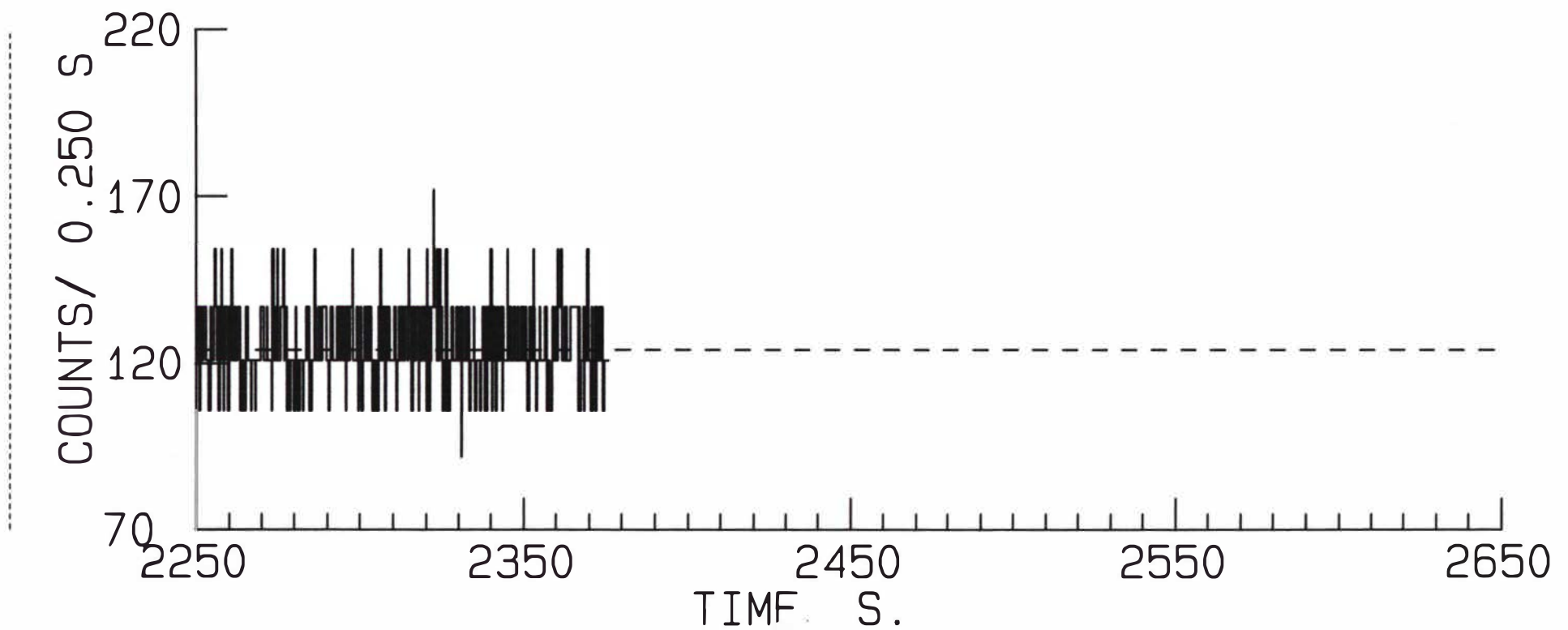
ULYSSES RT
20/ 5/95 82080.156 s
21- 141 keV

7 / 8 / 8



ULYSSES RT
20/ 5/95 82080.156 s
21- 141 keV

7 / 8 / 8



KONUS

15 / 2 / 96

ULYSSES RT

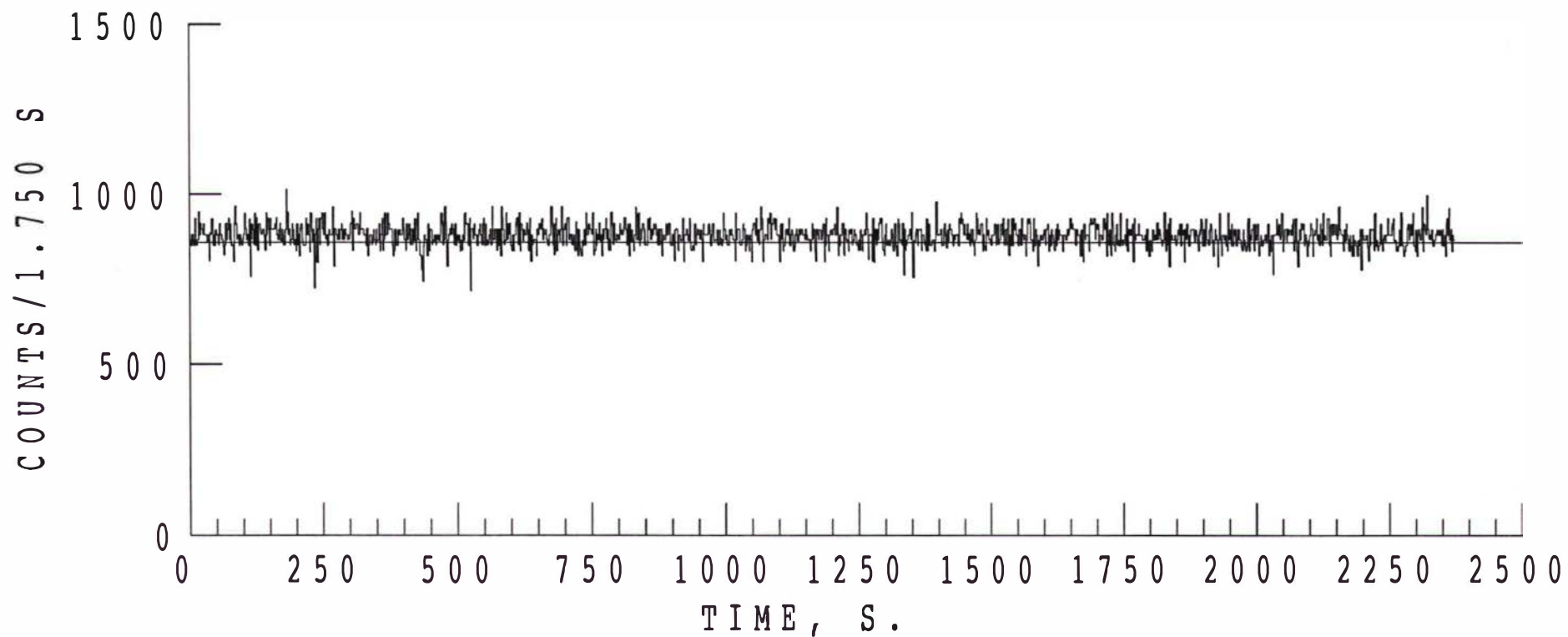
20 / 5 / 95 82080.156 s

0.250 S INTERVALS REGROUPED BY 7

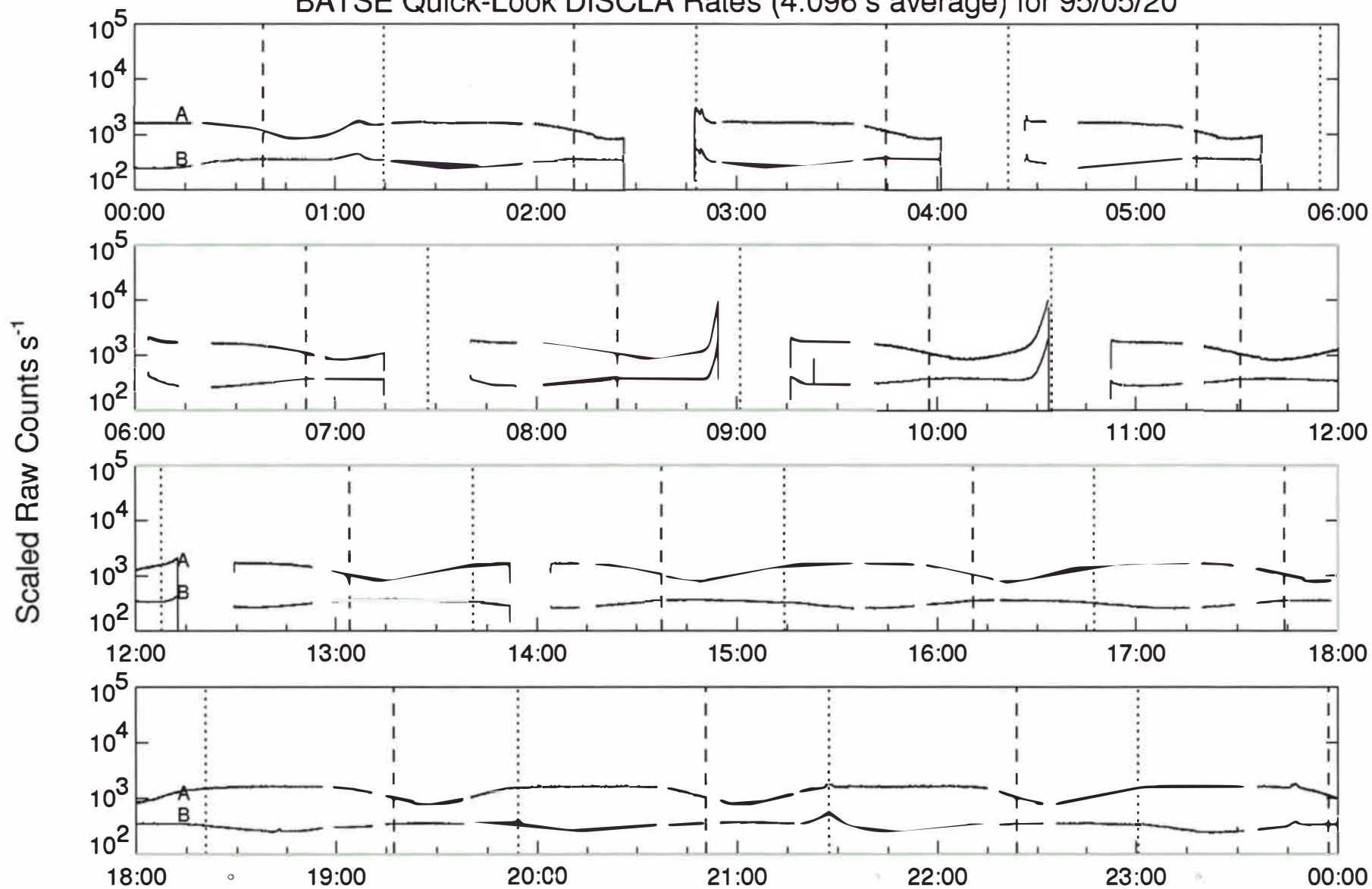
0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



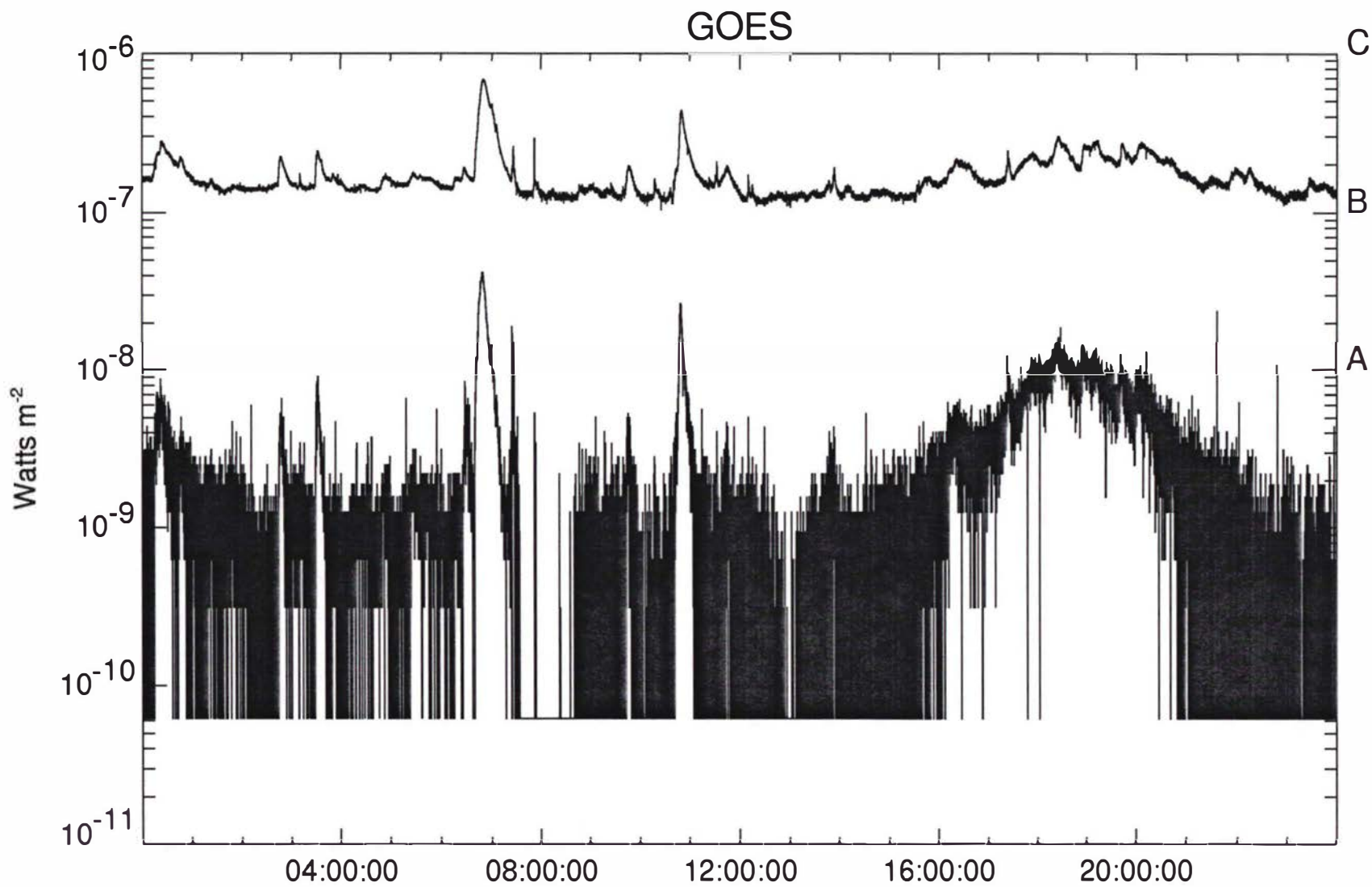
BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/20



Current Time: 95/05/22, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare



Data Start: 95/05/19, 0000:01

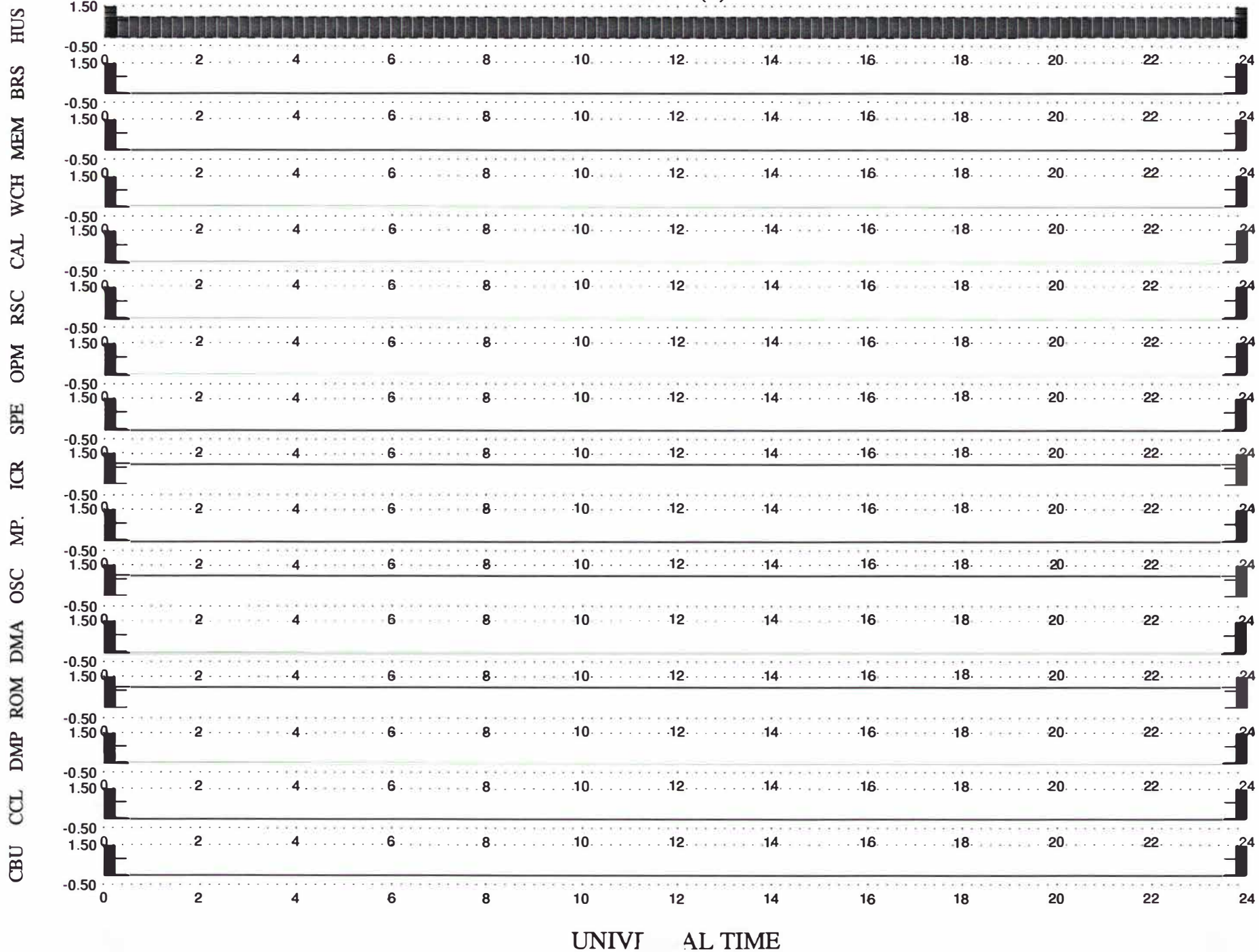
Plot created: 95/05/21, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

Channel 2 (0.5 - 4.0 Angstroms) Background not subtracted

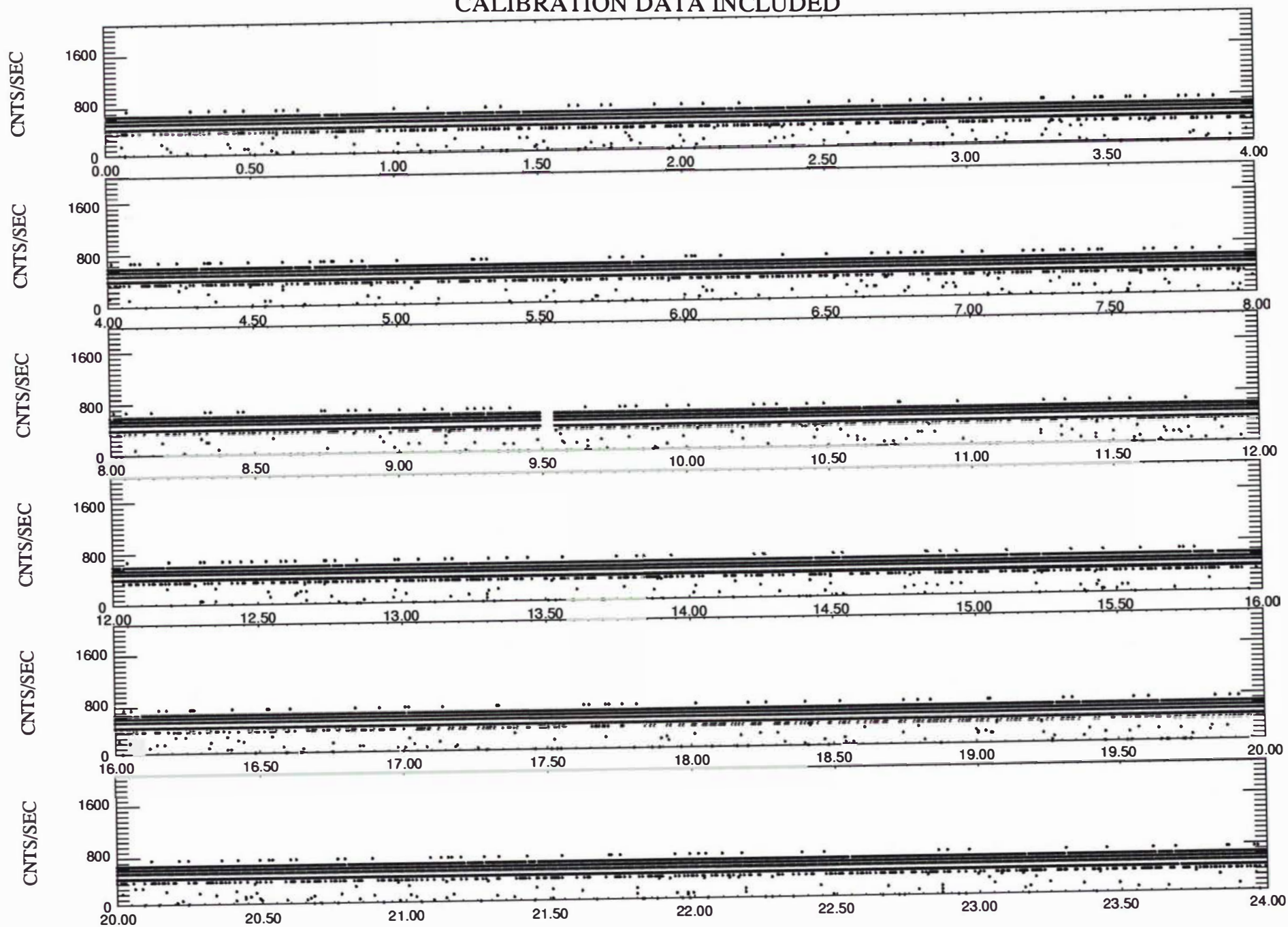
HUS MODES EDR day 140, year 1995 to day 140, year 1995
NO BURST (3)

11/21/95

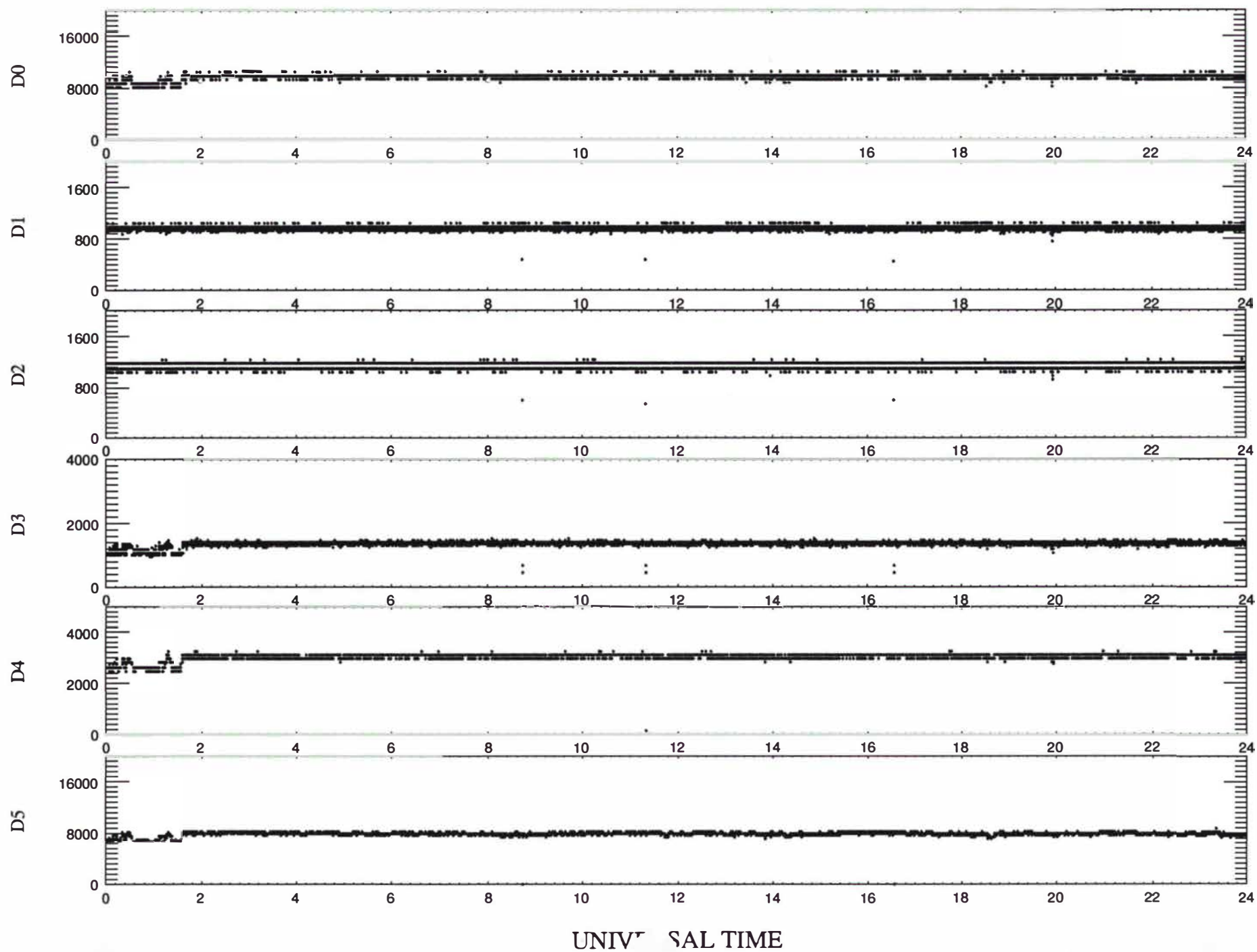


HUS 2A, MODE 1, NOT AVERAGED EDR day 140, year 1995 to day 140, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIFORM TIME



From HAGEDON@fender.msfc.nasa.gov Tue May 23 09:39 PDT 1995
Date: Tue, 23 May 1995 11:39:30 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3588

BATSEARCH PROGRAM

BATSE BURST # 3588
EVENT OF 1995 MAY 21 DAY OF YEAR=141
EVENT CROSSING TIME AT BATSE : 25157. S. OR 06:59:17.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 22.000 -27.000
BATSE PEAK COUNTING RATE: 5300 C/S

RI

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 21/ 5/ 95 IS:
RA= 6.336 DEC= 40.969 DIST= 2.044 AU
BATSE-ULYSSES DISTANCE = 305842165. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=110.49 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -357.18 SECS.
CROSSING TIME AT ULYSSES IS 24800. S. OR 06:53:19 +/- 210.48 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 21/ 5/ 95 IS:
RA= 150.670 DEC= 13.680 DIST= 1.323 AU
MARS-BATSE DISTANCE = 197882896. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 49.59 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 427.93 SECS.
CROSSING TIME AT MARS IS 25585. S. OR 07:06:24 +/- 93.75 SECONDS

BATSE BURST TRIGGER

NO.: 3588

TIME: TJD=9858 SECONDS=25157

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=64 AZIMUTH=85 ERROR= DEGREES

COMMENTS:

BURST. COMPLEX EVENT. DUR.~110 SEC. NOT VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3588	950521	9858	25157	5300	022	-27	110

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

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

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

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

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

Helio corr removed

Date: Feb 14 '98

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

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

2. BATSE Data

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

3. PVO Data

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

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

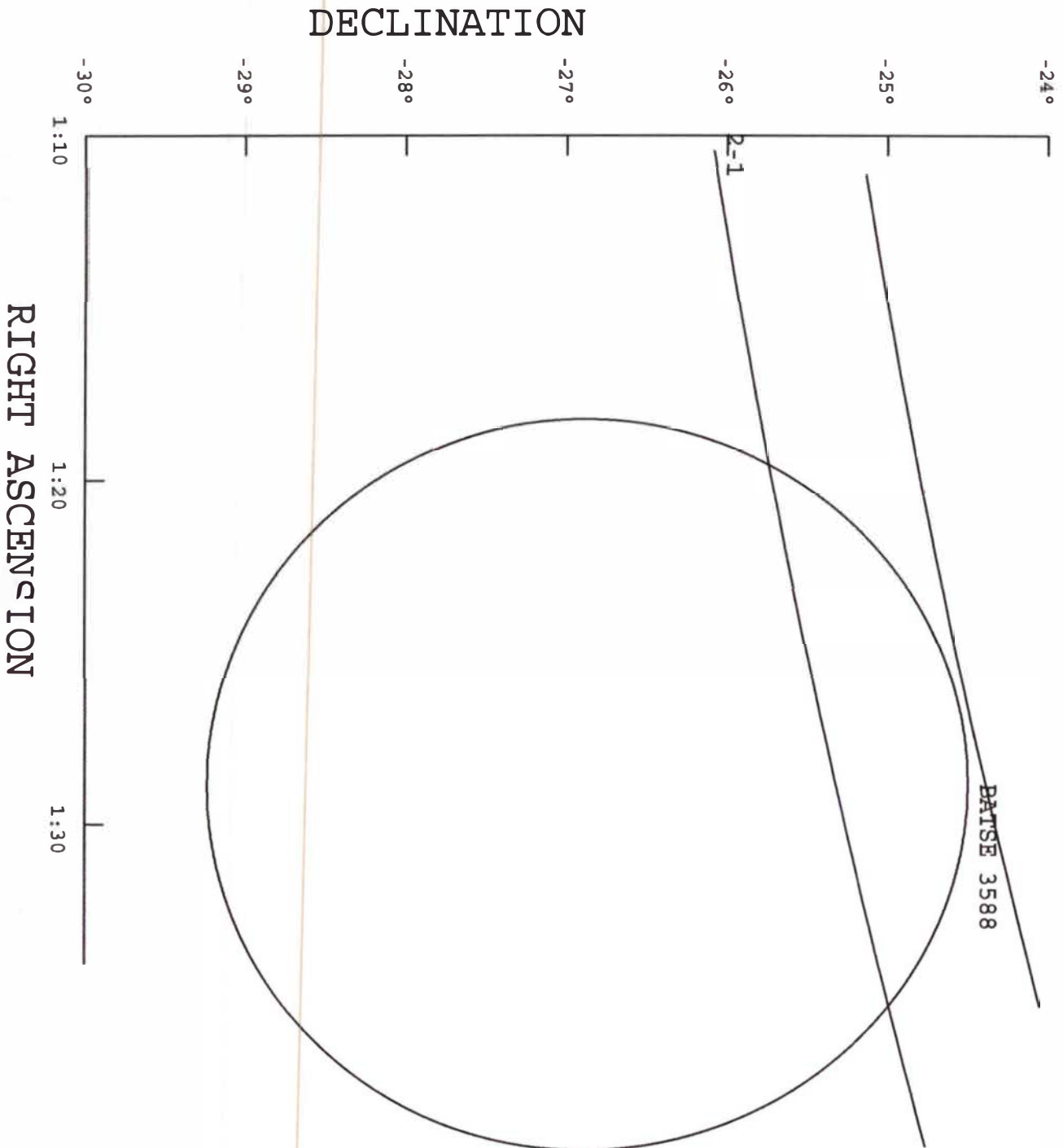
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF MAY 21, 1995 6:52

14 / 2/98



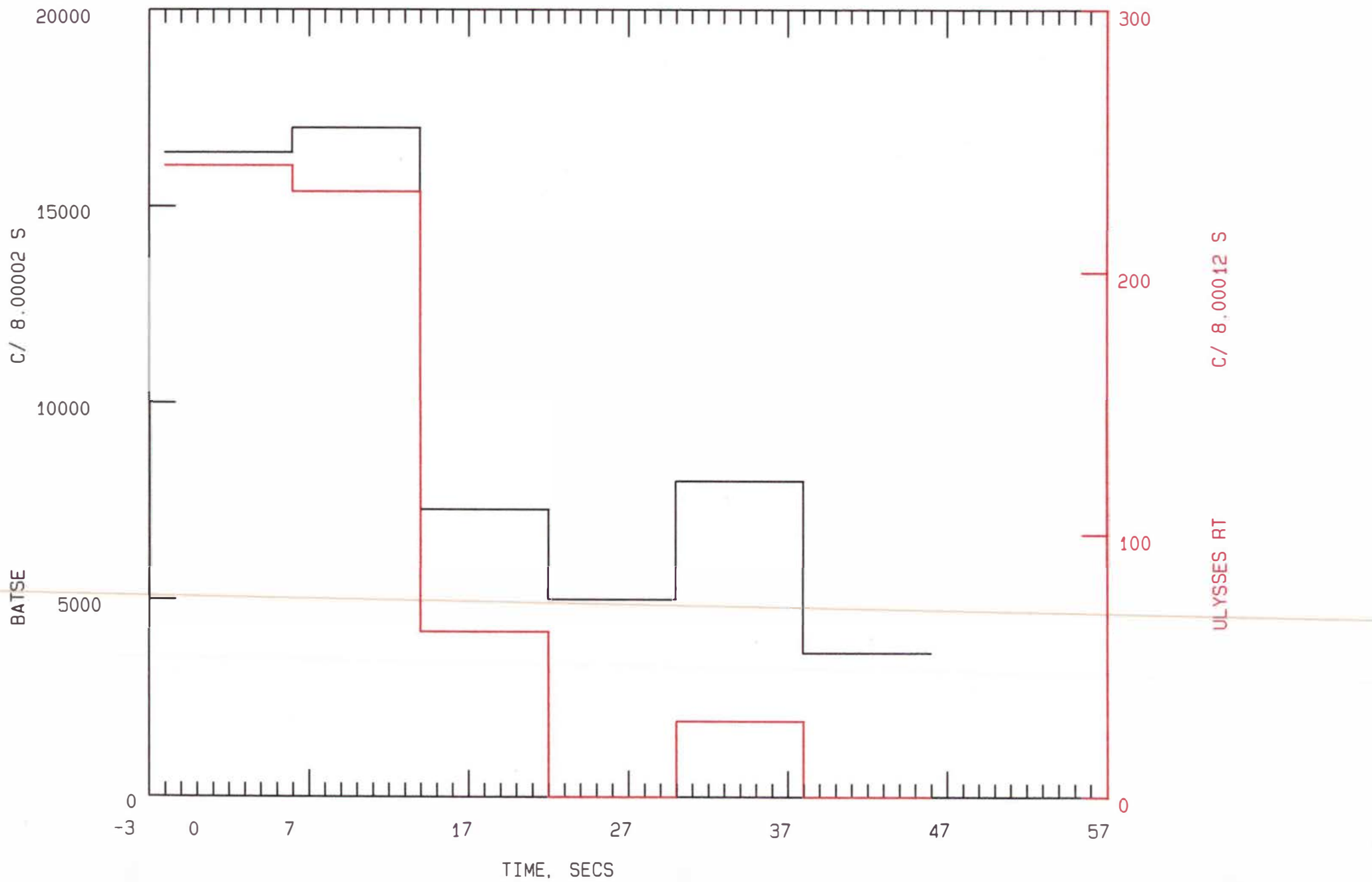
BATSE

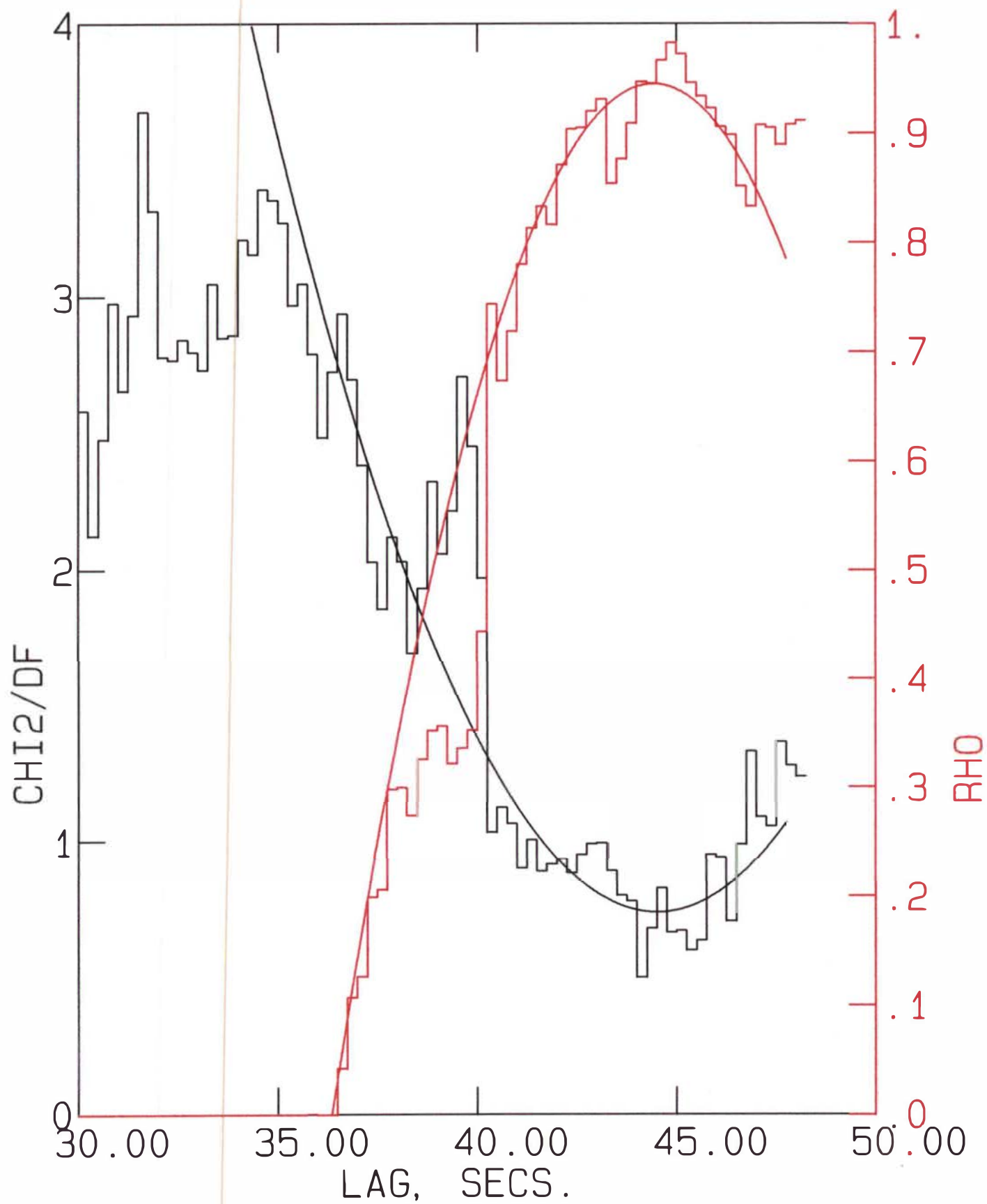
-ULYSSES RT CORRELATION

21/ 5/95

25157.298

14/ 2/98





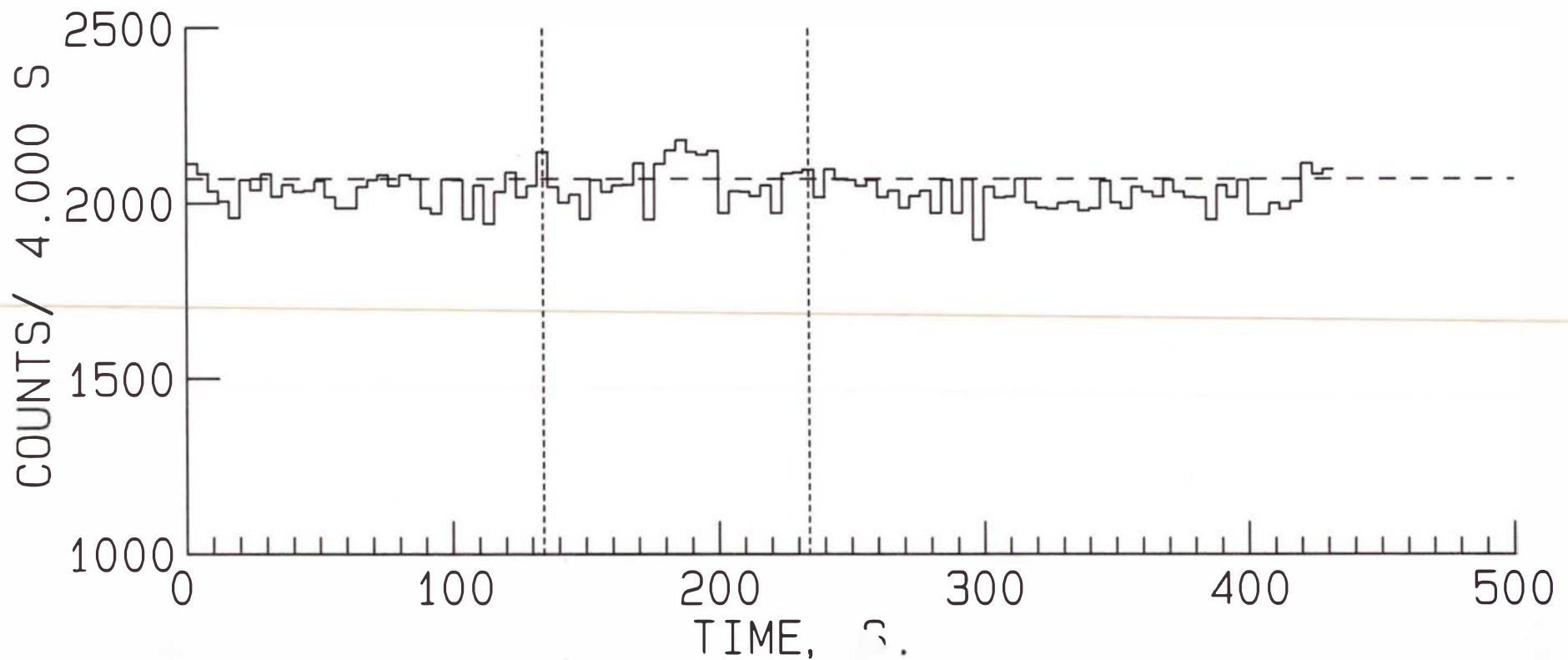
ULYSSES RT

14 / 2 / 98

21 / 5 / 95 24588.162 s

0.250 S INTERVALS REGROUPED BY 16

21- 141 keV



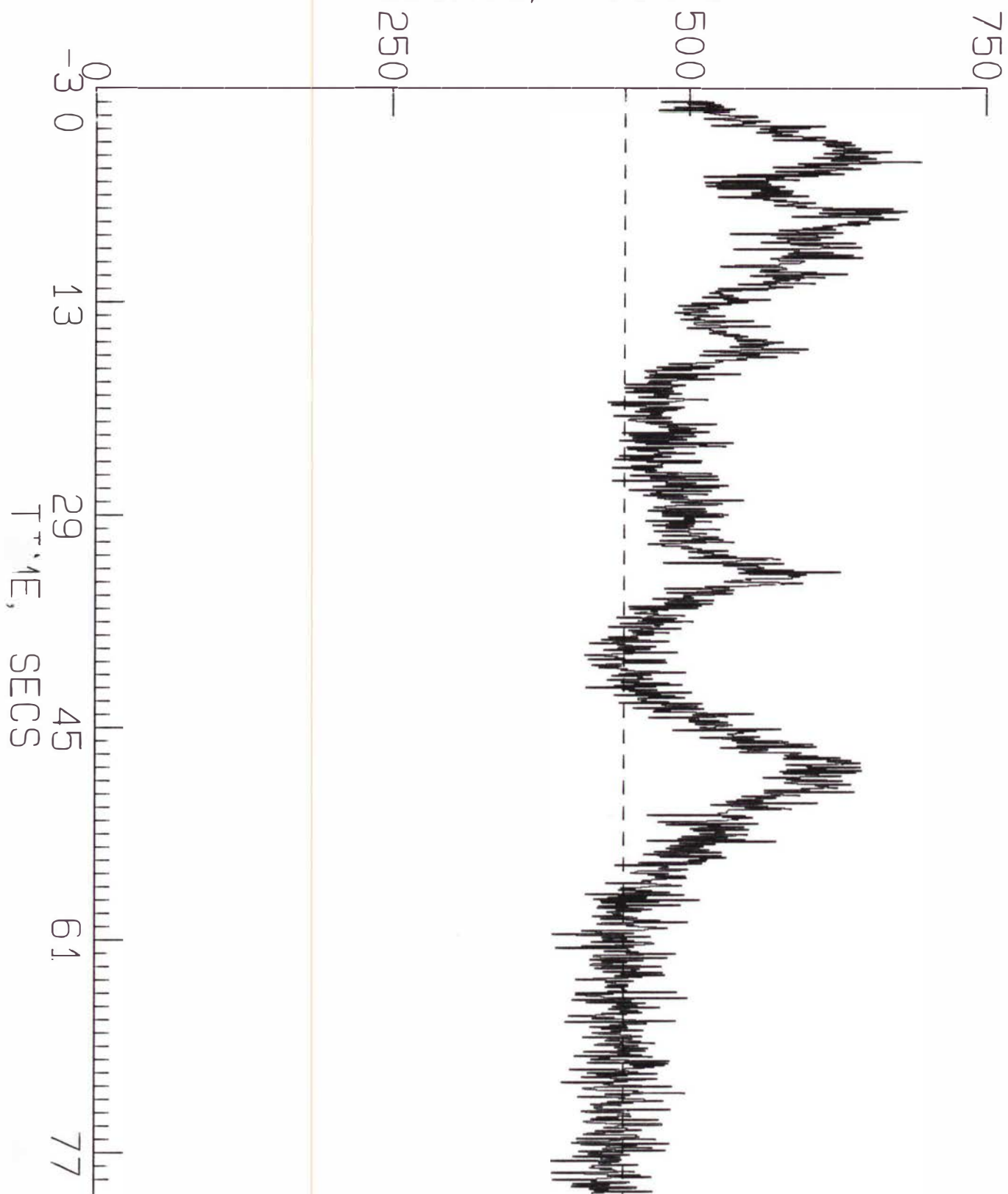
BATSE

21/05/95

25157.298

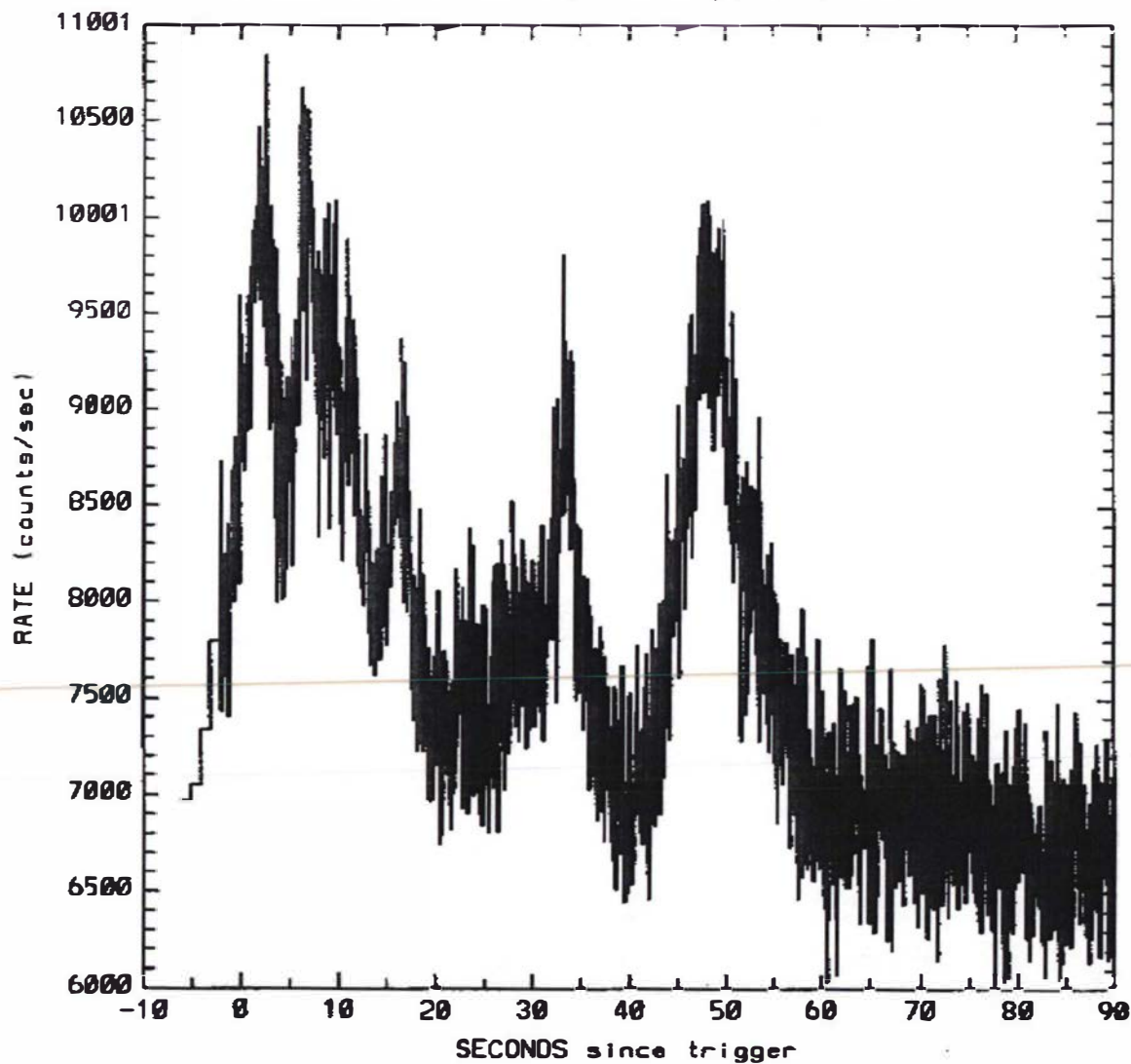
25- 100 keV

COUNTS/ .064 S



950521

DISCSC Data for K. Hurley, No. 3588



9-JUN-1995 08:36:31

Created by MOPS 80
(Burst Display)
Version 12.25

Trigger # , 3588

Trigger Time:
9858 / 25157.298Burst Data Type:
DISCSCDeadtime
Corrected, NBackground Data
Type, PREB + DISCLAMinimum Integ. Time:
0.064 second(s)Detectors [7..8],
---4---8Discriminators:
1 1 . 2 1Quality Mask:
BDISP1

From HAGEDON@fender.msfc.nasa.gov Mon May 22 10:52 PDT 1995
Date: Mon, 22 May 1995 12:52:10 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3589

TIME: TJD=9858 SECONDS=35374

TYPE: SAA SOLAR FLARE TRIGGER SIGNAL:N

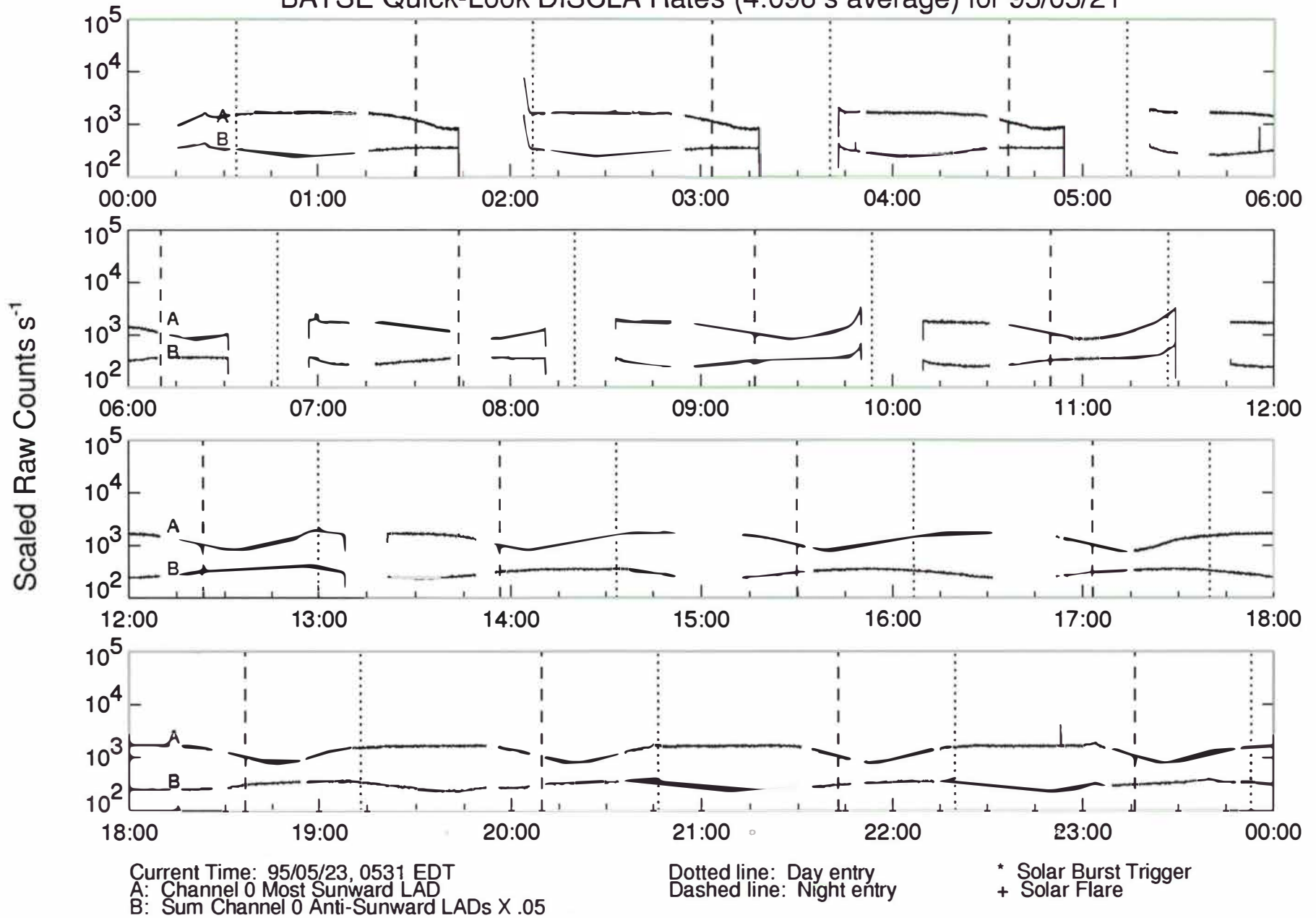
SIGNIFICANCE: SIGMA

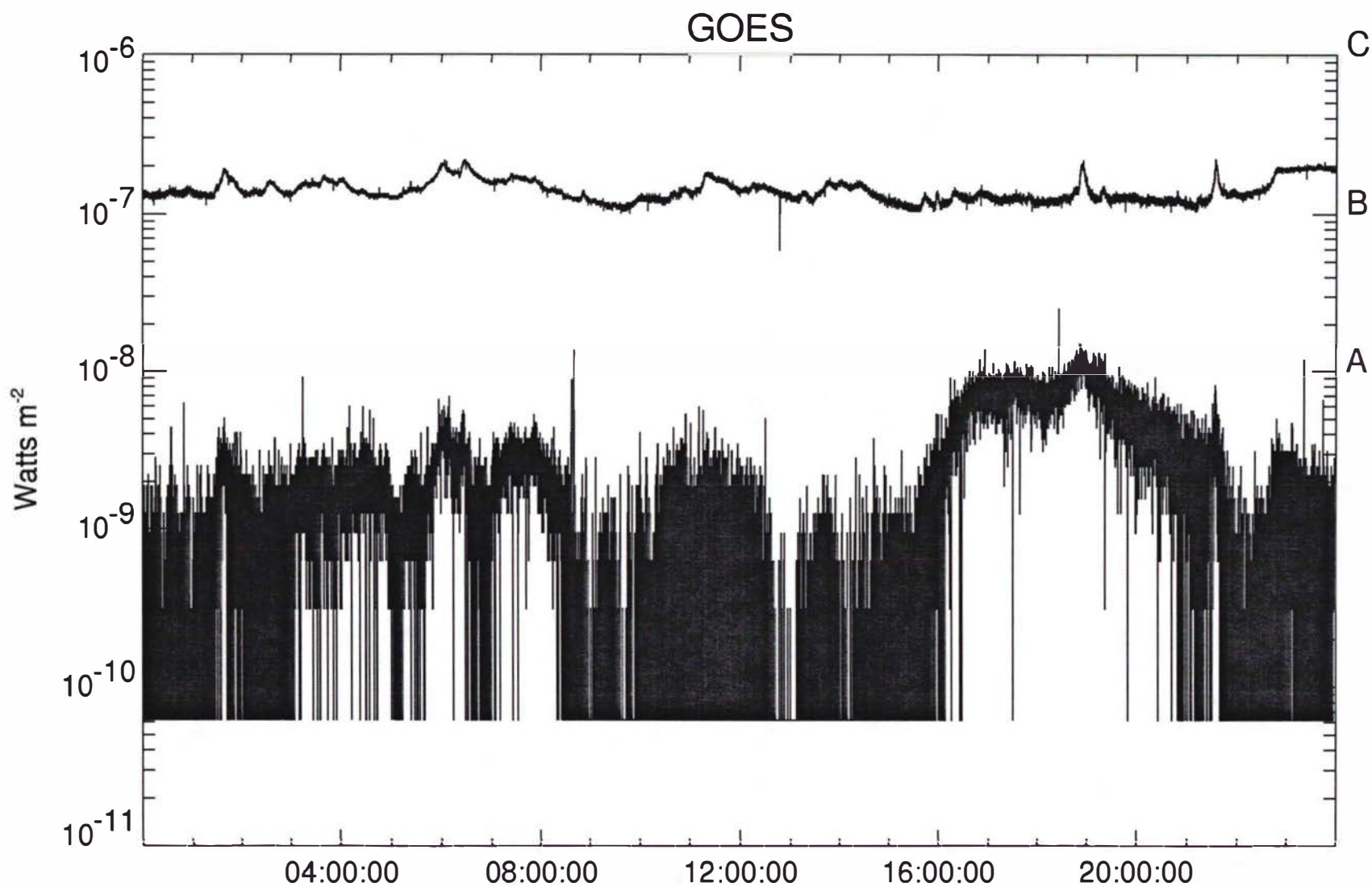
INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/21





Data Start: 95/05/20, 0000:02

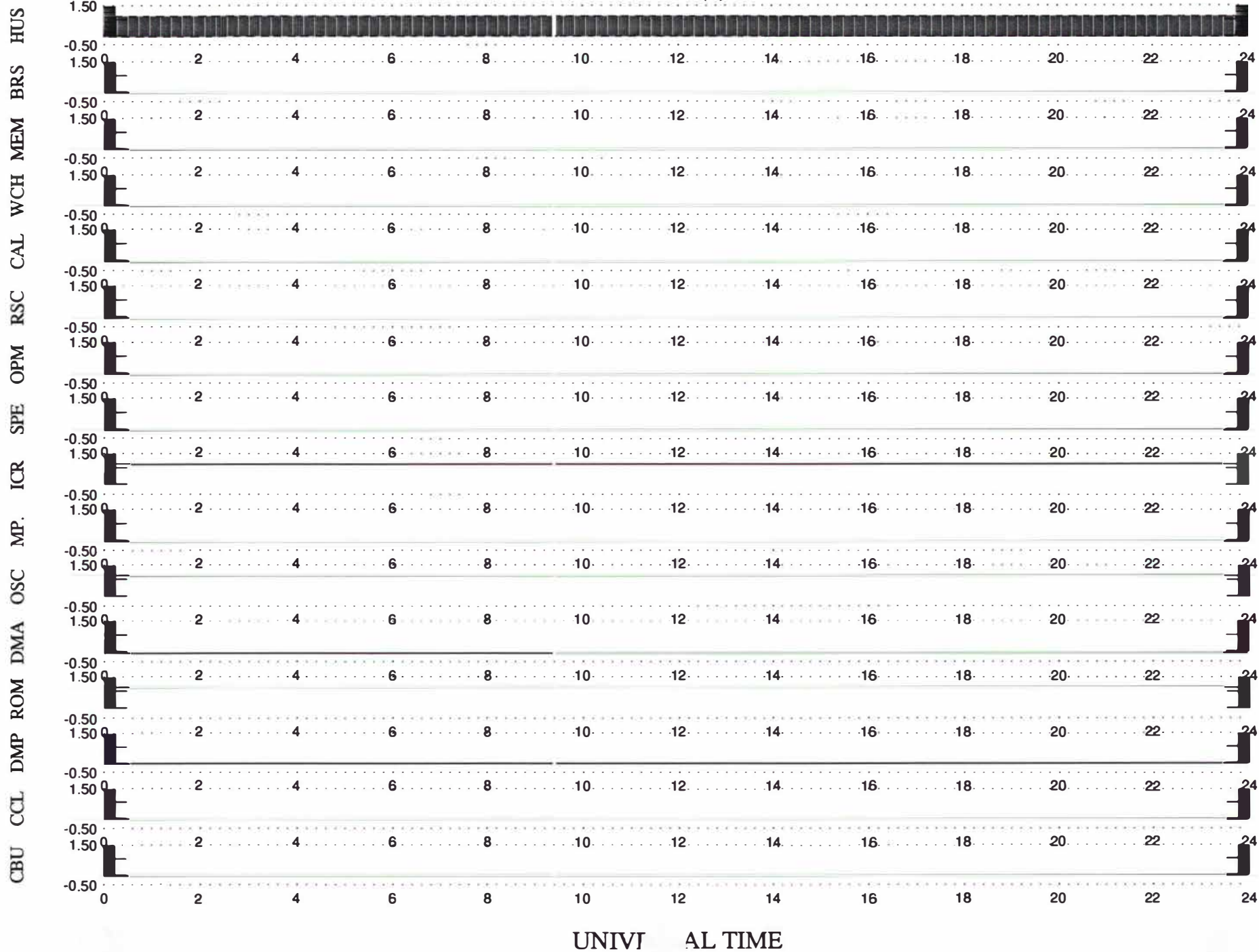
Plot created: 95/05/22, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted

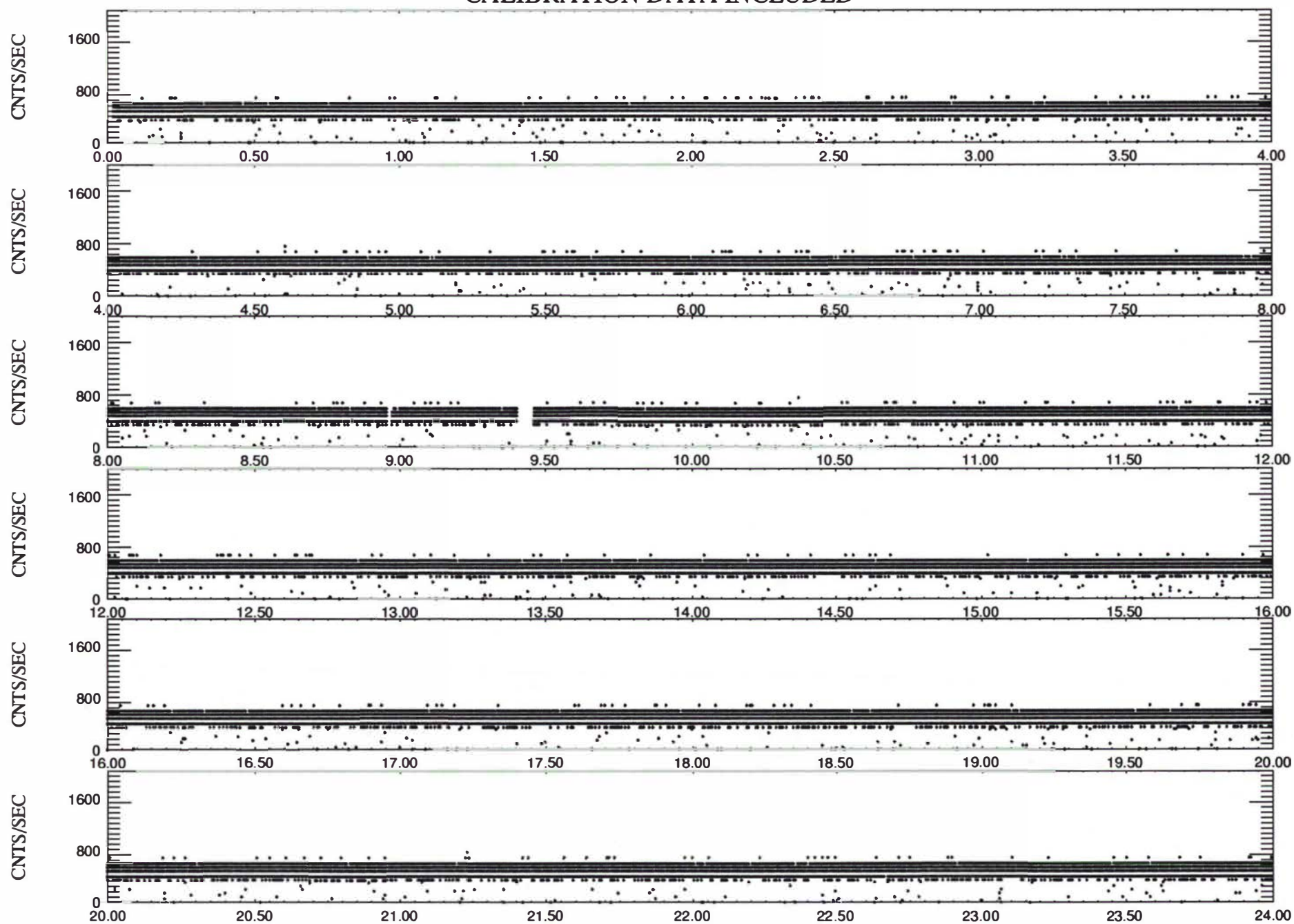
HUS MODES EDR day 141, year 1995 to day 141, year 1995
NO BURST (3)

11/21/95

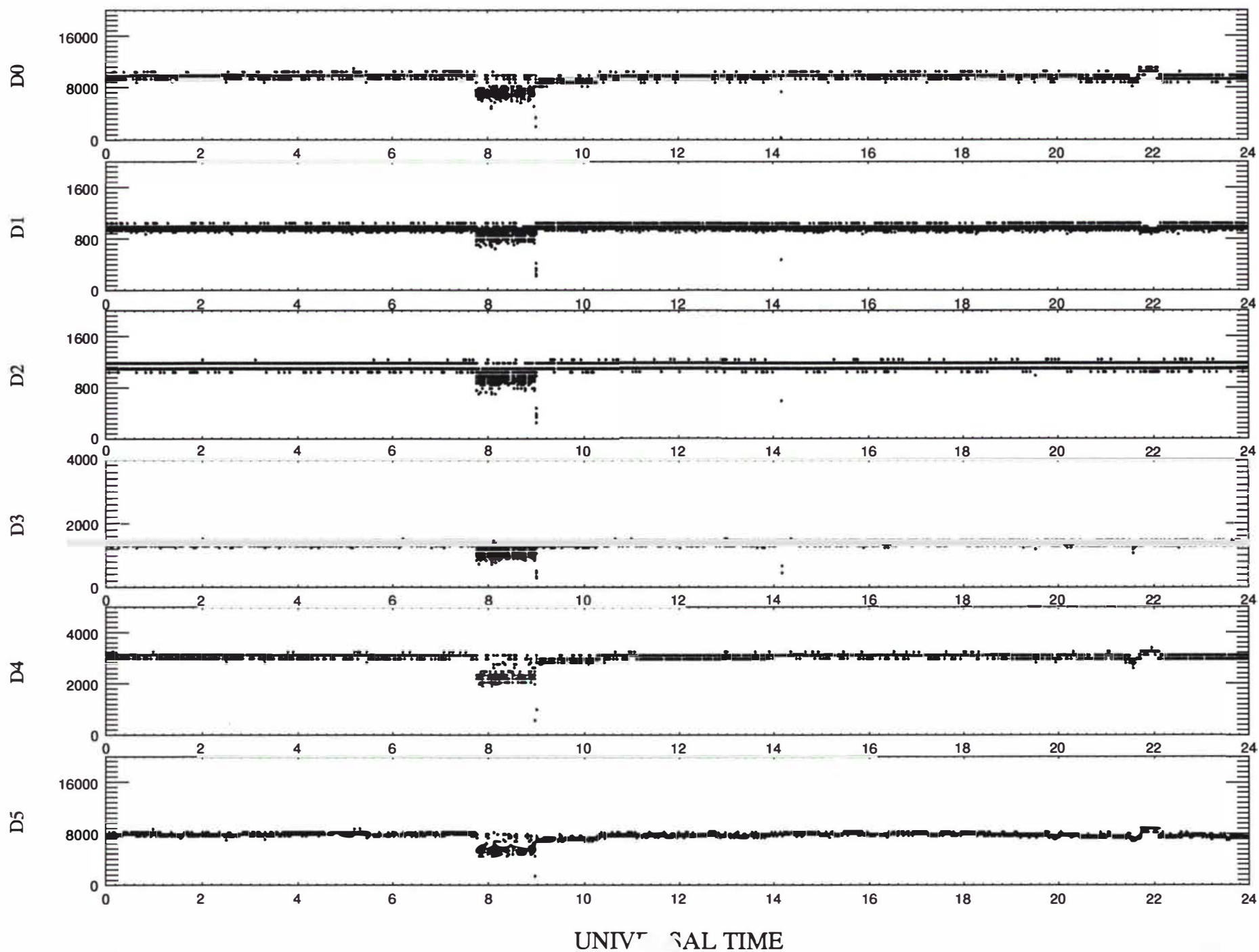


HUS 2A, MODE 1, NOT AVERAGED EDR day 141, year 1995 to day 141, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIVERSAL TIME



From SAHI@ssl.msfc.nasa.gov Tue May 23 11:15 PDT 1995
Date: Tue, 23 May 1995 13:14:54 -0500 (CDT)
From: SAHI@ssl.msfc.nasa.gov
To: burst@compTEL.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@ssl.msfc.nasa.gov,
"LHEAVX::BARTHELMY"@ssl.msfc.nasa.gov, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@ssl.msfc.nasa.gov, "CASS09::BAND"@ssl.msfc.nasa.gov
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER
NO.: 3590

RI - but too weak to triangulate

TIME: TJD=9859 SECONDS=23896

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=74.7 AZIMUTH=149.3 ERROR= DEGREES

COMMENTS:

BURST. SINGLE PULSE WITH SUBSTRUCTURE, DUR.~10 SECS. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3590	950522	9859	23896	9000	091	-82	10

BATSEARCH PROGRAM

BATSE BURST # 3590
EVENT OF 1995 MAY 22 DAY OF YEAR=142
EVENT CROSSING TIME AT BATSE : 23896. S. OR 06:38:16.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 91.000 -82.000
BATSE PEAK COUNTING RATE: 9000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 22/ 5/ 95 IS:
RA= 6.710 DEC= 41.740 DIST= 2.042 AU
BATSE-ULYSSES DISTANCE = 305412836. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 49.54 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 661.11 SECS.
CROSSING TIME AT ULYSSES IS 24557. S. OR 06:49:17 +/- 194.61 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 22/ 5/ 95 IS:
RA= 151.081 DEC= 13.506 DIST= 1.331 AU
MARS-BATSE DISTANCE = 199161264. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 80.57 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 108.81 SECS.
CROSSING TIME AT MARS IS 24005. S. OR 06:40:04 +/- 115.43 SECONDS

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

Hello Kevin,

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

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

3590, 88.52, -81.81, 0.98
3664 286.67, 30.04, 2.14

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

--Michael

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

Dear Kevin,

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

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

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

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

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

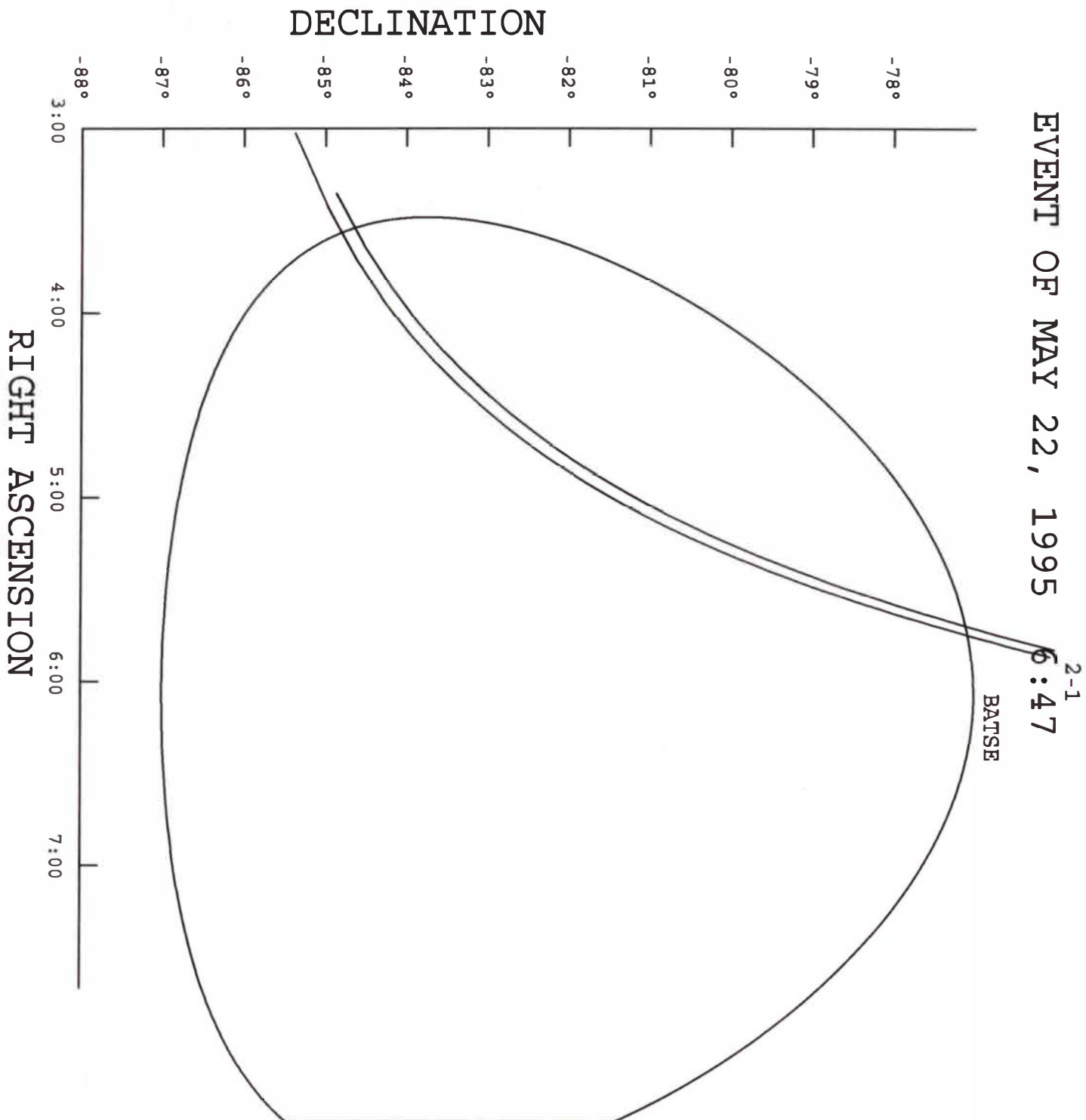
S=SUN

E=ECLIPTIC

G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE



3 / 2 / 96

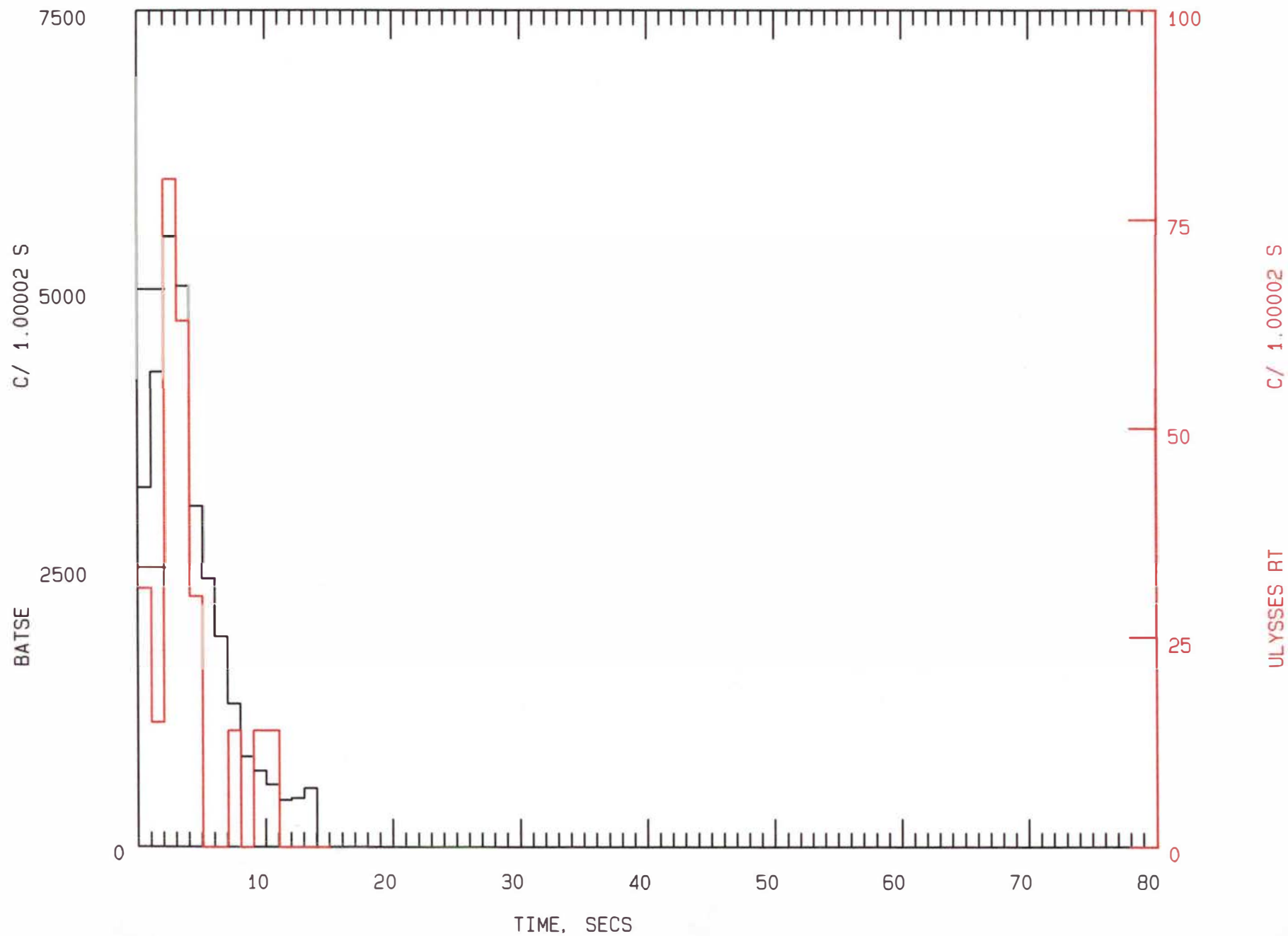
BATSE

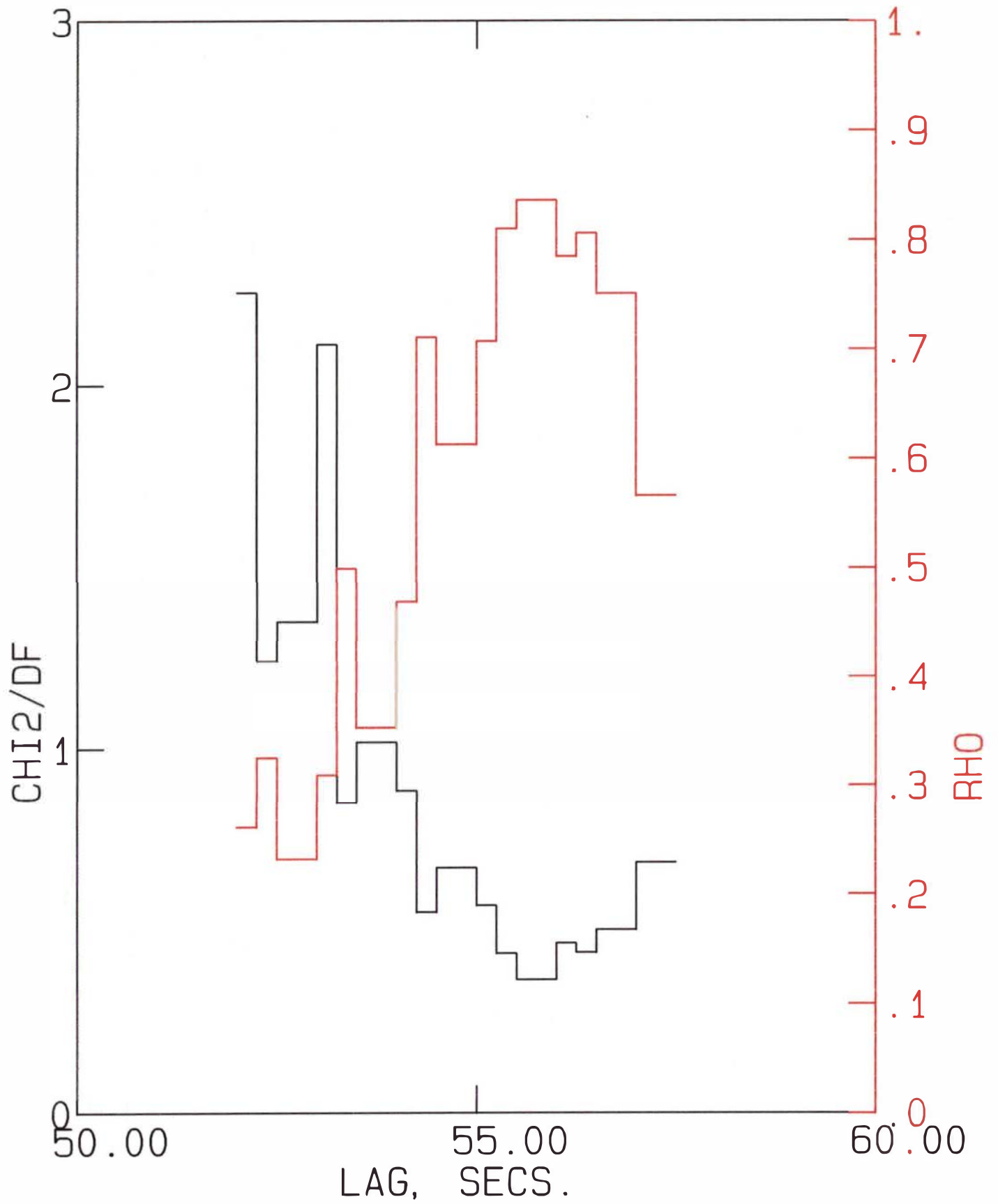
-ULYSSES RT CORRELATION

22/ 5/95

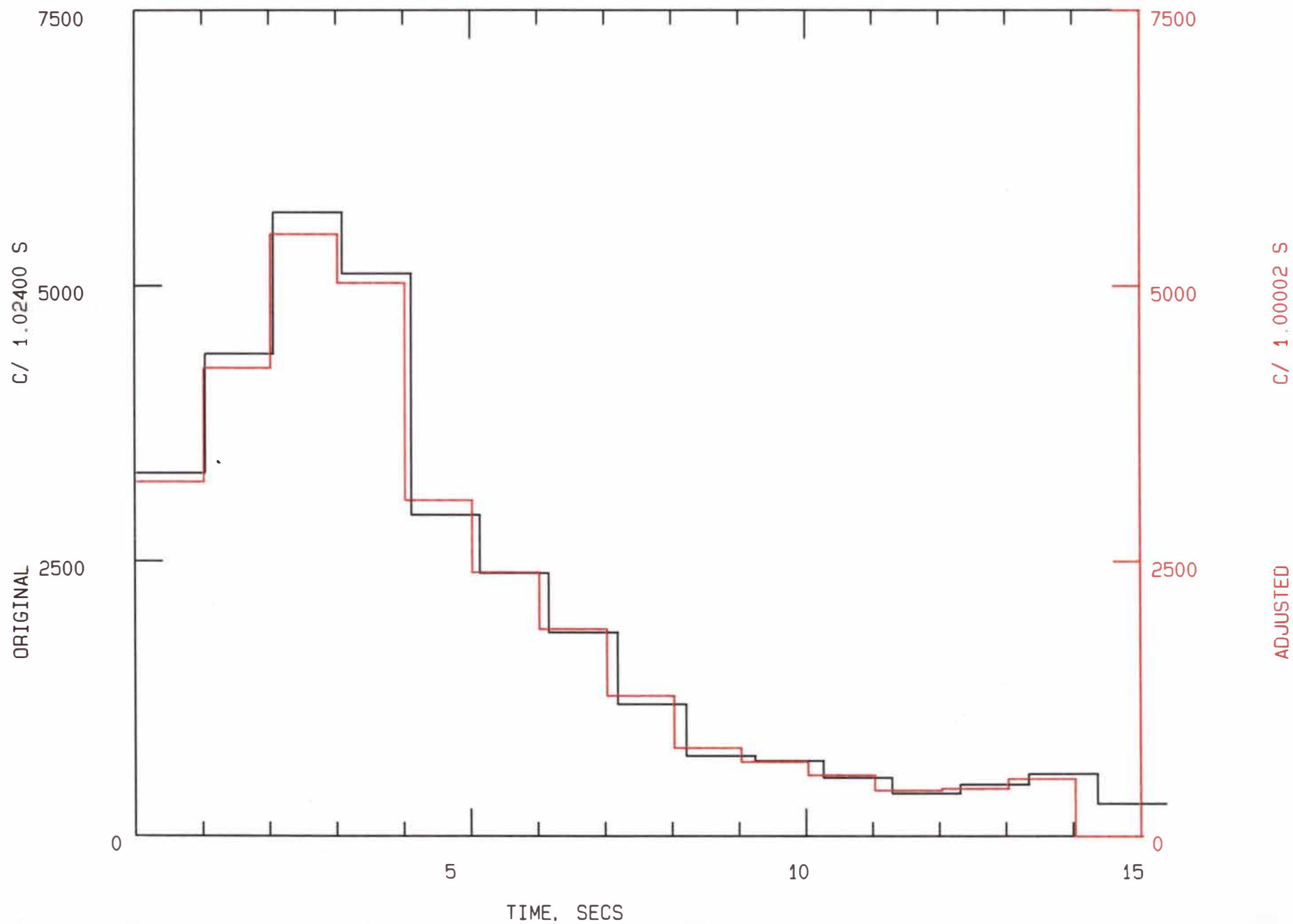
23896.882

3/ 2/96





3/ 2/96



ULYSSES RT

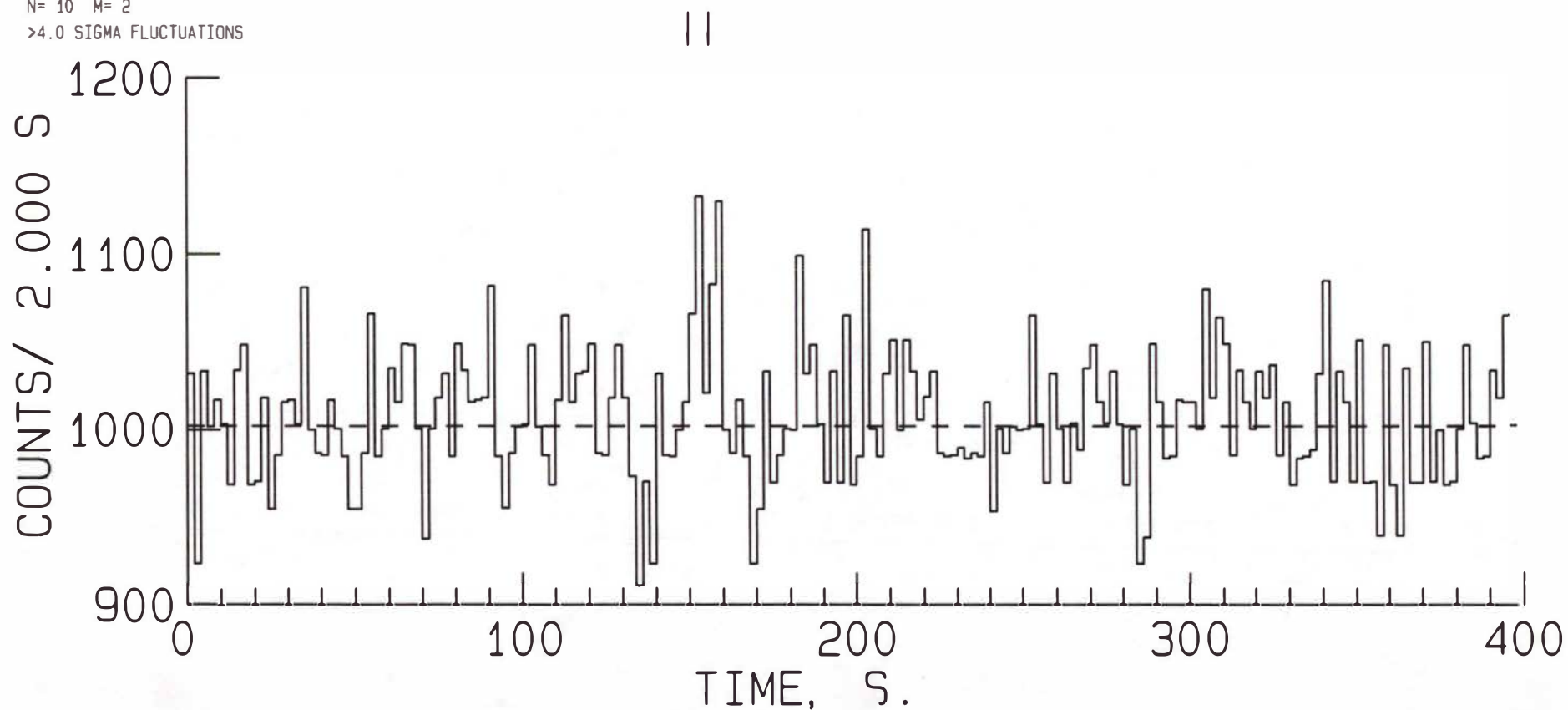
3 / 2 / 96

22 / 5 / 95 24372.031 s

0.250 S INTERVALS REGROUPED BY 8

21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

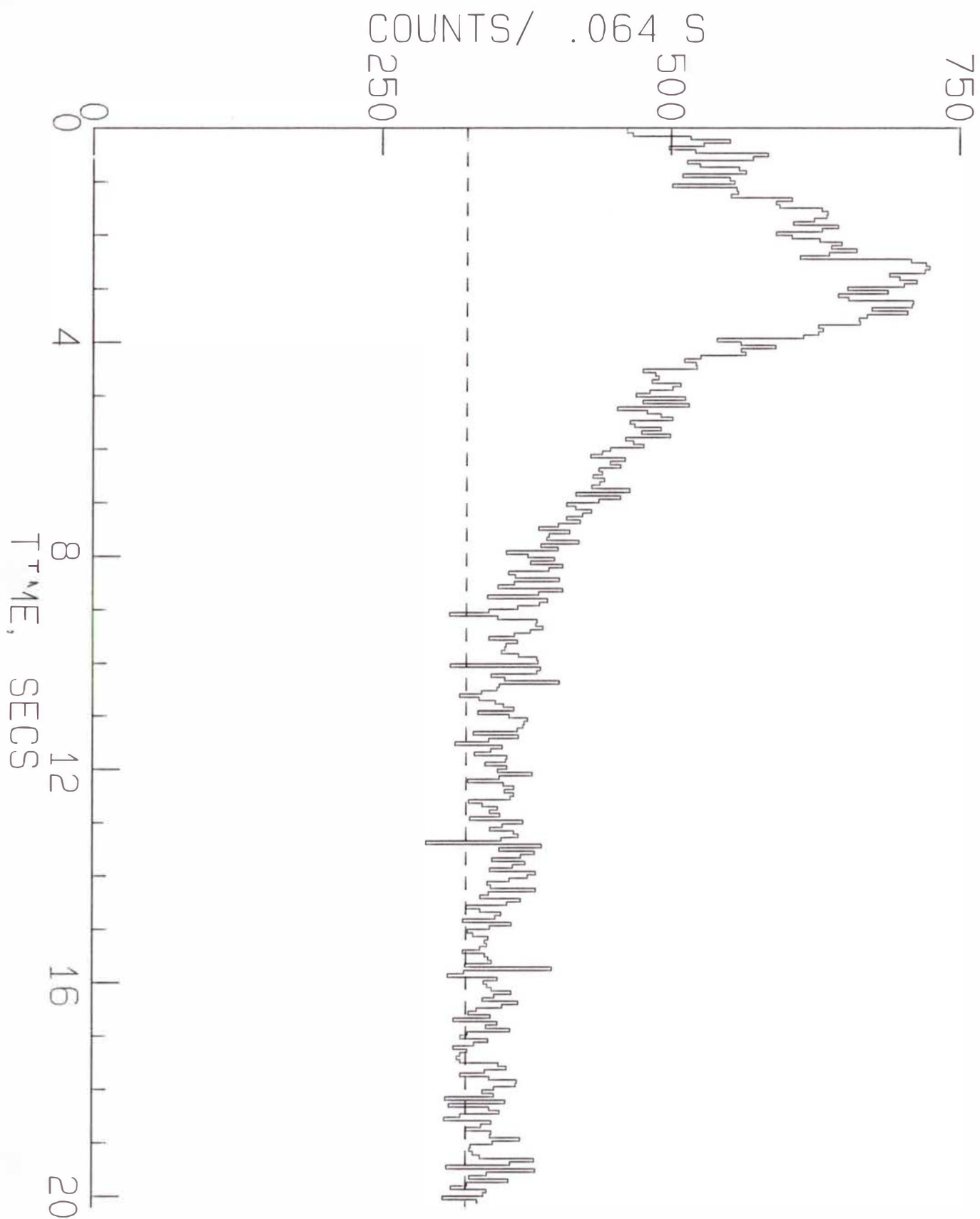


BATSE

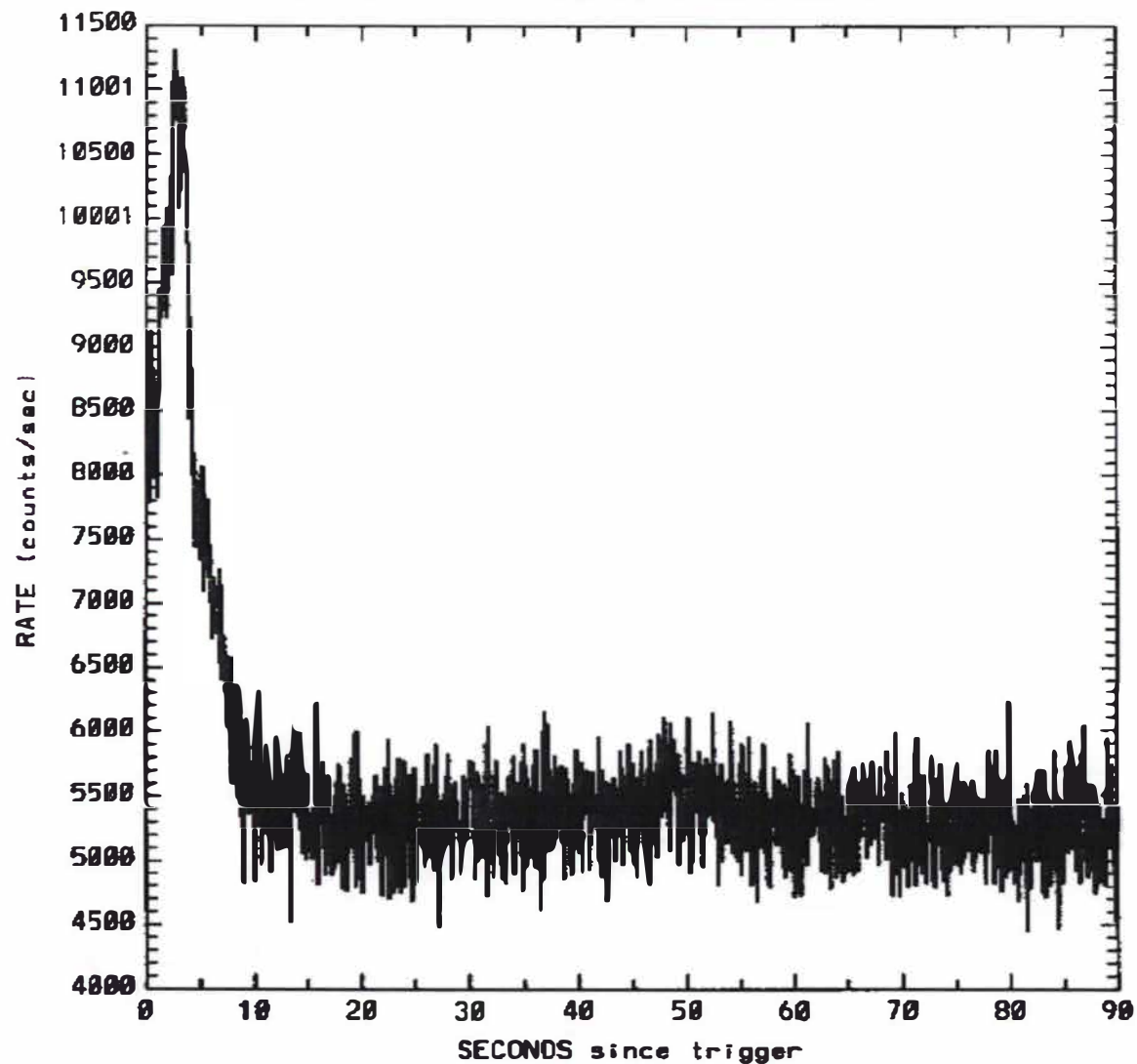
22/05/95

23896.882

25- 100 keV



MER Data for K. Hurley. No. 3590



950522

9-JUN-1995 08:38.30

Created by MOPS BD
(Burst Display)
Version 12.25

Trigger # . 3590

Trigger Time.
9859 / 23896.882Burst Data Type.
MERDeadtime
Corrected. NBackground Data
Type. CONTMinimum Integ. Time.
9.864 secondsDetectors [7..8].
--54----Channels.
[8 . 6]Quality Mask.
80ISP1

Date: Aug 24 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

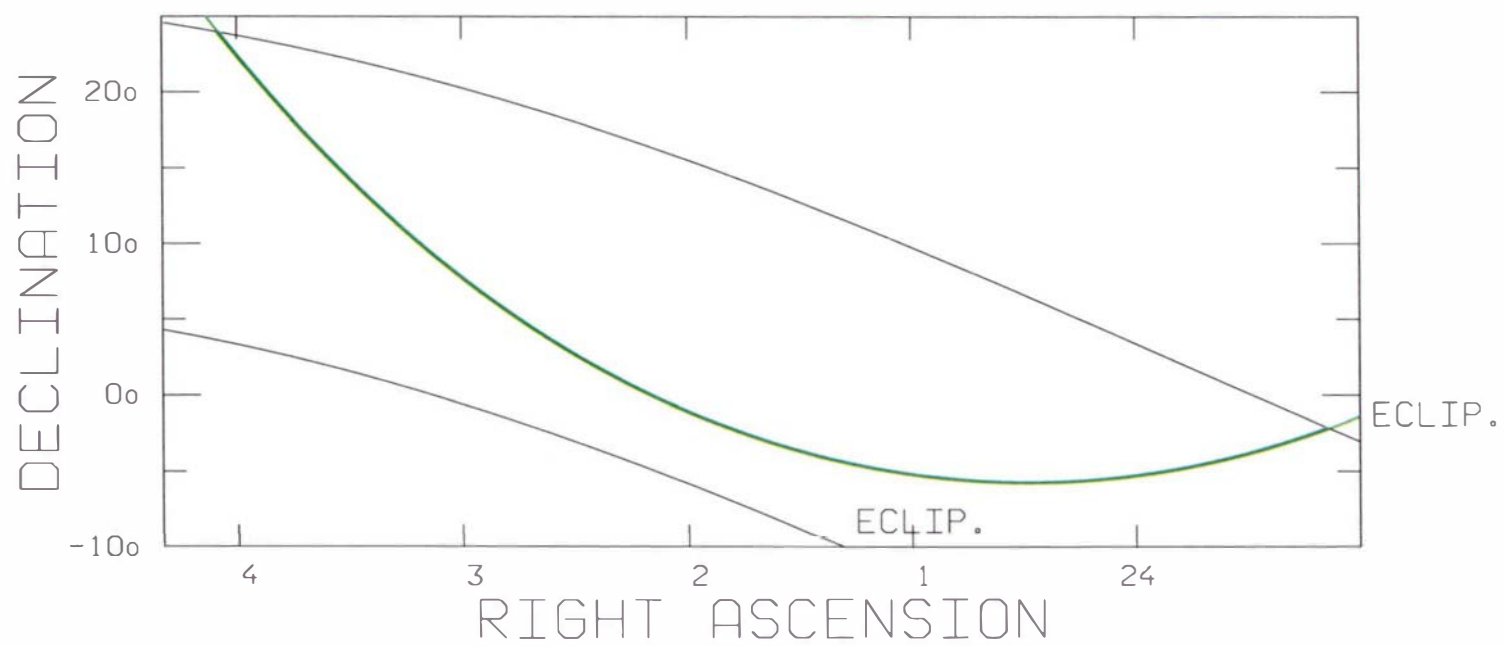
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

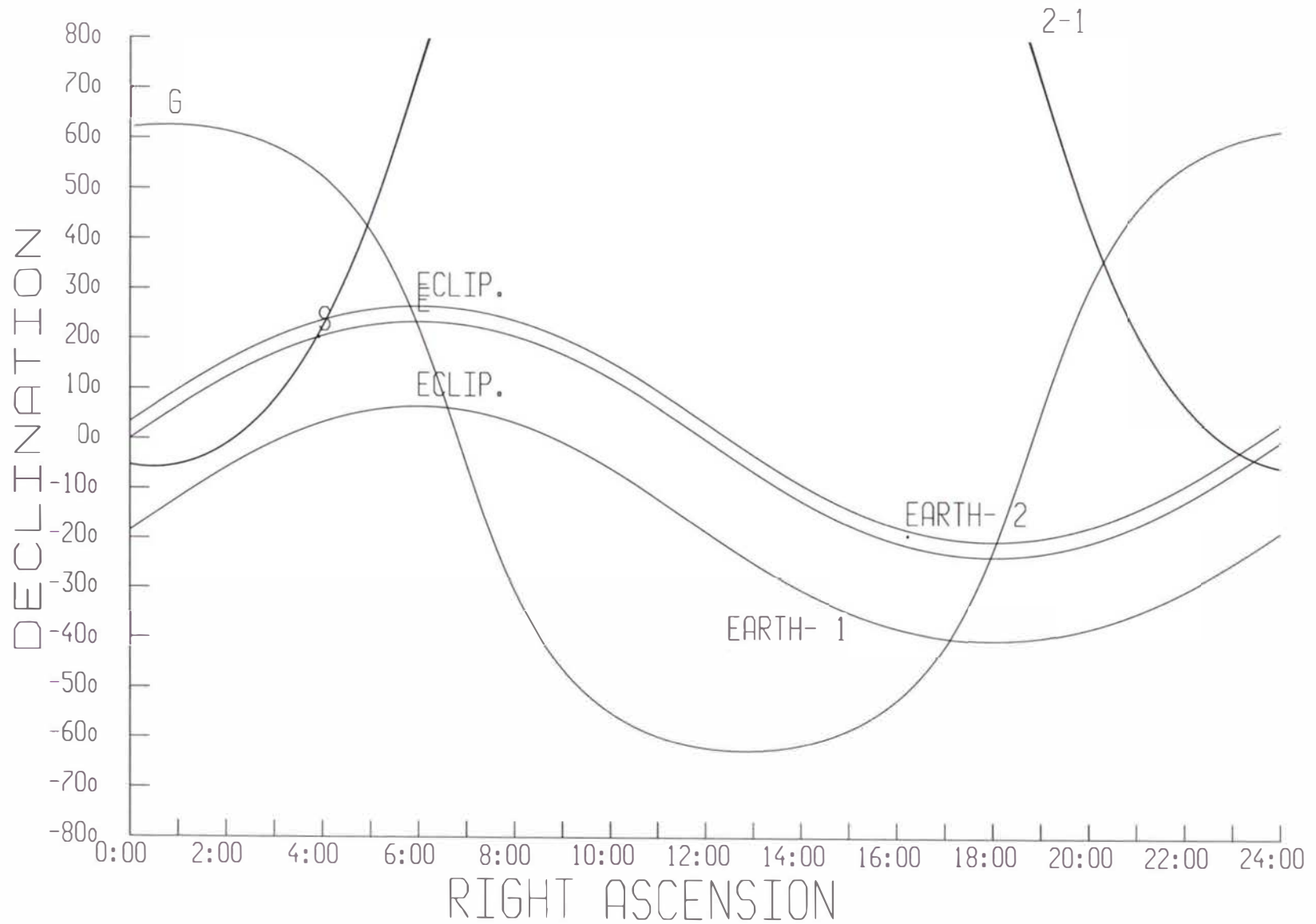
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

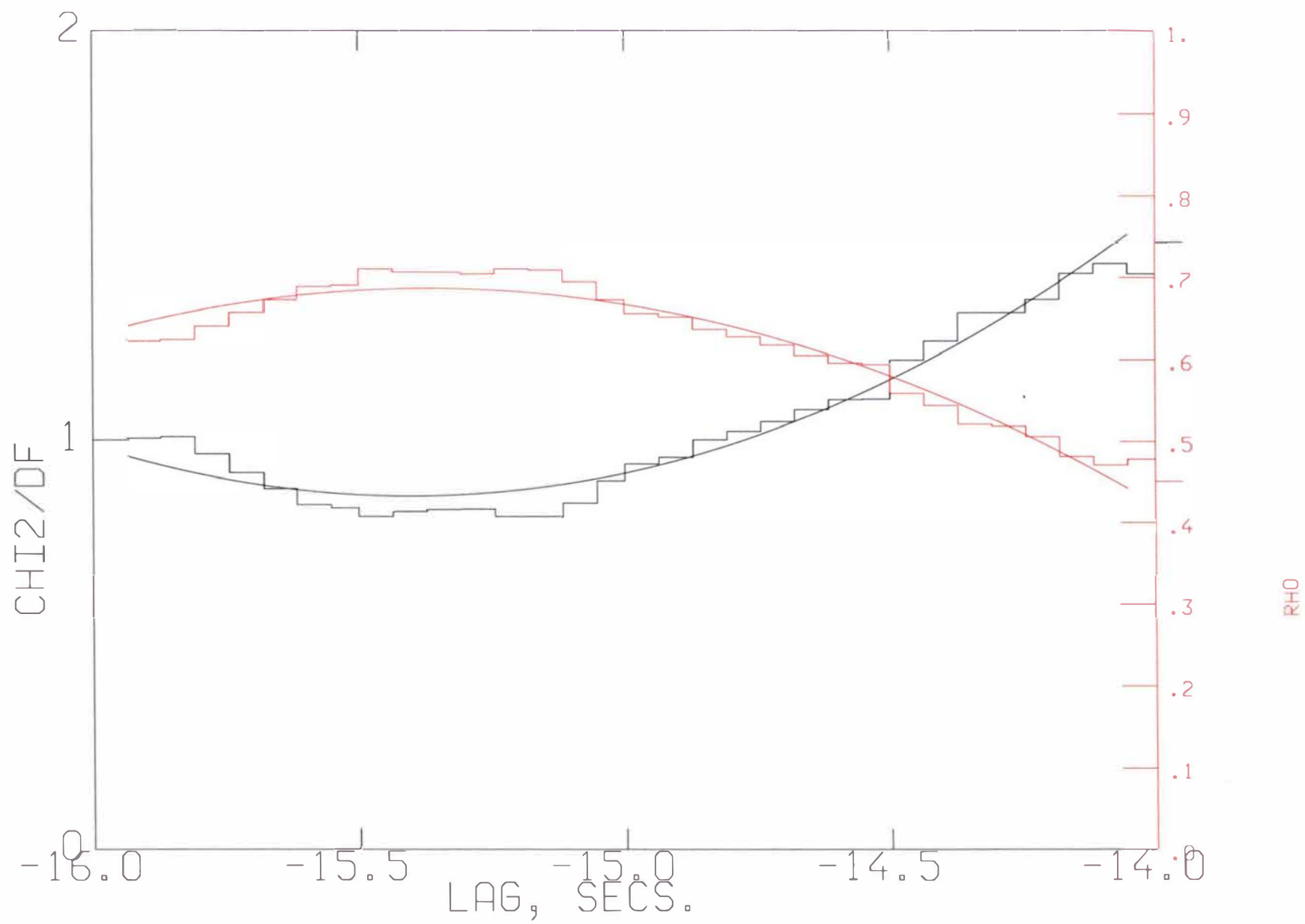


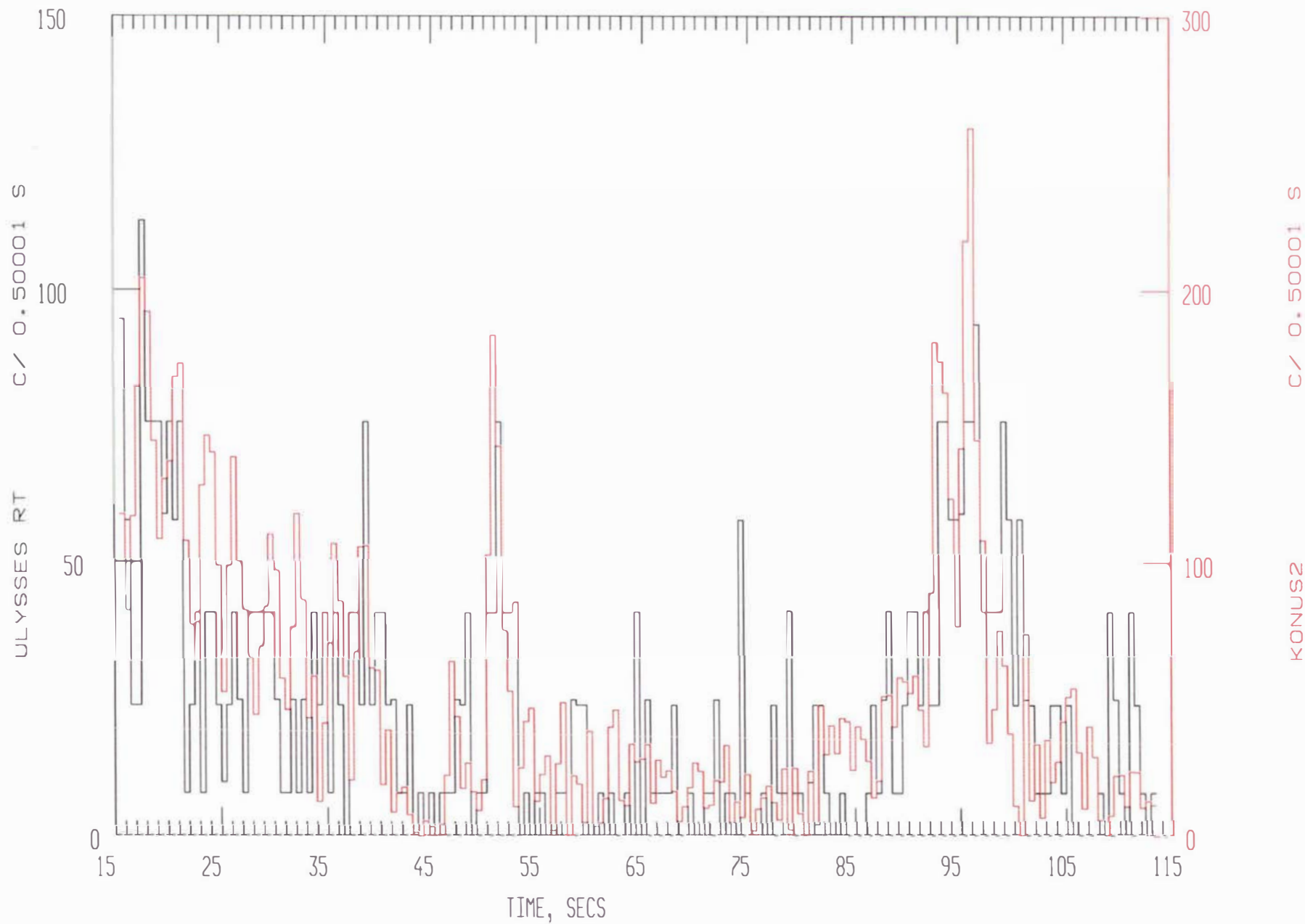
EVENT OF MAY 22, 1995 10:45

24/08/2011

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 19950522 38740

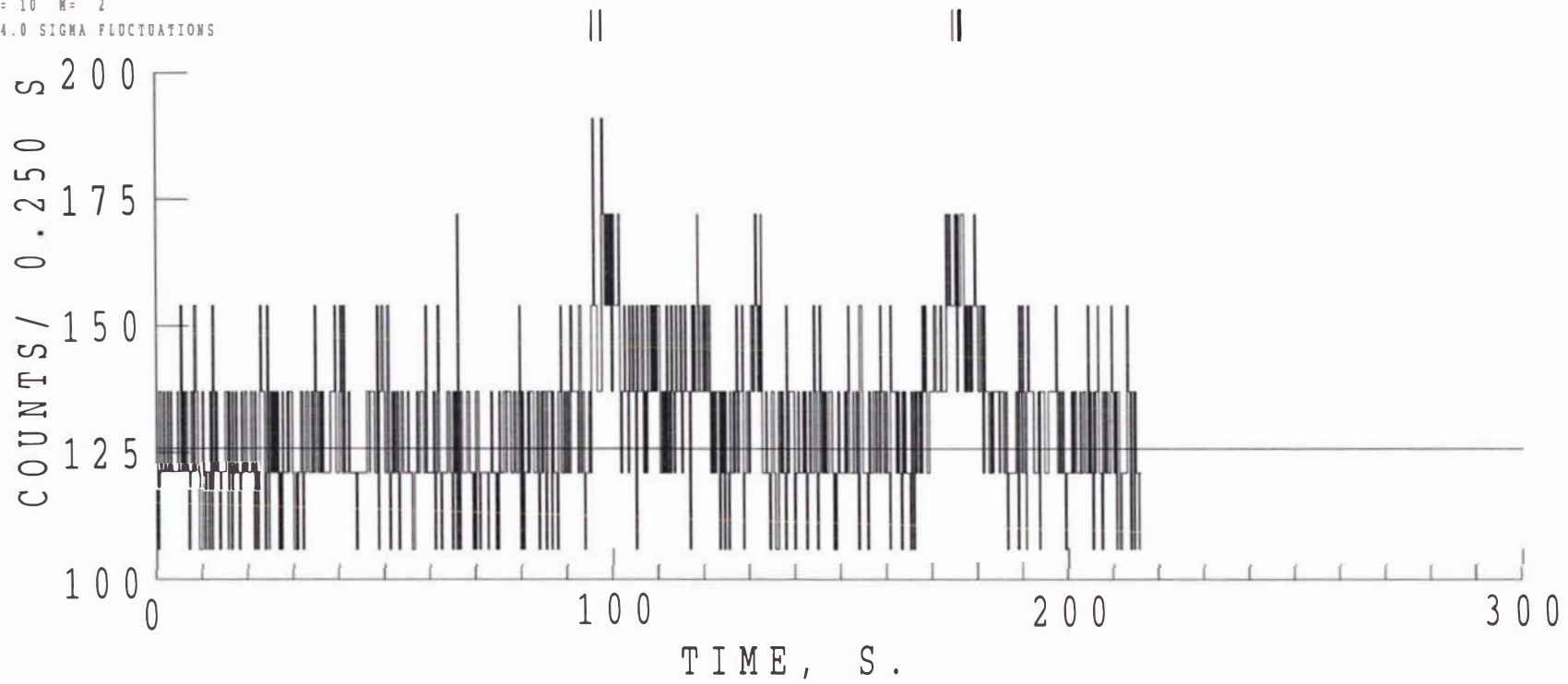
ULYSSES RT

23 / 08 / 11

22/05/95 38628.051 s

0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

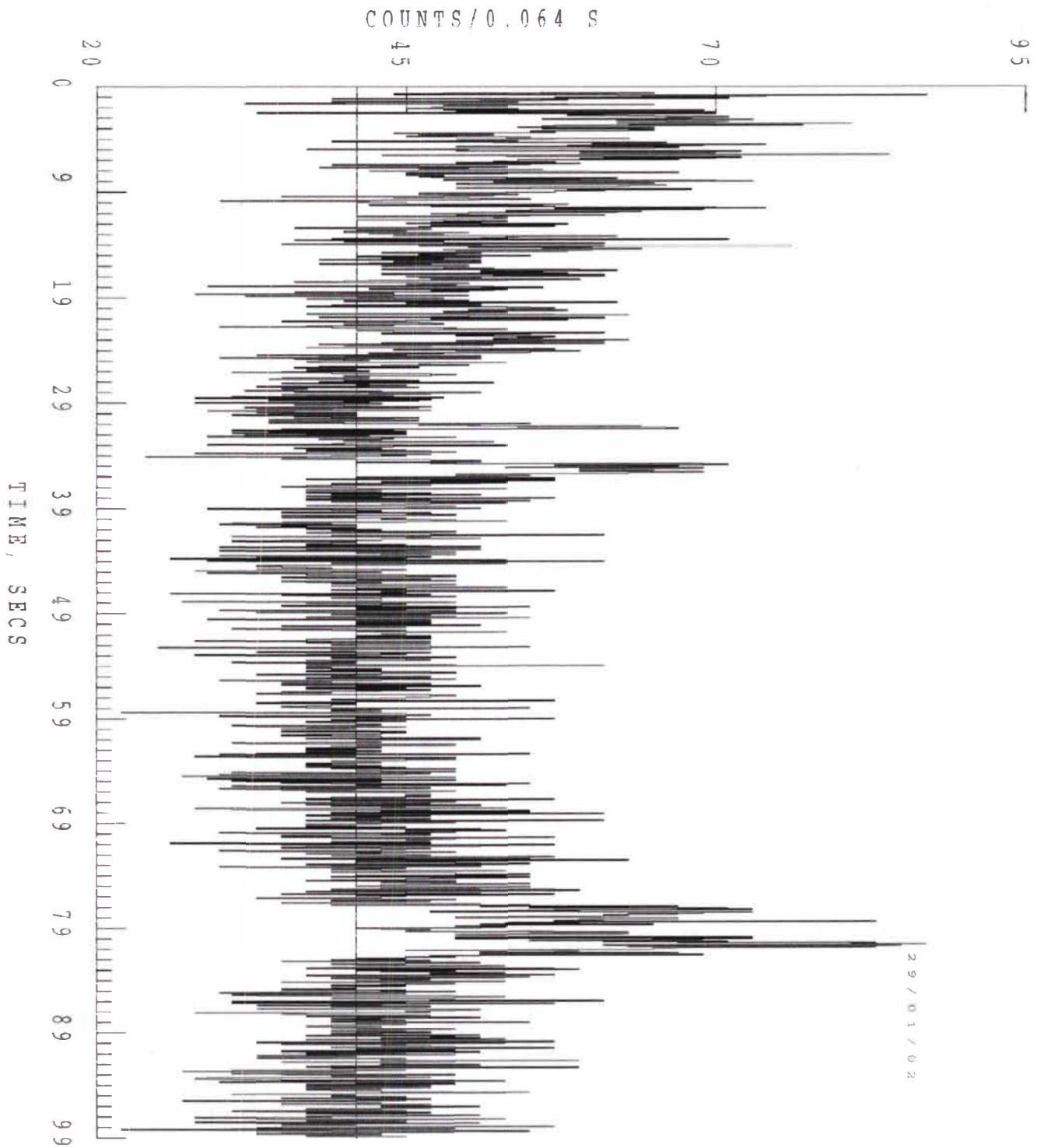


KONUS2

22/05/95

39404.307

50 - 200 keV



KONUS2 19950522 39404

ULYSSES RT

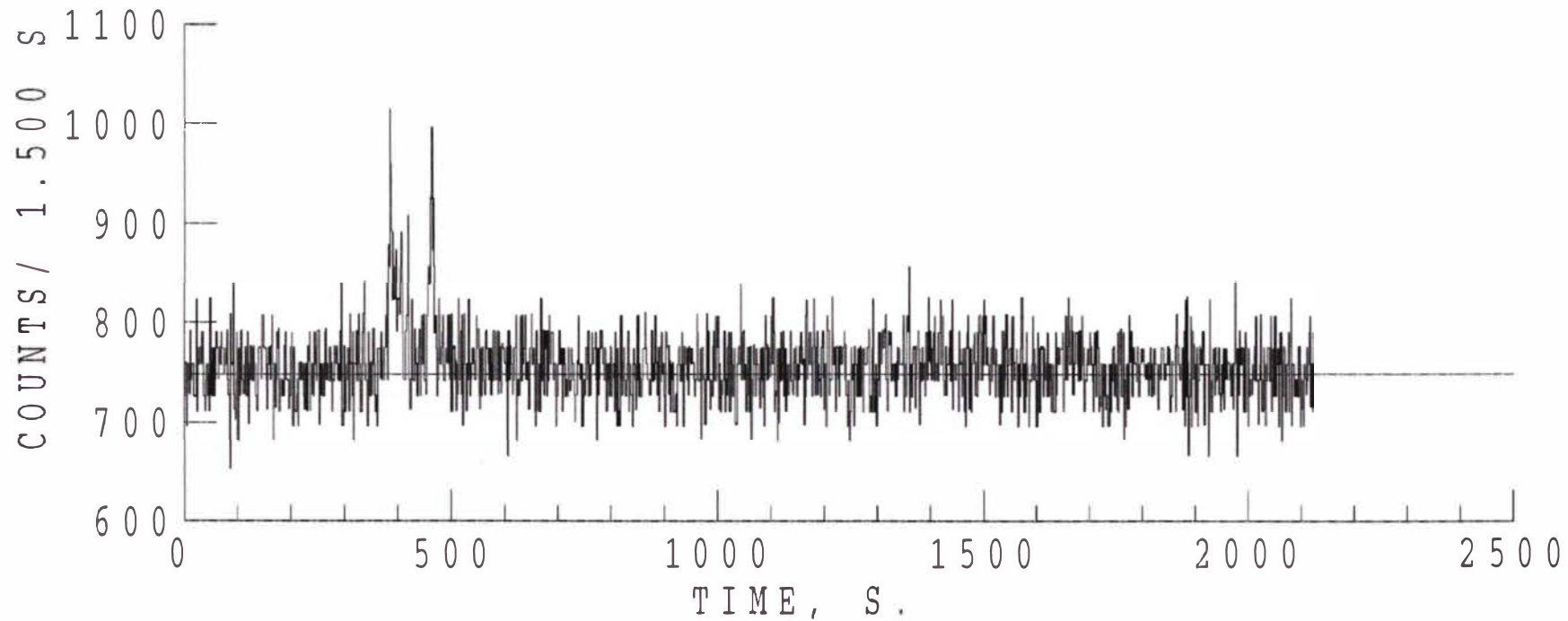
29 / ● 1 / 02

22/05/95 38340.047 s

0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

N= 10 M= 3
>4.0 SIGMA FLUCTUATIONS



300

From SAHI@ssl.msfc.nasa.gov Tue May 23 11:20 PDT 1995
Date: Tue, 23 May 1995 13:19:59 -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.: 3591

TIME: TJD=9859 SECONDS=72022

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From SAHI@ssl.msfc.nasa.gov Tue May 23 11:43 PDT 1995
Date: Tue, 23 May 1995 13:43:33 -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.: 3592

TIME: TJD=9859 SECONDS=80377

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT.

From SAHI@ssl.msfc.nasa.gov Tue May 23 11:48 PDT 1995
Date: Tue, 23 May 1995 13:48:03 -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.: 3593

TIME: TJD=9859 SECONDS=85283

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=34.7 AZIMUTH=288.3 ERROR= DEGREES

COMMENTS:

BURST. COMPLEX EVENT, DUR.~100 SECS, MAX. AT TRIGGER. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3593	950522	9859	85283	14000	110	+19	100

BATSE BURST # 3593

EVENT OF 1995 MAY 22 DAY OF YEAR=142

EVENT CROSSING TIME AT BATSE : 85283. S. OR 23:41:23.0

COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)

BURST ARRIVAL DIRECTION: 110.000 19.000

BATSE PEAK COUNTING RATE: 14000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND

INTERPOLATED POSITION OF ULYSSES ON 22/ 5/ 95 IS:

RA= 6.983 DEC= 42.298 DIST= 2.040 AU

BATSE-ULYSSES DISTANCE = 305112089. KM.

ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 93.53 DEG.

LIGHT TRAVEL TIME ALONG PROJECTED PATH= -62.67 SECS.

CROSSING TIME AT ULYSSES IS 85220. S. OR 23:40:20 +/- 225.41 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND

POSITION OF MARS ON 22/ 5/ 95 IS:

RA= 151.081 DEC= 13.506 DIST= 1.331 AU

MARS-BATSE DISTANCE = 199161264. KM.

ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=140.27 DEG.

LIGHT TRAVEL TIME ALONG PROJECTED PATH= -510.89 SECS.

CROSSING TIME AT MARS IS 84772. S. OR 23:32:52 +/- 65.97 SECONDS

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

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

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

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

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

COMPTEL/BATSE/IPN Burst Localizations

All Coordinates Epoch J2000.0

UB= Ulysses/BATSE UP = Ulysses/PVO BP= BATSE/PVO							BATSE Position					COMPTel Position				
		Center		Radius												
Burst	Rf	Ra	Dec	Raduis	(-/+)	D (AU)	Ra	Dec	lσ	Smin	Rf	Ra	Dec	lσ	Smin	
GRB910425	UB	1	115.140	23.172	51.733	0.053	2.848	91.29	-22.77	1.02	0.27	3	90.20	-22.20	0.92	0.28
GRB910503	UB	1	117.730	22.657	30.352	0.010	3.042	87.45	38.74	0.87	0.03	3	87.00	38.60	0.44	0.30
GRB910601	UB	1	307.038	-20.538	52.936	0.011	3.708	310.12	32.34	0.17	0.02	3	309.90	32.70	0.46	0.37
GRB910627	UB	1	134.824	18.425	66.820	0.031	4.215	197.99	-2.48	0.28	1.28	3	199.40	-5.00	1.63	0.96
	UP	1	133.523	18.792	68.352	0.036	3.621	-	-	-	1.53	-	-	-	-	0.71
GRB910709		NA	NA	NA	NA	NA	NA	172.77	81.67	2.31	NA	3	144.10	75.60	1.80	NA
GRB910814	UB	1	328.558	-13.966	45.699	0.018	4.918	346.35	30.43	0.48	1.89	3	343.80	29.50	0.39	0.19
	UP	1	328.287	-14.629	46.428	0.019	4.626	-	-	-	1.87	-	-	-	-	0.17
GRB911118	UB	1	166.979	6.889	30.110	0.017	4.972	167.03	-20.85	0.36	2.37	3	166.30	-22.50	1.11	0.71
	UP	1	162.619	8.562	32.018	0.019	4.248	-	-	-	2.29	-	-	-	-	0.75
	BP	1	190.131	-2.551	30.766	0.086	0.813	-	-	-	1.76	-	-	-	-	0.23
GRB920622	UB	1	150.167	6.667	41.335	0.009	5.800	162.1	47.17	0.31	0.43	3	162.50	49.20	0.81	2.44
GRB920627	UB	1	150.590	6.327	23.540	0.049	5.869	166.02	-2.58	0.65	5.74		166.80	-8.50	1.18	1.61
GRB920830	UB	1	338.192	0.949	86.268	0.018	?	258.53	-73.99	0.54	1.81	3	259.00	-74.50	1.35	1.78
GRB930118		NA	NA	NA	NA	NA	NA	228.40	-34.30	?	NA	4	221.80	-34.80	1.47	NA
GRB930131	UB	1	161.411	-14.563	22.256	0.011	4.218	182.04	-8.24	2.16	1.09	3	186.20	-7.90	1.77	2.93
GRB930309	UB	1	332.600	14.645	36.601	0.035	3.998	325.41	51.73	0.72	0.93	3	322.70	55.20	0.74	4.67
GRB930612	UB	1	143.974	-11.184	63.928	0.053	4.870	103.07	-69.76	0.4	0.07	3	106.50	-71.00	1.60	0.17
GRB930704	UB	1	146.146	-11.823	82.959	0.113	5.089	100.9	60.8	0.59	2.01	3	99.30	62.80	1.08	0.07
	BM	1	159.825	8.635	68.701	2.319	1.981	-	-	-	1.04	-	-	-	-	0.45
GRB931229		NA	NA	NA	NA	NA	NA	240.06	19.7	1.4	NA	3	241.90	21.00	2.35	NA
GRB940217	UB	1	328.736	51.947	69.334	0.050	3.038	29.07	4.55	0.69	0.84	3	30.10	3.10	0.32	0.94
GRB940301	UB	1	321.914	52.508	59.395	0.136	2.953	103.51	64.35	0.35	0.02	3	102.70	64.00	0.40	0.17
GRB940314	UB	1	314.850	51.972	64.530	0.220	?	354.86	-2.14	0.94	0.77	3	356.00	-1.40	1.43	0.92
GRB940520	UB	1	300.149	41.387	40.380	0.133	2.986	323.5	6.93	0.88	0.16	3	324.70	7.70	0.70	0.27
GRB940619	UB	1	303.998	39.140	69.375	0.211	3.039	299.05	-29.89	0.34	0.20	3	298.50	-31.50	1.15	1.44
GRB940708	UB	1	308.119	39.489	17.431	0.038	?	301.58	24.66	1.02	1.61	3	300.50	22.70	1.03	0.56
GRB940728	UB	1	133.614	-41.397	36.245	0.131	?	85.49	-39.87	1.44	0.17	3	85.10	-38.00	1.10	0.75
GRB940921	UB	2	155.516	-55.210	54.361	0.121	2.583	196.59	-18.71	?	6.49	4	207.10	-16.40	0.68	0.75
GRB941017		NA	NA	NA	NA	NA	NA	302.63	11.10	?	NA	4	301.70	13.30	2.10	NA
GRB950208	UB	2	334.715	-27.012	83.397	0.022	2.301	337.06	54.19	?	2.17	4	344.80	56.00	1.95	0.05
GRB950421	UB	2	177.048	-19.097	81.048	0.226	2.171	71.92	-63.03	?	1.41	4	70.10	-61.70	1.43	0.11
GRB950425	UB	2	178.121	-21.566	17.005	0.207	2.154	163.16	-35.21	?	1.90	4	164.90	-33.80	0.34	0.11
GRB950522	UB	2	7.656	42.578	86.989	0.063	2.039	109.57	19.31	?	1.60	4	110.81	20.34	1.14	1.47
1 Hurley, K. et al Huntsville workshop (1995)							Smin = minimum distance between point and IPN annulus									
2 BACODINE/IPN burst alert messages (Hurley)																
3 BATSE 3B Catalog																
4 Meegan, C. Priv. Comm. (Trigger Messages)																

Helio corr removed

Date: *Feb 14 '98*

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

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

2. BATSE Data

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

3. PVO Data

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

- ☒ ACCESS database updated?

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

G=GALACTIC EQUATOR

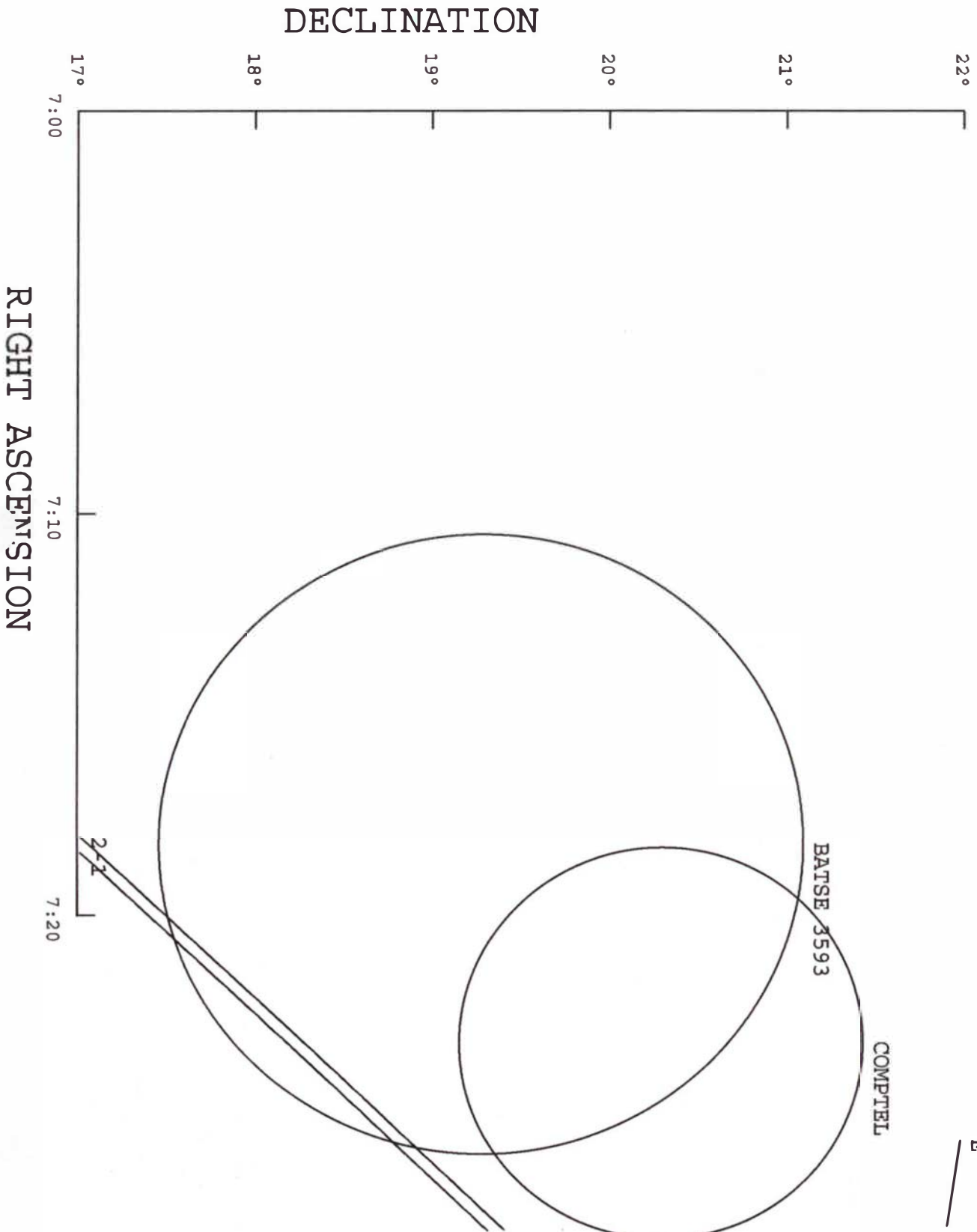
1 ULYSSES

2 BATSE

EVENT OF MAY 22, 1995 23:39

14 / 2/98

E



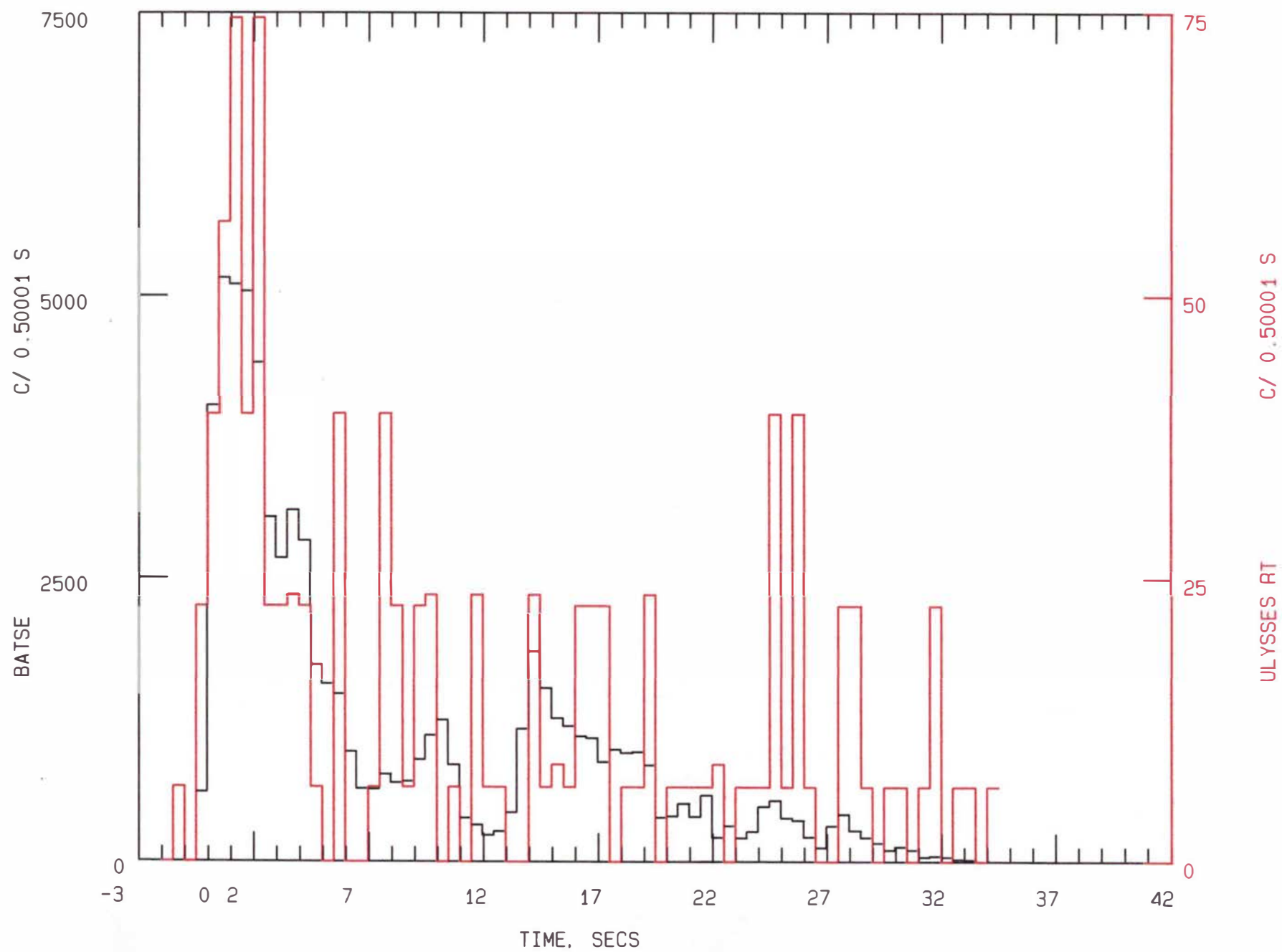
BATSE

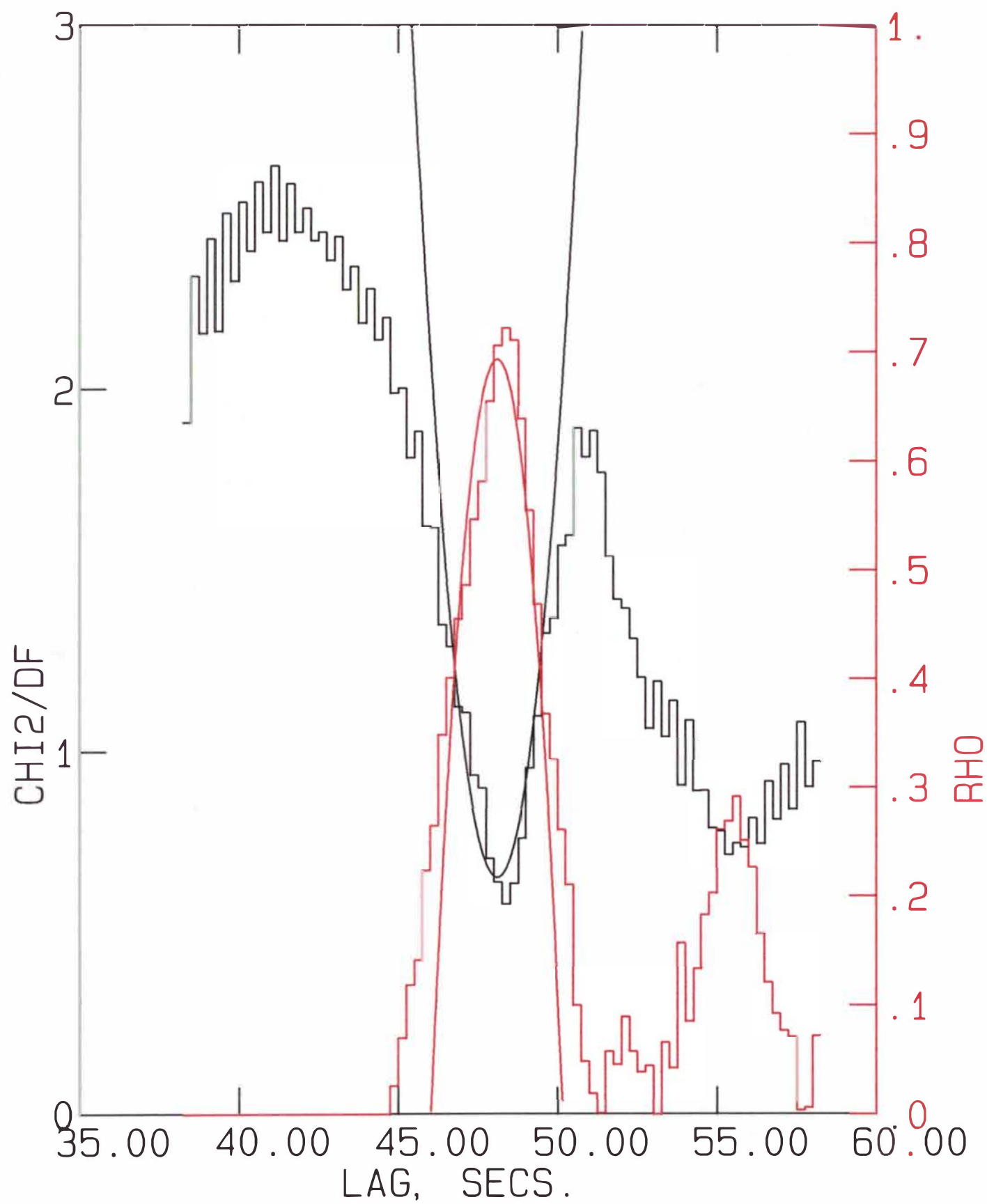
-ULYSSES RT CORRELATION

22/ 5/95

85283.186

14/ 2/98





ULYSSES RT

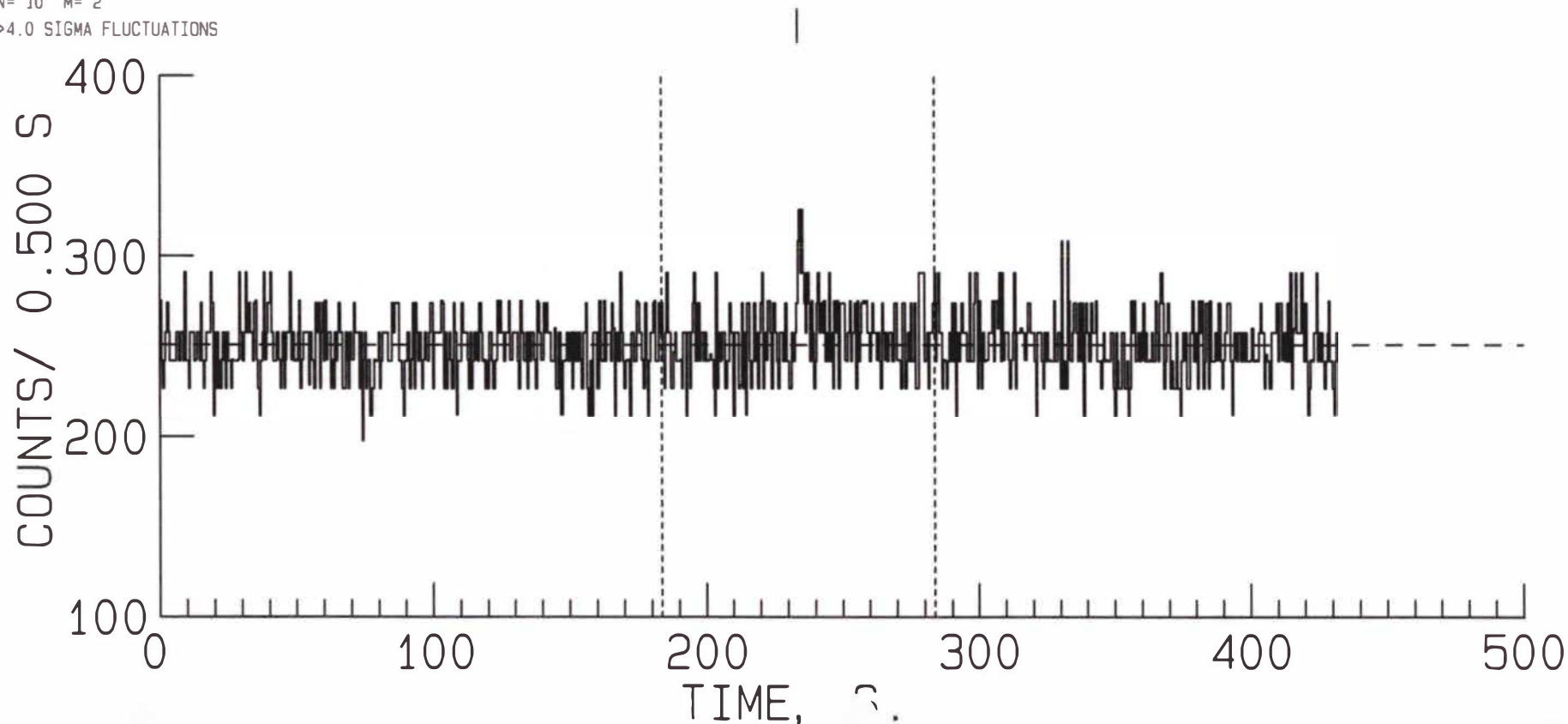
14 / 2 / 98

22 / 5 / 95 84996.172 s

0.250 S INTERVALS REGROUPED BY 2

21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



ULYSSES RT

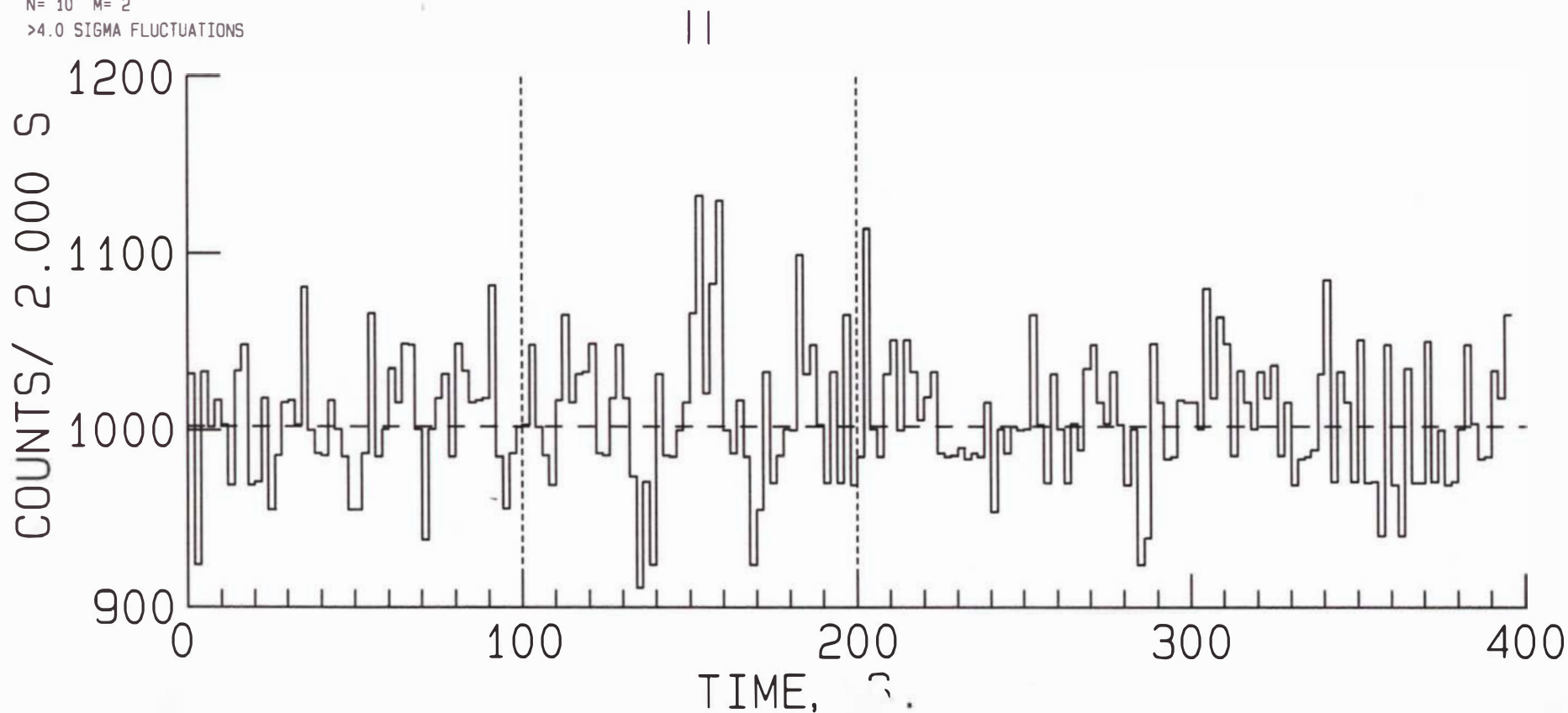
14 / 2 / 98

22 / 5 / 95 24372.031 s

0.250 S INTERVALS REGROUPED BY 8

21- 141 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



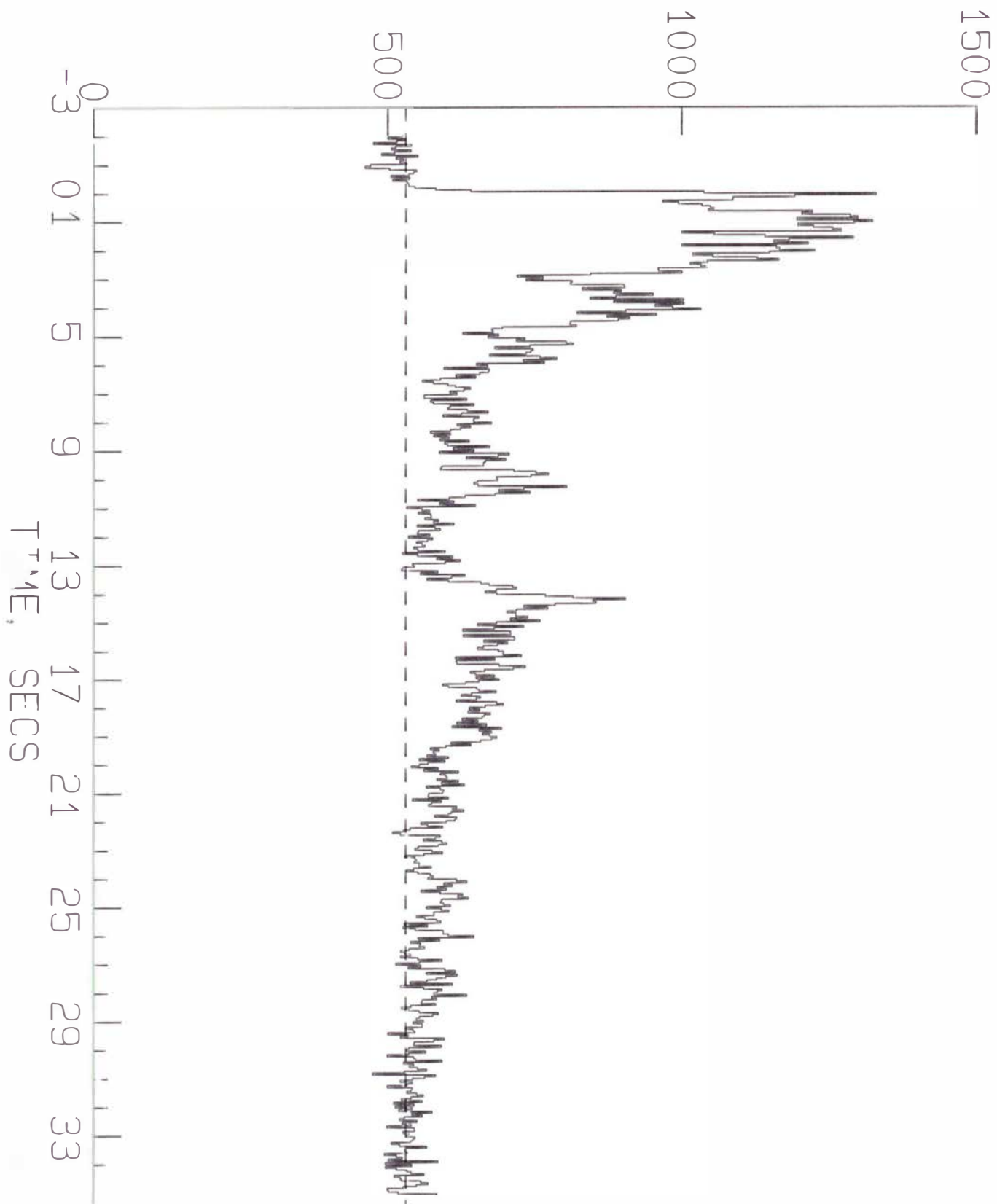
BATSE

22/05/95

85283.186

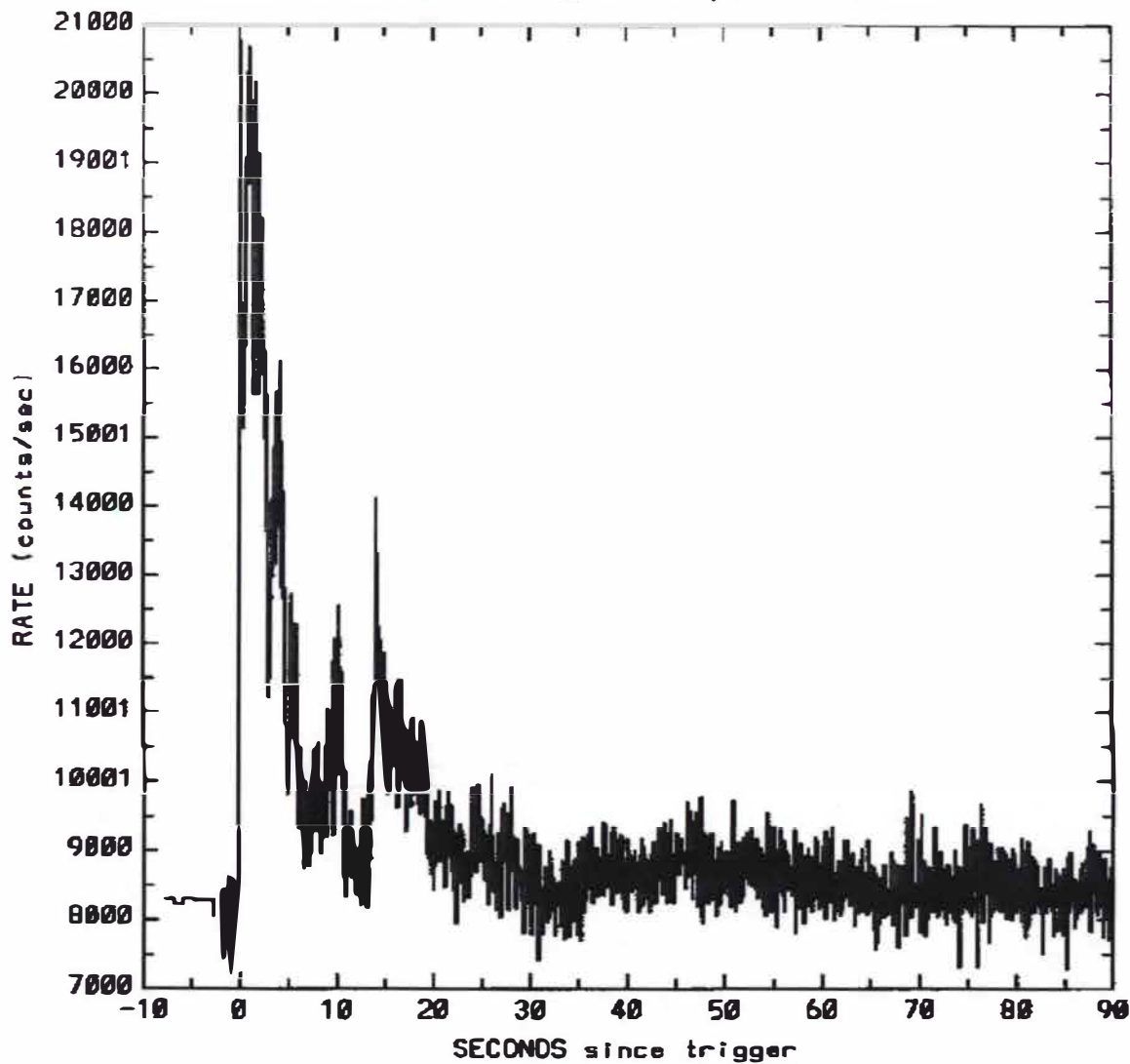
25- 100 keV

COUNTS/ .064 S



95 05 22

DISCSC Data for K. Hurley, No. 3593

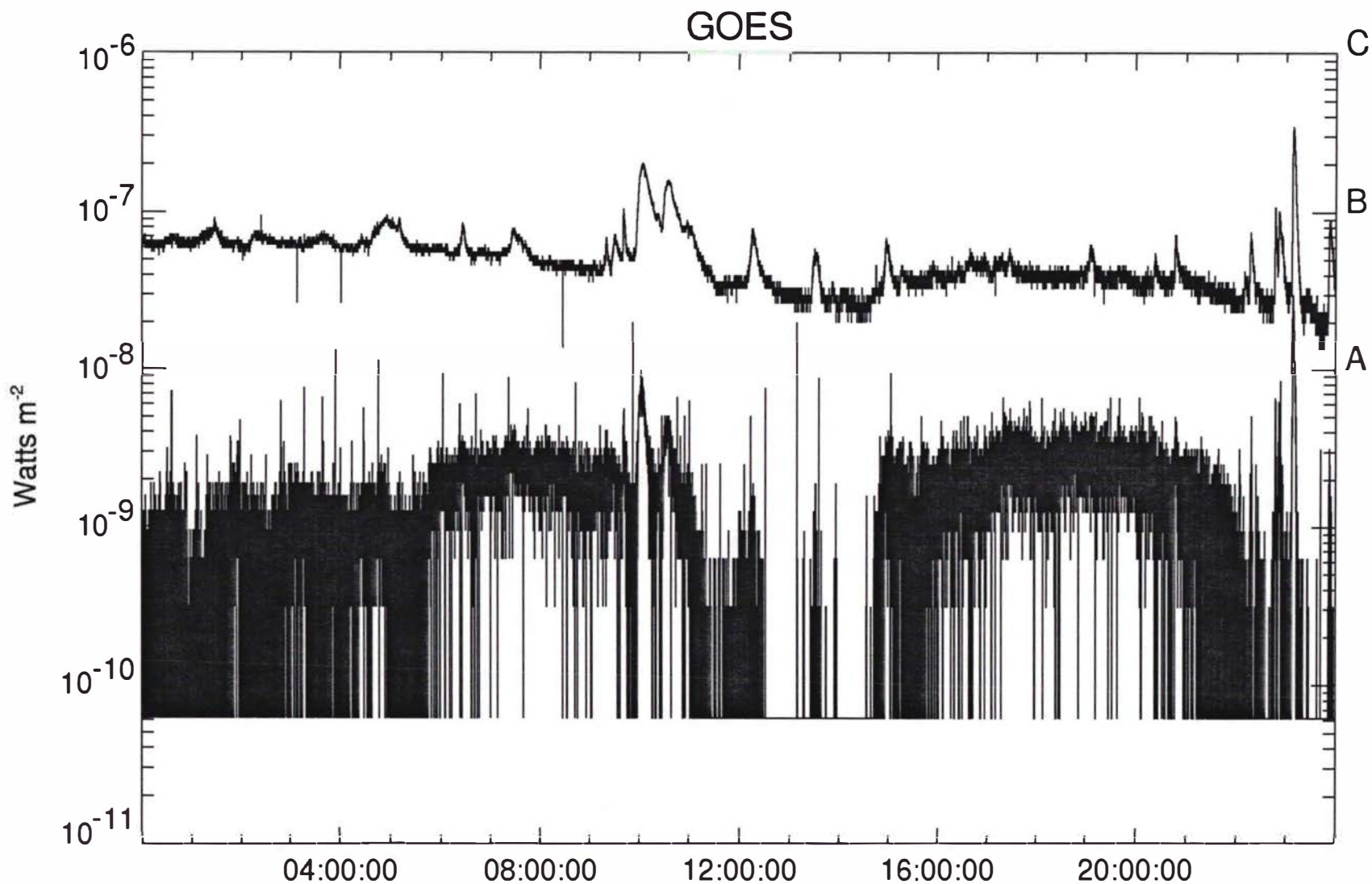


9-JUN-1995 08.39.37

Created by MOPS BD
{Burst Display}
Version t2.25

Trigger # . 3593

Trigger Time.
9859 / 05283.186Burst Data Type.
DISCSCDeadtime
Corrected. N
Background Data
Type. PREB + DISCLA
Minimum Integ. Time.
0.004 second(s)Detectors [7..8].
76--2--Discriminators.
{ 1 , 2 }Quality Mask.
BDISP1



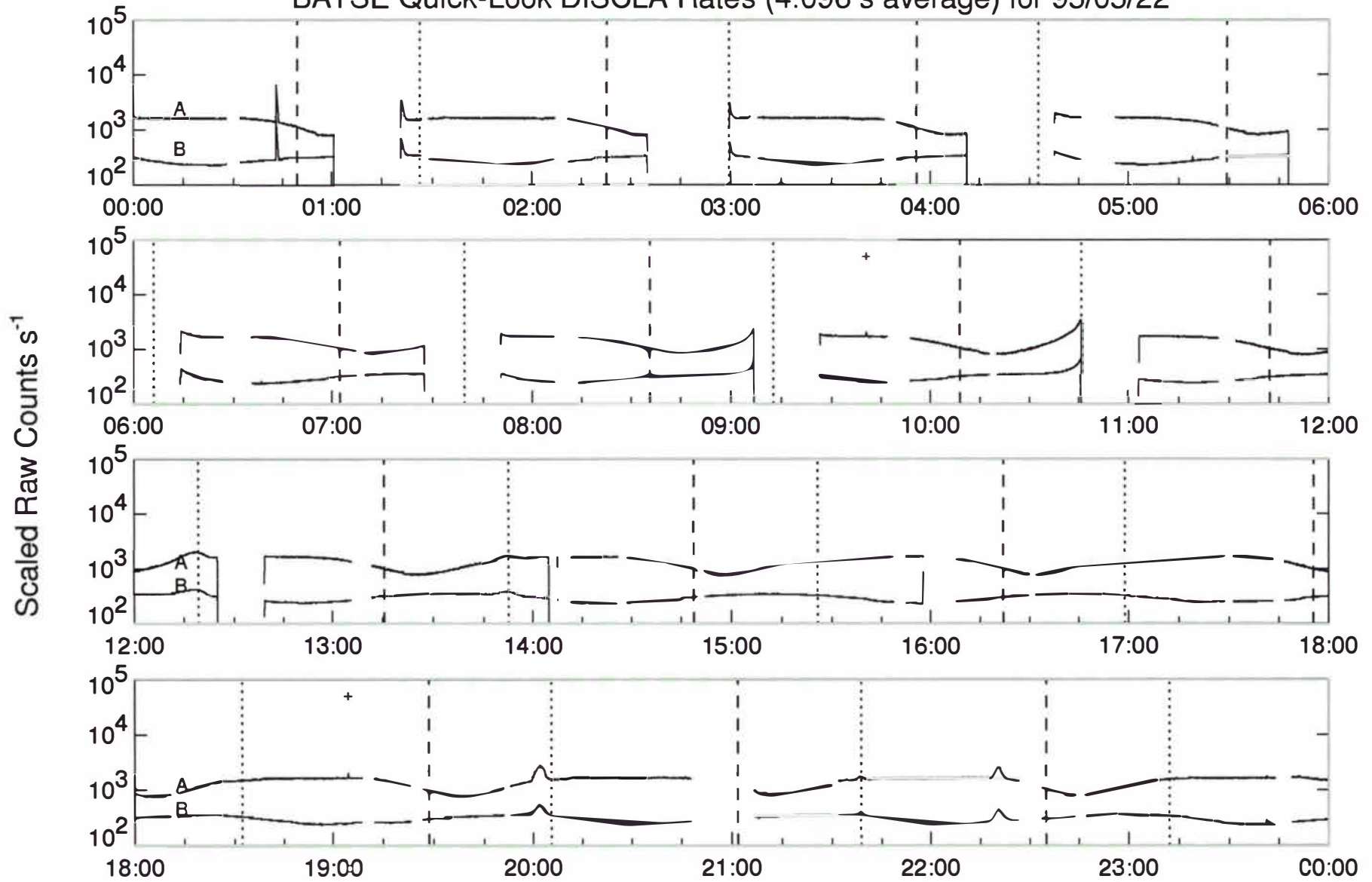
Data Start: 95/05/22, 0000:01

Plot created: 95/05/24, 0528

Channel 1 (1.0 - 8.0 Angstroms) Background not subtracted

2 (0.5 - 4.0 Angstroms) Background not subtracted .

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/22



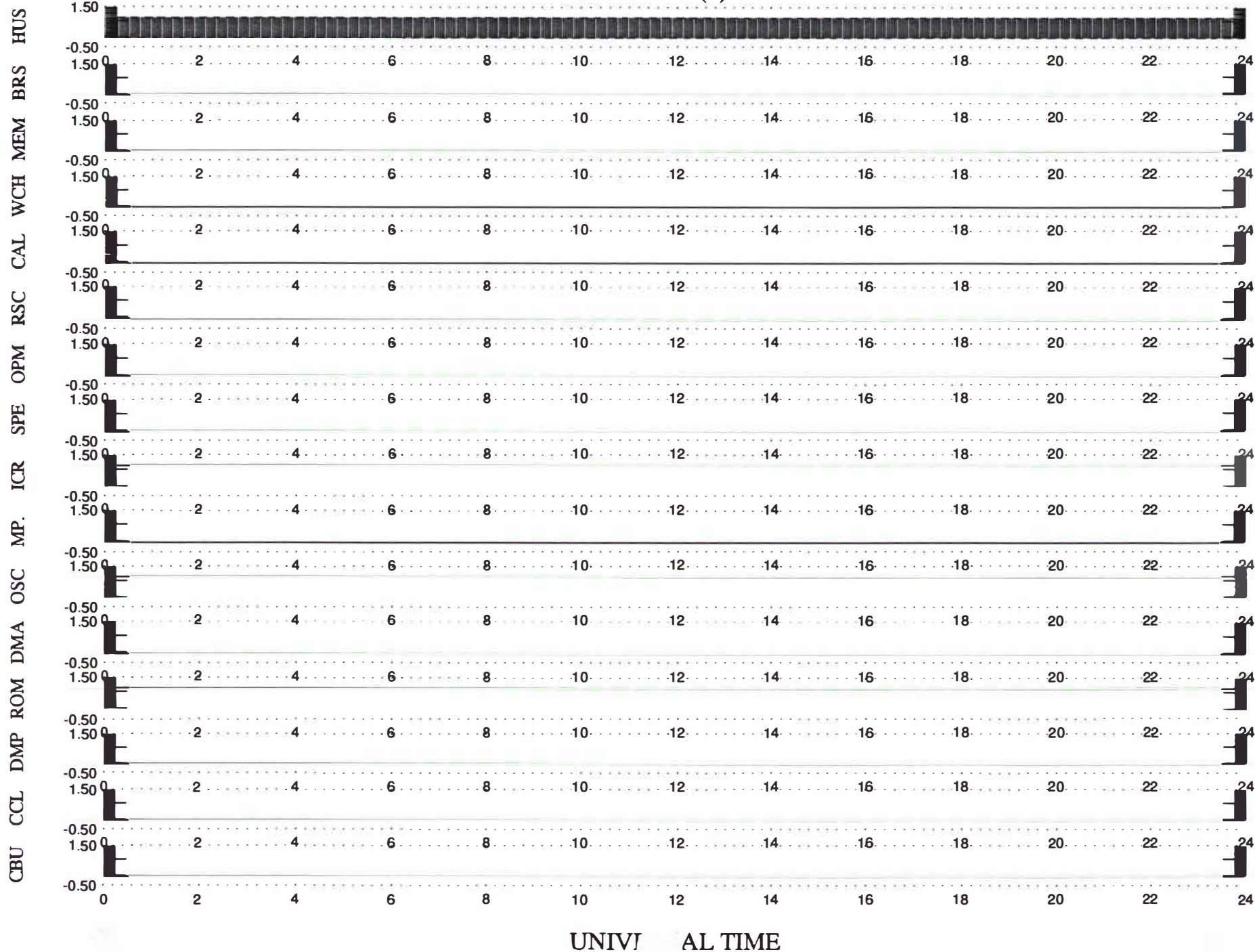
Current Time: 95/05/24, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

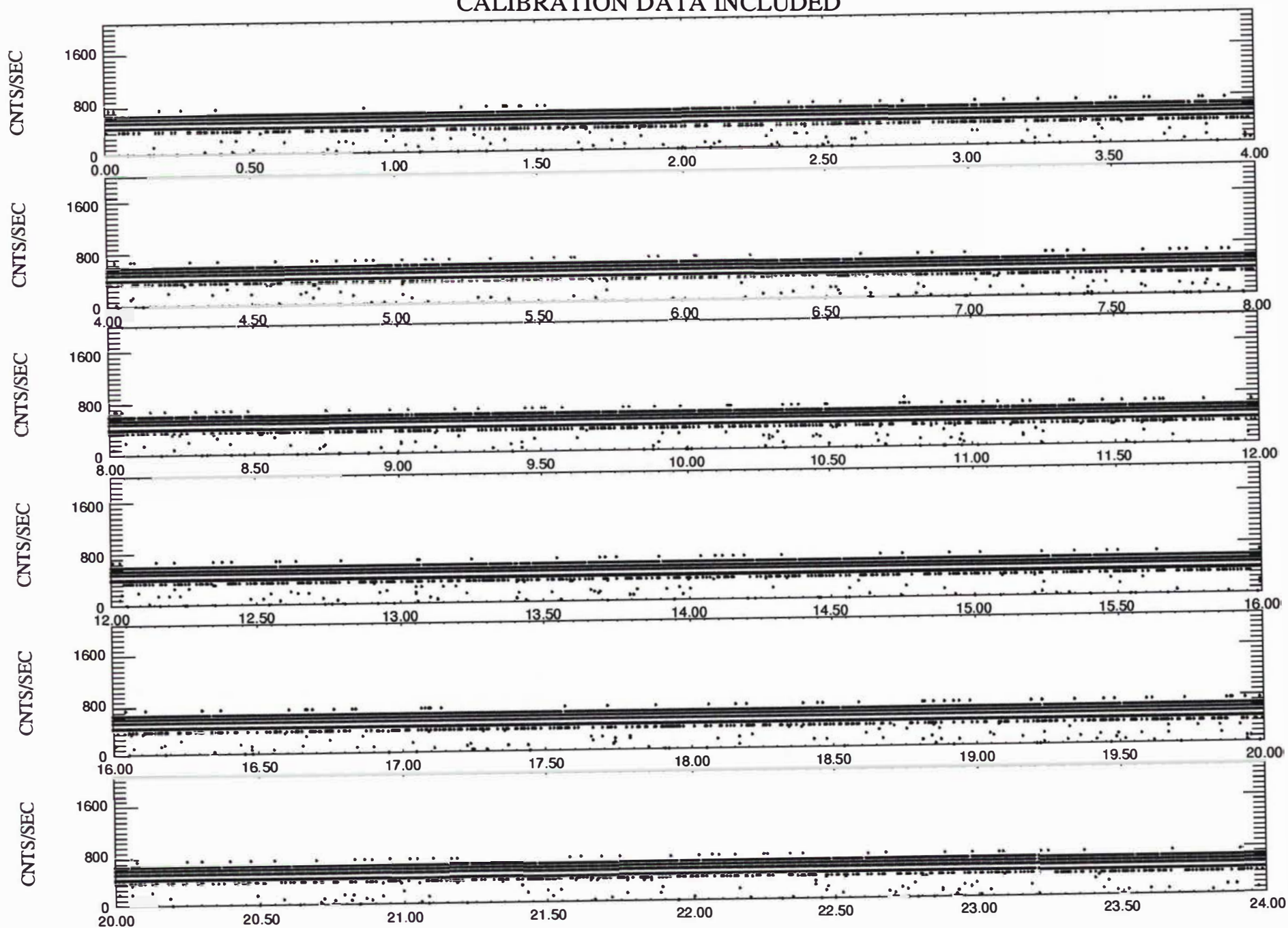
HUS MODES EDR day 142, year 1995 to day 142, year 1995
NO BURST (3)

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 142, year 1995 to day 142, year 1995
CALIBRATION DATA INCLUDED

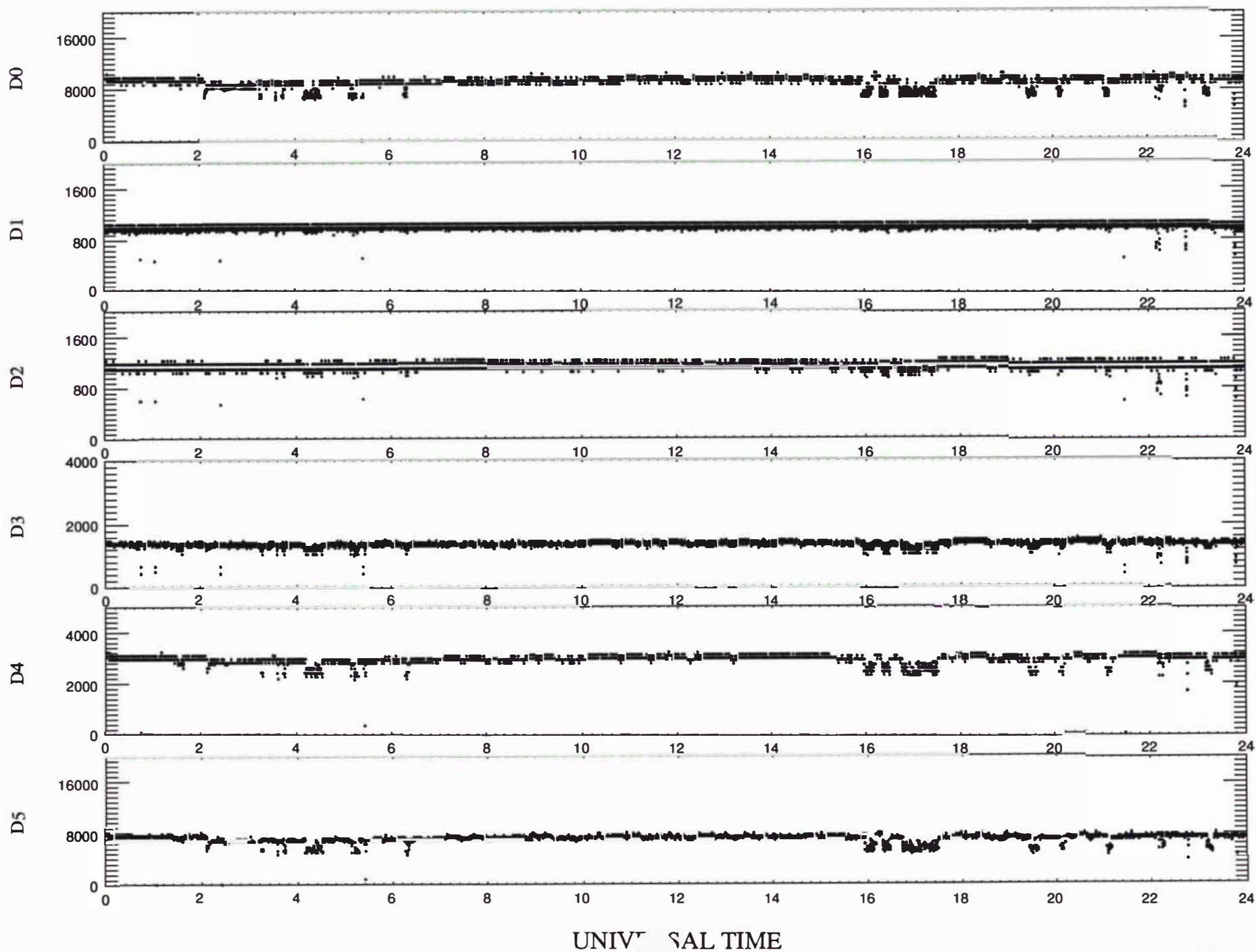
11/21/95



UNIV. TIME

HUS 2B COUNTS / SEC QEDR day 142, year 1995 to day 142, year 1995

5/23/95



From RICHARDSON@ssl.msfc.nasa.gov Fri May 26 07:19 PDT 1995
Date: Fri, 26 May 1995 9:18:58 -0500 (CDT)
From: RICHARDSON@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3594

BATSEARCH PROGRAM

RI
But time histories dissimilar

BATSE BURST # 3594
EVENT OF 1995 MAY 23 DAY OF YEAR=143
EVENT CROSSING TIME AT BATSE : 20369. S. OR 05:39:29.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 91.000 38.000
BATSE PEAK COUNTING RATE: 5500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 23/ 5/ 95 IS:
RA= 7.079 DEC= 42.493 DIST= 2.039 AU
BATSE-ULYSSES DISTANCE = 305012398. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=118.52 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -485.72 SECS.
CROSSING TIME AT ULYSSES IS 19883. S. OR 05:31:23 +/- 197.83 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 23/ 5/ 95 IS:
RA= 151.496 DEC= 13.331 DIST= 1.340 AU
MARS-BATSE DISTANCE = 200436976. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=121.30 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -347.39 SECS.
CROSSING TIME AT MARS IS 20022. S. OR 05:33:41 +/- 93.90 SECONDS

BATSE BURST TRIGGER

NO.: 3594

TIME: TJD=9860 SECONDS=20369

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=45.3 AZIMUTH=324.0 ERROR= DEGREES

COMMENTS:

GRB, WITH LOTS OF STRUCTURE, LASTING APROX. 90SEC. NOT VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3594	950523	9860	20369	5500	091	+38	90

Helps can removed

Date: Oct 21 '98

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

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

2. BATSE Data

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

3. PVO Data

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

N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

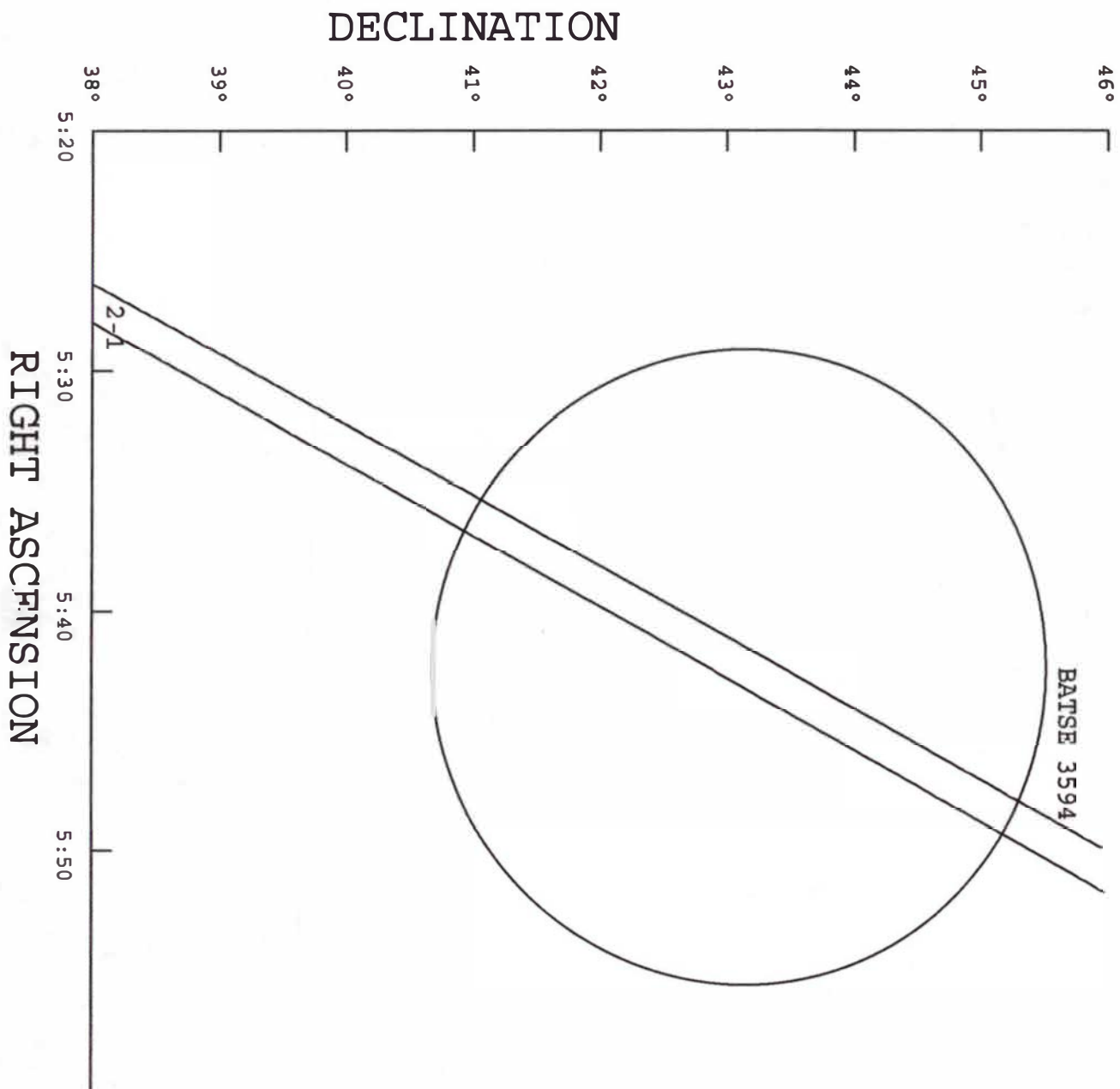
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF MAY 23, 1995 5:28

7 / 3 / 98



N-M = CORRELATION BETWEEN SATELLITES N AND M

EARTH-N = EARTH AS SEEN FROM SATELLITE N

S=SUN

E=ECLIPTIC

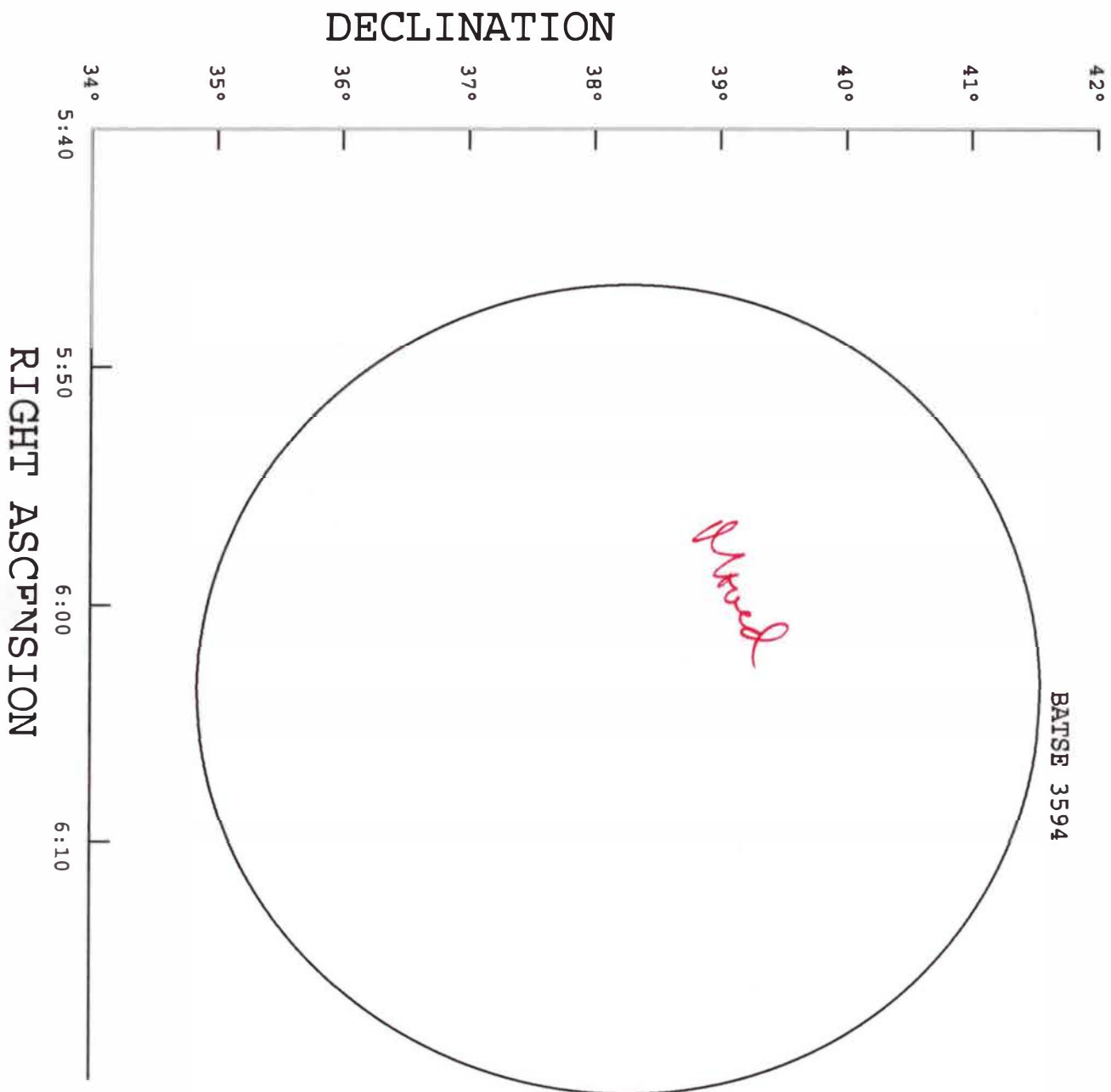
G=GALACTIC EQUATOR

1 ULYSSES

2 BATSE

EVENT OF MAY 23, 1995 5:28

3/11/97



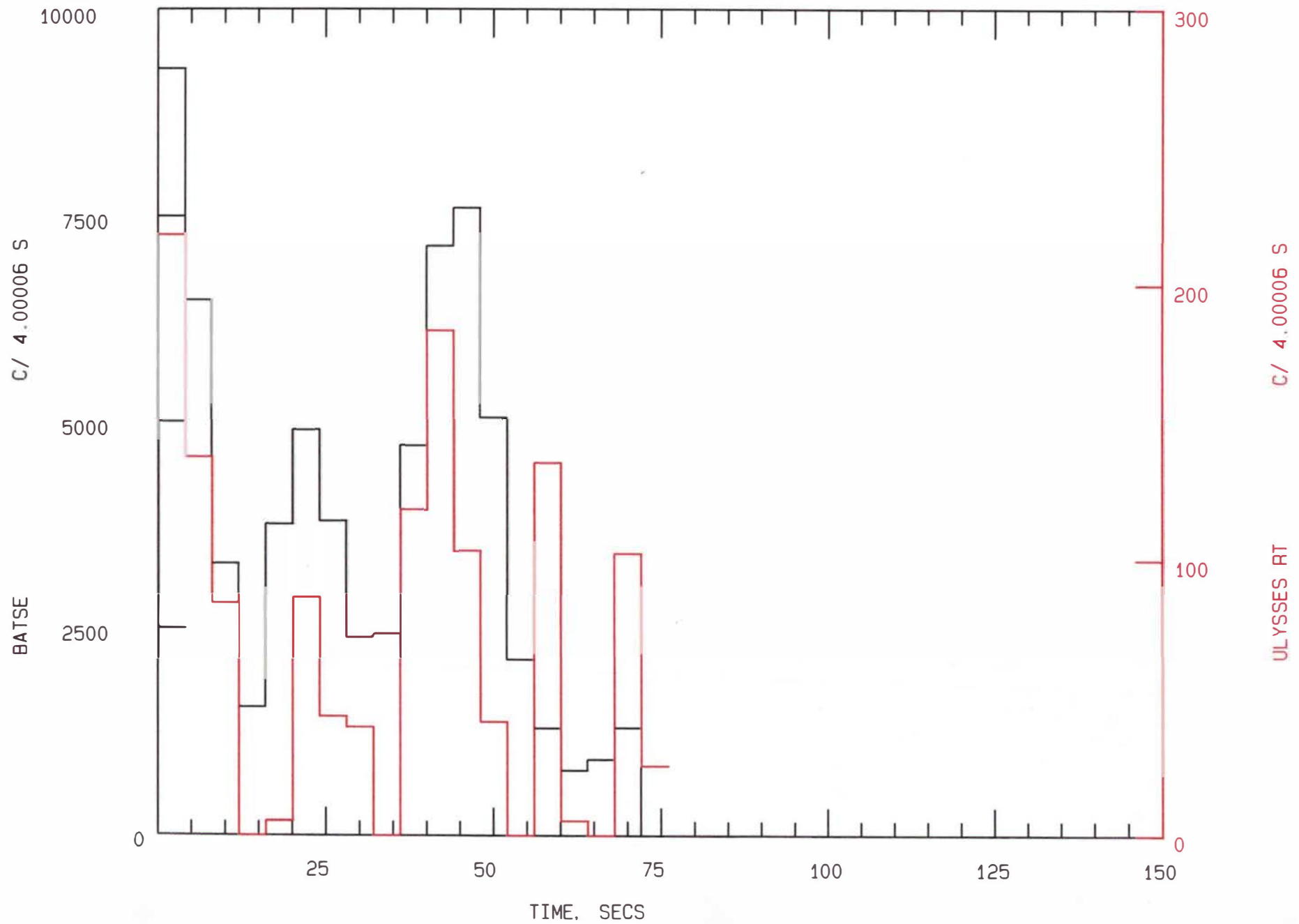
BATSE

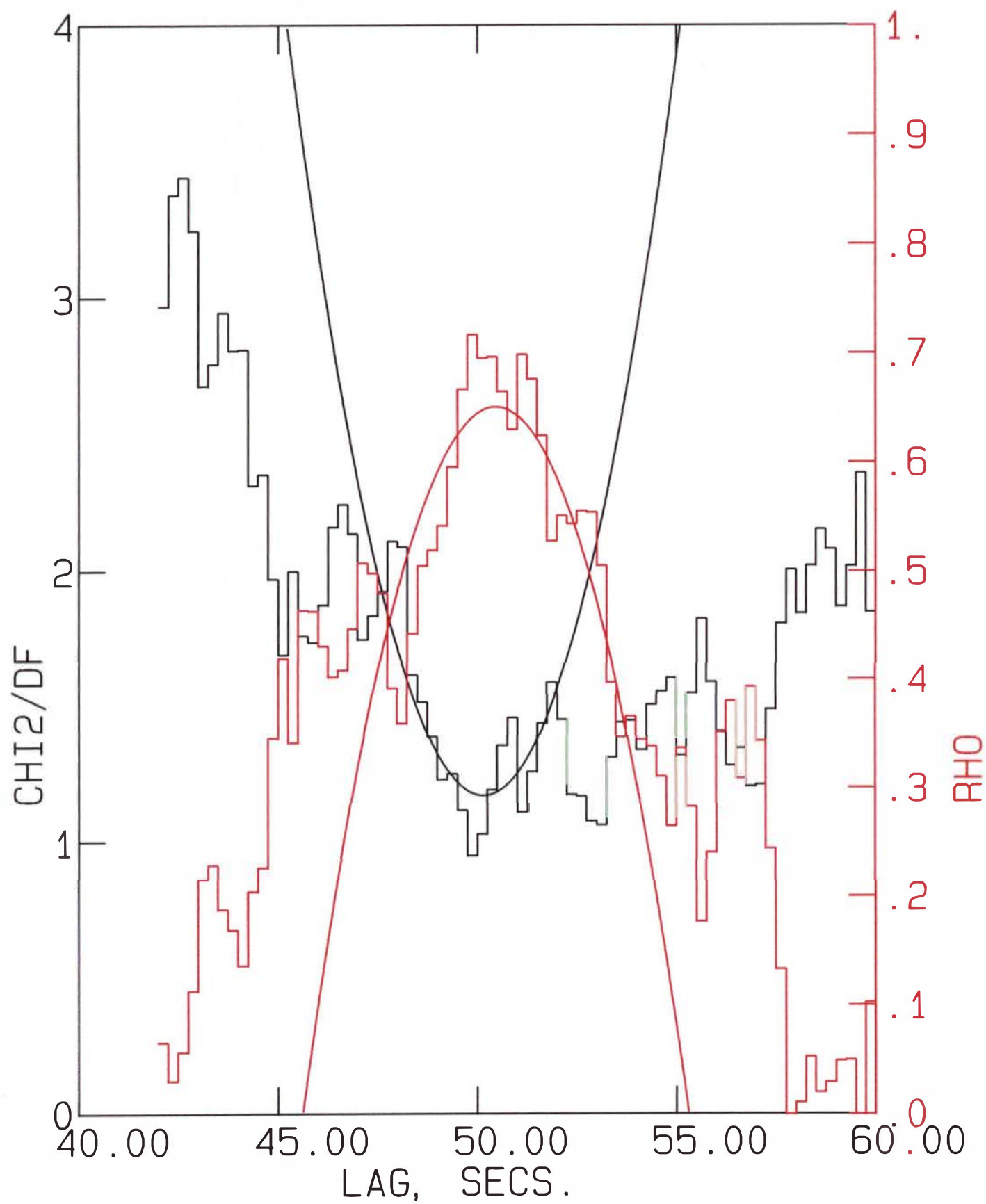
-ULYSSES RT CORRELATION

23/ 5/95

20369.074

3/11/97





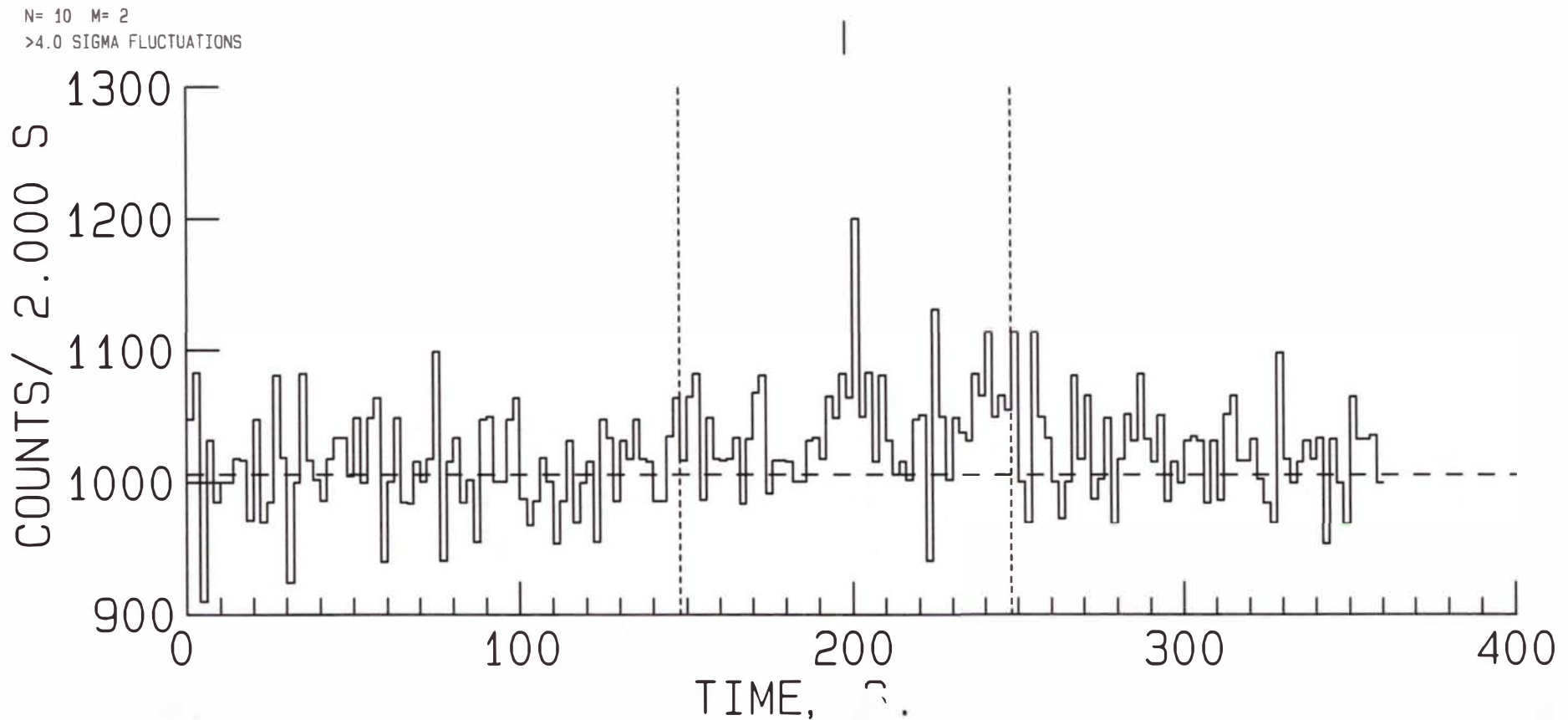
ULYSSES RT

3 / 1 1 / 97

23/ 5/95 19584.066 s

0.250 S INTERVALS REGROUPED BY 8

21- 141 keV



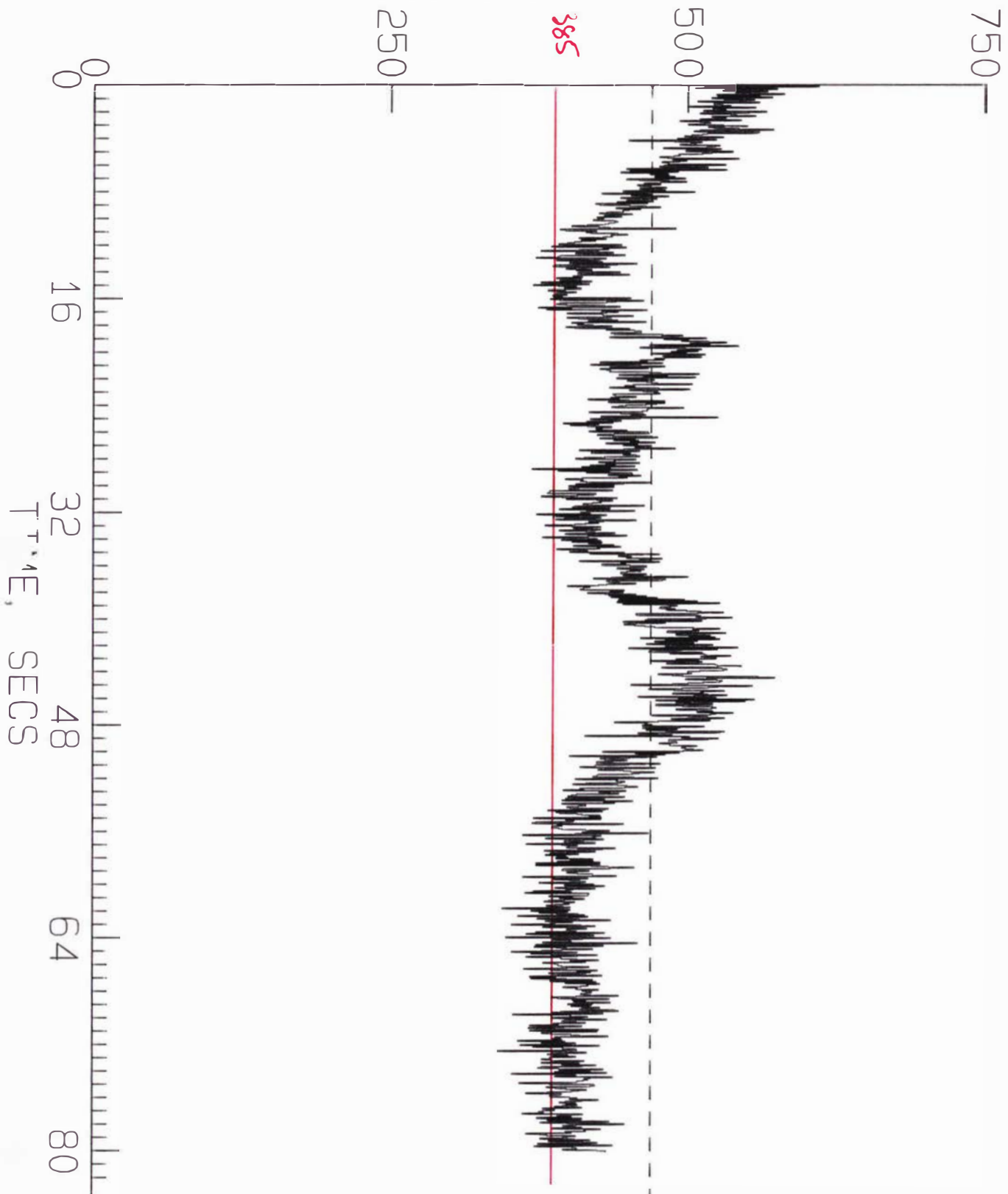
BATSE

23/05/95

20369.074

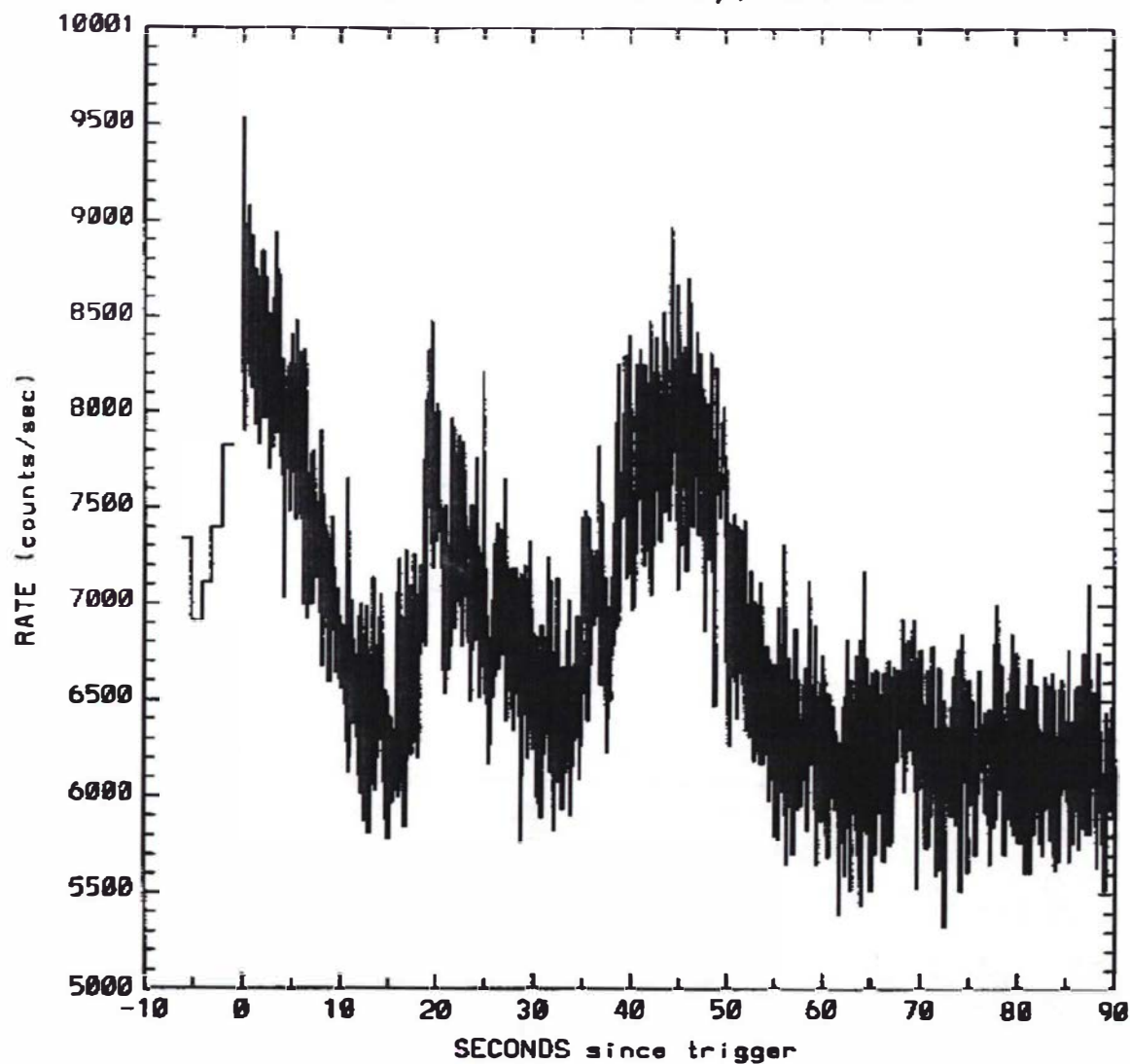
25- 100 keV

COUNTS/ .064 S



950523

DISCSC Data for K. Hurley, No. 3594



9-JUN-1995 08.41.58

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

Trigger # : 3594

Trigger Time:
9860 / 20369.074Burst Data Type:
DISCSCDeadtime
Corrected: NBackground Data
Type: PREB + DISCLAMinimum Integ. Time:
0.064 secondsDetectors {7..01.
-----2-0Discriminators:
{ 1 . 2 }Quality Mask:
BDISP1

Date: Mar 11 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Is the order of the data in CORREL such that a vernier is done on the data with the best time resolution?

2. BATSE Data

- ☐ BATSE ephemeris for T_0 ?
- ☐ Error circle position and radius from public catalog used?
- ☐ If MER data were used, is a 30 ms systematic error included?

3. NEAR Data

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

4. For Konus events

- ☐ Konus ecliptic latitude used with latest calibration?

5. For 3 Spacecraft events

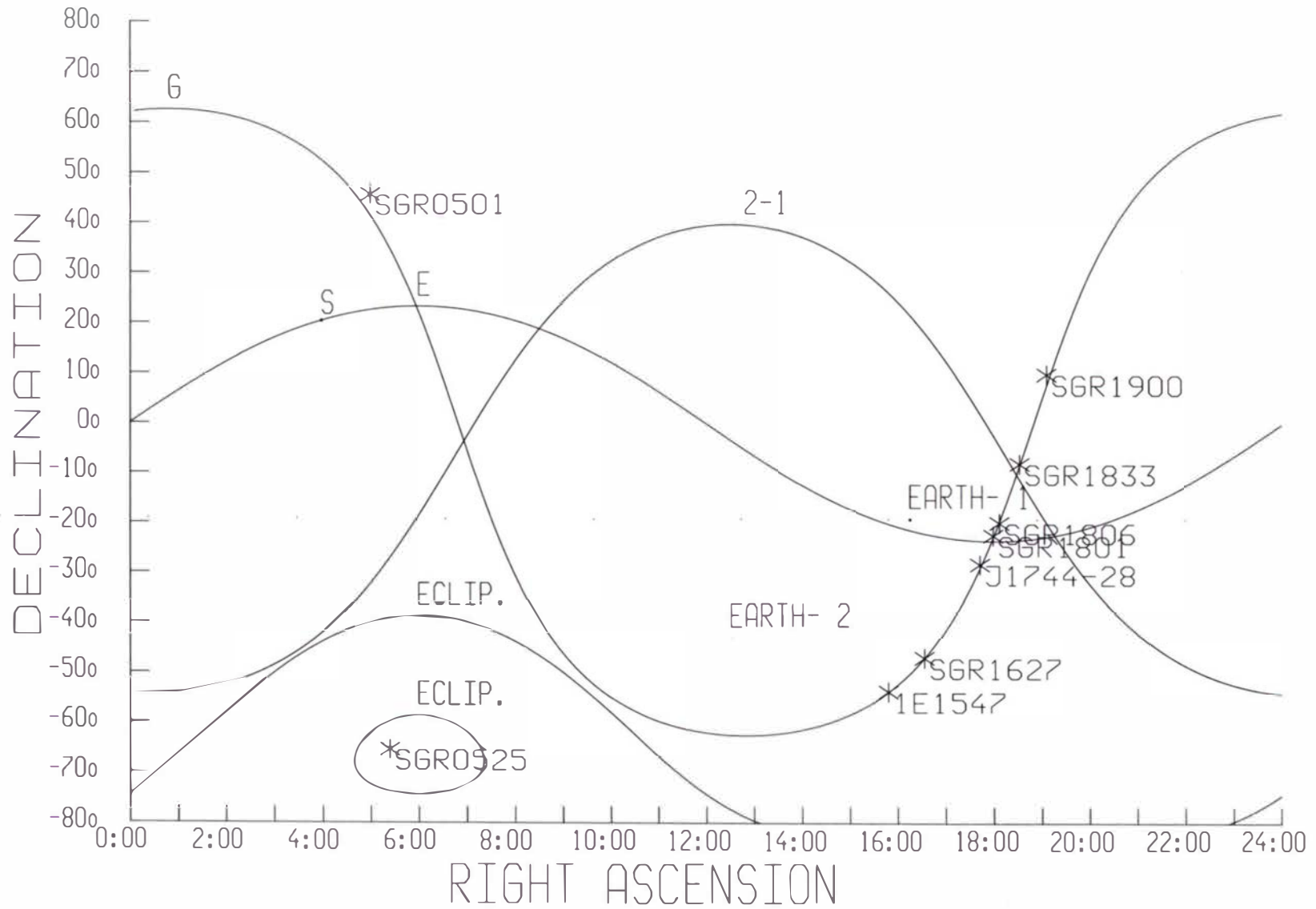
- ☒ $\Sigma 3\Delta t$'s calculated?

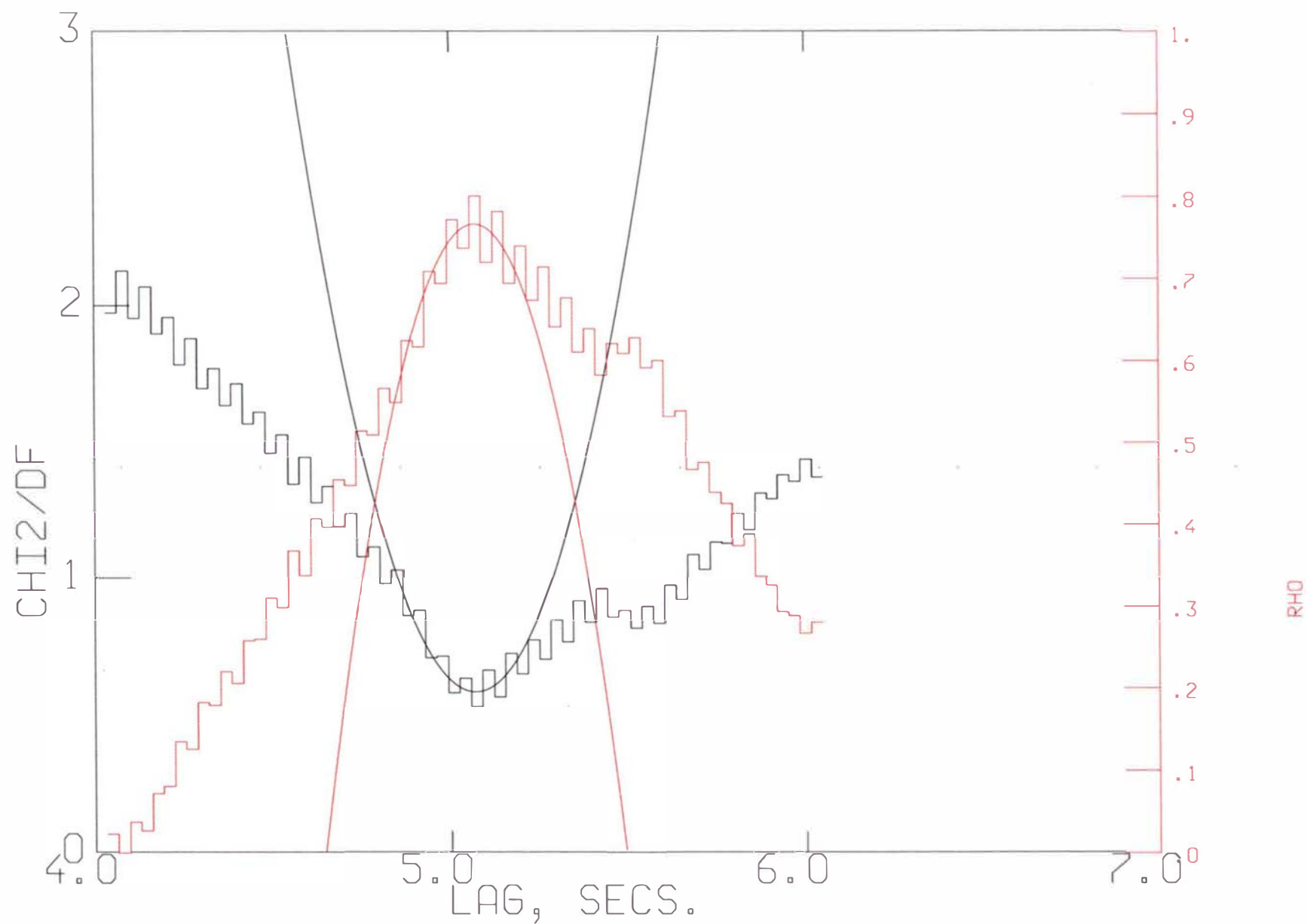
- ☒ ACCESS database updated?

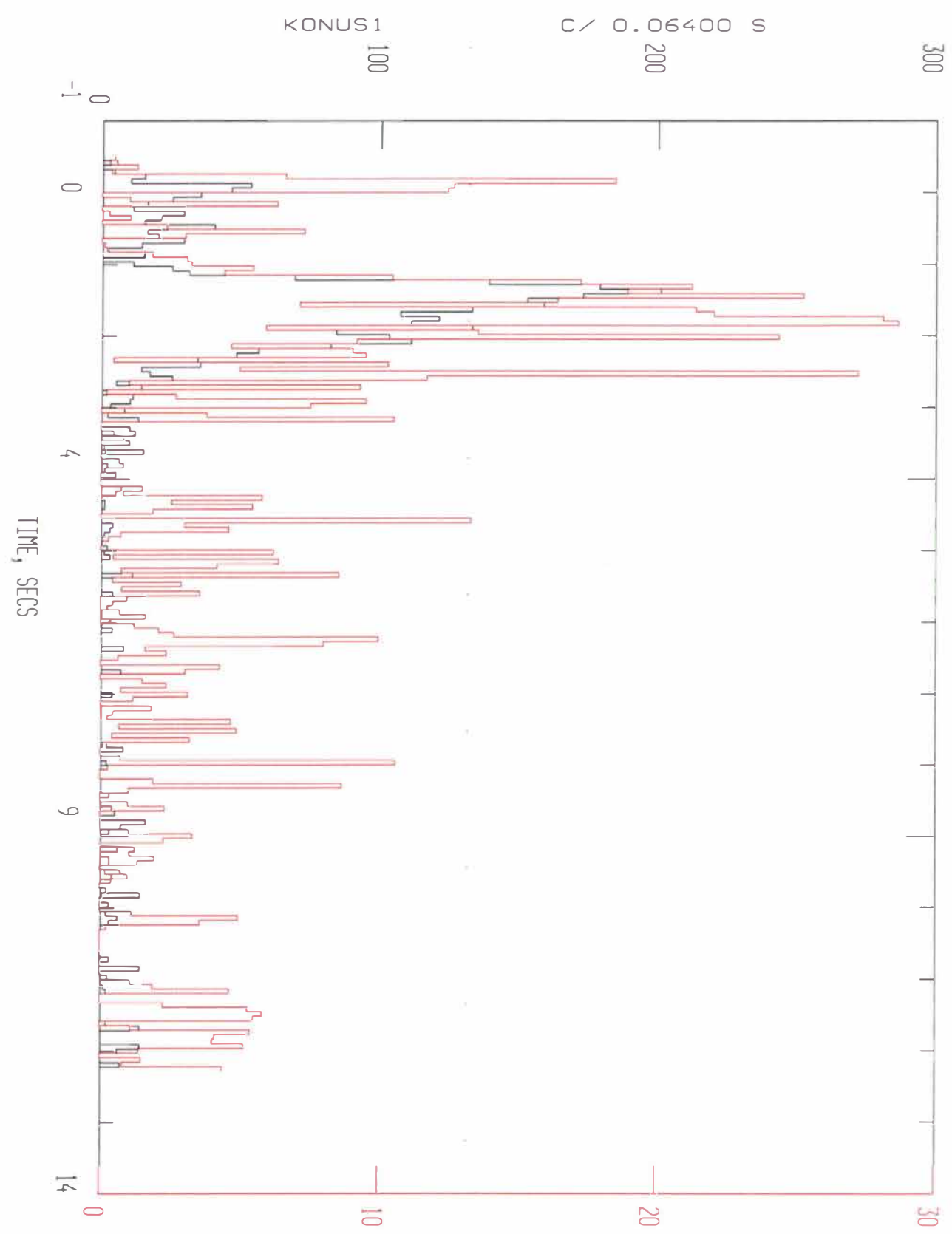
EVENT OF MAY 23, 1995 8:41

11/03/2011

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

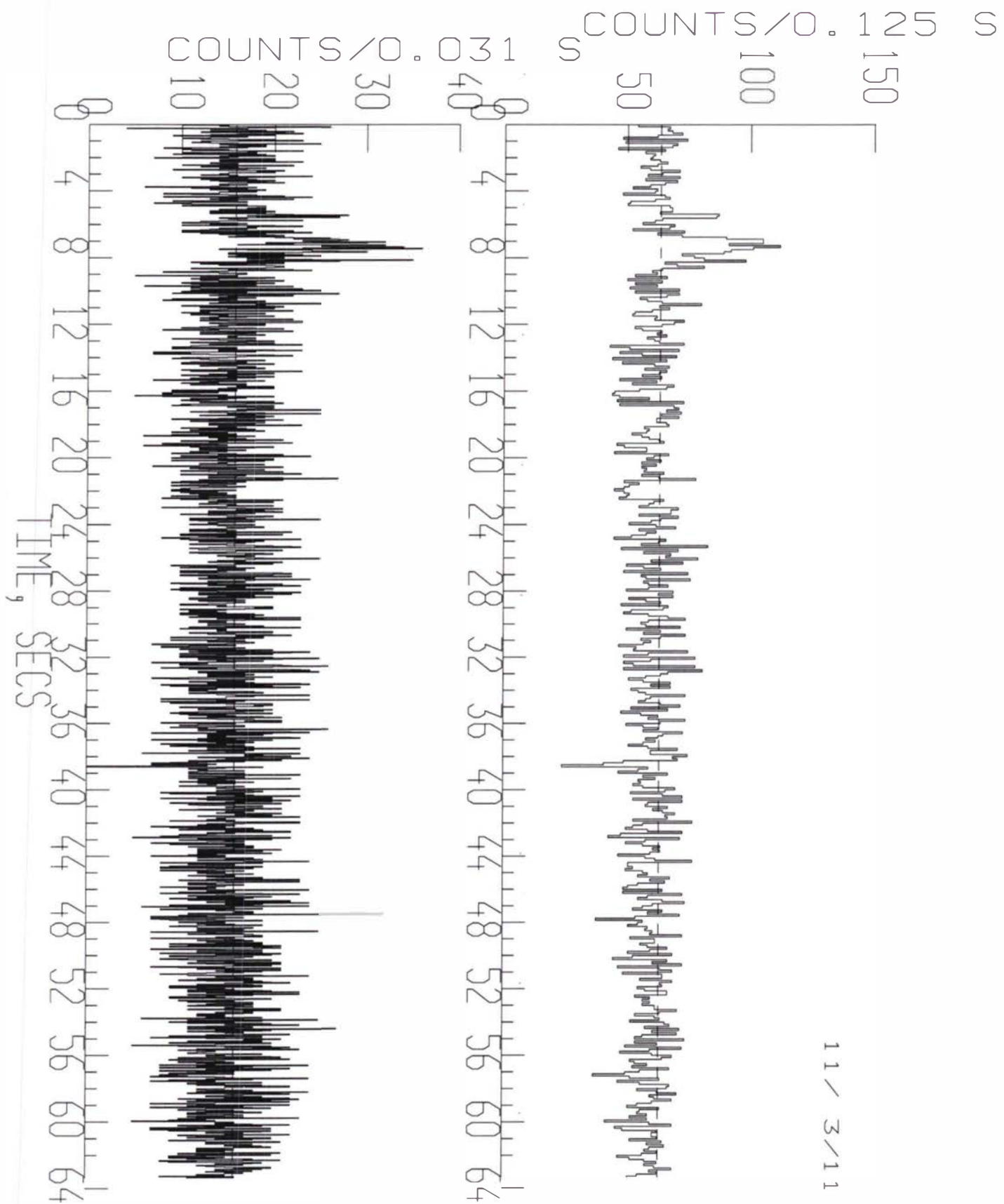






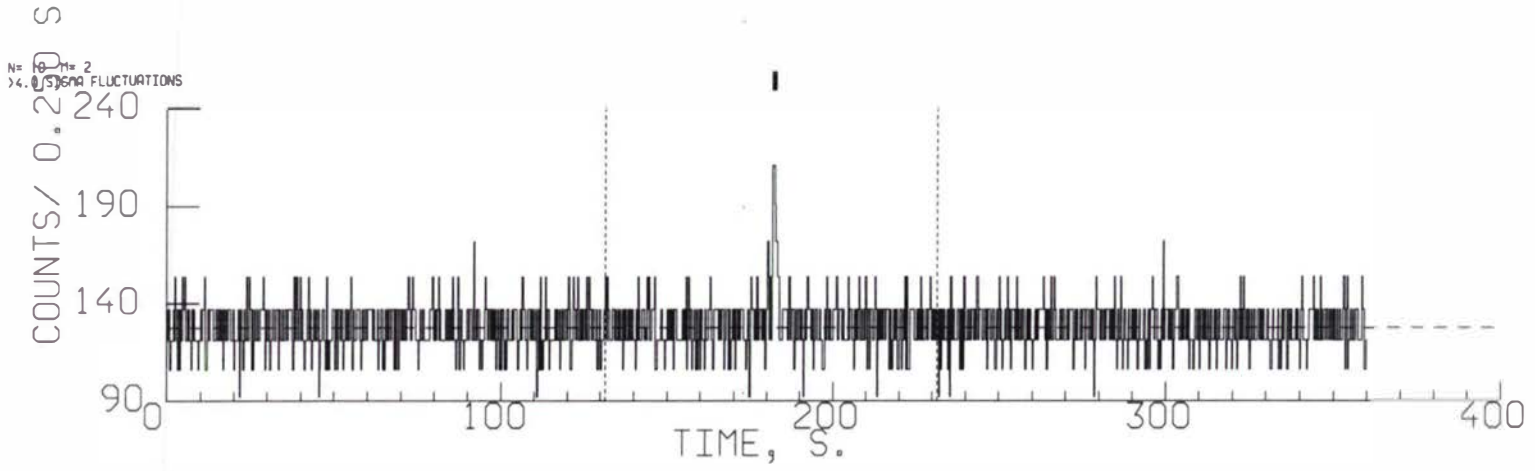
ULYSSES 23/05/95 Ttrig=31430.425

21- 141 keV



ULYSSES RT
23/ 5/95 31248.037 s
21- 141 keV

11 / 3 / 11



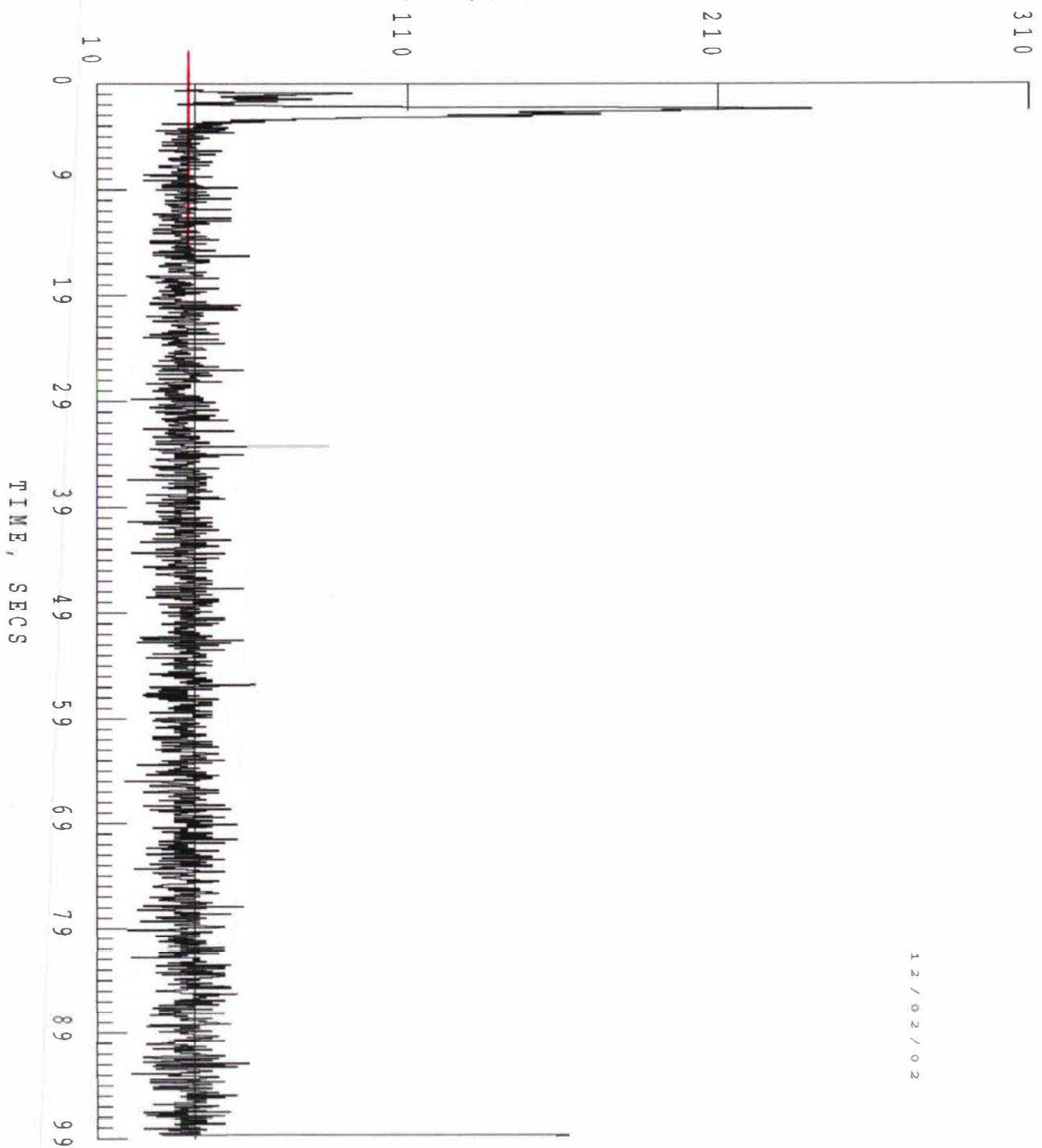
KONUS1

23/05/95

31302.284

50 - 200 keV

COUNTS/0.064 S



12/02/02

KONUS1 19950523 31302

ULYSSES RT

12 / 02 / 02

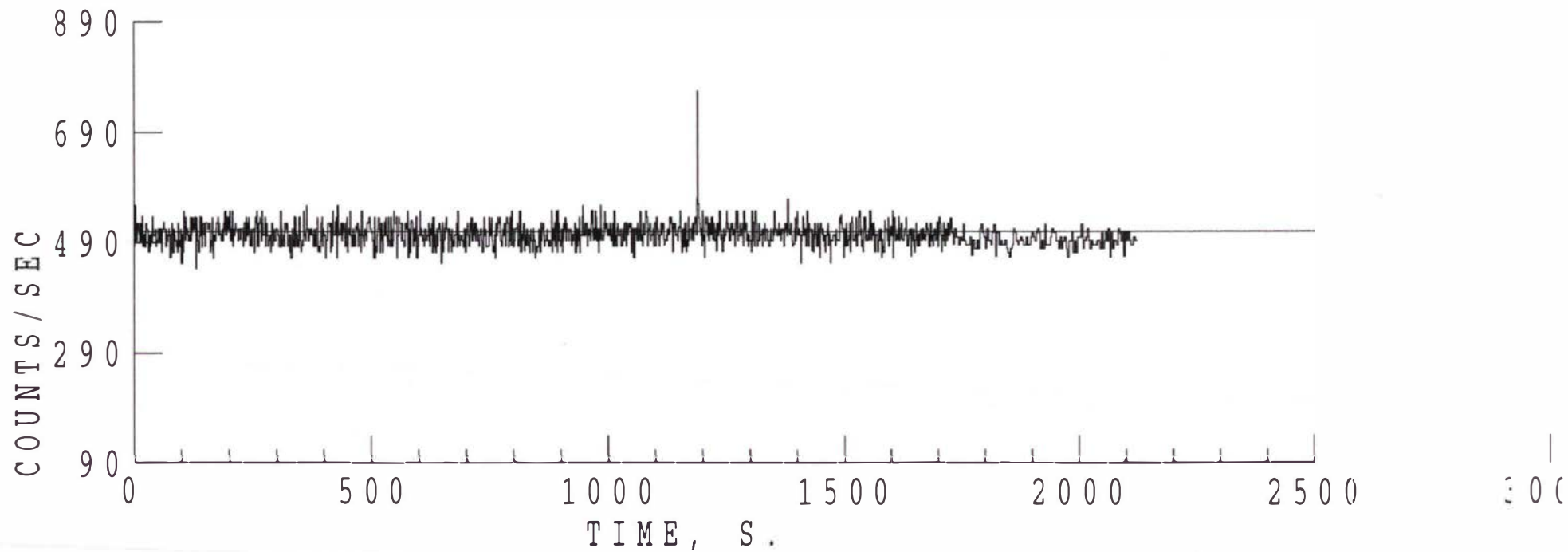
23 / 05 / 95 30240.020 s

INTERVALS REGROUPED BY 6

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

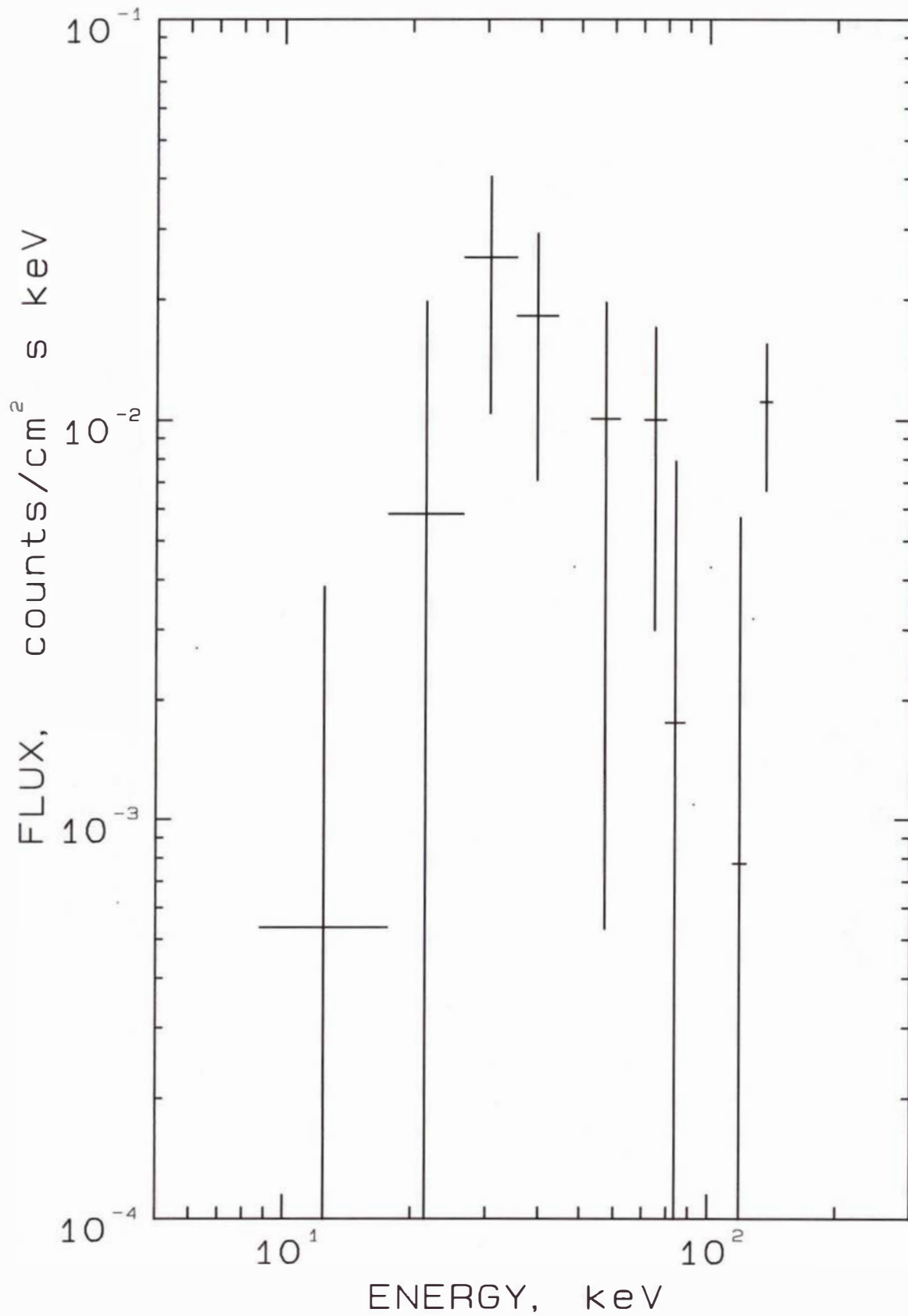
N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



ULYSSES 23/05/95 31430.403

14/11/97

SPECTRUM INTEGRATED OVER 20.7 SECONDS, INTERVALS 2 TO 20



ULYSSES 23/05/95 31430.403 BURST SPECTRAL COUNT RATES

4- 17 keV

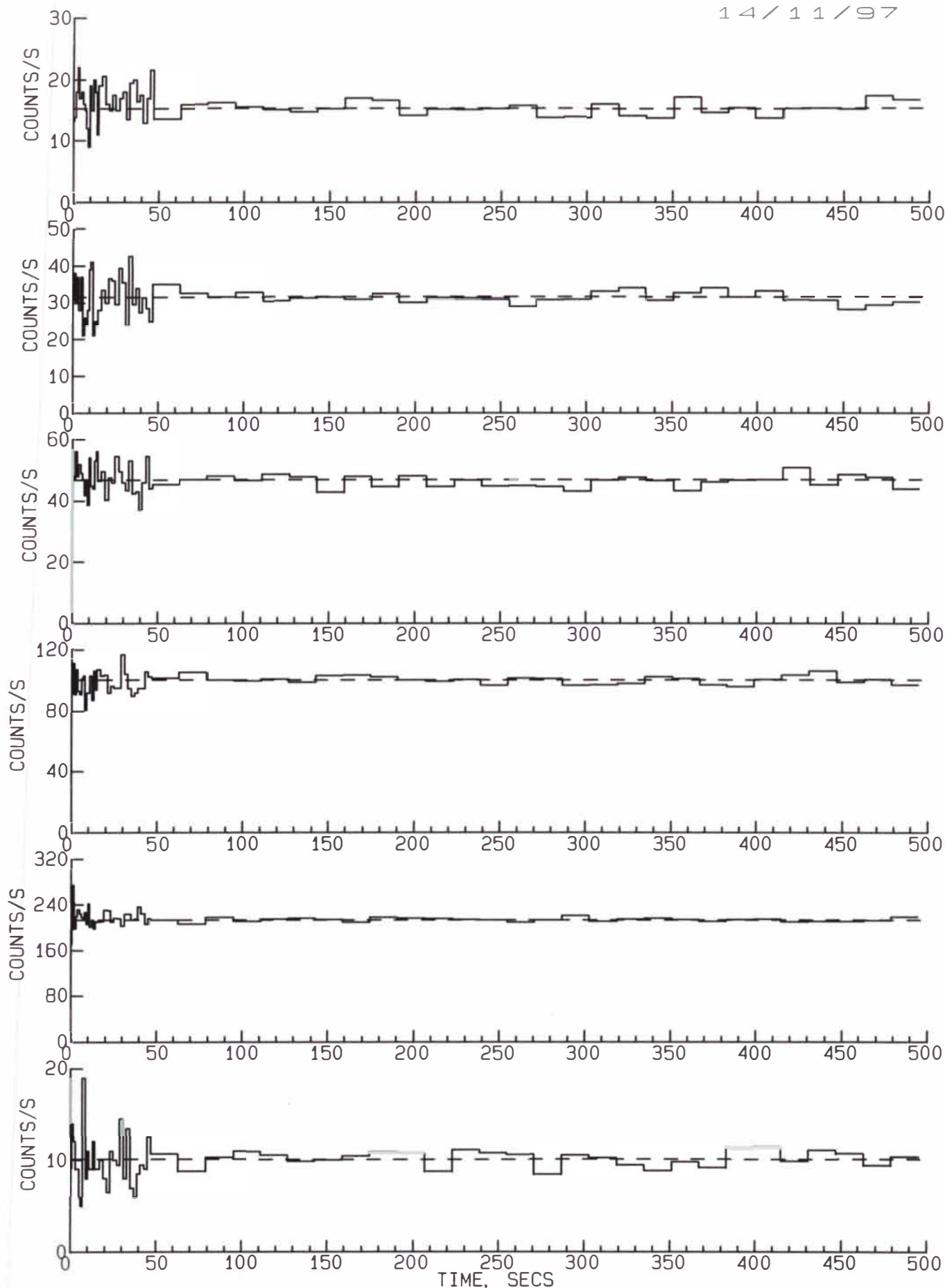
17- 44 keV

44- 70 keV

70- 96 keV

96-123 keV

123-141 keV



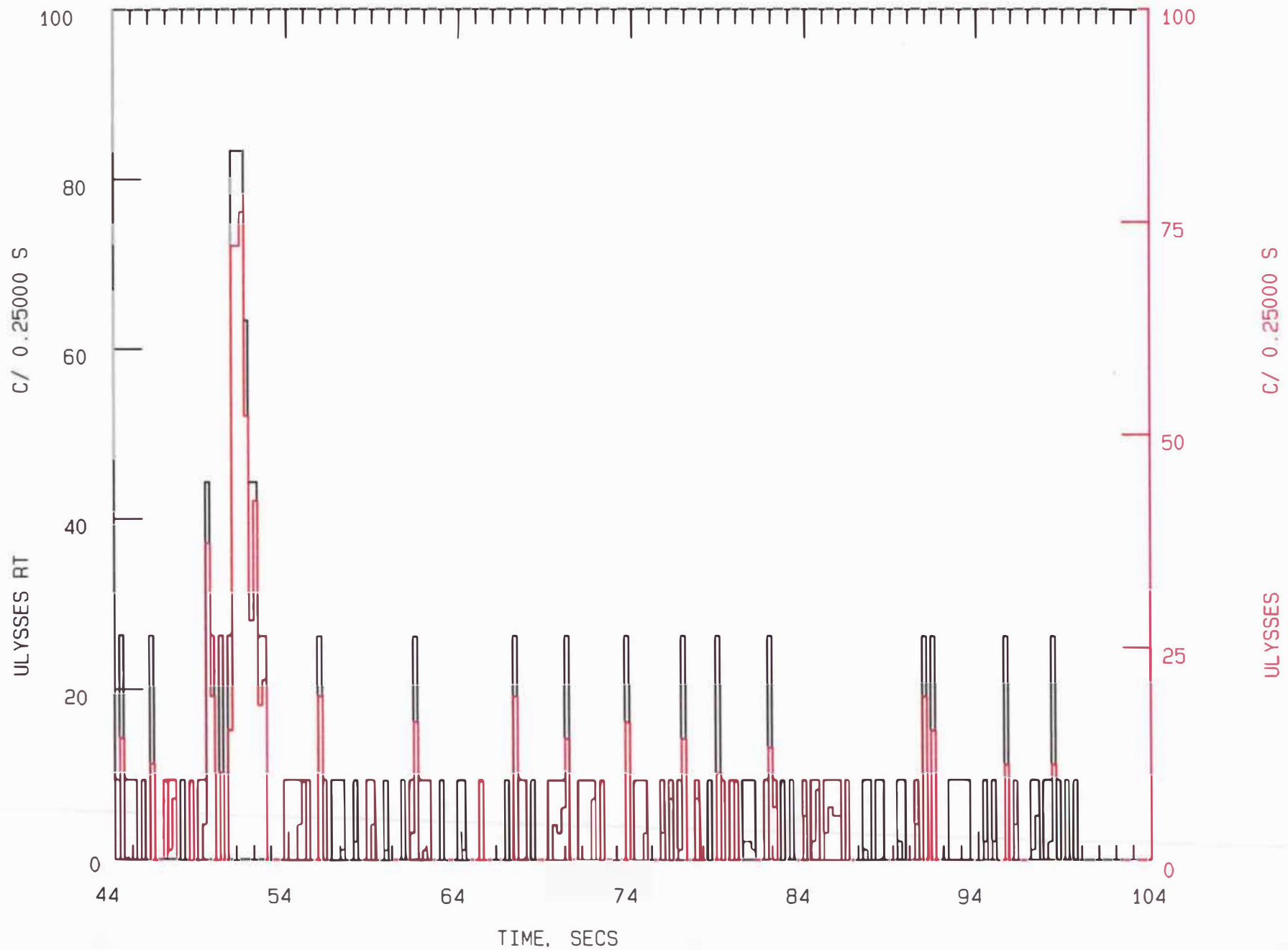
ULYSSES RT-ULYSSES

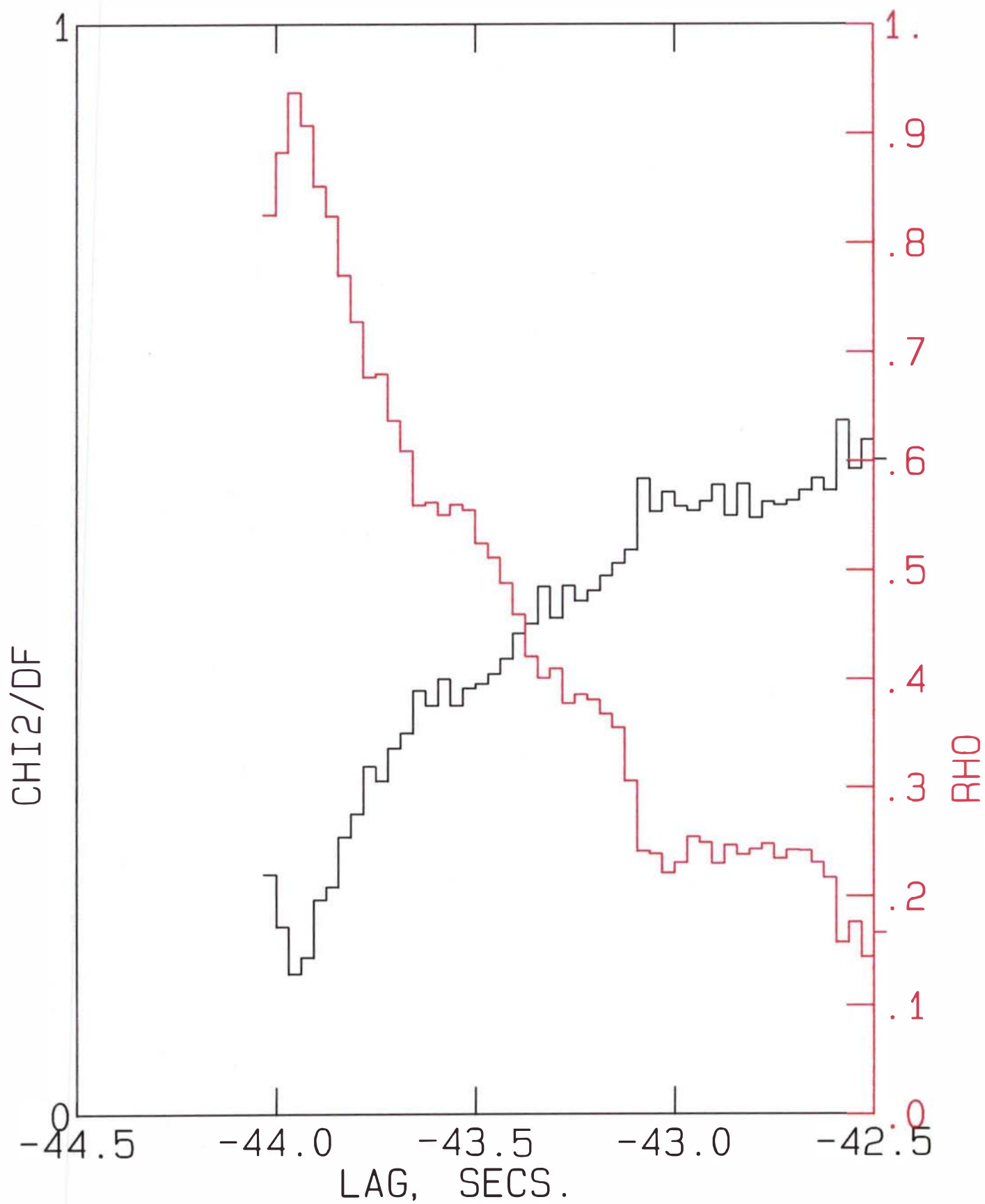
CORRELATION

23/ 5/95

31379.104

14/11/97





ULYSSES

23/05/95

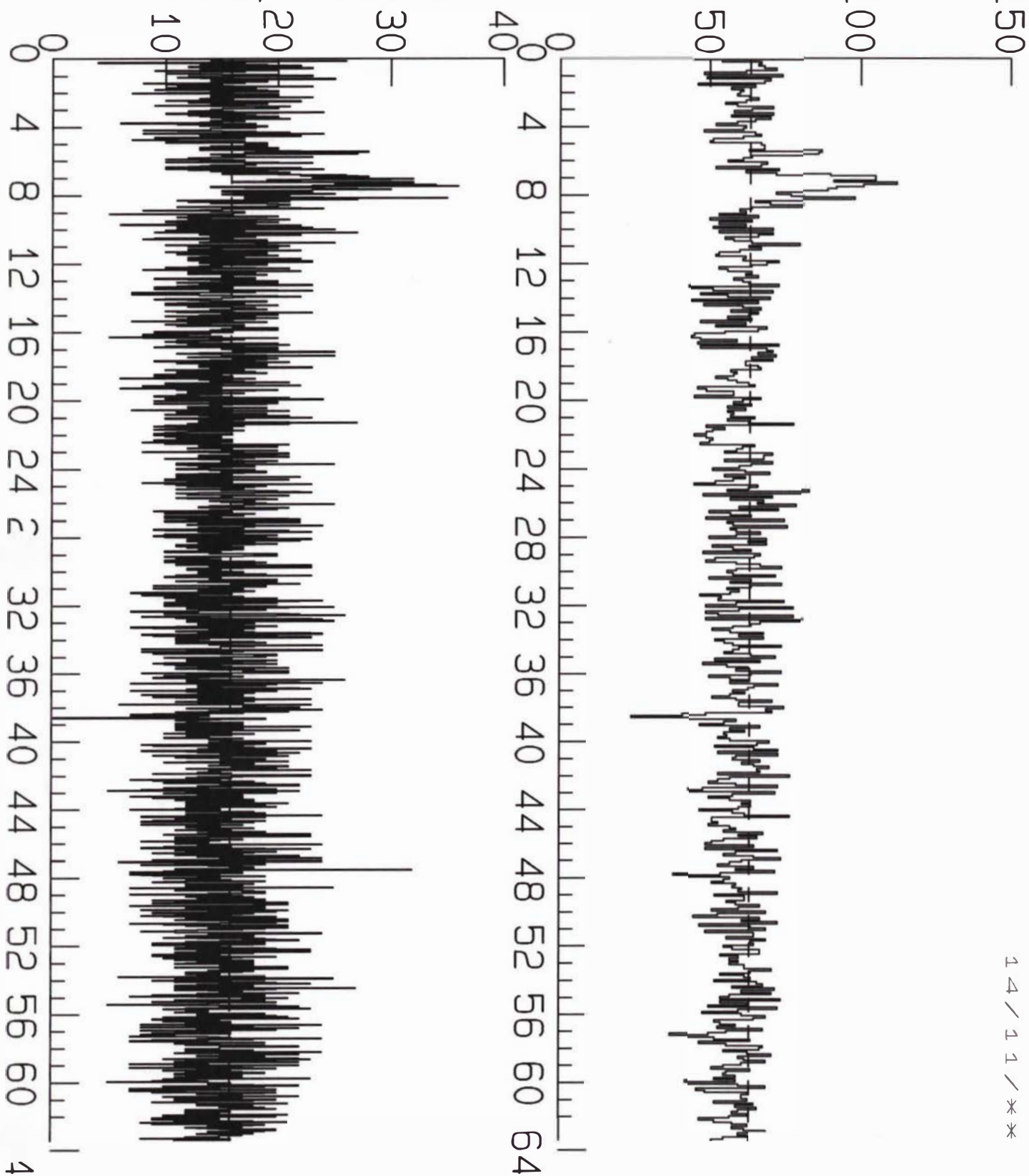
Ttrig=31430.473

21- 141 keV

COUNTS/0.031 S

COUNTS/0.125 S

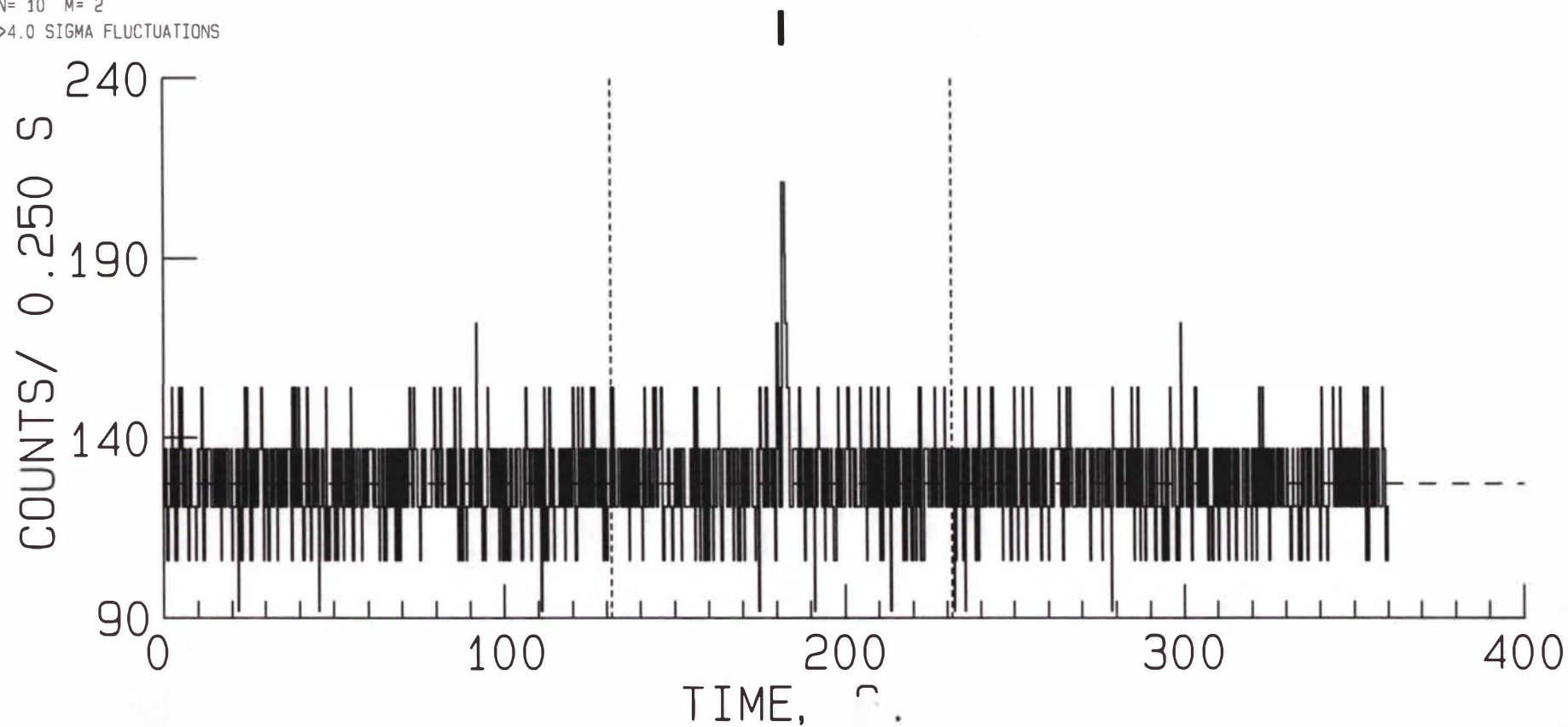
14/11/88



ULYSSES RT
23/ 5/95 31248.038 s
21- 141 keV

14/11/97

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



100
From RICHARDSON@SSLLES.MSFC.NASA.GOV Fri May 26 07:21 PDT 1995
Date: Fri, 26 May 1995 9:21:37 -0500 (CDT)
From: RICHARDSON@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3595

BATSEARCH PROGRAM

BATSE BURST # 3595
EVENT OF 1995 MAY 23 DAY OF YEAR=143
EVENT CROSSING TIME AT BATSE : 66464. S. OR 18:27:44.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 13.000 67.000
BATSE PEAK COUNTING RATE: 3300 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 23/ 5/ 95 IS:
RA= 7.287 DEC= 42.914 DIST= 2.037 AU
BATSE-ULYSSES DISTANCE = 304797966. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION=155.72 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -926.73 SECS.
CROSSING TIME AT ULYSSES IS 65537. S. OR 18:12:17 +/- 108.52 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 23/ 5/ 95 IS:
RA= 151.496 DEC= 13.331 DIST= 1.340 AU
MARS-BATSE DISTANCE = 200436976. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 85.84 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 48.47 SECS.
CROSSING TIME AT MARS IS 66512. S. OR 18:28:32 +/- 116.51 SECONDS

BATSE BURST TRIGGER

NO.: 3595

TIME: TJD=9860 SECONDS=66464

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=77.3 AZIMUTH=350.4 ERROR= DEGREES

COMMENTS:

GRB, WITH STRUCTURE, LASTING APROX. 30SEC. VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3595	950523	9860	66464	3300	013	+67	30

BATSE BURST# 3595

ULYSSES RT

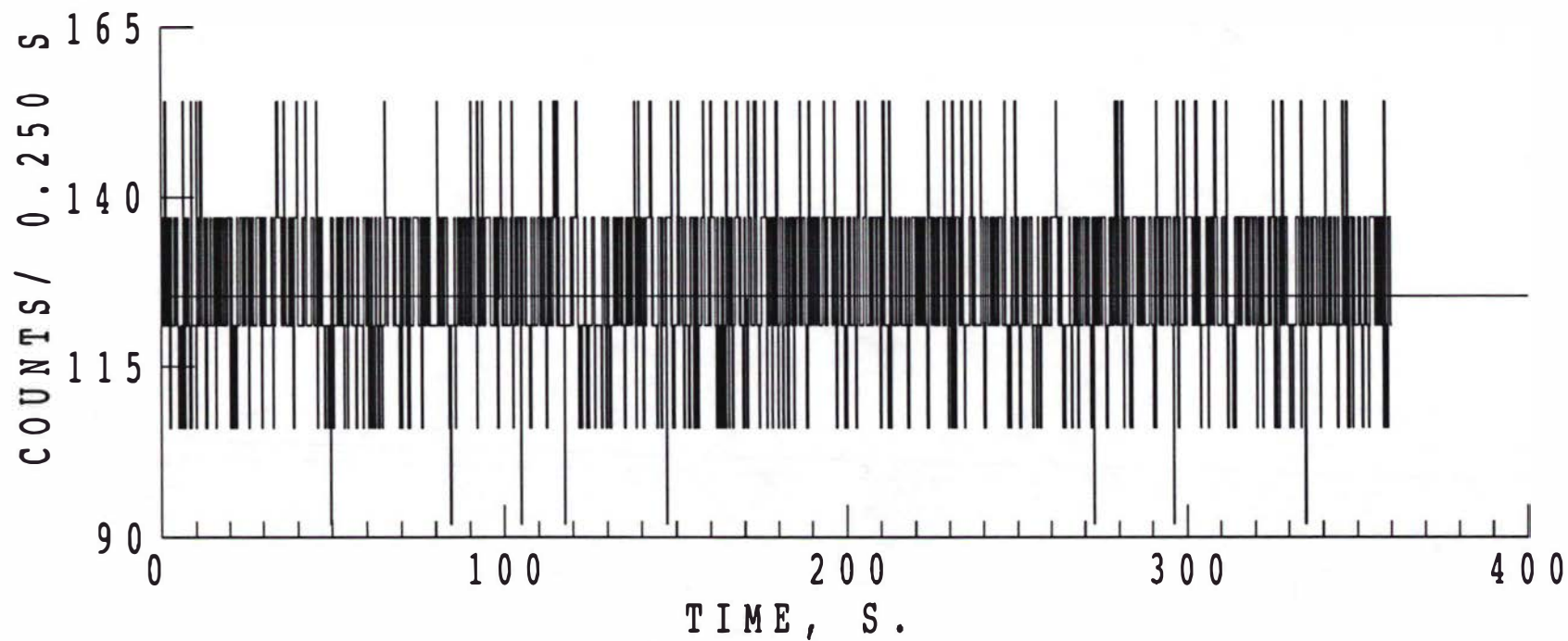
4 / 5 / 98

23 / 5 / 95 65592.188 s

0 - 0 keV

N= 10 M=10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



From RICHARDSON@ssl.msfc.nasa.gov Fri May 26 07:08 PDT 1995
Date: Fri, 26 May 1995 9:08:36 -0500 (CDT)
From: RICHARDSON@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.: 3596

TIME: TJD=9860 SECONDS=75281

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

From RICHARDSON@ssl.msfc.nasa.gov Fri May 26 07:11 PDT 1995
Date: Fri, 26 May 1995 9:11:44 -0500 (CDT)
From: RICHARDSON@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.: 3597

TIME: TJD=9860 SECONDS=83407

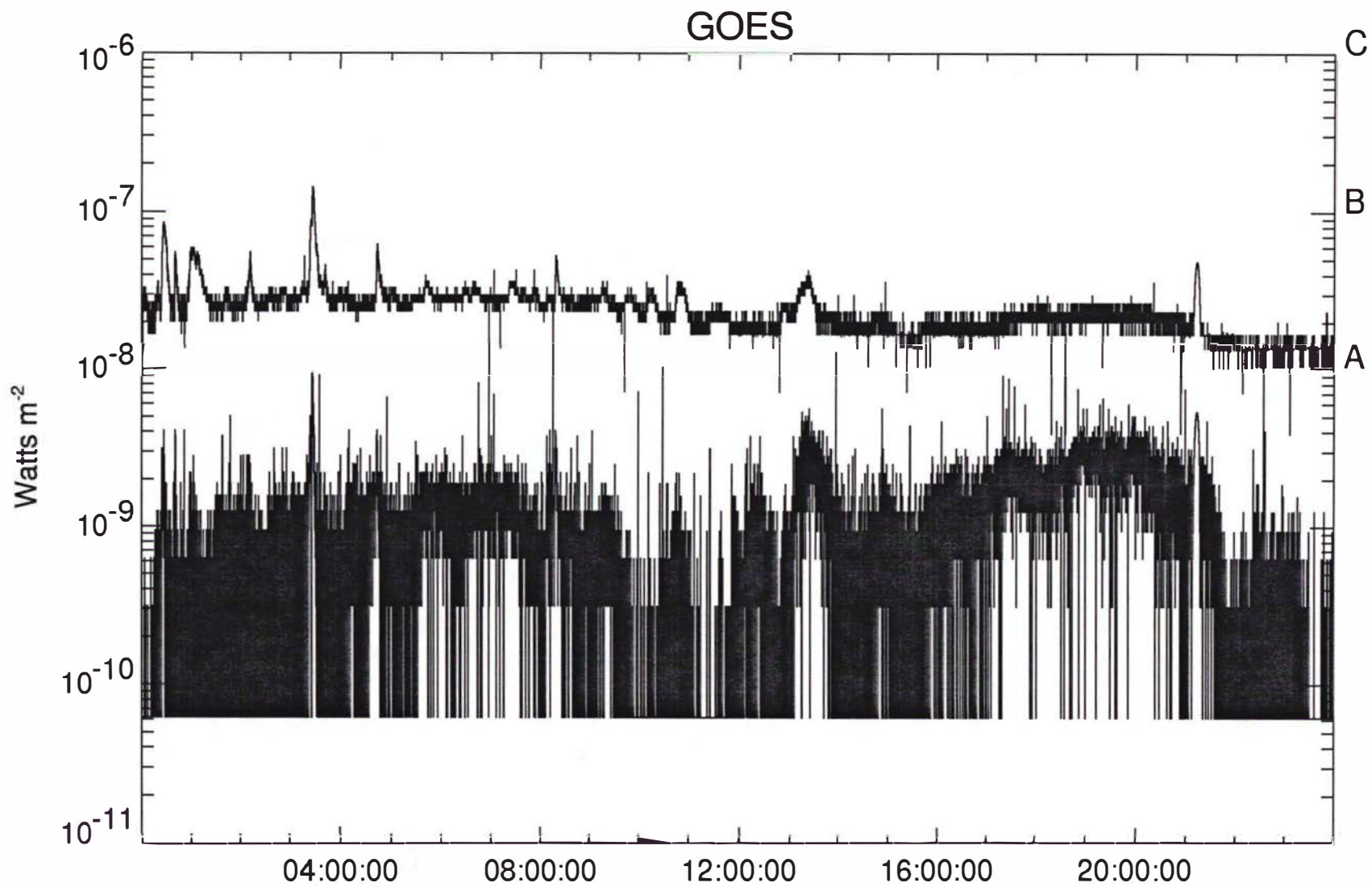
TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT



Data Start: 95/05/23, 0000:02

Plot created: 95/05/25, 0528

Channel

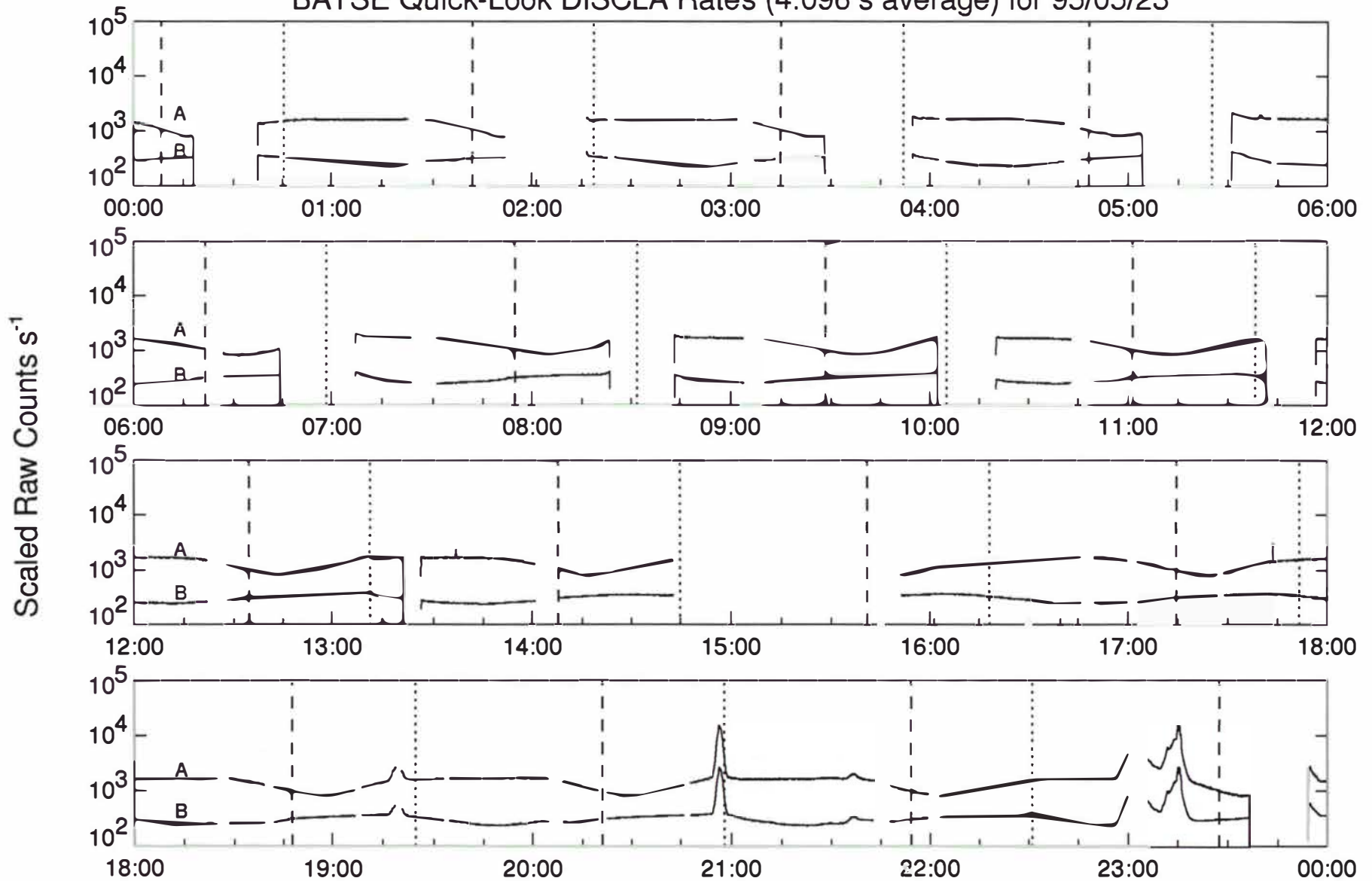
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/23



Current Time: 95/05/25, 0529 EDT

A: Channel 0 Most Sunward LAD

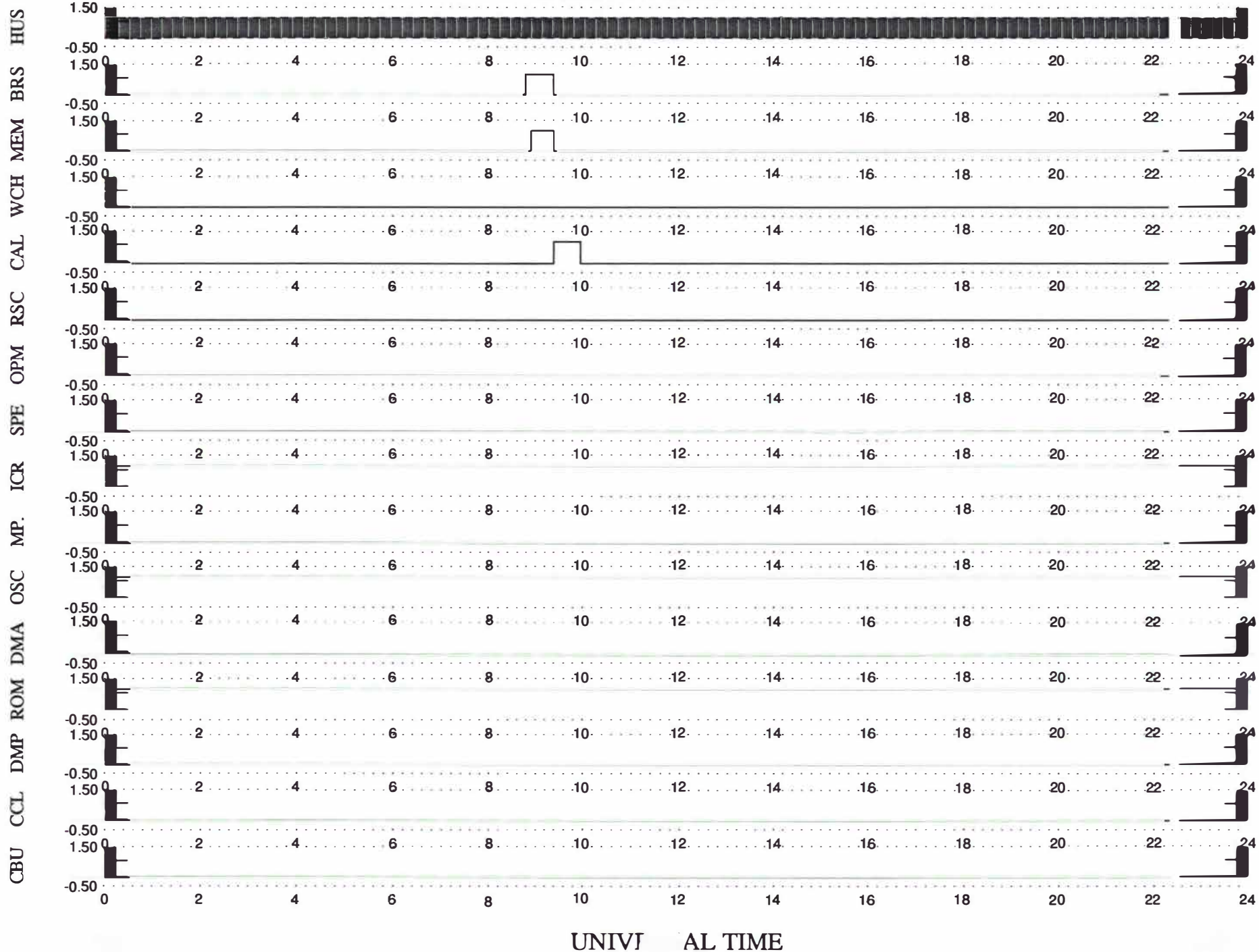
B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
Dashed line: Night entry

* Solar Burst Trigger
+ Solar Flare

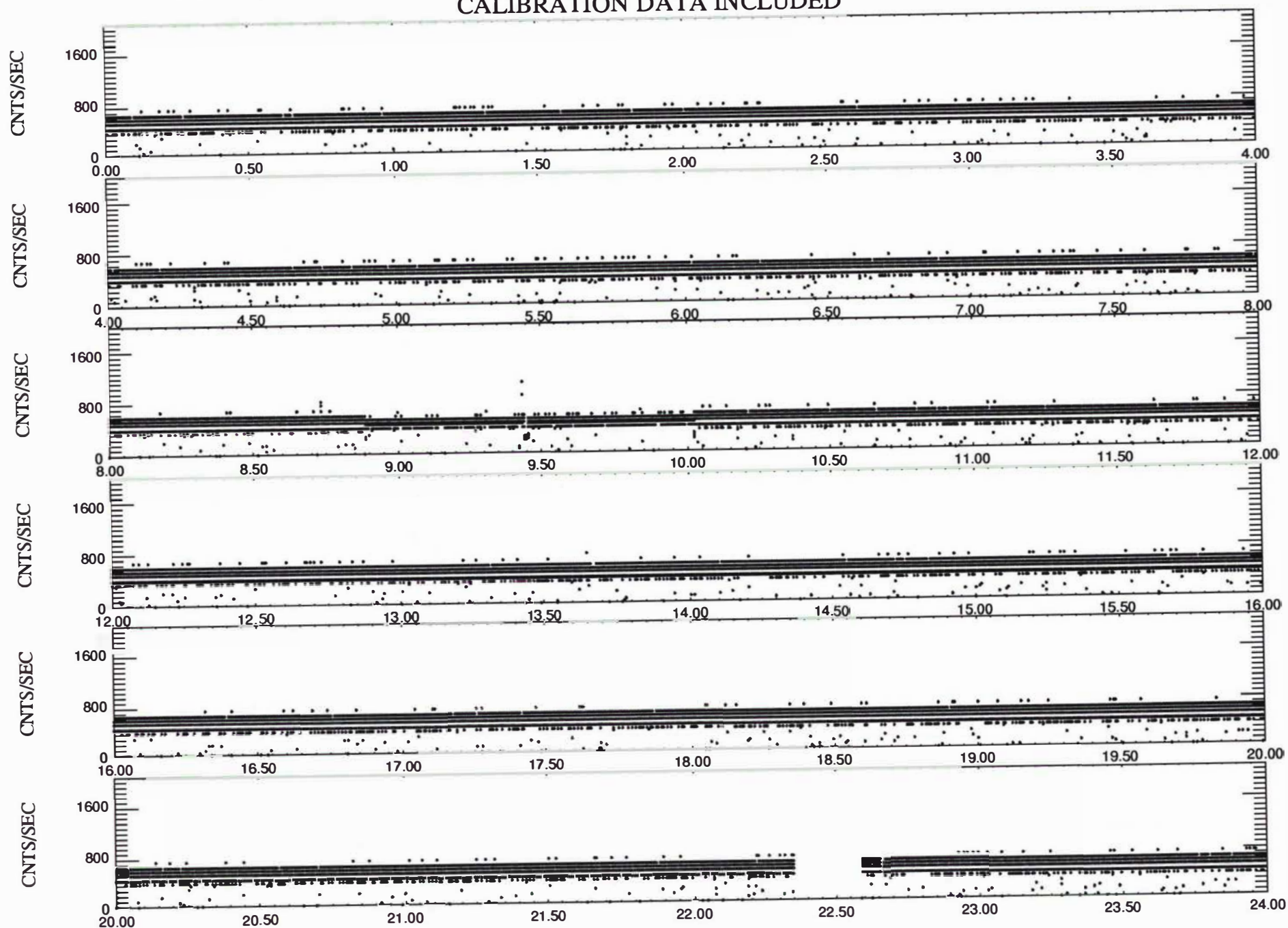
HUS MODES EDR day 143, year 1995 to day 143, year 1995
BURST NUMBER 4

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 143, year 1995 to day 143, year 1995 CALIBRATION DATA INCLUDED

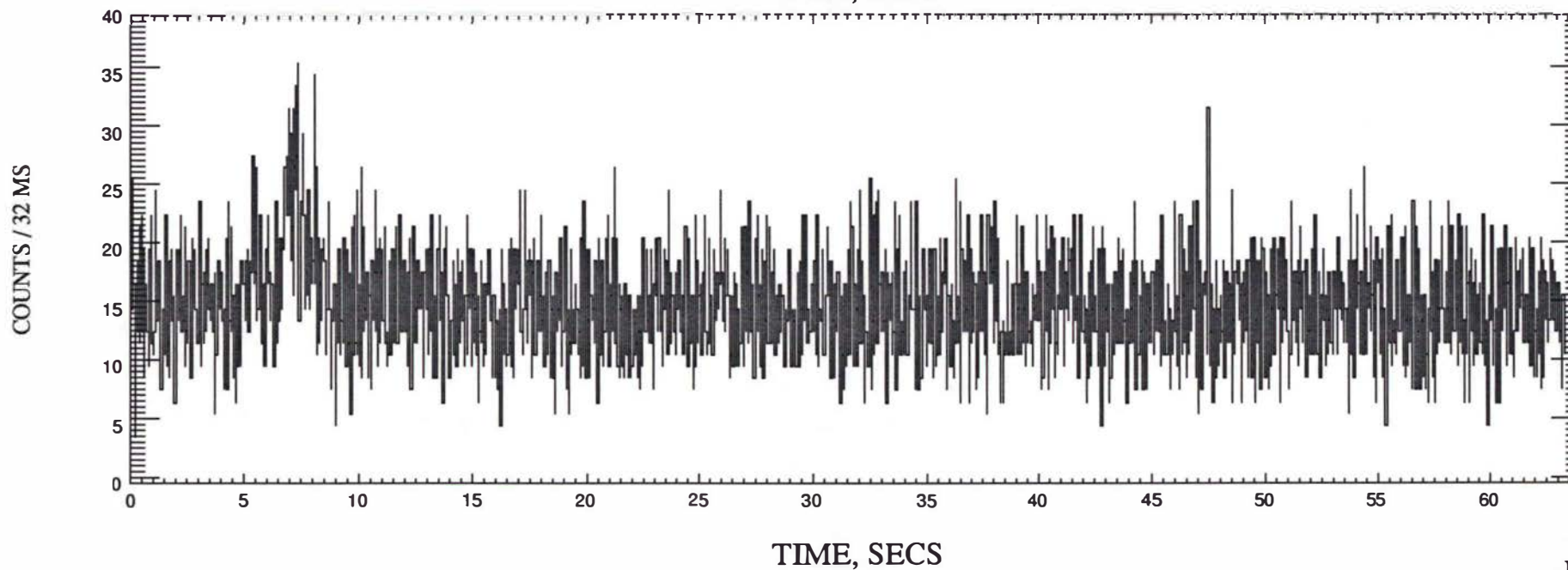
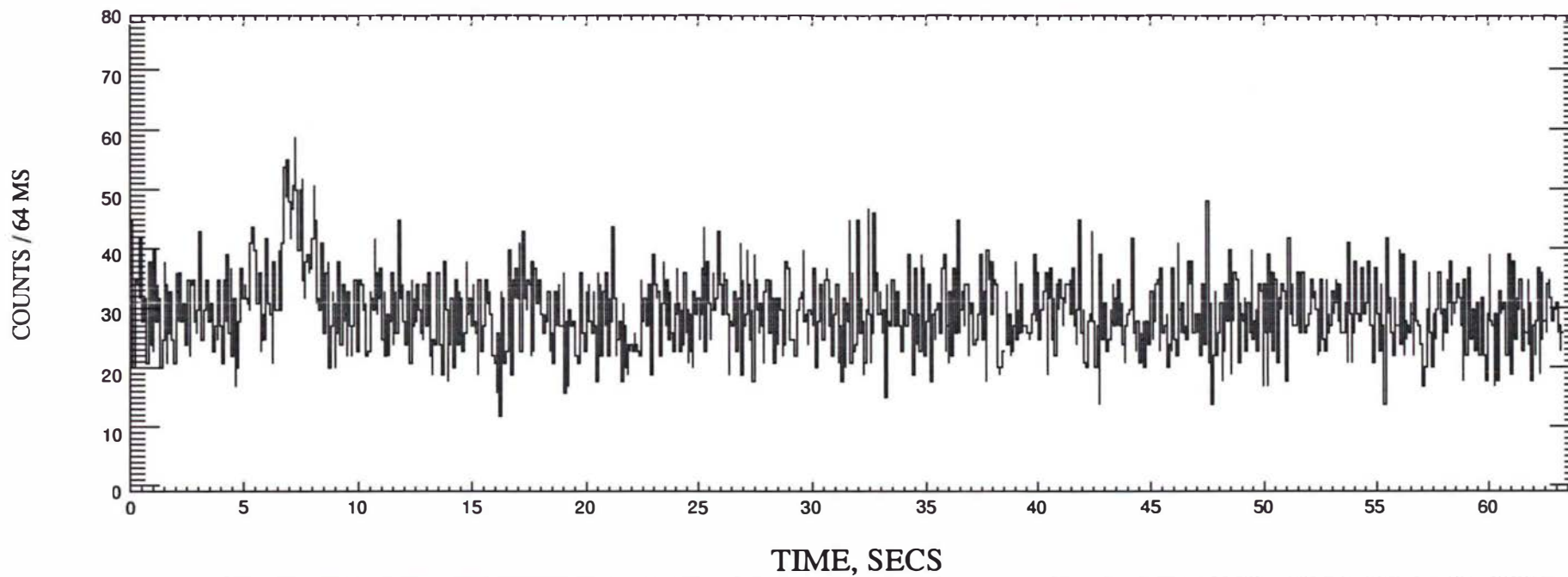
11/21/95

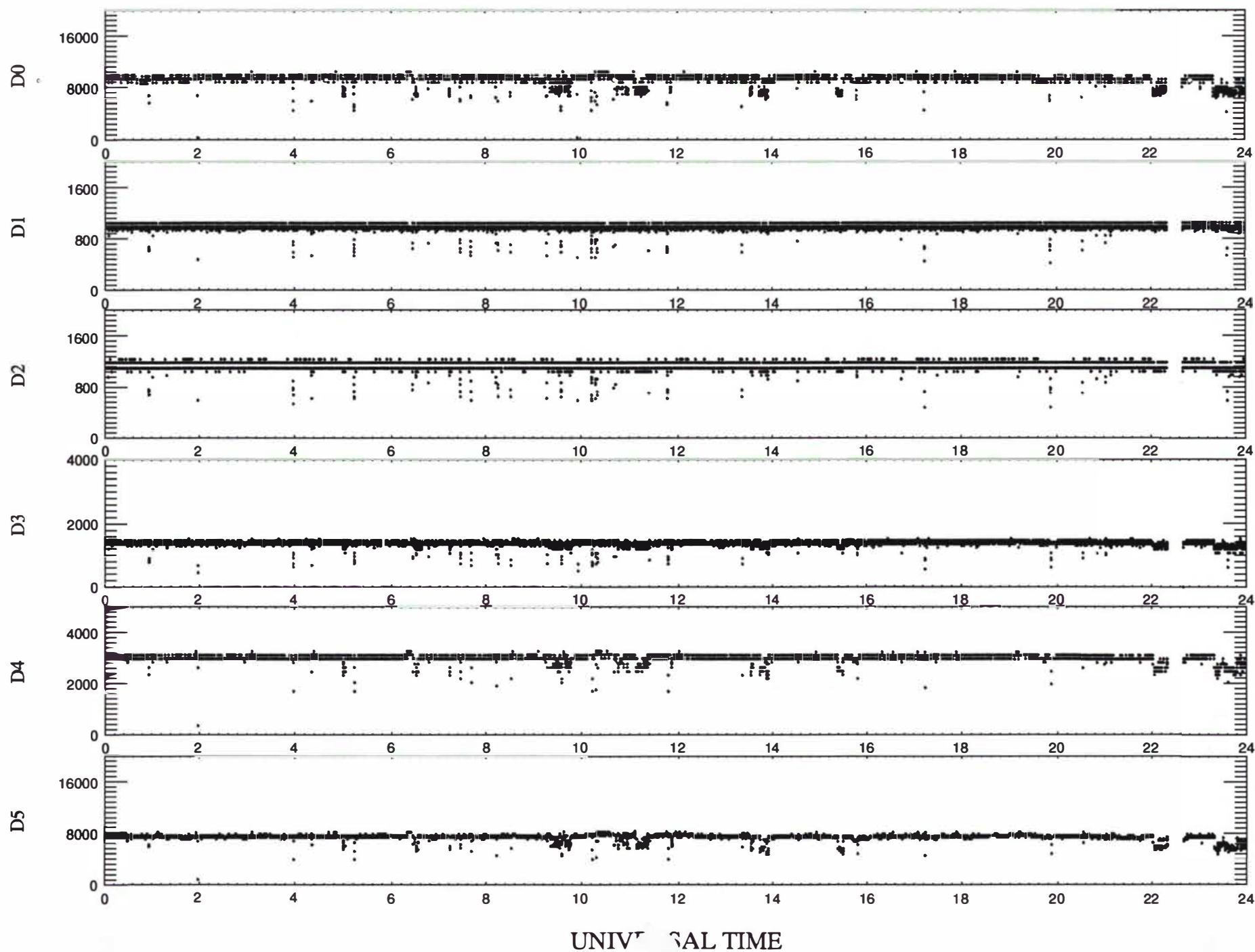


UNIVERSAL TIME

HUS 2A TRIGGERED DATA EDR day 143, year 1995
Burst Counter 4 at UT= 8.730667372810 h=31430.403 s 08:43:50.403

11/21/95





From DEAL@ssl.msfc.nasa.gov Fri May 26 11:06 PDT 1995
Date: Fri, 26 May 1995 13:06:48 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3598

BATSEARCH PROGRAM

BATSE BURST # 3598
EVENT OF 1995 MAY 24 DAY OF YEAR=144
EVENT CROSSING TIME AT BATSE : 14899. S. OR 04:08:19.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 186.000 1.000
BATSE PEAK COUNTING RATE: 13500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 24/ 5/ 95 IS:
RA= 7.445 DEC= 43.232 DIST= 2.036 AU
BATSE-ULYSSES DISTANCE = 304639388. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 44.25 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 727.87 SECS.
CROSSING TIME AT ULYSSES IS 15627. S. OR 04:20:26 +/- 184.16 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 24/ 5/ 95 IS:
RA= 151.913 DEC= 13.154 DIST= 1.348 AU
MARS-BATSE DISTANCE = 201709936. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=144.13 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -545.20 SECS.
CROSSING TIME AT MARS IS 14354. S. OR 03:59:13 +/- 60.17 SECONDS

BATSE BURST TRIGGER

NO.: 3598

TIME: TJD=9861 SECONDS=14899

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=185.7 AZIMUTH=1.1 ERROR= DEGREES

COMMENTS:

BURST LSTING ~ 6S. VISIBLE ABOVE 300 KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3598	950524	9861	14899	13500	186	+01	6

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

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

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

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

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

26 / 5 / 95

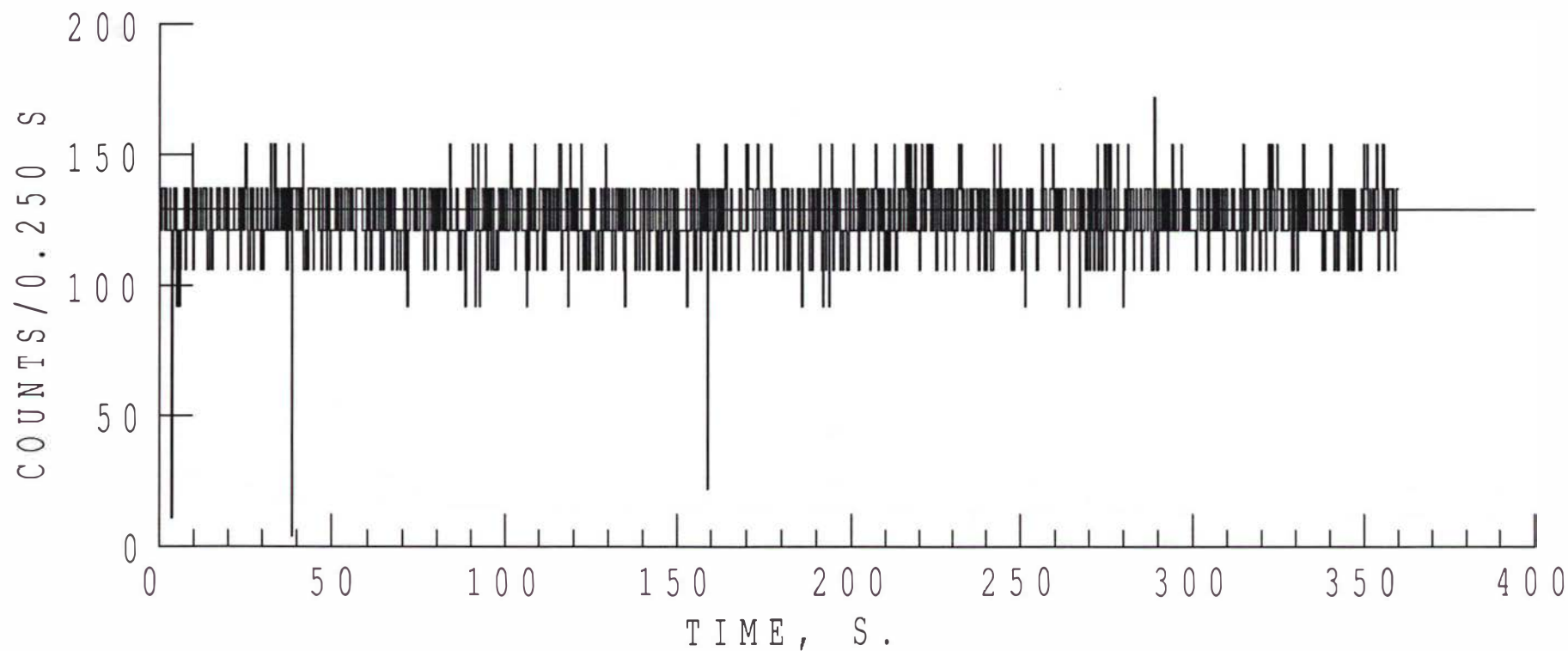
ULYSSES RT

24 / 5 / 95 15444.113 s

0 - 0 keV

N= 10 N= 2

>4.0 SIGMA FLUCTUATIONS



25 / 5 / 95

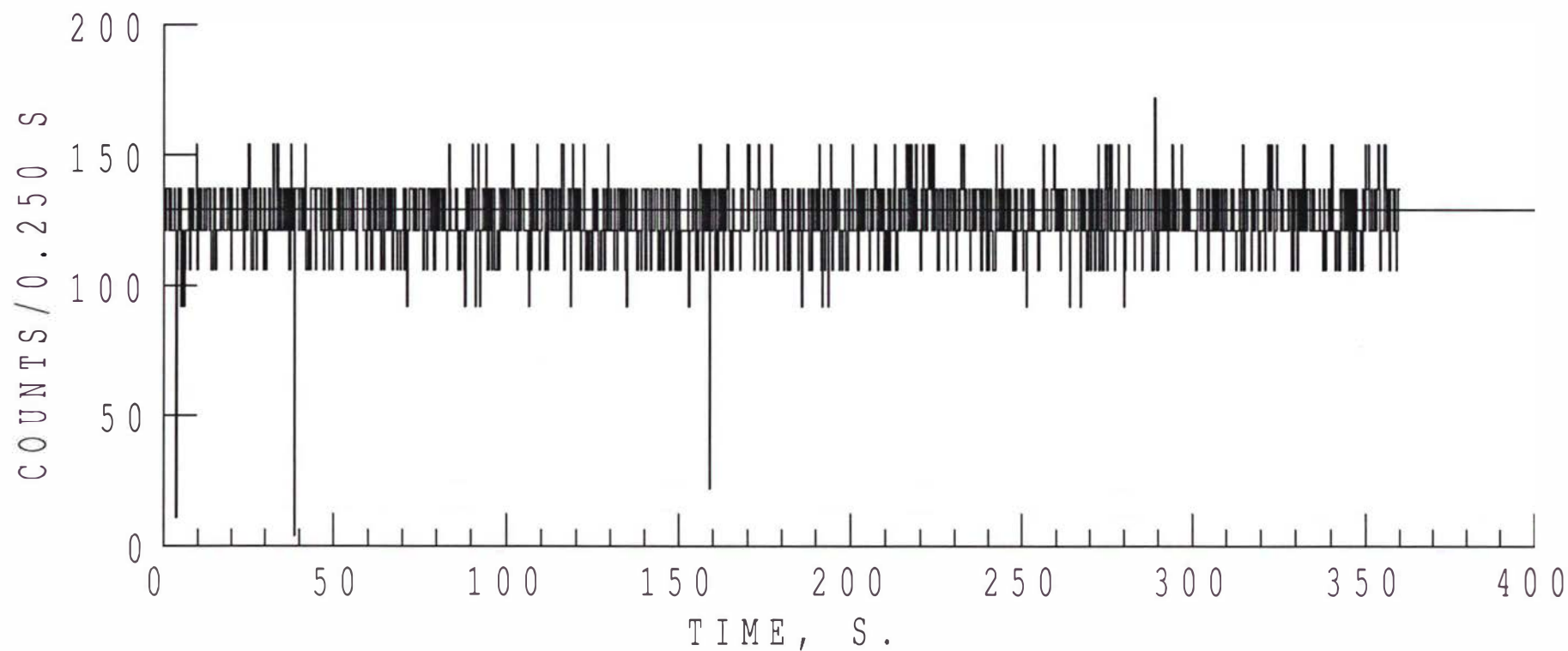
ULYSSES RT

24 / 5 / 95 15444.113 s

0 - 0 keV

N= 10 M= 2

>4.0 SIGMA FLUCTUATIONS



From DEAL@ssl.msfc.nasa.gov Thu May 25 10:55 PDT 1995
Date: Thu, 25 May 1995 12:55:22 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03599

TIME: TJD=9861 SECONDS=17604

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

ELECTRON EVENT

From DEAL@ssl.msfc.nasa.gov Thu May 25 10:57 PDT 1995
Date: Thu, 25 May 1995 12:57:21 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3600

TIME: TJD=9861 SECONDS=27231

TYPE: SAA ENT SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

SAA ENTRY

From DEAL@ssl.msfc.nasa.gov Thu May 25 10:59 PDT 1995
Date: Thu, 25 May 1995 12:59:08 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
"LHEAVX::CLINE"@SSLLES.MSFC.NASA.GOV,
"LHEAVX::BARTHELMY"@SSLLES.MSFC.NASA.GOV, scott@xtelab.gsfc.nasa.gov,
"15733::SCHAEFER"@SSLLES.MSFC.NASA.GOV
X-Vmsmail-To: @mops\$send_msg:BURST_SPAN.DIS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3601

TIME: TJD=9861 SECONDS=38882

TYPE: SAA ENT SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

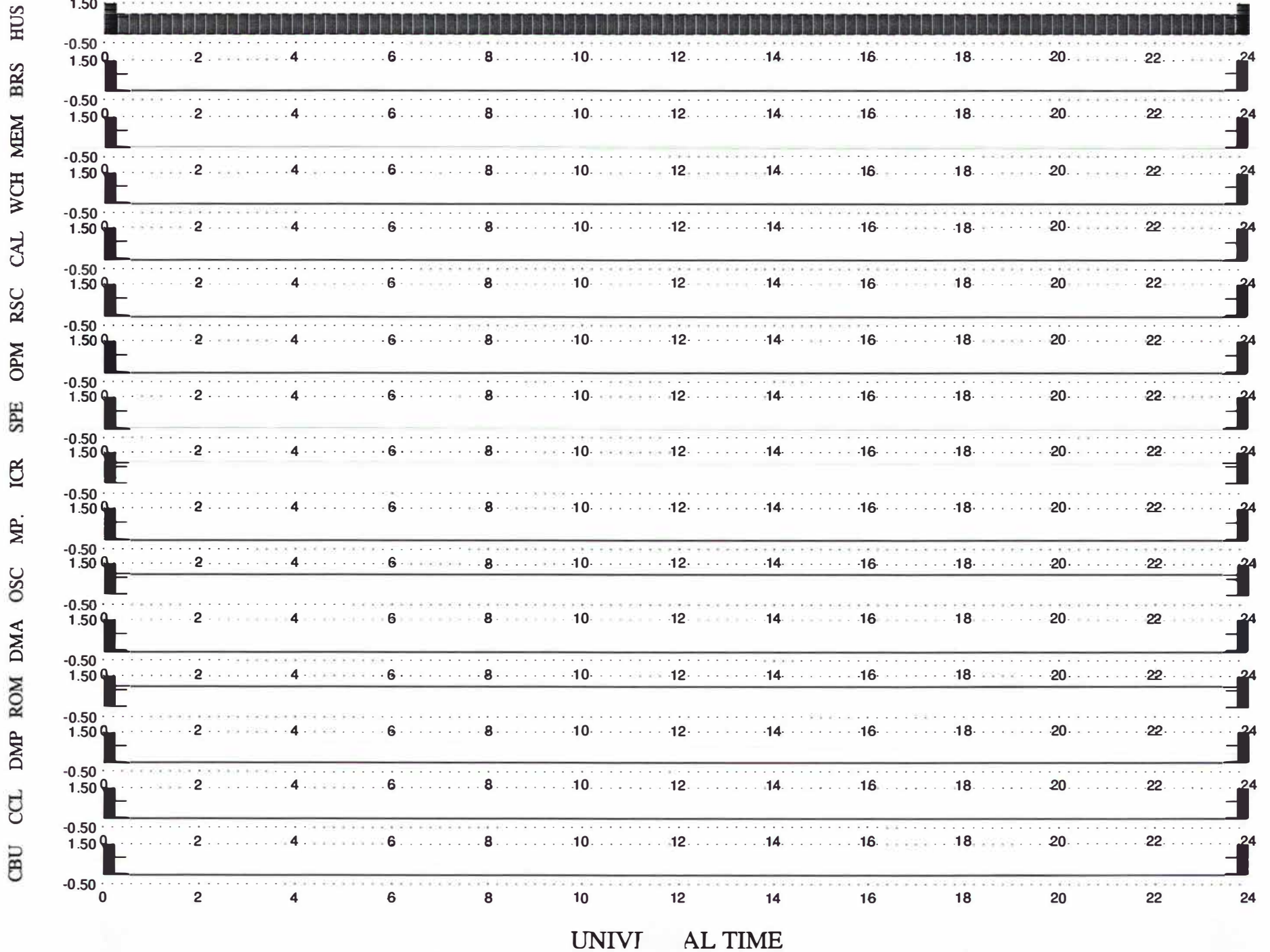
LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:

SAA ENTRY

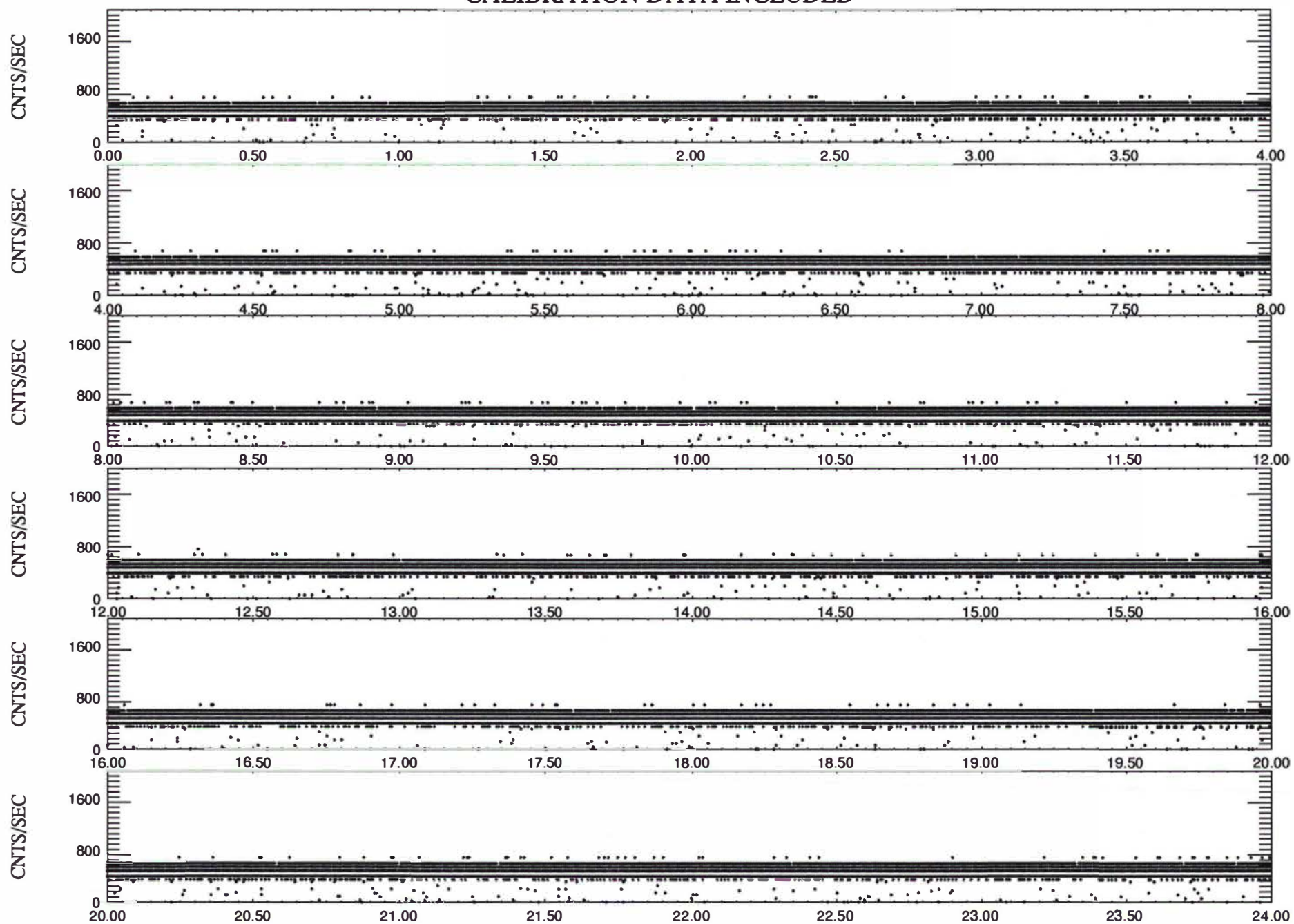
HUS MODES EDR day 144, year 1995 to day 144, year 1995
NO BURST (4)

11/21/95

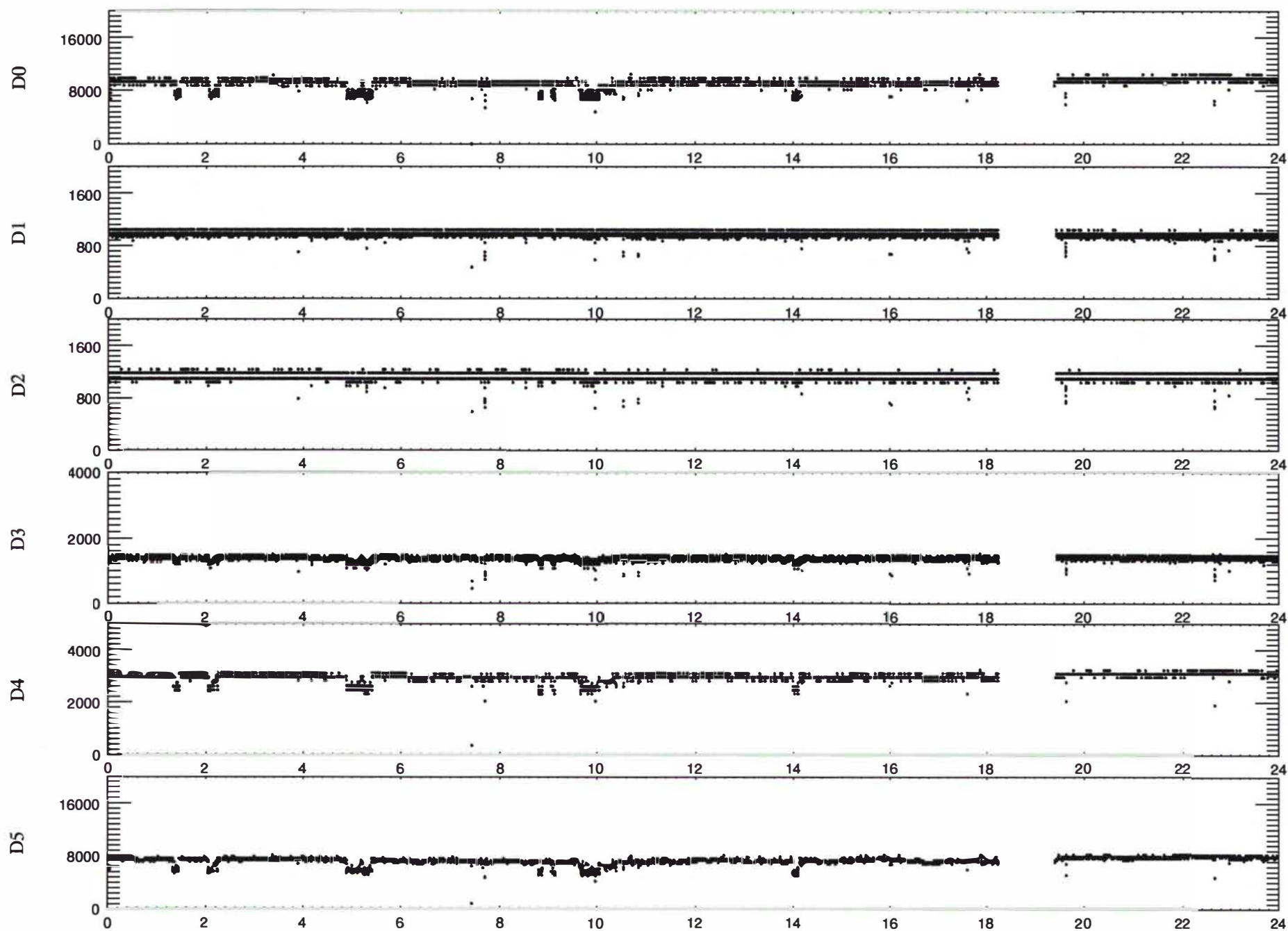


HUS 2A, MODE 1, NOT AVERAGED EDR day 144, year 1995 to day 144, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIV. TIME



UNIVERSAL TIME

From HAGEDON@fender.msfc.nasa.gov Fri May 26 08:41 PDT 1995
Date: Fri, 26 May 1995 10:40:49 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3602

TIME: TJD=9862 SECONDS=24948

TYPE: SAA SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

From HAGEDON@fender.msfc.nasa.gov Fri May 26 08:42 PDT 1995
Date: Fri, 26 May 1995 10:42:52 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3603

TIME: TJD=9862 SECONDS=36750

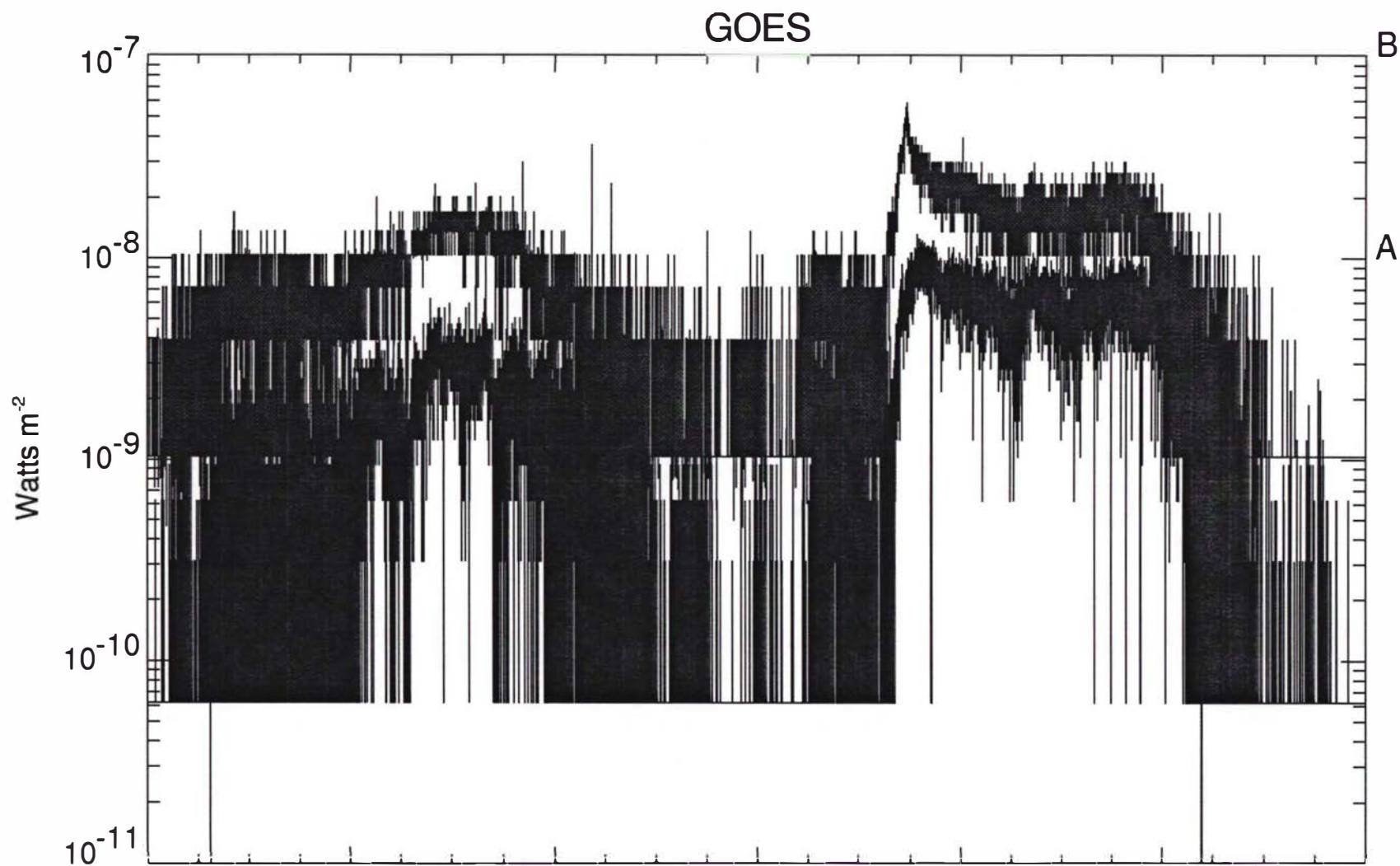
TYPE: SAA SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.



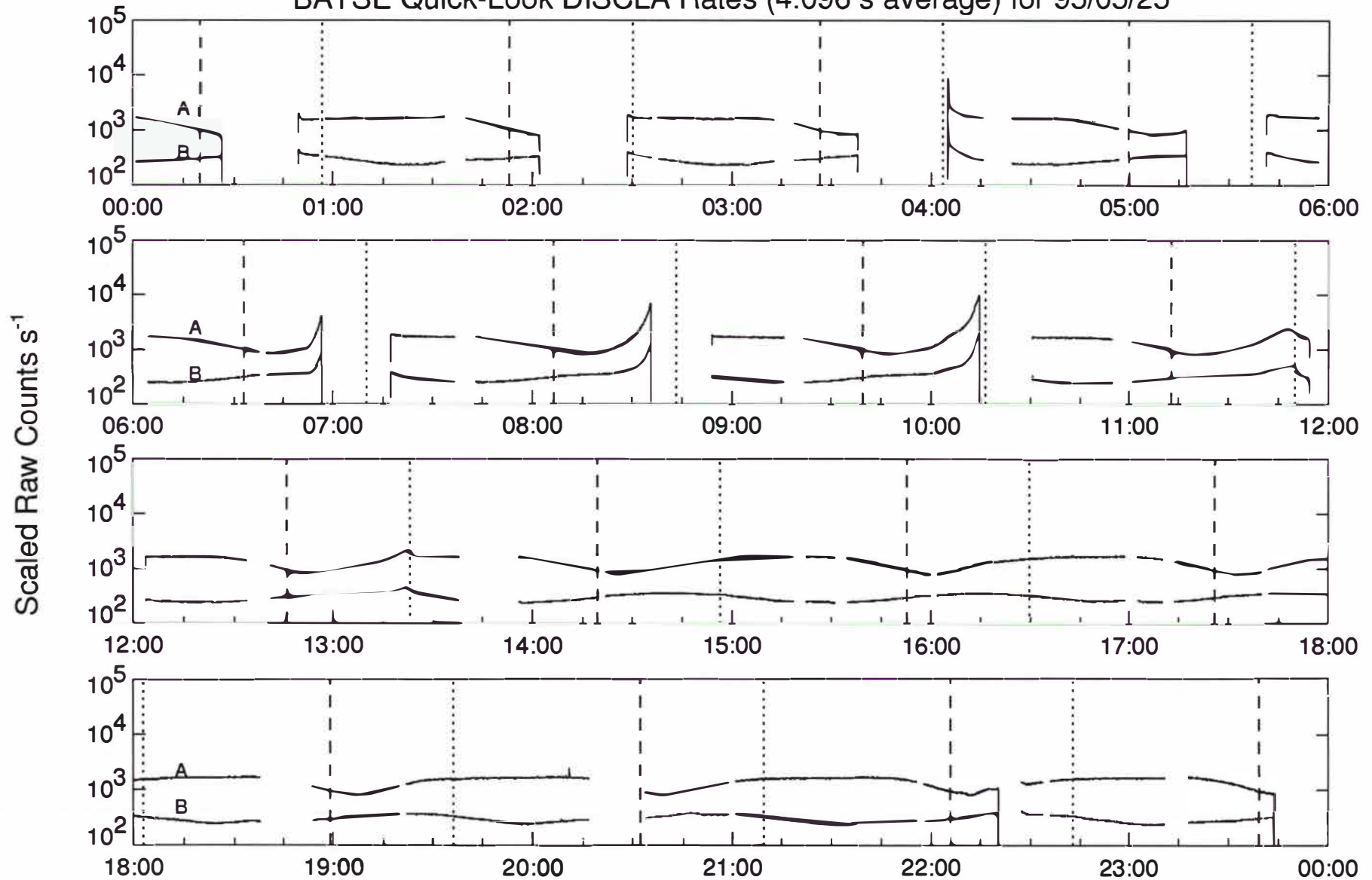
Data Start: 95/05/25, 0000:00

Plot created: 95/05/27, 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 95/05/25



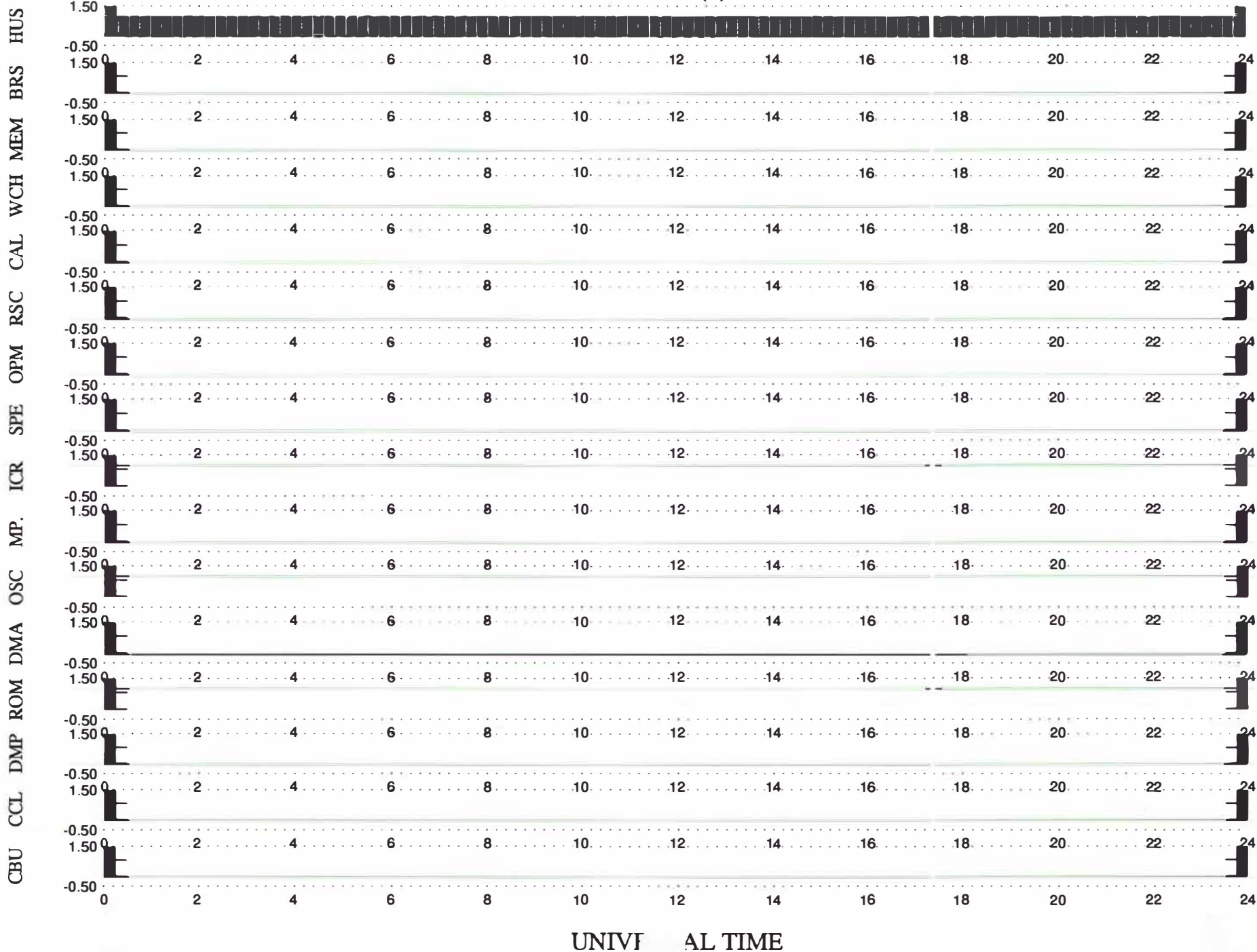
Current Time: 95/05/27, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

HUS MODES EDR day 145, year 1995 to day 145, year 1995
NO BURST (4)

11/21/95

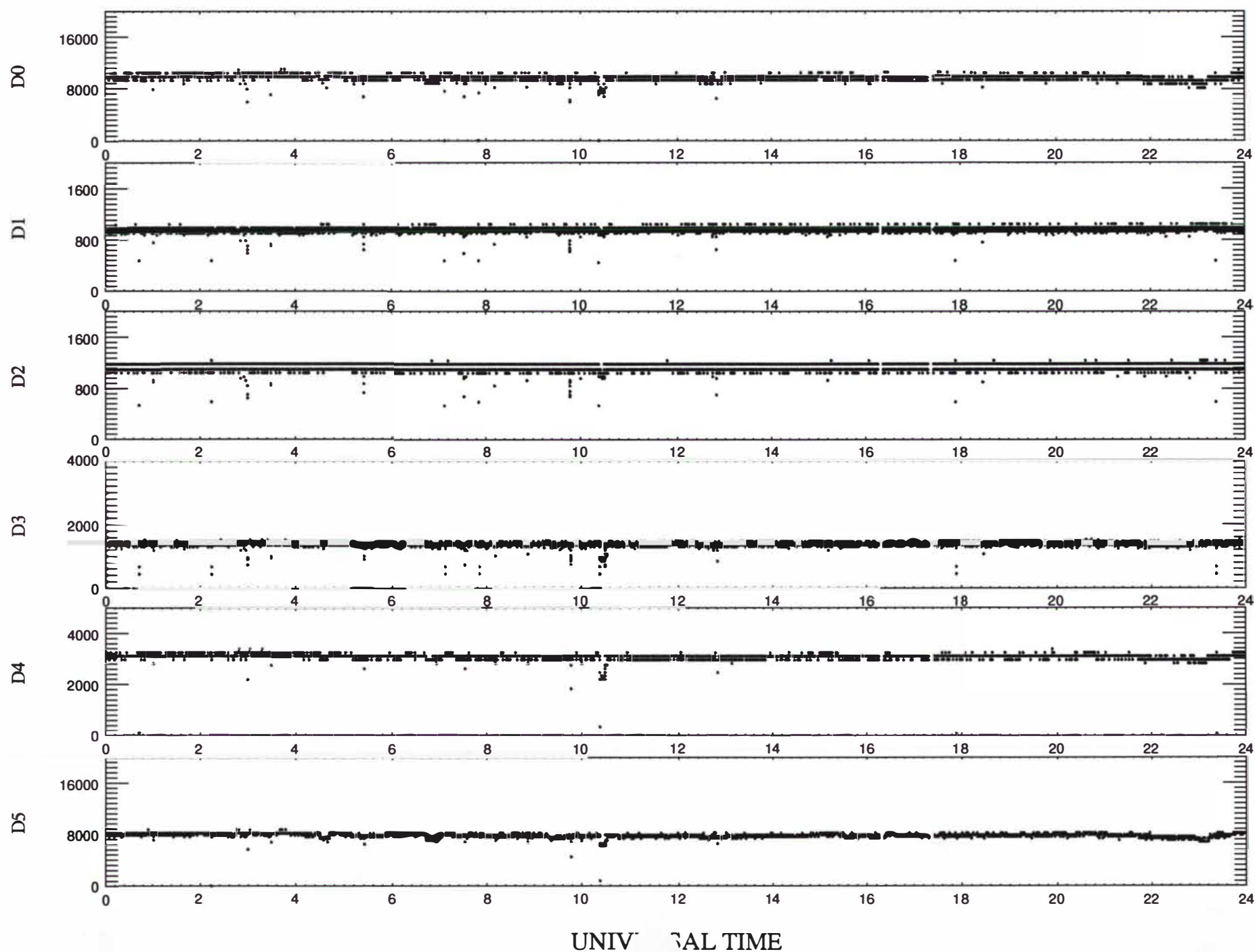


HUS 2A, MODE 1, NOT AVERAGED EDR day 145, year 1995 to day 145, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIV TIME



Date: Aug 25 2011

BURST TRIANGULATION CHECKLIST

1. Ulysses Data

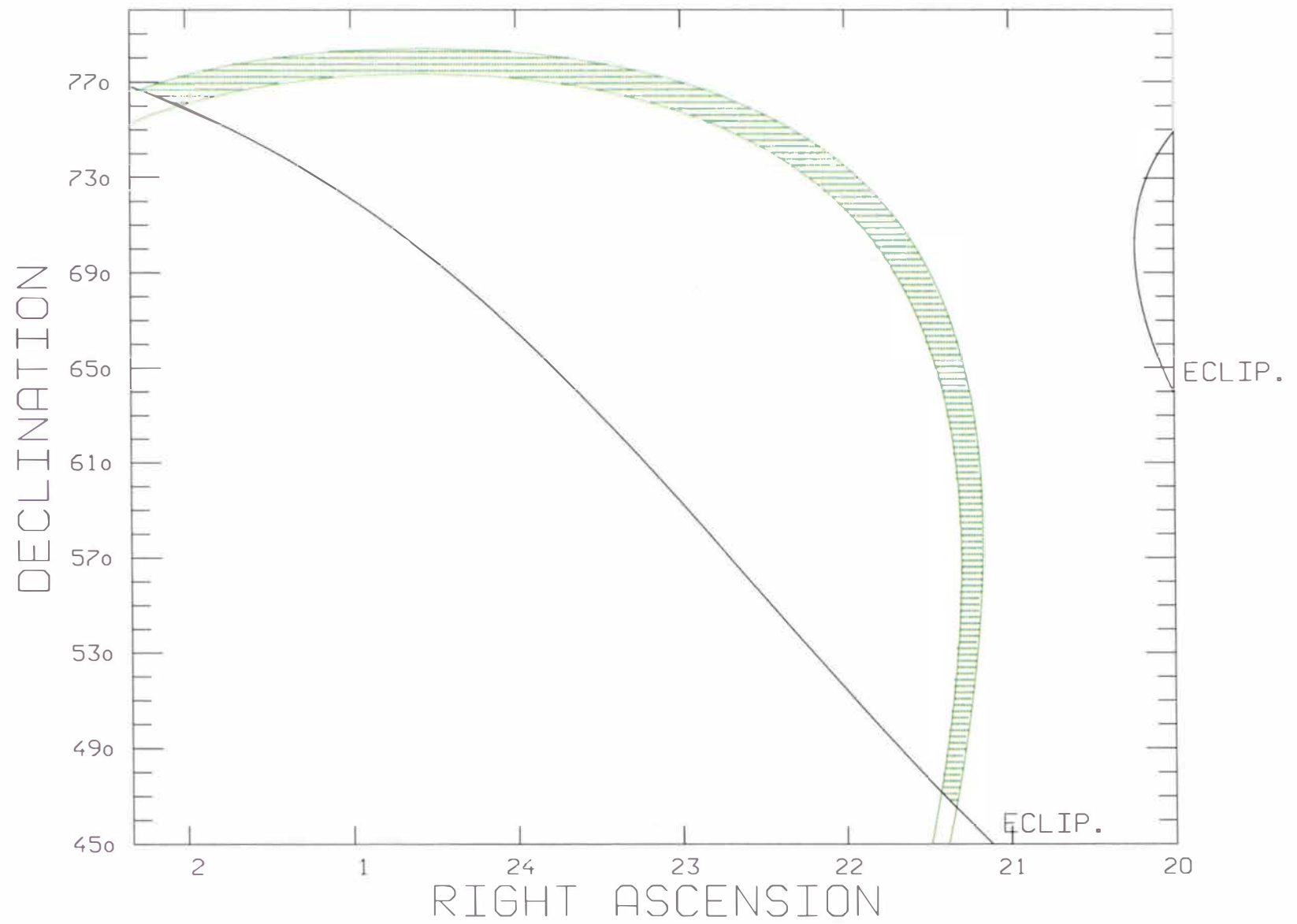
- ☒ Jim Schmidling's stat file correction applied?
- ☒ Final ephemeris used?
- ☒ Final, CDROM data used?
- ☒ Were data checked by Joe Springer for 0.5 s errors?
- ☒ If a 2 spacecraft triangulation, was Ulysses time corrected for aberration?
- ☒ Is the order of the data in CORREL such that a vernier is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

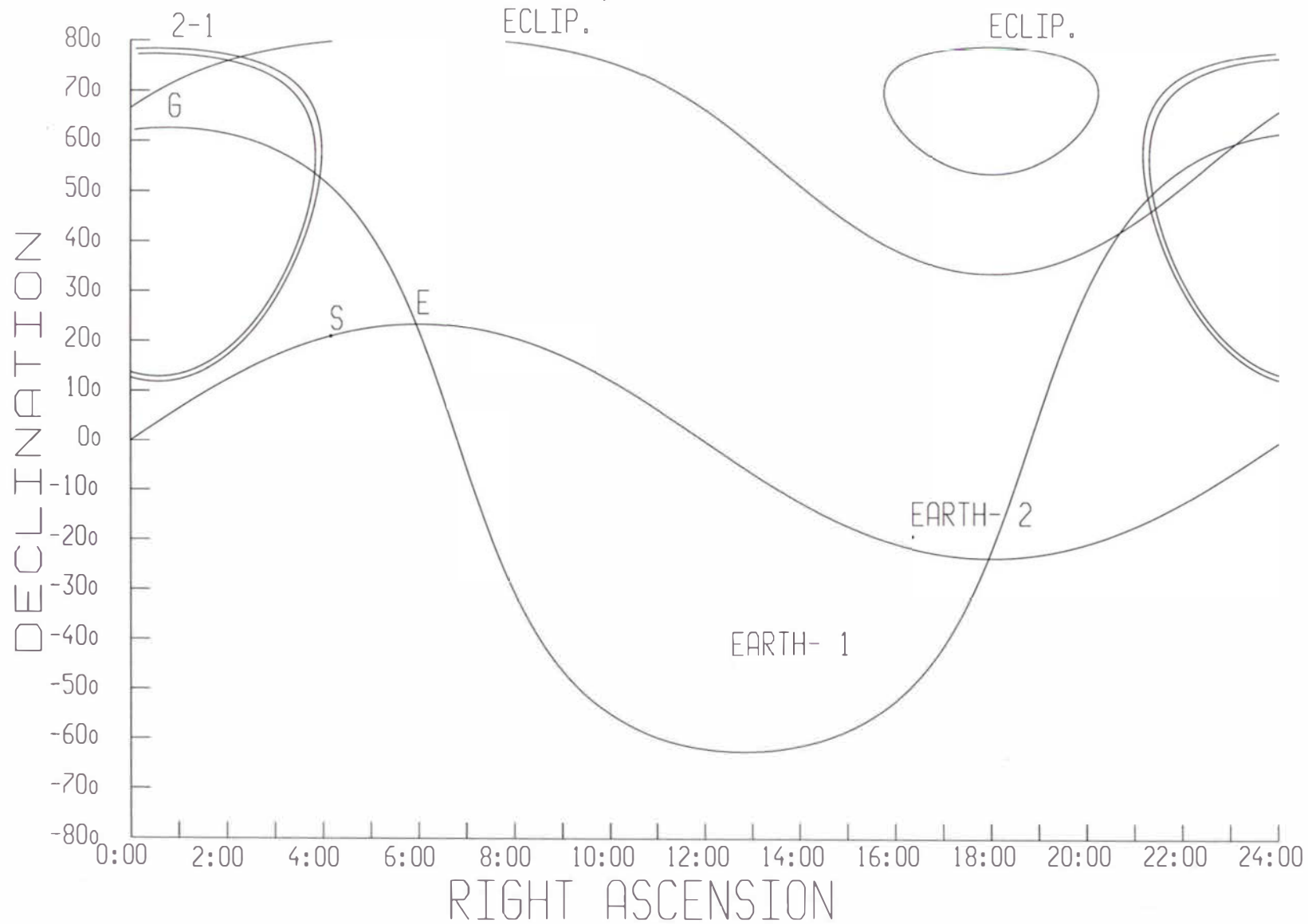
- ☐ Ephemeris of PVO used (not Venus)?
- ☐ 2000 coordinates used?
- ☐ Geocentric time used?
- ☒ ACCESS and MBL databases updated with identical times?

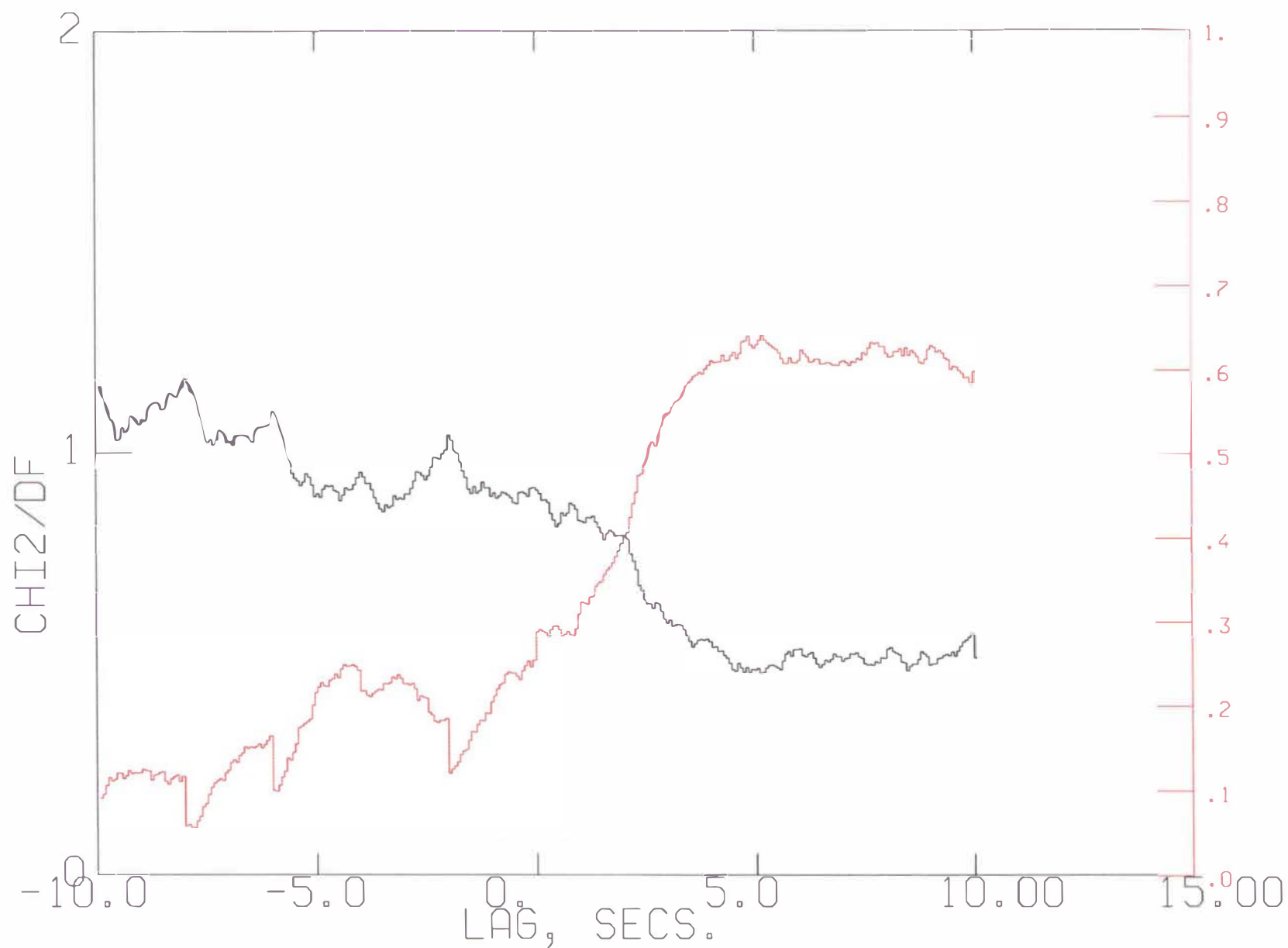


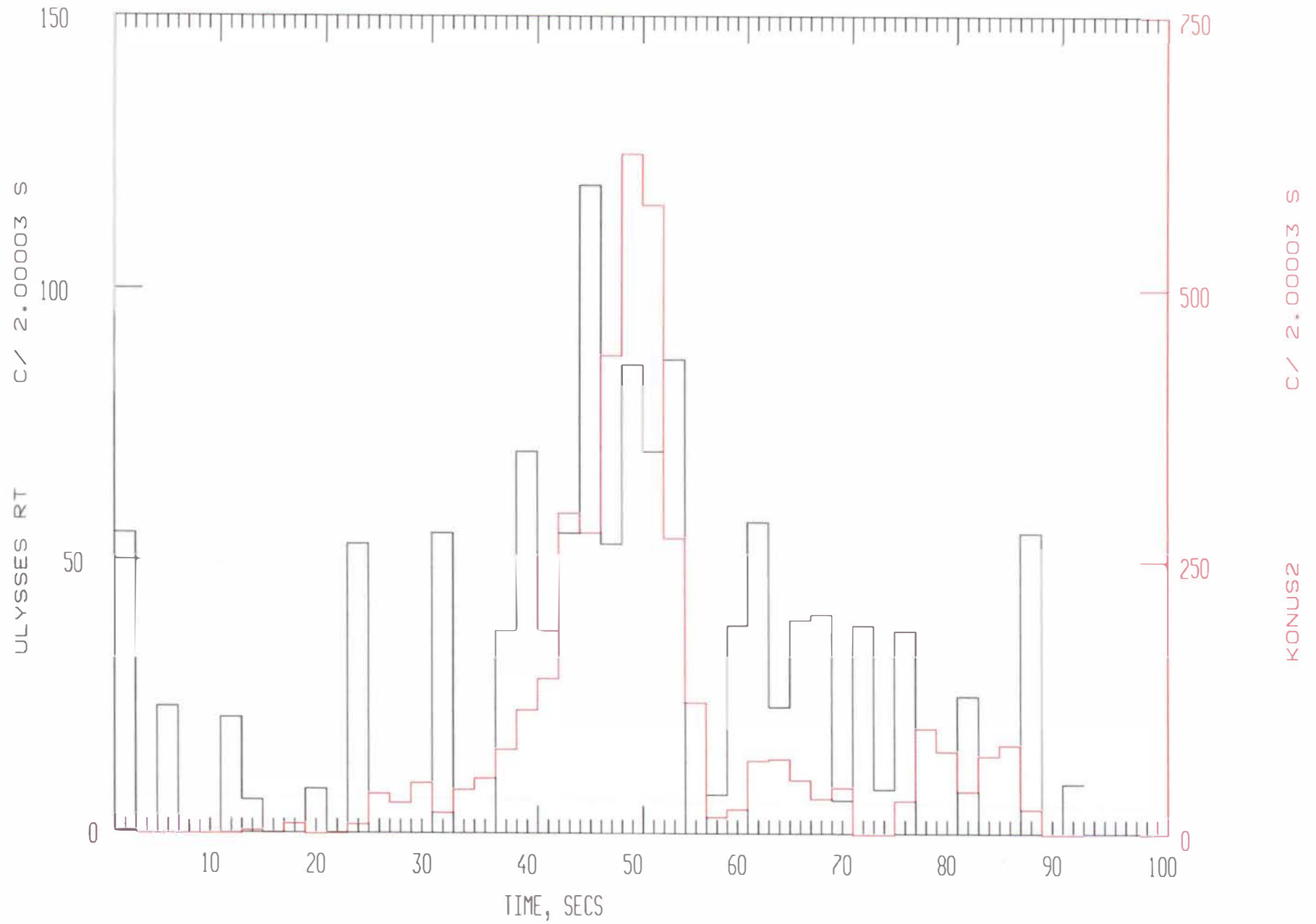
EVENT OF MAY 26, 1995 4:22

25/08/2011

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

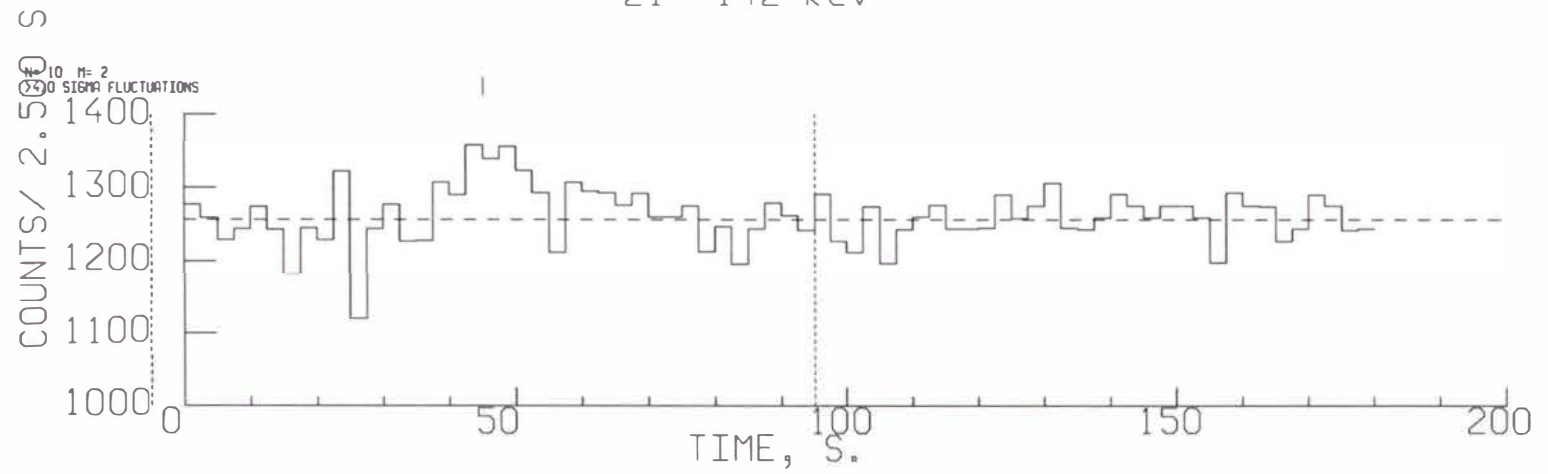






ULYSSES RT
26/ 5/95 15768.117 s
0.250 S INTERVALS REGROUPED BY 10
21- 142 keV

25/ 8/11



KONUS 19950526 15852

ULYSSES RT

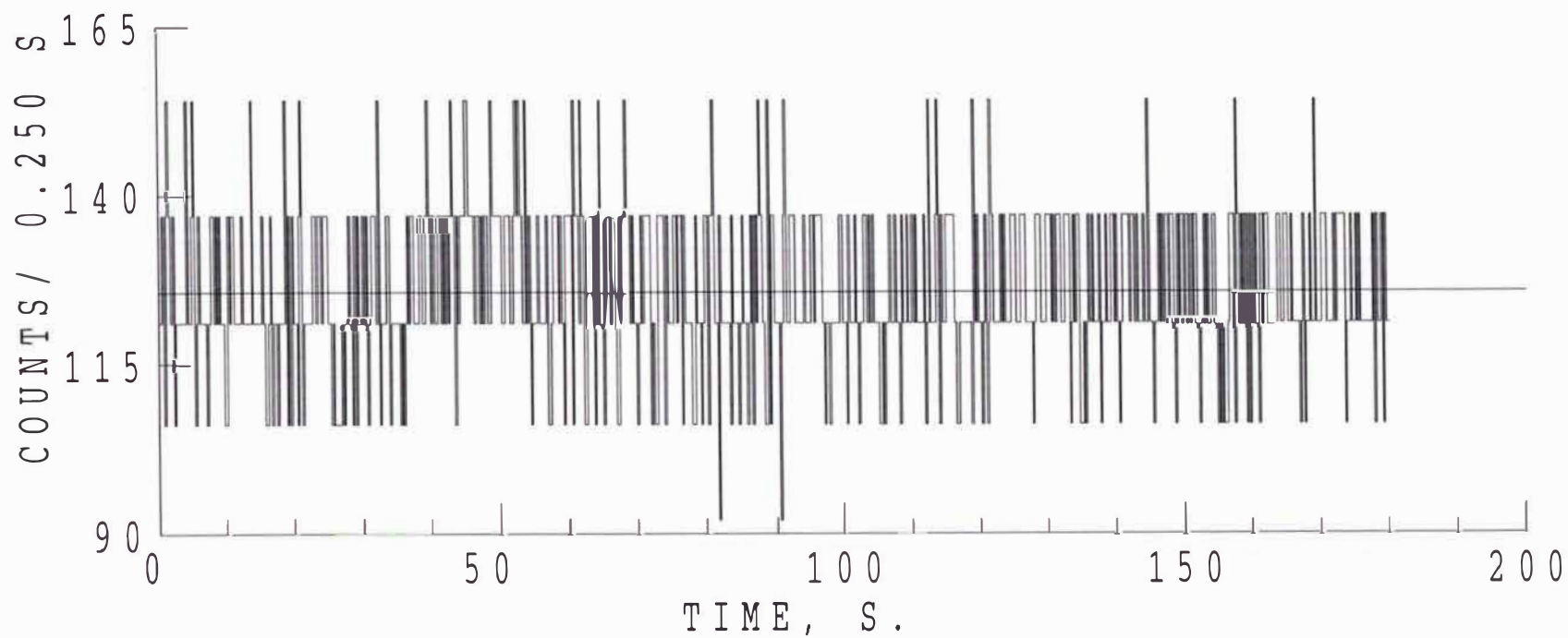
24 / 08 / 11

26 / 05 / 95 15768.117 s

0 - 0 keV

N= 10 M= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS

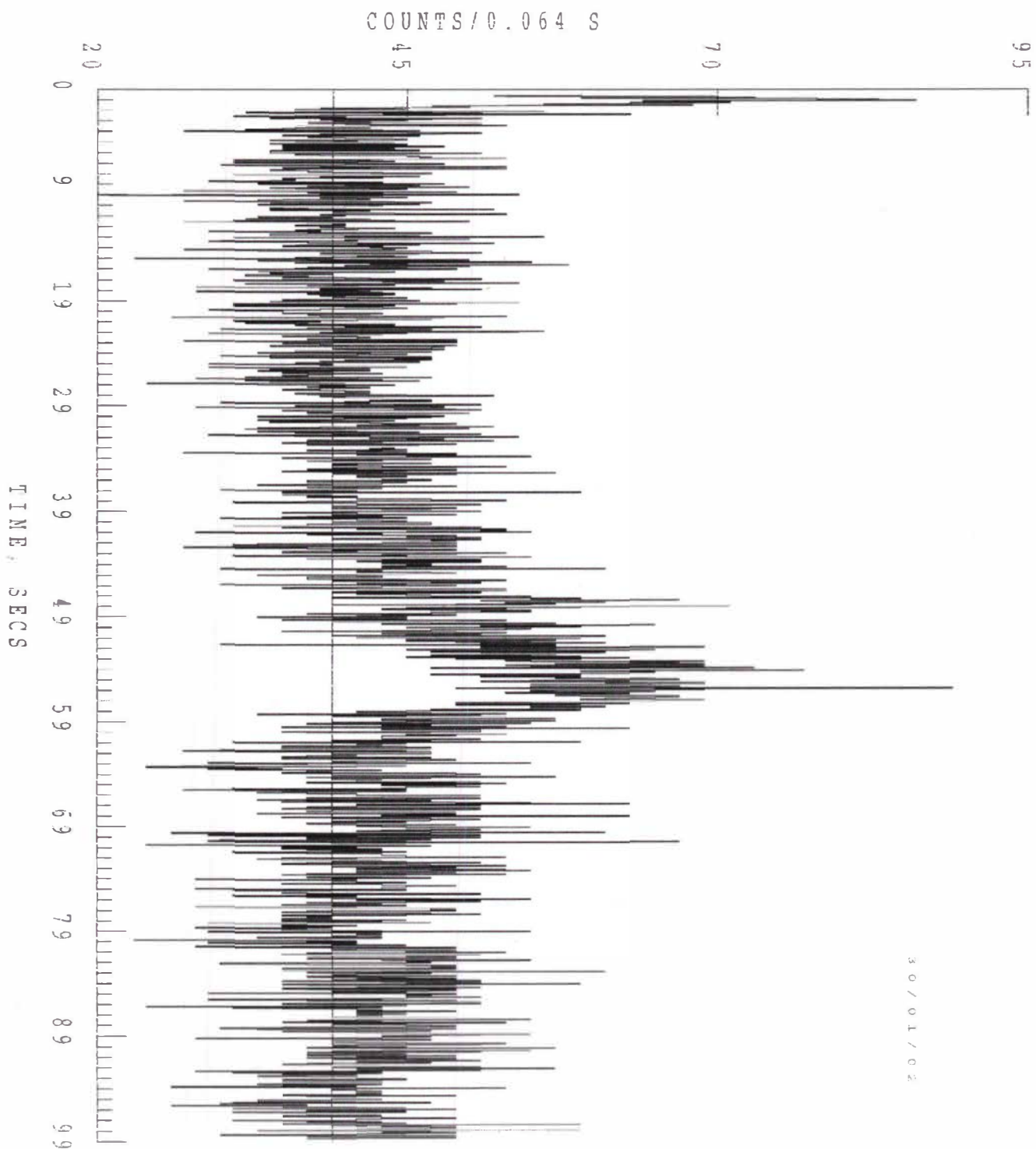


KONUS2

26/05/95

16613.640

50 - 200 keV



KONUS2 19950526 16613

ULYSSES RT

30/01/02

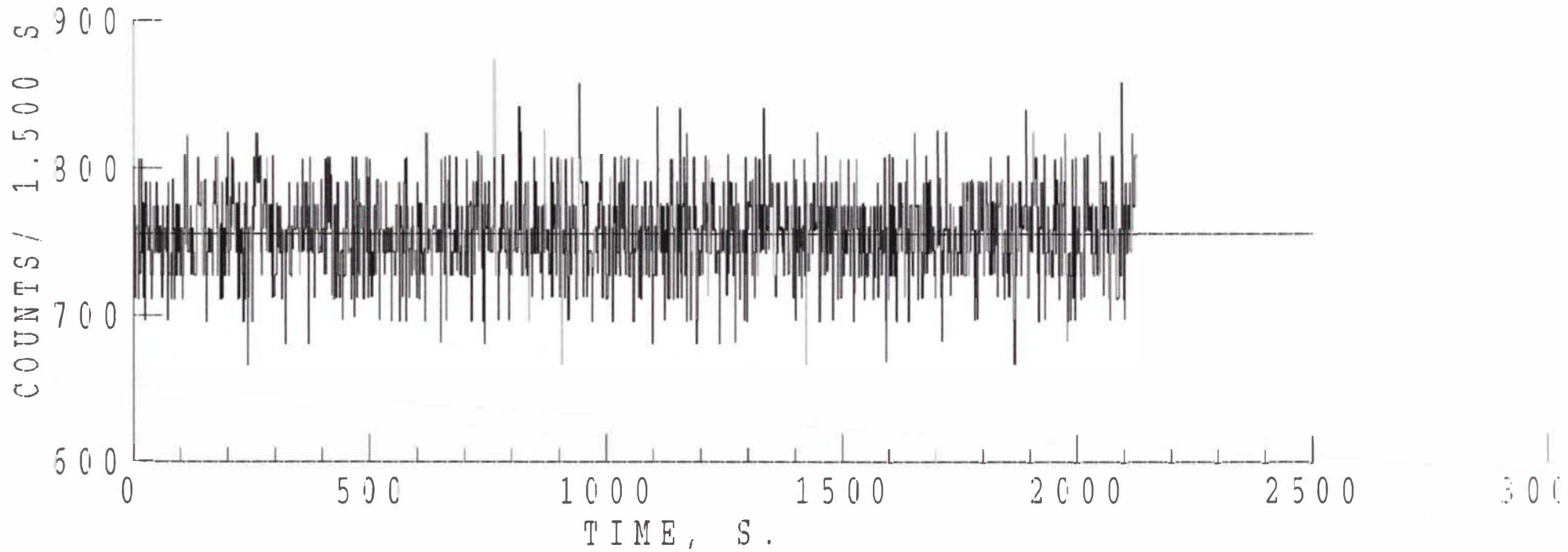
26/05/95 15552.112 s

0.250 S INTERVALS REGROUPED BY 6

0 - 0 keV

N= 10 Y= 10
>4.0 SIGMA FLUCTUATIONS

N= 10 Y= 2
>4.0 SIGMA FLUCTUATIONS



From HENZE@fender.msfc.nasa.gov Tue May 30 07:56 PDT 1995
Date: Tue, 30 May 1995 9:56:17 -0500 (CDT)
From: HENZE@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 03604

TIME: TJD=9863 SECONDS=22331

TYPE: PARTICL SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

From RICHARDSON@ssl.msfc.nasa.gov Tue May 30 09:13 PDT 1995
Date: Tue, 30 May 1995 11:13:16 -0500 (CDT)
From: RICHARDSON@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.: 3605

TIME: TJD=9864 SECONDS=19747

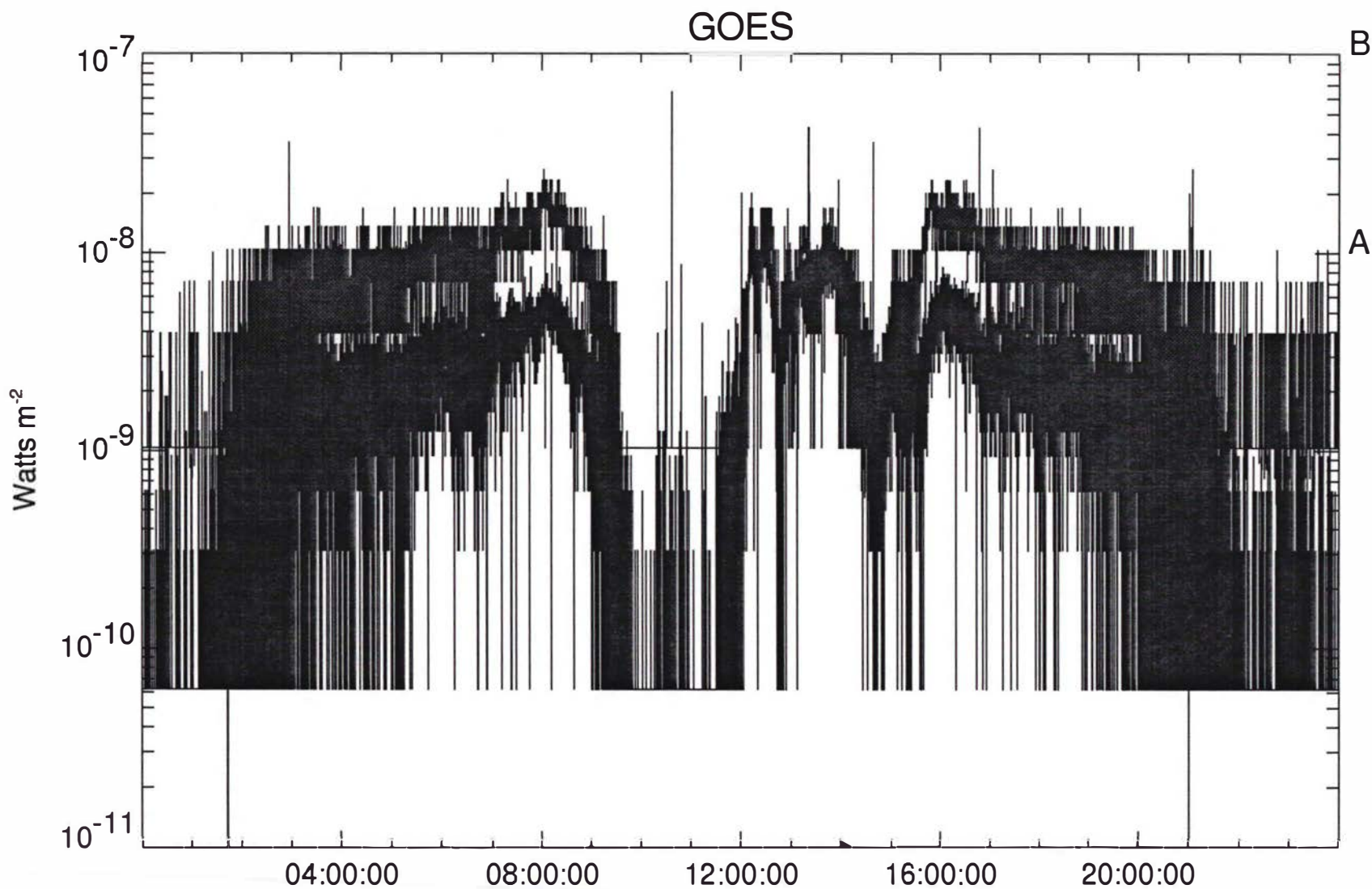
TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY



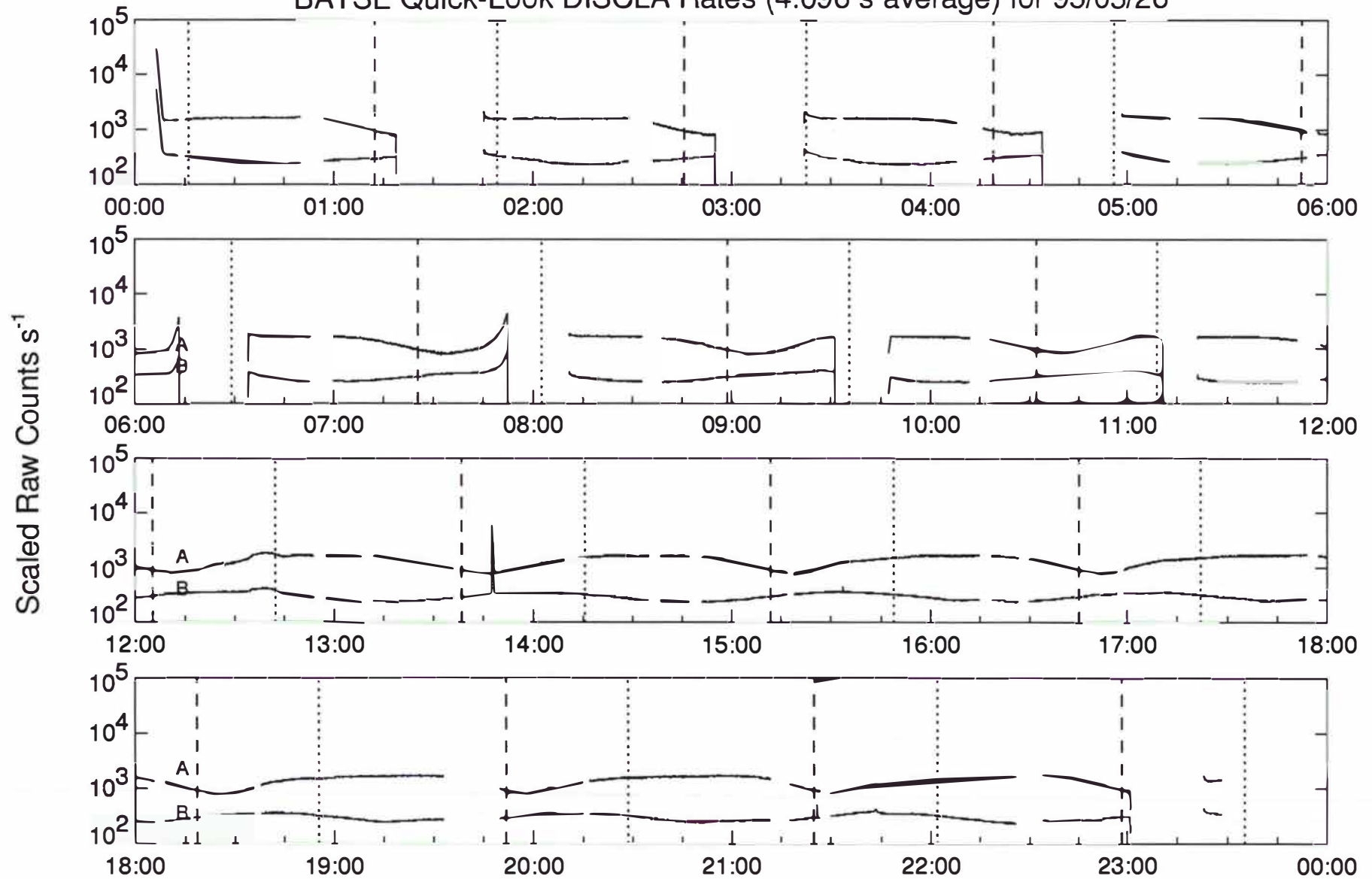
Data Start: 95/05/26, 0000:01

Plot created: 95/05/28, 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 95/05/26



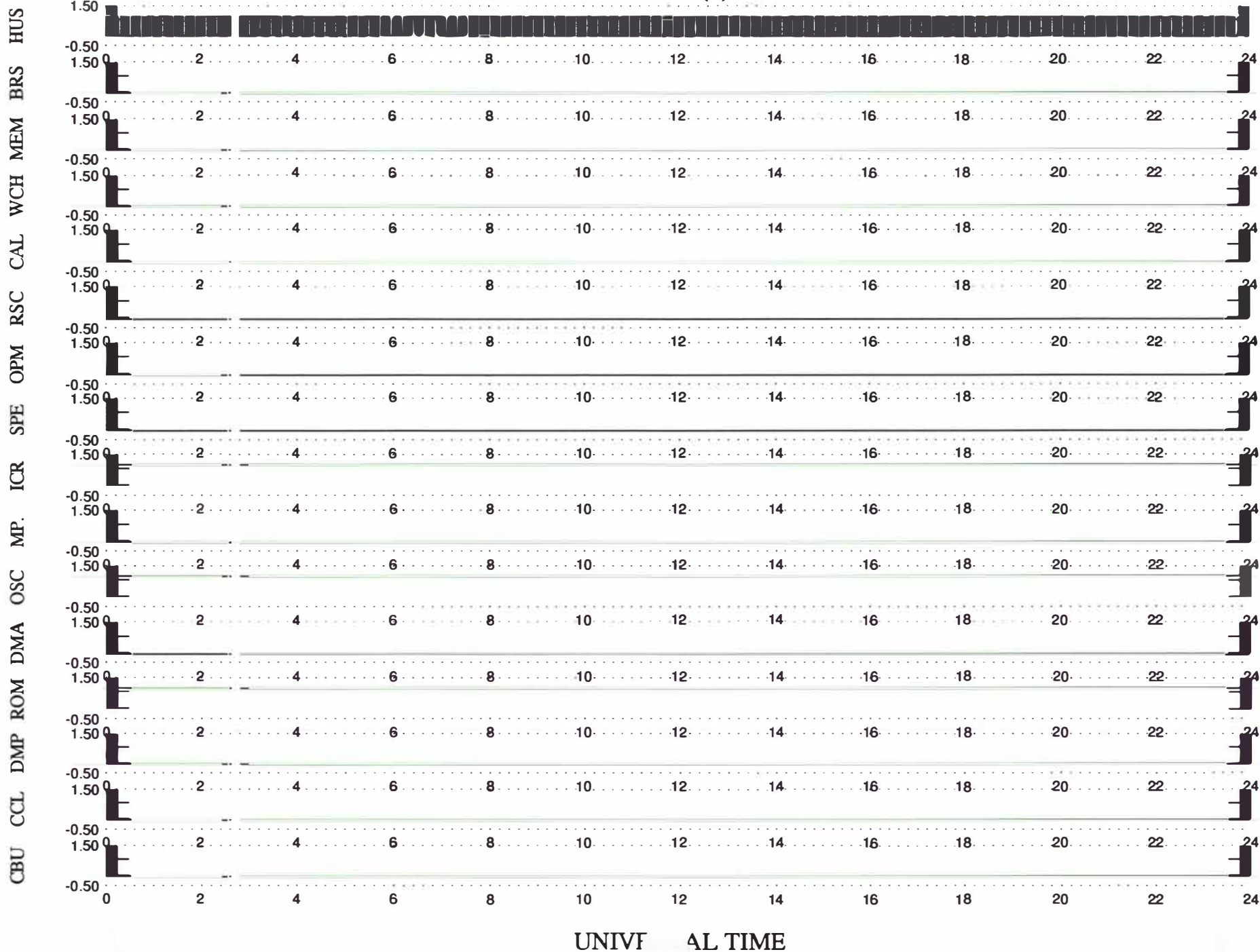
Current Time: 95/05/28, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

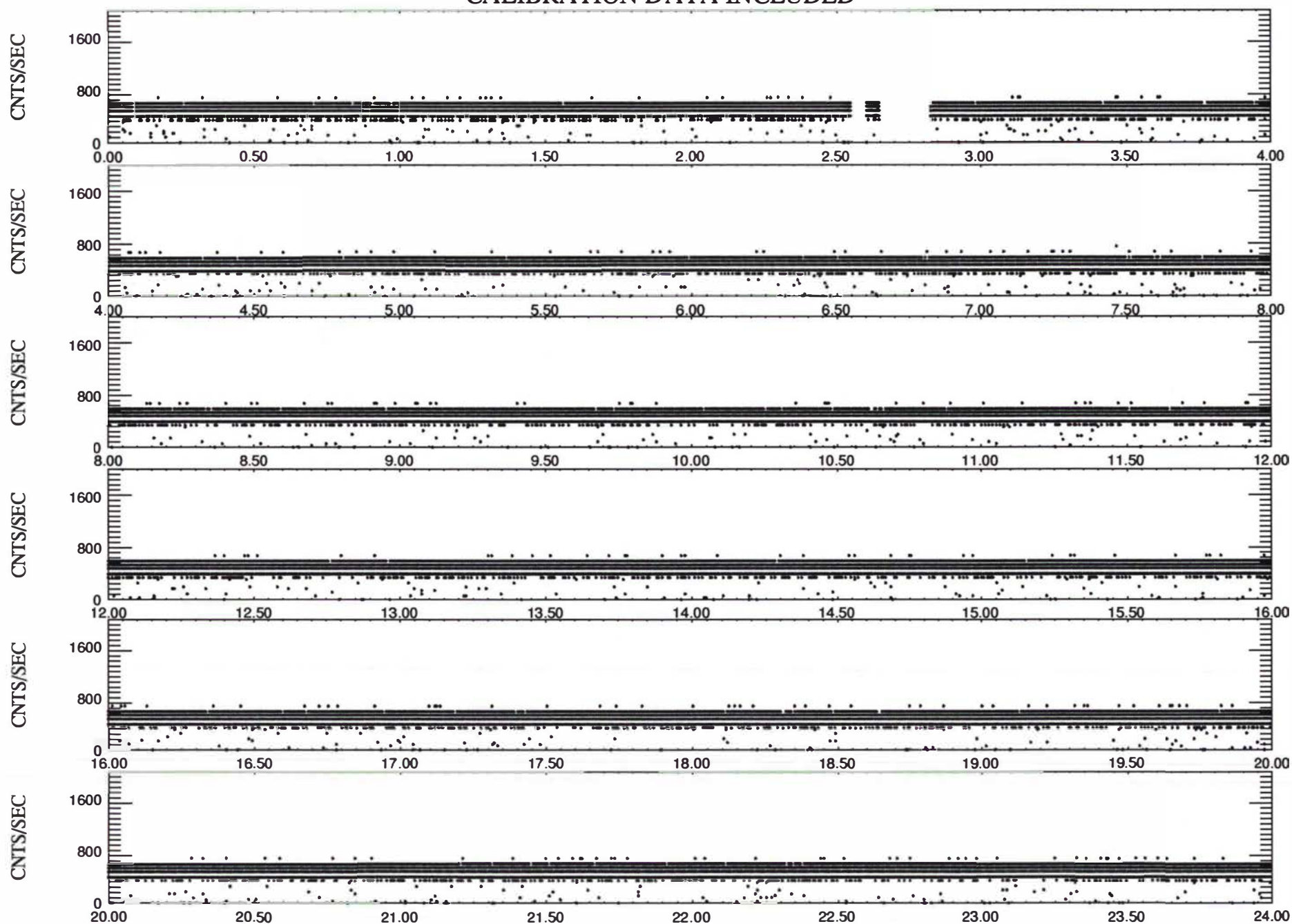
HUS MODES EDR day 146, year 1995 to day 146, year 1995
NO BURST (4)

11/21/95

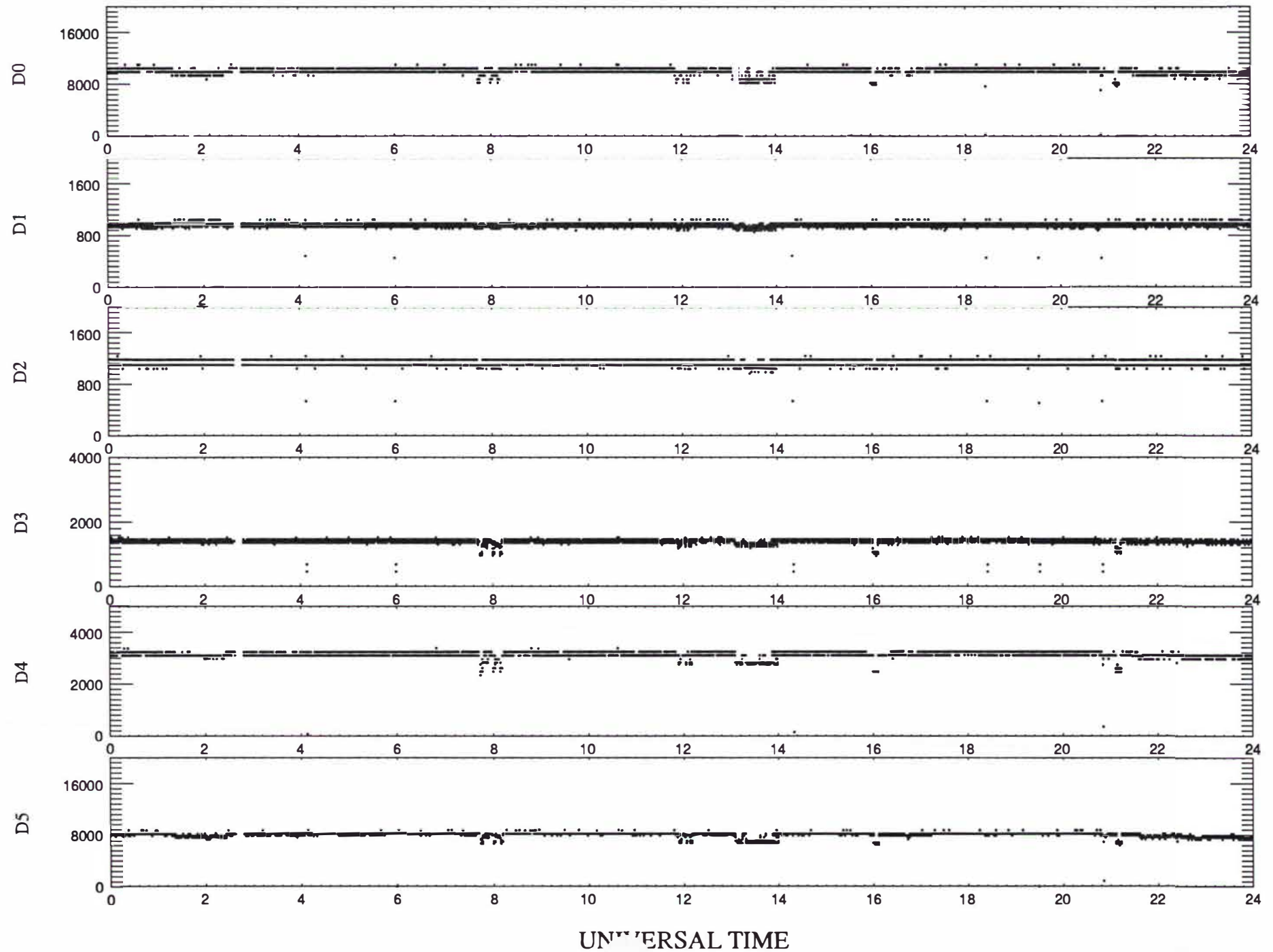


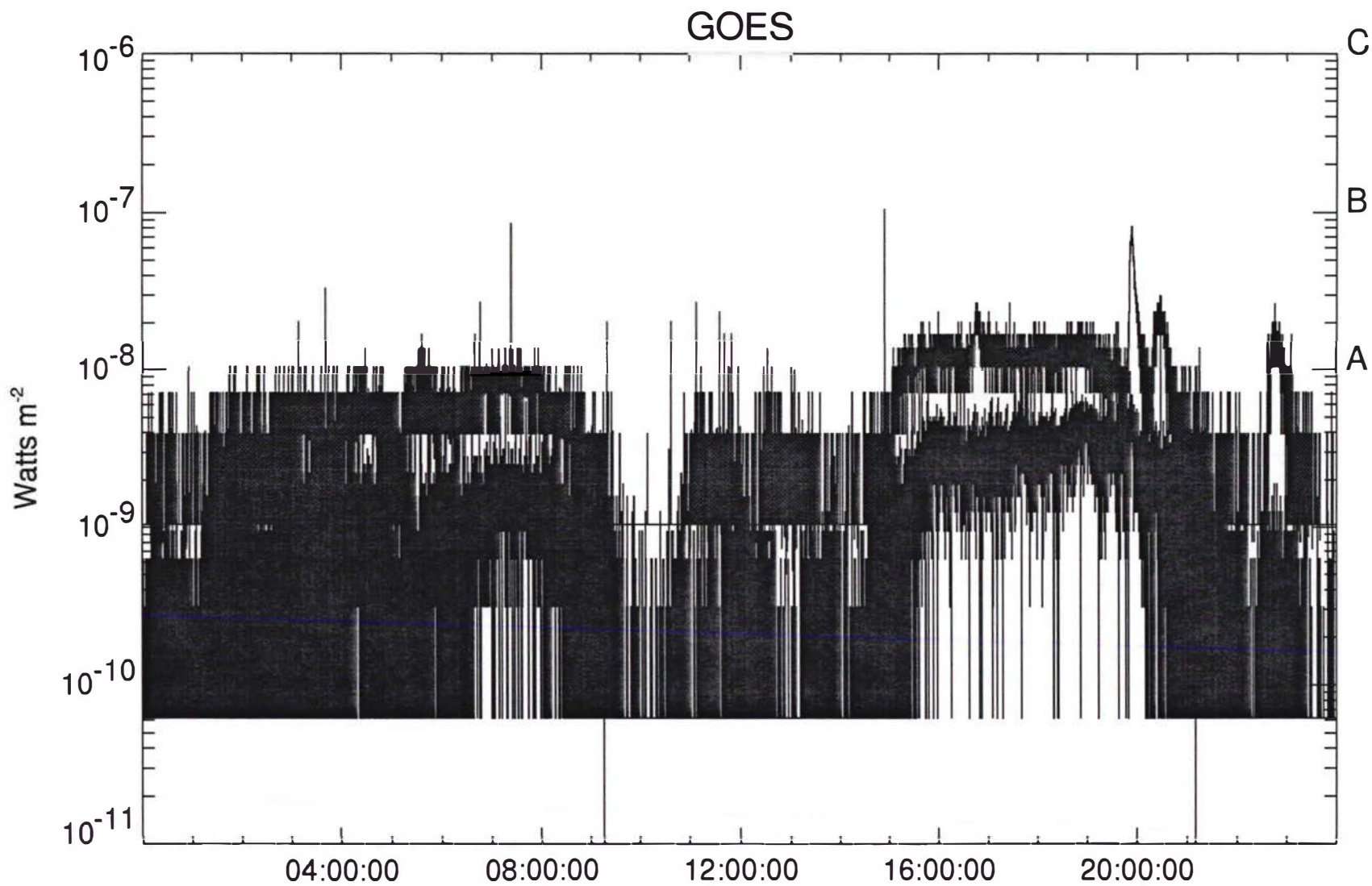
HUS 2A, MODE 1, NOT AVERAGED EDR day 146, year 1995 to day 146, year 1995
CALIBRATION DATA INCLUDED

11/21/95



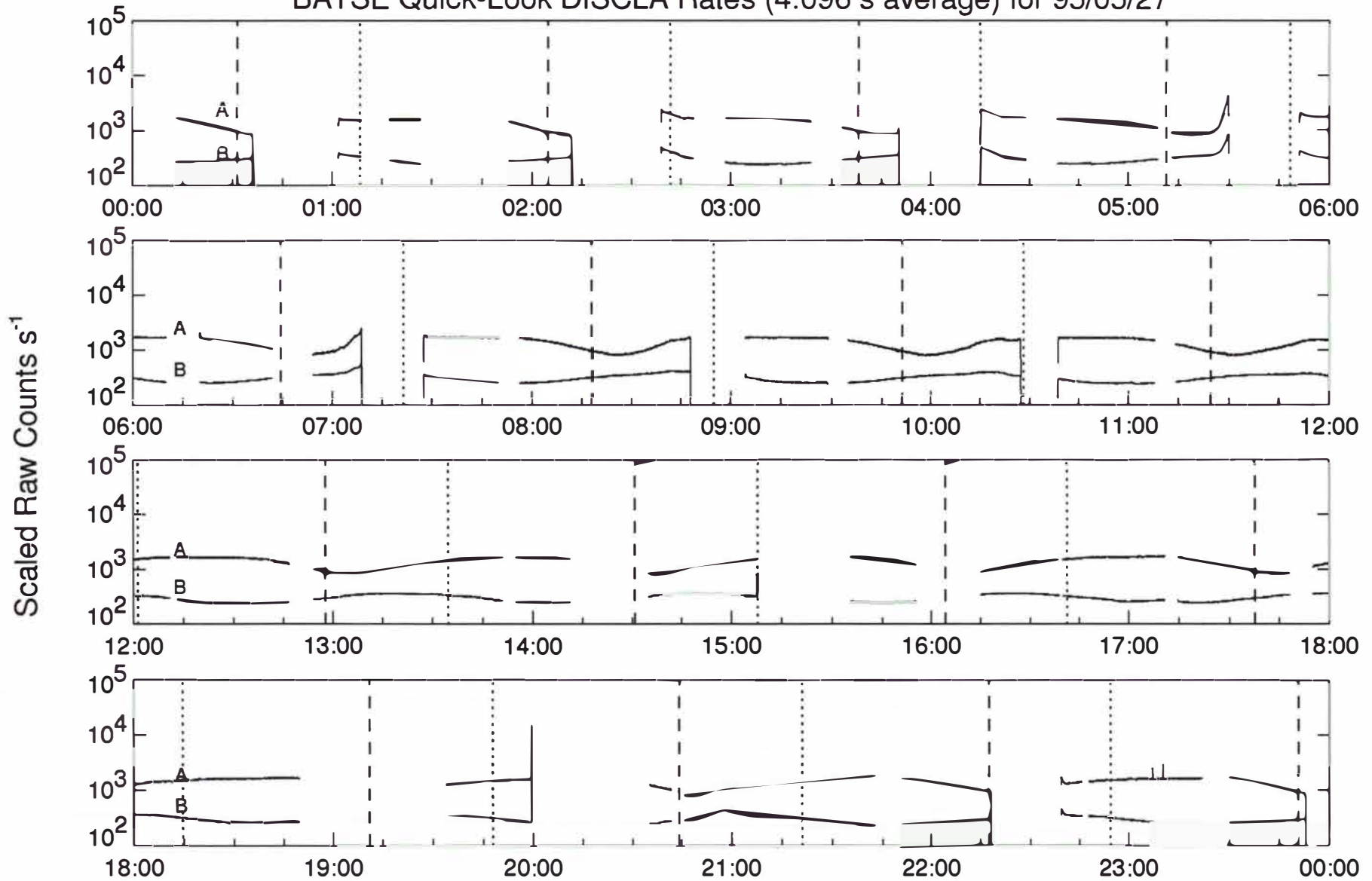
UNIVERSAL TIME





Data Start: 95/05/27, 0000:02 Plot created: 95/05/29, 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 95/05/27



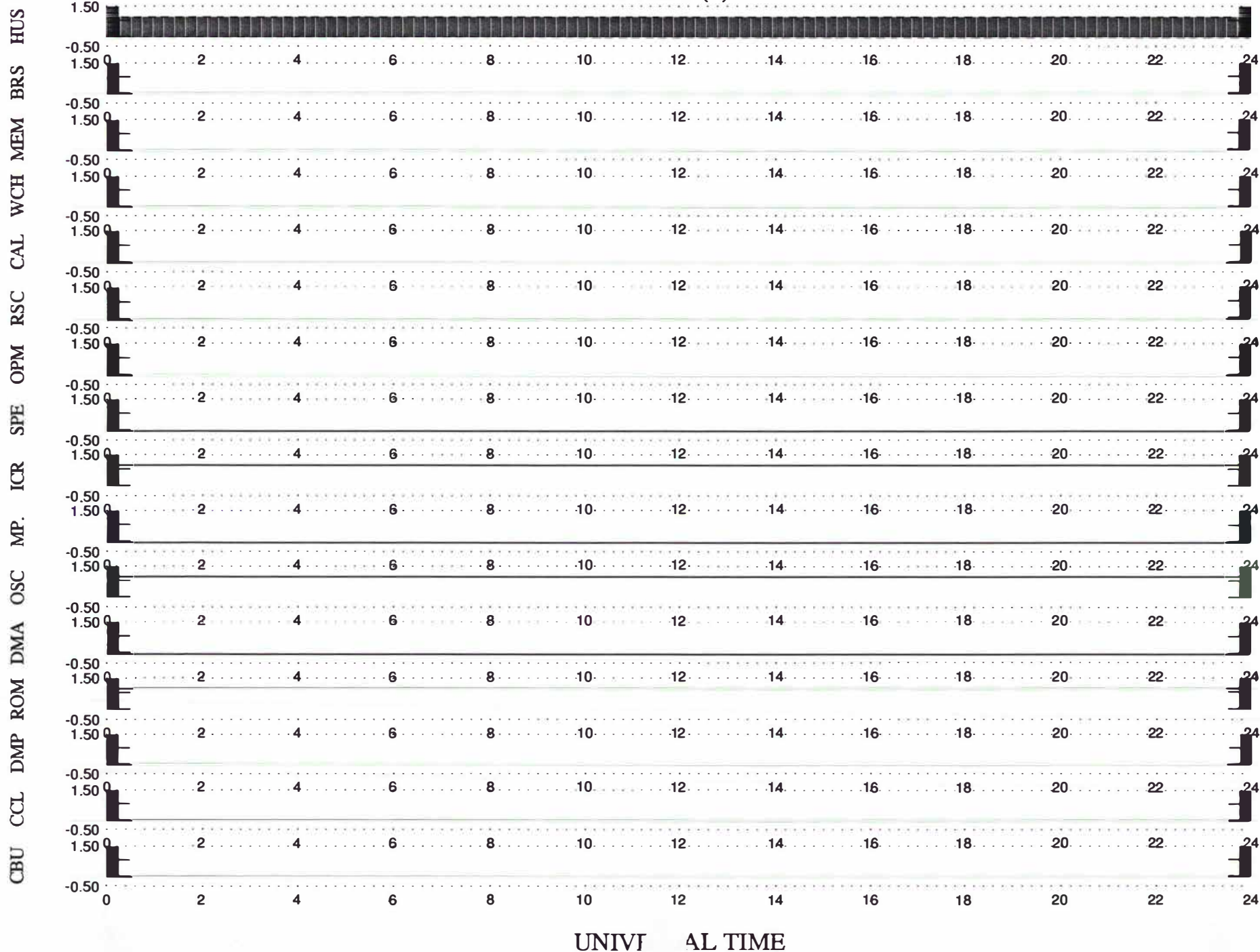
Current Time: 95/05/29, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

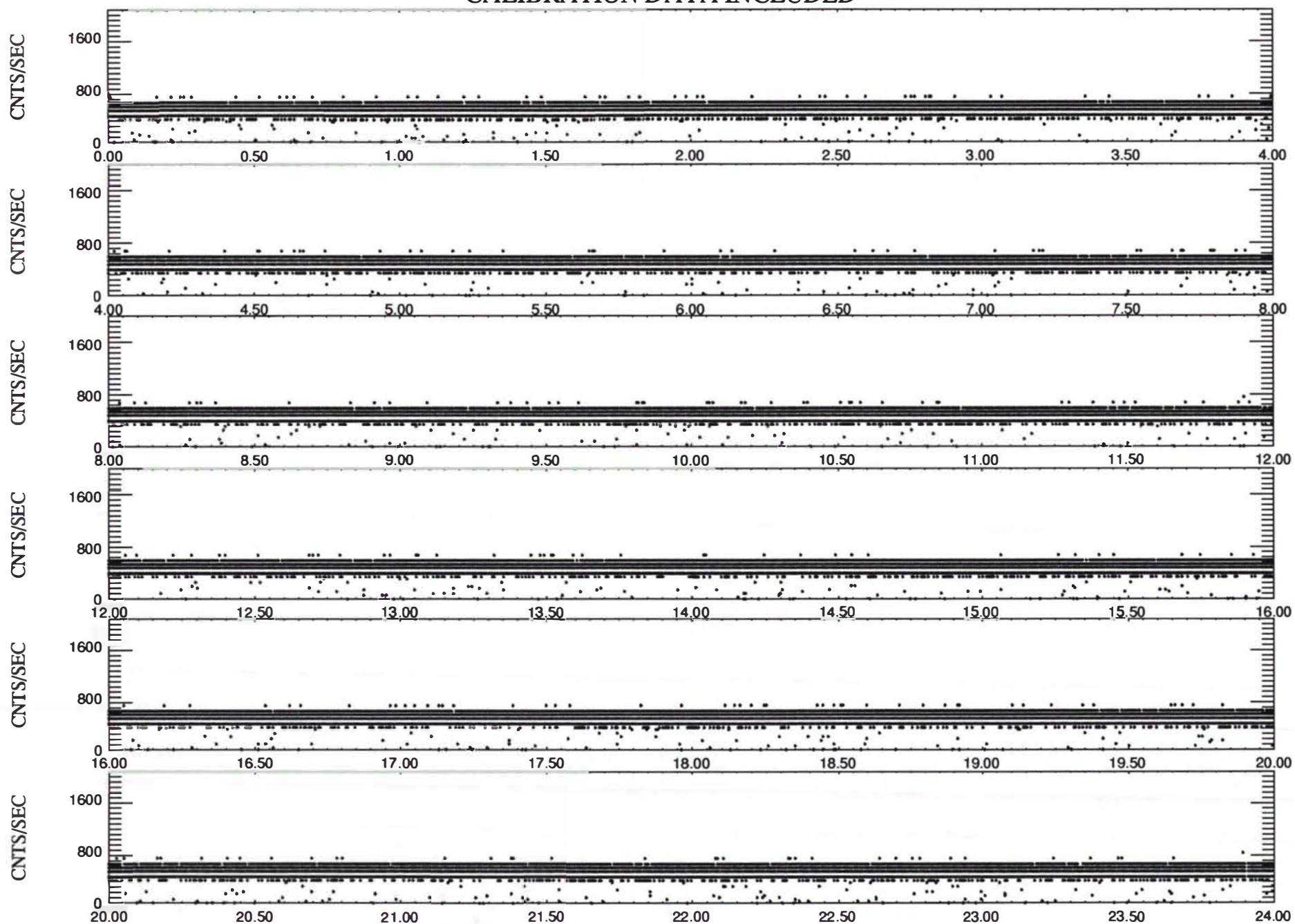
HUS MODES EDR day 147, year 1995 to day 147, year 1995
NO BURST (4)

11/21/95

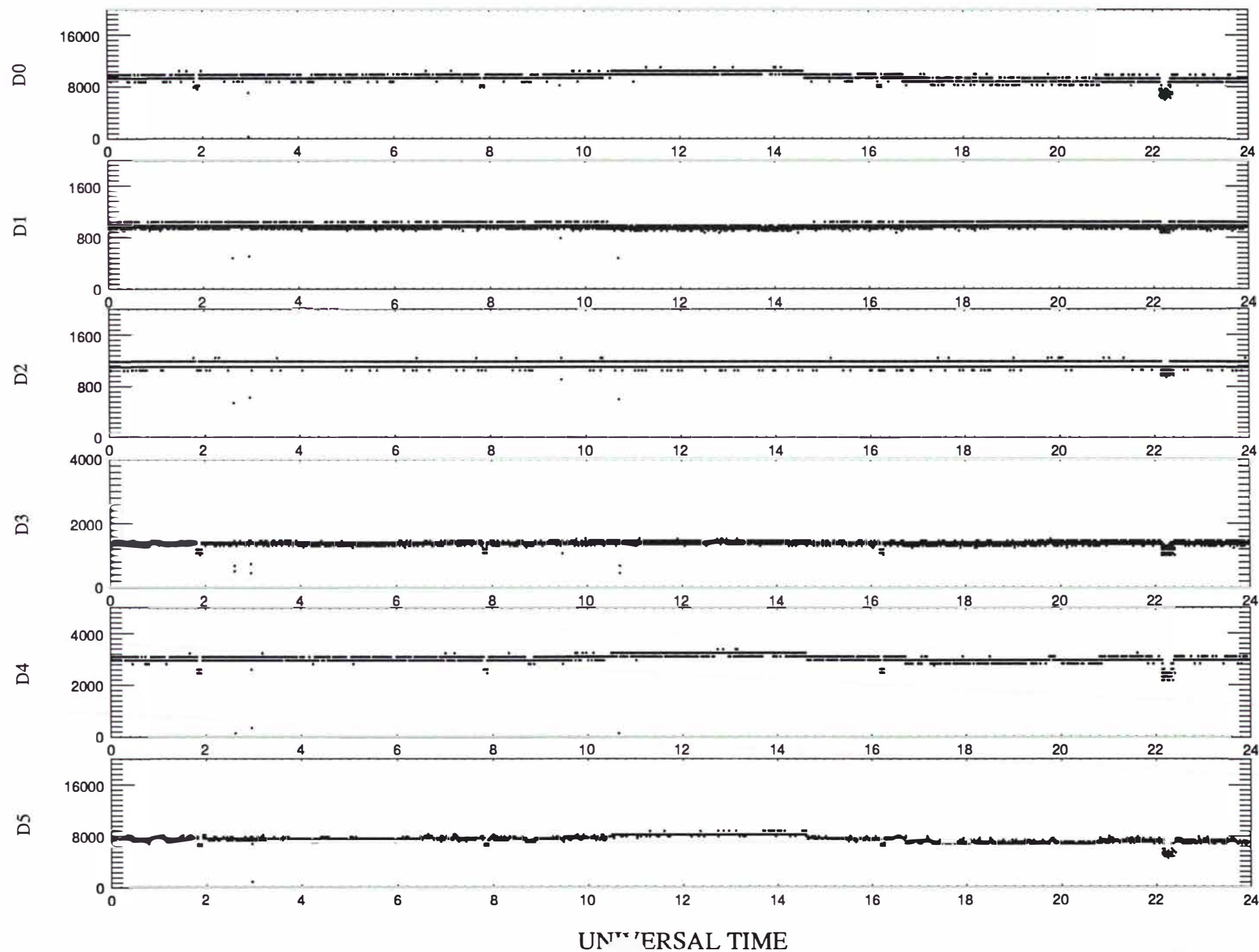


HUS 2A, MODE 1, NOT AVERAGED EDR day 147, year 1995 to day 147, year 1995
CALIBRATION DATA INCLUDED

11/21/95



UNIVERSAL TIME



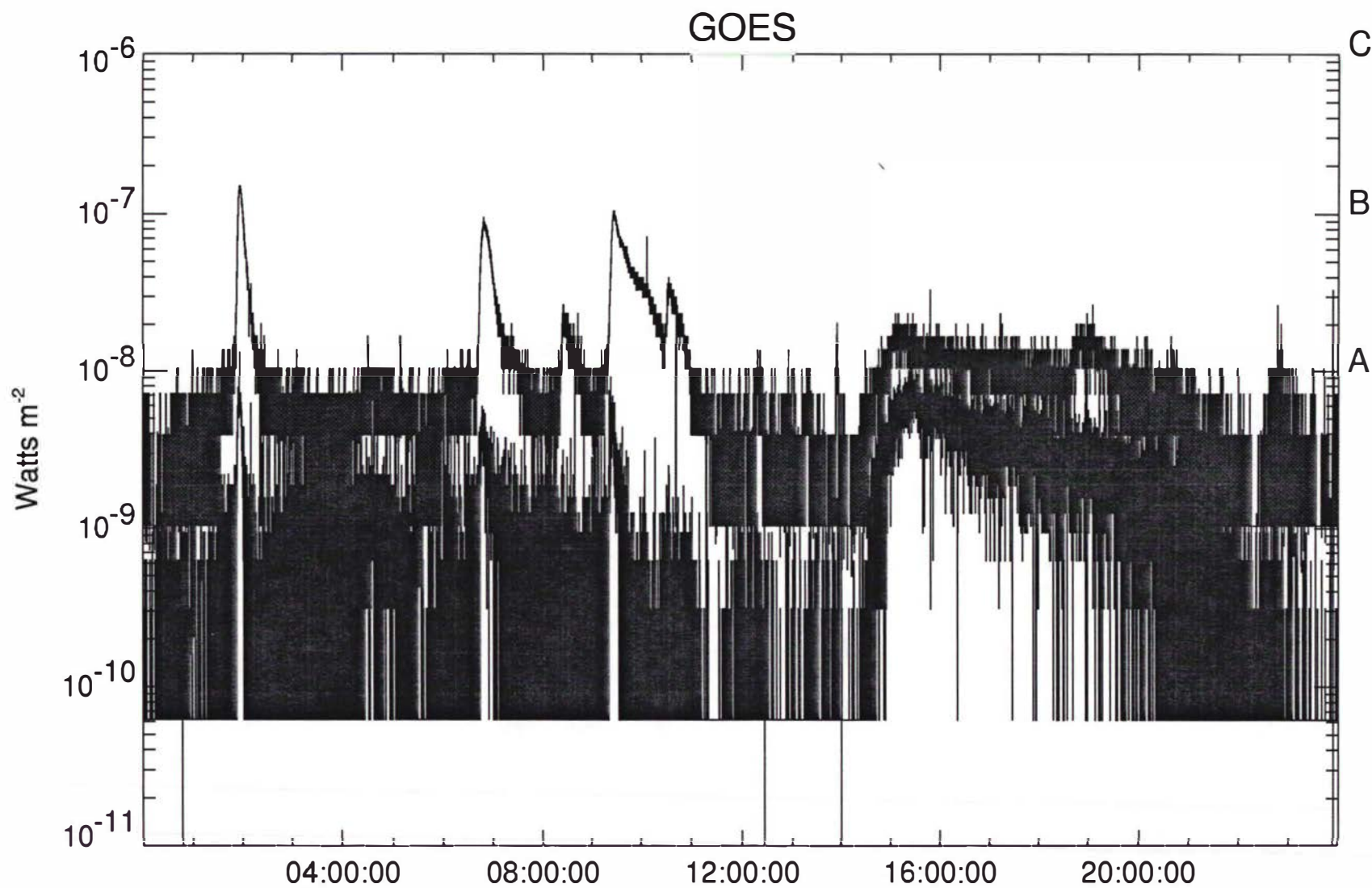
From cline@tgrs.gsfc.nasa.gov Wed May 31 11:05 PDT 1995
Date: Wed, 31 May 1995 11:05:12 -0700
Mime-Version: 1.0
To: KHURLEY@sunspot.ssl.berkeley.edu
From: cline@tgrs.gsfc.nasa.gov (T L Cline)
Subject: Trigger in question

KEVIN:
PAUL BUTTERWORTH SAYS

>Tom,
>Konus, like BATSE, didn't trigger on May 28. The background monitors are
>also quite featureless from 20 to 22 UT.
>Paul.

Too bad. BUT what about the synthesis stuff? When you get a chance I'll be
happy to process it. - TLC

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



Data Start: 95/05/28, 0000:00

Plot created: 95/05/30, 0528

Channel

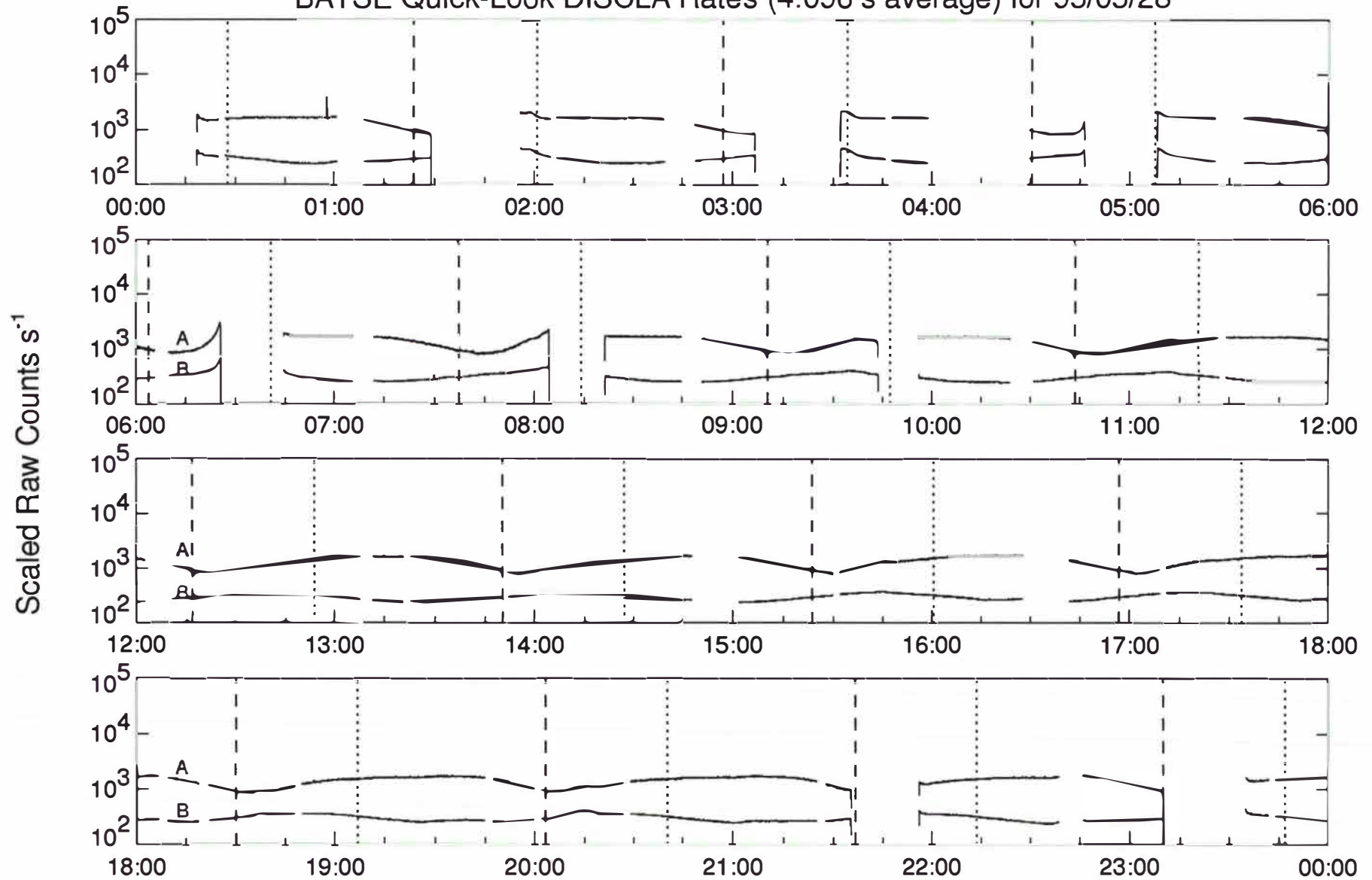
1 (1.0 - 8.0 Angstroms)

Background not subtracted

2 (0.5 - 4.0 Angstroms)

Background not subtracted

BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/28



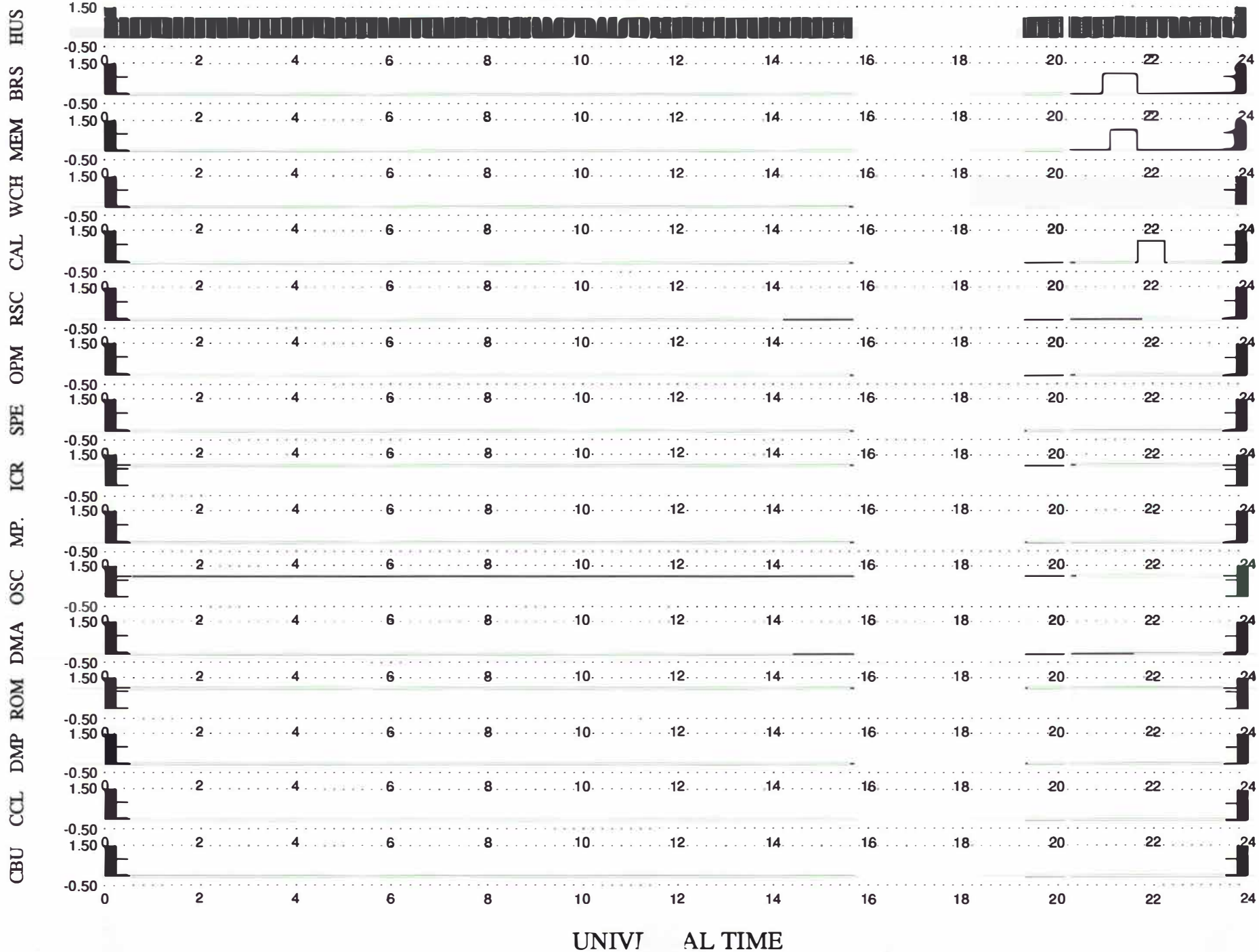
Current Time: 95/05/30, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

HUS MODES EDR day 148, year 1995 to day 148, year 1995
BURST NUMBER 5

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 148, year 1995 to day 148, year 1995
CALIBRATION DATA INCLUDED

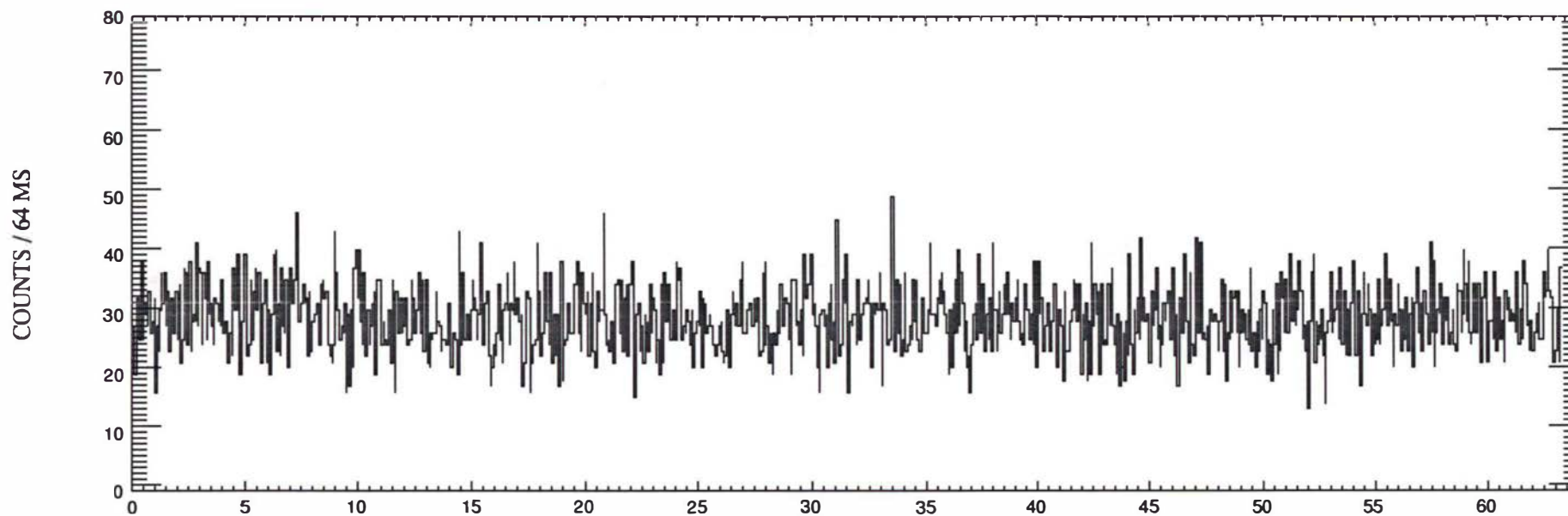
11/21/95



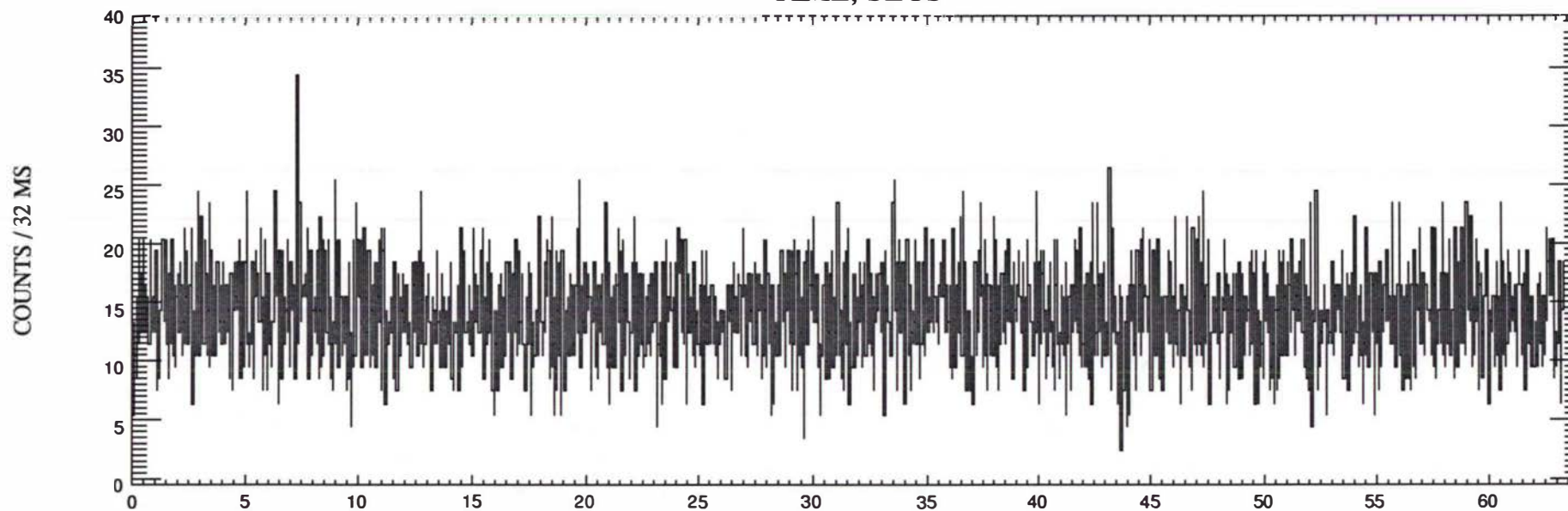
UNIV AL TIME

HUS 2A TRIGGERED DATA EDR day 148, year 1995
Burst Counter 5 at UT=20.986392114427 h=75551.012 s 20:59:11.012

11/21/95



TIME, SECS

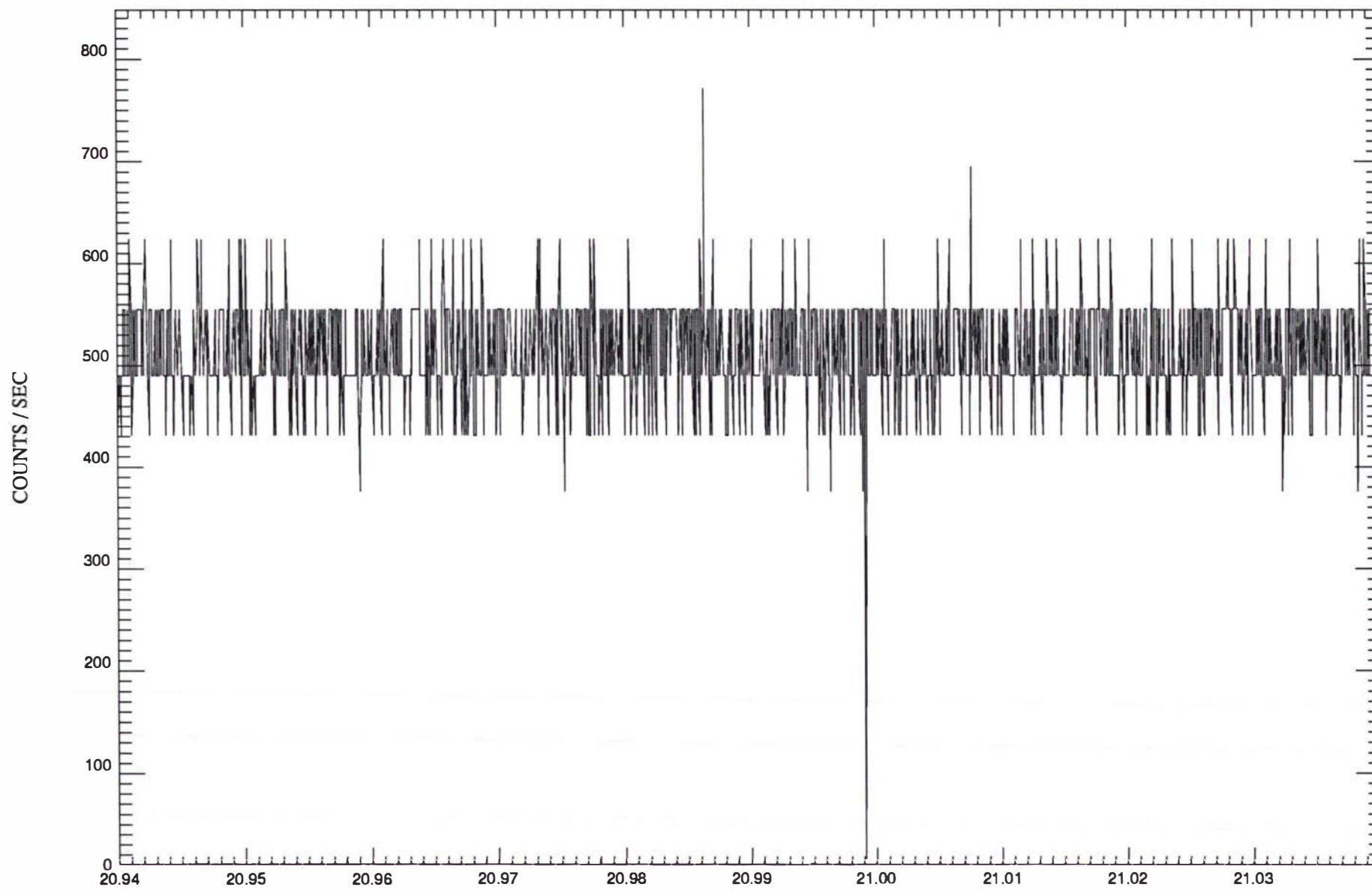


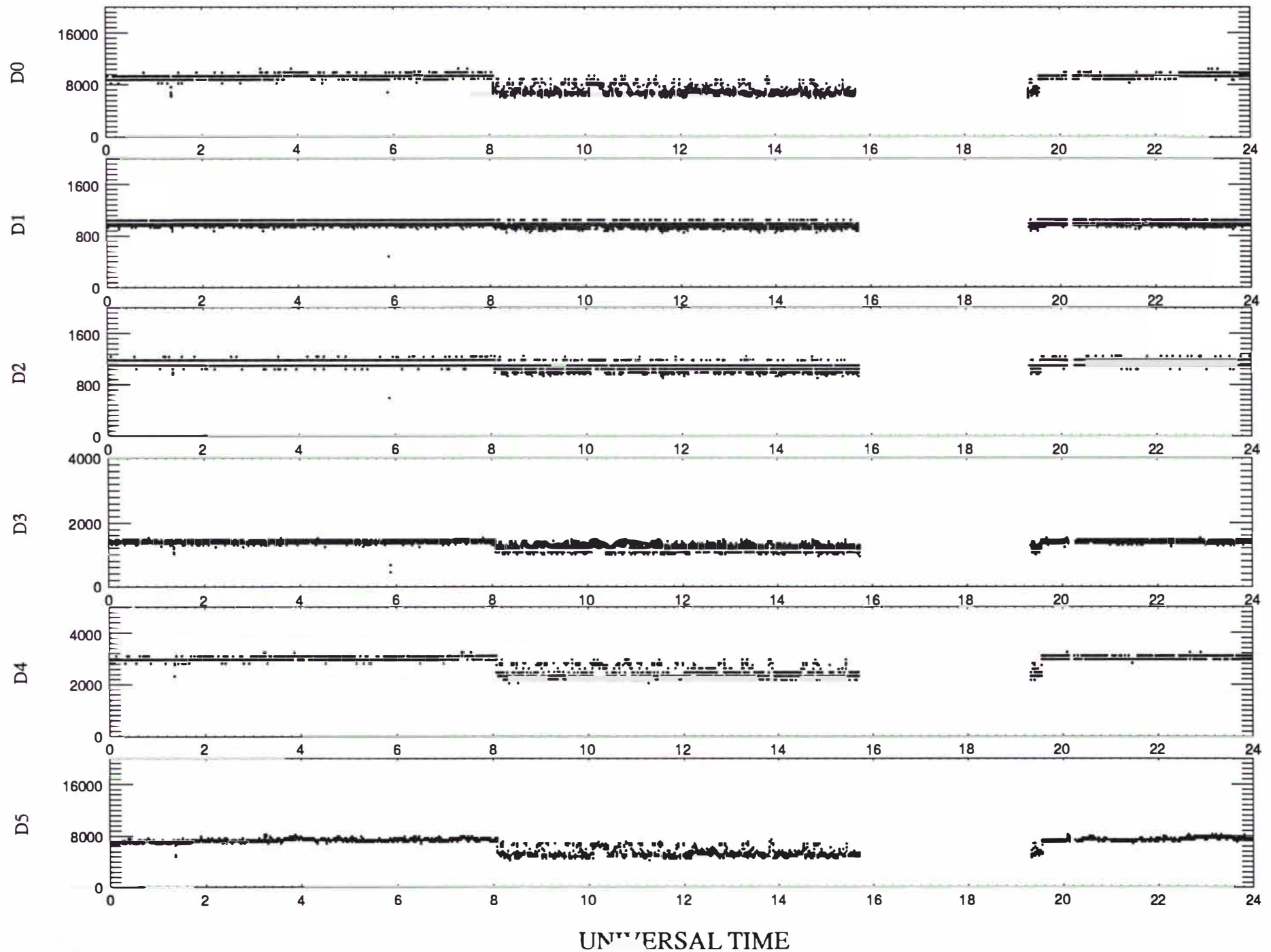
TIME, SECS

B# 1

HUS 2A, MODE 1, NOT AVERAGED QEDR day 148, year 1995 to day 148, year 1995
CALIBRATION DATA INCLUDED

5/30/95





From DEAL@ssl.msfc.nasa.gov Tue May 30 11:10 PDT 1995
Date: Tue, 30 May 1995 13:10:38 -0500 (CDT)
From: DEAL@SSLLES.MSFC.NASA.GOV
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3606

BATSEARCH PROGRAM

BATSE BURST # 3606
EVENT OF 1995 MAY 29 DAY OF YEAR=149
EVENT CROSSING TIME AT BATSE : 36893. S. OR 10:14:53.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 239.000 -21.000
BATSE PEAK COUNTING RATE: 12000 C/S

RI NO

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 29/ 5/ 95 IS:
RA= 9.582 DEC= 47.388 DIST= 2.025 AU
BATSE-ULYSSES DISTANCE = 302900780. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 47.55 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 681.93 SECS.
CROSSING TIME AT ULYSSES IS 37575. S. OR 10:26:14 +/- 189.79 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 29/ 5/ 95 IS:
RA= 154.047 DEC= 12.243 DIST= 1.391 AU
MARS-BATSE DISTANCE = 208028176. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 90.24 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -2.96 SECS.
CROSSING TIME AT MARS IS 36890. S. OR 10:14:50 +/- 120.43 SECONDS

BATSE BURST TRIGGER

NO.: 3606

TIME: TJD=9866 SECONDS=36893

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=153.7 AZIMUTH=197.4 ERROR= DEGREES

COMMENTS:

BURST LASTING ~ 2.5S. VISIBLE ABOVE 300 KEV.

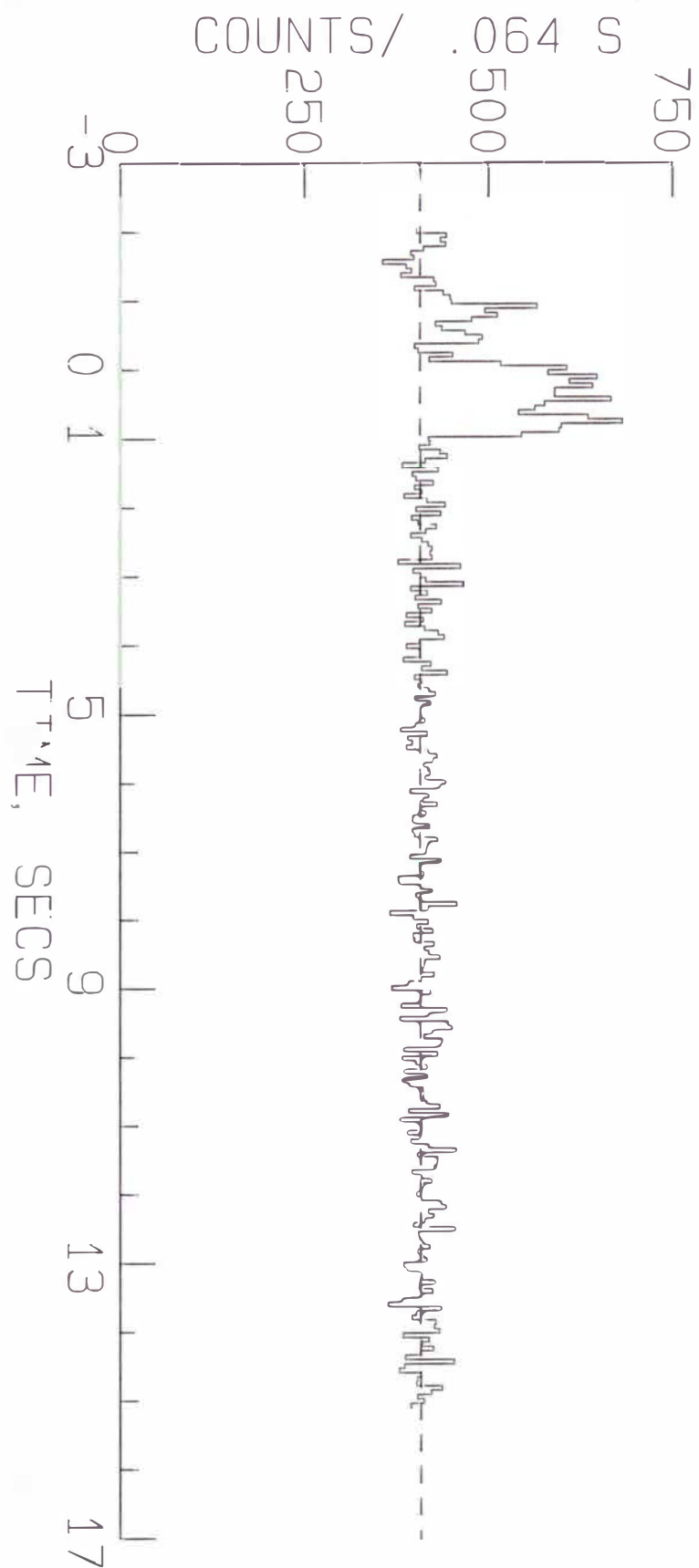
BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3606	950529	9866	36893	12000	239	-21	2.5

BATSE

29/05/95

36893.554

25- 100 keV



KONUS

29/05/95 36844.590

10- 50 keV

50- 200 keV

200- 750 keV

COUNTS/2.945 S

4400

DETECTOR 2 - N. ECLIPHTIC

3400

2400

1400

400

20

40

60

80

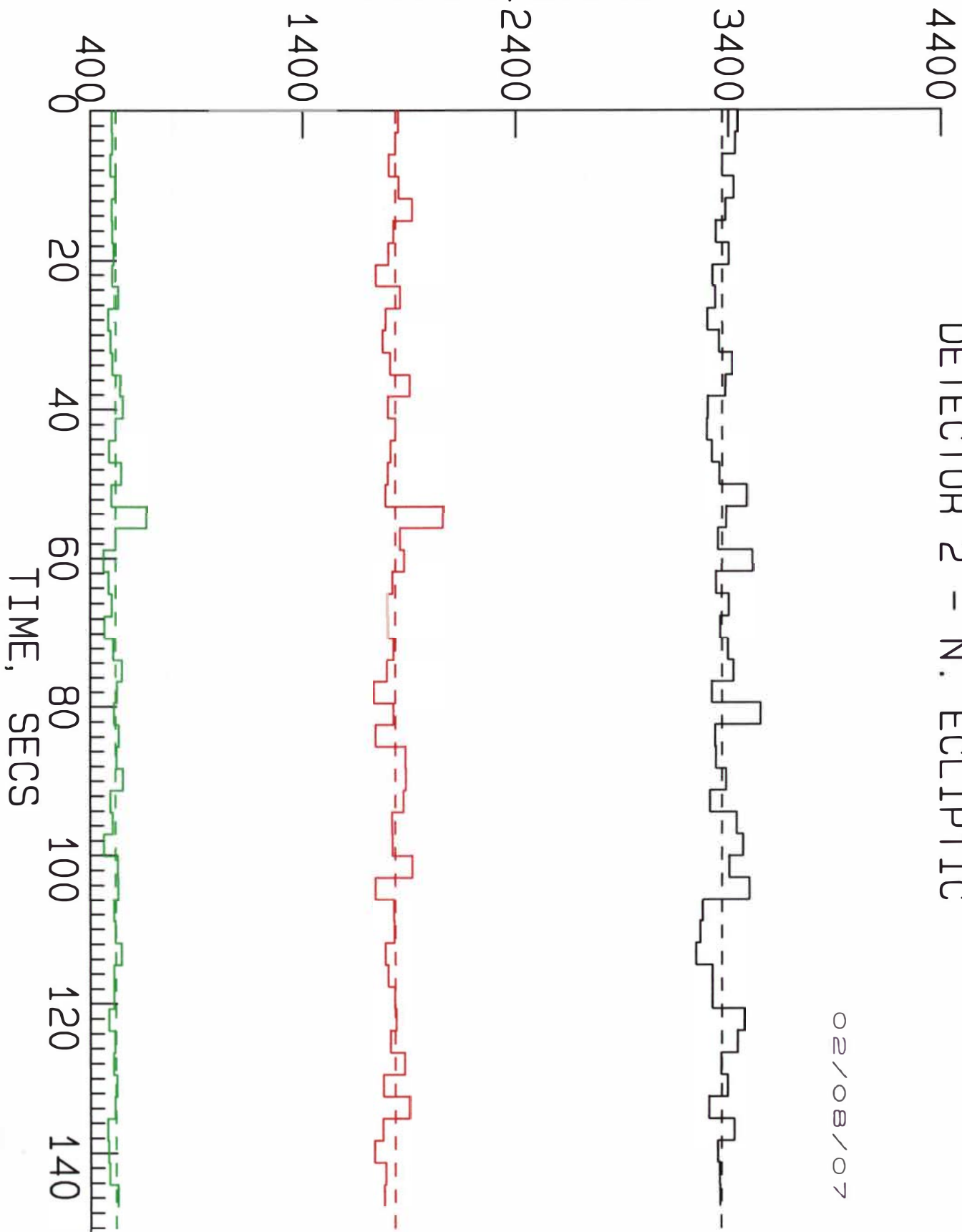
100

120

140

TIME, SECS

02/08/07



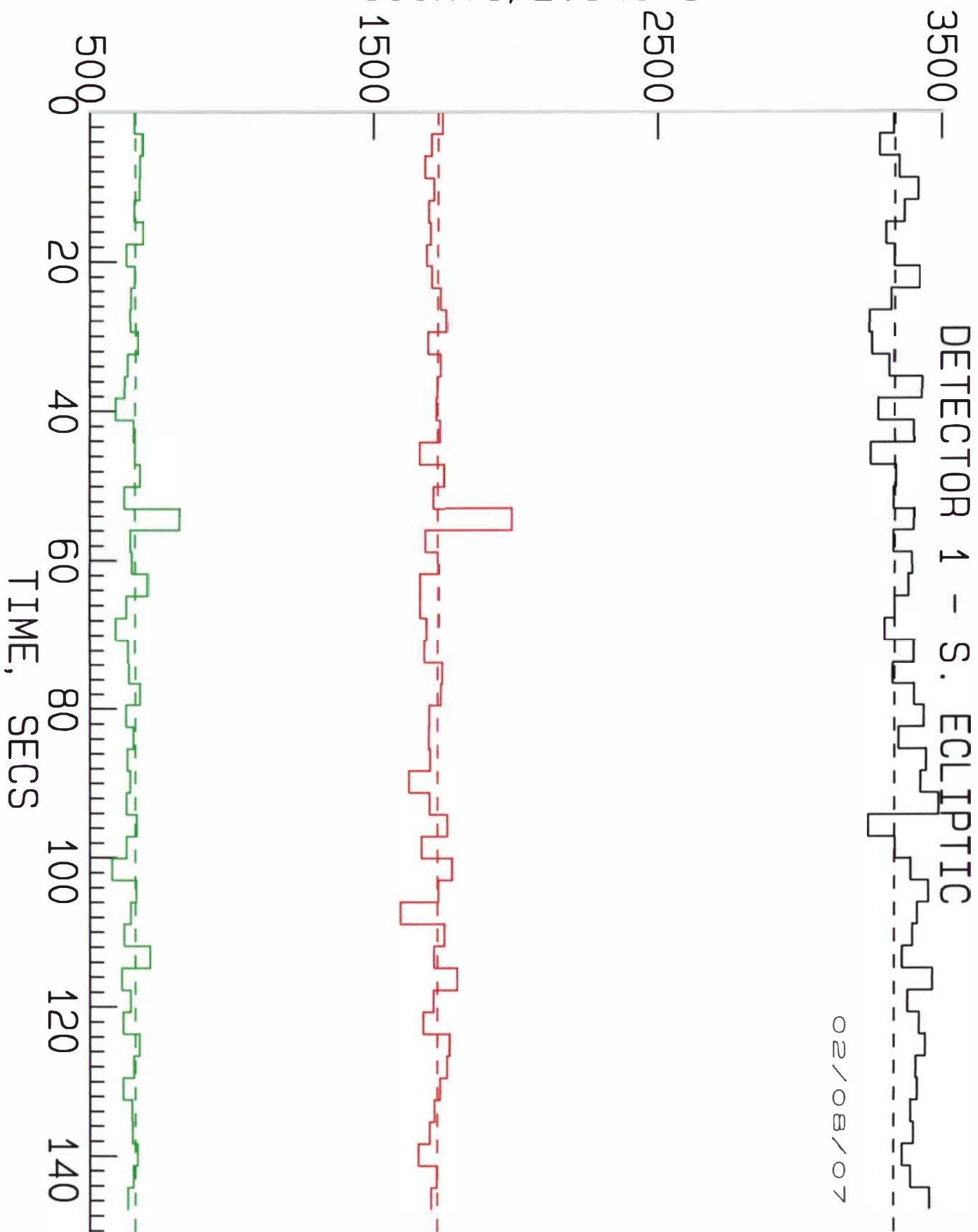
KONUS

29/05/95 36844.590

10- 50 keV

50- 200 keV 200- 750 keV

COUNTS/2.945 S



ULYSSES RT

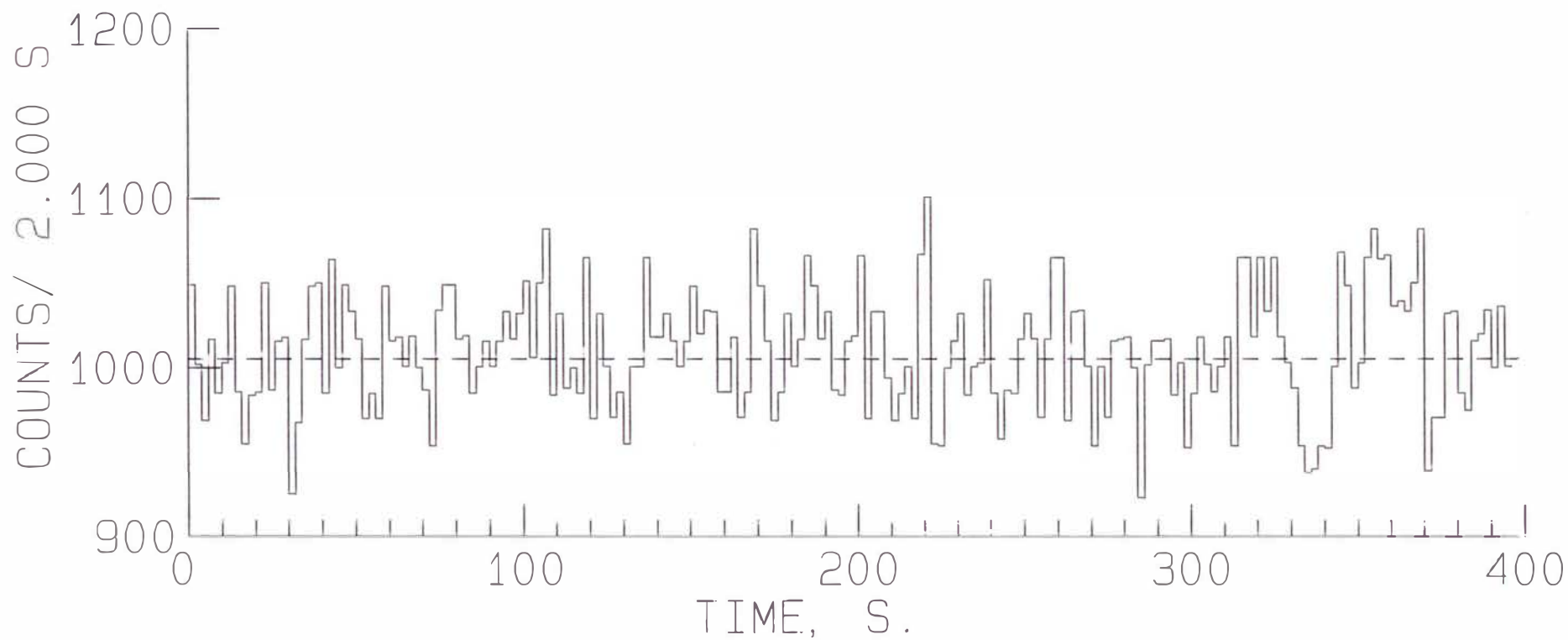
15 / 6 / 95

29 / 5 / 95 37368.086 s

.250 S INTERVALS REGROUPED BY 8

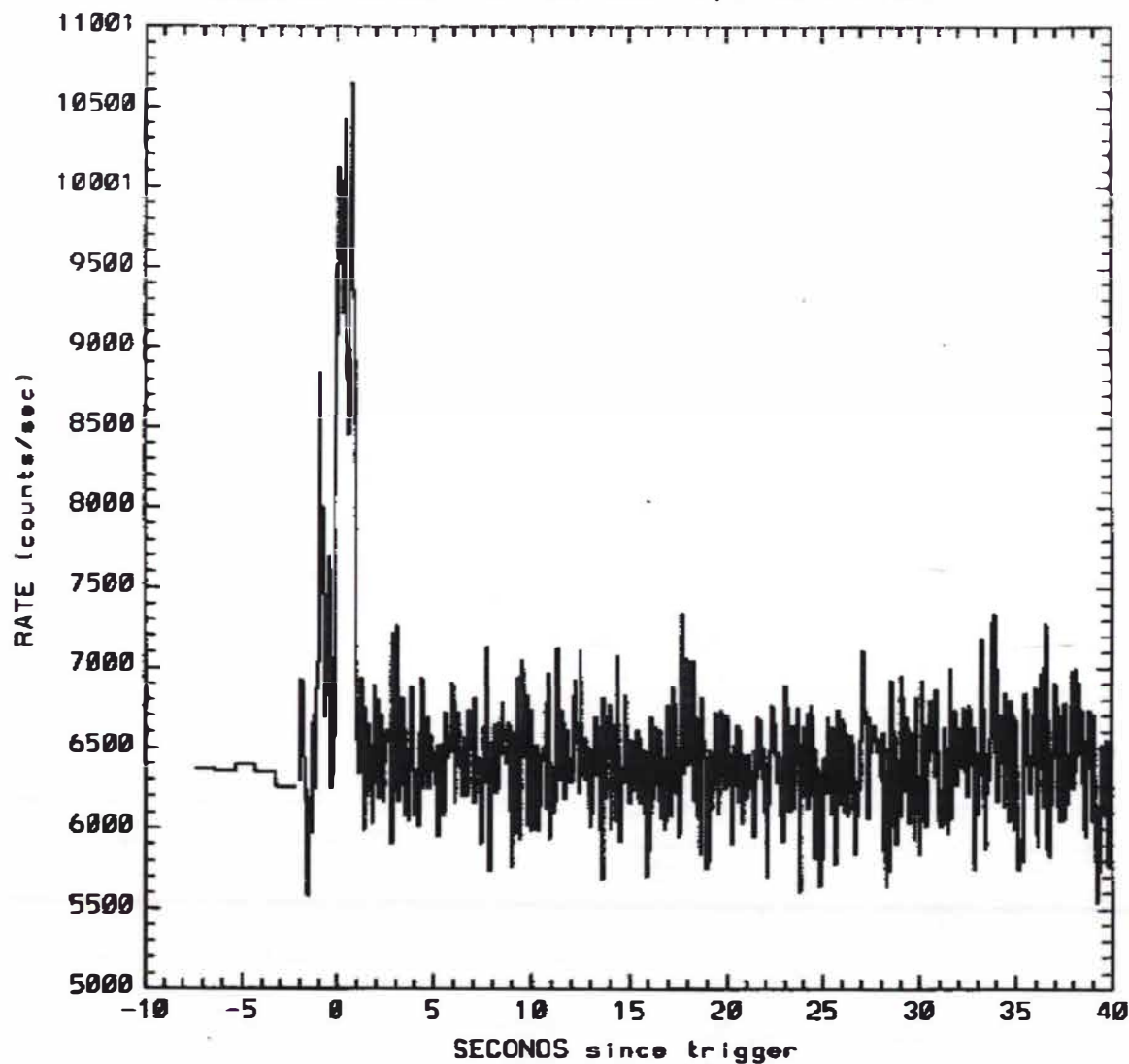
0 - 0 keV

N= 10 M= 2
>4.0 SIGMA FLUCTUATIONS



9505 29

DISCSC Data for K. Hurley. No. 3606

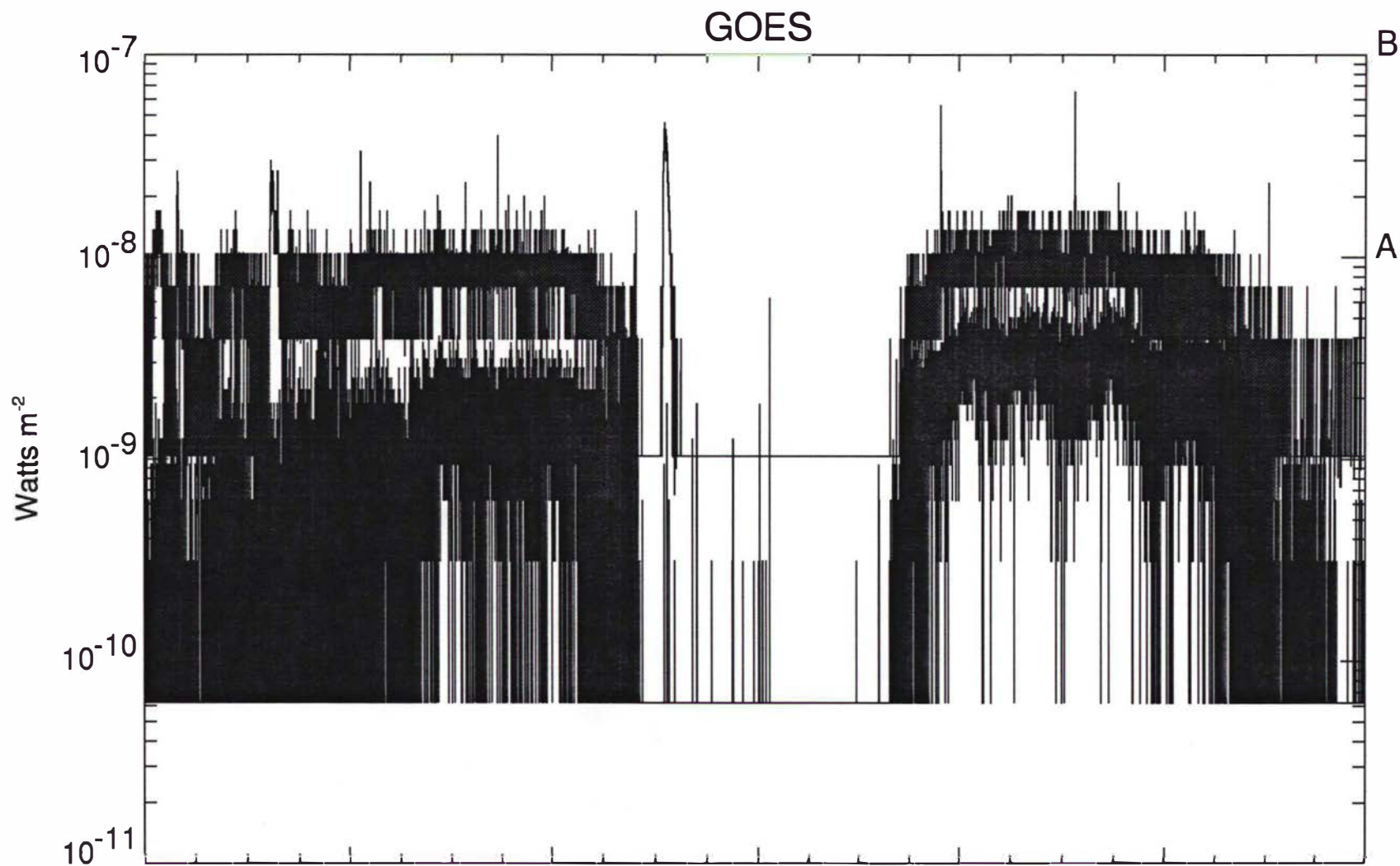


9-JUN-1995 08.44.13

Created by MOPS BD
IBurst Display
Version t2.25

Trigger # . 3606

Trigger Time:
9866 / 36893.554Burst Data Type:
DISCSCDeadtime
Corrected: N
Background Data
Type: PREB + DISCLA
Minimum Integ. Time:
0.864 second(s)Detectors [7..8].
7-5----Discriminators:
(1 , 2)Quality Mask:
B0ISP1



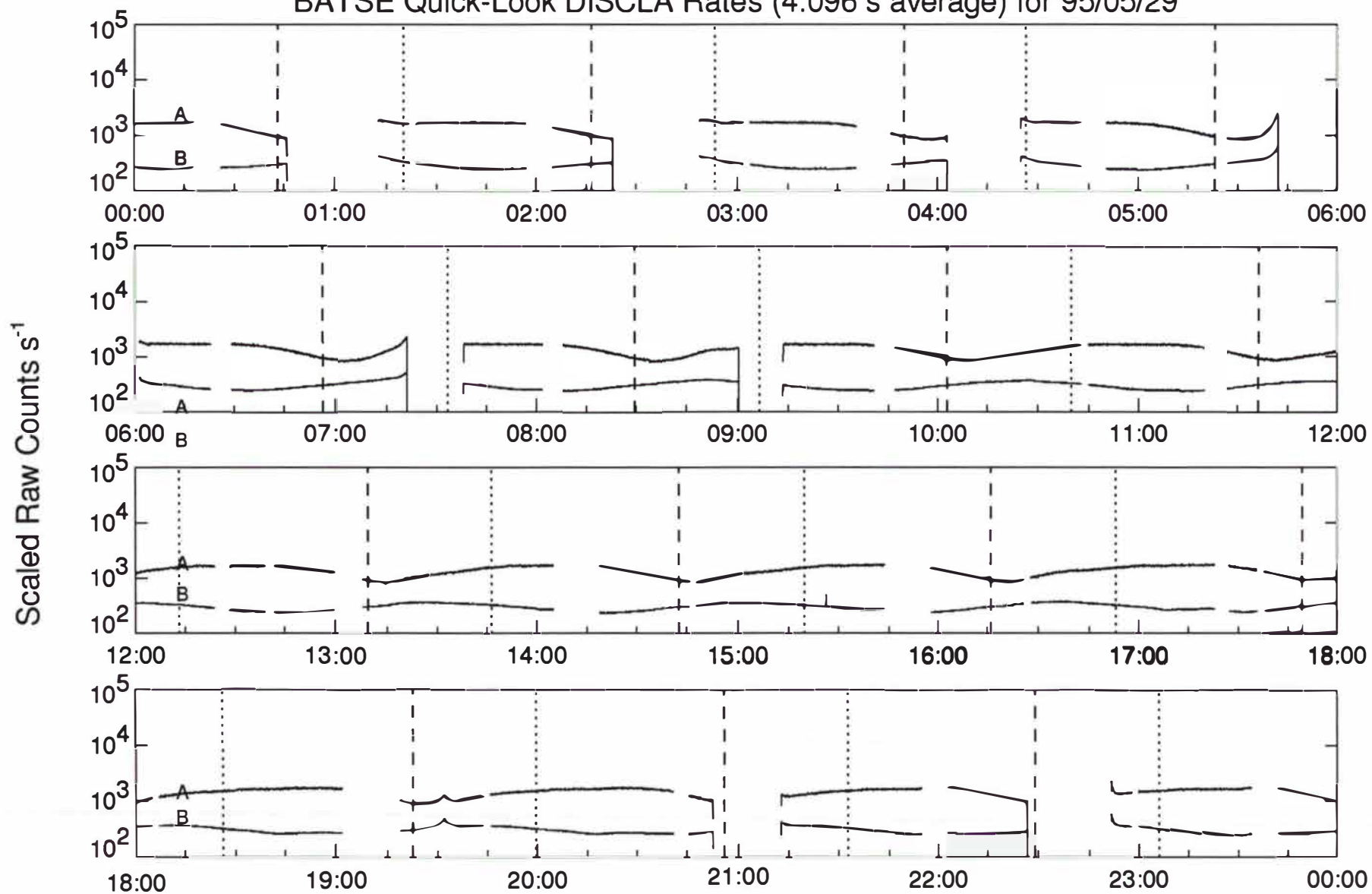
Data Start: 95/05/29, 0000:01

Plot created: 95/05/31, 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 95/05/29



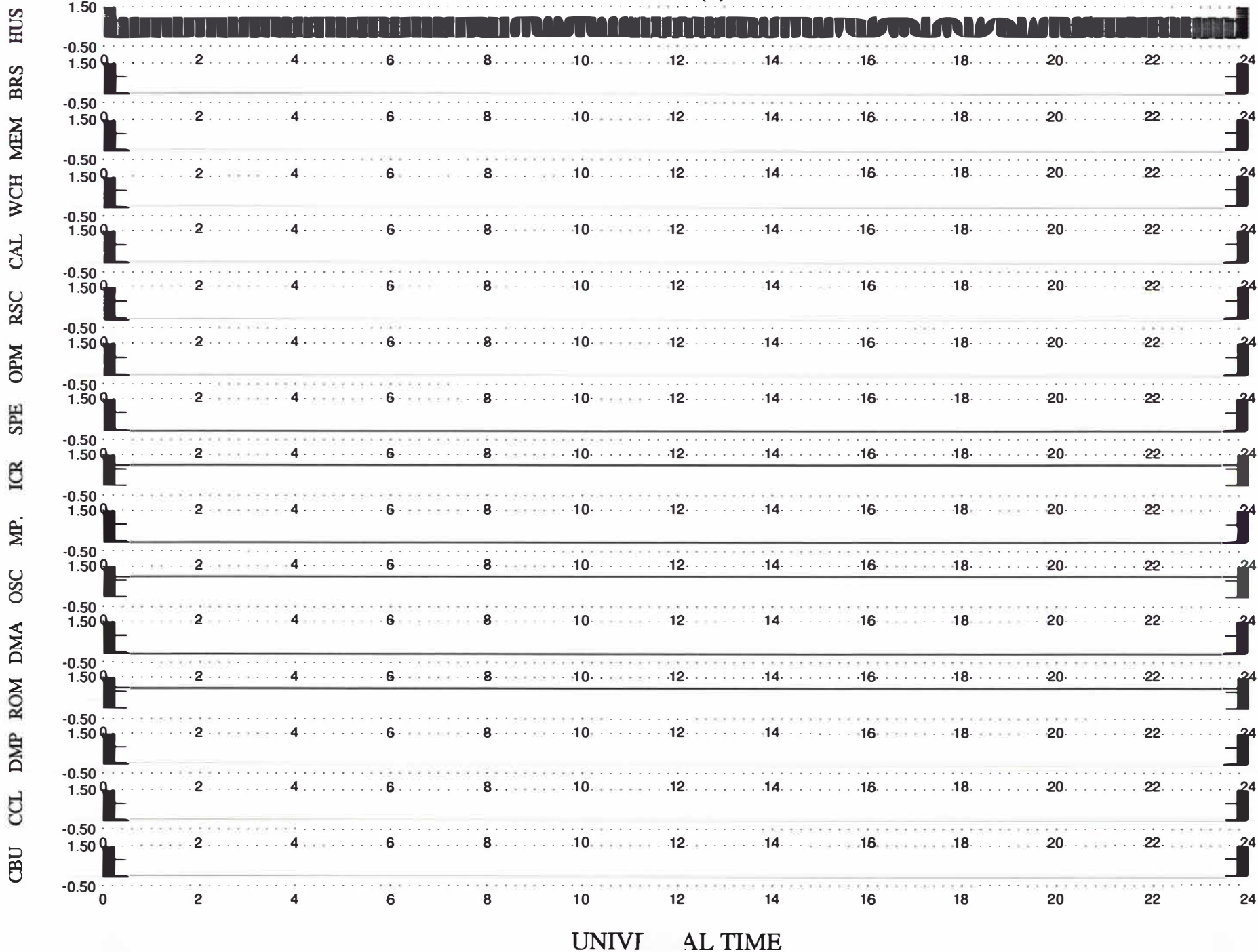
Current Time: 95/05/31, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

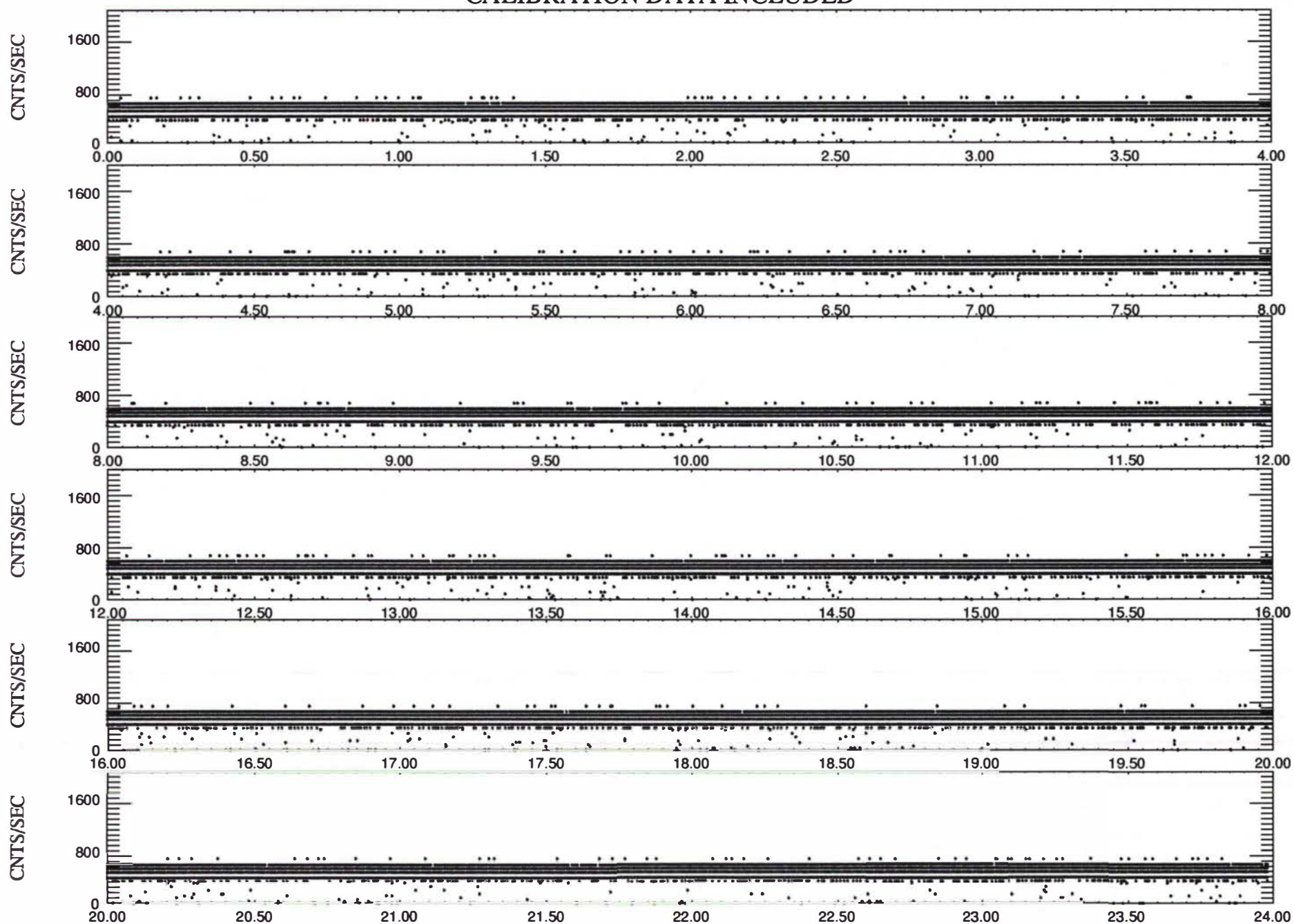
HUS MODES EDR day 149, year 1995 to day 149, year 1995
NO BURST (5)

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 149, year 1995 to day 149, year 1995
CALIBRATION DATA INCLUDED

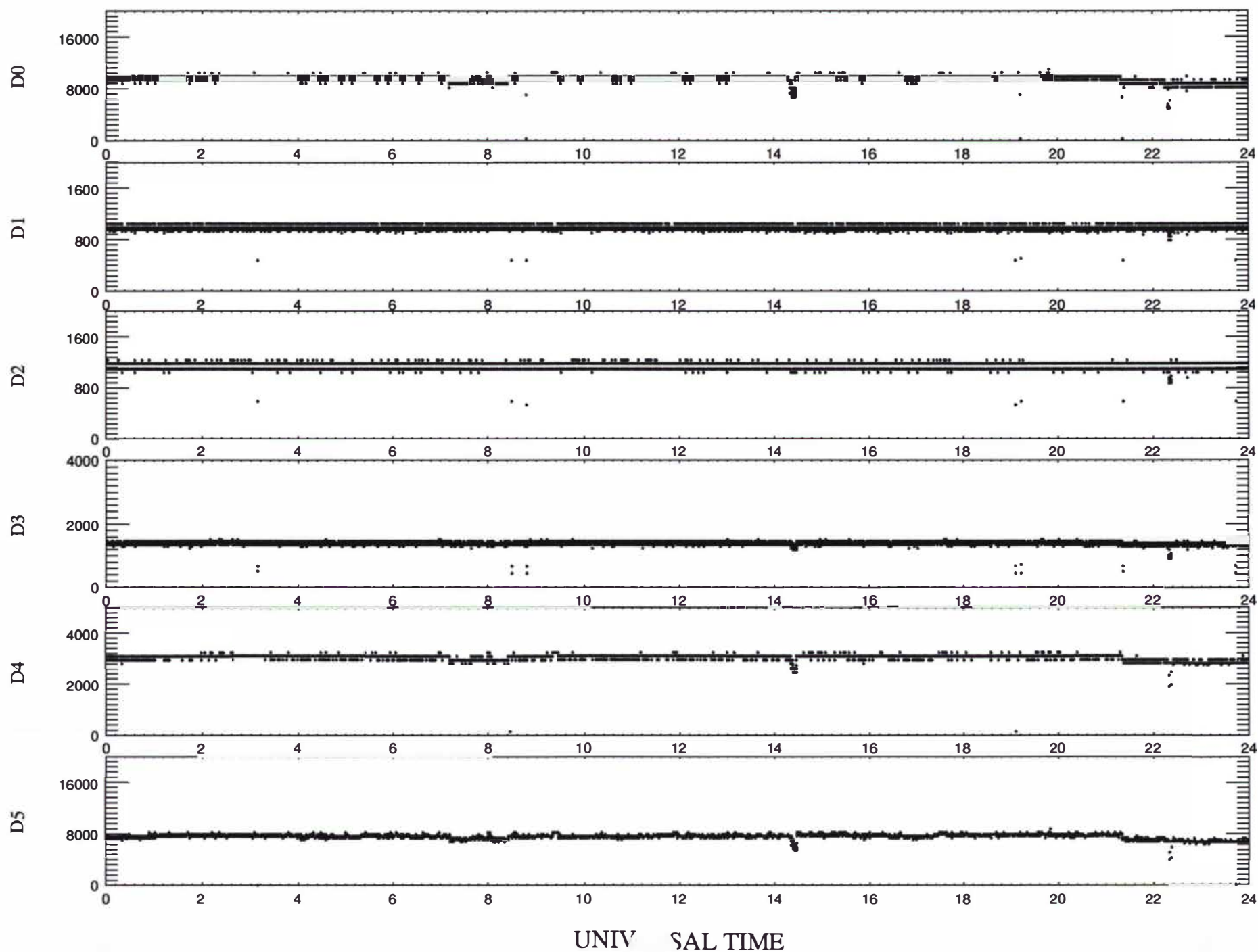
11/21/95



UNIV AL TIME

HUS 2B COUNTS / SEC QEDR day 149, year 1995 to day 149, year 1995

6/2/95



From ULSSCI@jplsp2.jpl.nasa.gov Thu Jun 1 16:14 PDT 1995
Date: Thu, 1 Jun 1995 16:13:47 -0700 (PDT)
From: ULSSCI@jplsp2.jpl.nasa.gov
To: KHURLEY@SUNSPOT.ssl.berkeley.edu
Cc: ULSSCI@jplsp2.jpl.nasa.gov
Subject: Datation Test

Please be advised that the datation test took place on day 150 with the first burst on command being sent at 00:45z and the last burst on at 09:05z. Ten of the eleven burst on events were successful with the exception of the event scheduled for 01:35z

Regards

B McMillan

From HAGEDON@fender.msfc.nasa.gov Wed May 31 11:59 PDT 1995
Date: Wed, 31 May 1995 13:59:16 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: burst@comptel.unh.edu, grobad@vmprofs.estec.esa.nl,
LHEAVXCLINE@fender.msfc.nasa.gov, LHEAVXBARTHELMY@fender.msfc.nasa.gov,
scott@xtelab.gsfc.nasa.gov, 15733SCHAEFER@fender.msfc.nasa.gov,
CASS09BAND@fender.msfc.nasa.gov, CASS09GRUBER@fender.msfc.nasa.gov,
CASS09MATTESON@fender.msfc.nasa.gov, PACIESAS@fender.msfc.nasa.gov,
HORACK@fender.msfc.nasa.gov, khurley@sunspot.ssl.berkeley.edu
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3607

TIME: TJD=9867 SECONDS=23794

TYPE: SAA SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY.

From HAGEDON@fender.msfc.nasa.gov Wed May 31 12:11 PDT 1995
Date: Wed, 31 May 1995 14:11:56 -0500 (CDT)
From: HAGEDON@fender.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3608

BATSEARCH PROGRAM

BATSE BURST # 3608
EVENT OF 1995 MAY 30 DAY OF YEAR=150
EVENT CROSSING TIME AT BATSE : 55014. S. OR 15:16:54.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 115.000 -22.000
BATSE PEAK COUNTING RATE: 7000 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 30/ 5/ 95 IS:
RA= 10.098 DEC= 48.347 DIST= 2.023 AU
BATSE-ULYSSES DISTANCE = 302590509. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 64.00 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 442.47 SECS.
CROSSING TIME AT ULYSSES IS 55456. S. OR 15:24:16 +/- 214.22 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 30/ 5/ 95 IS:
RA= 154.483 DEC= 12.056 DIST= 1.399 AU
MARS-BATSE DISTANCE = 209281472. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION=128.43 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -433.92 SECS.
CROSSING TIME AT MARS IS 54580. S. OR 15:09:40 +/- 88.35 SECONDS
Subject: Burst Trigger Message

BATSE BURST TRIGGER

NO.: 3608

TIME: TJD=9867 SECONDS=55014

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:N

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=43 AZIMUTH=201 ERROR= DEGREES

COMMENTS:

BURST. SINGLE PULSE WITH TWO PEAKS AND SLOW DECAY. DUR.~20 SEC.
SECOND PEAK IS SOFTER. FIRST PEAK VISIBLE ABOVE 300 KEV.

Subject: BATSE Burst 3608

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3608	950530	9867	55014	7000	115	-22	20

2 / 6 / 95

ULYSSES RT

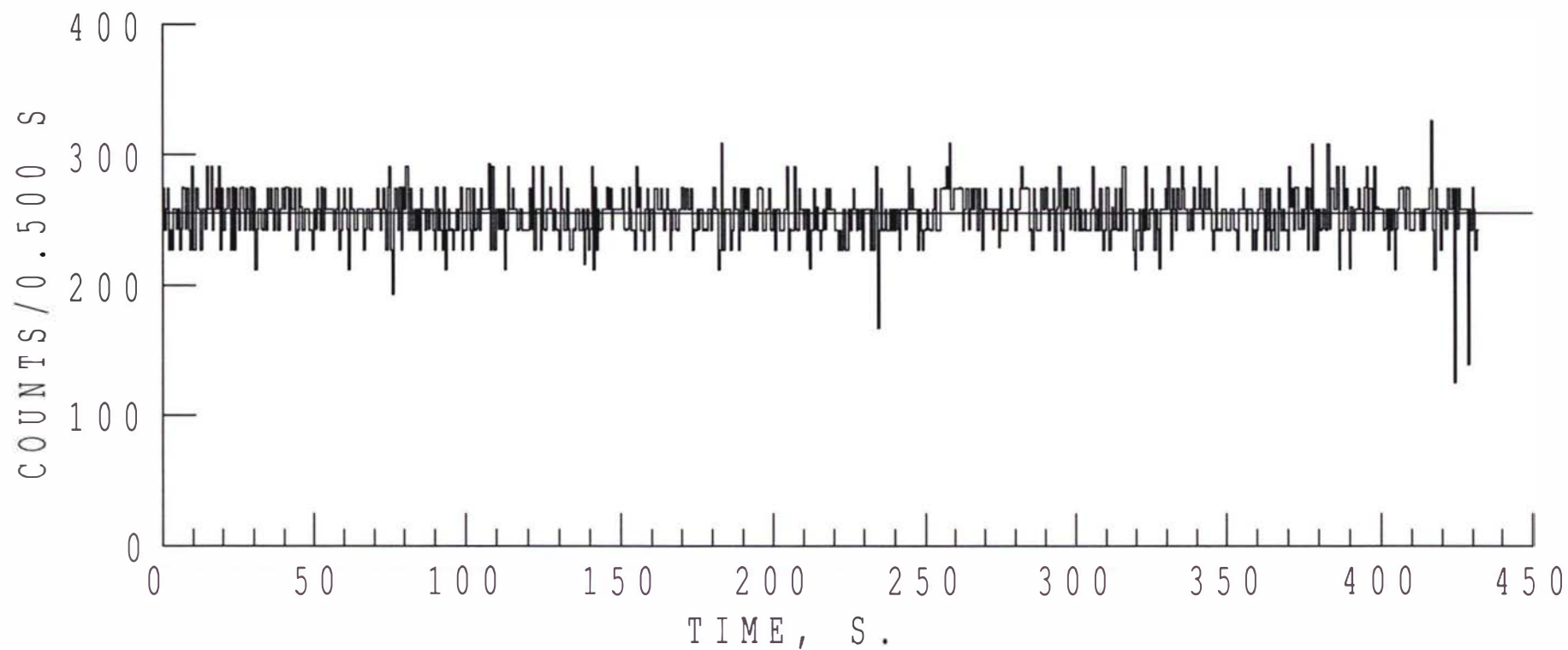
30 / 5 / 95 55224.113 s

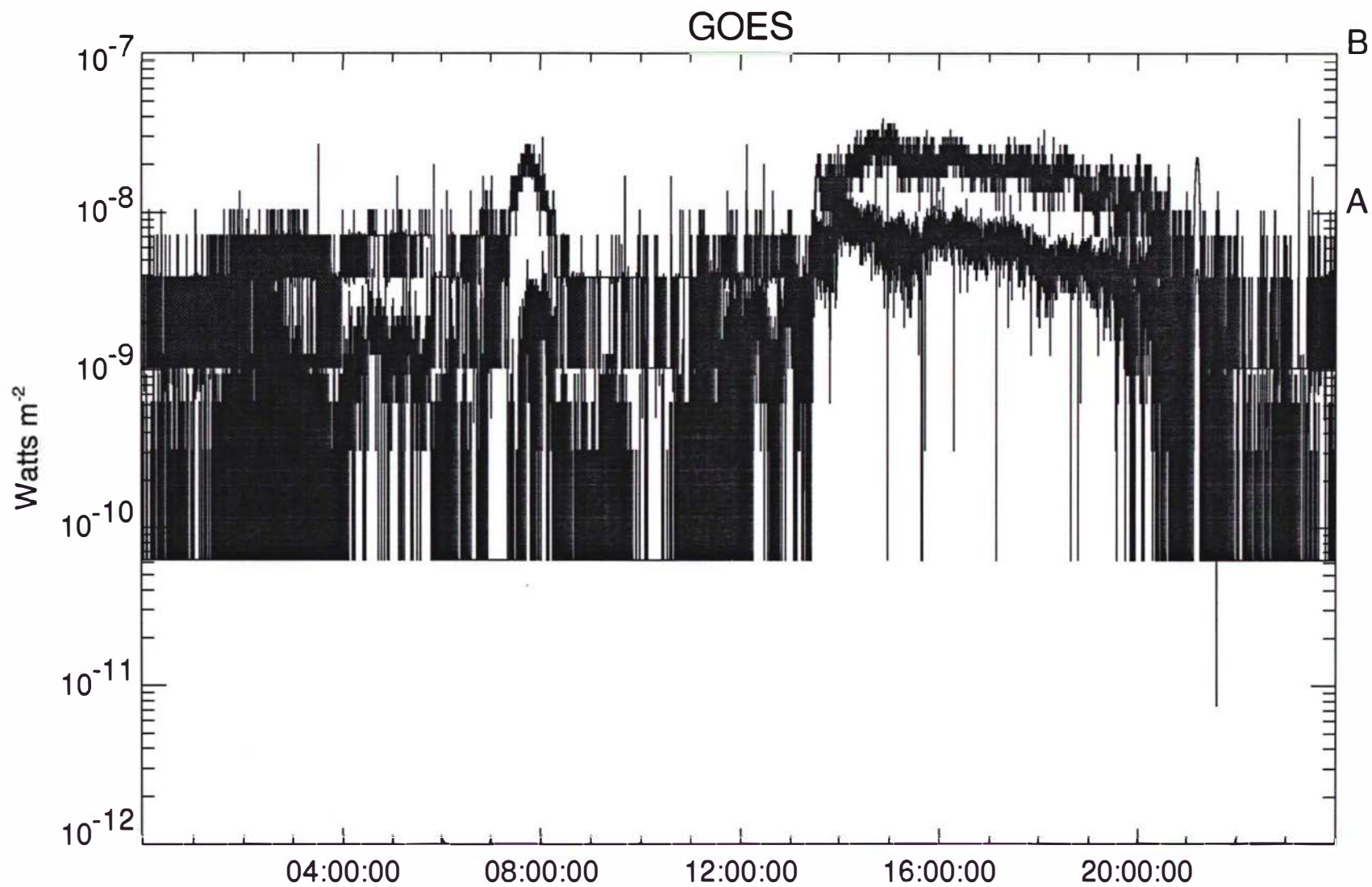
0.250 S INTERVALS REGROUPED BY 2

0 - 0 keV

B= 10 M= 2

>4.0 SIGMA FLUCTUATIONS





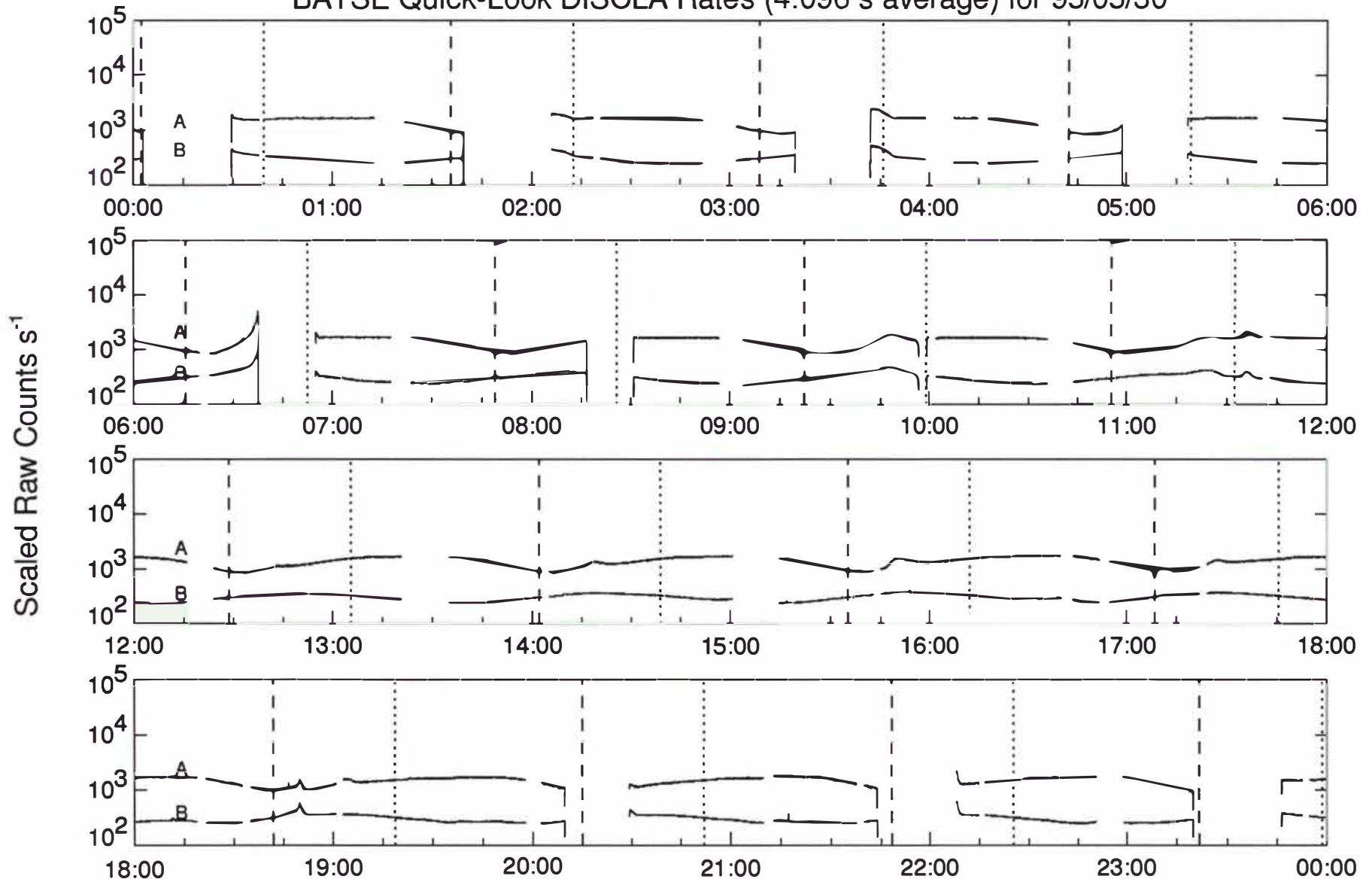
Data Start: 95/05/30, 0000:02

Plot created: 95/06/01, 1520

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 95/05/30



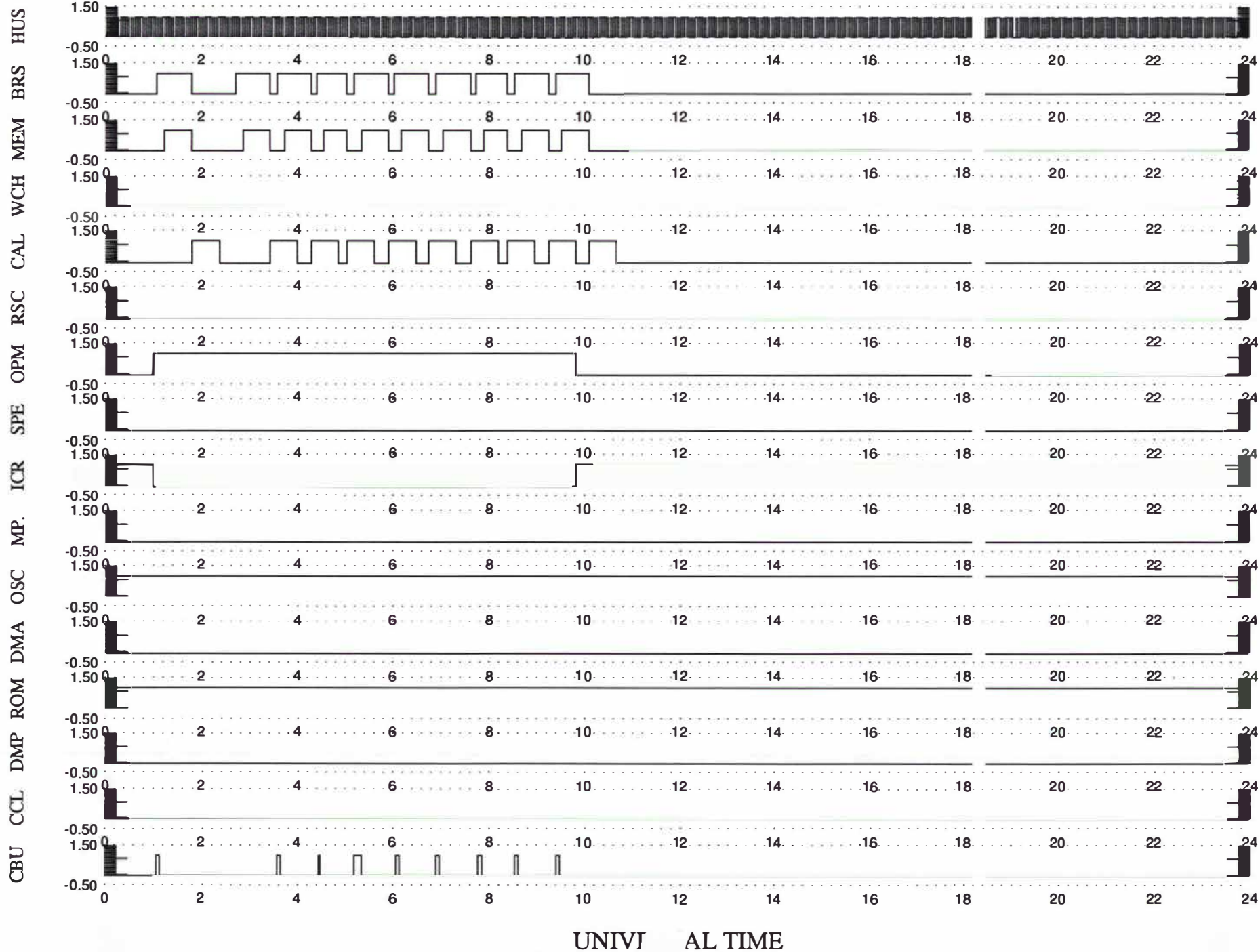
Current Time: 95/06/01, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare

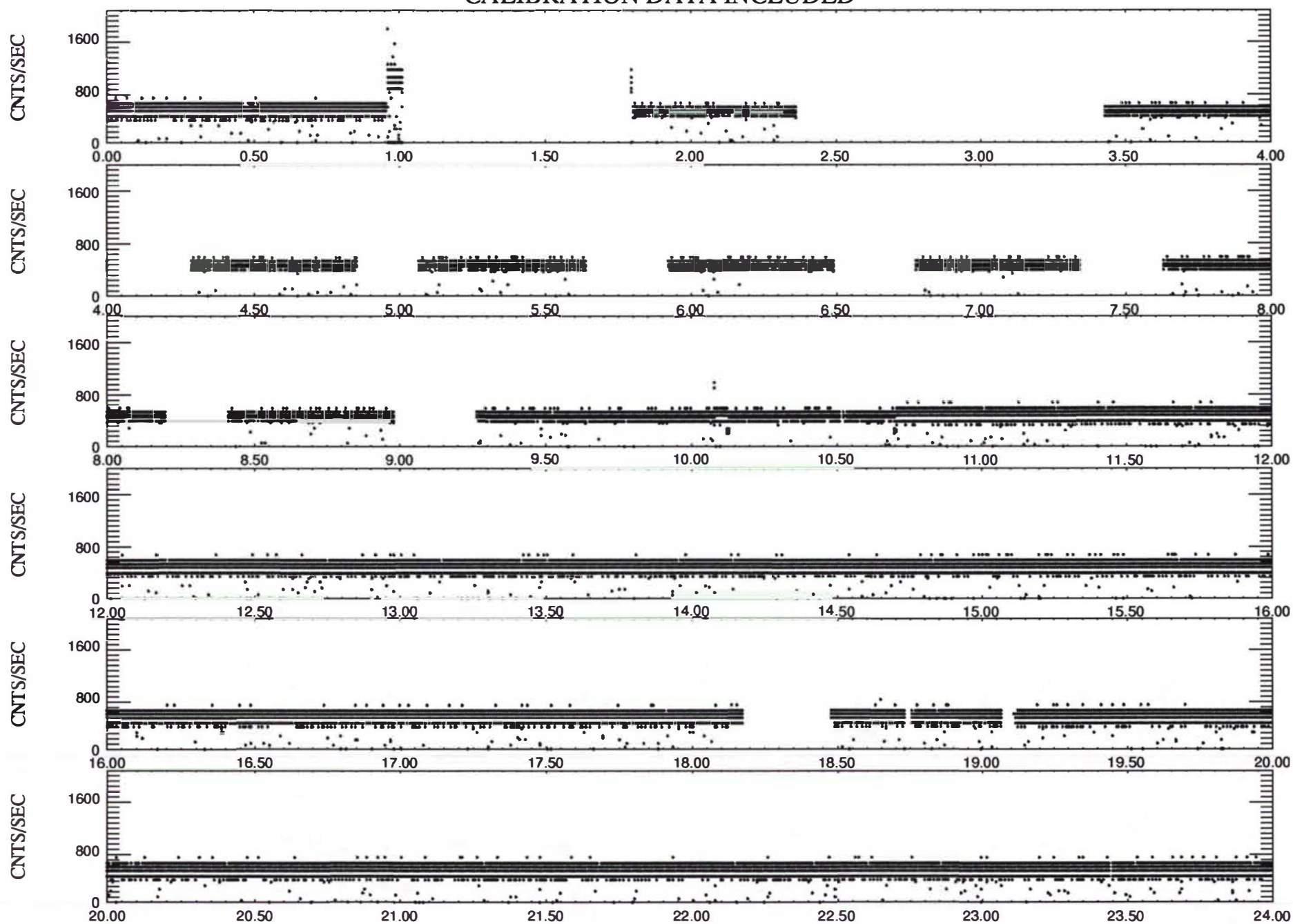
HUS MODES EDR day 150, year 1995 to day 150, year 1995
BURST NUMBER 6 - 15

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 150, year 1995 to day 150, year 1995
CALIBRATION DATA INCLUDED

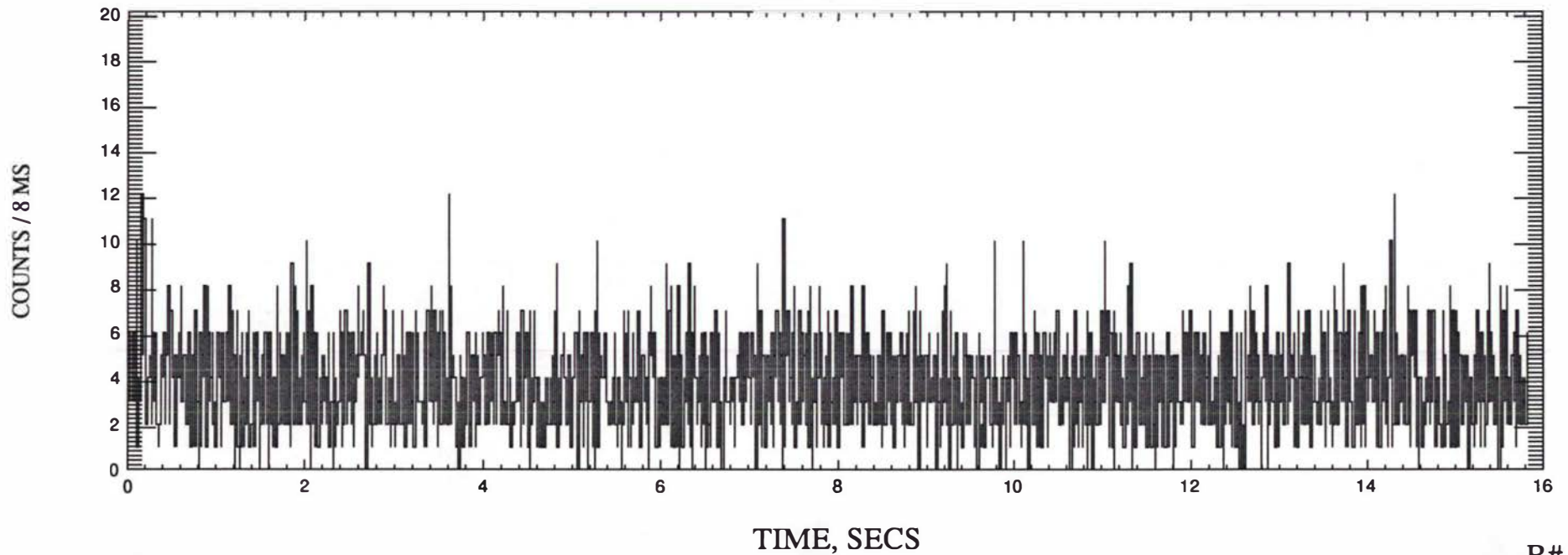
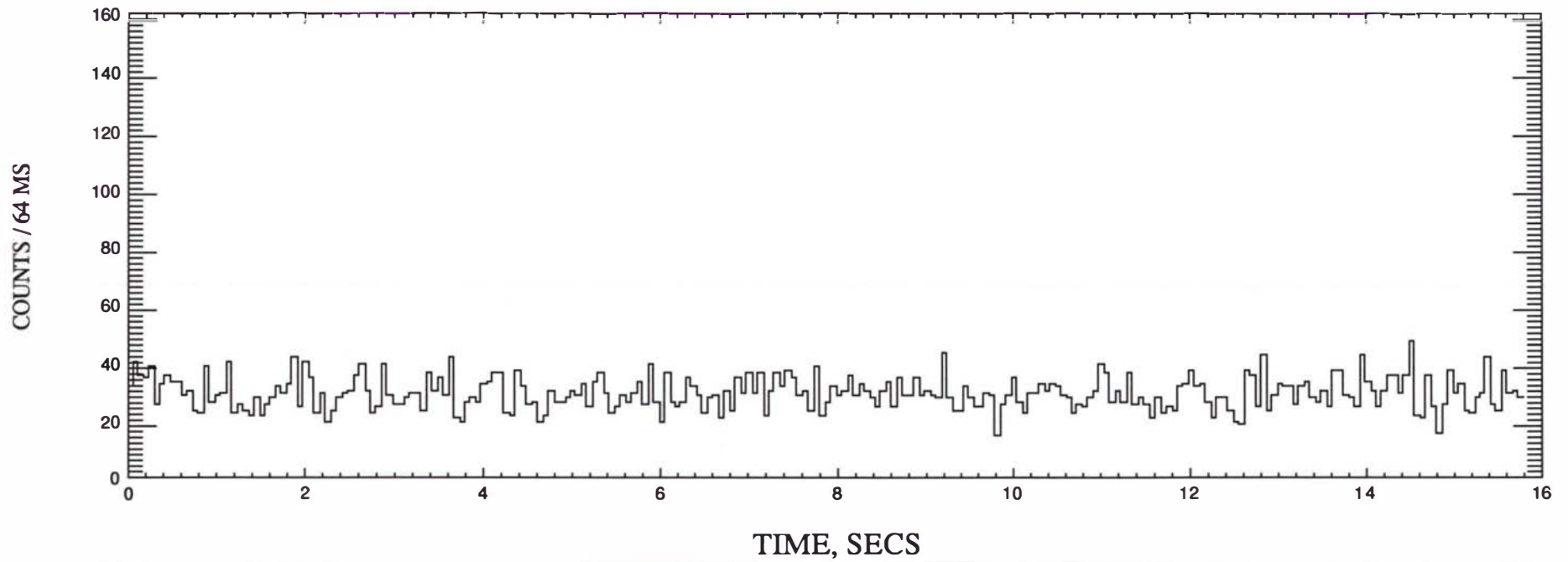
11/21/95



UNIVERSAL TIME

HUS 2A TRIGGERED DATA EDR day 150, year 1995
Burst Counter 6 at UT= 1.034796172248 h= 3725.266 s 01:02:05.266

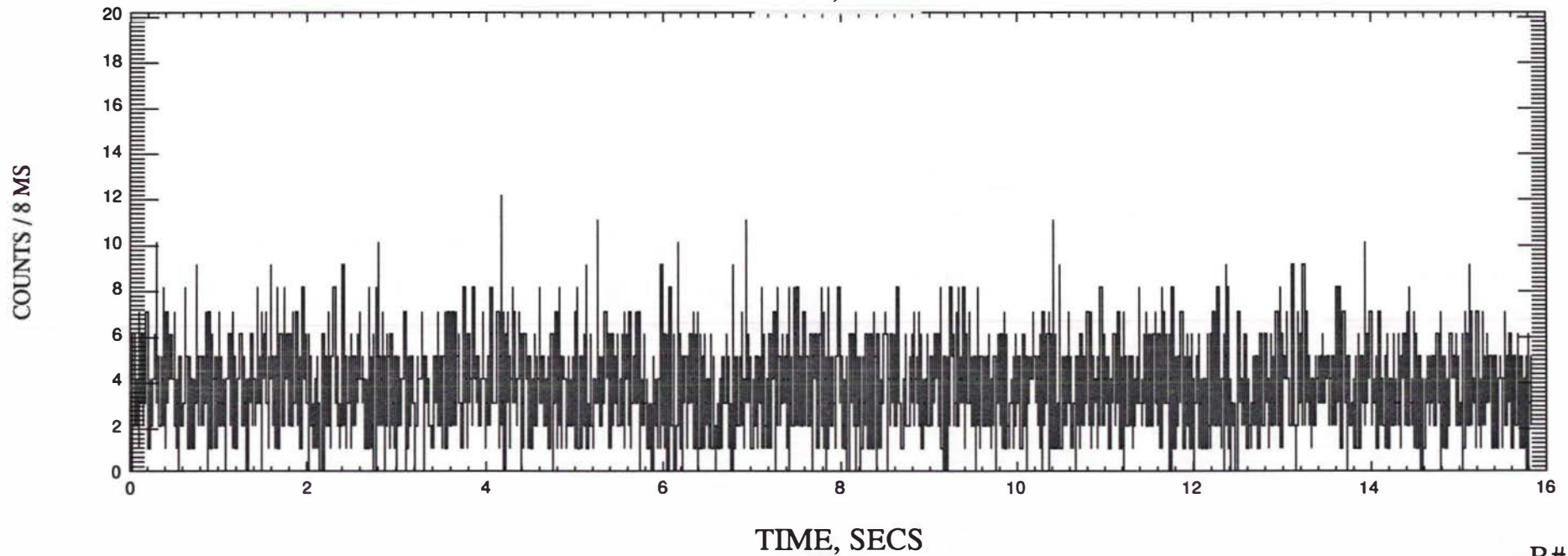
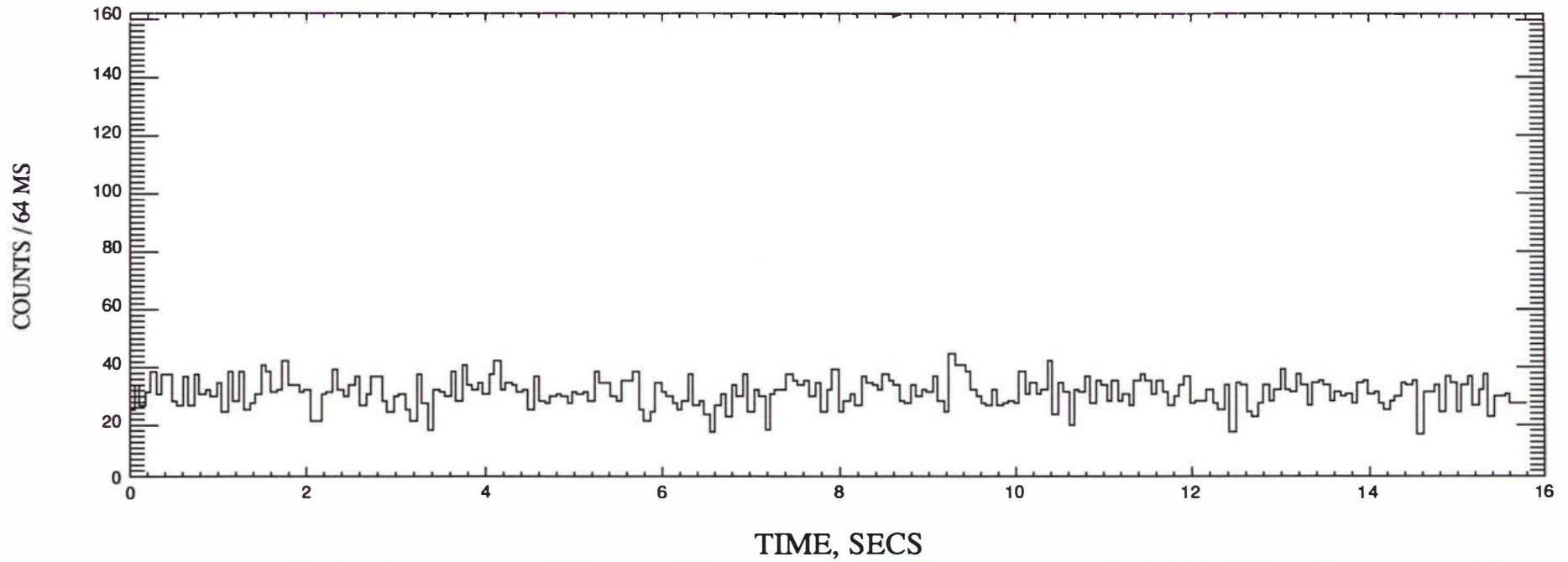
11/21/95



B# 1

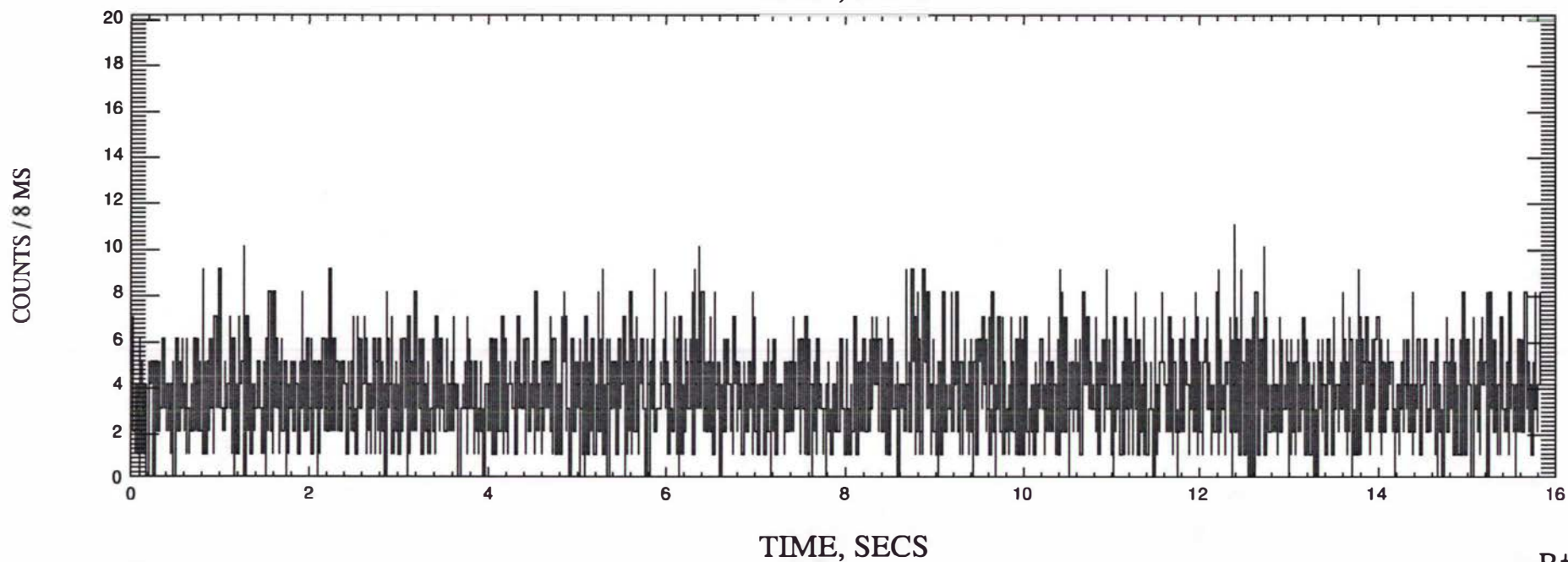
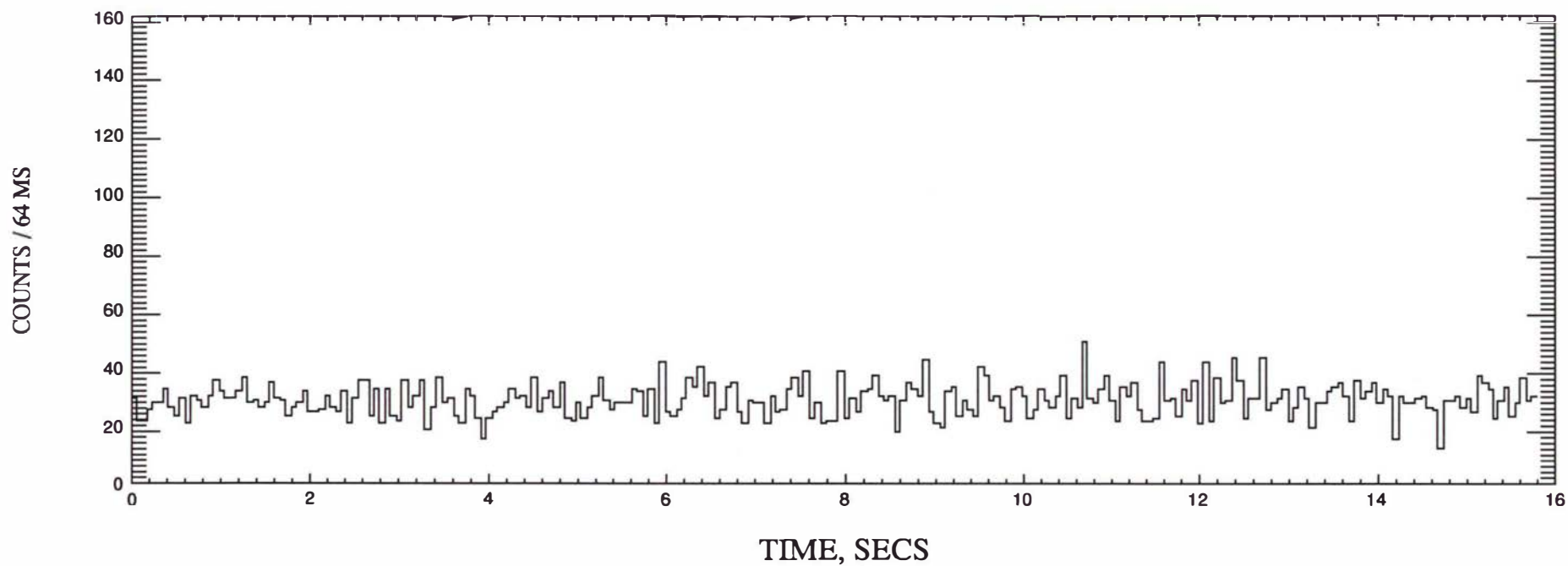
HUS 2A TRIGGERED DATA EDR day 150, year 1995
Burst Counter 7 at UT= 2.701459927029 h= 9725.256 s 02:42:05.256

11/21/95



HUS 2A TRIGGERED DATA EDR day 150, year 1995
Burst Counter 8 at UT= 3.534775136312 h=12725.190 s 03:32:05.190

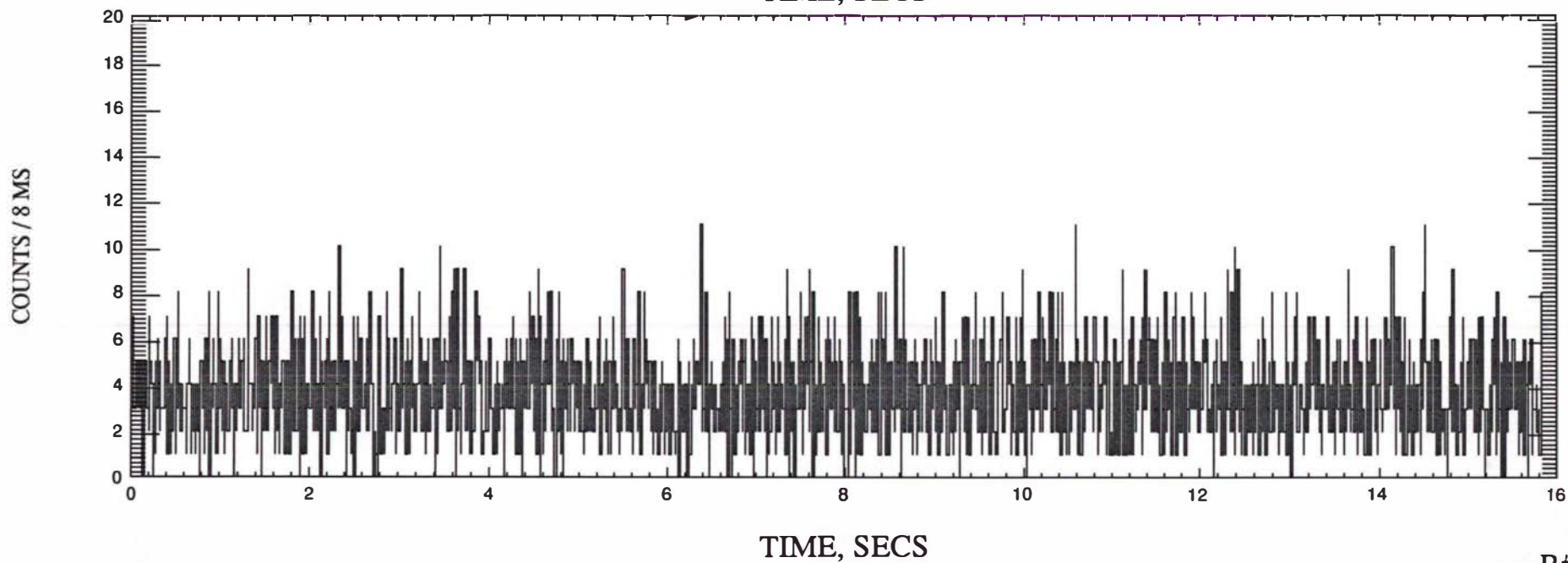
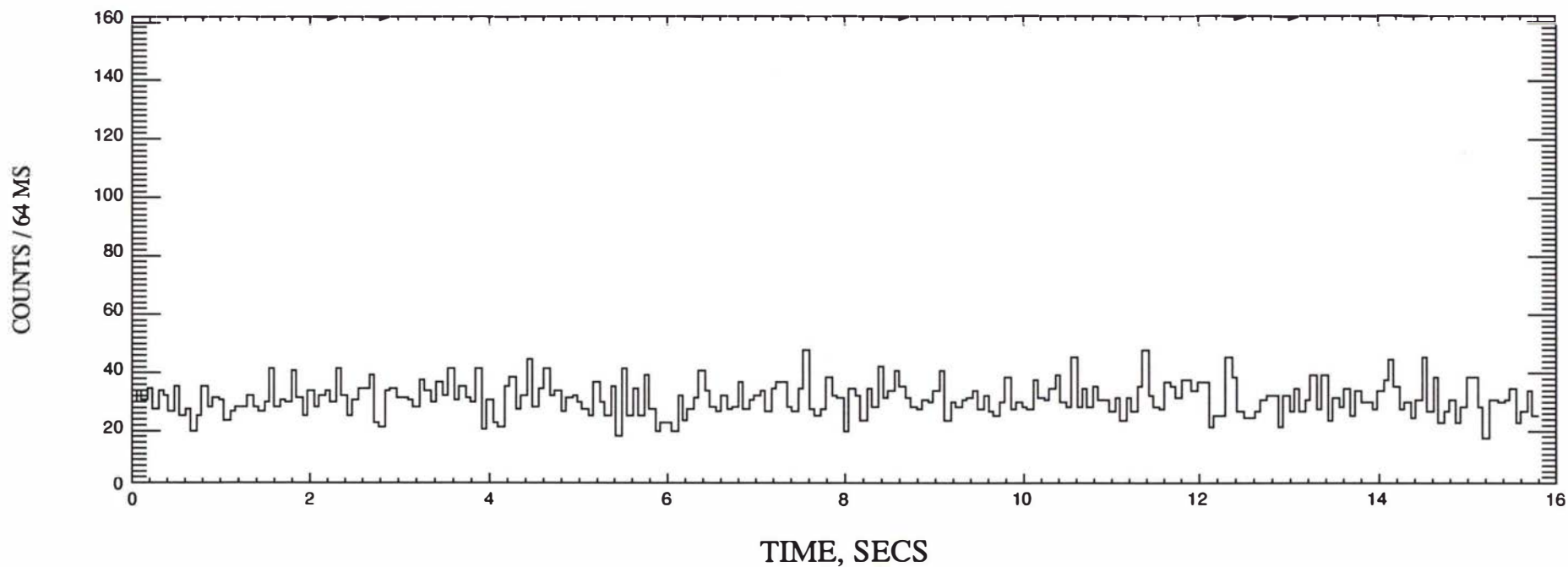
11/21/95



B# 3

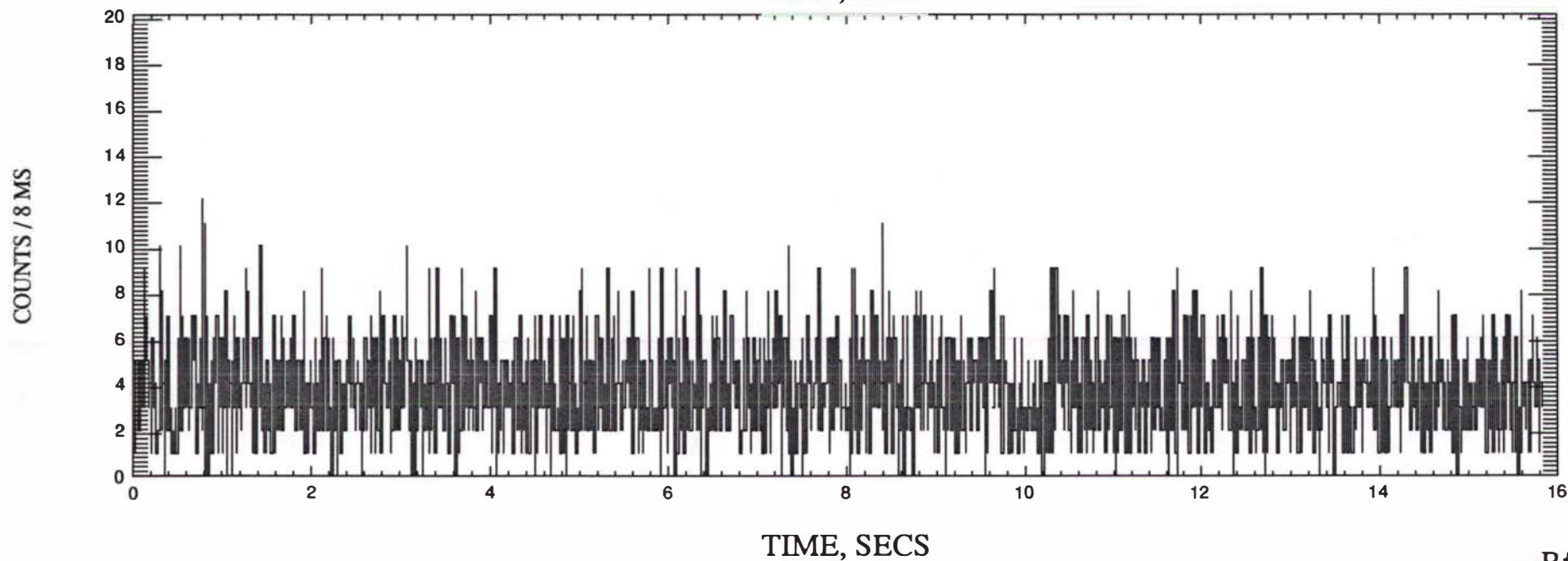
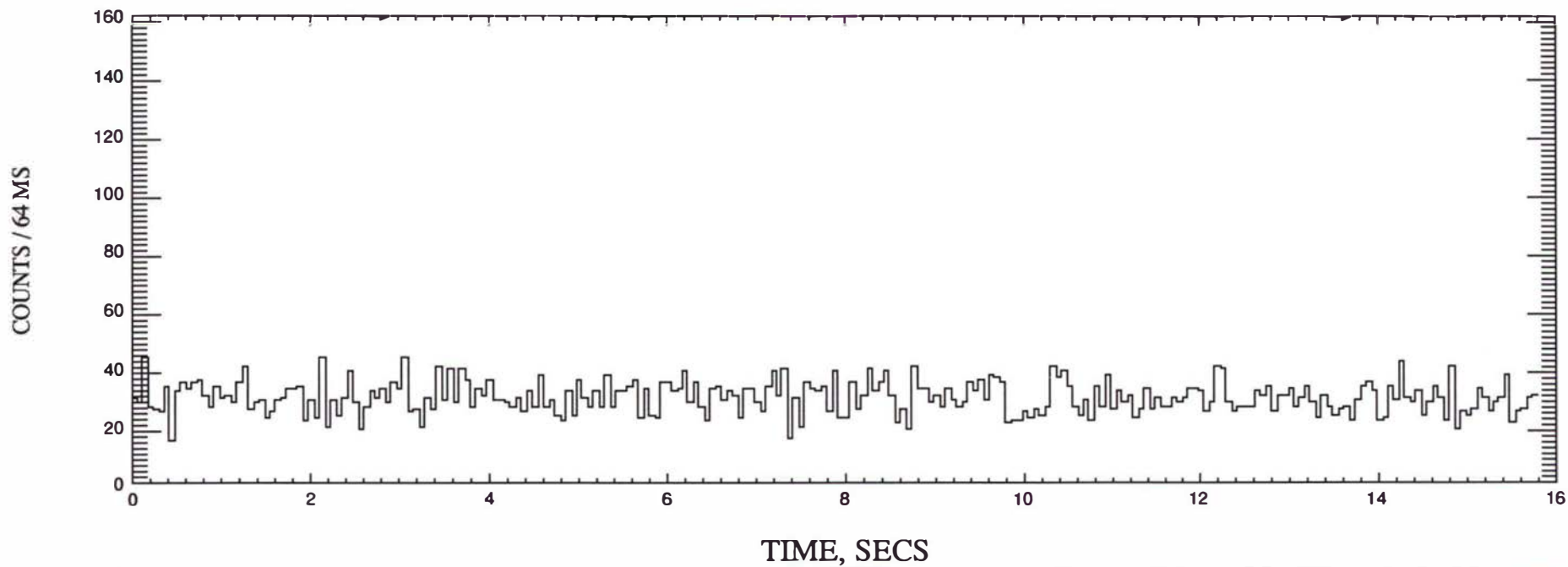
HUS 2A TRIGGERED DATA EDR day 150, year 1995
Burst Counter 9 at UT= 4.368090345595 h=15725.125 s 04:22:05.125

11/21/95



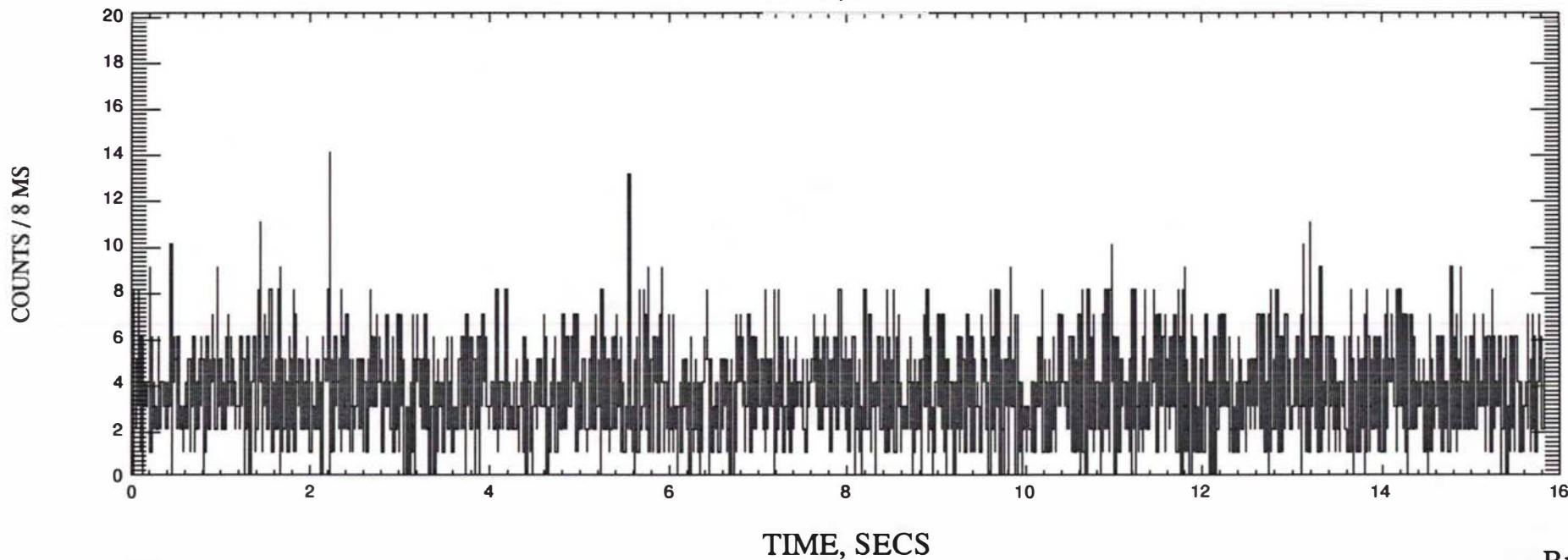
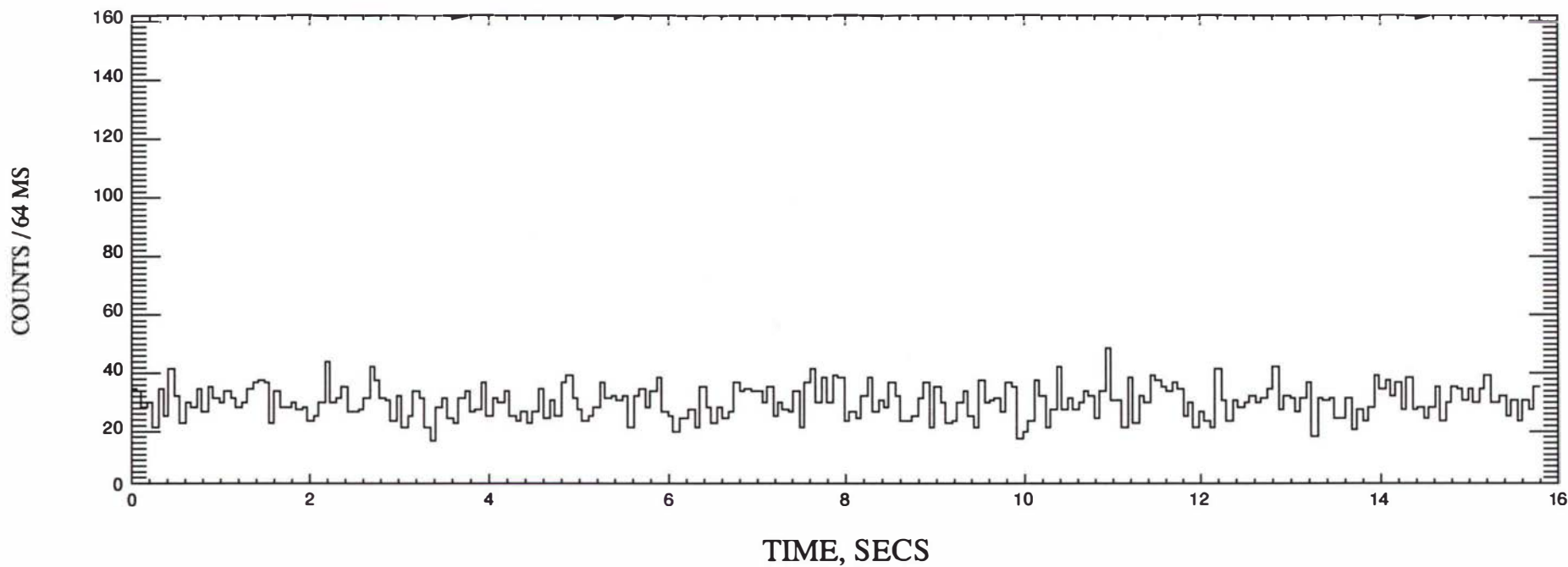
HUS 2A TRIGGERED DATA EDR day 150, year 1995
Burst Counter 10 at UT= 5.201438891093 h=18725.180 s 05:12:05.180

11/21/95



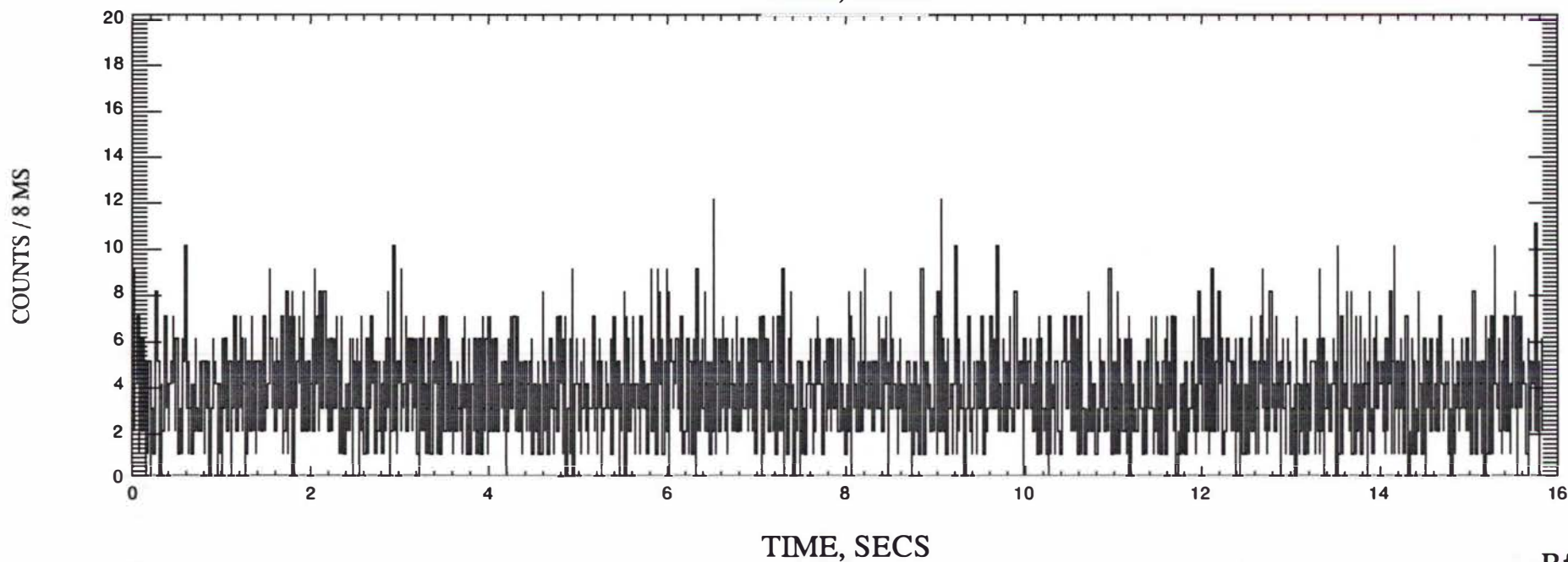
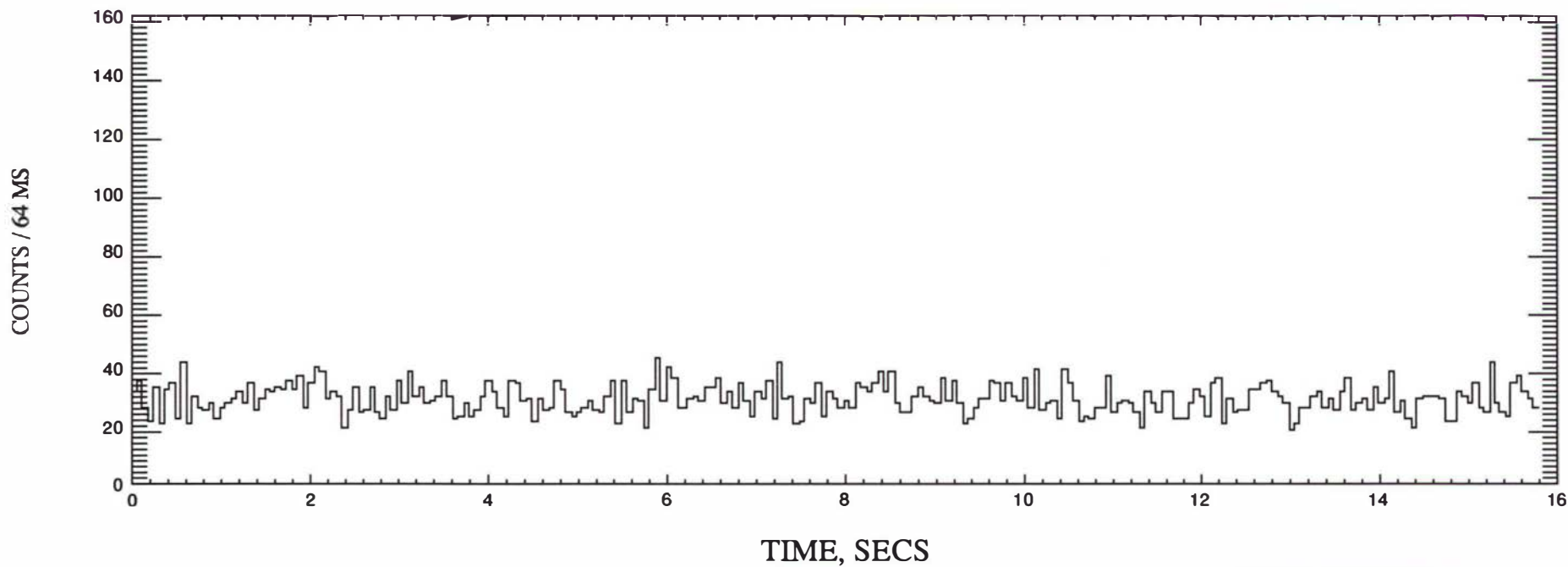
HUS 2A TRIGGERED DATA EDR day 150, year 1995
Burst Counter 11 at UT= 6.034719378153 h=21724.990 s 06:02:04.990

11/21/95



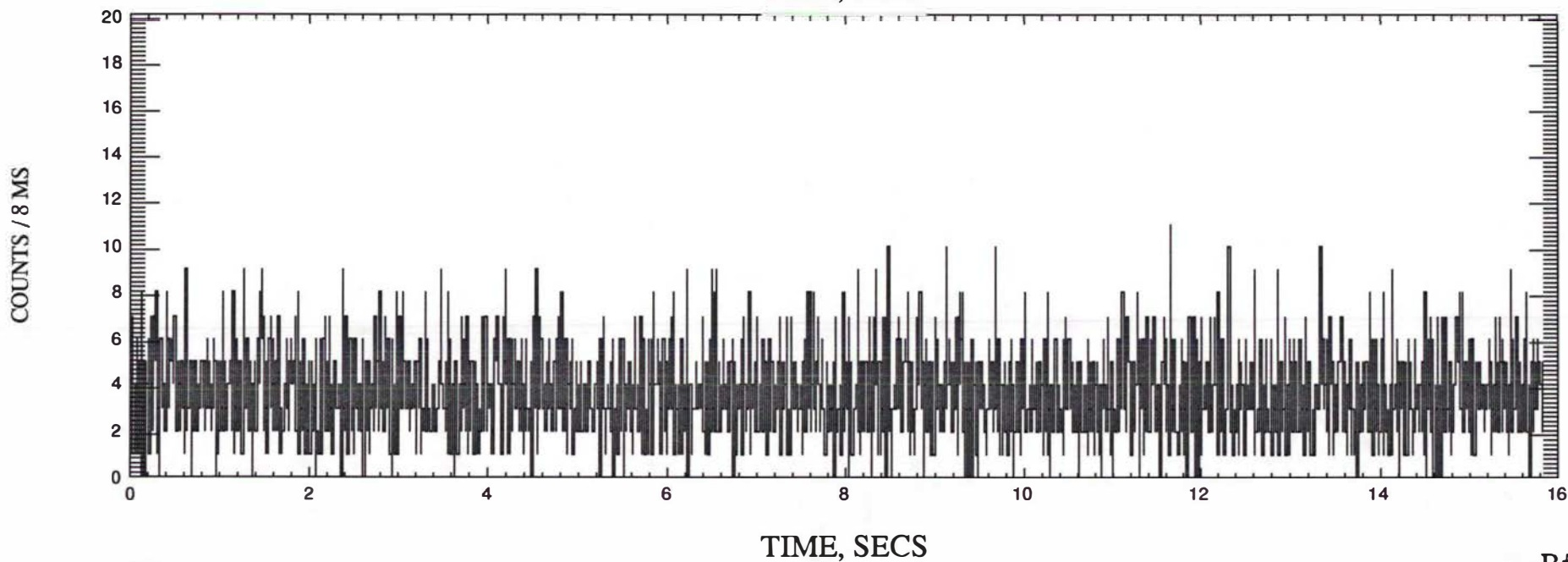
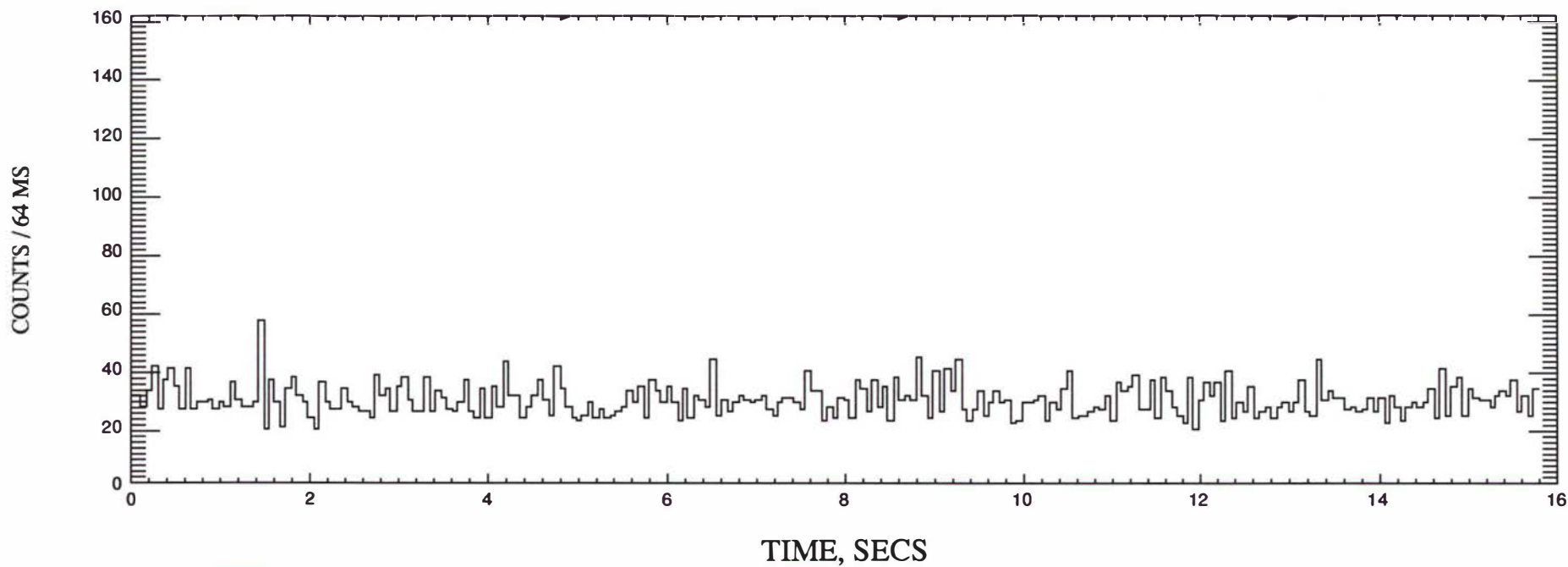
HUS 2A TRIGGERED DATA EDR day 150, year 1995
Burst Counter 12 at UT= 6.868069309658 h=24725.050 s 06:52:05.050

11/21/95



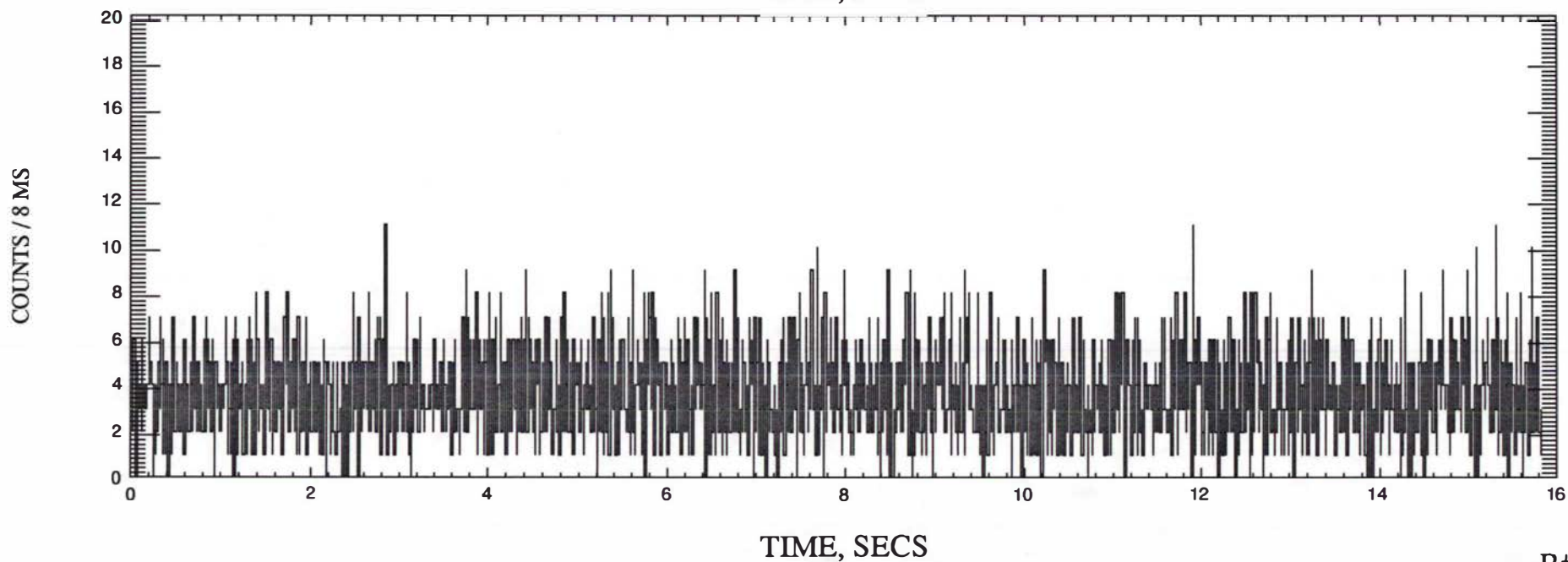
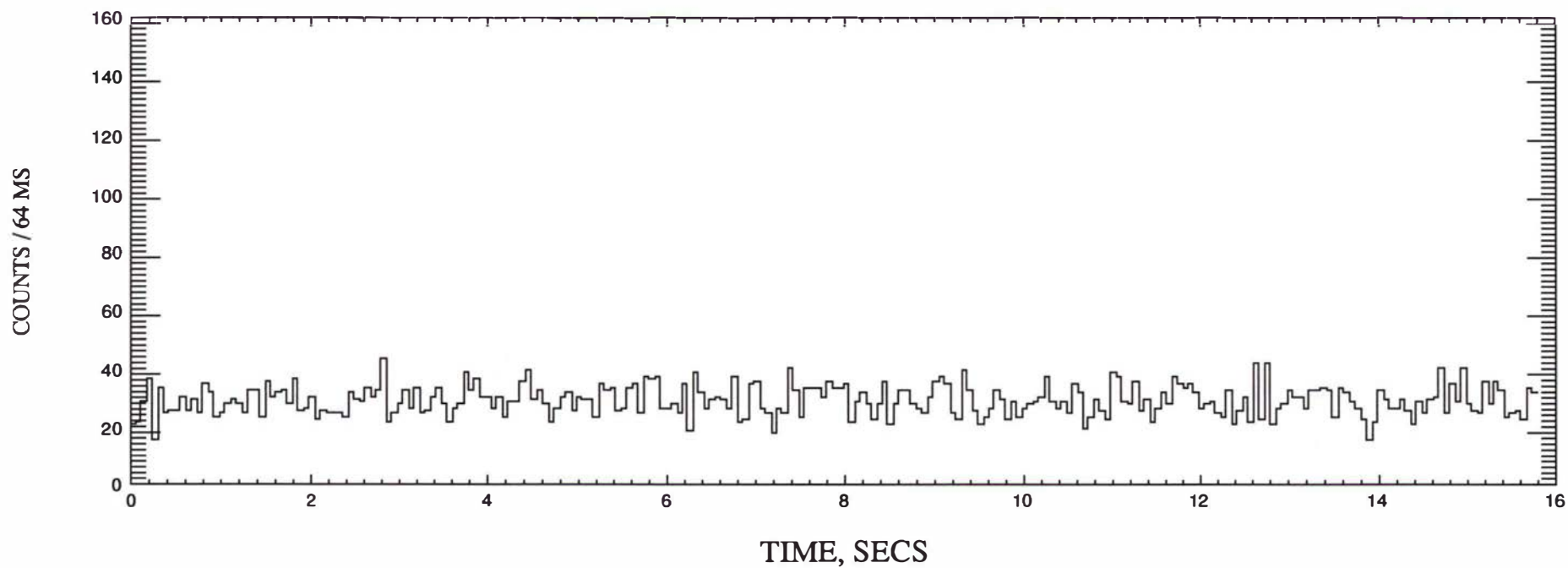
HUS 2A TRIGGERED DATA EDR day 150, year 1995
Burst Counter 13 at UT= 7.701419241163 h=27725.109 s 07:42:05.109

11/21/95



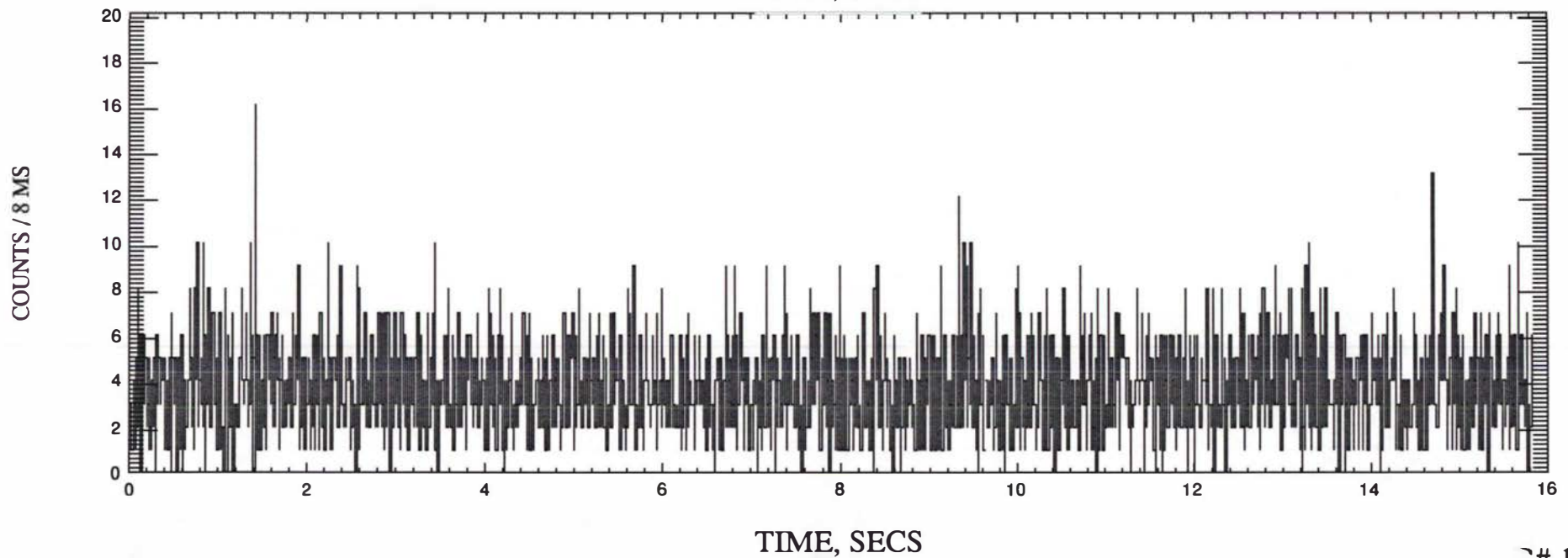
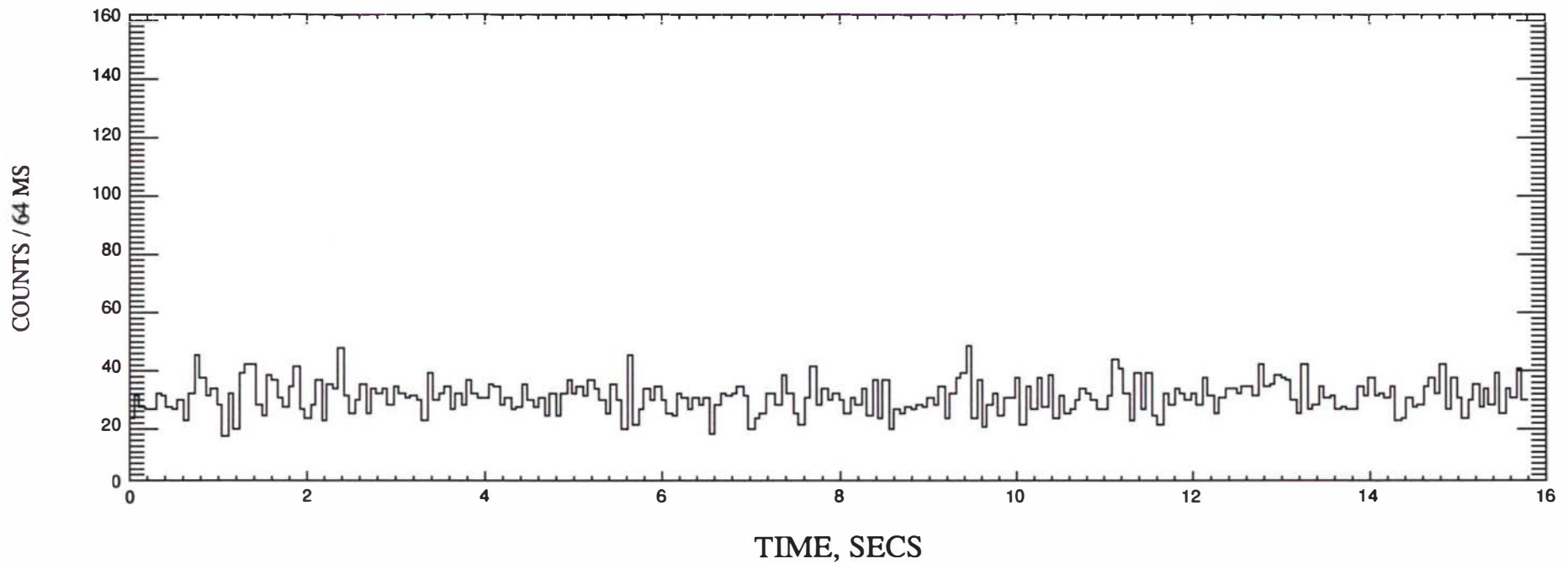
HUS 2A TRIGGERED DATA EDR day 150, year 1995
Burst Counter 14 at UT= 8.534733064440 h=30725.039 s 08:32:05.039

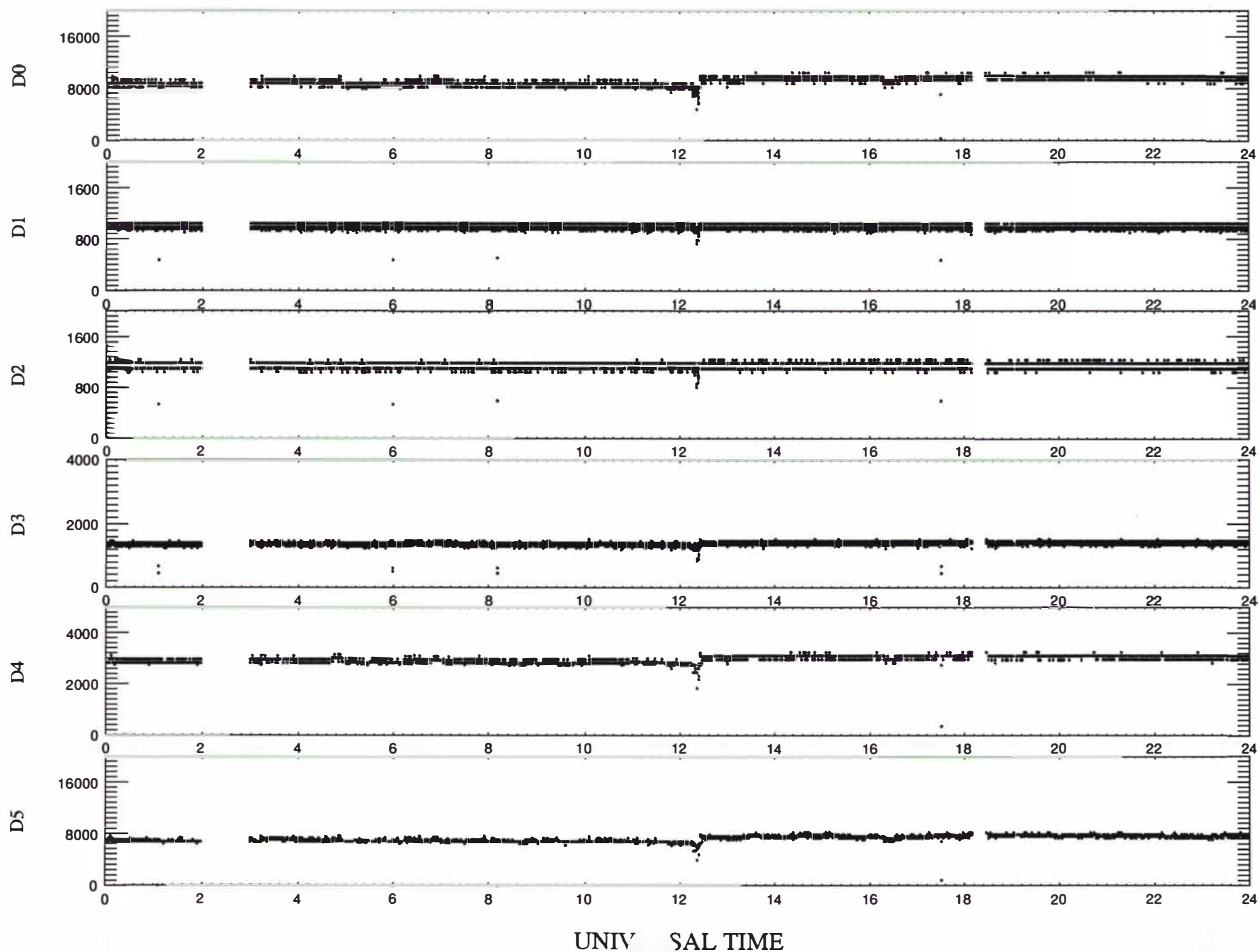
11/21/95



HUS 2A TRIGGERED DATA EDR day 150, year 1995
Burst Counter 15 at UT= 9.368048273722 h=33724.974 s 09:22:04.974

11/21/95





From RICHARDSON@ssl.msfc.nasa.gov Fri Jun 2 06:43 PDT 1995
Date: Fri, 2 Jun 1995 8:43:49 -0500 (CDT)
From: RICHARDSON@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.: 3610

TIME: TJD=9868 SECONDS=15275

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
SAA ENTRY

From RICHARDSON@ssl.msfc.nasa.gov Fri Jun 2 09:07 PDT 1995
Date: Fri, 2 Jun 1995 11:07:41 -0500 (CDT)
From: RICHARDSON@ssl.msfc.nasa.gov
To: khurley@sunspot.ssl.berkeley.edu
Subject: Crossing Windows for BATSE Burst 3611

BATSEARCH PROGRAM

No

BATSE BURST # 3611
EVENT OF 1995 MAY 31 DAY OF YEAR=151
EVENT CROSSING TIME AT BATSE : 38385. S. OR 10:39:45.0
COORDINATES ARE 0.000 0.000 6800. (RA, DEC, DIST.)
BURST ARRIVAL DIRECTION: 275.000 18.000
BATSE PEAK COUNTING RATE: 3500 C/S

EVENT CROSSING TIME AT ULYSSES WILL BE FOUND
INTERPOLATED POSITION OF ULYSSES ON 31/ 5/ 95 IS:
RA= 10.702 DEC= 49.452 DIST= 2.021 AU
BATSE-ULYSSES DISTANCE = 302274781. KM.
ANGLE WHICH BATSE-ULYSSES VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 99.98 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= -174.81 SECS.
CROSSING TIME AT ULYSSES IS 38210. S. OR 10:36:50 +/- 219.75 SECONDS

EVENT CROSSING TIME AT MARS WILL BE FOUND
POSITION OF MARS ON 31/ 5/ 95 IS:
RA= 154.921 DEC= 11.867 DIST= 1.407 AU
MARS-BATSE DISTANCE = 210530960. KM.
ANGLE WHICH BATSE-MARS VECTOR MAKES WITH GRB ARRIVAL DIRECTION= 66.24 DEG.
LIGHT TRAVEL TIME ALONG PROJECTED PATH= 282.96 SECS.
CROSSING TIME AT MARS IS 38668. S. OR 10:44:27 +/- 115.88 SECONDS
NO.: 3611

TIME: TJD=9868 SECONDS=38385

TYPE: BURST SOLAR FLARE TRIGGER SIGNAL:Y

SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH=153.6 AZIMUTH=2.0 ERROR= DEGREES

COMMENTS:

GRB, WITH STRUCTURE. FAST RISE, DURATION APROX. ~3SEC. WEAKLY VISIBLE ABOVE 300KEV.

BATSE #	Date	TJD	SoD	Max ct/s	RA	Dec	Dur (s)
3611	950531	9868	38385	3500	275	+18	3

From cline@tgrs.gsfc.nasa.gov Fri Jun 2 12:17 PDT 1995
Date: Fri, 2 Jun 1995 12:17:25 +0800
Mime-Version: 1.0
To: KHURLEY@sunspot.ssl.berkeley.edu
From: cline@tgrs.gsfc.nasa.gov (T L Cline)

KEVIN:

Message from Paul Butterworth:

Subj: Konus observations of BATSE # 3611 event (31 May, 10:39UT)

Hi Everyone,

Konus did not trigger. The event is visible in background data from the Northward-facing detector. (Nothing is visible in the data from the Southward-facing detector, so the source was more than a few degrees north of the ecliptic). It is seen as a faint event in the lowest energy monitor (10-50 keV) and is only barely visible in the 50-200 keV monitor (which is why Konus didn't trigger burst mode observations) so it looked as weak and soft to Konus as it did to BATSE.

Paul.

PS: I should also have mentioned that it was seen only during two adjacent 3-second background integrations, so it was visible to Konus for less than 6 seconds. P.

TLC

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

2 / 6 / 95

ULYSSES RT

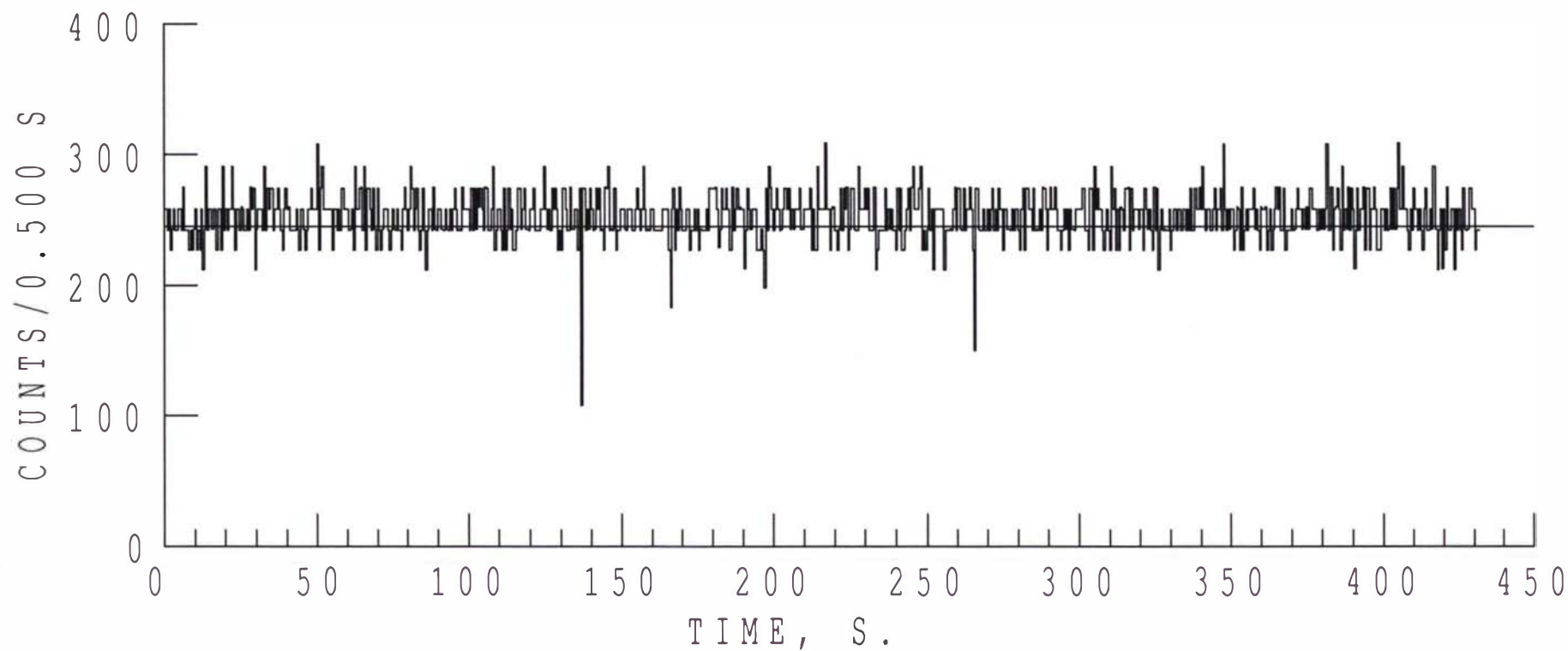
31 / 5 / 95 37980.207 s

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 Jun 2 06:36 PDT 1995
Date: Fri, 2 Jun 1995 8:35:59 -0500 (CDT)
From: RICHARDSON@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.: 3612

TIME: TJD=9868 SECONDS=54689

TYPE: ELECTRO SOLAR FLARE TRIGGER SIGNAL:N

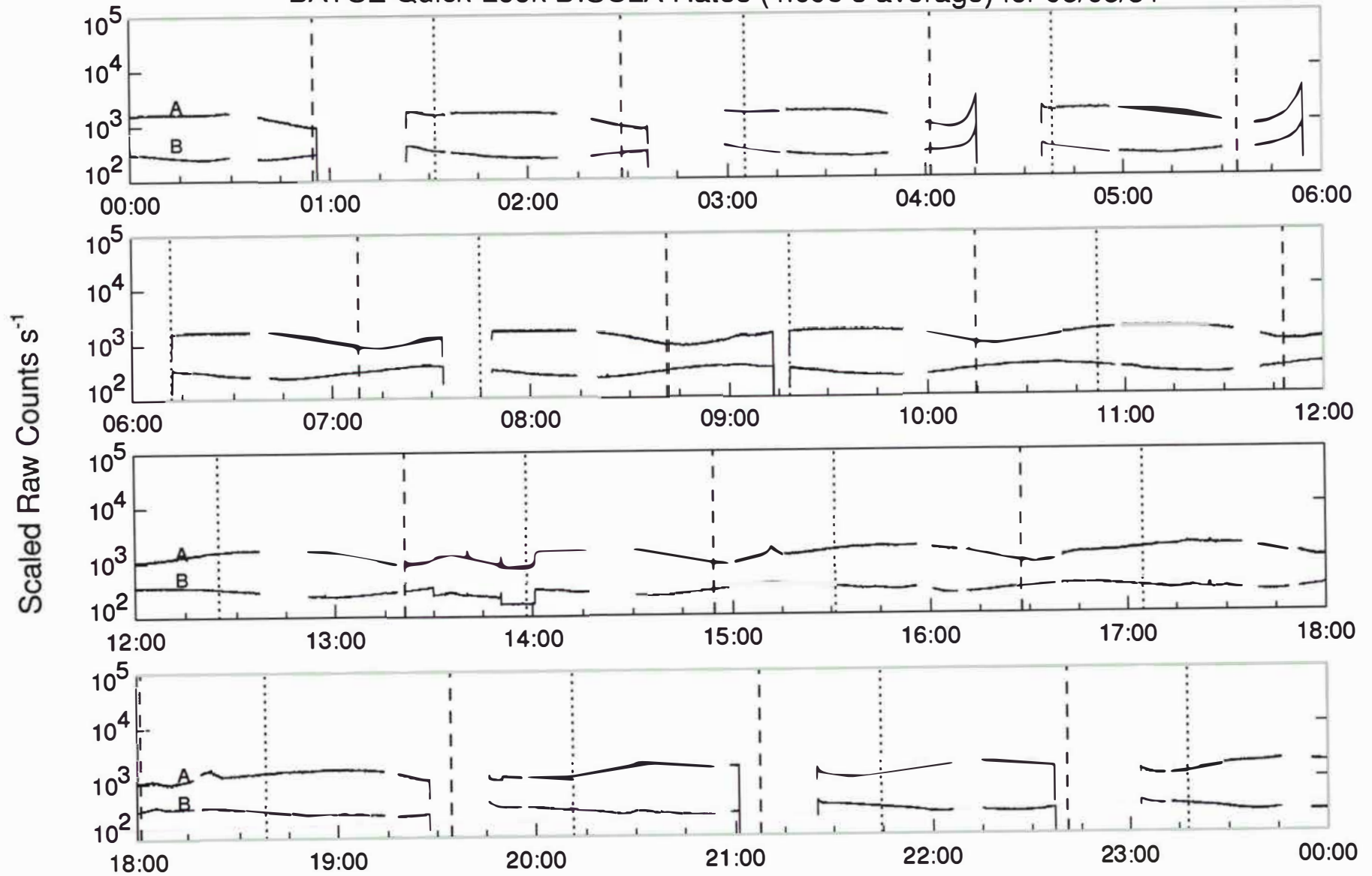
SIGNIFICANCE: SIGMA

INTENSITY: COUNTS/CM2

LOCATION: ZENITH= AZIMUTH= ERROR= DEGREES

COMMENTS:
ELECTRON EVENT

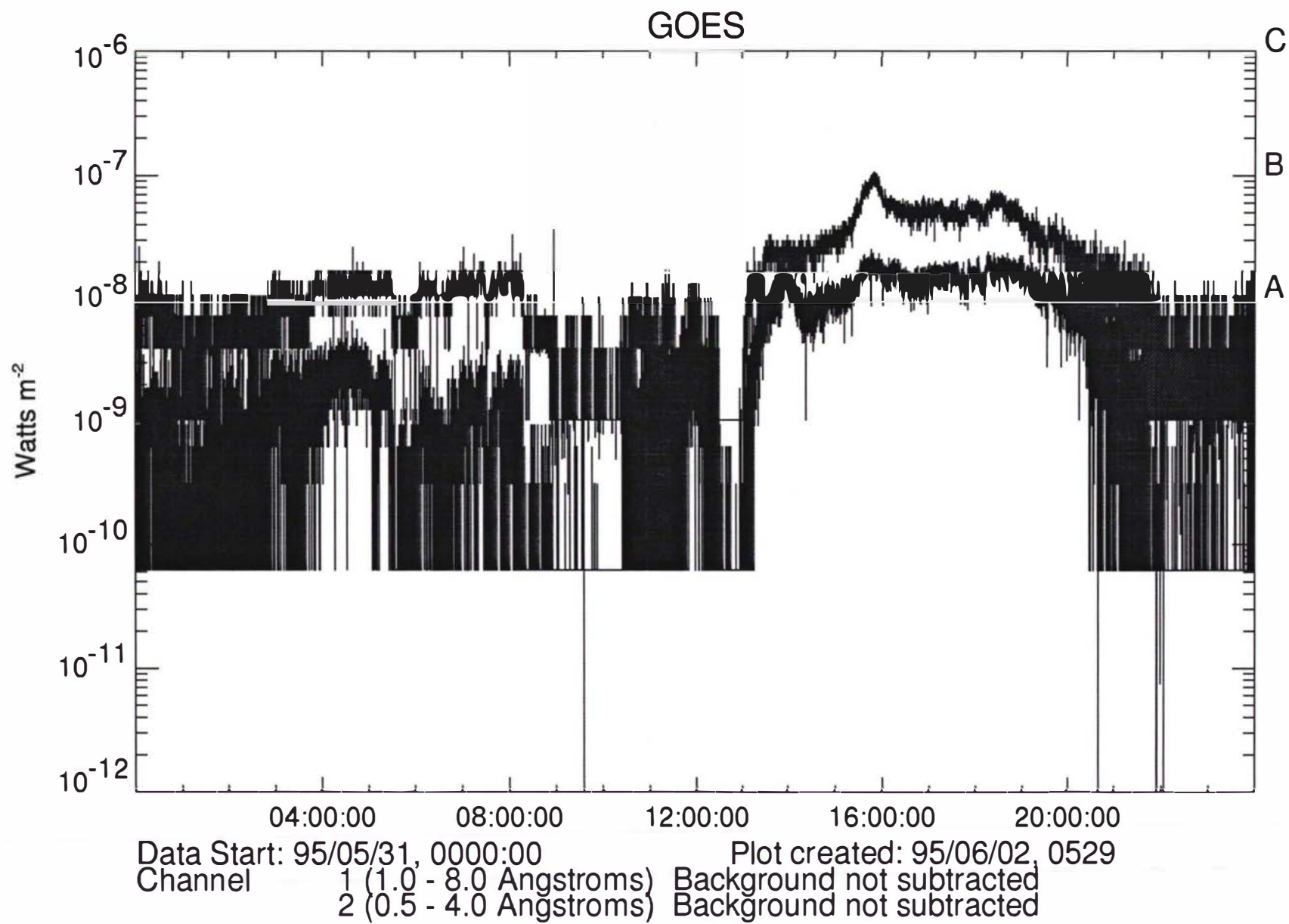
BATSE Quick-Look DISCLA Rates (4.096 s average) for 95/05/31



Current Time: 95/06/02, 0529 EDT
 A: Channel 0 Most Sunward LAD
 B: Sum Channel 0 Anti-Sunward LADs X .05

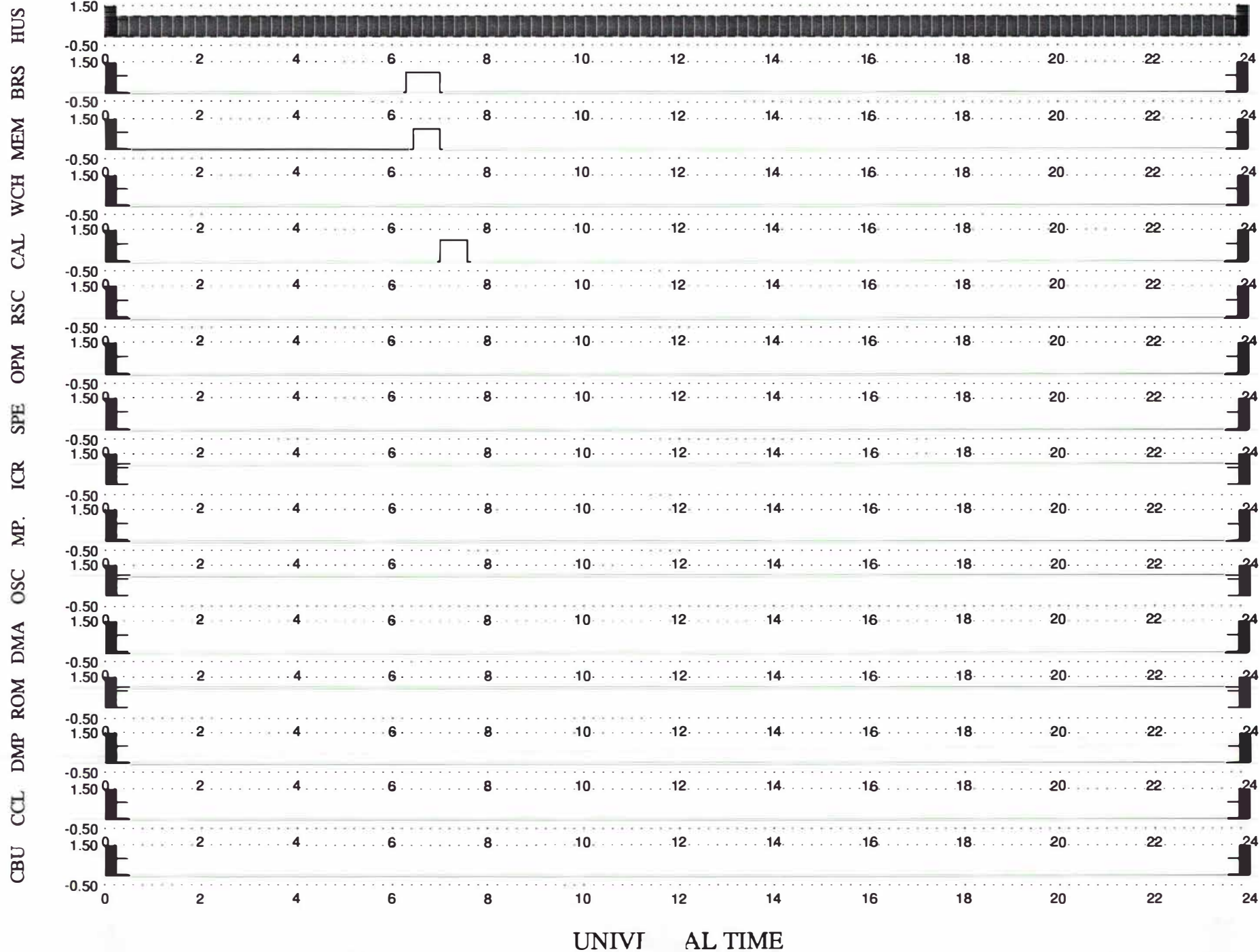
Dotted line: Day entry
 Dashed line: Night entry

* Solar Burst Trigger
 + Solar Flare



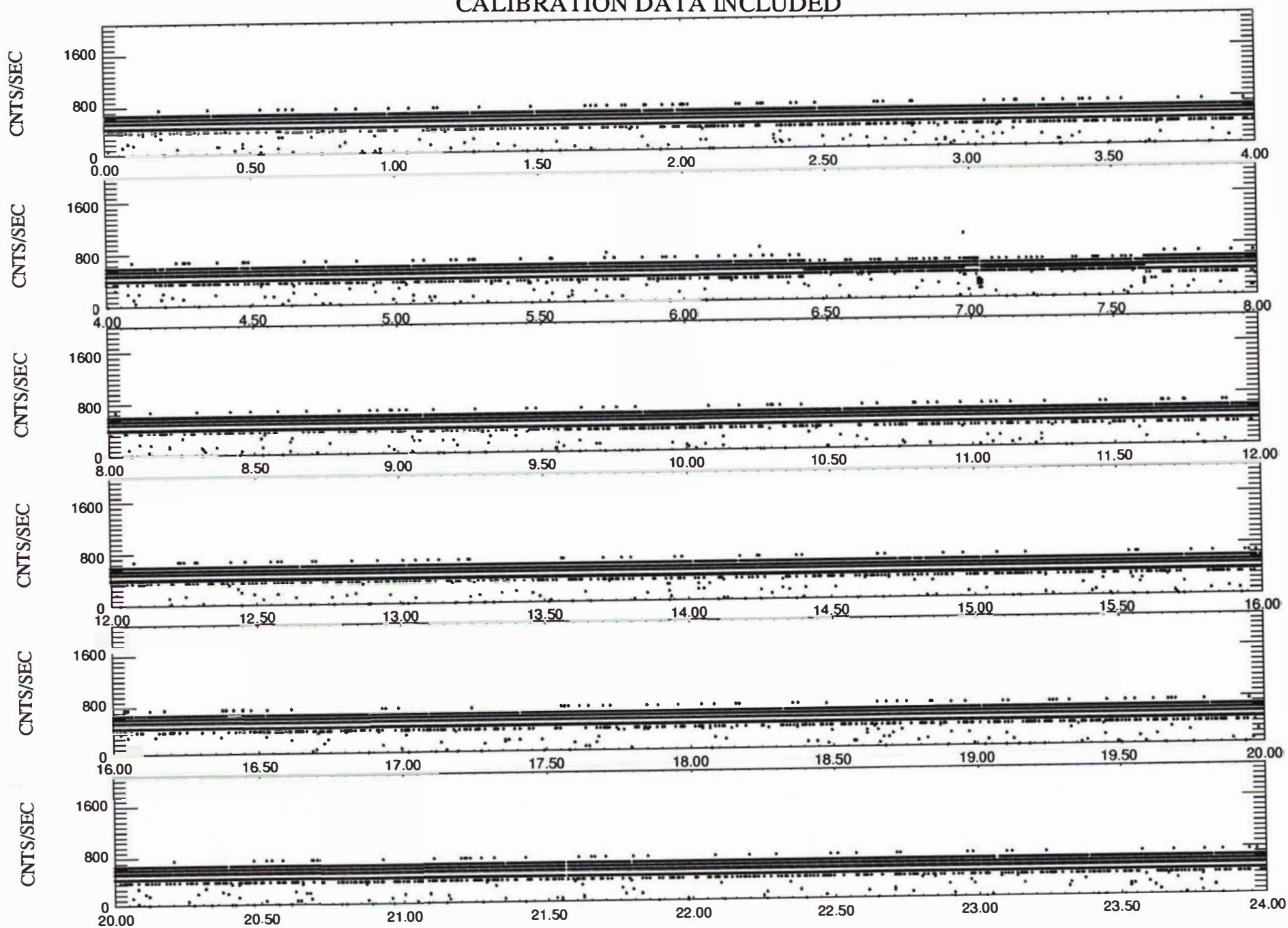
HUS MODES EDR day 151, year 1995 to day 151, year 1995
BURST NUMBER 0

11/21/95



HUS 2A, MODE 1, NOT AVERAGED EDR day 151, year 1995 to day 151, year 1995
CALIBRATION DATA INCLUDED

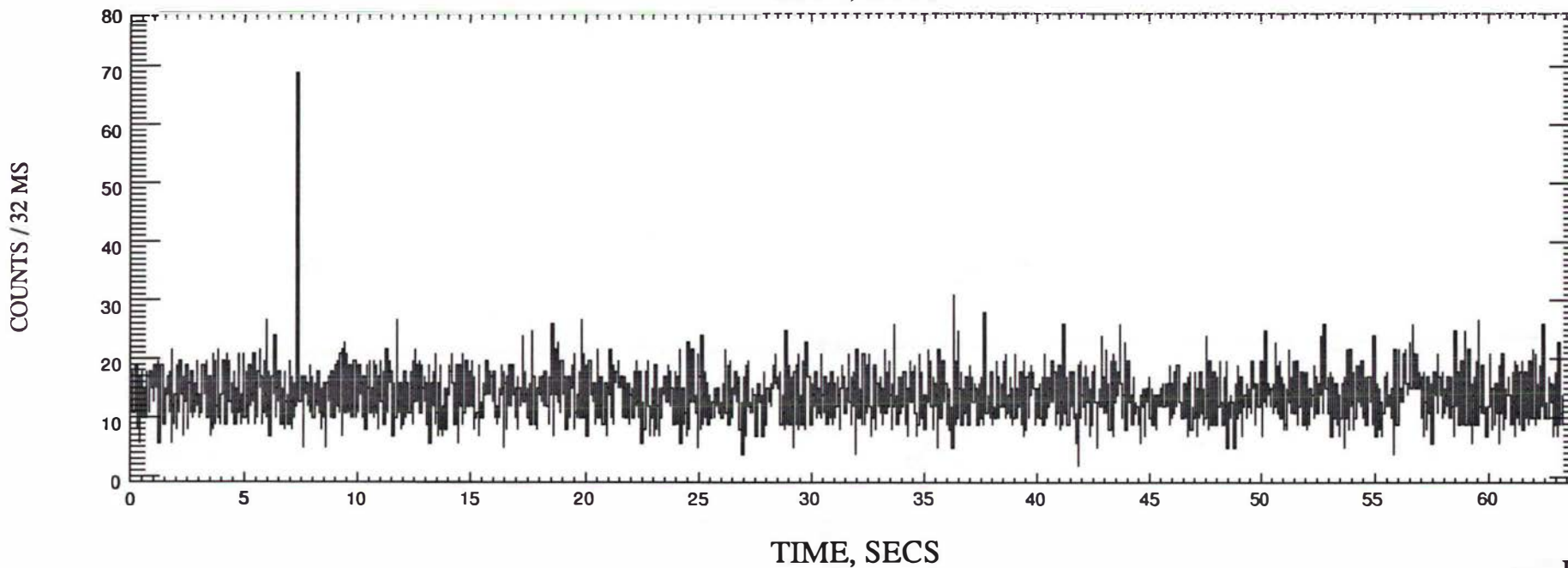
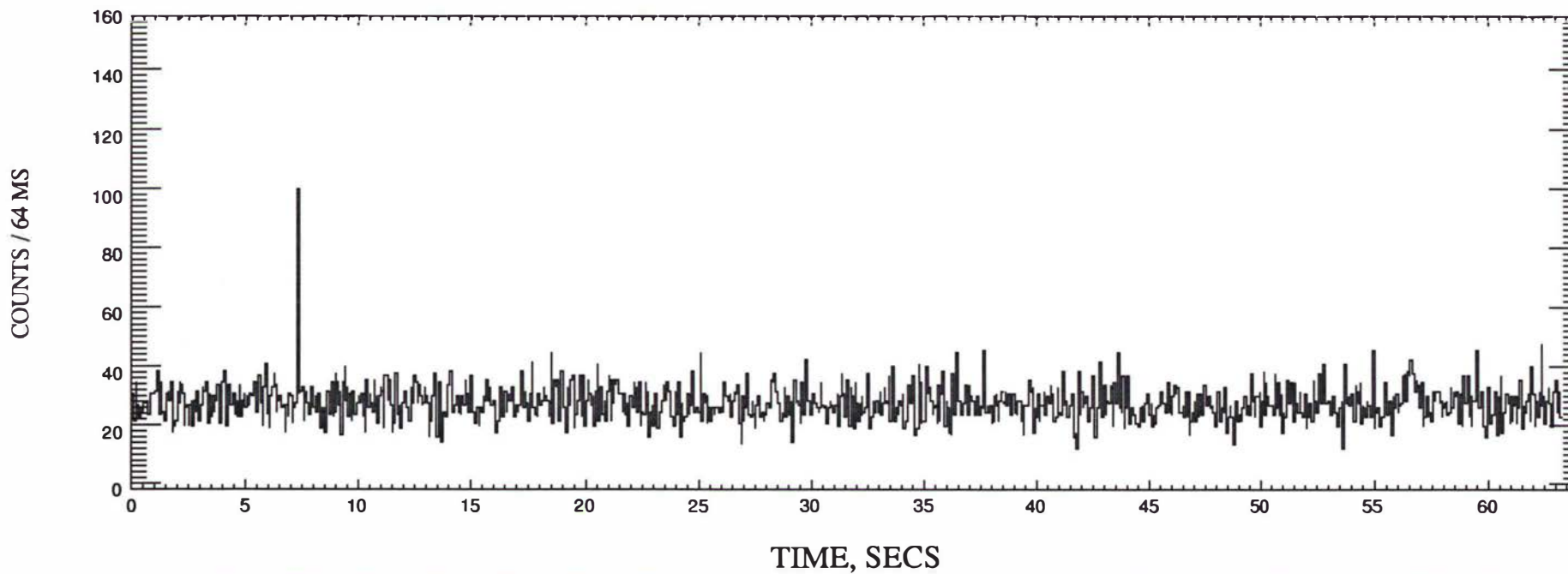
11/21/95



UNIV. TIME

HUS 2A TRIGGERED DATA EDR day 151, year 1995
Burst Counter 0 at UT= 6.267089542813 h=22561.522 s 06:16:01.522

11/21/95



HUS 2A, MODE 1, NOT AVERAGED QEDR day 151, year 1995 to day 151, year 1995
CALIBRATION DATA INCLUDED

6/2/95

