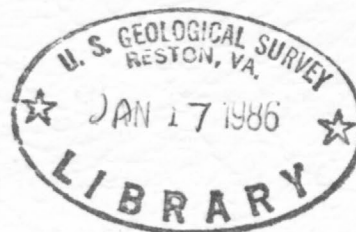


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PROCESSED DATA FROM THE
SAN JUAN BAUTISTA
101/156 SEPARATION BRIDGE
AND THE
SAN JUAN BAUTISTA FREEFIELD RECORDS
FROM THE COYOTE LAKE EARTHQUAKE
6 AUGUST 1979

1983



CALIFORNIA DEPARTMENT OF CONSERVATION
DIVISION OF MINES AND GEOLOGY

Open-file report
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(U.S.))

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PROCESSED DATA FROM
THE SAN JUAN BAUTISTA 101/156 SEPARATION BRIDGE
AND THE SAN JUAN BAUTISTA FREEFIELD RECORDS
FROM THE COYOTE LAKE EARTHQUAKE
6 AUGUST 1979

U.S. GEOLOGICAL SURVEY
MENLO PARK, CALIFORNIA 94025

SPECIAL PUBLICATION 64

OFFICE OF STRONG MOTION STUDIES
CALIFORNIA DEPARTMENT OF CONSERVATION
DIVISION OF MINES AND GEOLOGY
2811 "O" STREET
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1983

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PREFACE

This joint report is published by both the U.S. Geological Survey (USGS) and the California Division of Mines and Geology (CDMG) and represents the cooperative efforts by the personnel of both government agencies.

The report describes the processed data derived from strong-motion records obtained at two stations during the Coyote Lake earthquake of 6 August 1979.

Both stations (San Juan Bautista - 101/156 separation bridge and San Juan Bautista freefield) are part of the CDMG network of stations with strong-motion instruments on structures and at freefield stations deployed throughout the State of California. The records were processed using the programs jointly developed by USGS and CDMG.

The San Juan Bautista highway separation bridge is an intensely instrumented structure whose sensor location pattern was developed within the framework of CDMG Strong Motion Instrumentation Program in cooperation with the USGS national program on strong-motion instrumentation. The San Juan Bautista freefield record represents the ground response record closest to the separation bridge (distance 4.2 km).

This report is the second joint report on the Coyote Lake earthquake processed data. The first report, "Processed Data from the Gilroy Array and Coyote Creek Records from the Coyote Lake Earthquake of 6 August 1979," describes the processing results of records obtained from six freefield instruments within 16 km of the epicenter. It is available from USGS (Open File Report 81-42) and from CDMG (Preliminary Report 24).

CONTENTS

	Page
Preface.....	iii
Introduction.....	1
Characteristics of the Coyote Lake Earthquake.....	3
Station Descriptions.....	5
Records and Digitizations.....	7
Processing.....	13
0. Reassembly	
1. Uncorrected Accelerograms	
2. Corrected Accelerations, Velocities, Displacements	
3. Response Spectra	
4. Fourier Spectra by FFT	
5. Duration Spectra	
References.....	19
Appendix. Computer plots of processing.....	21
San Juan Bautista 101/156 Separation Bridge.....	22
San Juan Bautista Freefield.....	126

ILLUSTRATIONS

Figure 1.	Location map for the 6 August 1979 Coyote Lake Earthquake, indicating the San Juan Bautista, San Martin--Coyote Creek and Gilroy Array stations.....	2
Figure 2.	San Juan Bautista 101/156 Separation Bridge.....	6
Figure 3.	Location of panels used during digitizing of San Juan Bautista 101/156 Separation Bridge Record.....	10

TABLES

1.	Epicentral, focal, and fault distances (km).....	4
2.	Station data characteristics.....	4
3.	Record data and instrumental constants.....	8
4.	Digitized measurements from the San Juan Bautista 101/156 Separation Bridge Record.....	11
5.	Peak values of processed data.....	12

INTRODUCTION

This report contains summaries and plots of the results of completed processing performed on two strong-motion records obtained from the Coyote Lake earthquake of August 1979. Additional copies of this report may be obtained from the Open-File Services Stations, Branch of Distribution, USGS, Box 25425, Federal Center, Denver, Colorado, 80225, or from California Division of Mines and Geology, Office of Strong Motion Studies, 2811 "O" Street, Sacramento, California 95816.

Digital data corresponding to the plots of the uncorrected accelerograms; corrected readings of acceleration, velocity, and displacement; and Fourier and response spectra (Volume 1, 2, and 3 of processed data output, respectively) may be obtained on magnetic tape from CDMG at the above address.

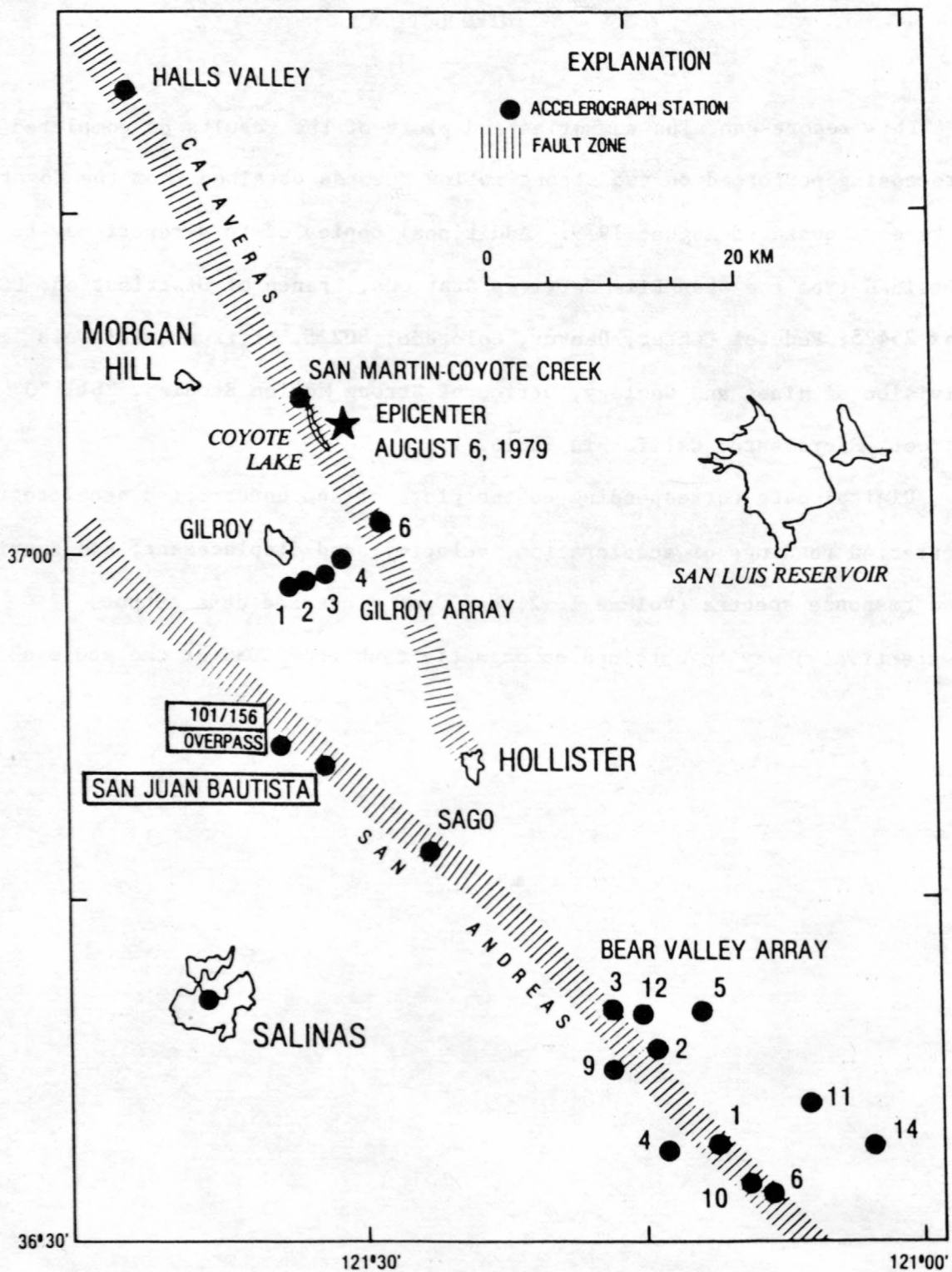


Figure 1. Location map for 6 August 1979 Coyote Lake Earthquake. The San Juan Bautista stations as well as Coyote Creek and Gilroy Array stations are indicated. From Porcella and others, 1979.

CHARACTERISTICS OF THE COYOTE LAKE EARTHQUAKE

The following information is based on the preliminary report by Lee and others (1979), describing the August 6 Coyote Lake earthquake and its major aftershocks. The earthquake was of moderate size, magnitude 5.7 ± 0.2 , predominantly right-lateral strike-slip, with an origin time of August 6, 1979, 17h05m22.3 $\pm$ 0.1s (UTC). The epicenter was located at $37^{\circ}6.7'N$ and $121^{\circ}32.0'W$, (± 1 km), with an approximate focal depth of 9.6 km. The calculated location of the epicenter is about 1 km to the east of the Calaveras fault trace in the vicinity of Coyote Lake, about 10 km NNE of Gilroy (Figure 1). From calculated aftershock locations it has been estimated that faulting during the main shock extended 20 km to the southeast of the epicenter along the Calaveras fault at depths of between 4 and 12 km. No evidence of significant surface faulting has been found. Uhrhammer (1980) reports on the major seismological data obtained from the Seismographic Station network of the University of California at Berkeley: origin time, 17:05:22.71; epicenter, $37^{\circ}6.12'N$, $121^{\circ}30.20'W$; depth, 6.3 km; $M_L=5.9$. Reasenber and Ellsworth (1983) after detailed work on the main shock and the aftershocks report the following data: origin time, 17:05:22.32; epicenter, $37^{\circ}6.17'N$, $121^{\circ}30.72'W$; depth, 8.33 km; $M_L=5.9$.

Damage was reported in Gilroy, Hollister, and other nearby communities, where preliminary estimates of Modified Mercalli Intensity (MMI) reach VII. Final intensity descriptions and isoseismal maps are available in the USGS Circular "Earthquakes in the United States," and are published in the annual joint NOAA and USGS publication "United States Earthquakes, 1979."

TABLE 1: EPICENTRAL, FOCAL, AND FAULT DISTANCES (km)

STATION	EPICENTRAL DISTANCE	FOCAL ¹ DISTANCE	FAULT ² DISTANCE
San Juan Bautista - 101/156 Separation bridge	28	30	14
San Juan Bautista - Freefield	30	31	11

¹ focal depth = 9.6 km ($\pm$ 2 km, Lee and others, 1979)

² perpendicular distance to surface trace of Calaveras fault as mapped by Jennings and Strand (1958)

TABLE 2: STATION CHARACTERISTICS

STATION NUMBER	STATION NAME	COORDINATES	TYPE OF STRUCTURE	INSTRUMENT LOCATION	DATA SOURCE
47315	San Juan Bautista - 101/156 Separation bridge	36.862 N 121.578 W	concrete bridge with steel girders	columns, decks,	CDMG
47126	San Juan Bautista - Freefield	36.846 N 121.536 W	one story woodframe building	conc. slab on grade	CDMG

STATION DESCRIPTIONS

The San Juan Bautista freefield station was instrumented with an SMA-1 (#1678) by CDMG June 4, 1974 in the fire station building of the city. The instrument has always remained in its initially installed position. After installation, the station was maintained by the USGS until April 16, 1980, at which time maintenance responsibility was transferred to CDMG. The station is situated on a Quaternary terrace formed by the San Benito River and is underlain by alluvial terrace fill of uncertain thickness (probably greater than 25 m).

The San Juan Bautista 101/156 separation bridge was instrumented by CDMG May 24, 1977 with a twelve channel CRA-1 (#139) system. The bridge was constructed in 1958-59 and consists of six simple spans of welded steel girders with a composite reinforced concrete deck. The superstructure is approximately 3.75 feet deep and consists of five welded steel girders at 7 foot center-to-center spacing. Foundation support for the bridge is entirely on spread footings. Steel girders are supported on steel bearings at abutments and bents. Bents consist of two reinforced concrete columns and all are skewed approximately 35 degrees from normal (Figure 2). Foundation materials beneath the bridge are nearly horizontal beds of moderately consolidated non-marine pebbly-cobbly sandstone interbedded with pebble conglomerate (J.E. Allen 1946; Charles Bishop, unpublished mapping) which represent Pliocene alluvial deposition (Purisima Formation). These deposits in proximity of the bridge are probably less than 15 m thick and overlie granitic basement.

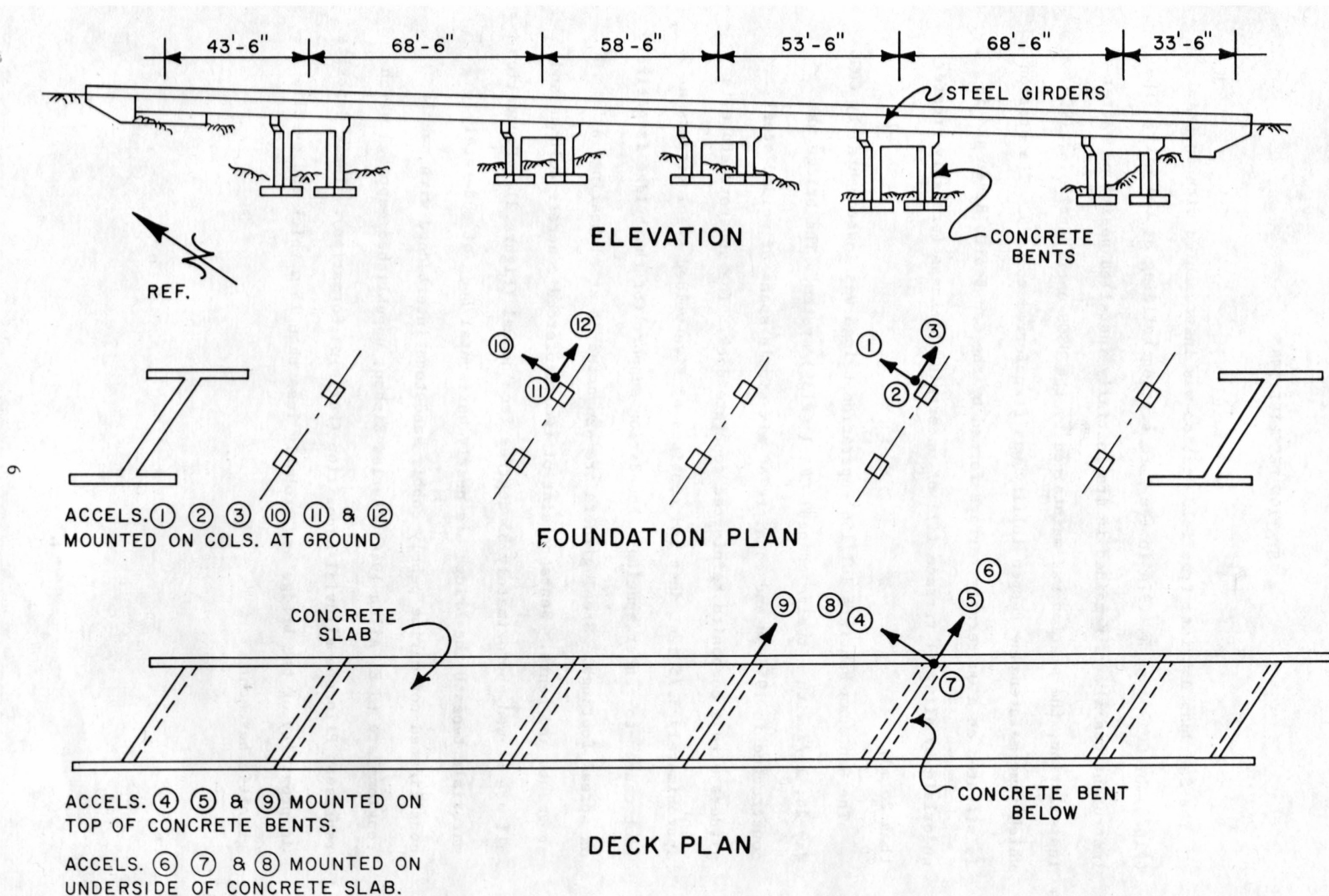


Figure 2. Location and orientation of recording channels at 101/156 highway separation bridge.

RECORDS AND DIGITIZATIONS

The two records analyzed in this report were recovered from the instruments within a few days of the event and developed at CDMG - Office of Strong Motion Studies. Copies were made for initial studies and for digitizing. Table 3 lists the data for the records and instruments. Table 4 presents digitized measurements from the San Juan Bautista 101/156 separation bridge record. Table 5 includes maximum accelerations scaled from the original records. Components are designated as the direction (azimuthal if horizontal) of positive instrument case acceleration (that is, ground acceleration if the instrument is measuring ground motion). Positive accelerations, together with positive velocity and displacement in later analyses, are located above the time axis on the original recording and in all plots. Positive directions of horizontal components are indicated in Figure 2.

The two records were digitized from contact prints of the originals by IOM-TOWILL of Santa Clara, California, on a trace-following laser scanner. The digitizer's least count is one micrometer (10^{-6}m) and its RMS error in digitizing a straight line of the photographic quality of the traces on these records is approximately 10 micrometers (Fletcher and others, 1979). For comparative purposes, the largest peak-to-peak excursions on the original records are approximately 15 mm. Each record was digitized in three sections, or frames, of about 9 cm length, and subsequently reassembled to recover the record of approximately 27 sec total duration (Porter and others, 1979). Computer processing of the digitized records, including this reassembly, was performed at the Lawrence Berkeley Laboratory computing center.

TABLE 3: RECORD DATA AND INSTRUMENT CONSTANTS

STATION NAME	STATION NUMBER	EPIC. DIST. (km)	COMPONENT NO. AZIM. (degree)	SENSIT. (cm/g)	PERIOD (sec)	DAMPING FRACTION	DIGITIZED LENGTH (sec)
San Juan Bautista- 101/156 Separation bridge	47315	28	1 337	1.79	.0196	.65	26.8
			2 UP	1.77	.0183	.57	
			3 67	1.83	.0197	.57	
			4 337	1.70	.0186	.57	
			5 67	1.70	.0183	.63	
			6 67	1.70	.0193	.61	
			7 DOWN	1.73	.0192	.57	
			8 337	1.80	.0190	.61	
			9 67	1.67	.0183	.61	
			10 337	1.80	.0198	.64	
			11 UP	1.77	.0194	.61	
			12 67	1.85	.0197	.57	
San Juan Bautista- Freefield	47126	30	1 303	1.80	.0394	.55	28.4
			2 UP	1.78	.0389	.55	
			3 213	1.86	.0395	.60	

The record from the San Juan Bautista 101/156 separation bridge required special handling during digitizing because its width (7 inches or 17.5 cm) exceeded that of the digitizer work table (6 cm). To ensure the most accurate treatment of the record the following techniques were used:

- (1) The record was divided into four panels with three overlap zones (Figure 3). One reference trace was located in each overlap zone and thus common to each pair of adjacent panels.
- (2) Two butting lines were drawn approximately perpendicular to the traces at 9 and 18 cm from the trace onsets, so that each panel was divided into three frames. The length of each frame was about 10 cm.
- (3) The traces in each panel were digitized by trace type in the sequence (a) data traces, (b) reference traces, and (c) time traces (if present). The number of traces per panel varied from three to seven.

The precision of the method is shown by the relatively small differences (4-20 micrometers) in the separation between butting lines as measured in the doubly digitized overlap zones (Figure 3, Table 4).

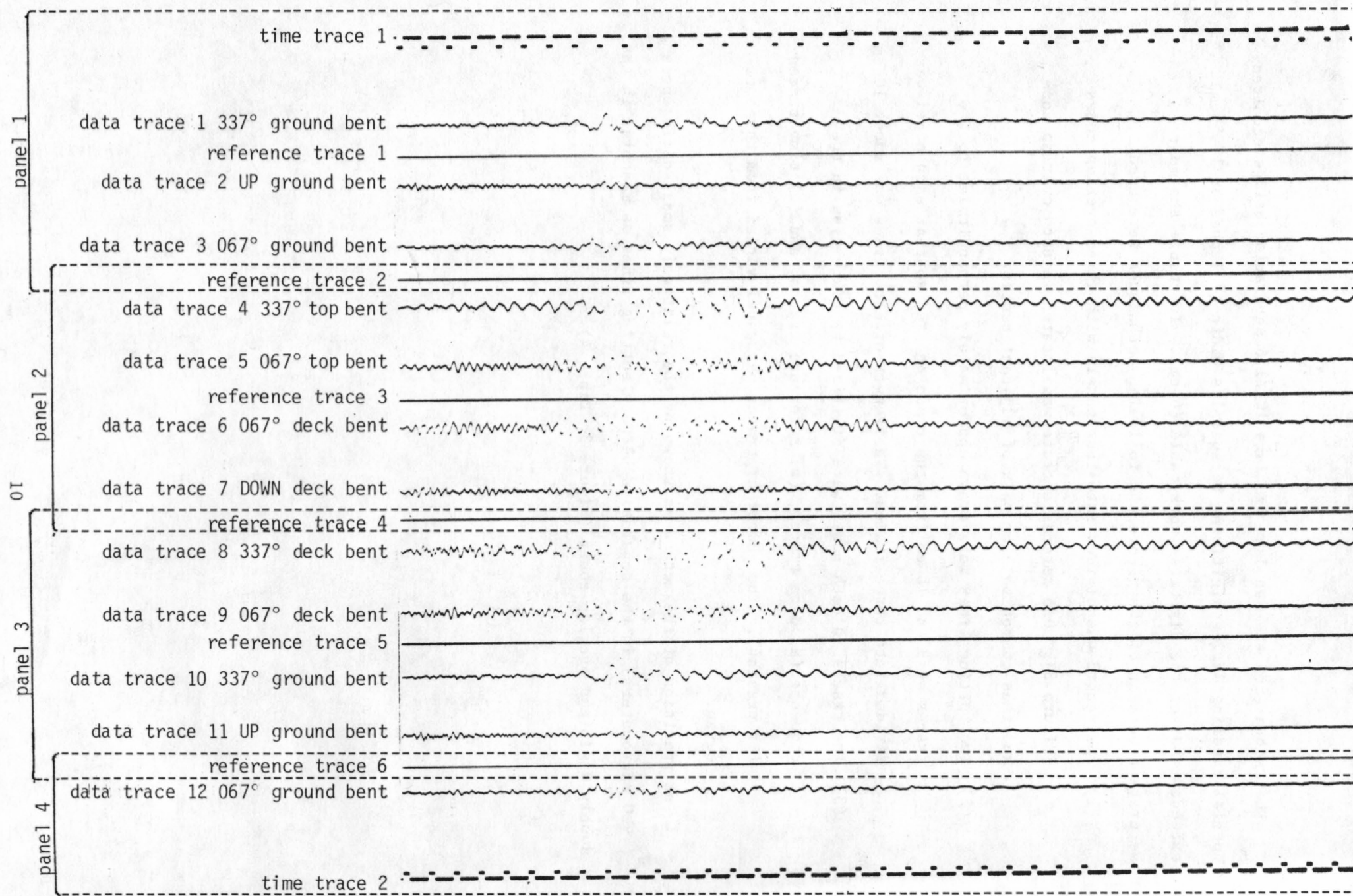


Figure 3. Location of panels used during digitizing of San Juan Bautista 101/156 Separation Bridge Record.

TABLE 4
 DIGITIZED MEASUREMENTS FROM THE
 SAN JUAN BAUTISTA 101/156 SEPARATION BRIDGE RECORD
 COYOTE LAKE EARTHQUAKE OF 6 AUGUST 1979

PANEL	TRACE IDENTIFICATION	BUTTING LINE INTERSECTIONS (micrometers)		
		BUTTING LINE 1	BUTTING LINE 2	DIFFERENCE
1	reference trace 1	97110	192610	95500
	reference trace 2	97142	192680	95538
	DIFFERENCE BETWEEN PANELS	55	35	20
2	reference trace 2	97197	192715	95518
	reference trace 3	91221	192769	95548
	reference trace 4	97244	192822	95578
	DIFFERENCE BETWEEN PANELS	38	21	17
3	reference trace 4	97282	192843	95561
	reference trace 5	97347	192879	95533
	reference trace 6	97411	192916	95505
	DIFFERENCE BETWEEN PANELS	9	13	4
4	reference trace 6	97402	192903	95501

TIME SHIFTS RELATIVE TO PANEL 1

2	-55
3	-93
4	-83

TABLE 5: PEAK VALUES OF PROCESSED DATA

STATION	COMPONENT		MAX. ACCELERATION		CORRECTED (cm/sec ²)	MAXIMUM VELOCITY (cm/sec)	MAX. DISPL (cm)
	NUMBER	ORIENTATION	SCALED (g)	DIGITIZED (g)			
San Juan Bautista- 101/156 Separation Bridge*	1	337°	.12	.1197	114.80	8.26	1.22
	2	UP	.06	.0451	41.92	2.55	.40
	3	67°	.08	.0785	74.08	4.50	.70
	4	337°	.33	.3201	266.5	11.50	1.30
	5	67°	.20	.1549	148.9	5.21	.69
	6	67°	.20	.1961	184.7	7.18	.58
	7	DOWN	.07	.0715	69.6	2.78	.39
	8	337°	.29	.2852	266.6	13.76	1.30
	9	67°	.19	.1899	177.3	5.79	.79
	10	337°	.13	.1184	111.1	8.31	1.12
	11	UP	.07	.0609	50.39	2.42	.40
	12	67°	.11	.1061	79.57	4.71	.76
San Juan Bautista- Freefield	1	303°	.10	.1074	101.7	5.79	1.33
	2	UP	.13	.1227	115.4	4.59	.65
	3	213°	.11	.1124	108.0	6.49	.90

*See Figure 2 for locations of sensors.

PROCESSING

Much of the analysis in the first four of the following sections is similar to that of the Caltech data reports (Hudson, 1976) and the data reports of the USGS since 1971. A brief description is included here of analysis steps or of notations that are not covered in the above.

0. Reassembly

Because the record from the San Juan Bautista 101/156 separation bridge was digitized in four separate panels, a special procedure was required to produce a composite numerical image from the individual frames:

- (a) The digitizer outputs for the frames in each panel were joined together mathematically by the reassembly computer program to produce a continuous numerical image of the panel. The same steps were employed as those used during the processing of the records from the 1978 Santa Barbara earthquake (Porter and others, 1979).
- (b) The panels were synchronized in time by comparing the coordinates of the intersections of the butting lines with reference traces that were common to each pair of adjacent panels. In this manner a common time base was established across the entire record, even though it had been digitized in four separate panels. The panel with the smallest coordinates for the intersections of the first butting line with the reference traces was selected as the base panel and the three remaining panels were shifted in time to match this panel (Table 4).

To prevent the saturation of phase one calculations which could result in the production of multiple time values, the digitizer output was examined by an automatic editor for the presence of any points that were either backwards-running or excessively closely spaced in time. If the spacing between successive points dropped to less than 0.0011 seconds the following technique was used to reduce the data density to an acceptable level:

- (a) The separation between the point in question (point $i+1$) and the one following it (point $i+2$) was examined to determine if point $i+1$ could be shifted forward in time to separate it by 0.0011 seconds from its predecessor (point i) and at least 0.0011 seconds from its successor (point $i+2$).
- (b) If procedure (a) could be carried out, then the amplitude associated with point $i+1$ was adjusted by second-order interpolation using the time-amplitude coordinates for points i and $i+2$ as anchors.
- (c) If the data density was too high to permit procedure (a), then the point in question (point $i+1$) was removed and the editing cycle continued until an acceptable separation was achieved.

A log was kept of the points that were shifted and those that were deleted. A summary of the editing for the fifteen traces processed in this manner shows that less than 10 points per trace were interpolated and removed.

1. Uncorrected Accelerograms

The digitized reference traces are subtracted from the data traces, and the digitized time marks are used to determine the time scale. The instrument scales the ordinates to accelerations. The components are specified by the direction of positive acceleration of the instrument case

(that is, ground acceleration, for a ground-level instrument) and this positive acceleration is plotted herein above the time axis. This convention, using azimuthal bearings for horizontal components, has been in effect with the USGS since 1978. Table 5 contains the maximum accelerations for each component from this digitized data.

Discrepancies between values for the peak acceleration when scaled from the original record or from the digitized version are due to two reasons, namely the different interpretation given to the peak's shape by the staff and the laser digitizer (or its operator), and the different placement of the zero acceleration axis by the staff and the computer program removing the mean acceleration value. A discrepancy of 0.02 g corresponds to 0.36 mm on the original film.

2. Corrected Accelerations, Velocities, Displacements

The corrections performed include the following:

- (a) High frequency Ormsby filtering (low pass) on data at 200 pts/sec with a ramp falling linearly from 23 to 25 Hz.
- (b) Instrument correction using the natural period and damping, performed on both 50 and 100 pts/sec data.
- (c) The baseline correction using a low frequency Ormsby filter (high-pass) with a ramp rising linearly from 0.05 to 0.25 Hz.
- (d) corrected velocity and displacement, including initial values, are derived during the baseline correction.

The selection of the filter parameters, namely the cutoff frequency f_c and the roll-off termination frequency f_T , in the low-frequency filtering in (c) above, was performed as discussed in Preliminary Report 24 (Brady and others, 1981).

These filter settings, however, pose a complication for the San Juan Bautista station record, because the displacements exhibited significant large-amplitude long period oscillations beginning at approximately 10 seconds. In order to show that these oscillations were legitimate geophysical signals and not spurious artifacts introduced by the filtering process, three additional calculations with different baseline corrections were performed. The baseline corrections were similar to those used in step (c) above, except that the following linear ramps were used:

- (a) 0.05 to 0.35 hz,
- (b) 0.25 to 0.65 hz, and
- (c) 0.40 to 0.65 hz

The ramps were selected in accordance with the criteria developed for the filtering of strong-motion accelerograms (Basili and Brady, 1978). The purpose of ramps (a) and (b) was to lengthen the ramp and hence shorten the portion of the signal over which the filter acted. The purpose of ramp (c) was to determine the effect of raising the termination frequency f_T from 0.05 to 0.40 hz while still maintaining a rise in the ramp (0.40 to 0.65 hz = 0.25 hz) nearly the same as that in the filter in the first Coyote Lake report and the processing of the separation bridge accelerogram.

The displacements for the corrected data at 50 pts/sec showed that the long-period signals were due to a low-frequency wave which arrived at about 10 seconds after trigger time. Proceeding in this manner it was possible to process all of the records with the same filter parameters. The late-arriving wave may be related to the alluvial basement underlying the San Juan Bautista freefield station.

The corrected accelerations, velocities, and displacements in the plotted data are positive when in the direction of the listed components. The peak values are listed in Table 5.

3. Response Spectra

The linear plots and the tripartite log-log plots of response spectra have been calculated from data at 100 pts/sec, for the slight advantage to be gained in the accuracy of the high frequency components. The Fourier amplitude spectrum appears in the linear plots, calculated at the same period values as the response spectra. The long period content is removed with a ramp starting at 4 sec and finishing at 20 sec. The data tape contains response spectra calculations at both 50 and 100 pts/sec.

4. Fourier Spectra by FFT

These spectra are plotted on both linear and log-log axes to accent the particular characteristics at each end of the spectrum. The location of both the low and high frequency ramps are indicated by the positions of f_c and f_T in each case. Corrected data at 50 pts/sec were used in calculating these spectra.

5. Duration Spectra

The contour plot of the velocity response envelope spectrum indicates at which times the envelope of the velocity response of a 5 percent-damped oscillator passes through various levels of velocity. The oscillators chosen have periods in the range of 0.05 to 4 sec. Their response for the entire duration of the record are used in preparing the plots. The discrete velocity levels chosen, defined by the contour interval, are fractions of the peak velocity response.

The duration spectrum is obtained from this velocity response envelope spectrum by adding up the total time for which the velocity envelope is greater than each of the velocity levels. On this spectrum is drawn a series of radial straight lines indicating the number of cycles of oscillation for any oscillator, so that the duration can be quoted in cycles. Although not labelled specifically, these lines represent, 1, 2, 4, 8, ...cycles, as can be readily checked against the axes. Corrected data at 50 pts/sec were used in these calculations.

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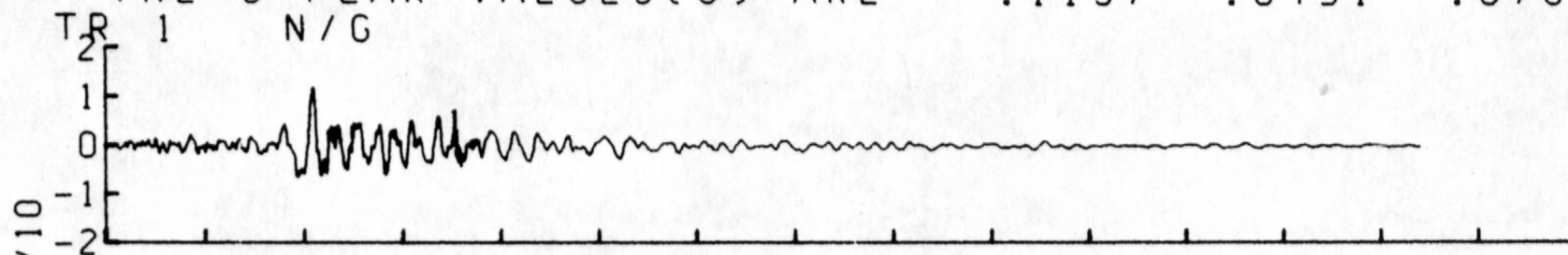
APPENDIX

UNCORRECTED ACCELEROGRAM

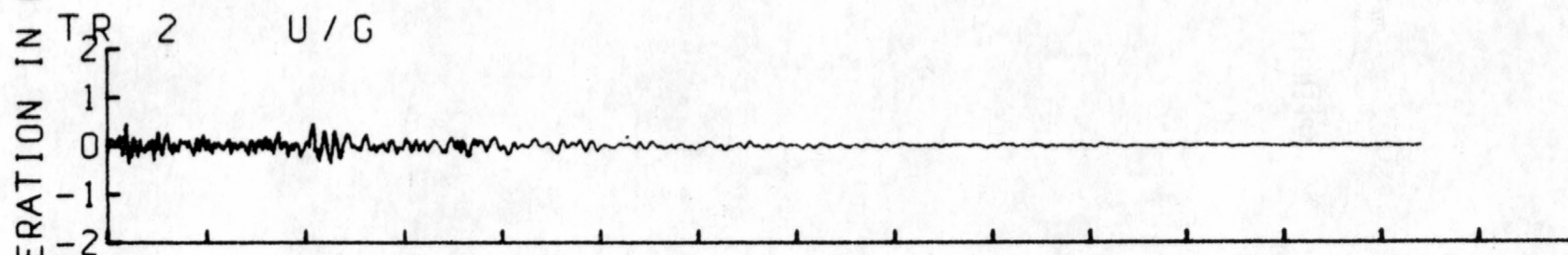
06 AUG 1979 1705 UTC DMG 315 SJB OVERPASS CRA 139

THE 3 PEAK VALUES(G) ARE .11197 .0451 .0785

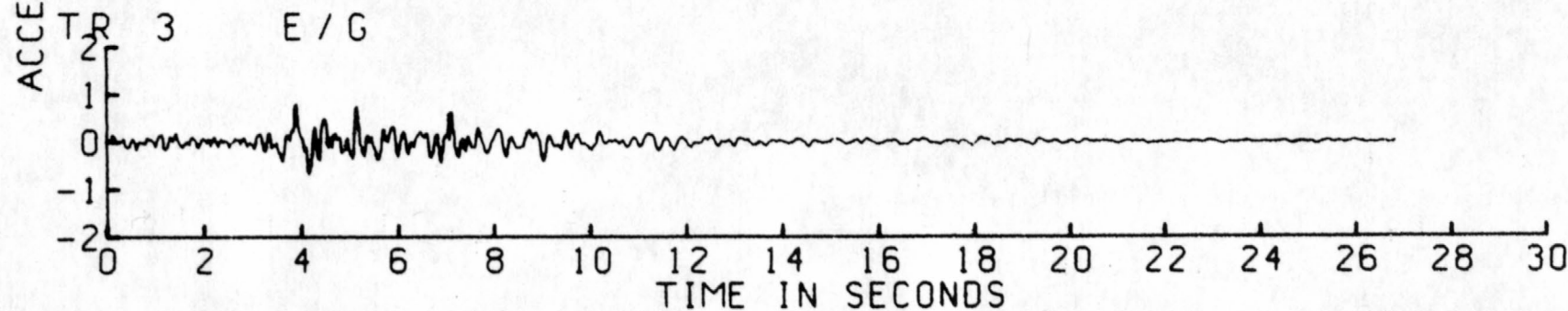
T R 1 N / G



T R 2 U / G

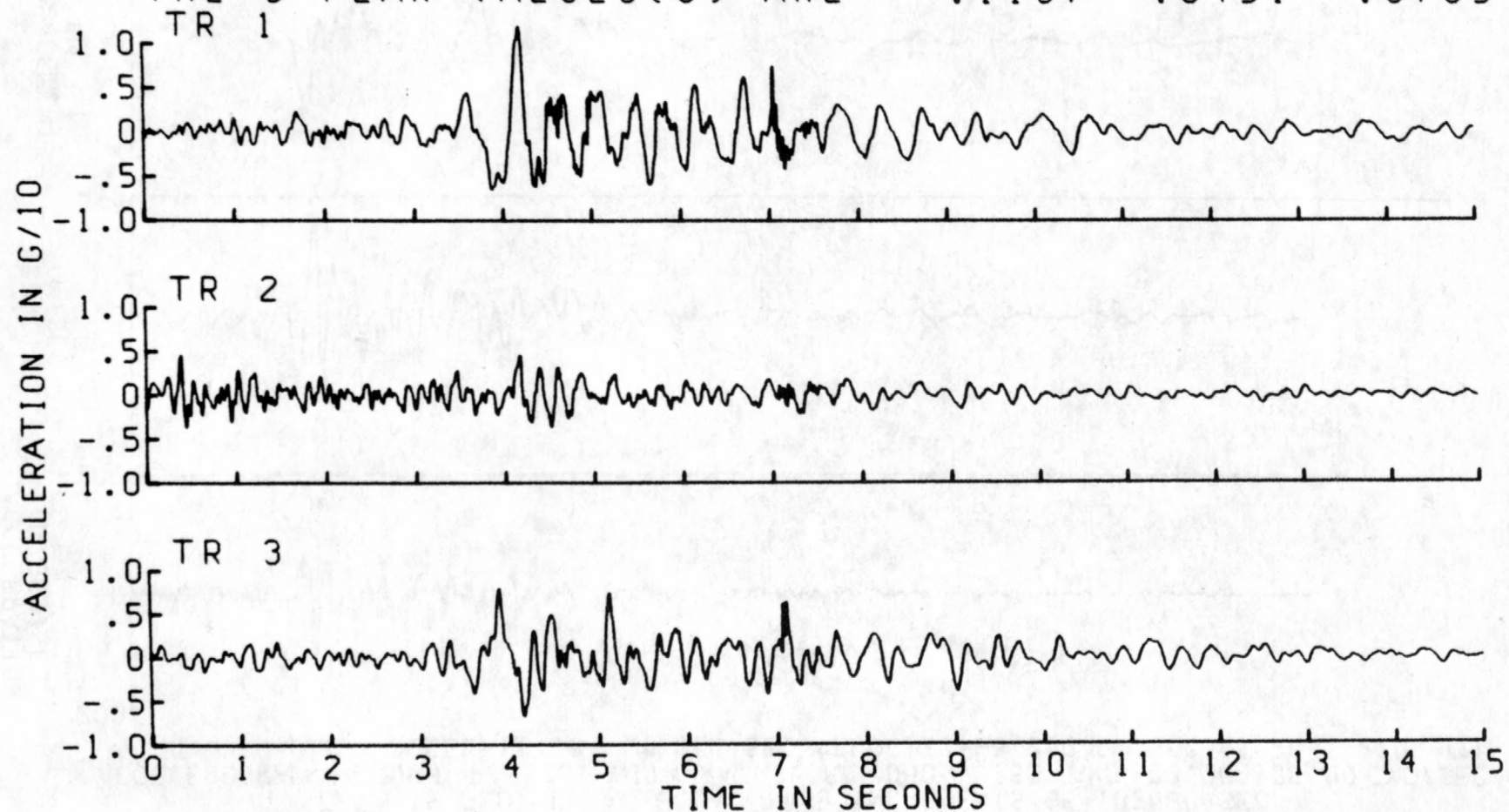


T R 3 E / G

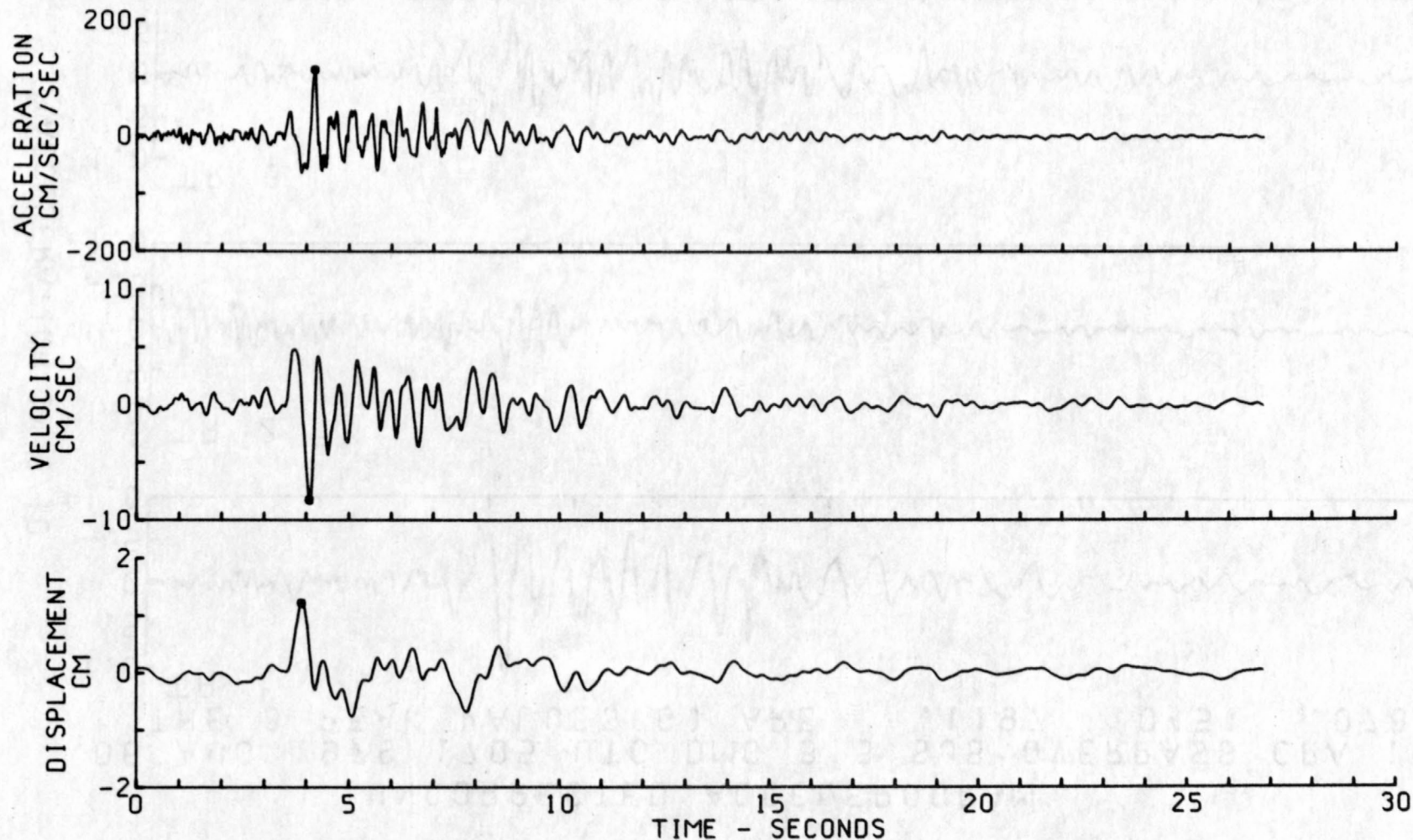


UNCORRECTED ACCELEROGRAM

06 AUG 1979 1705 UTC DMG 315 SJB OVERPASS CRA 139
THE 3 PEAK VALUES(G) ARE .1197 .0451 .0785



CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 1 N/GRND/BENTS
DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC
ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC
• PEAK VALUES ACCEL=114.8 CM/SEC/SEC, VELOCITY=-8.260 CM/SEC, DISPL=1.220 CM



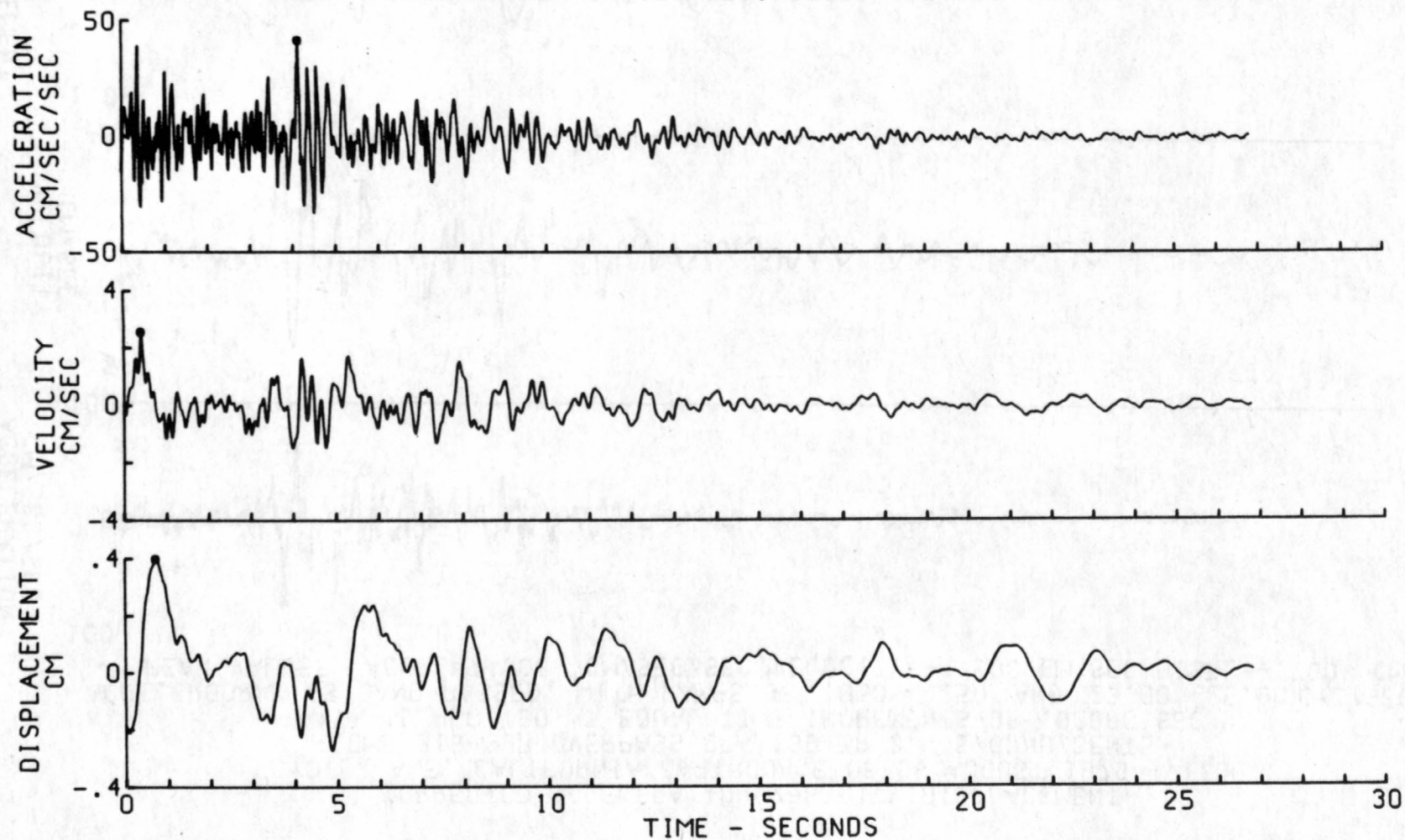
CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705

DMG 315 SJB OVERPASS CRA 139 TR 2 U/GRND/BENT5

DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC

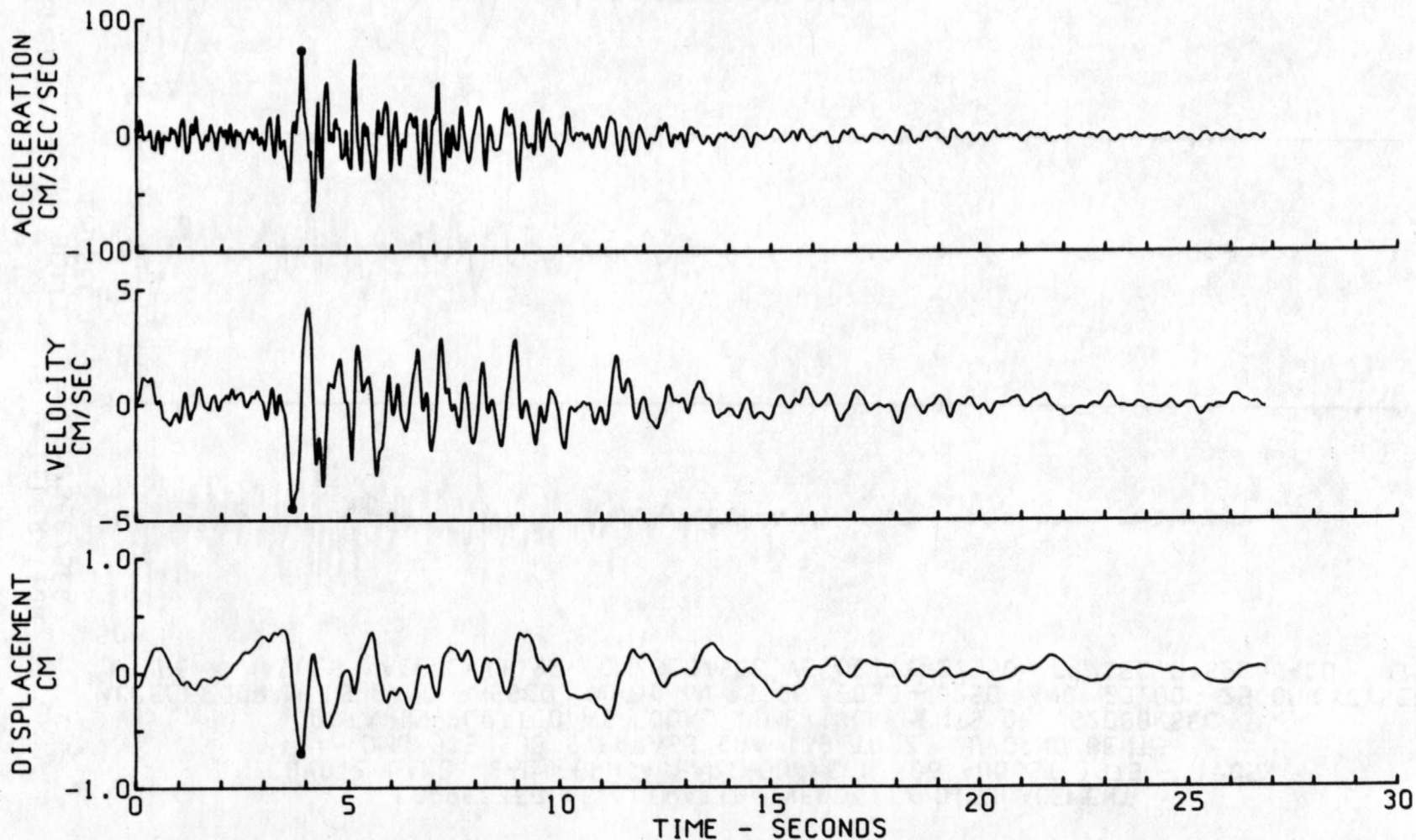
ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC

• PEAK VALUES ACCEL=41.92 CM/SEC/SEC, VELOCITY=2.550 CM/SEC, DISPL=.400 CM

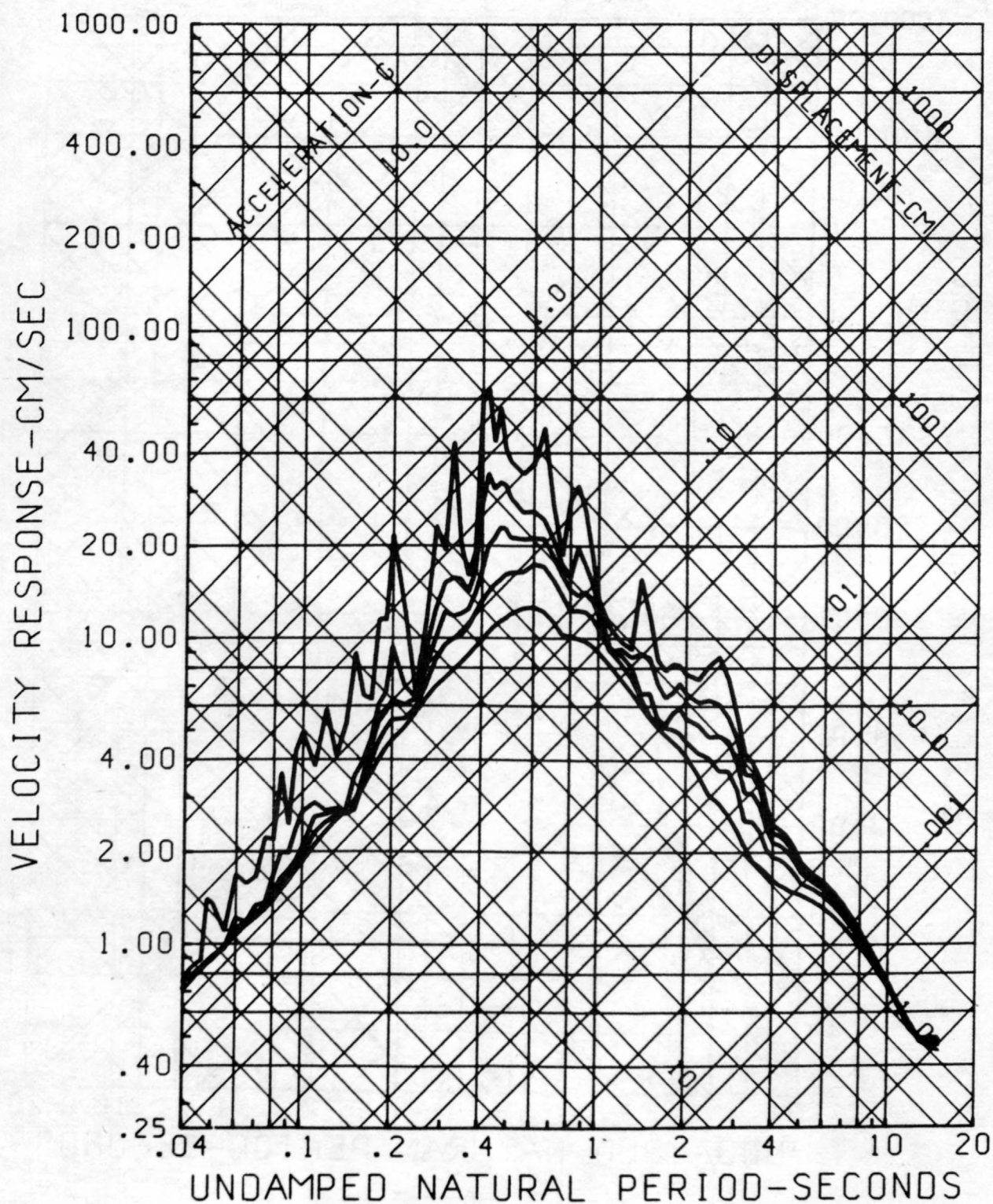


CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 3 E/GRND/BENT5

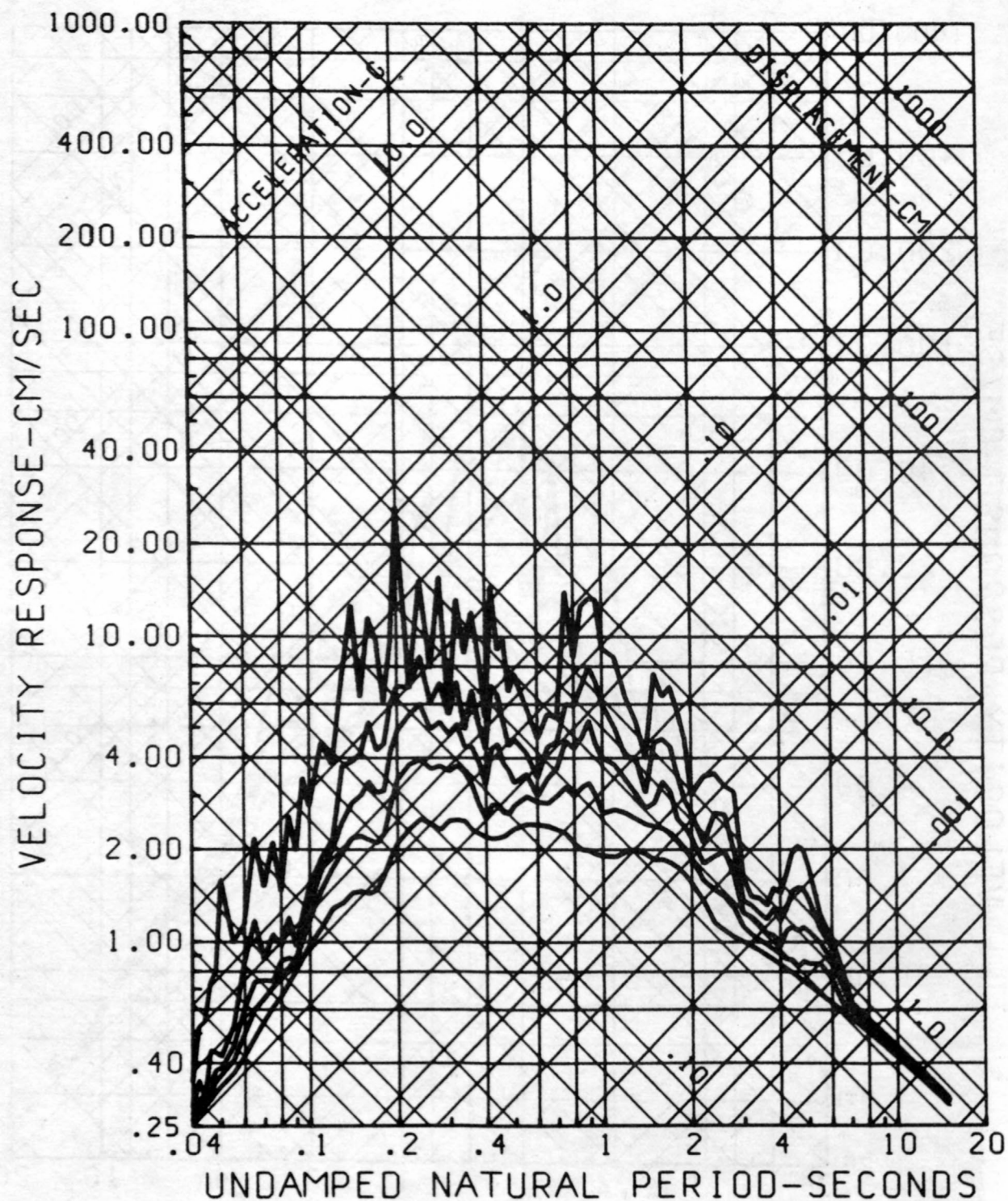
DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC
ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC
• PEAK VALUES ACCEL=74.08 CM/SEC/SEC, VELOCITY=-4.500 CM/SEC, DISPL=-.700 CM



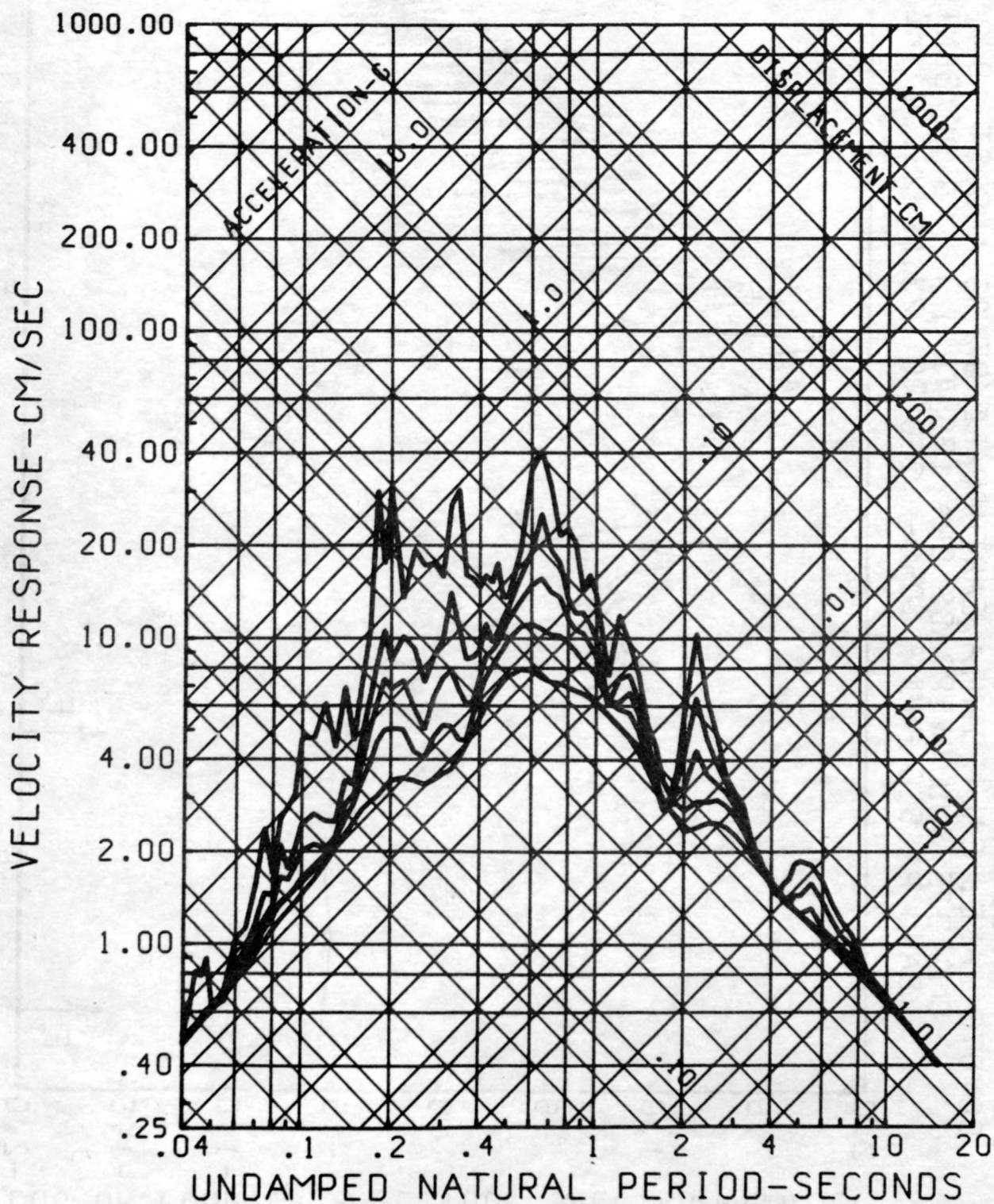
RESPONSE SPECTRA
 06 AUG 1979 1705 UTC SJB OVERPASS TR 1
 0.2,5,10,20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



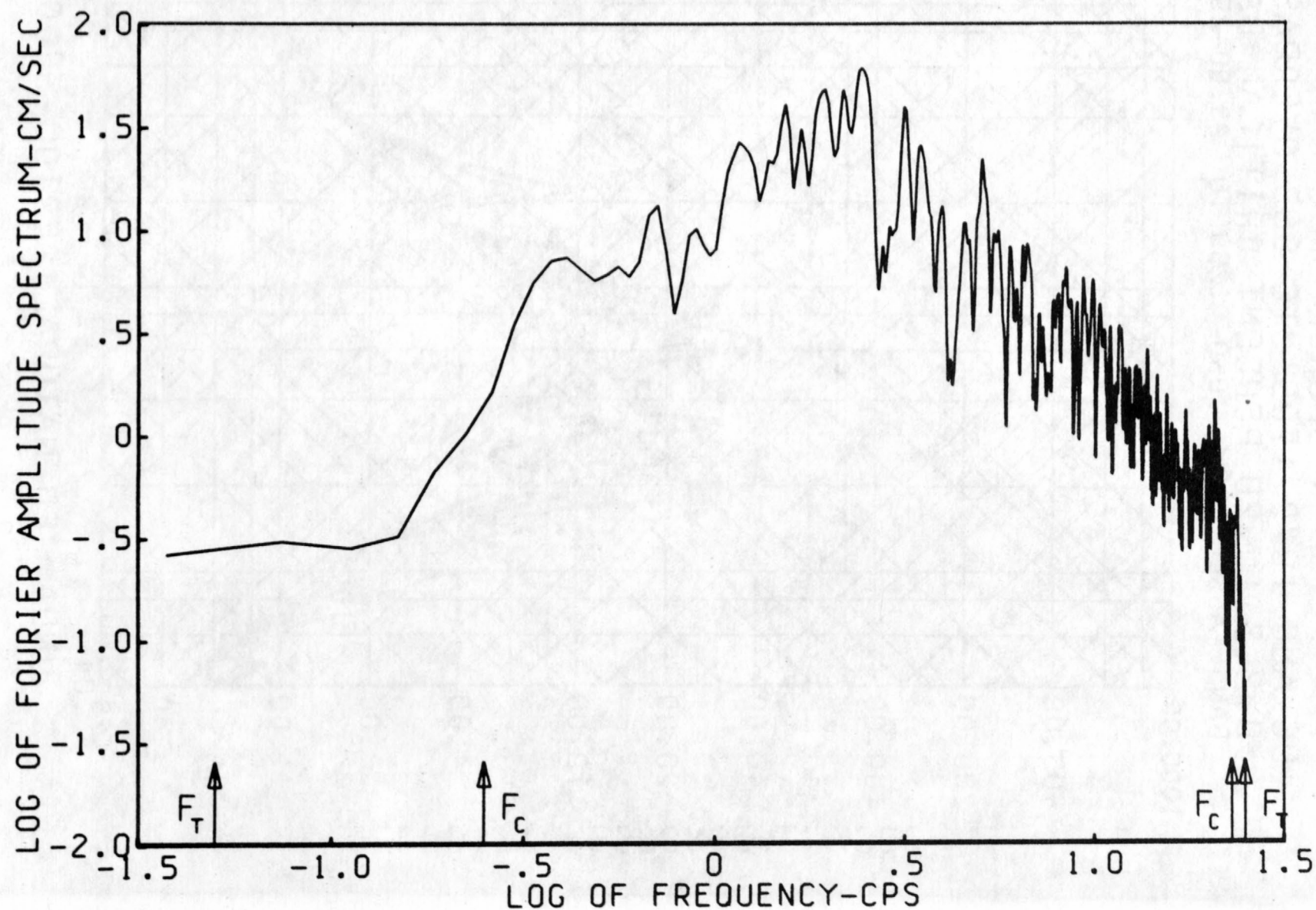
RESPONSE SPECTRA
06 AUG 1979 1705 UTC SJB OVERPASS TR 2
0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



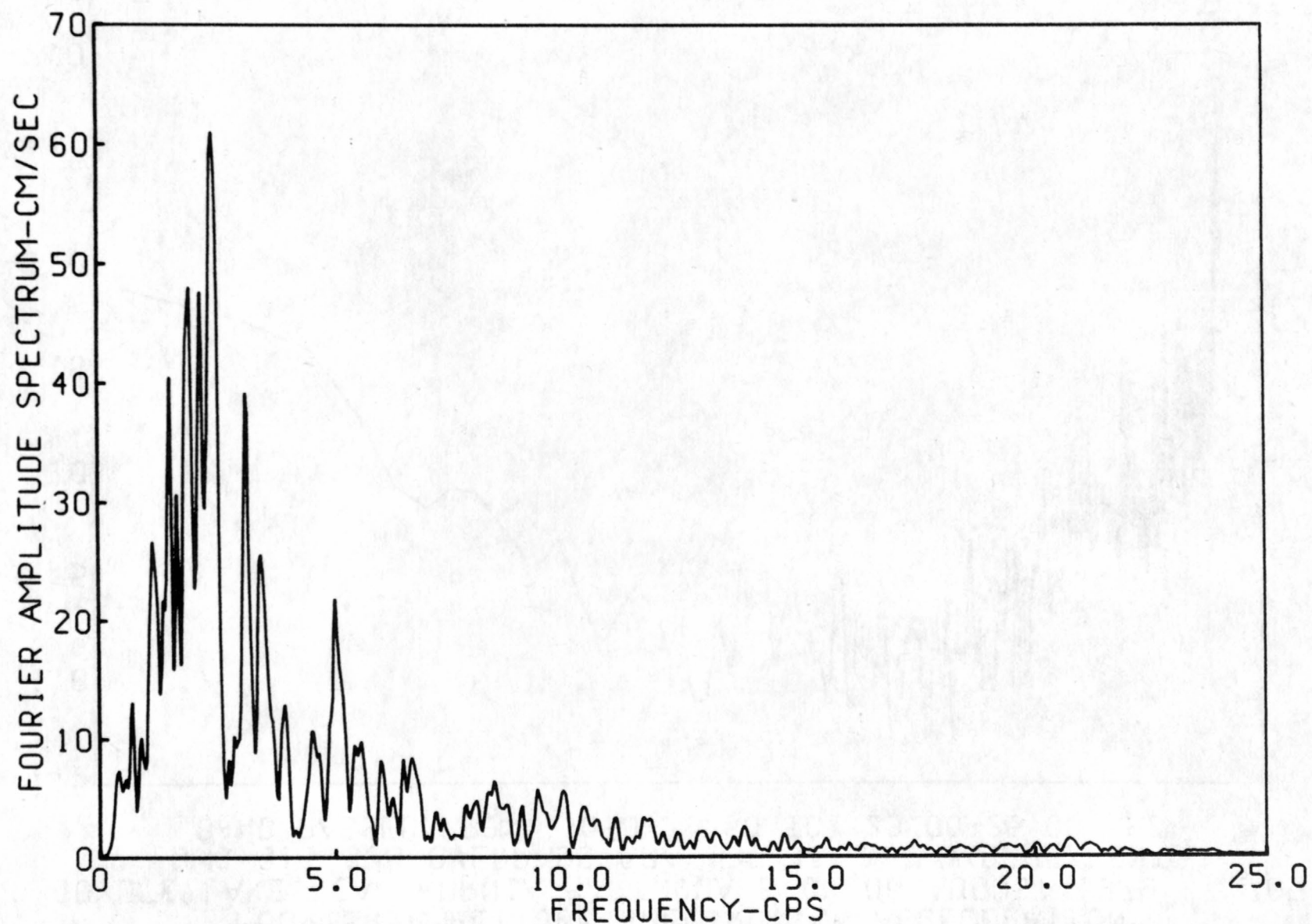
RESPONSE SPECTRA
 06 AUG 1979 1705 UTC SJB OVERPASS TR 3
 0.2,5,10,20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



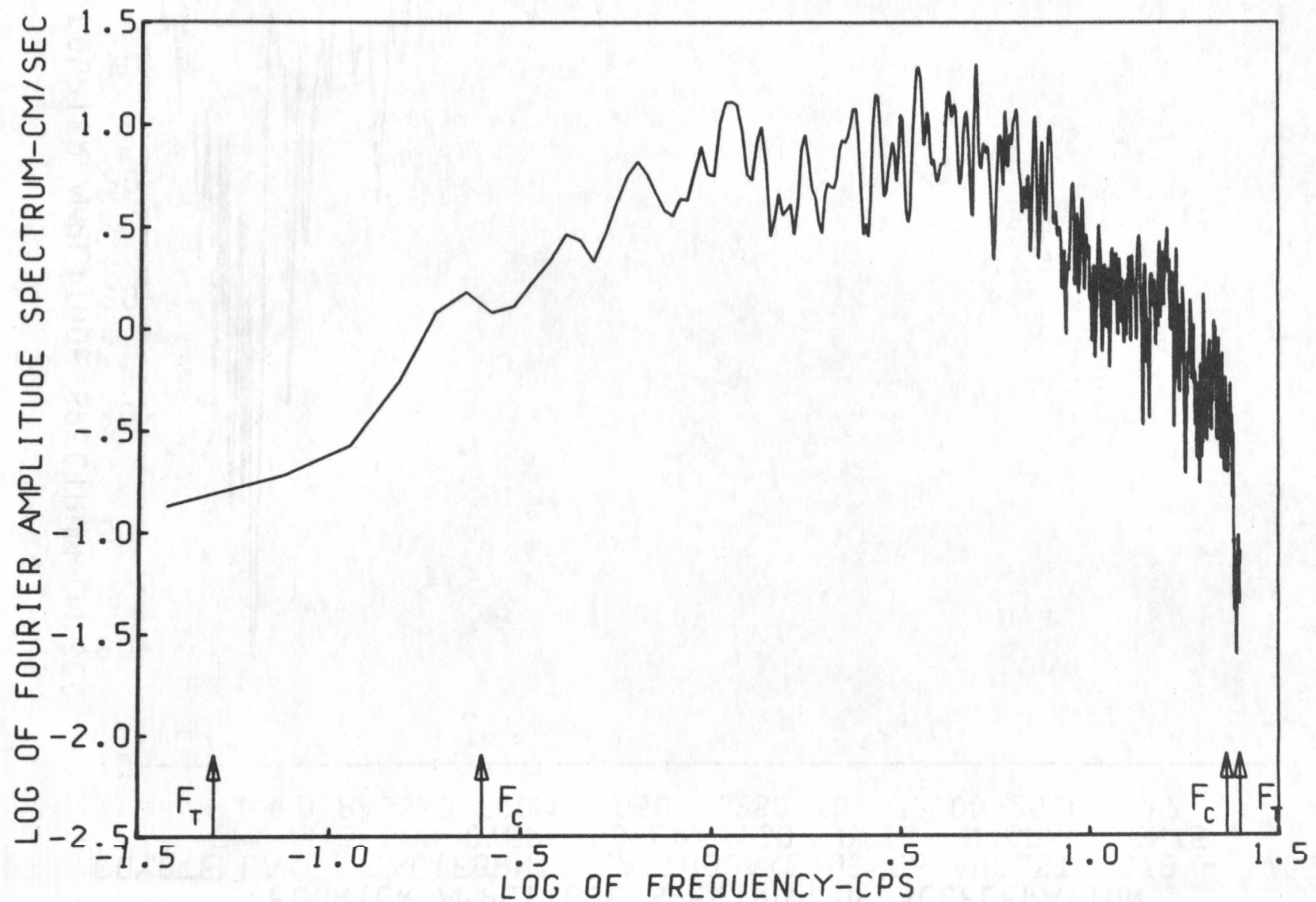
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 1 N/GRND/BENTS
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



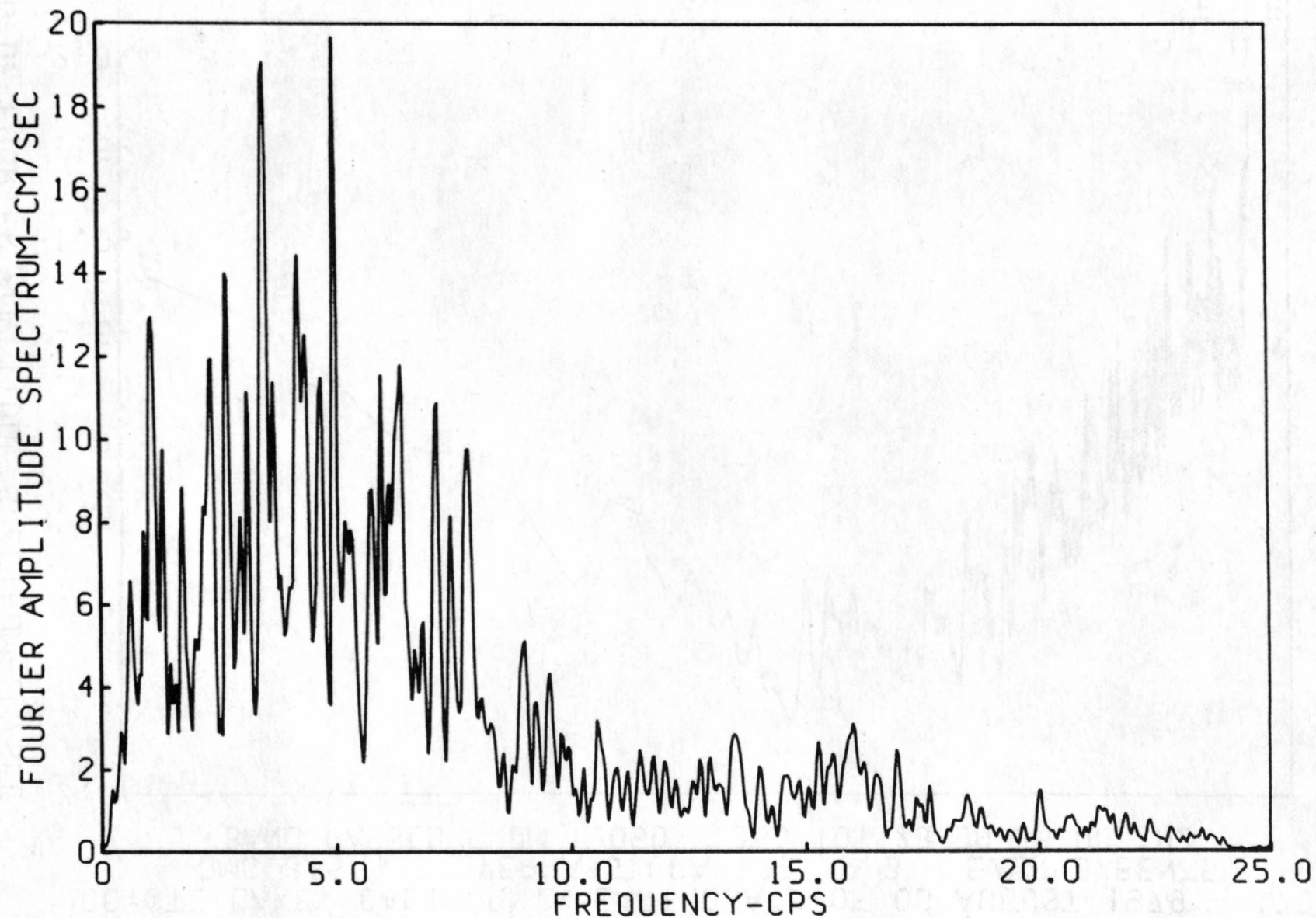
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 1 N/GRND/BENT5
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



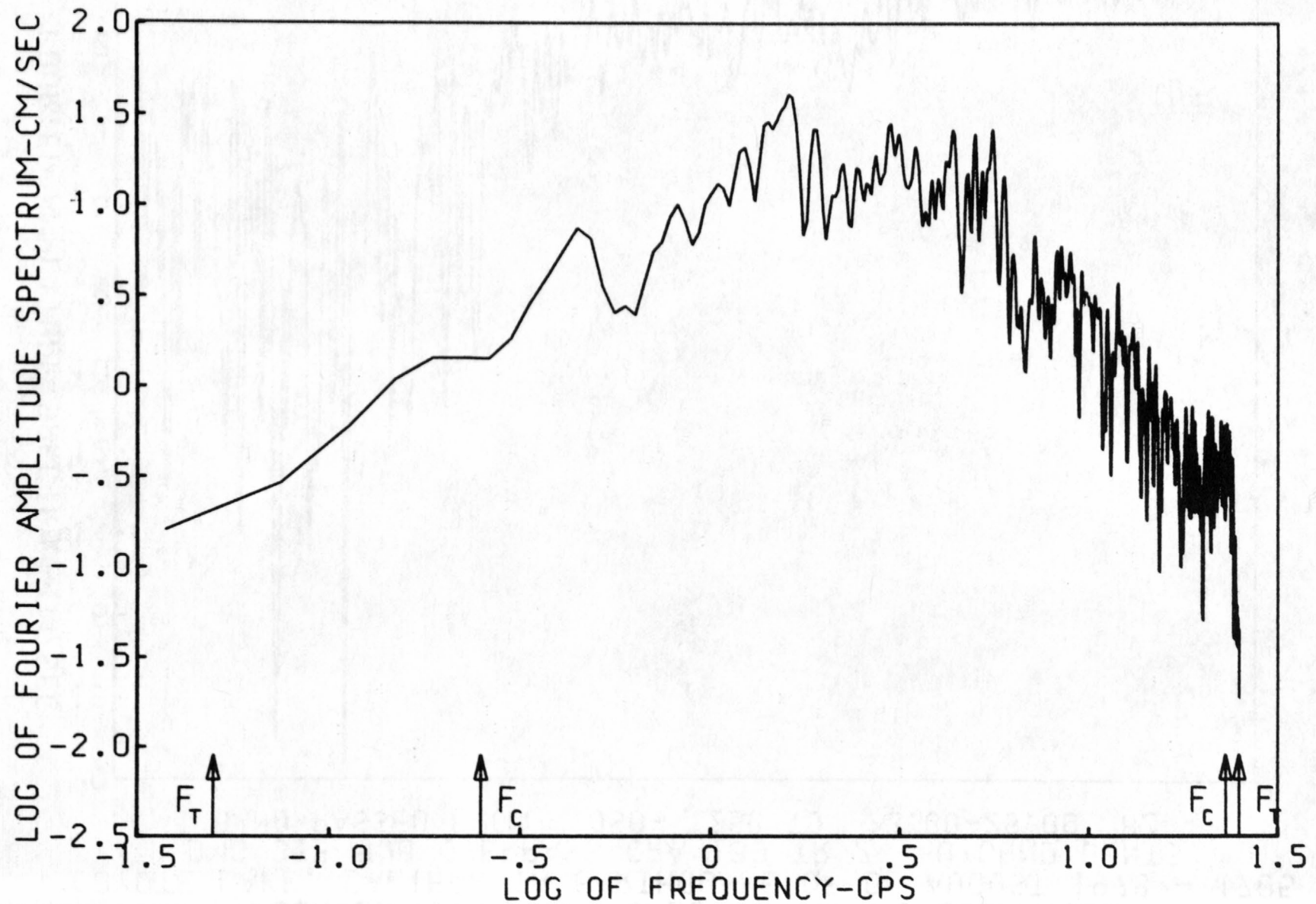
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 2 U/GRND/BENTS
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



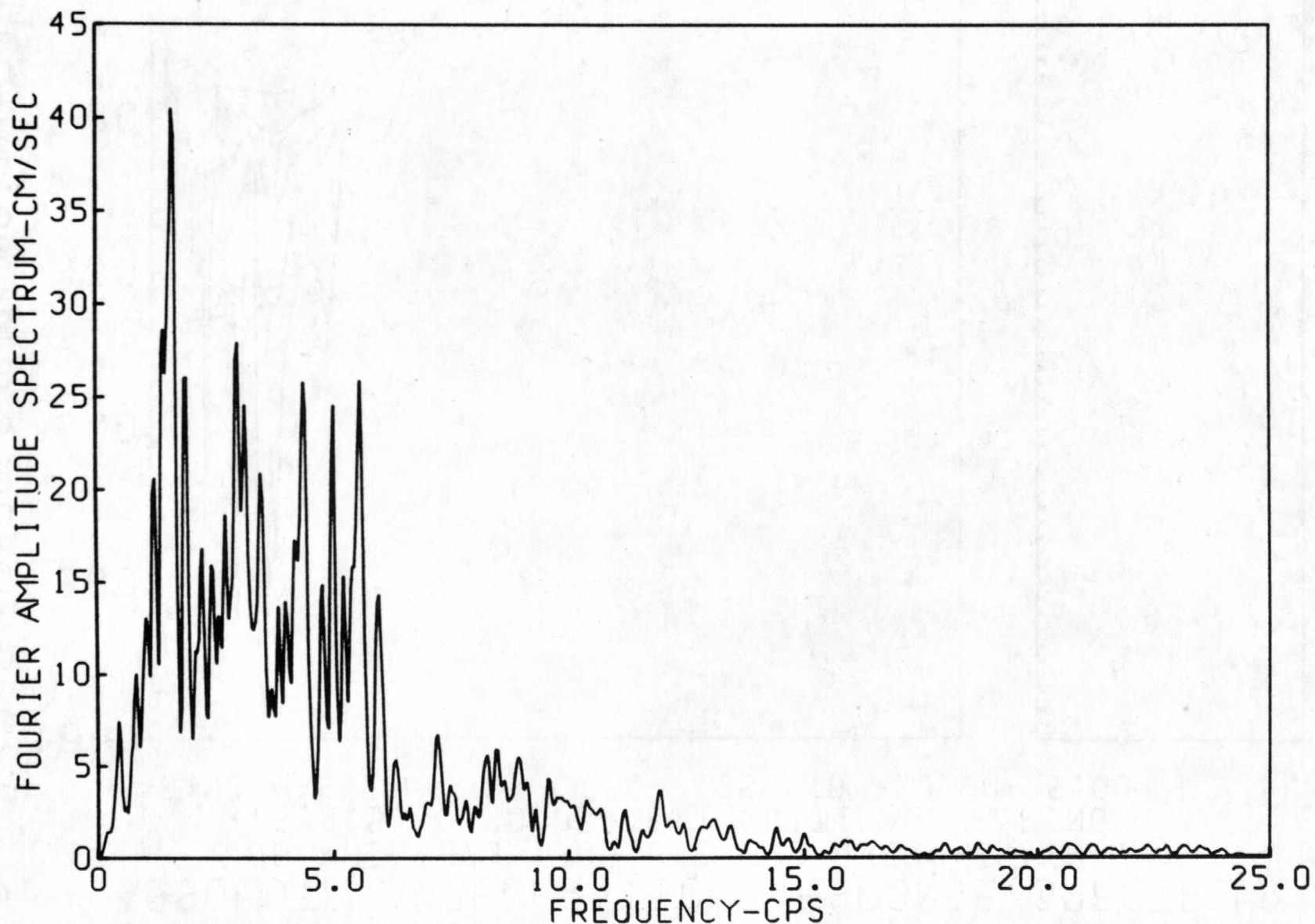
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 2 U/GRND/BENTS
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 3 E/GRND/BENT5
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 3 E/GRND/BENT5
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



ABSOLUTE ACCELERATION RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB OVERPASS TR 1

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

ACCELERATION RESPONSE-CM/SEC/SEC

1000

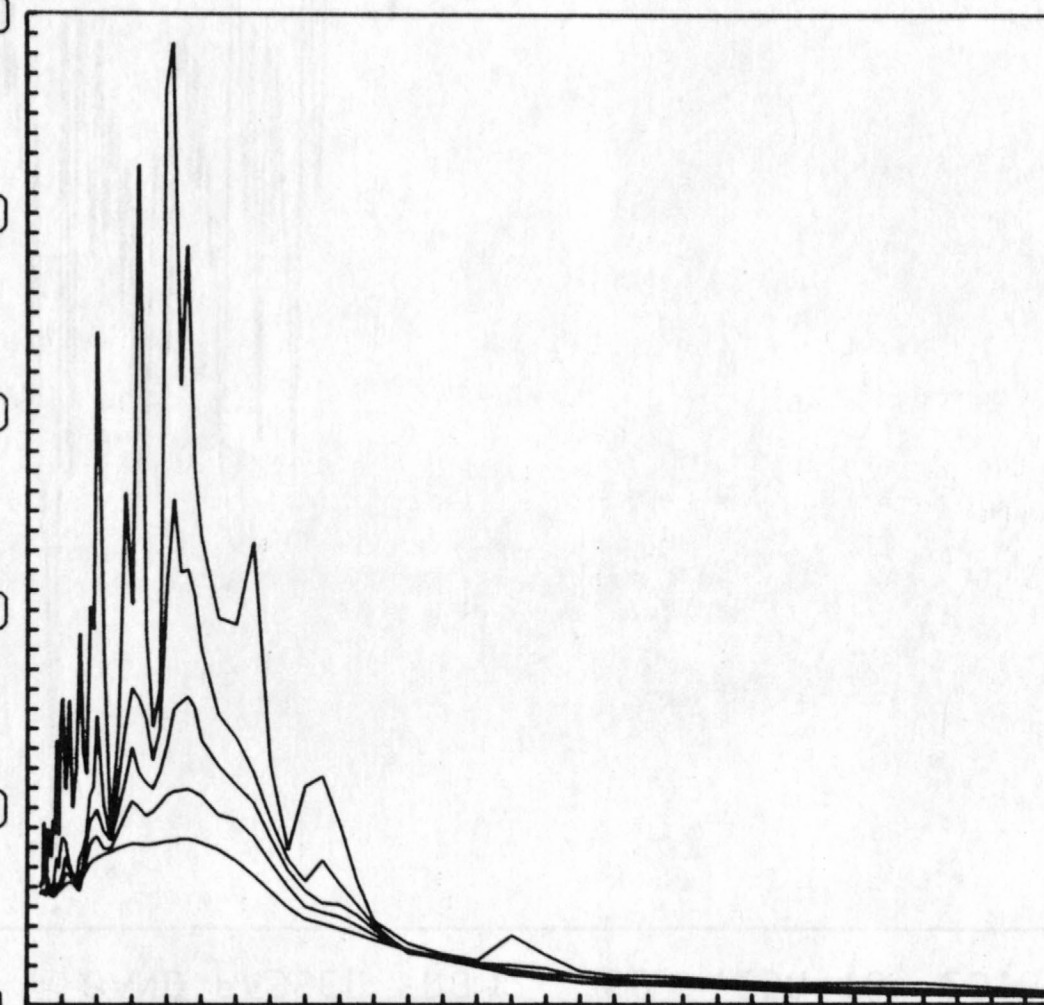
800

600

400

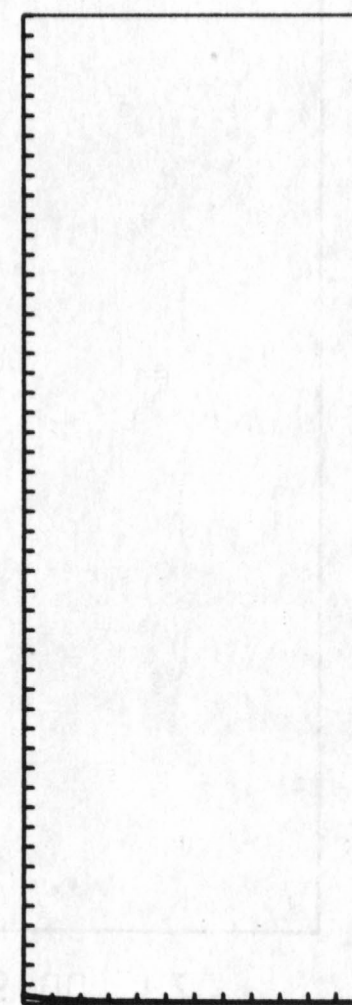
200

0



0 .5 1.0 1.5 2.0 2.5 3.0

UNDAMPED NATURAL PERIOD-SECONDS



3 7 11 15

ABSOLUTE ACCELERATION RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB OVERPASS TR 2

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

ACCELERATION RESPONSE-CM/SEC/SEC

1000

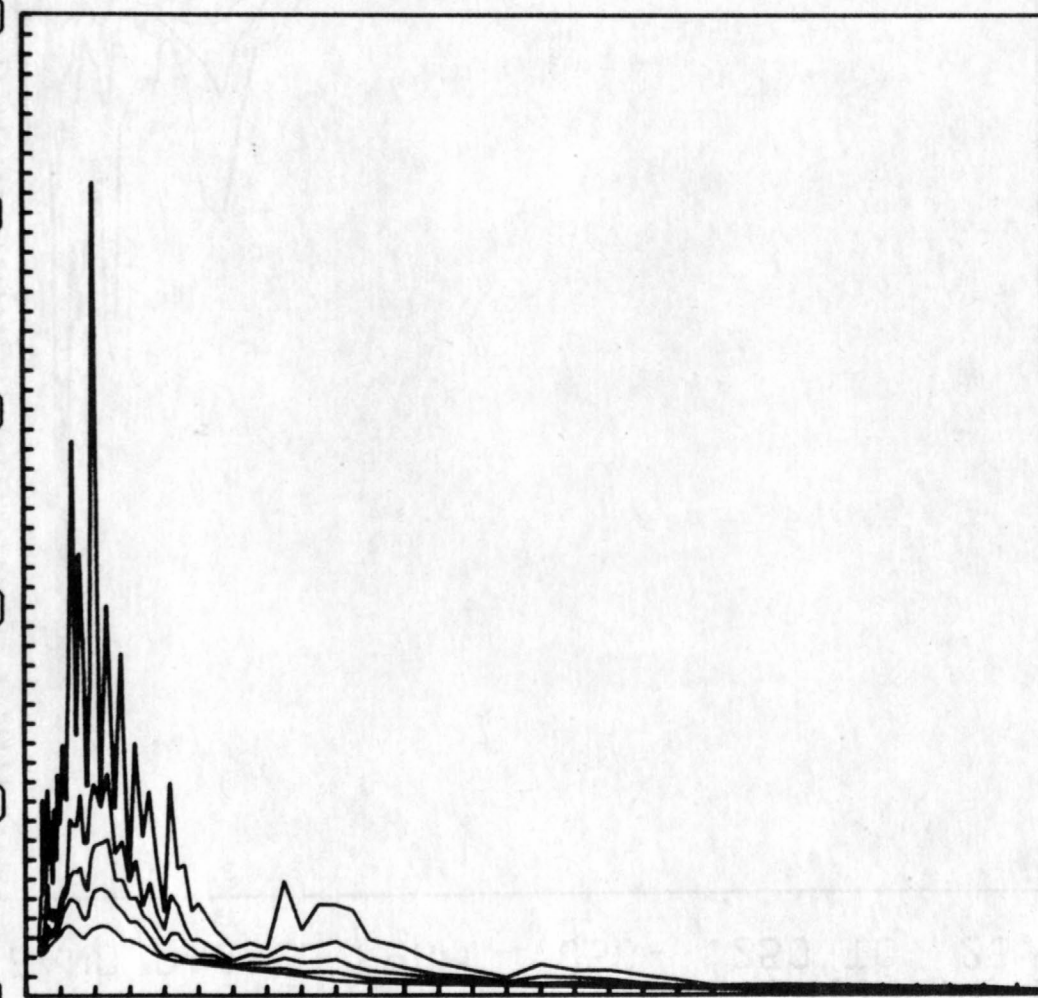
800

600

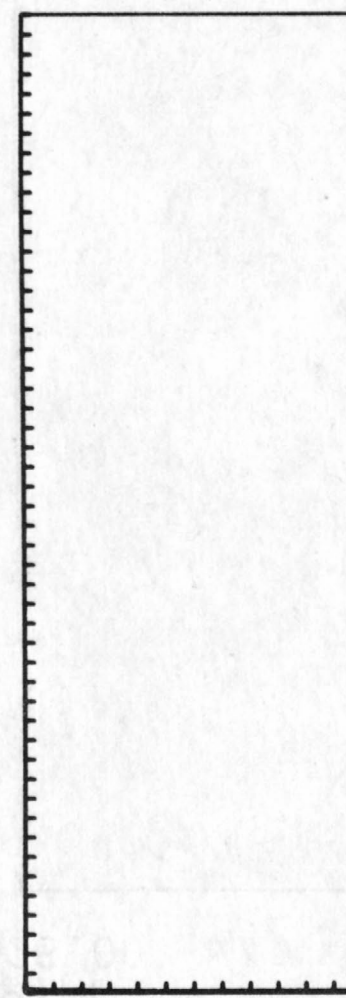
400

200

0



UNDAMPED NATURAL PERIOD-SECONDS



3 7 11 15

ABSOLUTE ACCELERATION RESPONSE SPECTRUM

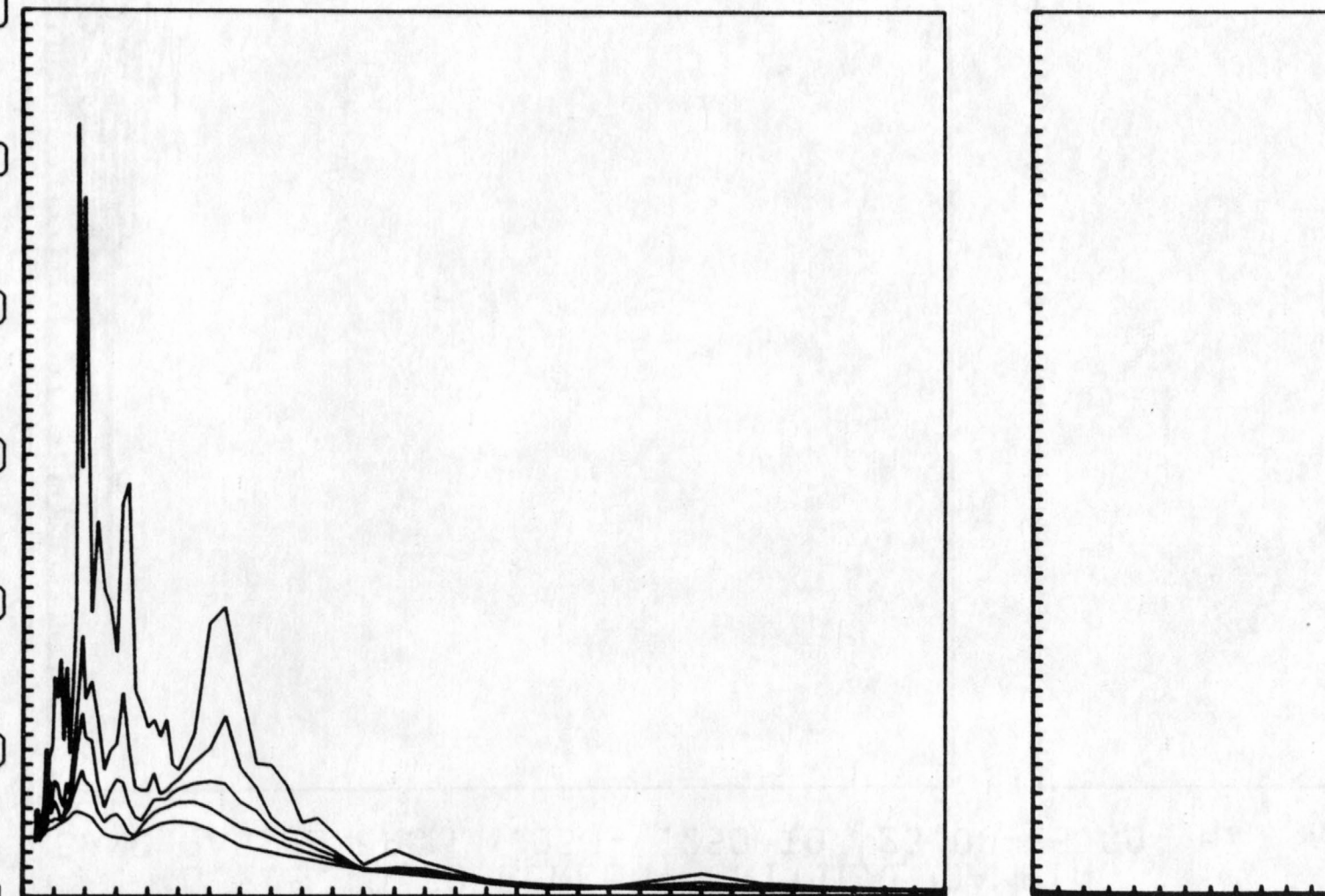
06 AUG 1979 1705 UTC SJB OVERPASS TR 3

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

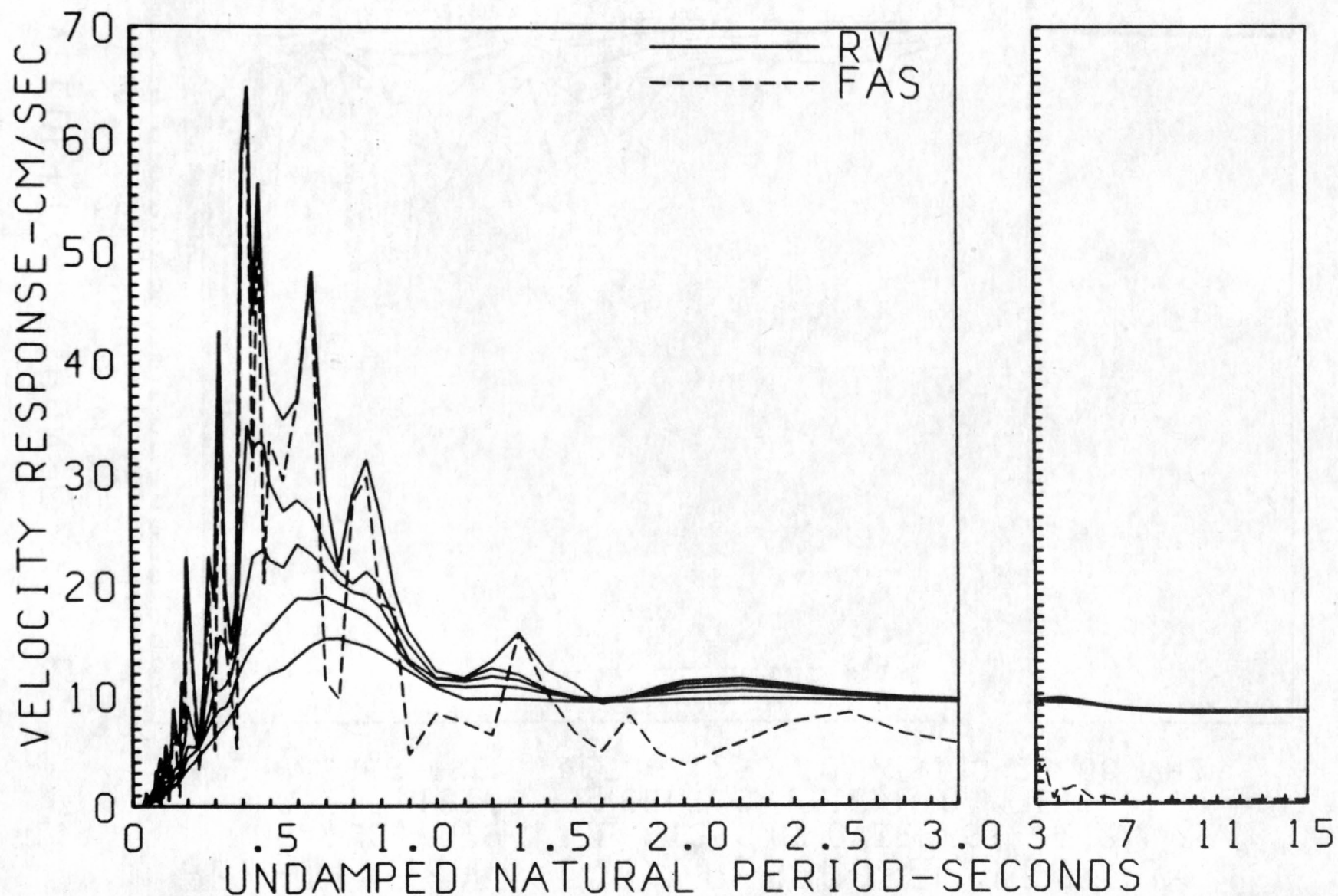
ACCELERATION RESPONSE-CM/SEC

1200
1000
800
600
400
200
0

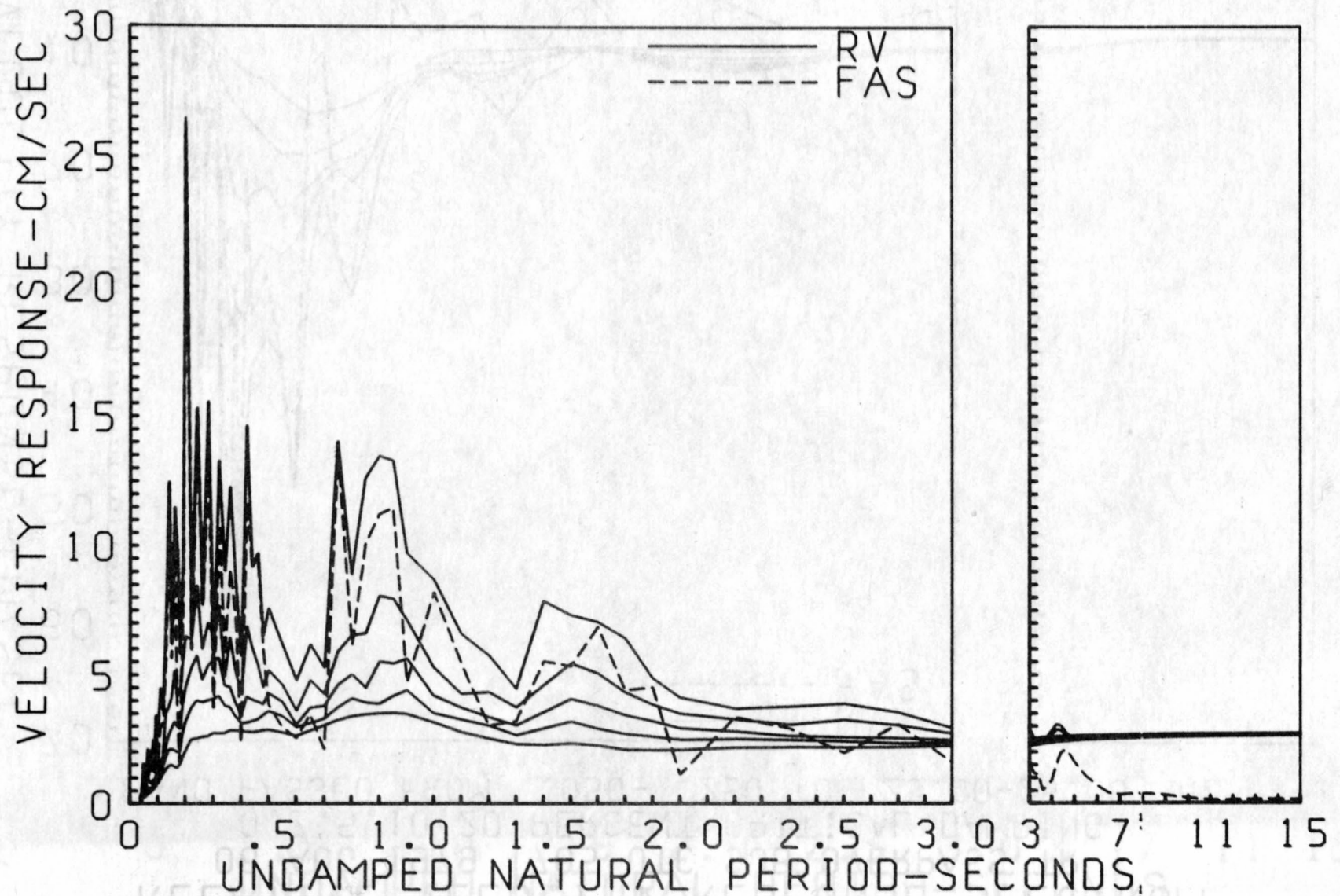


UNDAMPED NATURAL PERIOD-SECONDS

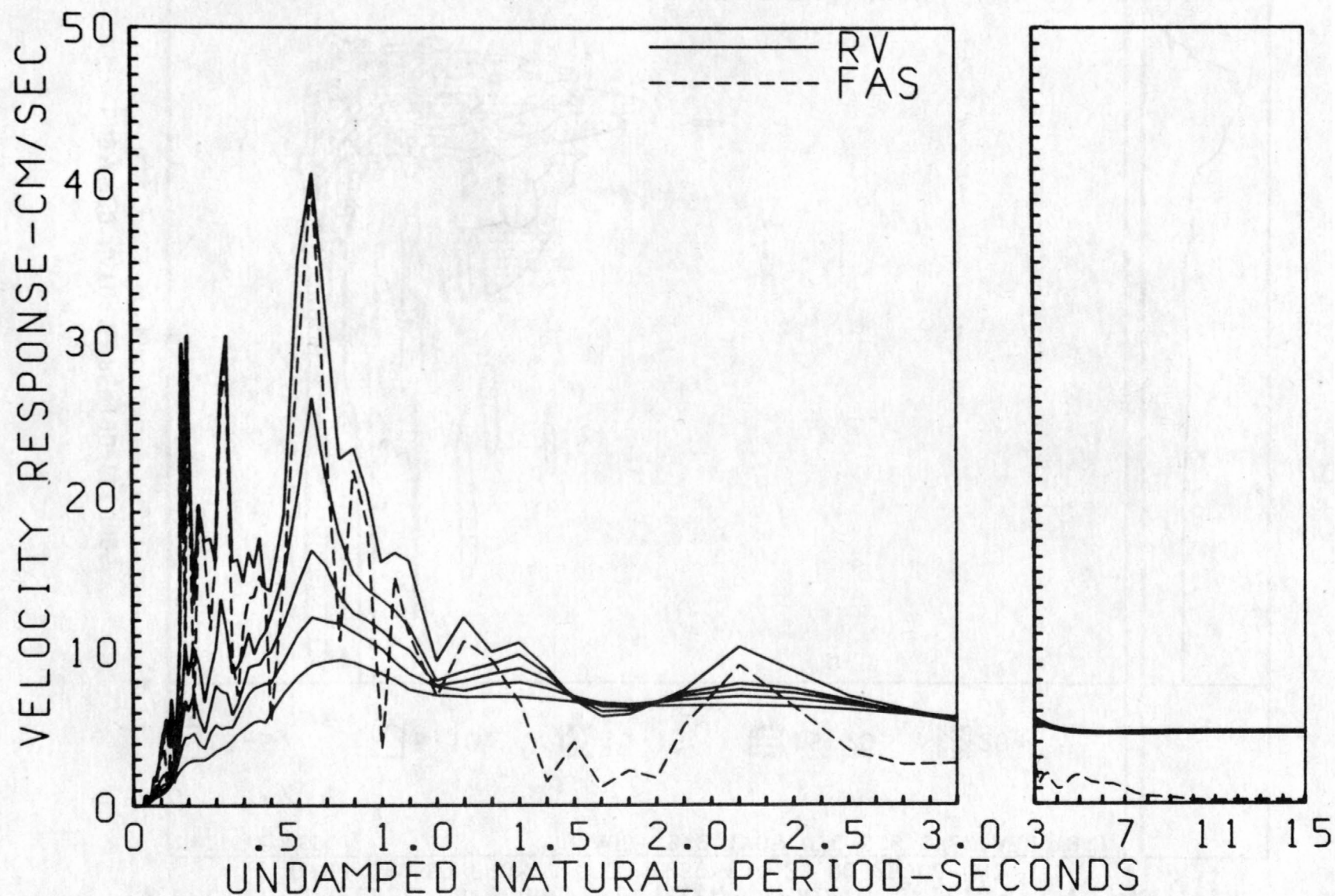
RELATIVE VELOCITY RESPONSE SPECTRUM
06 AUG 1979 1705 UTC SJB OVERPASS TR 1
0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



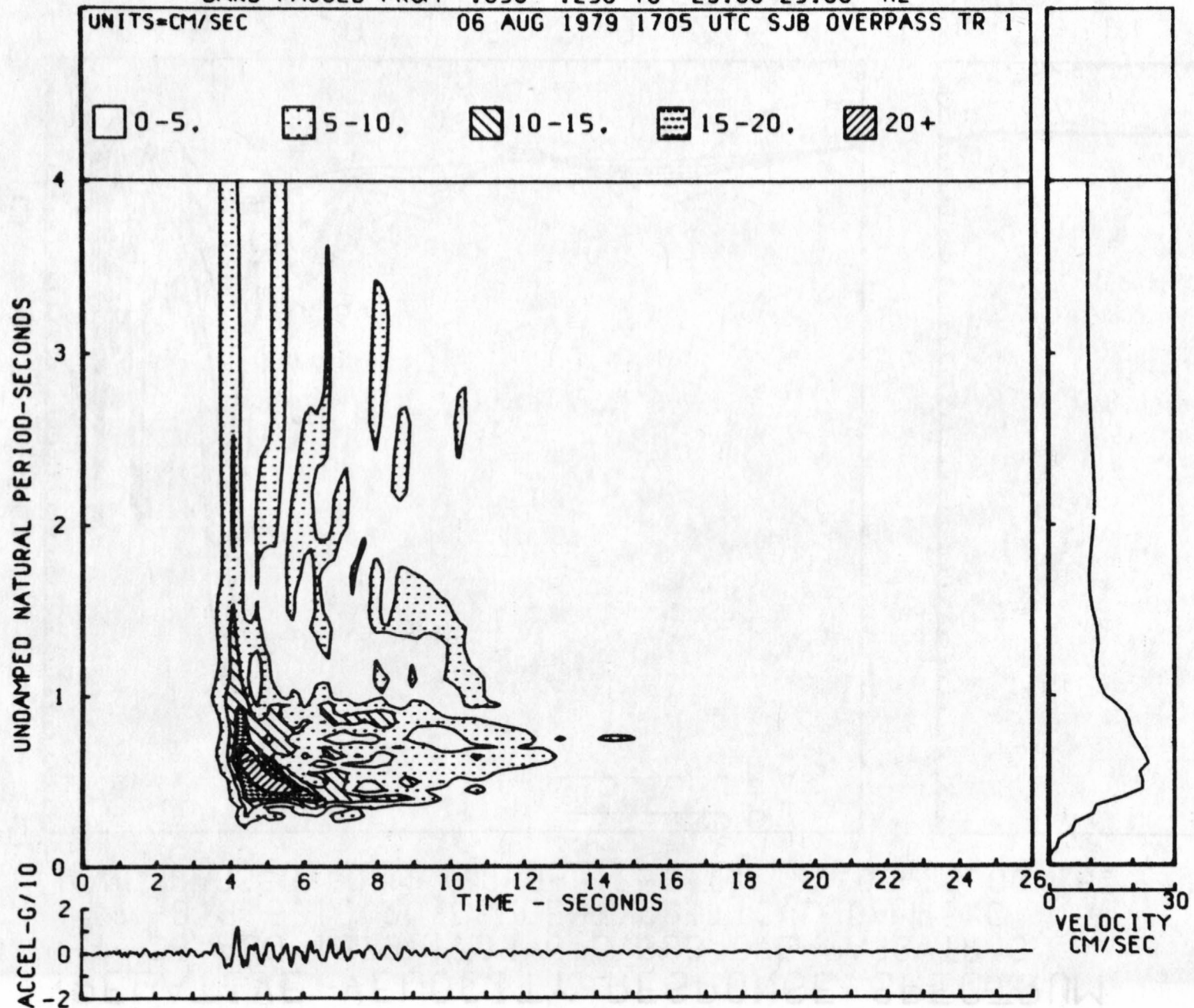
RELATIVE VELOCITY RESPONSE SPECTRUM
 06 AUG 1979 1705 UTC SJB OVERPASS TR 2
 0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



RELATIVE VELOCITY RESPONSE SPECTRUM
 06 AUG 1979 1705 UTC SJB OVERPASS TR 3
 0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



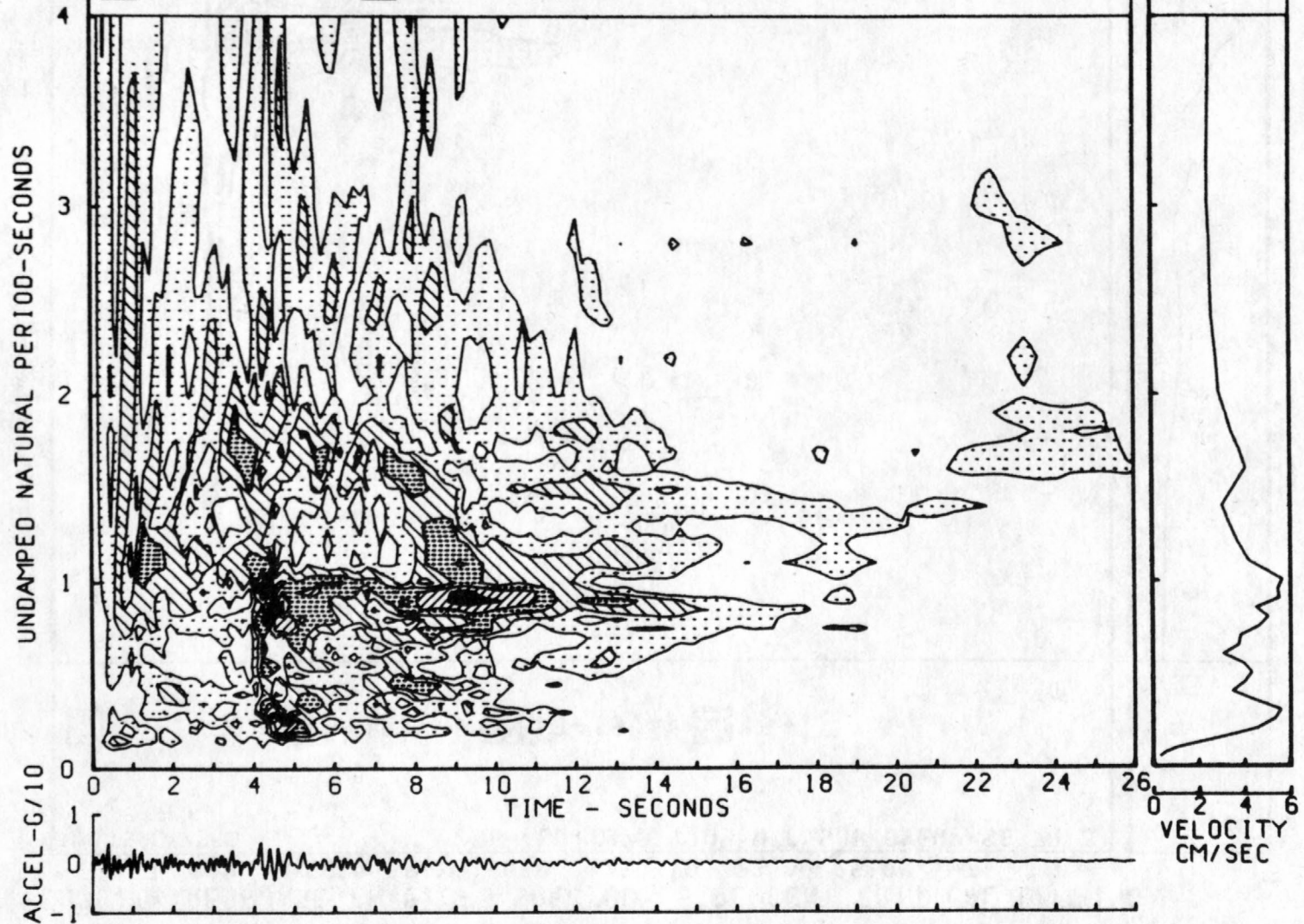
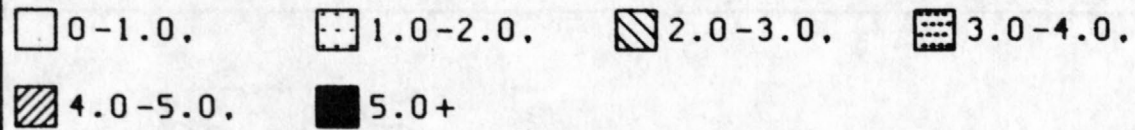
VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



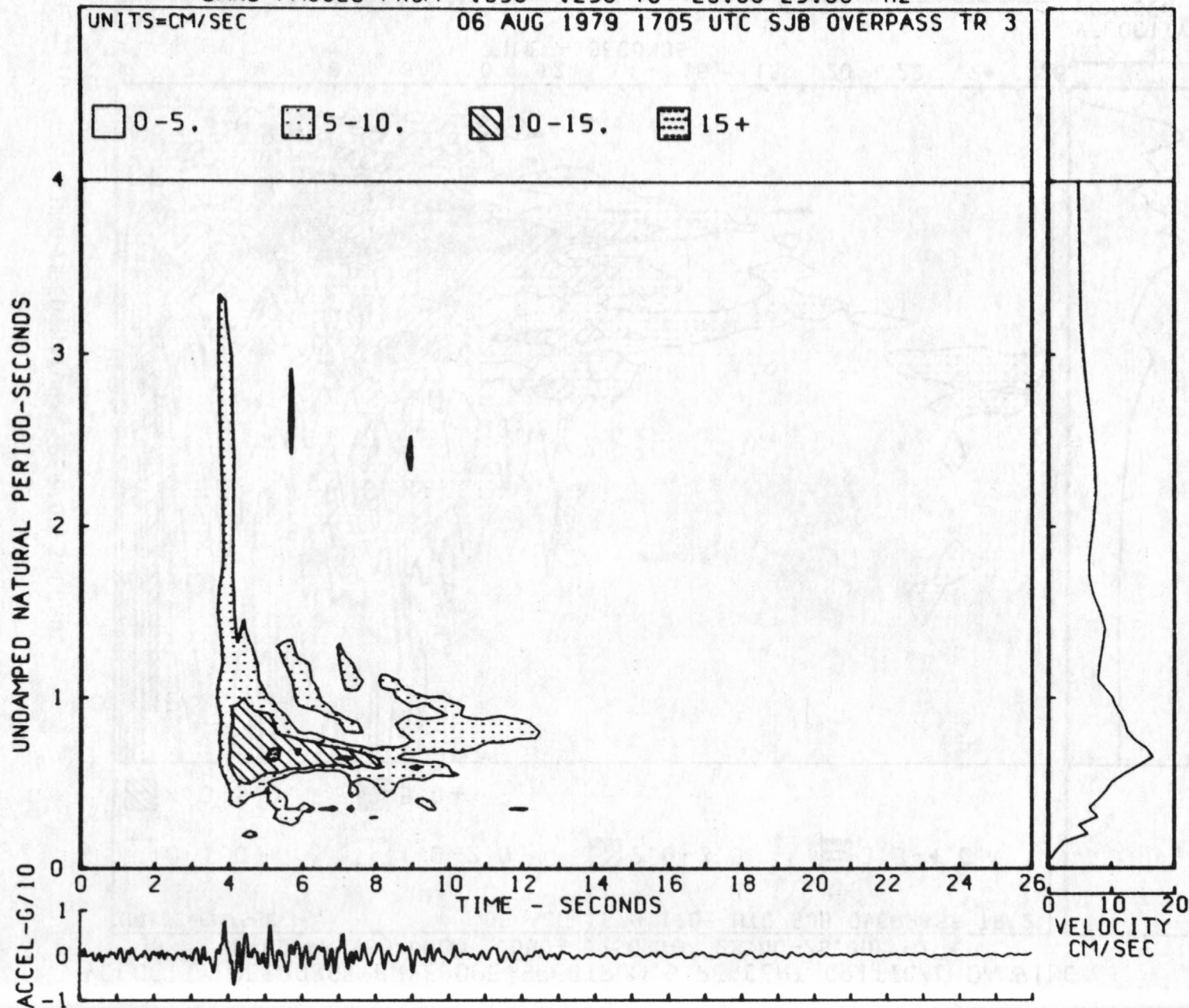
VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

UNITS=CM/SEC

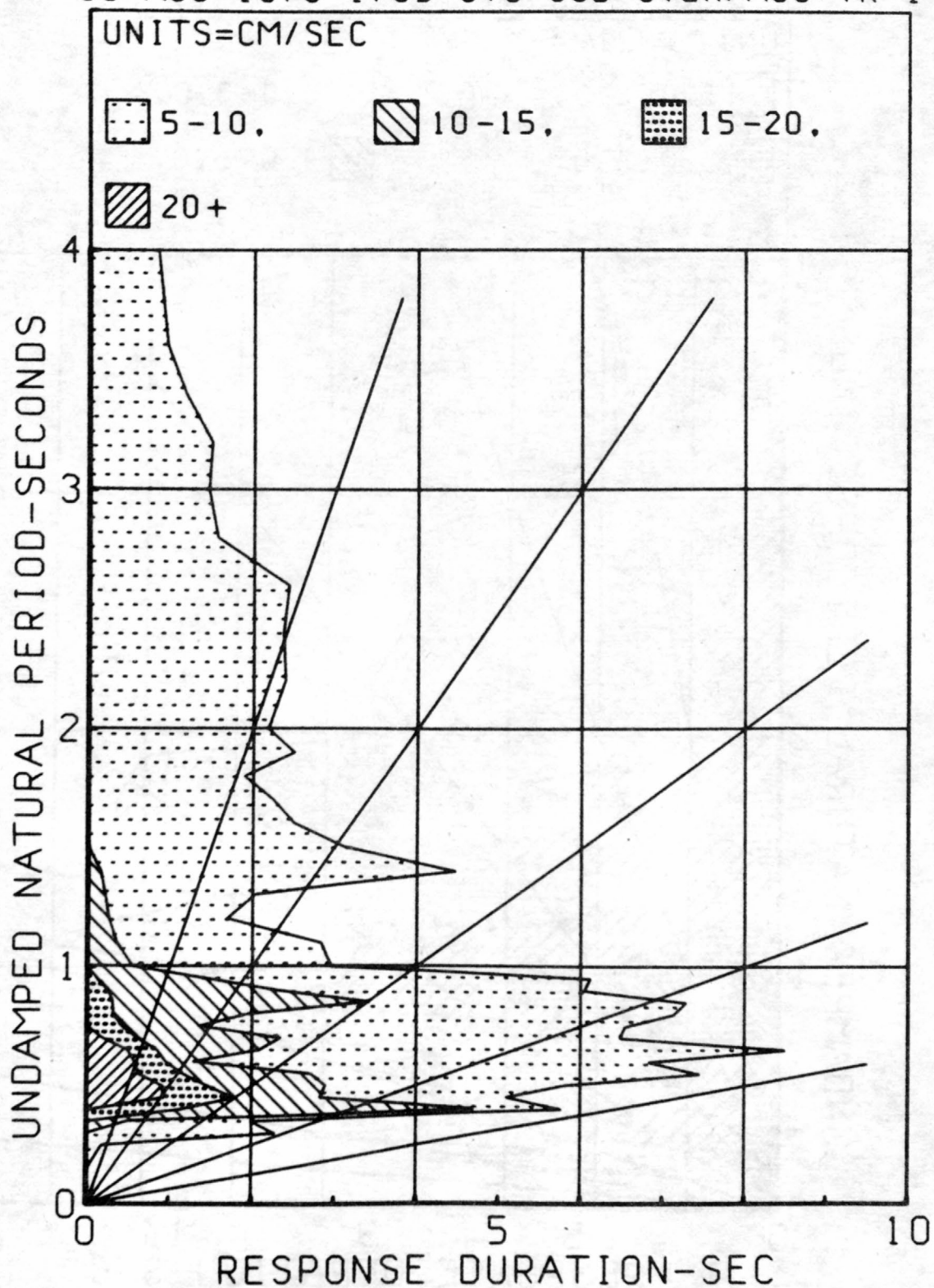
06 AUG 1979 1705 UTC SJB OVERPASS TR 2



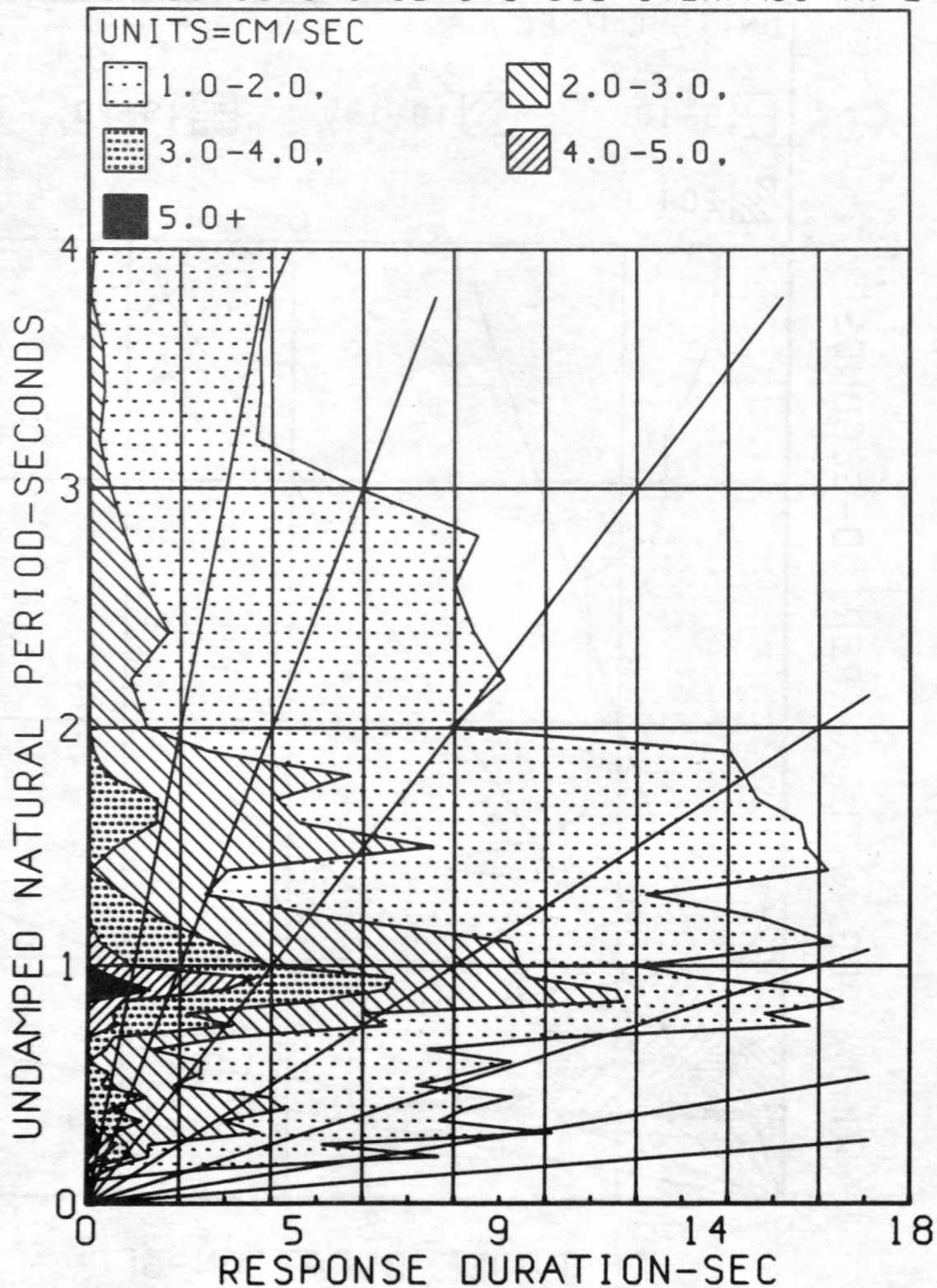
VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



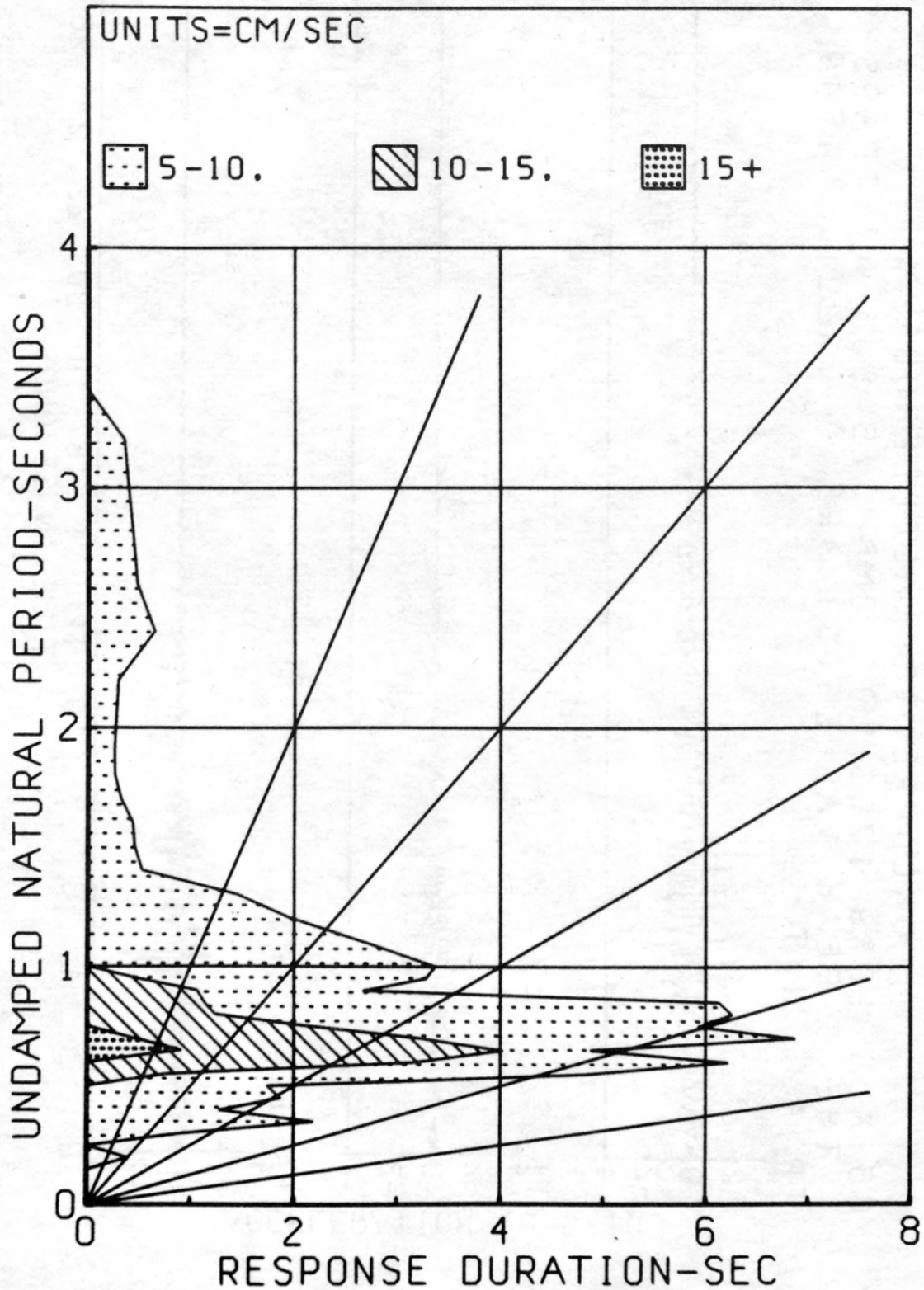
DURATION SPECTRUM OF THE VELOCITY
RESPONSE ENVELOPE, 5 PERCENT DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
06 AUG 1979 1705 UTC SJB OVERPASS TR 1



DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 2



DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 3

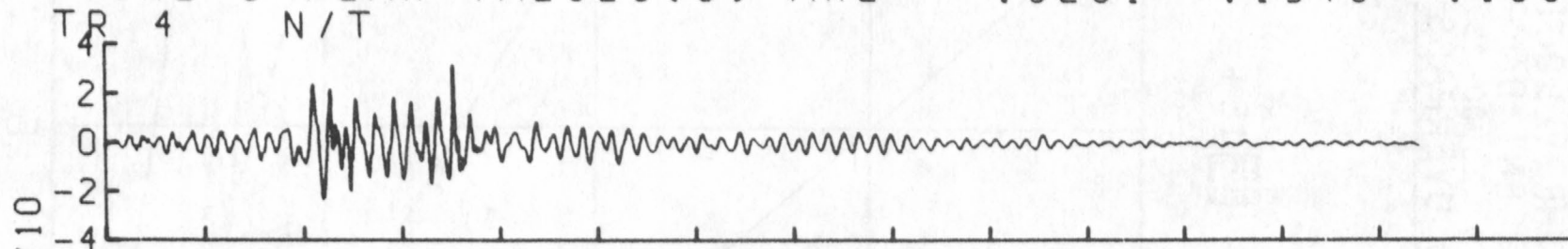


UNCORRECTED ACCELEROGRAM

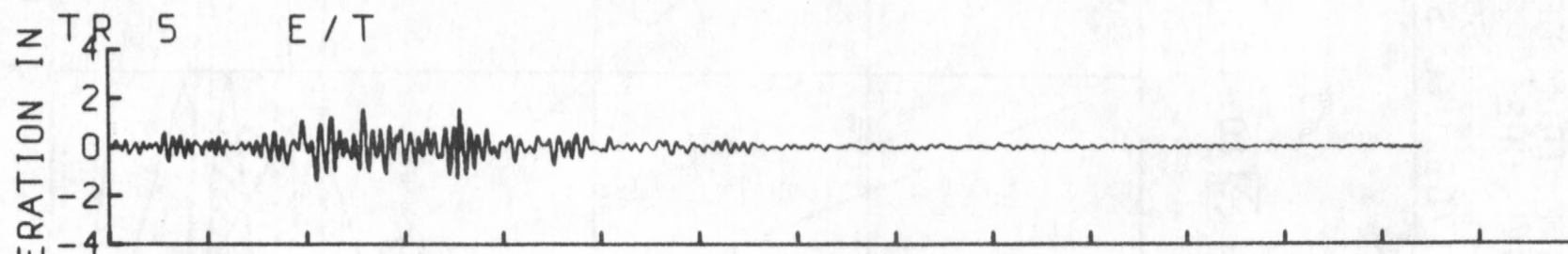
06 AUG 1979 1705 UTC DMG 315 SJB OVERPASS CRA 139

THE 3 PEAK VALUES(G) ARE .3201 .1549 .1961

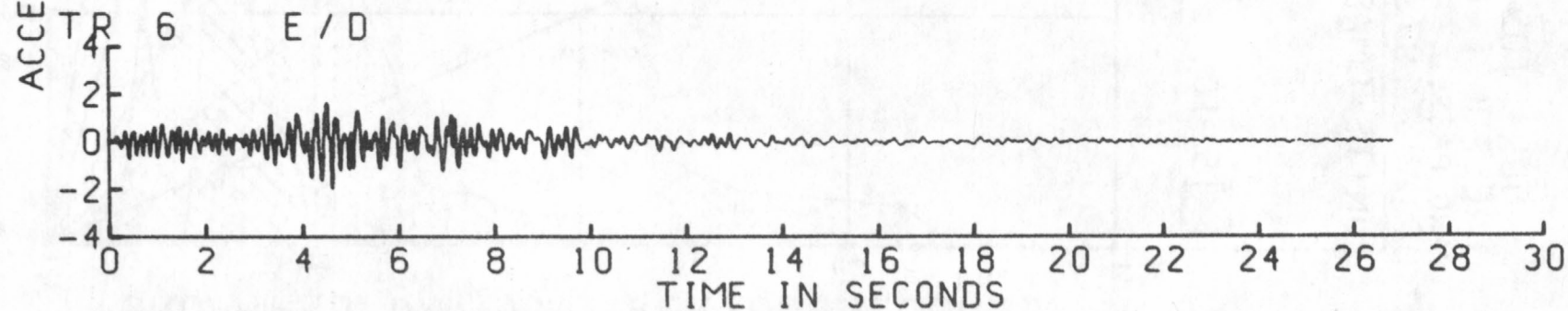
TR 4 N/T



TR 5 E/T



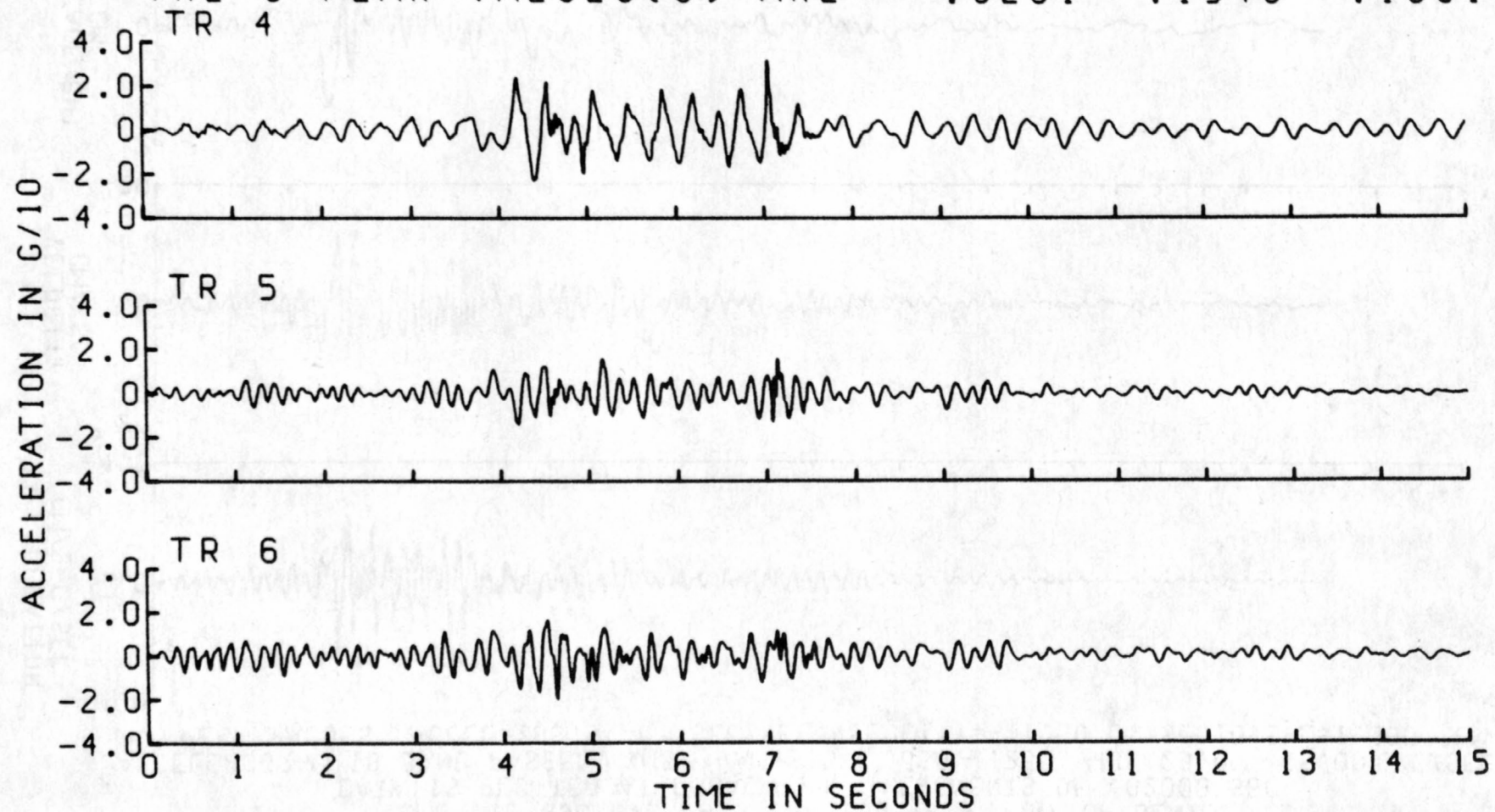
TR 6 E/D



UNCORRECTED ACCELEROGRAM

06 AUG 1979 1705 UTC DMG 315 SJB OVERPASS CRA 139

THE 3 PEAK VALUES(G) ARE .3201 .1549 .1961



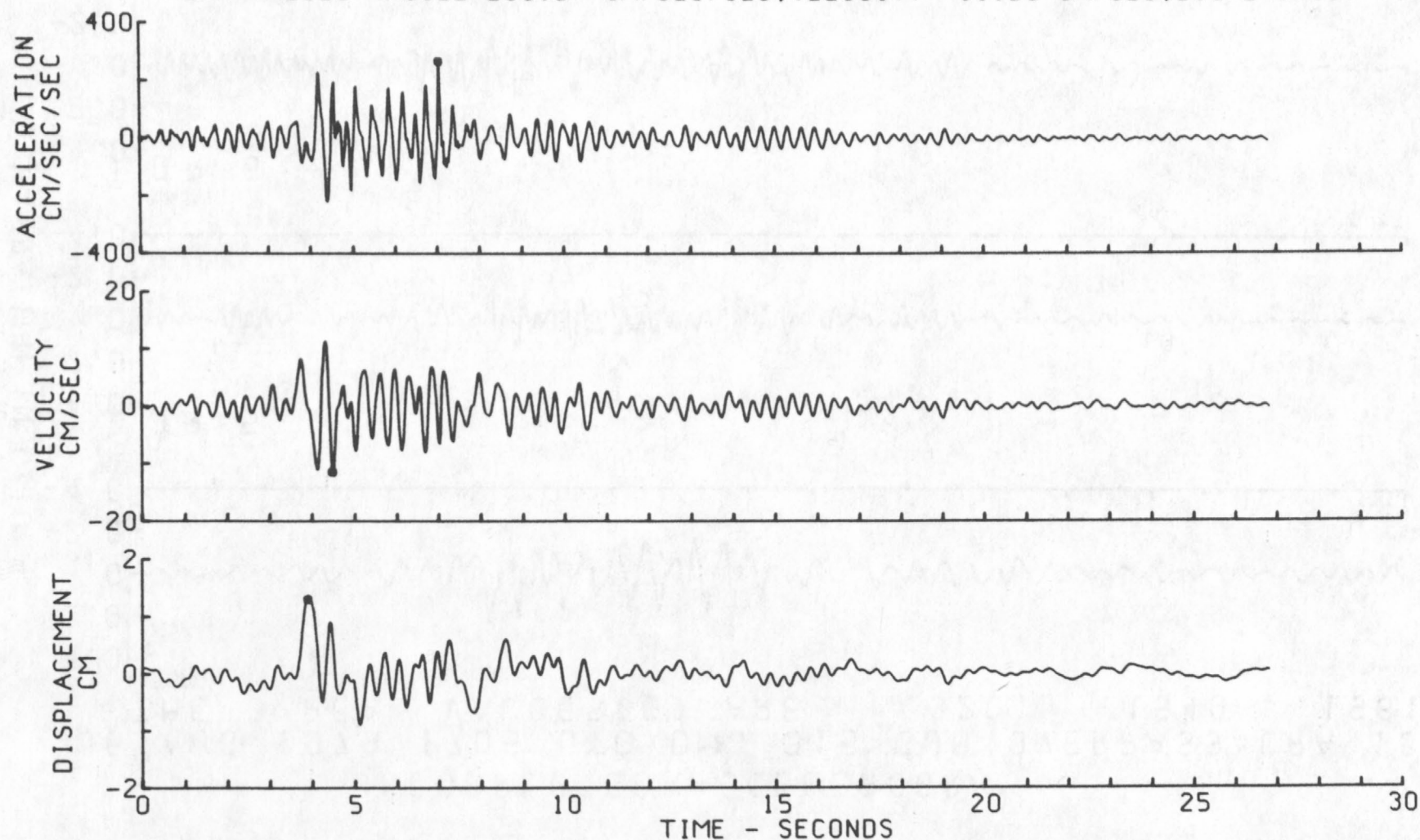
CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705

DMG 315 SJB OVERPASS CRA 139 TR 4 N/TOP/BENT5

DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC

ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC

• PEAK VALUES ACCEL=266.5 CM/SEC/SEC, VELOCITY=-11.50 CM/SEC, DISPL=1.300 CM



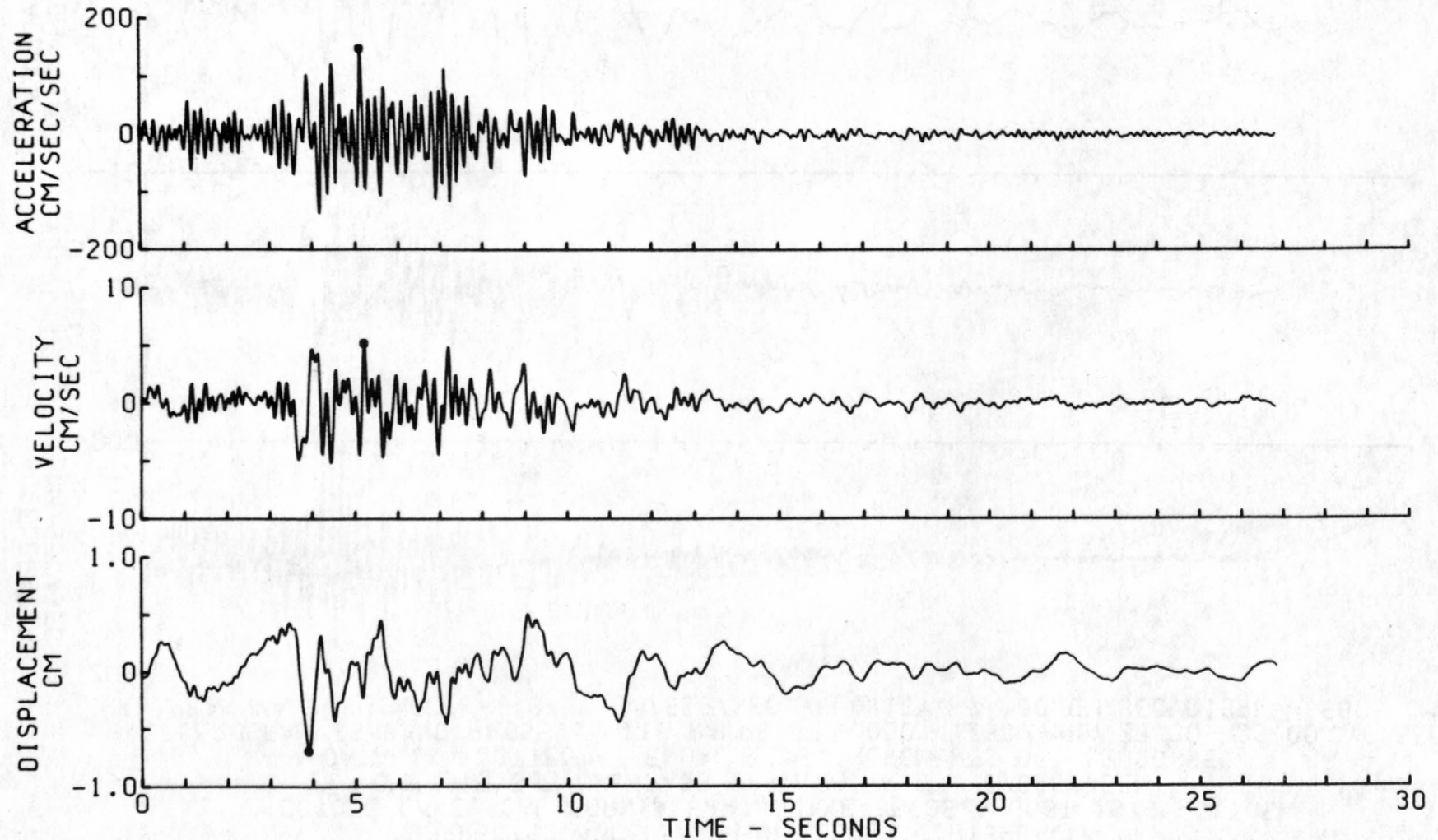
CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705

DMG 315 SJB OVERPASS CRA 139 TR 5 E/TOP/BENT5

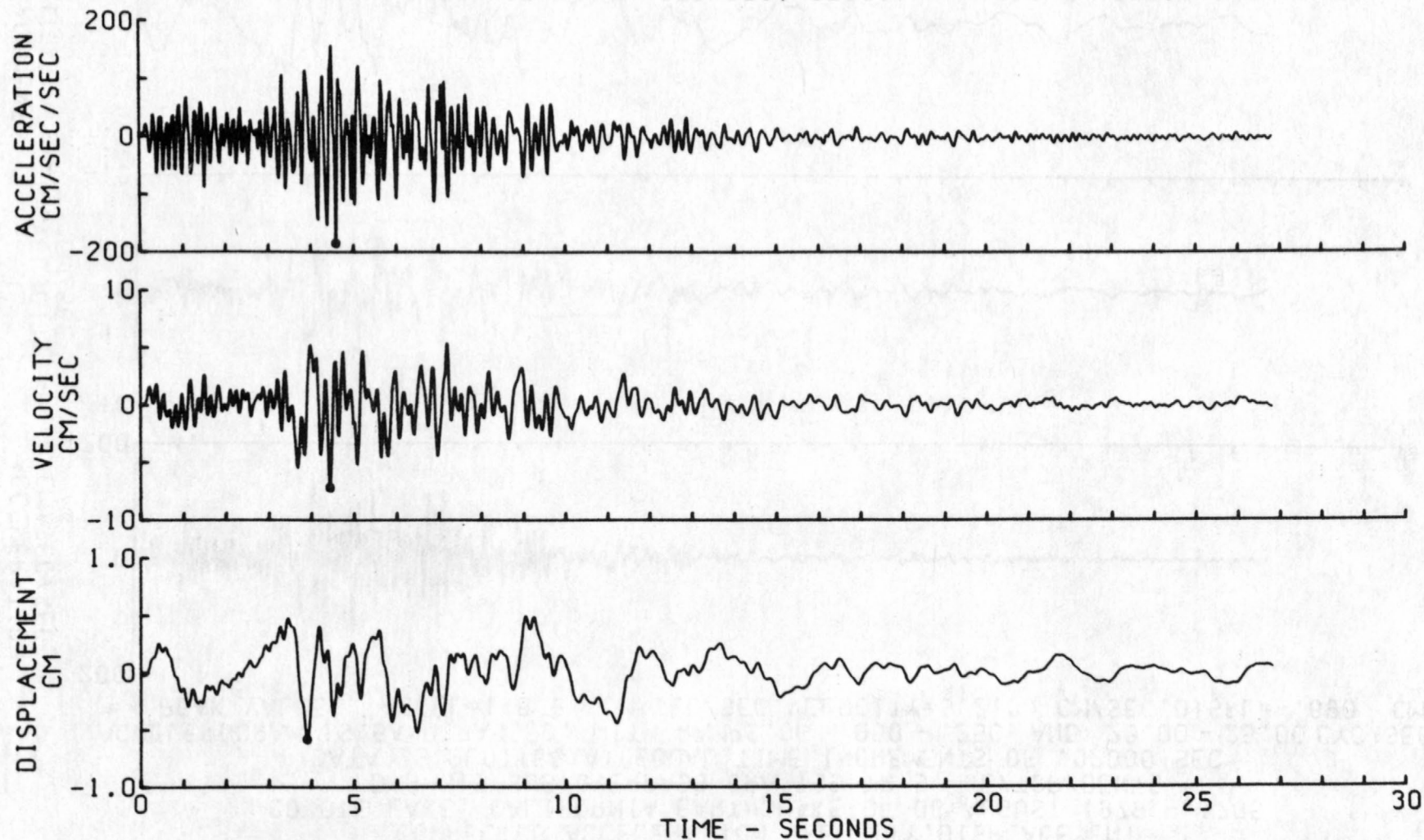
DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC

ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC

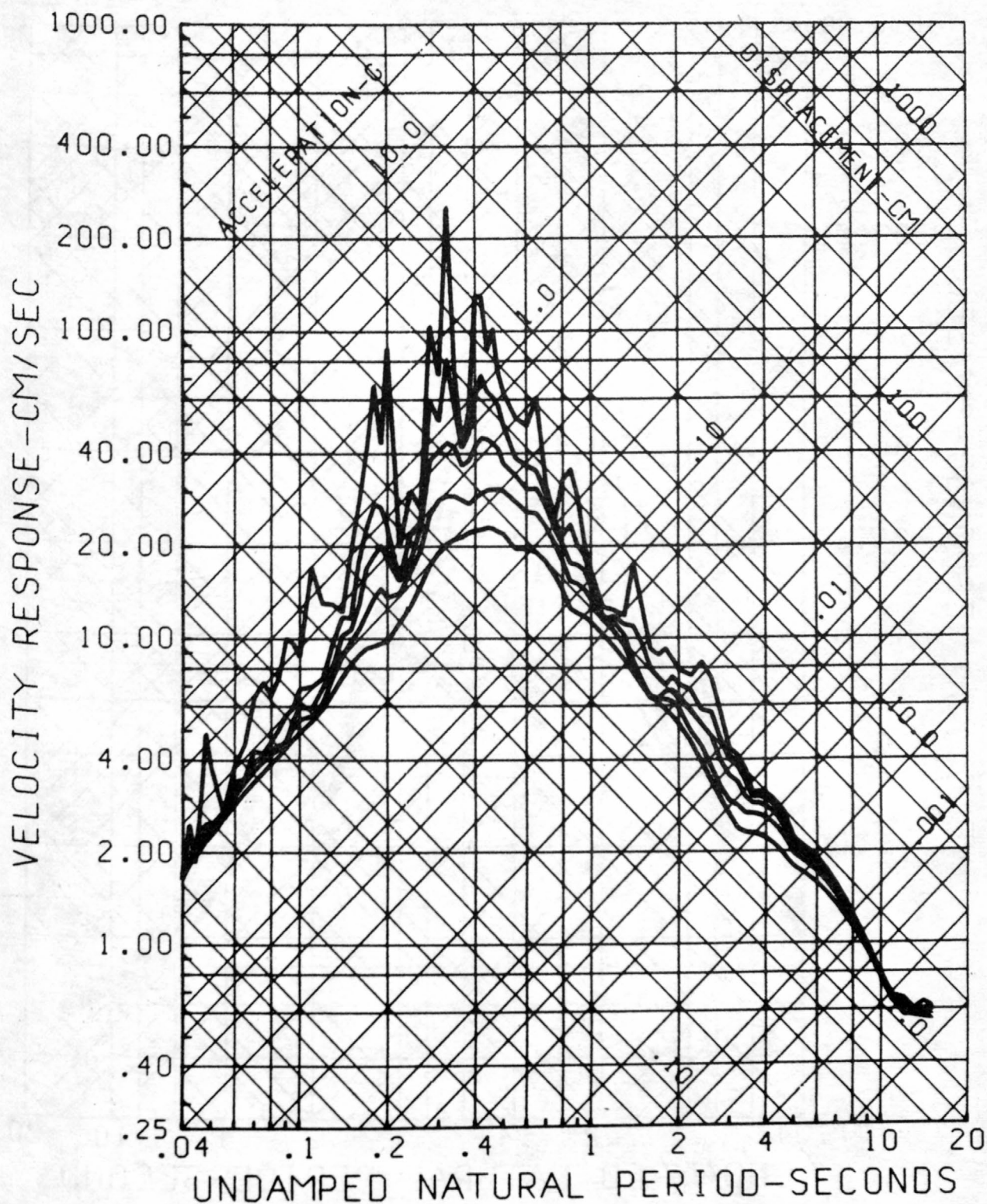
• PEAK VALUES ACCEL=148.9 CM/SEC/SEC, VELOCITY=5.210 CM/SEC, DISPL=-.690 CM



CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 6 E/DECK/BENT5
DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC
ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC
• PEAK VALUES ACCEL=-184.7 CM/SEC/SEC, VELOCITY=-7.180 CM/SEC, DISPL=-.580 CM



RESPONSE SPECTRA
 06 AUG 1979 1705 UTC SJB OVERPASS TR 4
 0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

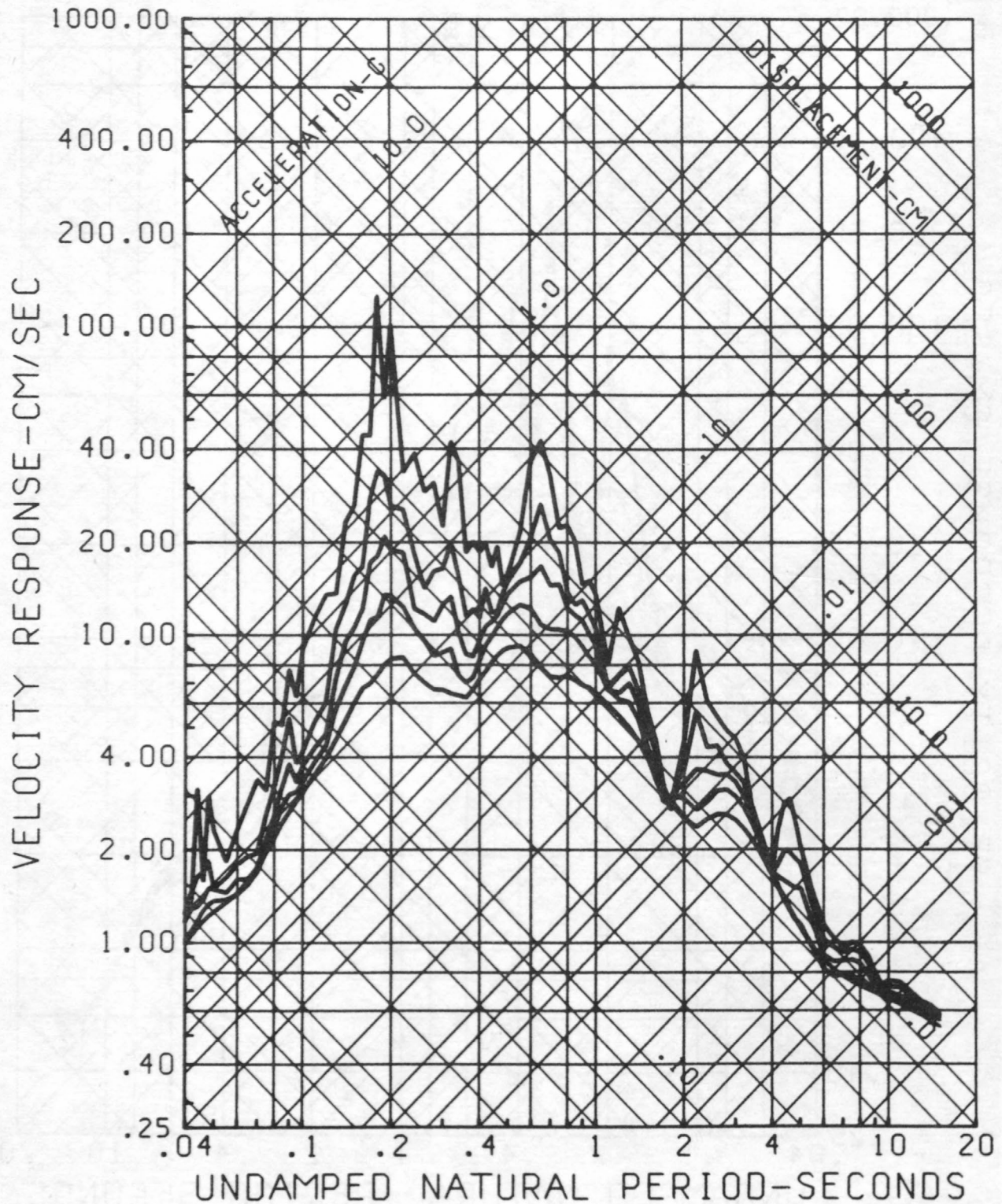


RESPONSE SPECTRA

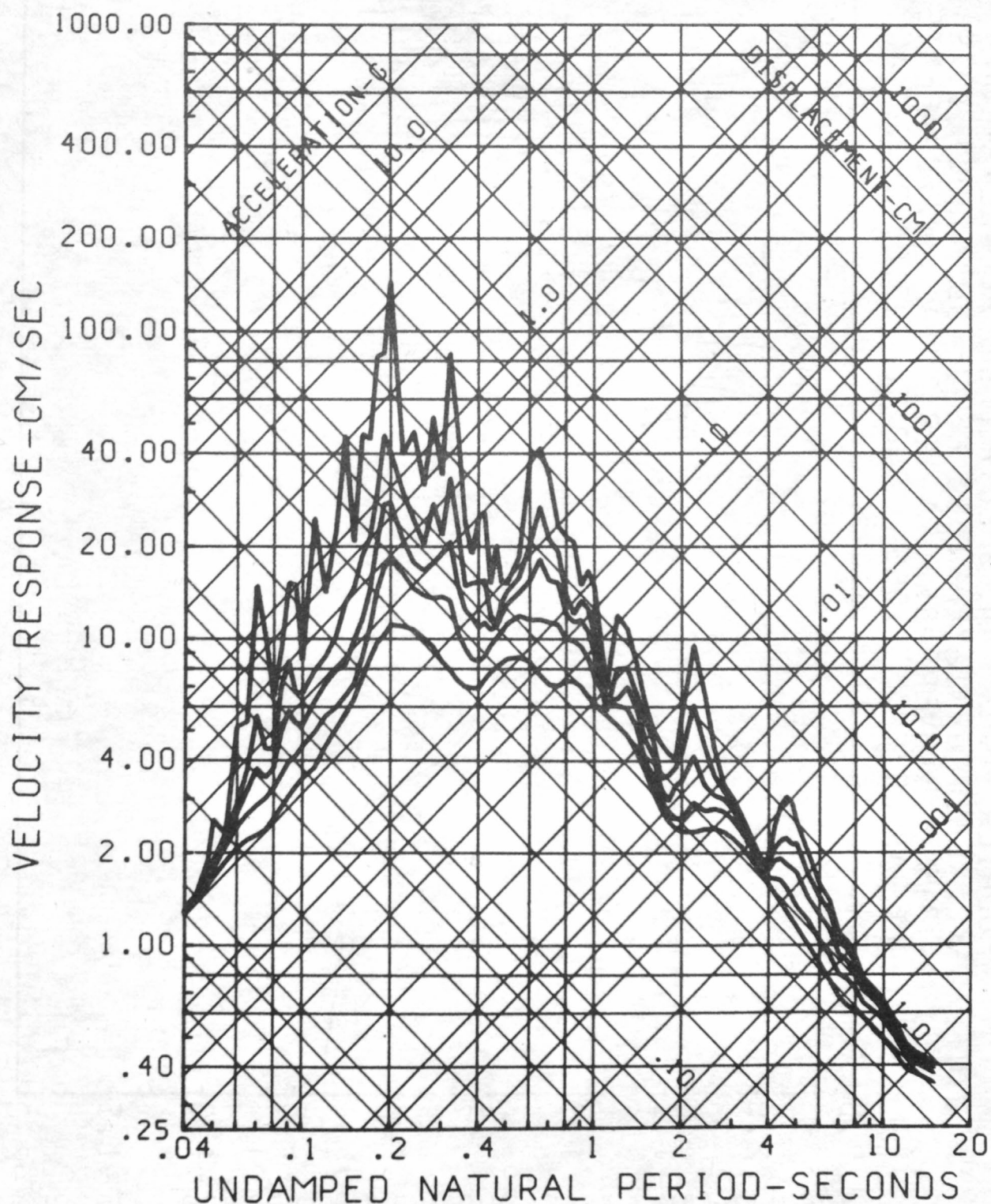
06 AUG 1979 1705 UTC SJB OVERPASS TR 5

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

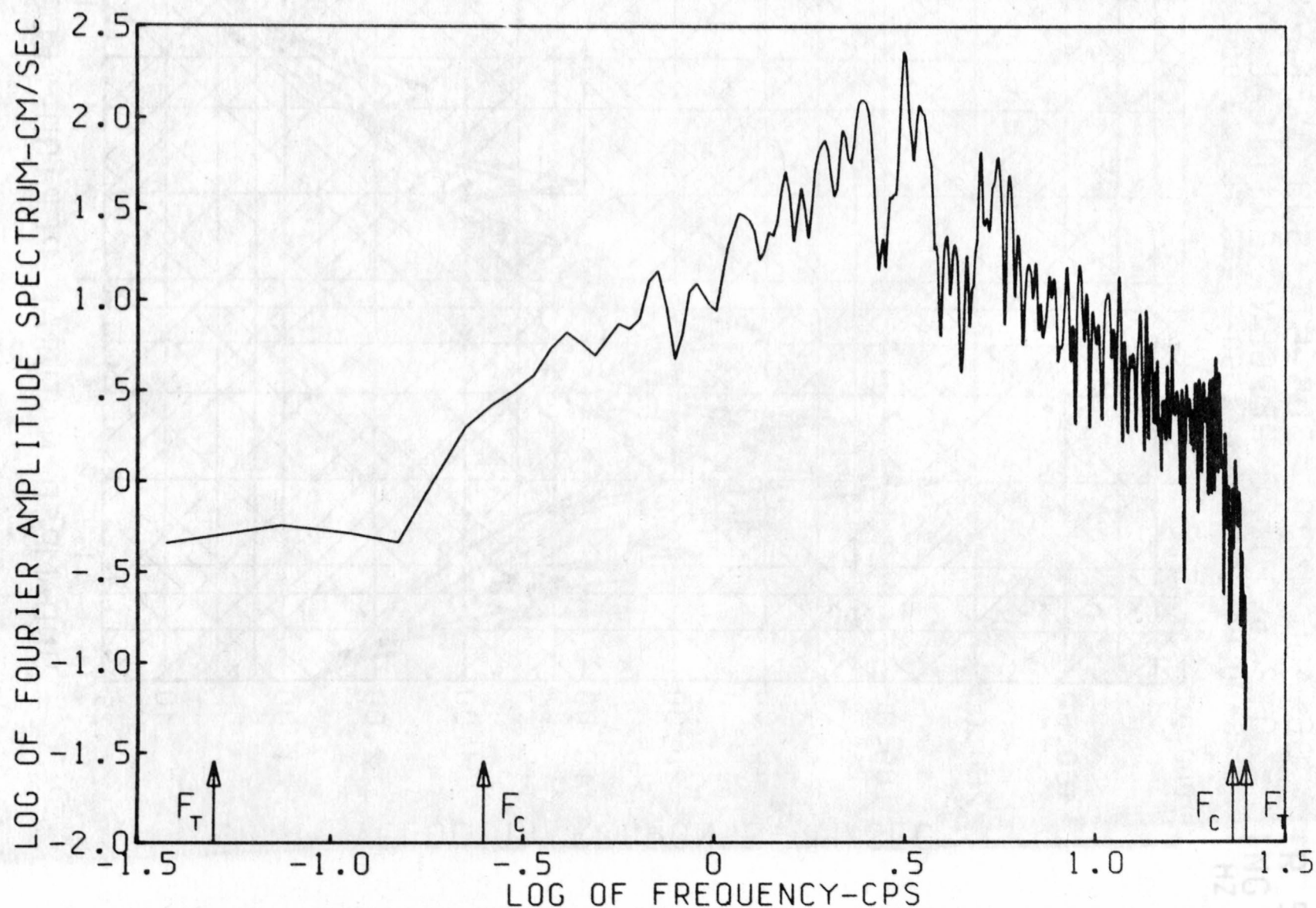
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



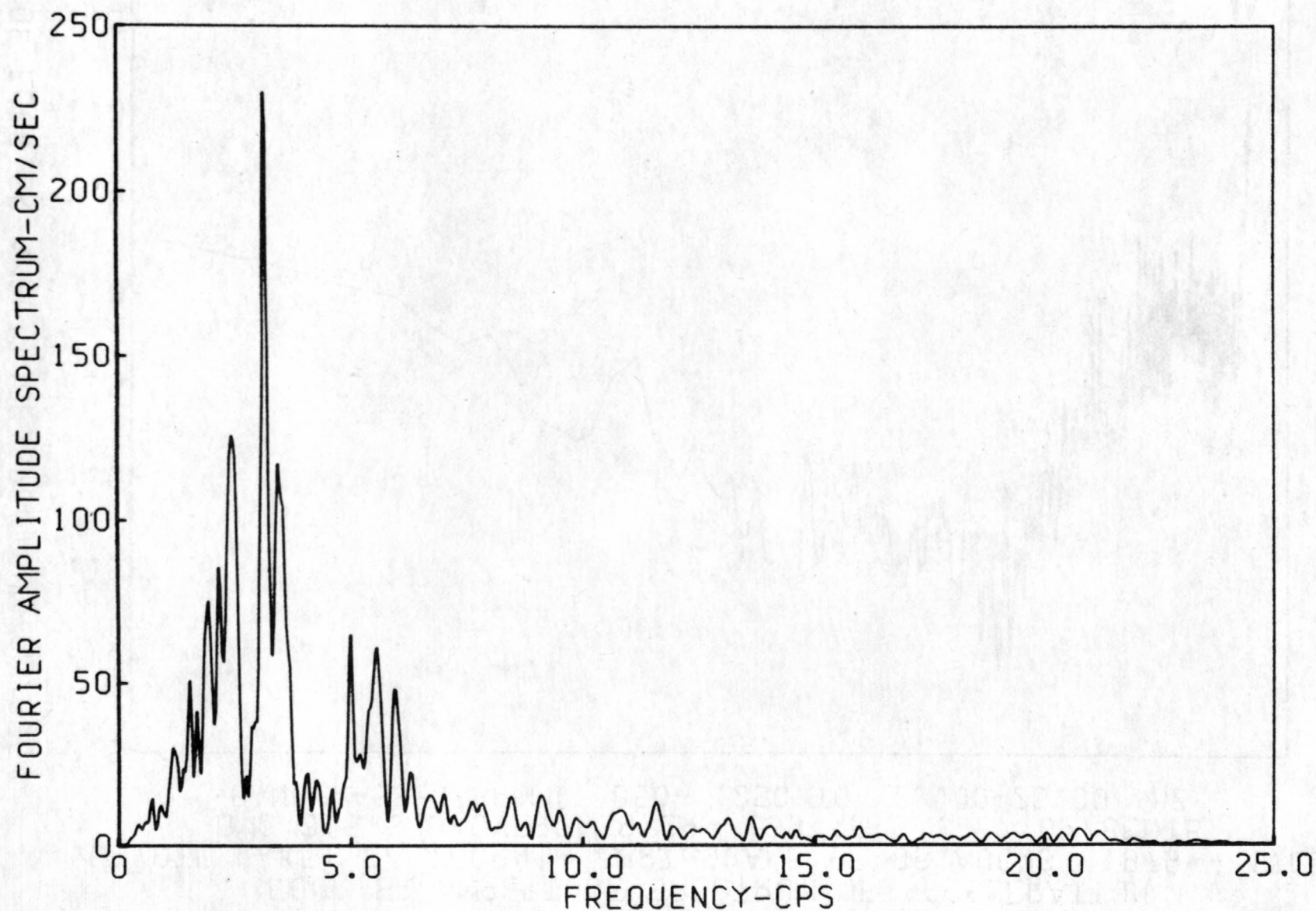
RESPONSE SPECTRA
 06 AUG 1979 1705 UTC SJB OVERPASS TR 6
 0,2,5,10,20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



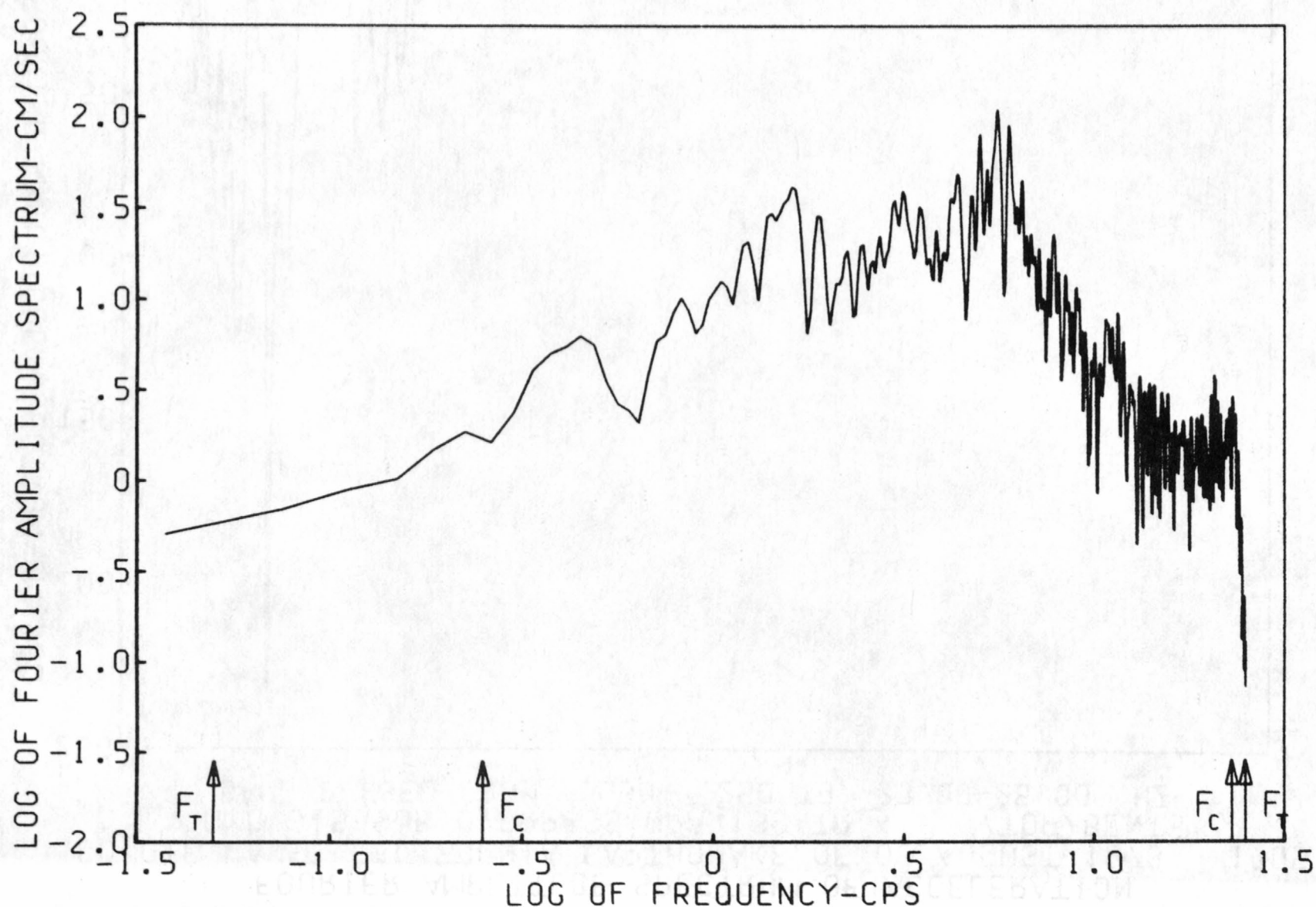
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 4 N/TOP/BENT5
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 4 N/TOP/BENT5
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

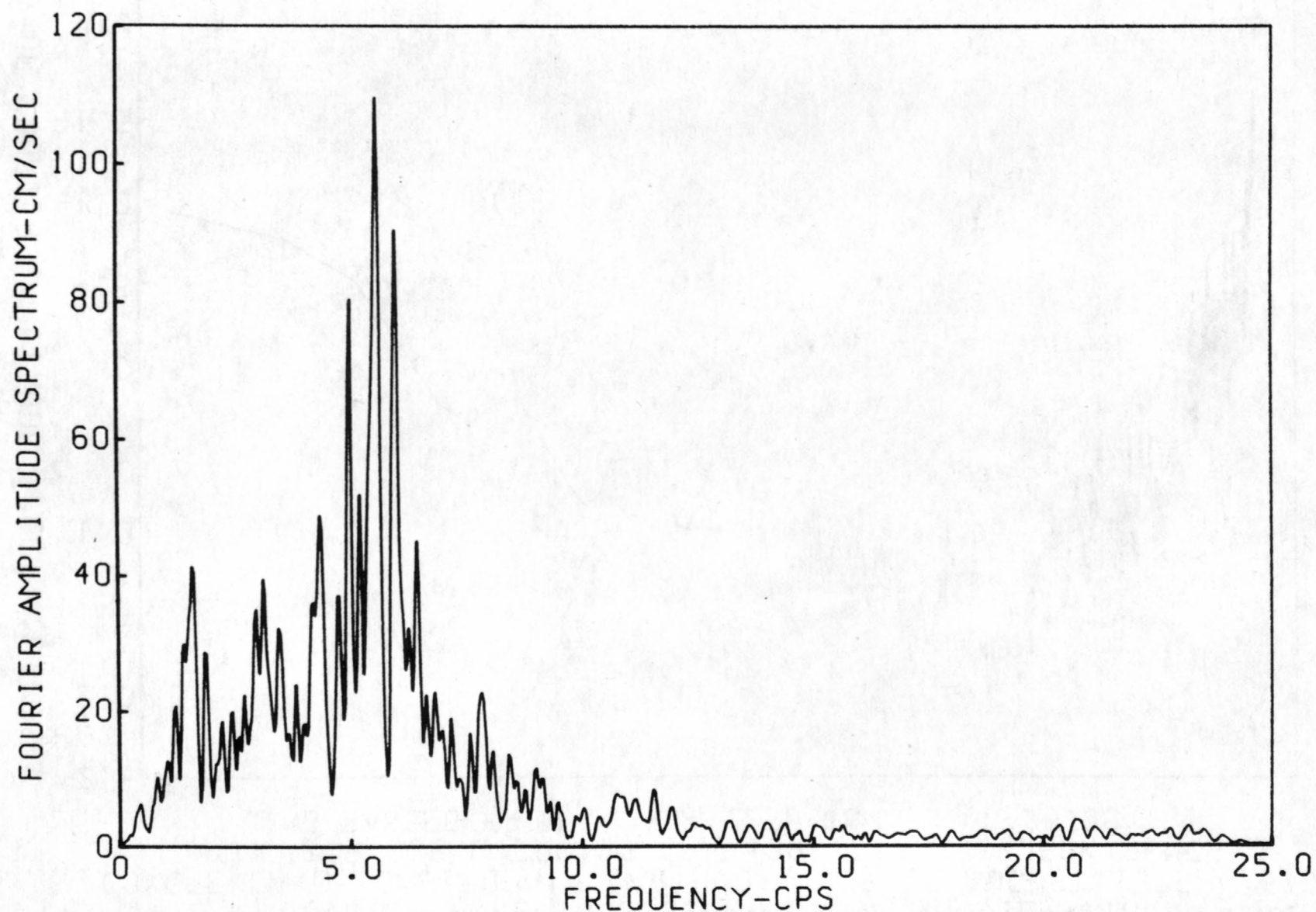


FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 5 E/TOP/BENTS
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

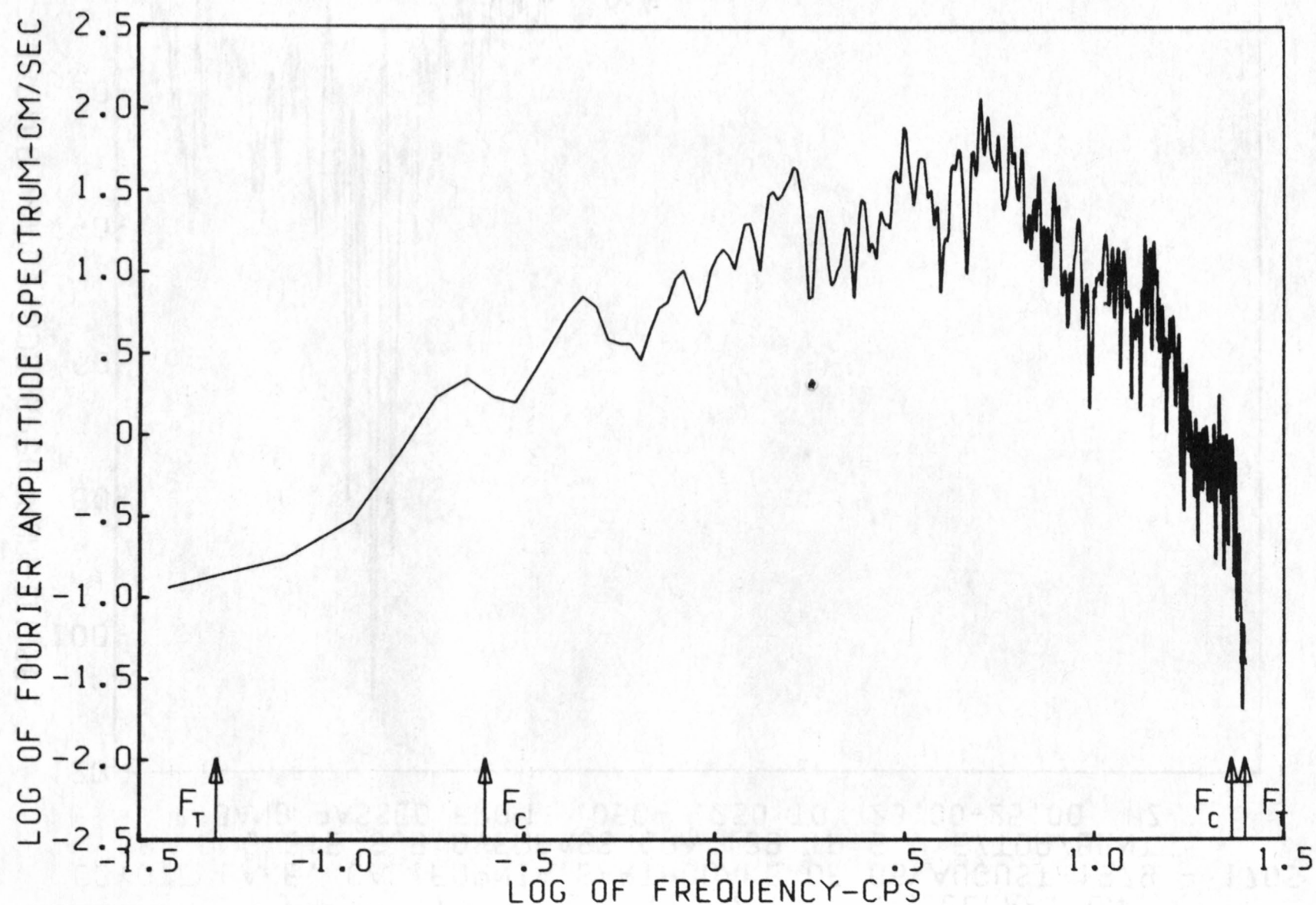


5-76970

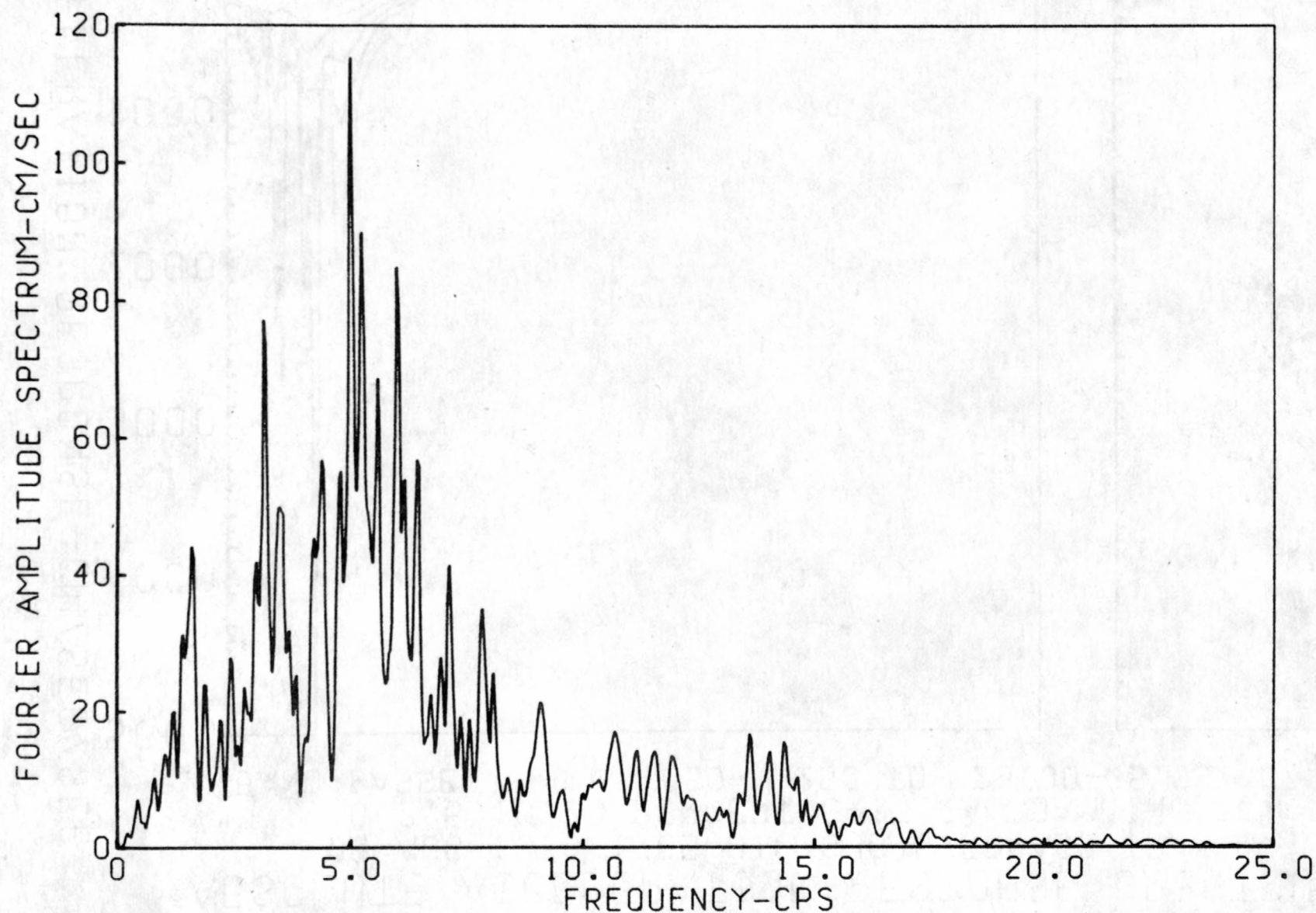
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 5 E/TOP/BENT5
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 6 E/DECK/BENTS
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 6 E/DECK/BENT5
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

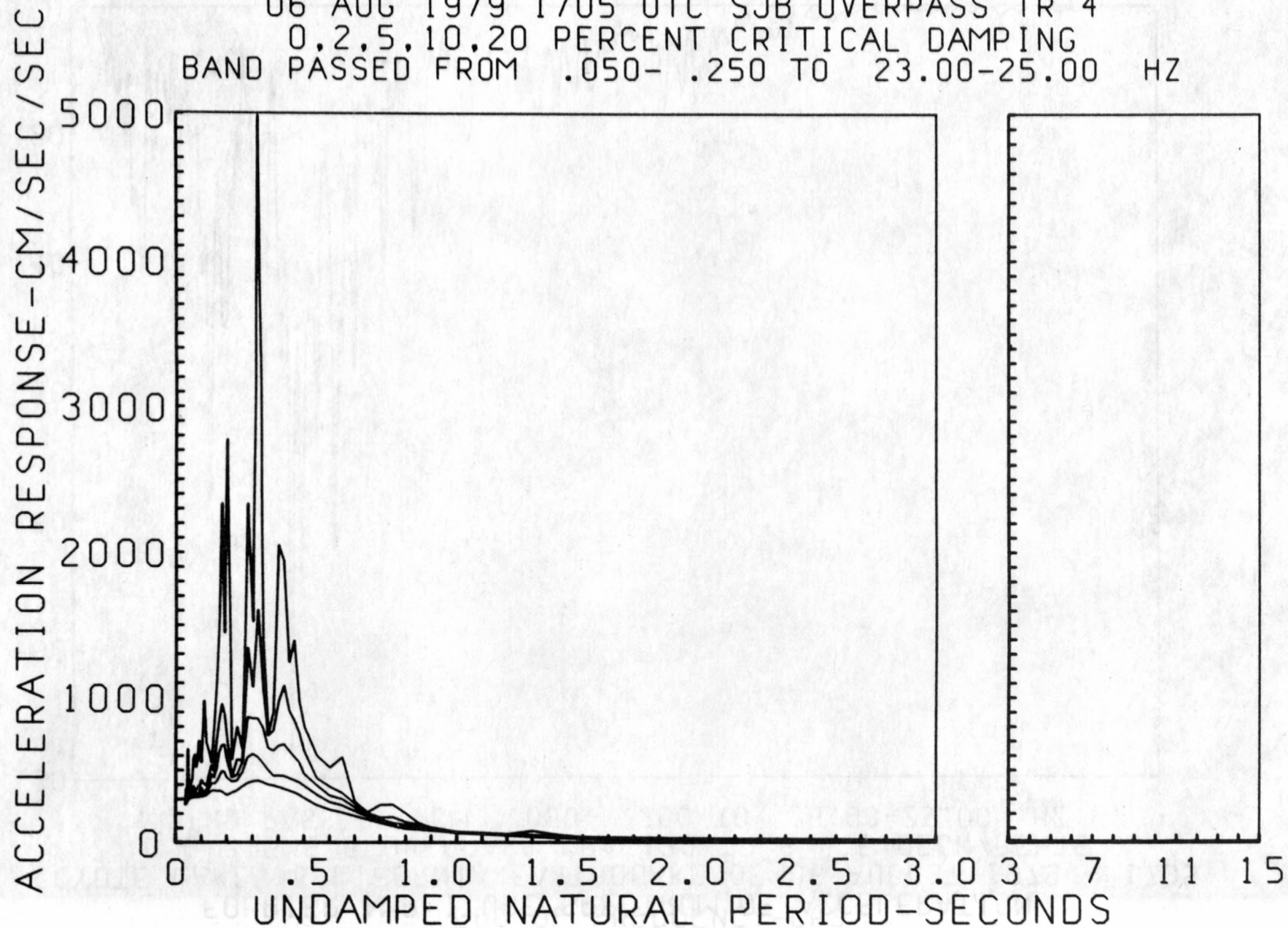


ABSOLUTE ACCELERATION RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB OVERPASS TR 4

0.2,5,10,20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

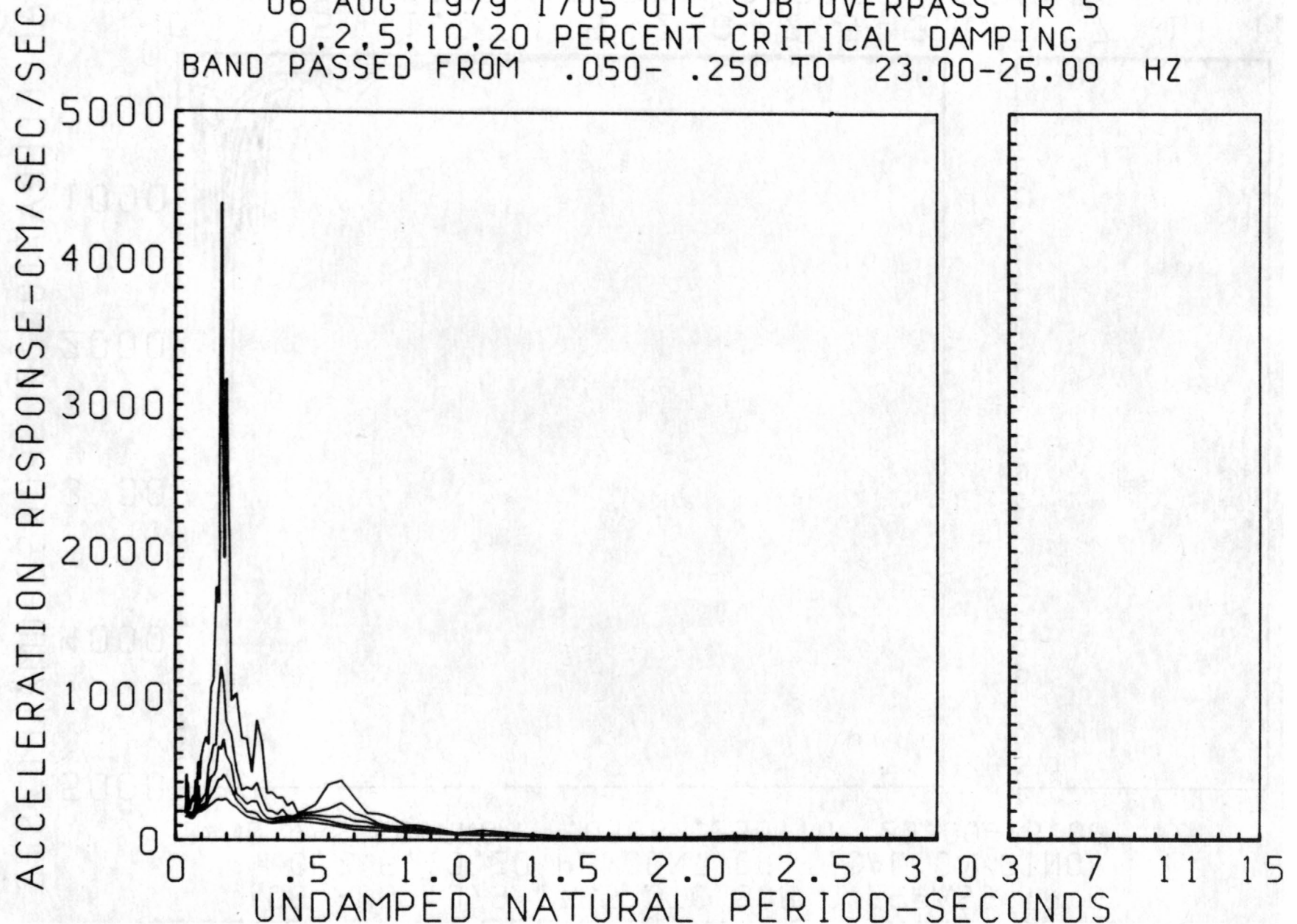


ABSOLUTE ACCELERATION RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB OVERPASS TR 5

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

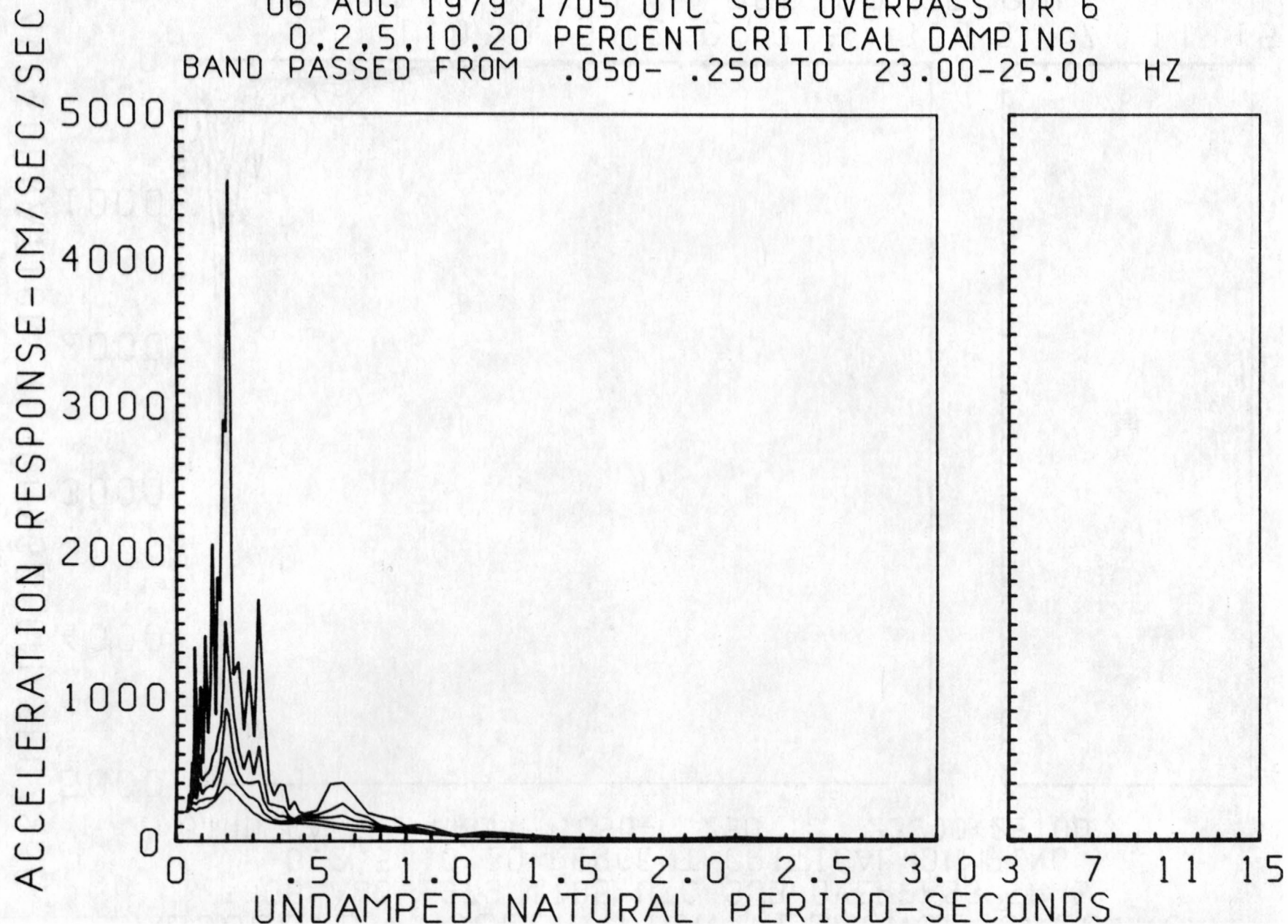


ABSOLUTE ACCELERATION RESPONSE SPECTRUM

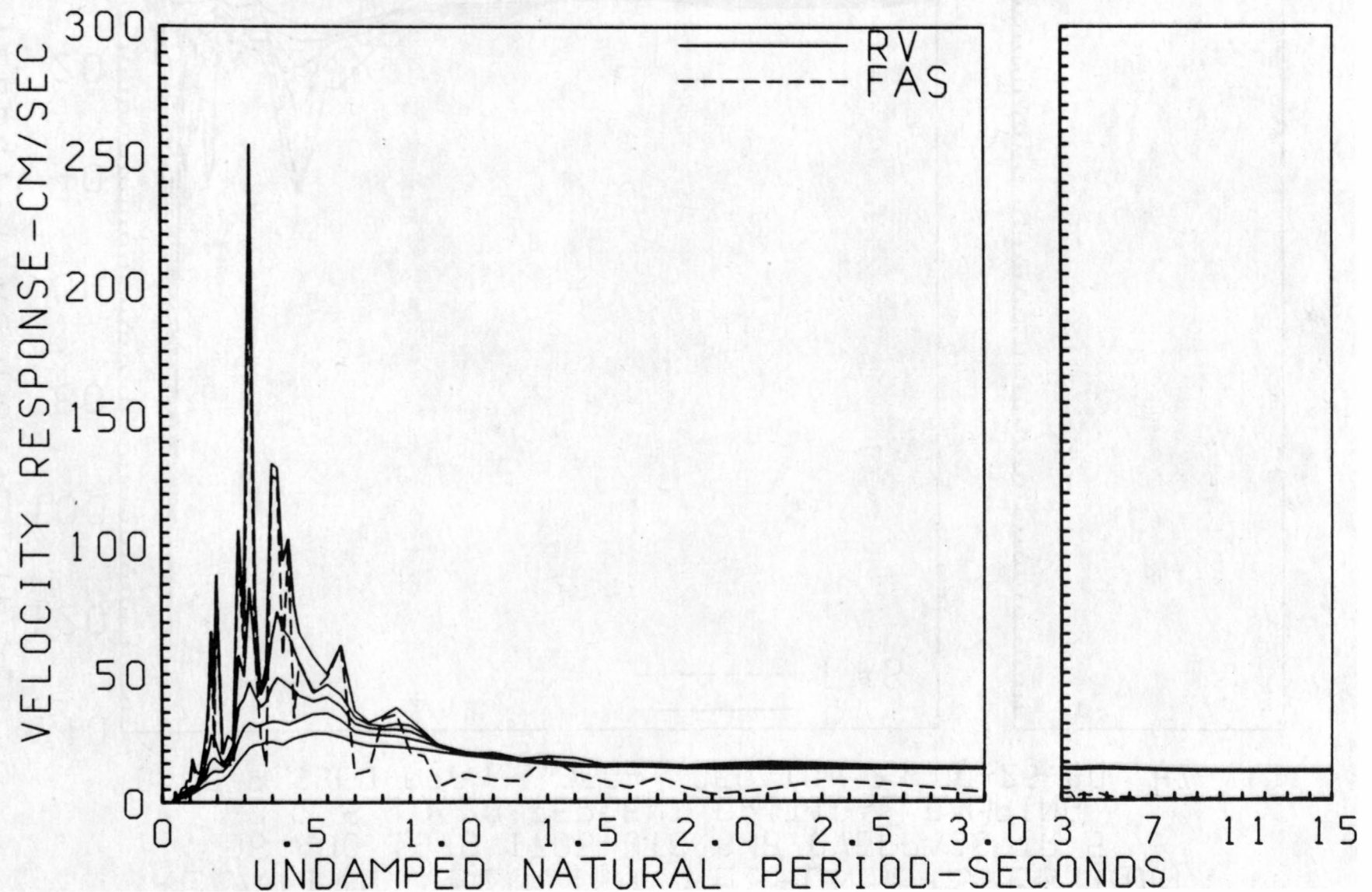
06 AUG 1979 1705 UTC SJB OVERPASS TR 6

0.2,5,10,20 PERCENT CRITICAL DAMPING

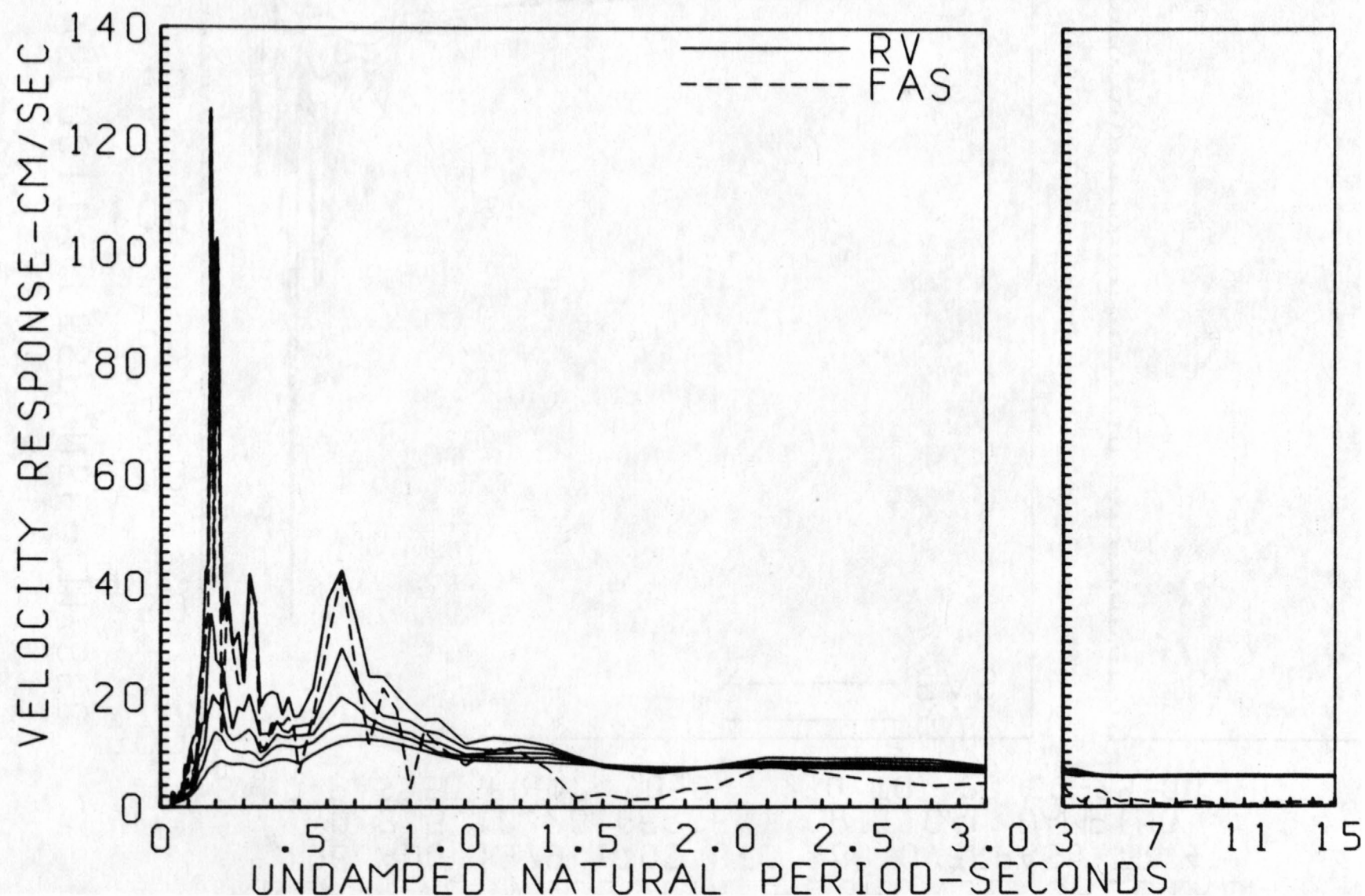
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



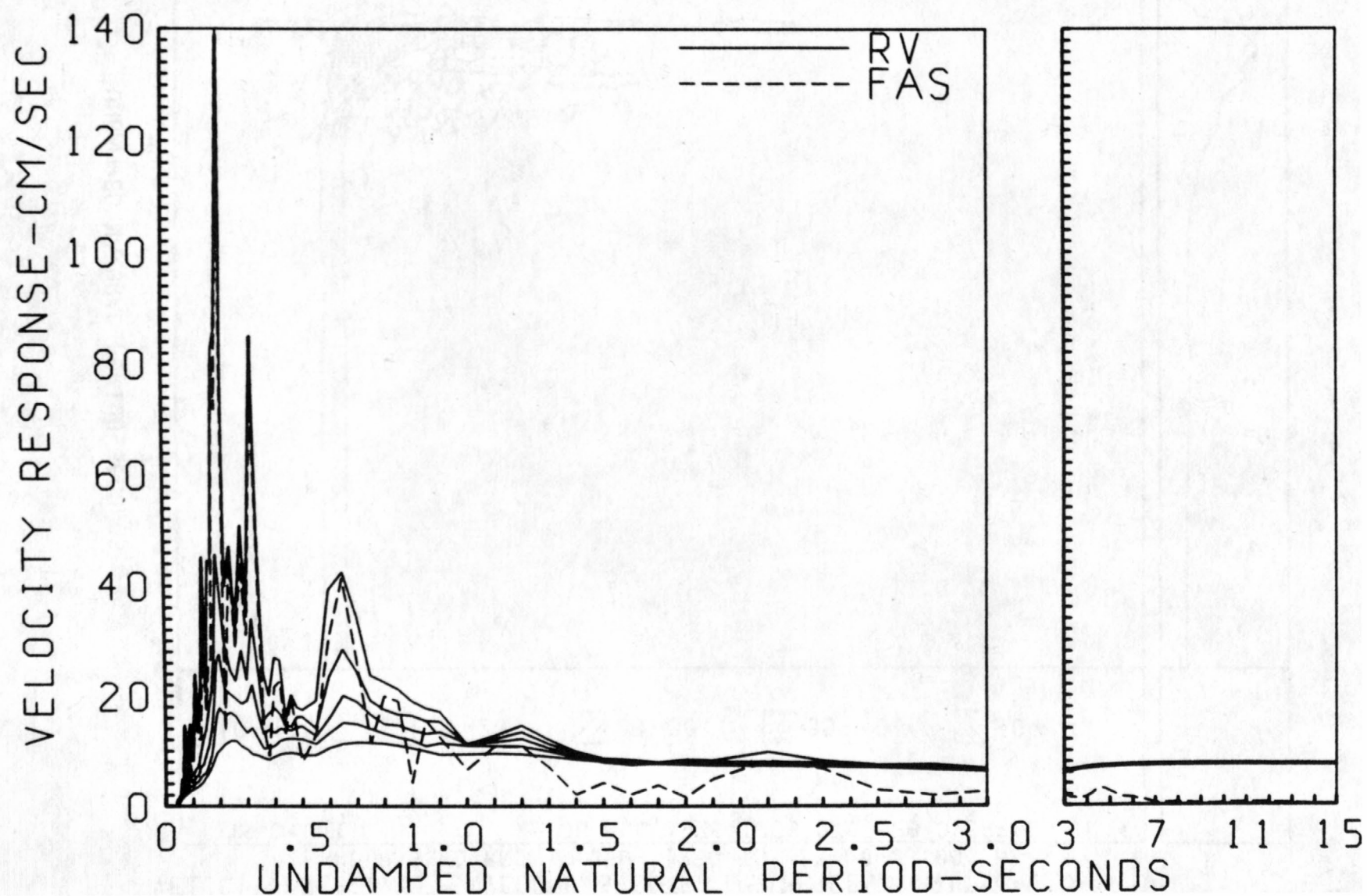
RELATIVE VELOCITY RESPONSE SPECTRUM
06 AUG 1979 1705 UTC SJB OVERPASS TR 4
0.2,5,10,20 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



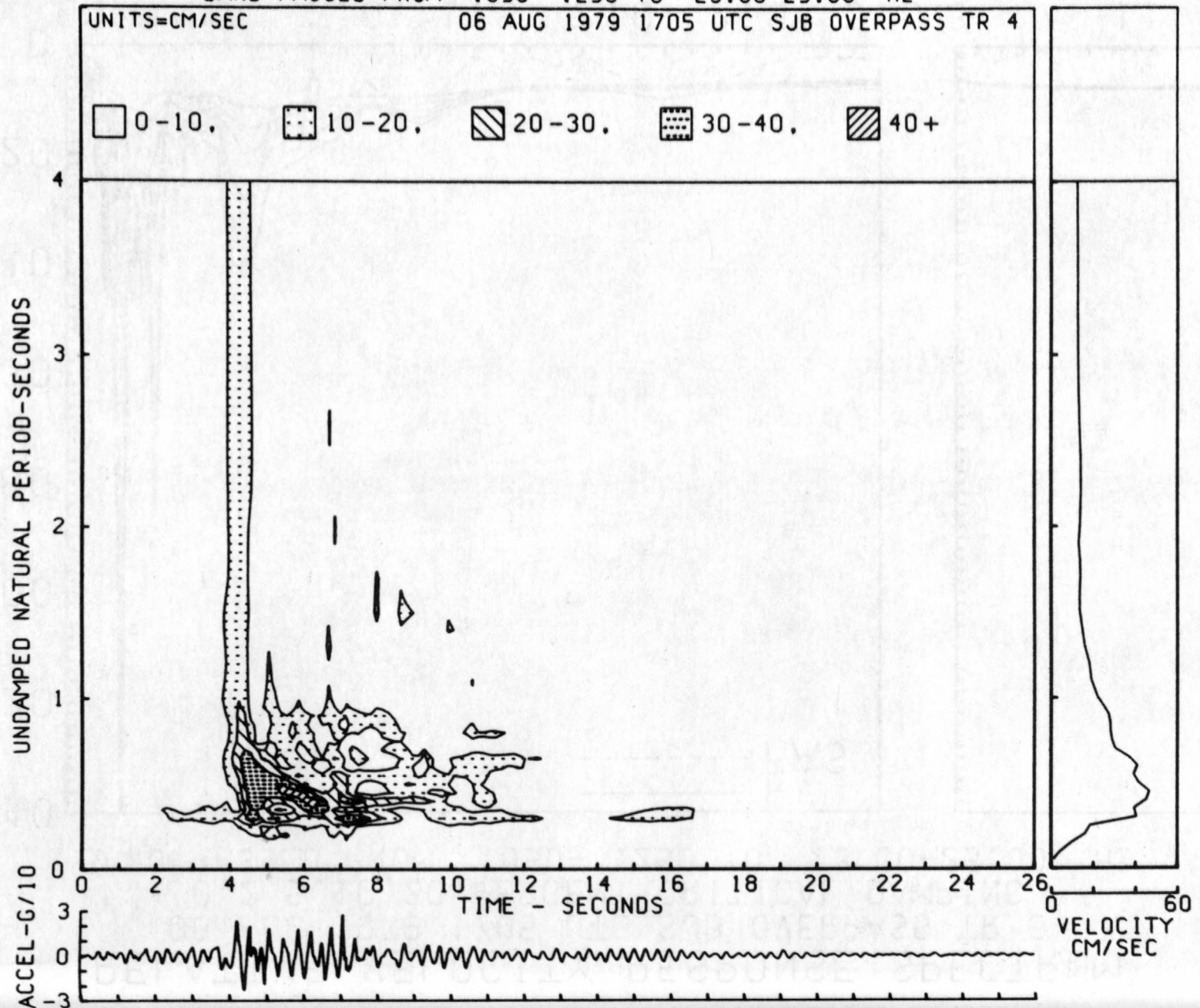
RELATIVE VELOCITY RESPONSE SPECTRUM
06 AUG 1979 1705 UTC SJB OVERPASS TR 5
0.2,5,10,20 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



RELATIVE VELOCITY RESPONSE SPECTRUM
06 AUG 1979 1705 UTC SJB OVERPASS TR 6
0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

UNITS=CM/SEC

06 AUG 1979 1705 UTC SJB OVERPASS TR 5

0-5.

5-10.

10-15.

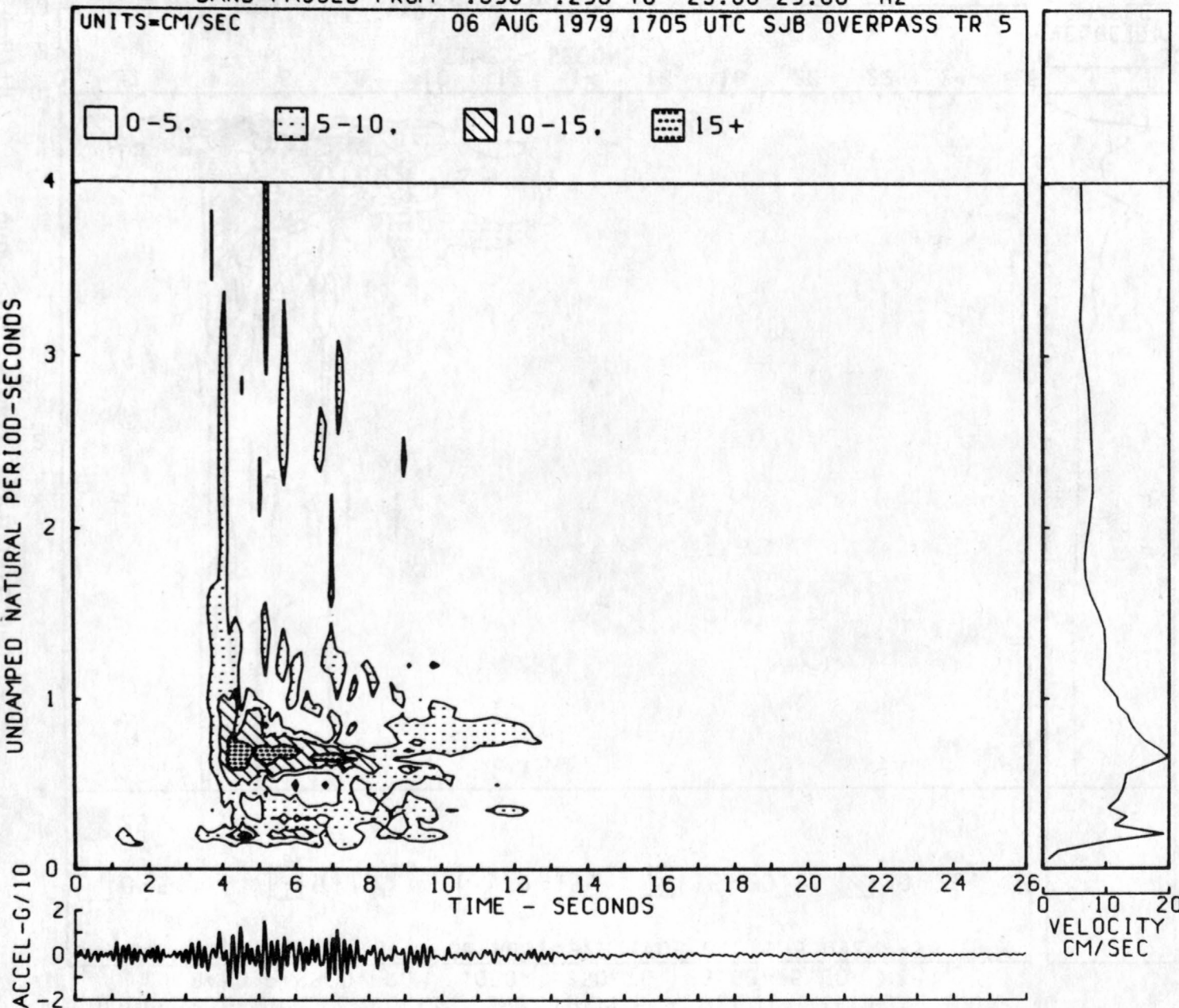
15+

UNDAMPED NATURAL PERIOD-SECONDS

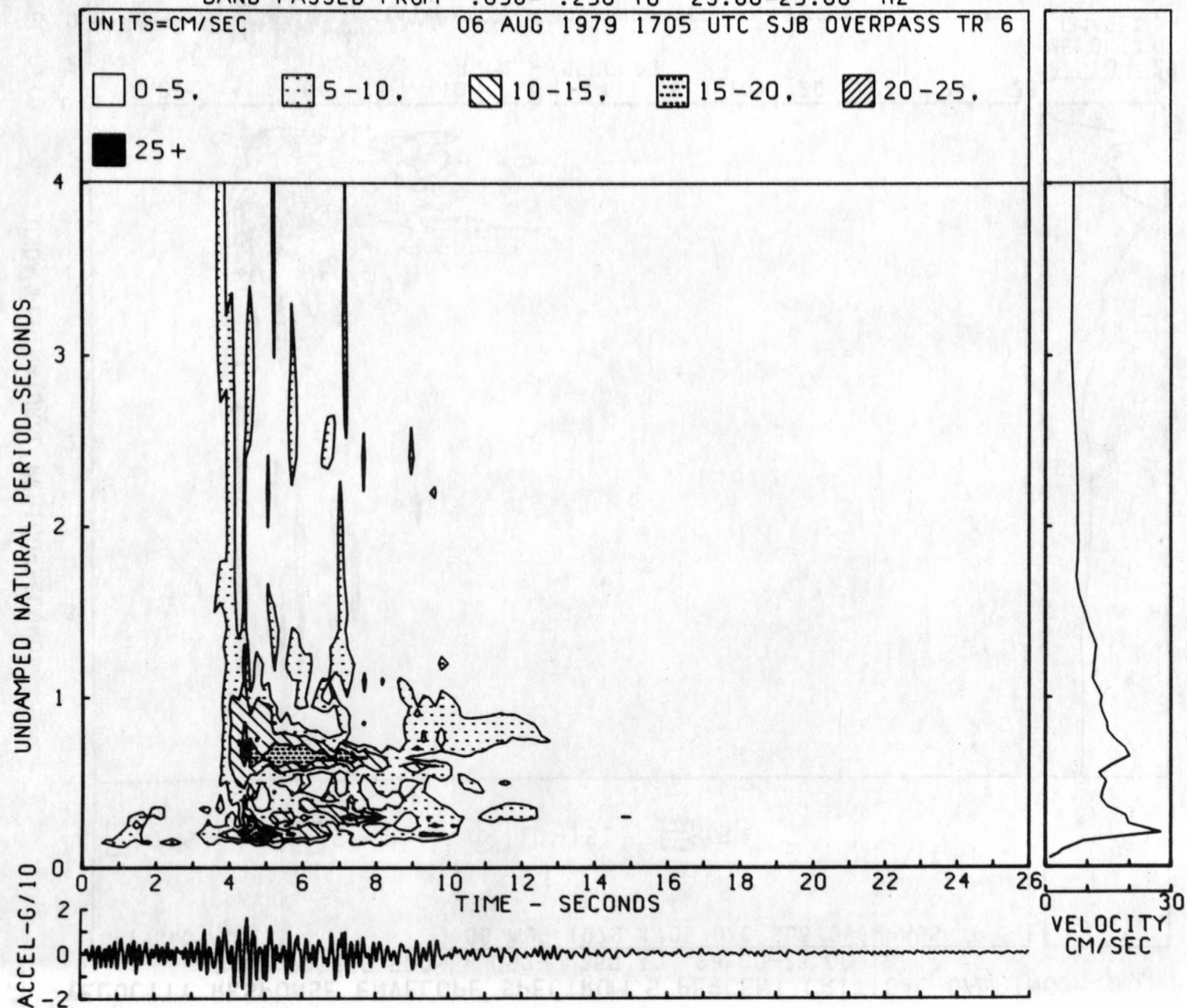
ACCEL-G/10

TIME - SECONDS

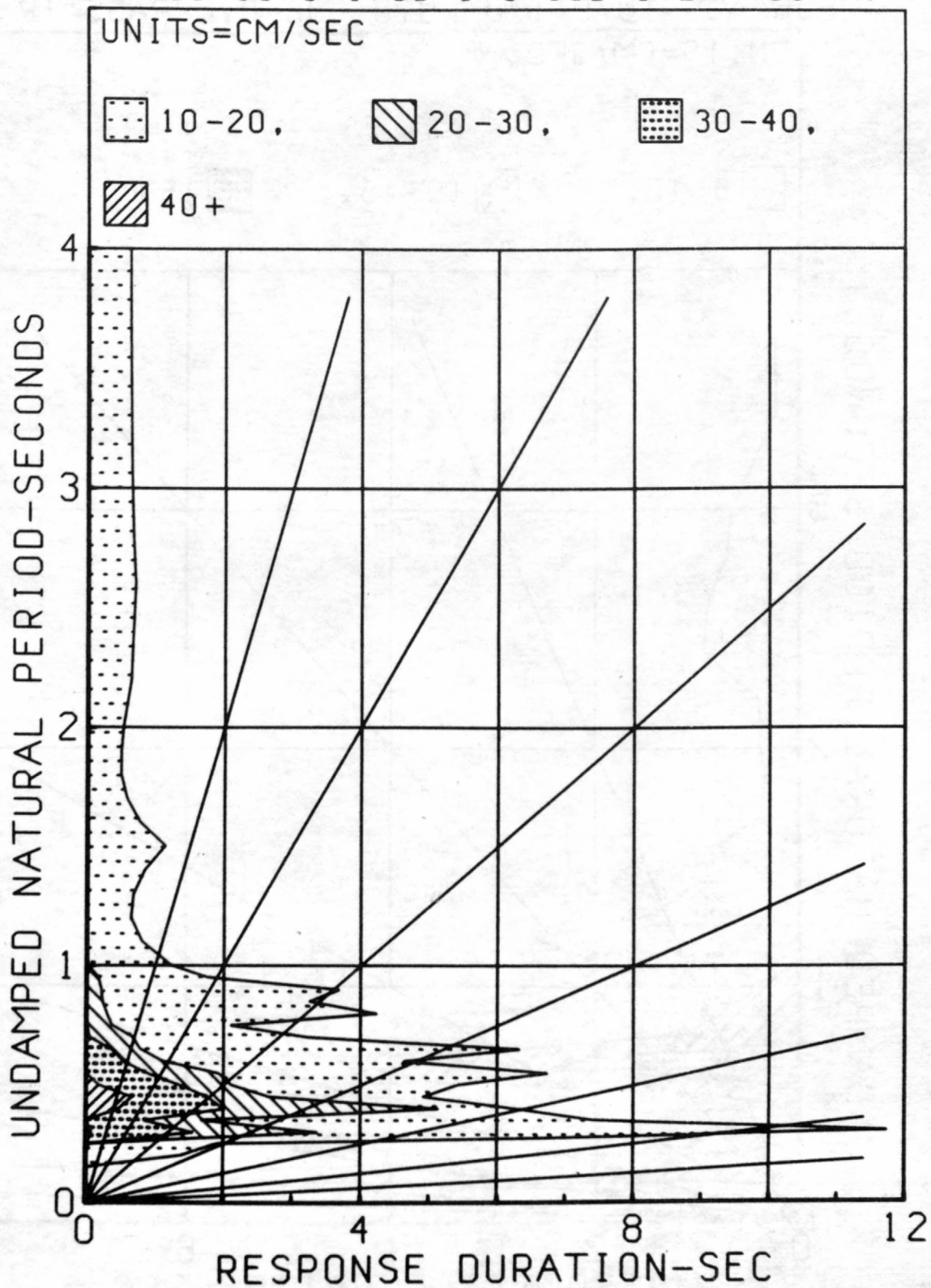
VELOCITY
CM/SEC



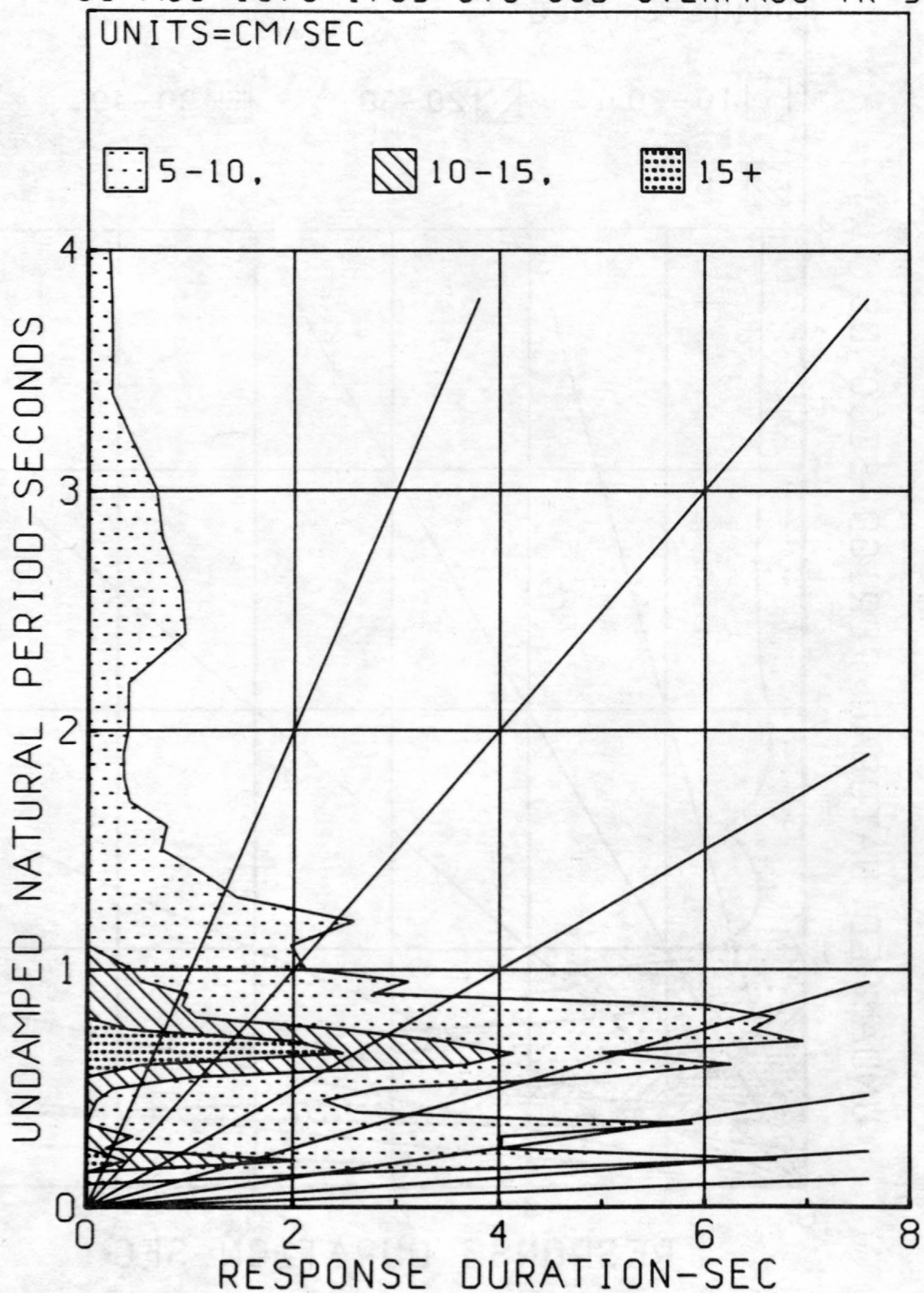
VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



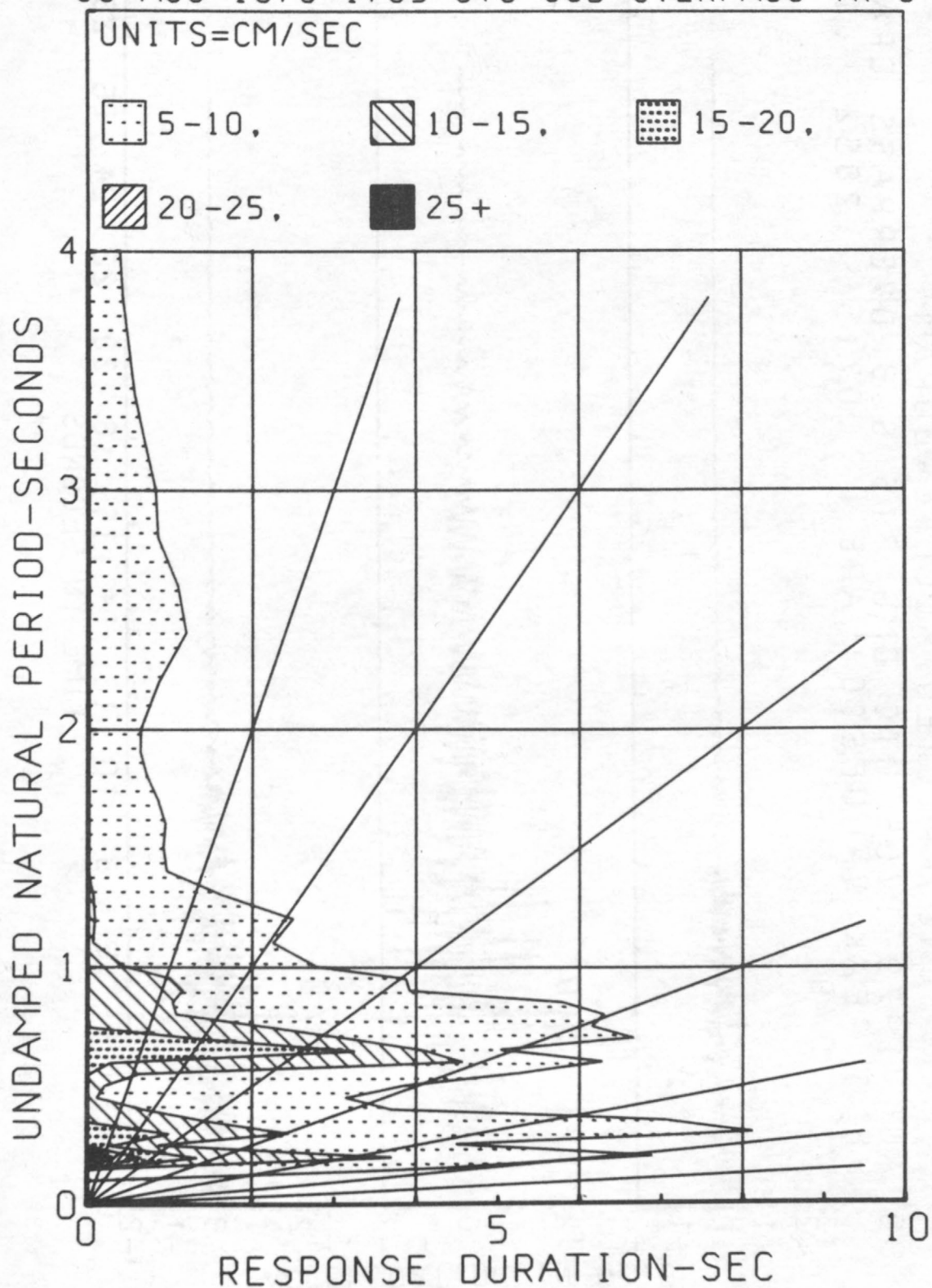
DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 4



DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 5



DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 6

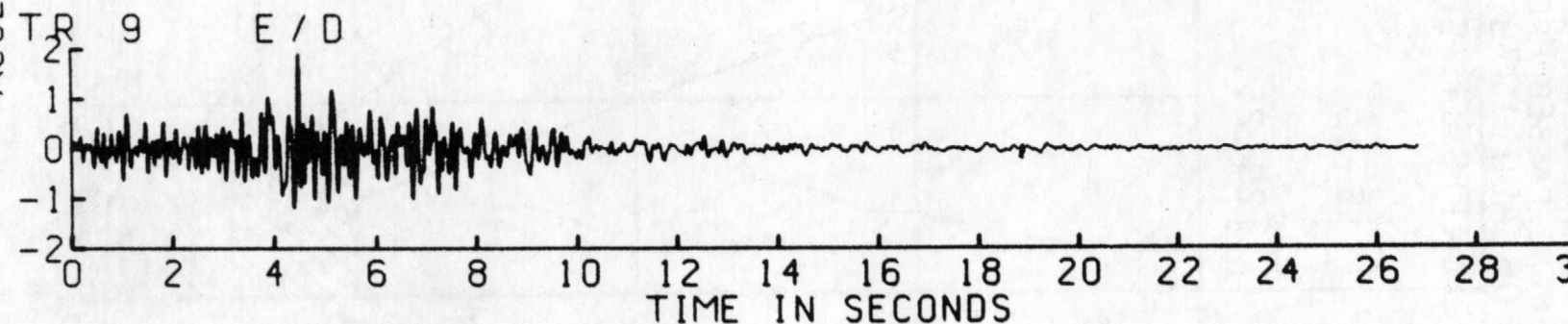
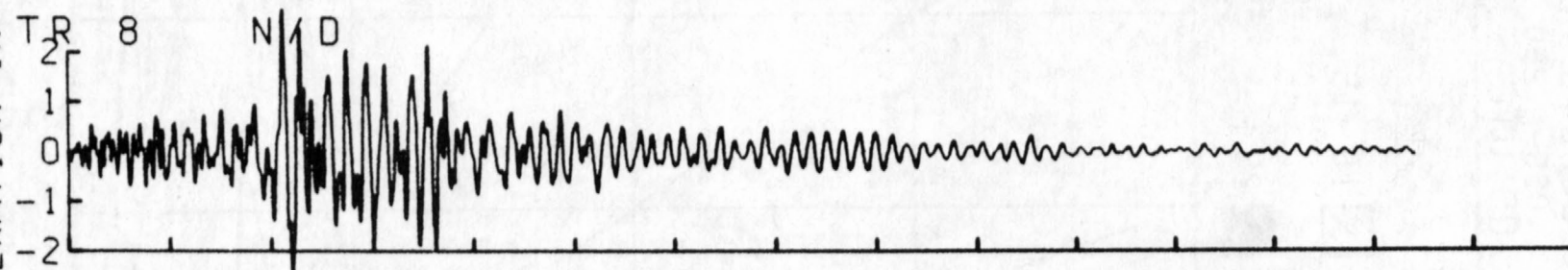
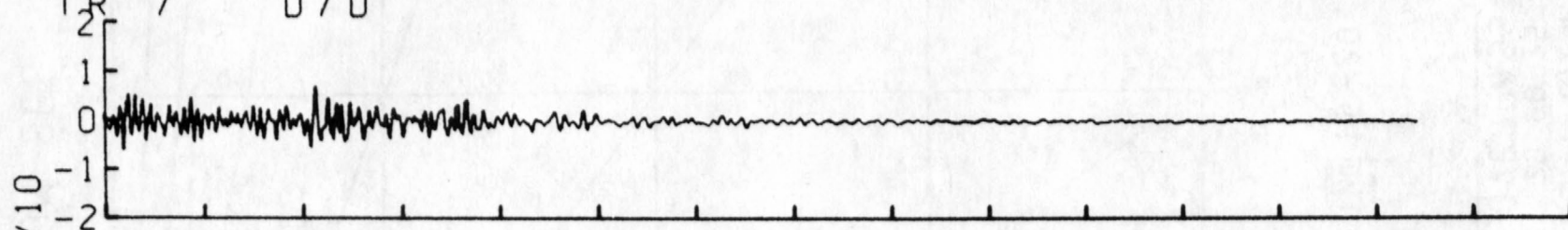


UNCORRECTED ACCELEROGRAM

06 AUG 1979 1705 UTC DMG 315 SJB OVERPASS CRA 139

THE 3 PEAK VALUES(G) ARE .0715 .2852 .1899

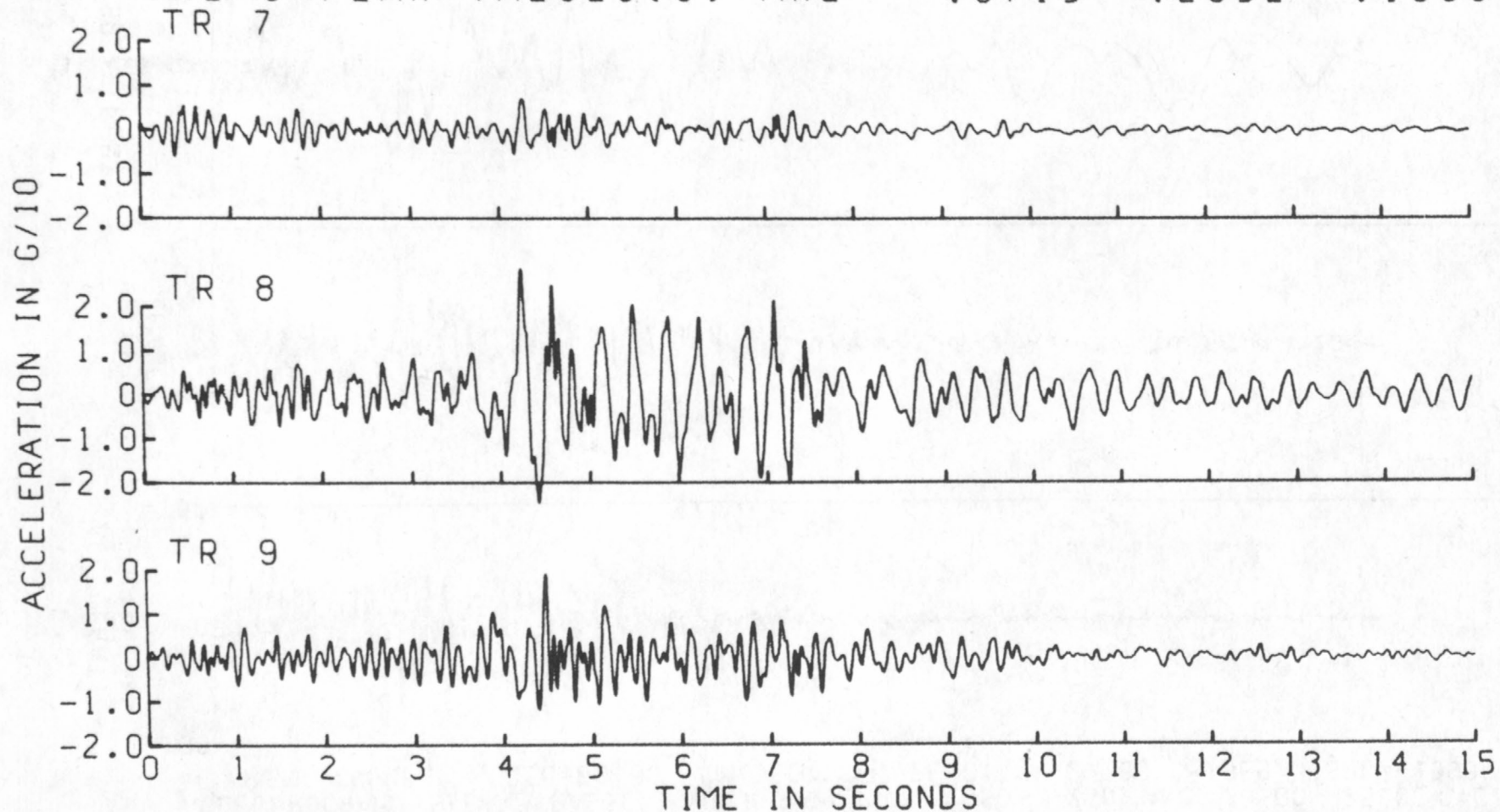
TR 7 D/D



UNCORRECTED ACCELEROGRAM

06 AUG 1979 1705 UTC DMG 315 SJB OVERPASS CRA 139

THE 3 PEAK VALUES(G) ARE .0715 .2852 .1899



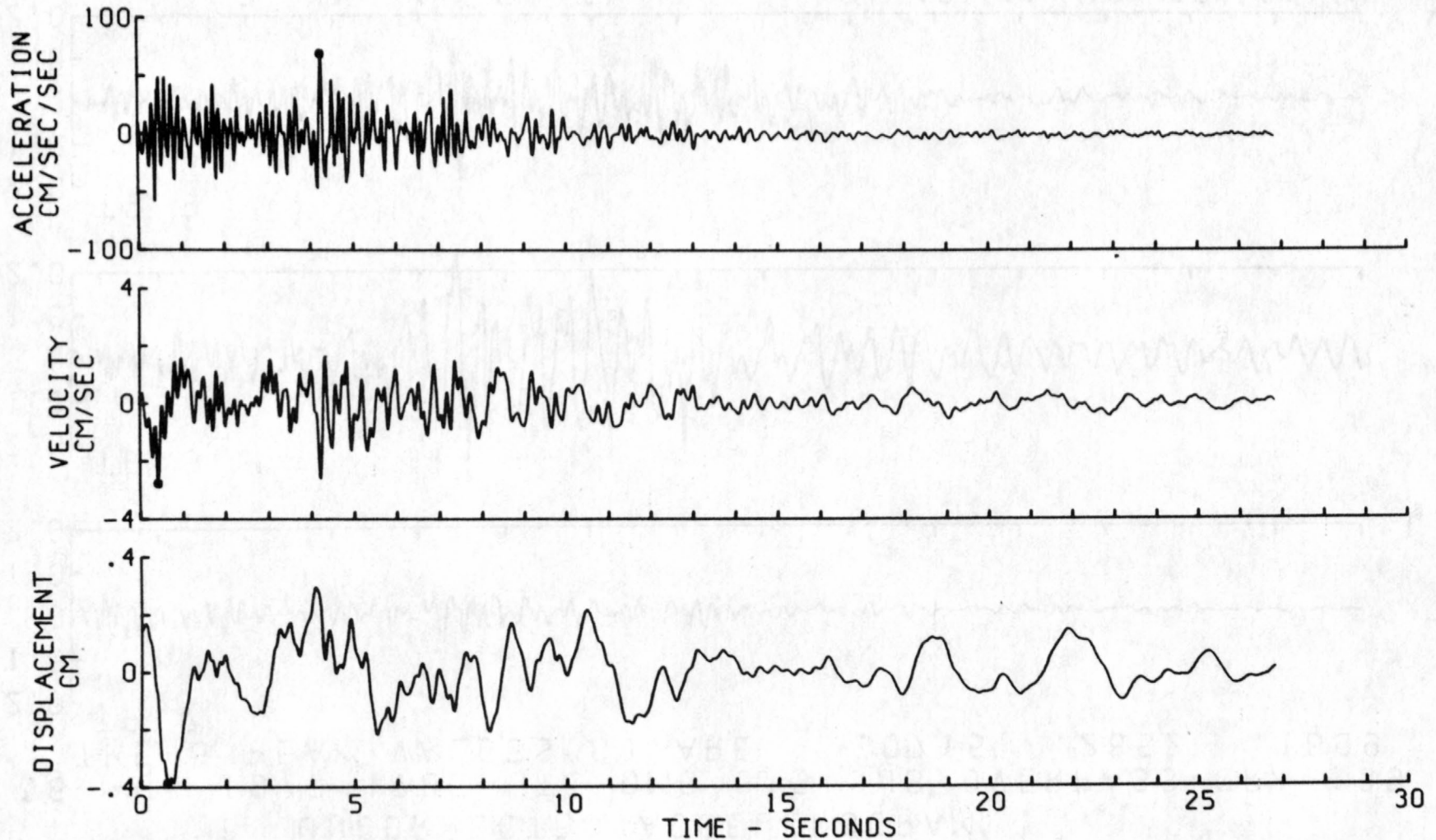
CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705

DMG 315 SJB OVERPASS CRA 139 TR 7 D/DECK/BENT5

DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC

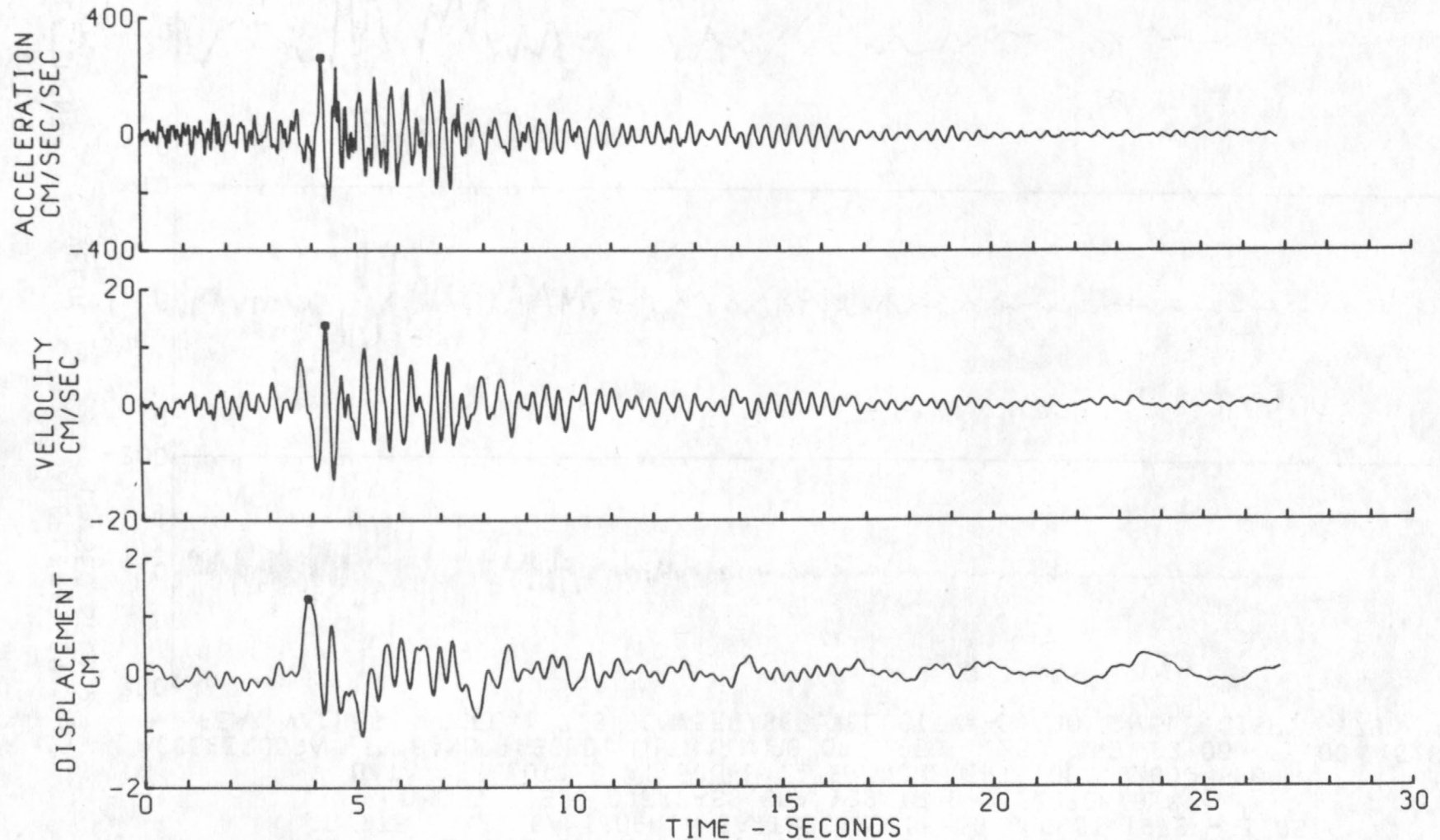
ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC

• PEAK VALUES ACCEL=69.60 CM/SEC/SEC, VELOCITY=-2.780 CM/SEC, DISPL=-.390 CM



CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 8 N/DECK/BENTS

DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC
ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC
• PEAK VALUES ACCEL=266.6 CM/SEC/SEC, VELOCITY=13.76 CM/SEC, DISPL=1.300 CM



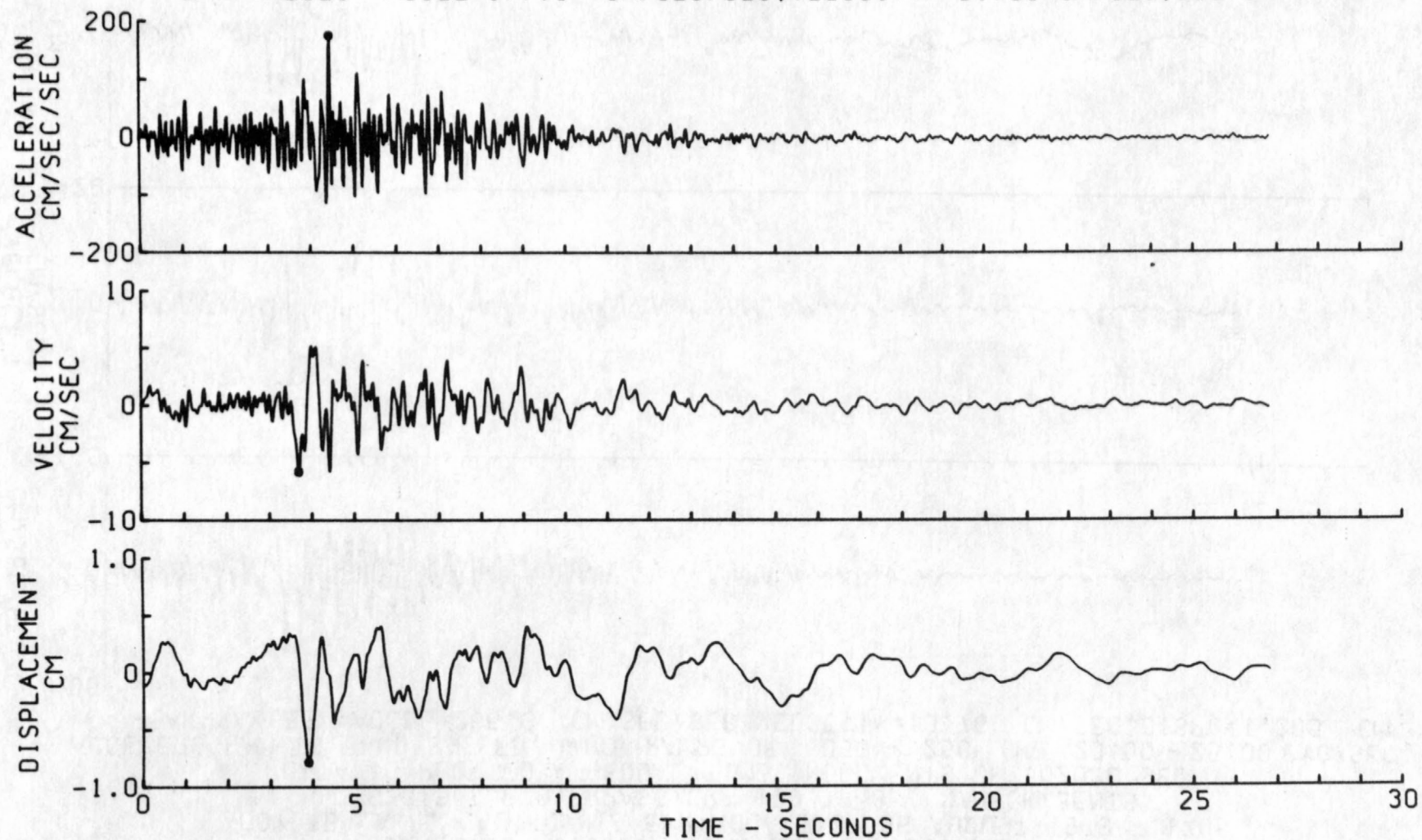
CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705

DMG 315 SJB OVERPASS CRA 139 TR 9 E/DECK/BENT4

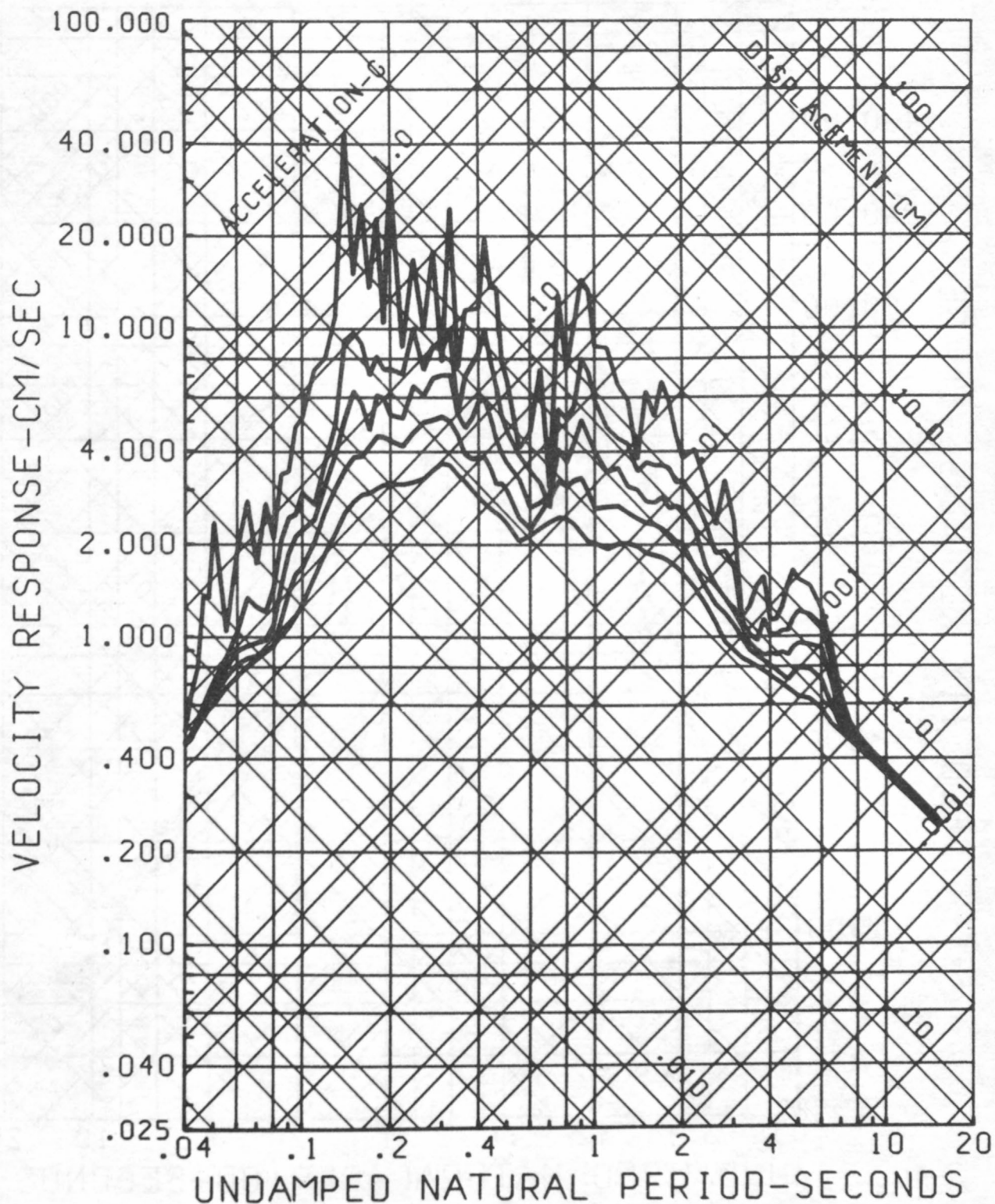
DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC

ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC

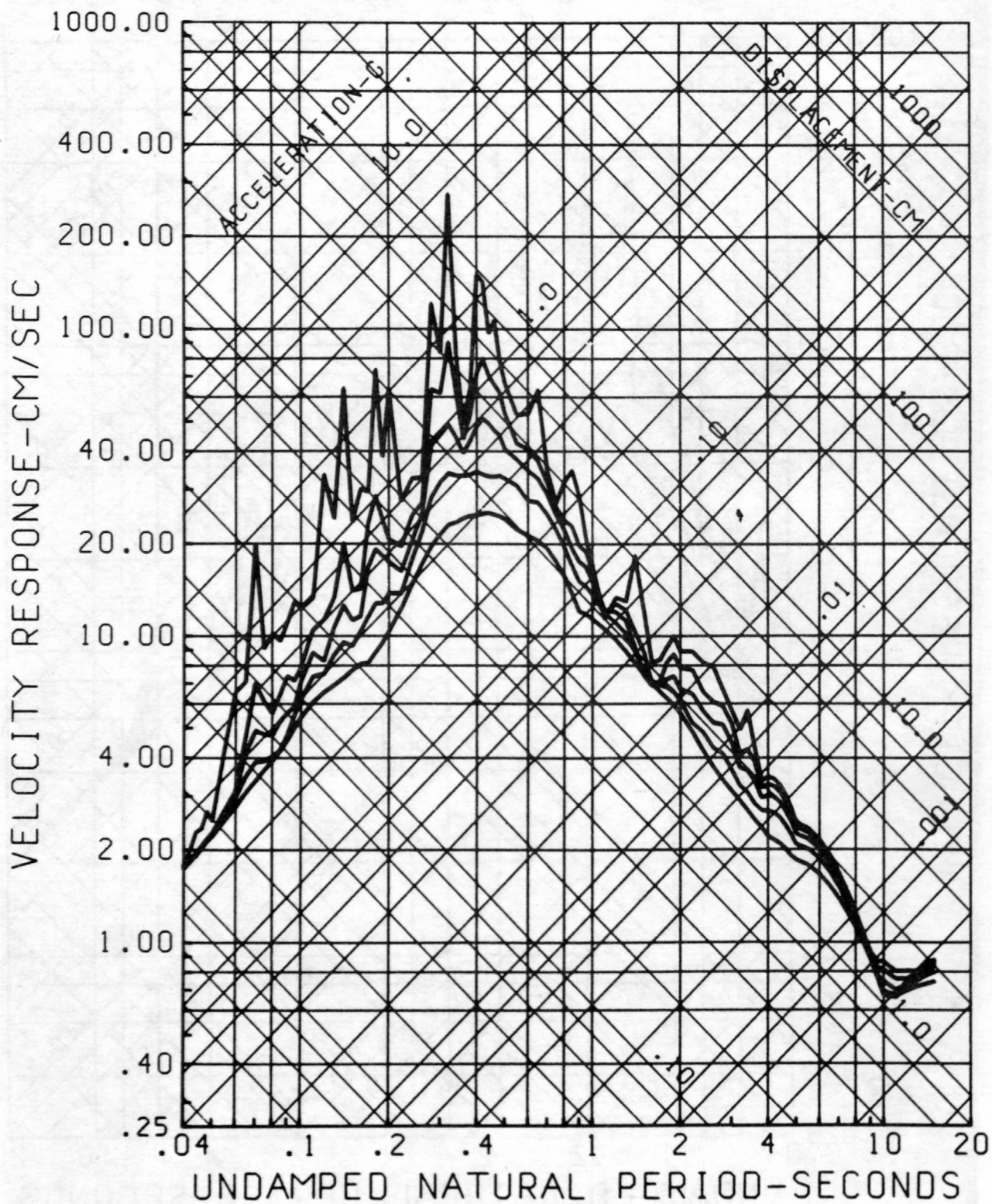
• PEAK VALUES ACCEL=177.3 CM/SEC/SEC, VELOCITY=-5.790 CM/SEC, DISPL=-.790 CM



RESPONSE SPECTRA
 06 AUG 1979 1705 UTC SJB OVERPASS TR 7
 0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

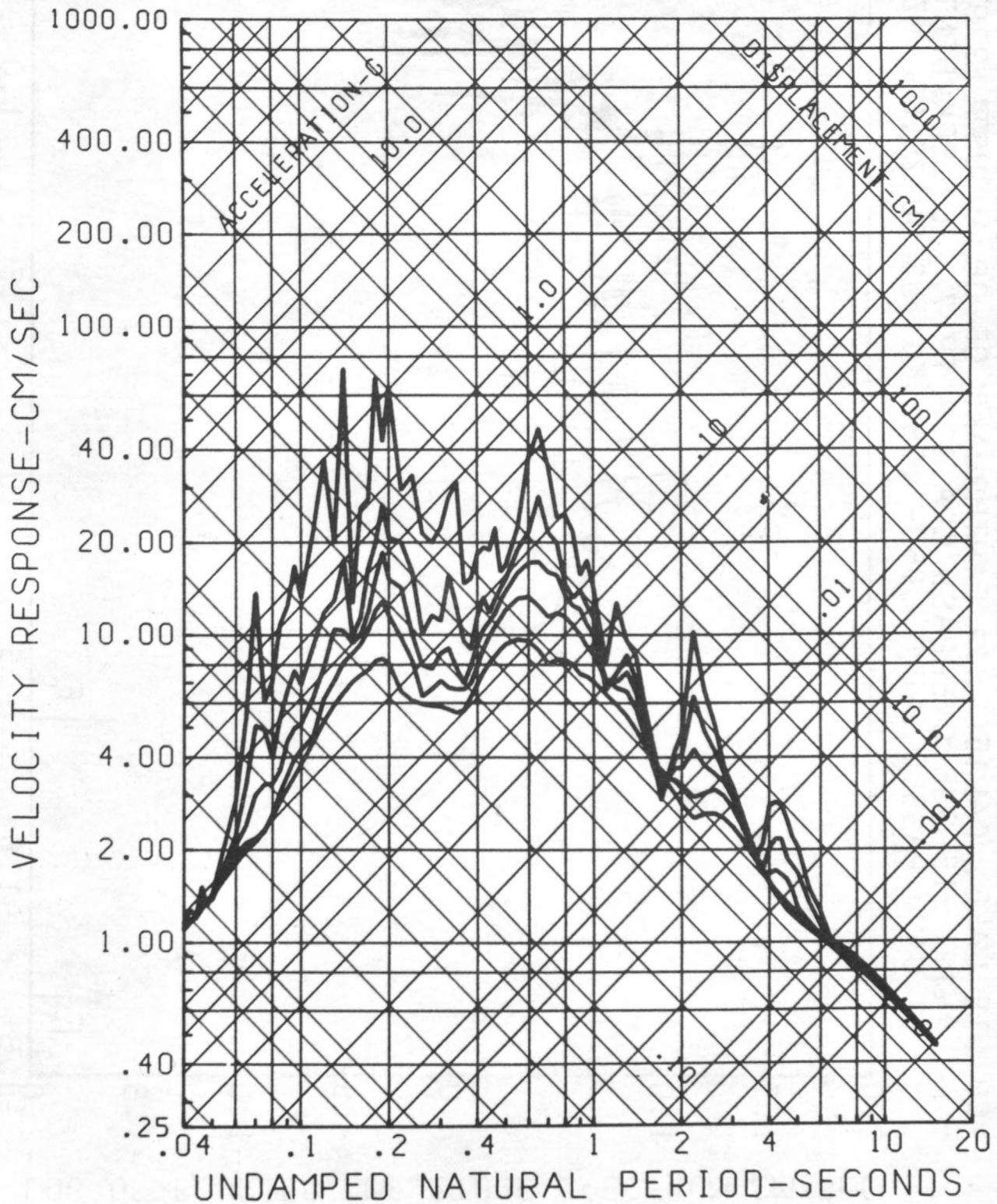


RESPONSE SPECTRA
 06 AUG 1979 1705 UTC SJB OVERPASS TR 8
 0,2,5,10,20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

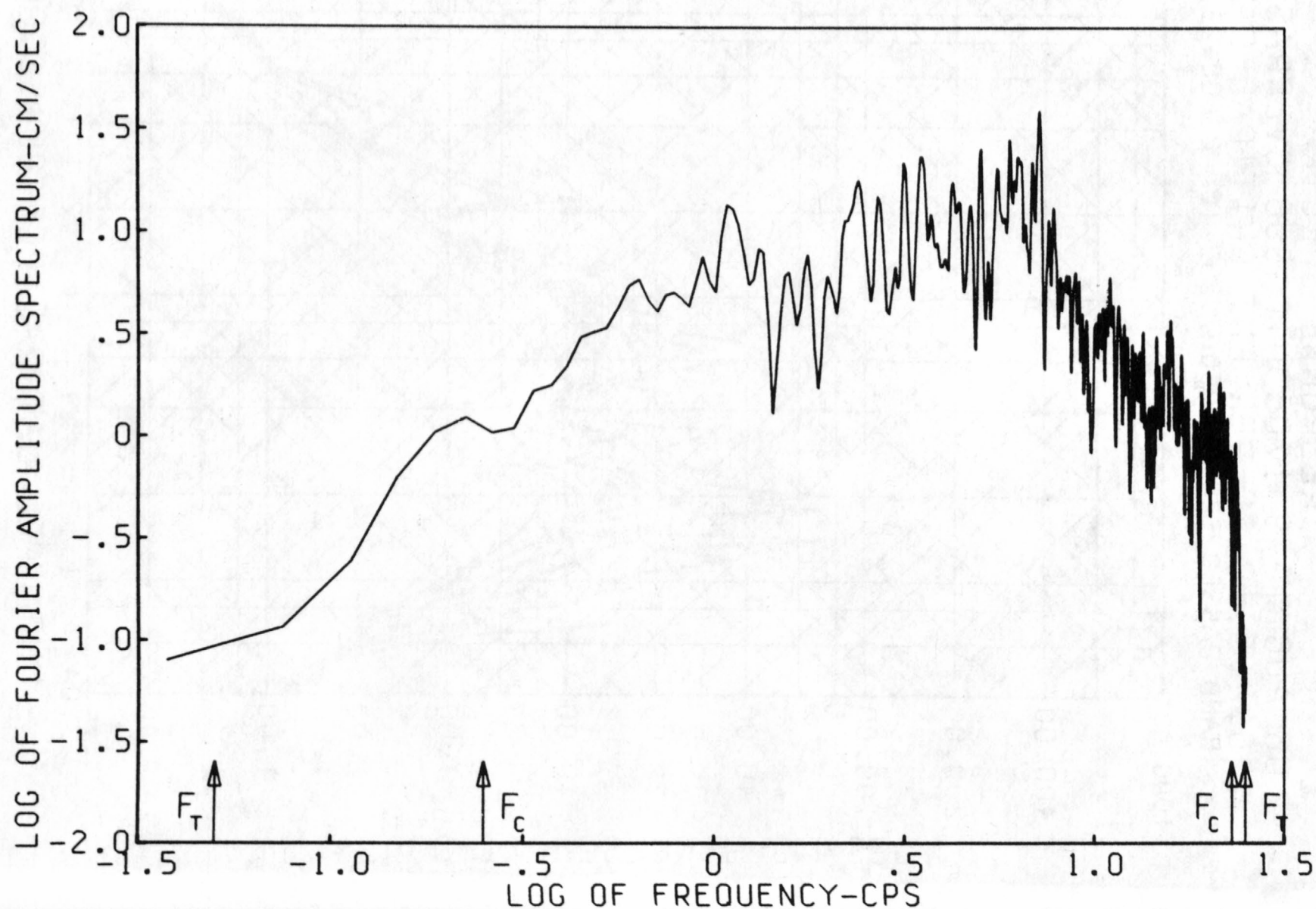


RESPONSE SPECTRA

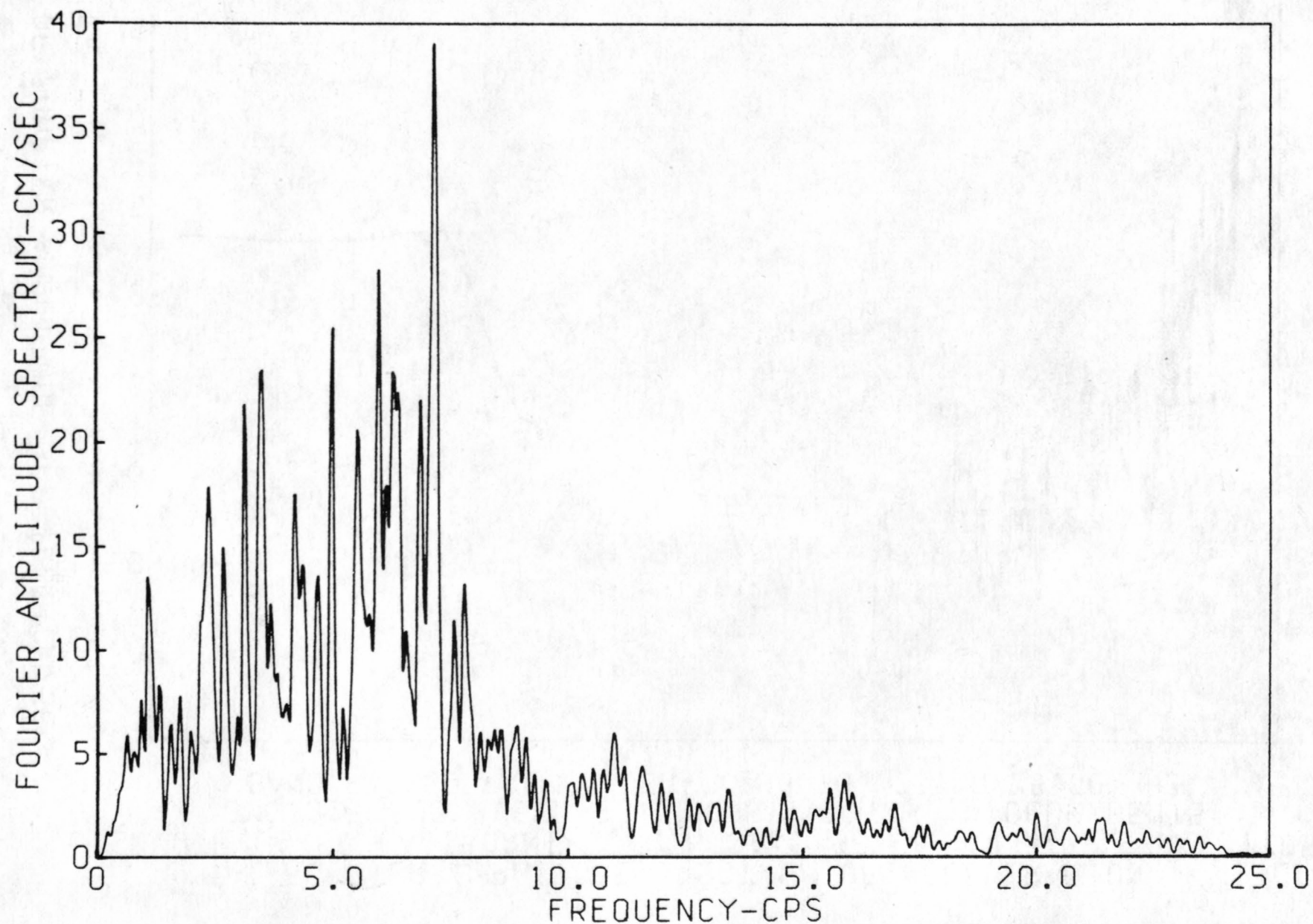
06 AUG 1979 1705 UTC SJB OVERPASS TR 9
 0,2,5,10,20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



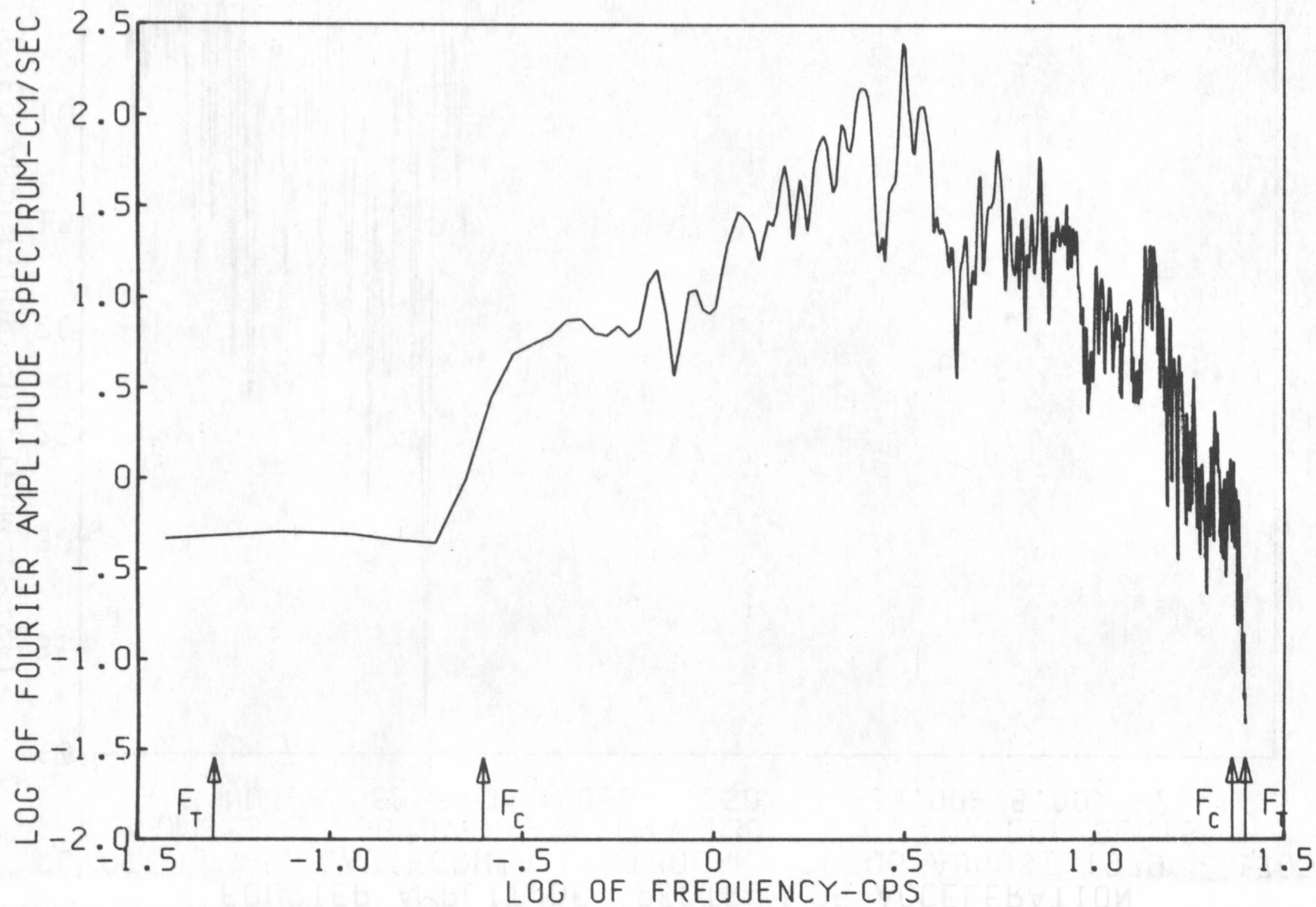
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 7 D/DECK/BENTS
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



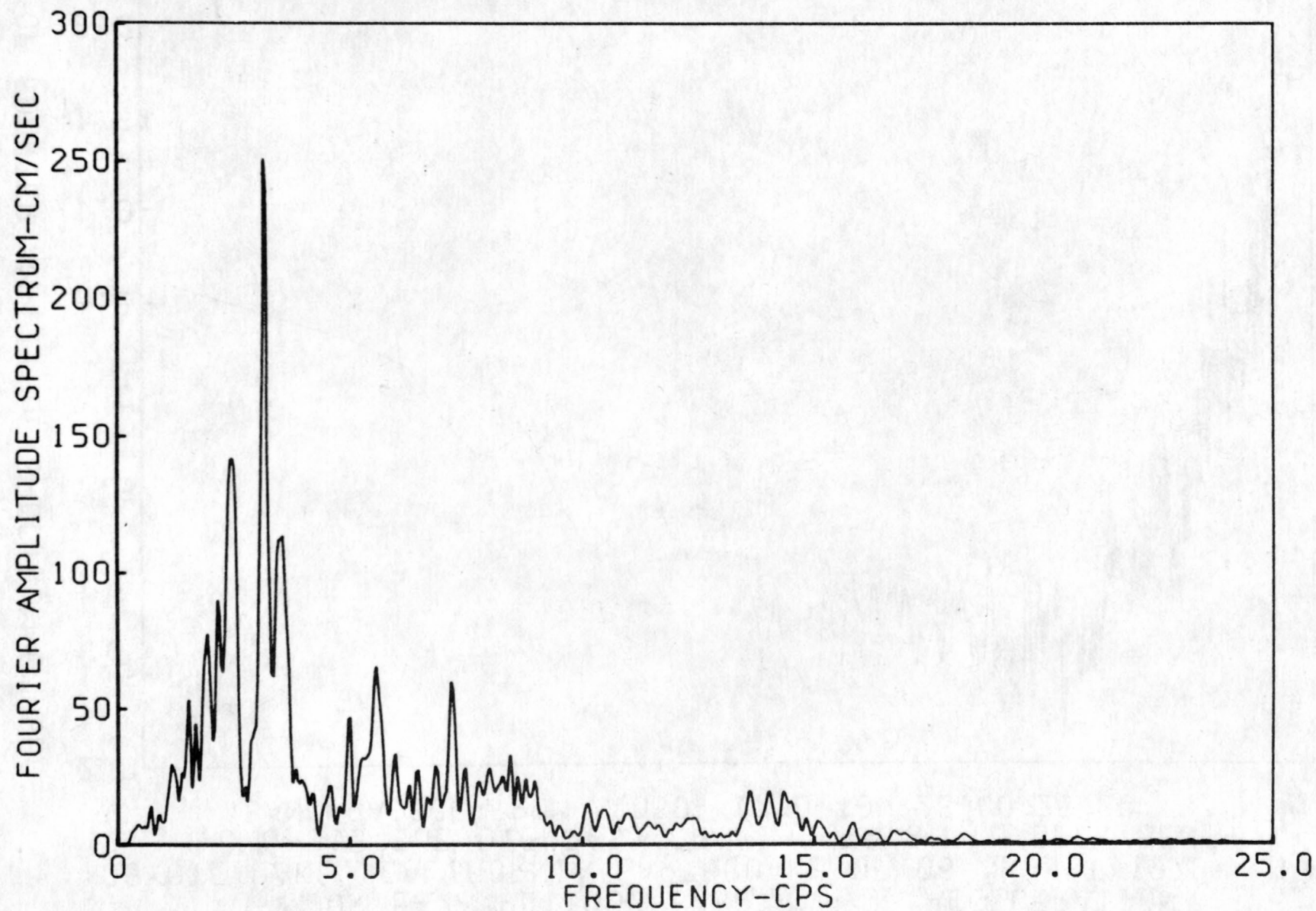
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 7 D/DECK/BENT5
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



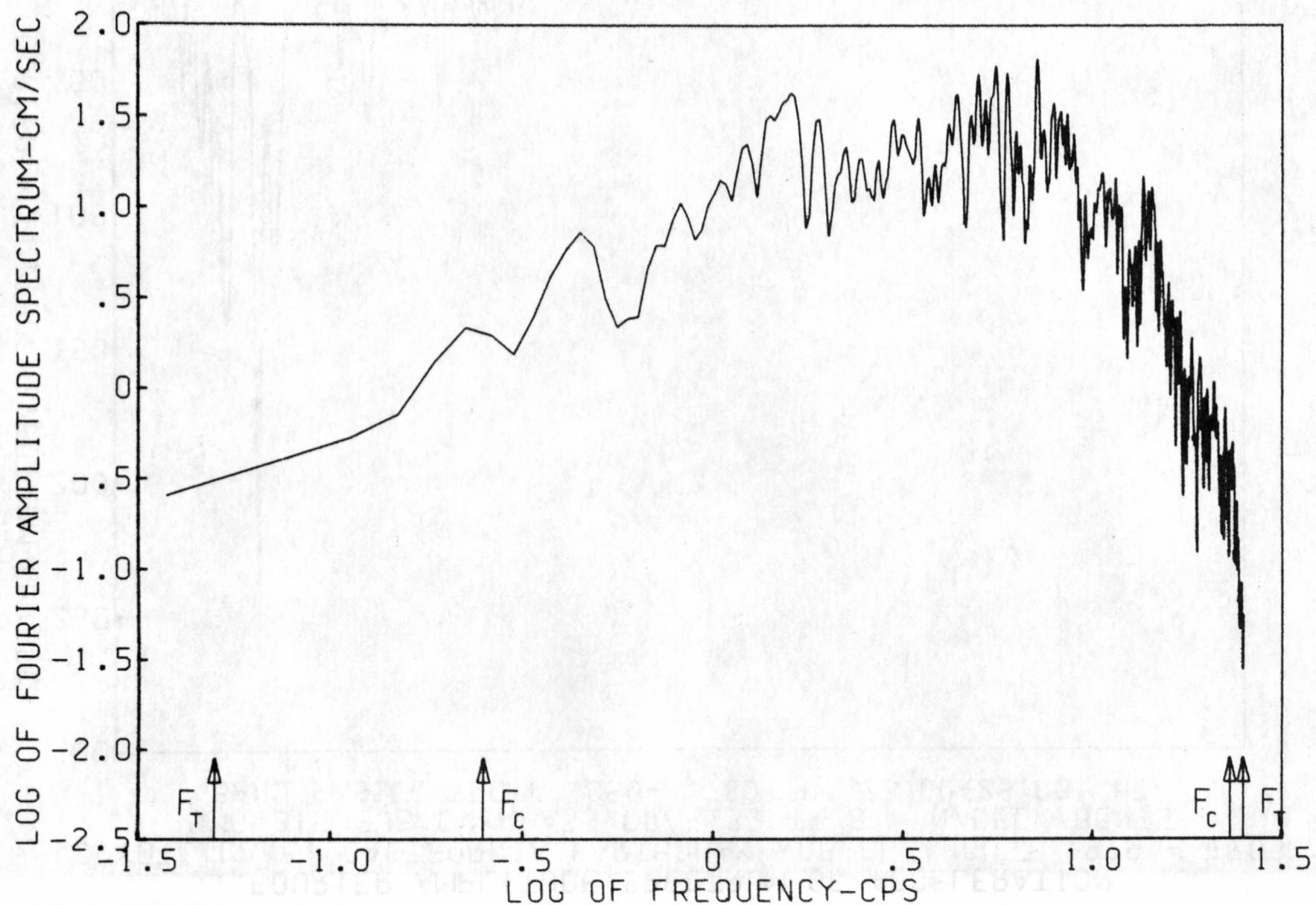
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 8 N/DECK/BENTS
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



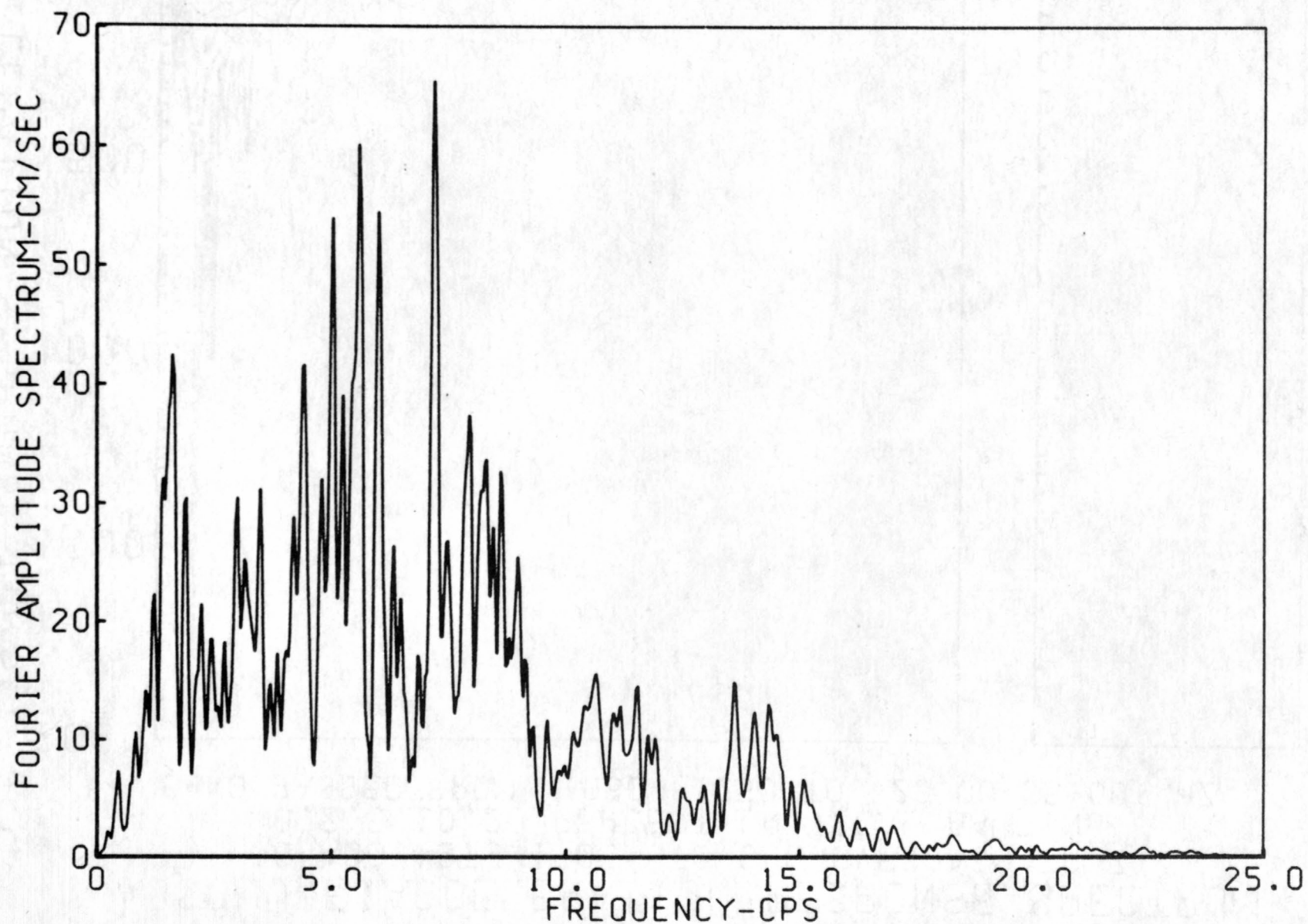
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 8 N/DECK/BENTS
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 9 E/DECK/BENT4
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 9 E/DECK/BENT4
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

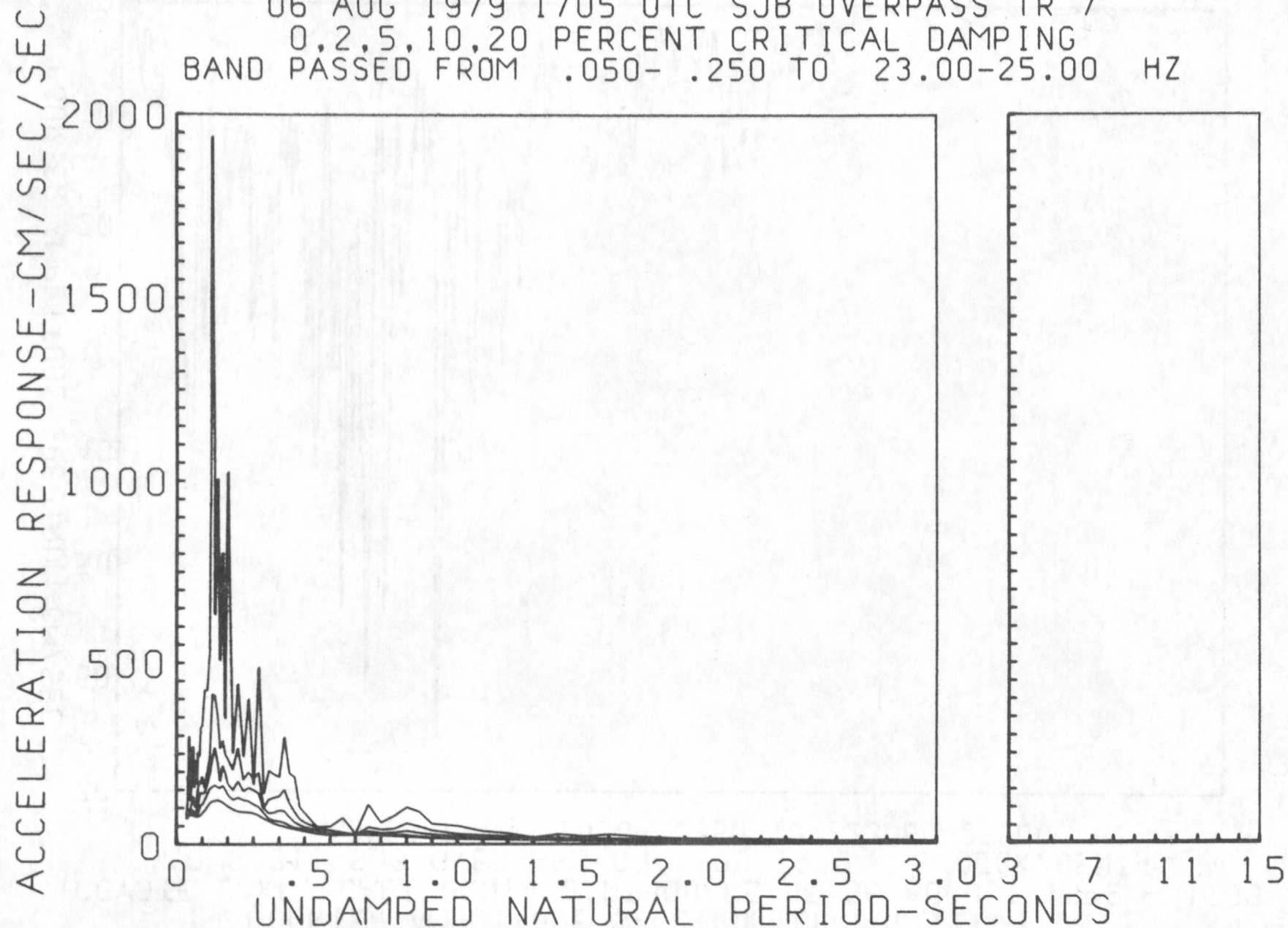


ABSOLUTE ACCELERATION RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB OVERPASS TR 7

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



ABSOLUTE ACCELERATION RESPONSE SPECTRUM

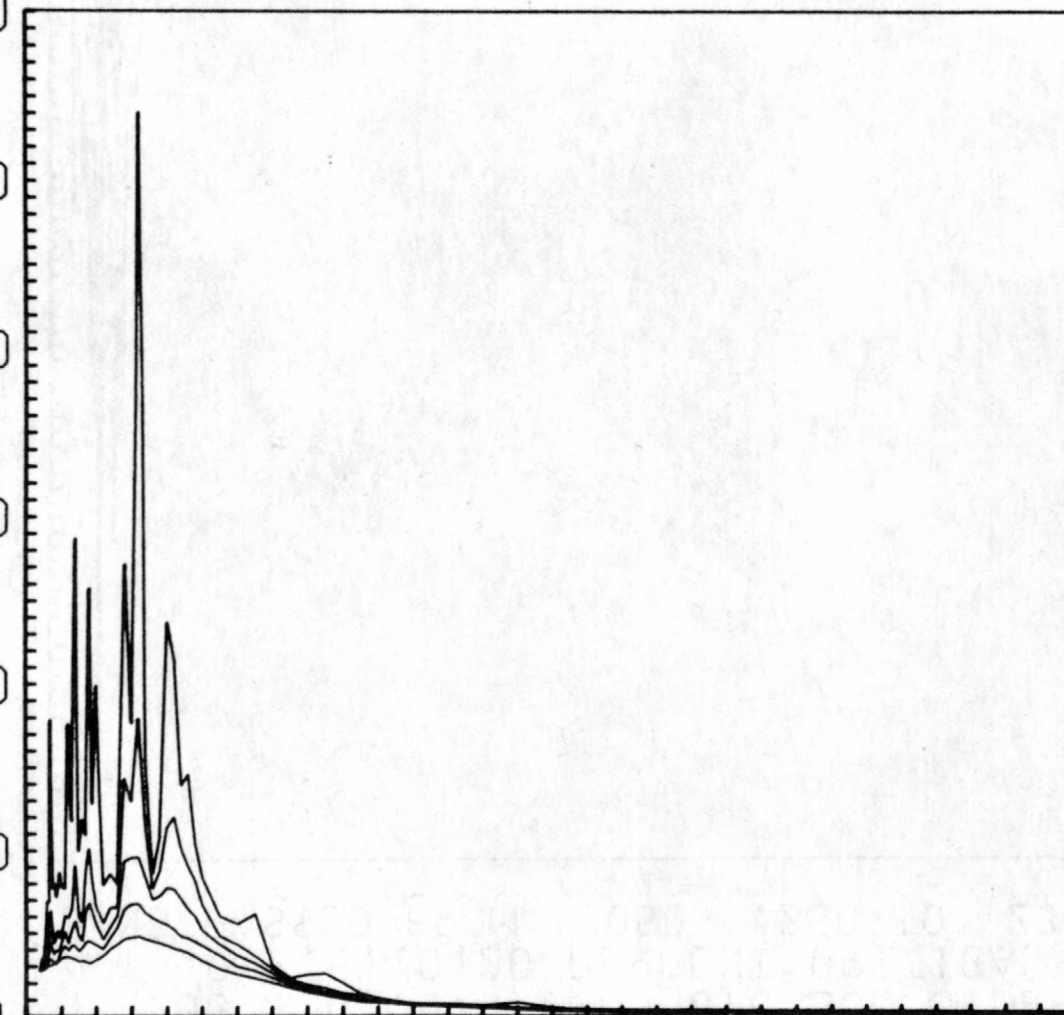
06 AUG 1979 1705 UTC SJB OVERPASS TR 8

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

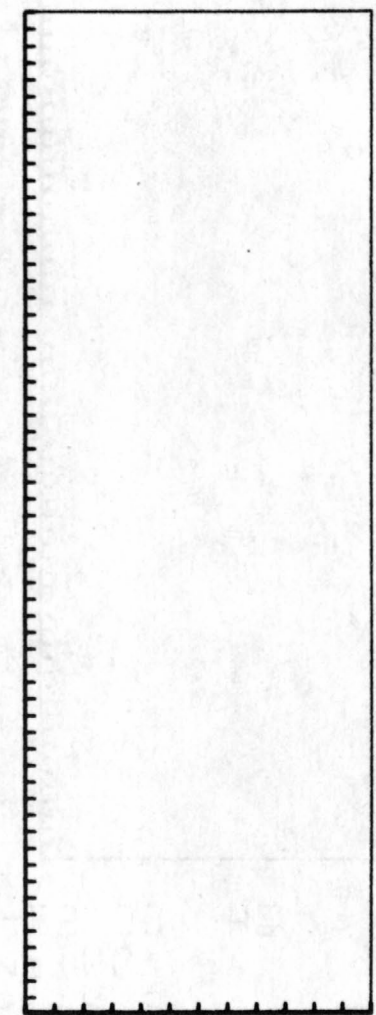
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

ACCELERATION RESPONSE-CM/SEC/SEC

6000
5000
4000
3000
2000
1000
0



UNDAMPED NATURAL PERIOD-SECONDS



3 7 11 15

ABSOLUTE ACCELERATION RESPONSE SPECTRUM

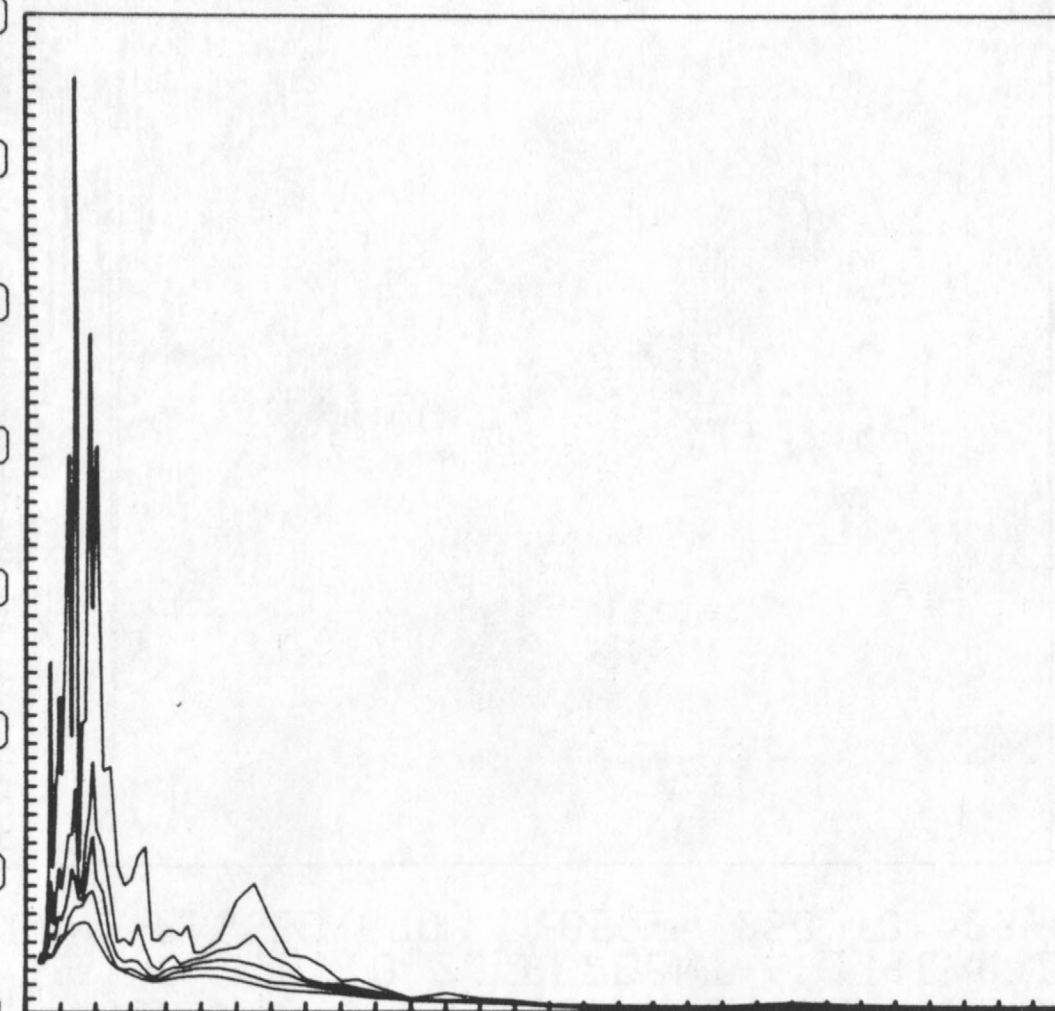
06 AUG 1979 1705 UTC SJB OVERPASS TR 9

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

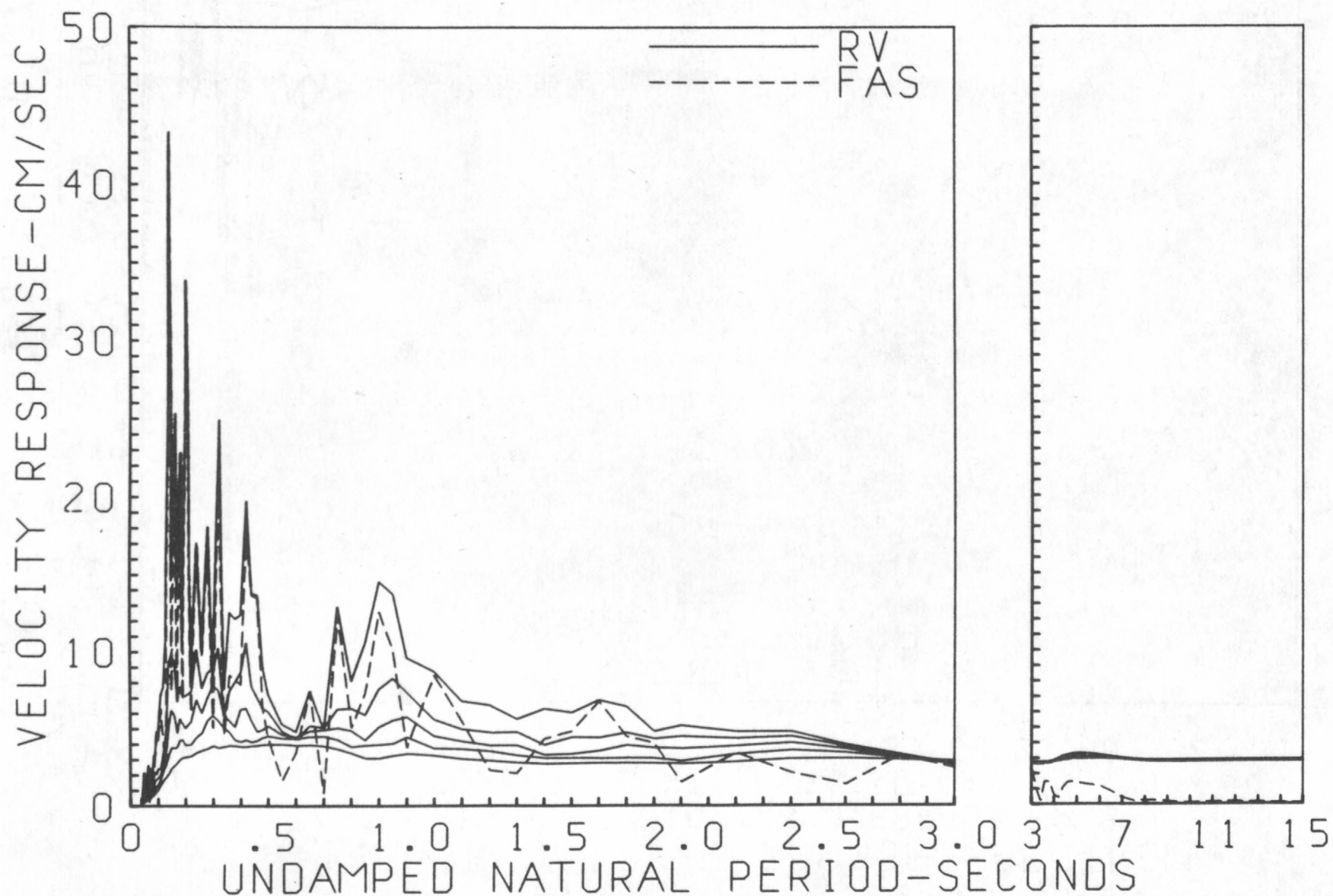
06
ACCELERATION RESPONSE-CM/SEC/SEC

3500
3000
2500
2000
1500
1000
500
0

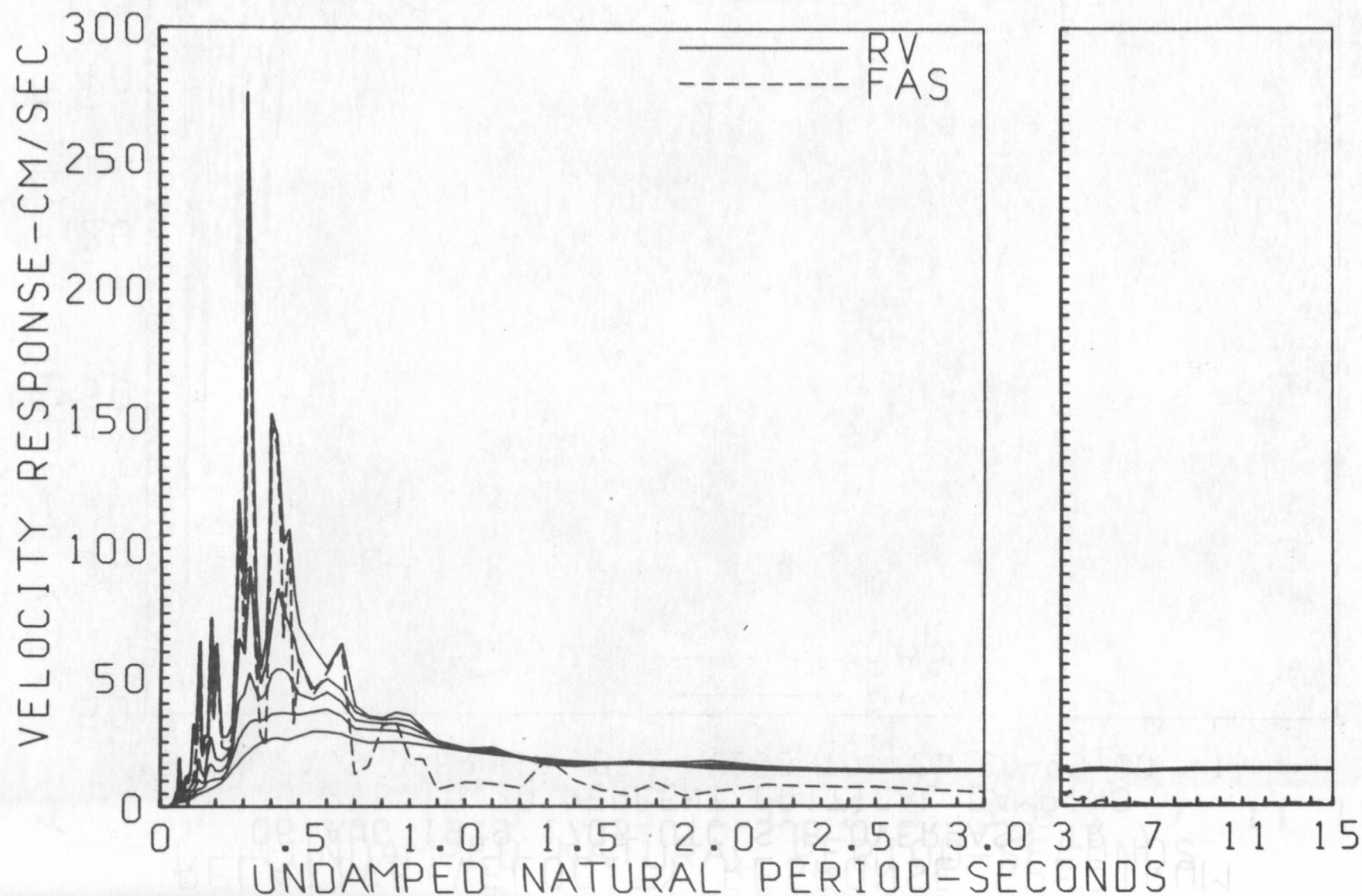


UNDAMPED NATURAL PERIOD-SECONDS
0 .5 1.0 1.5 2.0 2.5 3.0 3 7 11 15

RELATIVE VELOCITY RESPONSE SPECTRUM
06 AUG 1979 1705 UTC SJB OVERPASS TR 7
0.2,5,10,20 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



RELATIVE VELOCITY RESPONSE SPECTRUM
06 AUG 1979 1705 UTC SJB OVERPASS TR 8
0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

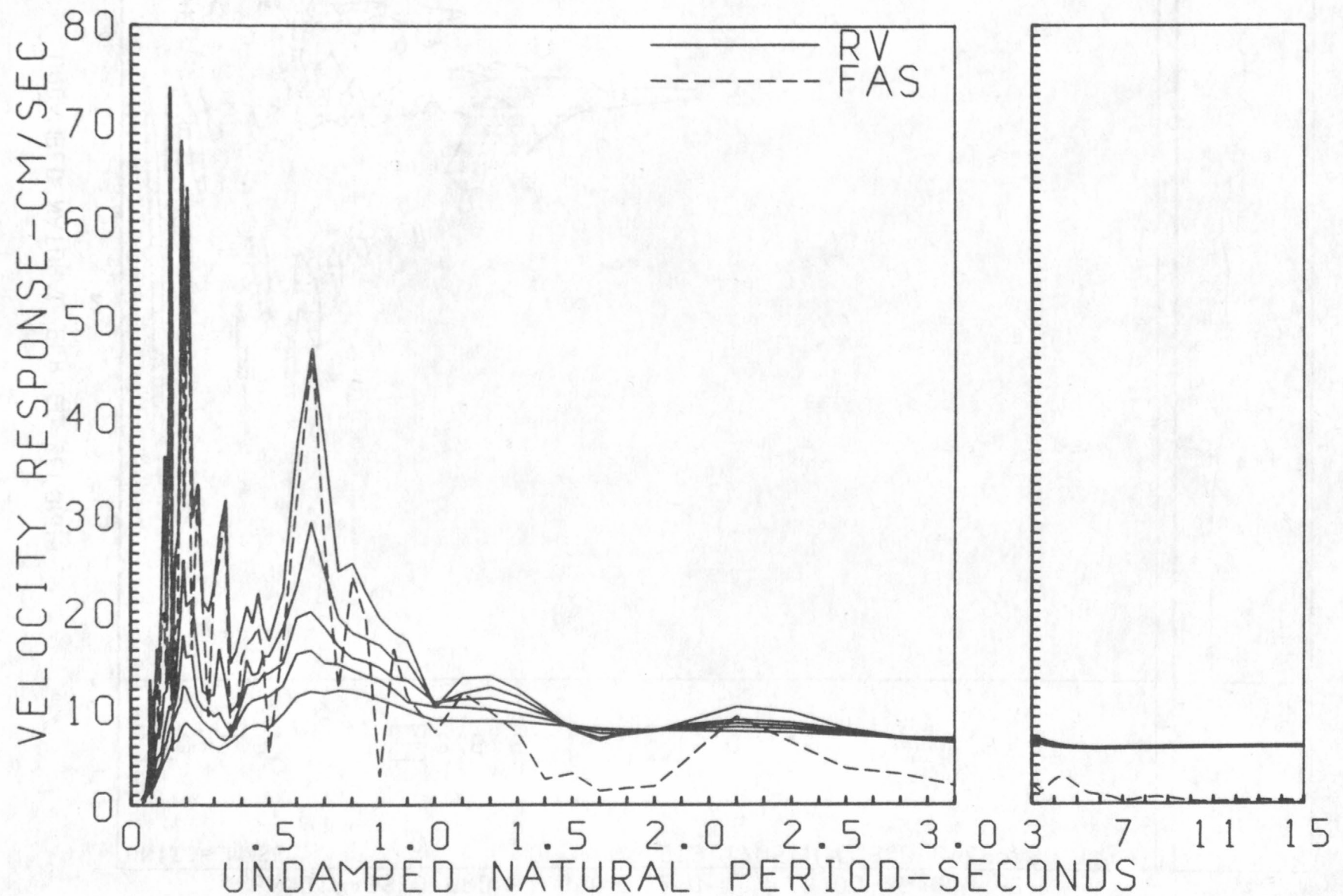


RELATIVE VELOCITY RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB OVERPASS TR 9

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

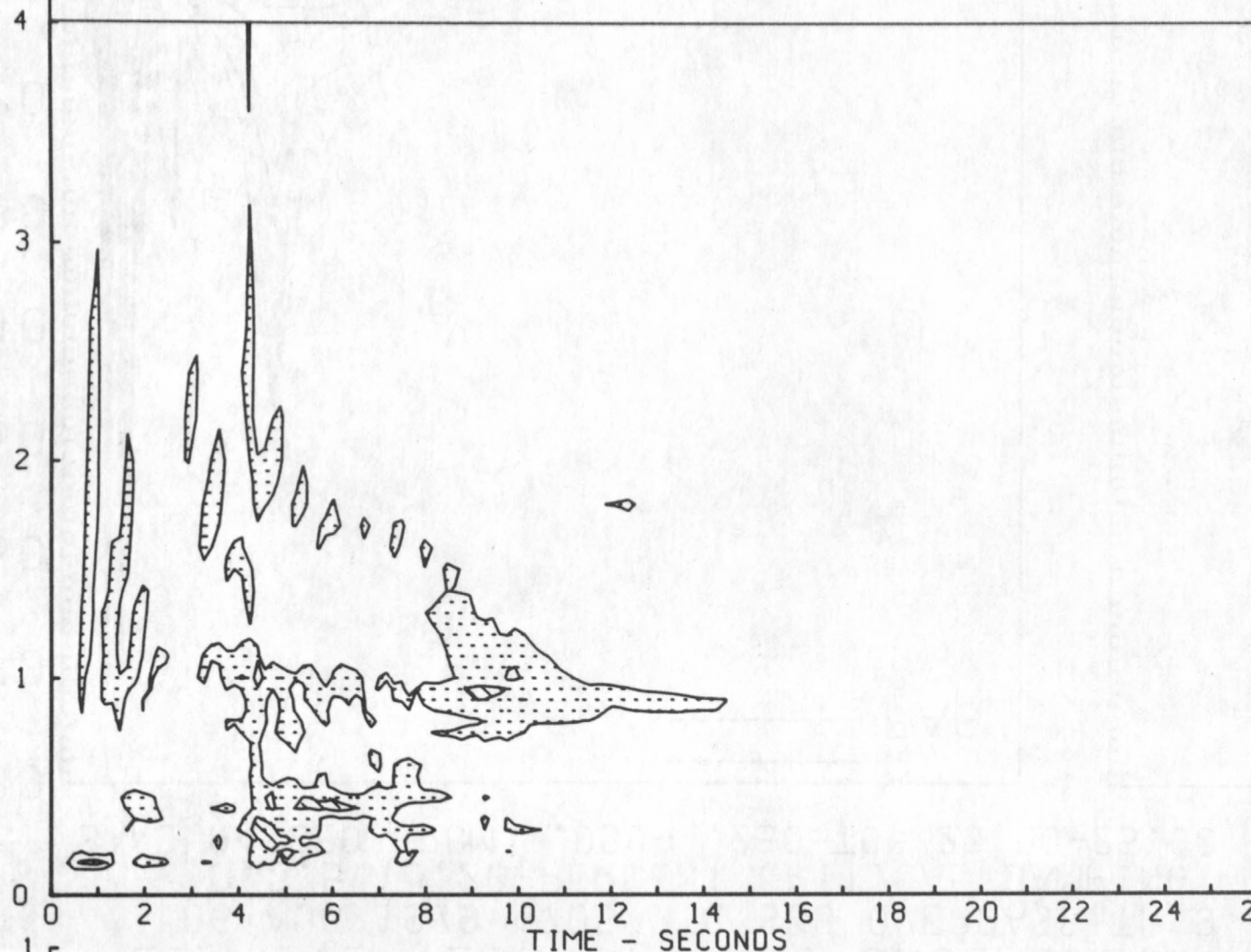
UNITS=CM/SEC

06 AUG 1979 1705 UTC SJB OVERPASS TR 7

0-2.5, 2.5-5.0, 5.0-7.5, 7.5+

UNDAMPED NATURAL PERIOD-SECONDS

CEL-G/10



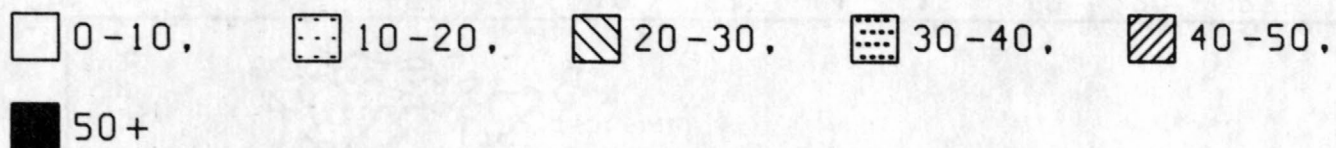
VELOCITY
CM/SEC

0 5 10

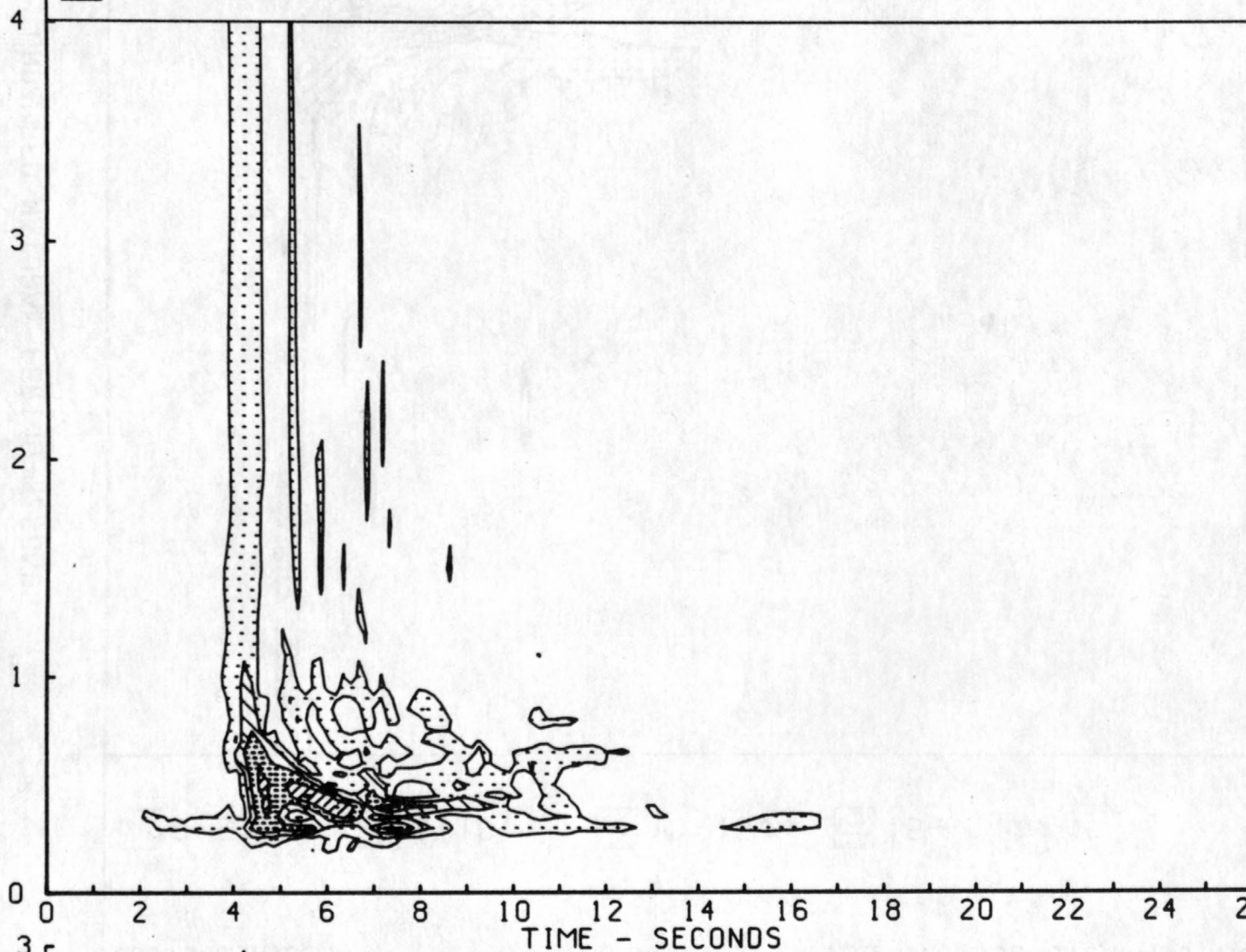
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

UNITS=CM/SEC

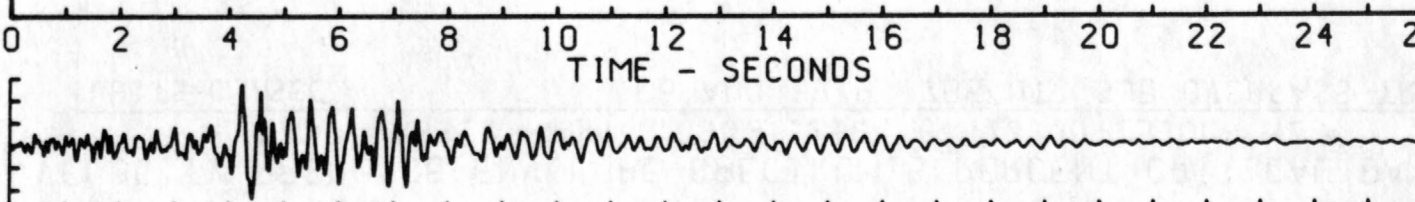
06 AUG 1979 1705 UTC SJB OVERPASS TR 8



UNDAMPED NATURAL PERIOD-SECONDS



CCEL-G/10



VELOCITY
CM/SEC

0 60

VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

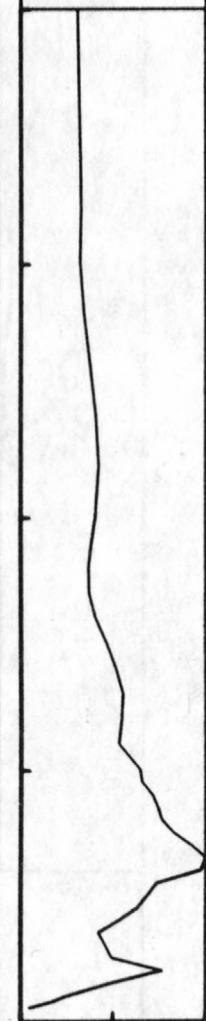
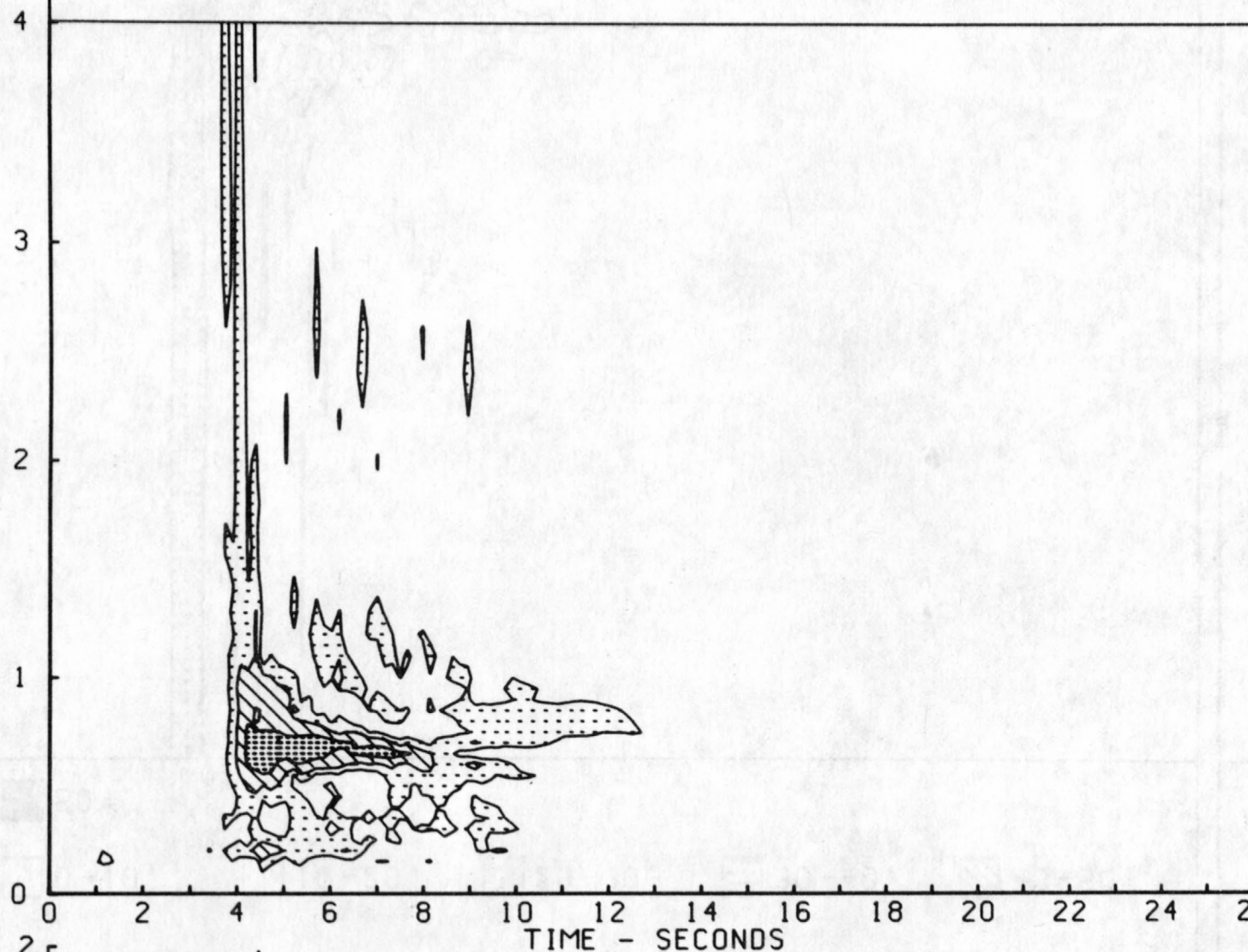
UNITS=CM/SEC

06 AUG 1979 1705 UTC SJB OVERPASS TR 9

0-5, 5-10, 10-15, 15+

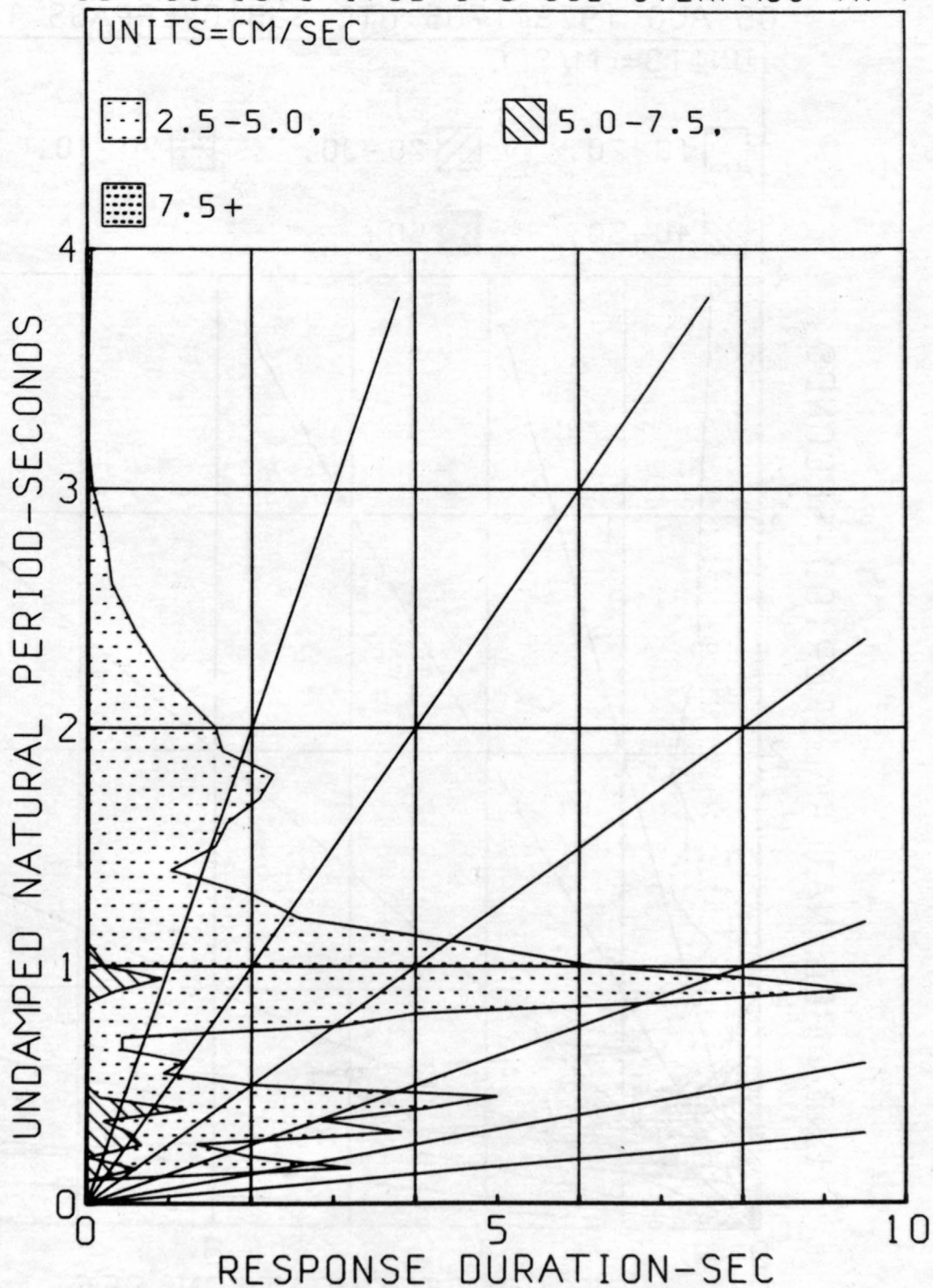
UNDAMPED NATURAL PERIOD-SECONDS

CEL-G/10

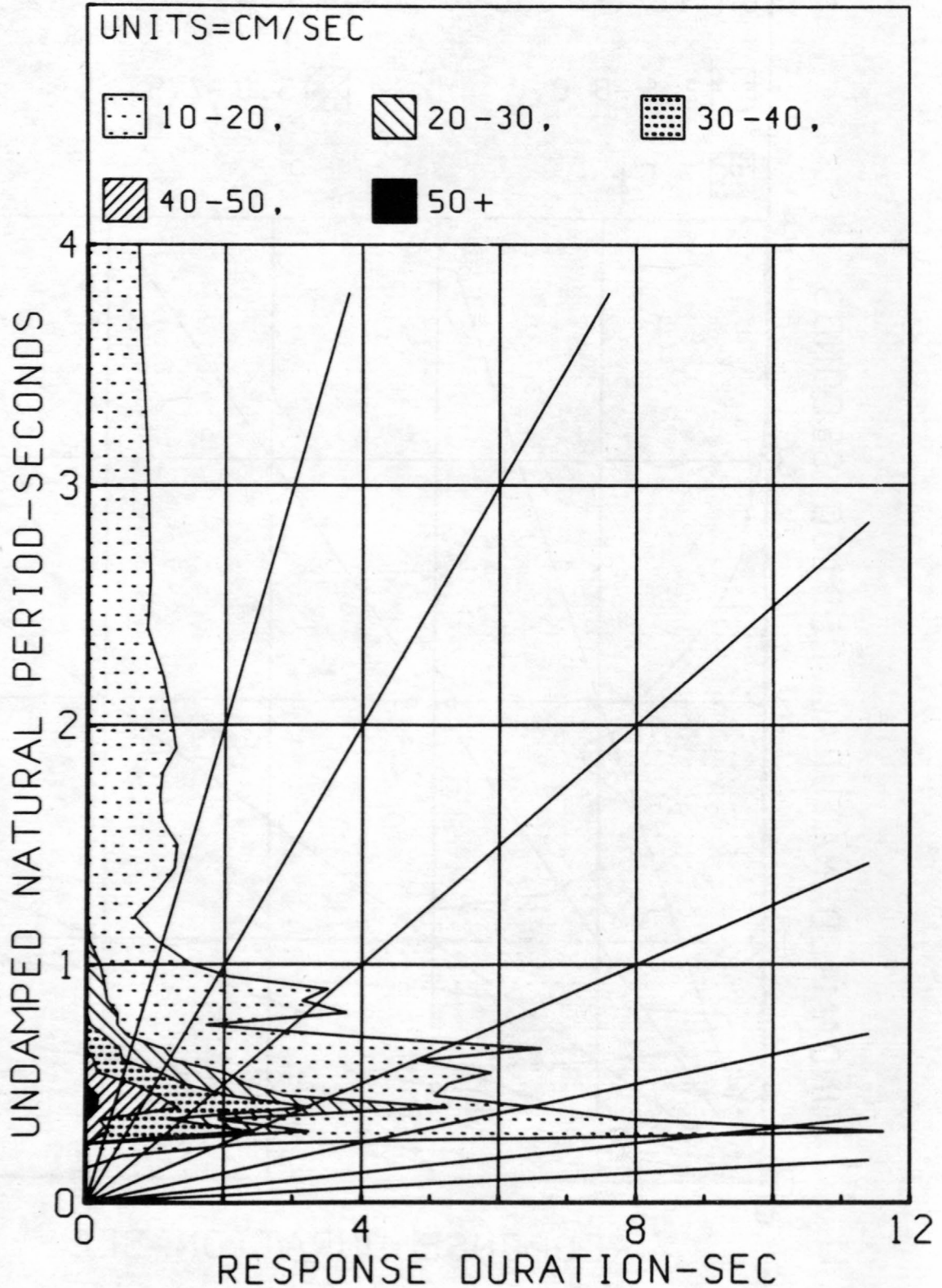


VELOCITY
CM/SEC

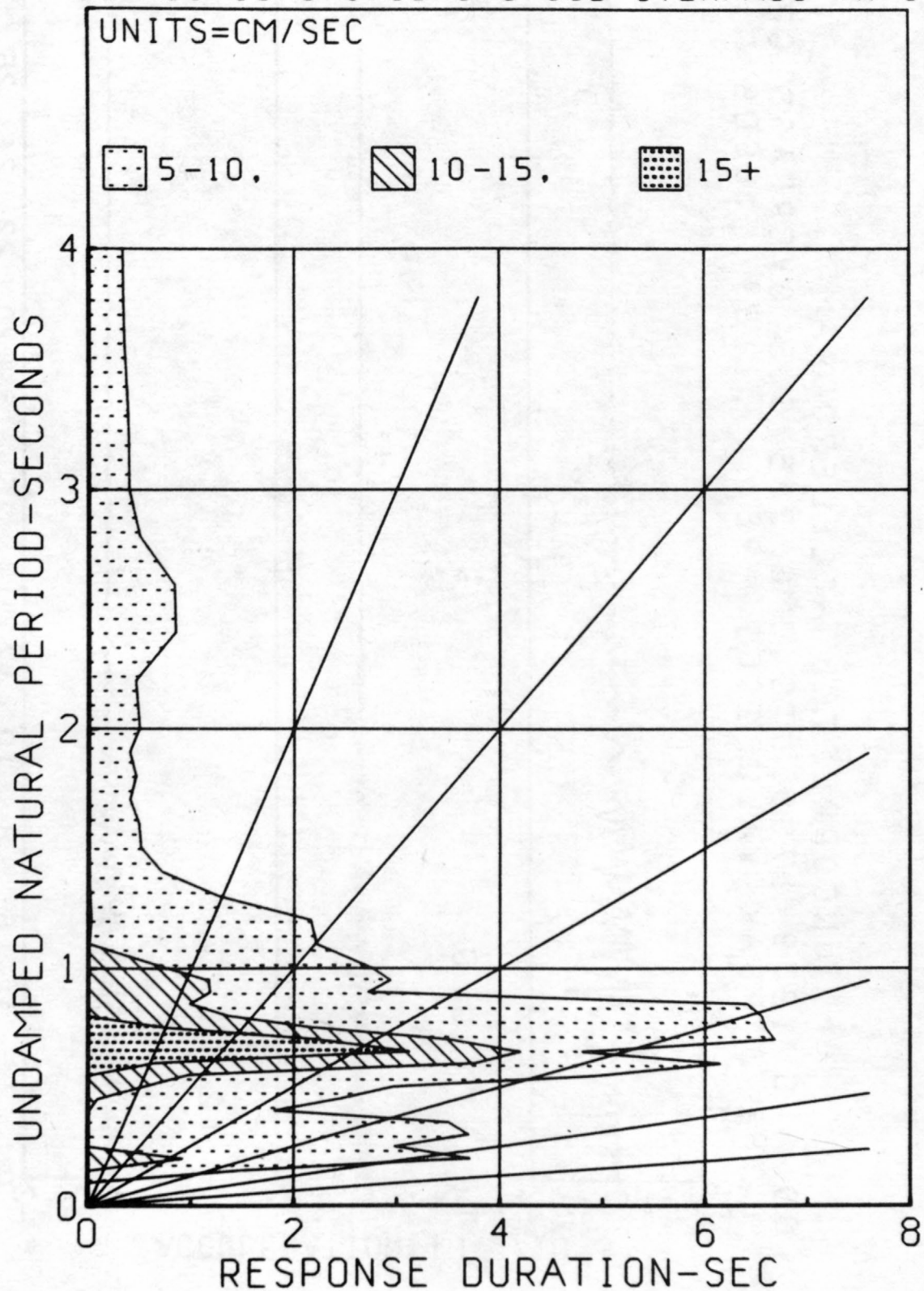
DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 7



DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 8



DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 9

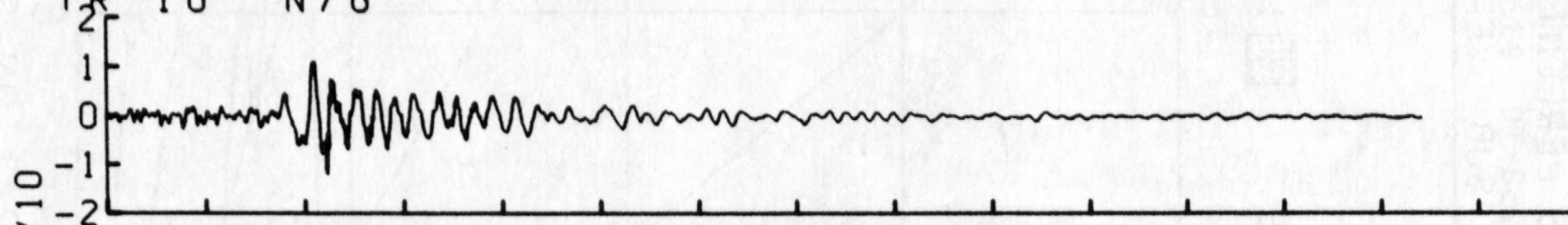


UNCORRECTED ACCELEROGRAM

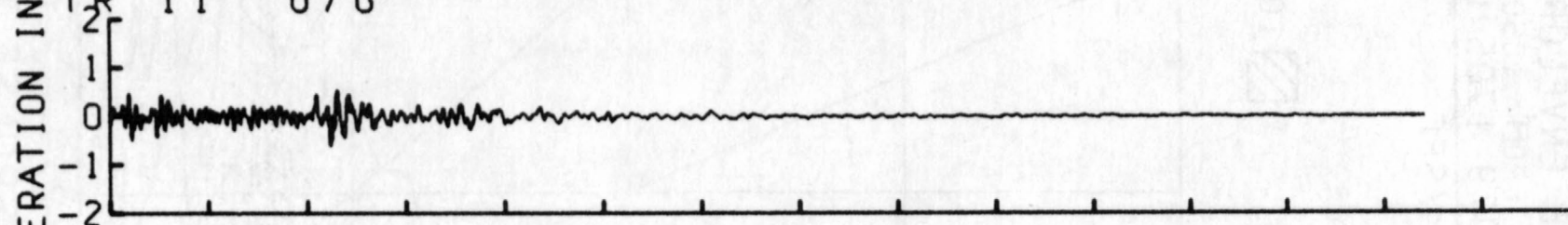
06 AUG 1979 1705 UTC DMG 315 SJB OVERPASS CRA 139

THE 3 PEAK VALUES(G) ARE .1184 .0609 .1061

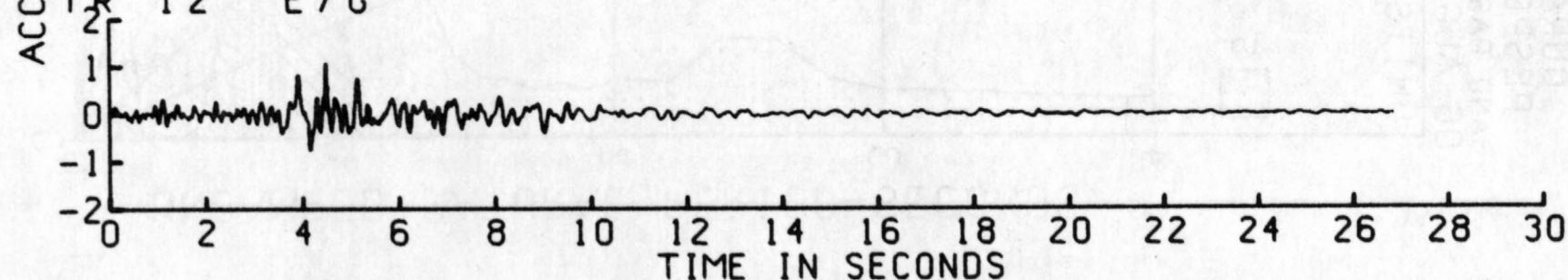
TR 10 N/G



TR 11 U/G



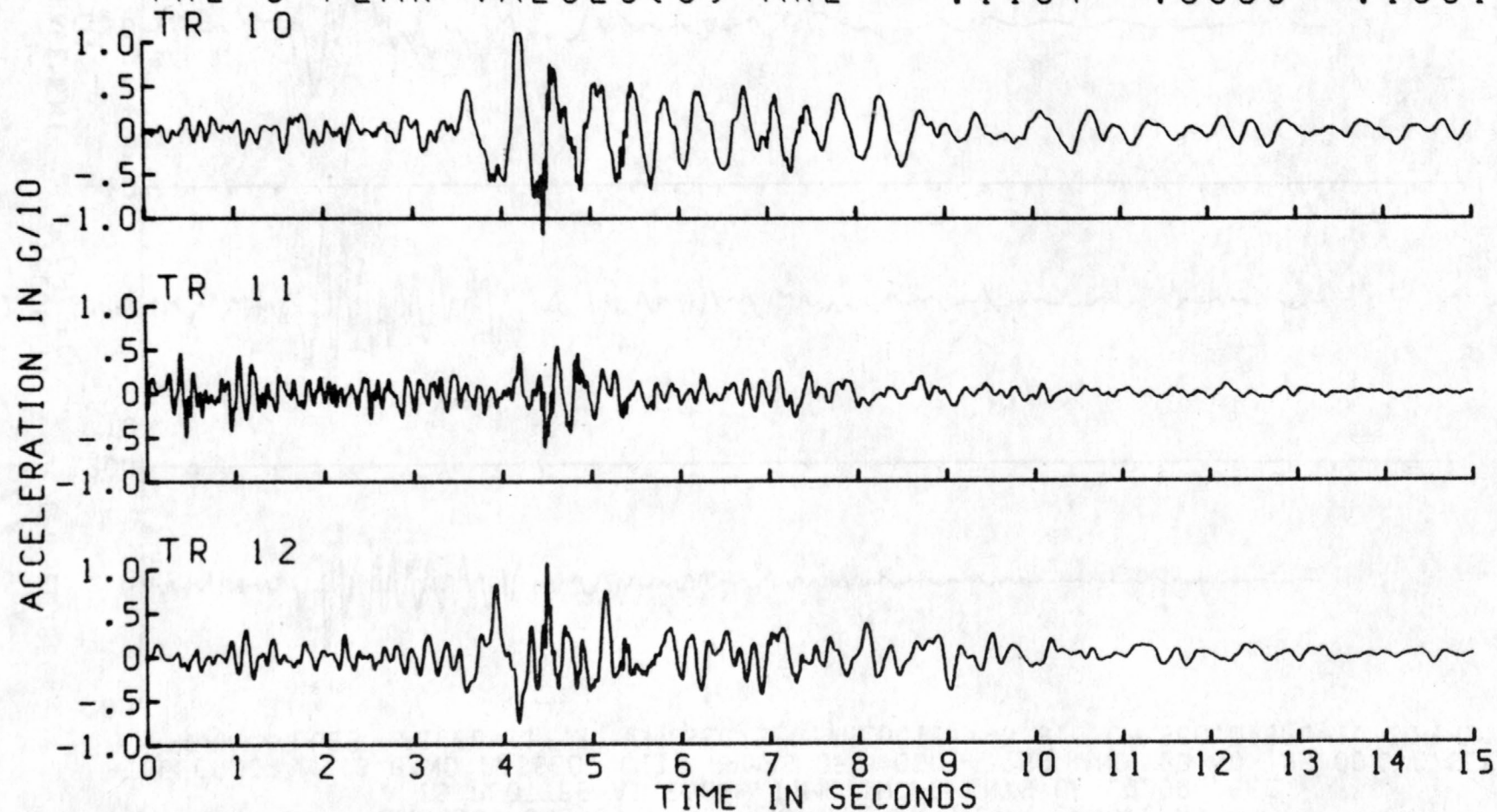
TR 12 E/G



UNCORRECTED ACCELEROGRAM

06 AUG 1979 1705 UTC DMG 315 SJB OVERPASS CRA 139

THE 3 PEAK VALUES(G) ARE .1184 .0609 .1061



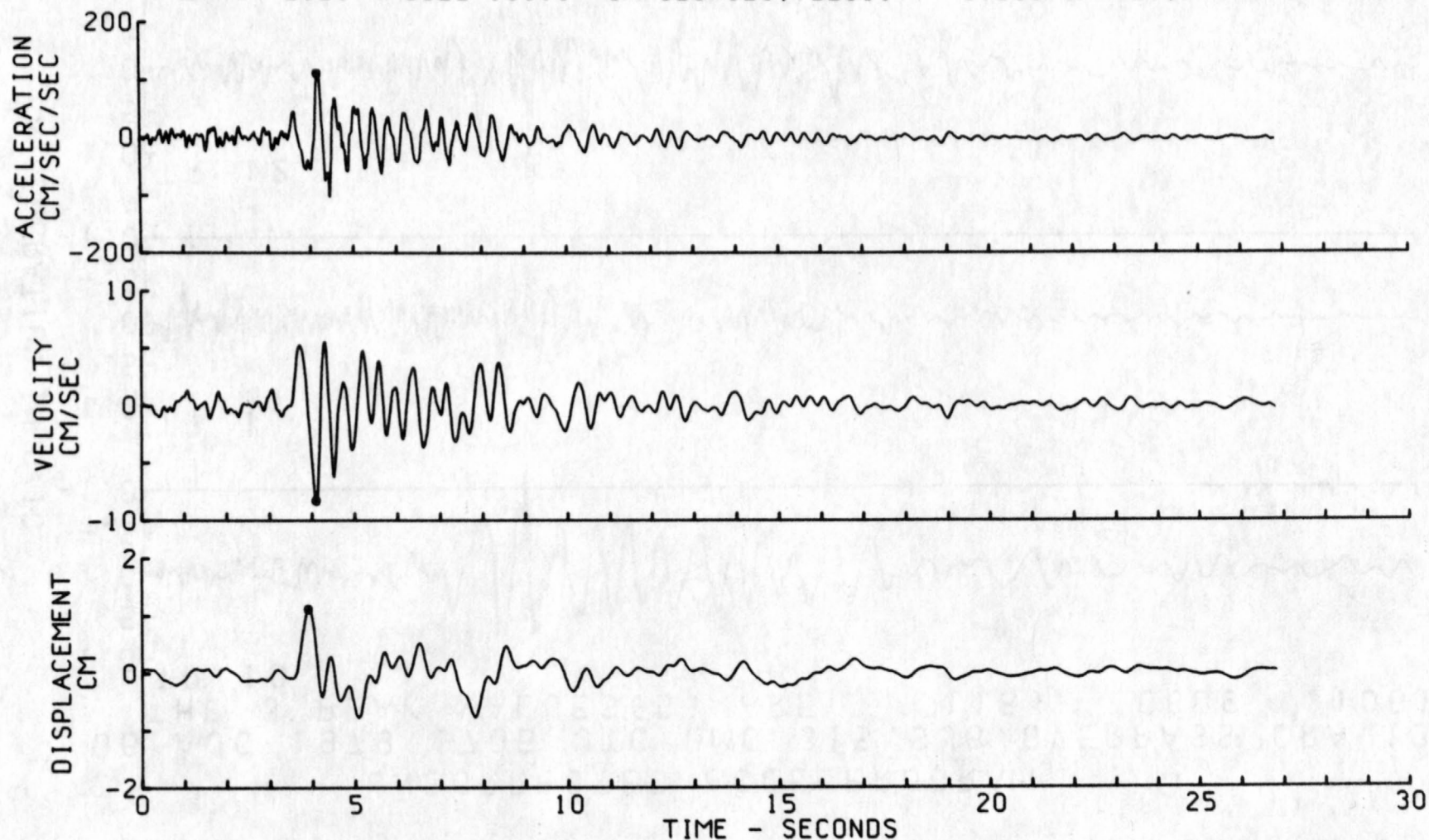
CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705

DMG 315 SJB OVERPASS CRA 139 TR 10 N/GRND/BENT3

DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC

ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC

• PEAK VALUES ACCEL=111.1 CM/SEC/SEC, VELOCITY=-8.310 CM/SEC, DISPL=1.120 CM



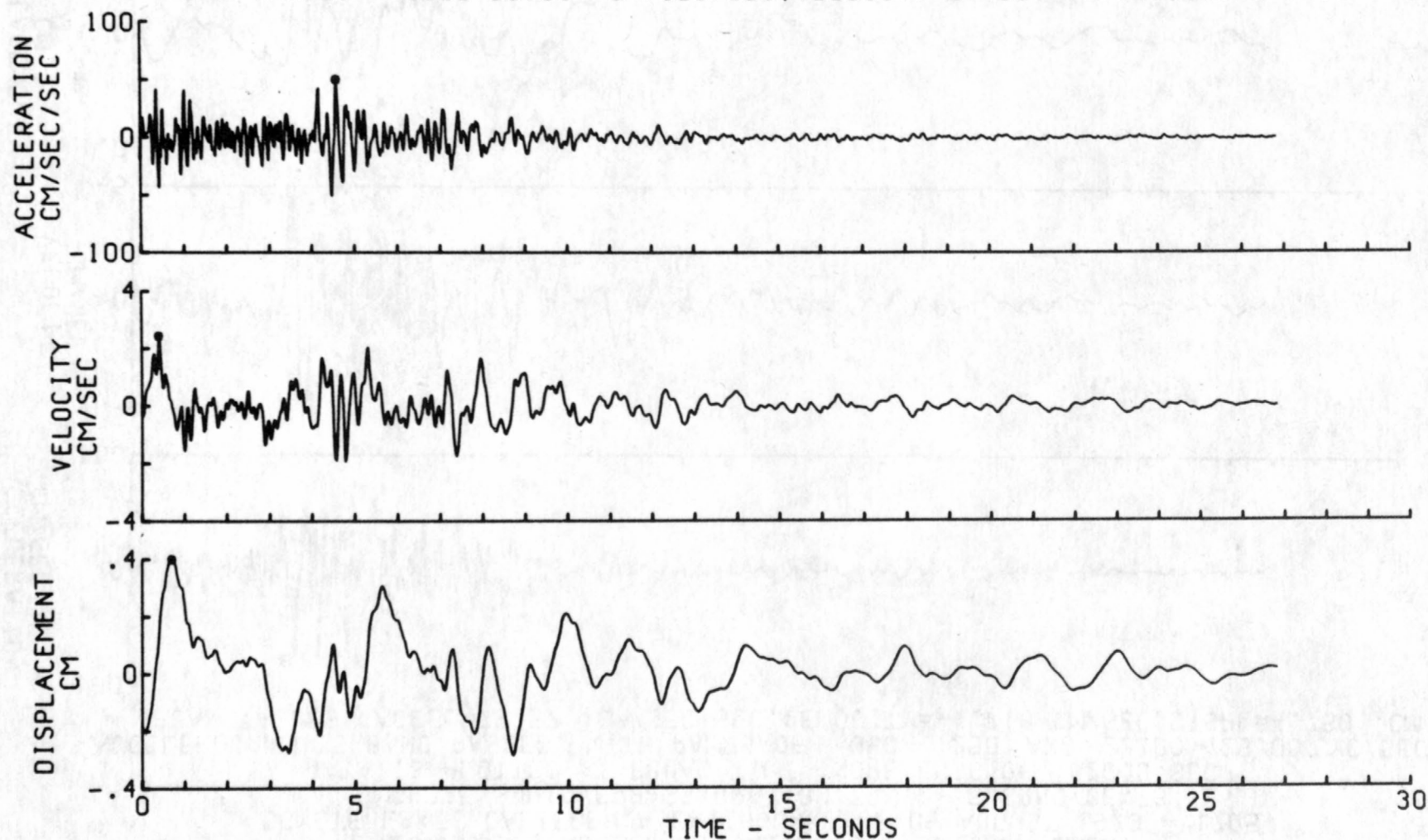
CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705

DMG 315 SJB OVERPASS CRA 139 TR 11 U/GRND/BENT3

DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC

ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC

• PEAK VALUES ACCEL=50.39 CM/SEC/SEC, VELOCITY=2.420 CM/SEC, DISPL=.400 CM



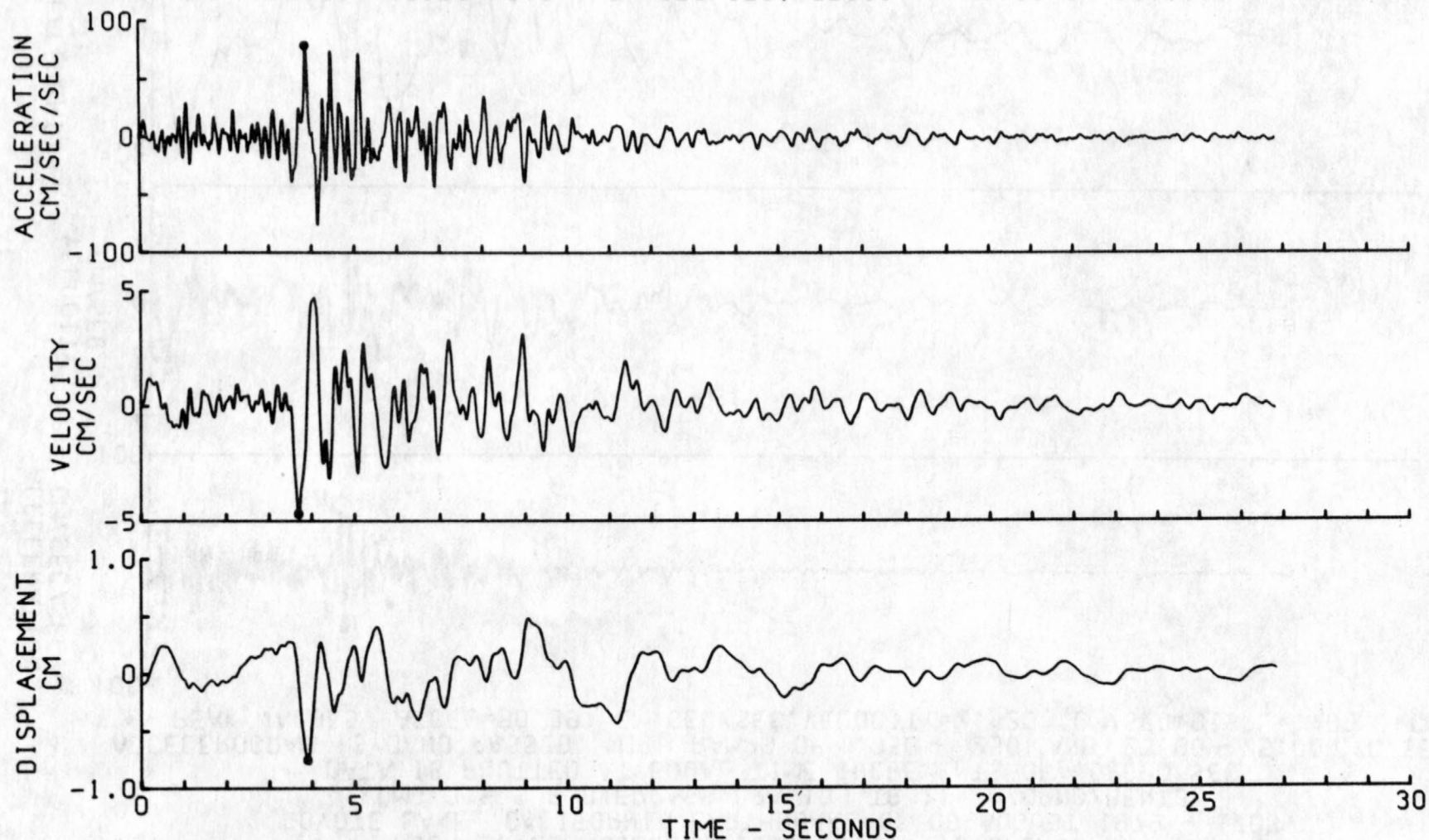
CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705

DMG 315 SJB OVERPASS CRA 139 TR 12 E/GRND/BENT3

DATA IS PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC

ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC

• PEAK VALUES ACCEL=79.57 CM/SEC/SEC, VELOCITY=-4.710 CM/SEC, DISPL=-.760 CM

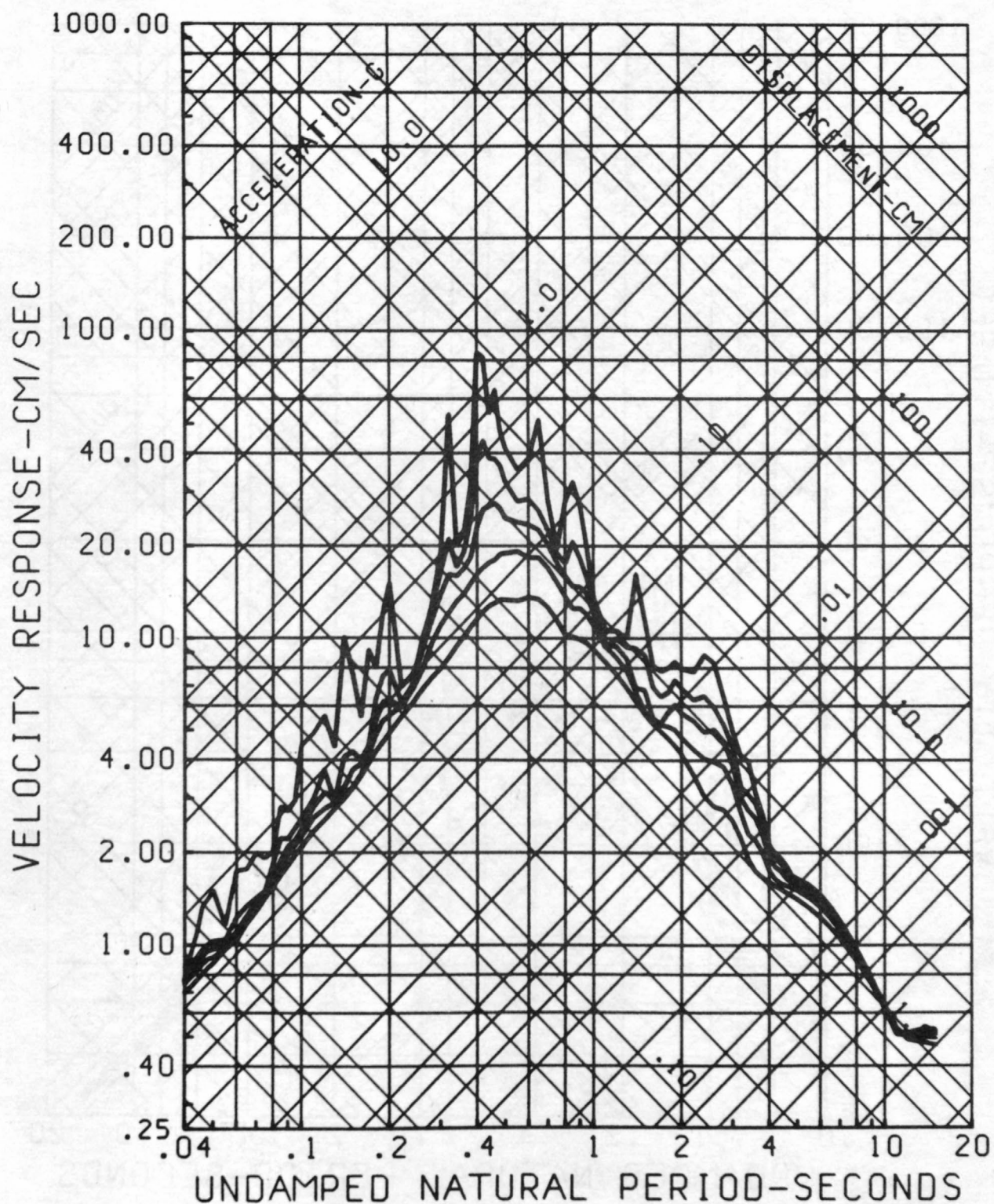


RESPONSE SPECTRA

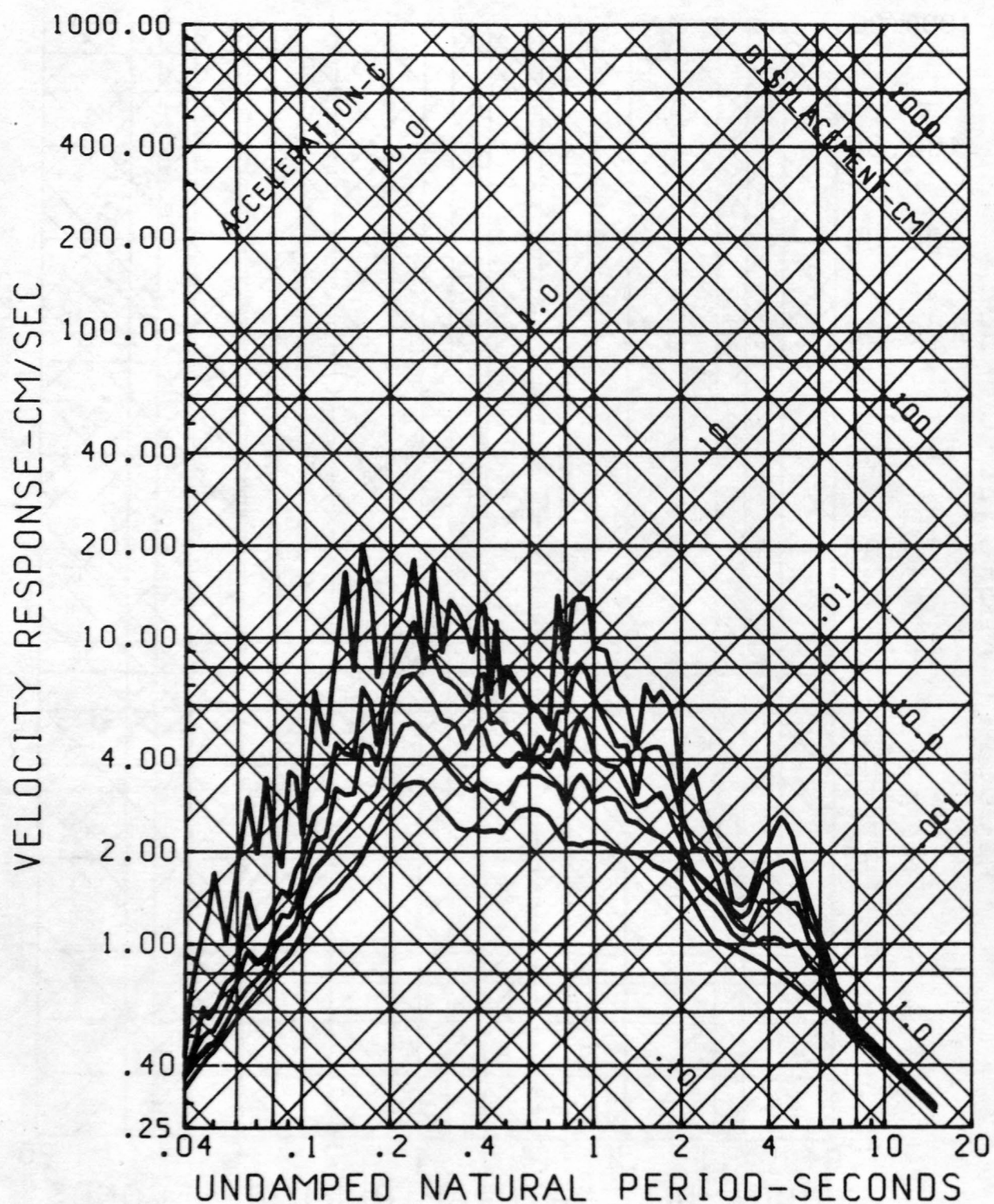
06 AUG 1979 1705 UTC SJB OVERPASS TR 10

0.2,5,10,20 PERCENT CRITICAL DAMPING

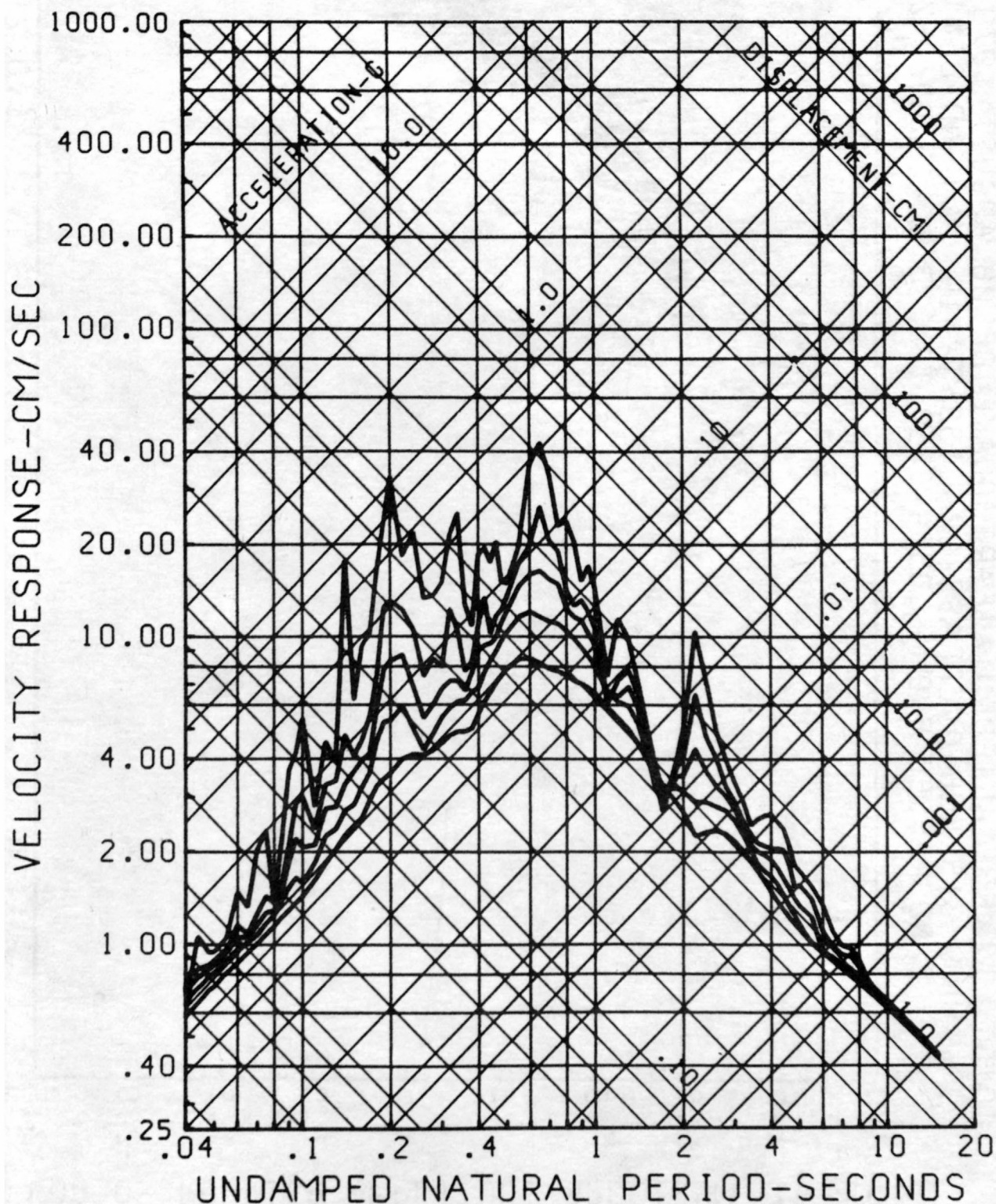
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



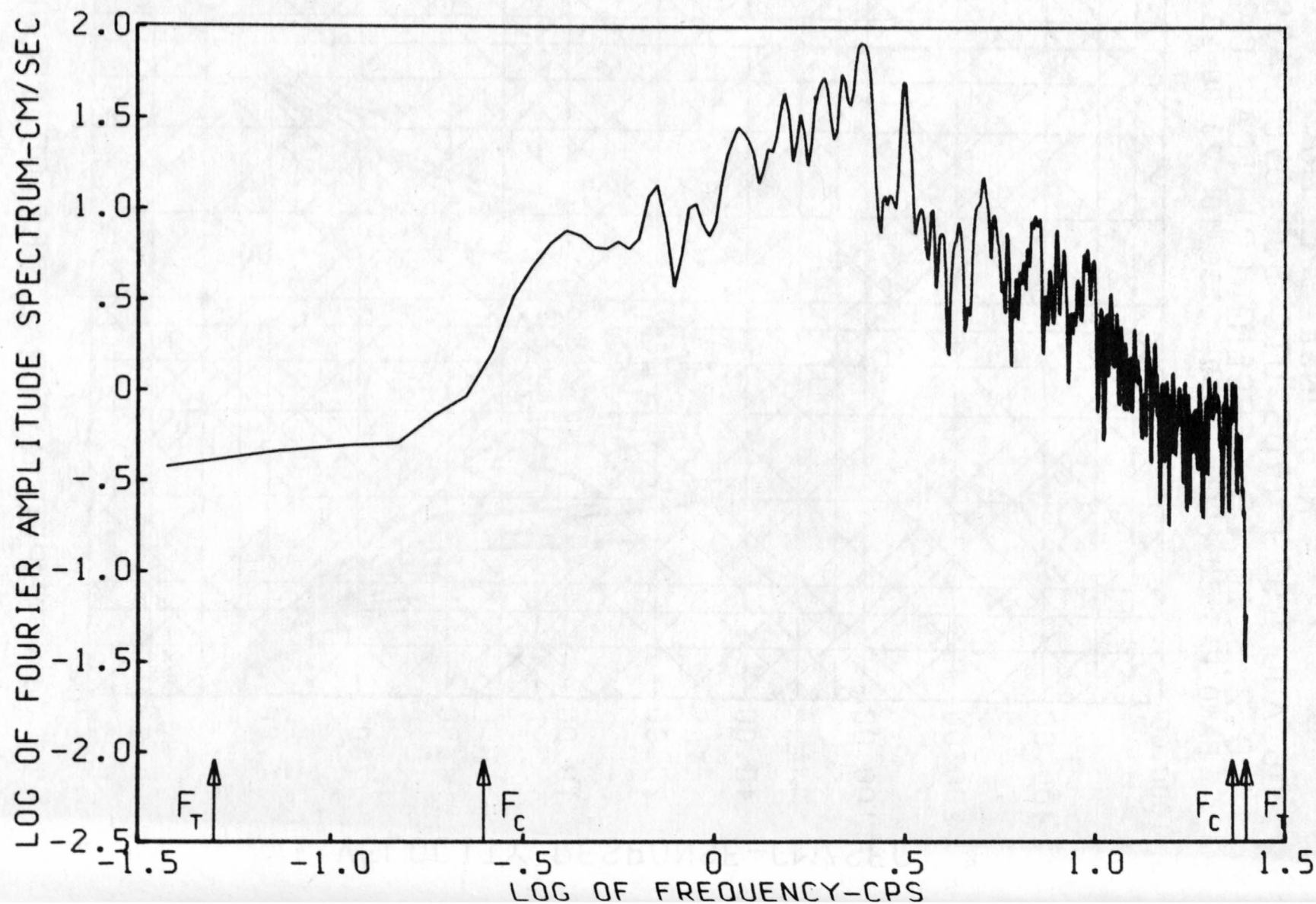
RESPONSE SPECTRA
06 AUG 1979 1705 UTC SJB OVERPASS TR 11
0.2,5,10,20 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



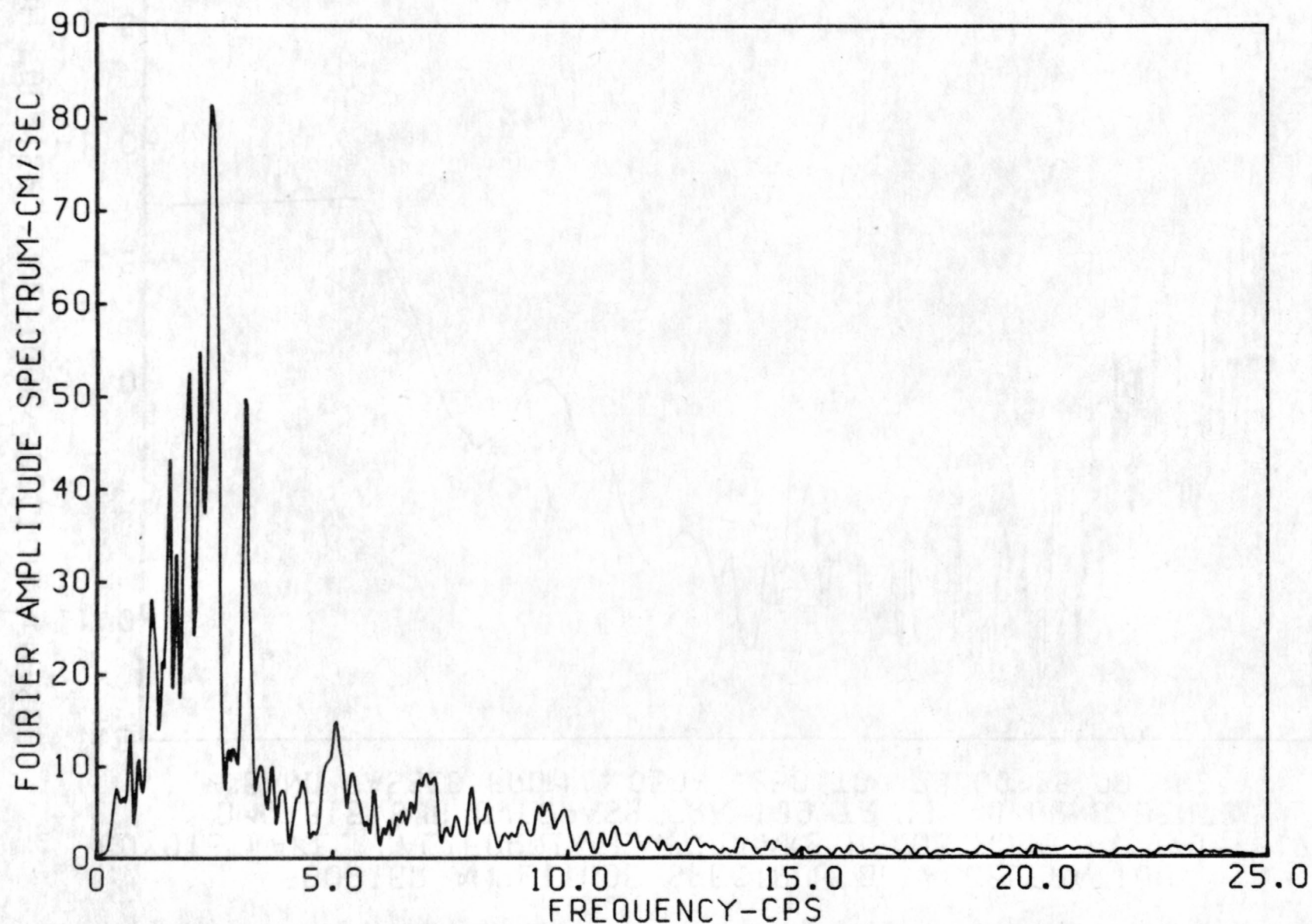
RESPONSE SPECTRA
 06 AUG 1979 1705 UTC SJB OVERPASS TR 12
 0.2,5,10,20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



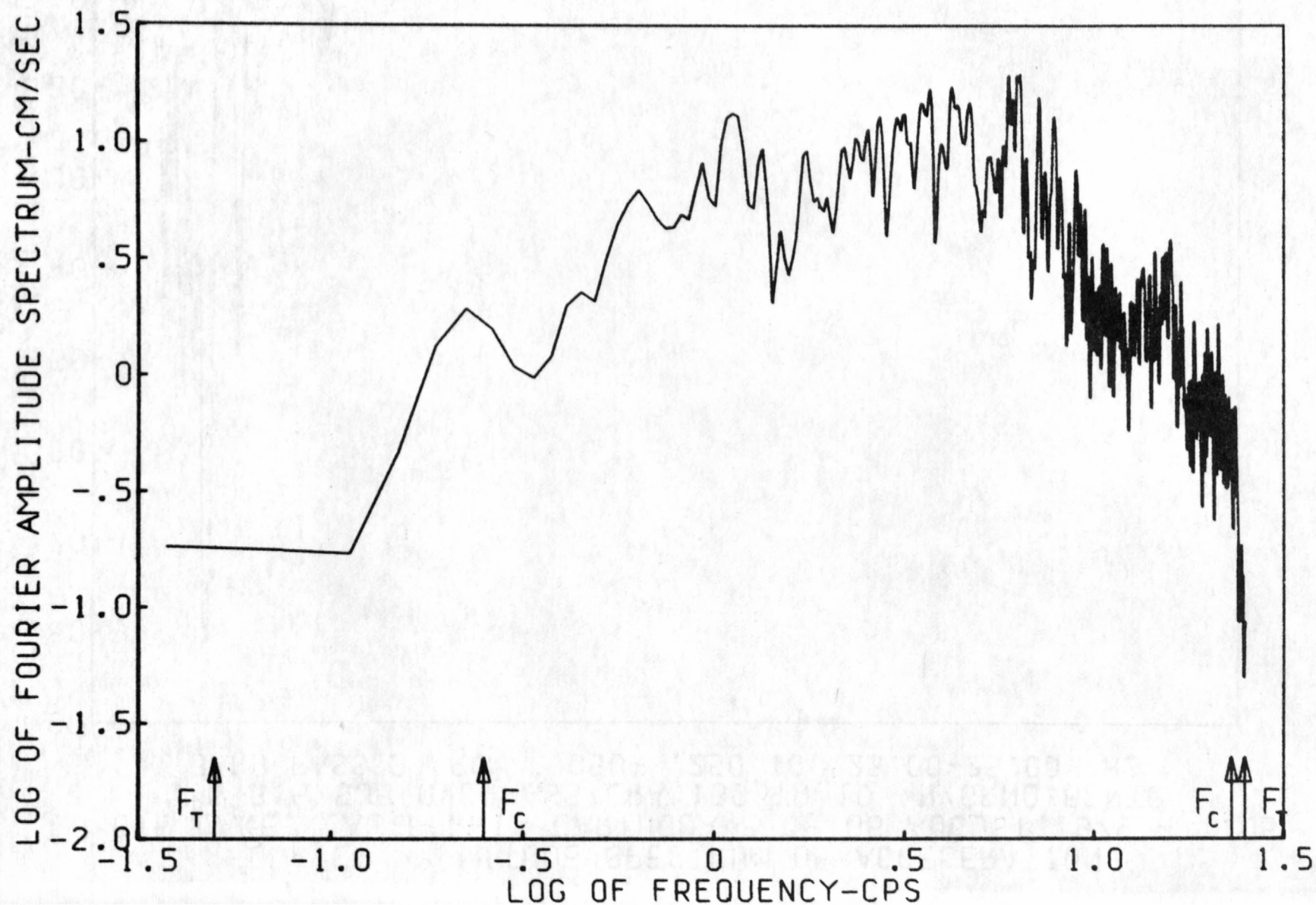
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 10 N/GRND/BENT3
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



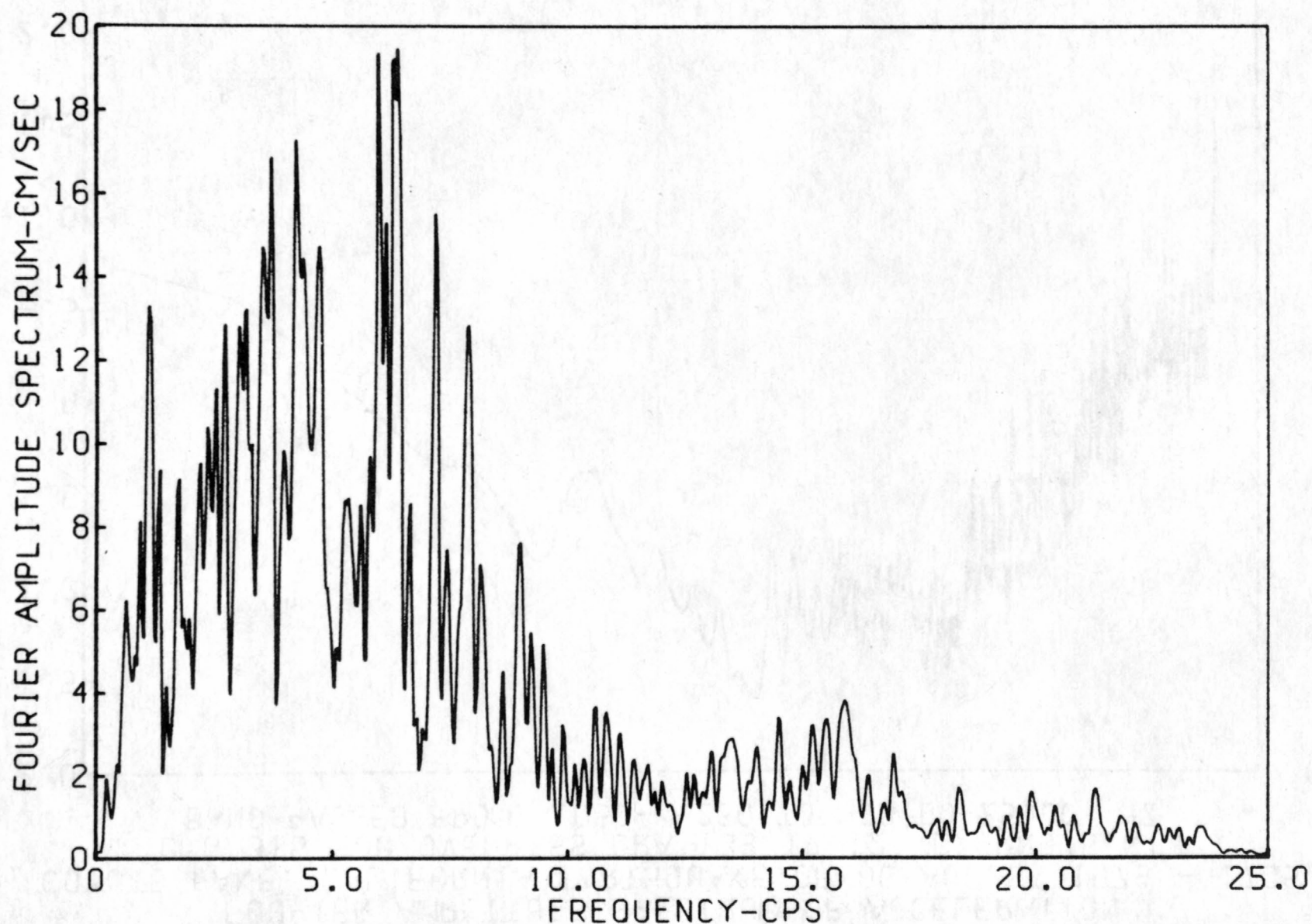
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 10 N/GRND/BENT3
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



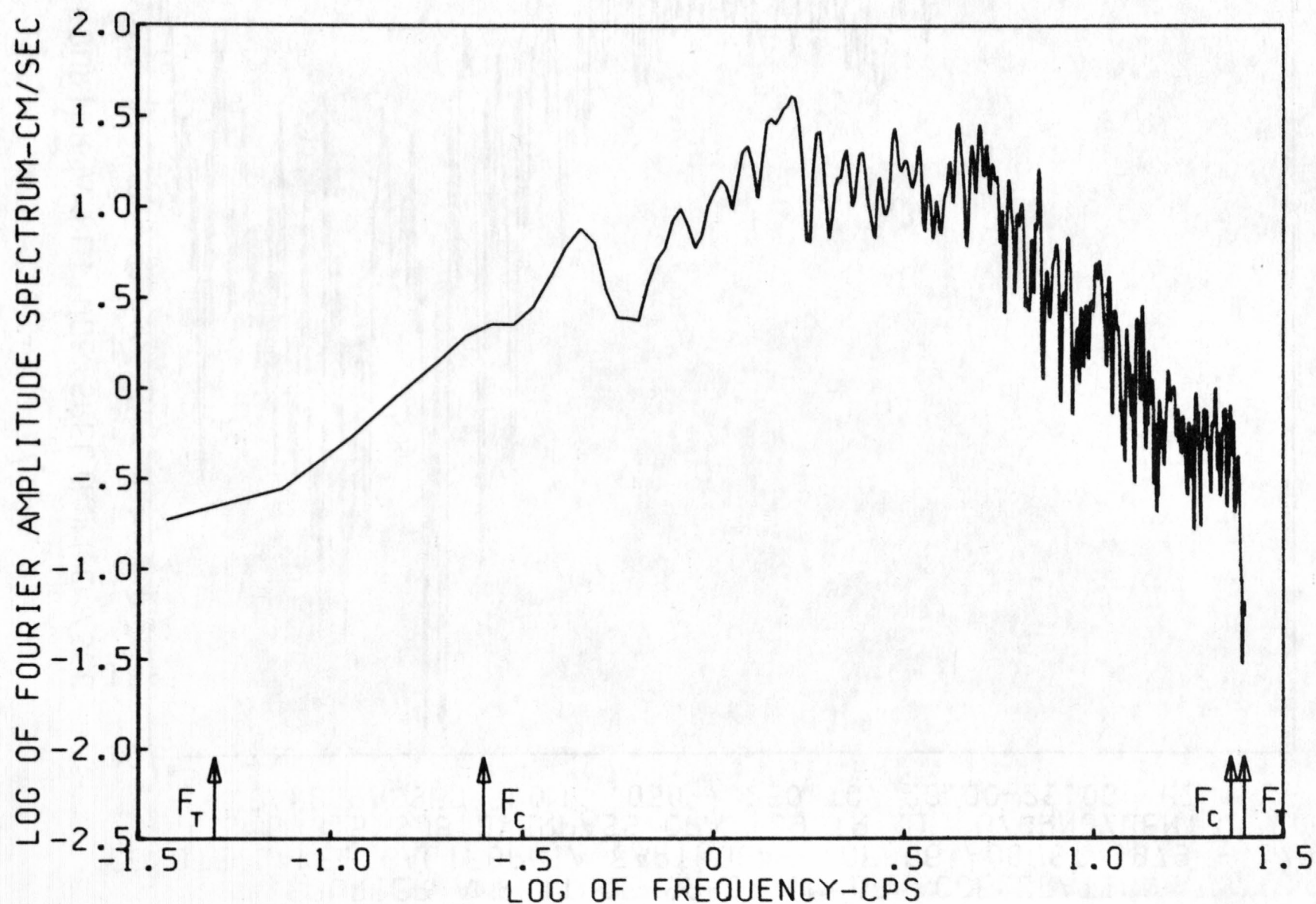
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 11 U/GRND/BENT3
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



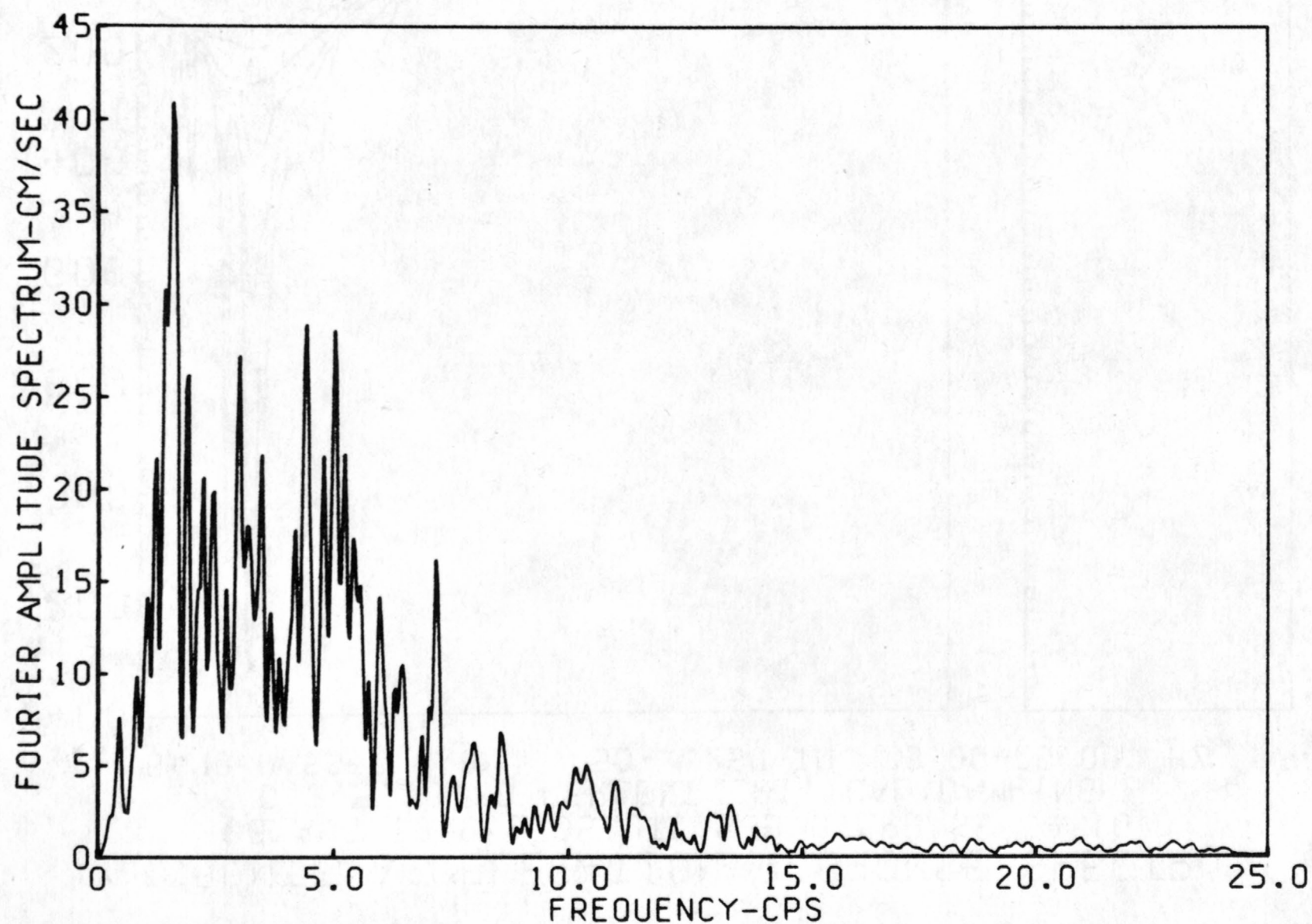
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 11 U/GRND/BENT3
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
 DMG 315 SJB OVERPASS CRA 139 TR 12 E/GRND/BENT3
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIFORNIA EARTHQUAKE OF 06 AUGUST 1979 - 1705
DMG 315 SJB OVERPASS CRA 139 TR 12 E/GRND/BENT3
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



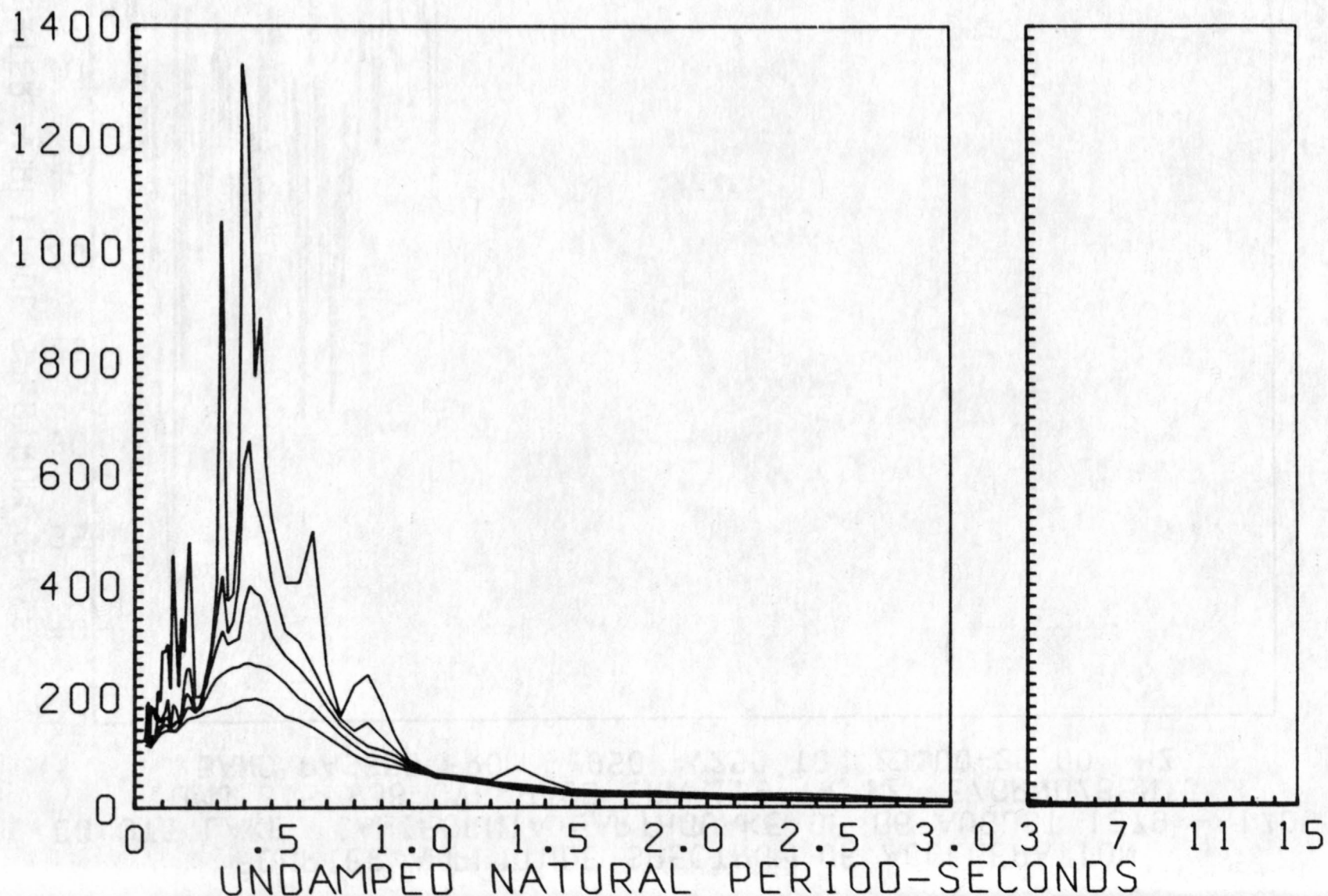
ABSOLUTE ACCELERATION RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB OVERPASS TR 10

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

ACCELERATION RESPONSE-CM/SEC/SEC



UNDAMPED NATURAL PERIOD-SECONDS

ABSOLUTE ACCELERATION RESPONSE SPECTRUM

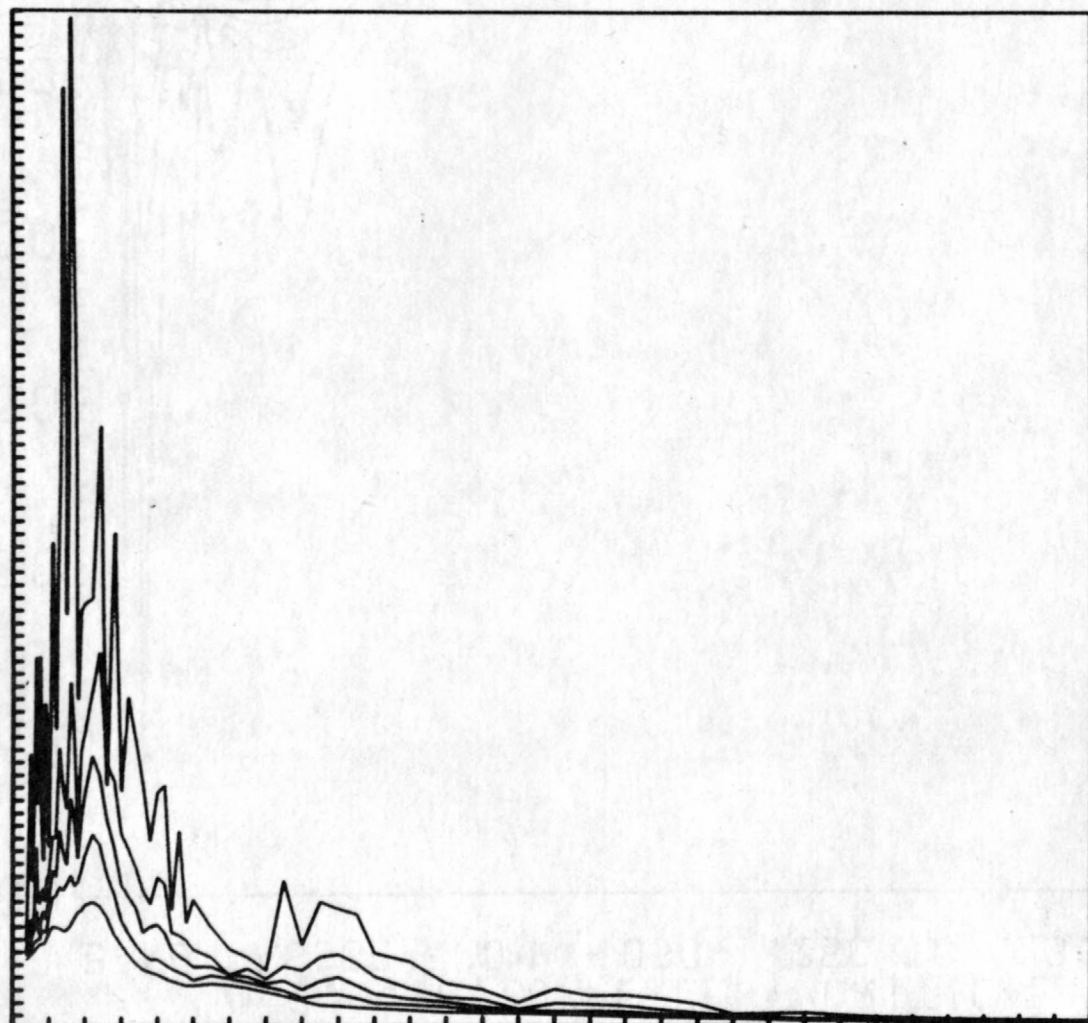
06 AUG 1979 1705 UTC SJB OVERPASS TR 11

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

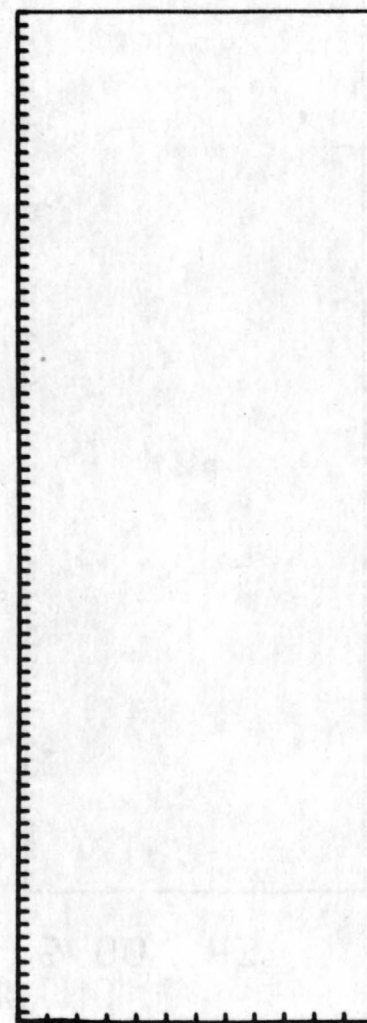
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

ACCELERATION RESPONSE-CM/SEC/SEC

800
700
600
500
400
300
200
100
0



UNDAMPED NATURAL PERIOD-SECONDS



3 7 11 15

ABSOLUTE ACCELERATION RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB OVERPASS TR 12

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

ACCELERATION RESPONSE-CM/SEC/SEC

1200

1000

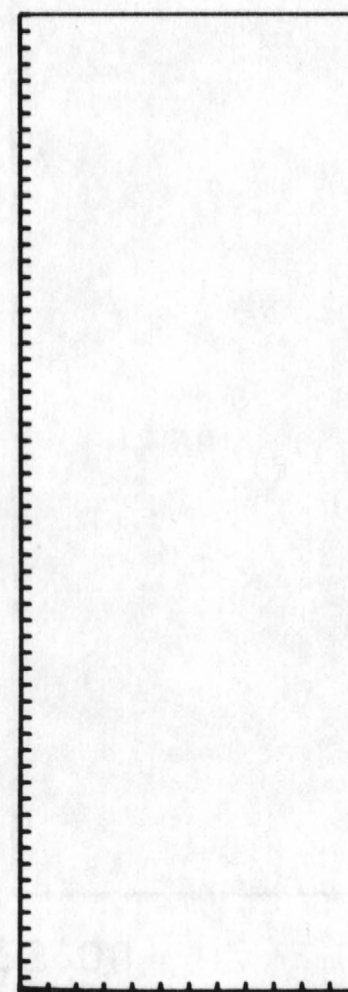
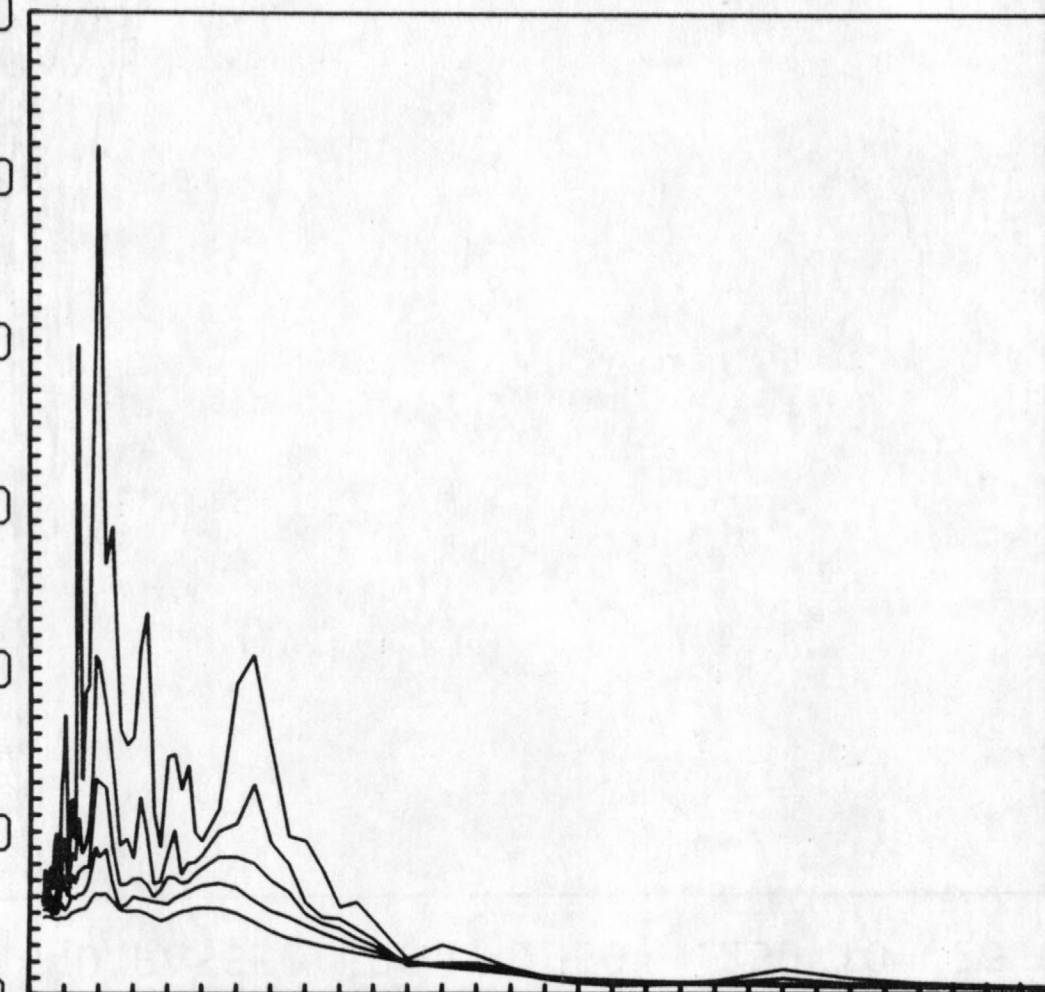
800

600

400

200

0



UNDAMPED NATURAL PERIOD-SECONDS

0

.5

1.0

1.5

2.0

2.5

3.0

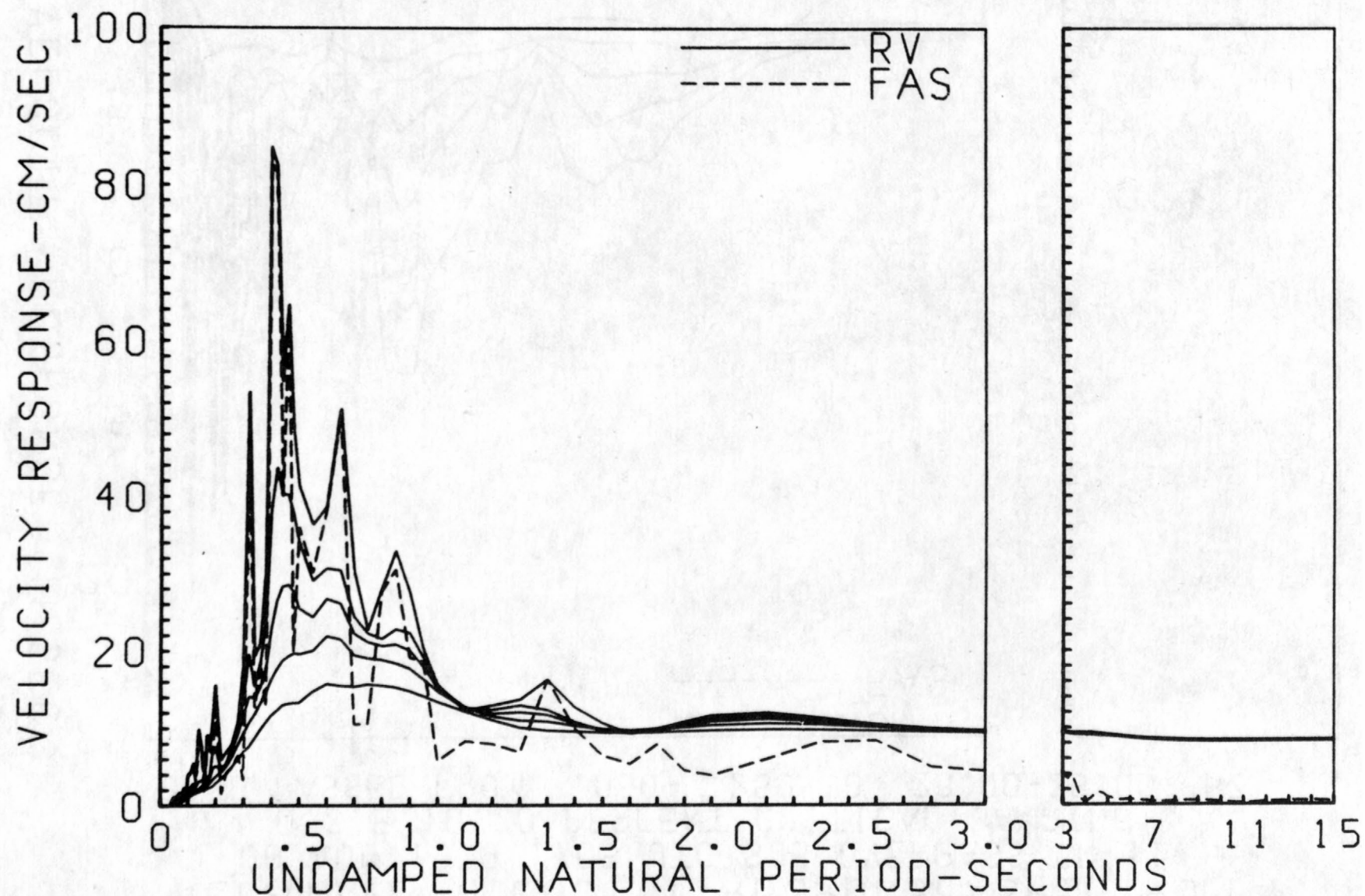
3

7

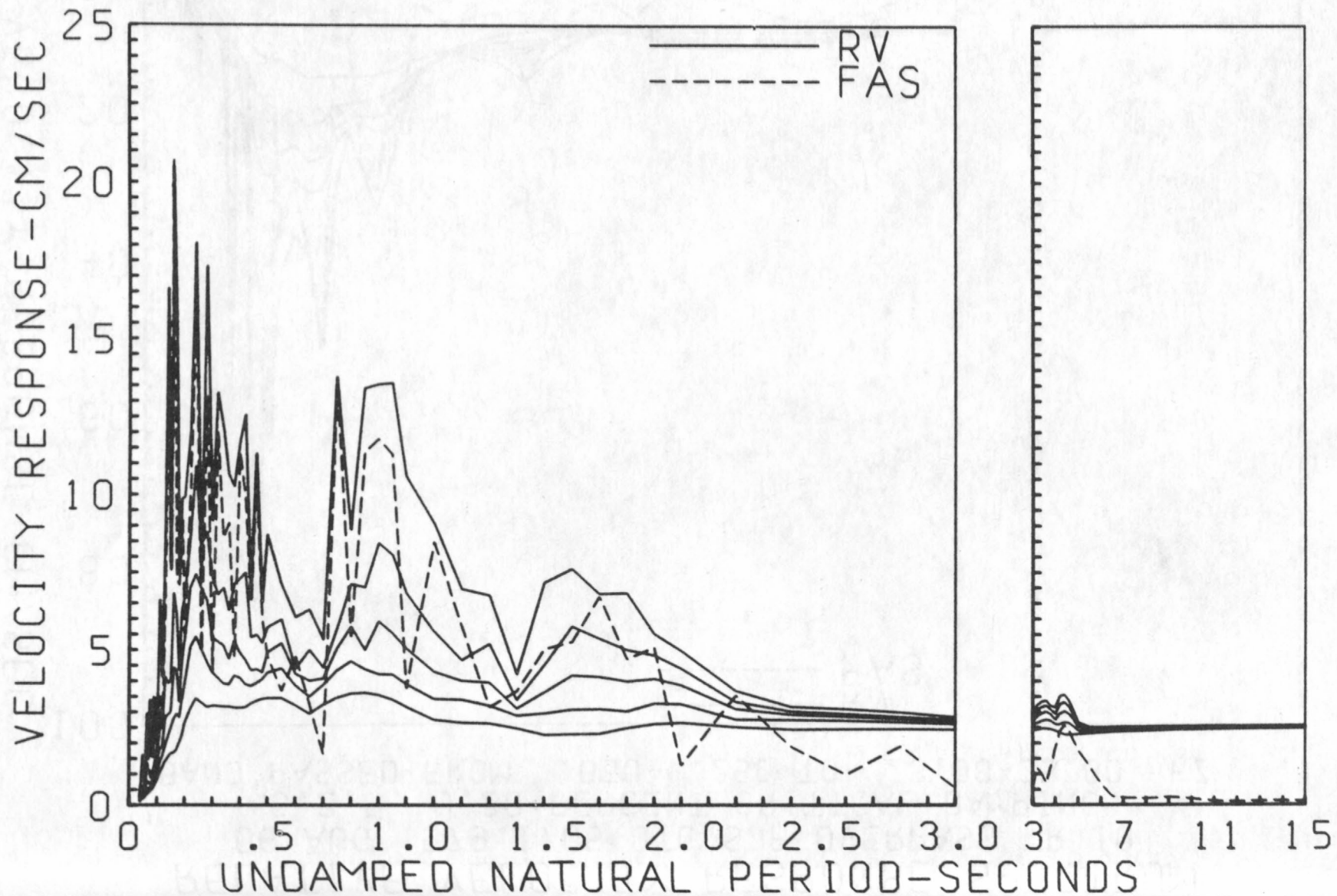
11

15

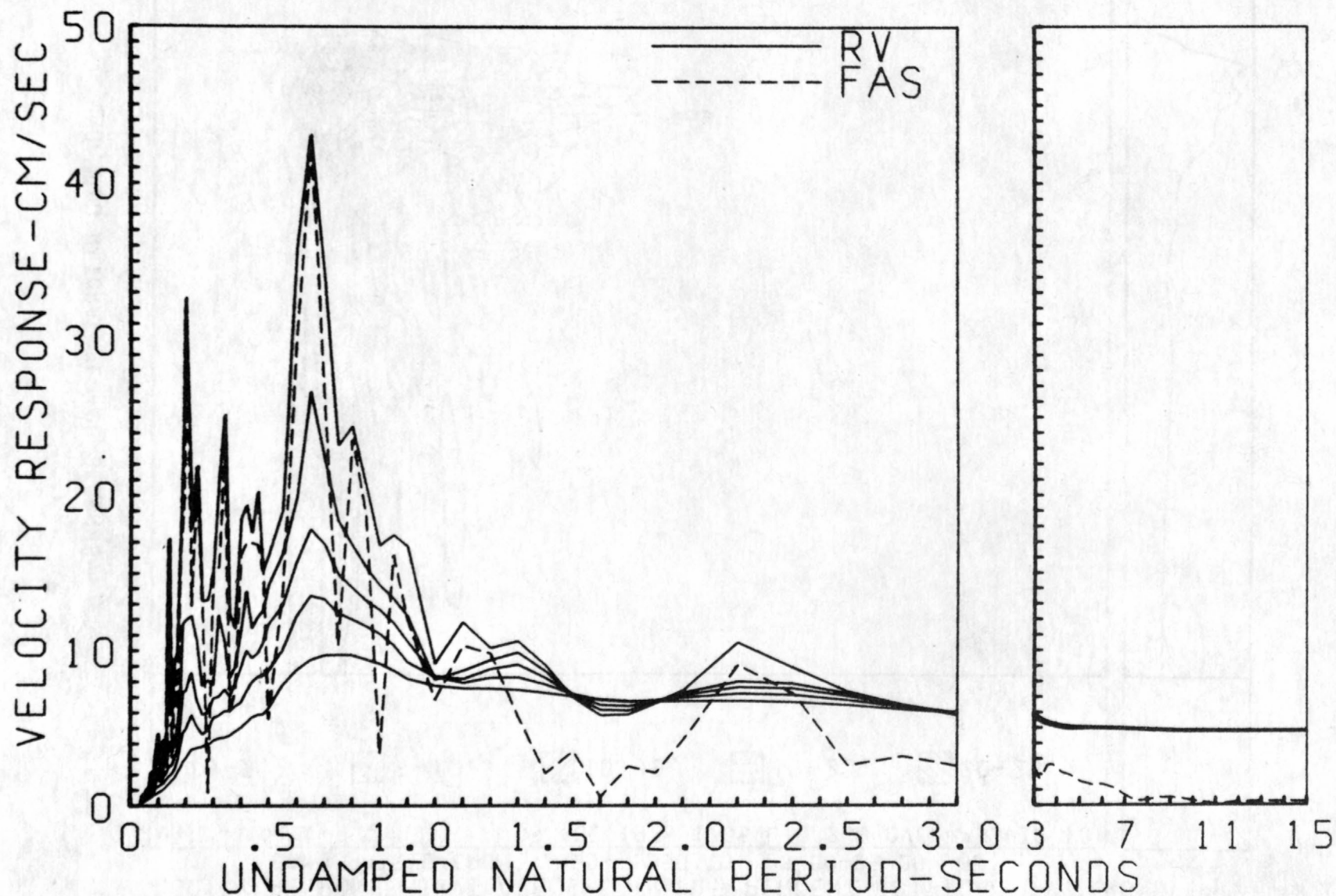
RELATIVE VELOCITY RESPONSE SPECTRUM
06 AUG 1979 1705 UTC SJB OVERPASS TR 10
0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



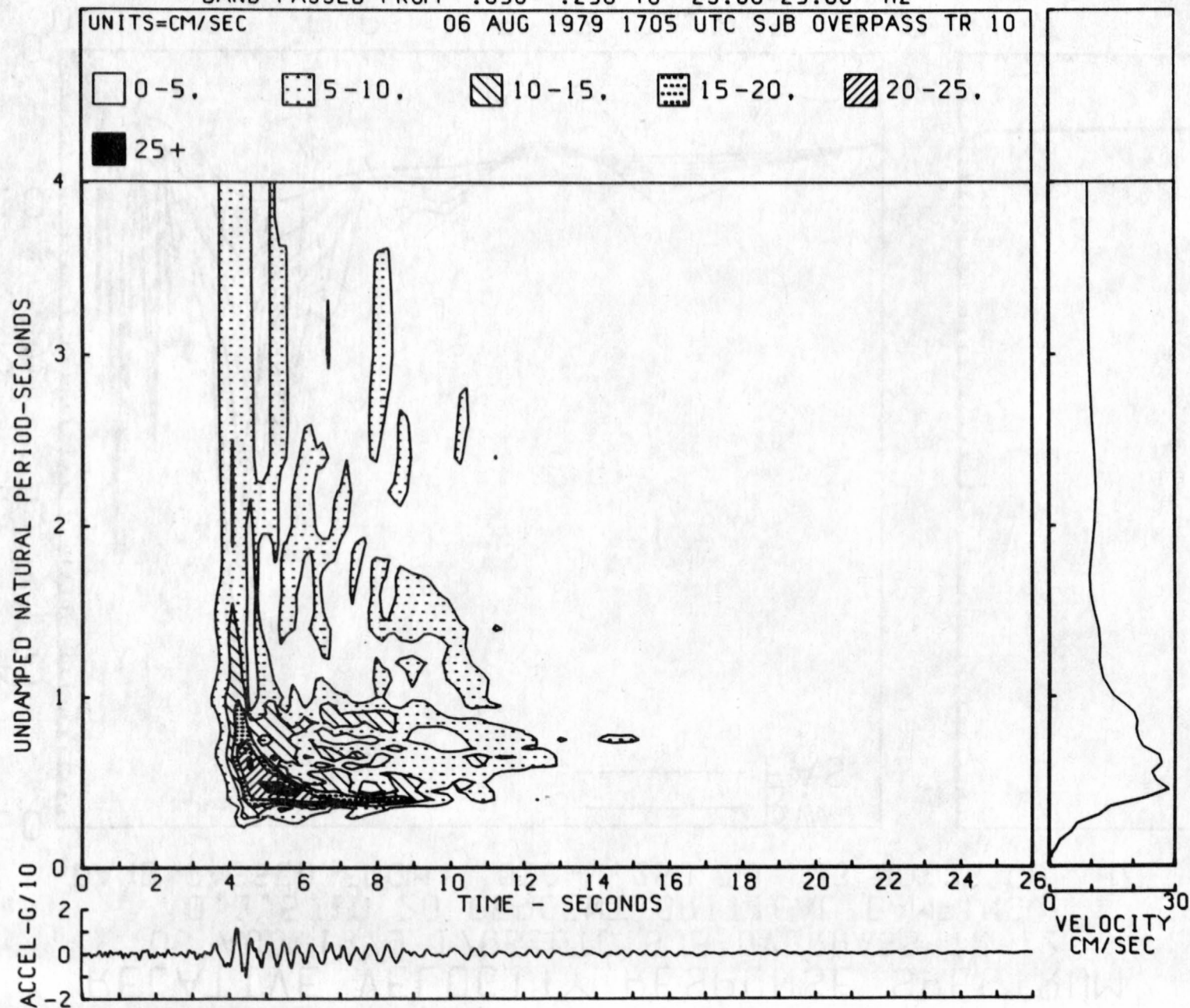
RELATIVE VELOCITY RESPONSE SPECTRUM
 06 AUG 1979 1705 UTC SJB OVERPASS TR 11
 0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



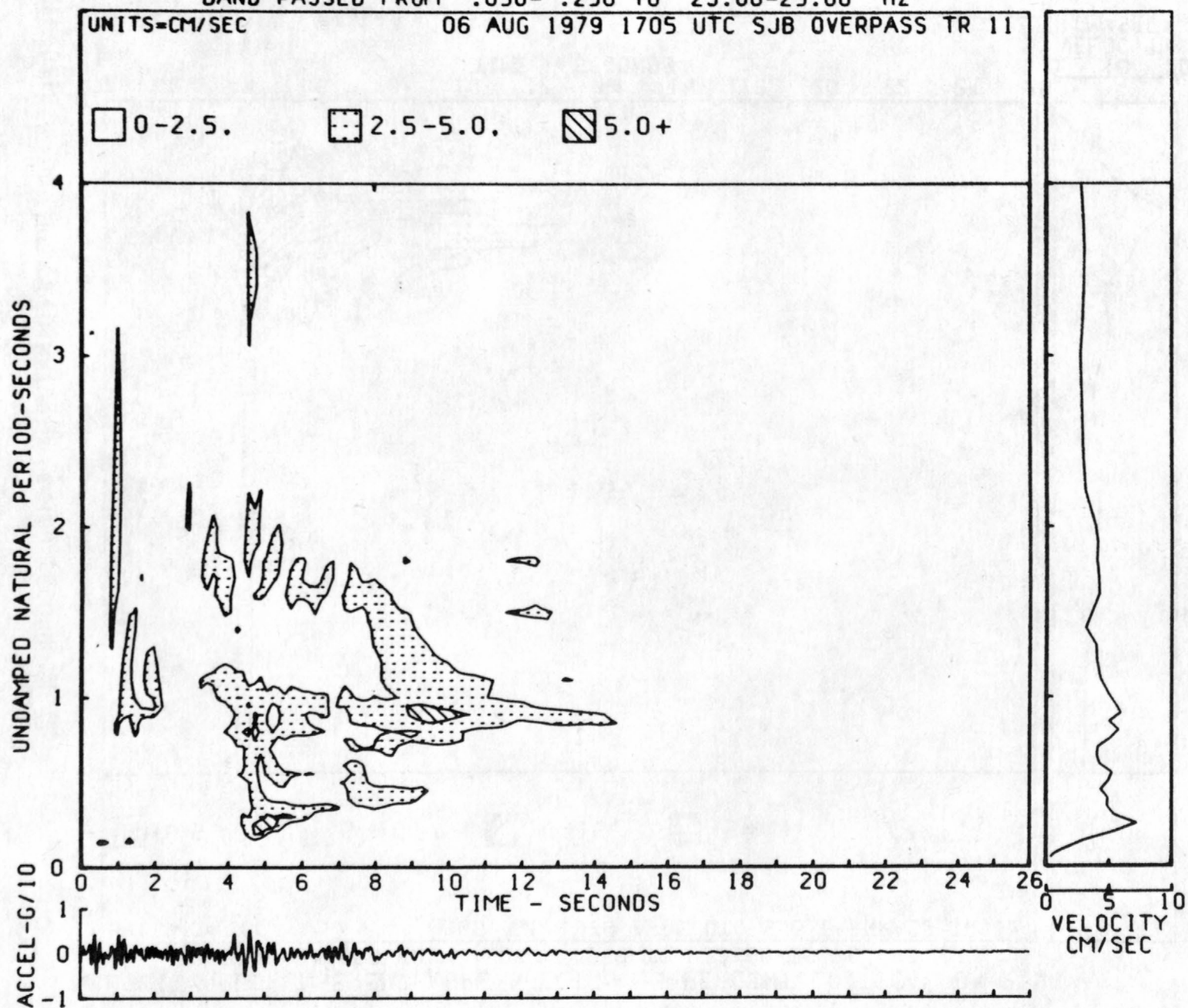
RELATIVE VELOCITY RESPONSE SPECTRUM
 06 AUG 1979 1705 UTC SJB OVERPASS TR 12
 0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



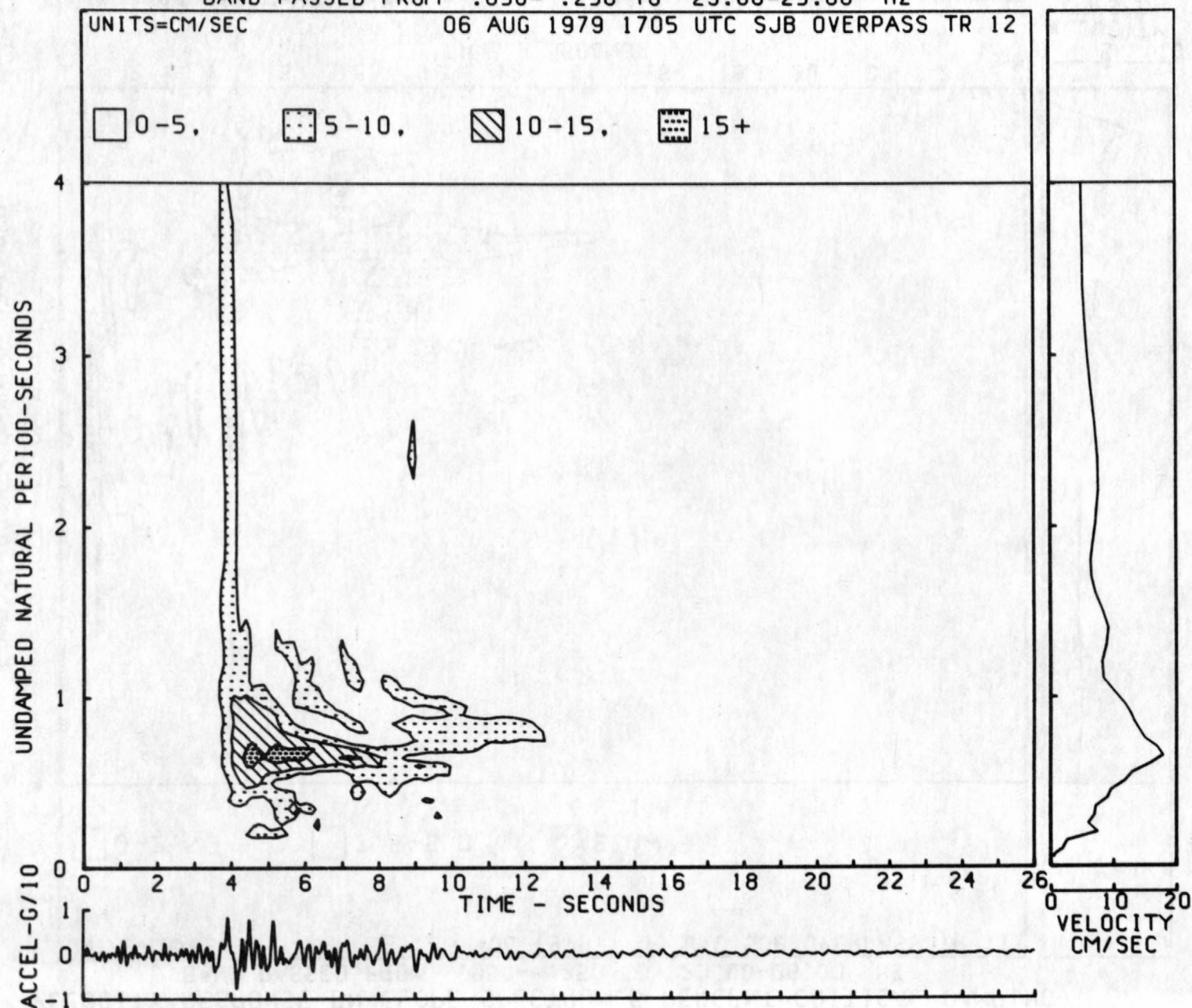
VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



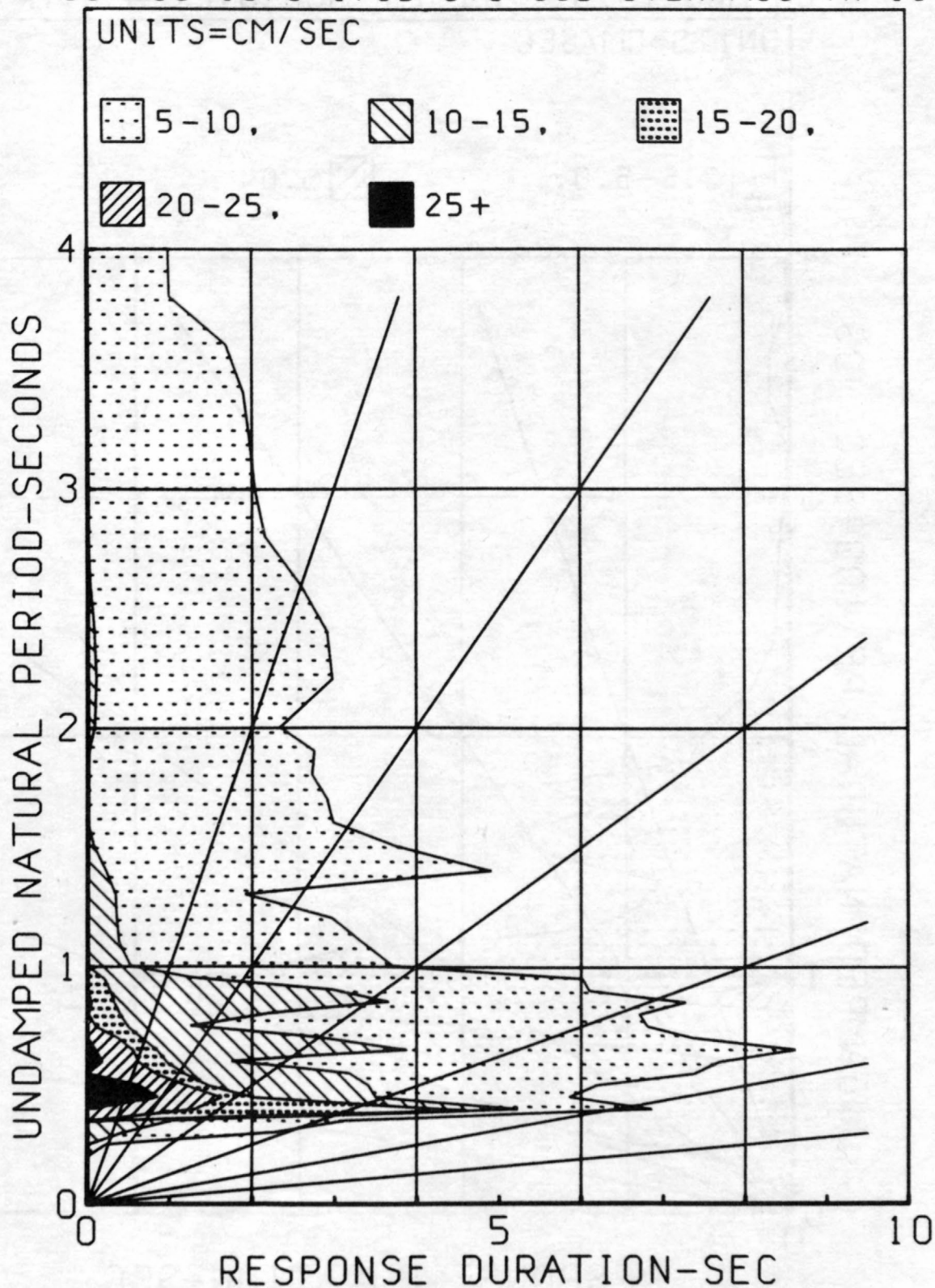
VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



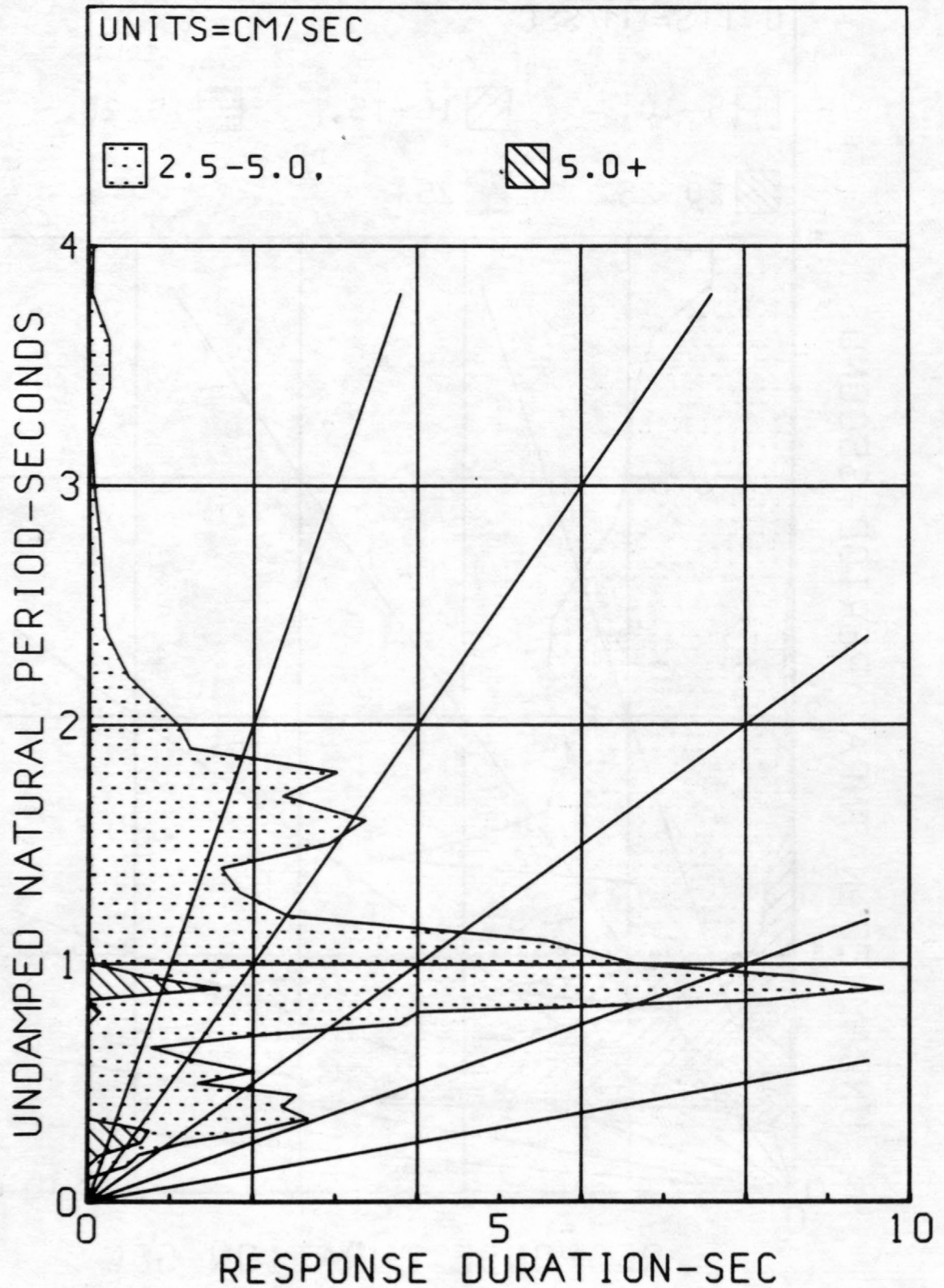
VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



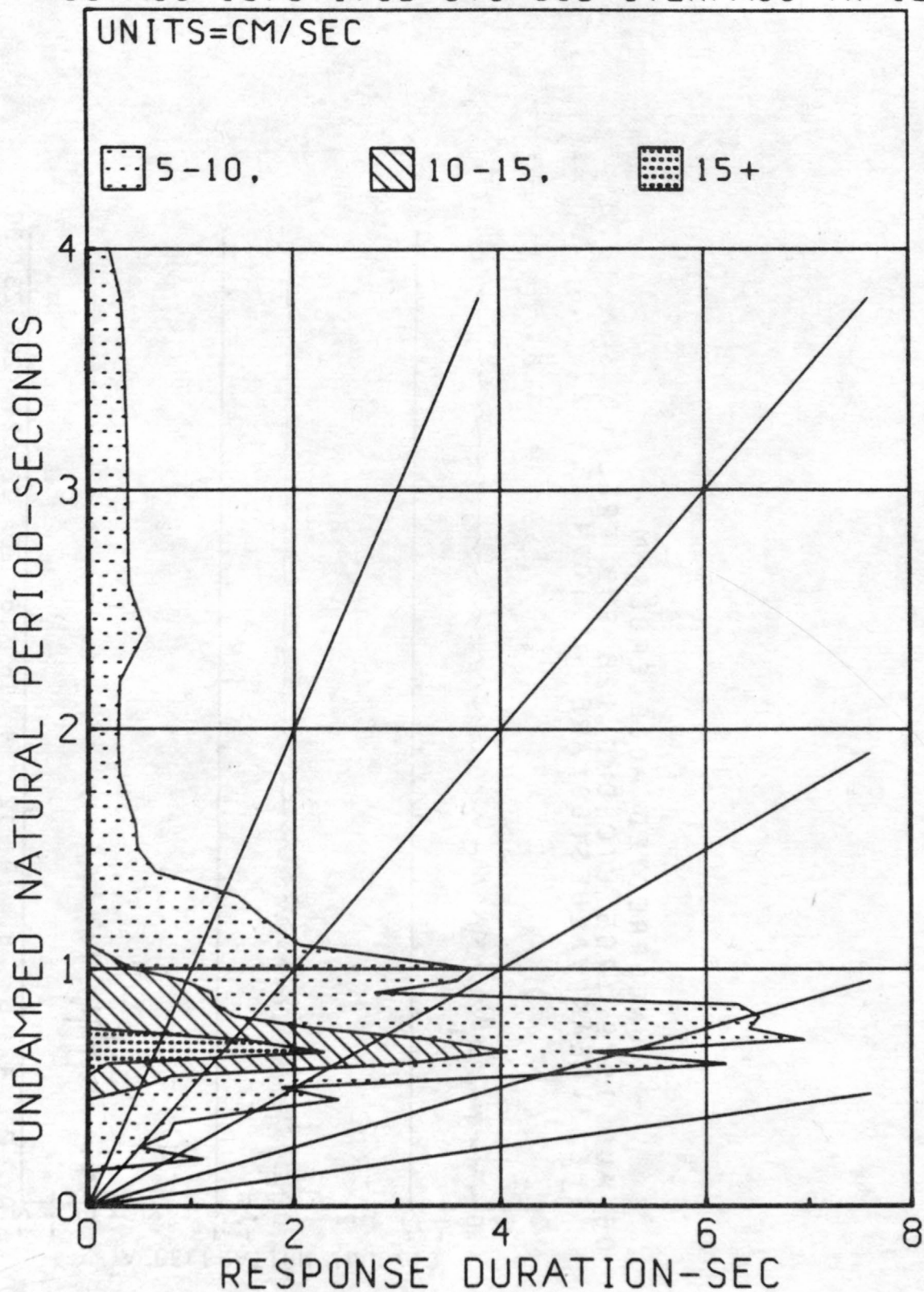
DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 10



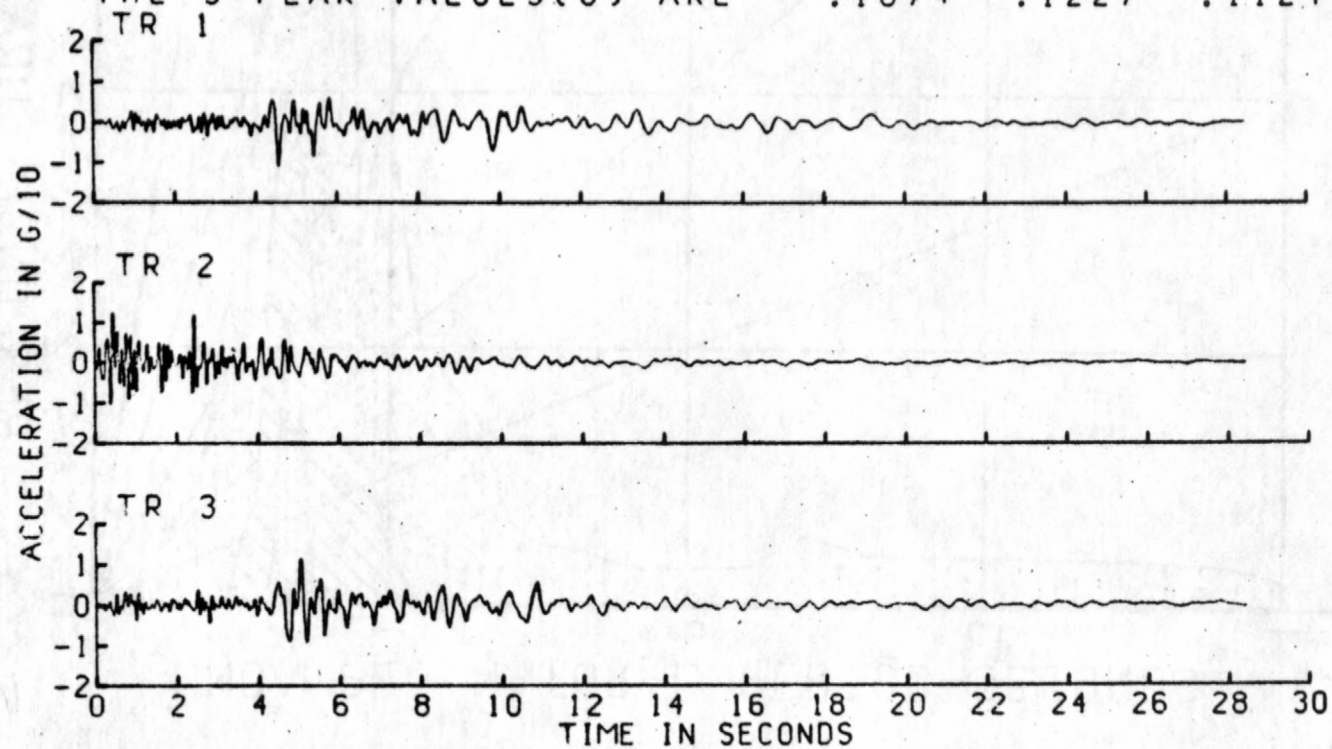
DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 11



DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB OVERPASS TR 12



UNCORRECTED ACCELEROGRAM
06 AUG 1979 1705 UTC DMG 126 SJB FREEFLD SMA 1678
THE 3 PEAK VALUES(G) ARE .1074 .1227 .1124

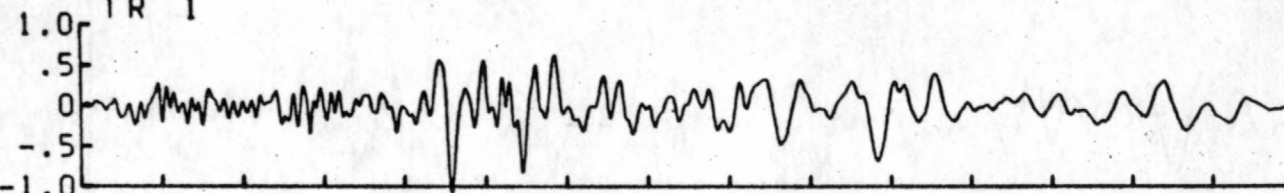


UNCORRECTED ACCELEROGRAM

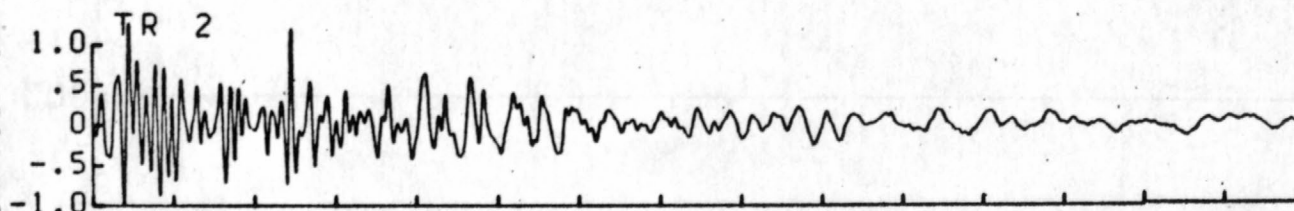
06 AUG 1979 1705 UTC DMG 126 SJB FREEFLD SMA 1678

THE 3 PEAK VALUES(G) ARE .1074 .1227 .1124

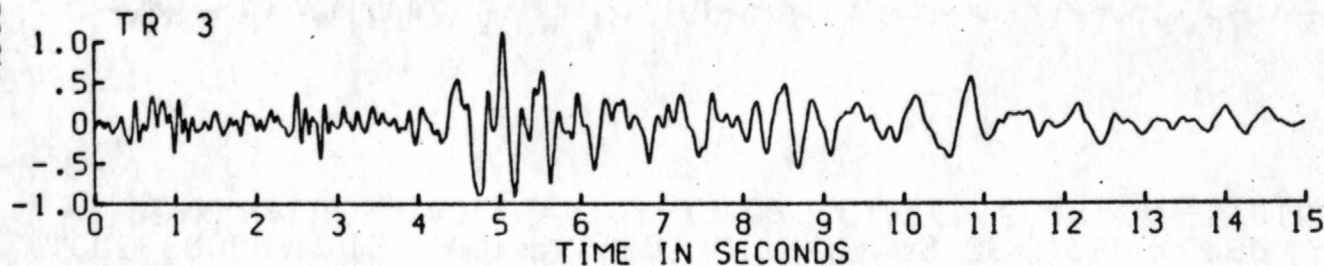
TR 1



TR 2

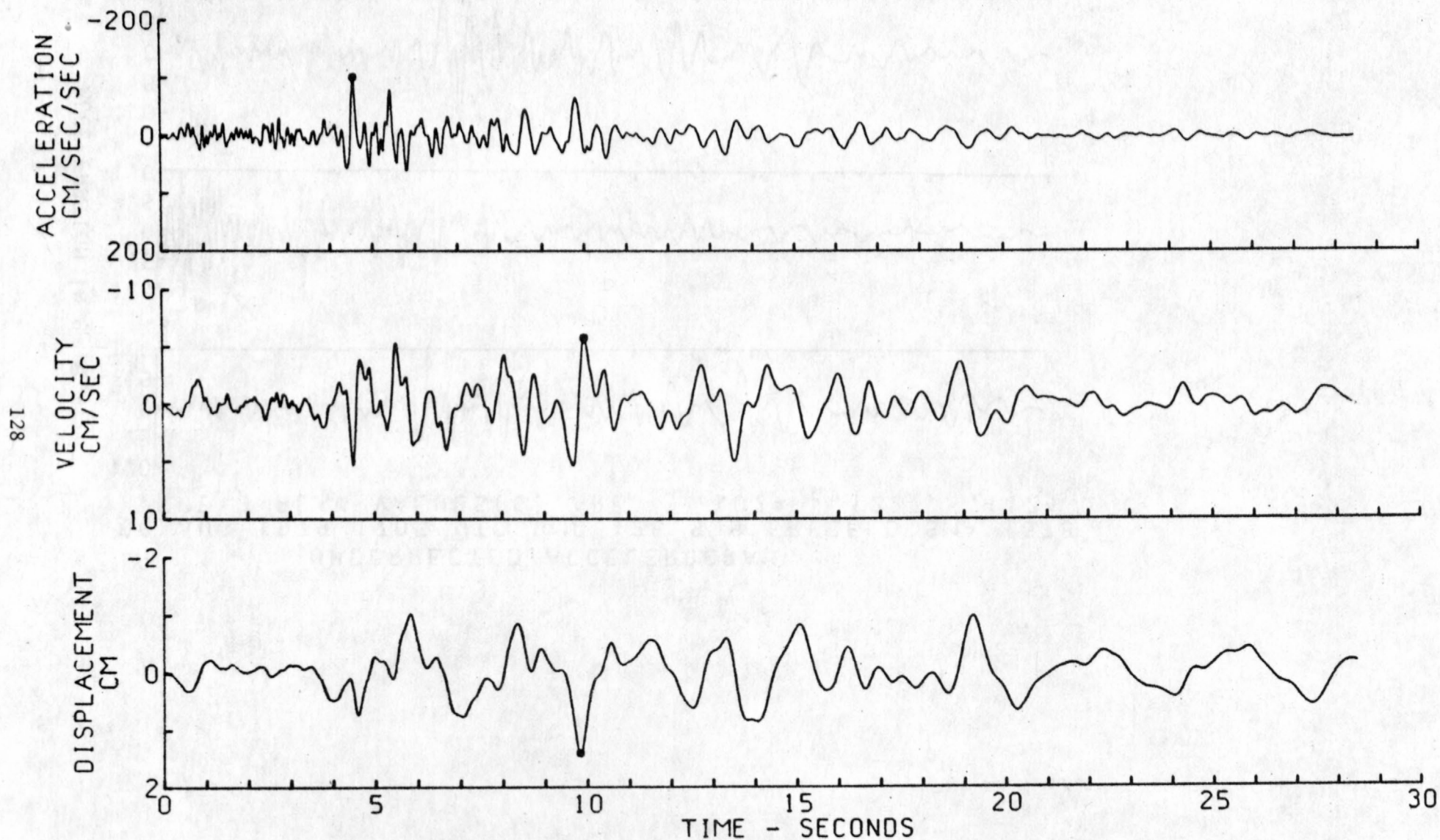


TR 3



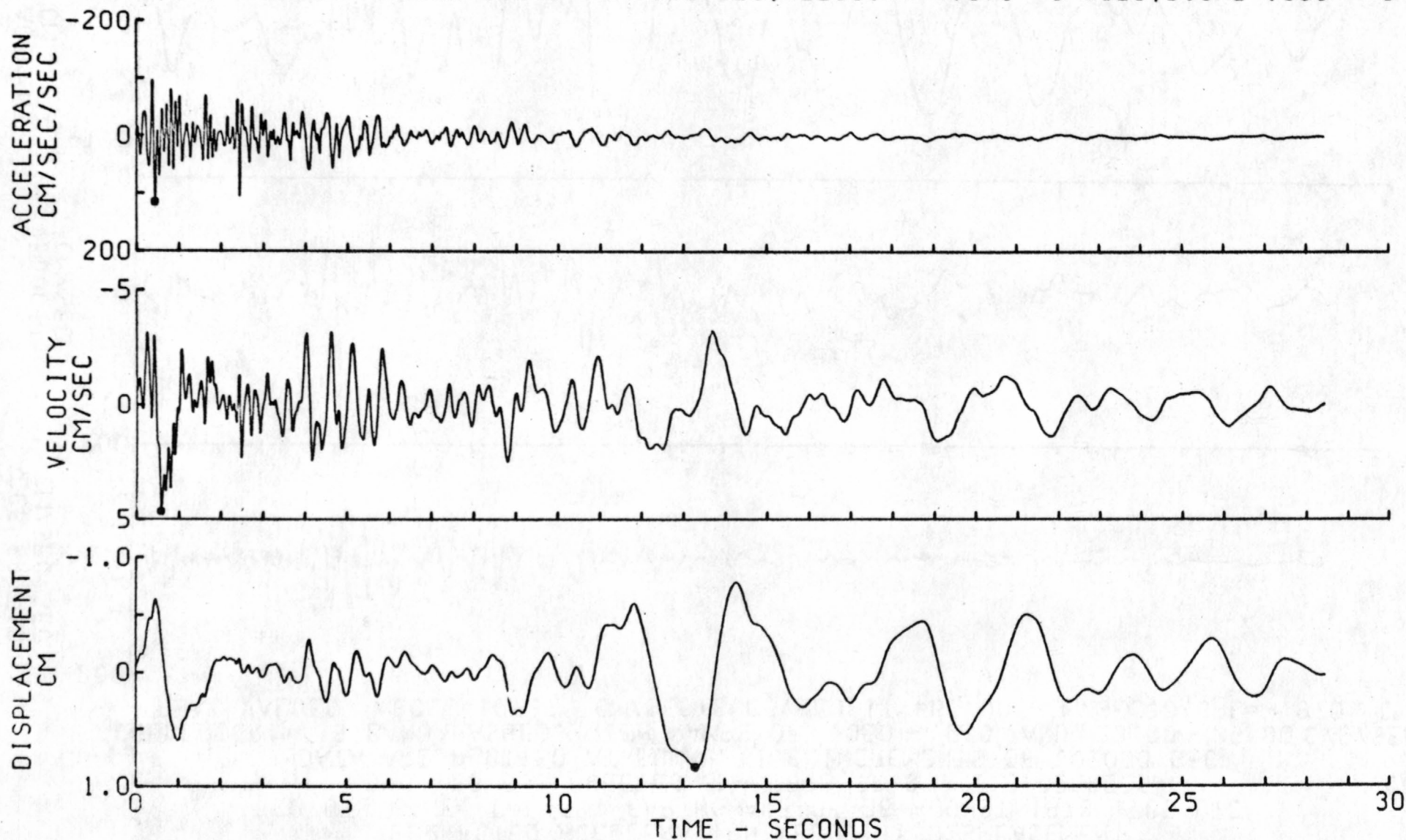
CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIF.. EARTHQUAKE OF 06 AUGUST 1979 1705 UTC
DMG 126 SJB FREEFLD SMA 1678 TR 1 303 DEGREES

DATA ARE PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC
ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC
• PEAK VALUES ACCEL=-101.7 CM/SEC/SEC, VELOCITY=-5.810 CM/SEC, DISPL=1.400 CM



CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIF., EARTHQUAKE OF 06 AUGUST 1979 1705 UTC
DMG 126 SJB FREEFLD SMA 1678 TR 2 UP

DATA ARE PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC
ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC
• PEAK VALUES ACCEL=115.5 CM/SEC/SEC, VELOCITY=4.670 CM/SEC, DISPL=.830 CM



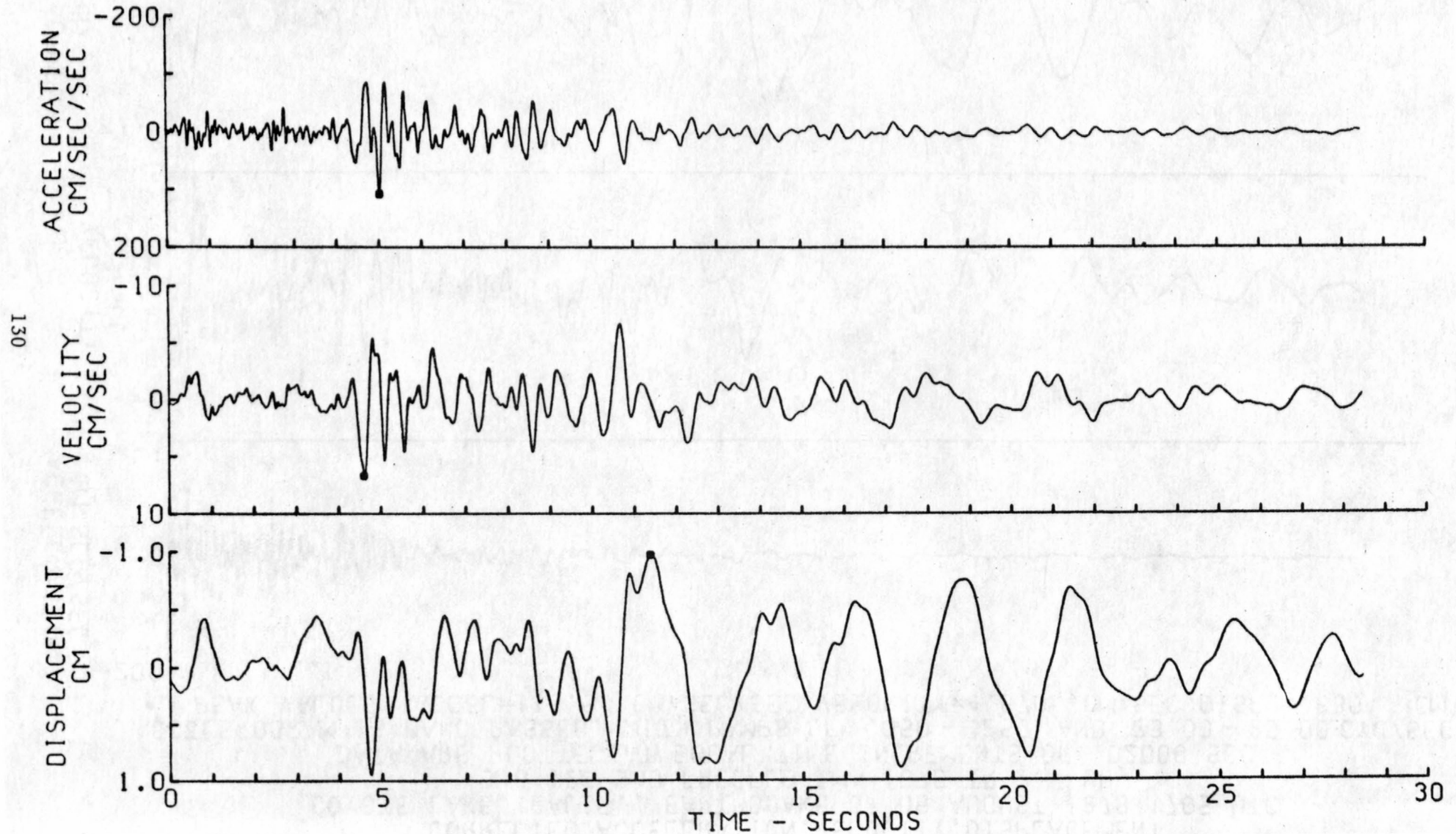
CORRECTED ACCELERATION, VELOCITY, DISPLACEMENT
COYOTE LAKE, CALIF., EARTHQUAKE OF 06 AUGUST 1979 1705 UTC

DMG 126 SJB FREEFLD SMA 1678 TR 3 213 DEGREES

DATA ARE PLOTTED AT EQUAL TIME INCREMENTS OF .02000 SEC

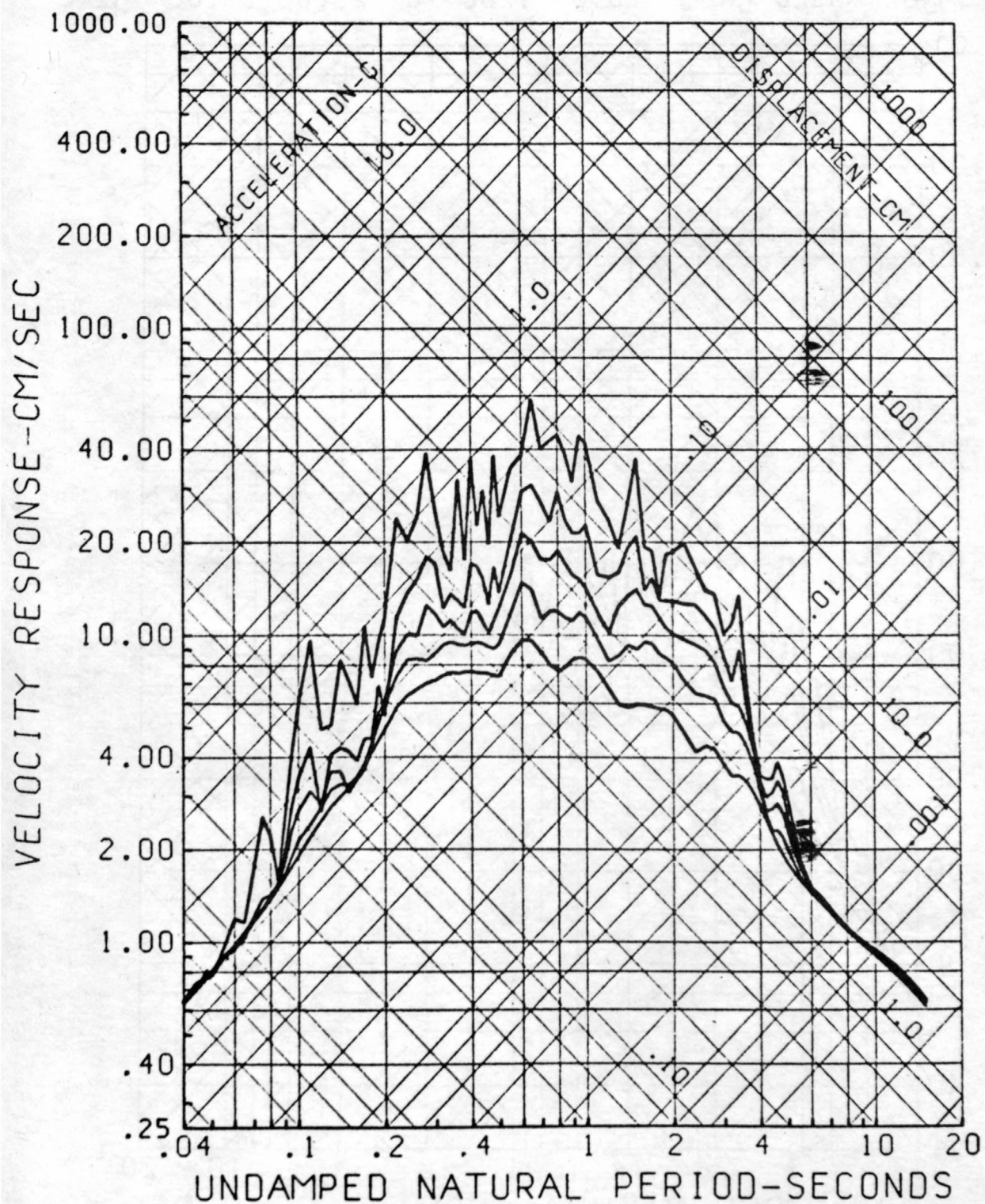
ACCELEROGRAM IS BAND PASSED, WITH RAMPS OF .050 - .250 AND 23.00 - 25.00 CYC/SEC

• PEAK VALUES ACCEL=107.7 CM/SEC/SEC, VELOCITY=6.700 CM/SEC, DISPL=-.970 CM

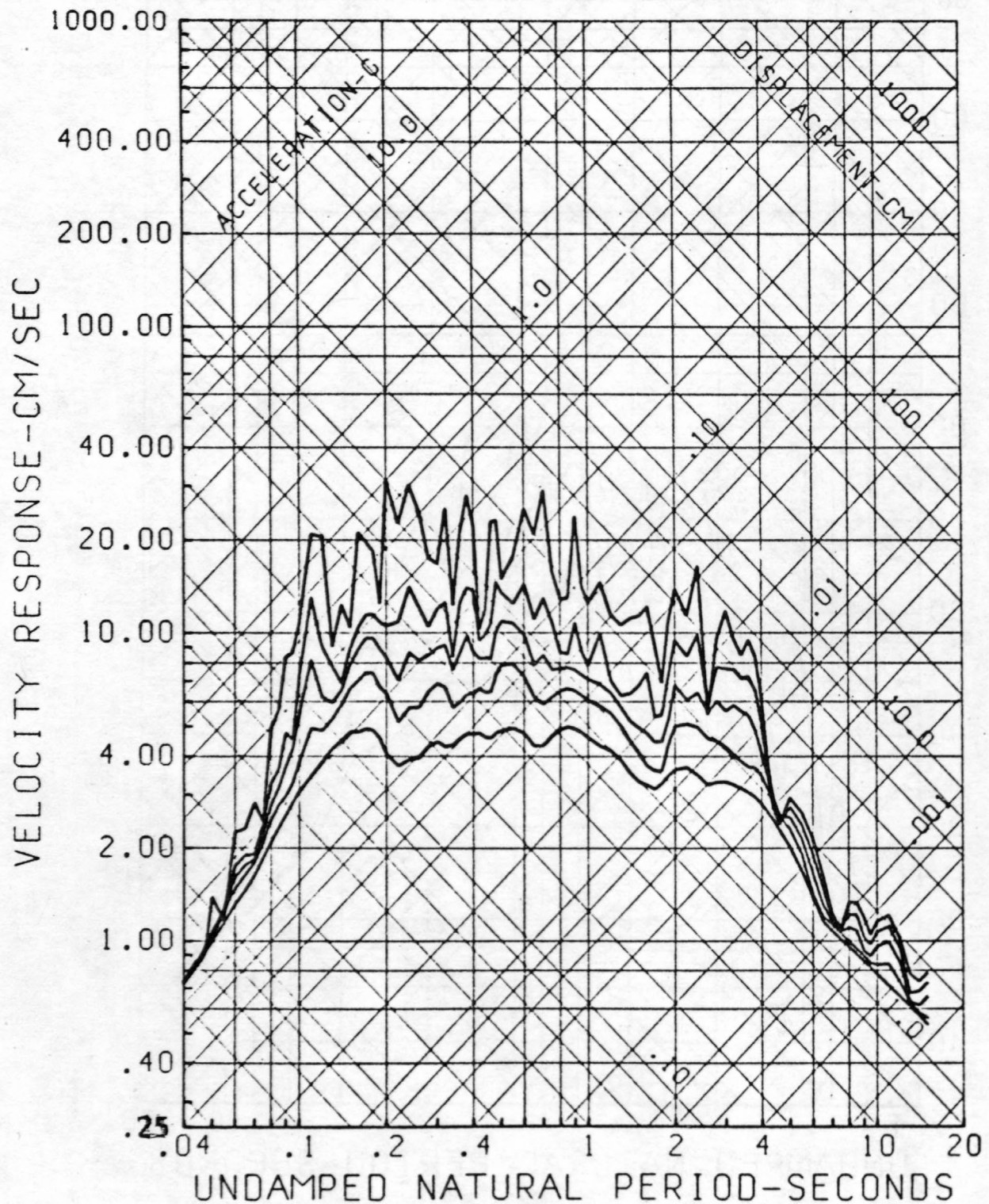


RESPONSE SPECTRA

06 AUG 1979 1705 UTC SJB FREEFLD TR 1
 0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



RESPONSE SPECTRA
 06 AUG 1979 1705 UTC SJB FREEFLD TR 2
 0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

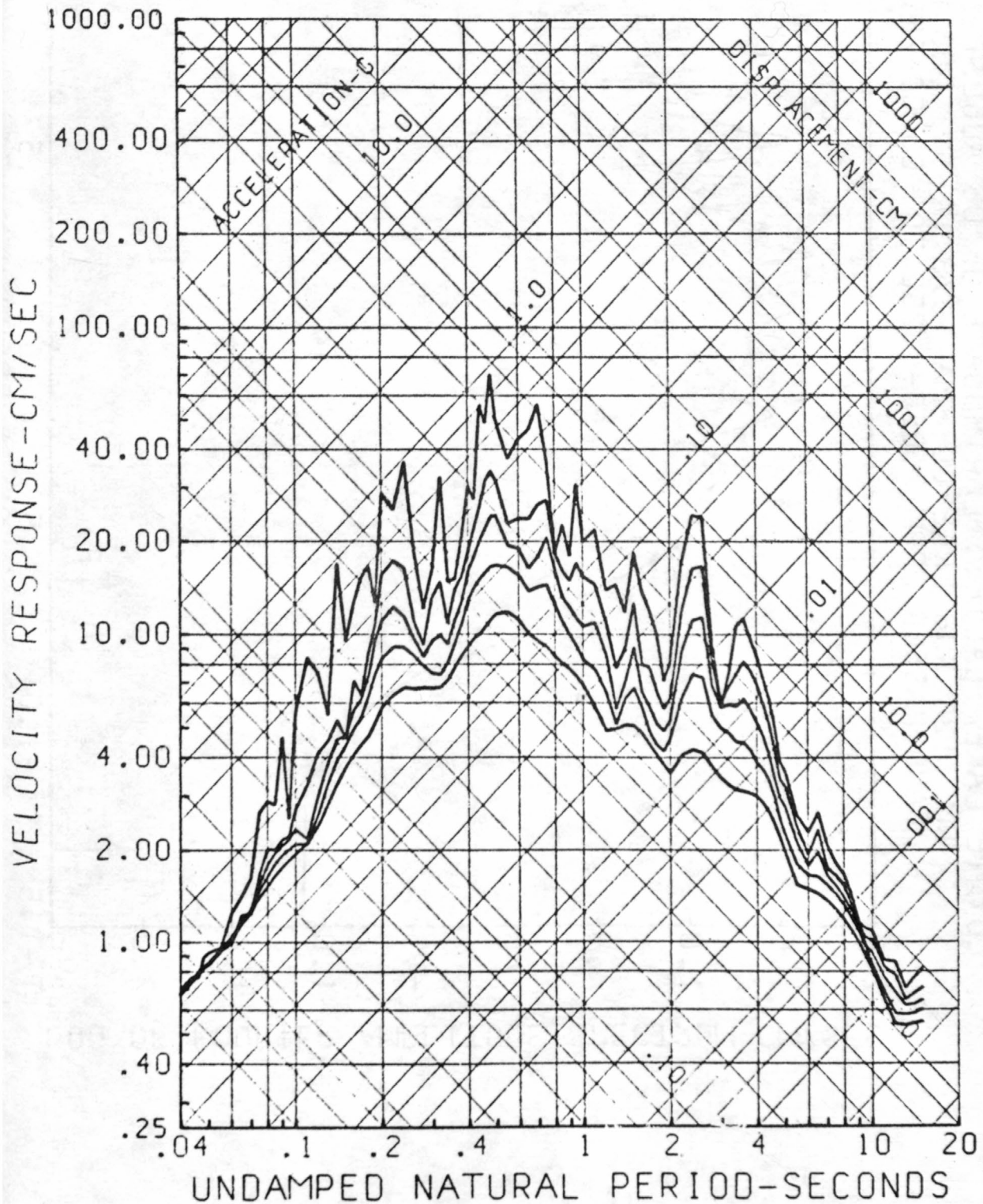


RESPONSE SPECTRA

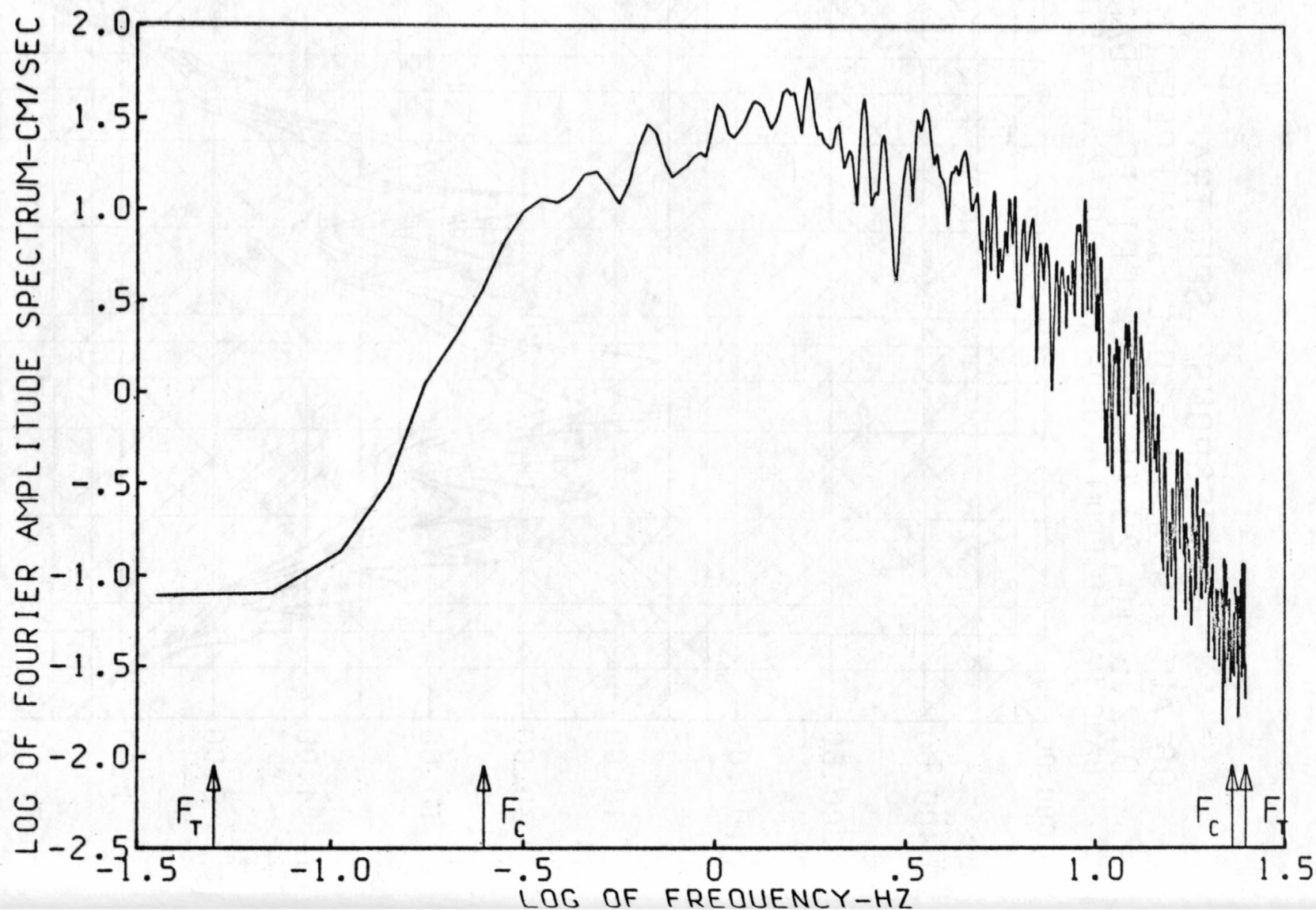
06 AUG 1979 1705 UTC SJB FREEFLD TR 3

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

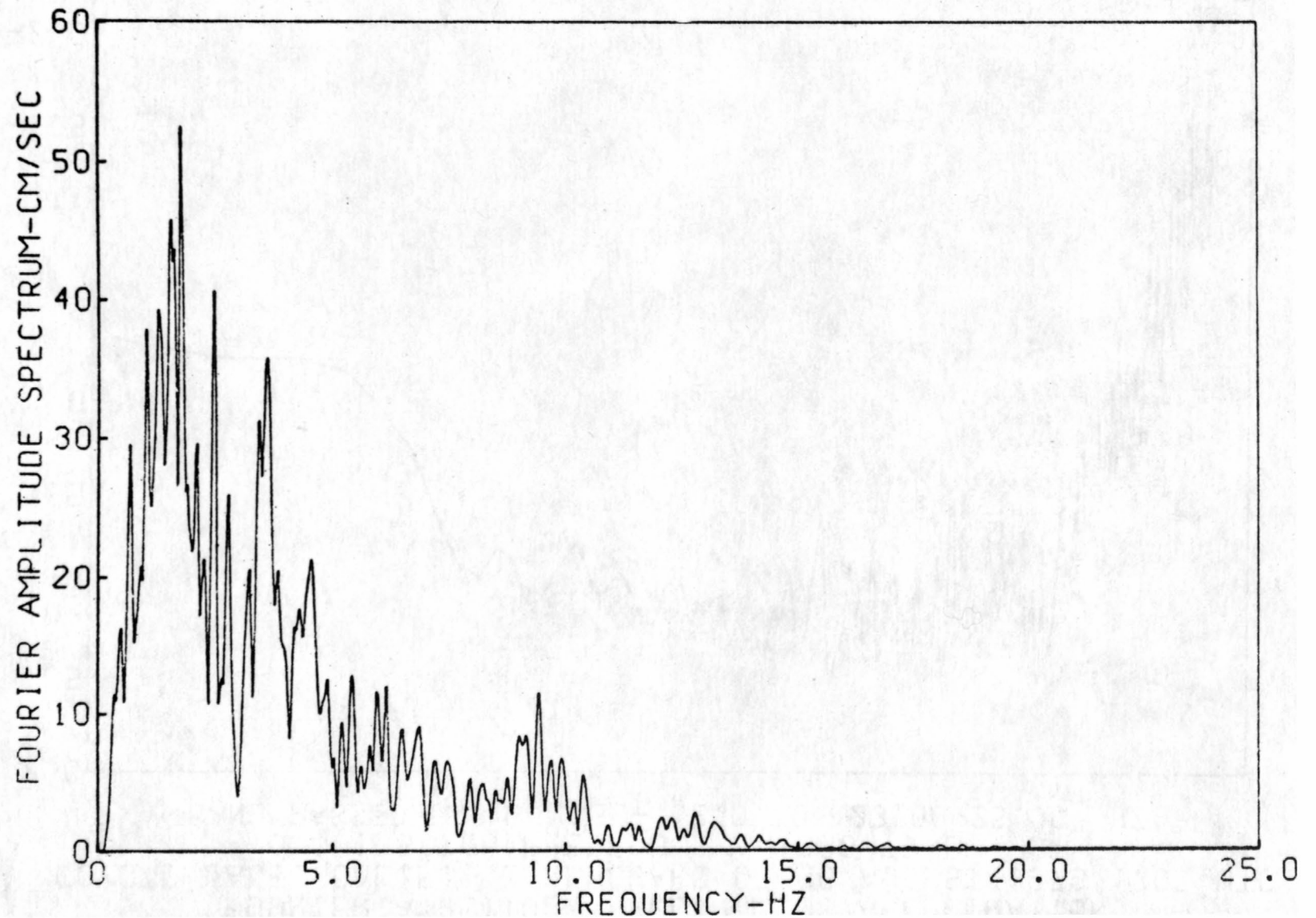
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



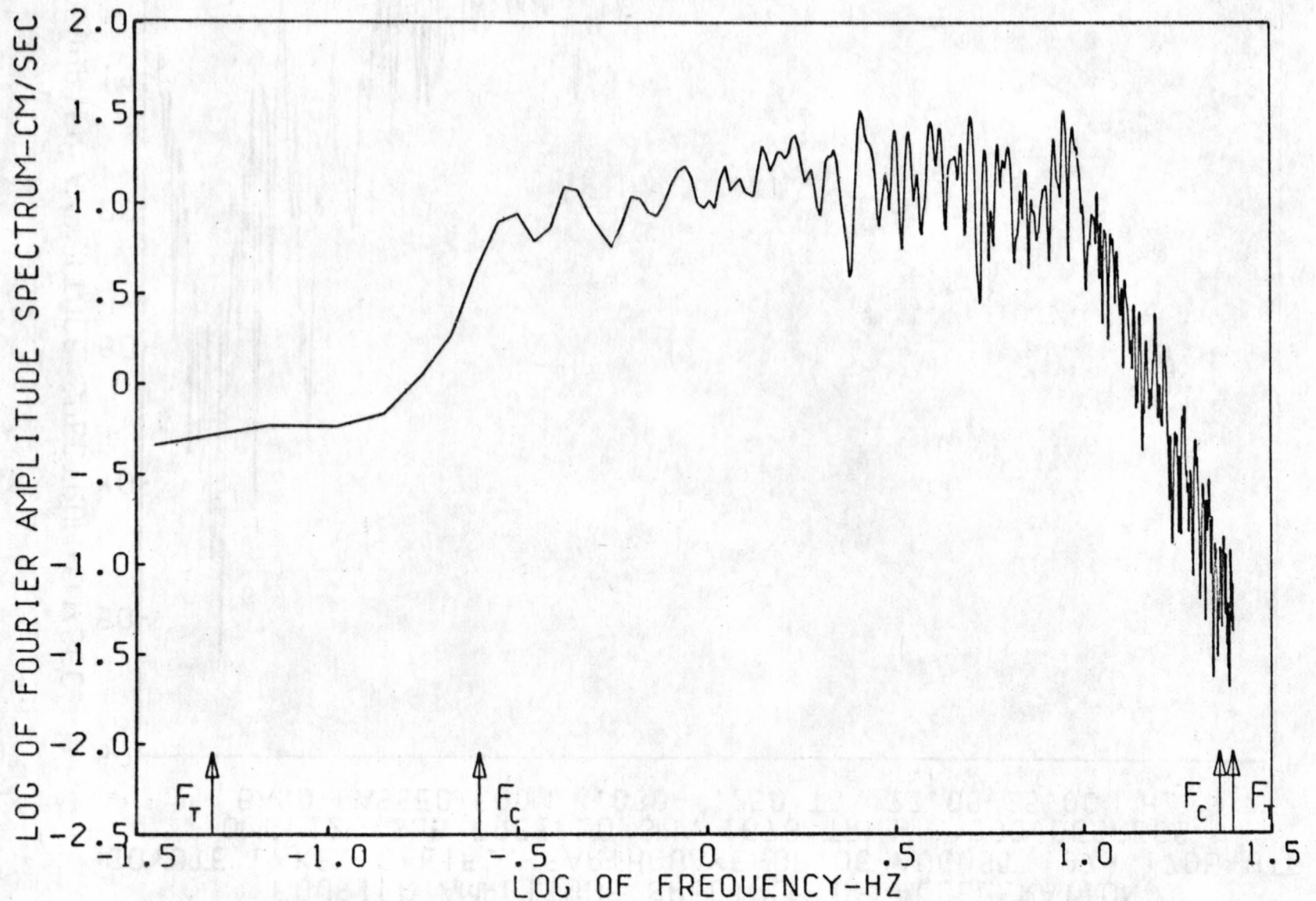
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIF.. EARTHQUAKE OF 06 AUGUST 1979 1705 UTC
 DMG 126 SJB FREEFLD SMA 1678 TR 1 303 DEGREES
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



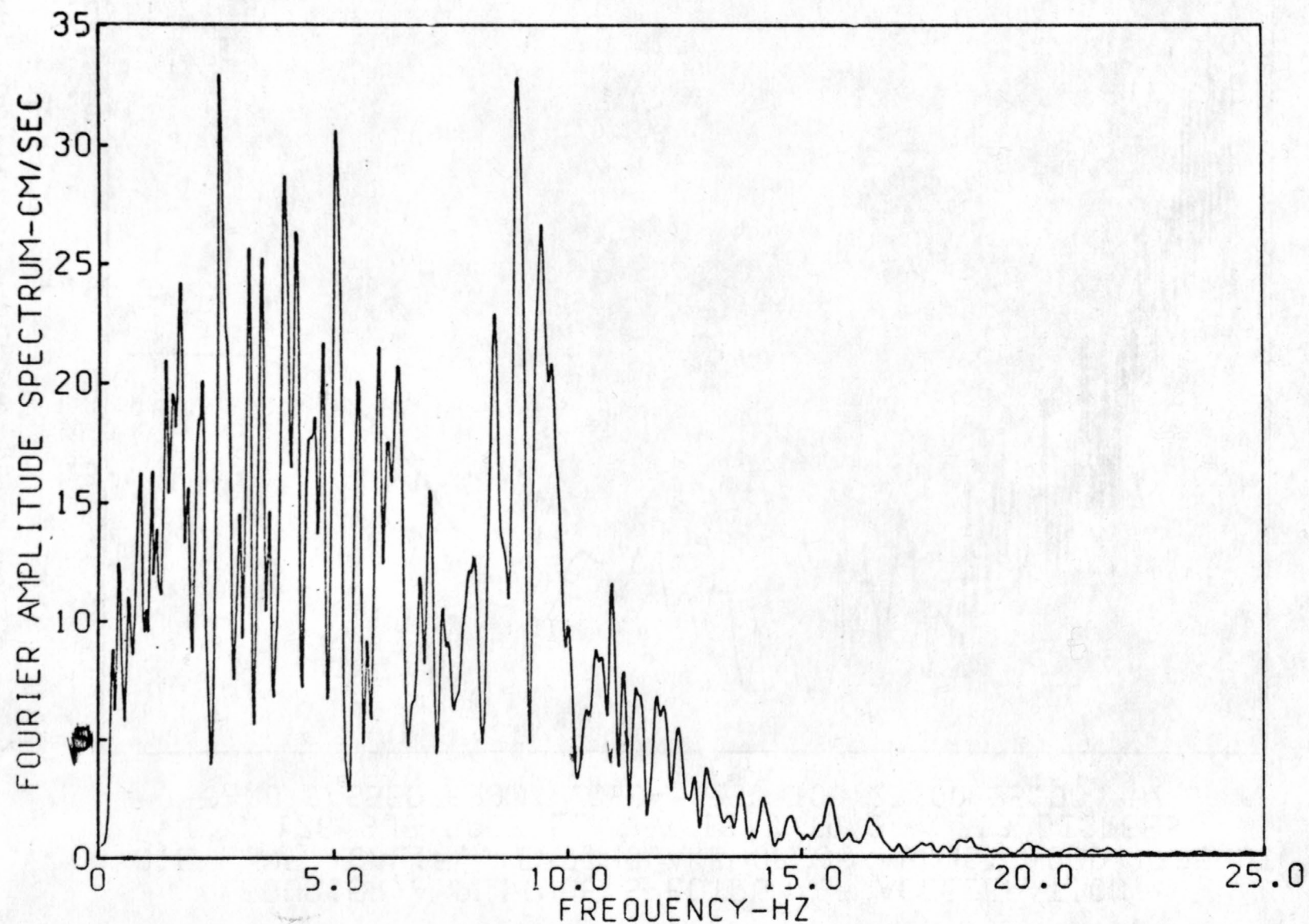
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIF.. EARTHQUAKE OF 06 AUGUST 1979 1705 UTC
DMG 126 SJB FREEFLD SMA 1678 TR 1 303 DEGREES
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



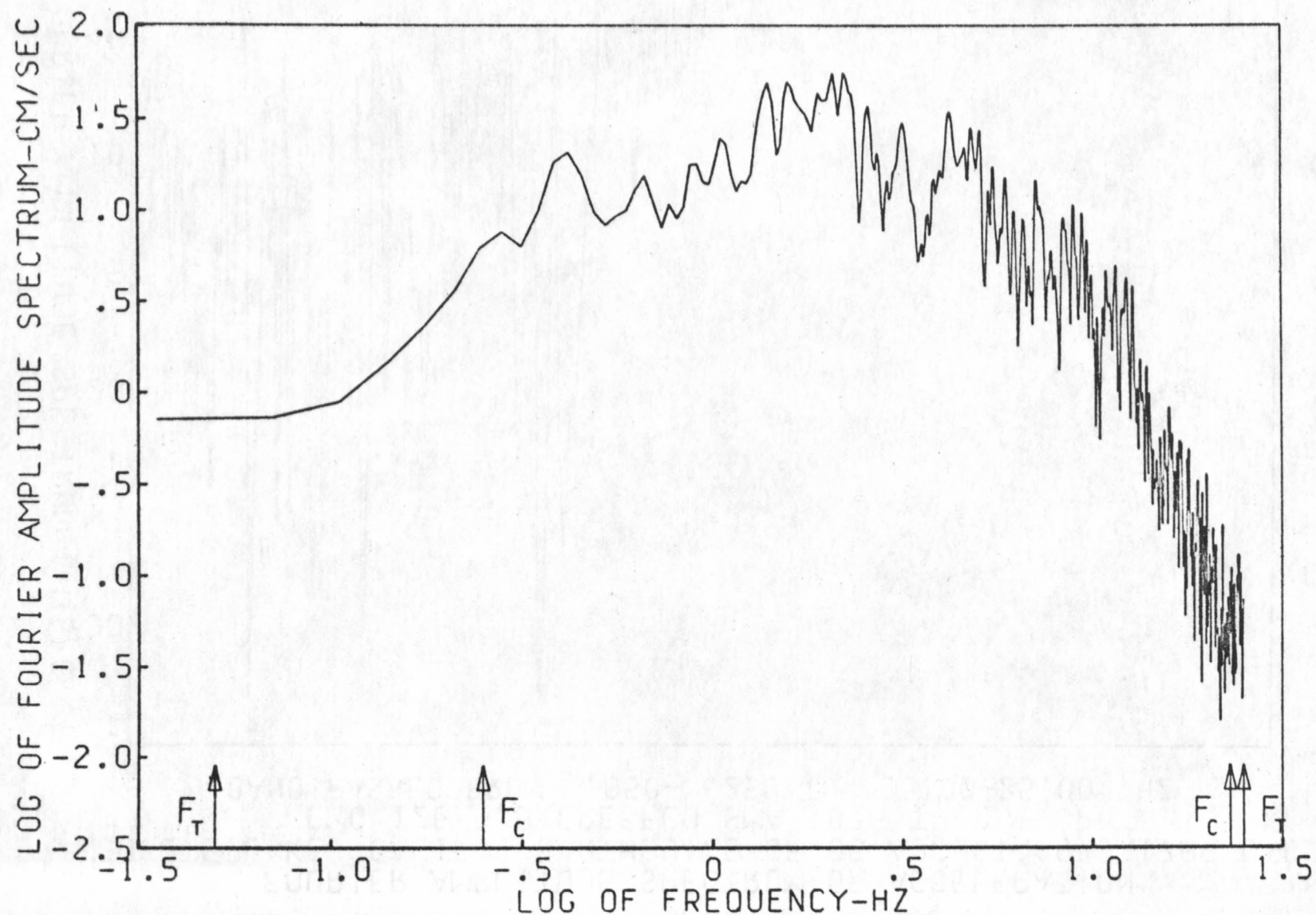
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIF., EARTHQUAKE OF 06 AUGUST 1979 1705 UTC
 DMG 126 SJB FREEFLD SMA 1678 TR 2 UP
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



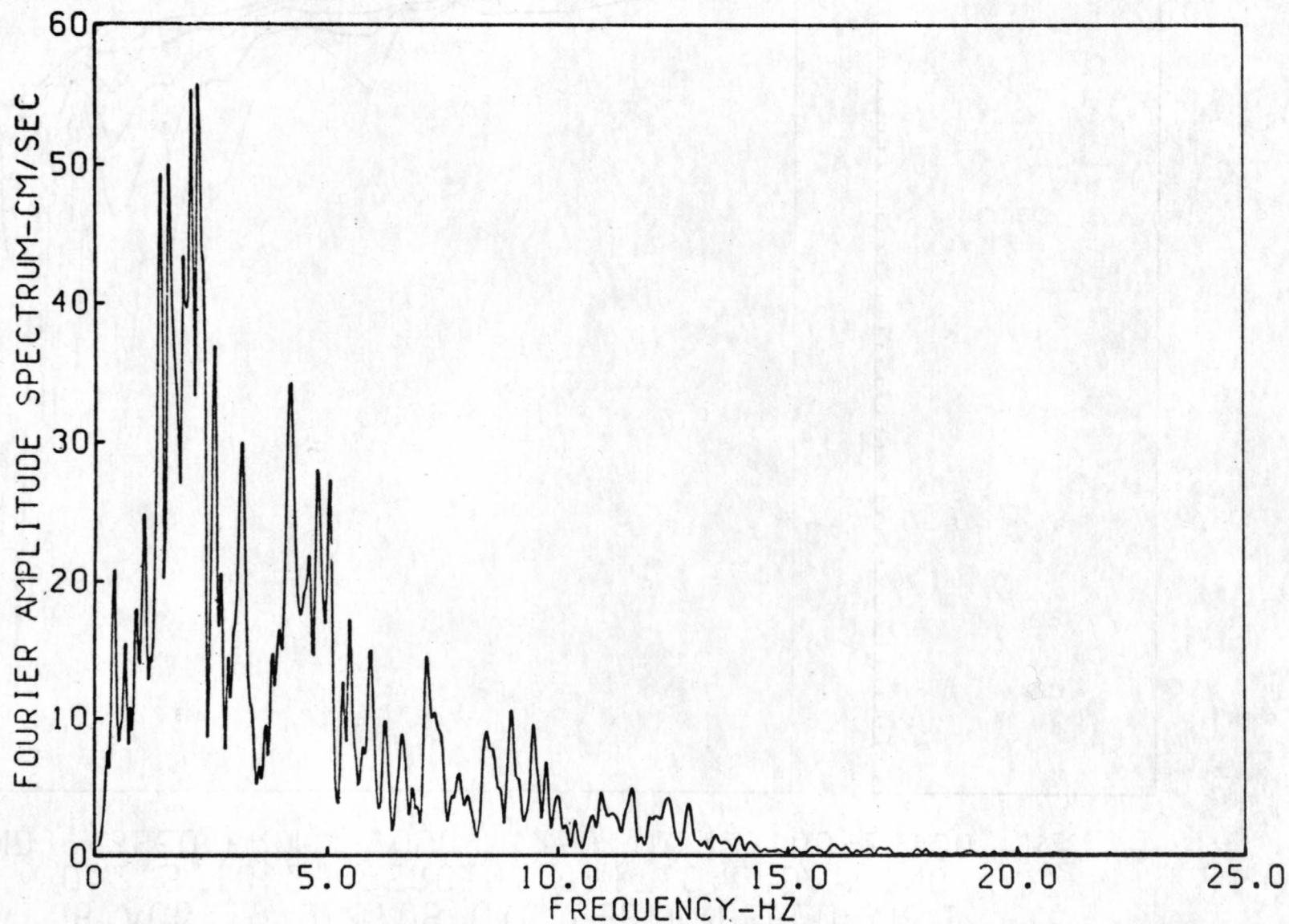
FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIF., EARTHQUAKE OF 06 AUGUST 1979 1705 UTC
DMG 126 SJB FREEFLD SMA 1678 TR 2 UP
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
 COYOTE LAKE, CALIF.. EARTHQUAKE OF 06 AUGUST 1979 1705 UTC
 DMG 126 SJB FREEFLD SMA 1678 TR 3 213 DEGREES
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



FOURIER AMPLITUDE SPECTRUM OF ACCELERATION
COYOTE LAKE, CALIF., EARTHQUAKE OF 06 AUGUST 1979 1705 UTC
DMG 126 SJB FREEFLD SMA 1678 TR 3 213 DEGREES
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

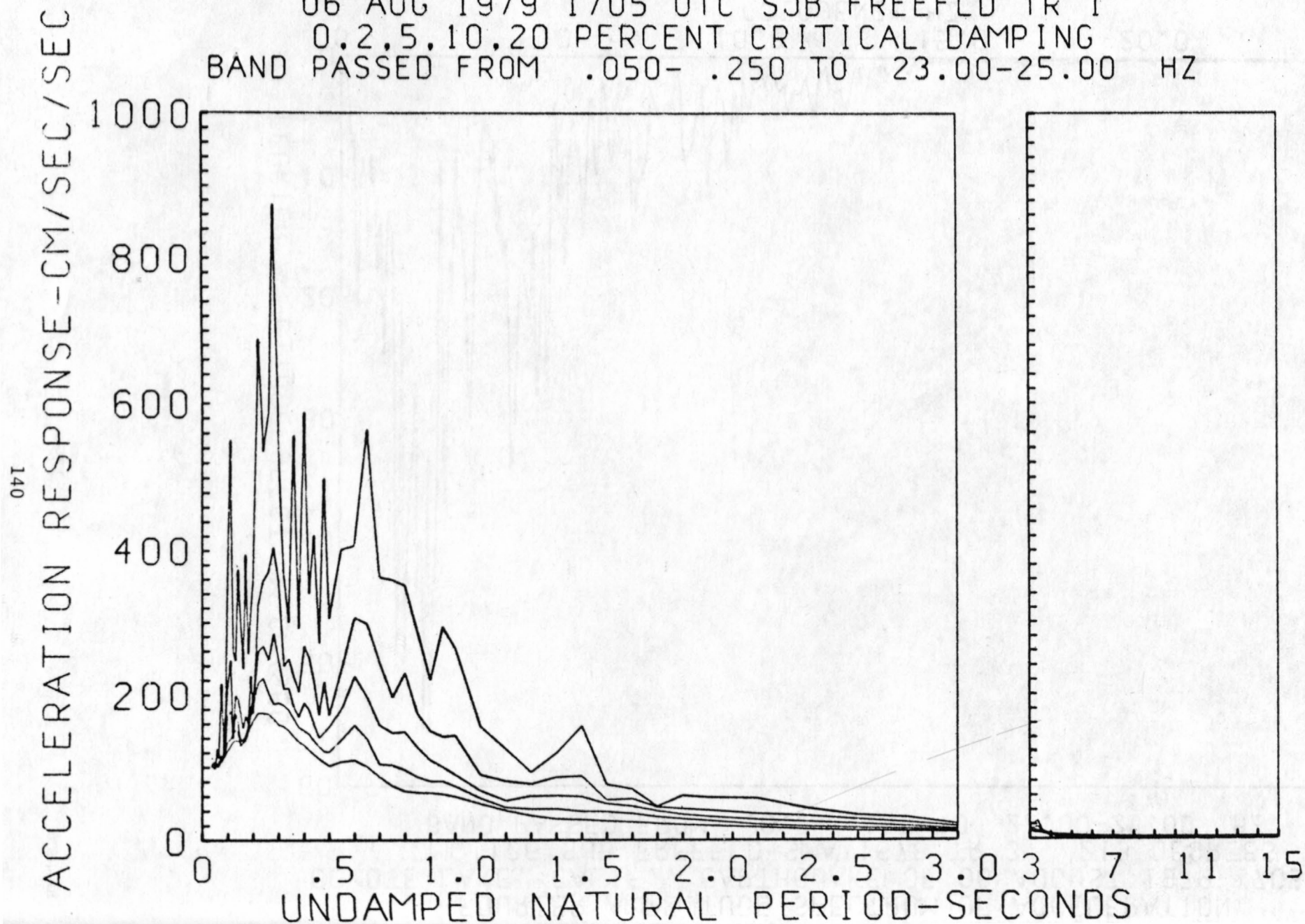


ABSOLUTE ACCELERATION RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB FREEFLD TR 1

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

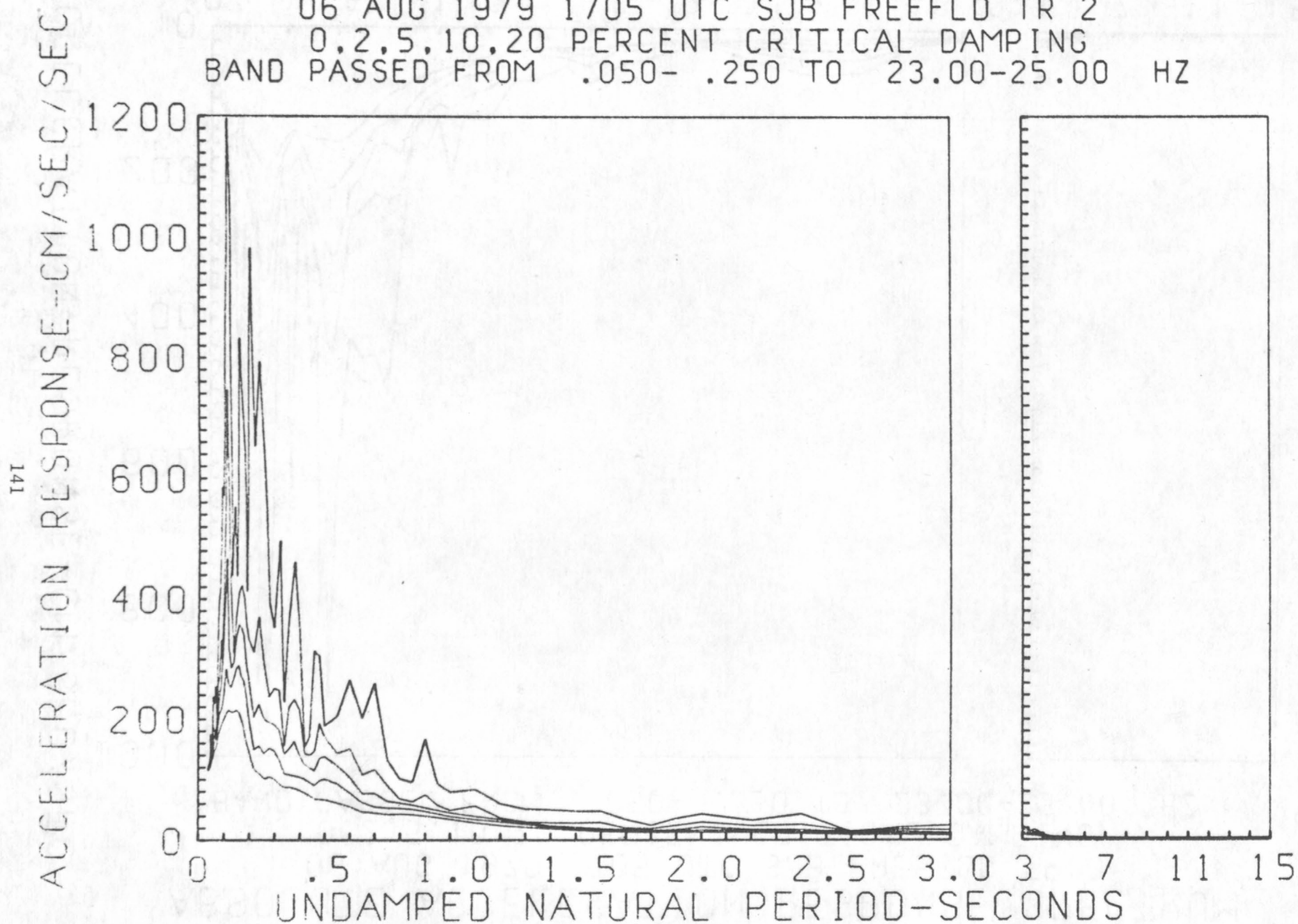


ABSOLUTE ACCELERATION RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB FREEFLD TR 2

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

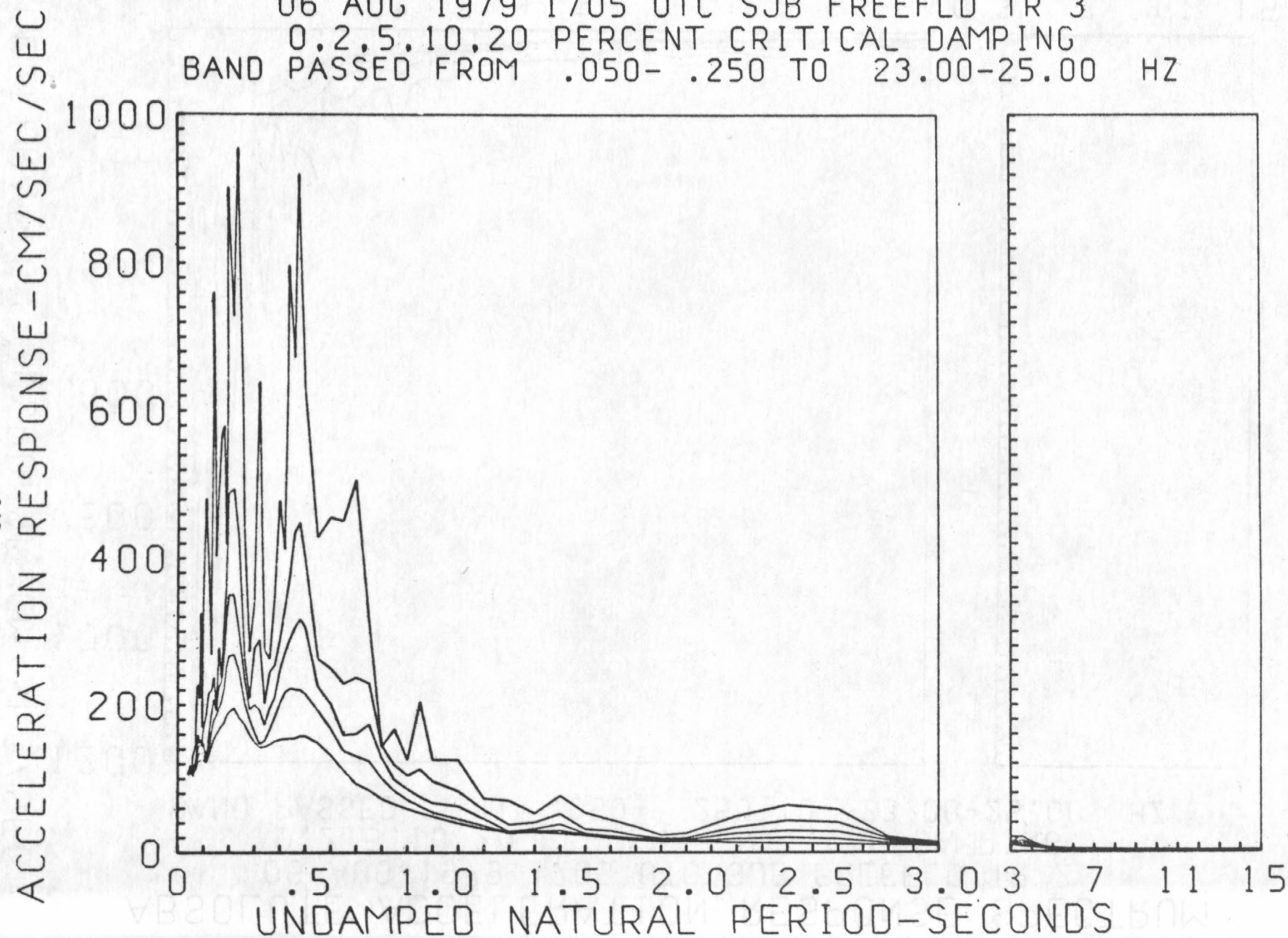


ABSOLUTE ACCELERATION RESPONSE SPECTRUM

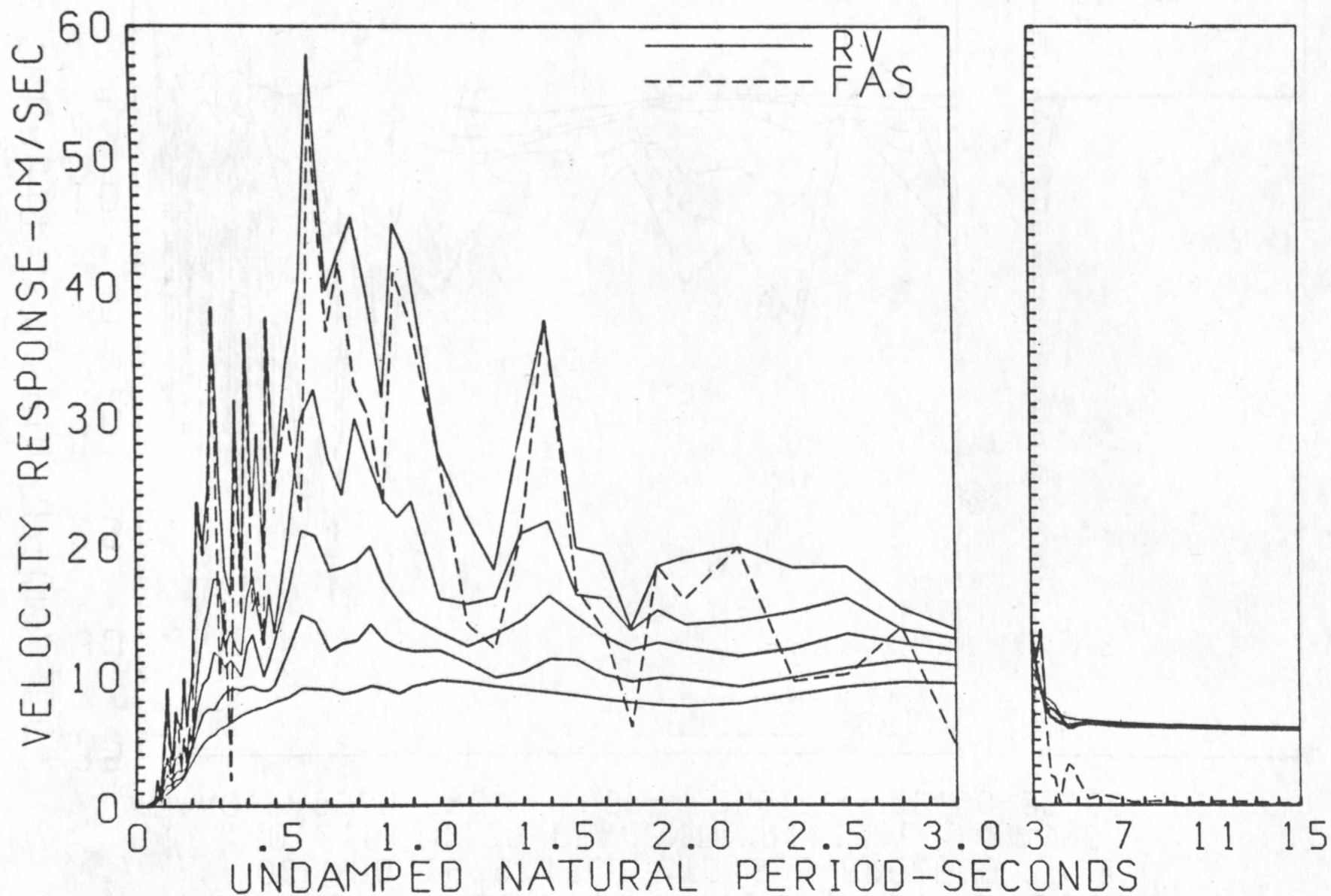
06 AUG 1979 1705 UTC SJB FREEFLD TR 3

0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



RELATIVE VELOCITY RESPONSE SPECTRUM
 06 AUG 1979 1705 UTC SJB FREEFLD TR 1
 0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

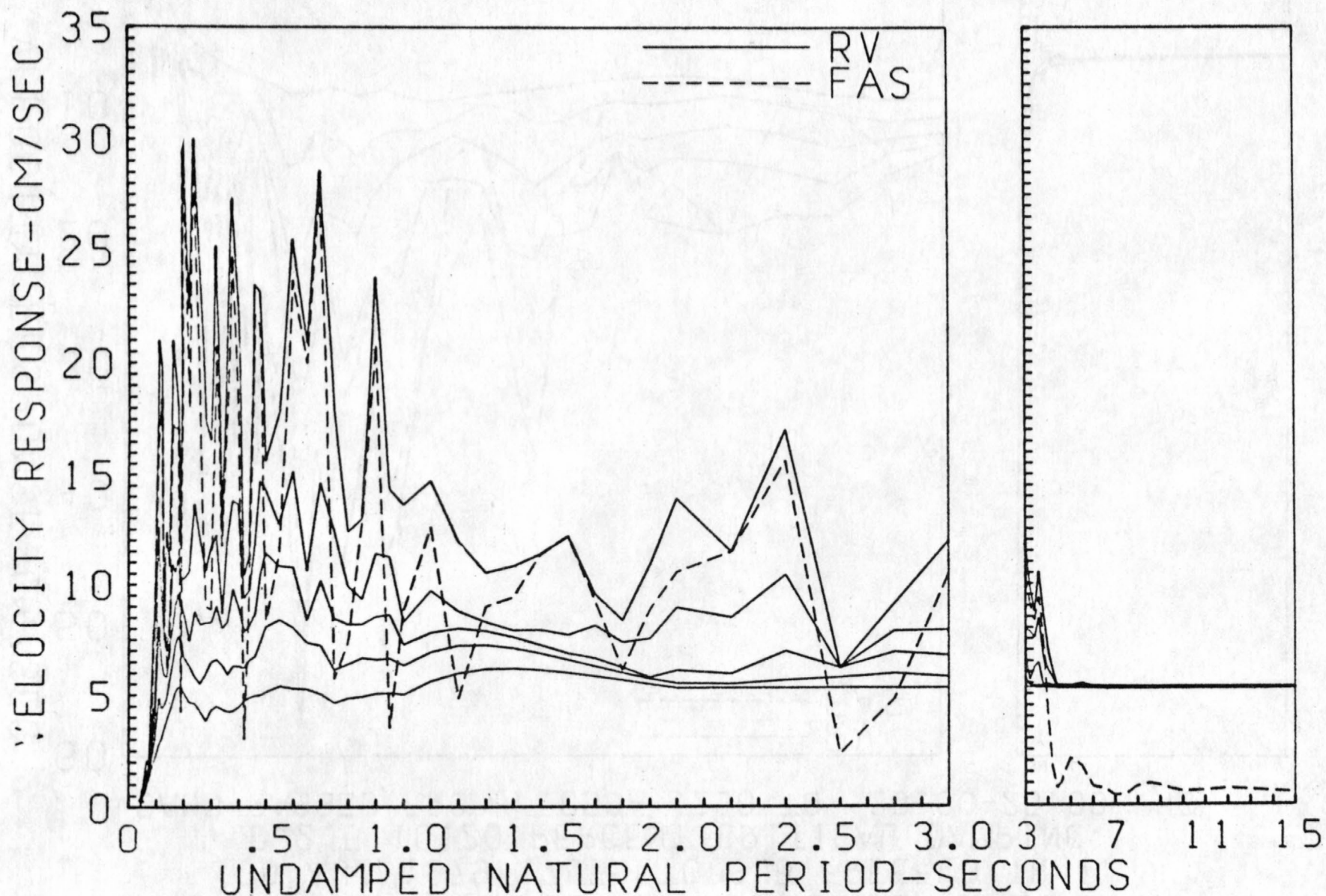


RELATIVE VELOCITY RESPONSE SPECTRUM

06 AUG 1979 1705 UTC SJB FREEFLD TR 2

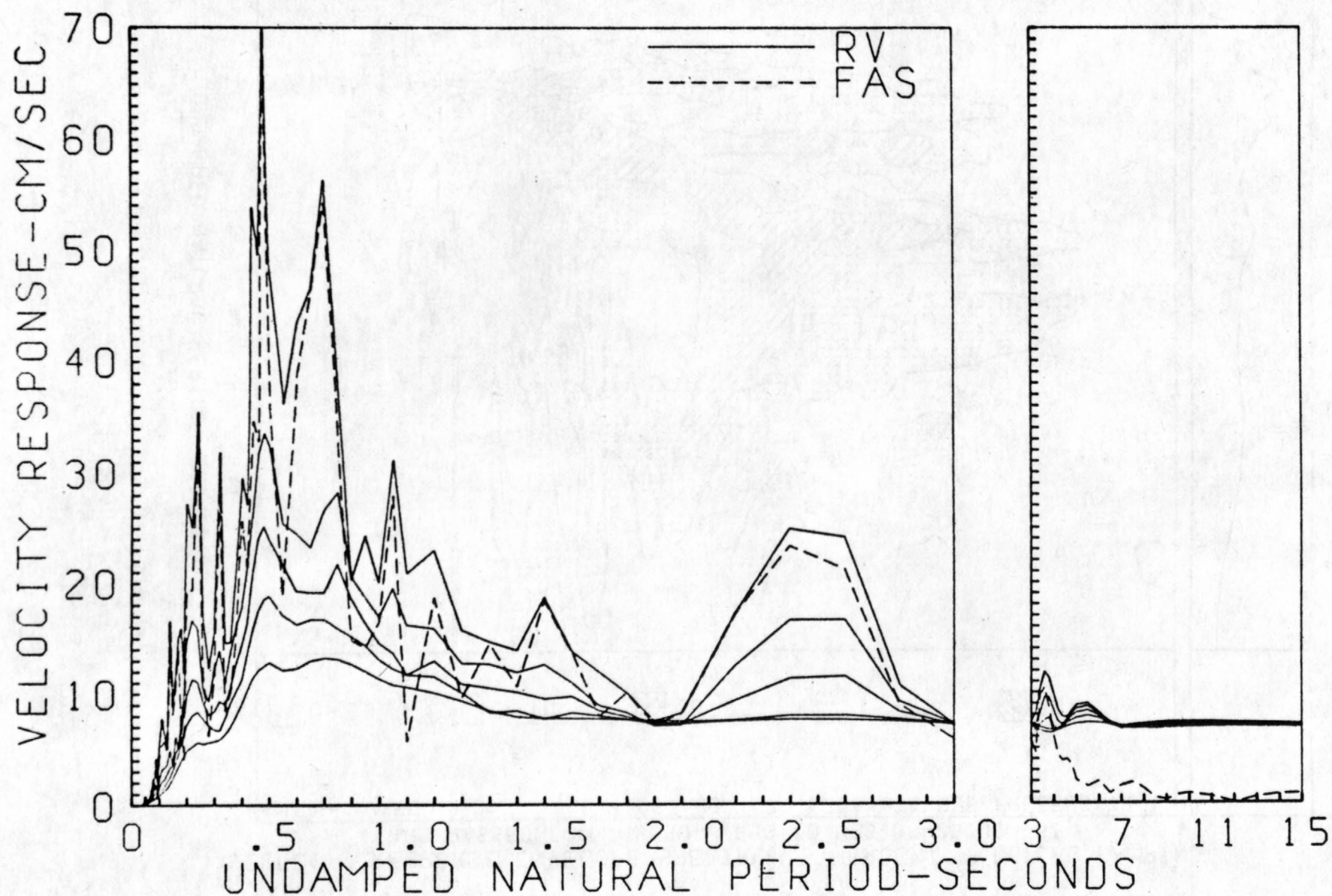
0.2, 5, 10, 20 PERCENT CRITICAL DAMPING

BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



RELATIVE VELOCITY RESPONSE SPECTRUM

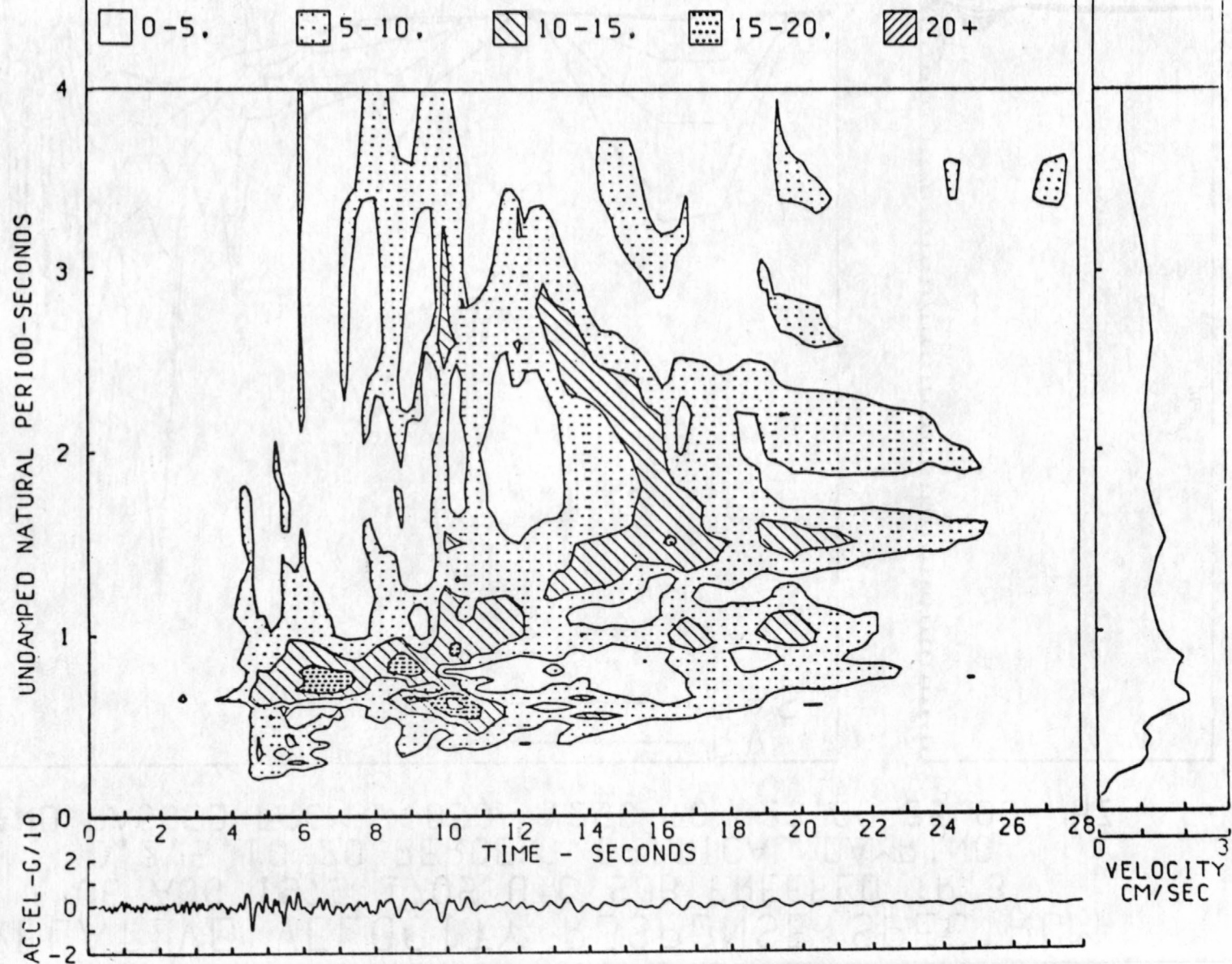
06 AUG 1979 1705 UTC SJB FREEFLD TR 3
 0.2, 5, 10, 20 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ



VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

UNITS=CM/SEC

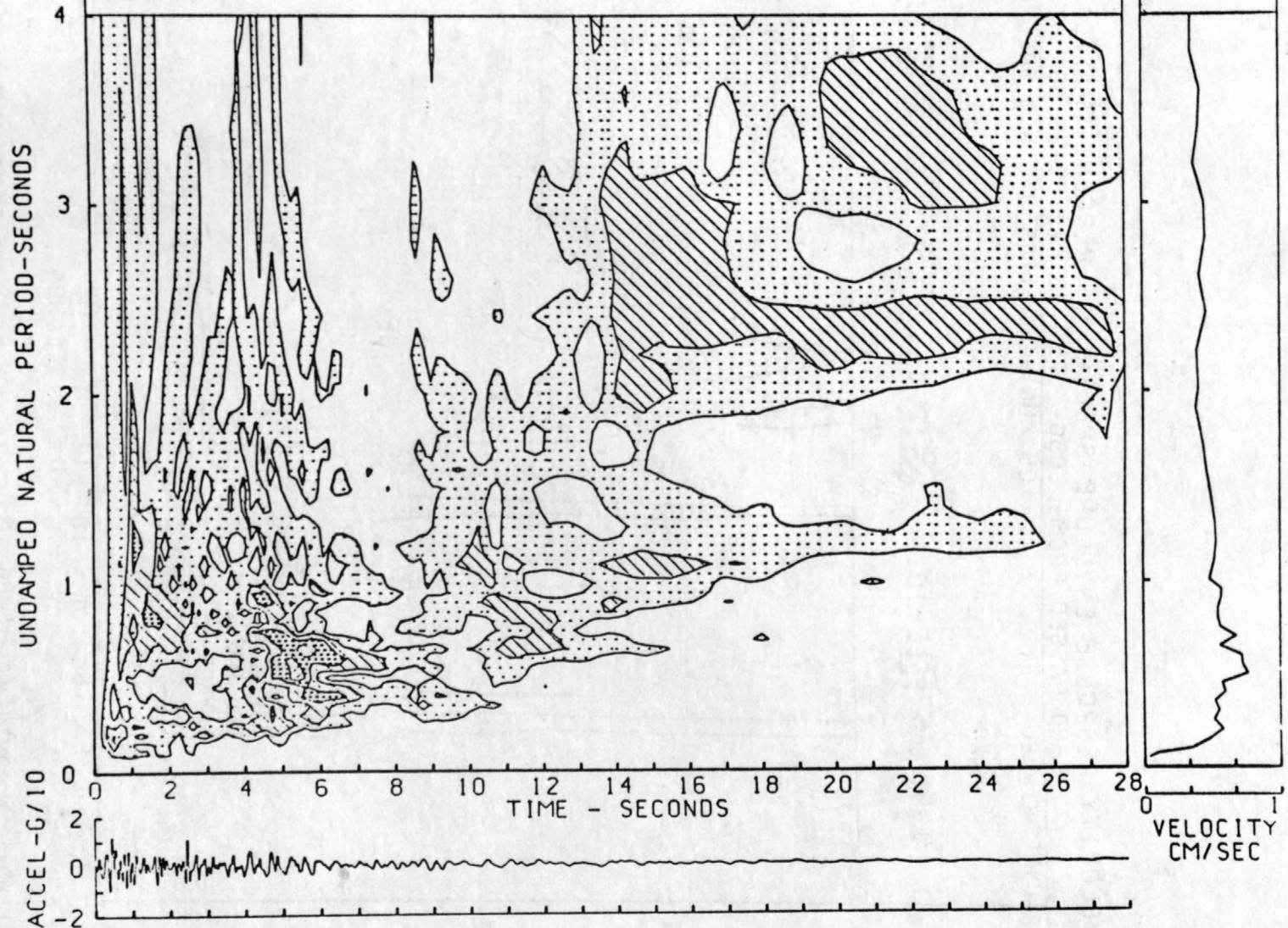
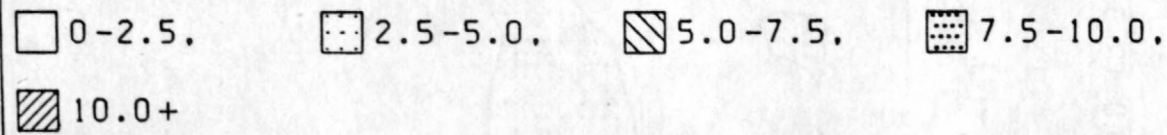
06 AUG 1979 1705 UTC SJB FREEFLO TR 1



VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

UNITS=CM/SEC

06 AUG 1979 1705 UTC SJB FREEFLD TR 2

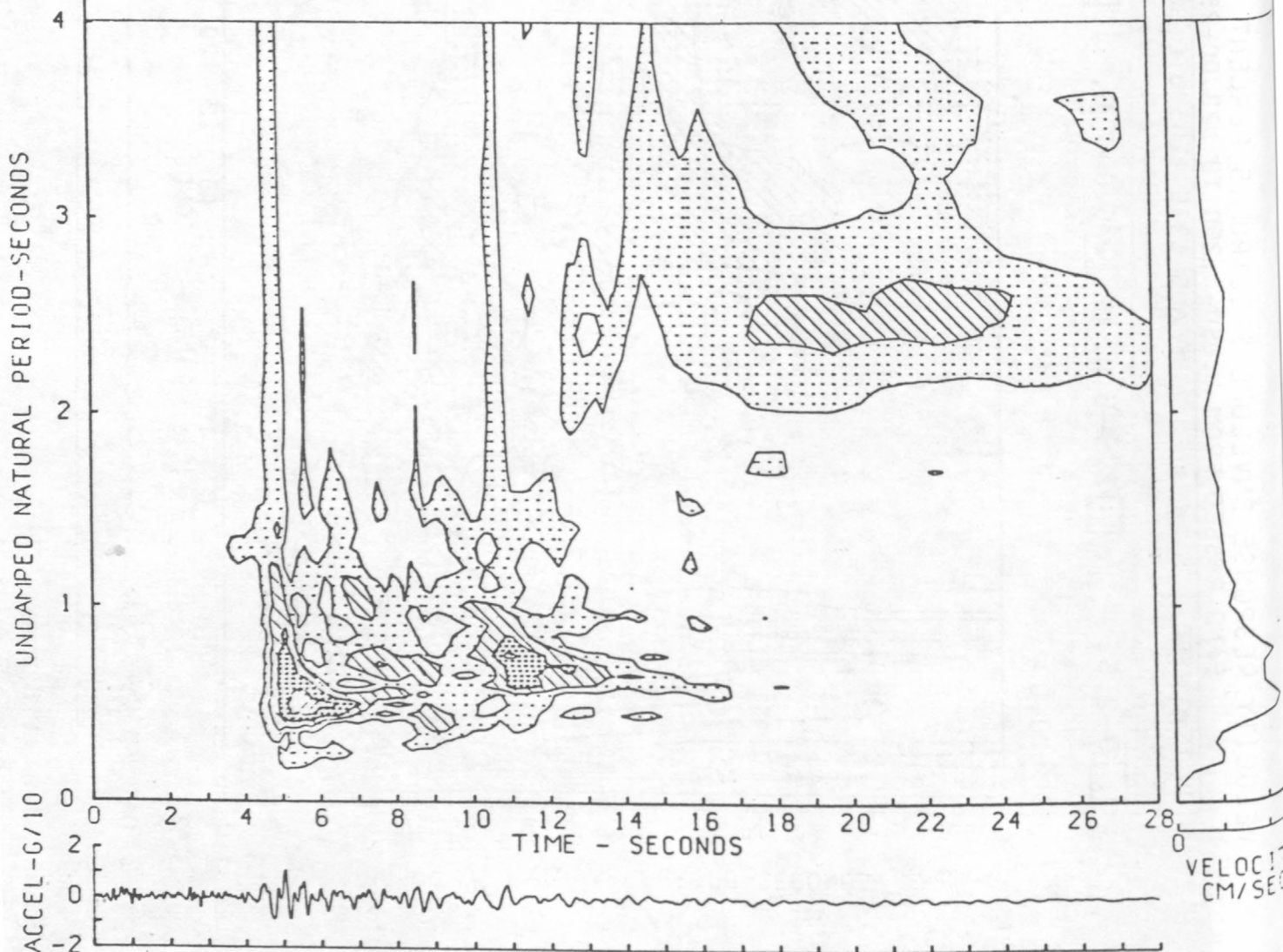


VELOCITY RESPONSE ENVELOPE SPECTRUM, 5 PERCENT CRITICAL DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ

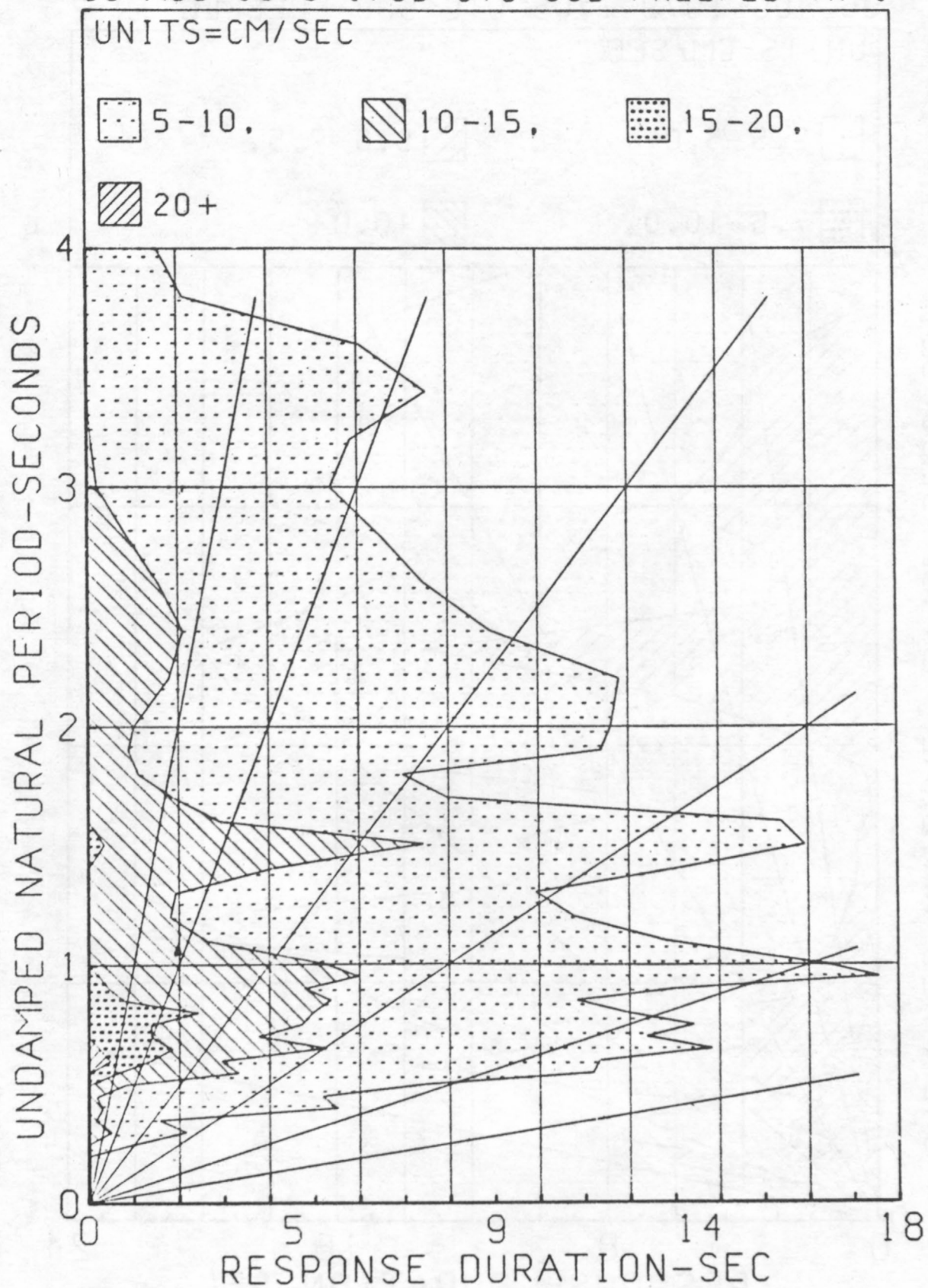
UNITS=CM/SEC

06 AUG 1979 1705 UTC SJB FREEFLD TR 3

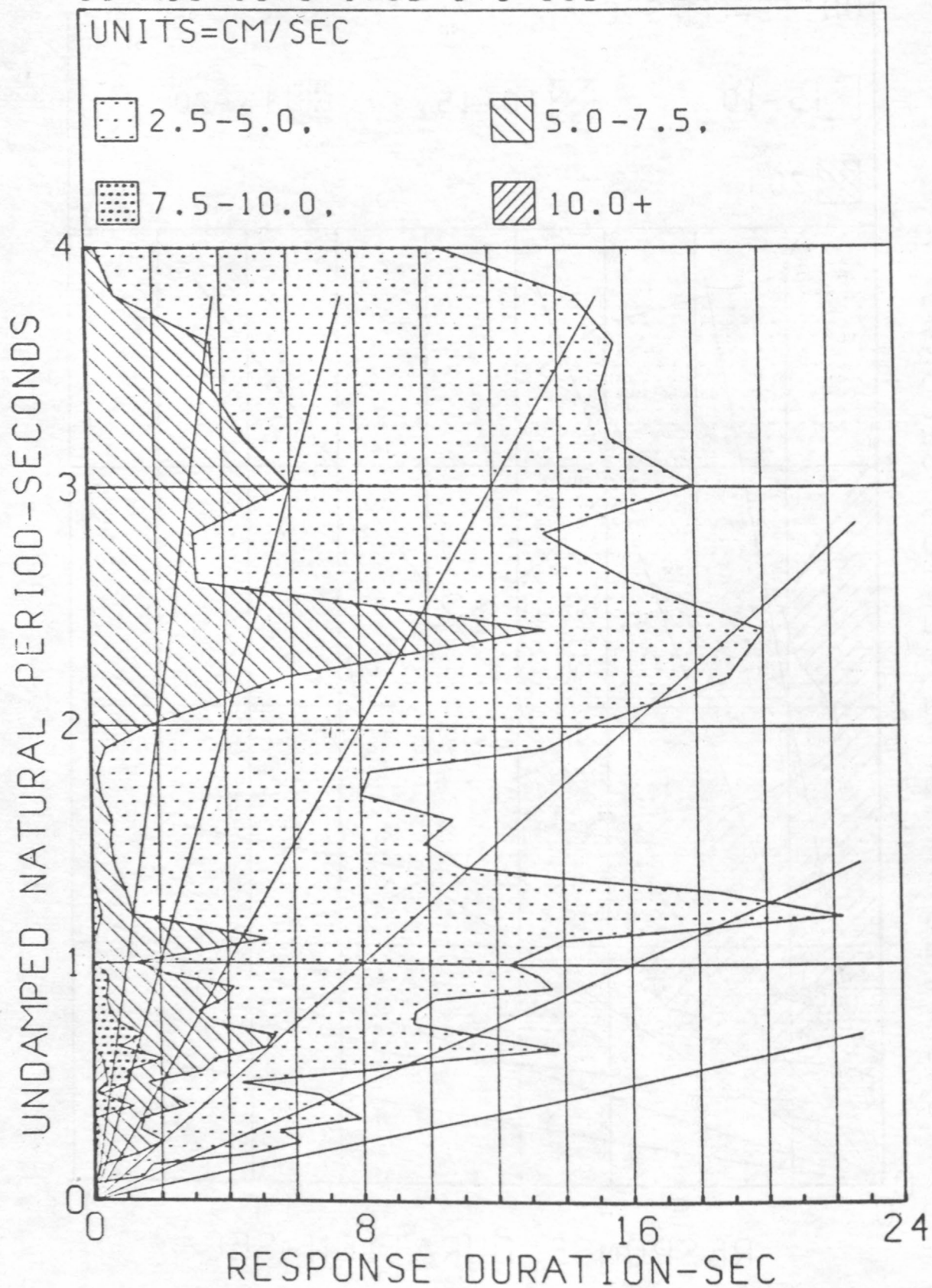
0-5. 5-10. 10-15. 15-20. 20+



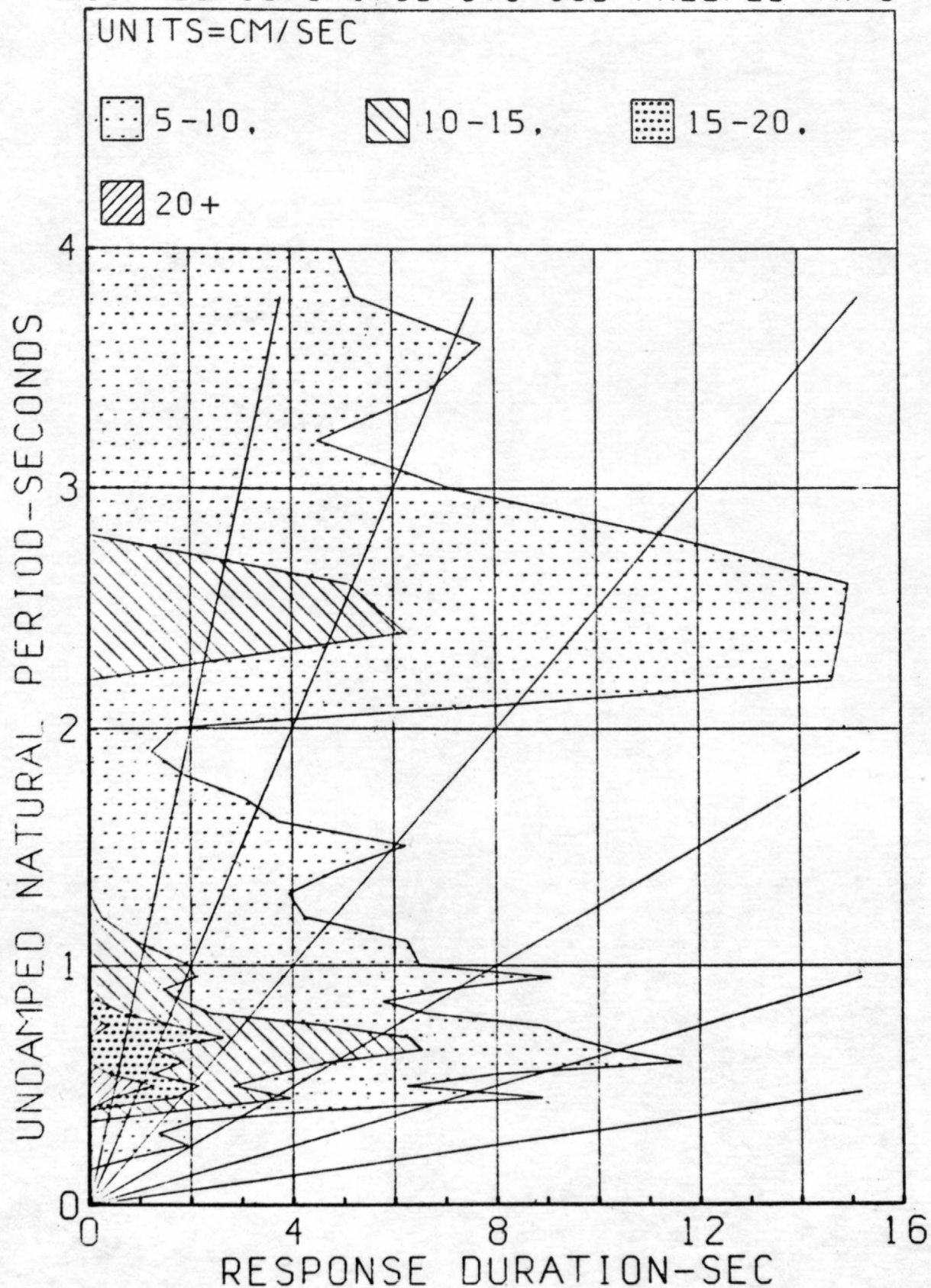
DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB FREEFLD TR 1



DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB FREEFLD TR 2



DURATION SPECTRUM OF THE VELOCITY
 RESPONSE ENVELOPE, 5 PERCENT DAMPING
 BAND PASSED FROM .050- .250 TO 23.00-25.00 HZ
 06 AUG 1979 1705 UTC SJB FREEFLD TR 3



PROCESSED DATA FROM THE SAN JUAN BAUTISTA 101/156 SEPARATION BRIDGE AND THE
SAN JUAN BAUTISTA FREEFIELD RECORDS FROM THE COYOTE LAKE EARTHQUAKE 6 AUGUST 1979
Special Publication 64

