STATE OF CALIFORNIA—THE RESOURCES AGENCY PETE WILSON, Governor

DEPARTMENT OF CONSERVATION
DIVISION OF MINES AND GEOLOGY
OFFICE OF STRONG MOTION STUDIES
630 BERCUT DRIVE
SACRAMENTO, CA 95814-0189
(PHONE 916—322-3105)

Plots To Accompany Tapes:
PALMSPRINGS86-IB (Phase 1 data)
PALMSPRINGS86-B (Phase 2 & 3 data)

Processed Strong-Motion Data from the Palm Springs Earthquake of 8 July 1986

Building Records

California Strong Motion Instrumentation Program (CSMIP)

Report No. OSMS 91-16

The attached plots are for the records from 5 buildings that recorded the 1986 Palm Springs earthquake. The plots for these buildings are arranged as follows:

Set No.	Building Name	No. of Channels
1	Palm Springs - Desert Hospital	13
2	Palm Desert - Kiewit Bldg.	9
3	Hemet - City Library	6
4	Redlands - Interstate Van Lines	12
5	Ranch Cucamonga - Law & Justice Center	19

The set of plots for each building is identified by the above building number at the upper corner of each page. For each building, five groups of plots are presented in the following order:

1. The raw record for the first 44 seconds with all channels from a recorder shown on a single page.

2. Phase 1 (Vol. 1) data: uncorrected accelerations. Acceleration for the first 40 seconds are plotted with channels individually scaled. Three channels are plotted on one page.

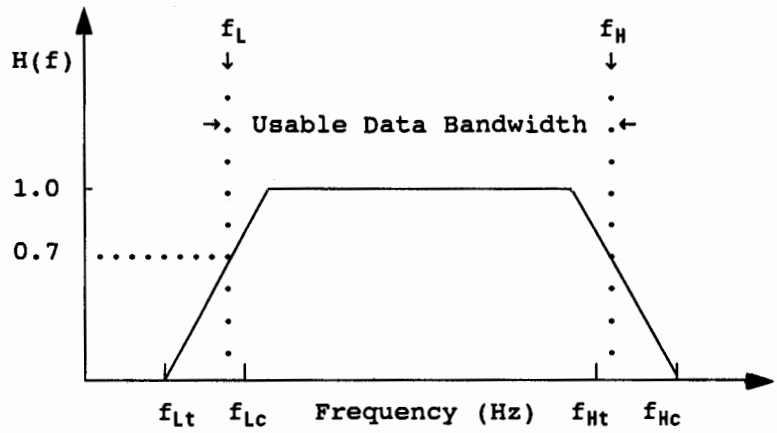
3. Phase 2 (Vol. 2) data: instrument and baseline-corrected acceleration, velocity and displacement. The data for the first 40 seconds are plotted with equal scaling for all channels unless otherwise specified. Three channels are plotted on each page. The filter bandwidth of the Phase 2 data, as determined during processing, is indicated on the plots.

4. Phase 3 (Vol. 3) data: response and Fourier spectra. The pseudo-velocity spectra (PSV), the pseudo-acceleration spectra (PSA), the displacement spectra (SD) and the Fourier amplitude spectra (FS) for are presented on a tripartite logarithmic plot for each channel. The spectra are plotted for periods within the filter bandwidth used in Phase 2 processing.

5. Phase 3 (Vol. 3) data: response spectra. The absolute acceleration spectra (SA) for 0%, 2%, 5%, 10% and 20% dampings are plotted against period with linear-linear scaling.

USABLE DATA BANDWIDTH

The filter bands for each record are indicated on the plots for the Phase 2 and Phase 3 data. The digitized data are processed and filtered using Ormsby filters. The data are first low-pass filtered by a high-frequency filter (typically with a corner frequency of 23 Hz and a roll-off termination frequency of 25 Hz), and then high-pass filtered by a low-frequency filter. The corner frequency of the low-frequency filter may be different for different records. Therefore, the Phase 2 data is the result of the digitized data being filtered by the bandpass filter H(f) with ramps as shown in the figure:



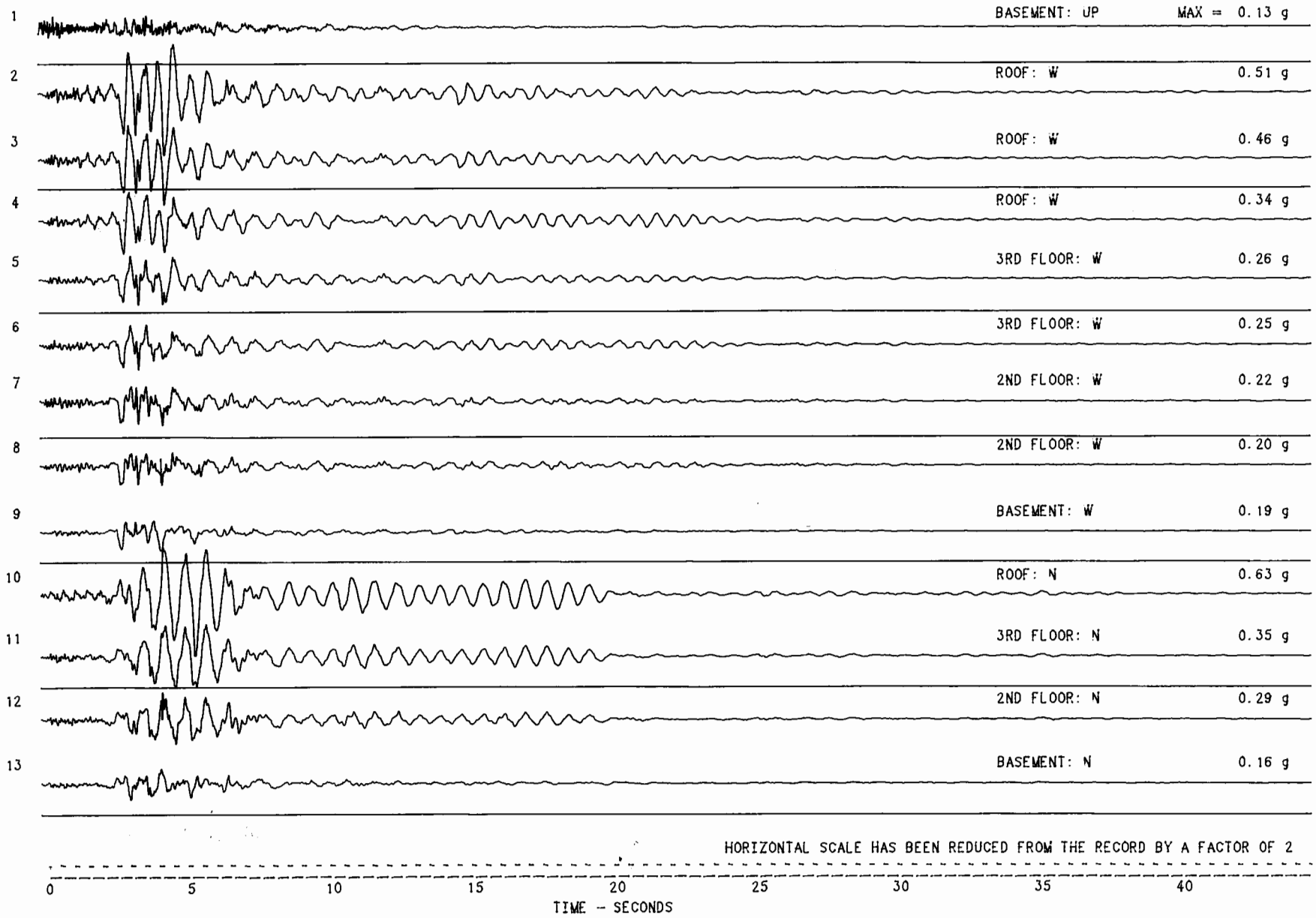
The usable data bandwidth is defined as the band between frequencies f_H and f_L, where f_H and f_L are the -3 dB points on the high-frequency and low-frequency ramps, respectively. The value of H(f) is approximately equal to 0.7 for -3 dB (see Notes). The user should only use these data for analyses within this bandwidth.

Notes:

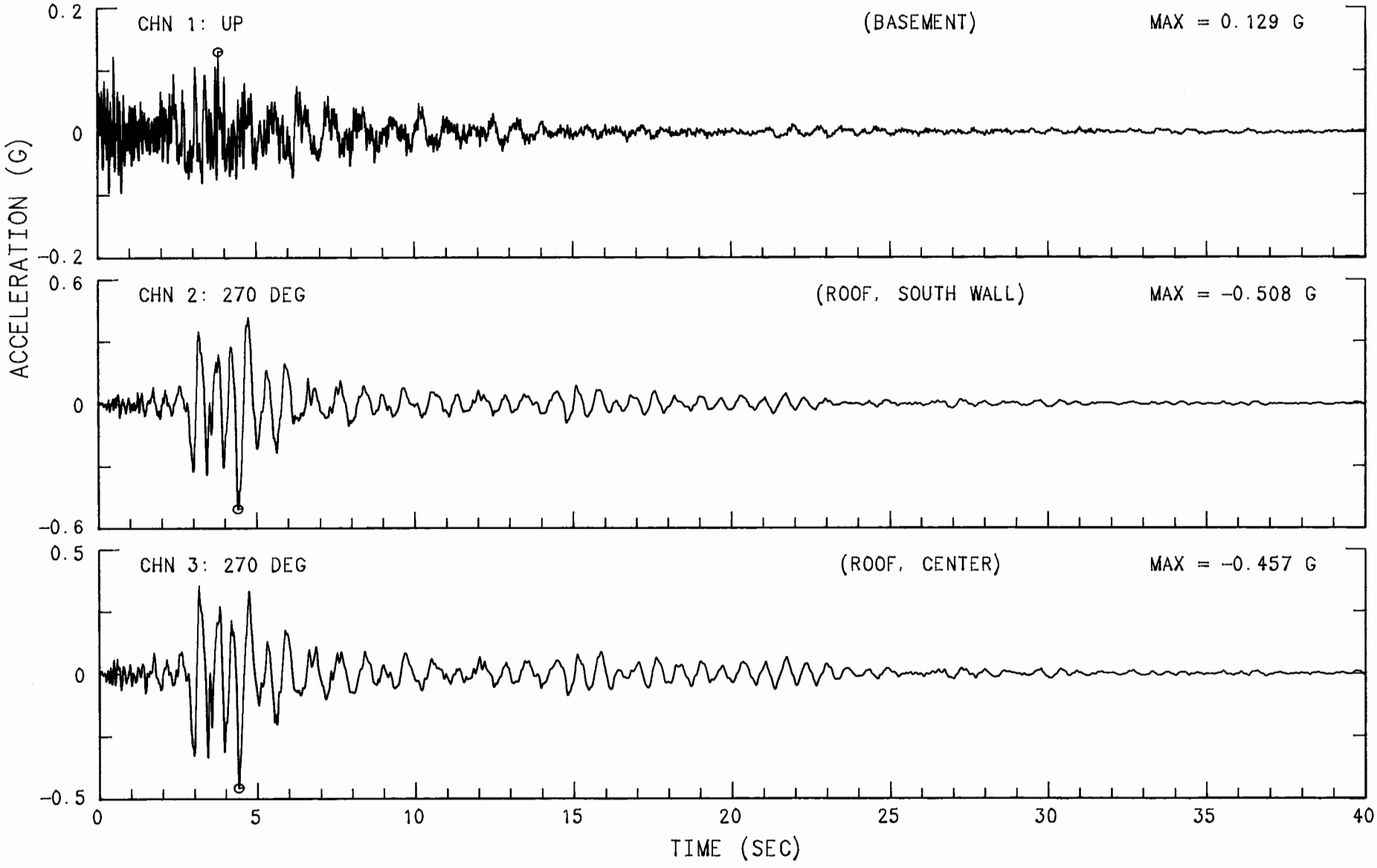
1) The values of f_H and f_L can be calculated from the corner frequencies (f_{Hc}, f_{Lc}) and the roll-off termination frequencies (f_{Ht}, f_{Lt}) used in the processing by using the formulas $f_H = f_{Hc} + 0.3 * (f_{Ht} - f_{Hc})$ and $f_L = f_{Lc} - 0.3 * (f_{Lc} - f_{Lt})$. For example, the usable data bandwidth for data bandpass-filtered with ramps at 0.25 to 0.50 Hz and 23.0 to 25.0 Hz is 0.42 Hz to 23.6 Hz.

2) It is common in signal processing to plot 20 $\log_{10}[H(f)]$ versus frequency, and express the ordinate value in decibels (abbreviated dB). Accordingly, 0 dB corresponds to a value of H(f) equal to 1; 20 dB is equivalent to H(f) = 10, and -20 dB corresponds to H(f) = 0.1. Thus, at the -3 dB frequency point, the amplitude of the transfer function, H(f) is reduced to 0.7, while the power transmitted by the filter, $H^2(f)$, is reduced to 0.5.

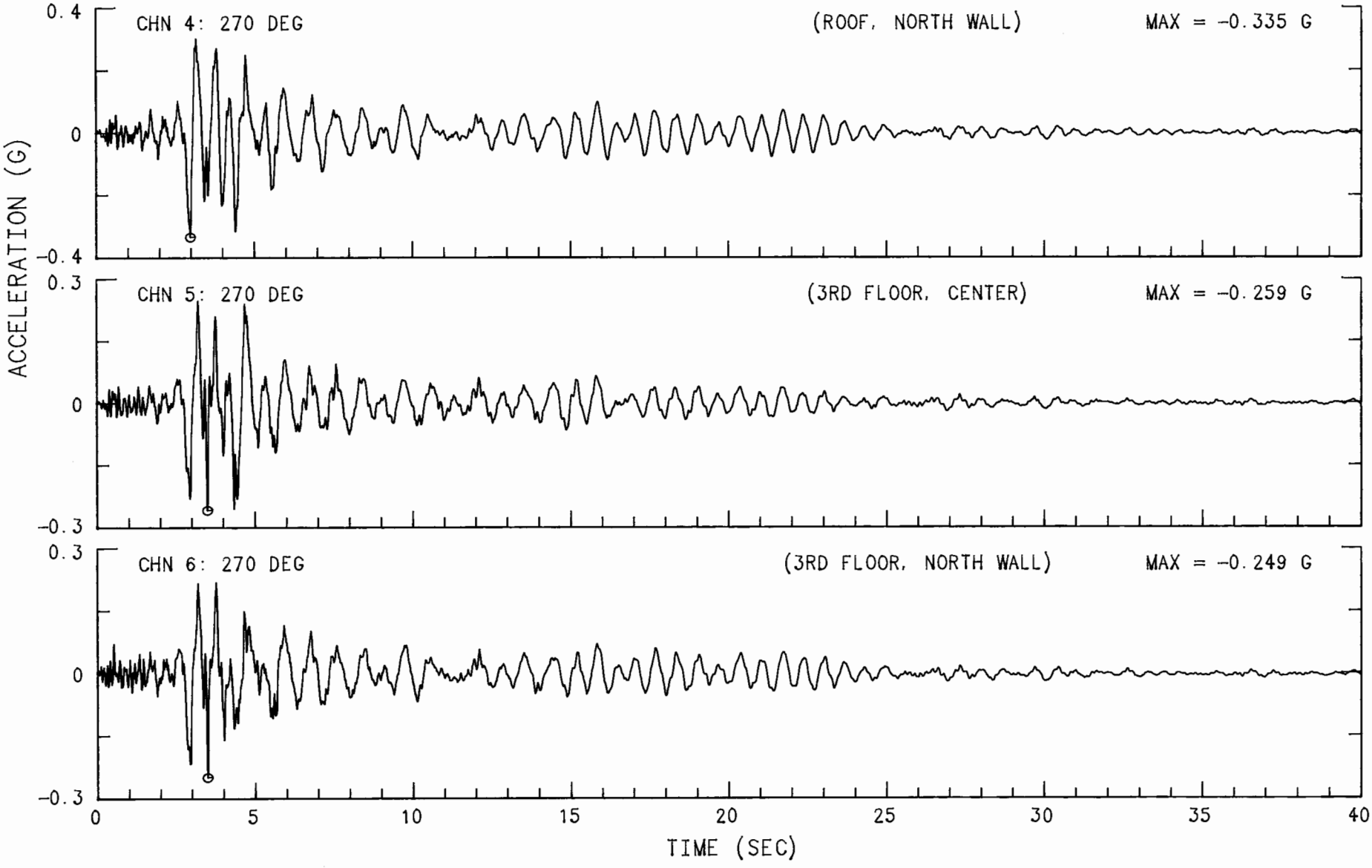
PALM SPRINGS - DESERT HOSPITAL RECORD 12299-C0192-86189.01 PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT



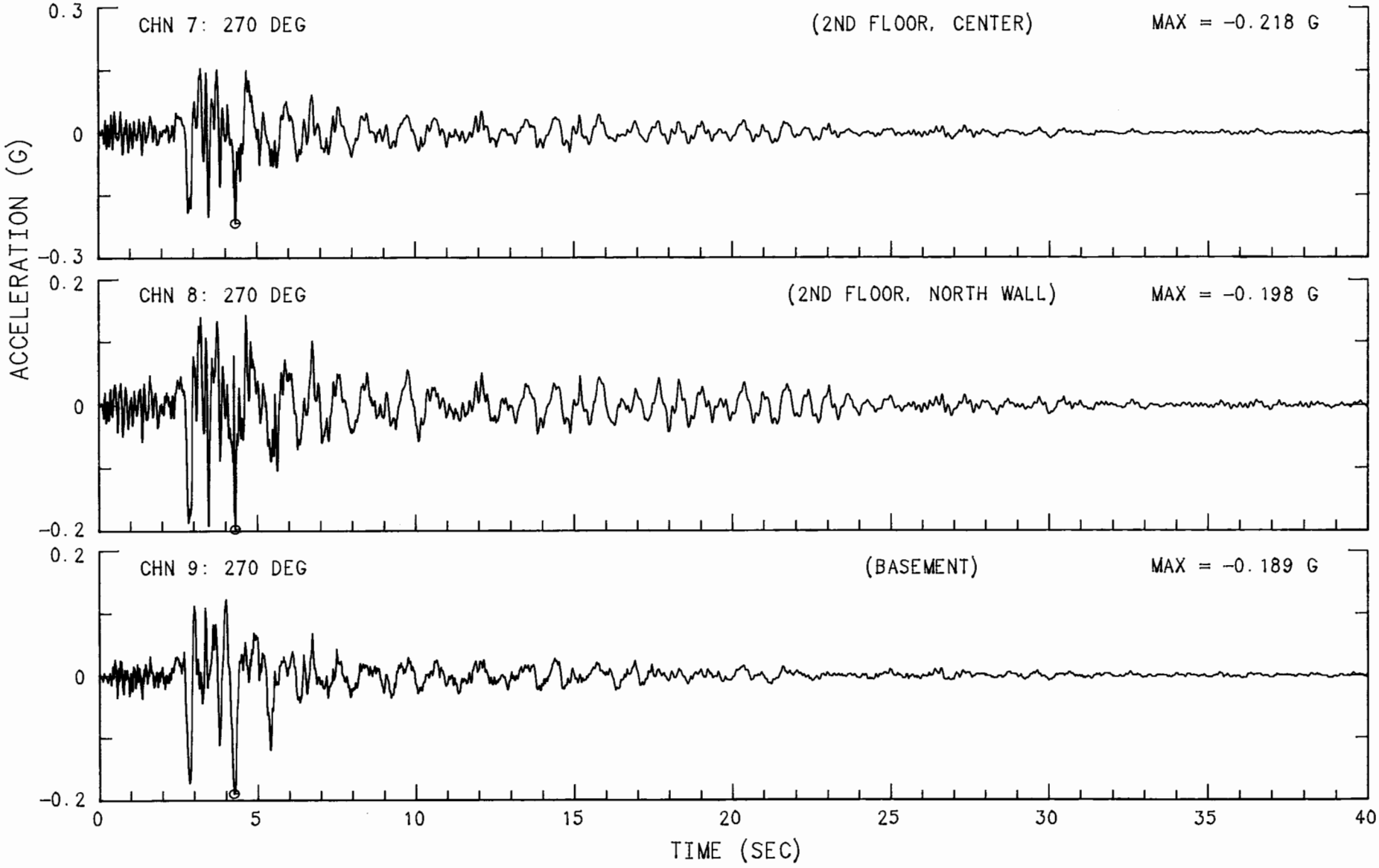
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
UNCORRECTED ACCELEROGRAM 12299-C0192-86189.01 061887.1130-QP86A299



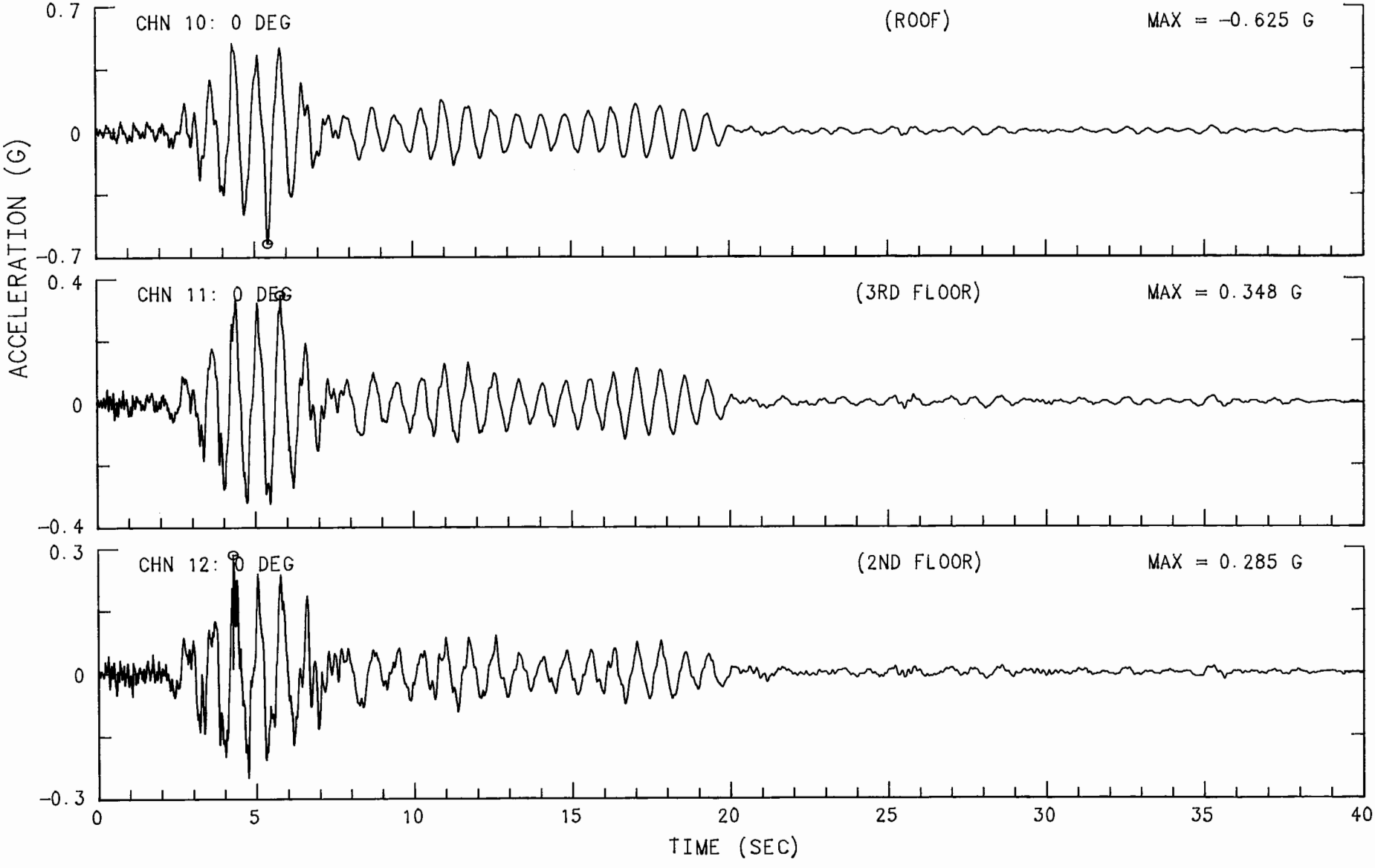
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS – DESERT HOSPITAL
UNCORRECTED ACCELEROGRAM 12299-C0192-86189.01 061887.1130-QP86A299



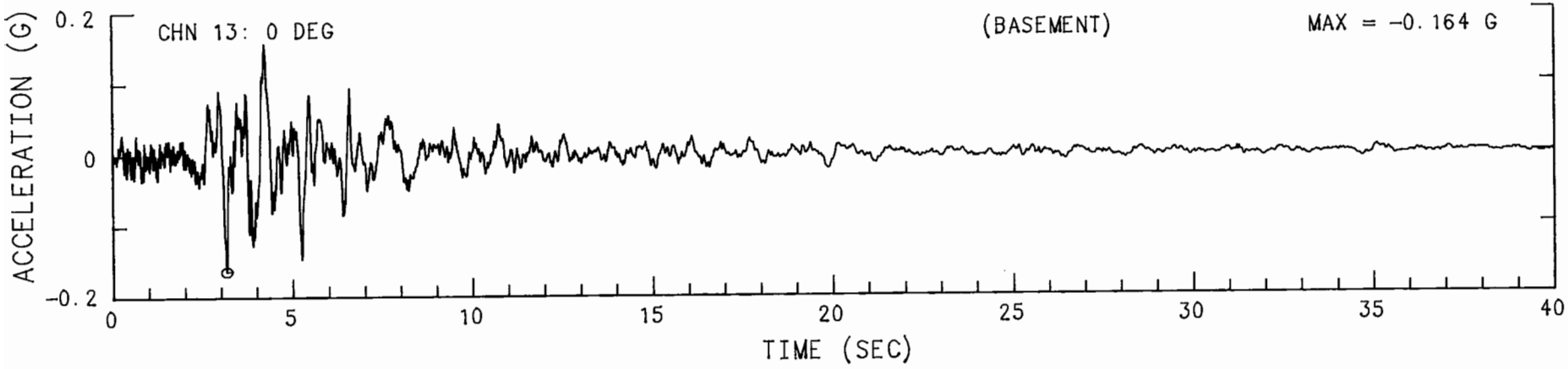
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
UNCORRECTED ACCELEROGRAM 12299-C0192-86189.01 061887.1130-QP86A299



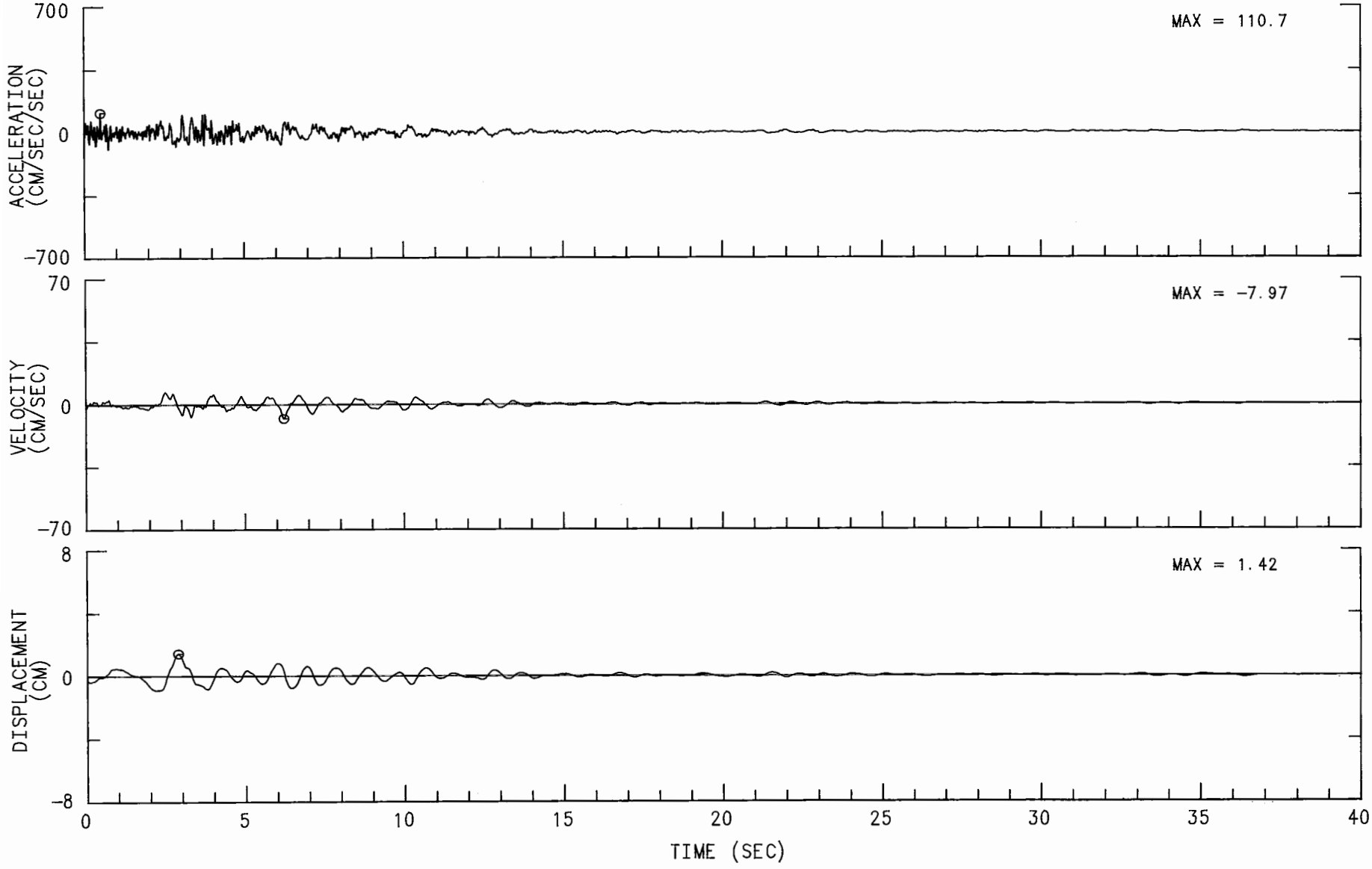
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
UNCORRECTED ACCELEROGRAM 12299-C0192-86189.01 061887.1130-QP86A299



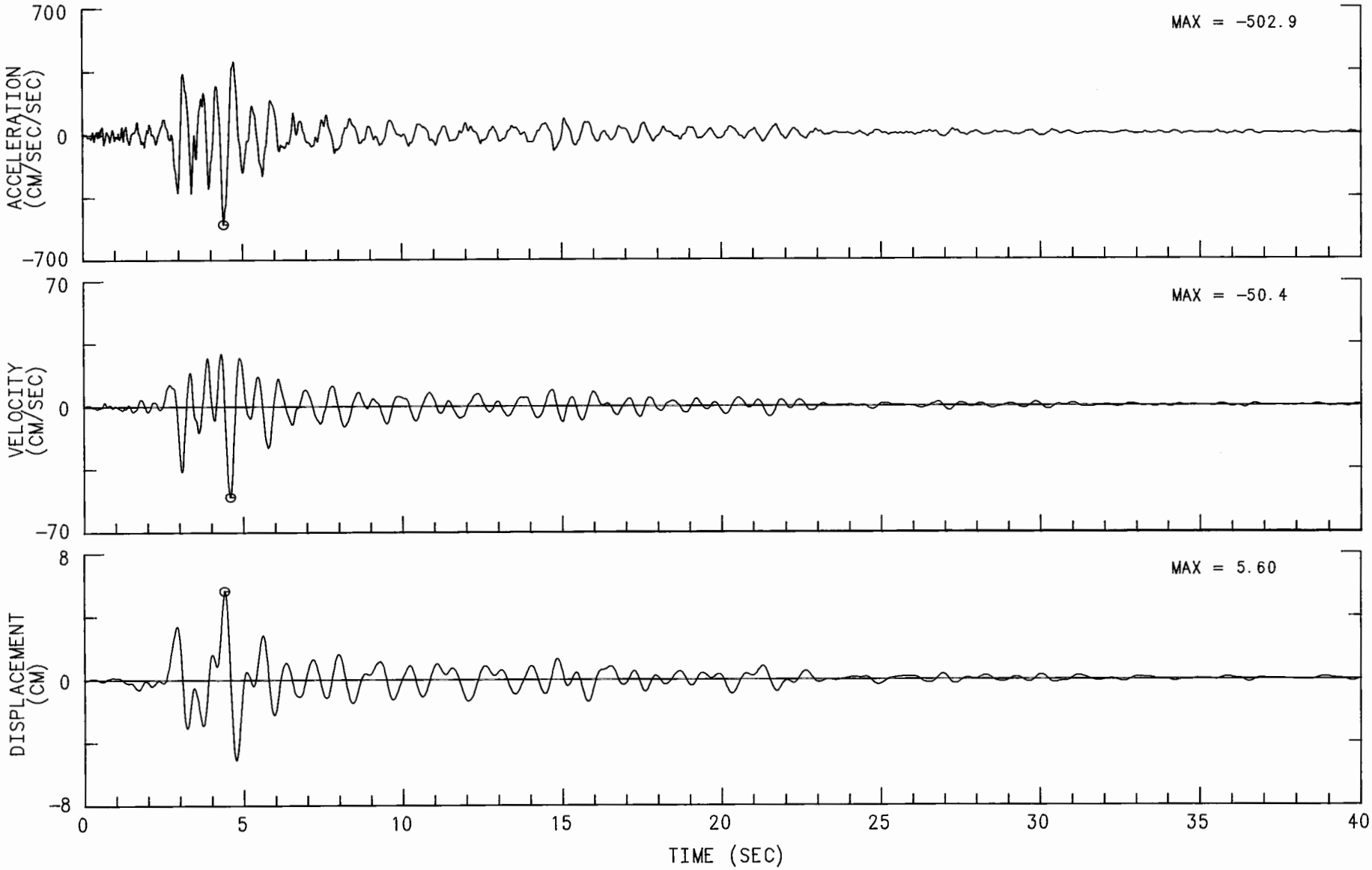
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
UNCORRECTED ACCELEROGRAM 12299-C0192-86189.01 061887.1130-QP86A299



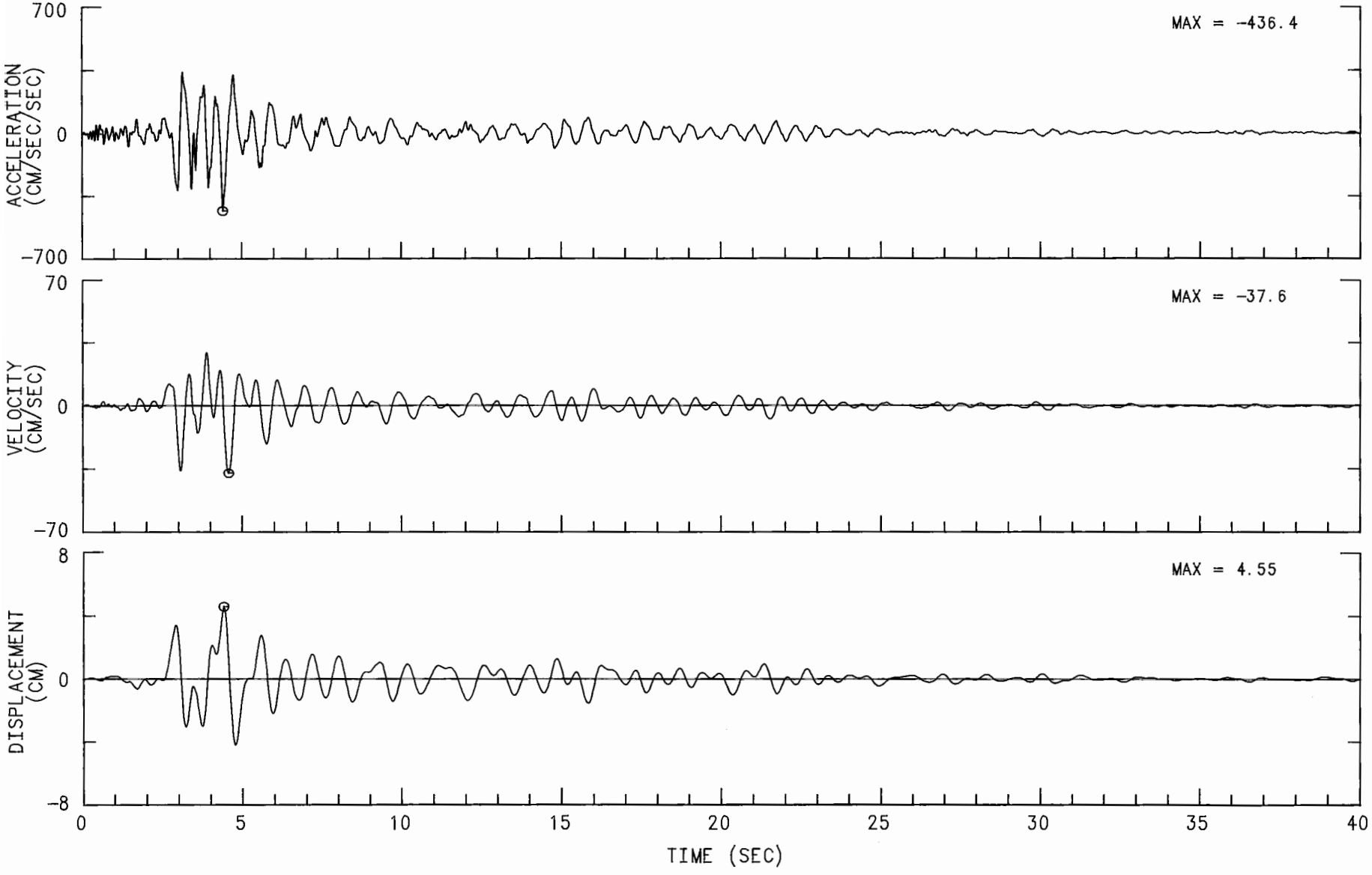
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 1: UP (BASEMENT)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



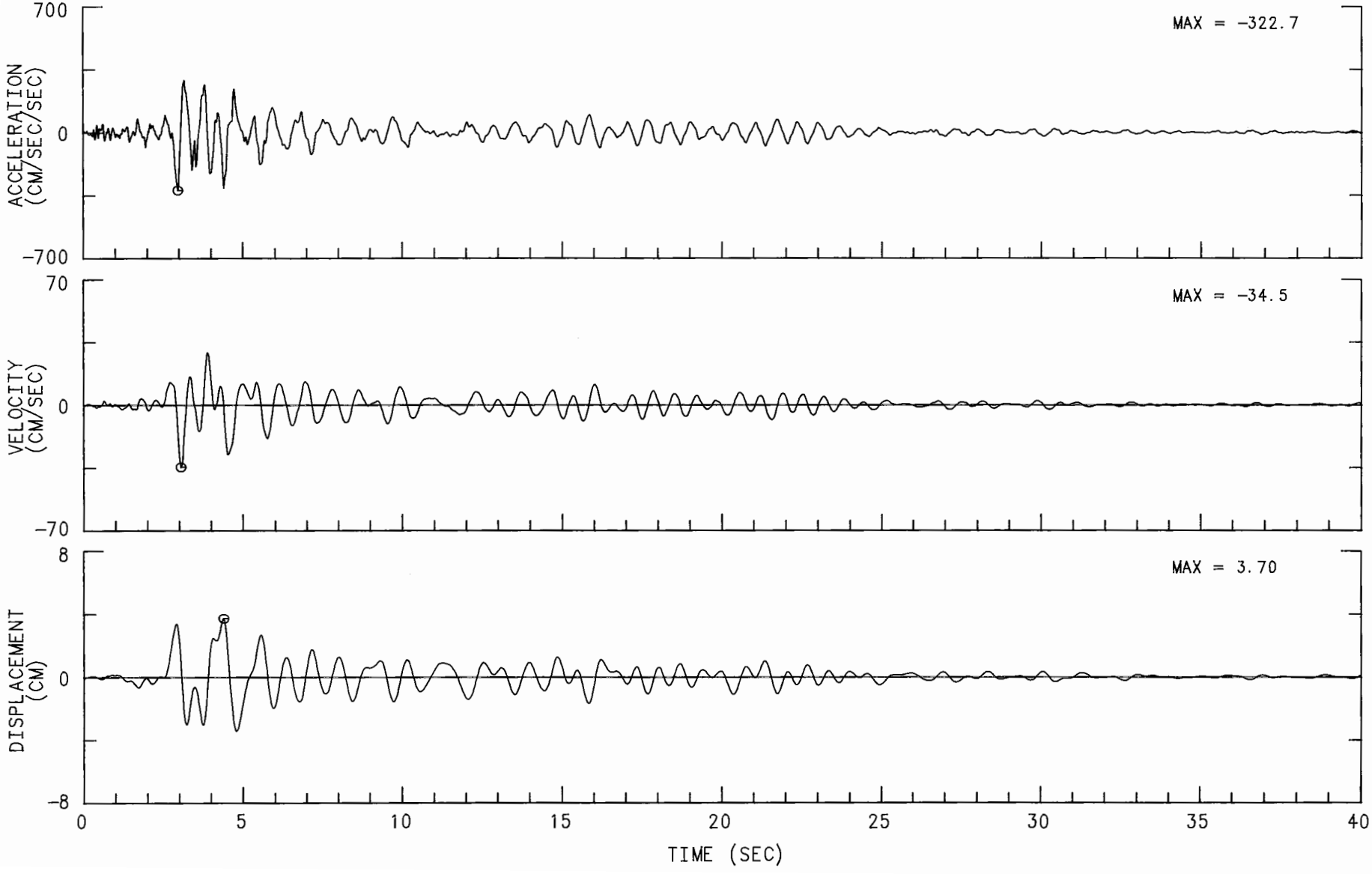
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 2: 270 DEG (ROOF, SOUTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



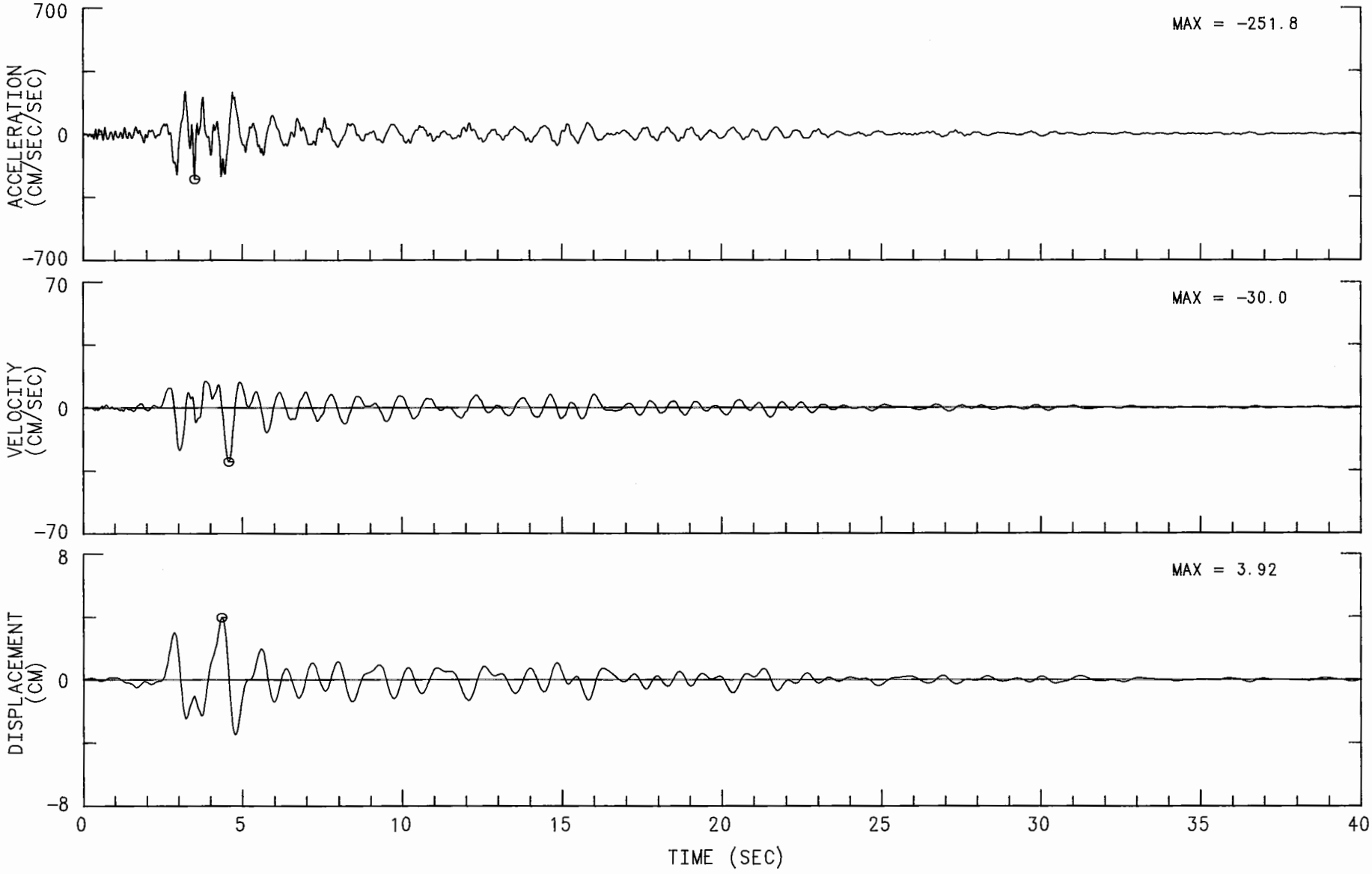
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 3: 270 DEG (ROOF, CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



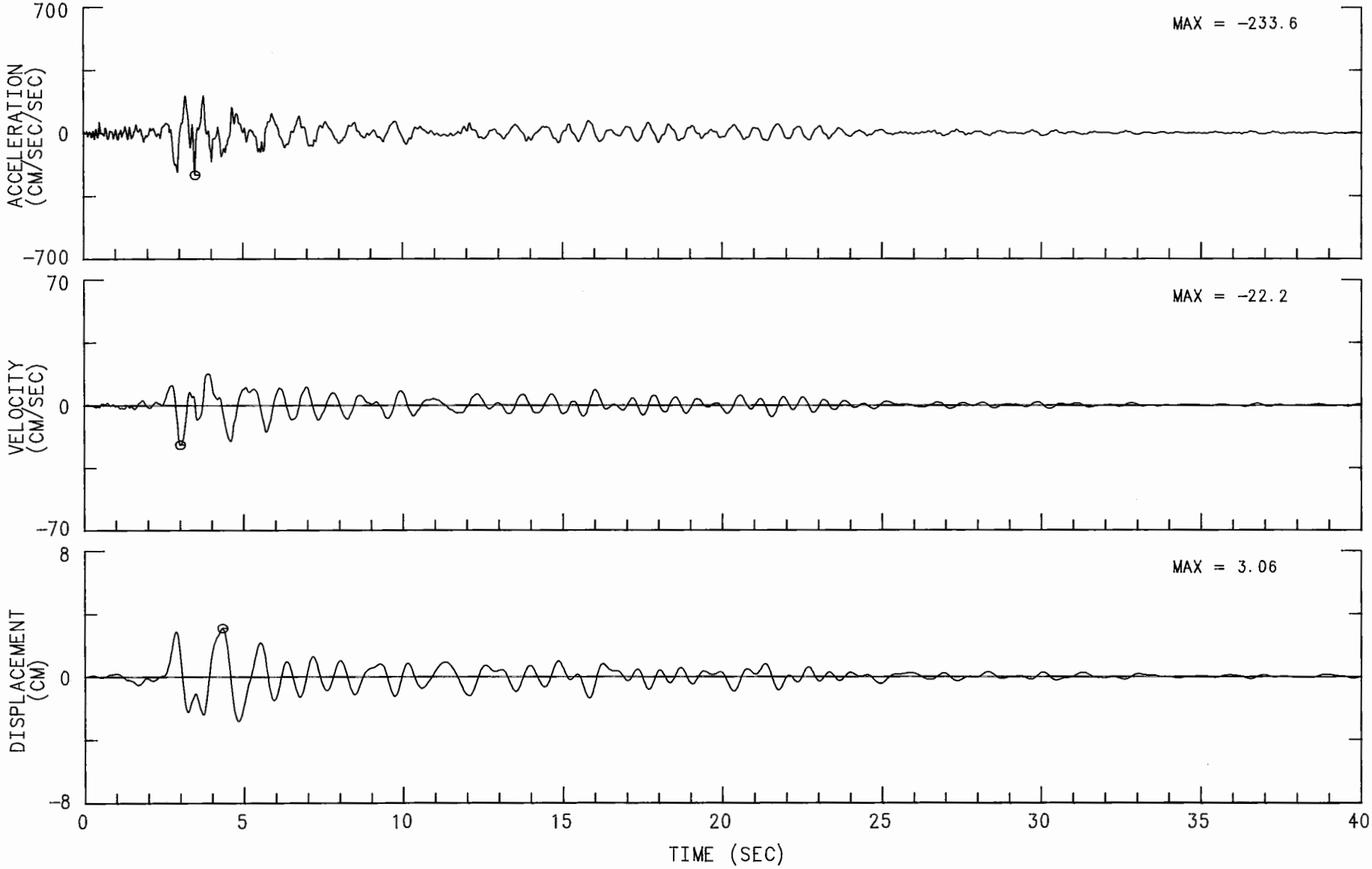
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 4: 270 DEG (ROOF, NORTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



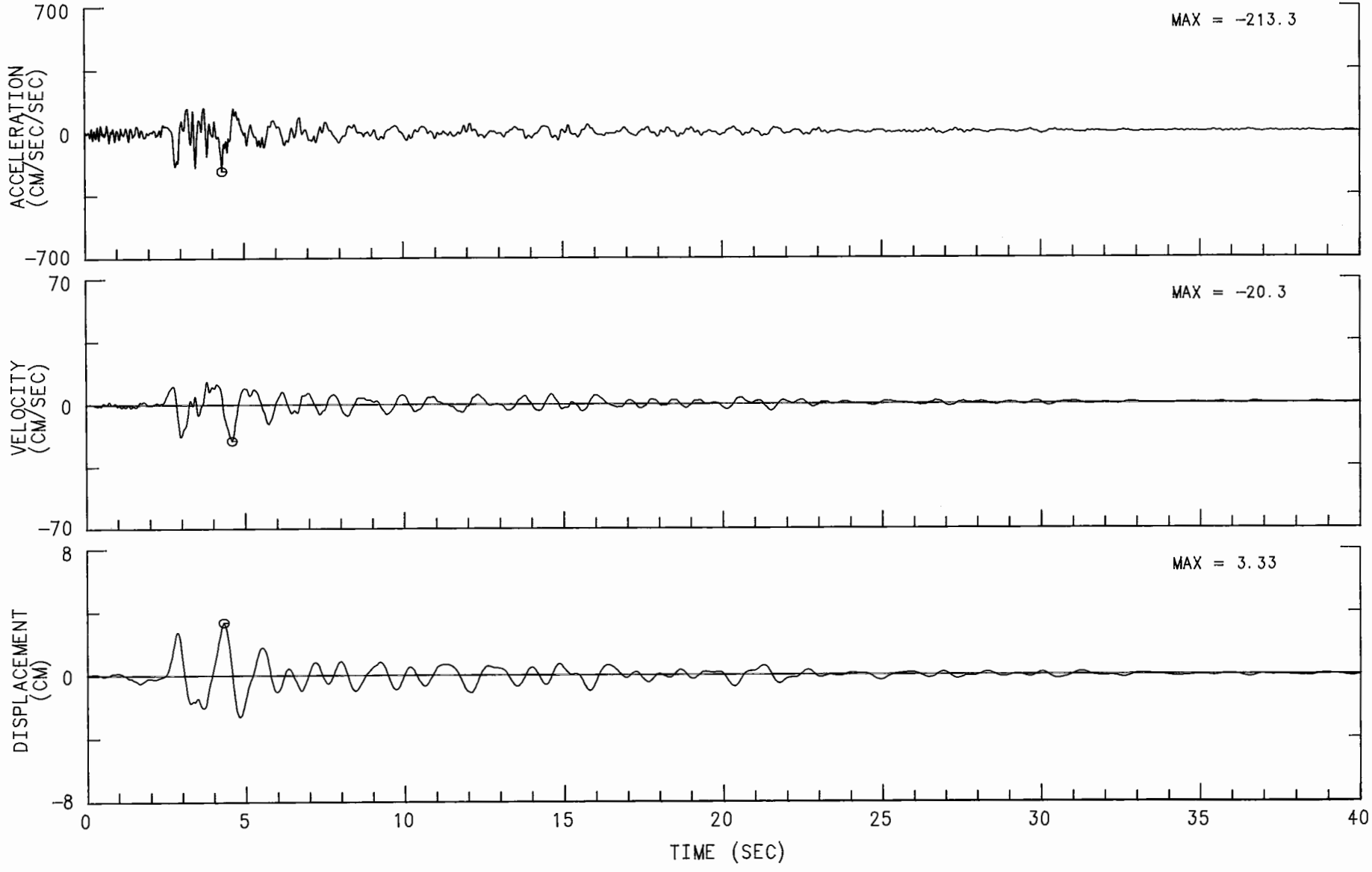
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 5: 270 DEG (3RD FLOOR, CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



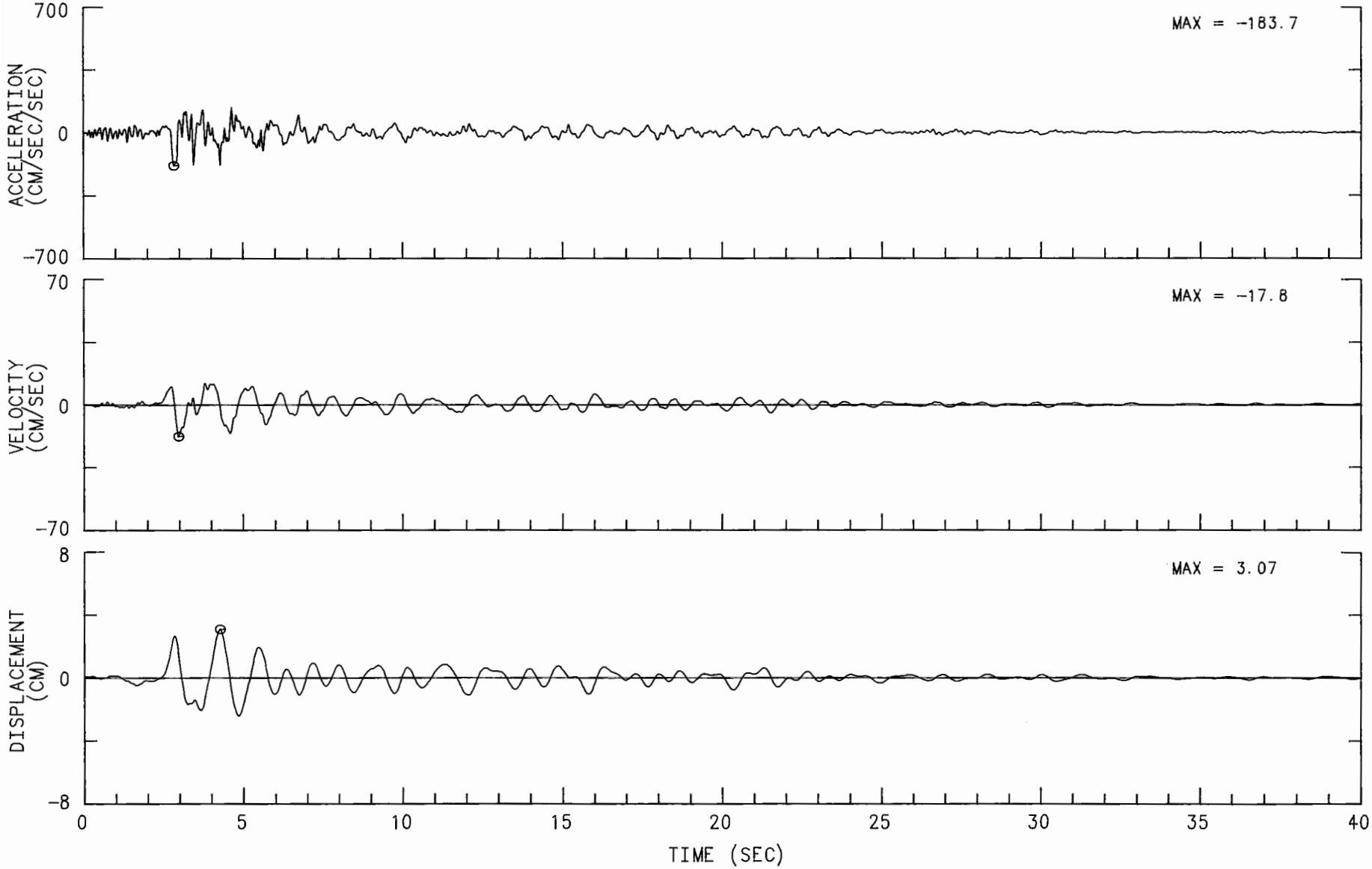
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 6: 270 DEG (3RD FLOOR, NORTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



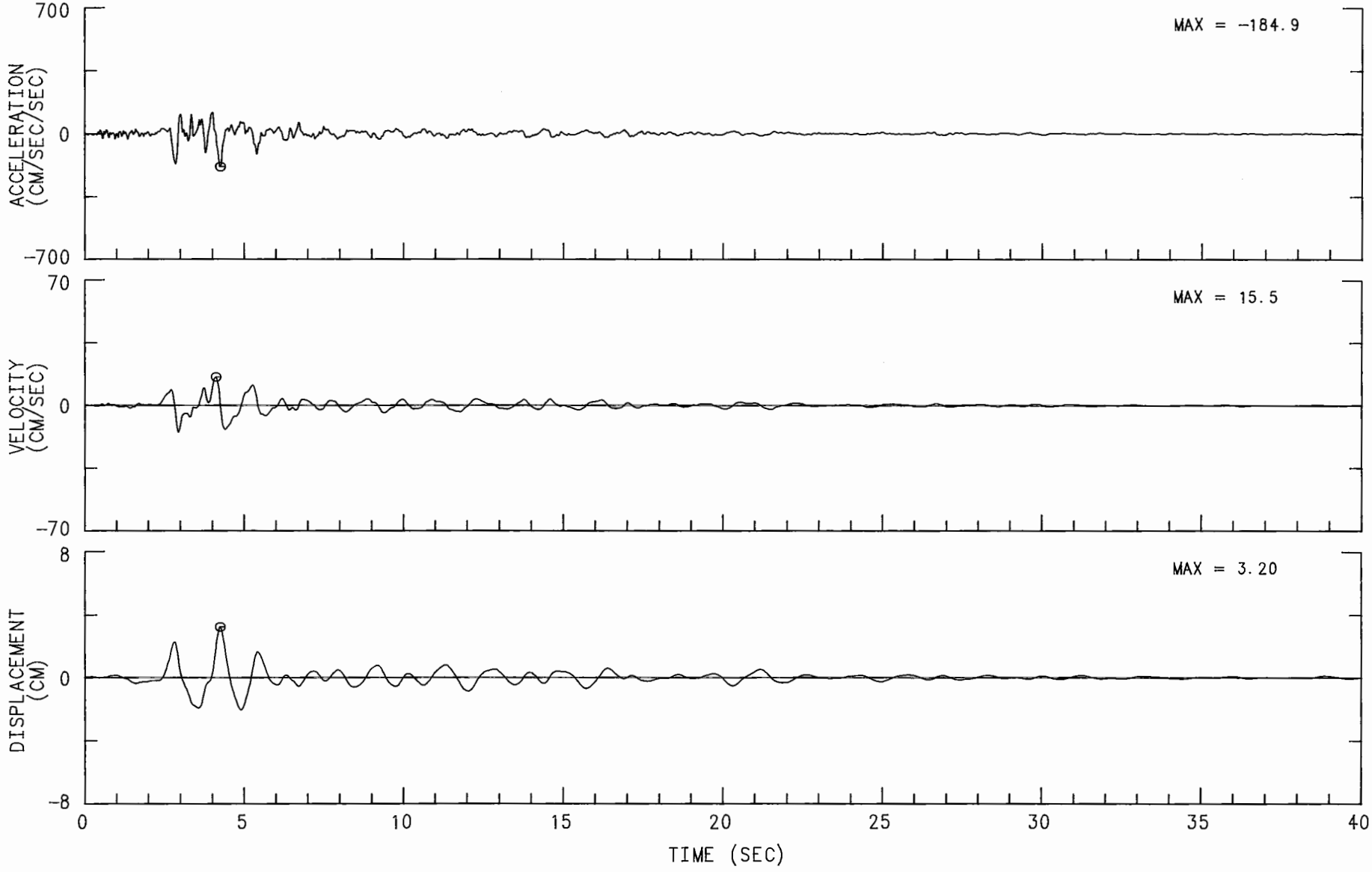
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 7: 270 DEG (2ND FLOOR, CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



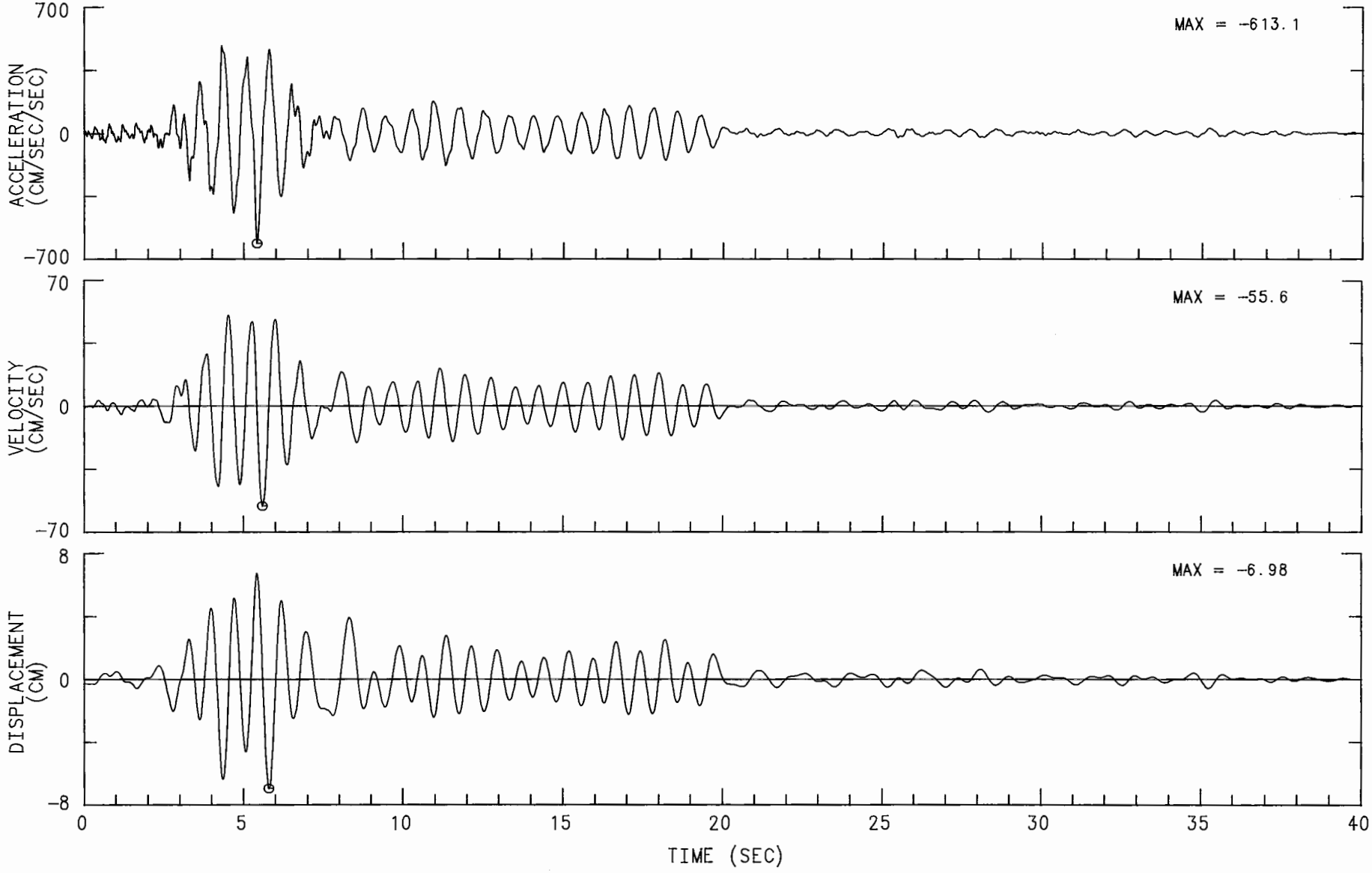
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS – DESERT HOSPITAL CHN 8: 270 DEG (2ND FLOOR, NORTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



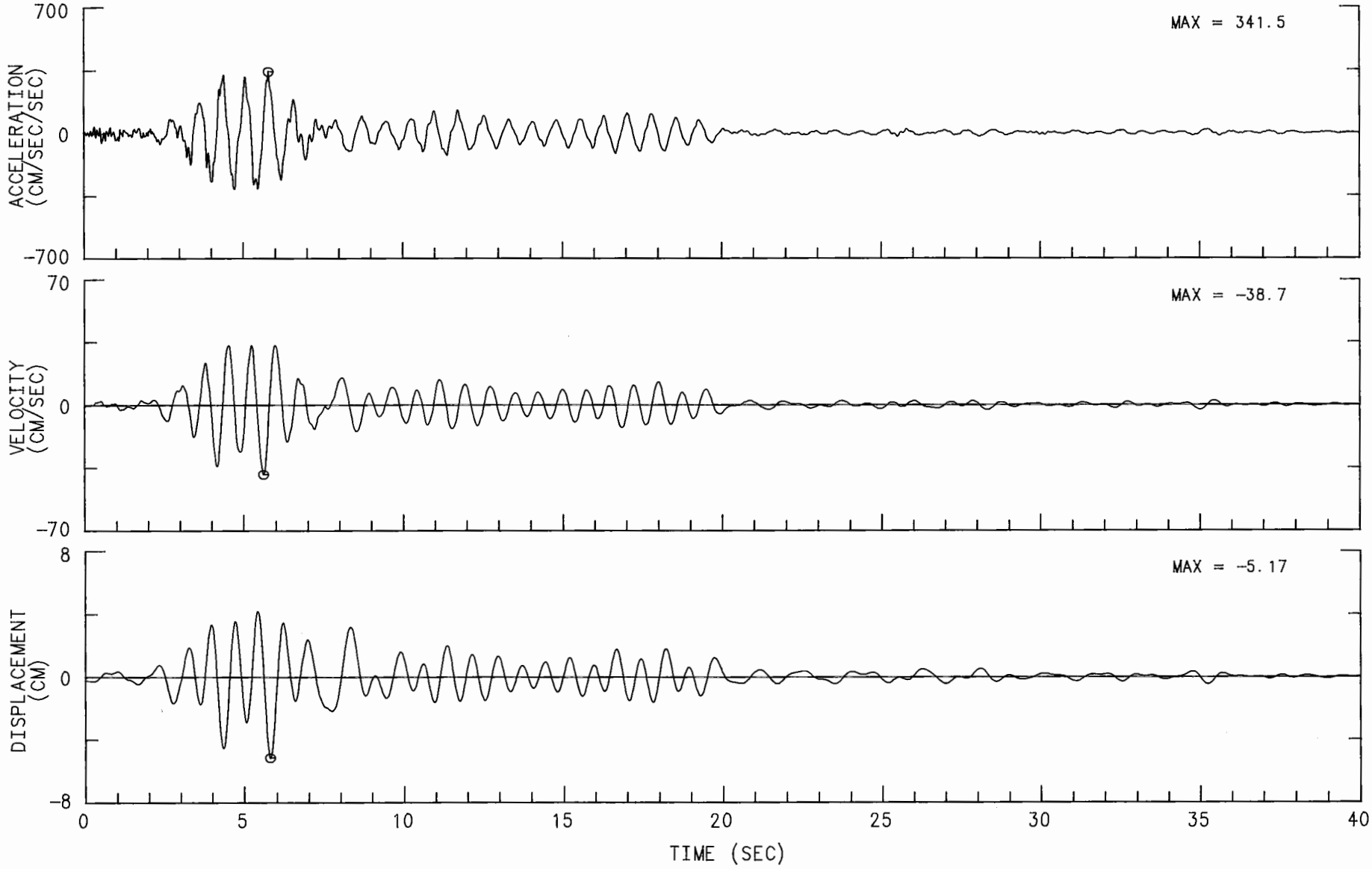
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 9: 270 DEG (BASEMENT)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



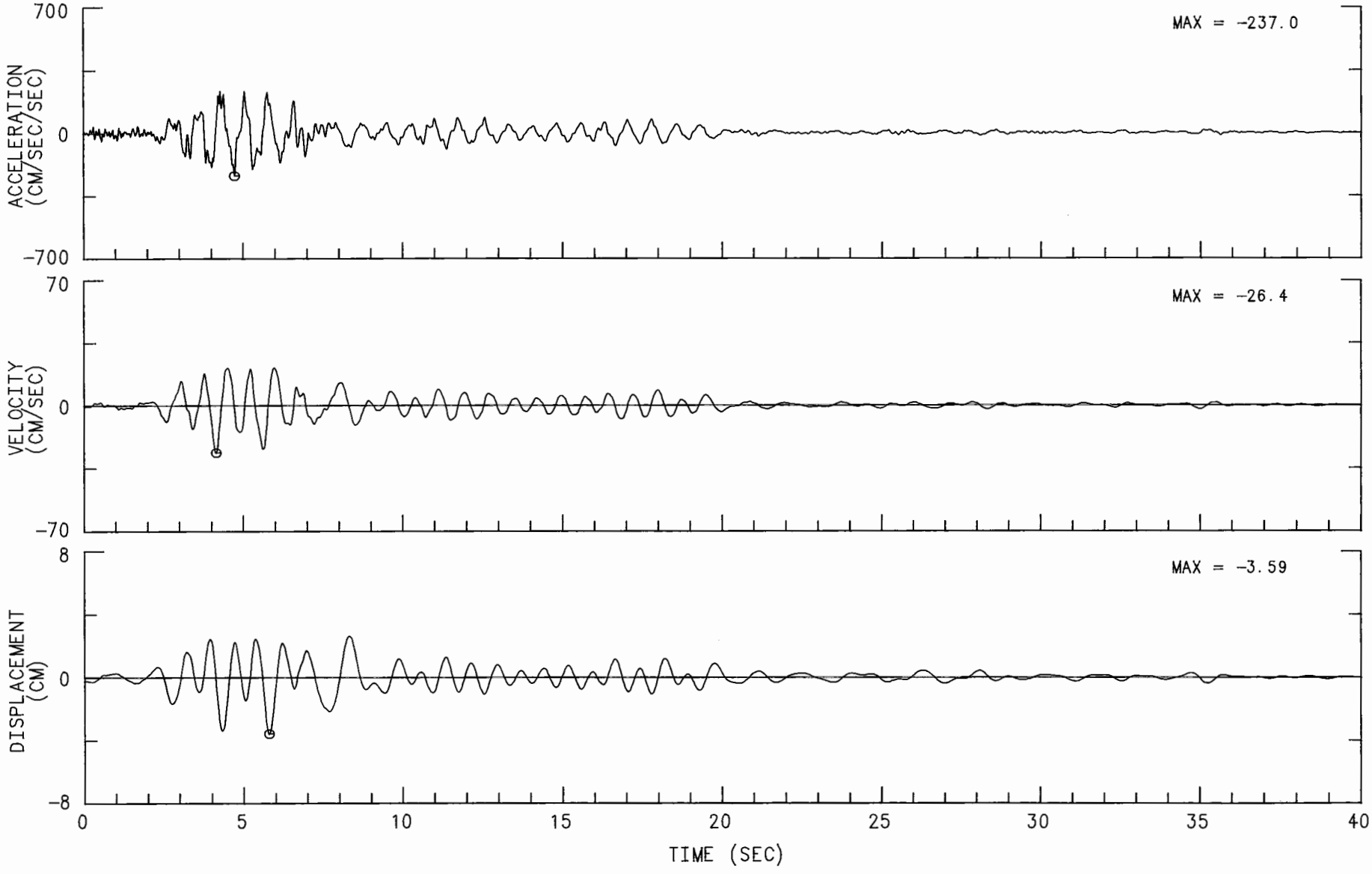
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 10: 0 DEG (ROOF)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



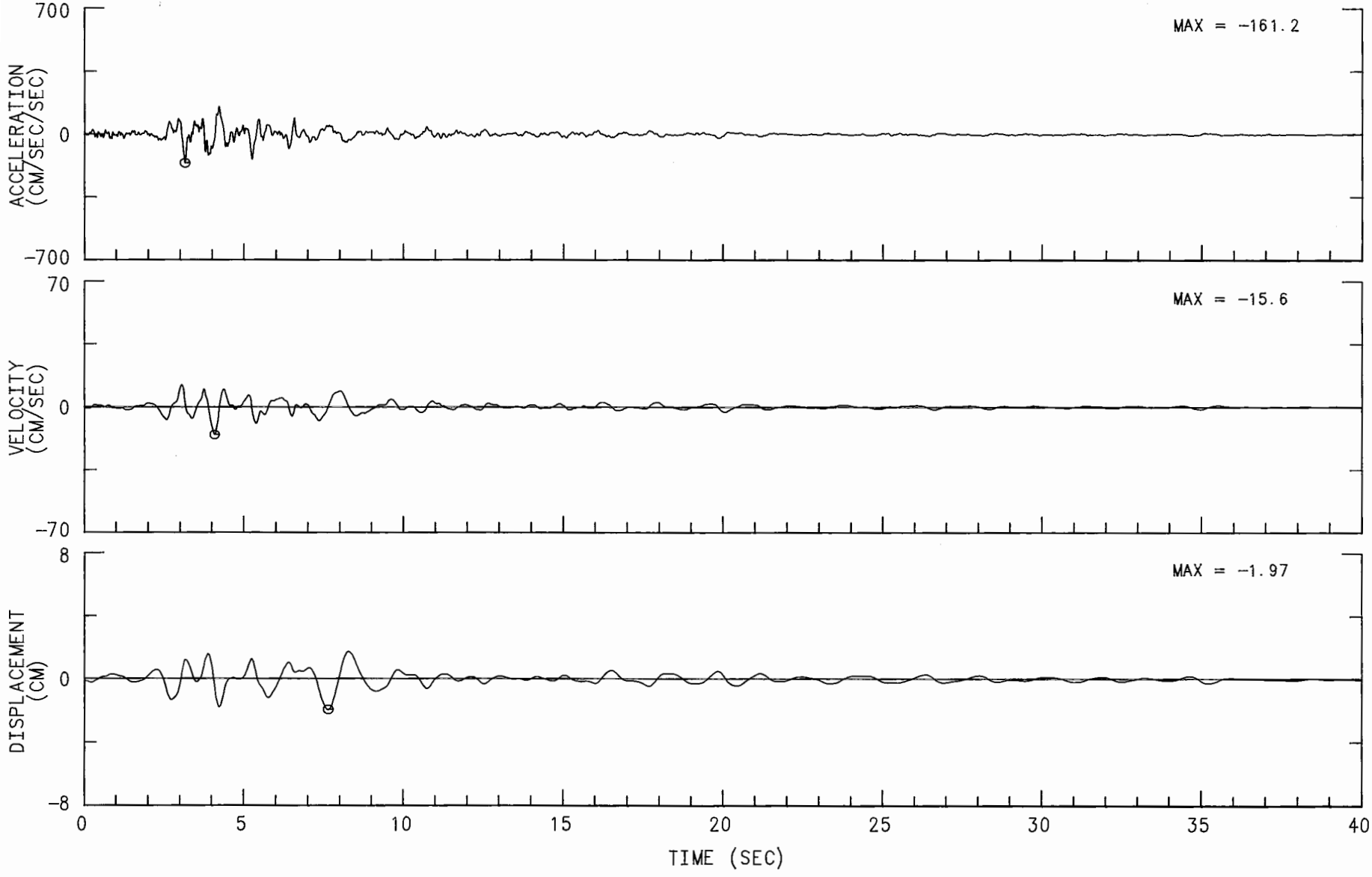
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 11: 0 DEG (3RD FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



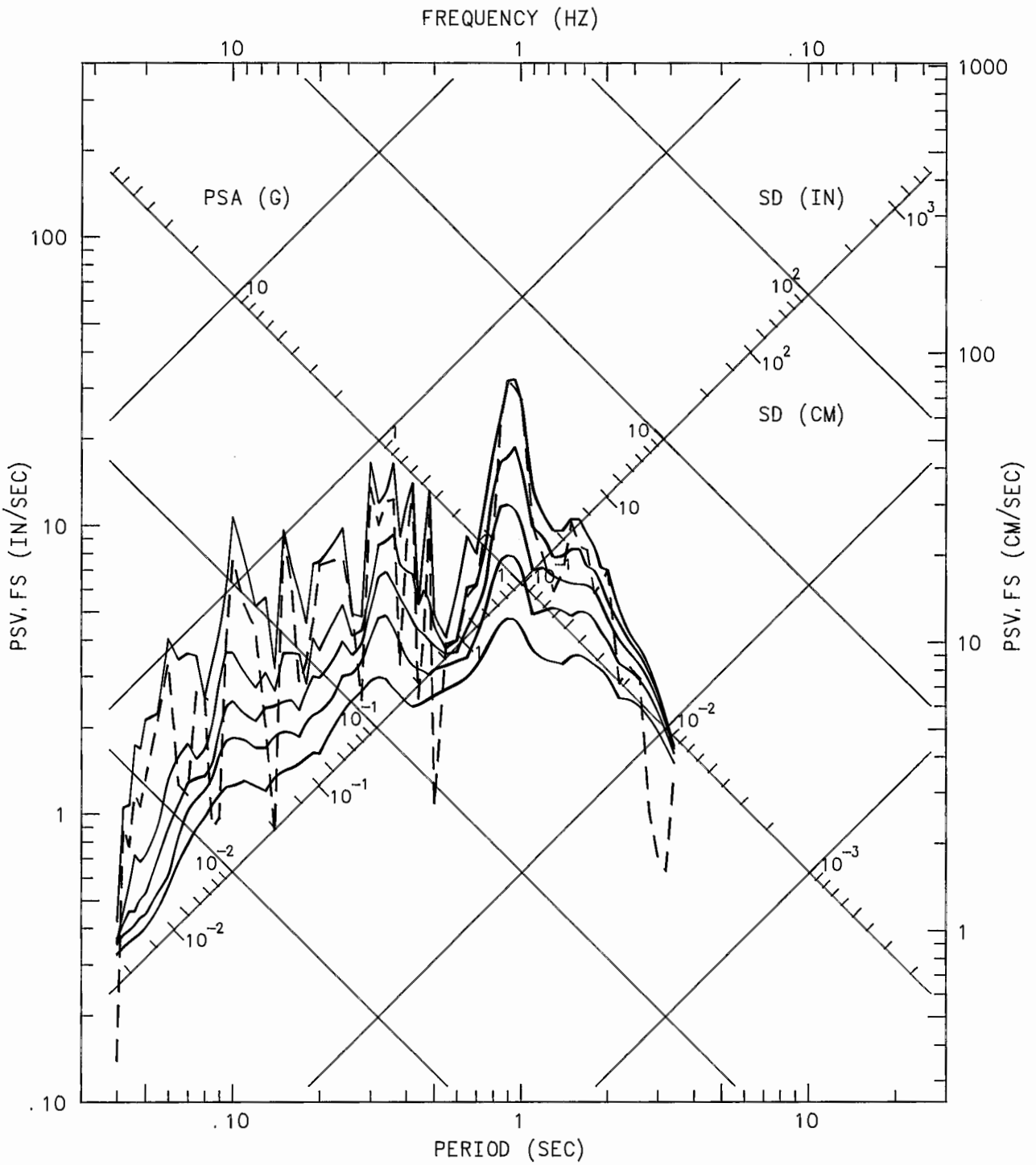
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 12: 0 DEG (2ND FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



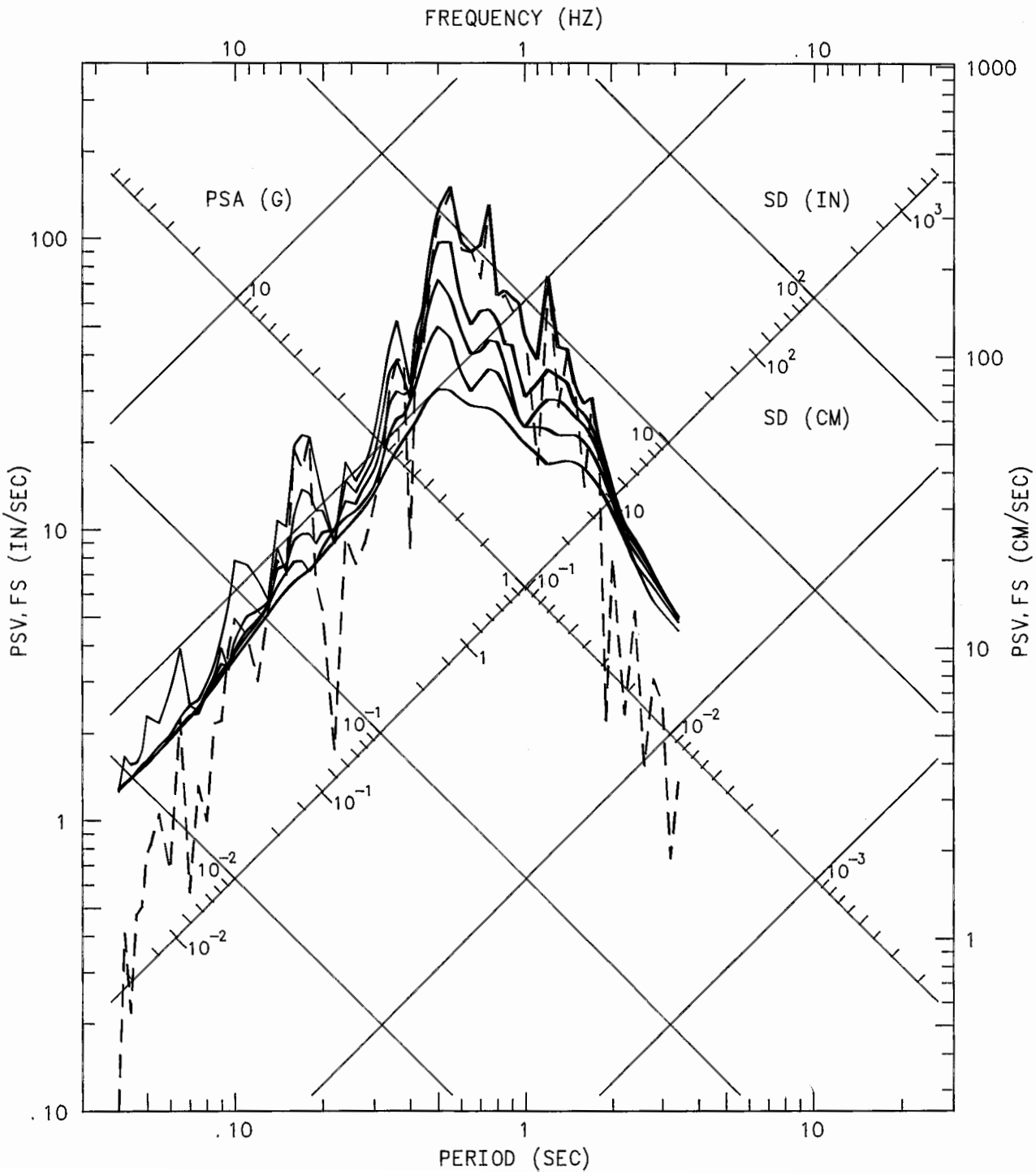
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL CHN 13: 0 DEG (BASEMENT)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .20-.40 TO 23.0-25.0 HZ. 12299-C0192-86189.01 090788.1906-QP86A299



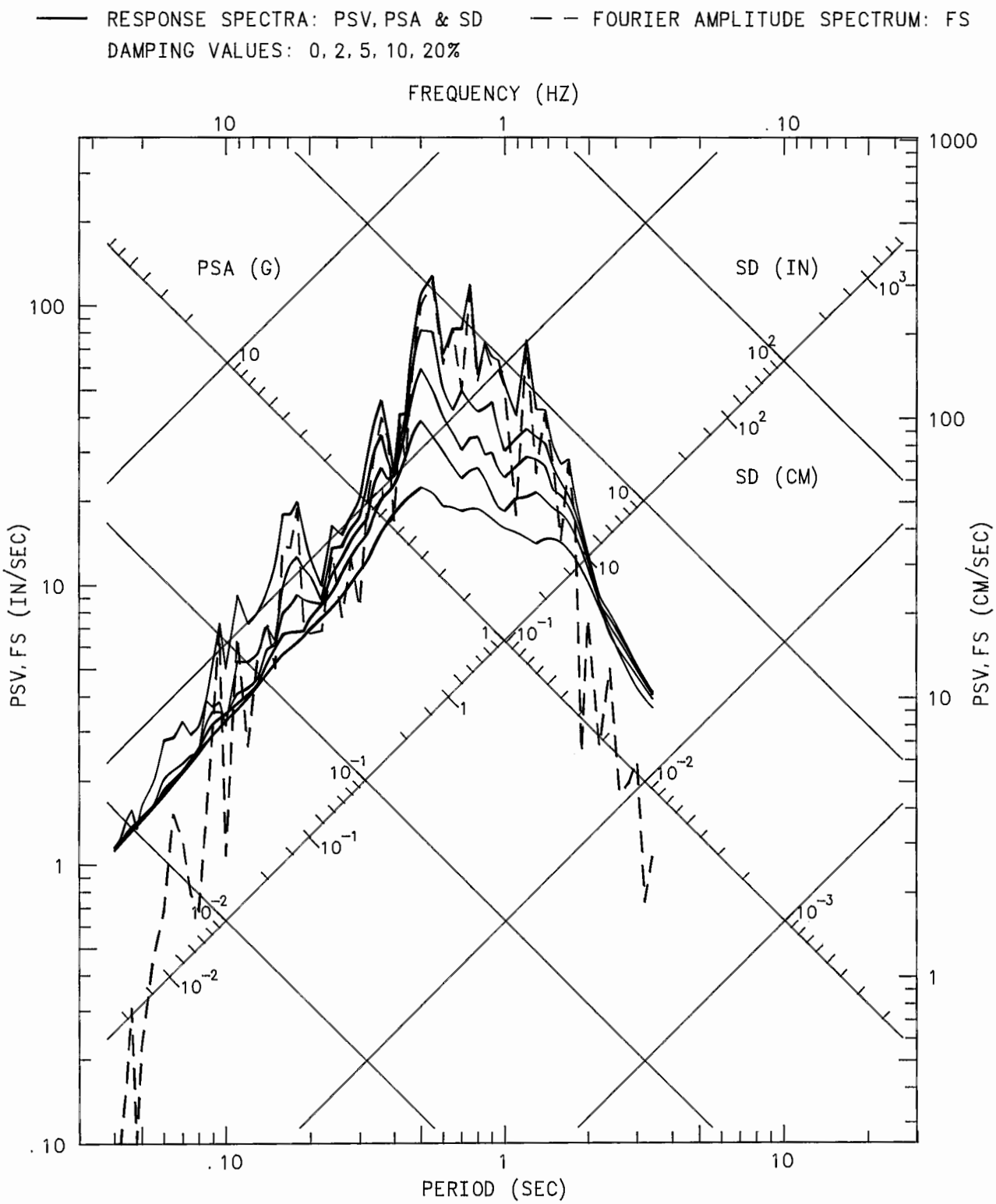
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 1: UP (BASEMENT)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



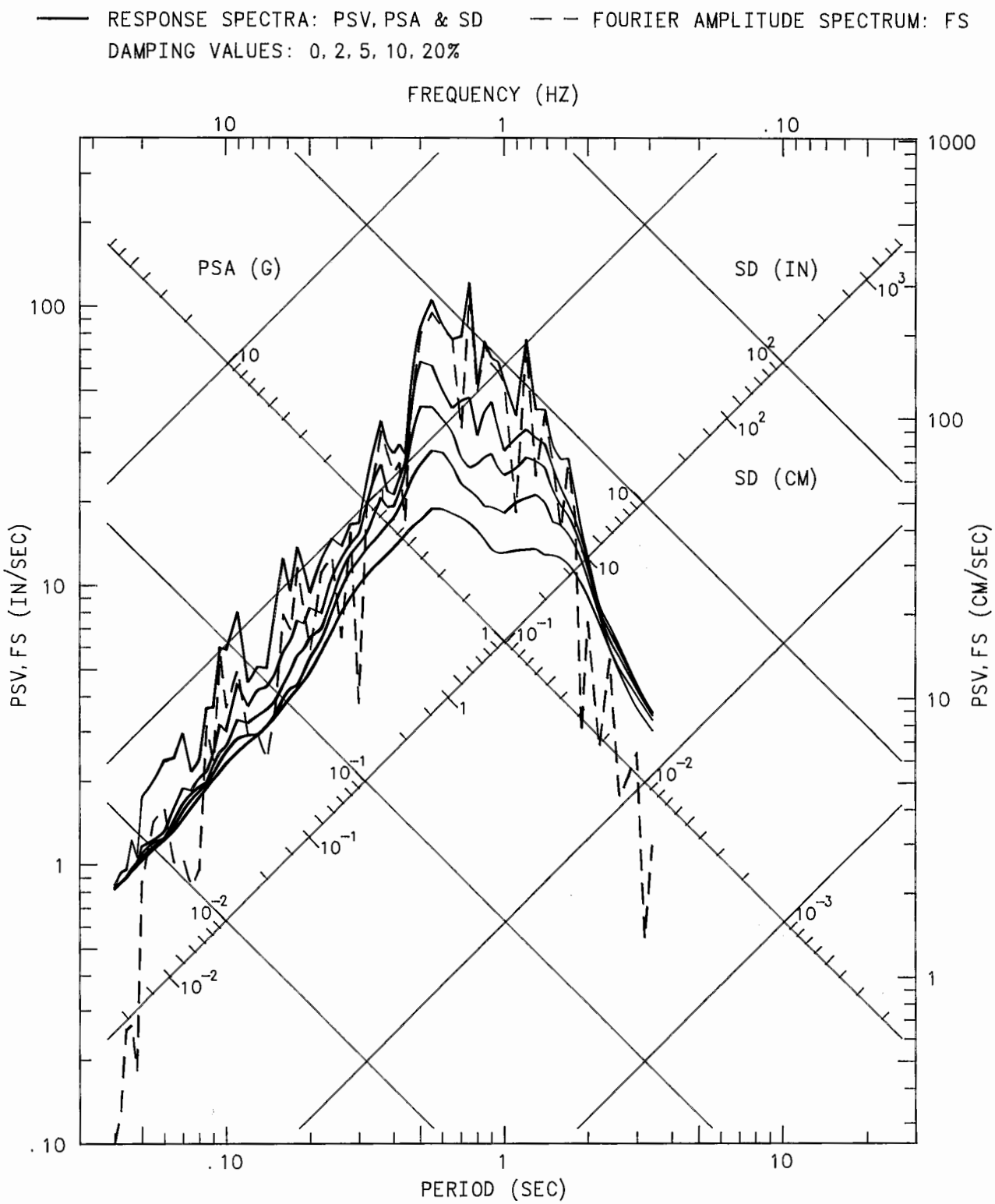
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 2: 270 DEG (ROOF, SOUTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



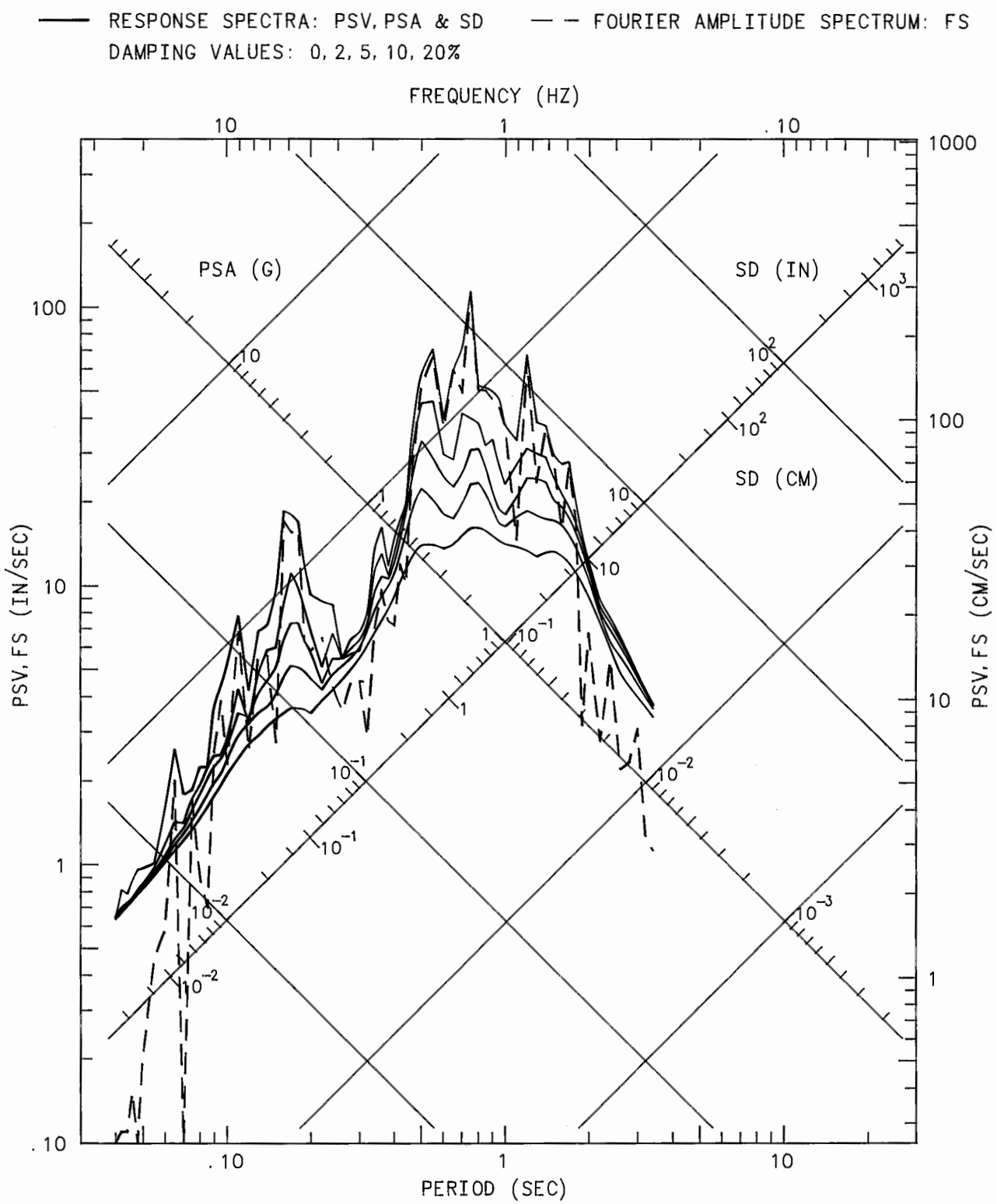
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 3: 270 DEG (ROOF, CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



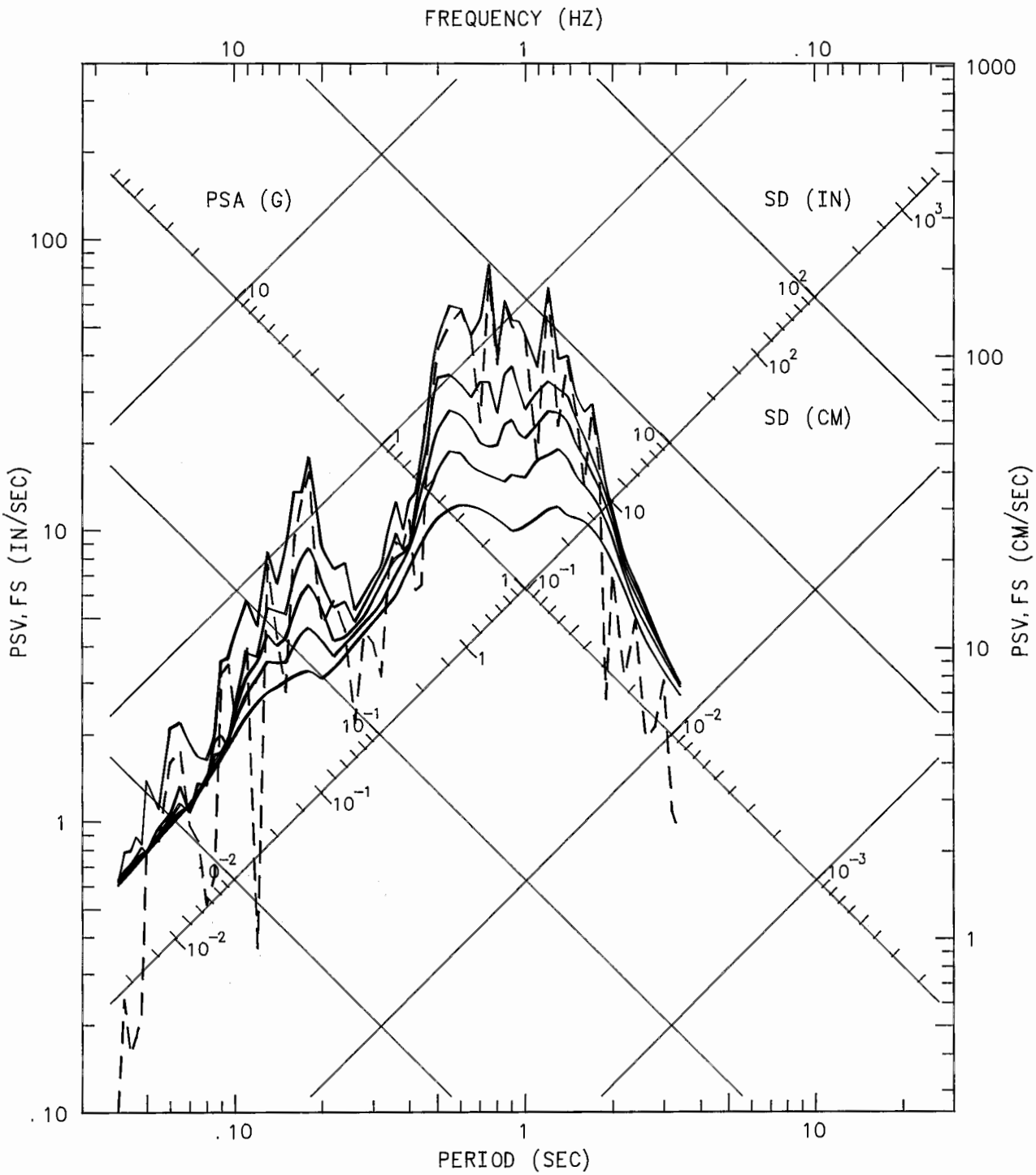
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 4: 270 DEG (ROOF, NORTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



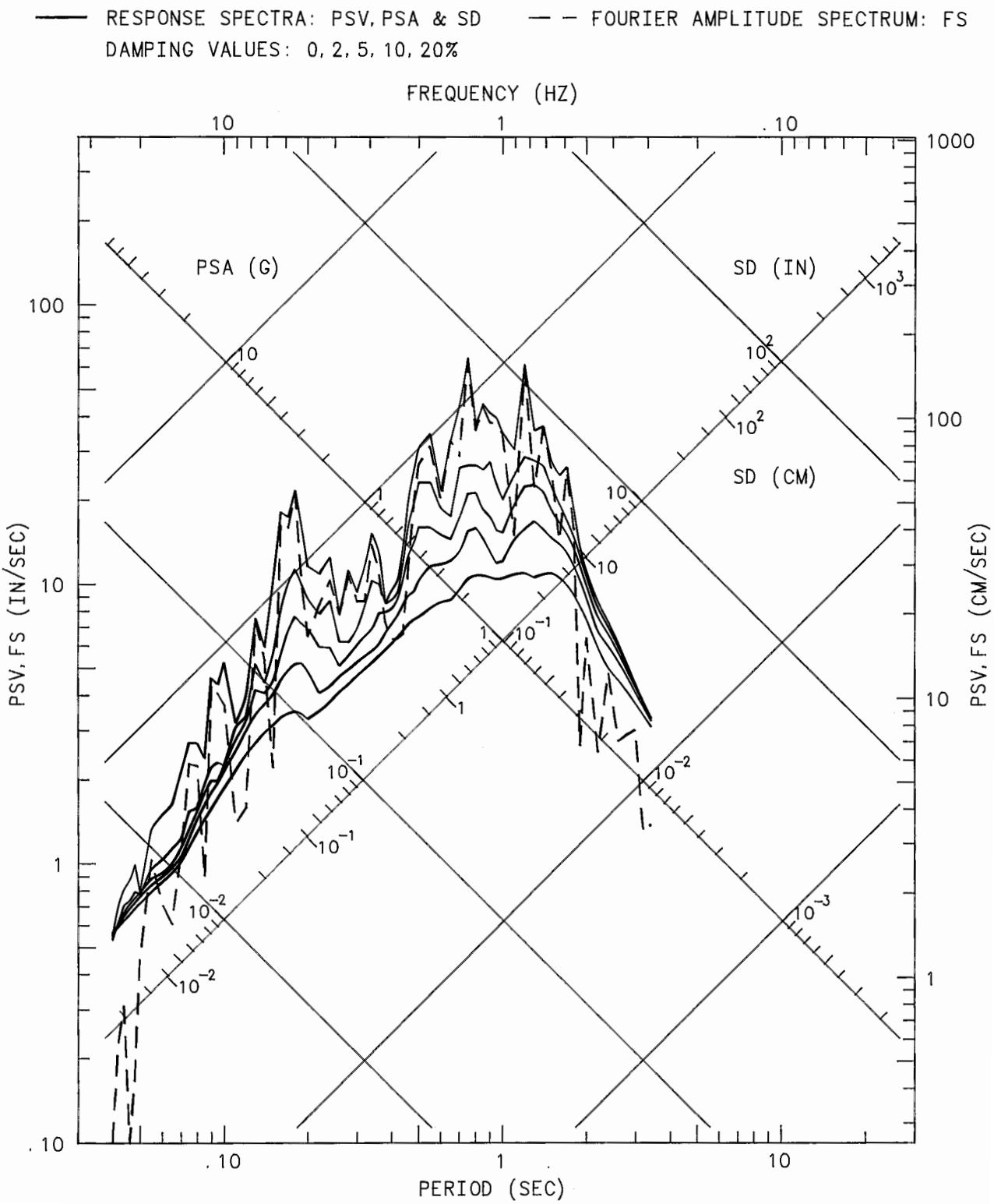
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 5: 270 DEG (3RD FLOOR, CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



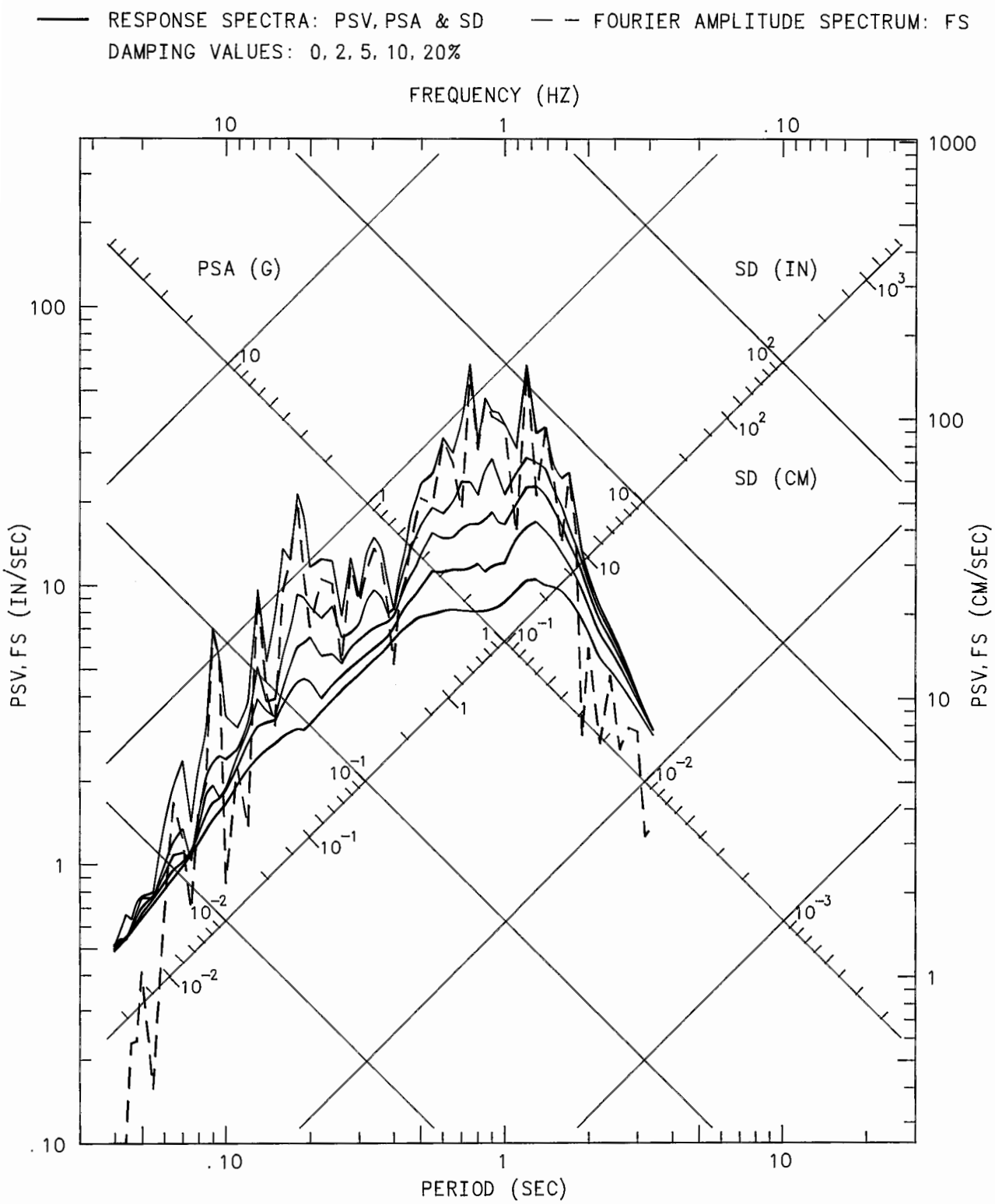
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 6: 270 DEG (3RD FLOOR, NORTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



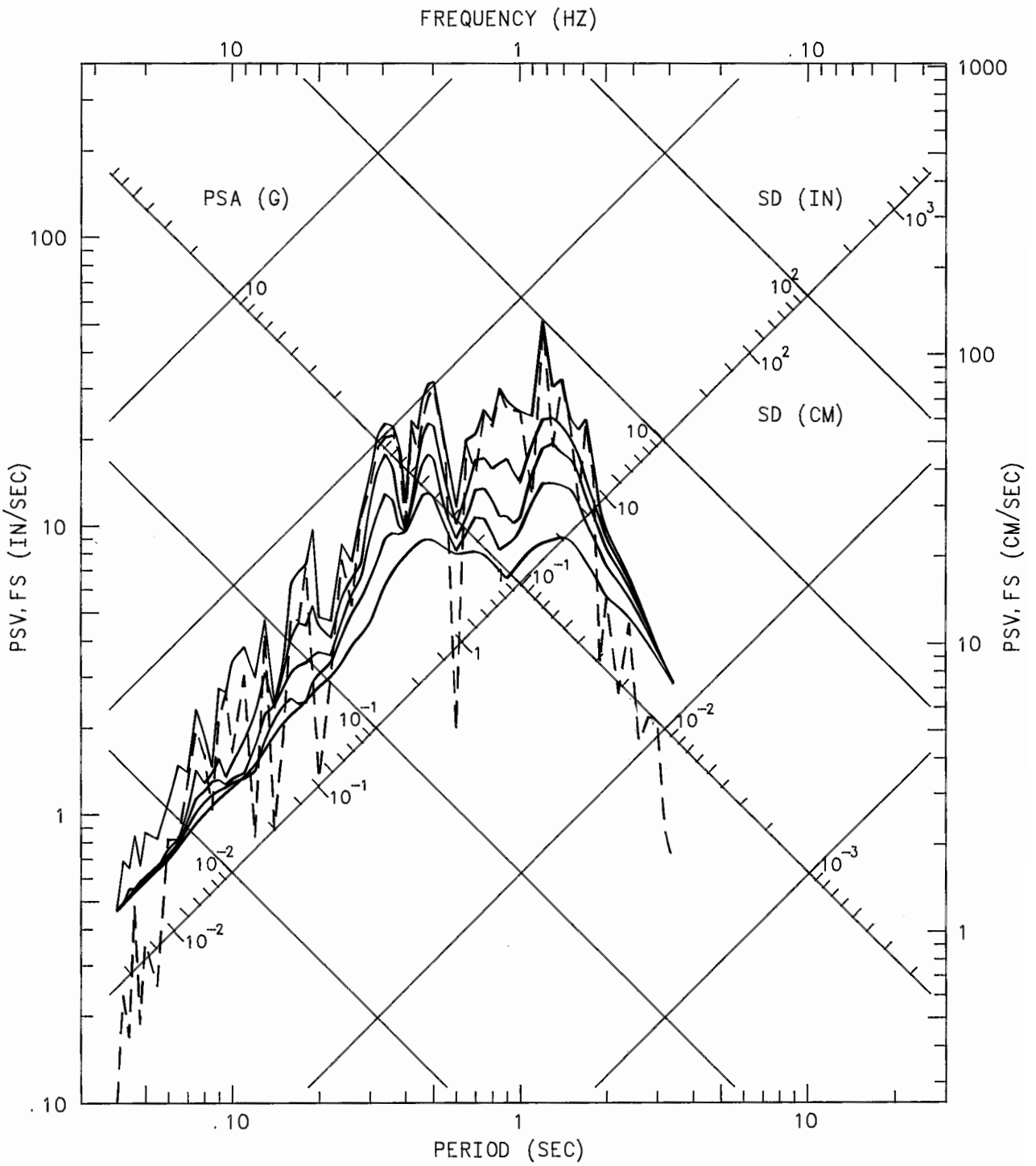
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 7: 270 DEG (2ND FLOOR, CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



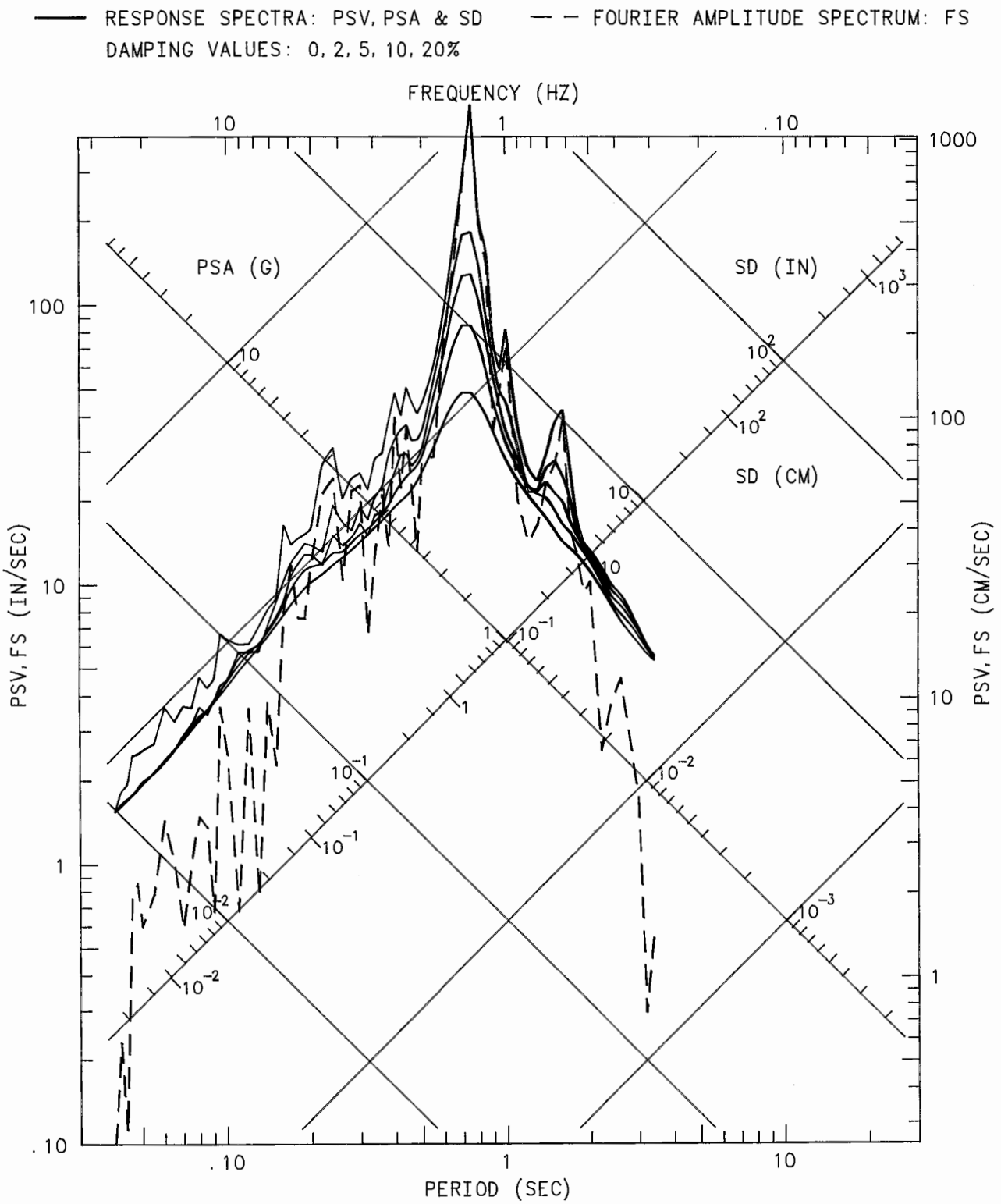
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 8: 270 DEG (2ND FLOOR, NORTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



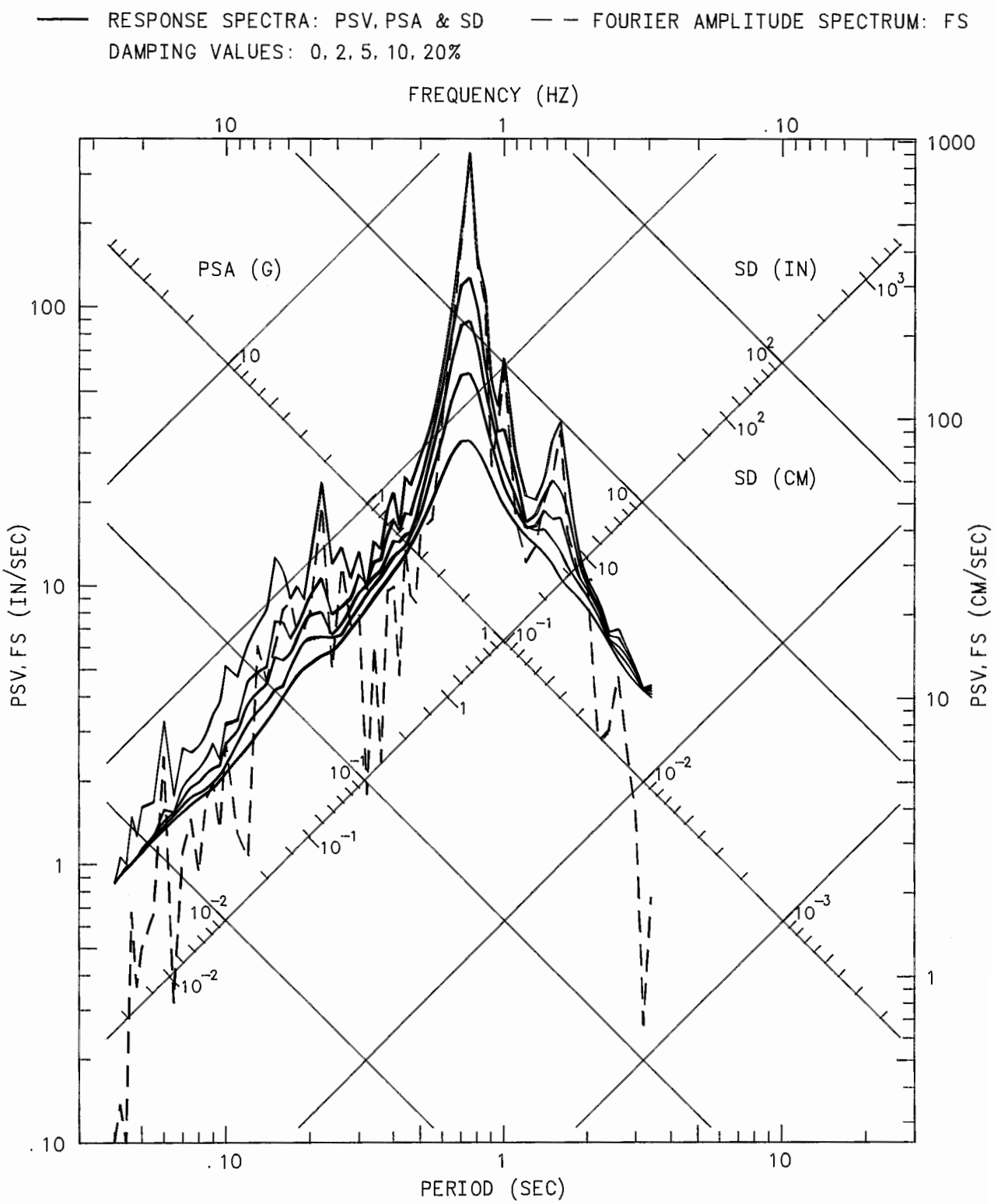
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 9: 270 DEG (BASEMENT)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



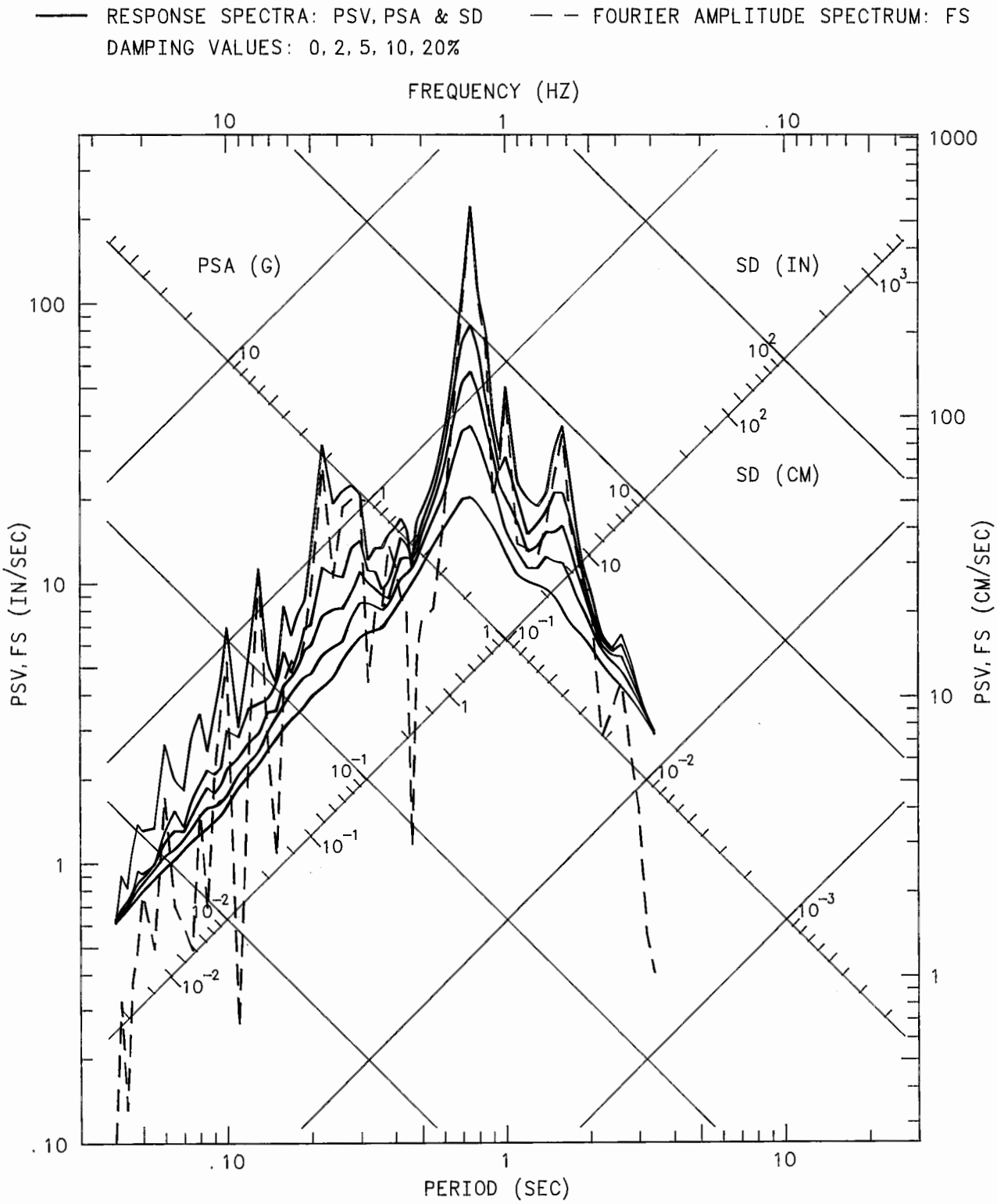
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 10: 0 DEG (ROOF)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



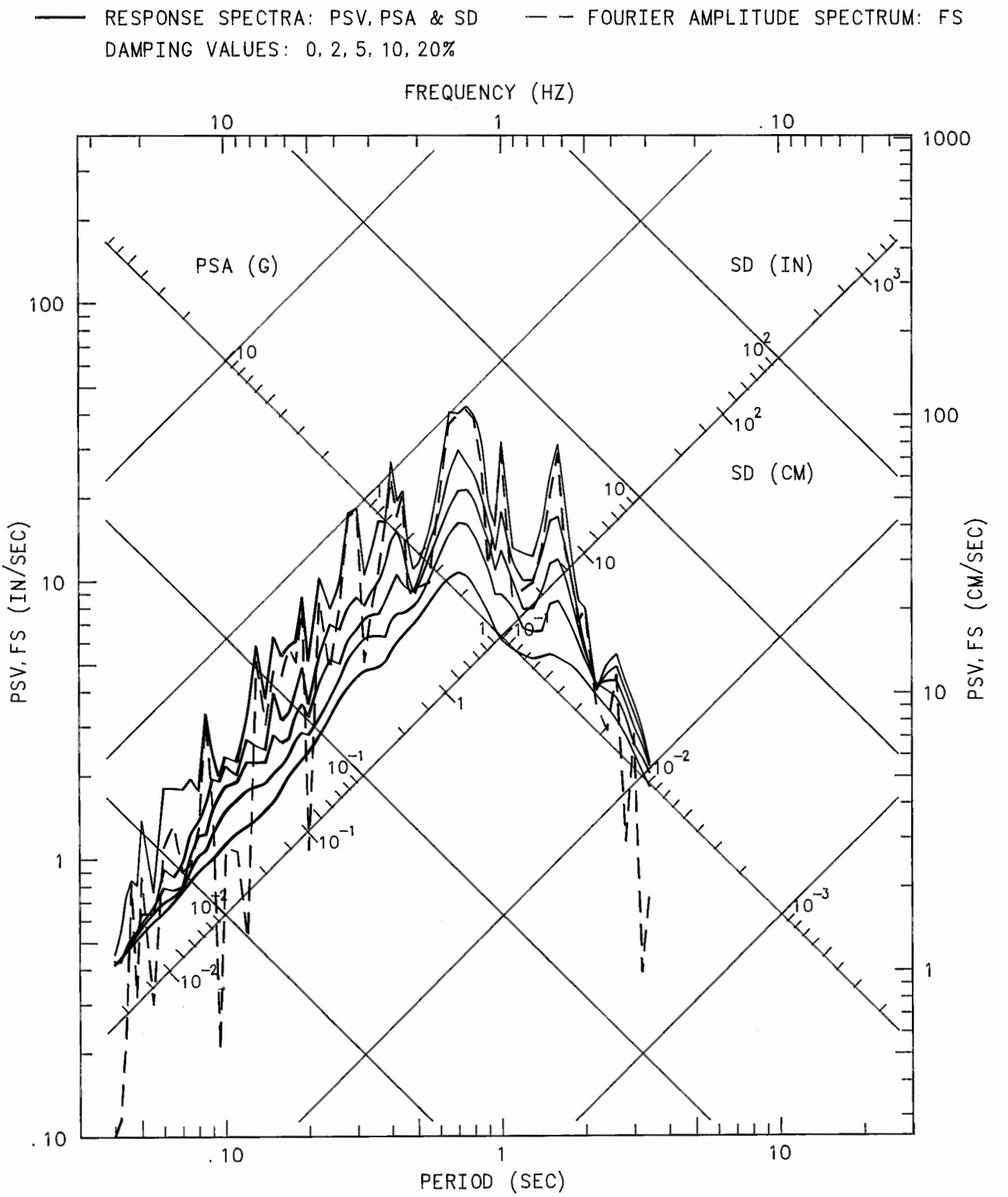
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 11: 0 DEG (3RD FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



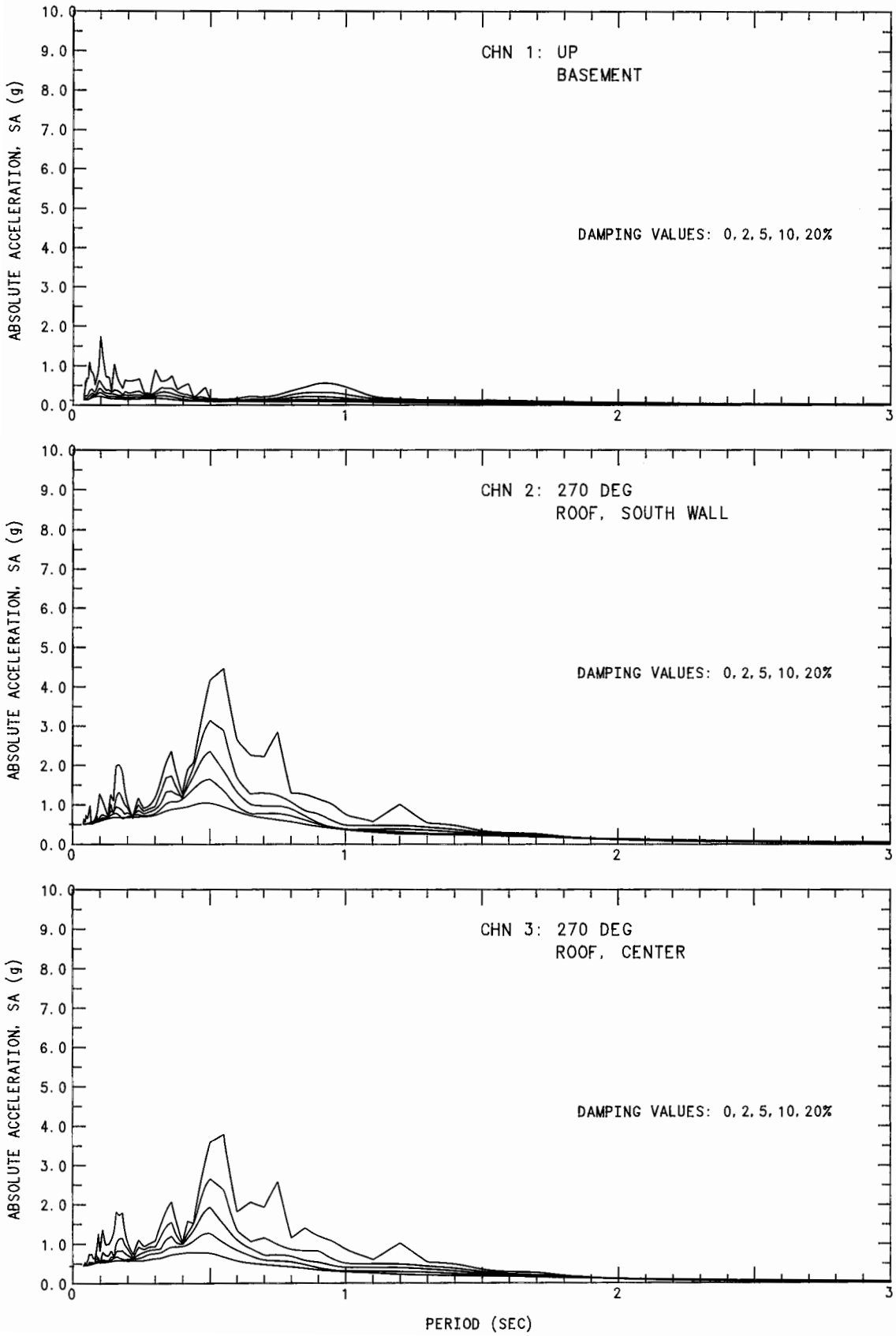
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 12: 0 DEG (2ND FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



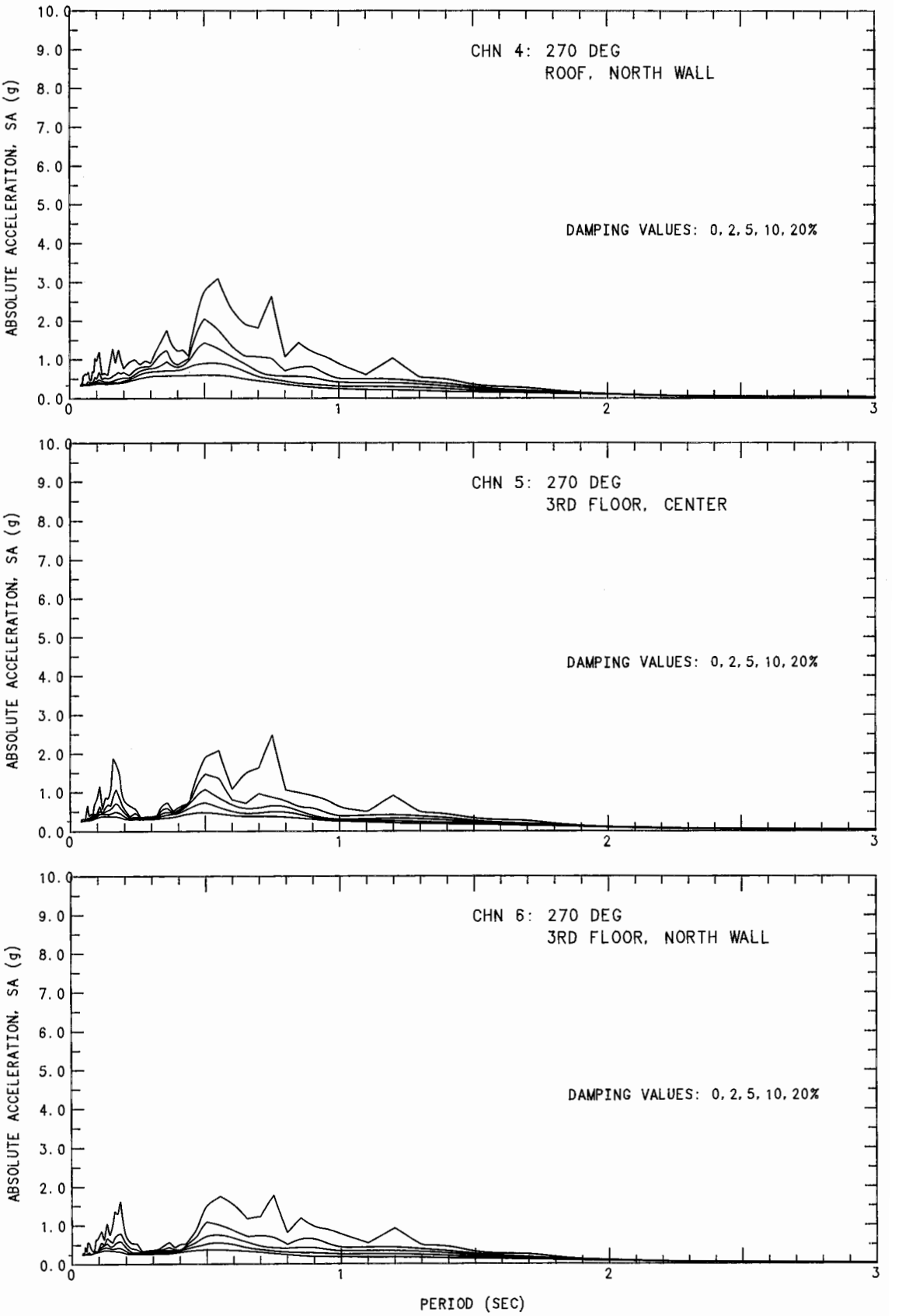
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
CHN 13: 0 DEG (BASEMENT)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090988.1636-QP86A299



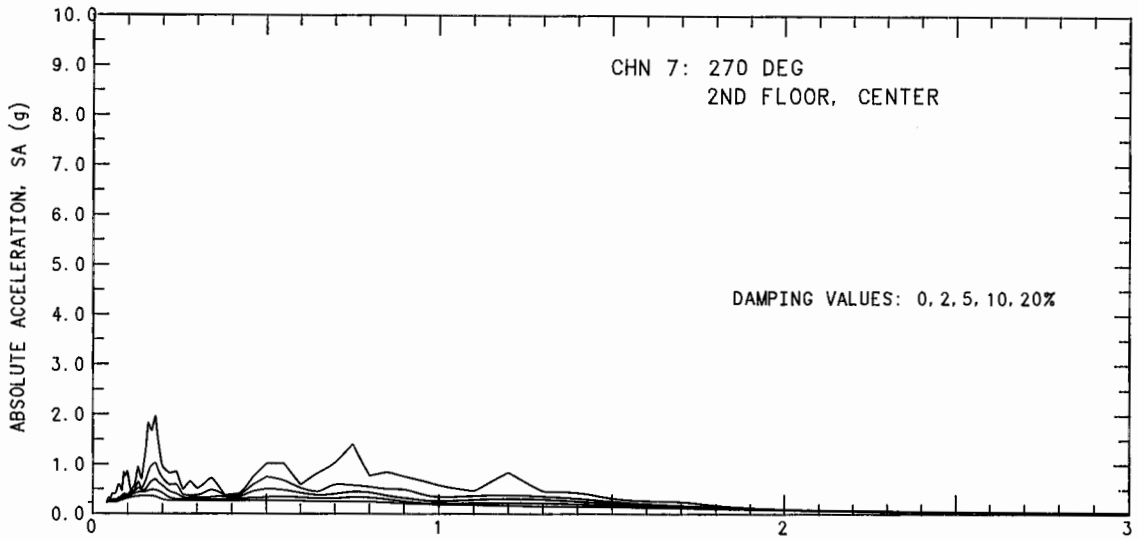
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090888.1636-QP86A299

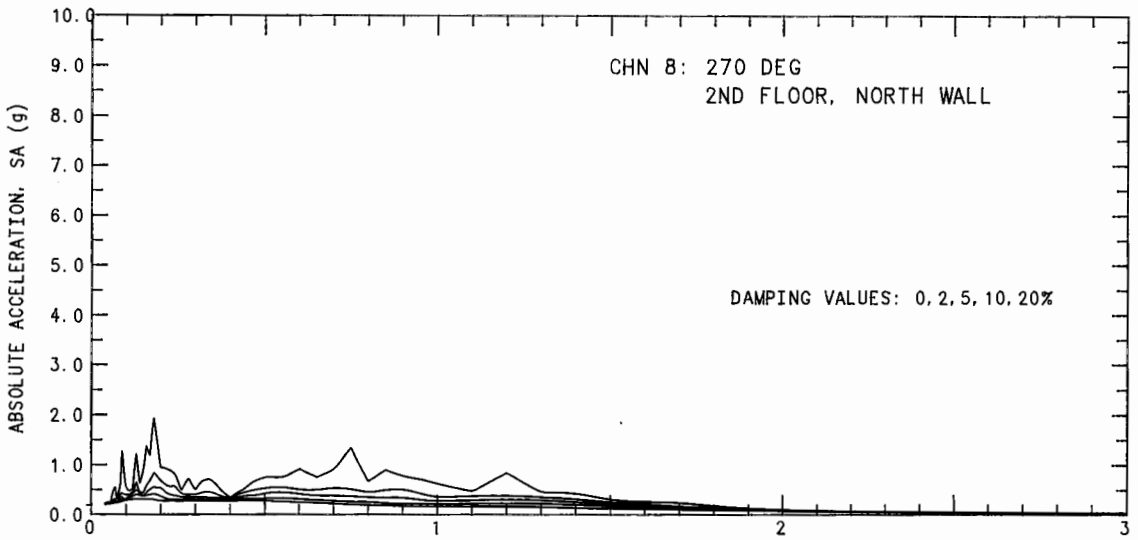


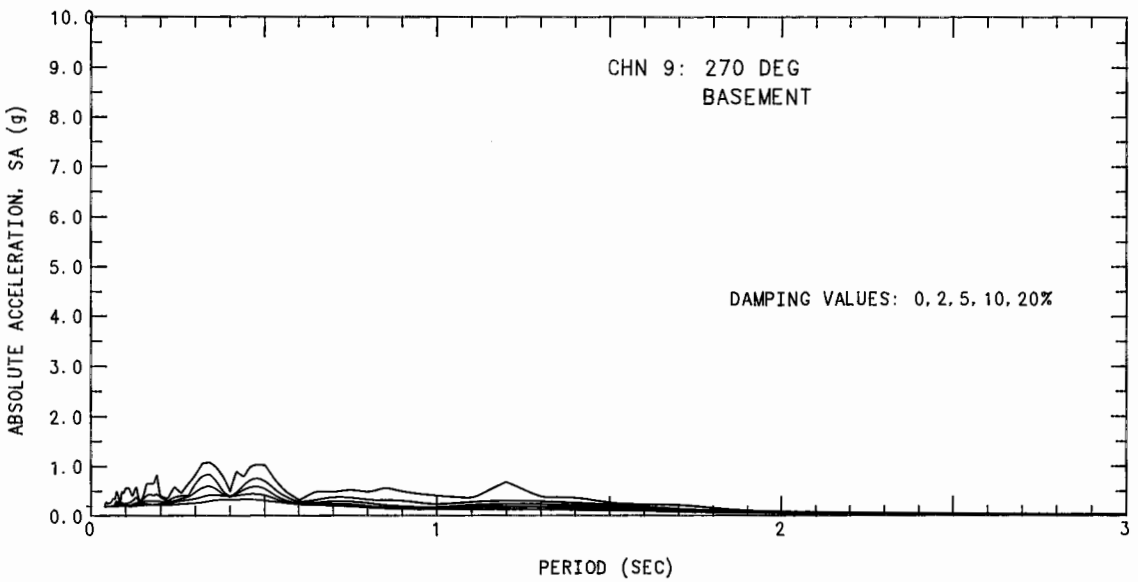
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090888.1636-QP86A299



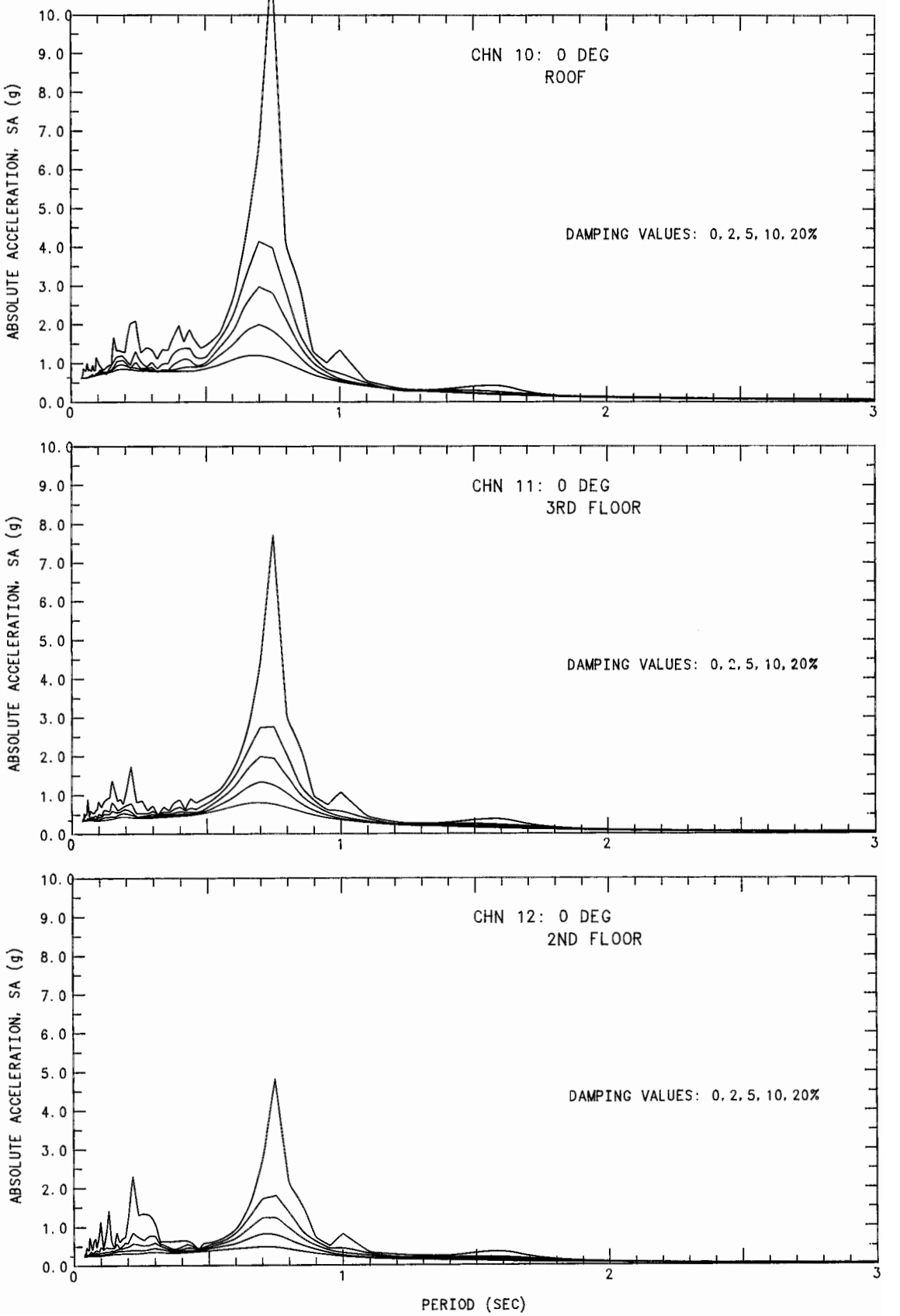
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090888.1636-QP86A299



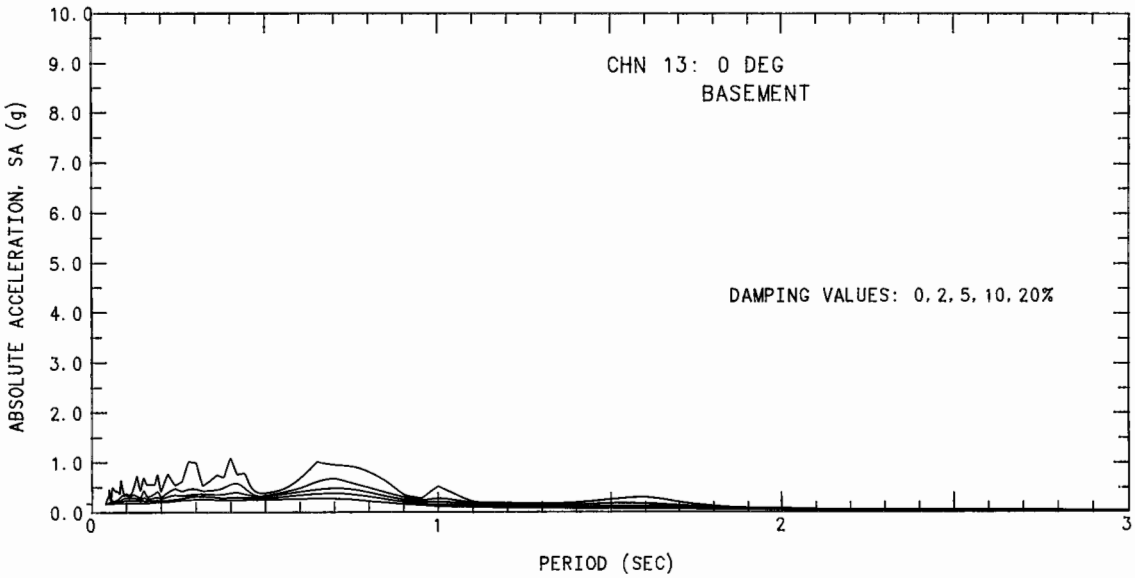




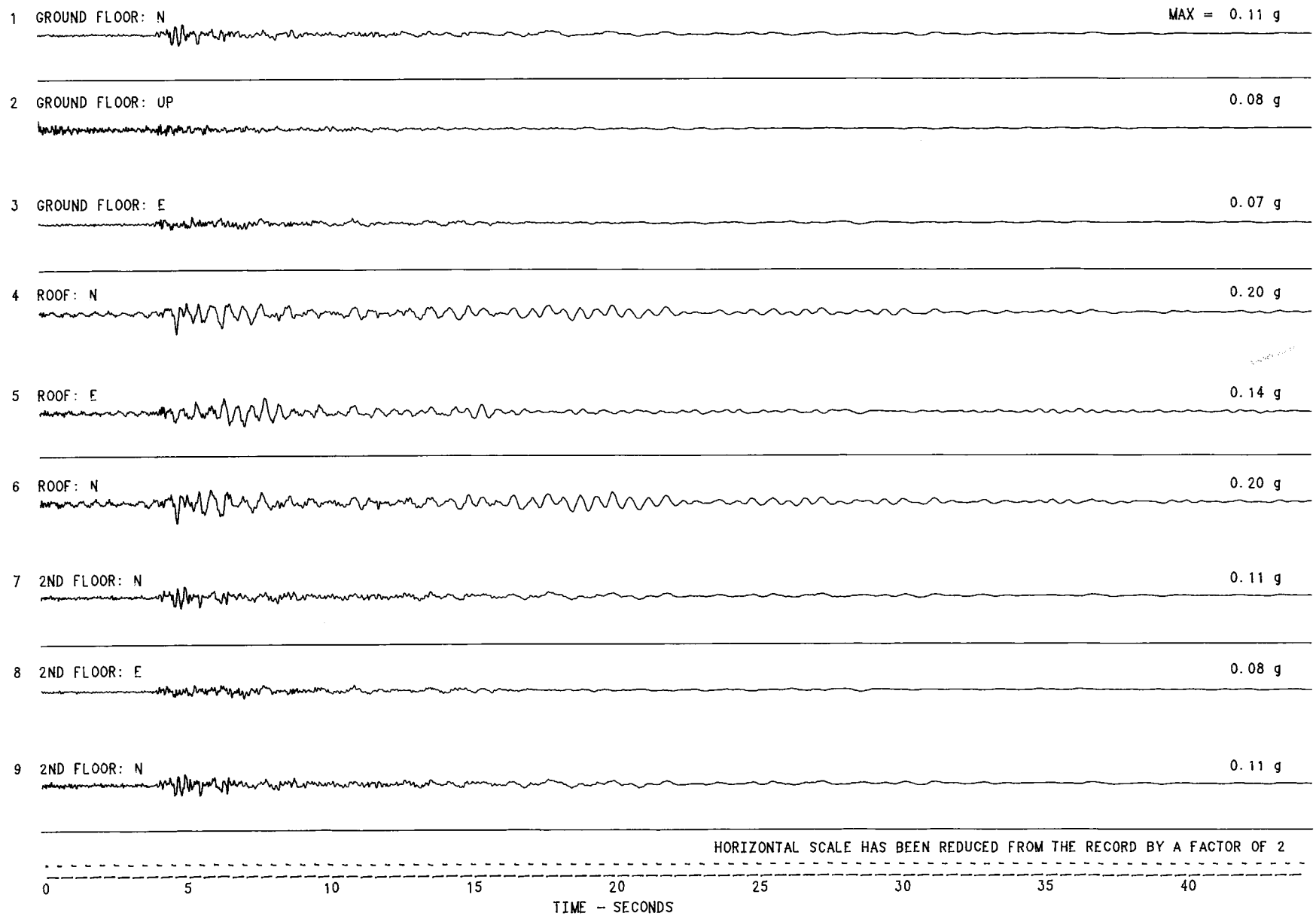
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090888.1636-QP86A299



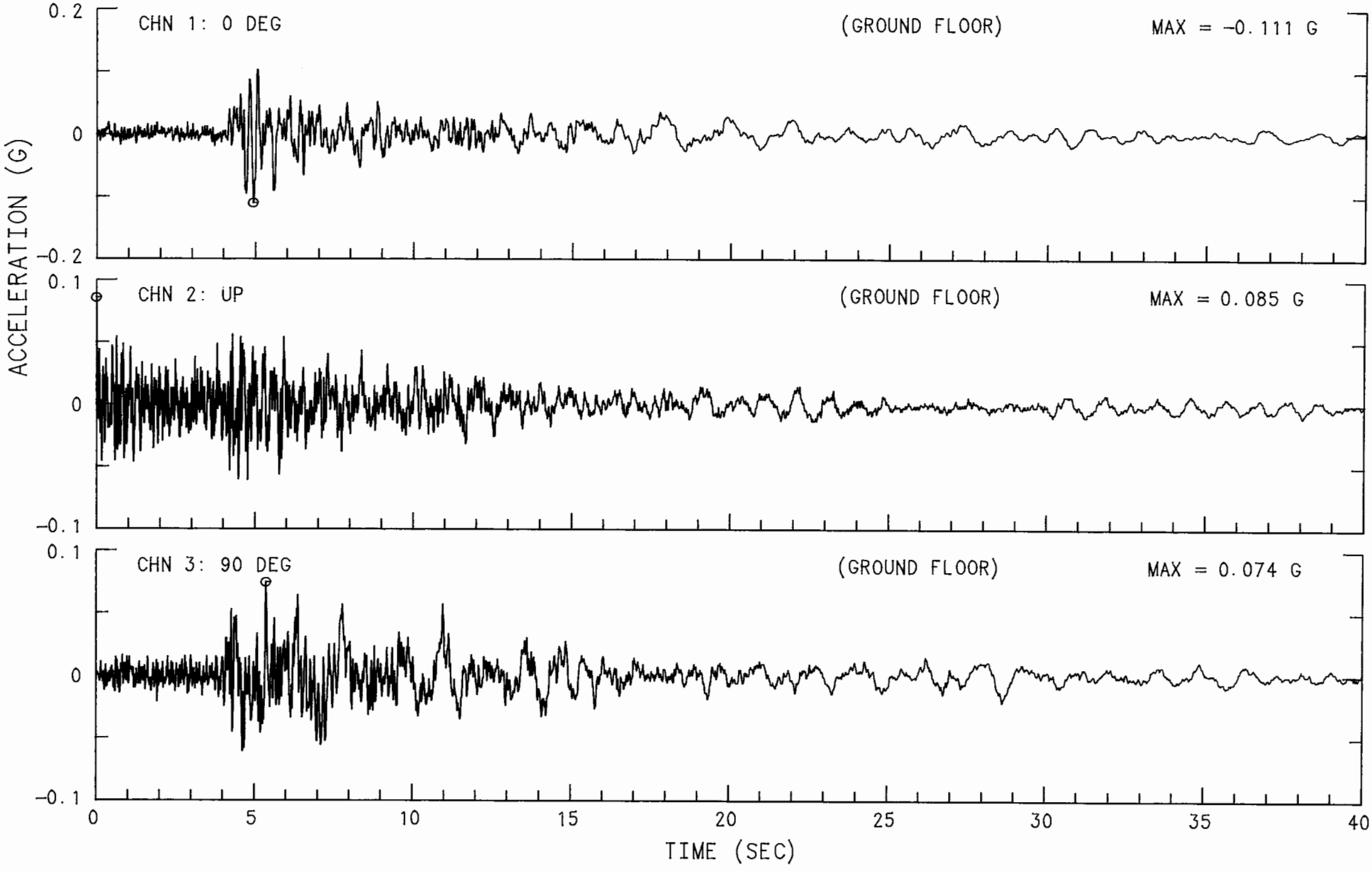
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM SPRINGS - DESERT HOSPITAL
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .20-.40 TO 23.0-25.0 HZ.
12299-C0192-86189.01 090888.1636-QP86A299



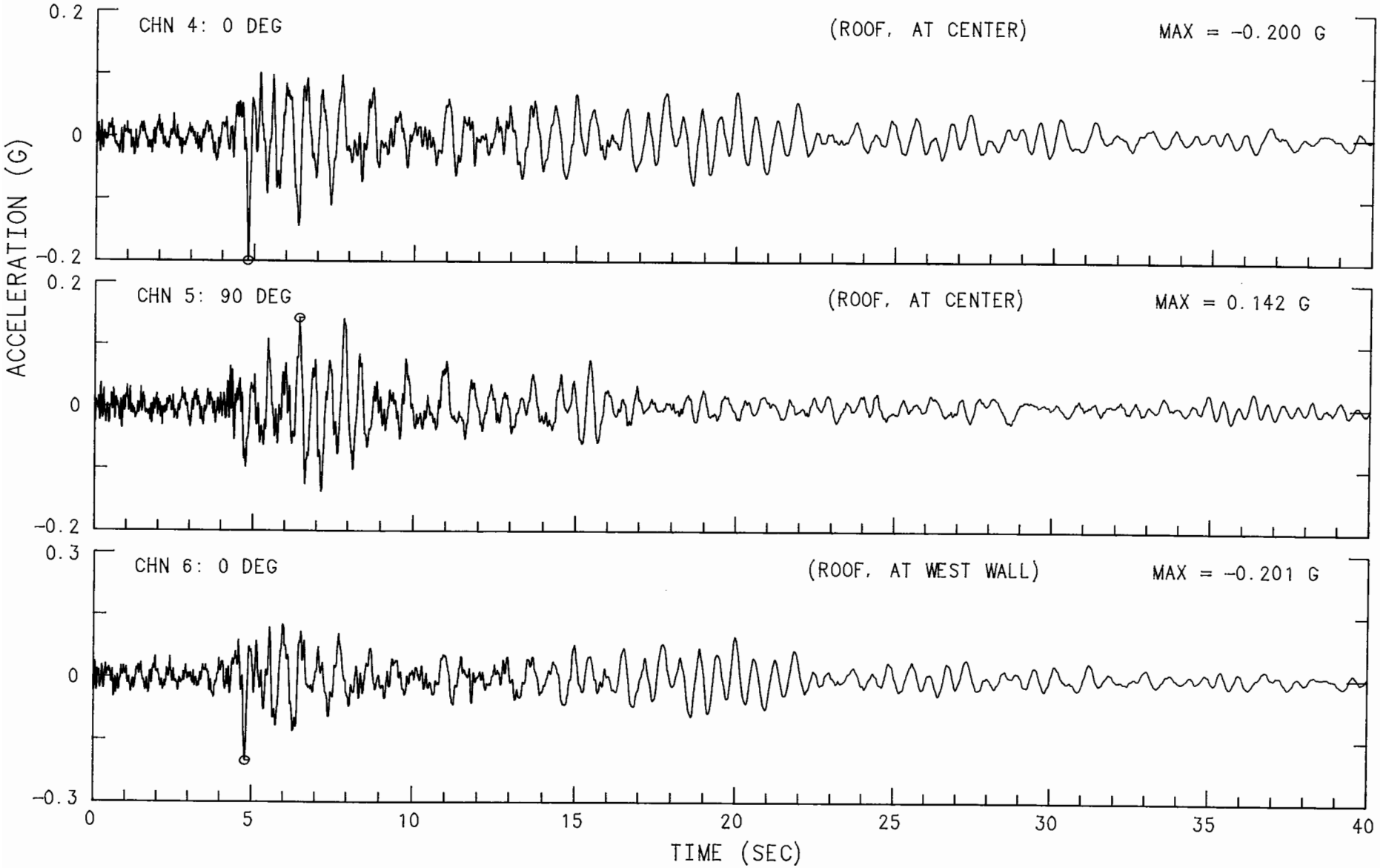
PALM DESERT - KIEWIT BUILDING RECORD 12284-C0132-86189.01 PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT



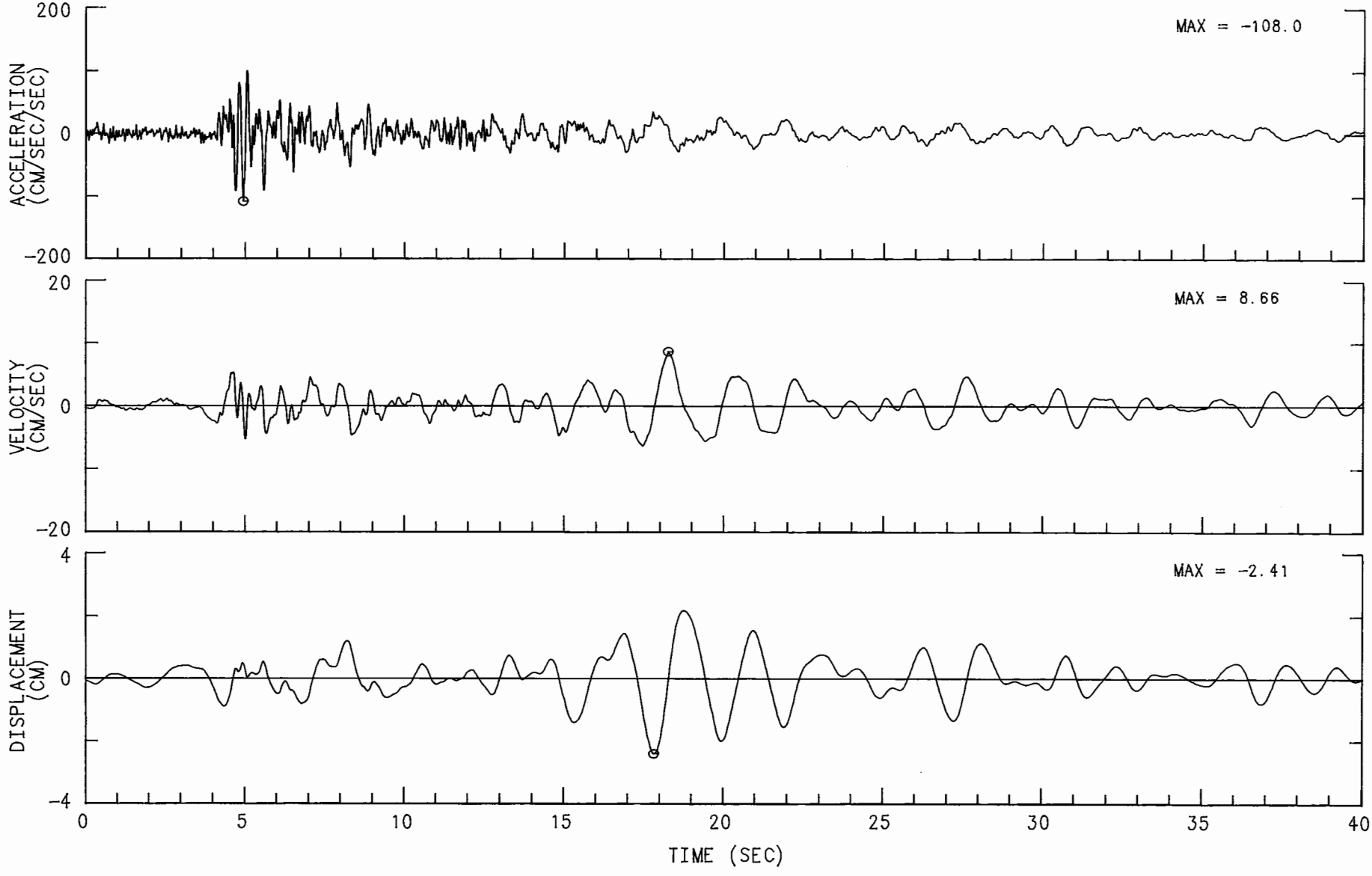
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
UNCORRECTED ACCELEROGRAM 12284-C0132-86189.01 082887.1541-QP86A284



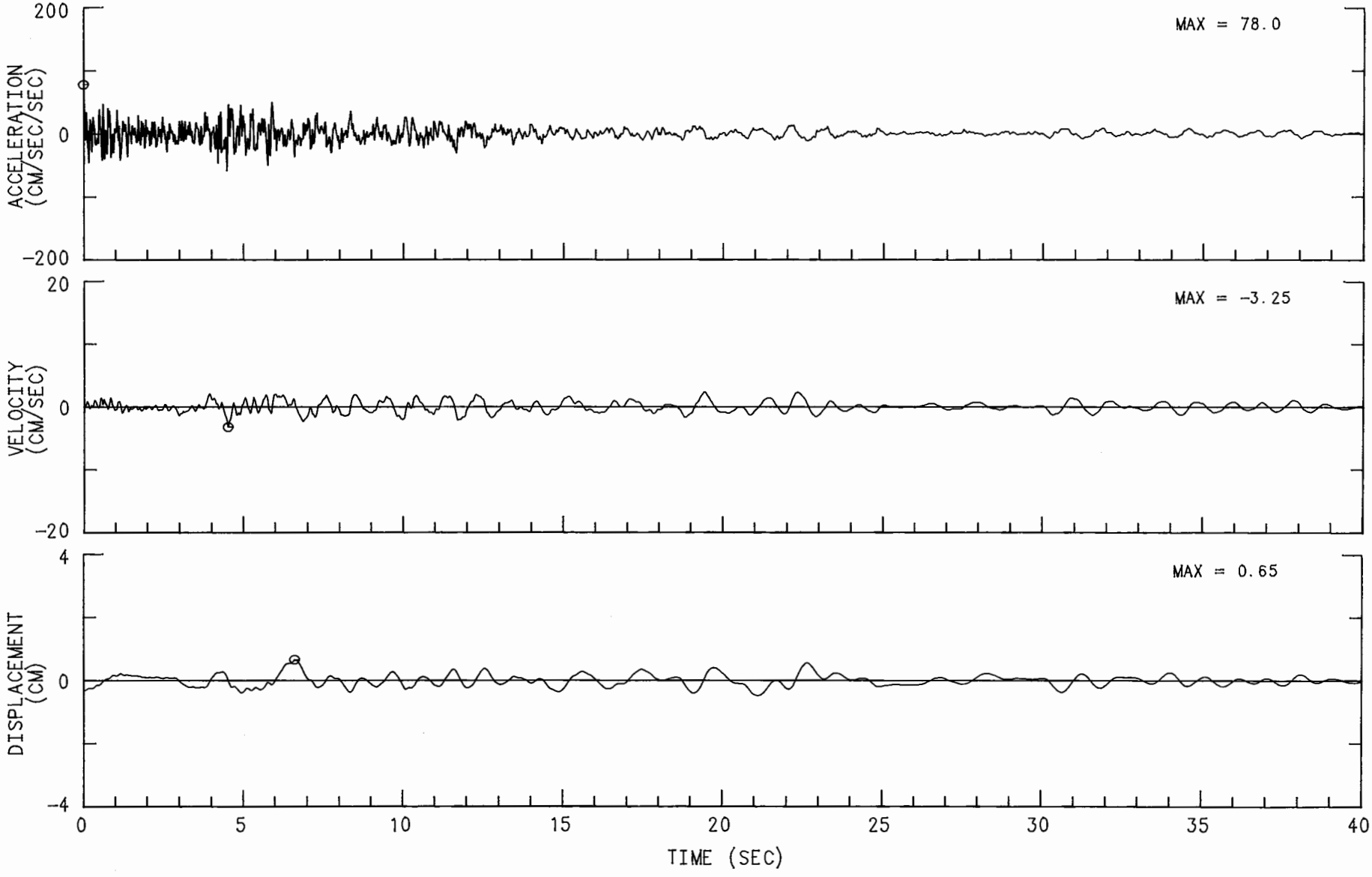
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
UNCORRECTED ACCELEROGRAM 12284-C0132-86189.01 082887.1541-QP86A284

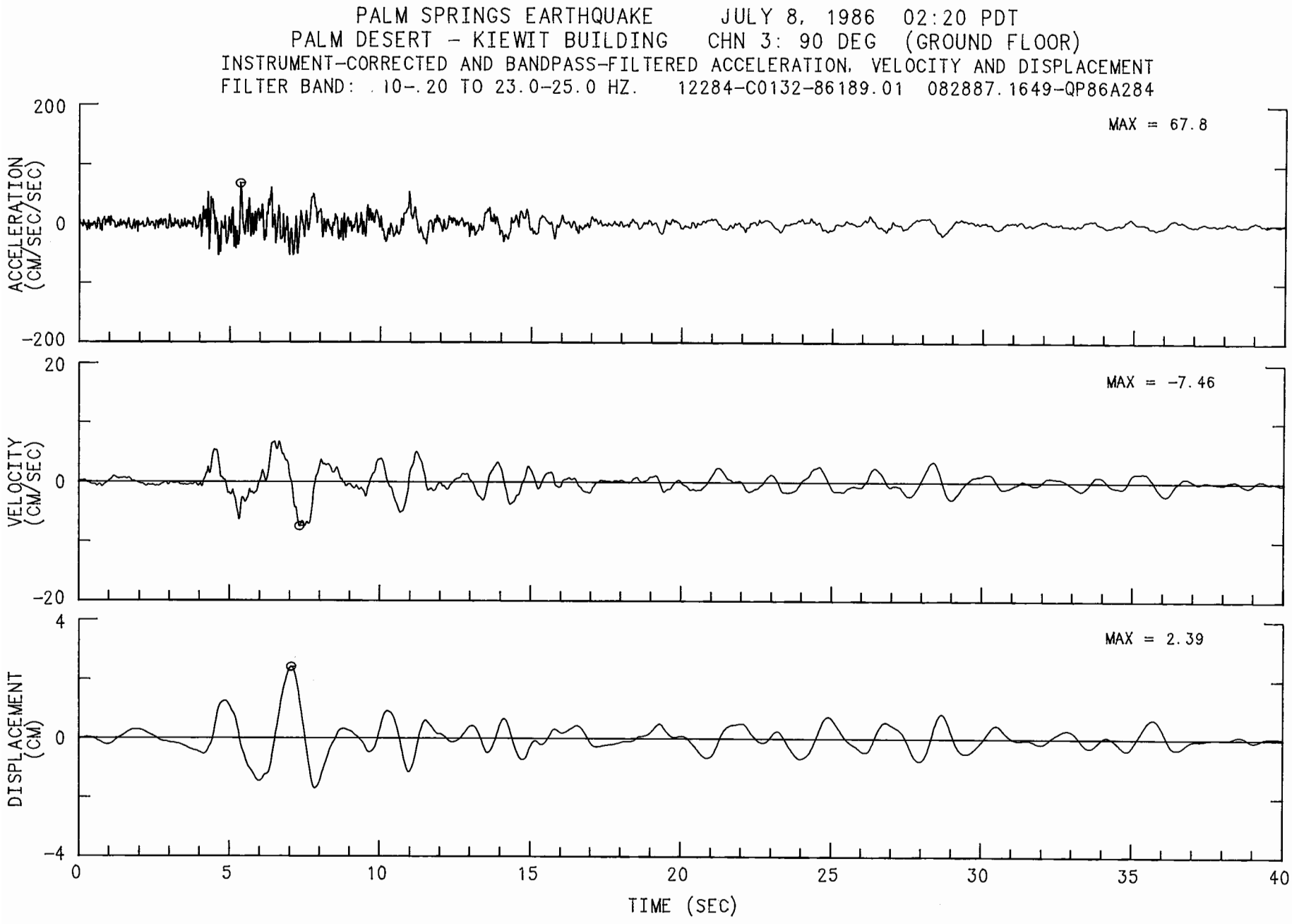


PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING CHN 1: 0 DEG (GROUND FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .10-.20 TO 23.0-25.0 HZ. 12284-C0132-86189.01 082887.1649-QP86A284

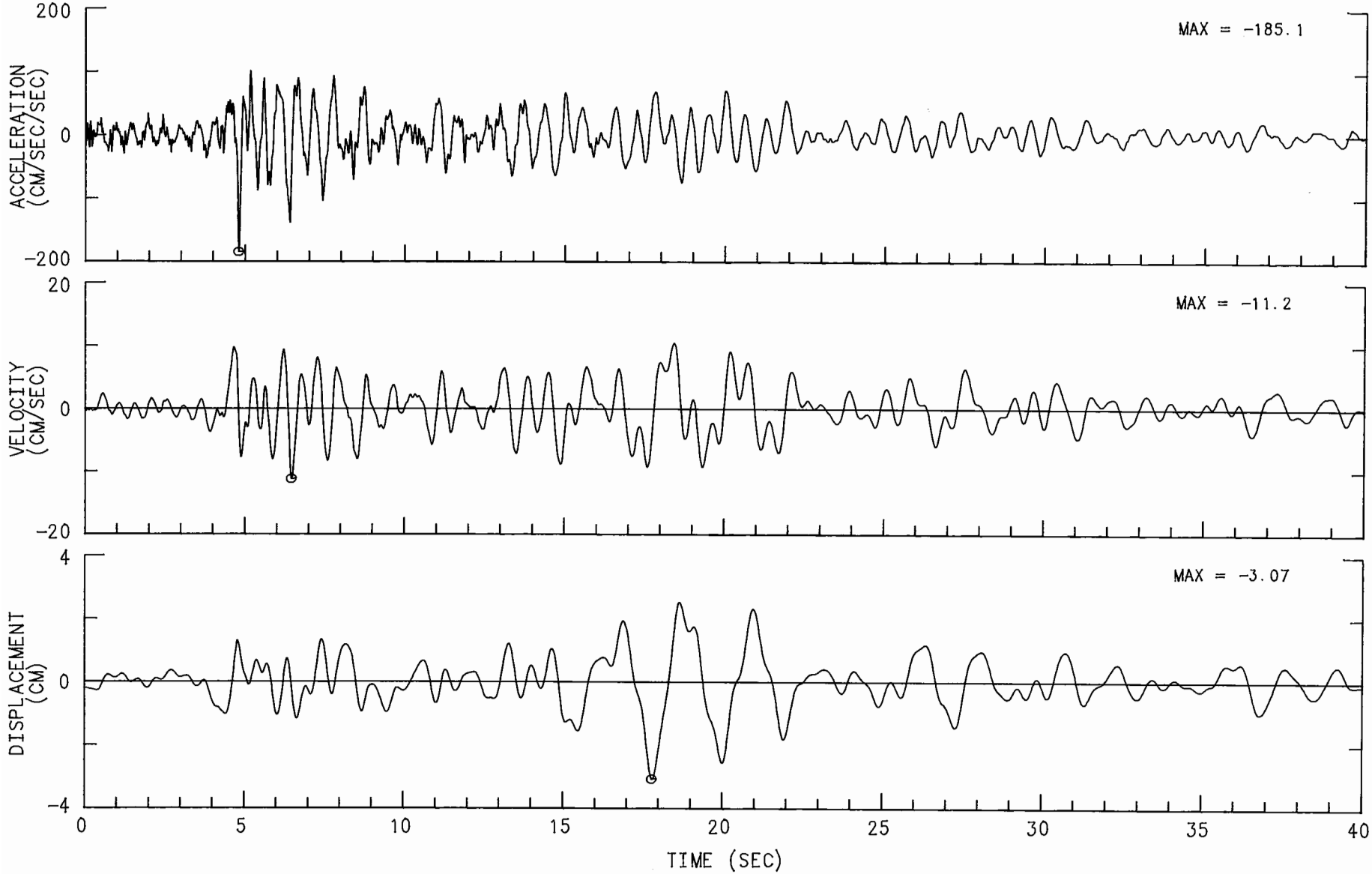


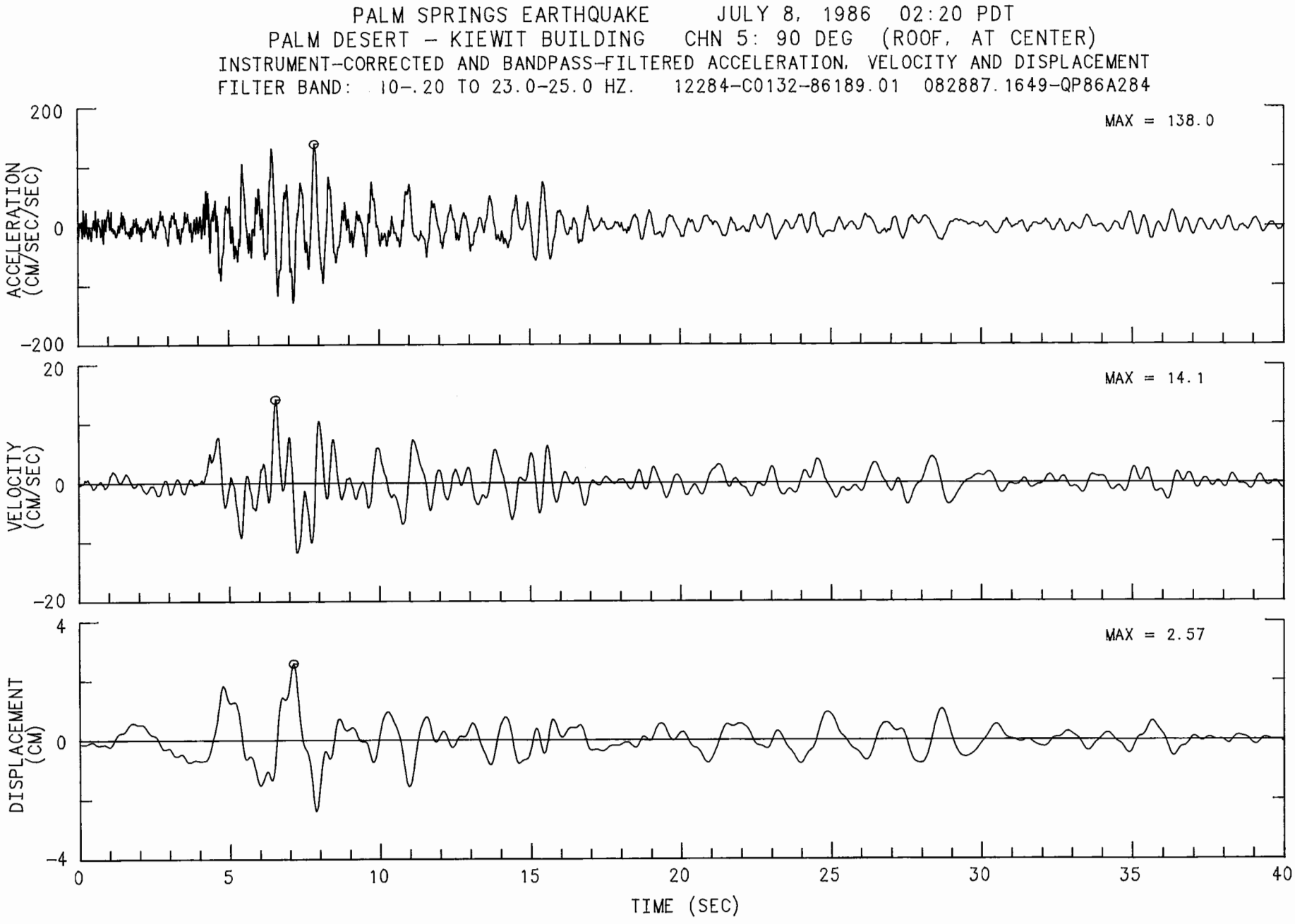
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING CHN 2: UP (GROUND FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .10-.20 TO 23.0-25.0 HZ. 12284-C0132-86189.01 082887.1649-QP86A284



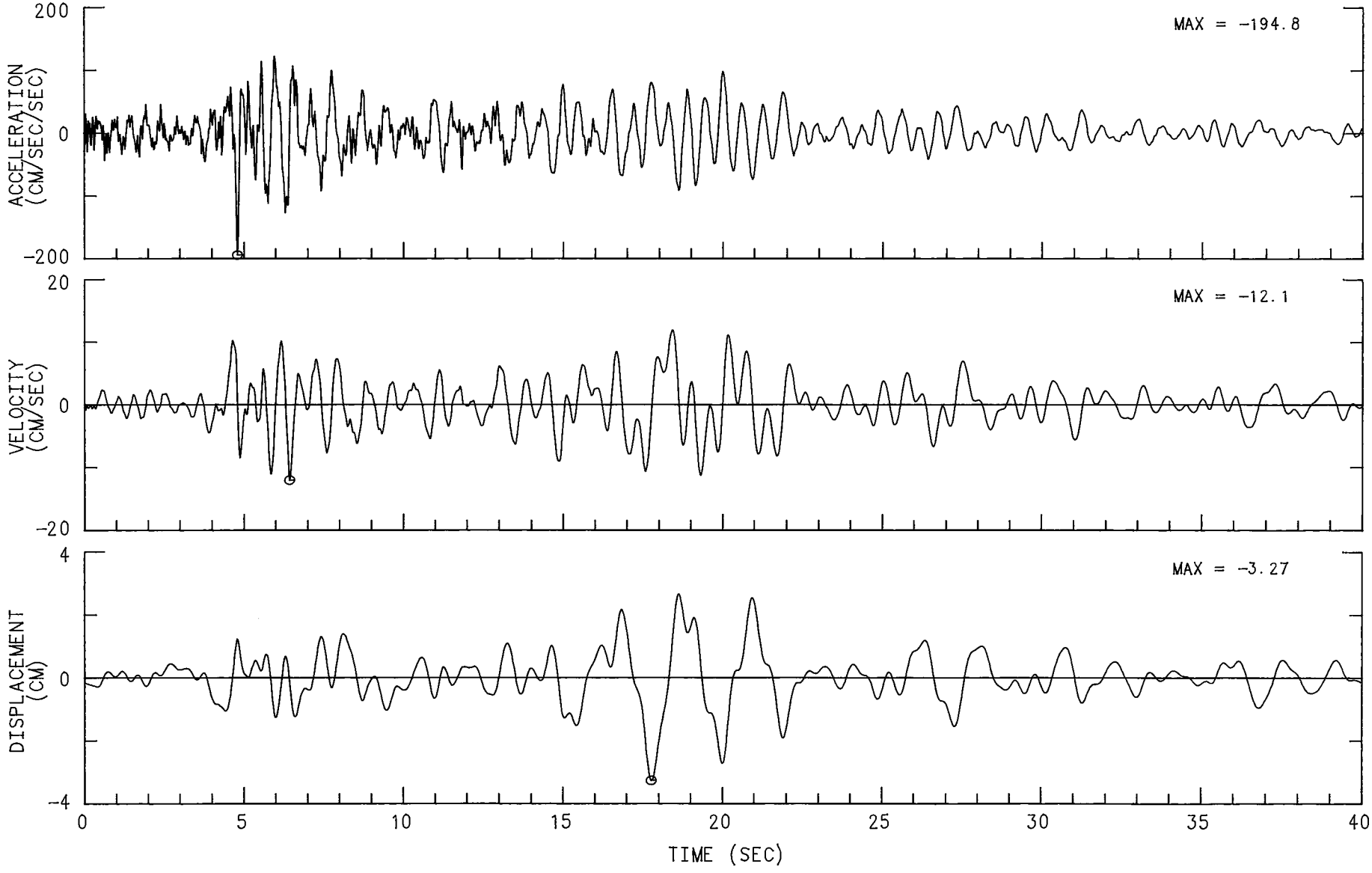

PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING CHN 3: 90 DEG (GROUND FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .10-.20 TO 23.0-25.0 HZ. 12284-C0132-86189.01 082887.1649-QP86A284
ACCELERATION (CM/SEC/SEC)
200
0
-200
MAX = 67.8
VELOCITY (CM/SEC)
20
0
-20
MAX = -7.46
DISPLACEMENT (CM)
4
0
-4
MAX = 2.39
0
5
10
15
20
25
30
35
40
TIME (SEC)

PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING CHN 4: 0 DEG (ROOF, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .10-.20 TO 23.0-25.0 HZ. 12284-C0132-86189.01 082887.1649-QP86A284

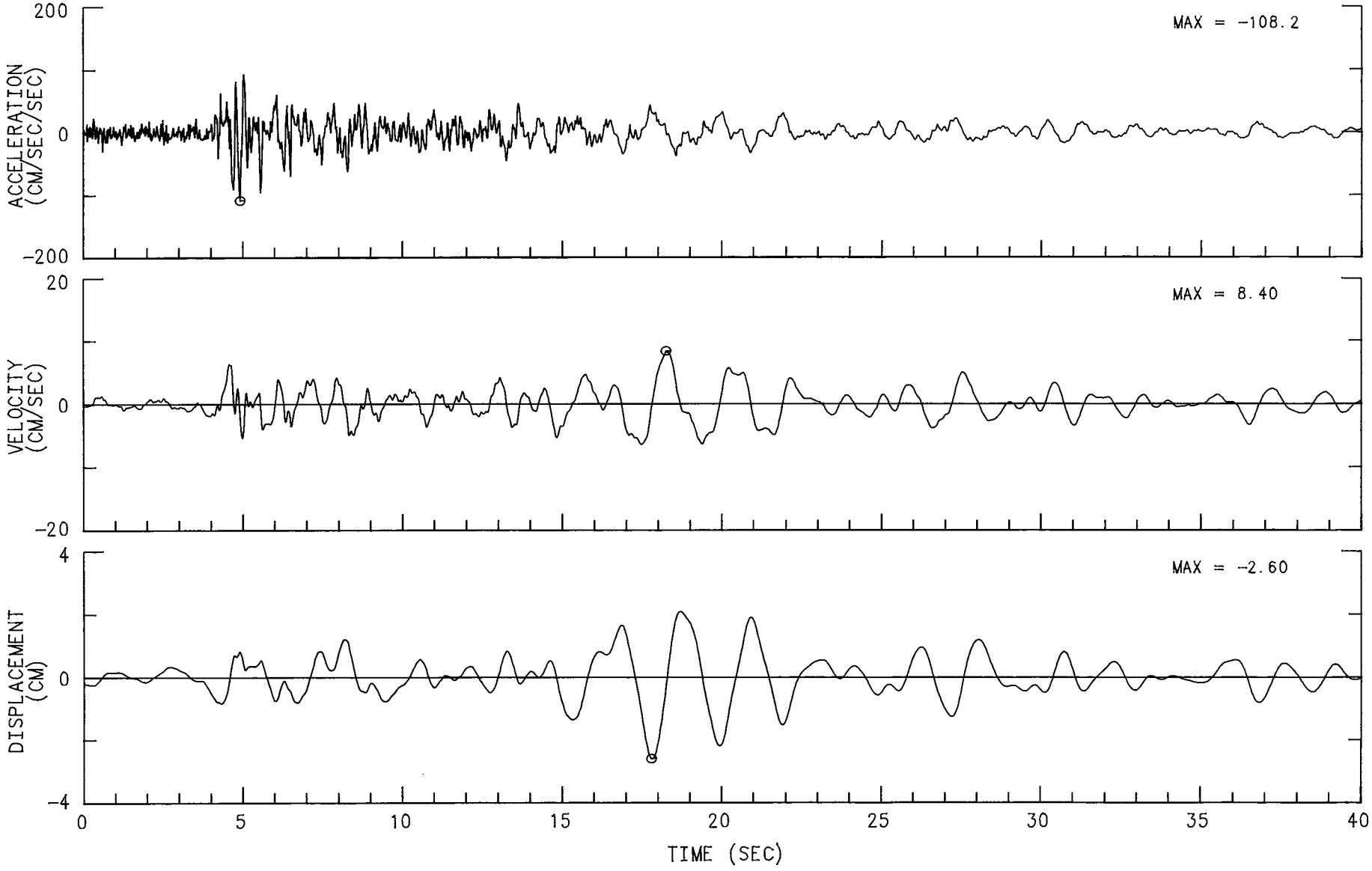



PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING CHN 5: 90 DEG (ROOF, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 10-.20 TO 23.0-25.0 HZ. 12284-C0132-86189.01 082887.1649-QP86A284
ACCELERATION (CM/SEC/SEC)
200
0
-200
MAX = 138.0
VELOCITY (CM/SEC)
20
0
-20
MAX = 14.1
DISPLACEMENT (CM)
4
0
-4
MAX = 2.57
0
5
10
15
20
25
30
35
40
TIME (SEC)

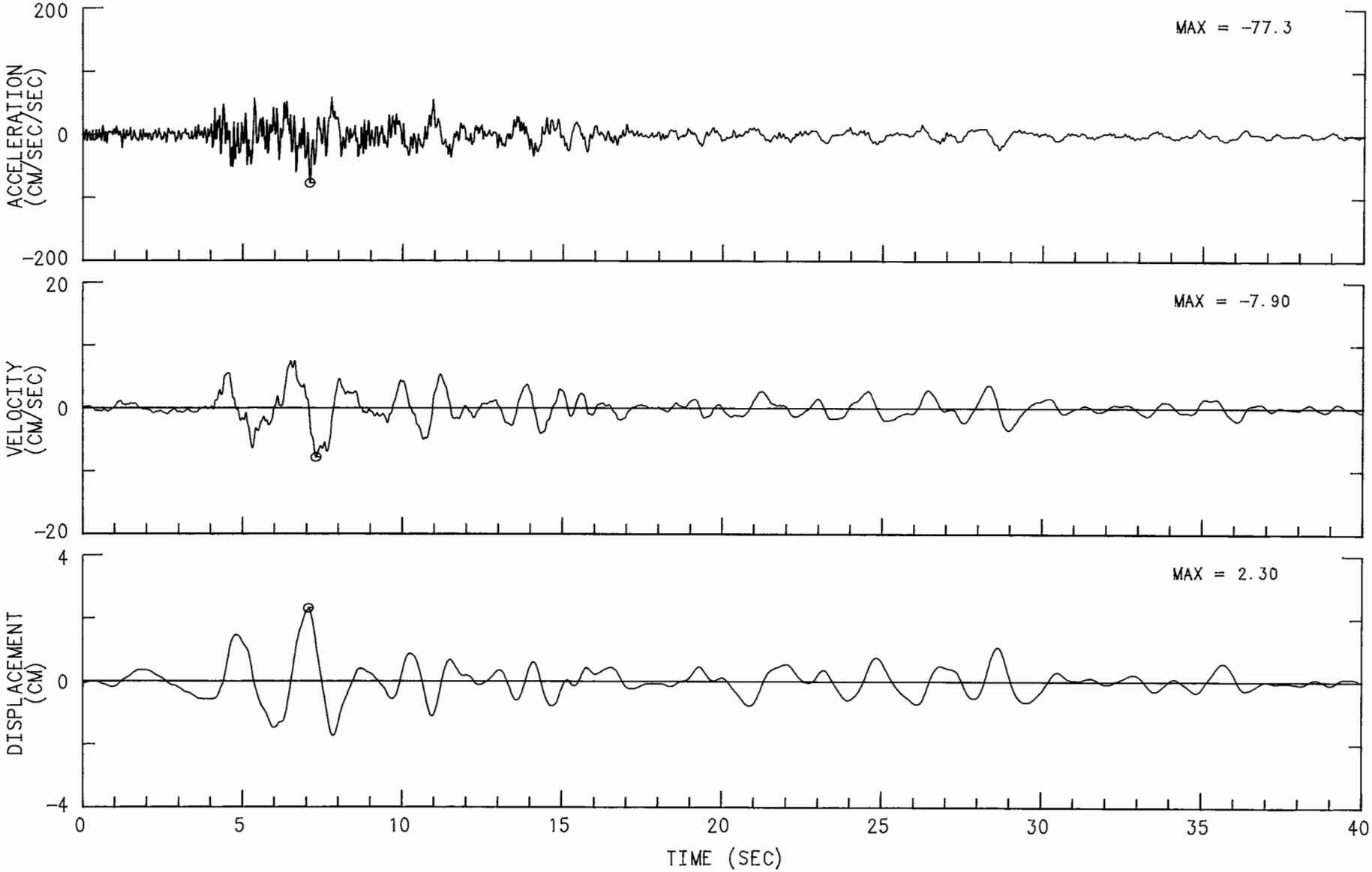
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING CHN 6: 0 DEG (ROOF, AT WEST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .10-.20 TO 23.0-25.0 HZ. 12284-C0132-86189.01 082887.1649-QP86A284



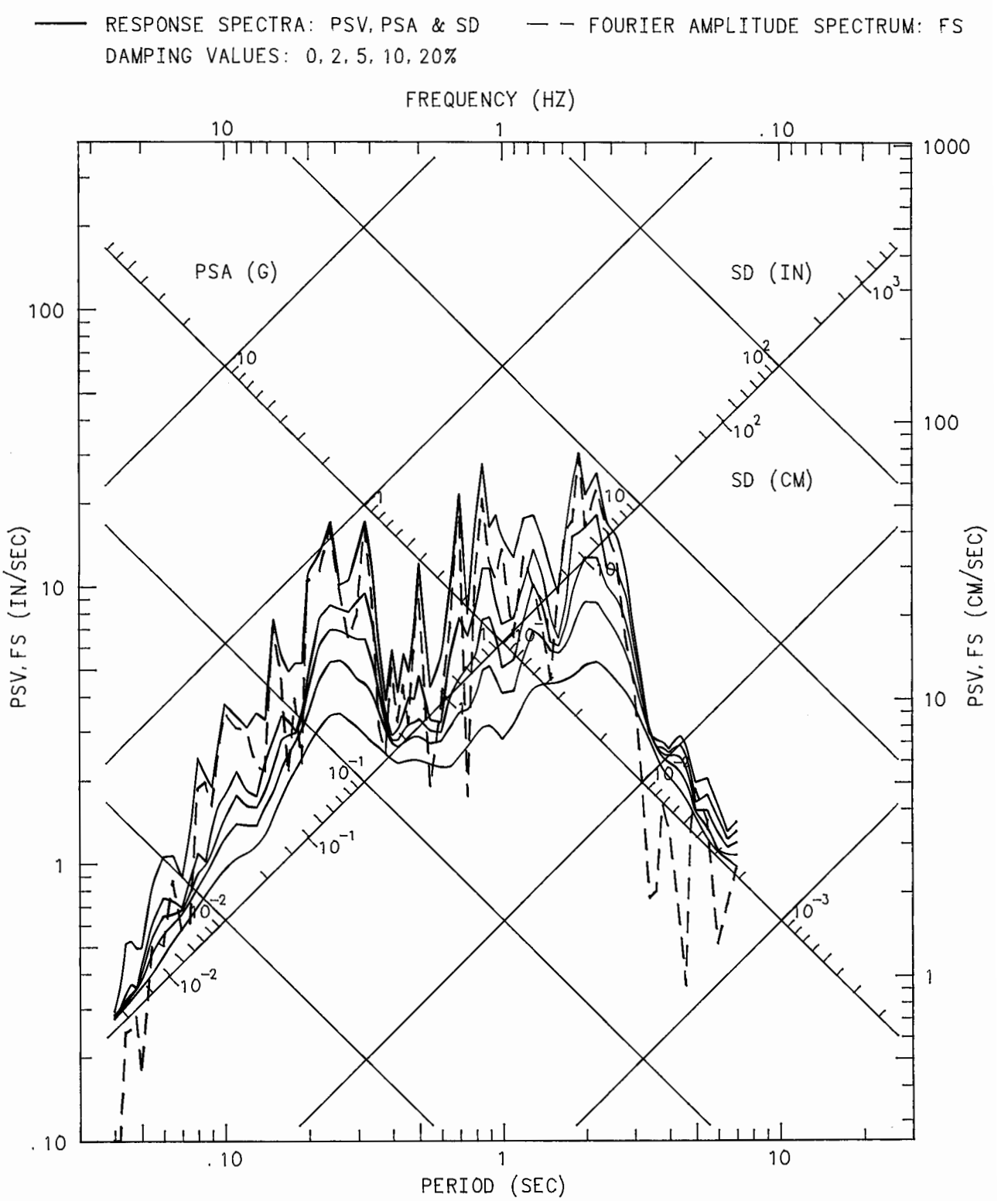
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING CHN 7: 0 DEG (2ND FLOOR, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .10-.20 TO 23.0-25.0 HZ. 12284-C0132-86189.01 082887.1649-QP86A284



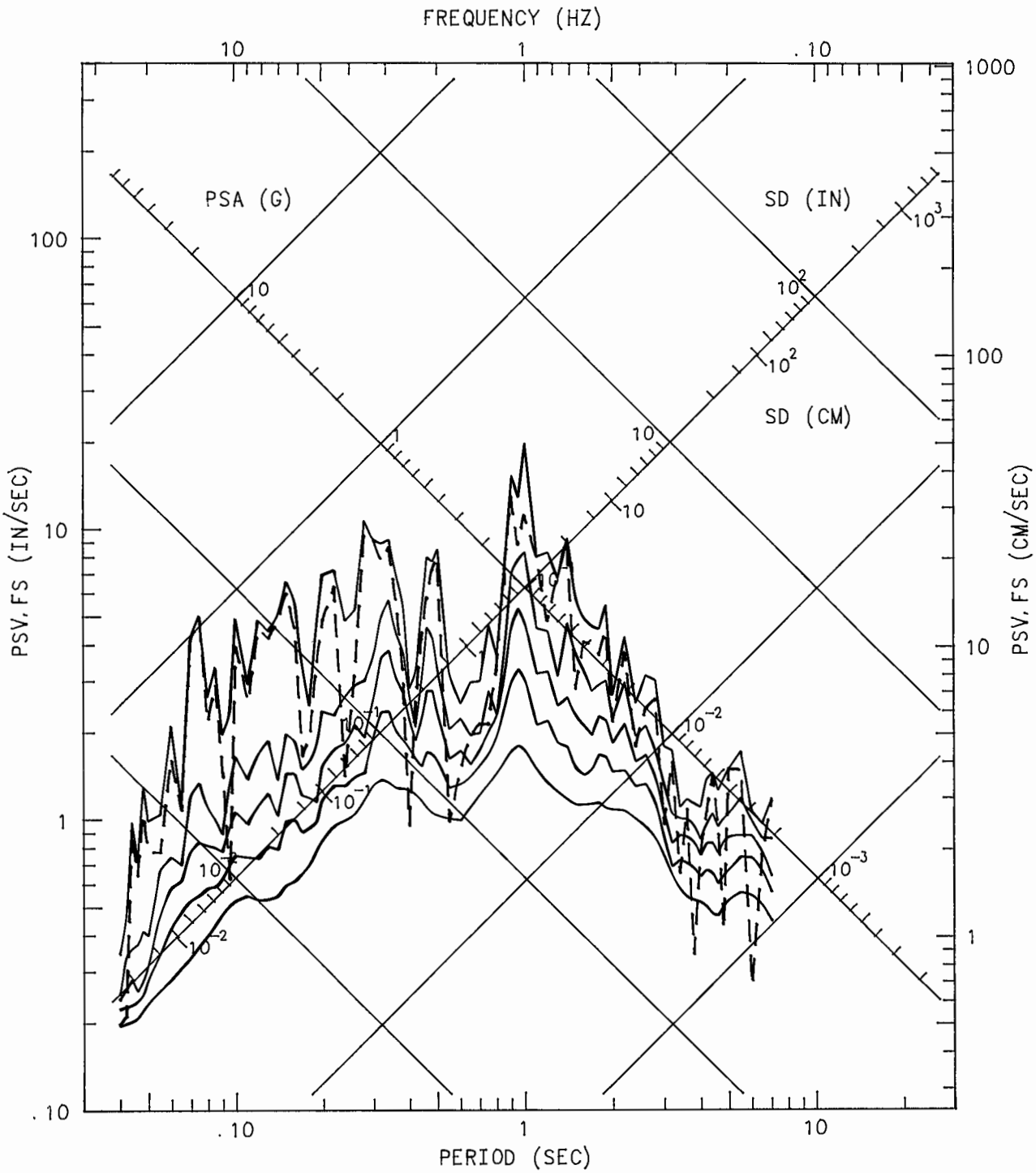
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING CHN 8: 90 DEG (2ND FLOOR, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 10-.20 TO 23.0-25.0 HZ. 12284-C0132-86189.01 082887.1649-QP86A284



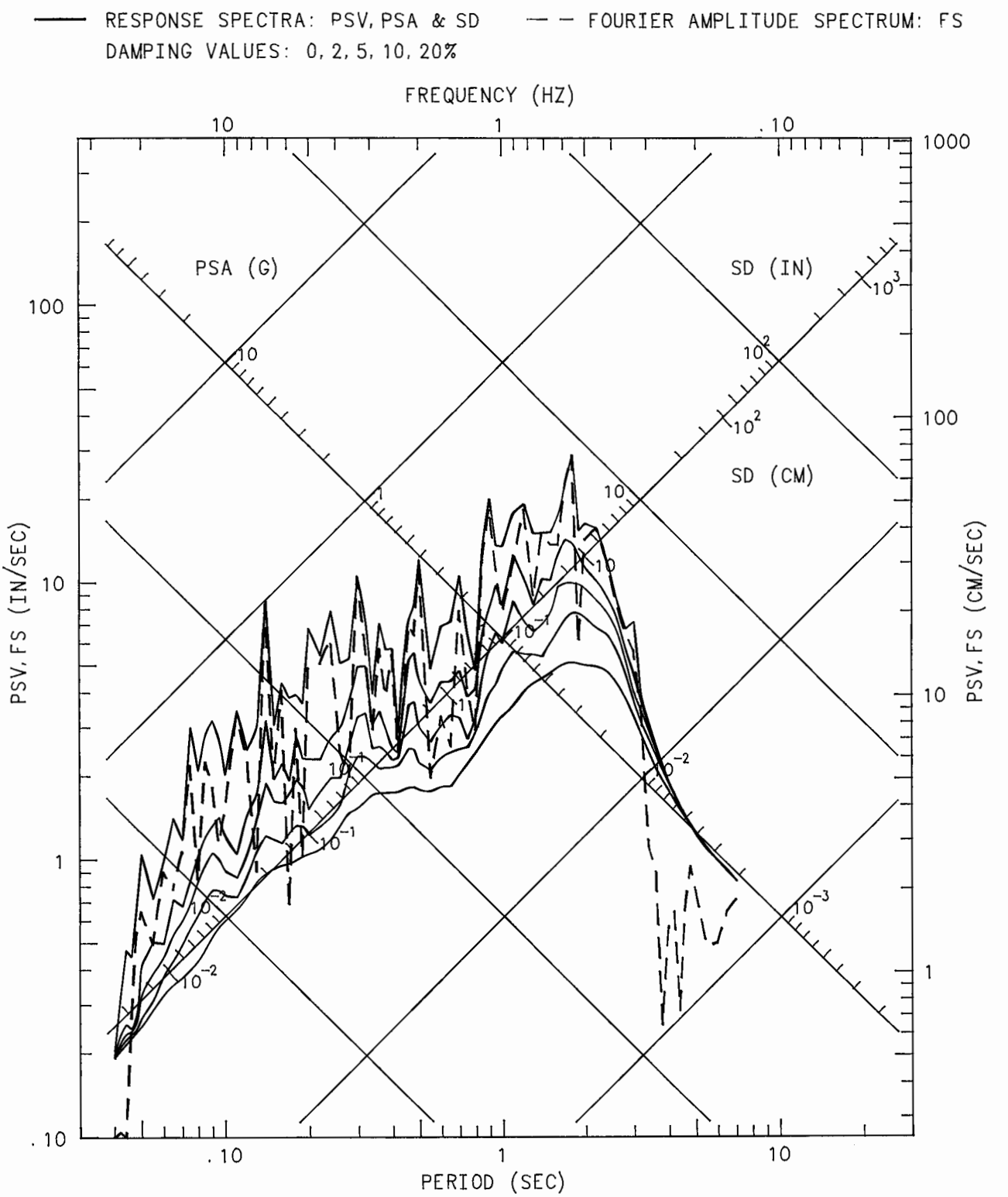
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
CHN 1: 0 DEG (GROUND FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



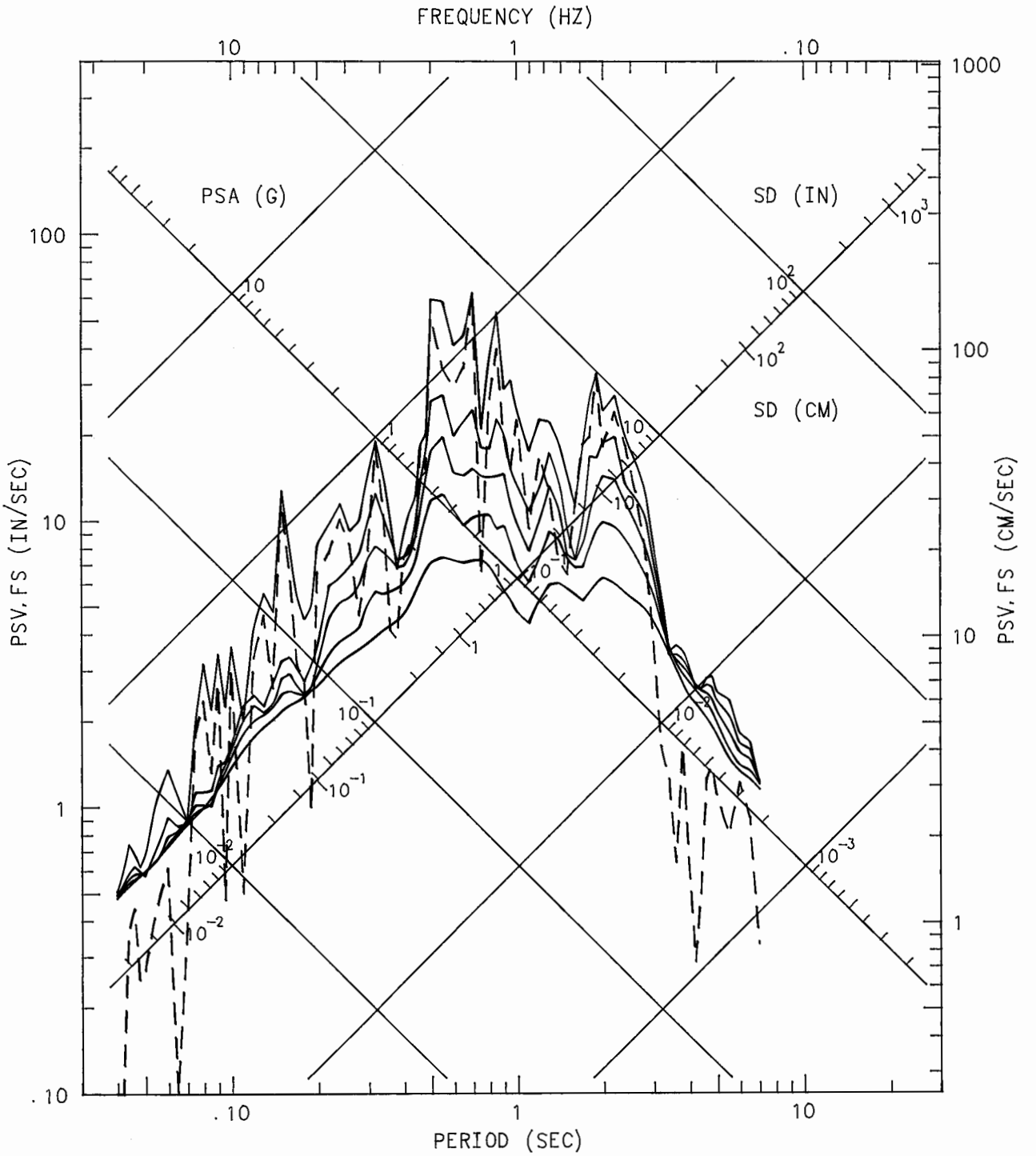
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
CHN 2: UP (GROUND FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



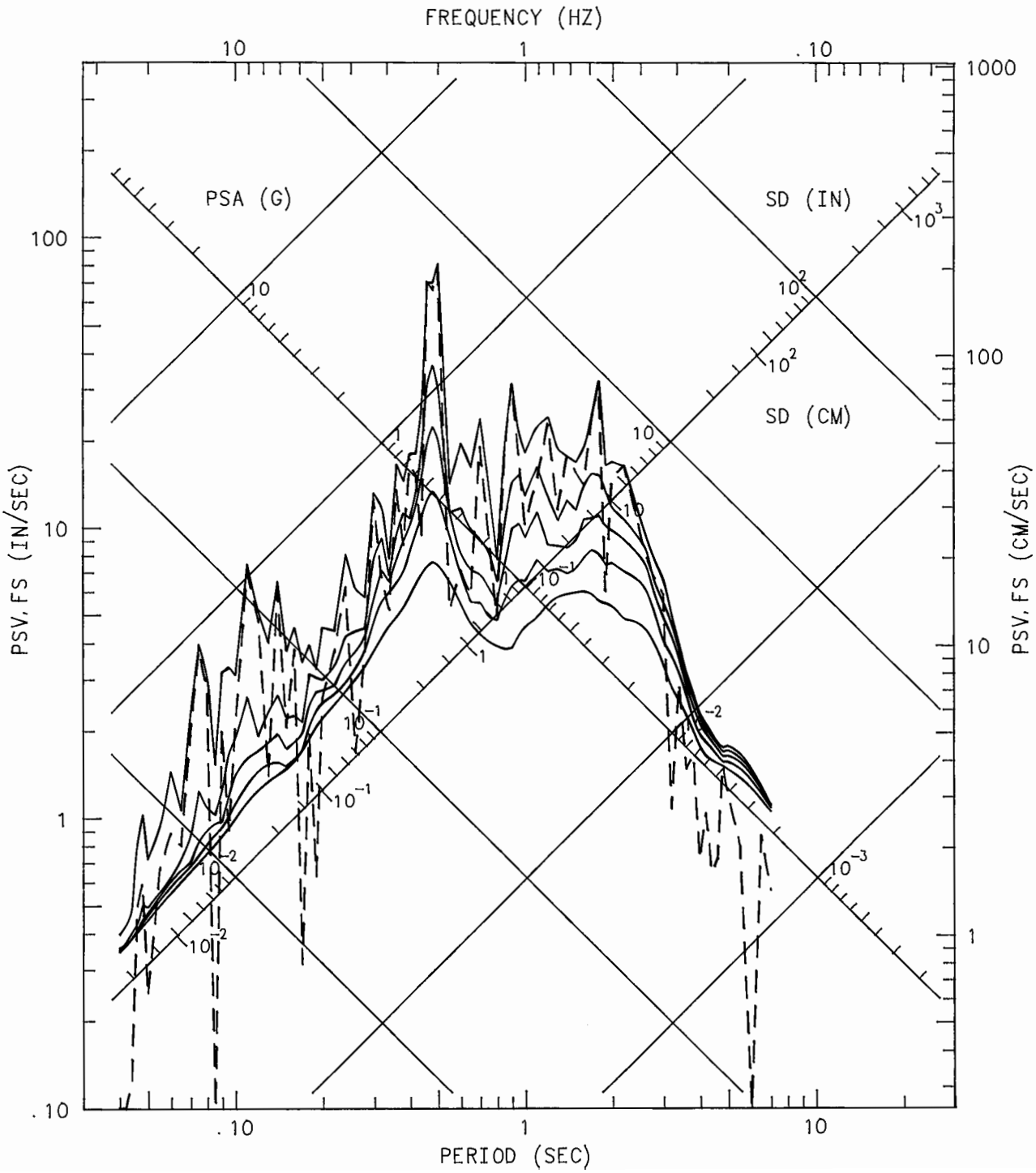
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
CHN 3: 90 DEG (GROUND FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



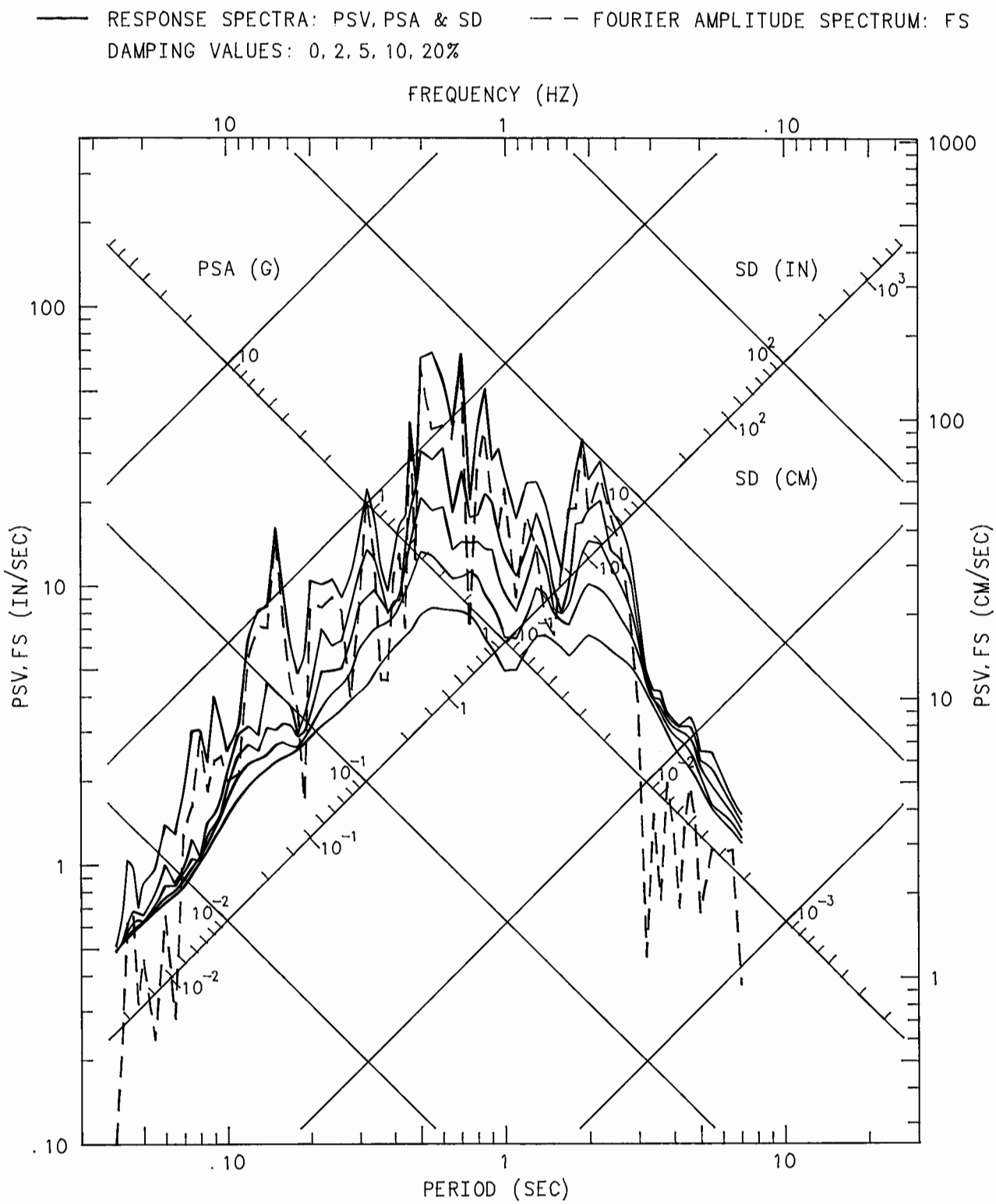
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
CHN 4: 0 DEG (ROOF, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



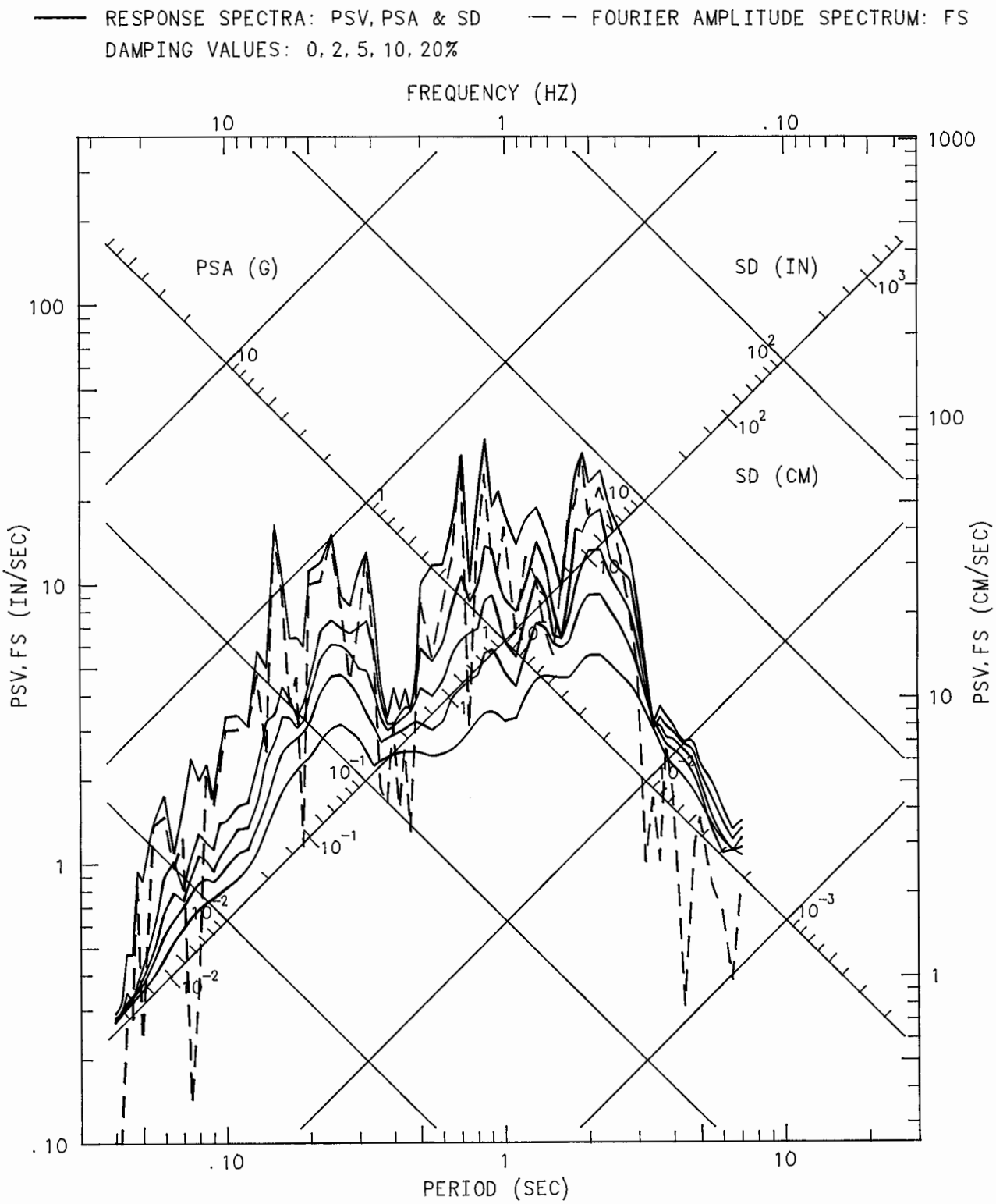
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
CHN 5: 90 DEG (ROOF, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



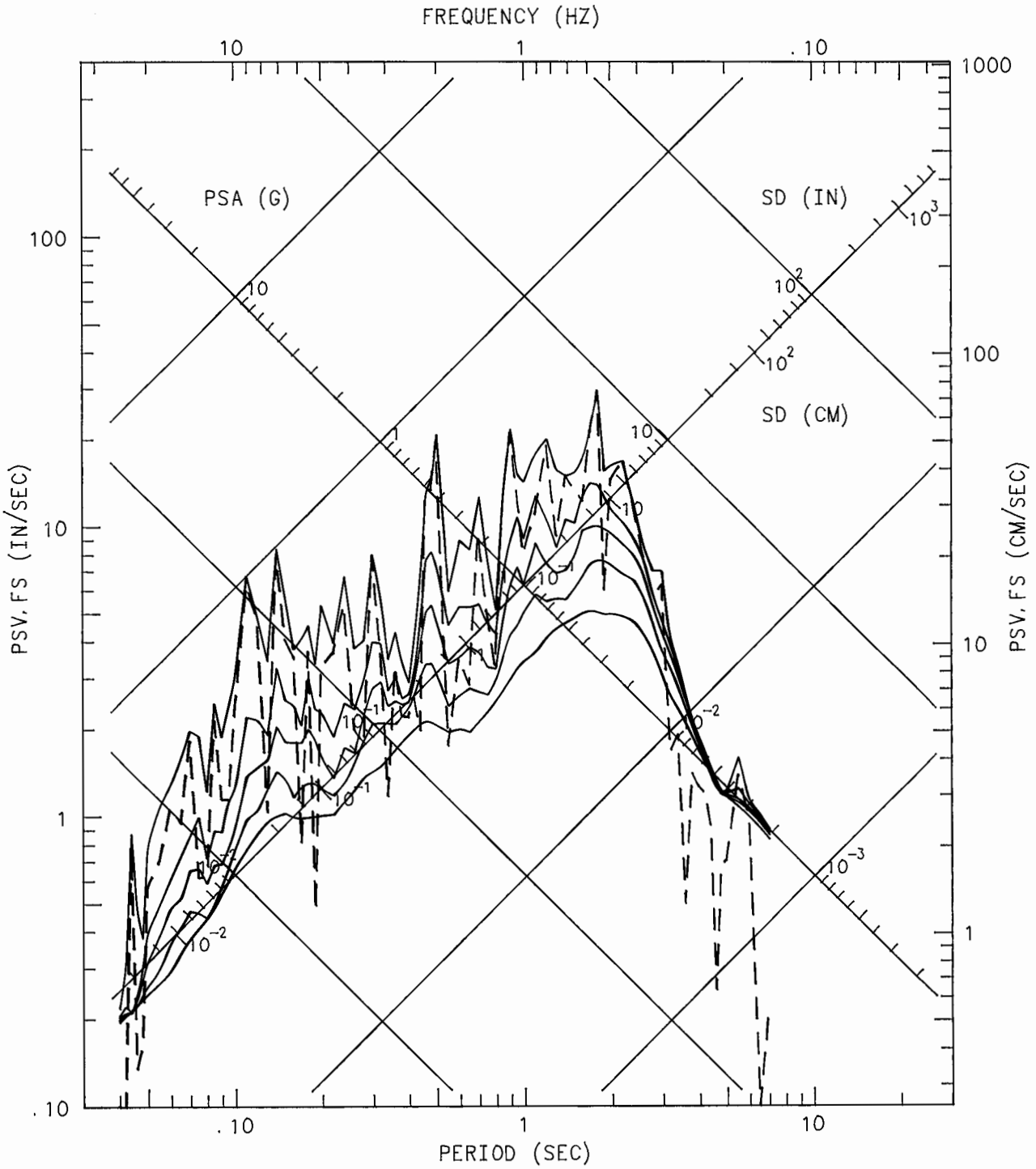
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
CHN 6: 0 DEG (ROOF, AT WEST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



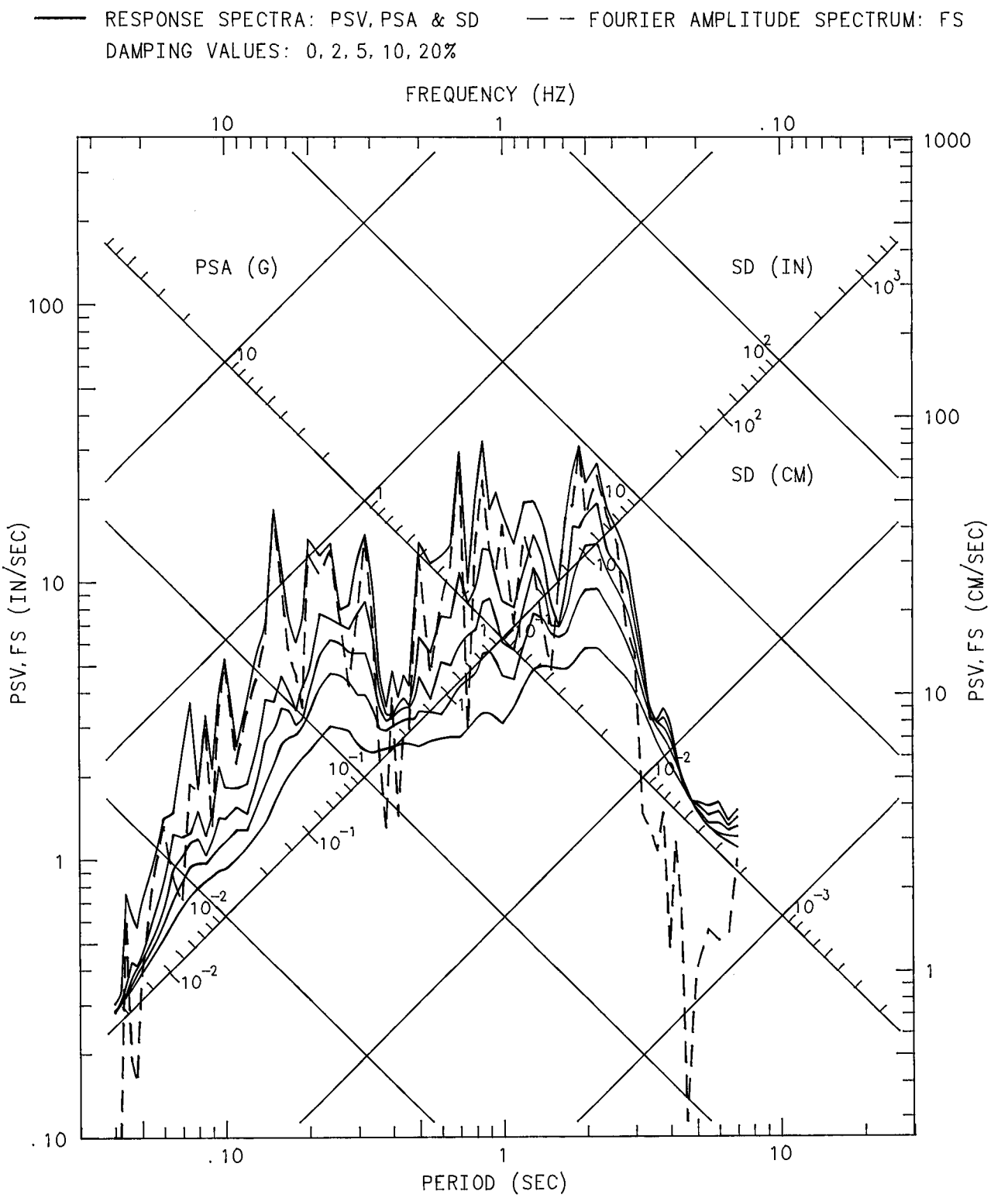
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
CHN 7: 0 DEG (2ND FLOOR, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



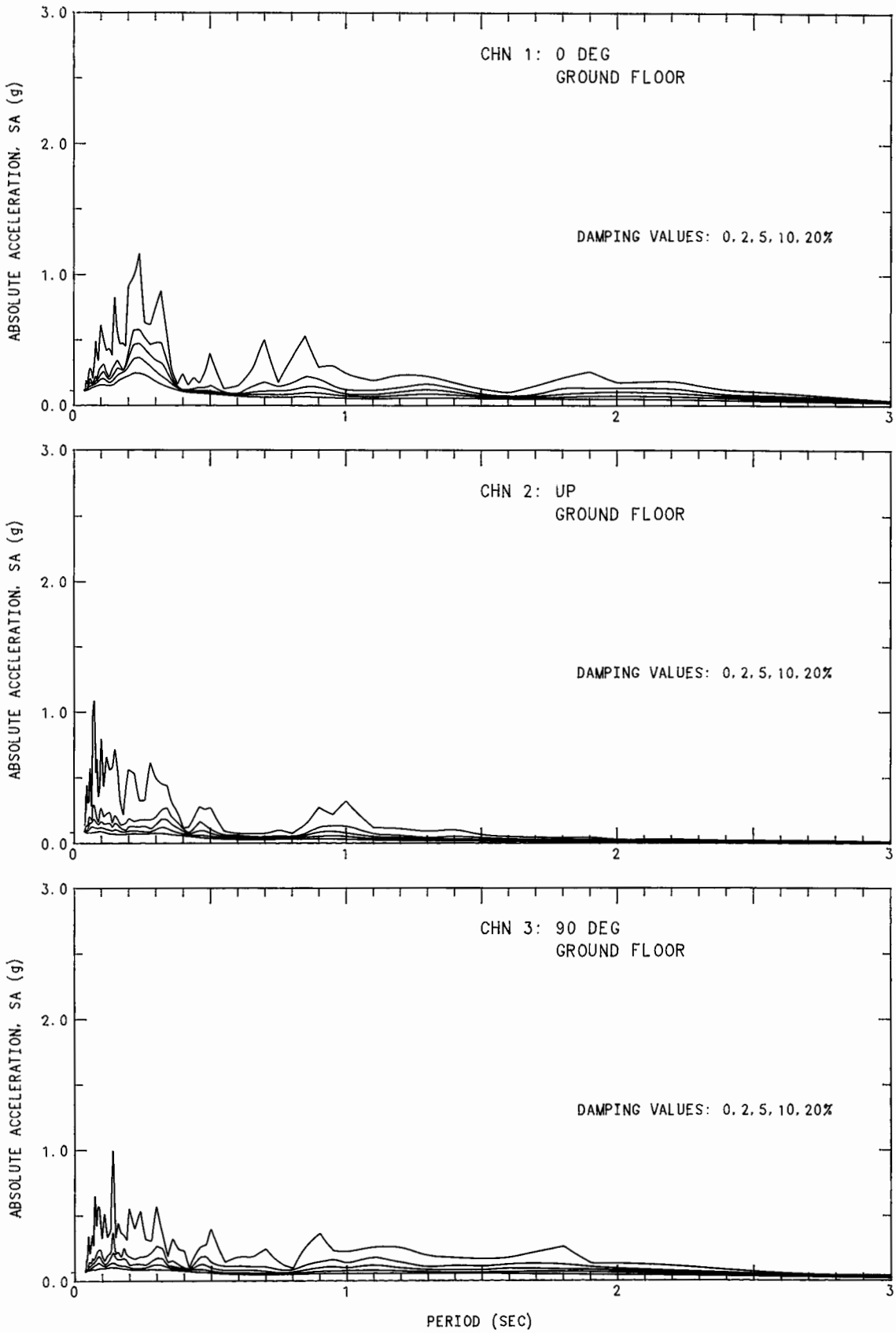
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
CHN 8: 90 DEG (2ND FLOOR, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



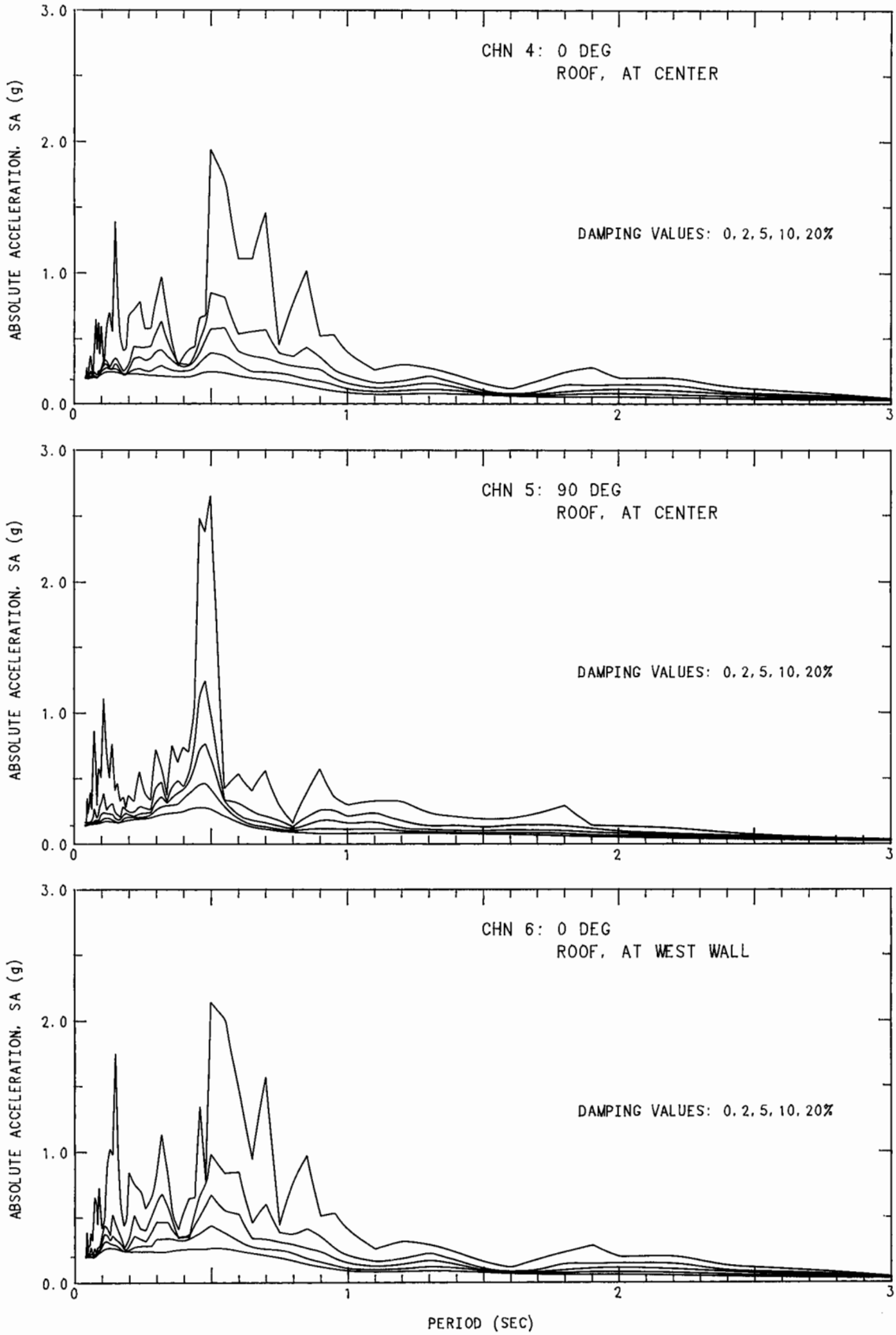
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
CHN 9: 0 DEG (2ND FLOOR, AT WEST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



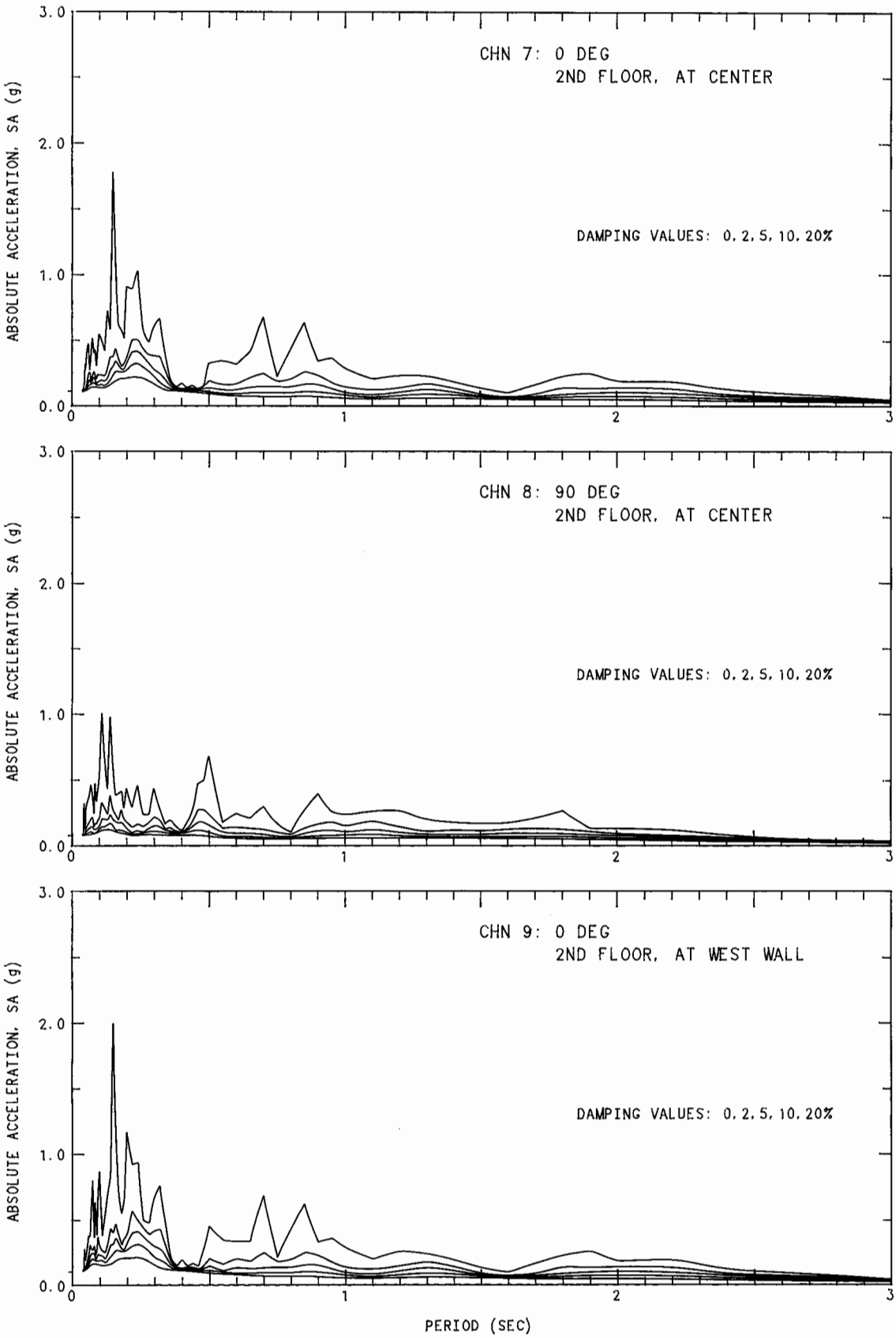
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



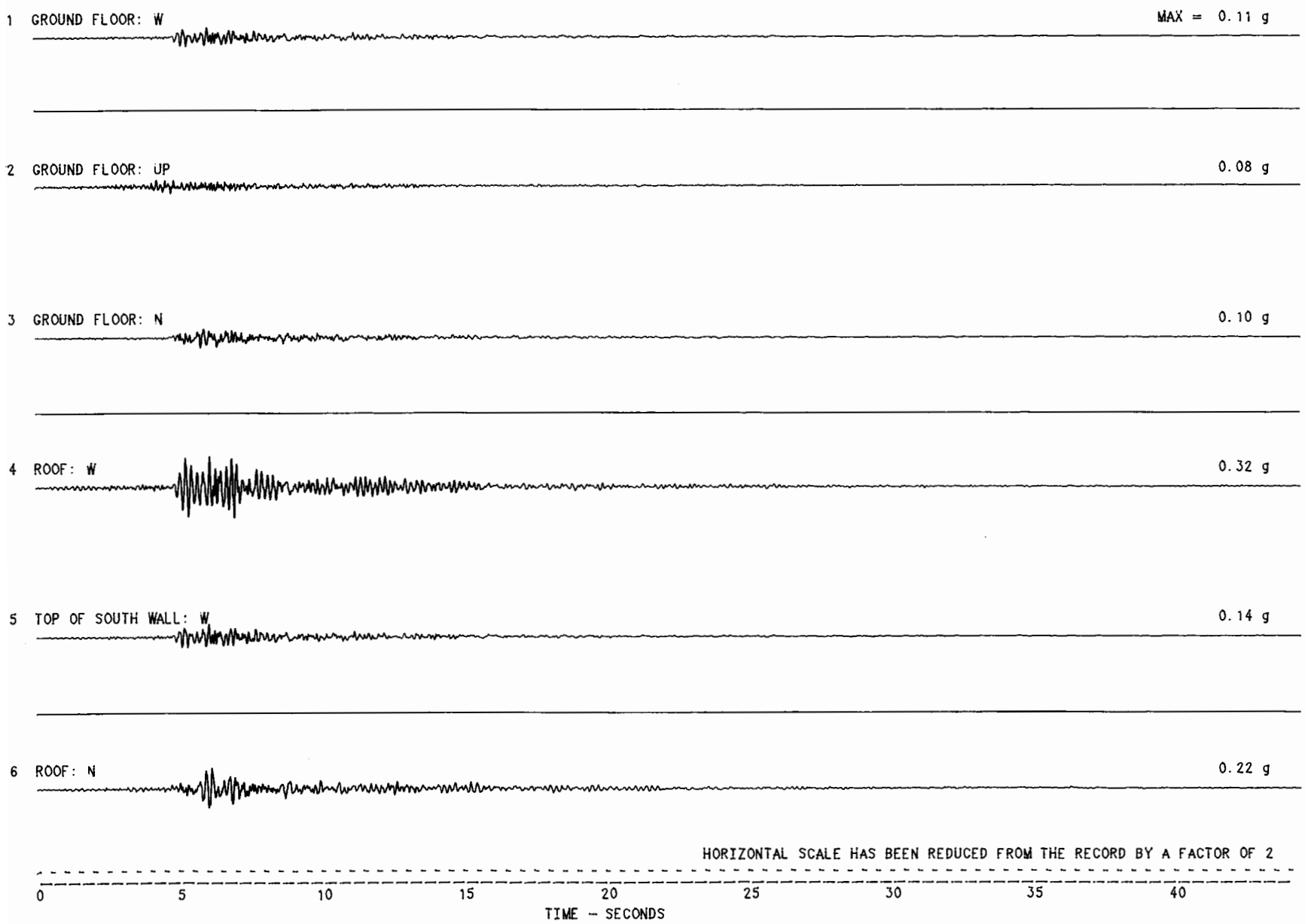
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



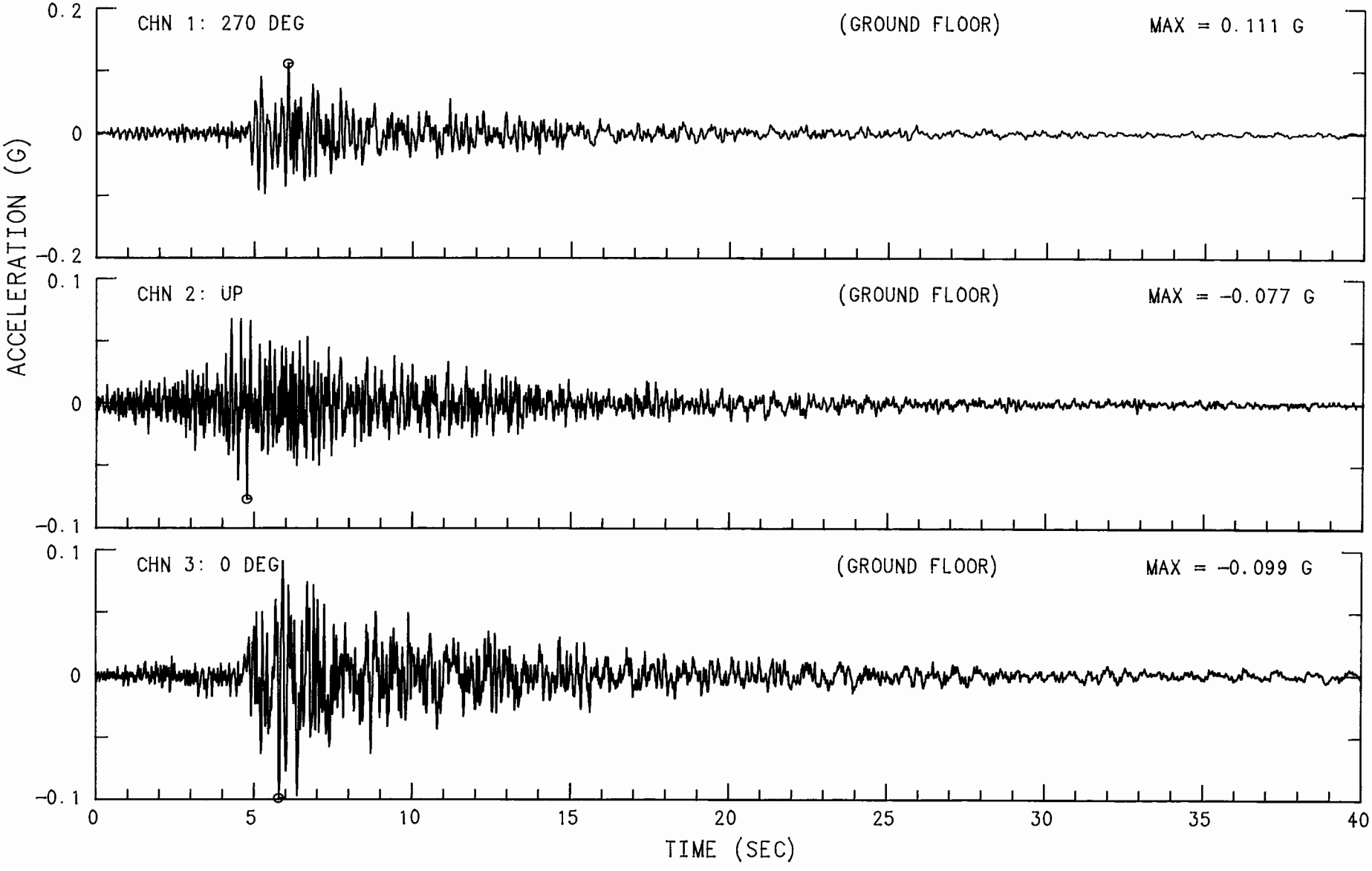
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
PALM DESERT - KIEWIT BUILDING
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .10-.20 TO 23.0-25.0 HZ.
12284-C0132-86189.01 082887.1733-QP86A284



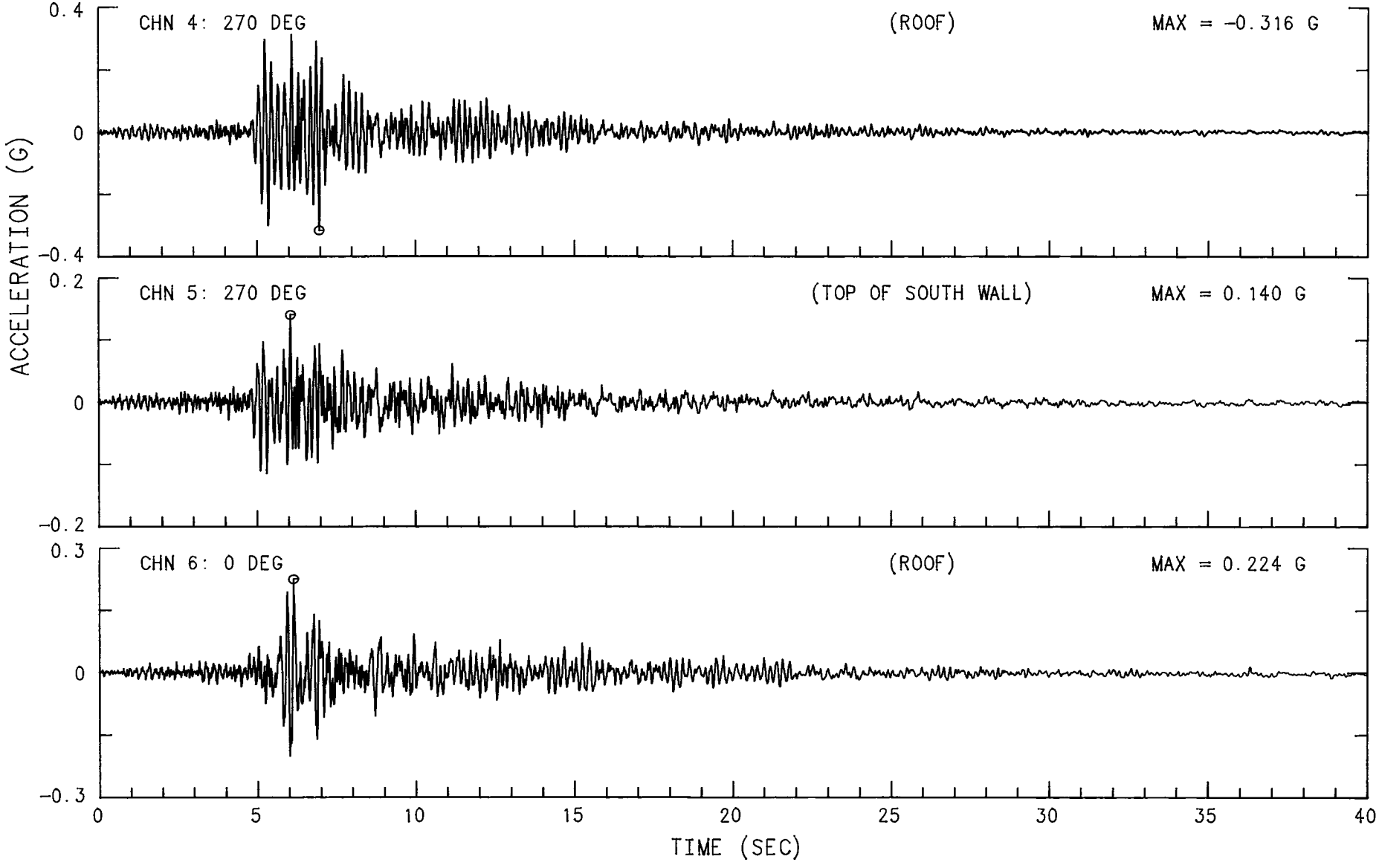
HEMET - CITY LIBRARY RECORD 12266-C0111-86190.01 PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT



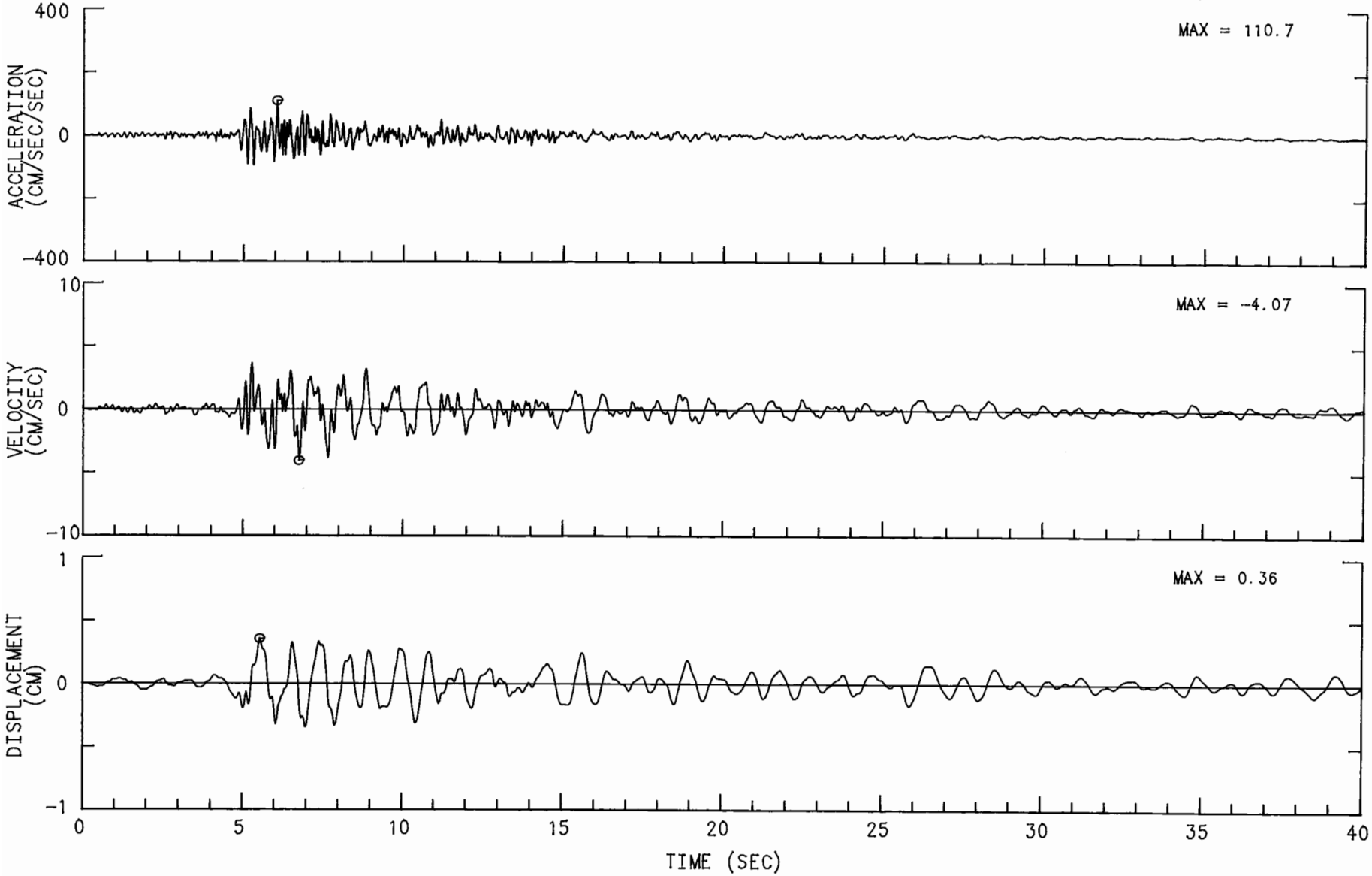
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY
UNCORRECTED ACCELEROGRAM 12266-C0111-86190.01 090187.1436-QP86A266



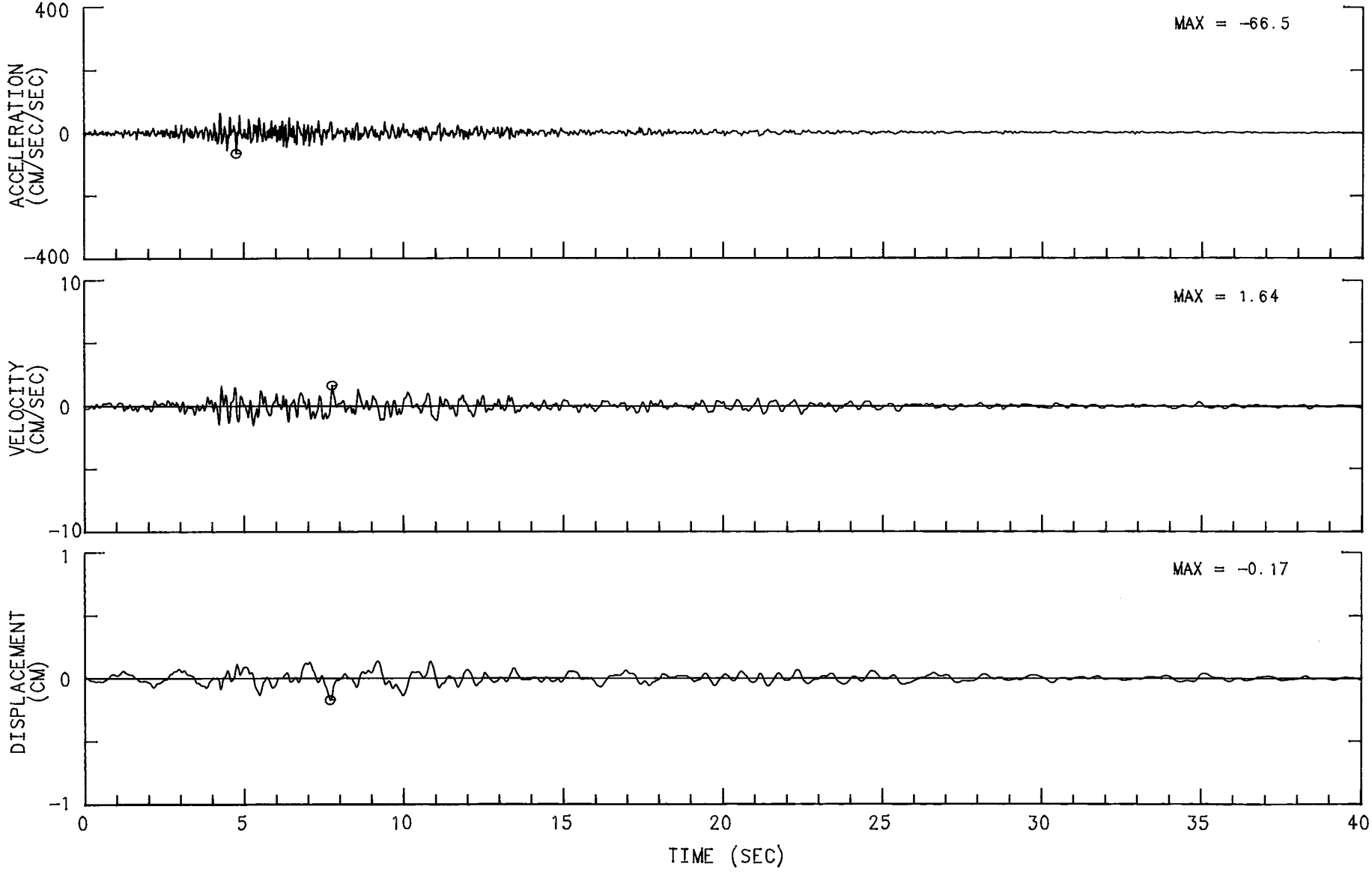
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY
UNCORRECTED ACCELEROGRAM 12266-C0111-86190.01 090187.1436-QP86A266



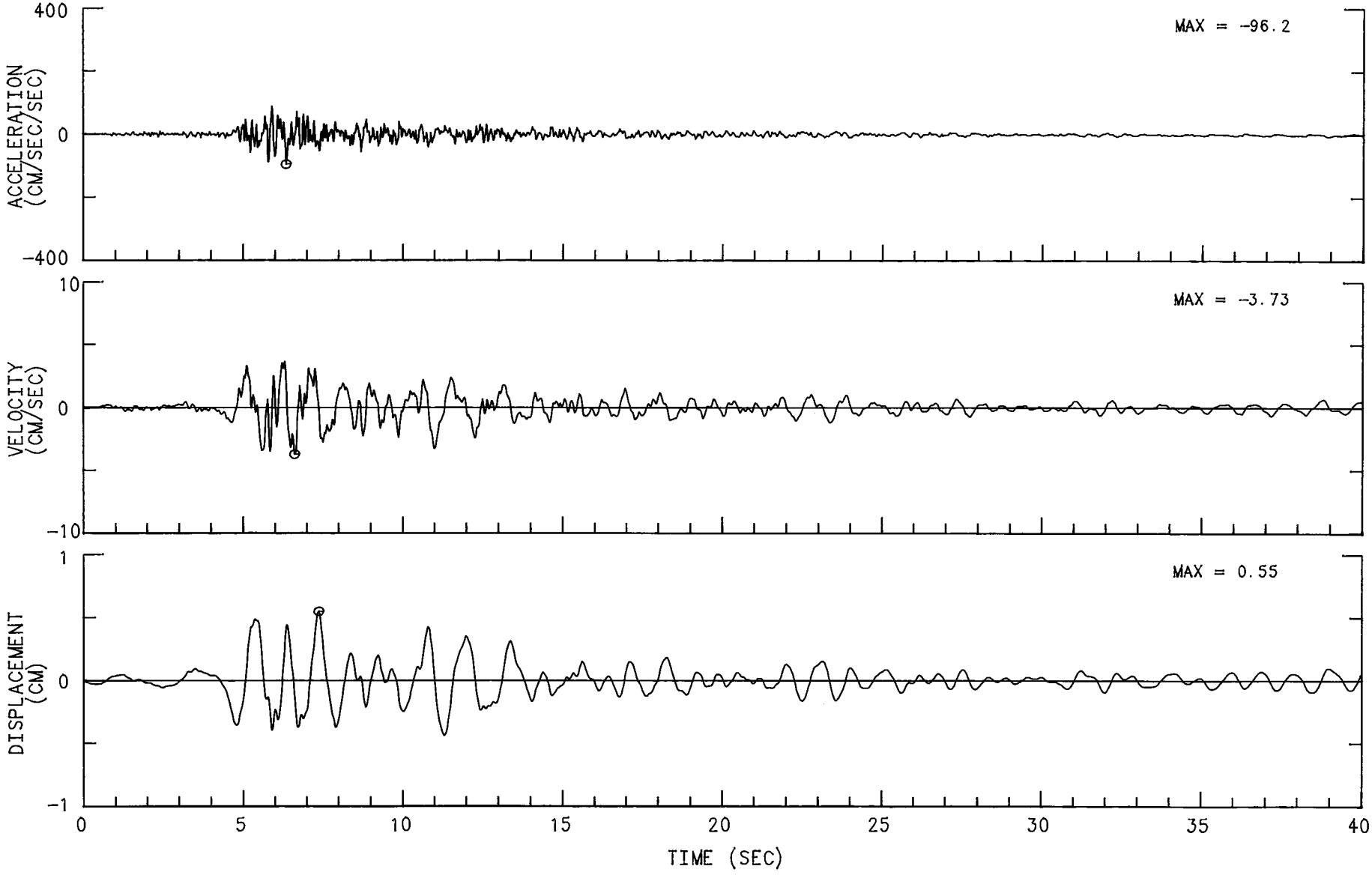
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY CHN 1: 270 DEG (GROUND FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .25-.50 TO 23.0-25.0 HZ. 12266-C0111-86190.01 090187.1515-QP86A266



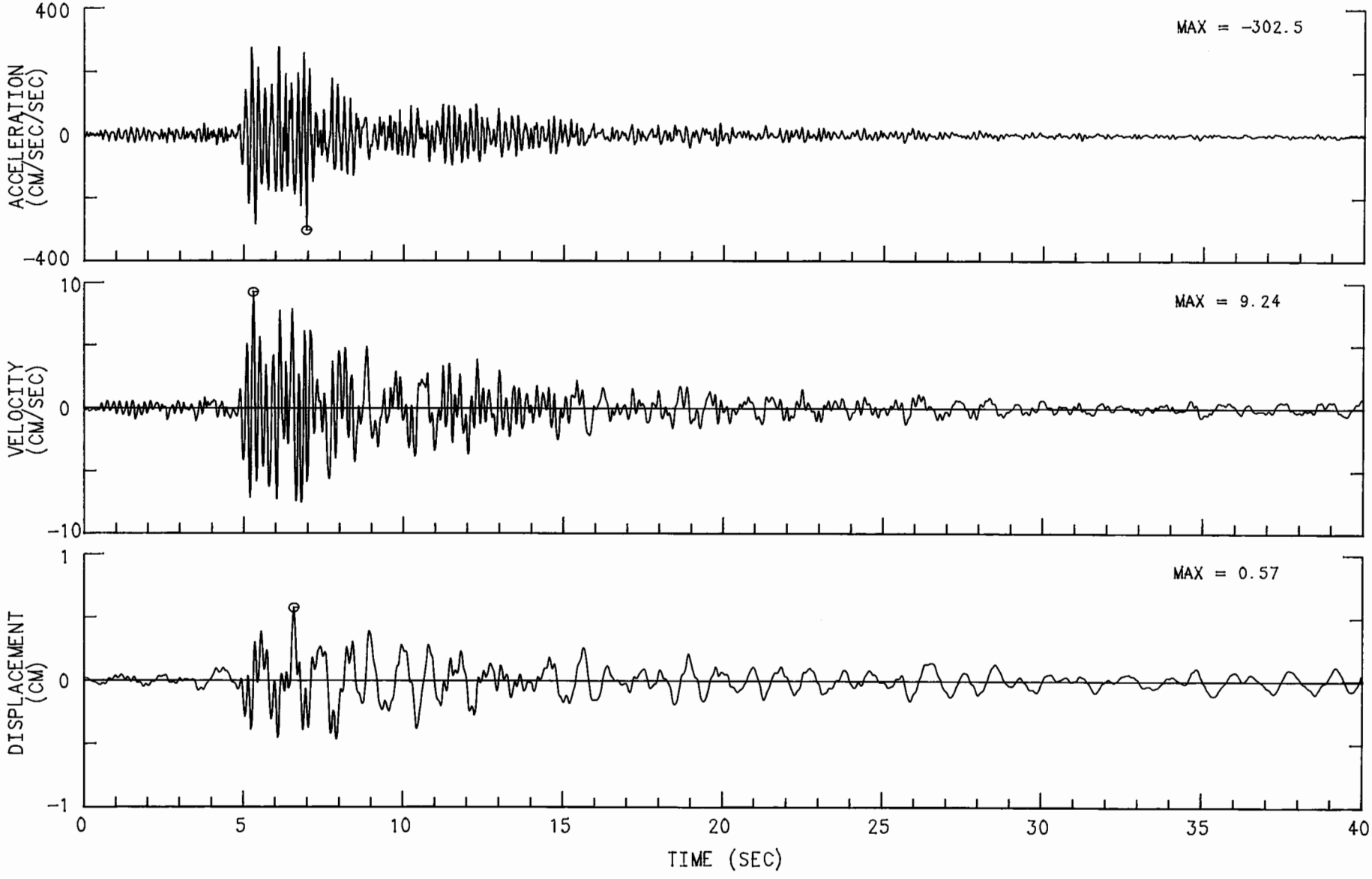
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY CHN 2: UP (GROUND FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .25-.50 TO 23.0-25.0 HZ. 12266-C0111-86190.01 090187.1515-QP86A266



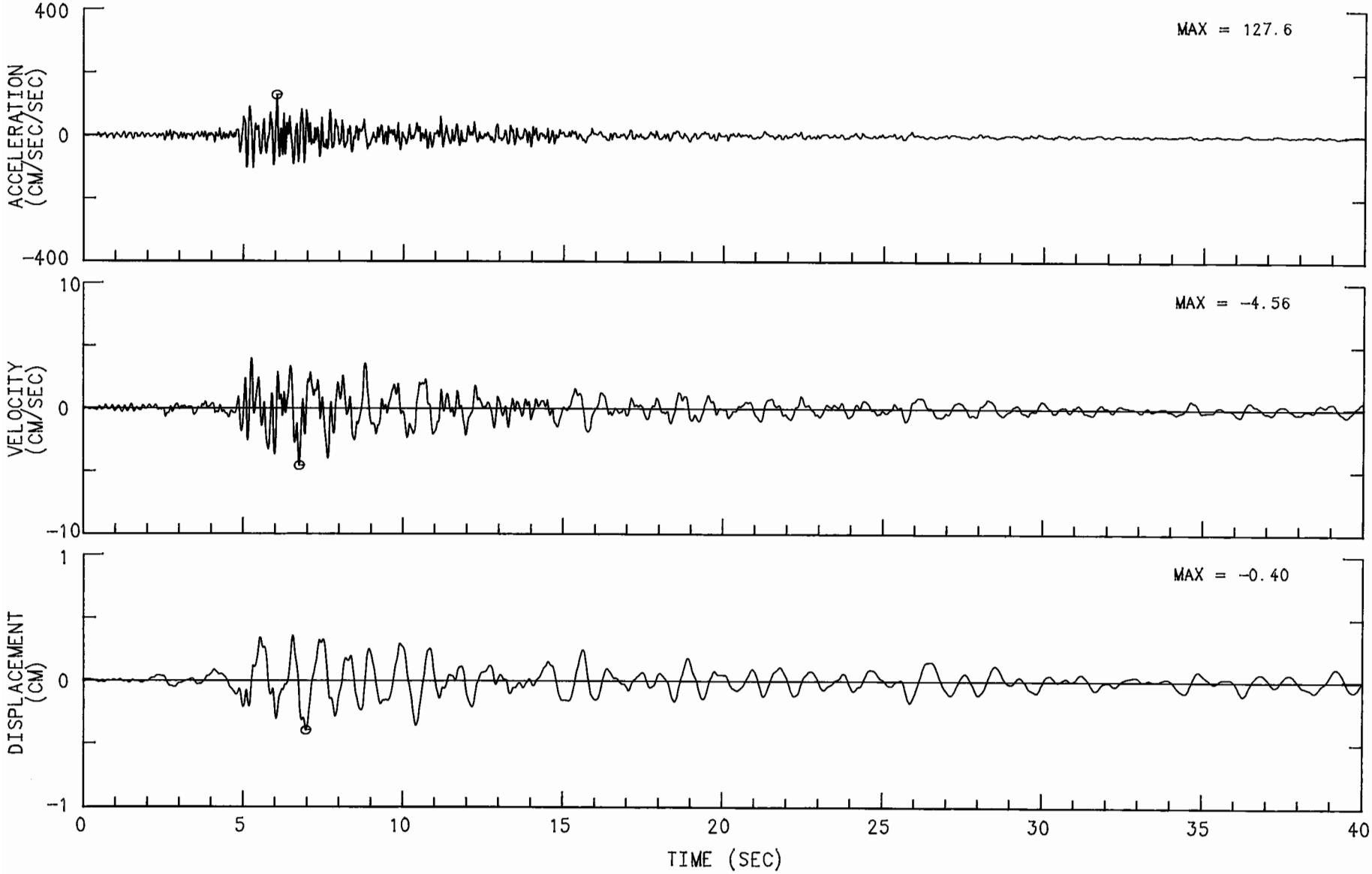
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY CHN 3: 0 DEG (GROUND FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .25-.50 TO 23.0-25.0 HZ. 12266-C0111-86190.01 090187.1515-QP86A266



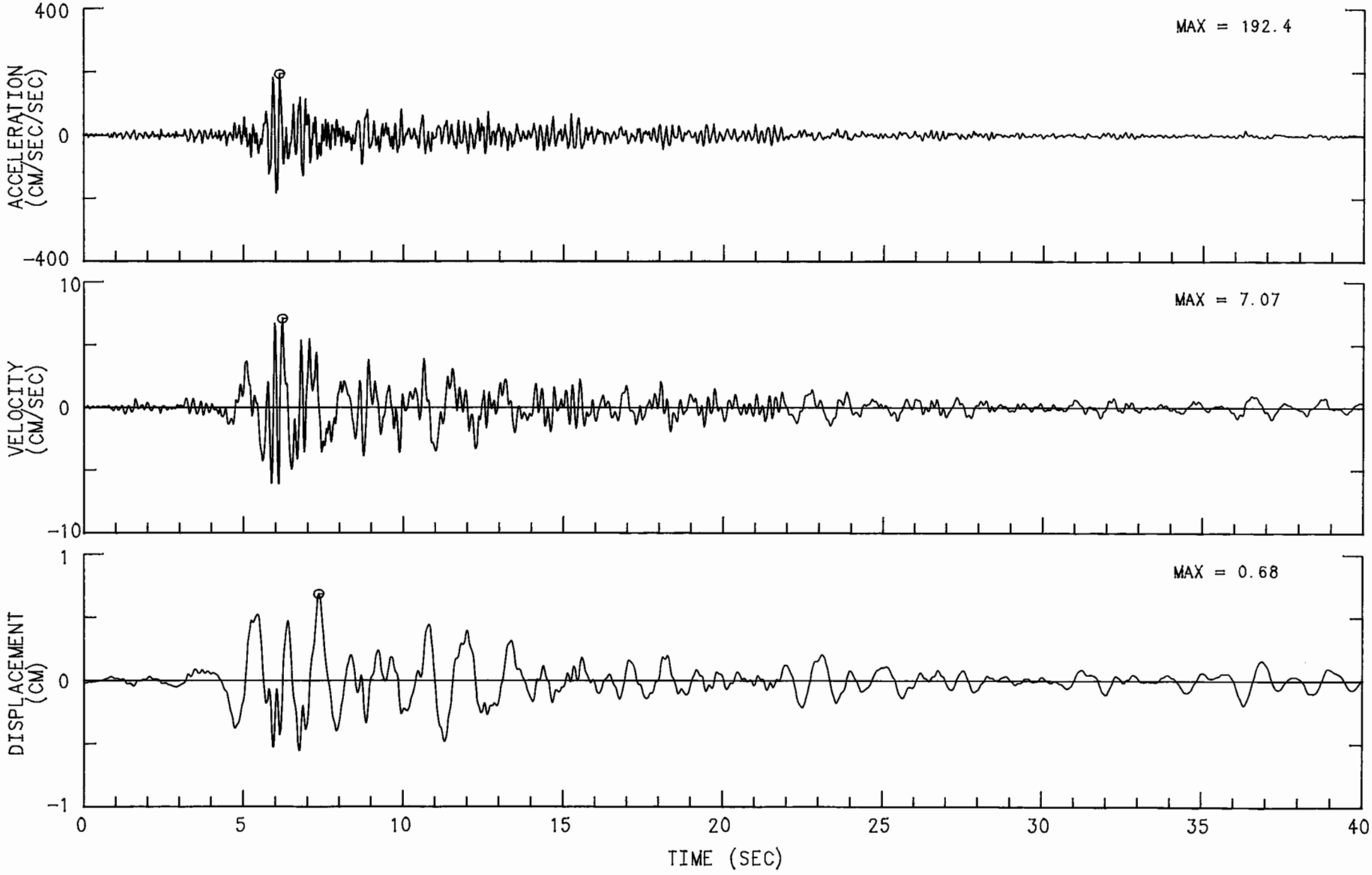
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY CHN 4: 270 DEG (ROOF)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .25-.50 TO 23.0-25.0 HZ. 12266-C0111-86190.01 090187.1515-QP86A266



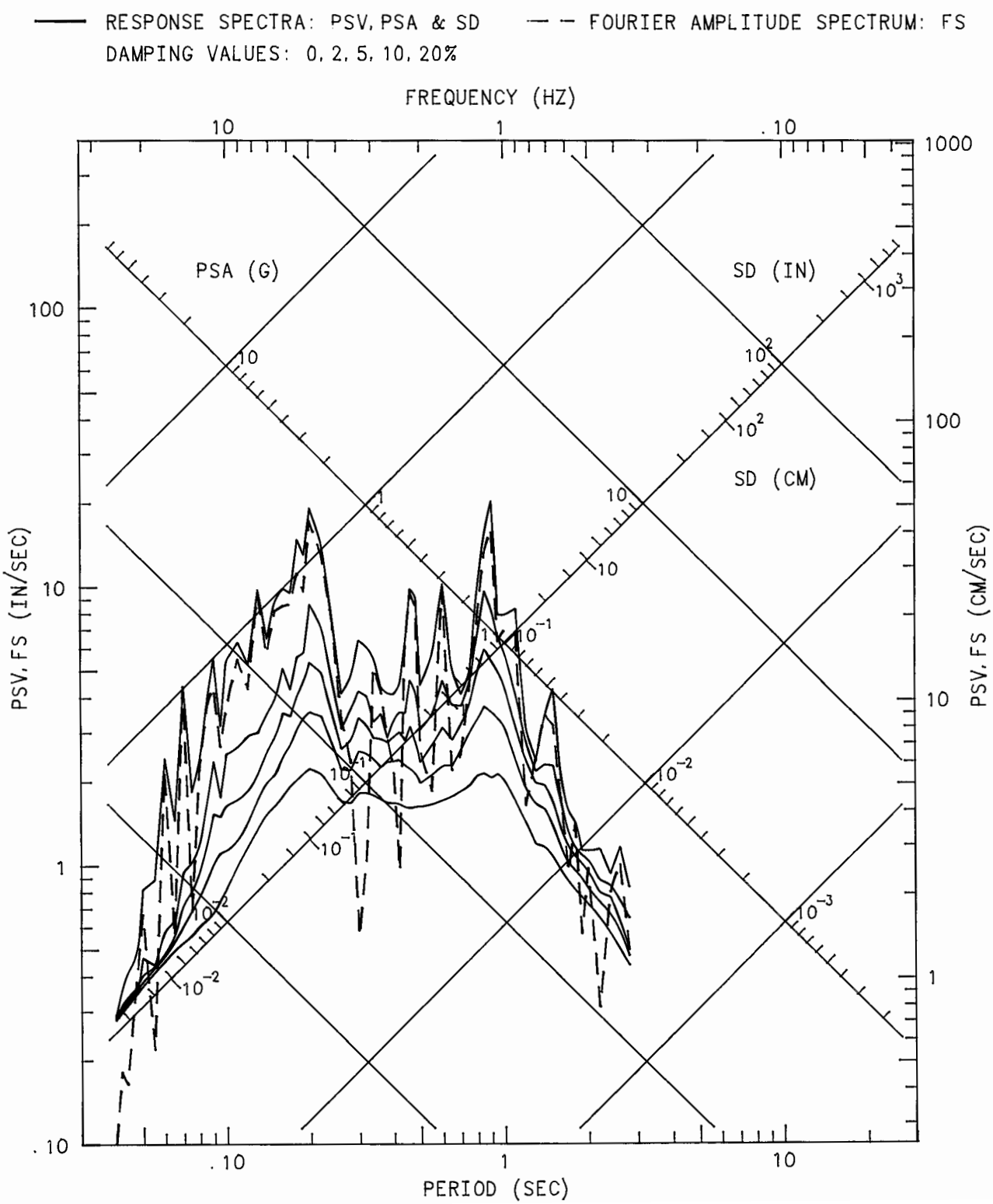
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY CHN 5: 270 DEG (TOP OF SOUTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .25-.50 TO 23.0-25.0 HZ. 12266-C0111-86190.01 090187.1515-QP86A266



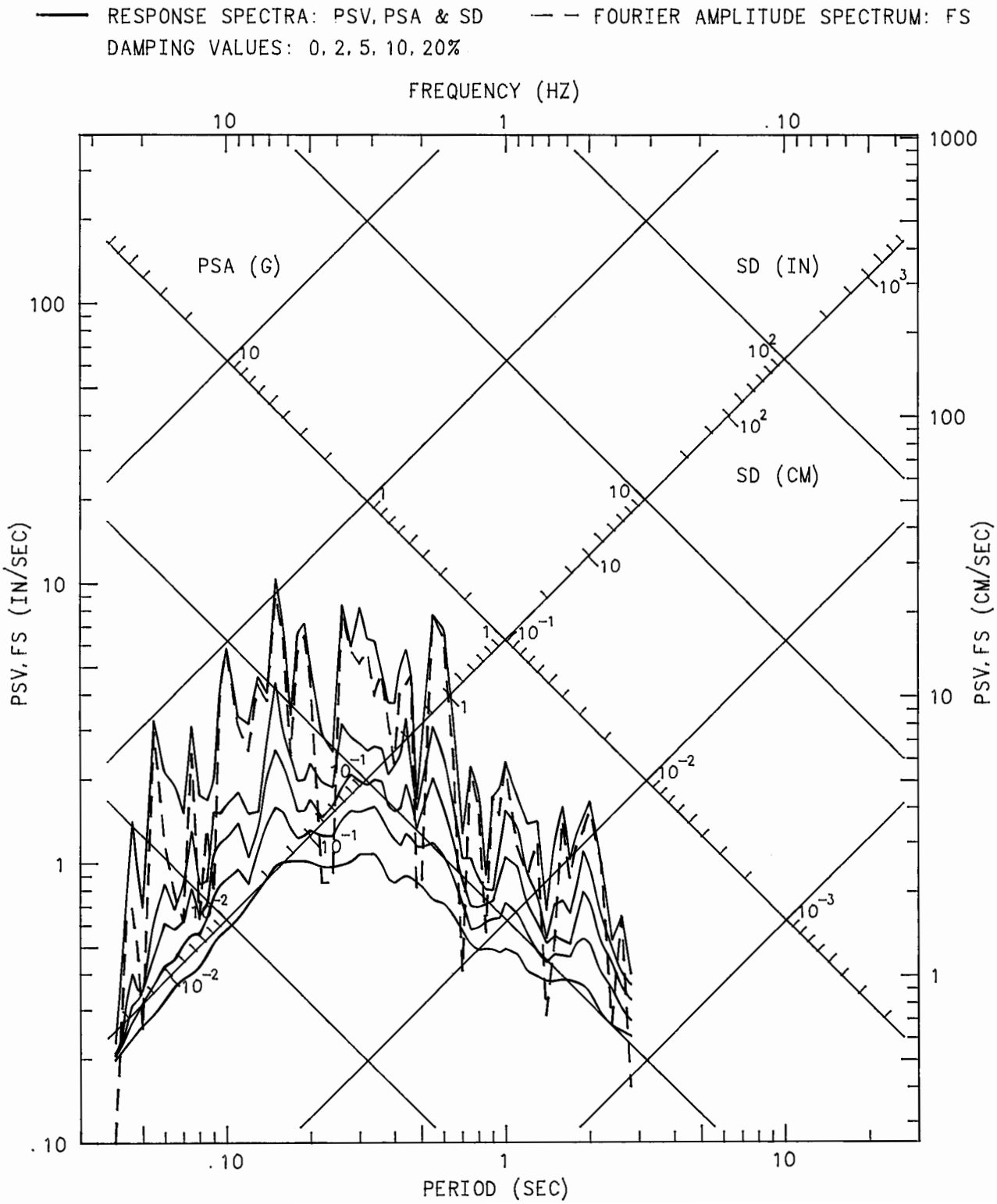
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY CHN 6: 0 DEG (ROOF)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .25-.50 TO 23.0-25.0 HZ. 12266-C0111-86190.01 090187.1515-QP86A266



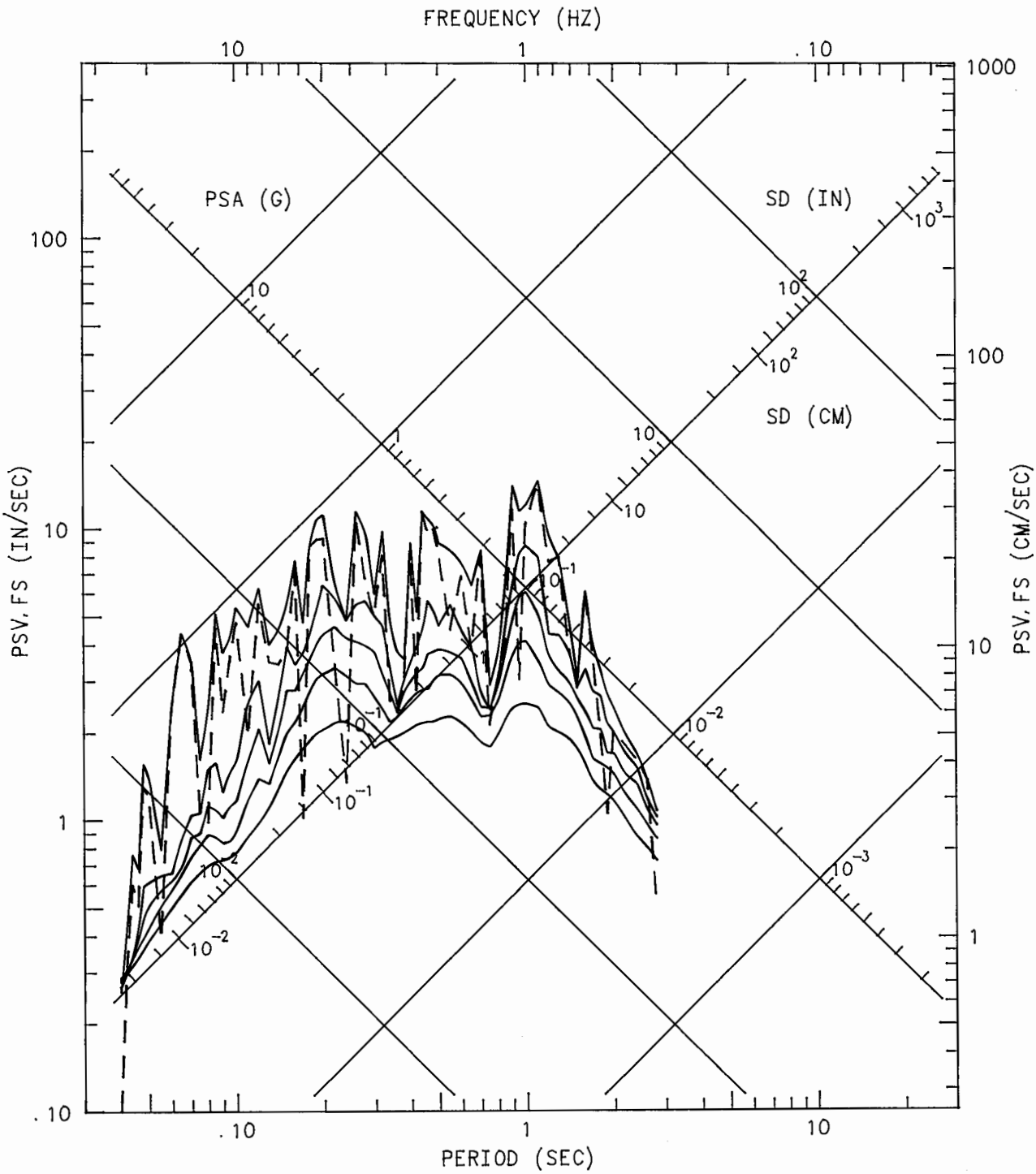
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY
CHN 1: 270 DEG (GROUND FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
12266-C0111-86190.01 090187.1539-QP86A266



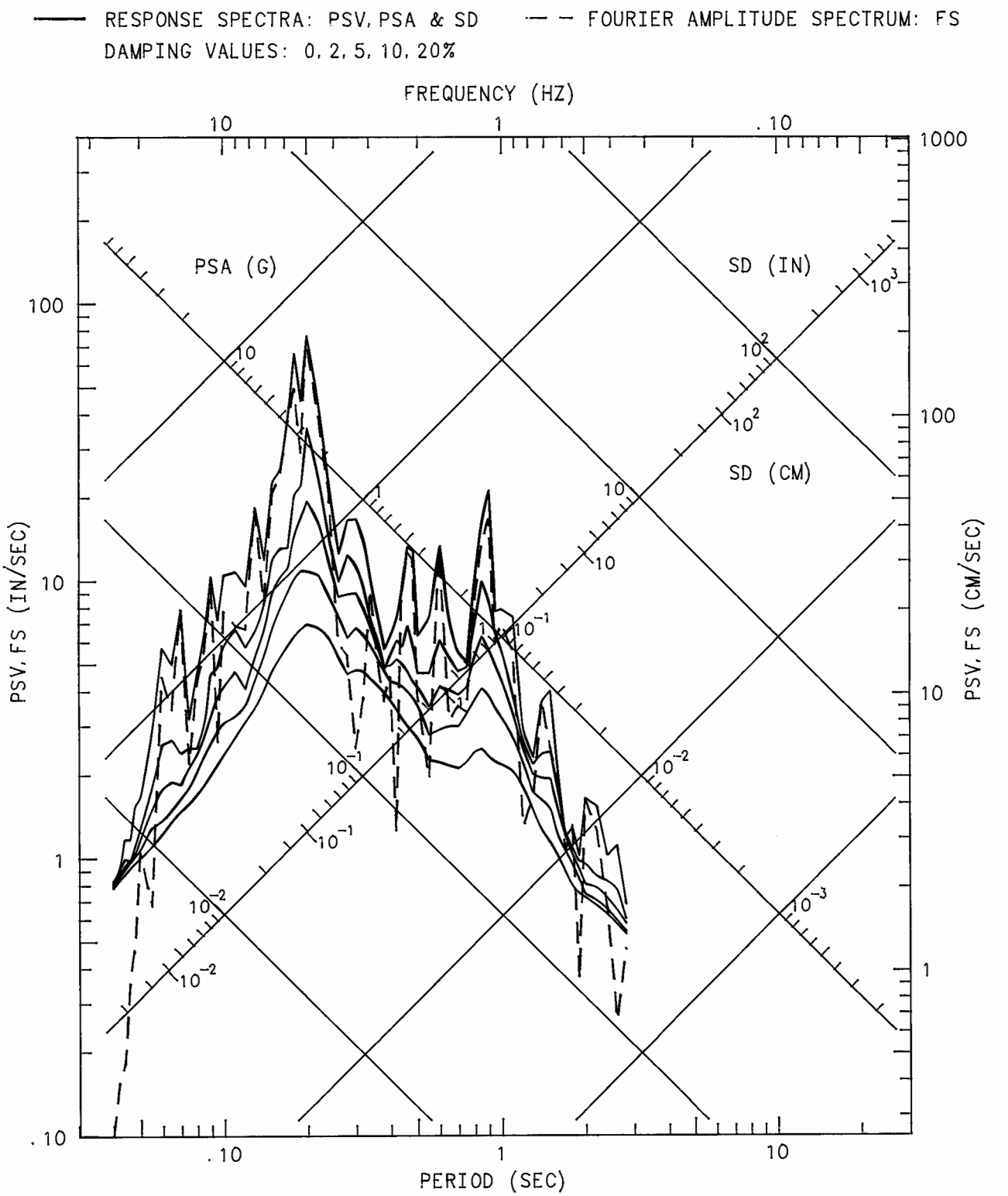
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY
CHN 2: UP (GROUND FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
12266-C0111-86190.01 090187.1539-QP86A266



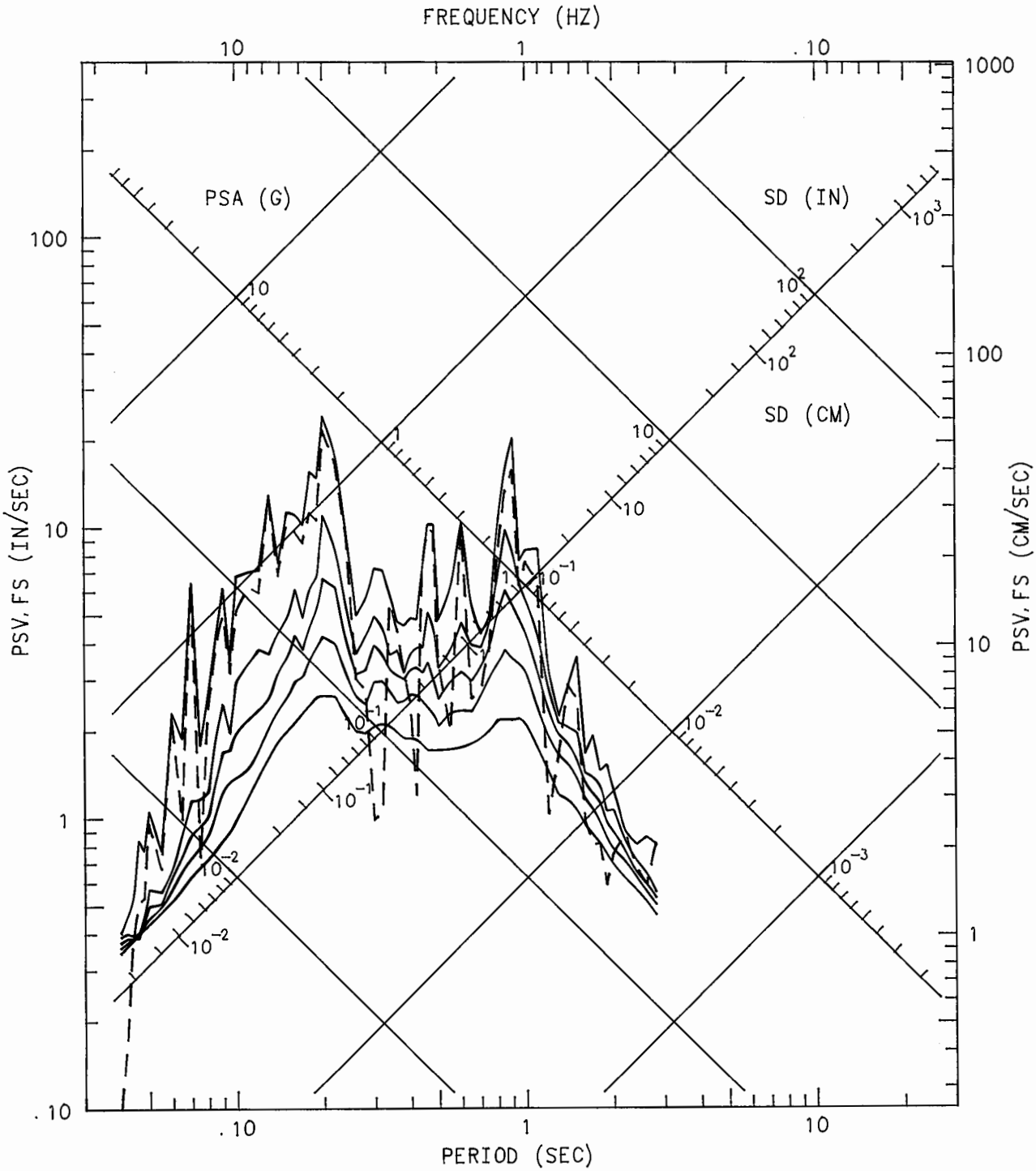
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY
CHN 3: 0 DEG (GROUND FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
12266-C0111-86190.01 090187.1539-QP86A266



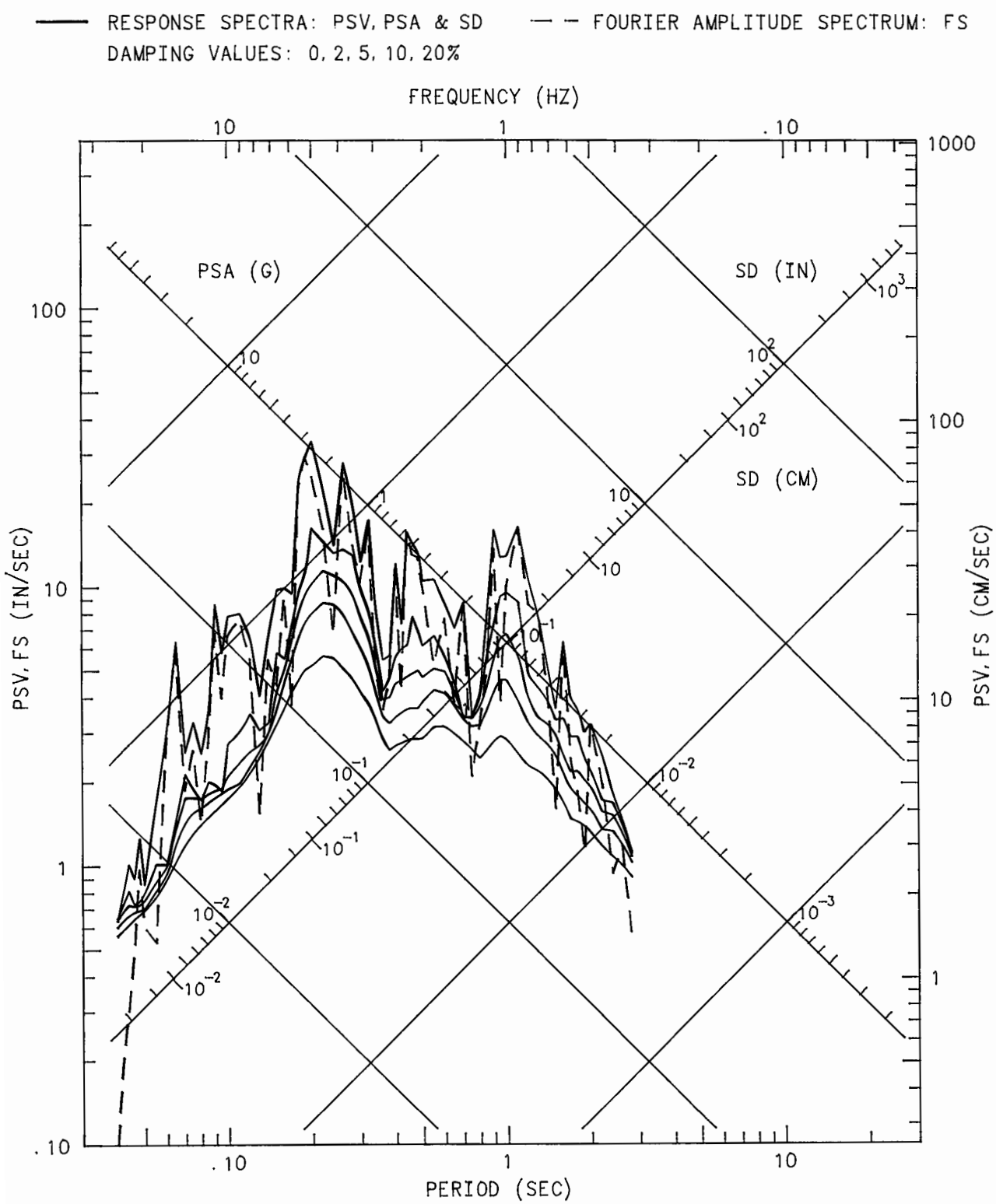
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY
CHN 4: 270 DEG (ROOF)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
12266-C0111-86190.01 090187.1539-QP86A266



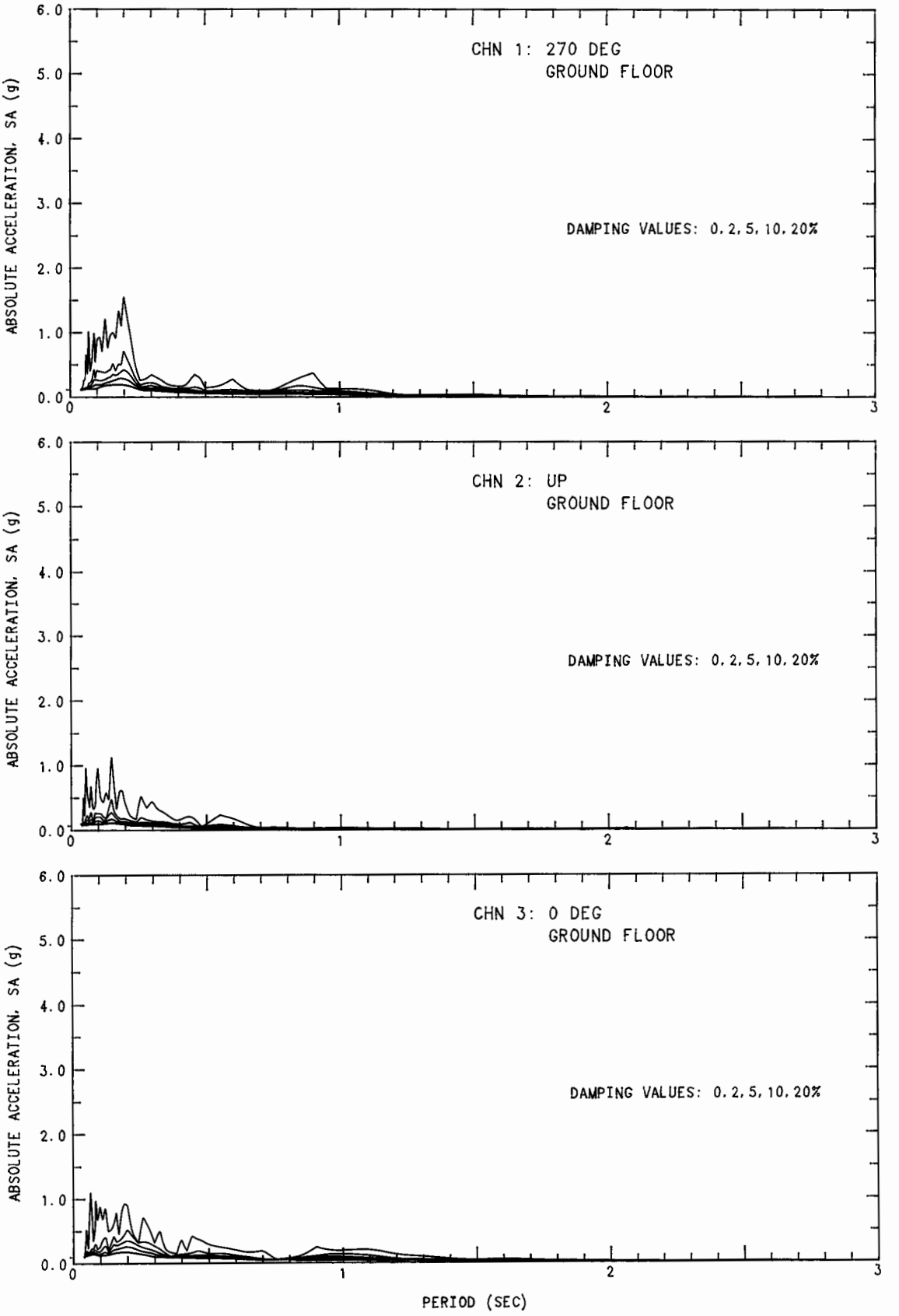
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY
CHN 5: 270 DEG (TOP OF SOUTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
12266-C0111-86190.01 090187.1539-QP86A266



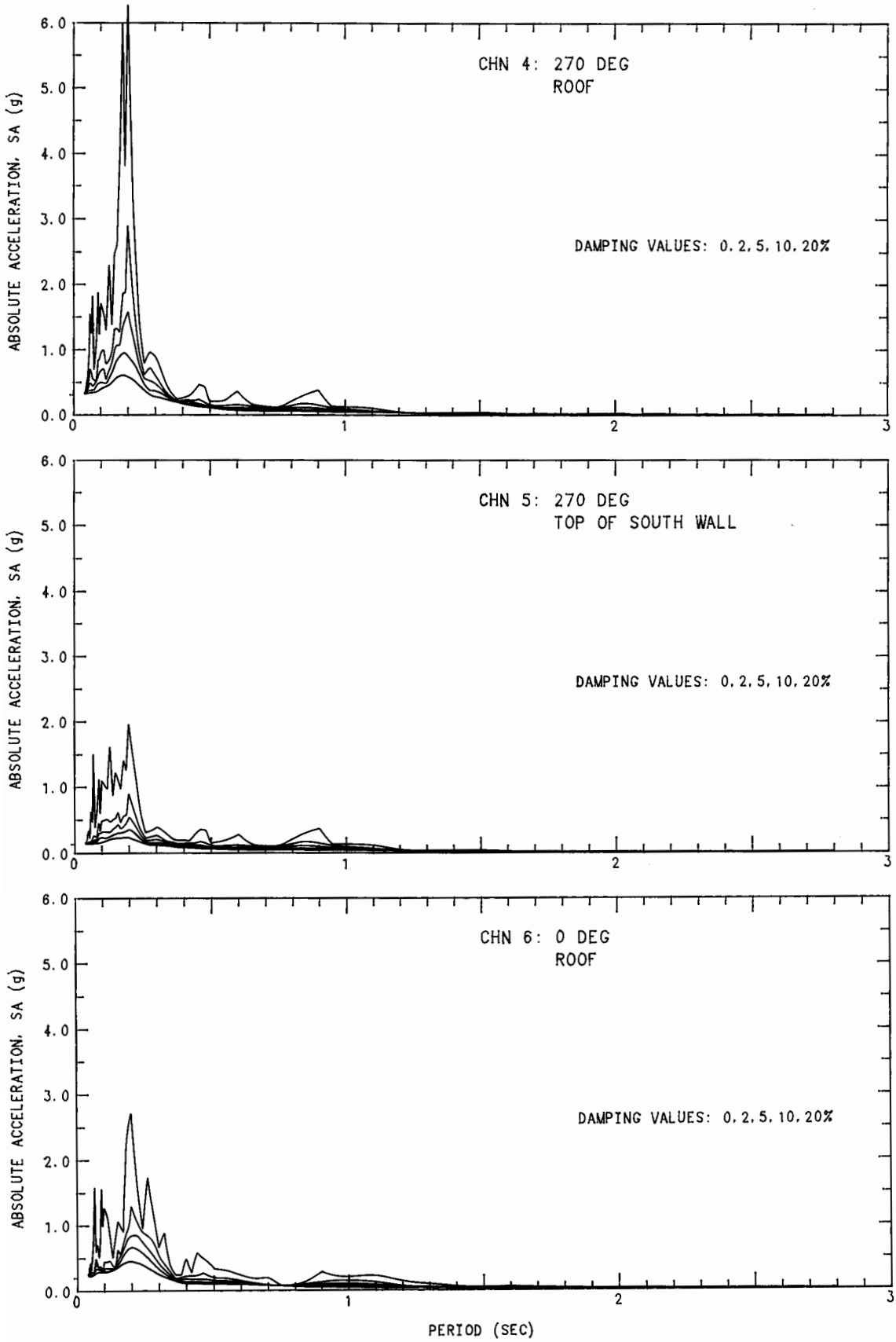
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY
CHN 6: 0 DEG (ROOF)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
12266-C0111-86190.01 090187.1539-QP86A266



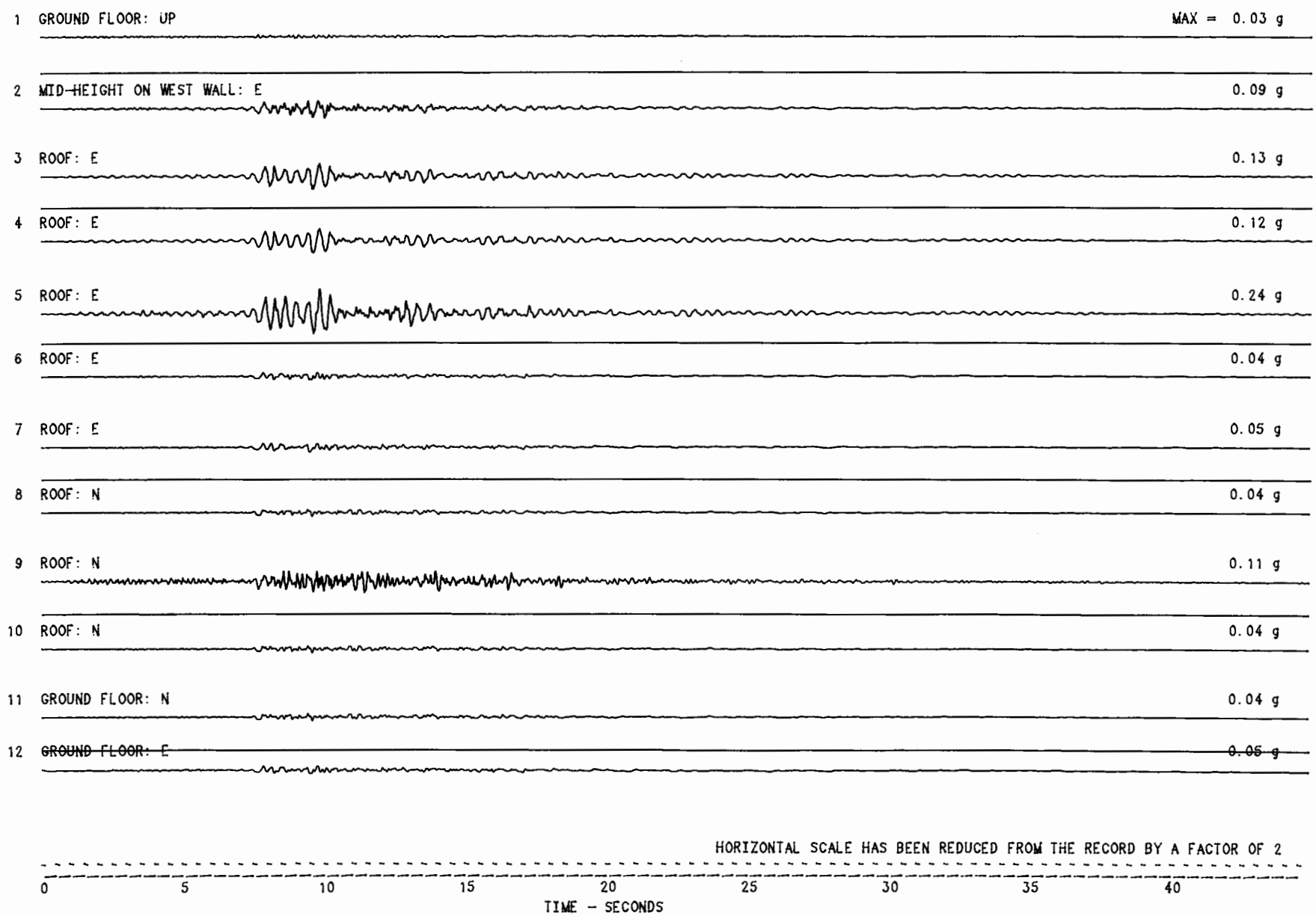
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
12266-C0111-86190.01 090187.1539-QP86A266



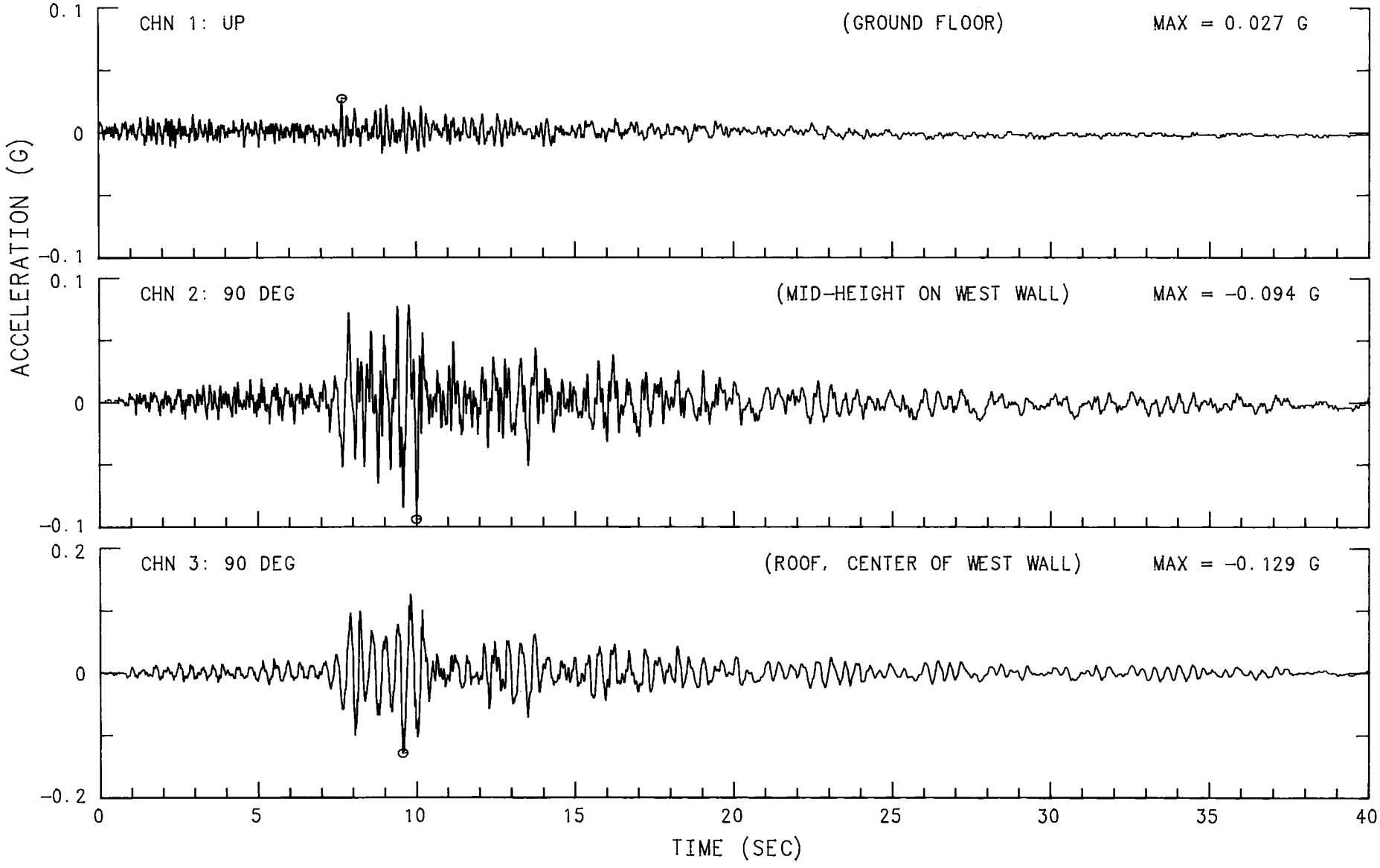
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
HEMET - CITY LIBRARY
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
12266-C0111-86190.01 090187.1539-QP86A266



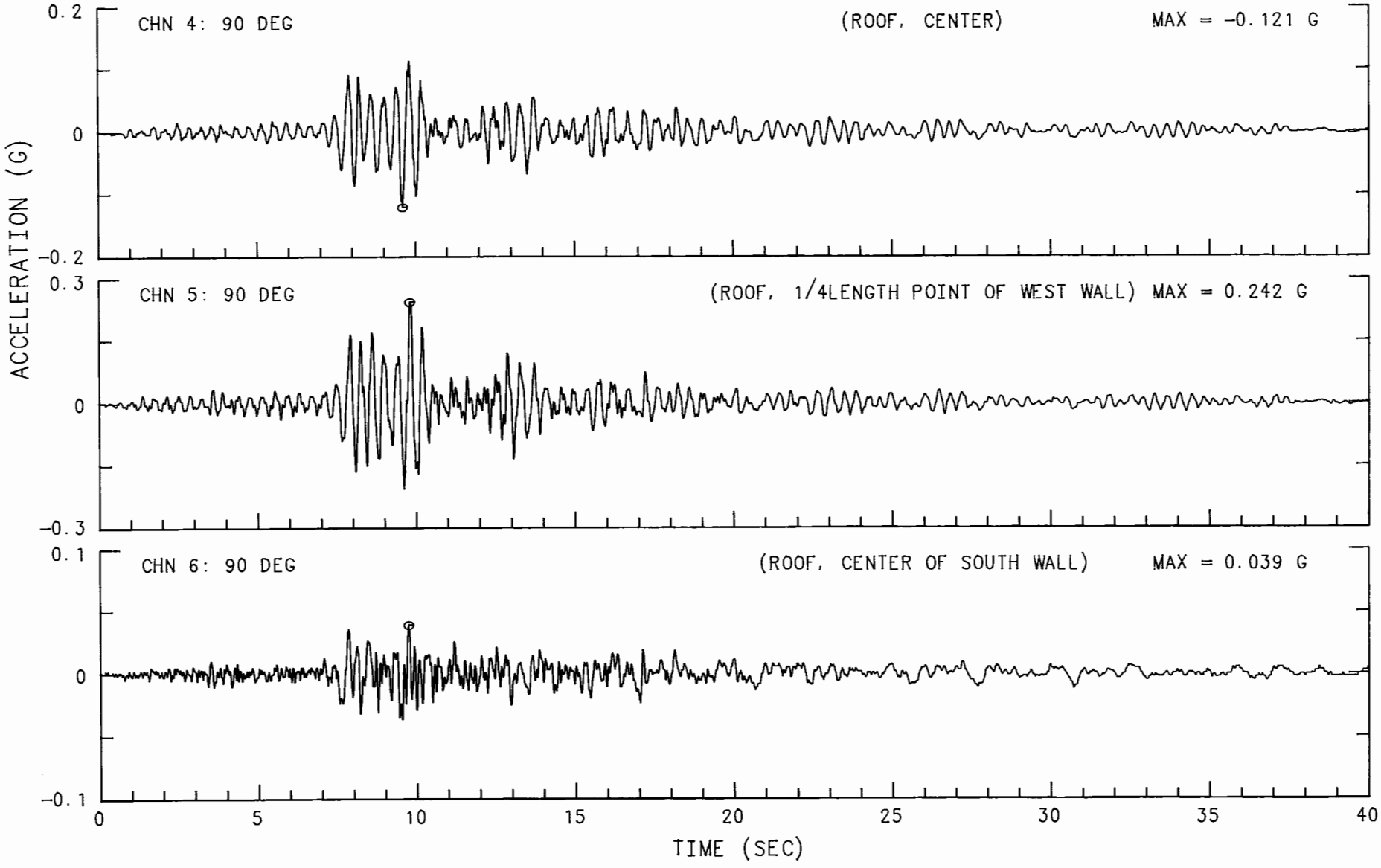
REDLANDS - INTERSTATE VAN LINES RECORD 23495-C0115-86189.01 PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT



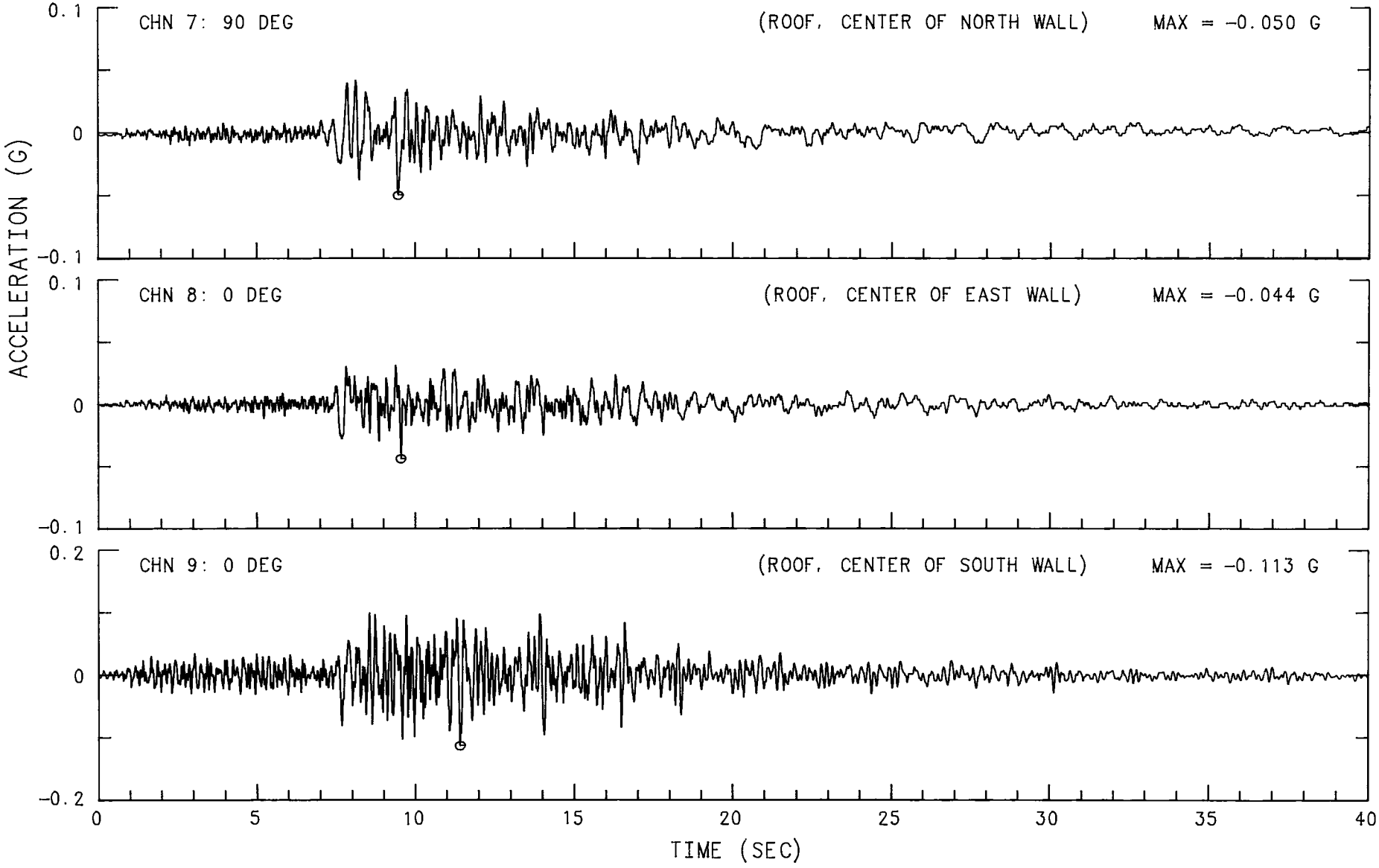
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
UNCORRECTED ACCELEROGRAM 23495-C0115-86189.01 051287.1432-QP86A495B



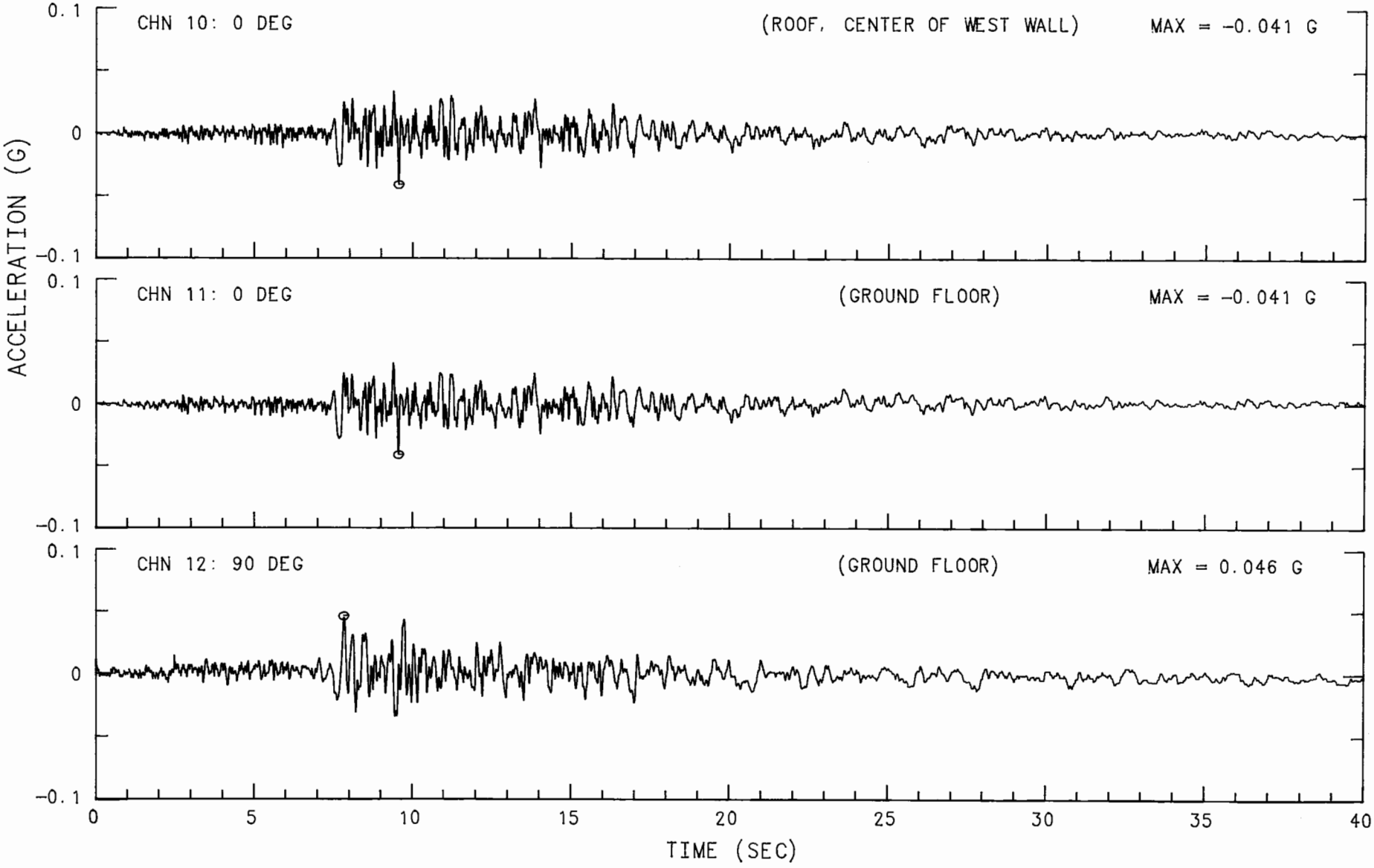
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
UNCORRECTED ACCELEROGRAM 23495-C0115-86189.01 051287.1432-QP86A495B



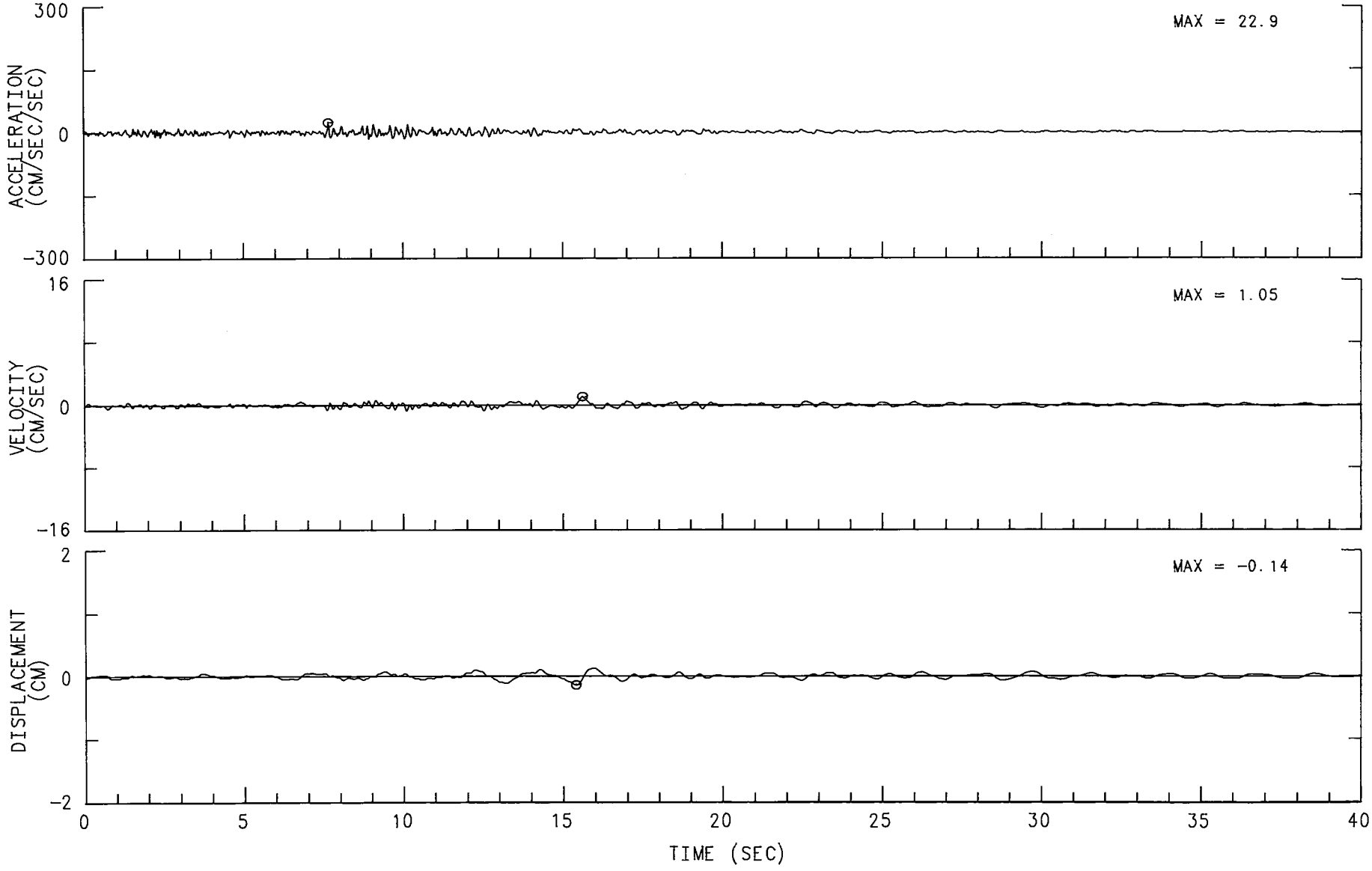
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
UNCORRECTED ACCELEROGRAM 23495-C0115-86189.01 051287.1432-QP86A495B



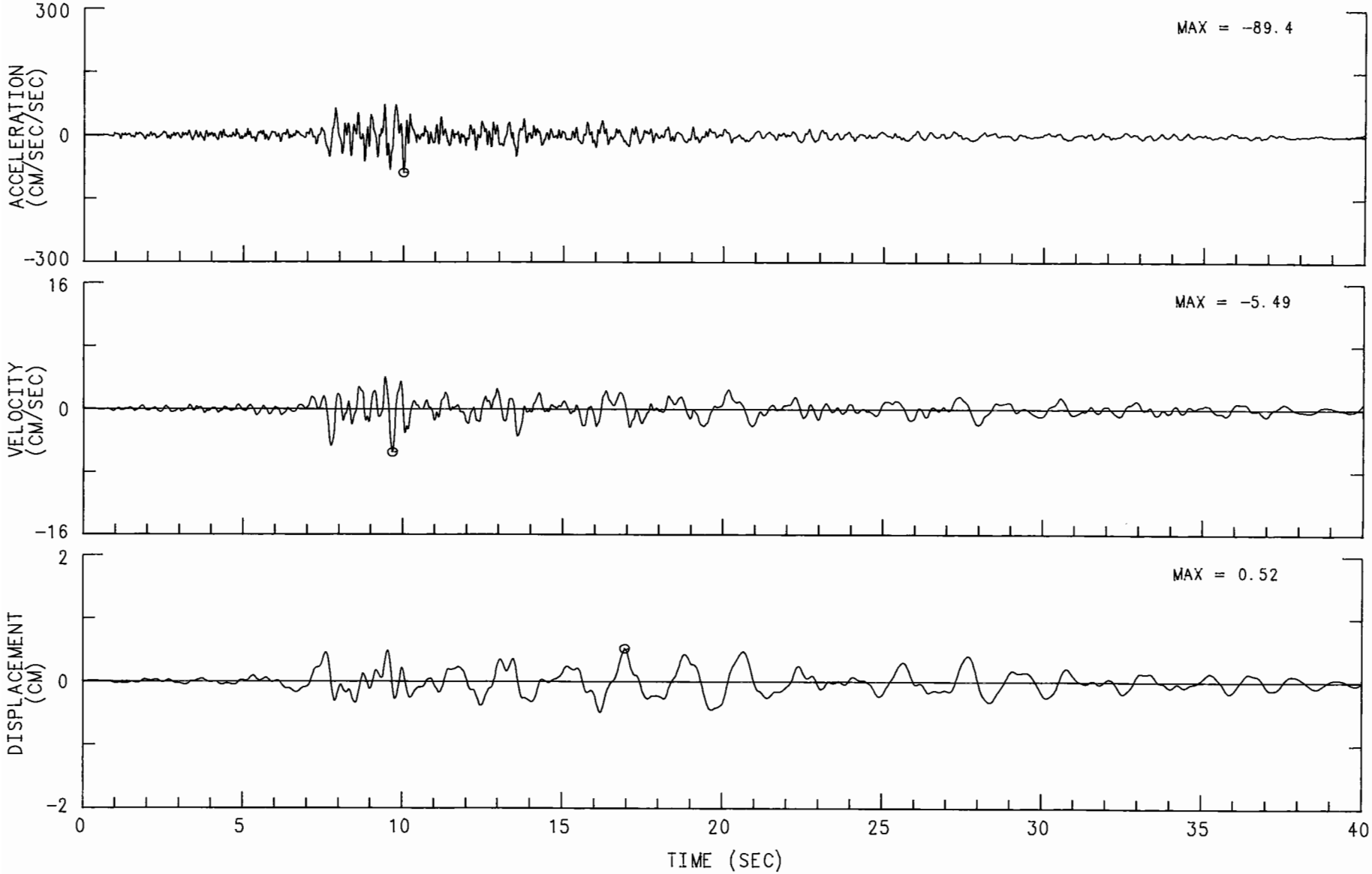
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
UNCORRECTED ACCELEROGRAM 23495-C0115-86189.01 051287.1432-QP86A495B



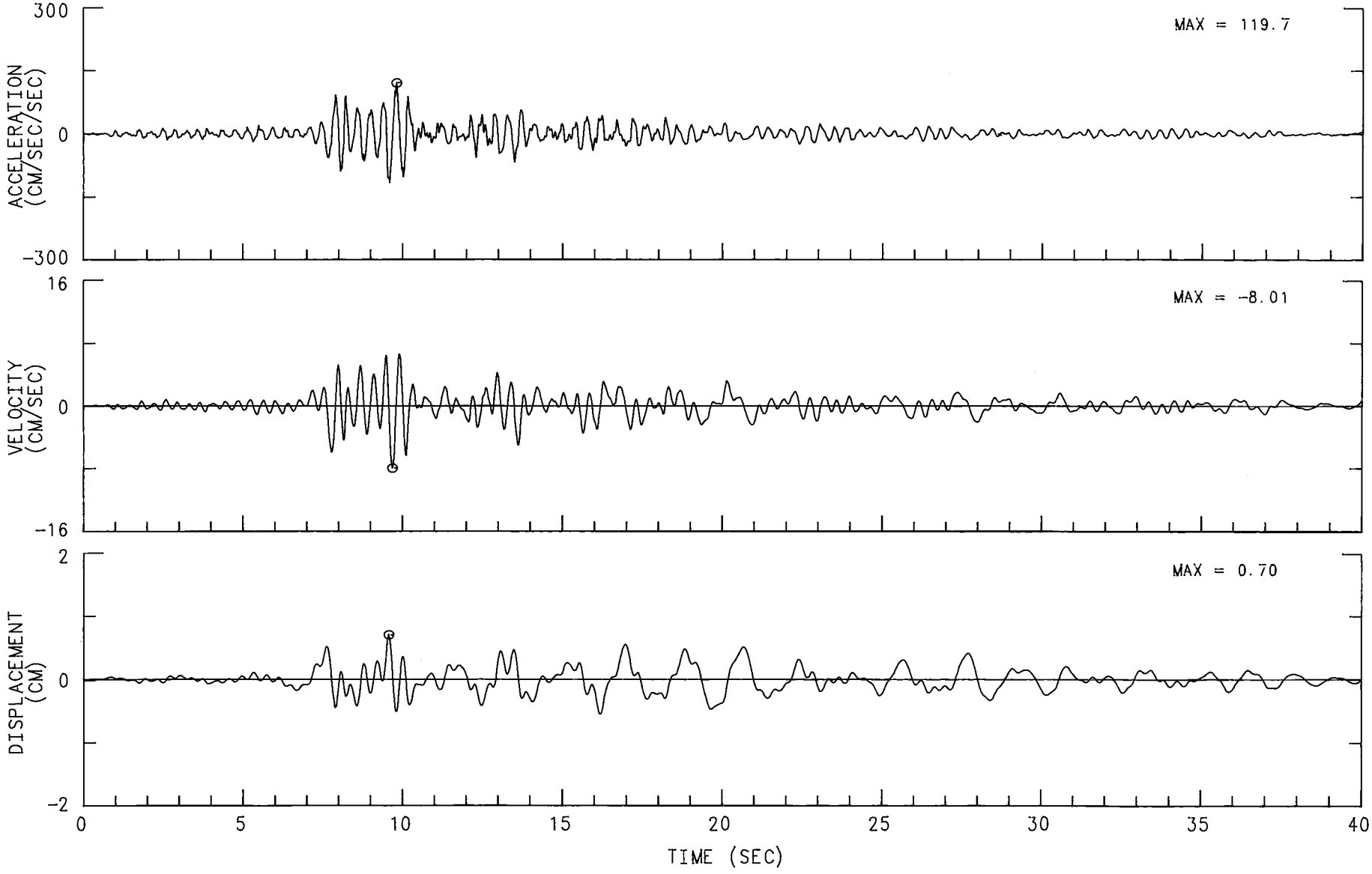
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 1: UP (GROUND FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B



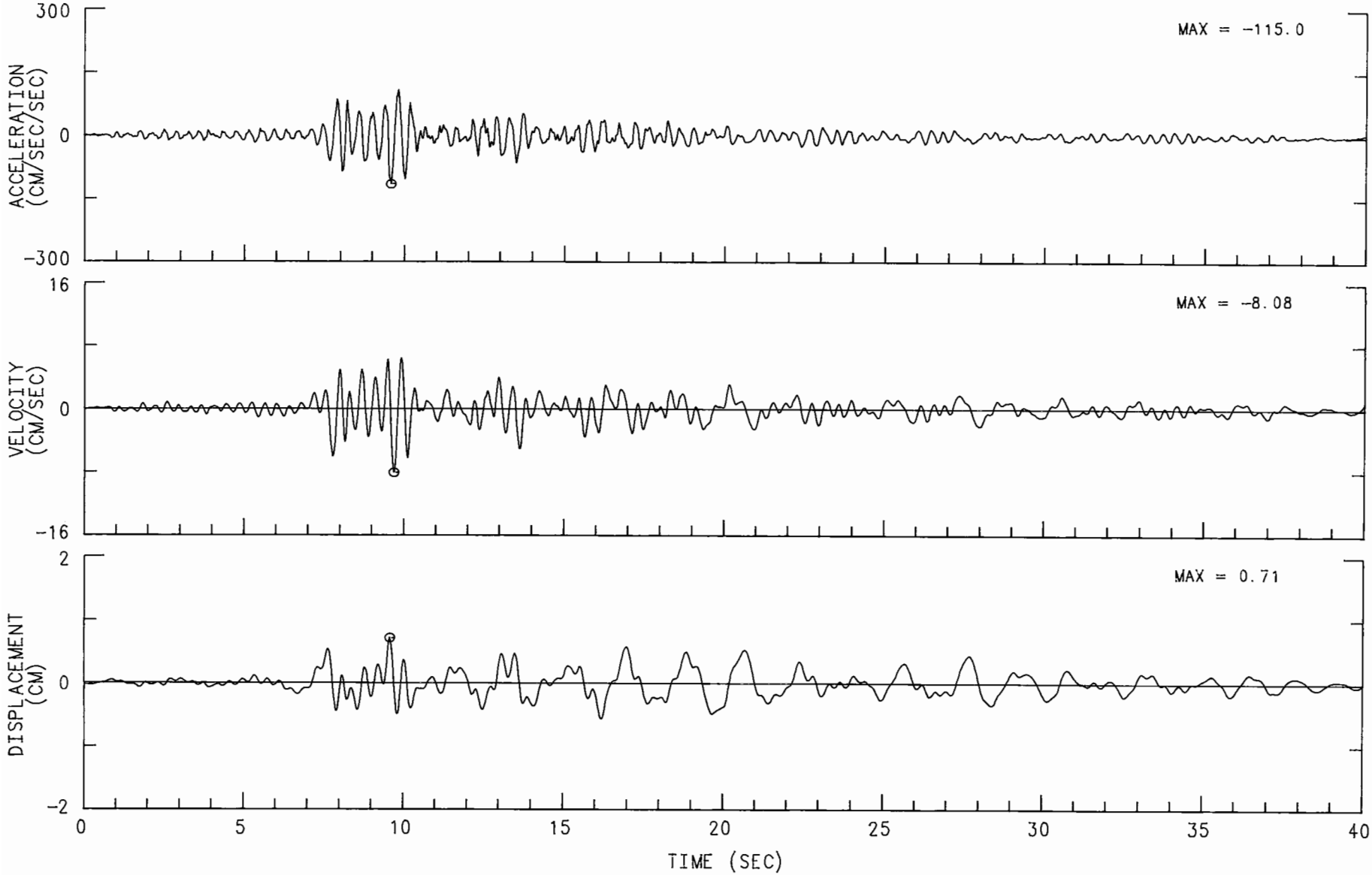
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 2: 90 DEG (MID-HEIGHT ON WEST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B



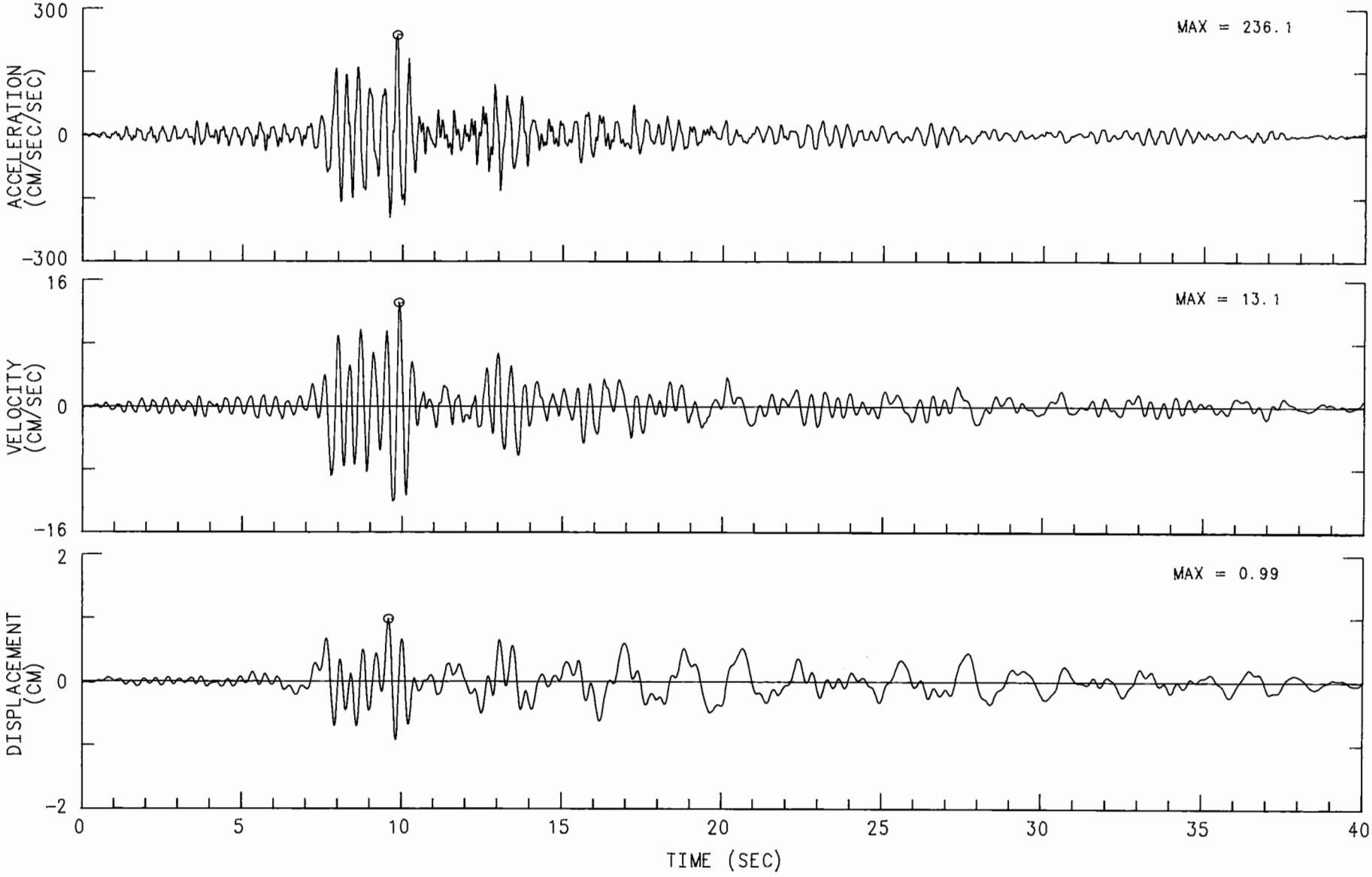
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 3: 90 DEG (ROOF, CENTER OF WEST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B



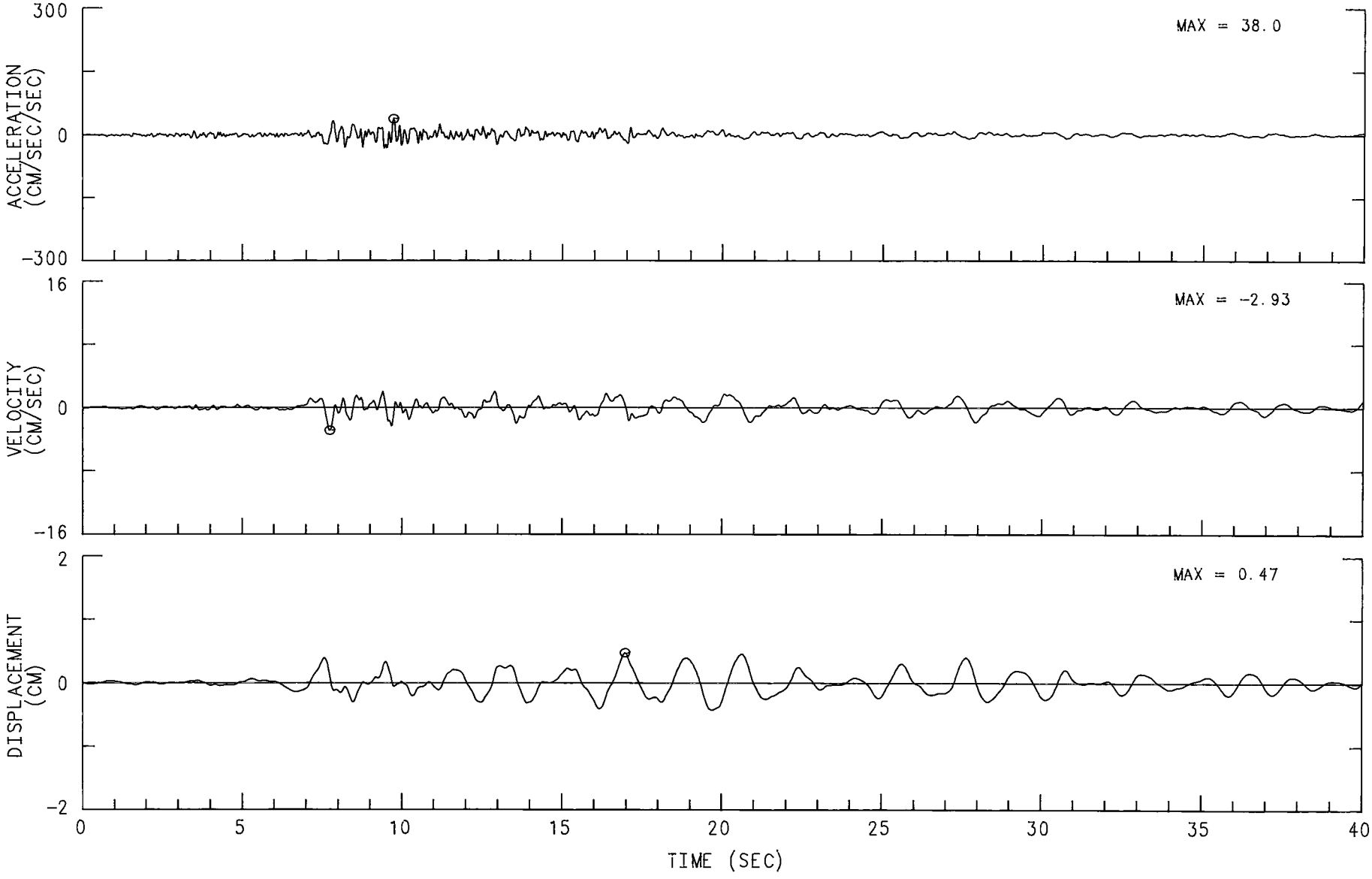
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 4: 90 DEG (ROOF, CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B



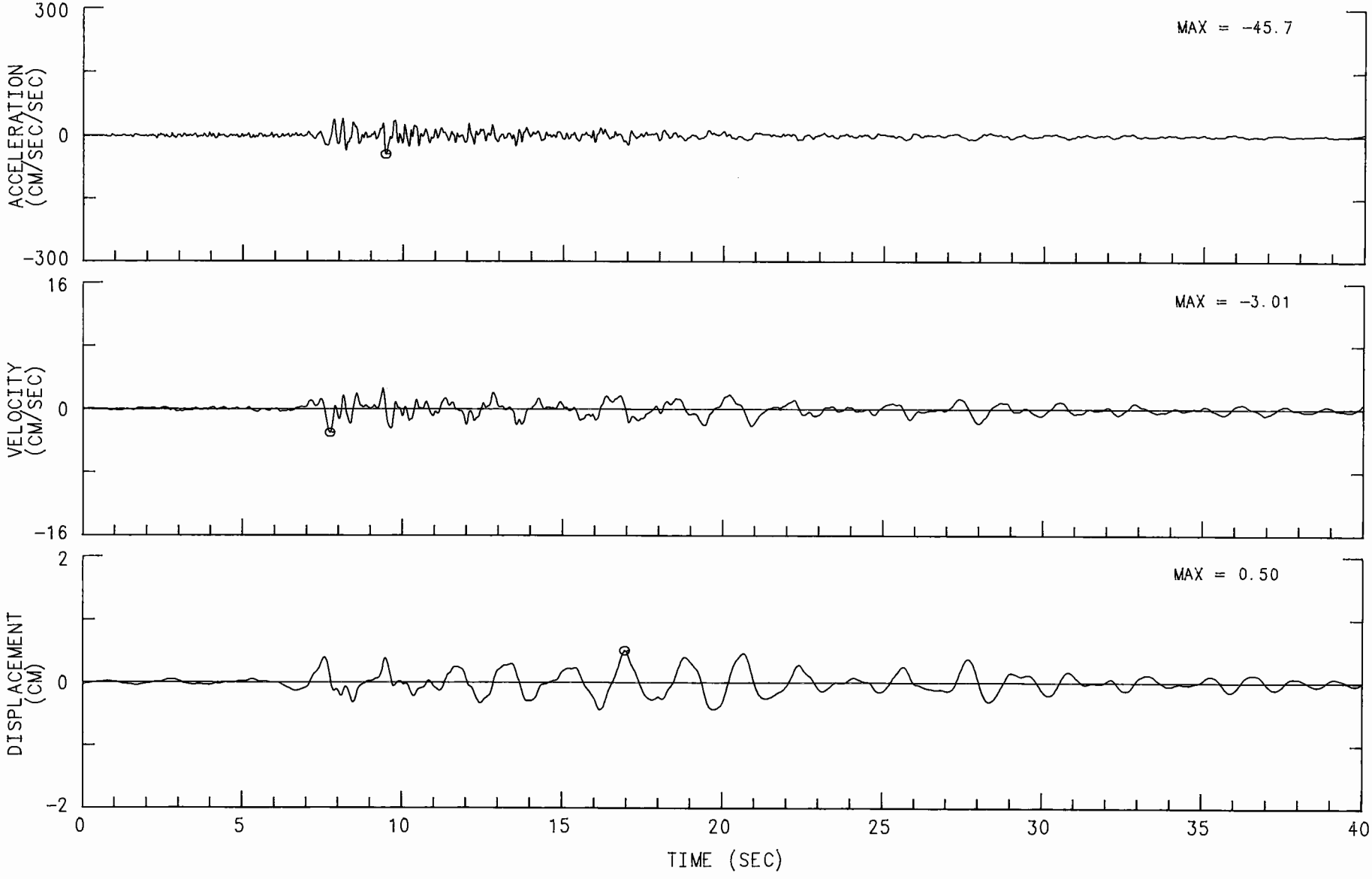
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 5: 90 DEG (ROOF, 1/4LENGTH POINT OF WEST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B



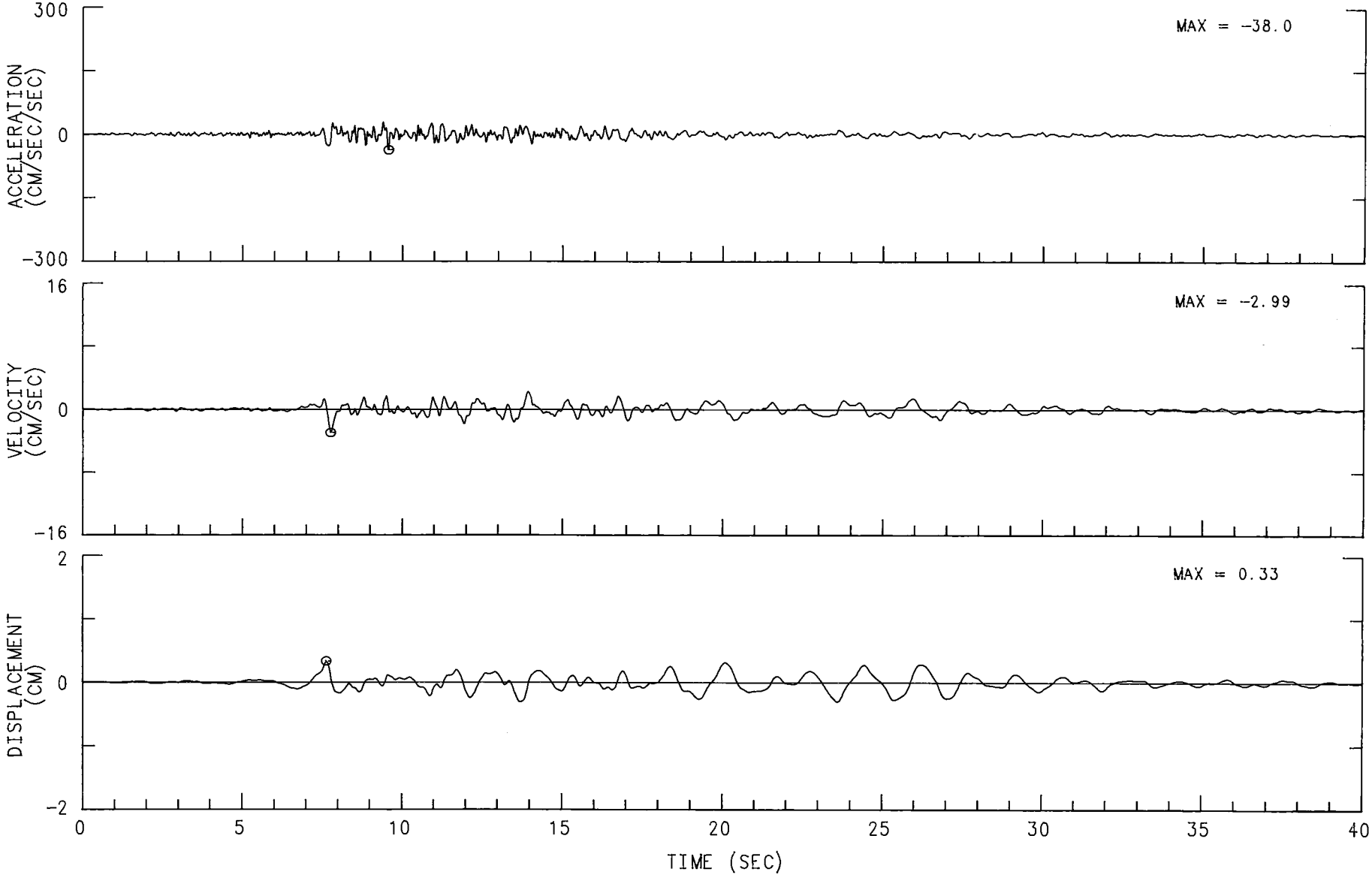
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 6: 90 DEG (ROOF, CENTER OF SOUTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B



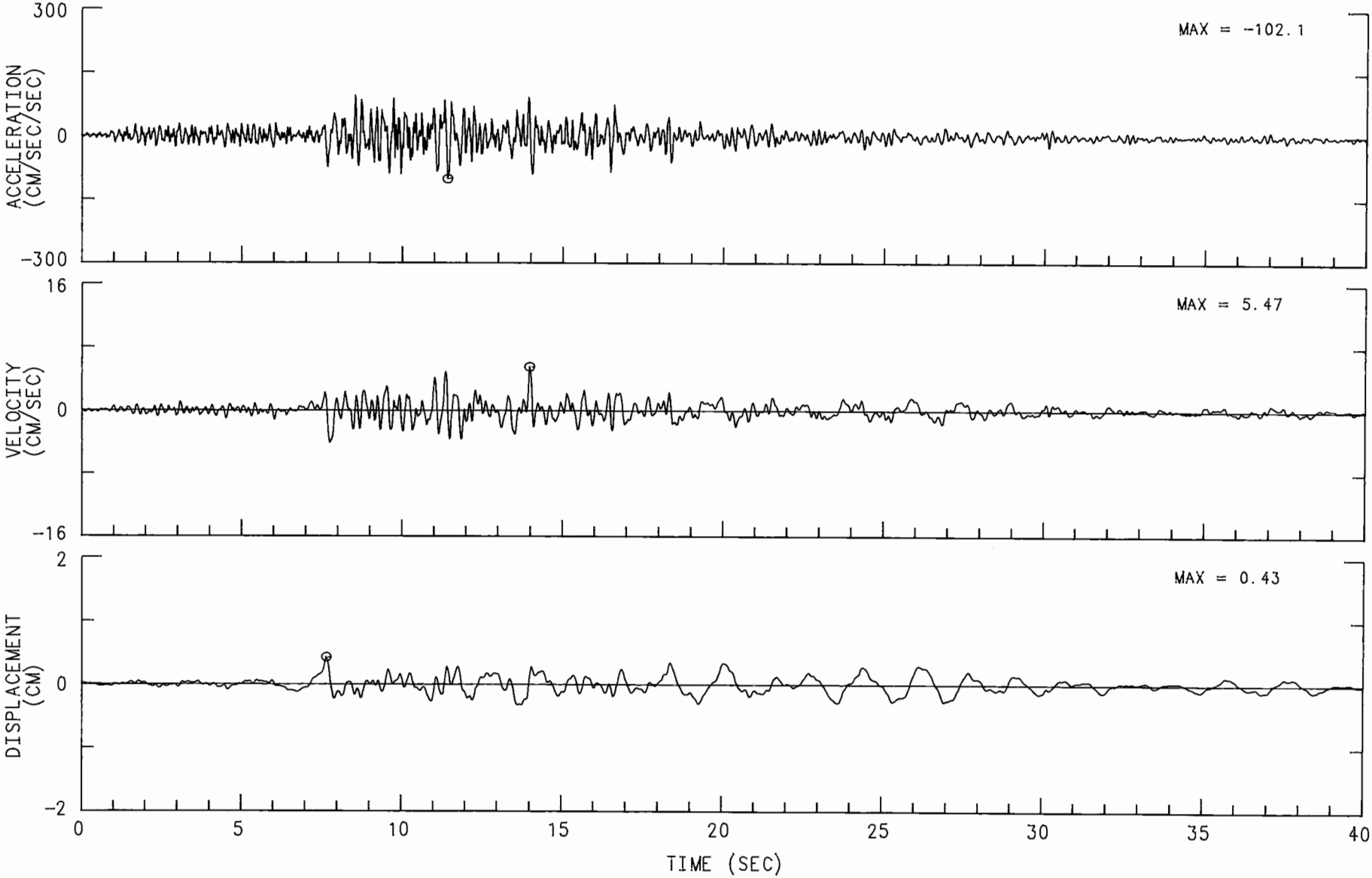
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 7: 90 DEG (ROOF, CENTER OF NORTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B

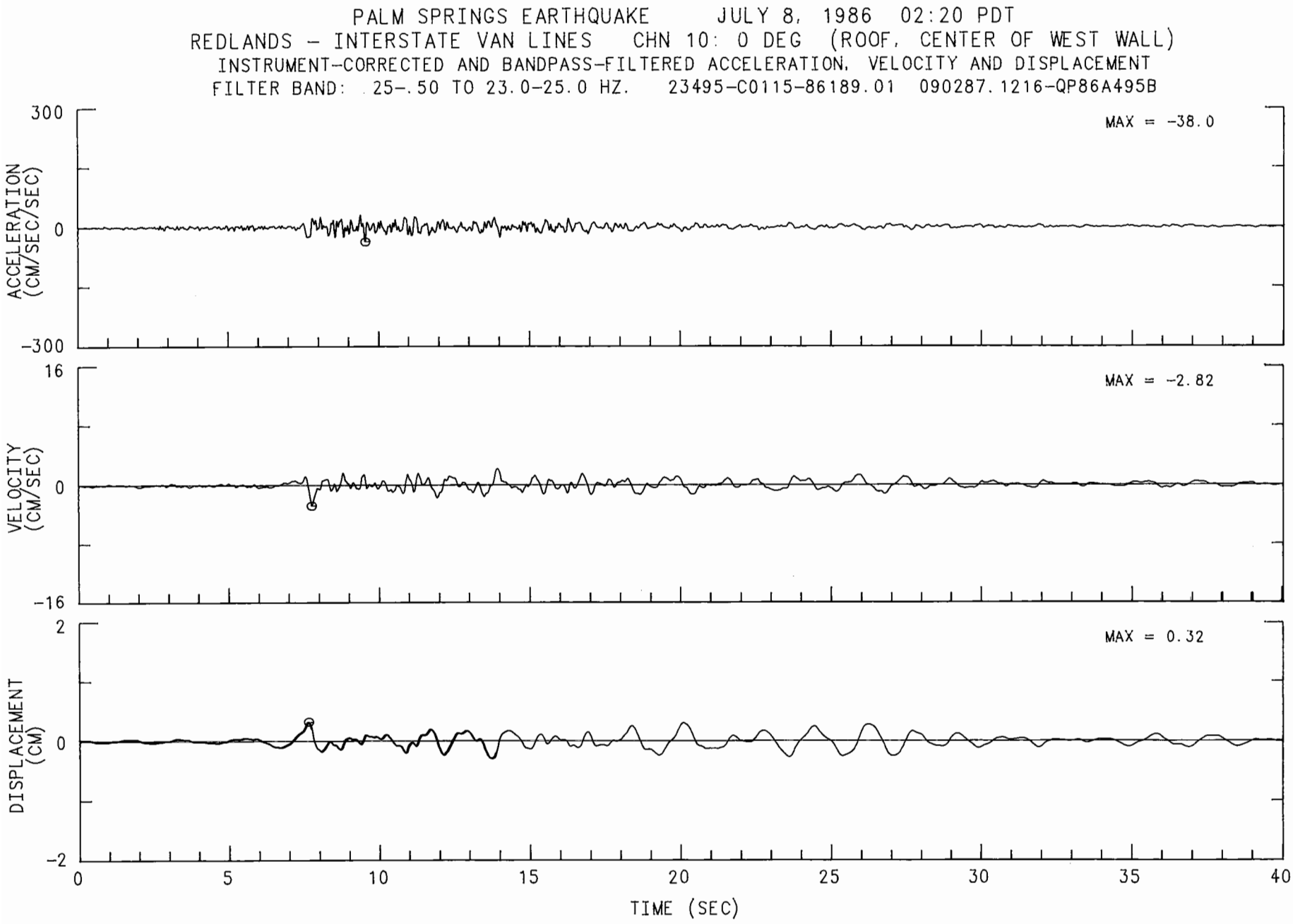


PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 8: 0 DEG (ROOF, CENTER OF EAST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B

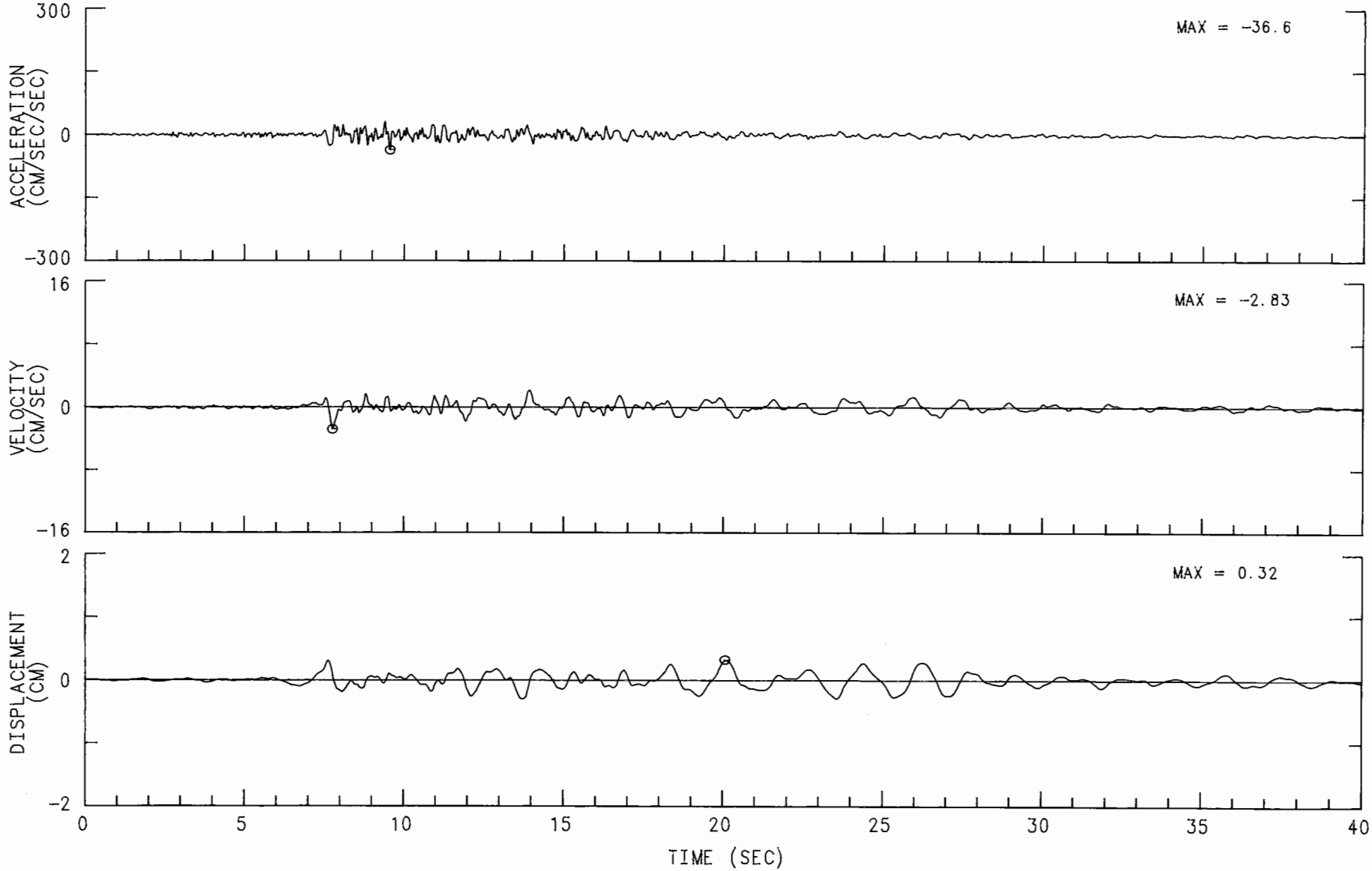


PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 9: 0 DEG (ROOF, CENTER OF SOUTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B

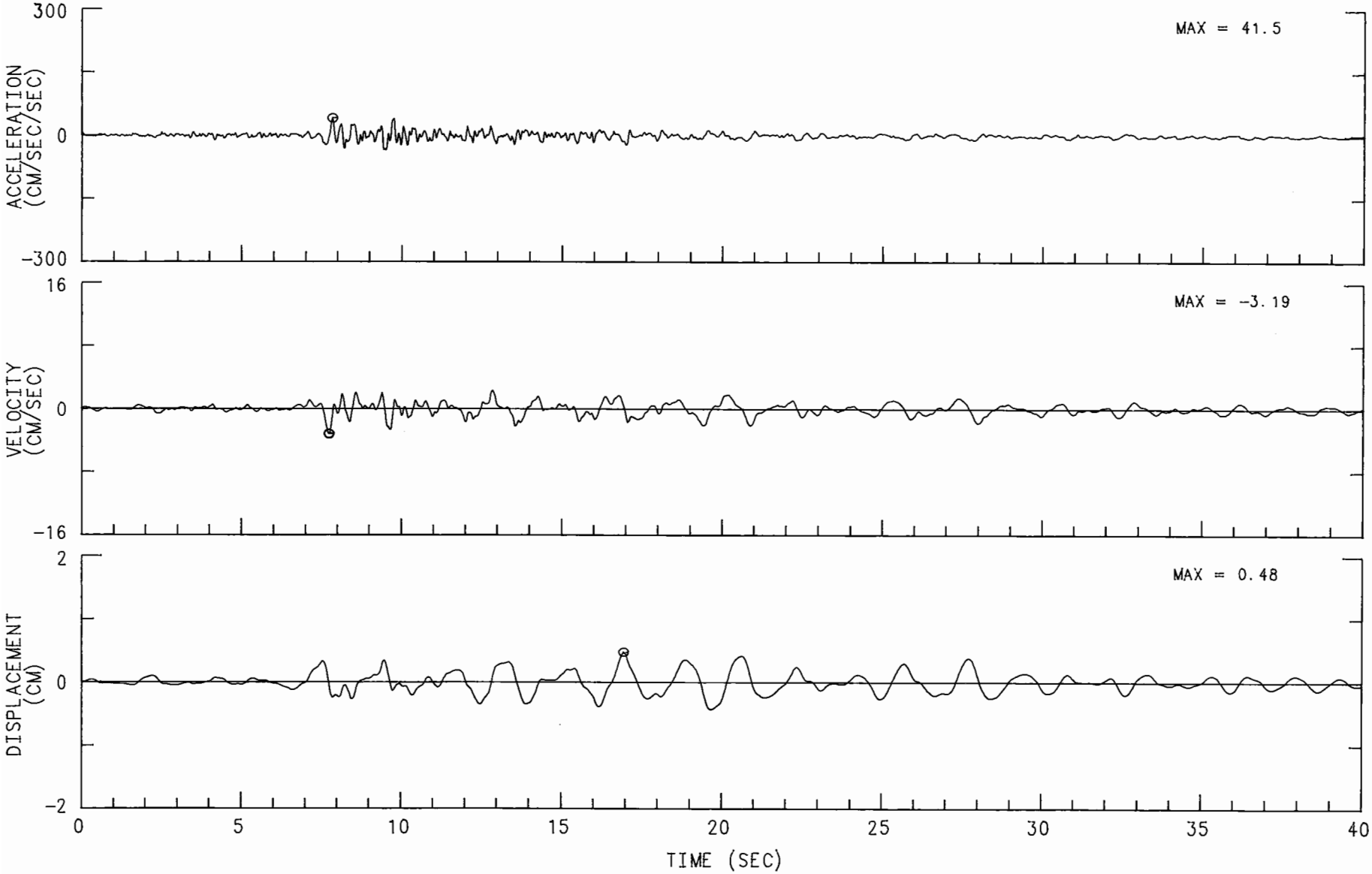



PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 10: 0 DEG (ROOF, CENTER OF WEST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B
ACCELERATION (CM/SEC/SEC)
300
0
-300
MAX = -38.0
VELOCITY (CM/SEC)
16
0
-16
MAX = -2.82
DISPLACEMENT (CM)
2
0
-2
MAX = 0.32
0
5
10
15
20
25
30
35
40
TIME (SEC)

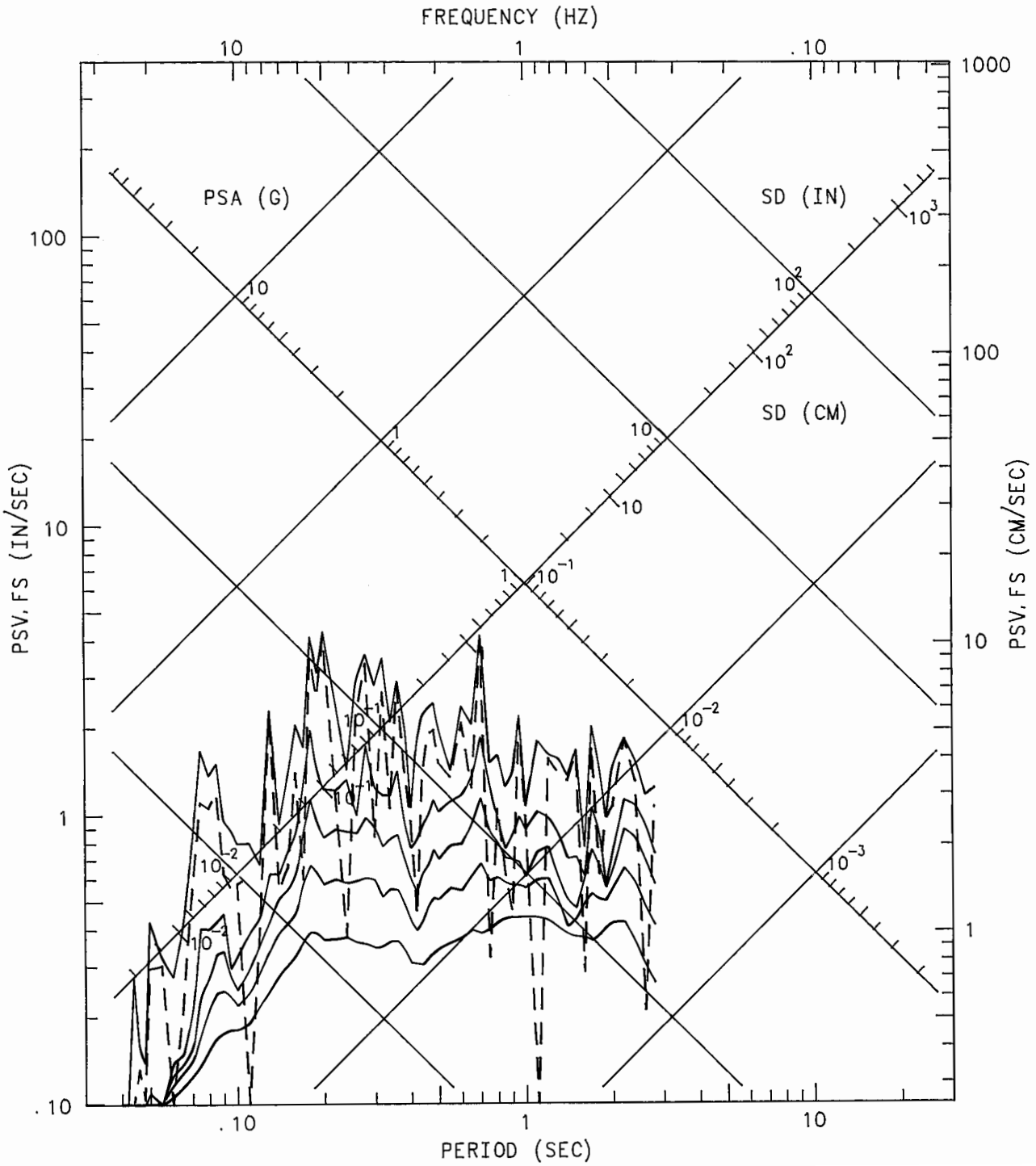
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 11: 0 DEG (GROUND FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B



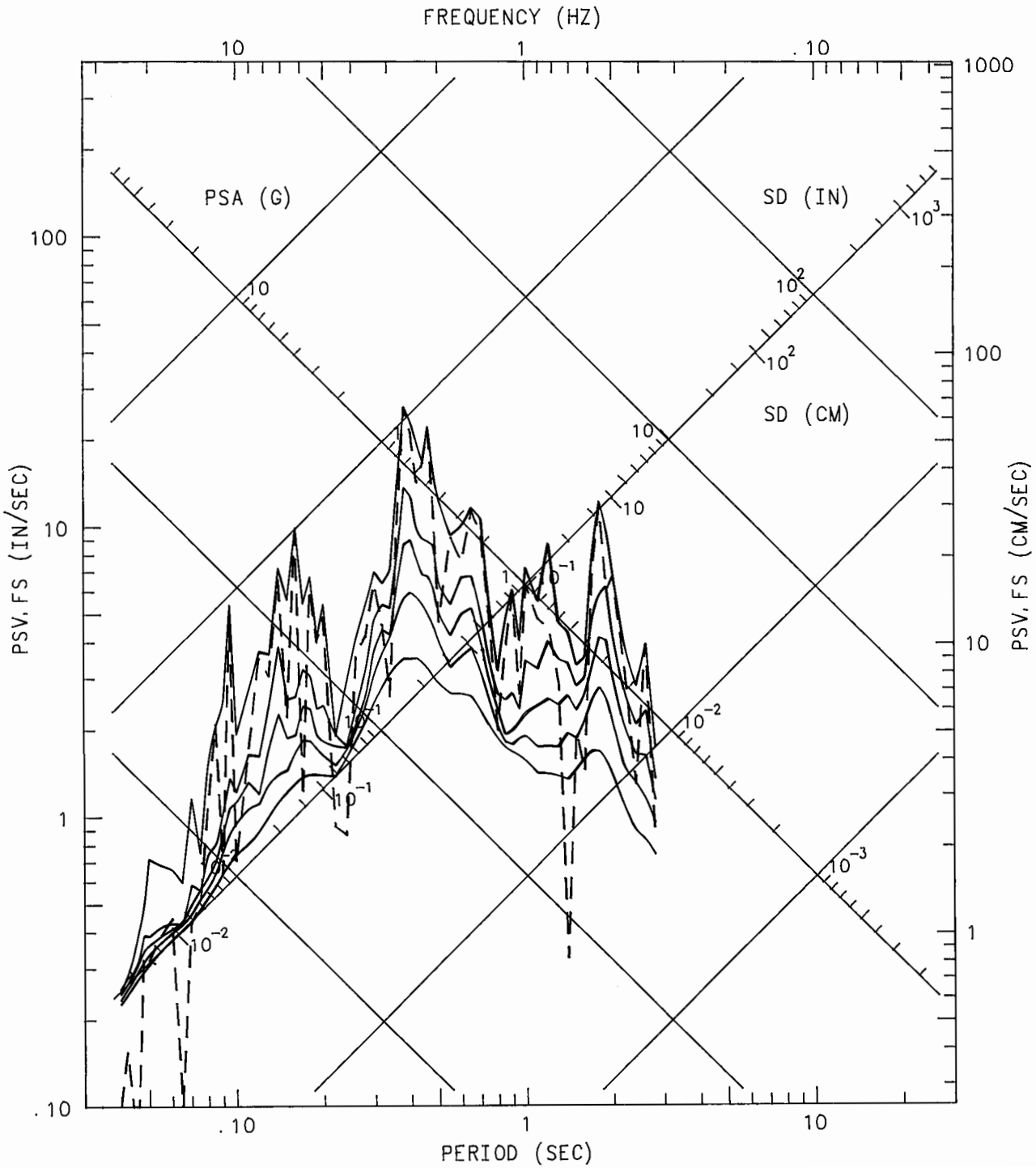
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES CHN 12: 90 DEG (GROUND FLOOR)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 25-.50 TO 23.0-25.0 HZ. 23495-C0115-86189.01 090287.1216-QP86A495B



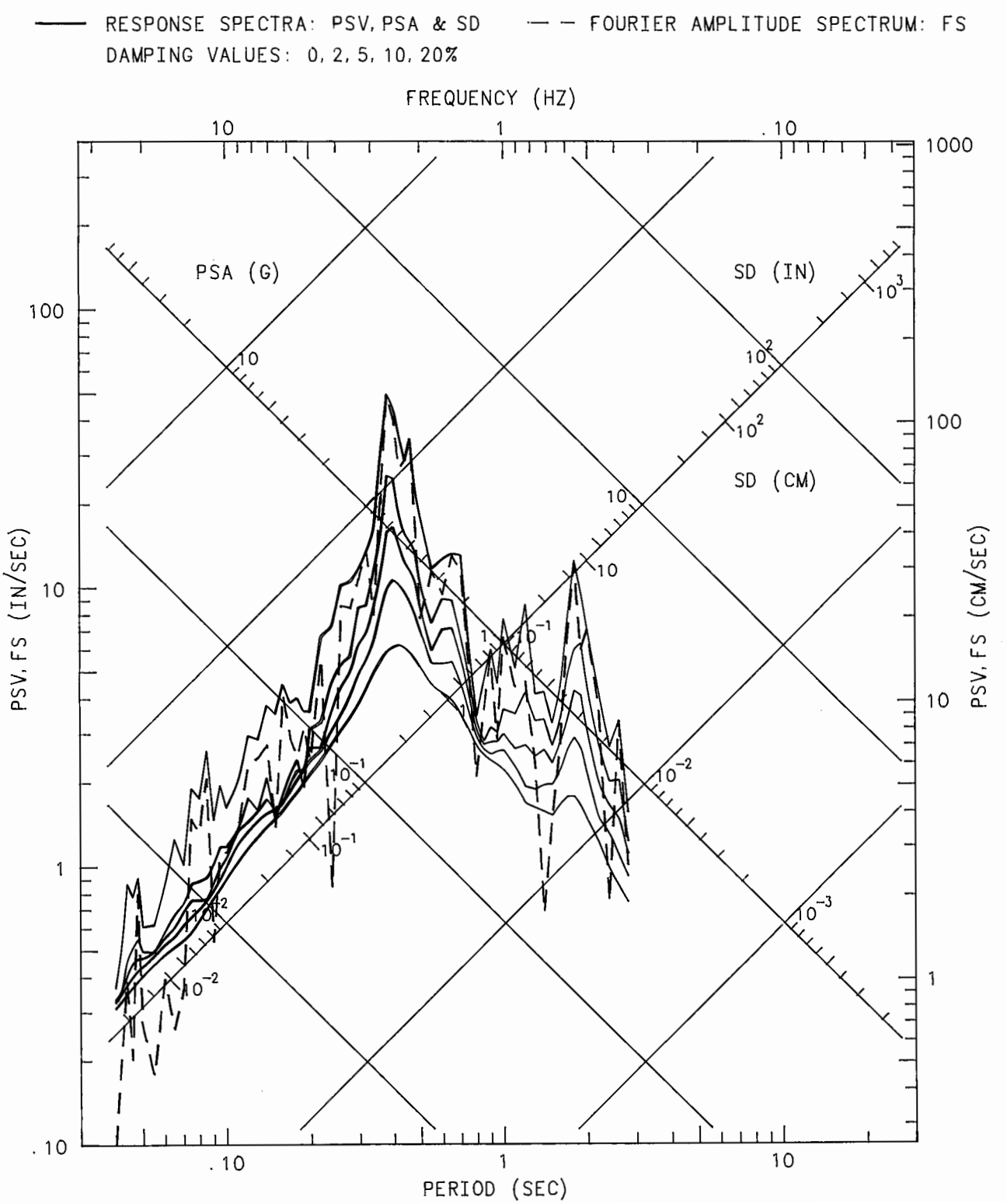
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 1: UP (GROUND FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



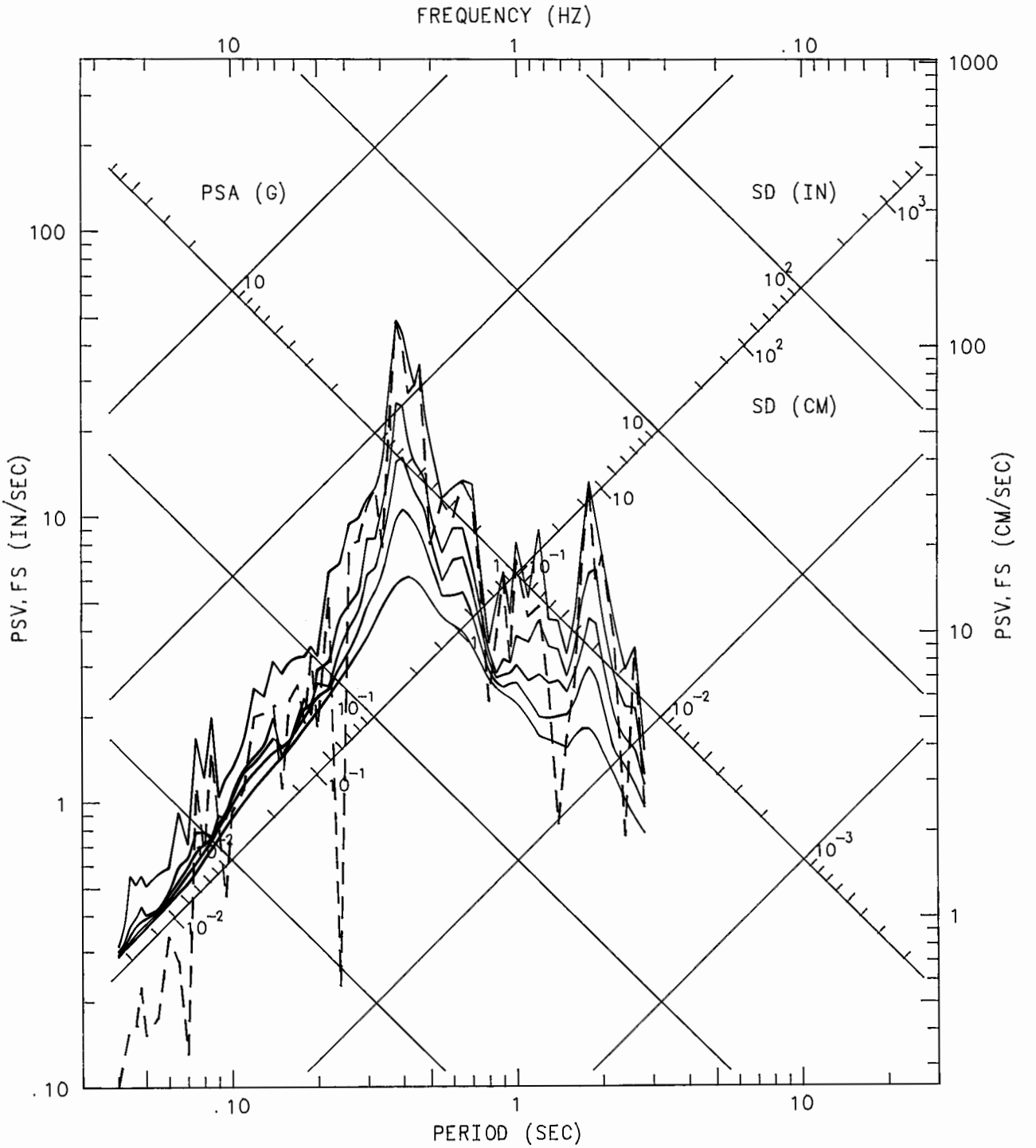
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 2: 90 DEG (MID-HEIGHT ON WEST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



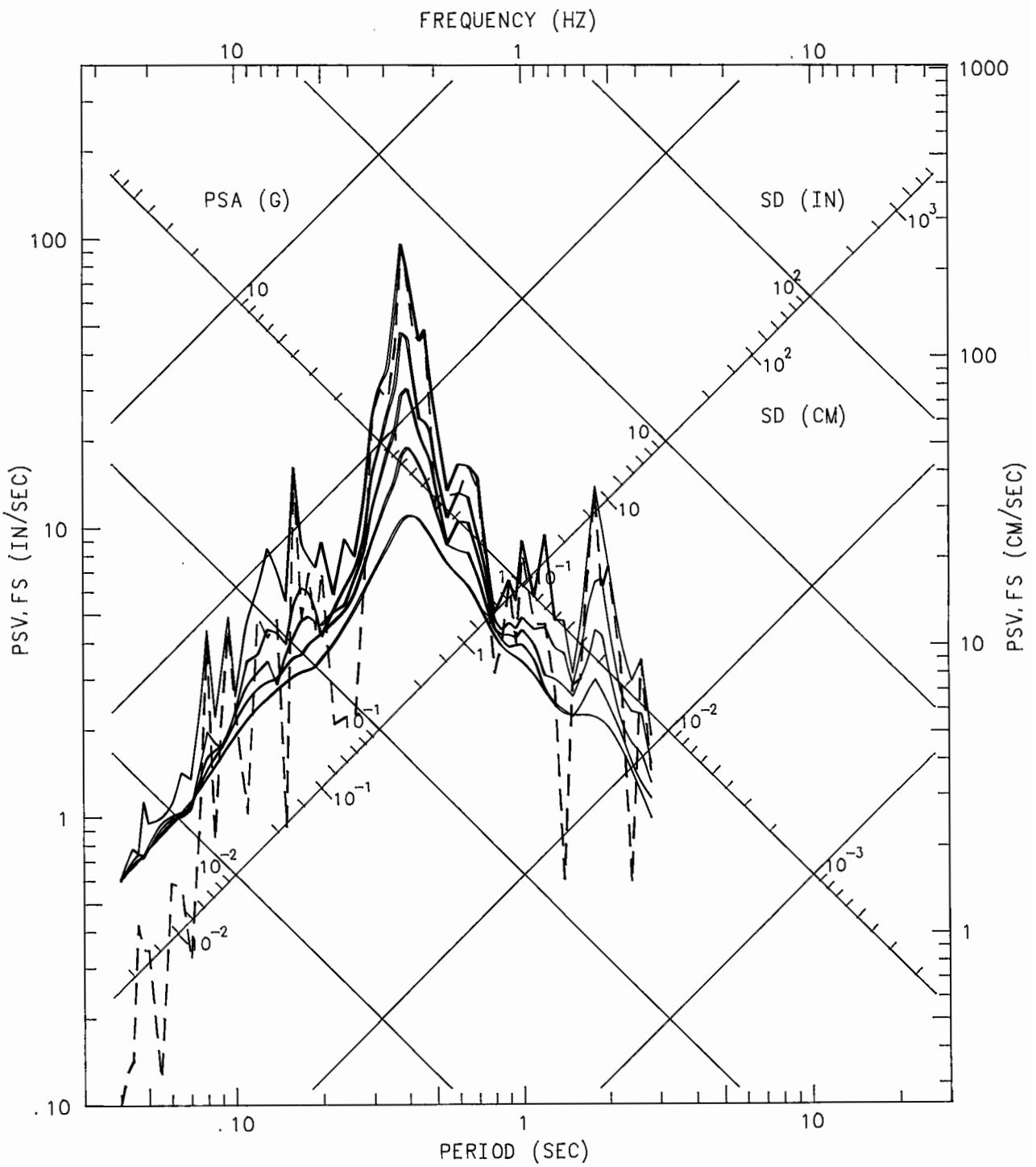
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 3: 90 DEG (ROOF, CENTER OF WEST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



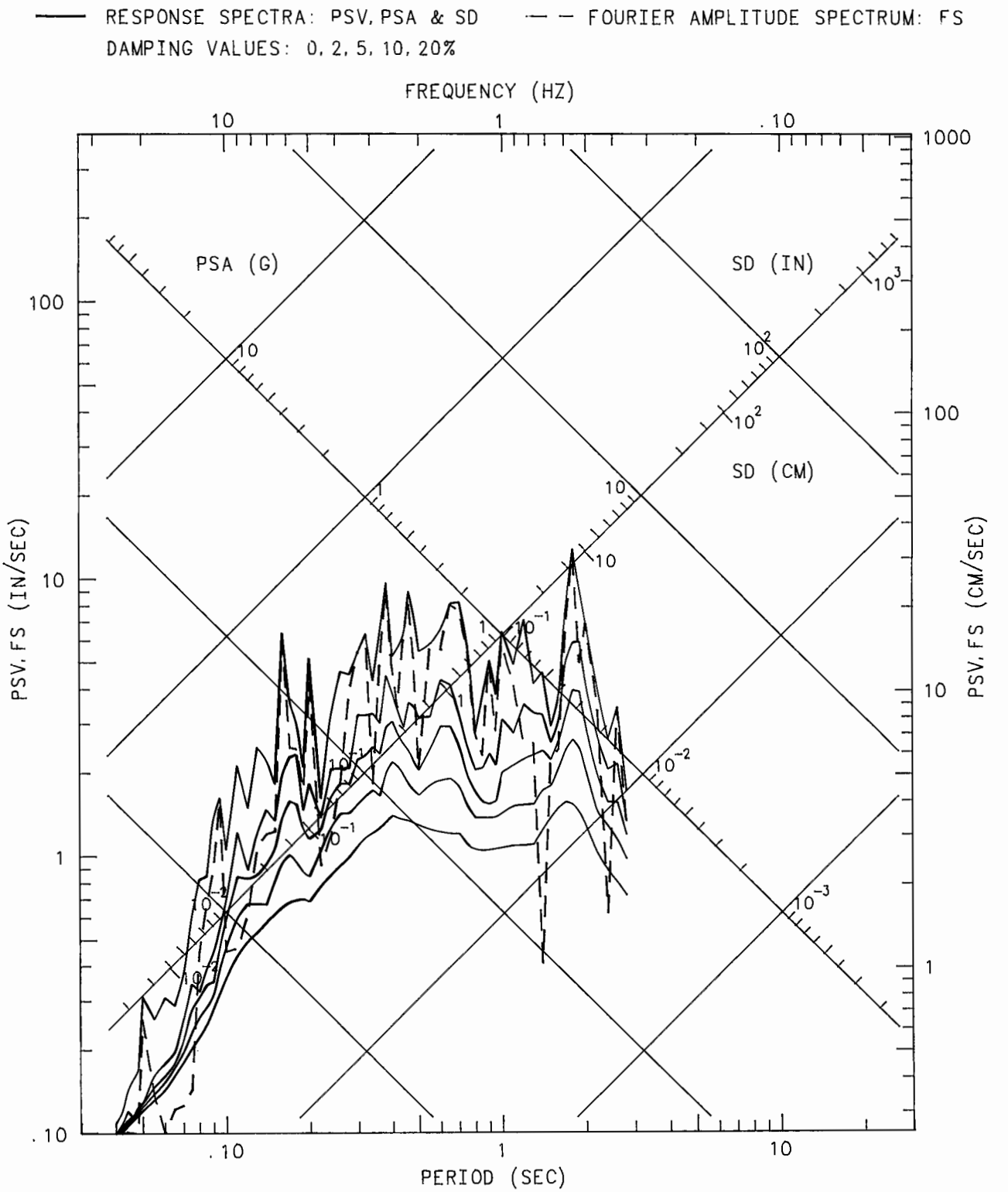
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 4: 90 DEG (ROOF, CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



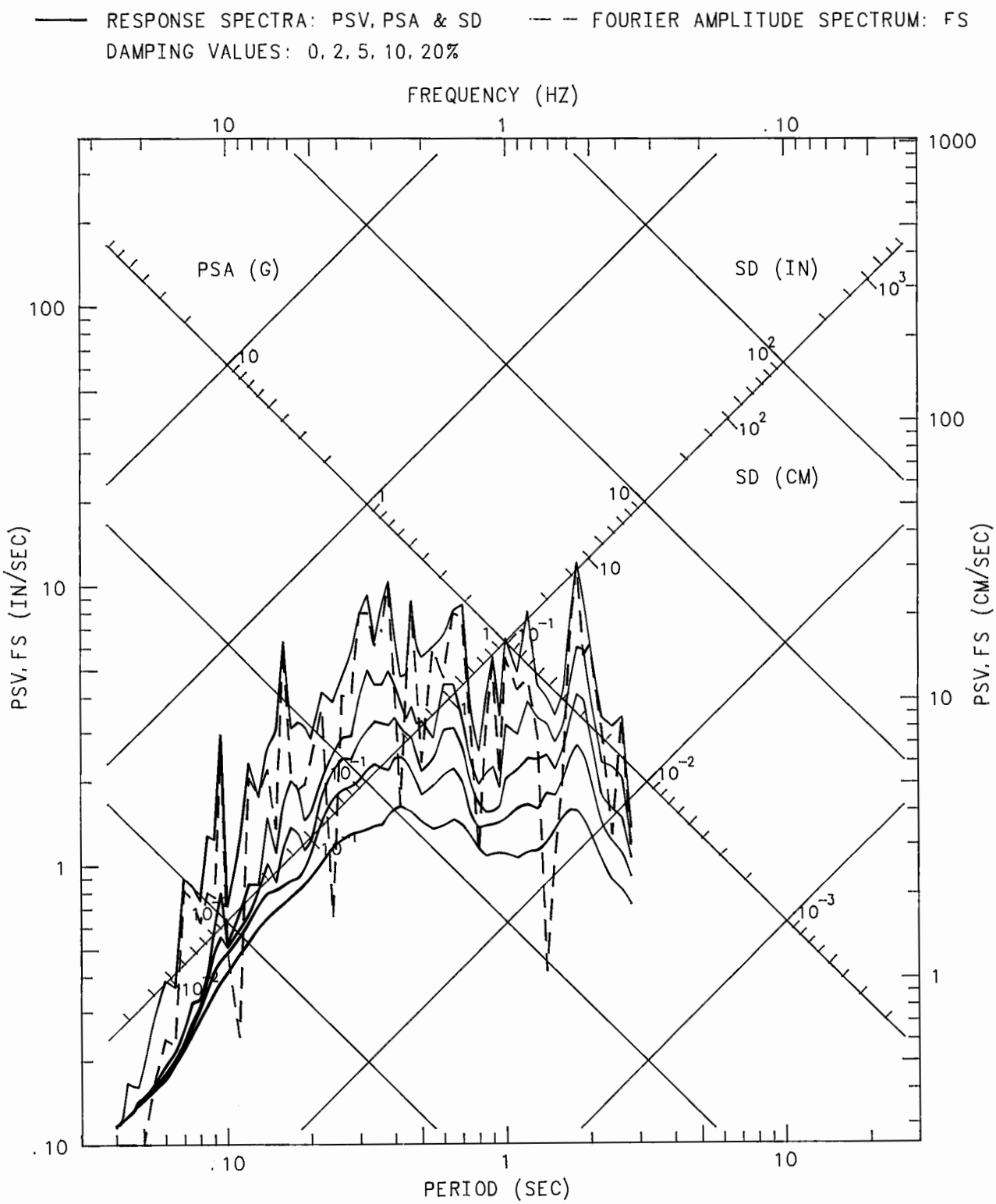
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 5: 90 DEG (ROOF, 1/4LENGTH POINT OF WEST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



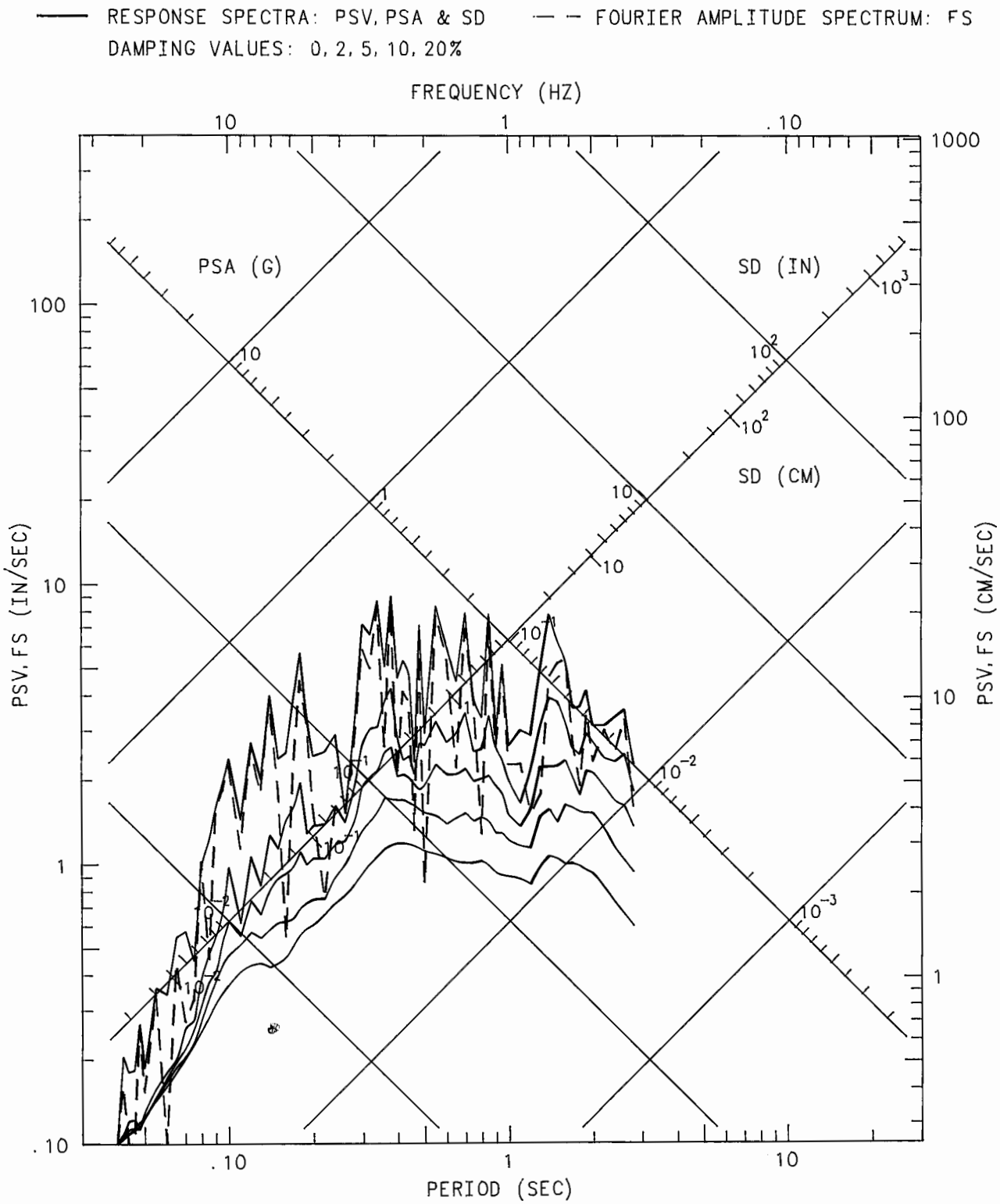
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 6: 90 DEG (ROOF, CENTER OF SOUTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



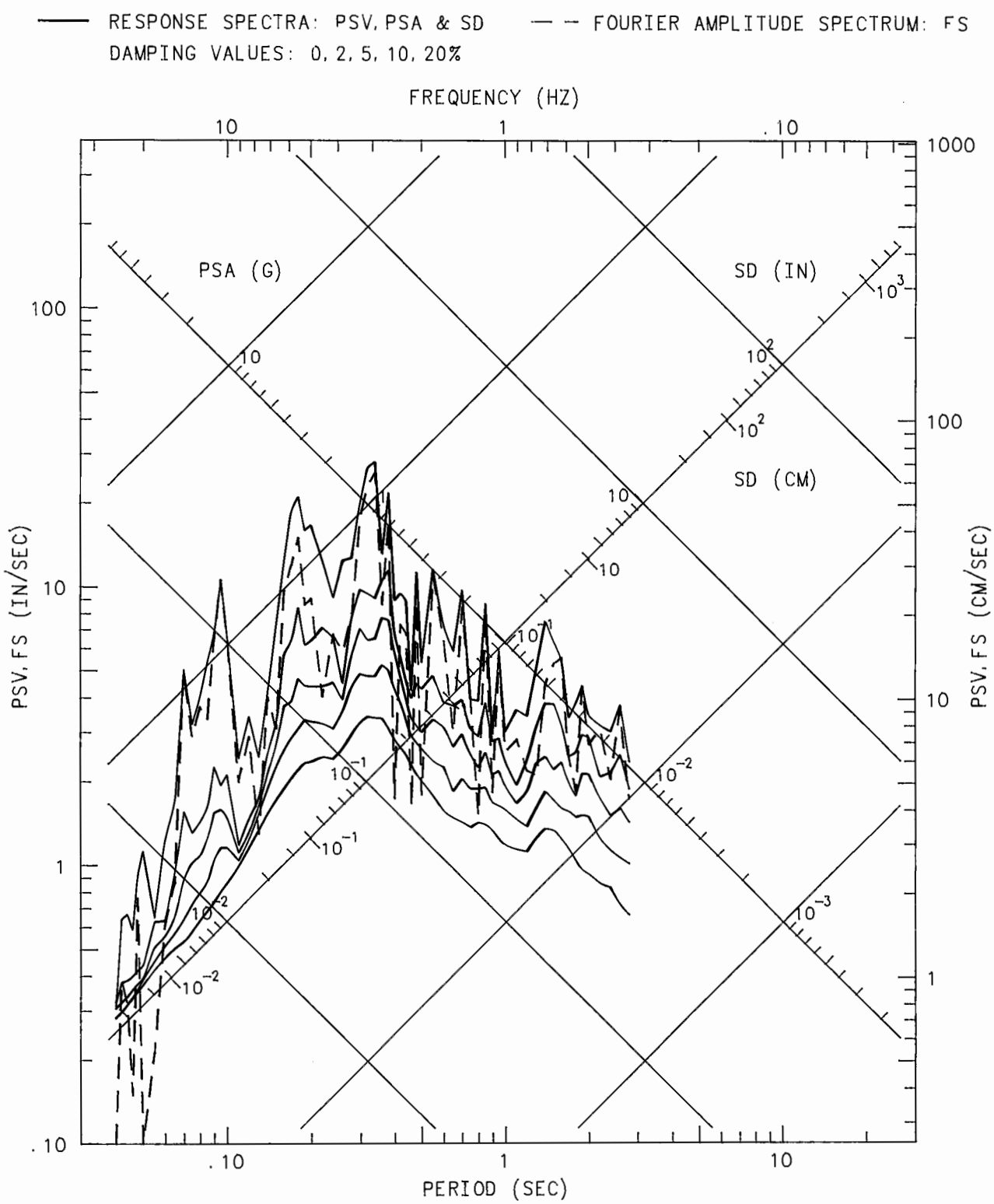
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 7: 90 DEG (ROOF, CENTER OF NORTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



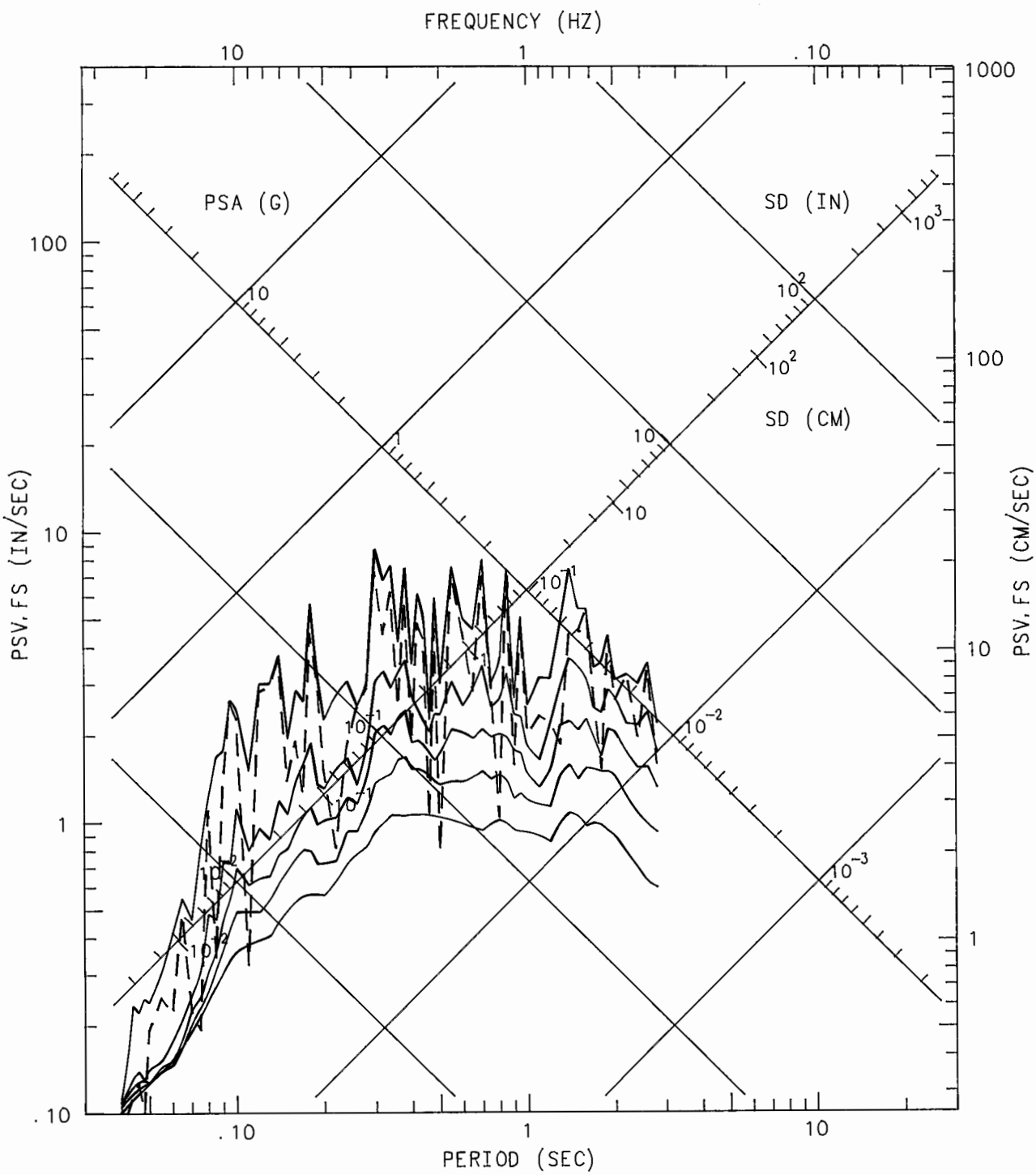
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 8: 0 DEG (ROOF, CENTER OF EAST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



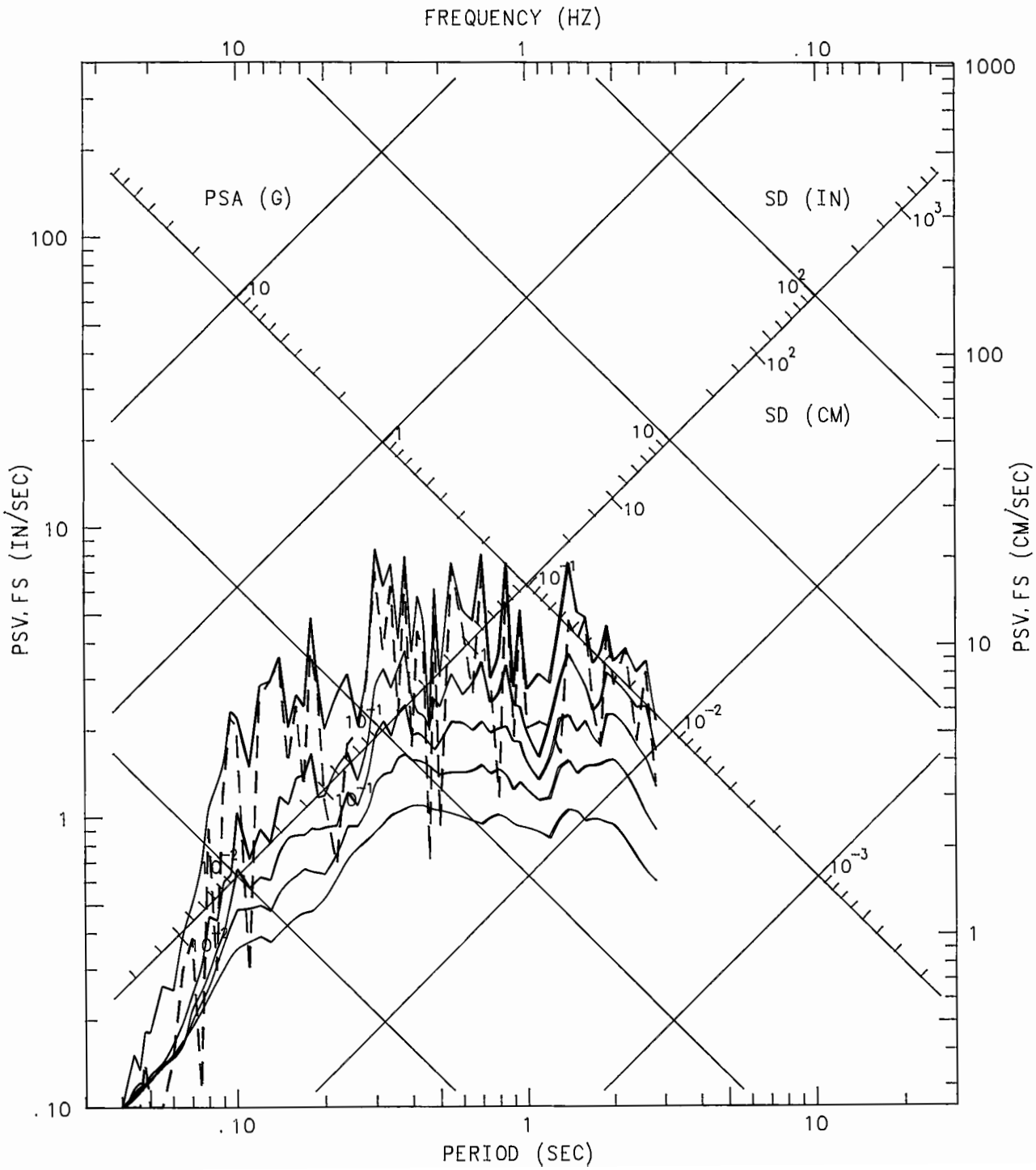
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 9: 0 DEG (ROOF, CENTER OF SOUTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



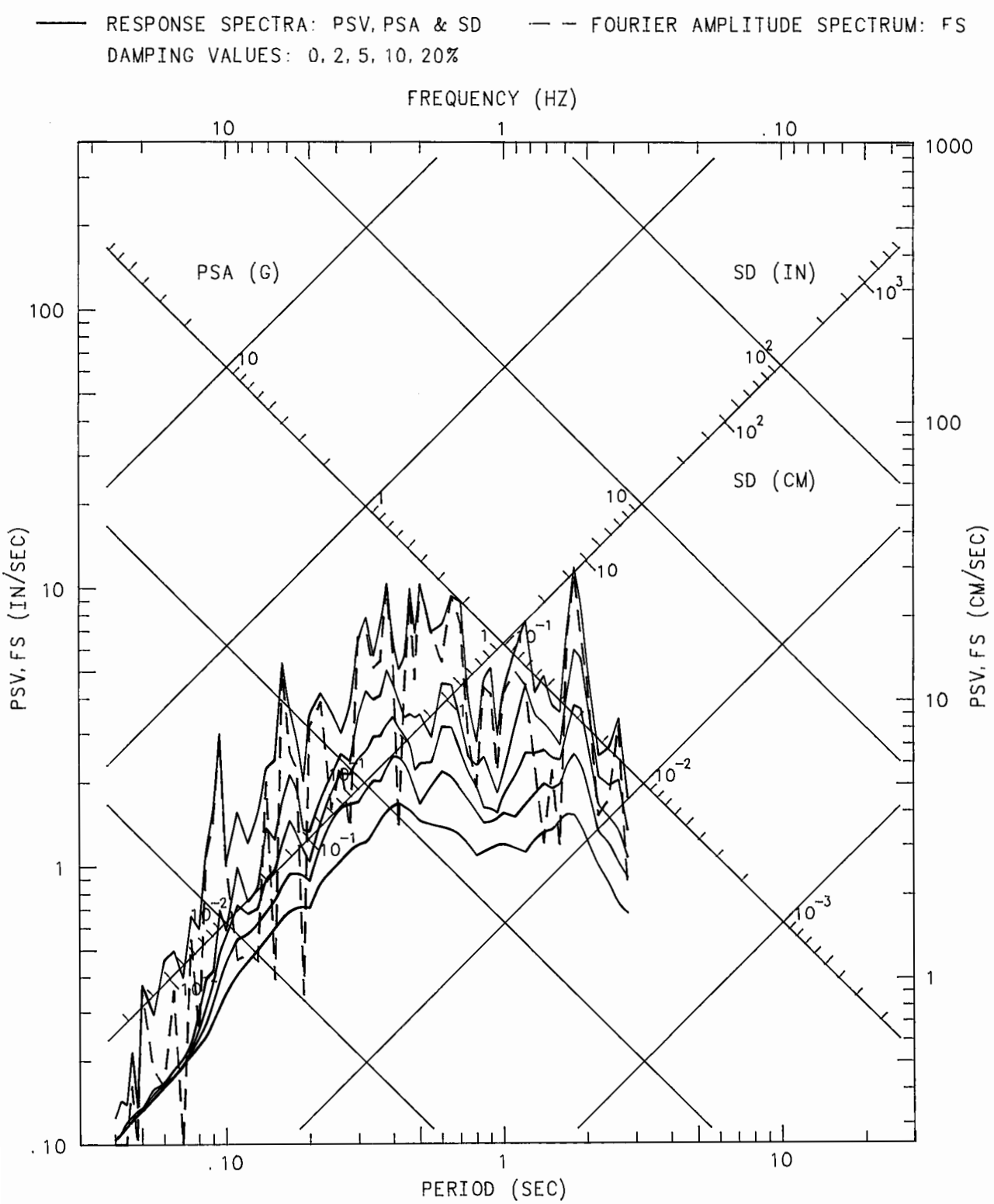
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 10: 0 DEG (ROOF, CENTER OF WEST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



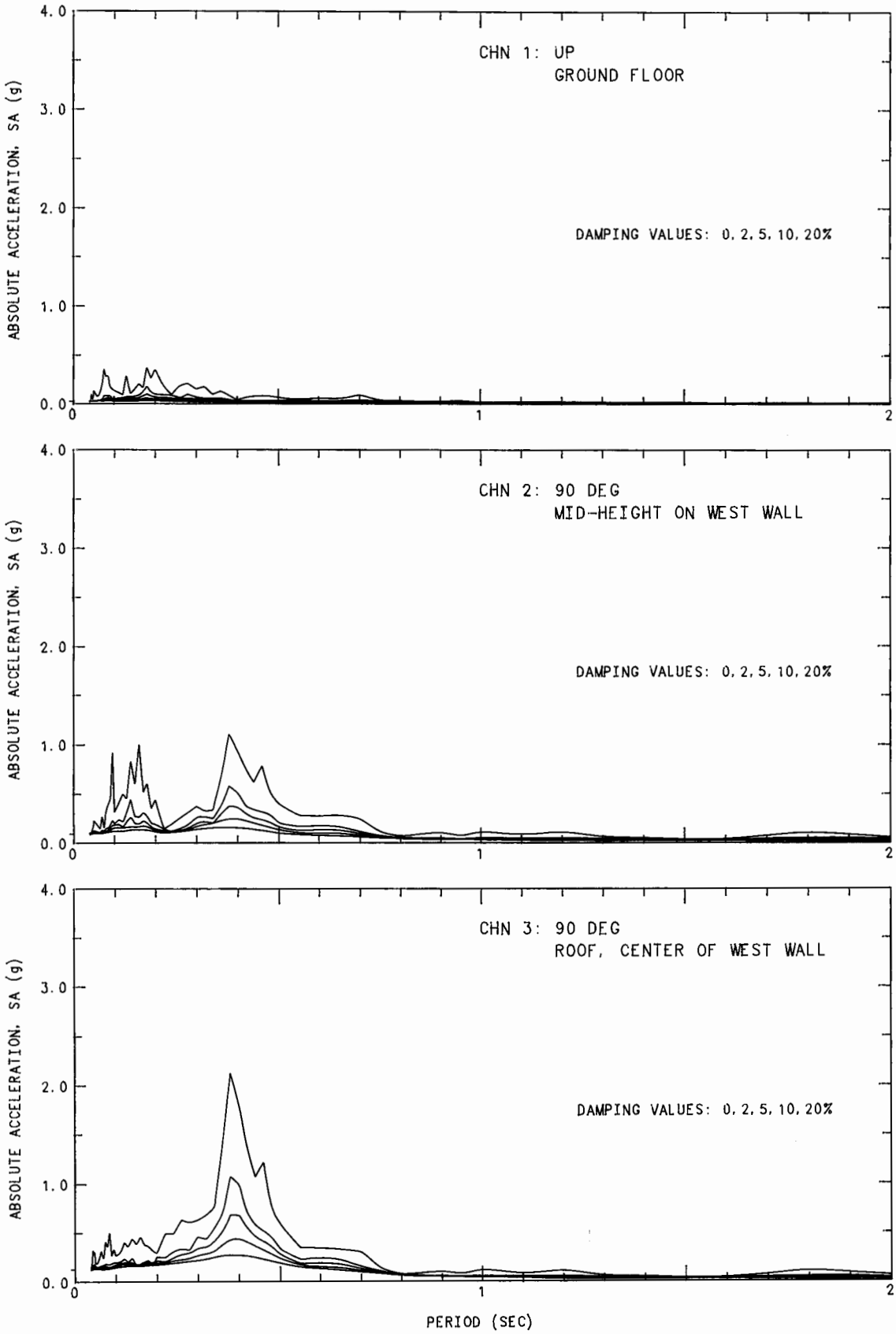
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 11: 0 DEG (GROUND FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



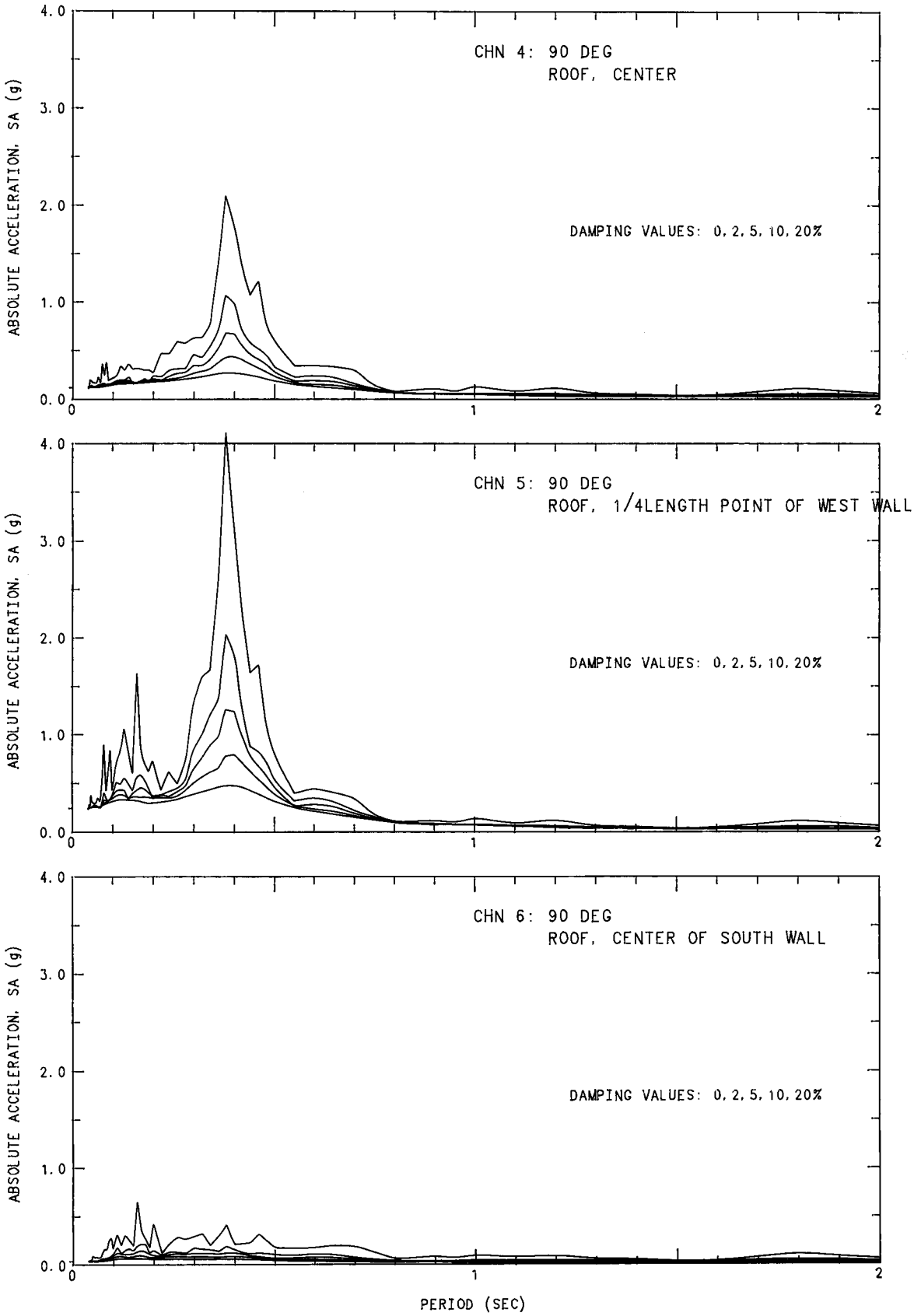
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
CHN 12: 90 DEG (GROUND FLOOR)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072788.1012-QP86A495B



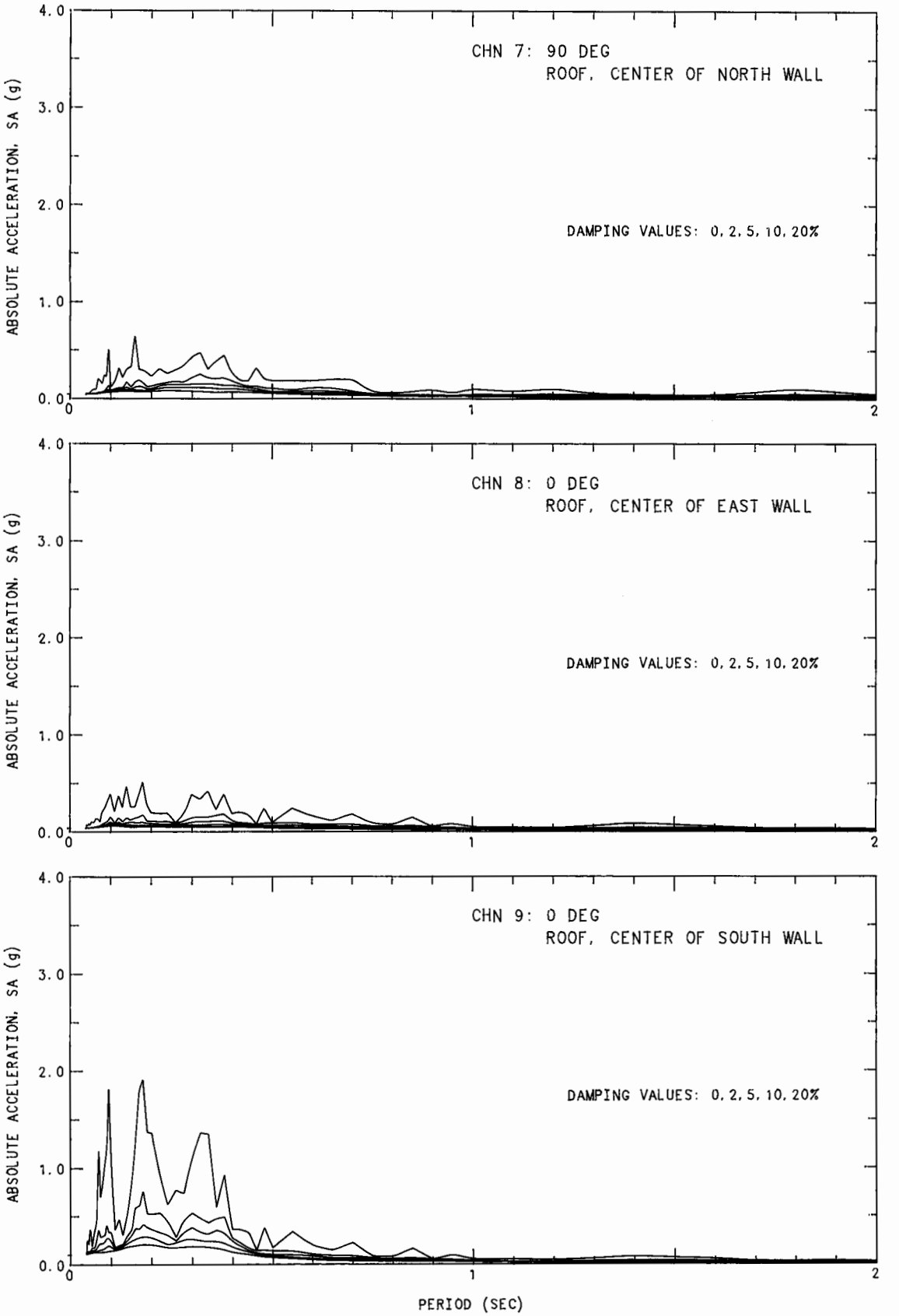
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072688.1012-QP86A495B



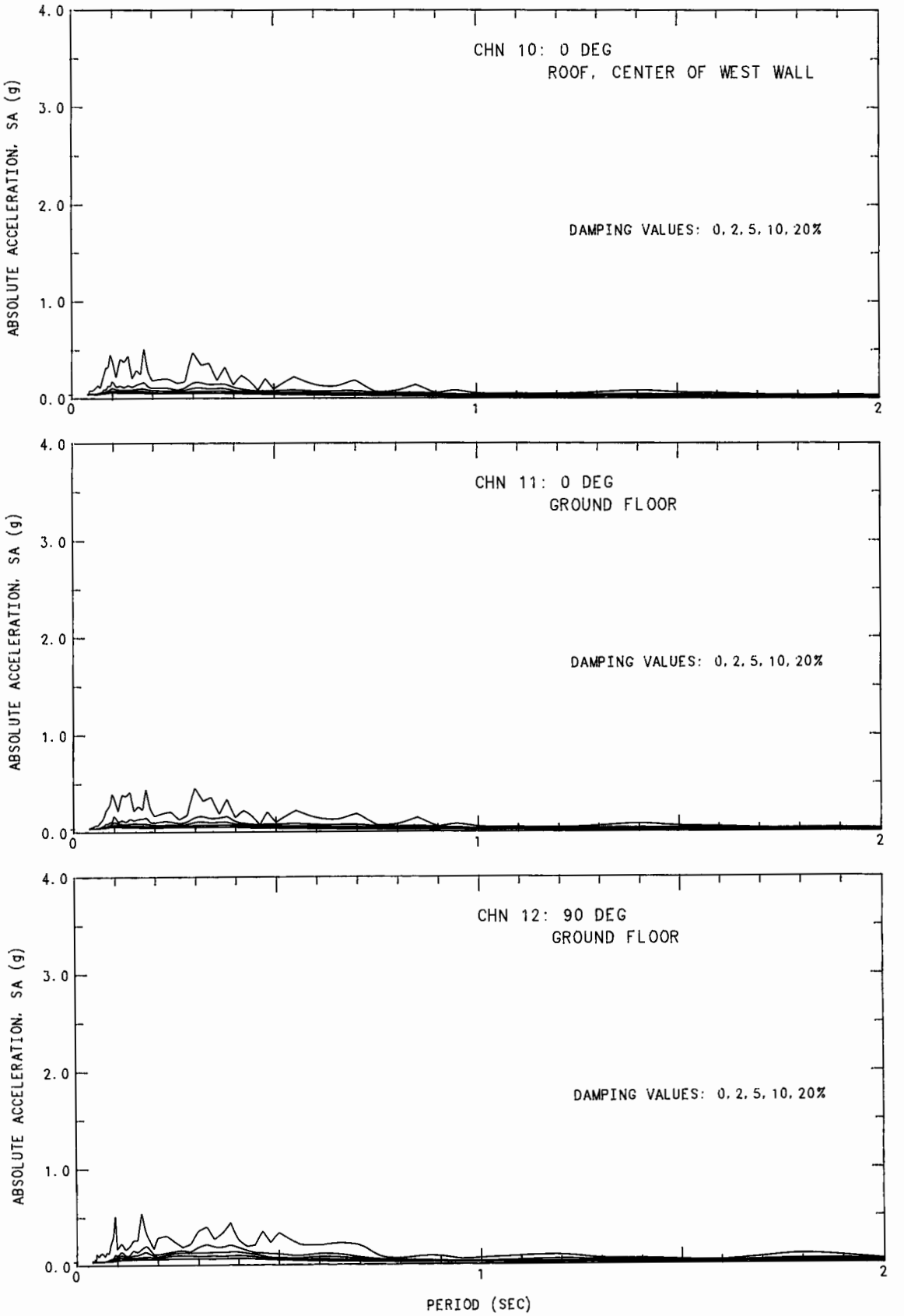
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072688.1012-QP86A495B



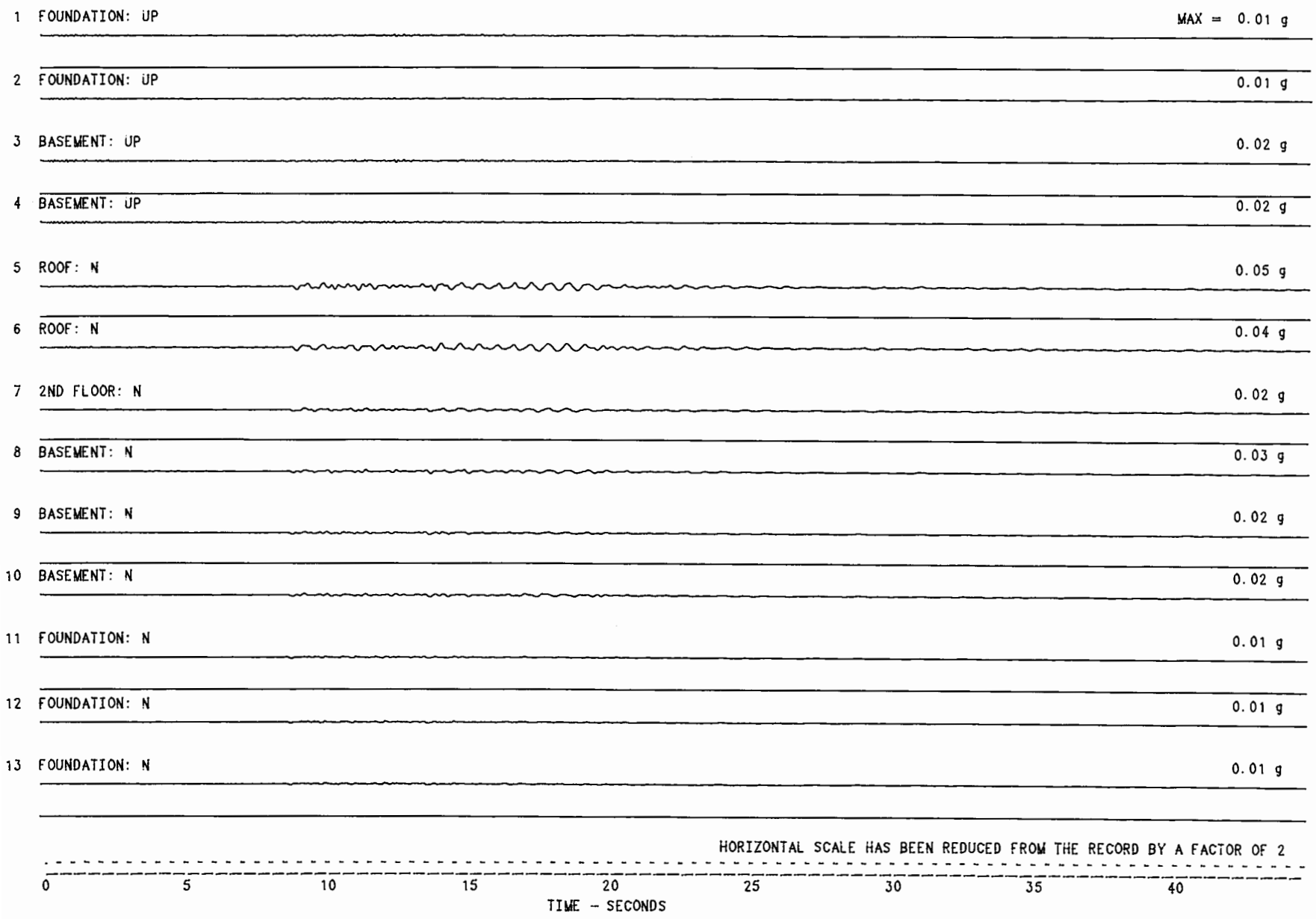
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072688.1012-QP86A495B



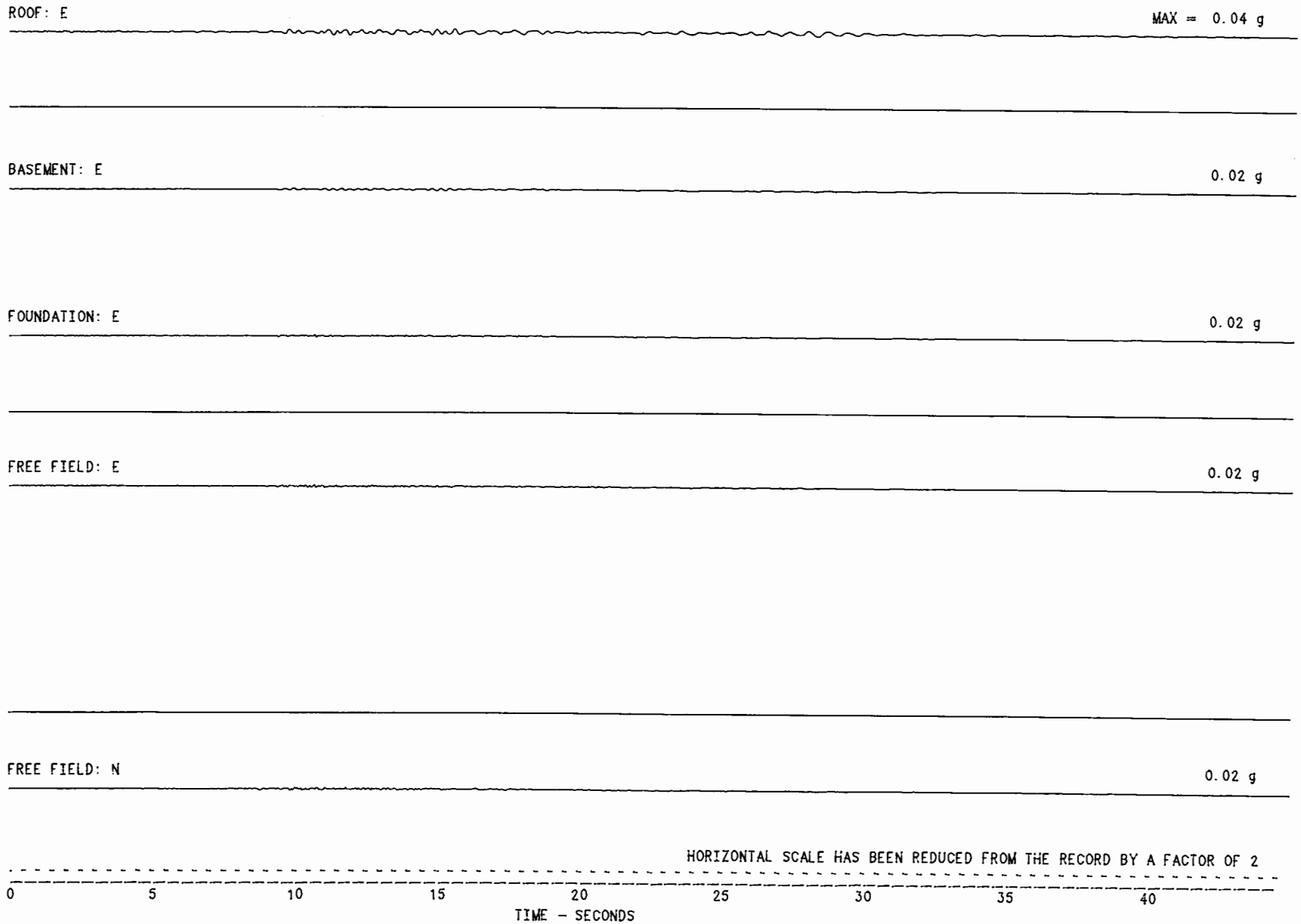
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
REDLANDS - INTERSTATE VAN LINES
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .25-.50 TO 23.0-25.0 HZ.
23495-C0115-86189.01 072688.1012-QP86A495B



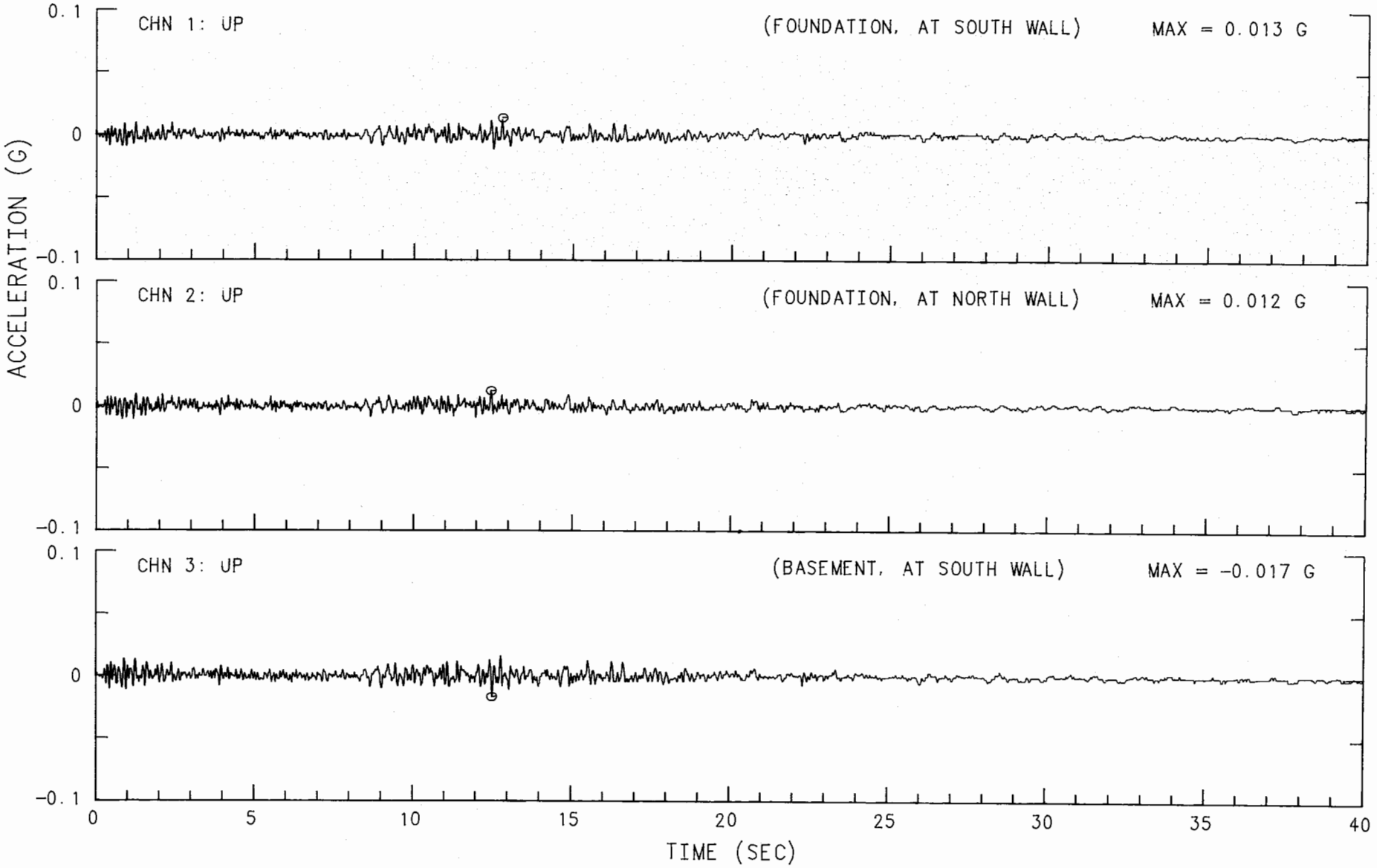
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. RECORD 23497-C0273-86189.04 PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT



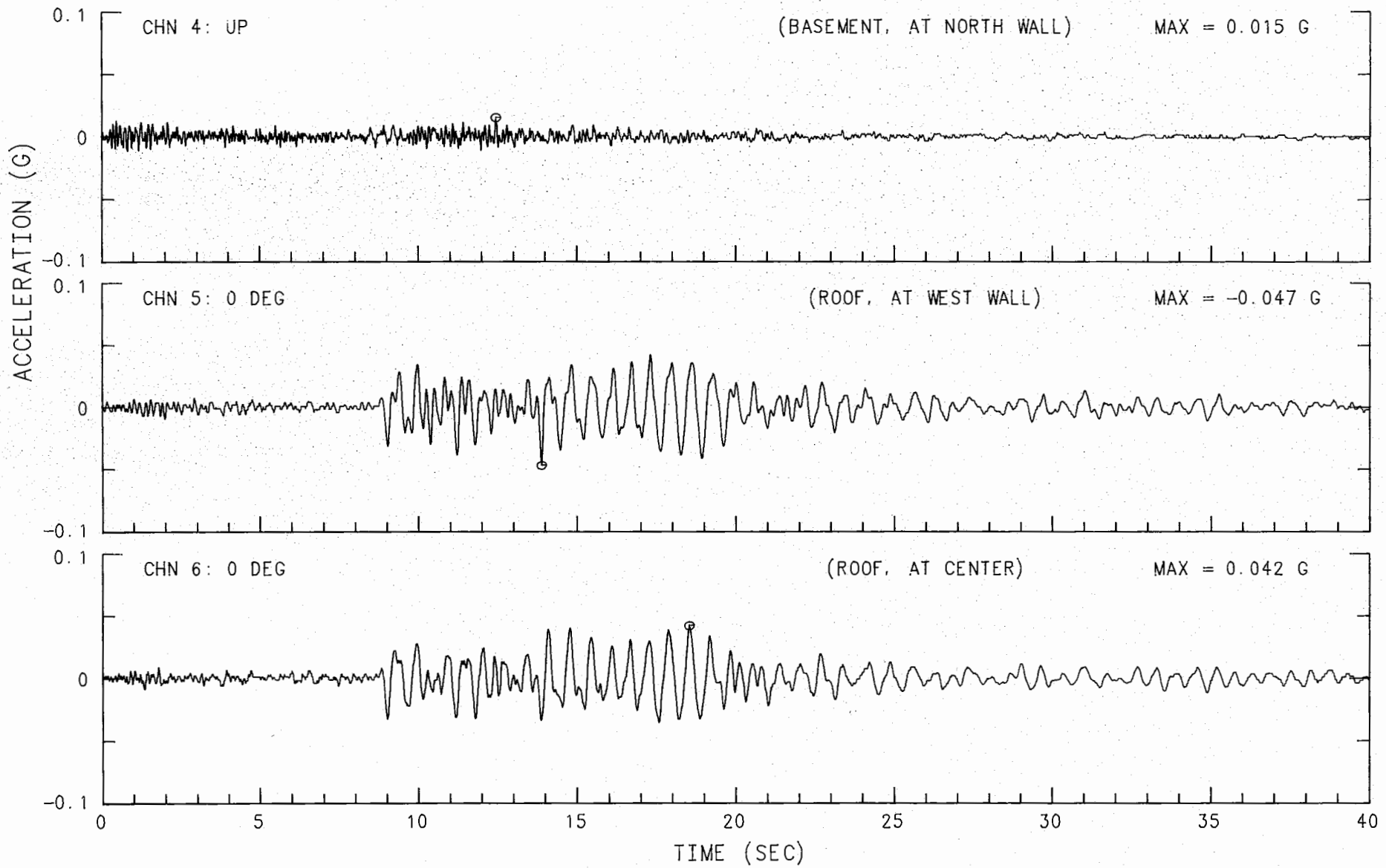
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. RECORD 23497-C0118-86189.01 PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT



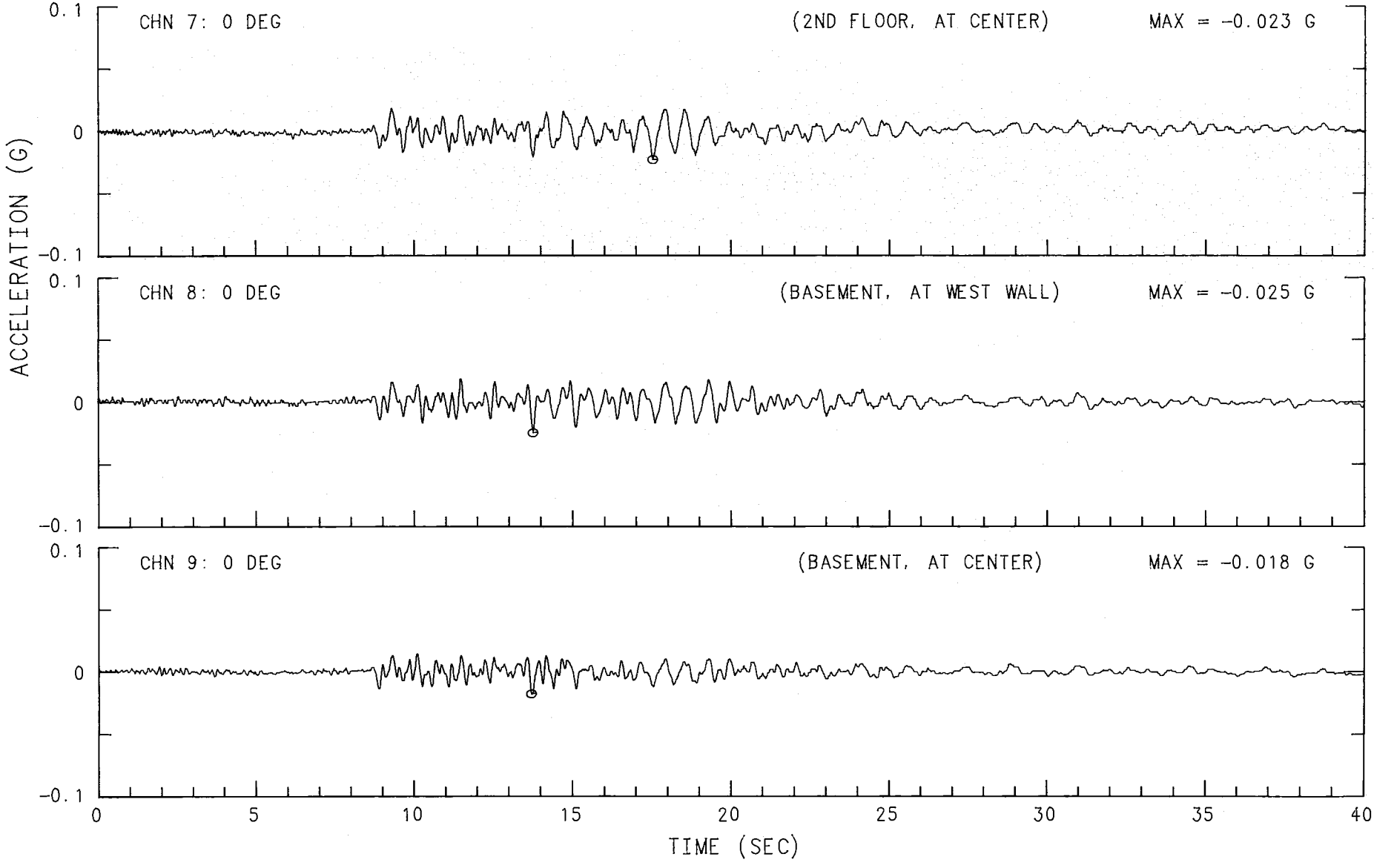
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
UNCORRECTED ACCELEROGRAM 23497-C0273-86189.04 082686.1831-QP86A497C1



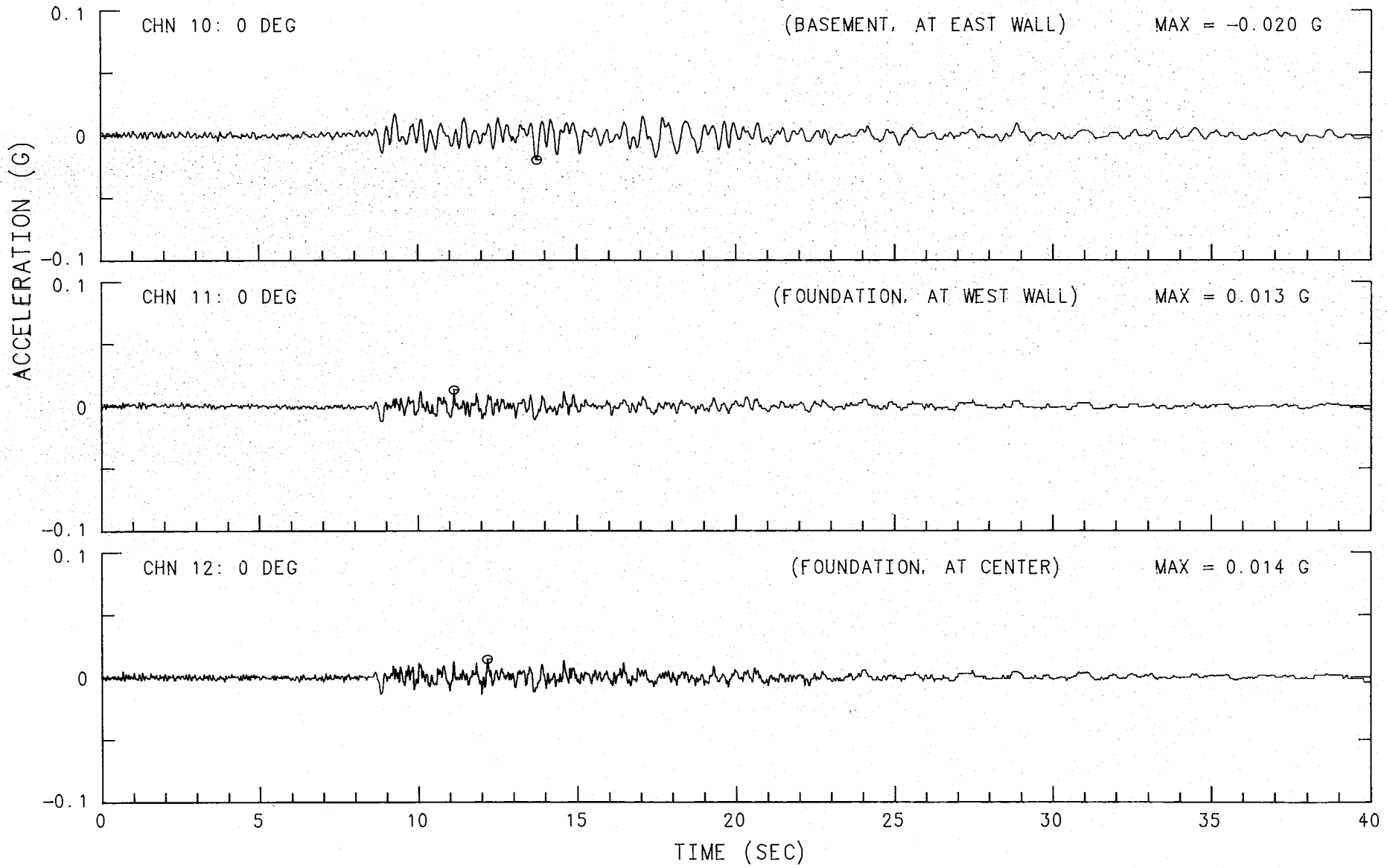
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
UNCORRECTED ACCELEROGRAM 23497-C0273-86189.04 082686.1831-QP86A497C1



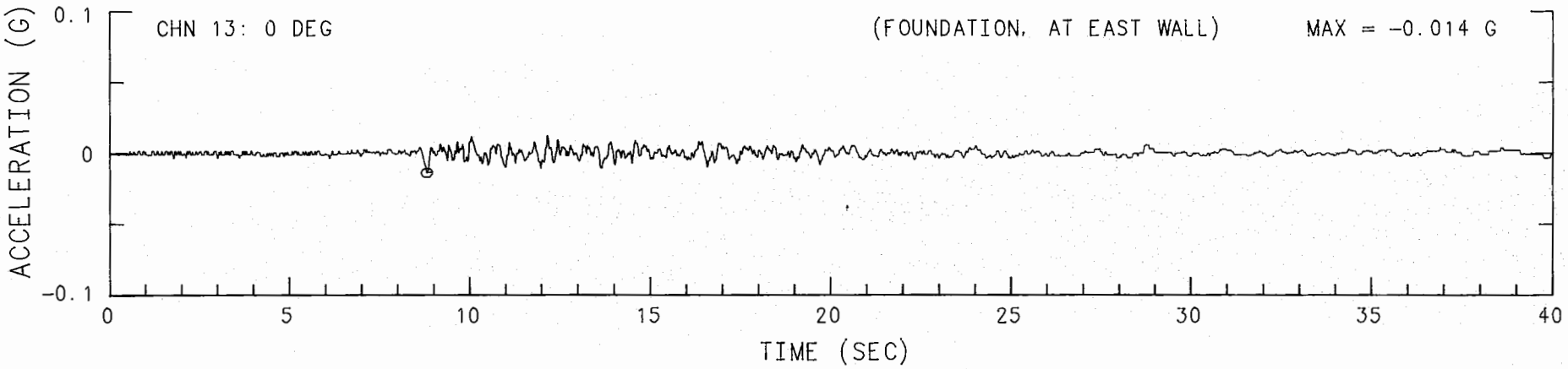
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
UNCORRECTED ACCELEROGRAM 23497-C0273-86189.04 082686.1831-QP86A497C1



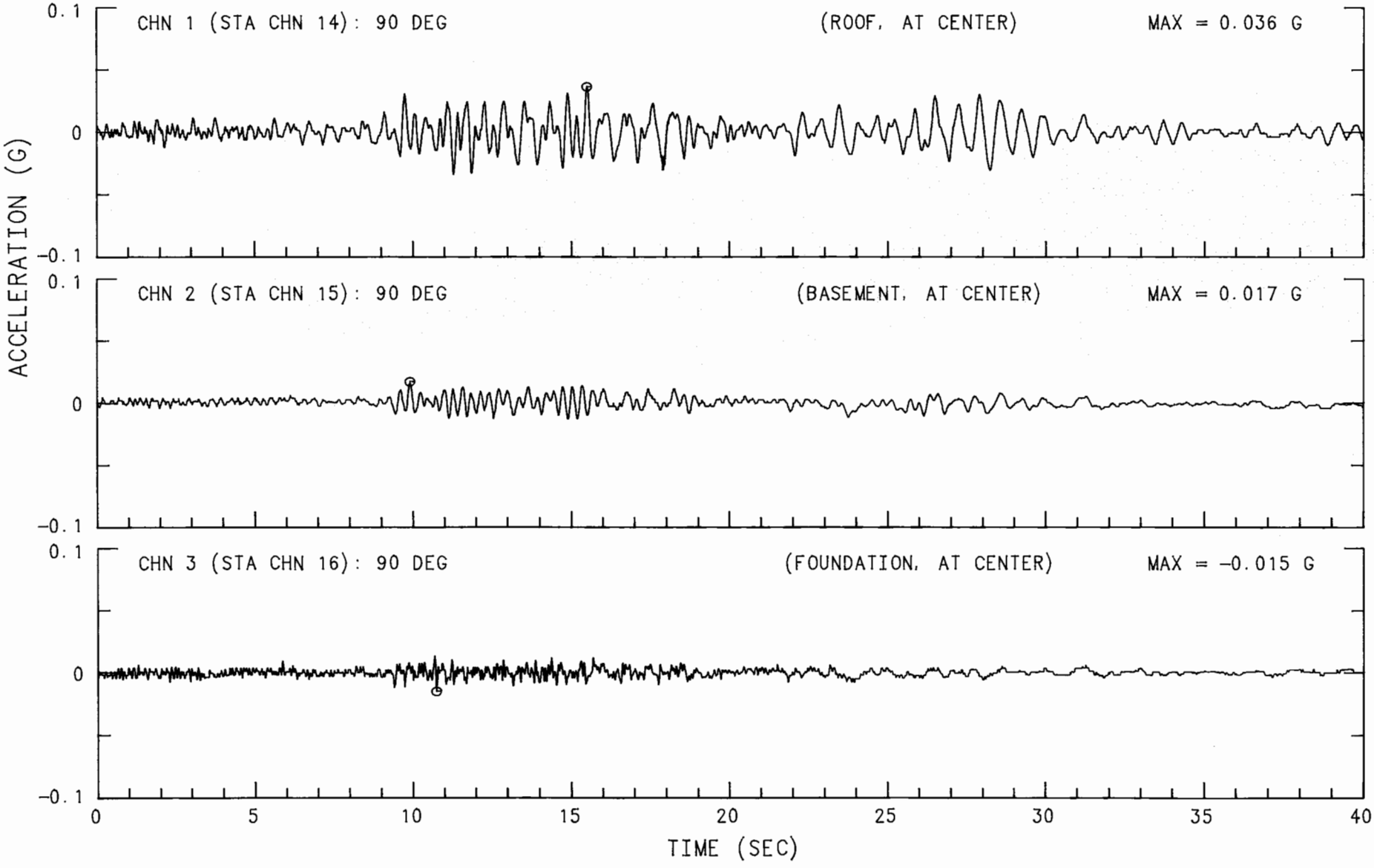
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
UNCORRECTED ACCELEROGRAM 23497-C0273-86189.04 082686.1831-QP86A497C1



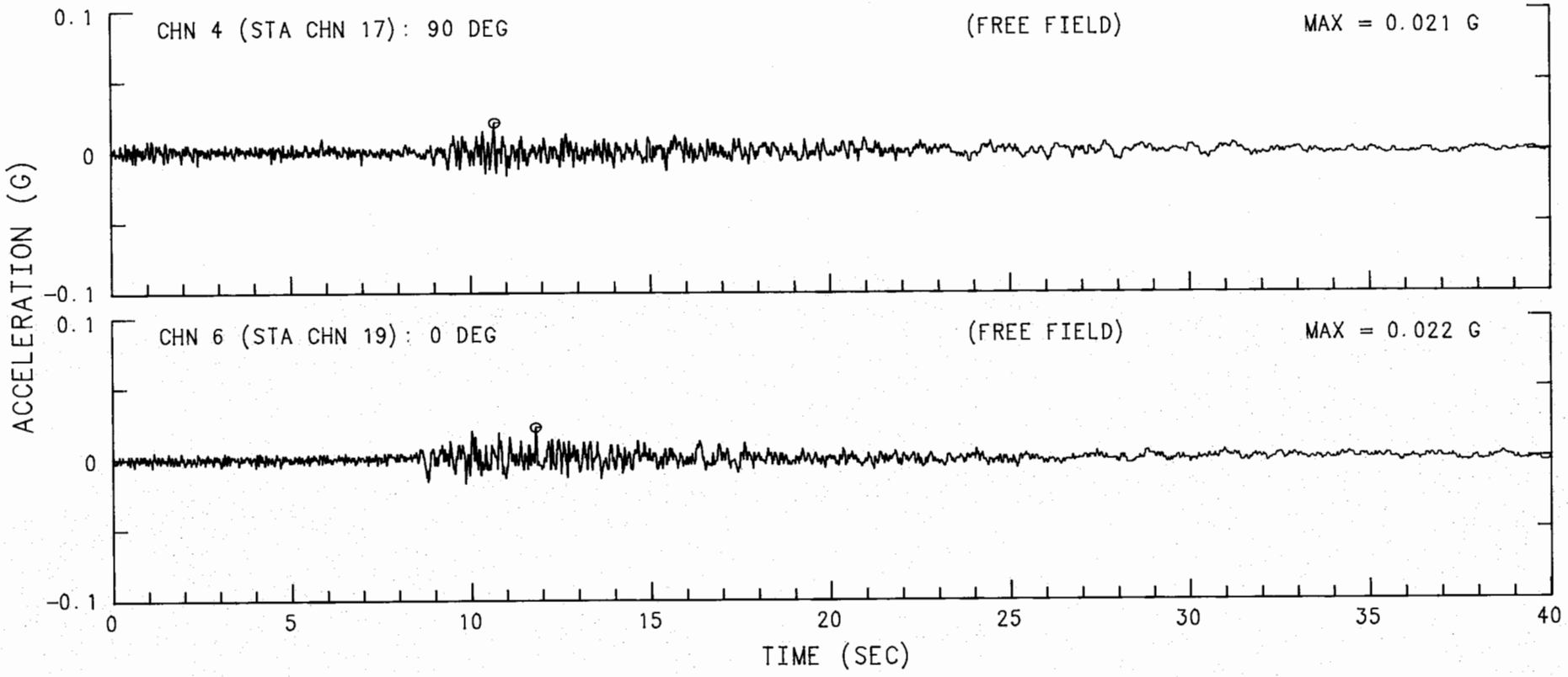
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
UNCORRECTED ACCELEROGRAM 23497-C0273-86189.04 082686.1831-QP86A497C1



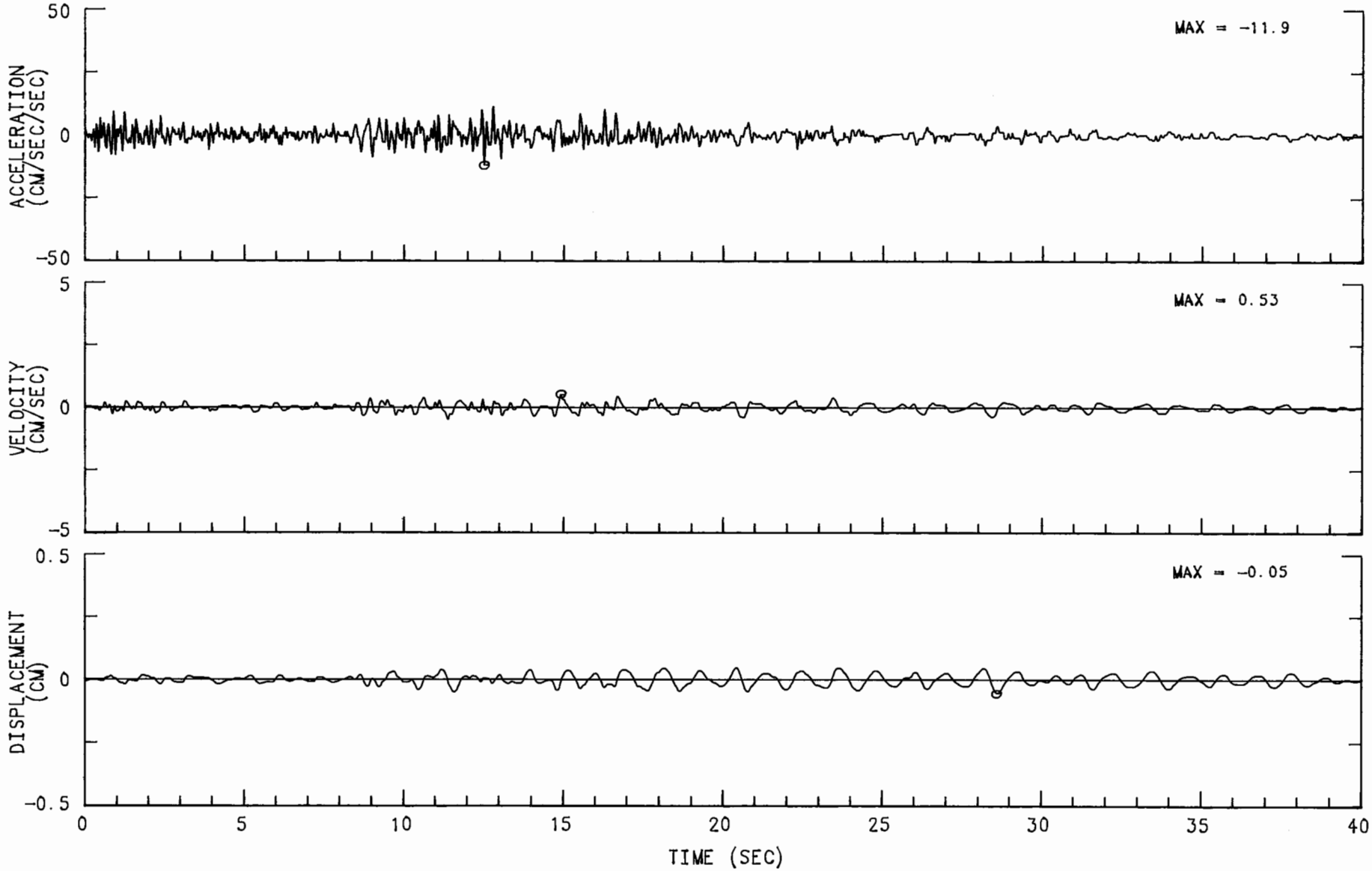
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
UNCORRECTED ACCELEROGRAM 23497-C0118-86189.01 082786.2041-QP86A497C2



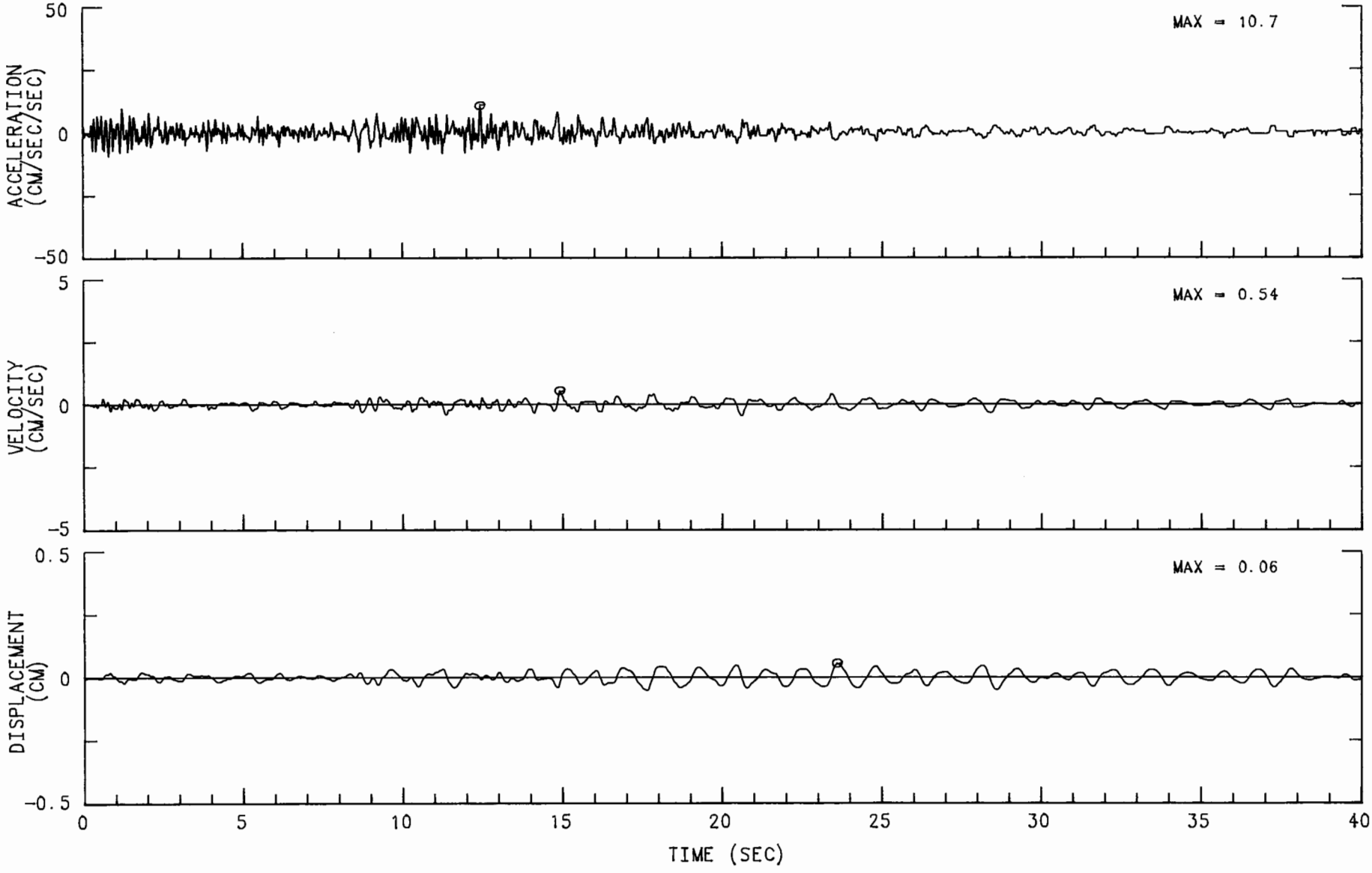
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
UNCORRECTED ACCELEROGRAM 23497-C0118-86189.01 082786.2041-QP86A497C2



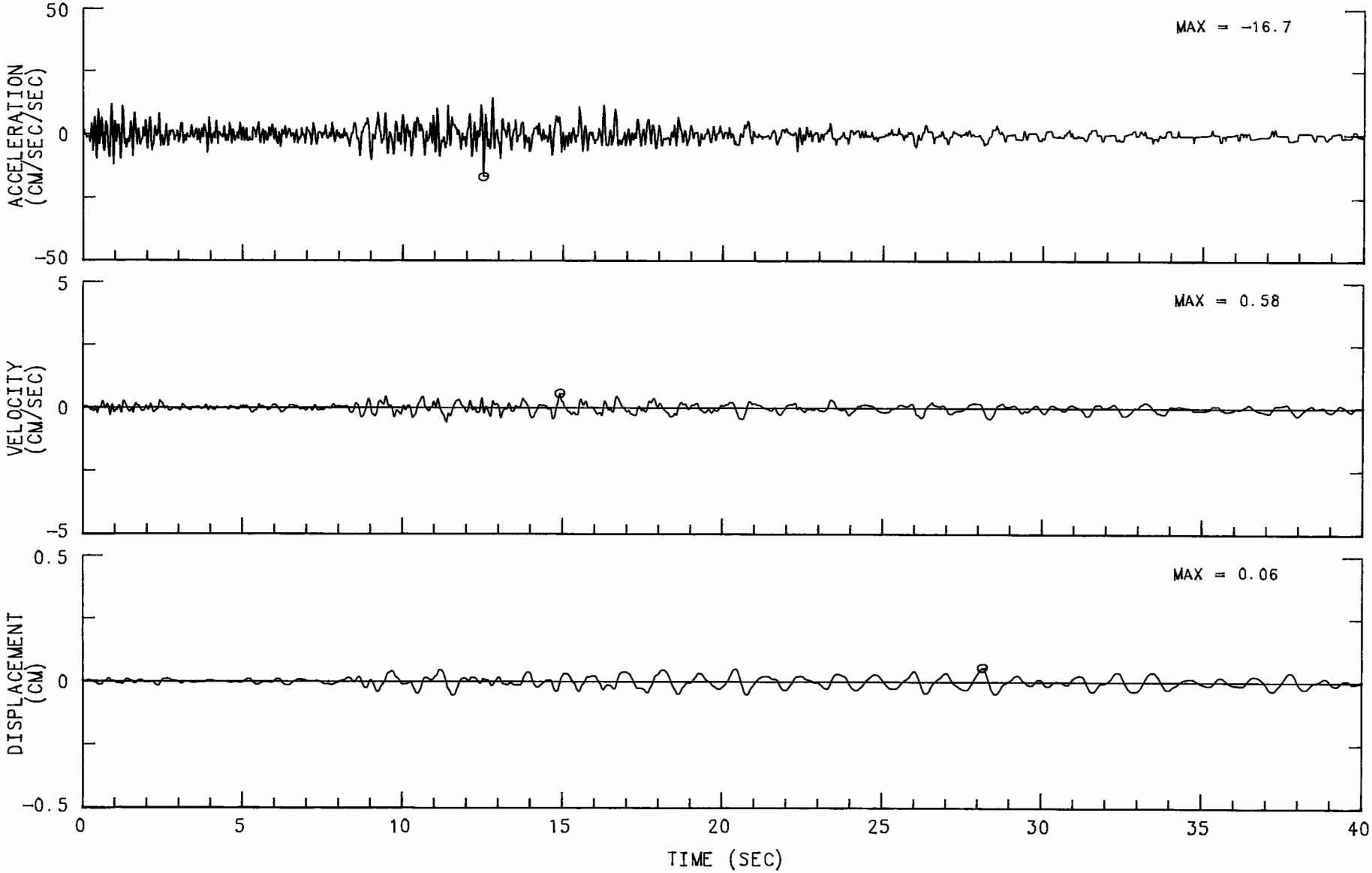
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 1: UP (FOUNDATION, AT SOUTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



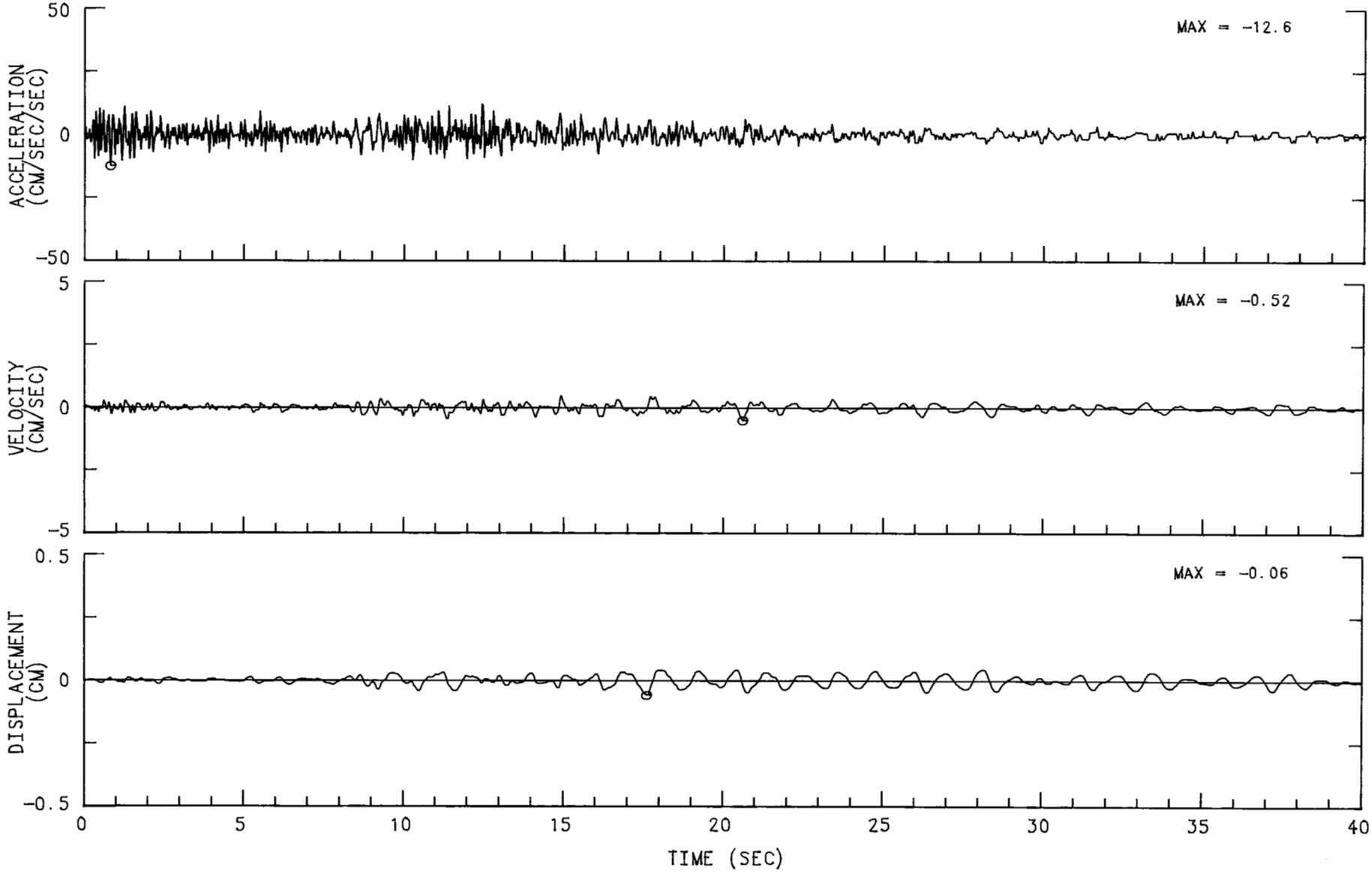
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 2: UP (FOUNDATION, AT NORTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



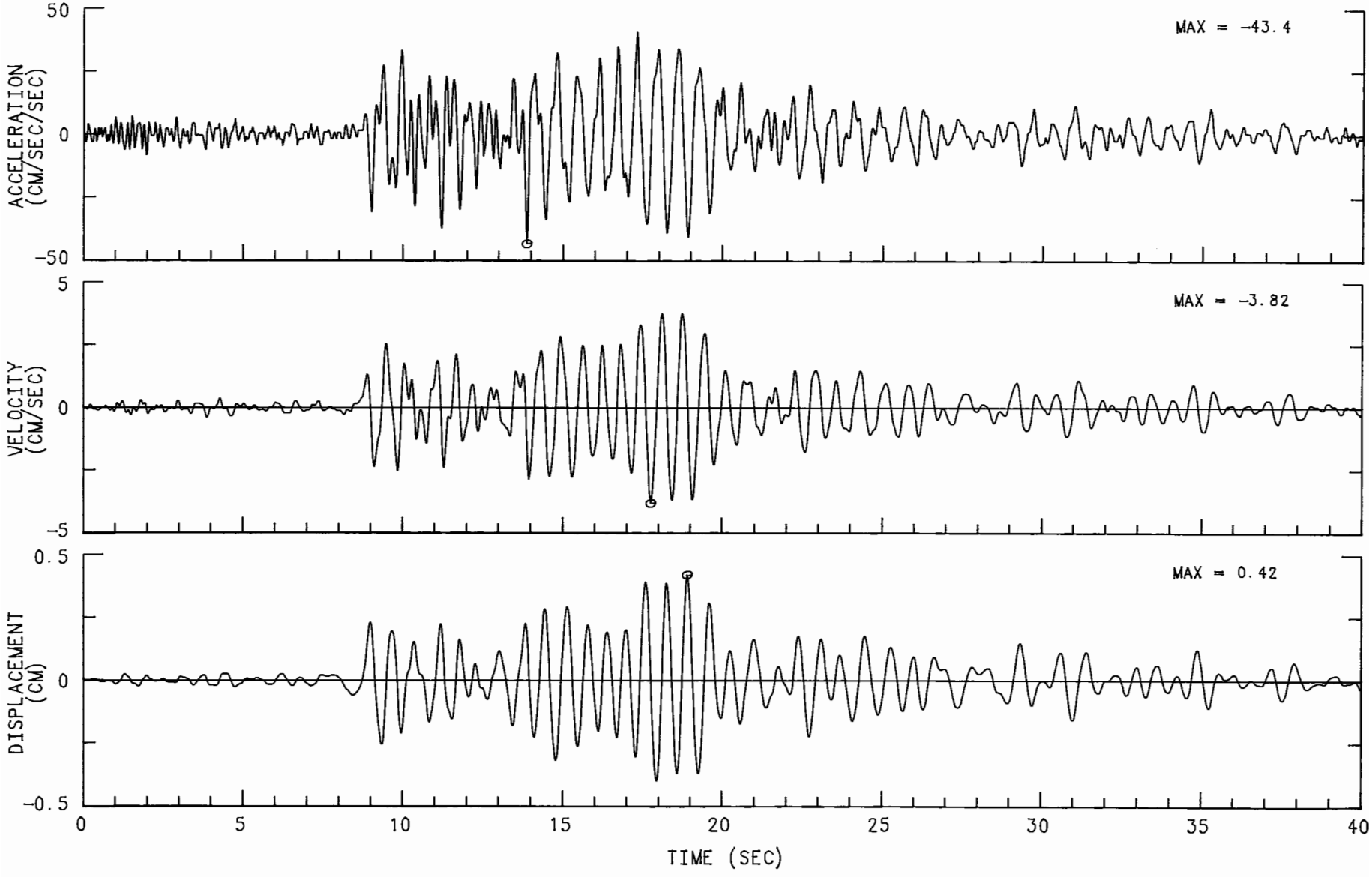
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 3: UP (BASEMENT, AT SOUTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



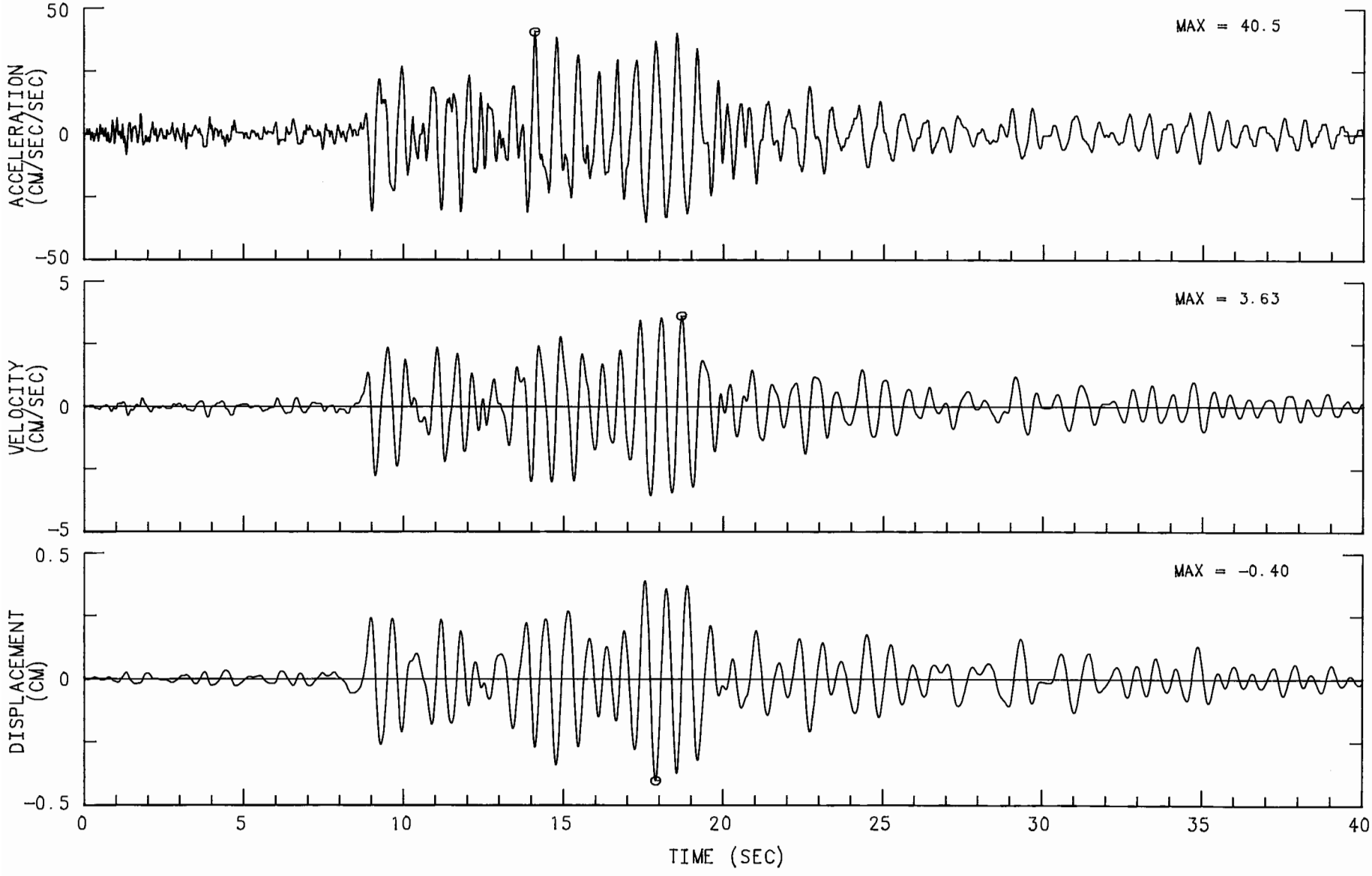
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 4: UP (BASEMENT, AT NORTH WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



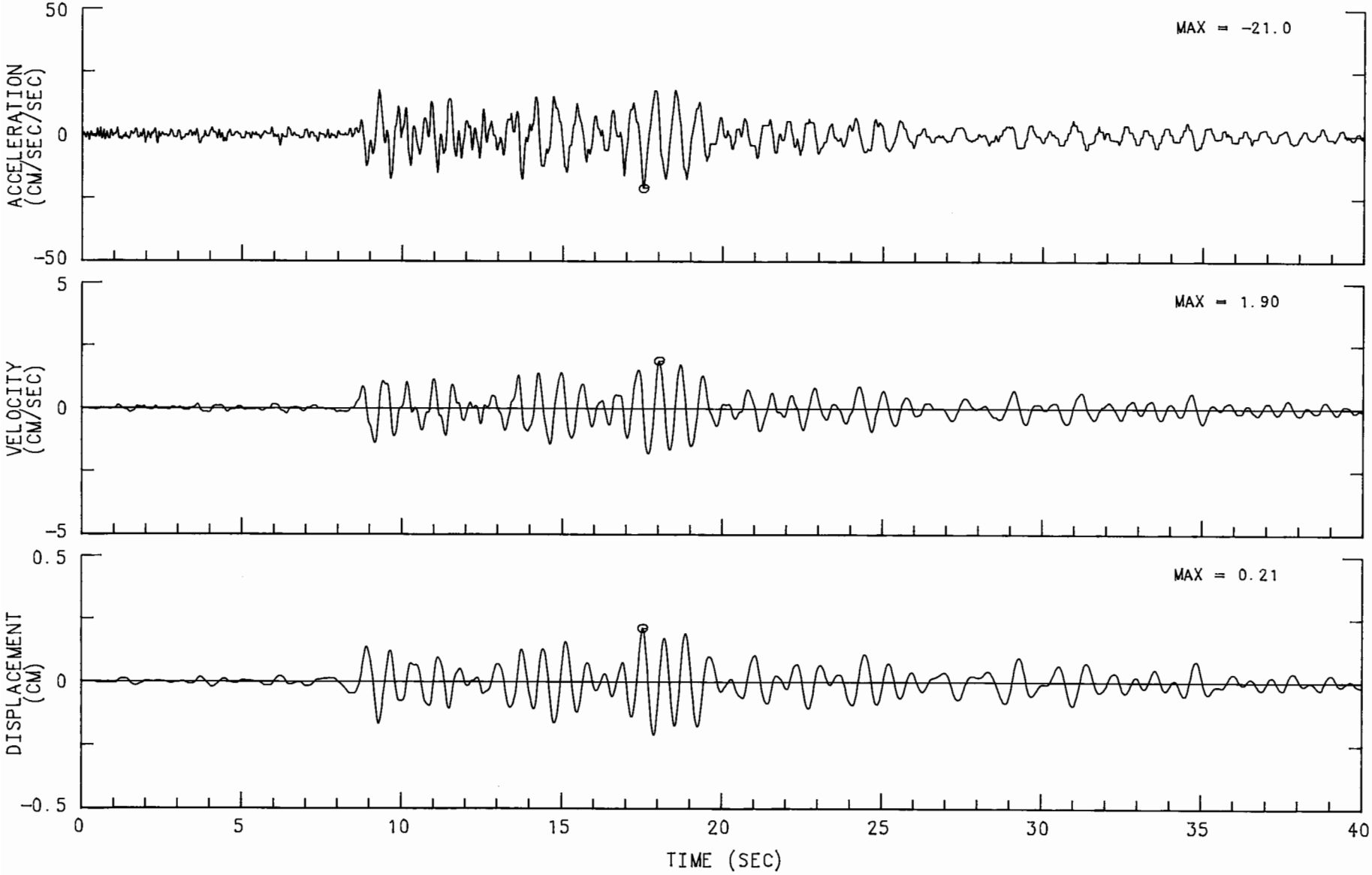
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 5: 0 DEG (ROOF, AT WEST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



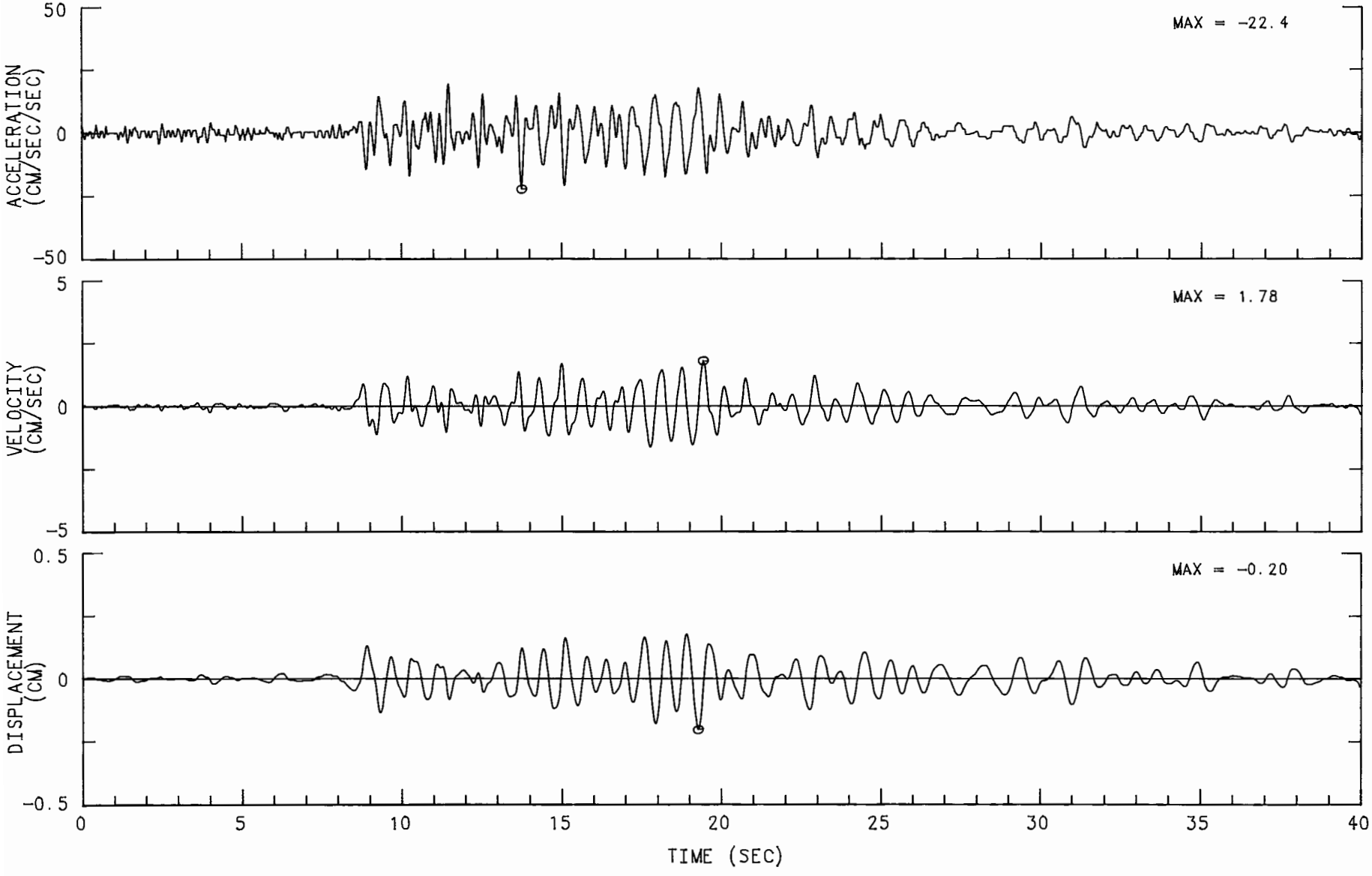
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 6: 0 DEG (ROOF, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



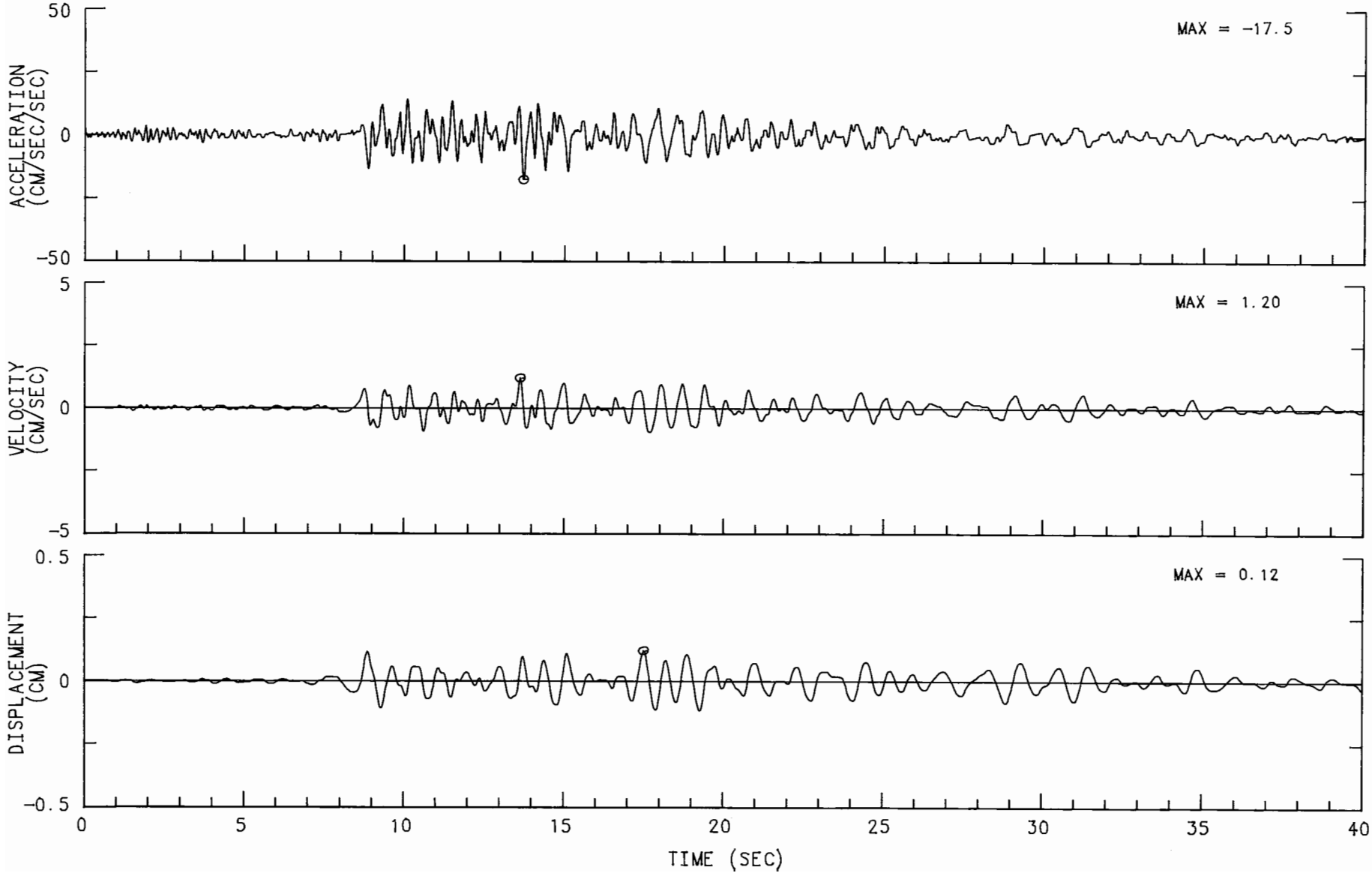
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA – LAW & JUSTICE BLDG. CHN 7: 0 DEG (2ND FLOOR, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



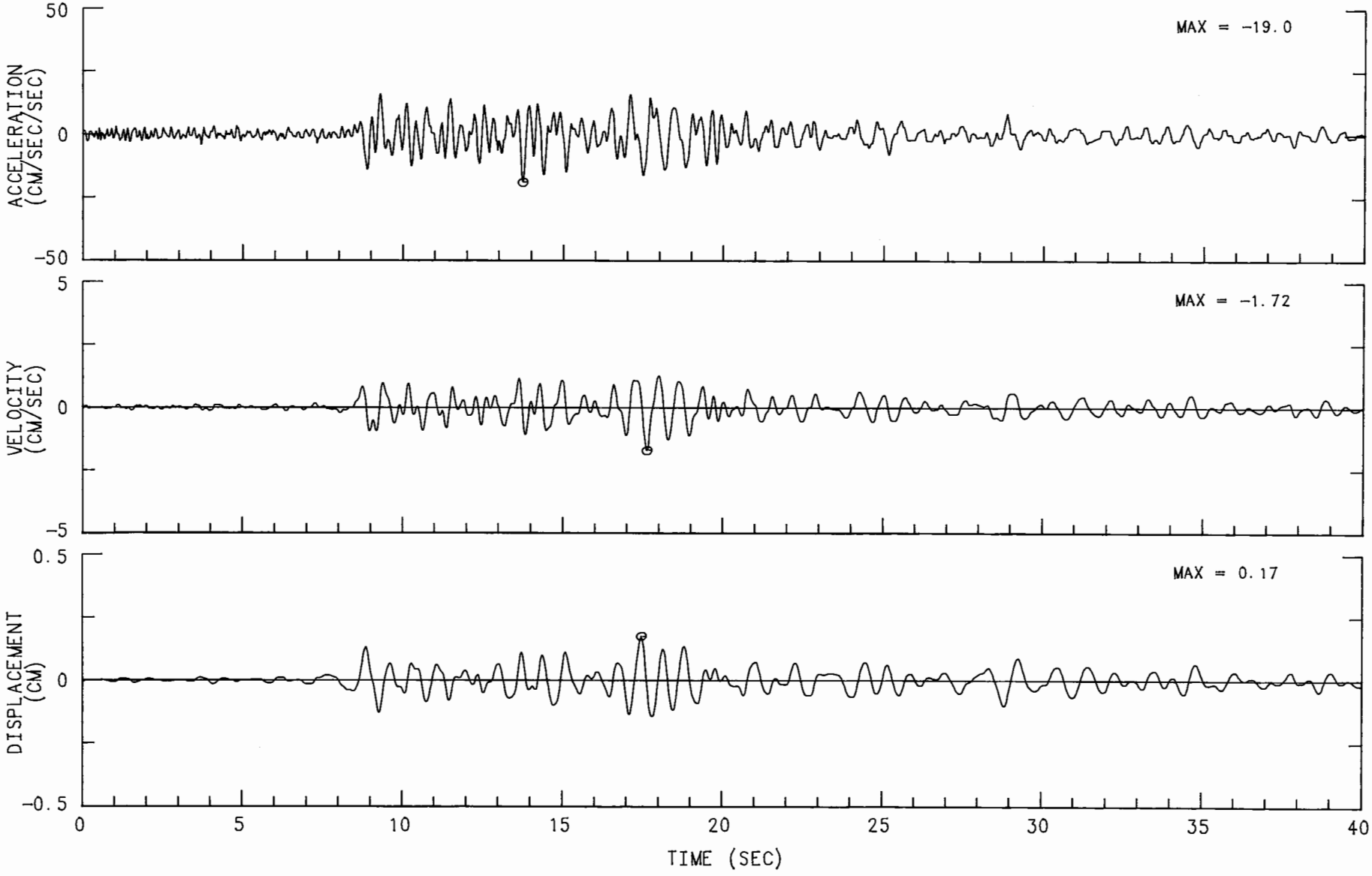
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA – LAW & JUSTICE BLDG. CHN 8: 0 DEG (BASEMENT, AT WEST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



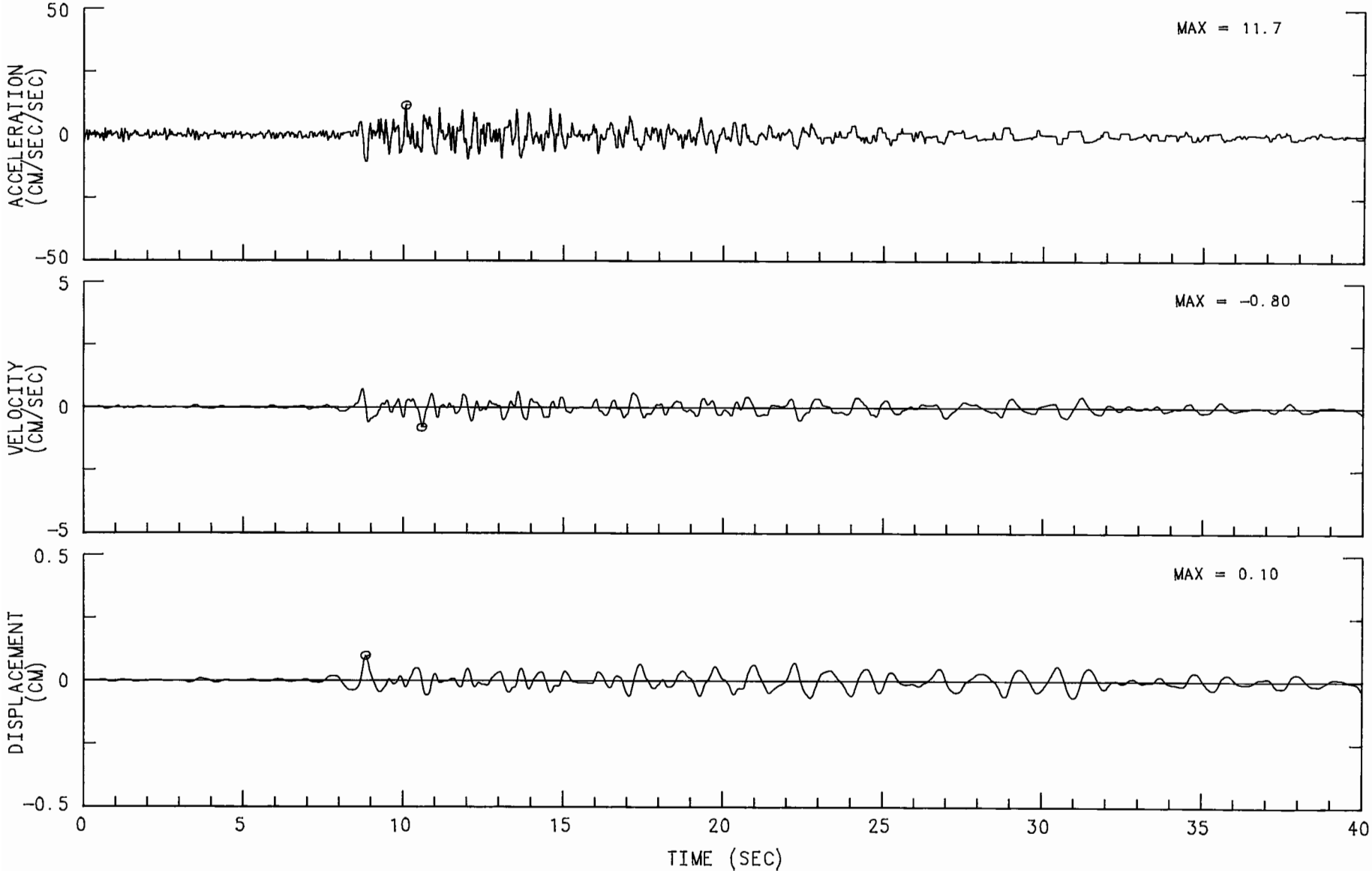
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 9: 0 DEG (BASEMENT, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



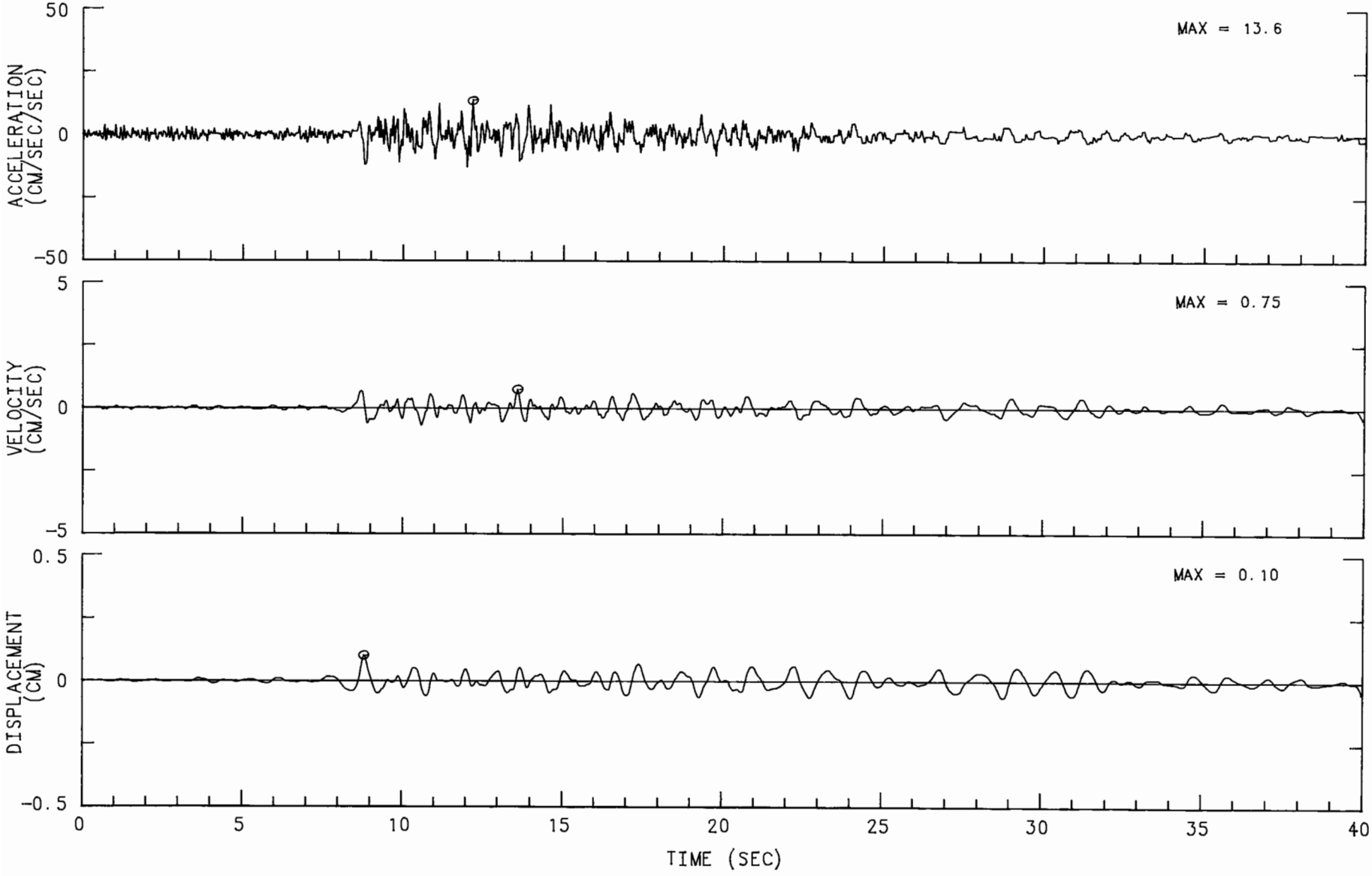
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 10: 0 DEG (BASEMENT, AT EAST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



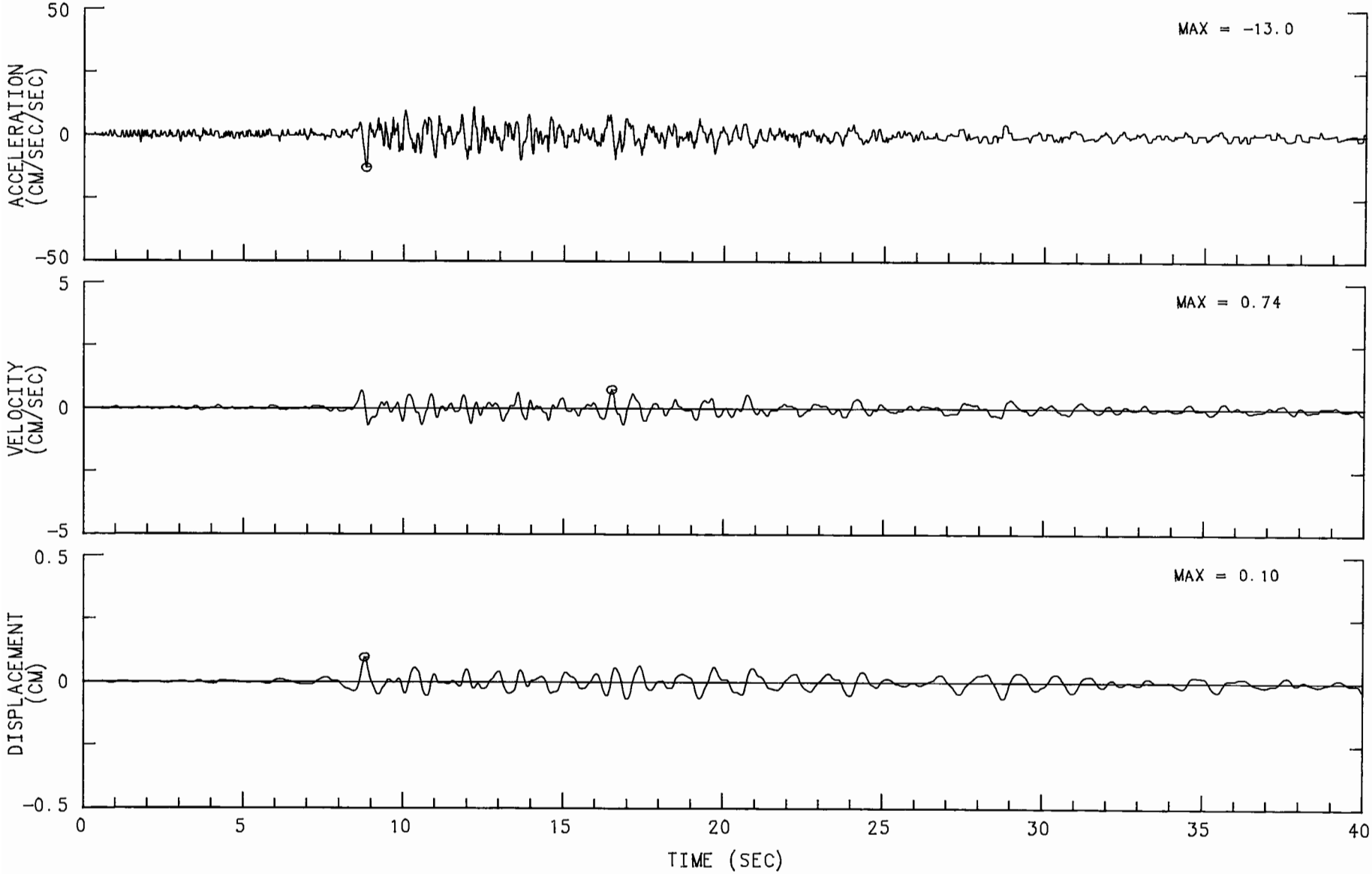
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 11: 0 DEG (FOUNDATION, AT WEST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



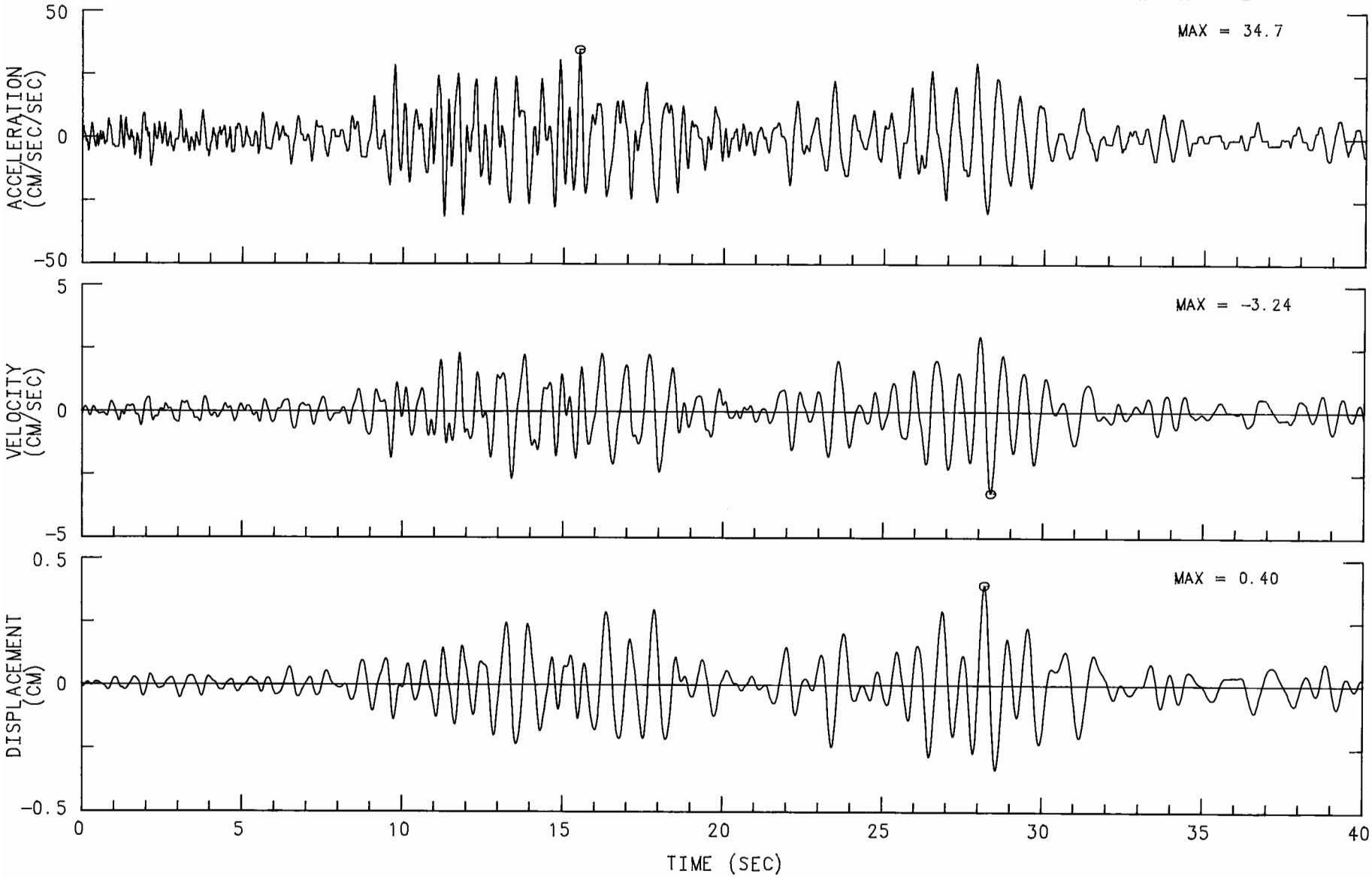
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 12: 0 DEG (FOUNDATION, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



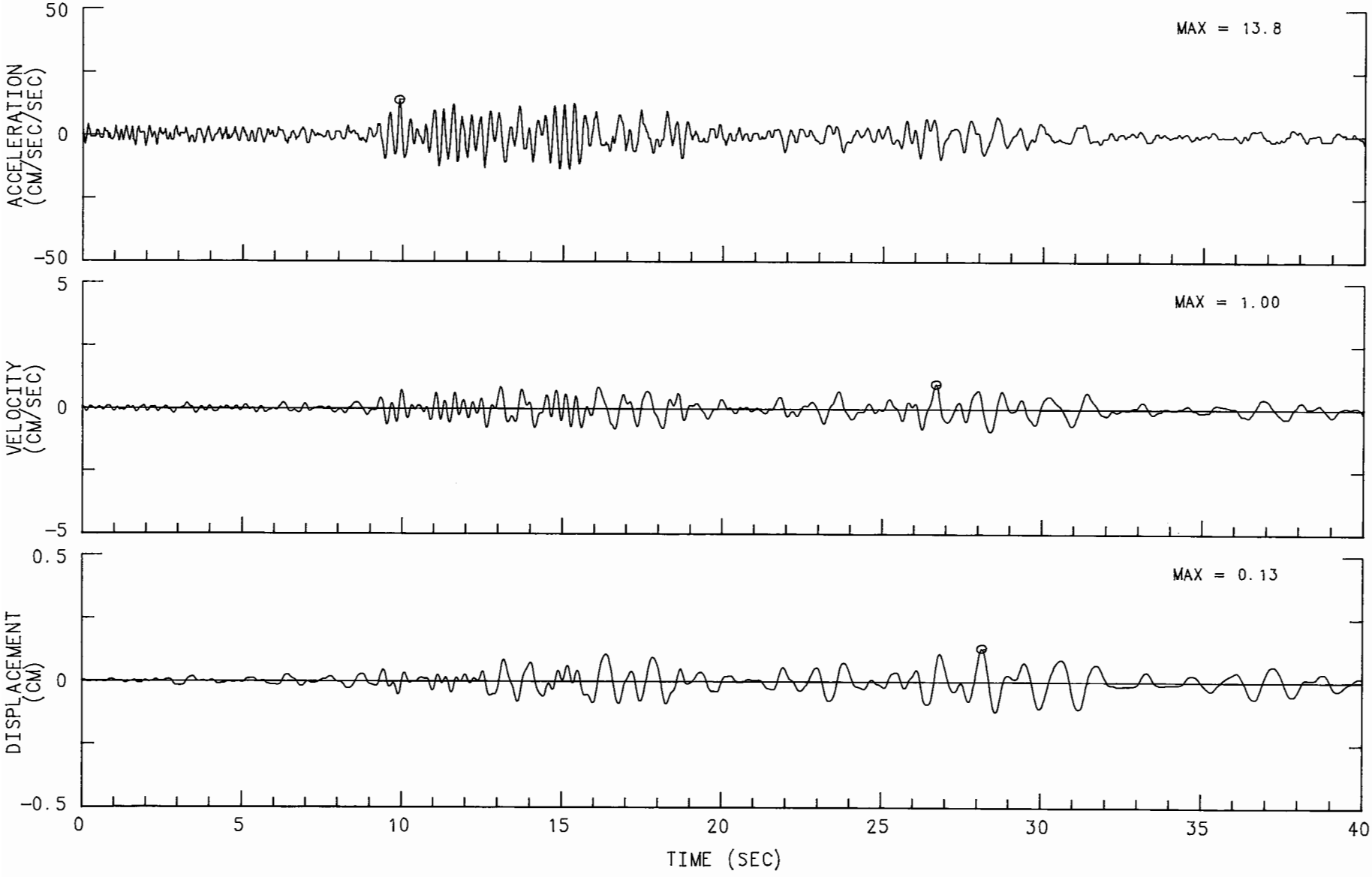
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 13: 0 DEG (FOUNDATION, AT EAST WALL)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: .40-.80 TO 23.0-25.0 HZ. 23497-C0273-86189.04 082786.2012-QP86A497C1



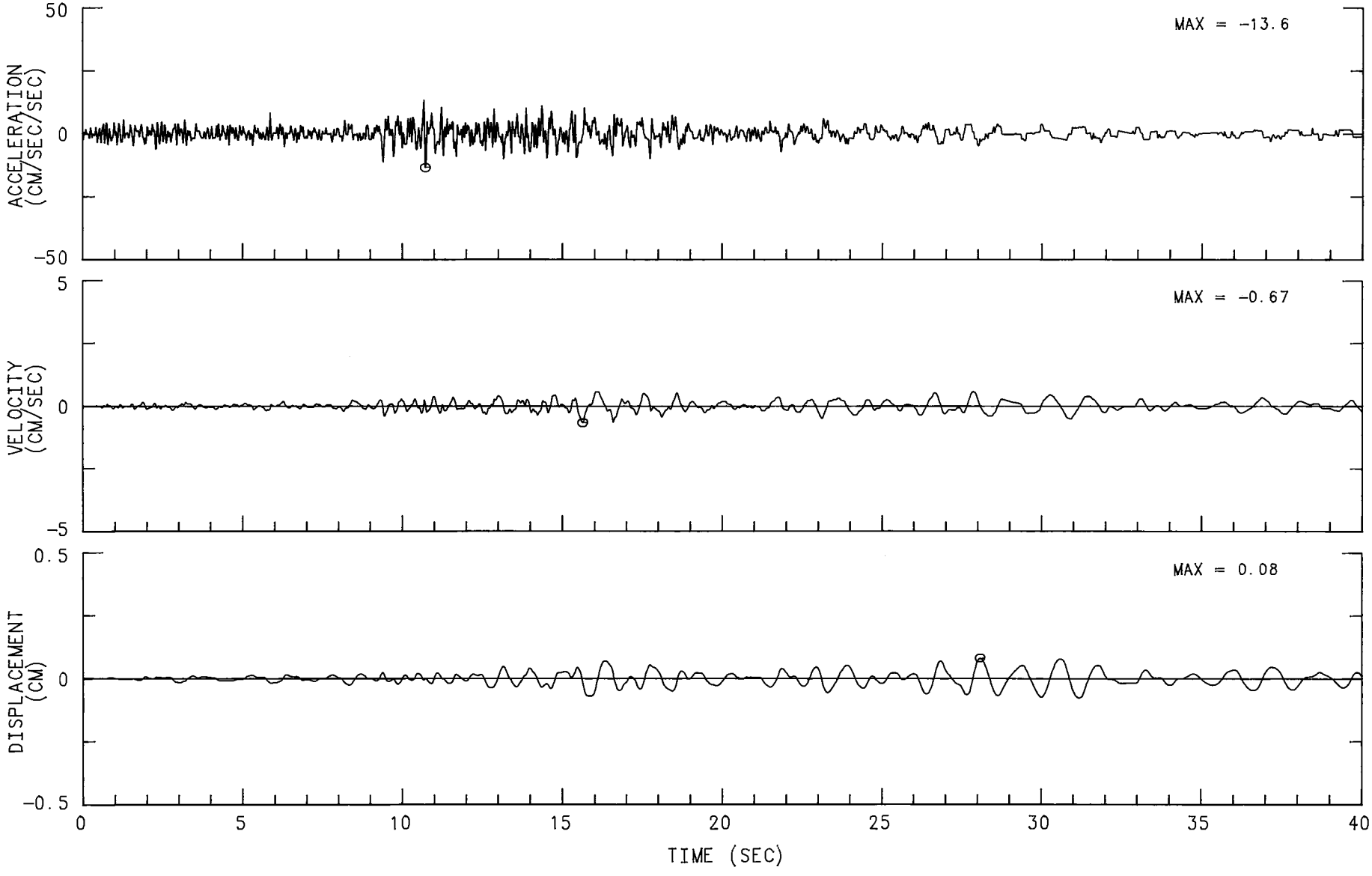
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 1 (STA CHN 14): 90 DEG (ROOF, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 0.40-0.80 TO 23.0-25.0 HZ. 23497-C0118-86189.01 011287.0954-QP86A497C2



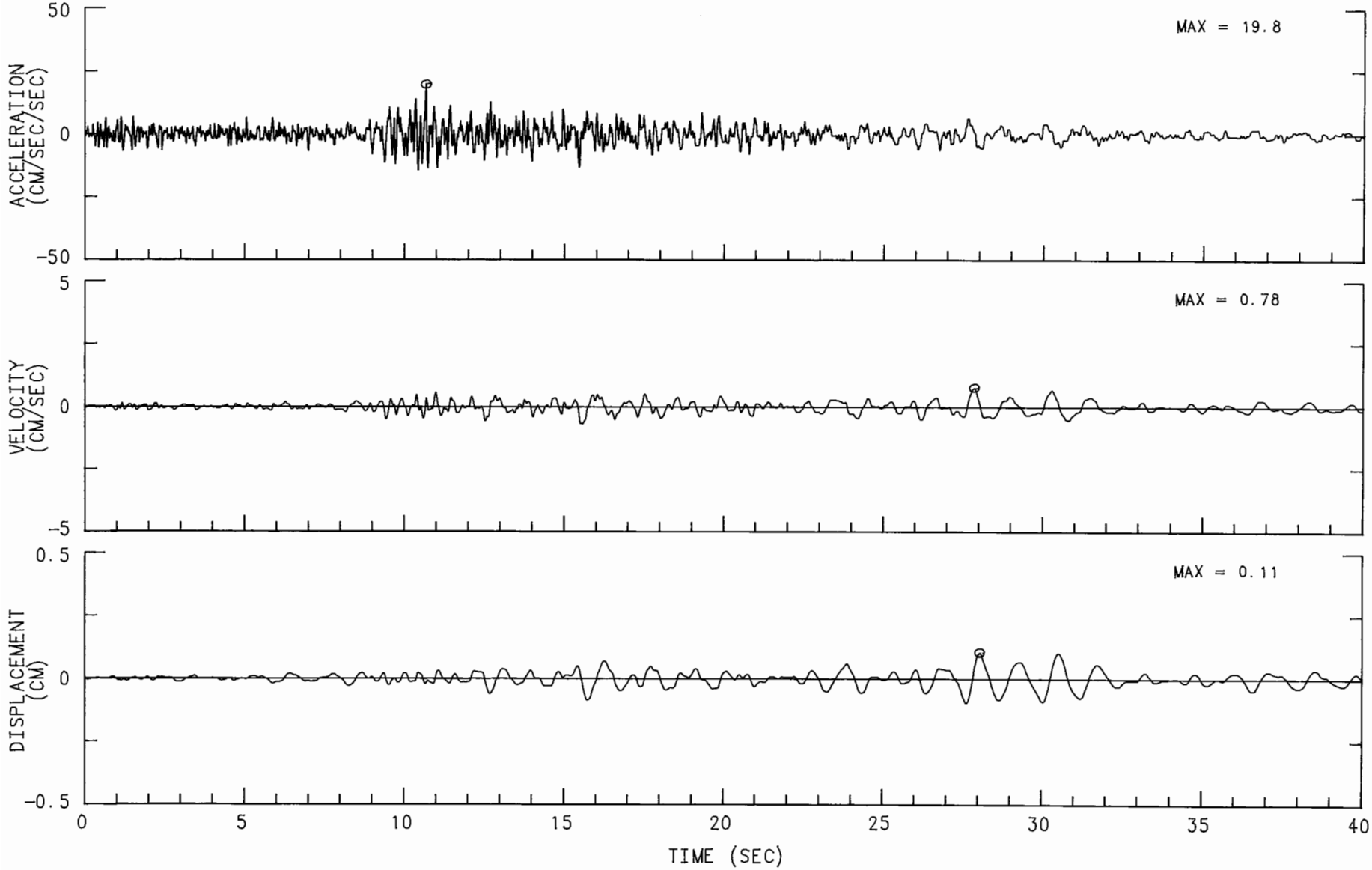
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA – LAW & JUSTICE BLDG. CHN 2 (STA CHN 15): 90 DEG (BASEMENT, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 0.40-0.80 TO 23.0-25.0 HZ. 23497-C0118-86189.01 011287.0954-QP86A497C2



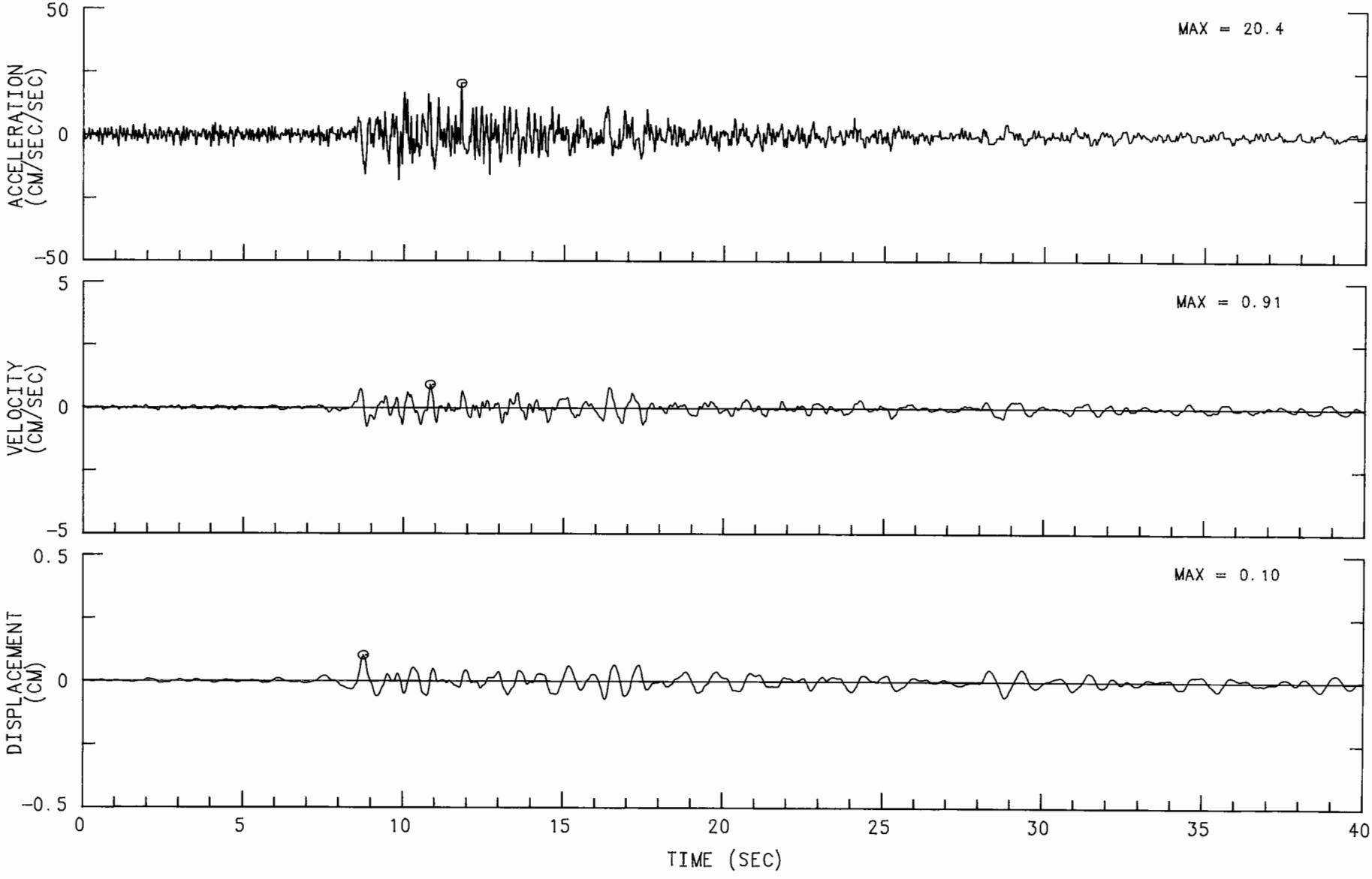
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 3 (STA CHN 16): 90 DEG (FOUNDATION, AT CENTER)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 0.40-0.80 TO 23.0-25.0 HZ. 23497-C0118-86189.01 011287.0954-QP86A497C2



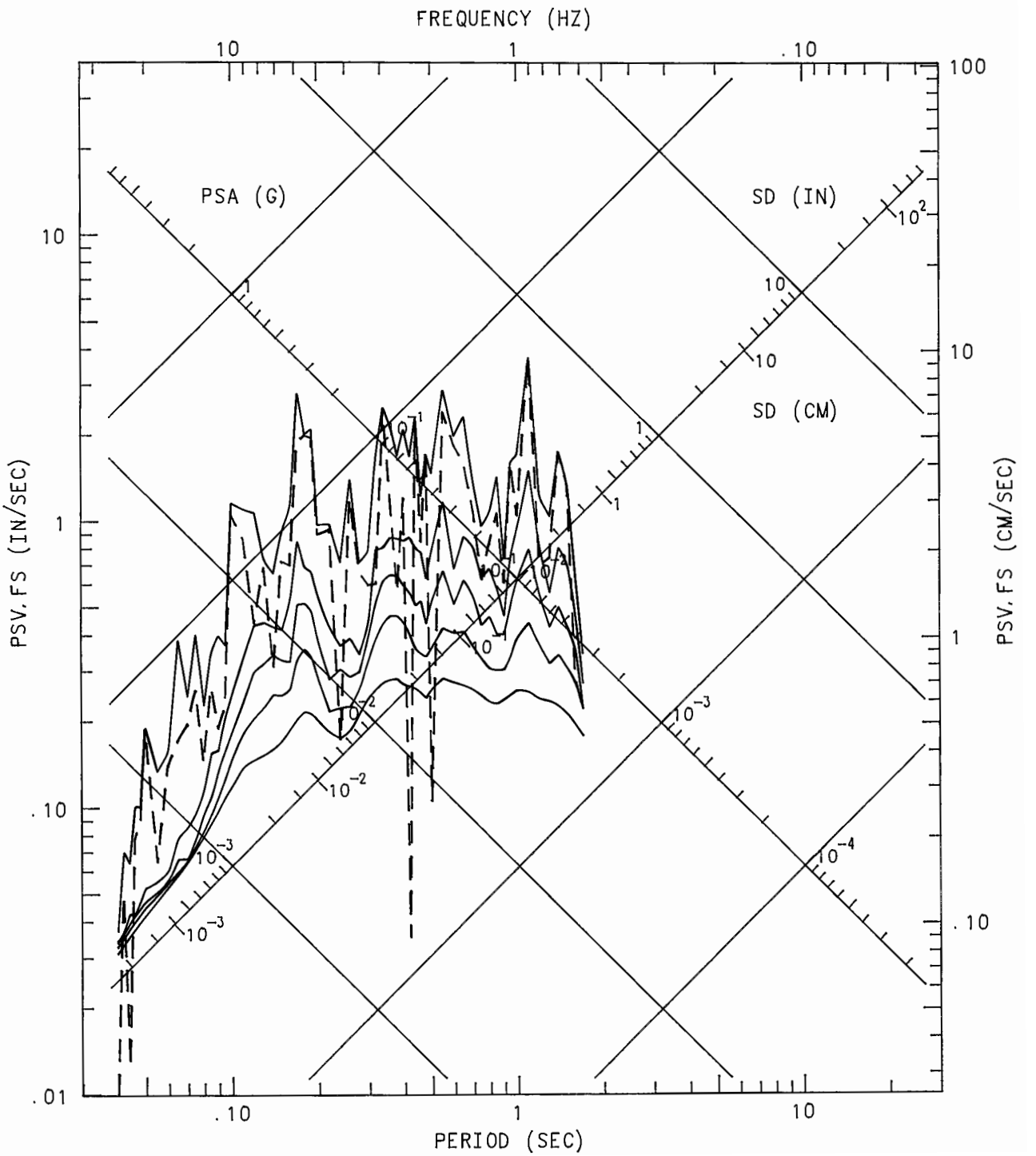
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG. CHN 4 (STA CHN 17): 90 DEG (FREE FIELD)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 0.40-0.80 TO 23.0-25.0 HZ. 23497-C0118-86189.01 011287.0954-QP86A497C2



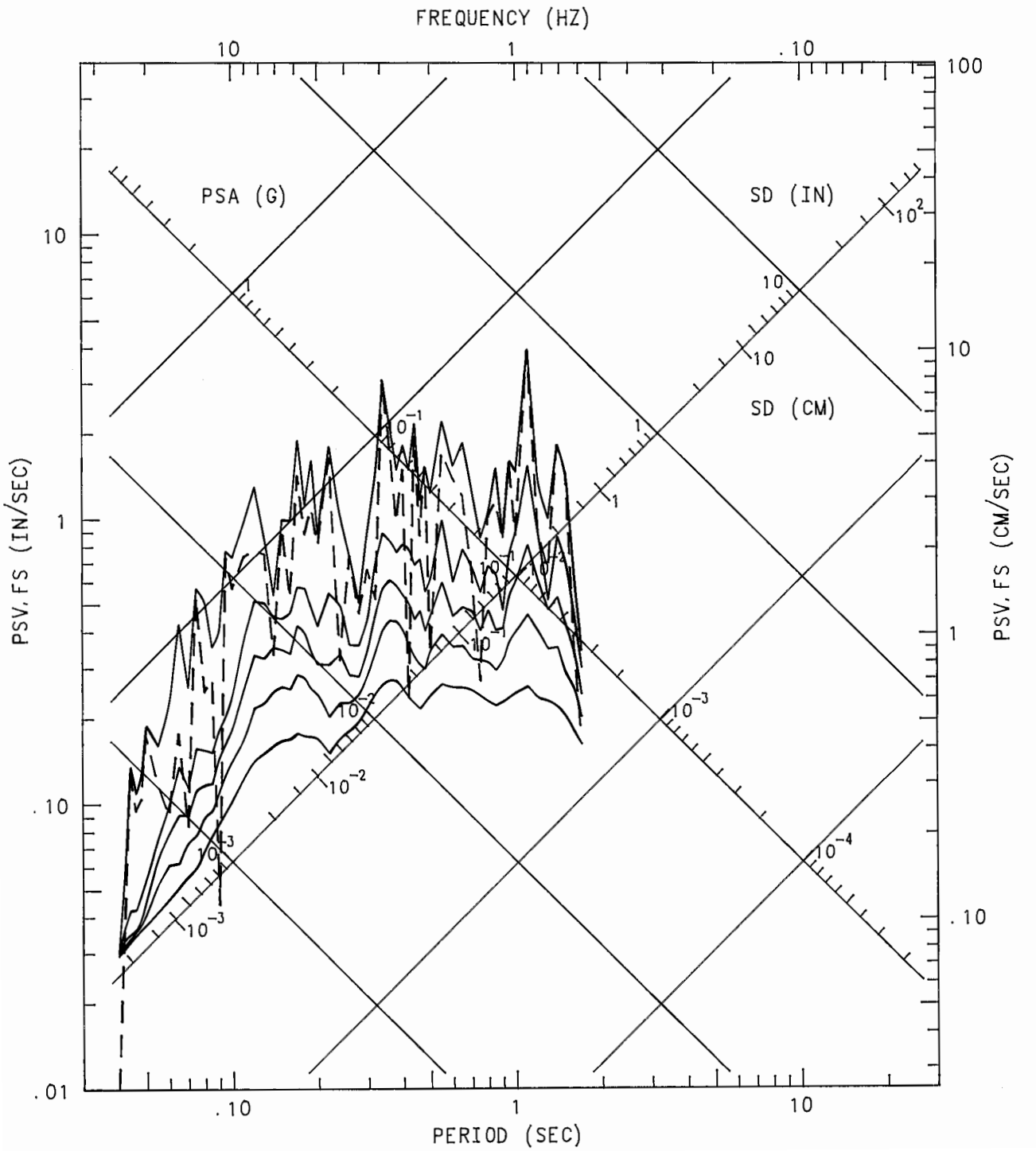
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA – LAW & JUSTICE BLDG. CHN 6 (STA CHN 19): 0 DEG (FREE FIELD)
INSTRUMENT-CORRECTED AND BANDPASS-FILTERED ACCELERATION, VELOCITY AND DISPLACEMENT
FILTER BAND: 0.40-0.80 TO 23.0-25.0 HZ. 23497-C0118-86189.01 011287.0954-QP86A497C2



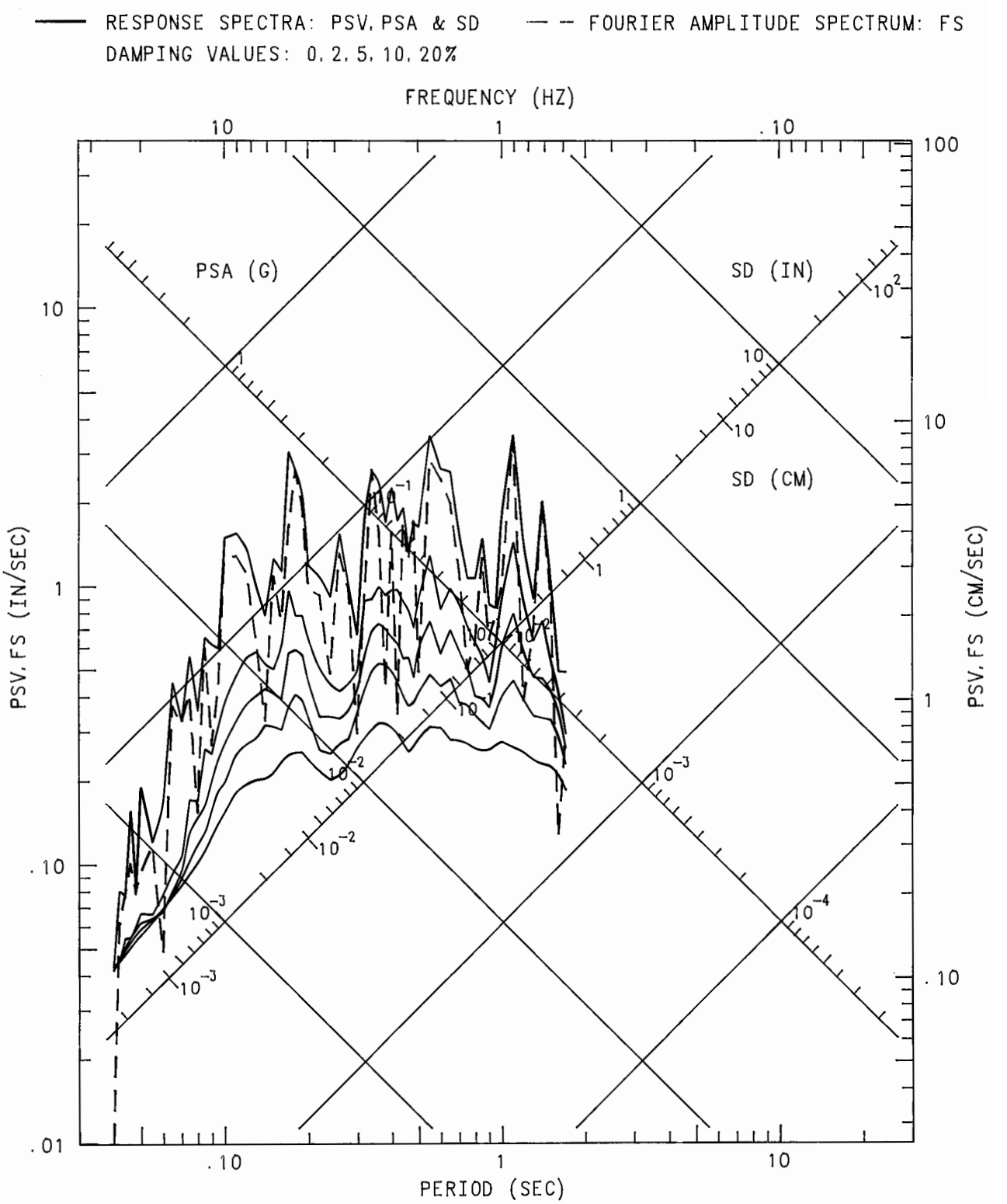
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 1: UP (FOUNDATION, AT SOUTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



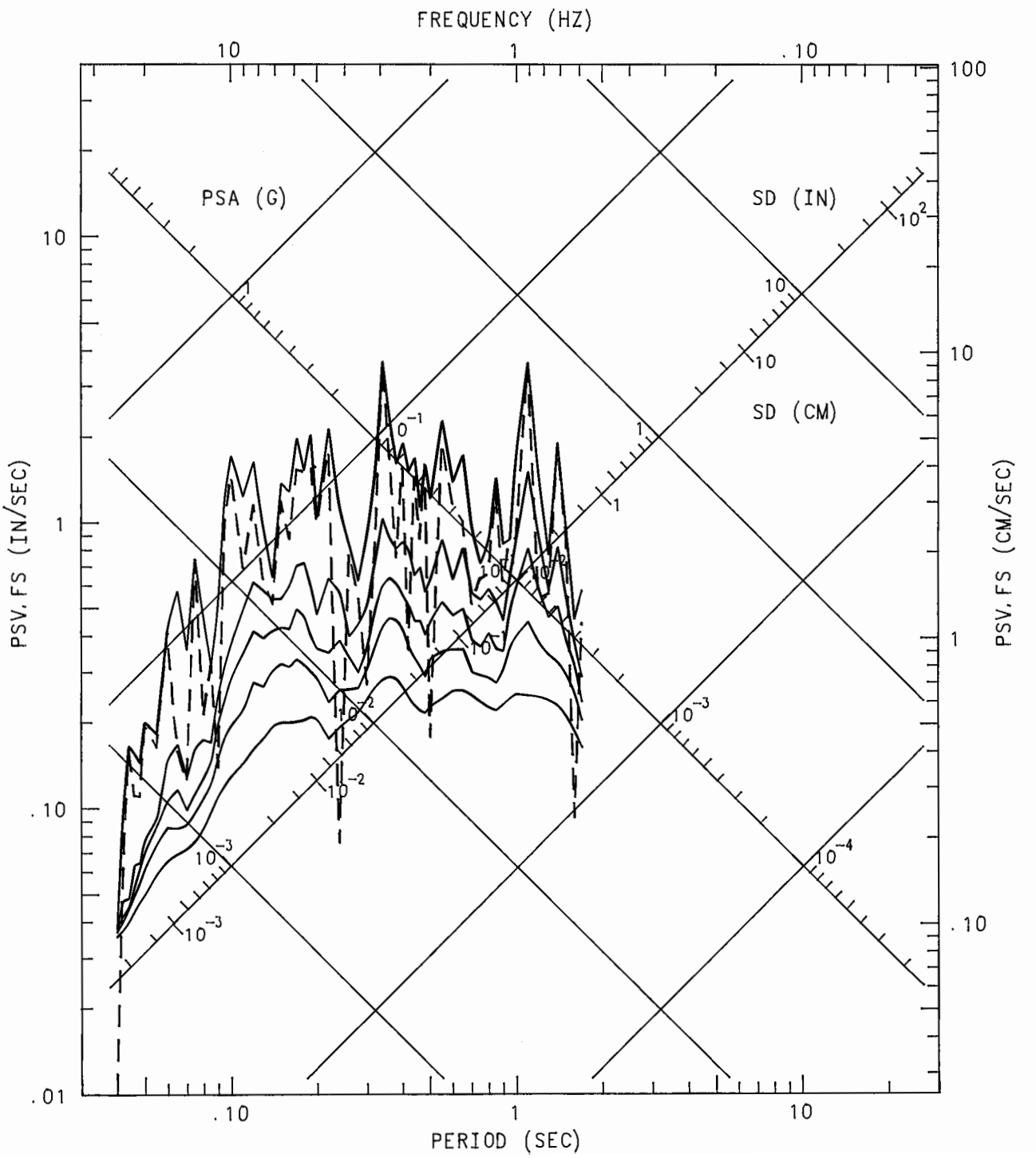
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 2: UP (FOUNDATION, AT NORTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



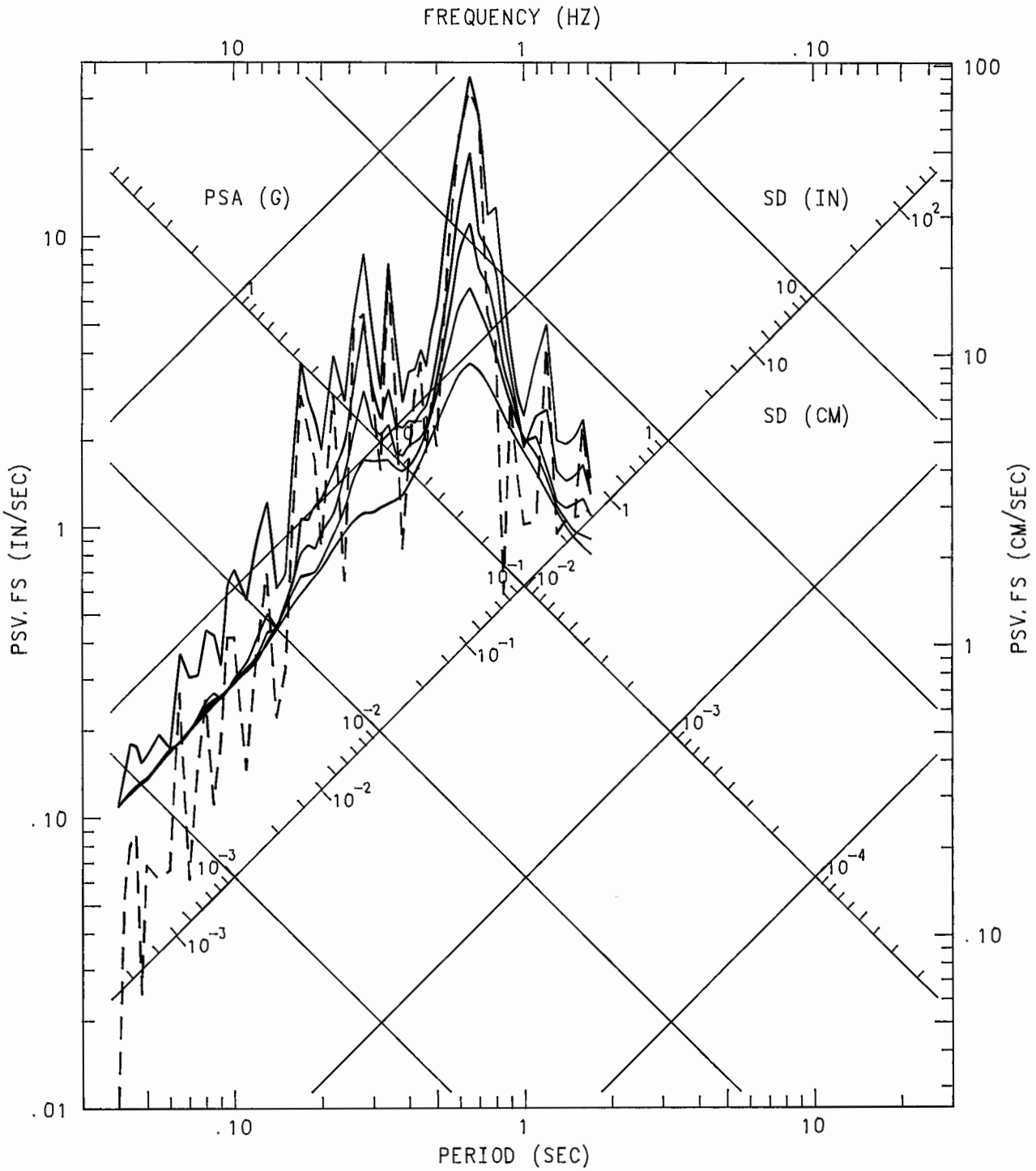
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 3: UP (BASEMENT, AT SOUTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



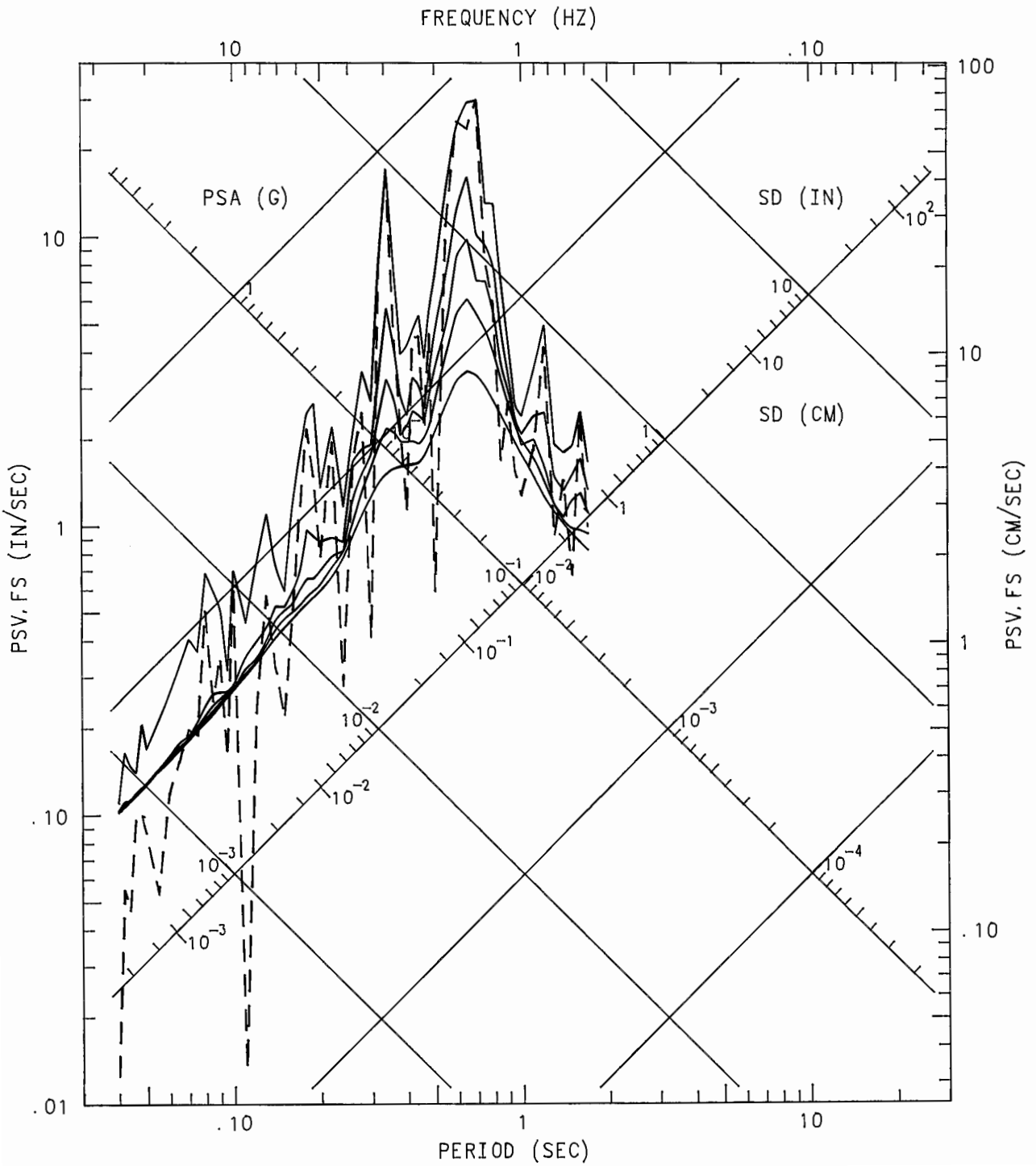
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 4: UP (BASEMENT, AT NORTH WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



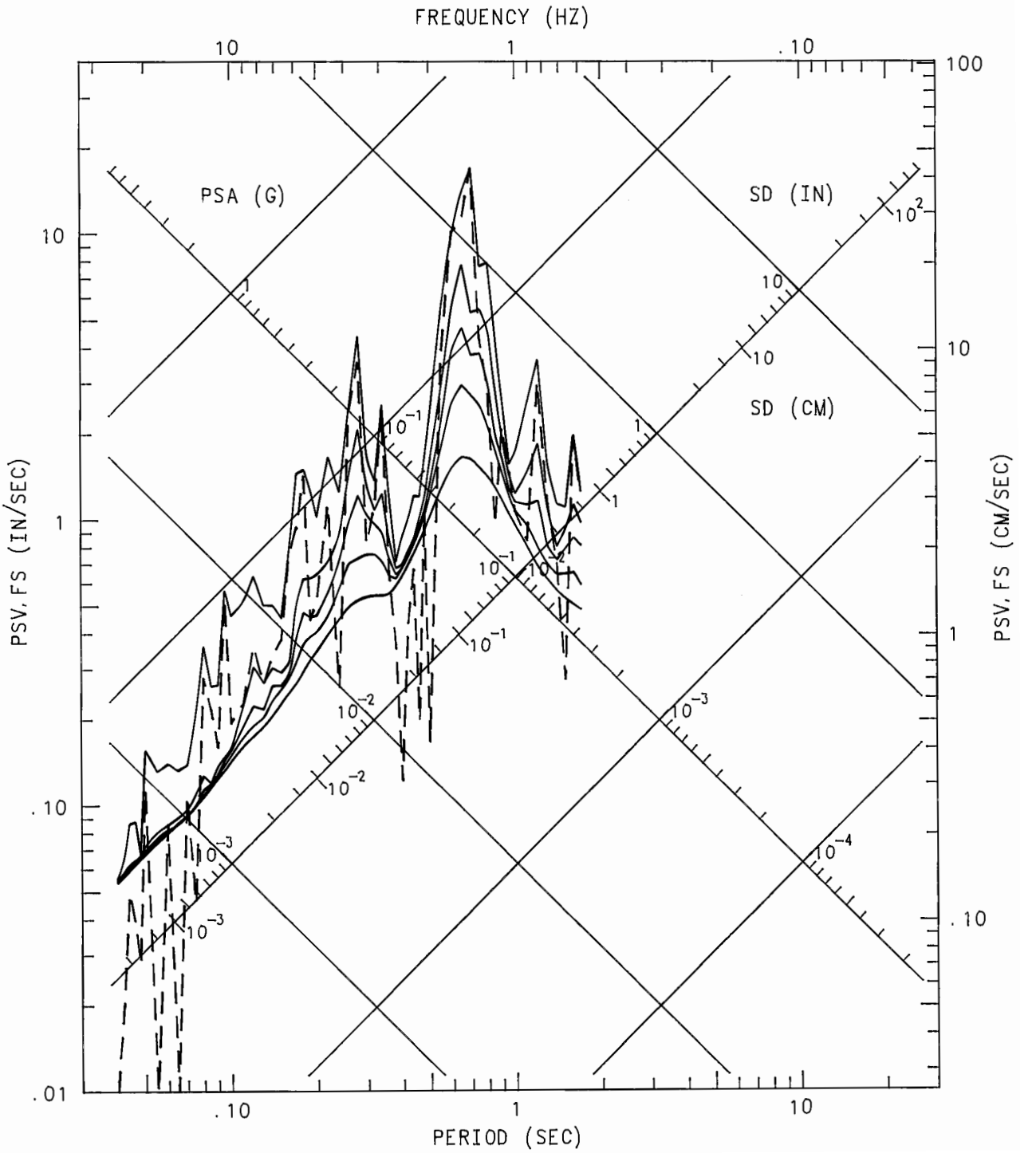
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 5: 0 DEG (ROOF, AT WEST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



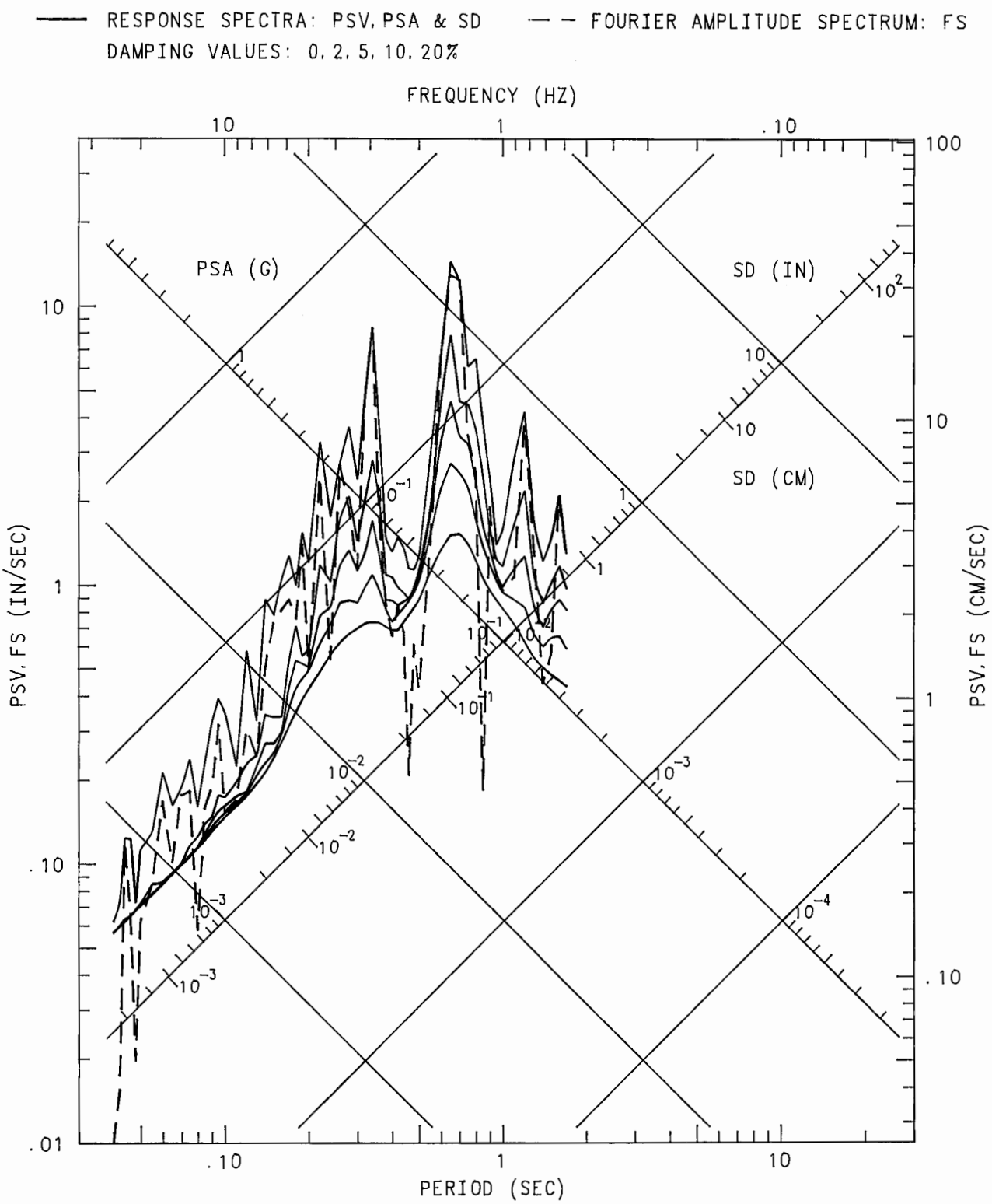
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 6: 0 DEG (ROOF, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



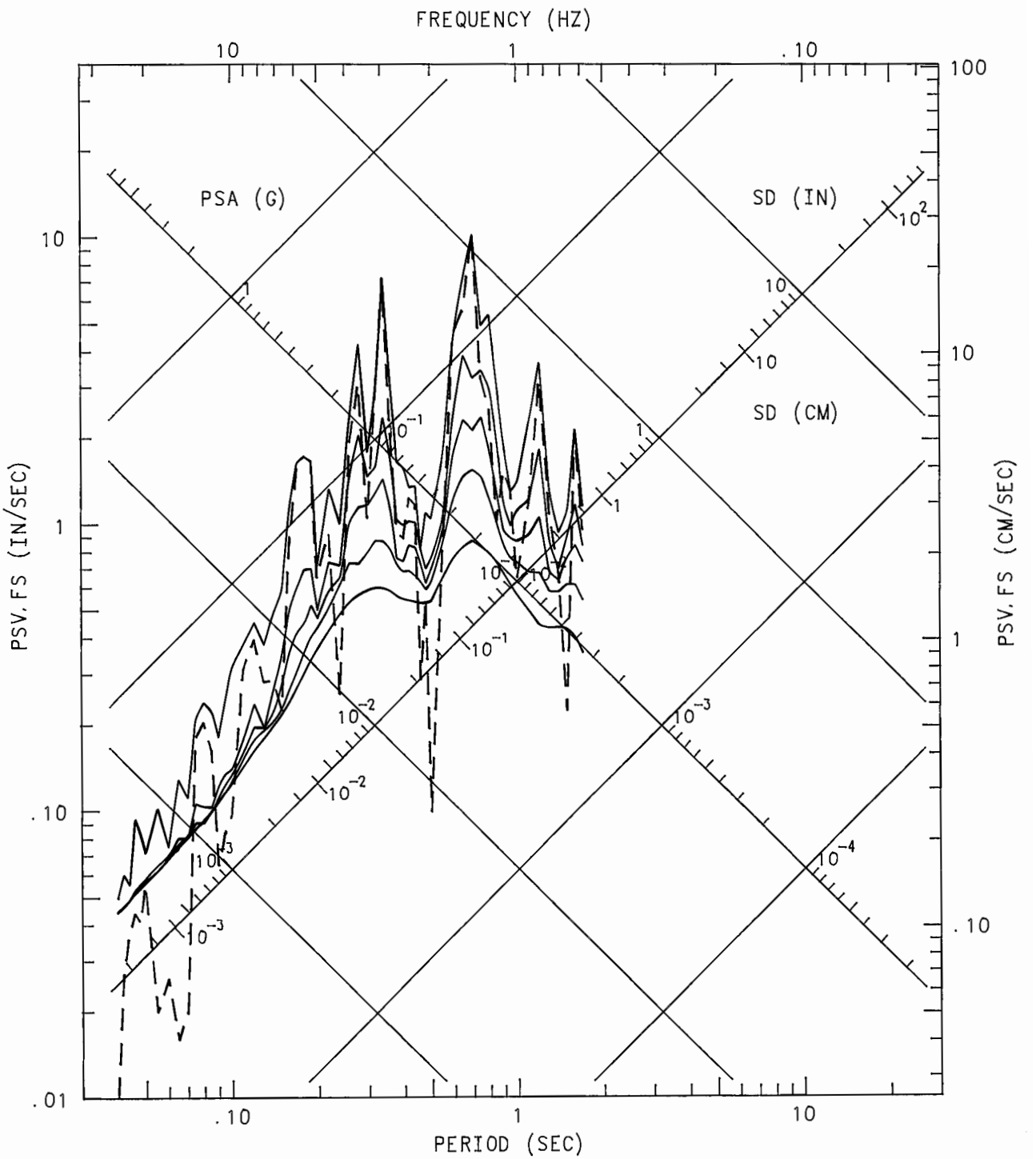
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 7: 0 DEG (2ND FLOOR, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



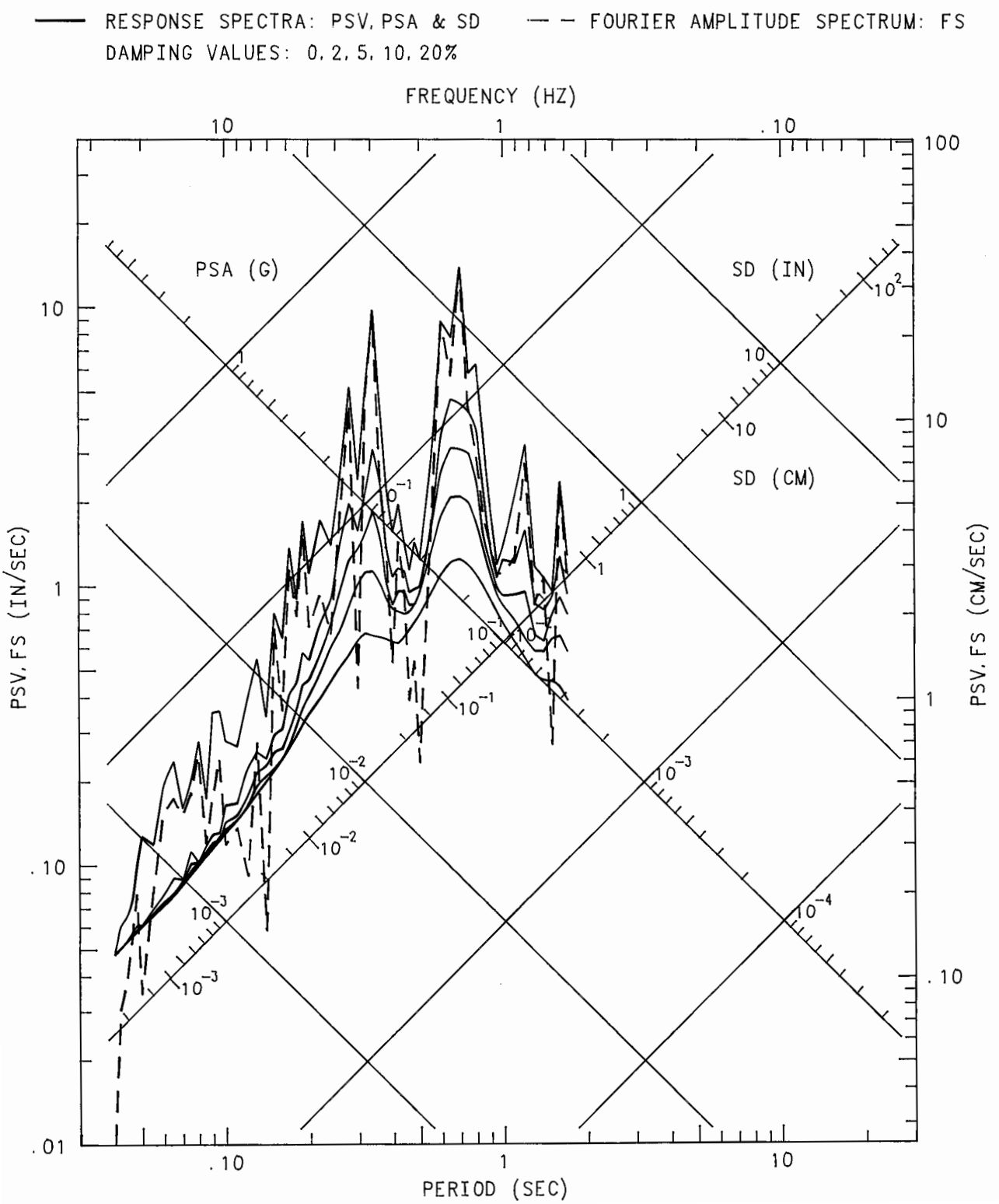
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 8: 0 DEG (BASEMENT, AT WEST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



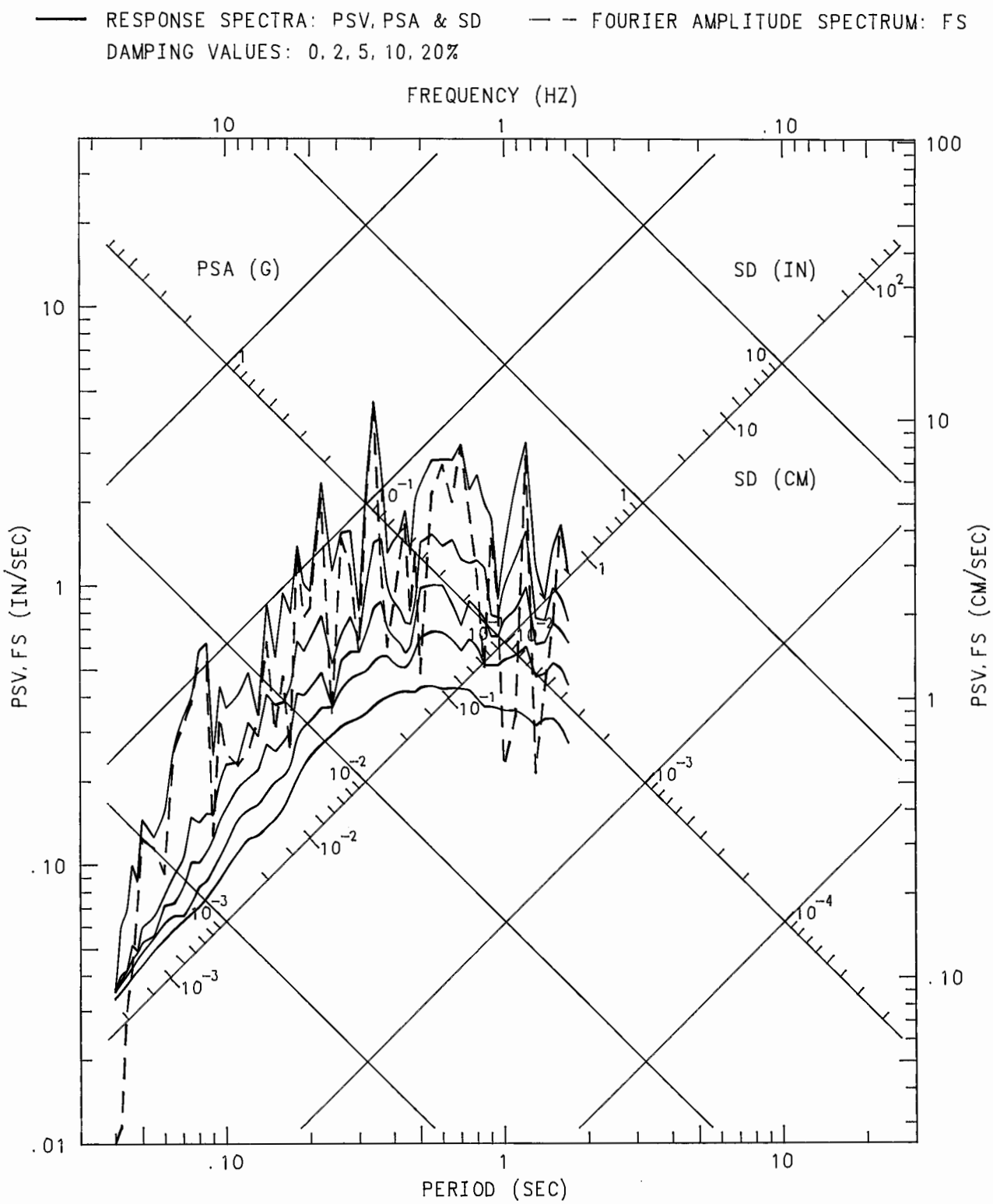
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 9: 0 DEG (BASEMENT, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



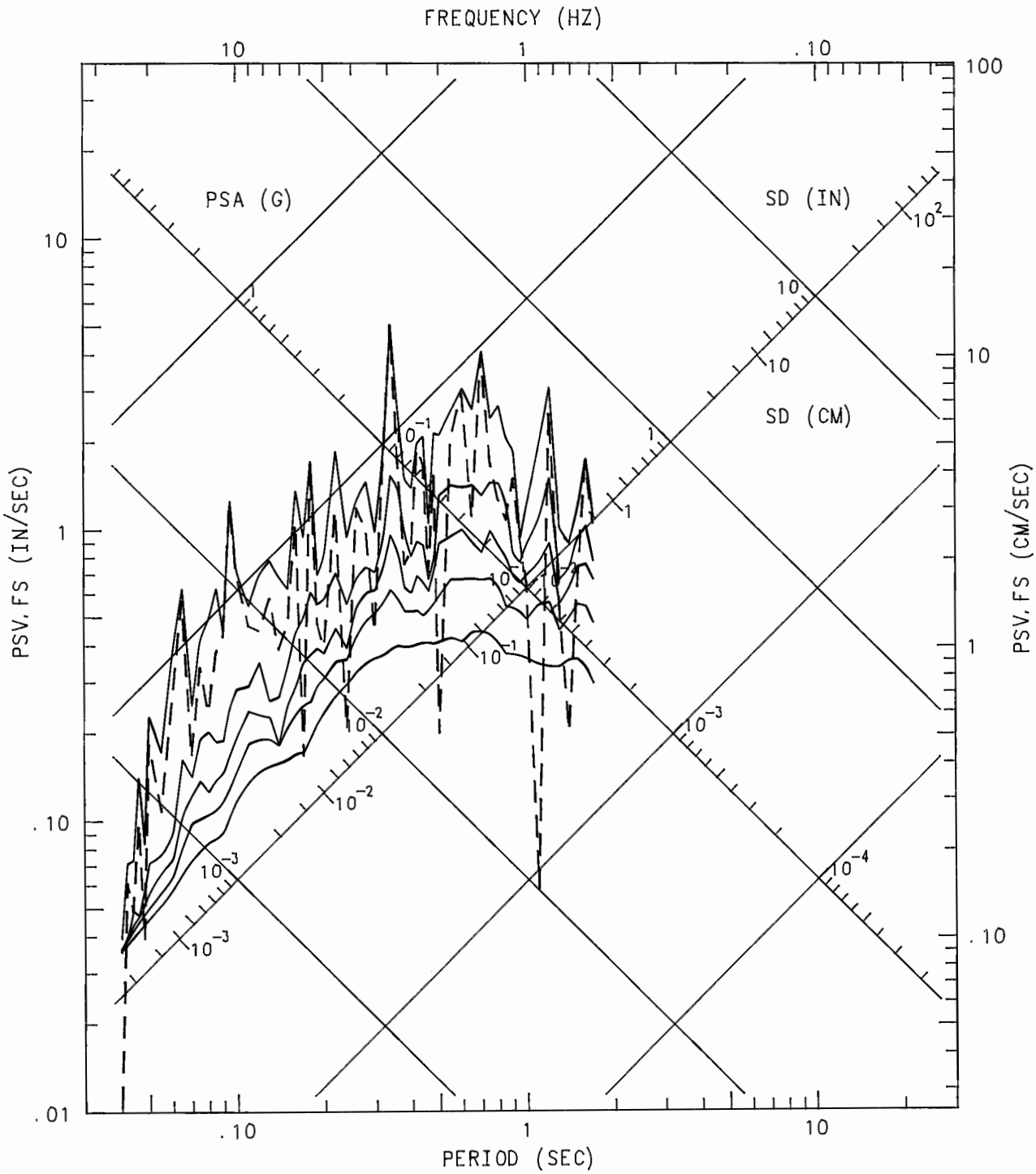
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 10: 0 DEG (BASEMENT, AT EAST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



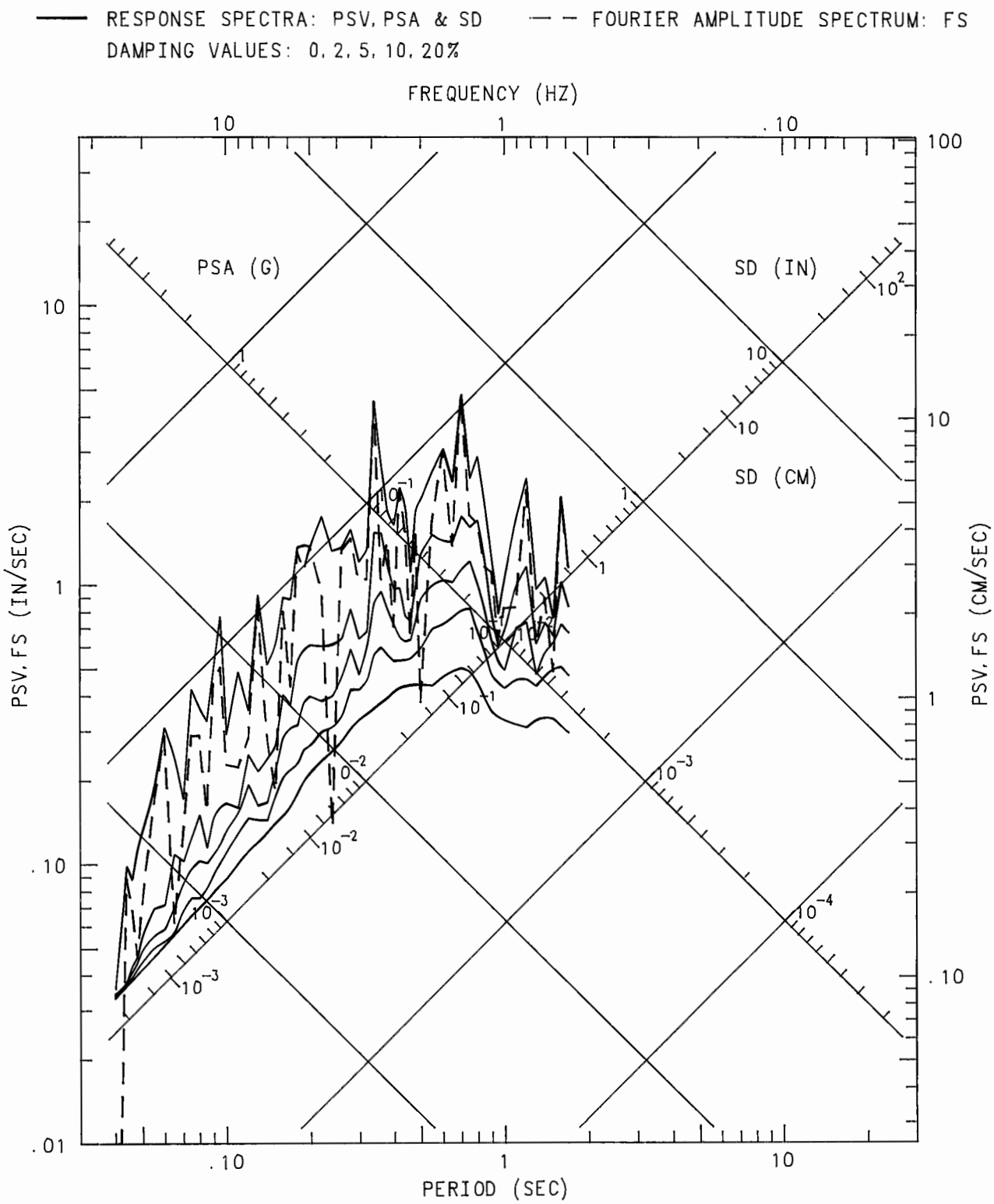
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 11: 0 DEG (FOUNDATION, AT WEST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



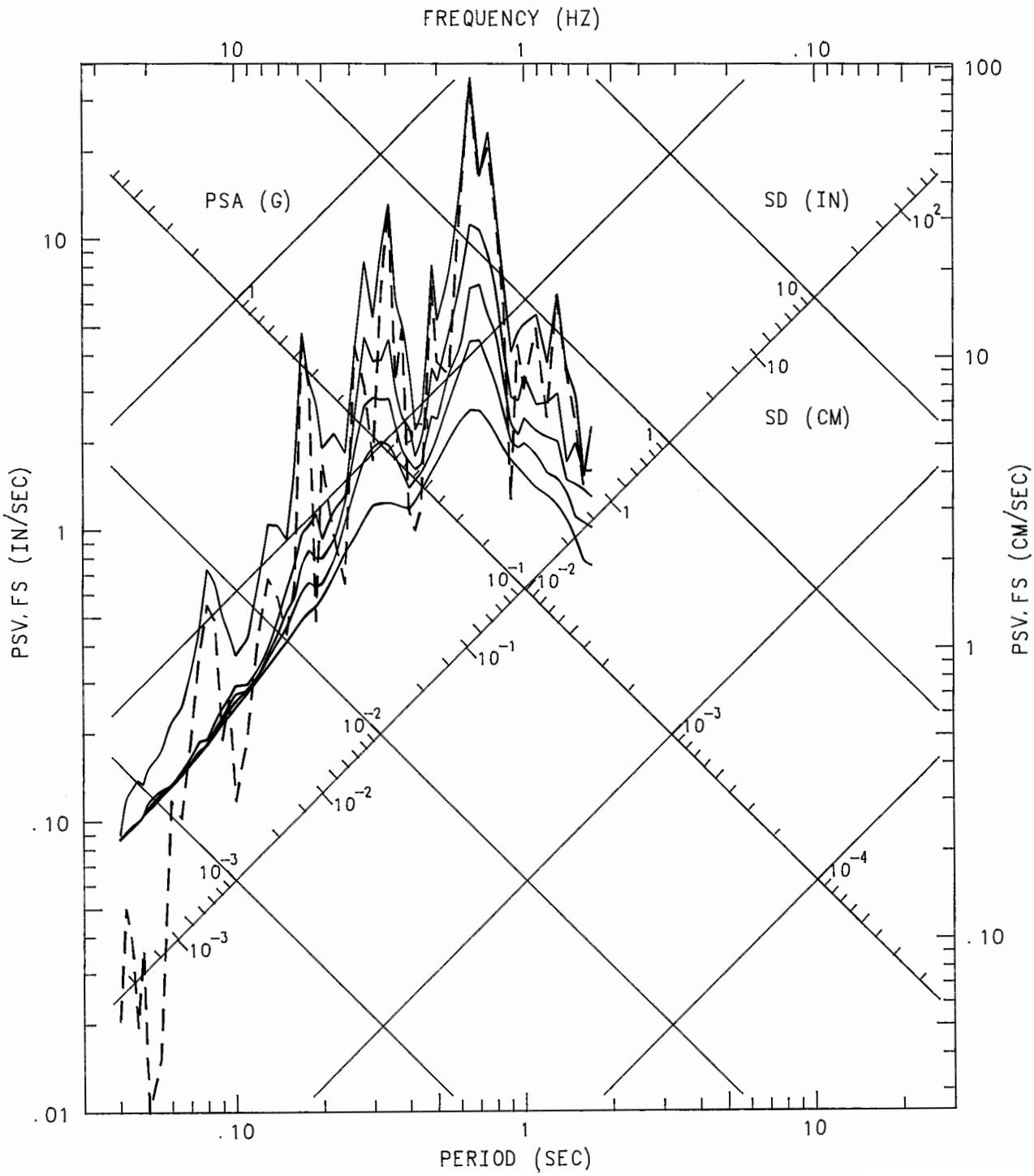
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 12: 0 DEG (FOUNDATION, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



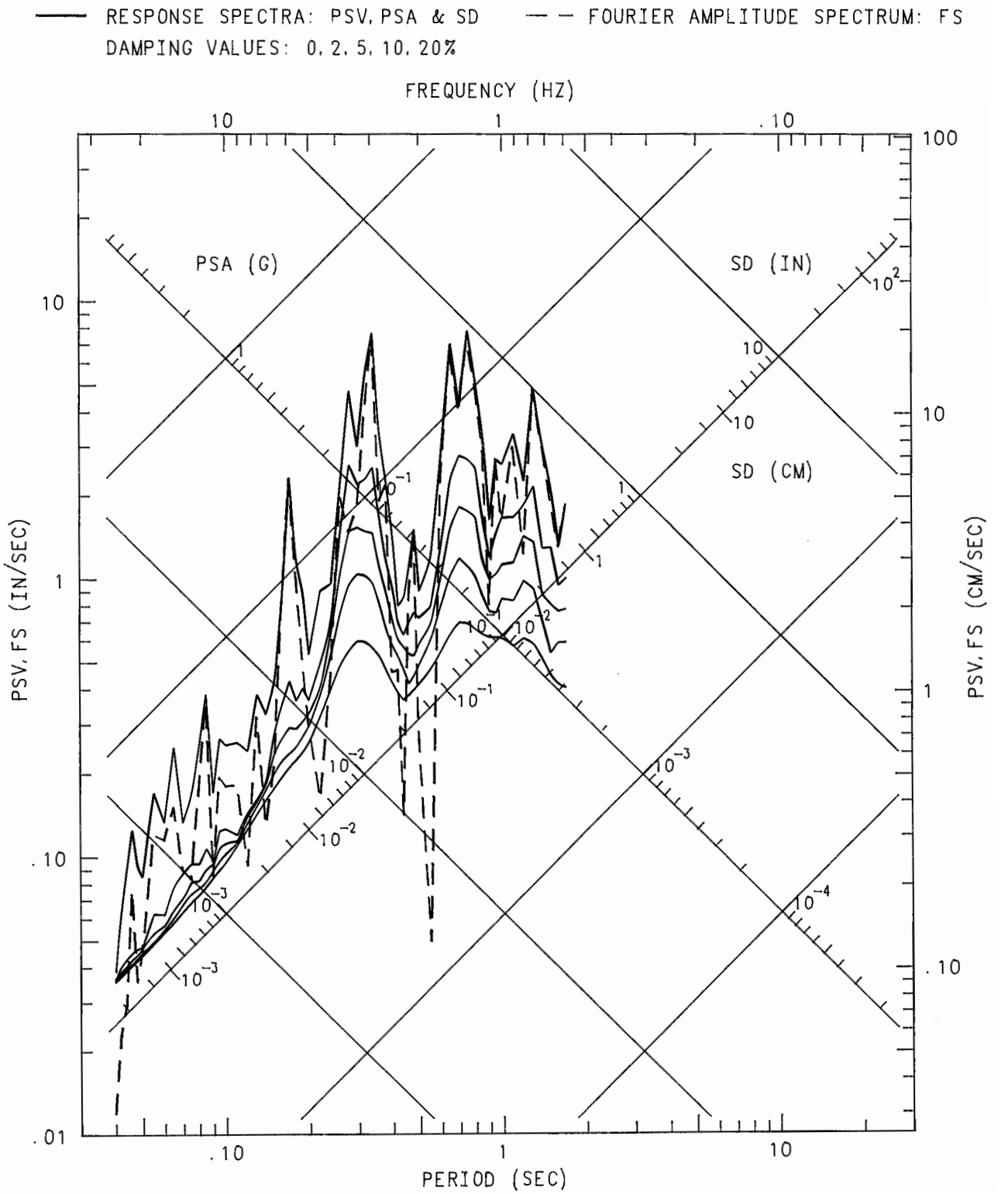
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 13: 0 DEG (FOUNDATION, AT EAST WALL)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 011287.1049-QP86A497C1



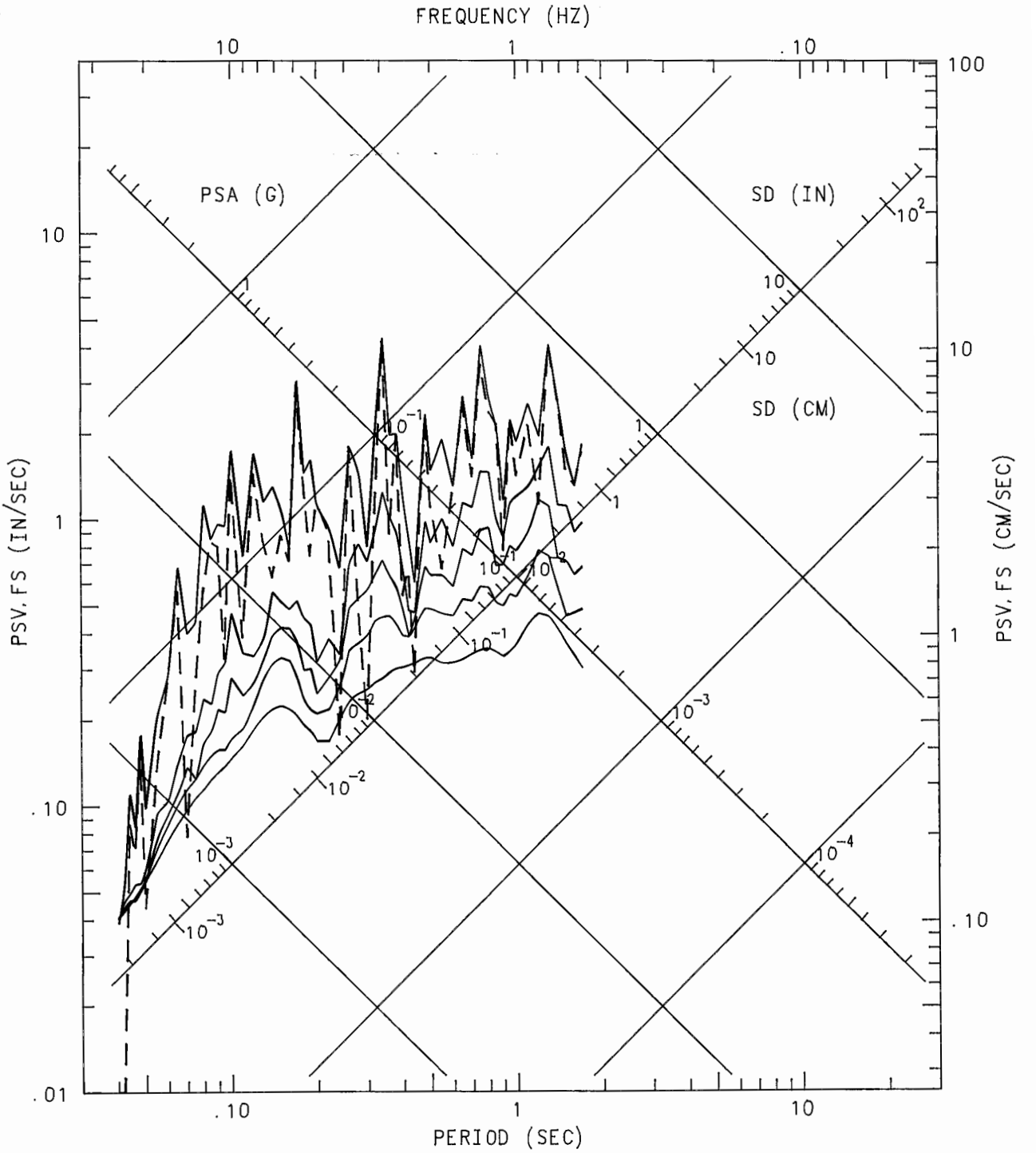
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 1 (STA CHN 14): 90 DEG (ROOF, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0118-86189.01 011487.0912-QP86A497C2



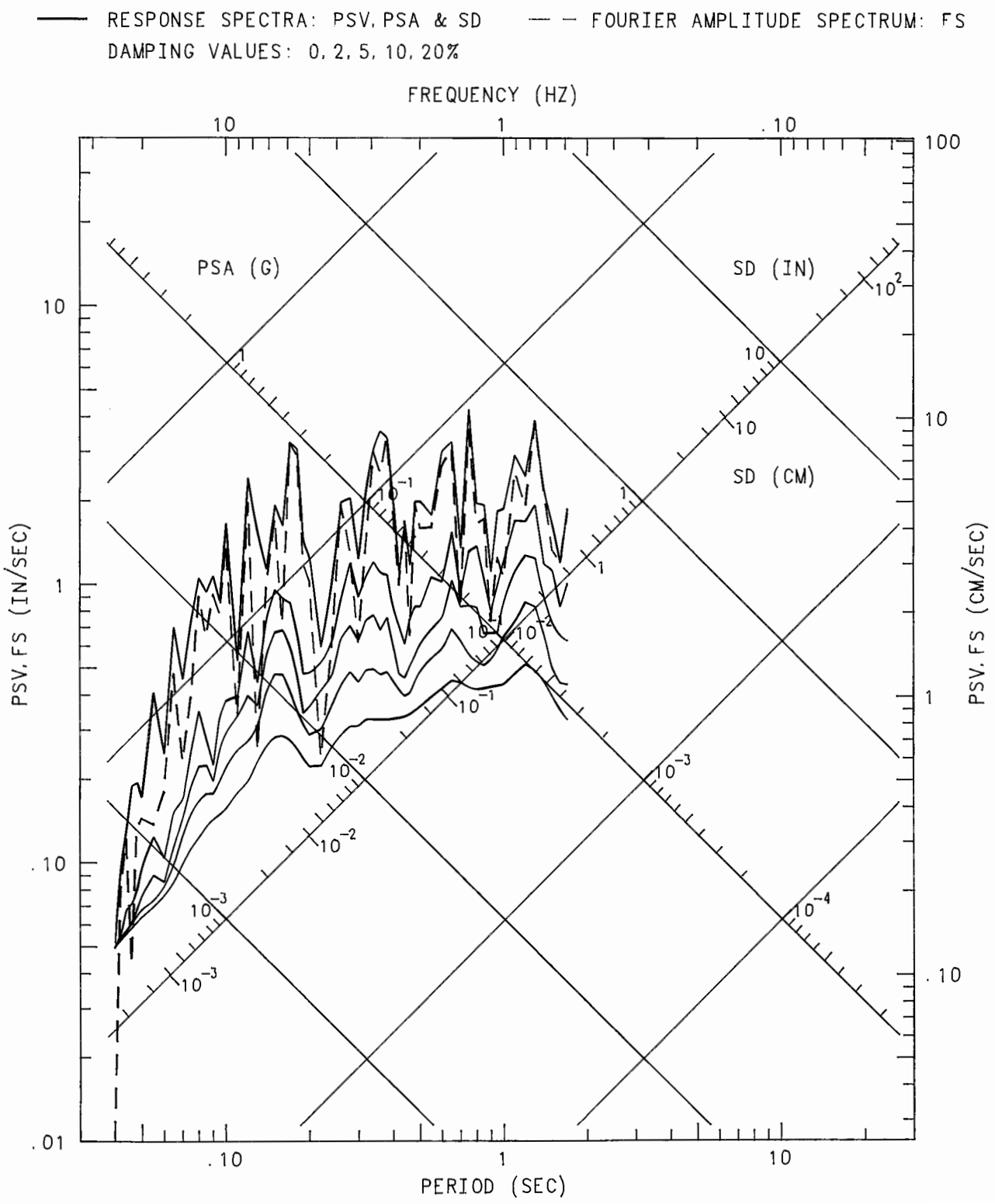
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 2 (STA CHN 15): 90 DEG (BASEMENT, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0118-86189.01 011487.0912-QP86A497C2



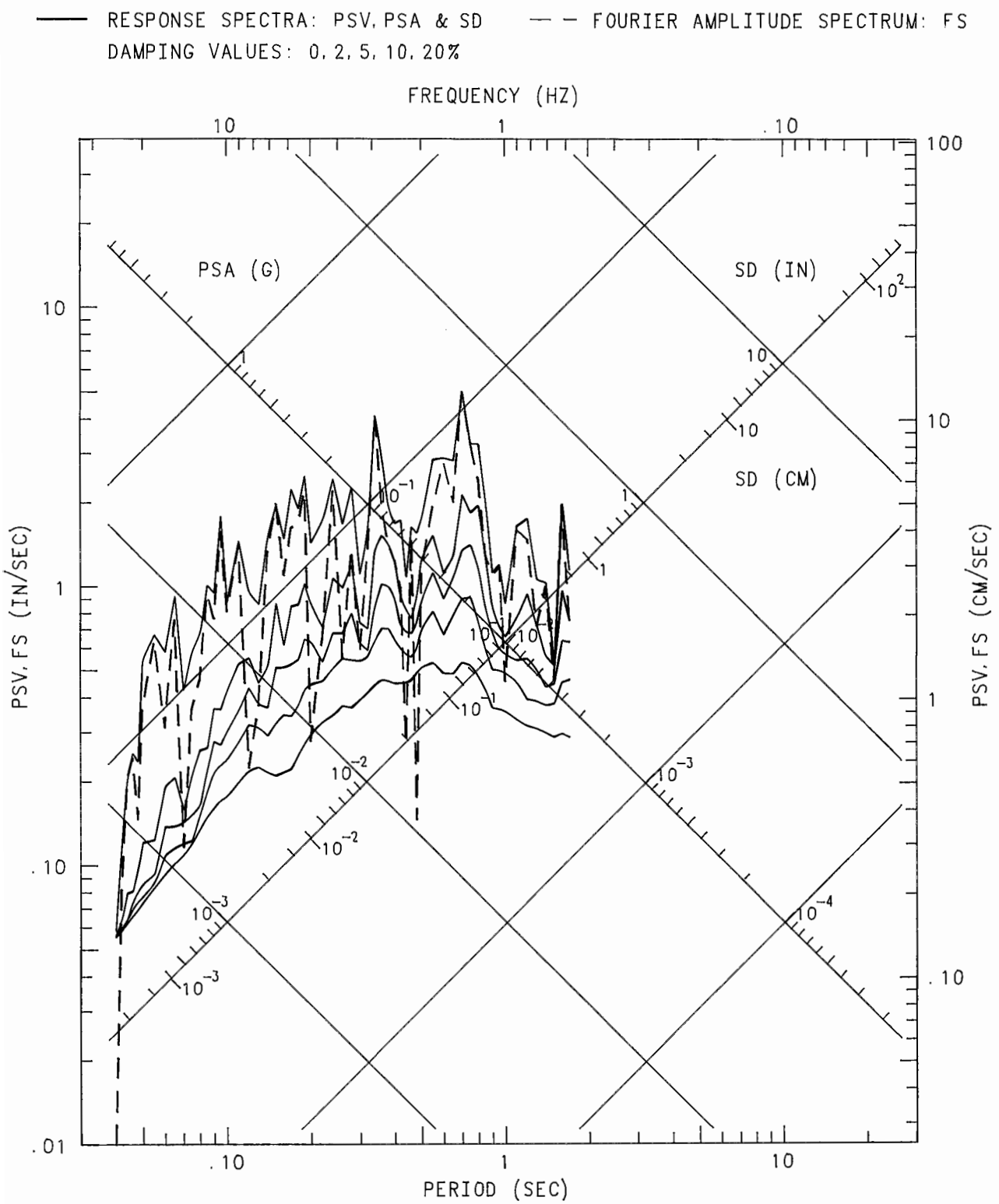
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 3 (STA CHN 16): 90 DEG (FOUNDATION, AT CENTER)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0118-86189.01 011487.0912-QP86A497C2



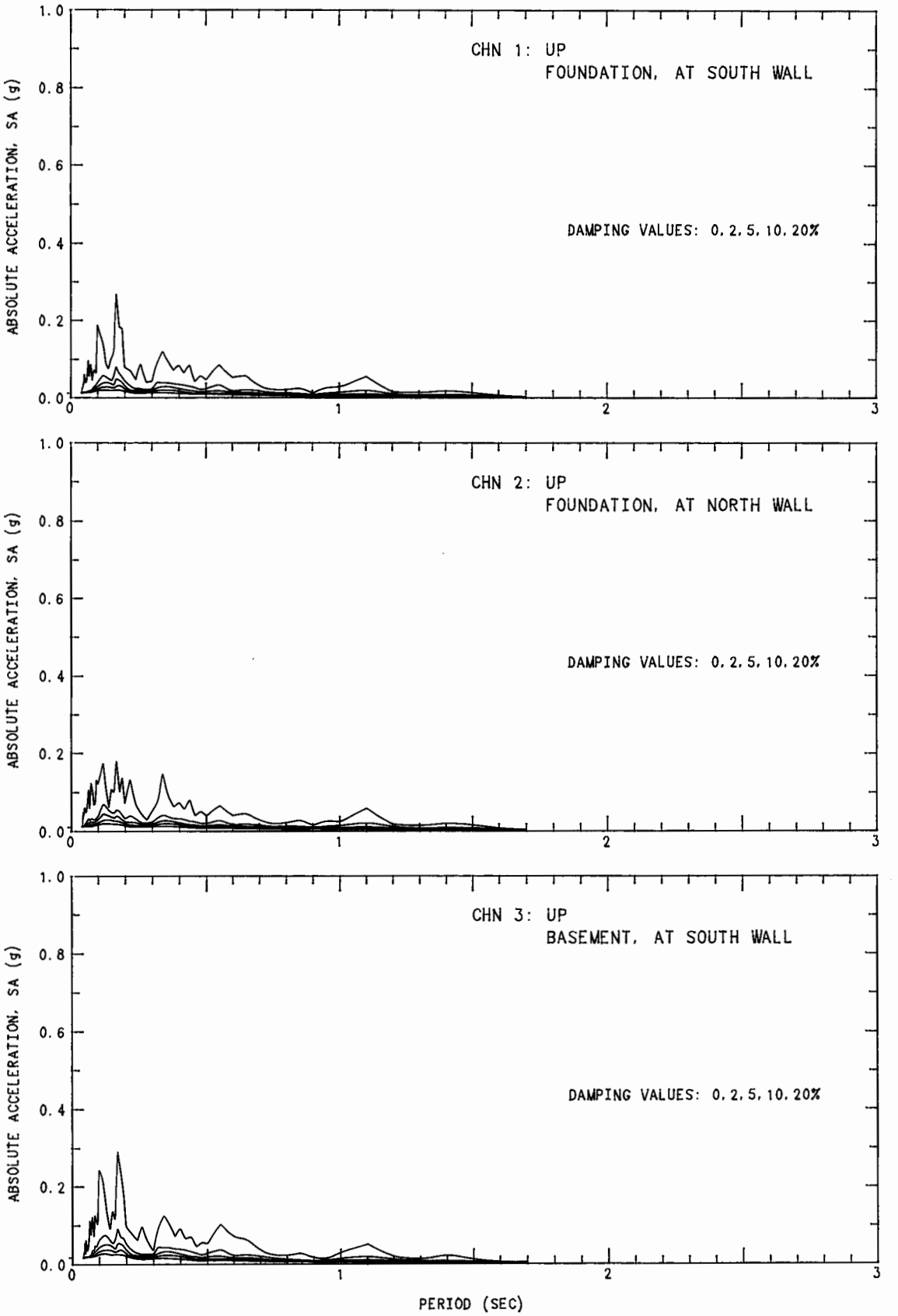
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 4 (STA CHN 17): 90 DEG (FREE FIELD)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0118-86189.01 011487.0912-QP86A497C2



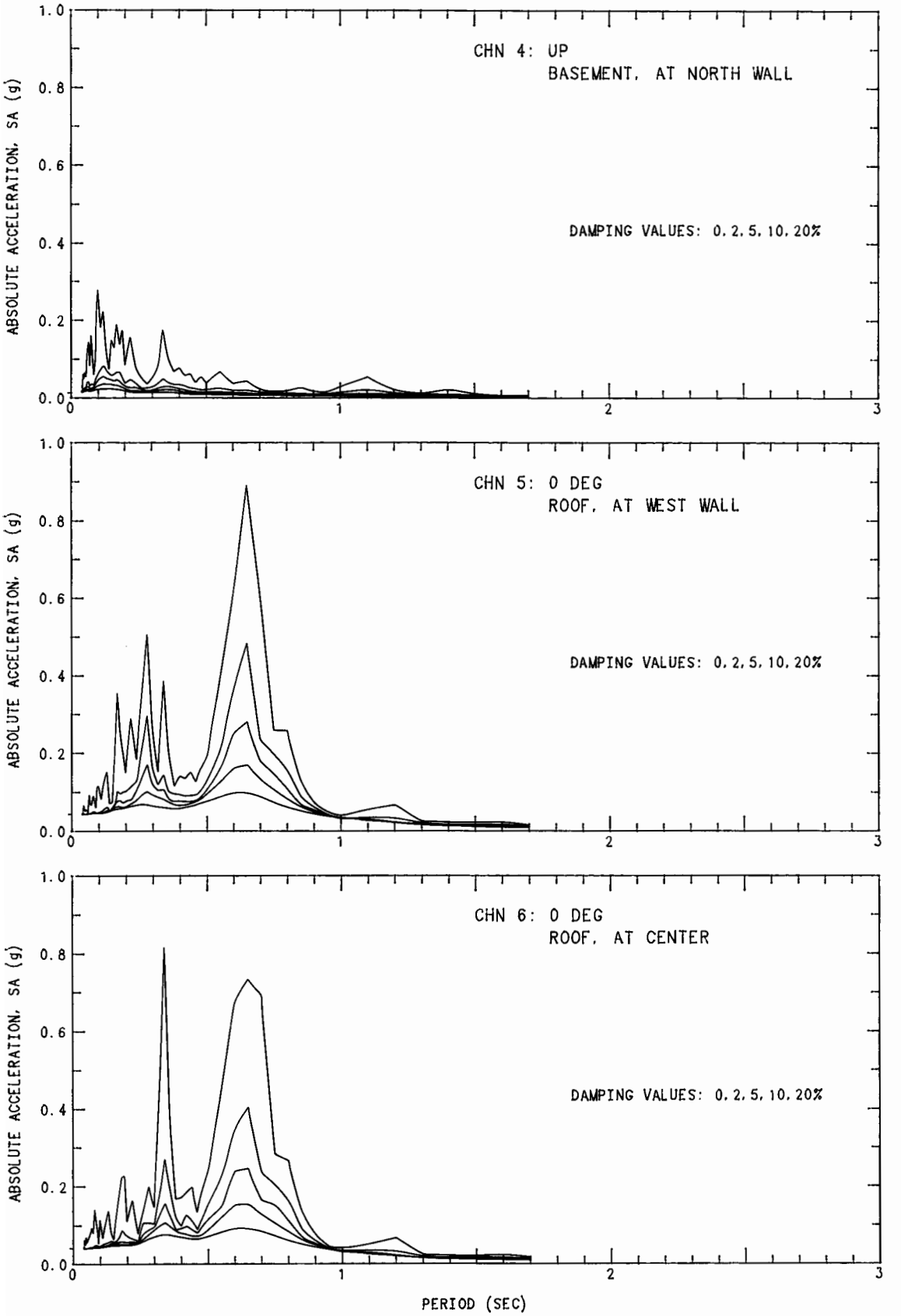
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
CHN 6 (STA CHN 19): 0 DEG (FREE FIELD)
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0118-86189.01 011487.0912-QP86A497C2



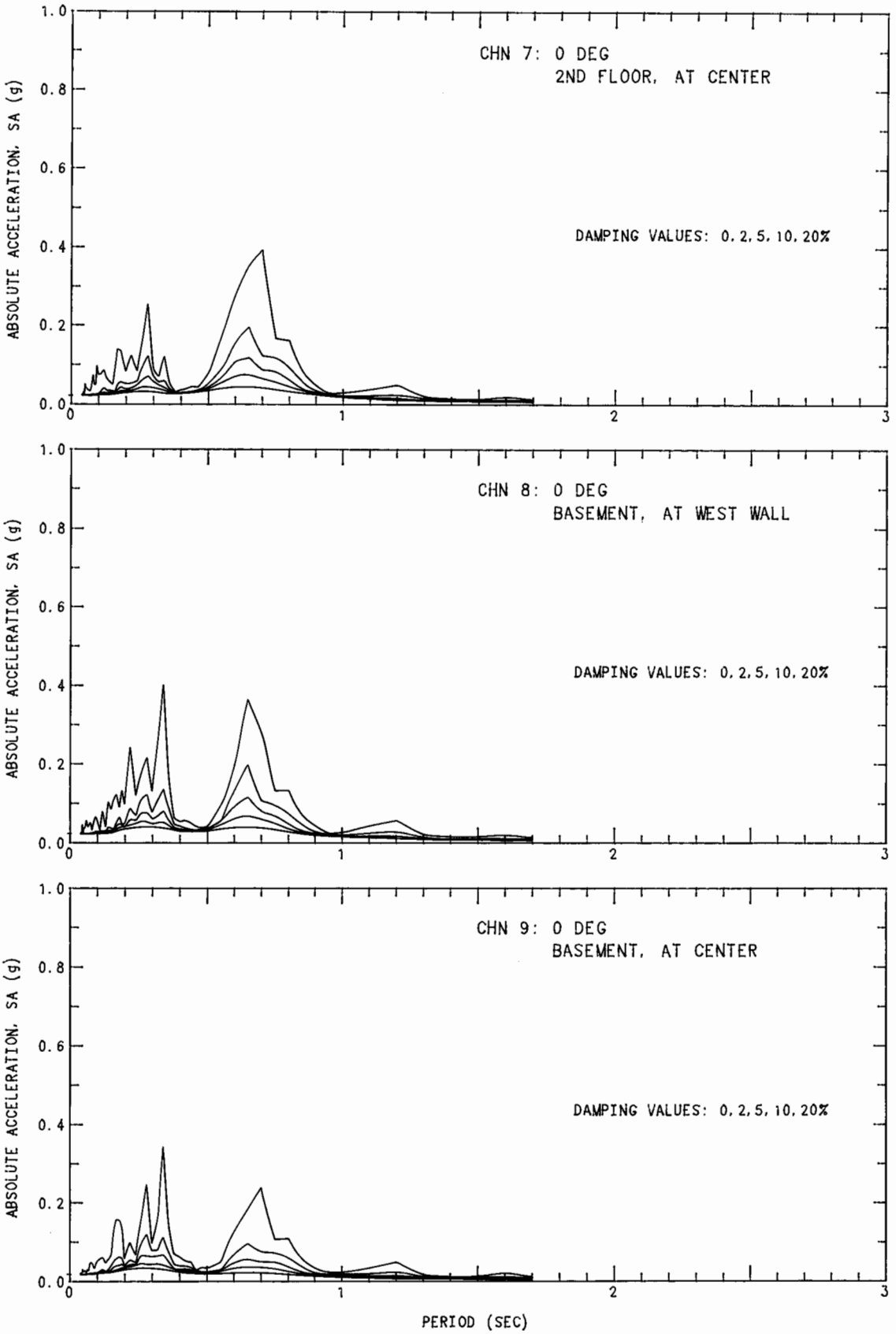
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA -- LAW & JUSTICE BLDG.
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 090487.0902-QP86A497C1



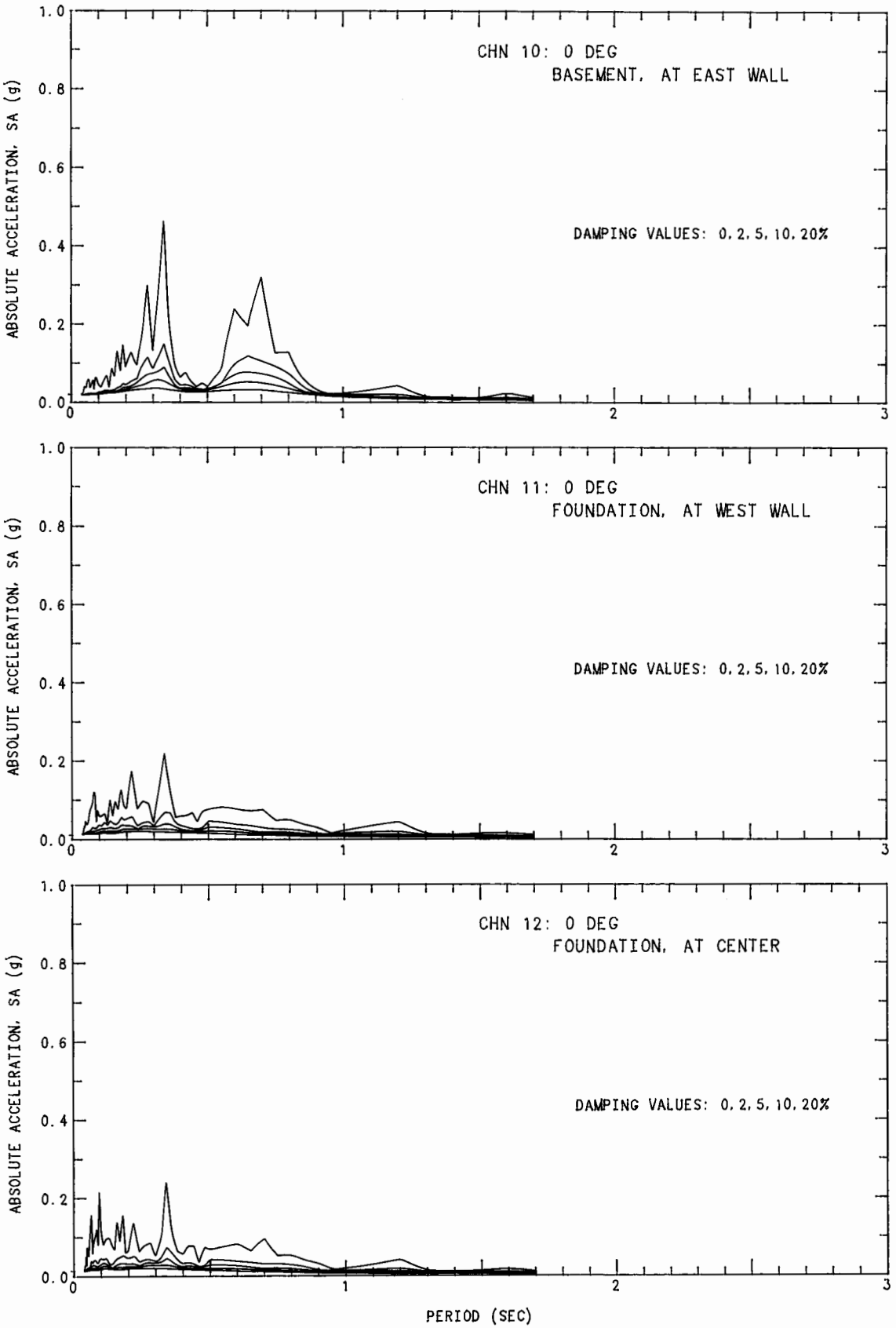
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 090487.0902-QP86A497C1



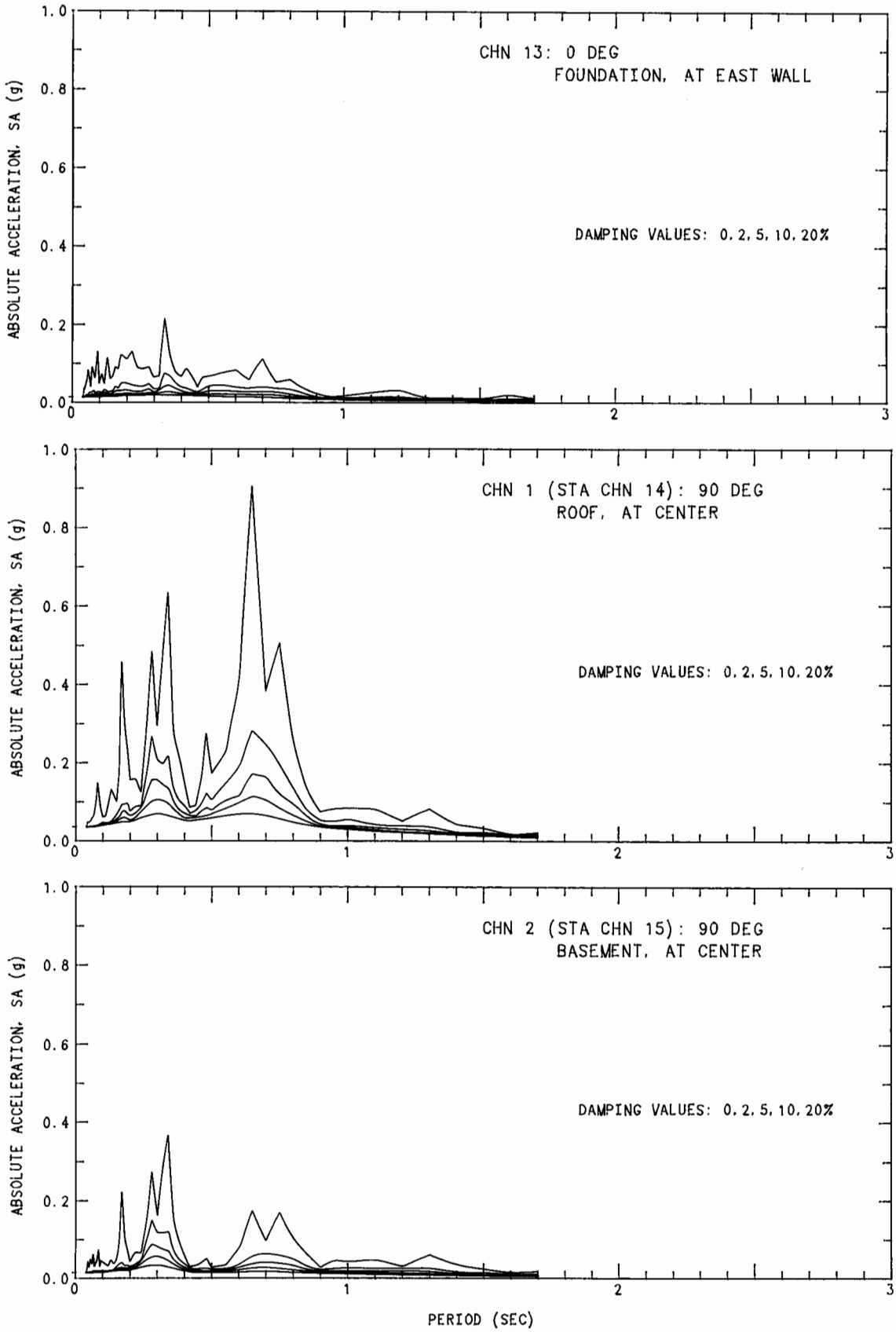
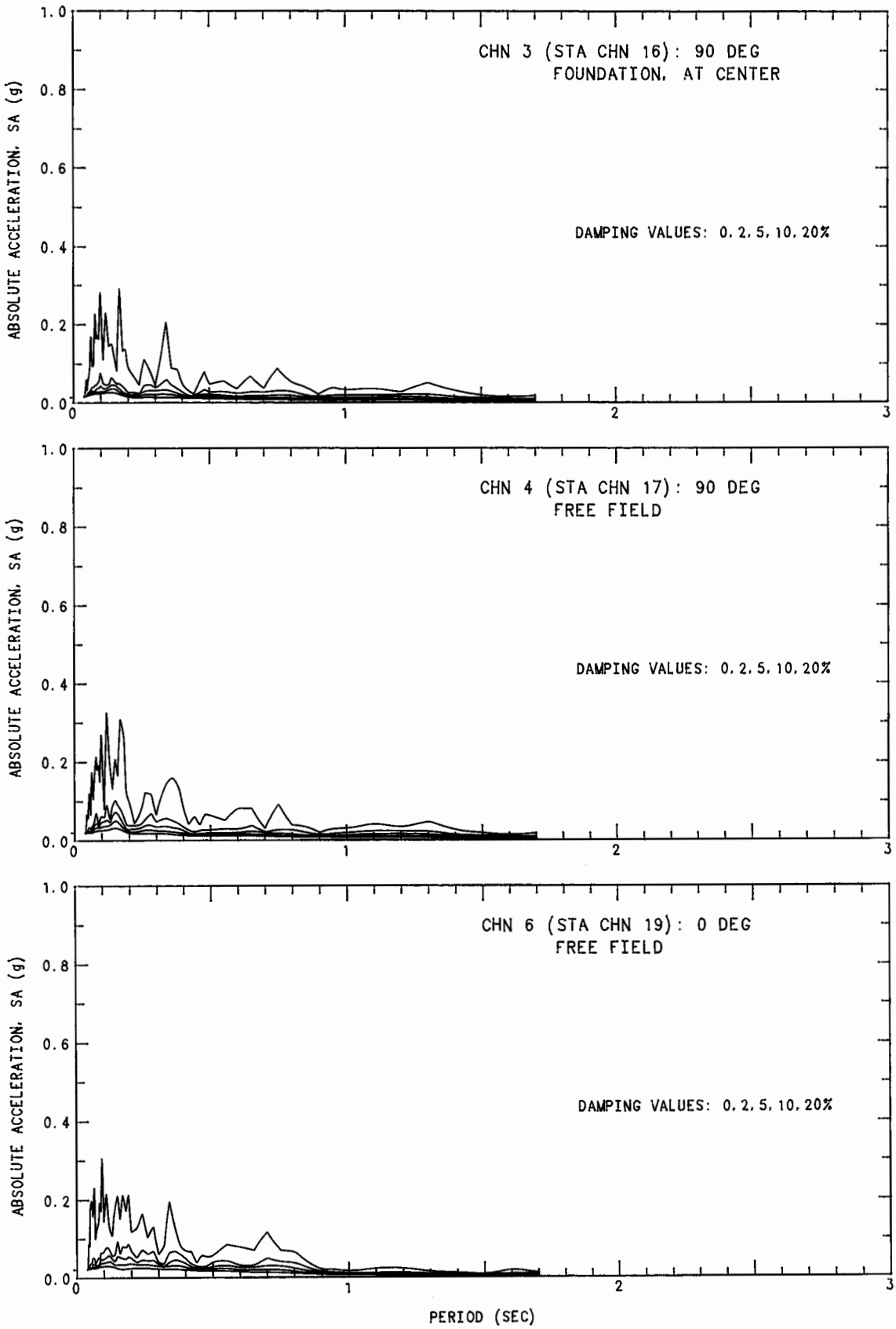
PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA -- LAW & JUSTICE BLDG.
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 090487.0902-QP86A497C1



PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 090487.0902-QP86A497C1



PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA -- LAW & JUSTICE BLDG.
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0273-86189.04 090487.0902-QP86A497C1



PALM SPRINGS EARTHQUAKE JULY 8, 1986 02:20 PDT
RANCHO CUCAMONGA - LAW & JUSTICE BLDG.
ACCELEROGRAM BANDPASS-FILTERED WITH RAMPS AT .40-.80 TO 23.0-25.0 HZ.
23497-C0118-86189.01 090887.0903-QP86A497C2